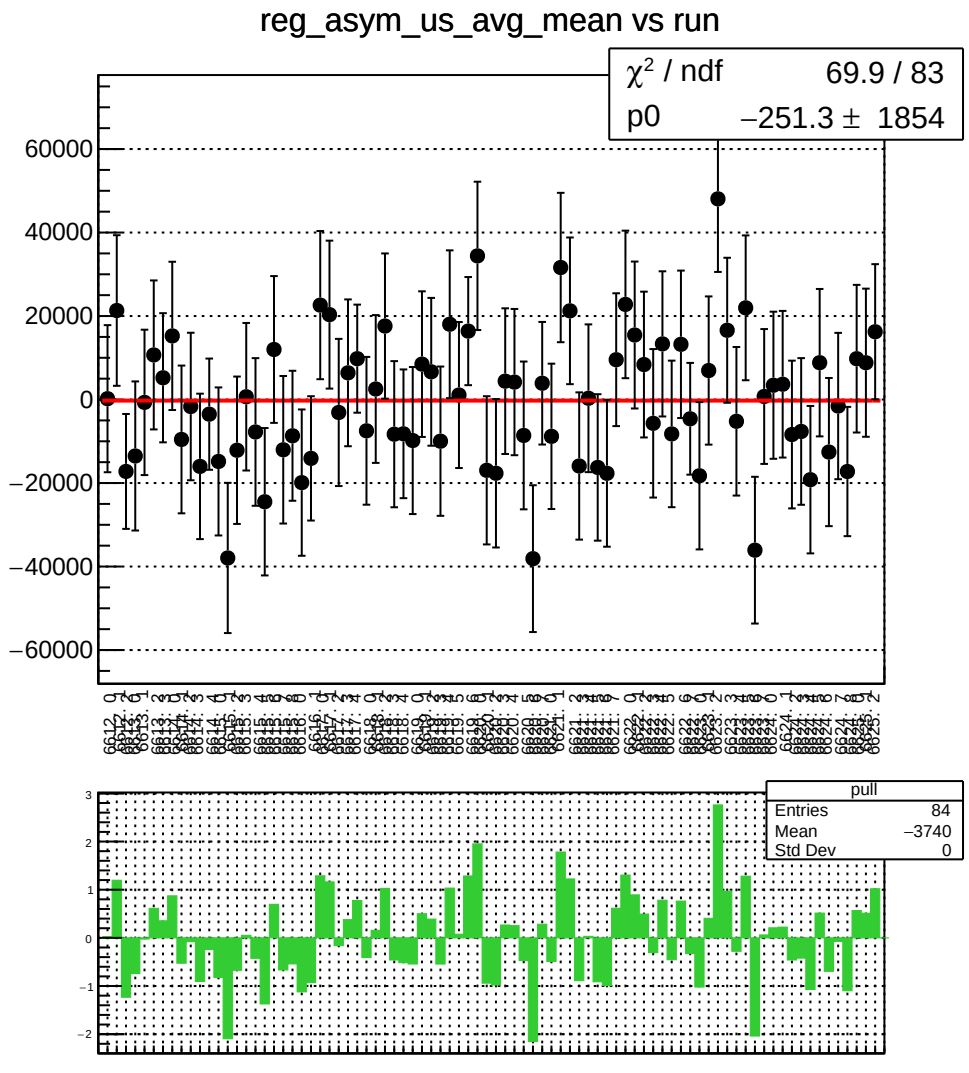
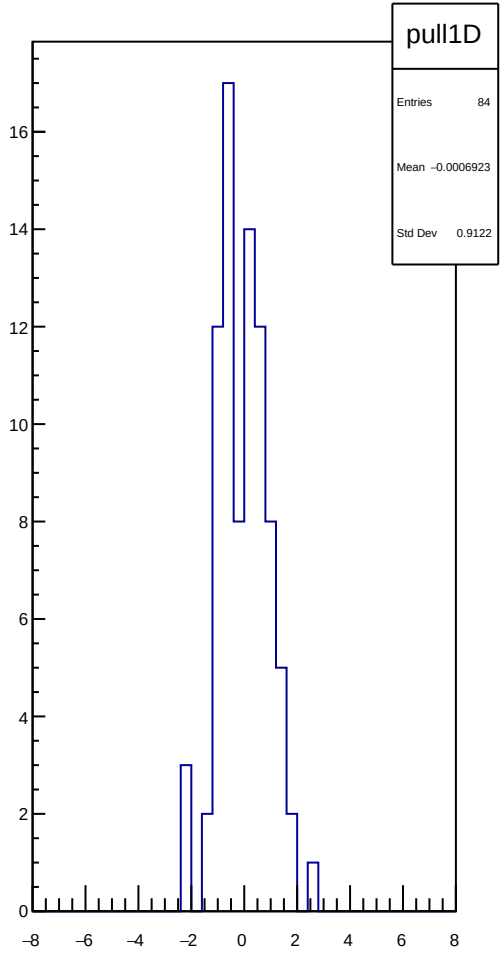
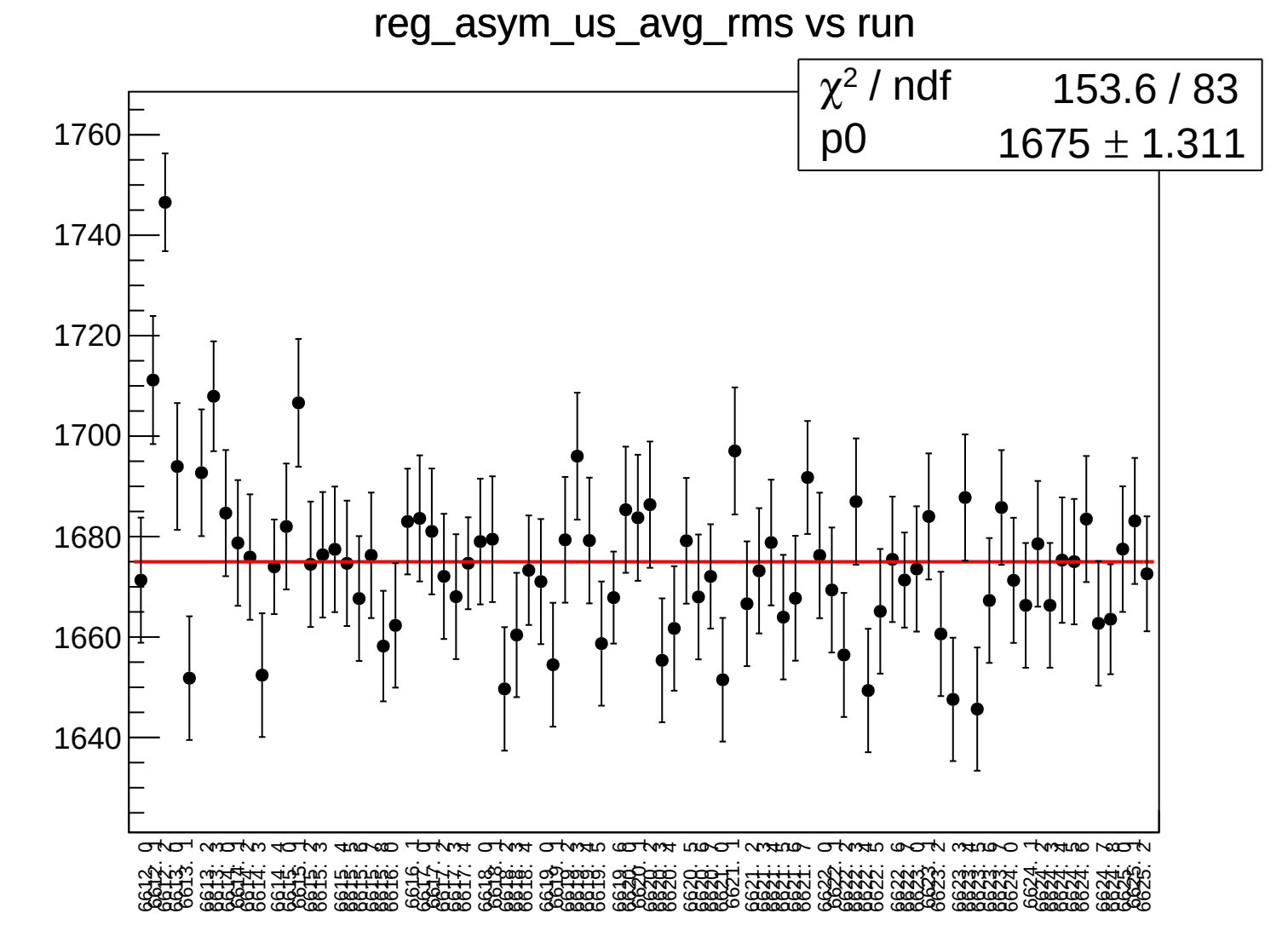
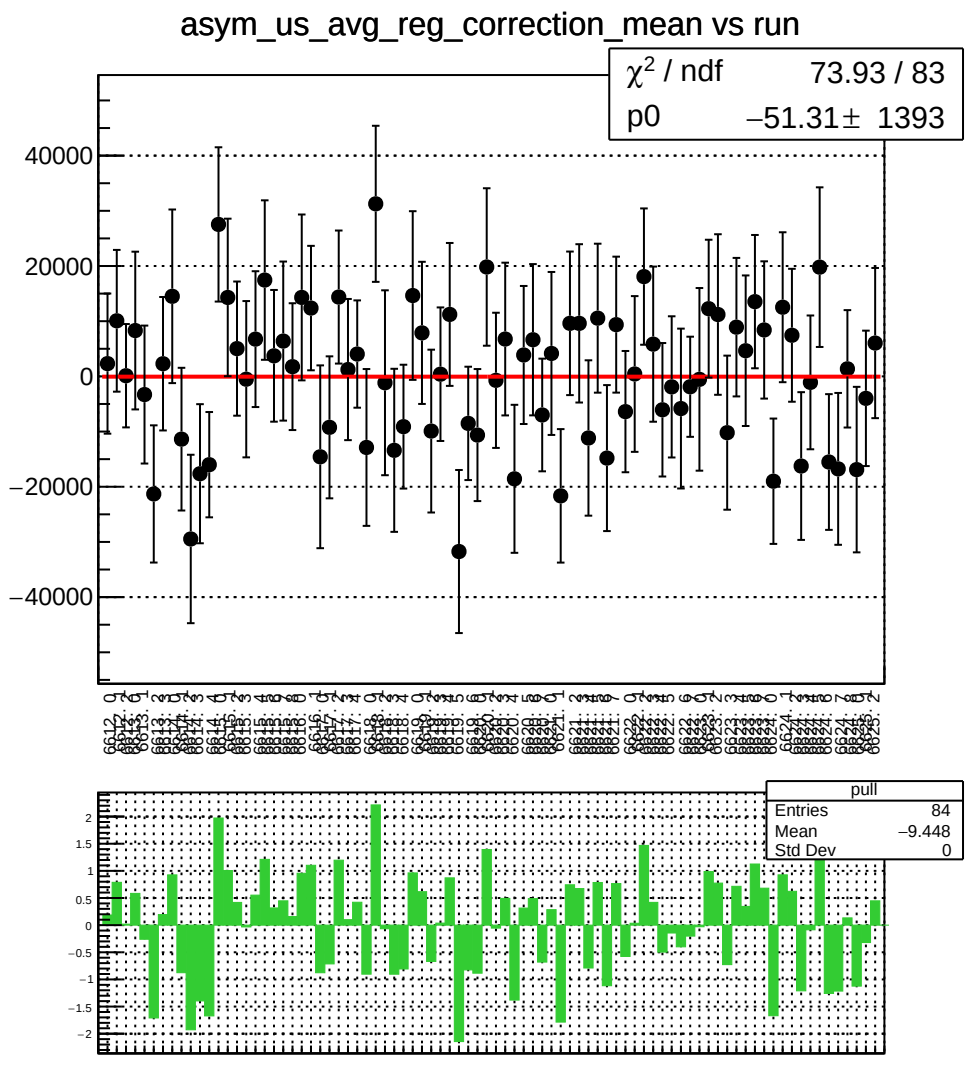
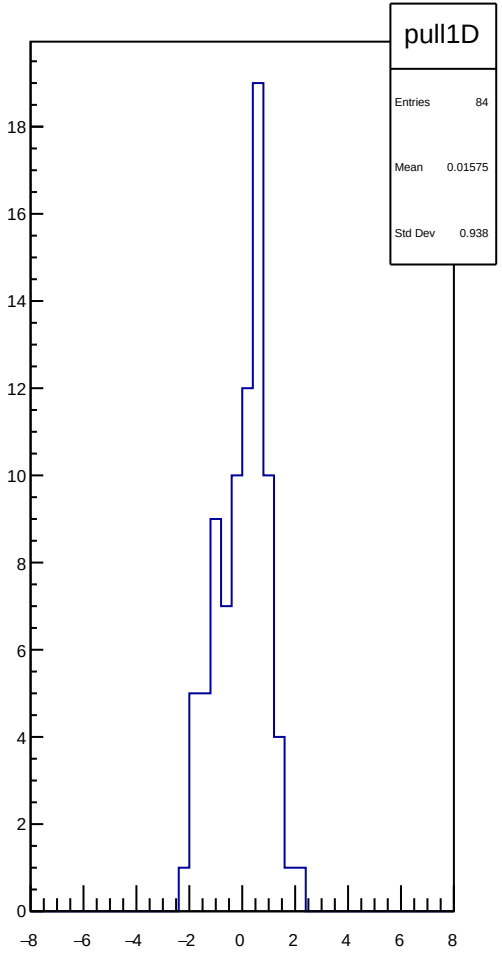
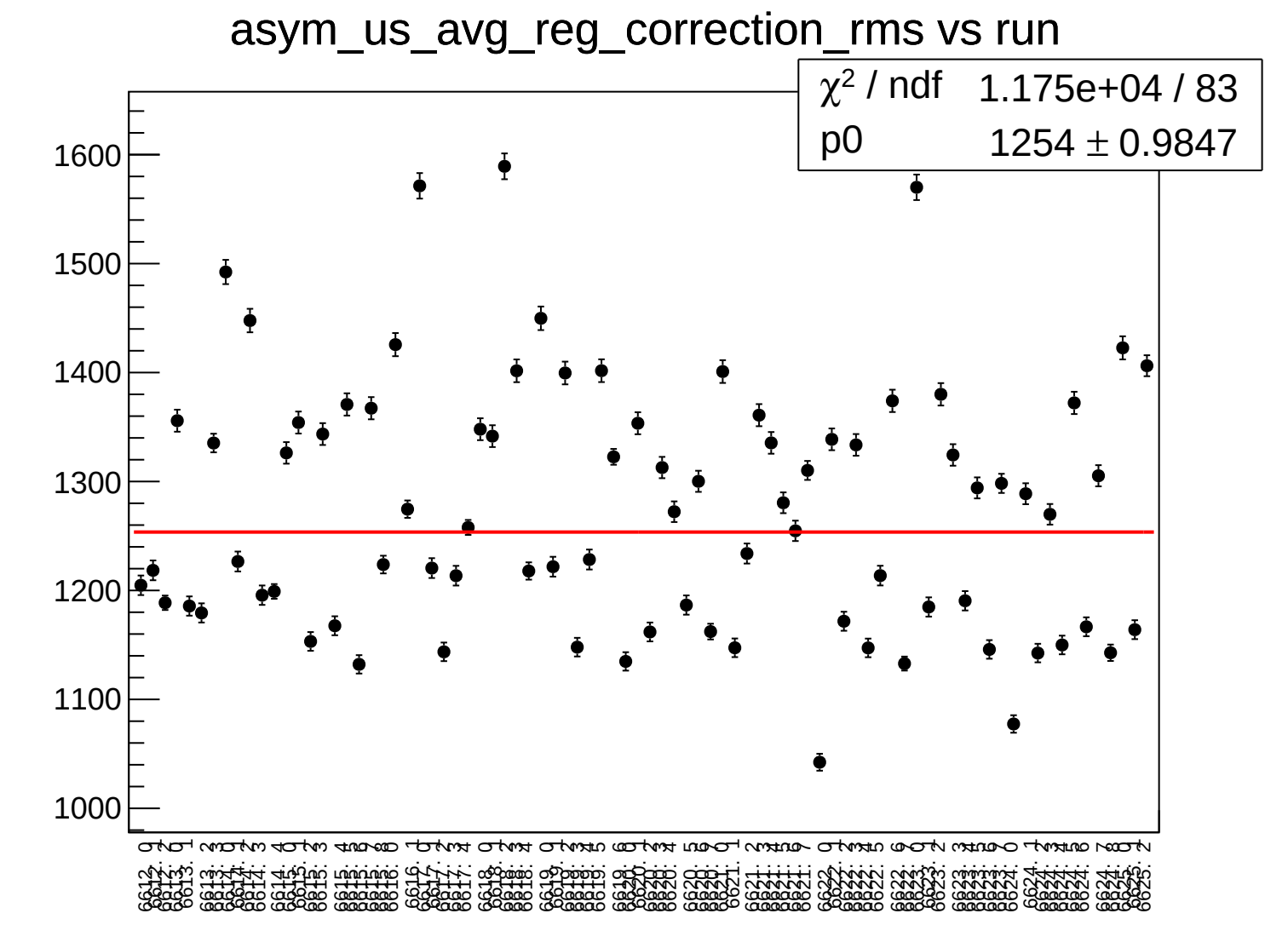

reg_asym_us_avg_mean vs run
χ² / ndf 69.9 / 83
p0 −251.3 ± 1854
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −3740
Std Dev 0
3
2
1
0
−1
−2

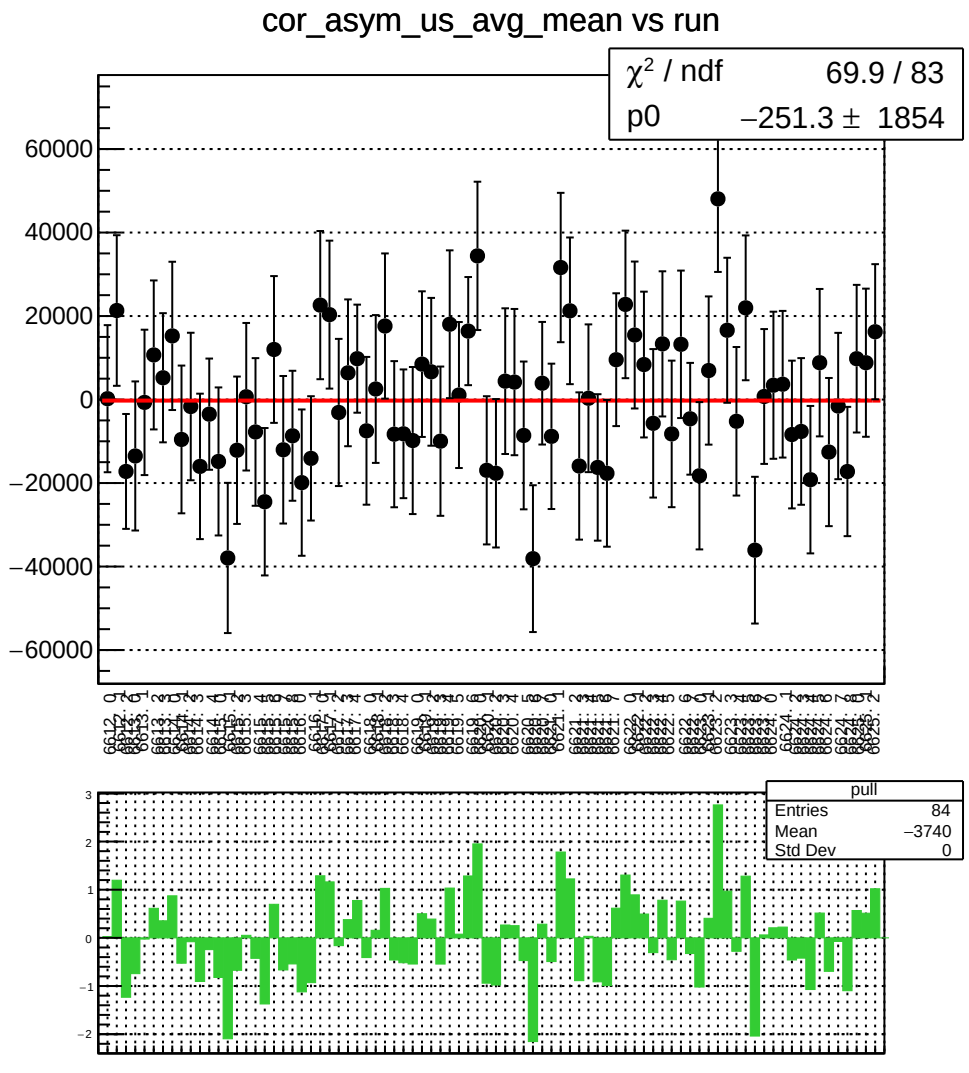

pull1D
Entries 84
Mean −0.0006923
Std Dev 0.9122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

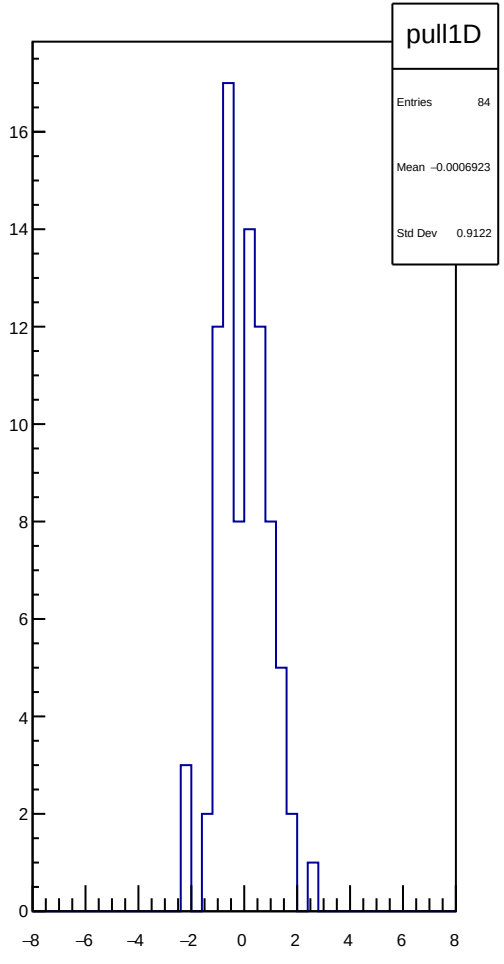

reg_asym_us_avg_rms vs run
χ² / ndf 153.6 / 83
p0 1675 ± 1.311
1760
1740
1720
1700
1680
1660
1640

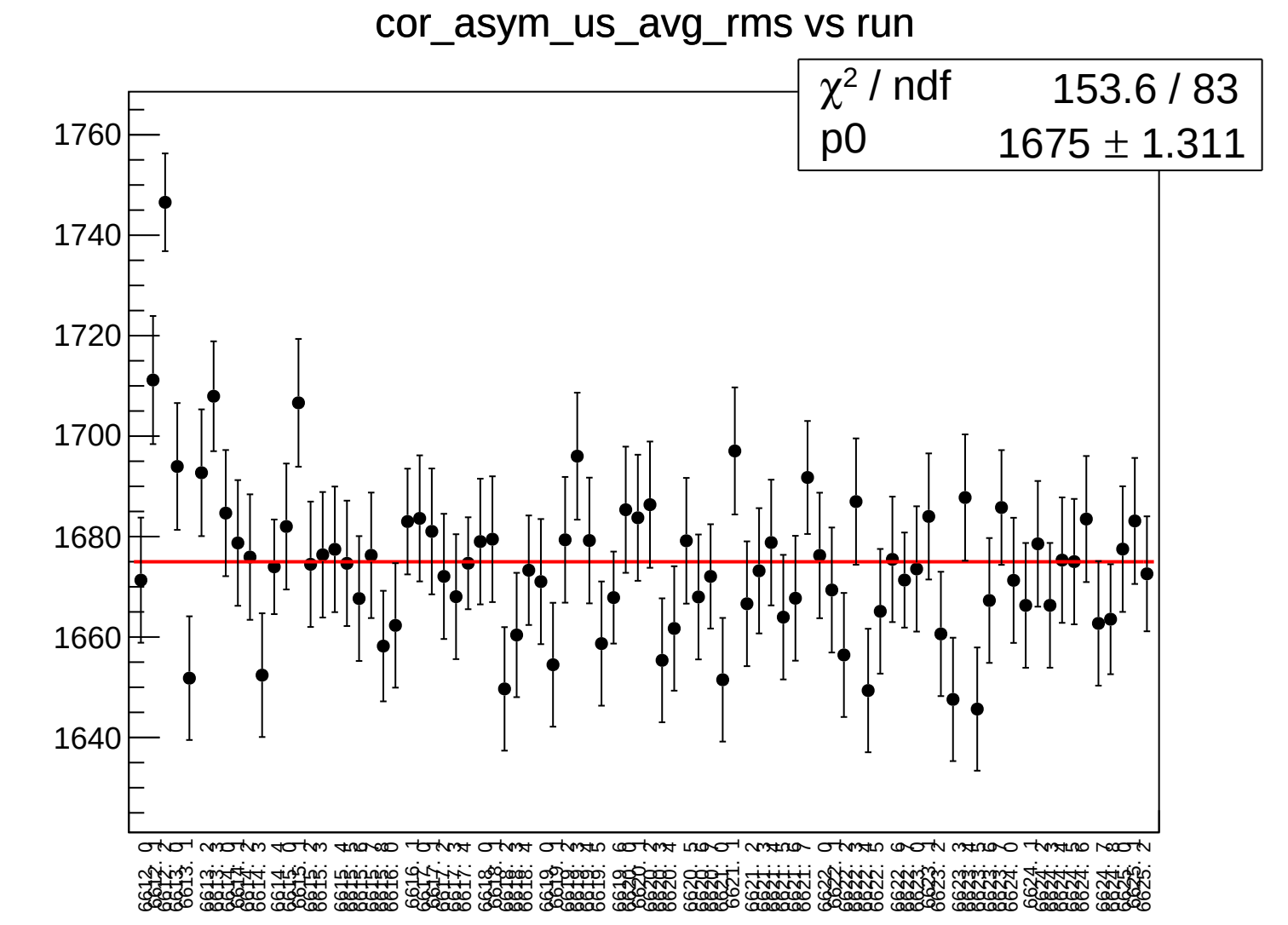

asym_us_avg_reg_correction_mean vs run
χ² / ndf 73.93 / 83
p0 −51.31± 1393
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −9.448
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

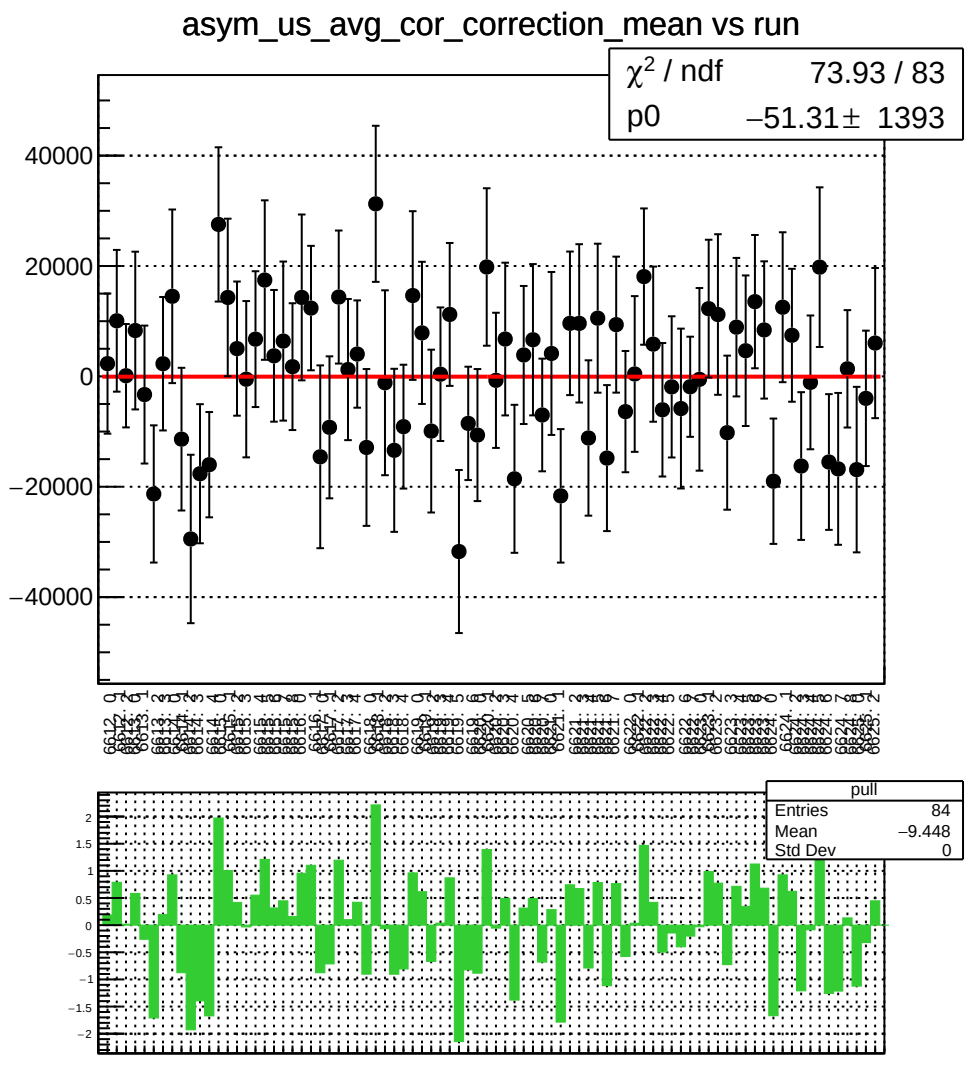

pull1D
Entries 84
Mean 0.01575
Std Dev 0.938
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

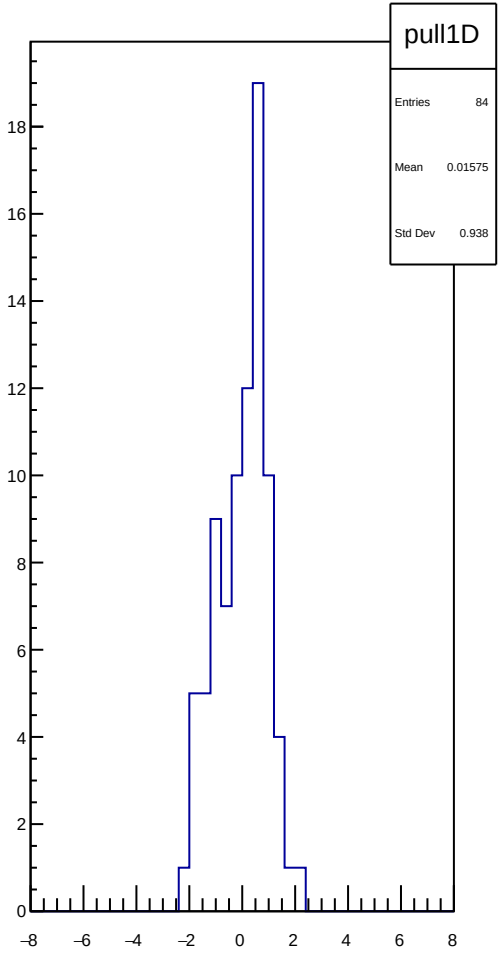

asym_us_avg_reg_correction_rms vs run
χ² / ndf 1.175e+04 / 83
p0 1254 ± 0.9847
1600
1500
1400
1300
1200
1100
1000

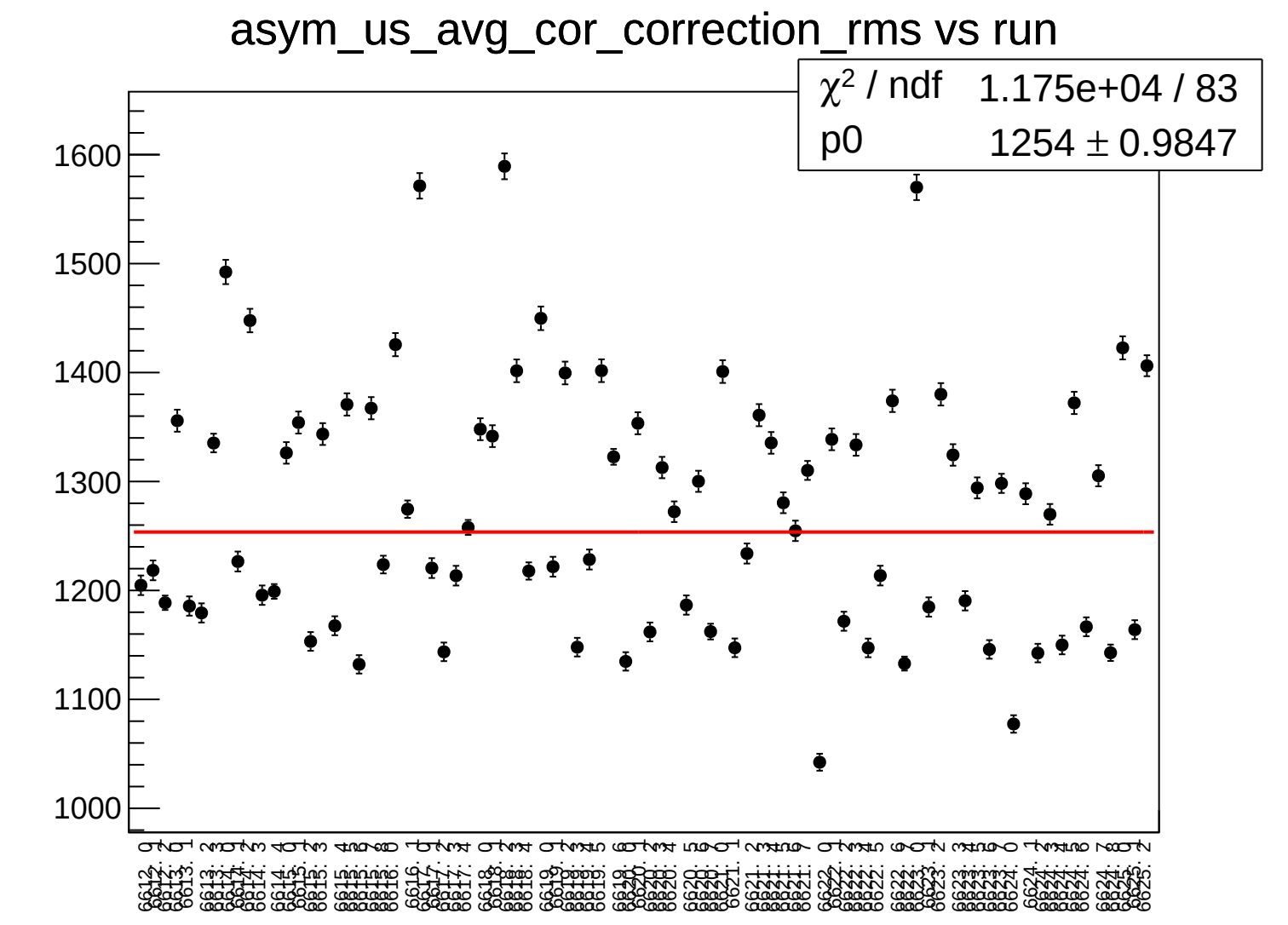

cor_asym_us_avg_mean vs run
χ² / ndf 69.9 / 83
p0 −251.3 ± 1854
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −3740
Std Dev 0
3
2
1
0
−1
−2

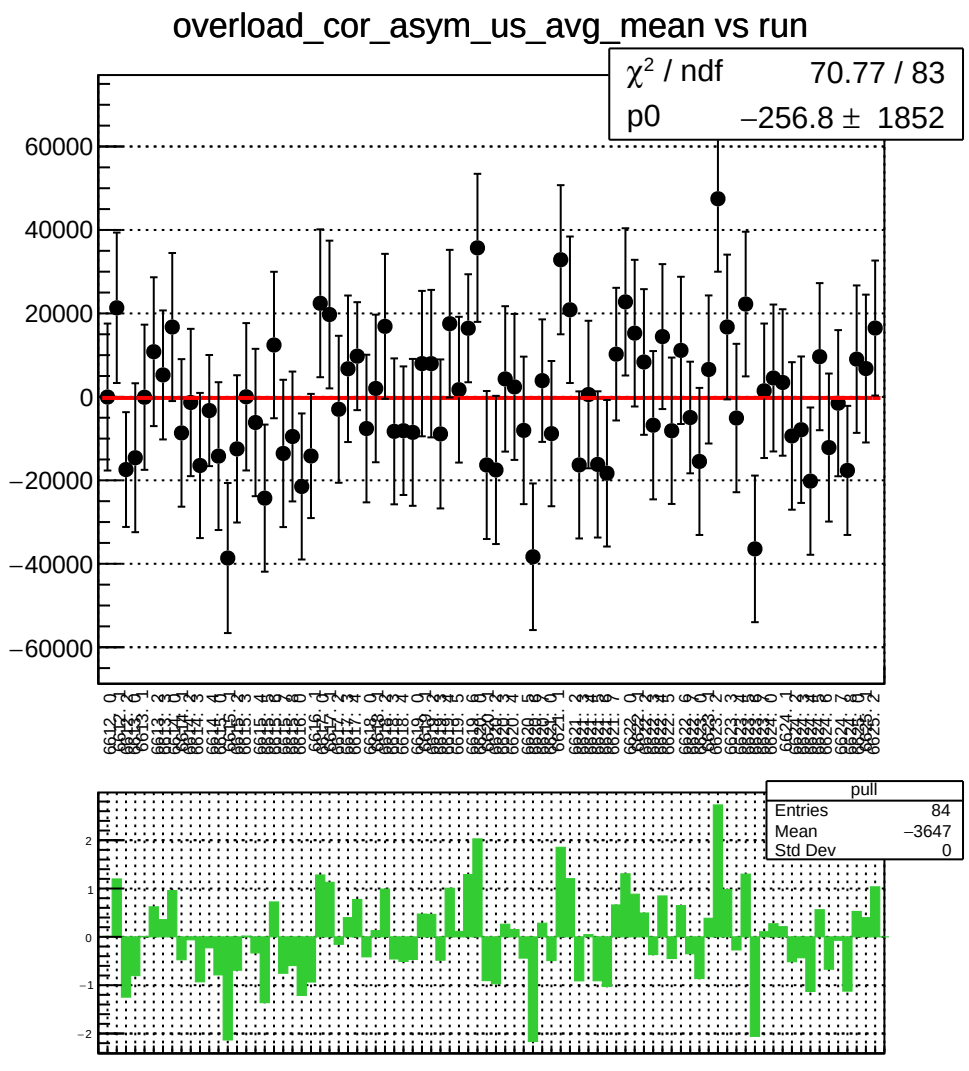

pull1D
Entries 84
Mean −0.0006923
Std Dev 0.9122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

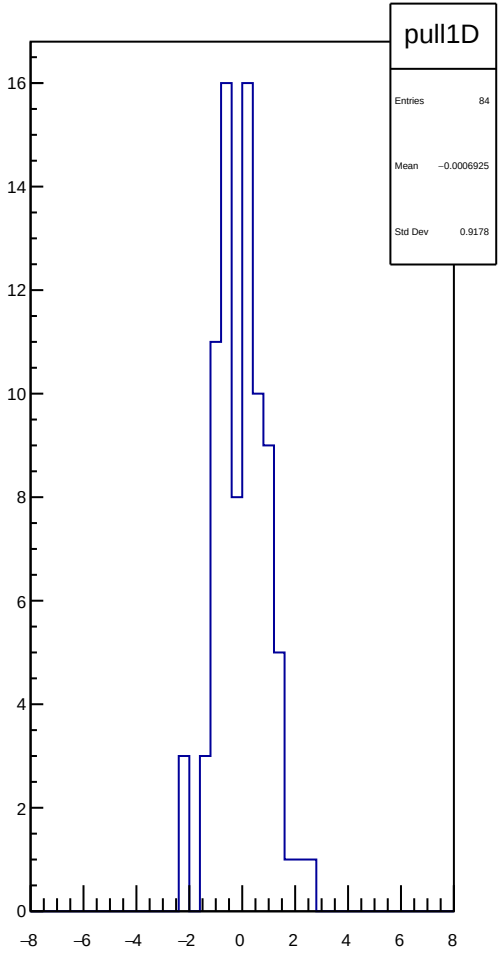

cor_asym_us_avg_rms vs run
χ² / ndf 153.6 / 83
p0 1675 ± 1.311
1760
1740
1720
1700
1680
1660
1640

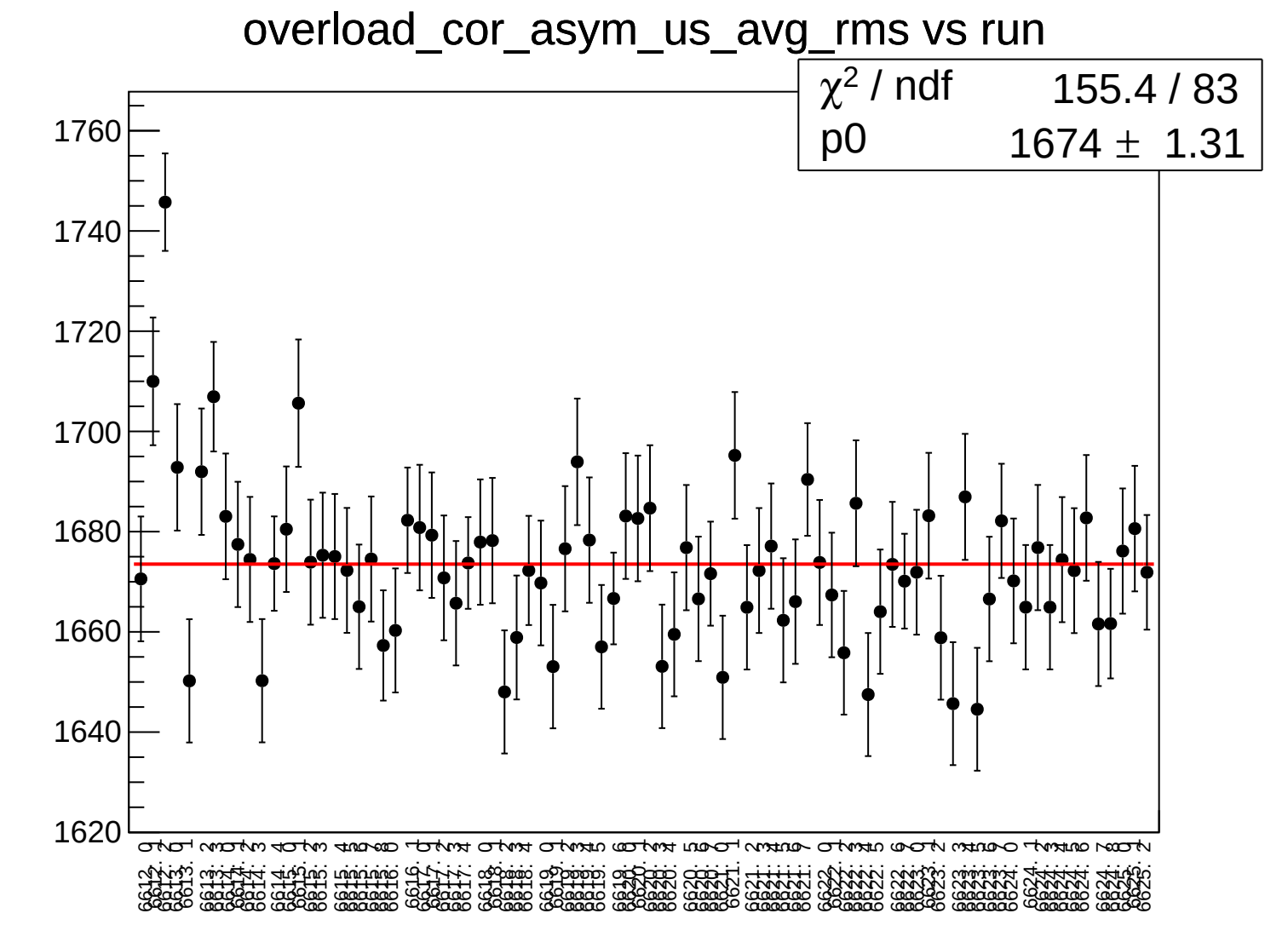

asym_us_avg_cor_correction_mean vs run
χ² / ndf 73.93 / 83
p0 −51.31± 1393
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −9.448
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

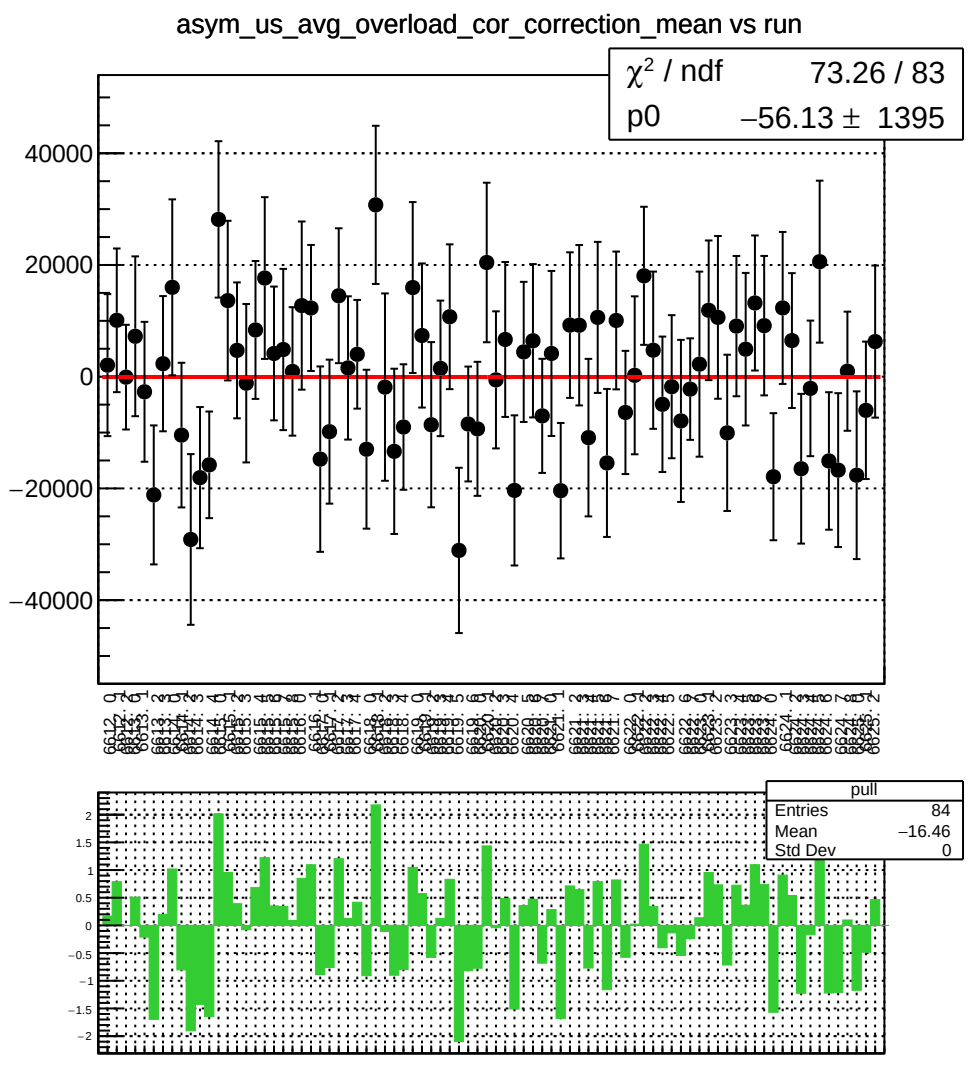

pull1D
Entries 84
Mean 0.01575
Std Dev 0.938
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

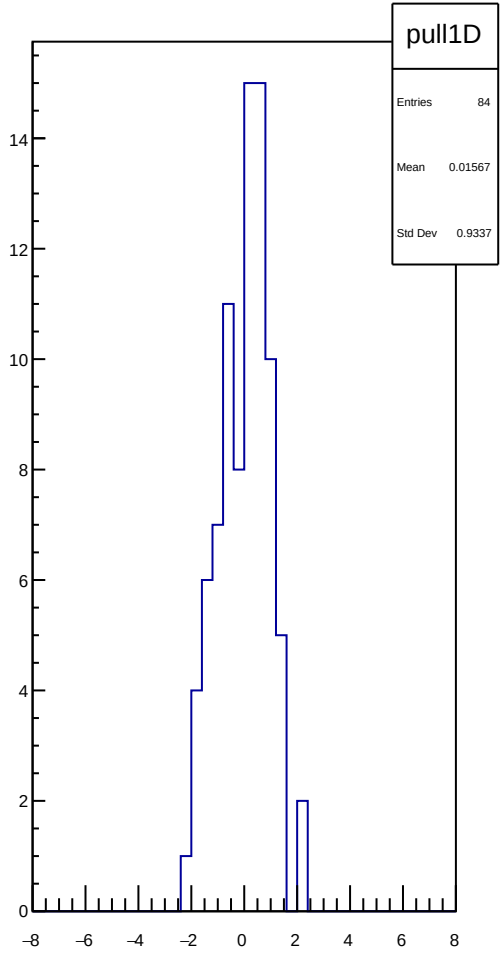

asym_us_avg_cor_correction_rms vs run
χ² / ndf 1.175e+04 / 83
p0 1254 ± 0.9847
1600
1500
1400
1300
1200
1100
1000

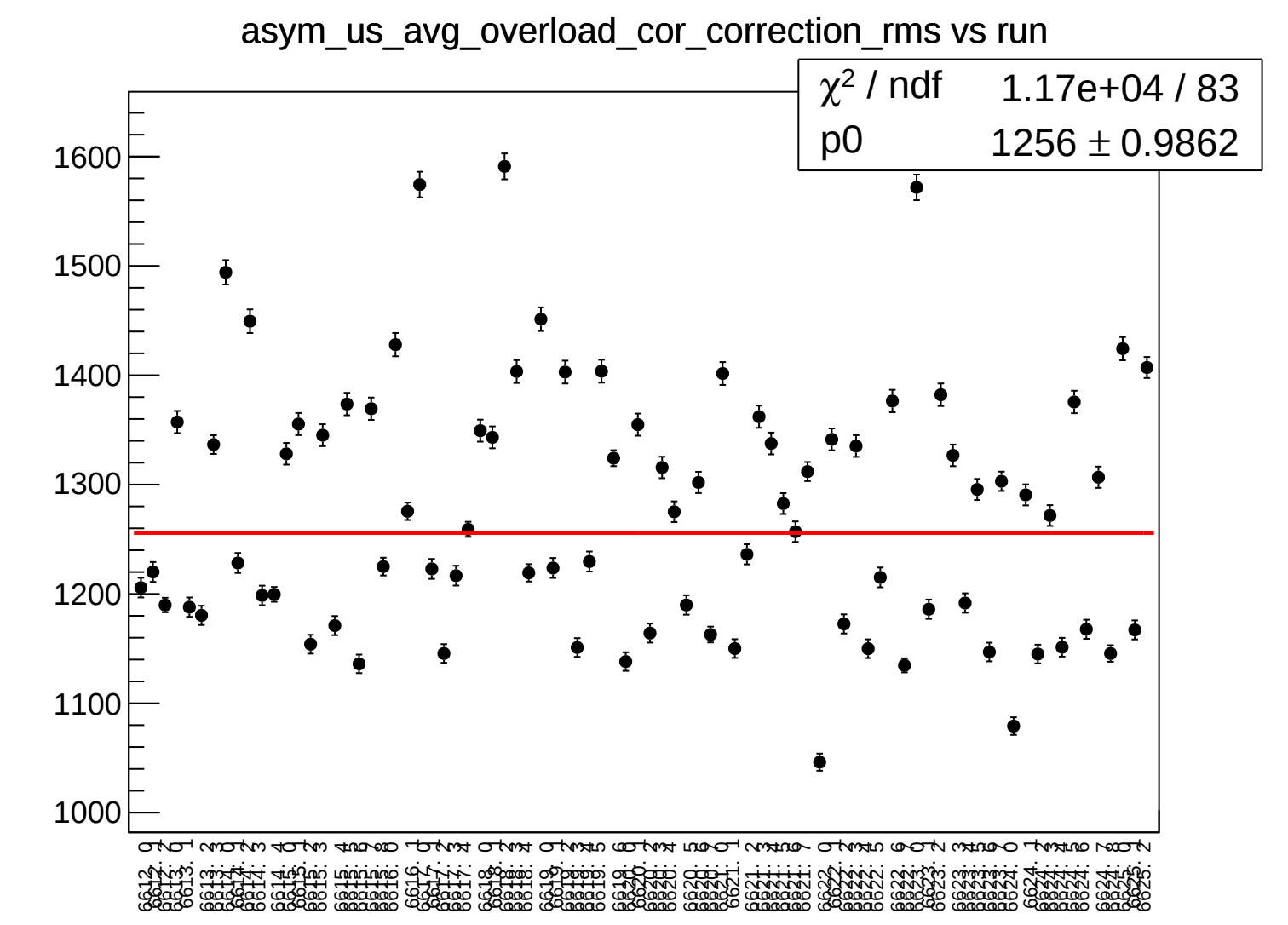

overload_cor_asym_us_avg_mean vs run
χ² / ndf 70.77 / 83
p0 −256.8 ± 1852
pull
Entries 84
Mean −3647
Std Dev 0

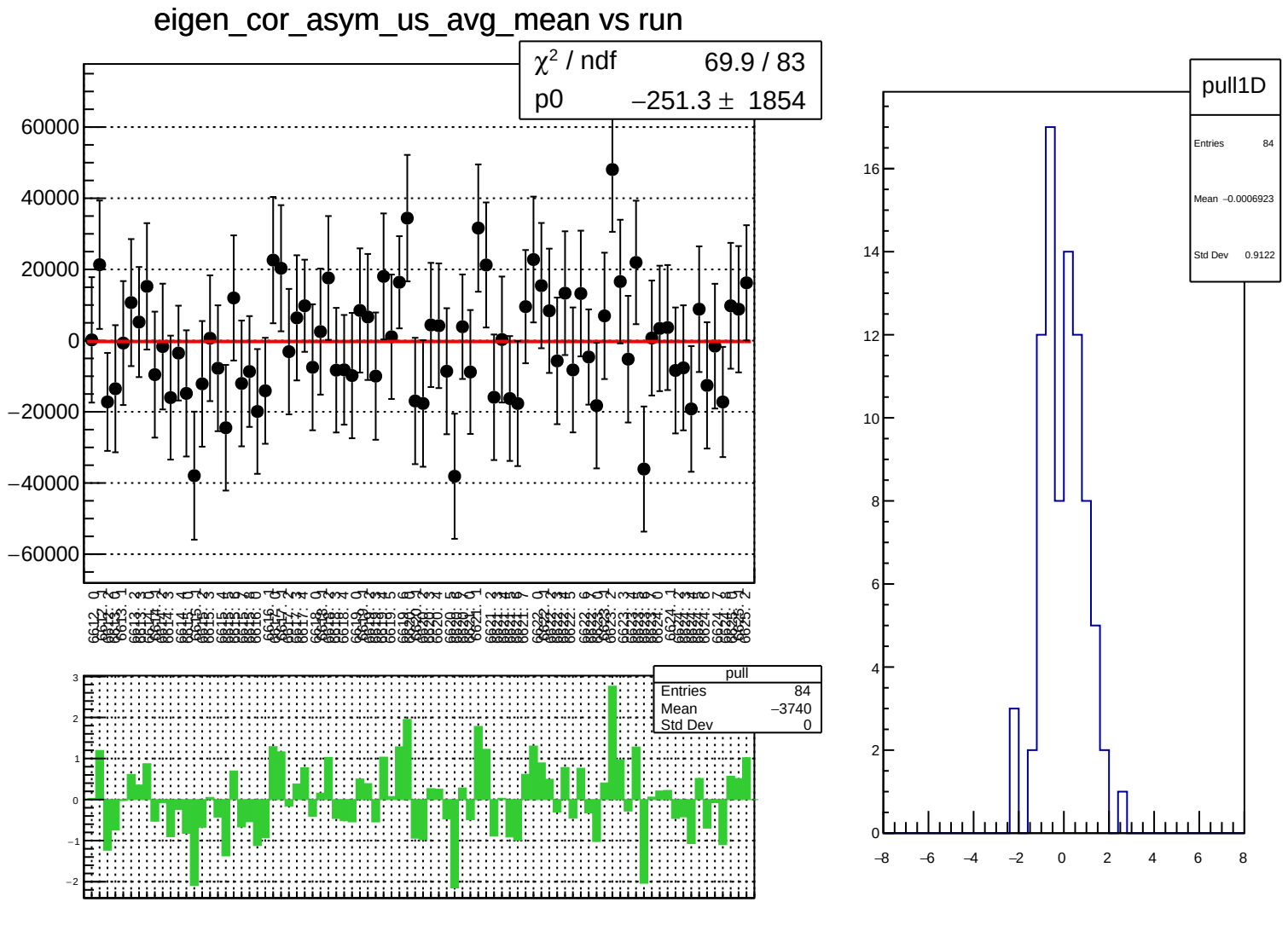

pull1D
Entries 84
Mean −0.0006925
Std Dev 0.9178

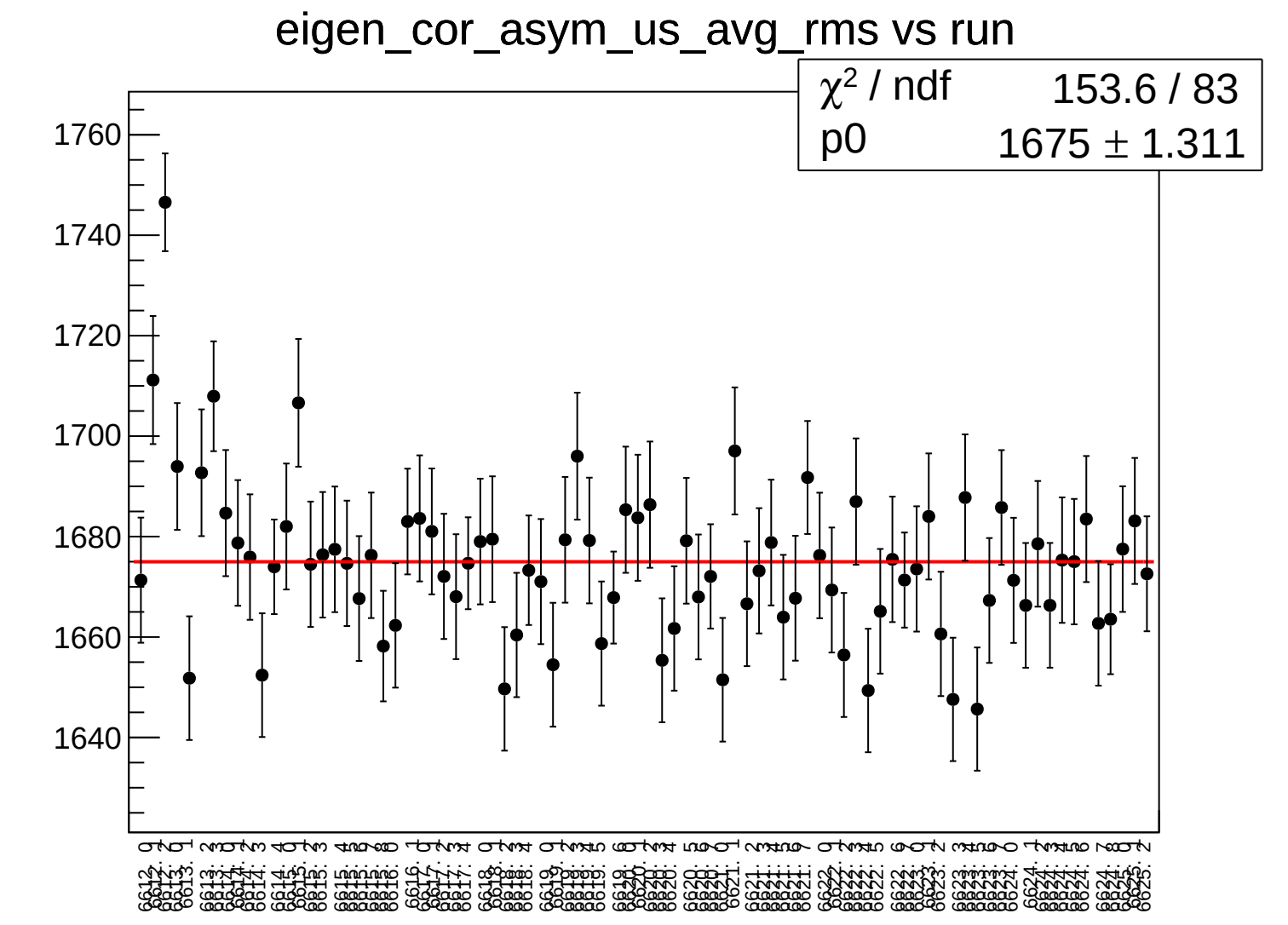

overload_cor_asym_us_avg_rms vs run
χ² / ndf 155.4 / 83
p0 1674 ± 1.31
1760
1740
1720
1700
1680
1660
1640
1620

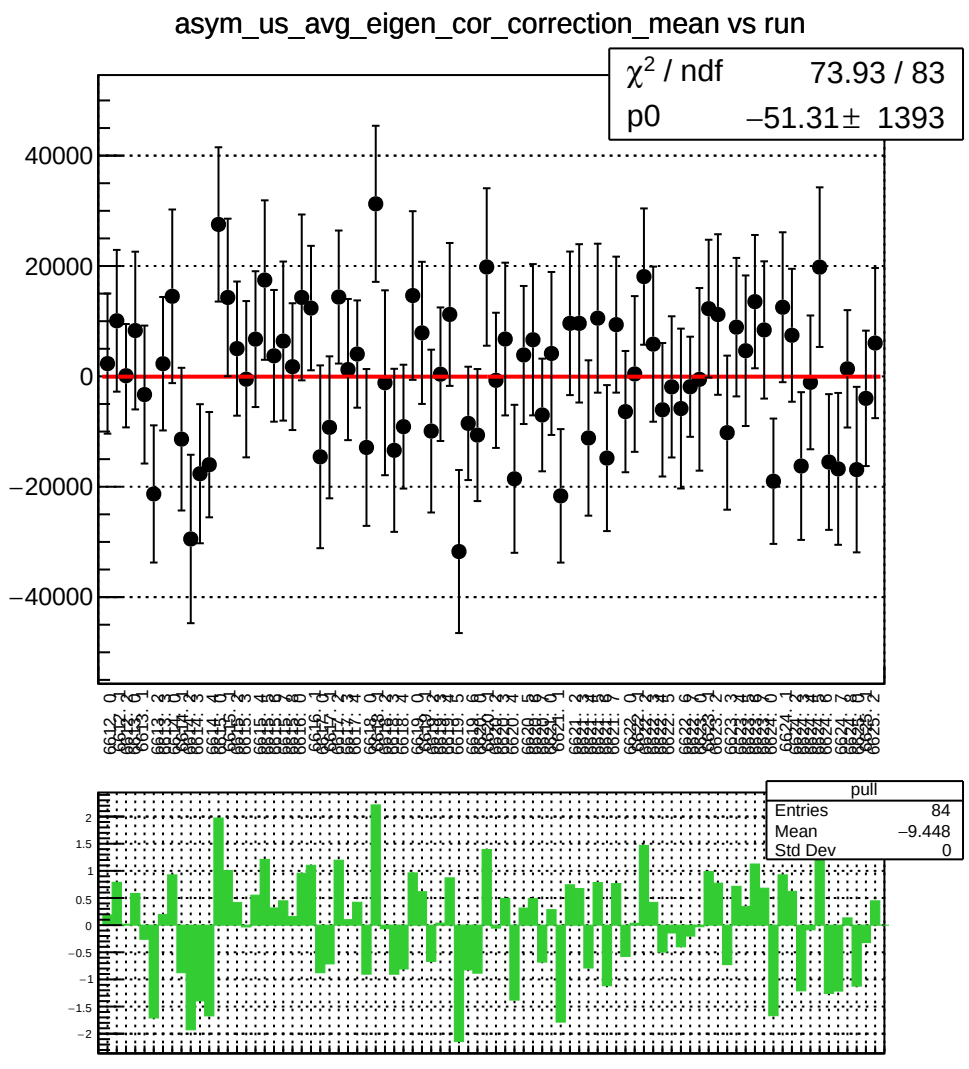

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 73.26 / 83
p0 −56.13 ± 1395
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −16.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

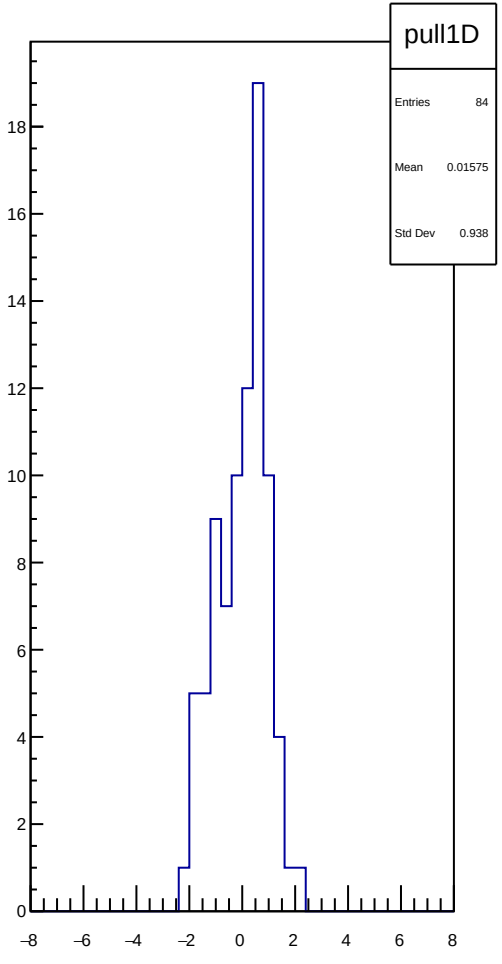

pull1D
Entries 84
Mean 0.01567
Std Dev 0.9337
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

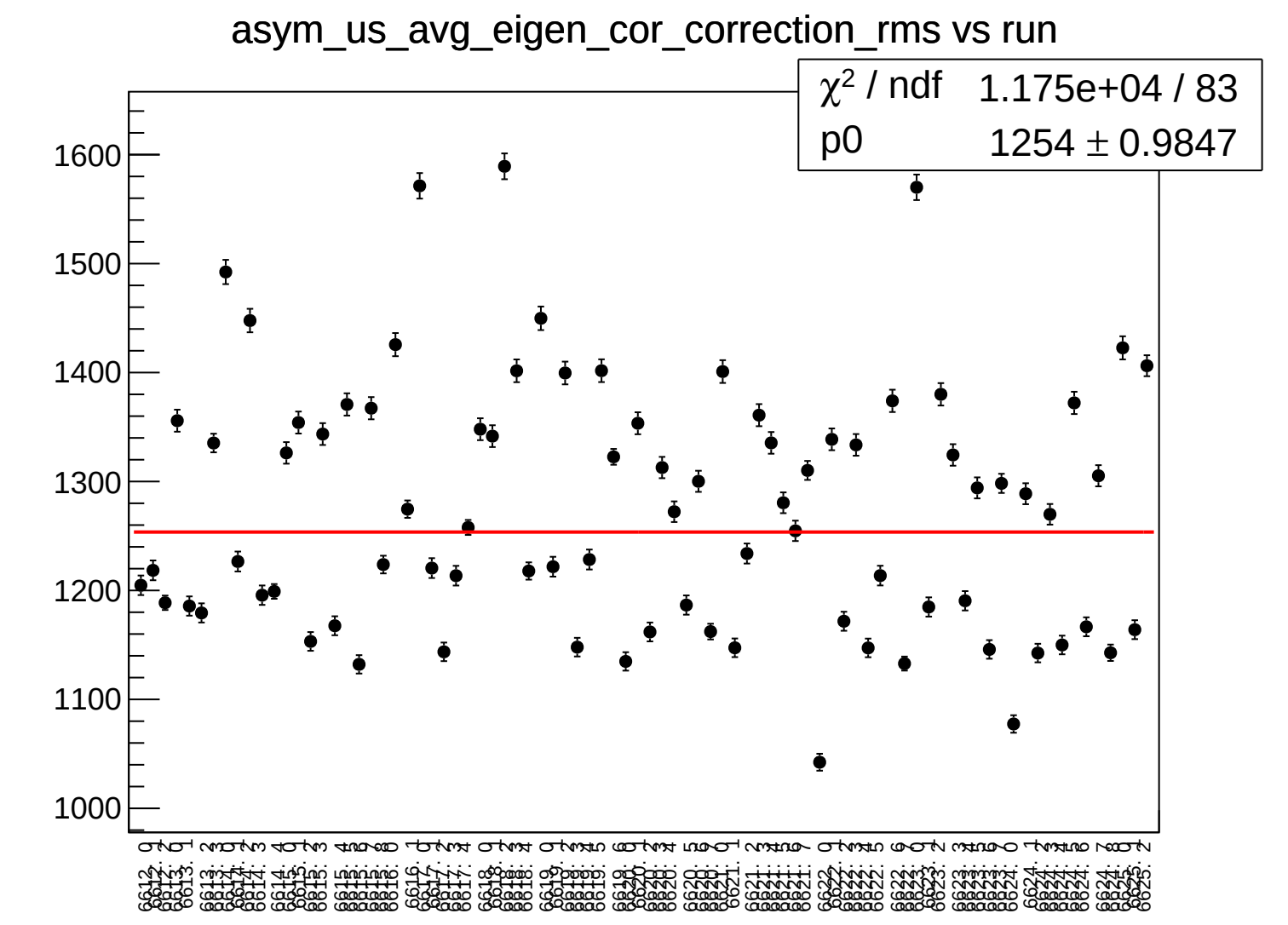

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 1.17e+04 / 83
p0 1256 ± 0.9862
1600
1500
1400
1300
1200
1100
1000

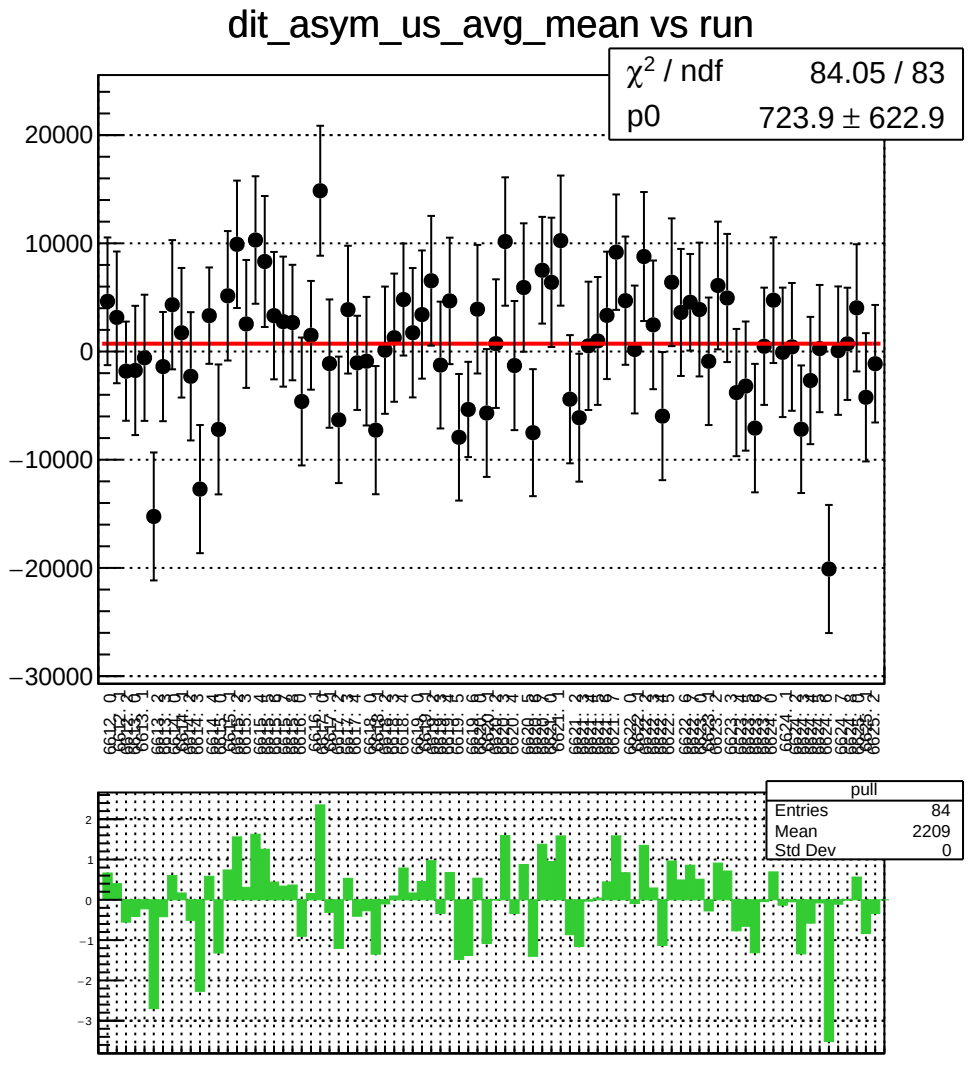

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 69.9 / 83
p0 −251.3 ± 1854
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −3740
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.0006923
Std Dev 0.9122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

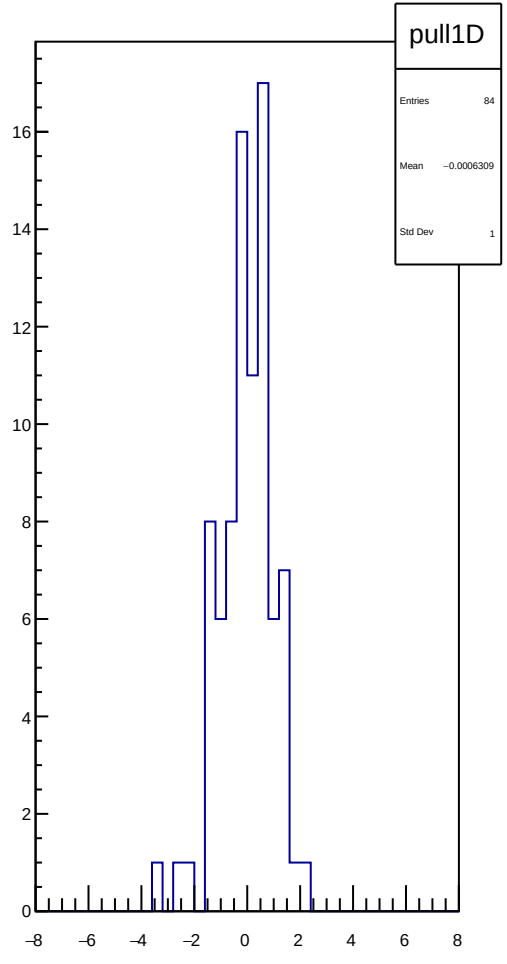

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 153.6 / 83
p0 1675 ± 1.311
1760
1740
1720
1700
1680
1660
1640

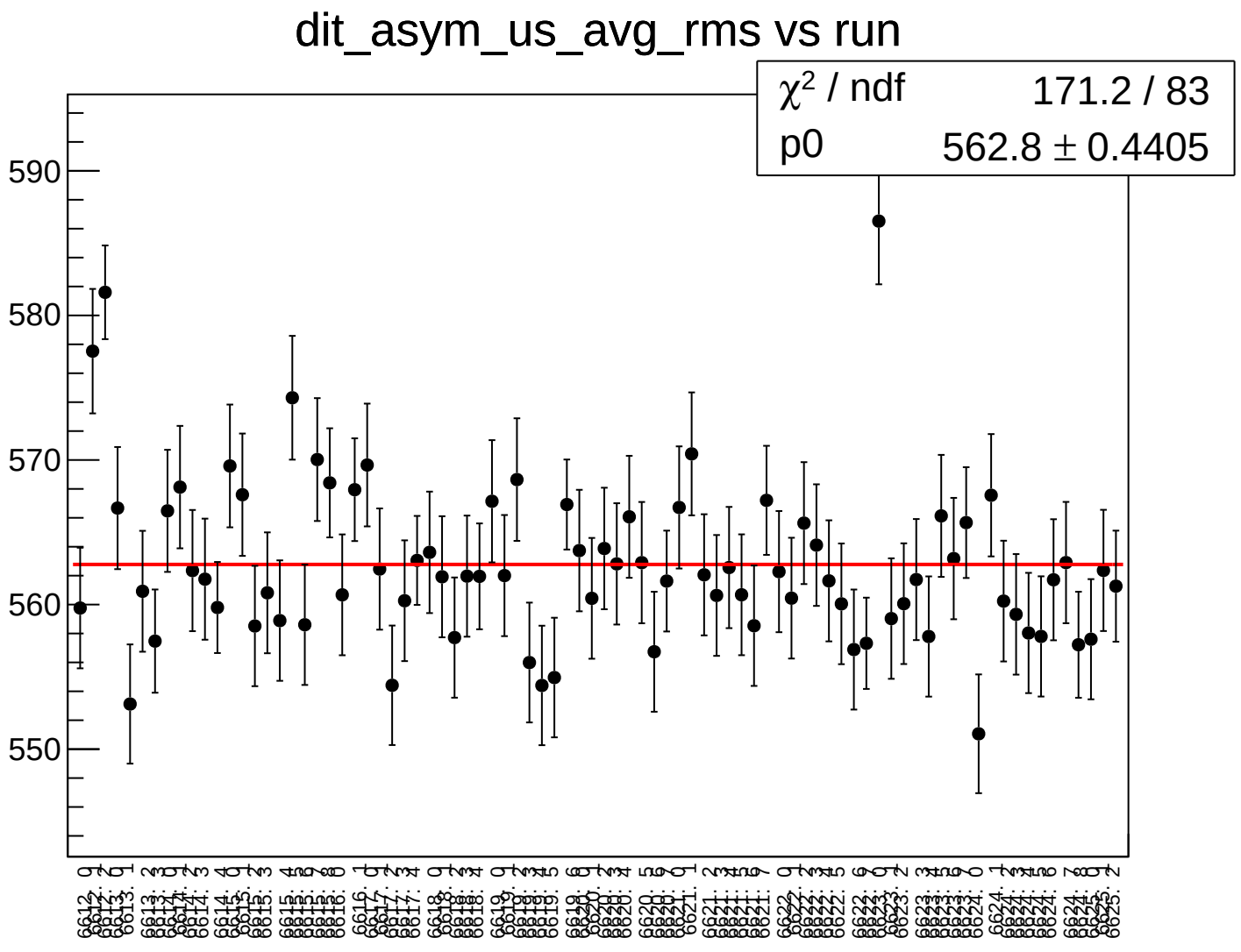

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 73.93 / 83
p0 −51.31± 1393
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −9.448
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

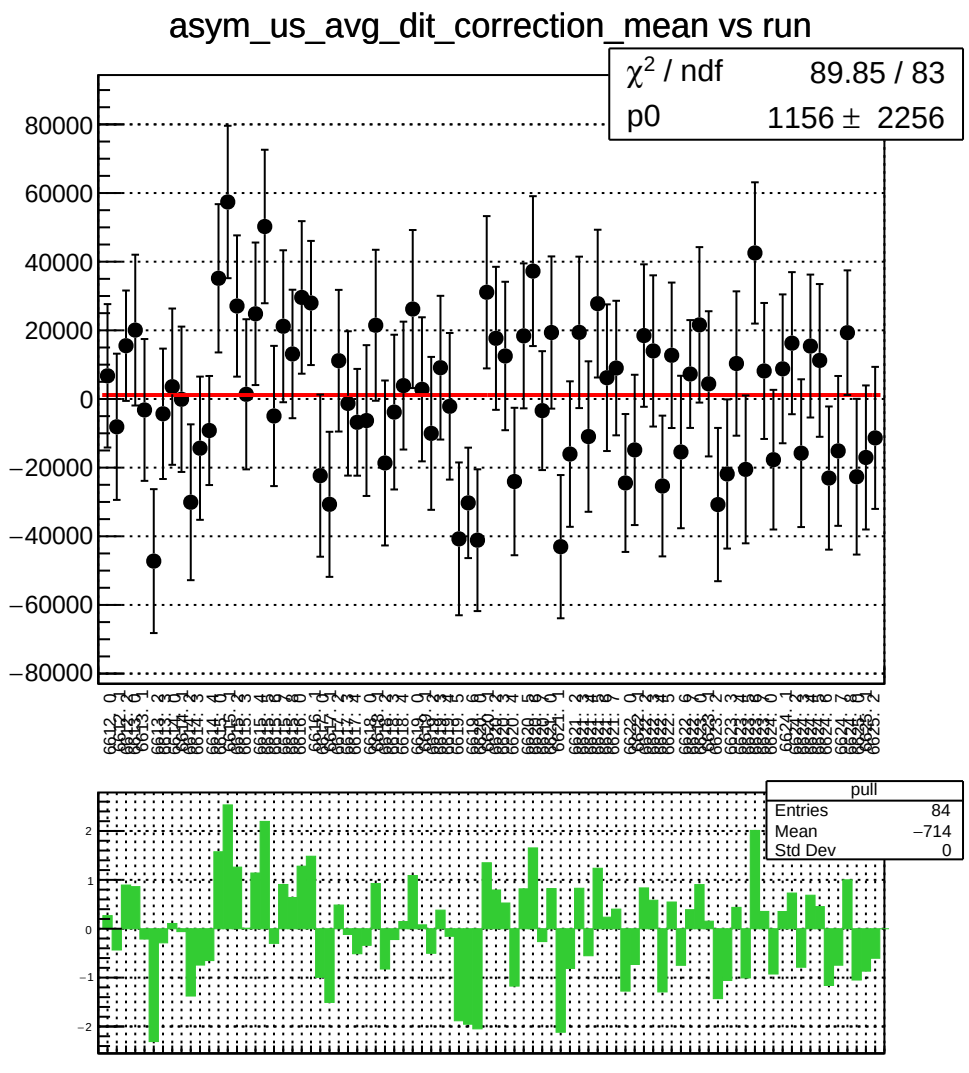

pull1D
Entries 84
Mean 0.01575
Std Dev 0.938
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

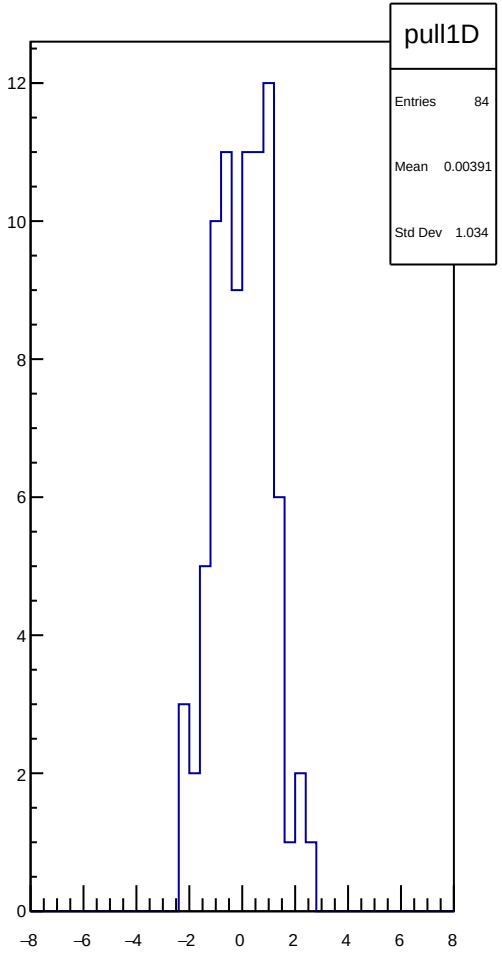

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.175e+04 / 83
p0 1254 ± 0.9847
1600
1500
1400
1300
1200
1100
1000

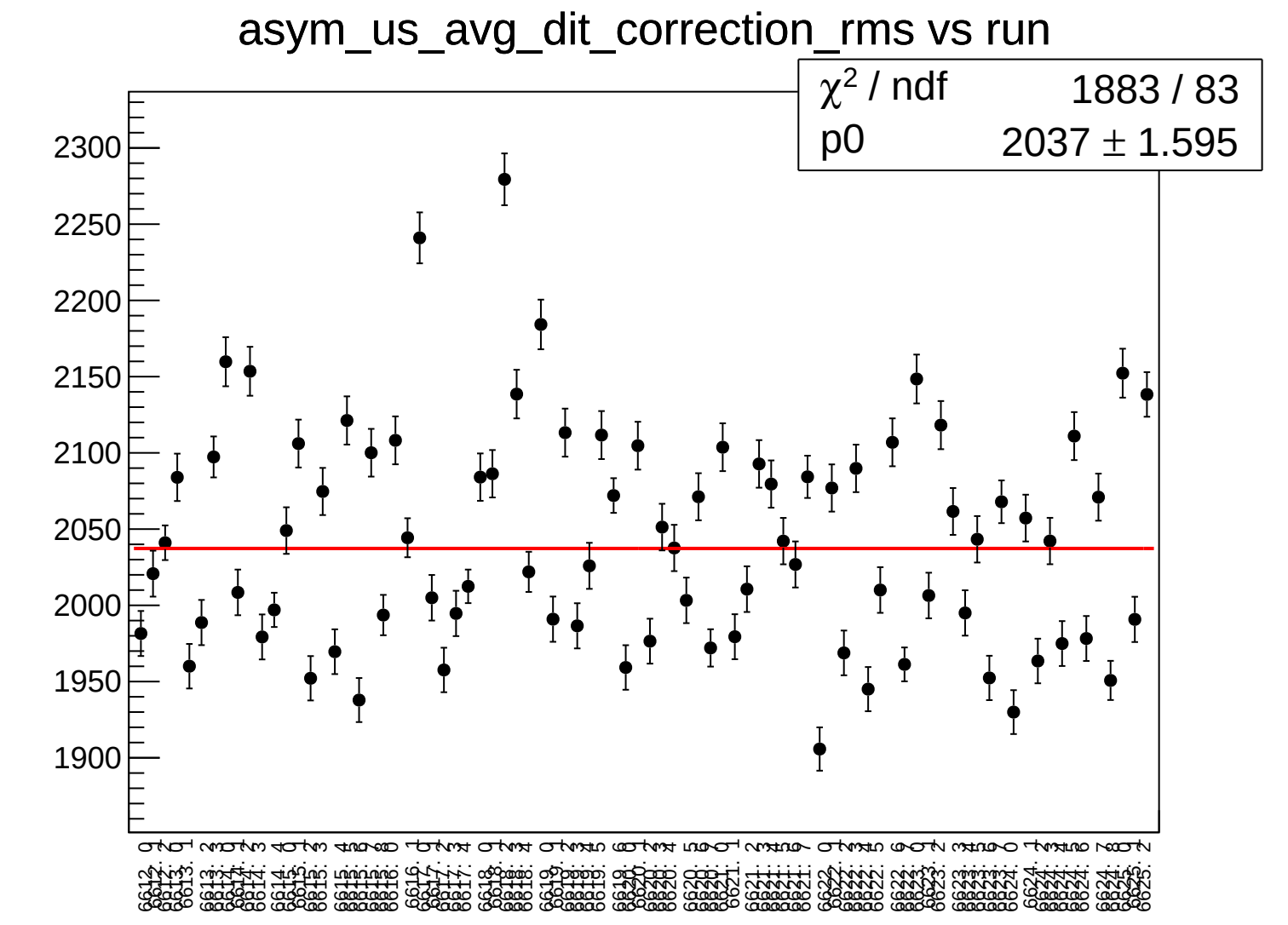

dit_asym_us_avg_mean vs run
χ² / ndf 84.05 / 83
p0 723.9 ± 622.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 2209
Std Dev 0
2
1
0
−1
−2
−3

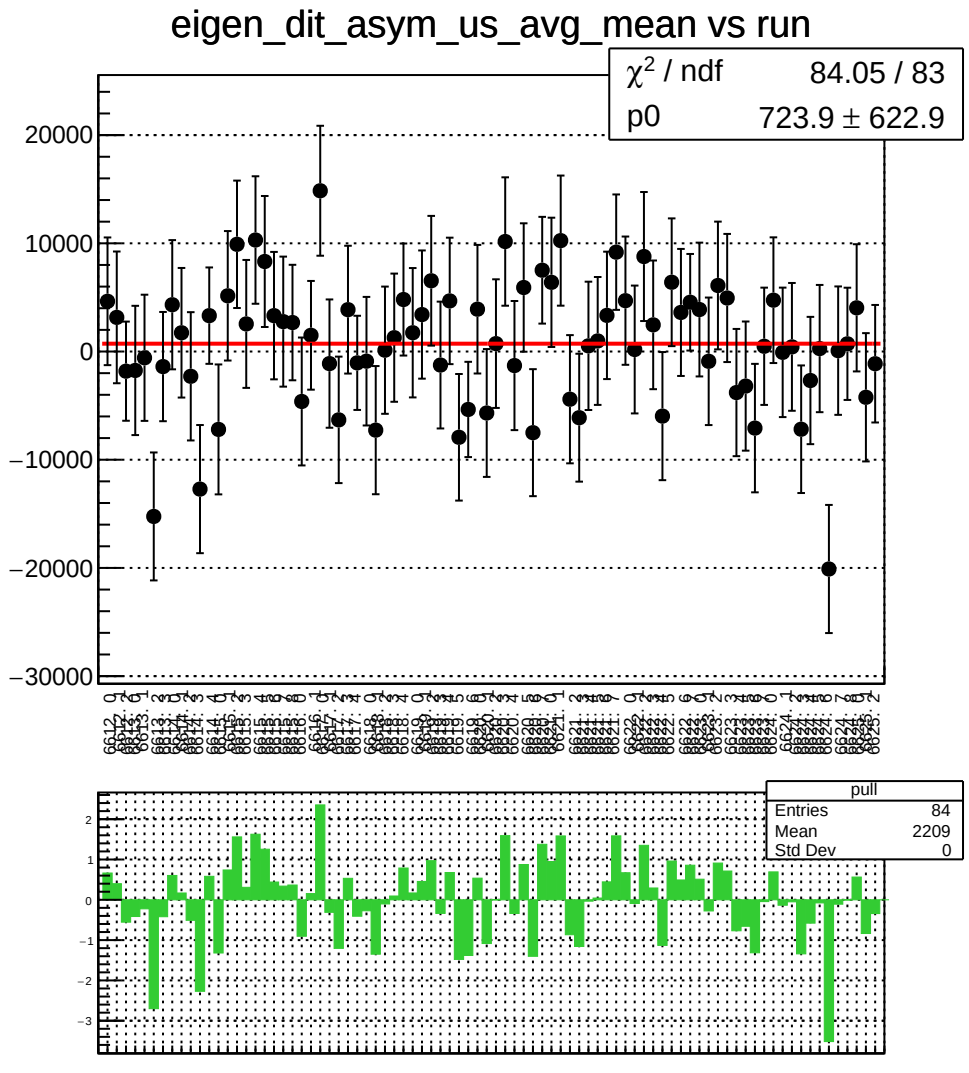

pull1D
Entries 84
Mean −0.0006309
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

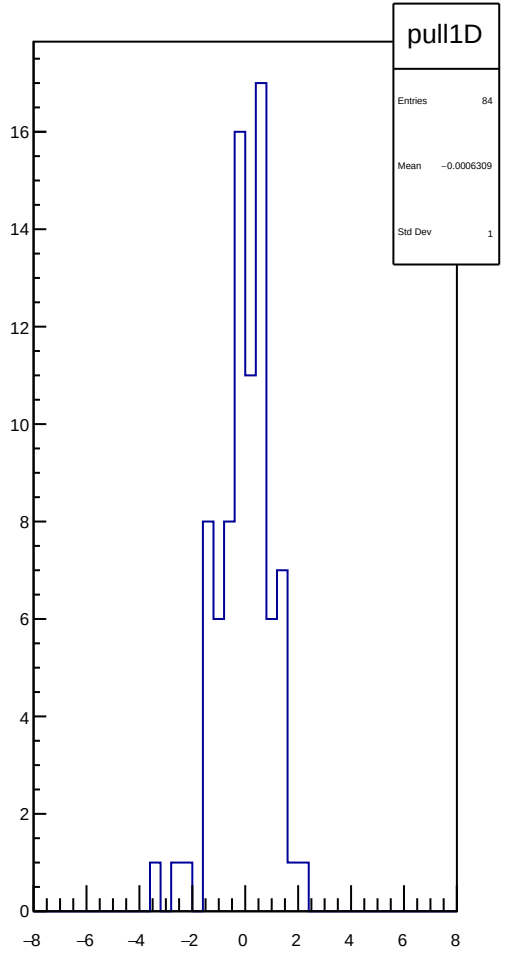

dit_asym_us_avg_rms vs run
χ² / ndf 171.2 / 83
p0 562.8 ± 0.4405
590
580
570
560
550

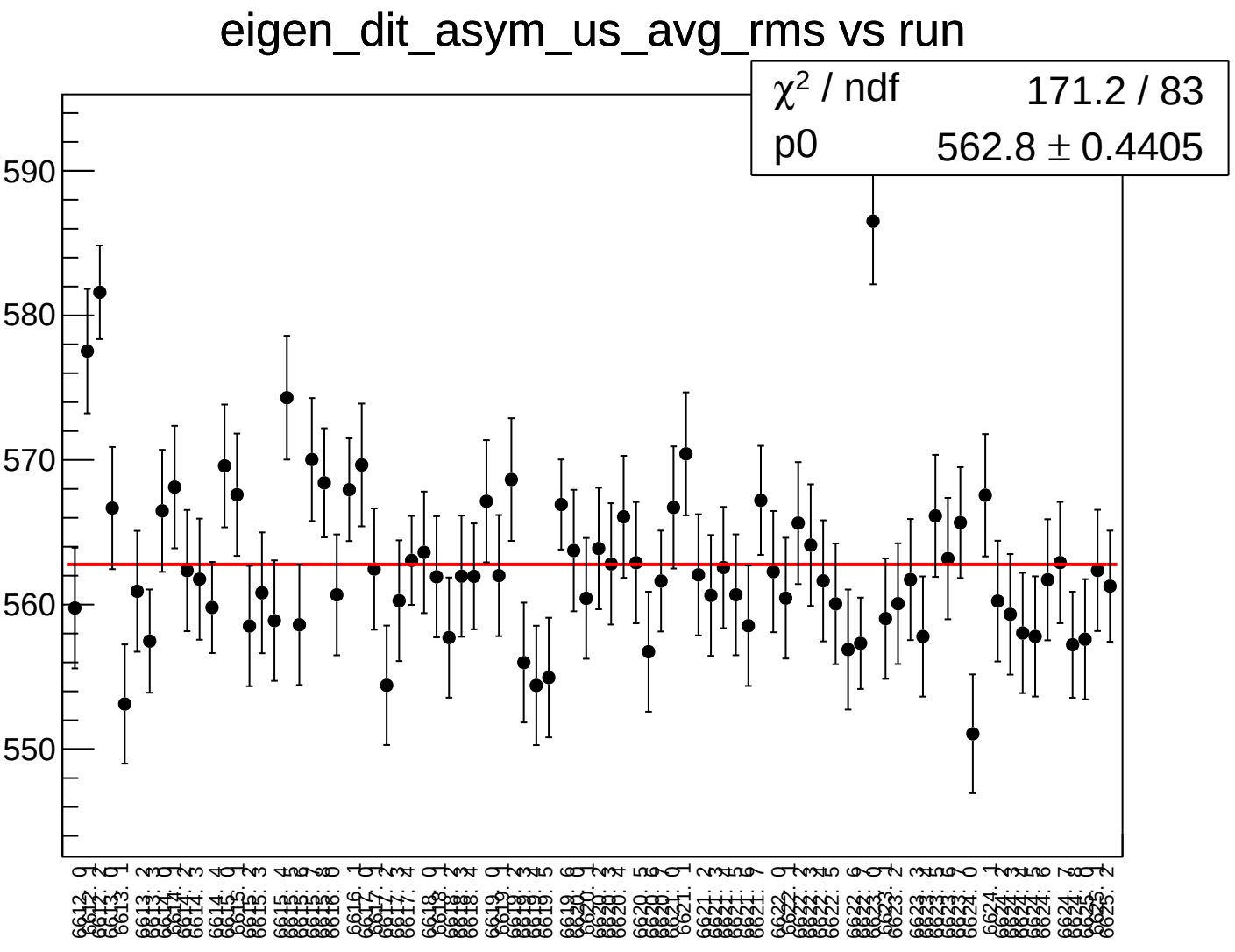

asym_us_avg_dit_correction_mean vs run
χ² / ndf 89.85 / 83
p0 1156 ± 2256
pull
Entries 84
Mean −714
Std Dev 0

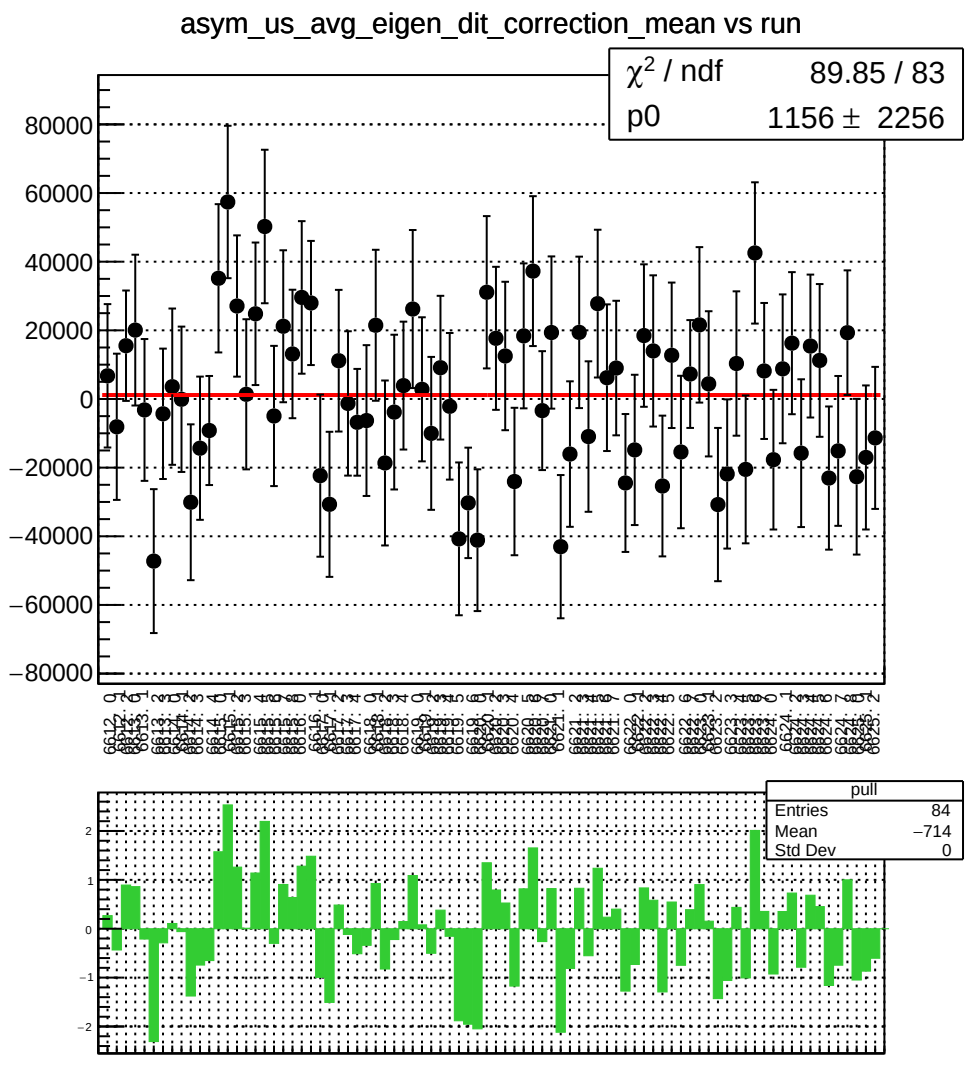

pull1D
Entries 84
Mean 0.00391
Std Dev 1.034

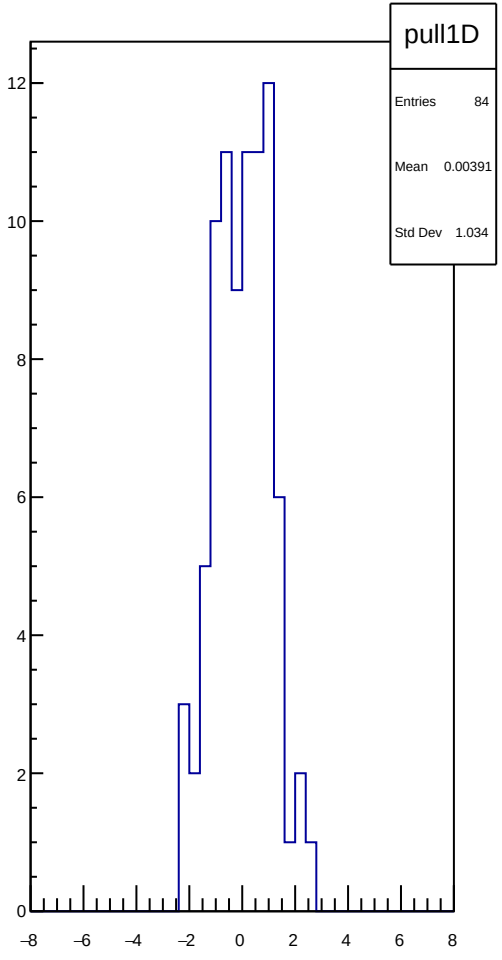

asym_us_avg_dit_correction_rms vs run
χ² / ndf 1883 / 83
p0 2037 ± 1.595
2300
2250
2200
2150
2100
2050
2000
1950
1900

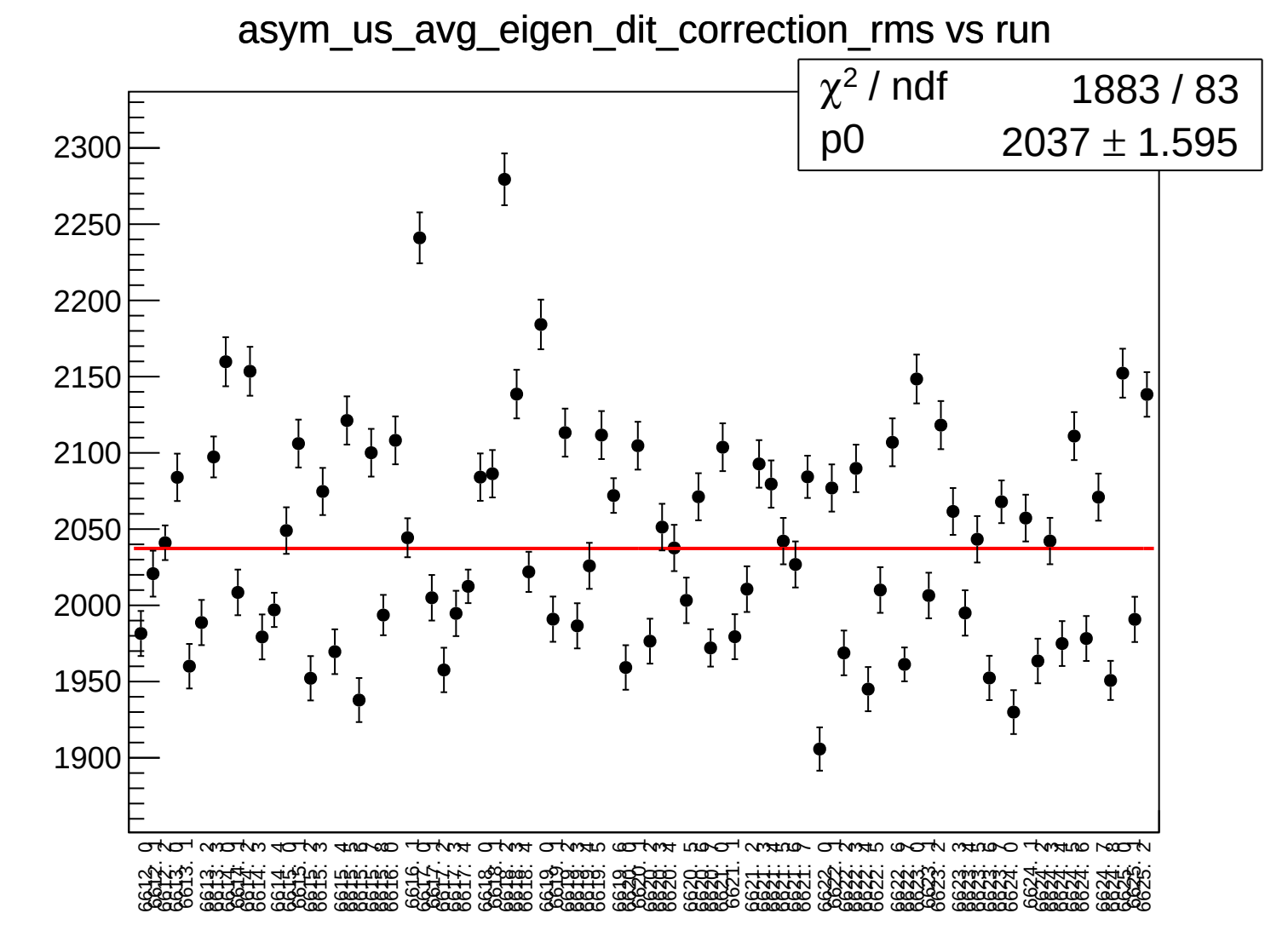

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 84.05 / 83
p0 723.9 ± 622.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 2209
Std Dev 0
2
1
0
−1
−2
−3

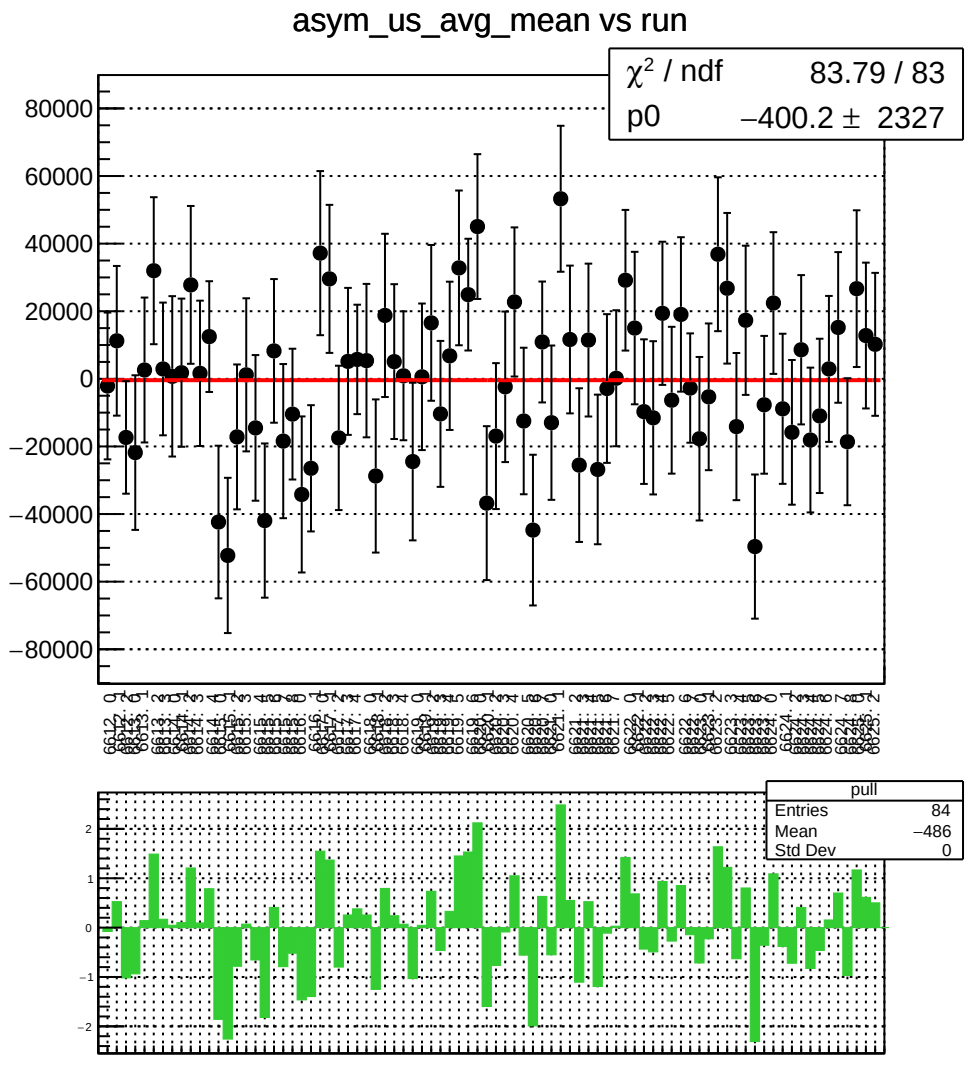

pull1D
Entries 84
Mean −0.0006309
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

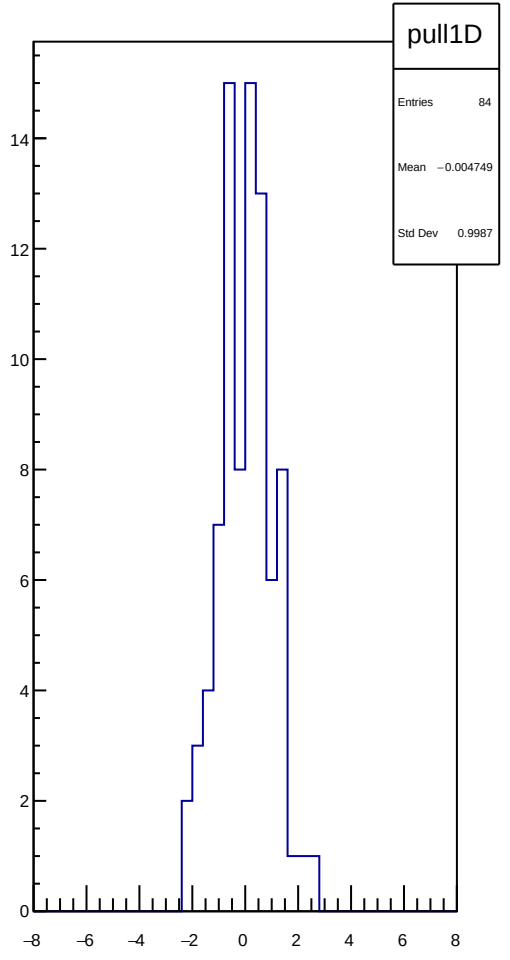

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 171.2 / 83
p0 562.8 ± 0.4405
590
580
570
560
550

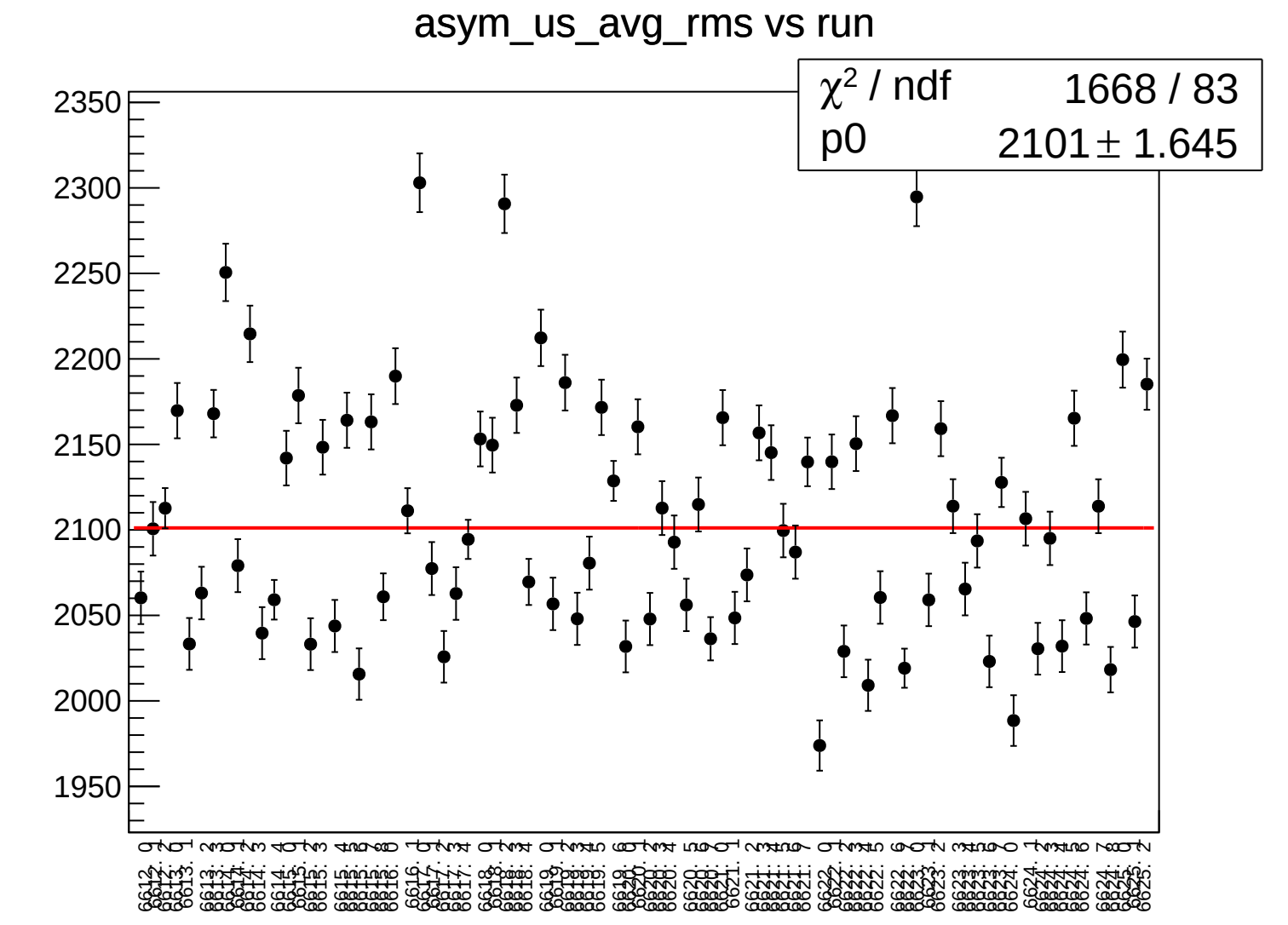

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.85 / 83
p0 1156 ± 2256
pull
Entries 84
Mean −714
Std Dev 0

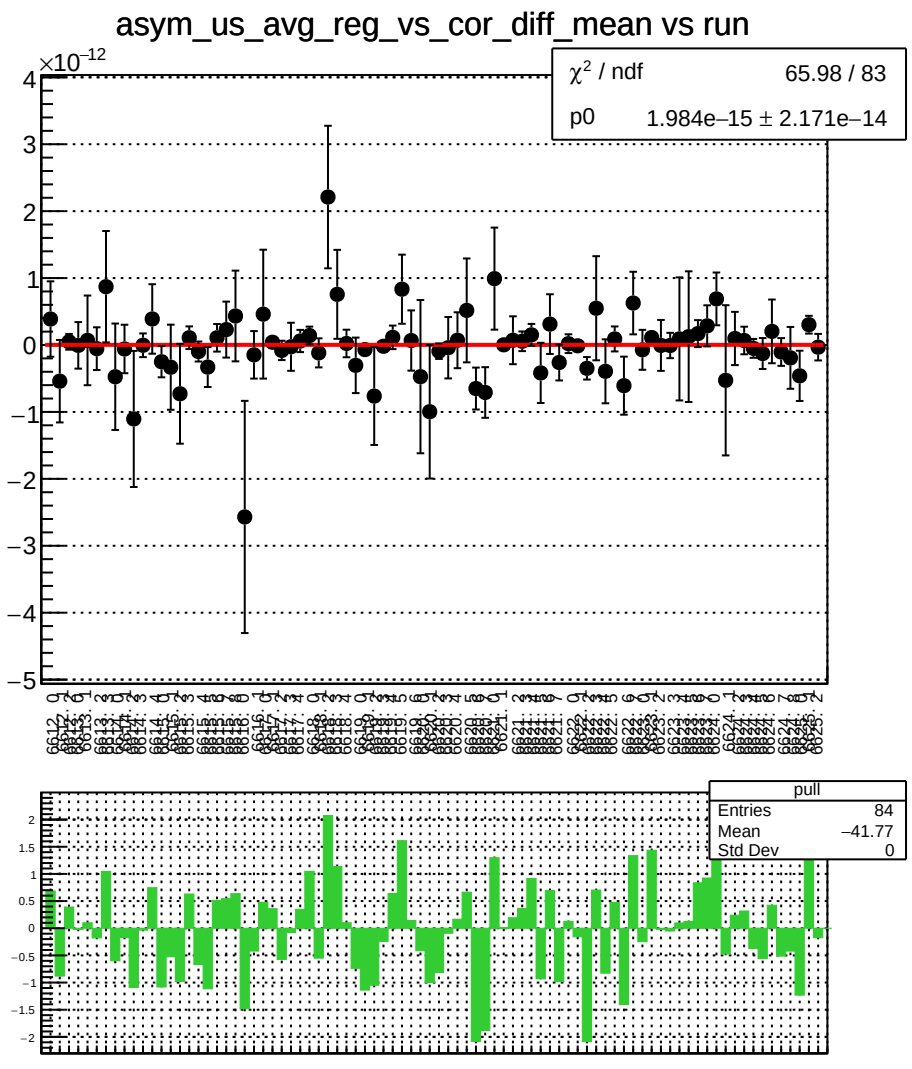

pull1D
Entries 84
Mean 0.00391
Std Dev 1.034

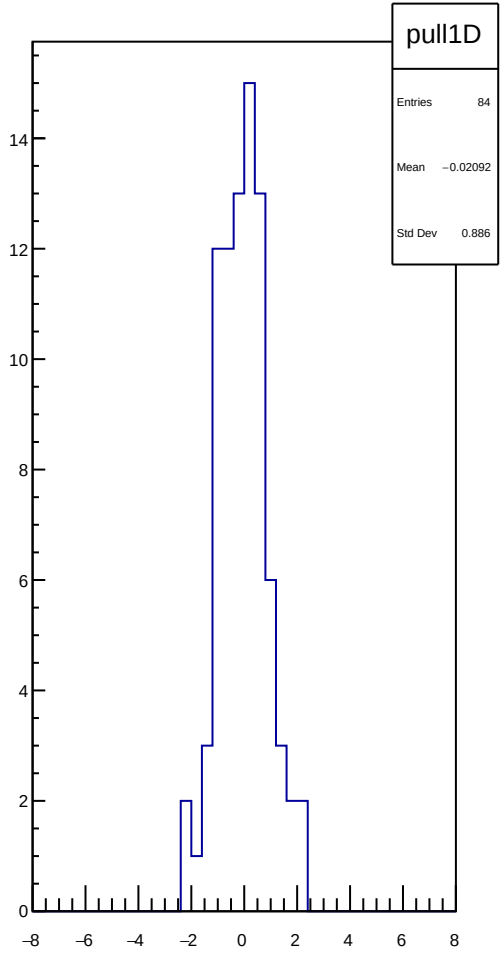

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 1883 / 83
p0 2037 ± 1.595
2300
2250
2200
2150
2100
2050
2000
1950
1900

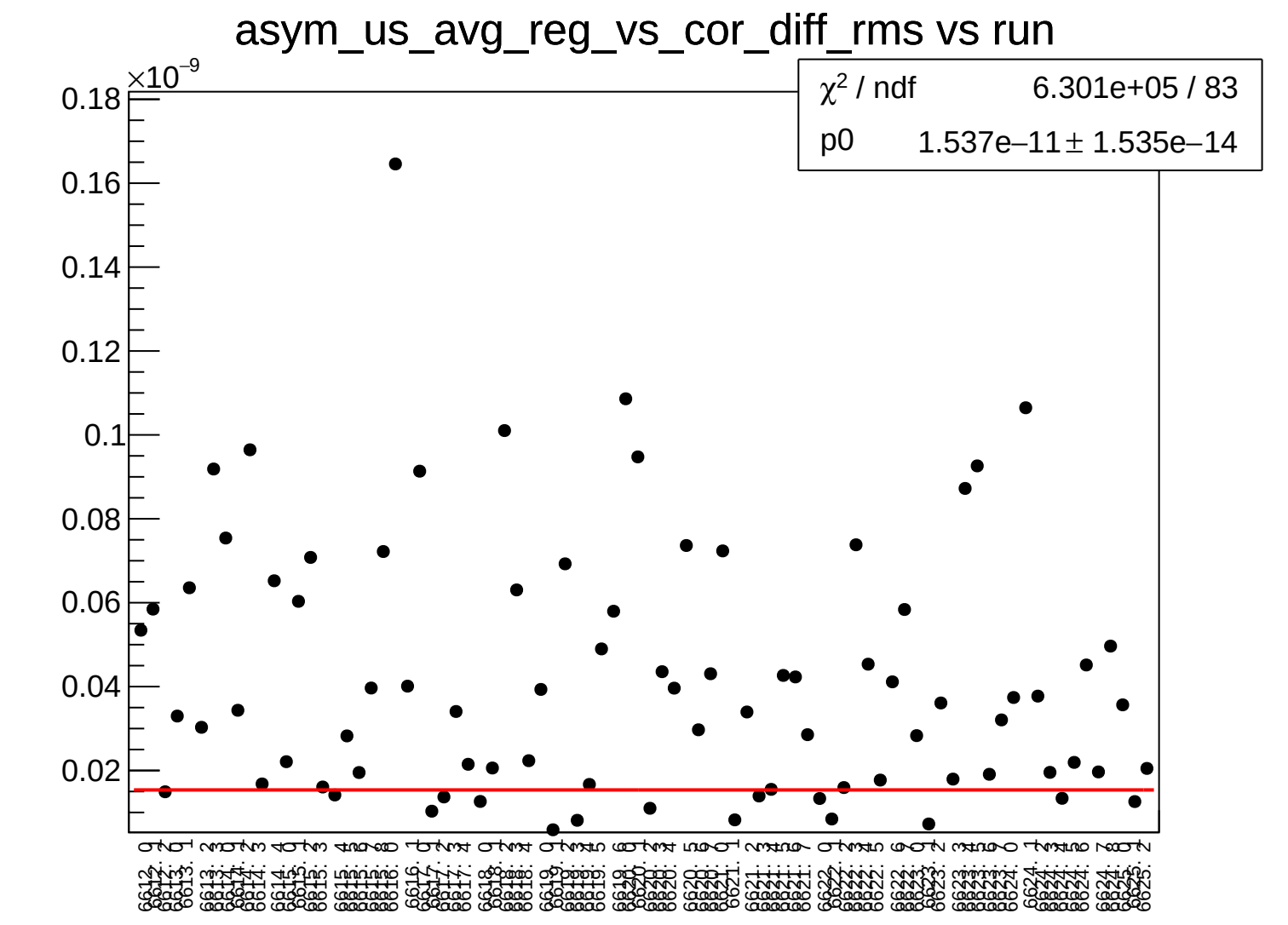

asym_us_avg_mean vs run
χ² / ndf 83.79 / 83
p0 −400.2 ± 2327
pull
Entries 84
Mean −486
Std Dev 0

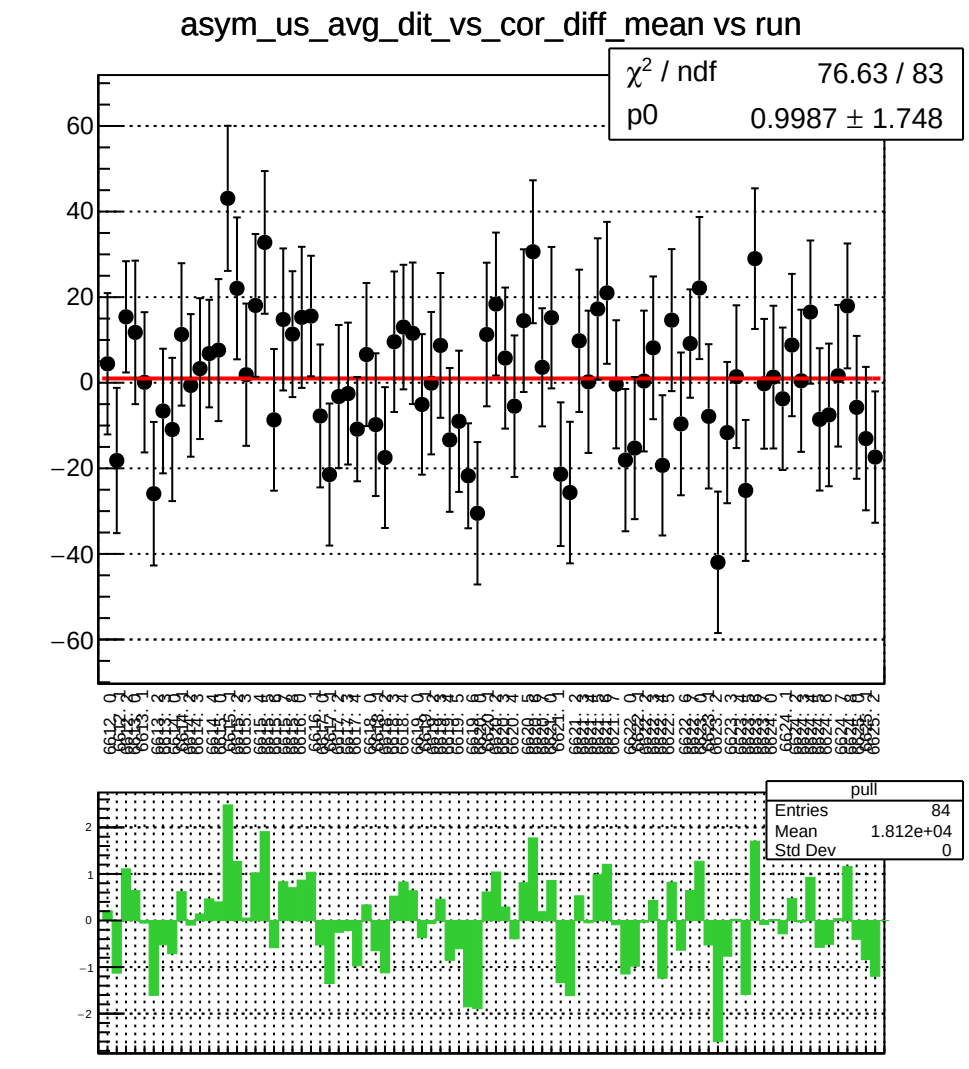

pull1D
Entries 84
Mean −0.004749
Std Dev 0.9987

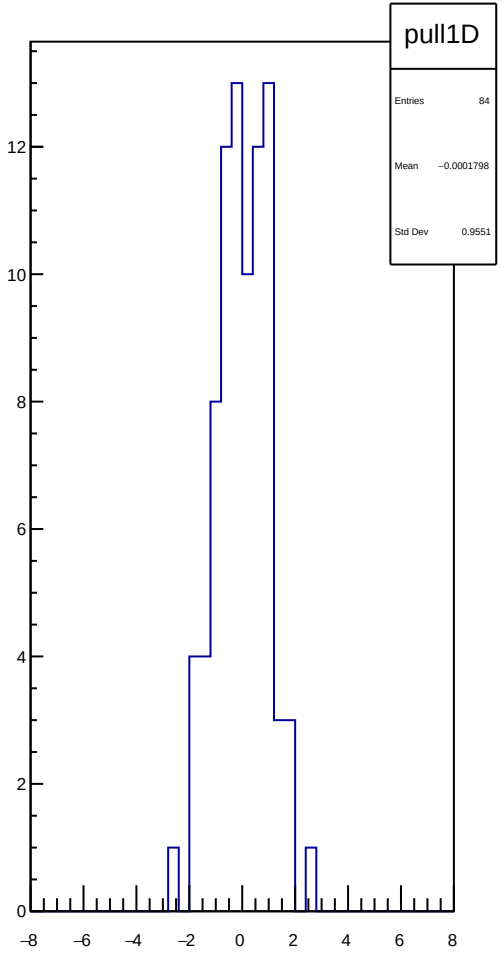

asym_us_avg_rms vs run
χ^2 / ndf 1668 / 83
p0 2101 ± 1.645
2350
2300
2250
2200
2150
2100
2050
2000
1950

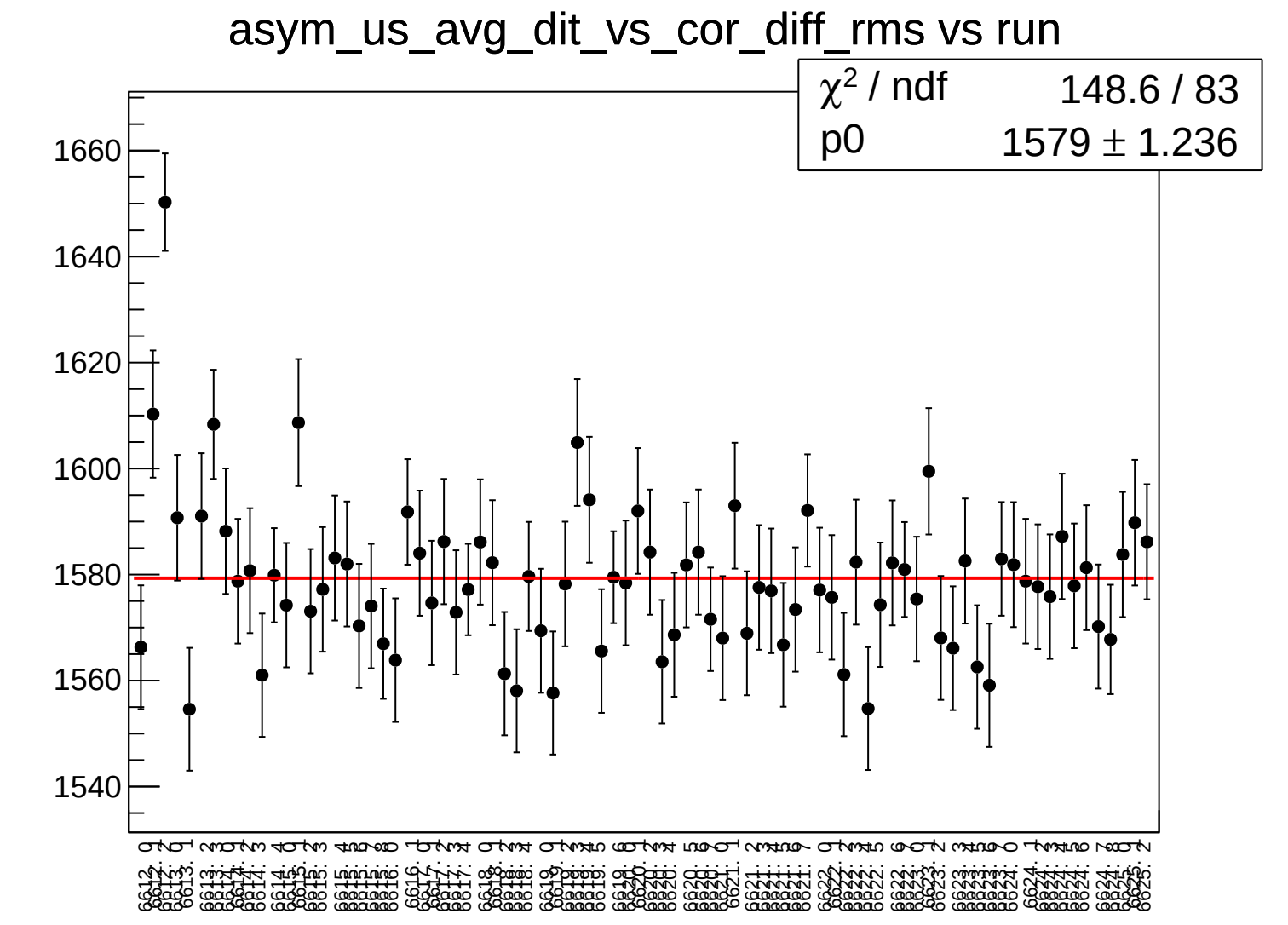

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.98 / 83
p0 1.984e−15 ± 2.171e−14
pull
Entries 84
Mean −41.77
Std Dev 0

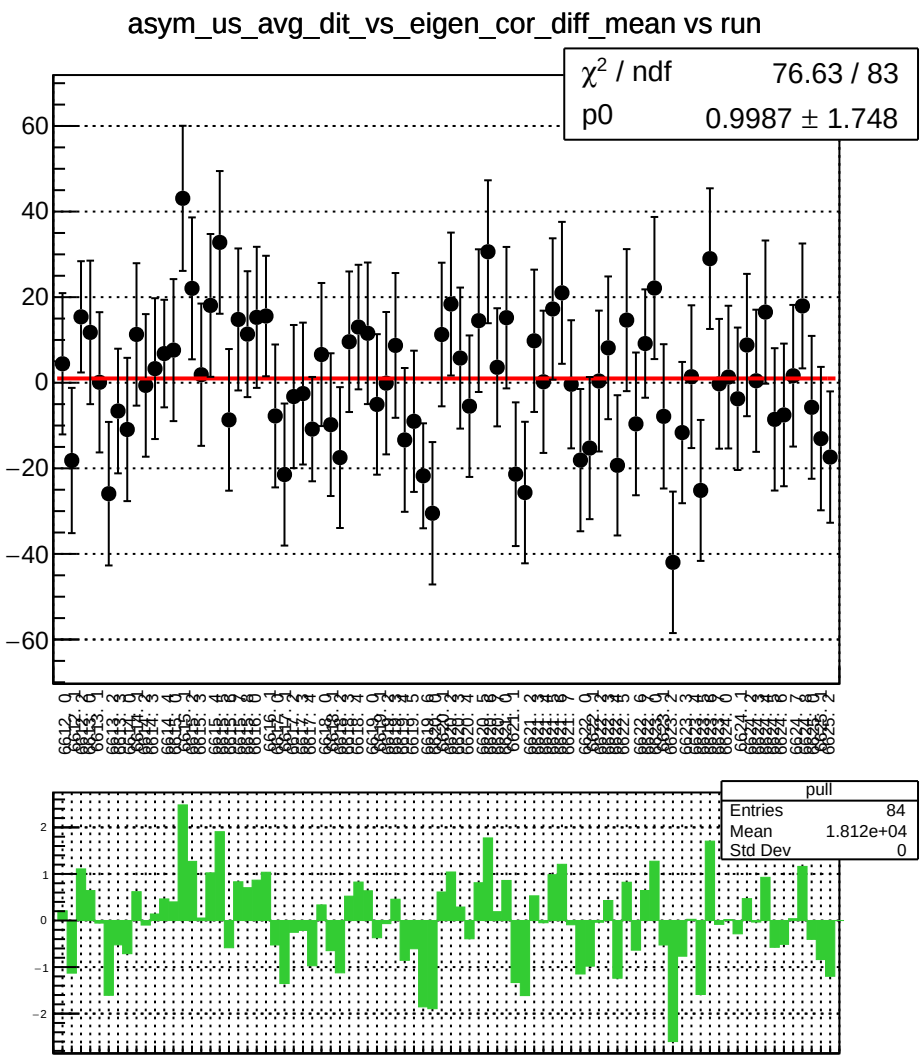

pull1D
Entries 84
Mean −0.02092
Std Dev 0.886

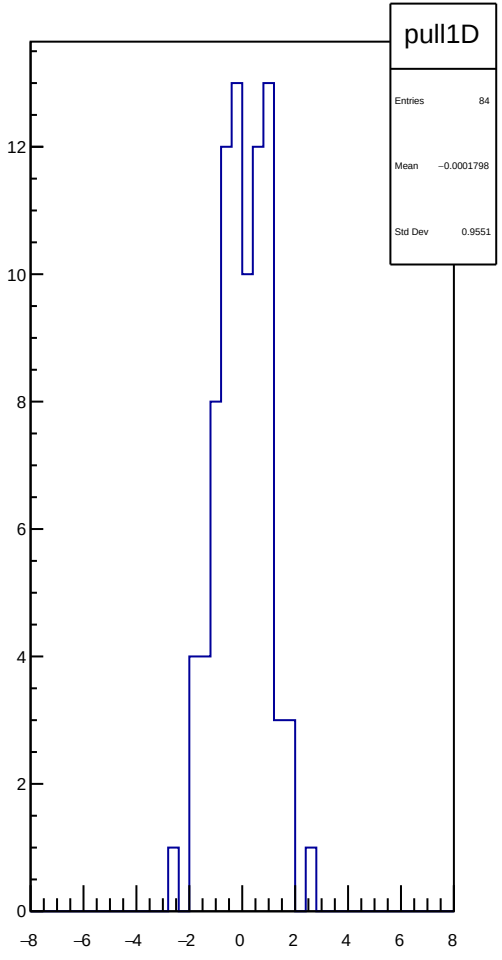

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 6.301e+05 / 83
p0 1.537e−11 ± 1.535e−14

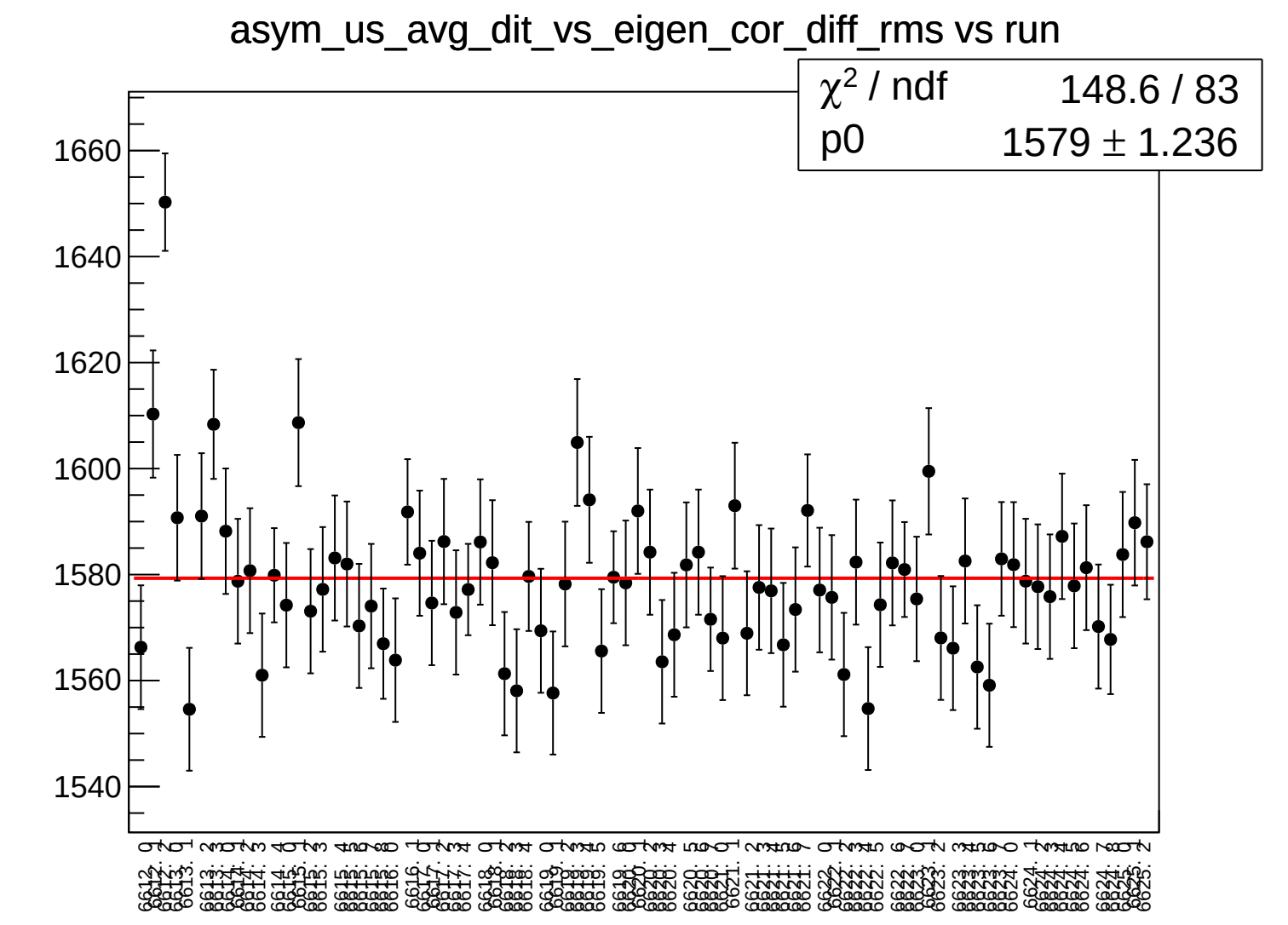

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.63 / 83
p0 0.9987 ± 1.748
pull
Entries 84
Mean 1.812e+04
Std Dev 0

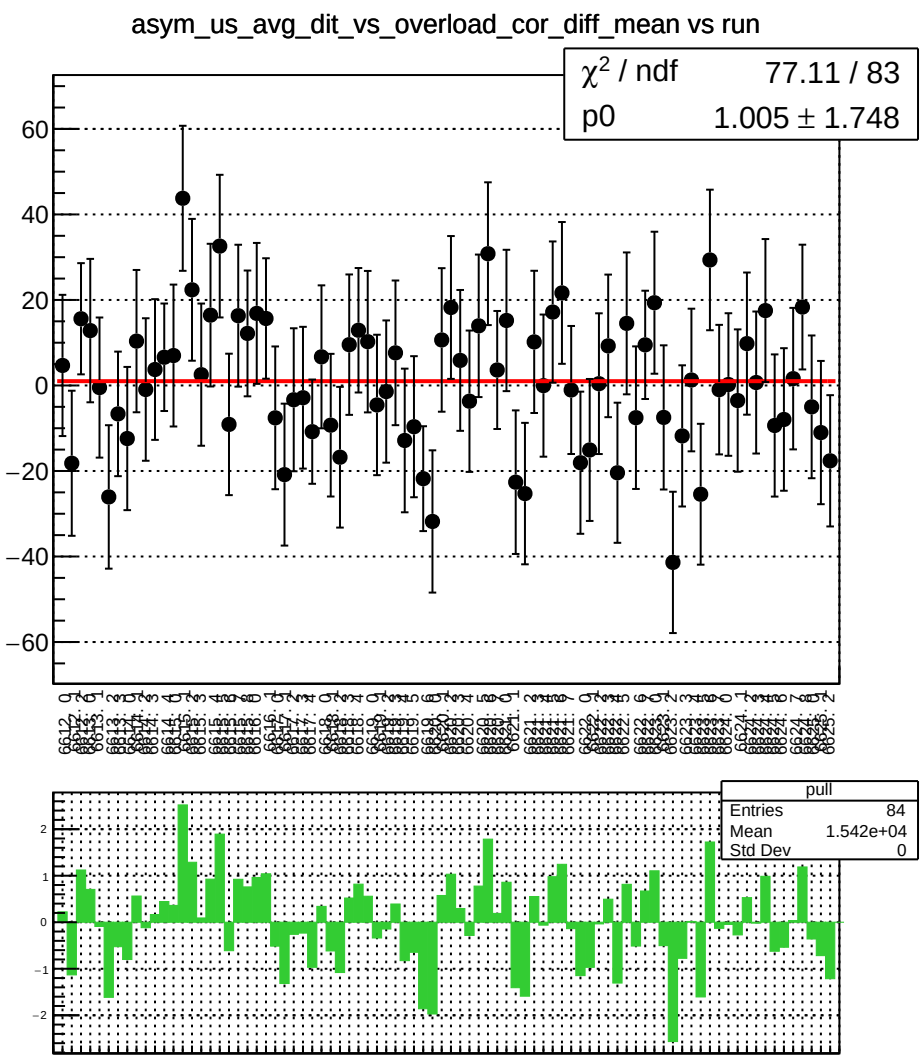

pull1D
Entries 84
Mean −0.0001798
Std Dev 0.9551

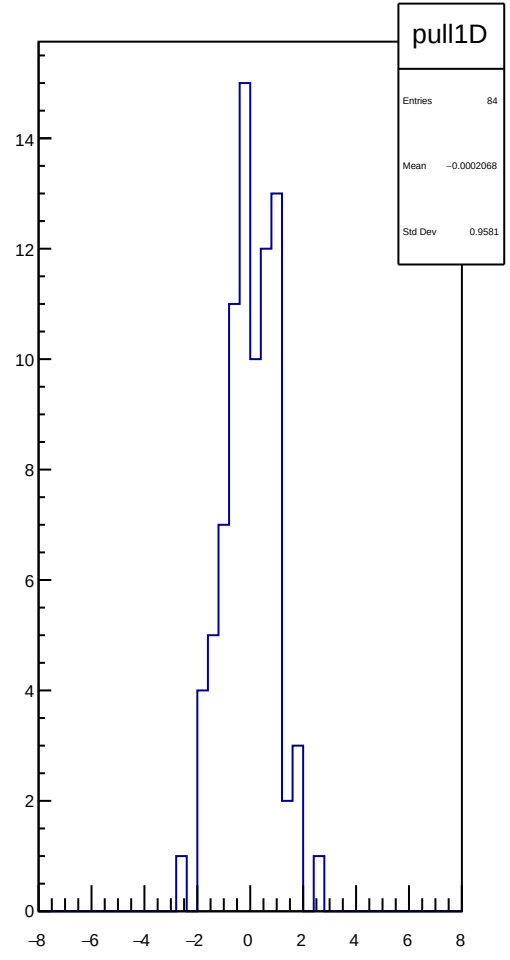

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 148.6 / 83
p0 1579 ± 1.236
1660
1640
1620
1600
1580
1560
1540

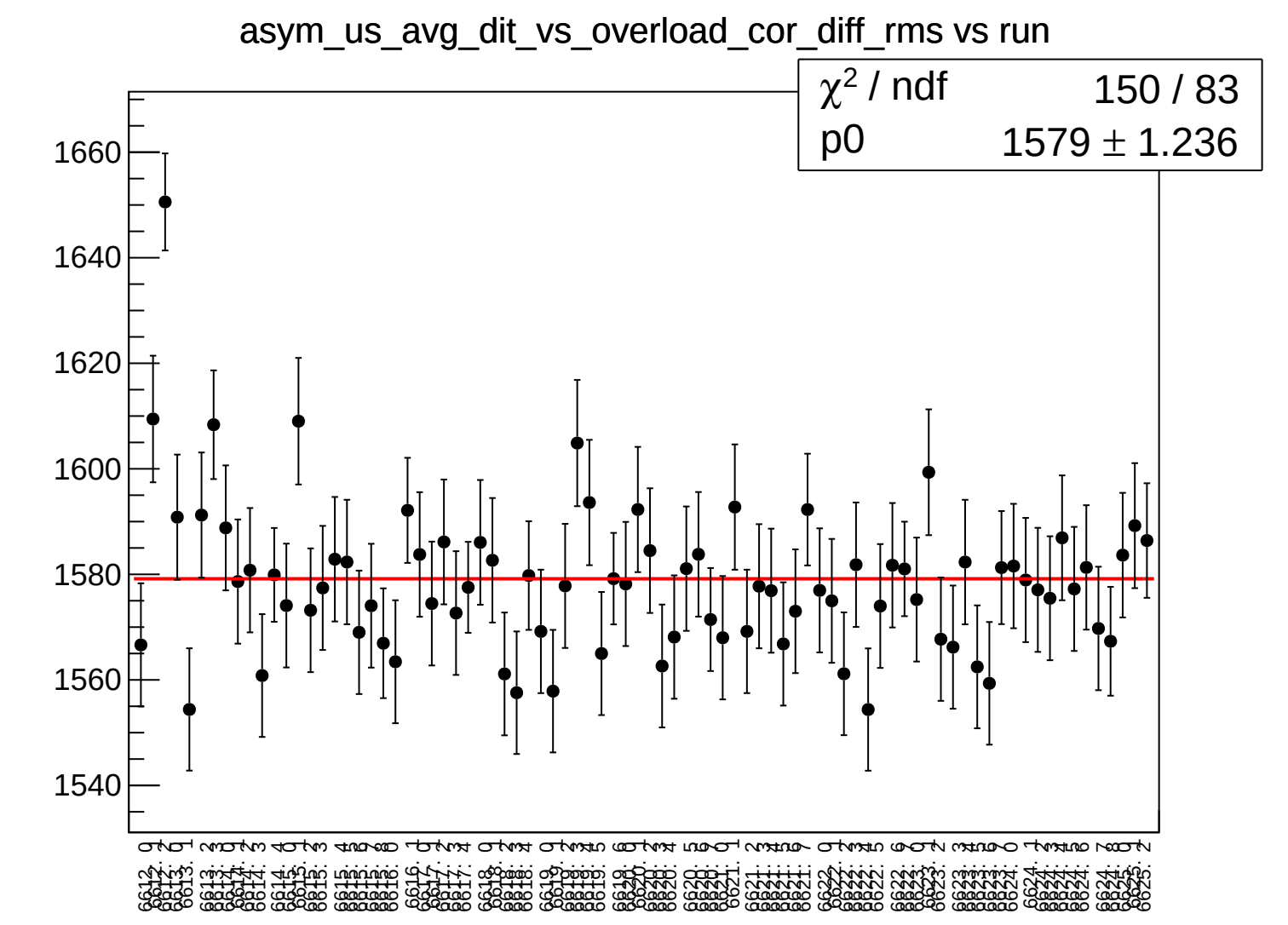

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.63 / 83
p0 0.9987 ± 1.748
pull
Entries 84
Mean 1.812e+04
Std Dev 0

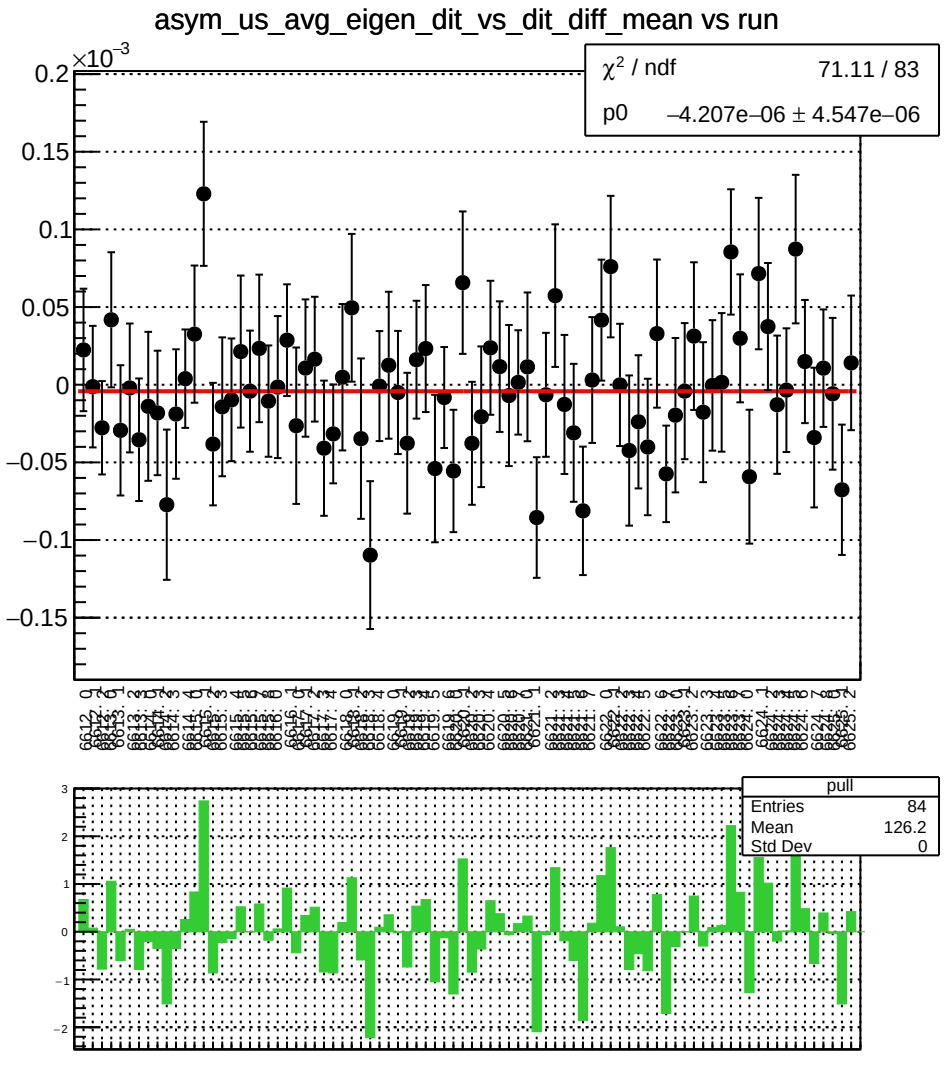

pull1D
Entries 84
Mean −0.0001798
Std Dev 0.9551

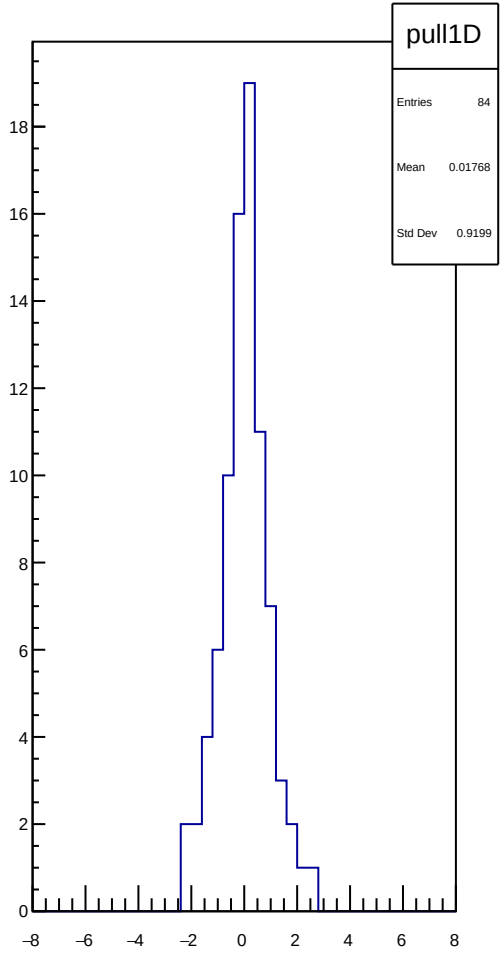

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 148.6 / 83
p0 1579 ± 1.236
1660
1640
1620
1600
1580
1560
1540

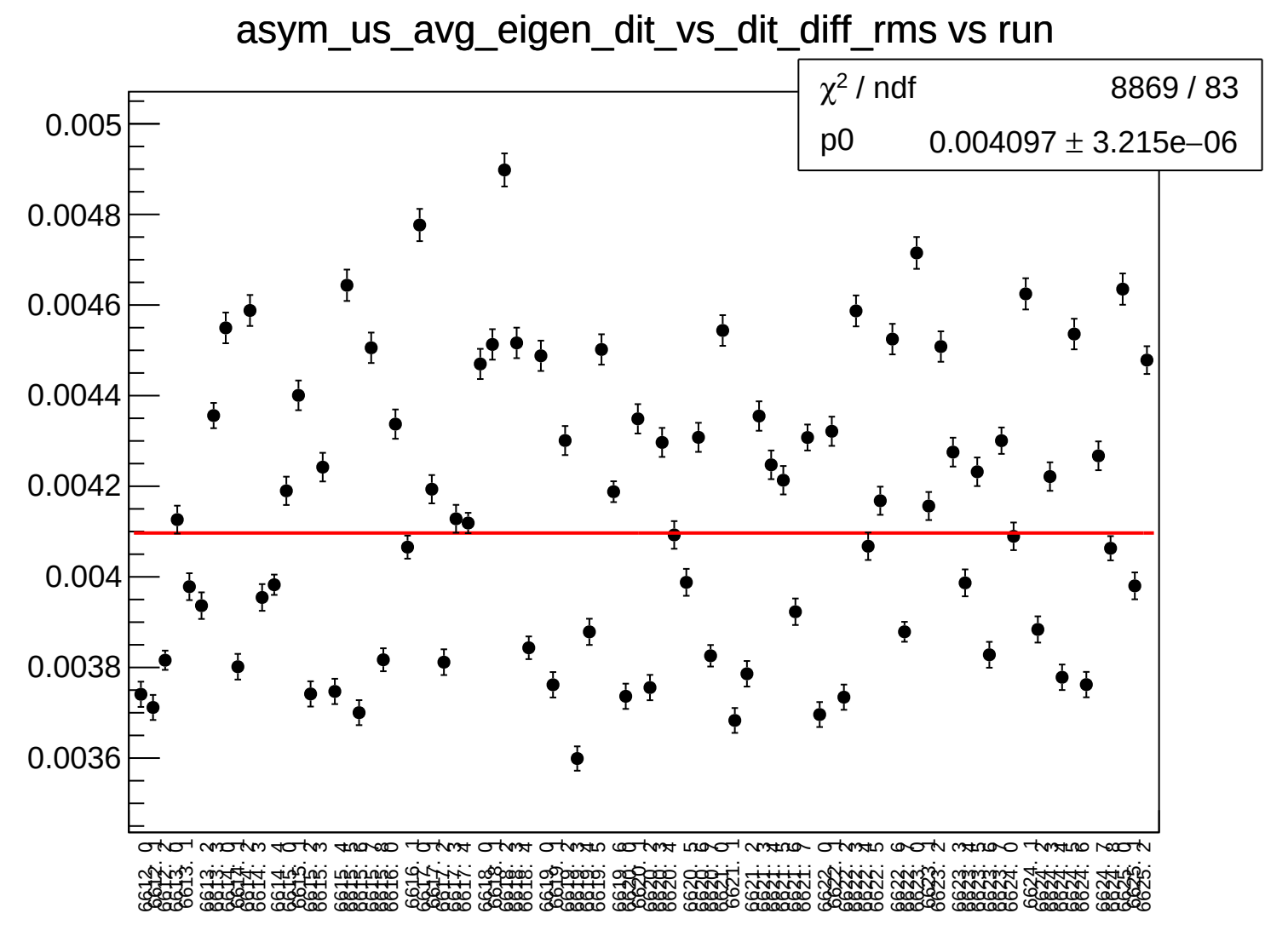

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 77.11 / 83
p0 1.005 ± 1.748
pull
Entries 84
Mean 1.542e+04
Std Dev 0

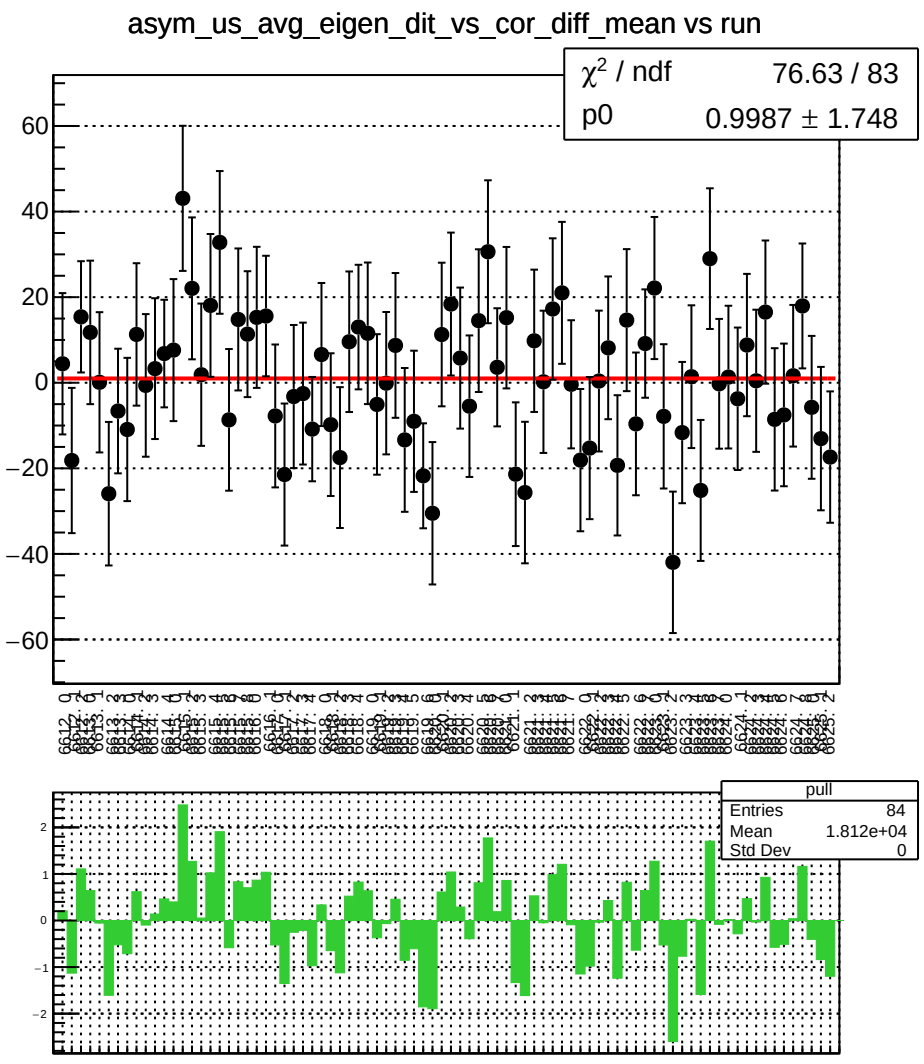

pull1D
Entries 84
Mean −0.0002068
Std Dev 0.9581

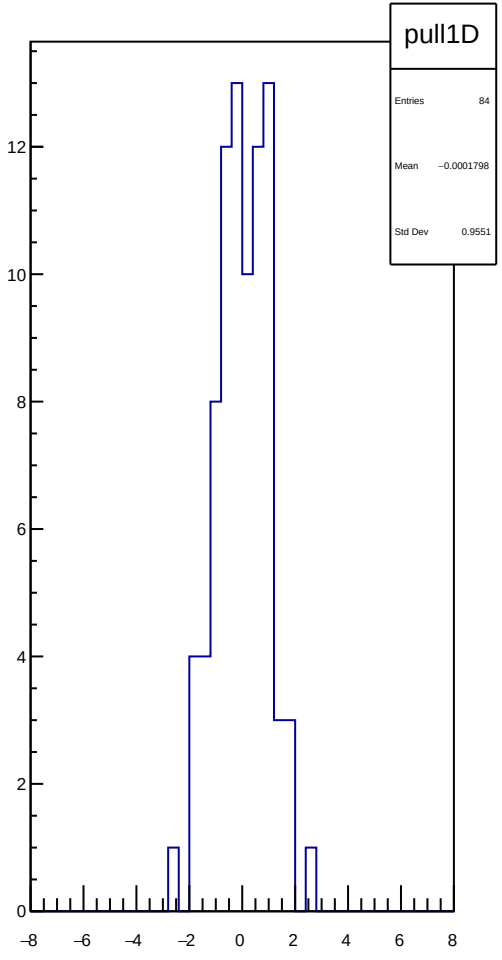

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 150 / 83
p0 1579 ± 1.236
1660
1640
1620
1600
1580
1560
1540

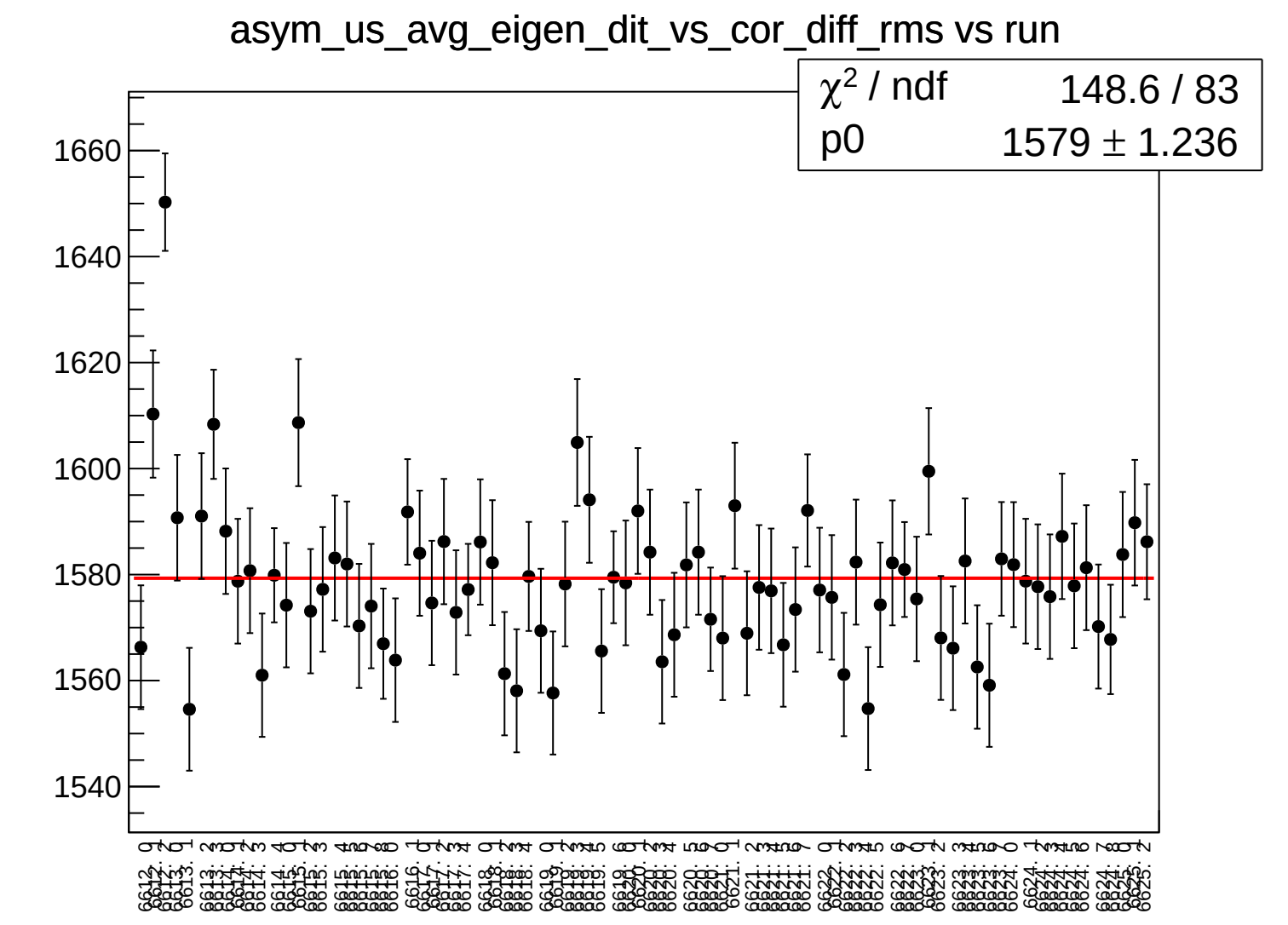

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 71.11 / 83
p0 −4.207e−06 ± 4.547e−06
×10⁻³
pull
Entries 84
Mean 126.2
Std Dev 0

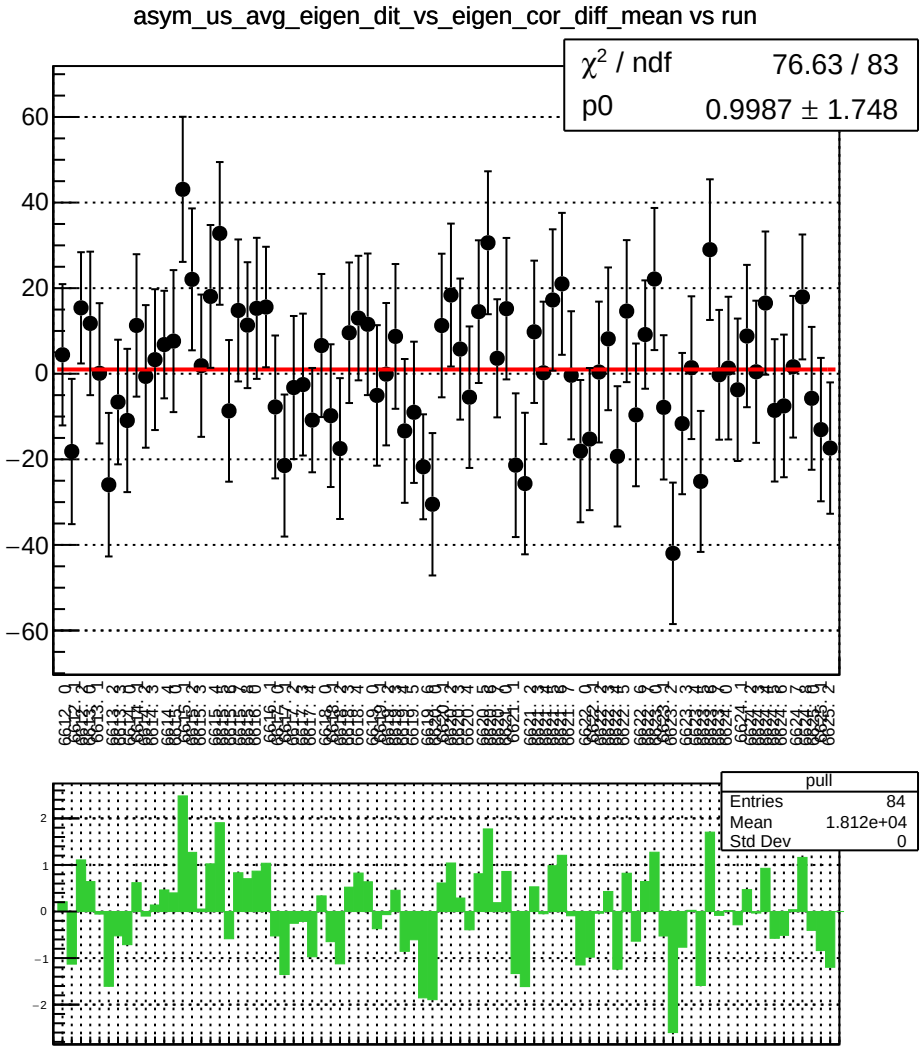

pull1D
Entries 84
Mean 0.01768
Std Dev 0.9199

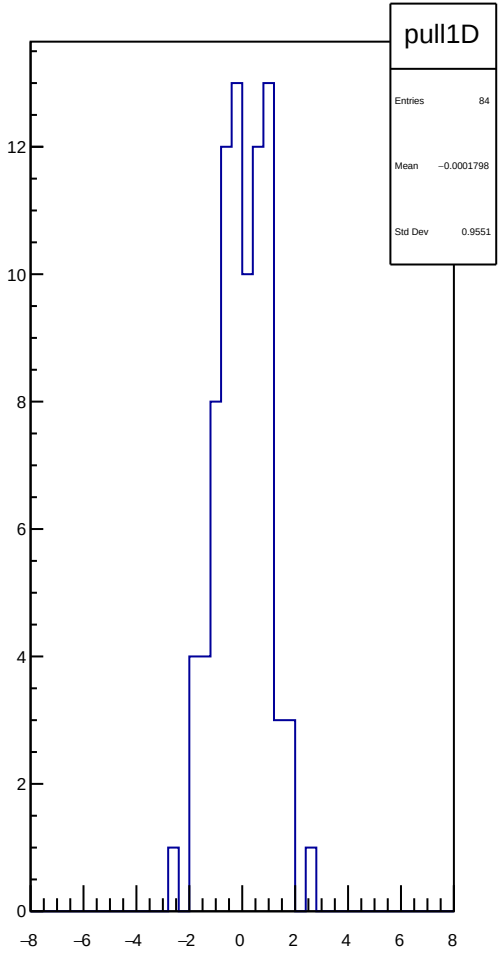

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8869 / 83
p0 0.004097 ± 3.215e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

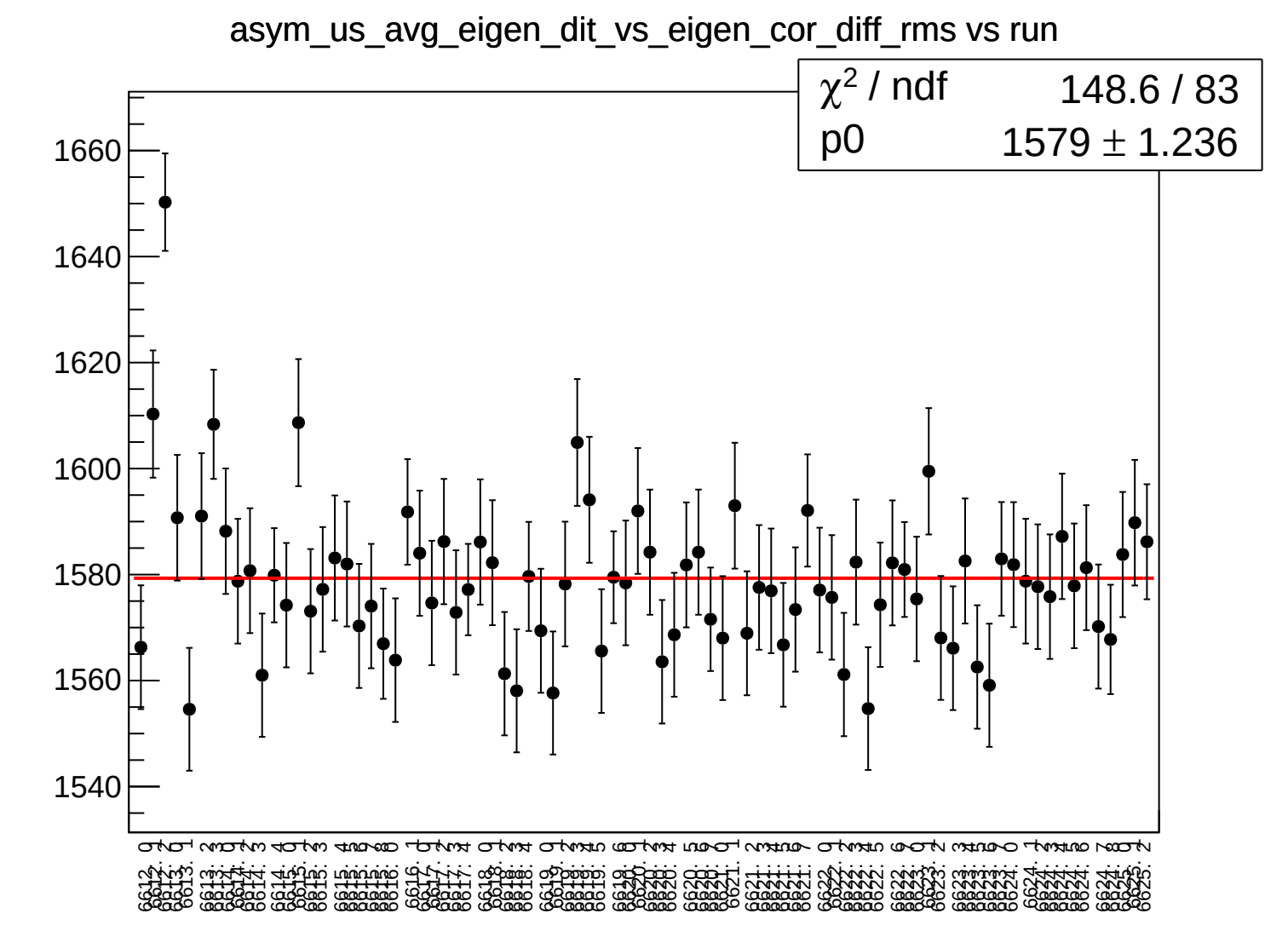

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.63 / 83
p0 0.9987 ± 1.748
pull
Entries 84
Mean 1.812e+04
Std Dev 0

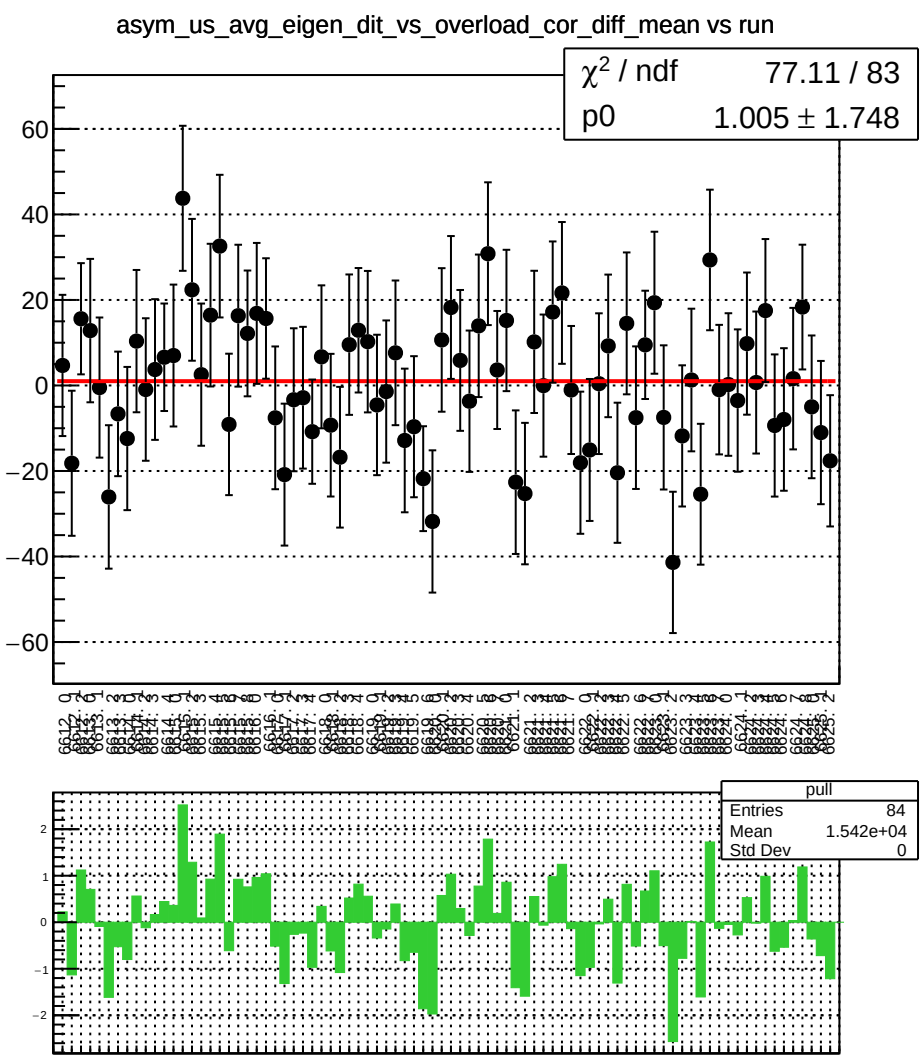

pull1D
Entries 84
Mean −0.0001798
Std Dev 0.9551

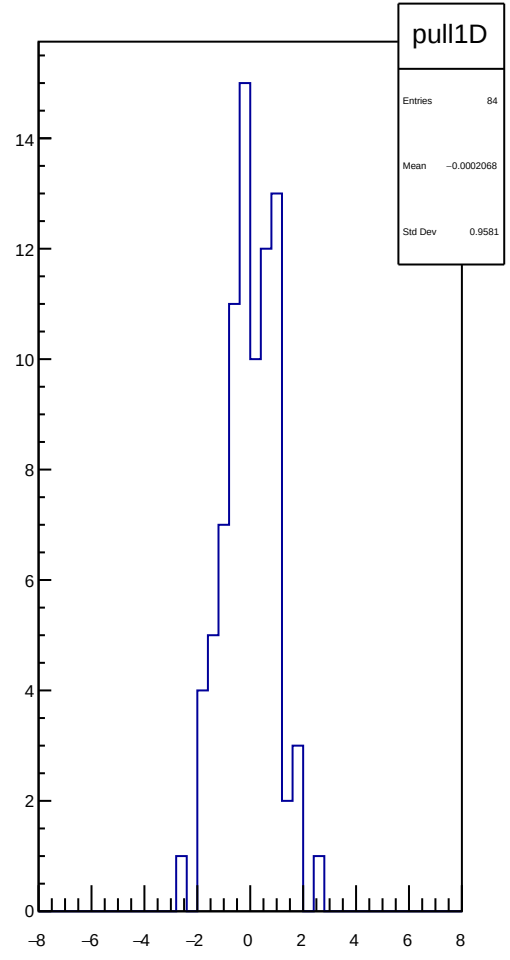

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 148.6 / 83
p0 1579 ± 1.236
1660
1640
1620
1600
1580
1560
1540

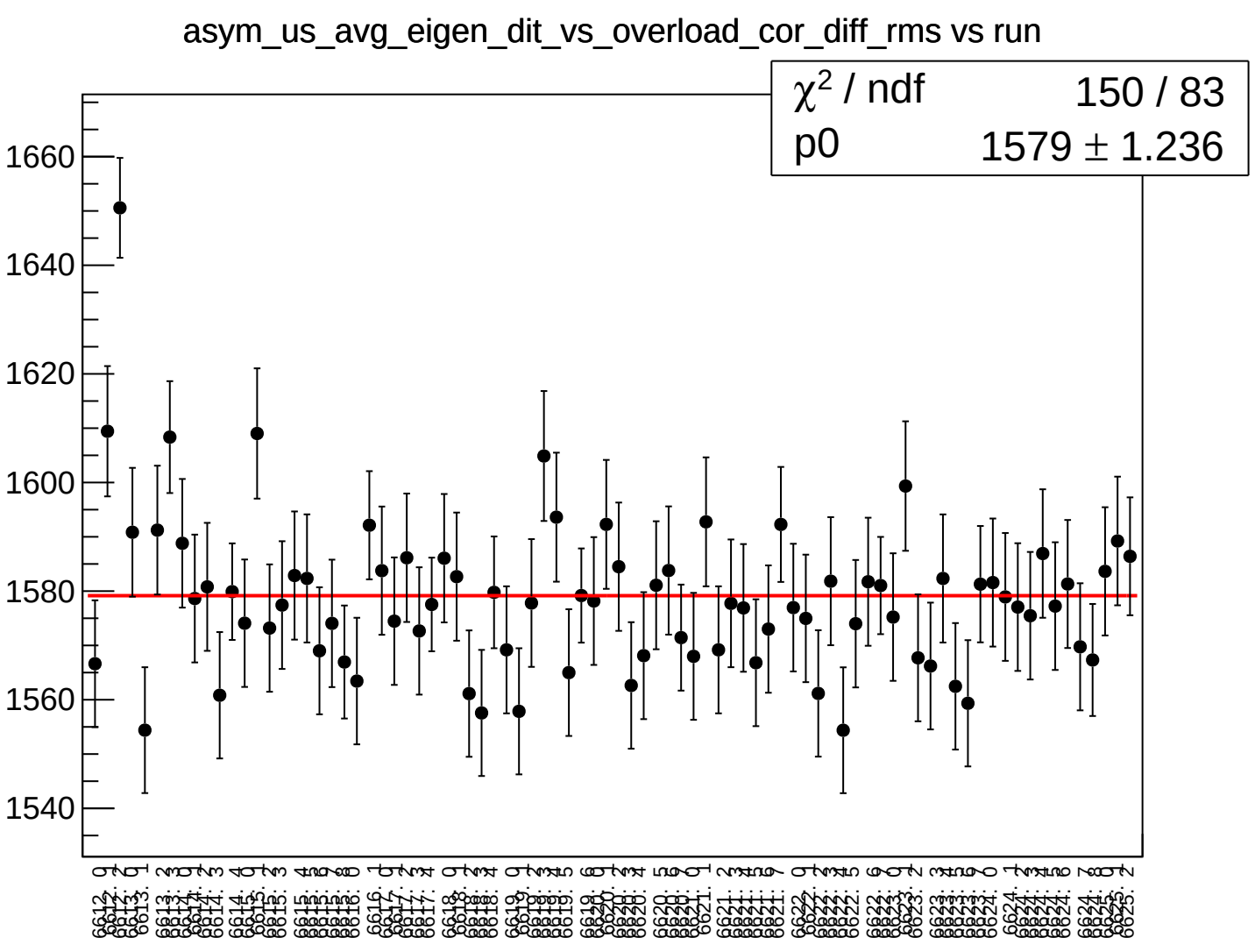

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.63 / 83
p0 0.9987 ± 1.748
pull
Entries 84
Mean 1.812e+04
Std Dev 0

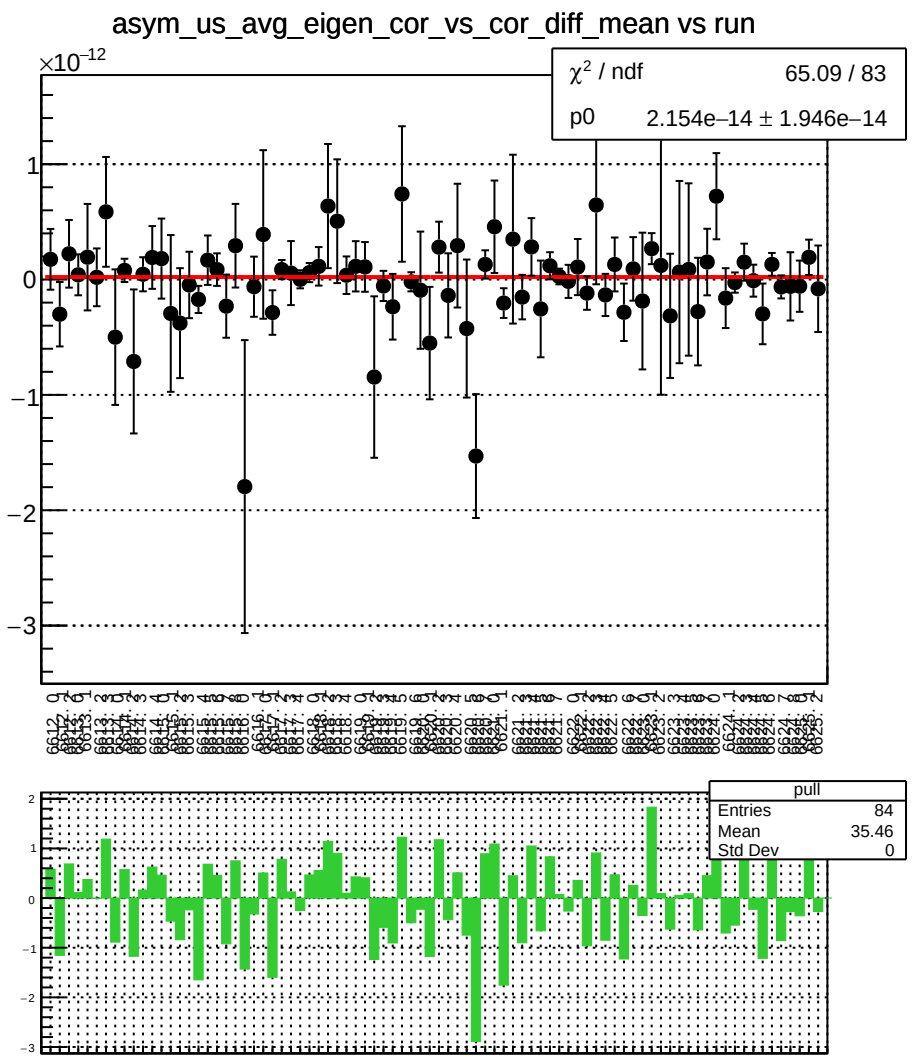

pull1D
Entries 84
Mean −0.0001798
Std Dev 0.9551

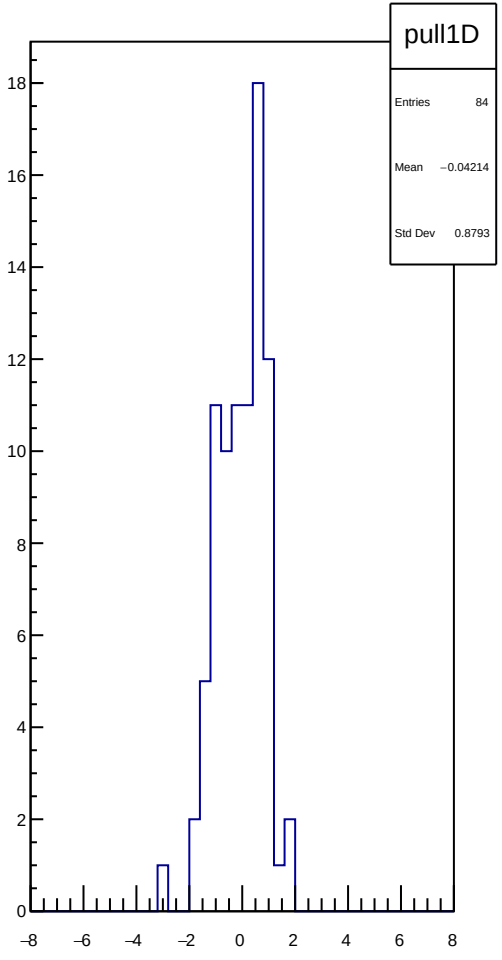

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 148.6 / 83
p0 1579 ± 1.236
1660
1640
1620
1600
1580
1560
1540

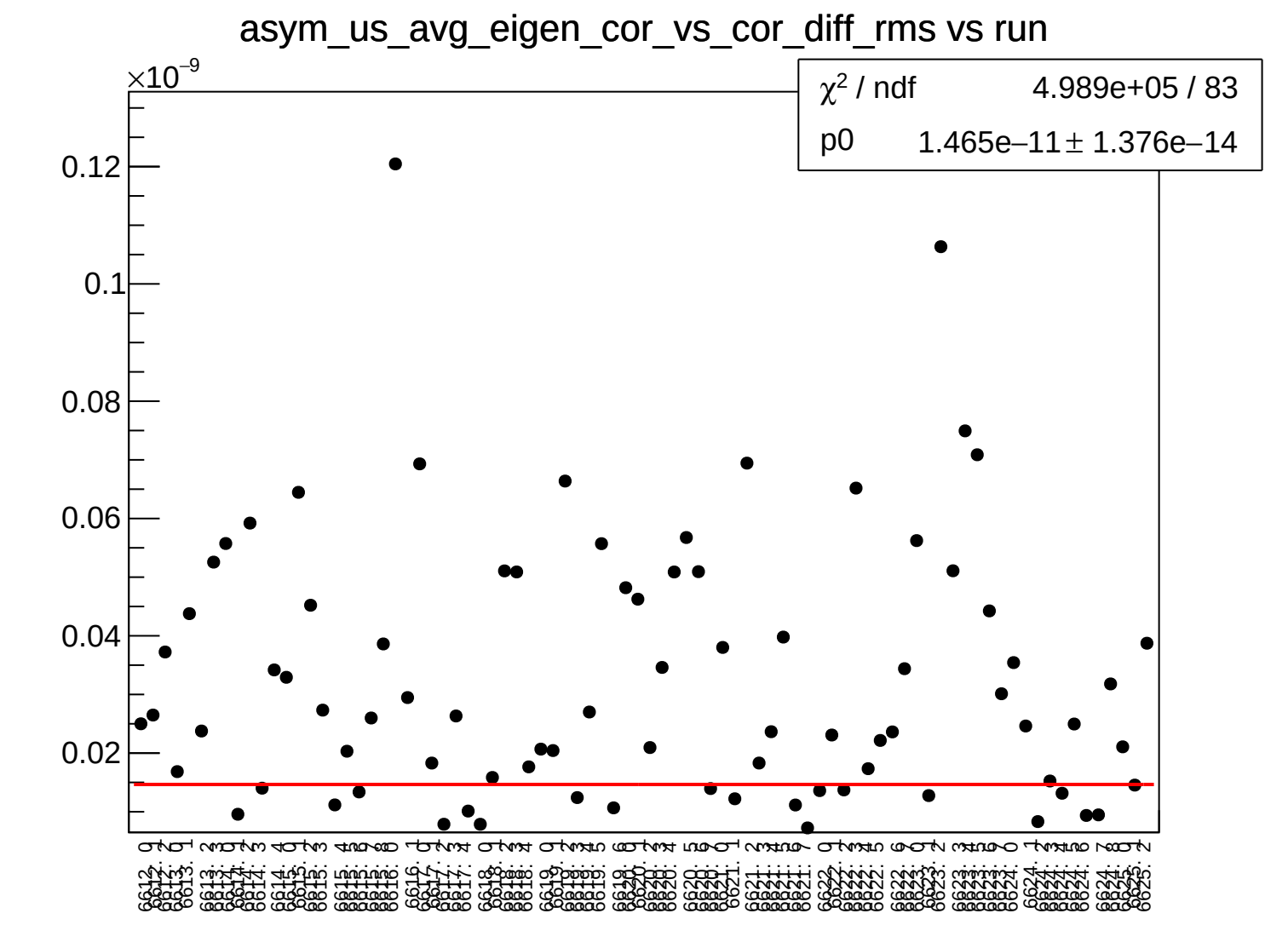

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 77.11 / 83
p0 1.005 ± 1.748
pull
Entries 84
Mean 1.542e+04
Std Dev 0

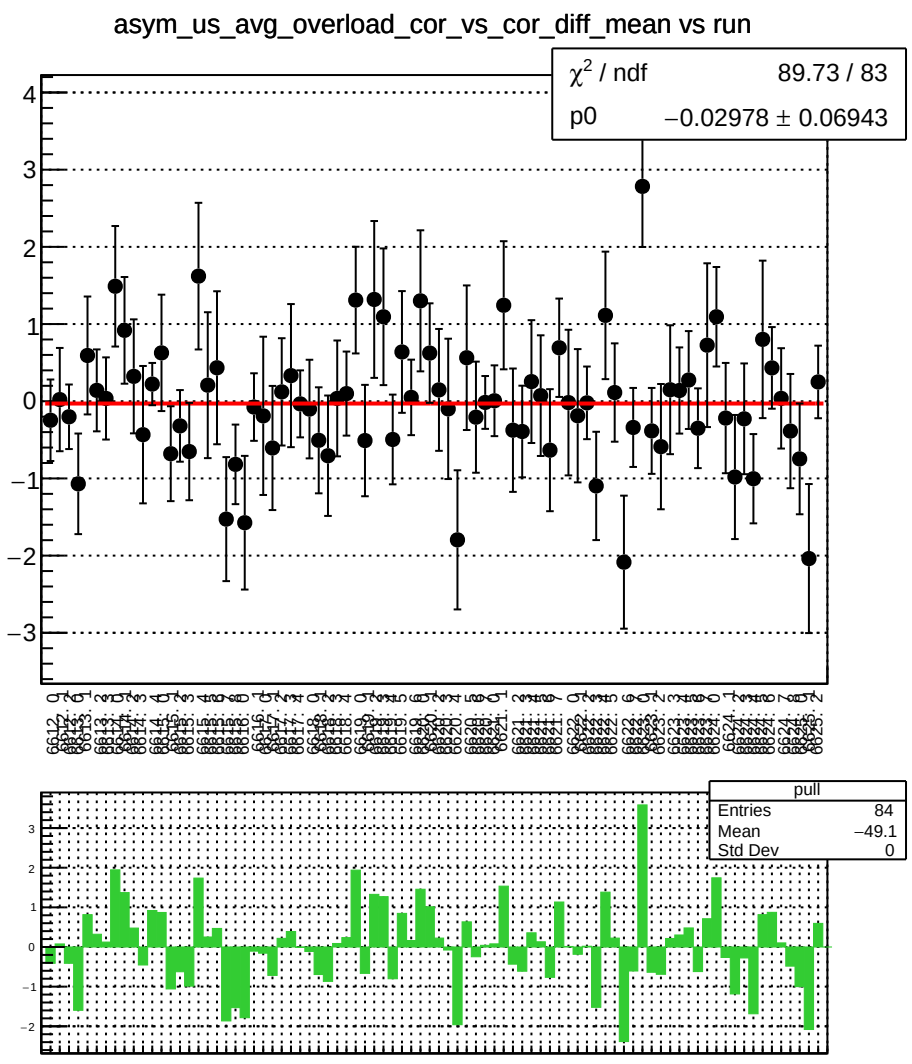

pull1D
Entries 84
Mean −0.0002068
Std Dev 0.9581

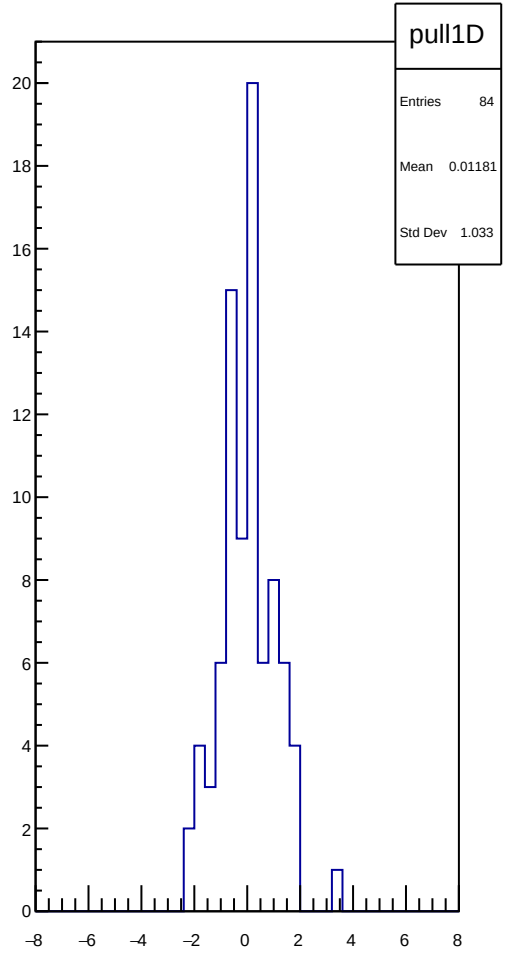

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 150 / 83
p0 1579 ± 1.236
1660
1640
1620
1600
1580
1560
1540

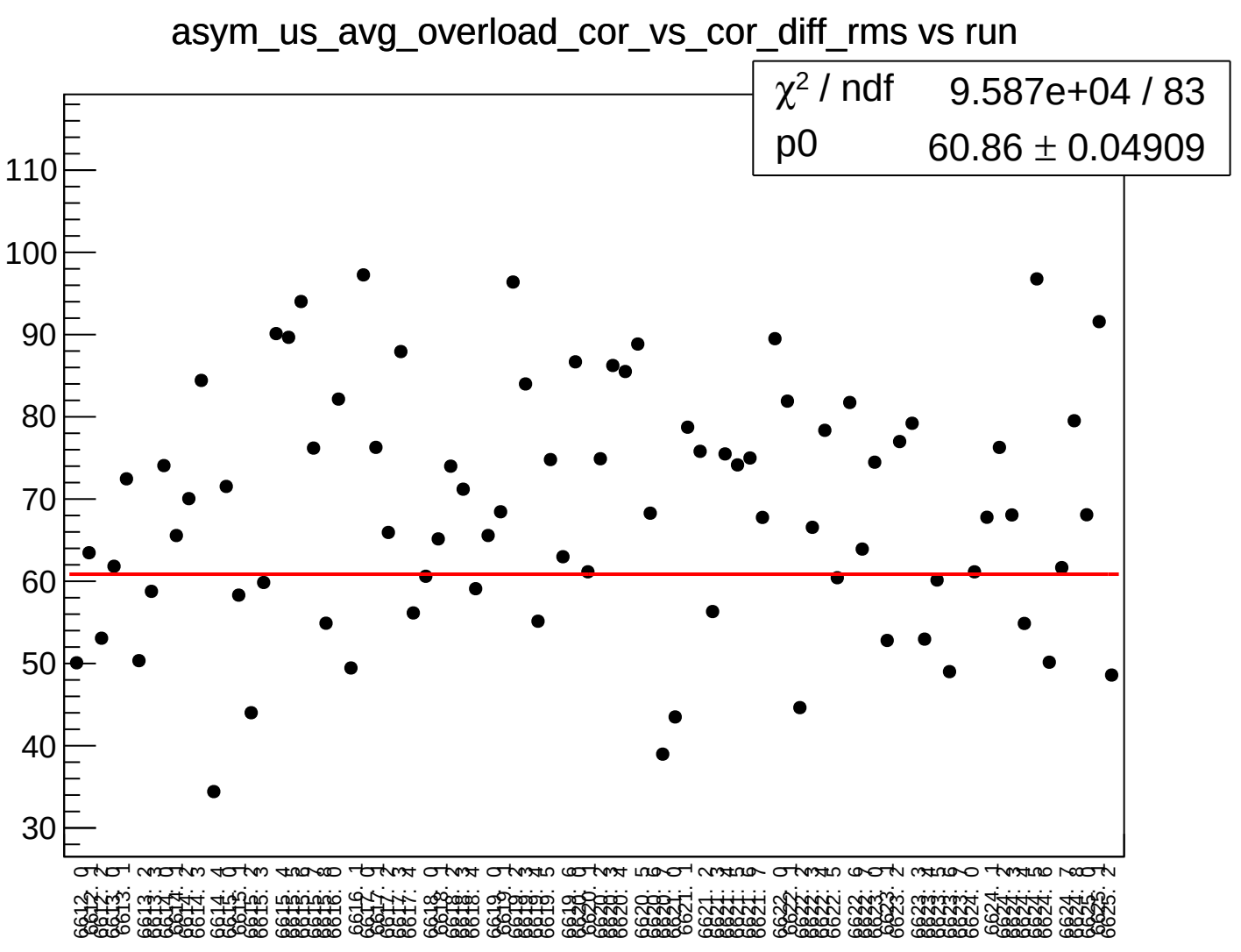

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.09 / 83
p0 2.154e−14 ± 1.946e−14
pull
Entries 84
Mean 35.46
Std Dev 0

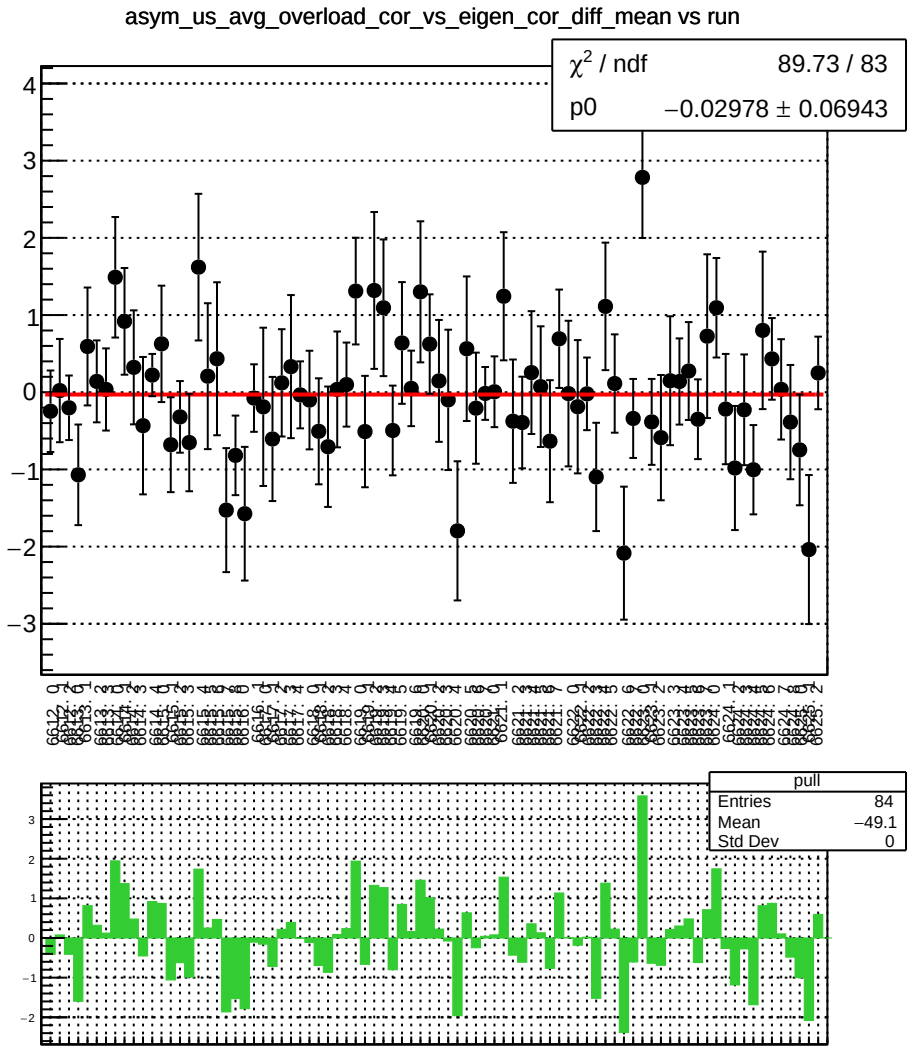

pull1D
Entries 84
Mean −0.04214
Std Dev 0.8793

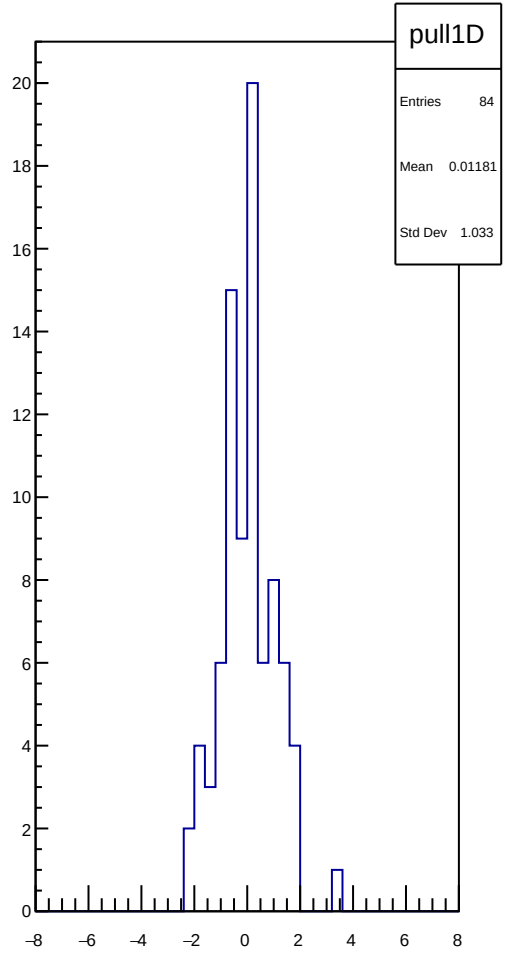

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.989e+05 / 83
p0 1.465e−11 ± 1.376e−14
0.12
0.1
0.08
0.06
0.04
0.02

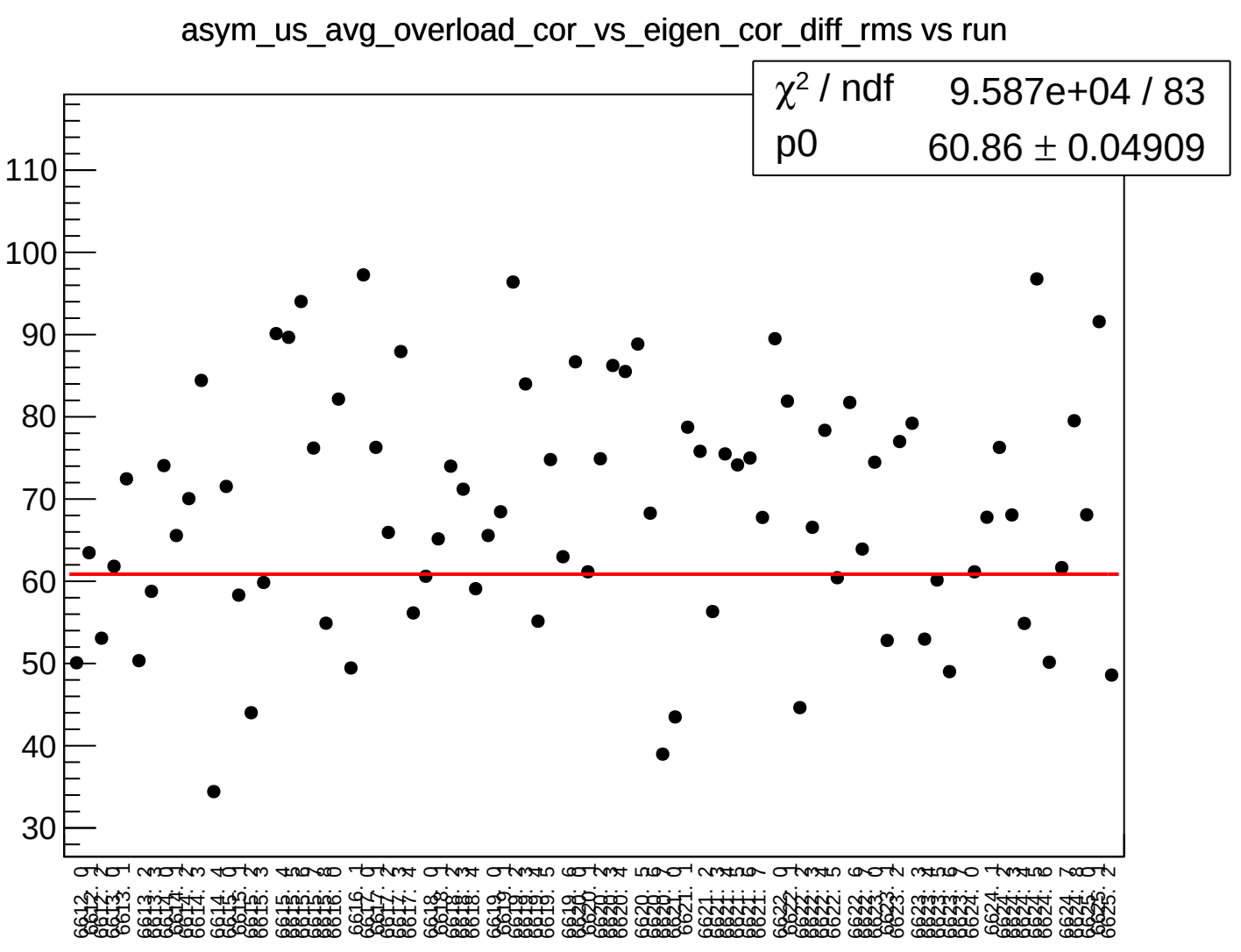

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 89.73 / 83
p0 −0.02978 ± 0.06943
pull
Entries 84
Mean −49.1
Std Dev 0

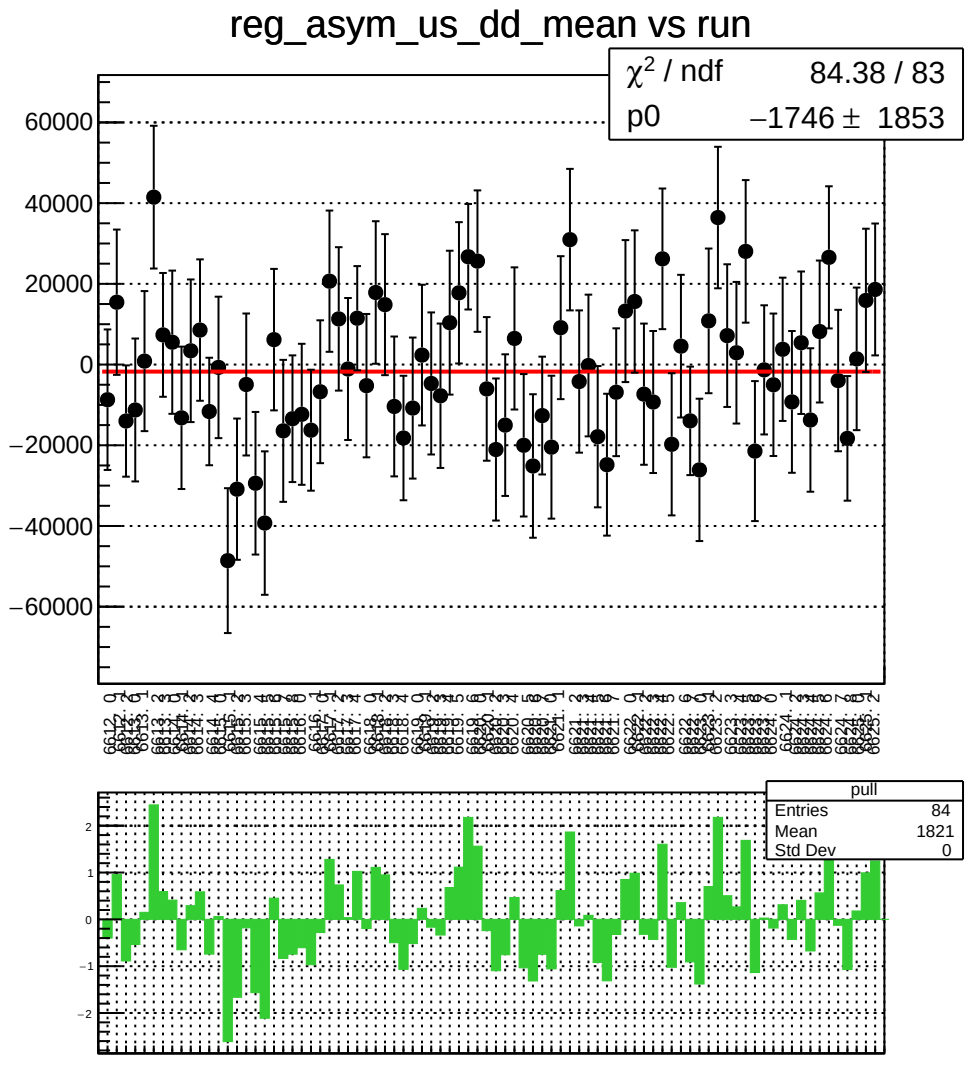

pull1D
Entries 84
Mean 0.01181
Std Dev 1.033

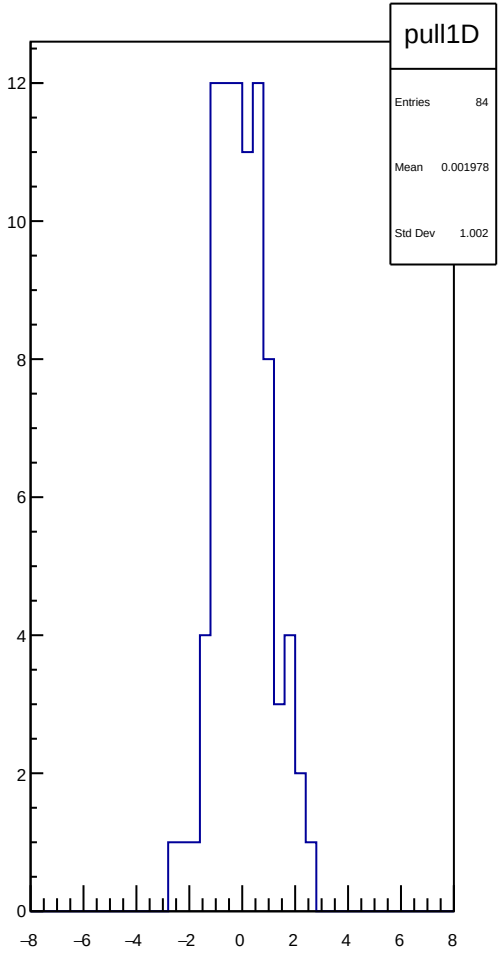

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 9.587e+04 / 83
p0 60.86 ± 0.04909
110
100
90
80
70
60
50
40
30

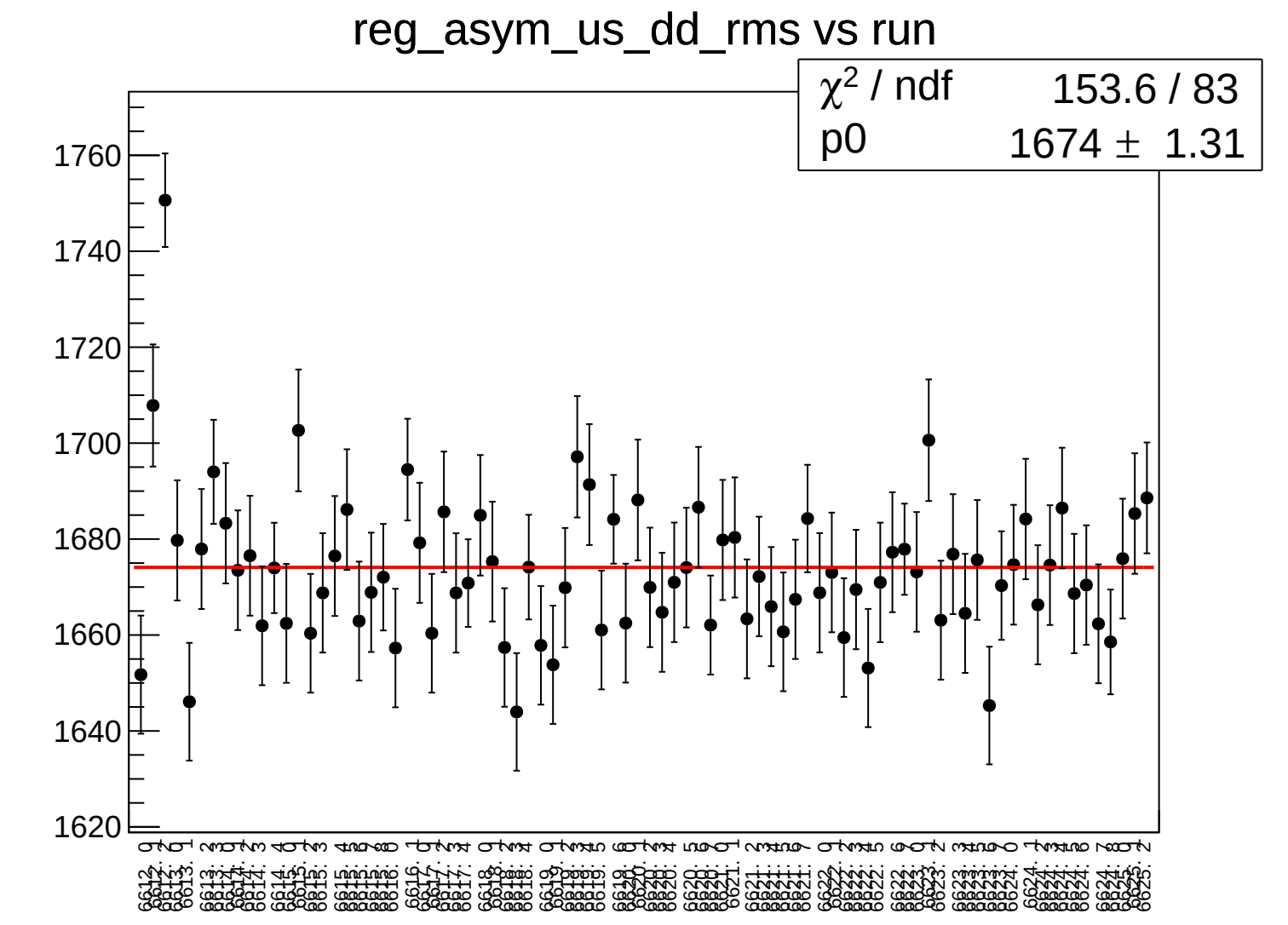

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.73 / 83
p0 −0.02978 ± 0.06943
pull
Entries 84
Mean −49.1
Std Dev 0

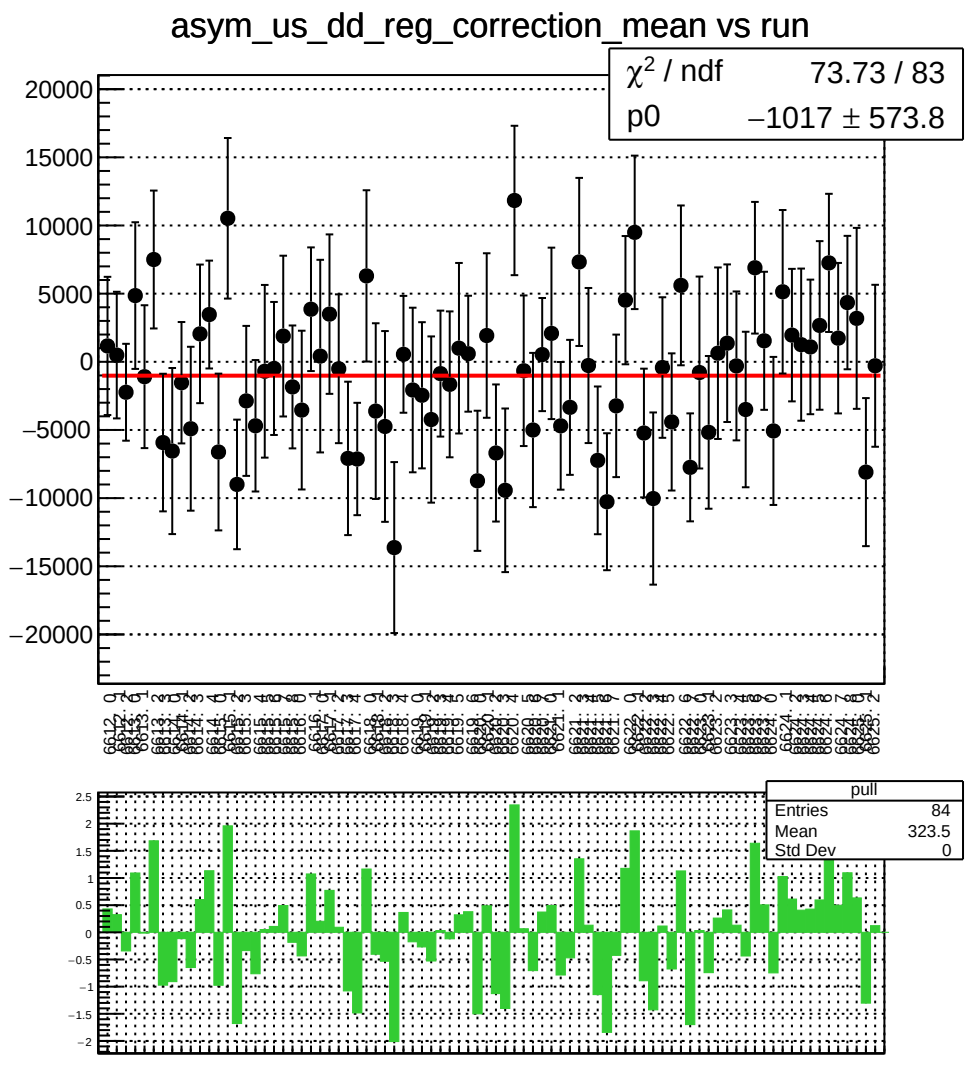

pull1D
Entries 84
Mean 0.01181
Std Dev 1.033

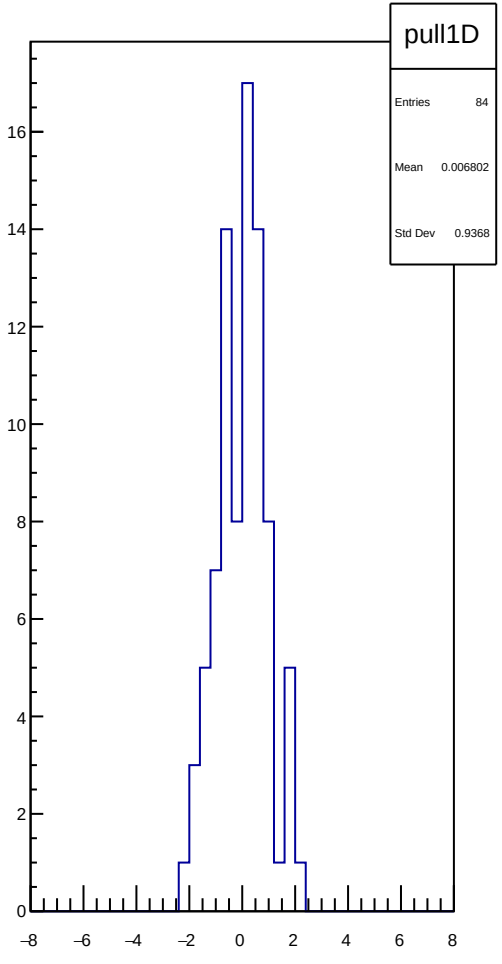

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.587e+04 / 83
p0 60.86 ± 0.04909
110
100
90
80
70
60
50
40
30

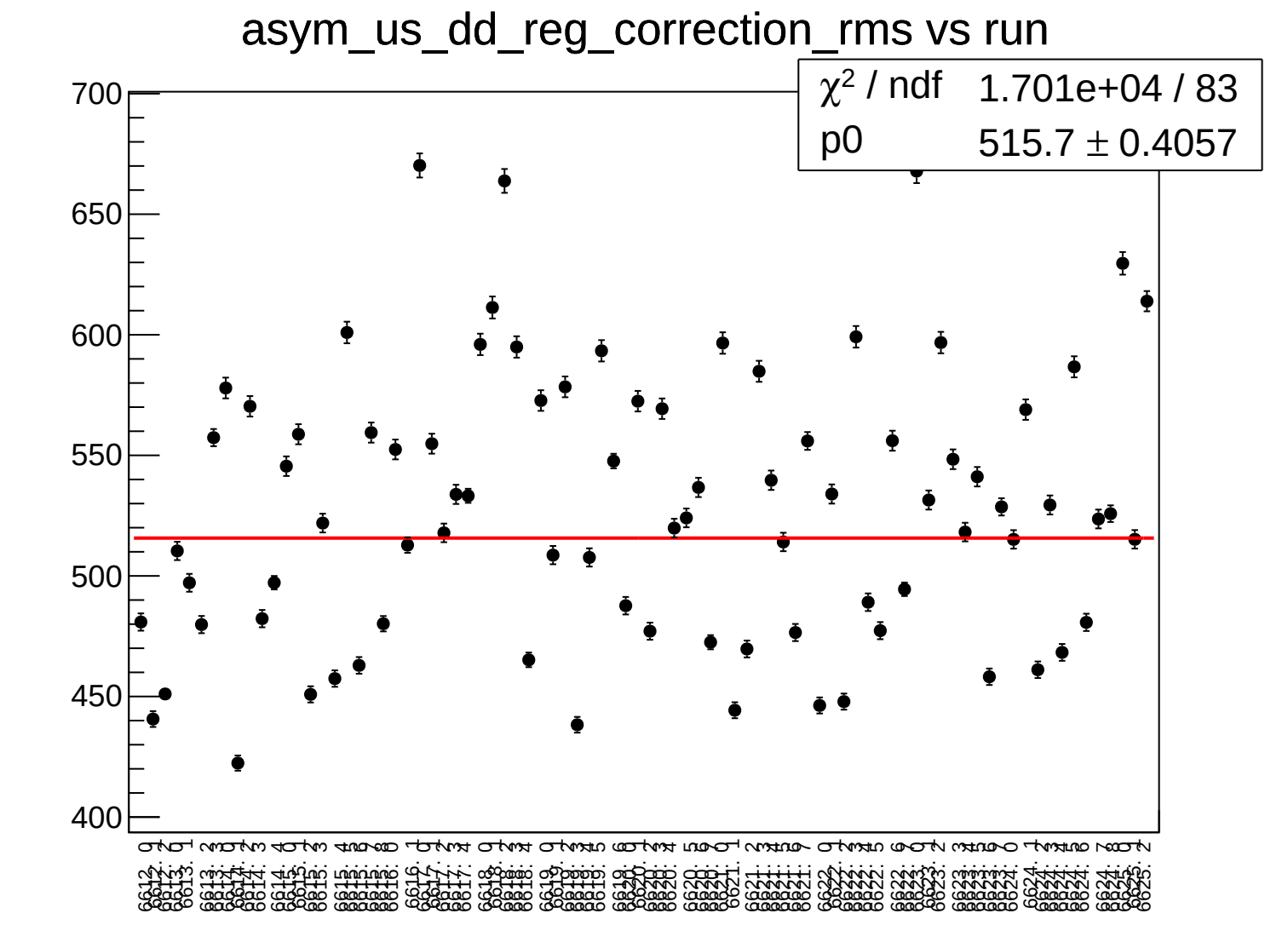

reg_asym_us_dd_mean vs run
χ² / ndf 84.38 / 83
p0 −1746 ± 1853
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1821
Std Dev 0
2
1
0
−1
−2

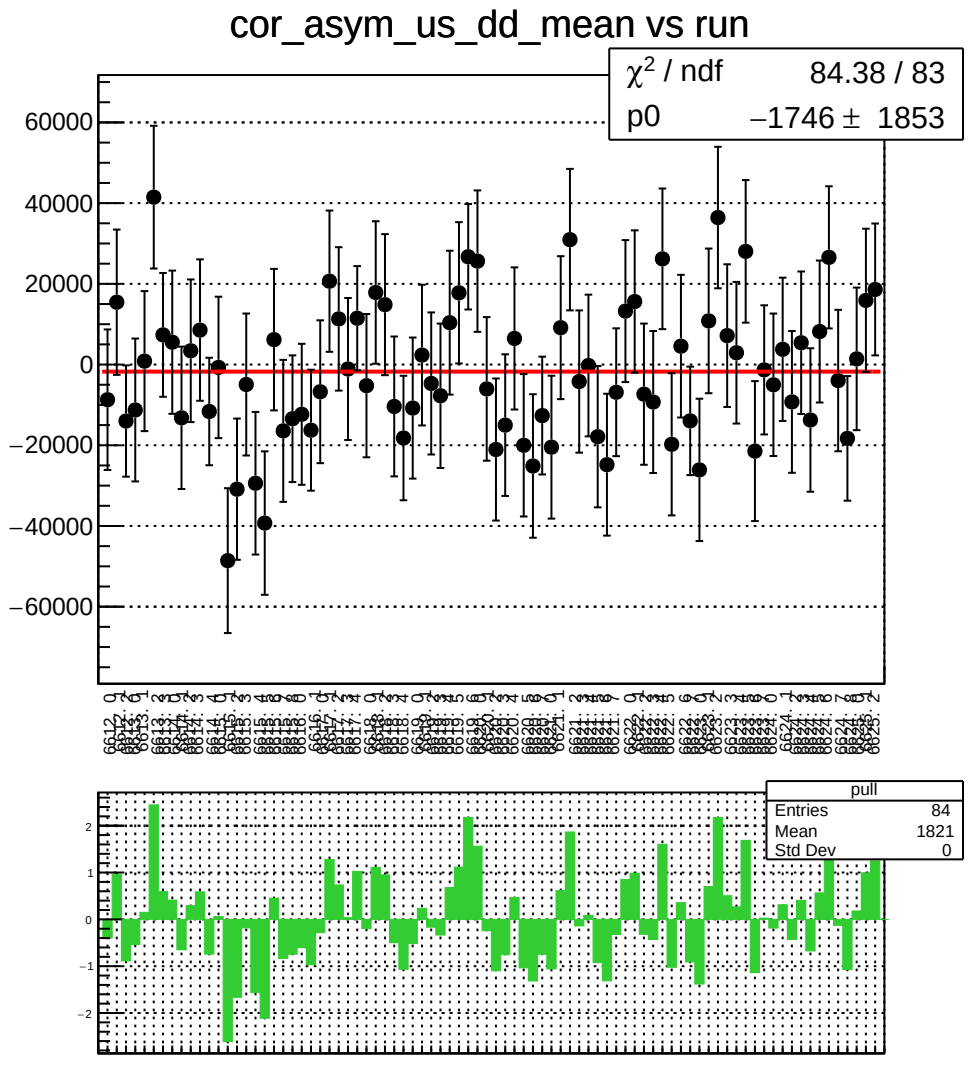

pull1D
Entries 84
Mean 0.001978
Std Dev 1.002
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

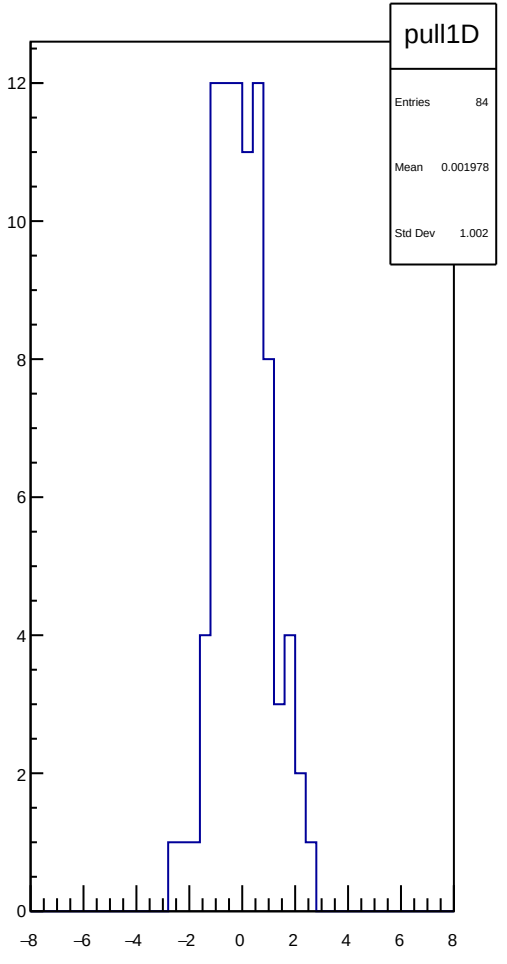

reg_asym_us_dd_rms vs run
χ² / ndf 153.6 / 83
p0 1674 ± 1.31
1760
1740
1720
1700
1680
1660
1640
1620

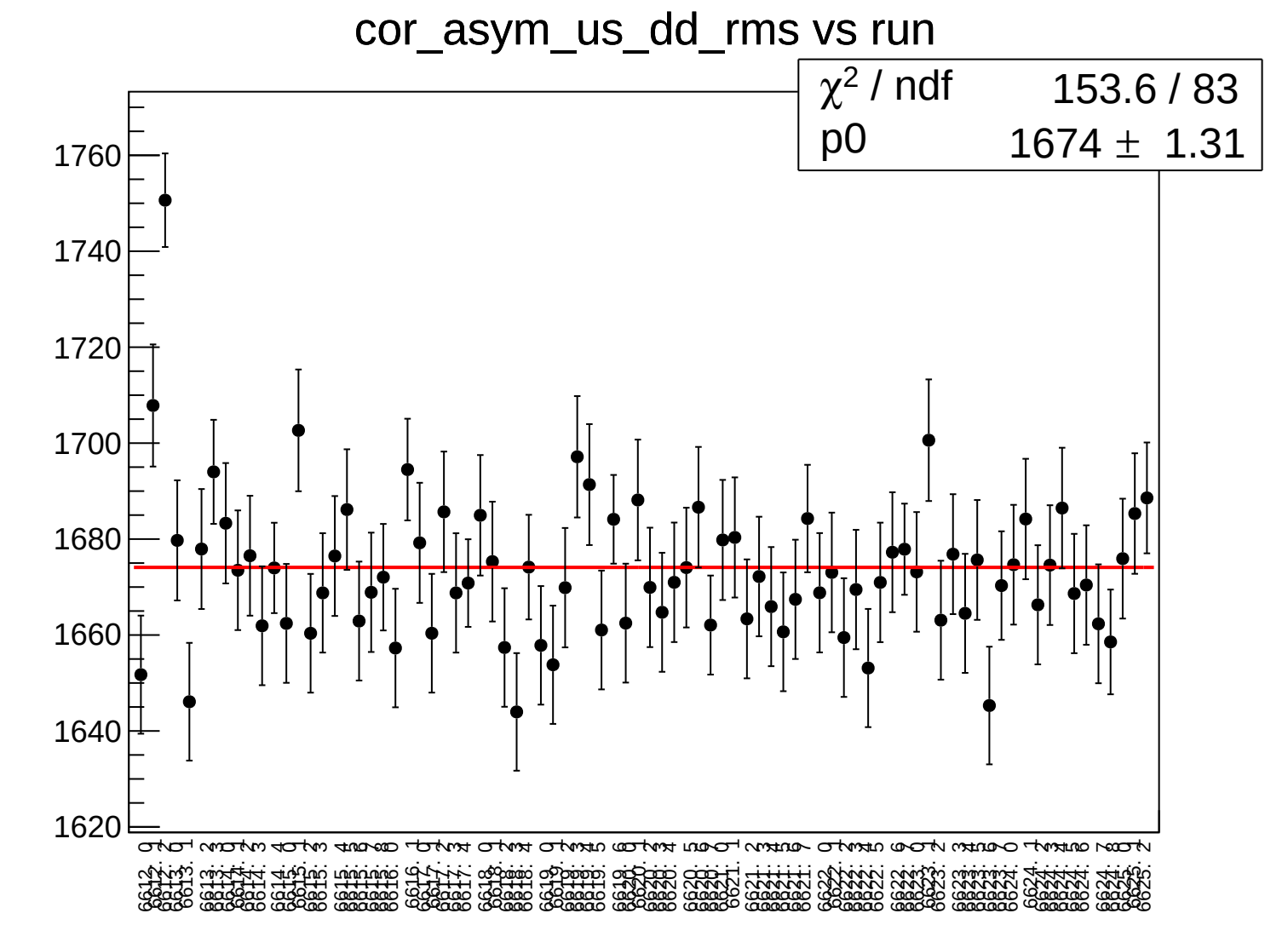

asym_us_dd_reg_correction_mean vs run
χ² / ndf 73.73 / 83
p0 −1017 ± 573.8
pull
Entries 84
Mean 323.5
Std Dev 0

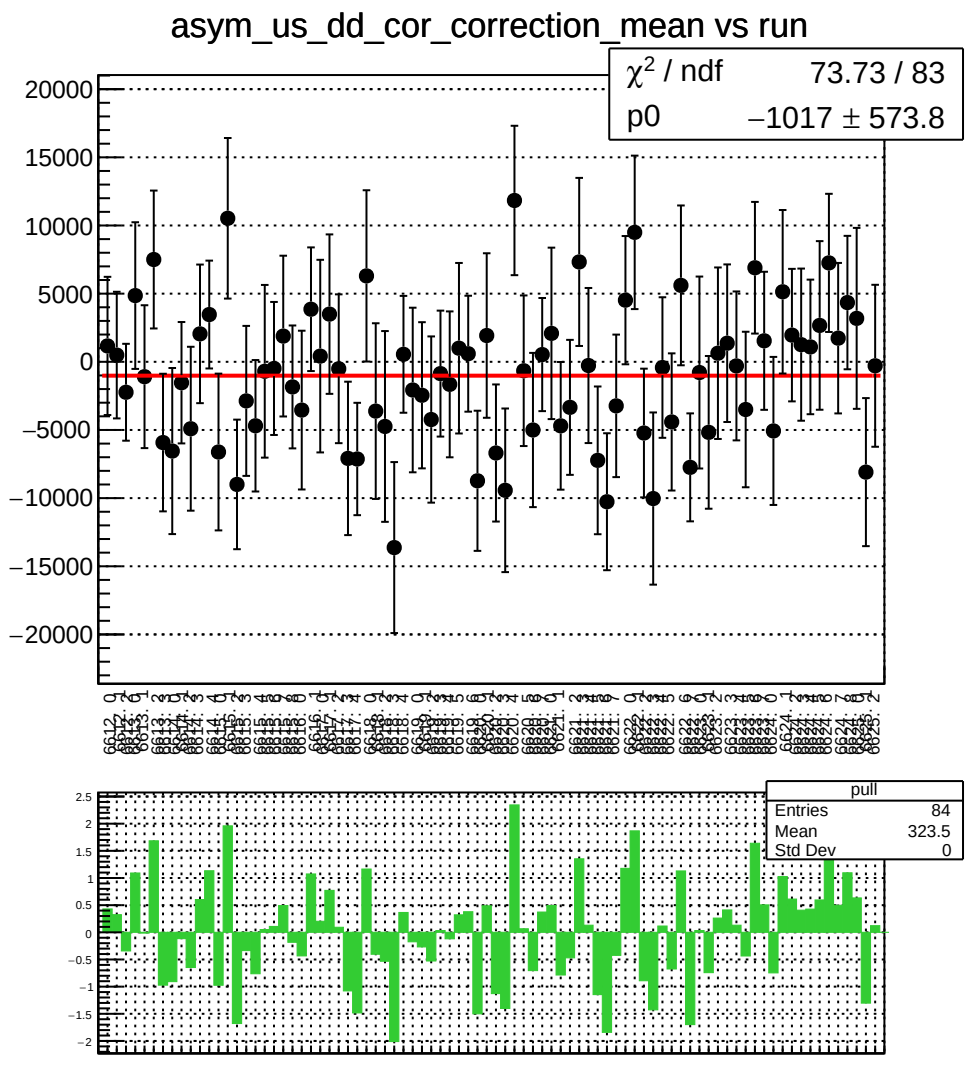

pull1D
Entries 84
Mean 0.006802
Std Dev 0.9368

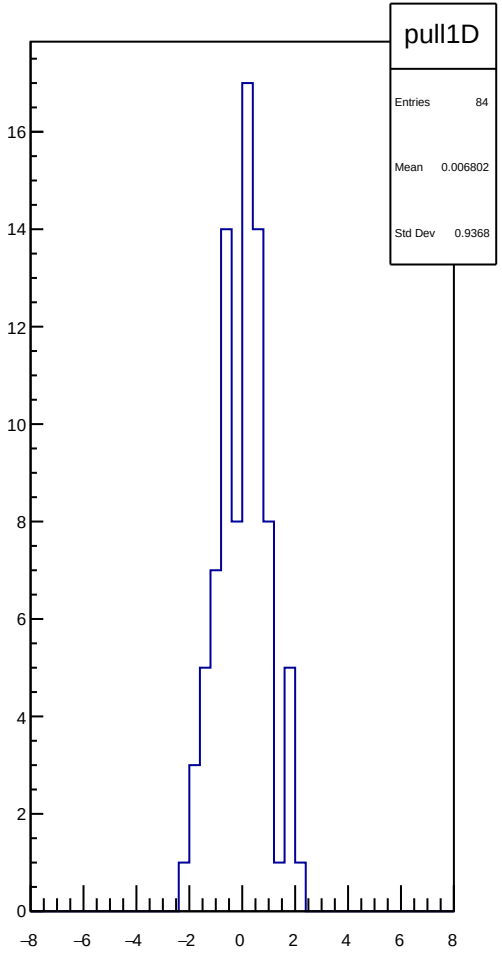

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1.701e+04 / 83
p0 515.7 ± 0.4057
700
650
600
550
500
450
400

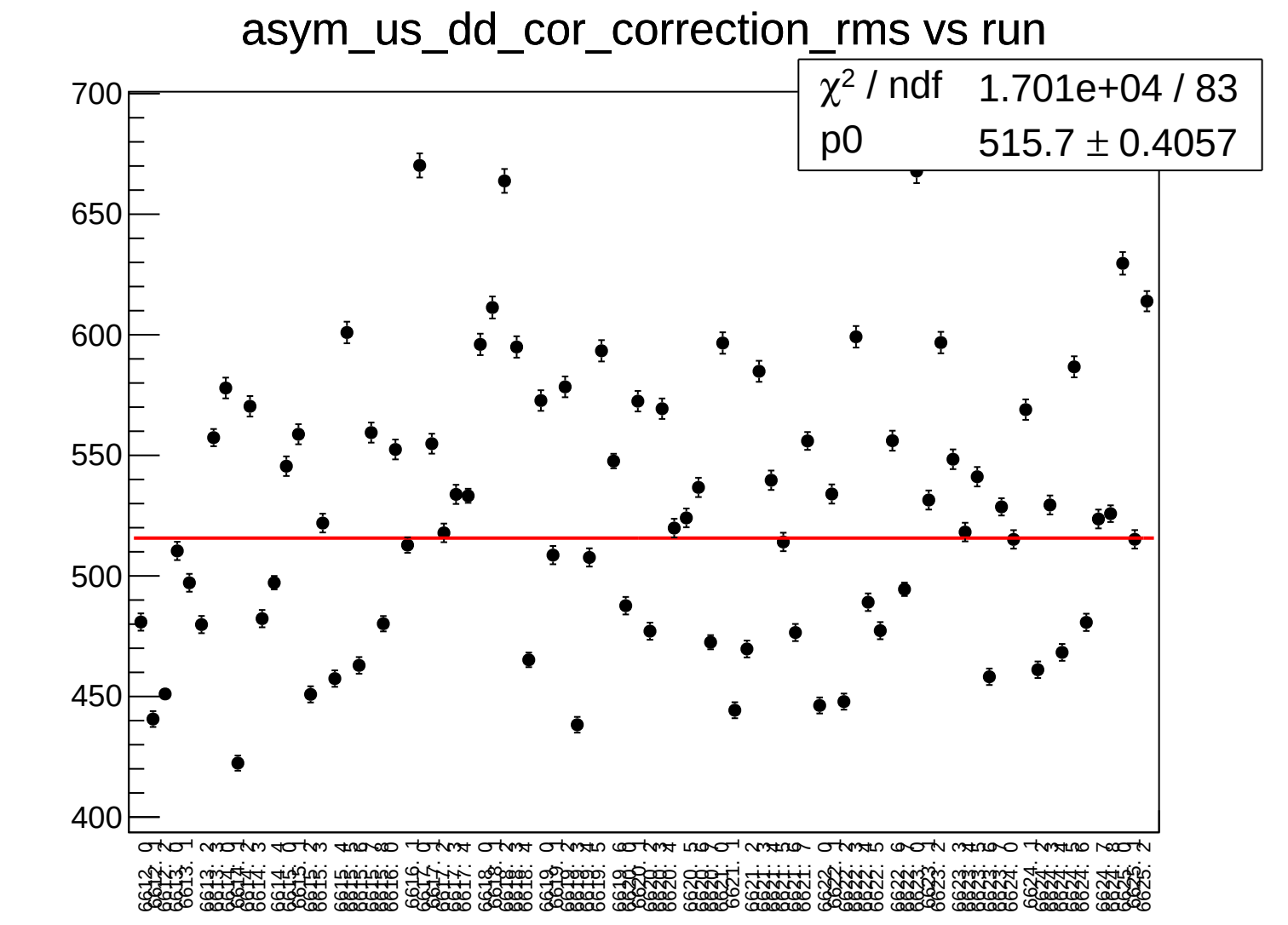

cor_asym_us_dd_mean vs run
χ² / ndf 84.38 / 83
p0 −1746 ± 1853
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1821
Std Dev 0
2
1
0
−1
−2

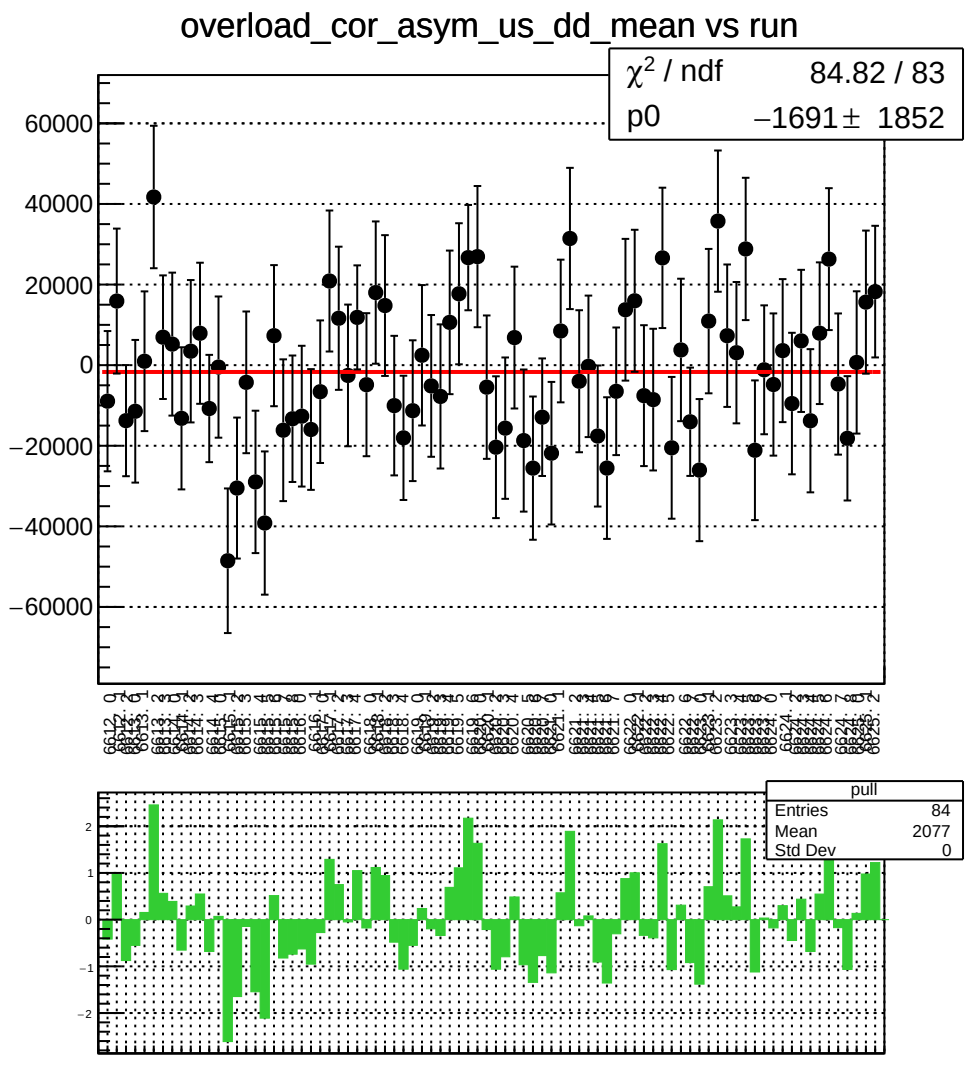

pull1D
Entries 84
Mean 0.001978
Std Dev 1.002
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

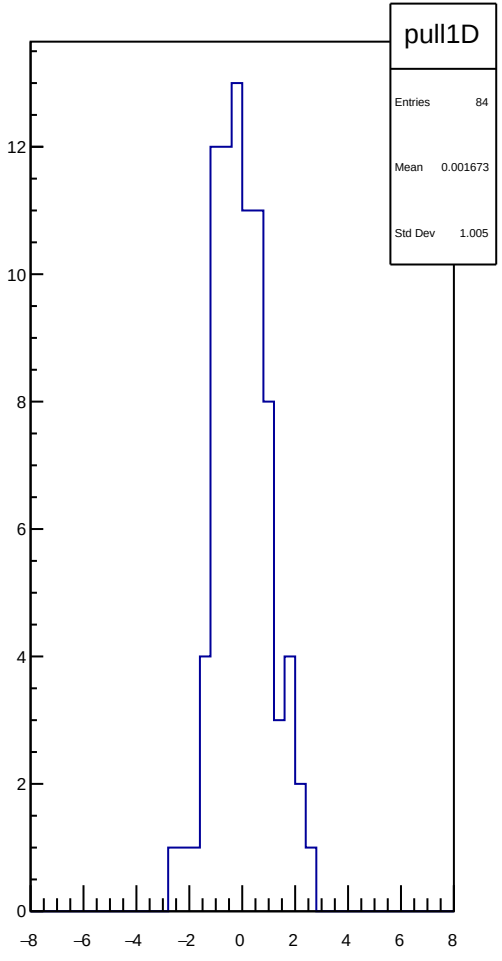

cor_asym_us_dd_rms vs run
χ² / ndf 153.6 / 83
p0 1674 ± 1.31
1760
1740
1720
1700
1680
1660
1640
1620

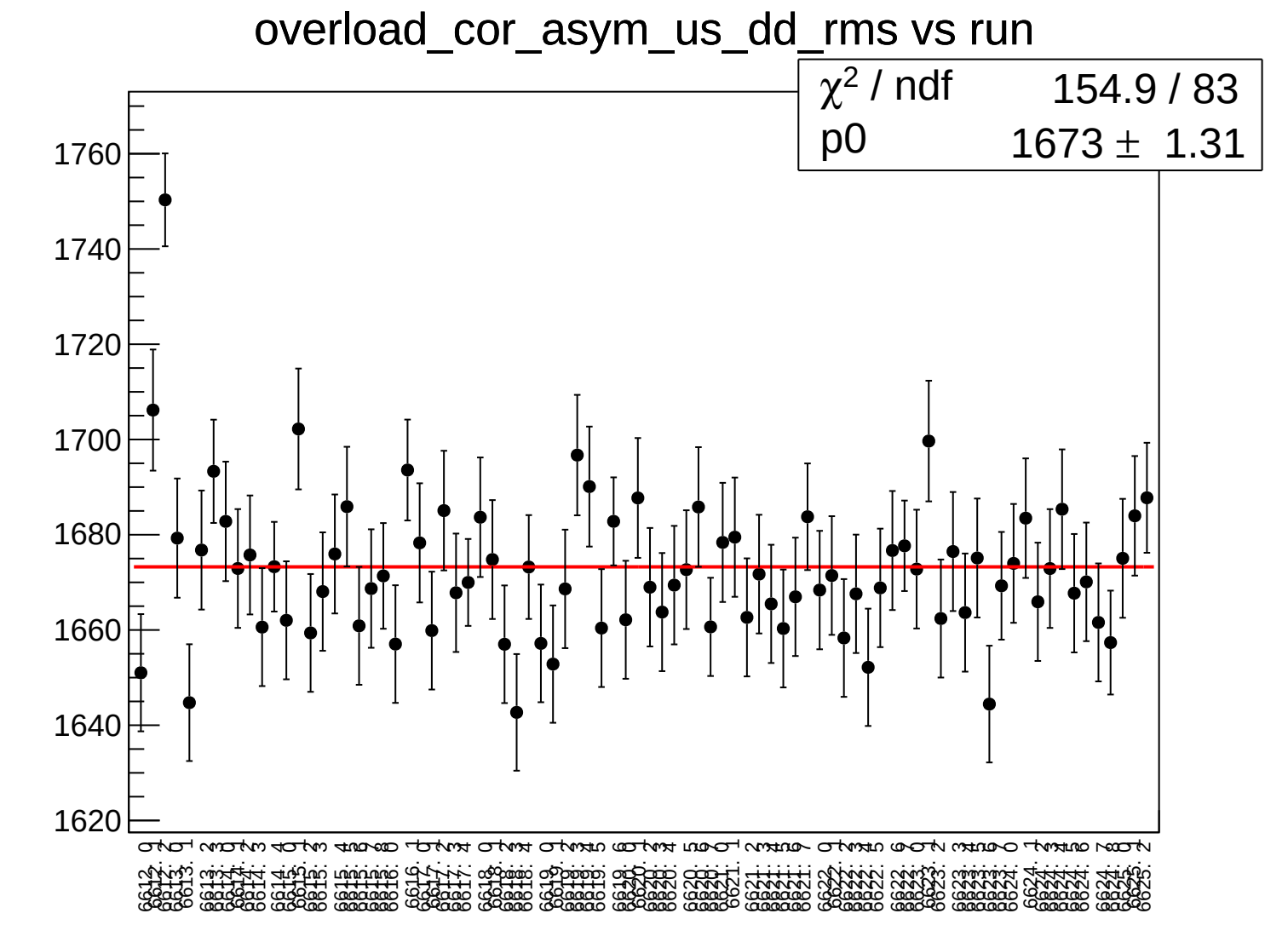

asym_us_dd_cor_correction_mean vs run
χ² / ndf 73.73 / 83
p0 −1017 ± 573.8
pull
Entries 84
Mean 323.5
Std Dev 0

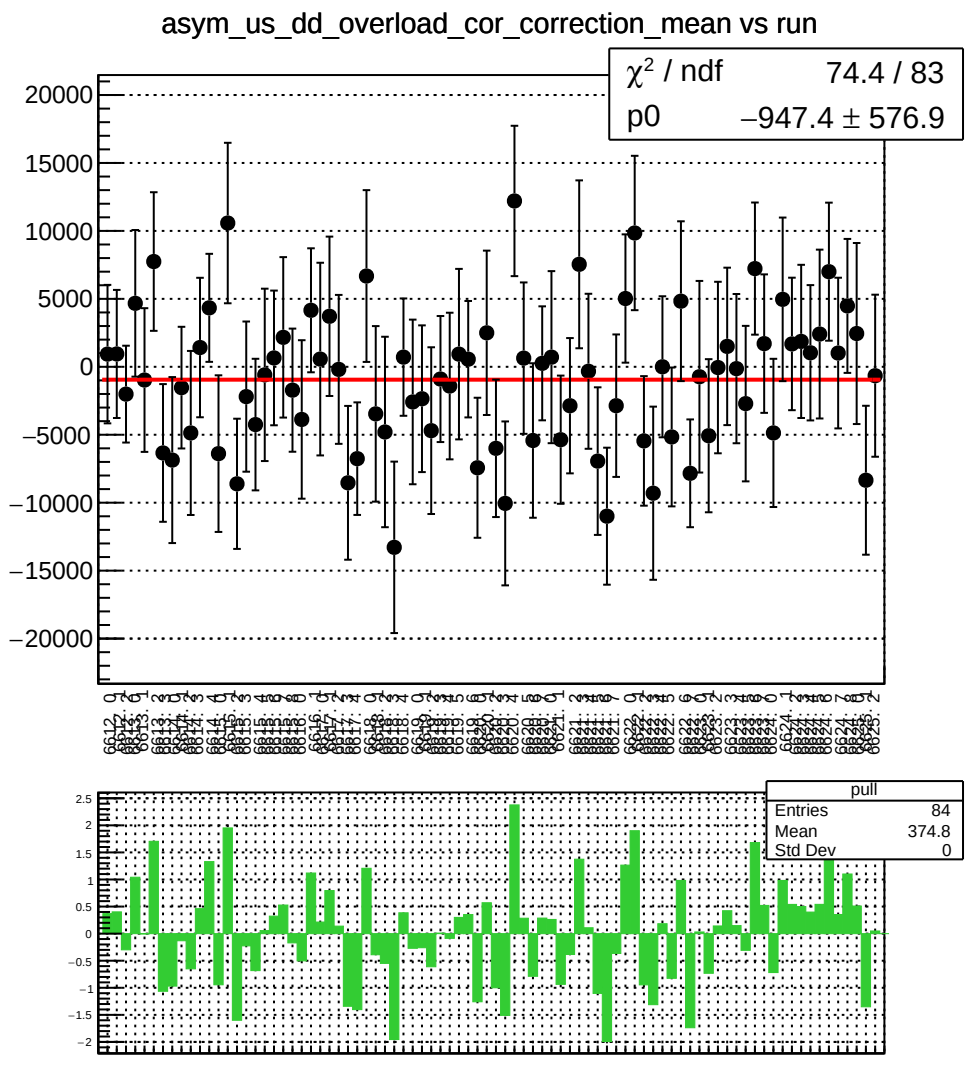

pull1D
Entries 84
Mean 0.006802
Std Dev 0.9368

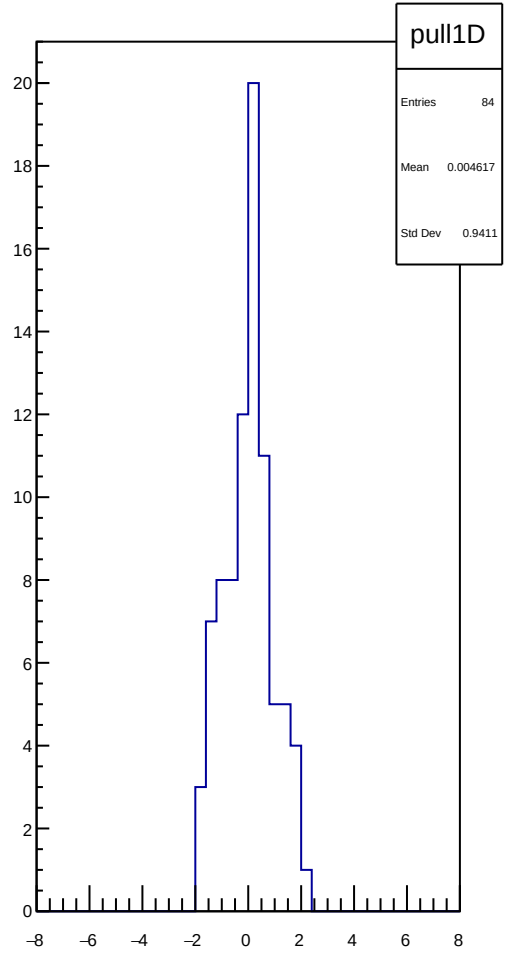

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1.701e+04 / 83
p0 515.7 ± 0.4057
700
650
600
550
500
450
400

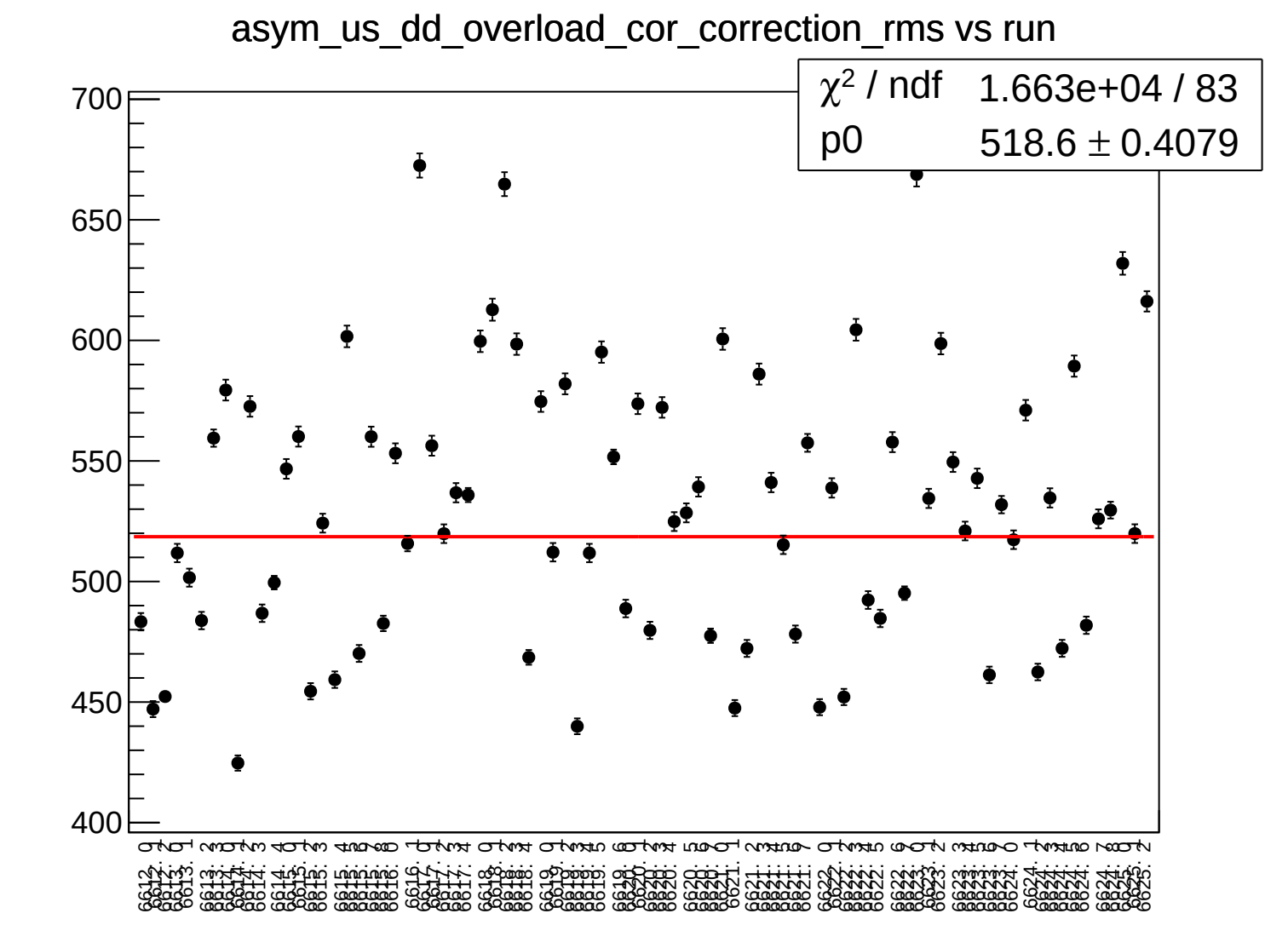

overload_cor_asym_us_dd_mean vs run
χ² / ndf 84.82 / 83
p0 −1691 ± 1852
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 2077
Std Dev 0
2
1
0
−1
−2

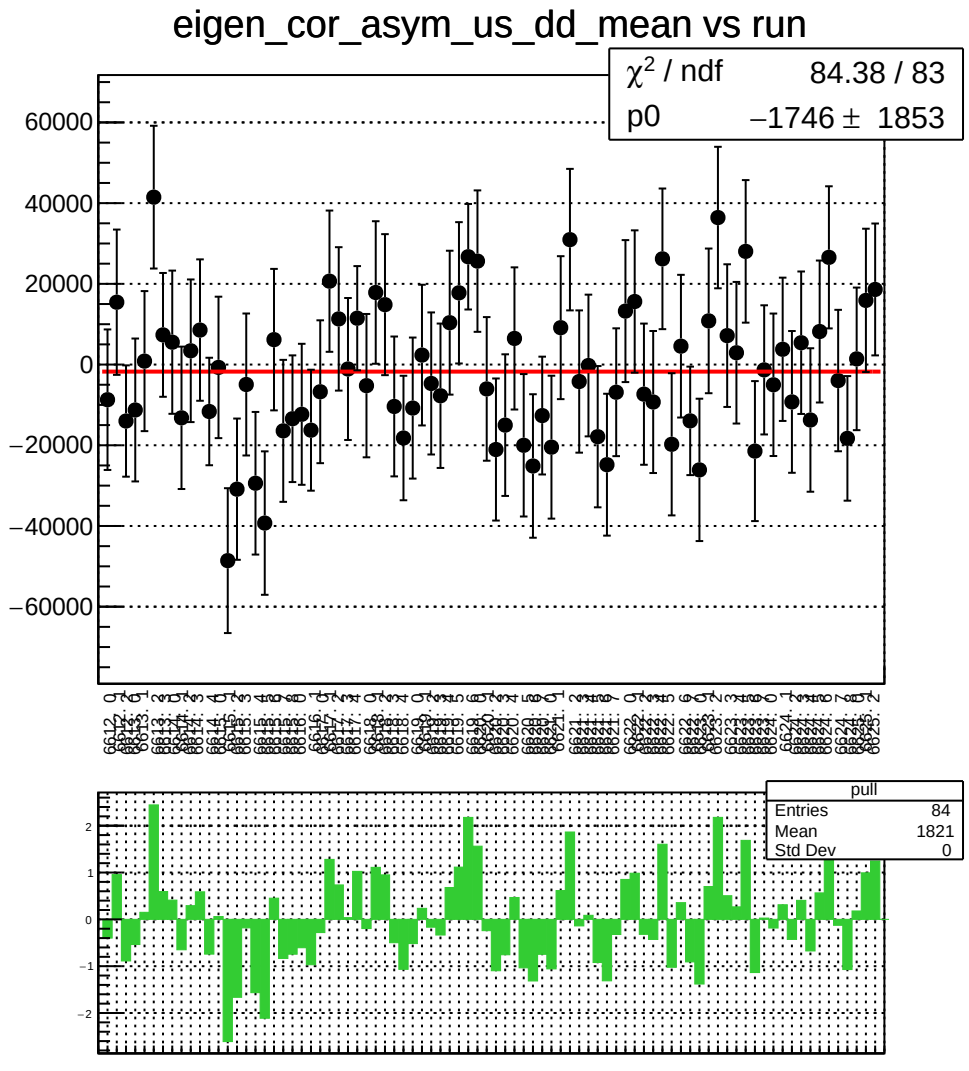

pull1D
Entries 84
Mean 0.001673
Std Dev 1.005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

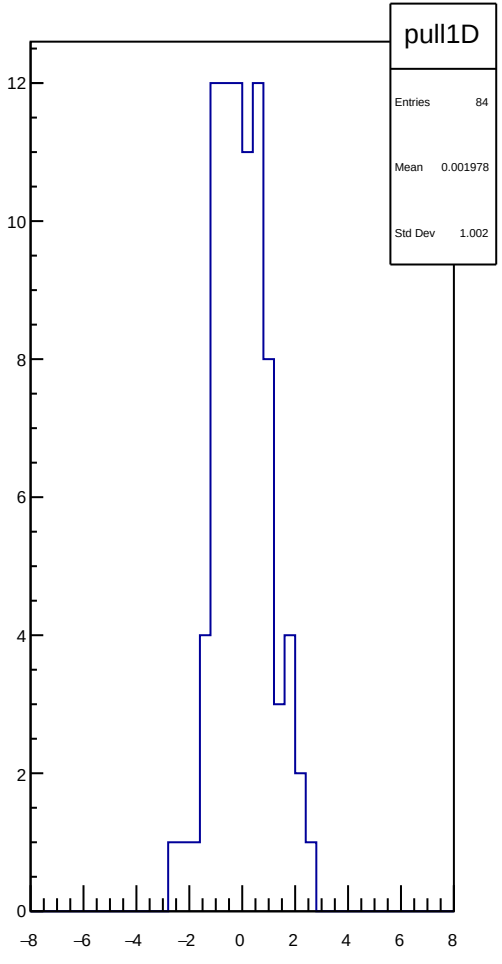

overload_cor_asym_us_dd_rms vs run
χ² / ndf 154.9 / 83
p0 1673 ± 1.31
1760
1740
1720
1700
1680
1660
1640
1620

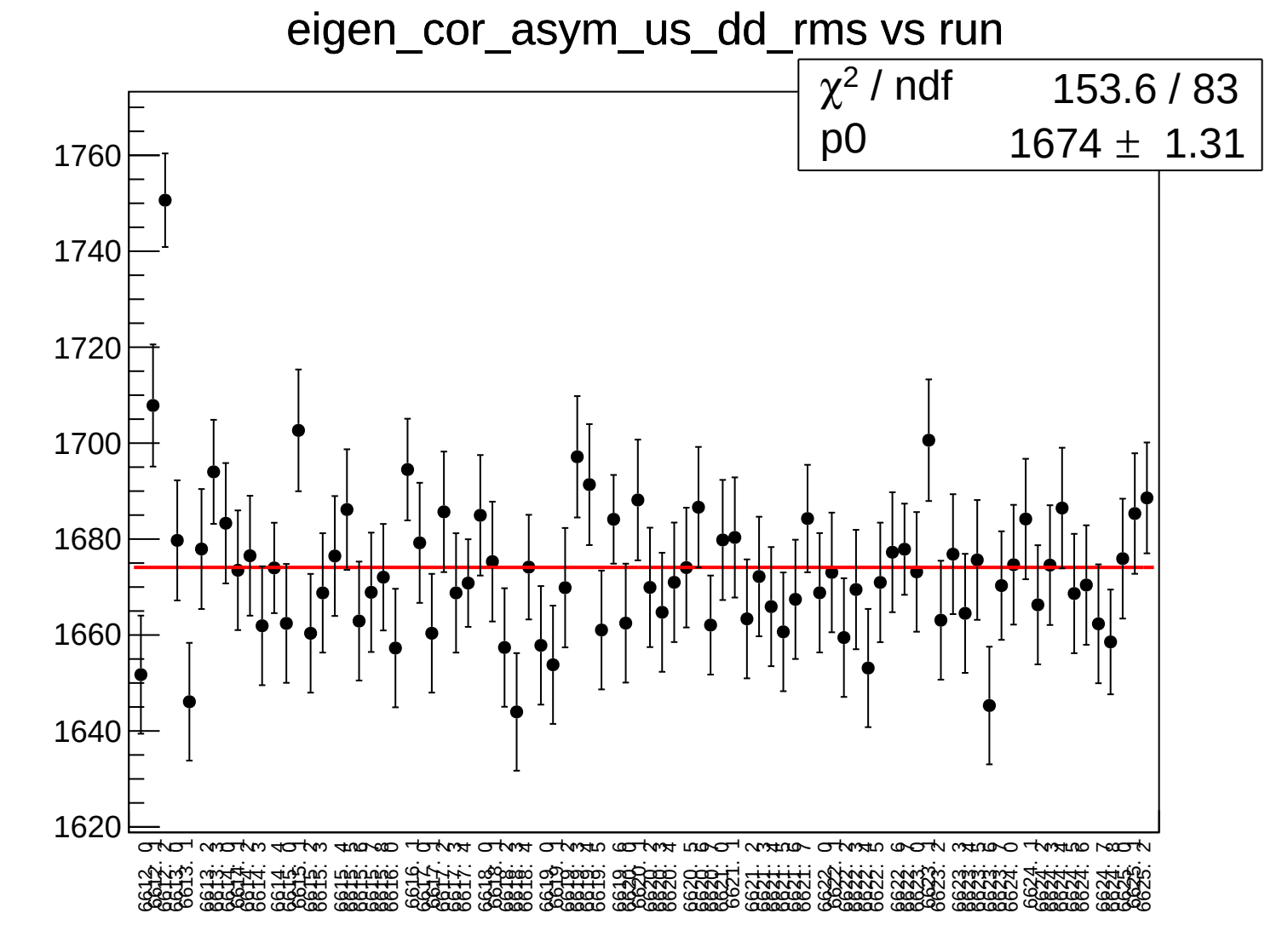

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 74.4 / 83
p0 −947.4 ± 576.9
pull
Entries 84
Mean 374.8
Std Dev 0

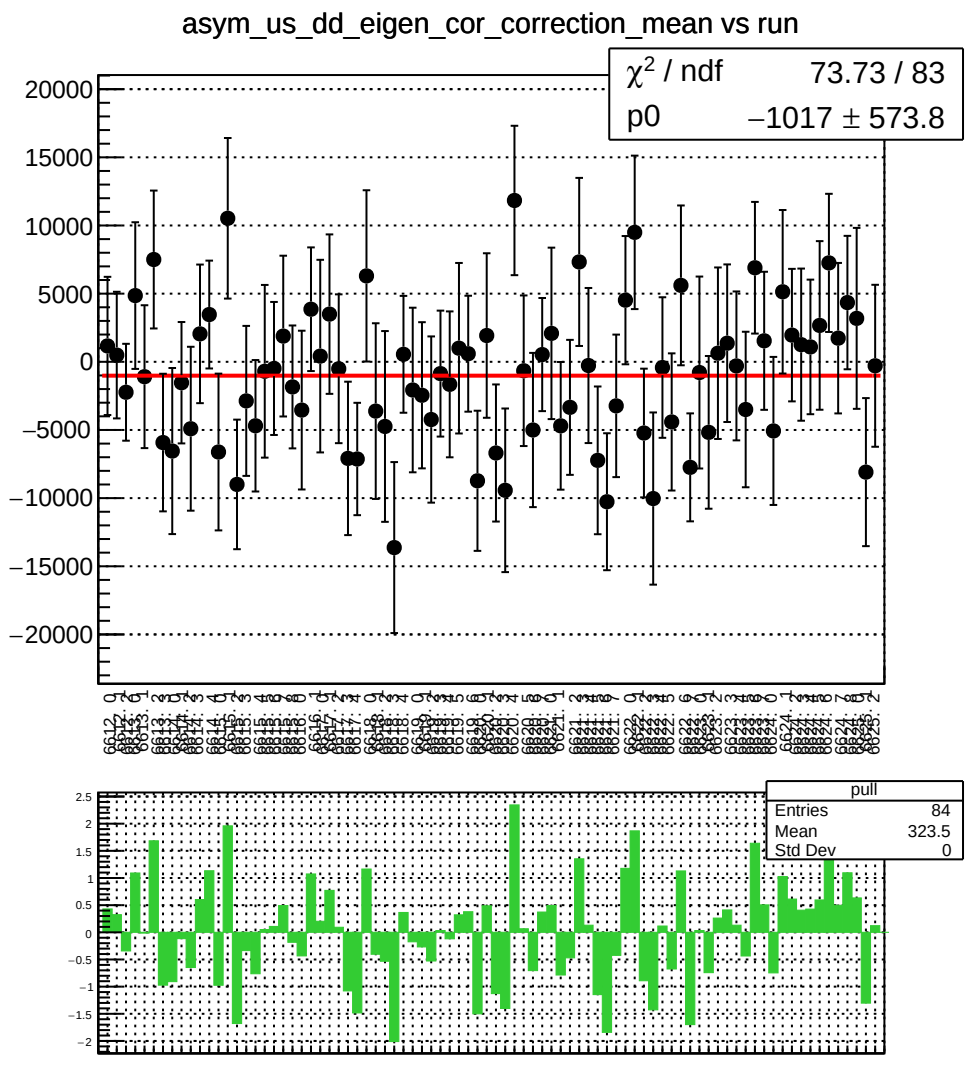

pull1D
Entries 84
Mean 0.004617
Std Dev 0.9411

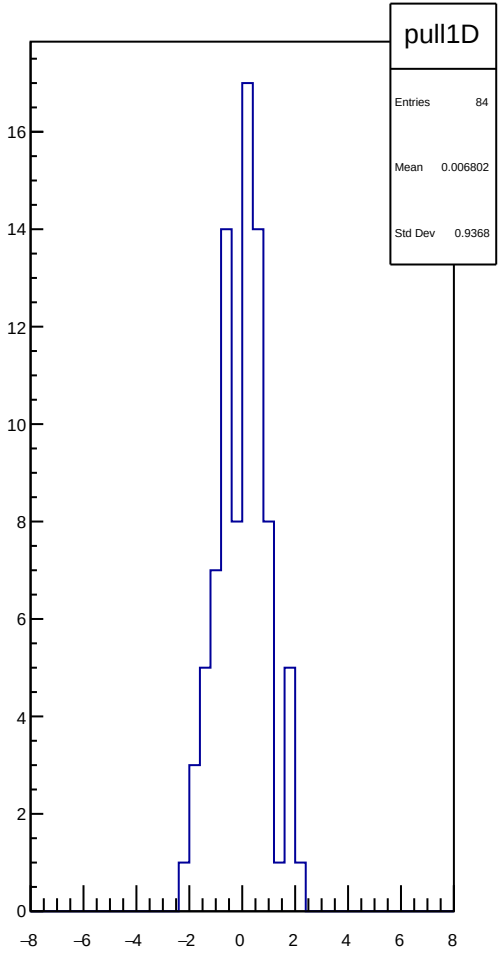

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1.663e+04 / 83
p0 518.6 ± 0.4079
700
650
600
550
500
450
400

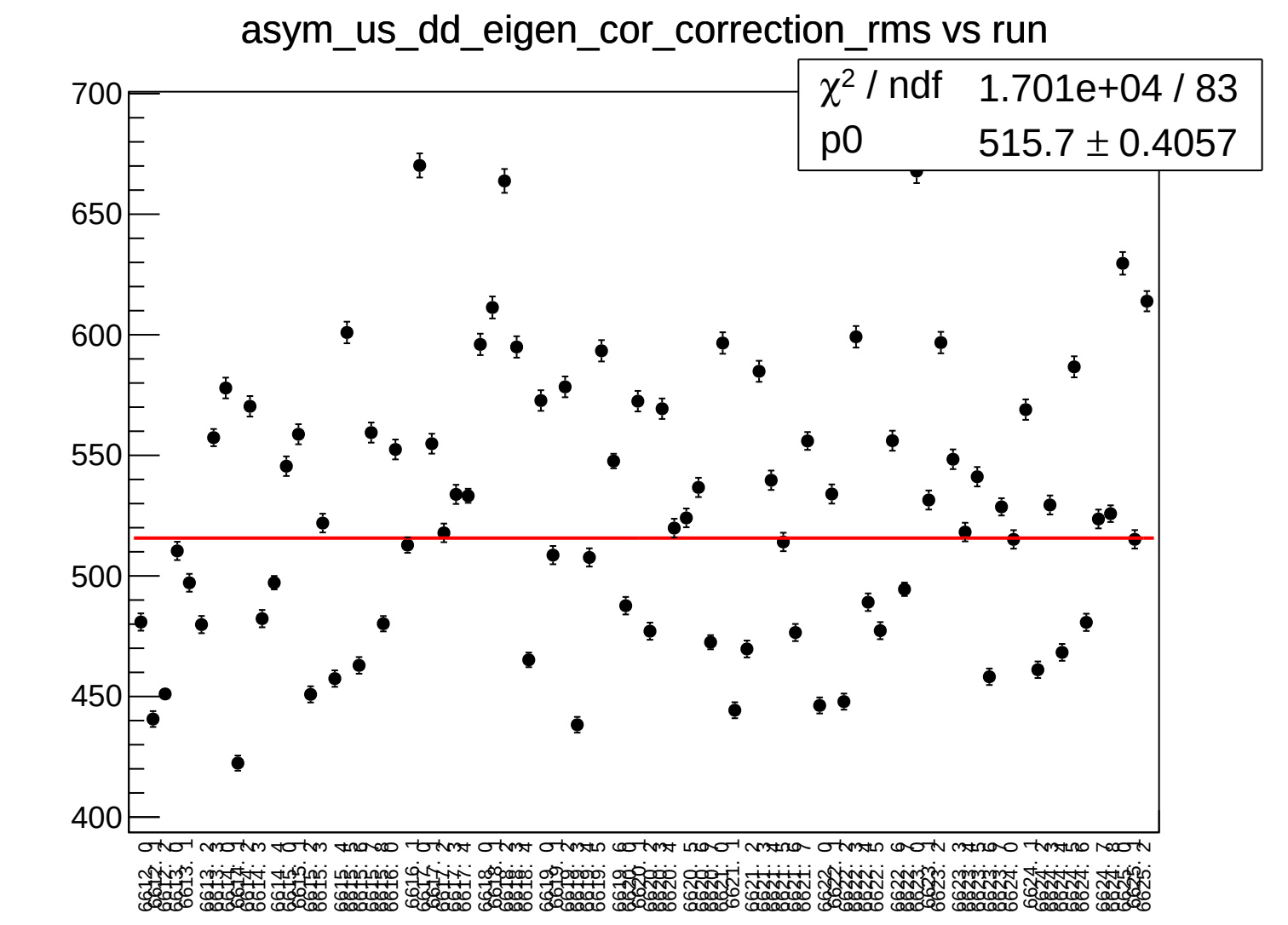

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 84.38 / 83
p0 −1746 ± 1853
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1821
Std Dev 0
2
1
0
−1
−2

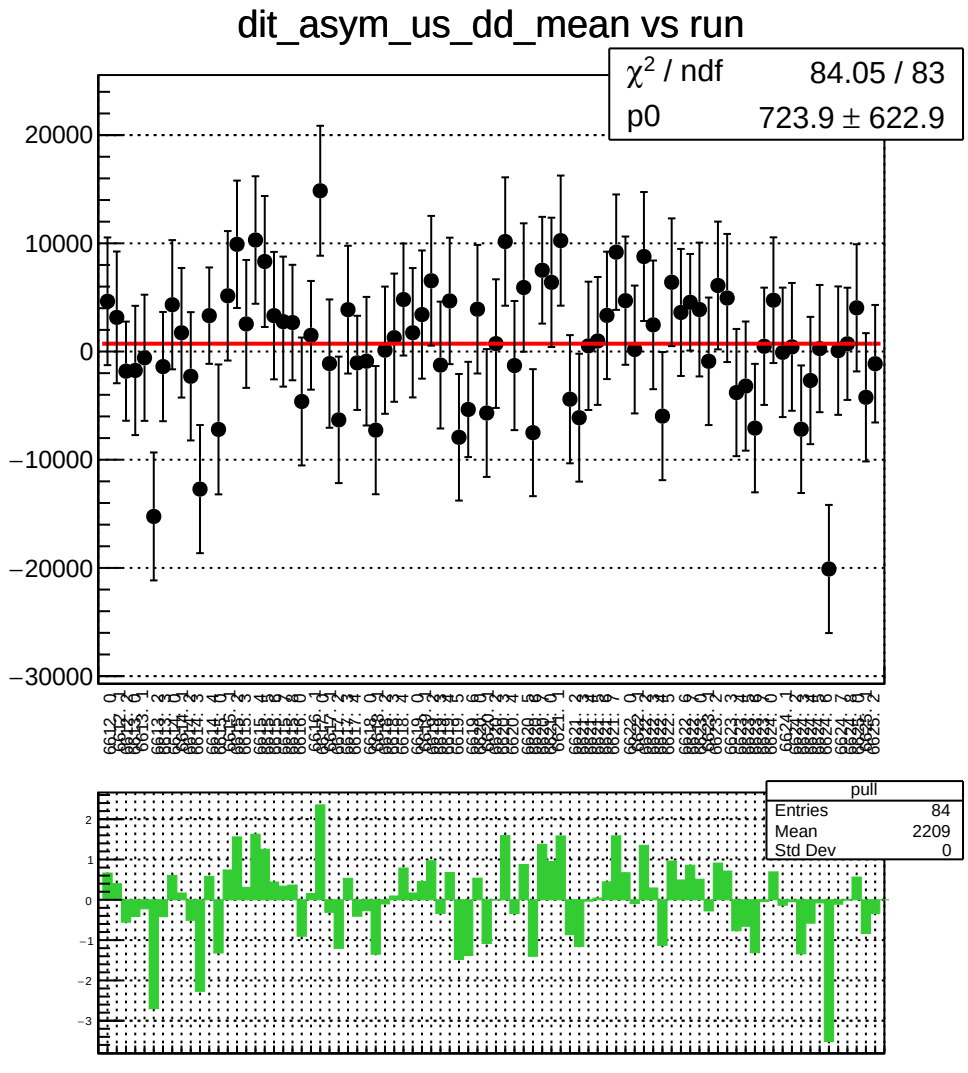

pull1D
Entries 84
Mean 0.001978
Std Dev 1.002
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

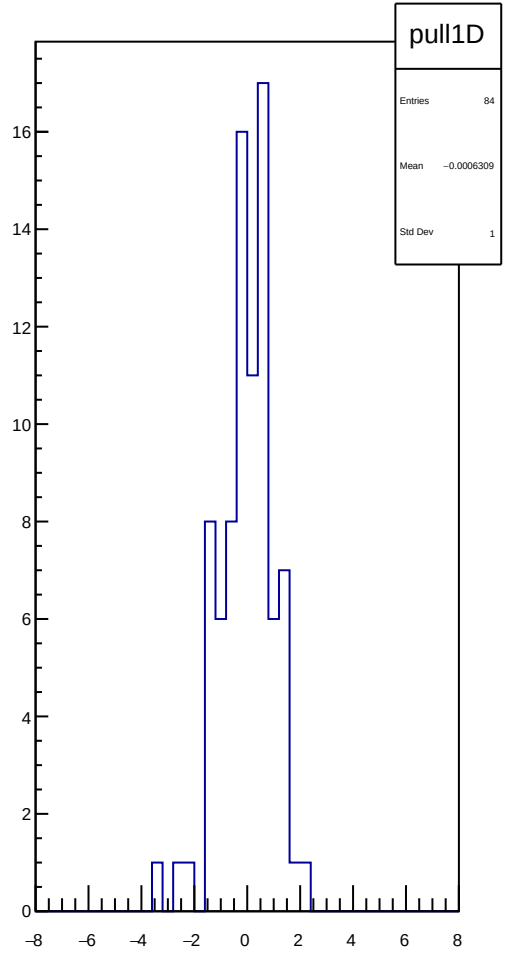

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 153.6 / 83
p0 1674 ± 1.31
1760
1740
1720
1700
1680
1660
1640
1620

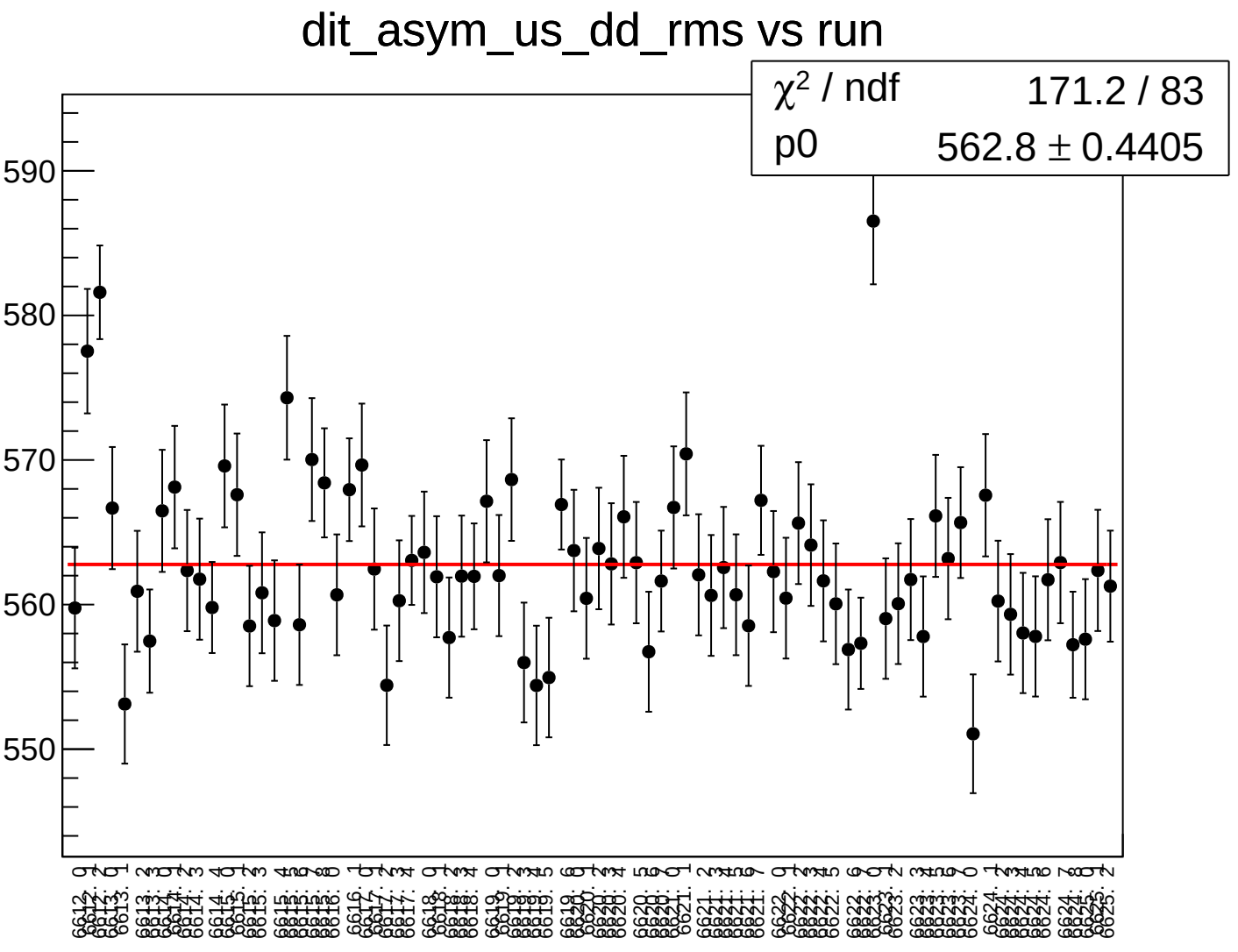

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.73 / 83
p0 −1017 ± 573.8
pull
Entries 84
Mean 323.5
Std Dev 0

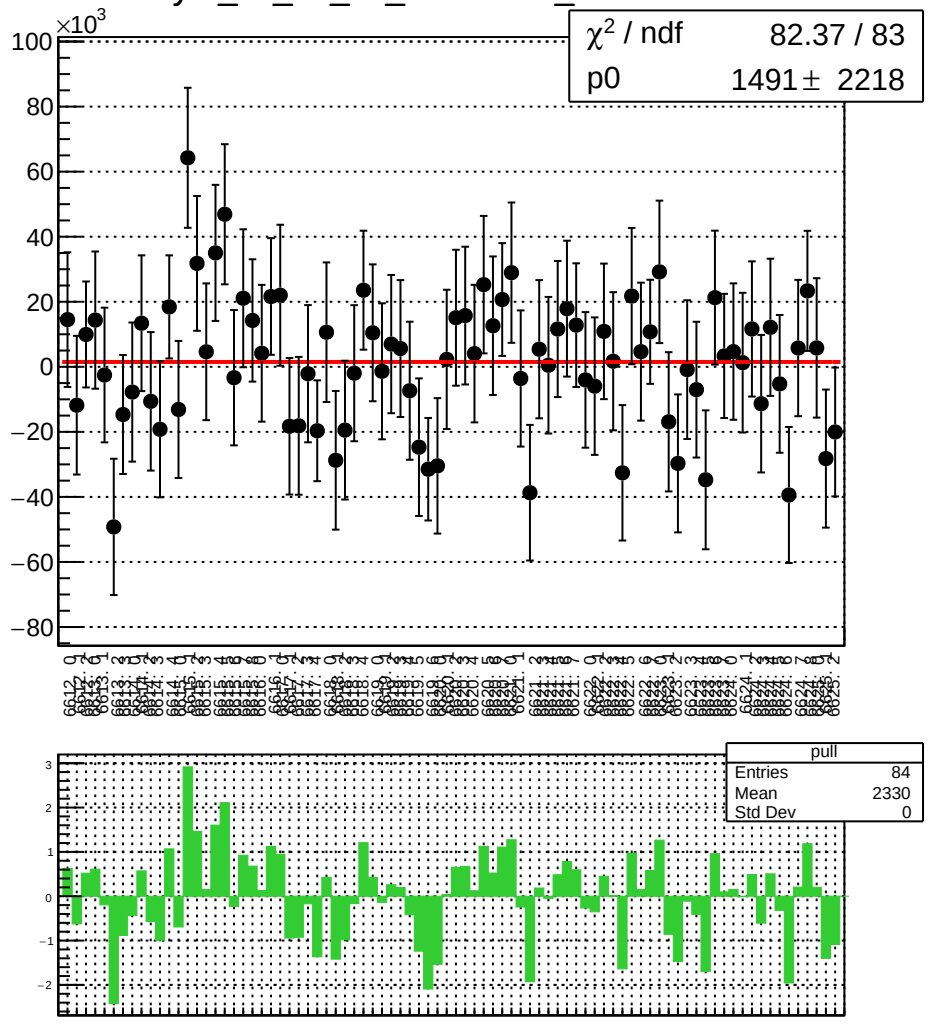

pull1D
Entries 84
Mean 0.006802
Std Dev 0.9368

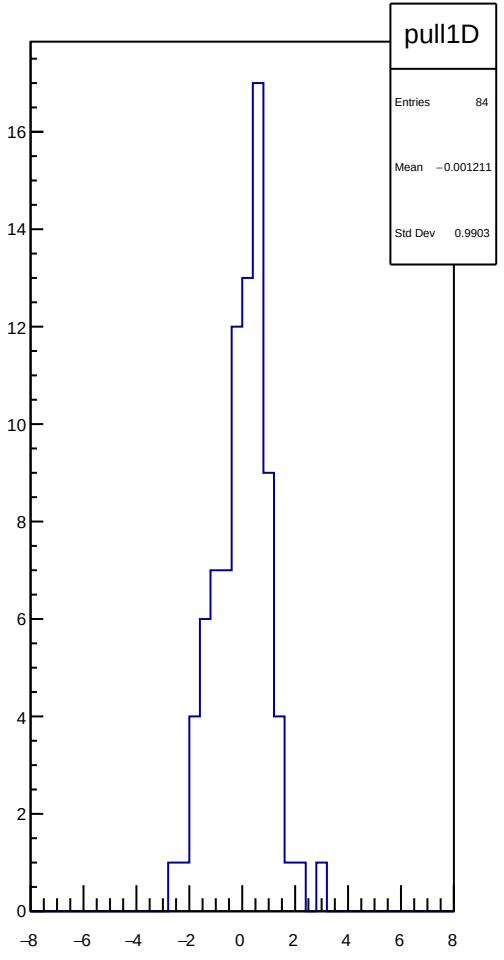

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.701e+04 / 83
p0 515.7 ± 0.4057
700
650
600
550
500
450
400

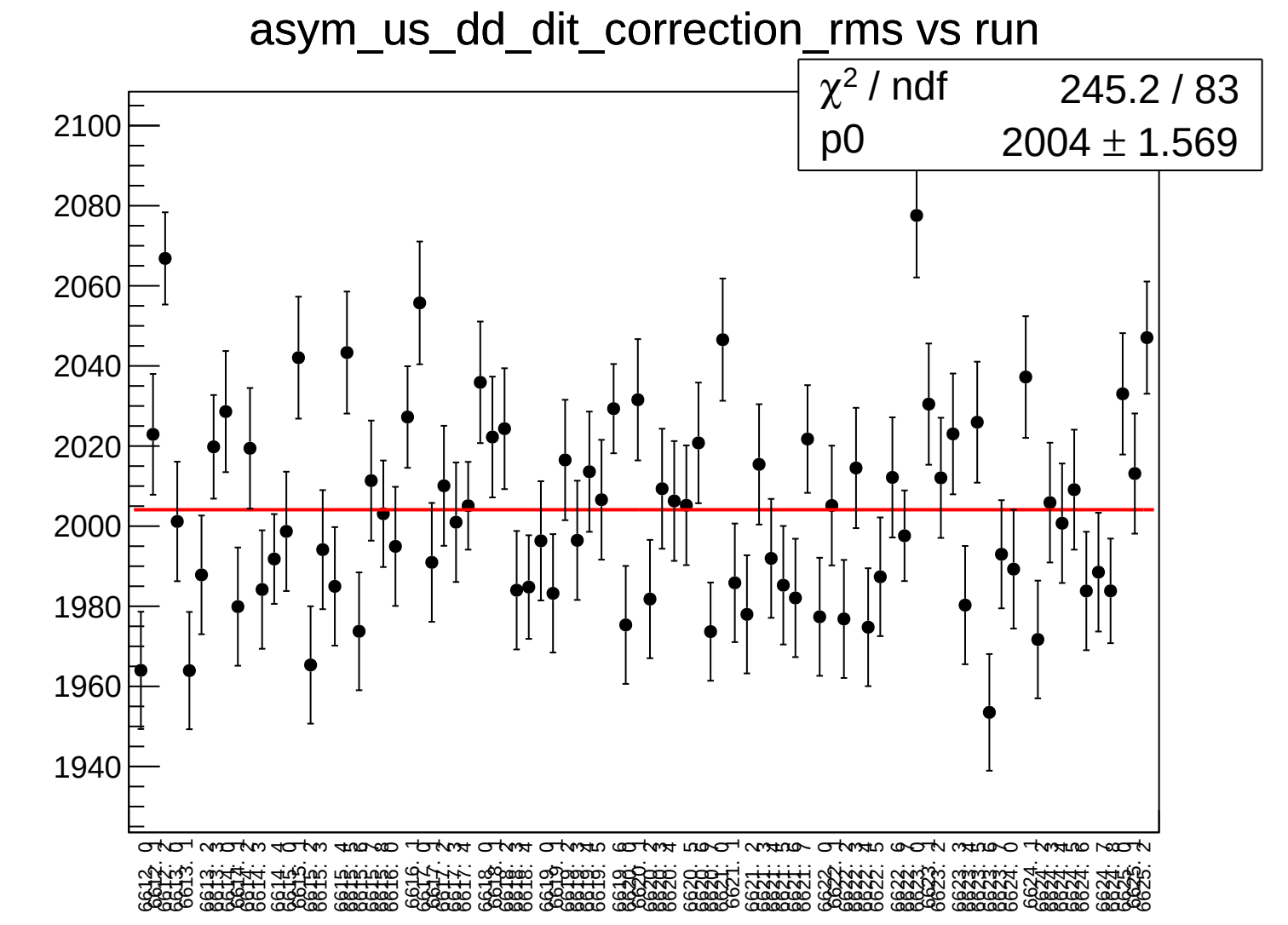

dit_asym_us_dd_mean vs run
χ² / ndf 84.05 / 83
p0 723.9 ± 622.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 2209
Std Dev 0
2
1
0
−1
−2
−3

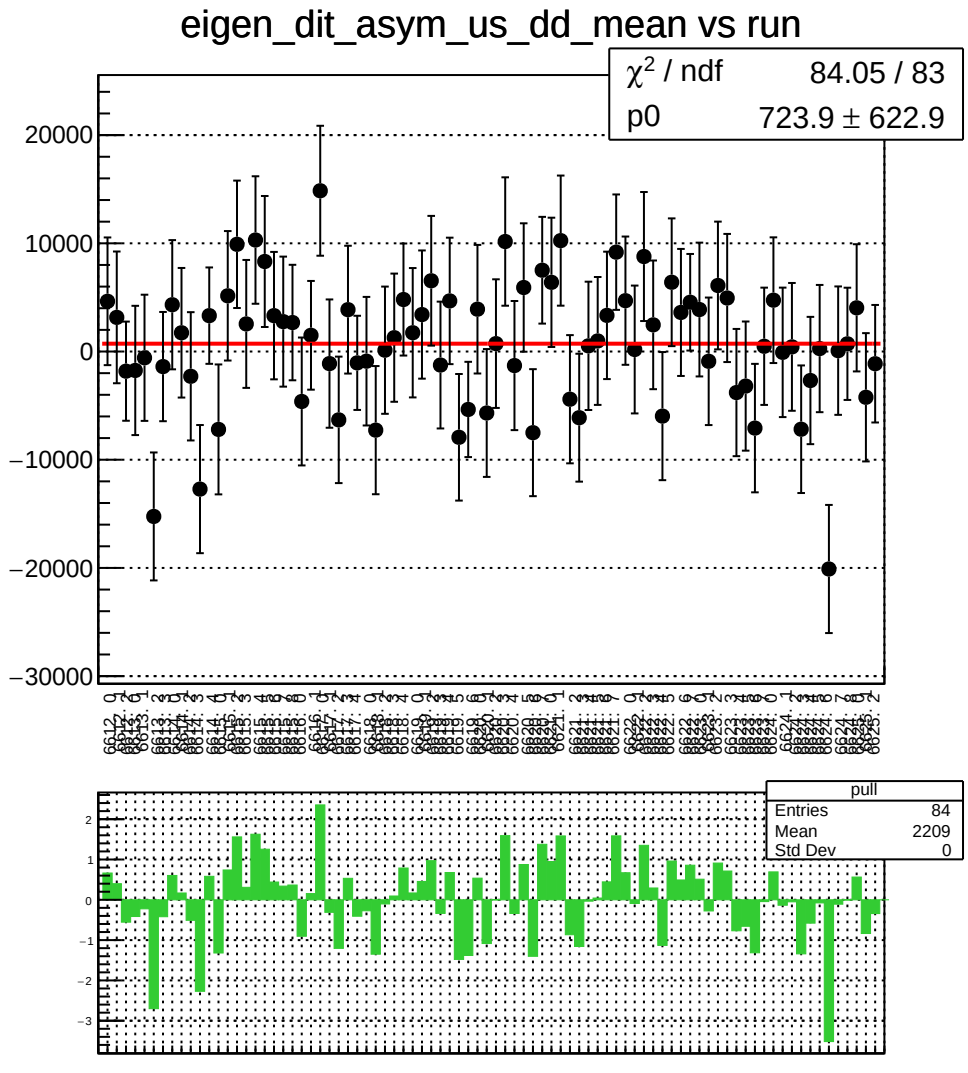

pull1D
Entries 84
Mean −0.0006309
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

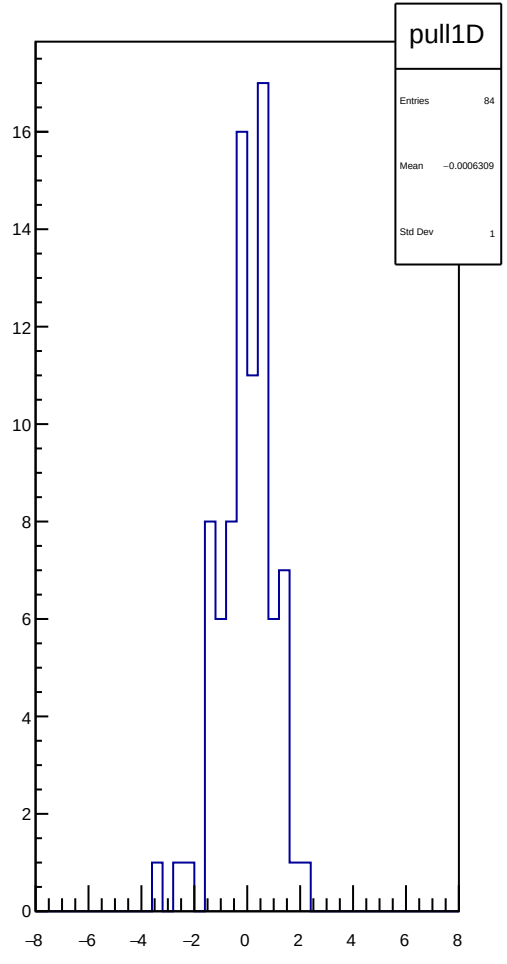

dit_asym_us_dd_rms vs run
χ^2 / ndf 171.2 / 83
p0 562.8 ± 0.4405
590
580
570
560
550

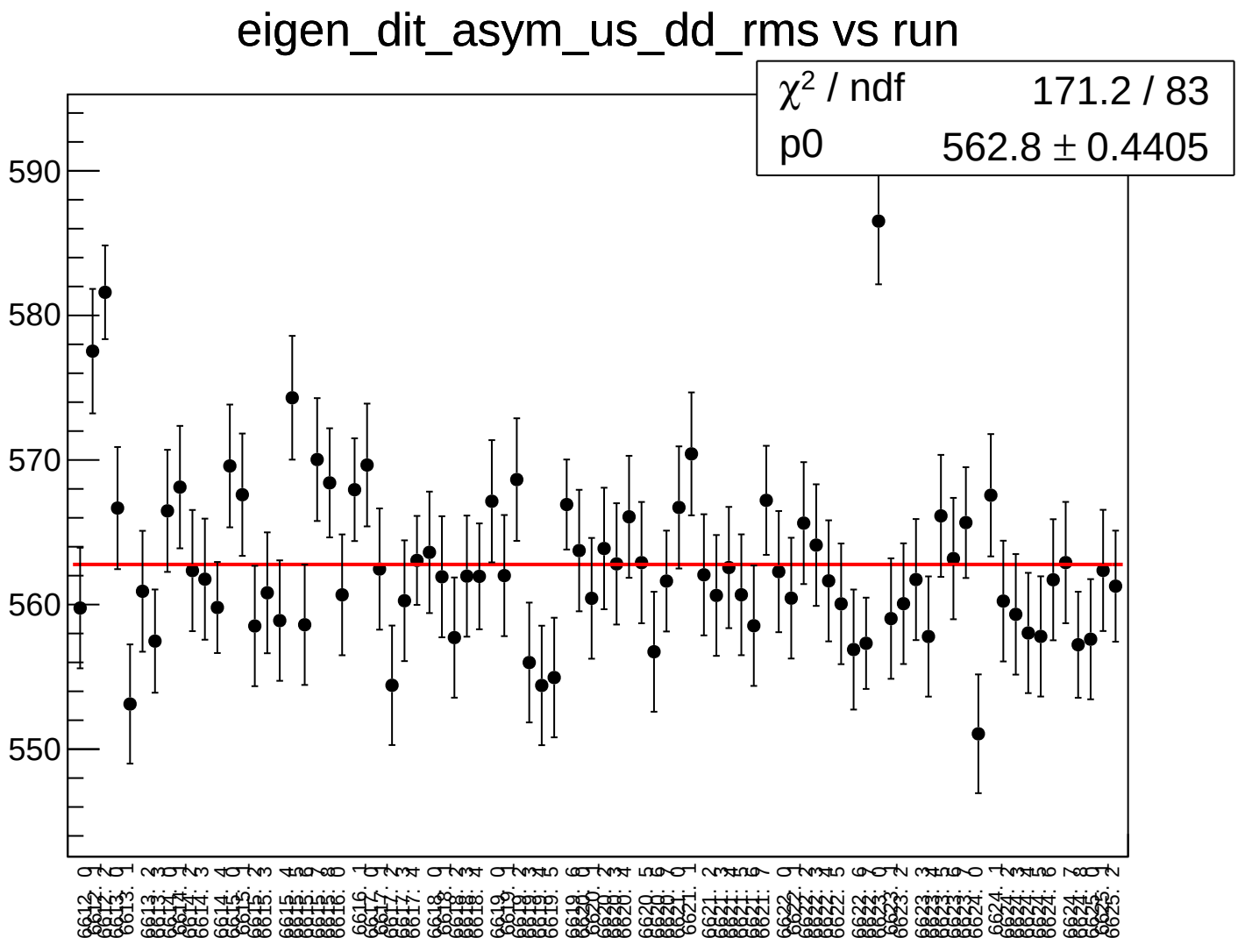

asym_us_dd_dit_correction_mean vs run
χ² / ndf 82.37 / 83
p0 1491 ± 2218
pull
Entries 84
Mean 2330
Std Dev 0

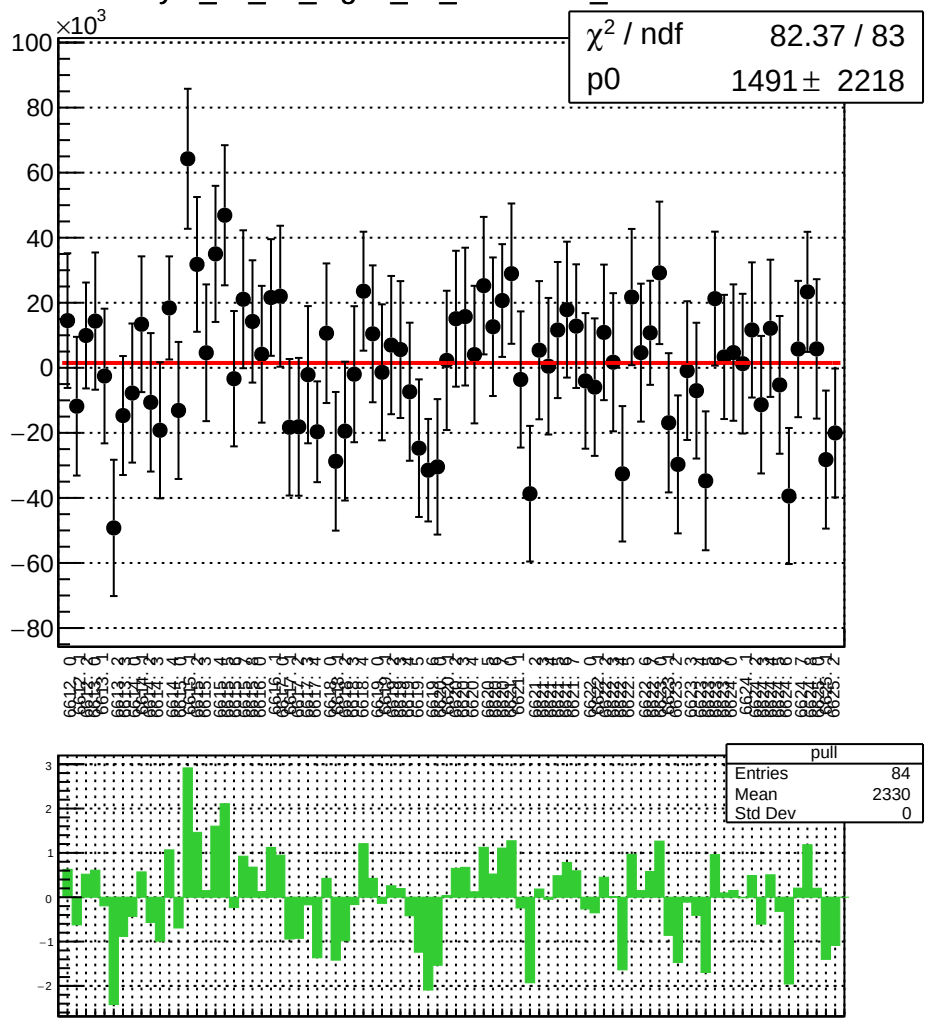

pull1D
Entries 84
Mean −0.001211
Std Dev 0.9903

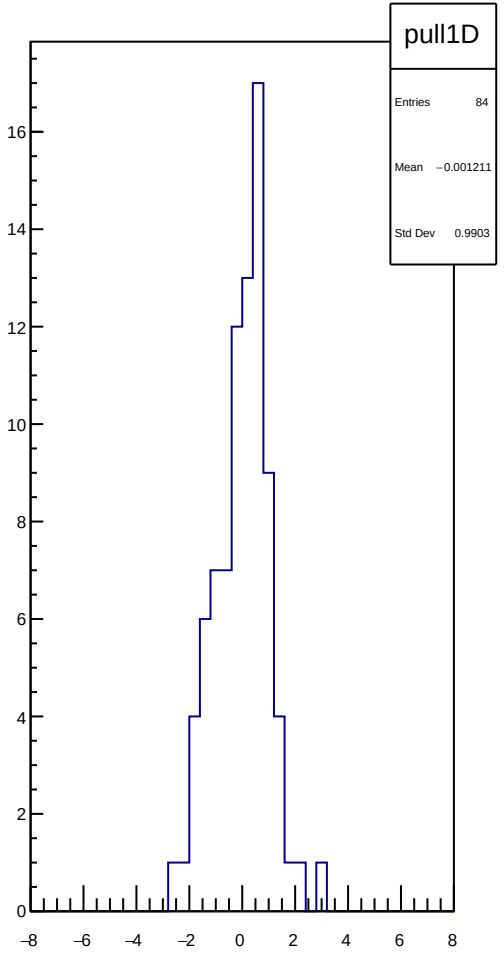

asym_us_dd_dit_correction_rms vs run
χ² / ndf 245.2 / 83
p0 2004 ± 1.569
2100
2080
2060
2040
2020
2000
1980
1960
1940

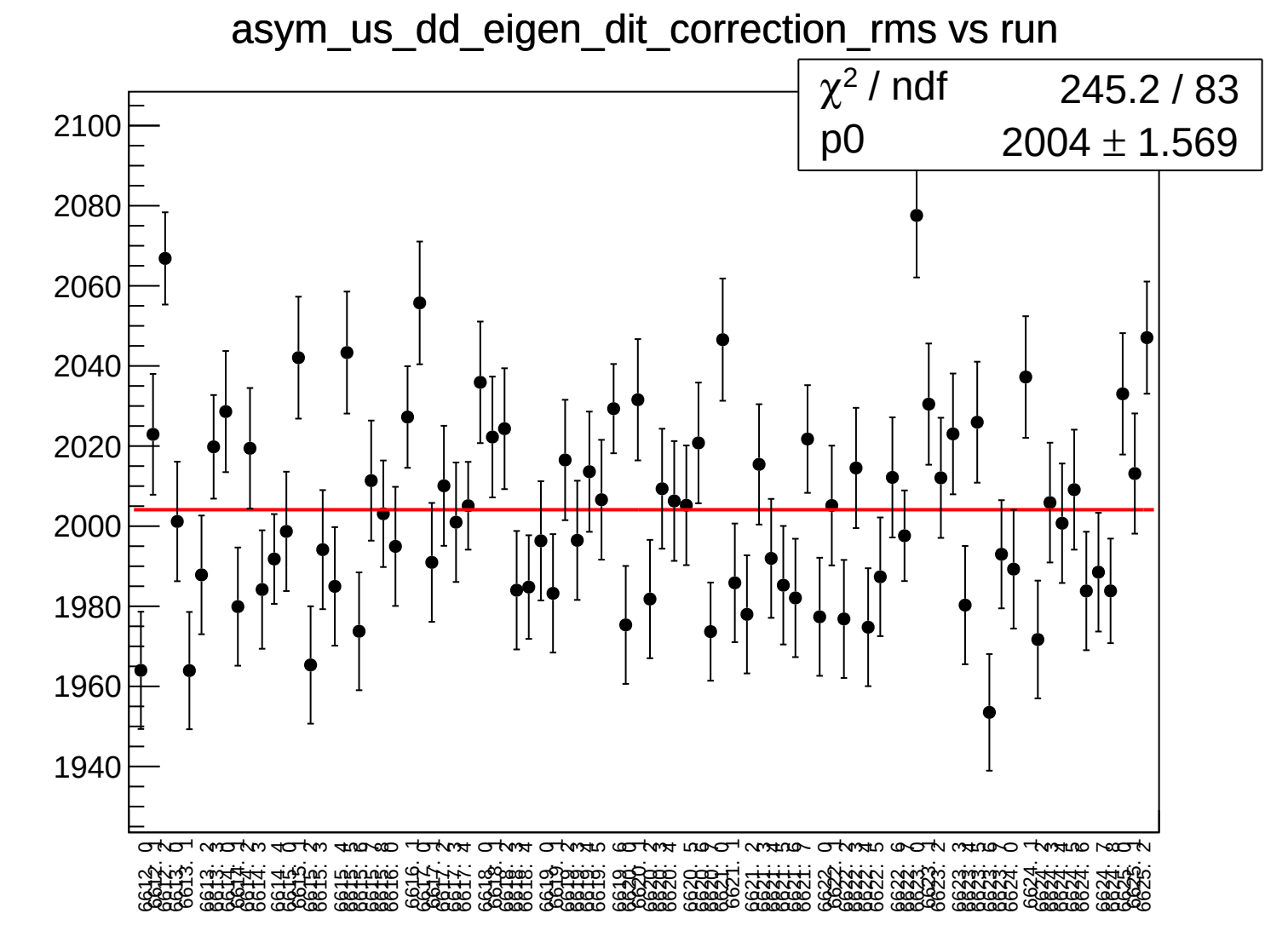

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 84.05 / 83
p0 723.9 ± 622.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 2209
Std Dev 0
2
1
0
−1
−2
−3

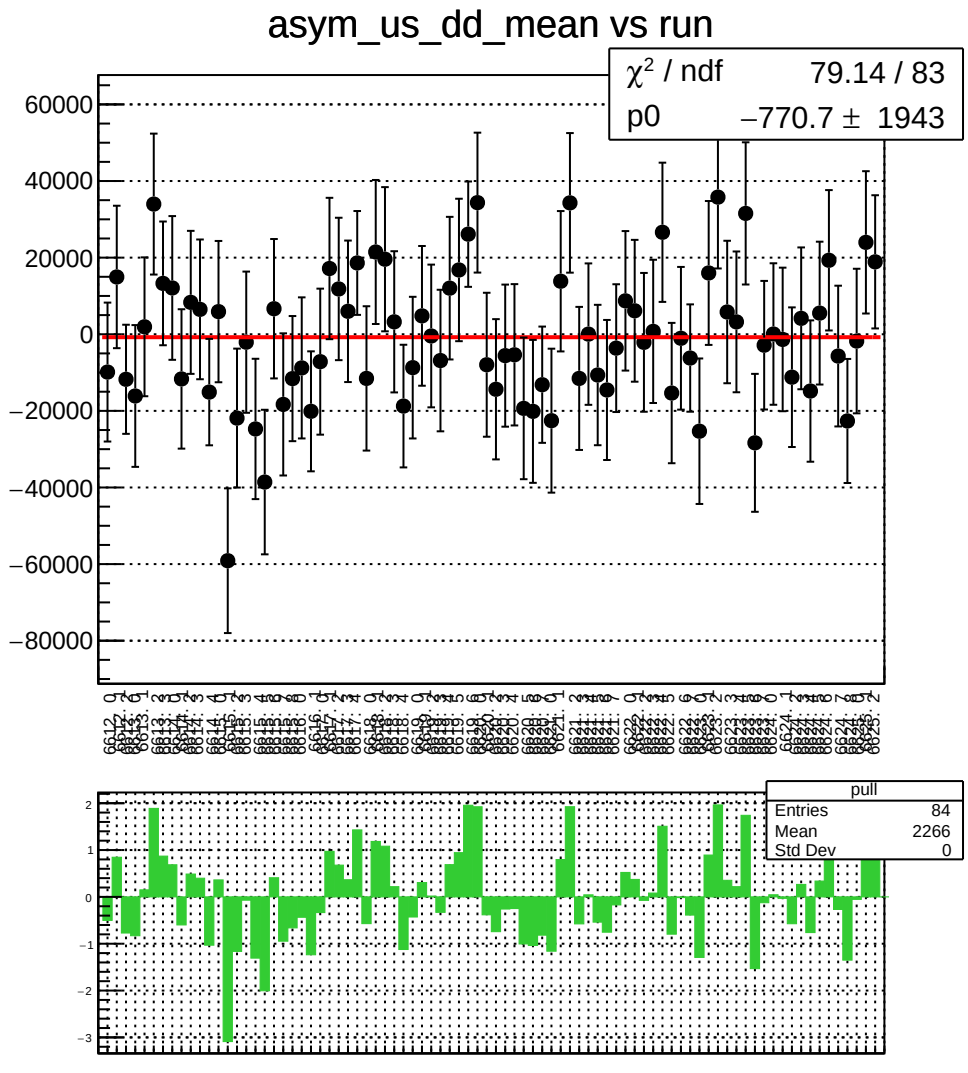

pull1D
Entries 84
Mean −0.0006309
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

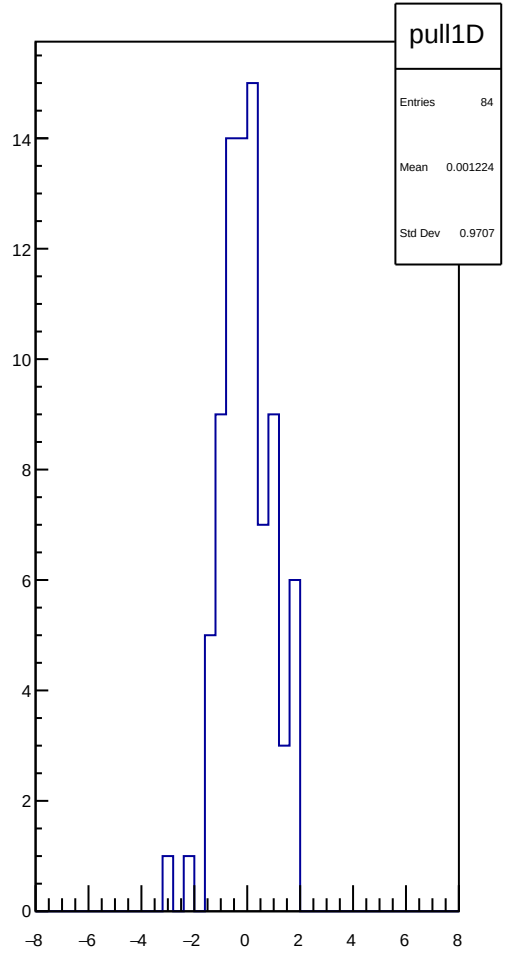

eigen_dit_asym_us_dd_rms vs run
χ^2 / ndf 171.2 / 83
p0 562.8 ± 0.4405
590
580
570
560
550

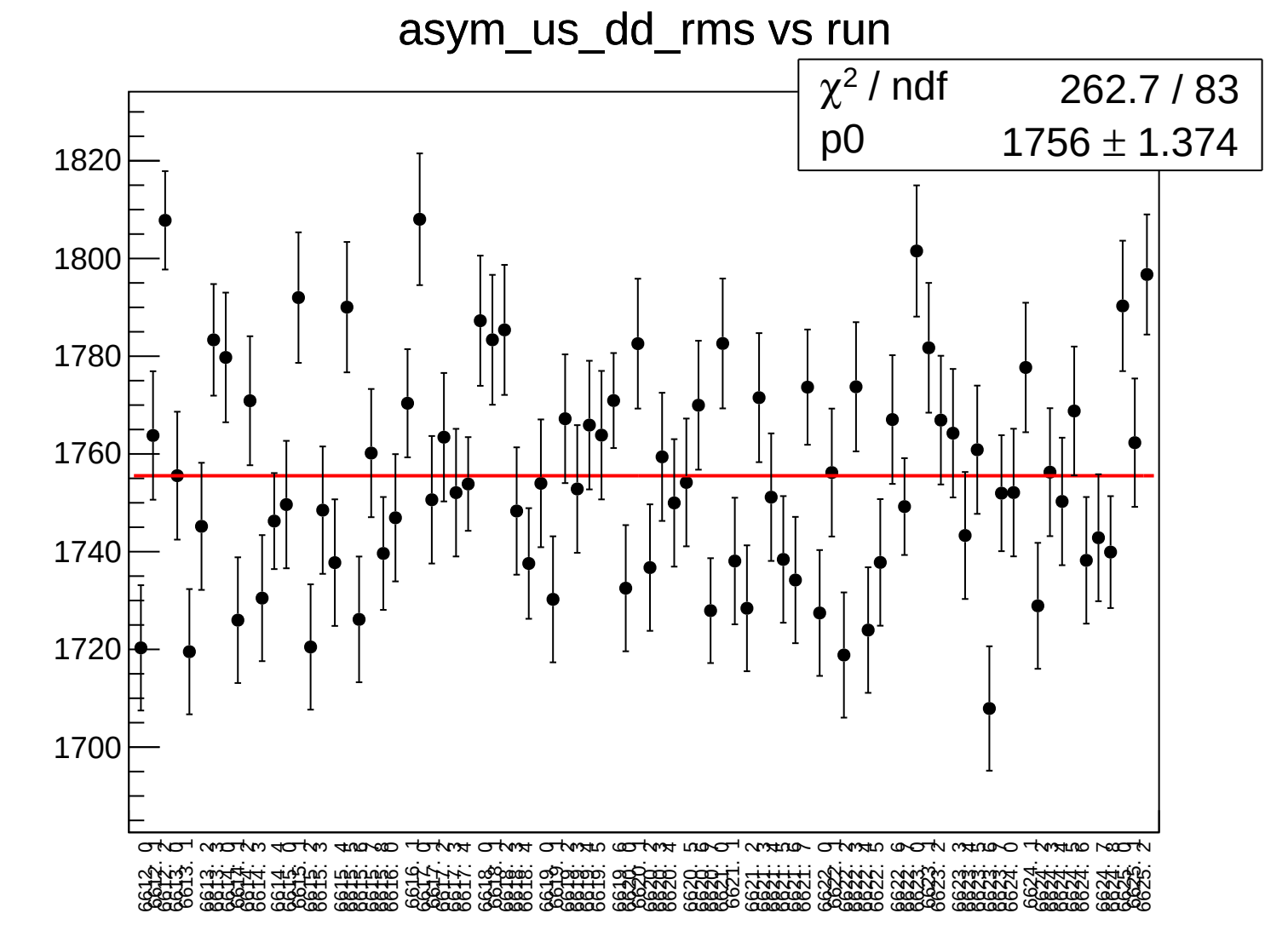

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.37 / 83
p0 1491 ± 2218
pull
Entries 84
Mean 2330
Std Dev 0

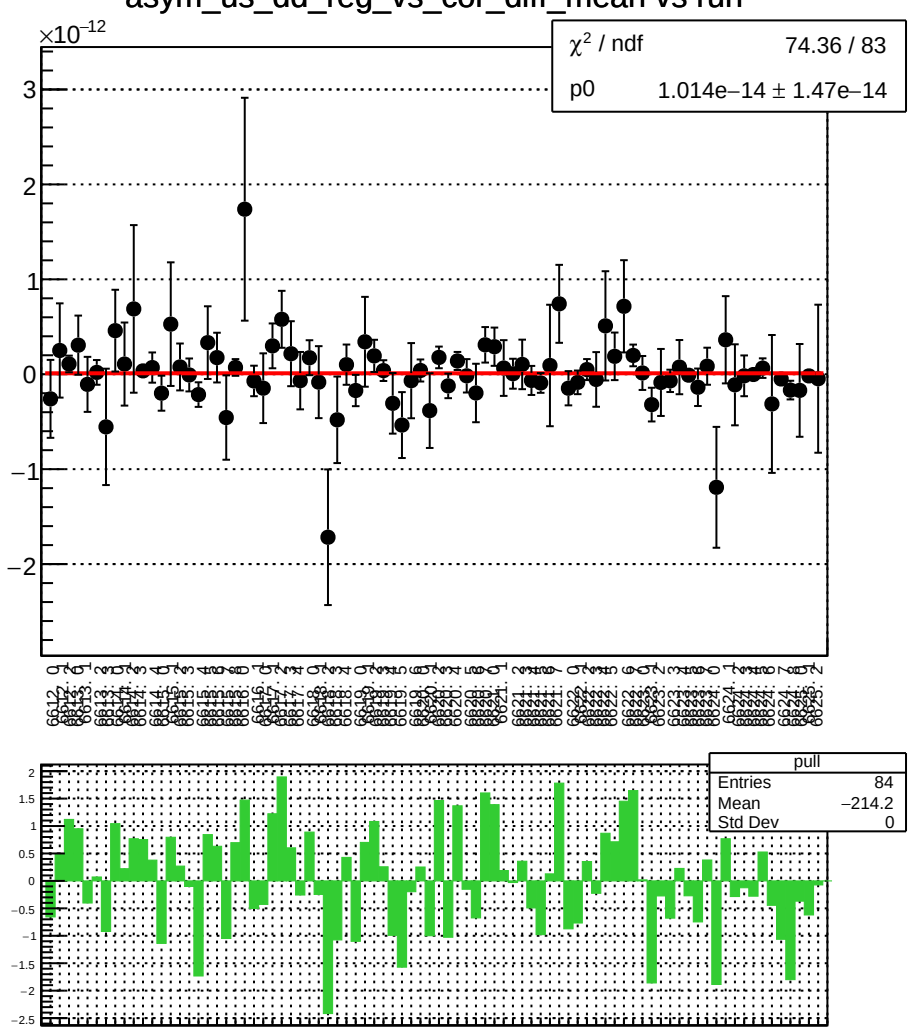

pull1D
Entries 84
Mean −0.001211
Std Dev 0.9903

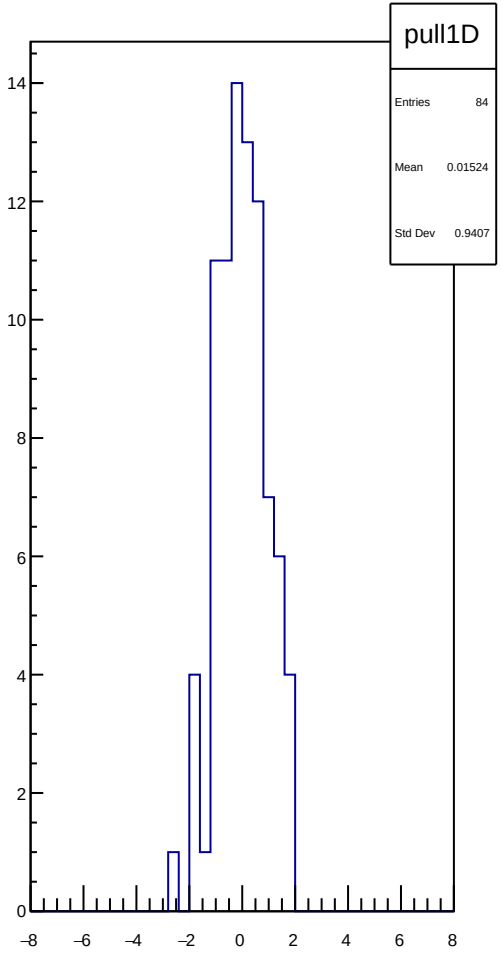

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 245.2 / 83
p0 2004 ± 1.569
2100
2080
2060
2040
2020
2000
1980
1960
1940

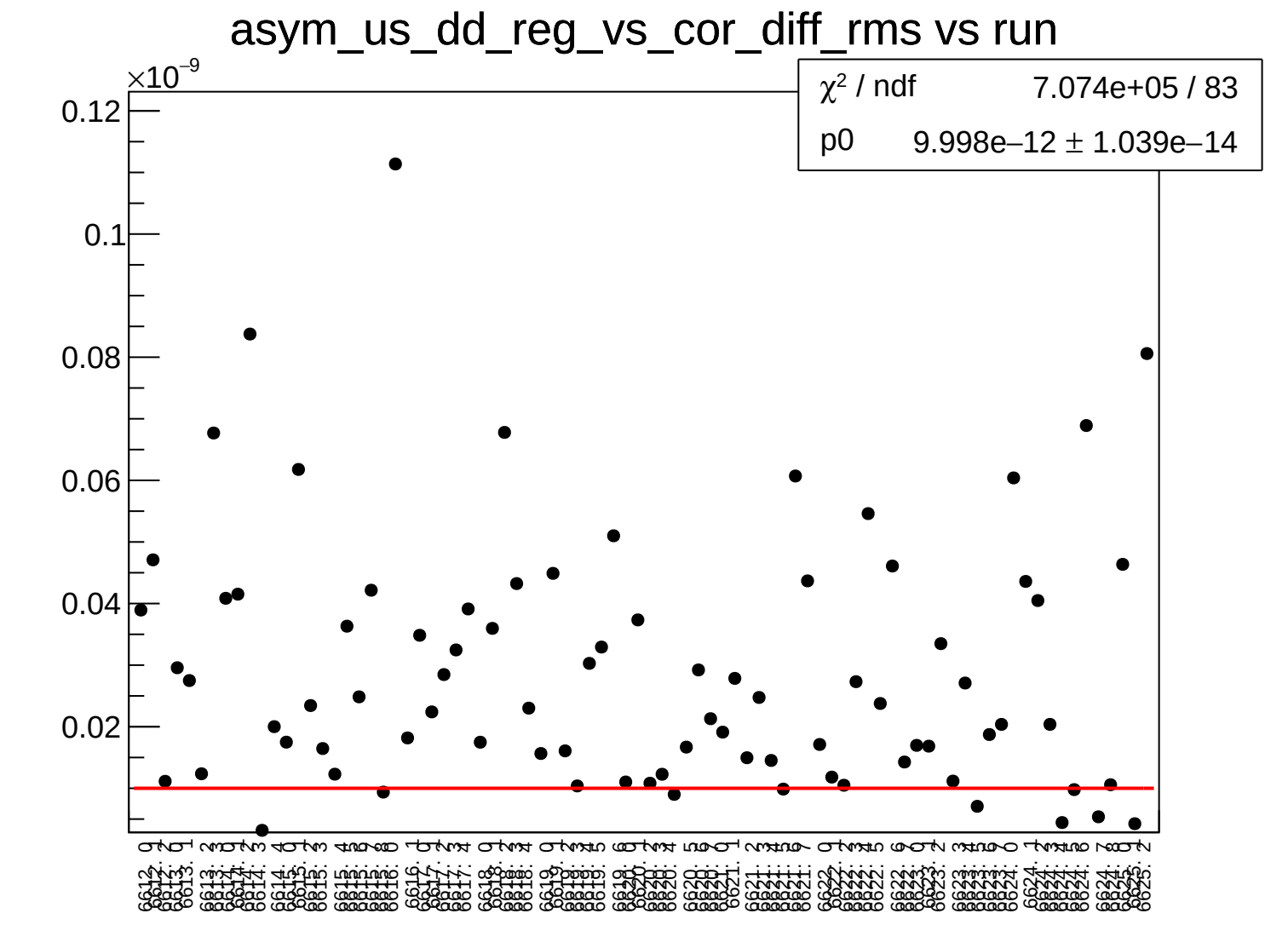

asym_us_dd_mean vs run
χ² / ndf 79.14 / 83
p0 −770.7 ± 1943
pull
Entries 84
Mean 2266
Std Dev 0

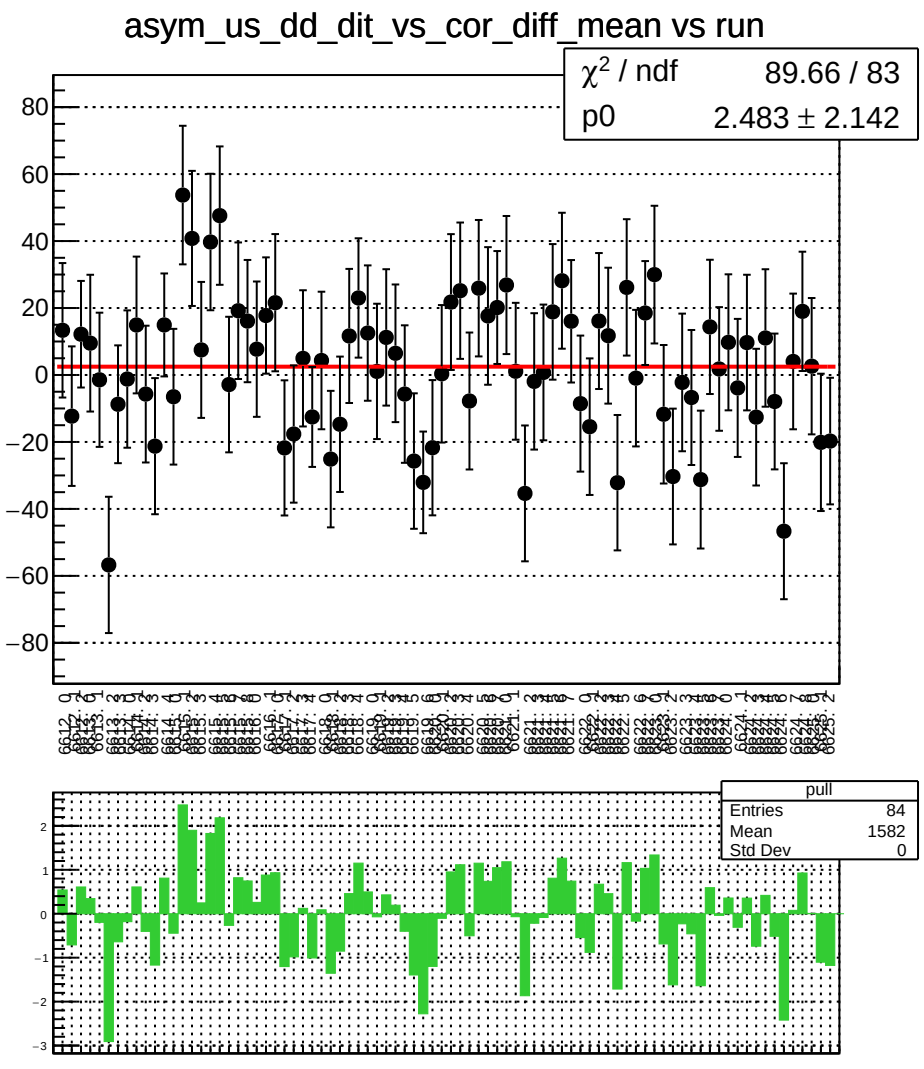

pull1D
Entries 84
Mean 0.001224
Std Dev 0.9707

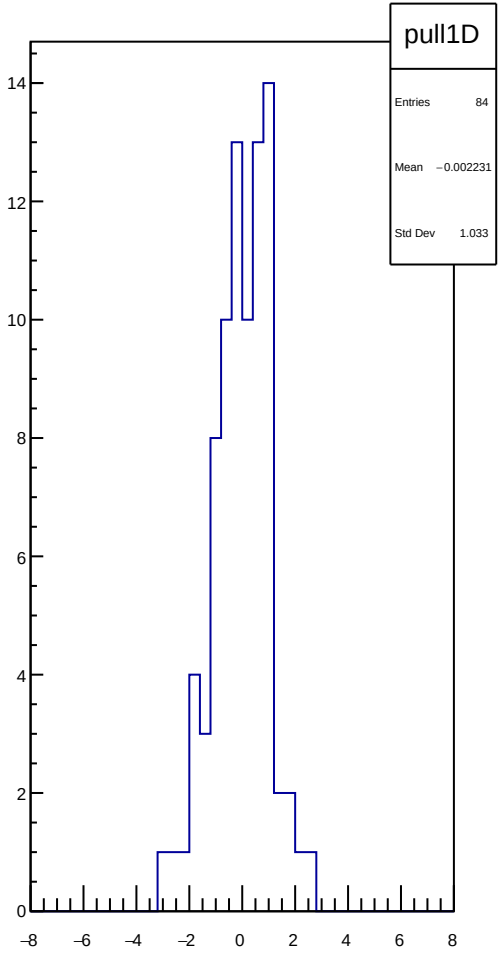

asym_us_dd_rms vs run
χ^2 / ndf 262.7 / 83
p0 1756 ± 1.374
1820
1800
1780
1760
1740
1720
1700

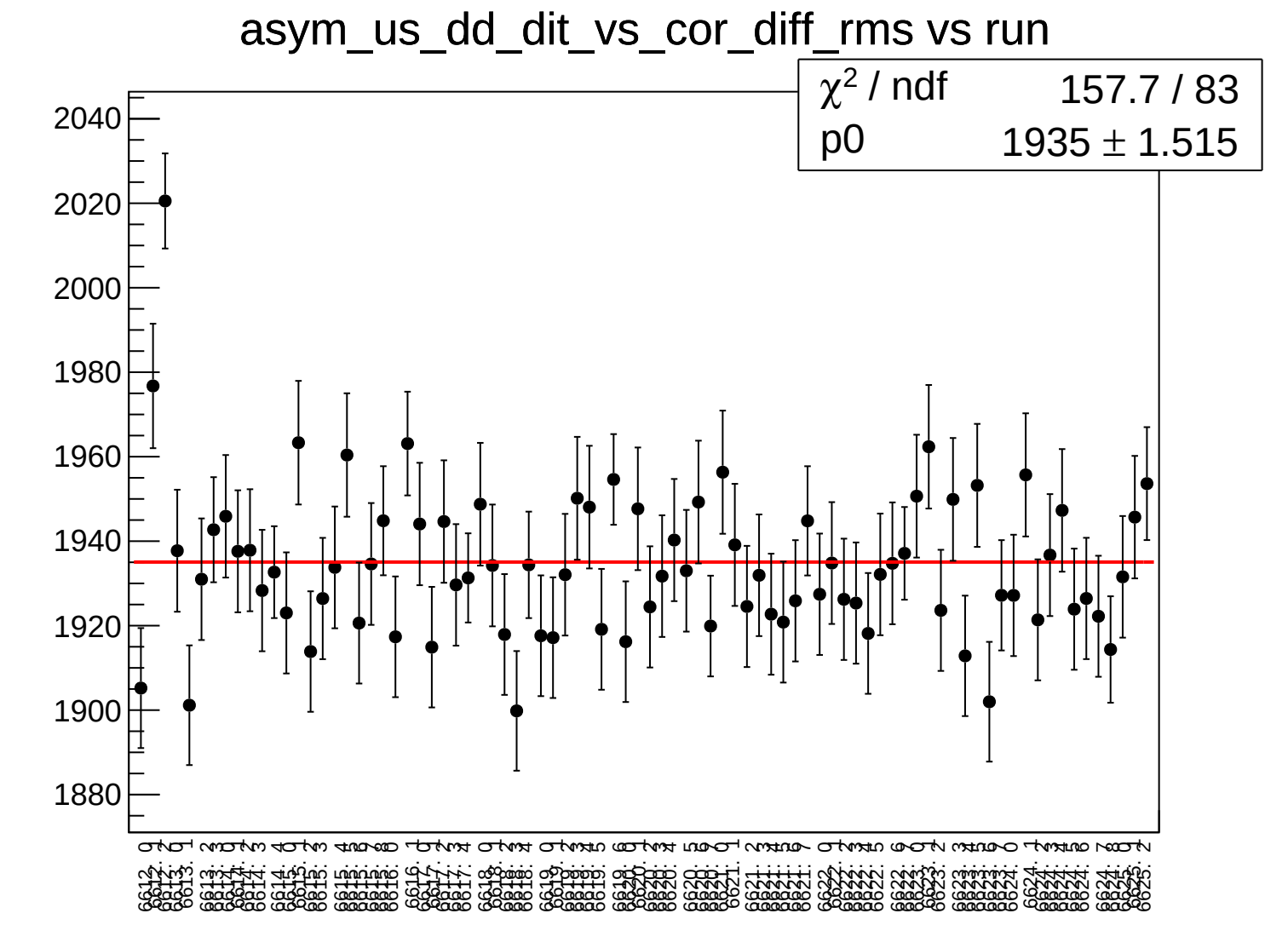

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.36 / 83
p0 1.014e−14 ± 1.47e−14
pull
Entries 84
Mean −214.2
Std Dev 0

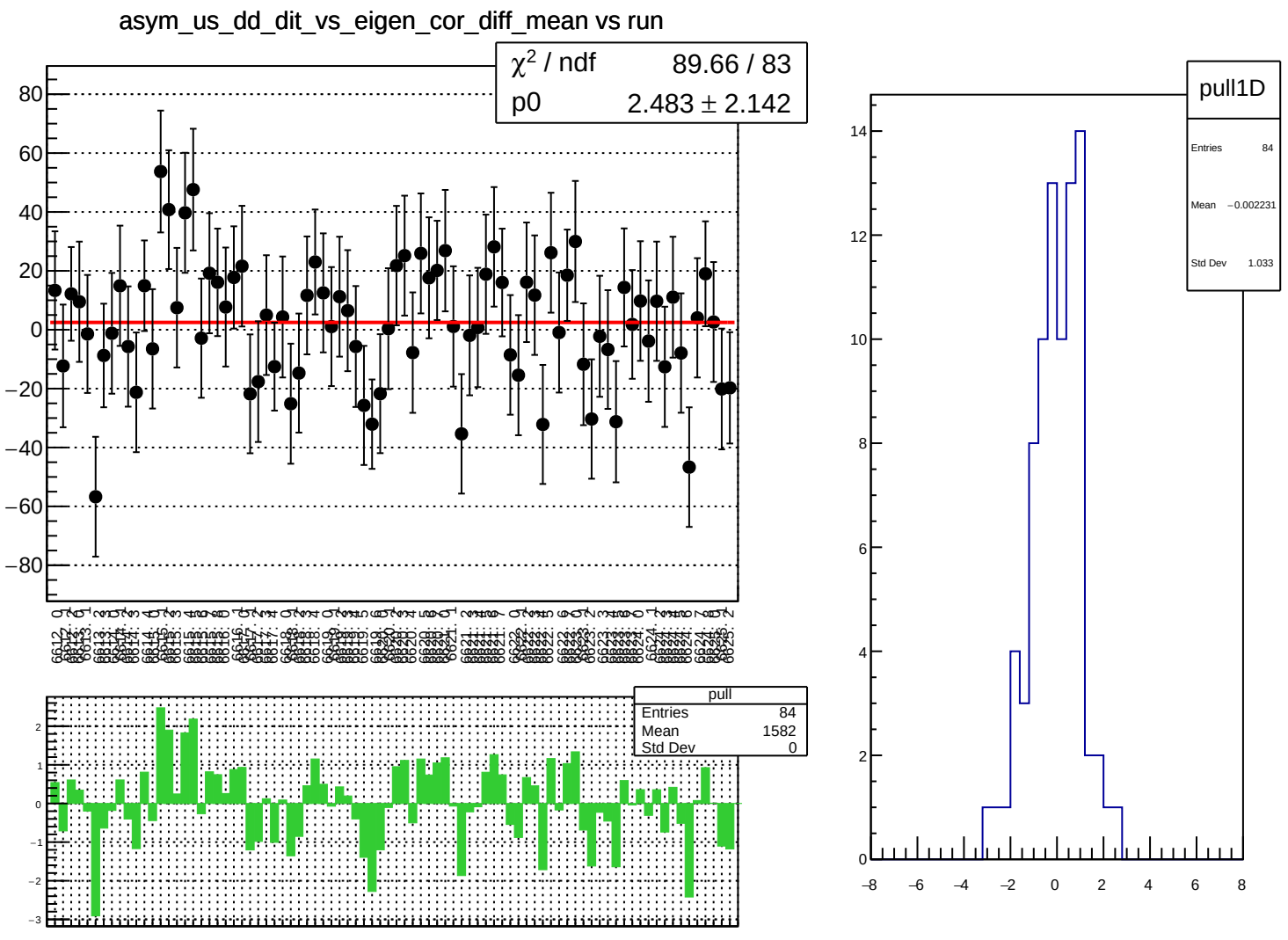

pull1D
Entries 84
Mean 0.01524
Std Dev 0.9407

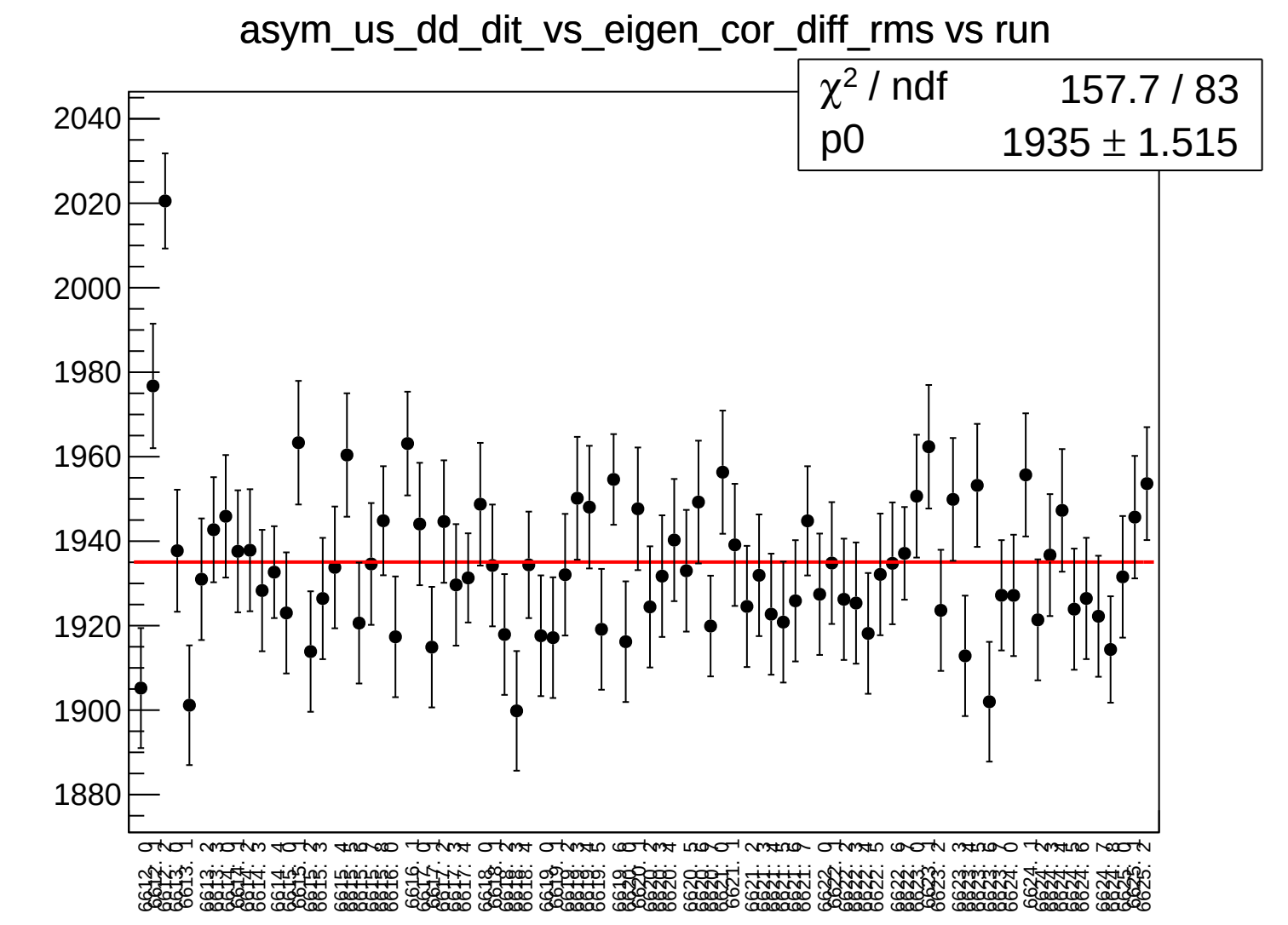

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.074e+05 / 83
p0 9.998e−12 ± 1.039e−14
0.12
0.1
0.08
0.06
0.04
0.02

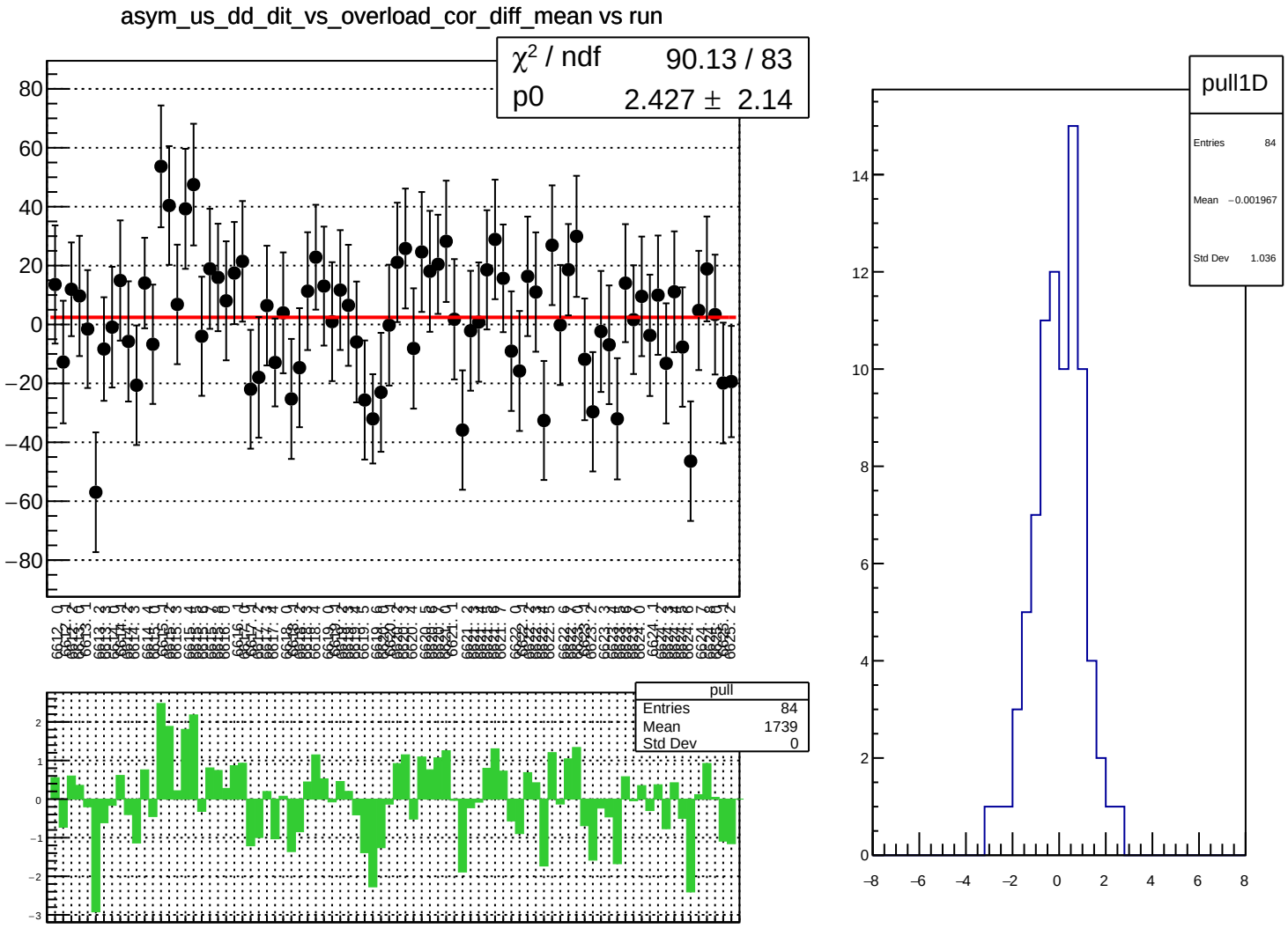

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.66 / 83
p0 2.483 ± 2.142
pull
Entries 84
Mean 1582
Std Dev 0

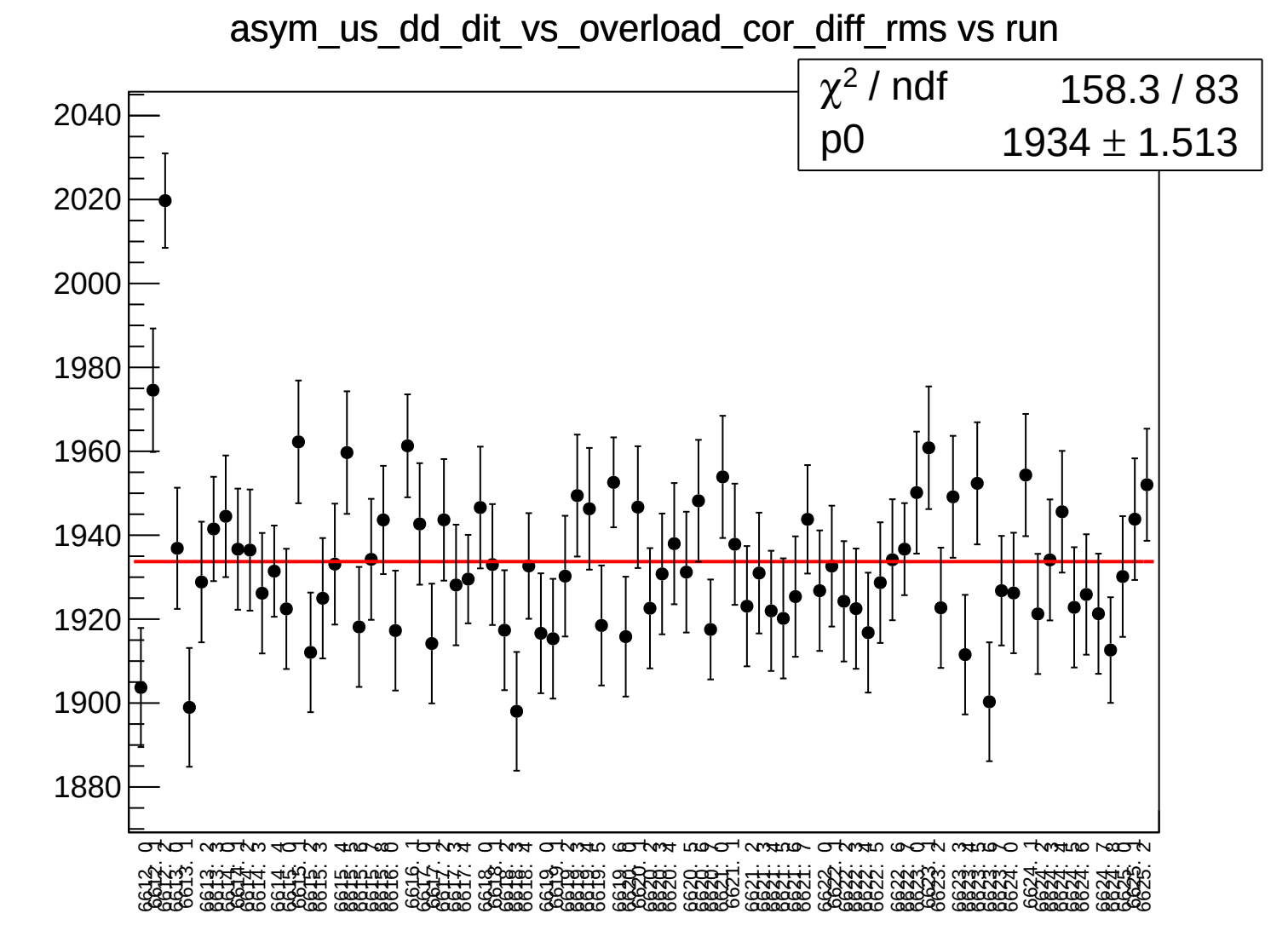

pull1D
Entries 84
Mean −0.002231
Std Dev 1.033

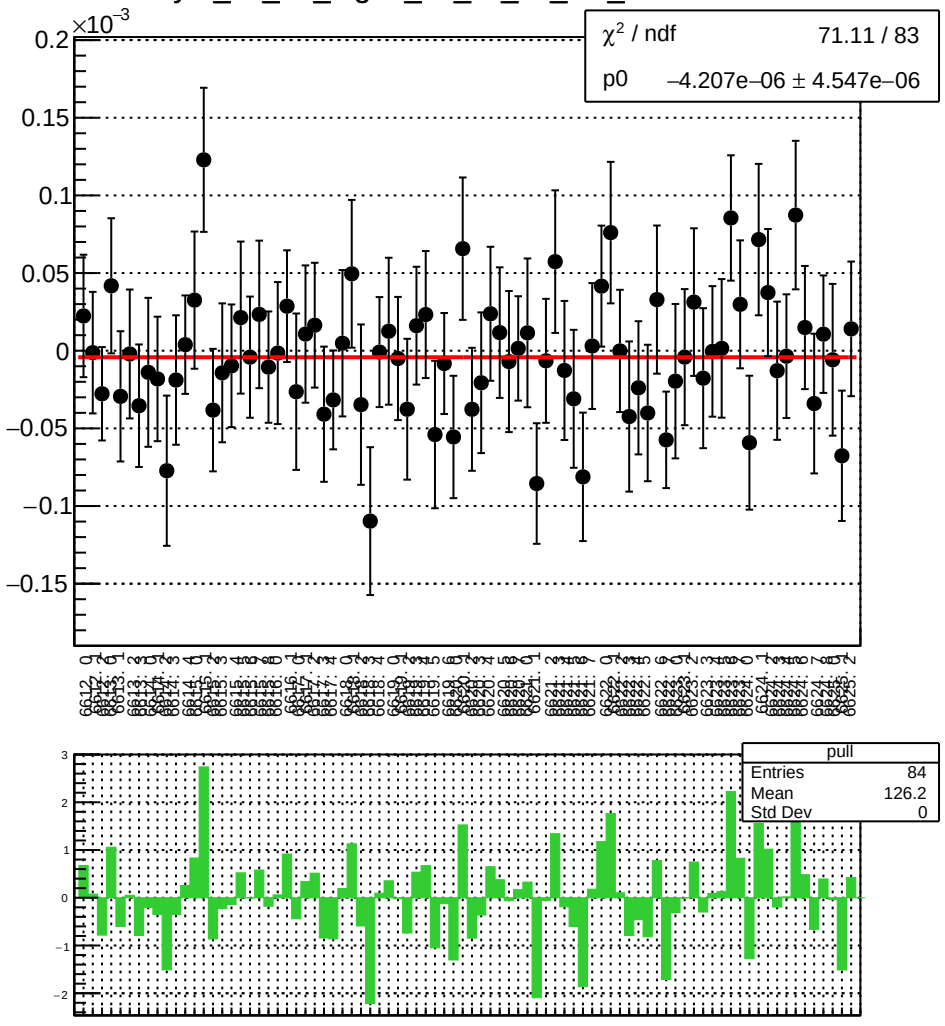

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 157.7 / 83
p0 1935 ± 1.515
2040
2020
2000
1980
1960
1940
1920
1900
1880

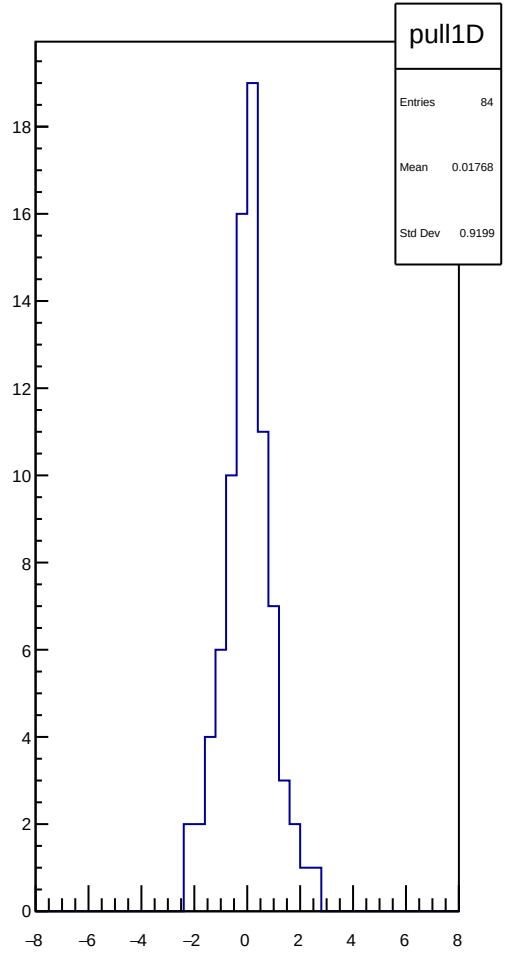

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.66 / 83
p0 2.483 ± 2.142
pull
Entries 84
Mean 1582
Std Dev 0
pull1D
Entries 84
Mean −0.002231
Std Dev 1.033

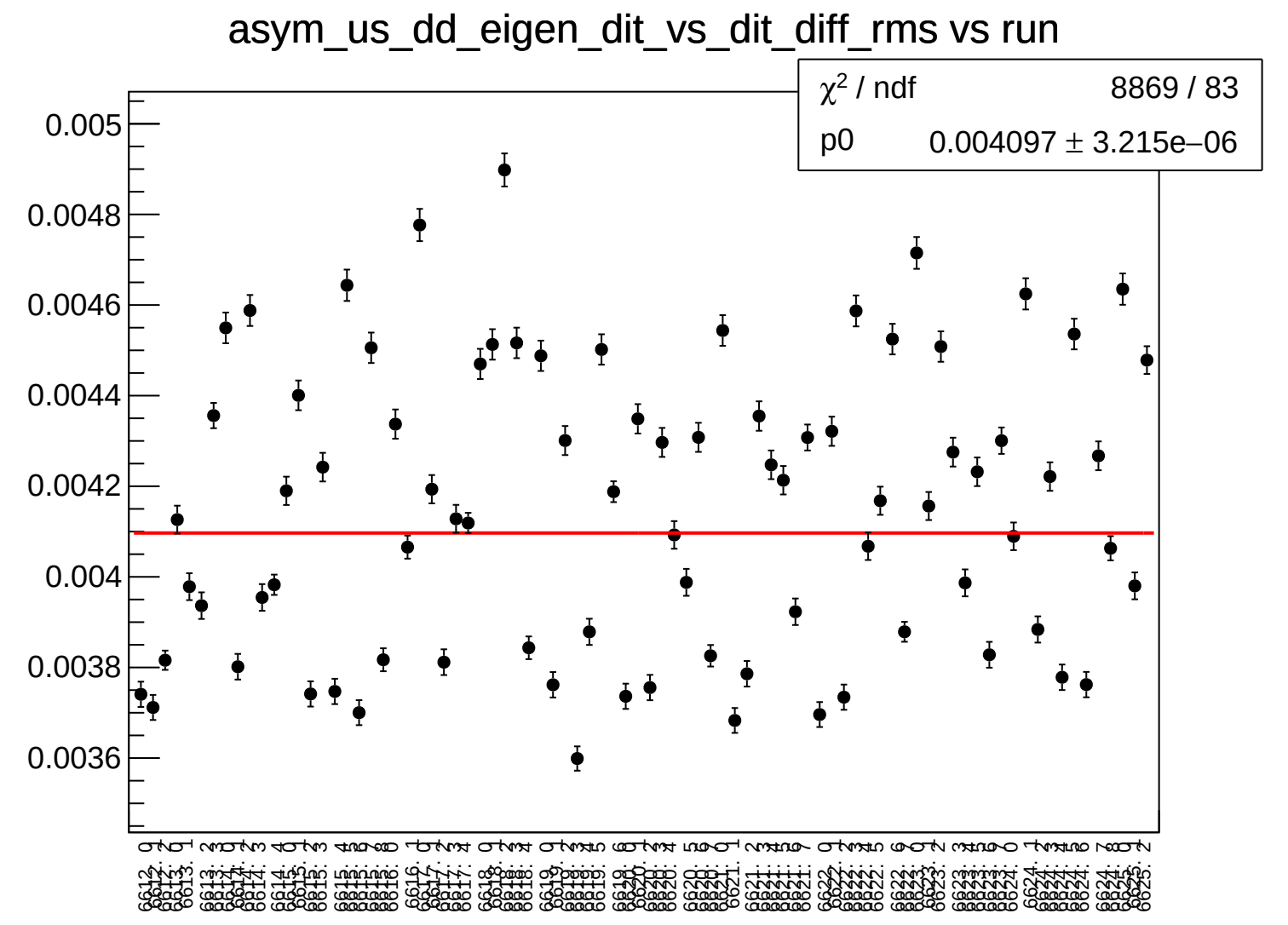

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 157.7 / 83
p0 1935 ± 1.515
2040
2020
2000
1980
1960
1940
1920
1900
1880

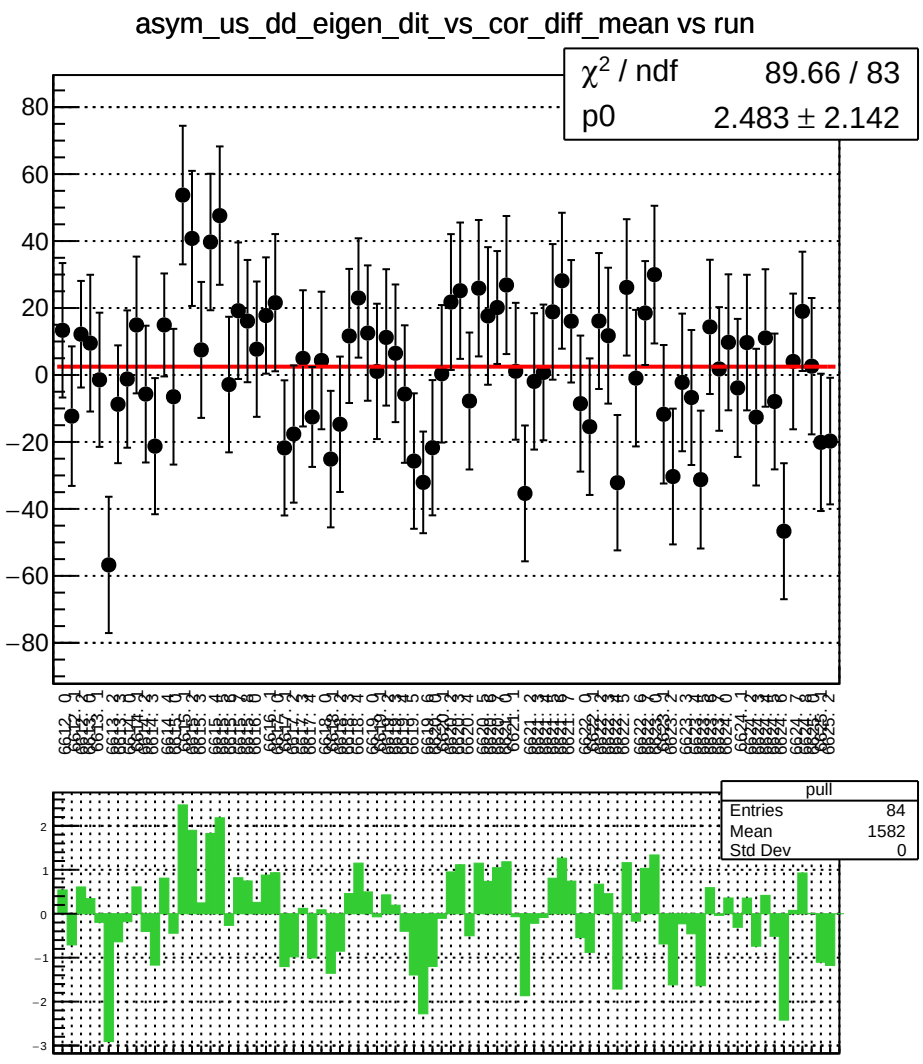

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 90.13 / 83
p0 2.427 ± 2.14
pull
Entries 84
Mean 1739
Std Dev 0
pull1D
Entries 84
Mean −0.001967
Std Dev 1.036

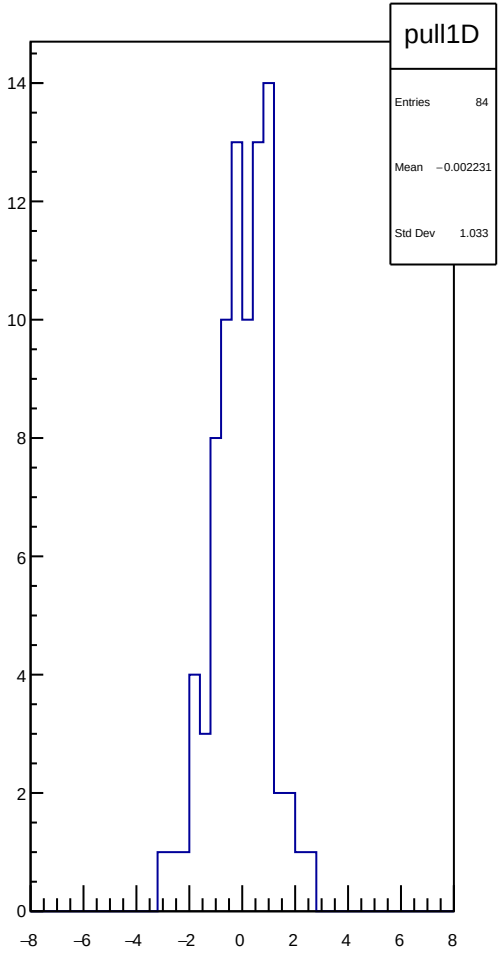

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 158.3 / 83
p0 1934 ± 1.513
2040
2020
2000
1980
1960
1940
1920
1900
1880

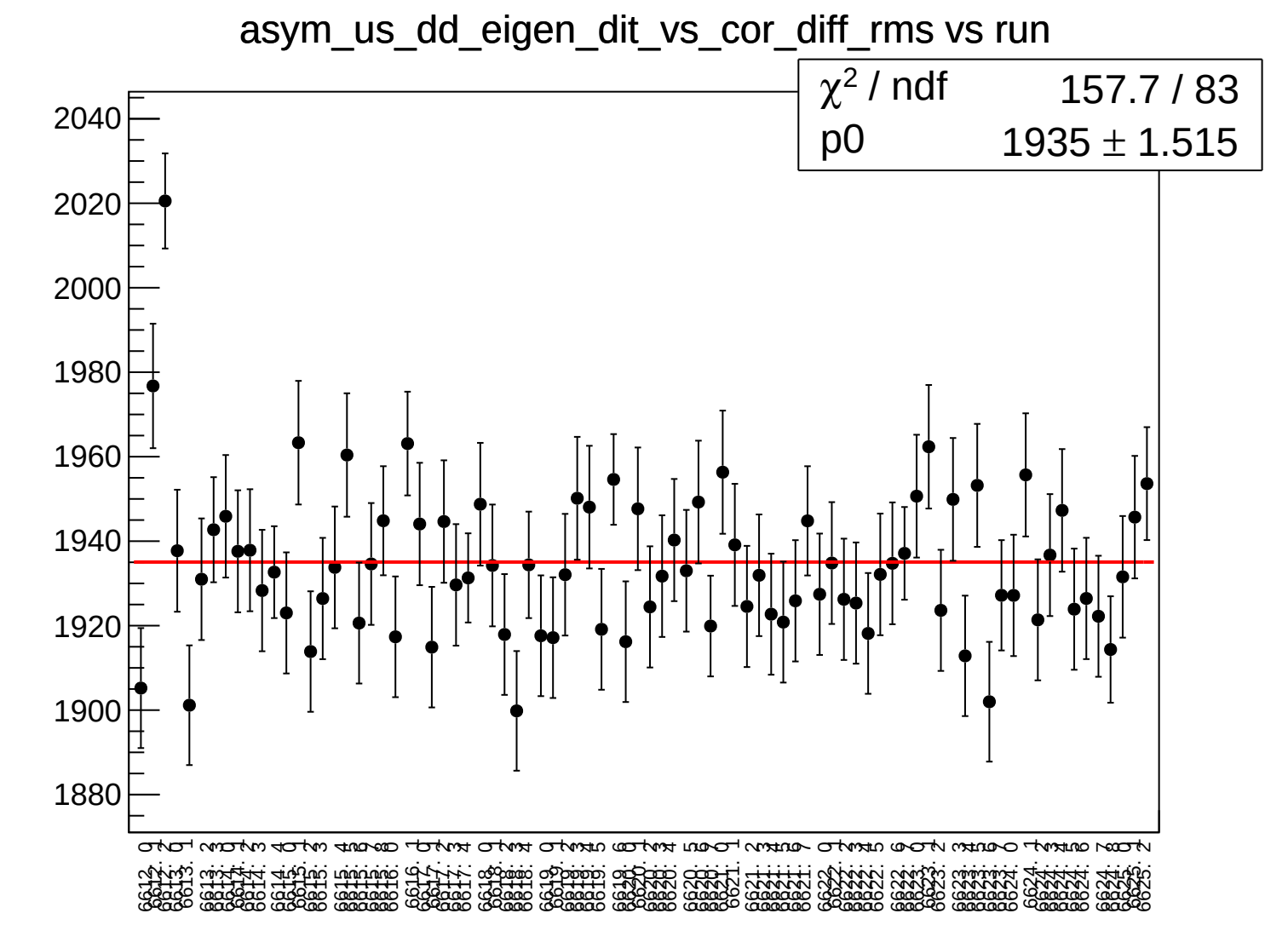

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 71.11 / 83
p0 −4.207e−06 ± 4.547e−06
pull
Entries 84
Mean 126.2
Std Dev 0

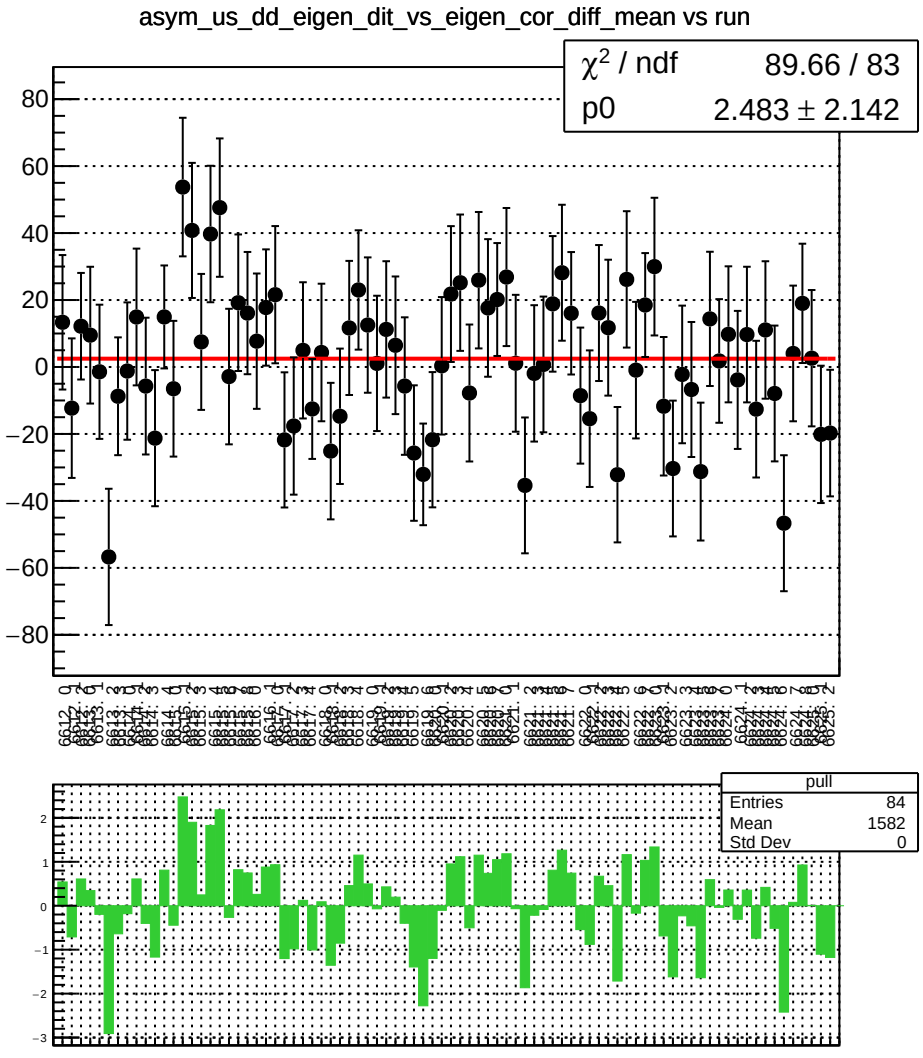

pull1D
Entries 84
Mean 0.01768
Std Dev 0.9199

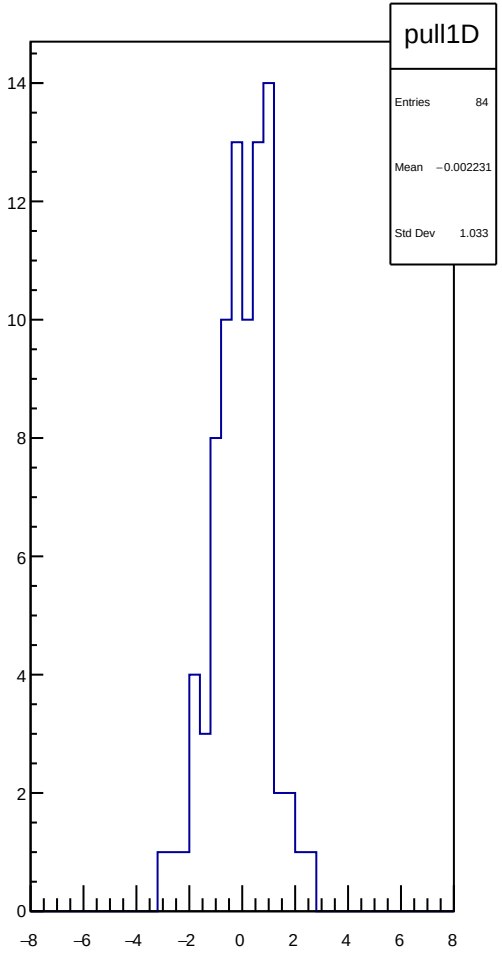

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8869 / 83
p0 0.004097 ± 3.215e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

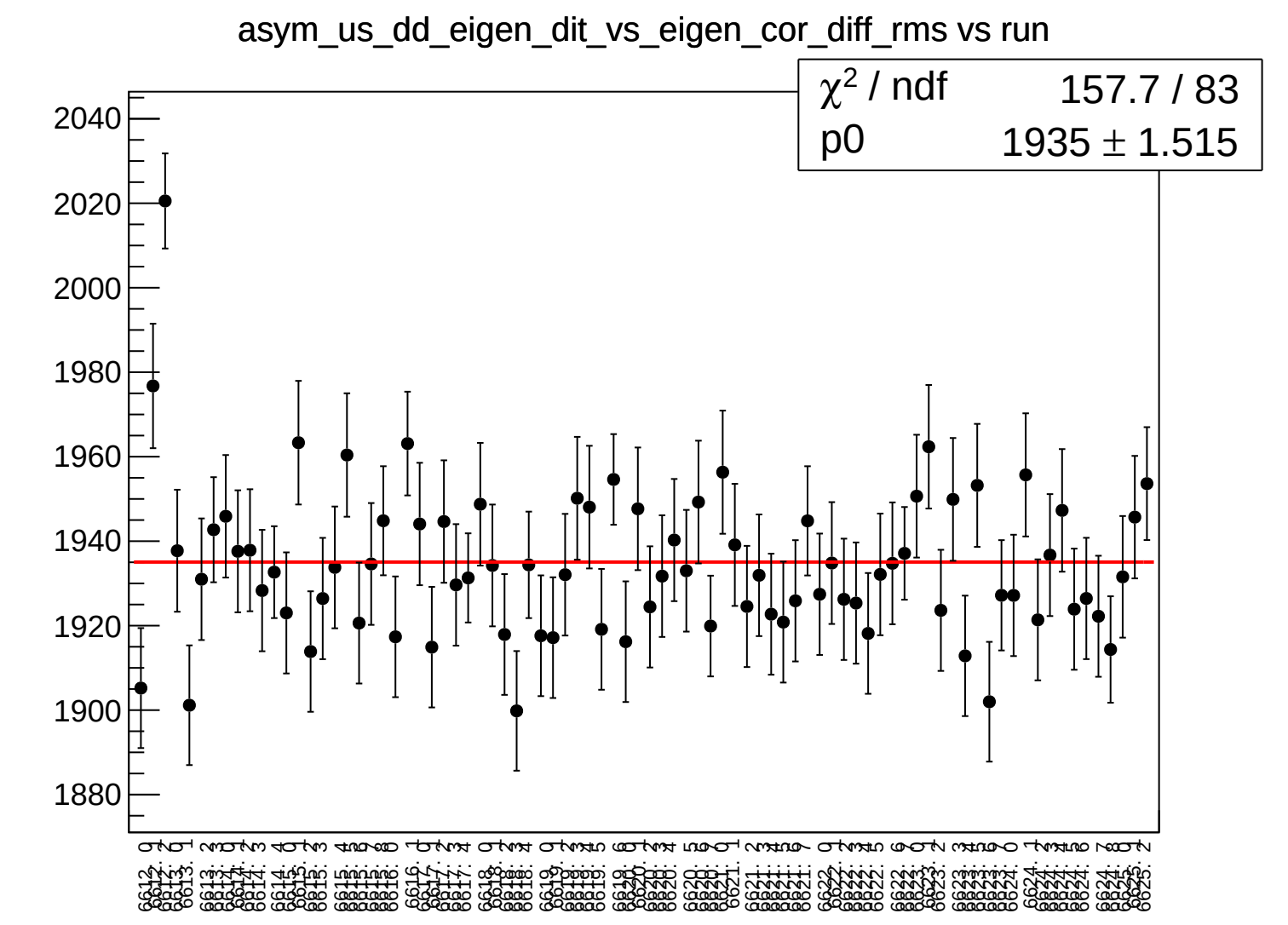

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.66 / 83
p0 2.483 ± 2.142
pull
Entries 84
Mean 1582
Std Dev 0

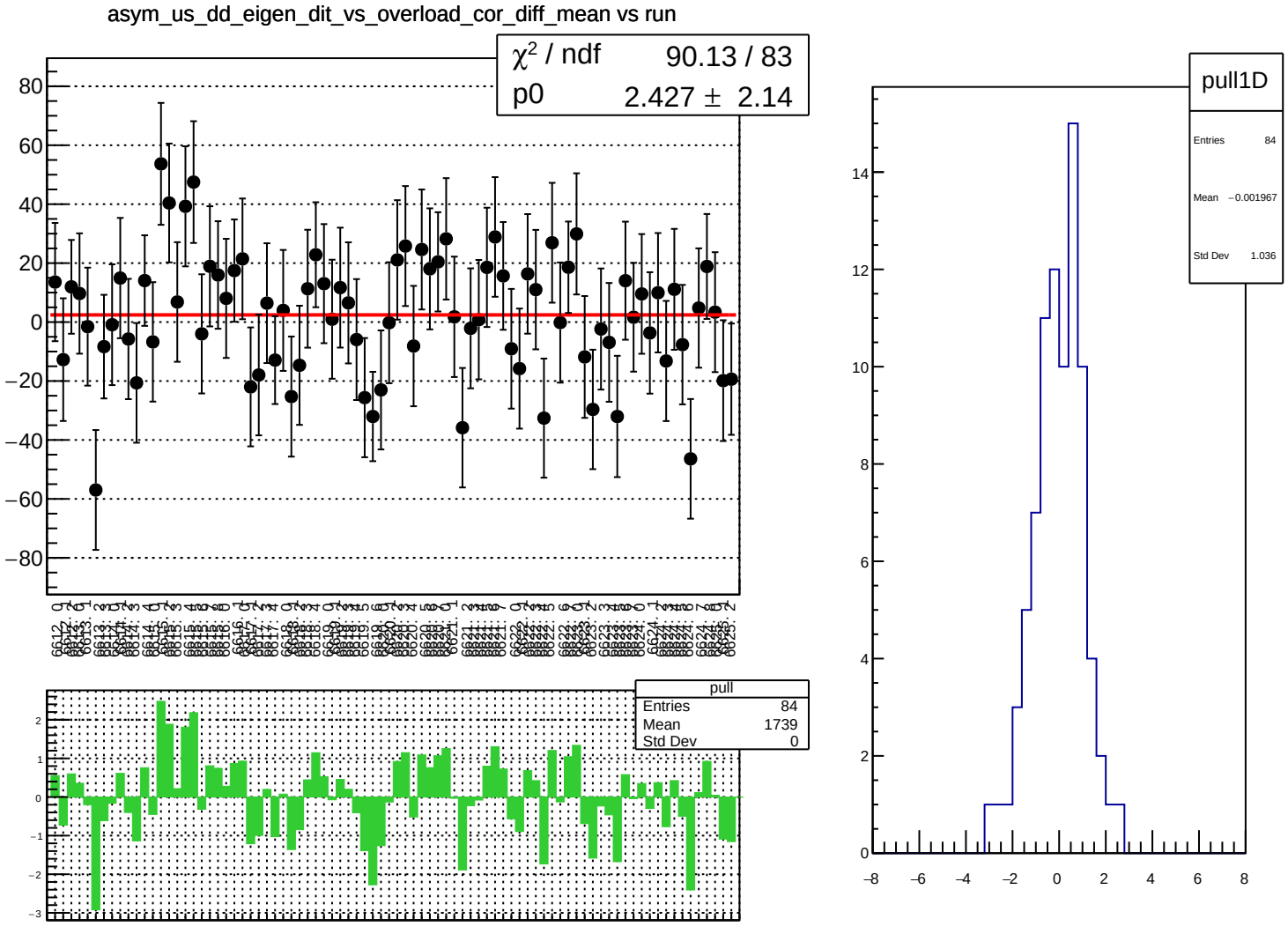

pull1D
Entries 84
Mean −0.002231
Std Dev 1.033

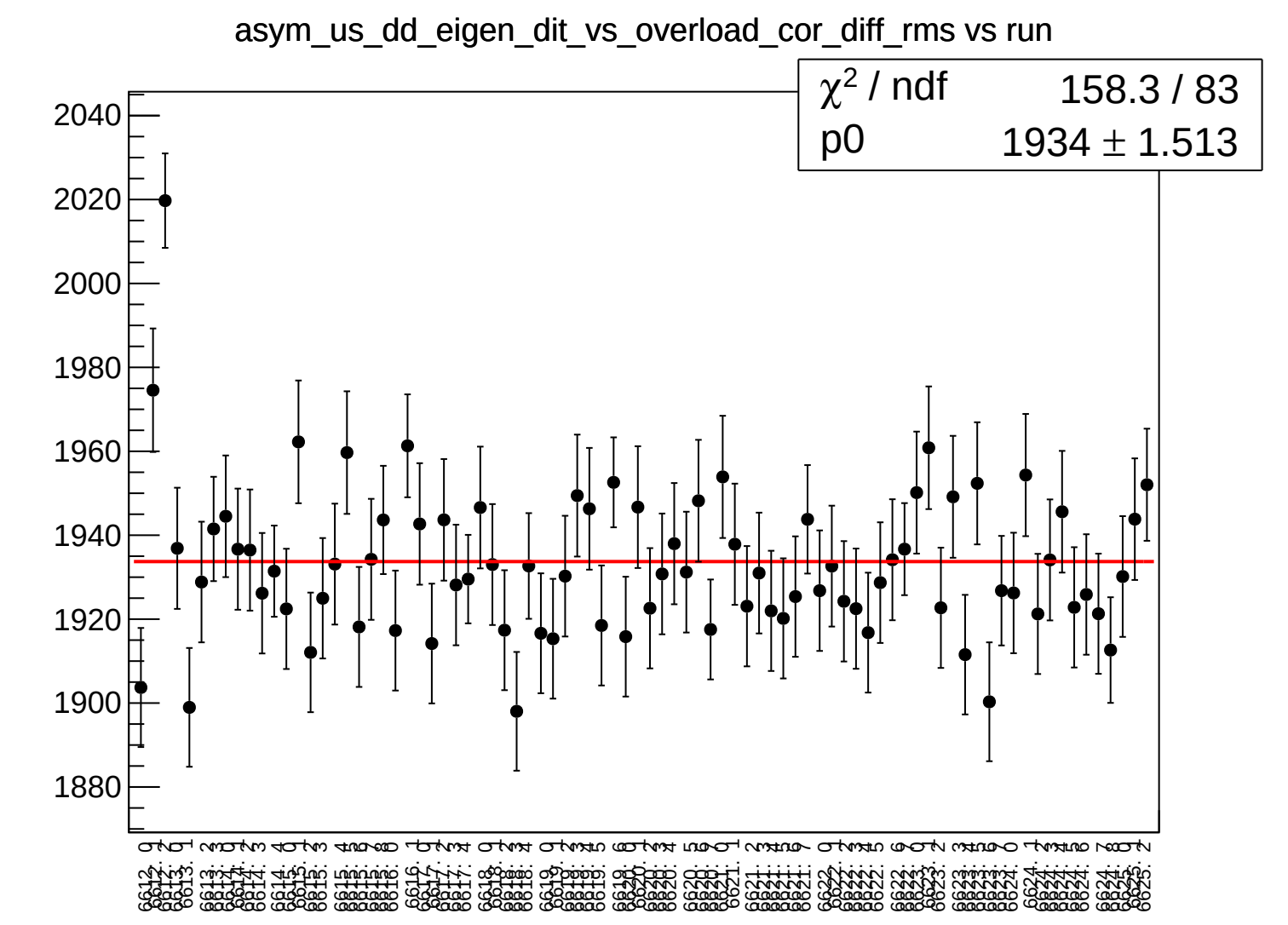

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 157.7 / 83
p0 1935 ± 1.515
2040
2020
2000
1980
1960
1940
1920
1900
1880

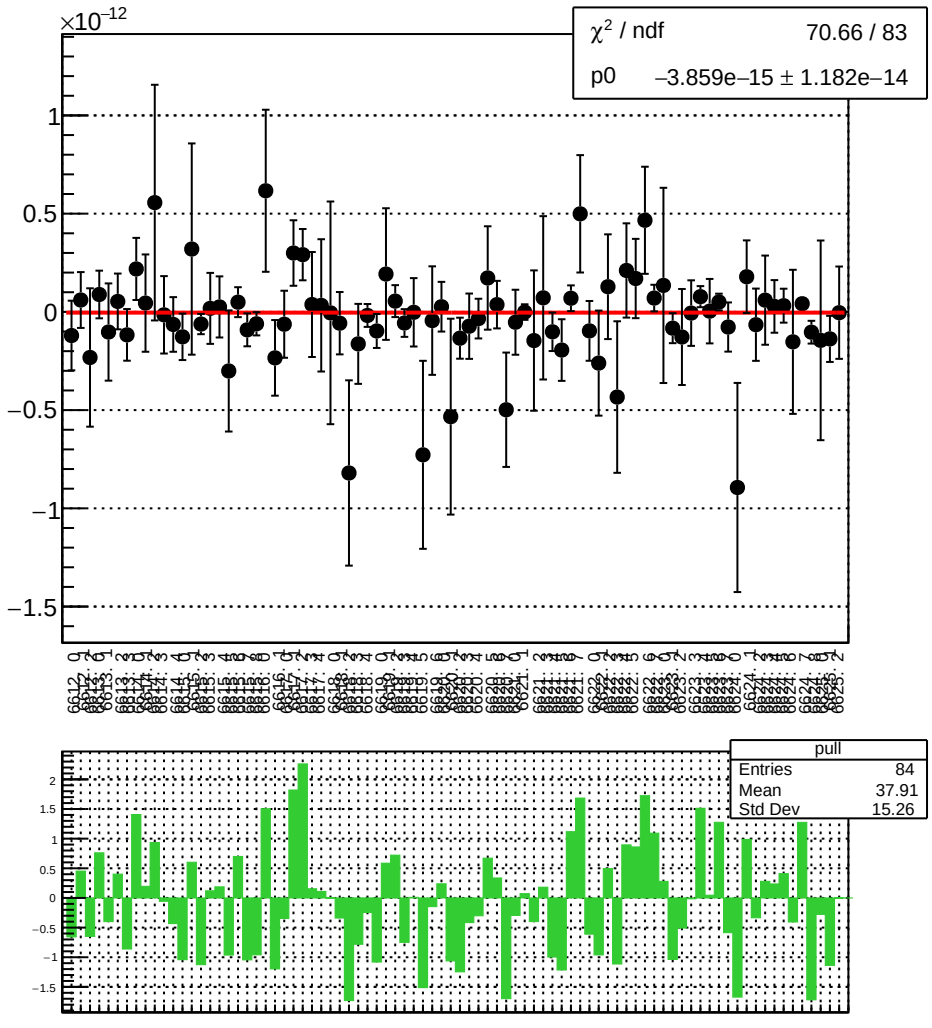

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.66 / 83
p0 2.483 ± 2.142
pull
Entries 84
Mean 1582
Std Dev 0

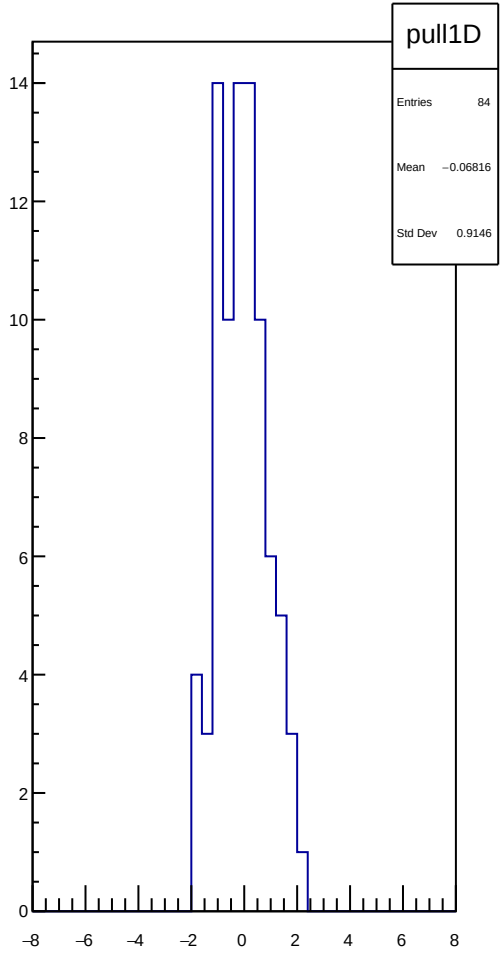

pull1D
Entries 84
Mean −0.002231
Std Dev 1.033

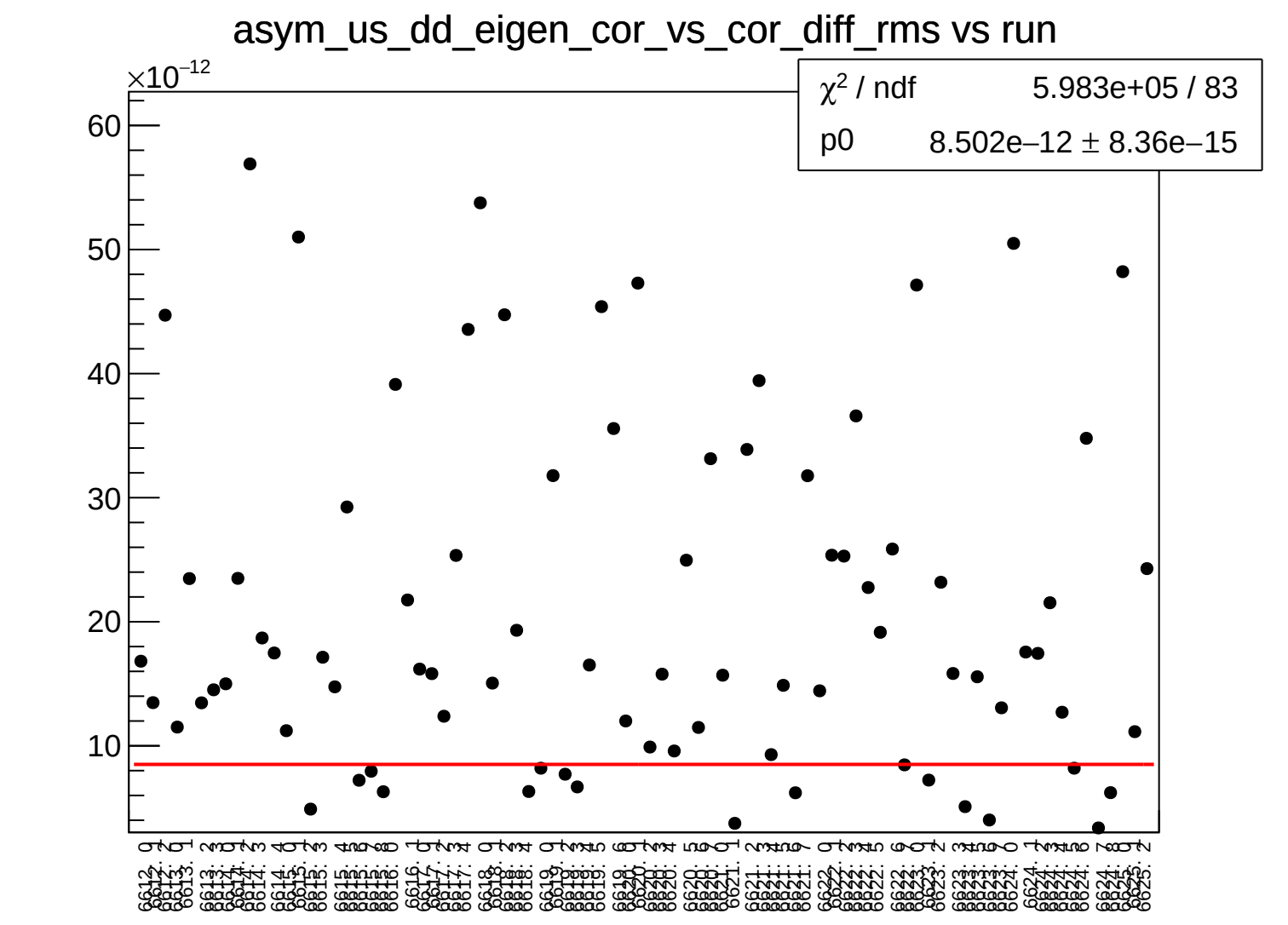

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 157.7 / 83
p0 1935 ± 1.515
2040
2020
2000
1980
1960
1940
1920
1900
1880

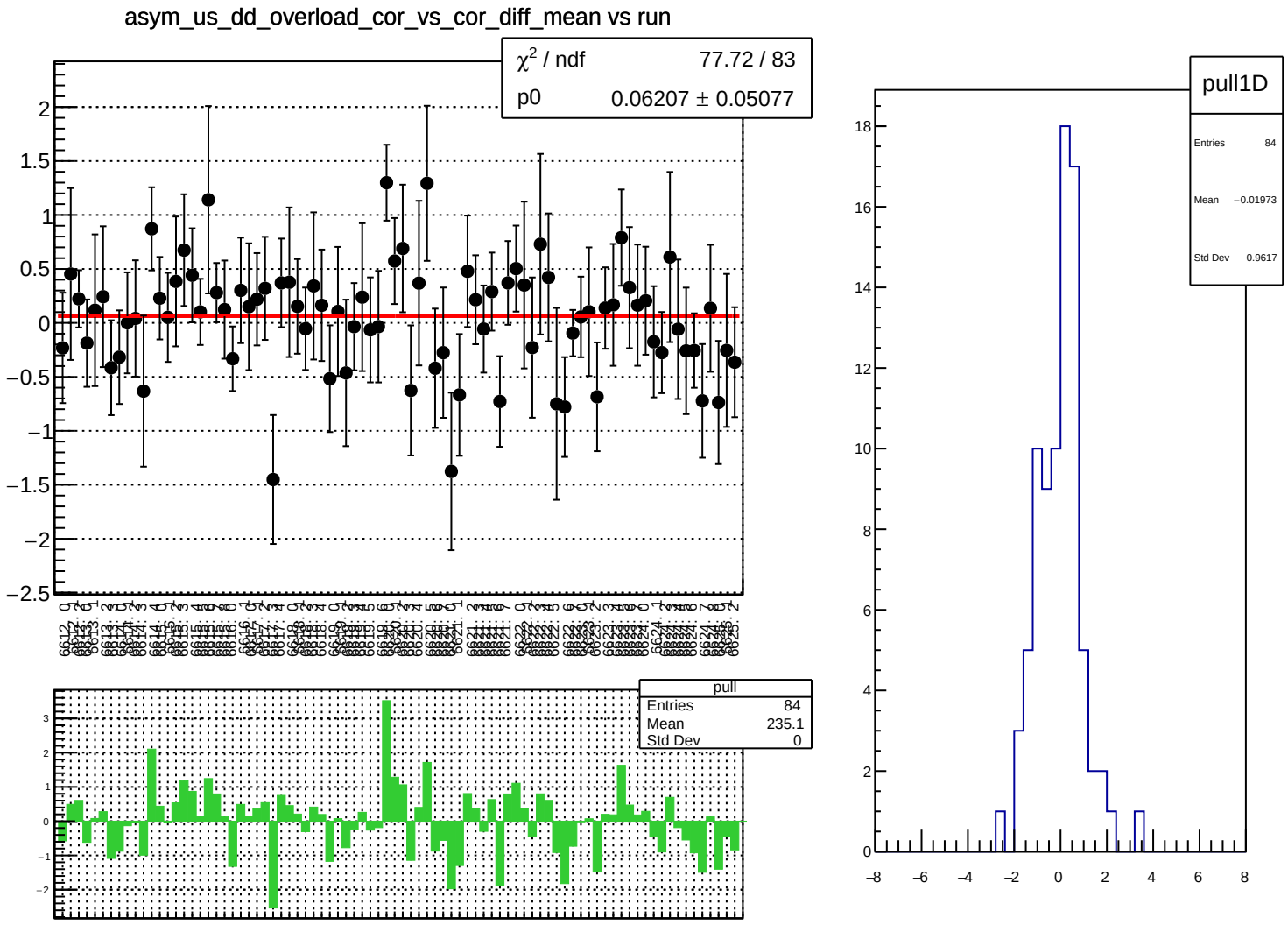

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 90.13 / 83
p0 2.427 ± 2.14
pull
Entries 84
Mean 1739
Std Dev 0
pull1D
Entries 84
Mean −0.001967
Std Dev 1.036

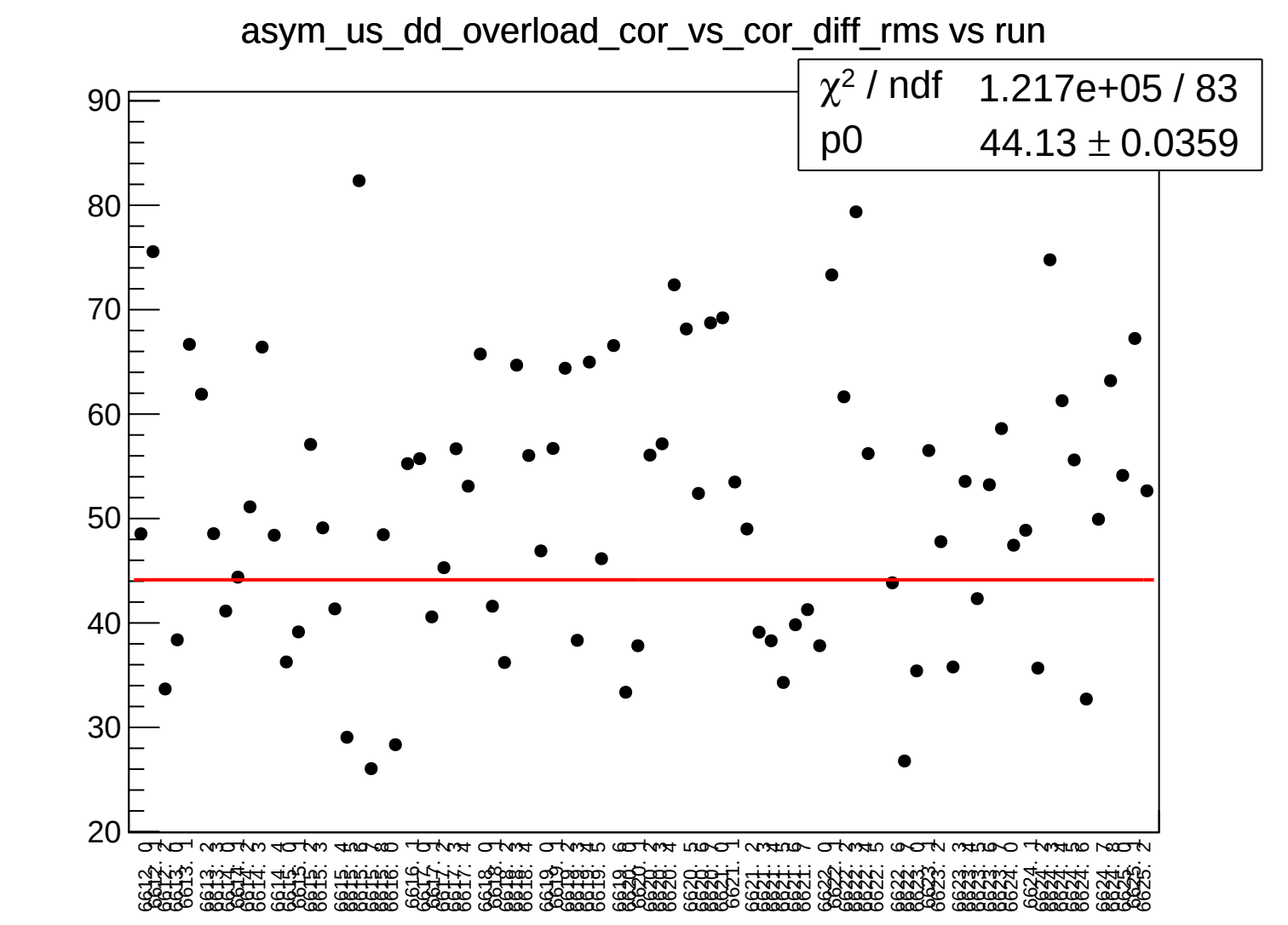

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 158.3 / 83
p0 1934 ± 1.513
2040
2020
2000
1980
1960
1940
1920
1900
1880

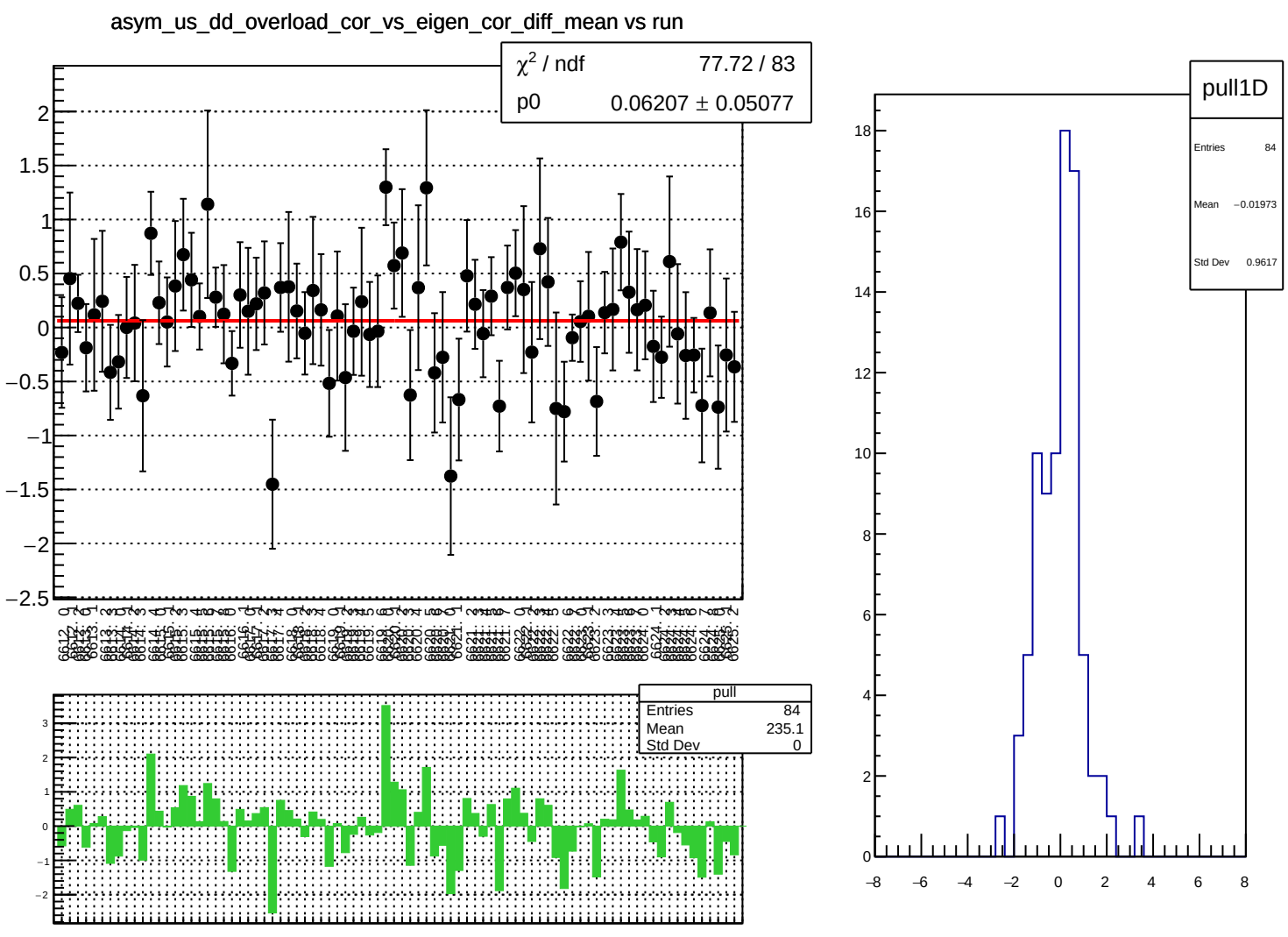

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.66 / 83
p0 −3.859e−15 ± 1.182e−14
pull
Entries 84
Mean 37.91
Std Dev 15.26

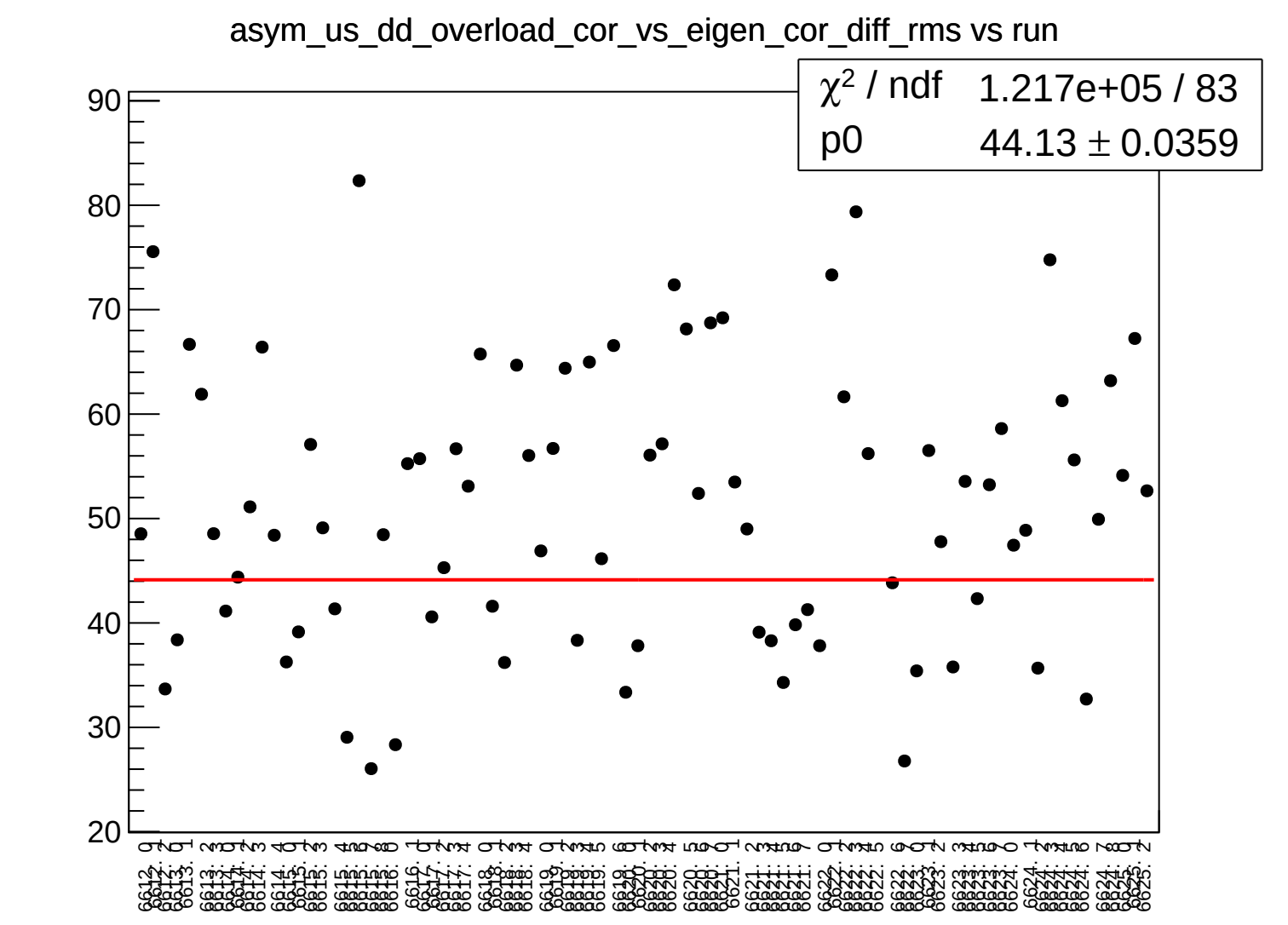

pull1D
Entries 84
Mean −0.06816
Std Dev 0.9146

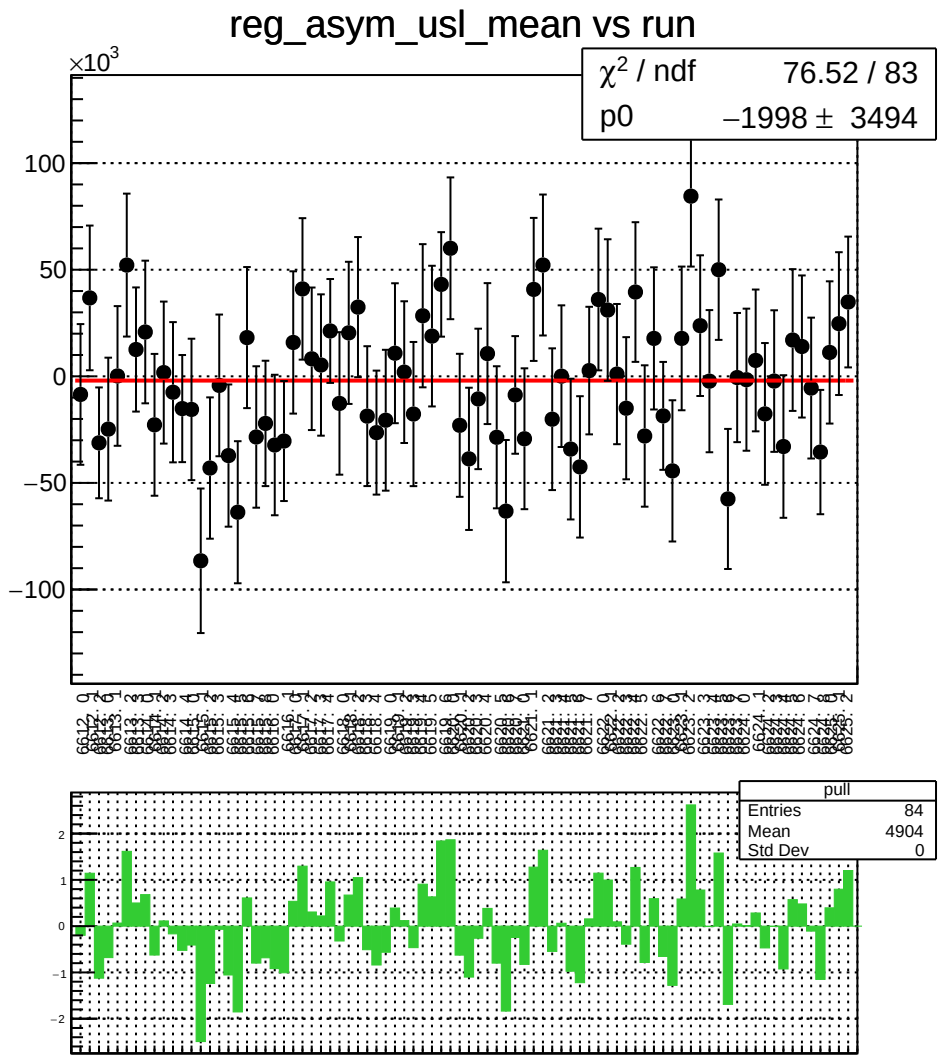

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.983e+05 / 83
p0 8.502e−12 ± 8.36e−15
60
50
40
30
20
10

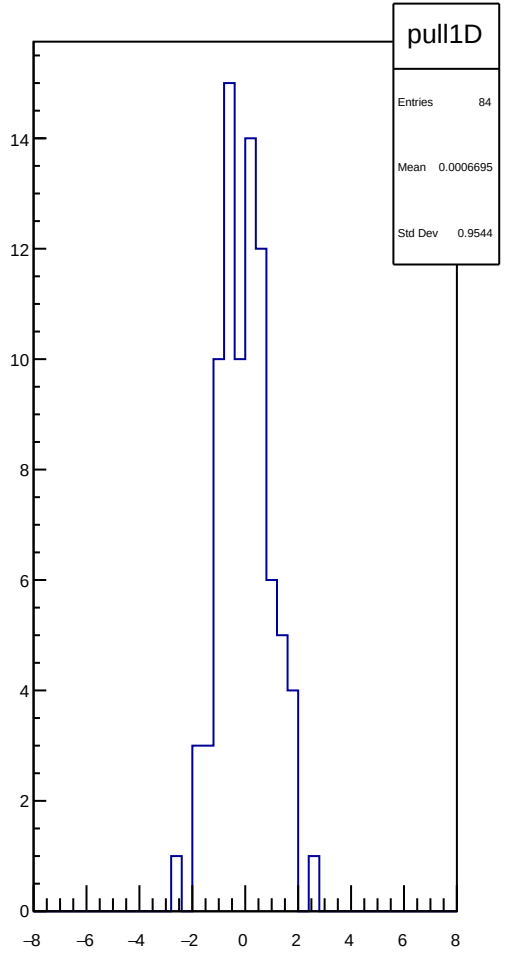

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 77.72 / 83
p0 0.06207 ± 0.05077
pull
Entries 84
Mean 235.1
Std Dev 0
pull1D
Entries 84
Mean −0.01973
Std Dev 0.9617

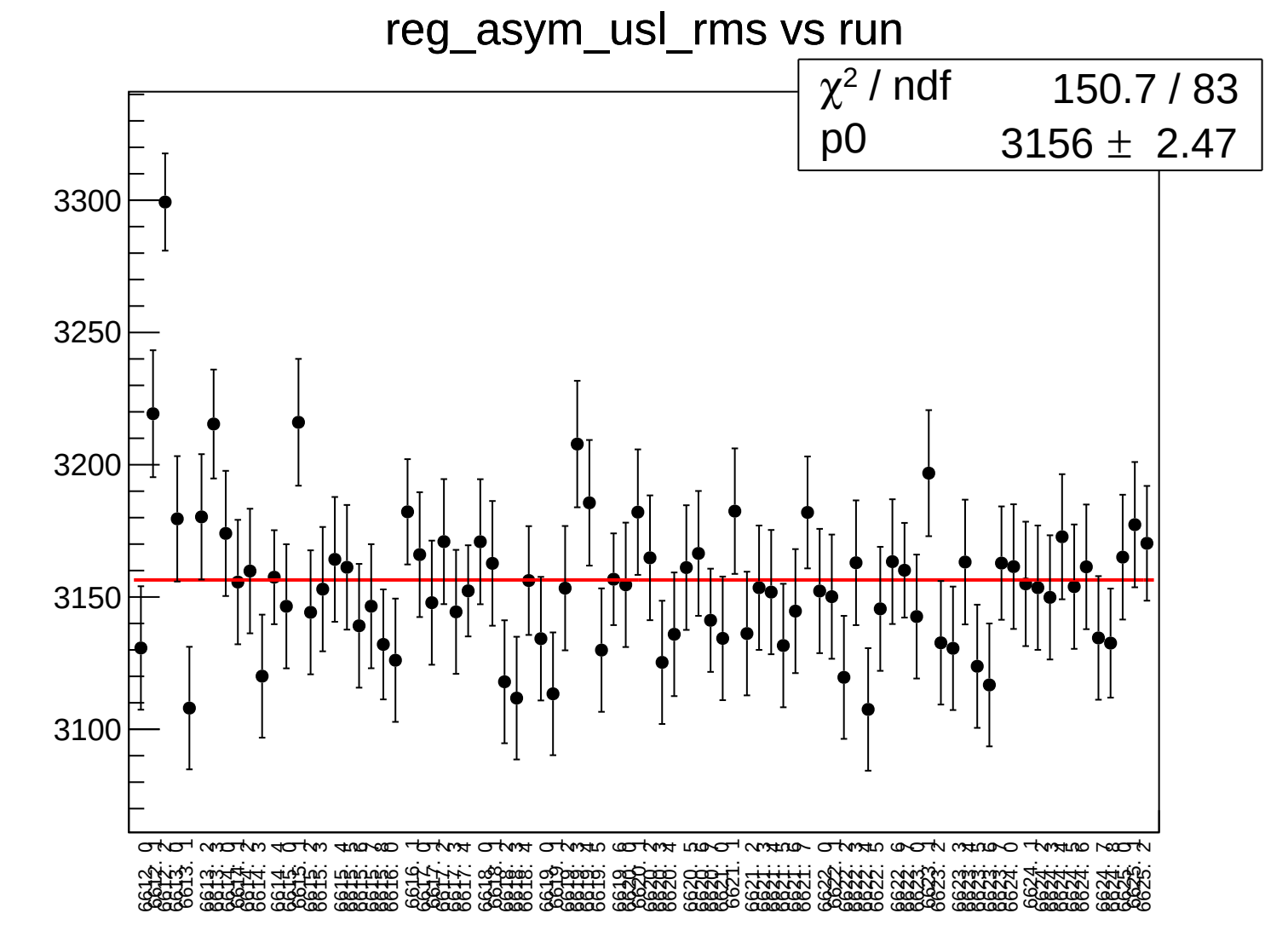

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.217e+05 / 83
p0 44.13 ± 0.0359
90
80
70
60
50
40
30
20

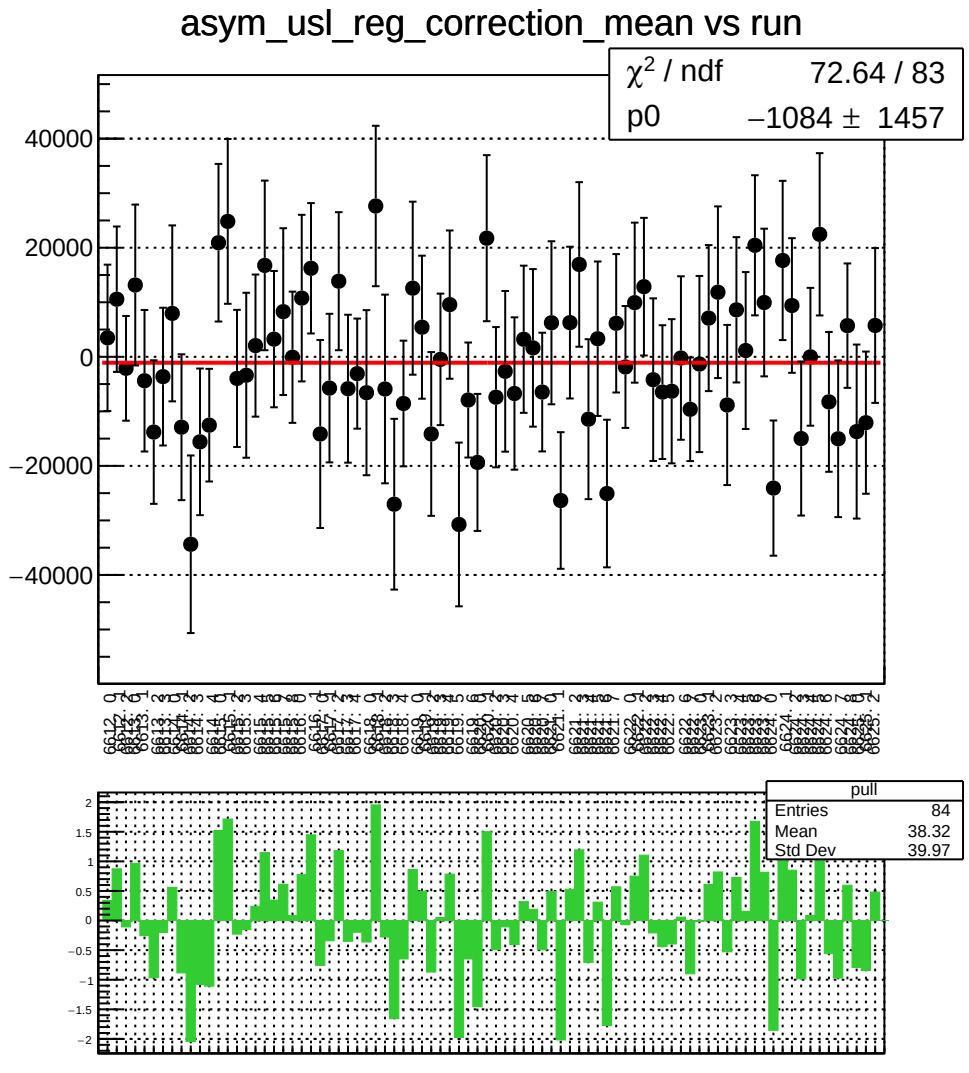

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.72 / 83
p0 0.06207 ± 0.05077
pull
Entries 84
Mean 235.1
Std Dev 0
pull1D
Entries 84
Mean −0.01973
Std Dev 0.9617

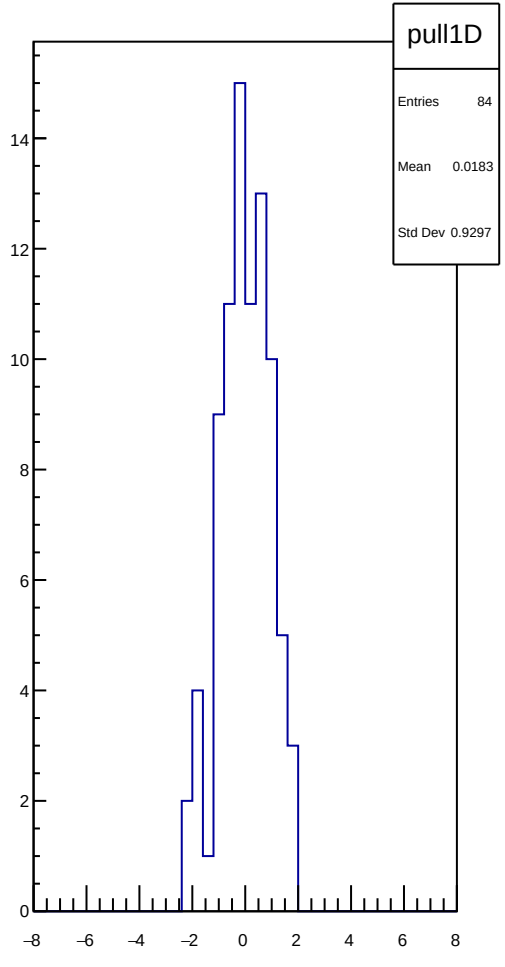

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.217e+05 / 83
p0 44.13 ± 0.0359
90
80
70
60
50
40
30
20

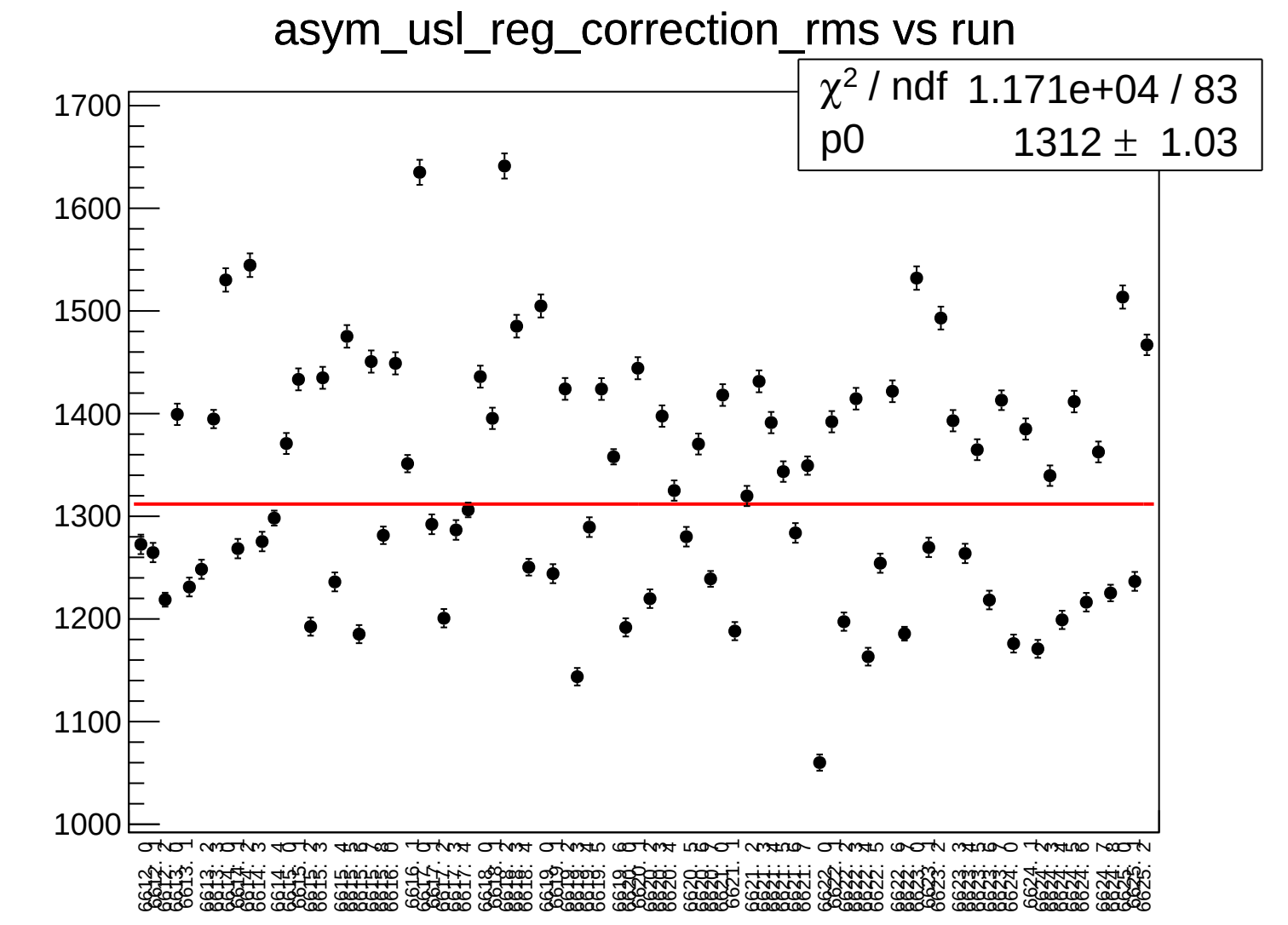

reg_asym_usl_mean vs run
×10^3
χ² / ndf 76.52 / 83
p0 −1998 ± 3494
100
50
0
−50
−100
pull
Entries 84
Mean 4904
Std Dev 0
2
1
0
−1
−2

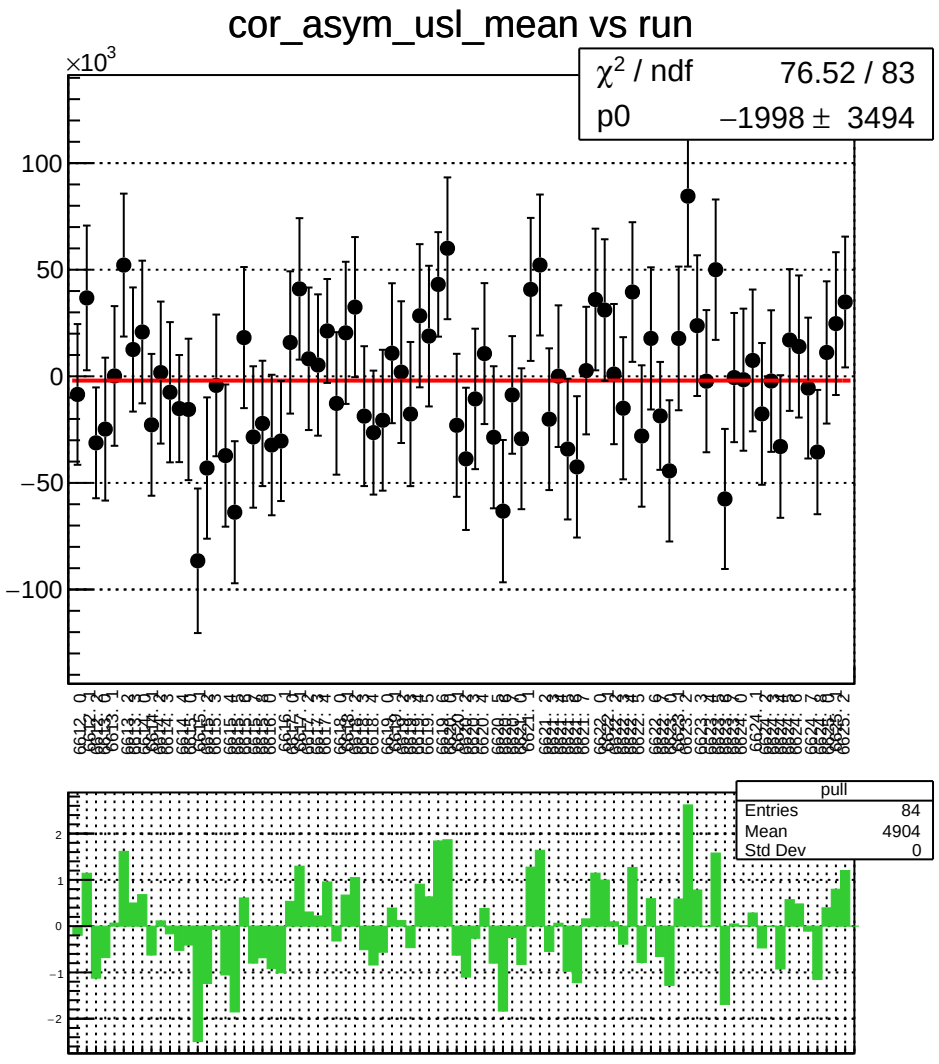

pull1D
Entries 84
Mean 0.0006695
Std Dev 0.9544
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

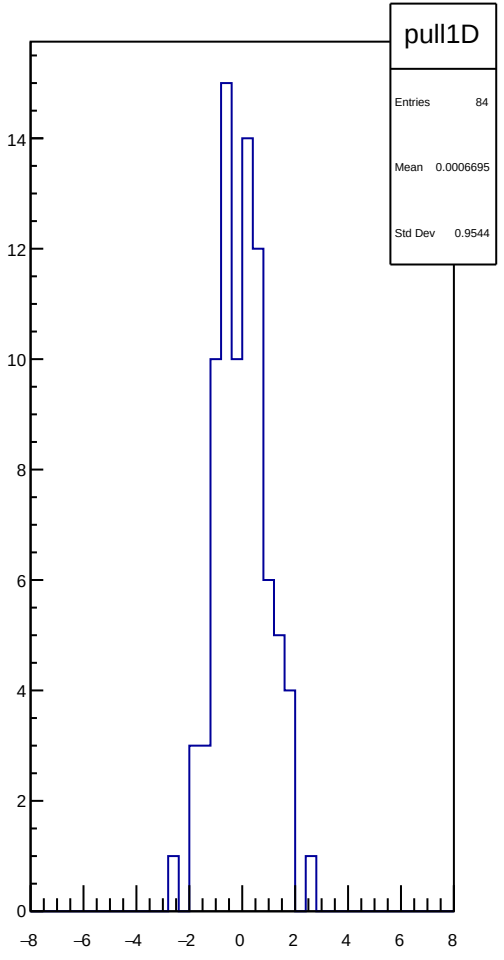

reg_asym_usl_rms vs run
χ² / ndf 150.7 / 83
p0 3156 ± 2.47
3300
3250
3200
3150
3100

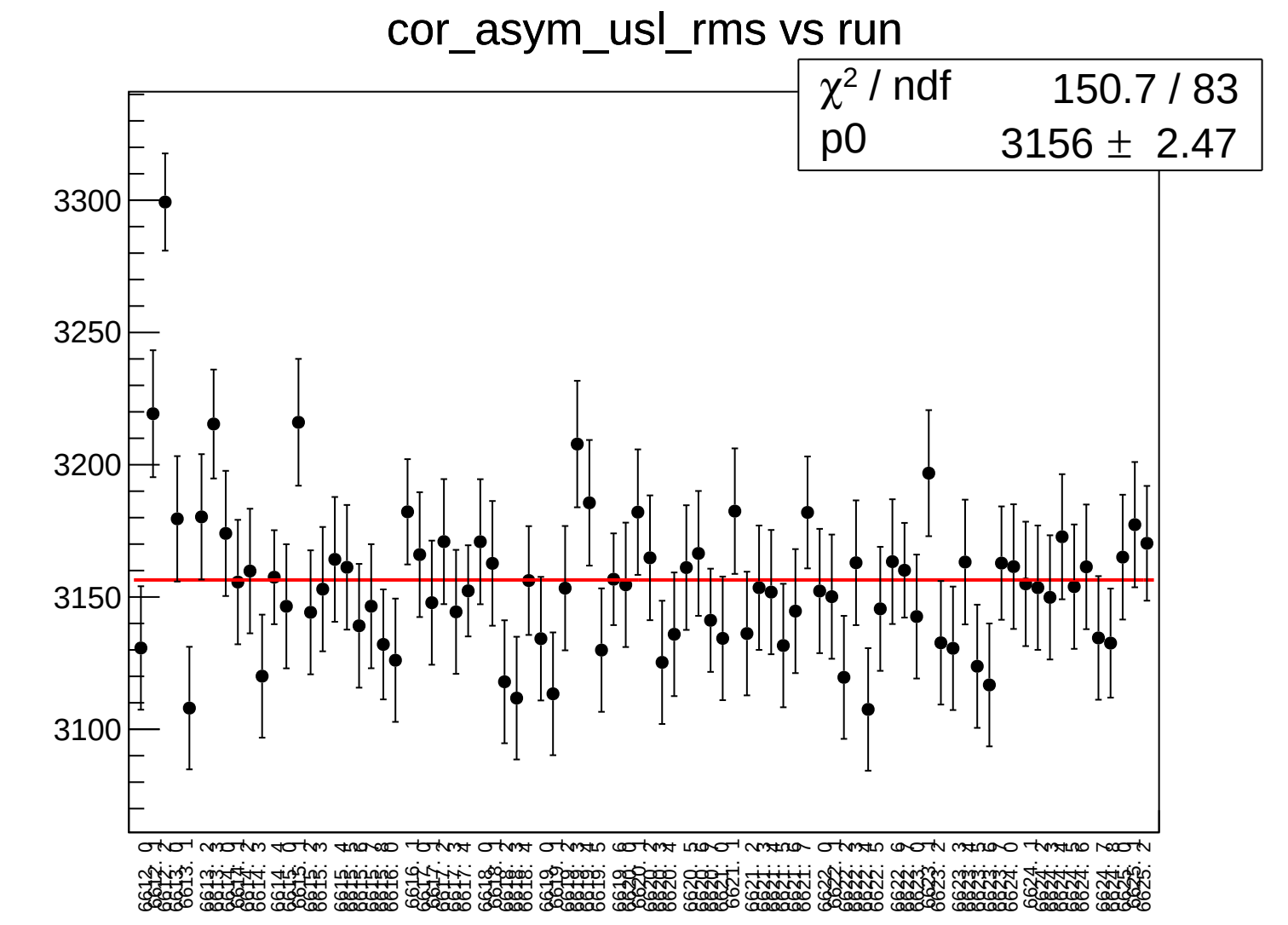

asym_usl_reg_correction_mean vs run
χ² / ndf 72.64 / 83
p0 −1084 ± 1457
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 38.32
Std Dev 39.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

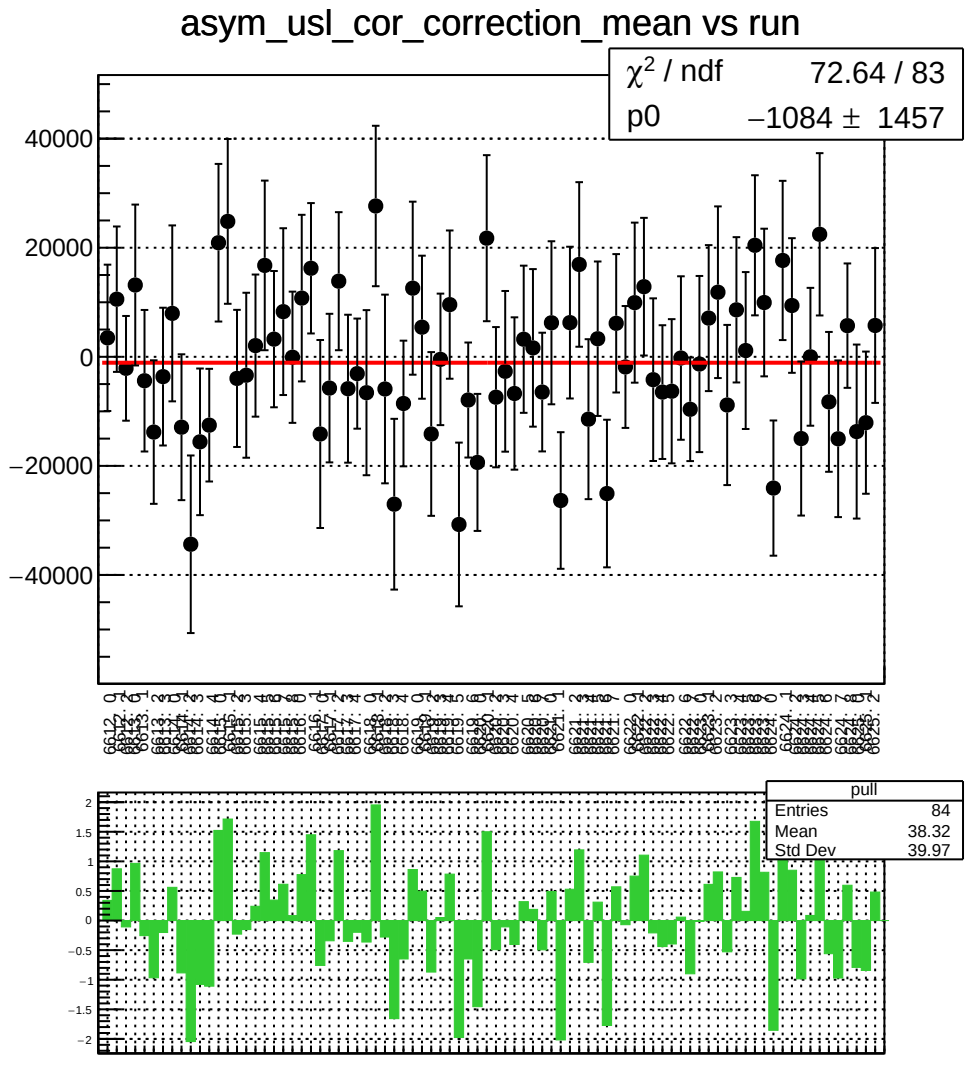

pull1D
Entries 84
Mean 0.0183
Std Dev 0.9297
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

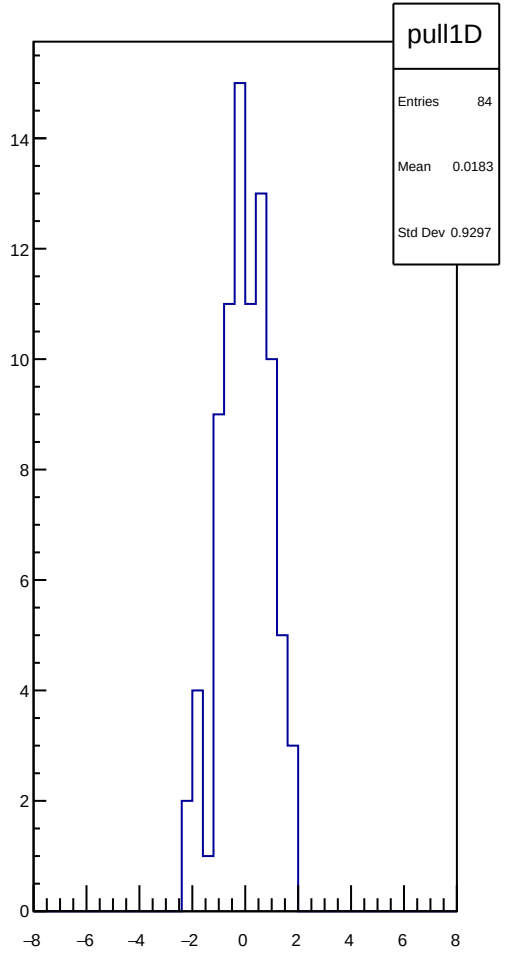

asym_usl_reg_correction_rms vs run
χ² / ndf 1.171e+04 / 83
p0 1312 ± 1.03
1700
1600
1500
1400
1300
1200
1100
1000

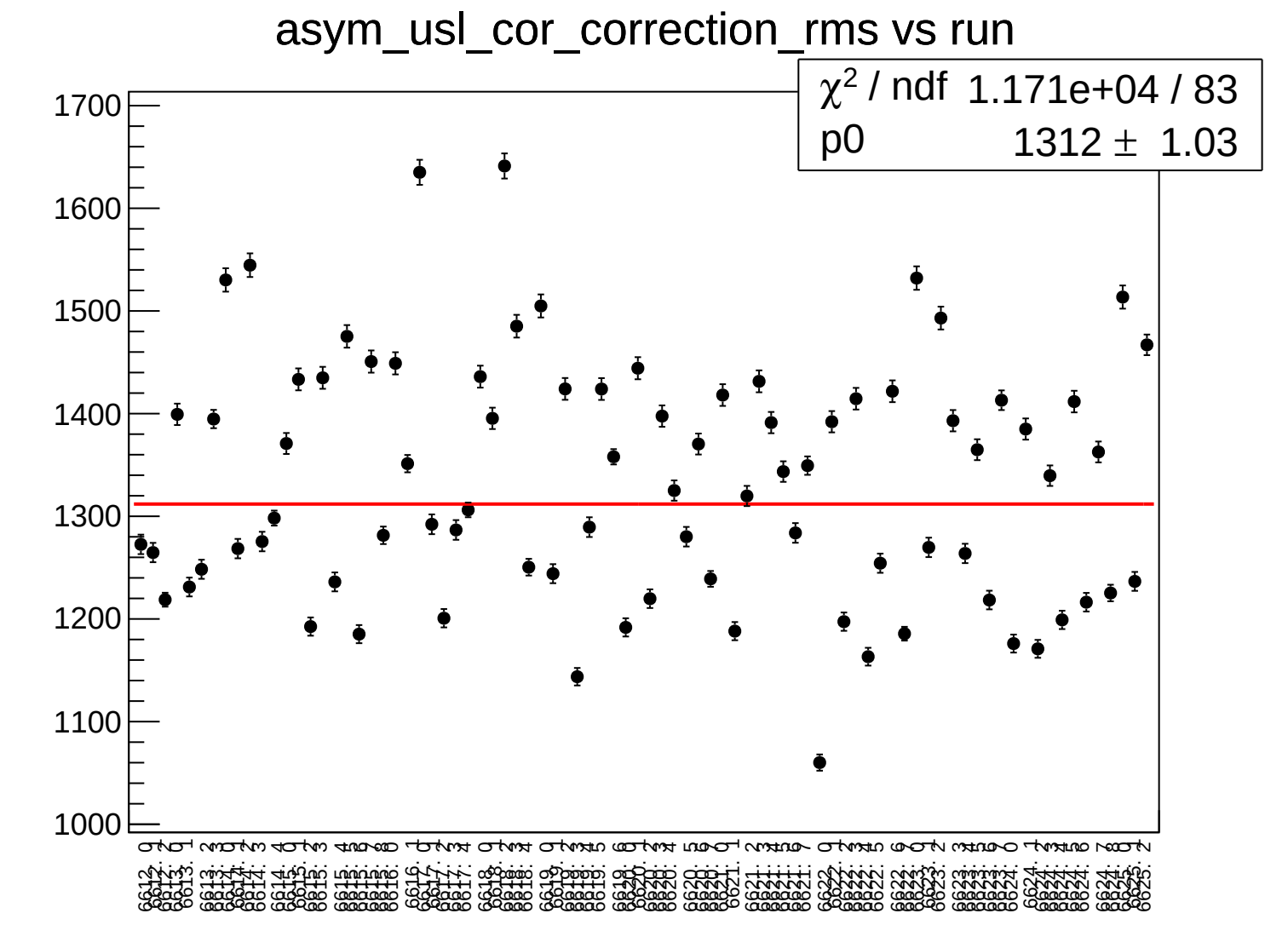

cor_asym_usl_mean vs run
×10^3
χ² / ndf 76.52 / 83
p0 −1998 ± 3494
100
50
0
−50
−100
pull
Entries 84
Mean 4904
Std Dev 0
2
1
0
−1
−2

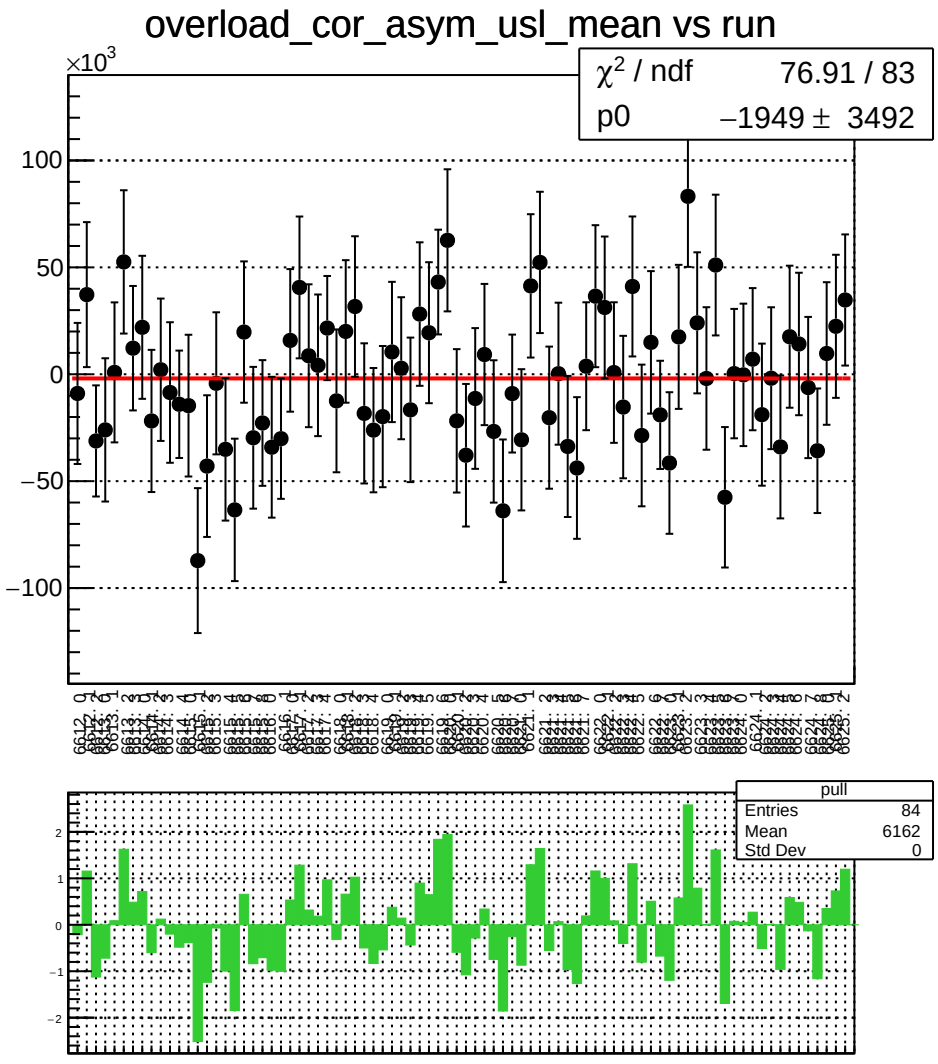

pull1D
Entries 84
Mean 0.0006695
Std Dev 0.9544
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

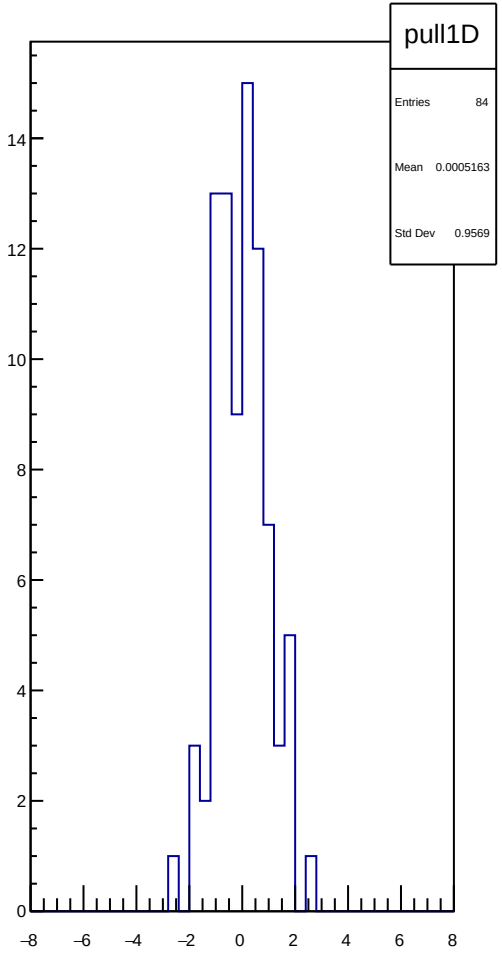

cor_asym_usl_rms vs run
χ² / ndf 150.7 / 83
p0 3156 ± 2.47
3300
3250
3200
3150
3100

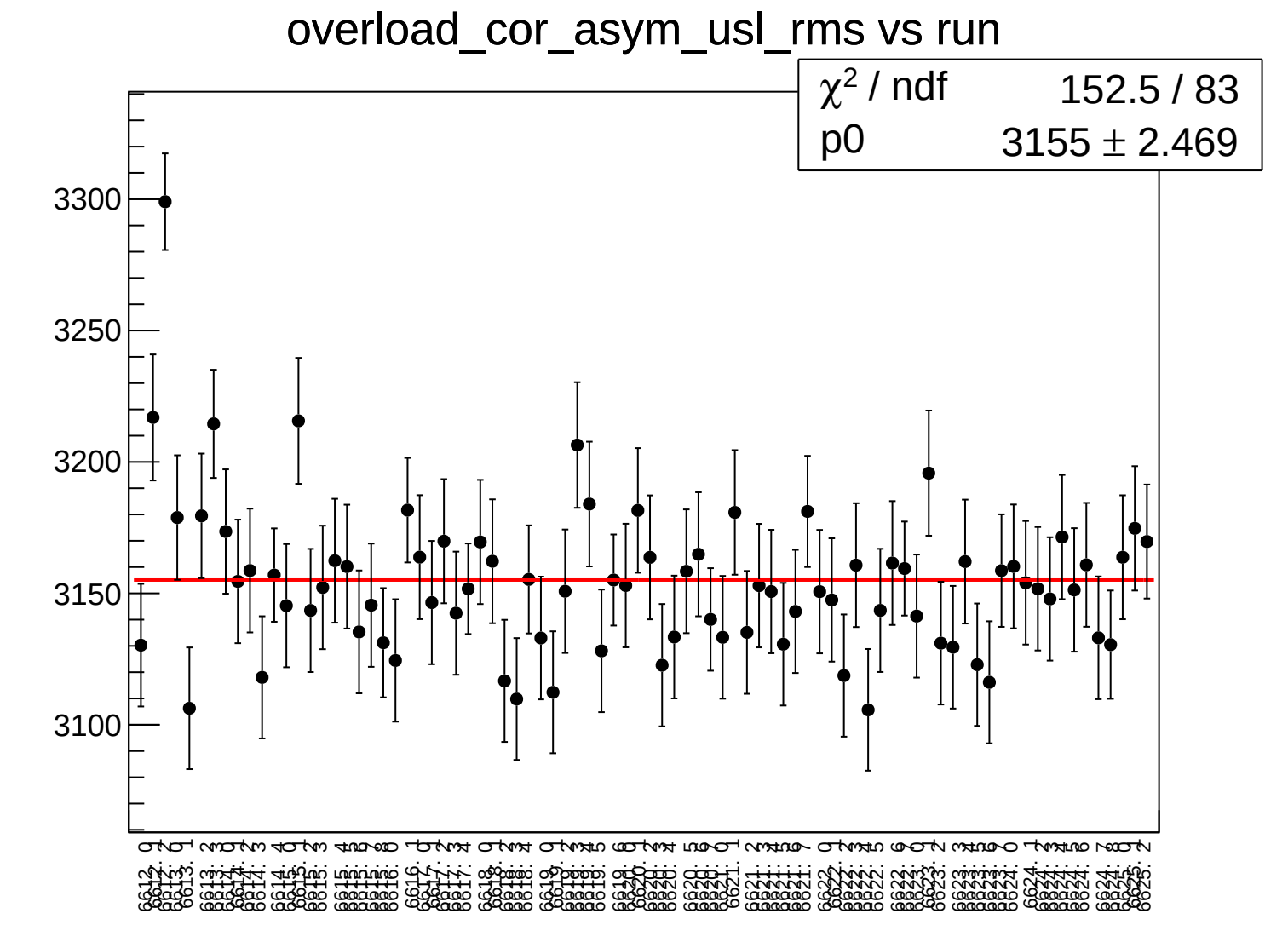

asym_usl_cor_correction_mean vs run
χ² / ndf 72.64 / 83
p0 −1084 ± 1457
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 38.32
Std Dev 39.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

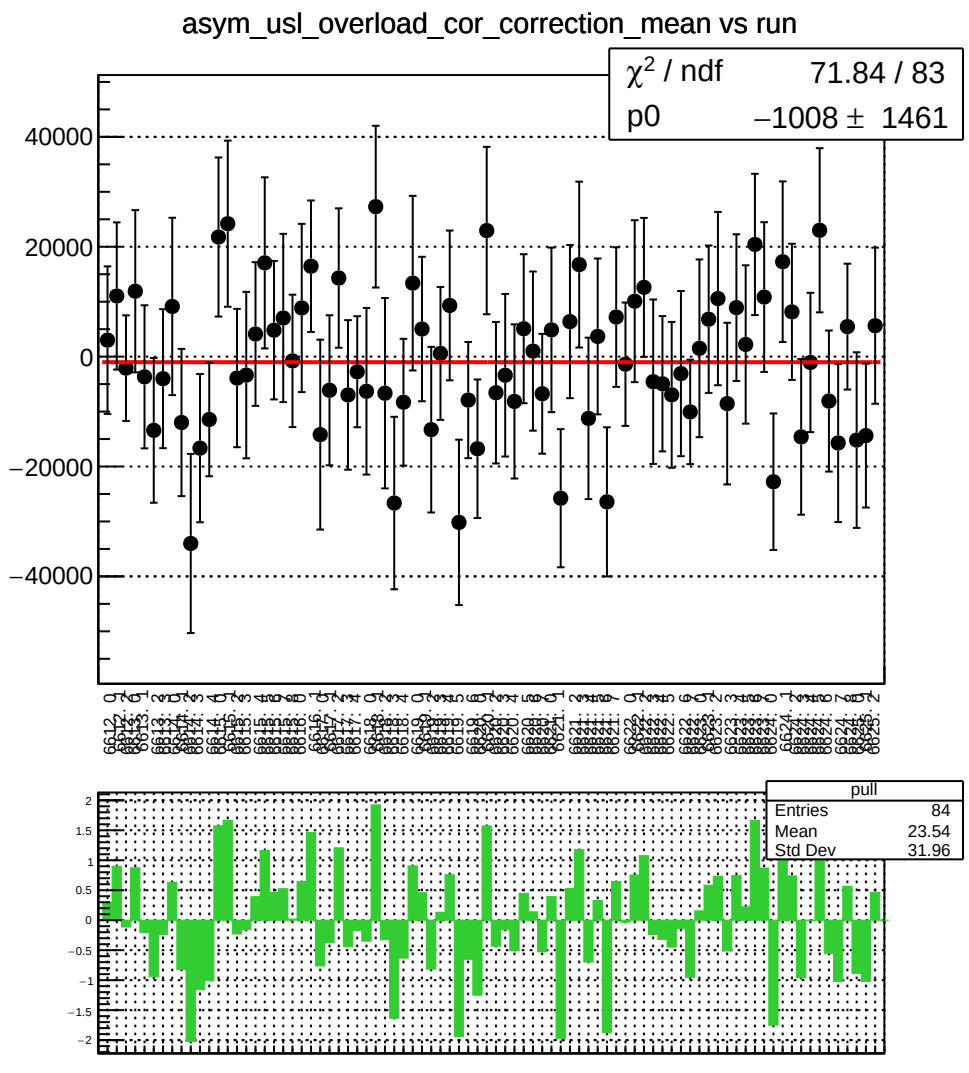

pull1D
Entries 84
Mean 0.0183
Std Dev 0.9297
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

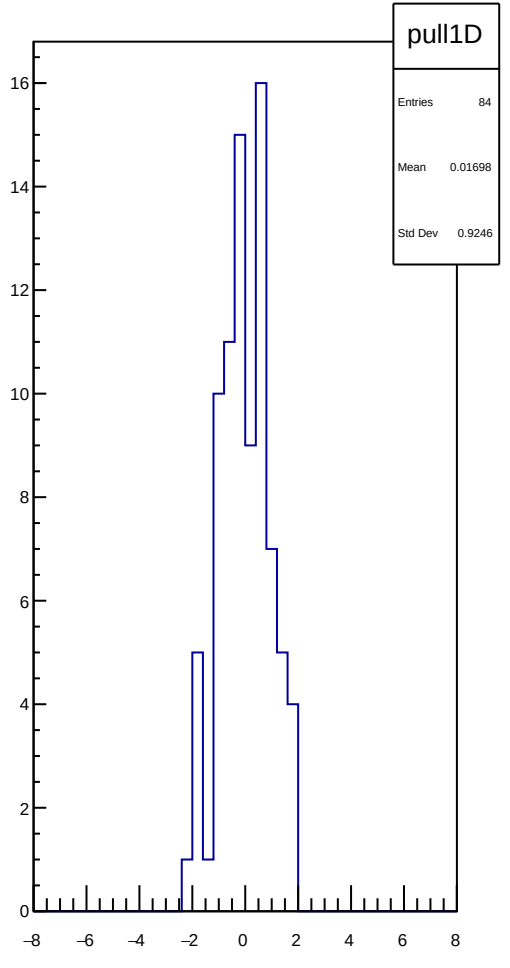

asym_usl_cor_correction_rms vs run
χ² / ndf 1.171e+04 / 83
p0 1312 ± 1.03
1700
1600
1500
1400
1300
1200
1100
1000

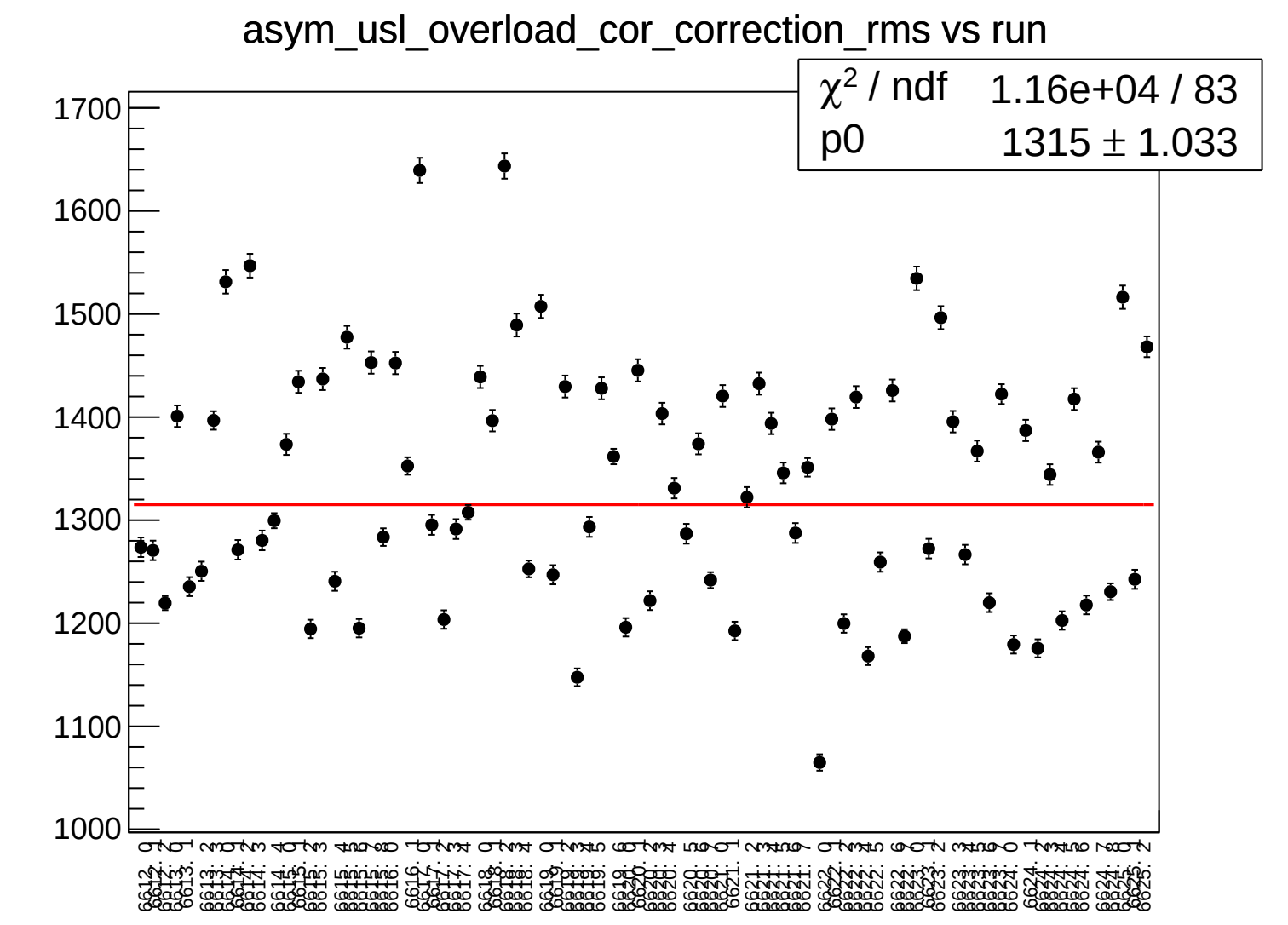

overload_cor_asym_usl_mean vs run
×10^3
χ² / ndf 76.91 / 83
p0 −1949 ± 3492
100
50
0
−50
−100
pull
Entries 84
Mean 6162
Std Dev 0
2
1
0
−1
−2

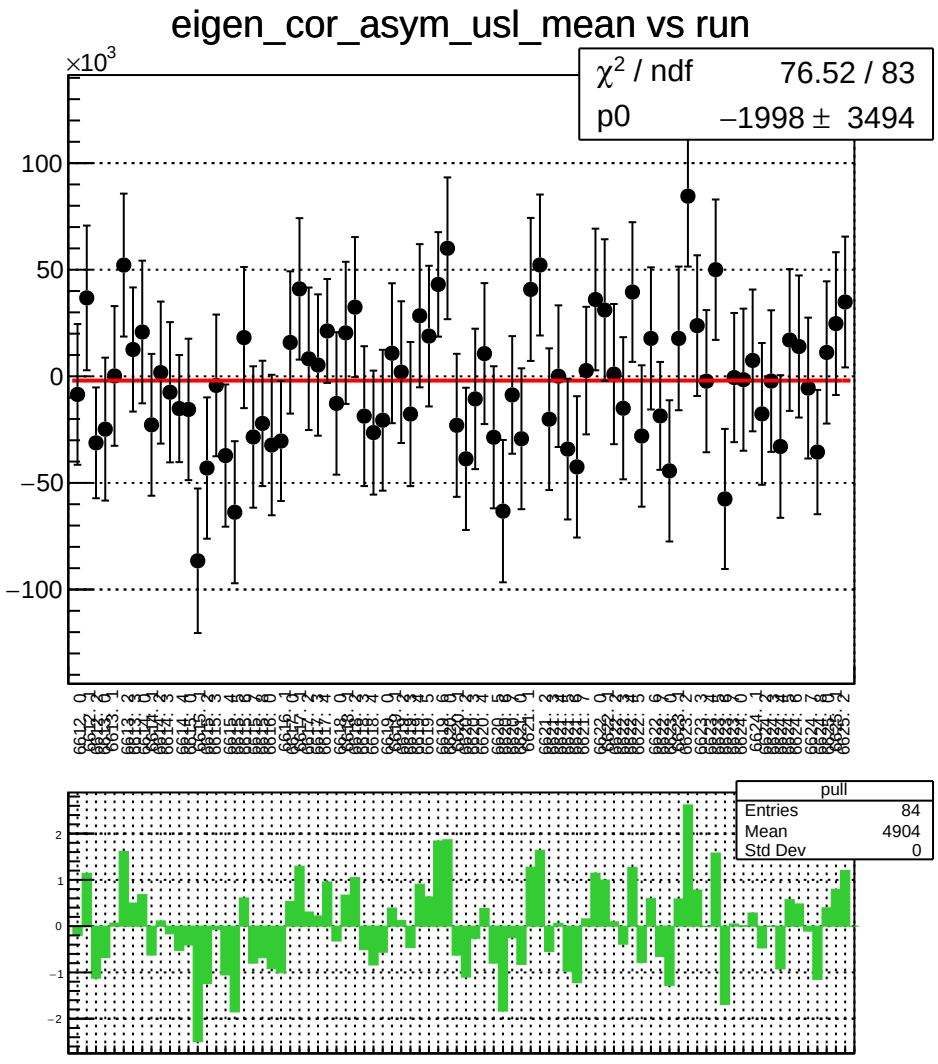

pull1D
Entries 84
Mean 0.0005163
Std Dev 0.9569
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

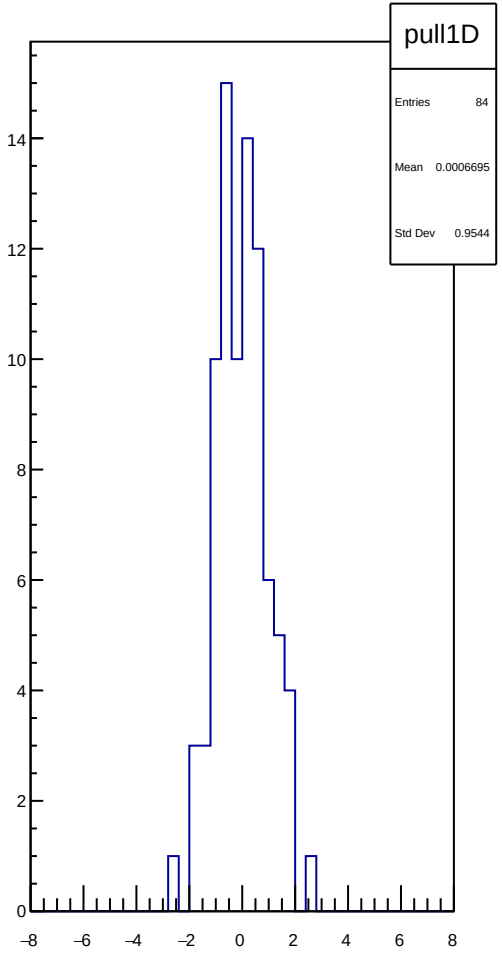

overload_cor_asym_usl_rms vs run
χ² / ndf 152.5 / 83
p0 3155 ± 2.469
3300
3250
3200
3150
3100

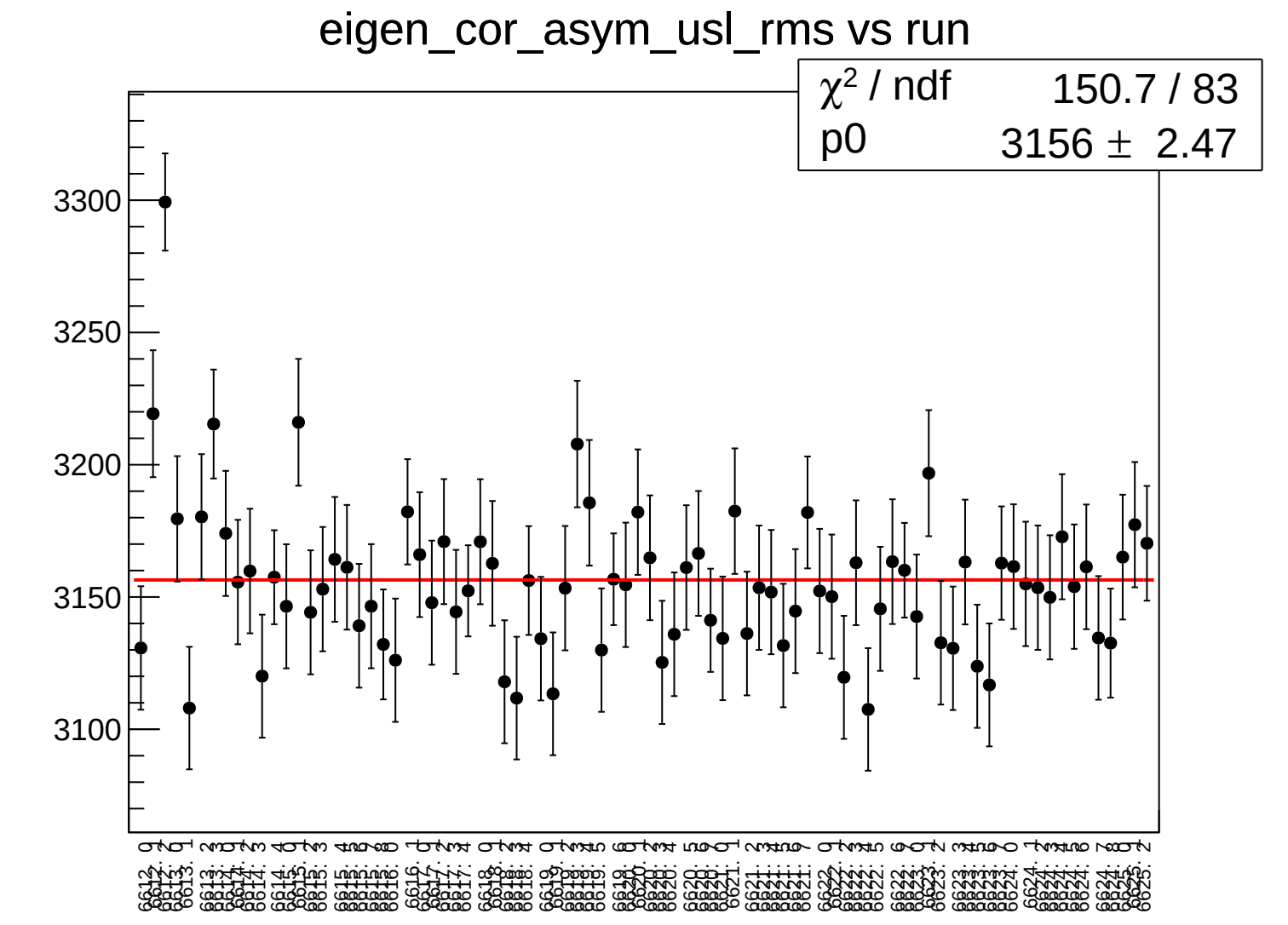

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 71.84 / 83
p0 −1008 ± 1461
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 23.54
Std Dev 31.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

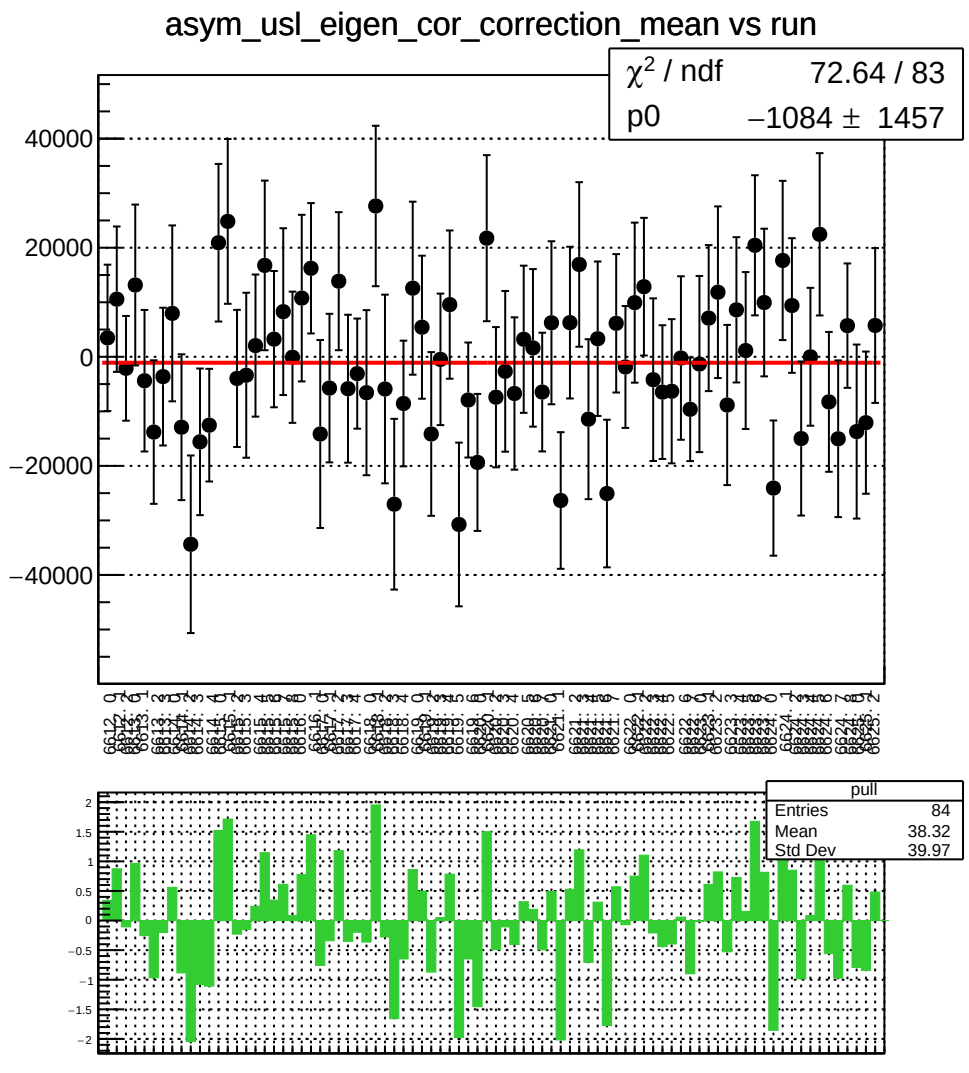

pull1D
Entries 84
Mean 0.01698
Std Dev 0.9246
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

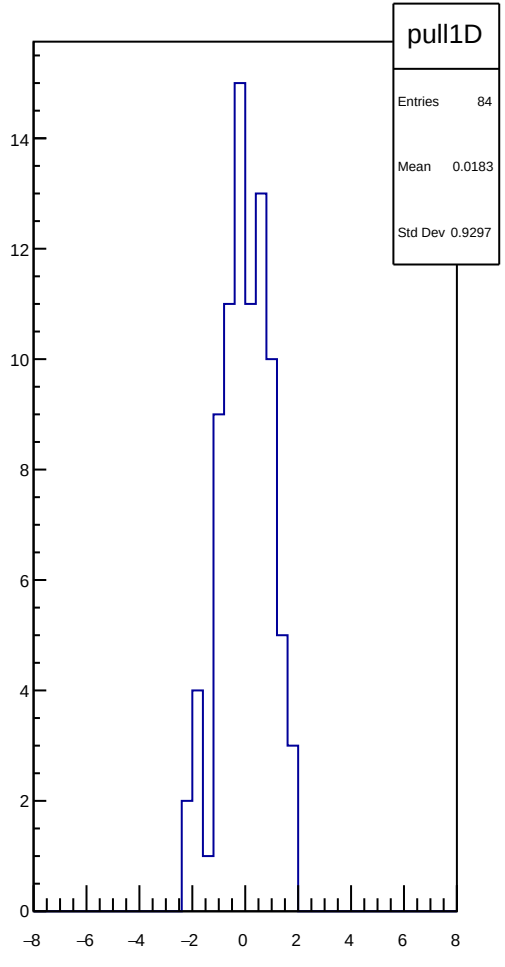

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 1.16e+04 / 83
p0 1315 ± 1.033
1700
1600
1500
1400
1300
1200
1100
1000

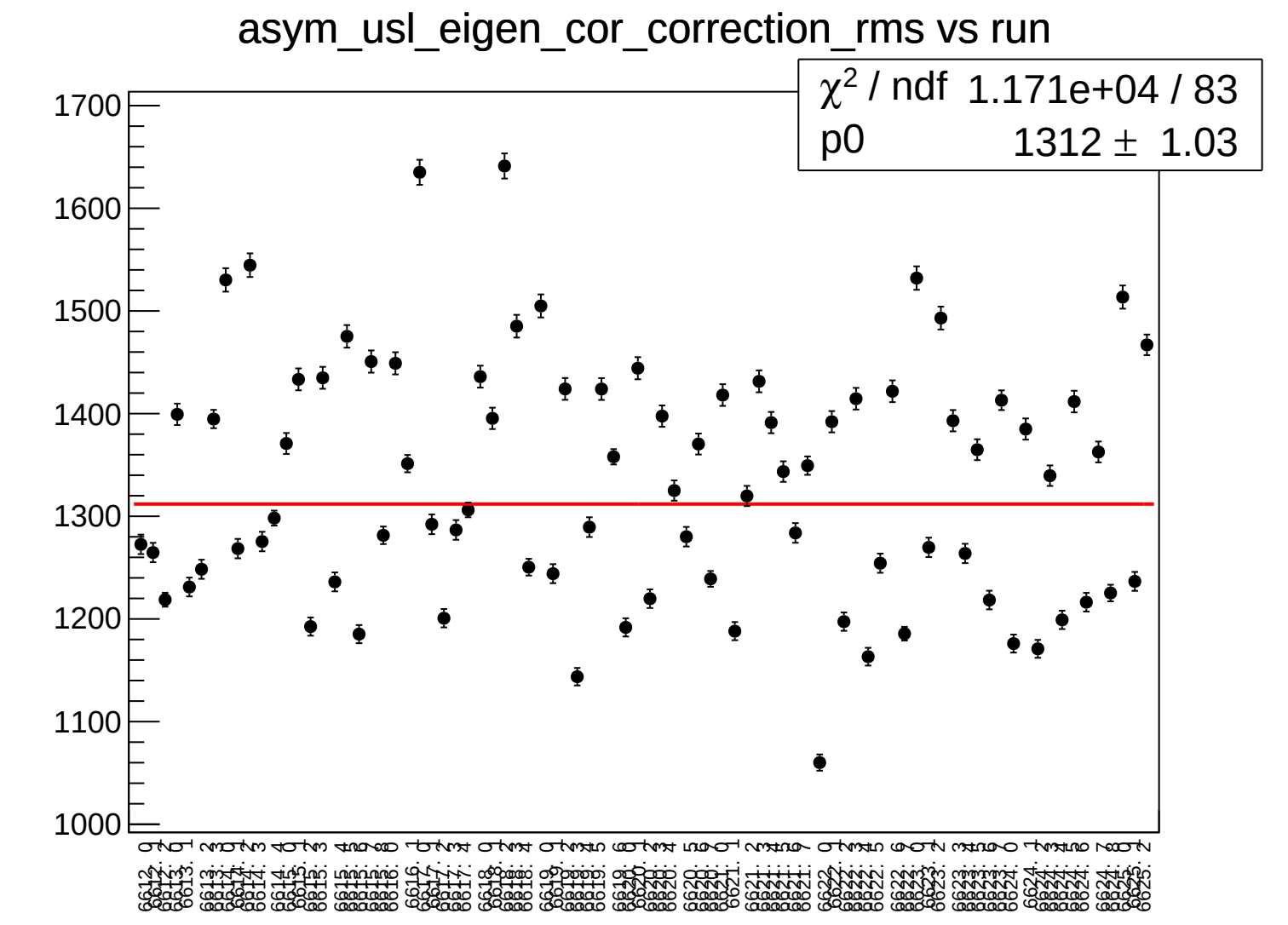

eigen_cor_asym_usl_mean vs run
×10^3
χ² / ndf 76.52 / 83
p0 −1998 ± 3494
100
50
0
−50
−100
pull
Entries 84
Mean 4904
Std Dev 0
2
1
0
−1
−2

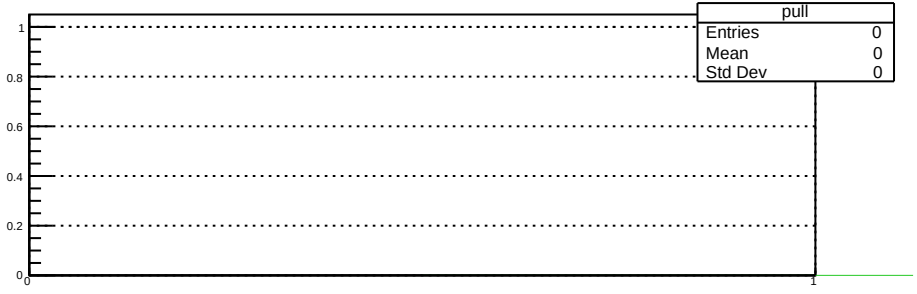

pull1D
Entries 84
Mean 0.0006695
Std Dev 0.9544
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

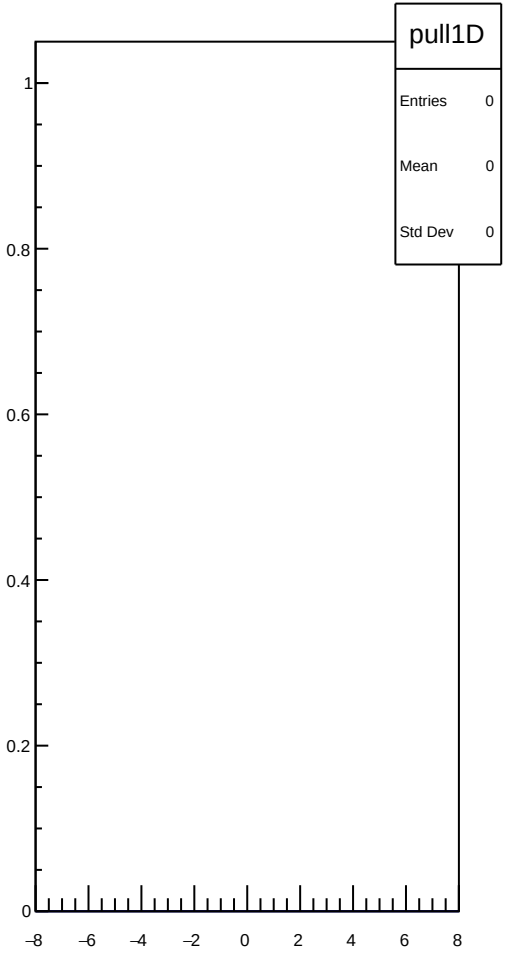

eigen_cor_asym_usl_rms vs run
χ² / ndf 150.7 / 83
p0 3156 ± 2.47
3300
3250
3200
3150
3100

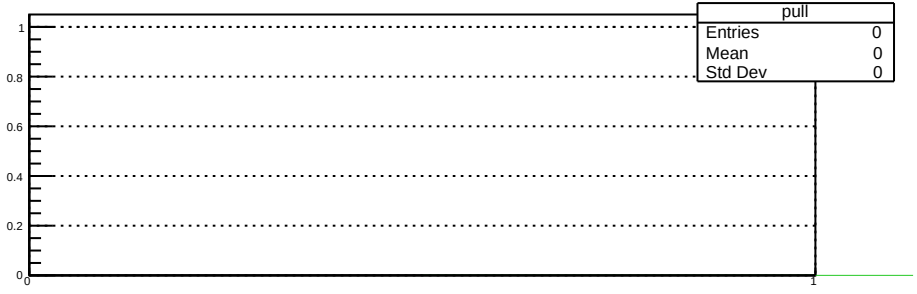

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 72.64 / 83
p0 −1084 ± 1457
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 38.32
Std Dev 39.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

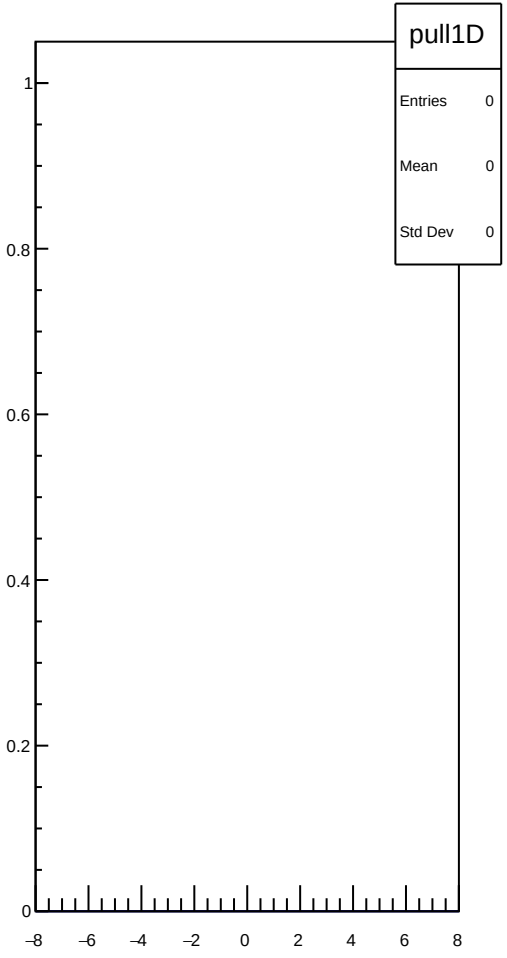

pull1D
Entries 84
Mean 0.0183
Std Dev 0.9297
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

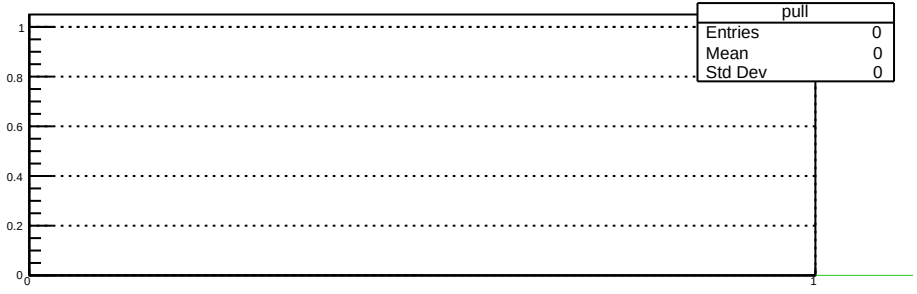

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 1.171e+04 / 83
p0 1312 ± 1.03
1700
1600
1500
1400
1300
1200
1100
1000

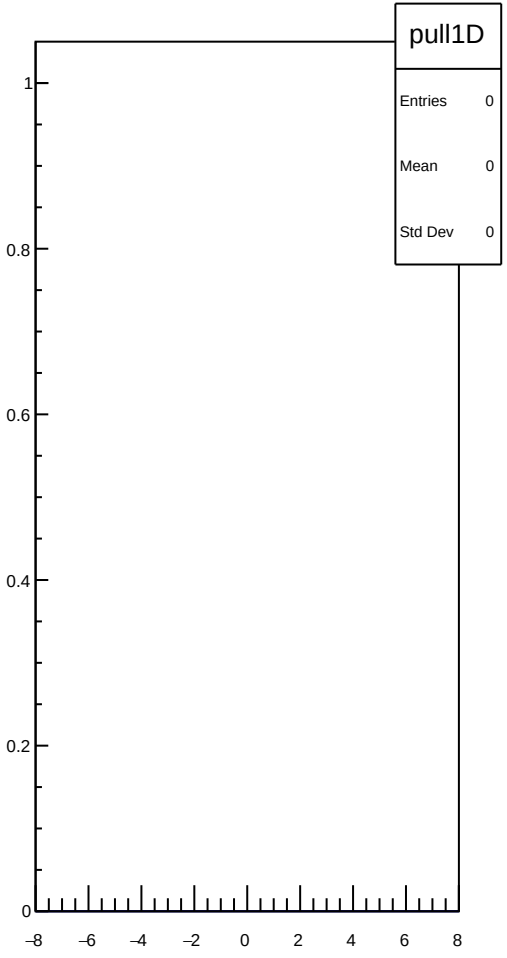

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

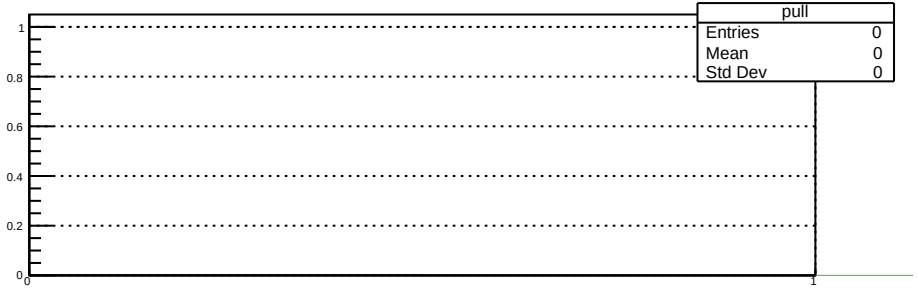

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

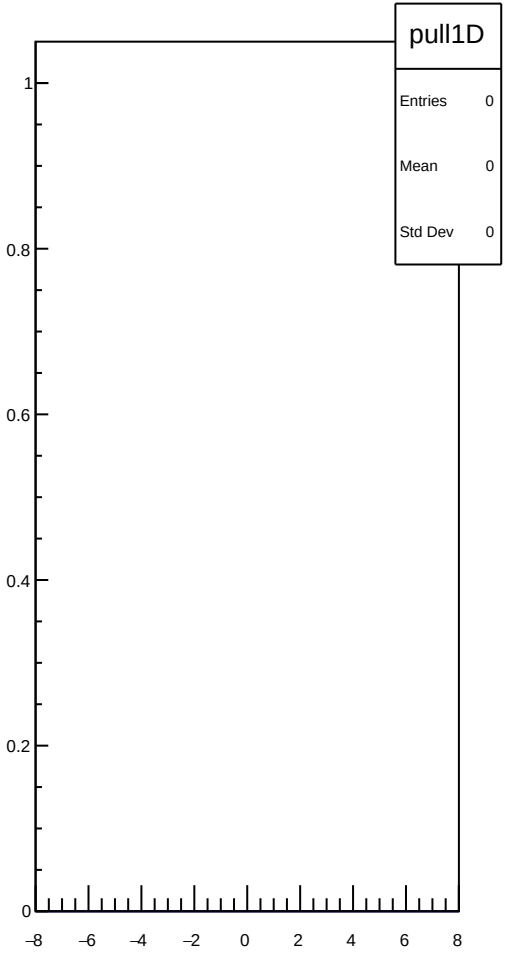

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

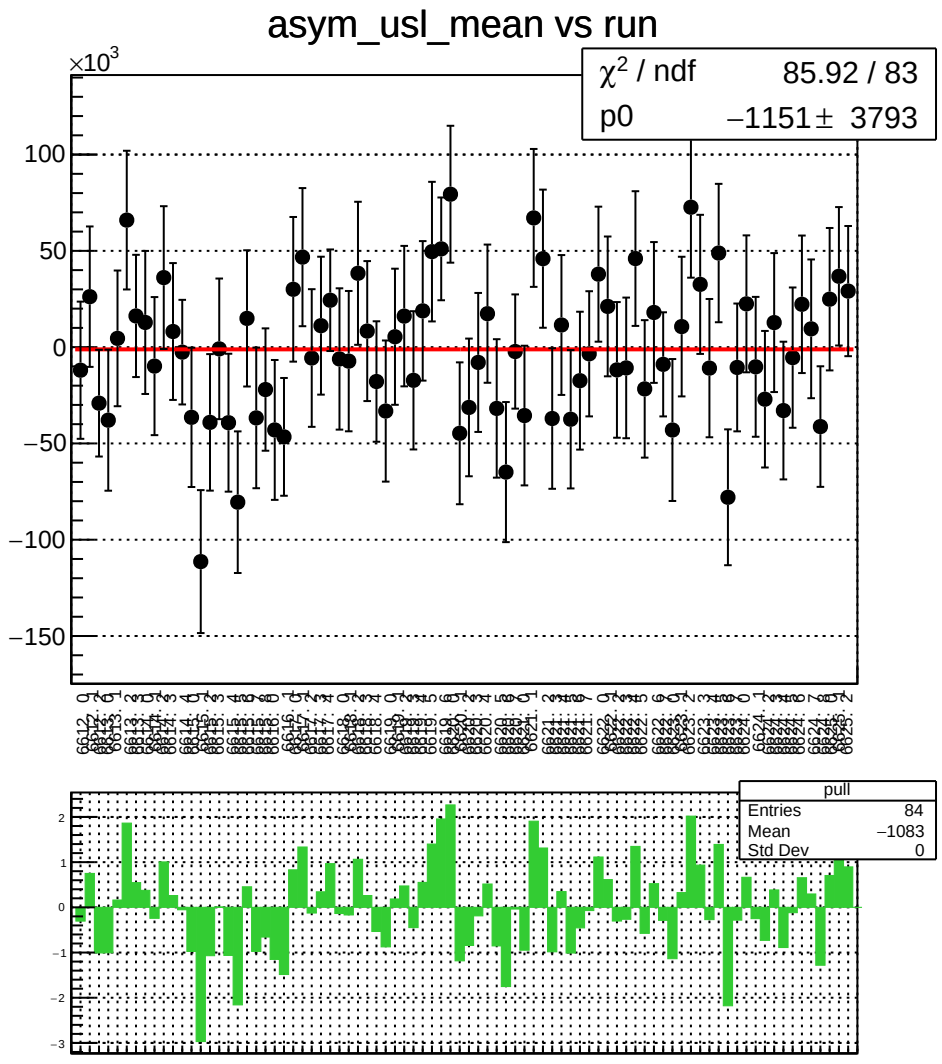

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

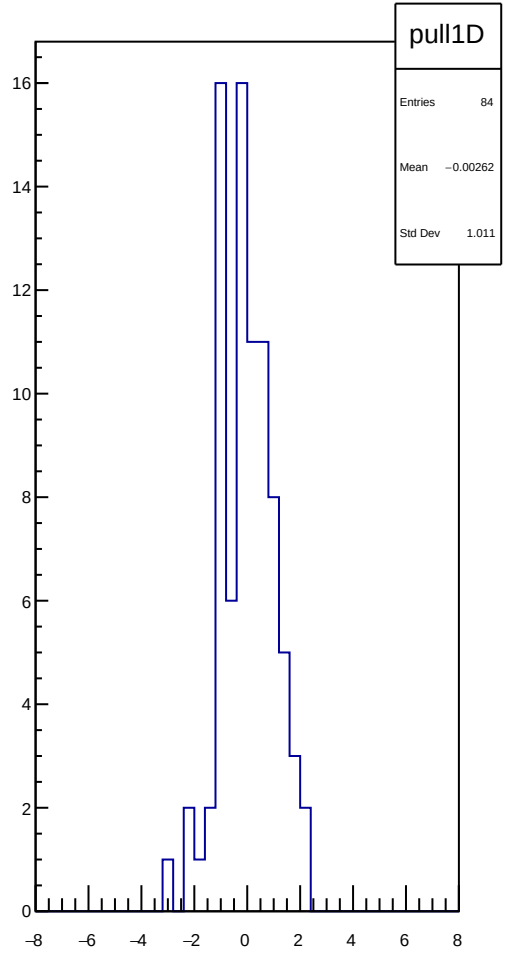

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

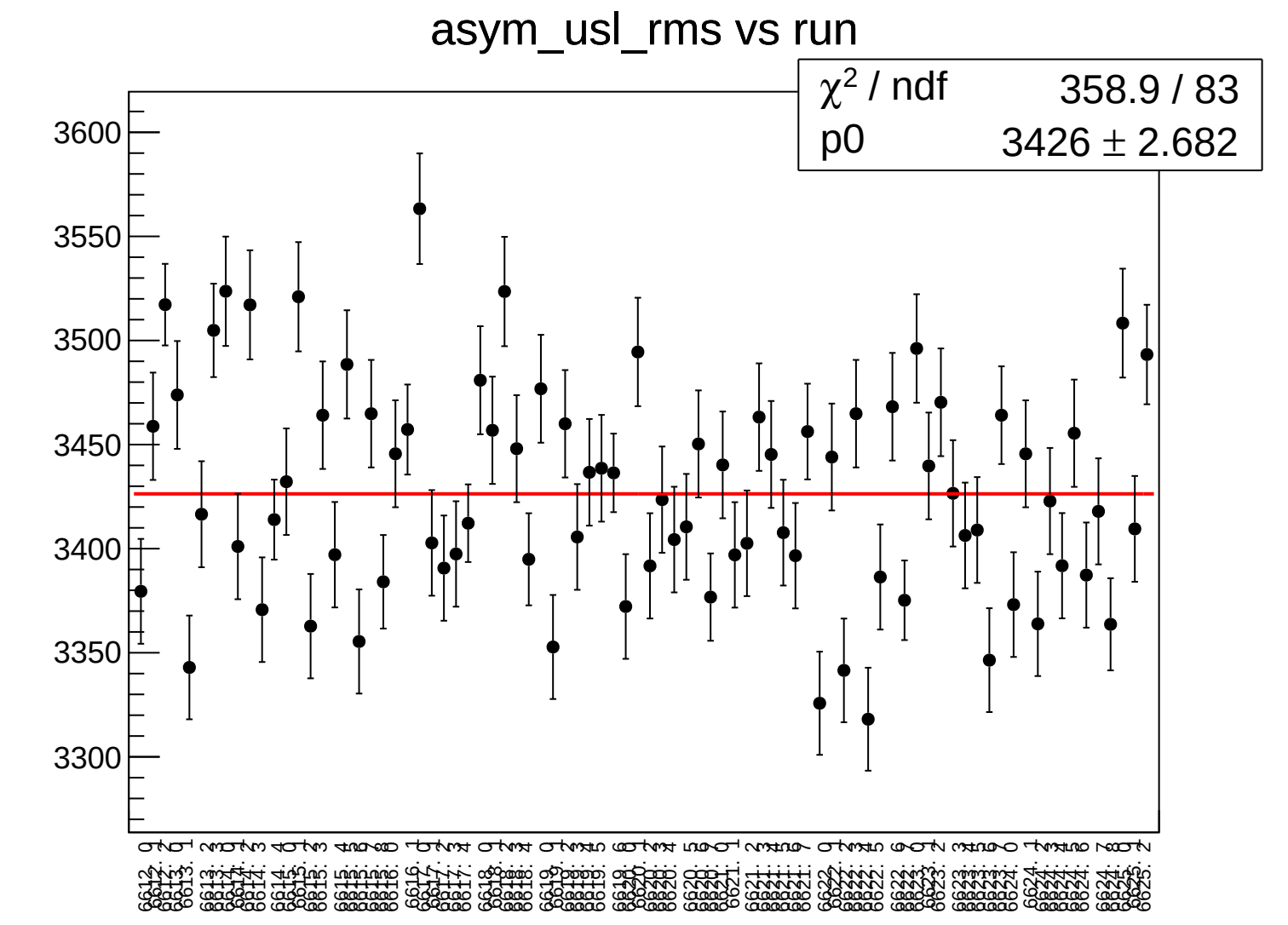

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

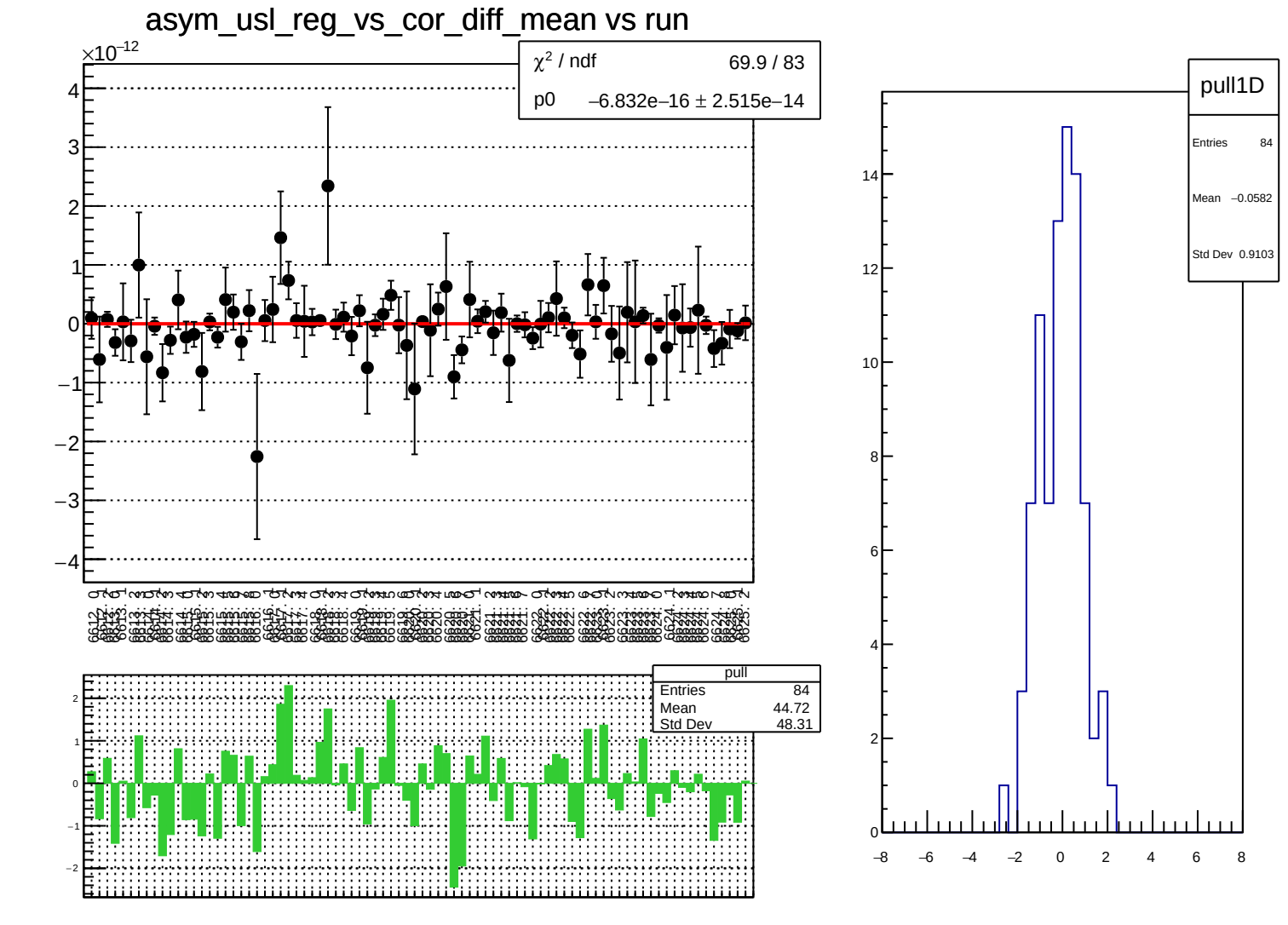

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

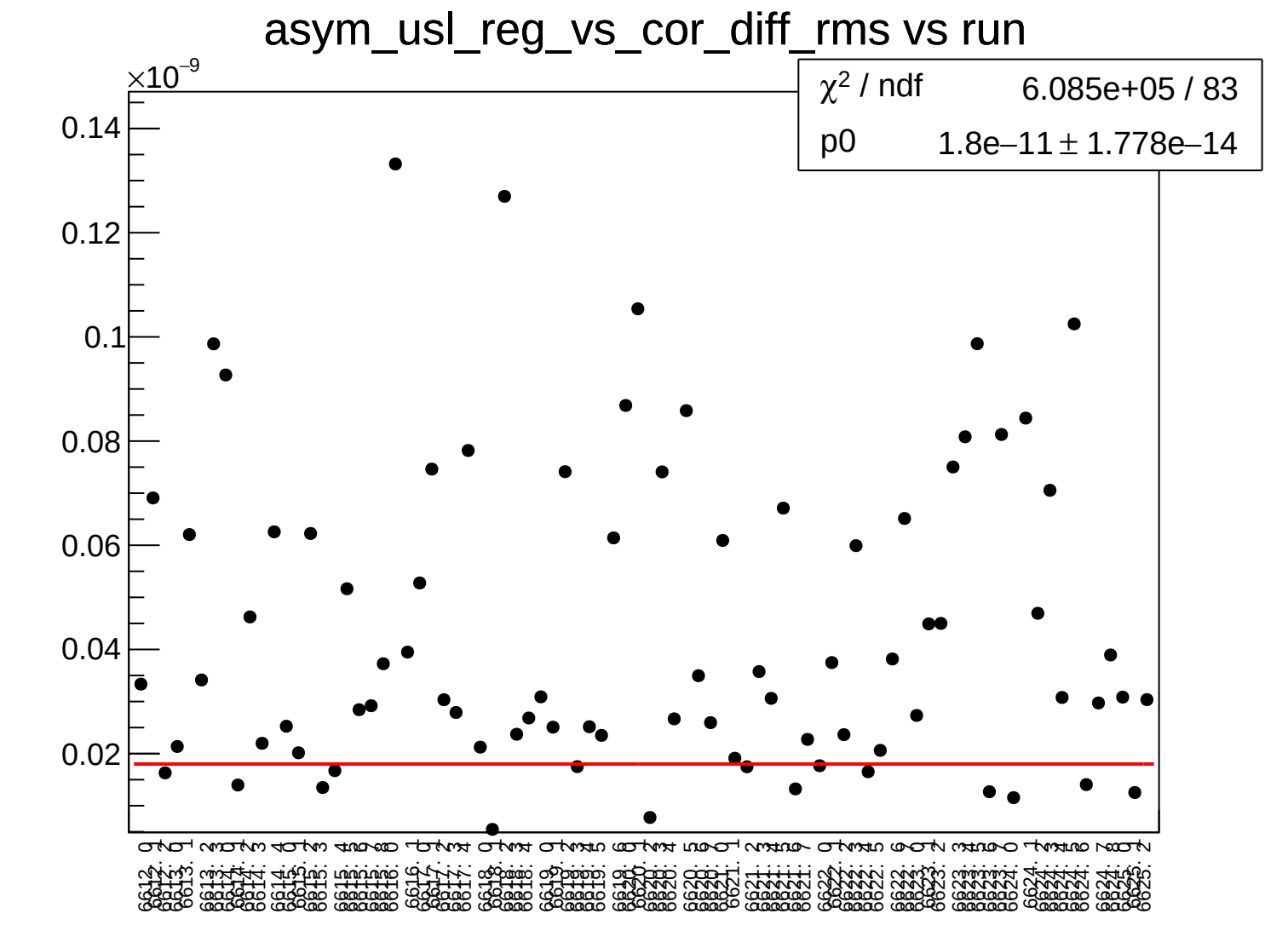

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

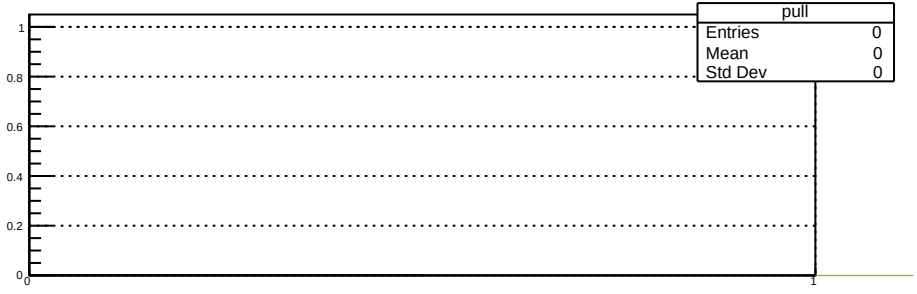

asym_usl_mean vs run
×10^3
χ^2 / ndf 85.92 / 83
p0 −1151 ± 3793
100
50
0
−50
−100
−150
pull
Entries 84
Mean −1083
Std Dev 0
2
1
0
−1
−2
−3

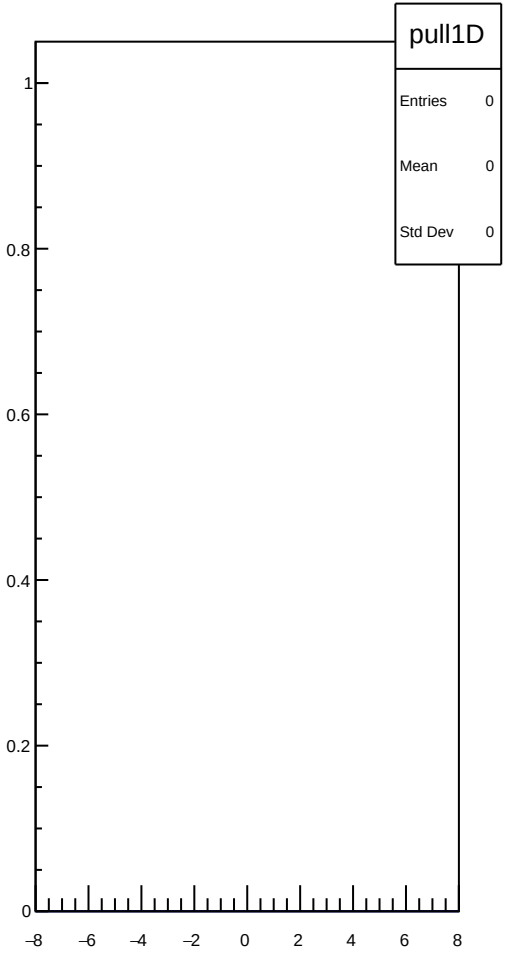

pull1D
Entries 84
Mean −0.00262
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

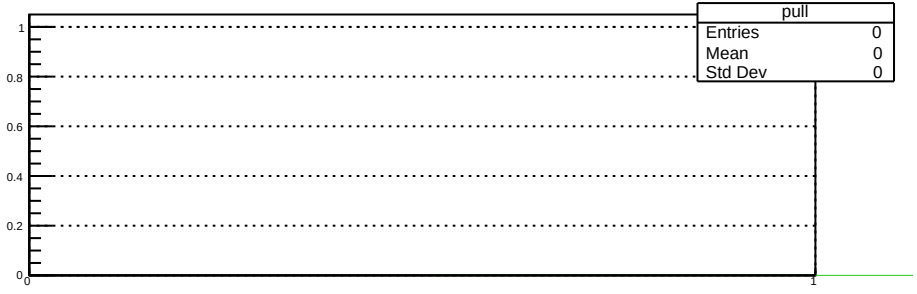

asym_usl_rms vs run
χ² / ndf 358.9 / 83
p0 3426 ± 2.682
3600
3550
3500
3450
3400
3350
3300

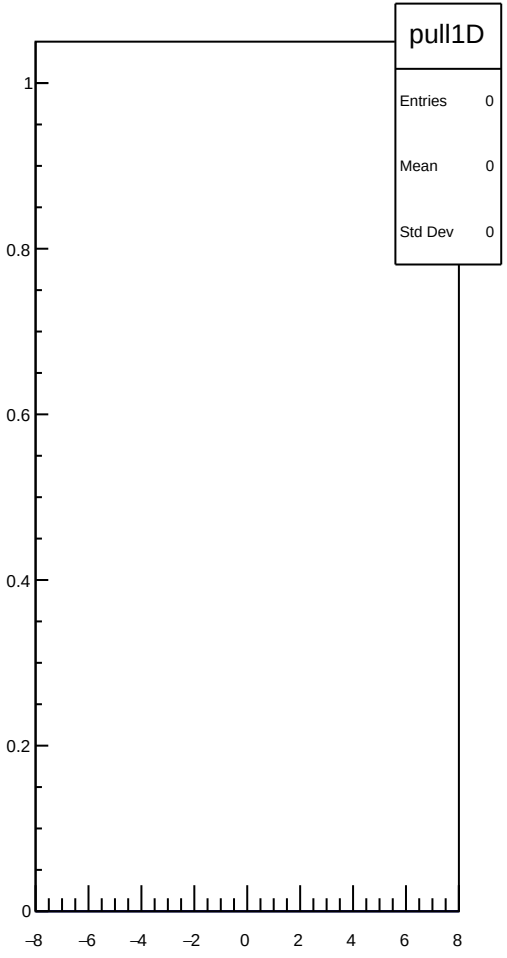

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.9 / 83
p0 −6.832e−16 ± 2.515e−14
pull
Entries 84
Mean 44.72
Std Dev 48.31
pull1D
Entries 84
Mean −0.0582
Std Dev 0.9103

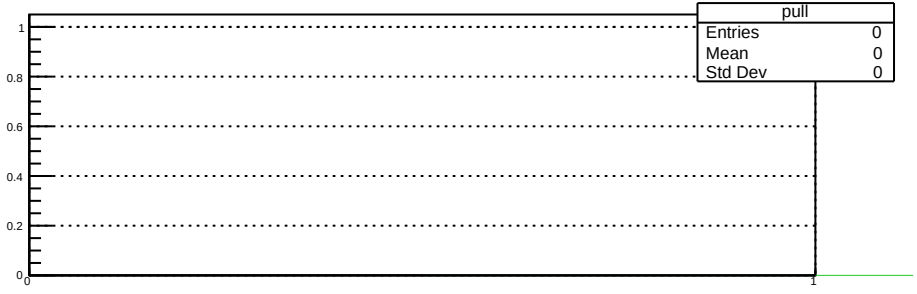

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.085e+05 / 83
p0 1.8e−11 ± 1.778e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

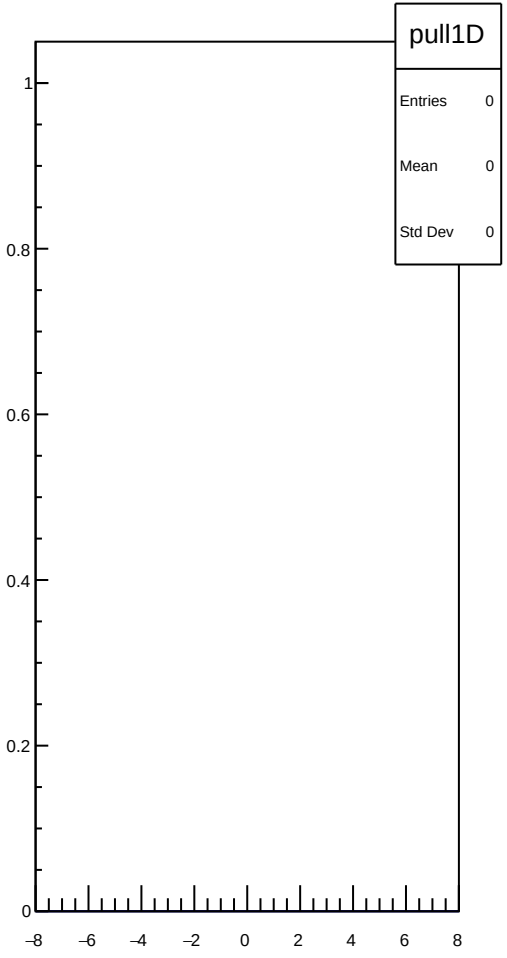

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

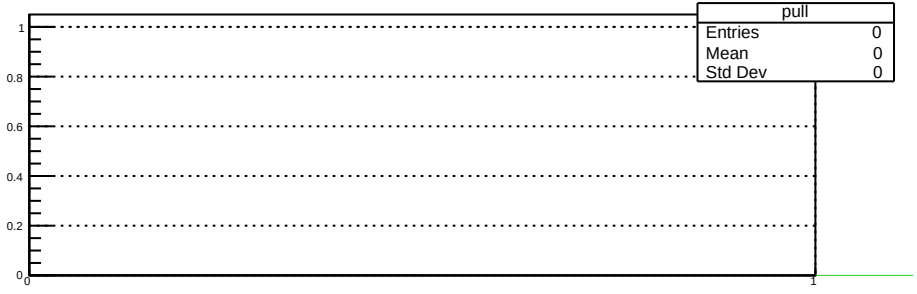

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

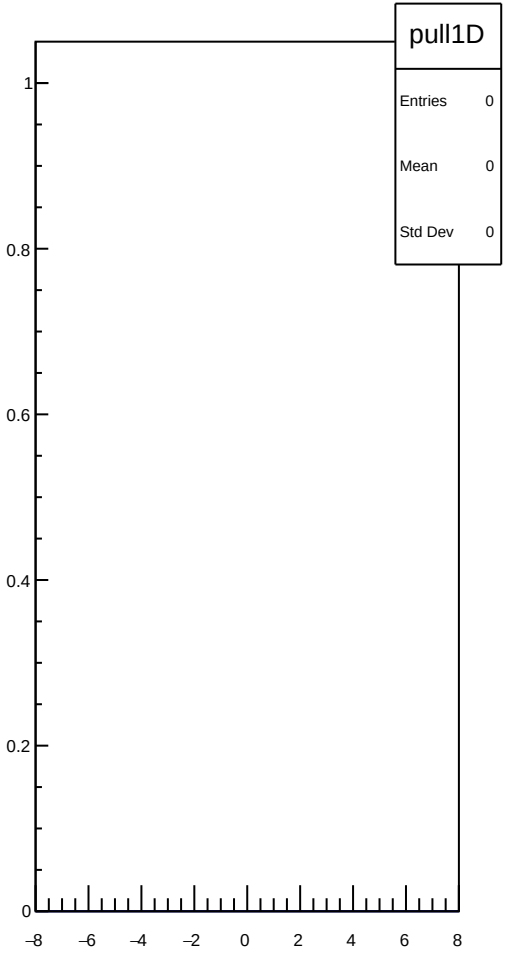

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

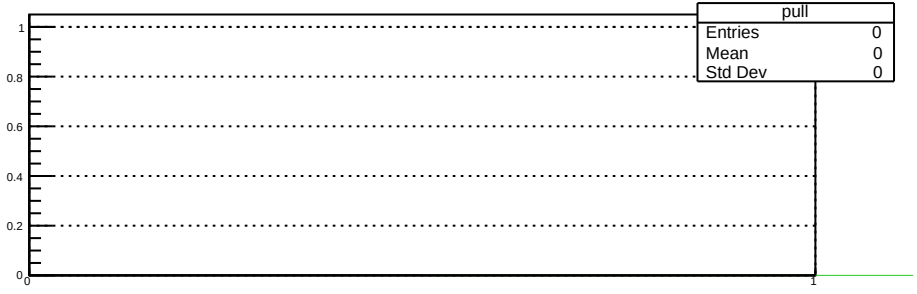

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

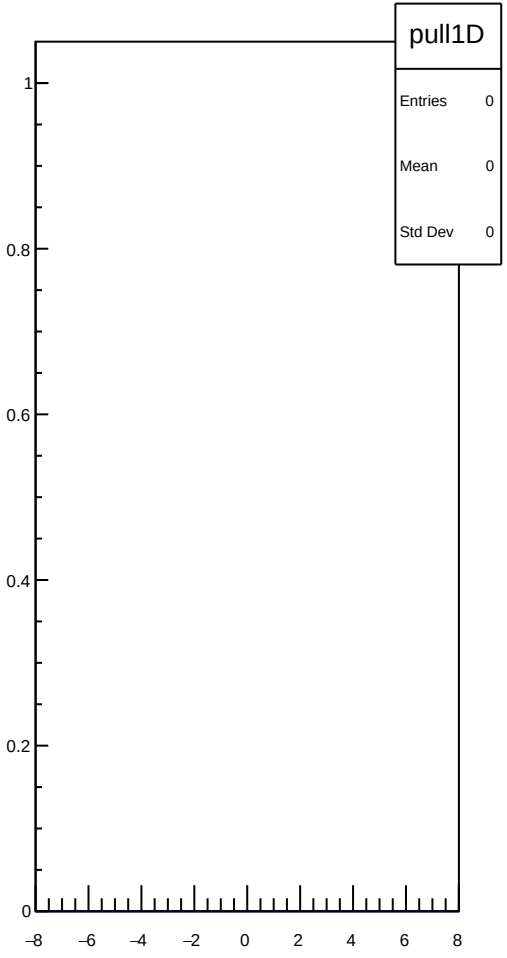

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

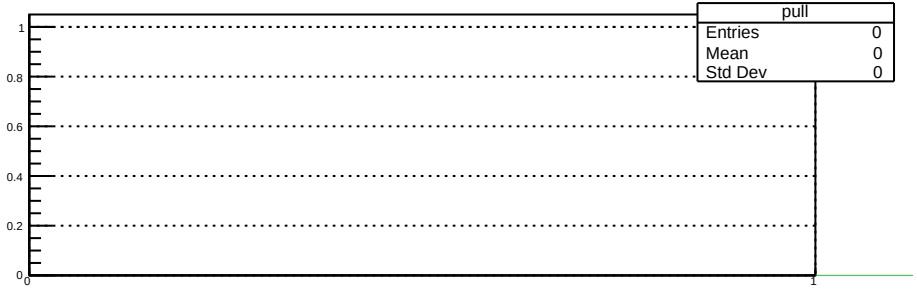

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

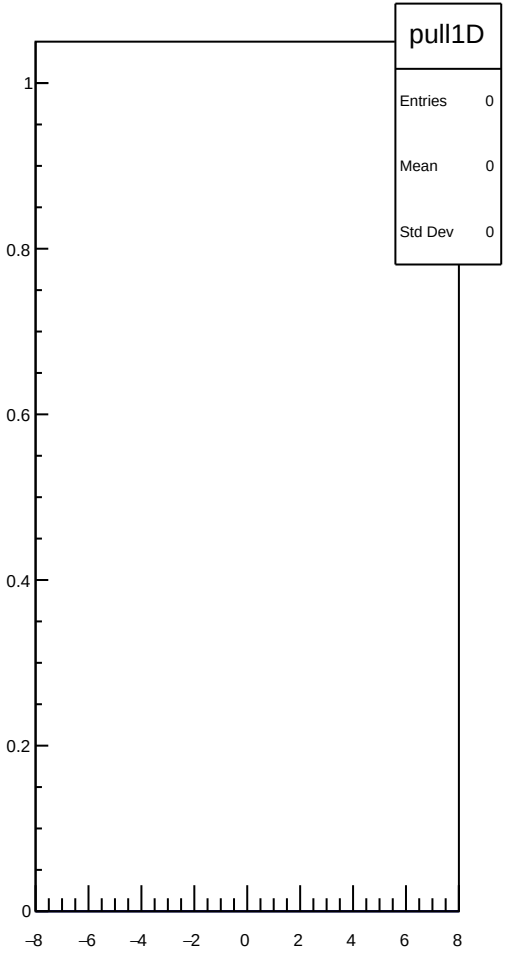

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

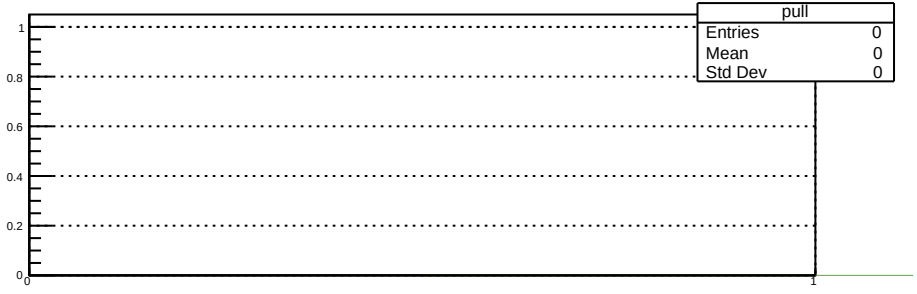

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

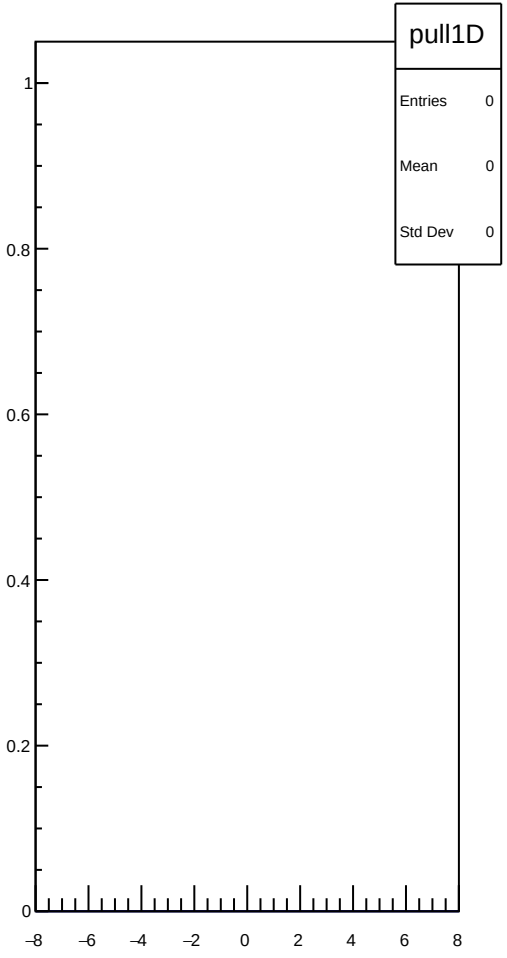

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

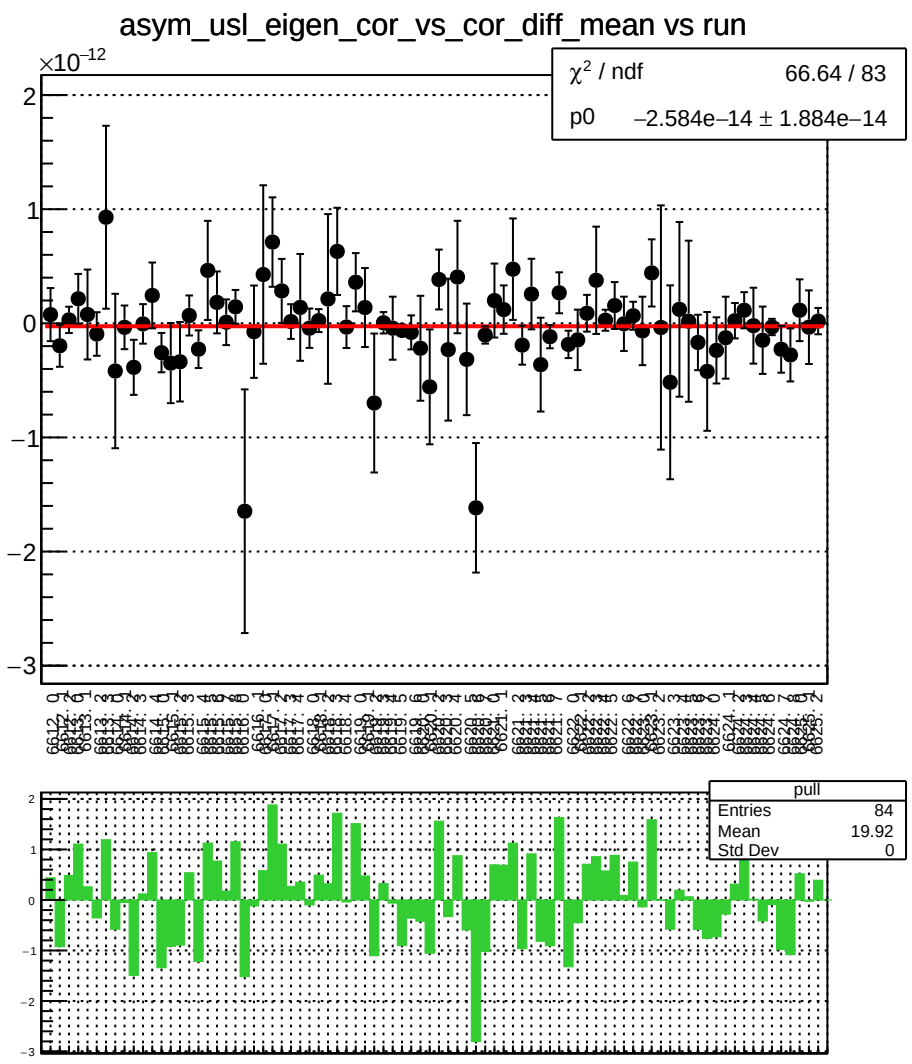

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

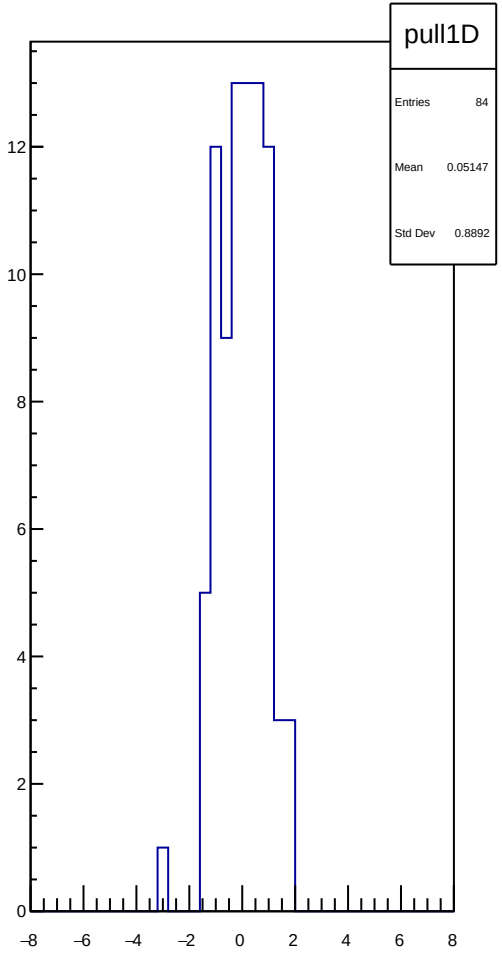

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

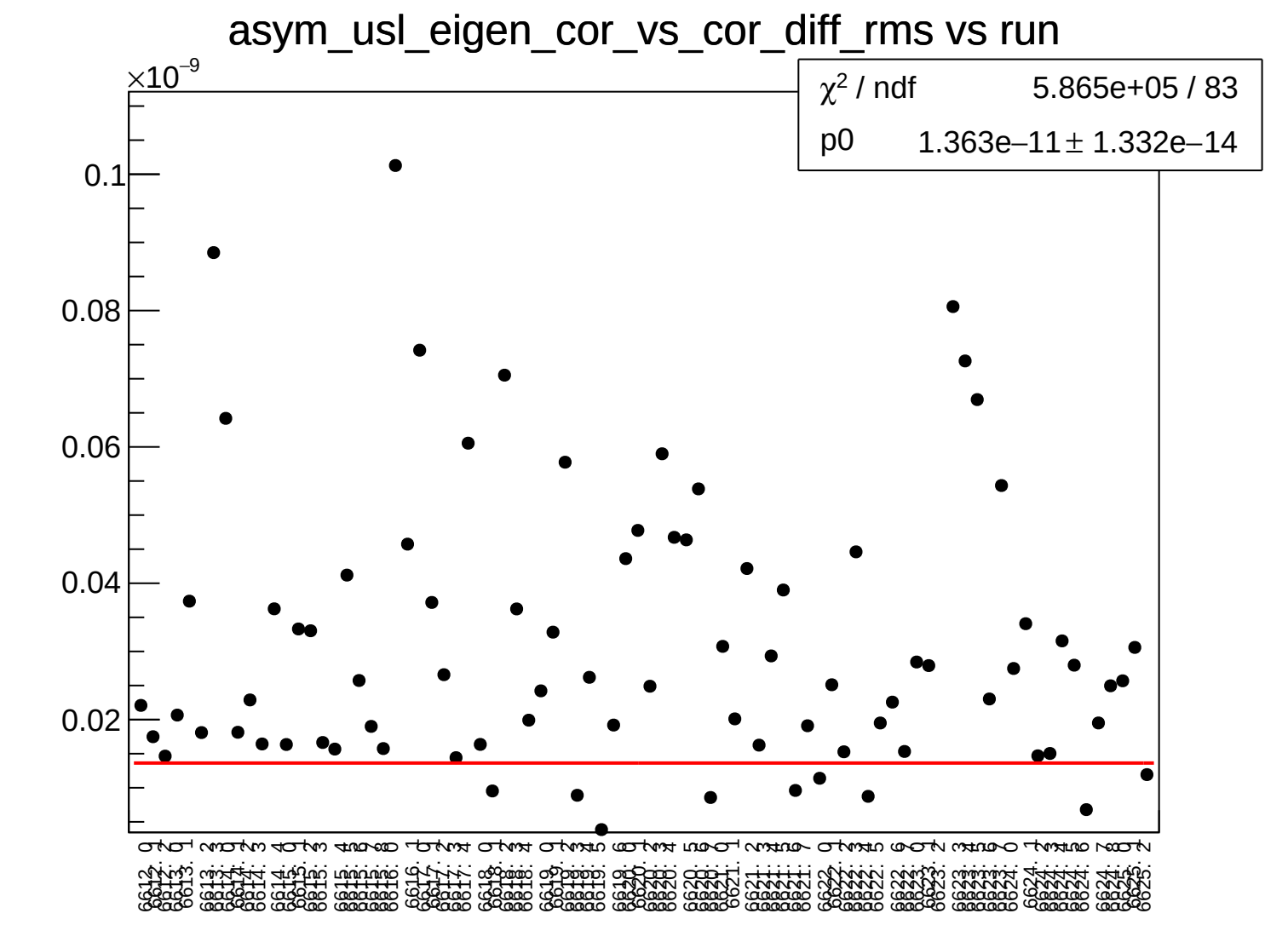

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

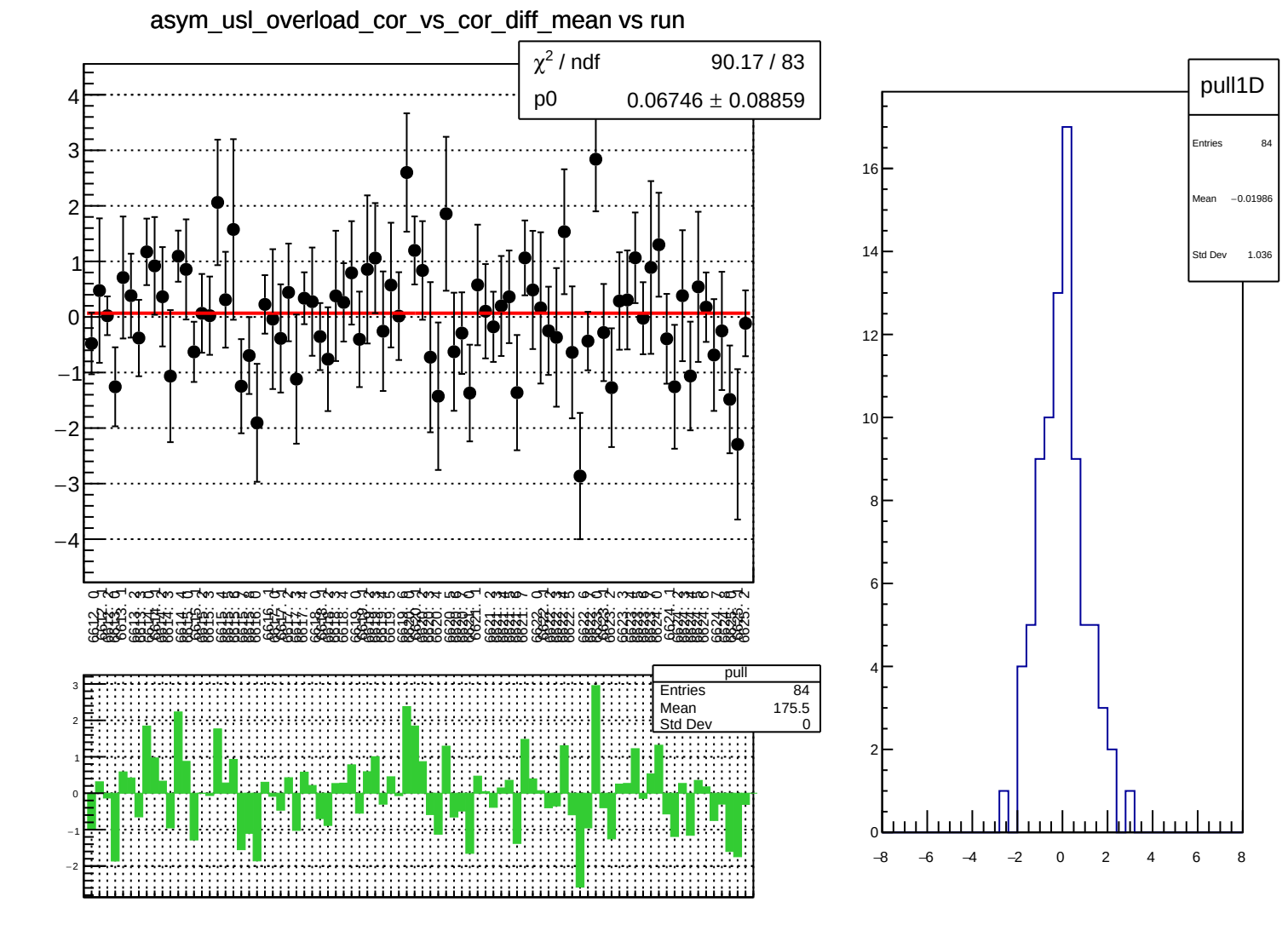

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

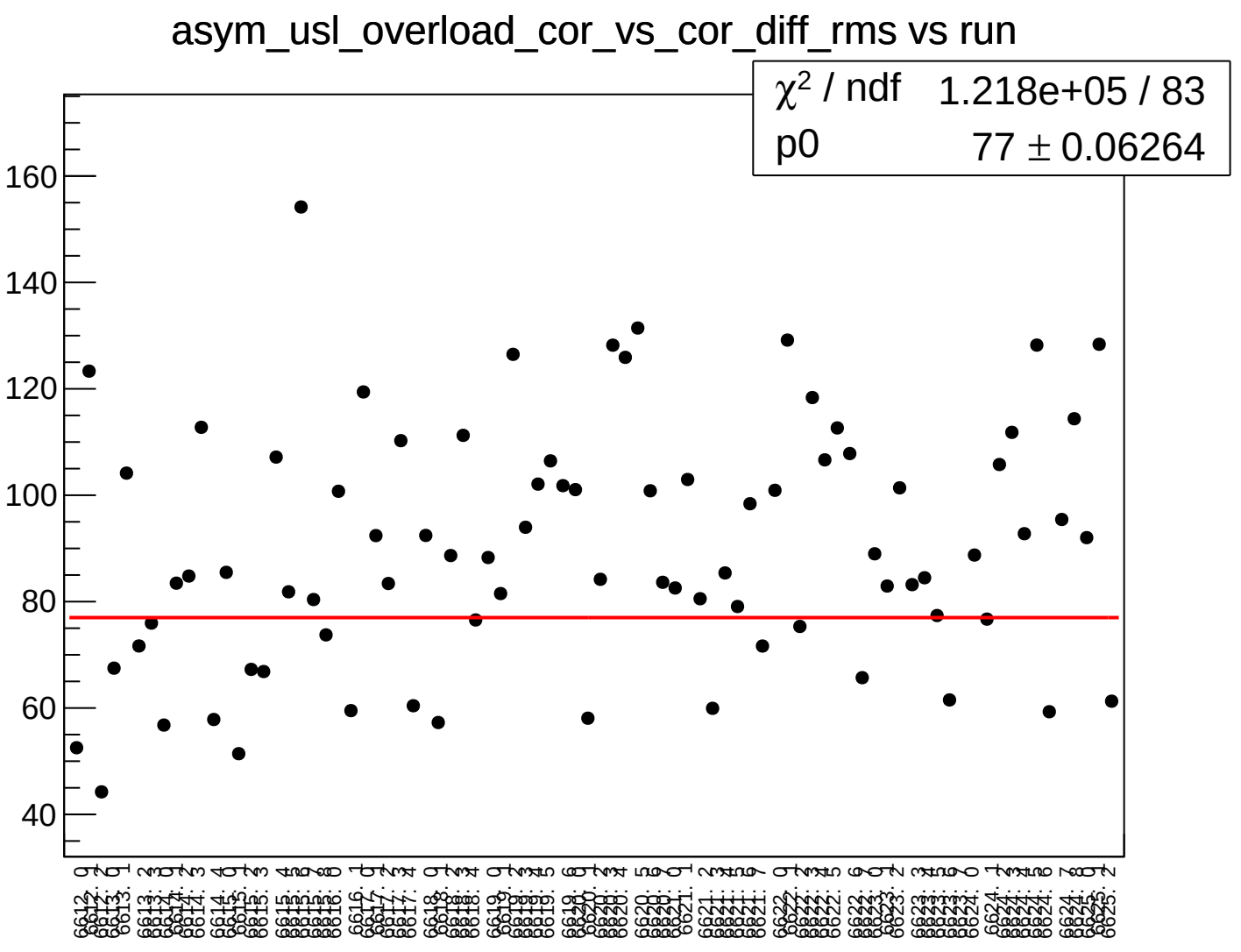

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

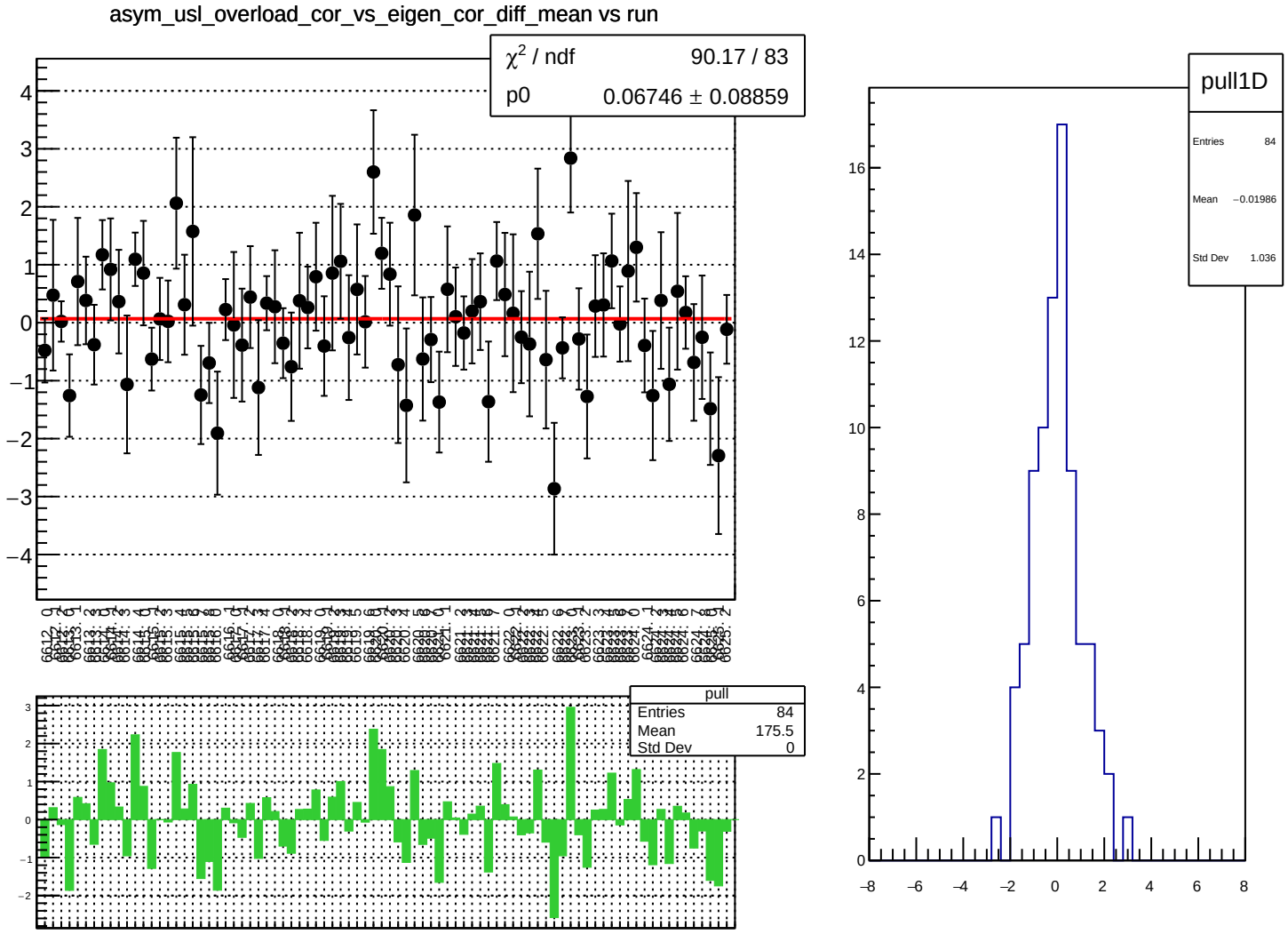

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.64 / 83
p0 −2.584e−14 ± 1.884e−14
pull
Entries 84
Mean 19.92
Std Dev 0

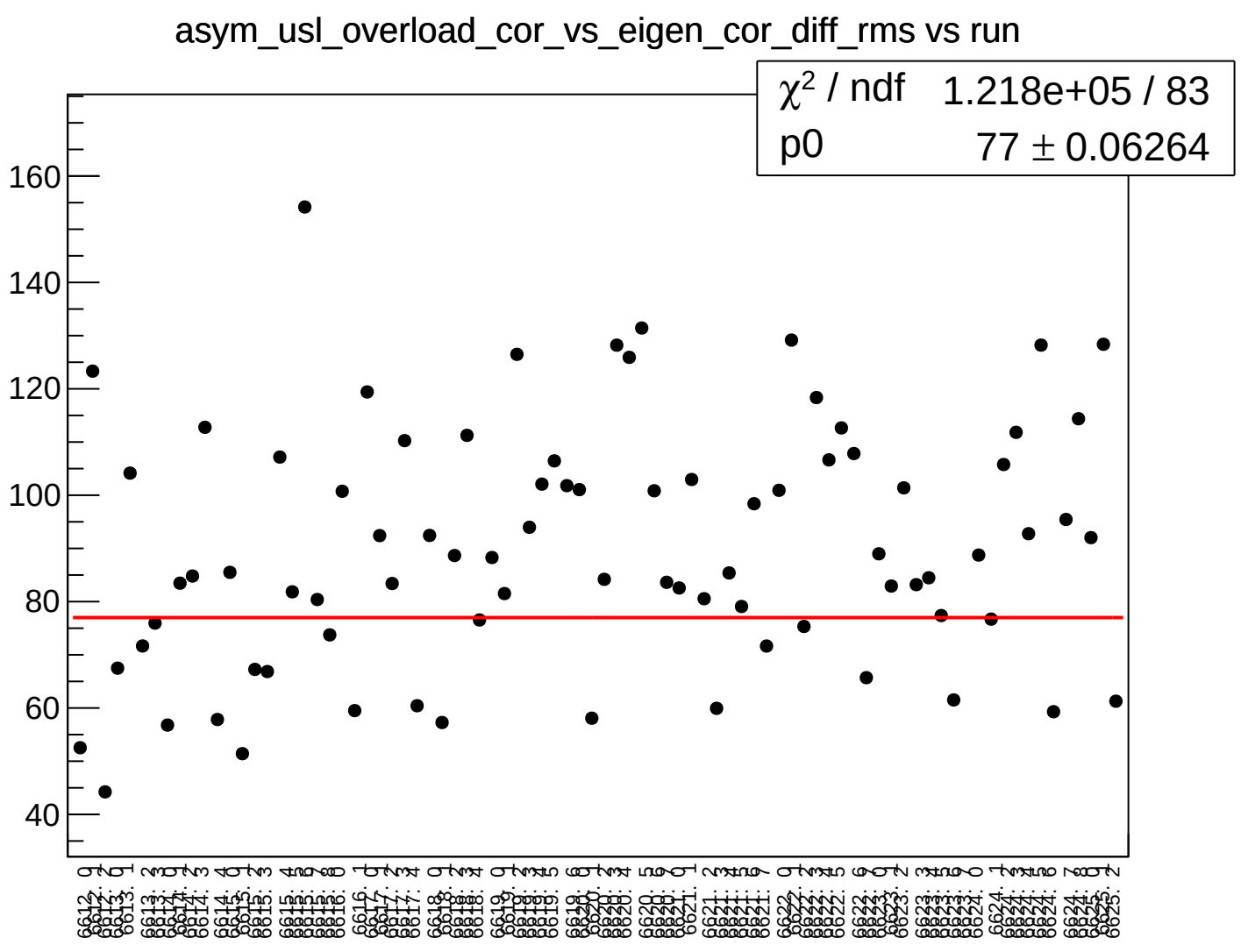

pull1D
Entries 84
Mean 0.05147
Std Dev 0.8892

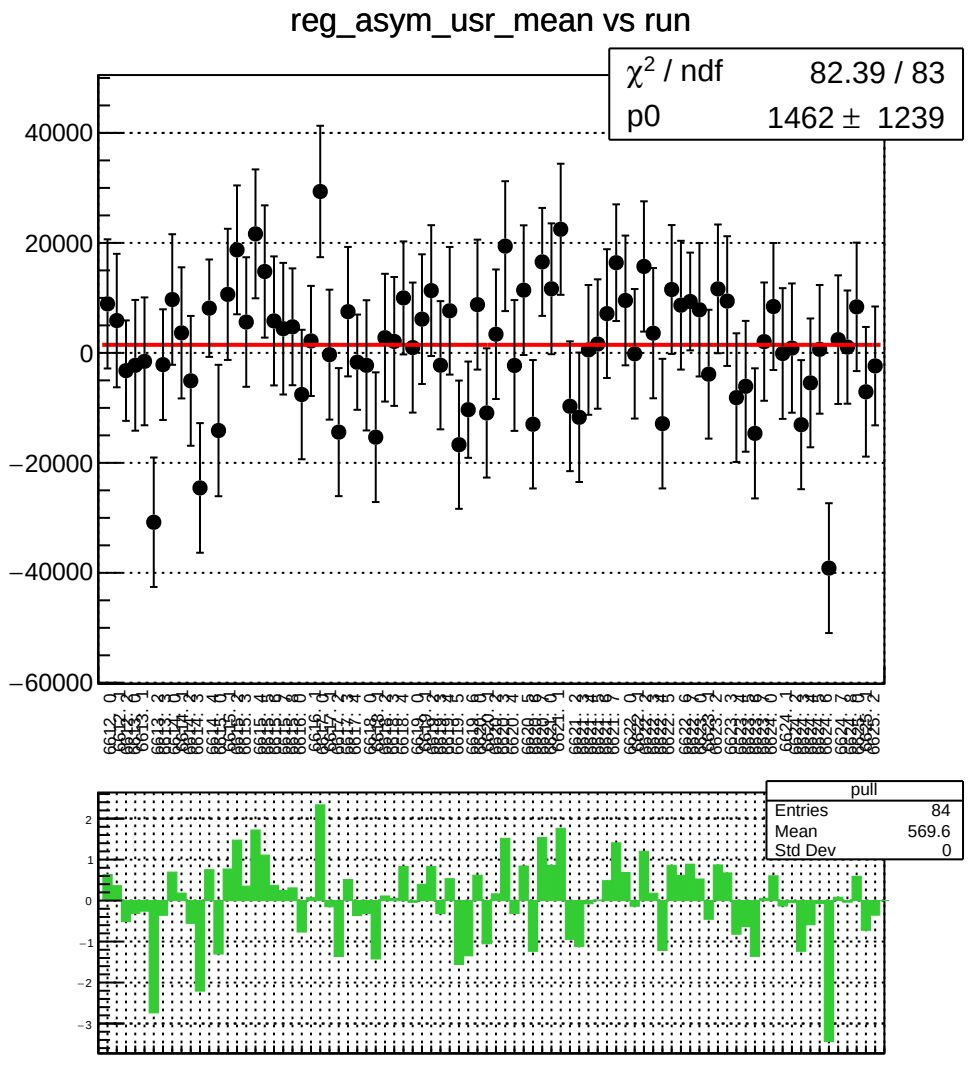

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.865e+05 / 83
p0 1.363e−11 ± 1.332e−14
0.1
0.08
0.06
0.04
0.02

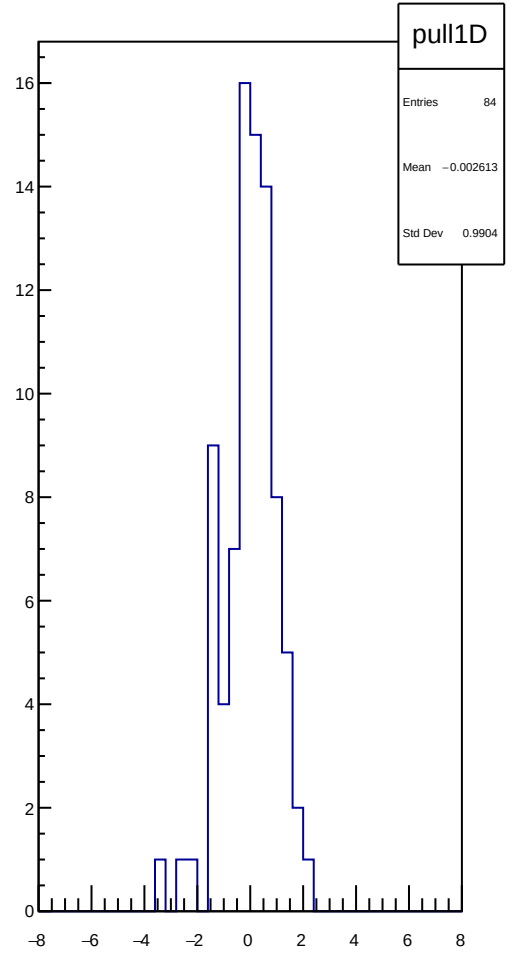

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 90.17 / 83
p0 0.06746 ± 0.08859
pull
Entries 84
Mean 175.5
Std Dev 0
pull1D
Entries 84
Mean −0.01986
Std Dev 1.036

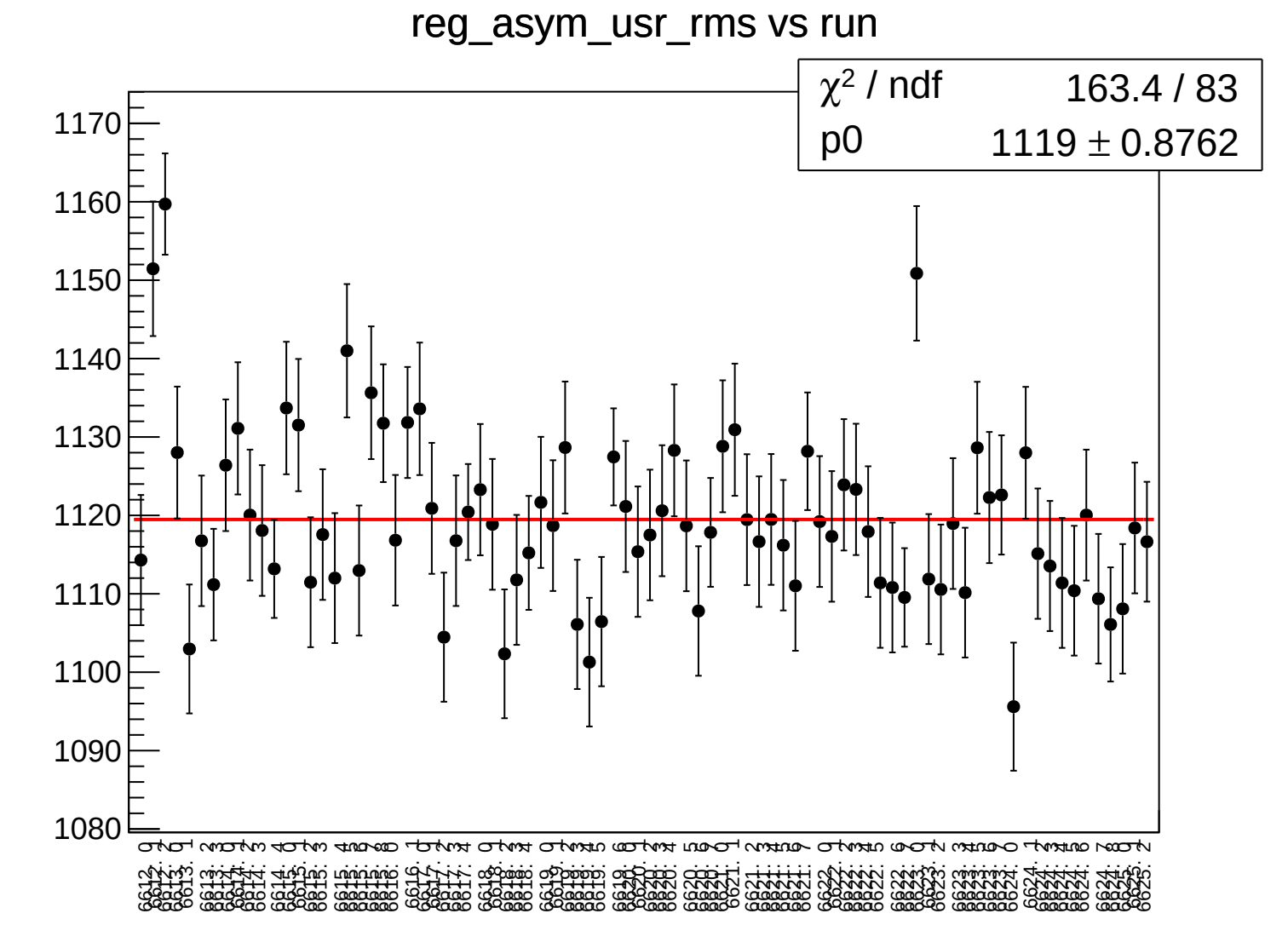

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.218e+05 / 83
p0 77 ± 0.06264
160
140
120
100
80
60
40

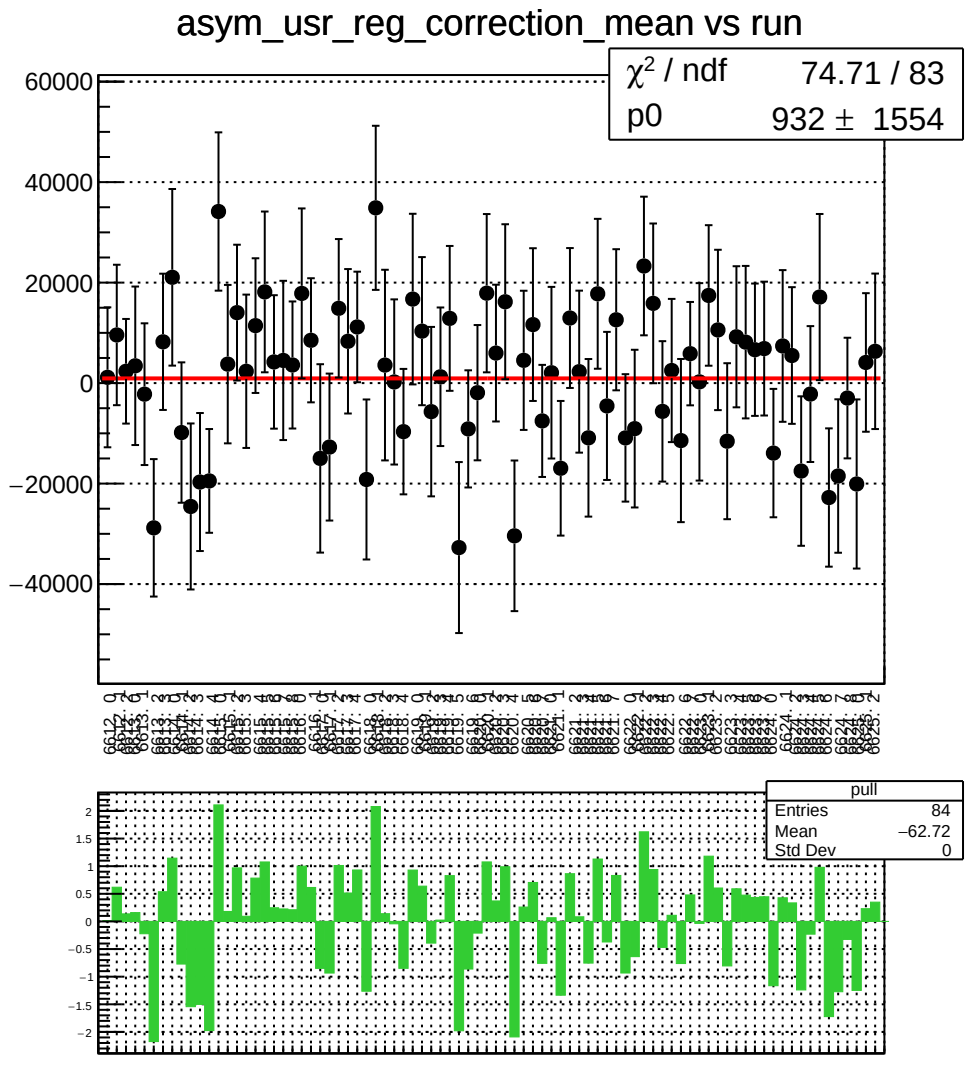

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.17 / 83
p0 0.06746 ± 0.08859
pull
Entries 84
Mean 175.5
Std Dev 0
pull1D
Entries 84
Mean −0.01986
Std Dev 1.036

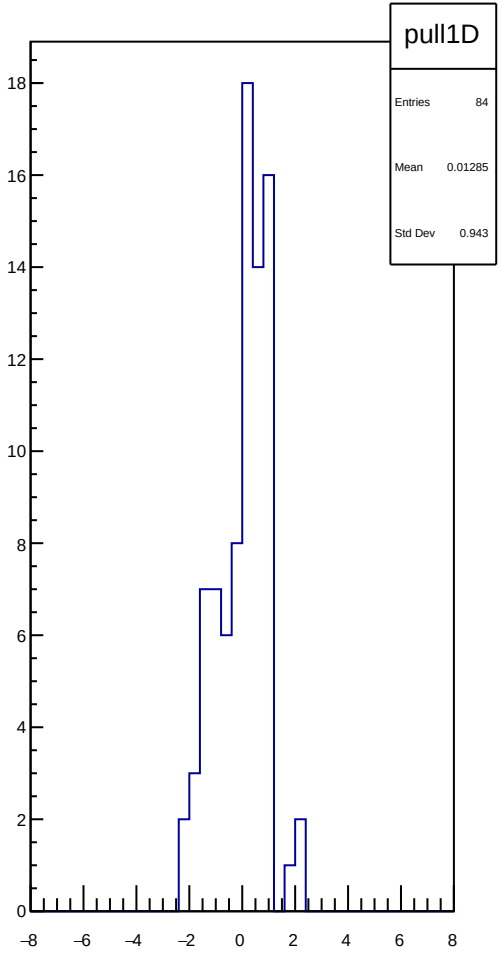

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.218e+05 / 83
p0 77 ± 0.06264
160
140
120
100
80
60
40

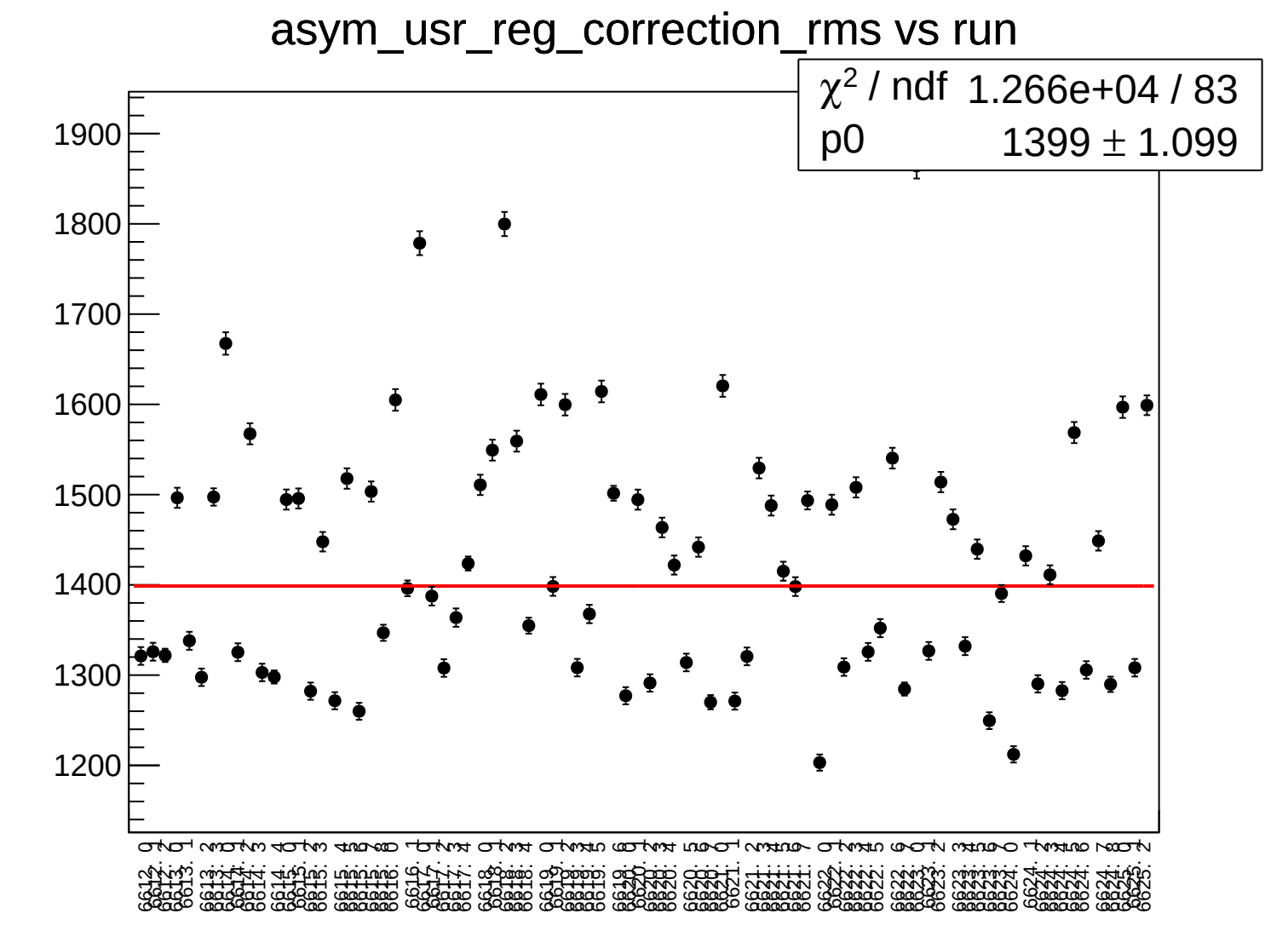

reg_asym_usr_mean vs run
χ² / ndf 82.39 / 83
p0 1462 ± 1239
pull
Entries 84
Mean 569.6
Std Dev 0

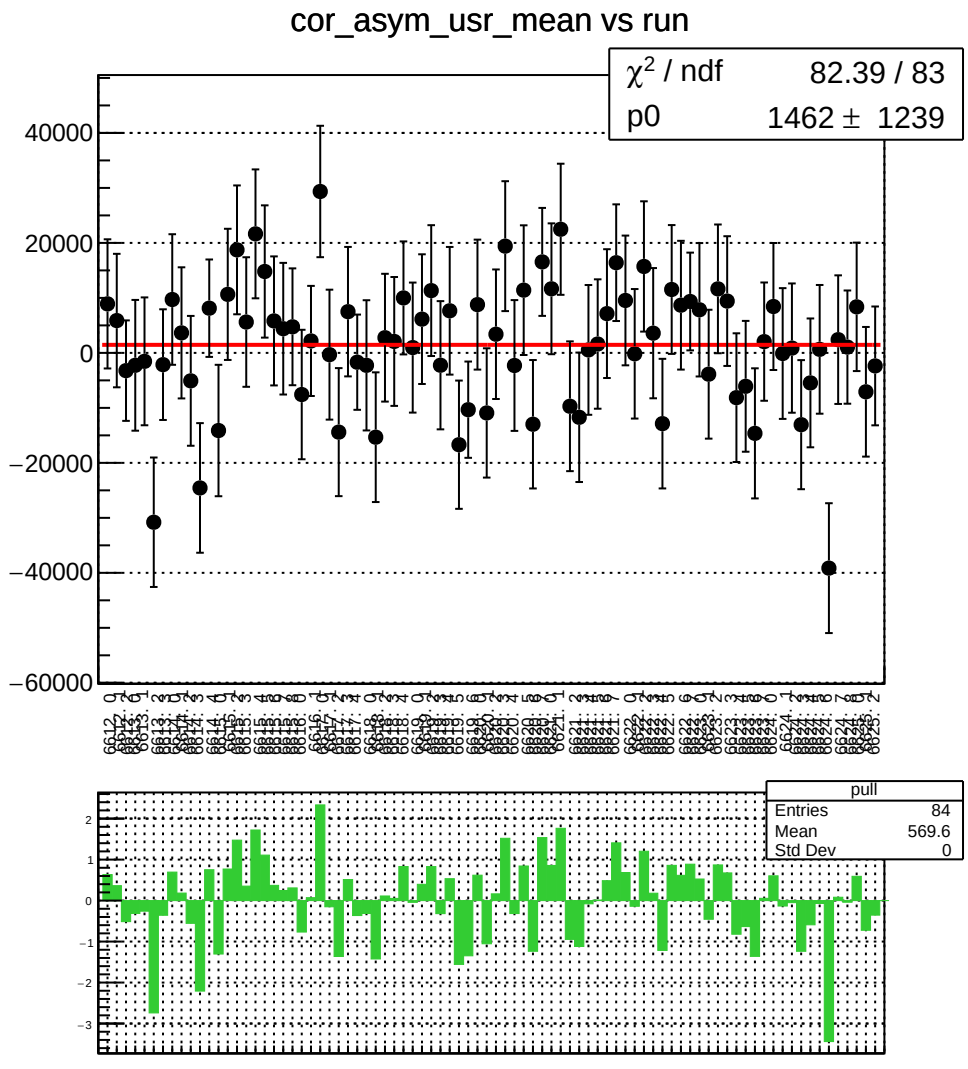

pull1D
Entries 84
Mean −0.002613
Std Dev 0.9904

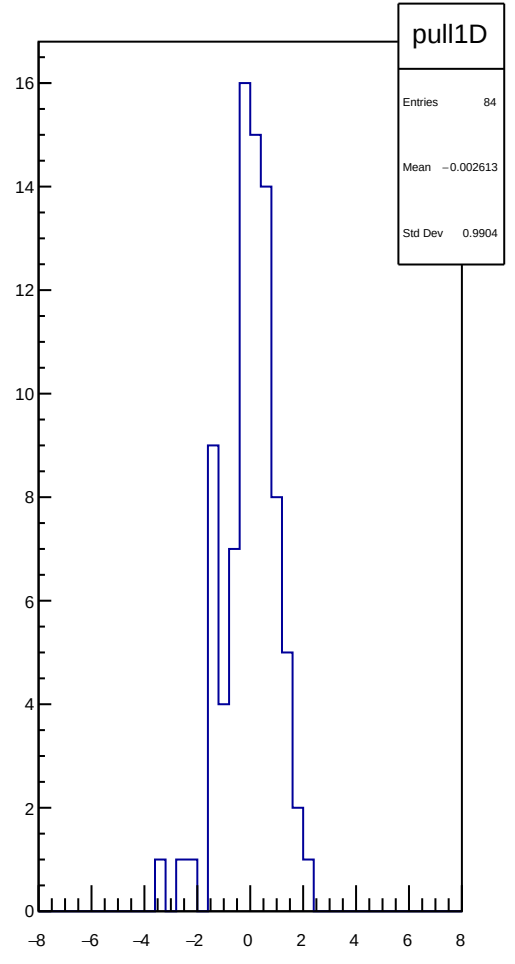

reg_asym_usr_rms vs run
χ² / ndf 163.4 / 83
p0 1119 ± 0.8762
1170
1160
1150
1140
1130
1120
1110
1100
1090
1080

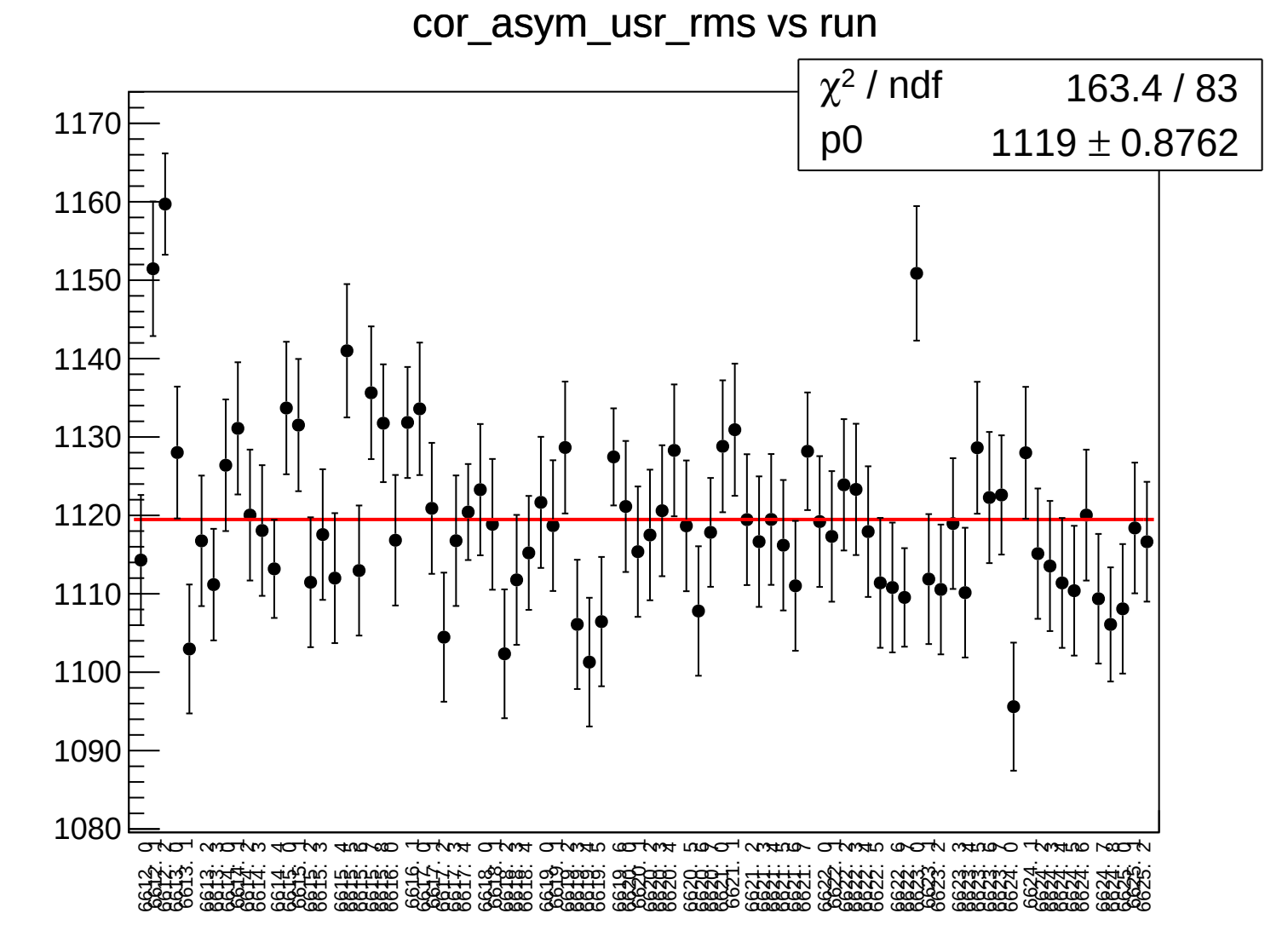

asym_usr_reg_correction_mean vs run
χ² / ndf 74.71 / 83
p0 932 ± 1554
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −62.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

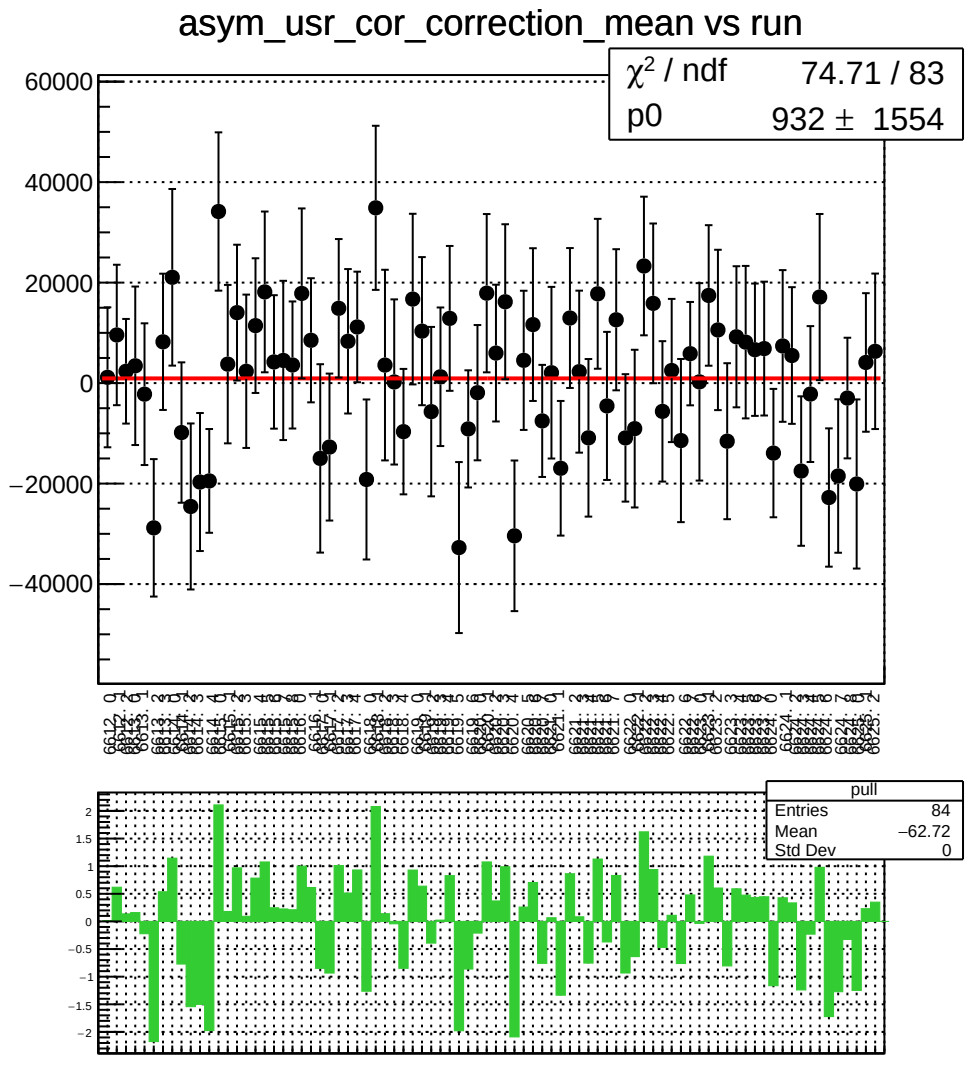

pull1D
Entries 84
Mean 0.01285
Std Dev 0.943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

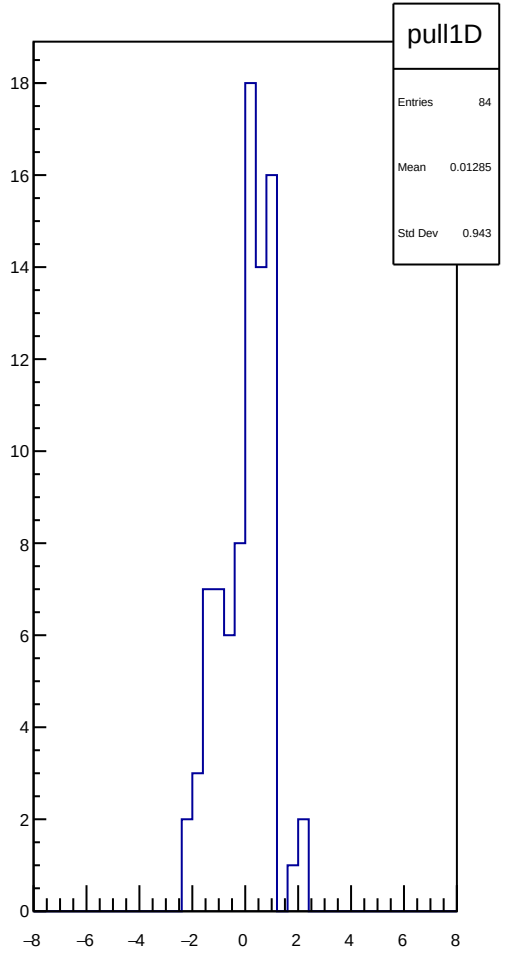

asym_usr_reg_correction_rms vs run
χ² / ndf 1.266e+04 / 83
p0 1399 ± 1.099
1900
1800
1700
1600
1500
1400
1300
1200

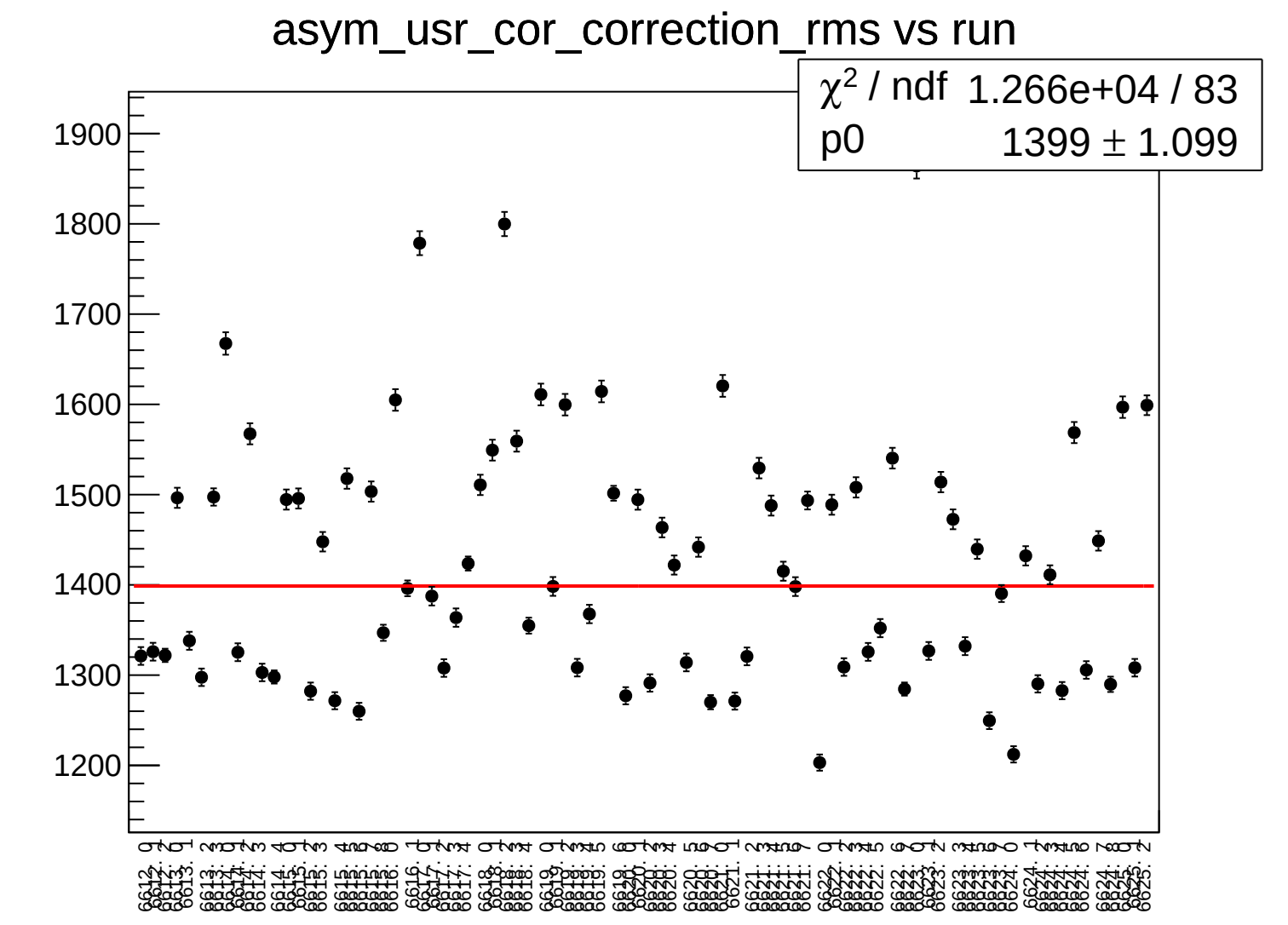

cor_asym_usr_mean vs run
χ² / ndf 82.39 / 83
p0 1462 ± 1239
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 569.6
Std Dev 0
2
1
0
−1
−2
−3

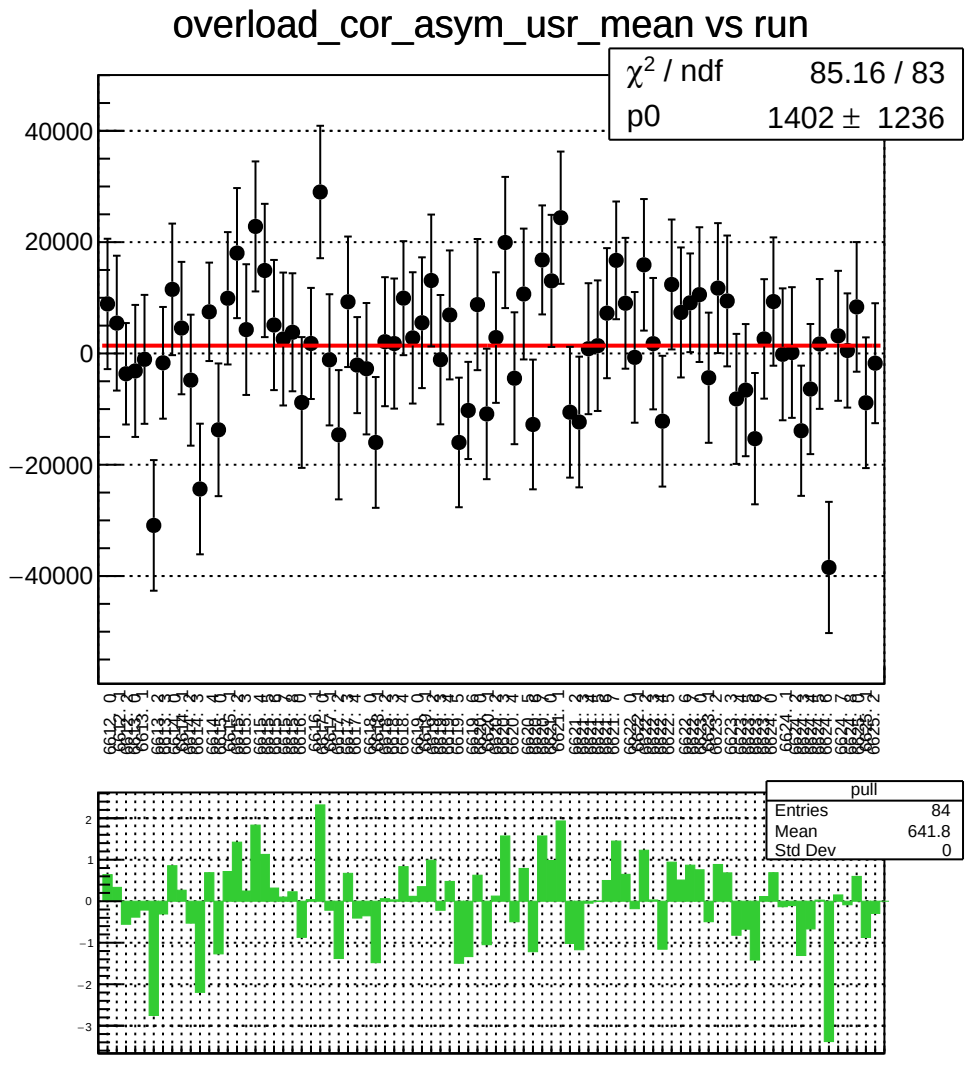

pull1D
Entries 84
Mean −0.002613
Std Dev 0.9904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

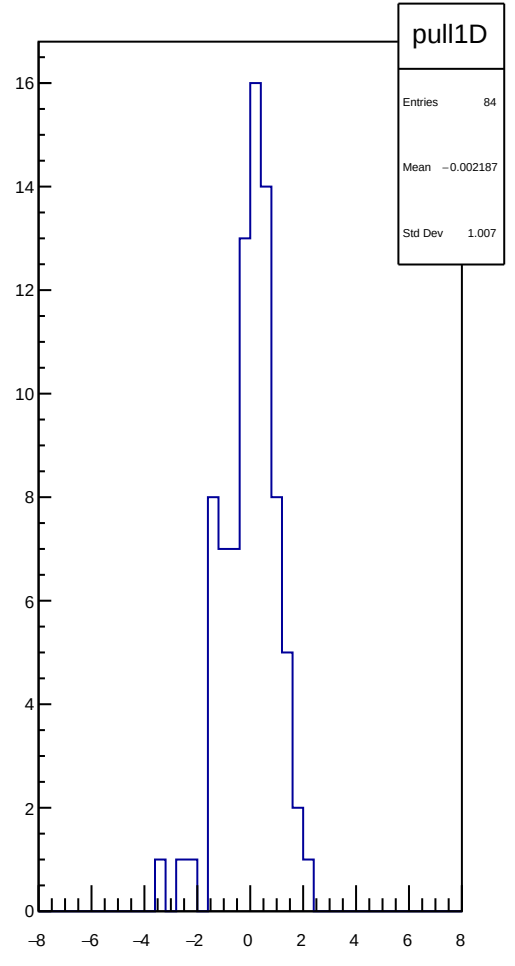

cor_asym_usr_rms vs run
χ² / ndf 163.4 / 83
p0 1119 ± 0.8762
1170
1160
1150
1140
1130
1120
1110
1100
1090
1080

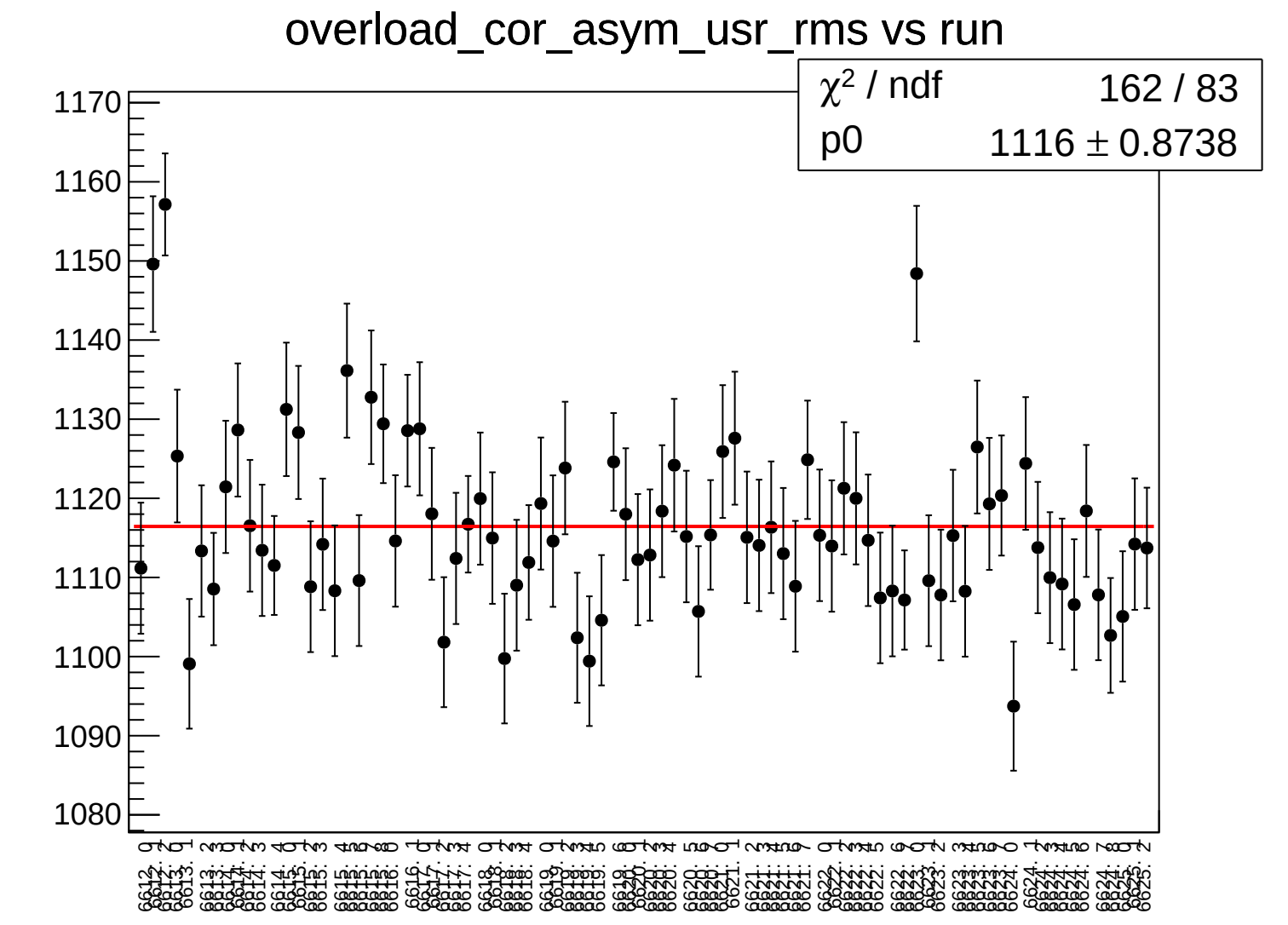

asym_usr_cor_correction_mean vs run
χ² / ndf 74.71 / 83
p0 932 ± 1554
pull
Entries 84
Mean −62.72
Std Dev 0

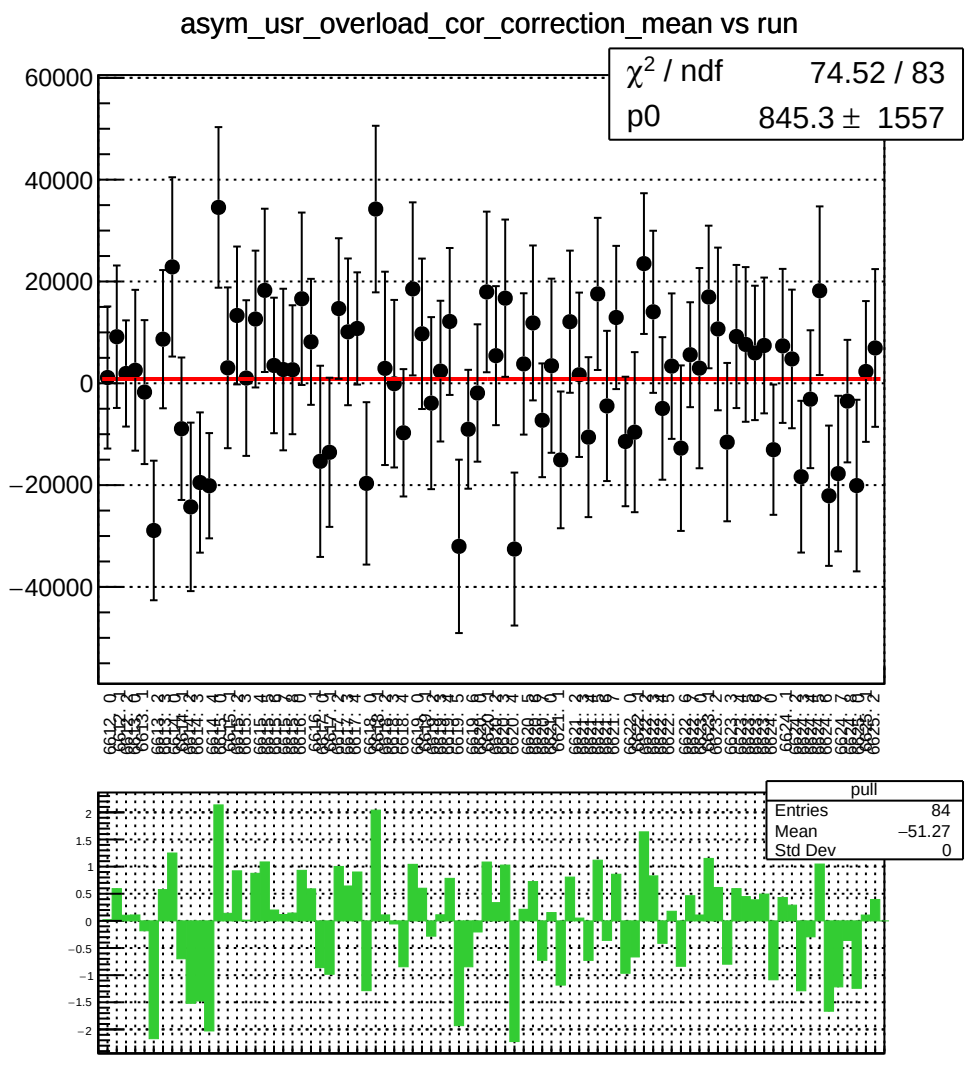

pull1D
Entries 84
Mean 0.01285
Std Dev 0.943

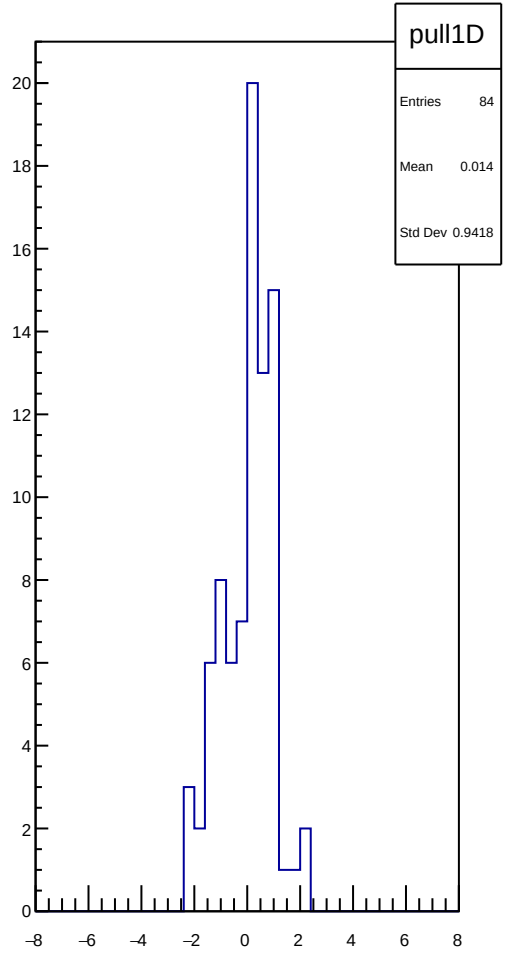

asym_usr_cor_correction_rms vs run
χ² / ndf 1.266e+04 / 83
p0 1399 ± 1.099
1900
1800
1700
1600
1500
1400
1300
1200

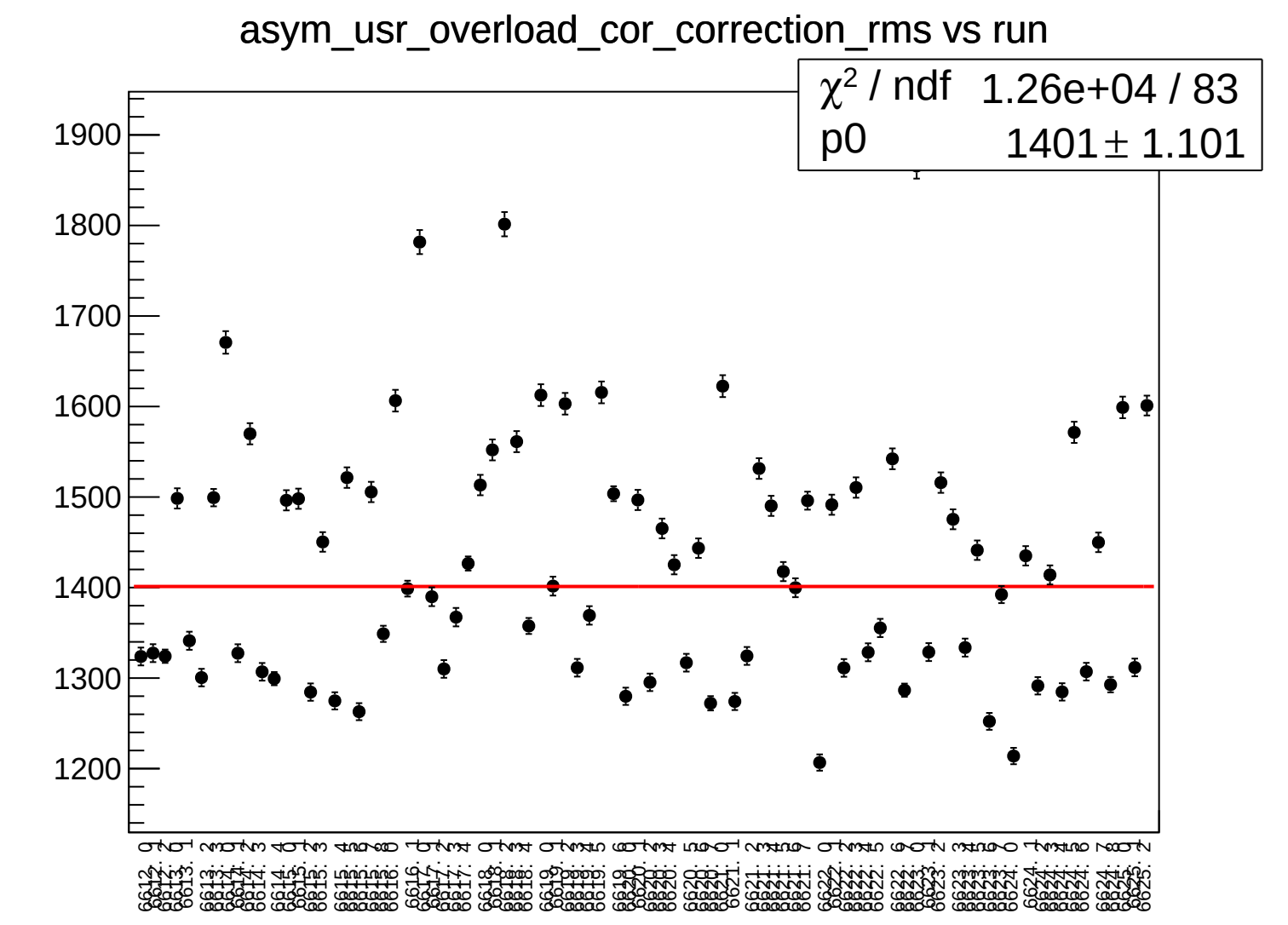

overload_cor_asym_usr_mean vs run
χ² / ndf 85.16 / 83
p0 1402 ± 1236
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 641.8
Std Dev 0
2
1
0
−1
−2
−3

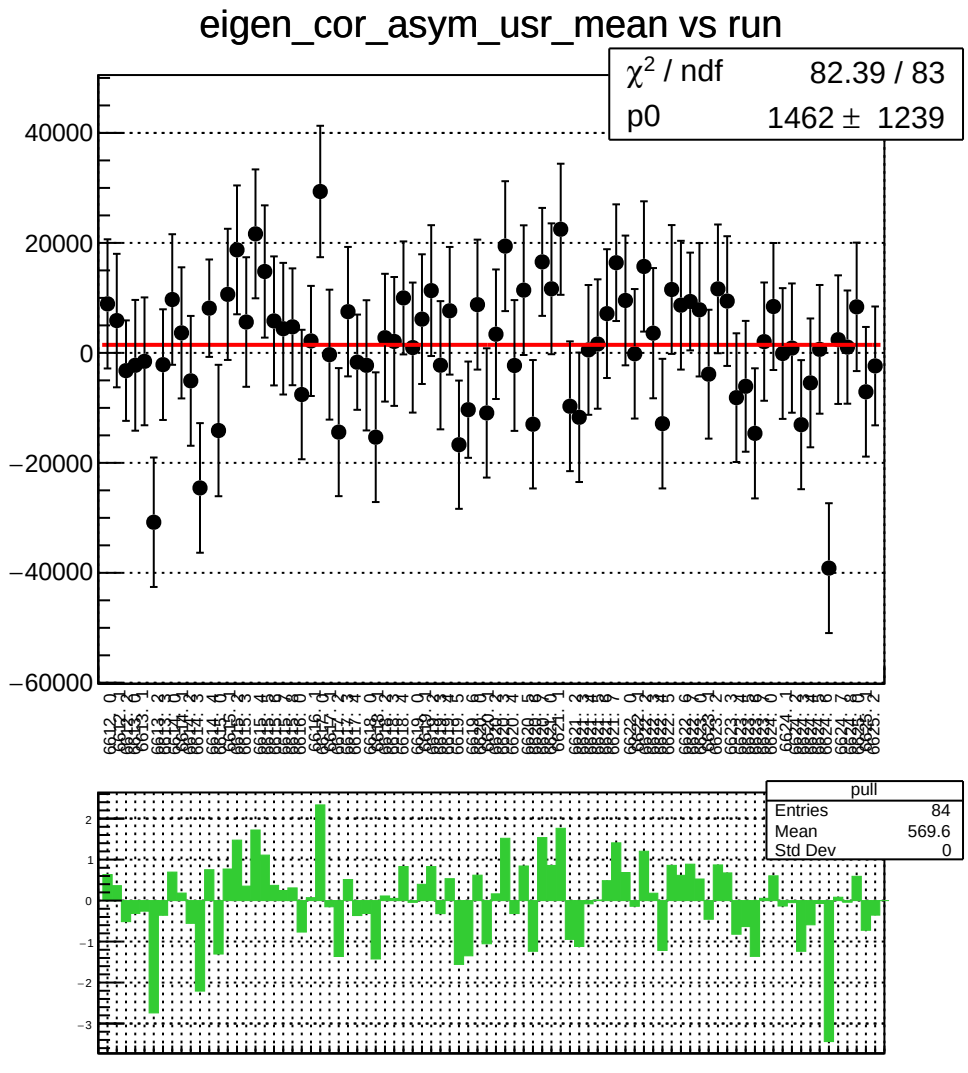

pull1D
Entries 84
Mean −0.002187
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

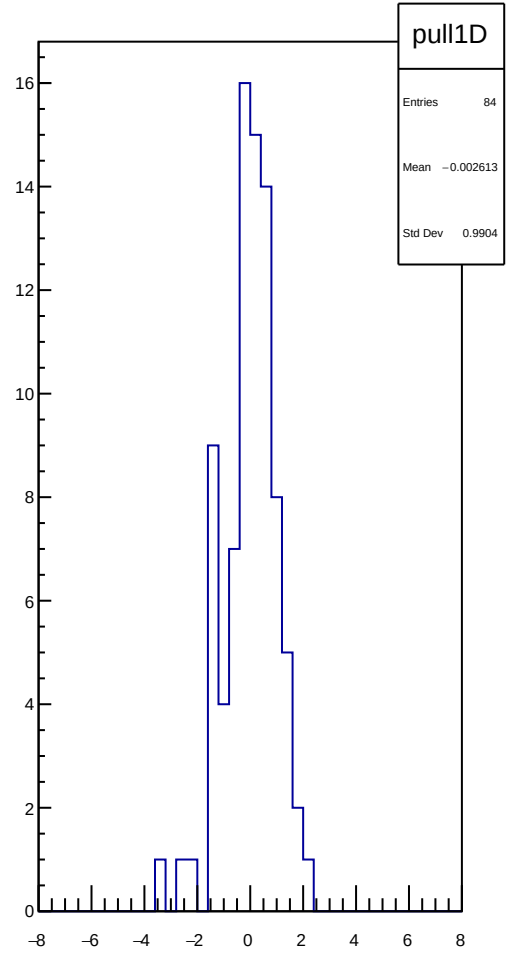

overload_cor_asym_usr_rms vs run
χ² / ndf 162 / 83
p0 1116 ± 0.8738
1170
1160
1150
1140
1130
1120
1110
1100
1090
1080

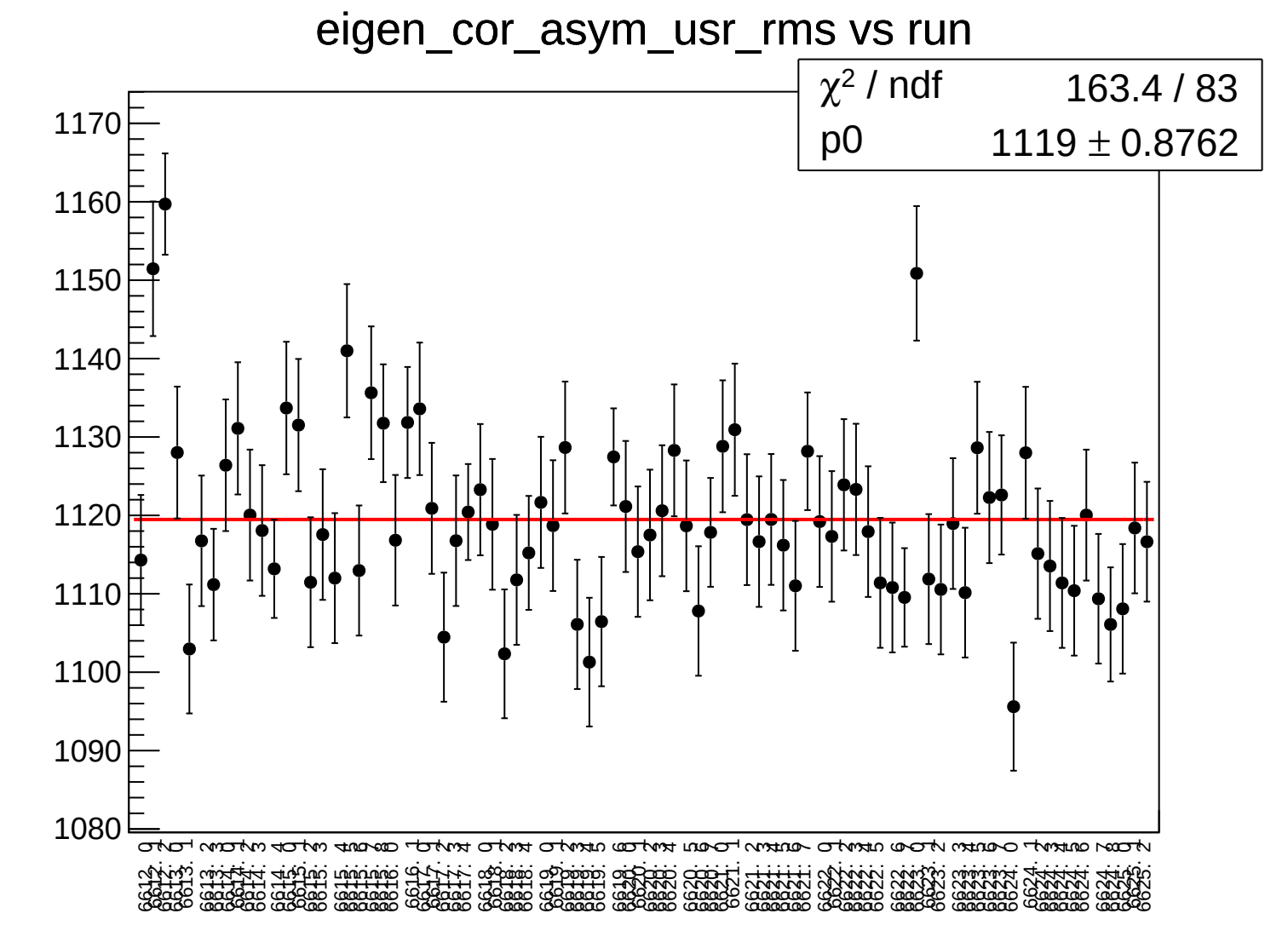

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 74.52 / 83
p0 845.3 ± 1557
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −51.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

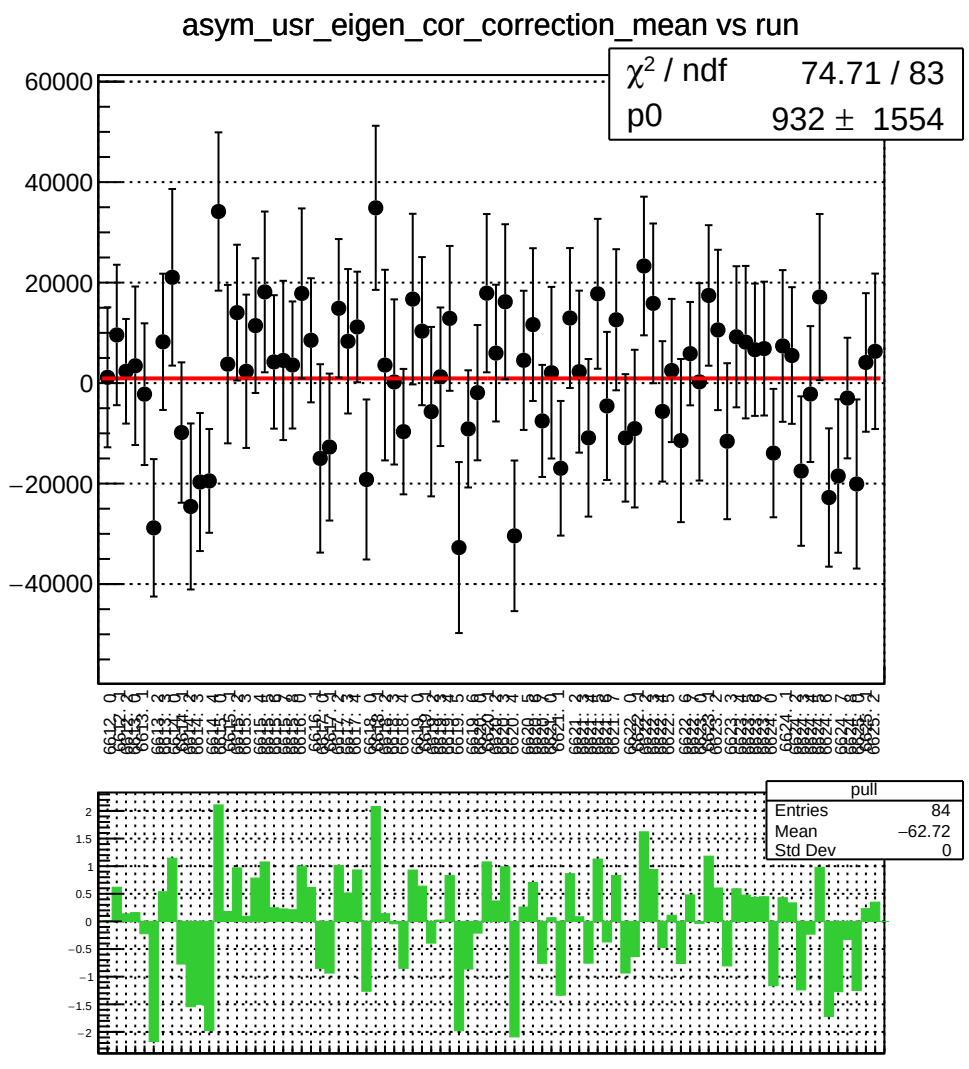

pull1D
Entries 84
Mean 0.014
Std Dev 0.9418
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

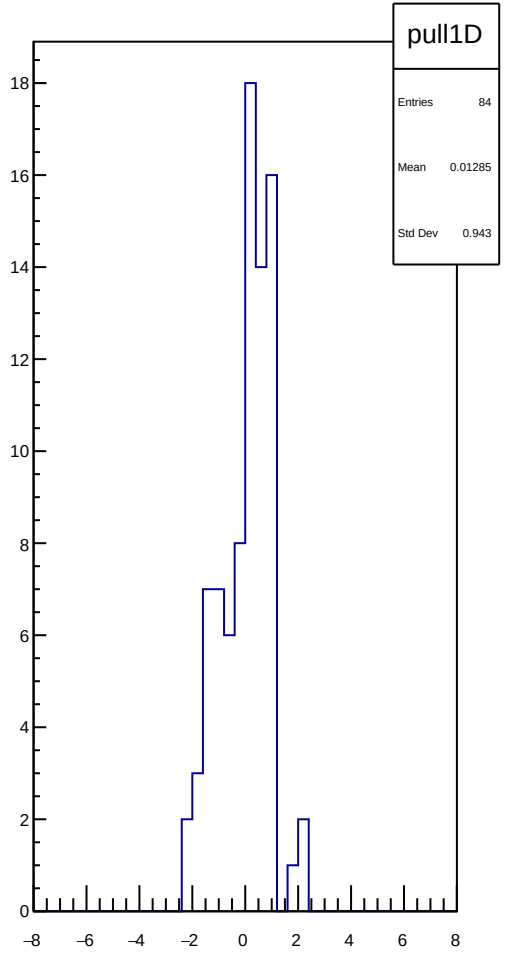

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 1.26e+04 / 83
p0 1401 ± 1.101
1900
1800
1700
1600
1500
1400
1300
1200

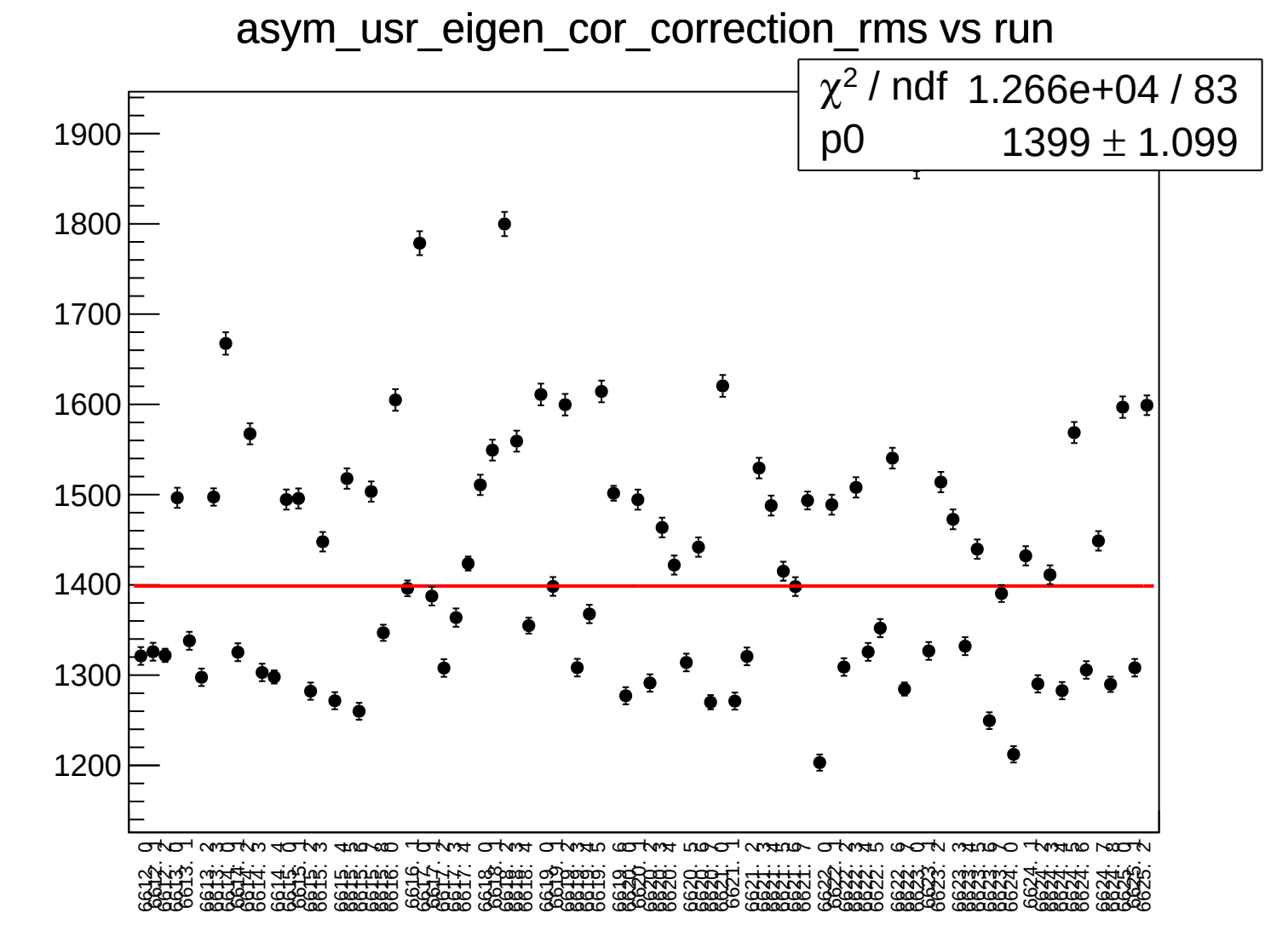

eigen_cor_asym_usr_mean vs run
χ² / ndf 82.39 / 83
p0 1462 ± 1239
pull
Entries 84
Mean 569.6
Std Dev 0

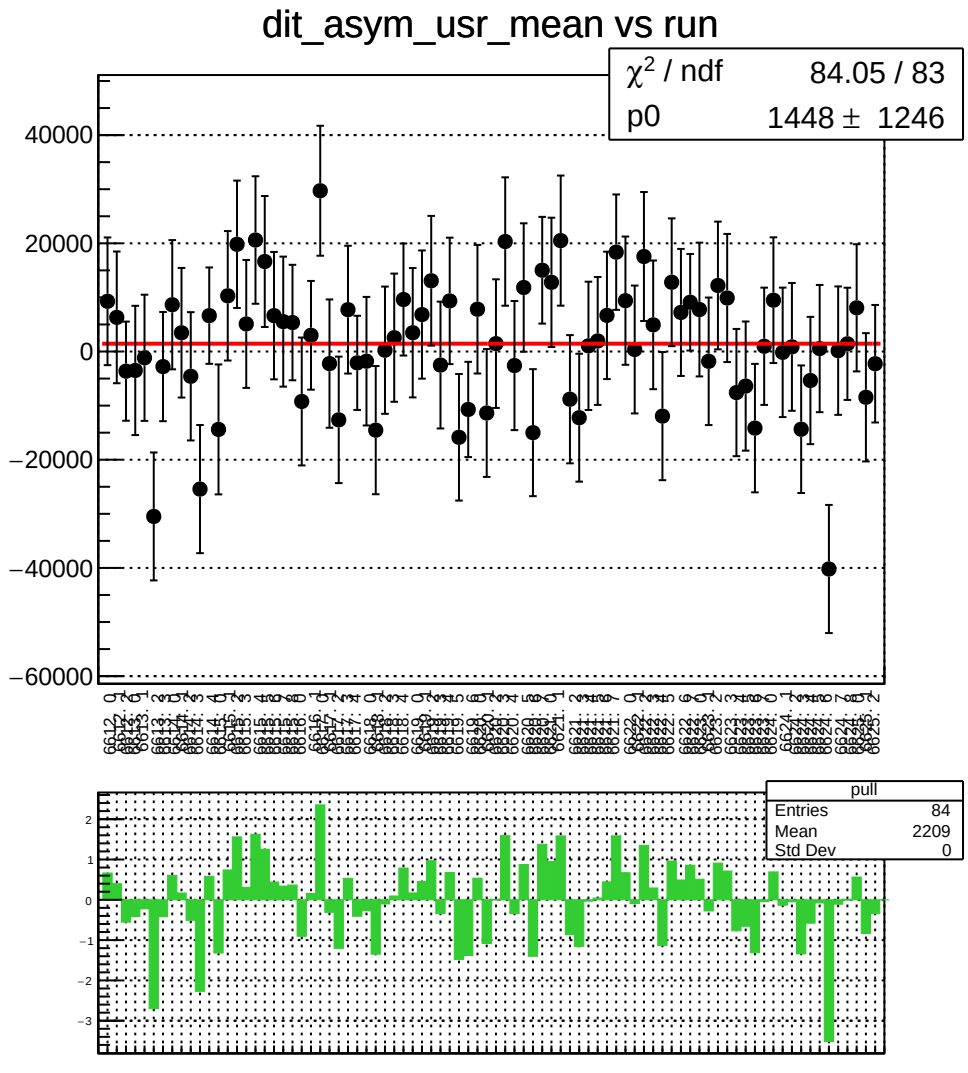

pull1D
Entries 84
Mean −0.002613
Std Dev 0.9904

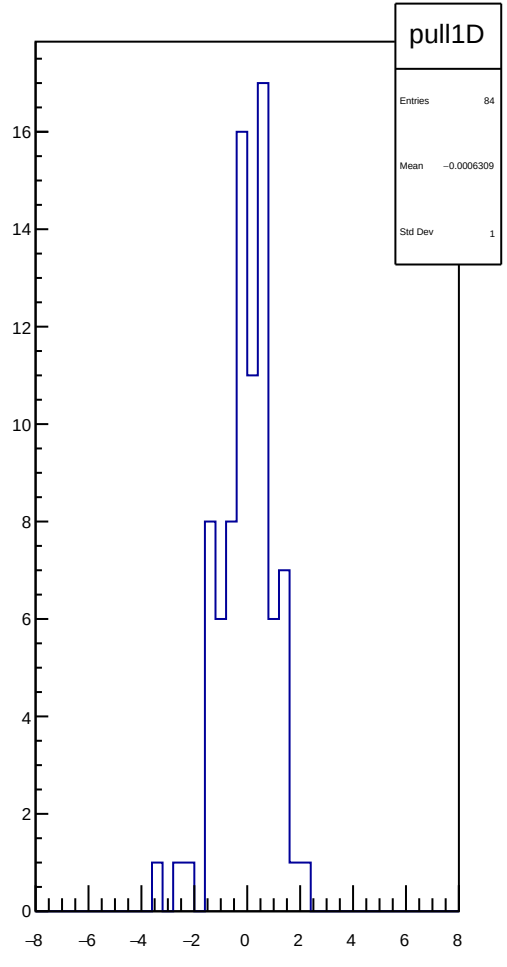

eigen_cor_asym_usr_rms vs run
χ² / ndf 163.4 / 83
p0 1119 ± 0.8762
1170
1160
1150
1140
1130
1120
1110
1100
1090
1080

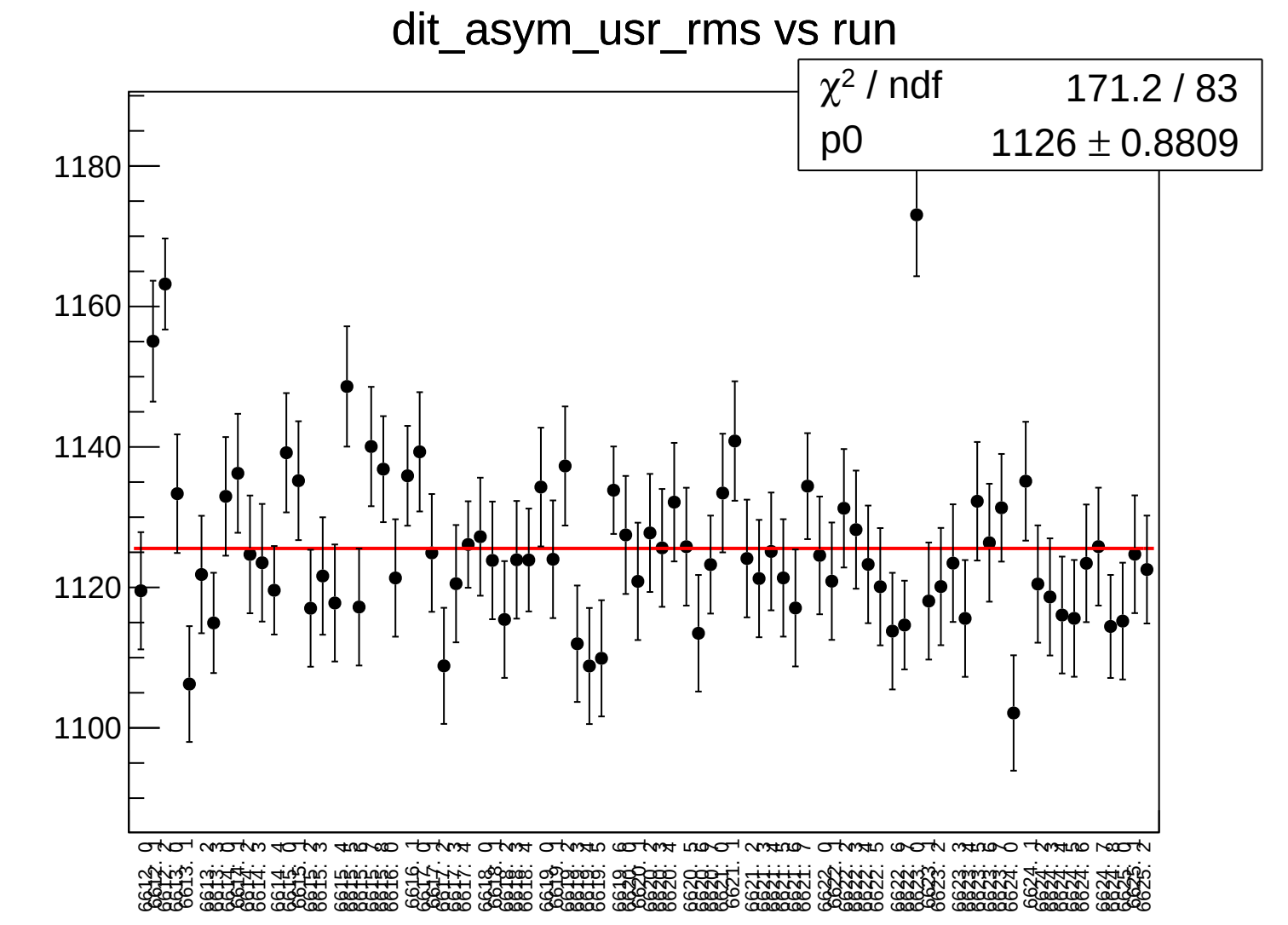

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 74.71 / 83
p0 932 ± 1554
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −62.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

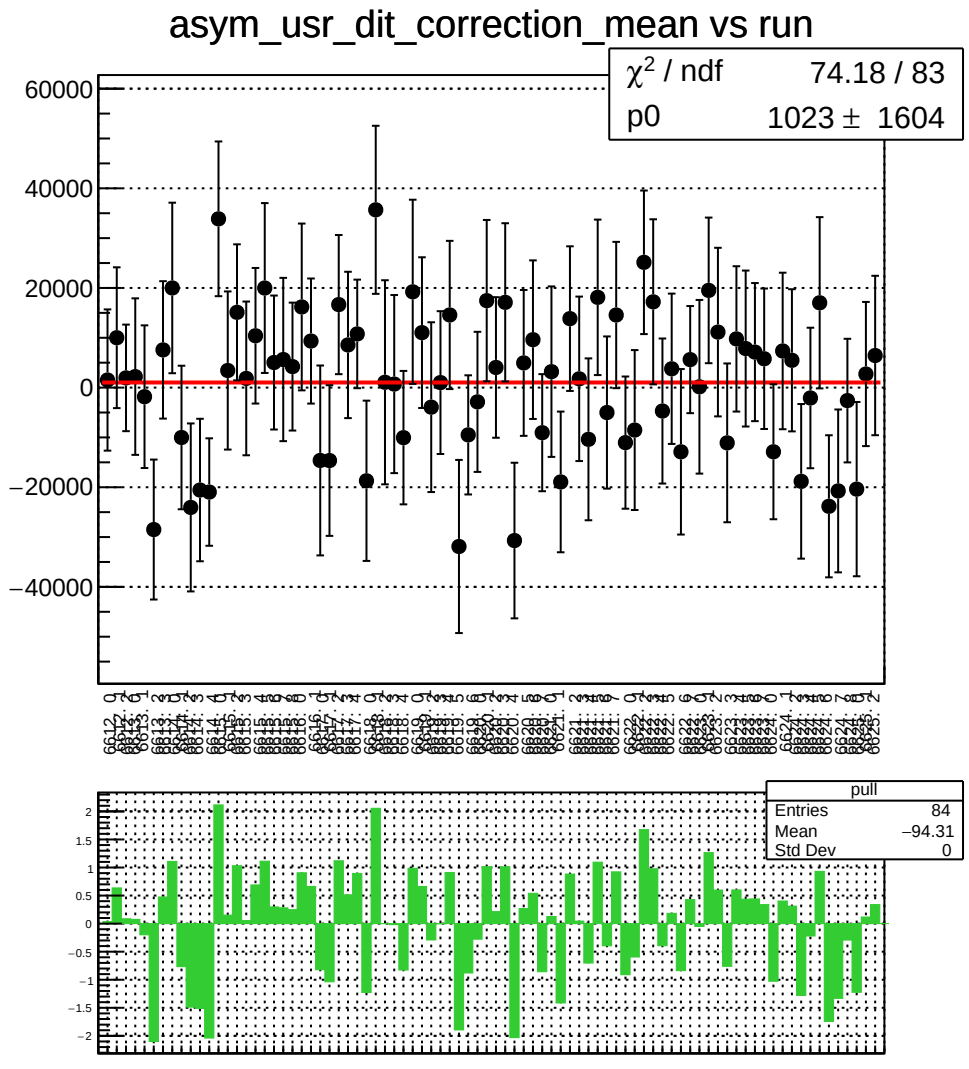

pull1D
Entries 84
Mean 0.01285
Std Dev 0.943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

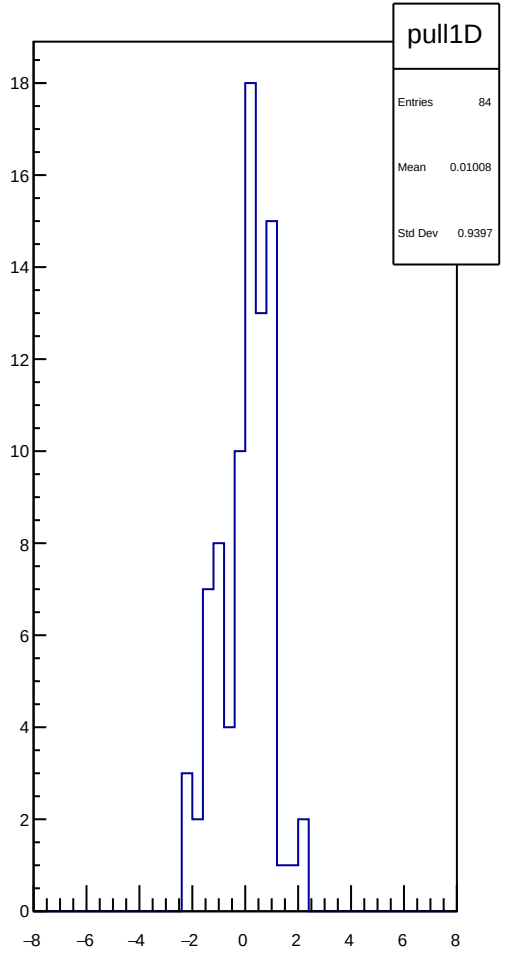

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 1.266e+04 / 83
p0 1399 ± 1.099
1900
1800
1700
1600
1500
1400
1300
1200

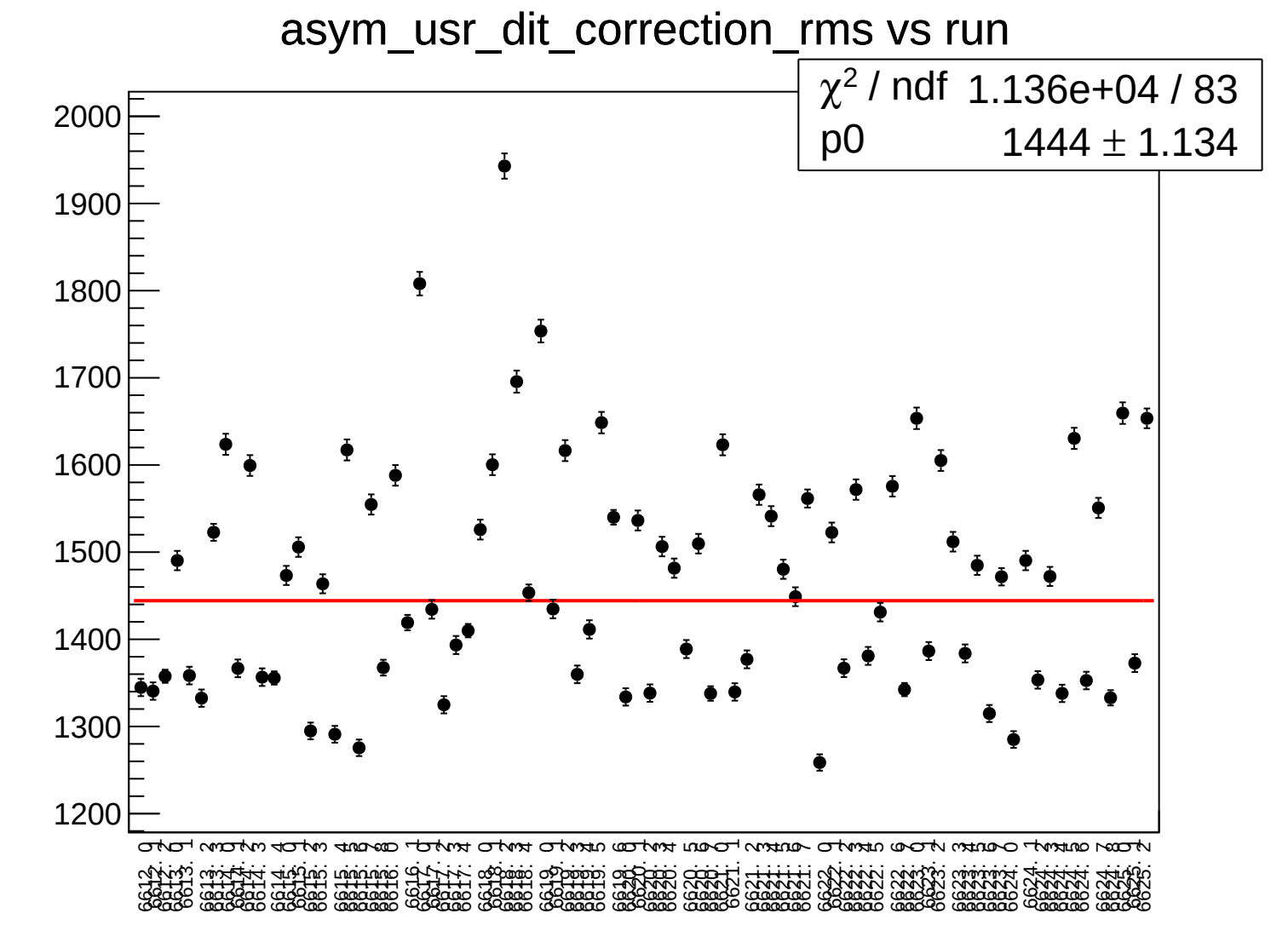

dit_asym_usr_mean vs run
χ² / ndf 84.05 / 83
p0 1448 ± 1246
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 2209
Std Dev 0
2
1
0
−1
−2
−3

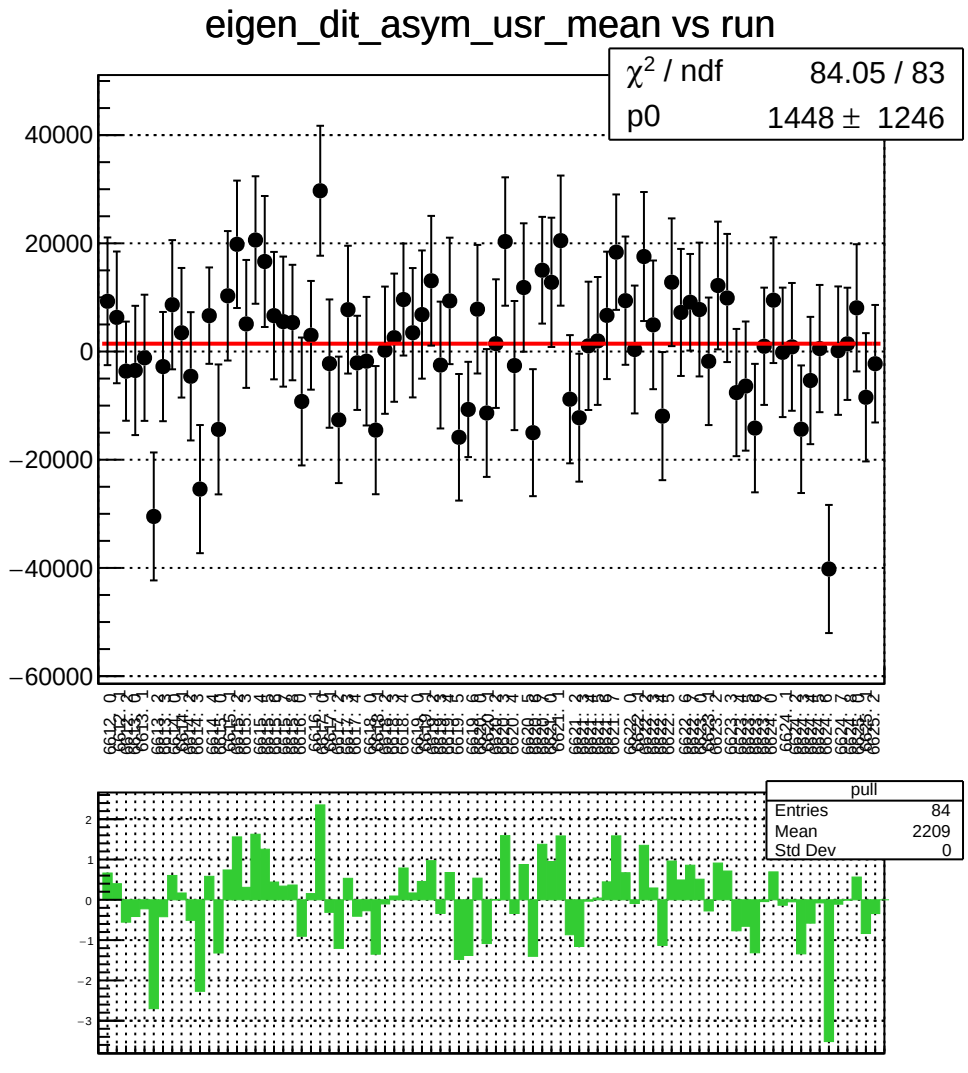

pull1D
Entries 84
Mean −0.0006309
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

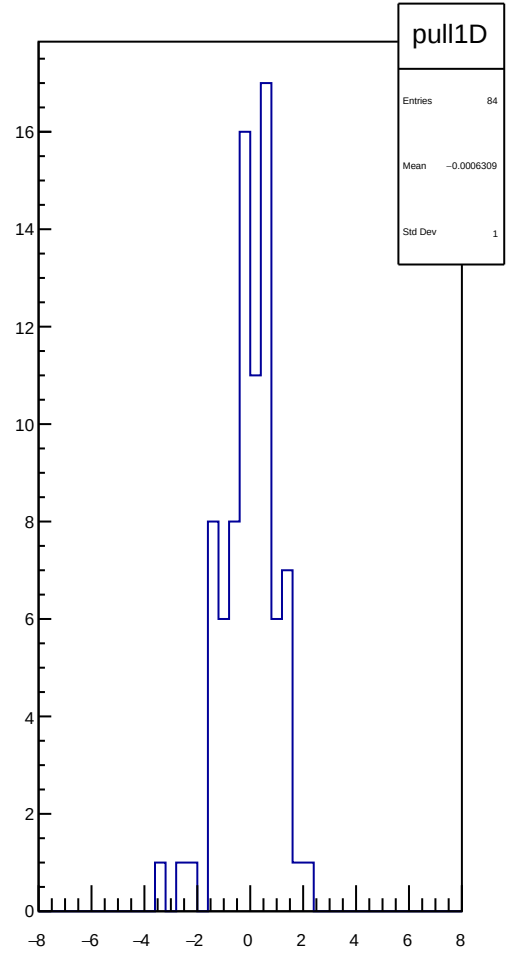

dit_asym_usr_rms vs run
χ² / ndf 171.2 / 83
p0 1126 ± 0.8809
1180
1160
1140
1120
1100

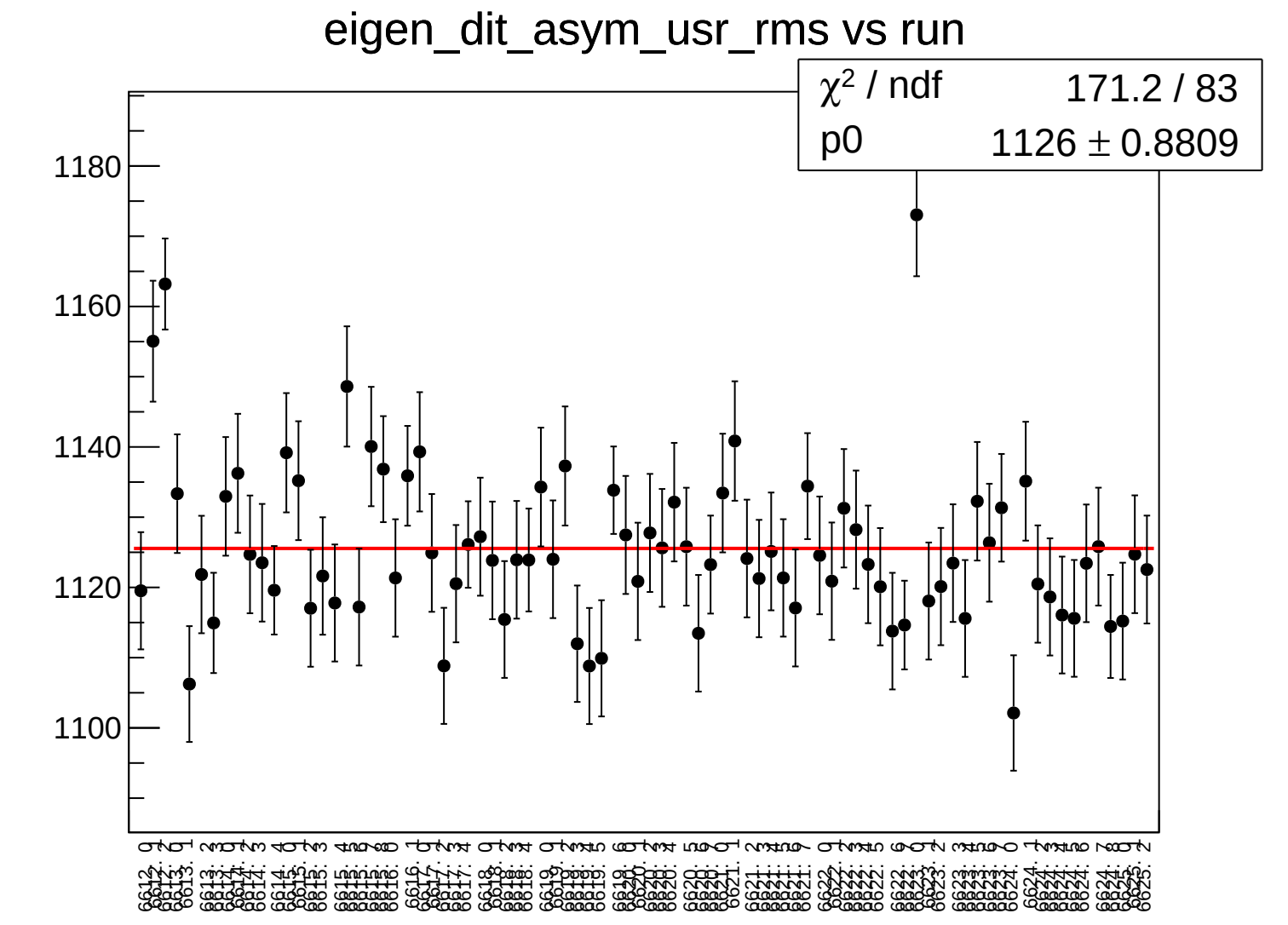

asym_usr_dit_correction_mean vs run
χ² / ndf 74.18 / 83
p0 1023 ± 1604
pull
Entries 84
Mean −94.31
Std Dev 0

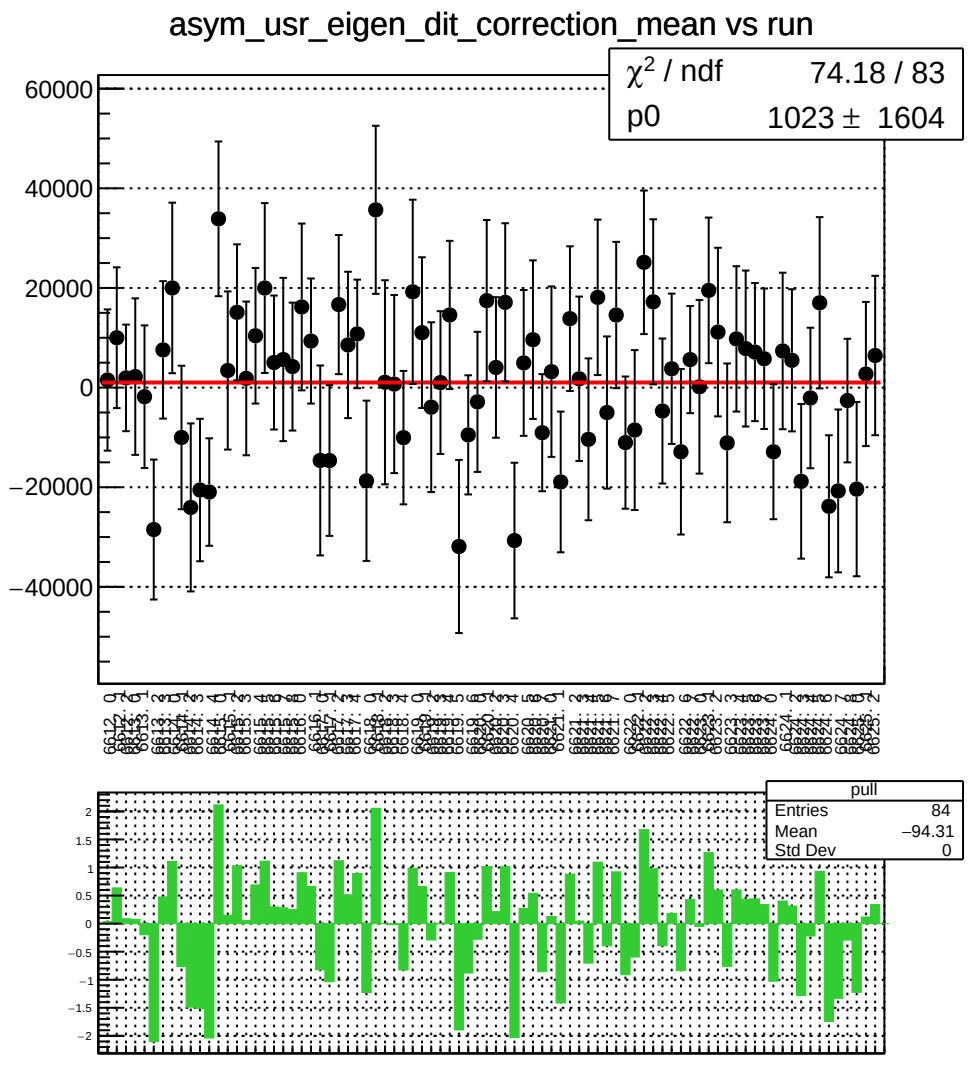

pull1D
Entries 84
Mean 0.01008
Std Dev 0.9397

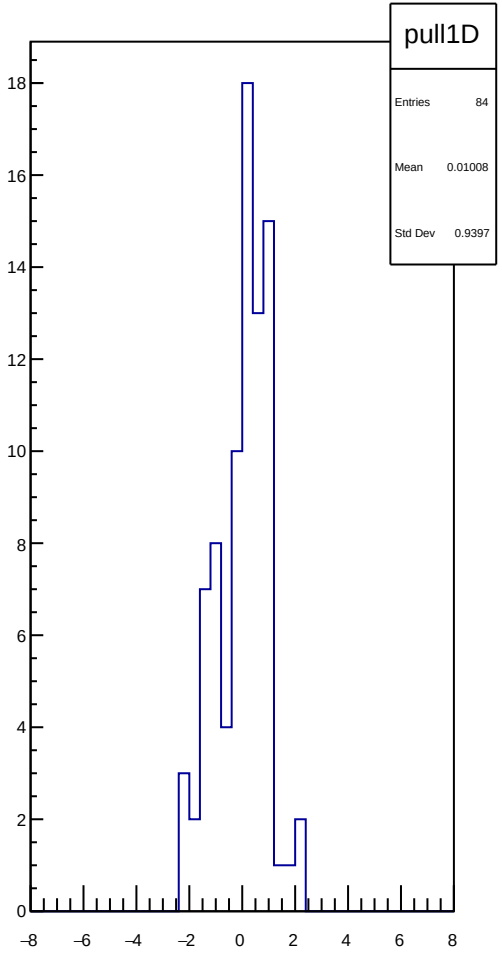

asym_usr_dit_correction_rms vs run
χ² / ndf 1.136e+04 / 83
p0 1444 ± 1.134
2000
1900
1800
1700
1600
1500
1400
1300
1200

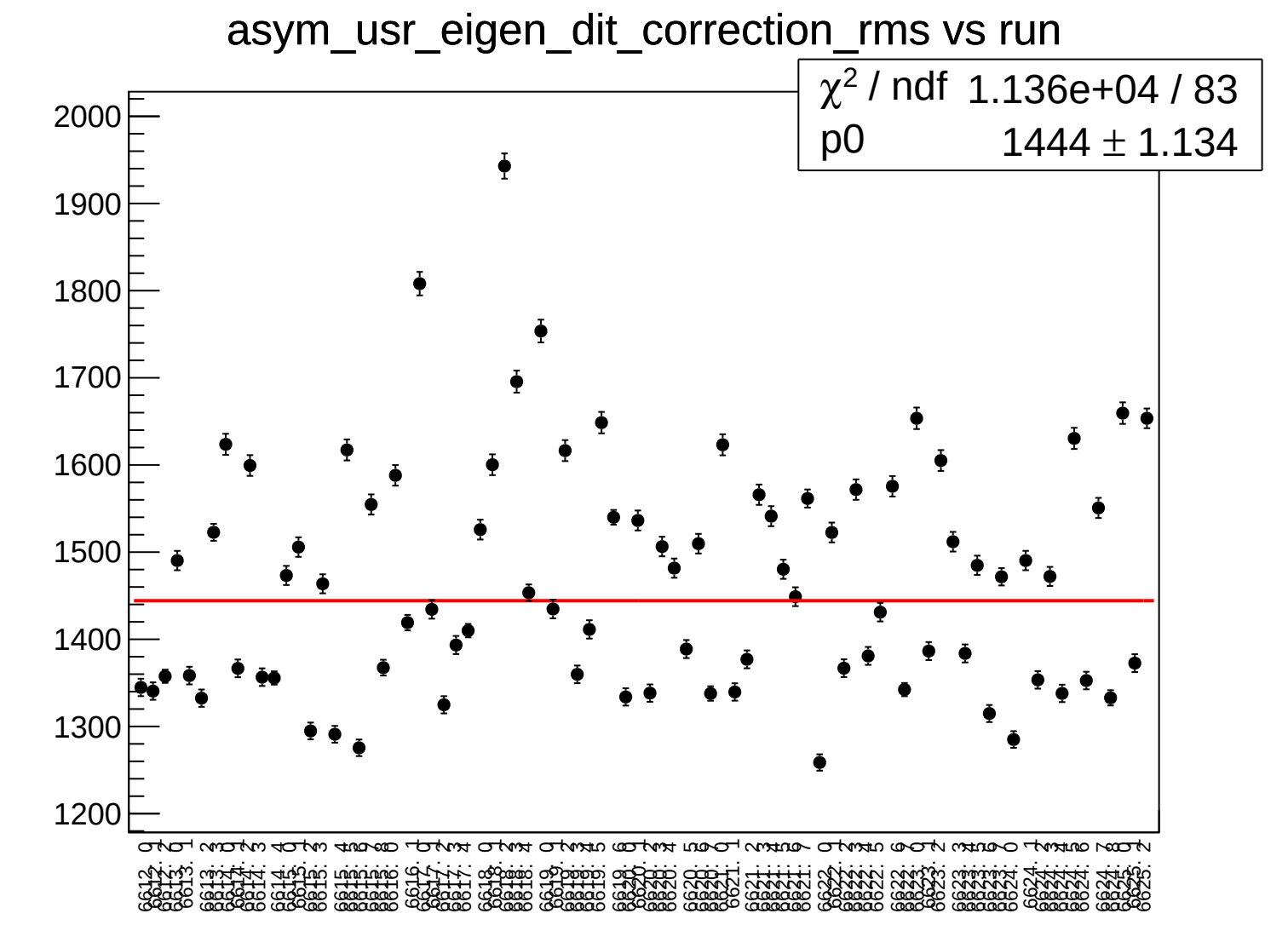

eigen_dit_asym_usr_mean vs run
χ² / ndf 84.05 / 83
p0 1448 ± 1246
pull
Entries 84
Mean 2209
Std Dev 0

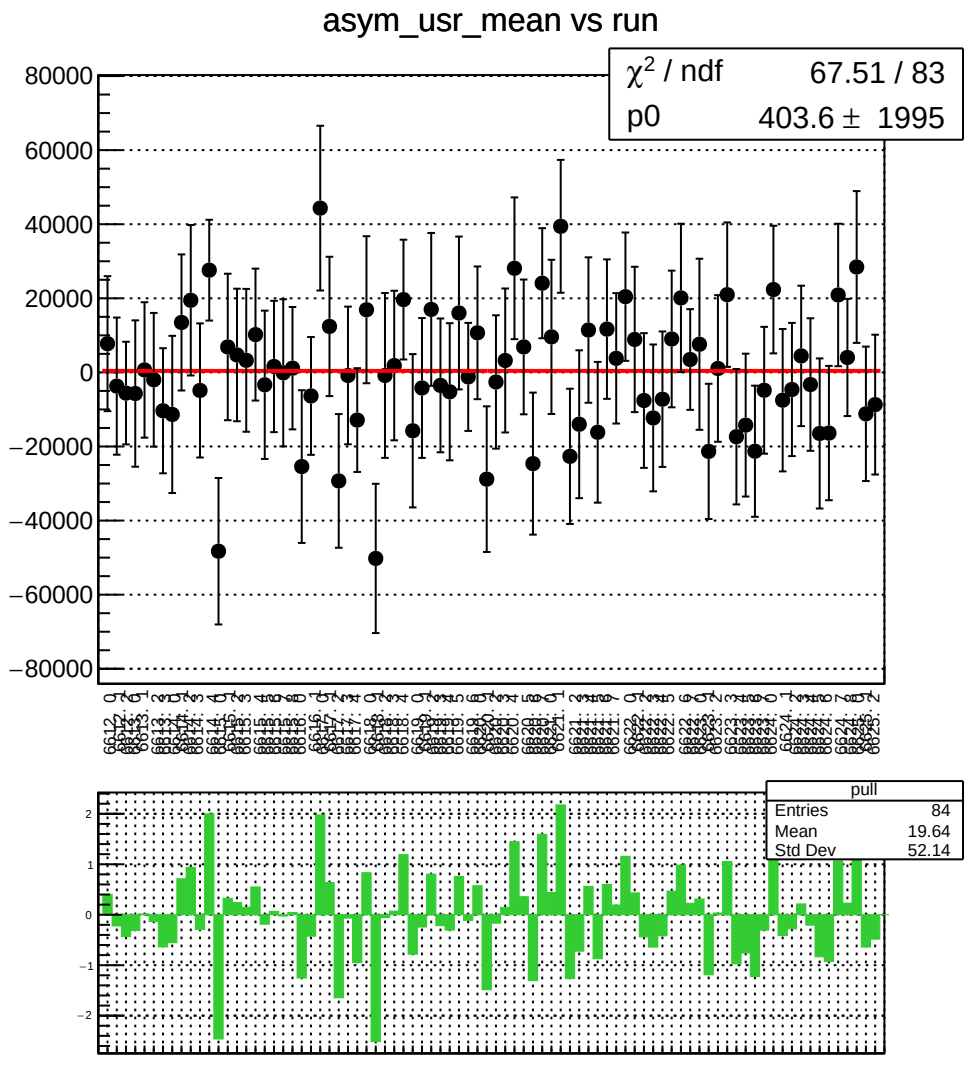

pull1D
Entries 84
Mean −0.0006309
Std Dev 1

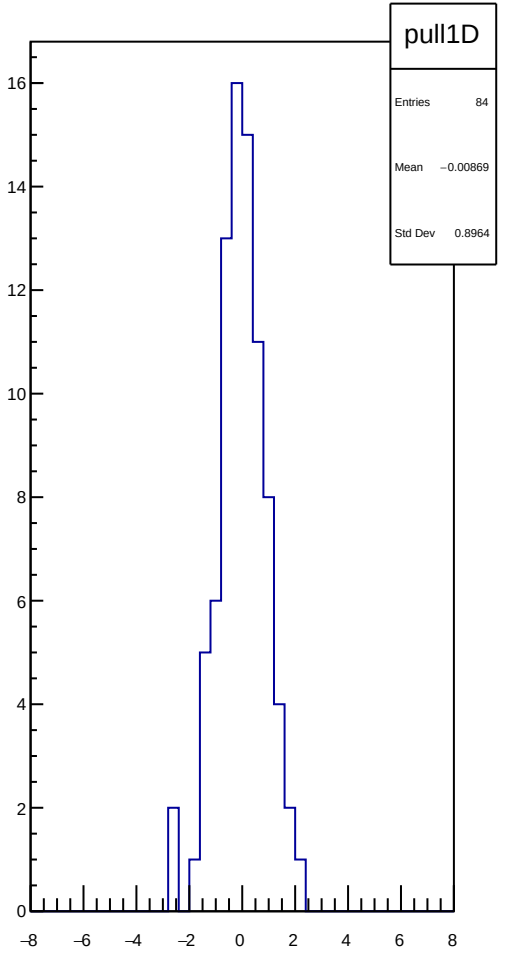

eigen_dit_asym_usr_rms vs run
χ^2 / ndf 171.2 / 83
p0 1126 ± 0.8809
1180
1160
1140
1120
1100

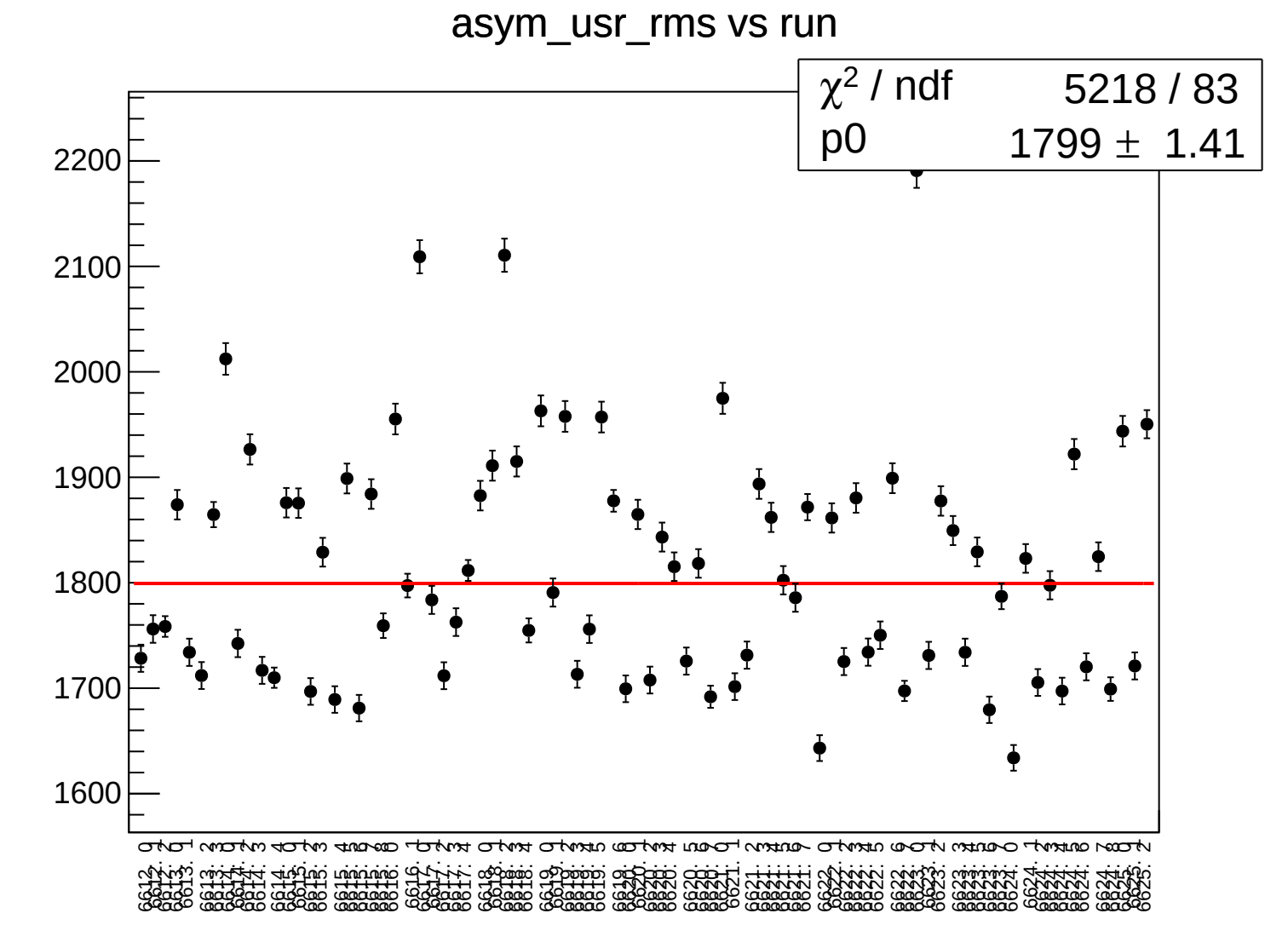

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 74.18 / 83
p0 1023 ± 1604
pull
Entries 84
Mean −94.31
Std Dev 0

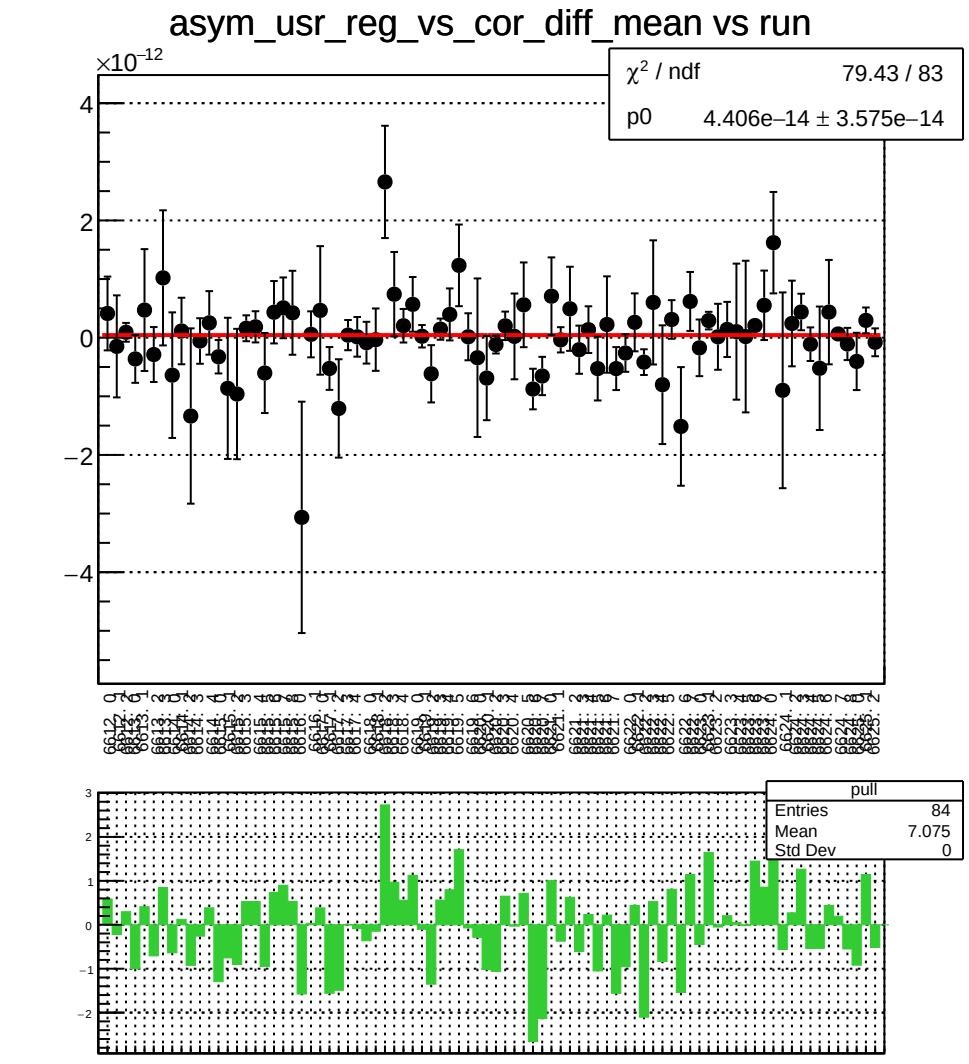

pull1D
Entries 84
Mean 0.01008
Std Dev 0.9397

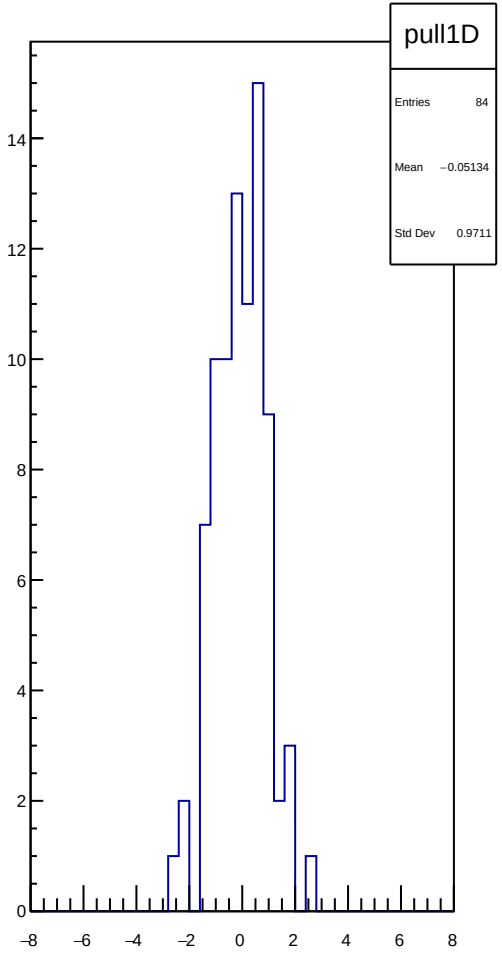

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 1.136e+04 / 83
p0 1444 ± 1.134
2000
1900
1800
1700
1600
1500
1400
1300
1200

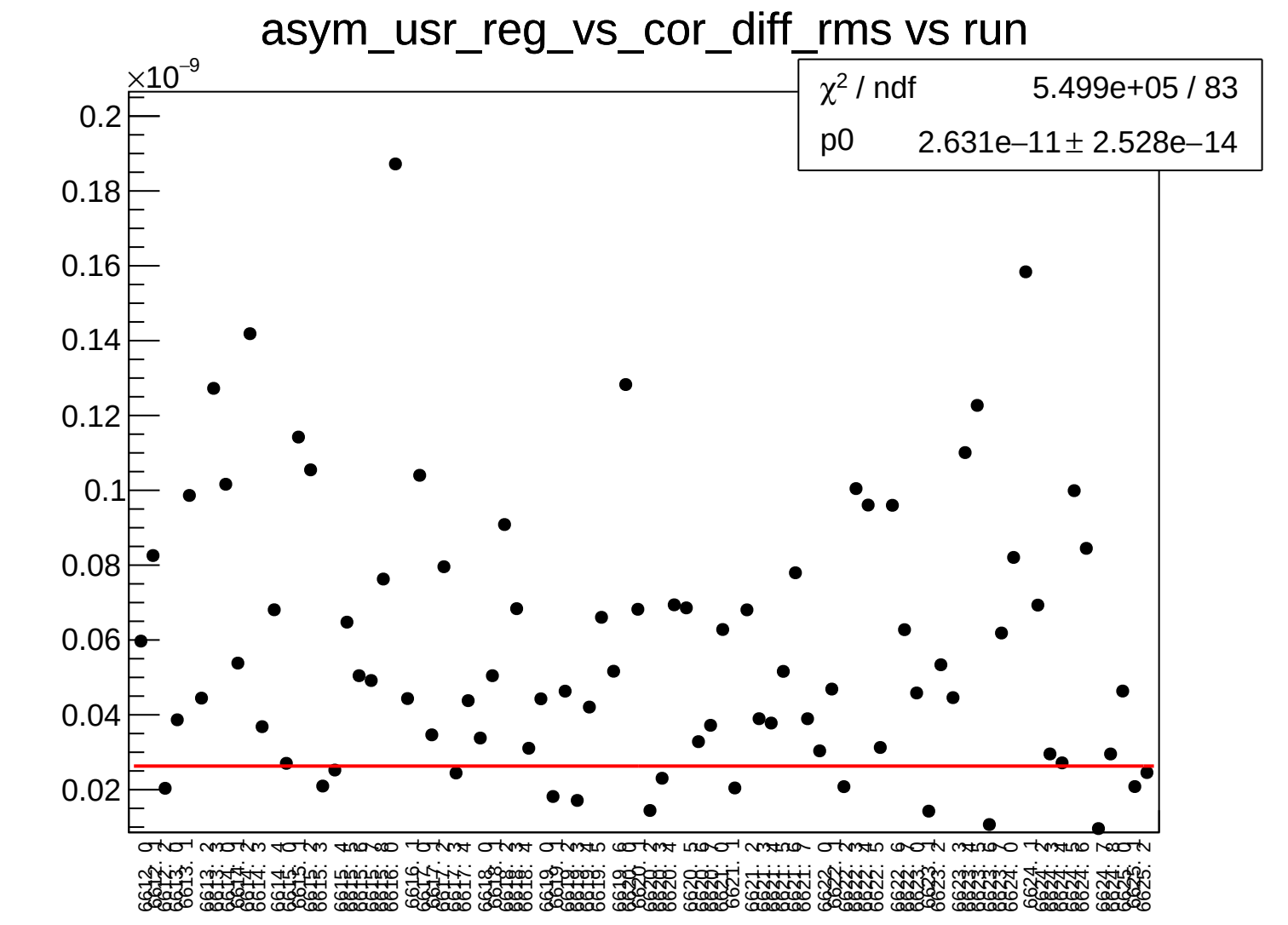

asym_usr_mean vs run
χ² / ndf 67.51 / 83
p0 403.6 ± 1995
pull
Entries 84
Mean 19.64
Std Dev 52.14

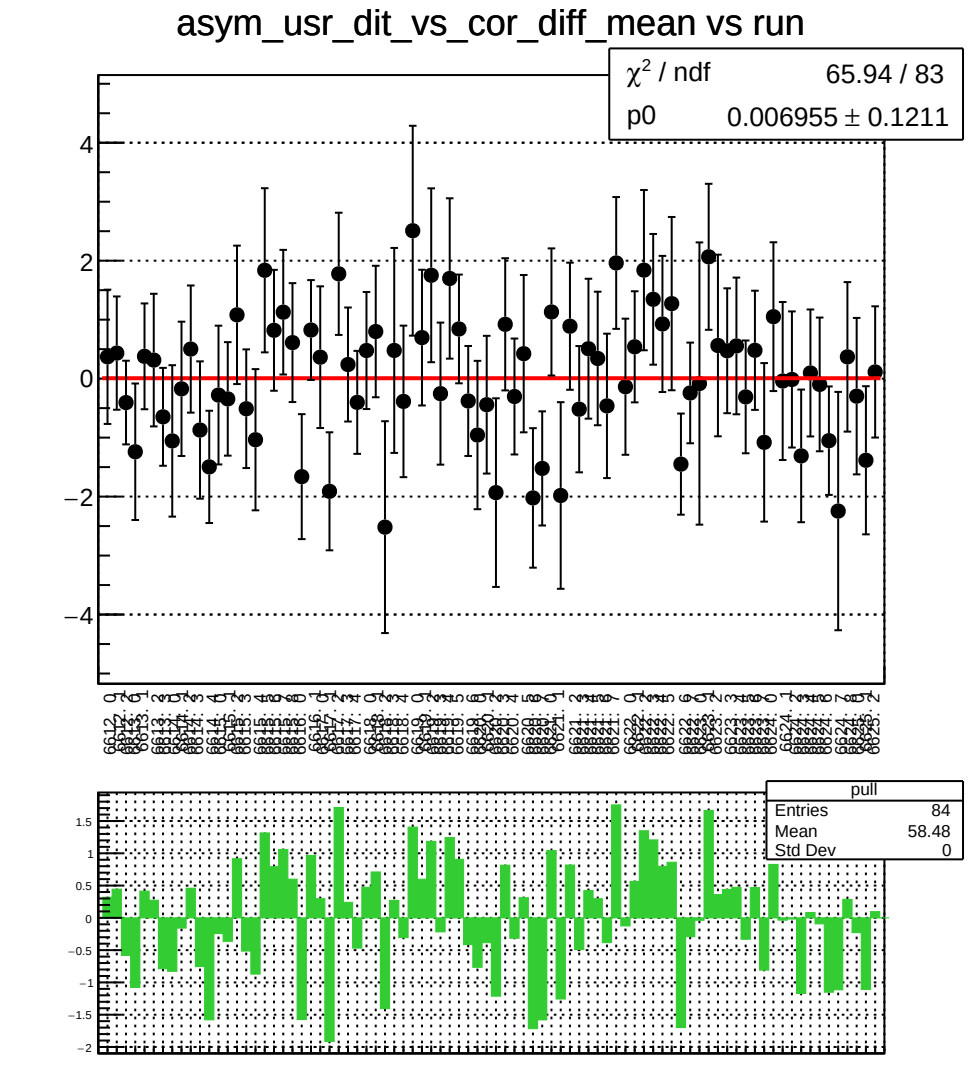

pull1D
Entries 84
Mean −0.00869
Std Dev 0.8964

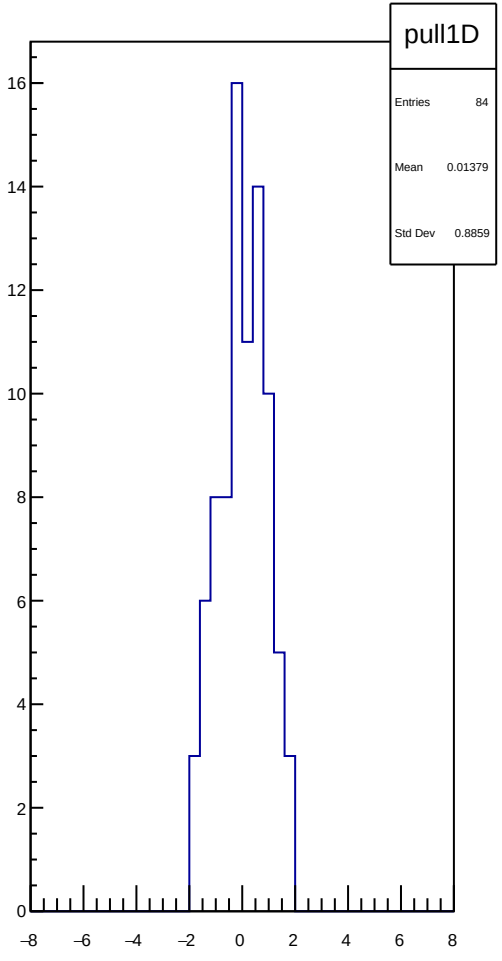

asym_usr_rms vs run
χ² / ndf 5218 / 83
p0 1799 ± 1.41
2200
2100
2000
1900
1800
1700
1600

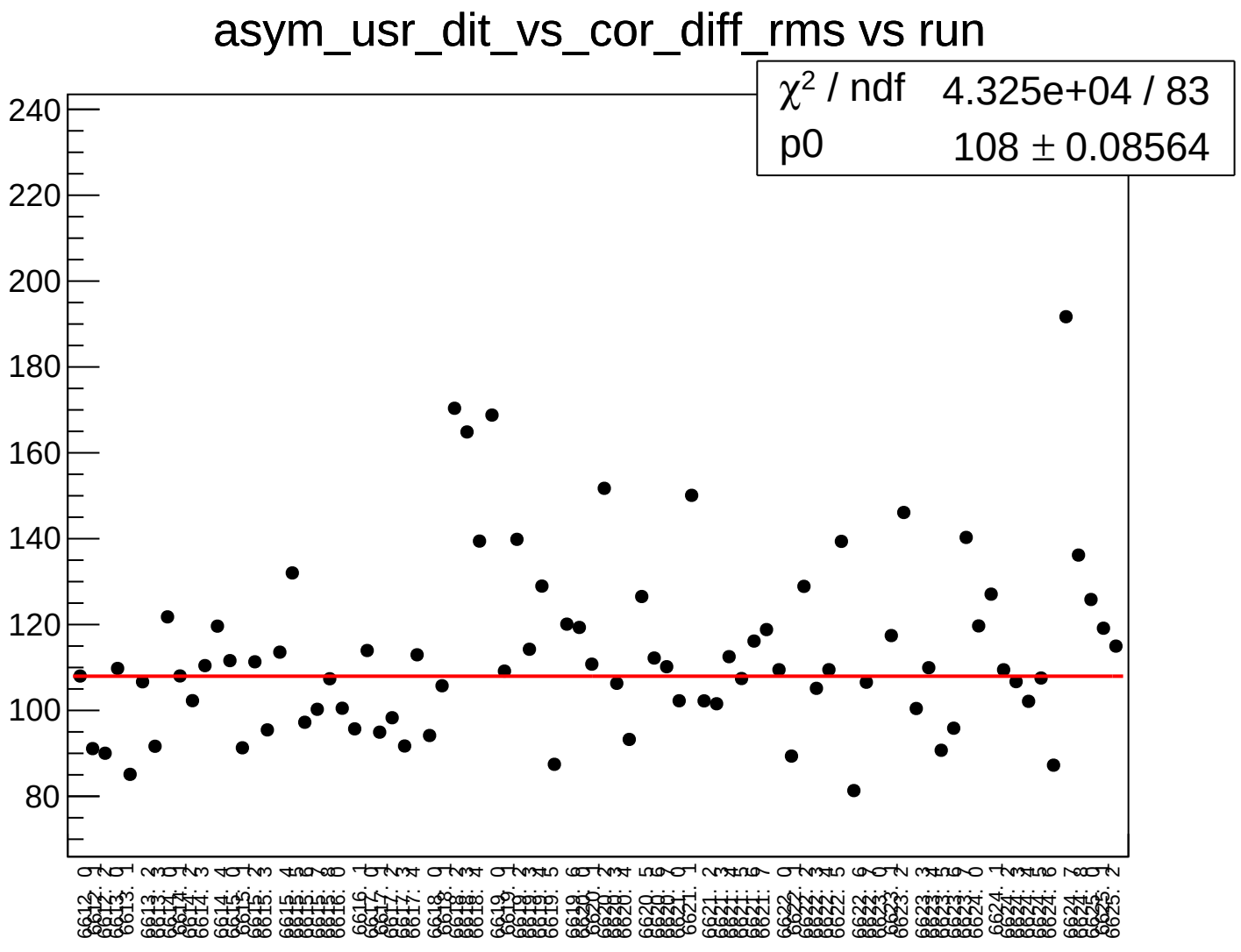

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.43 / 83
p0 4.406e−14 ± 3.575e−14
pull
Entries 84
Mean 7.075
Std Dev 0

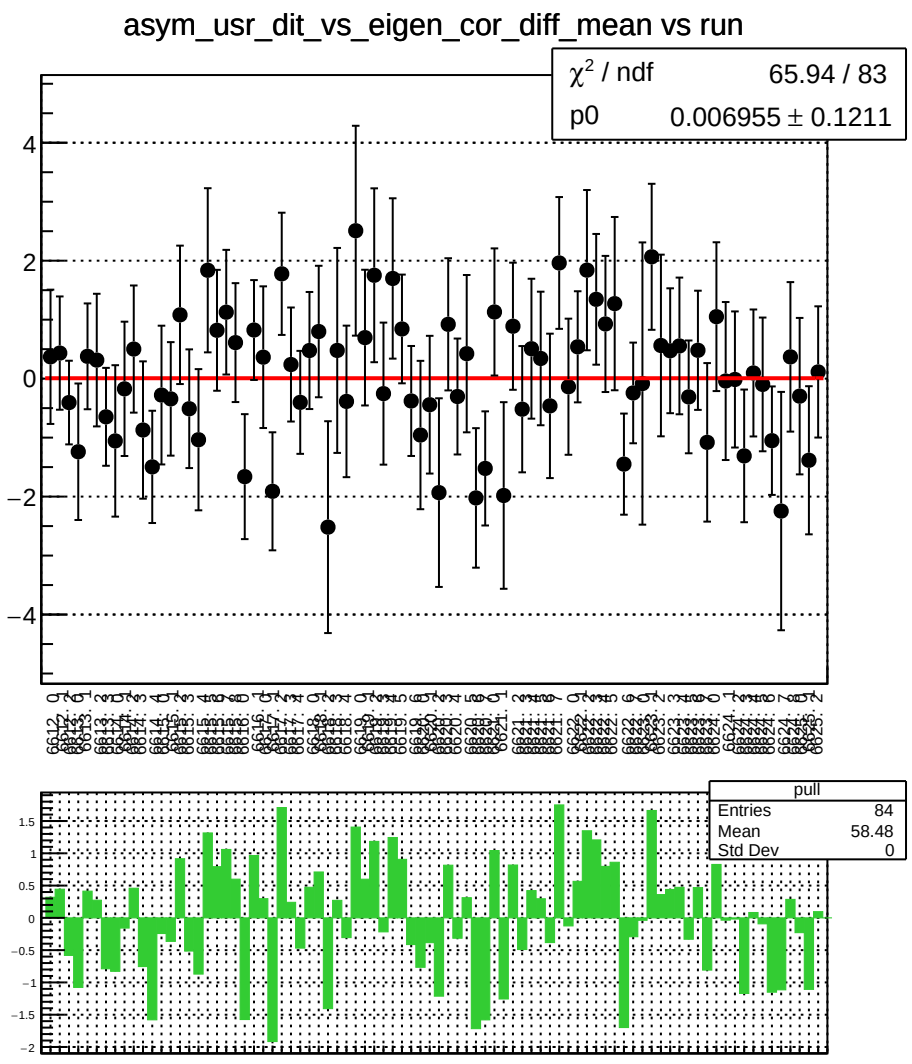

pull1D
Entries 84
Mean −0.05134
Std Dev 0.9711

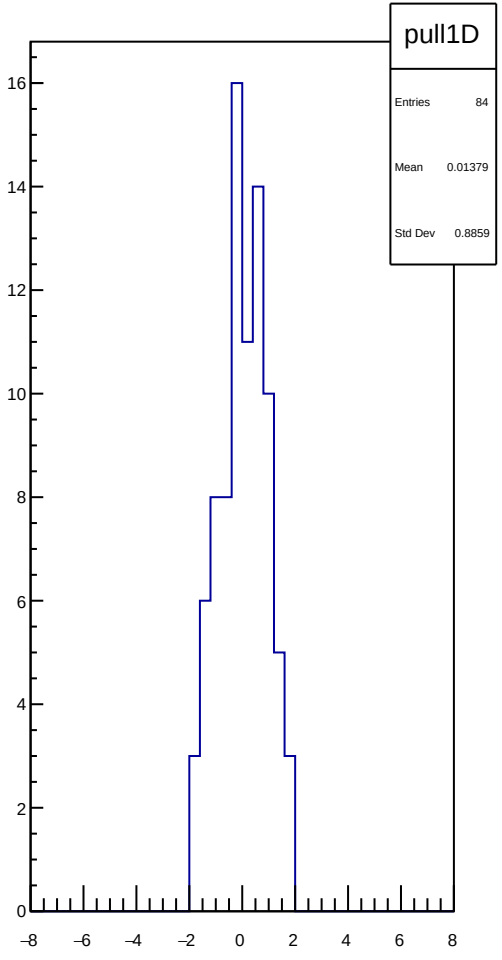

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.499e+05 / 83
p0 2.631e−11 ± 2.528e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

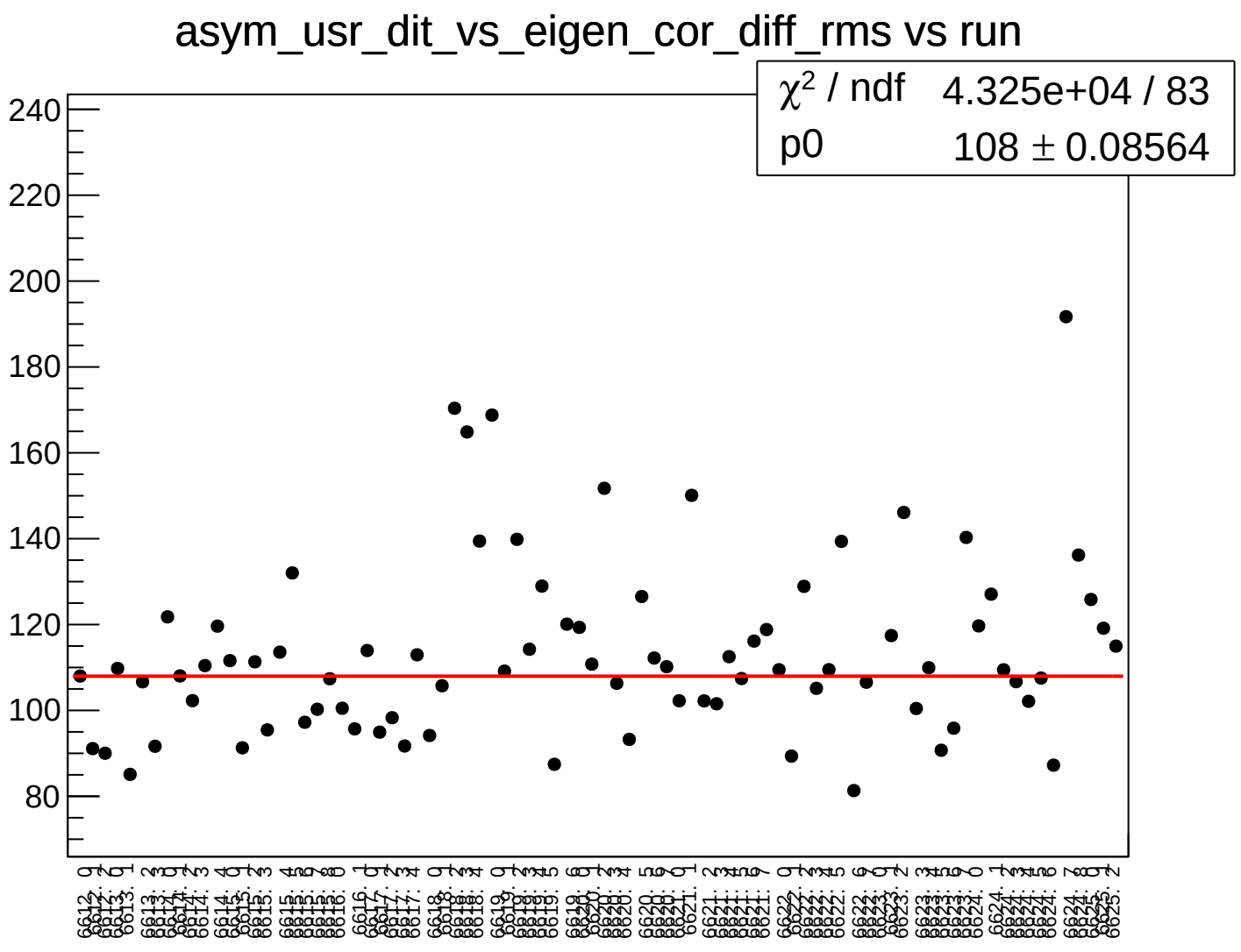

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 65.94 / 83
p0 0.006955 ± 0.1211
pull
Entries 84
Mean 58.48
Std Dev 0

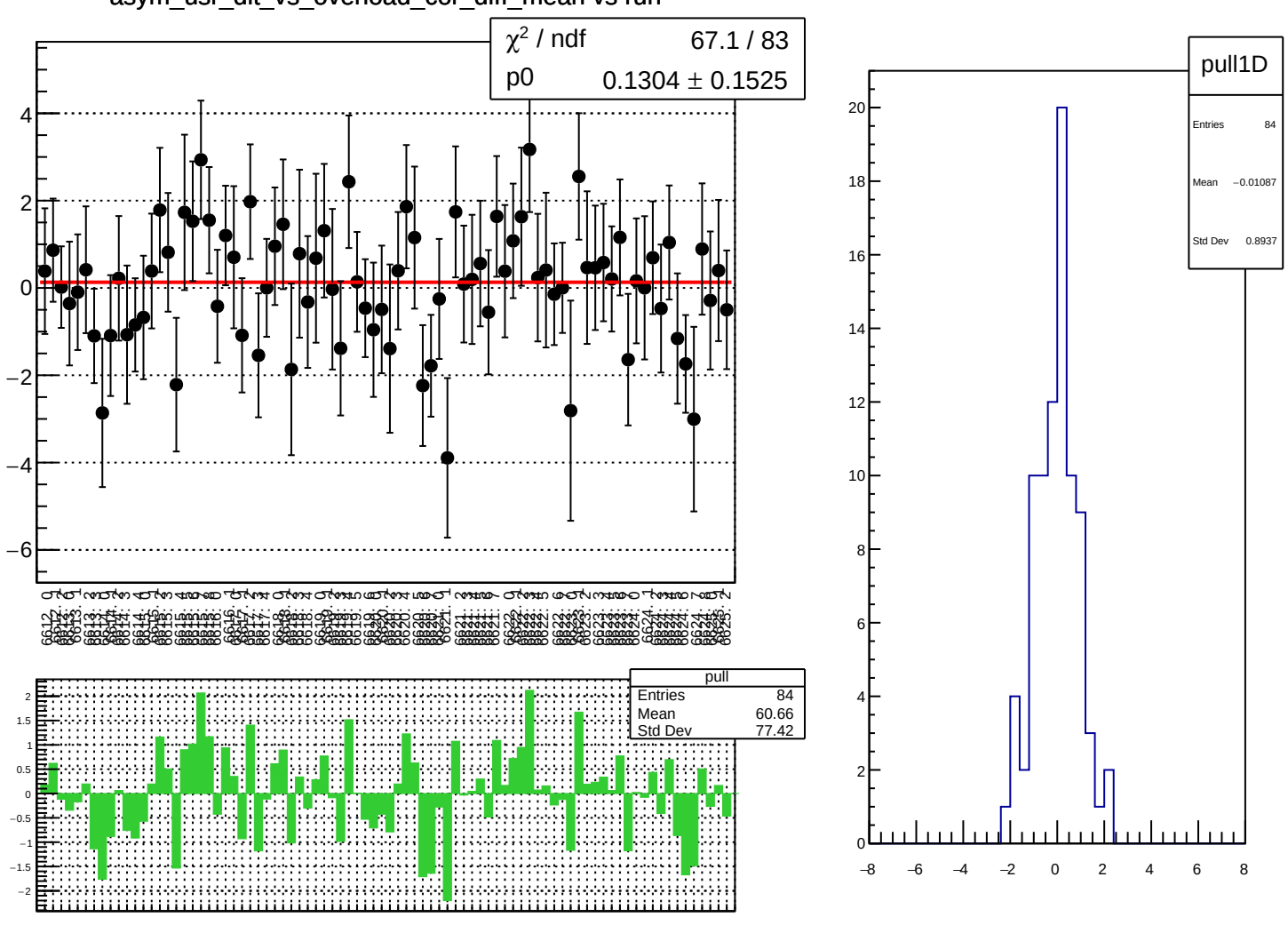

pull1D
Entries 84
Mean 0.01379
Std Dev 0.8859

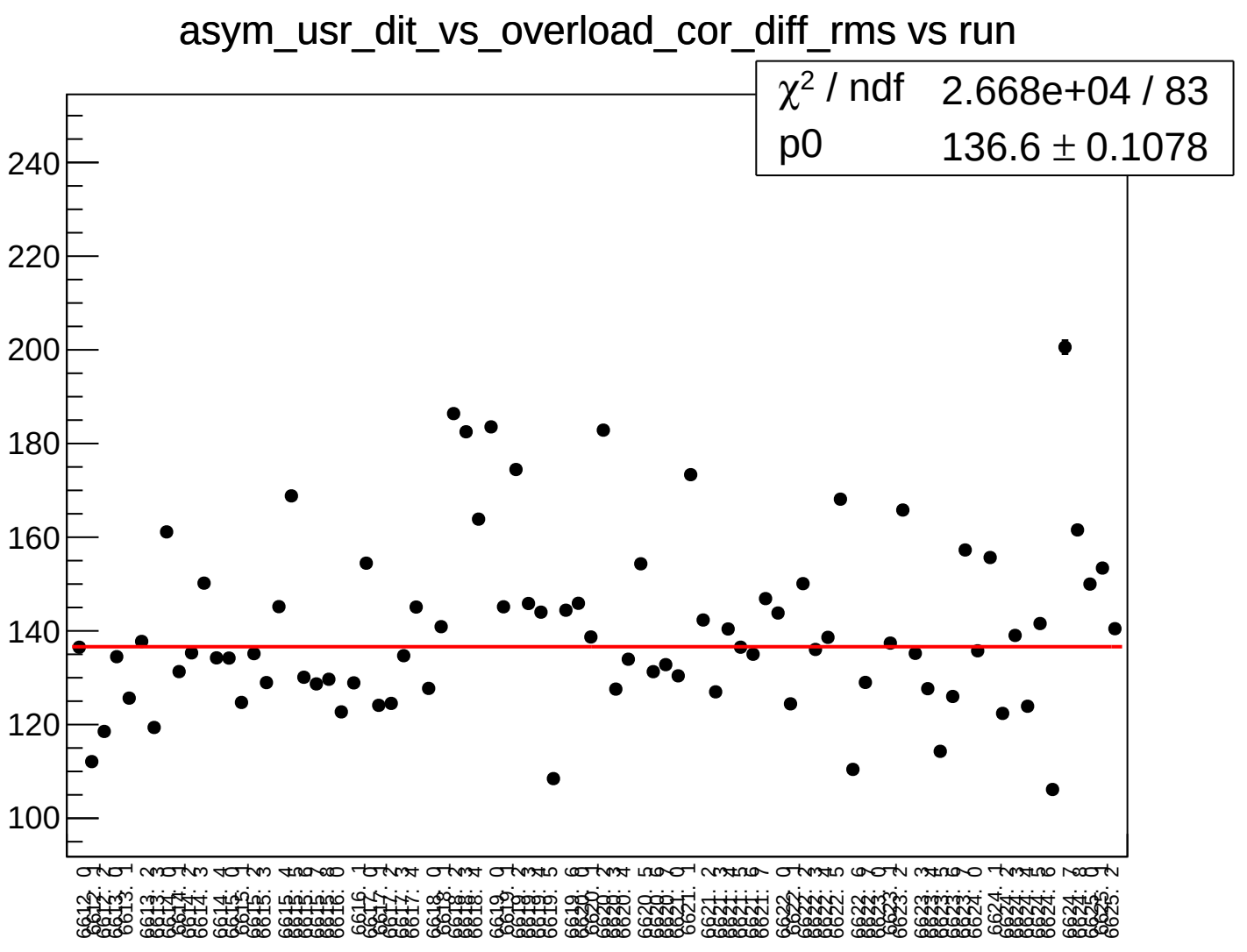

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 4.325e+04 / 83
p0 108 ± 0.08564
240
220
200
180
160
140
120
100
80

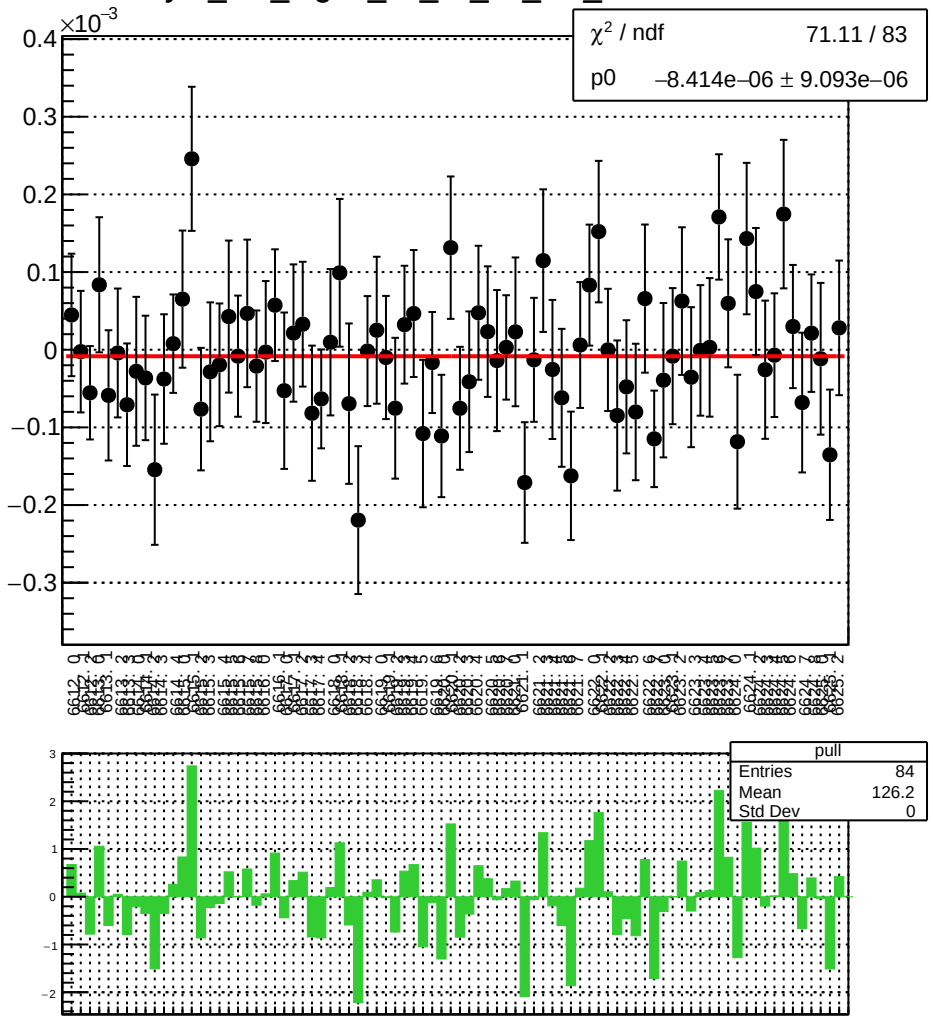

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.94 / 83
p0 0.006955 ± 0.1211
pull
Entries 84
Mean 58.48
Std Dev 0

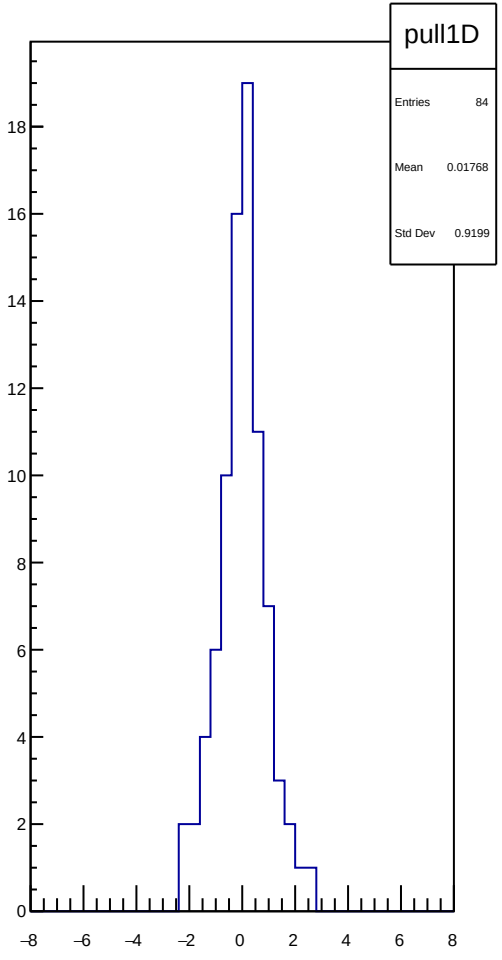

pull1D
Entries 84
Mean 0.01379
Std Dev 0.8859

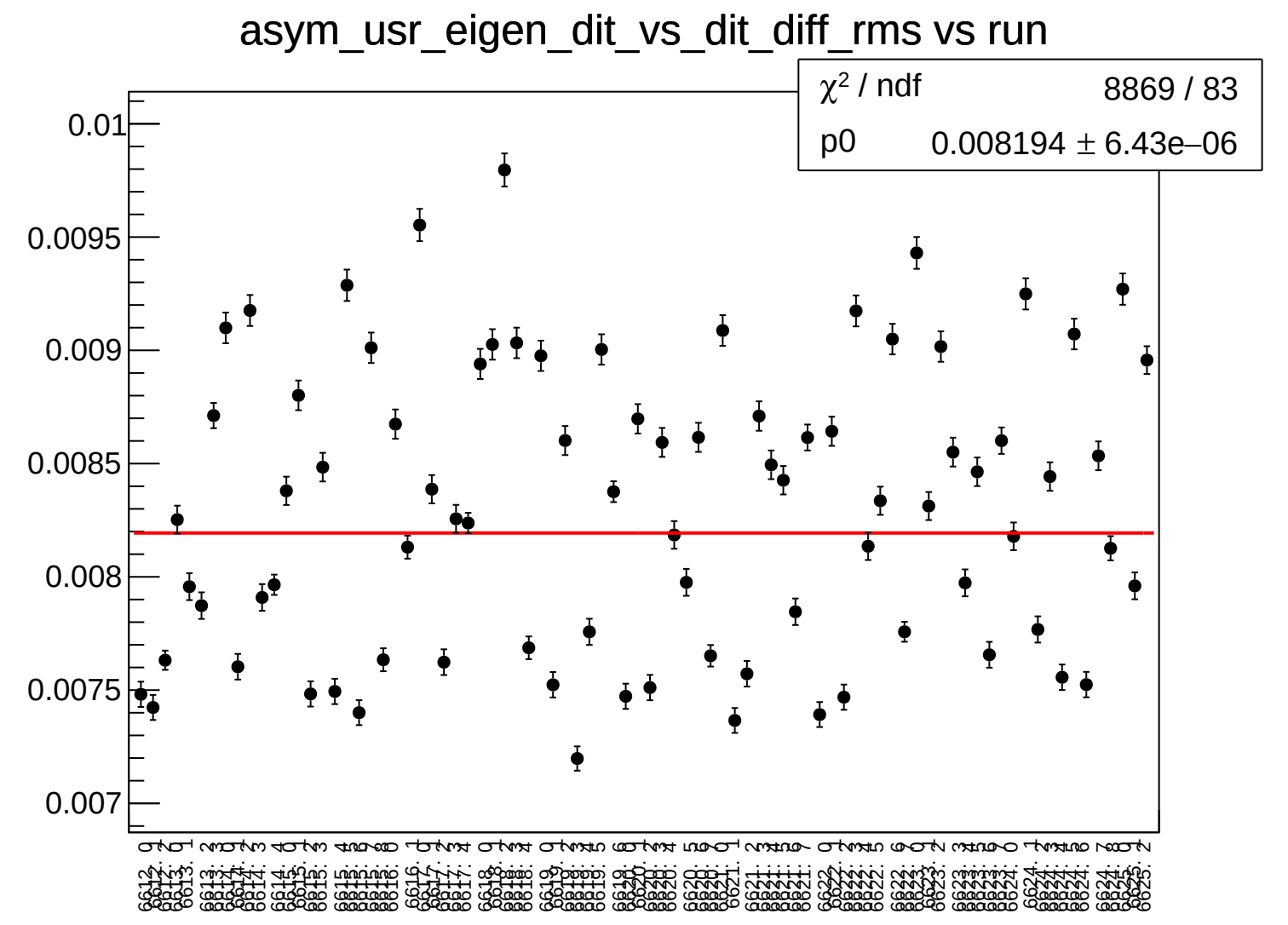

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.325e+04 / 83
p0 108 ± 0.08564
240
220
200
180
160
140
120
100
80


asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 67.1 / 83
p0 0.1304 ± 0.1525
pull
Entries 84
Mean 60.66
Std Dev 77.42
pull1D
Entries 84
Mean −0.01087
Std Dev 0.8937

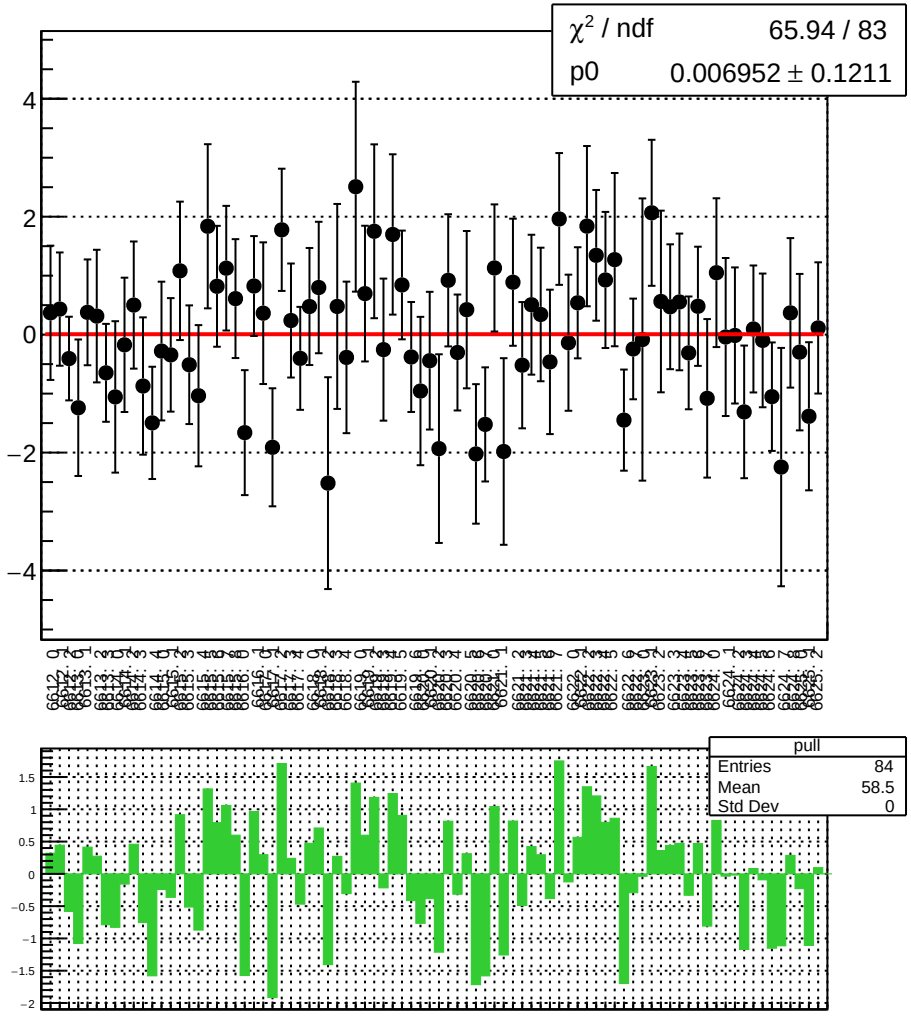

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.668e+04 / 83
p0 136.6 ± 0.1078
240
220
200
180
160
140
120
100

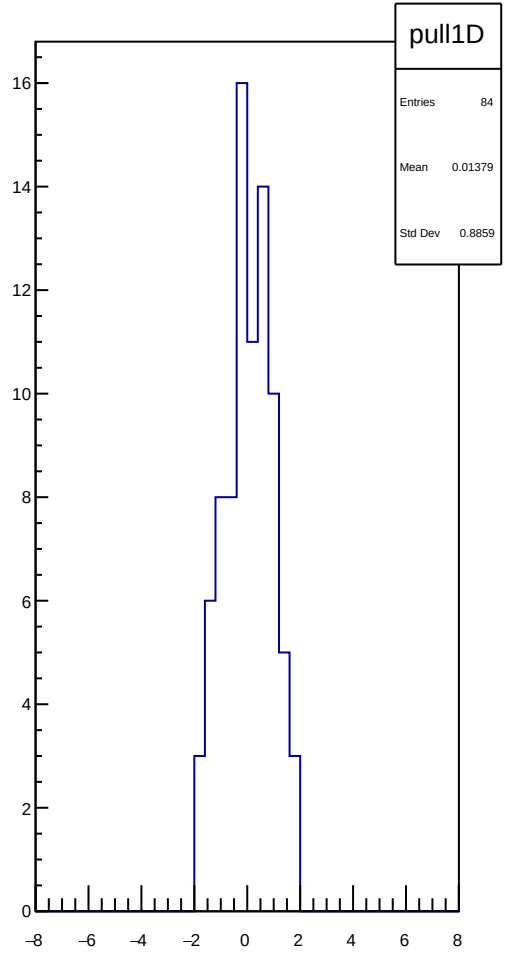

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.11 / 83
p0 −8.414e−06 ± 9.093e−06
pull
Entries 84
Mean 126.2
Std Dev 0

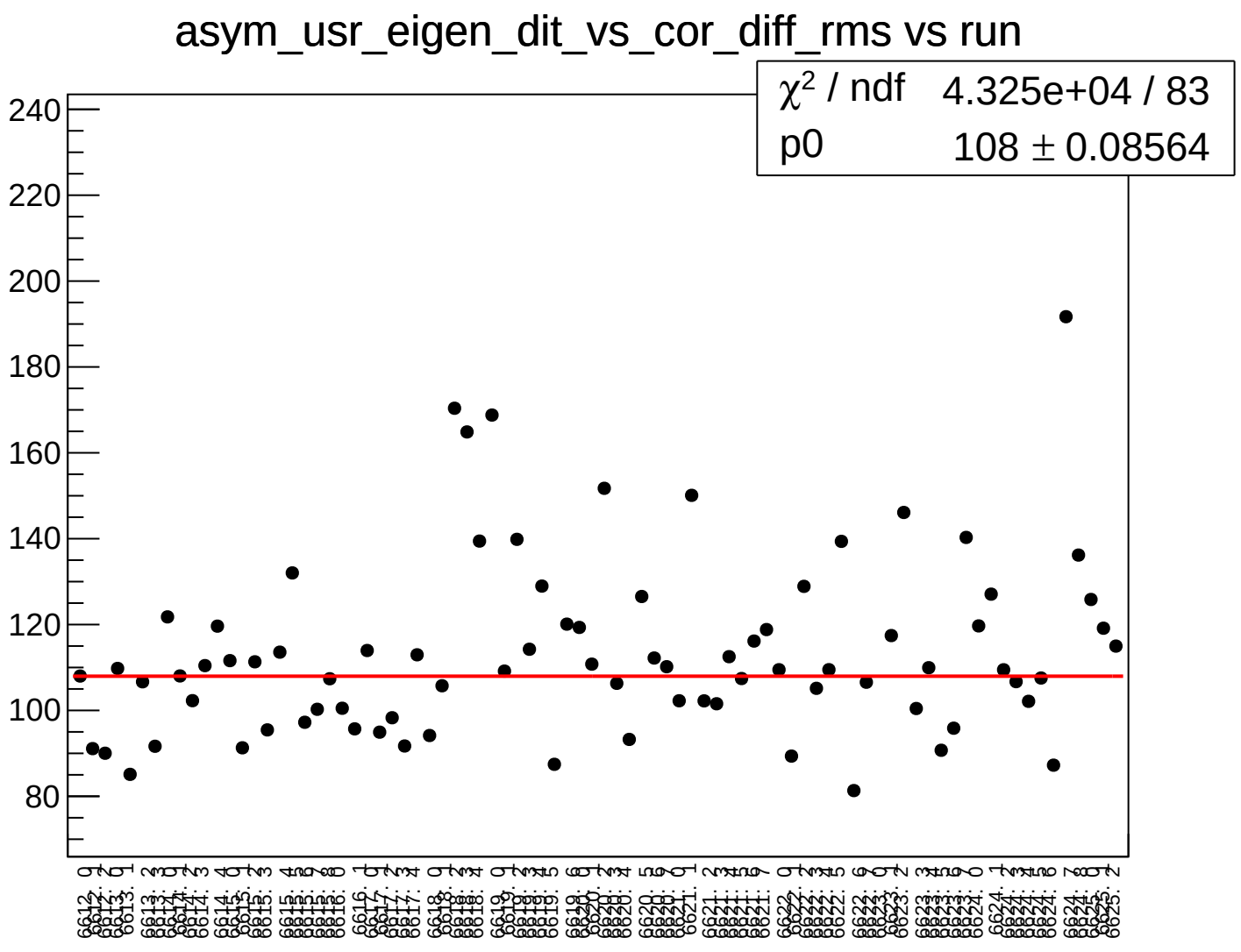

pull1D
Entries 84
Mean 0.01768
Std Dev 0.9199

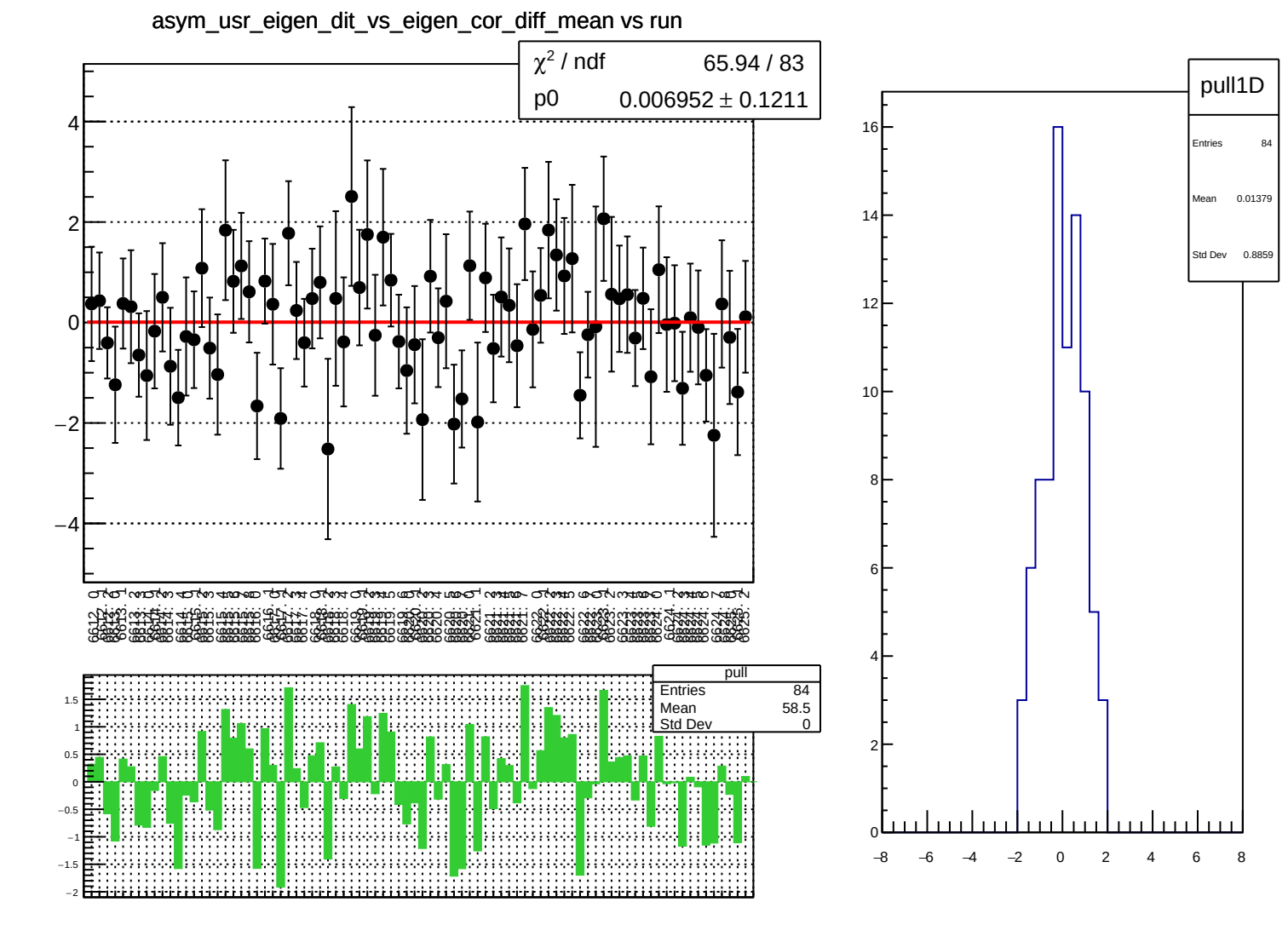

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8869 / 83
p0 0.008194 ± 6.43e–06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

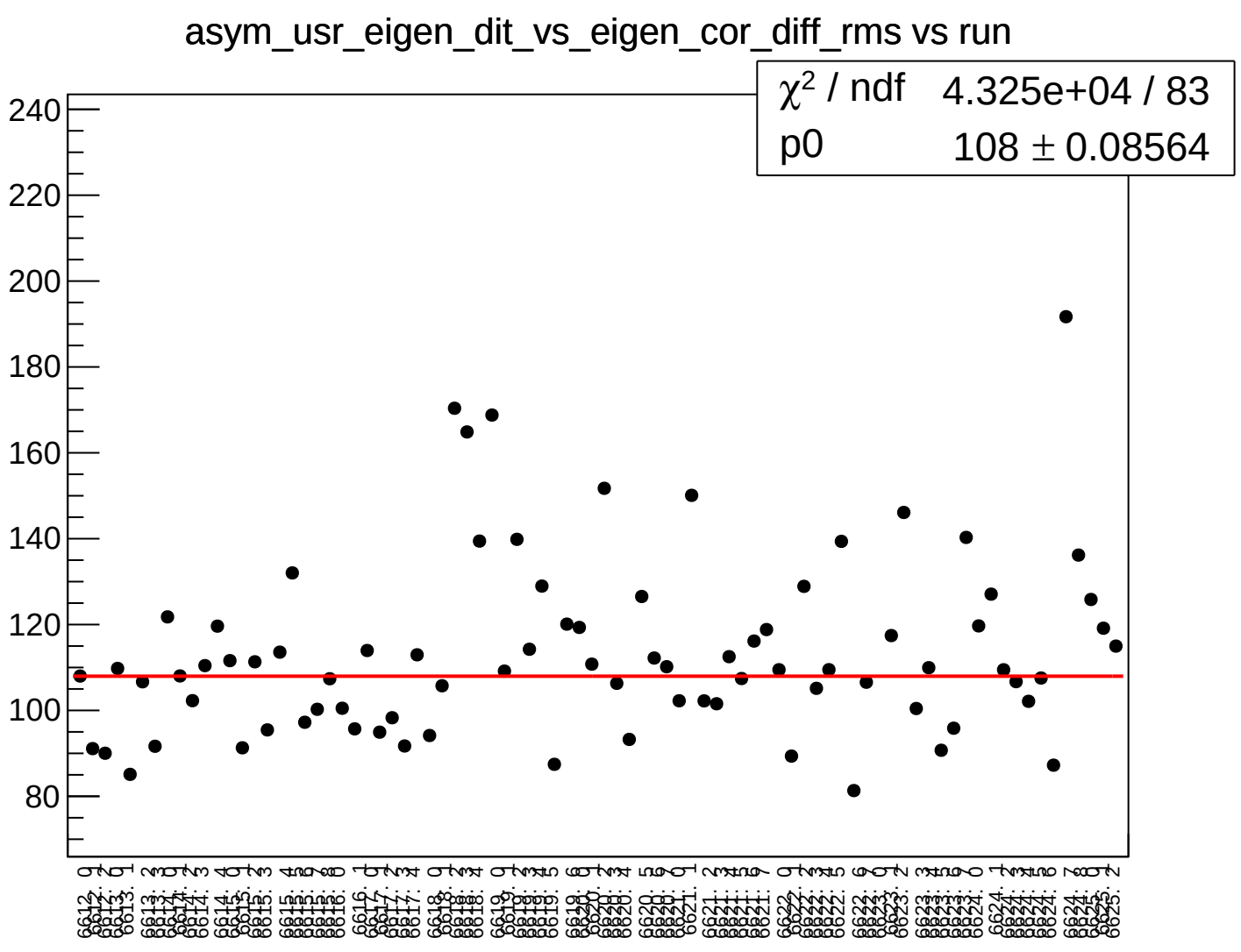
asym_usr_eigen_dit_vs_cor_diff_mean vs run

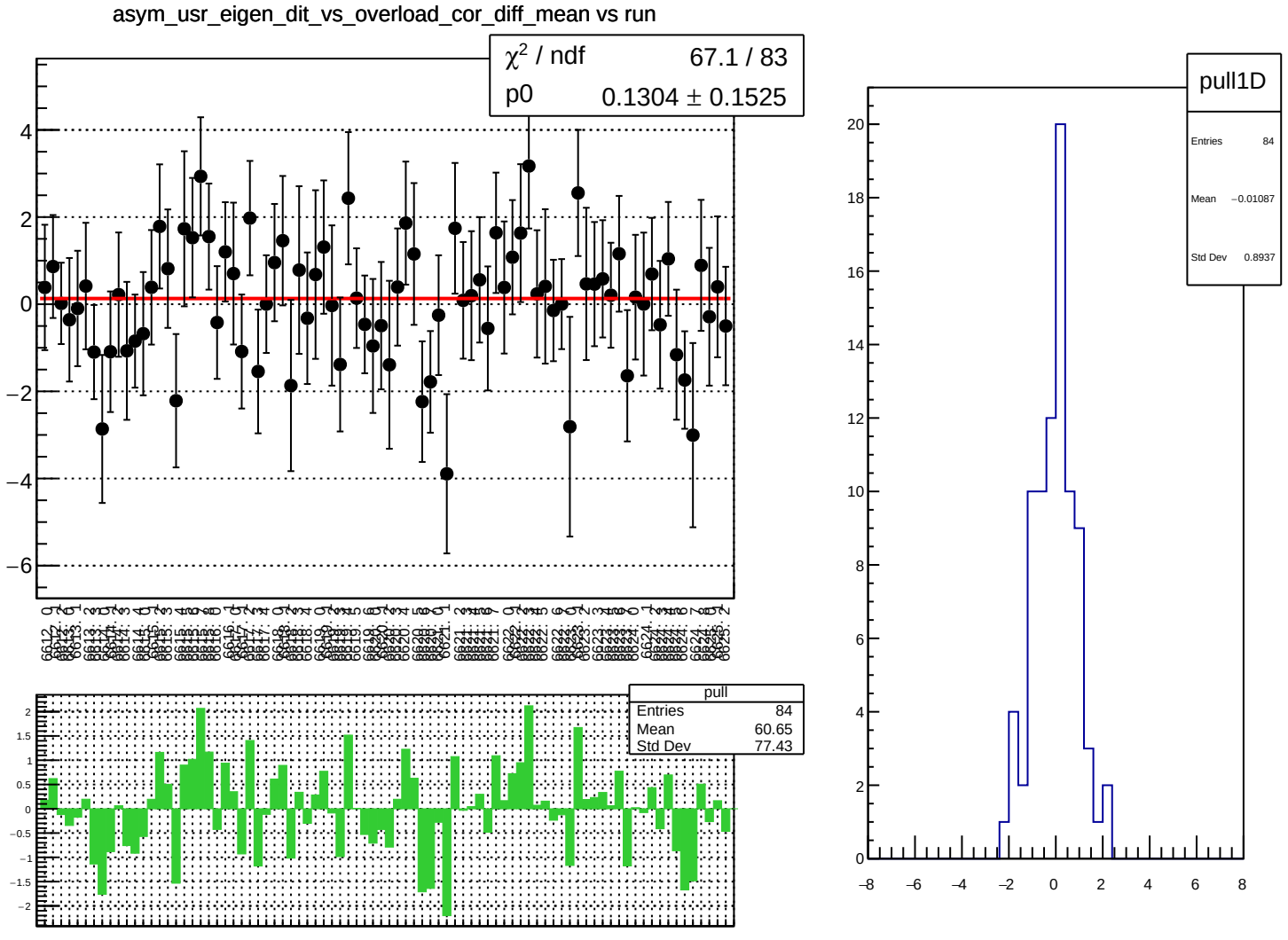


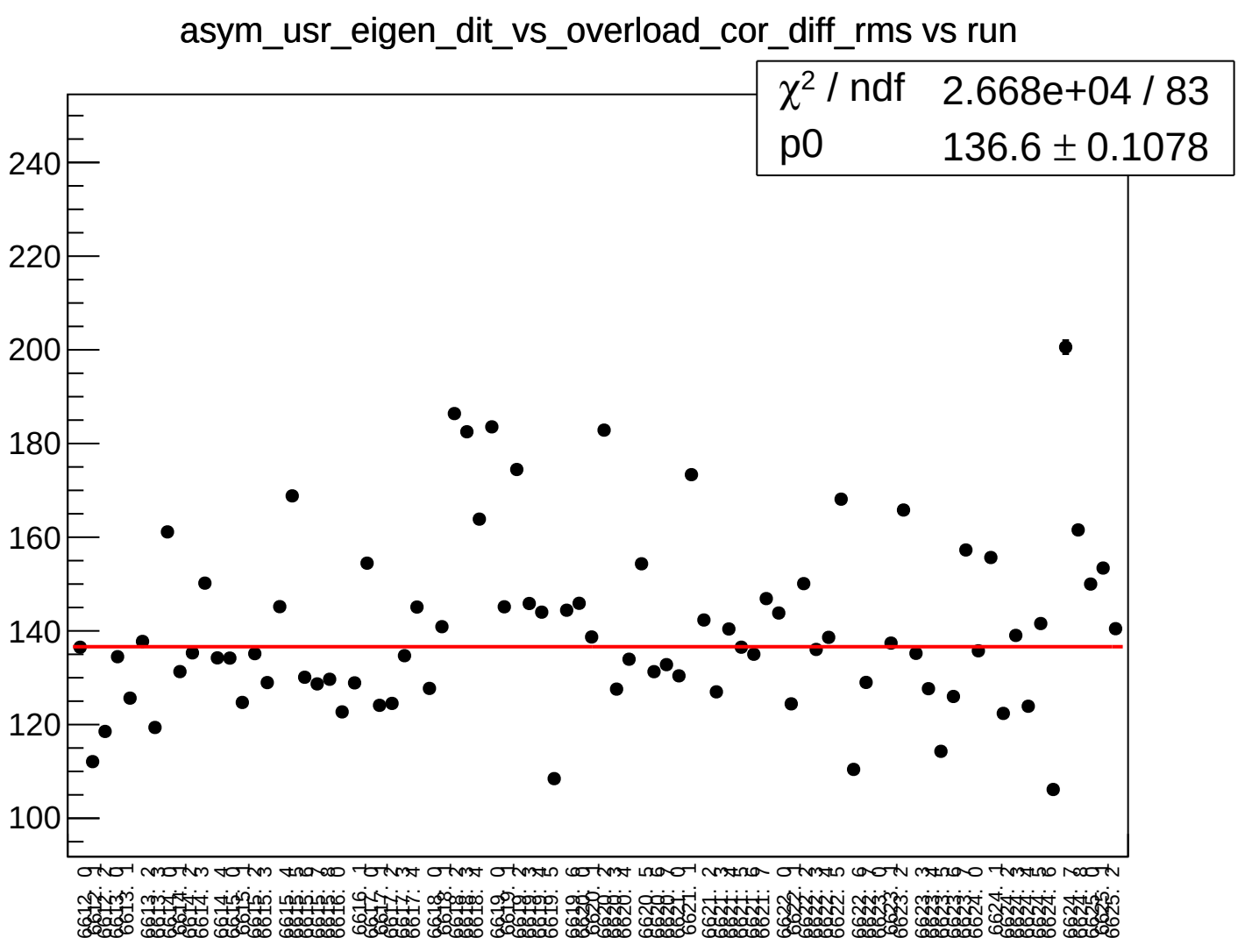


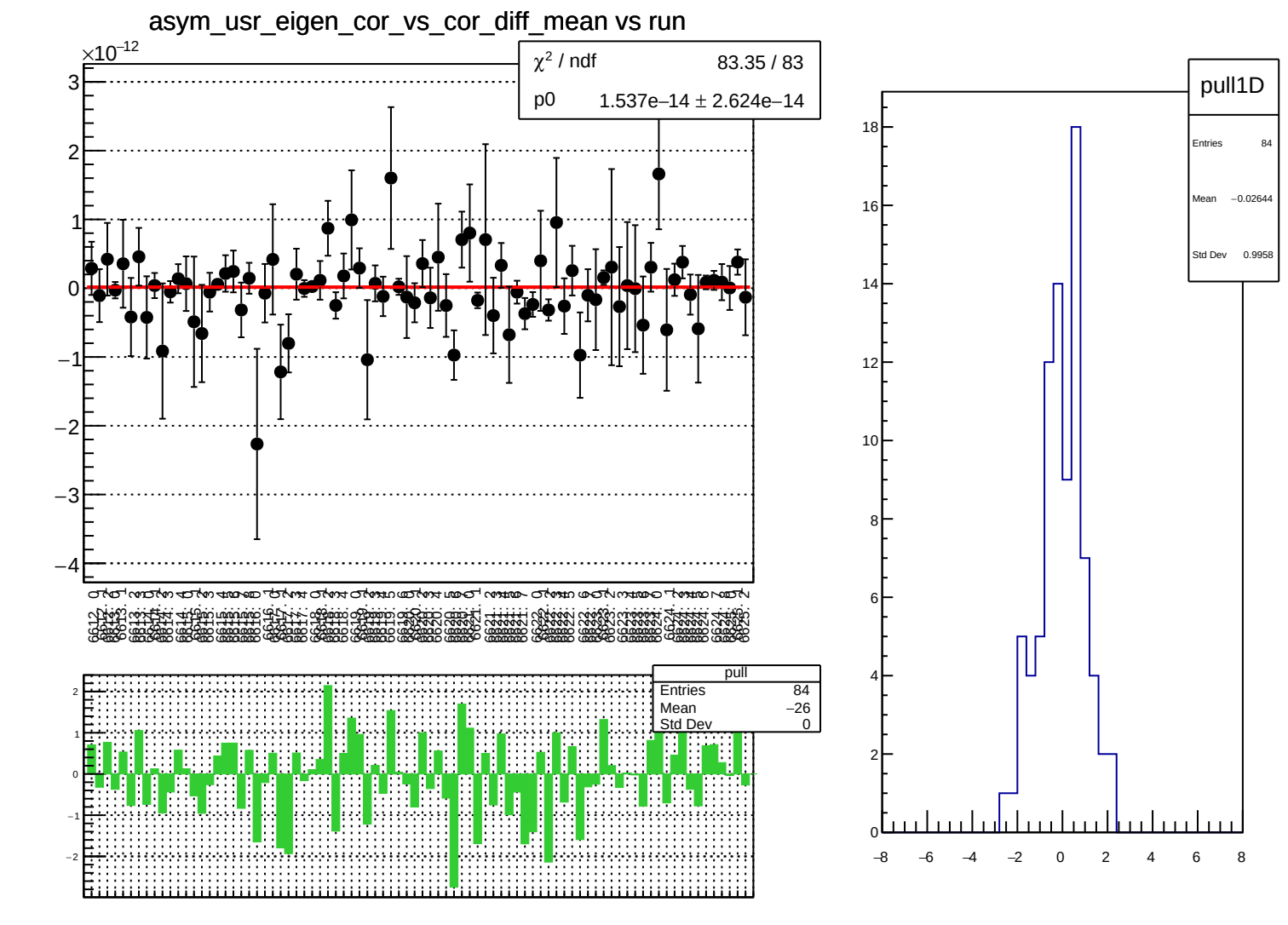

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.325e+04 / 83
p0 108 ± 0.08564
240
220
200
180
160
140
120
100
80

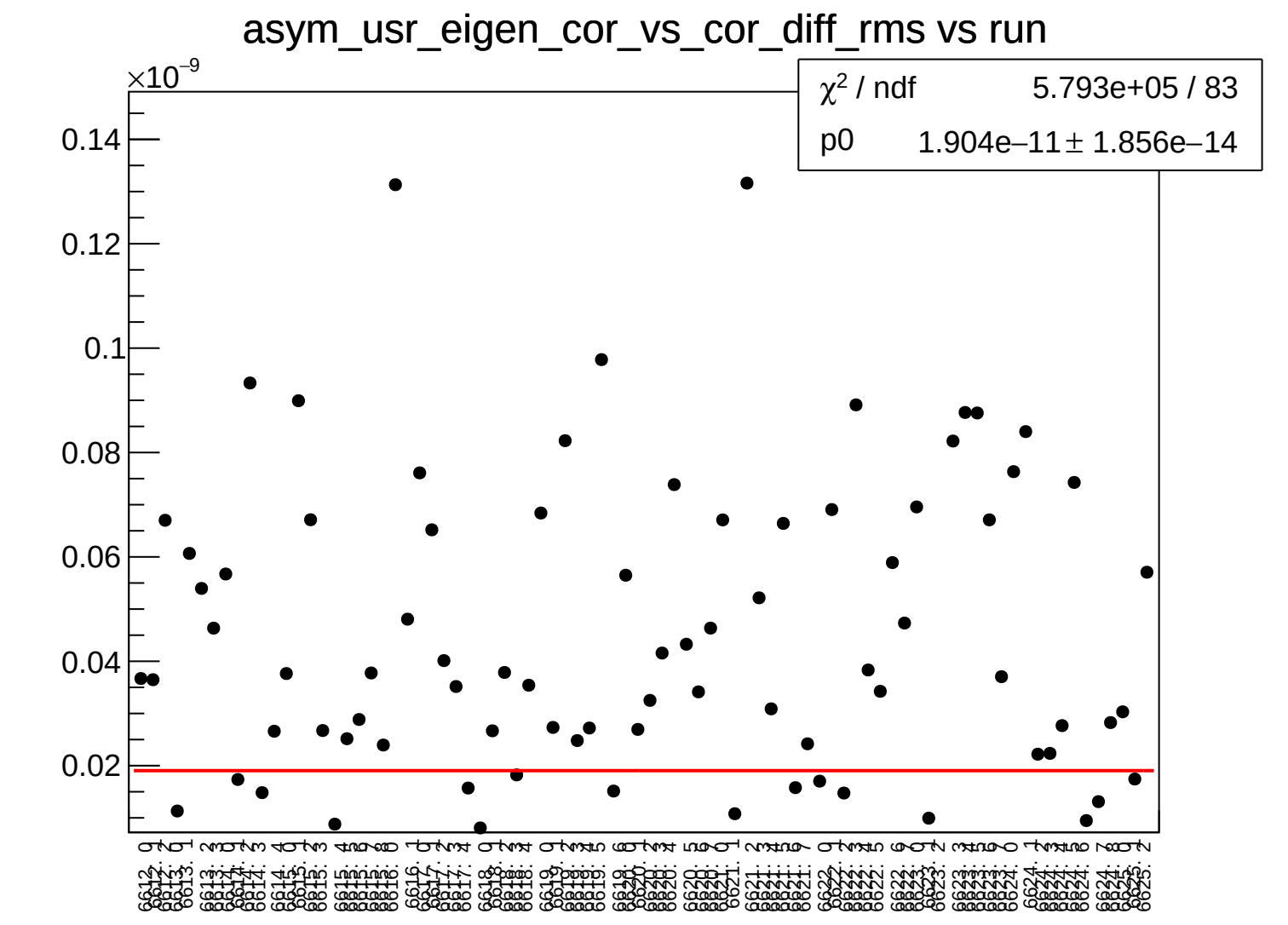

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.94 / 83
p0 0.006952 ± 0.1211
pull
Entries 84
Mean 58.5
Std Dev 0
pull1D
Entries 84
Mean 0.01379
Std Dev 0.8859

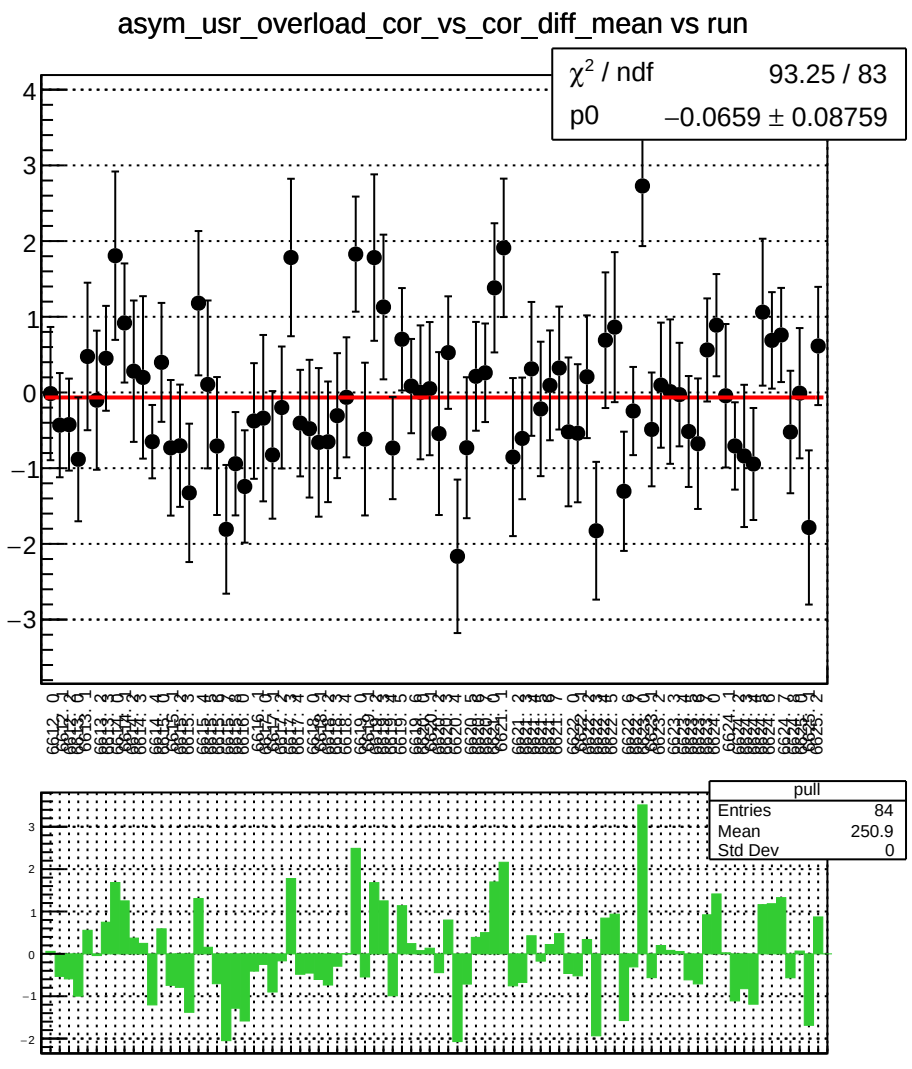

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.325e+04 / 83
p0 108 ± 0.08564
240
220
200
180
160
140
120
100
80

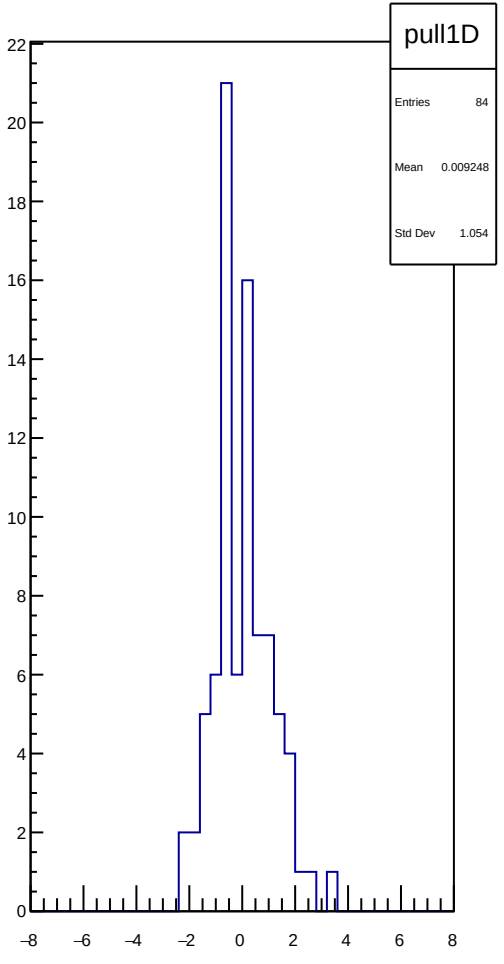

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 67.1 / 83
p0 0.1304 ± 0.1525
pull
Entries 84
Mean 60.65
Std Dev 77.43
pull1D
Entries 84
Mean −0.01087
Std Dev 0.8937

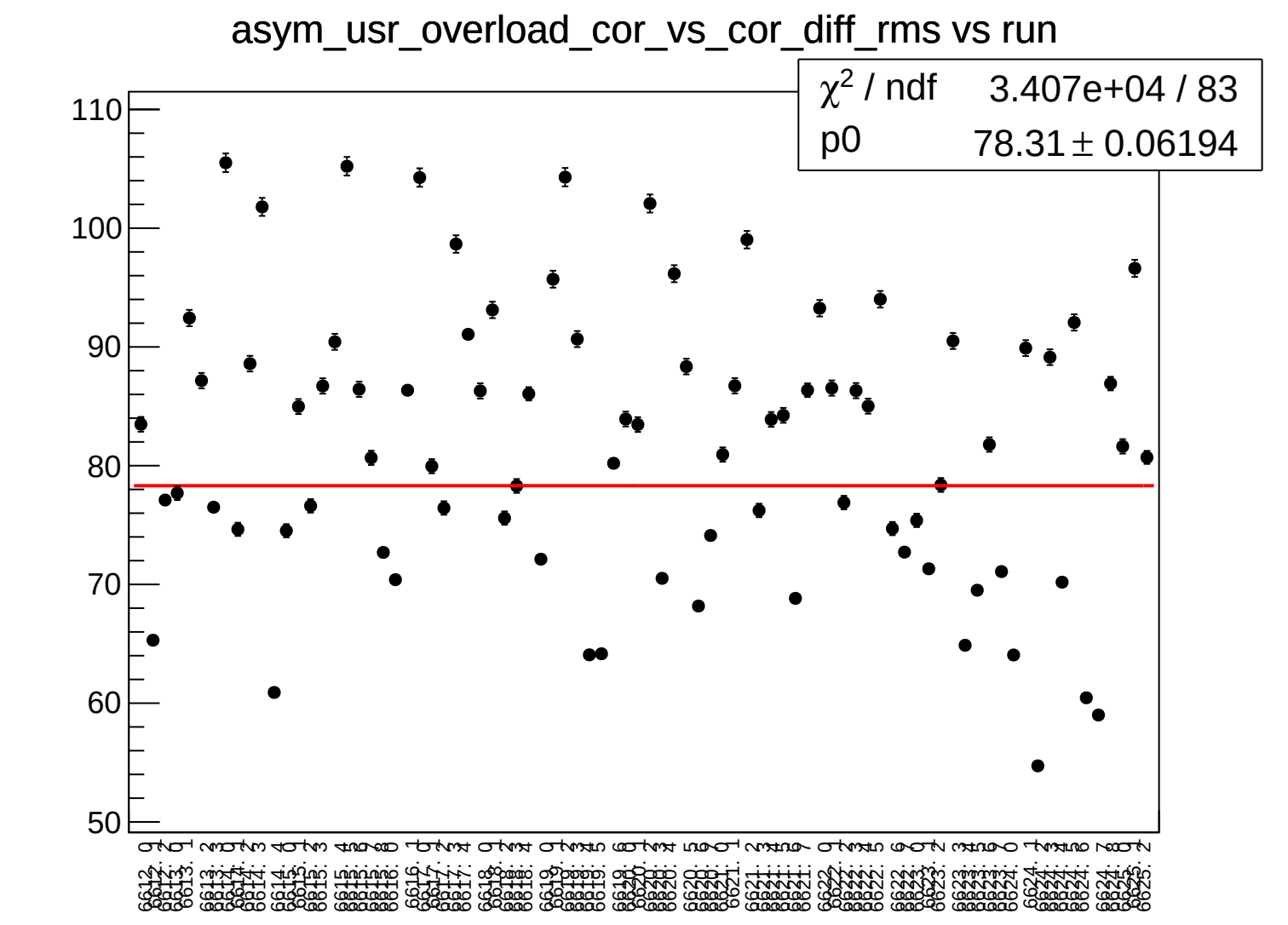

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.668e+04 / 83
p0 136.6 ± 0.1078
240
220
200
180
160
140
120
100

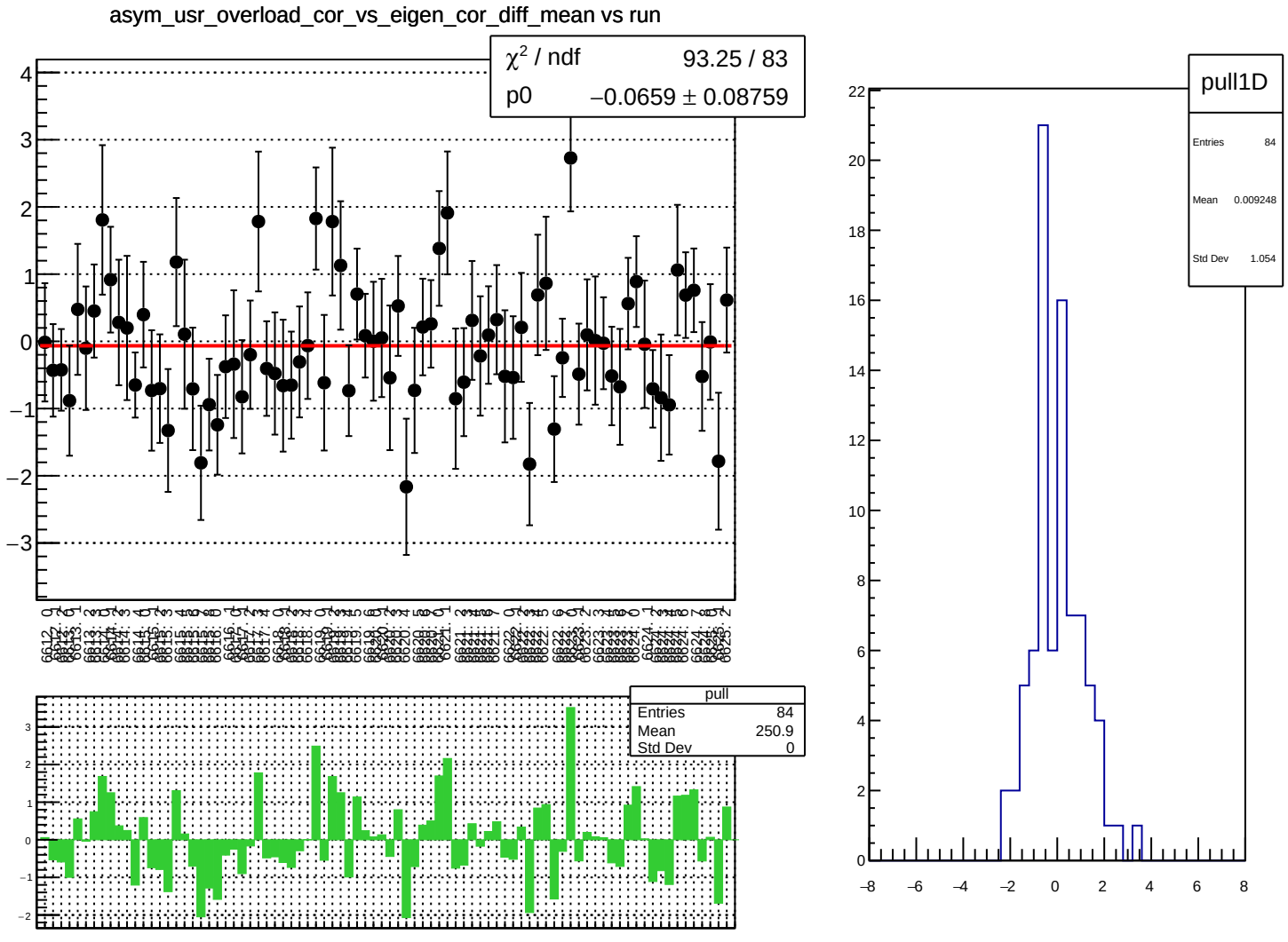

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 83.35 / 83
p0 1.537e−14 ± 2.624e−14
pull
Entries 84
Mean −26
Std Dev 0
pull1D
Entries 84
Mean −0.02644
Std Dev 0.9958

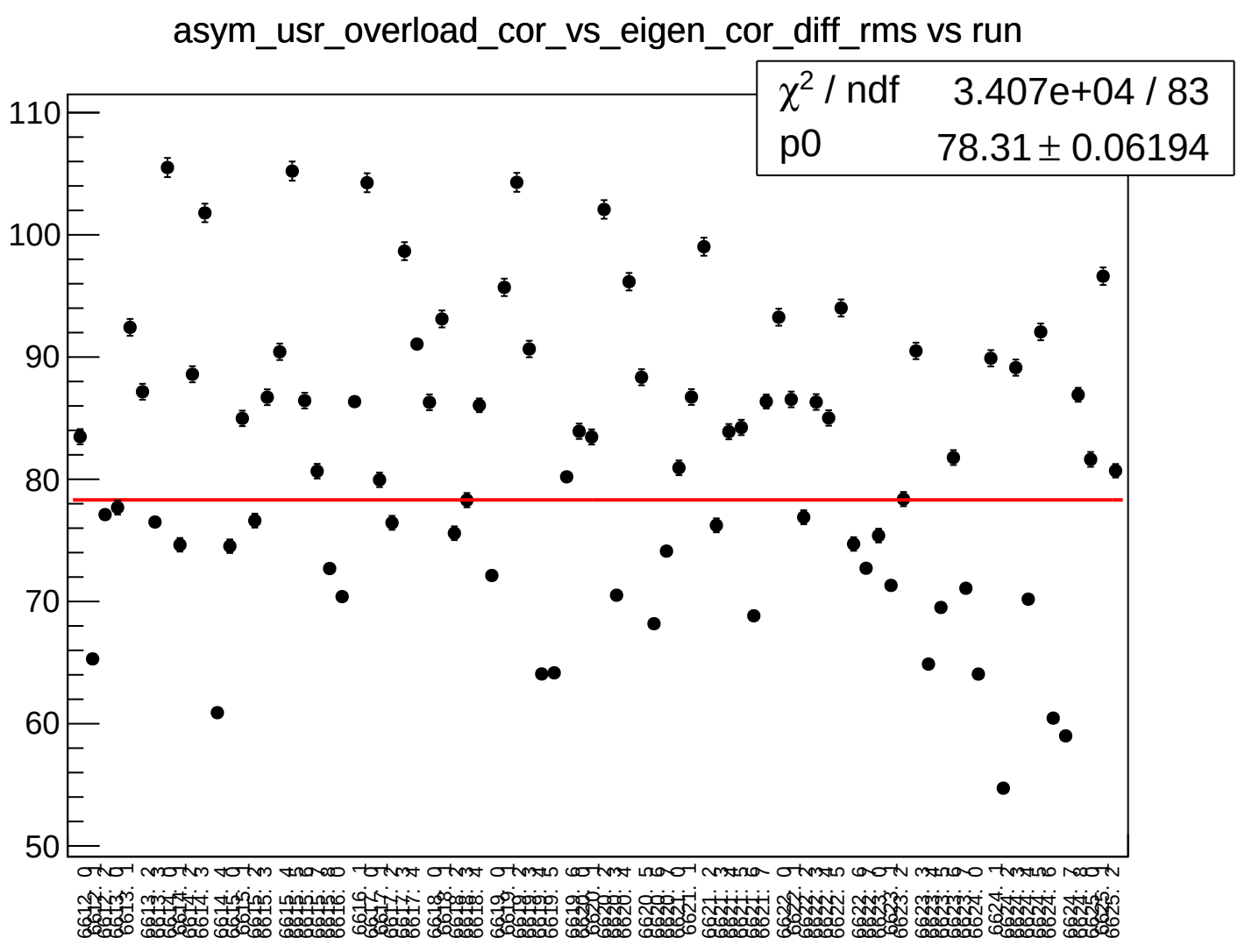

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.793e+05 / 83
p0 1.904e−11 ± 1.856e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

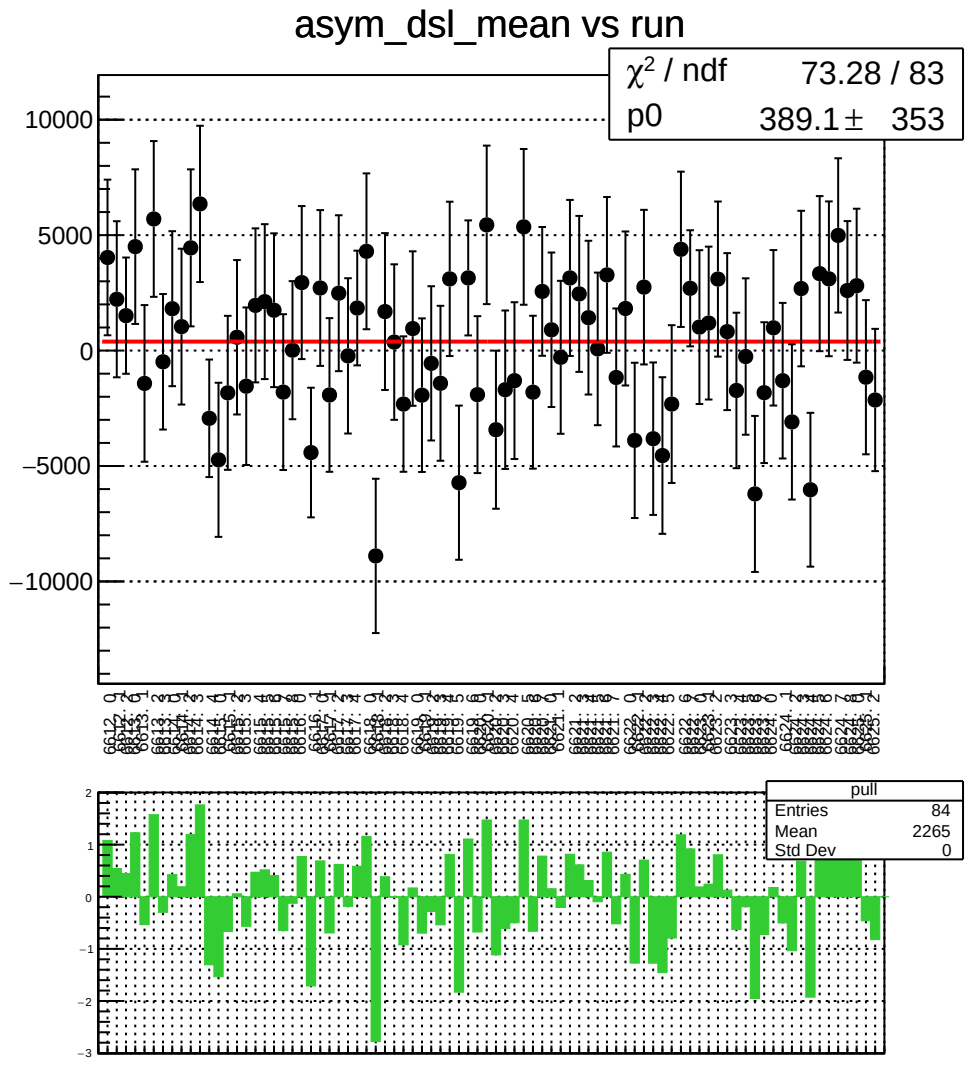

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 93.25 / 83
p0 −0.0659 ± 0.08759
pull
Entries 84
Mean 250.9
Std Dev 0

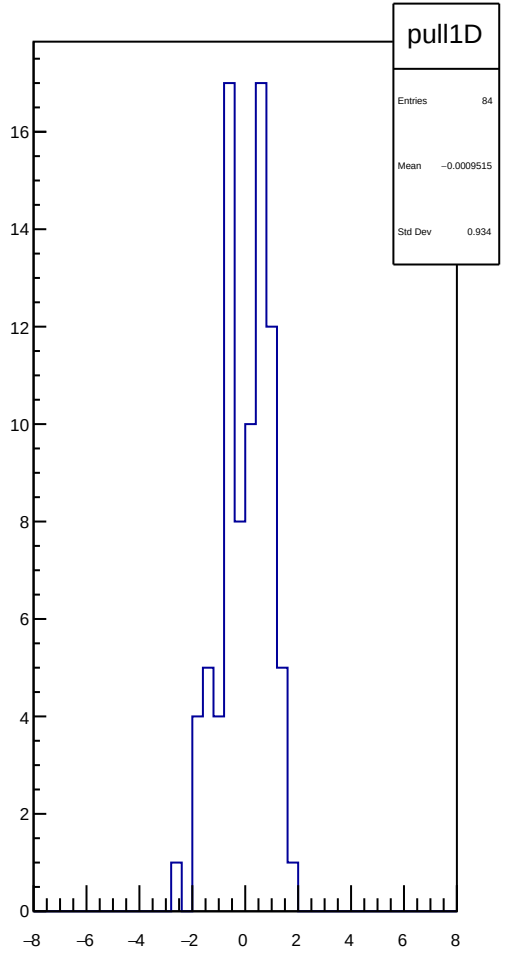

pull1D
Entries 84
Mean 0.009248
Std Dev 1.054

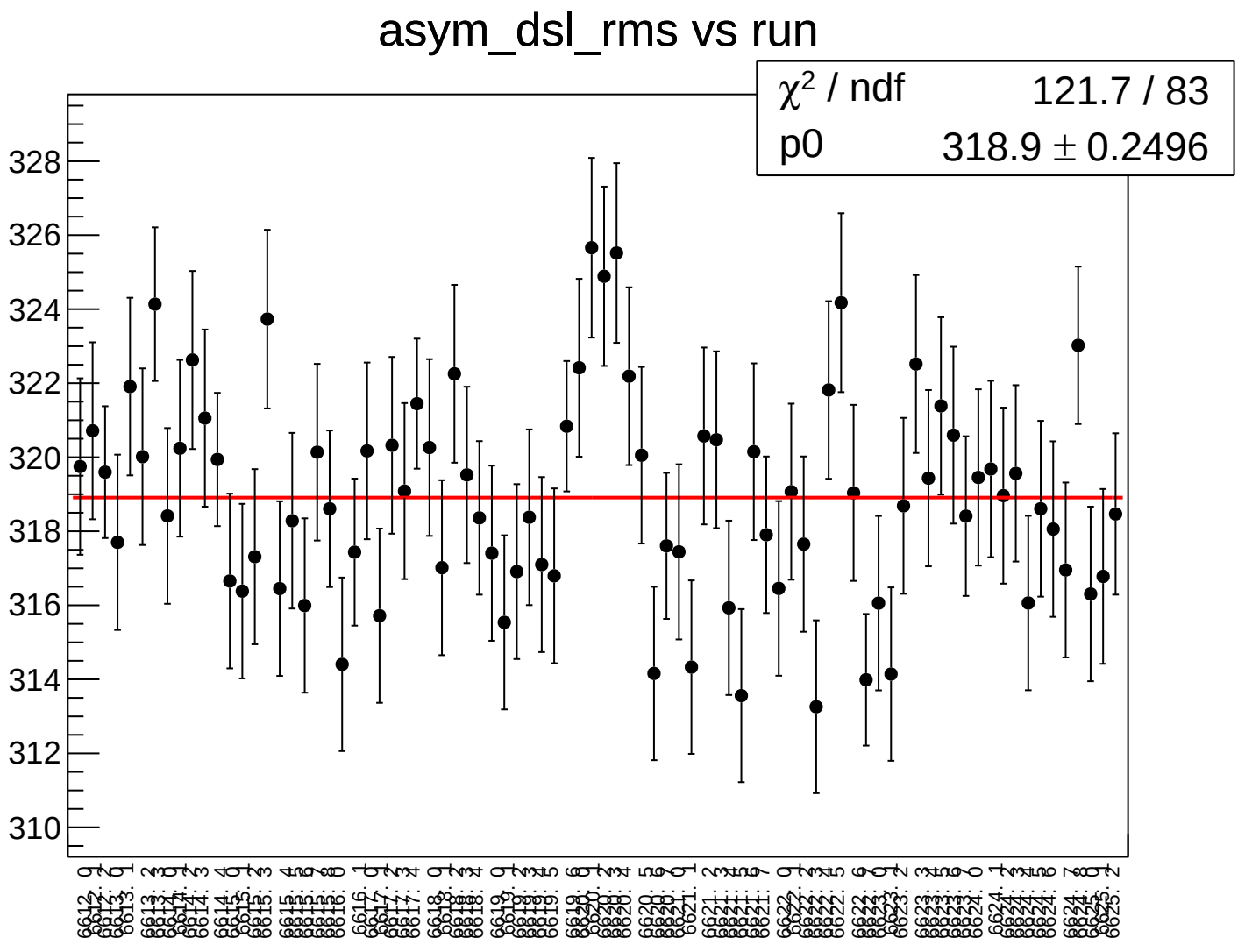

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 3.407e+04 / 83
p0 78.31 ± 0.06194
110
100
90
80
70
60
50

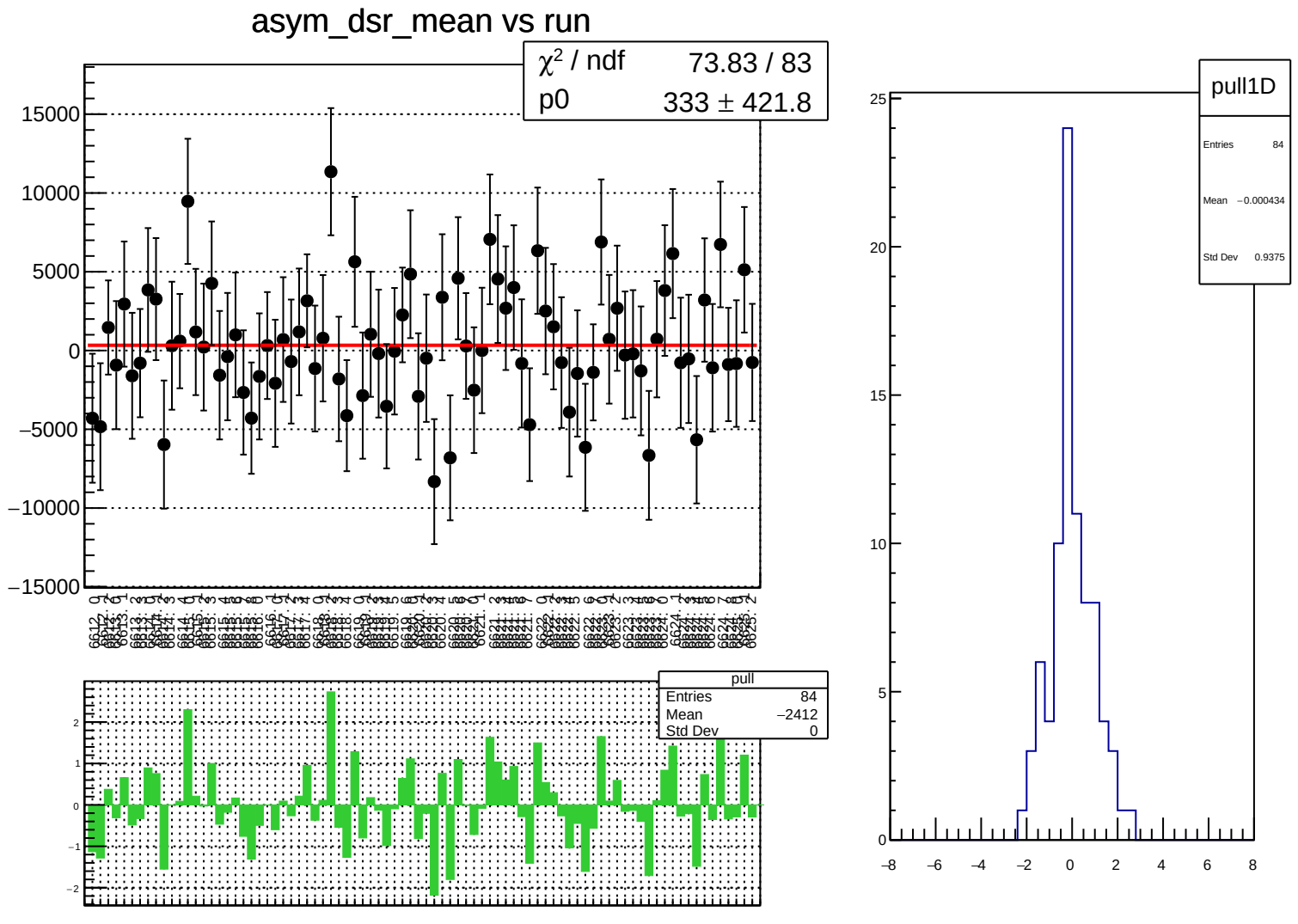

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.25 / 83
p0 −0.0659 ± 0.08759
pull
Entries 84
Mean 250.9
Std Dev 0
pull1D
Entries 84
Mean 0.009248
Std Dev 1.054

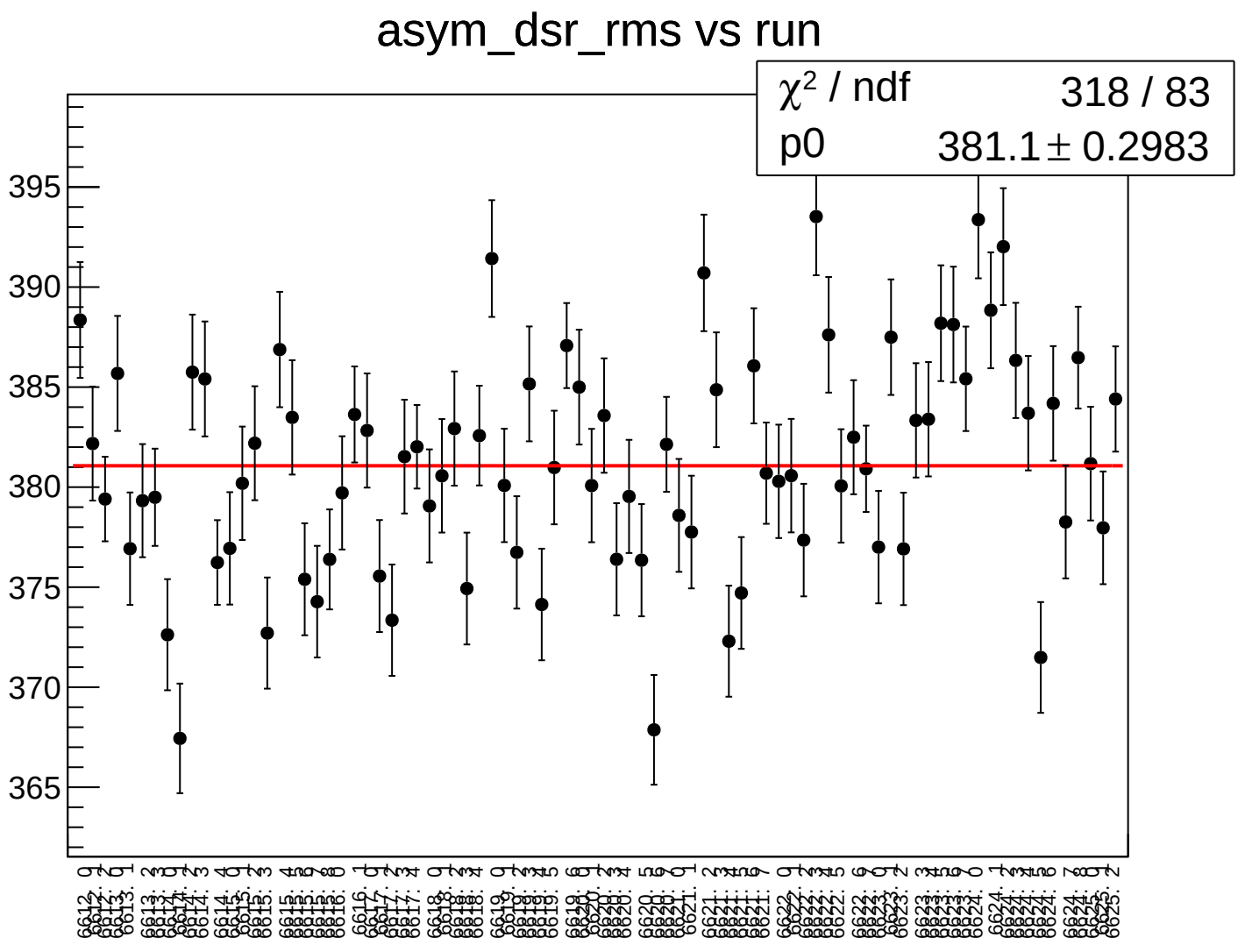

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.407e+04 / 83
p0 78.31 ± 0.06194
110
100
90
80
70
60
50

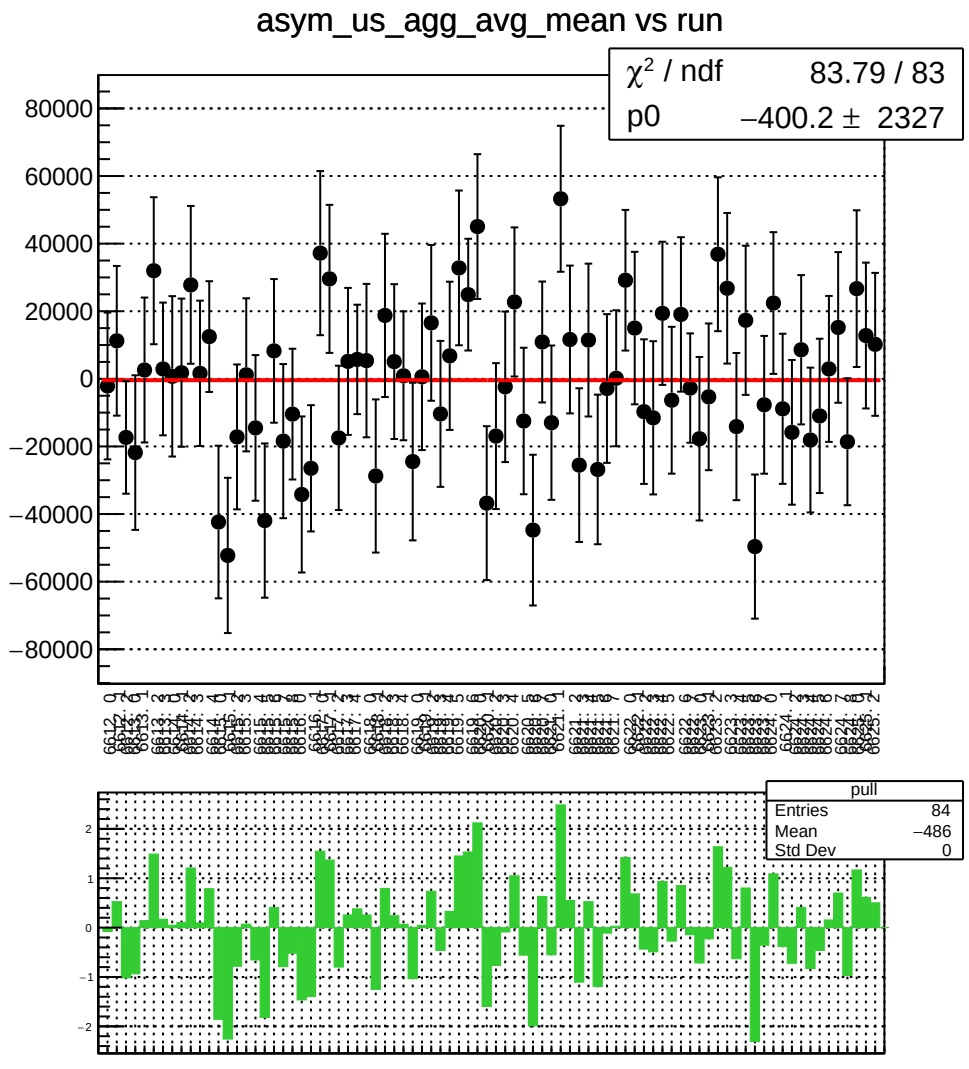

asym_dsl_mean vs run
χ² / ndf 73.28 / 83
p0 389.1 ± 353
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 2265
Std Dev 0
2
1
0
−1
−2
−3

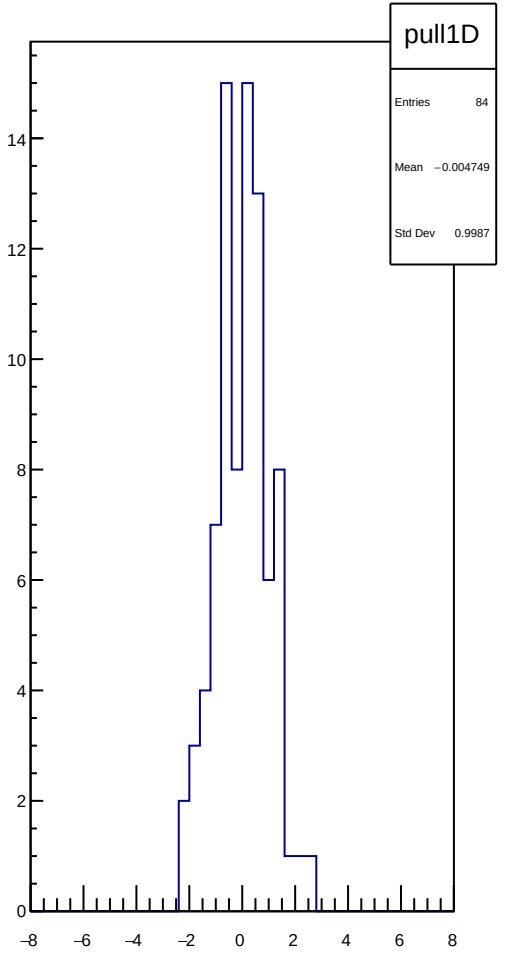

pull1D
Entries 84
Mean −0.0009515
Std Dev 0.934
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

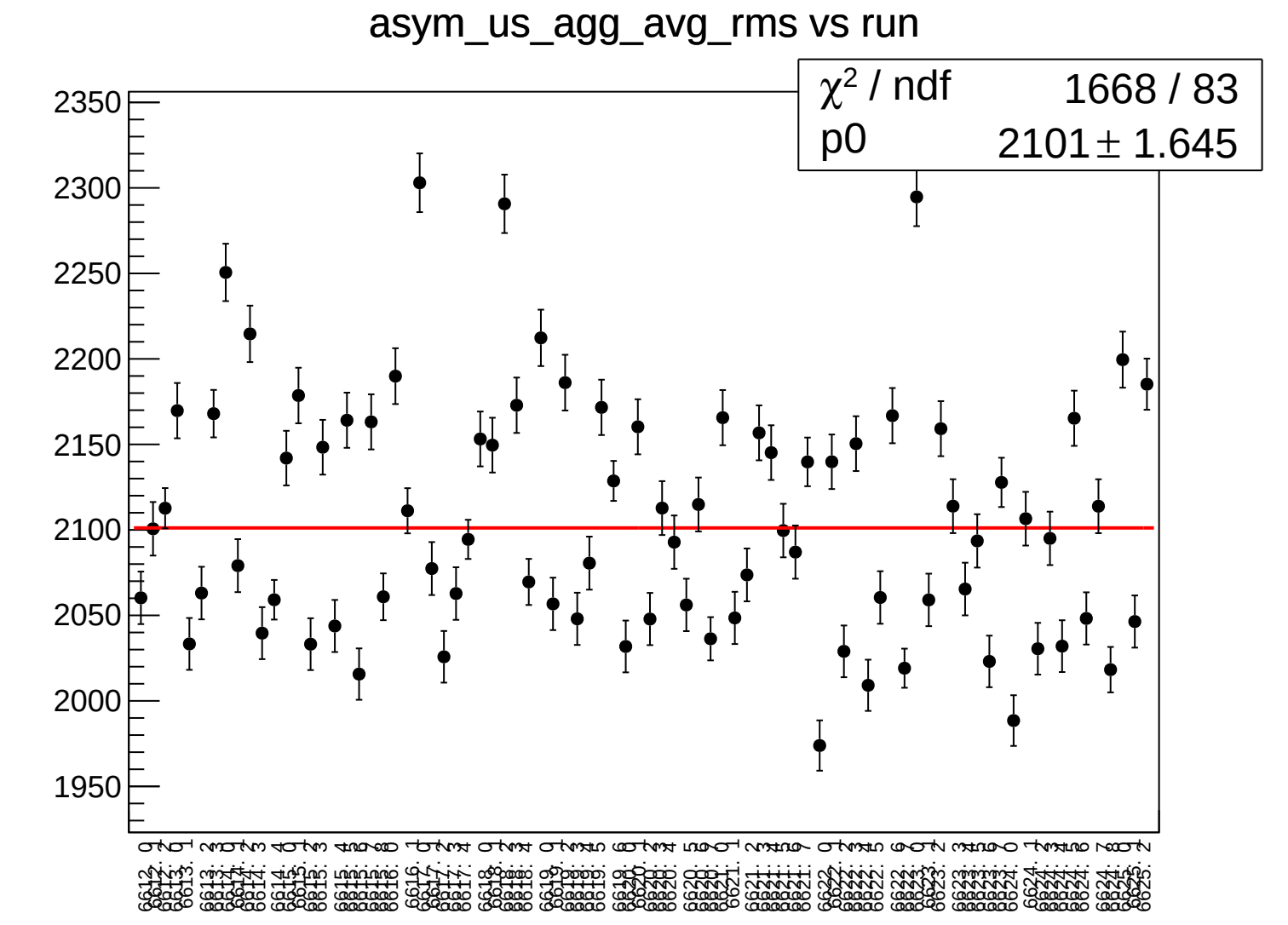

asym_dsl_rms vs run
χ² / ndf 121.7 / 83
p0 318.9 ± 0.2496
328
326
324
322
320
318
316
314
312
310

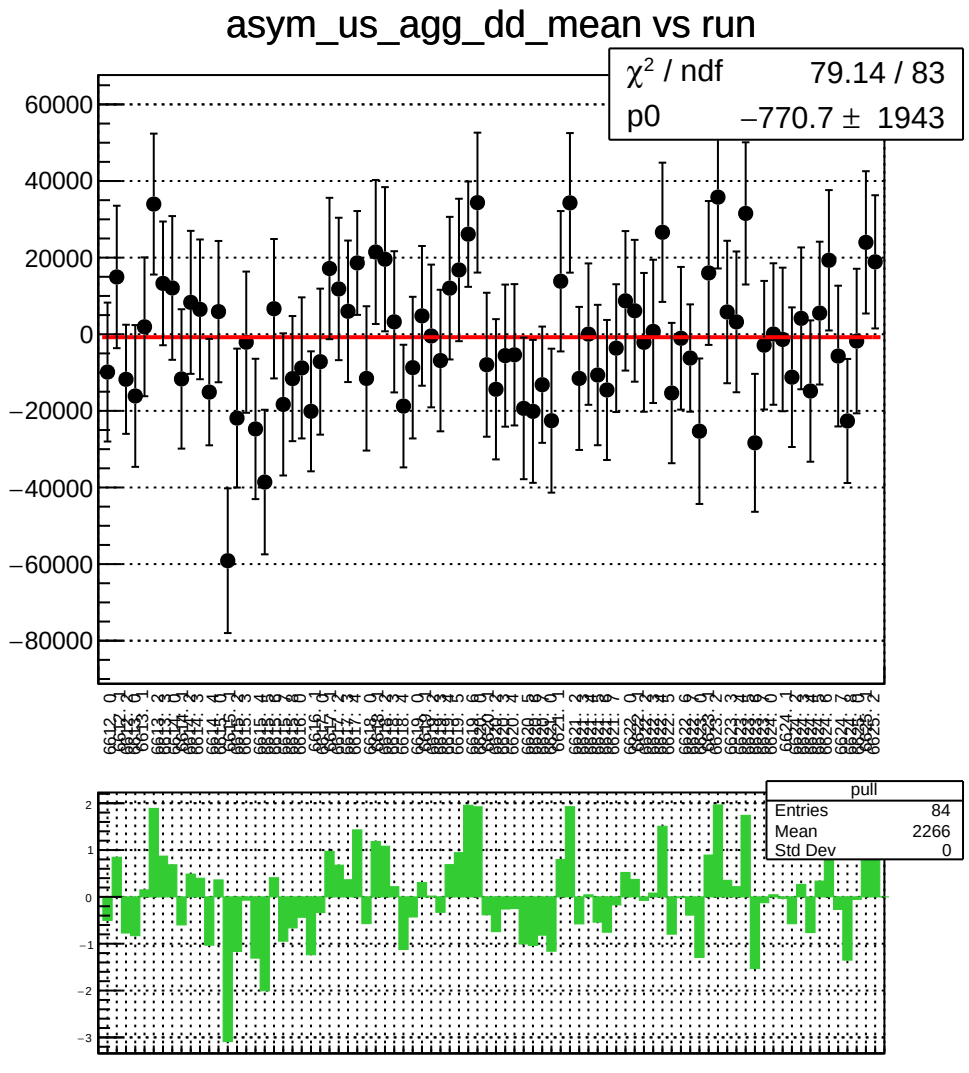

asym_dsr_mean vs run
χ² / ndf 73.83 / 83
p0 333 ± 421.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −2412
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.000434
Std Dev 0.9375
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

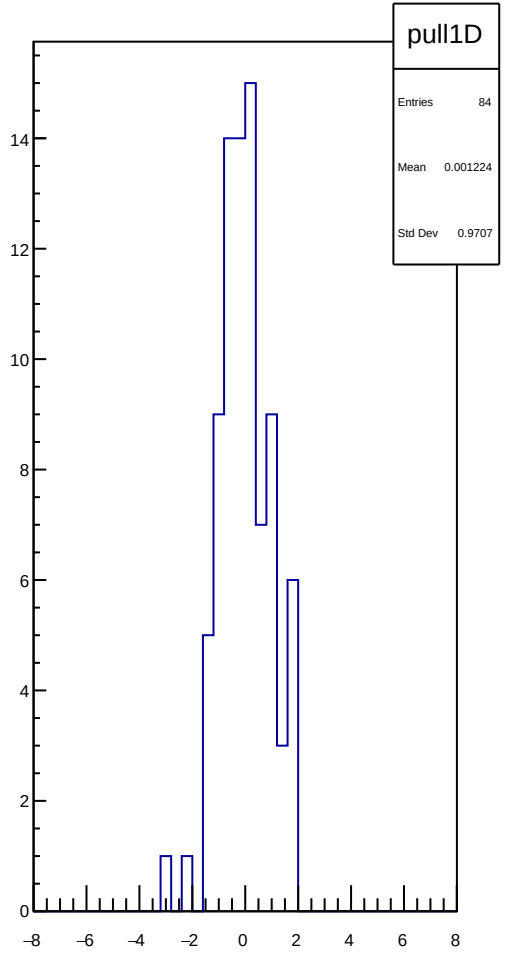

asym_dsr_rms vs run
χ² / ndf 318 / 83
p0 381.1 ± 0.2983
395
390
385
380
375
370
365

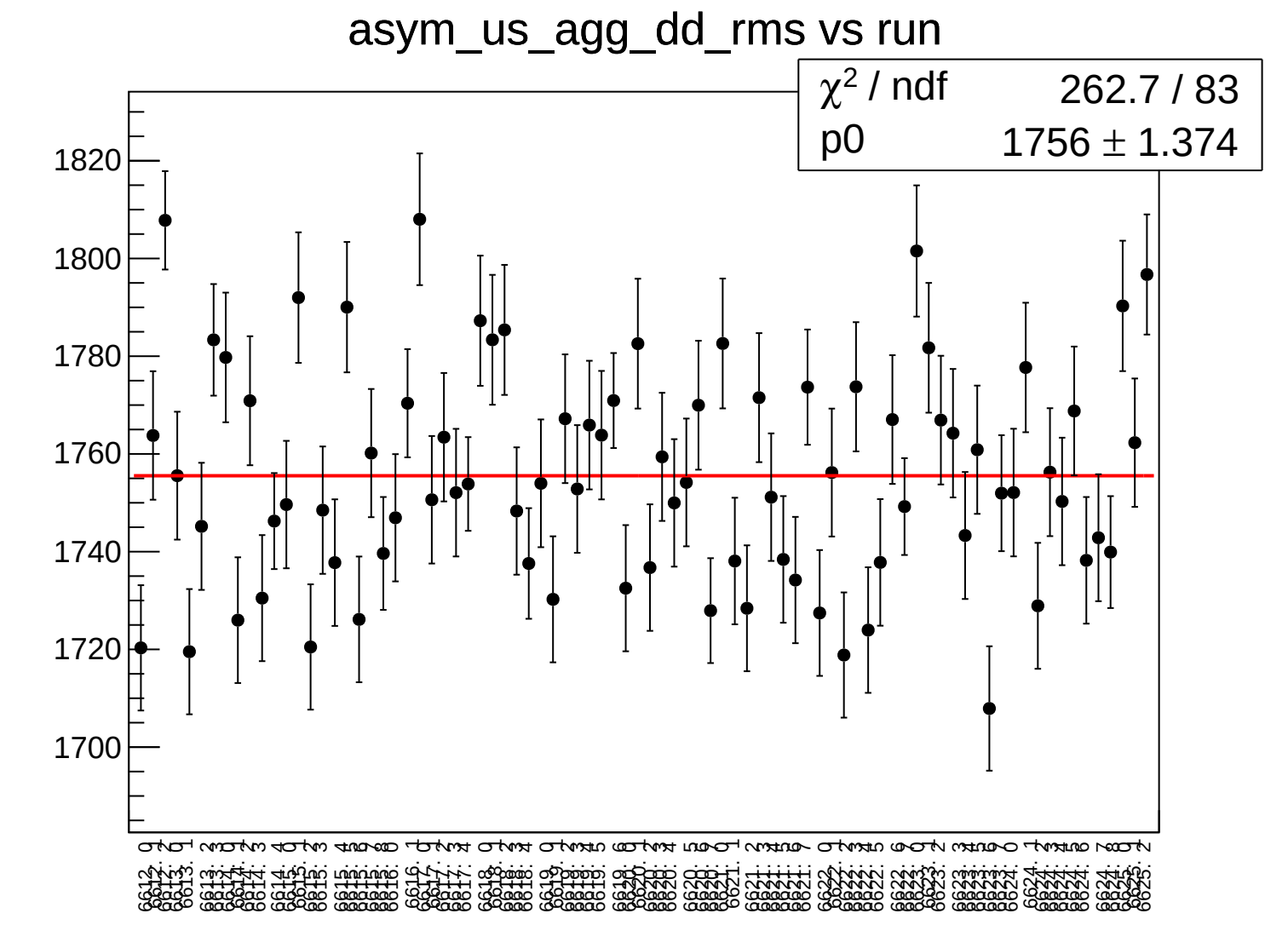

asym_us_agg_avg_mean vs run
χ² / ndf 83.79 / 83
p0 −400.2 ± 2327
pull
Entries 84
Mean −486
Std Dev 0

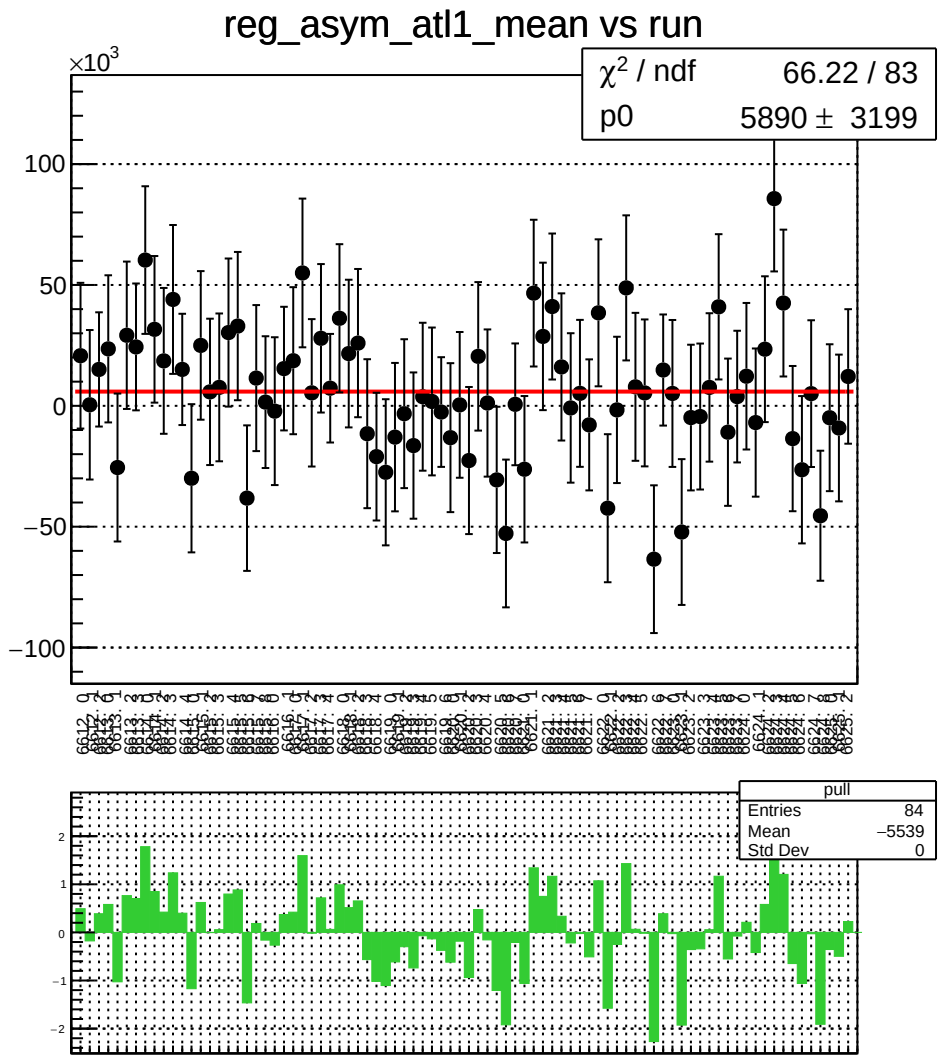

pull1D
Entries 84
Mean −0.004749
Std Dev 0.9987

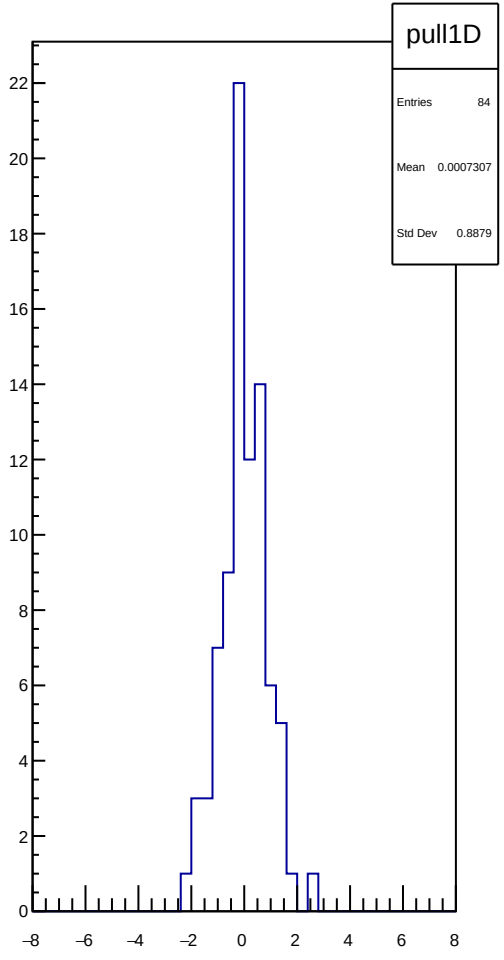

asym_us_agg_avg_rms vs run
χ² / ndf 1668 / 83
p0 2101 ± 1.645
2350
2300
2250
2200
2150
2100
2050
2000
1950

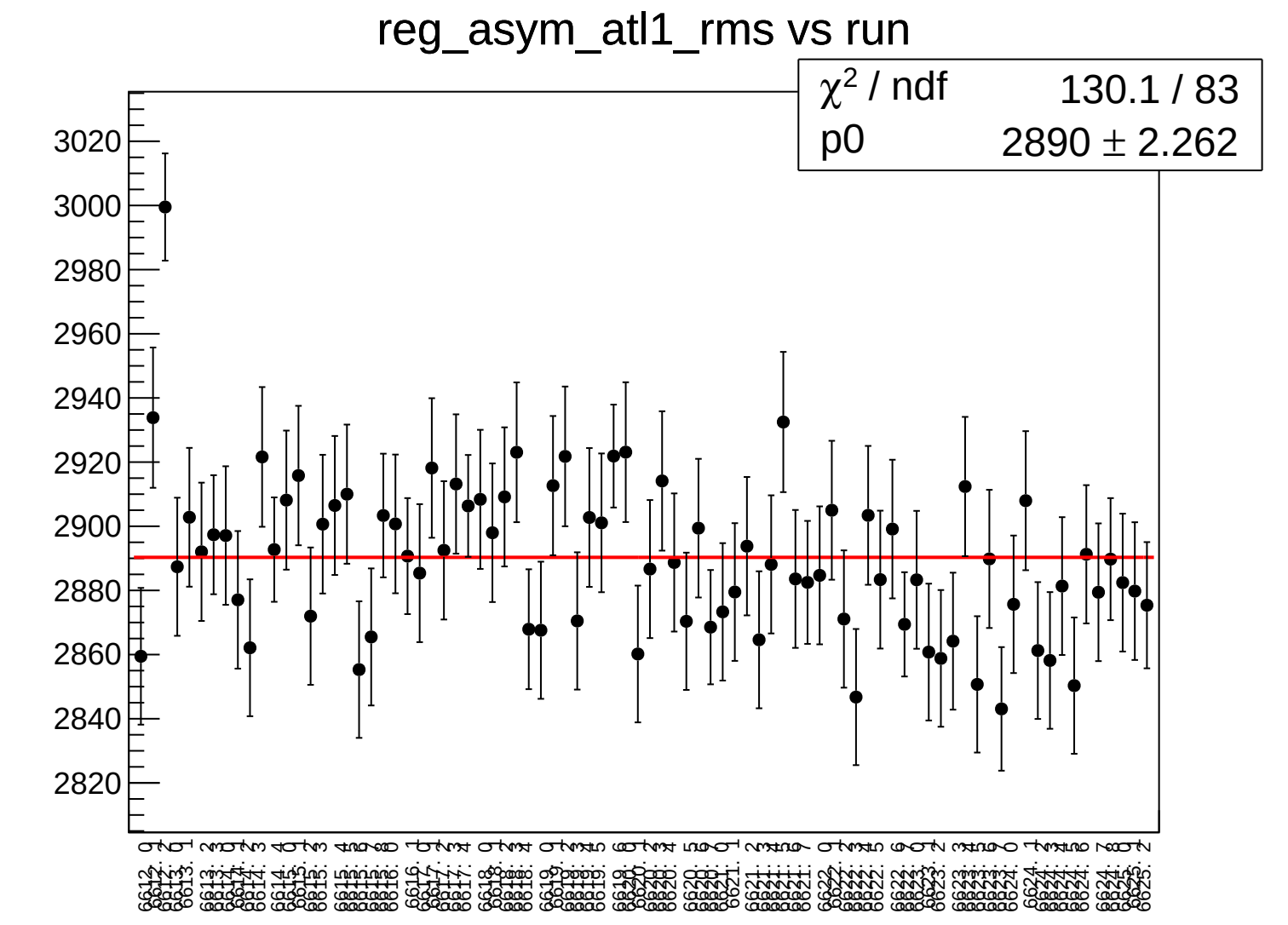

asym_us_agg_dd_mean vs run
χ² / ndf 79.14 / 83
p0 −770.7 ± 1943
pull
Entries 84
Mean 2266
Std Dev 0

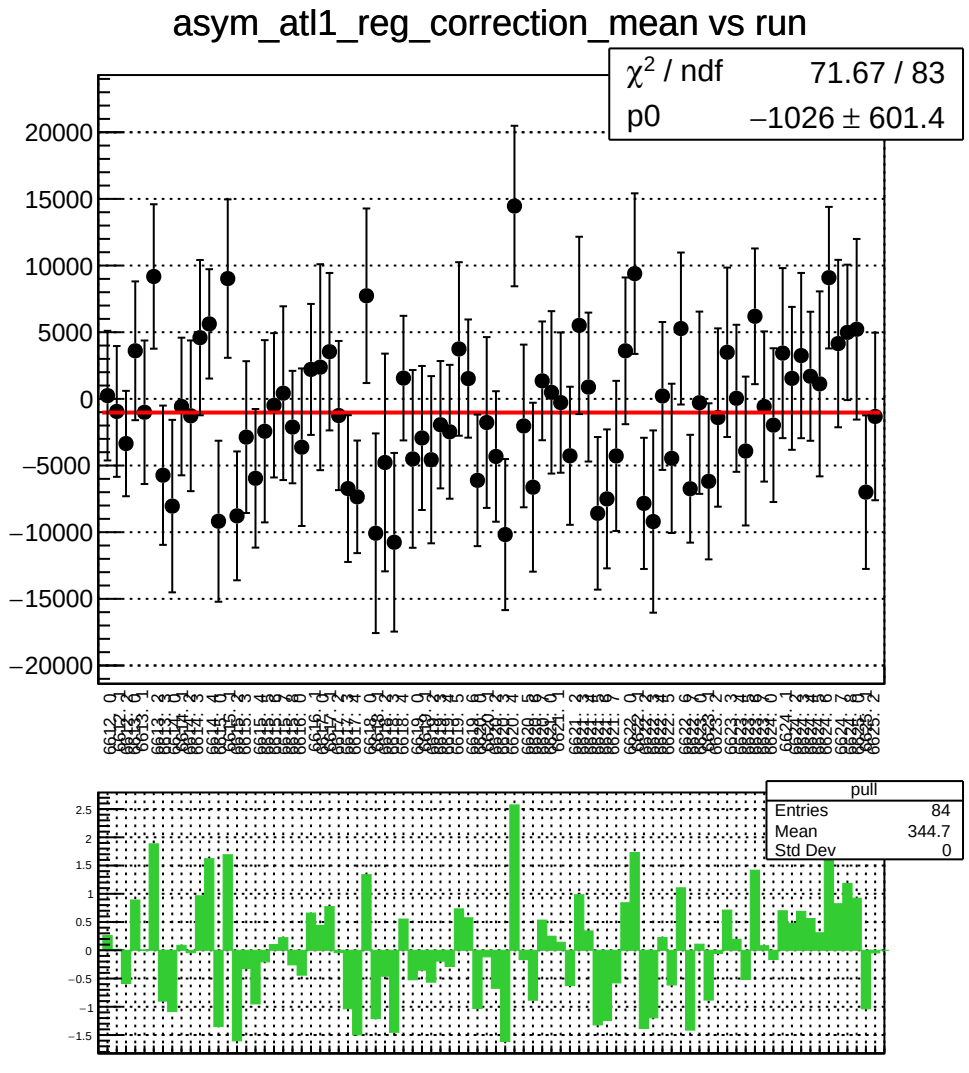

pull1D
Entries 84
Mean 0.001224
Std Dev 0.9707

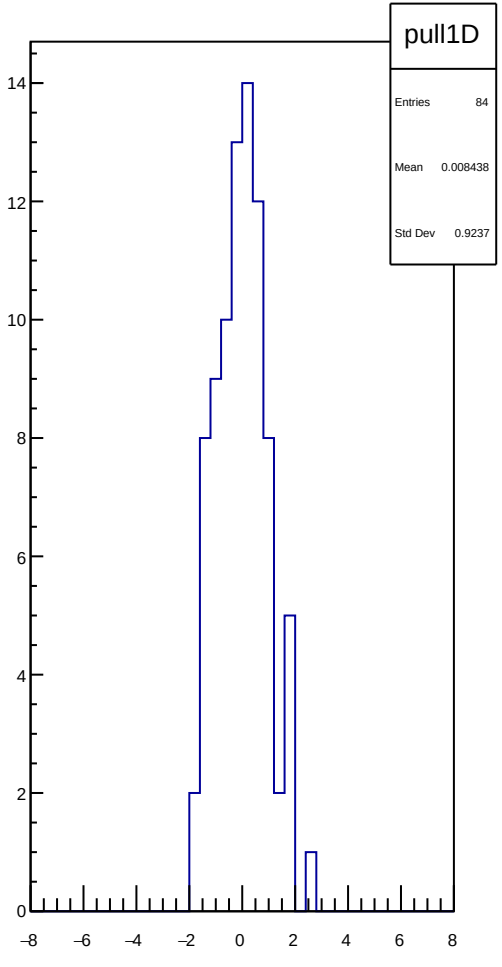

asym_us_agg_dd_rms vs run
χ² / ndf 262.7 / 83
p0 1756 ± 1.374
1820
1800
1780
1760
1740
1720
1700

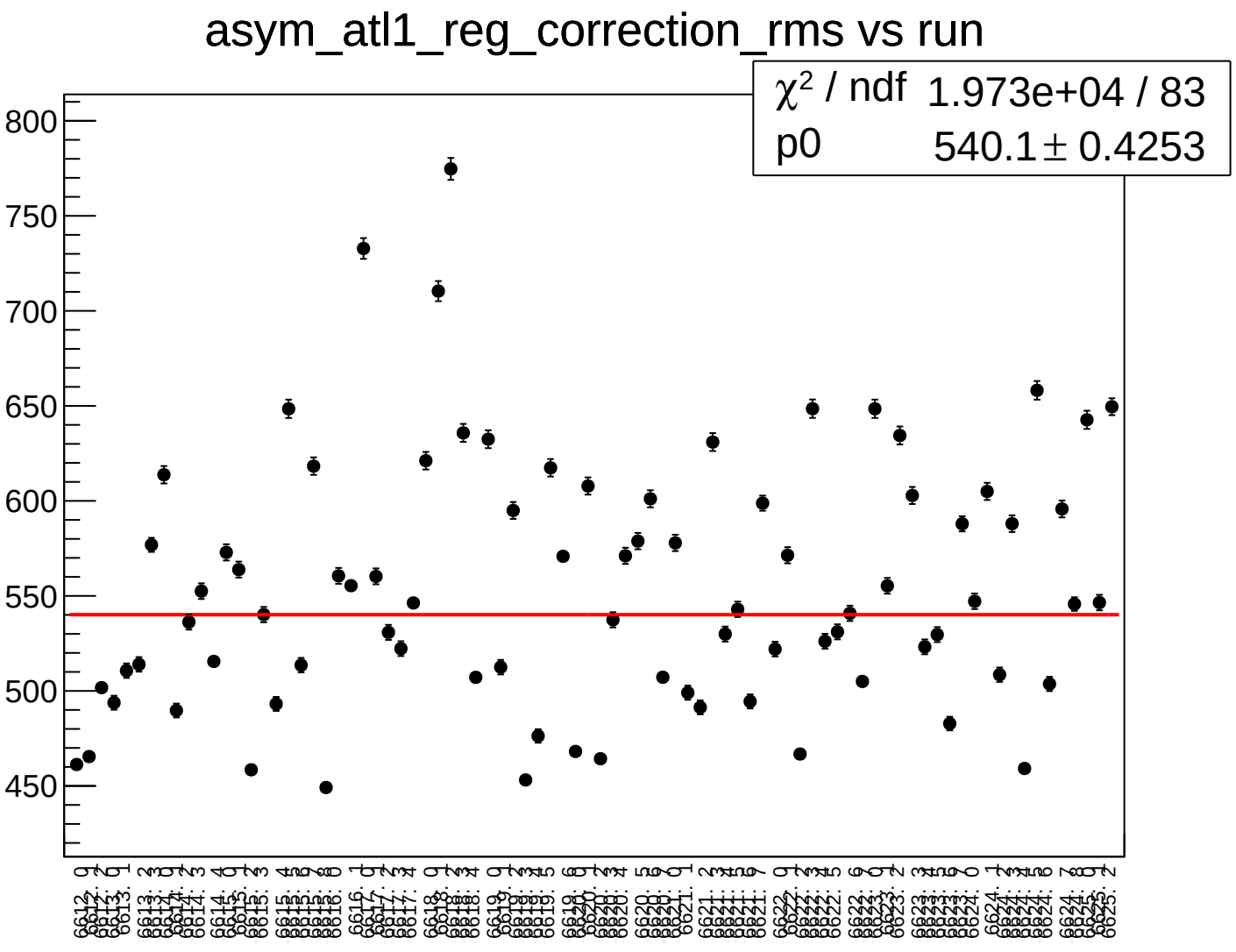

reg_asym_atl1_mean vs run
χ² / ndf 66.22 / 83
p0 5890 ± 3199
×10³
100
50
0
−50
−100
pull
Entries 84
Mean −5539
Std Dev 0
2
1
0
−1
−2

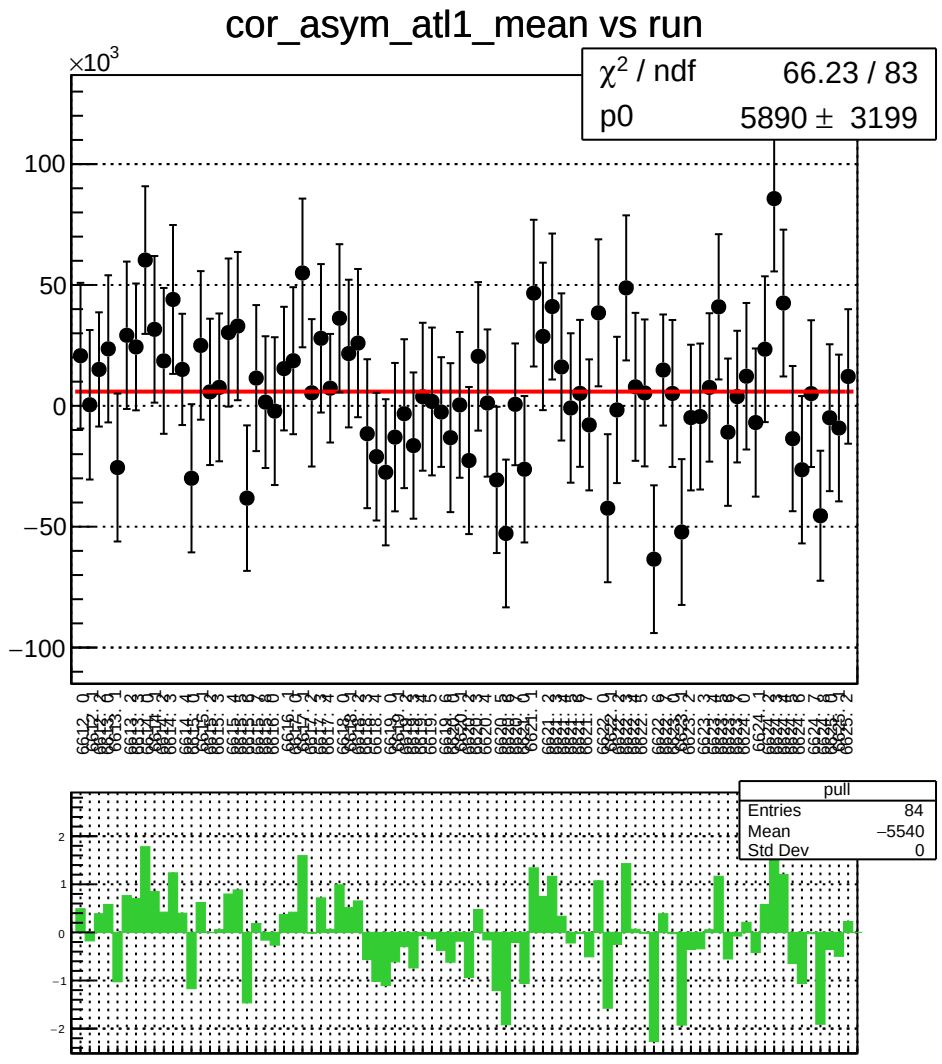

pull1D
Entries 84
Mean 0.0007307
Std Dev 0.8879
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

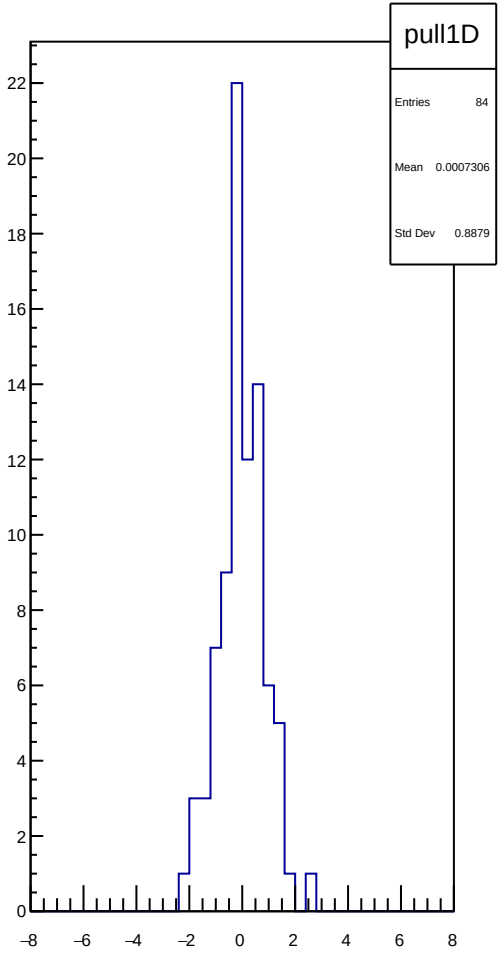

reg_asym_atl1_rms vs run
χ^2 / ndf 130.1 / 83
p0 2890 ± 2.262
3020
3000
2980
2960
2940
2920
2900
2880
2860
2840
2820

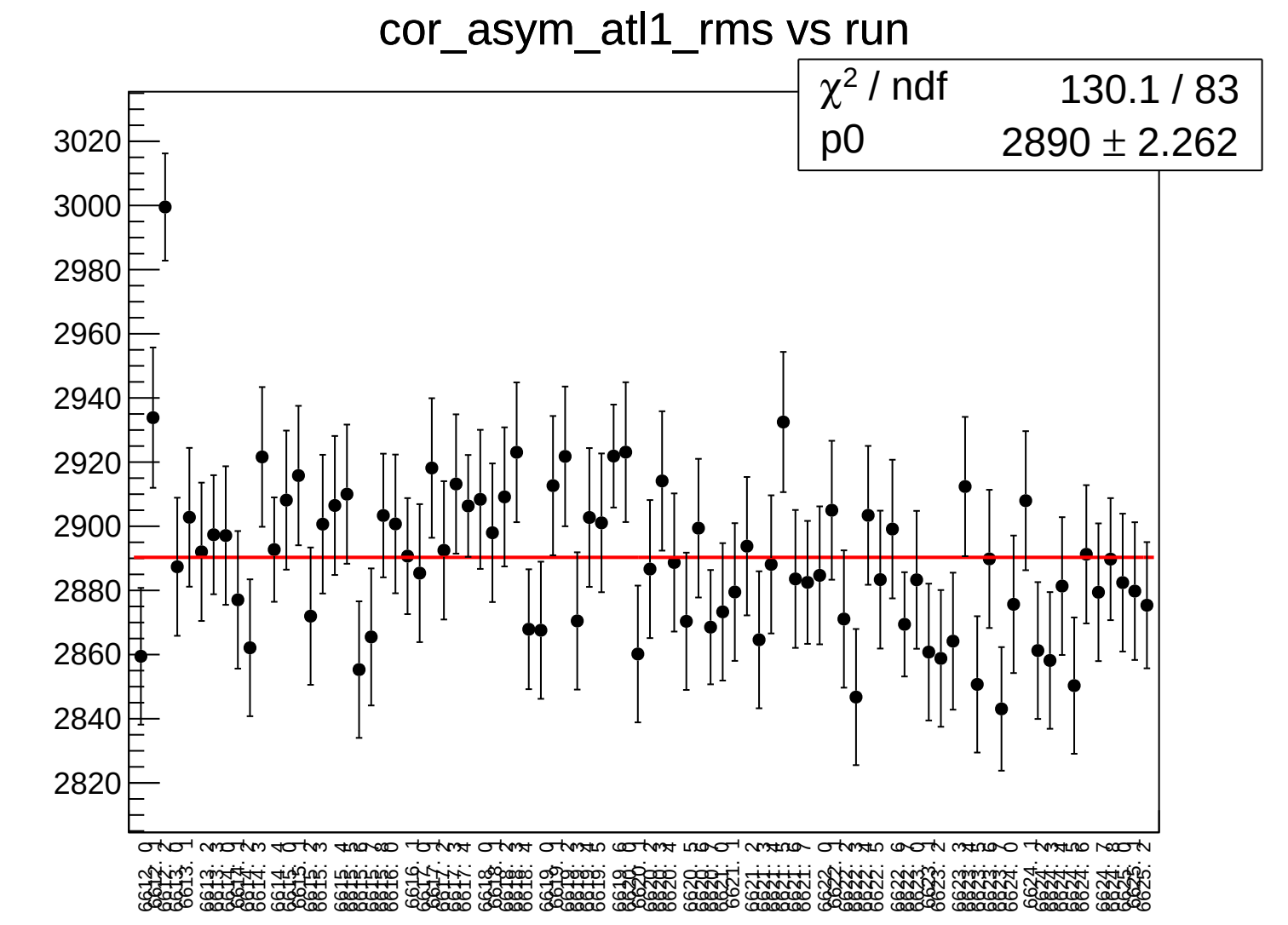

asym_atl1_reg_correction_mean vs run
χ² / ndf 71.67 / 83
p0 −1026 ± 601.4
pull
Entries 84
Mean 344.7
Std Dev 0

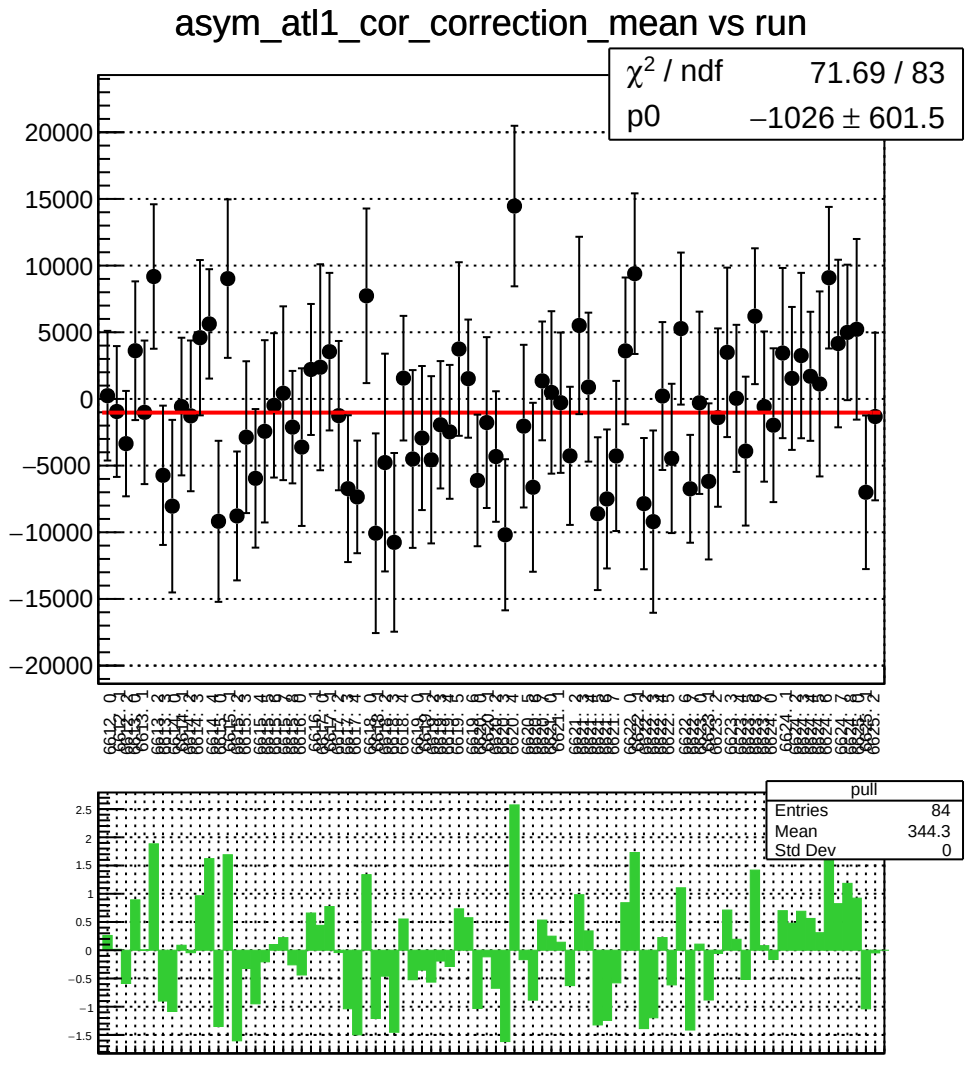

pull1D
Entries 84
Mean 0.008438
Std Dev 0.9237

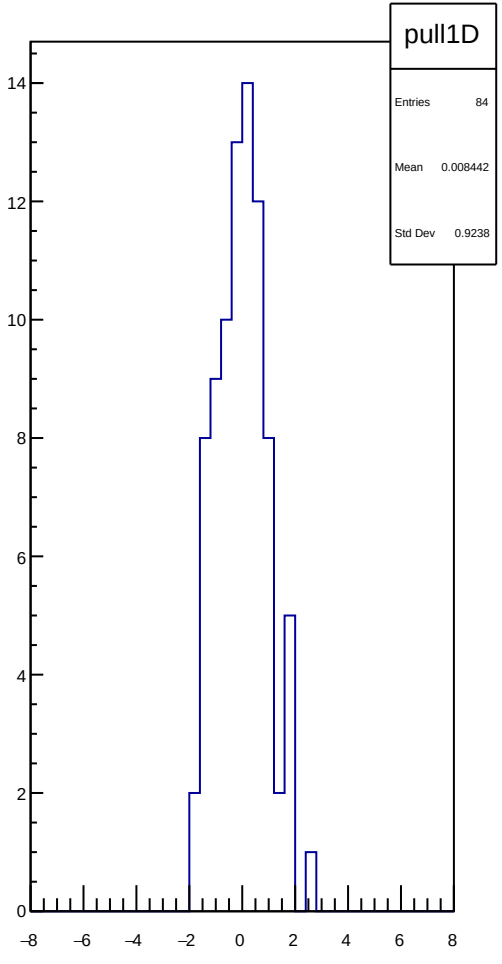

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.973e+04 / 83
p0 540.1 ± 0.4253
800
750
700
650
600
550
500
450

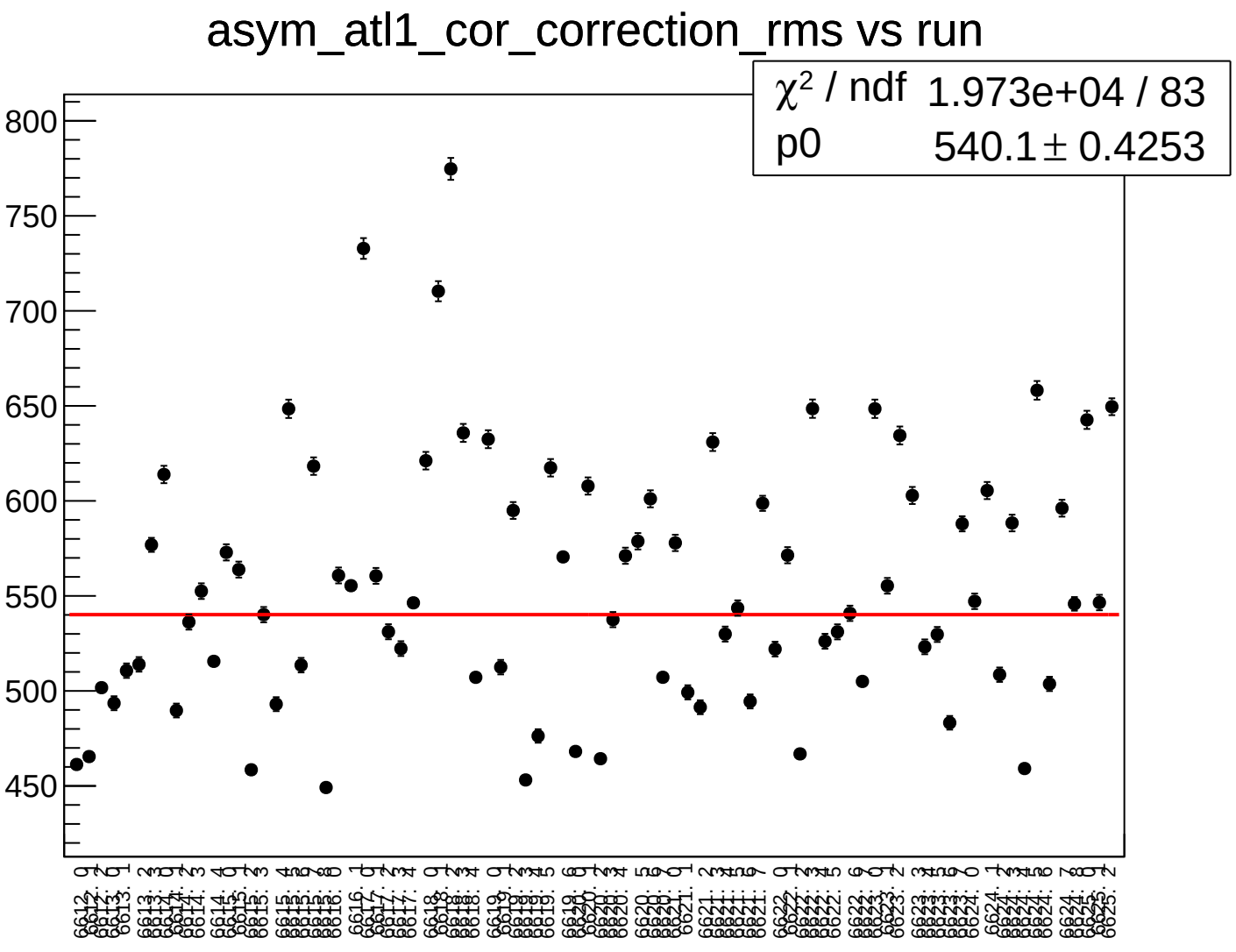

cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 66.23 / 83
p0 5890 ± 3199
100
50
0
−50
−100
pull
Entries 84
Mean −5540
Std Dev 0
2
1
0
−1
−2

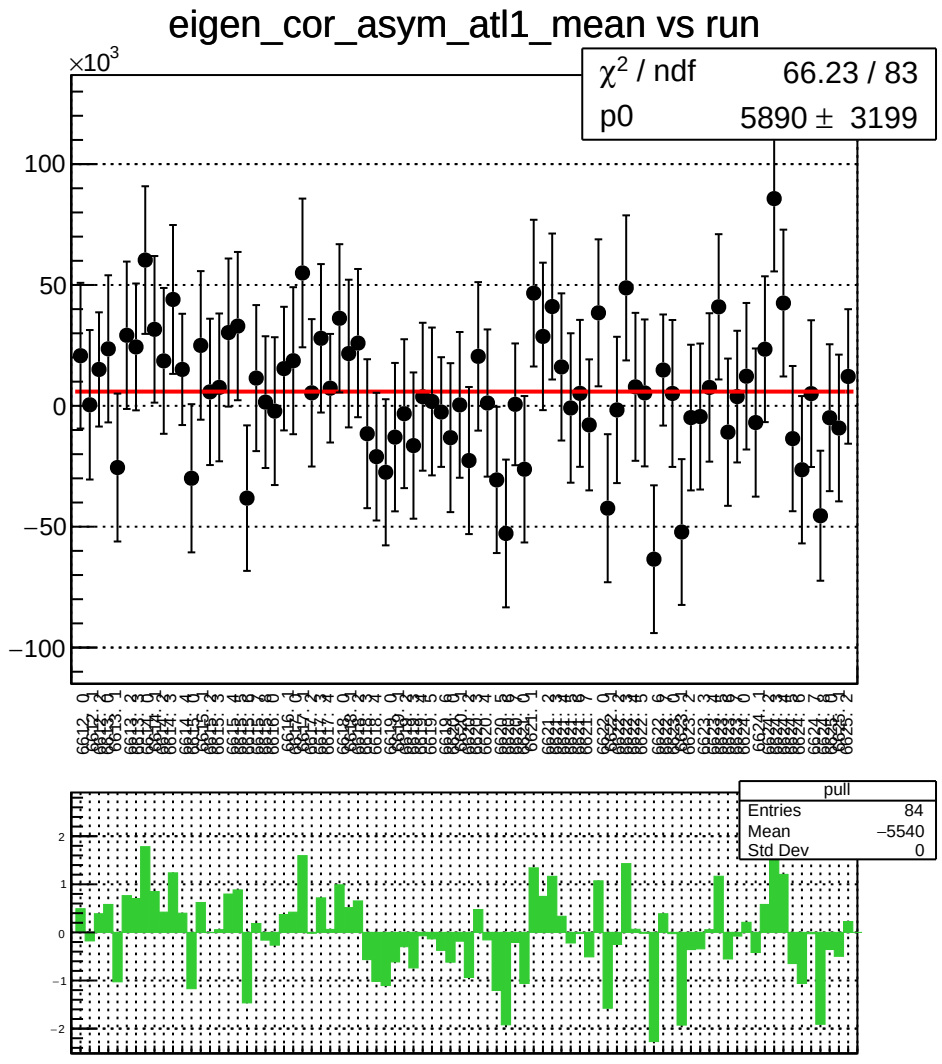

pull1D
Entries 84
Mean 0.0007306
Std Dev 0.8879
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

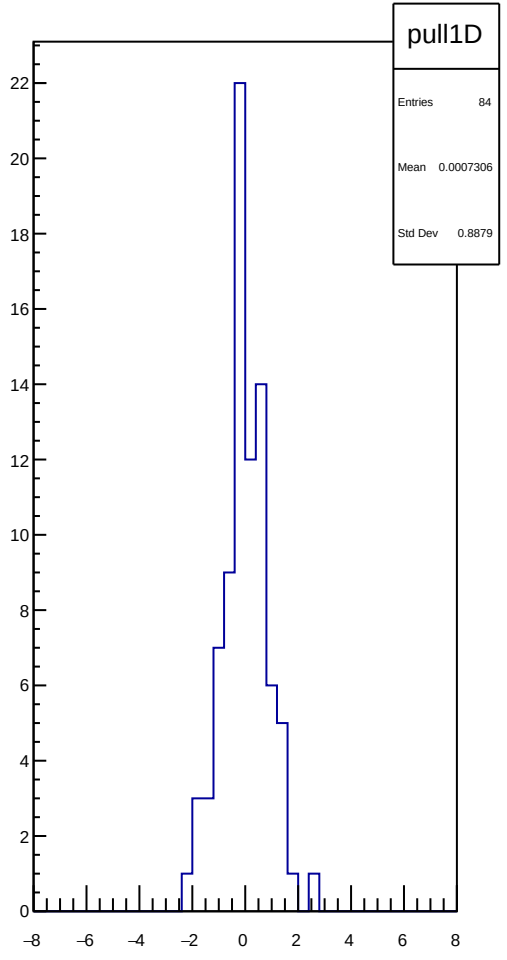

cor_asym_atl1_rms vs run
χ^2 / ndf 130.1 / 83
p0 2890 ± 2.262
3020
3000
2980
2960
2940
2920
2900
2880
2860
2840
2820

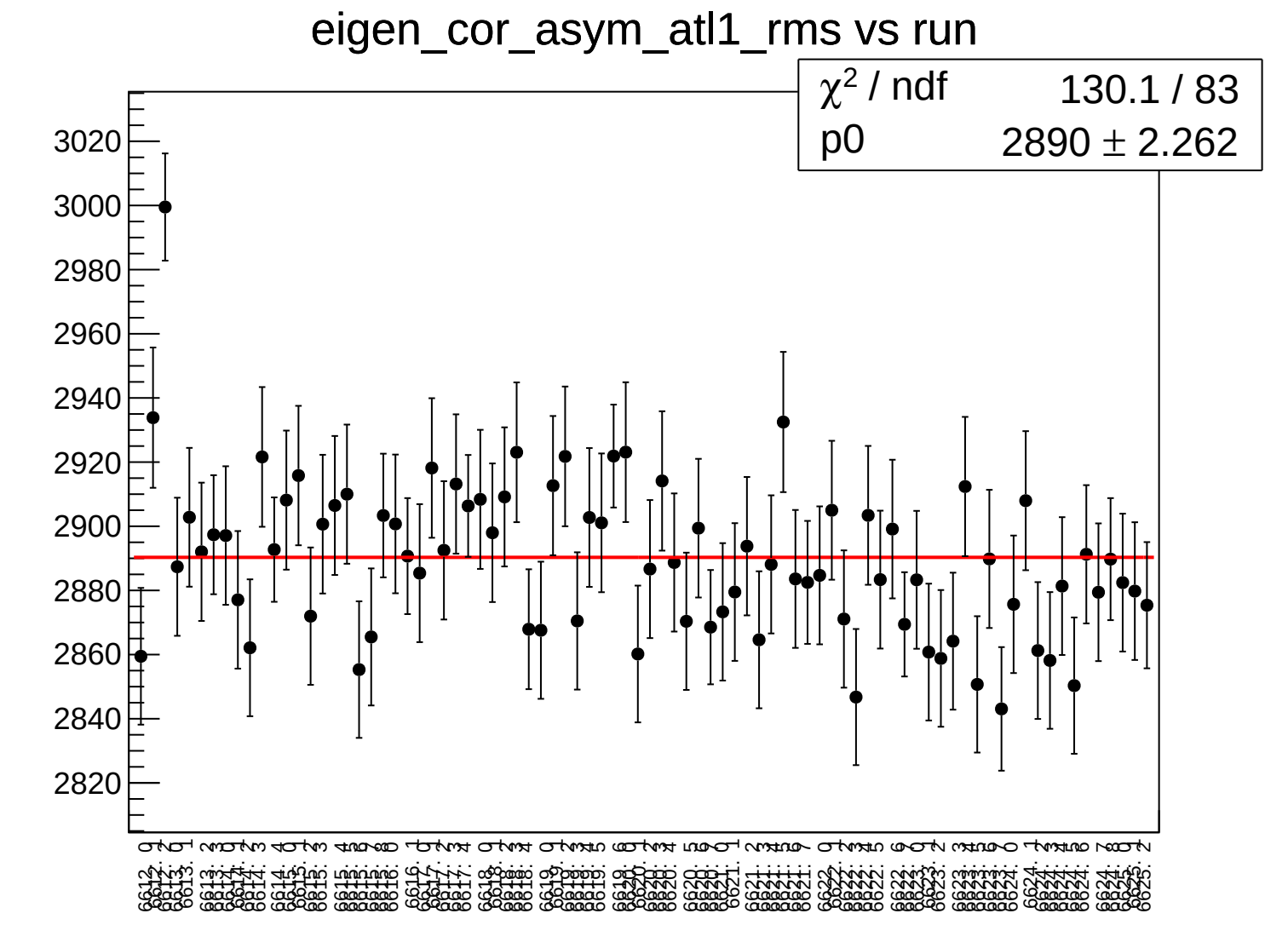

asym_atl1_cor_correction_mean vs run
χ² / ndf 71.69 / 83
p0 −1026 ± 601.5
pull
Entries 84
Mean 344.3
Std Dev 0

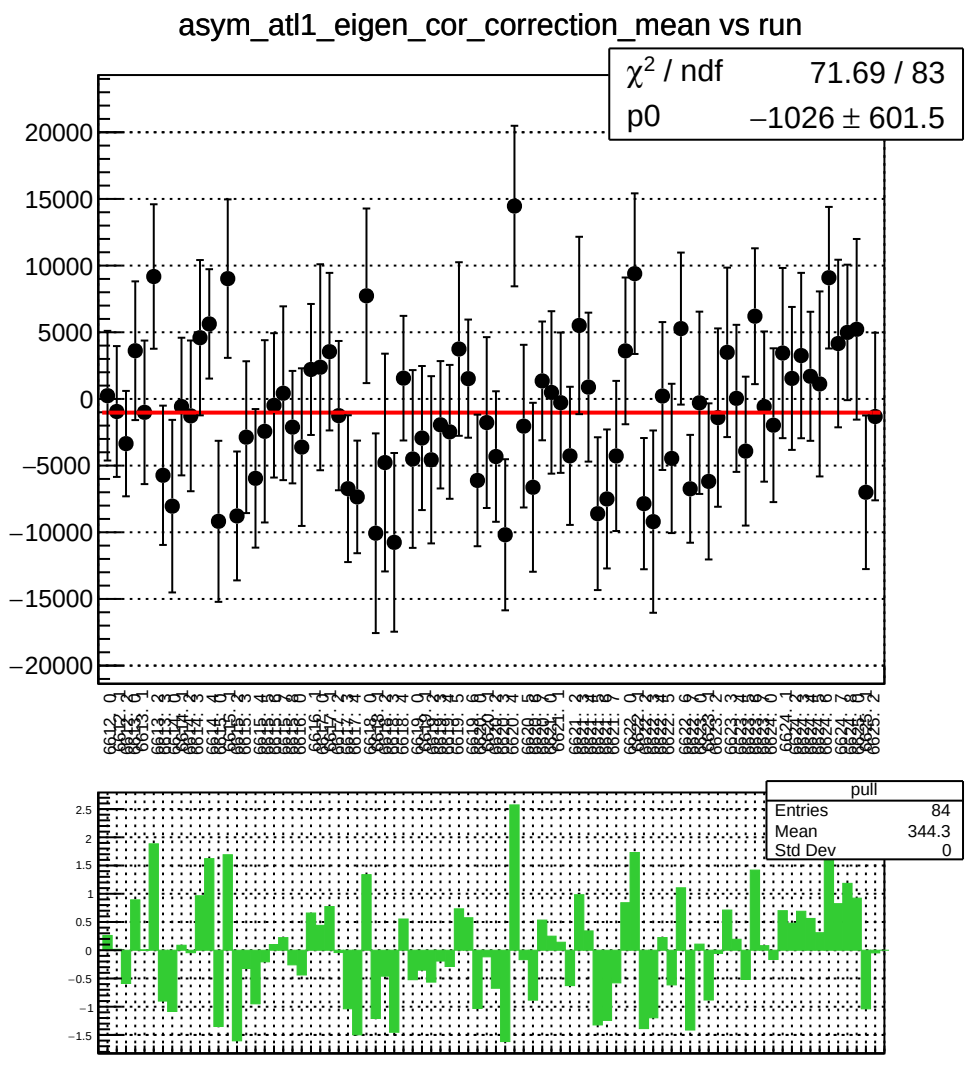

pull1D
Entries 84
Mean 0.008442
Std Dev 0.9238

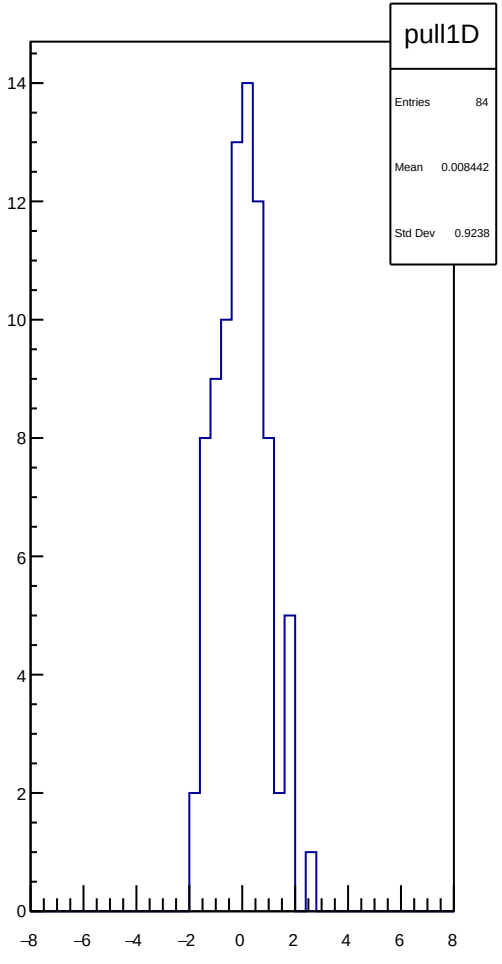

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.973e+04 / 83
p0 540.1 ± 0.4253
800
750
700
650
600
550
500
450

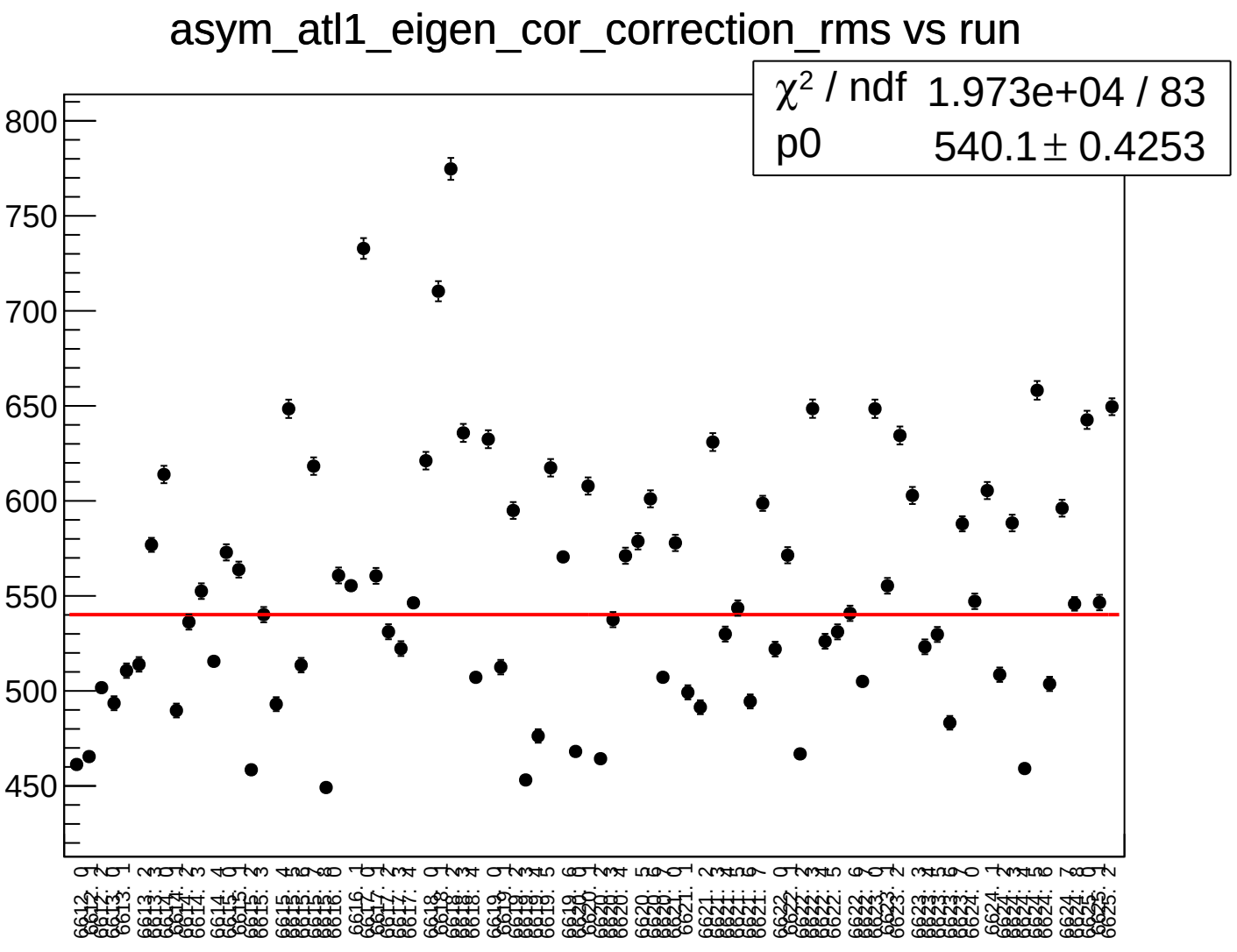

eigen_cor_asym_atl1_mean vs run
χ² / ndf 66.23 / 83
p0 5890 ± 3199
×10³
100
50
0
−50
−100
pull
Entries 84
Mean −5540
Std Dev 0
2
1
0
−1
−2

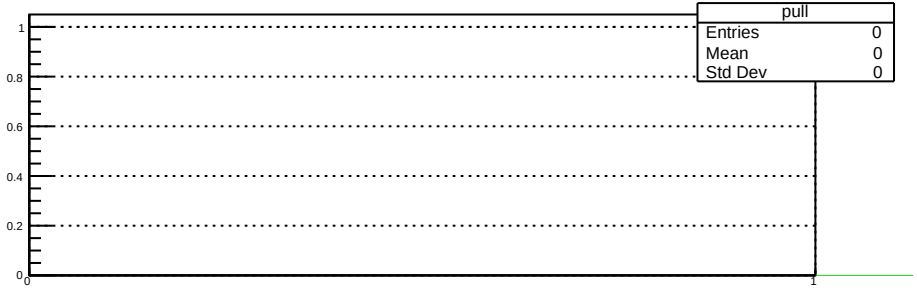

pull1D
Entries 84
Mean 0.0007306
Std Dev 0.8879
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

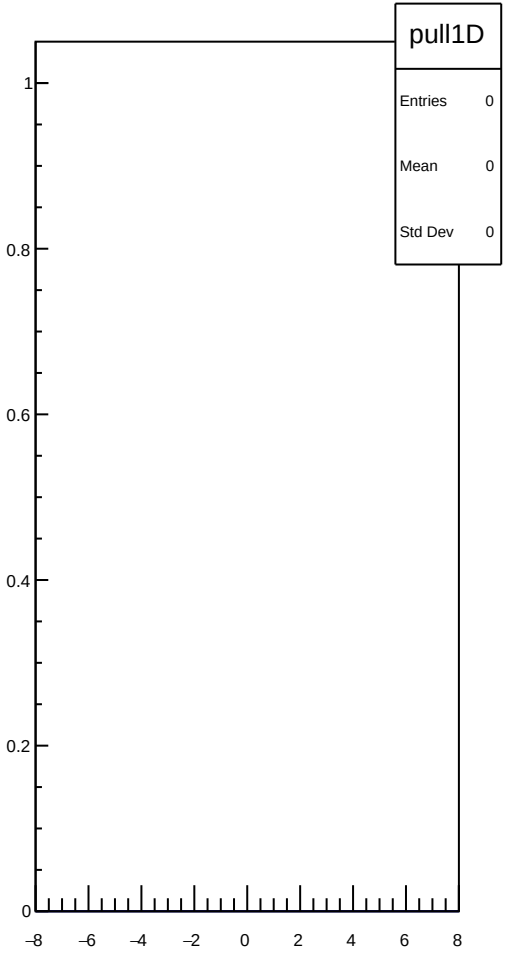

eigen_cor_asym_atl1_rms vs run
χ² / ndf 130.1 / 83
p0 2890 ± 2.262
3020
3000
2980
2960
2940
2920
2900
2880
2860
2840
2820

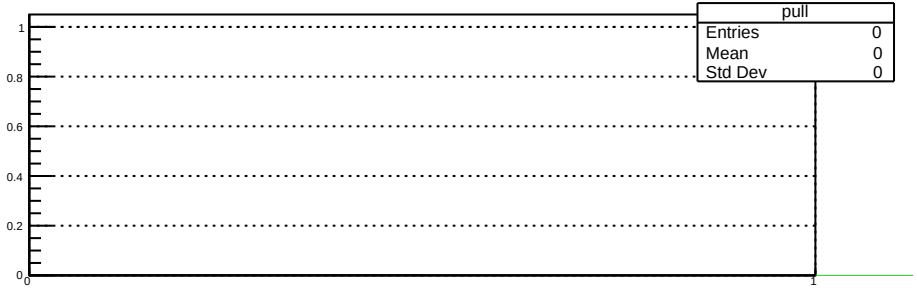

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 71.69 / 83
p0 −1026 ± 601.5
pull
Entries 84
Mean 344.3
Std Dev 0

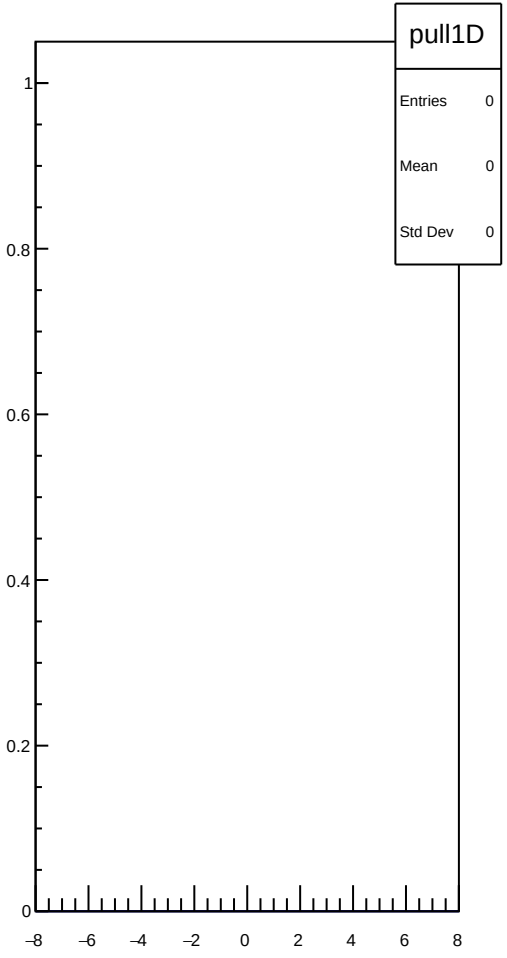

pull1D
Entries 84
Mean 0.008442
Std Dev 0.9238

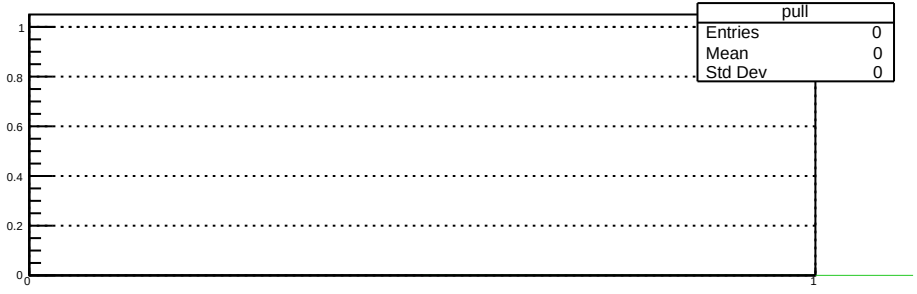

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.973e+04 / 83
p0 540.1 ± 0.4253
800
750
700
650
600
550
500
450

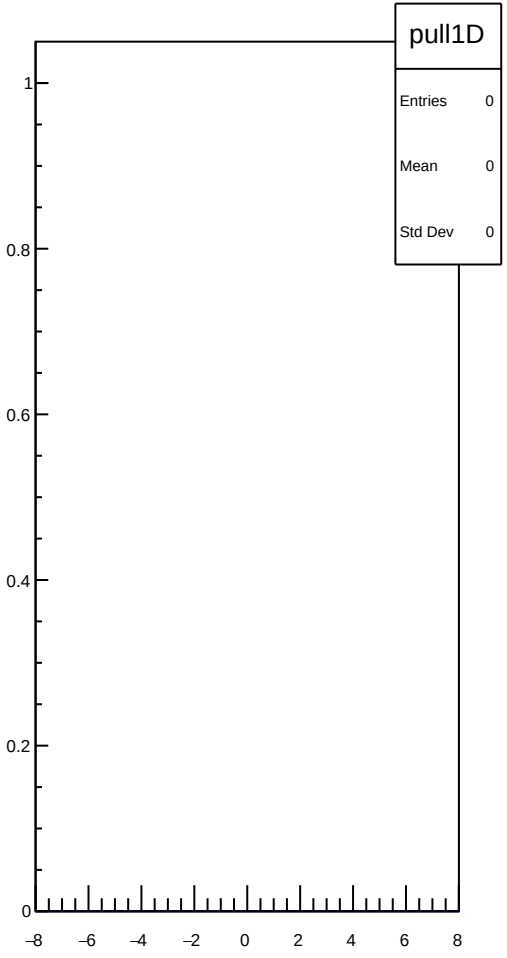

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

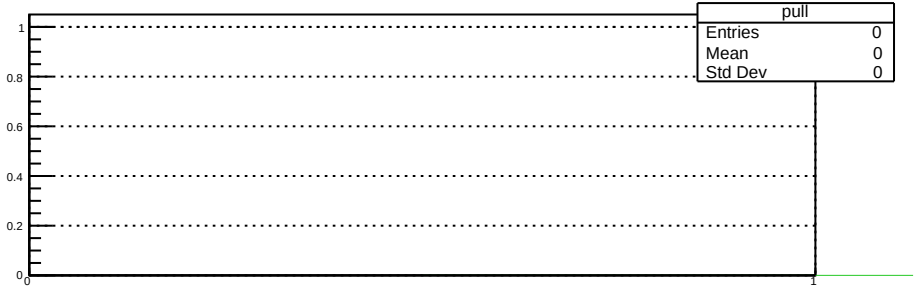

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

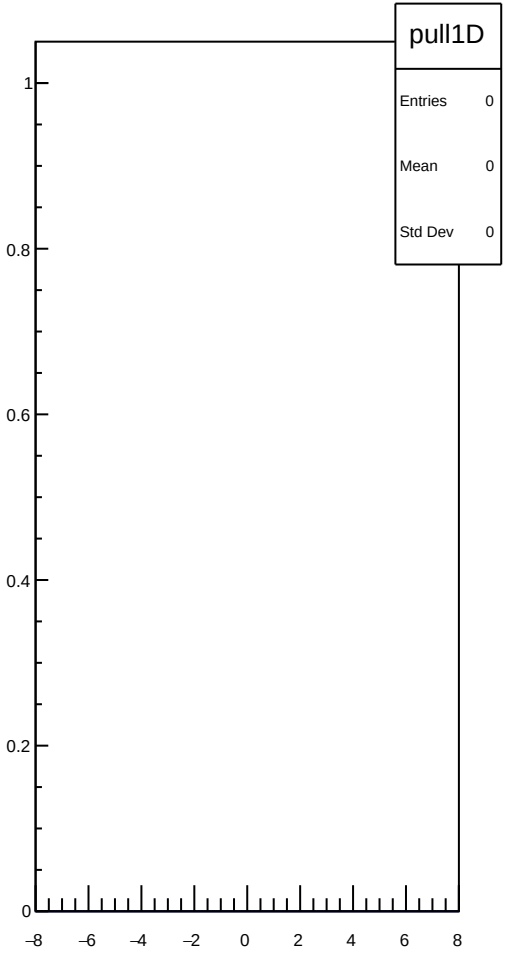

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

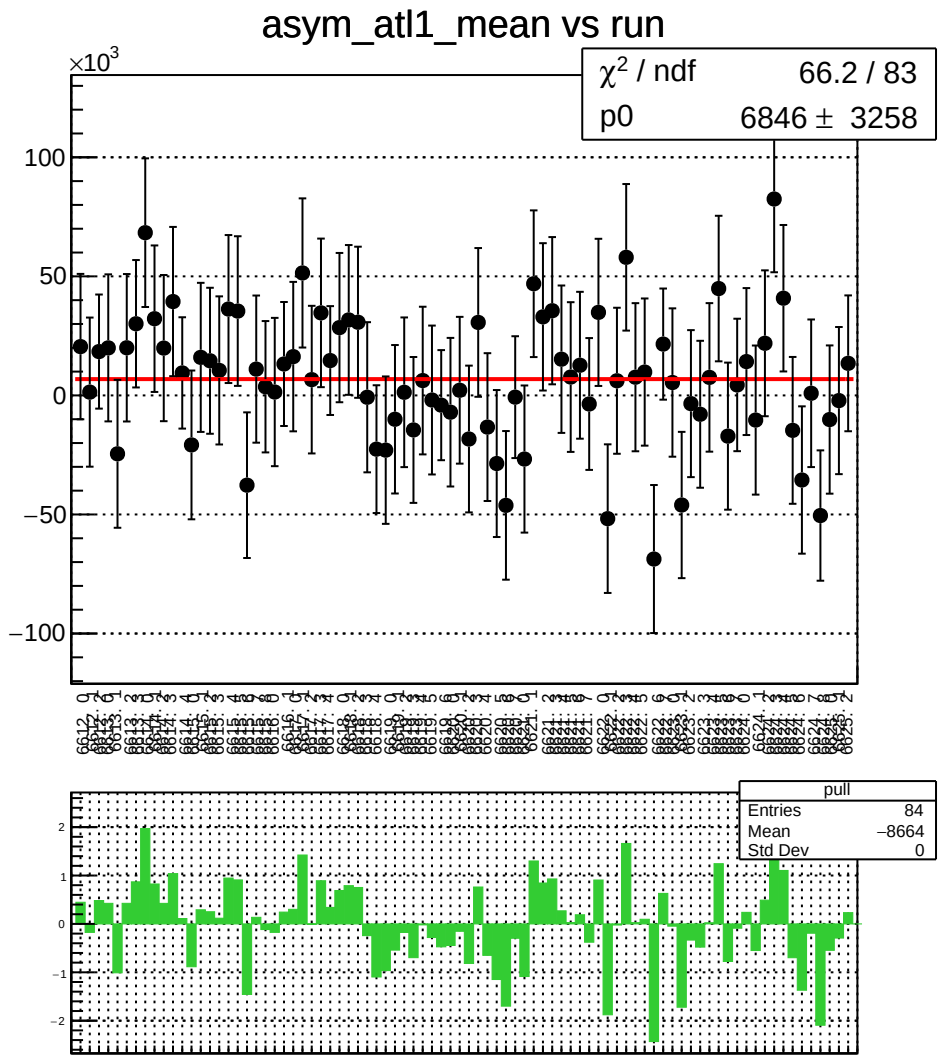

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

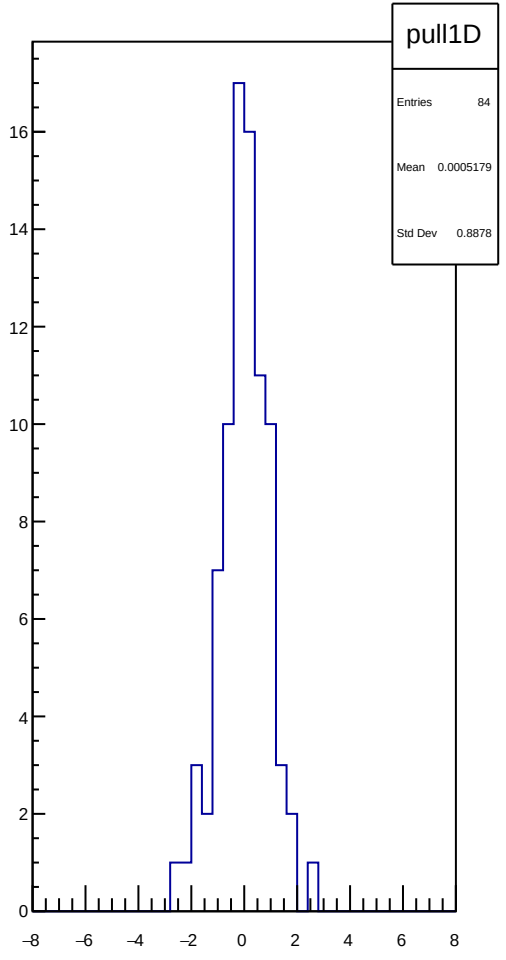

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

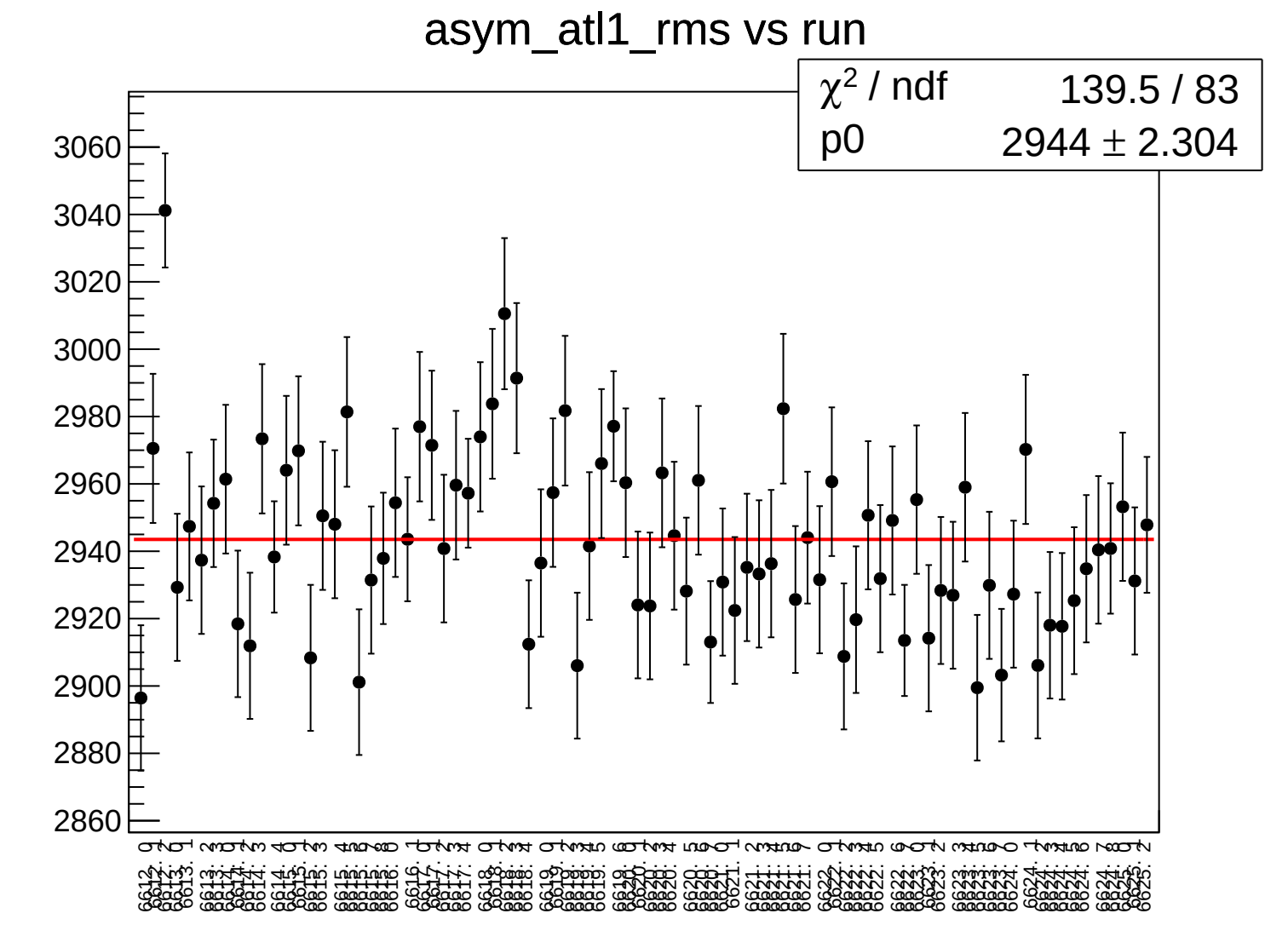

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

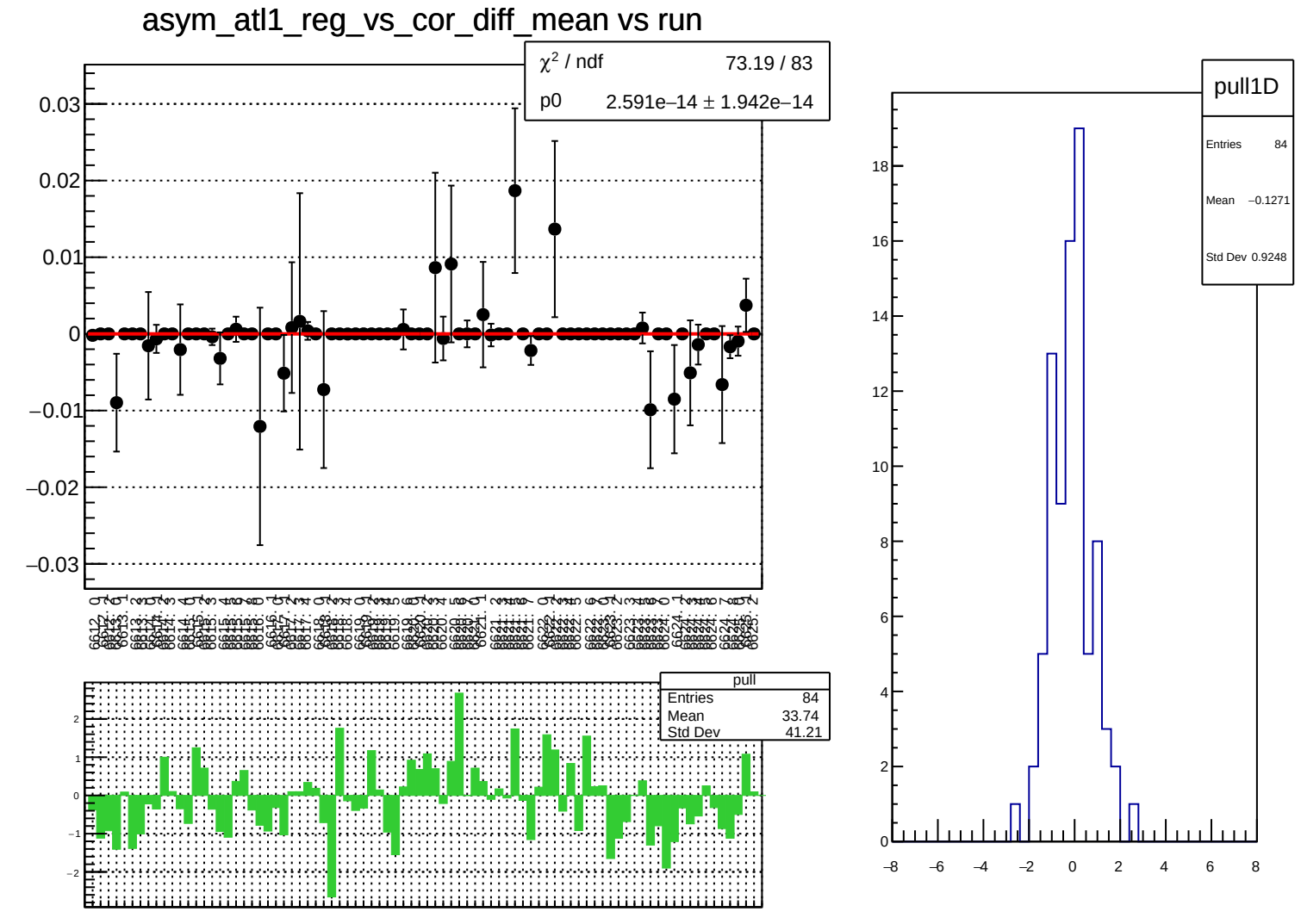

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

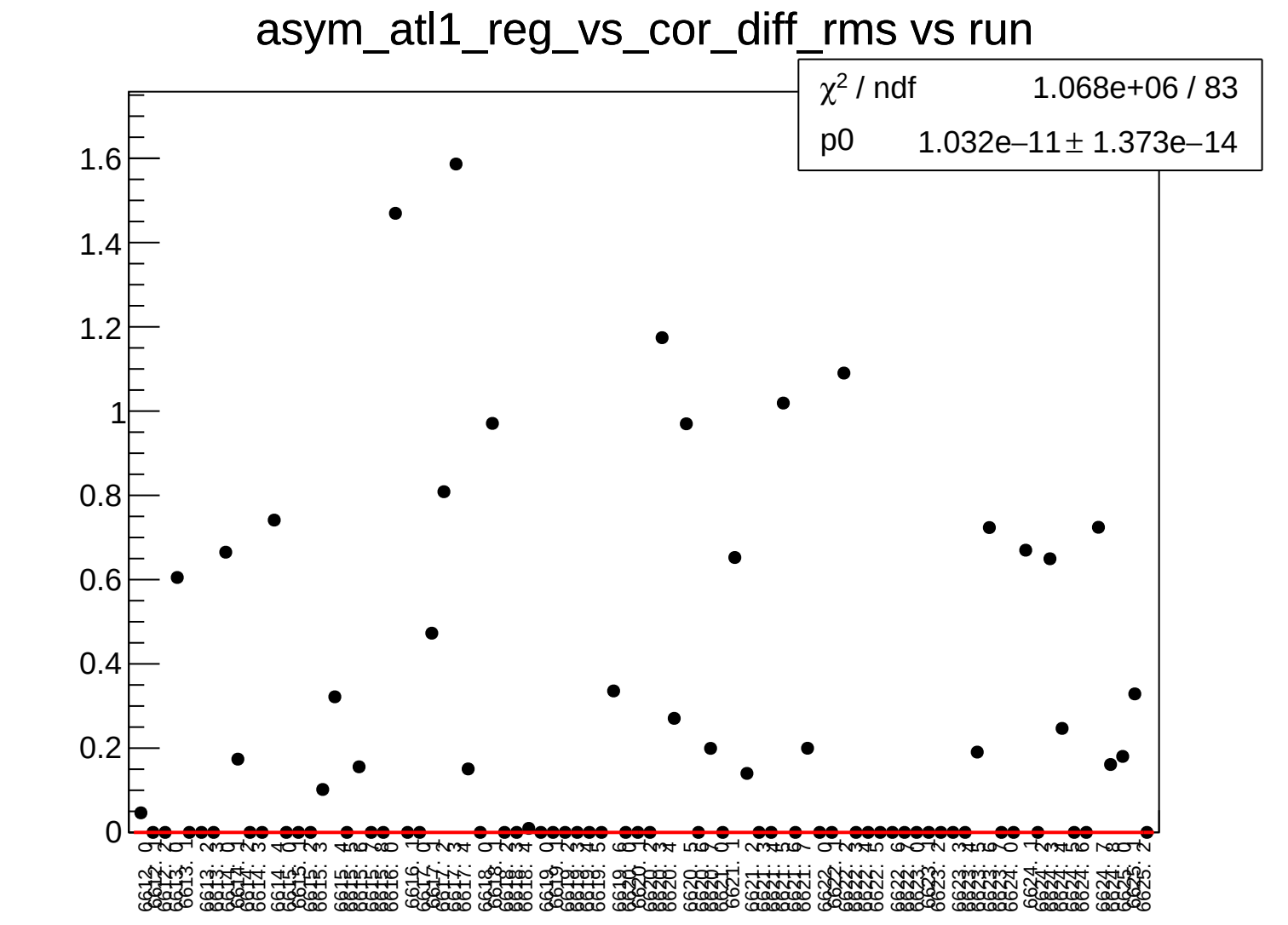

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

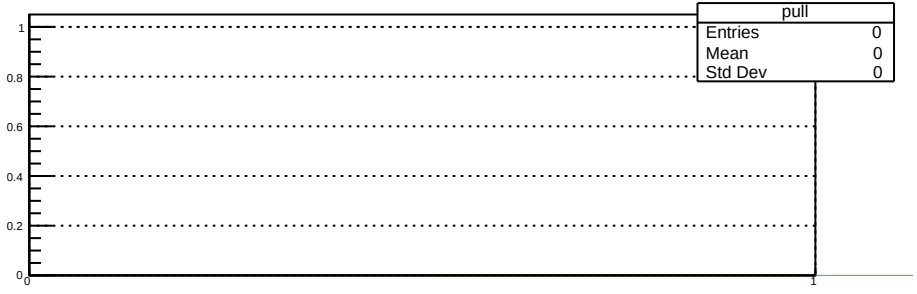

asym_atl1_mean vs run
×10^3
χ² / ndf 66.2 / 83
p0 6846 ± 3258
100
50
0
−50
−100
pull
Entries 84
Mean −8664
Std Dev 0
2
1
0
−1
−2

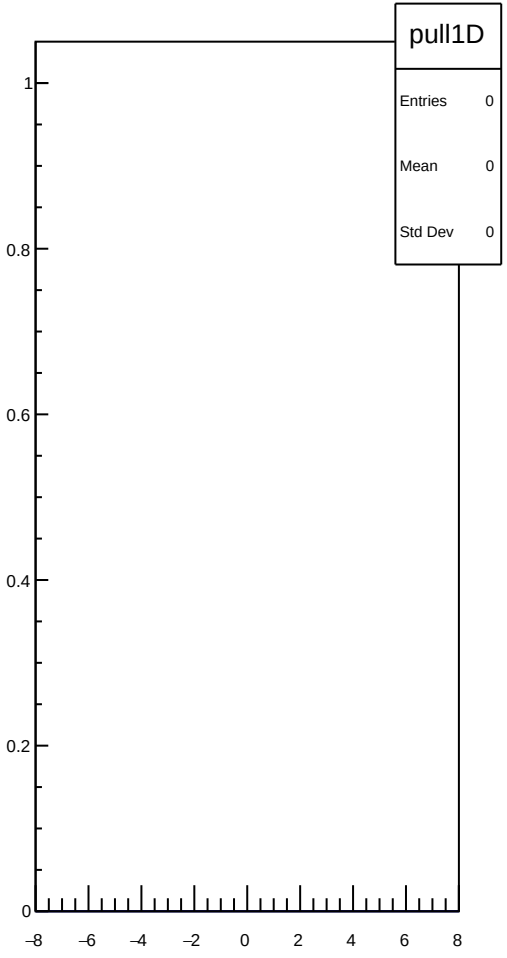

pull1D
Entries 84
Mean 0.0005179
Std Dev 0.8878
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

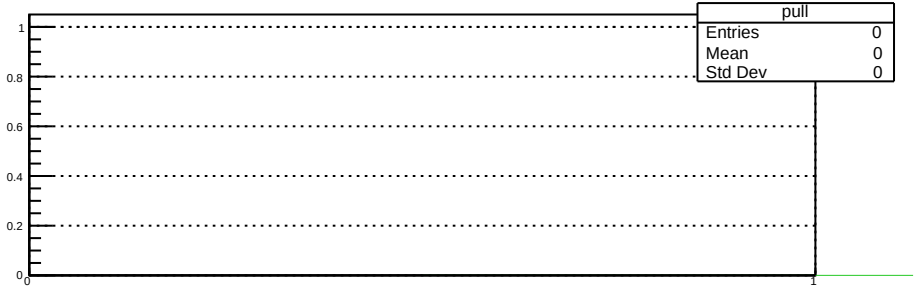

asym_atl1_rms vs run
χ^2 / ndf 139.5 / 83
p0 2944 ± 2.304
3060
3040
3020
3000
2980
2960
2940
2920
2900
2880
2860

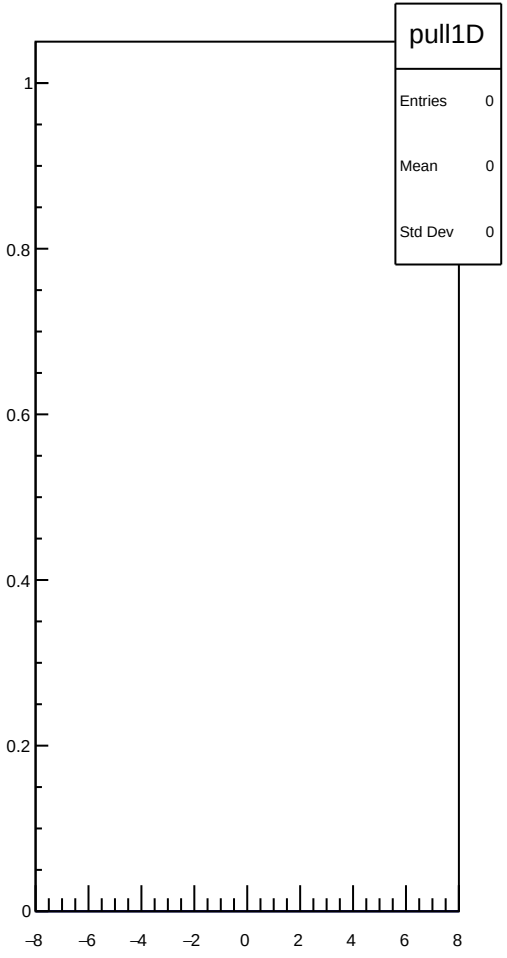

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 73.19 / 83
p0 2.591e−14 ± 1.942e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean 33.74
Std Dev 41.21
pull1D
Entries 84
Mean −0.1271
Std Dev 0.9248
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

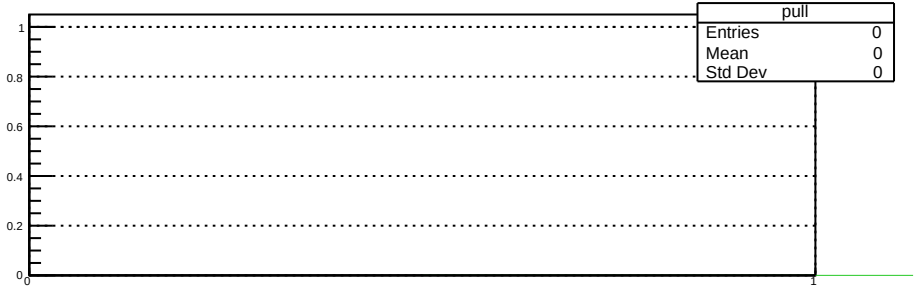

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.068e+06 / 83
p0 1.032e−11 ± 1.373e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

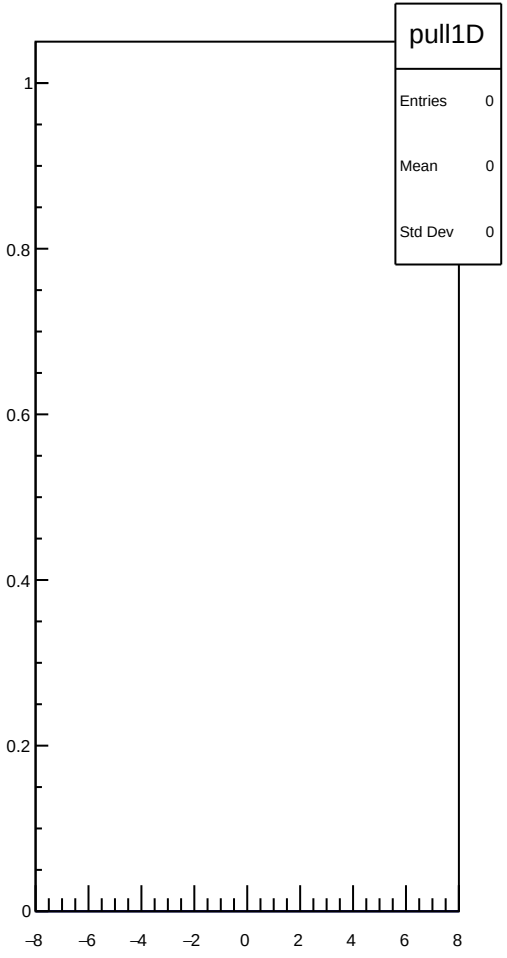

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

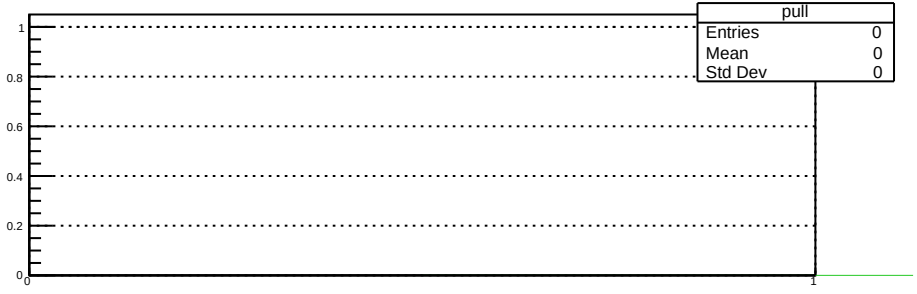

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

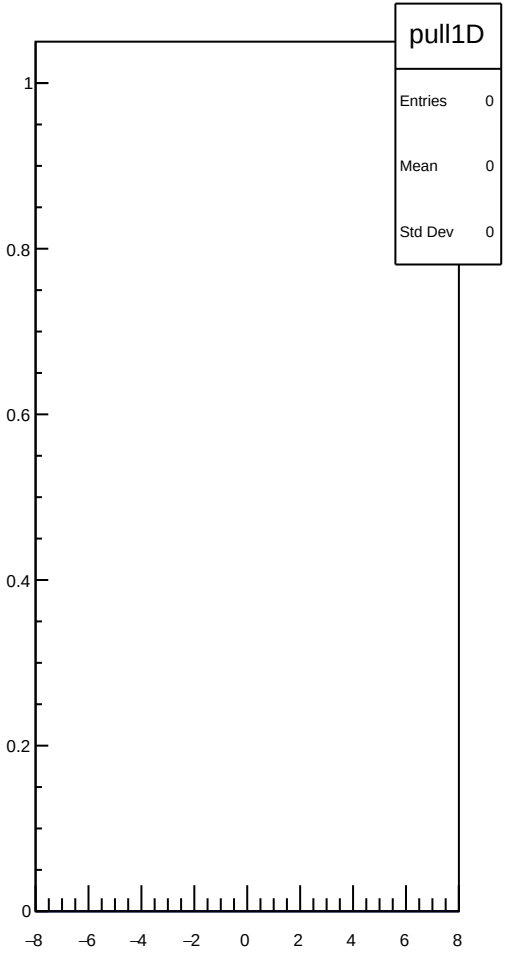

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

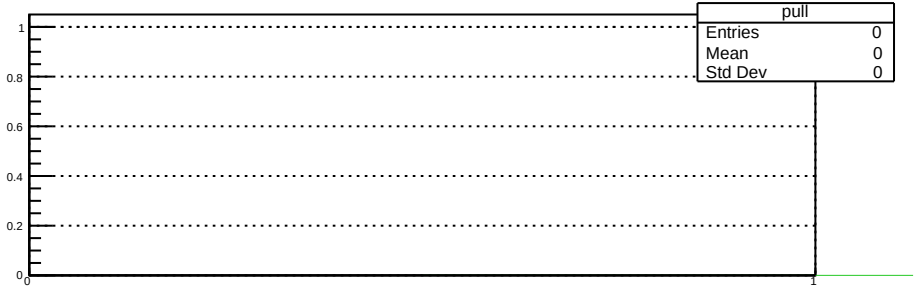

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

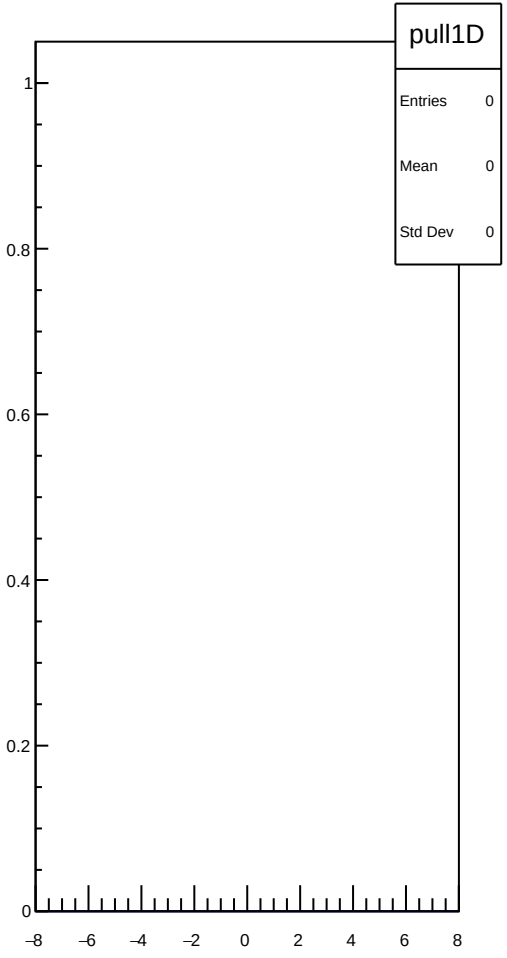

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

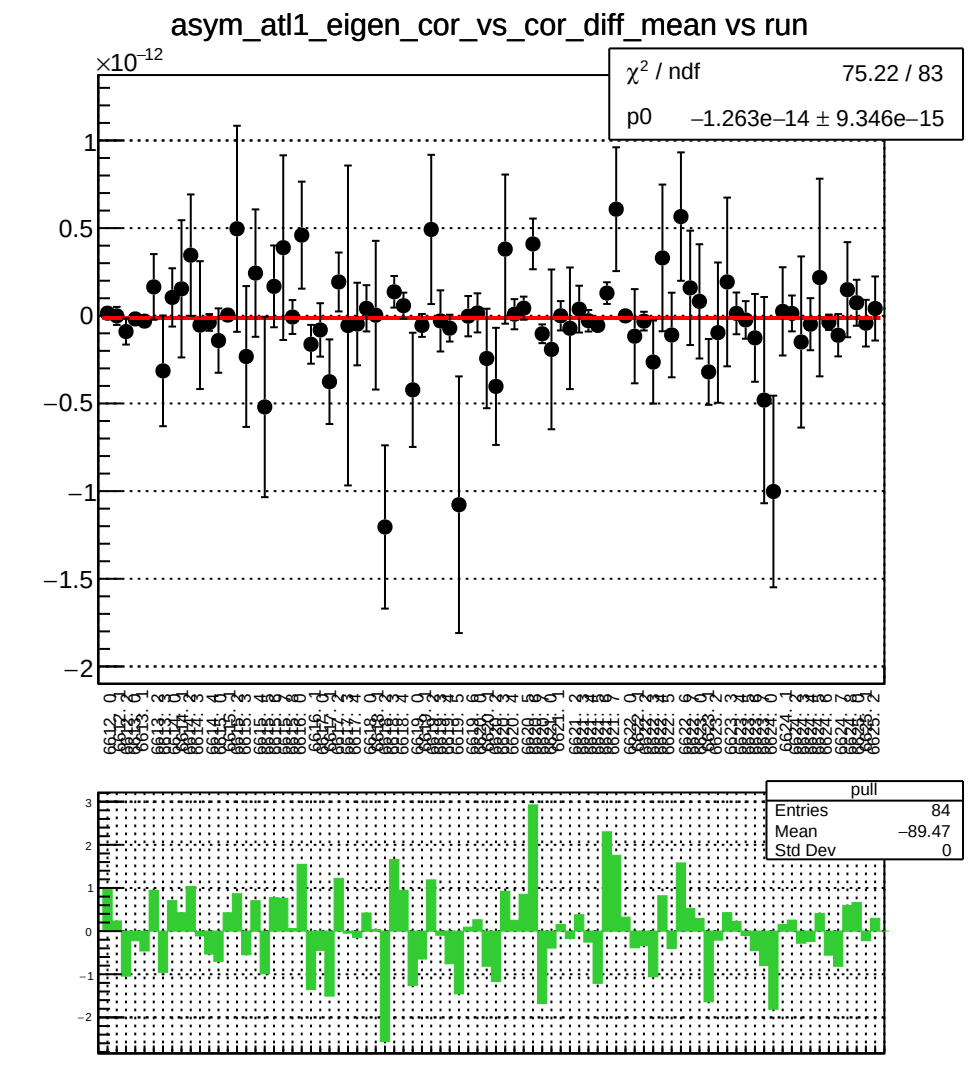

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

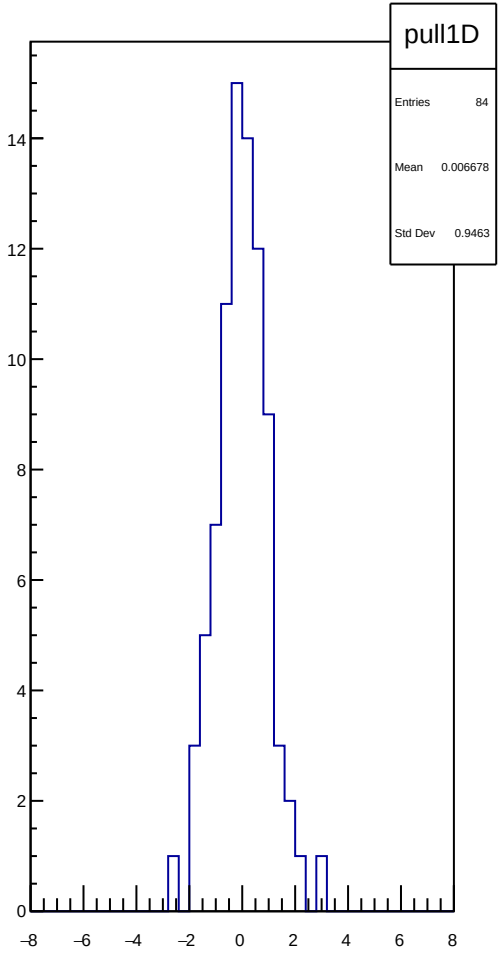

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

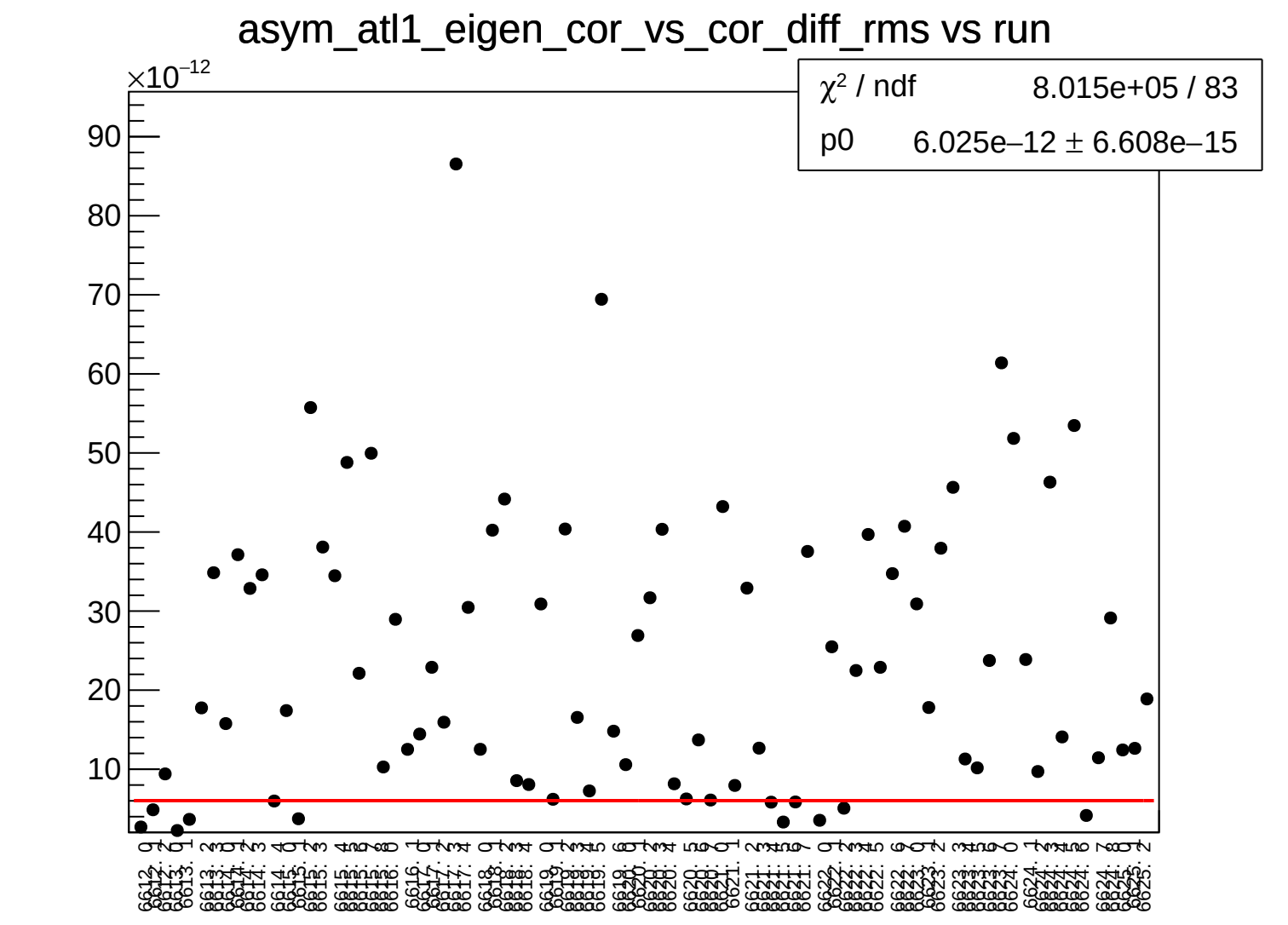

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

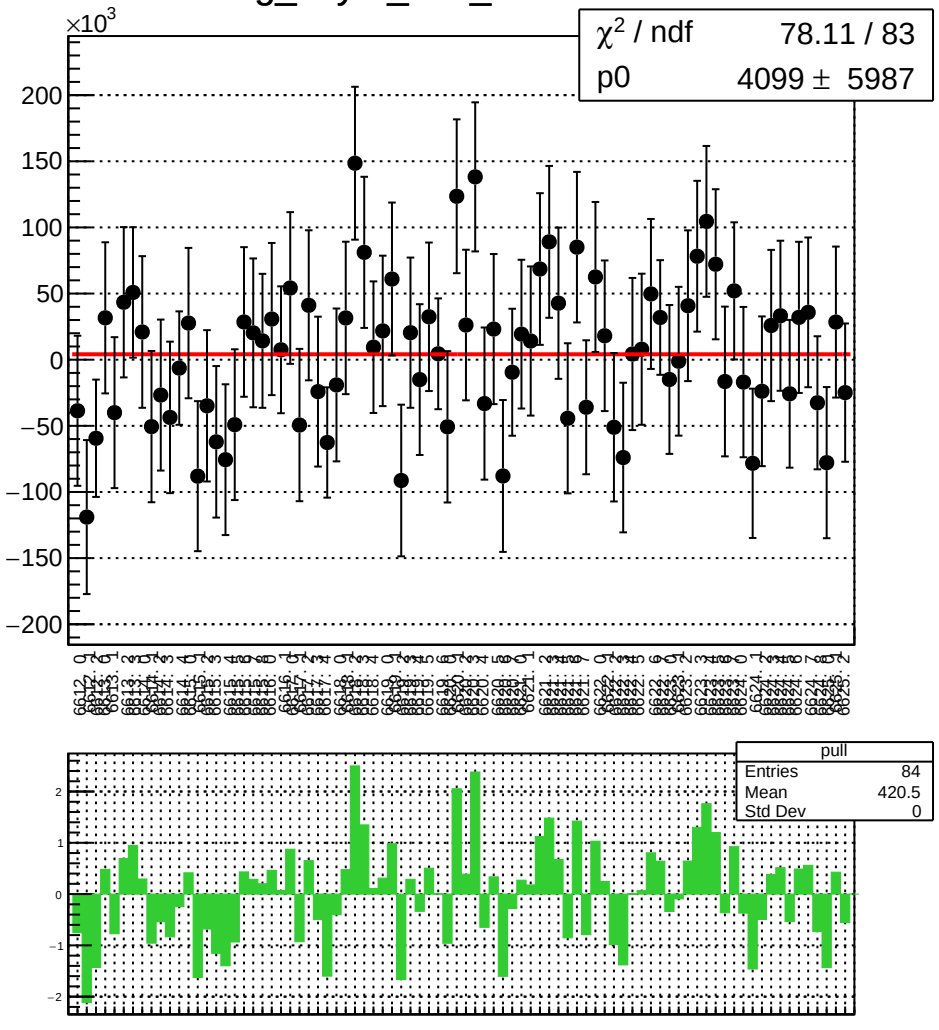

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

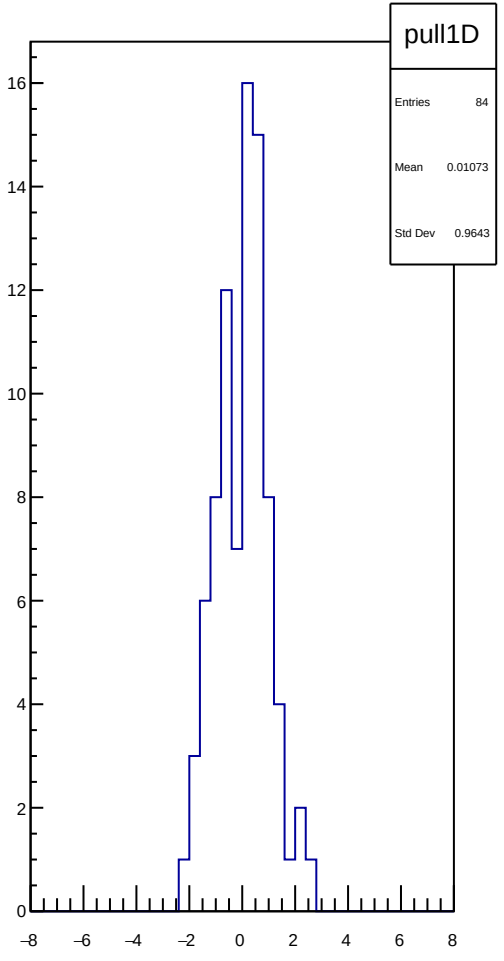

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

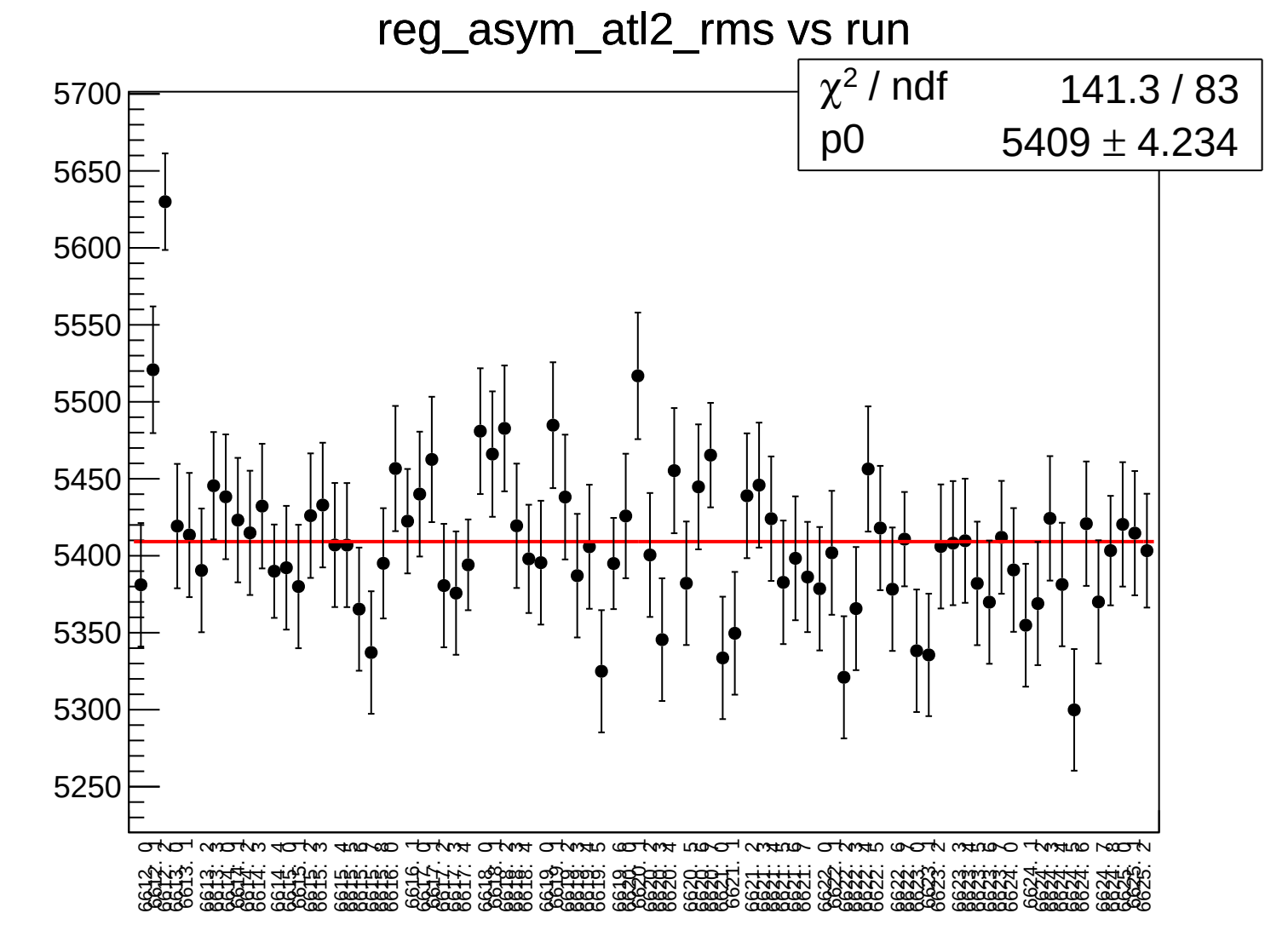

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 75.22 / 83
p0 −1.263e−14 ± 9.346e−15
pull
Entries 84
Mean −89.47
Std Dev 0

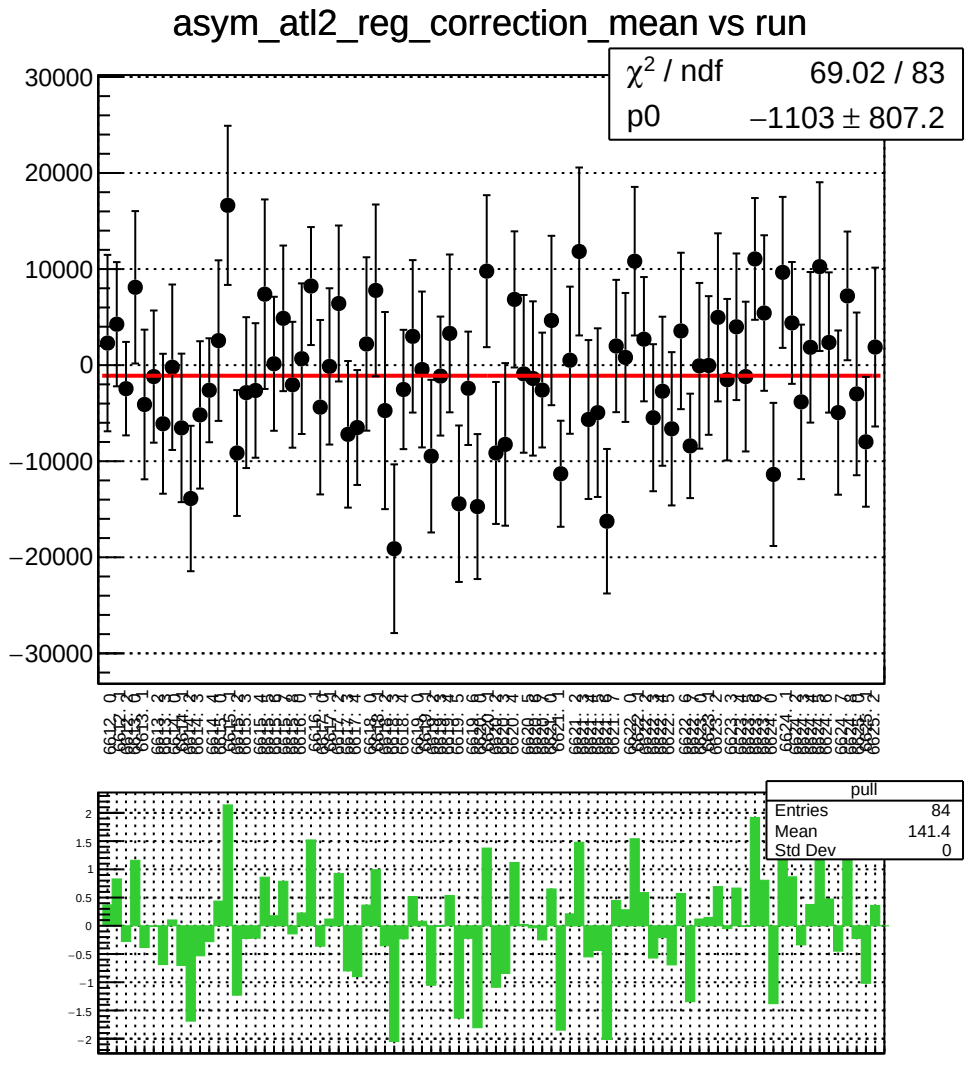

pull1D
Entries 84
Mean 0.006678
Std Dev 0.9463

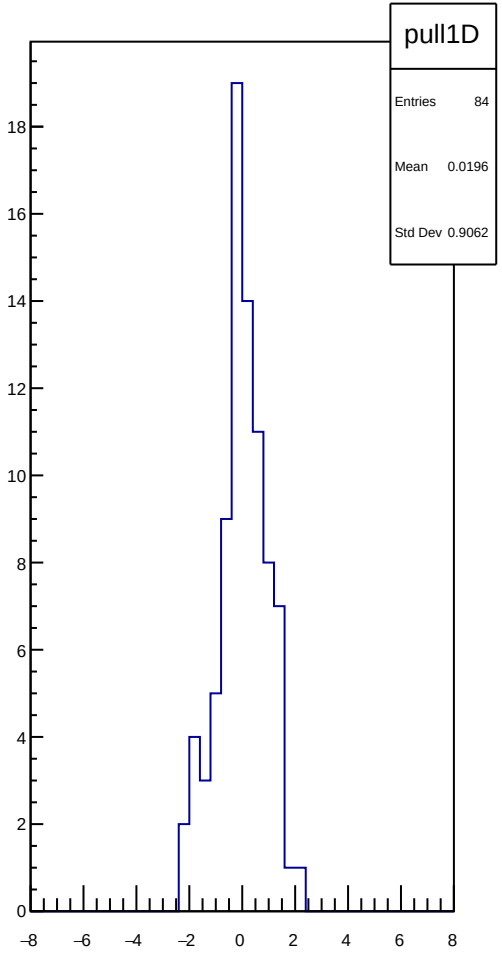

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.015e+05 / 83
p0 6.025e−12 ± 6.608e−15
90
80
70
60
50
40
30
20
10

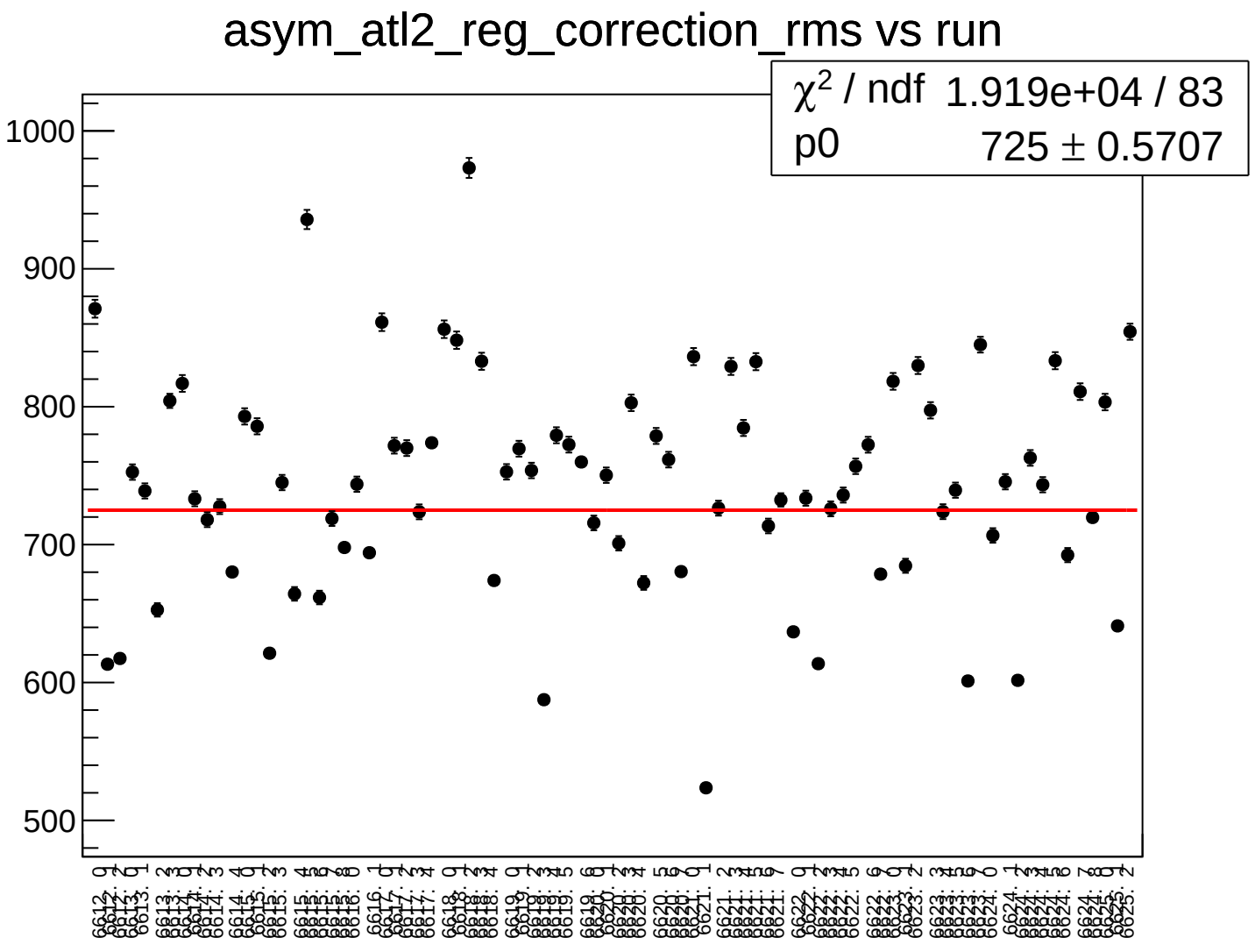

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 78.11 / 83
p0 4099 ± 5987
pull
Entries 84
Mean 420.5
Std Dev 0

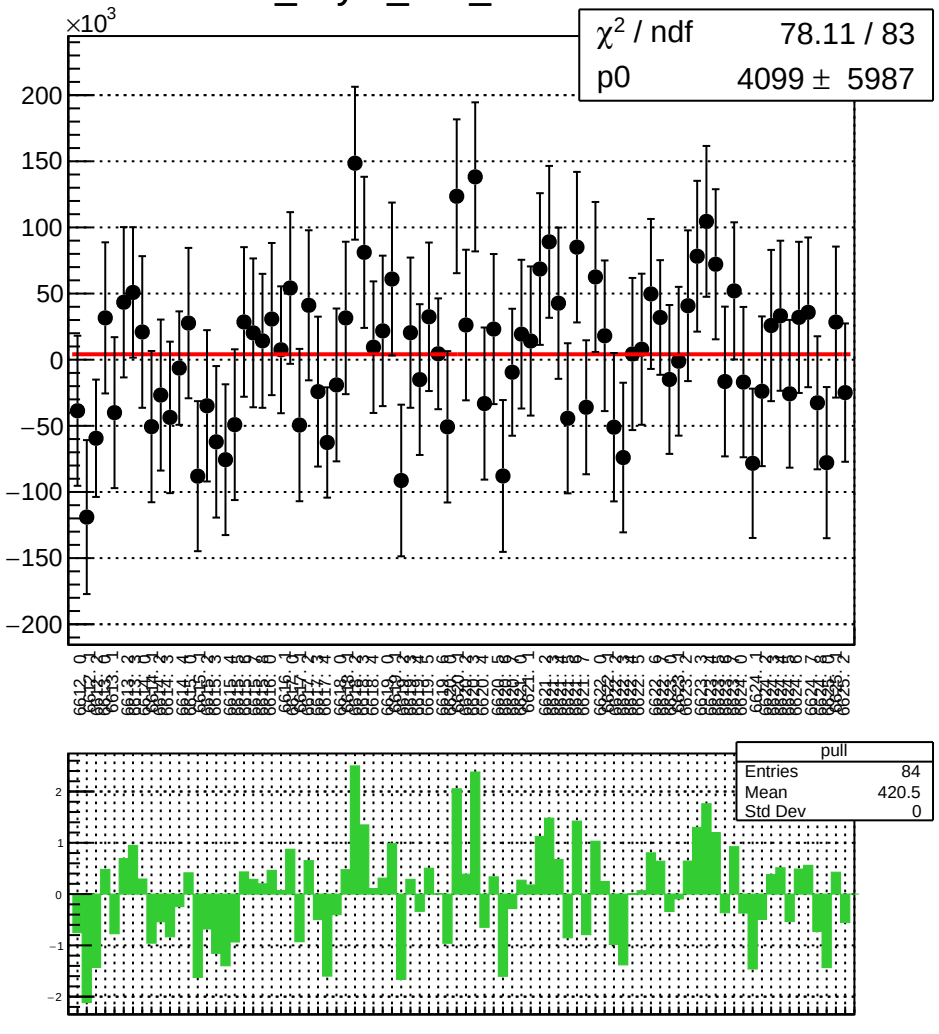

pull1D
Entries 84
Mean 0.01073
Std Dev 0.9643

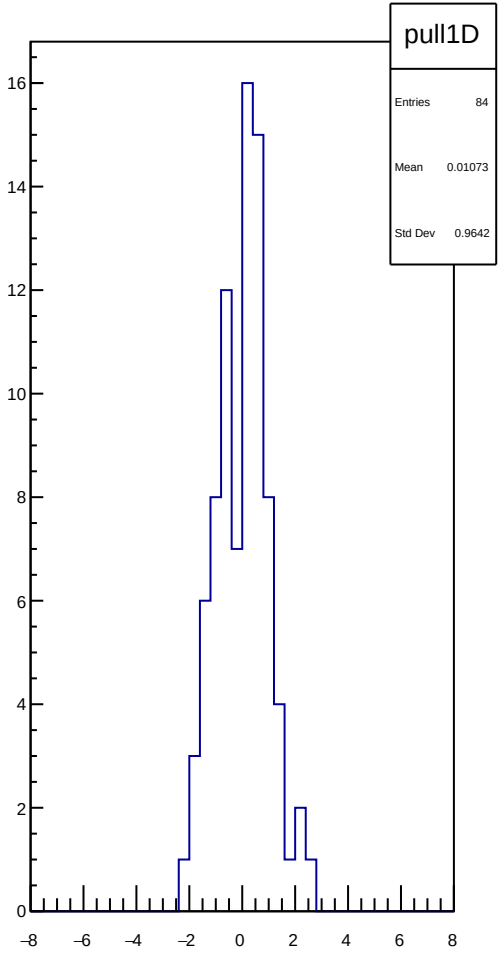

reg_asym_atl2_rms vs run
χ² / ndf 141.3 / 83
p0 5409 ± 4.234
5700
5650
5600
5550
5500
5450
5400
5350
5300
5250

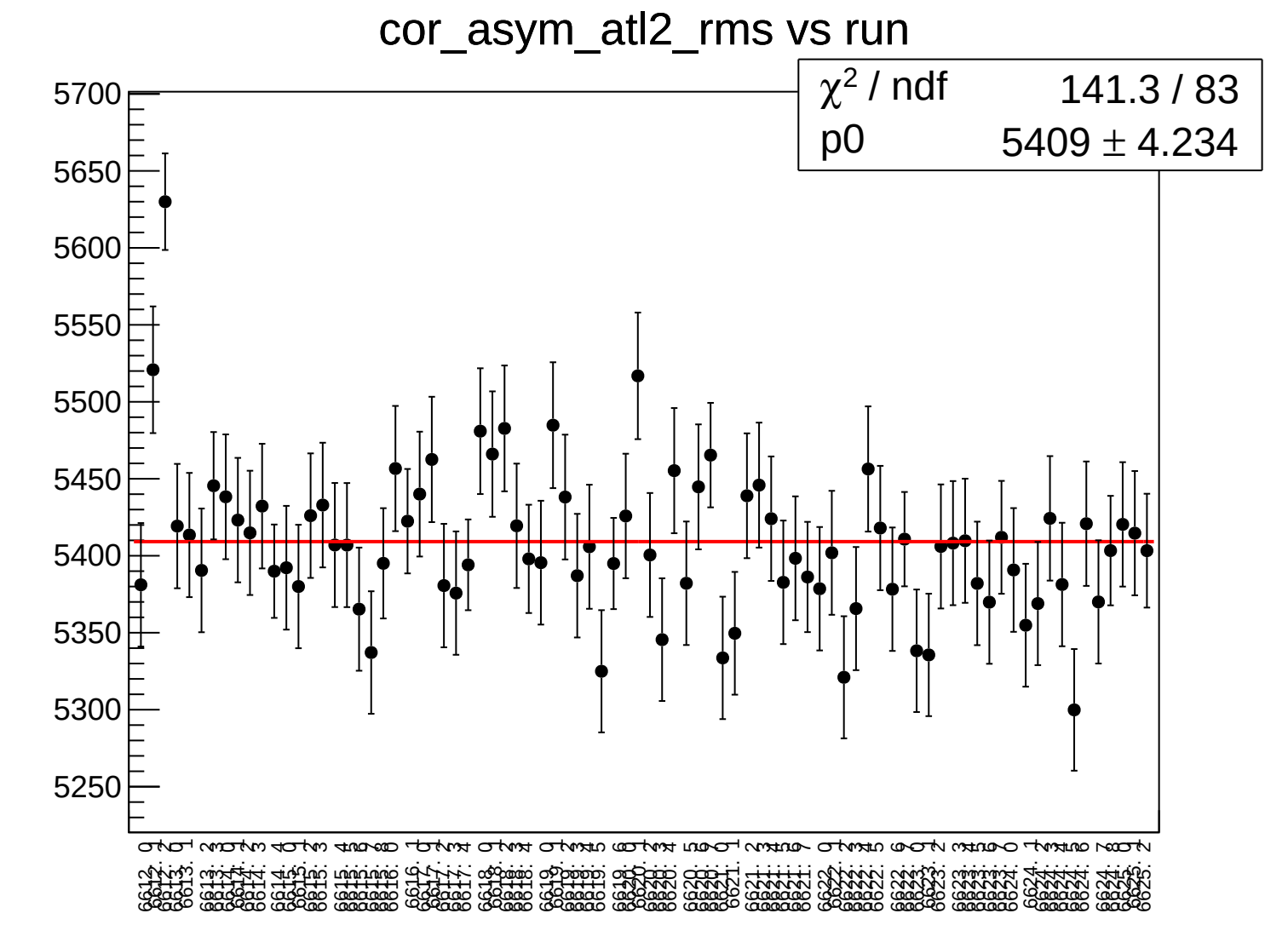

asym_atl2_reg_correction_mean vs run
χ² / ndf 69.02 / 83
p0 −1103 ± 807.2
pull
Entries 84
Mean 141.4
Std Dev 0

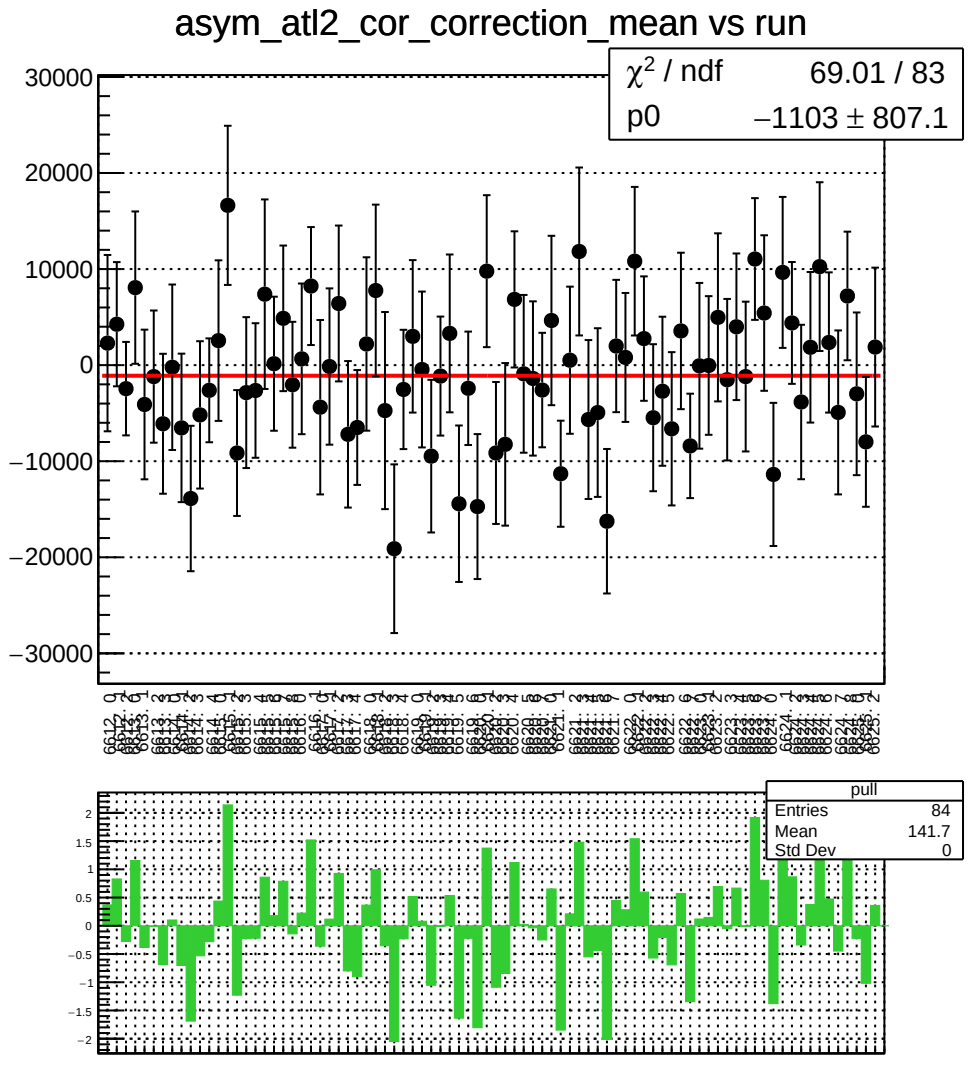

pull1D
Entries 84
Mean 0.0196
Std Dev 0.9062

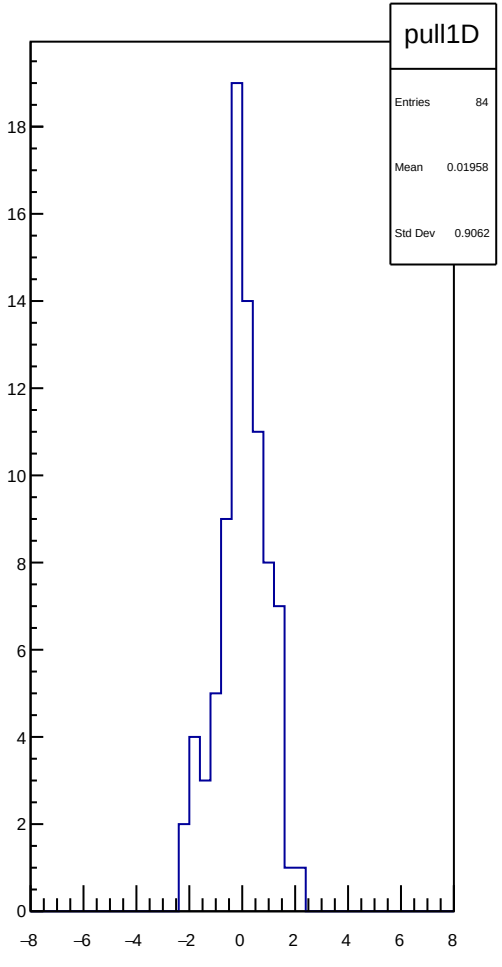

asym_atl2_reg_correction_rms vs run
χ² / ndf 1.919e+04 / 83
p0 725 ± 0.5707
1000
900
800
700
600
500

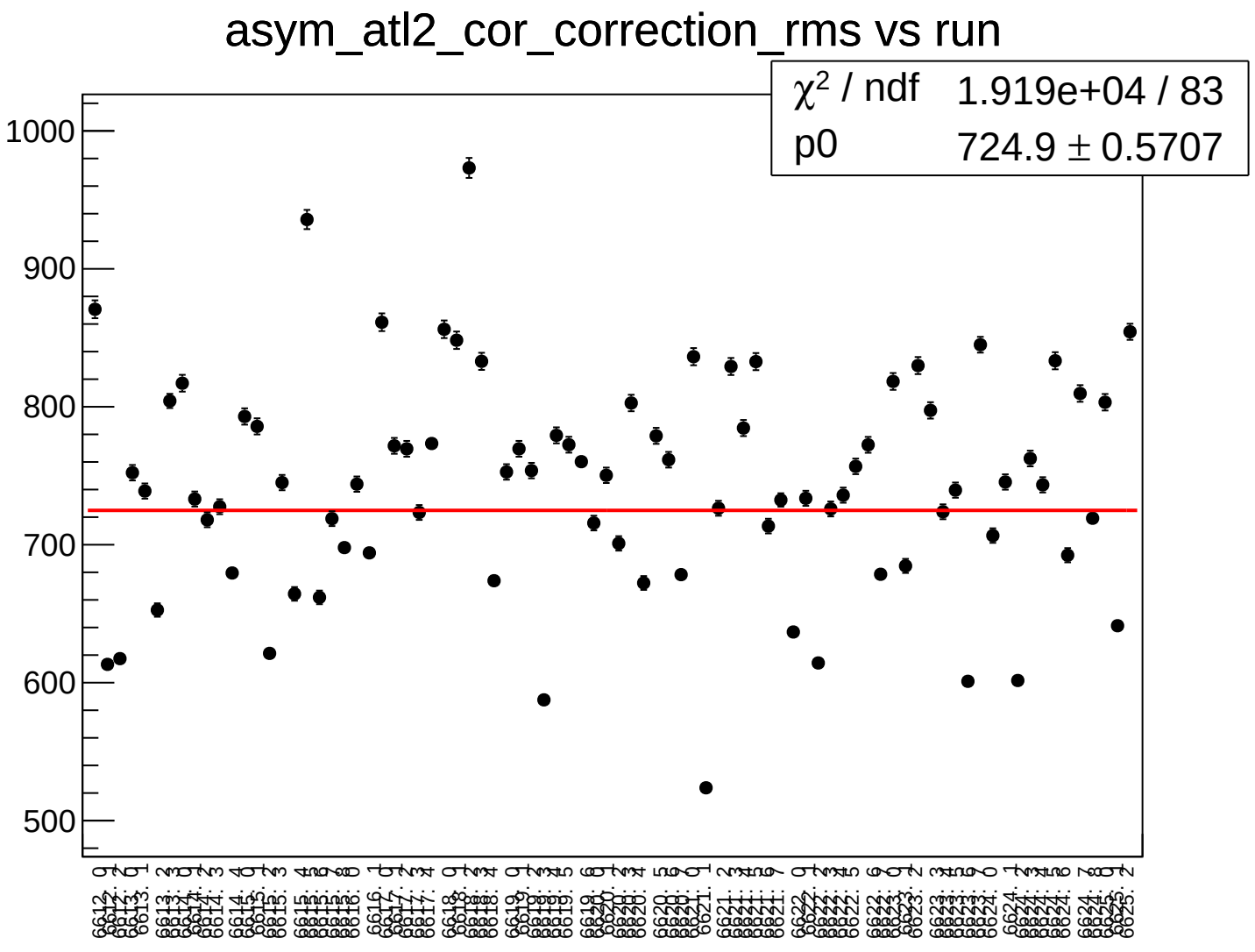

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 78.11 / 83
p0 4099 ± 5987
pull
Entries 84
Mean 420.5
Std Dev 0

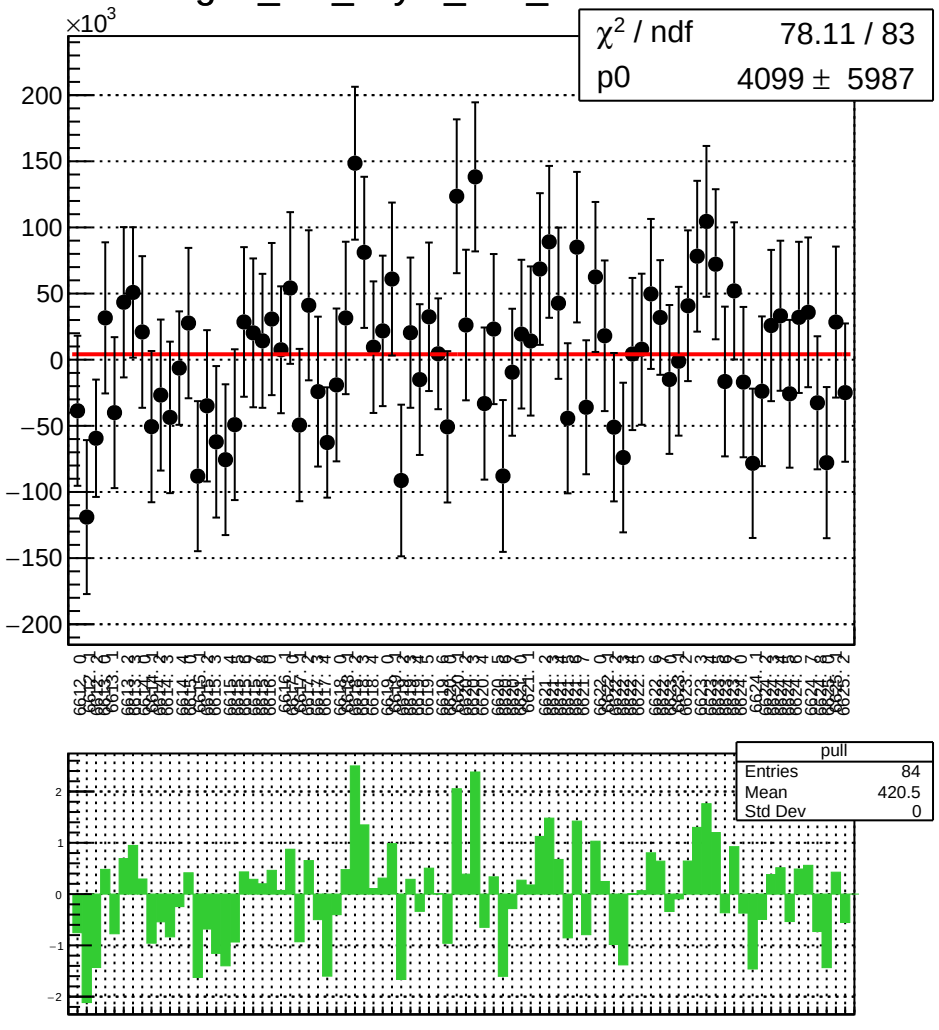

pull1D
Entries 84
Mean 0.01073
Std Dev 0.9642

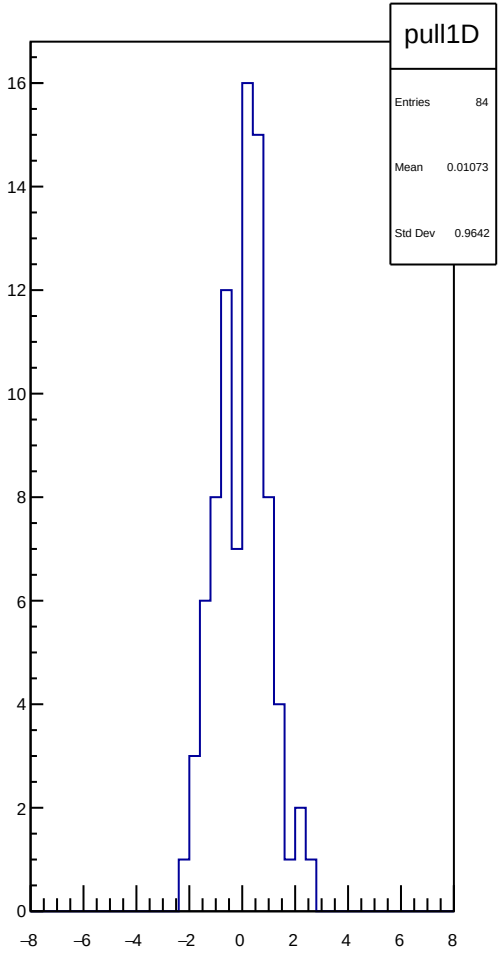

cor_asym_atl2_rms vs run
χ^2 / ndf 141.3 / 83
p0 5409 ± 4.234
5700
5650
5600
5550
5500
5450
5400
5350
5300
5250

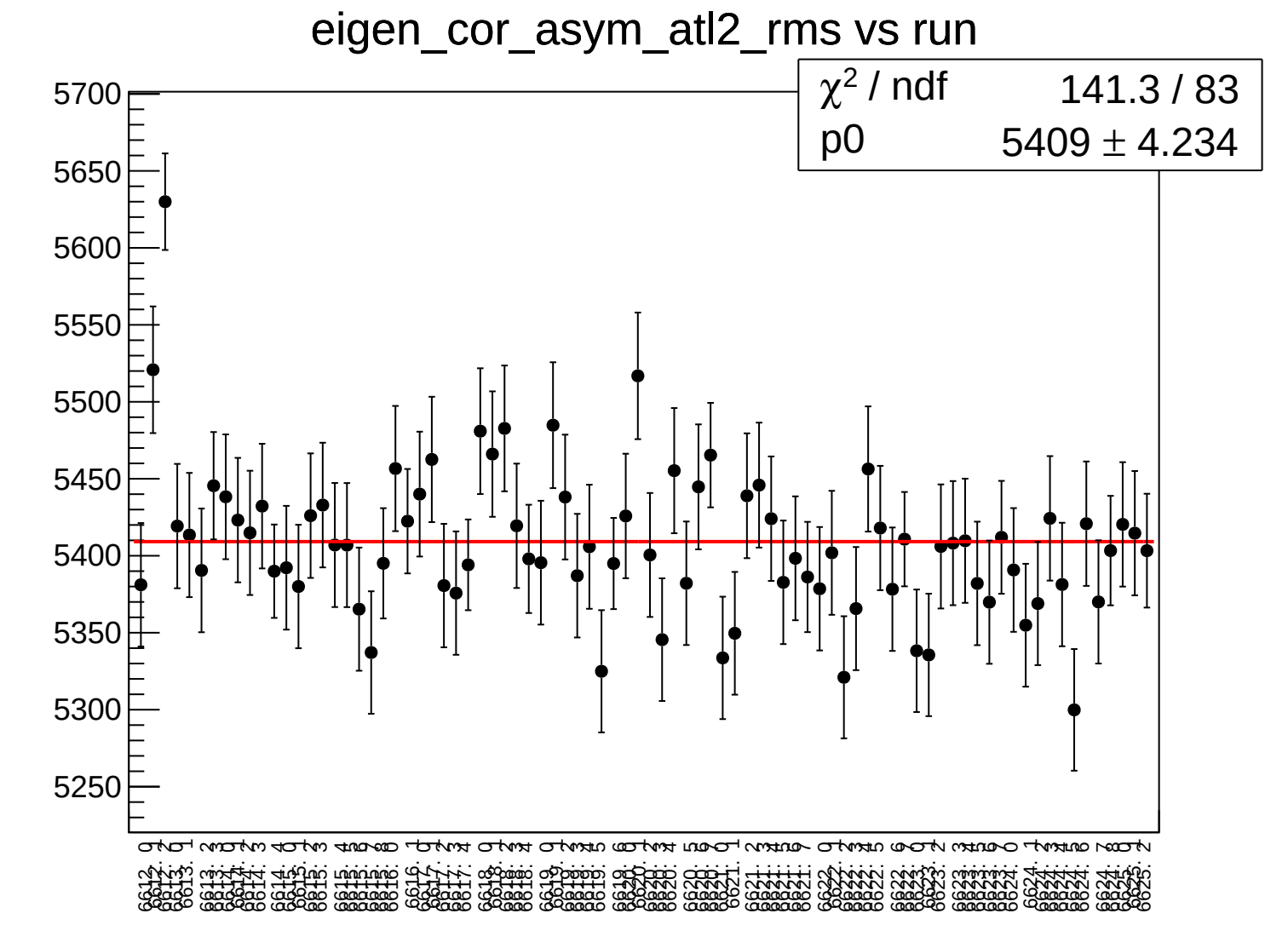

asym_atl2_cor_correction_mean vs run
χ² / ndf 69.01 / 83
p0 −1103 ± 807.1
pull
Entries 84
Mean 141.7
Std Dev 0

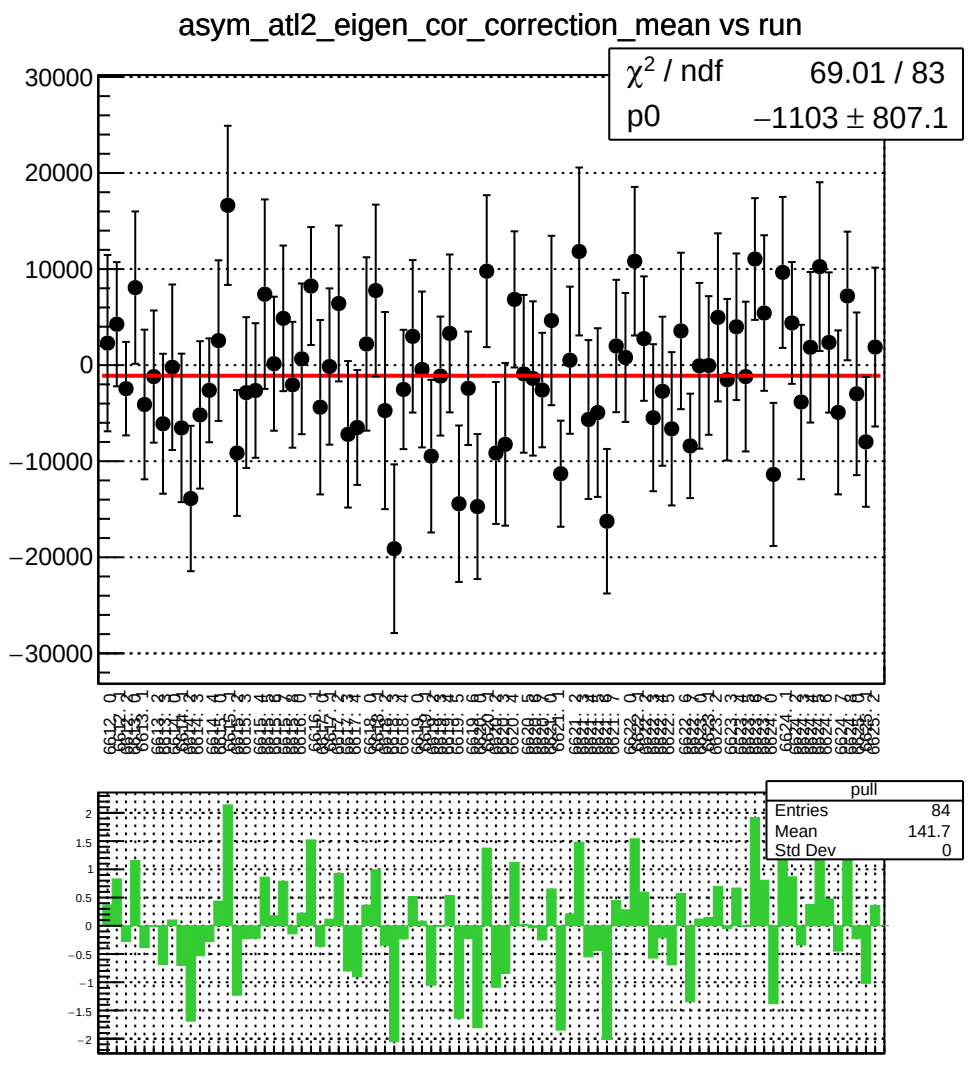

pull1D
Entries 84
Mean 0.01958
Std Dev 0.9062

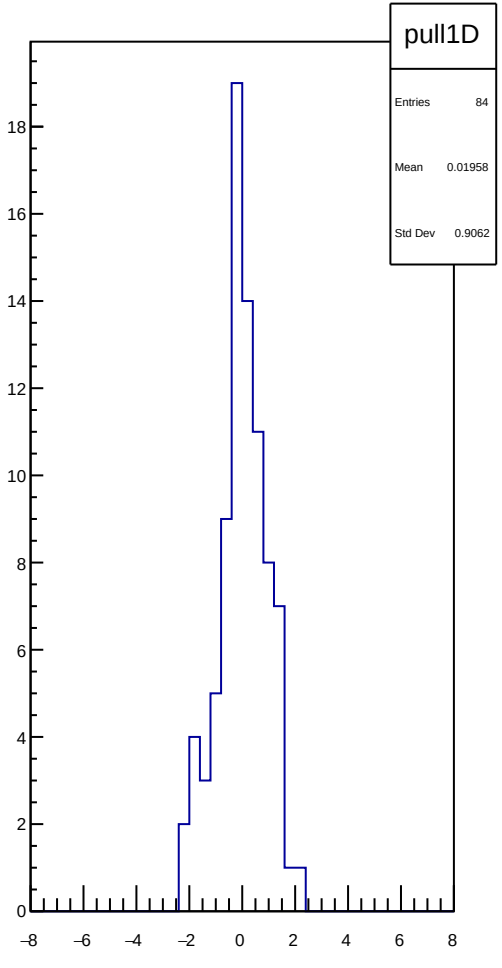

asym_atl2_cor_correction_rms vs run
χ² / ndf 1.919e+04 / 83
p0 724.9 ± 0.5707
1000
900
800
700
600
500

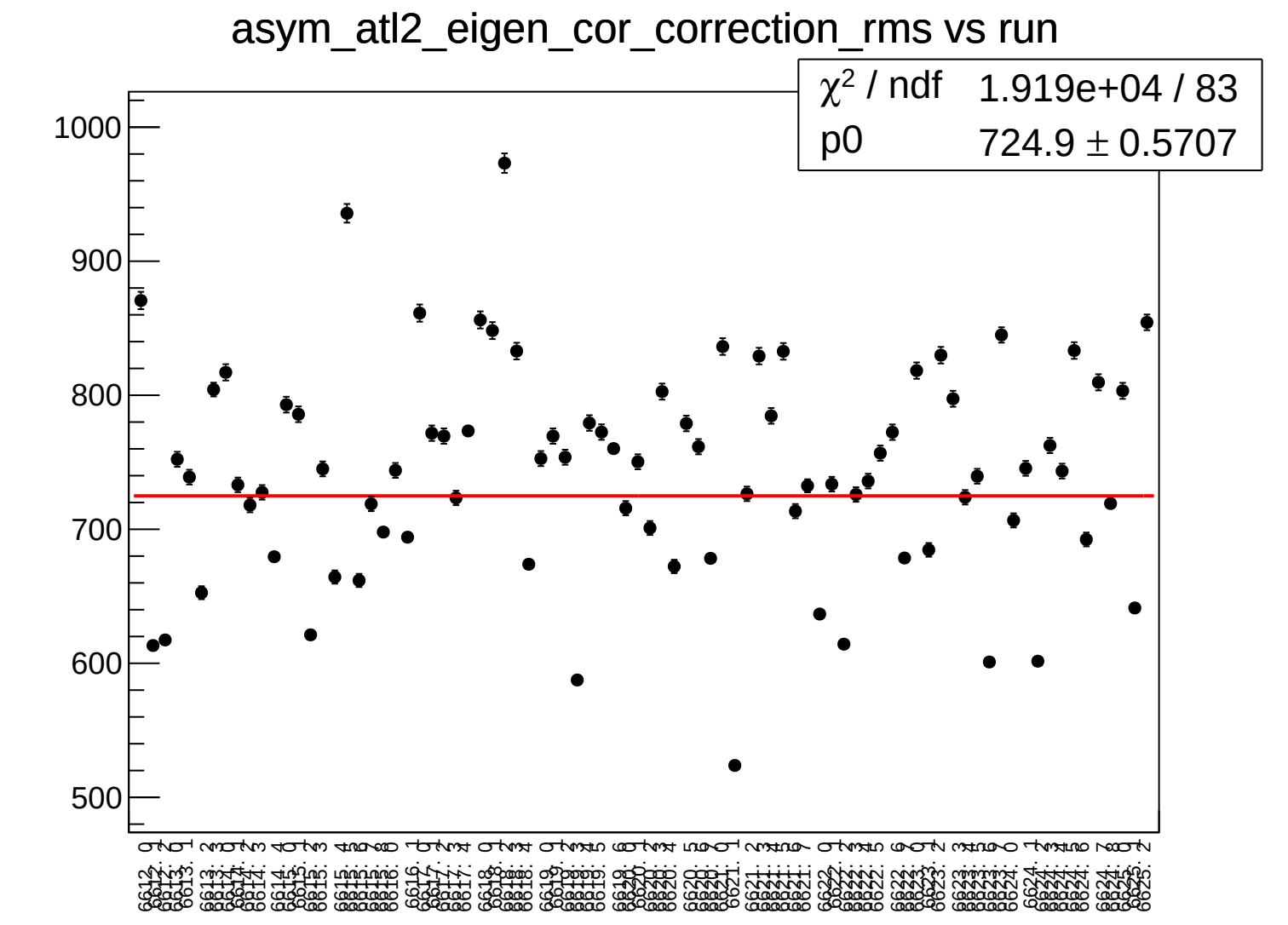

eigen_cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 78.11 / 83
p0 4099 ± 5987
pull
Entries 84
Mean 420.5
Std Dev 0

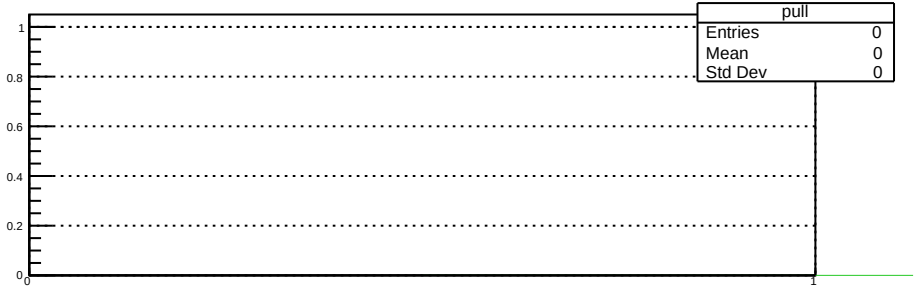

pull1D
Entries 84
Mean 0.01073
Std Dev 0.9642

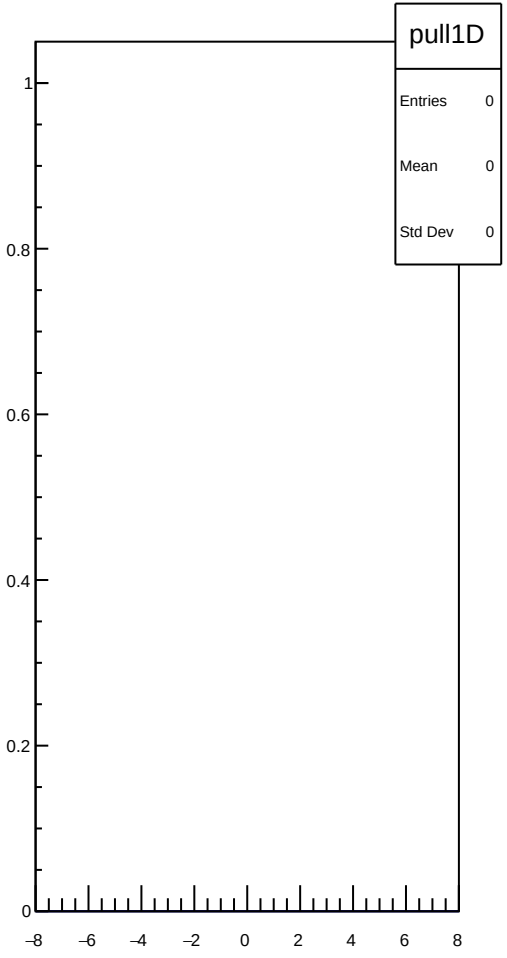

eigen_cor_asym_atl2_rms vs run
χ² / ndf 141.3 / 83
p0 5409 ± 4.234
5700
5650
5600
5550
5500
5450
5400
5350
5300
5250

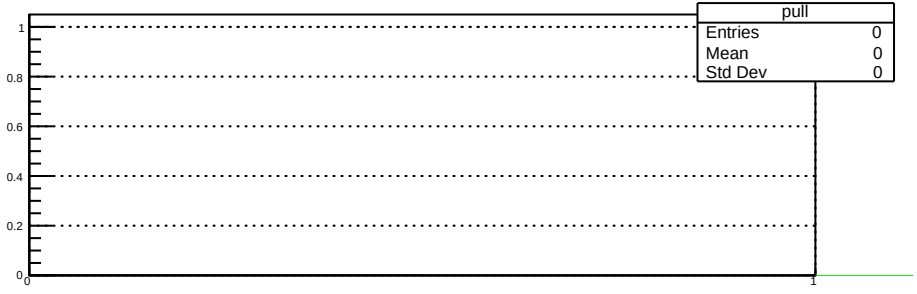

asym_atl2_eigen_cor_correction_mean vs run
χ^2 / ndf 69.01 / 83
p0 −1103 ± 807.1
pull
Entries 84
Mean 141.7
Std Dev 0

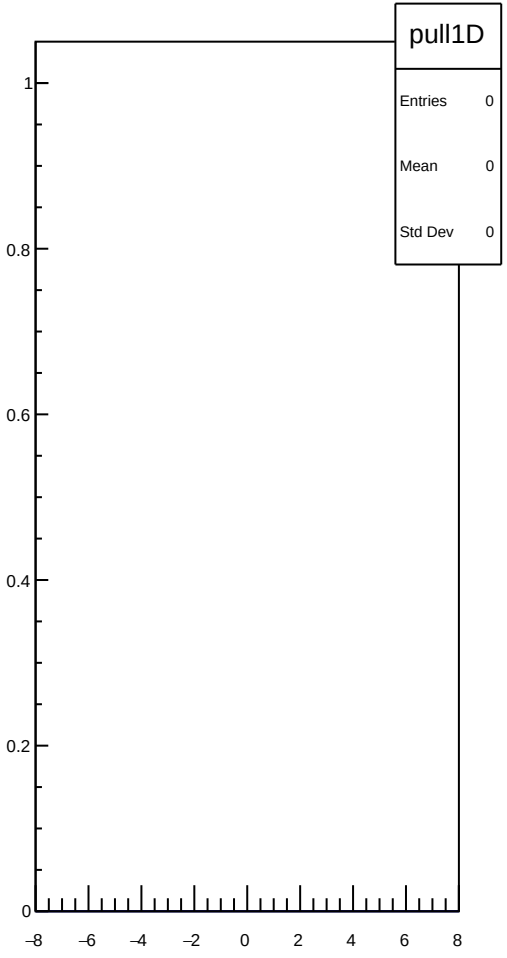

pull1D
Entries 84
Mean 0.01958
Std Dev 0.9062

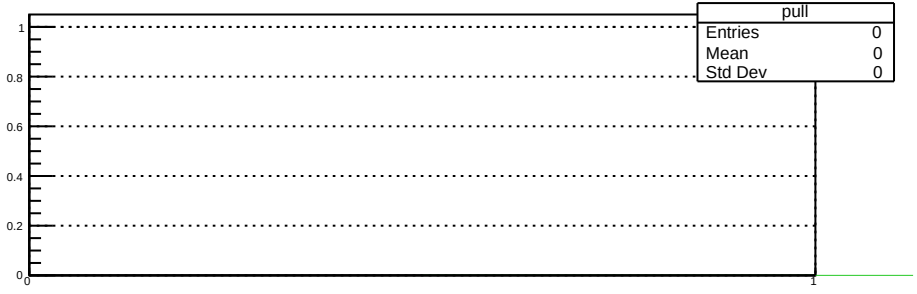

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1.919e+04 / 83
p0 724.9 ± 0.5707
1000
900
800
700
600
500

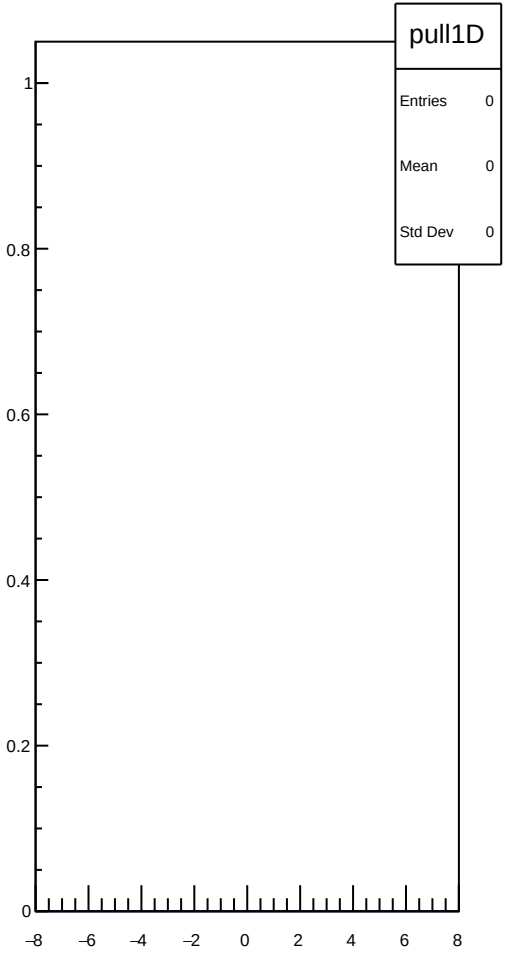

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

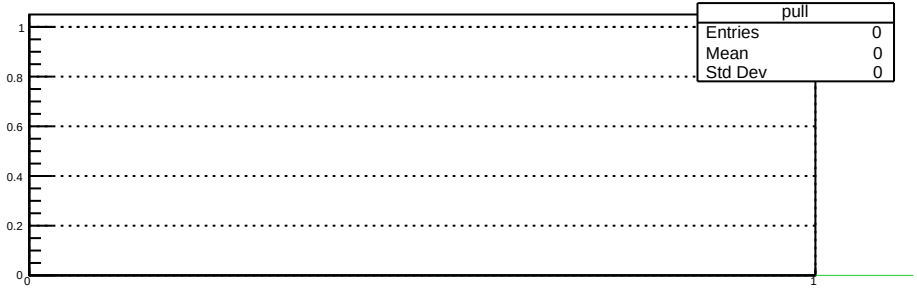

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

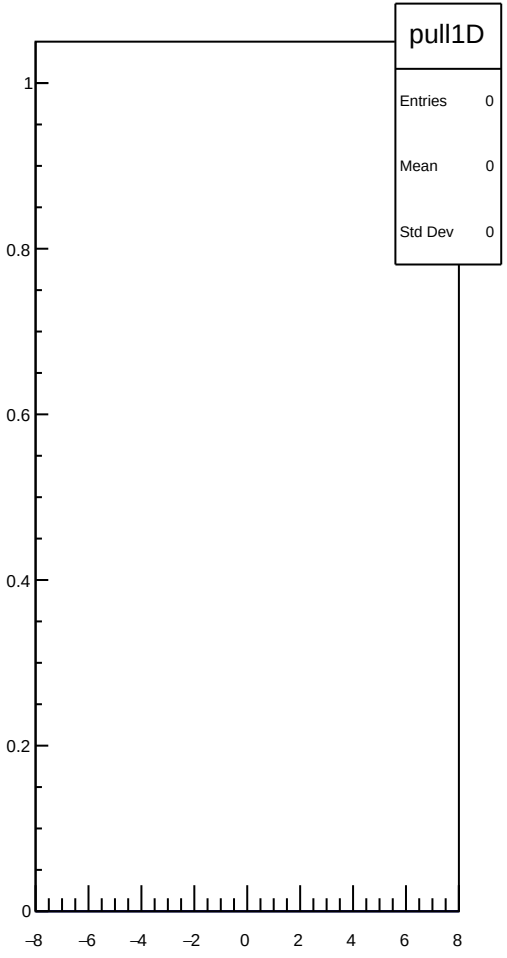

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

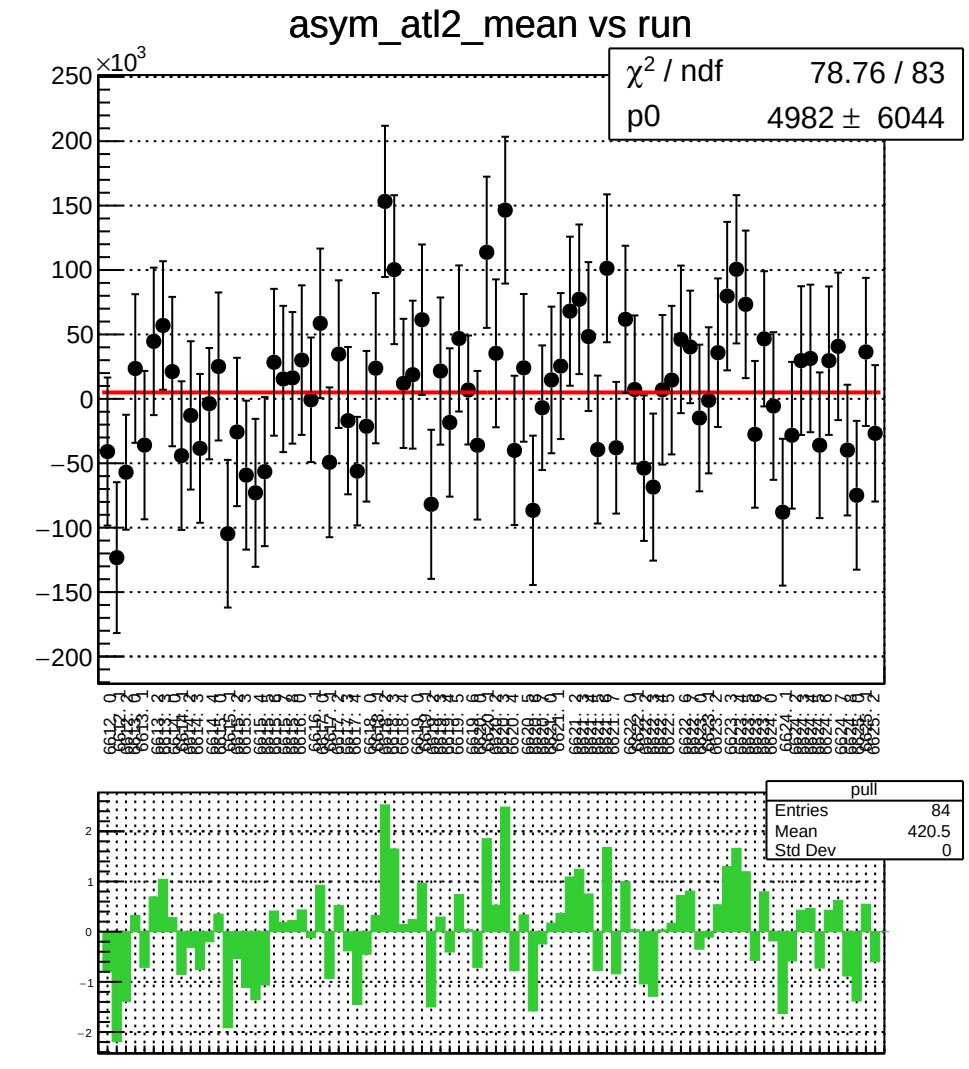

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

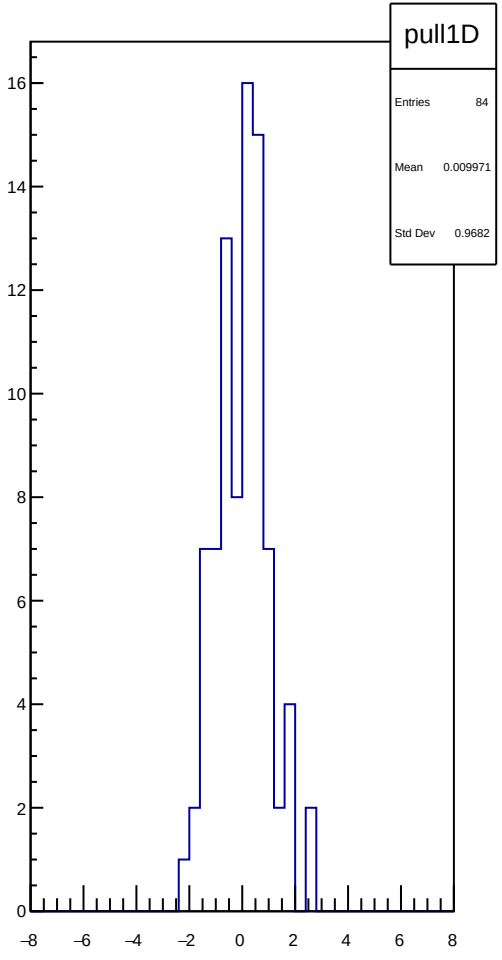

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

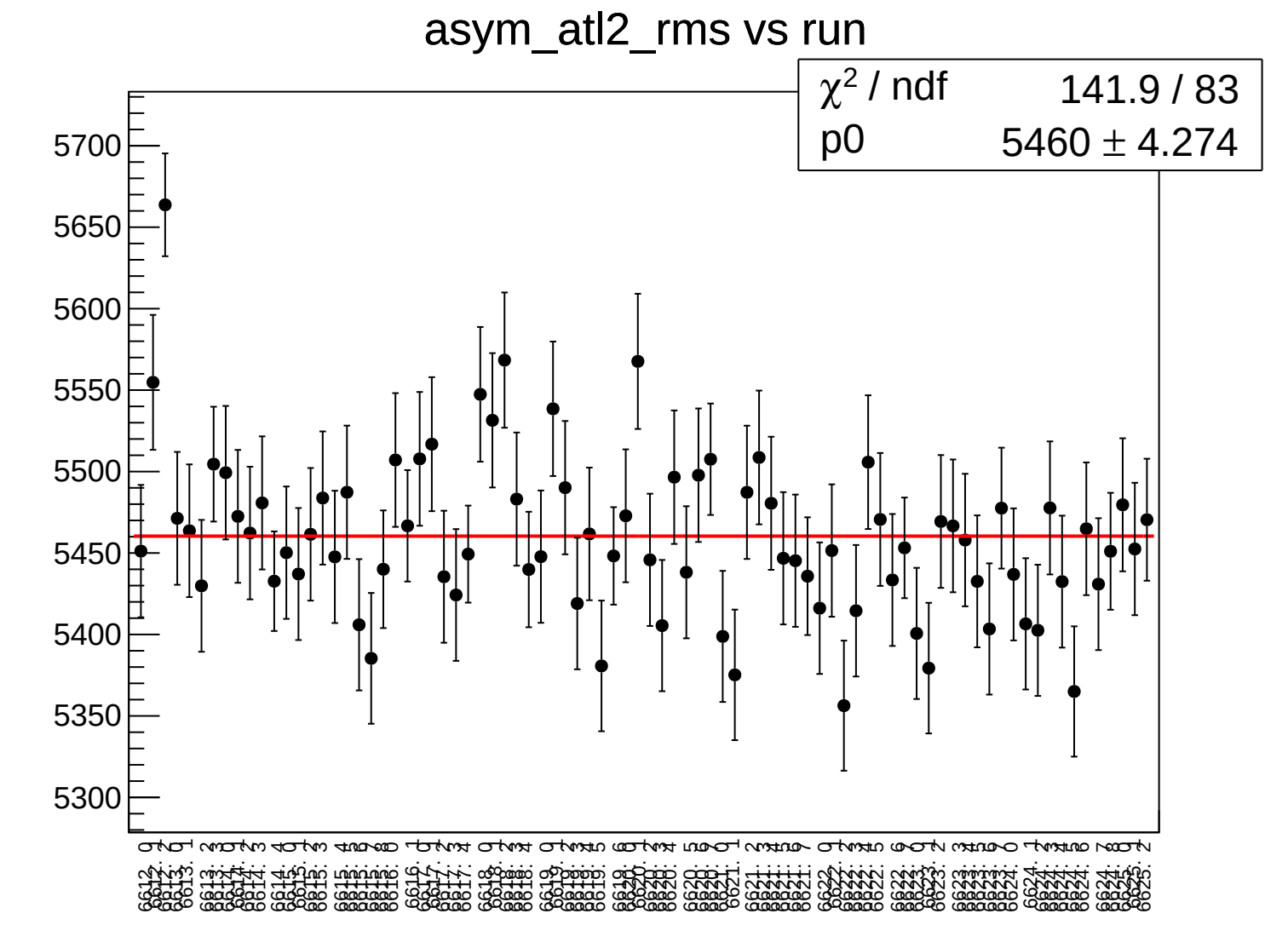

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

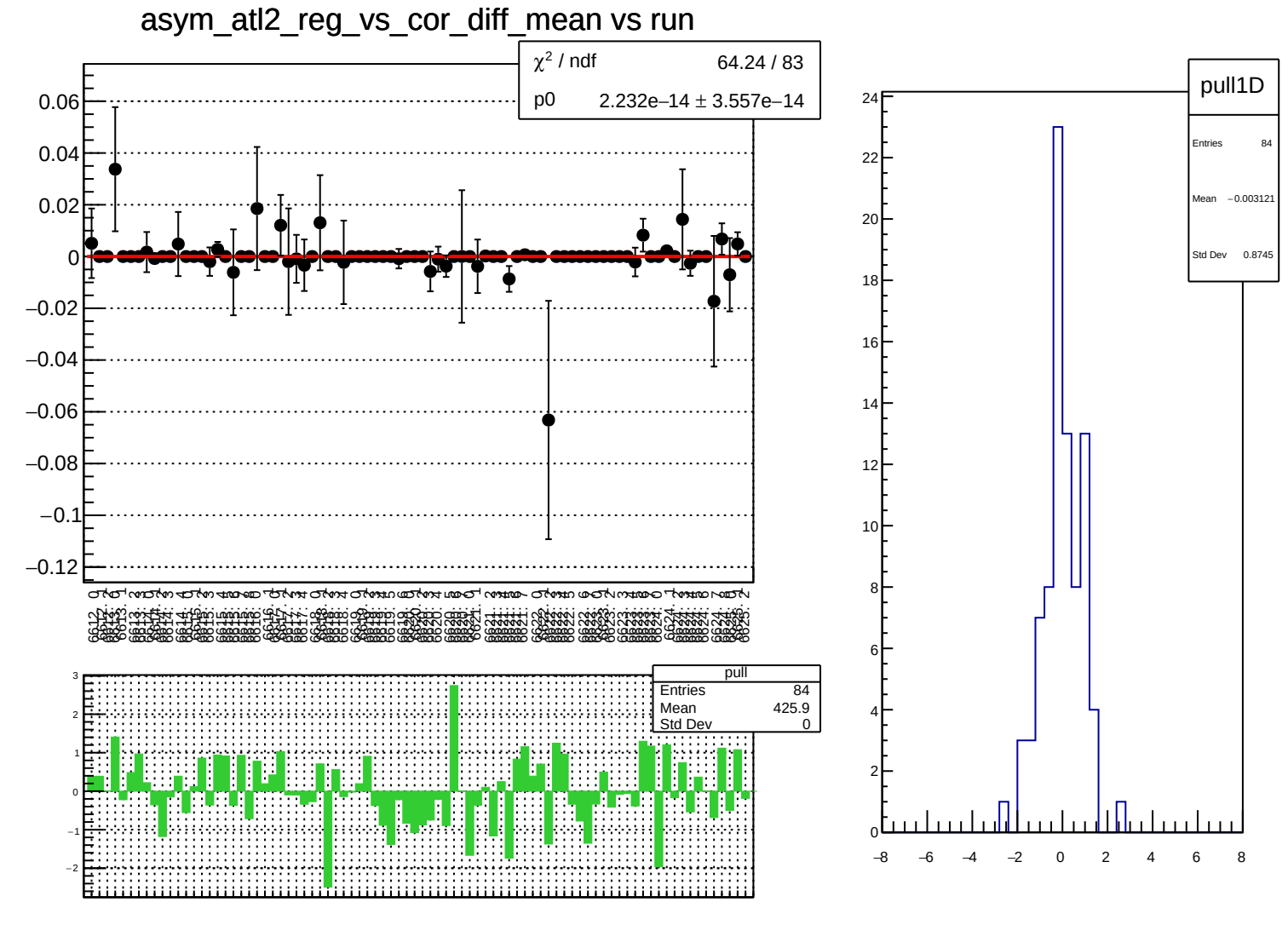

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

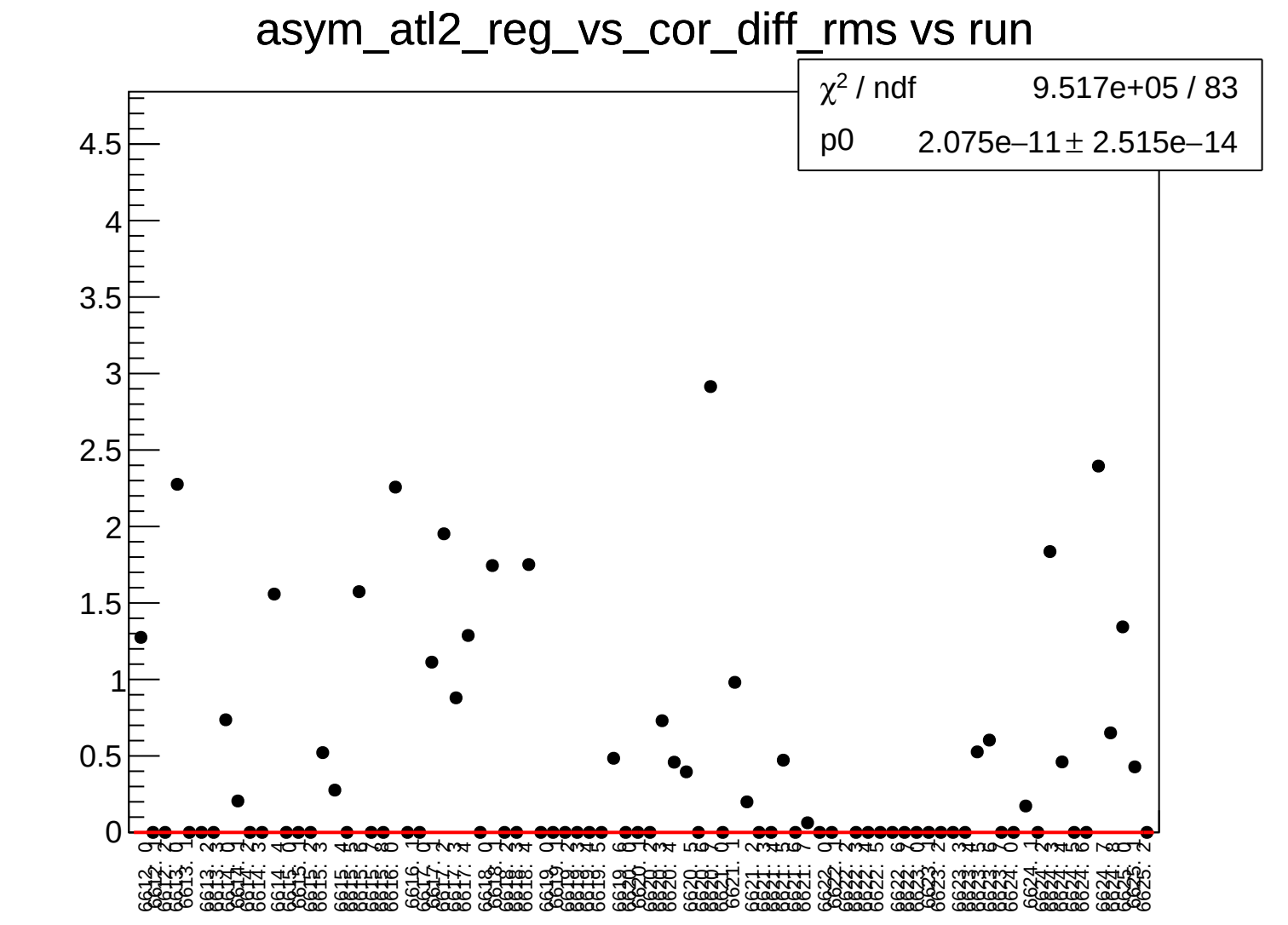

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

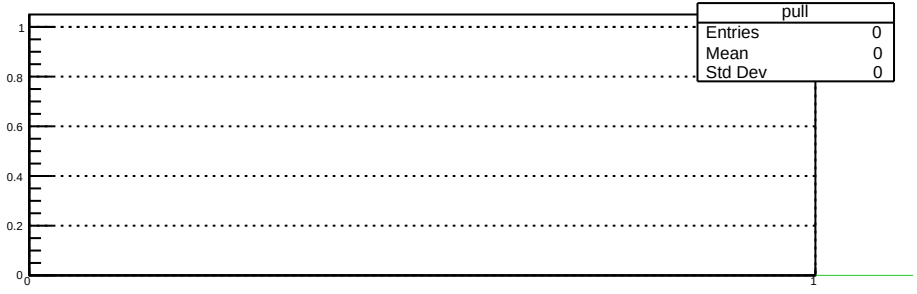

asym_atl2_mean vs run
χ² / ndf 78.76 / 83
p0 4982 ± 6044
×10³
pull
Entries 84
Mean 420.5
Std Dev 0

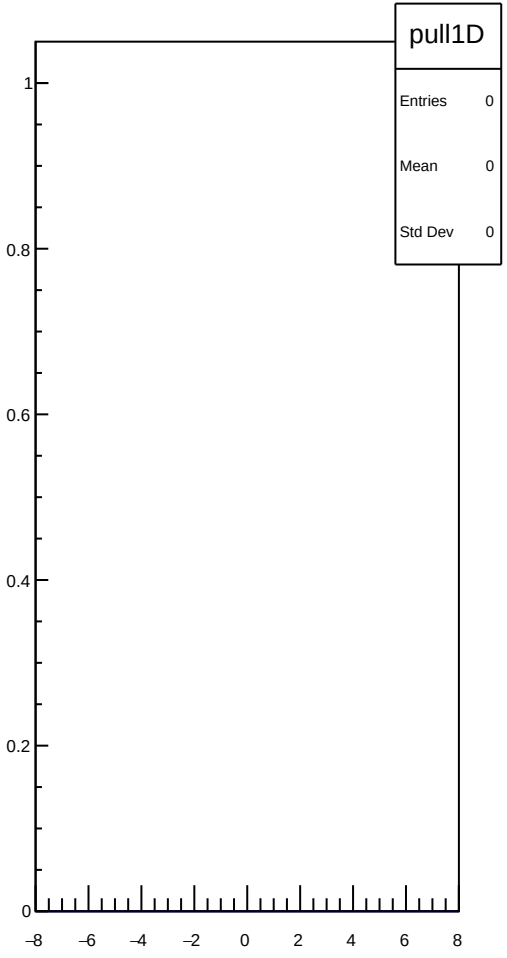

pull1D
Entries 84
Mean 0.009971
Std Dev 0.9682

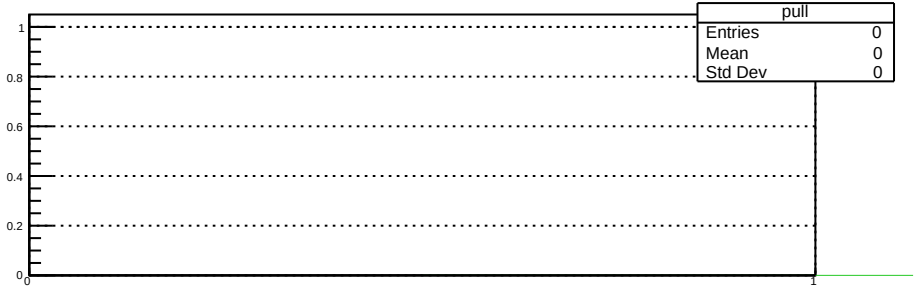

asym_atl2_rms vs run
χ^2 / ndf 141.9 / 83
p0 5460 ± 4.274
5700
5650
5600
5550
5500
5450
5400
5350
5300

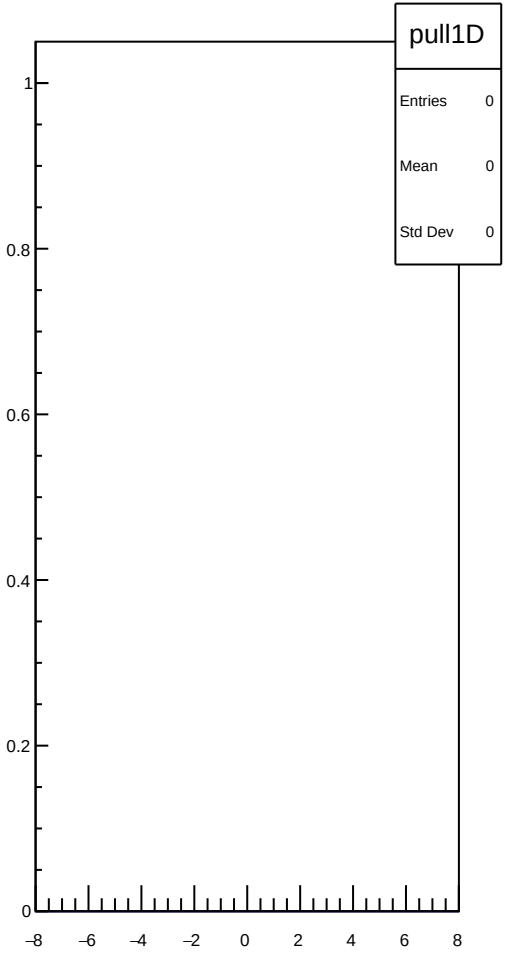

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 64.24 / 83
p0 2.232e−14 ± 3.557e−14
pull
Entries 84
Mean 425.9
Std Dev 0
pull1D
Entries 84
Mean −0.003121
Std Dev 0.8745

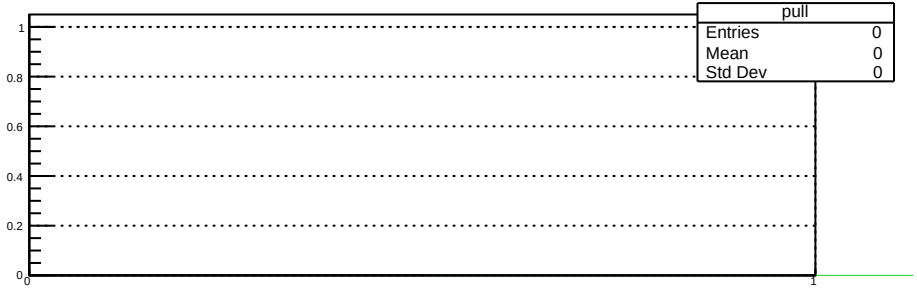

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.517e+05 / 83
p0 2.075e−11 ± 2.515e−14
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0

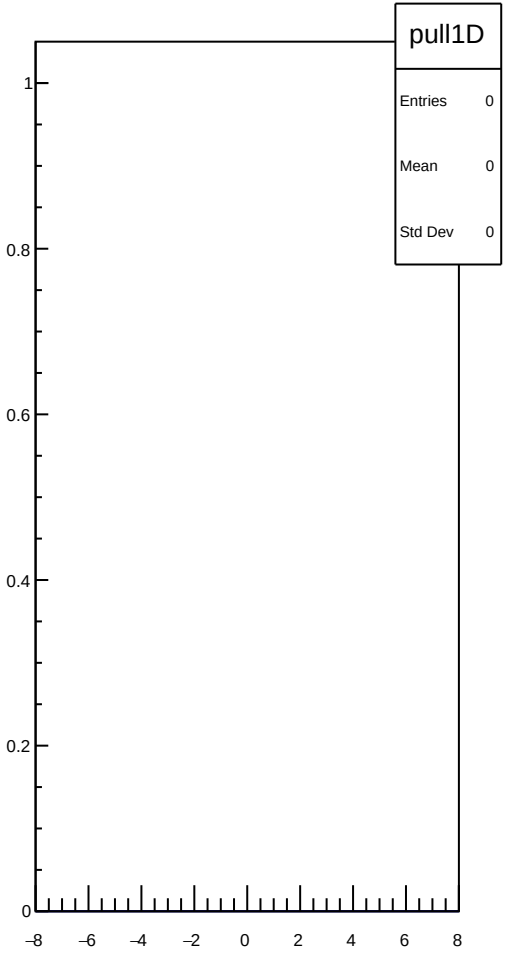

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

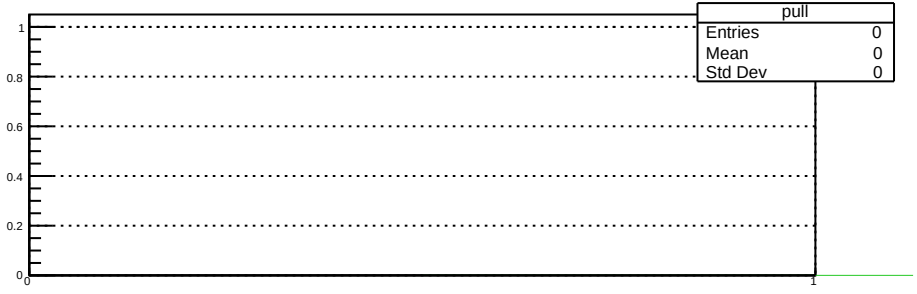

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

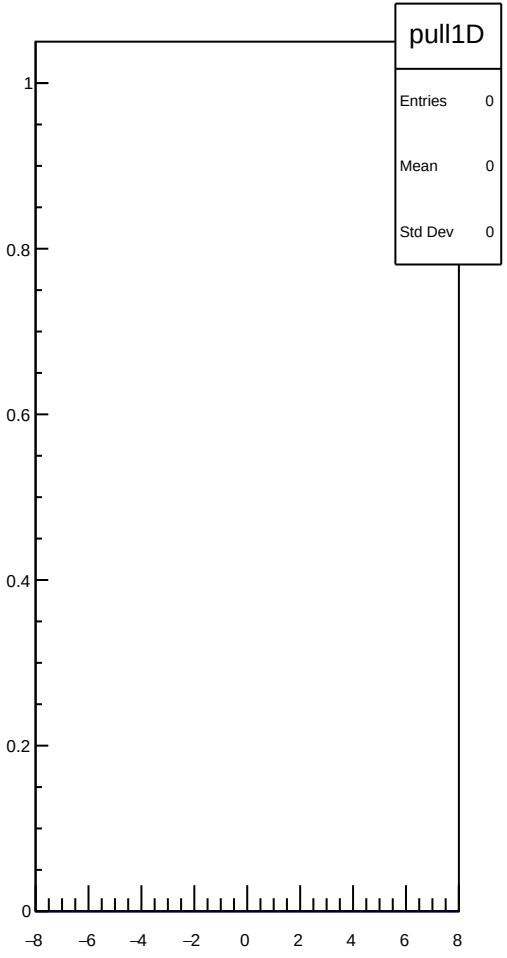

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

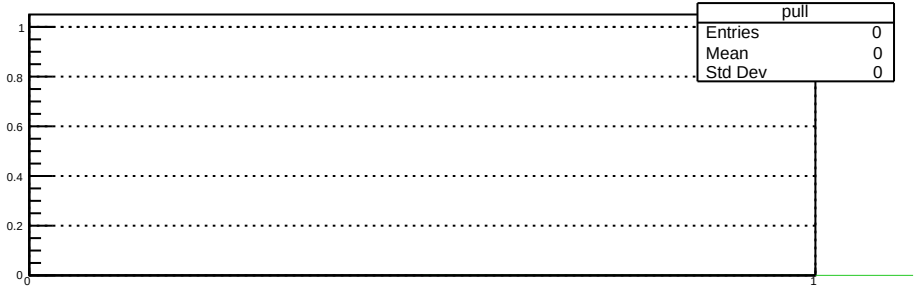

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

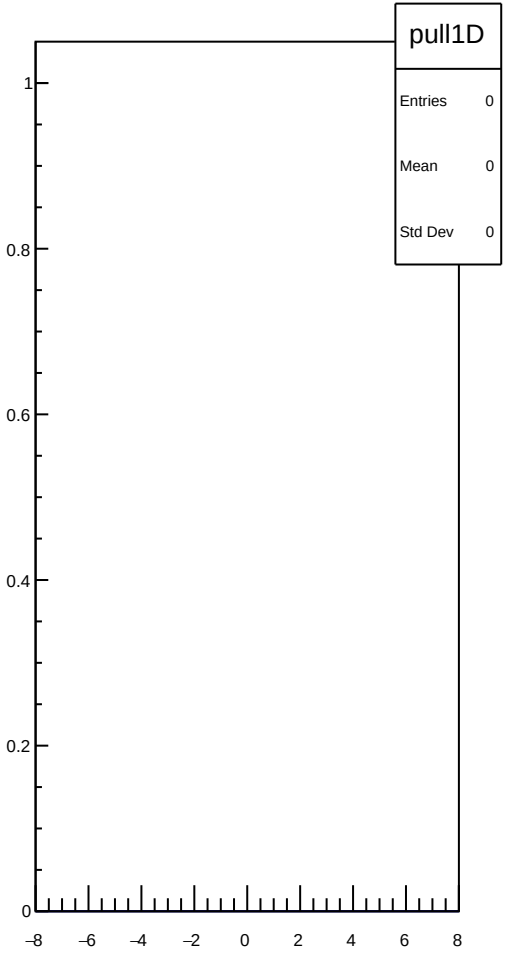

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

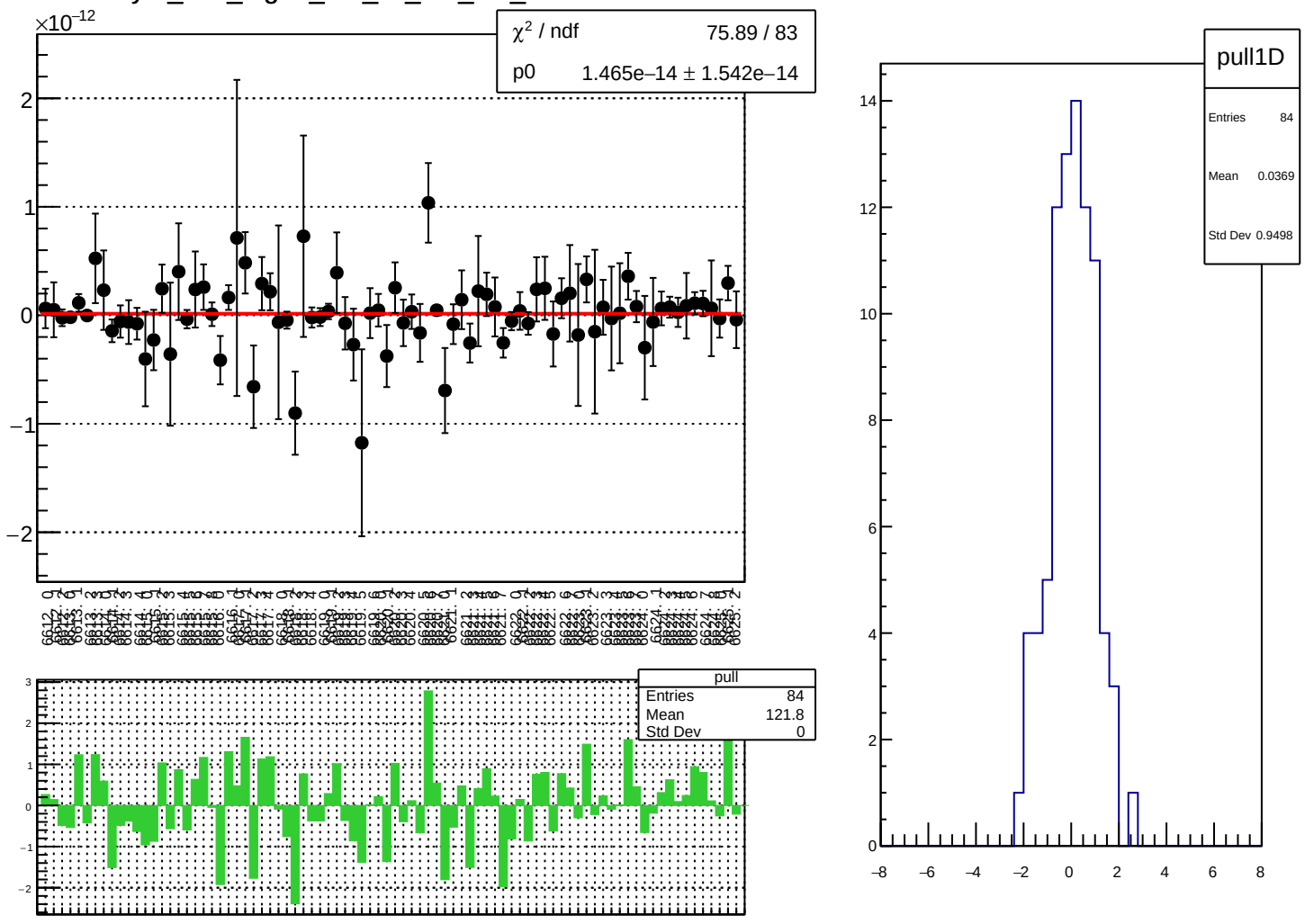

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

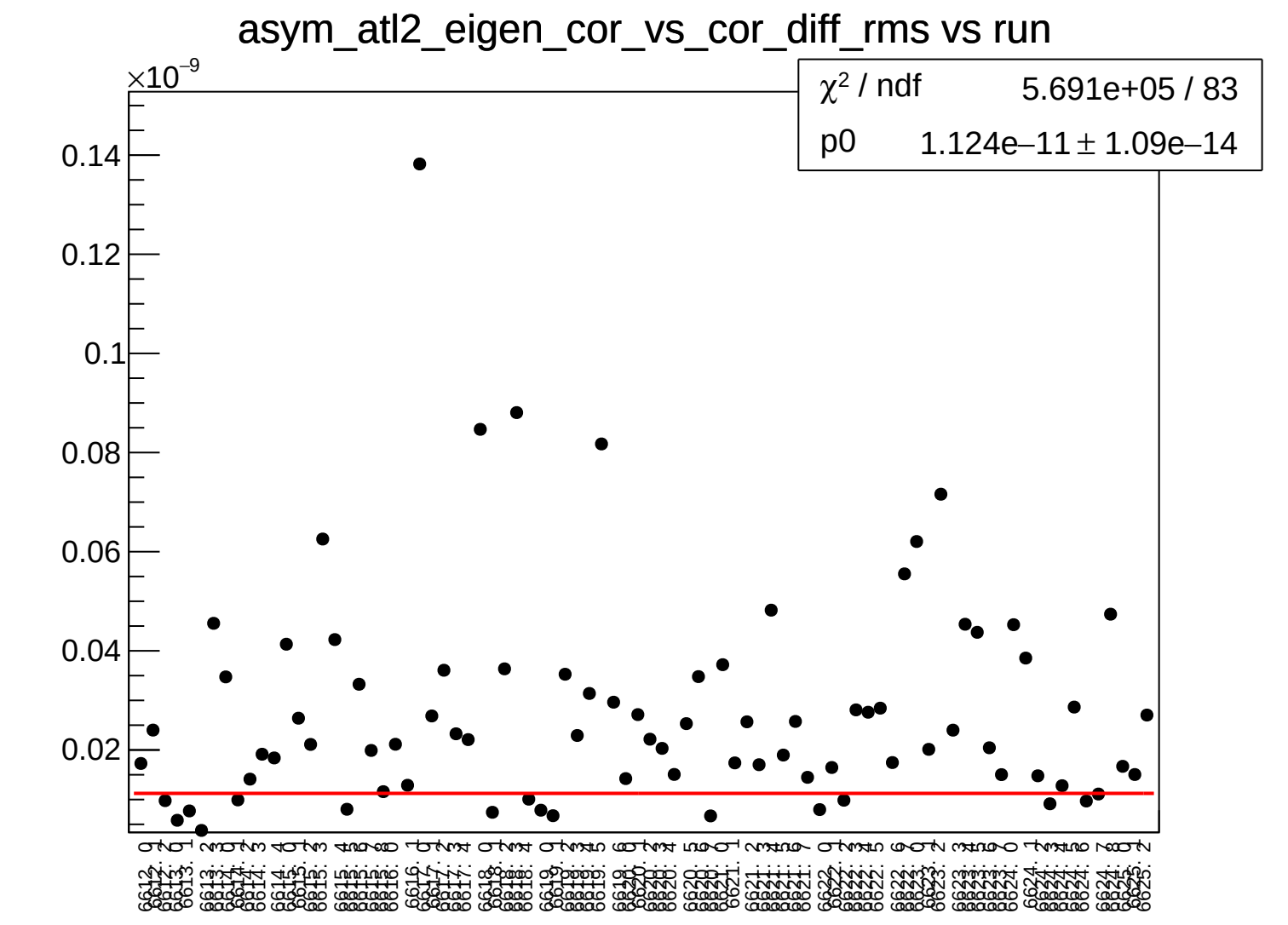

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

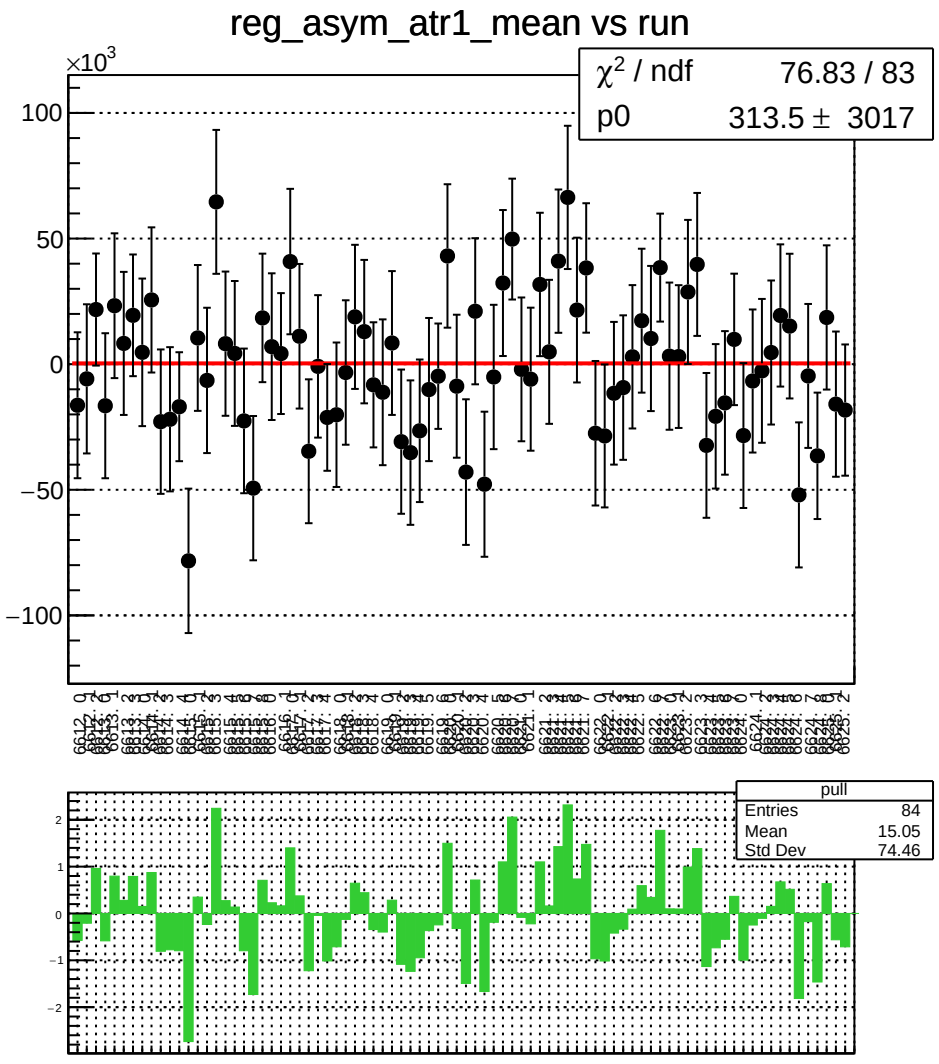

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

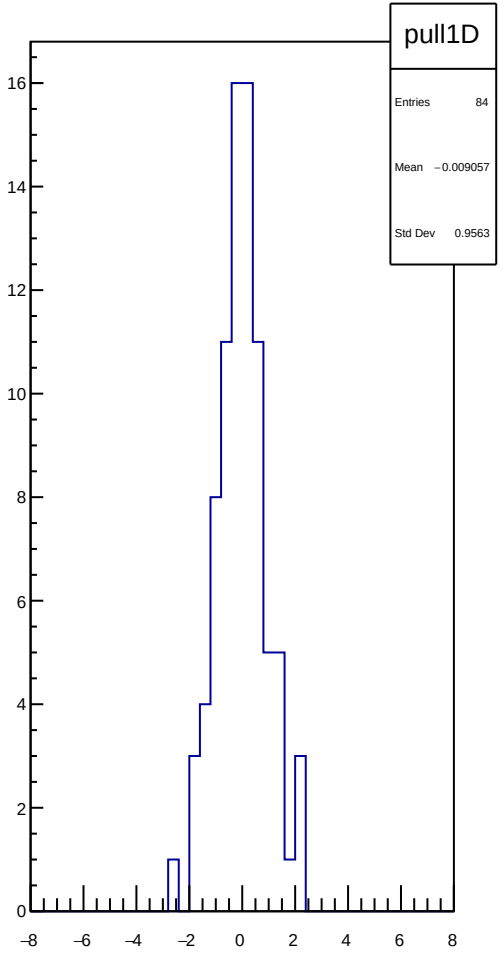

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

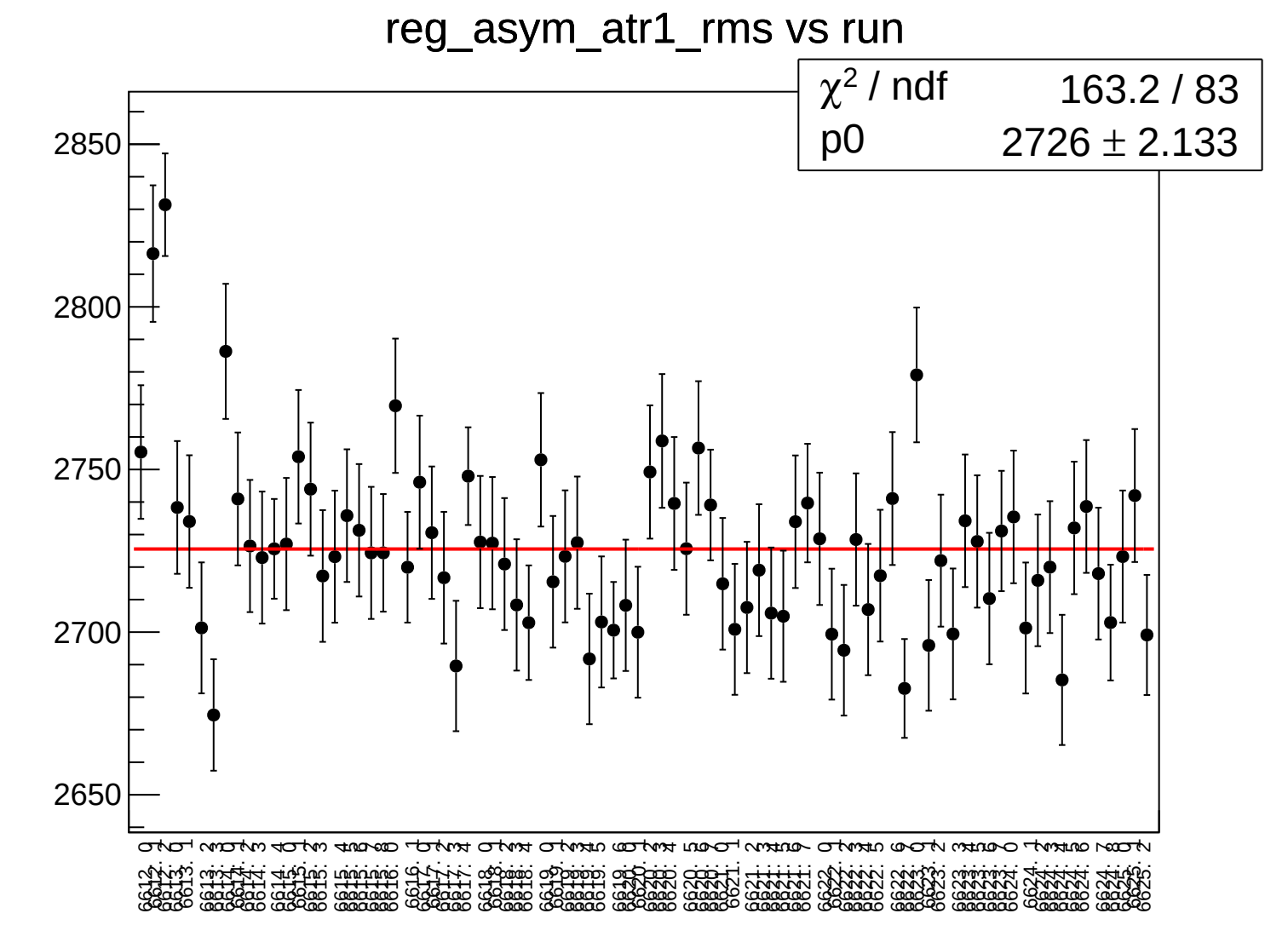

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

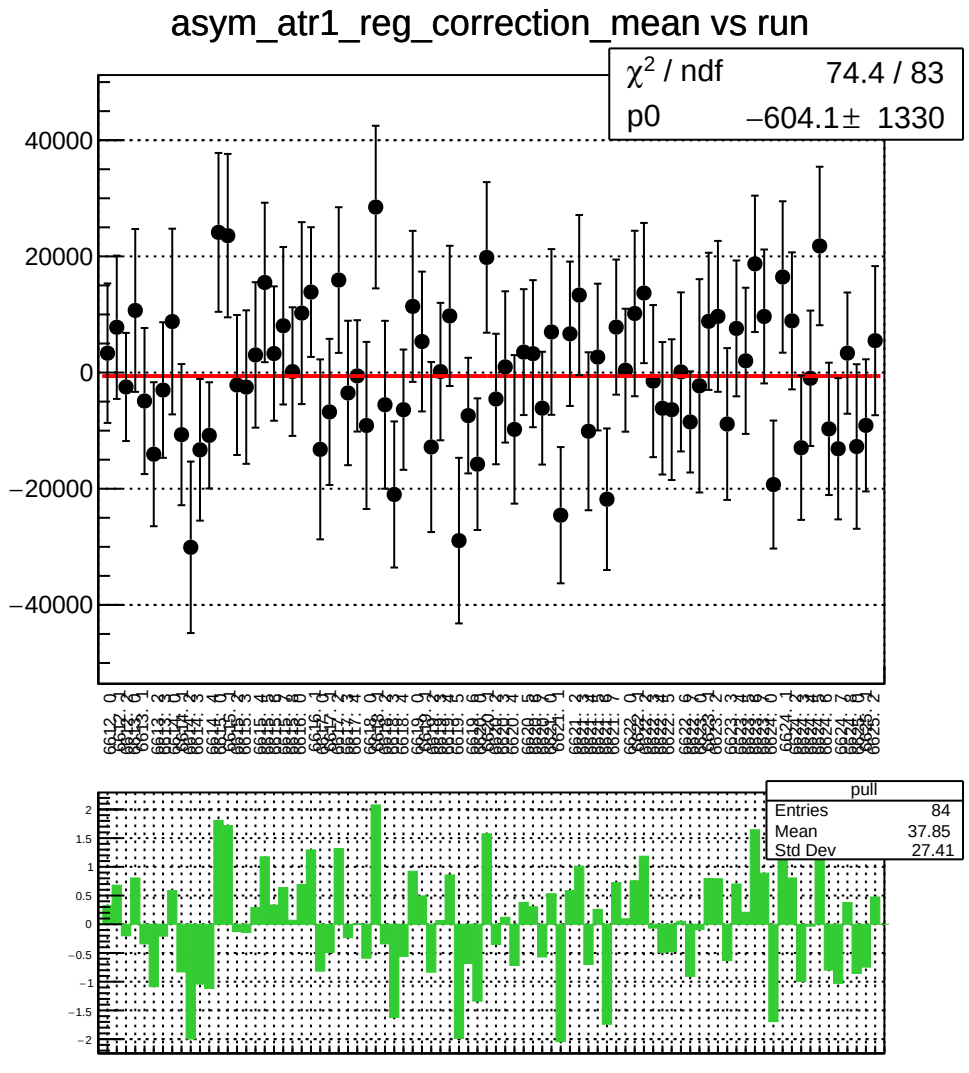

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.89 / 83
p0 1.465e−14 ± 1.542e−14
pull
Entries 84
Mean 121.8
Std Dev 0
pull1D
Entries 84
Mean 0.0369
Std Dev 0.9498

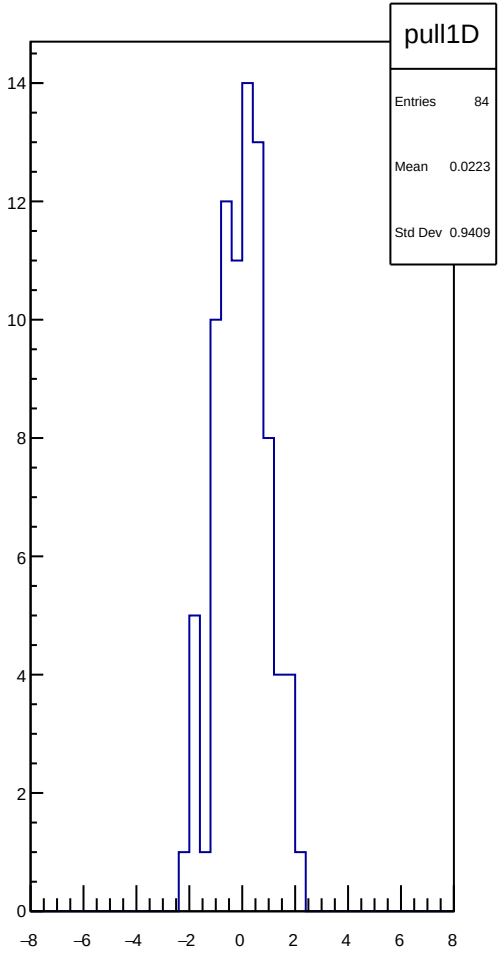

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.691e+05 / 83
p0 1.124e−11 ± 1.09e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

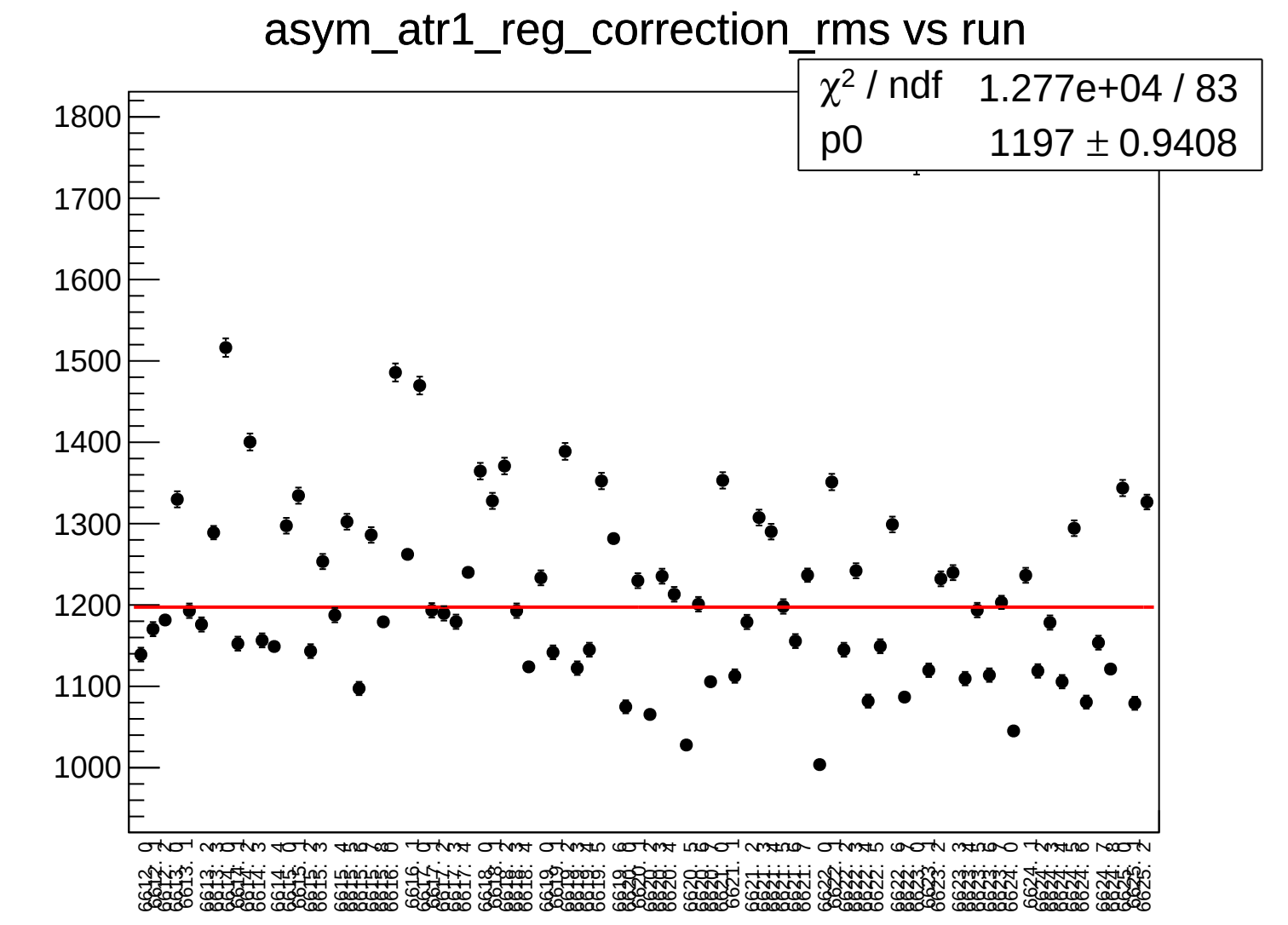

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 76.83 / 83
p0 313.5 ± 3017
100
50
0
−50
−100
pull
Entries 84
Mean 15.05
Std Dev 74.46
2
1
0
−1
−2

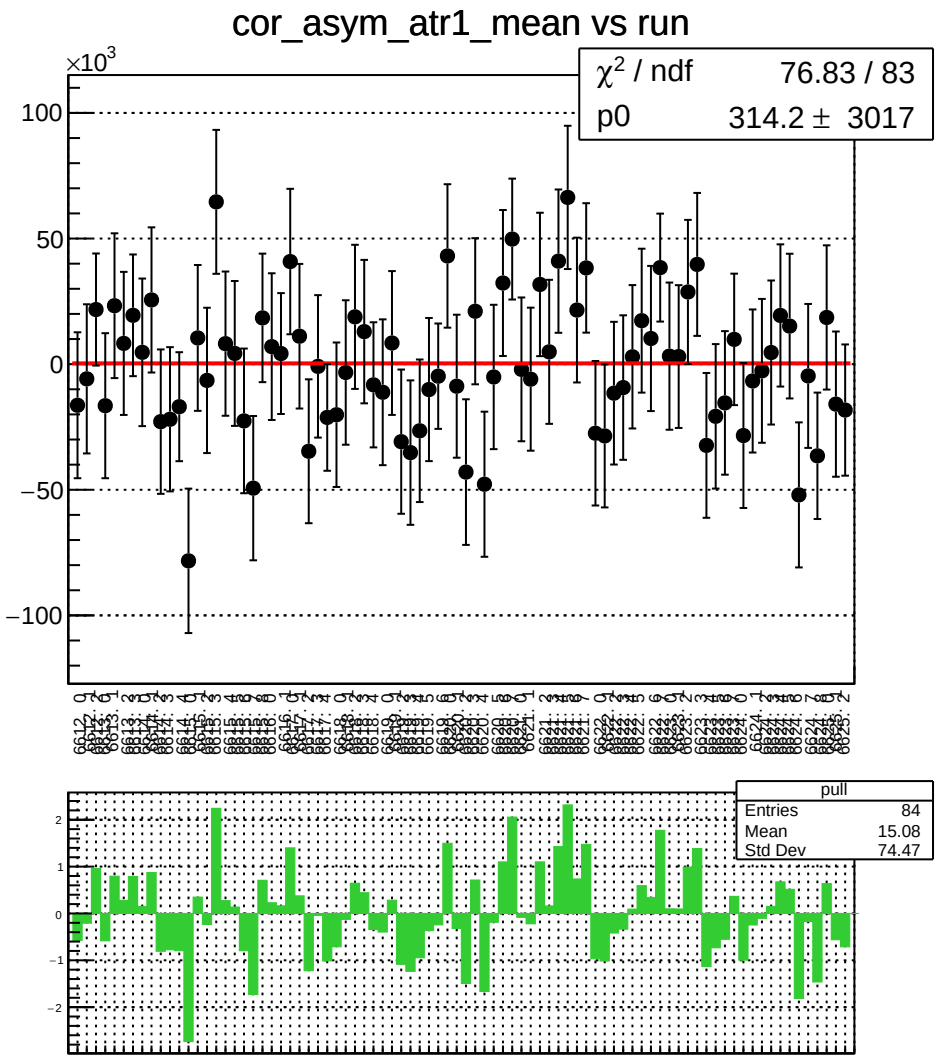

pull1D
Entries 84
Mean −0.009057
Std Dev 0.9563
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

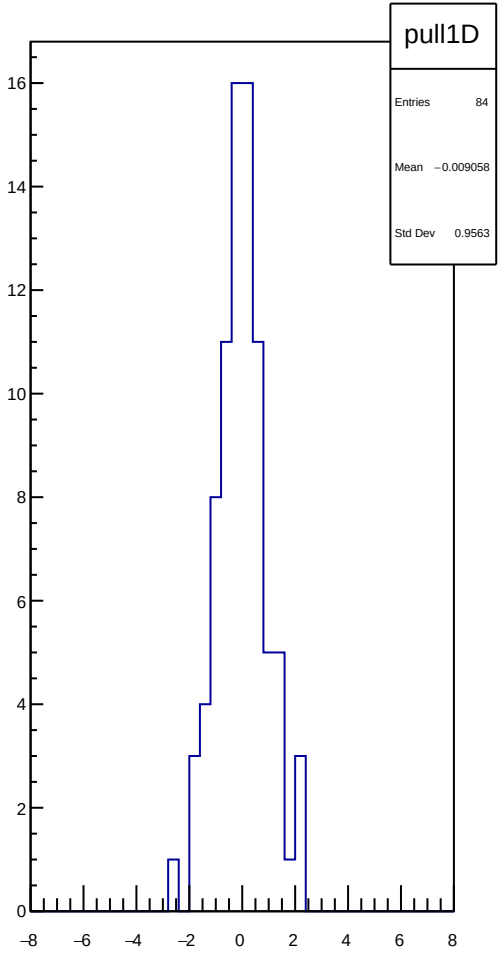

reg_asym_atr1_rms vs run
χ^2 / ndf 163.2 / 83
p0 2726 ± 2.133
2850
2800
2750
2700
2650

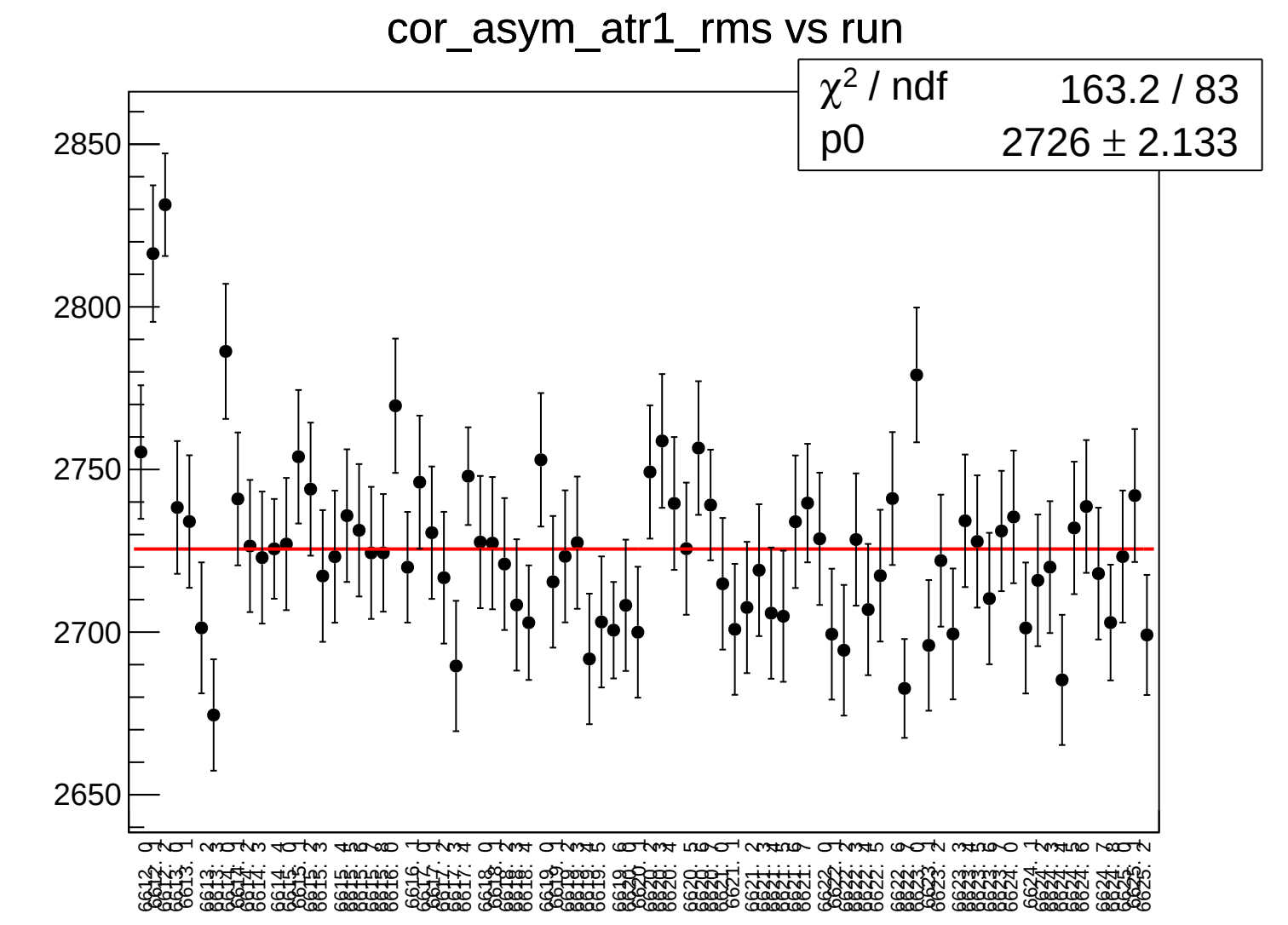

asym_atr1_reg_correction_mean vs run
χ² / ndf 74.4 / 83
p0 −604.1± 1330
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 37.85
Std Dev 27.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

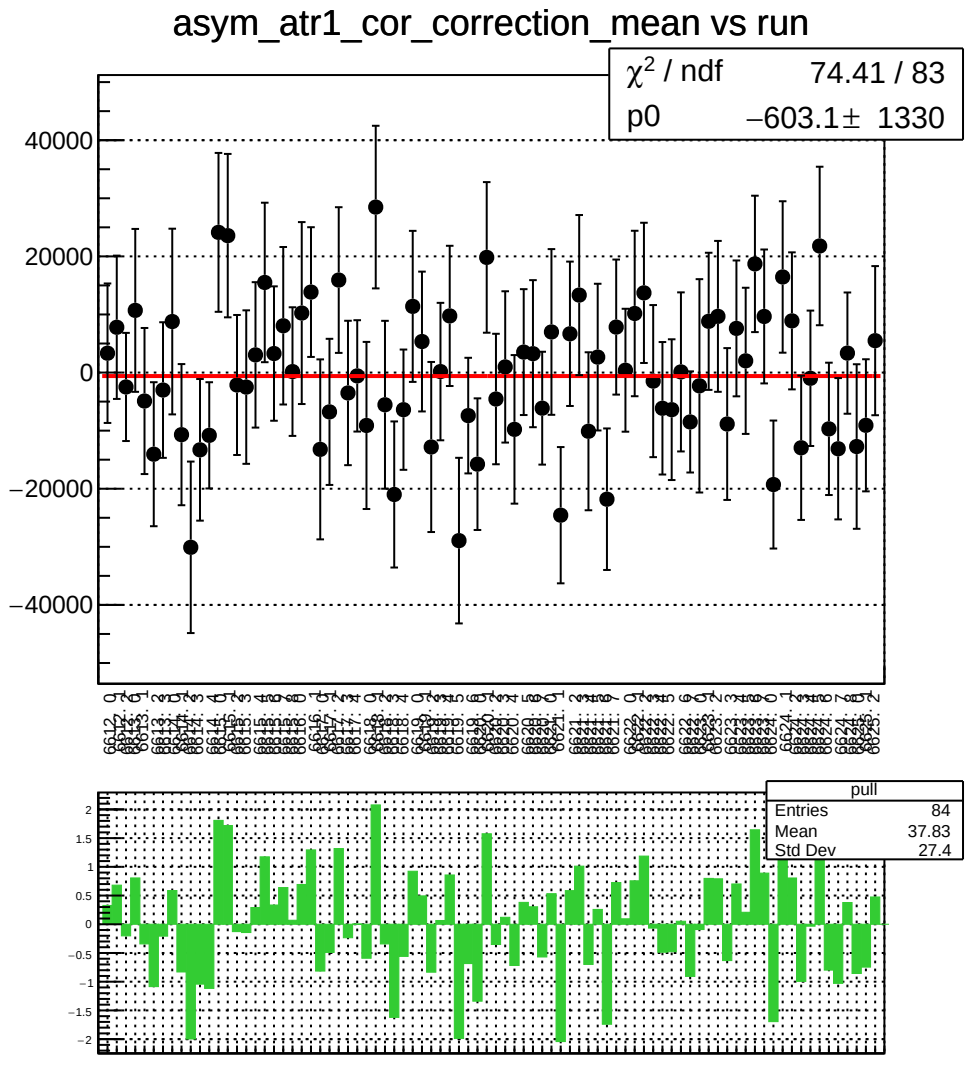

pull1D
Entries 84
Mean 0.0223
Std Dev 0.9409
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

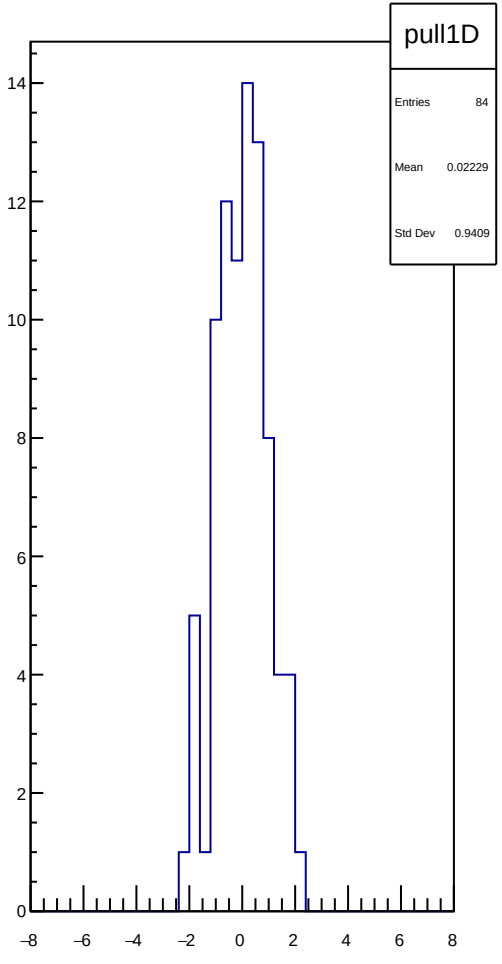

asym_atr1_reg_correction_rms vs run
χ² / ndf 1.277e+04 / 83
p0 1197 ± 0.9408
1800
1700
1600
1500
1400
1300
1200
1100
1000

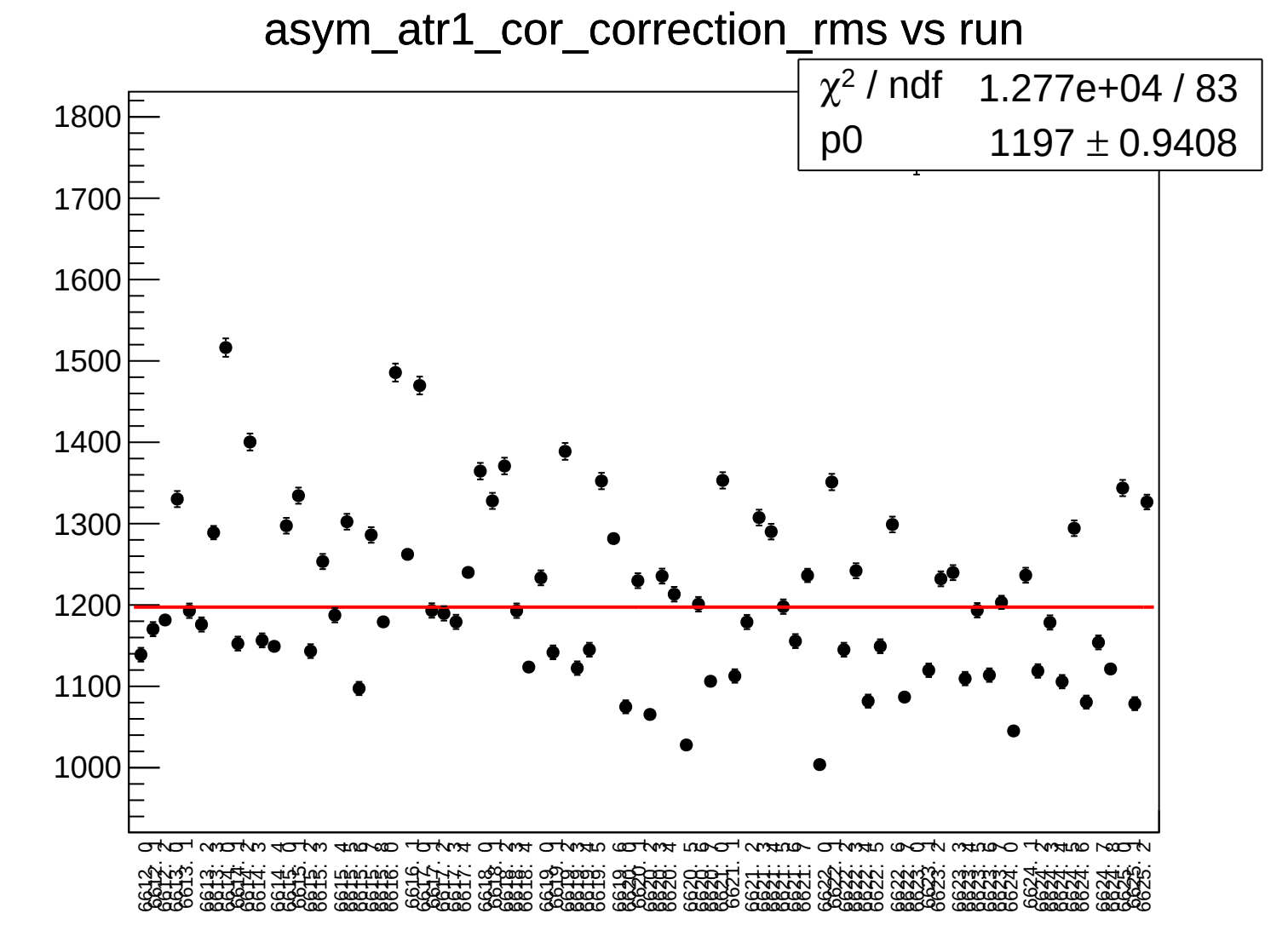

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 76.83 / 83
p0 314.2 ± 3017
100
50
0
−50
−100
pull
Entries 84
Mean 15.08
Std Dev 74.47
2
1
0
−1
−2

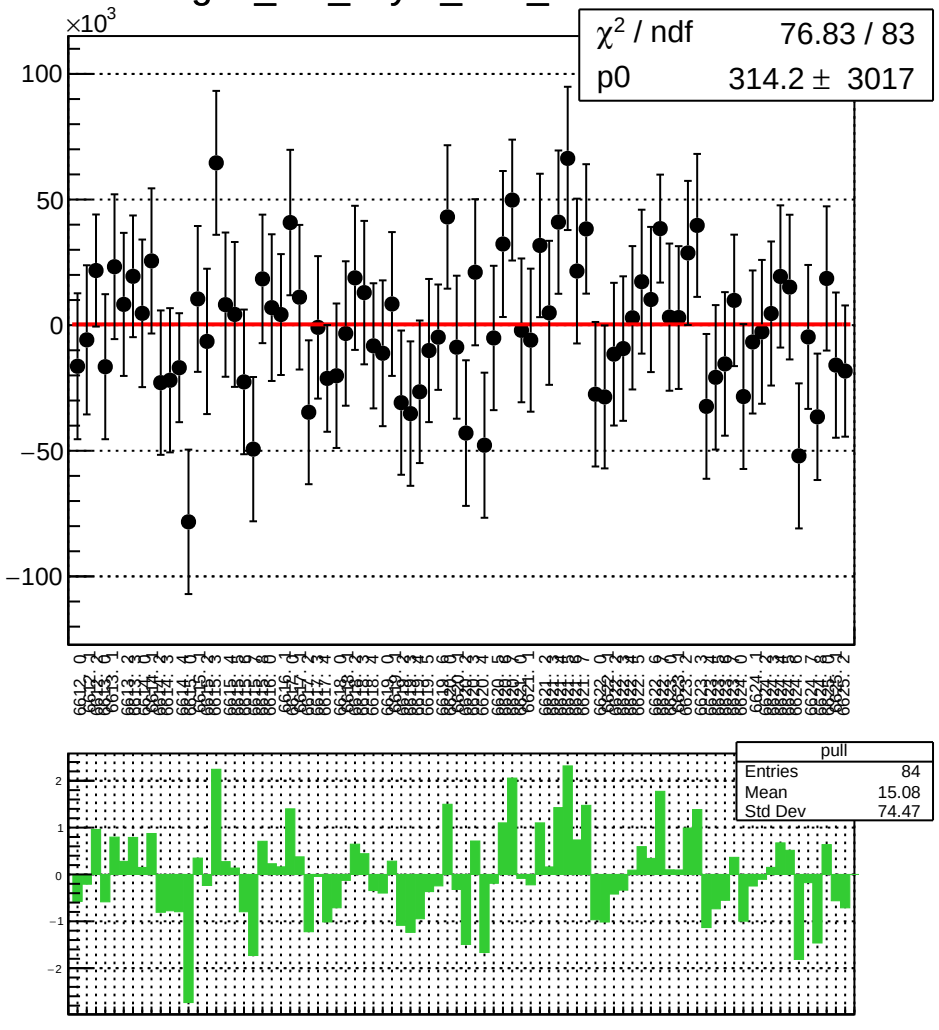

pull1D
Entries 84
Mean −0.009058
Std Dev 0.9563
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

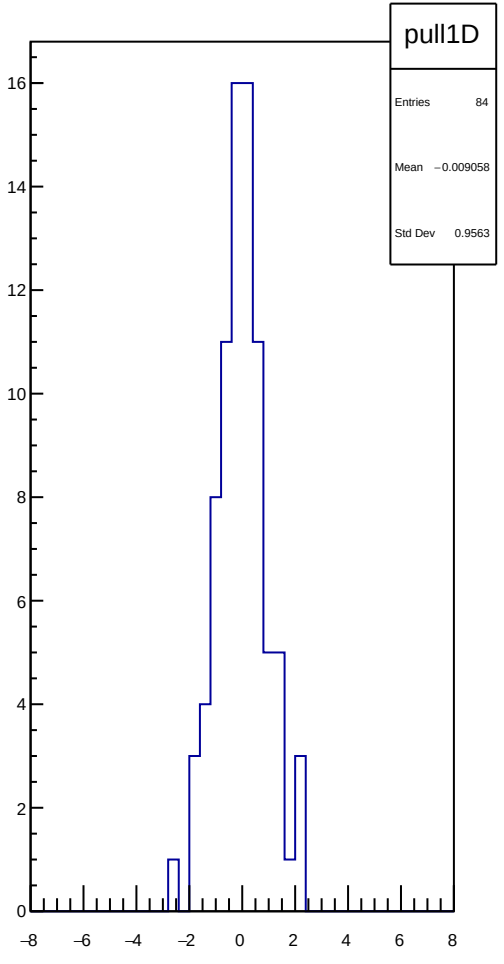

cor_asym_atr1_rms vs run
χ² / ndf 163.2 / 83
p0 2726 ± 2.133
2850
2800
2750
2700
2650

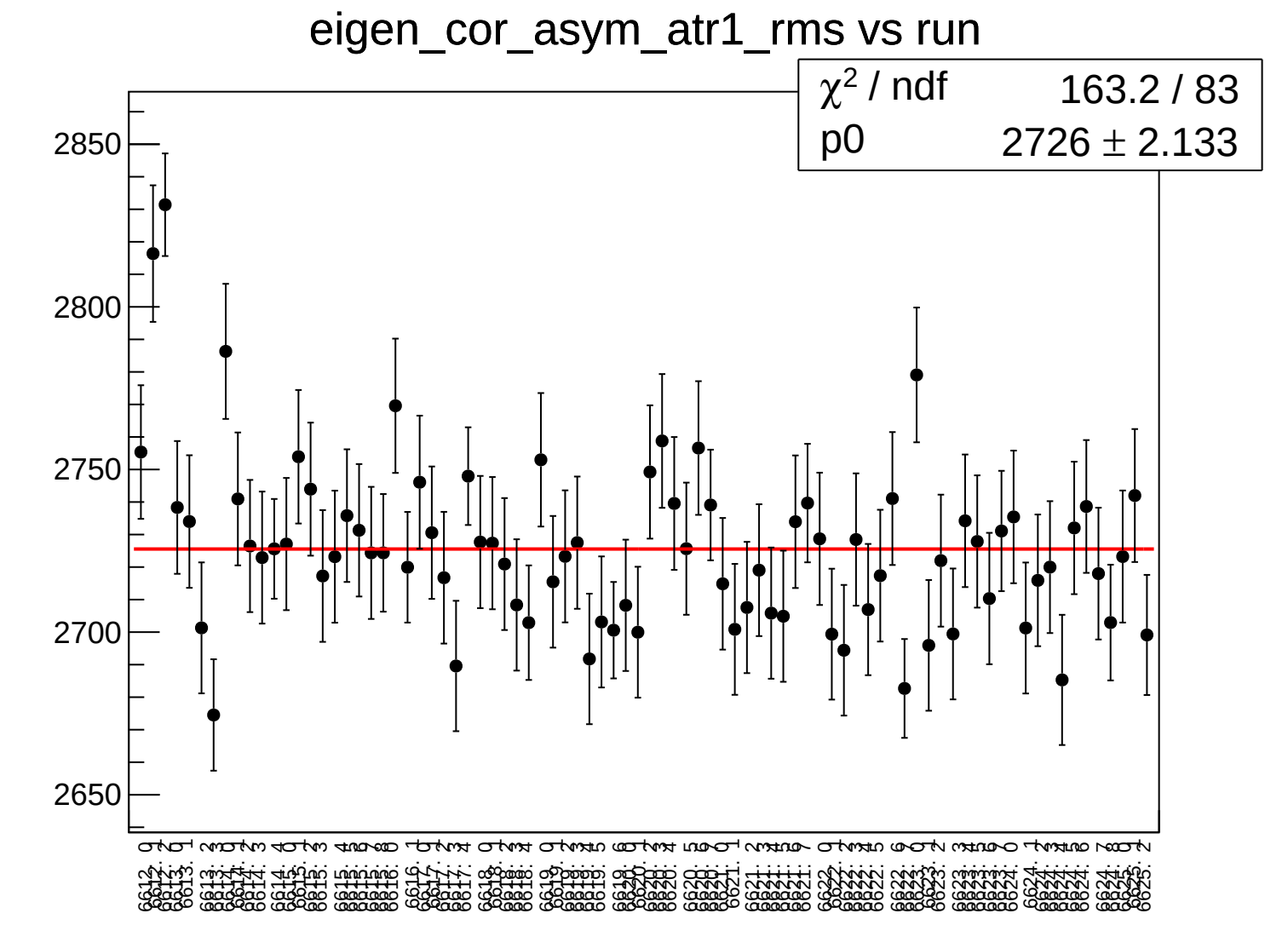

asym_atr1_cor_correction_mean vs run
χ² / ndf 74.41 / 83
p0 −603.1± 1330
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 37.83
Std Dev 27.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

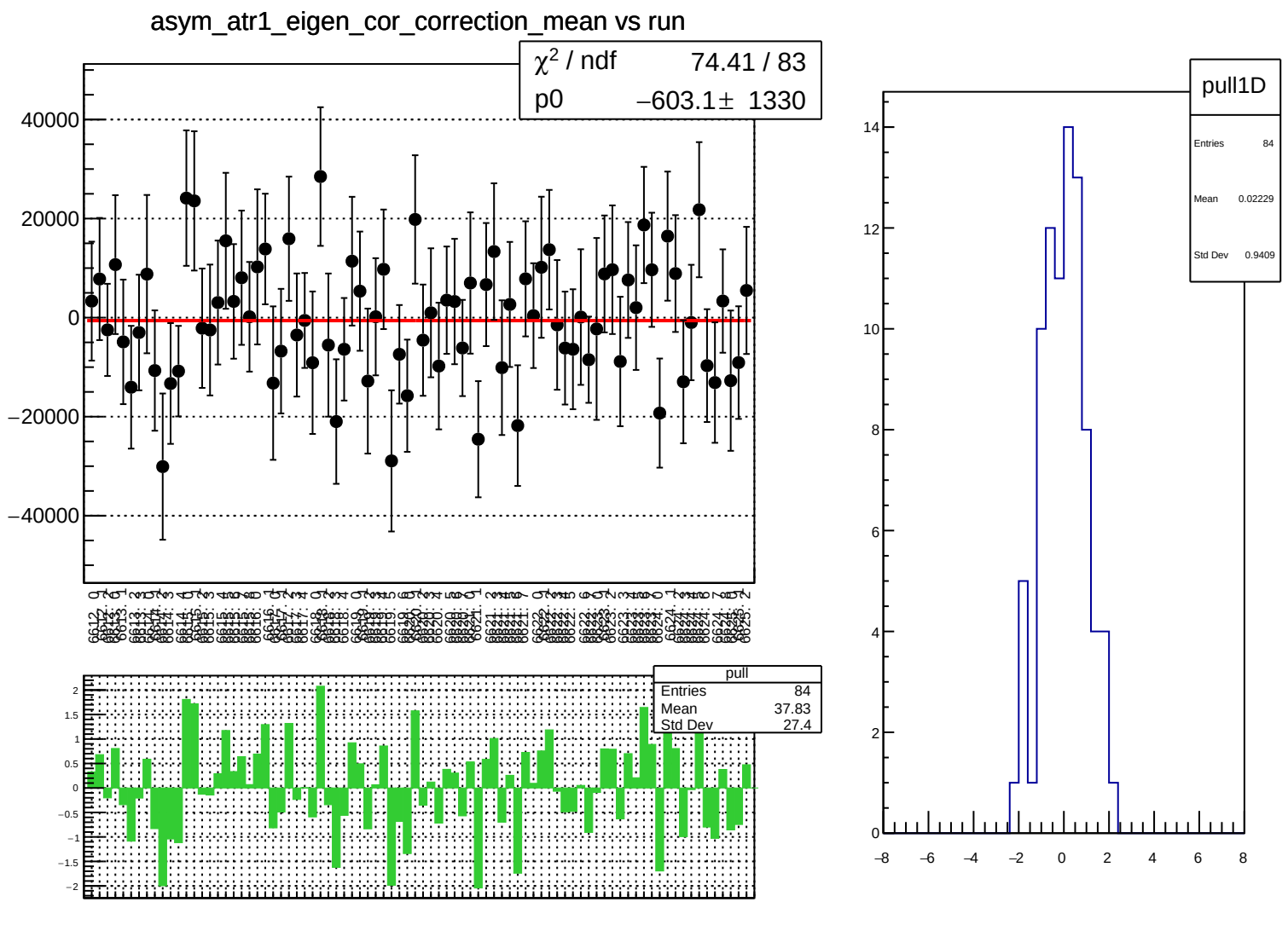

pull1D
Entries 84
Mean 0.02229
Std Dev 0.9409
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

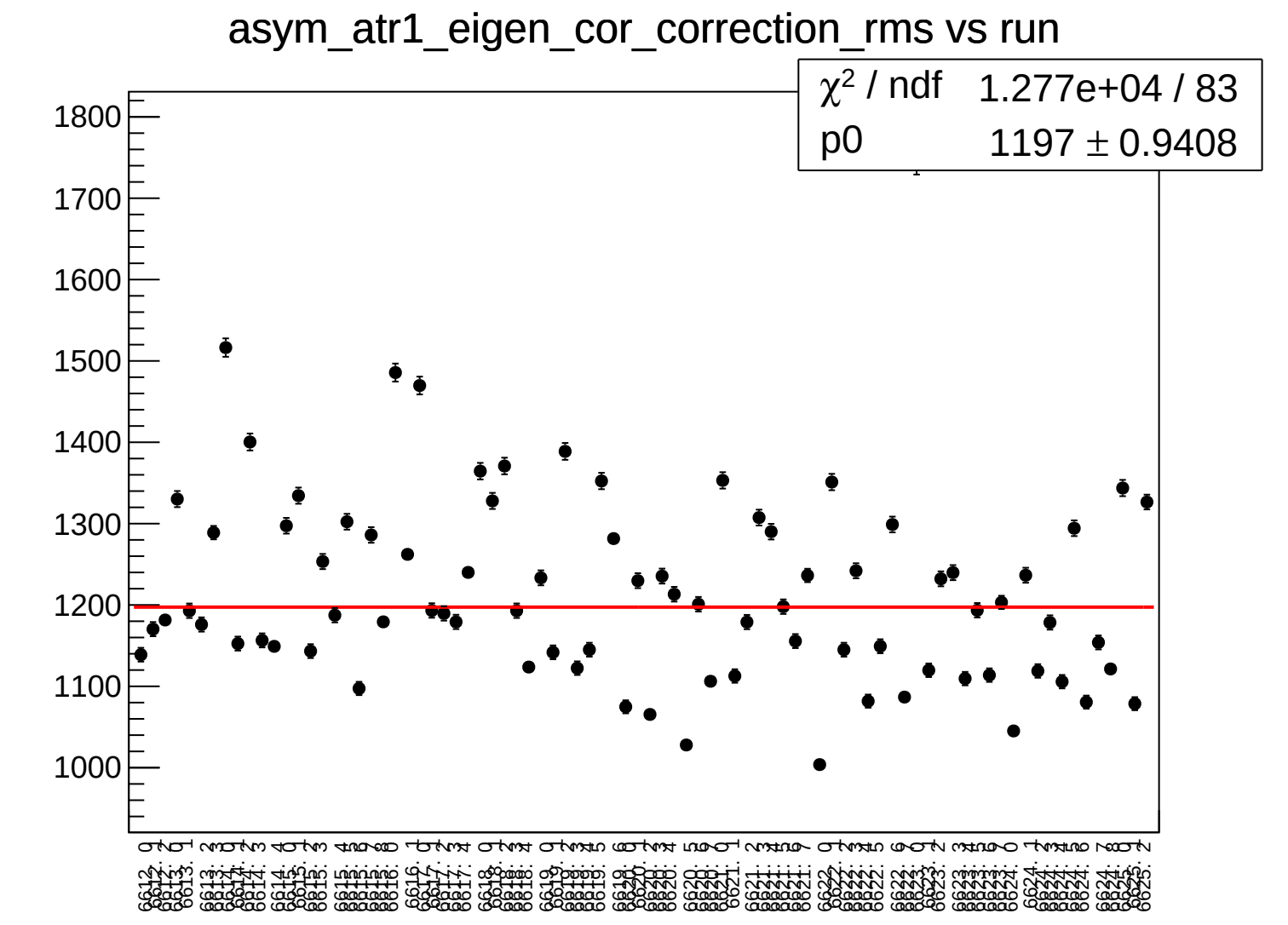

asym_atr1_cor_correction_rms vs run
χ² / ndf 1.277e+04 / 83
p0 1197 ± 0.9408
1800
1700
1600
1500
1400
1300
1200
1100
1000

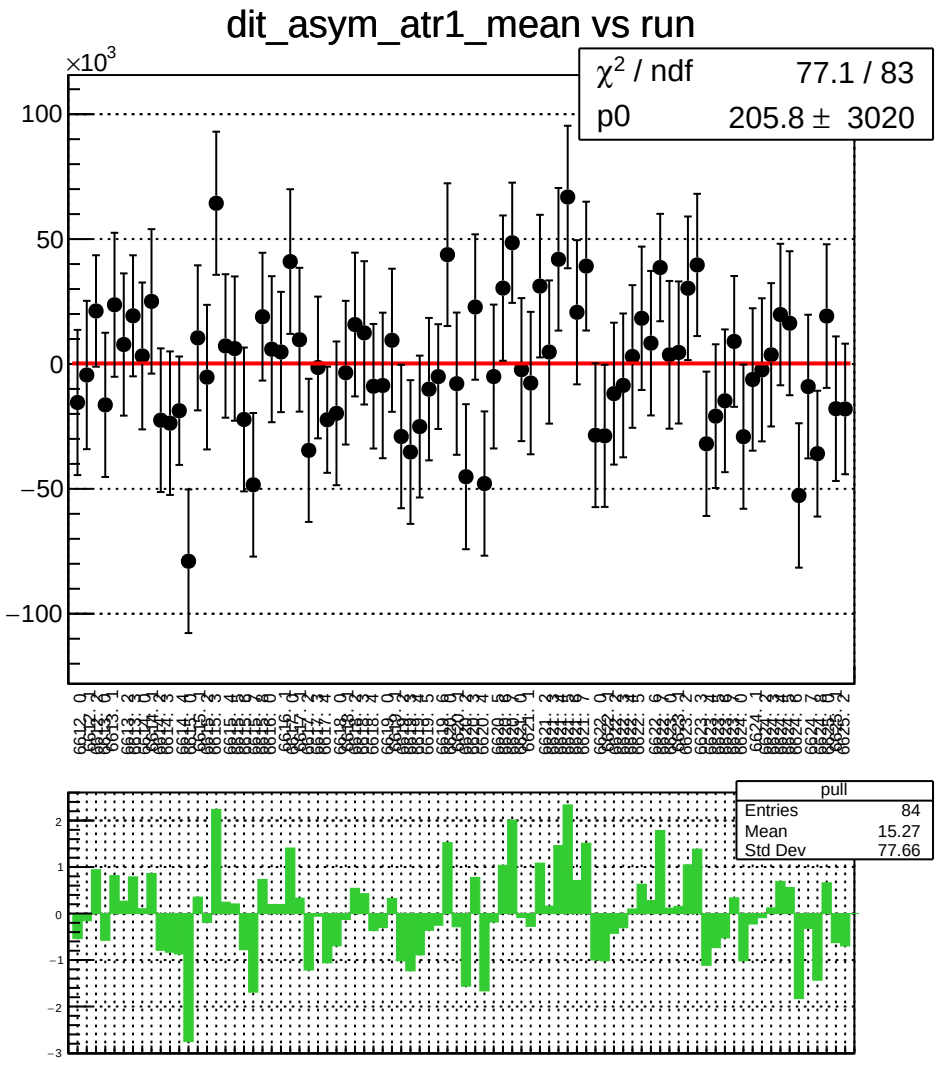

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 76.83 / 83
p0 314.2 ± 3017
100
50
0
−50
−100
pull
Entries 84
Mean 15.08
Std Dev 74.47
2
1
0
−1
−2

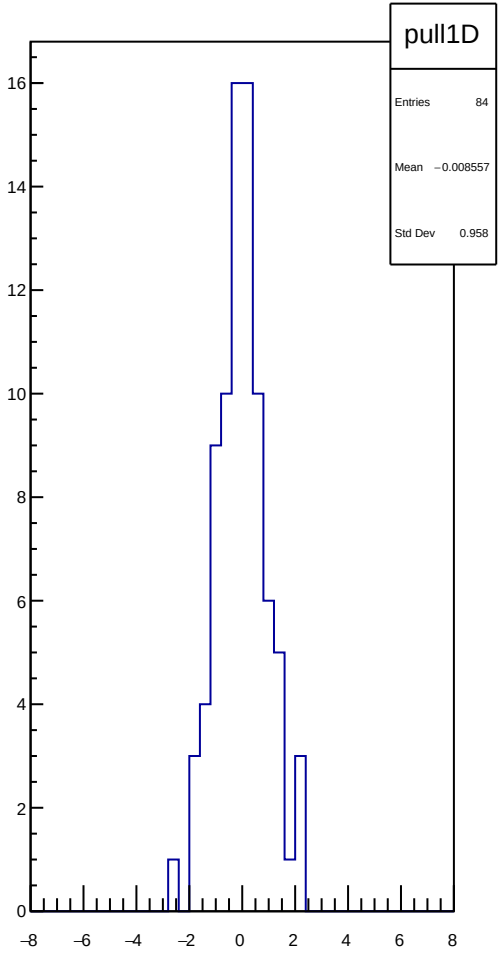

pull1D
Entries 84
Mean −0.009058
Std Dev 0.9563
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

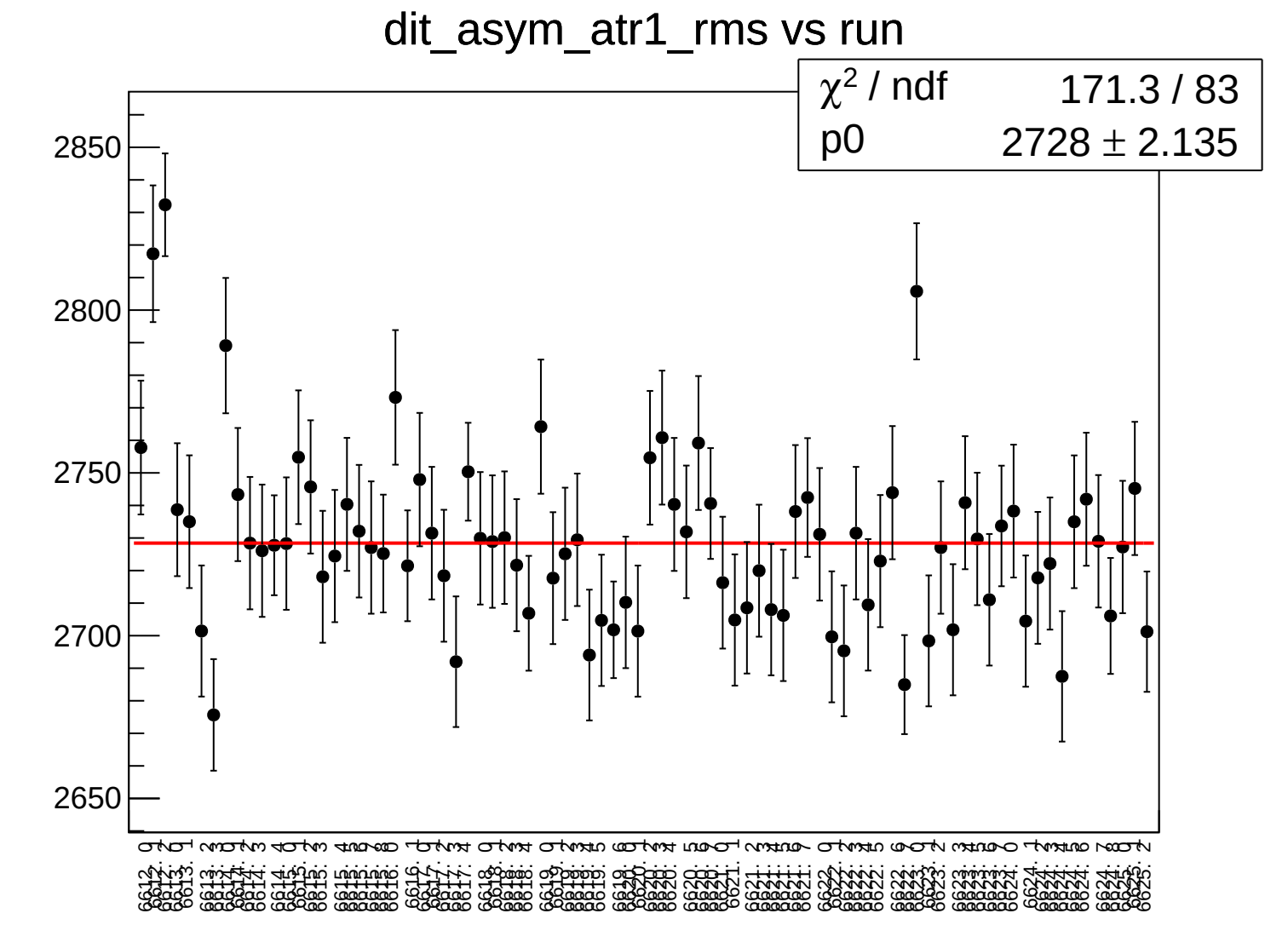

eigen_cor_asym_atr1_rms vs run
χ^2 / ndf 163.2 / 83
p0 2726 ± 2.133
2850
2800
2750
2700
2650

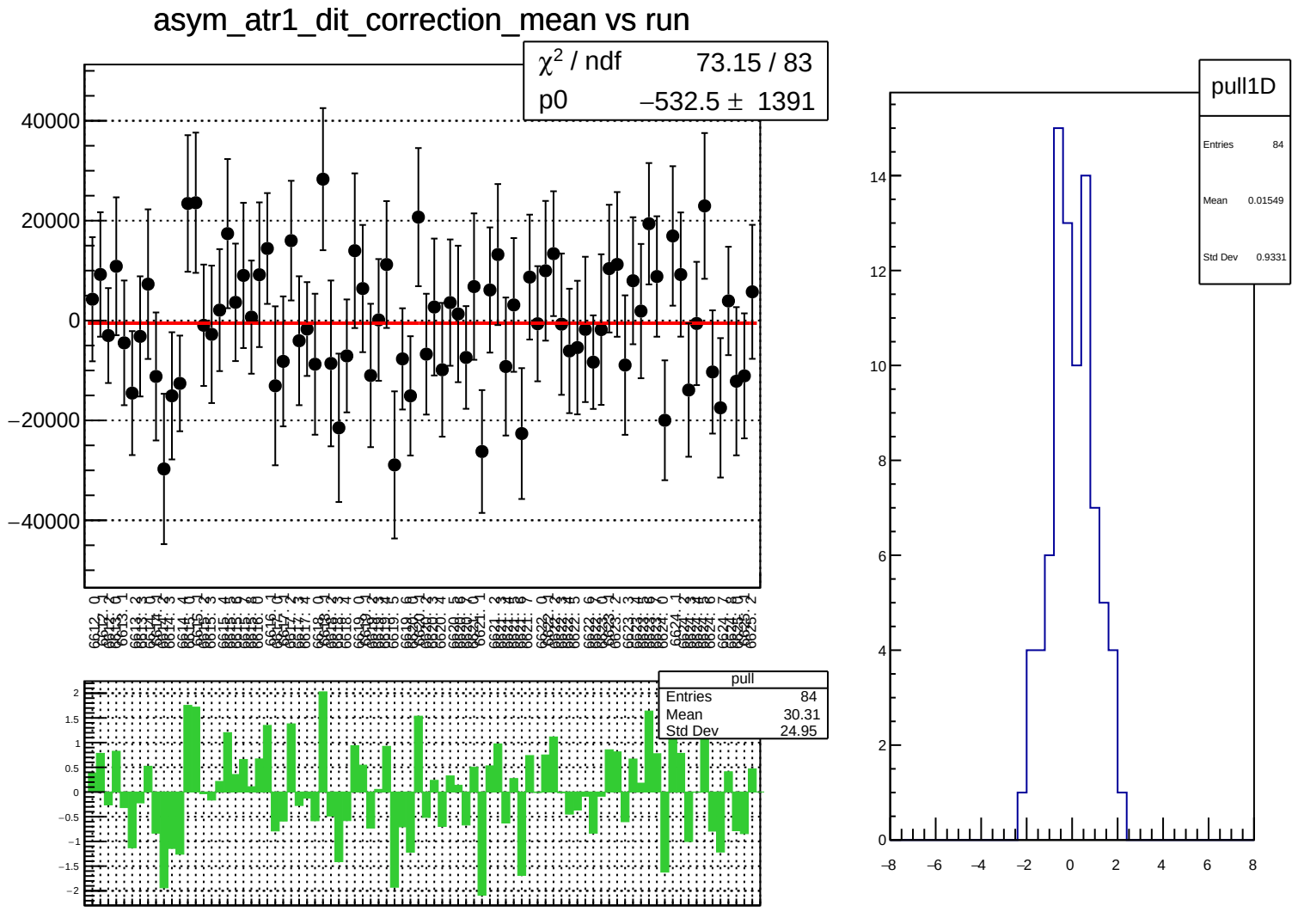

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 74.41 / 83
p0 −603.1± 1330
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 37.83
Std Dev 27.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.02229
Std Dev 0.9409
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

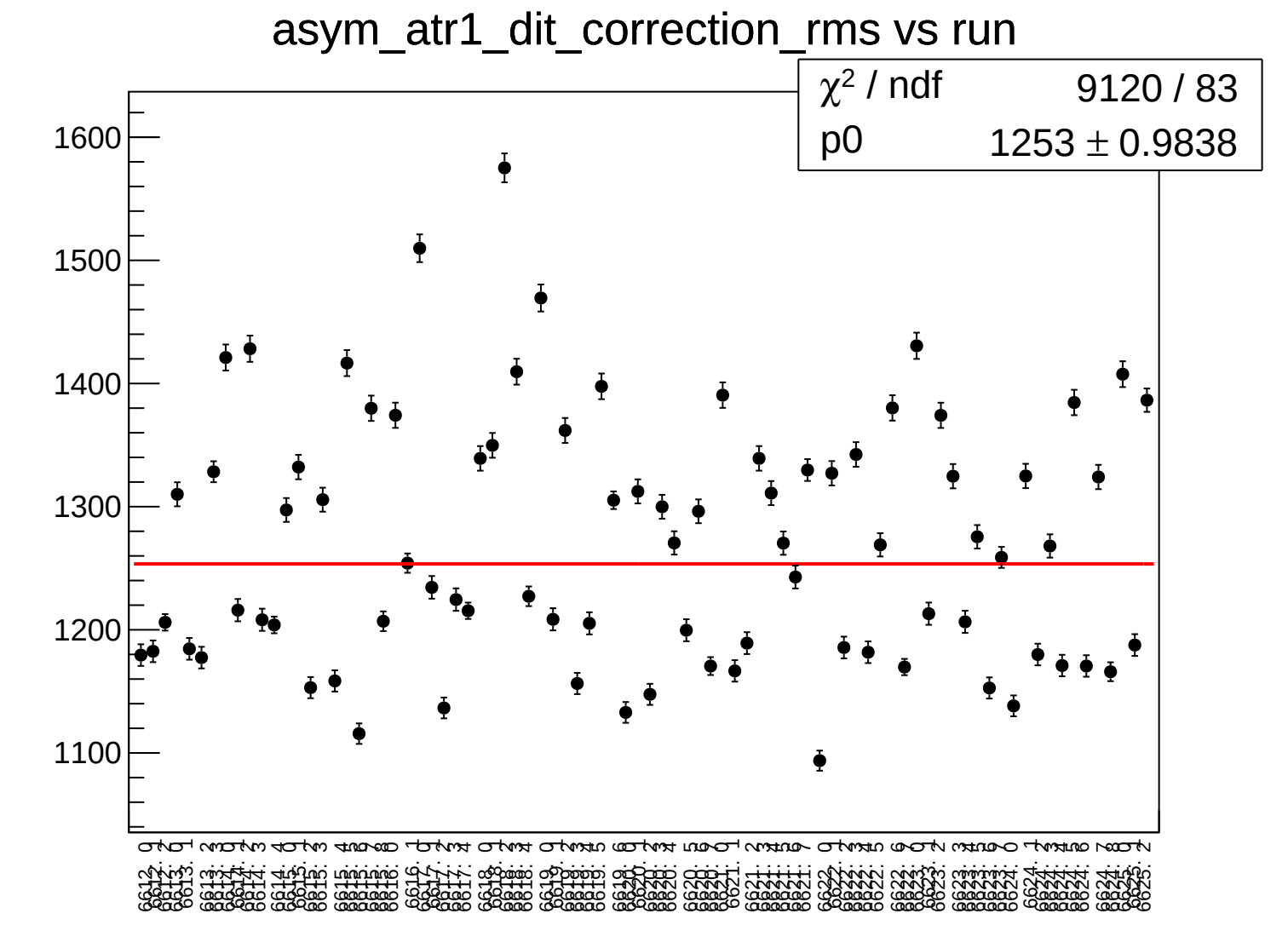

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.277e+04 / 83
p0 1197 ± 0.9408
1800
1700
1600
1500
1400
1300
1200
1100
1000

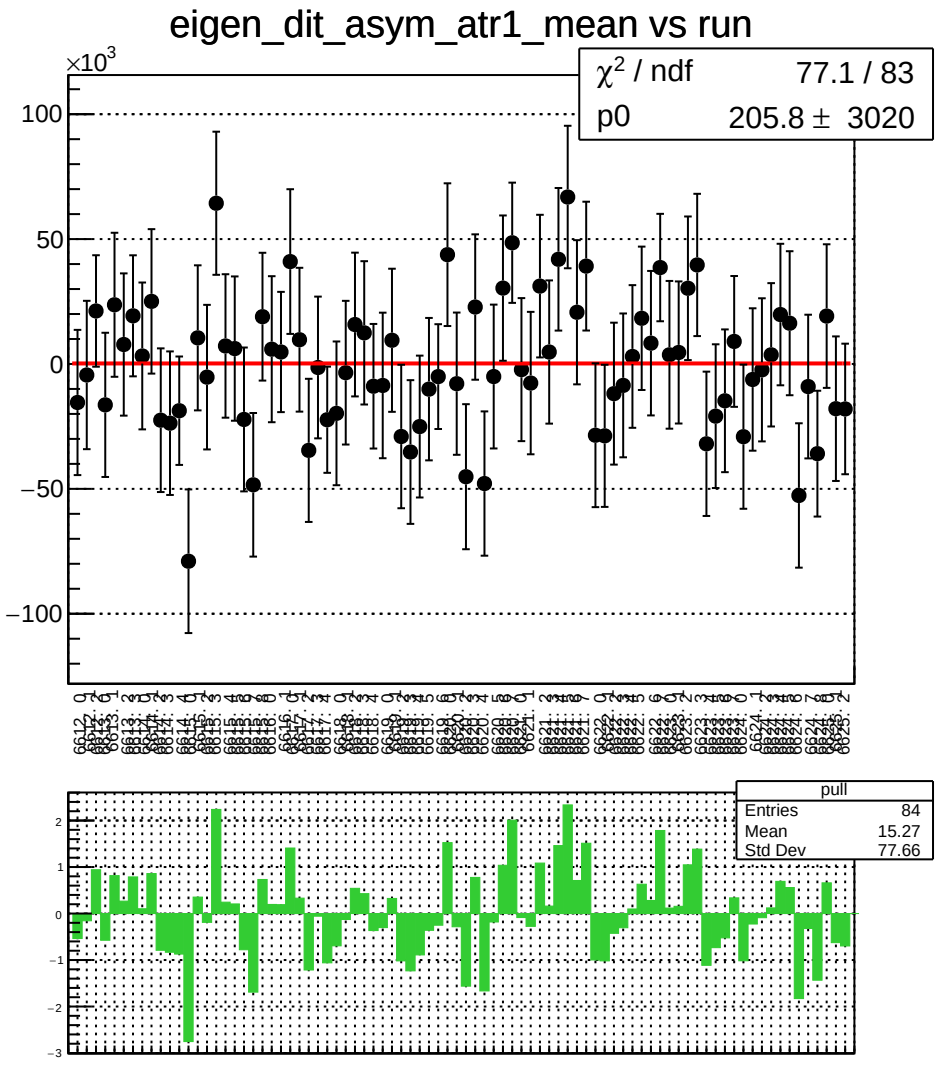

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 77.1 / 83
p0 205.8 ± 3020
100
50
0
−50
−100
pull
Entries 84
Mean 15.27
Std Dev 77.66
2
1
0
−1
−2
−3

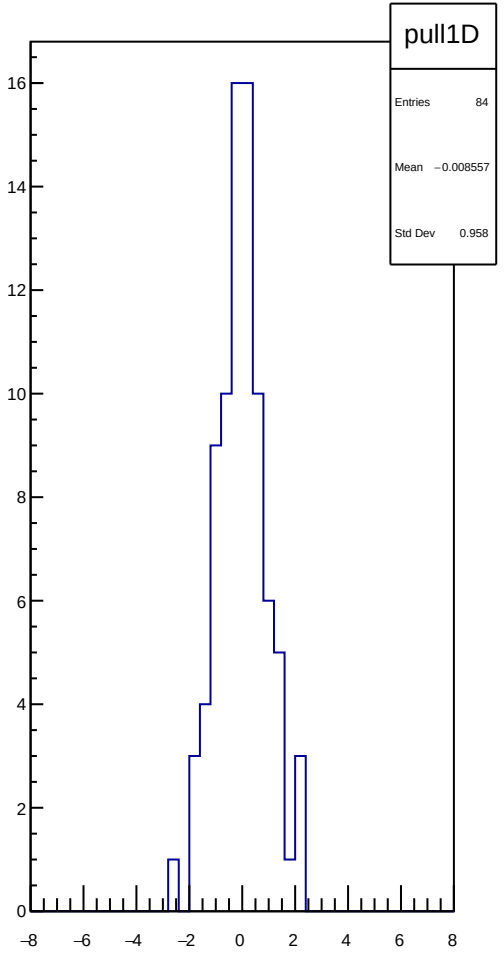

pull1D
Entries 84
Mean −0.008557
Std Dev 0.958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

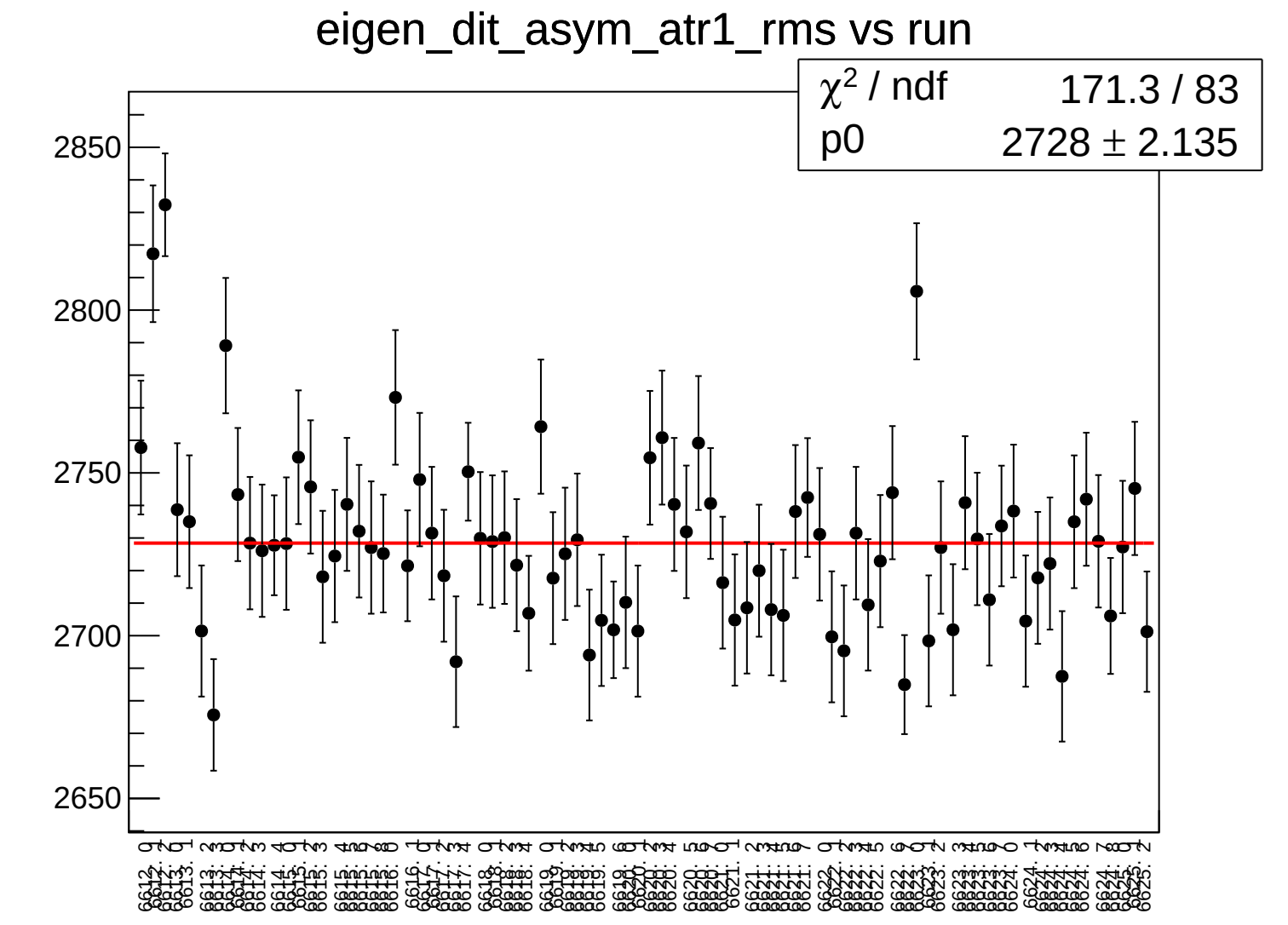

dit_asym_atr1_rms vs run
χ² / ndf 171.3 / 83
p0 2728 ± 2.135
2850
2800
2750
2700
2650

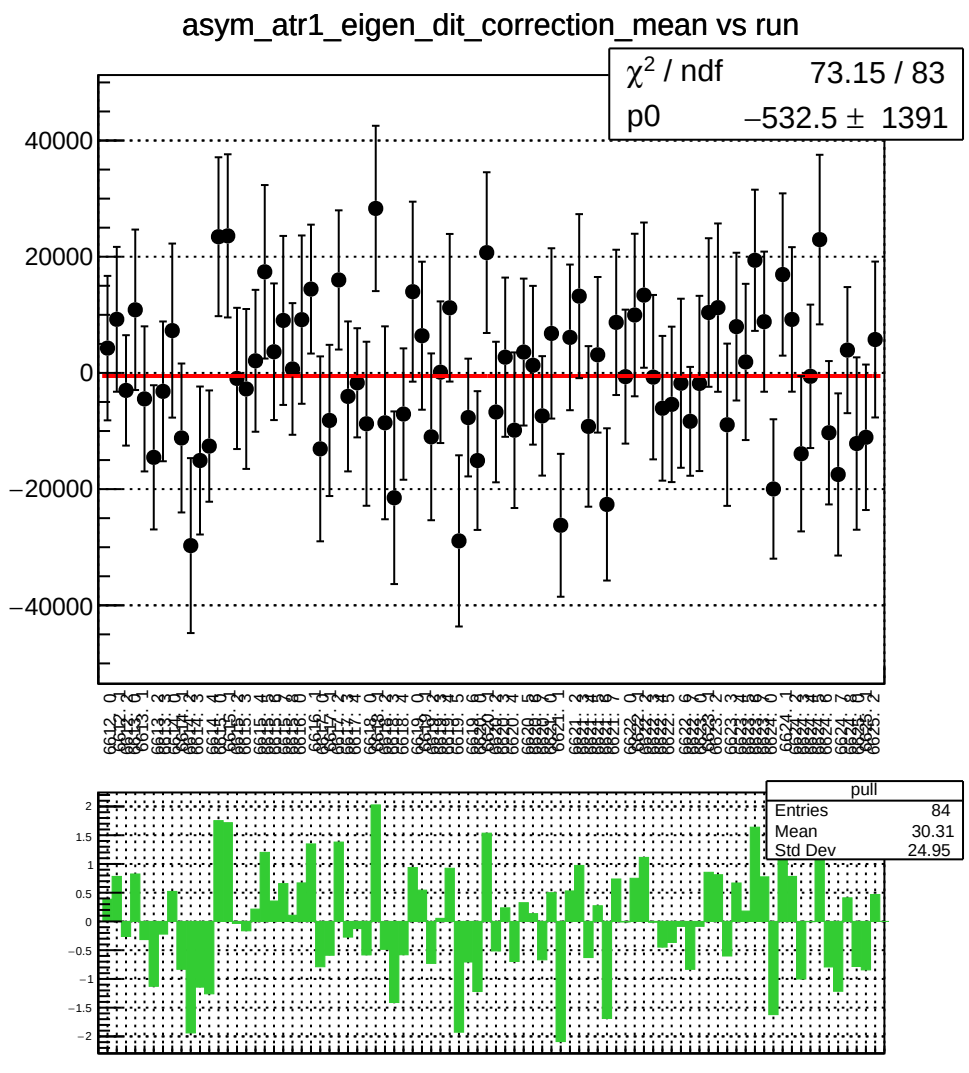

asym_atr1_dit_correction_mean vs run
χ² / ndf 73.15 / 83
p0 −532.5 ± 1391
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 30.31
Std Dev 24.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.01549
Std Dev 0.9331
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

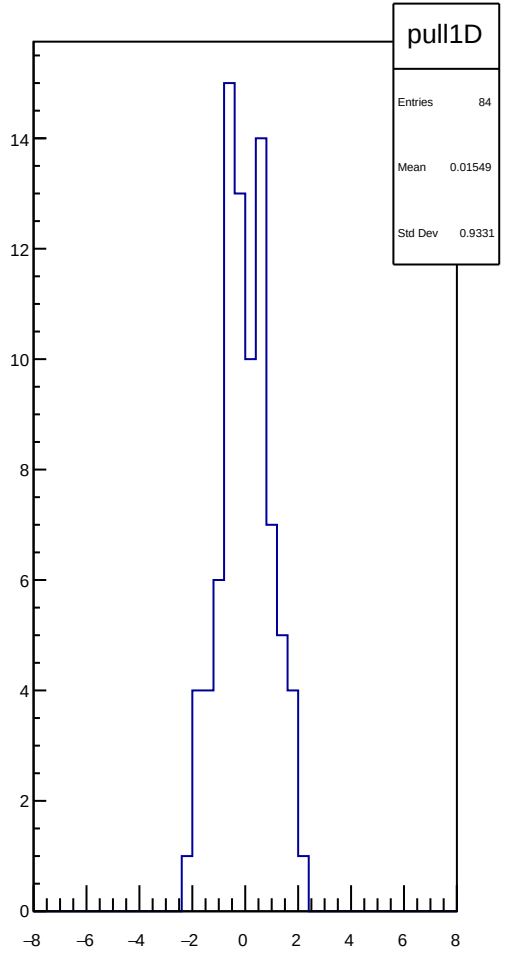

asym_atr1_dit_correction_rms vs run
χ^2 / ndf 9120 / 83
p0 1253 ± 0.9838
1600
1500
1400
1300
1200
1100

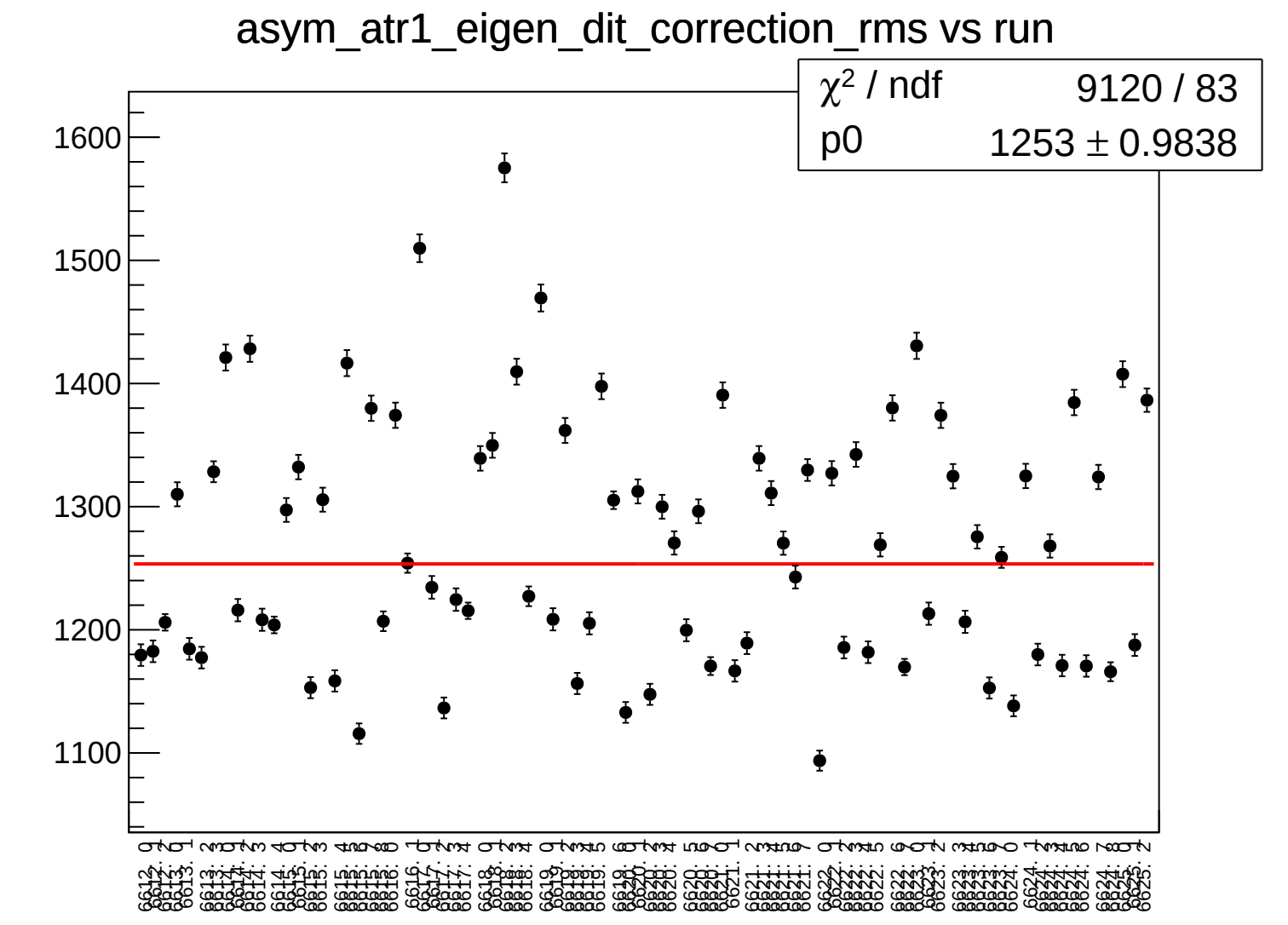

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 77.1 / 83
p0 205.8 ± 3020
100
50
0
−50
−100
pull
Entries 84
Mean 15.27
Std Dev 77.66
2
1
0
−1
−2
−3

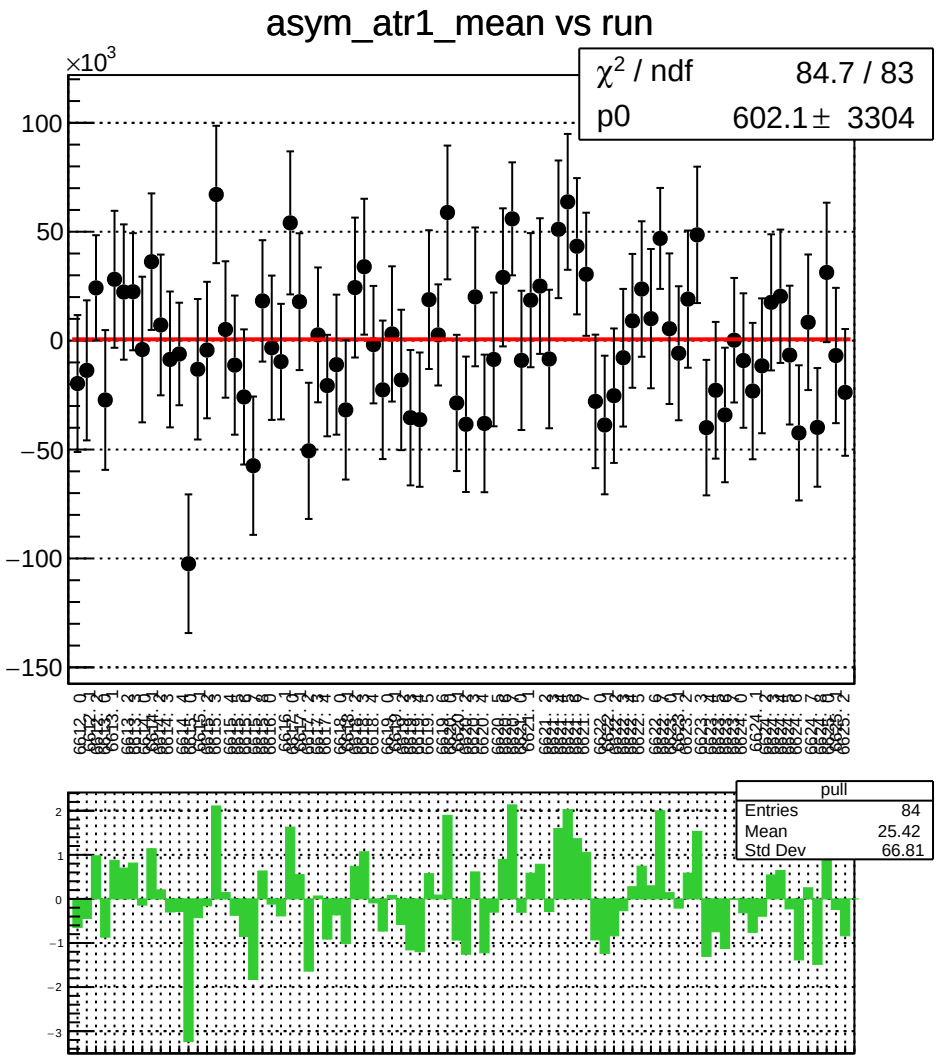

pull1D
Entries 84
Mean −0.008557
Std Dev 0.958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

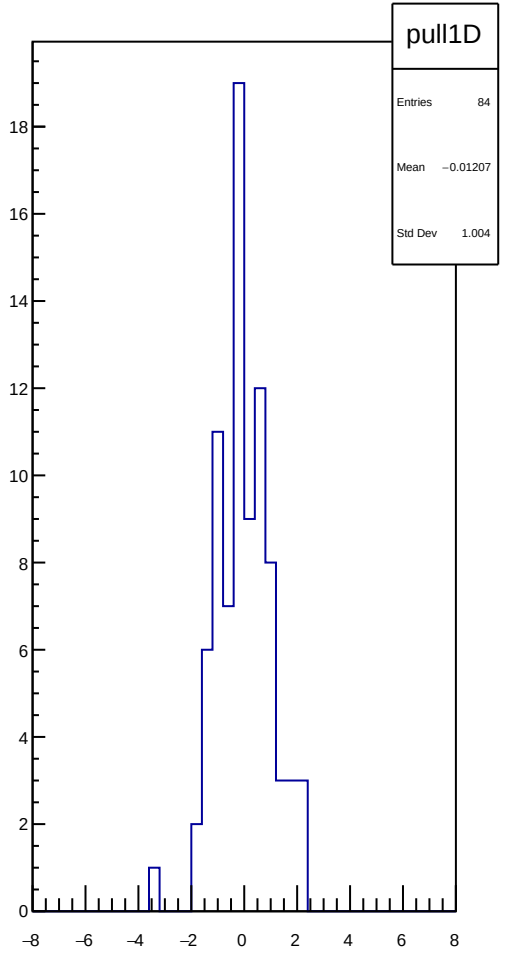

eigen_dit_asym_atr1_rms vs run
χ² / ndf 171.3 / 83
p0 2728 ± 2.135
2850
2800
2750
2700
2650

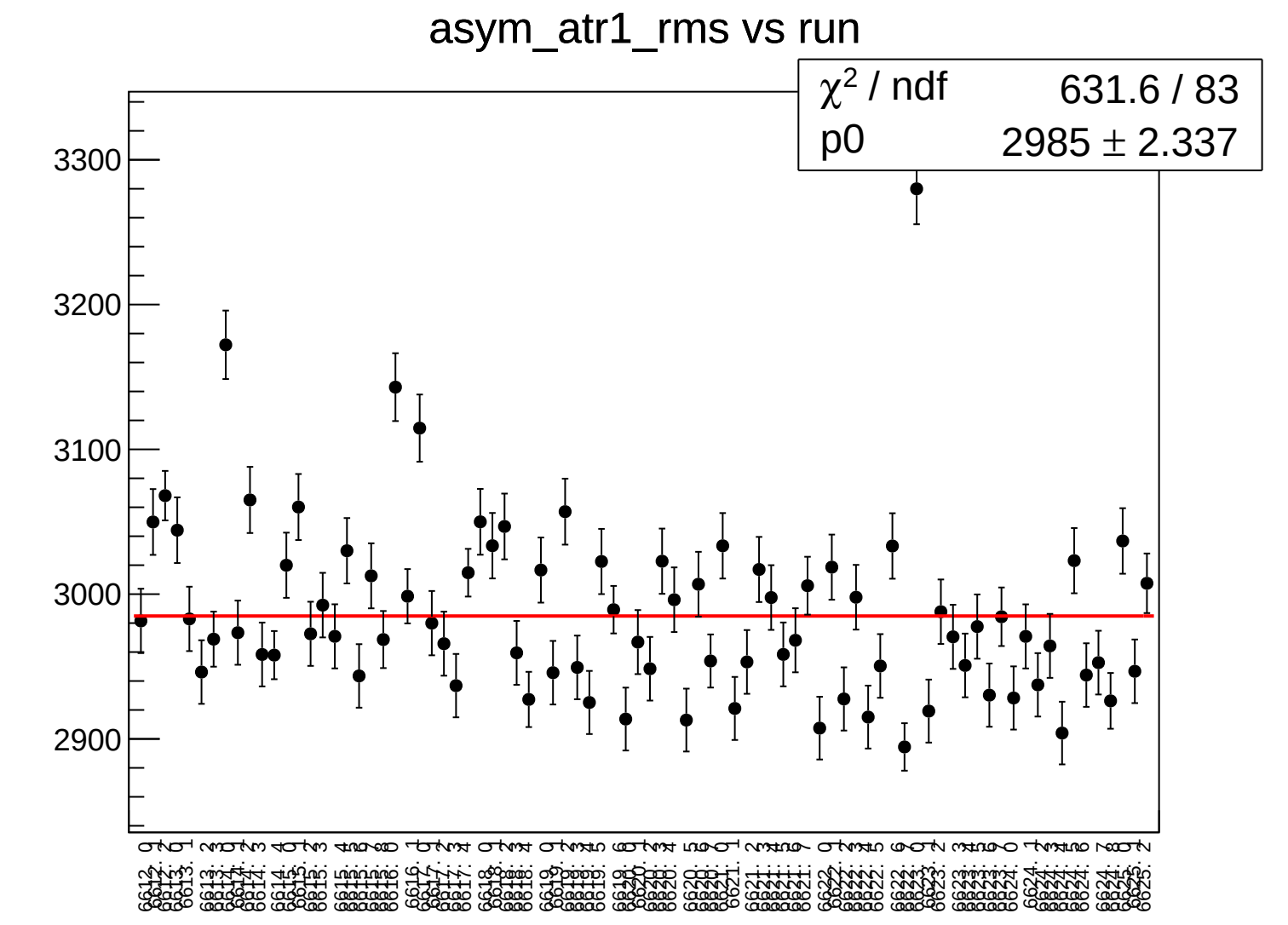

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 73.15 / 83
p0 −532.5 ± 1391
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 30.31
Std Dev 24.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

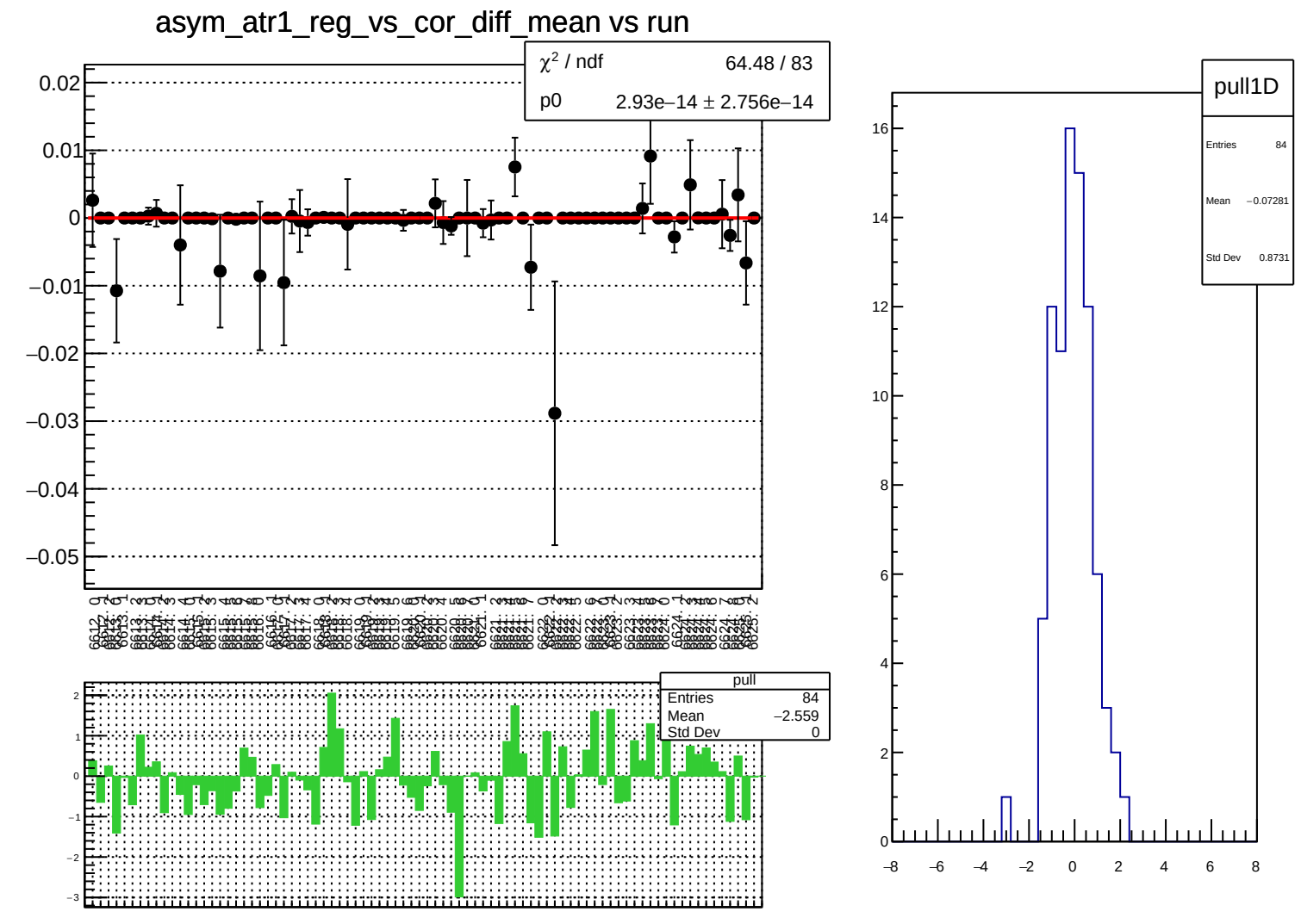

pull1D
Entries 84
Mean 0.01549
Std Dev 0.9331
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

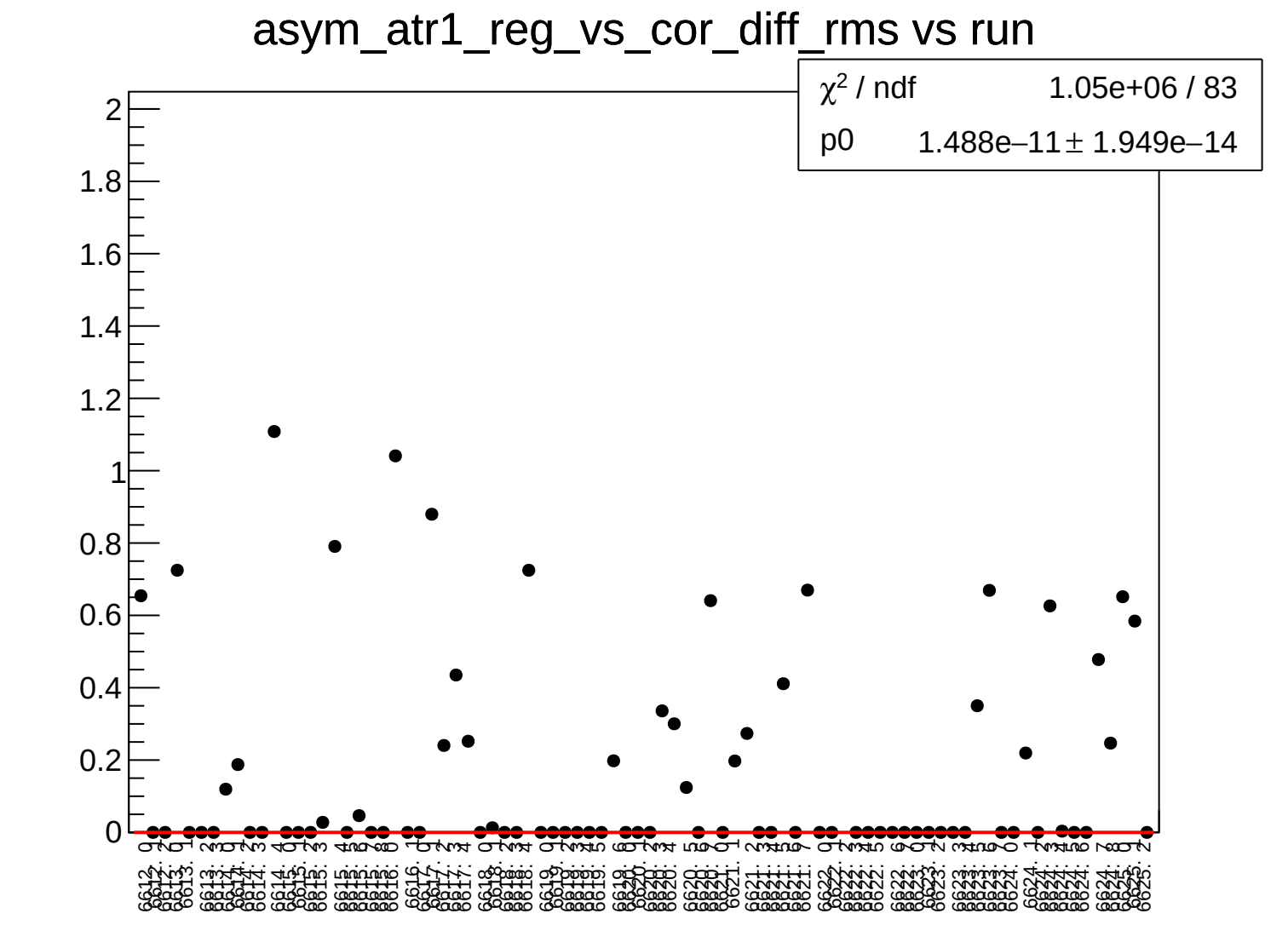

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 9120 / 83
p0 1253 ± 0.9838
1600
1500
1400
1300
1200
1100

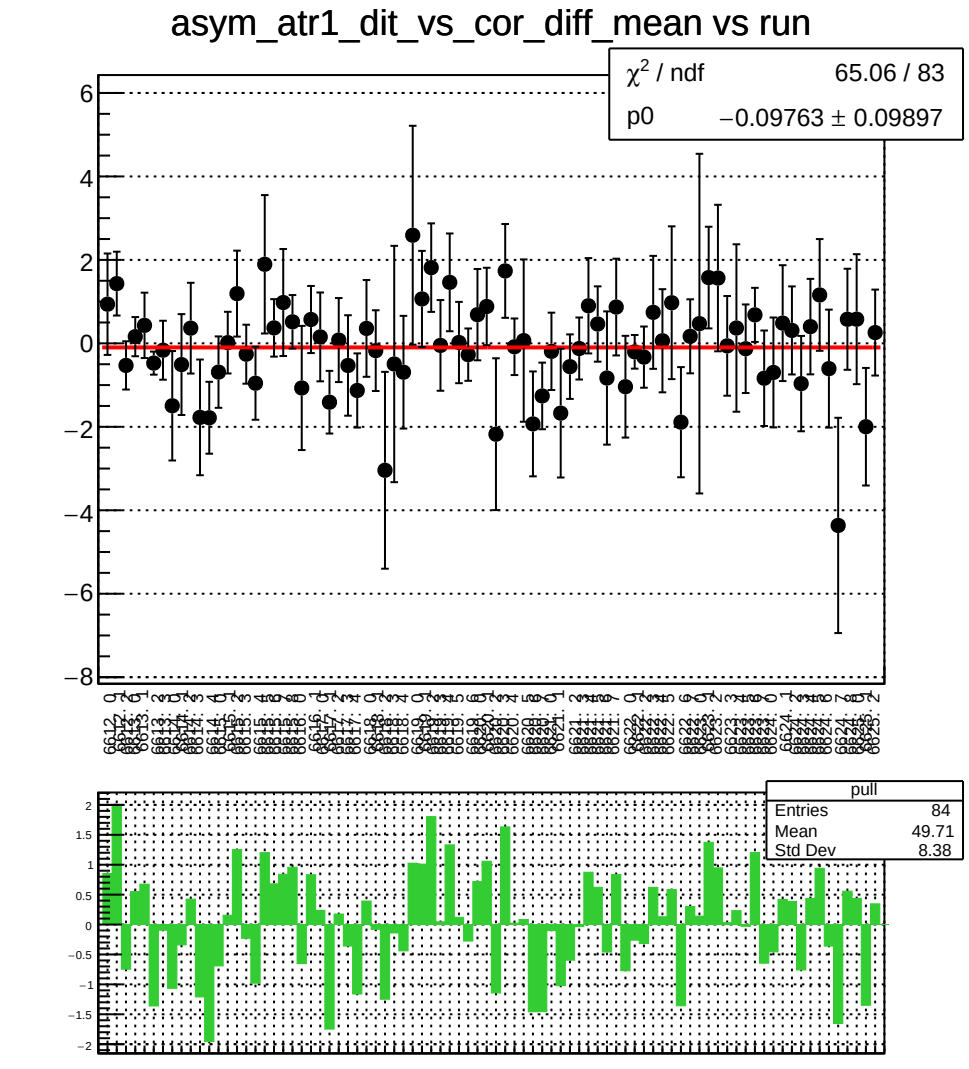

asym_atr1_mean vs run
×10^3
χ² / ndf 84.7 / 83
p0 602.1 ± 3304
100
50
0
−50
−100
−150
pull
Entries 84
Mean 25.42
Std Dev 66.81
2
1
0
−1
−2
−3

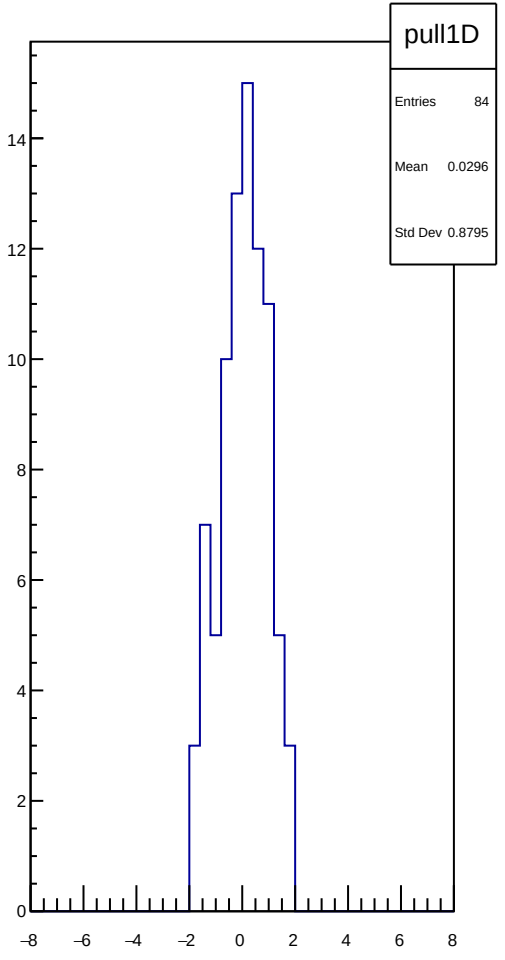

pull1D
Entries 84
Mean −0.01207
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

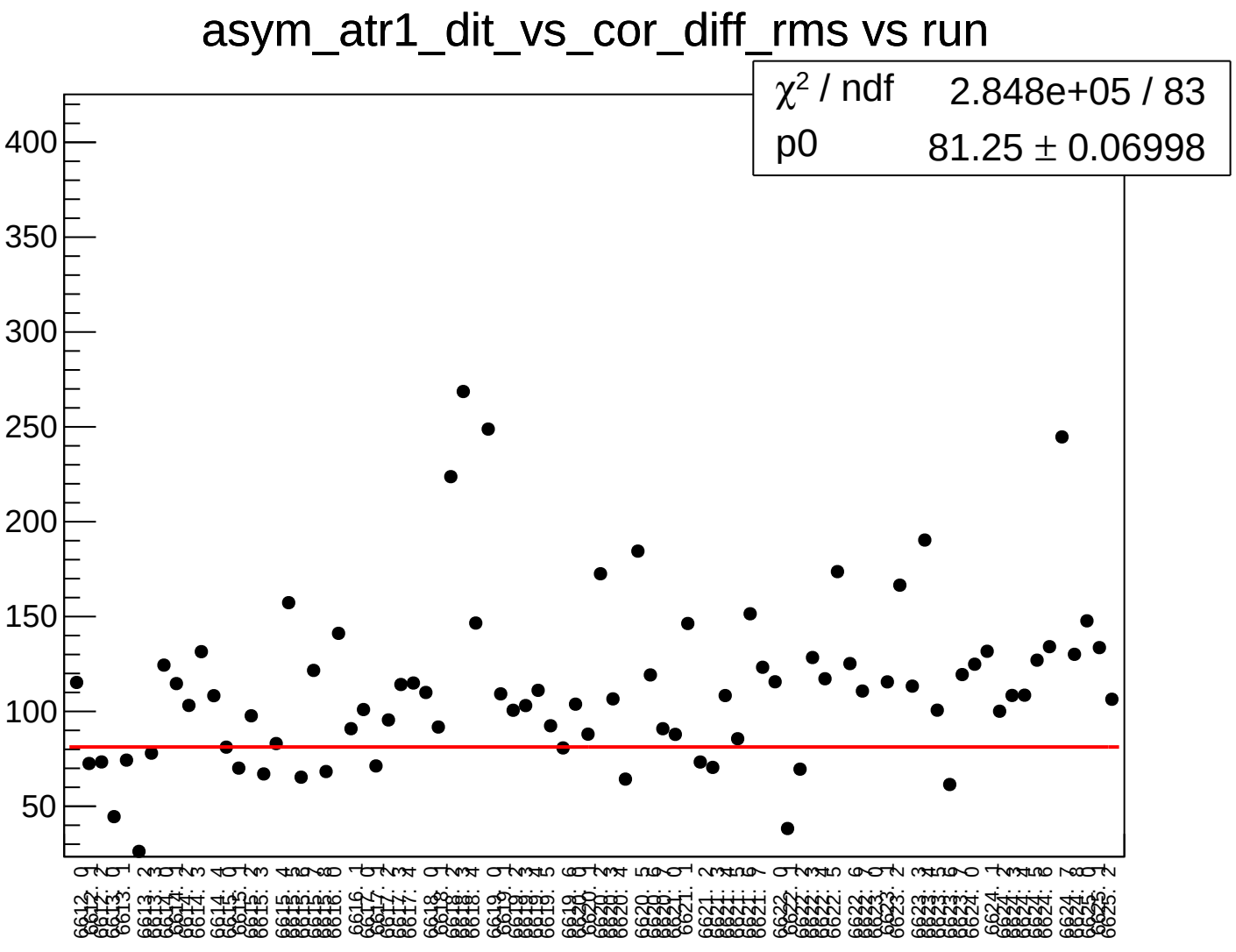

asym_atr1_rms vs run
χ² / ndf 631.6 / 83
p0 2985 ± 2.337
3300
3200
3100
3000
2900

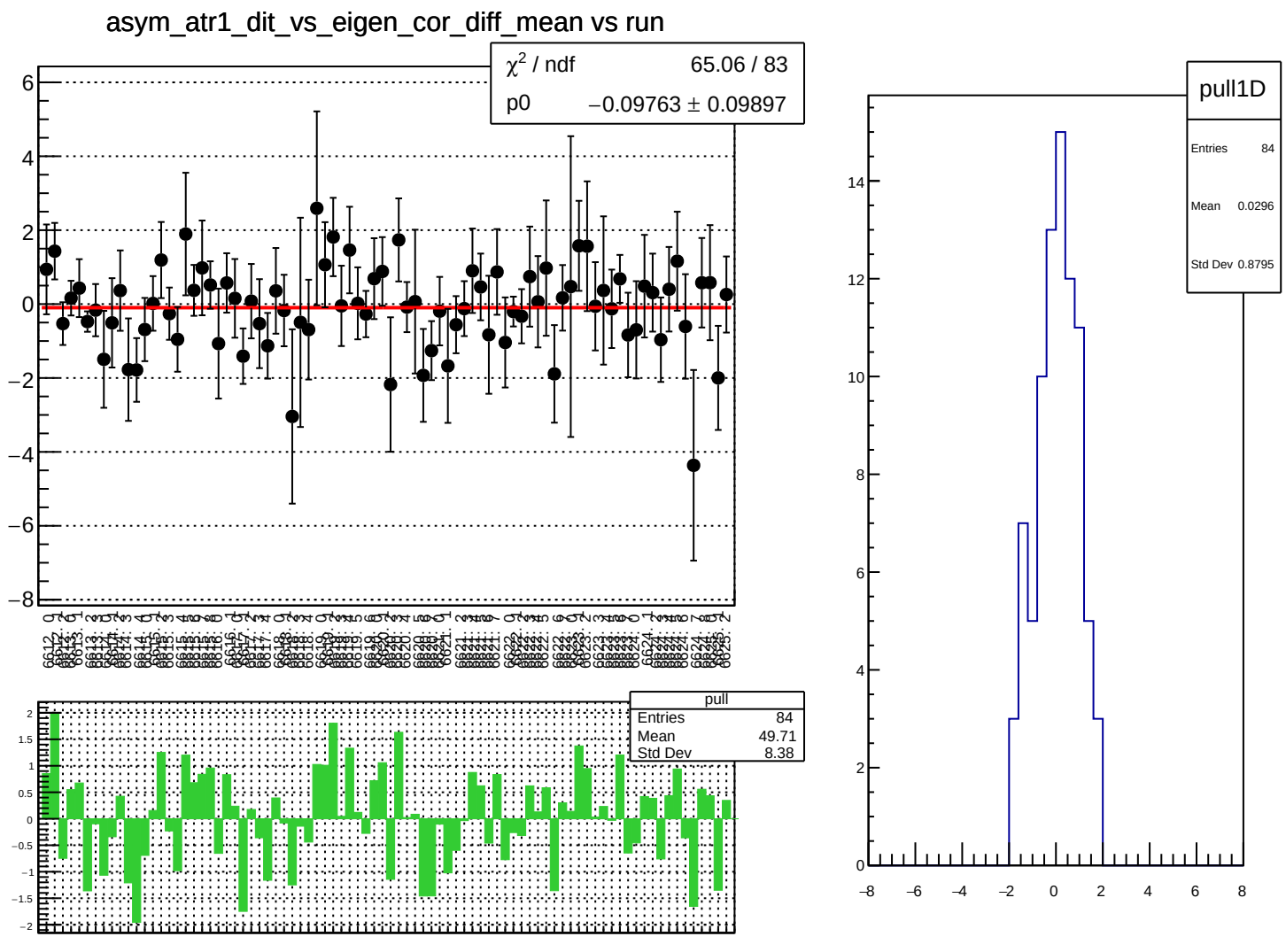

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 64.48 / 83
p0 2.93e−14 ± 2.756e−14
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
pull
Entries 84
Mean −2.559
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.07281
Std Dev 0.8731
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

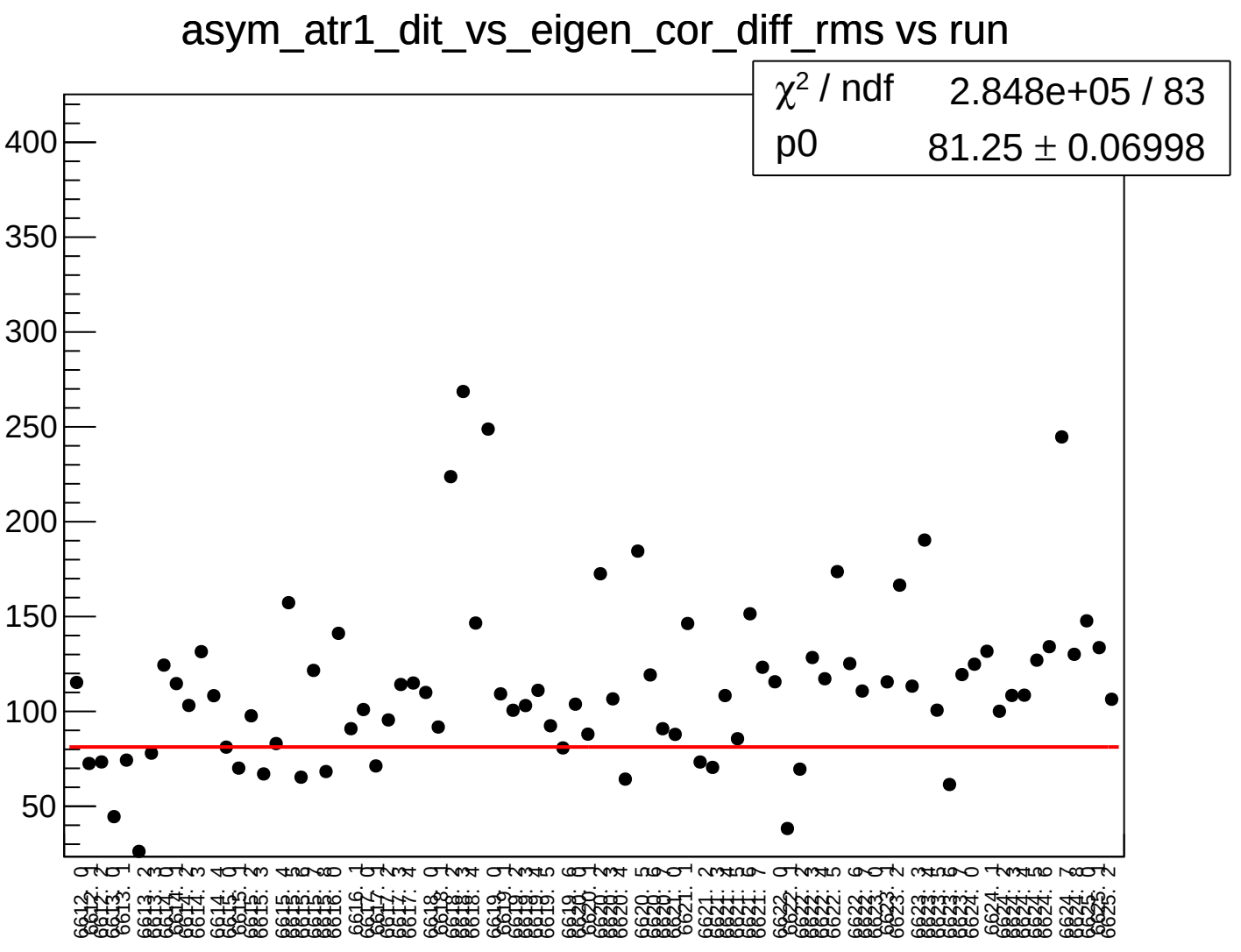

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.05e+06 / 83
p0 1.488e−11 ± 1.949e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

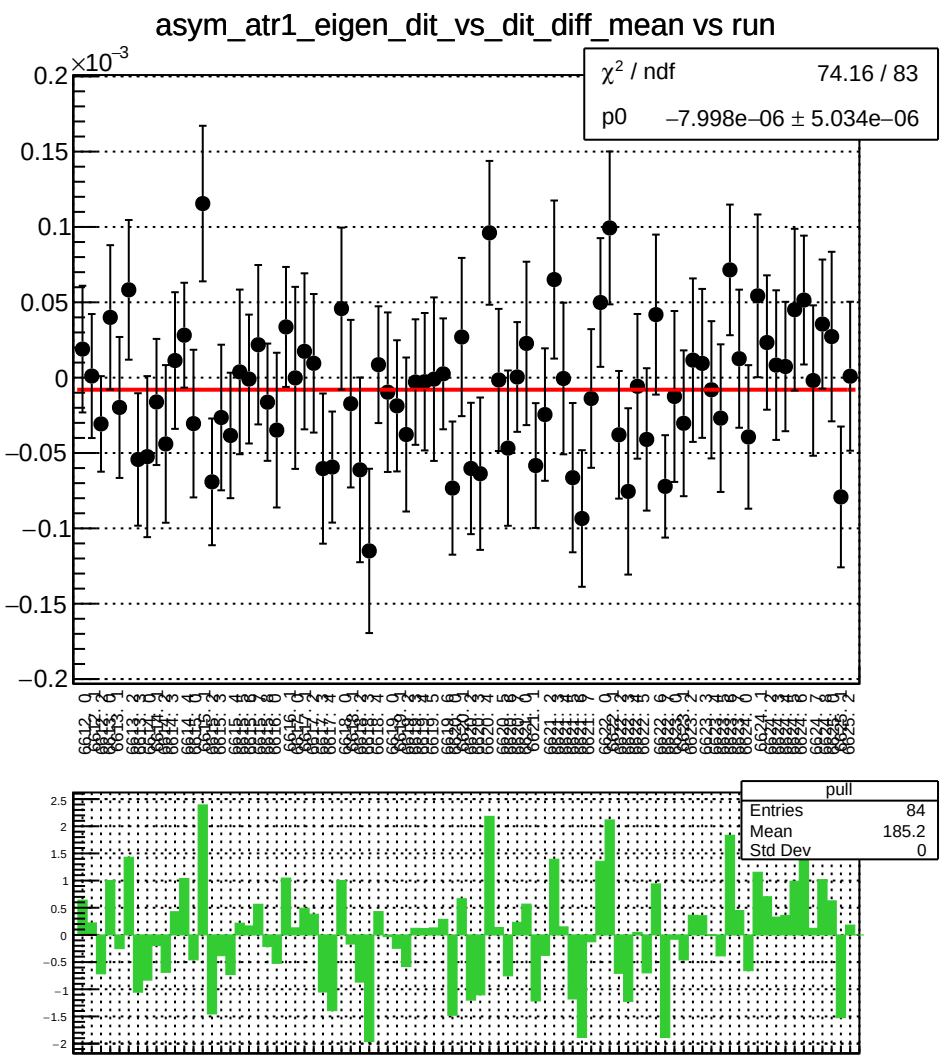

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 65.06 / 83
p0 −0.09763 ± 0.09897
pull
Entries 84
Mean 49.71
Std Dev 8.38

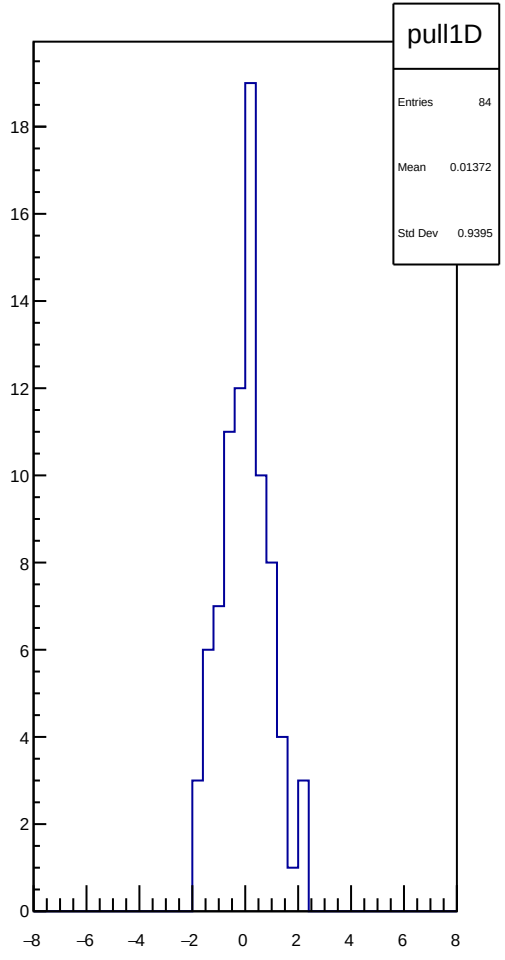

pull1D
Entries 84
Mean 0.0296
Std Dev 0.8795

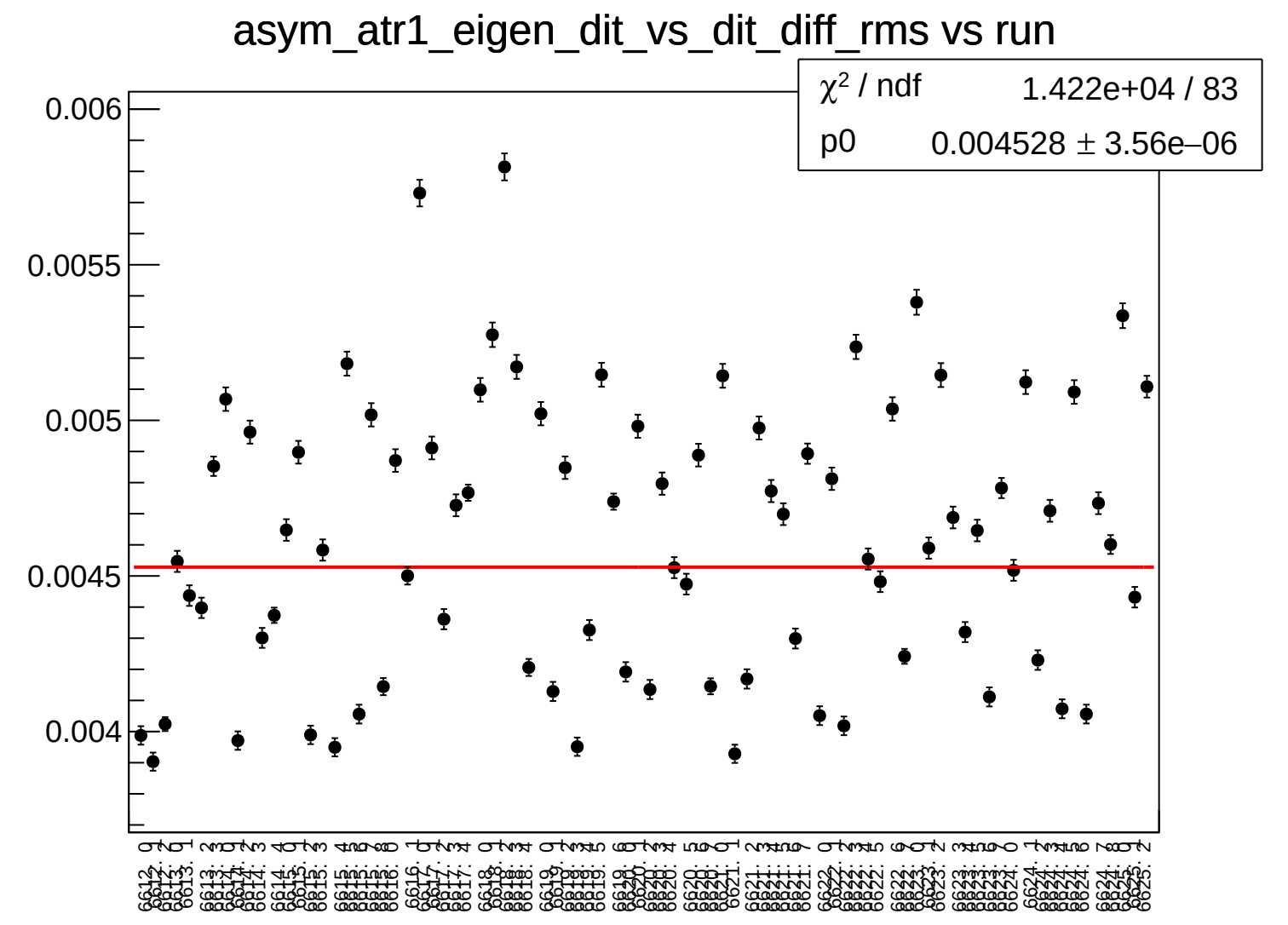

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.848e+05 / 83
p0 81.25 ± 0.06998
400
350
300
250
200
150
100
50

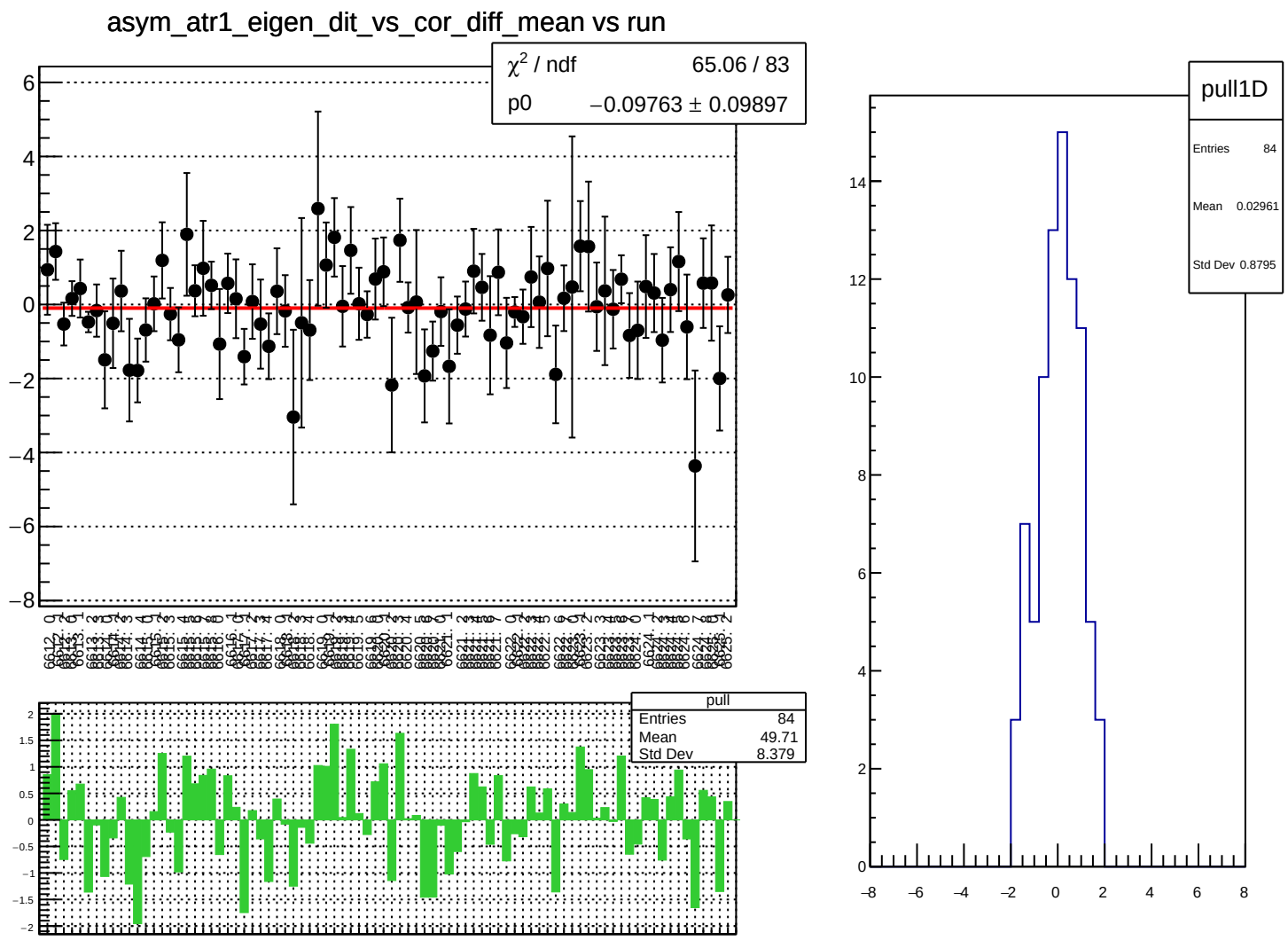

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.06 / 83
p0 −0.09763 ± 0.09897
pull
Entries 84
Mean 49.71
Std Dev 8.38
pull1D
Entries 84
Mean 0.0296
Std Dev 0.8795

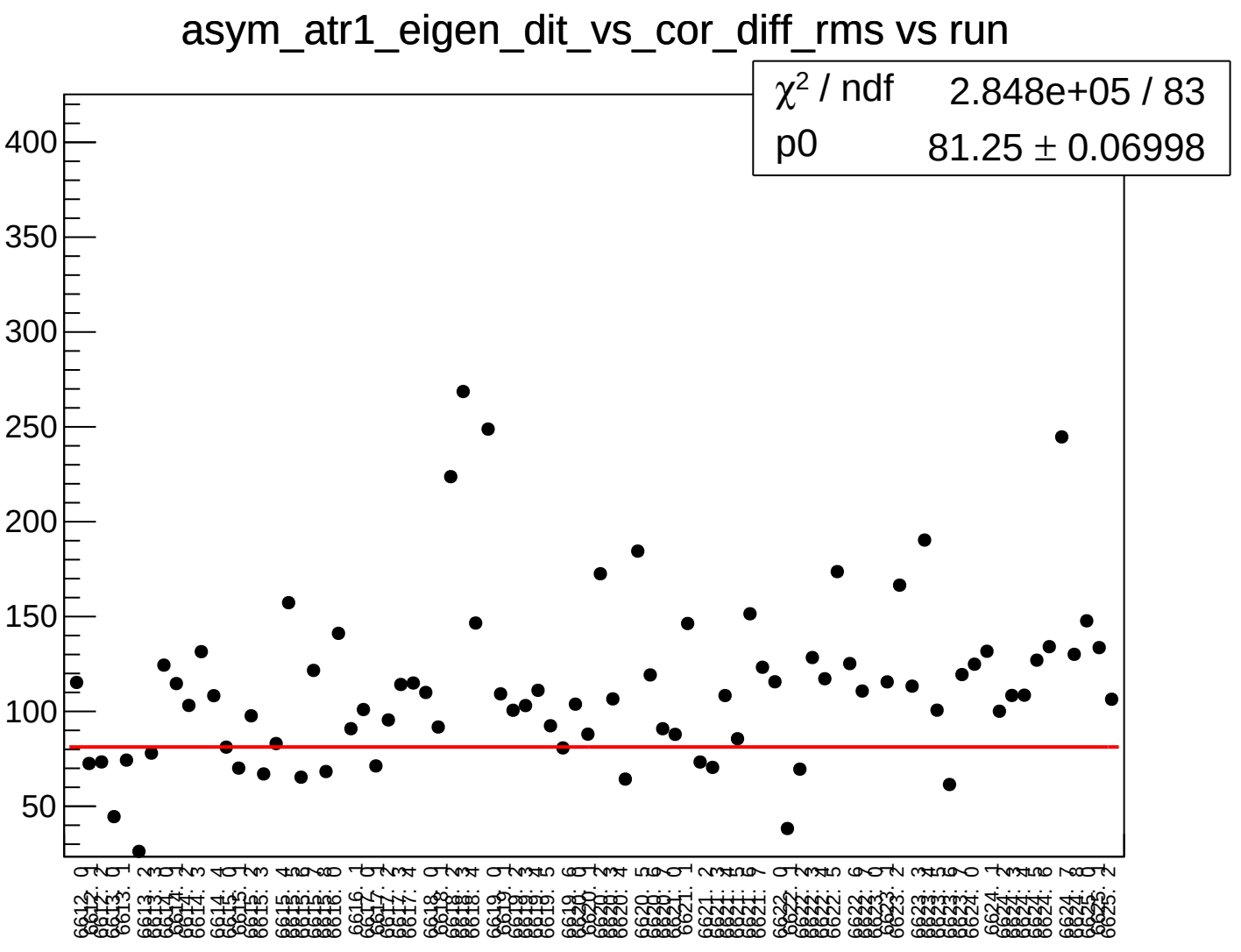

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.848e+05 / 83
p0 81.25 ± 0.06998
400
350
300
250
200
150
100
50

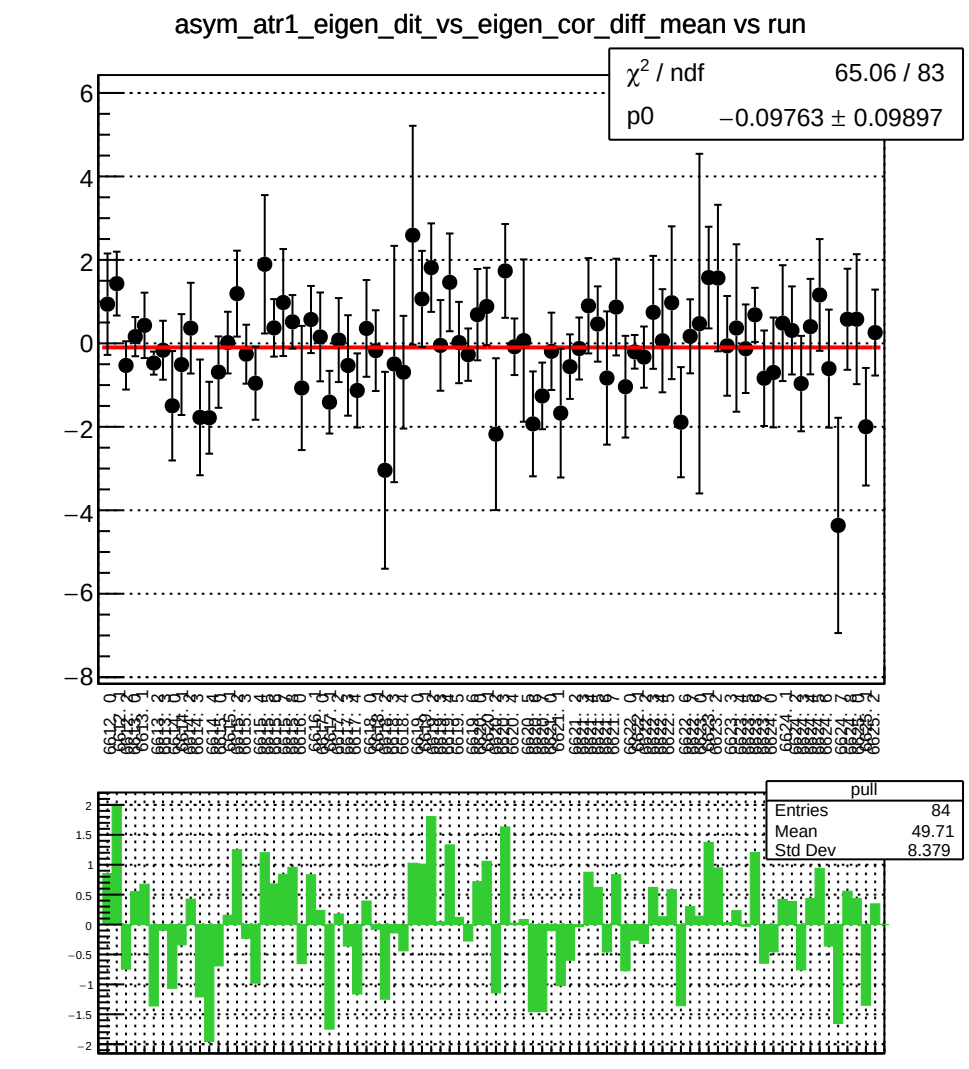

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 74.16 / 83
p0 −7.998e−06 ± 5.034e−06
×10⁻³
pull
Entries 84
Mean 185.2
Std Dev 0

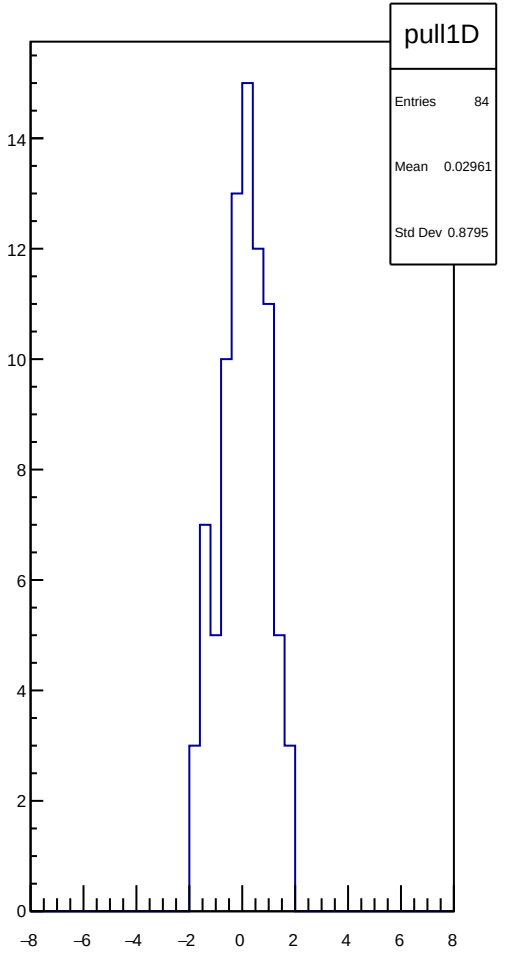

pull1D
Entries 84
Mean 0.01372
Std Dev 0.9395

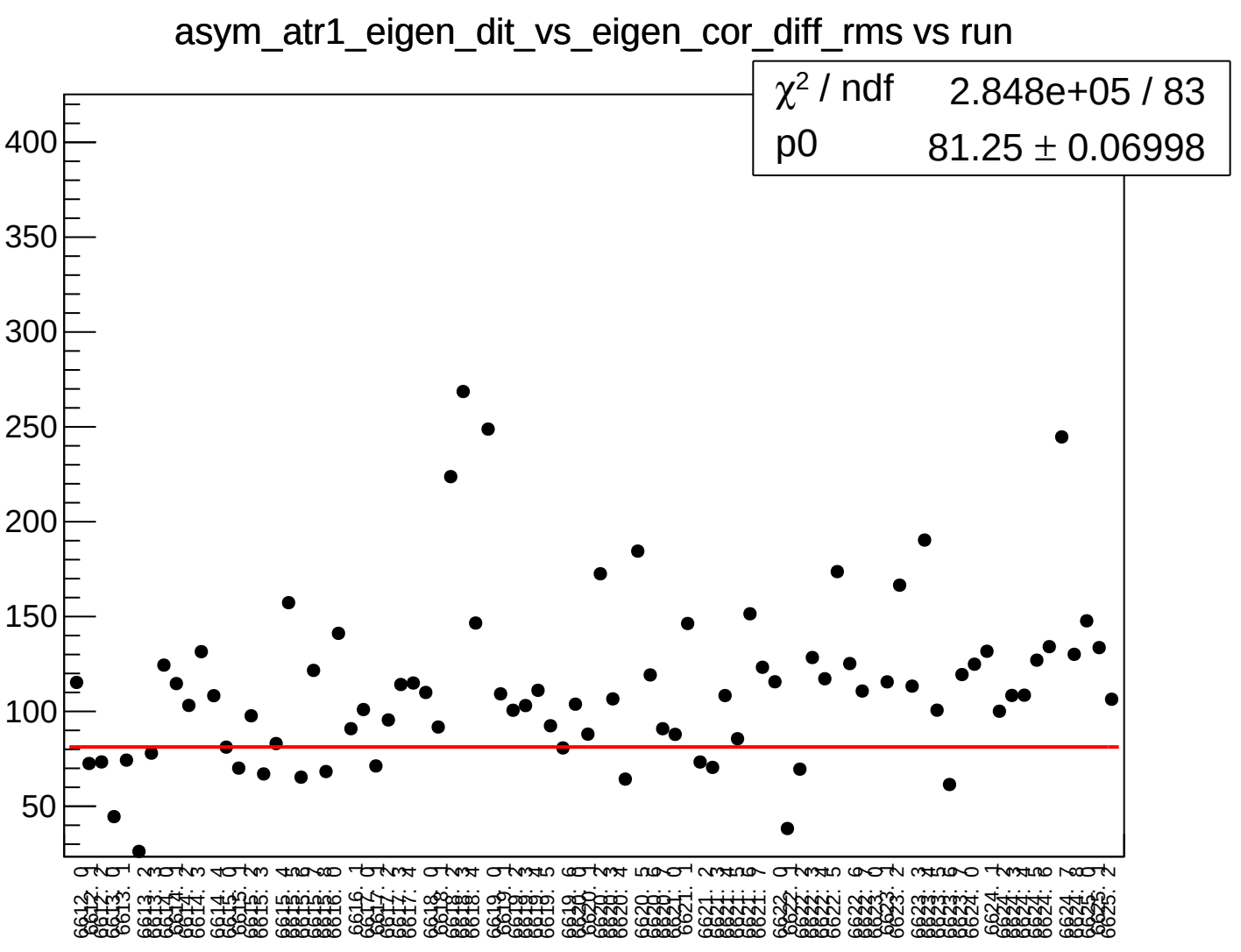

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.422e+04 / 83
p0 0.004528 ± 3.56e−06
0.006
0.0055
0.005
0.0045
0.004

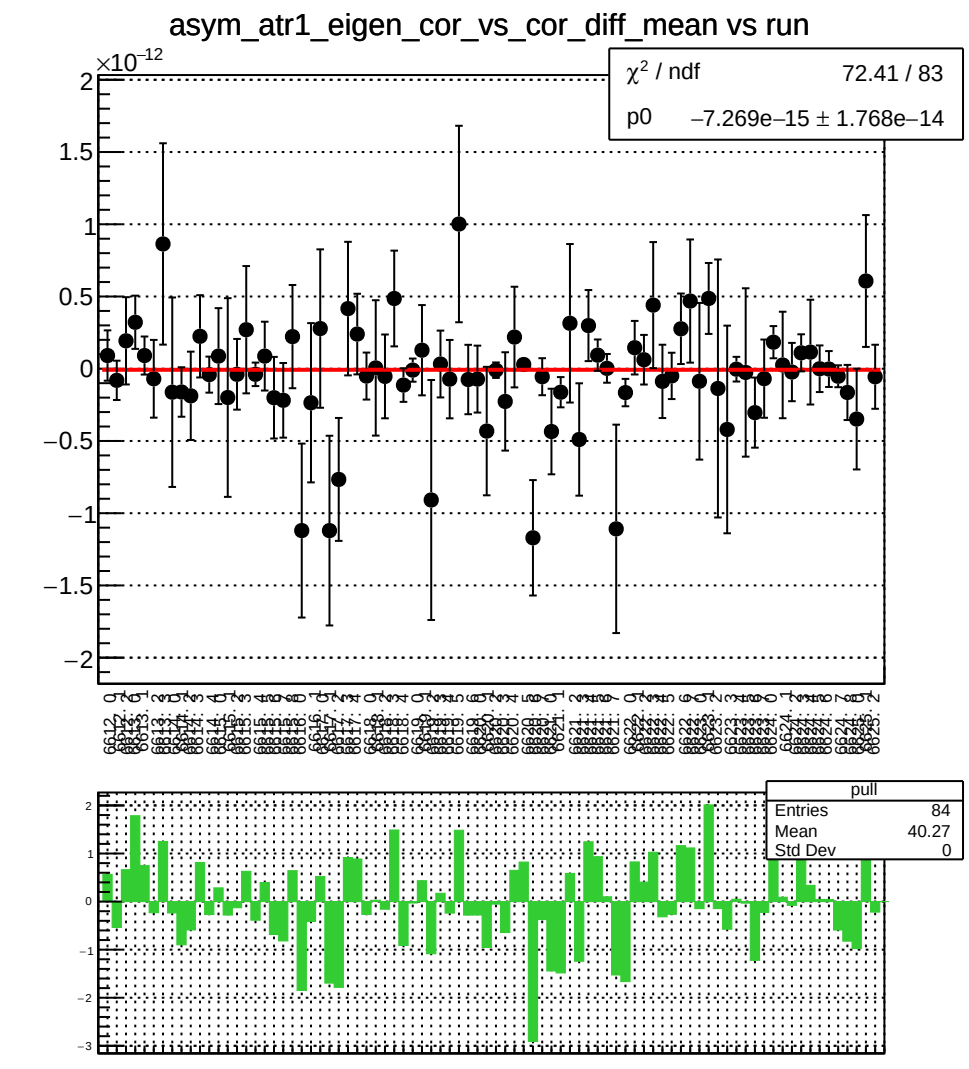

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.06 / 83
p0 −0.09763 ± 0.09897
pull
Entries 84
Mean 49.71
Std Dev 8.379
pull1D
Entries 84
Mean 0.02961
Std Dev 0.8795

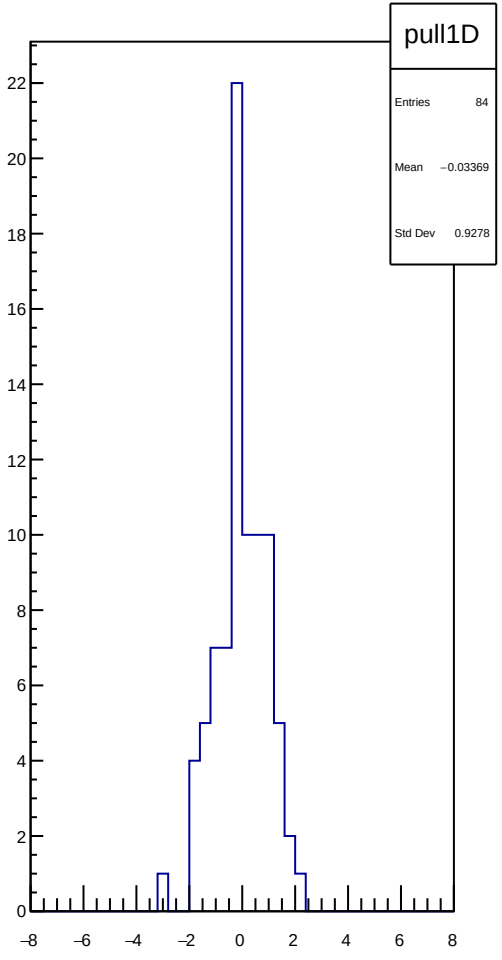

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.848e+05 / 83
p0 81.25 ± 0.06998
400
350
300
250
200
150
100
50

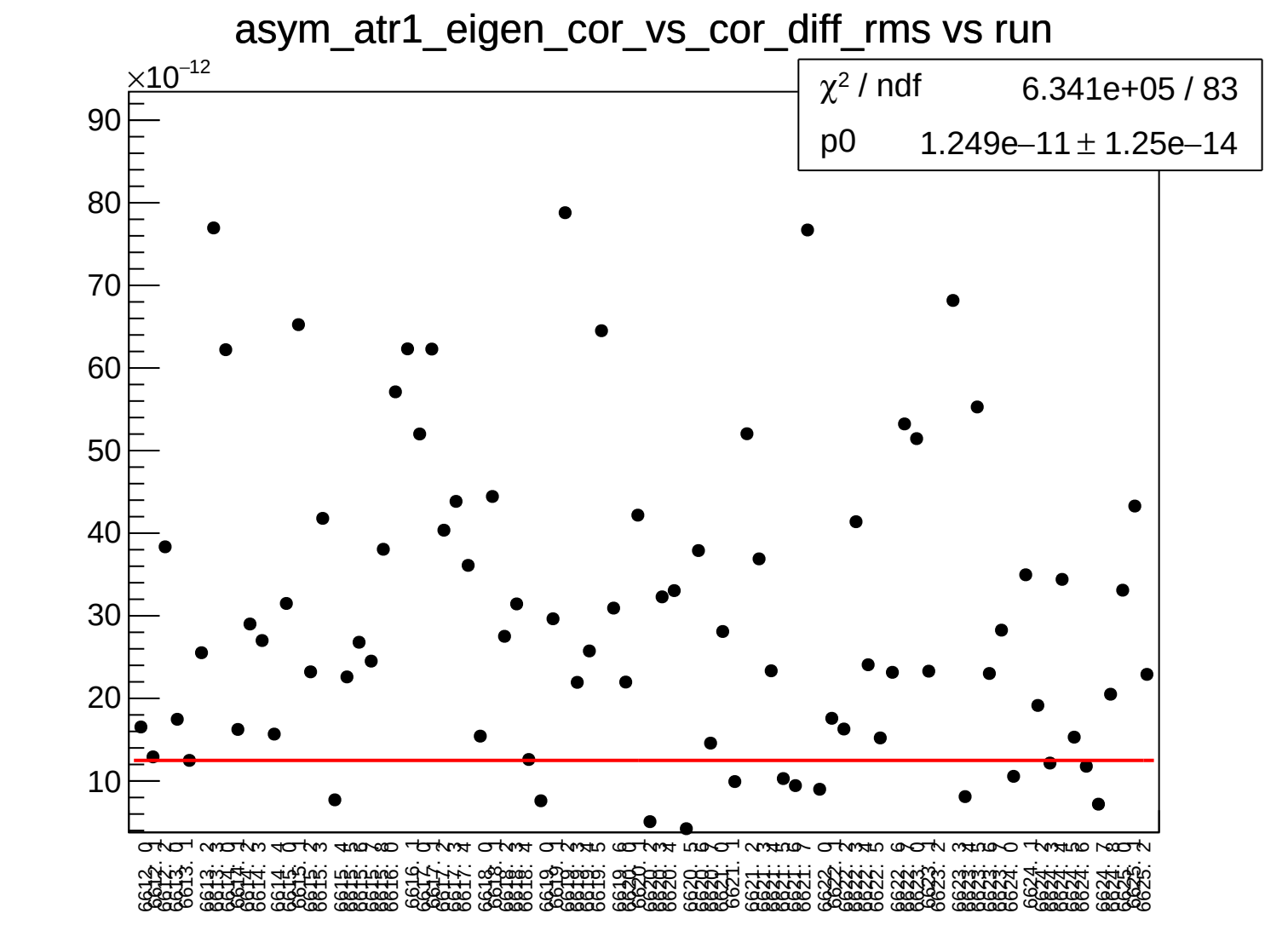

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.06 / 83
p0 −0.09763 ± 0.09897
pull
Entries 84
Mean 49.71
Std Dev 8.379

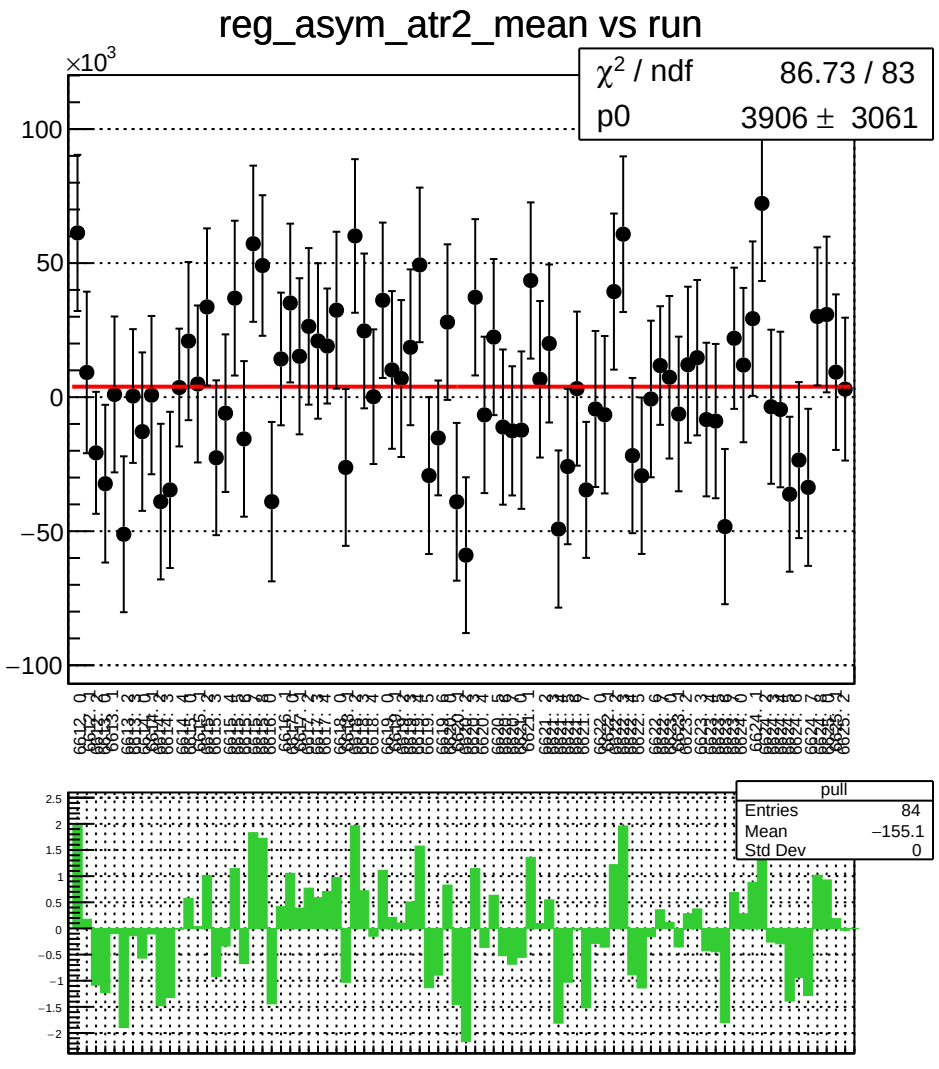

pull1D
Entries 84
Mean 0.02961
Std Dev 0.8795

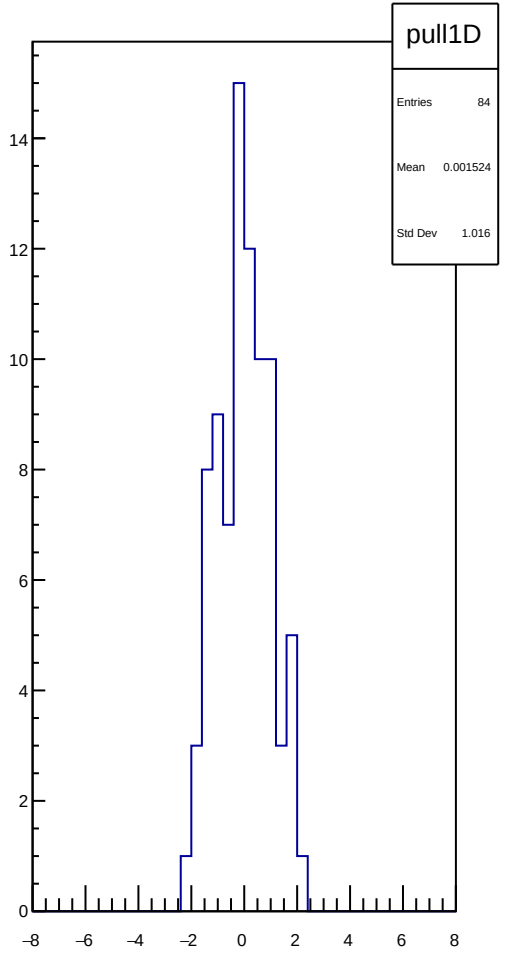

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.848e+05 / 83
p0 81.25 ± 0.06998
400
350
300
250
200
150
100
50

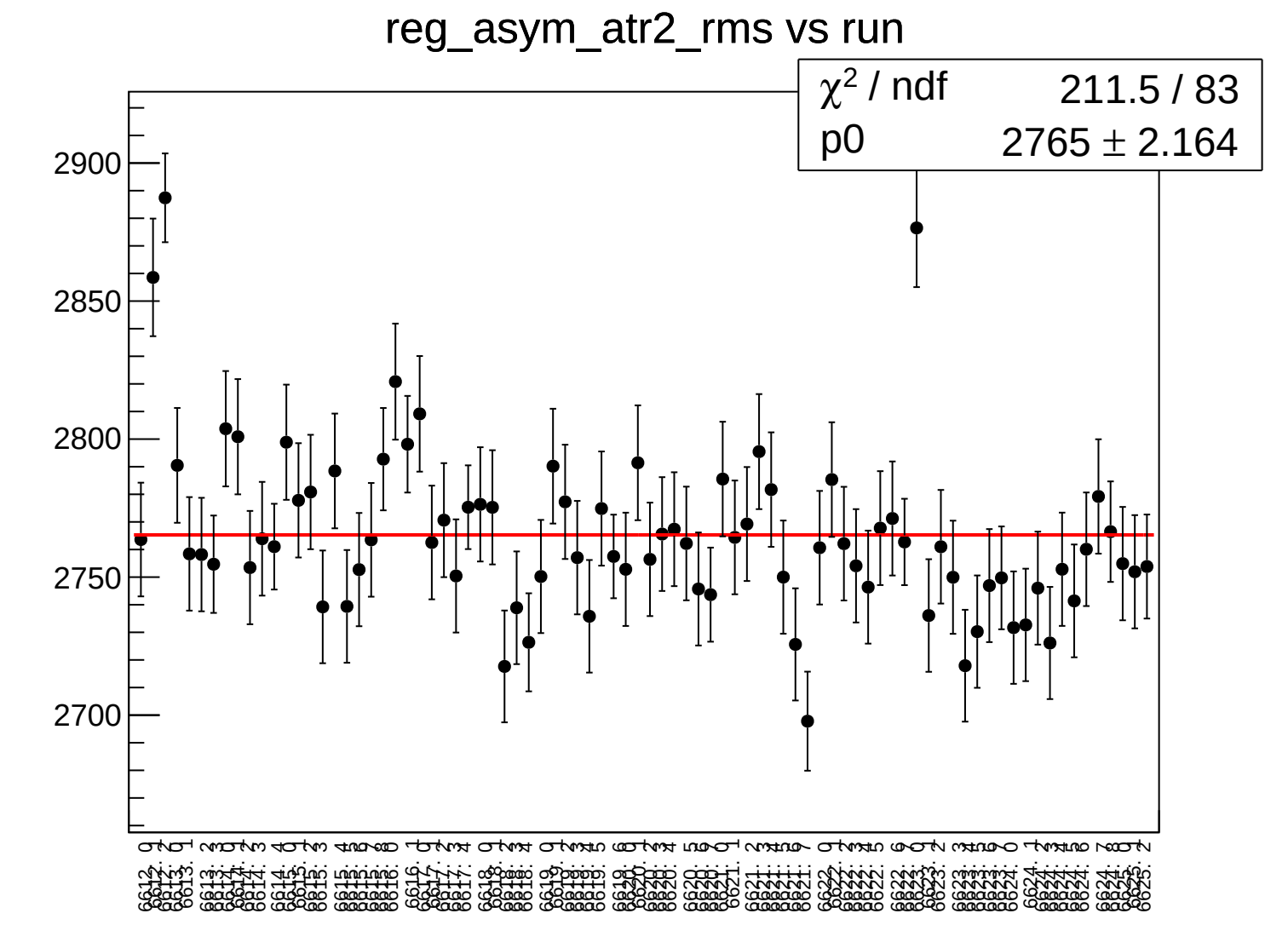

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.41 / 83
p0 −7.269e−15 ± 1.768e−14
pull
Entries 84
Mean 40.27
Std Dev 0

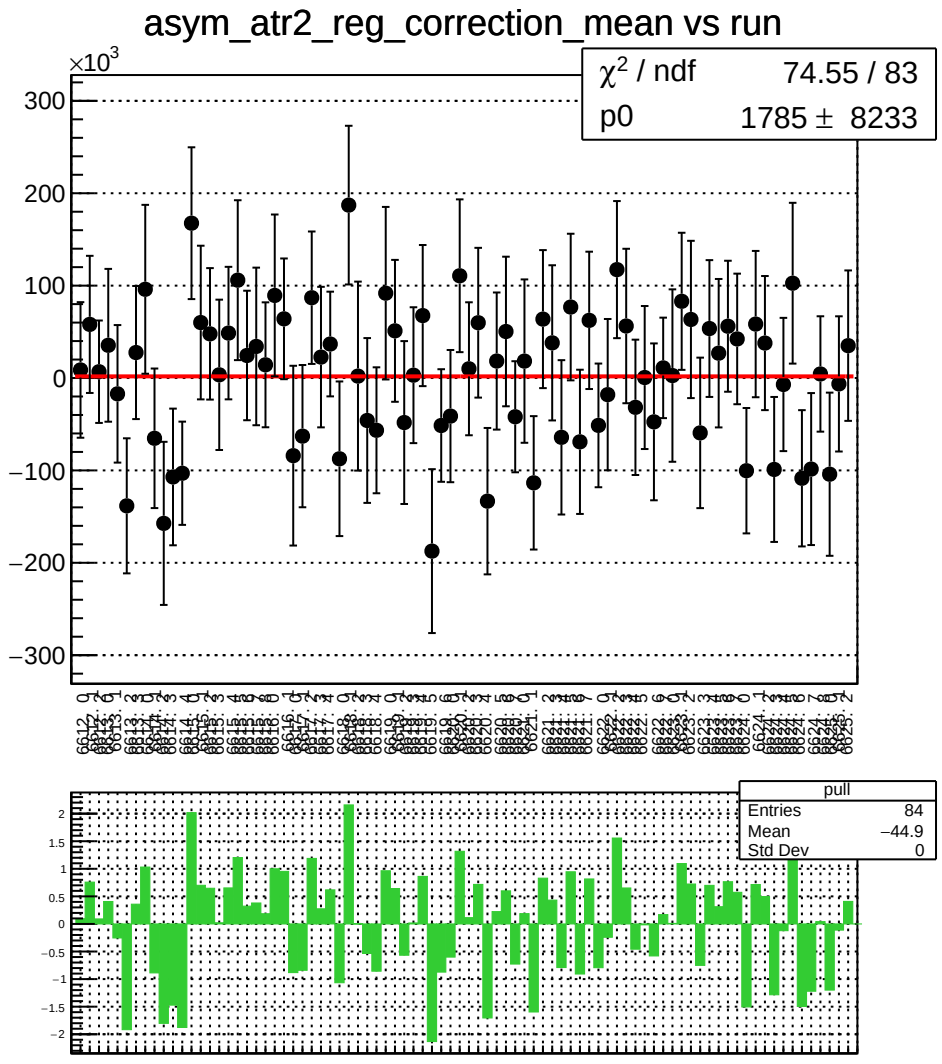

pull1D
Entries 84
Mean −0.03369
Std Dev 0.9278

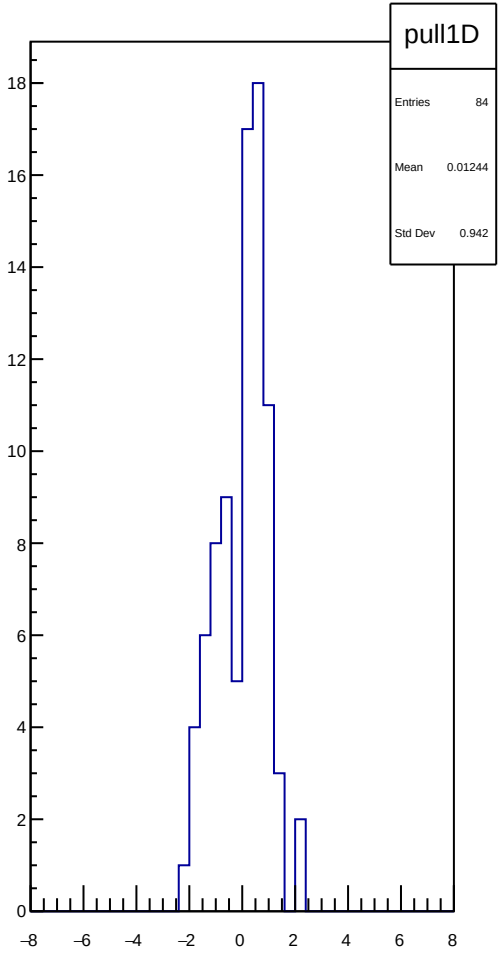

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.341e+05 / 83
p0 1.249e−11 ± 1.25e−14
90
80
70
60
50
40
30
20
10

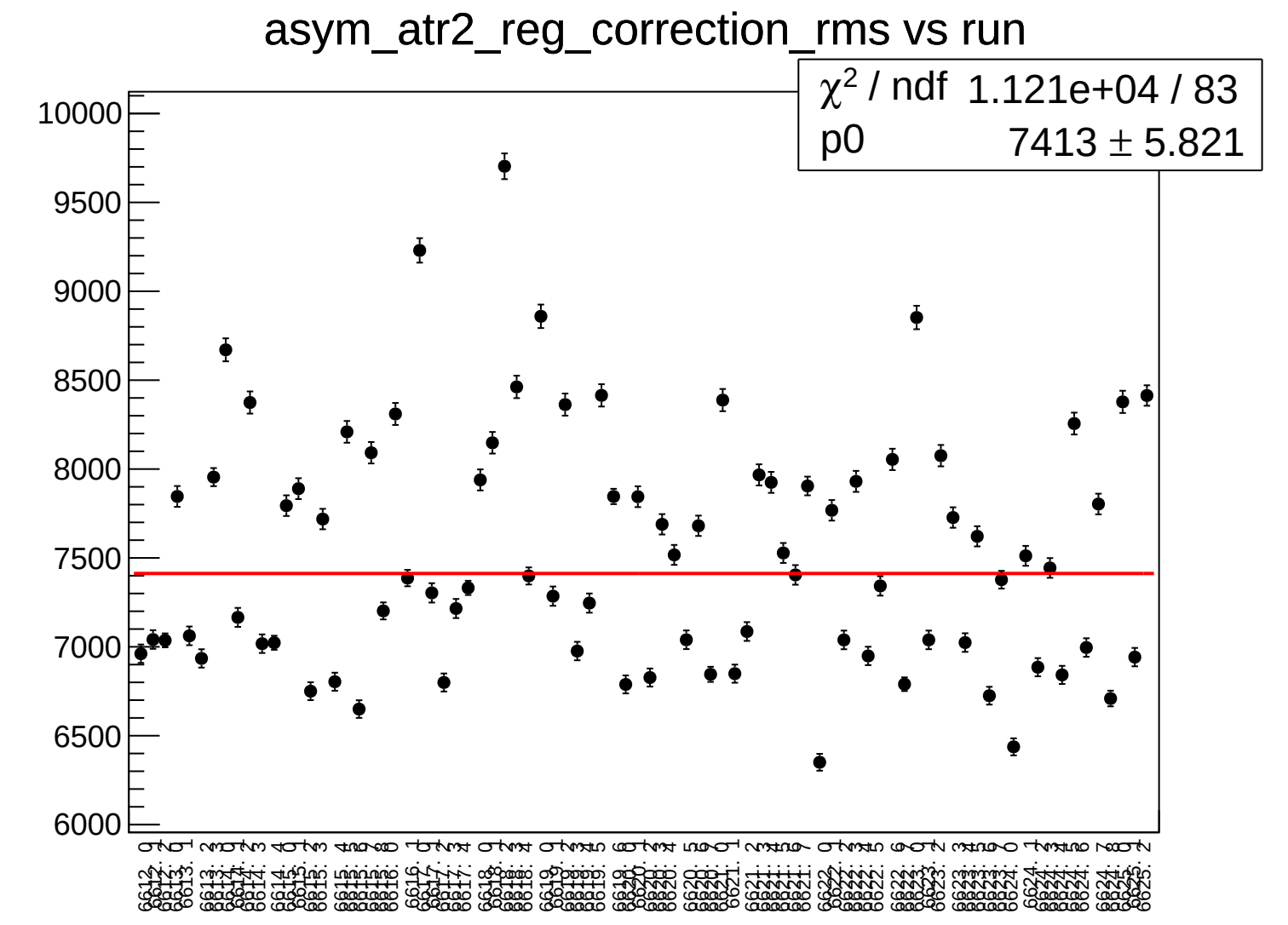

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 86.73 / 83
p0 3906 ± 3061
100
50
0
−50
−100
pull
Entries 84
Mean −155.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

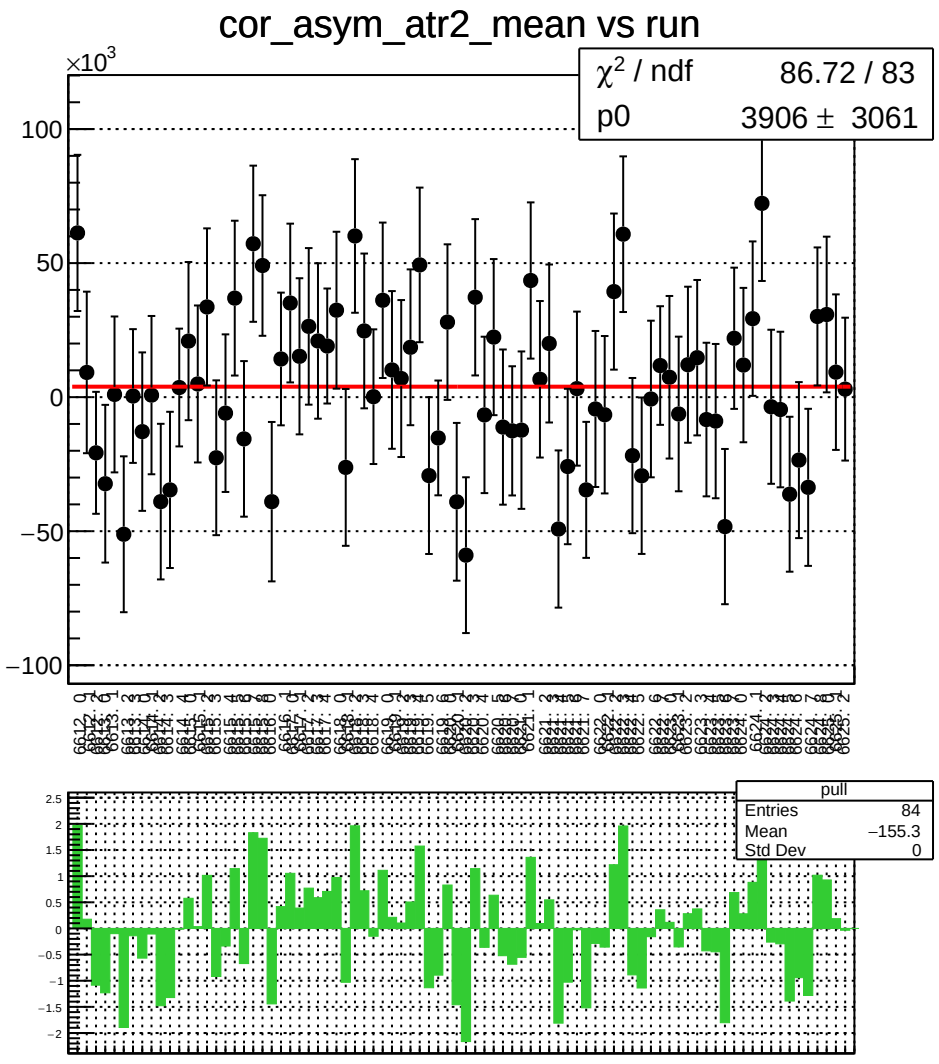

pull1D
Entries 84
Mean 0.001524
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

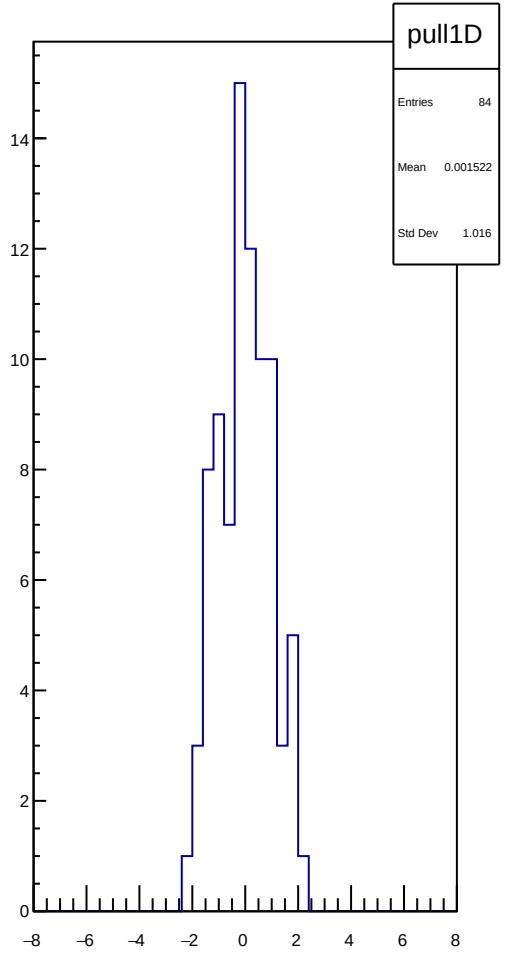

reg_asym_atr2_rms vs run
χ^2 / ndf 211.5 / 83
p0 2765 ± 2.164
2900
2850
2800
2750
2700

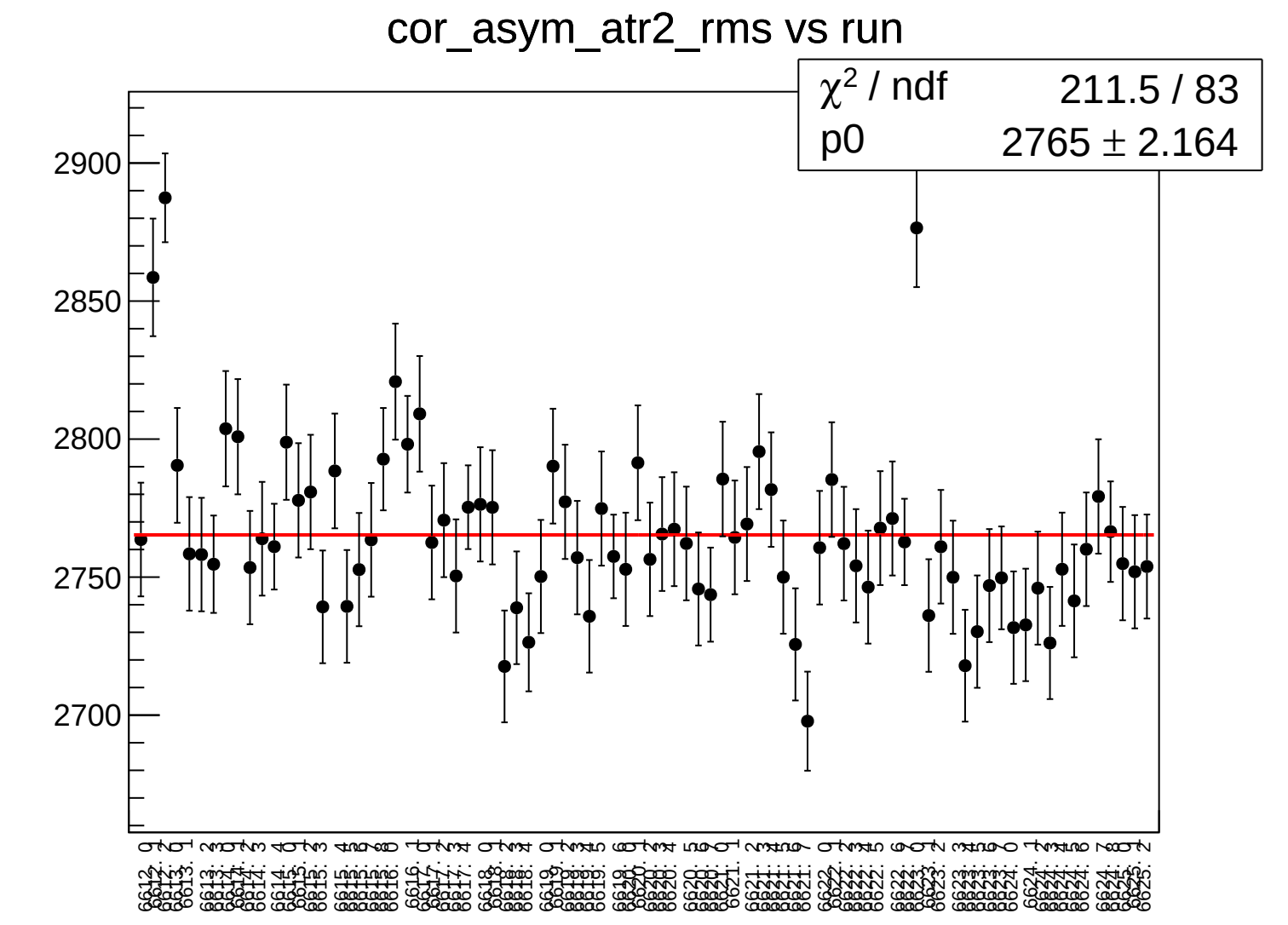

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 74.55 / 83
p0 1785 ± 8233
pull
Entries 84
Mean −44.9
Std Dev 0

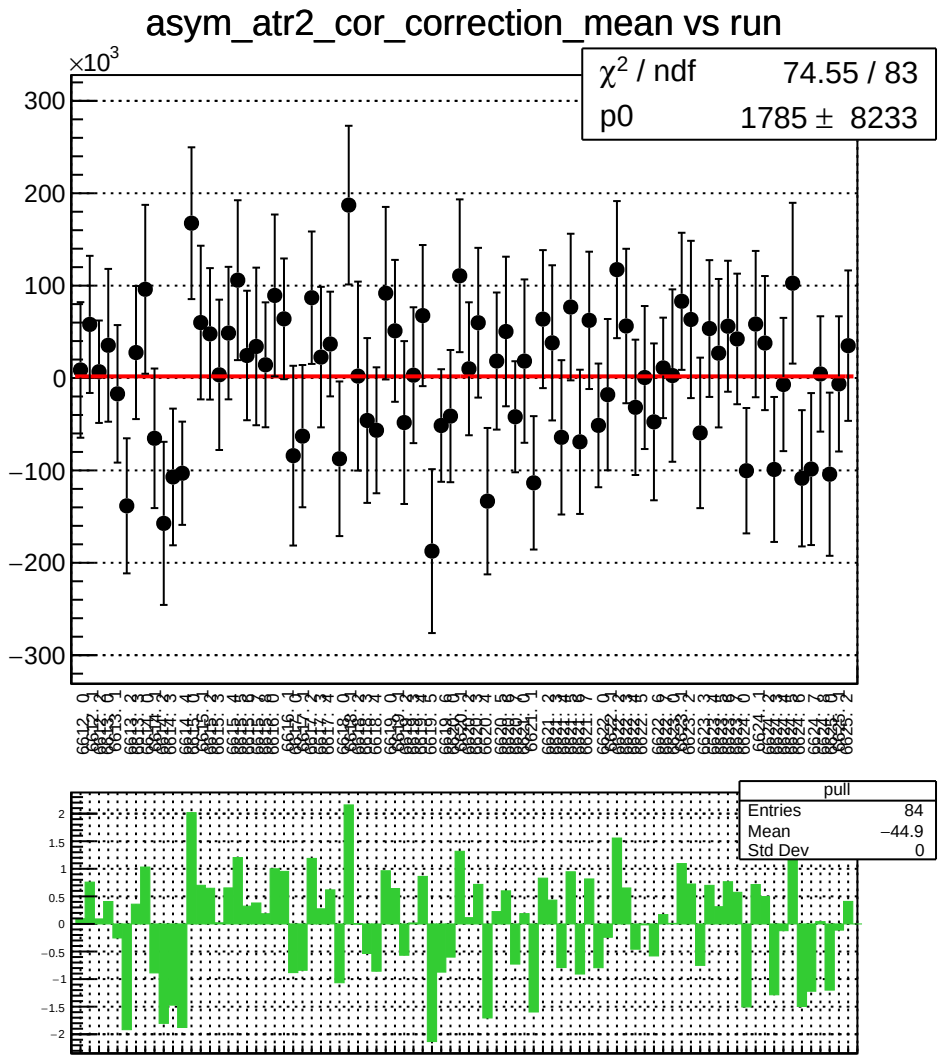

pull1D
Entries 84
Mean 0.01244
Std Dev 0.942

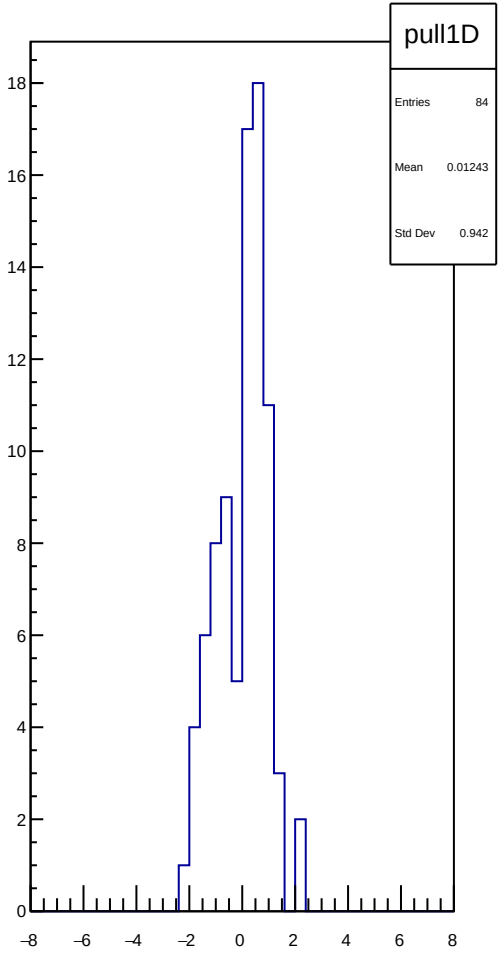

asym_atr2_reg_correction_rms vs run
χ² / ndf 1.121e+04 / 83
p0 7413 ± 5.821
10000
9500
9000
8500
8000
7500
7000
6500
6000

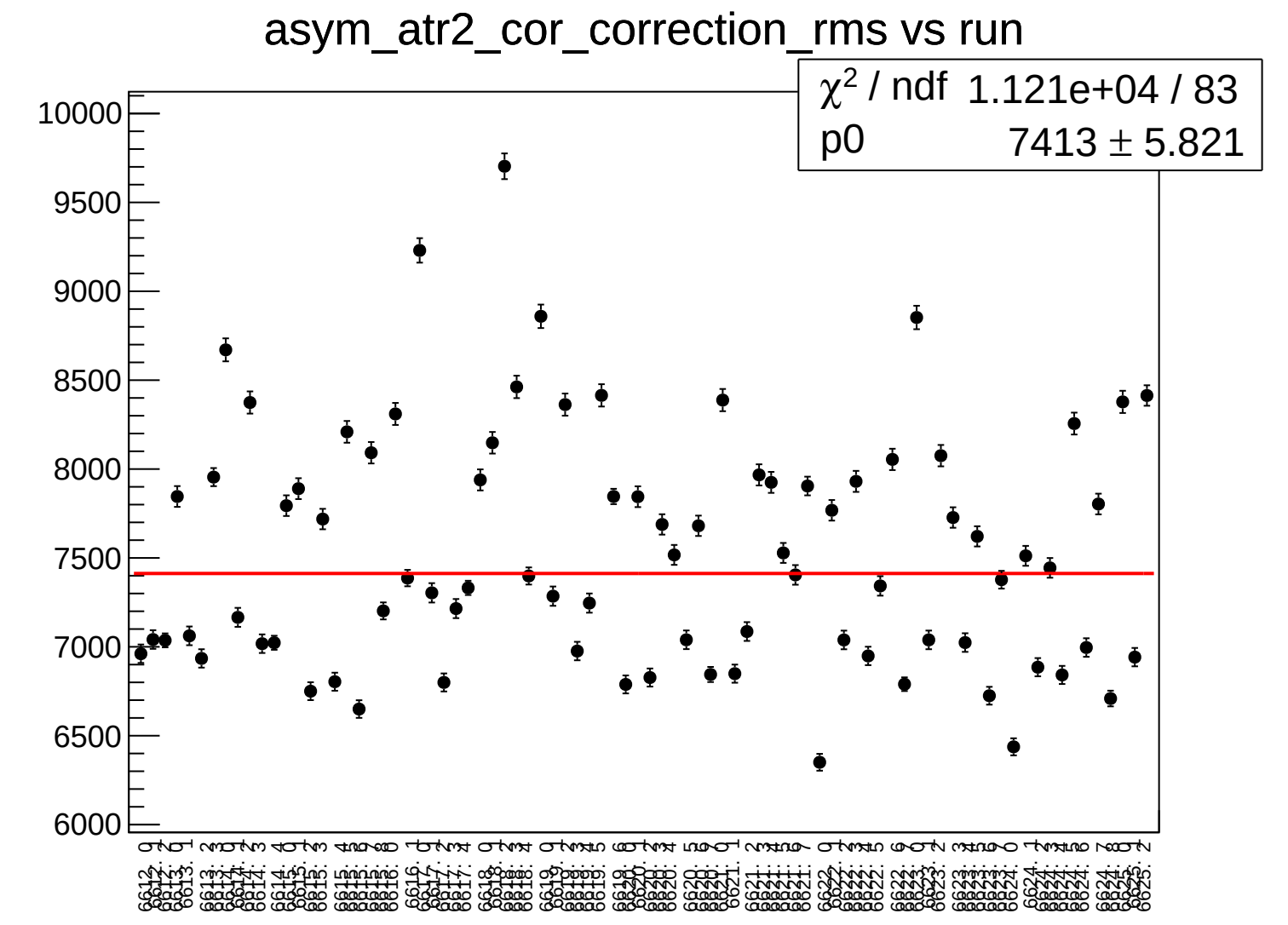

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 86.72 / 83
p0 3906 ± 3061
100
50
0
−50
−100
pull
Entries 84
Mean −155.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

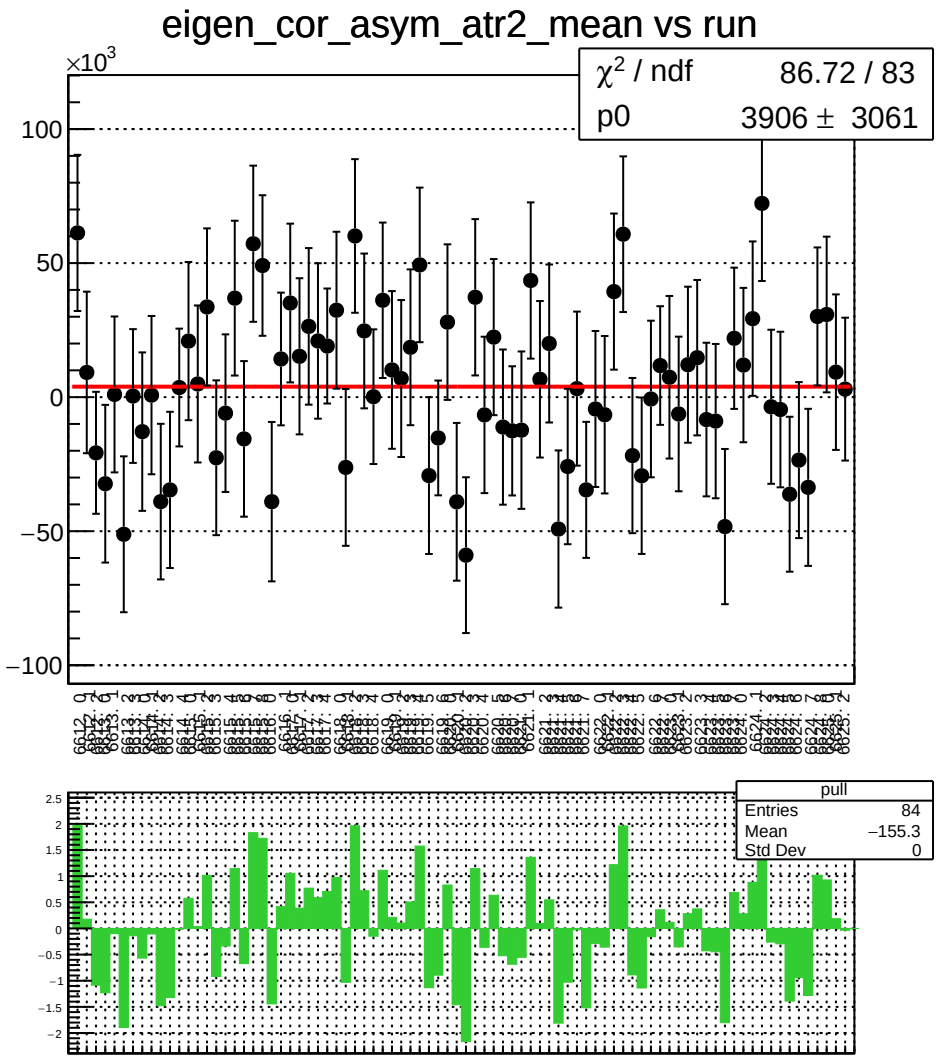

pull1D
Entries 84
Mean 0.001522
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

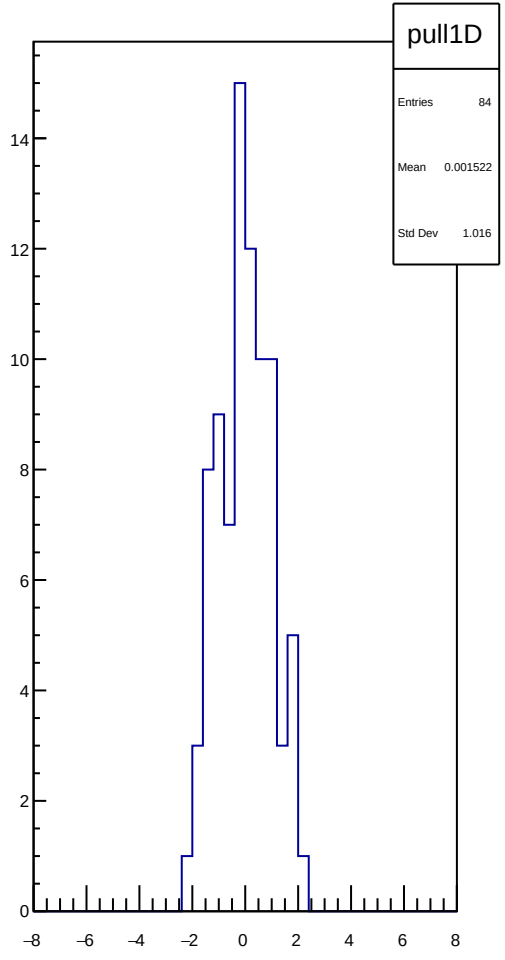

cor_asym_atr2_rms vs run
χ² / ndf 211.5 / 83
p0 2765 ± 2.164
2900
2850
2800
2750
2700

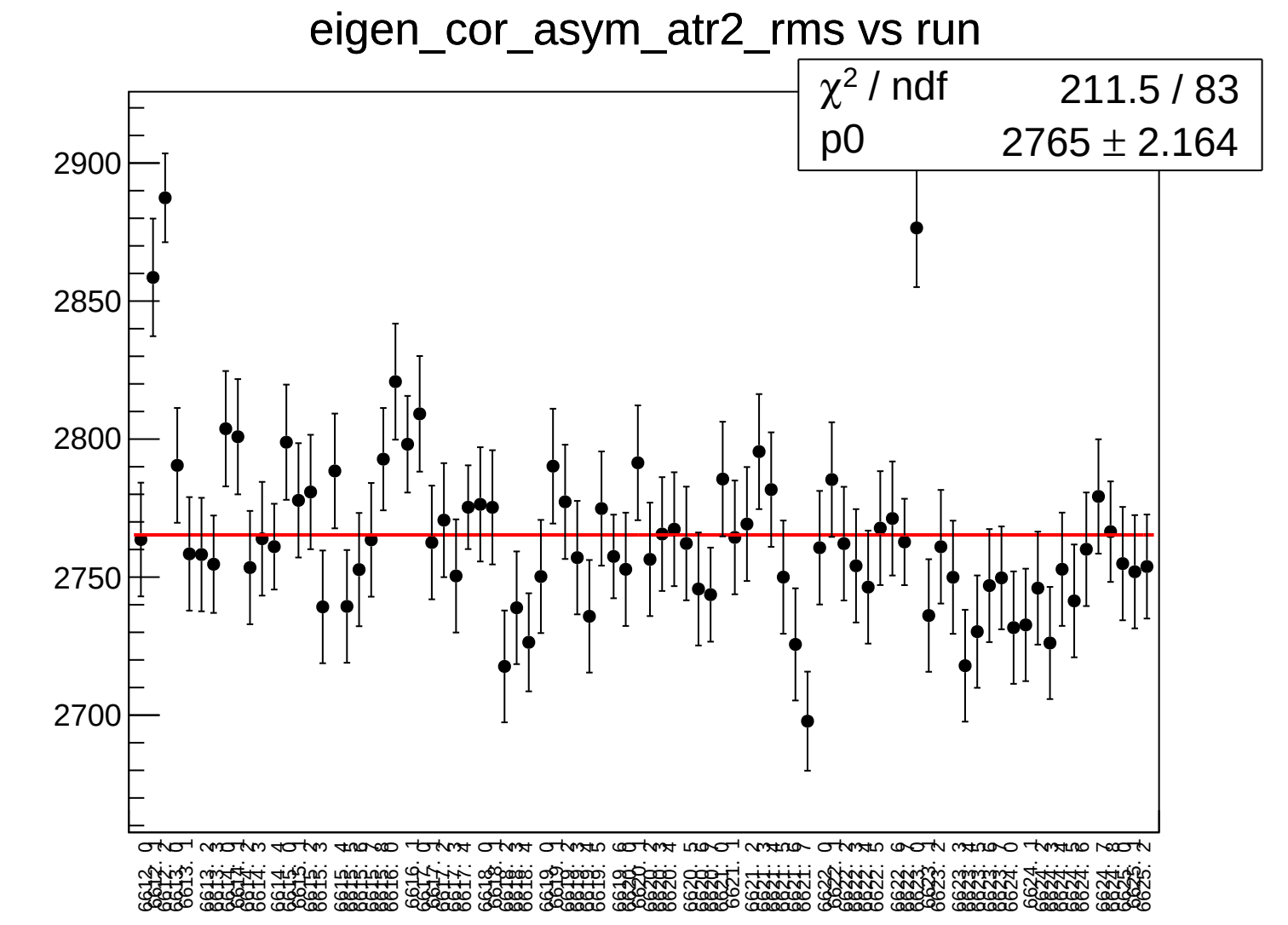

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 74.55 / 83
p0 1785 ± 8233
pull
Entries 84
Mean −44.9
Std Dev 0

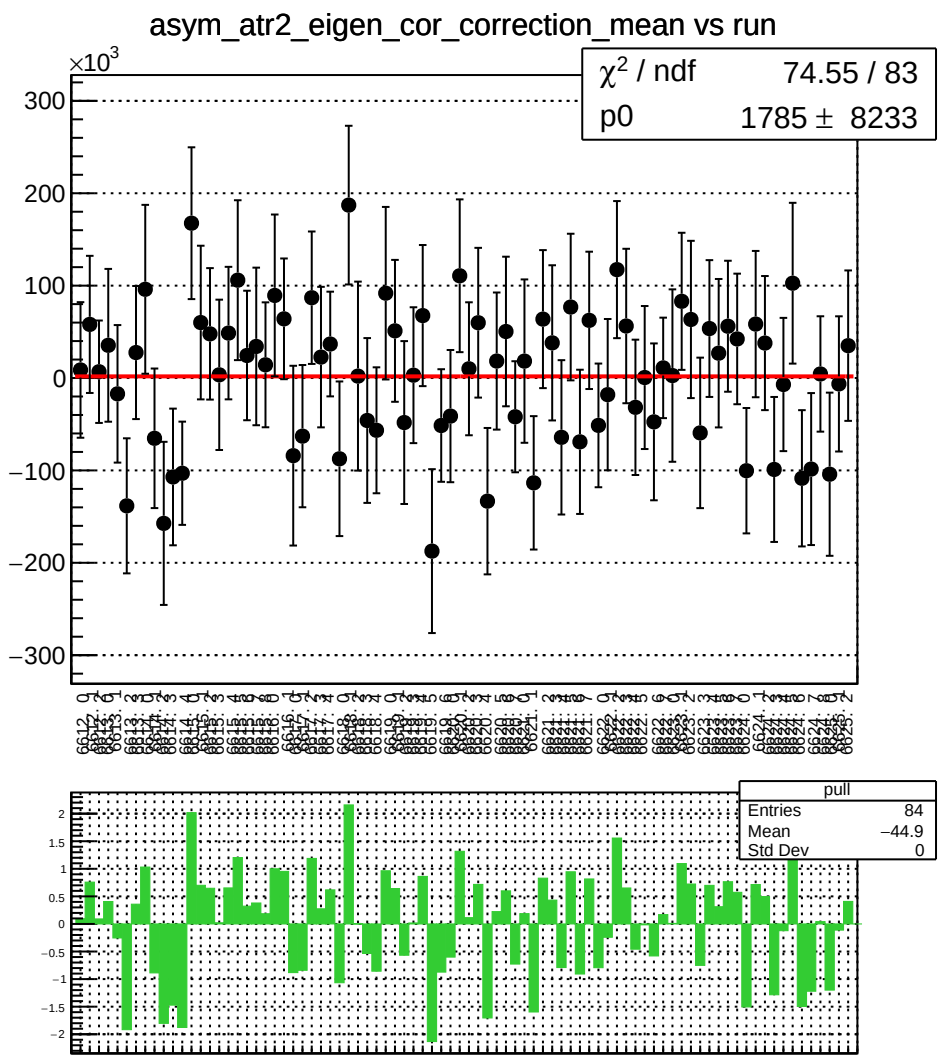

pull1D
Entries 84
Mean 0.01243
Std Dev 0.942

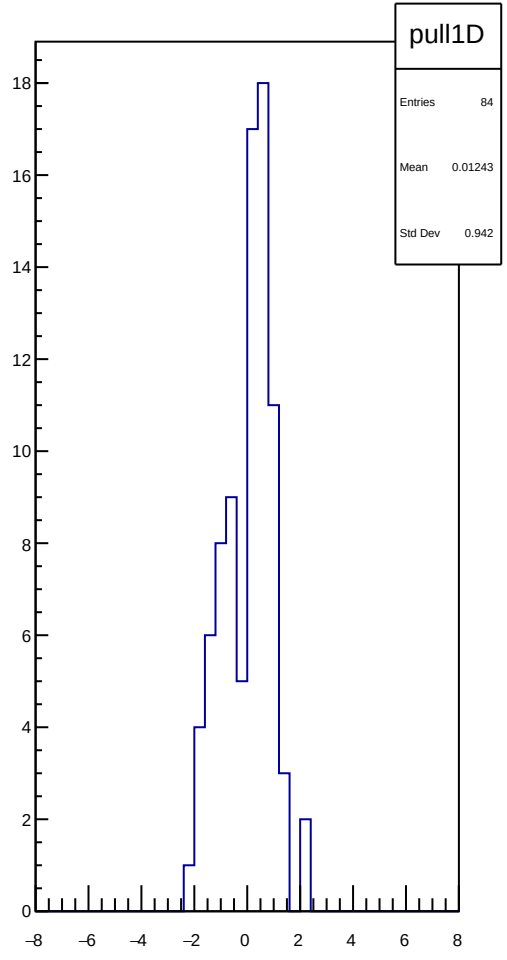

asym_atr2_cor_correction_rms vs run
χ^2 / ndf 1.121e+04 / 83
p0 7413 ± 5.821
10000
9500
9000
8500
8000
7500
7000
6500
6000

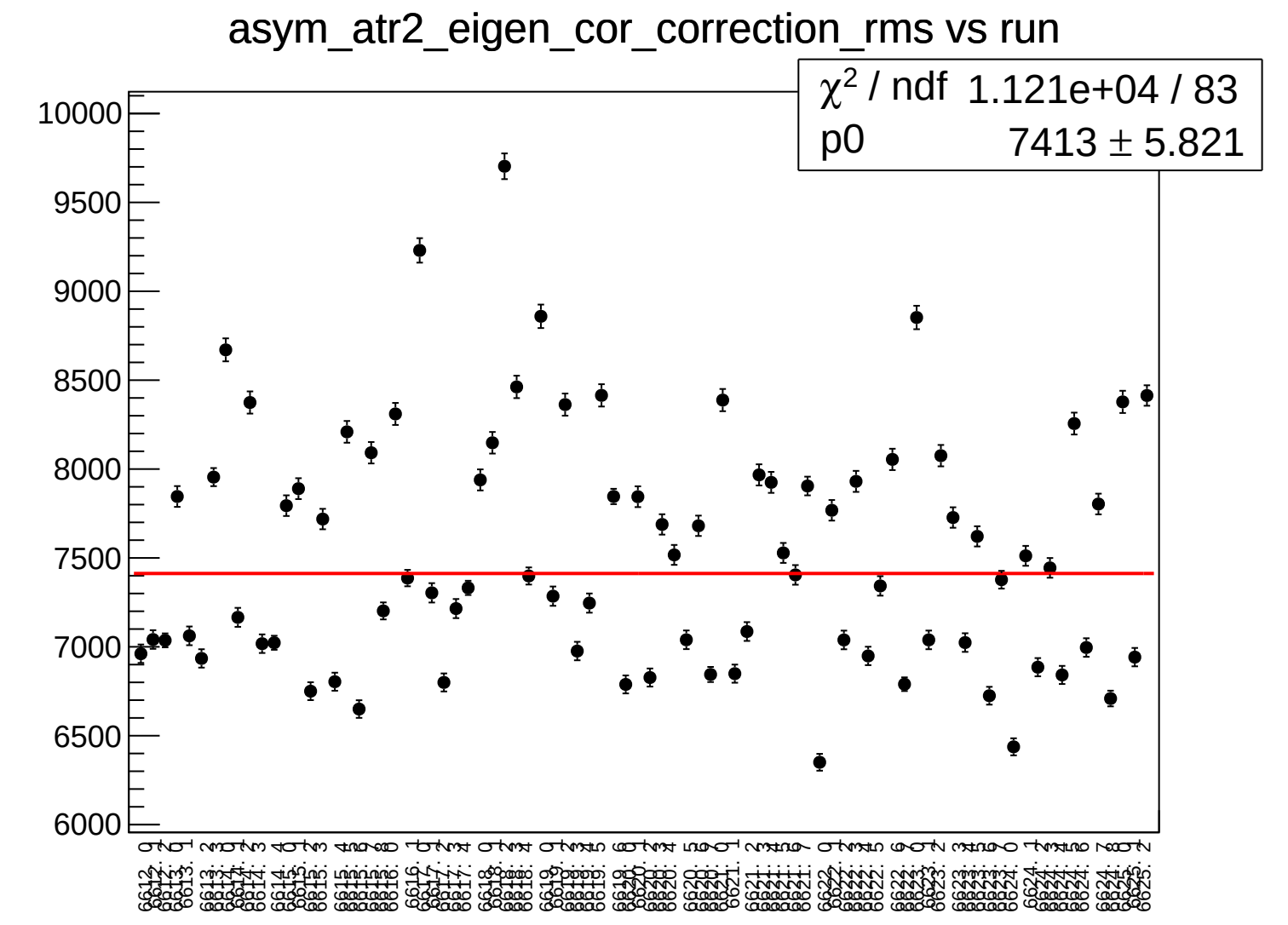

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 86.72 / 83
p0 3906 ± 3061
100
50
0
−50
−100
pull
Entries 84
Mean −155.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

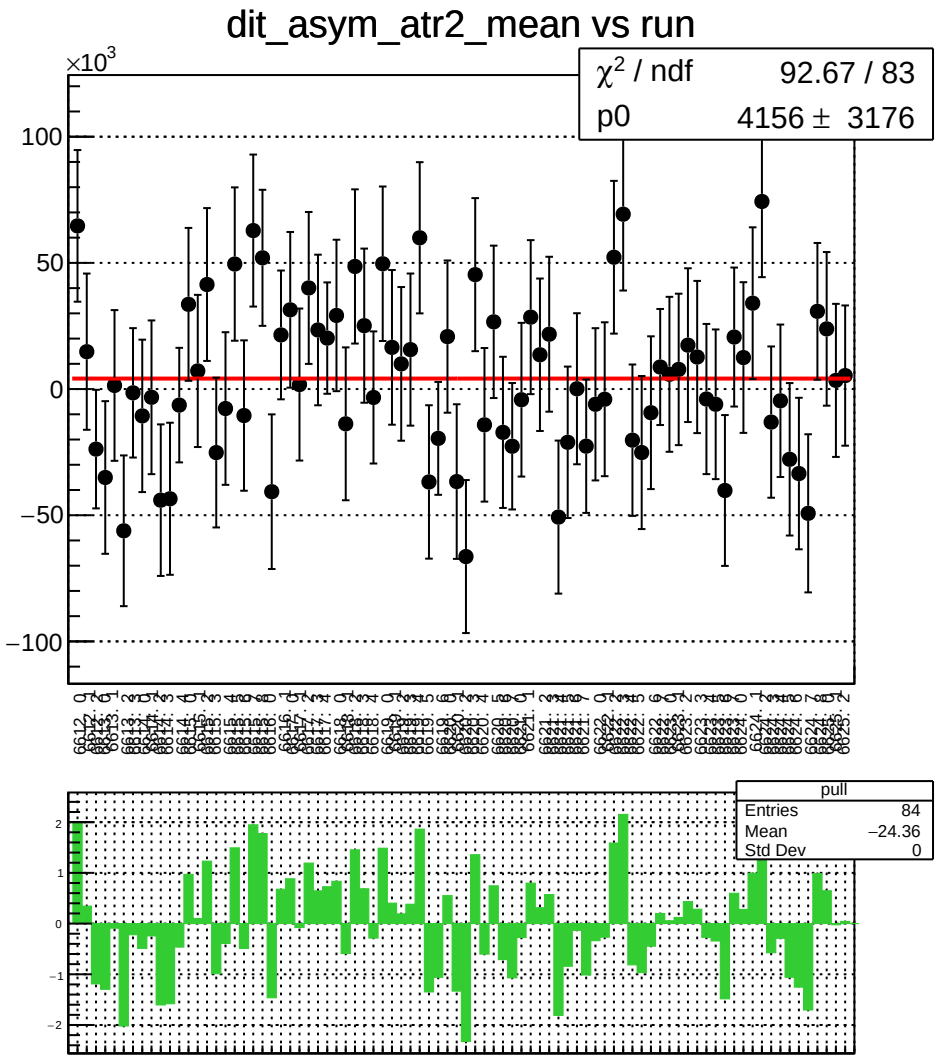

pull1D
Entries 84
Mean 0.001522
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

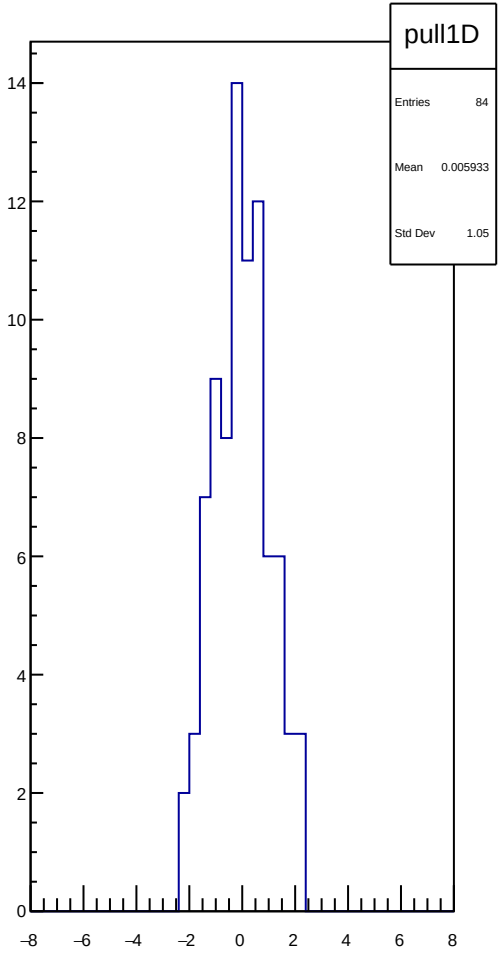

eigen_cor_asym_atr2_rms vs run
χ^2 / ndf 211.5 / 83
p0 2765 ± 2.164
2900
2850
2800
2750
2700

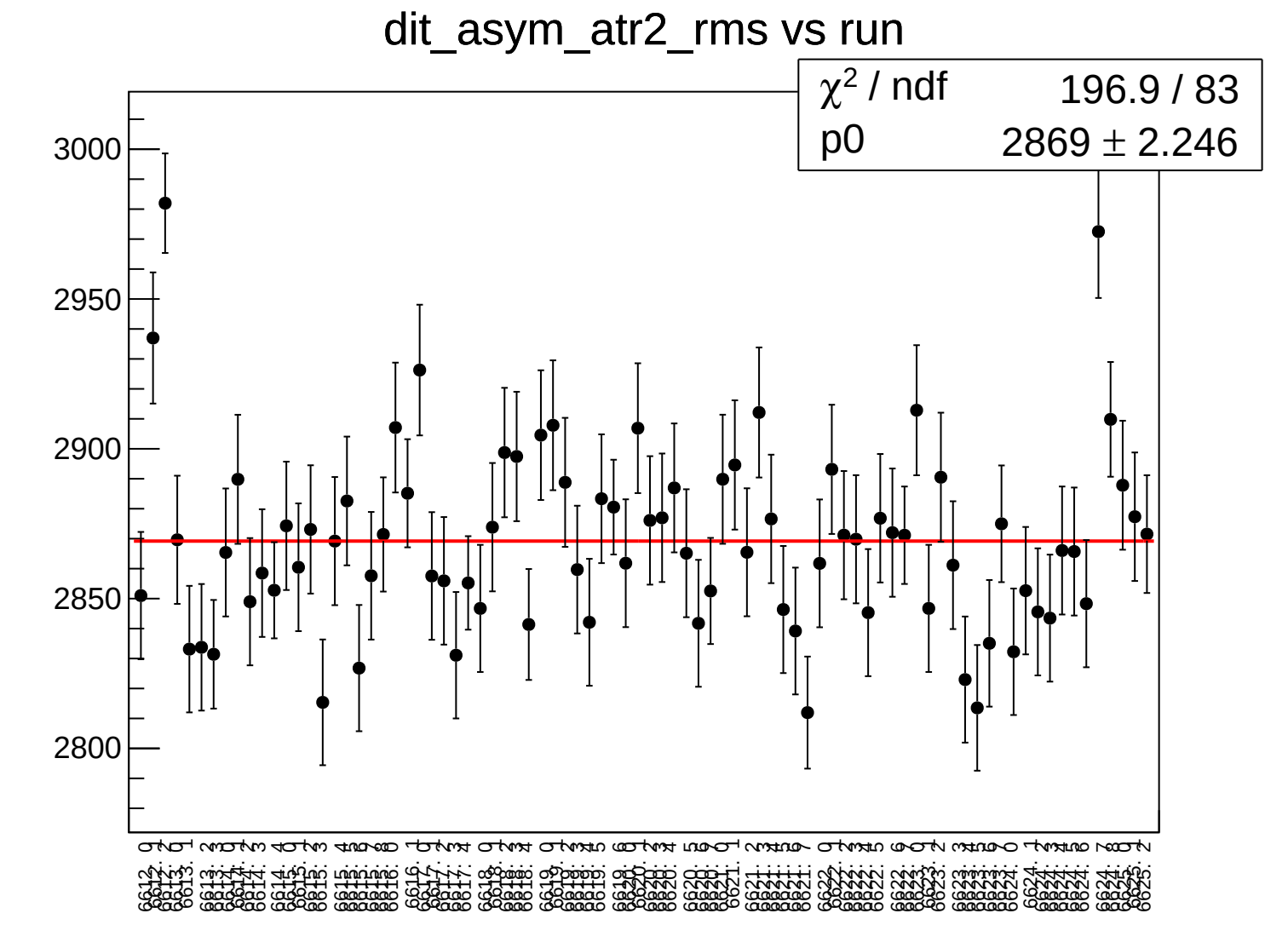

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.55 / 83
p0 1785 ± 8233
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean −44.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

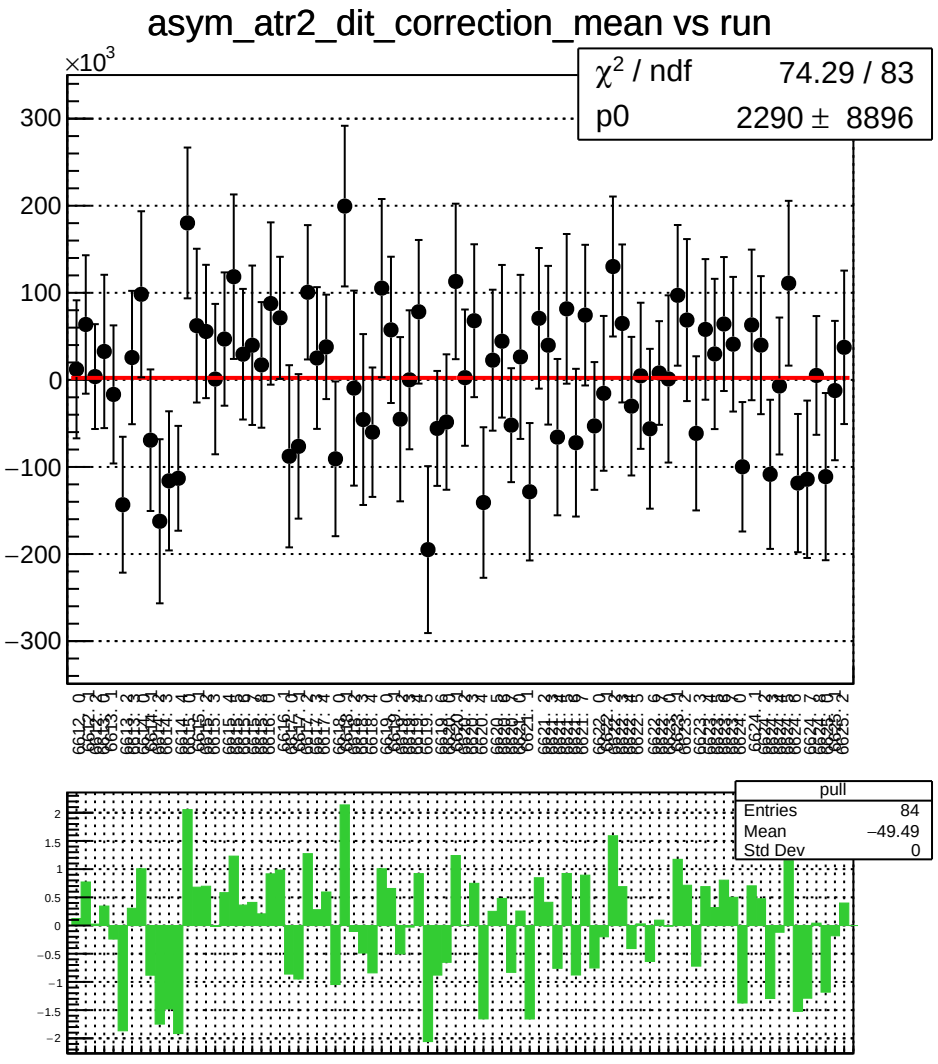

pull1D
Entries 84
Mean 0.01243
Std Dev 0.942
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

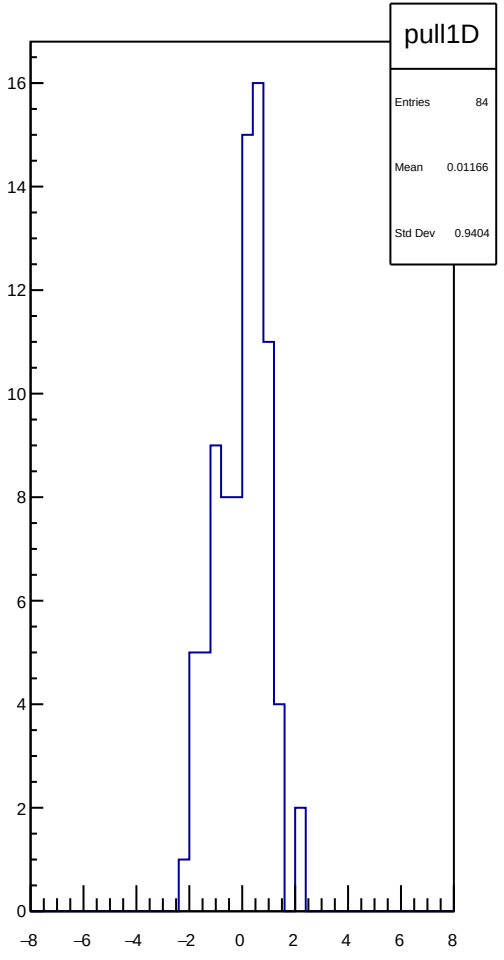

asym_atr2_eigen_cor_correction_rms vs run
χ^2 / ndf 1.121e+04 / 83
p0 7413 ± 5.821
10000
9500
9000
8500
8000
7500
7000
6500
6000

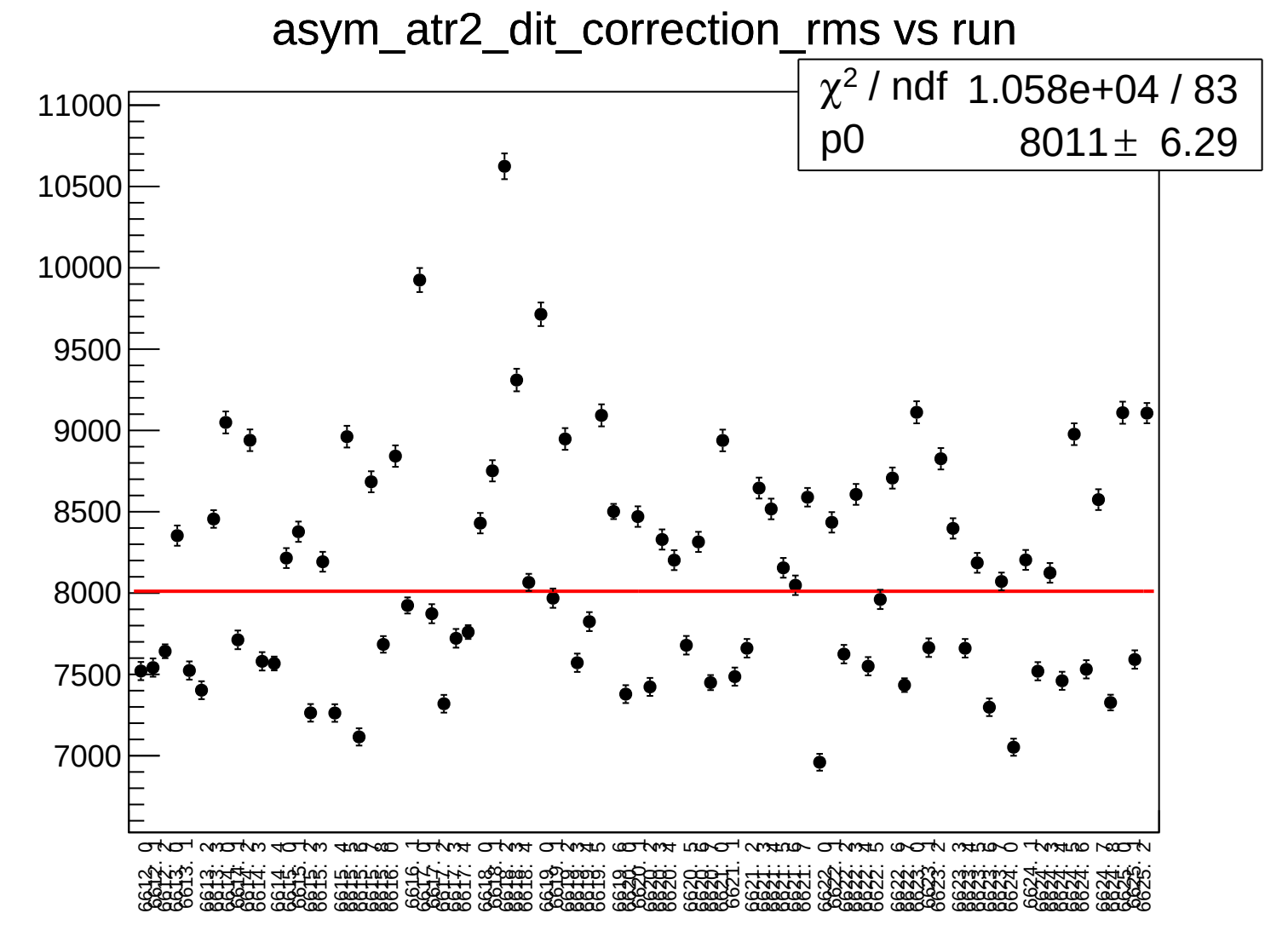

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 92.67 / 83
p0 4156 ± 3176
100
50
0
−50
−100
pull
Entries 84
Mean −24.36
Std Dev 0
2
1
0
−1
−2

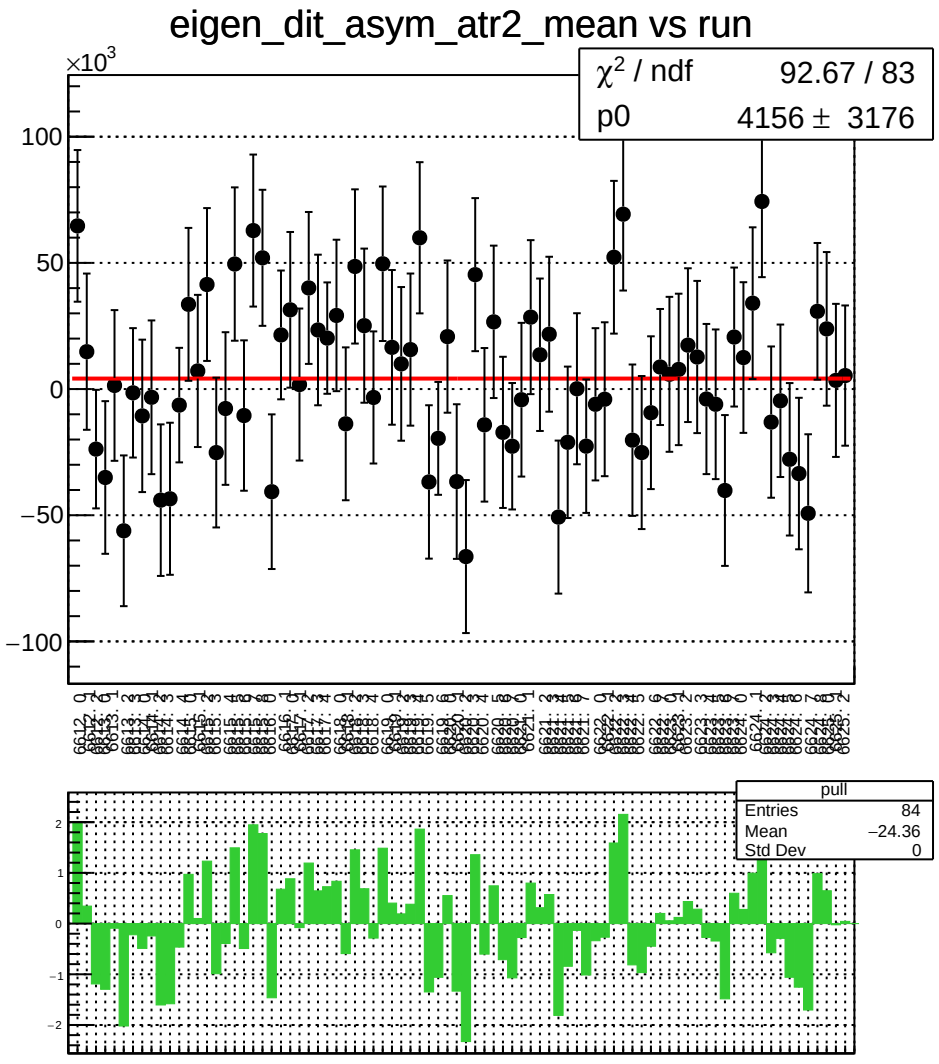

pull1D
Entries 84
Mean 0.005933
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

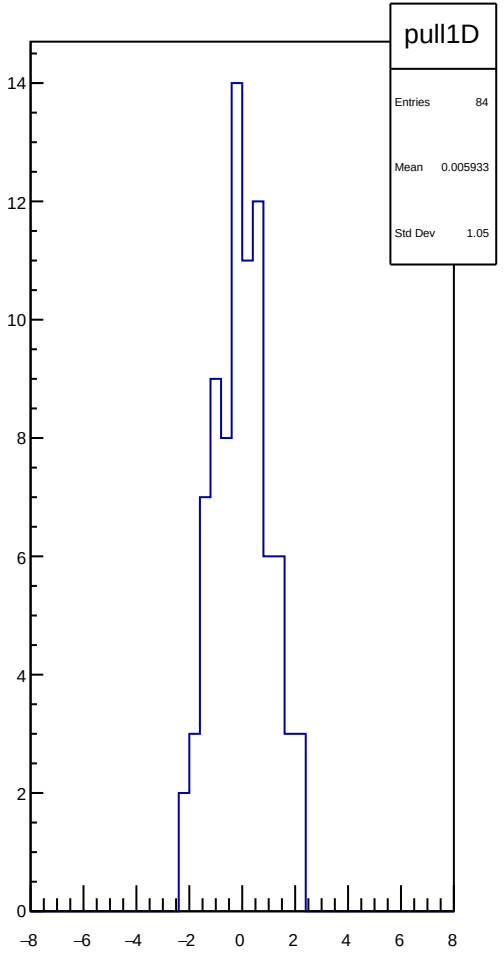

dit_asym_atr2_rms vs run
χ^2 / ndf 196.9 / 83
p0 2869 ± 2.246
3000
2950
2900
2850
2800

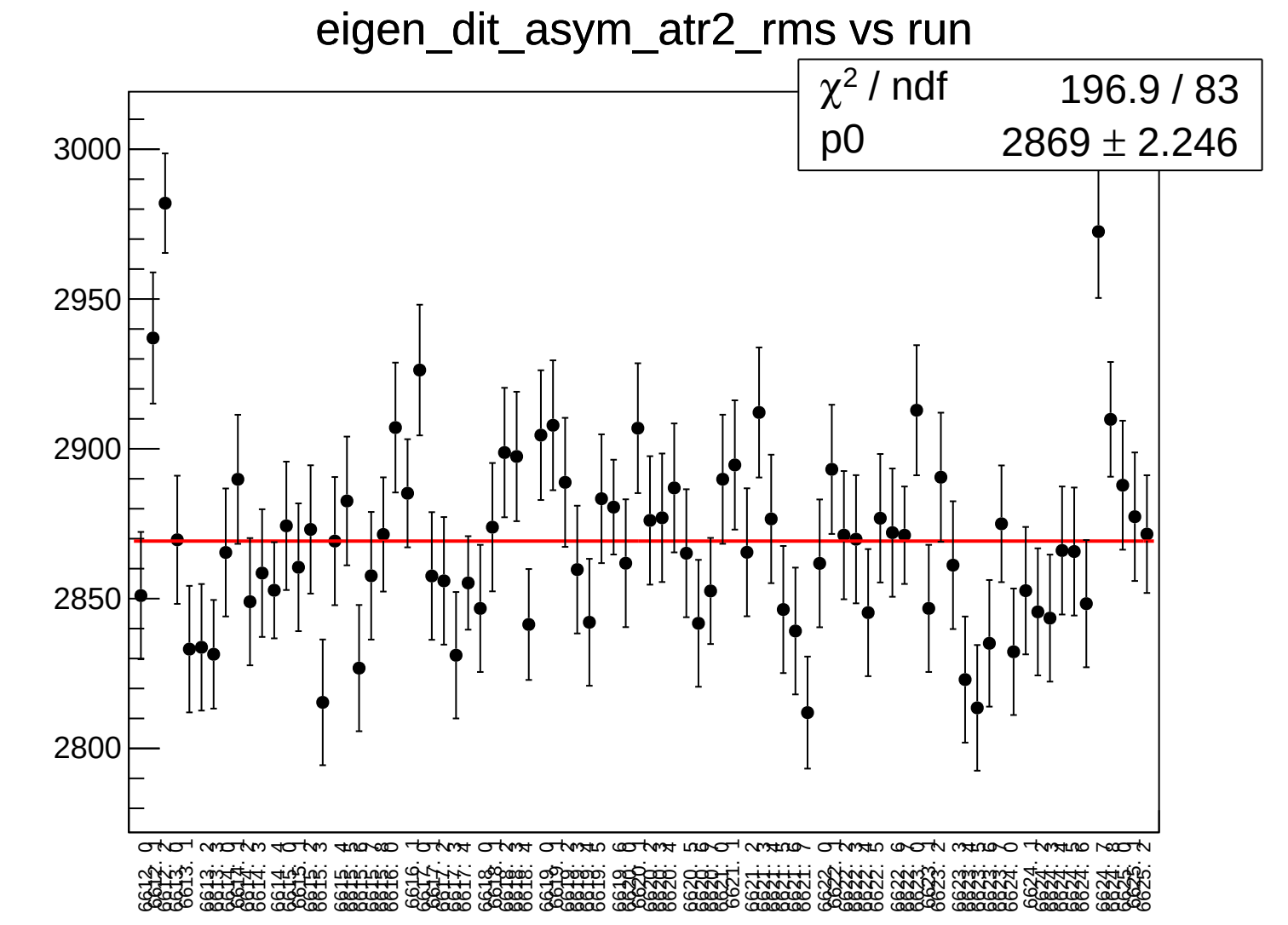

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 74.29 / 83
p0 2290 ± 8896
pull
Entries 84
Mean −49.49
Std Dev 0

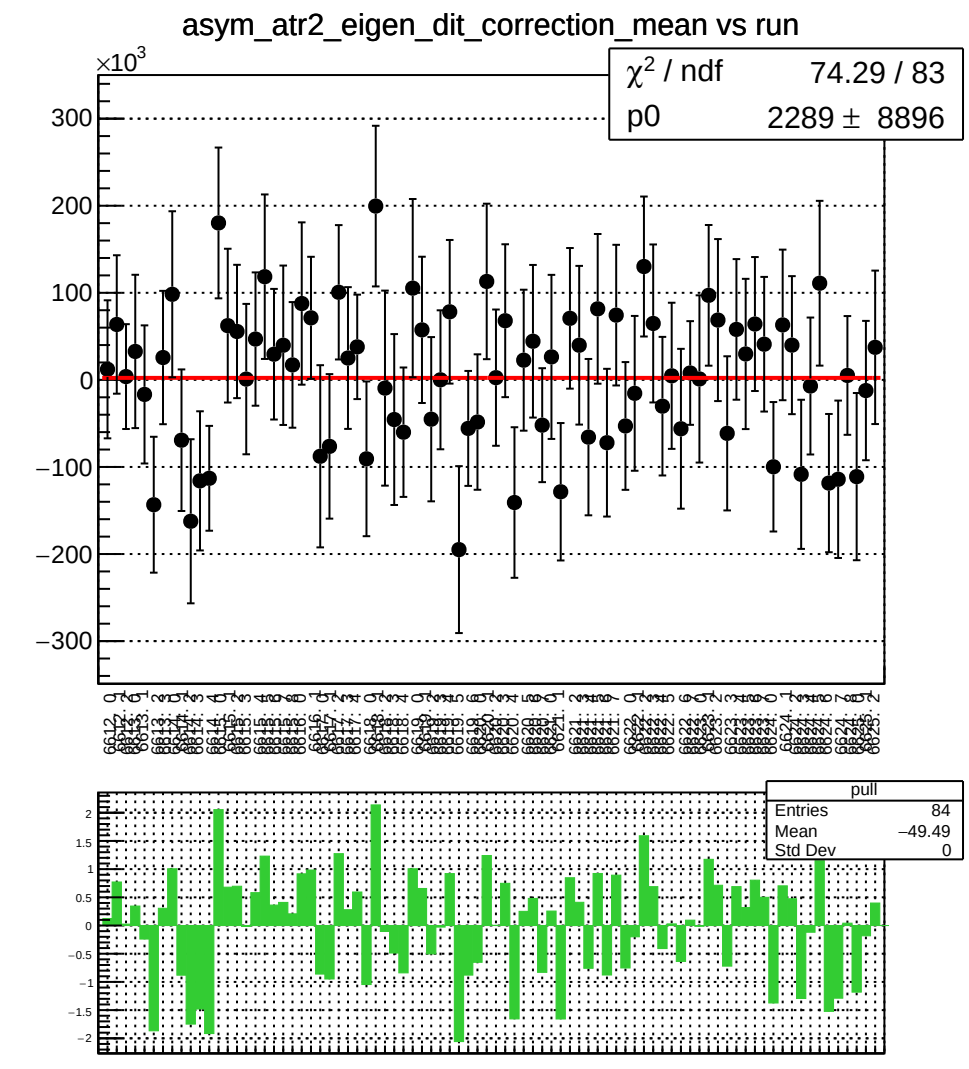

pull1D
Entries 84
Mean 0.01166
Std Dev 0.9404

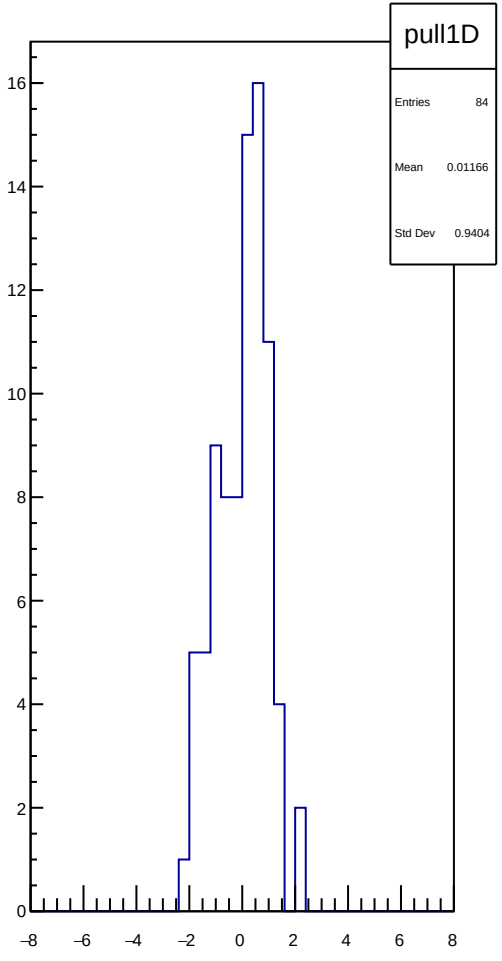

asym_atr2_dit_correction_rms vs run
χ² / ndf 1.058e+04 / 83
p0 8011 ± 6.29
11000
10500
10000
9500
9000
8500
8000
7500
7000

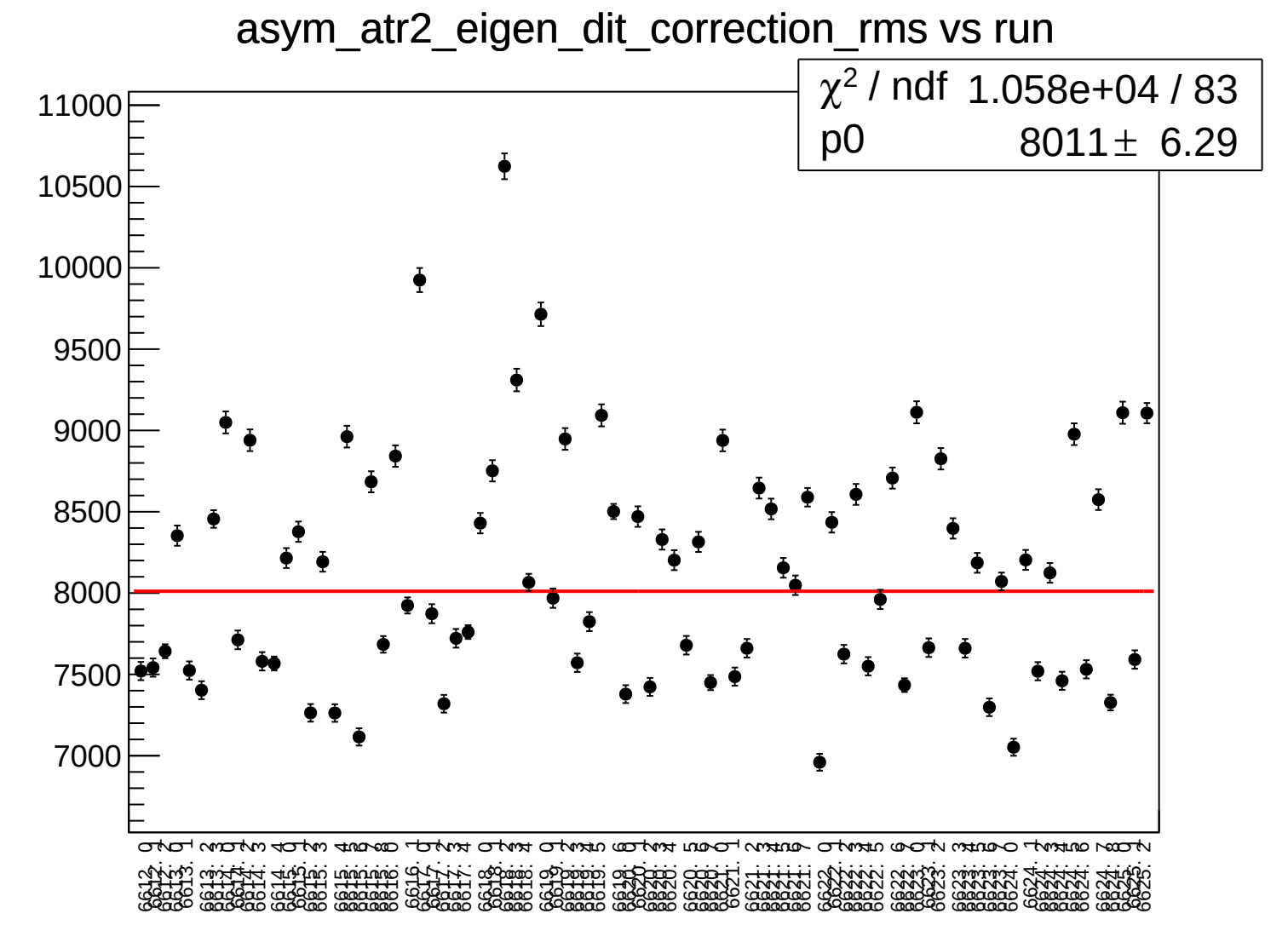

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 92.67 / 83
p0 4156 ± 3176
100
50
0
−50
−100
pull
Entries 84
Mean −24.36
Std Dev 0
2
1
0
−1
−2

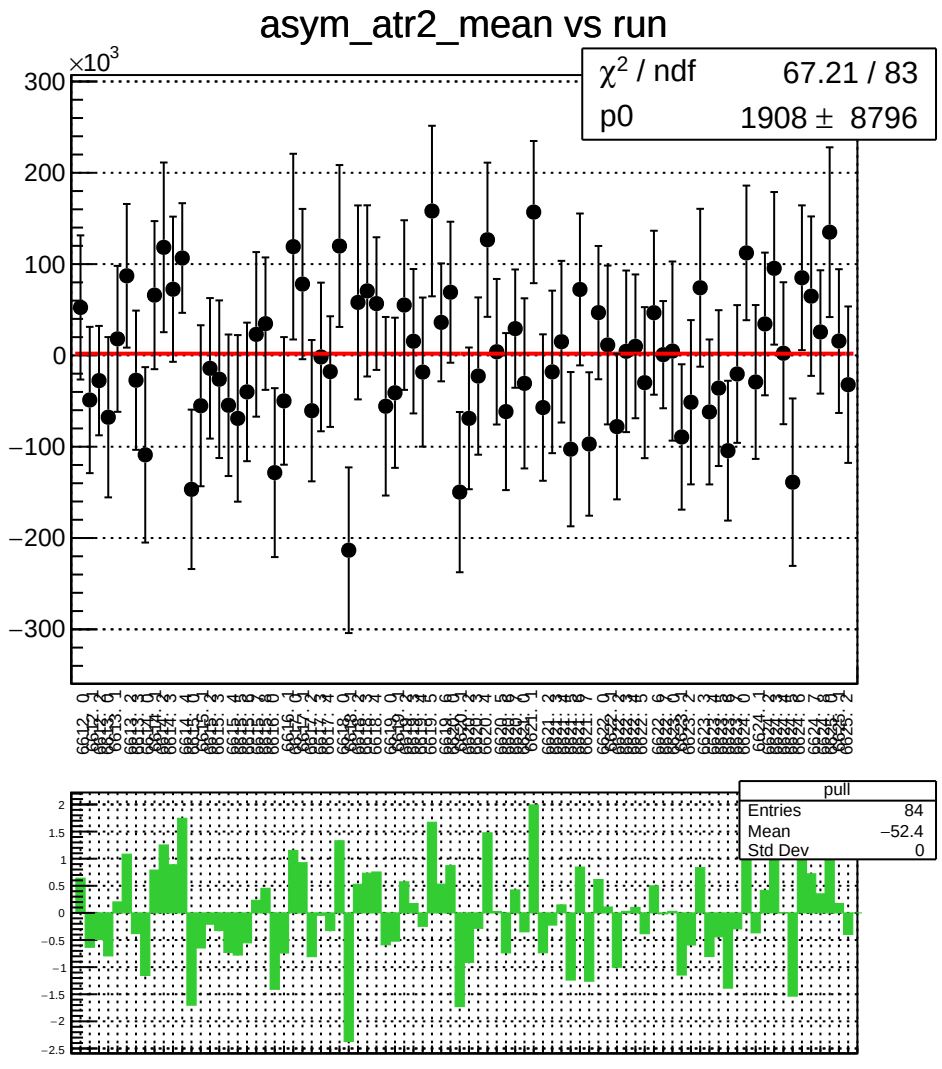

pull1D
Entries 84
Mean 0.005933
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

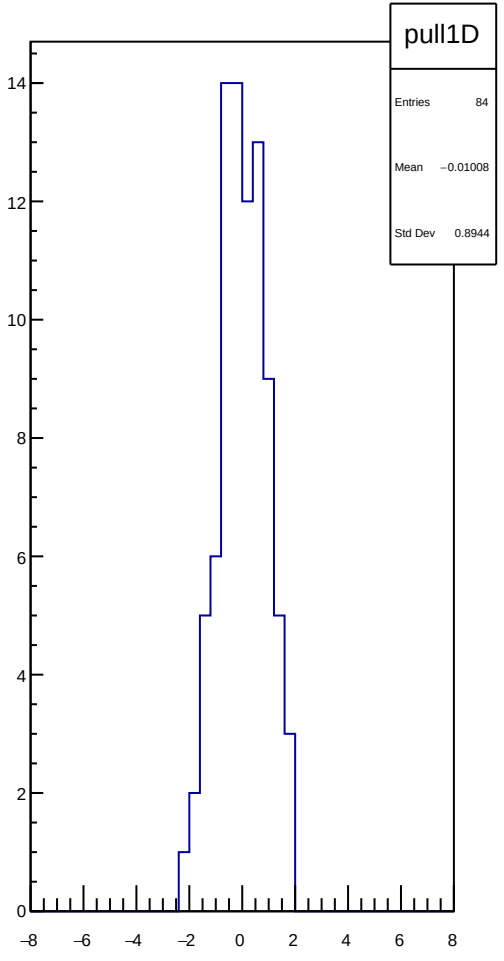

eigen_dit_asym_atr2_rms vs run
χ² / ndf 196.9 / 83
p0 2869 ± 2.246
3000
2950
2900
2850
2800

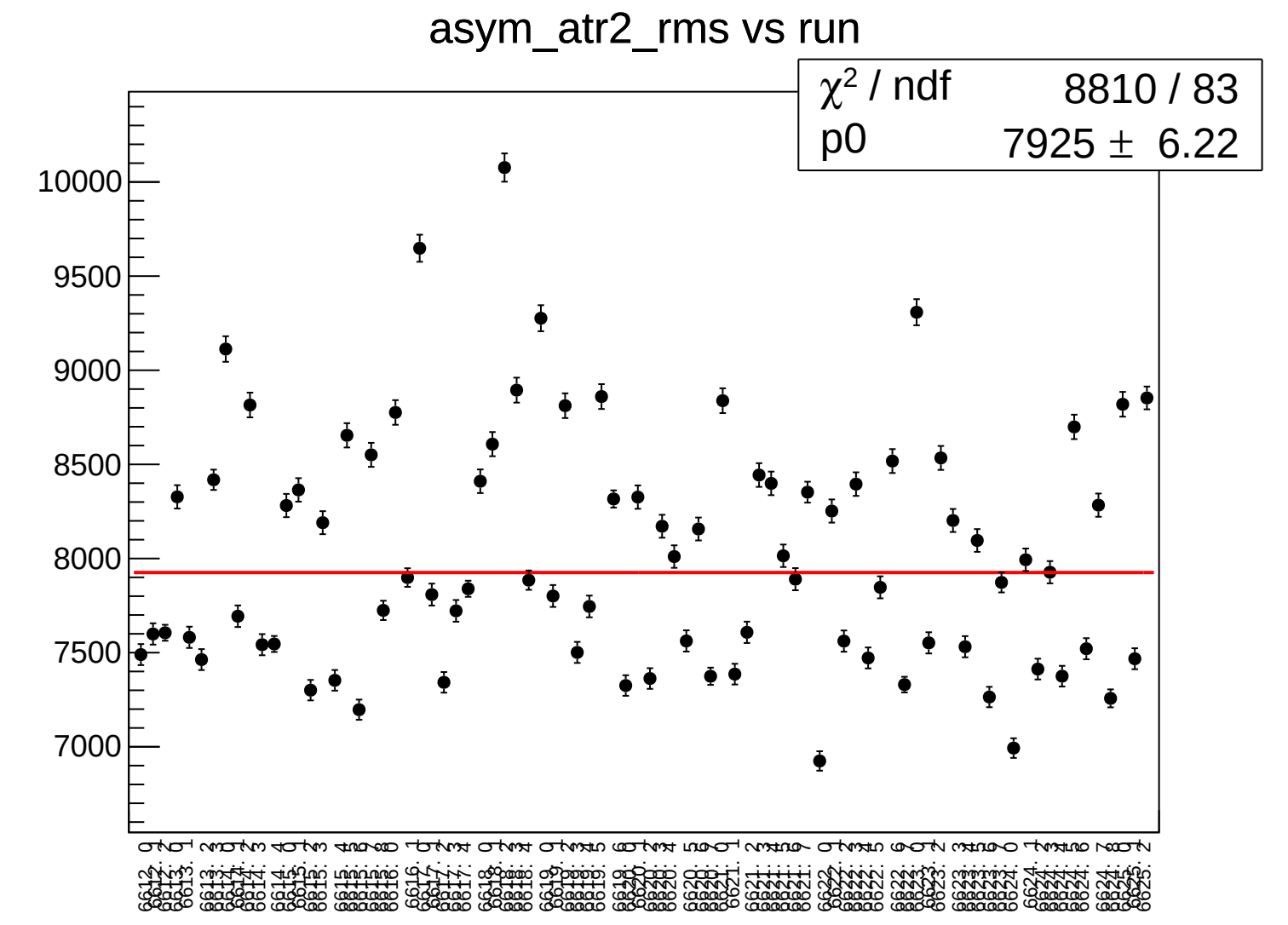

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 74.29 / 83
p0 2289 ± 8896
pull
Entries 84
Mean −49.49
Std Dev 0

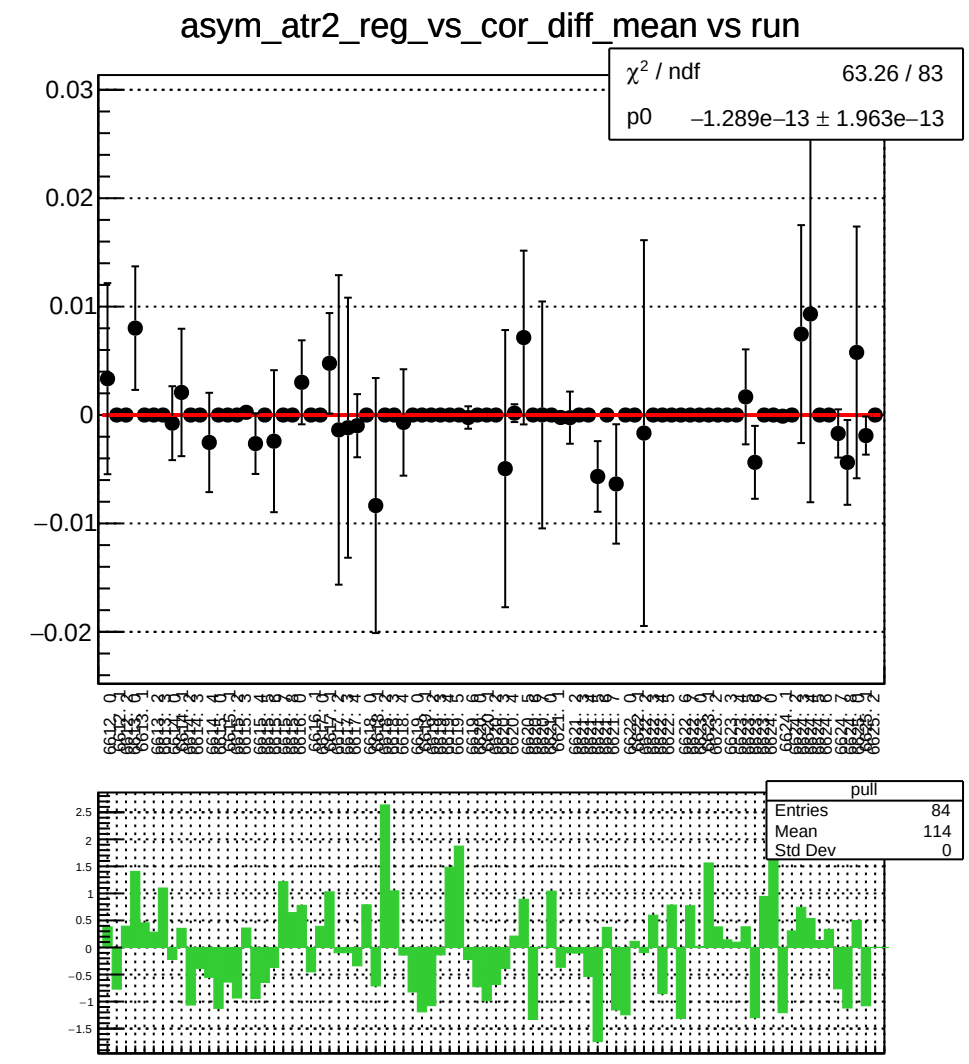

pull1D
Entries 84
Mean 0.01166
Std Dev 0.9404

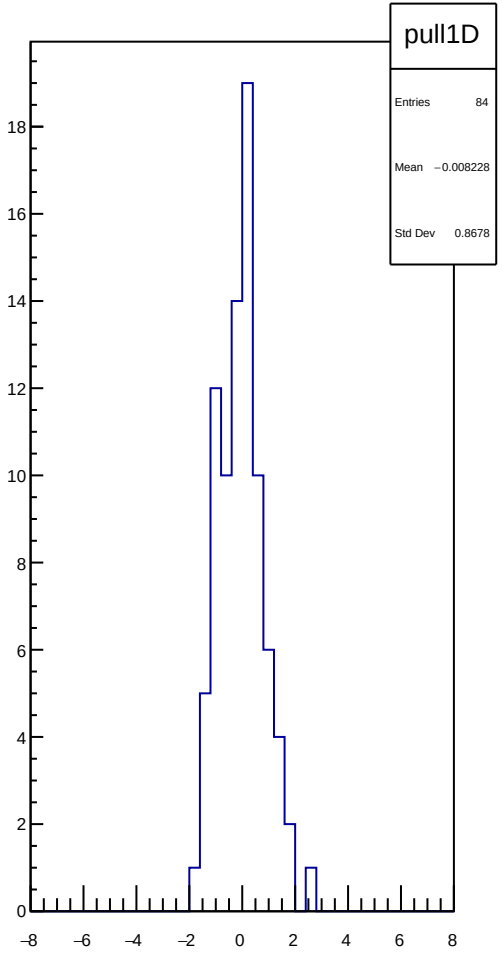

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 1.058e+04 / 83
p0 8011 ± 6.29
11000
10500
10000
9500
9000
8500
8000
7500
7000

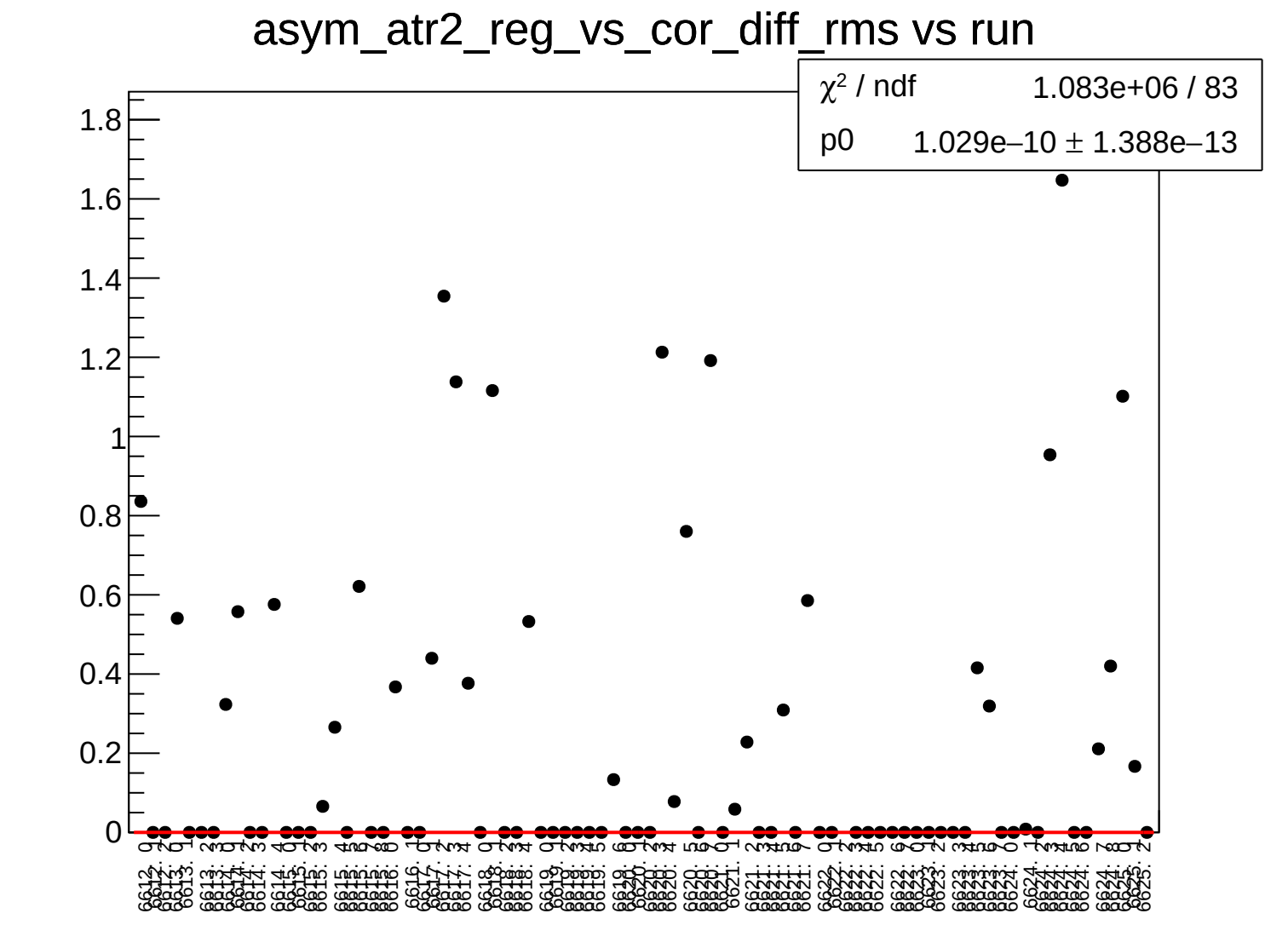

asym_atr2_mean vs run
×10^3
χ² / ndf 67.21 / 83
p0 1908 ± 8796
pull
Entries 84
Mean −52.4
Std Dev 0

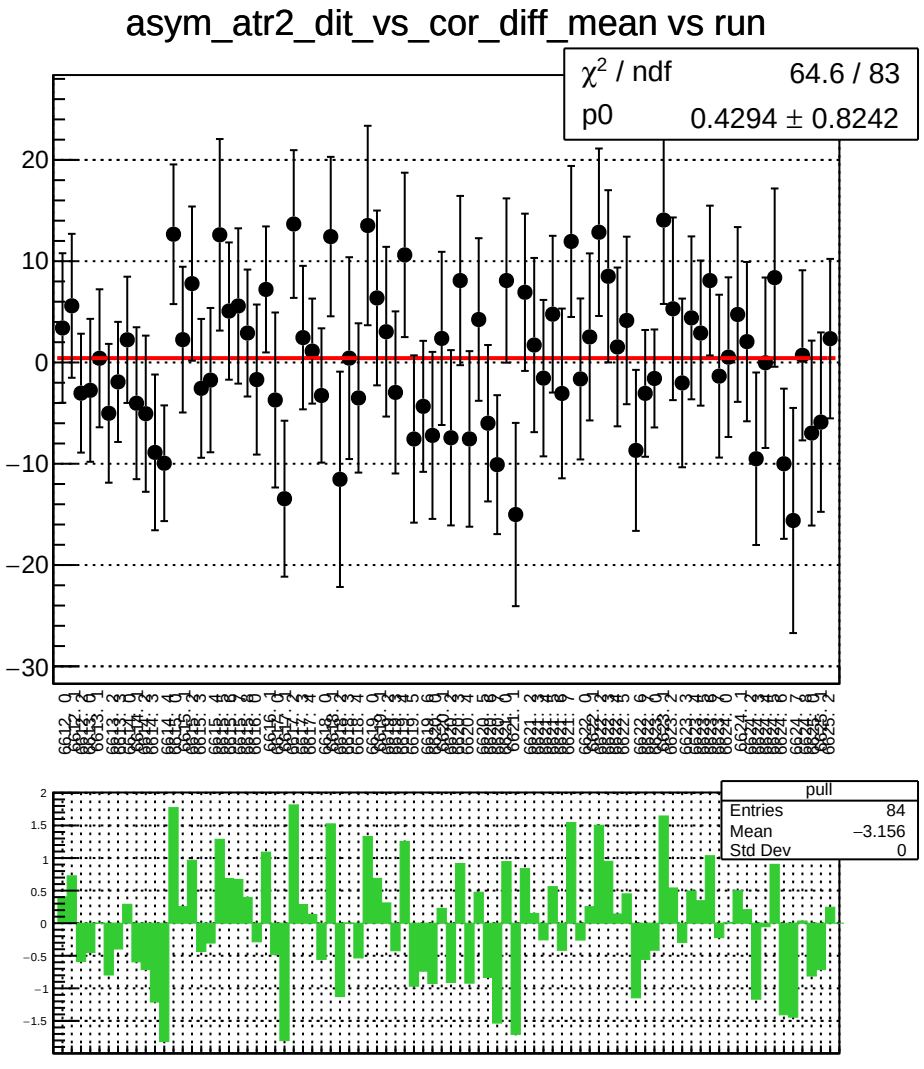

pull1D
Entries 84
Mean −0.01008
Std Dev 0.8944

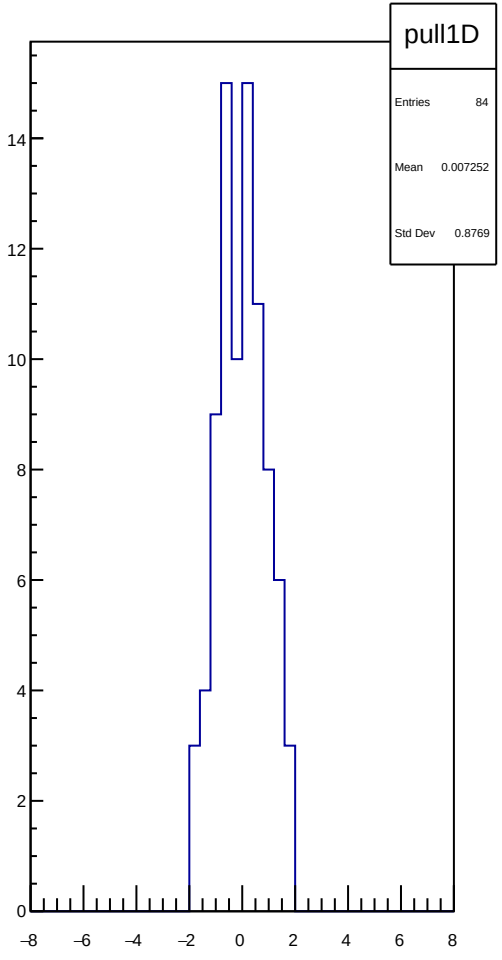

asym_atr2_rms vs run
χ² / ndf 8810 / 83
p0 7925 ± 6.22
10000
9500
9000
8500
8000
7500
7000

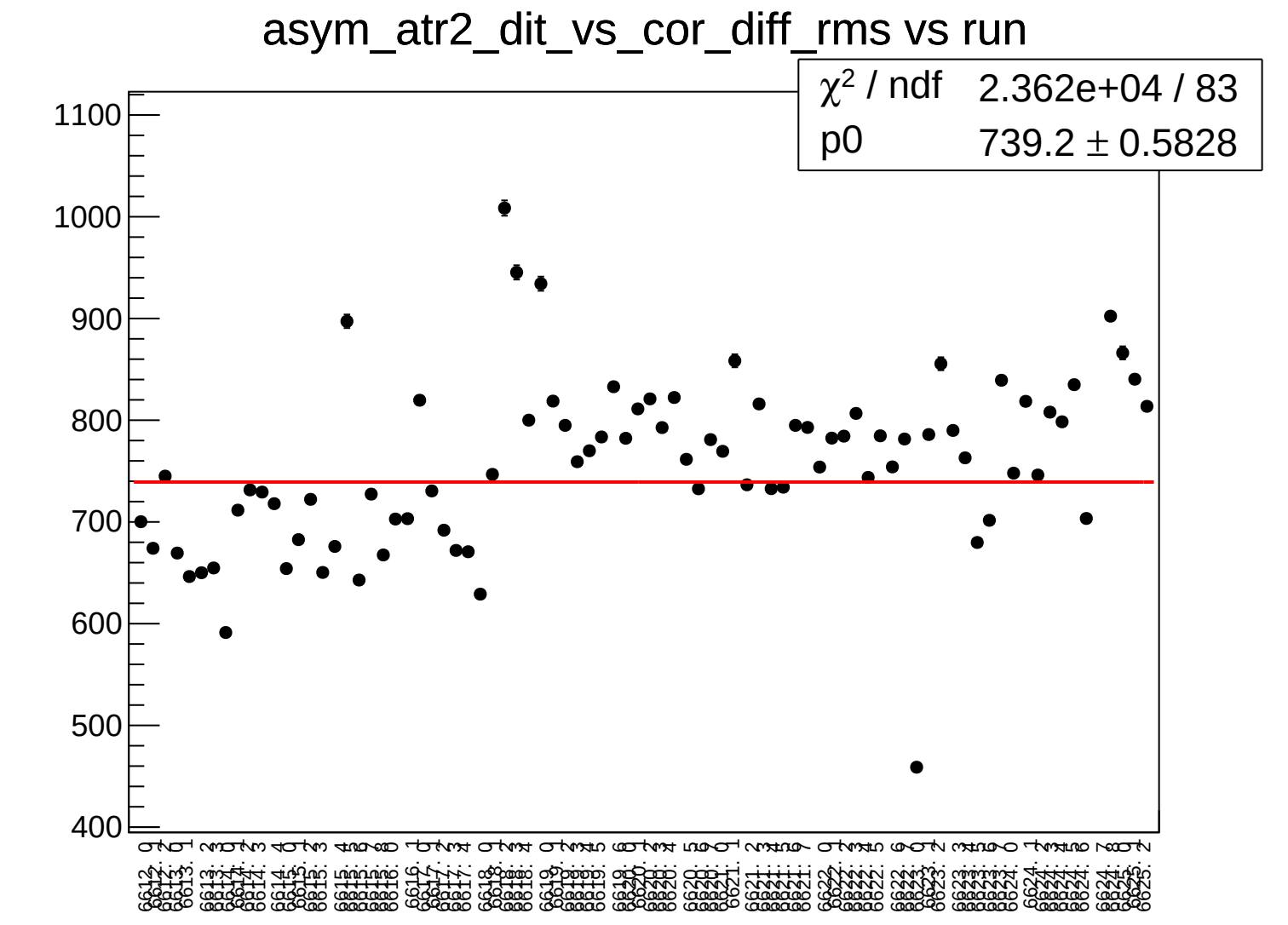

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 63.26 / 83
p0 −1.289e−13 ± 1.963e−13
pull
Entries 84
Mean 114
Std Dev 0

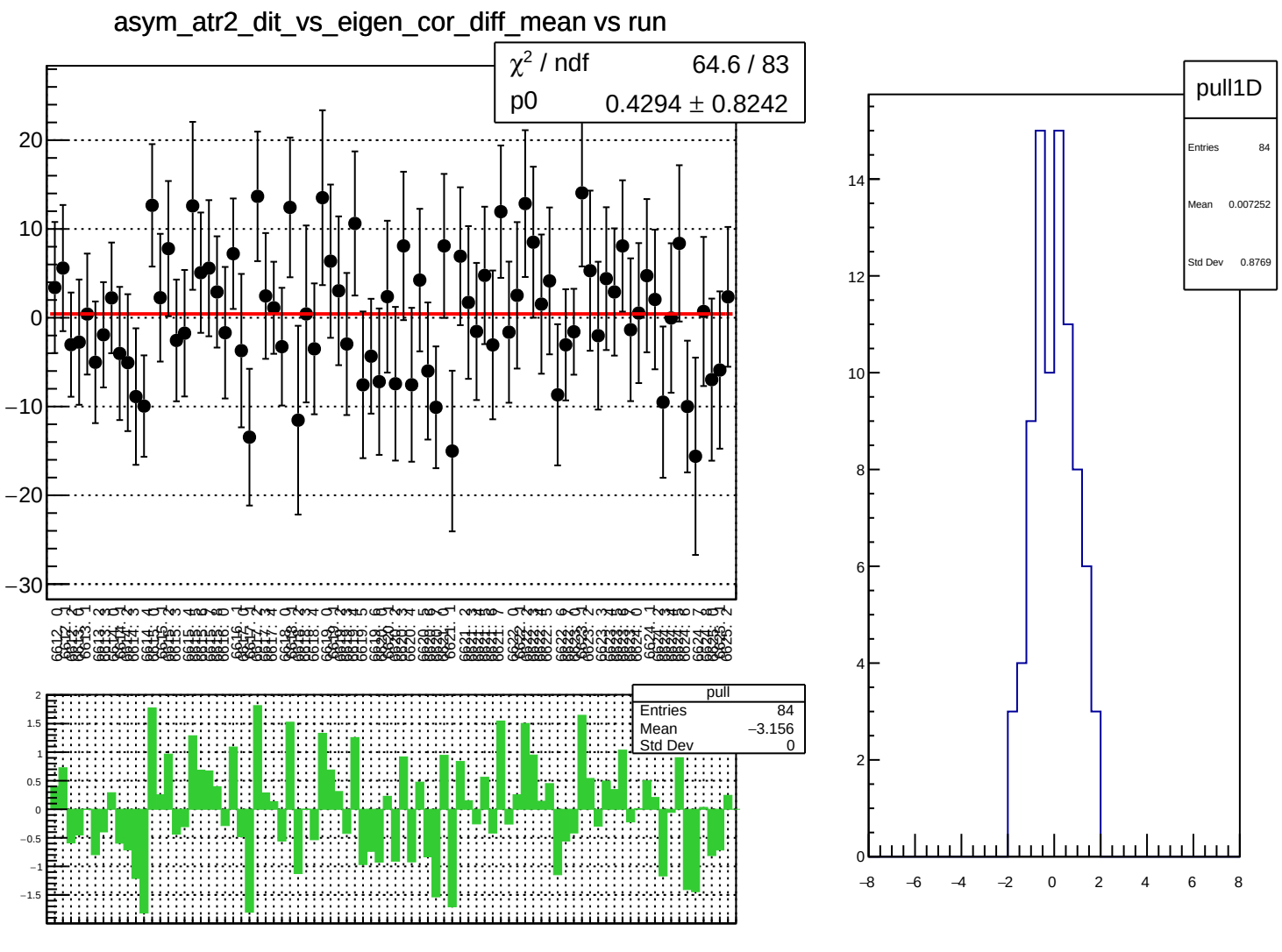

pull1D
Entries 84
Mean −0.008228
Std Dev 0.8678

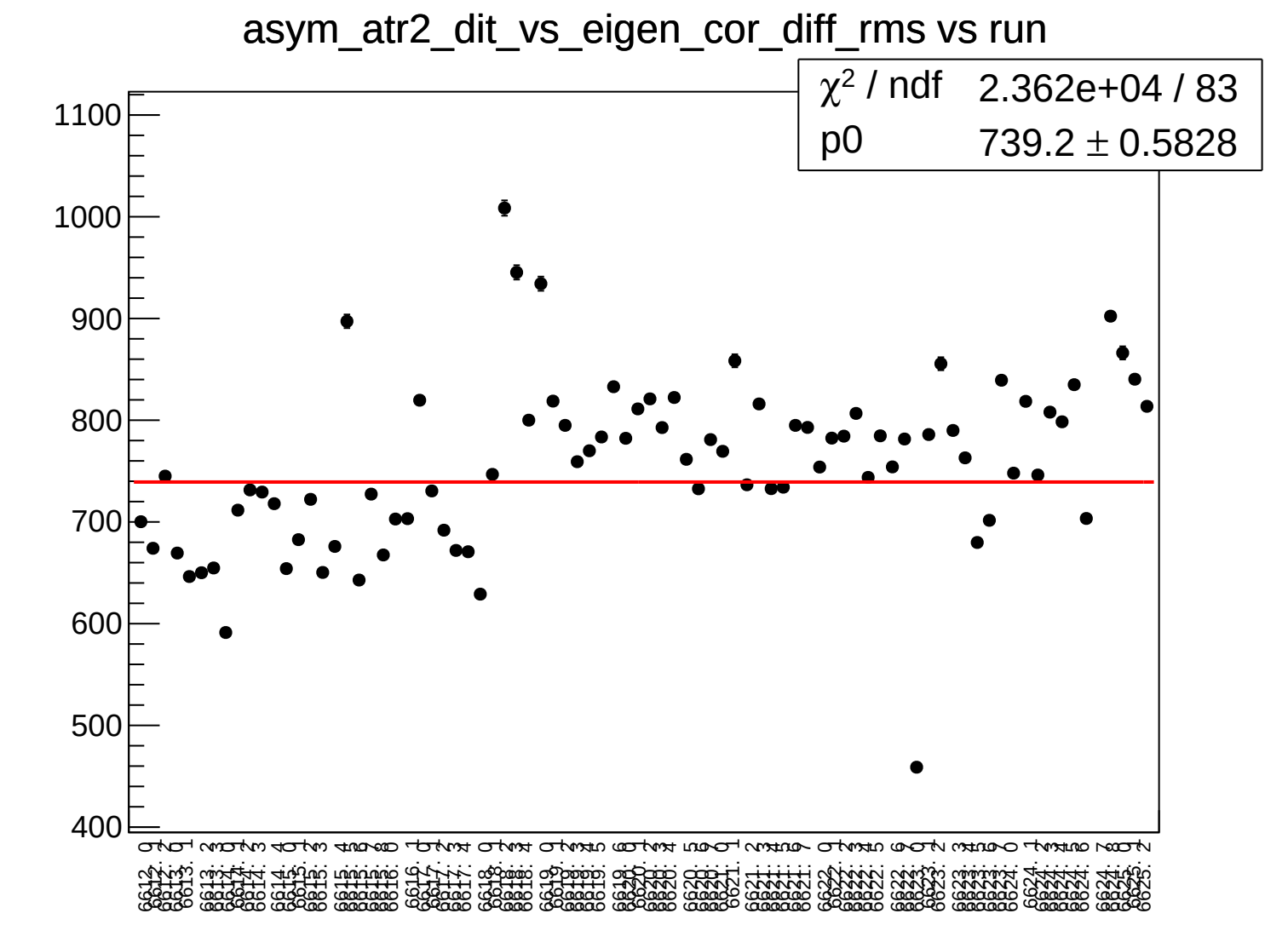

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.083e+06 / 83
p0 1.029e−10 ± 1.388e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

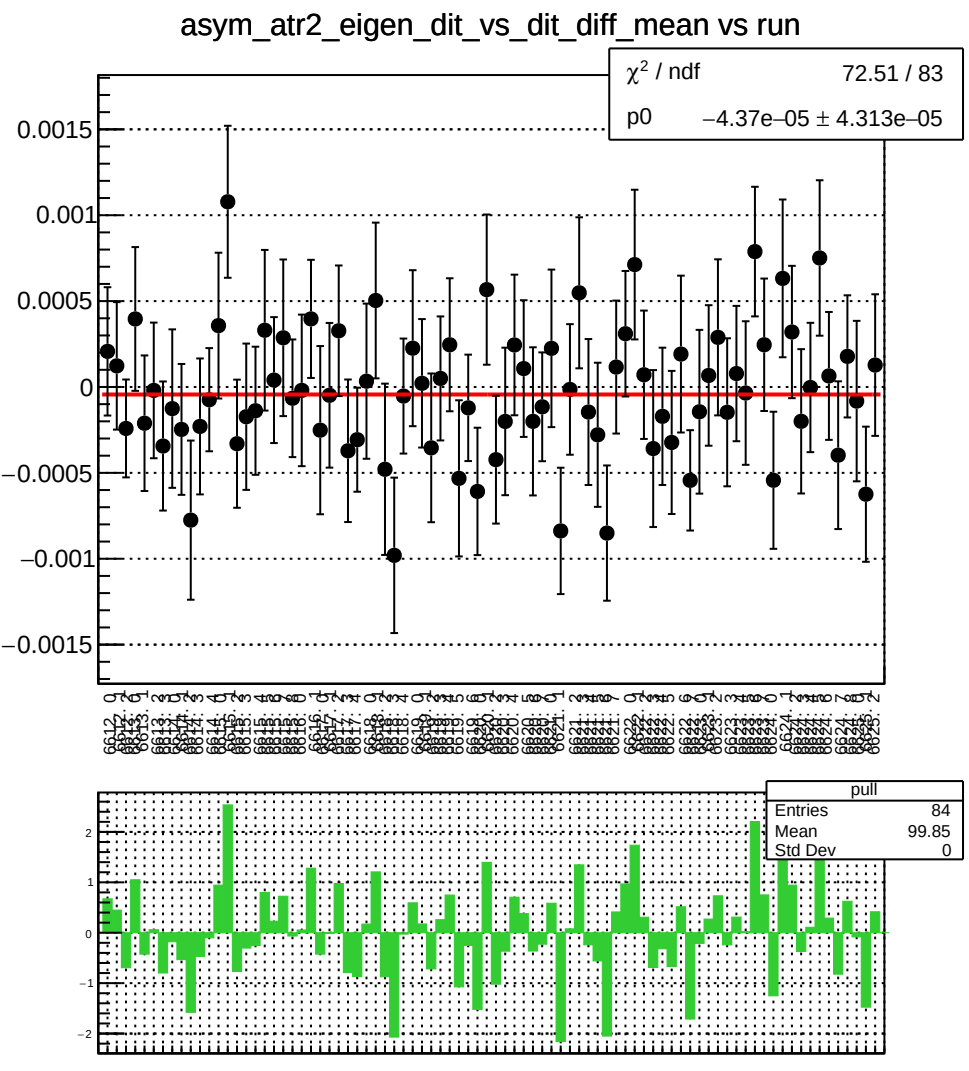

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 64.6 / 83
p0 0.4294 ± 0.8242
pull
Entries 84
Mean −3.156
Std Dev 0

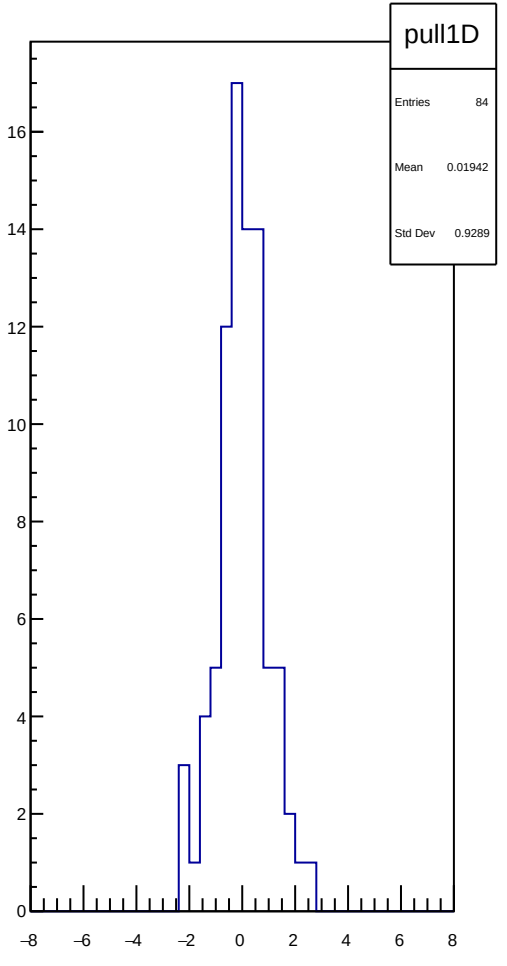

pull1D
Entries 84
Mean 0.007252
Std Dev 0.8769

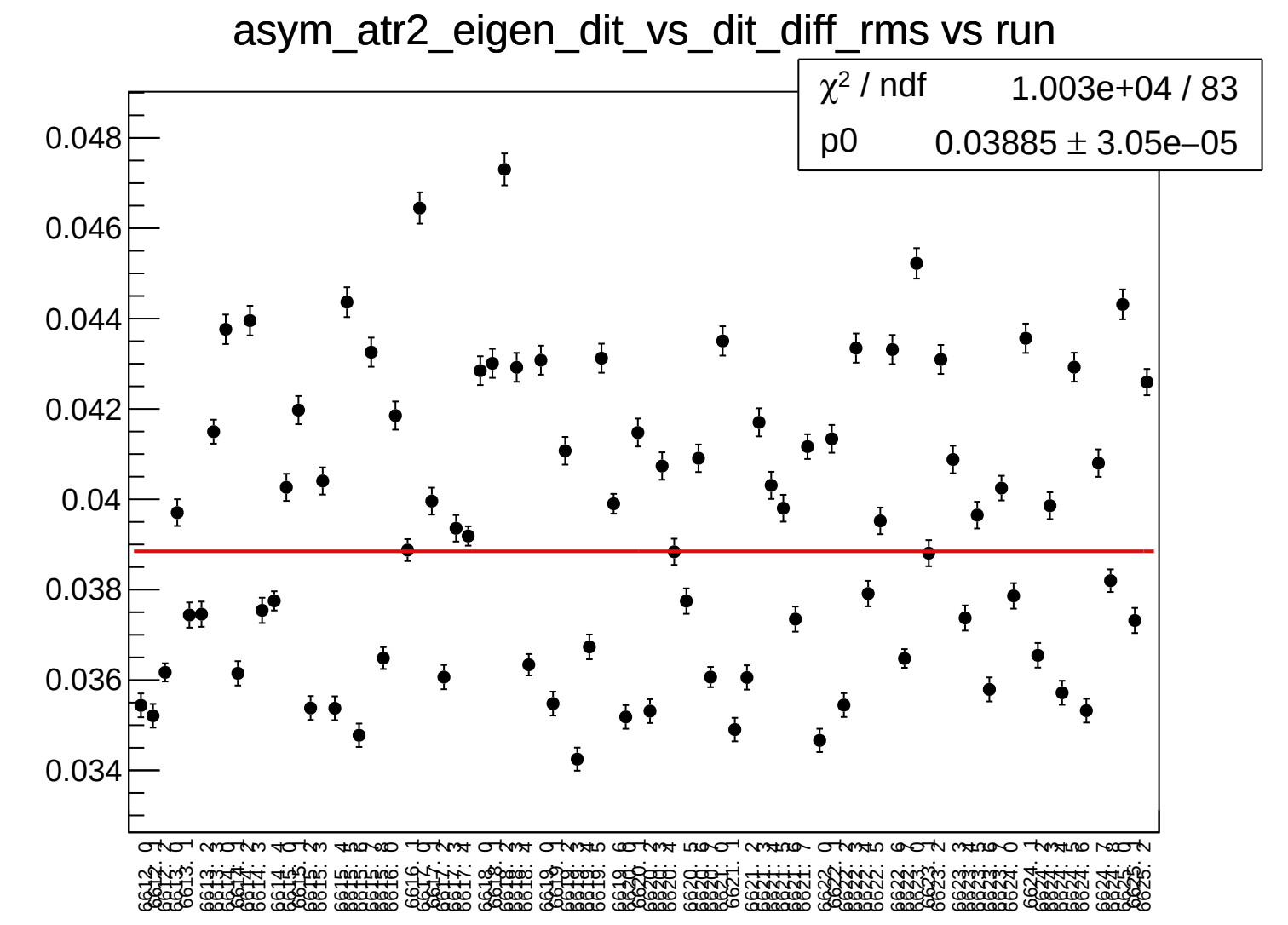

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.362e+04 / 83
p0 739.2 ± 0.5828
1100
1000
900
800
700
600
500
400

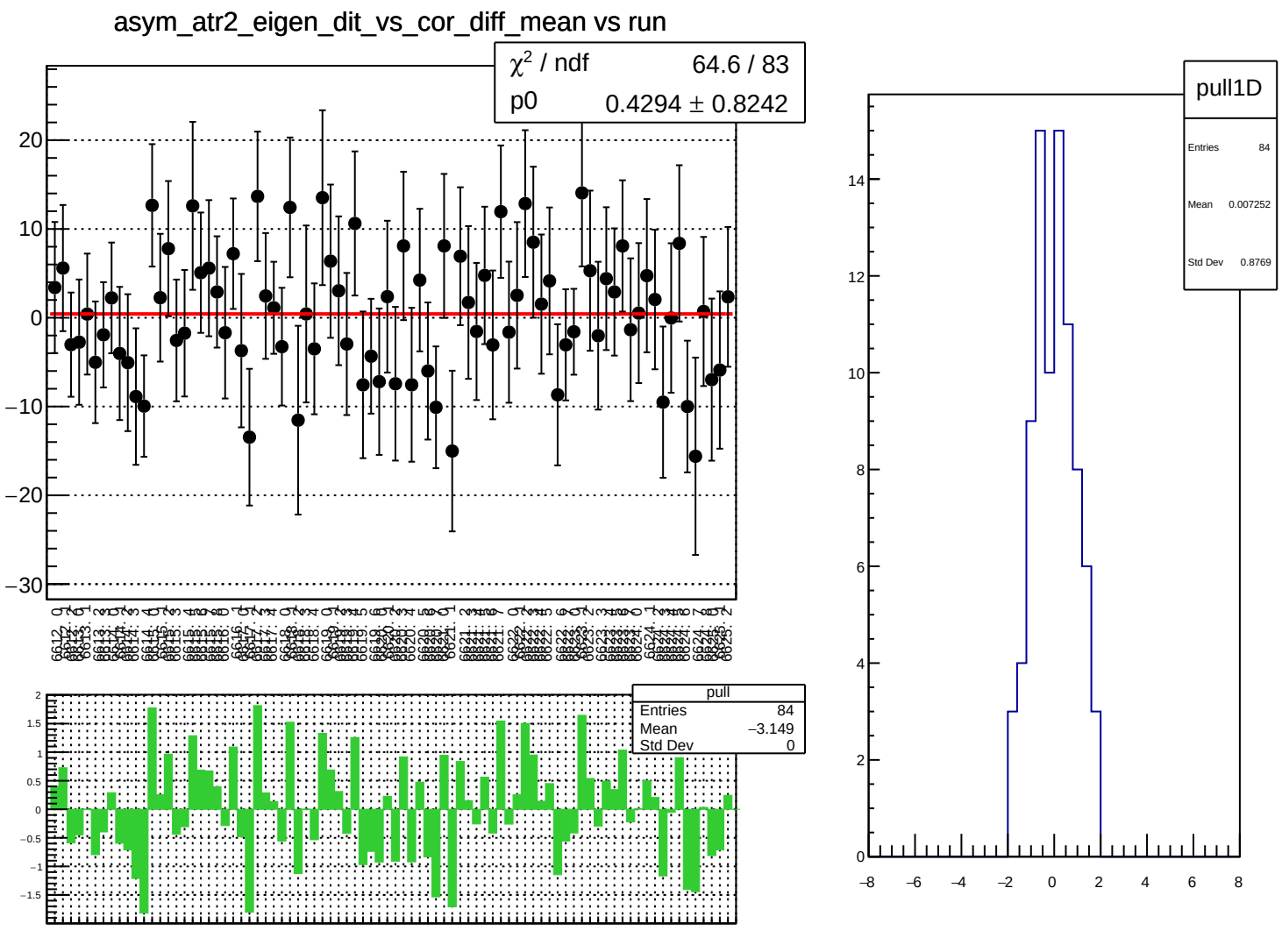

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.6 / 83
p0 0.4294 ± 0.8242
pull
Entries 84
Mean −3.156
Std Dev 0
pull1D
Entries 84
Mean 0.007252
Std Dev 0.8769

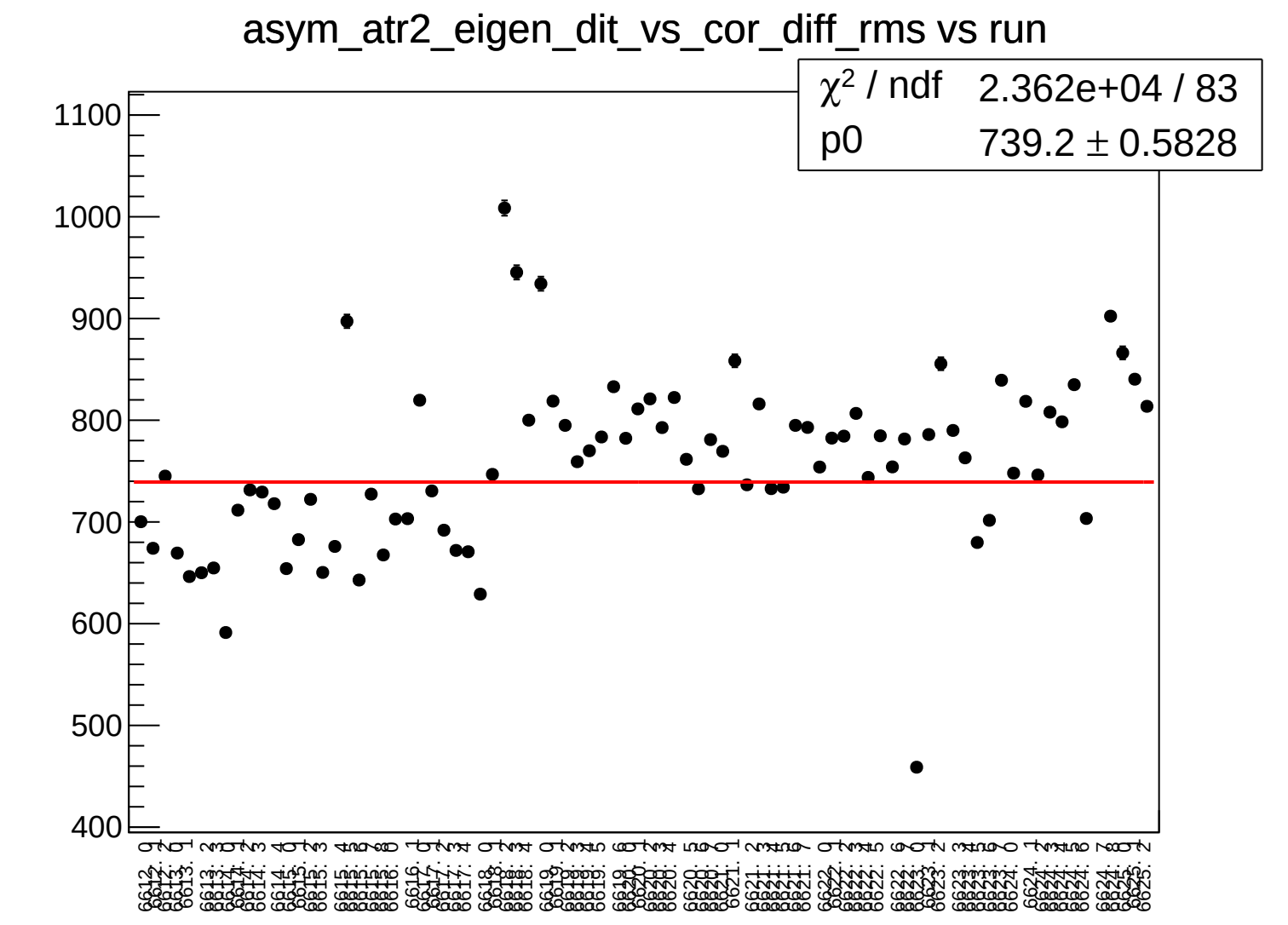

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.362e+04 / 83
p0 739.2 ± 0.5828
1100
1000
900
800
700
600
500
400

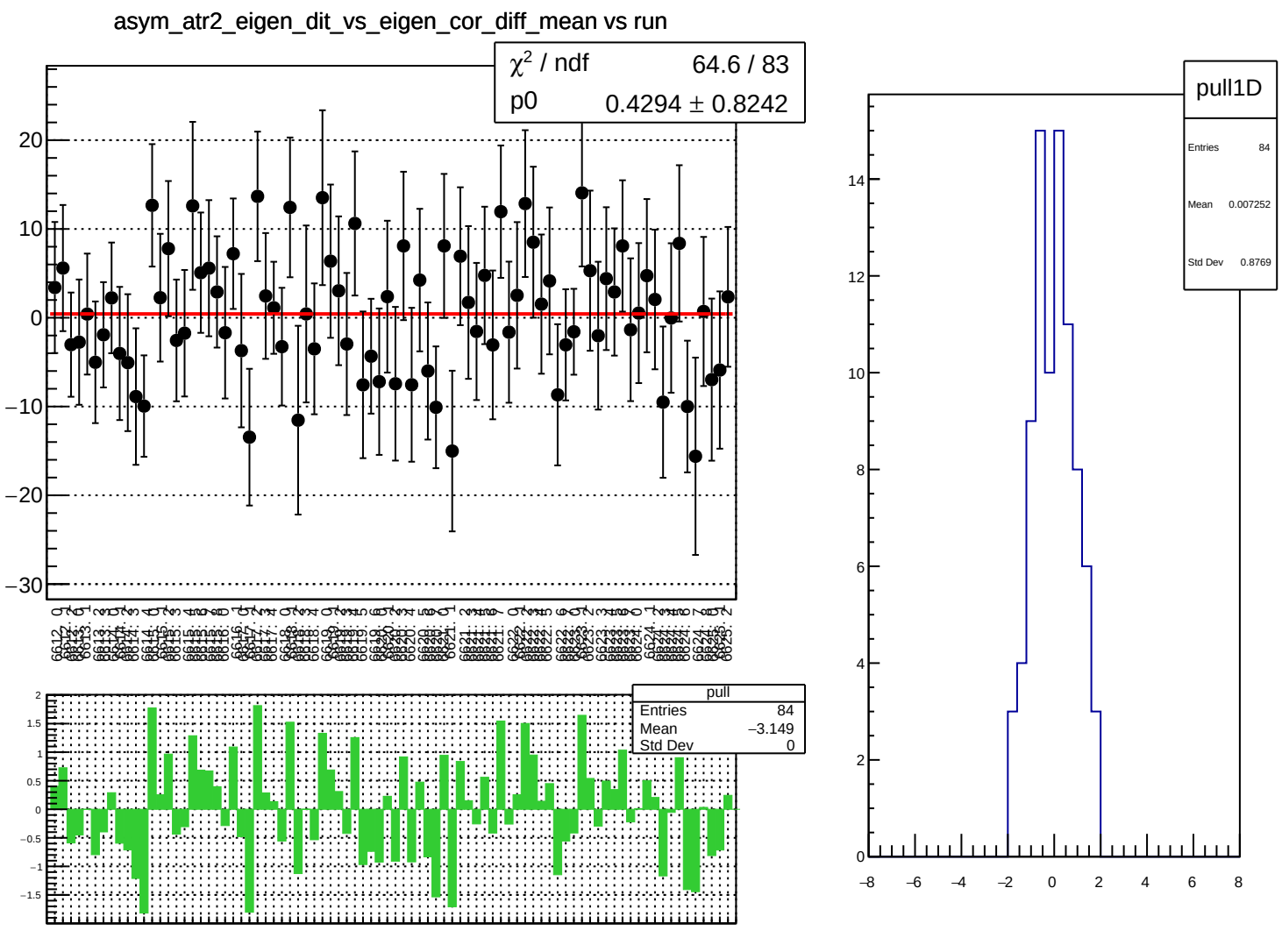

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 72.51 / 83
p0 −4.37e−05 ± 4.313e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 84
Mean 99.85
Std Dev 0

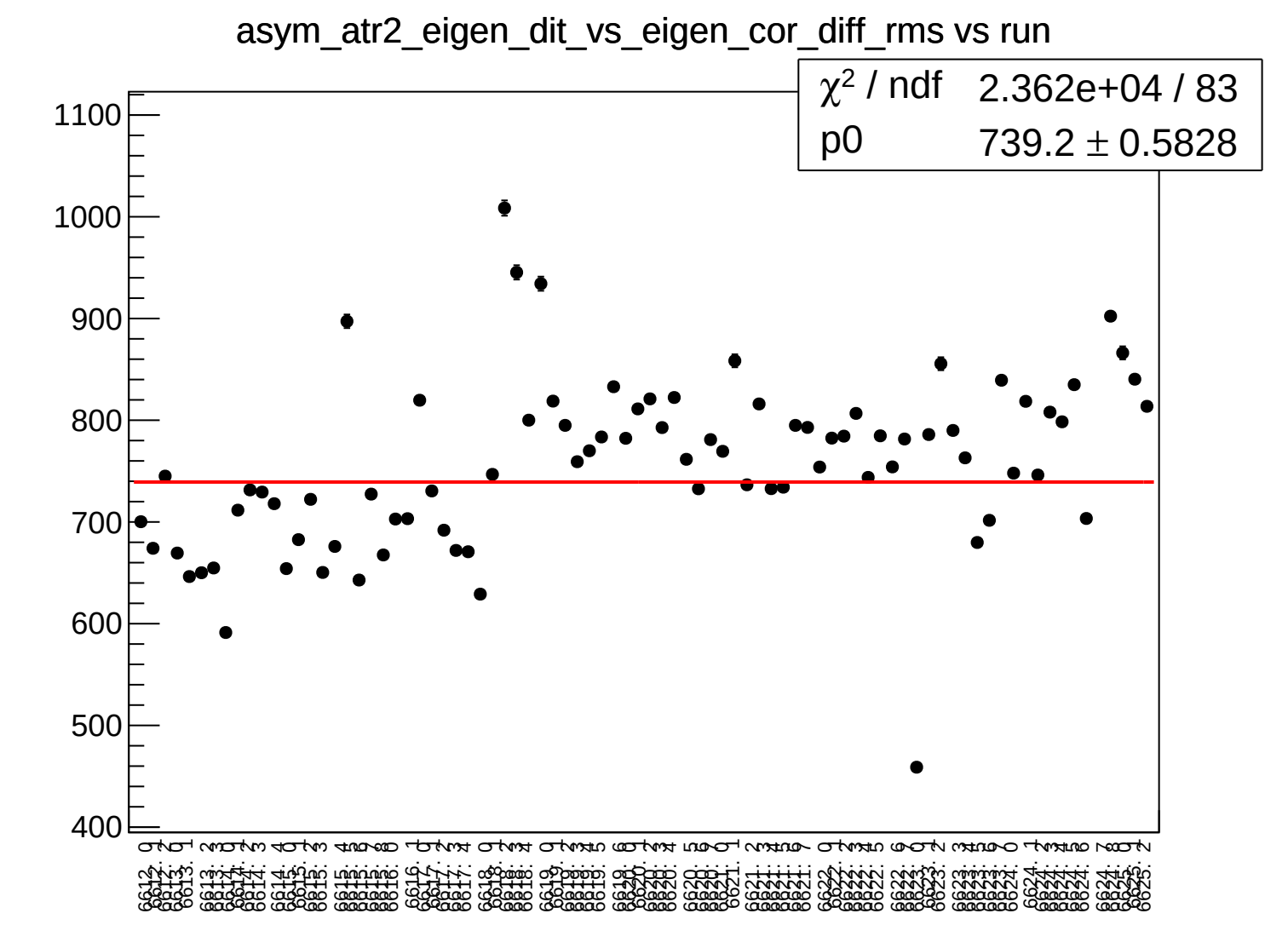

pull1D
Entries 84
Mean 0.01942
Std Dev 0.9289
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

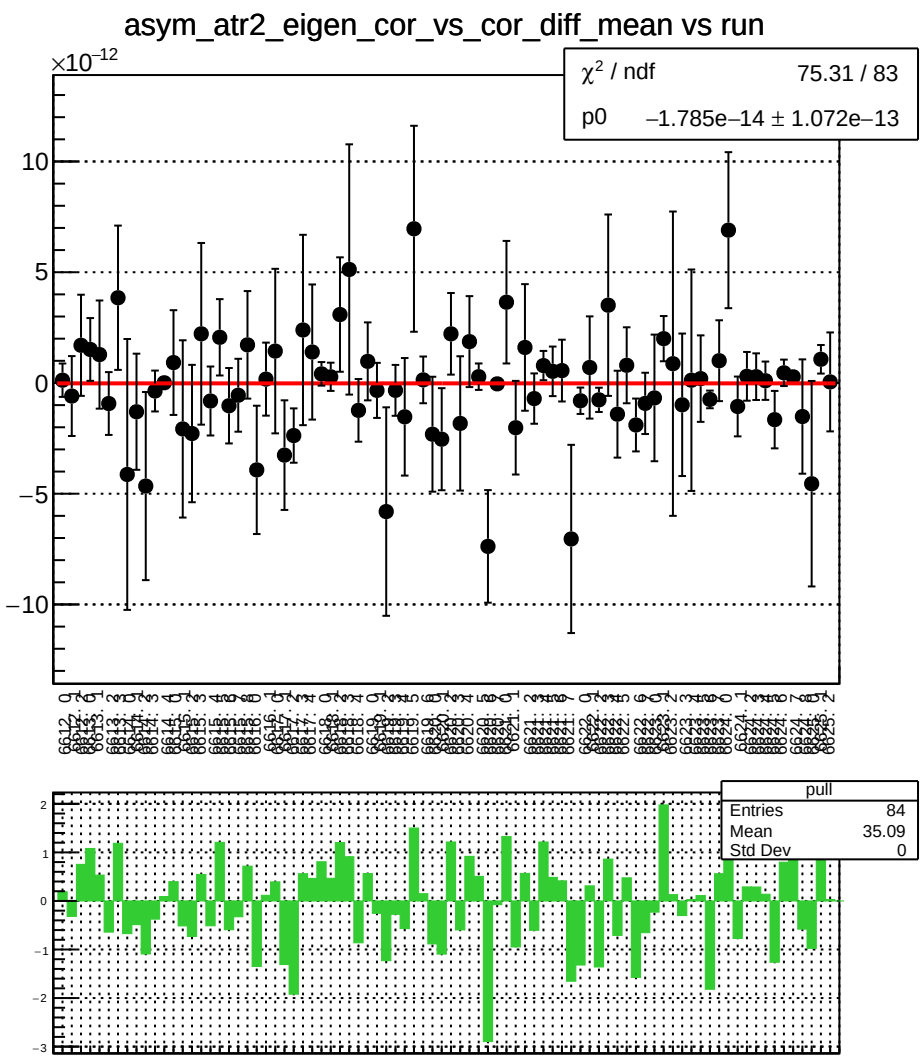

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.003e+04 / 83
p0 0.03885 ± 3.05e−05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
0.034

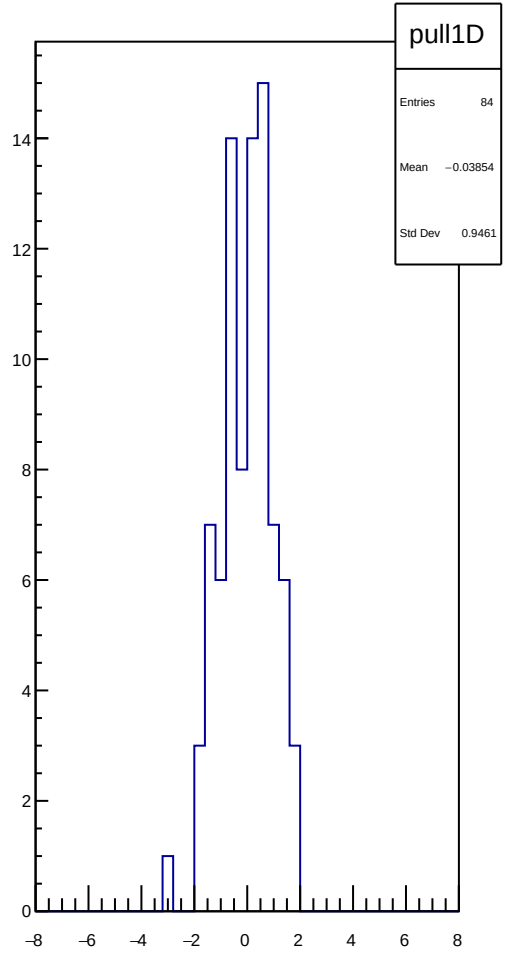

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.6 / 83
p0 0.4294 ± 0.8242
pull
Entries 84
Mean −3.149
Std Dev 0
pull1D
Entries 84
Mean 0.007252
Std Dev 0.8769

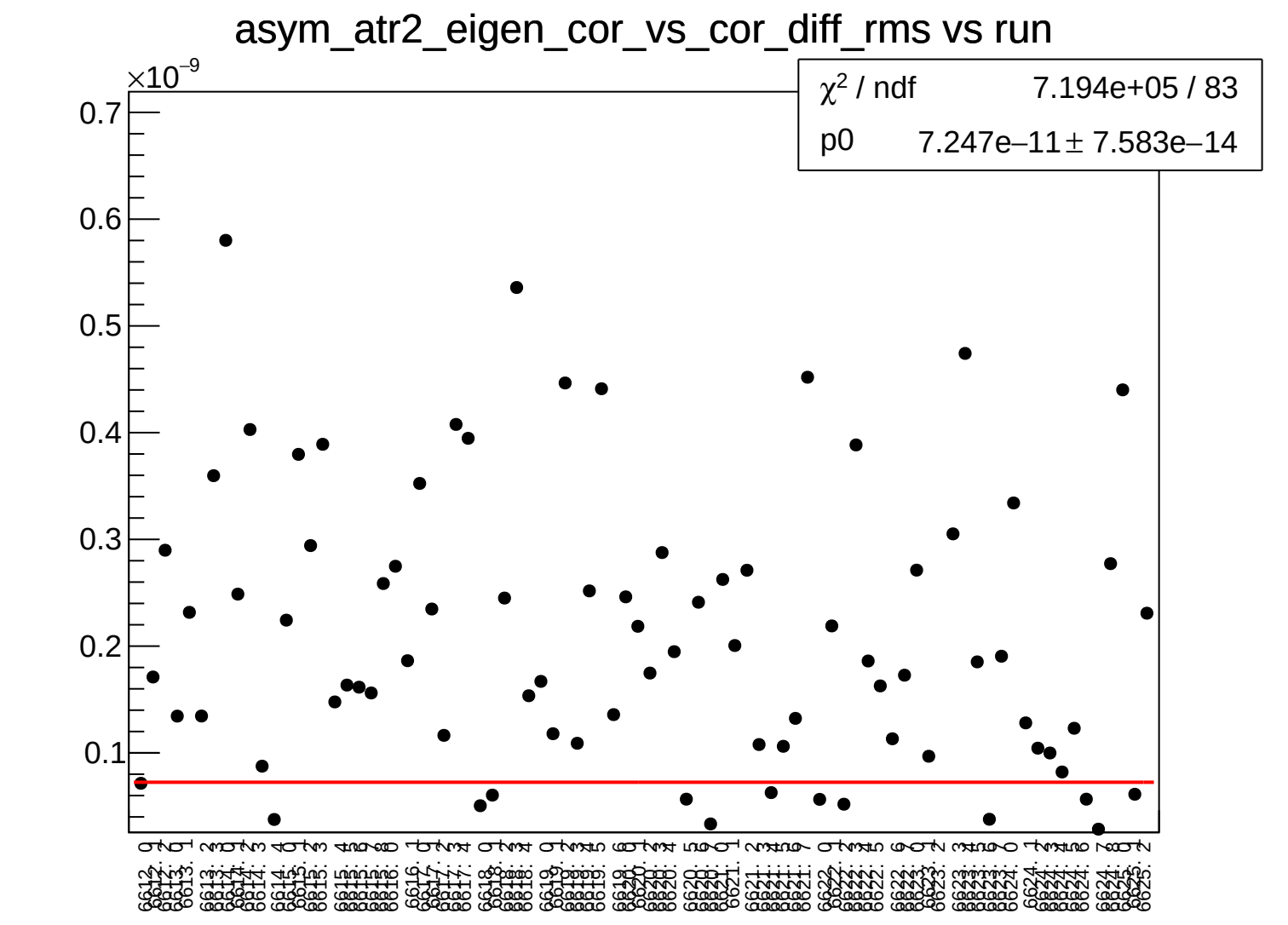

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.362e+04 / 83
p0 739.2 ± 0.5828
1100
1000
900
800
700
600
500
400

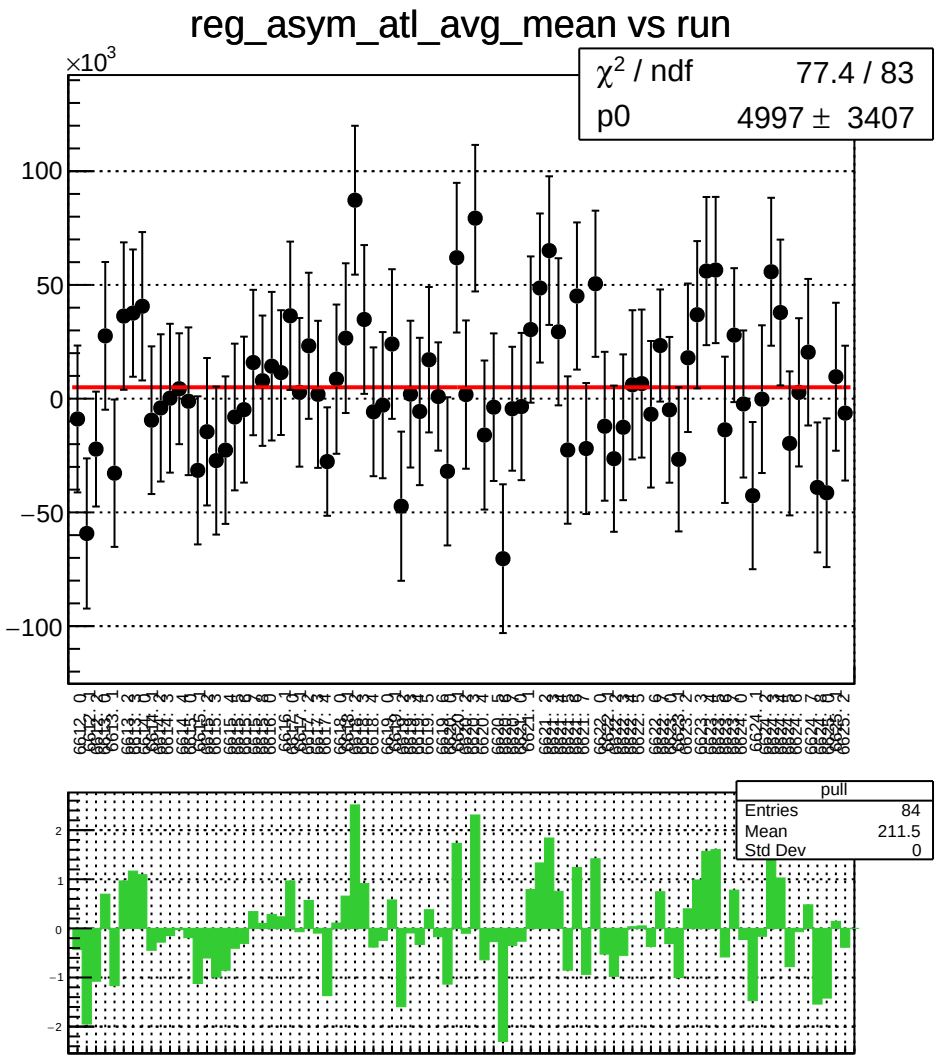

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.6 / 83
p0 0.4294 ± 0.8242
pull
Entries 84
Mean −3.149
Std Dev 0
pull1D
Entries 84
Mean 0.007252
Std Dev 0.8769

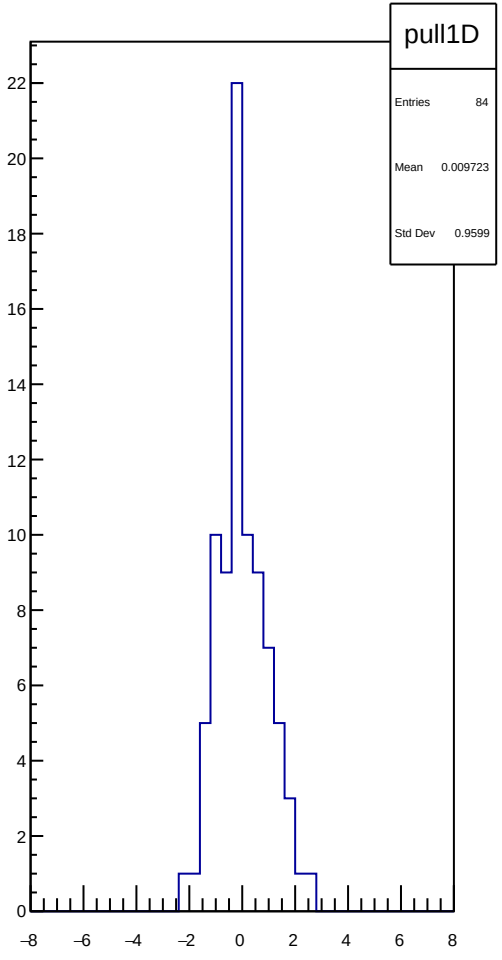

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.362e+04 / 83
p0 739.2 ± 0.5828
1100
1000
900
800
700
600
500
400

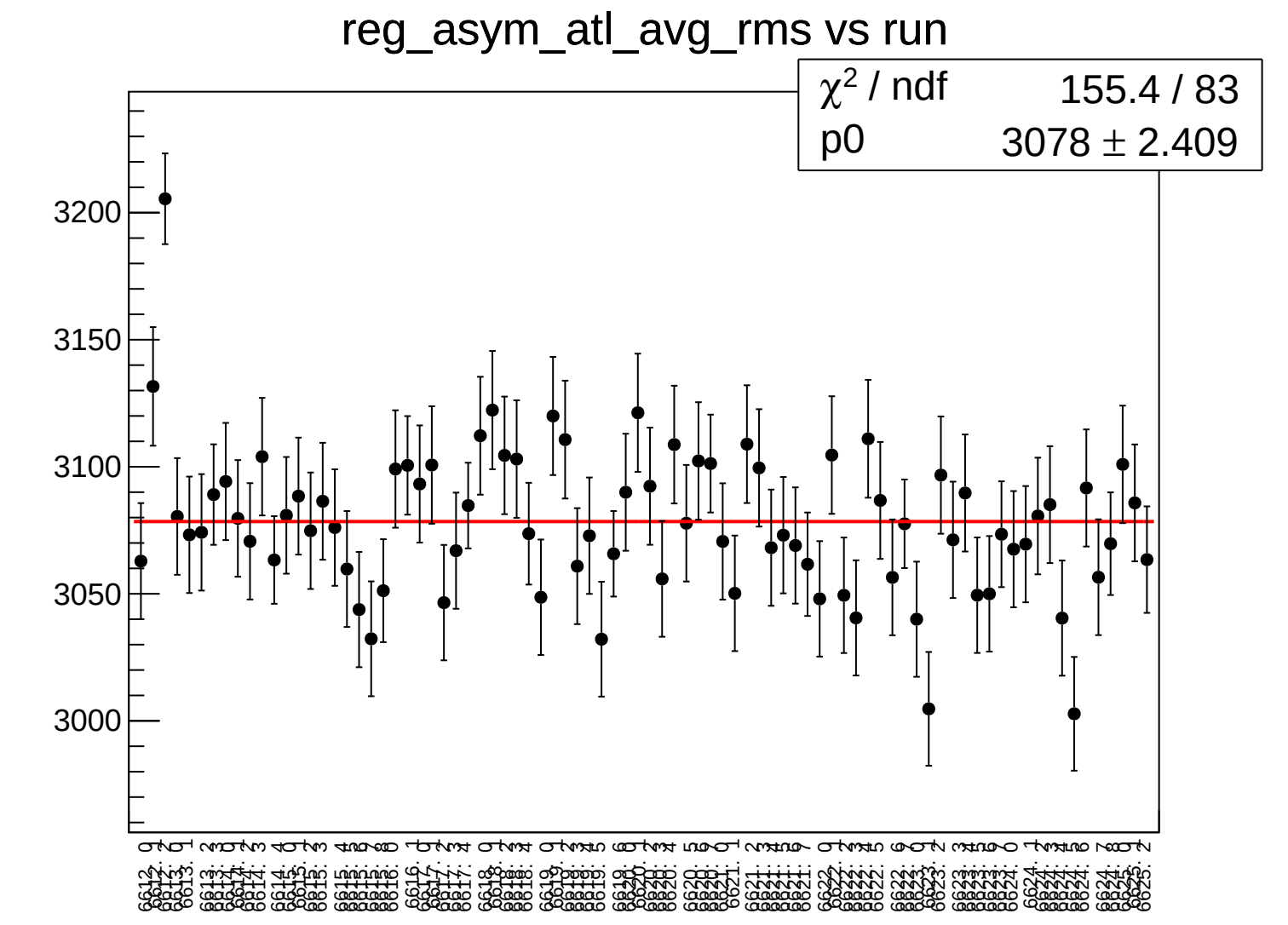

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.31 / 83
p0 −1.785e−14 ± 1.072e−13
pull
Entries 84
Mean 35.09
Std Dev 0

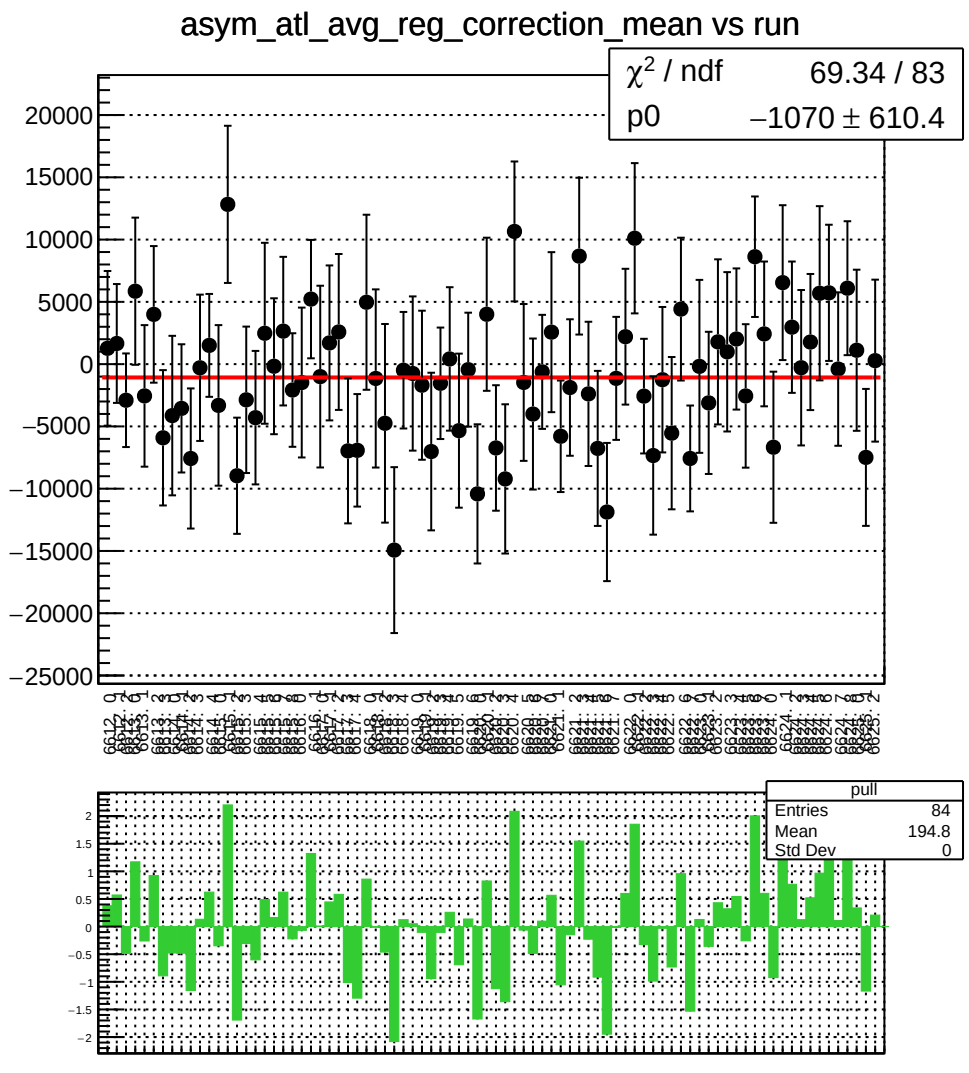

pull1D
Entries 84
Mean −0.03854
Std Dev 0.9461

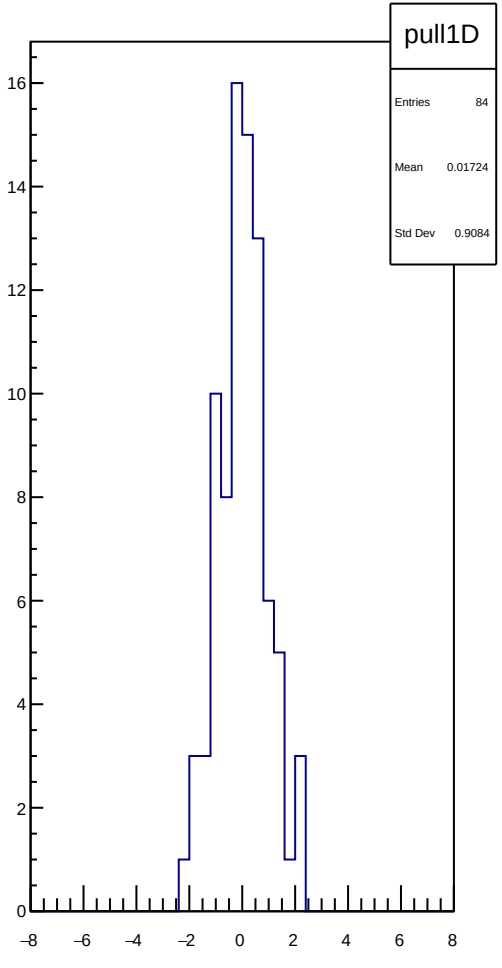

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.194e+05 / 83
p0 7.247e−11 ± 7.583e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

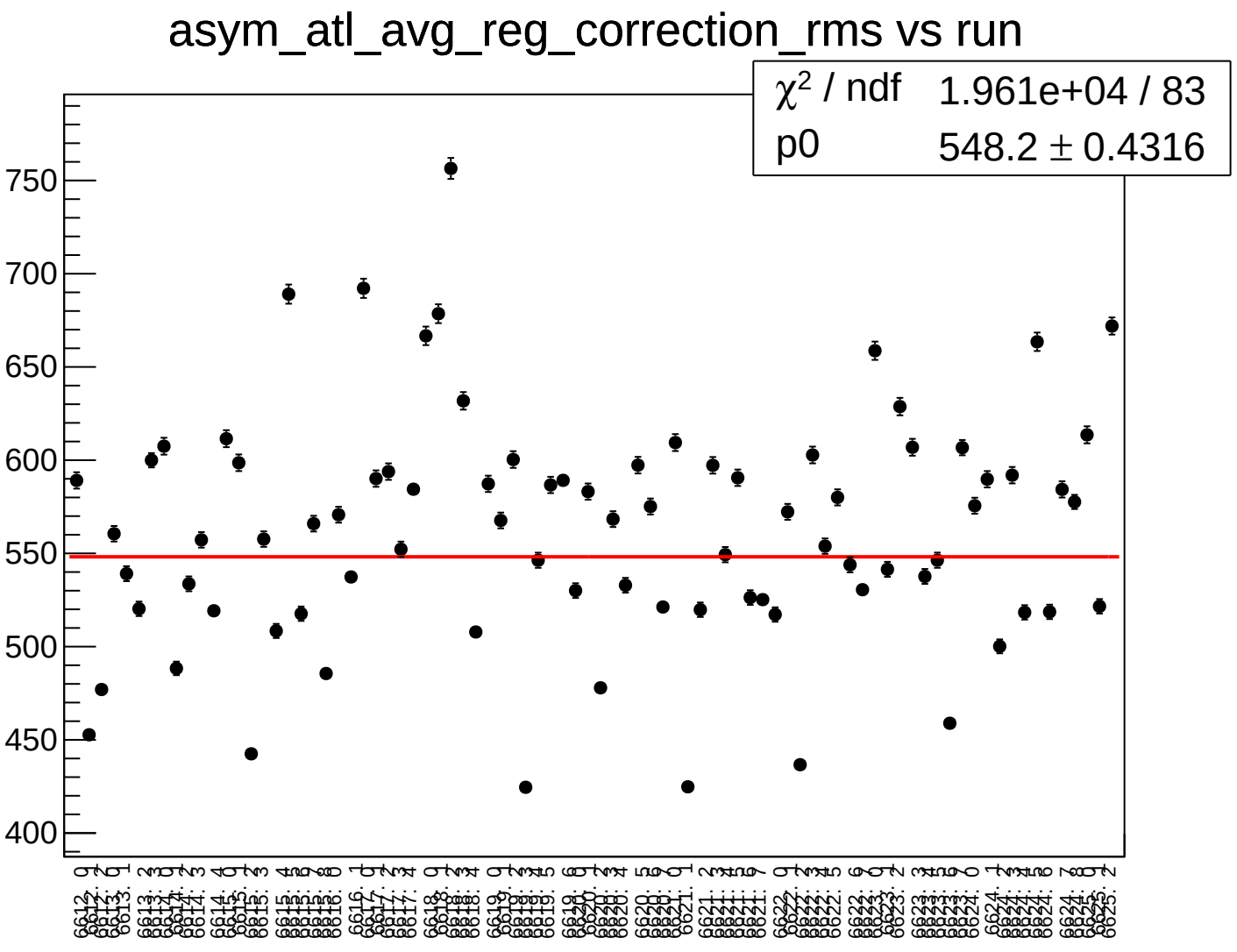

reg_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 77.4 / 83
p0 4997 ± 3407
100
50
0
−50
−100
pull
Entries 84
Mean 211.5
Std Dev 0
2
1
0
−1
−2

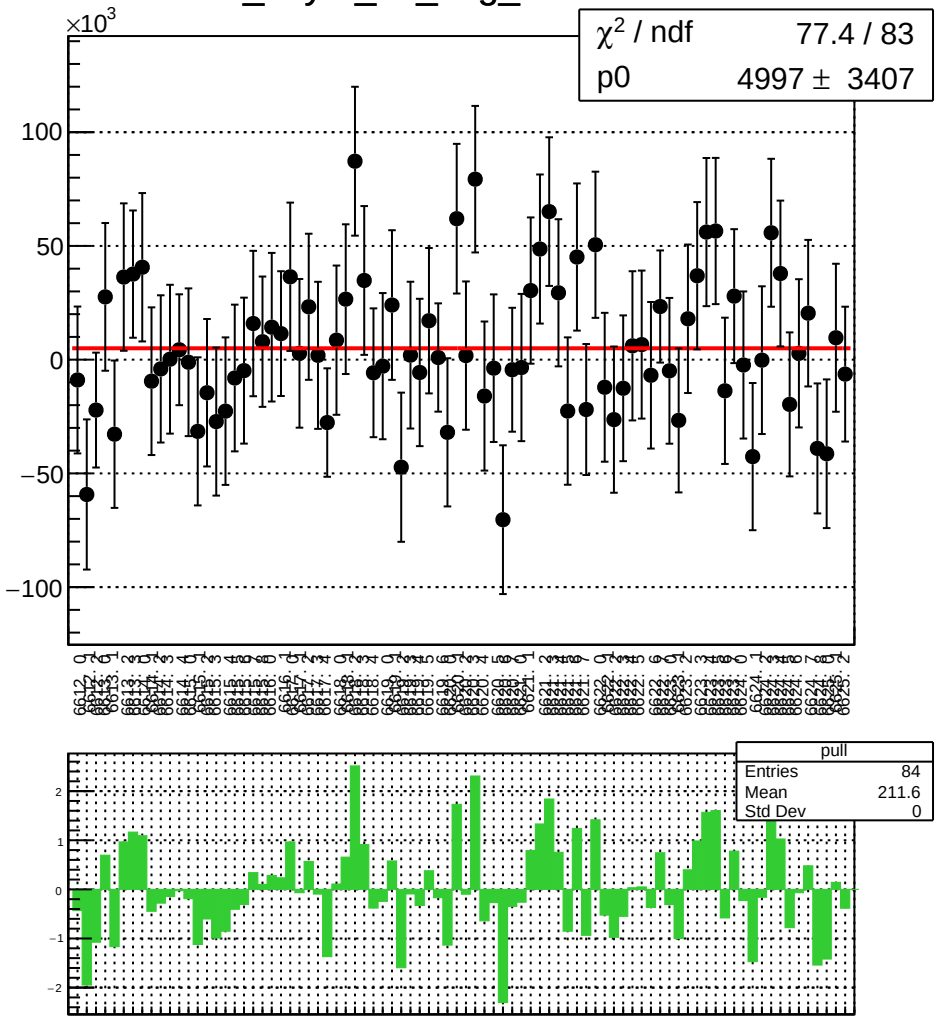

pull1D
Entries 84
Mean 0.009723
Std Dev 0.9599
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

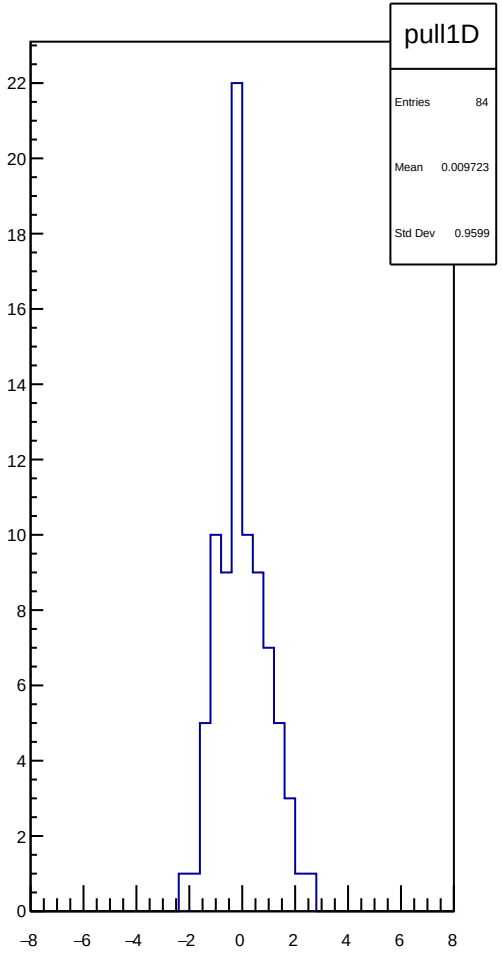

reg_asym_atl_avg_rms vs run
χ^2 / ndf 155.4 / 83
p0 3078 ± 2.409
3200
3150
3100
3050
3000

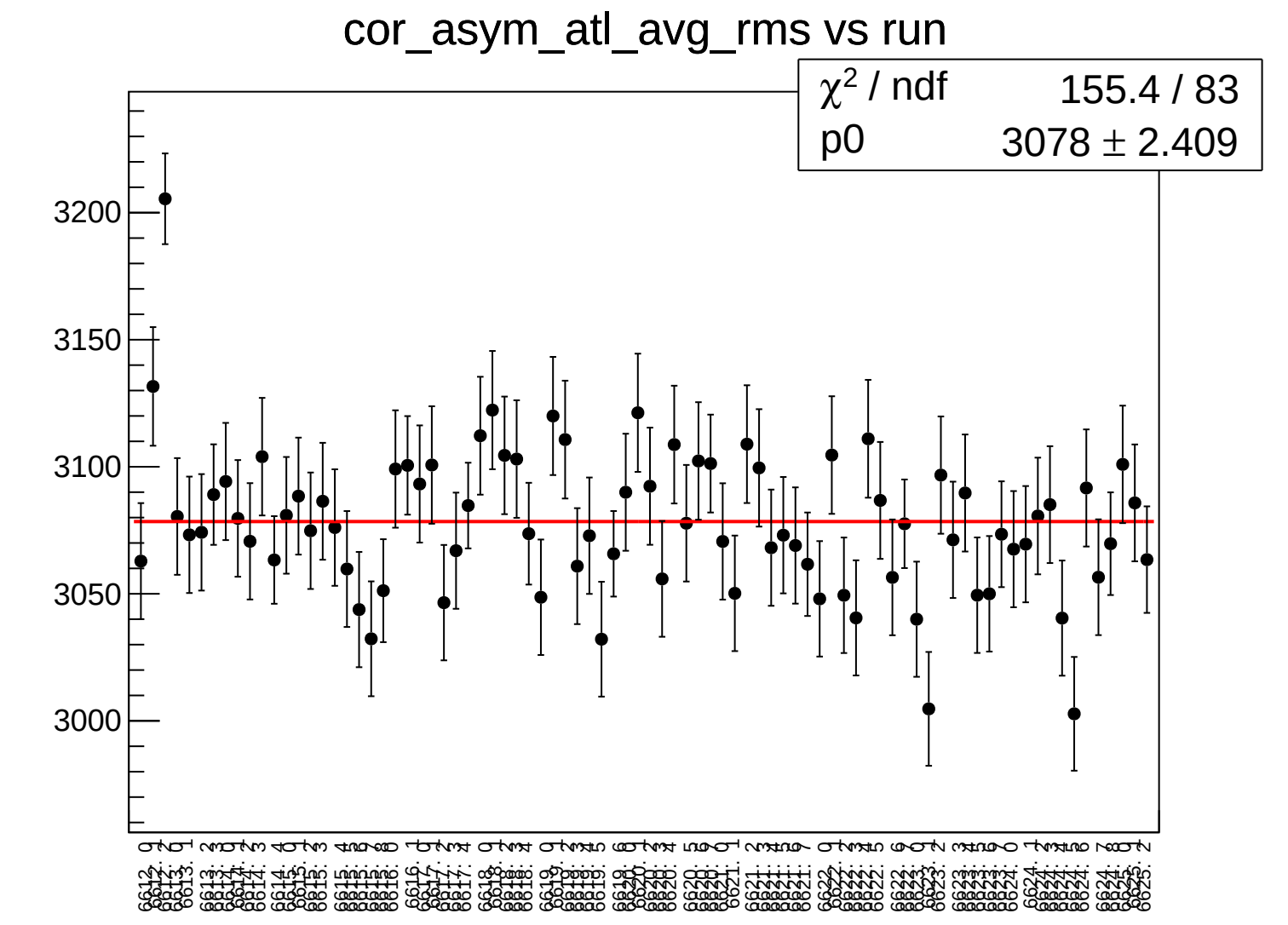

asym_atl_avg_reg_correction_mean vs run
χ² / ndf 69.34 / 83
p0 −1070 ± 610.4
pull
Entries 84
Mean 194.8
Std Dev 0

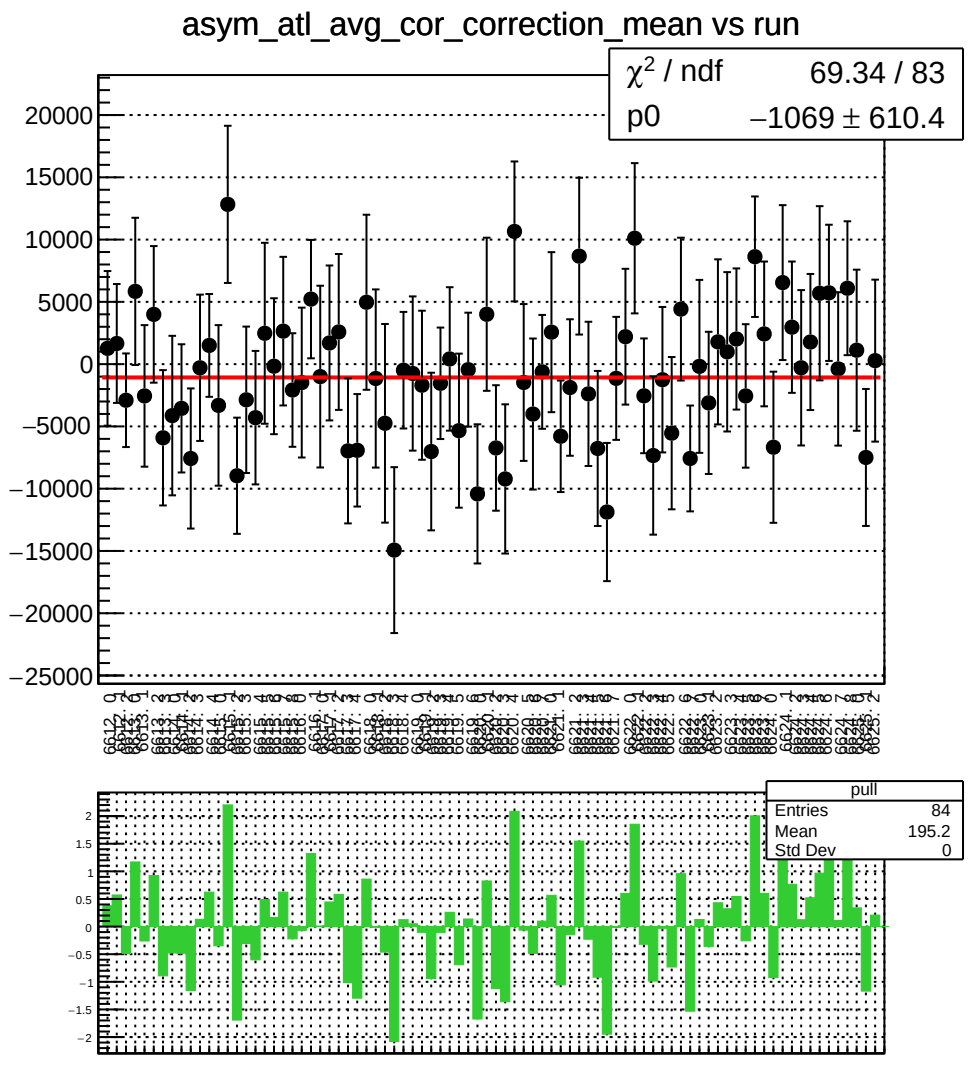

pull1D
Entries 84
Mean 0.01724
Std Dev 0.9084

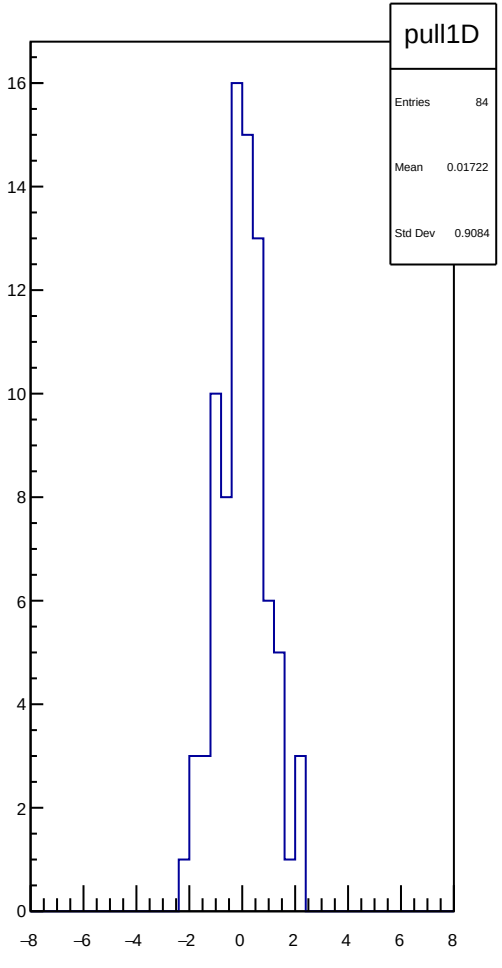

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 1.961e+04 / 83
p0 548.2 ± 0.4316
750
700
650
600
550
500
450
400

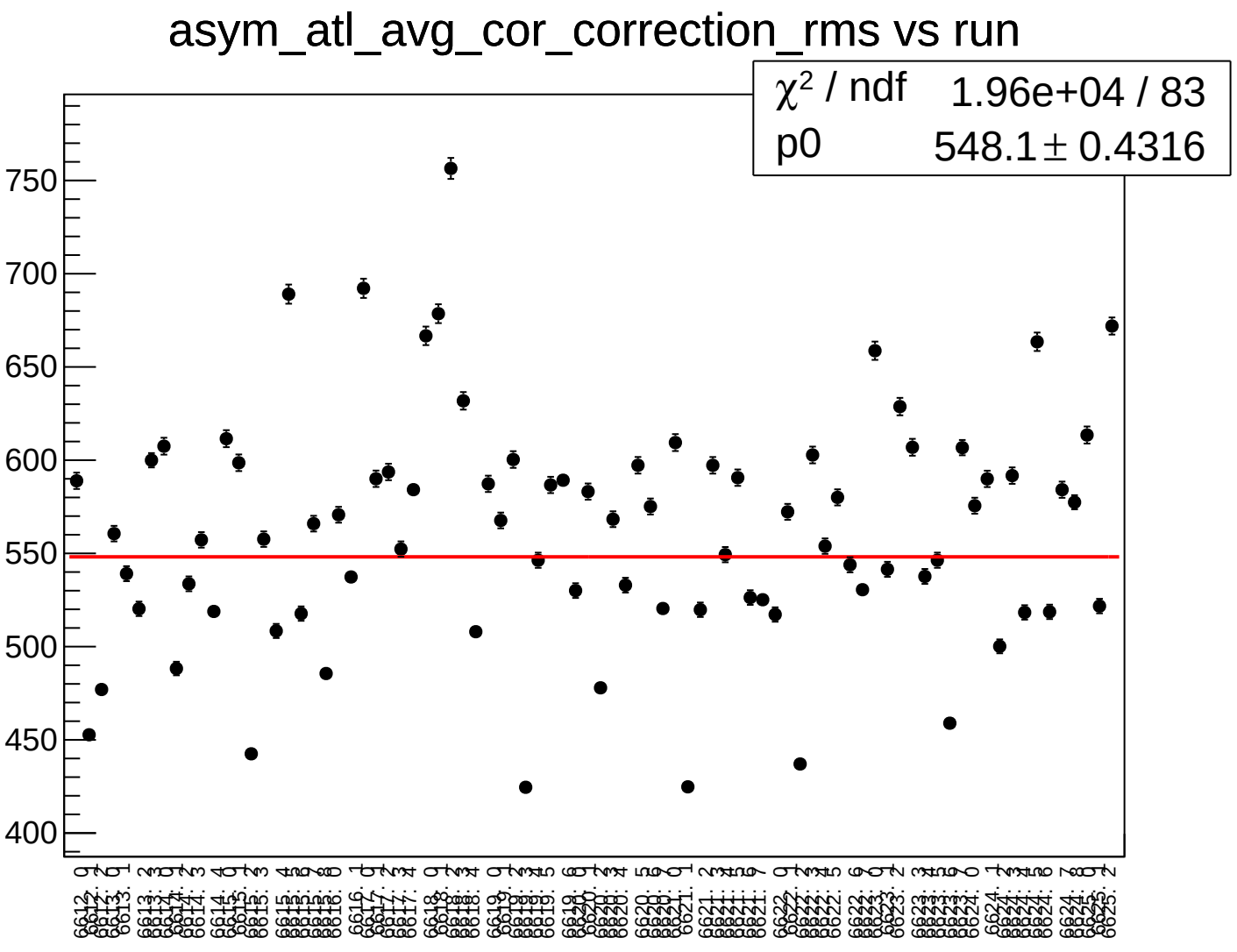

cor_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 77.4 / 83
p0 4997 ± 3407
100
50
0
−50
−100
pull
Entries 84
Mean 211.6
Std Dev 0
2
1
0
−1
−2

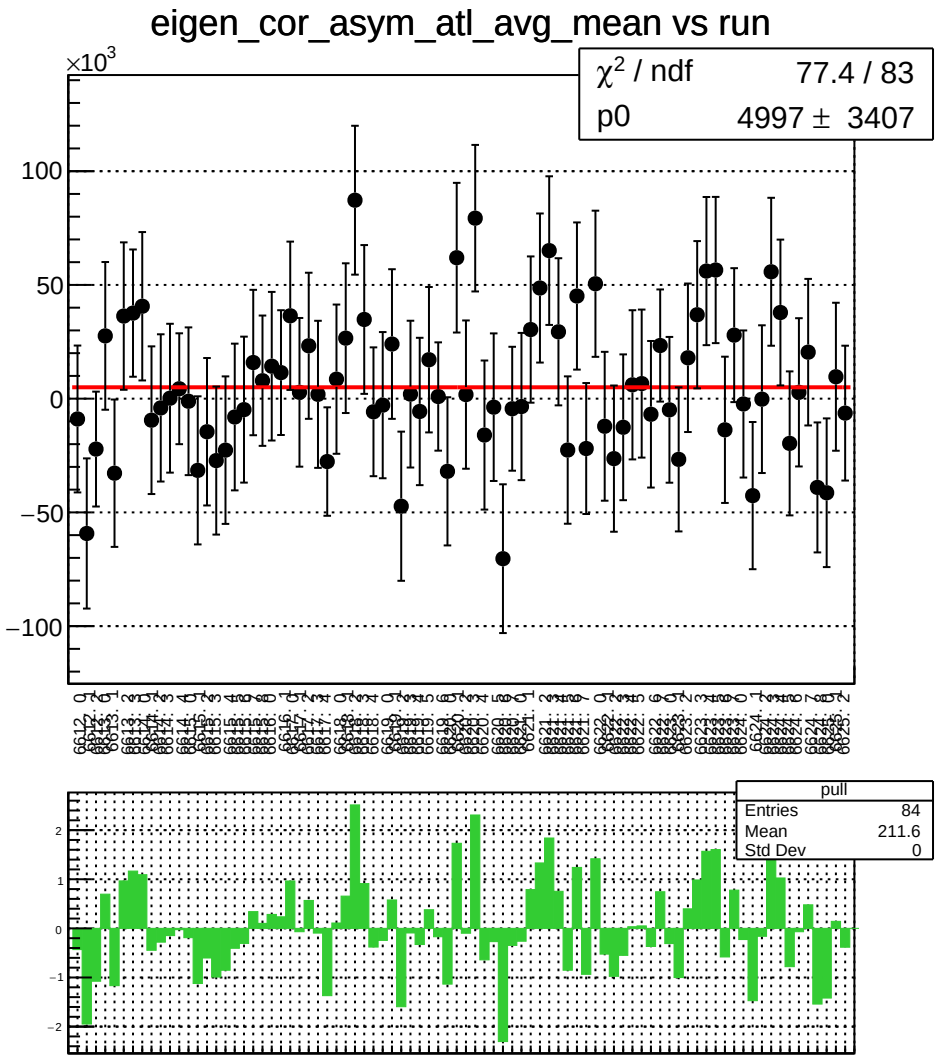

pull1D
Entries 84
Mean 0.009723
Std Dev 0.9599
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

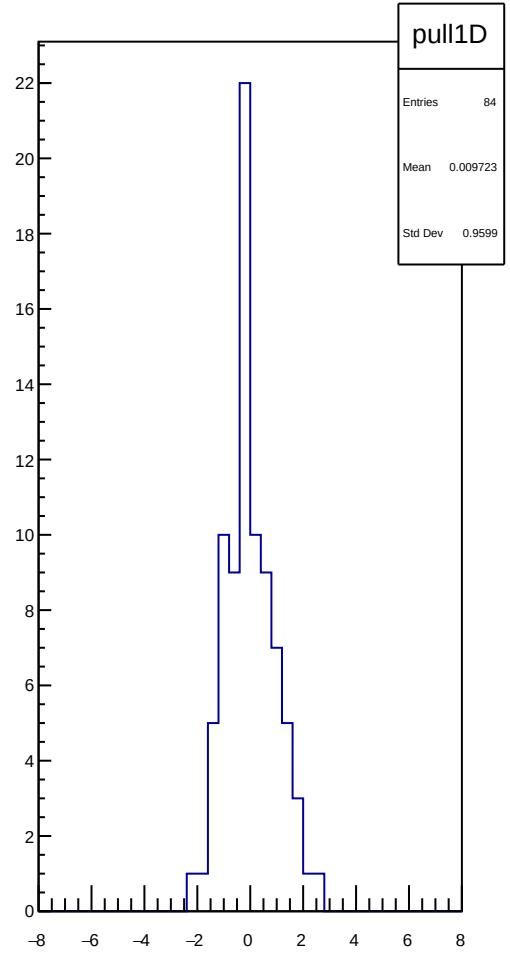

cor_asym_atl_avg_rms vs run
χ^2 / ndf 155.4 / 83
p0 3078 ± 2.409
3200
3150
3100
3050
3000

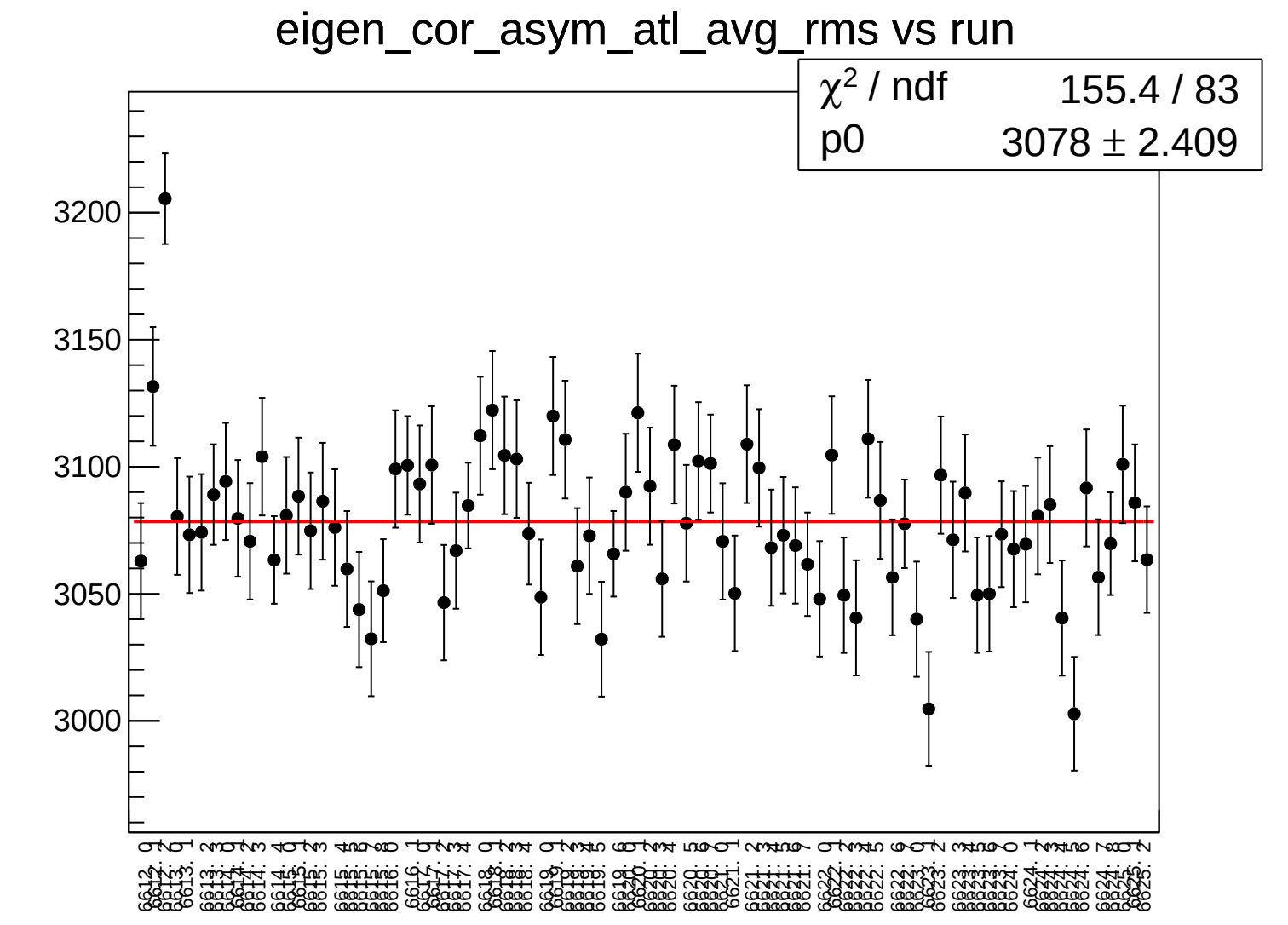

asym_atl_avg_cor_correction_mean vs run
χ² / ndf 69.34 / 83
p0 −1069 ± 610.4
pull
Entries 84
Mean 195.2
Std Dev 0

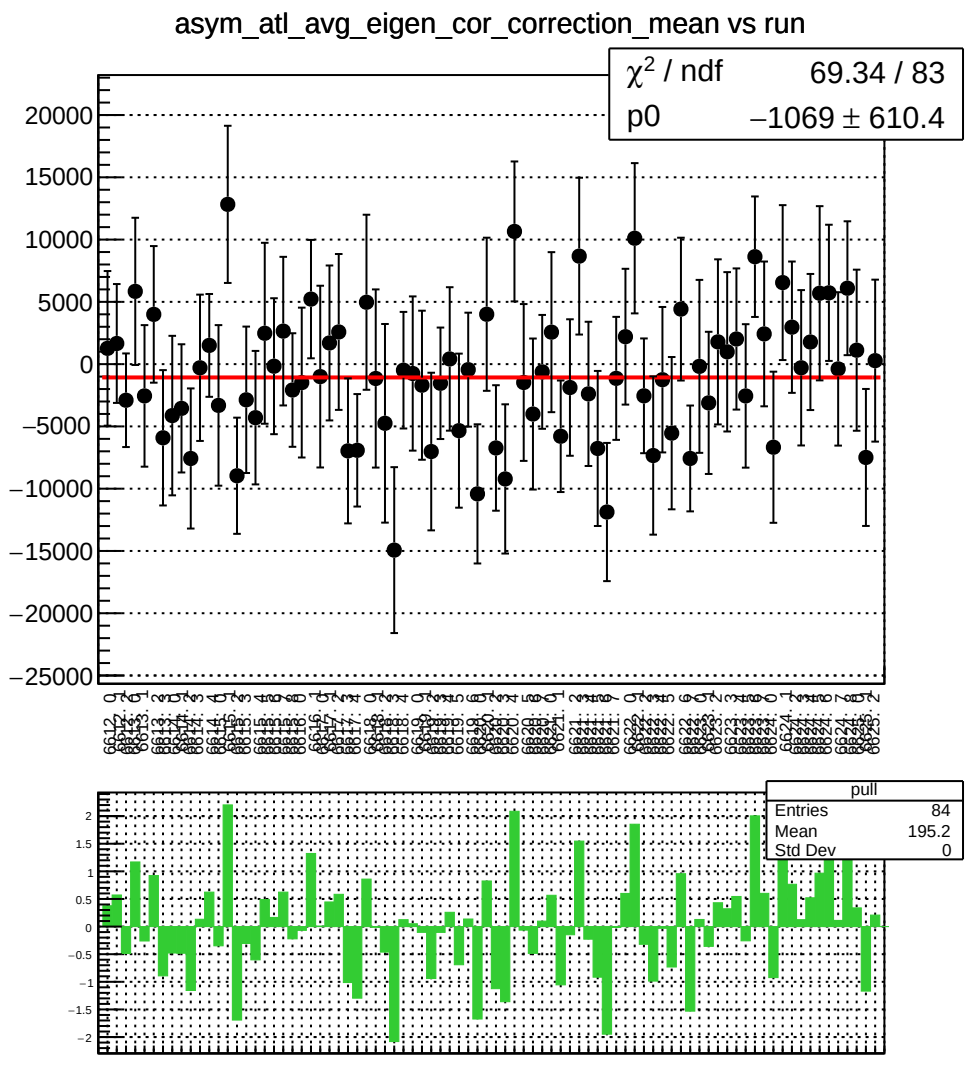

pull1D
Entries 84
Mean 0.01722
Std Dev 0.9084

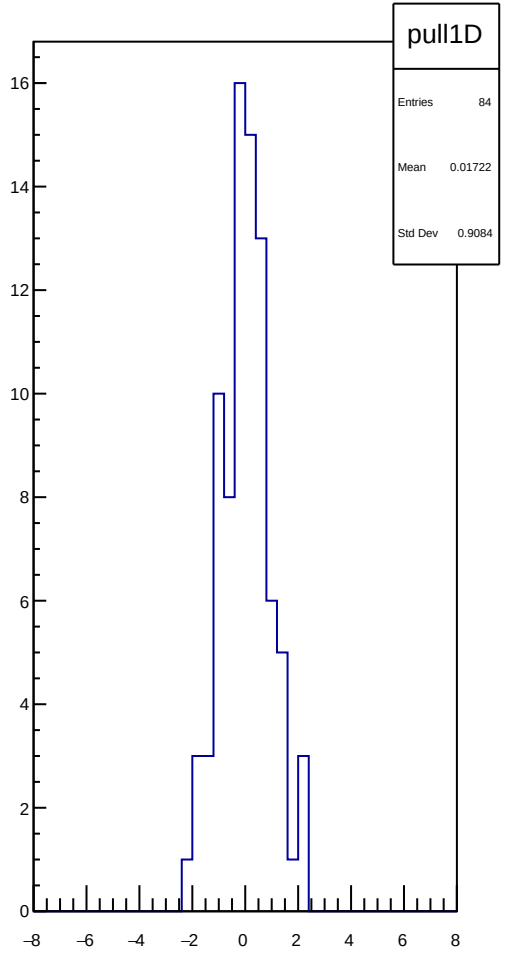

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 1.96e+04 / 83
p0 548.1 ± 0.4316
750
700
650
600
550
500
450
400

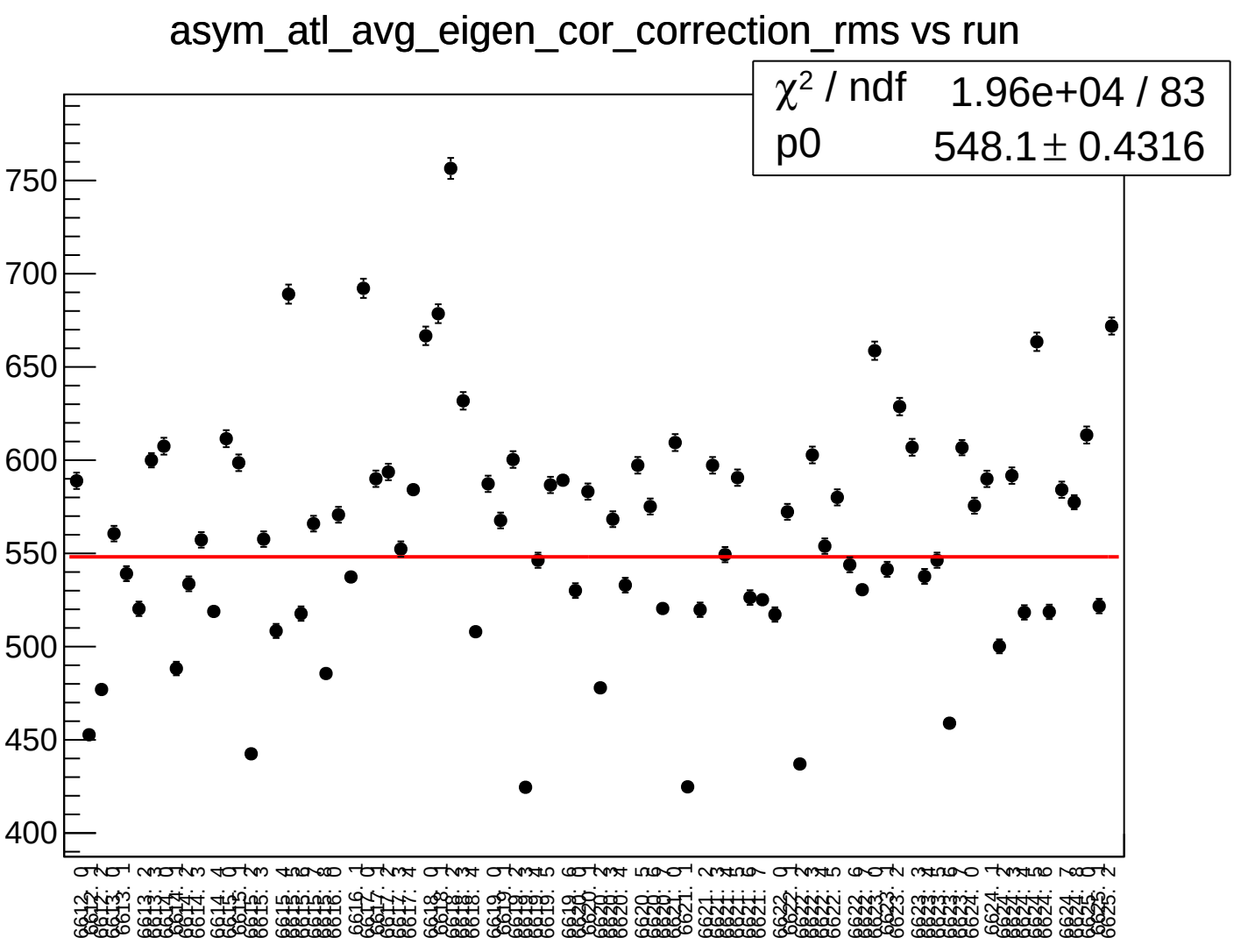

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 77.4 / 83
p0 4997 ± 3407
×10³
100
50
0
−50
−100
pull
Entries 84
Mean 211.6
Std Dev 0
2
1
0
−1
−2

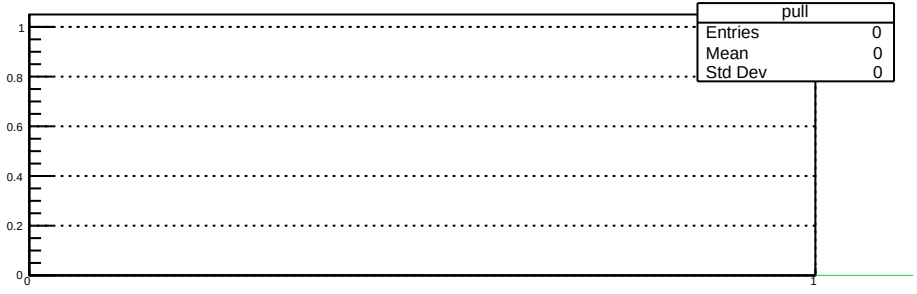

pull1D
Entries 84
Mean 0.009723
Std Dev 0.9599
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

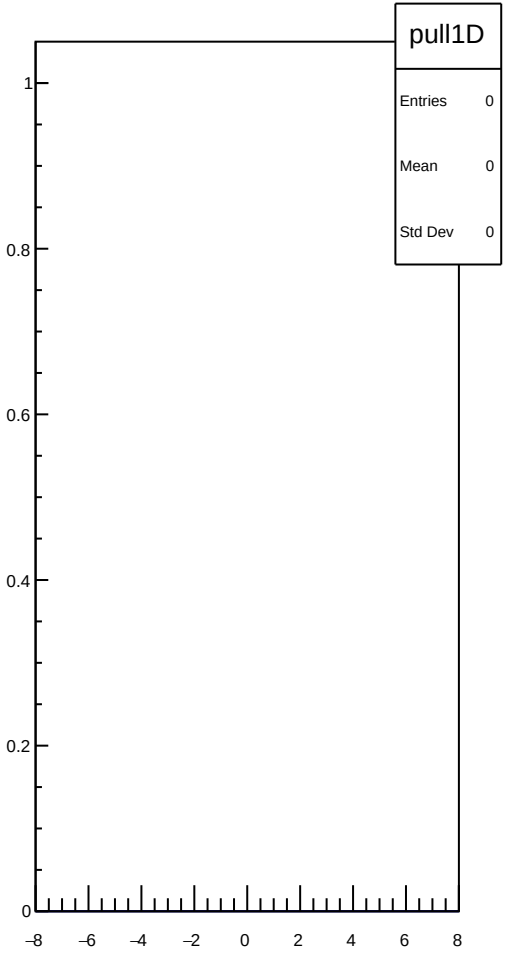

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 155.4 / 83
p0 3078 ± 2.409
3200
3150
3100
3050
3000

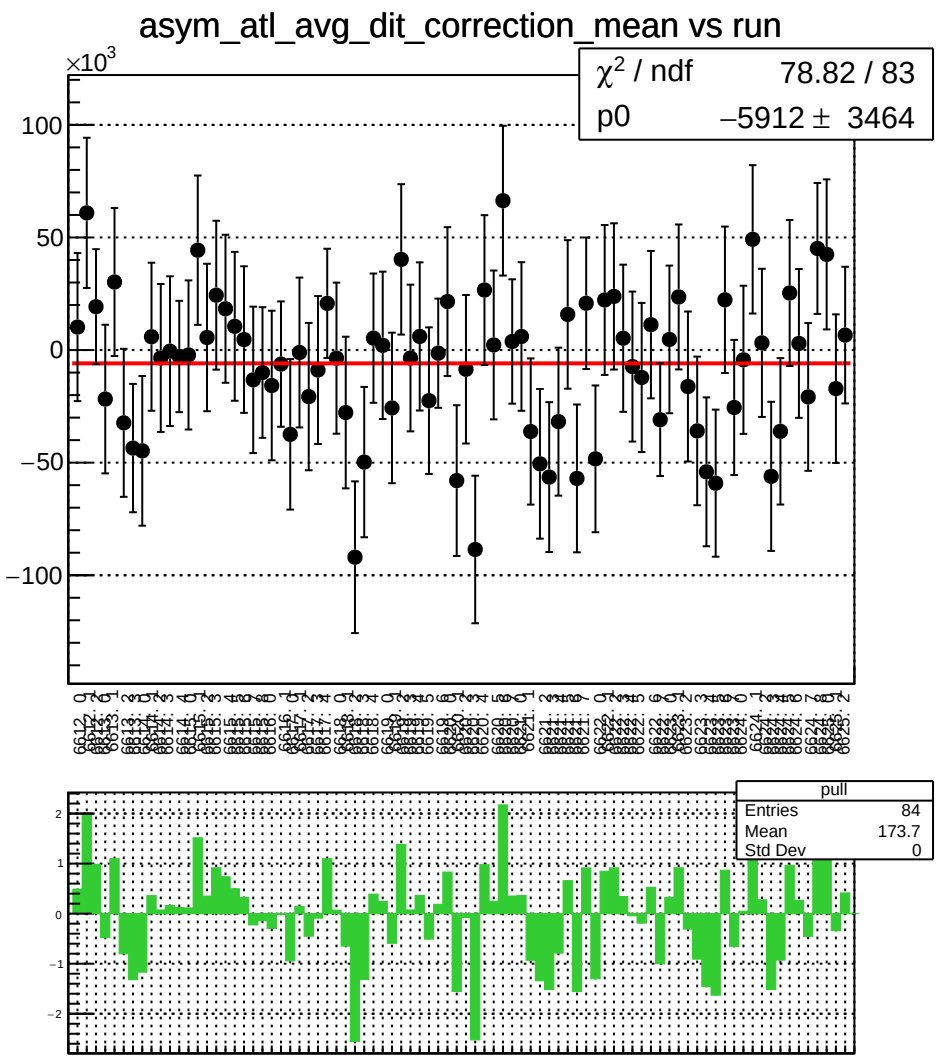

asym_atl_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.34 / 83
p0 −1069 ± 610.4
pull
Entries 84
Mean 195.2
Std Dev 0

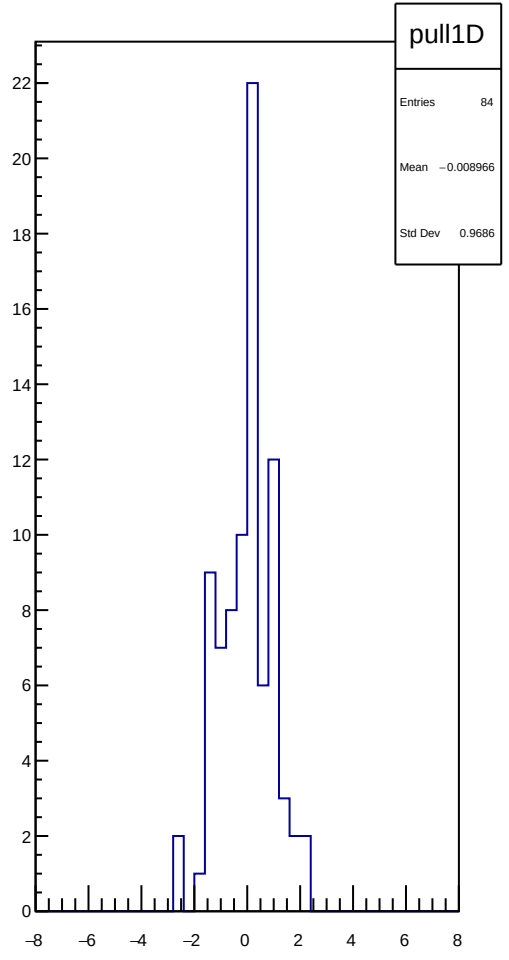

pull1D
Entries 84
Mean 0.01722
Std Dev 0.9084


asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.96e+04 / 83
p0 548.1 ± 0.4316
750
700
650
600
550
500
450
400

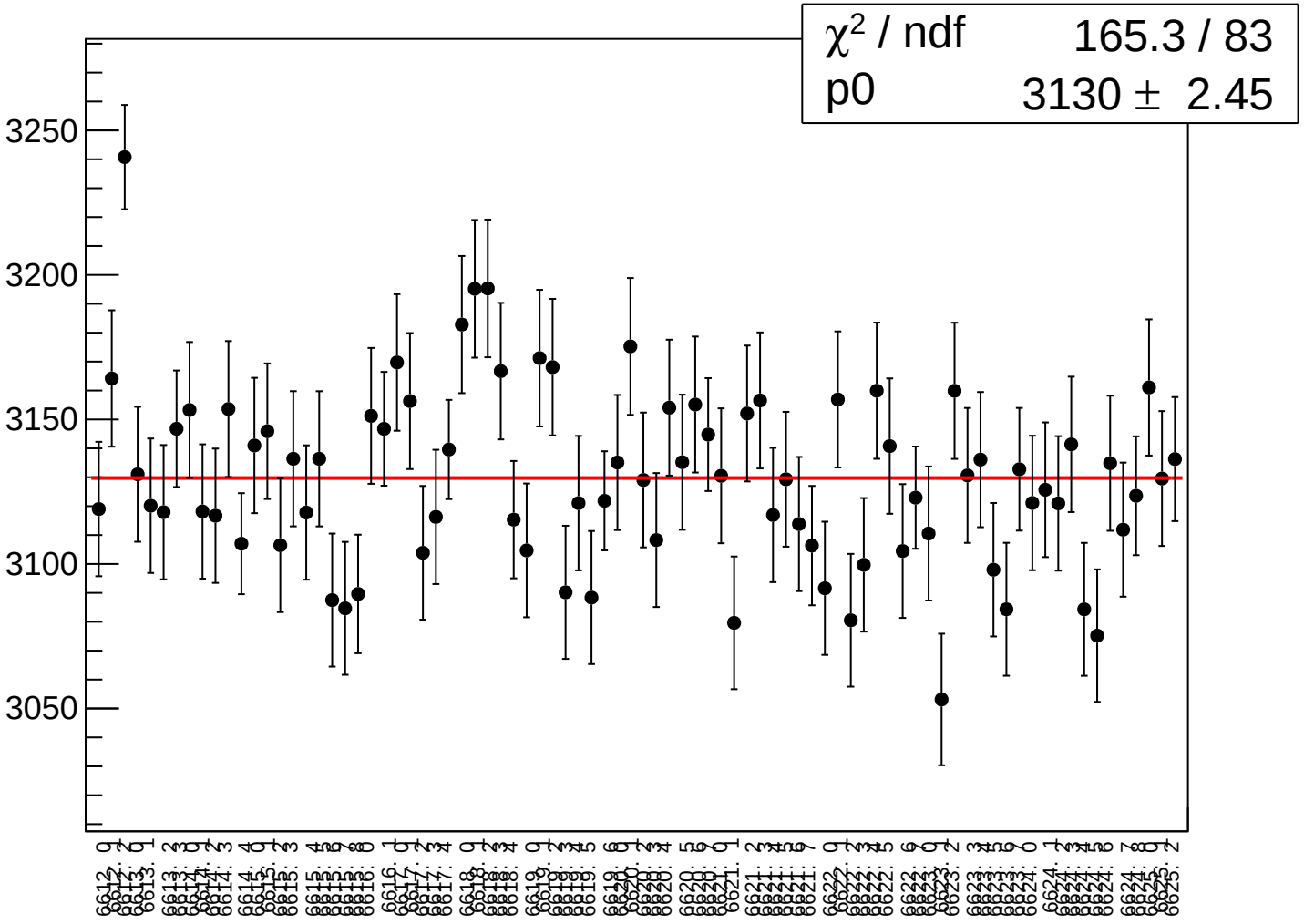

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

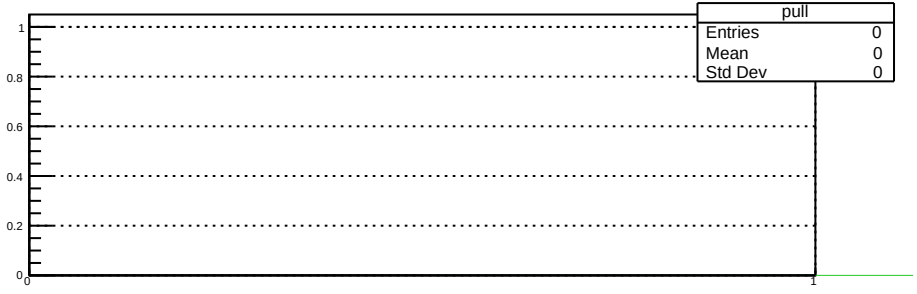

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

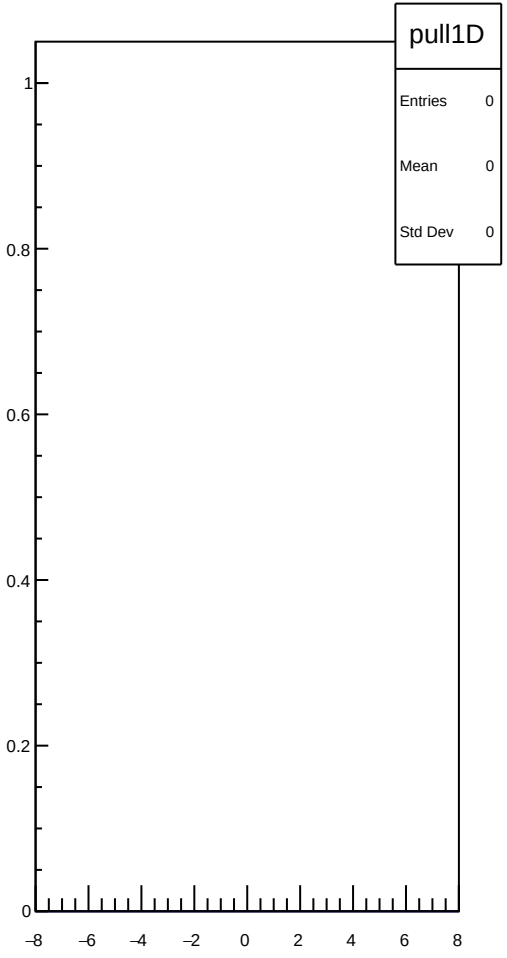

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 78.82 / 83
p0 −5912 ± 3464
100
50
0
−50
−100
pull
Entries 84
Mean 173.7
Std Dev 0
2
1
0
−1
−2

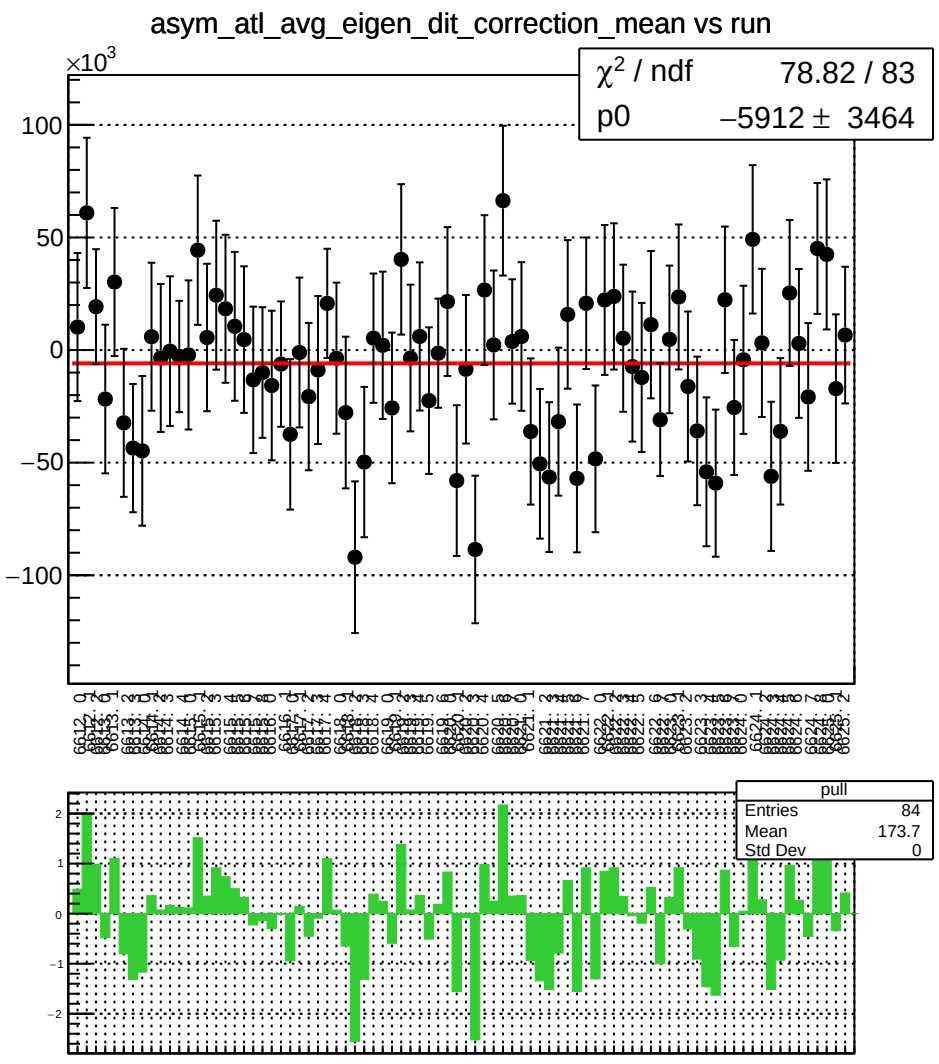

pull1D
Entries 84
Mean −0.008966
Std Dev 0.9686
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

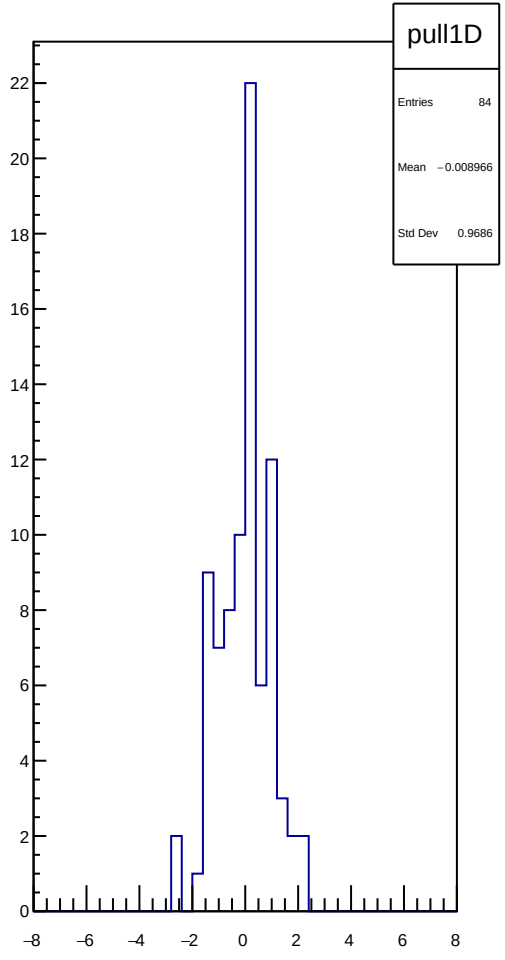
asym_atl_avg_dit_correction_rms vs run

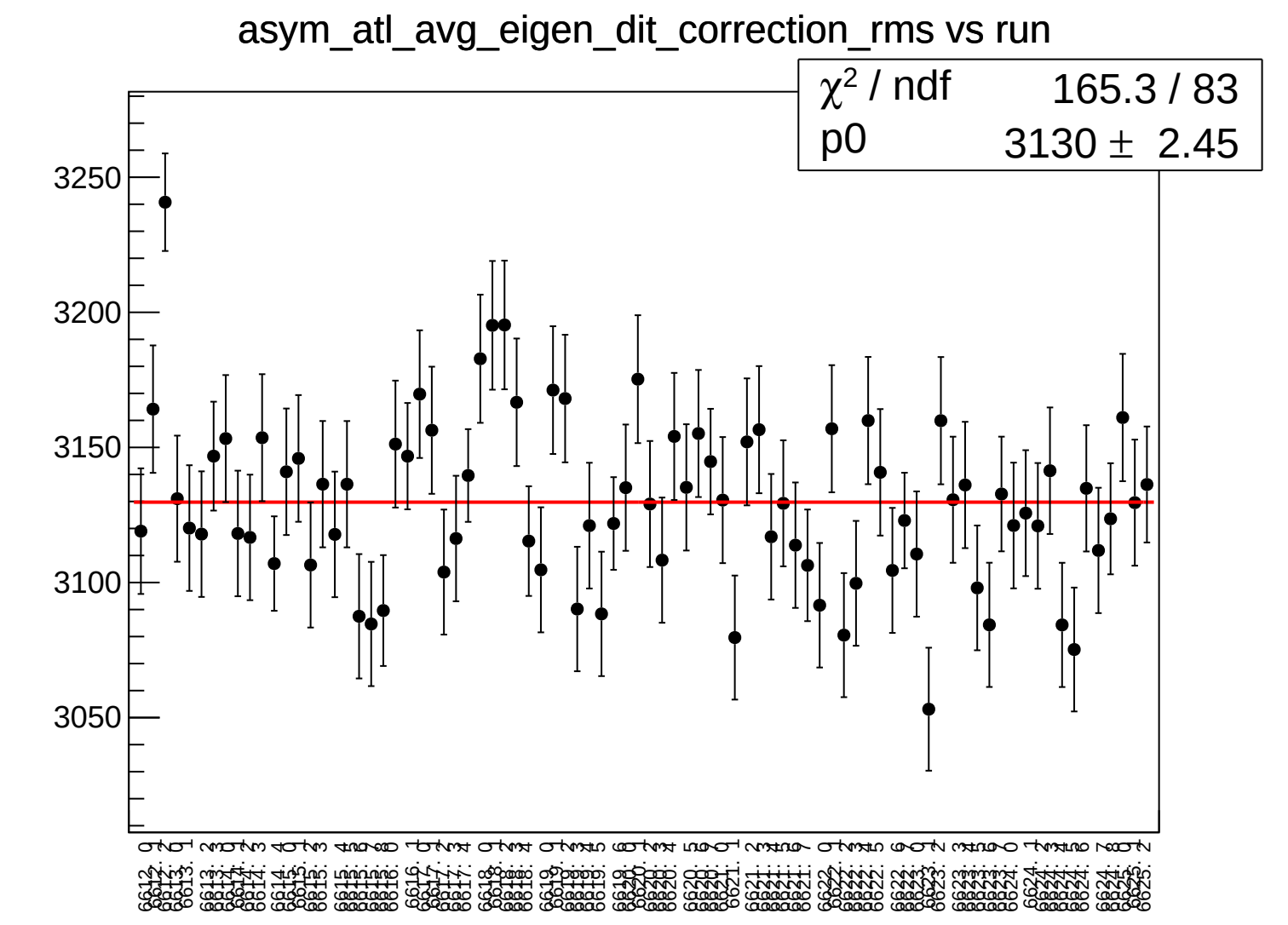


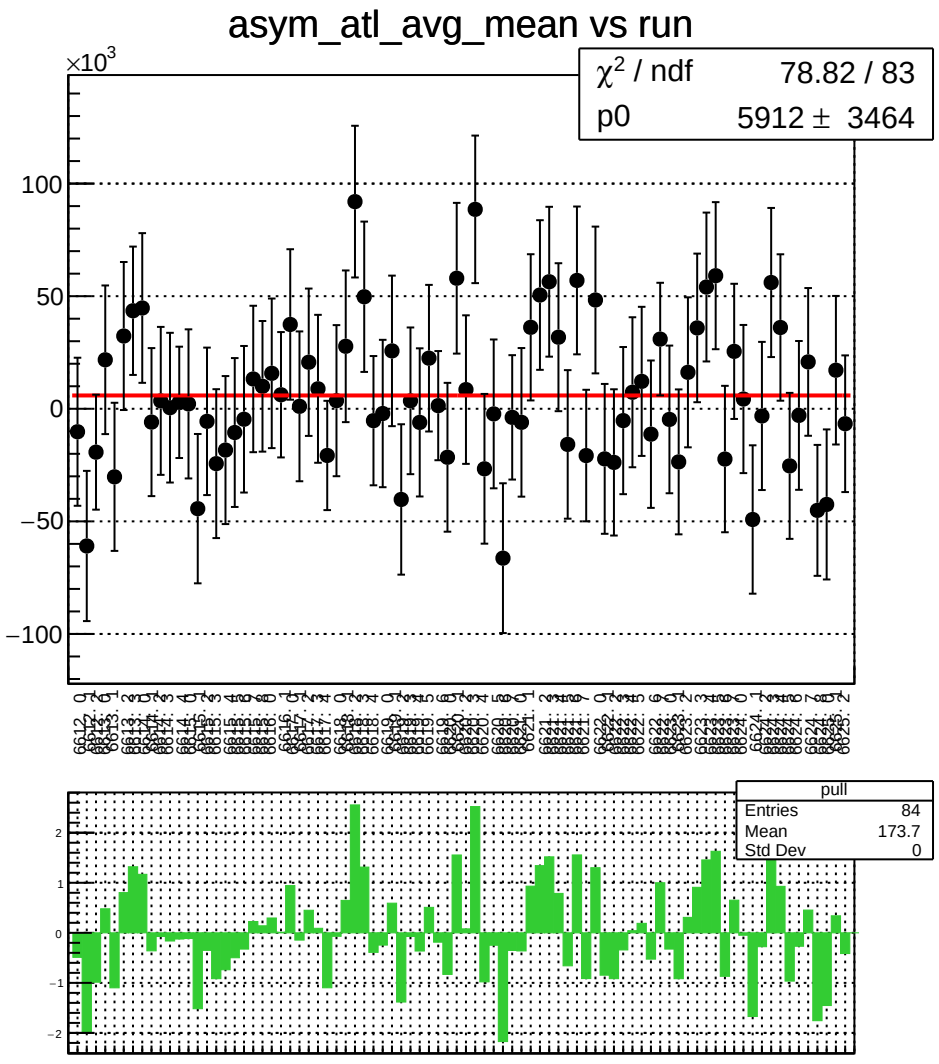

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

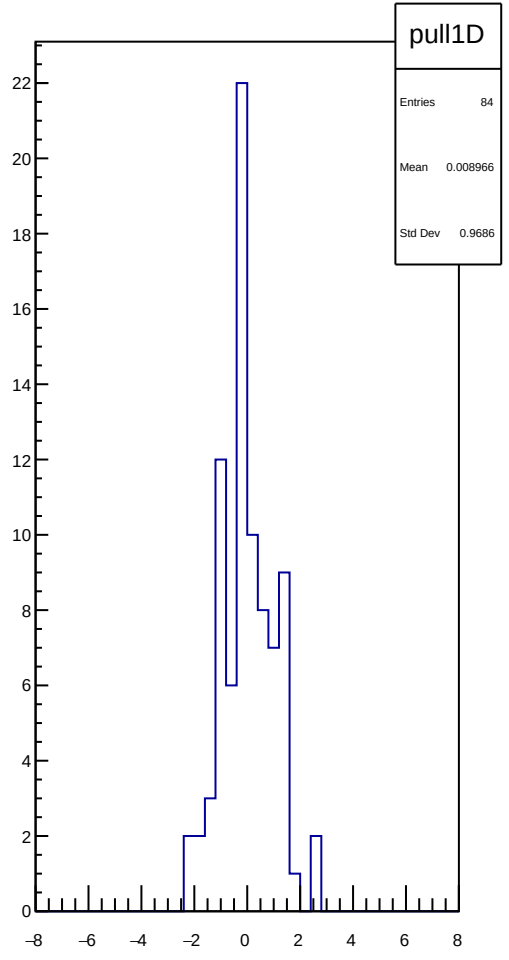

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

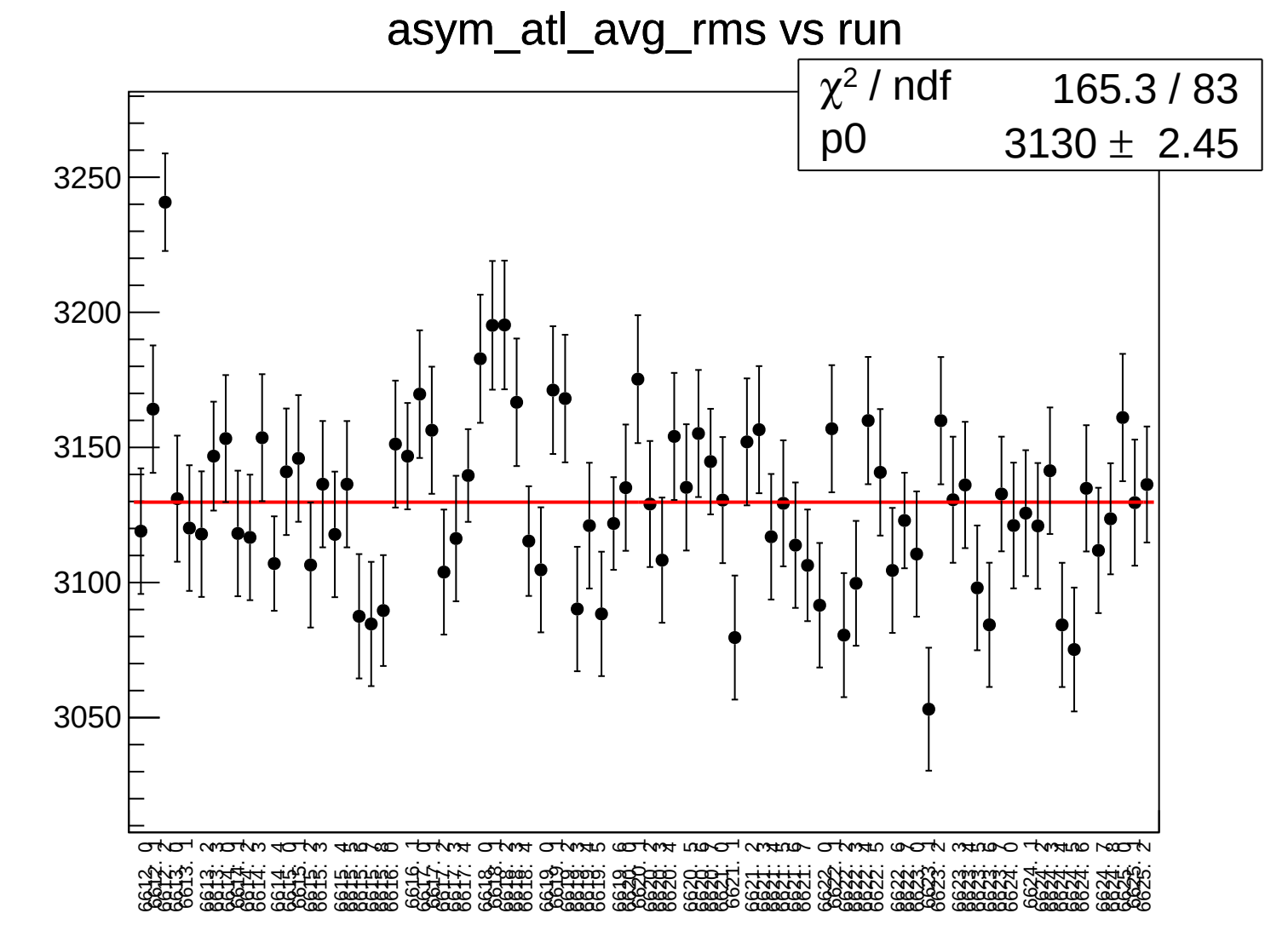

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.82 / 83
p0 −5912 ± 3464
100
50
0
−50
−100
pull
Entries 84
Mean 173.7
Std Dev 0
2
1
0
−1
−2

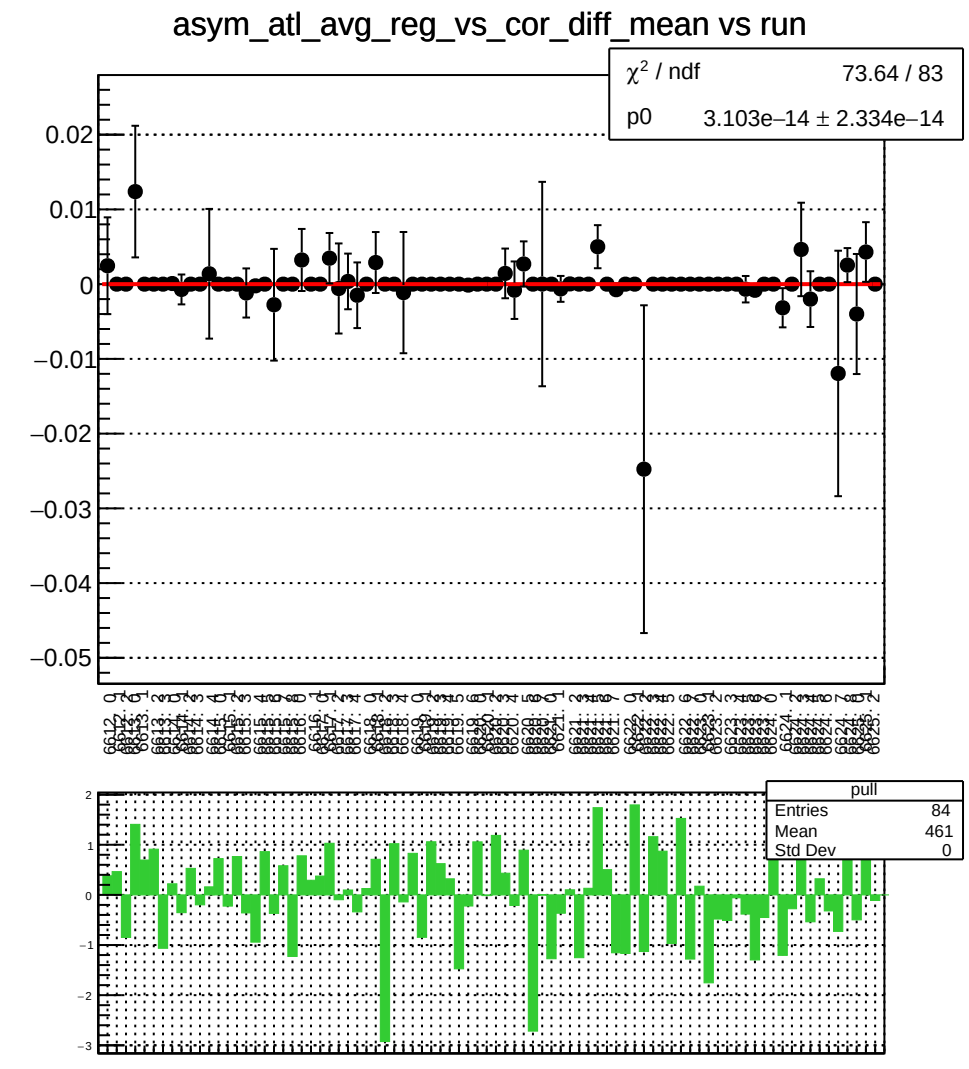

pull1D
Entries 84
Mean −0.008966
Std Dev 0.9686
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

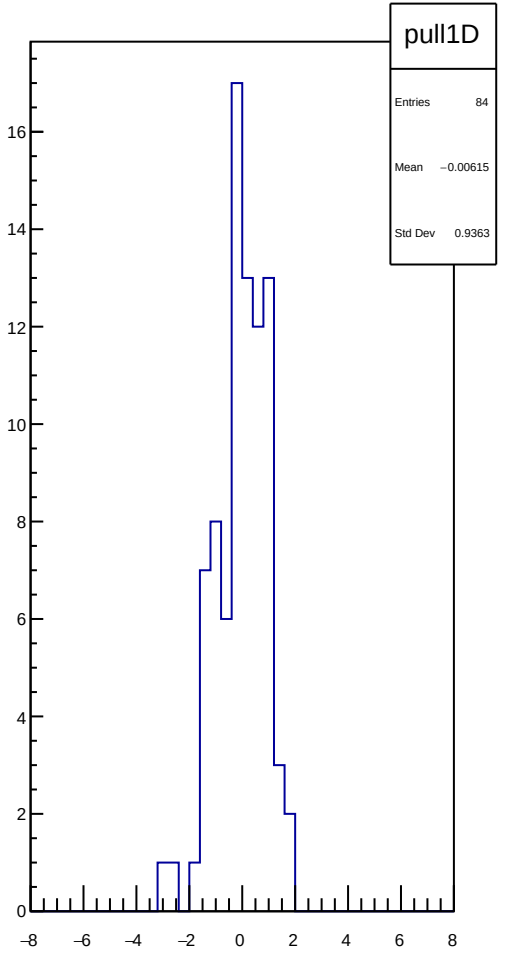

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 165.3 / 83
p0 3130 ± 2.45
3250
3200
3150
3100
3050

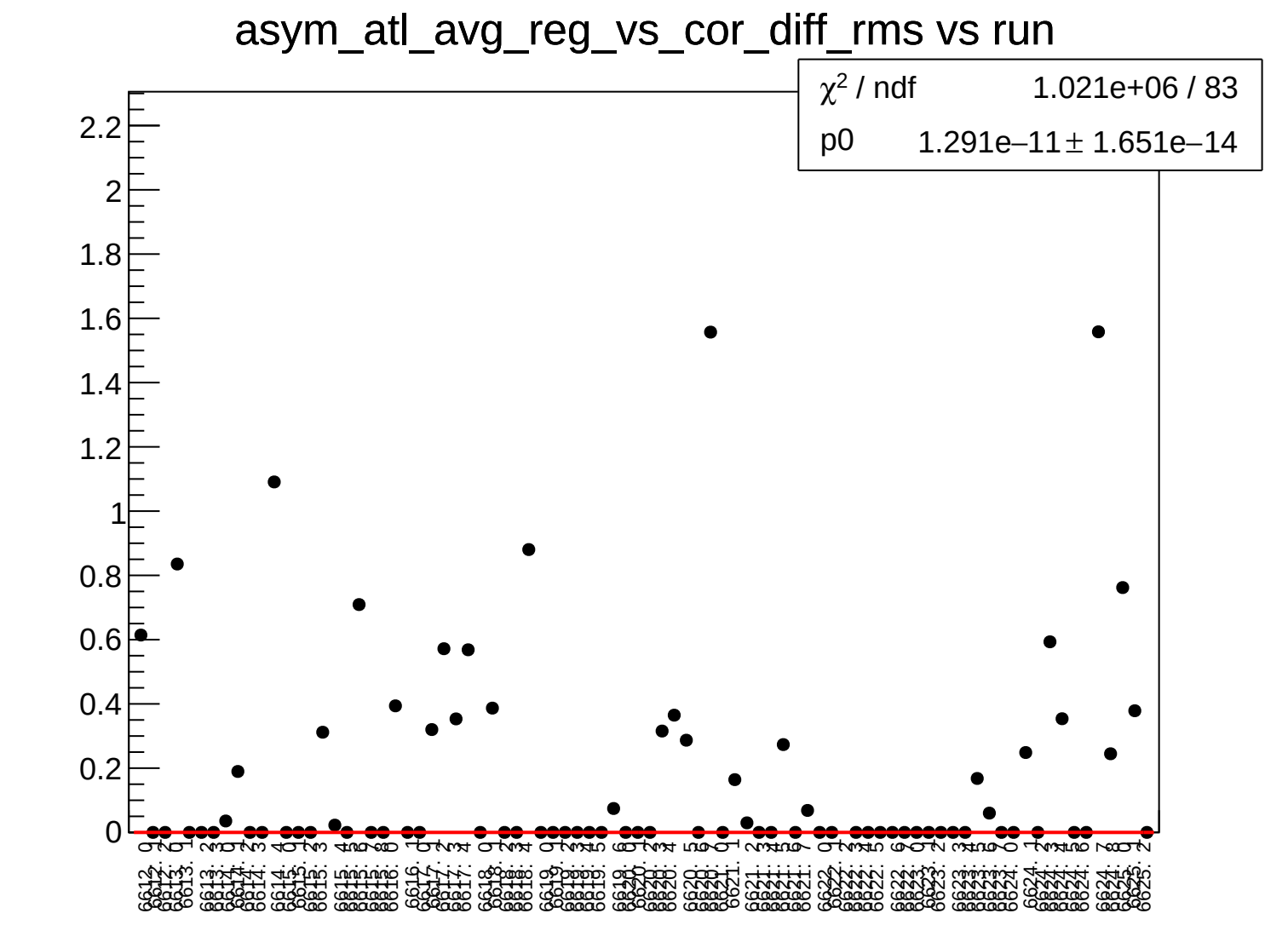

asym_atl_avg_mean vs run
χ² / ndf 78.82 / 83
p0 5912 ± 3464
×10³
100
50
0
−50
−100
pull
Entries 84
Mean 173.7
Std Dev 0
2
1
0
−1
−2

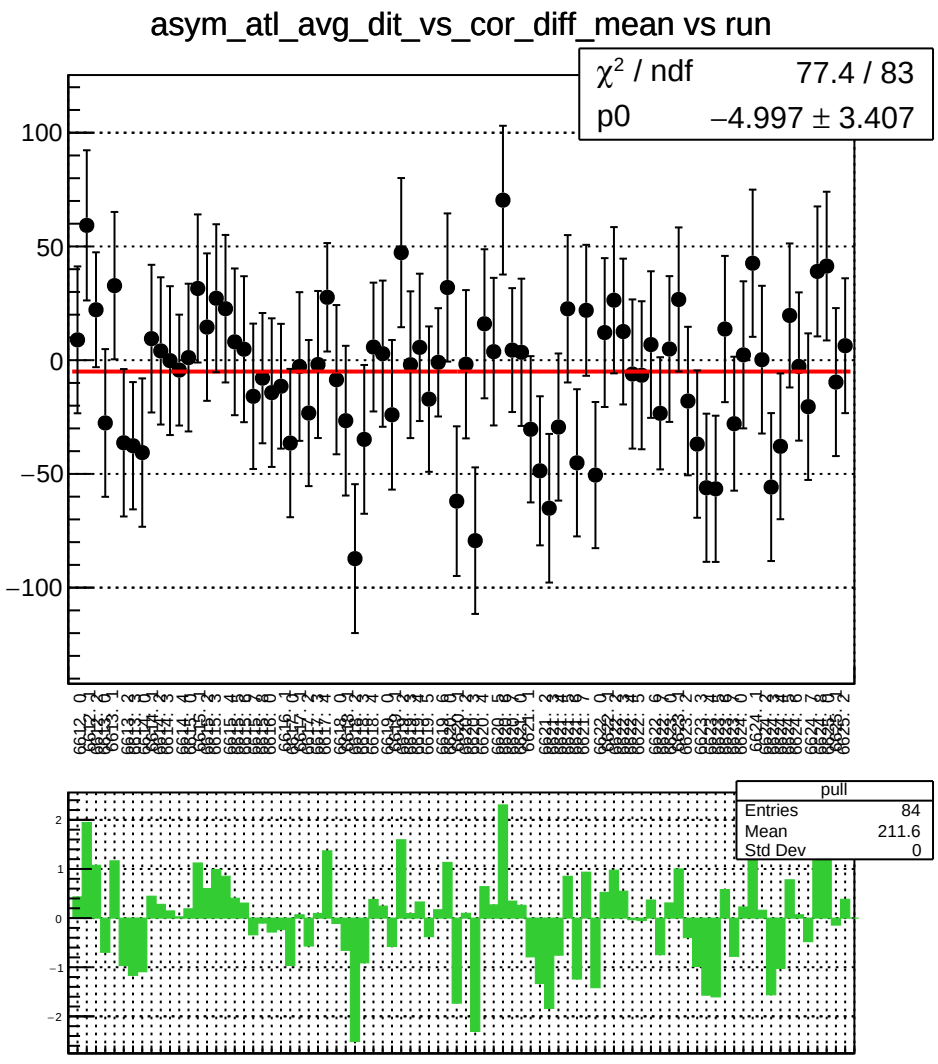

pull1D
Entries 84
Mean 0.008966
Std Dev 0.9686
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

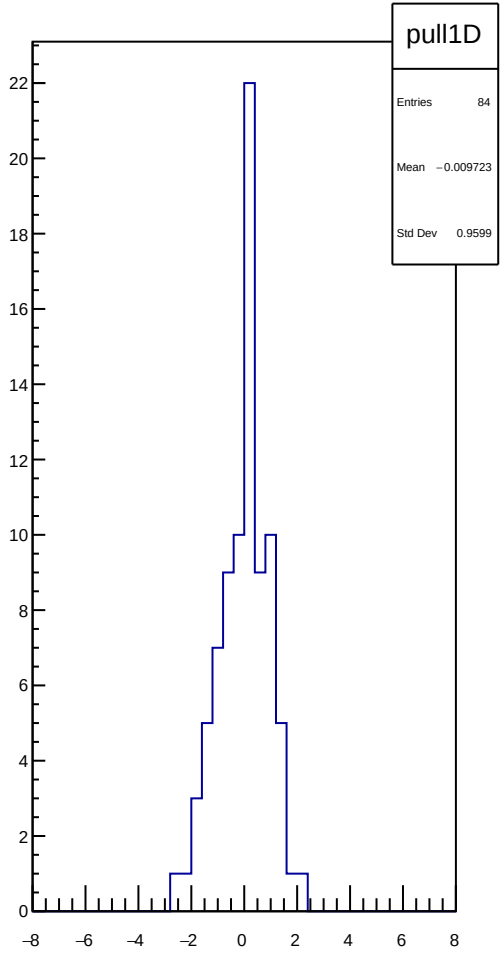

asym_atl_avg_rms vs run
χ² / ndf 165.3 / 83
p0 3130 ± 2.45
3250
3200
3150
3100
3050

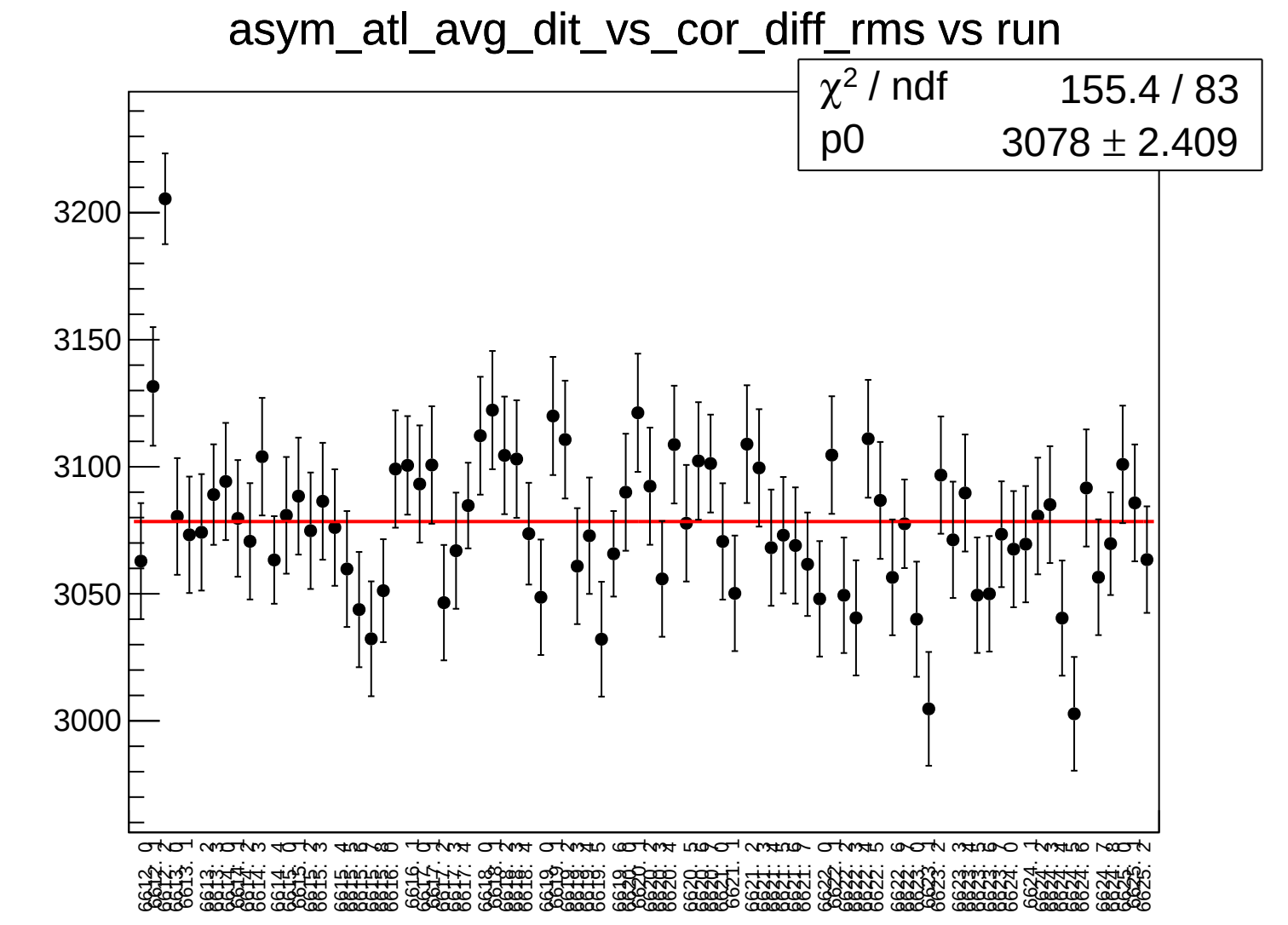

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.64 / 83
p0 3.103e−14 ± 2.334e−14
pull
Entries 84
Mean 461
Std Dev 0

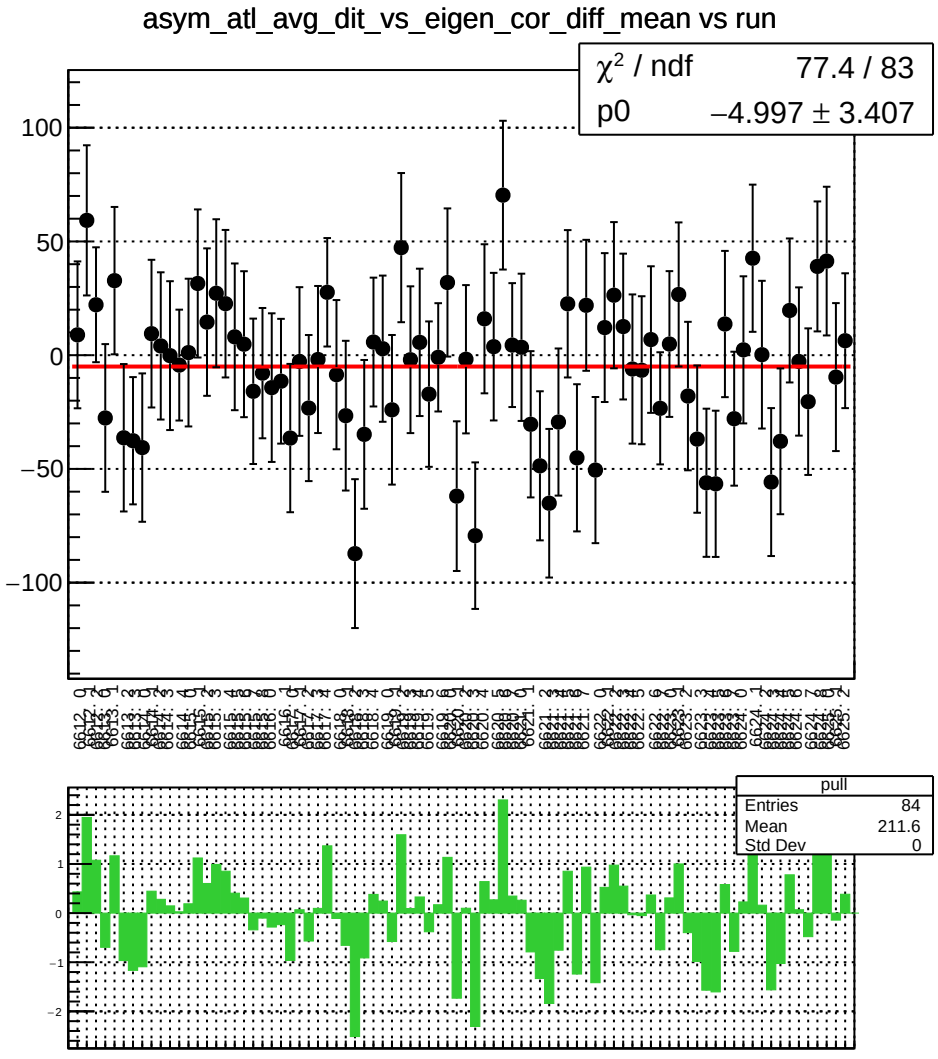

pull1D
Entries 84
Mean −0.00615
Std Dev 0.9363

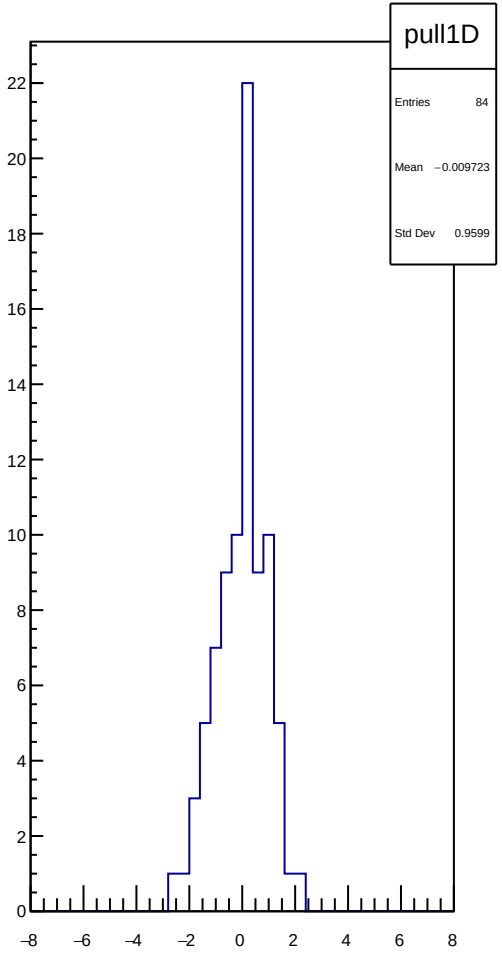

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.021e+06 / 83
p0 1.291e−11 ± 1.651e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

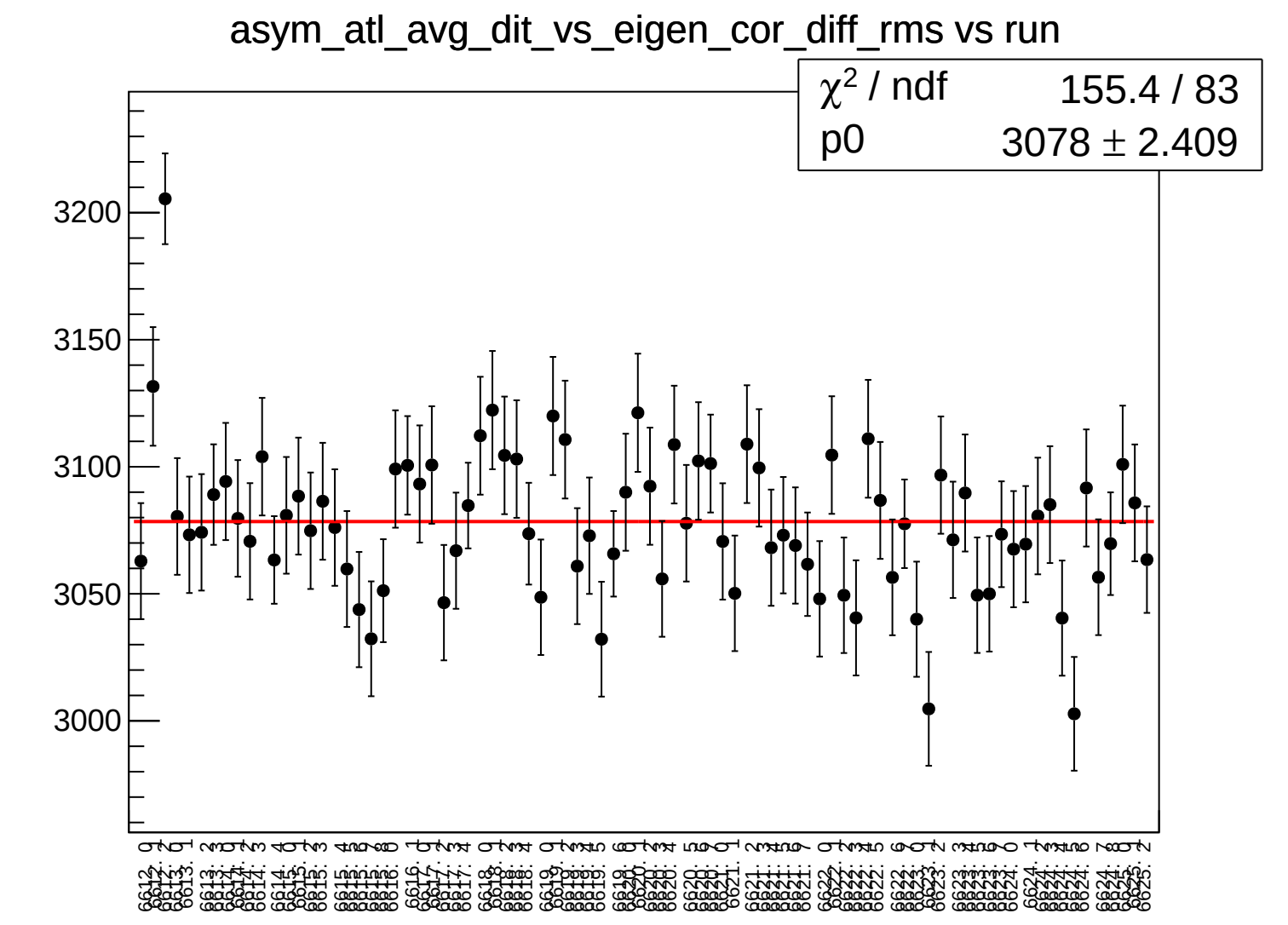

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.4 / 83
p0 −4.997 ± 3.407
100
50
0
−50
−100
pull
Entries 84
Mean 211.6
Std Dev 0
2
1
0
−1
−2

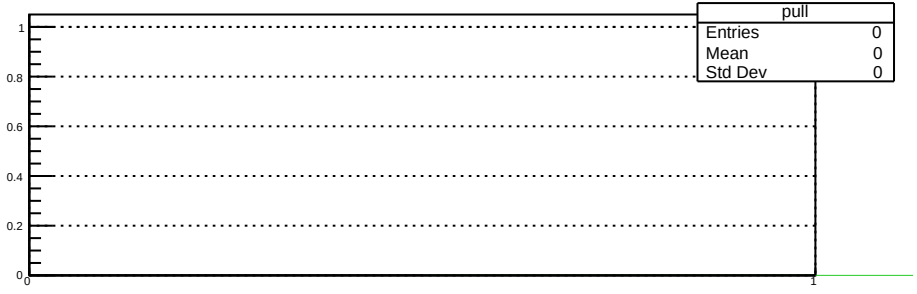

pull1D
Entries 84
Mean −0.009723
Std Dev 0.9599
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

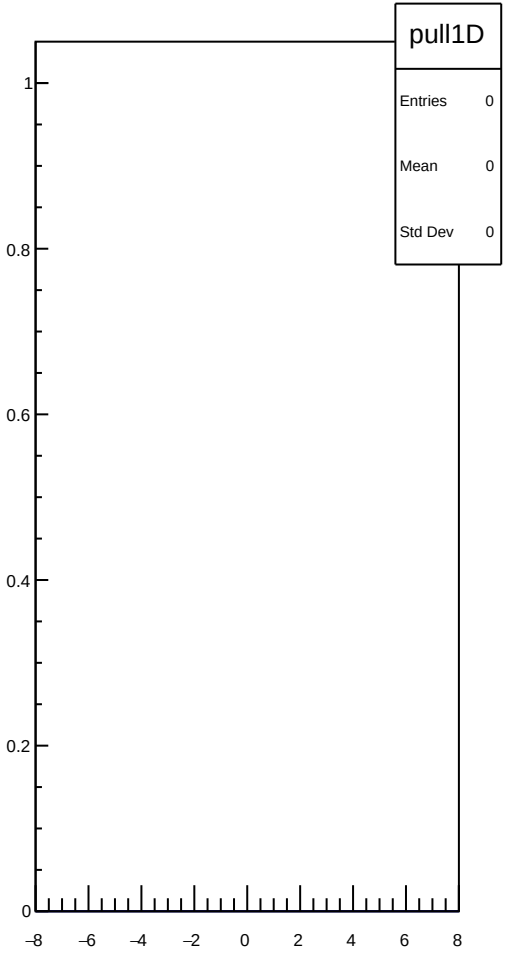

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 155.4 / 83
p0 3078 ± 2.409
3200
3150
3100
3050
3000

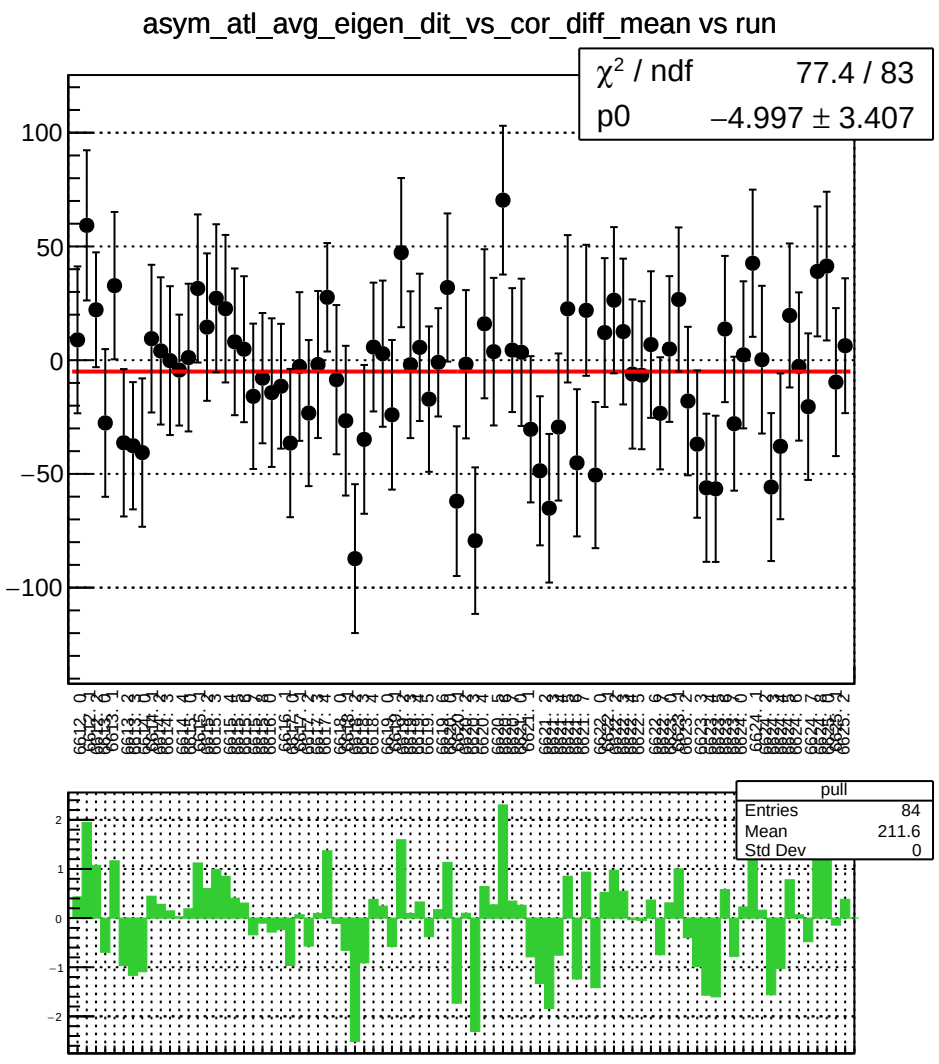

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.4 / 83
p0 −4.997 ± 3.407
100
50
0
−50
−100
pull
Entries 84
Mean 211.6
Std Dev 0
2
1
0
−1
−2

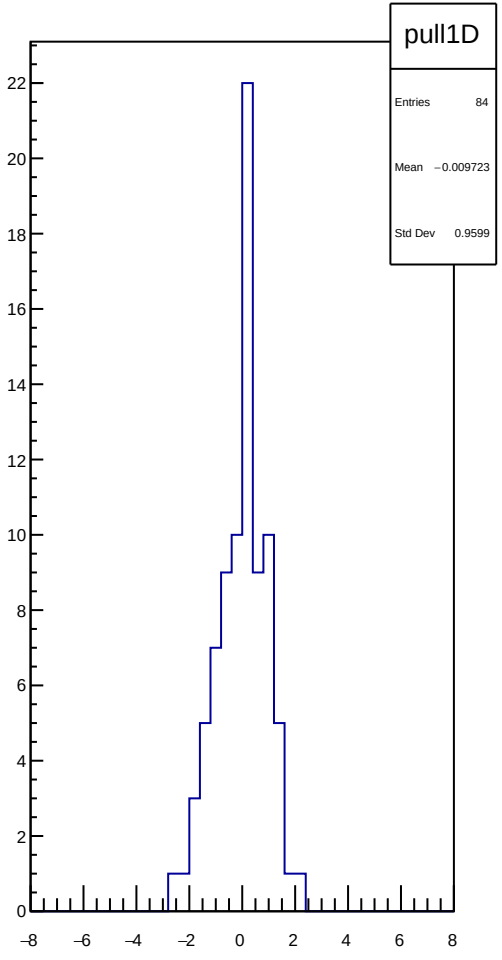

pull1D
Entries 84
Mean −0.009723
Std Dev 0.9599
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

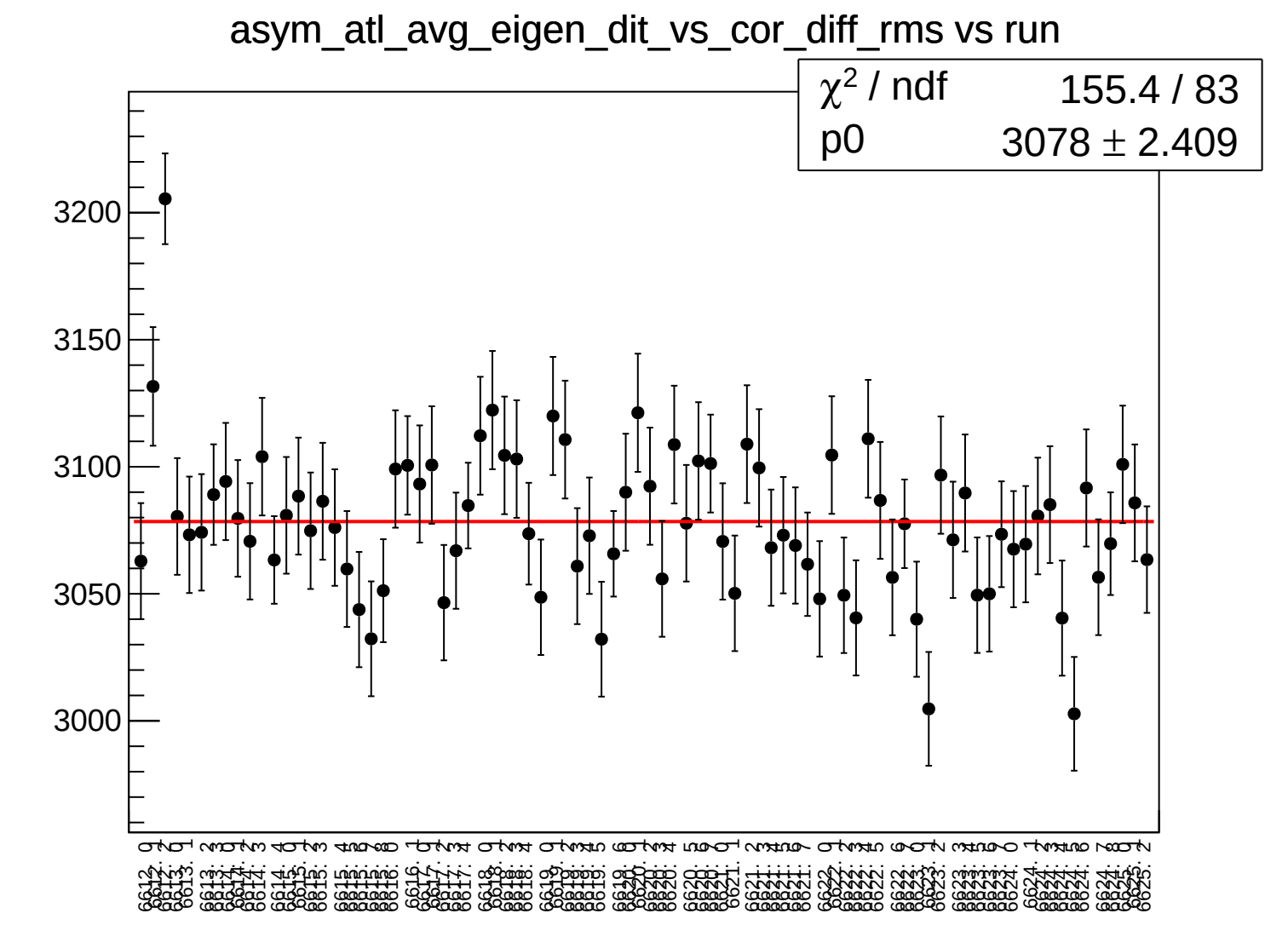

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 155.4 / 83
p0 3078 ± 2.409
3200
3150
3100
3050
3000

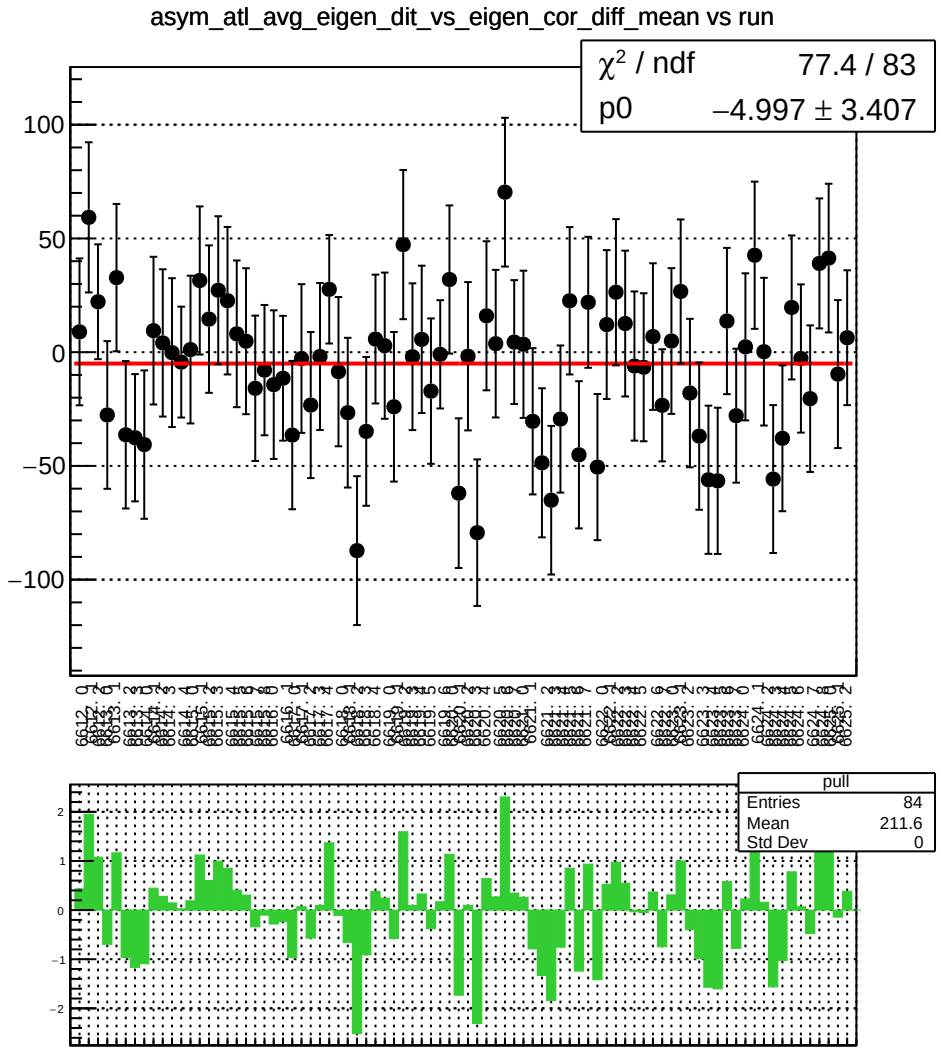

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

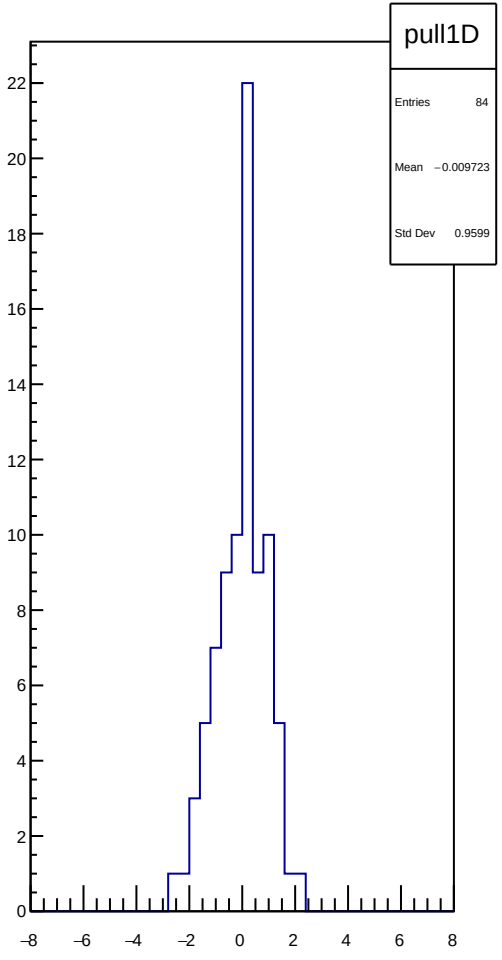

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

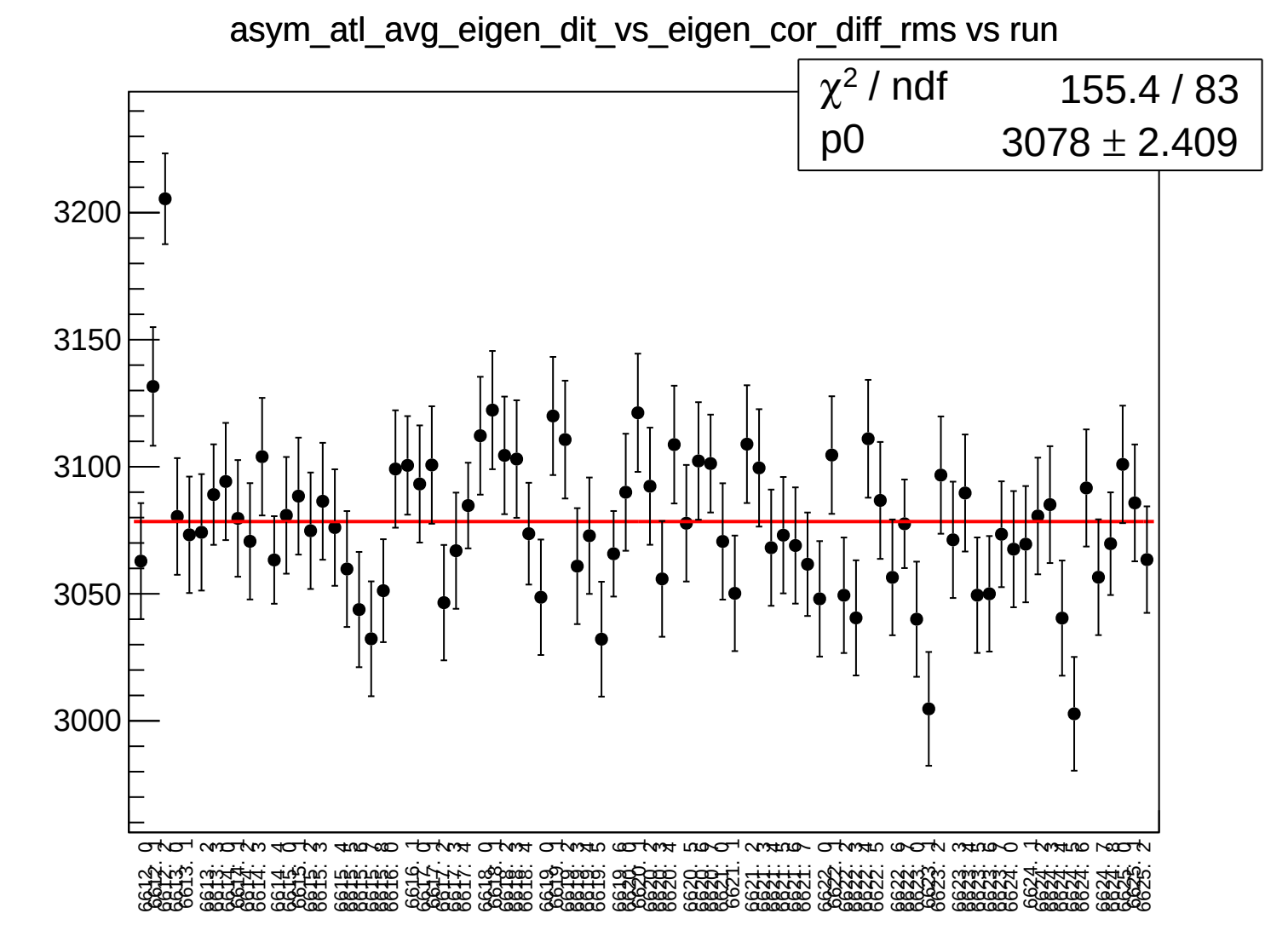

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.4 / 83
p0 −4.997 ± 3.407
100
50
0
−50
−100
pull
Entries 84
Mean 211.6
Std Dev 0
2
1
0
−1
−2

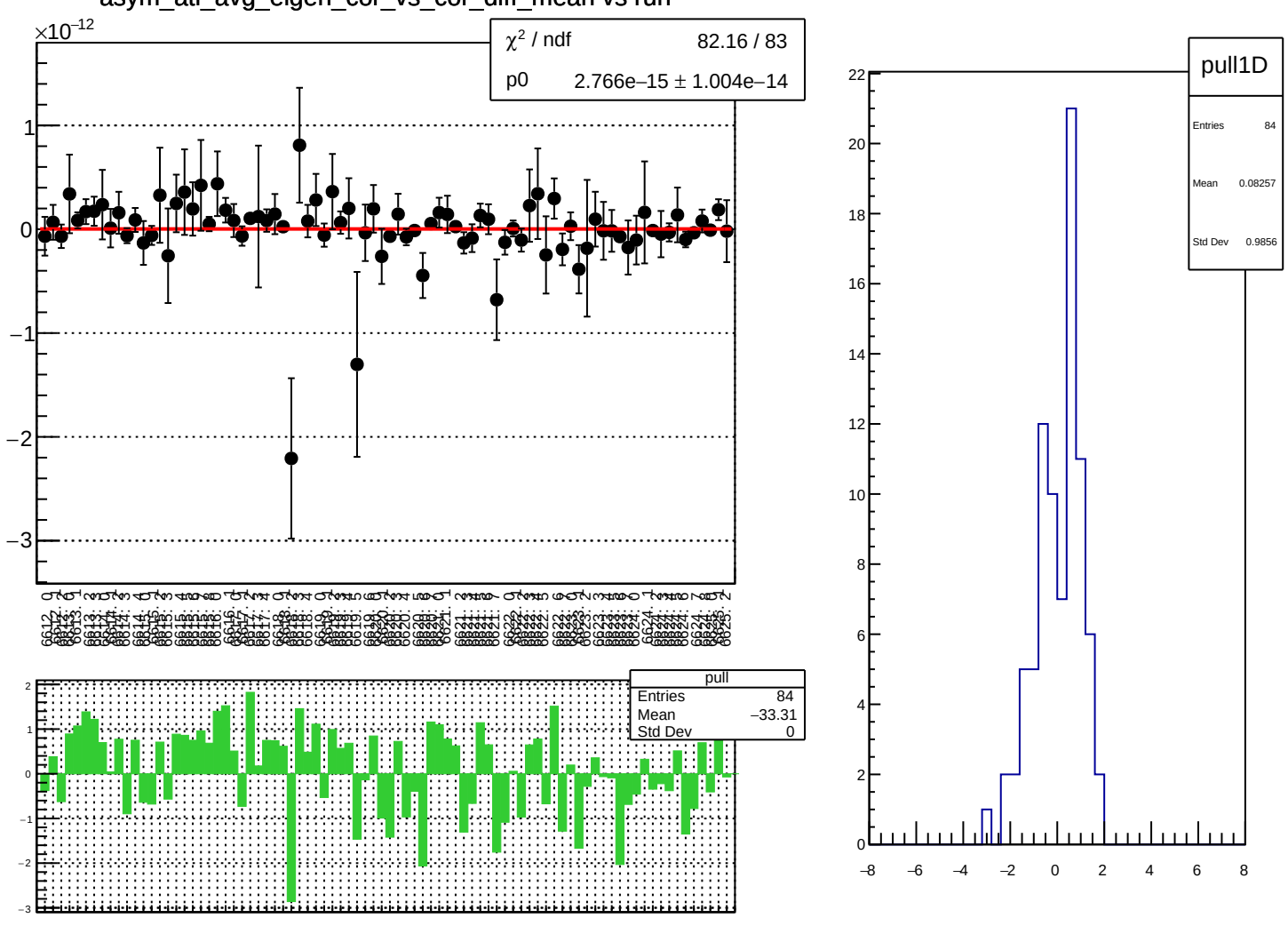

pull1D
Entries 84
Mean −0.009723
Std Dev 0.9599
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

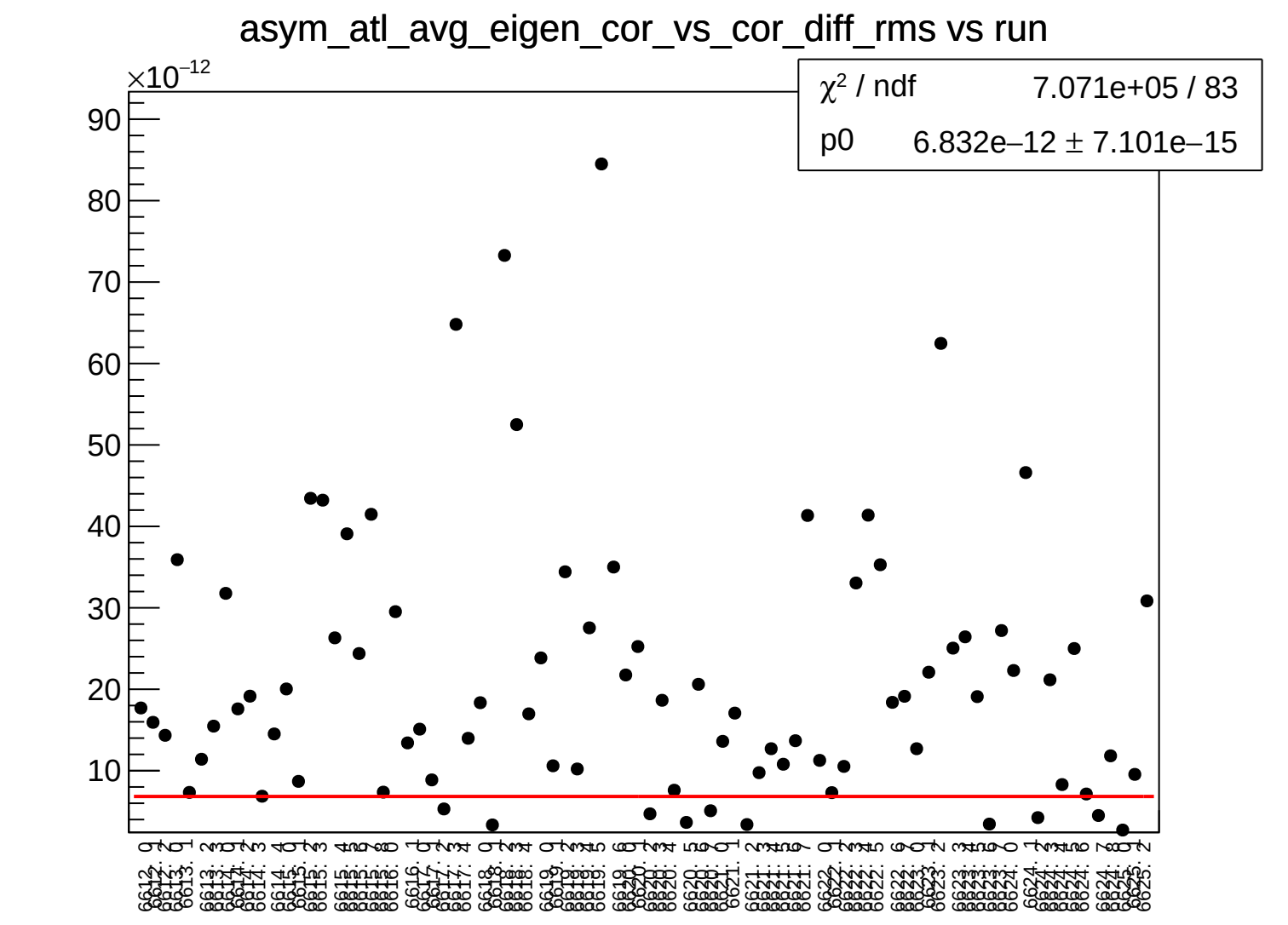

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 155.4 / 83
p0 3078 ± 2.409
3200
3150
3100
3050
3000

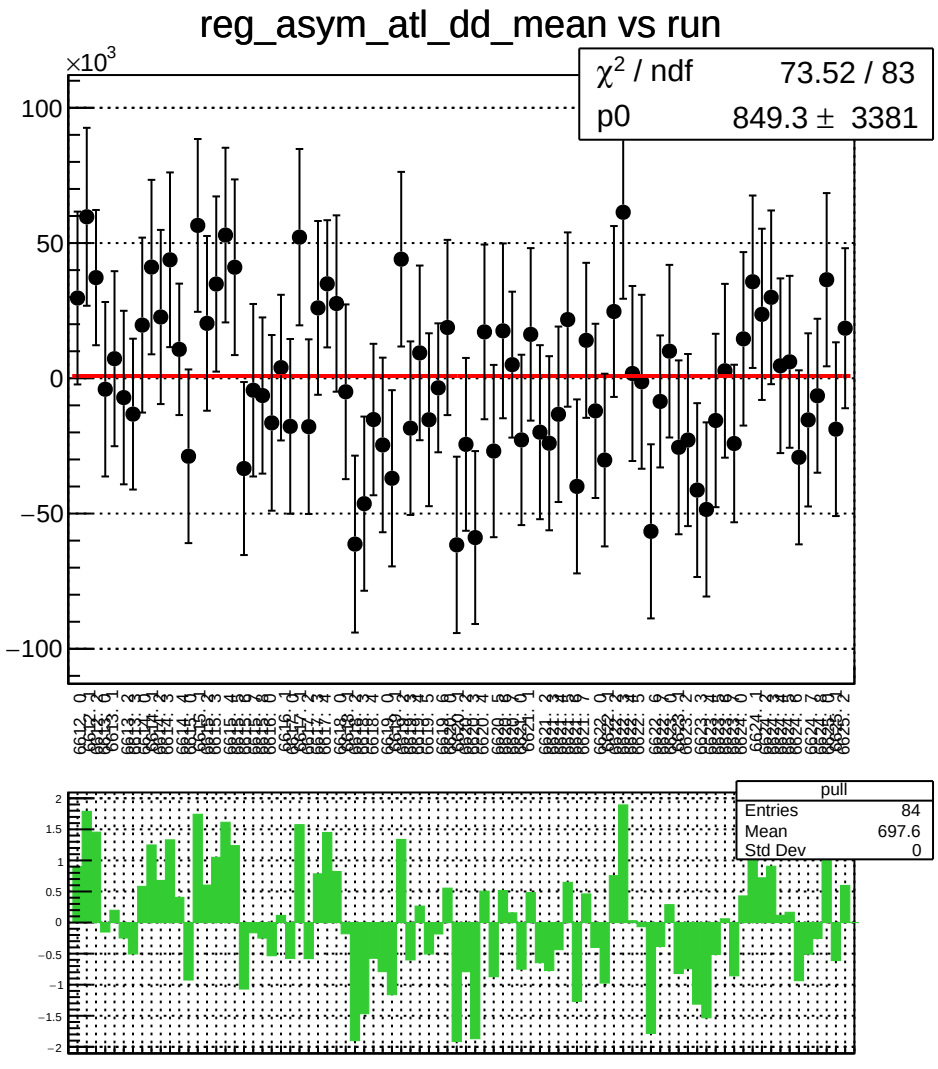

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.4 / 83
p0 −4.997 ± 3.407
100
50
0
−50
−100
pull
Entries 84
Mean 211.6
Std Dev 0
2
1
0
−1
−2

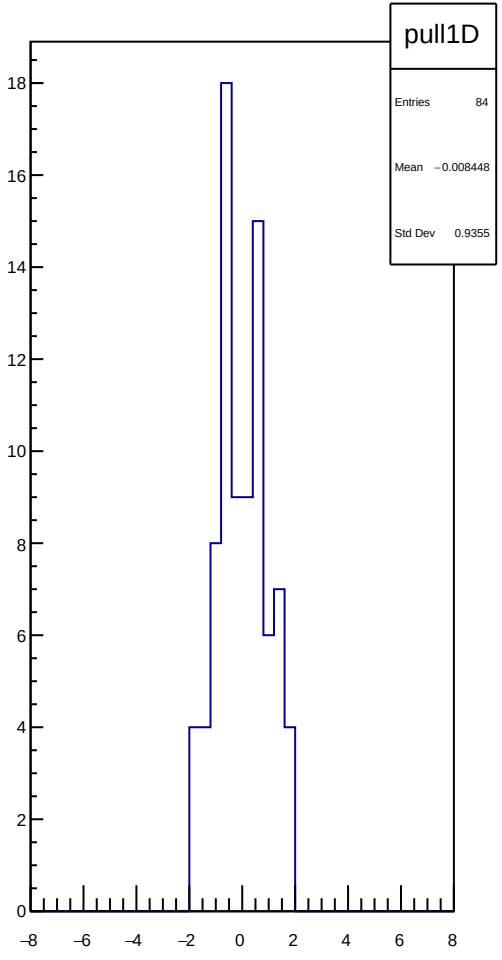

pull1D
Entries 84
Mean −0.009723
Std Dev 0.9599
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

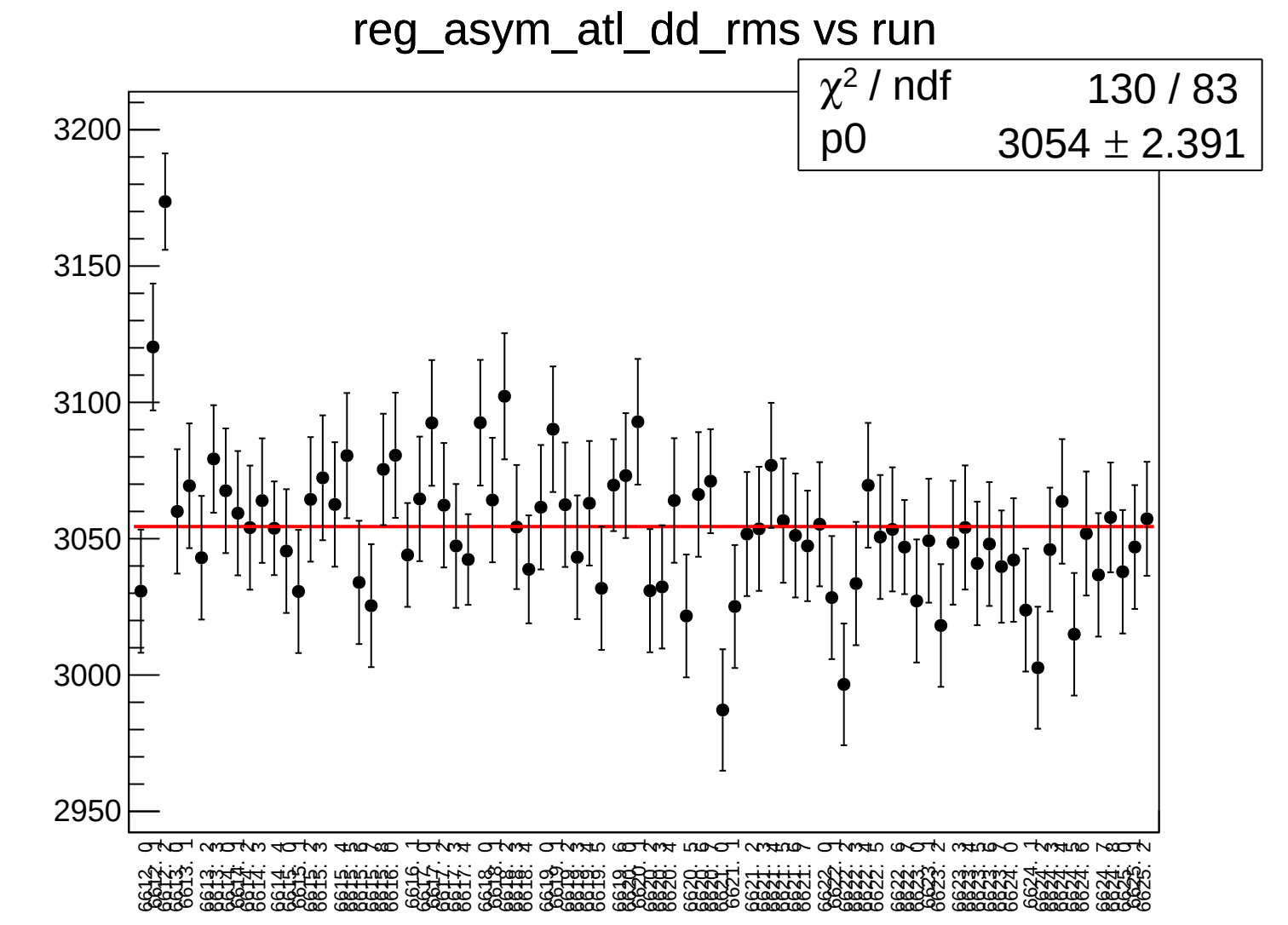

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 155.4 / 83
p0 3078 ± 2.409
3200
3150
3100
3050
3000

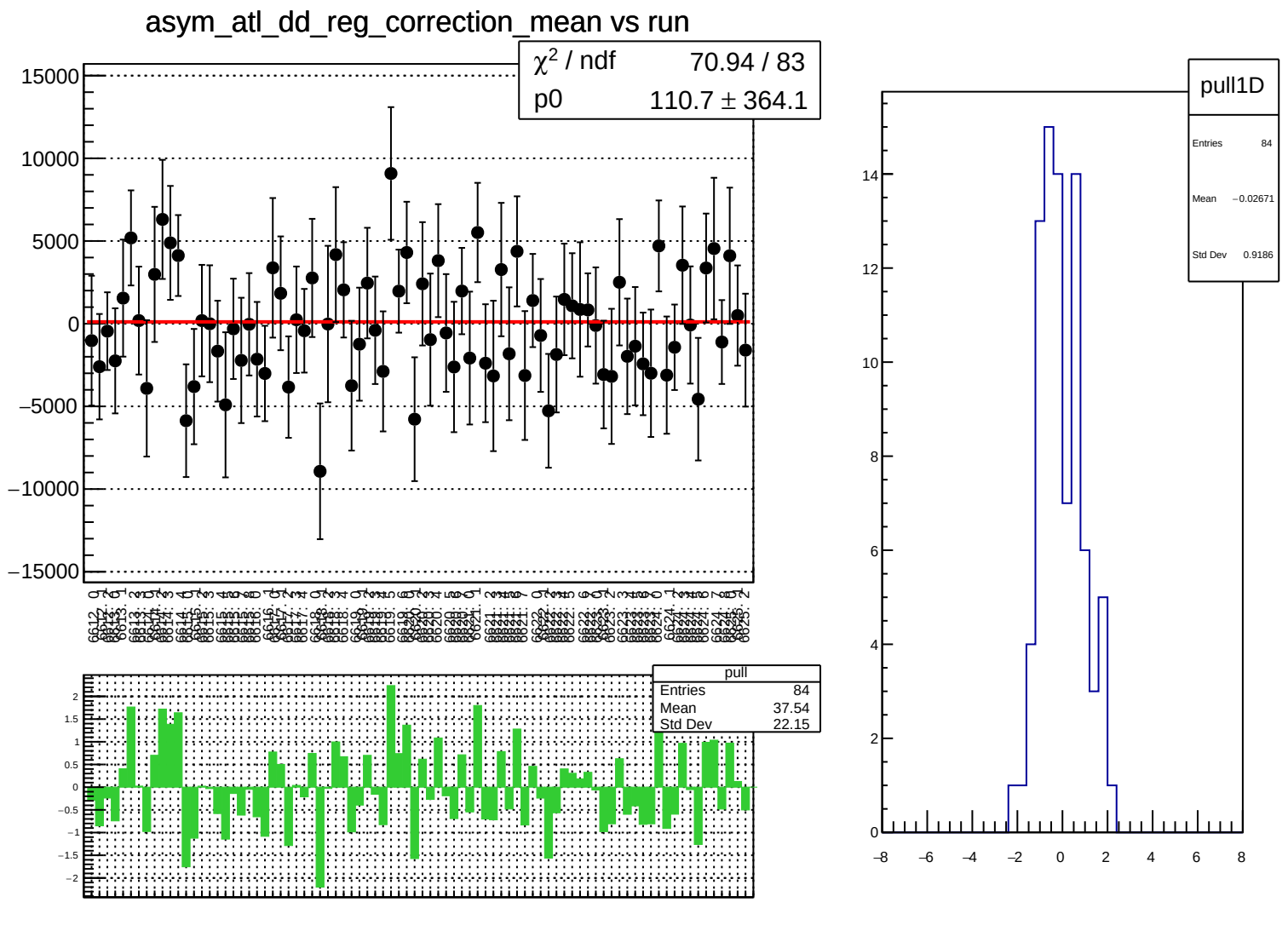

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.16 / 83
p0 2.766e−15 ± 1.004e−14
pull
Entries 84
Mean −33.31
Std Dev 0
pull1D
Entries 84
Mean 0.08257
Std Dev 0.9856

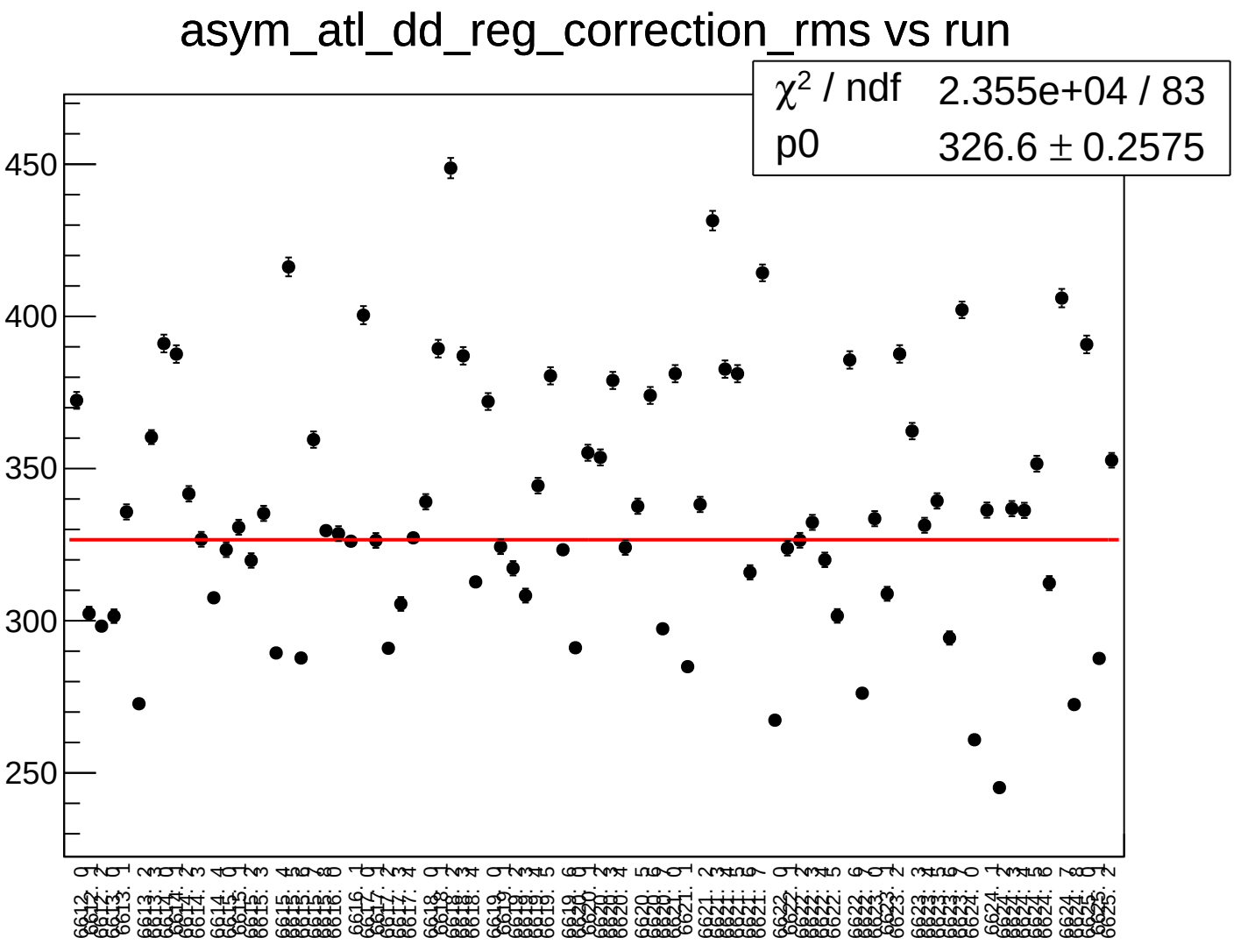

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.071e+05 / 83
p0 6.832e−12 ± 7.101e−15
90
80
70
60
50
40
30
20
10

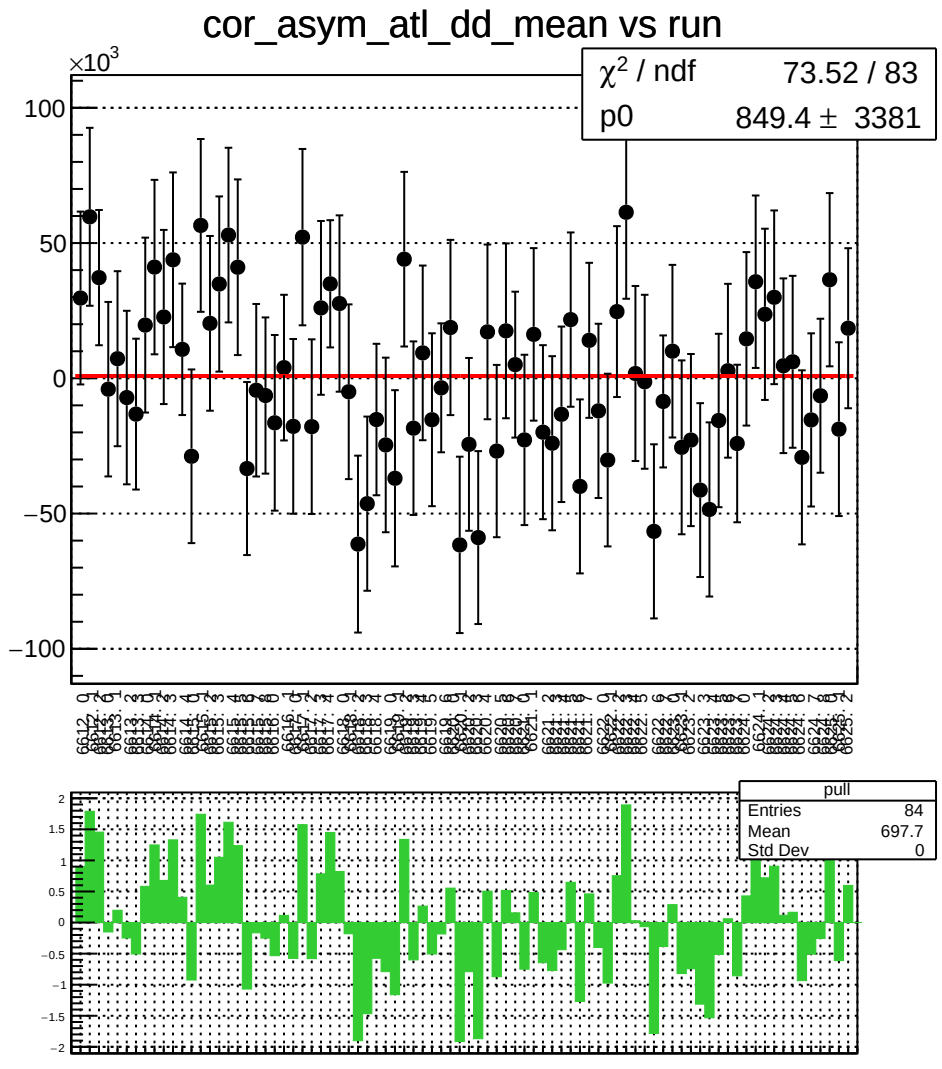

reg_asym_atl_dd_mean vs run
×10^3
χ² / ndf 73.52 / 83
p0 849.3 ± 3381
pull
Entries 84
Mean 697.6
Std Dev 0

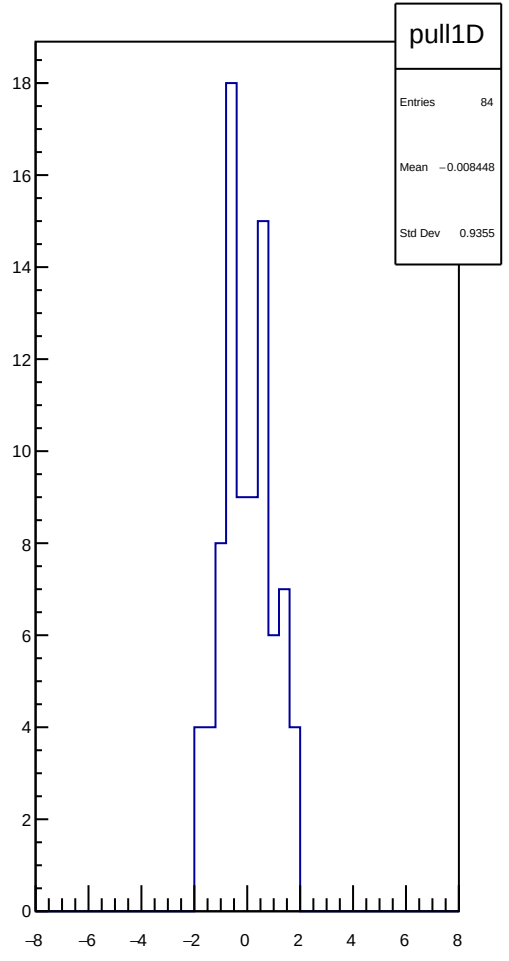

pull1D
Entries 84
Mean −0.008448
Std Dev 0.9355

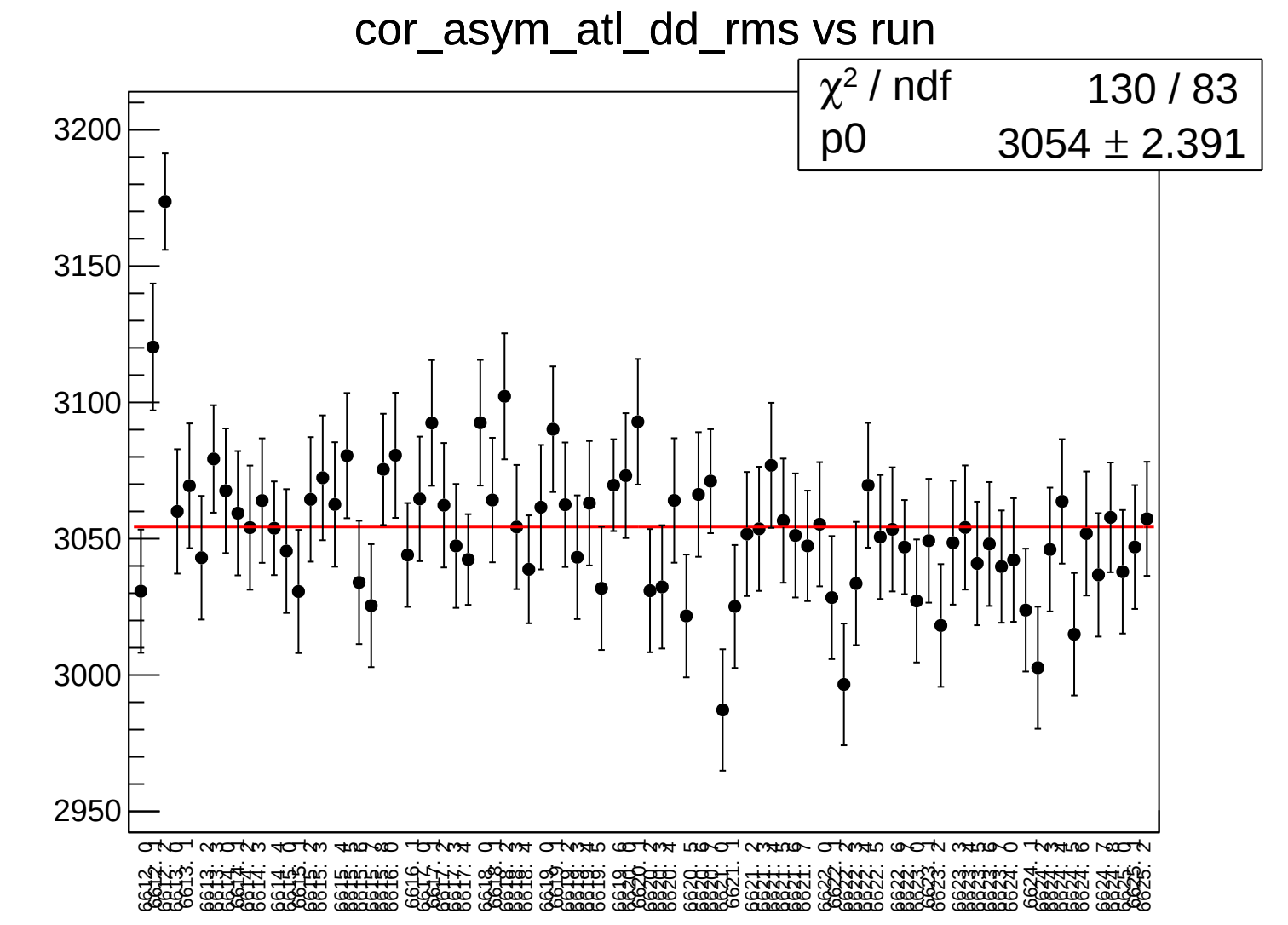

reg_asym_atl_dd_rms vs run
χ² / ndf 130 / 83
p0 3054 ± 2.391
3200
3150
3100
3050
3000
2950

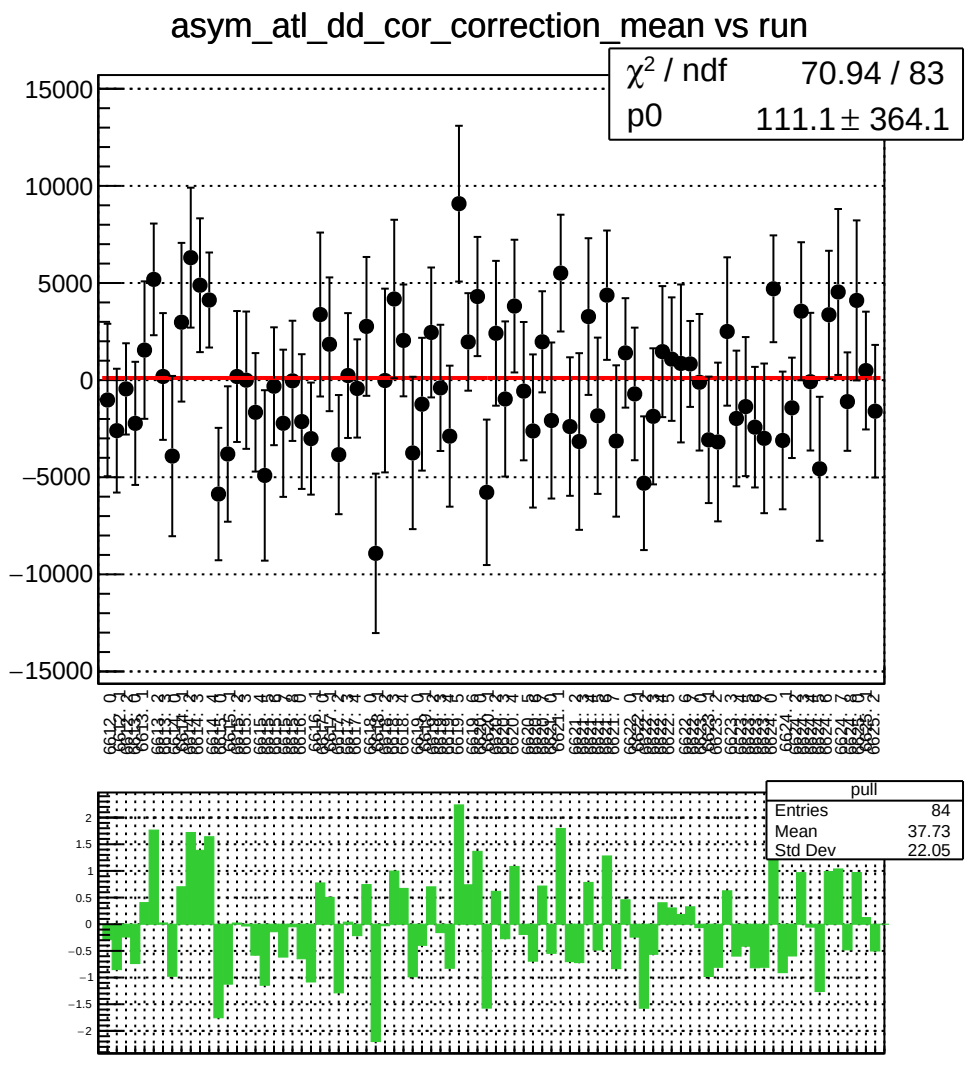

asym_atl_dd_reg_correction_mean vs run
χ² / ndf 70.94 / 83
p0 110.7 ± 364.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 37.54
Std Dev 22.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.02671
Std Dev 0.9186
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

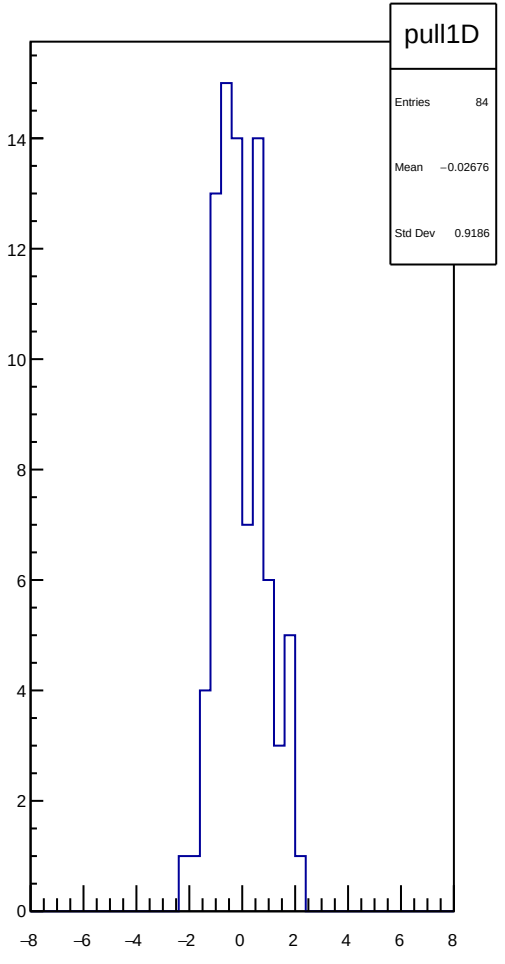

asym_atl_dd_reg_correction_rms vs run
χ^2 / ndf 2.355e+04 / 83
p0 326.6 ± 0.2575
450
400
350
300
250

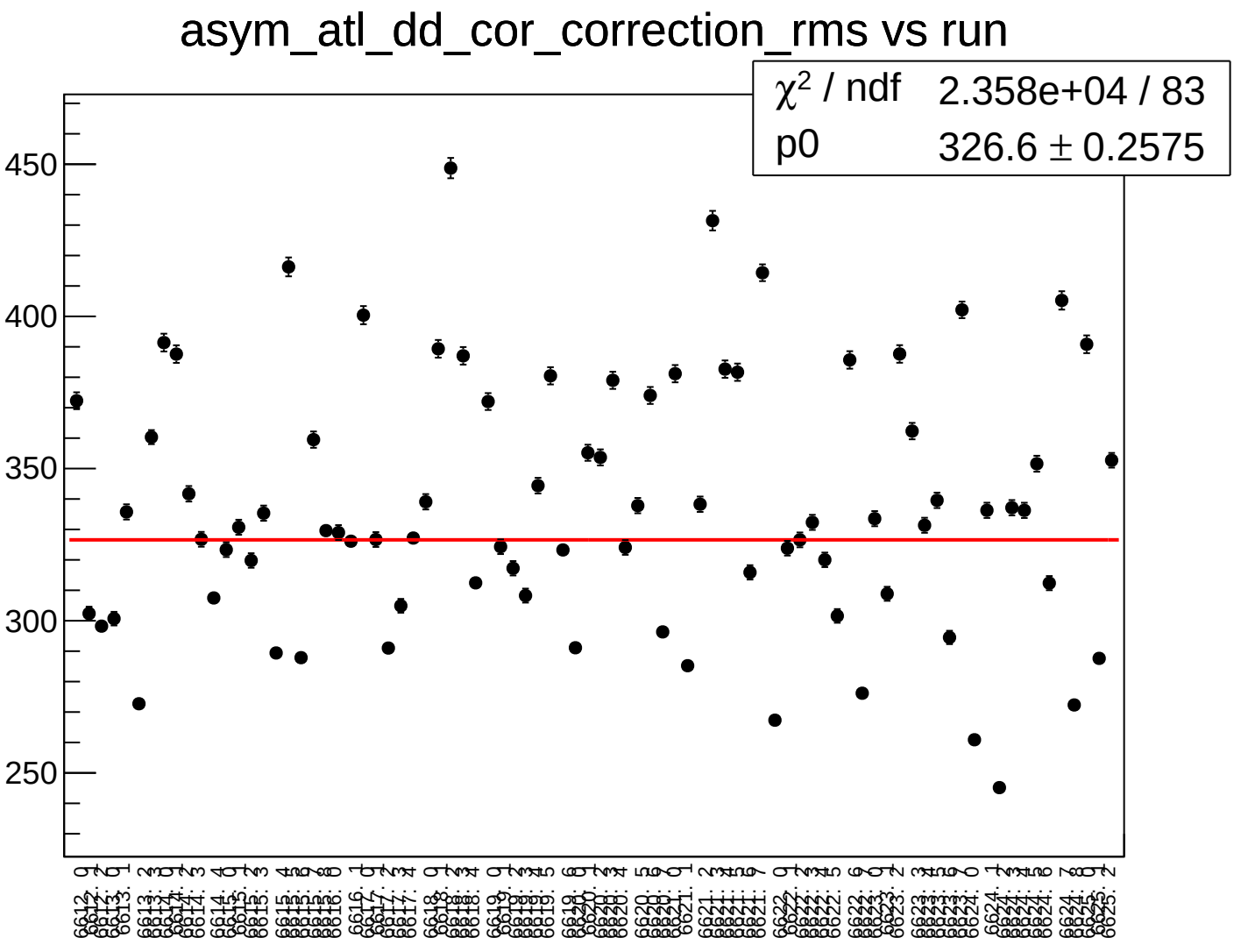

cor_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 73.52 / 83
p0 849.4 ± 3381
100
50
0
−50
−100
pull
Entries 84
Mean 697.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

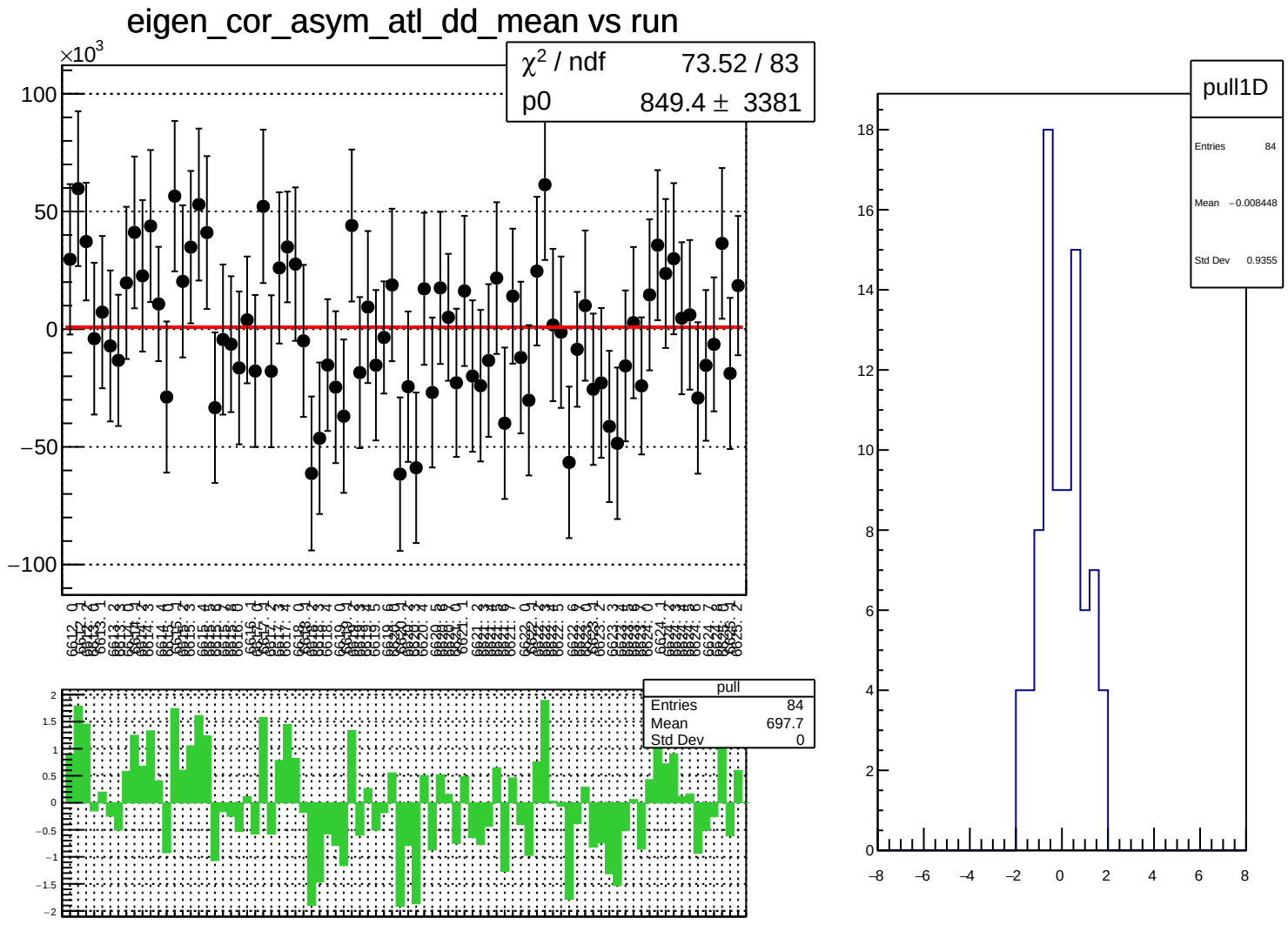

pull1D
Entries 84
Mean −0.008448
Std Dev 0.9355
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

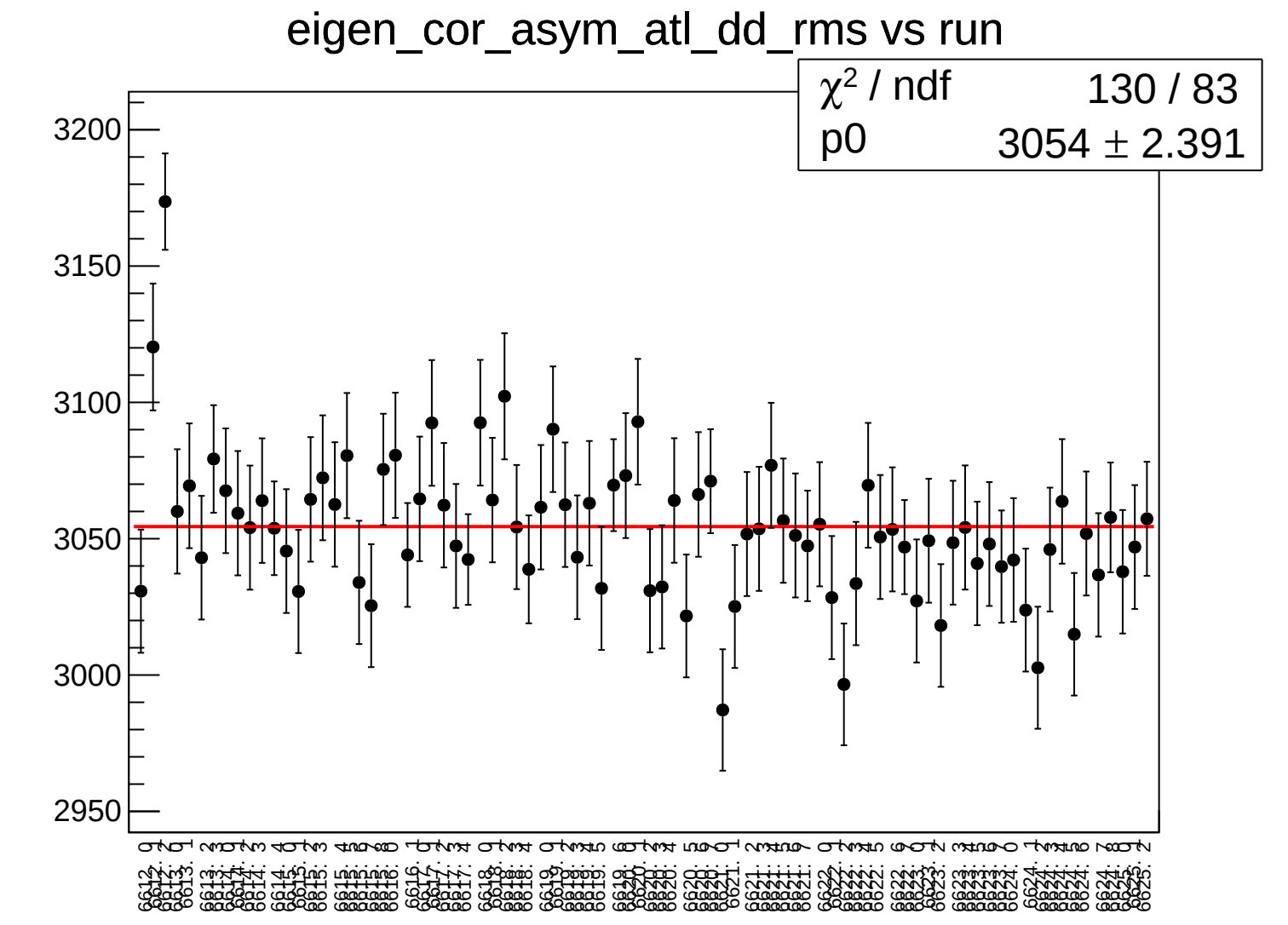

cor_asym_atl_dd_rms vs run
χ² / ndf 130 / 83
p0 3054 ± 2.391
3200
3150
3100
3050
3000
2950

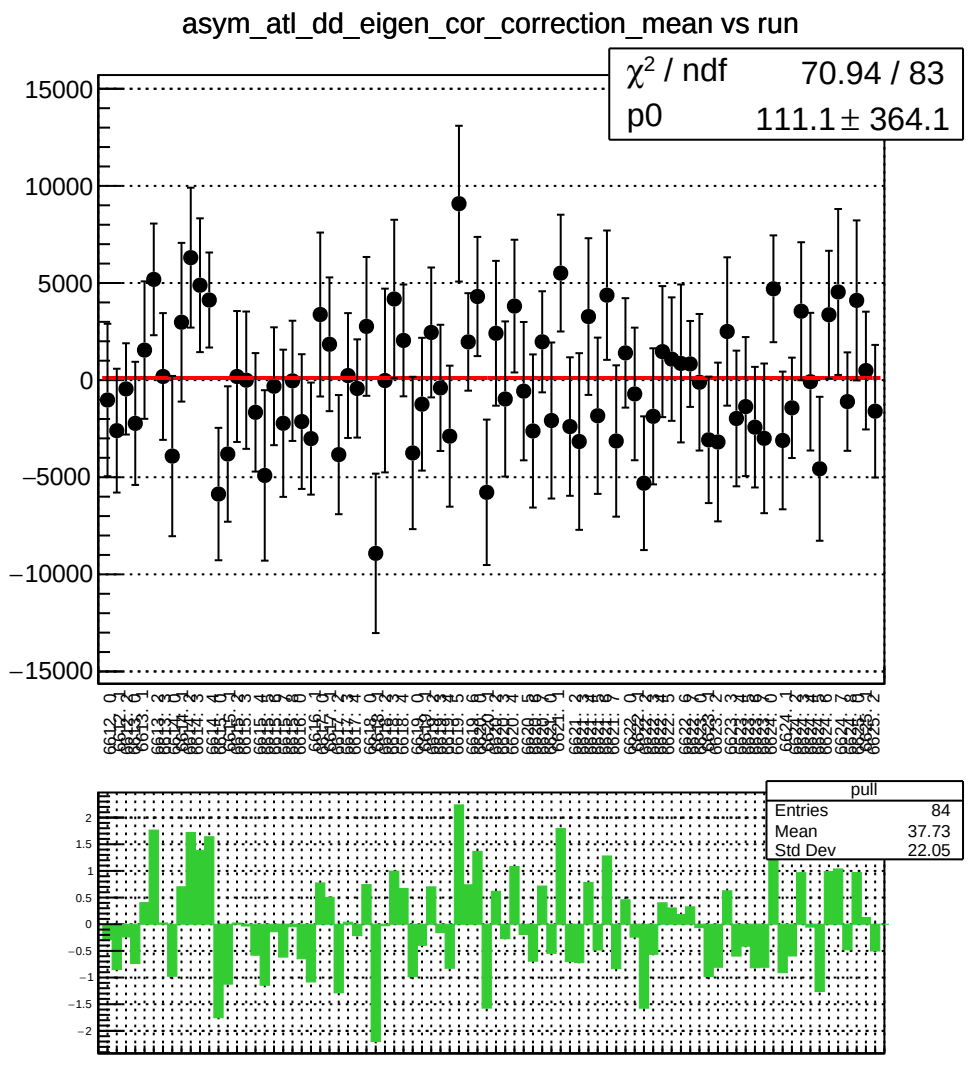

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 70.94 / 83
p0 111.1 ± 364.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 37.73
Std Dev 22.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

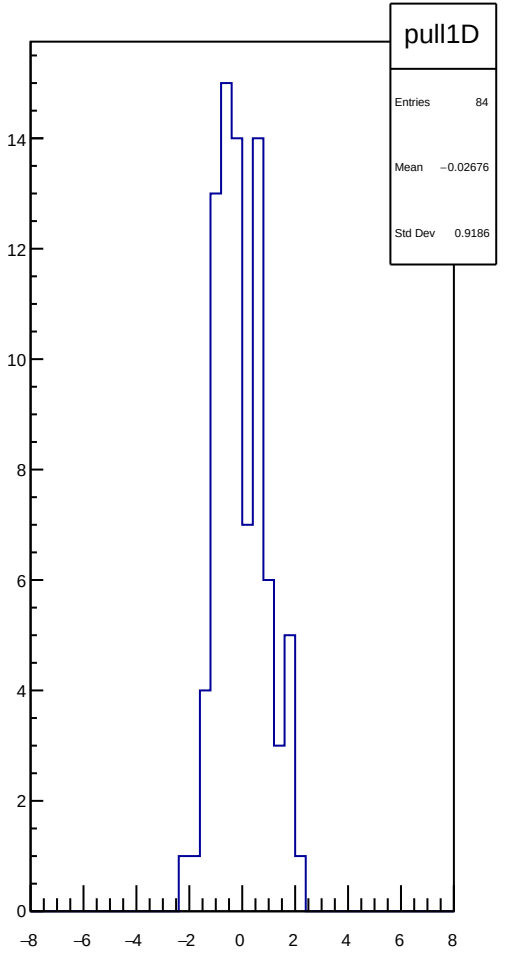

pull1D
Entries 84
Mean −0.02676
Std Dev 0.9186
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

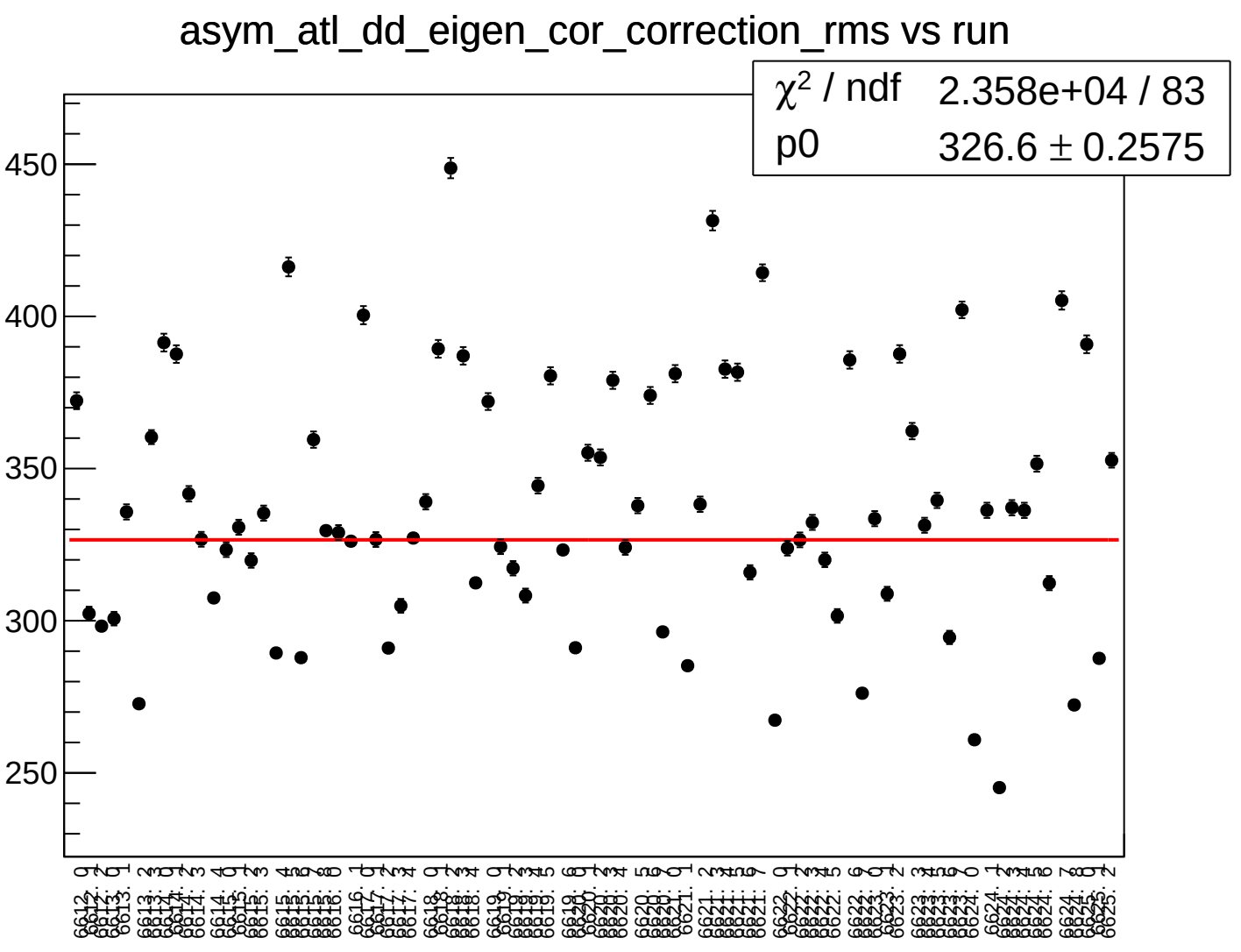

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 2.358e+04 / 83
p0 326.6 ± 0.2575
450
400
350
300
250

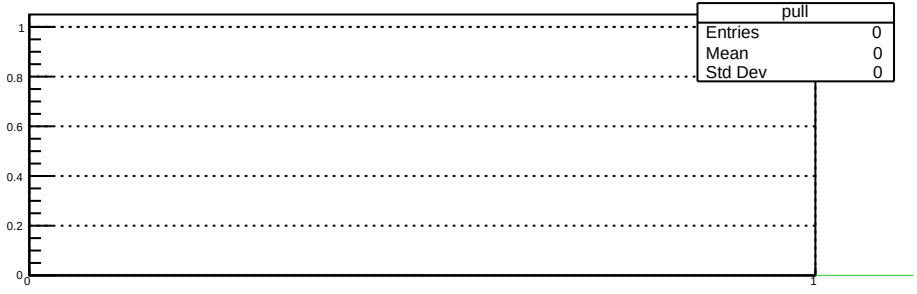

eigen_cor_asym_atl_dd_mean vs run
×10^3
χ² / ndf 73.52 / 83
p0 849.4 ± 3381
100
50
0
−50
−100
pull
Entries 84
Mean 697.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.008448
Std Dev 0.9355
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

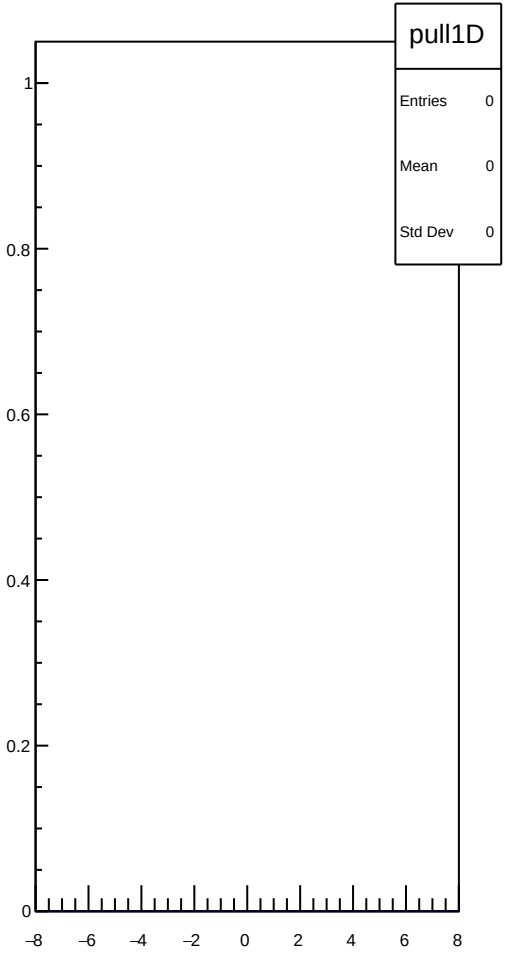

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 130 / 83
p0 3054 ± 2.391
3200
3150
3100
3050
3000
2950

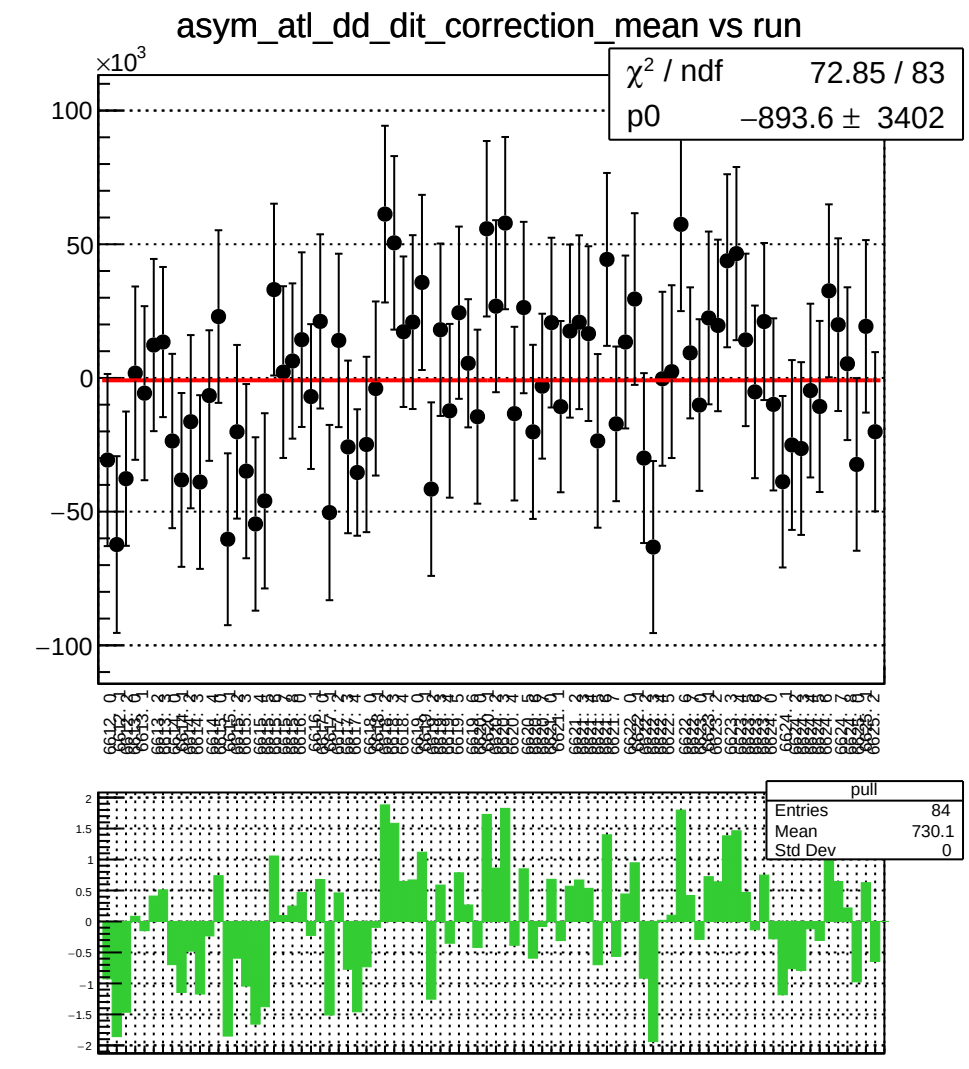

asym_atl_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.94 / 83
p0 111.1 ± 364.1
pull
Entries 84
Mean 37.73
Std Dev 22.05

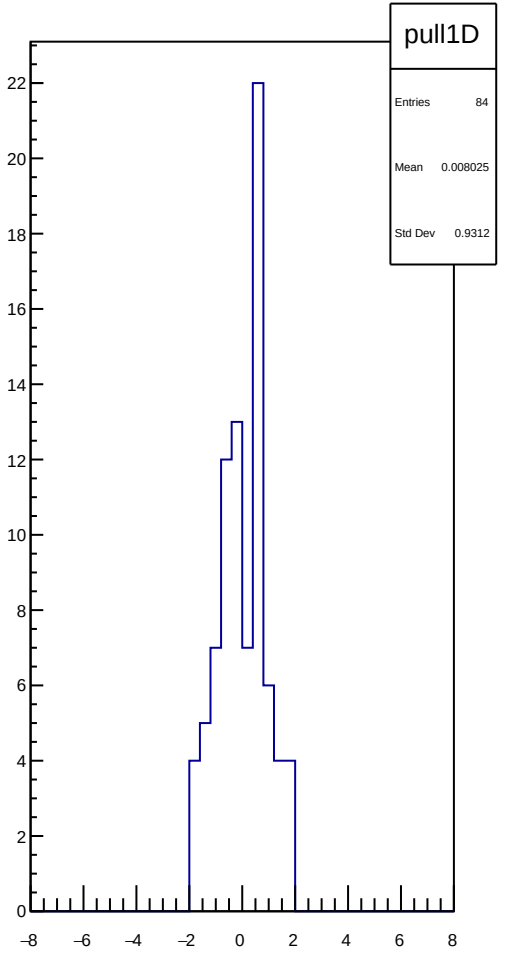

pull1D
Entries 84
Mean −0.02676
Std Dev 0.9186

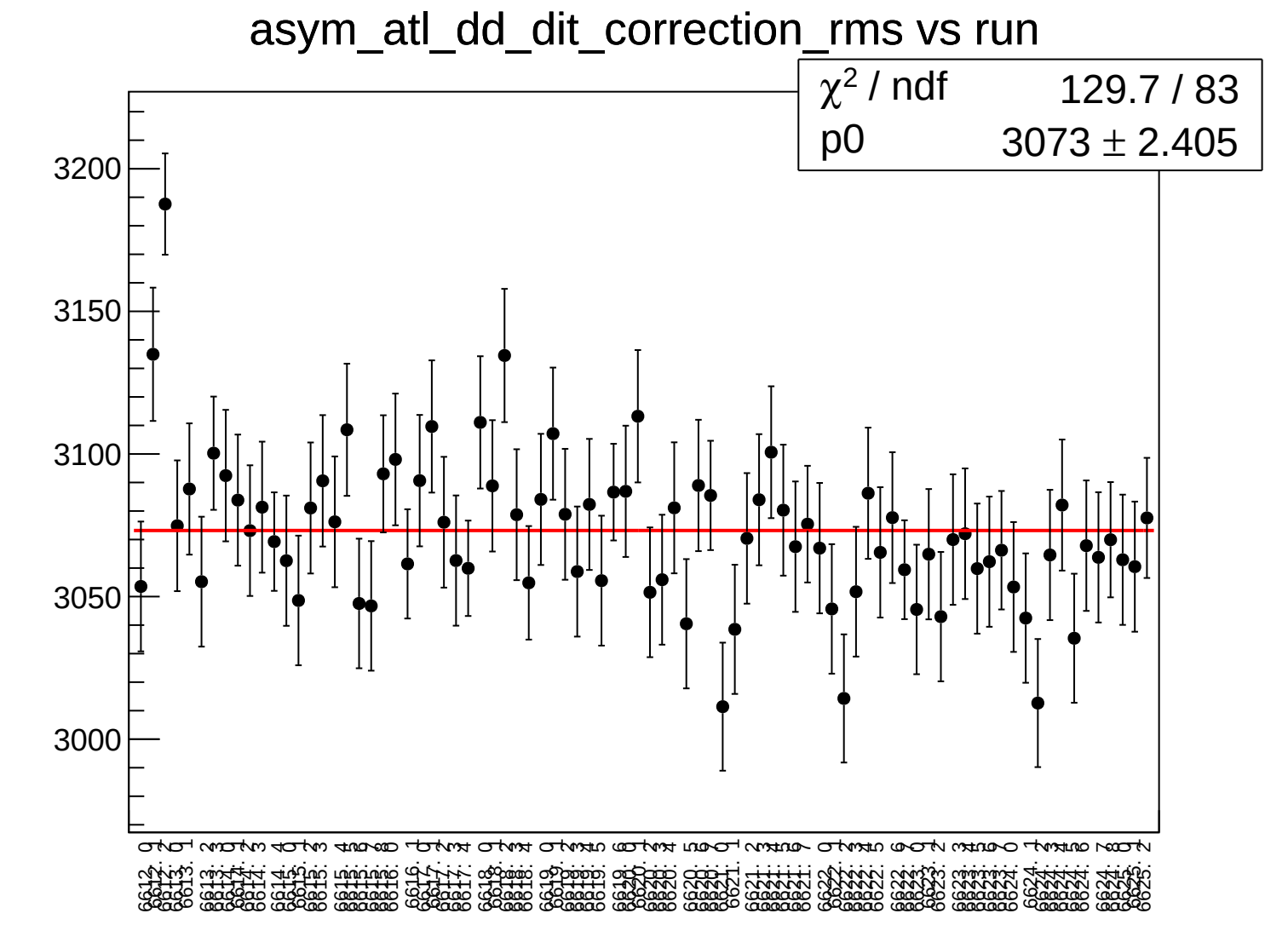

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.358e+04 / 83
p0 326.6 ± 0.2575
450
400
350
300
250

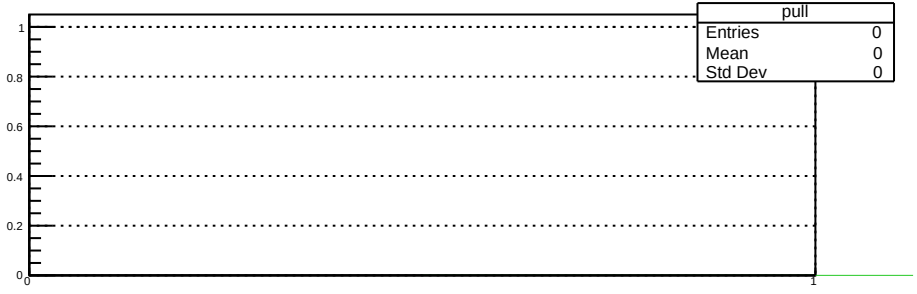

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

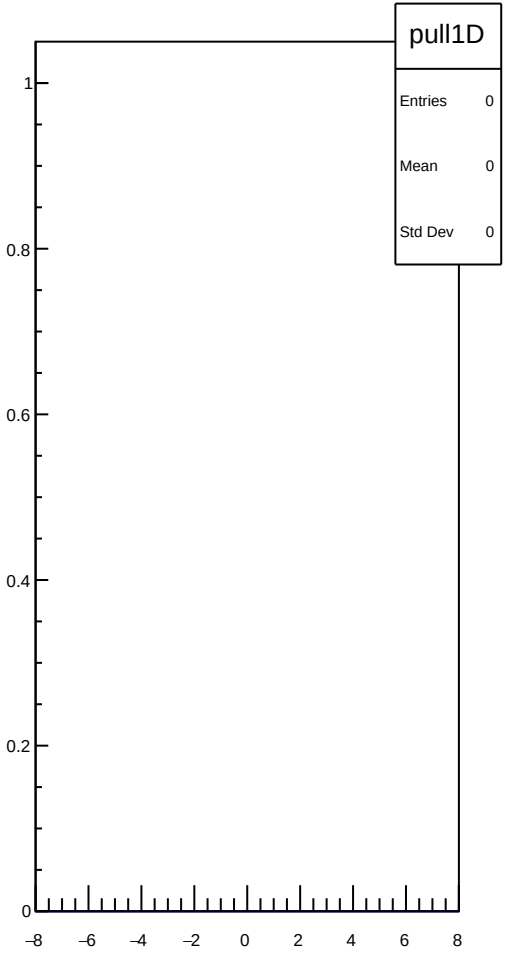

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

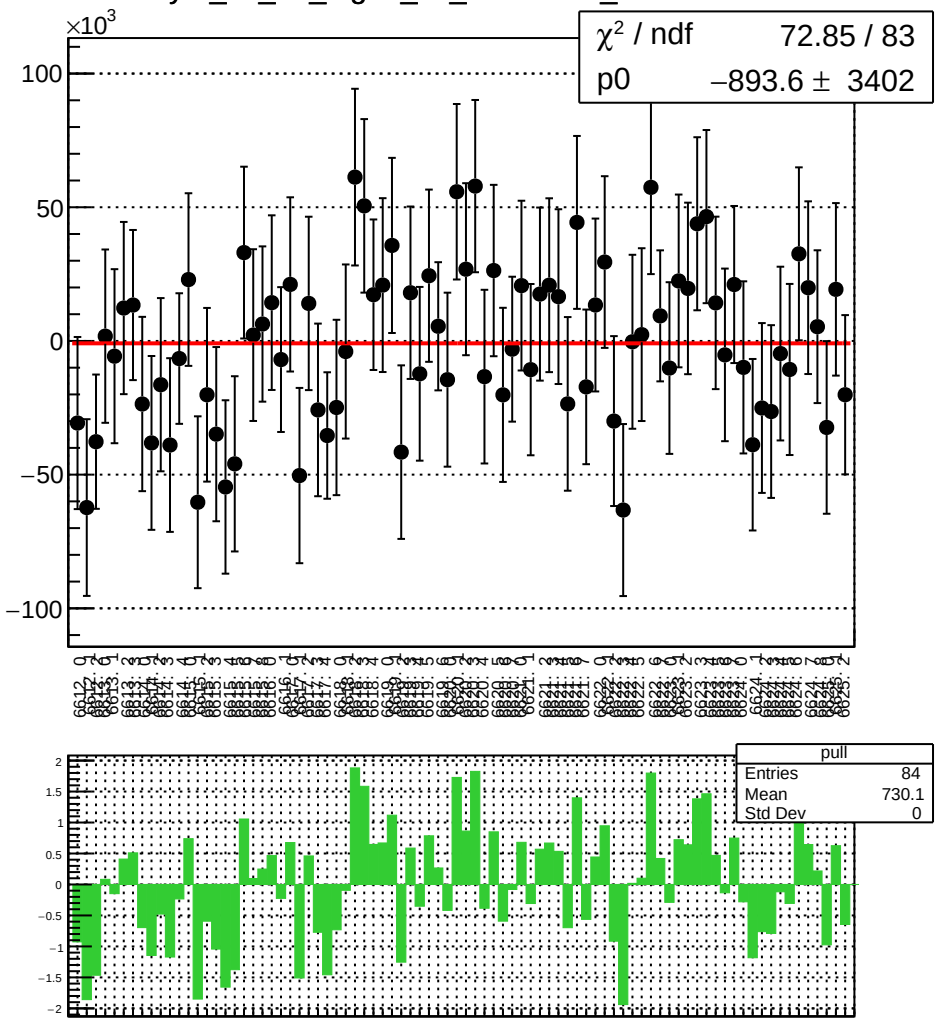

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 72.85 / 83
p0 −893.6 ± 3402
100
50
0
−50
−100
pull
Entries 84
Mean 730.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

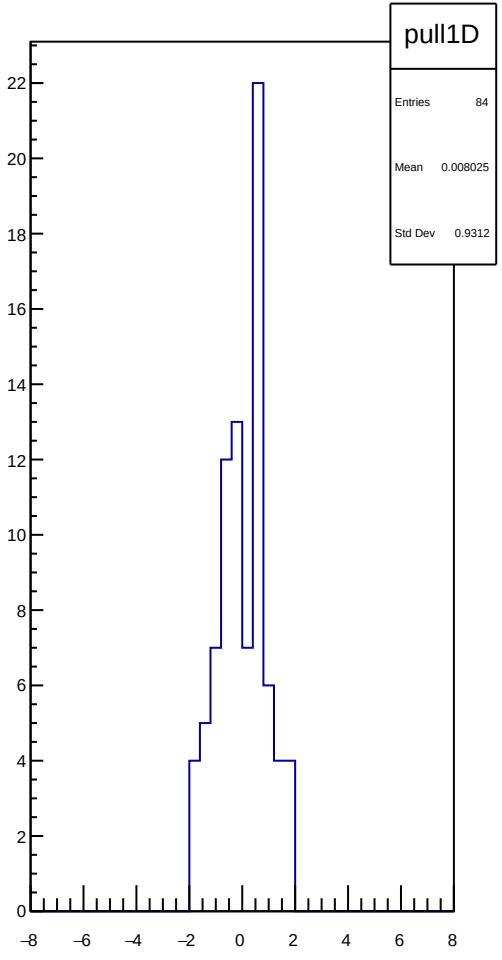

pull1D
Entries 84
Mean 0.008025
Std Dev 0.9312
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

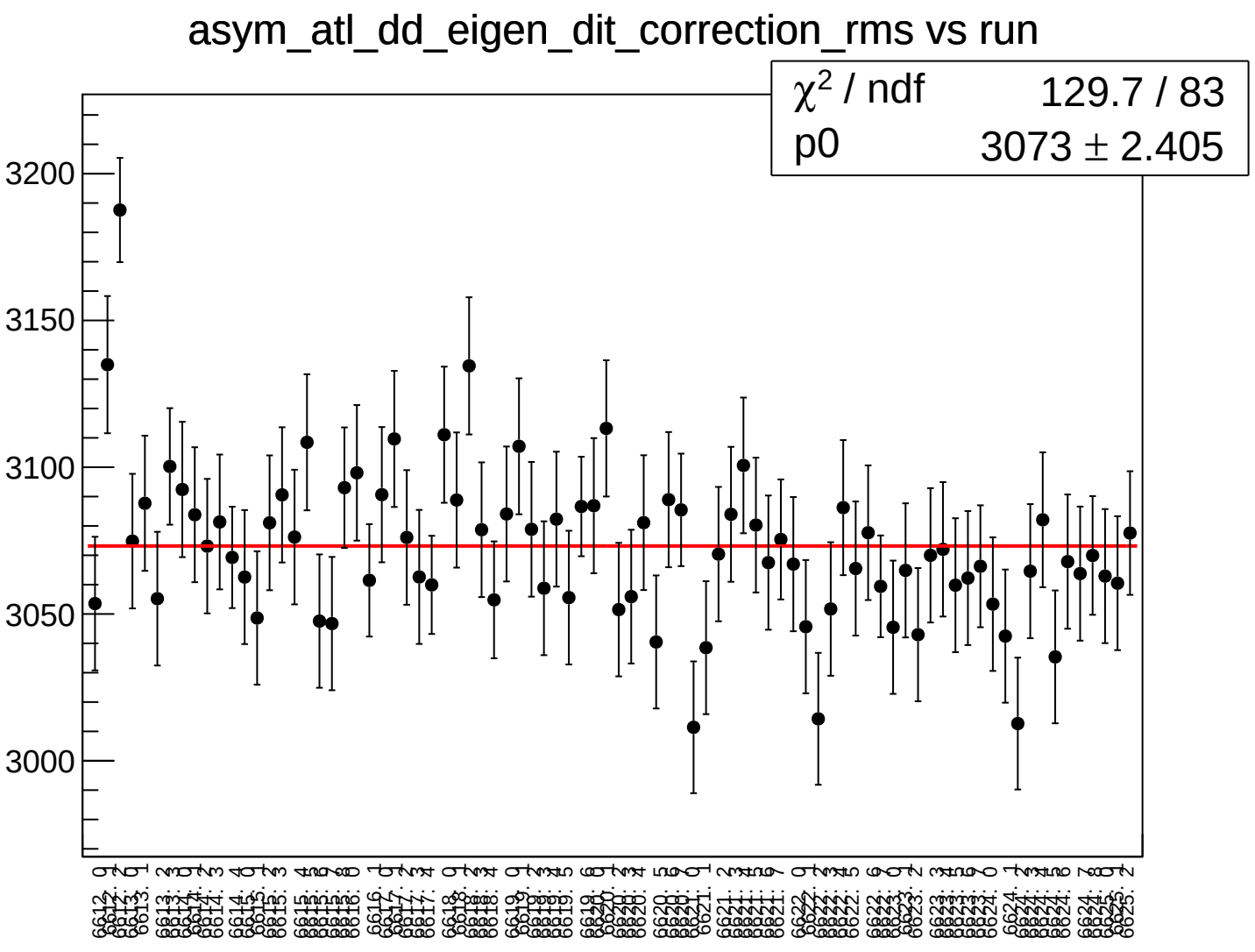

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 129.7 / 83
p0 3073 ± 2.405
3200
3150
3100
3050
3000

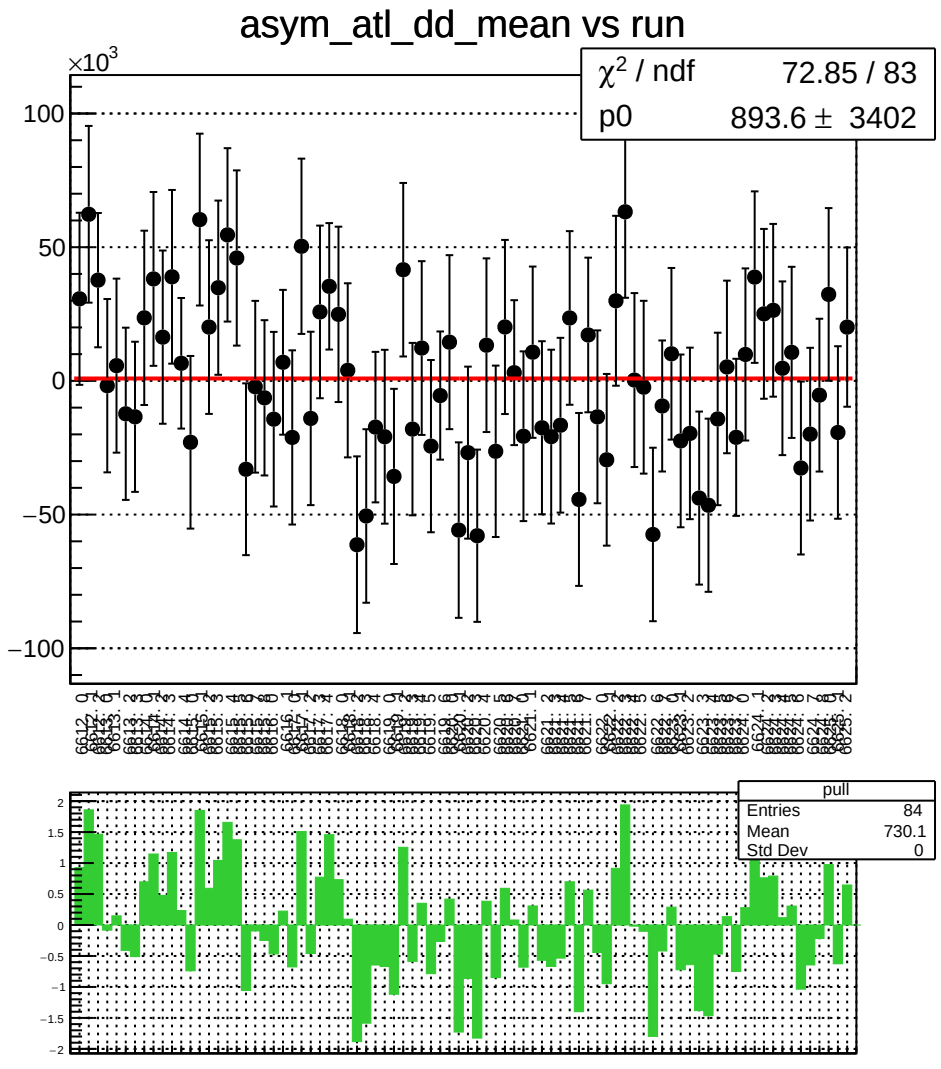

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

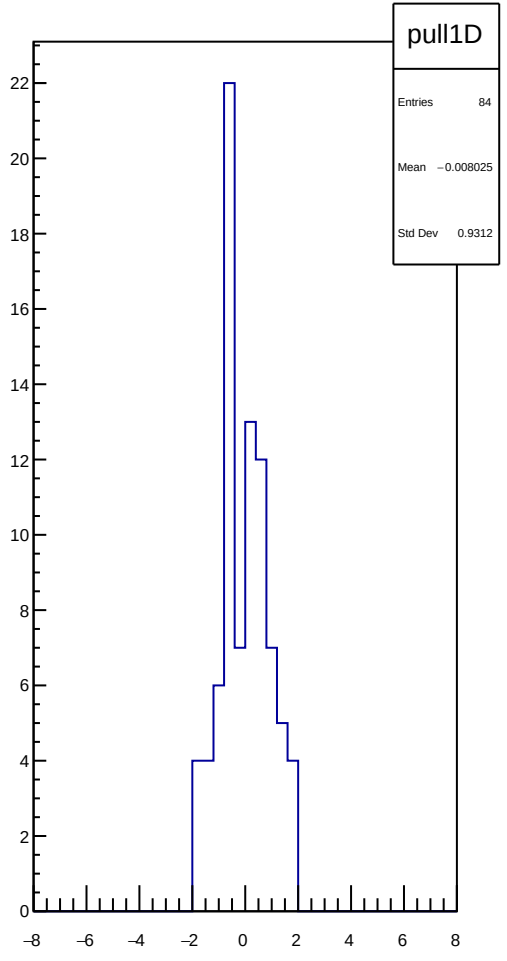

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

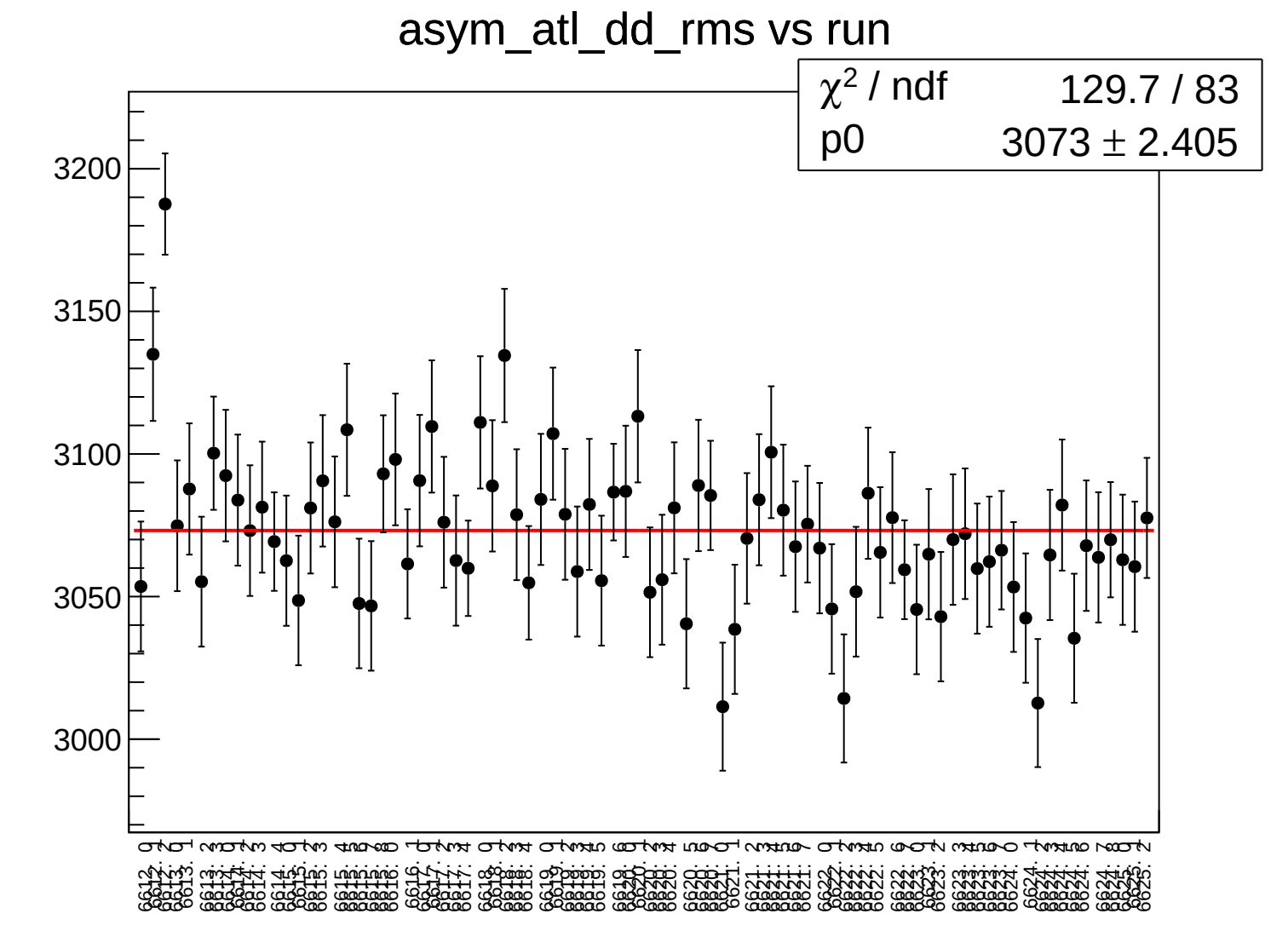

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 72.85 / 83
p0 −893.6 ± 3402
pull
Entries 84
Mean 730.1
Std Dev 0

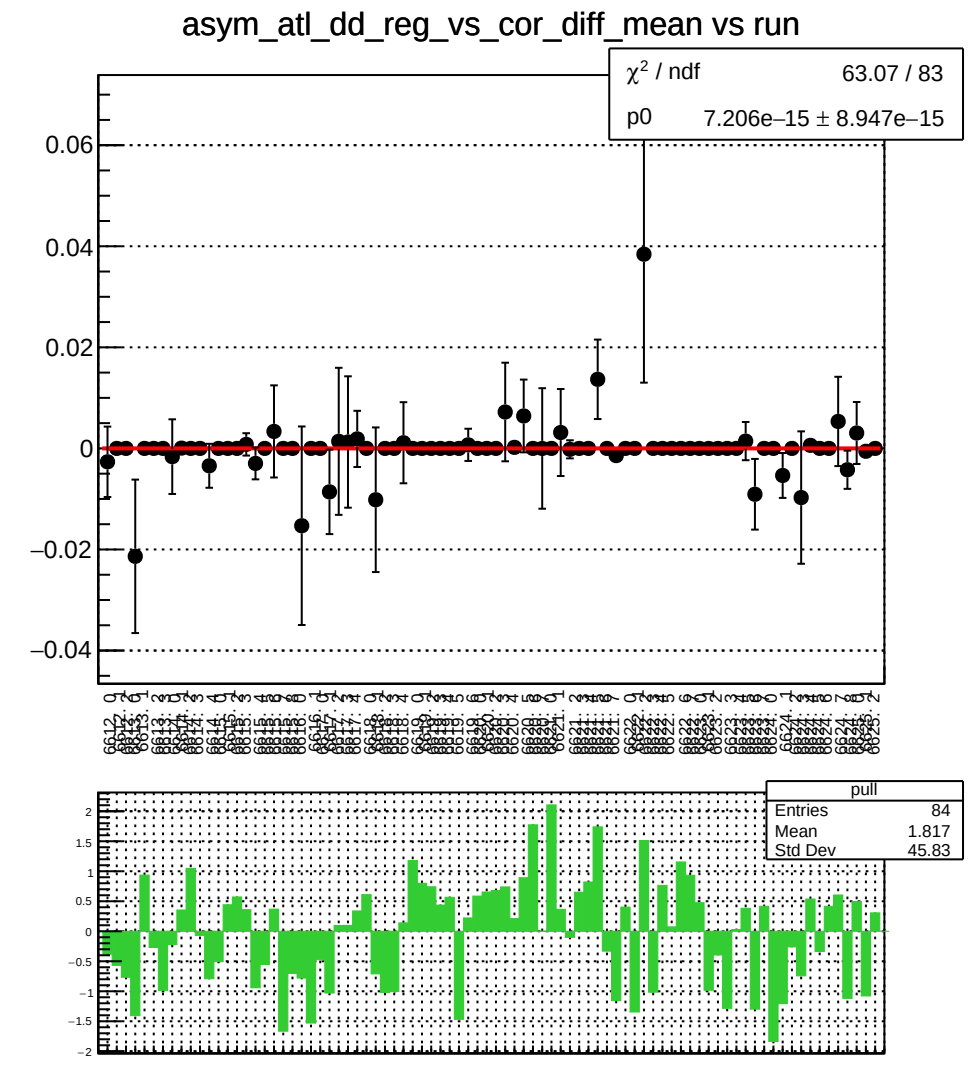

pull1D
Entries 84
Mean 0.008025
Std Dev 0.9312

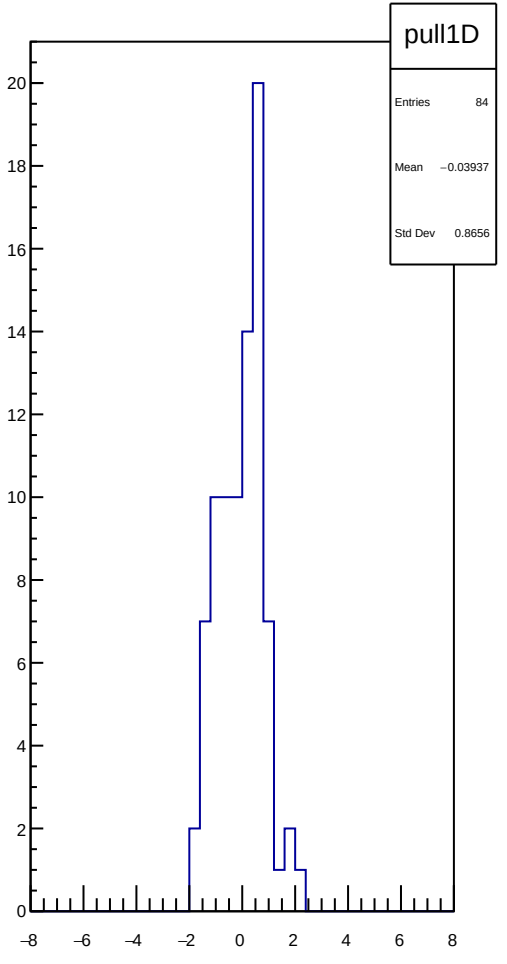

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 129.7 / 83
p0 3073 ± 2.405
3200
3150
3100
3050
3000

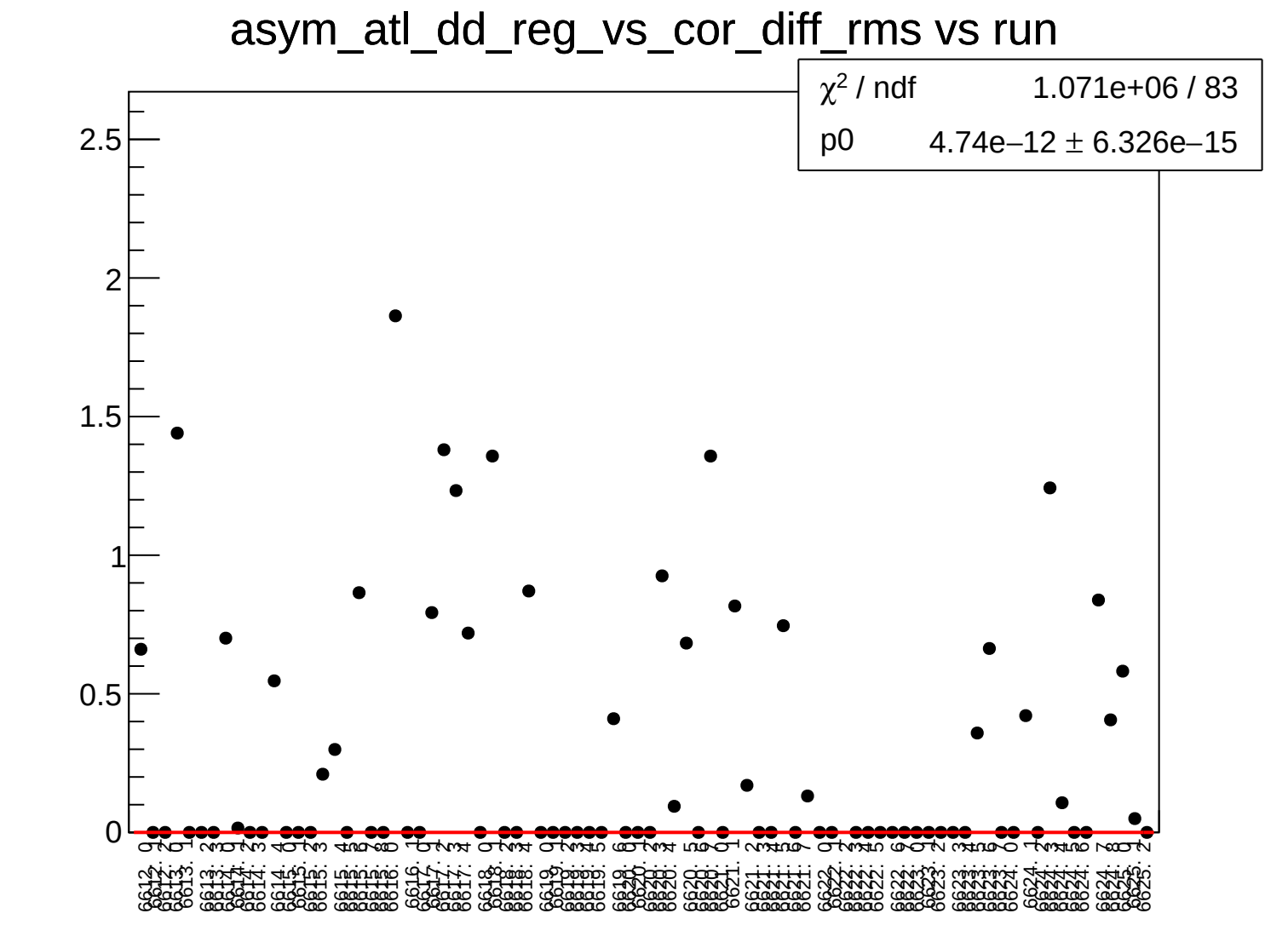

asym_atl_dd_mean vs run
×10^3
χ² / ndf 72.85 / 83
p0 893.6 ± 3402
100
50
0
−50
−100
pull
Entries 84
Mean 730.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

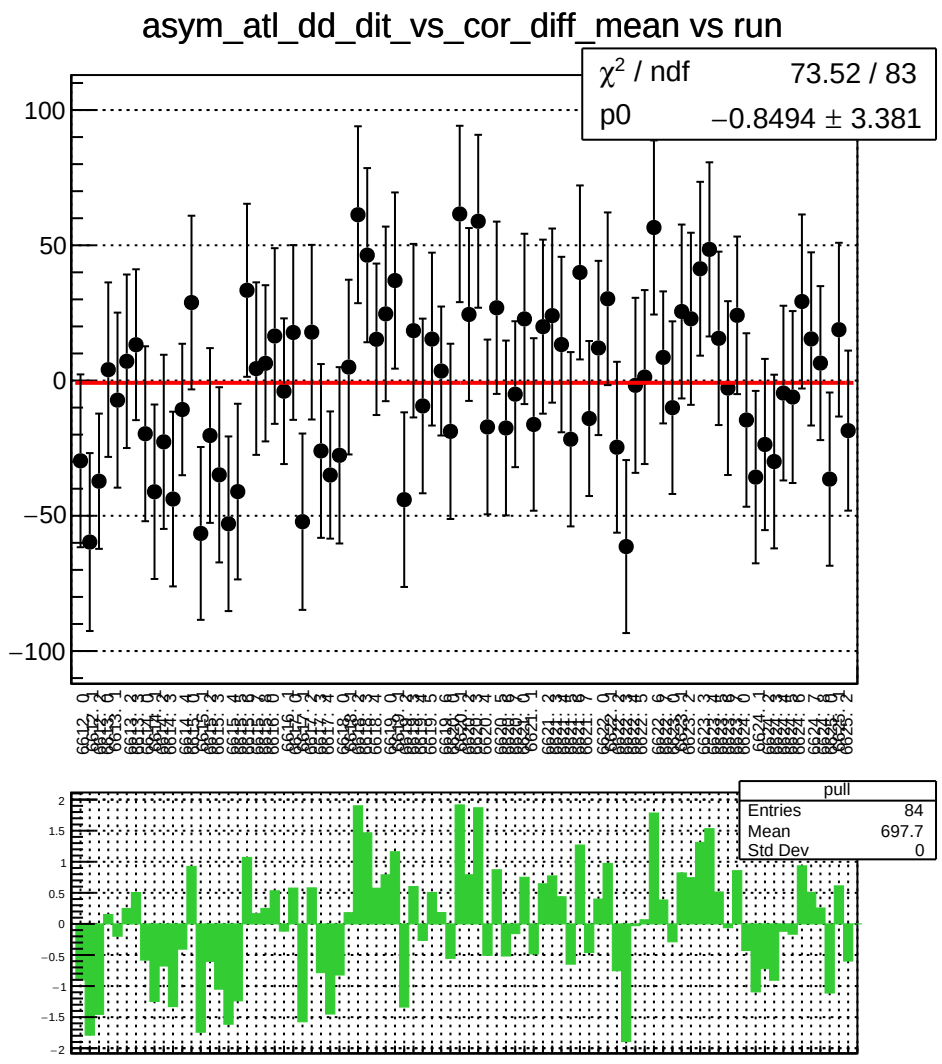

pull1D
Entries 84
Mean −0.008025
Std Dev 0.9312
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

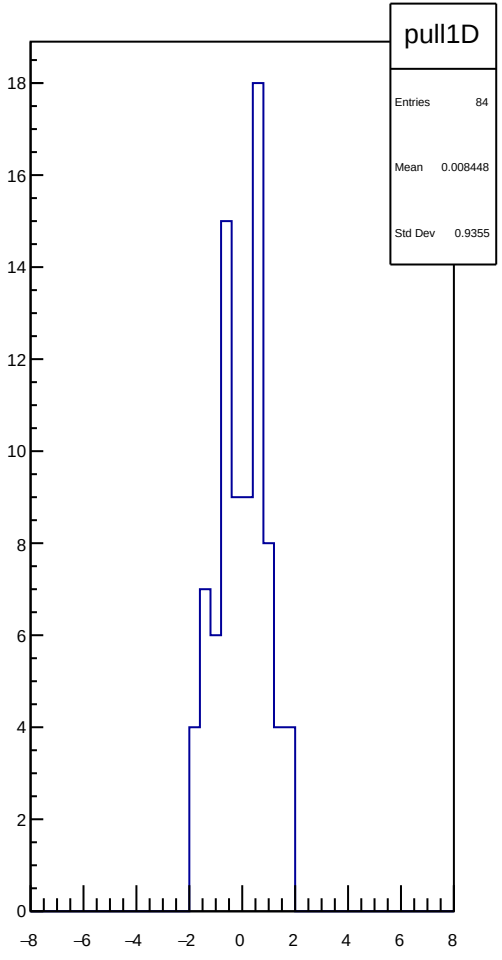

asym_atl_dd_rms vs run
χ^2 / ndf 129.7 / 83
p0 3073 ± 2.405
3200
3150
3100
3050
3000

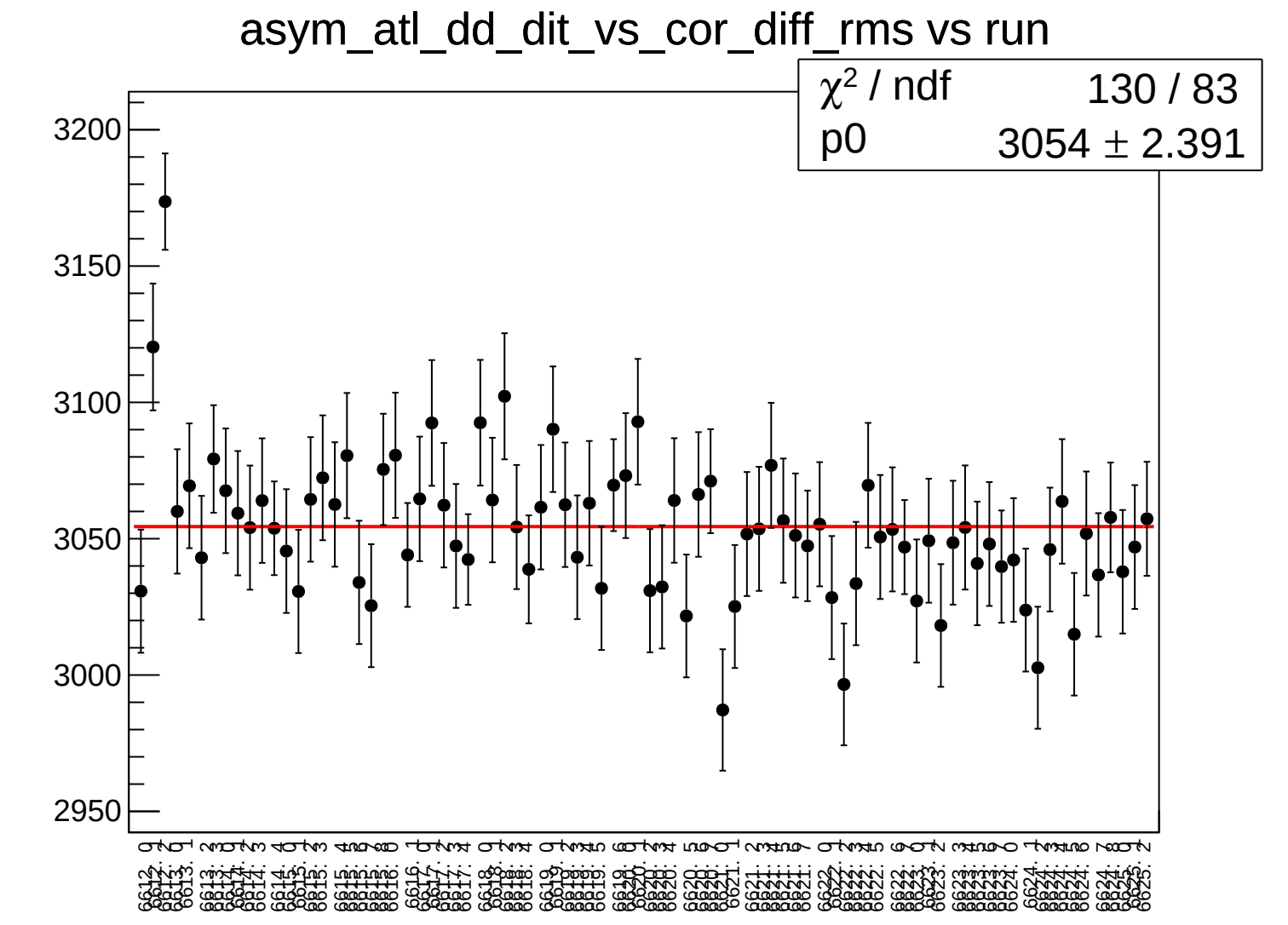

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 63.07 / 83
p0 7.206e−15 ± 8.947e−15
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 84
Mean 1.817
Std Dev 45.83
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

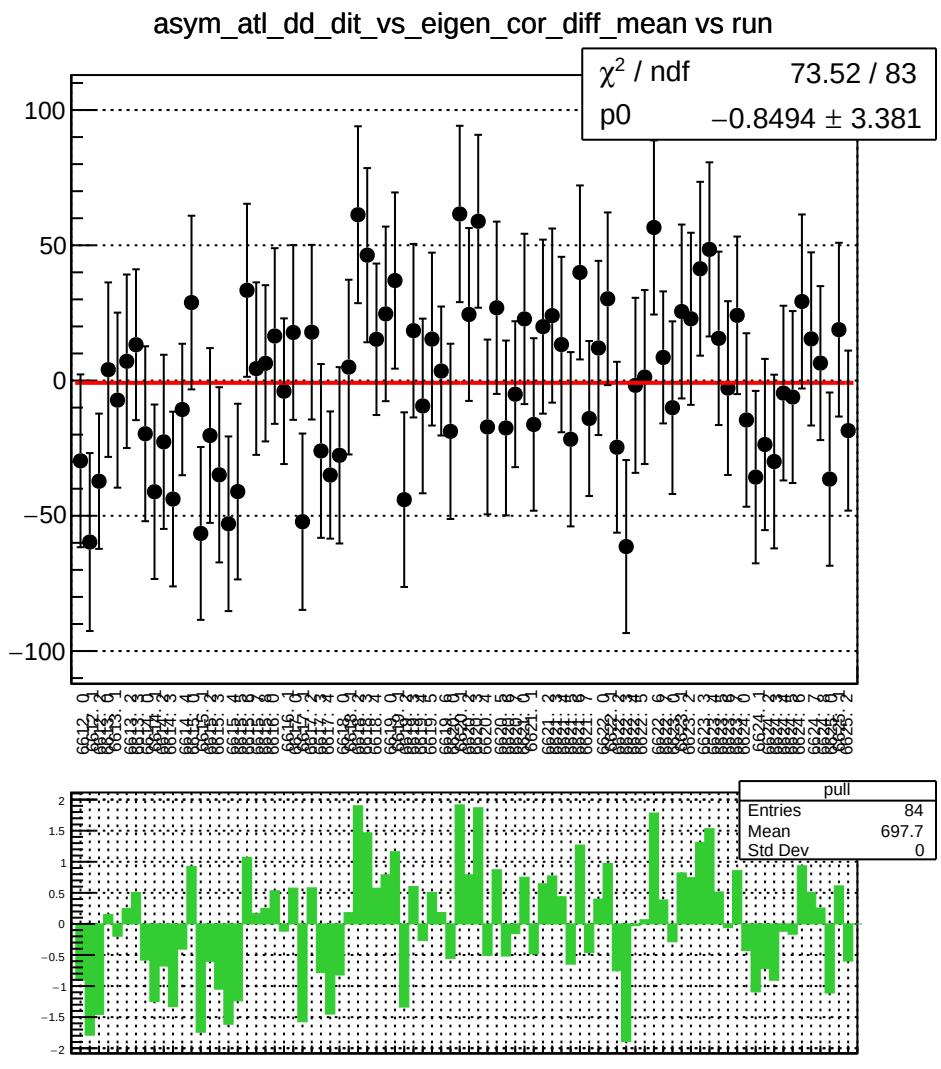

pull1D
Entries 84
Mean −0.03937
Std Dev 0.8656
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

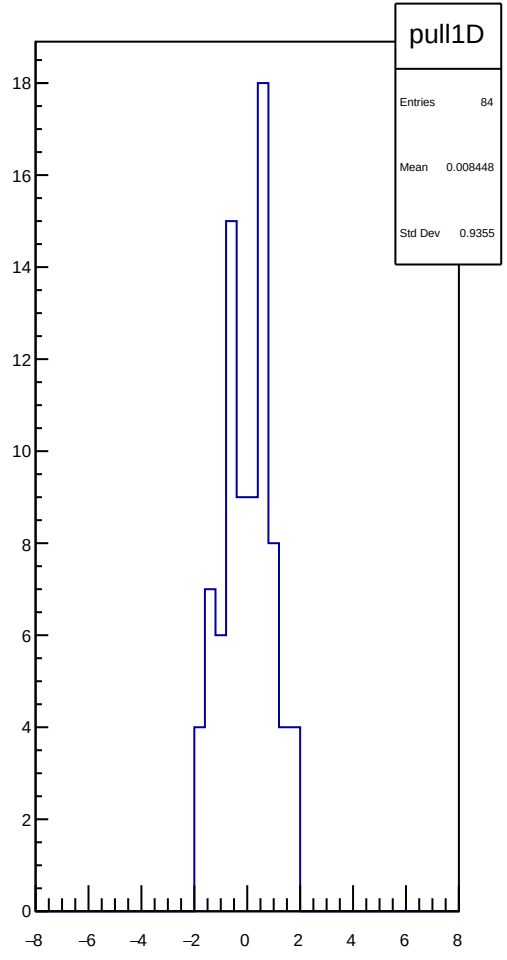

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.071e+06 / 83
p0 4.74e−12 ± 6.326e−15
2.5
2
1.5
1
0.5
0

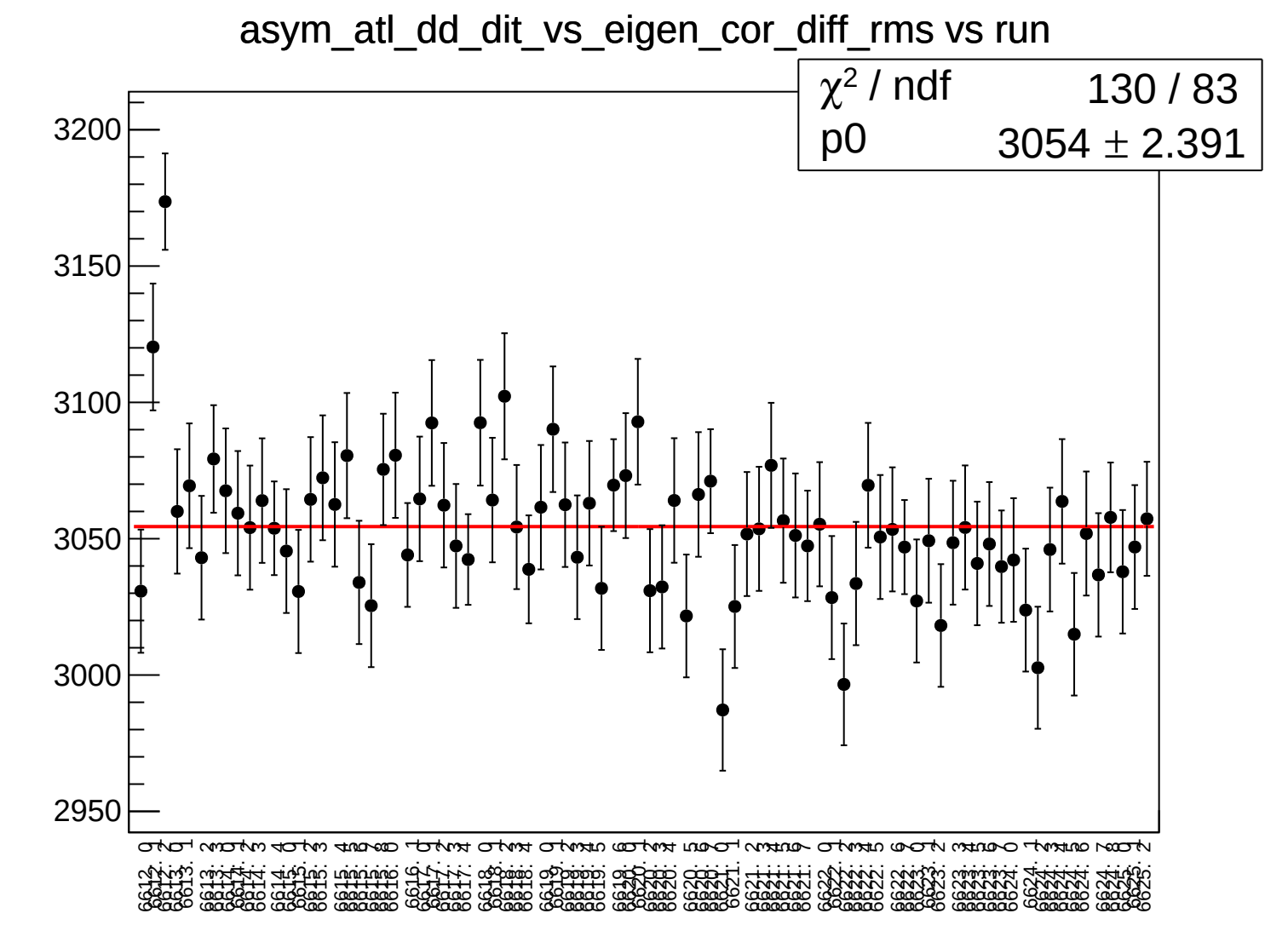

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.52 / 83
p0 −0.8494 ± 3.381
pull
Entries 84
Mean 697.7
Std Dev 0

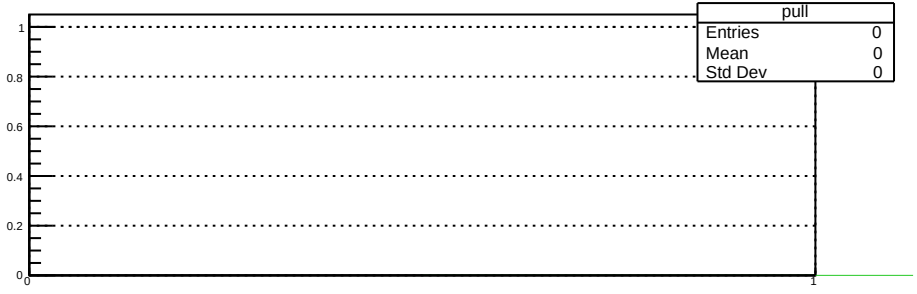

pull1D
Entries 84
Mean 0.008448
Std Dev 0.9355

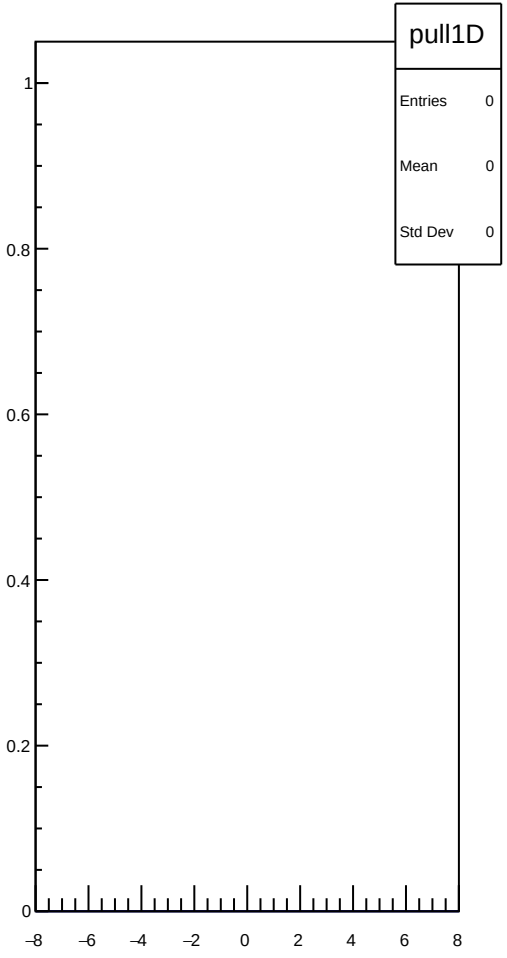

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 130 / 83
p0 3054 ± 2.391
3200
3150
3100
3050
3000
2950

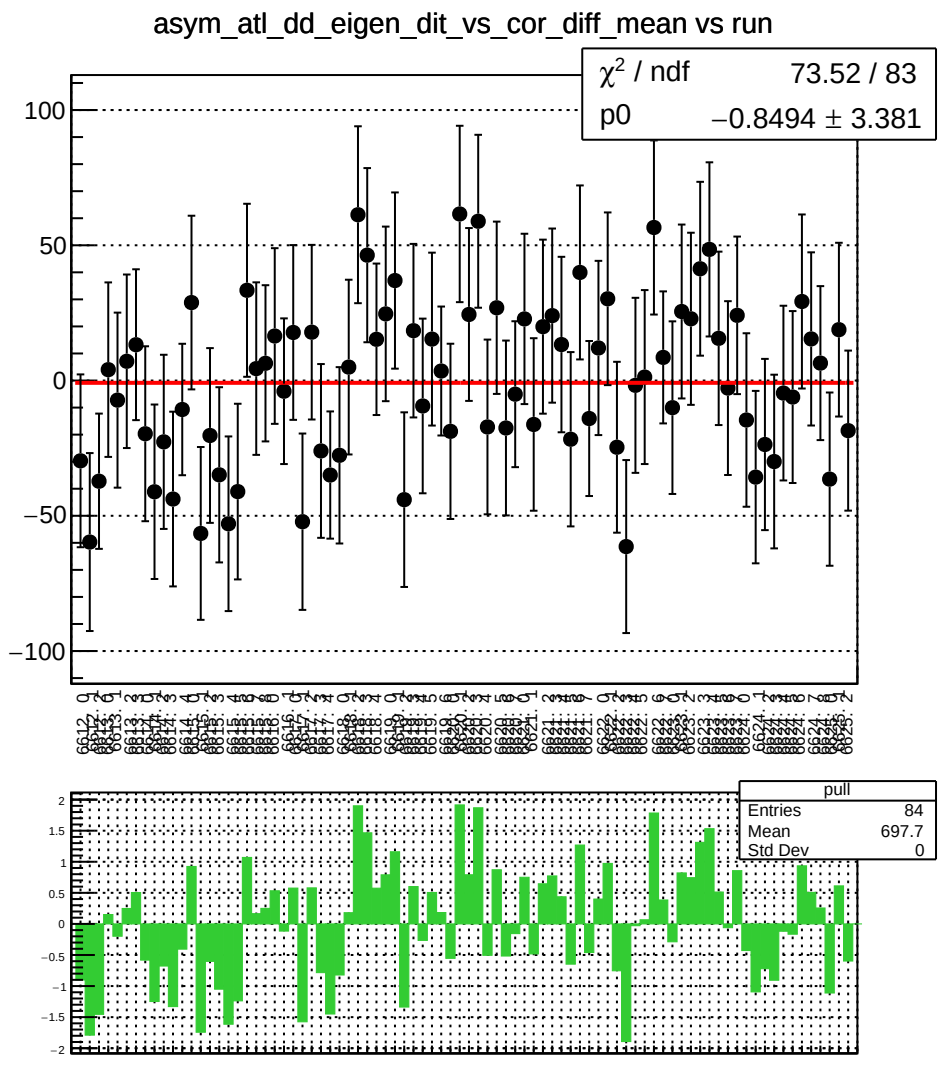

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.52 / 83
p0 −0.8494 ± 3.381
pull
Entries 84
Mean 697.7
Std Dev 0

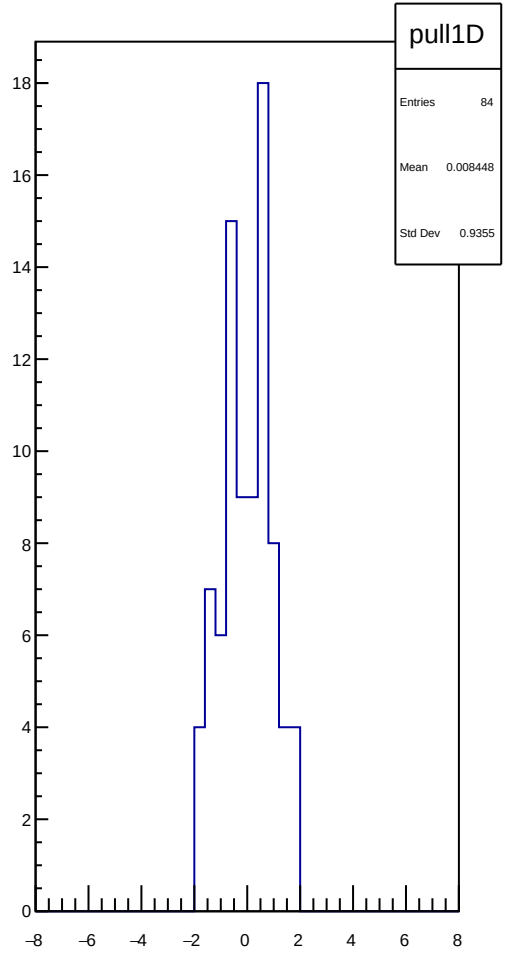

pull1D
Entries 84
Mean 0.008448
Std Dev 0.9355

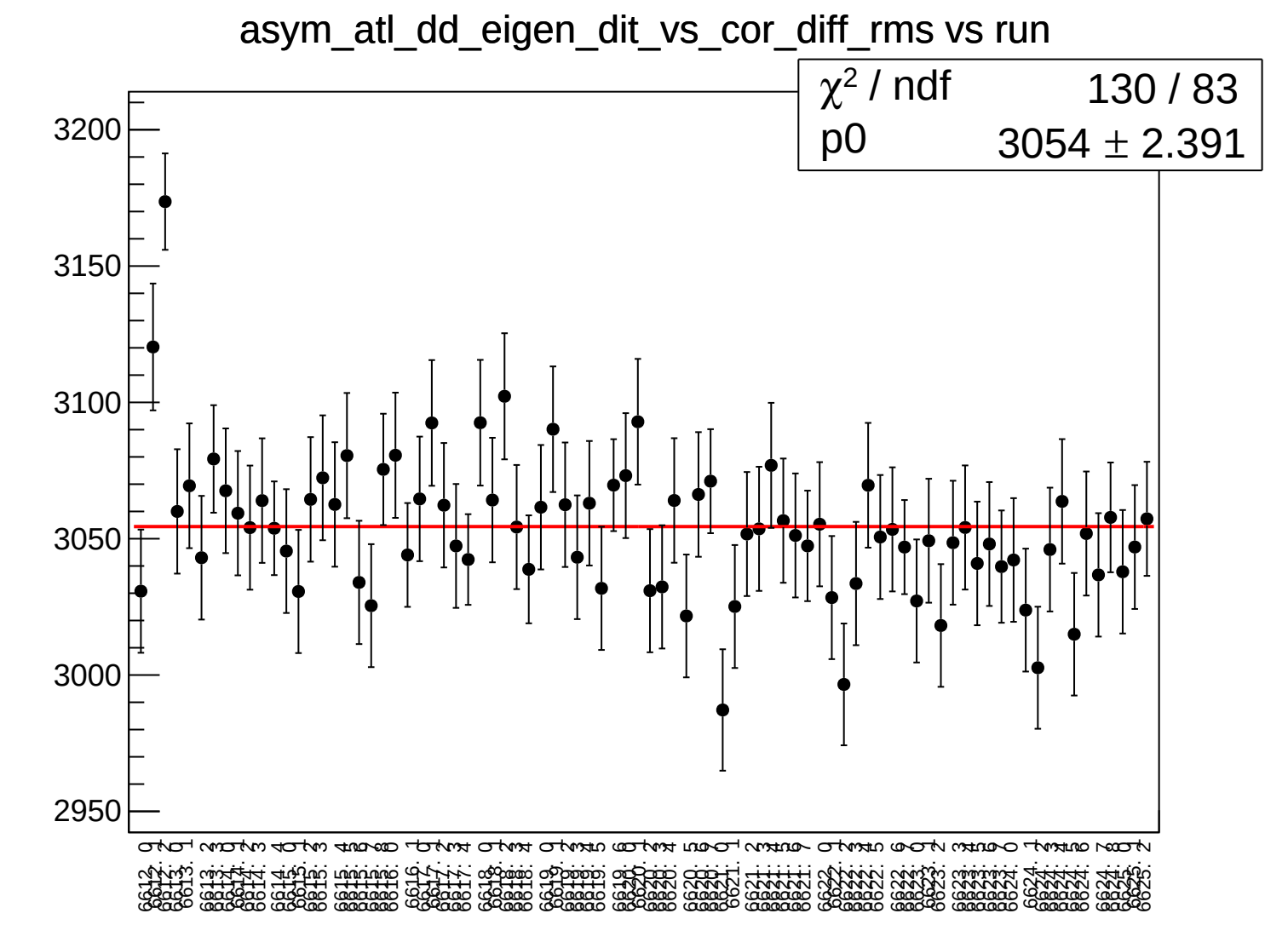

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 130 / 83
p0 3054 ± 2.391
3200
3150
3100
3050
3000
2950

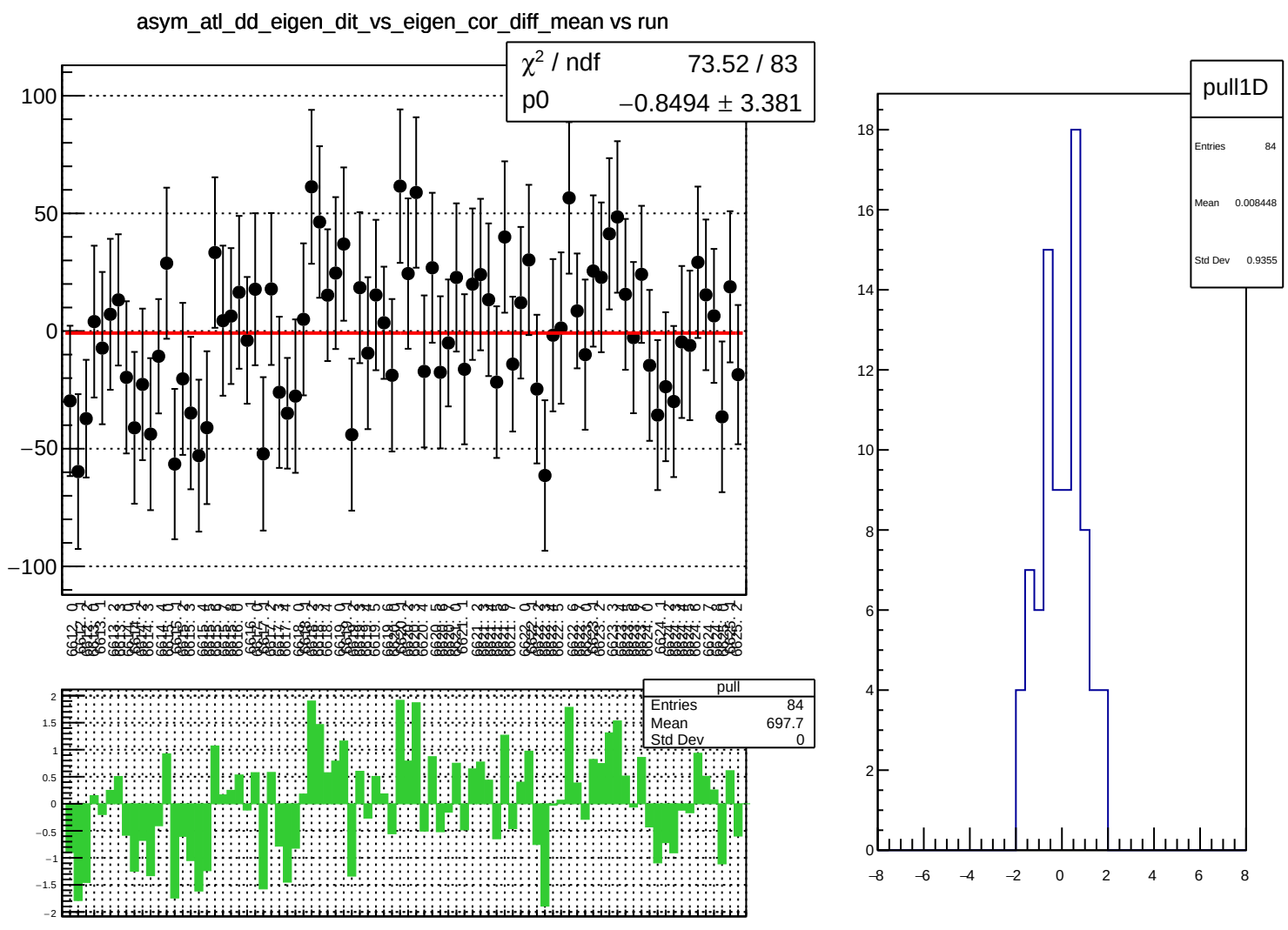

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

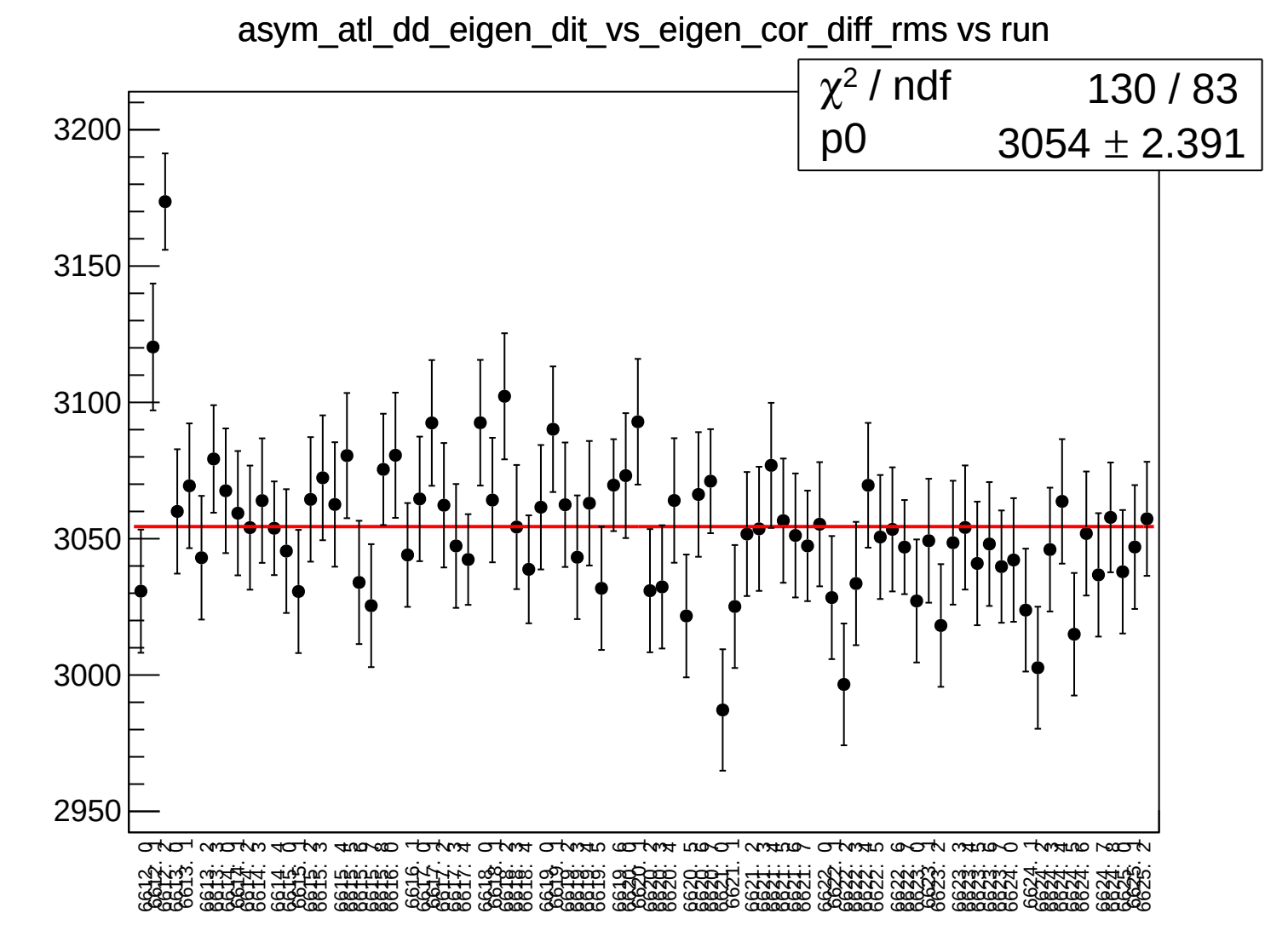

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

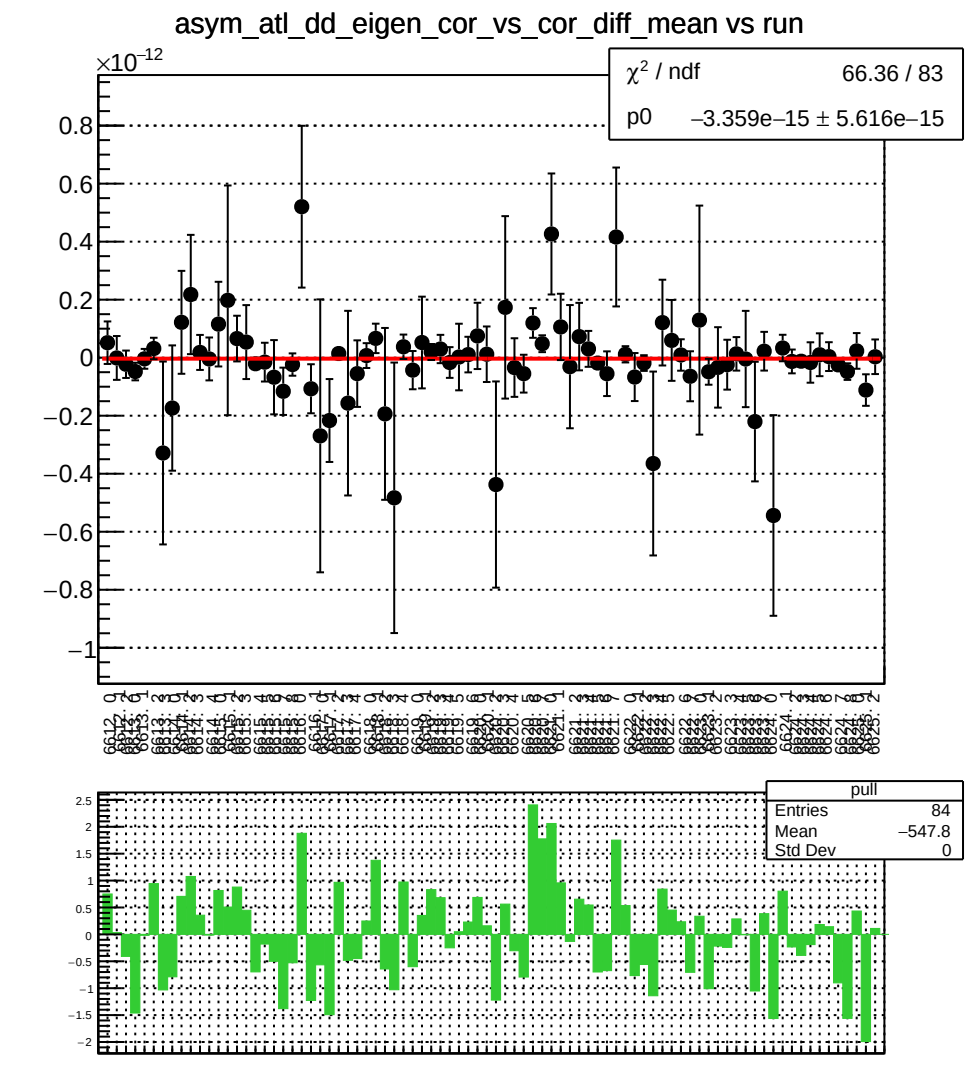

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.52 / 83
p0 −0.8494 ± 3.381
pull
Entries 84
Mean 697.7
Std Dev 0

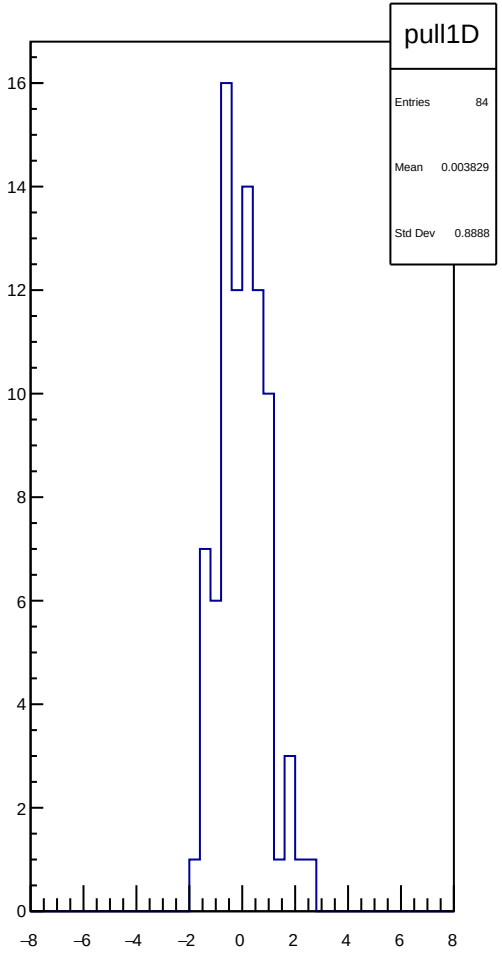

pull1D
Entries 84
Mean 0.008448
Std Dev 0.9355

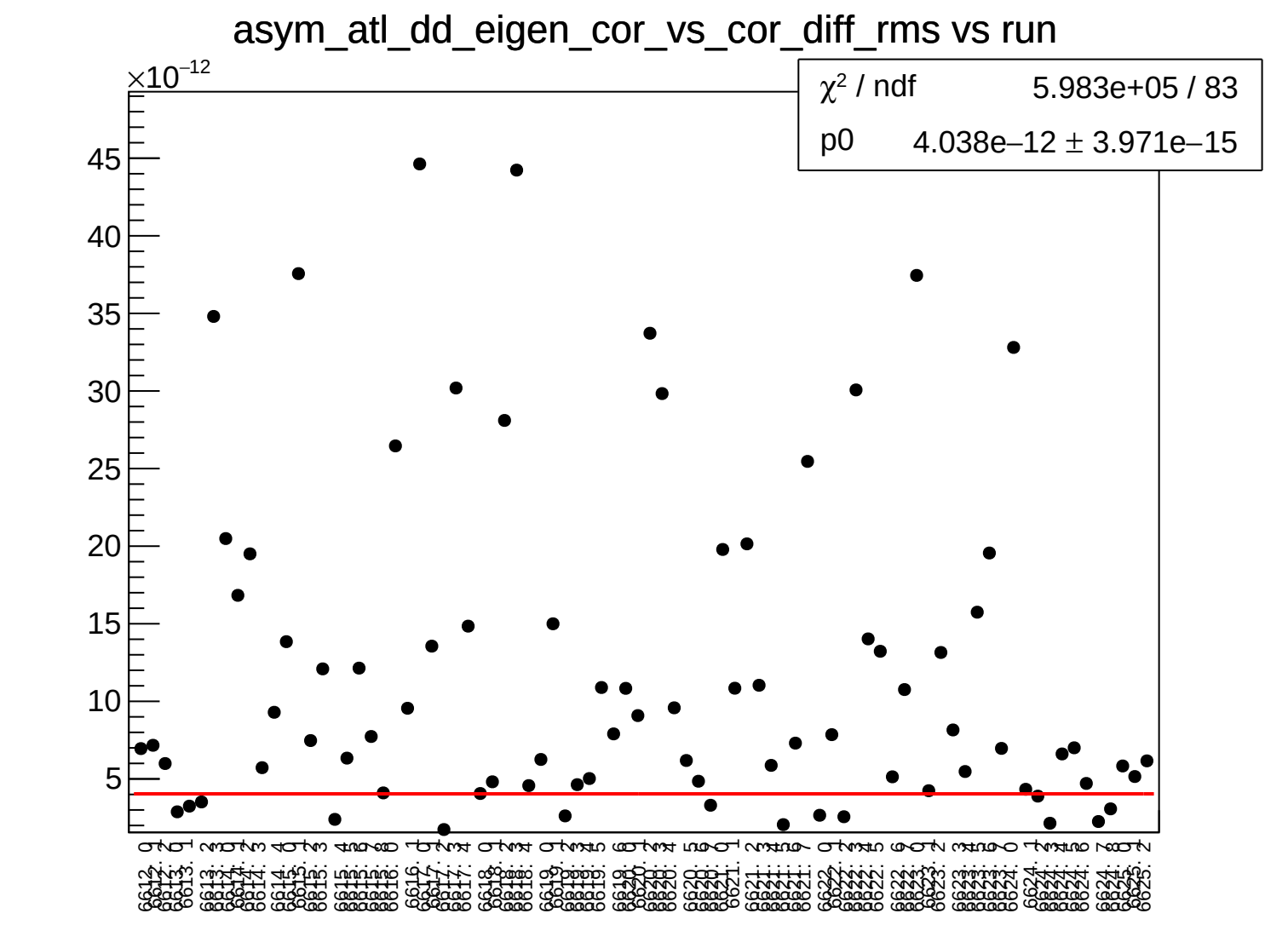

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 130 / 83
p0 3054 ± 2.391
3200
3150
3100
3050
3000
2950

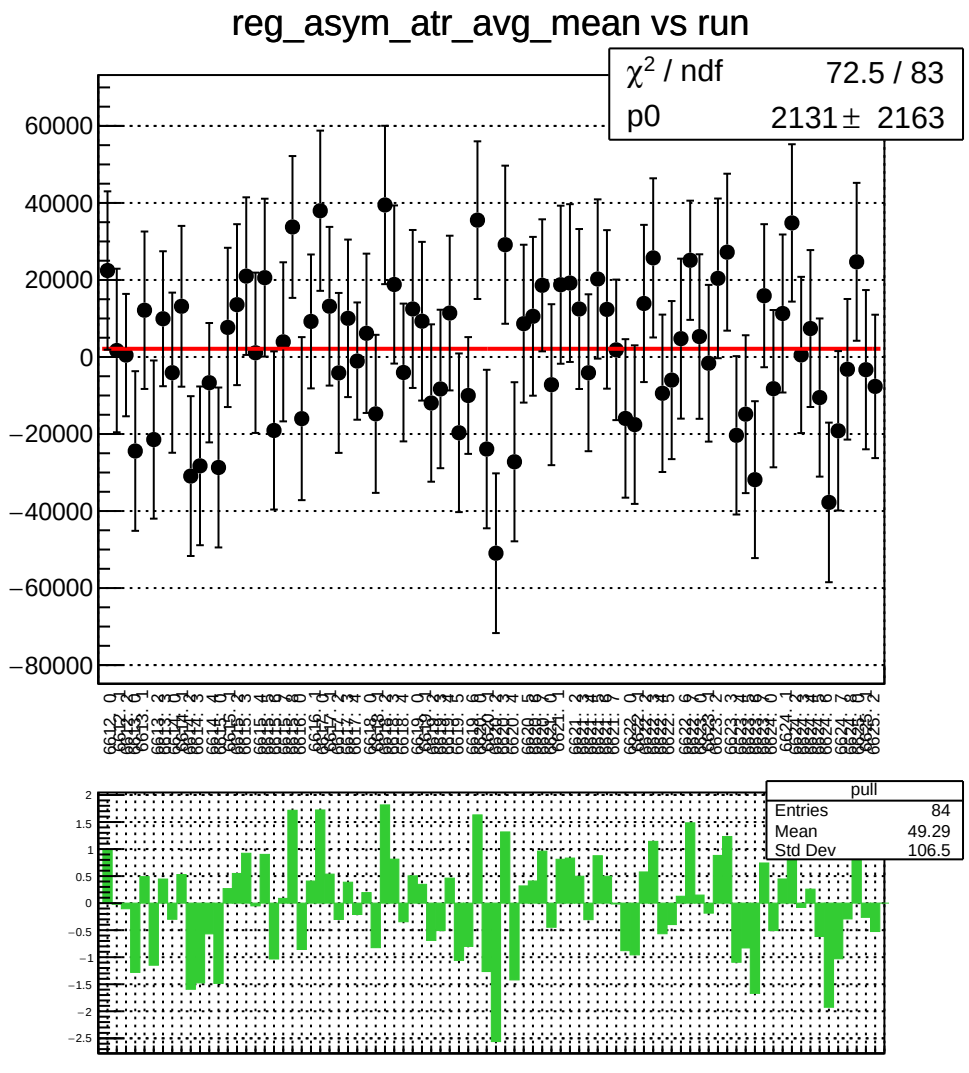

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.52 / 83
p0 −0.8494 ± 3.381
pull
Entries 84
Mean 697.7
Std Dev 0
pull1D
Entries 84
Mean 0.008448
Std Dev 0.9355

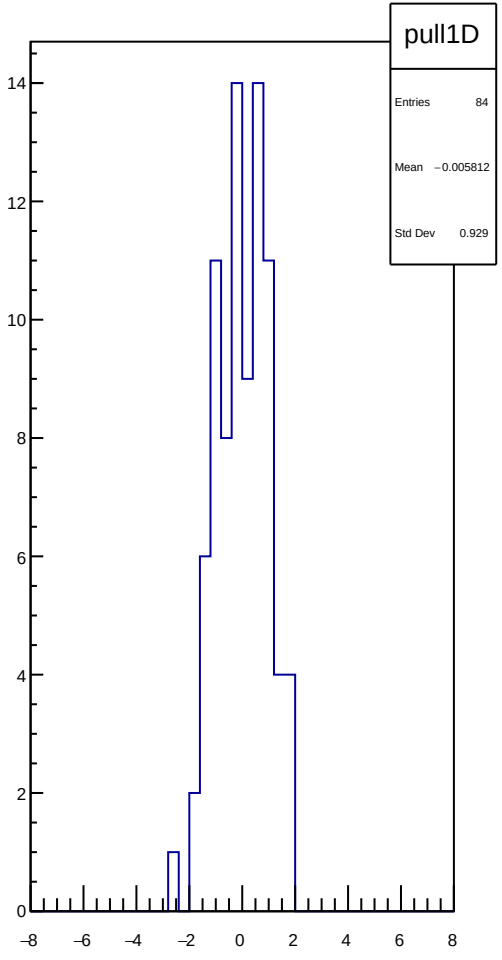

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 130 / 83
p0 3054 ± 2.391
3200
3150
3100
3050
3000
2950

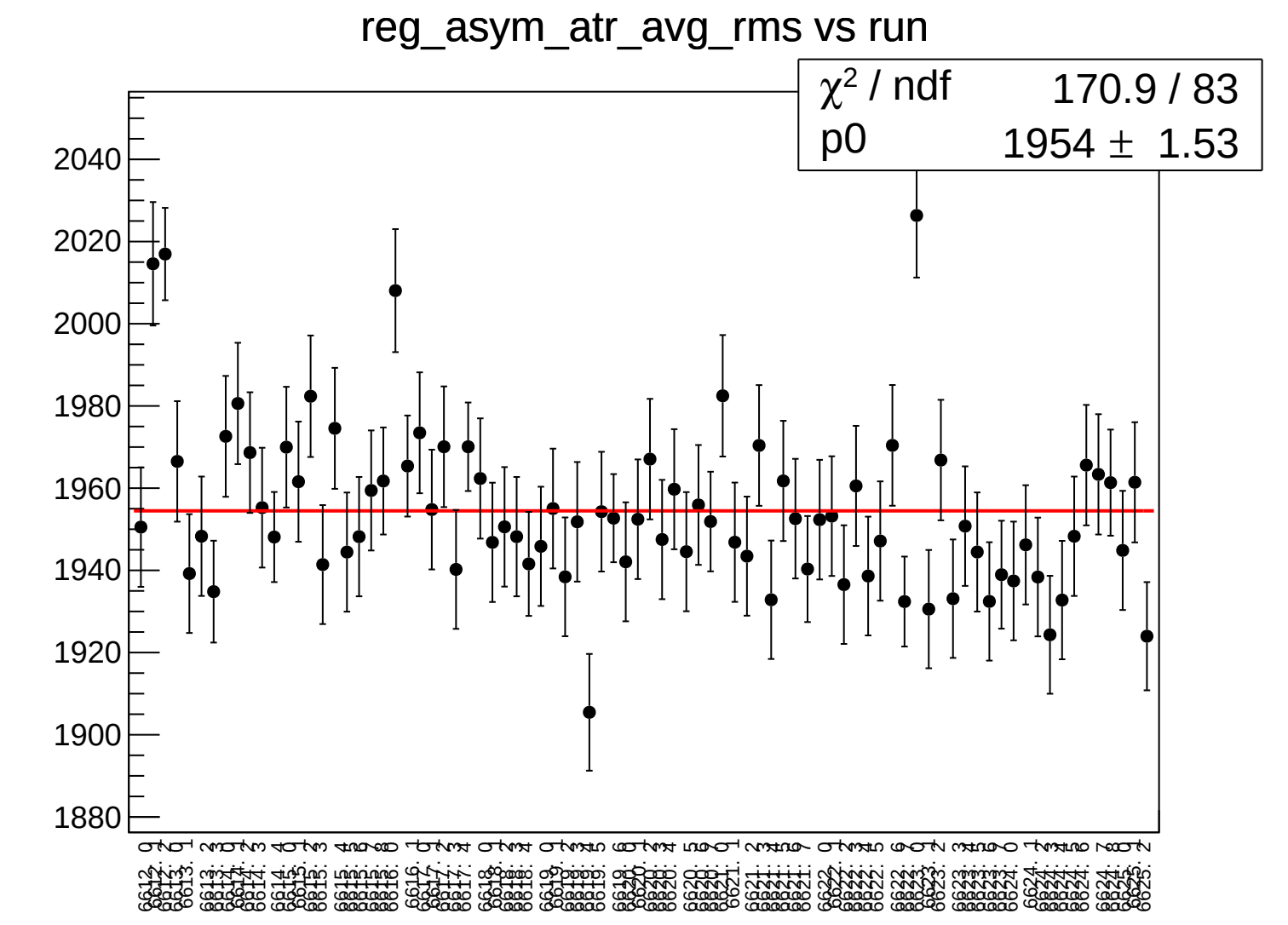

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.36 / 83
p0 −3.359e−15 ± 5.616e−15
pull
Entries 84
Mean −547.8
Std Dev 0

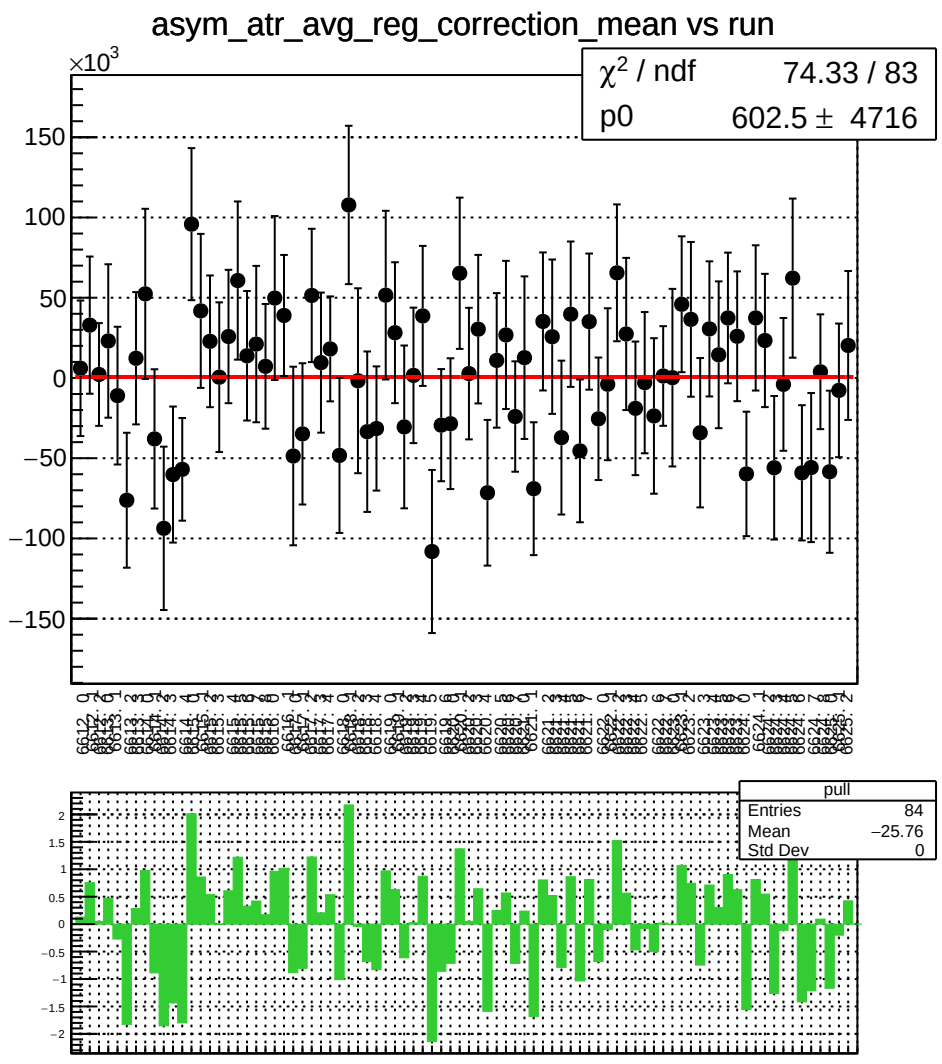

pull1D
Entries 84
Mean 0.003829
Std Dev 0.8888

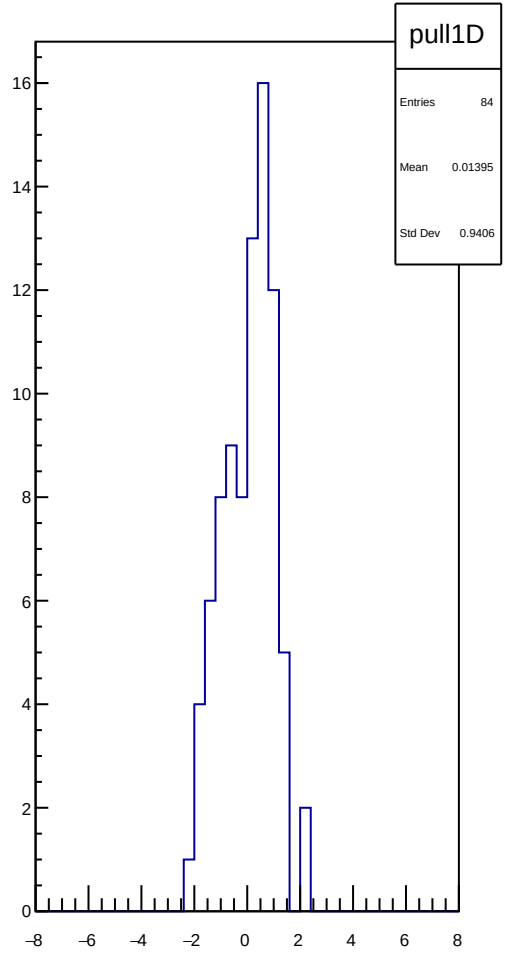

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.983e+05 / 83
p0 4.038e−12 ± 3.971e−15
45
40
35
30
25
20
15
10
5

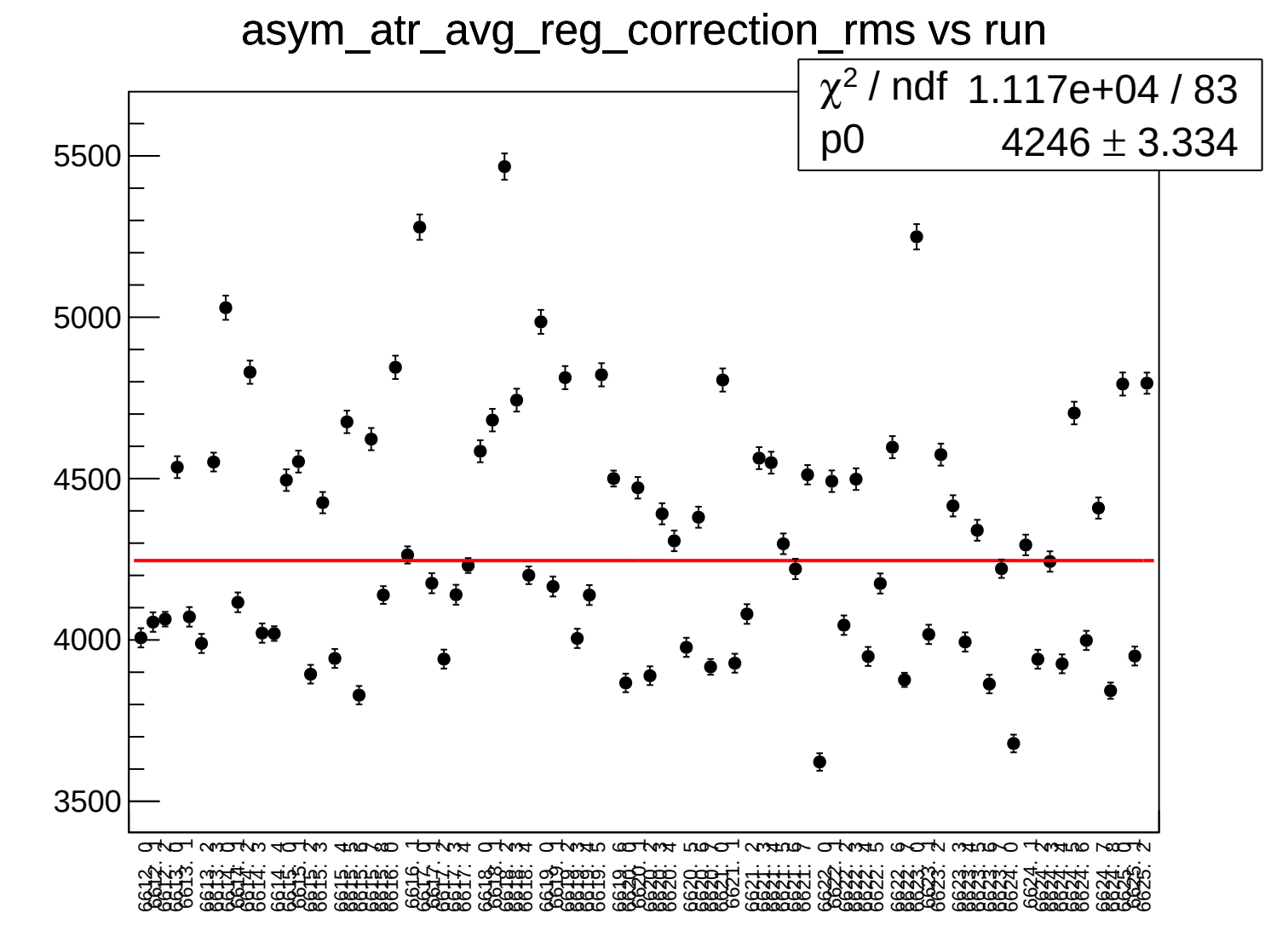

reg_asym_atr_avg_mean vs run
χ² / ndf 72.5 / 83
p0 2131 ± 2163
pull
Entries 84
Mean 49.29
Std Dev 106.5

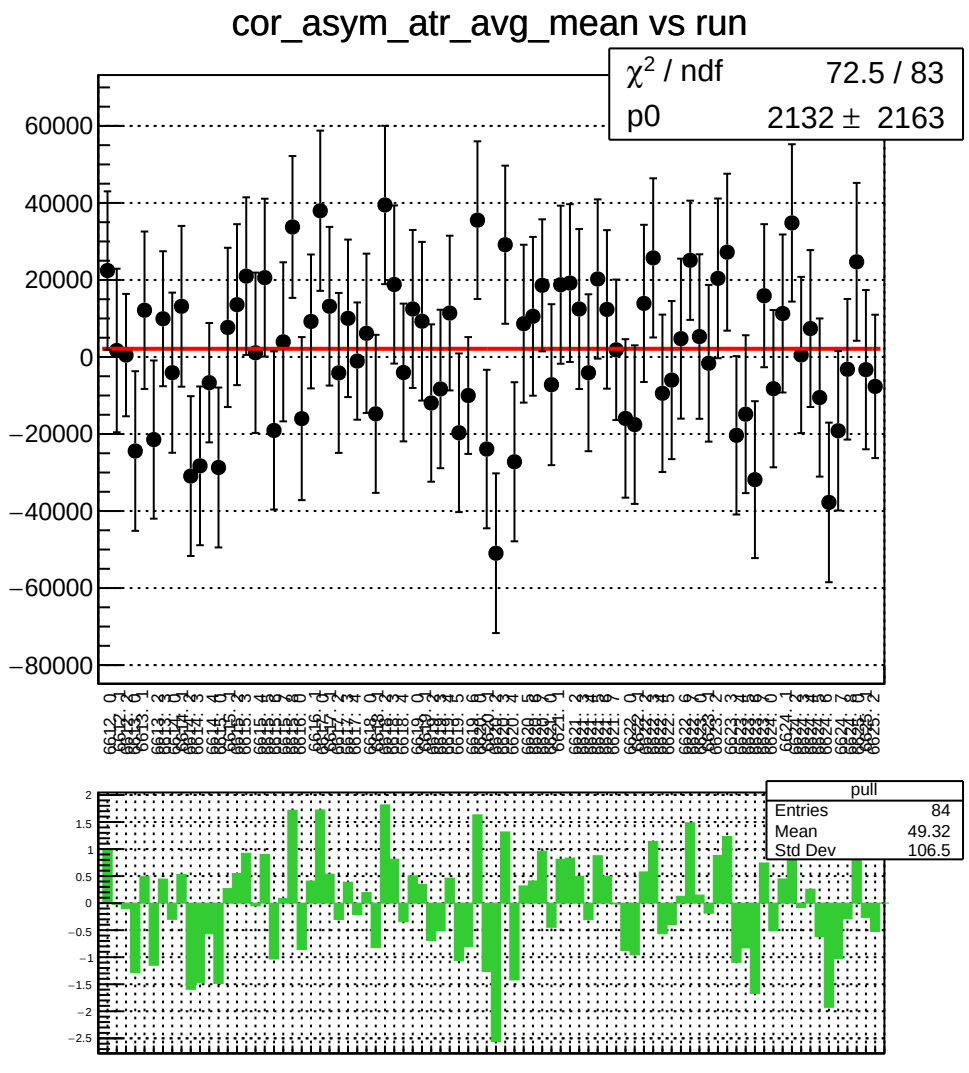

pull1D
Entries 84
Mean −0.005812
Std Dev 0.929

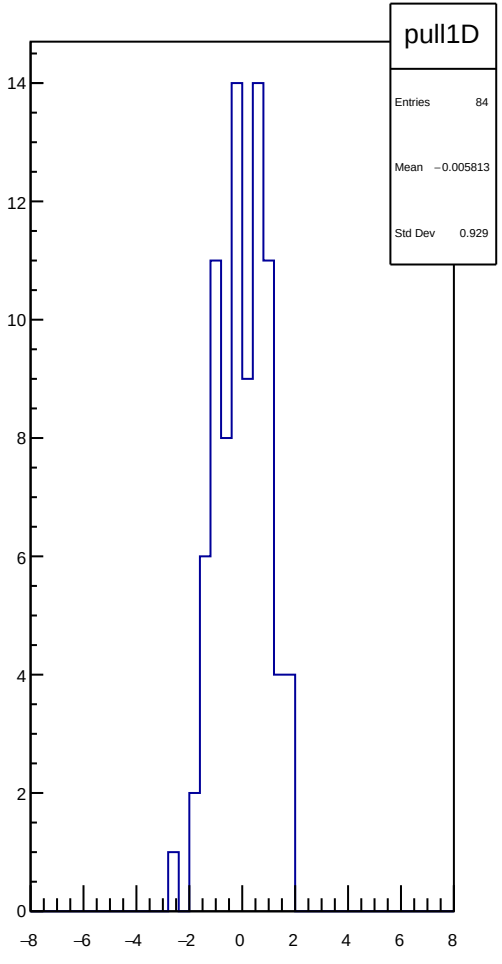

reg_asym_atr_avg_rms vs run
χ^2 / ndf 170.9 / 83
p0 1954 ± 1.53
2040
2020
2000
1980
1960
1940
1920
1900
1880

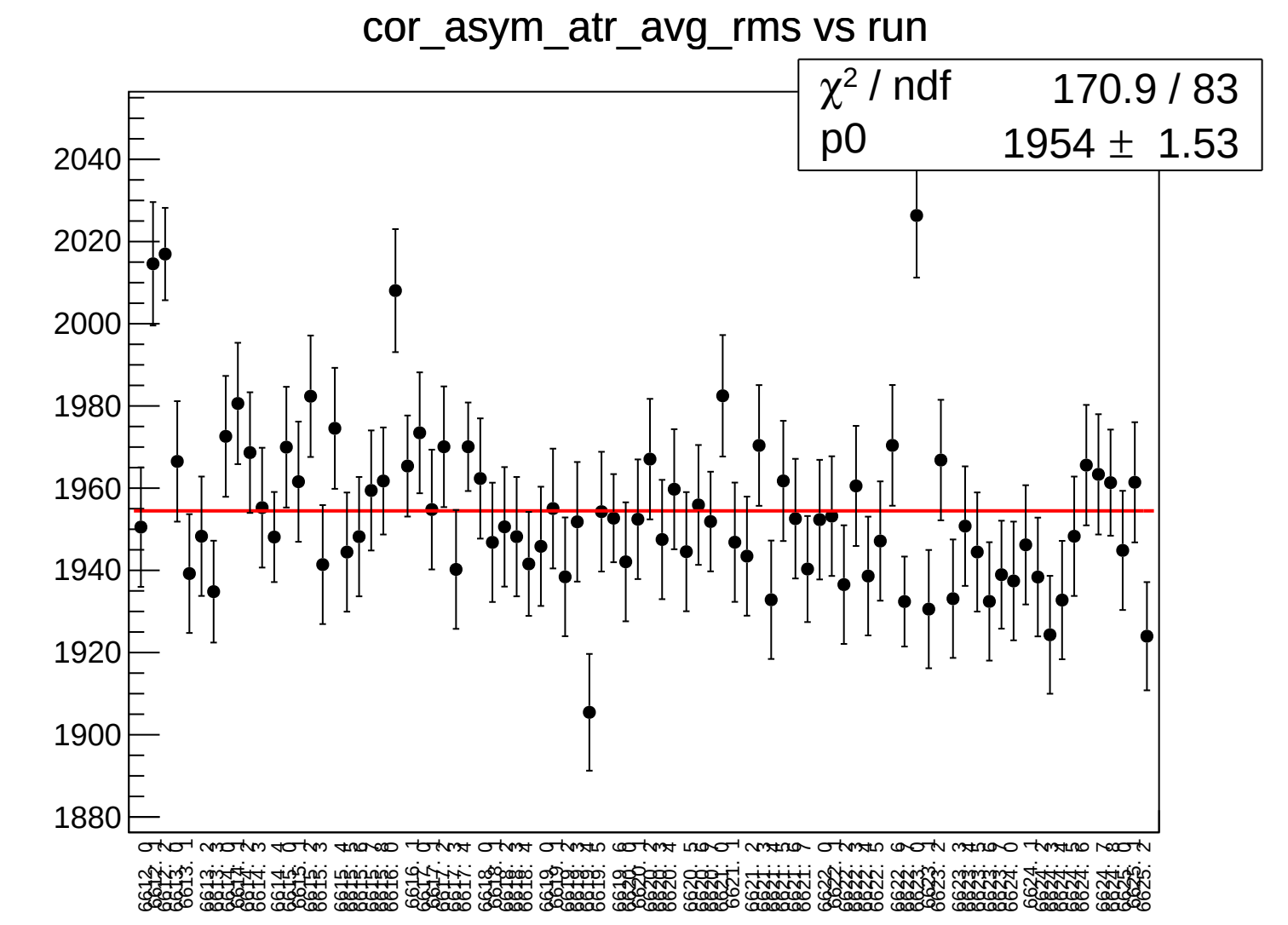

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 74.33 / 83
p0 602.5 ± 4716
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −25.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

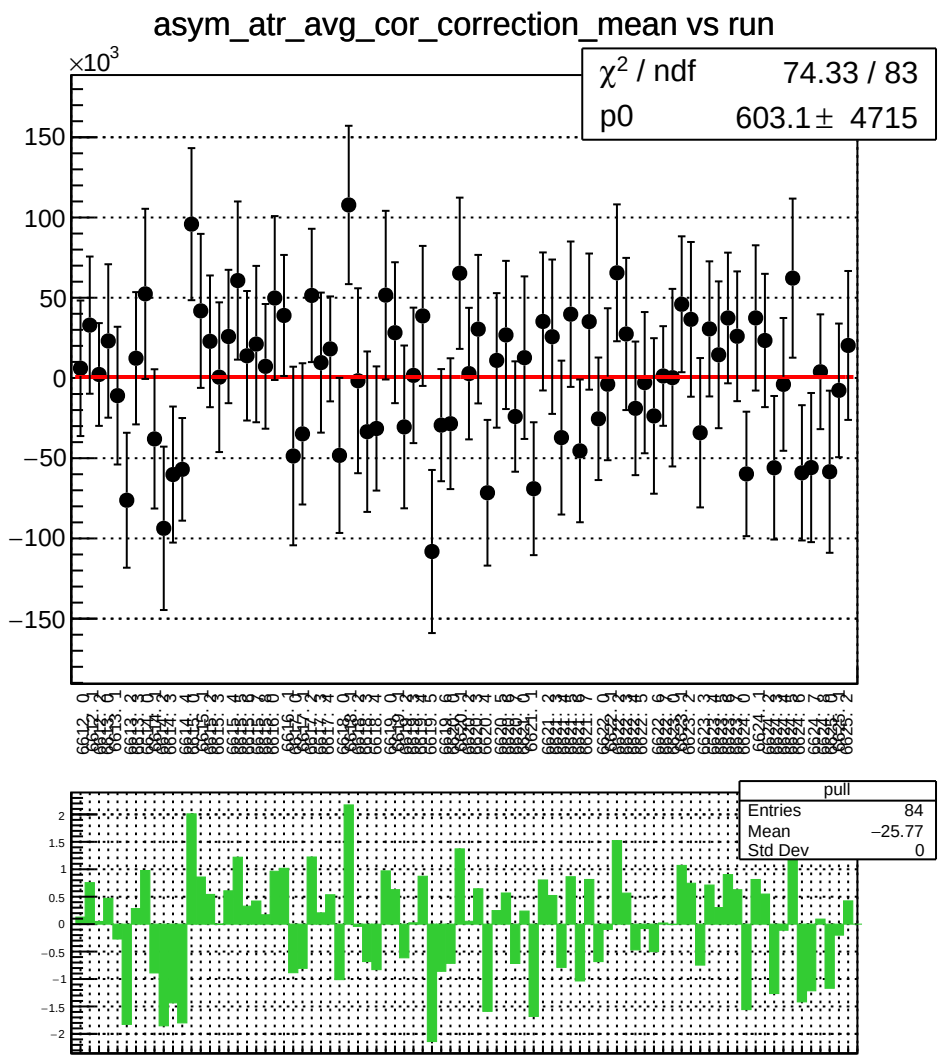

pull1D
Entries 84
Mean 0.01395
Std Dev 0.9406
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

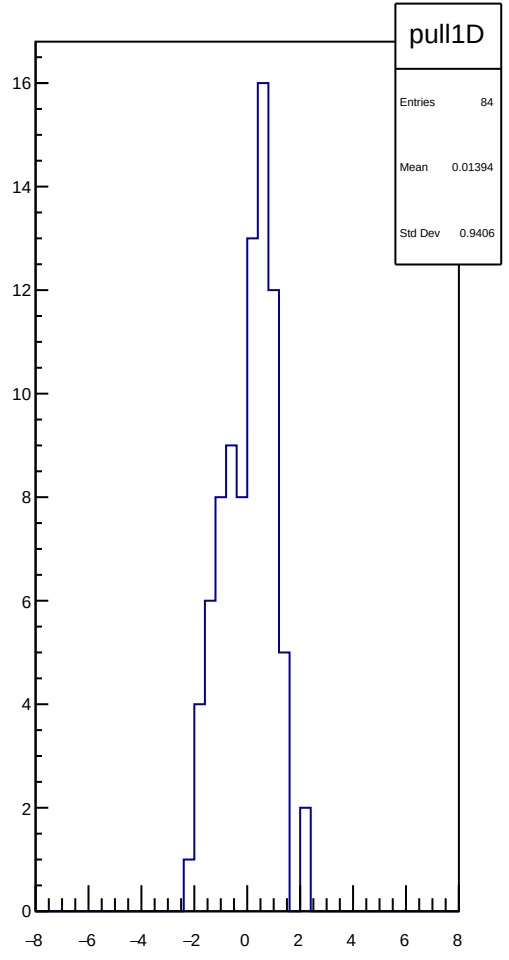

asym_atr_avg_reg_correction_rms vs run
χ^2 / ndf 1.117e+04 / 83
p0 4246 ± 3.334
5500
5000
4500
4000
3500

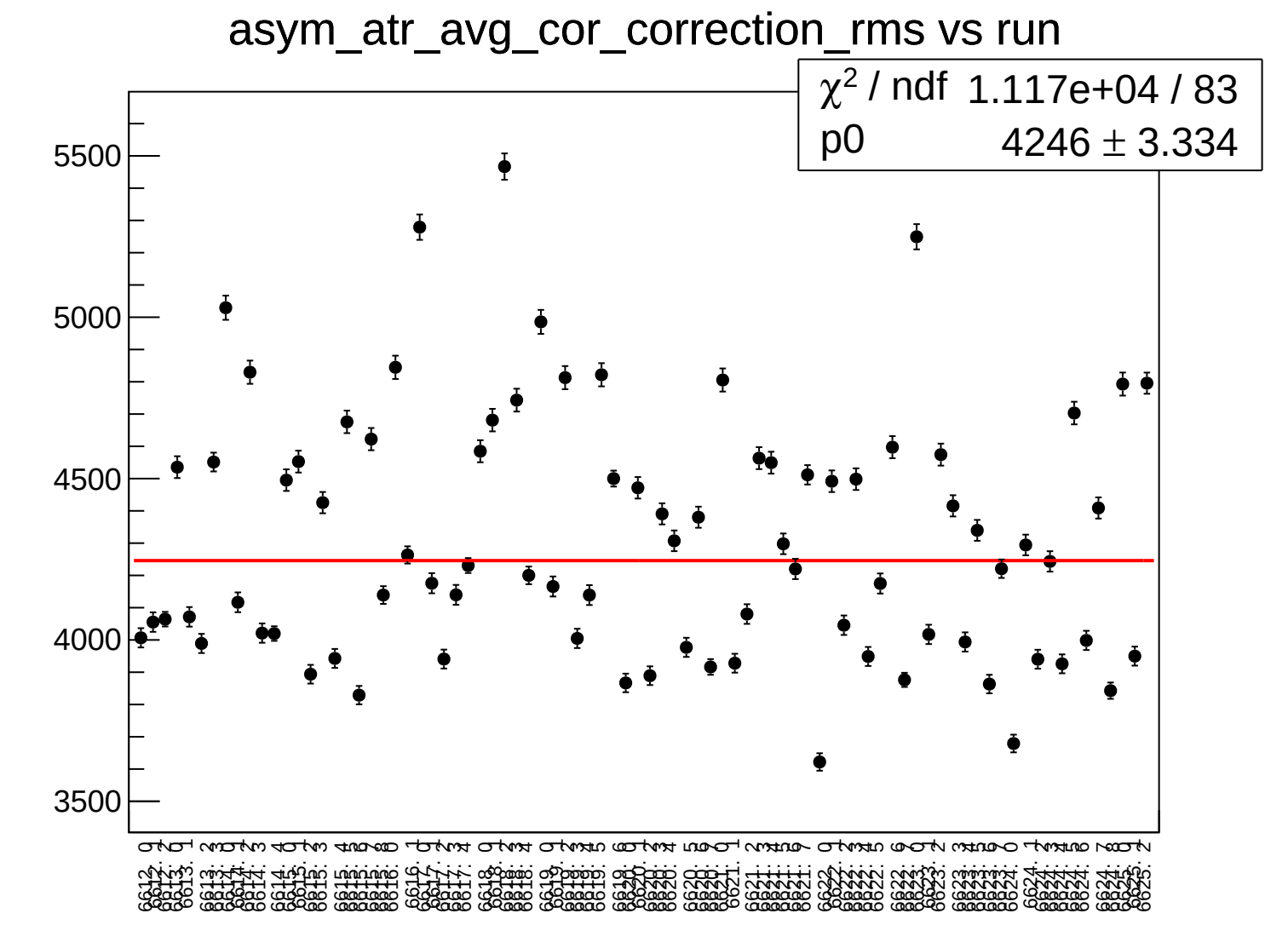

cor_asym_atr_avg_mean vs run
χ² / ndf 72.5 / 83
p0 2132 ± 2163
pull
Entries 84
Mean 49.32
Std Dev 106.5

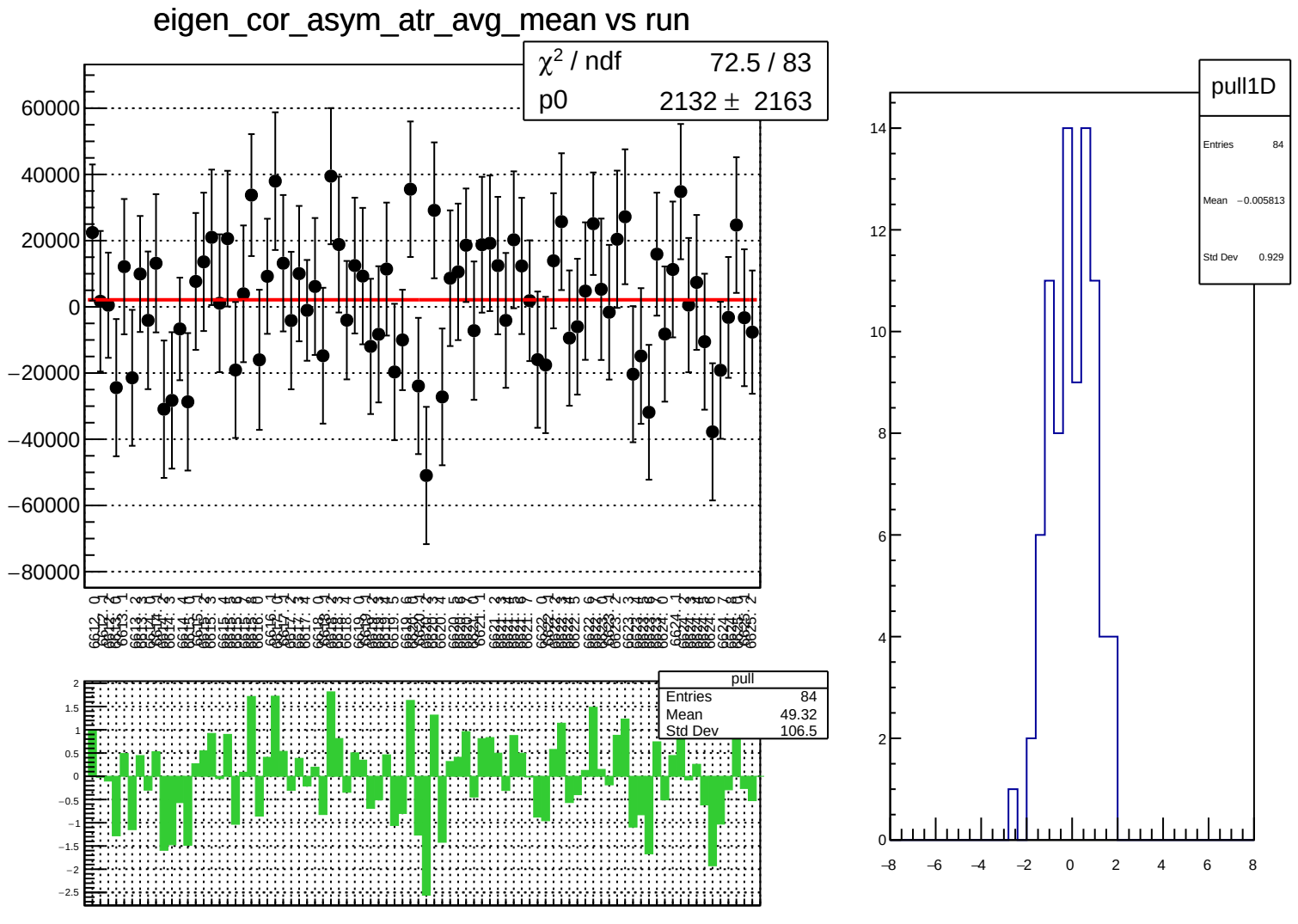

pull1D
Entries 84
Mean −0.005813
Std Dev 0.929

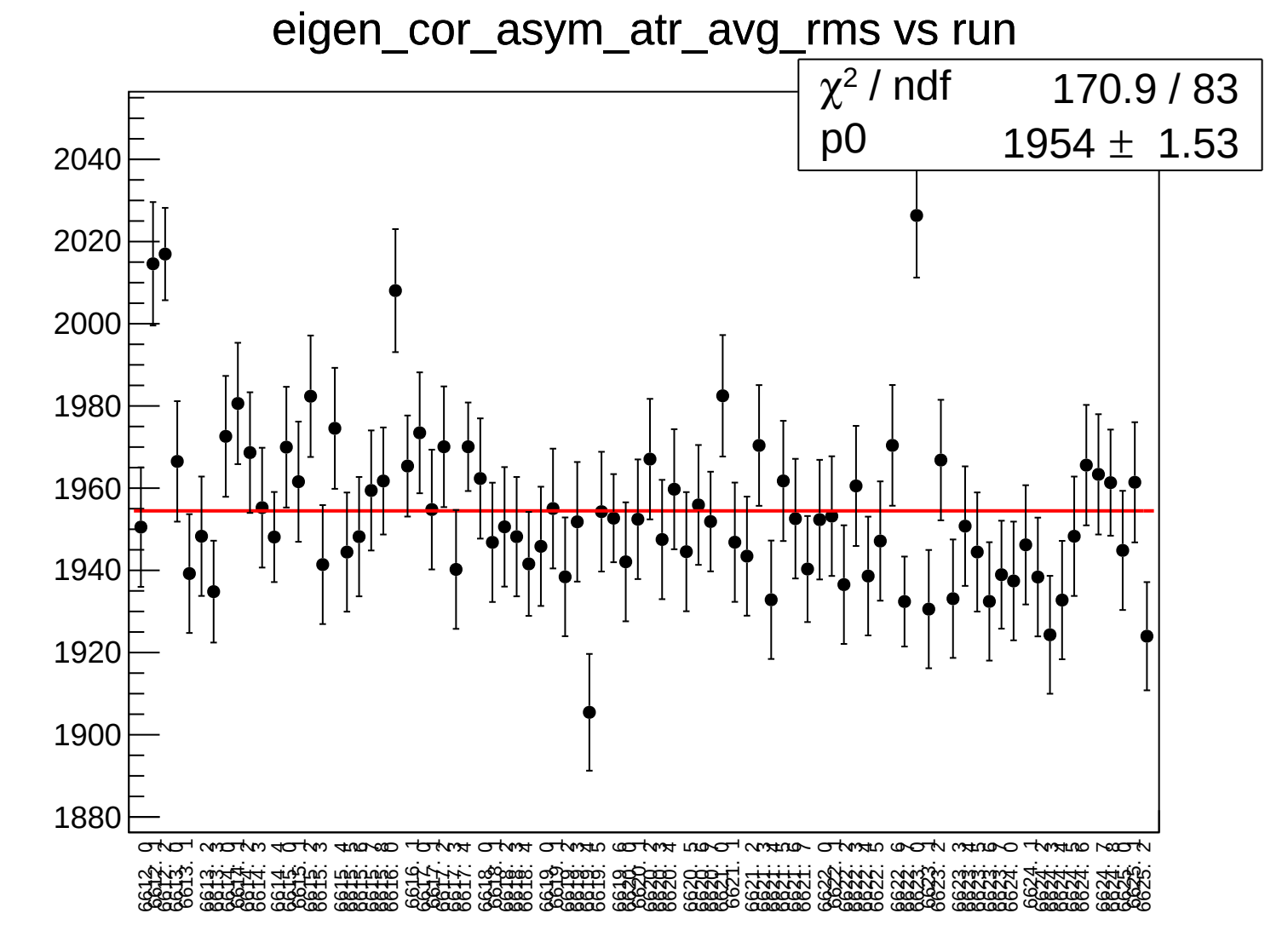

cor_asym_atr_avg_rms vs run
χ² / ndf 170.9 / 83
p0 1954 ± 1.53
2040
2020
2000
1980
1960
1940
1920
1900
1880

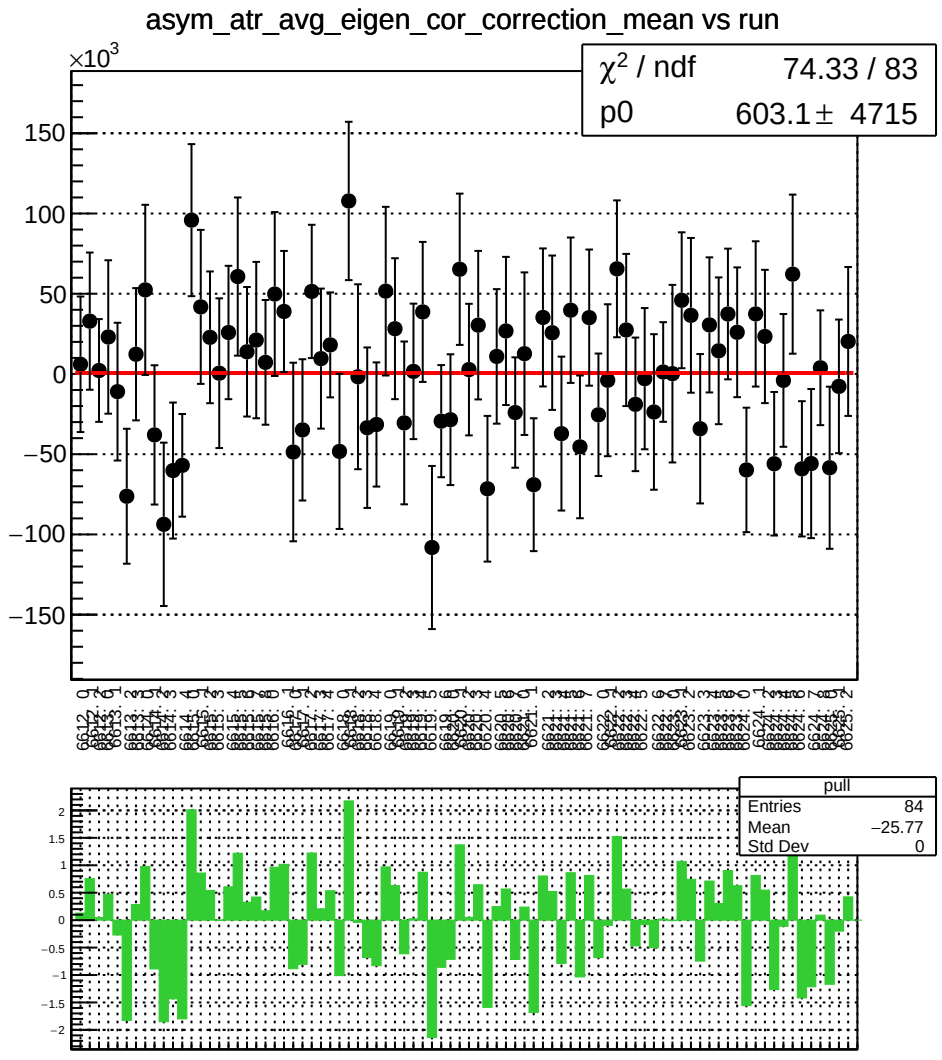

asym_atr_avg_cor_correction_mean vs run
χ^2 / ndf 74.33 / 83
p0 603.1 ± 4715
×10^3
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −25.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

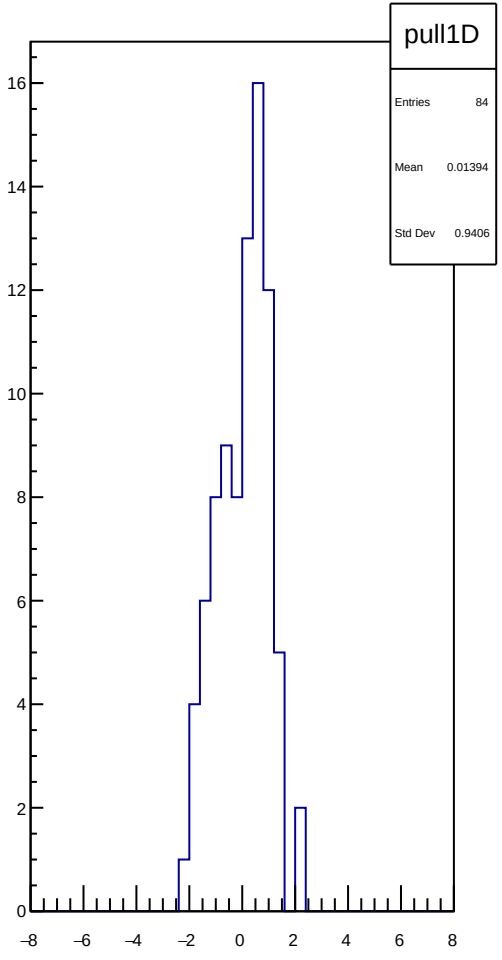

pull1D
Entries 84
Mean 0.01394
Std Dev 0.9406
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

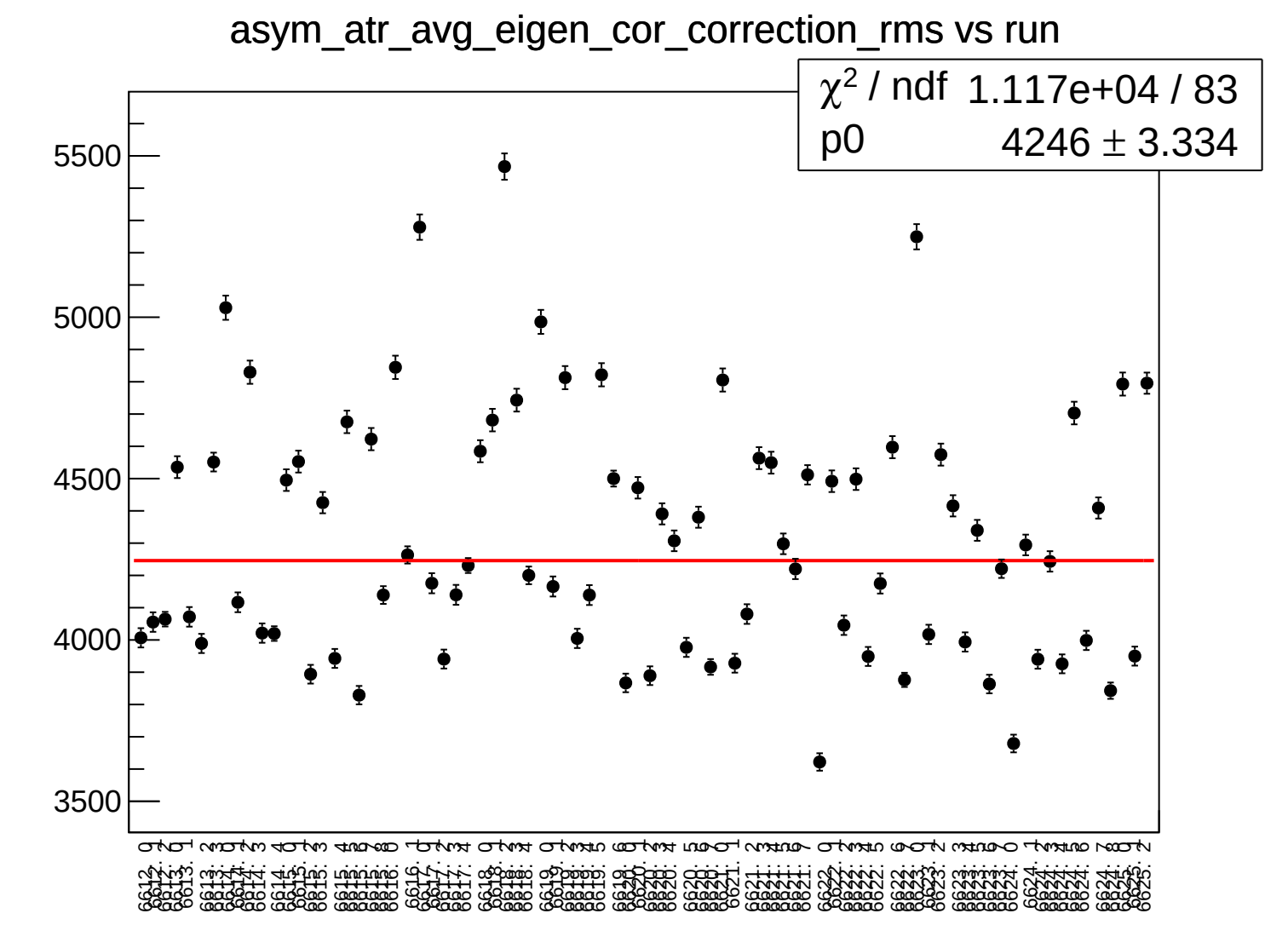

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 1.117e+04 / 83
p0 4246 ± 3.334
5500
5000
4500
4000
3500

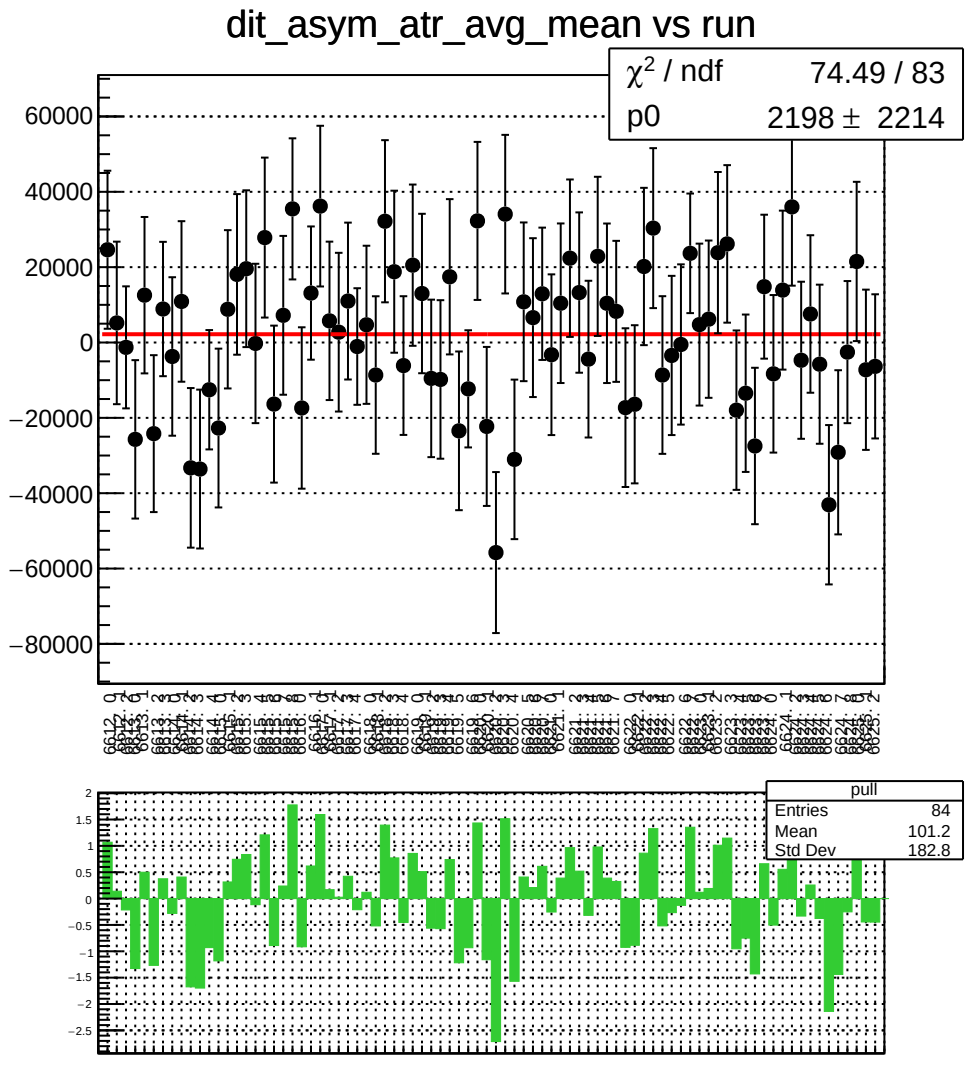

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 72.5 / 83
p0 2132 ± 2163
pull
Entries 84
Mean 49.32
Std Dev 106.5
pull1D
Entries 84
Mean −0.005813
Std Dev 0.929

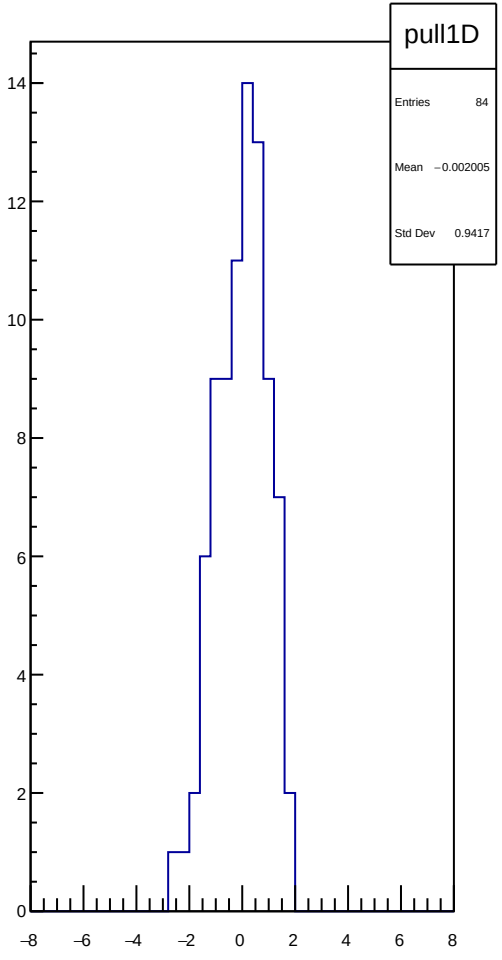

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 170.9 / 83
p0 1954 ± 1.53
2040
2020
2000
1980
1960
1940
1920
1900
1880

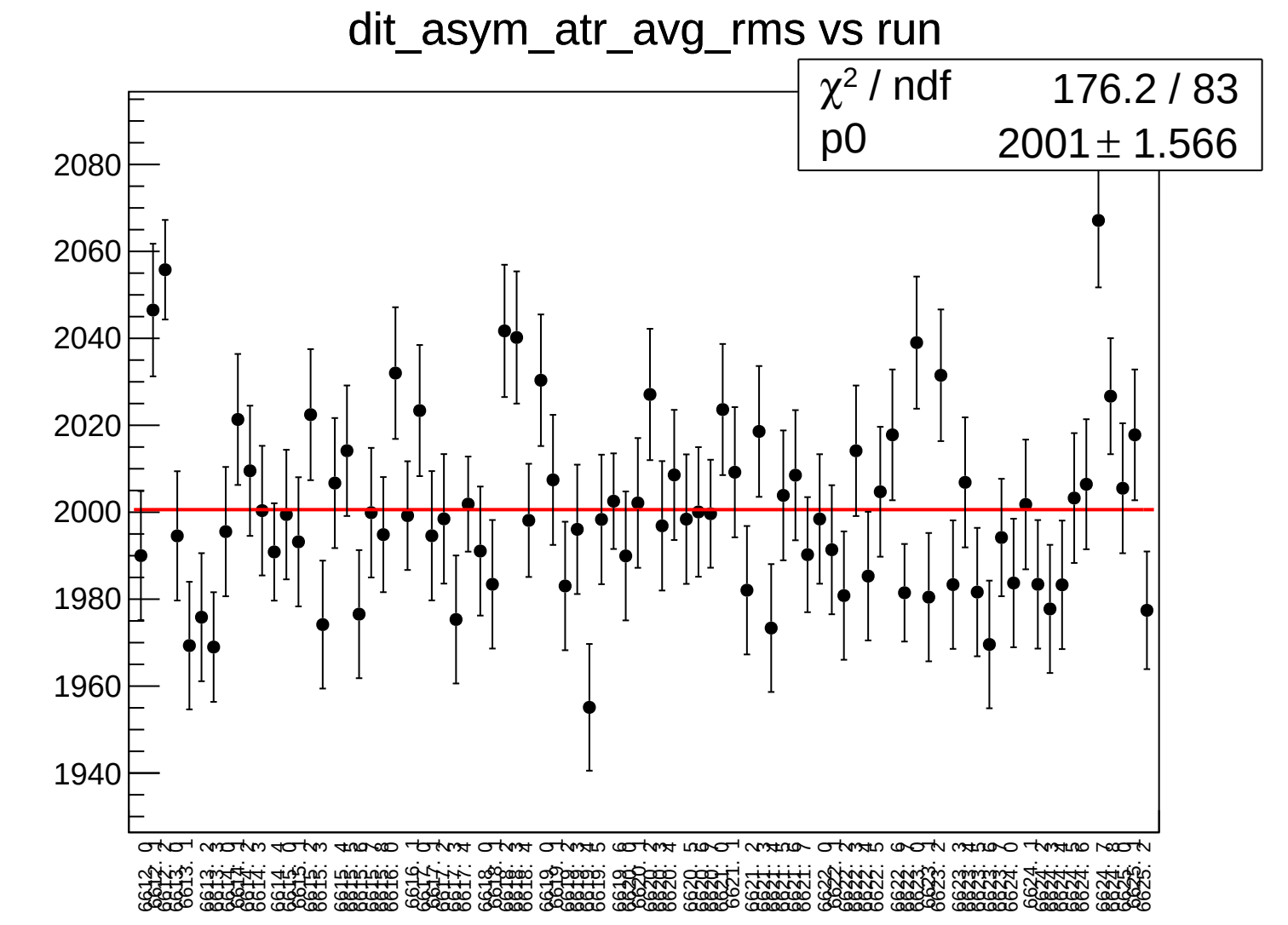

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.33 / 83
p0 603.1 ± 4715
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −25.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

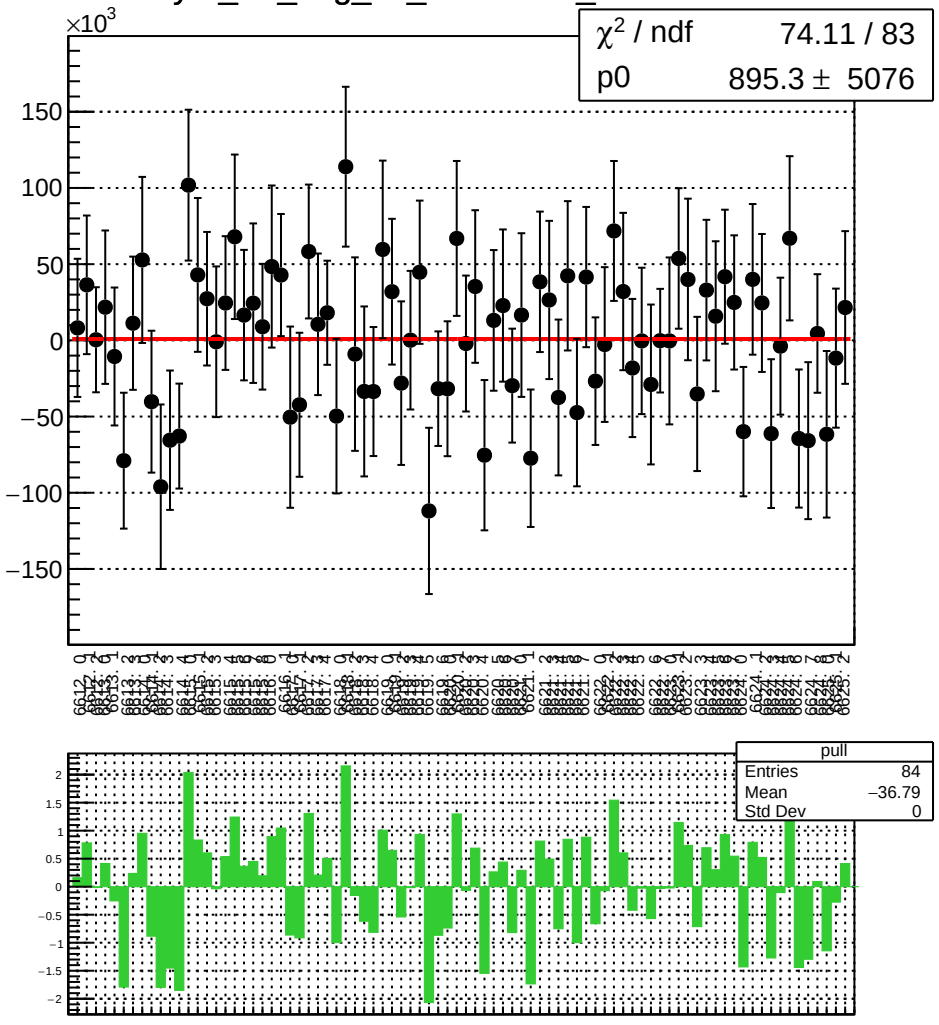

pull1D
Entries 84
Mean 0.01394
Std Dev 0.9406
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

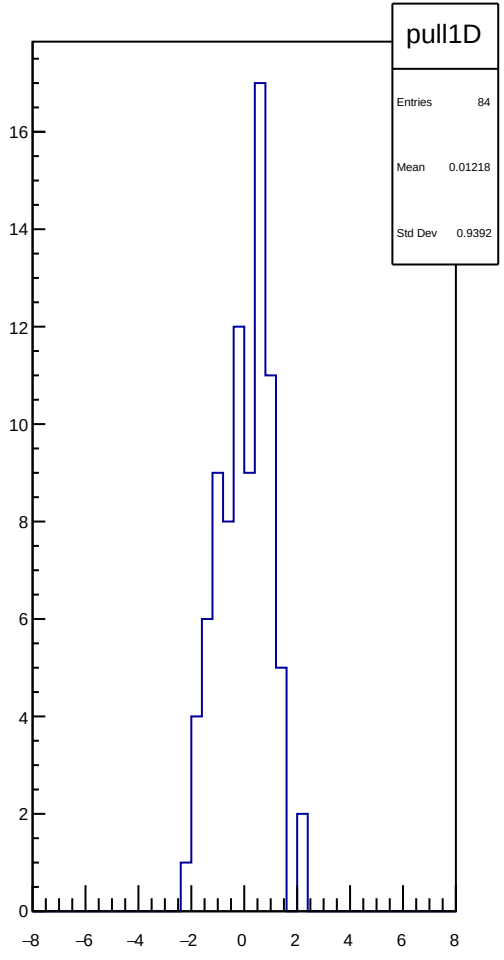

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.117e+04 / 83
p0 4246 ± 3.334
5500
5000
4500
4000
3500

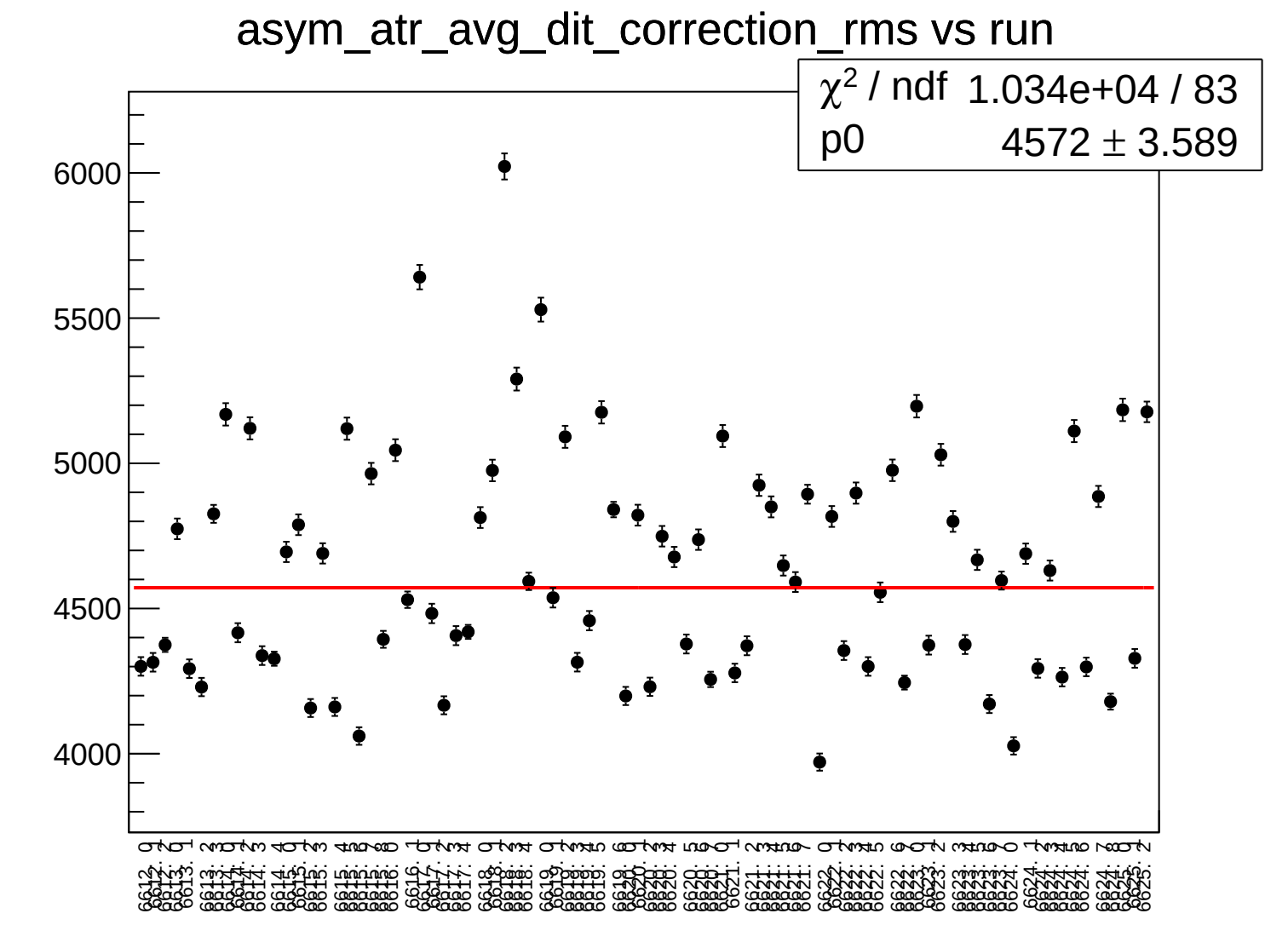

dit_asym_atr_avg_mean vs run
χ² / ndf 74.49 / 83
p0 2198 ± 2214
pull
Entries 84
Mean 101.2
Std Dev 182.8

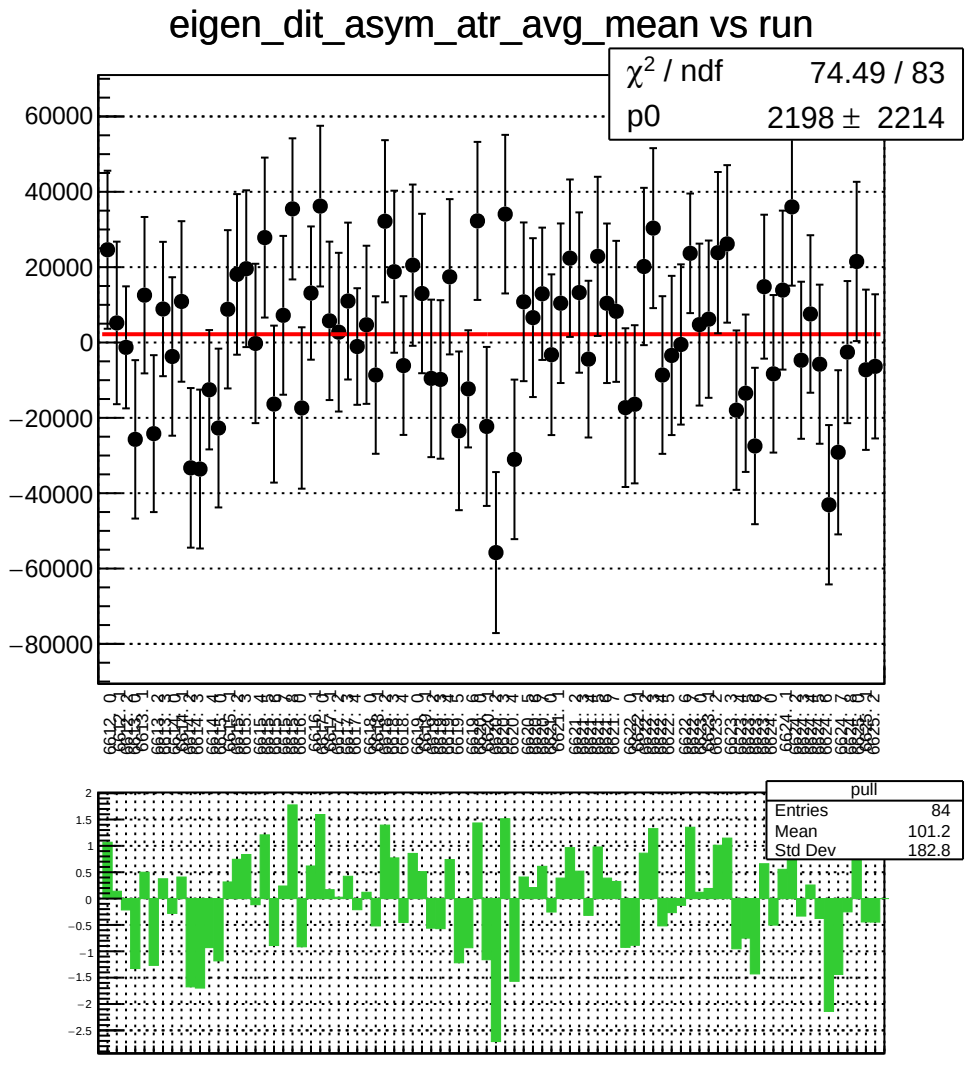

pull1D
Entries 84
Mean −0.002005
Std Dev 0.9417

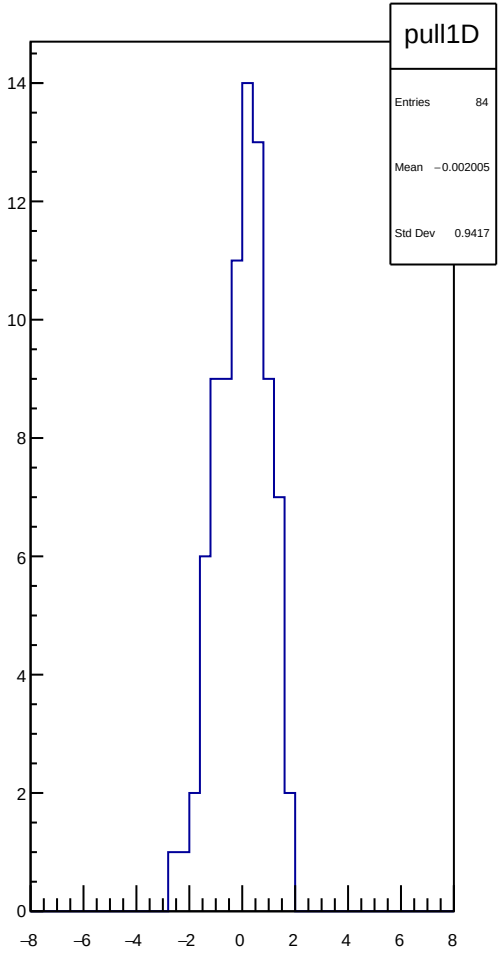

dit_asym_atr_avg_rms vs run
χ^2 / ndf 176.2 / 83
p0 2001 ± 1.566
2080
2060
2040
2020
2000
1980
1960
1940

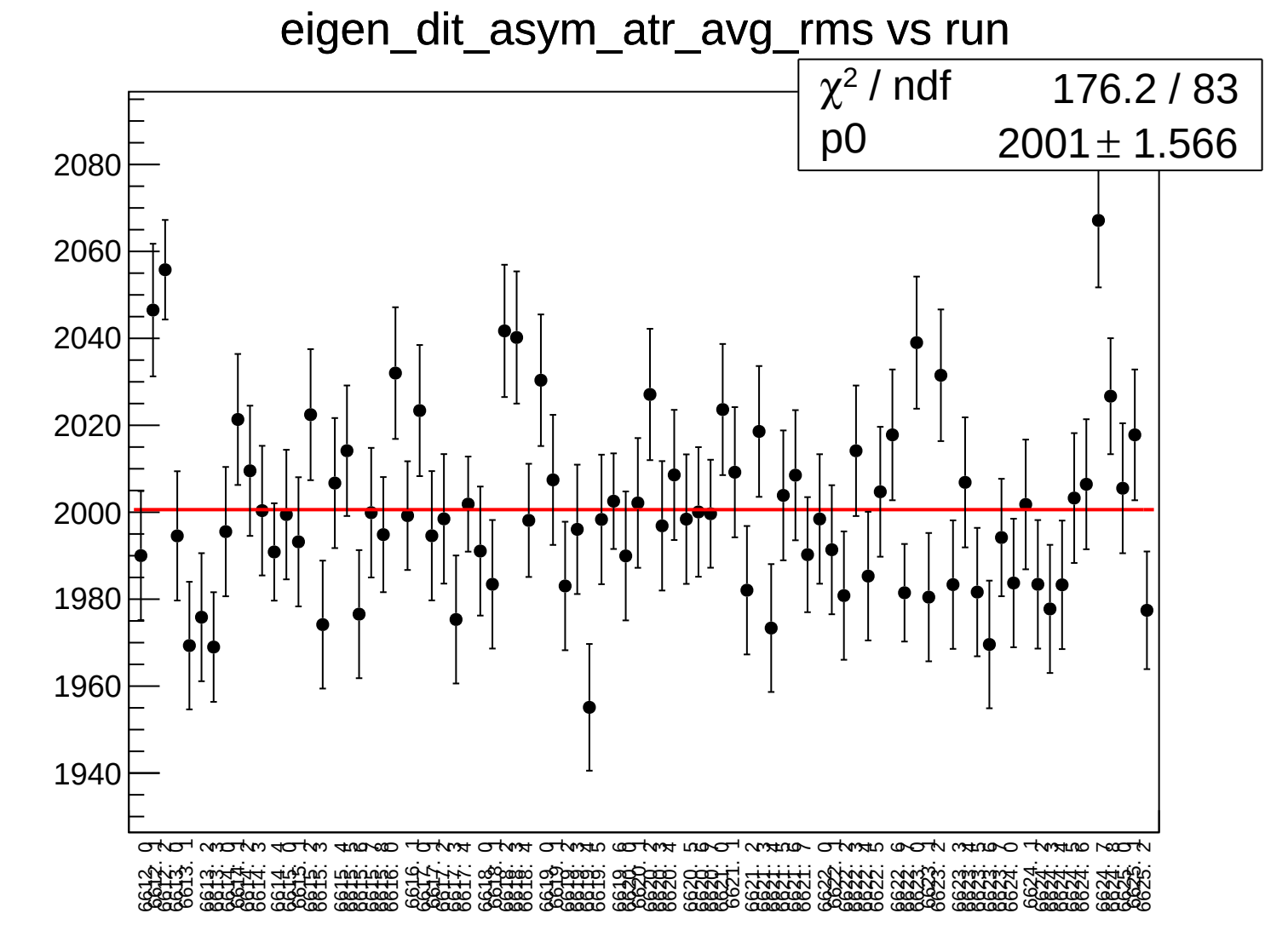

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 74.11 / 83
p0 895.3 ± 5076
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −36.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

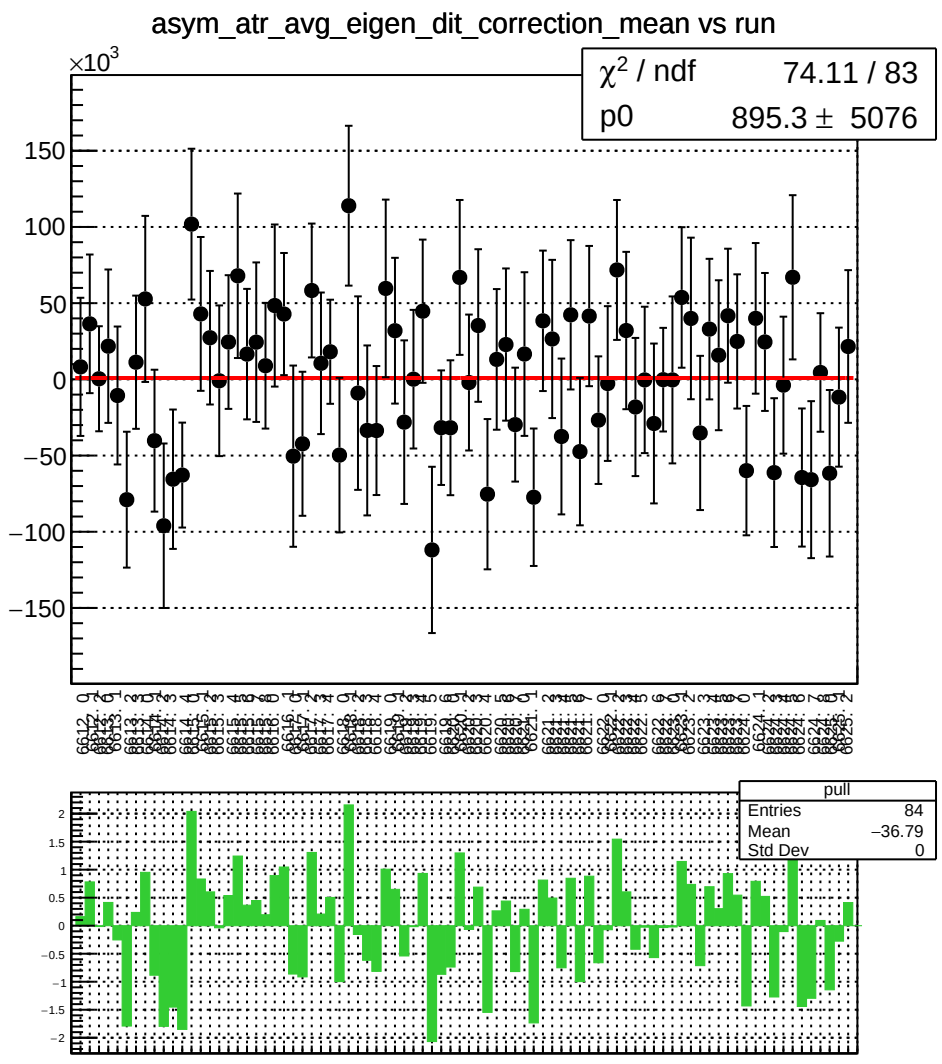

pull1D
Entries 84
Mean 0.01218
Std Dev 0.9392
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

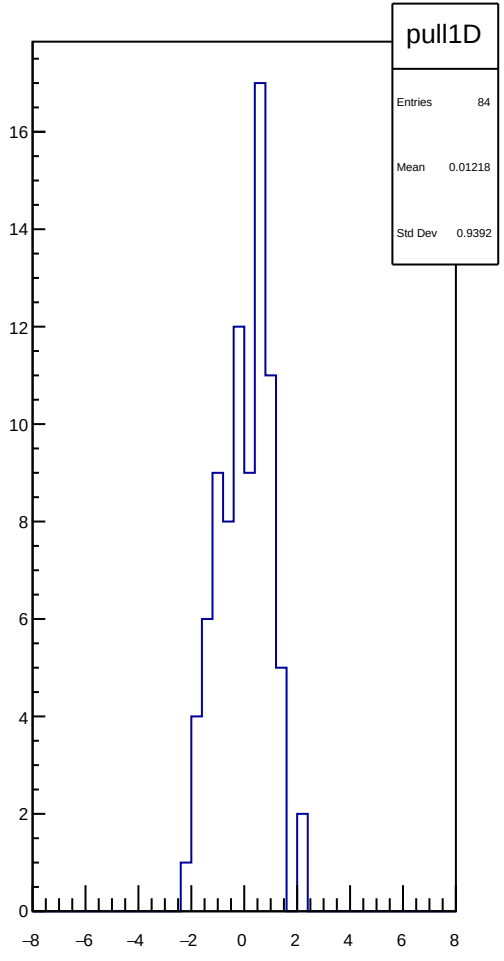

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 1.034e+04 / 83
p0 4572 ± 3.589
6000
5500
5000
4500
4000

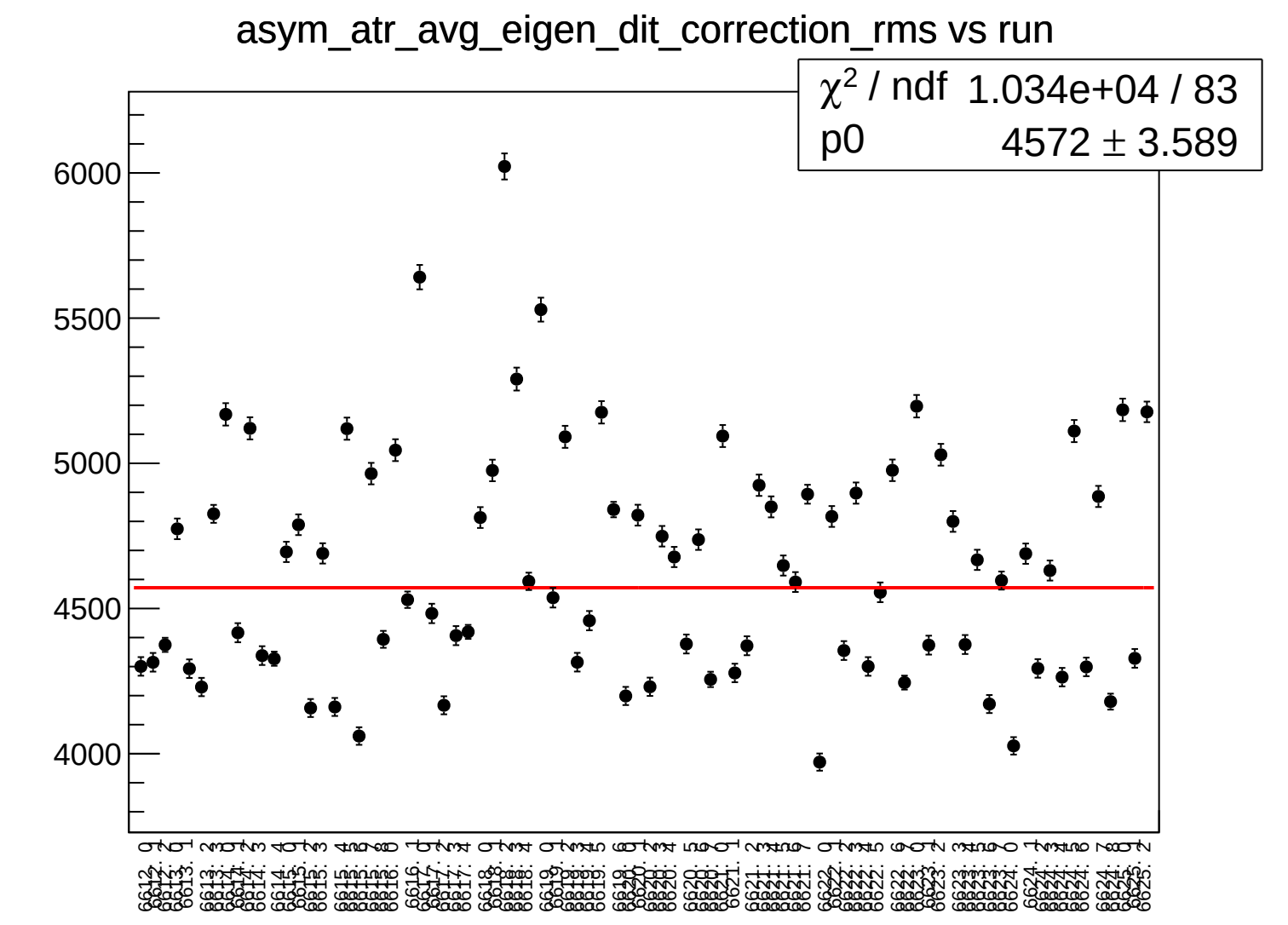

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 74.49 / 83
p0 2198 ± 2214
pull
Entries 84
Mean 101.2
Std Dev 182.8

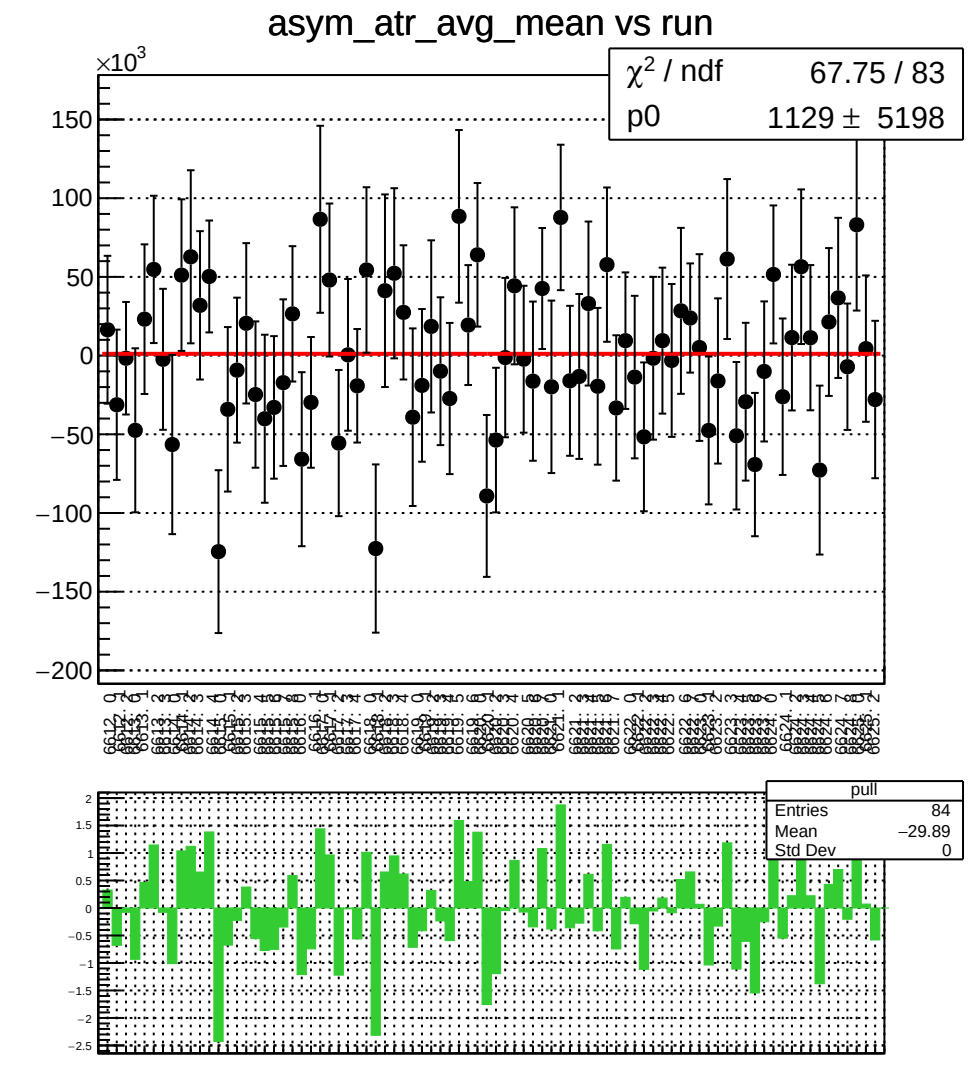

pull1D
Entries 84
Mean −0.002005
Std Dev 0.9417

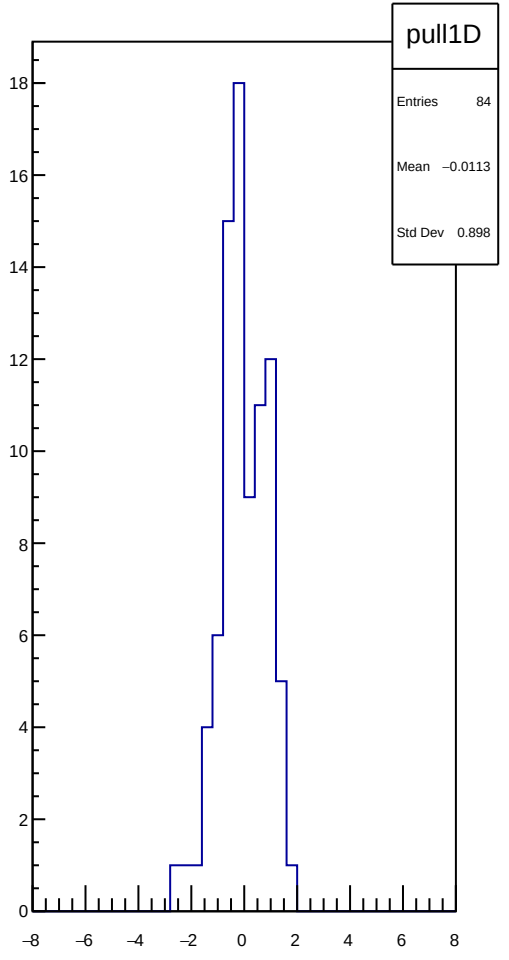

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 176.2 / 83
p0 2001 ± 1.566
2080
2060
2040
2020
2000
1980
1960
1940

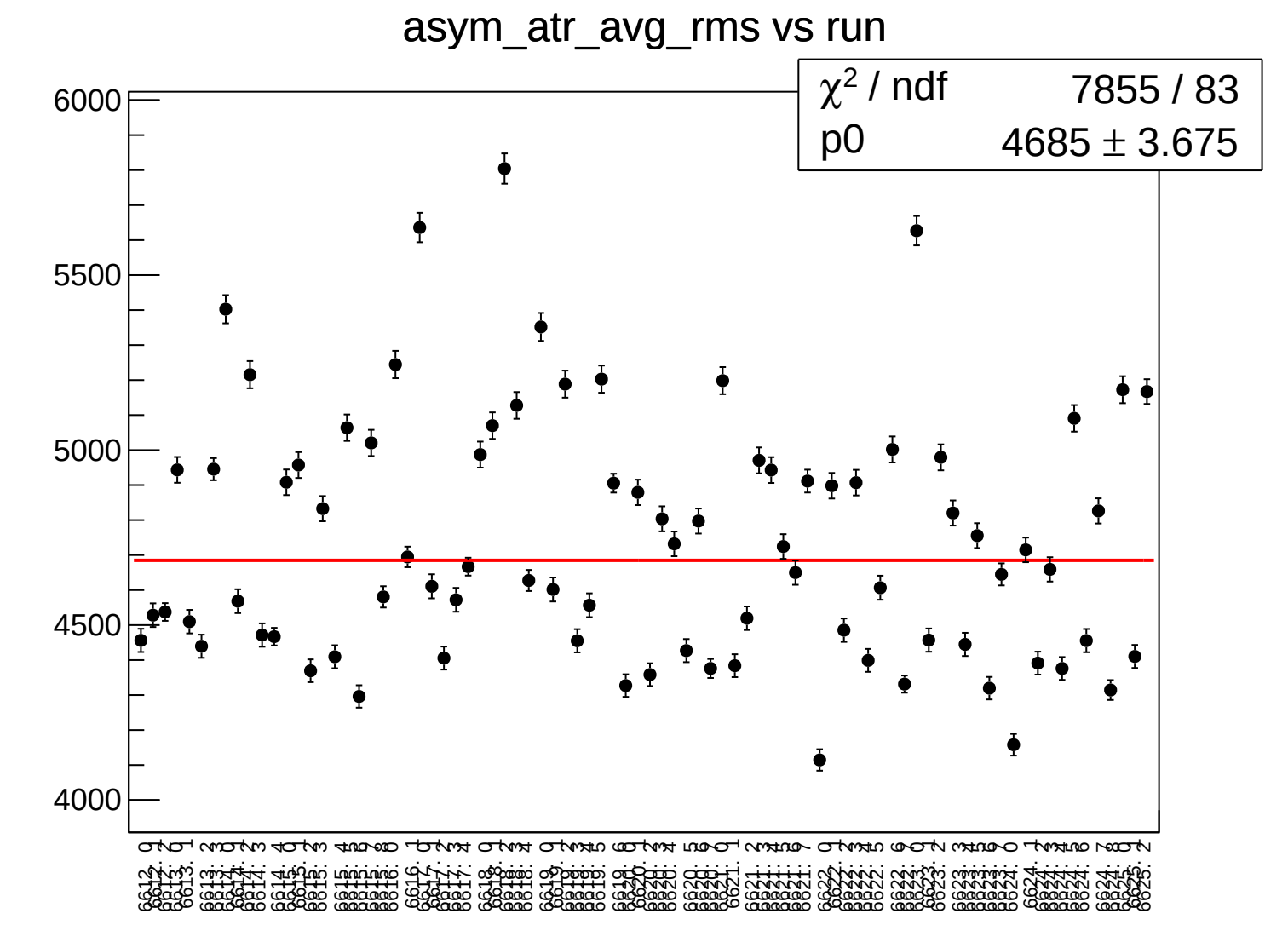

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 74.11 / 83
p0 895.3 ± 5076
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −36.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

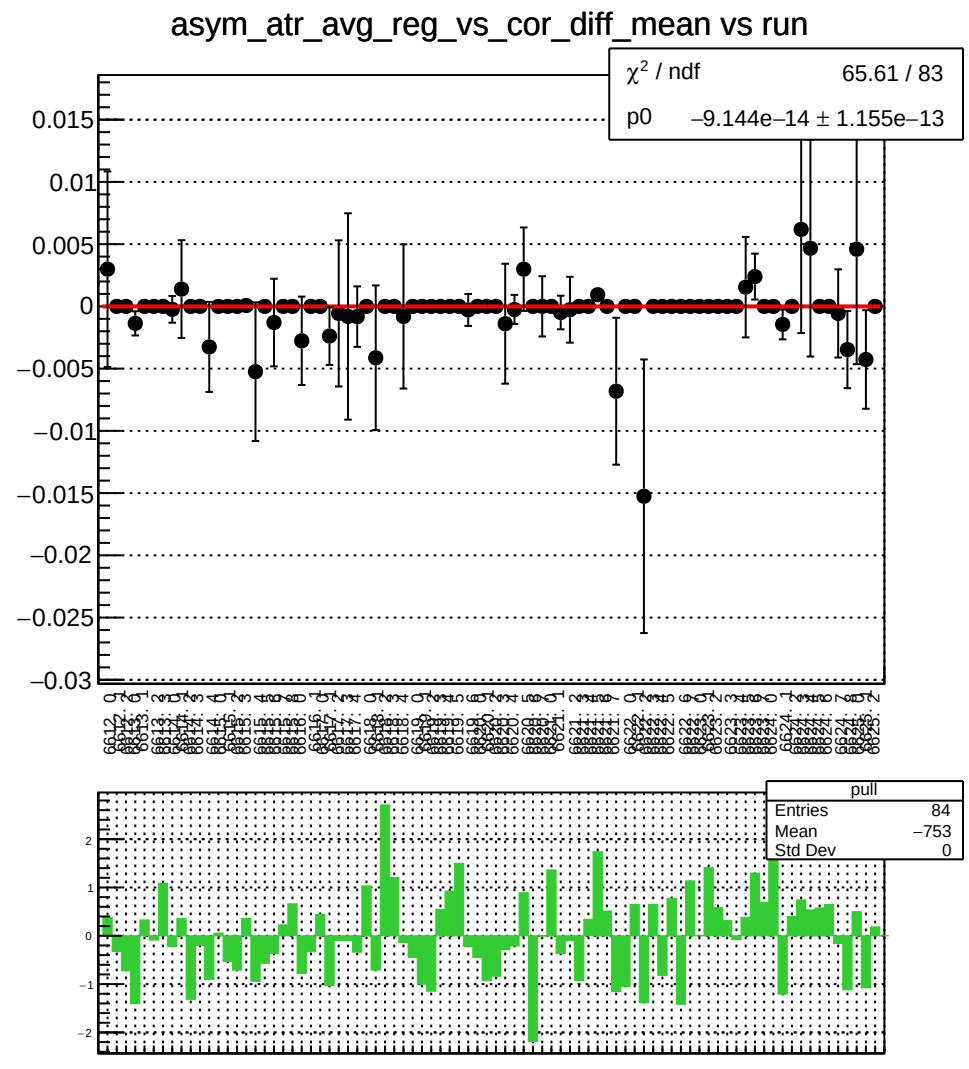

pull1D
Entries 84
Mean 0.01218
Std Dev 0.9392
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

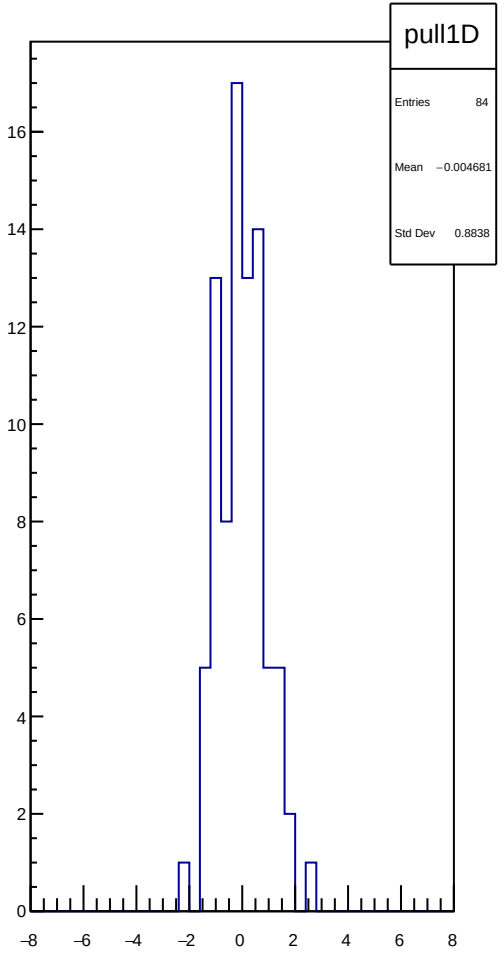

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.034e+04 / 83
p0 4572 ± 3.589
6000
5500
5000
4500
4000

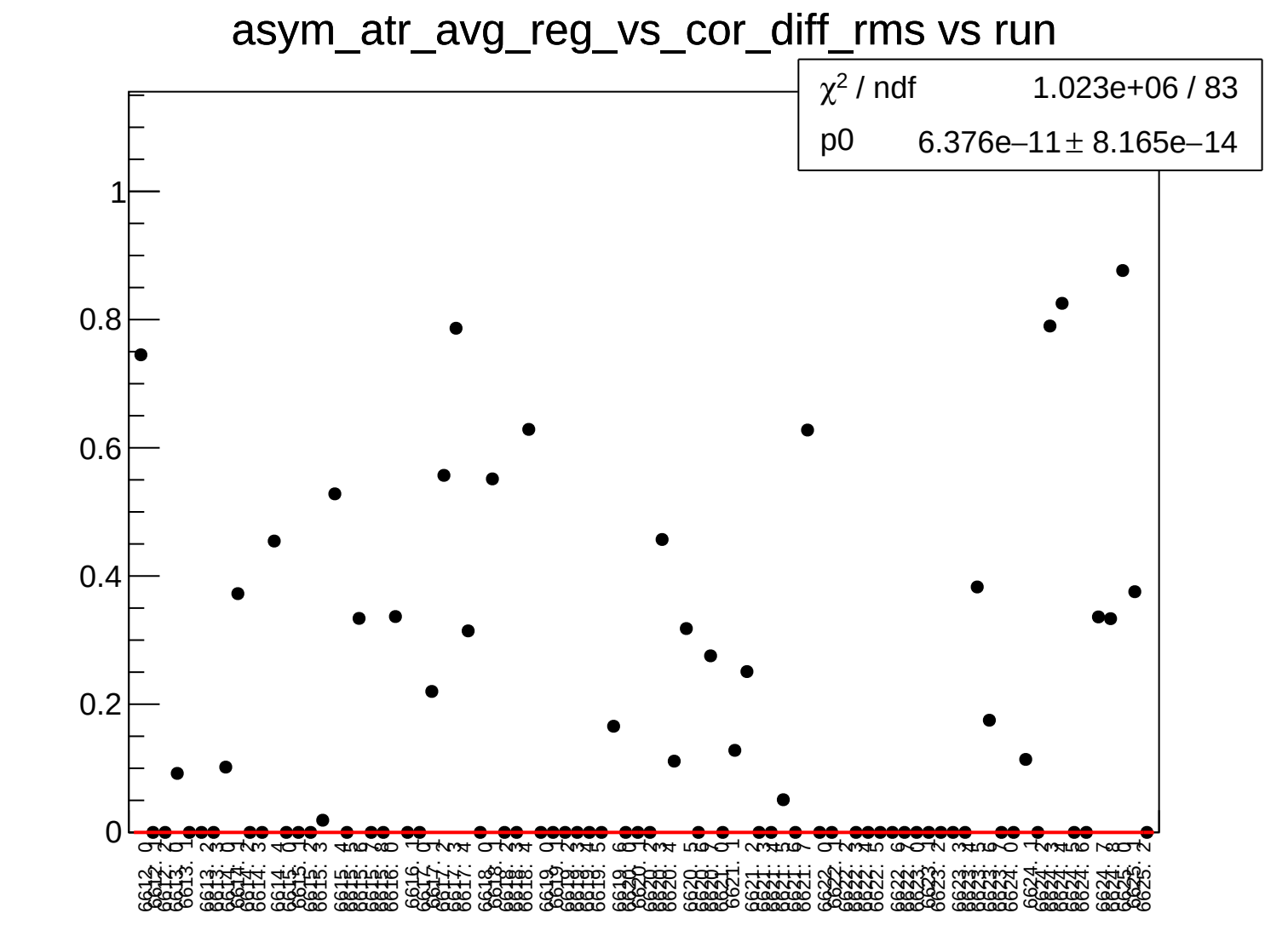

asym_atr_avg_mean vs run
×10^3
χ² / ndf 67.75 / 83
p0 1129 ± 5198
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −29.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

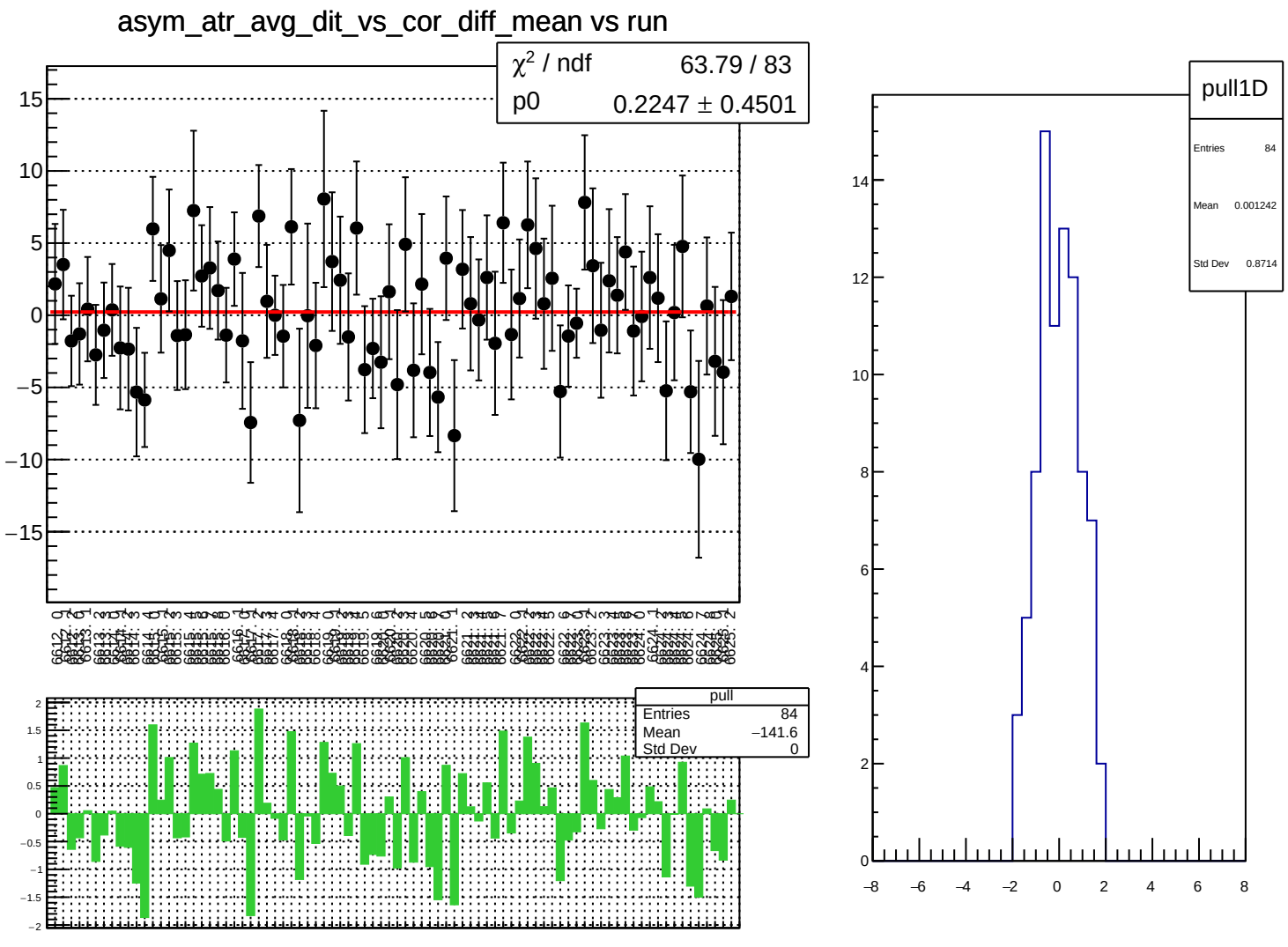

pull1D
Entries 84
Mean −0.0113
Std Dev 0.898
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

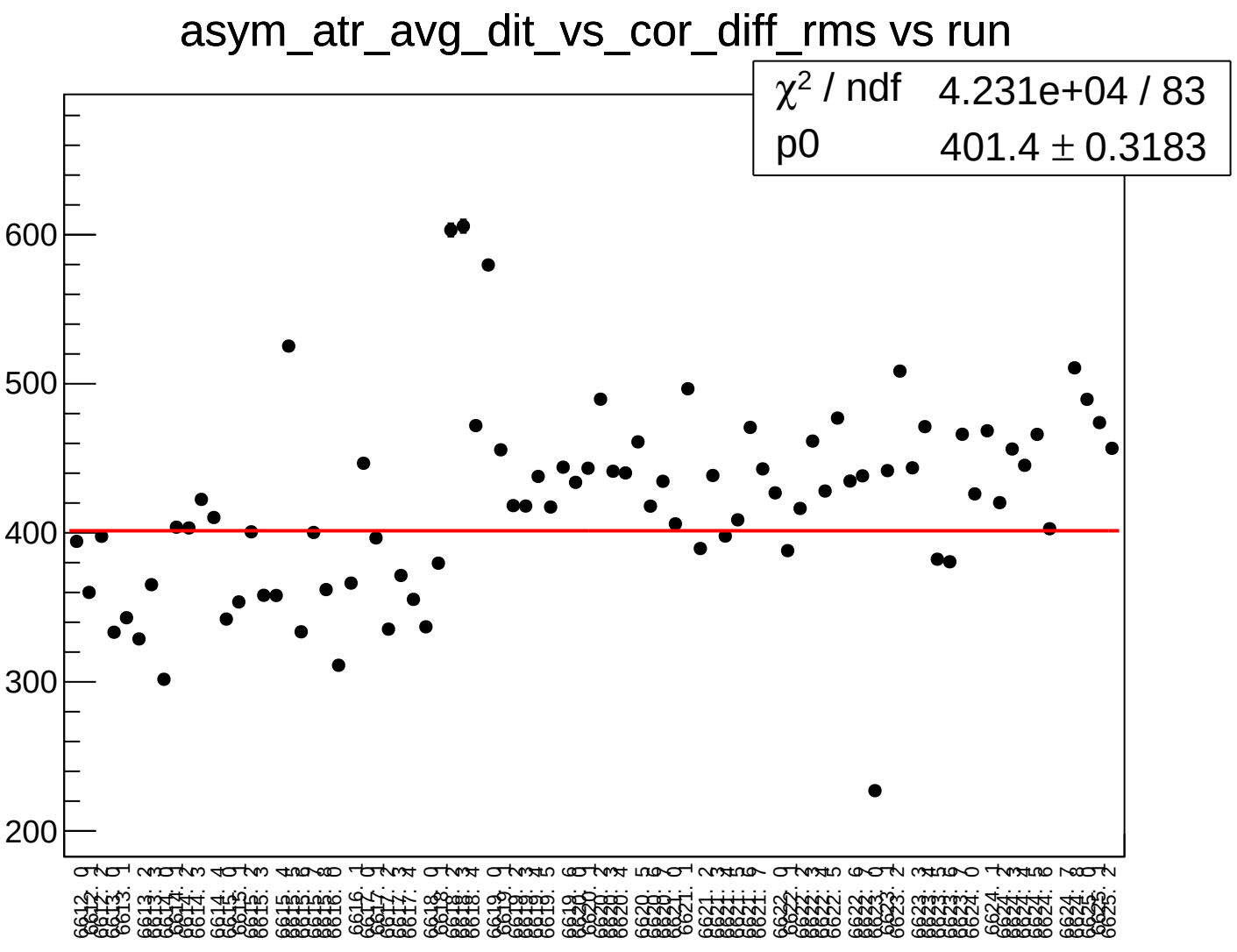

asym_atr_avg_rms vs run
χ² / ndf 7855 / 83
p0 4685 ± 3.675
6000
5500
5000
4500
4000

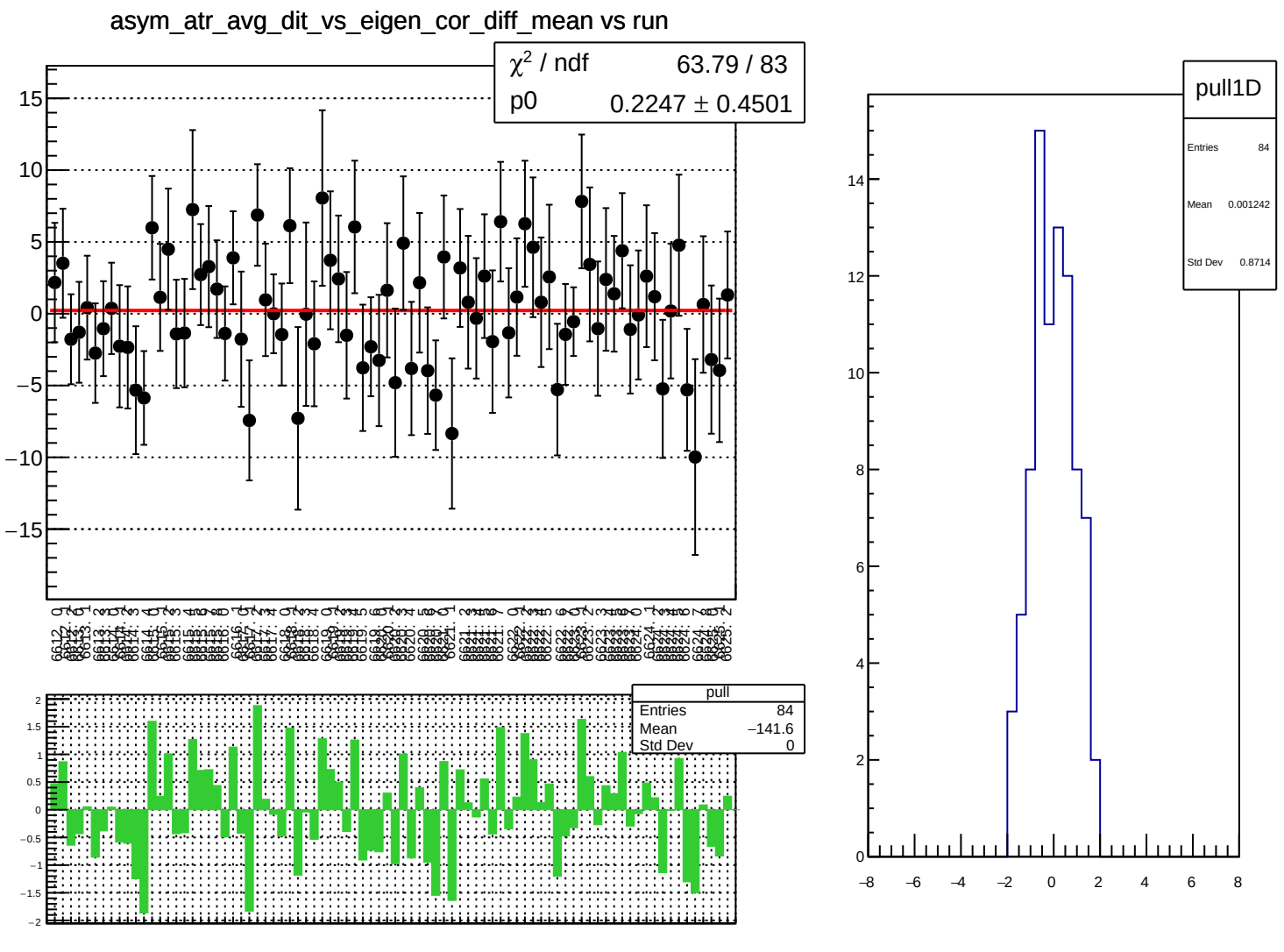

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 65.61 / 83
p0 −9.144e−14 ± 1.155e−13
pull
Entries 84
Mean −753
Std Dev 0

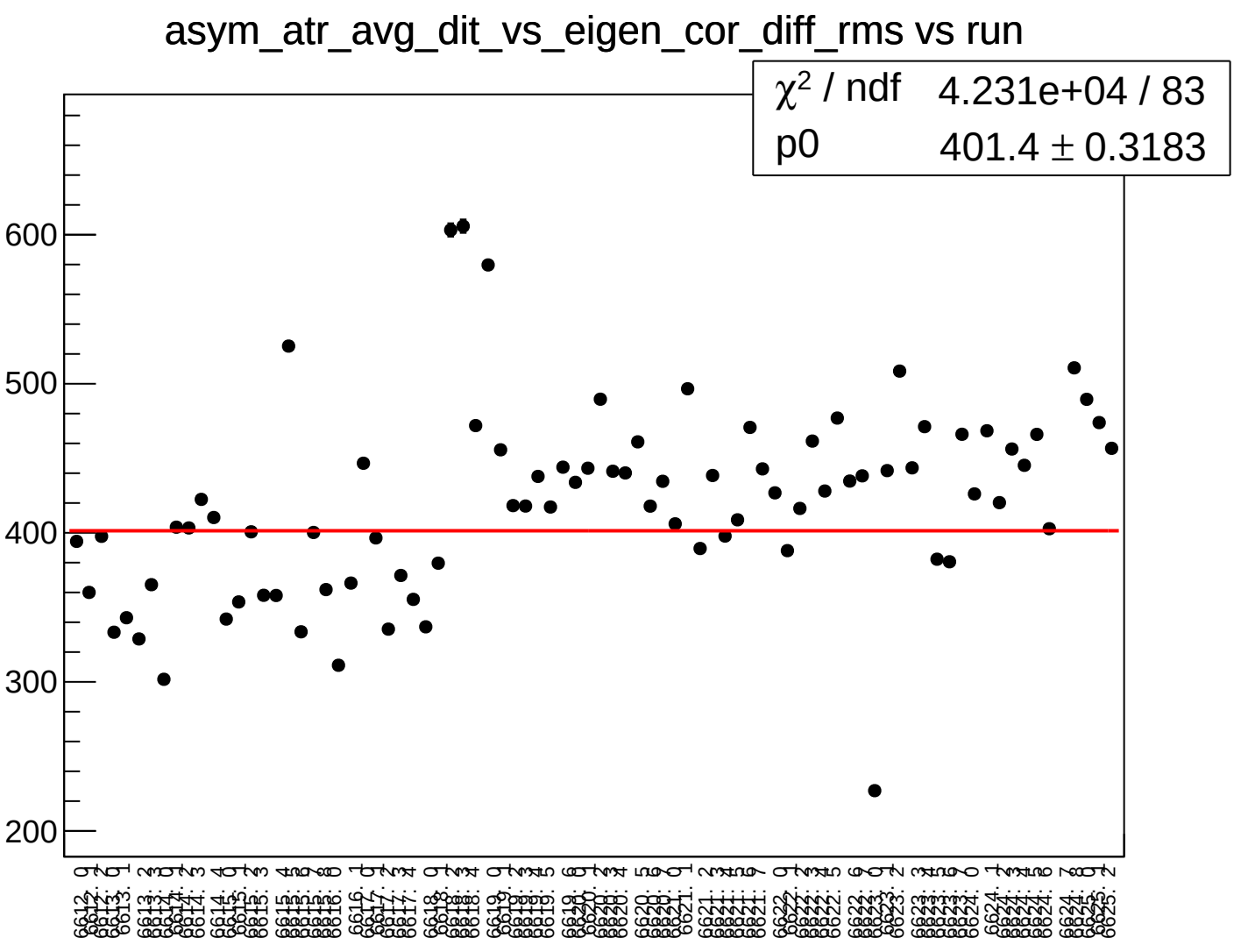

pull1D
Entries 84
Mean −0.004681
Std Dev 0.8838

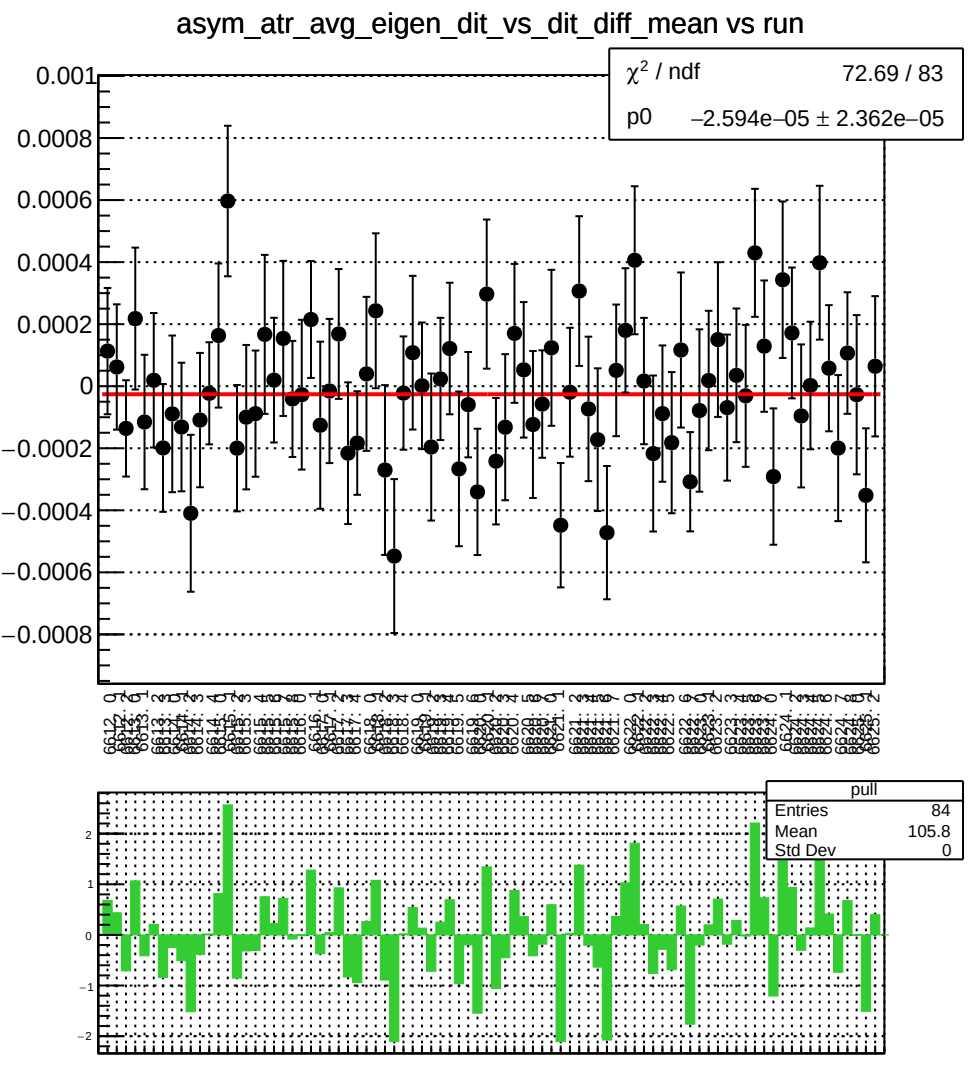

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.023e+06 / 83
p0 6.376e−11 ± 8.165e−14
1
0.8
0.6
0.4
0.2
0

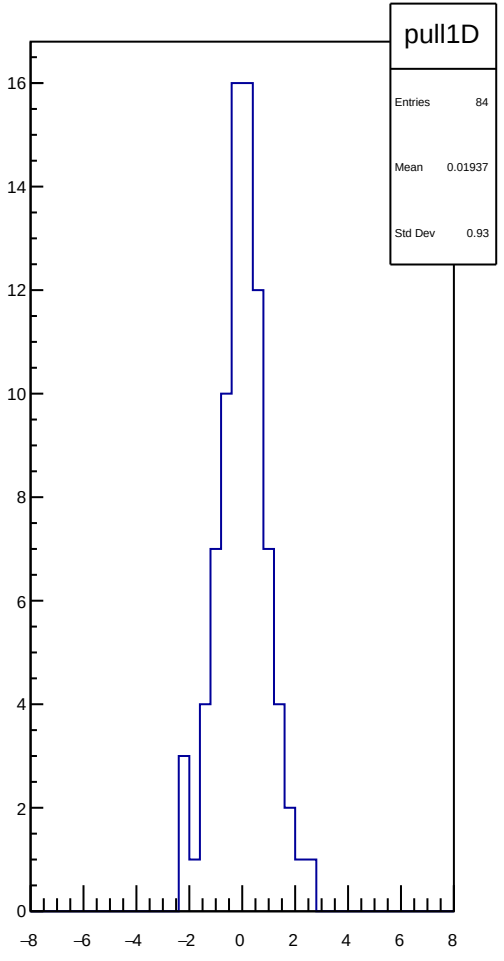

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 63.79 / 83
p0 0.2247 ± 0.4501
pull
Entries 84
Mean −141.6
Std Dev 0
pull1D
Entries 84
Mean 0.001242
Std Dev 0.8714

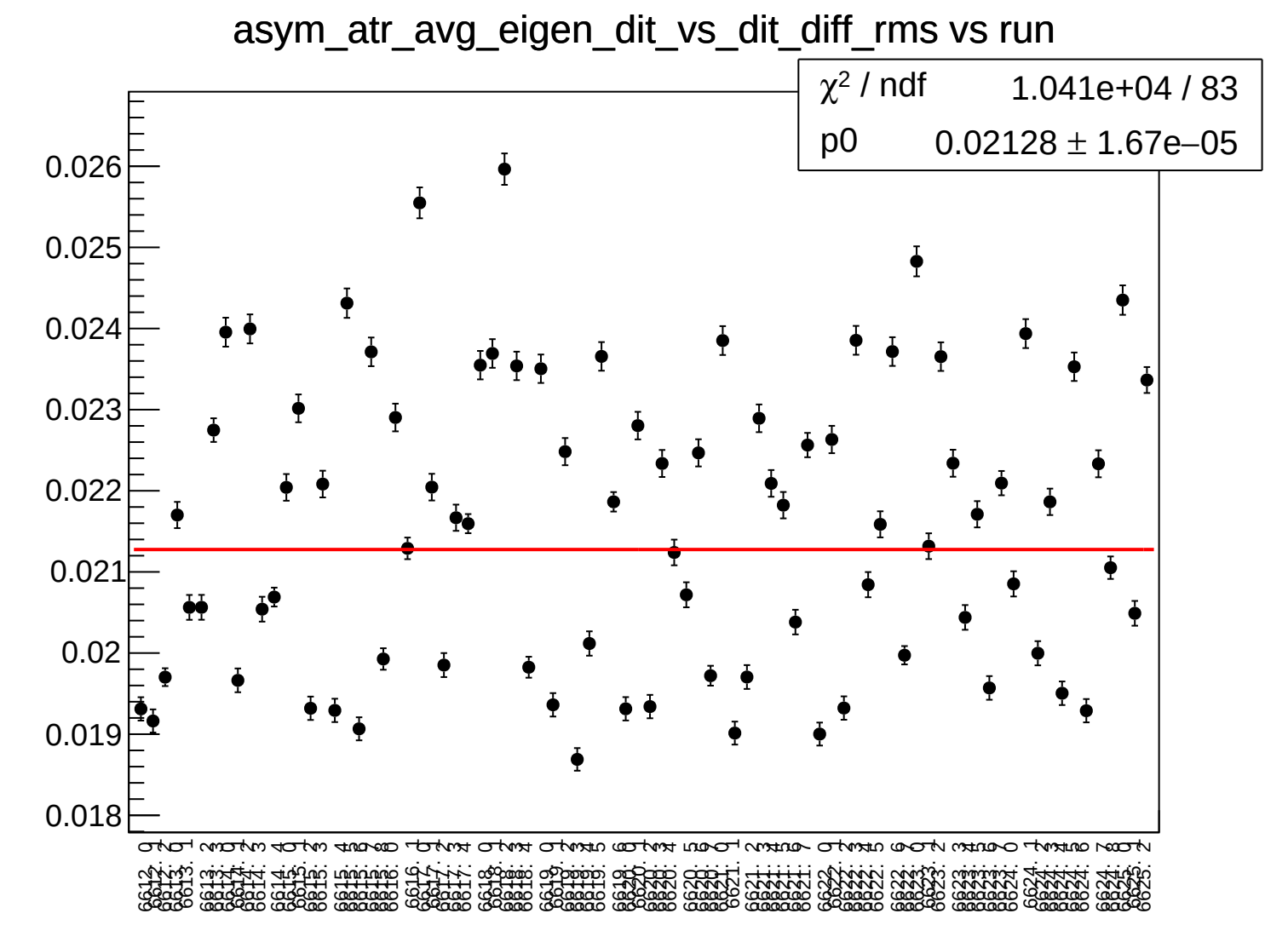

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.231e+04 / 83
p0 401.4 ± 0.3183
600
500
400
300
200

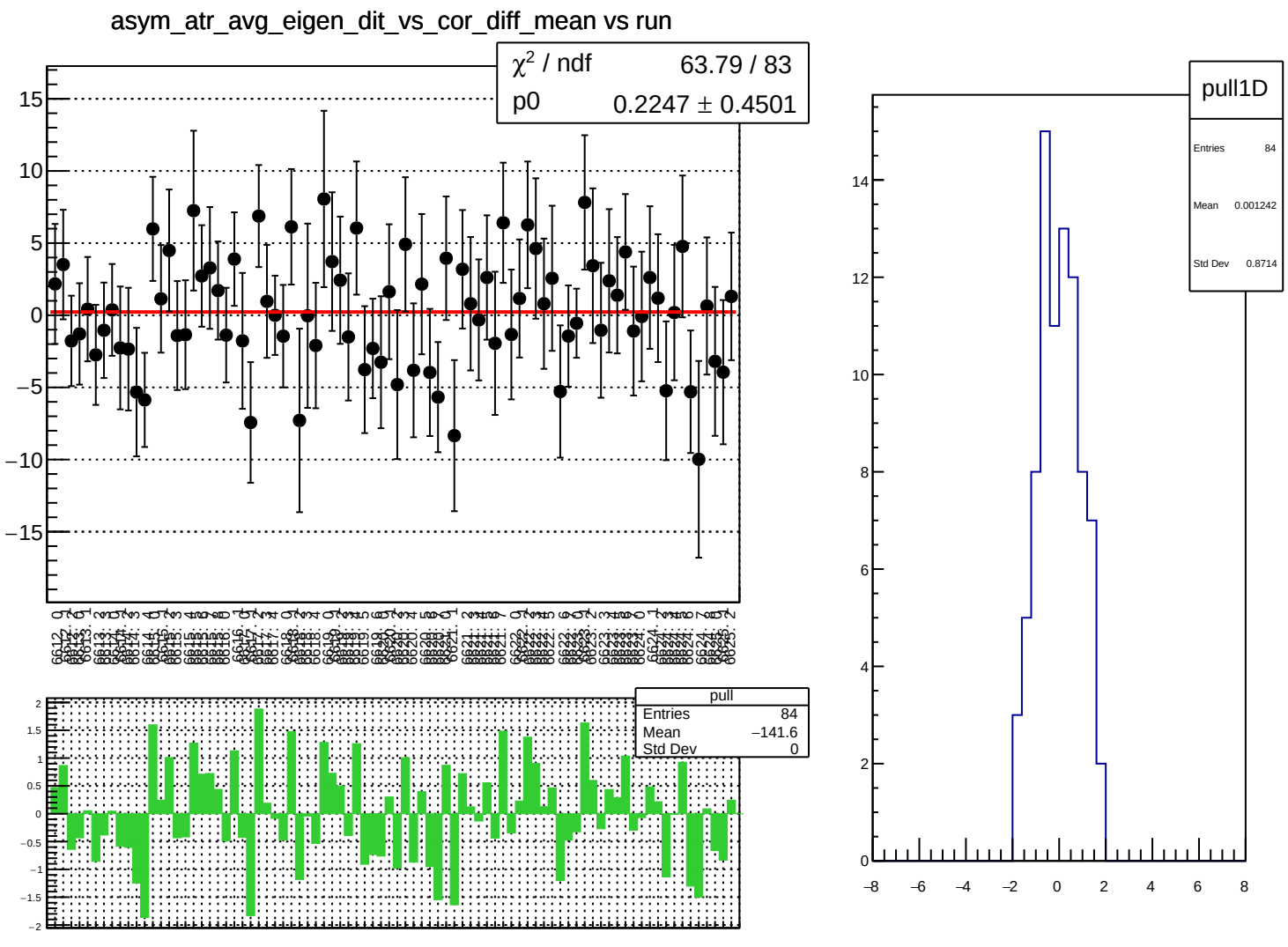

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.79 / 83
p0 0.2247 ± 0.4501
pull
Entries 84
Mean −141.6
Std Dev 0
pull1D
Entries 84
Mean 0.001242
Std Dev 0.8714

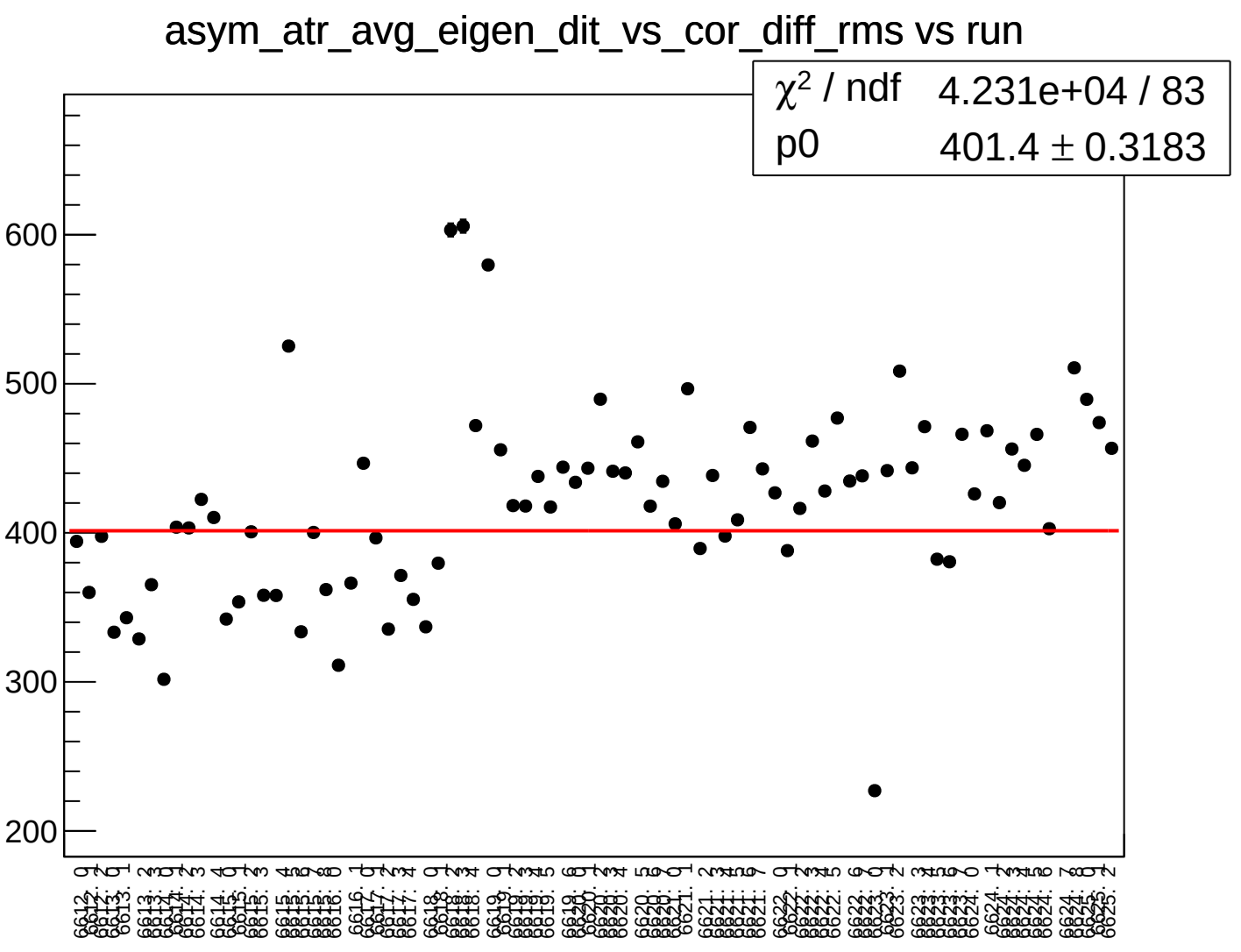

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.231e+04 / 83
p0 401.4 ± 0.3183
600
500
400
300
200

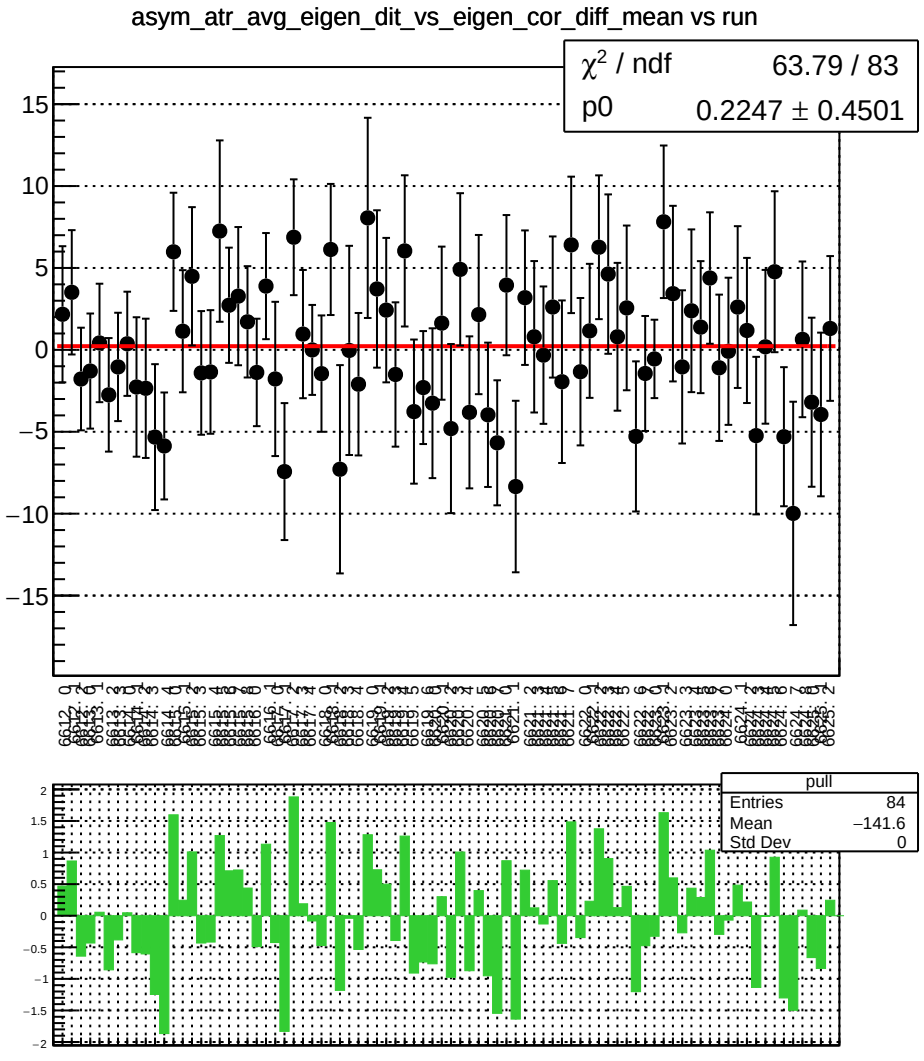

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 72.69 / 83
p0 −2.594e−05 ± 2.362e−05
pull
Entries 84
Mean 105.8
Std Dev 0

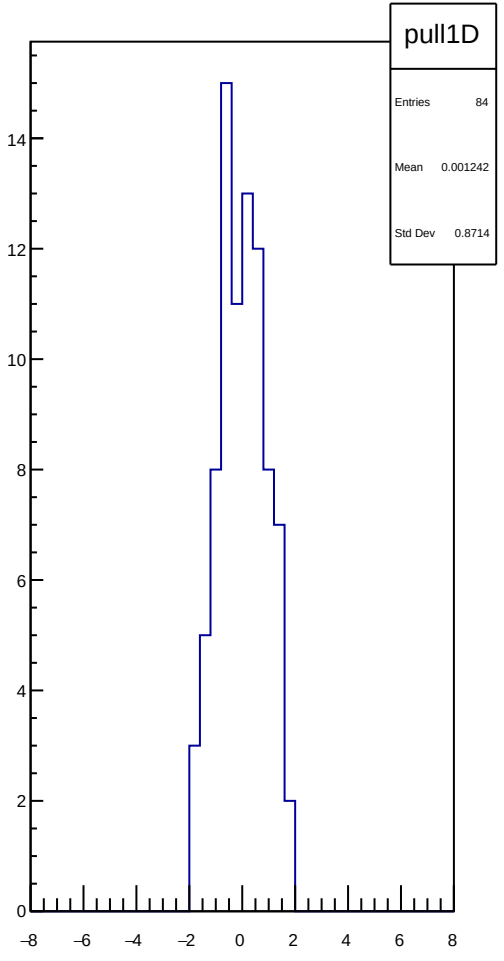

pull1D
Entries 84
Mean 0.01937
Std Dev 0.93

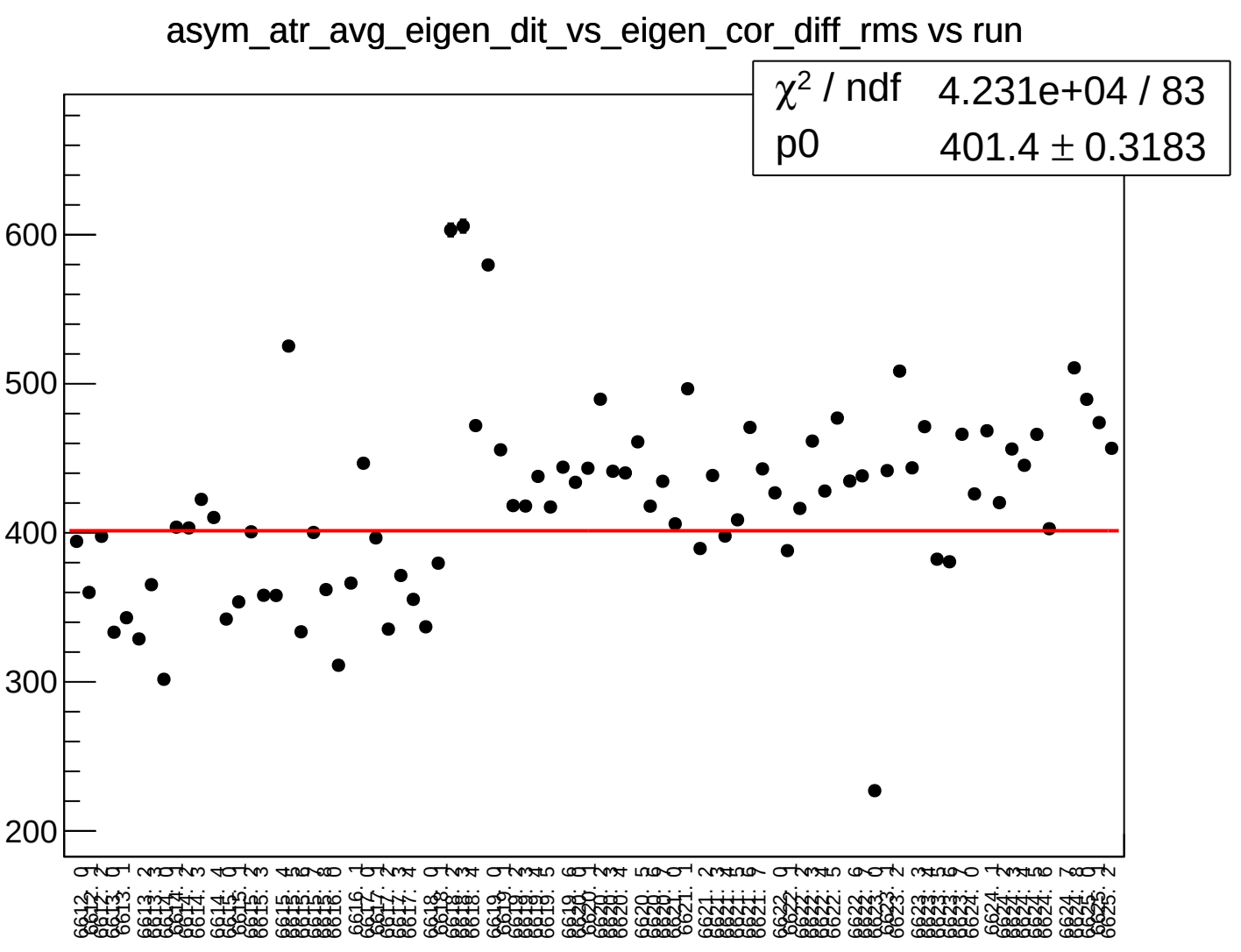

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.041e+04 / 83
p0 0.02128 ± 1.67e−05
0.026
0.025
0.024
0.023
0.022
0.021
0.02
0.019
0.018

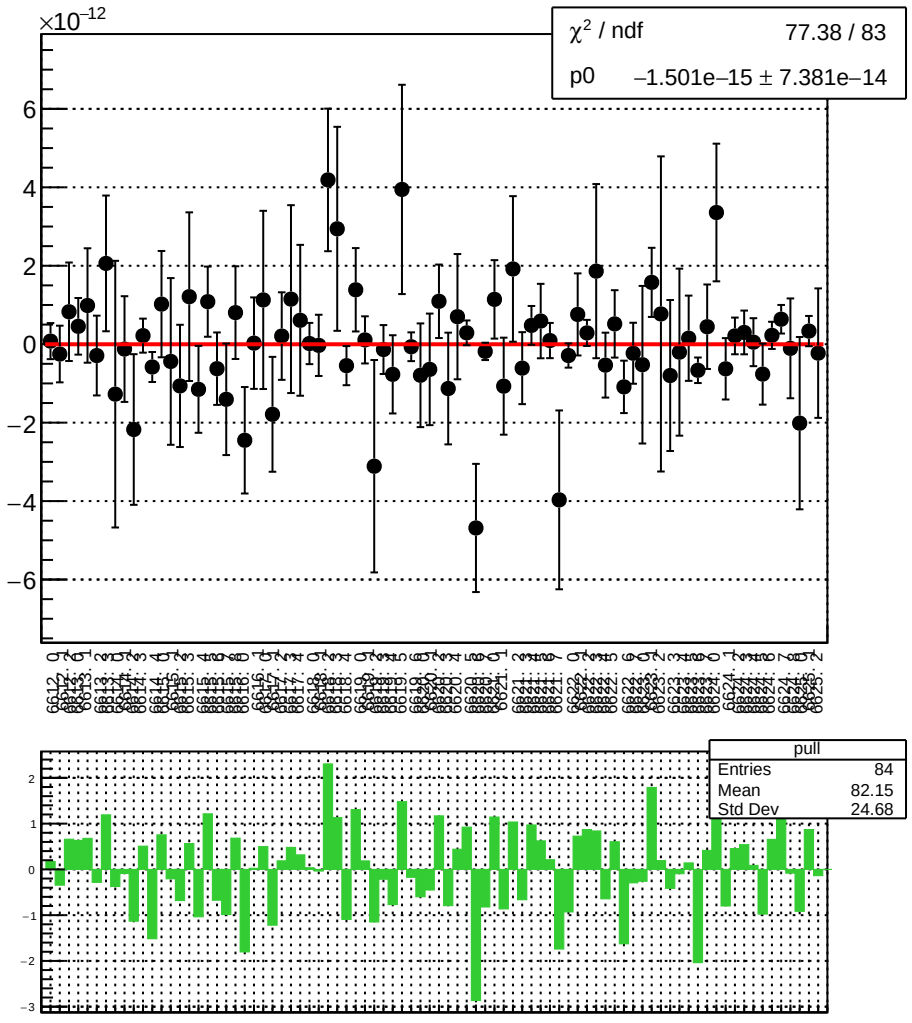

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.79 / 83
p0 0.2247 ± 0.4501
pull
Entries 84
Mean −141.6
Std Dev 0
pull1D
Entries 84
Mean 0.001242
Std Dev 0.8714

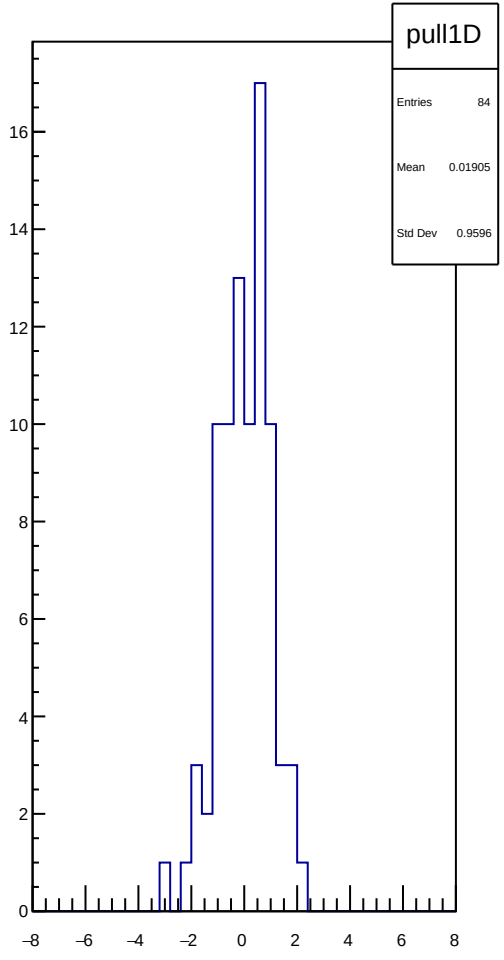

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.231e+04 / 83
p0 401.4 ± 0.3183
600
500
400
300
200

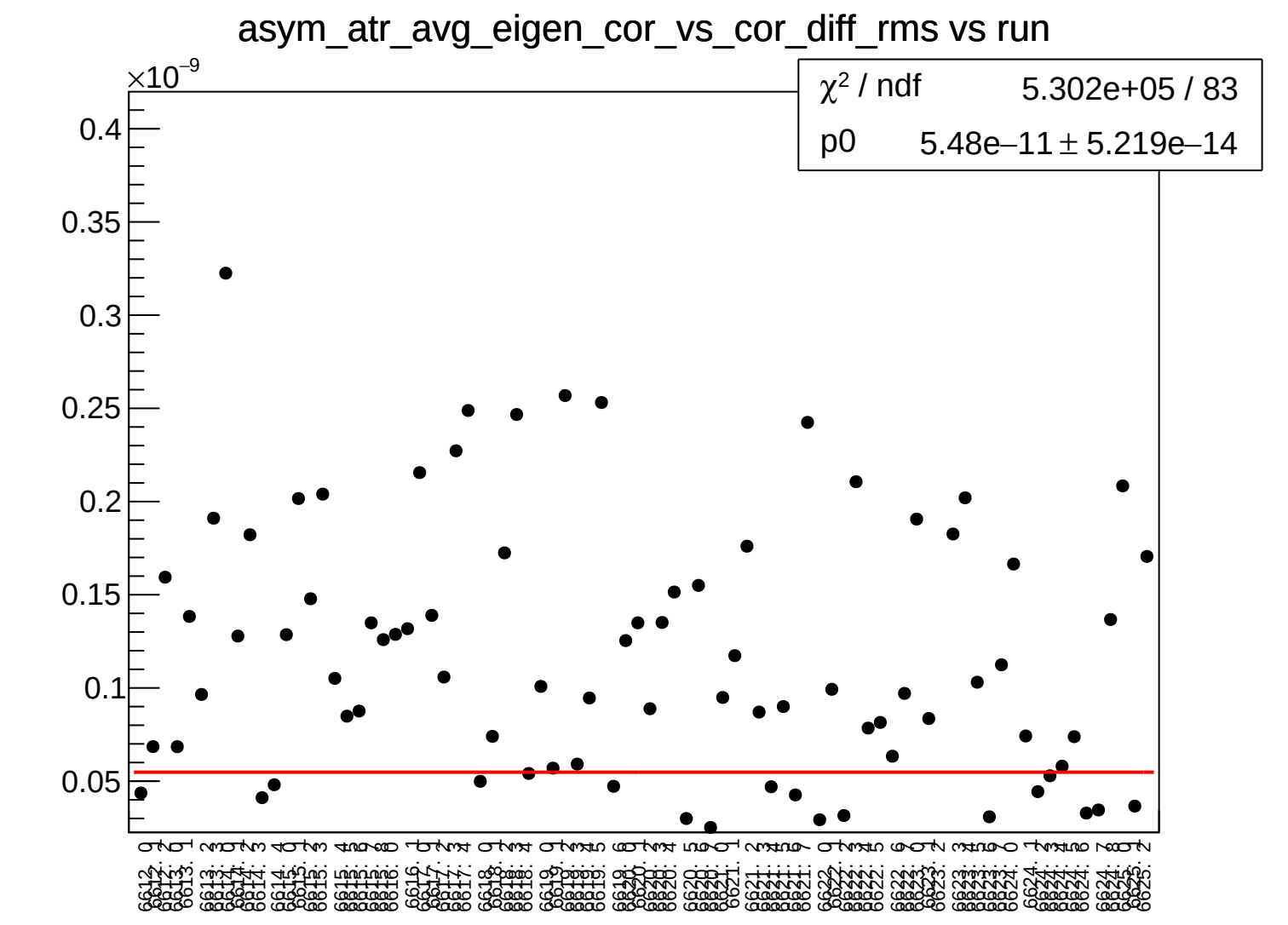

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.79 / 83
p0 0.2247 ± 0.4501
pull
Entries 84
Mean −141.6
Std Dev 0

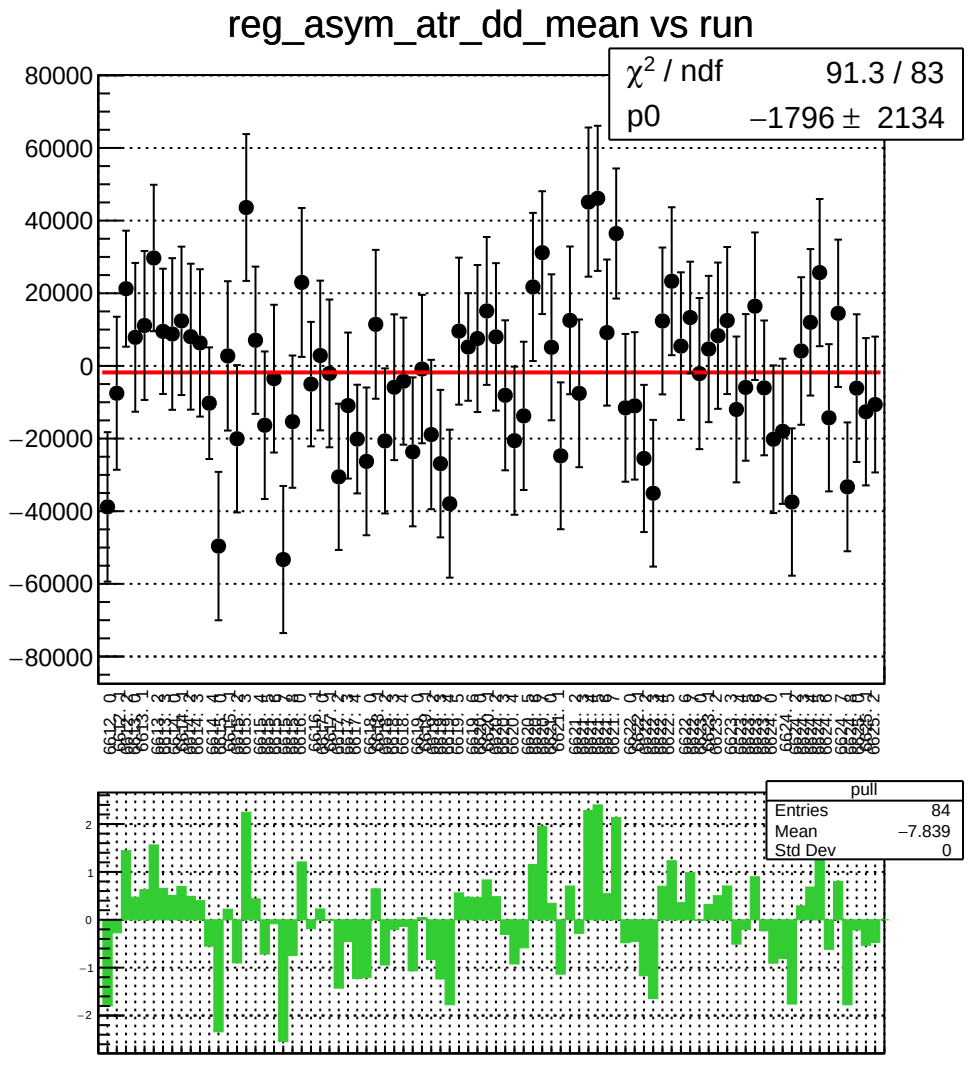

pull1D
Entries 84
Mean 0.001242
Std Dev 0.8714

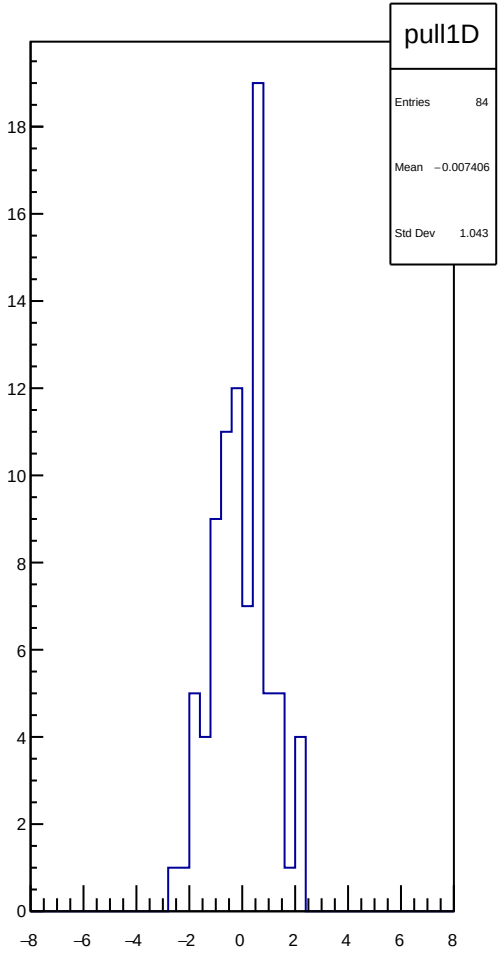

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.231e+04 / 83
p0 401.4 ± 0.3183
600
500
400
300
200

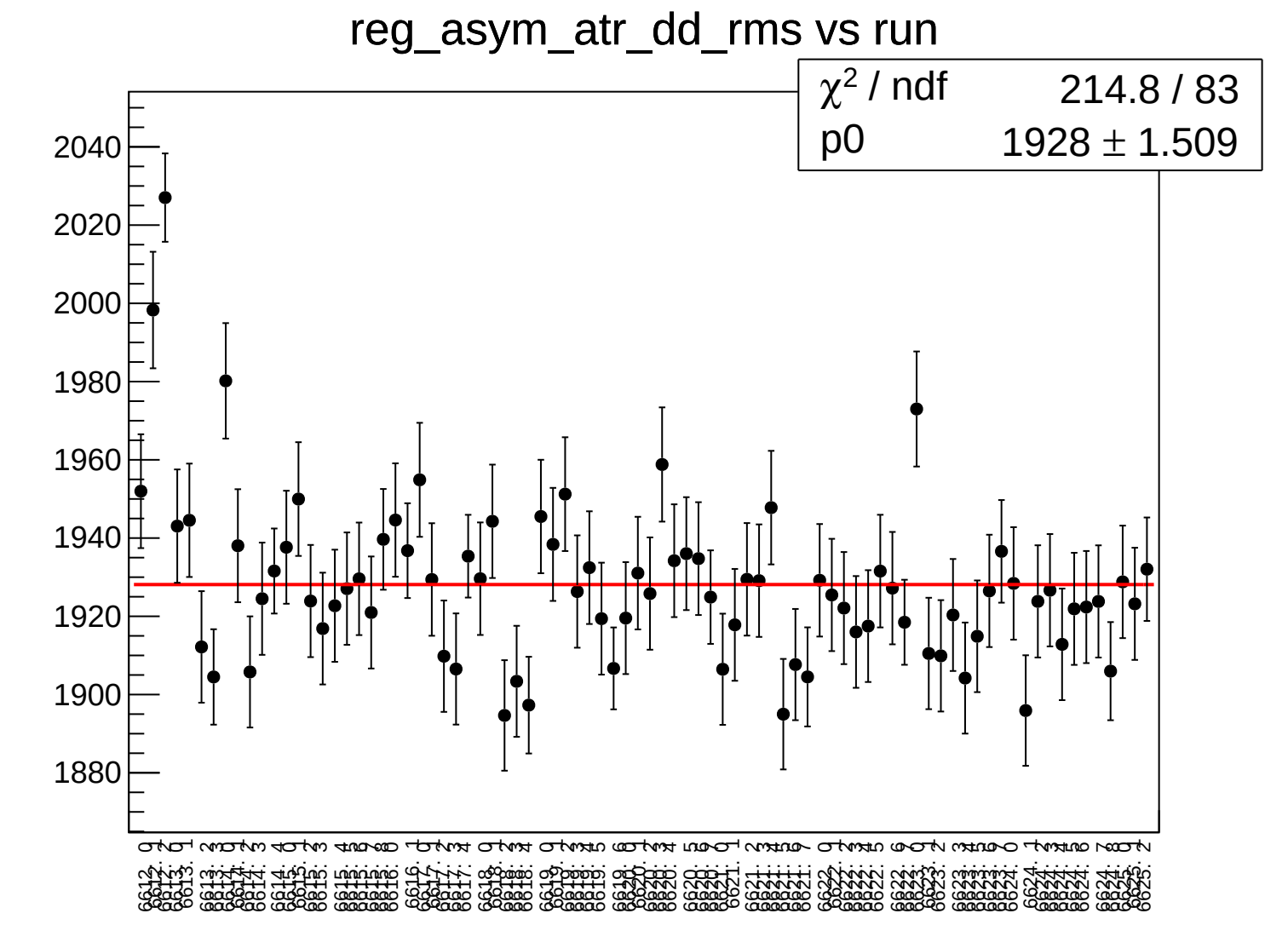

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.38 / 83
p0 −1.501e−15 ± 7.381e−14
pull
Entries 84
Mean 82.15
Std Dev 24.68

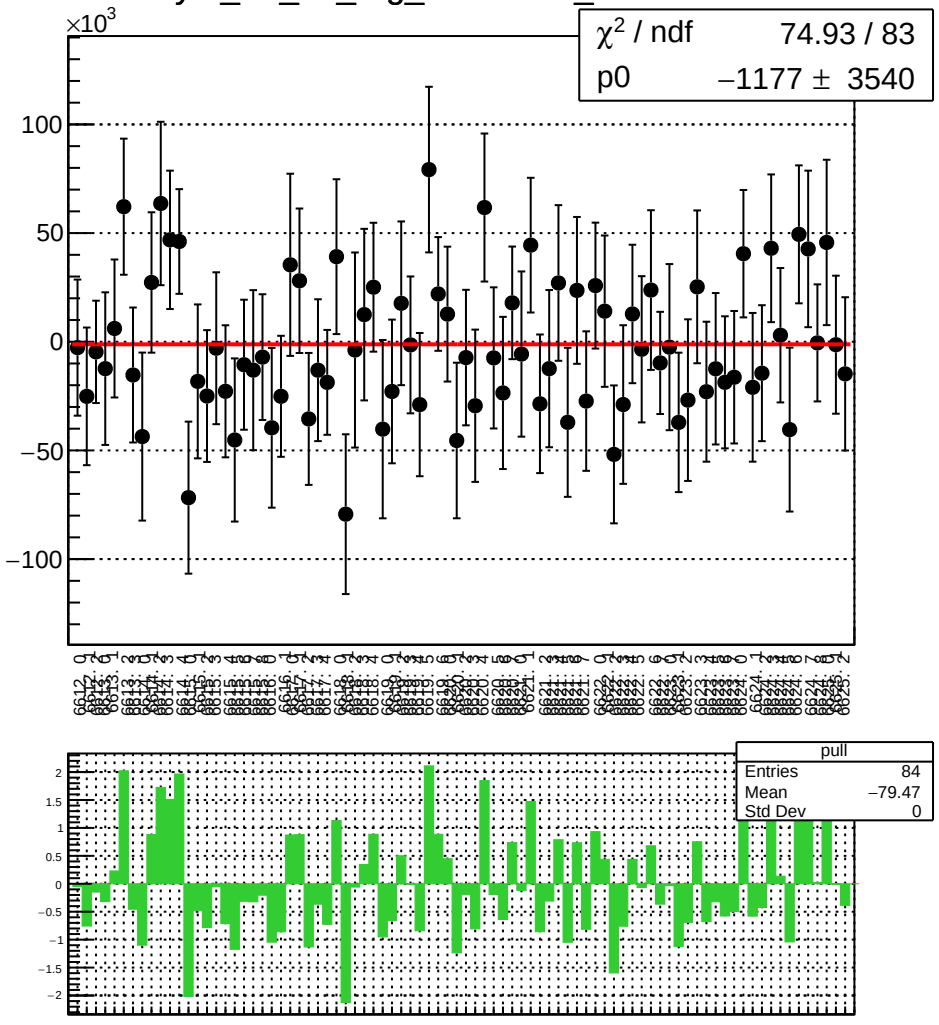

pull1D
Entries 84
Mean 0.01905
Std Dev 0.9596

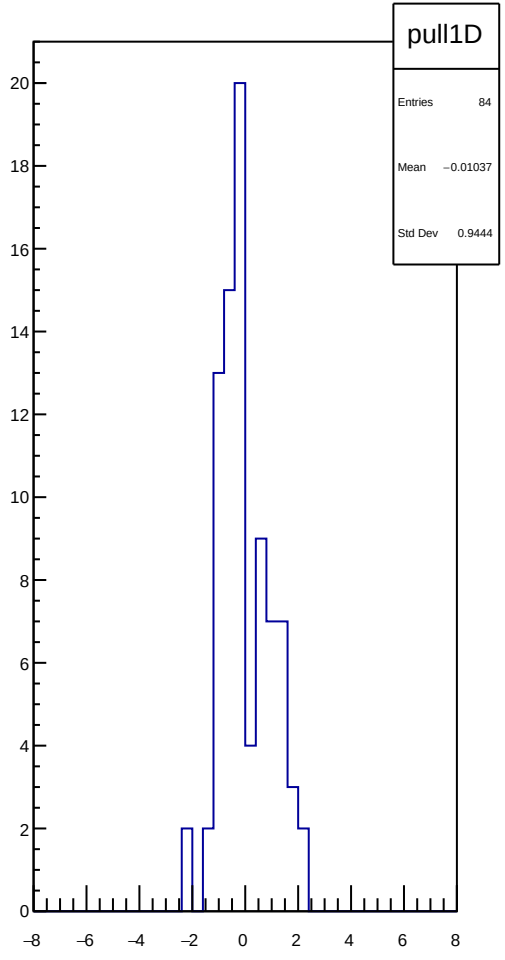

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.302e+05 / 83
p0 5.48e−11 ± 5.219e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

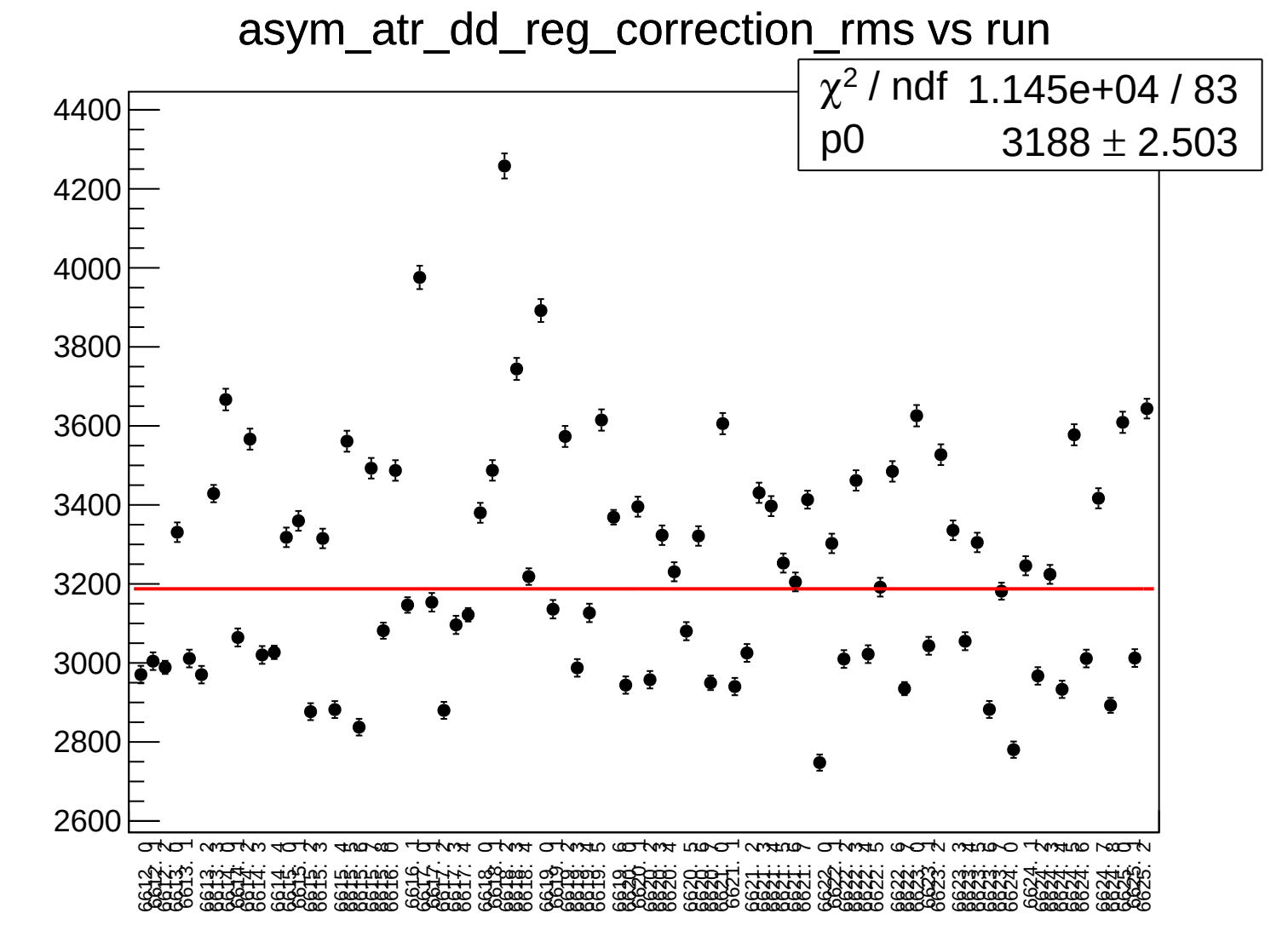

reg_asym_atr_dd_mean vs run
χ² / ndf 91.3 / 83
p0 −1796 ± 2134
pull
Entries 84
Mean −7.839
Std Dev 0

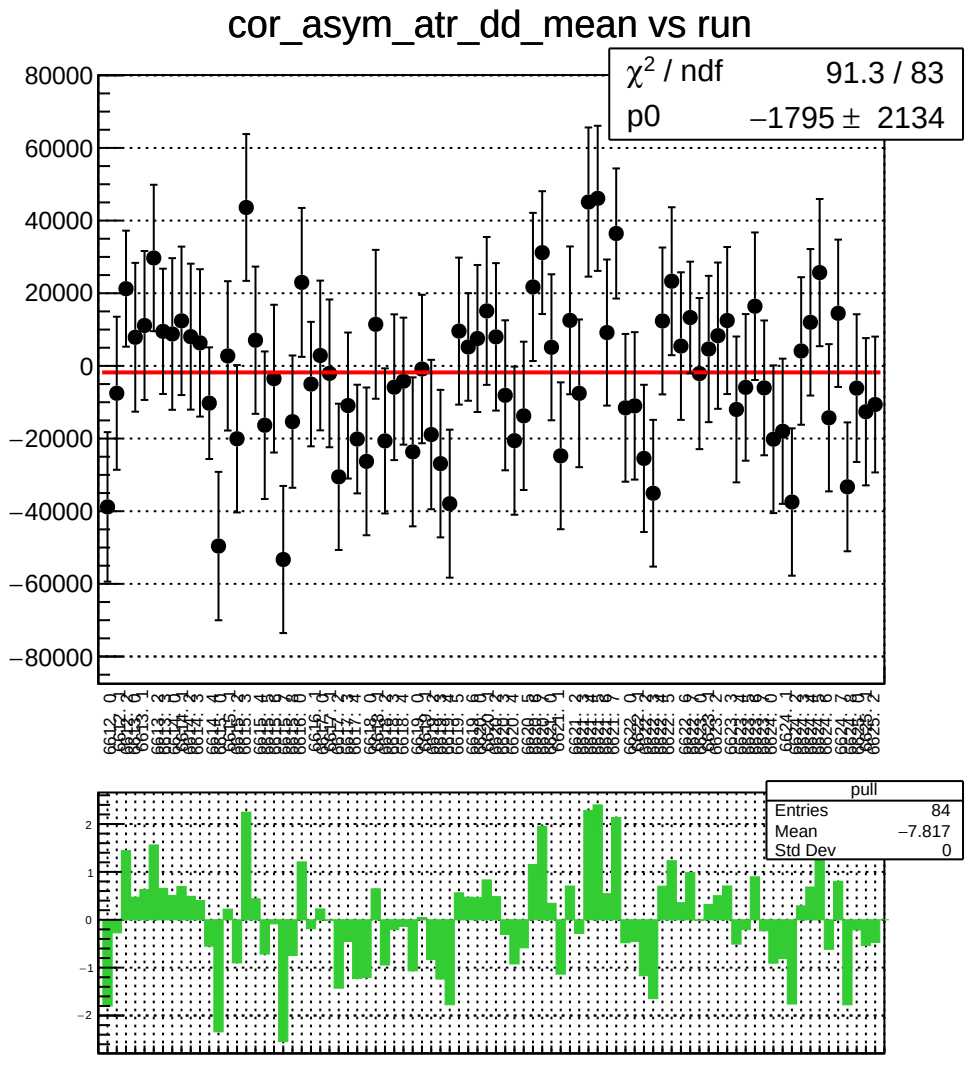

pull1D
Entries 84
Mean −0.007406
Std Dev 1.043

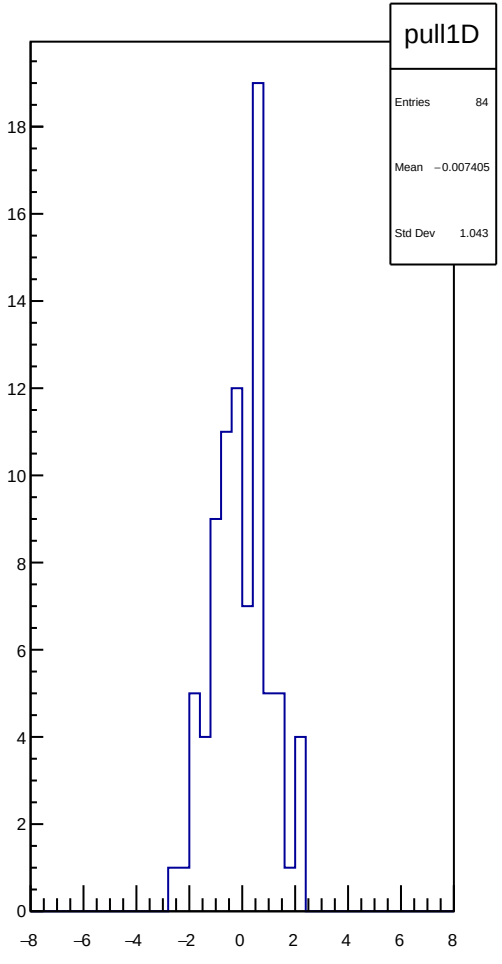

reg_asym_atr_dd_rms vs run
χ^2 / ndf 214.8 / 83
p0 1928 ± 1.509
2040
2020
2000
1980
1960
1940
1920
1900
1880

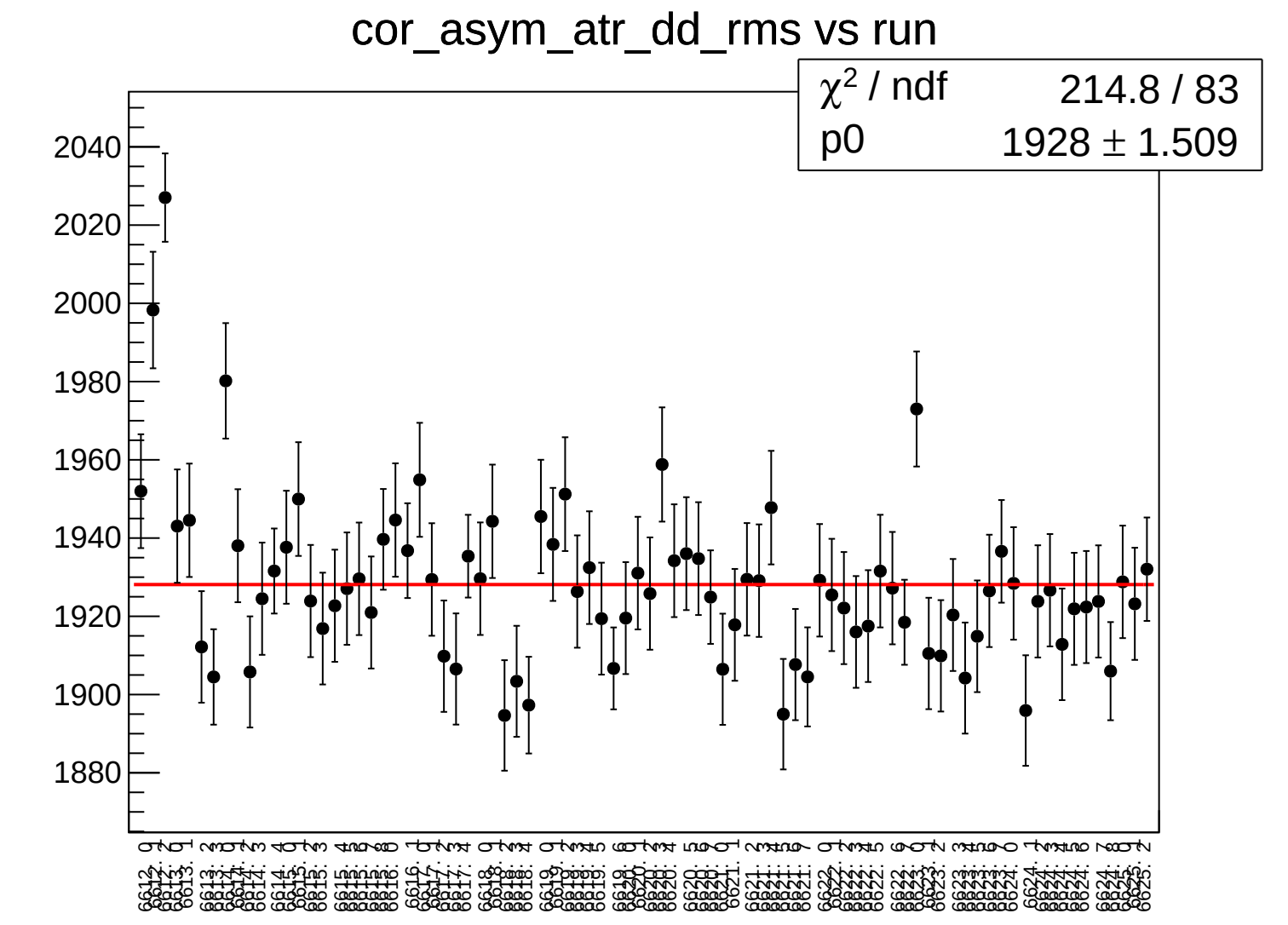

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 74.93 / 83
p0 −1177 ± 3540
100
50
0
−50
−100
pull
Entries 84
Mean −79.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

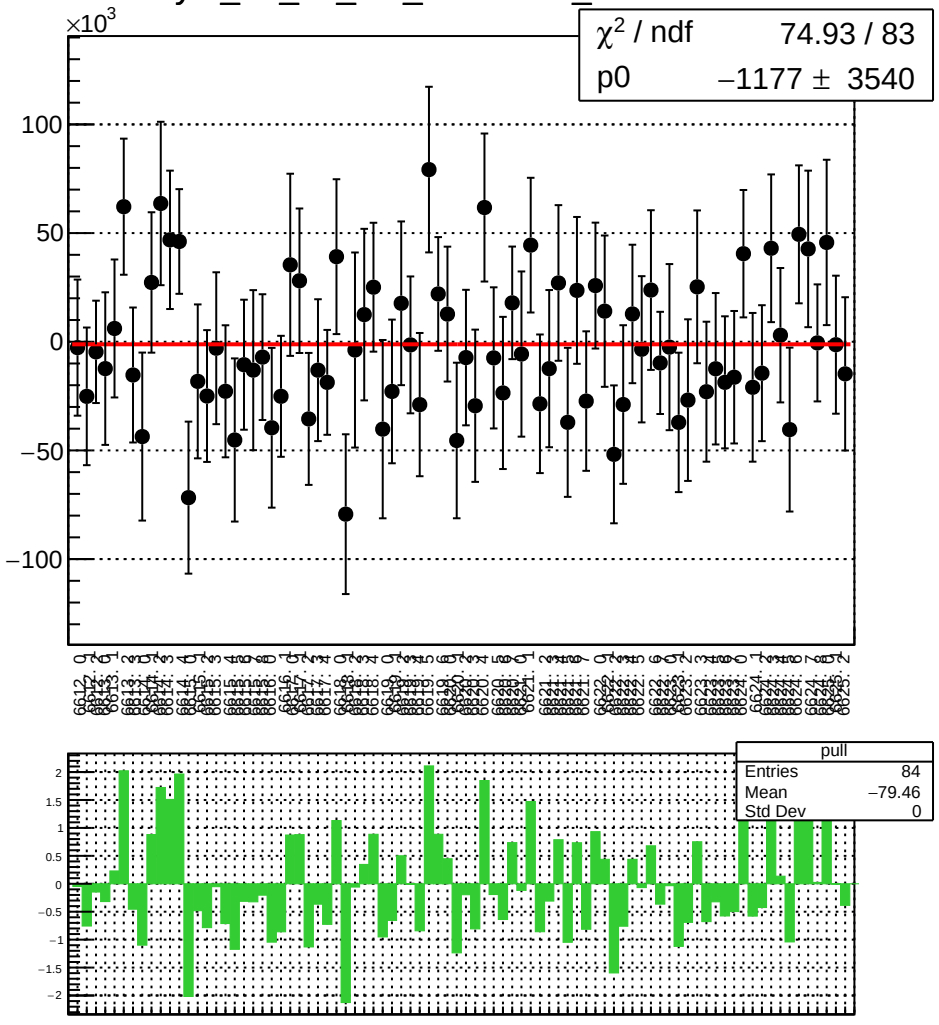

pull1D
Entries 84
Mean −0.01037
Std Dev 0.9444
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

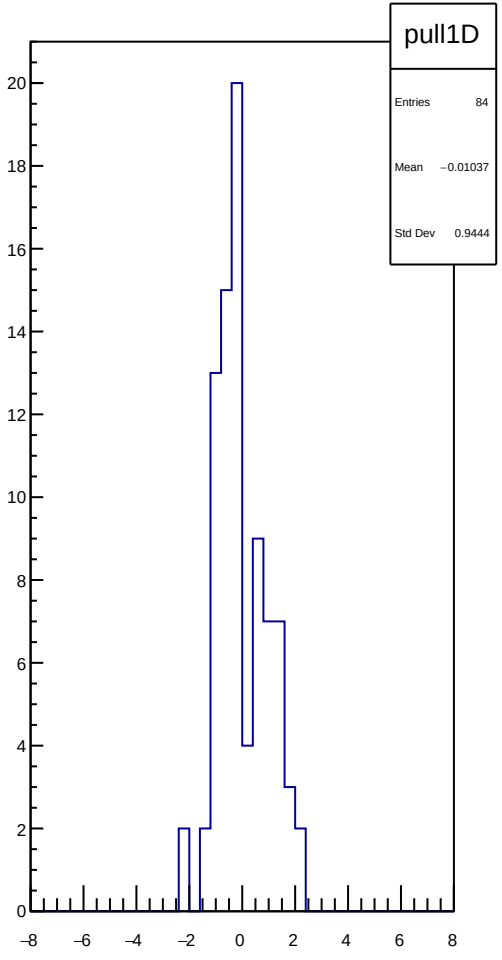

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 1.145e+04 / 83
p0 3188 ± 2.503
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

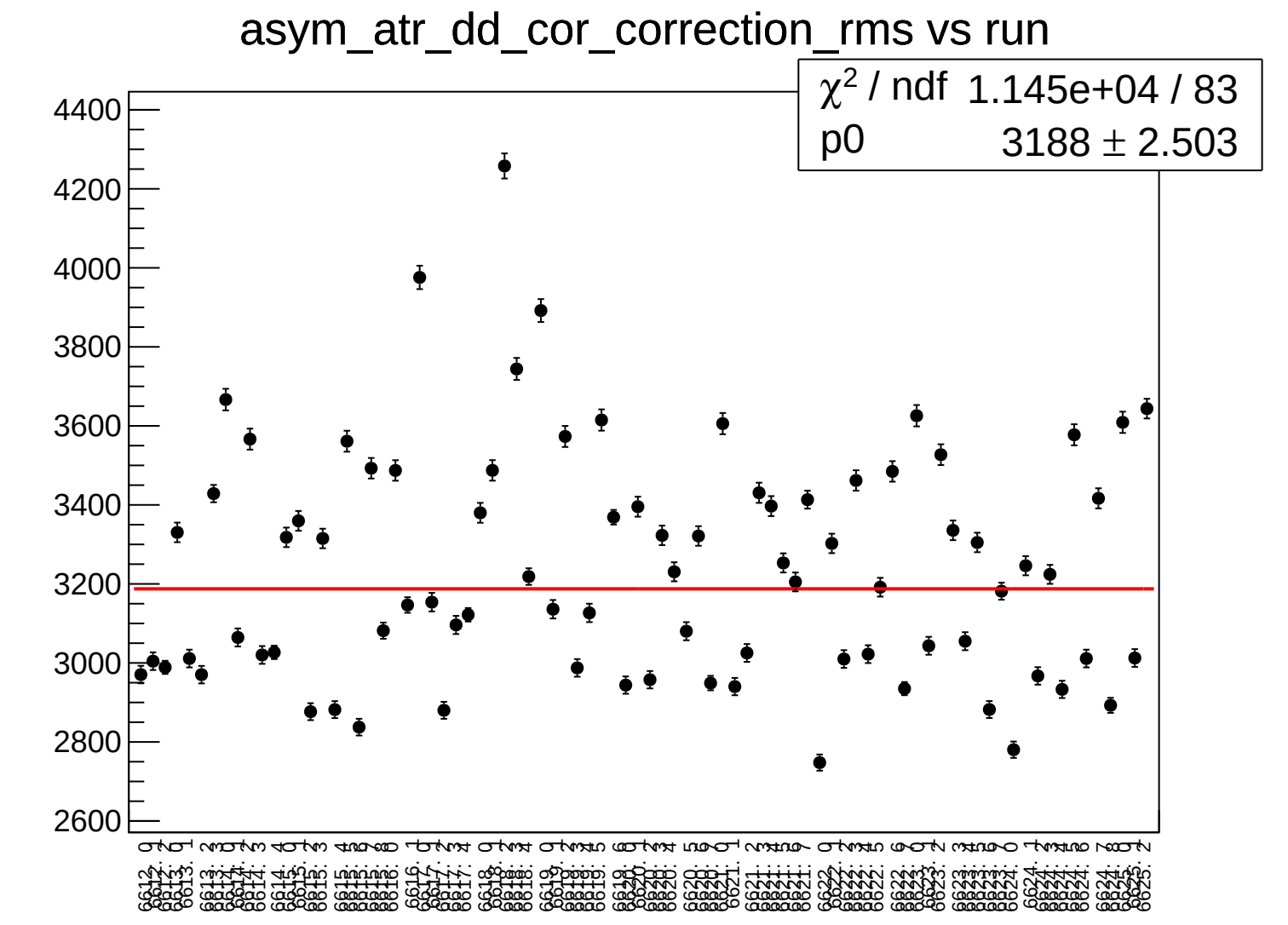

cor_asym_atr_dd_mean vs run
χ² / ndf 91.3 / 83
p0 −1795 ± 2134
pull
Entries 84
Mean −7.817
Std Dev 0

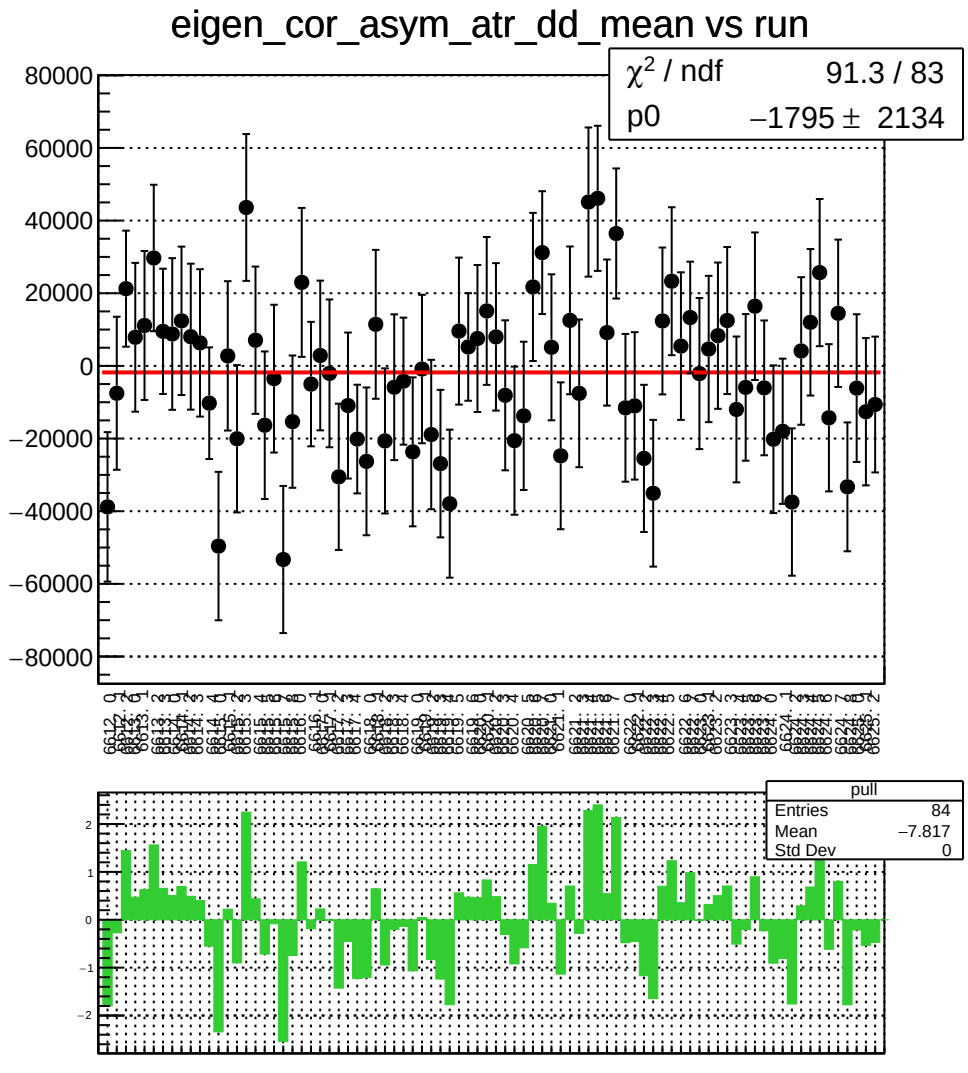

pull1D
Entries 84
Mean −0.007405
Std Dev 1.043

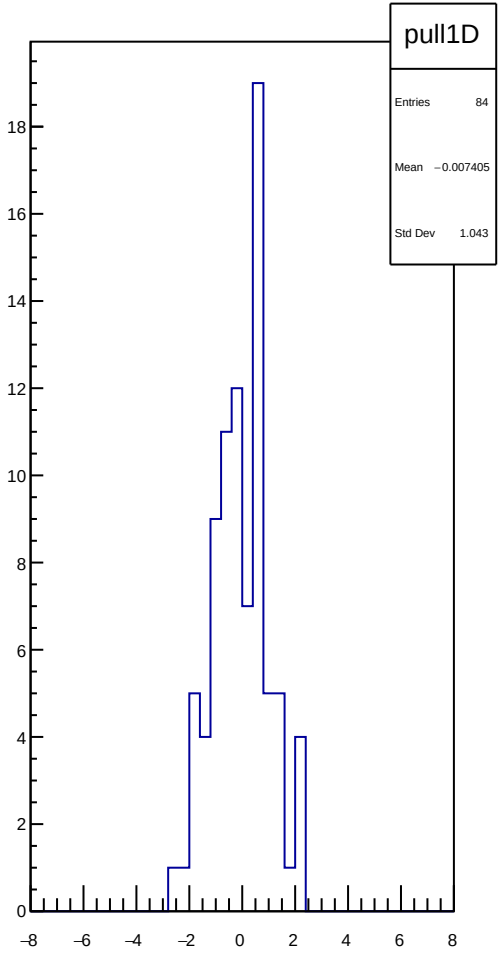

cor_asym_atr_dd_rms vs run
χ^2 / ndf 214.8 / 83
p0 1928 ± 1.509
2040
2020
2000
1980
1960
1940
1920
1900
1880

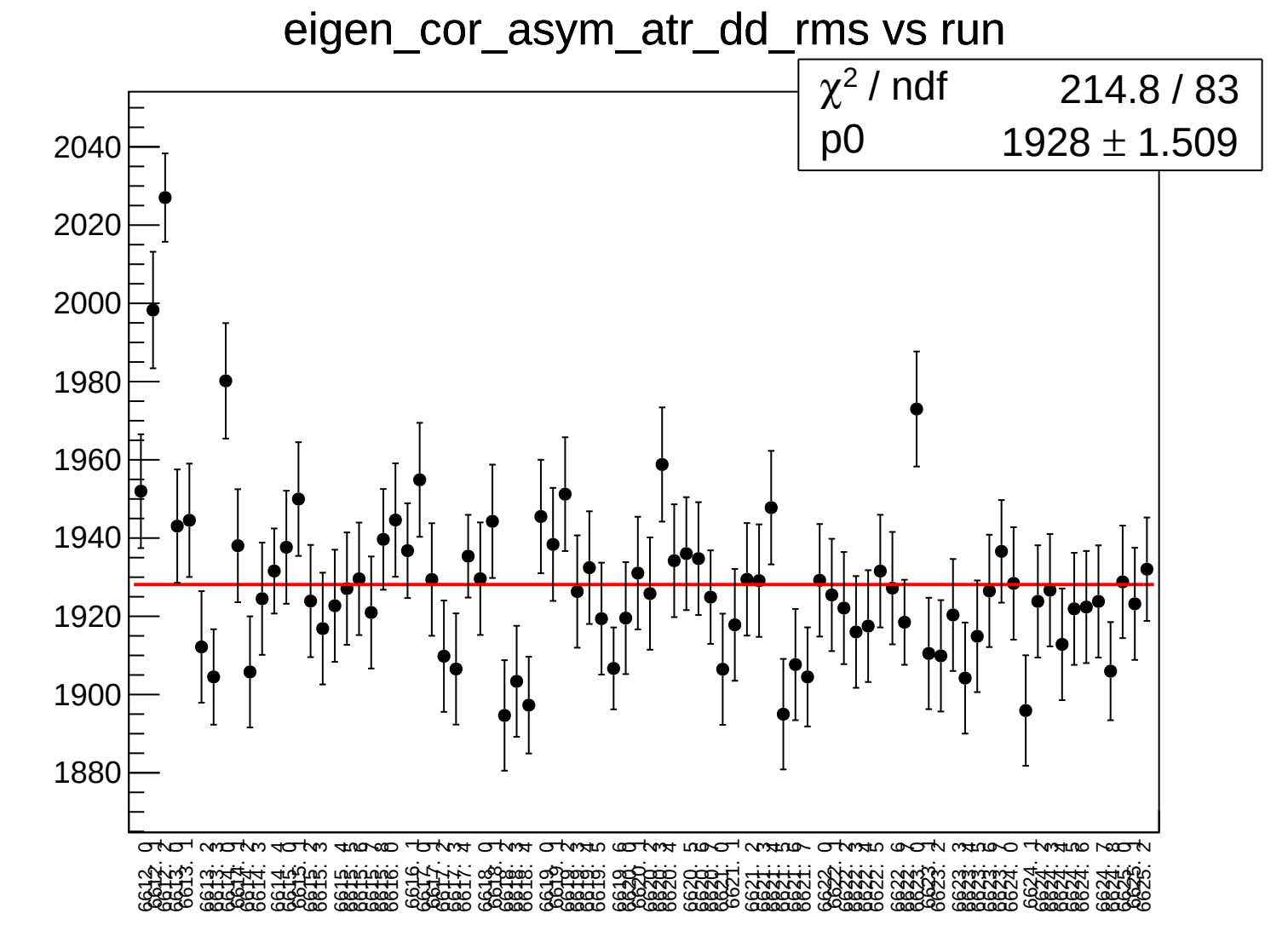

asym_atr_dd_cor_correction_mean vs run
χ² / ndf 74.93 / 83
p0 −1177 ± 3540
×10³
100
50
0
−50
−100
pull
Entries 84
Mean −79.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

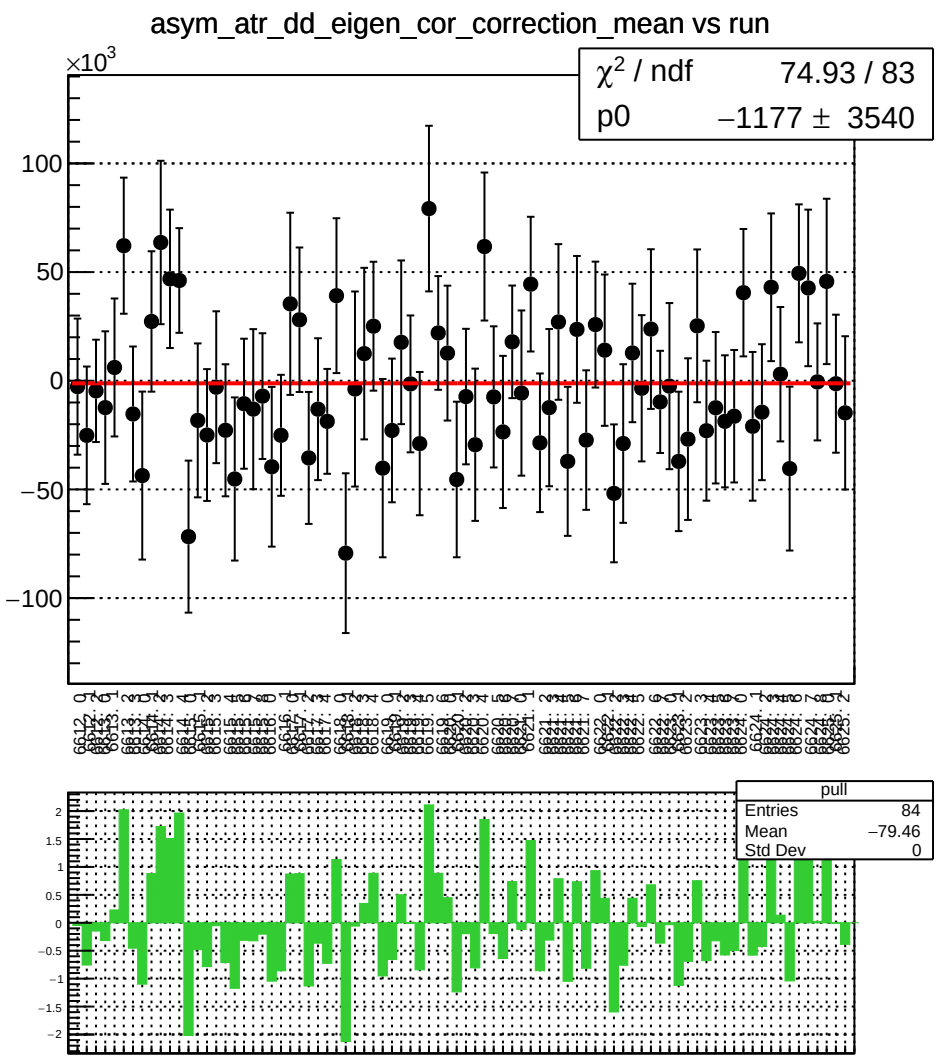

pull1D
Entries 84
Mean −0.01037
Std Dev 0.9444
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

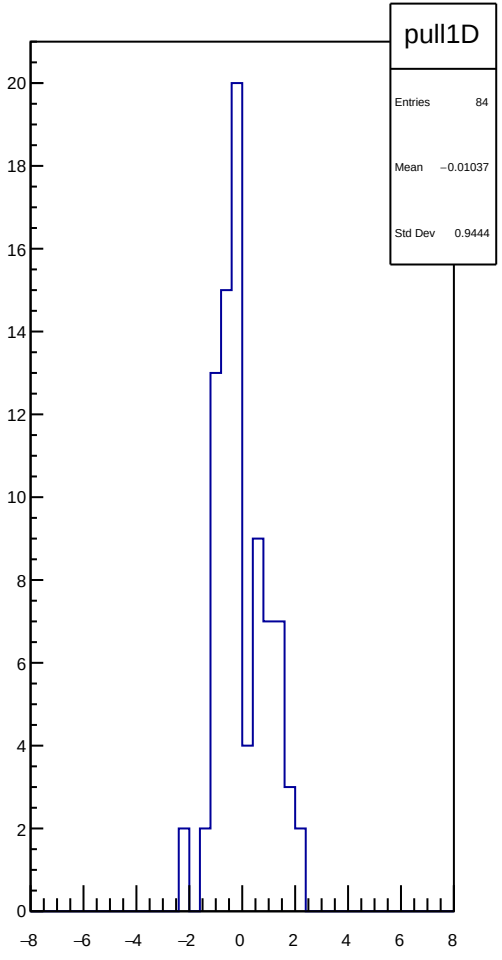

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 1.145e+04 / 83
p0 3188 ± 2.503
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

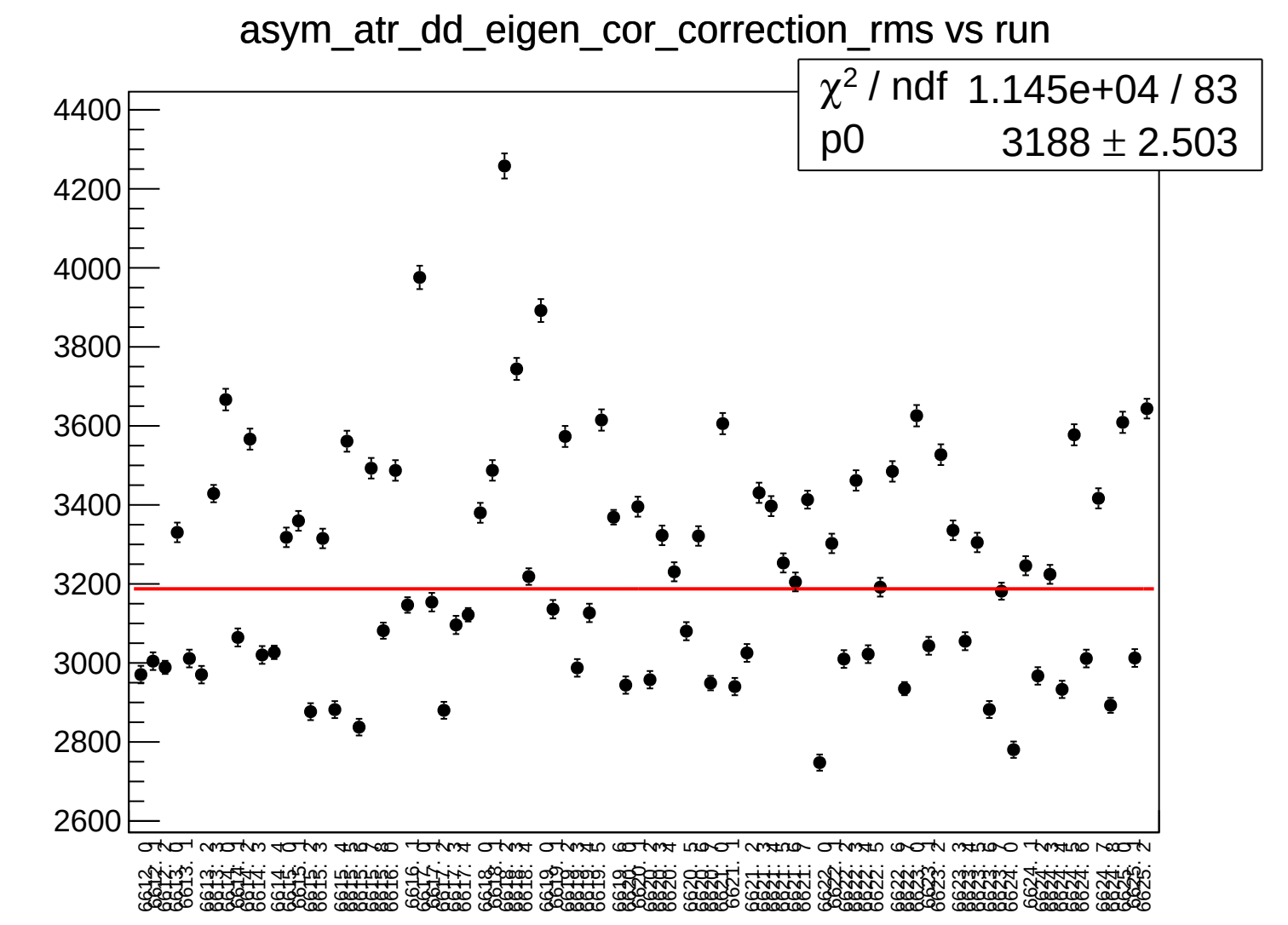

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 91.3 / 83
p0 −1795 ± 2134
pull
Entries 84
Mean −7.817
Std Dev 0

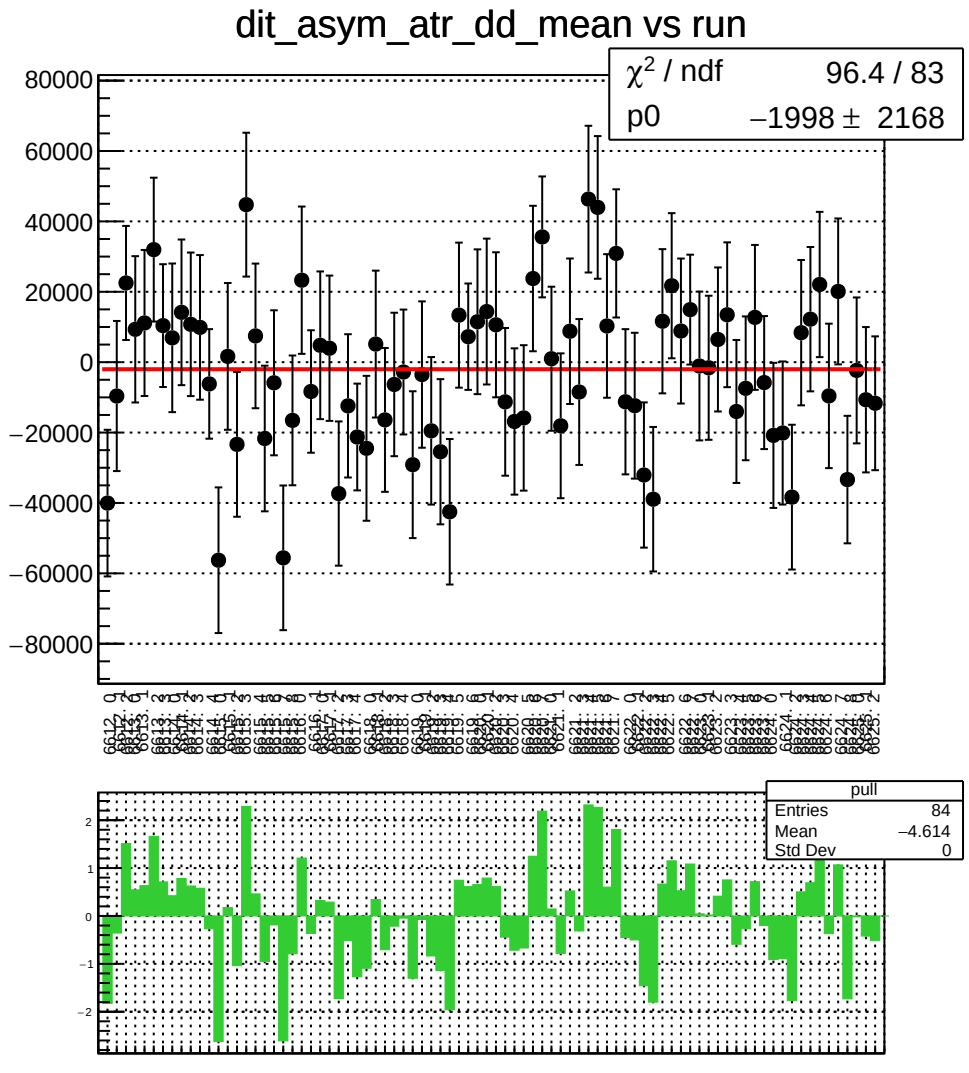

pull1D
Entries 84
Mean −0.007405
Std Dev 1.043

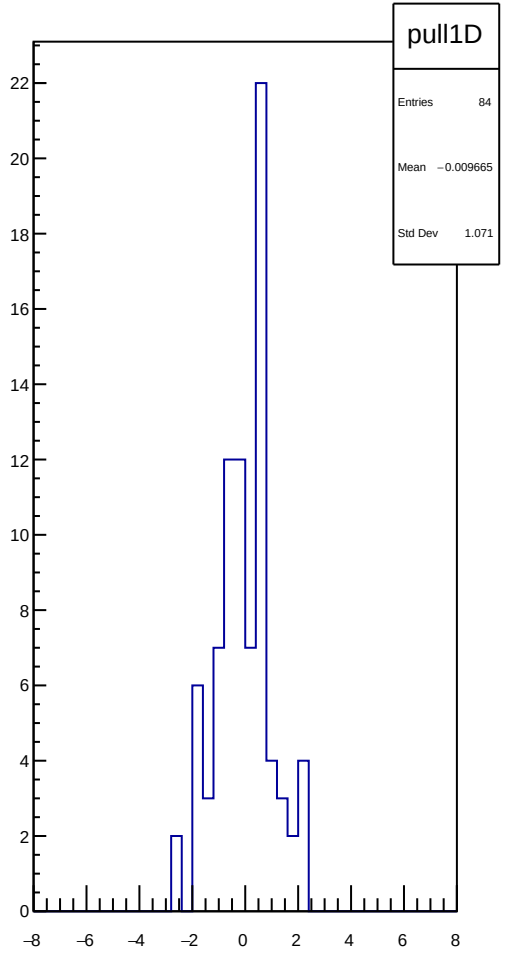

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 214.8 / 83
p0 1928 ± 1.509
2040
2020
2000
1980
1960
1940
1920
1900
1880

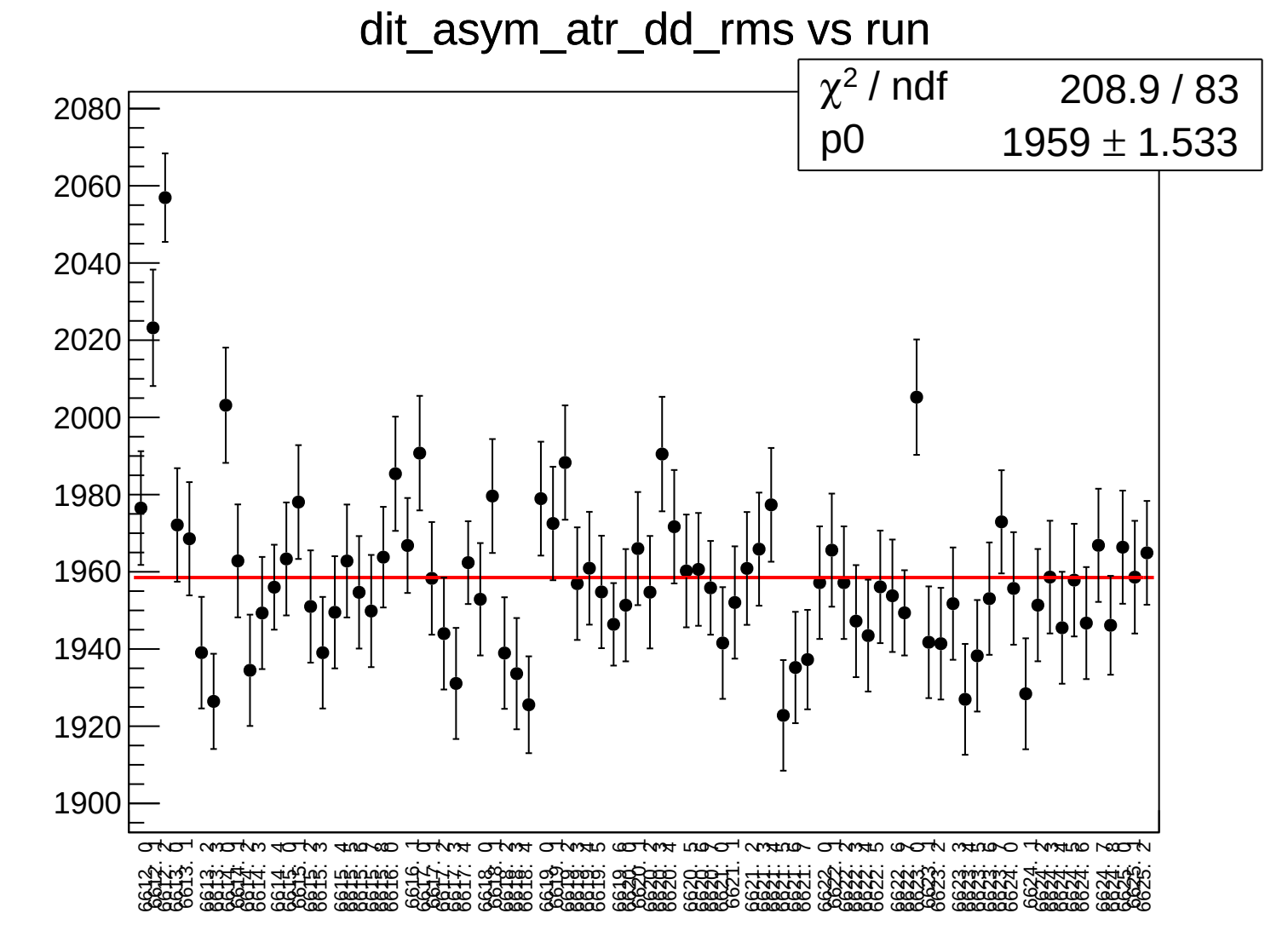

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.93 / 83
p0 −1177 ± 3540
100
50
0
−50
−100
pull
Entries 84
Mean −79.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

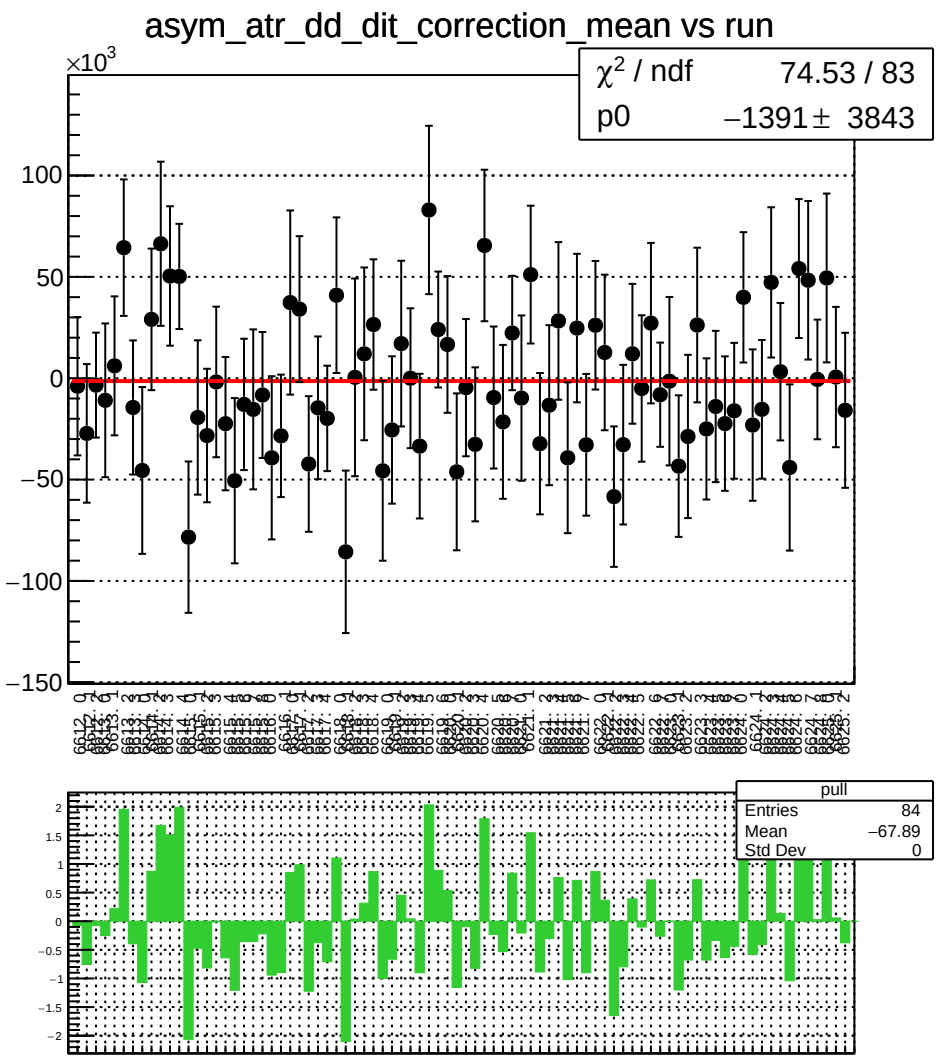

pull1D
Entries 84
Mean −0.01037
Std Dev 0.9444
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

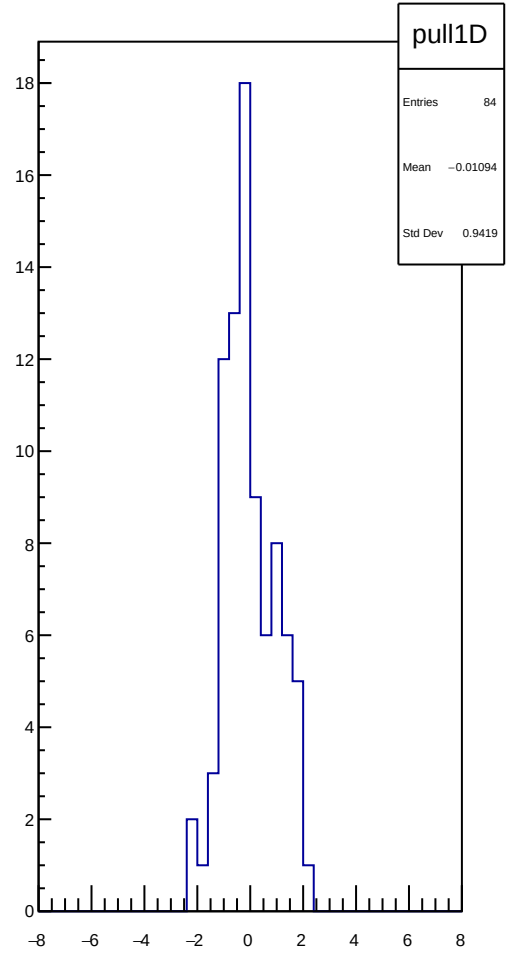

asym_atr_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 1.145e+04 / 83
p0 3188 ± 2.503
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

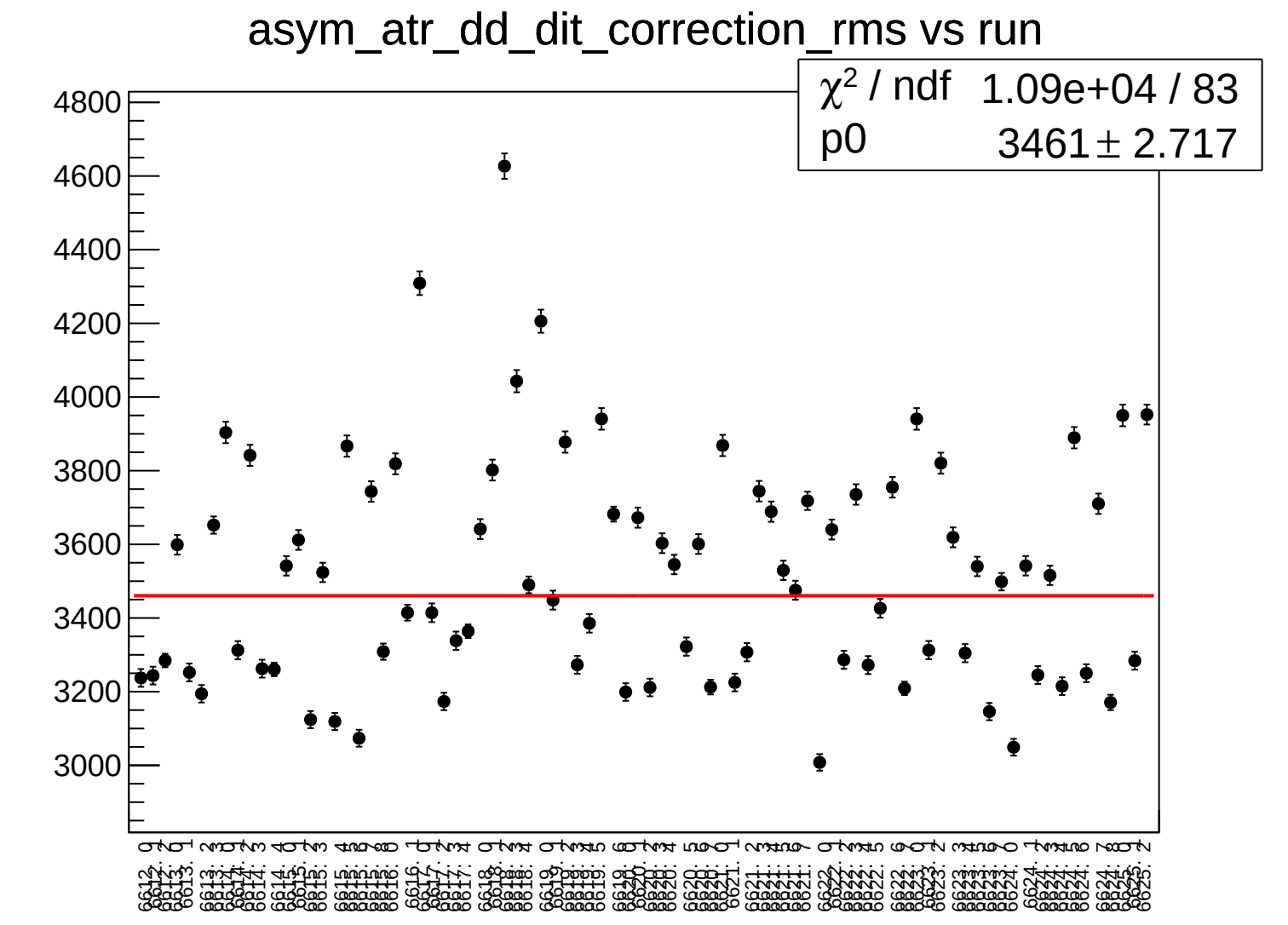

dit_asym_atr_dd_mean vs run
χ² / ndf 96.4 / 83
p0 −1998 ± 2168
pull
Entries 84
Mean −4.614
Std Dev 0

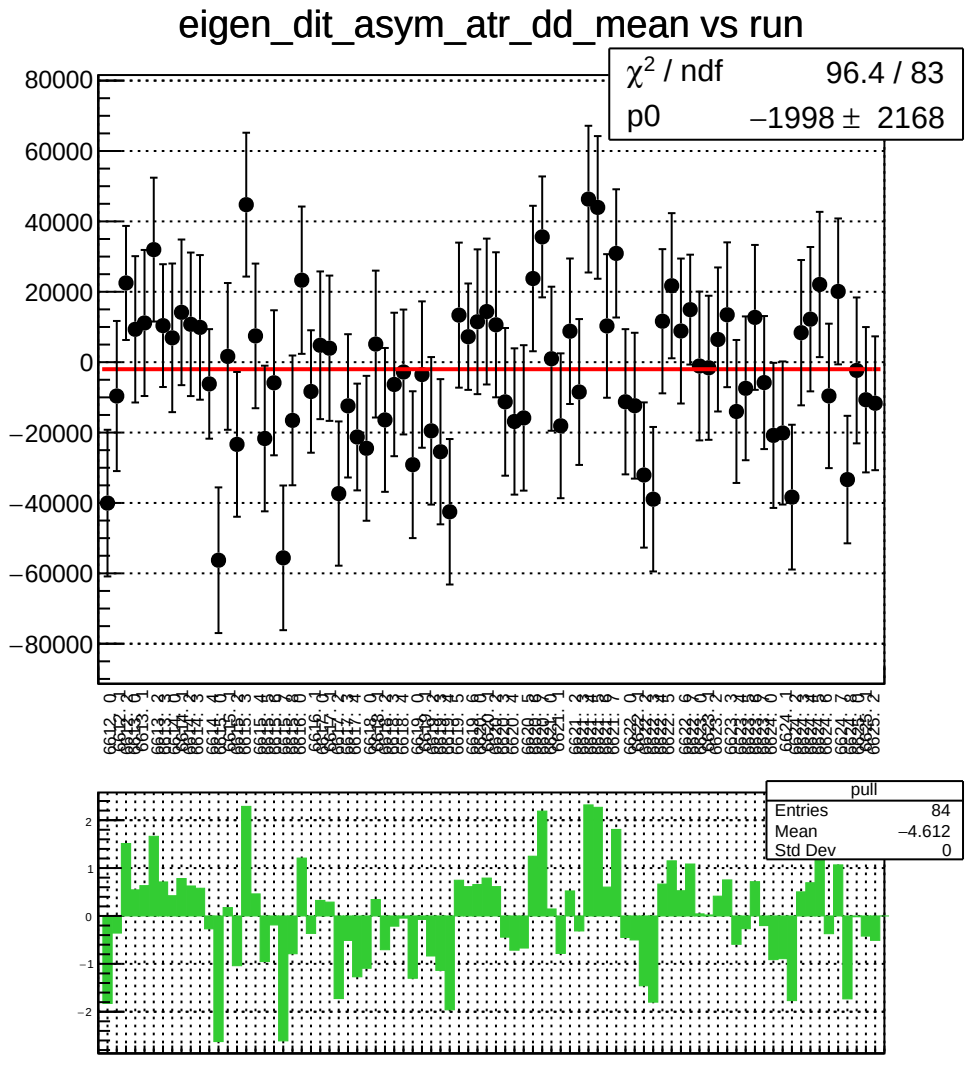

pull1D
Entries 84
Mean −0.009665
Std Dev 1.071

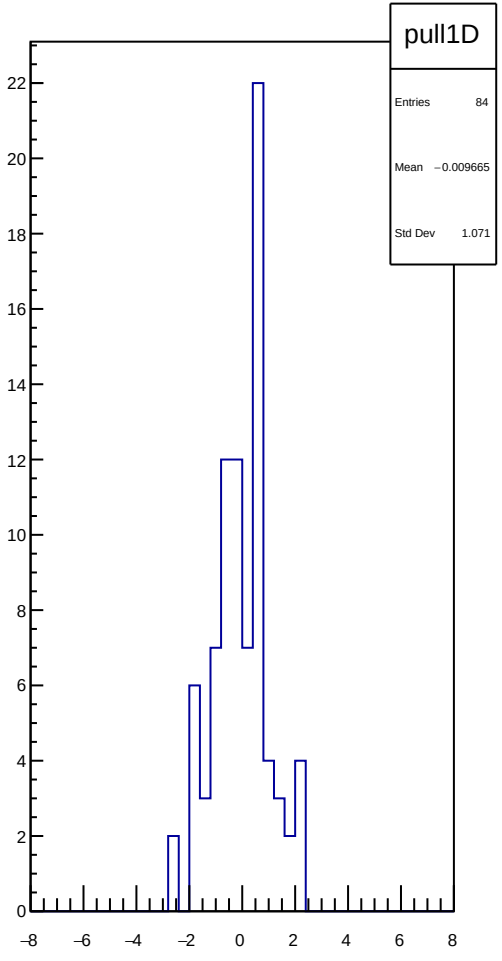

dit_asym_atr_dd_rms vs run
χ² / ndf 208.9 / 83
p0 1959 ± 1.533
2080
2060
2040
2020
2000
1980
1960
1940
1920
1900

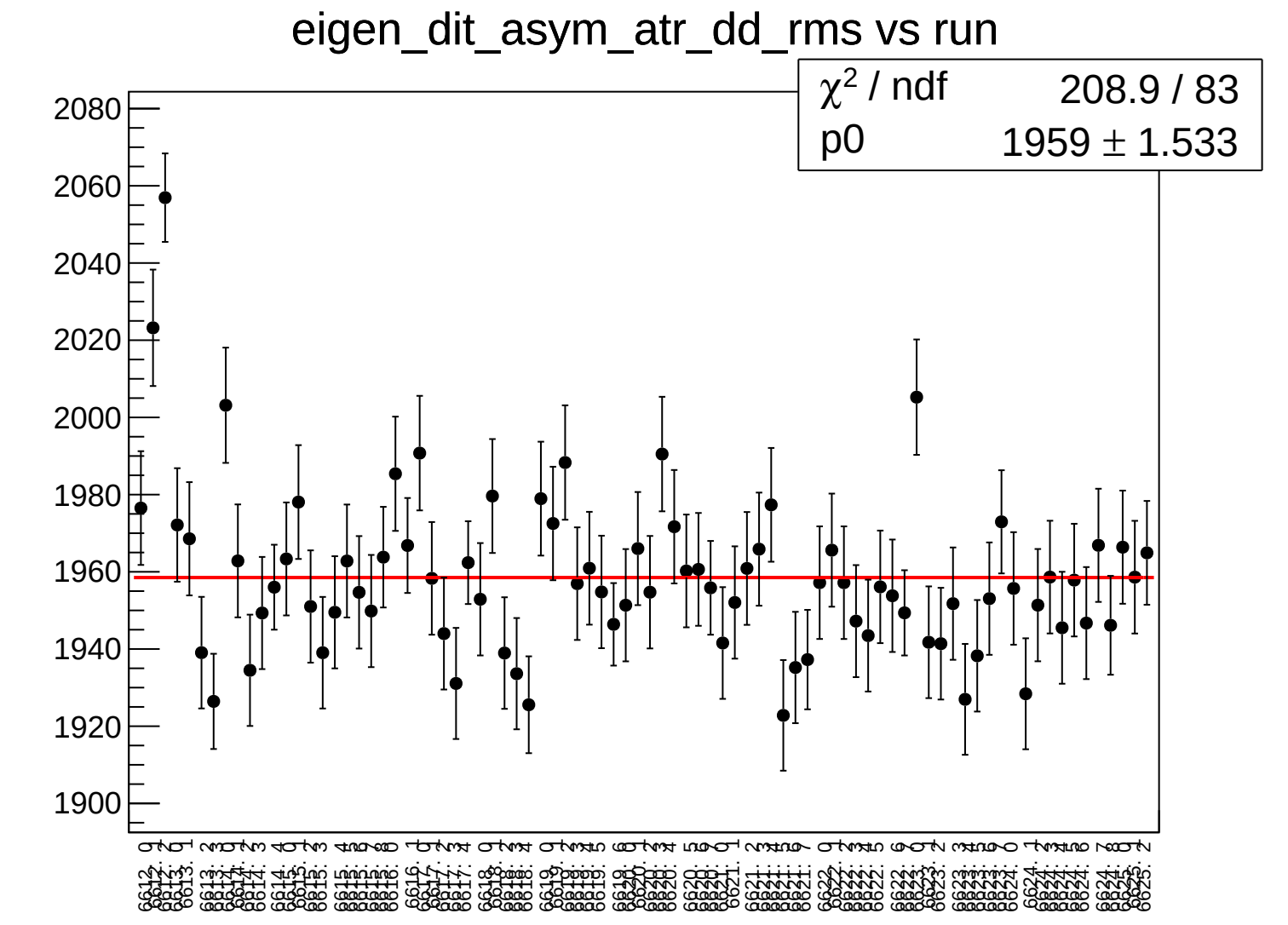

asym_atr_dd_dit_correction_mean vs run
χ² / ndf 74.53 / 83
p0 −1391 ± 3843
pull
Entries 84
Mean −67.89
Std Dev 0

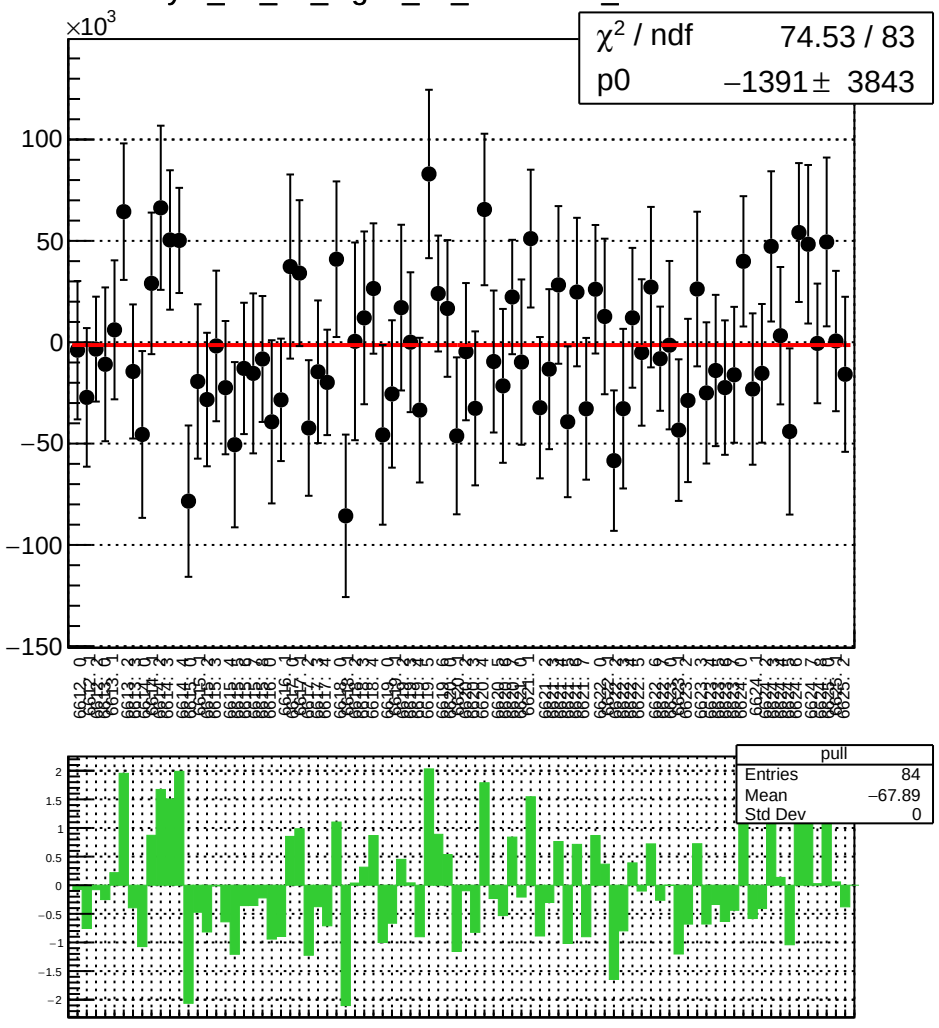

pull1D
Entries 84
Mean −0.01094
Std Dev 0.9419

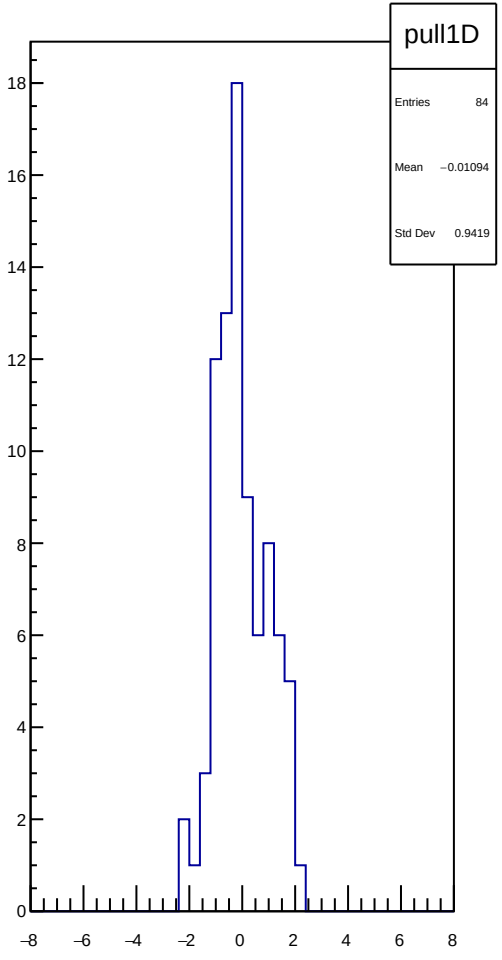

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 1.09e+04 / 83
p0 3461 ± 2.717
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

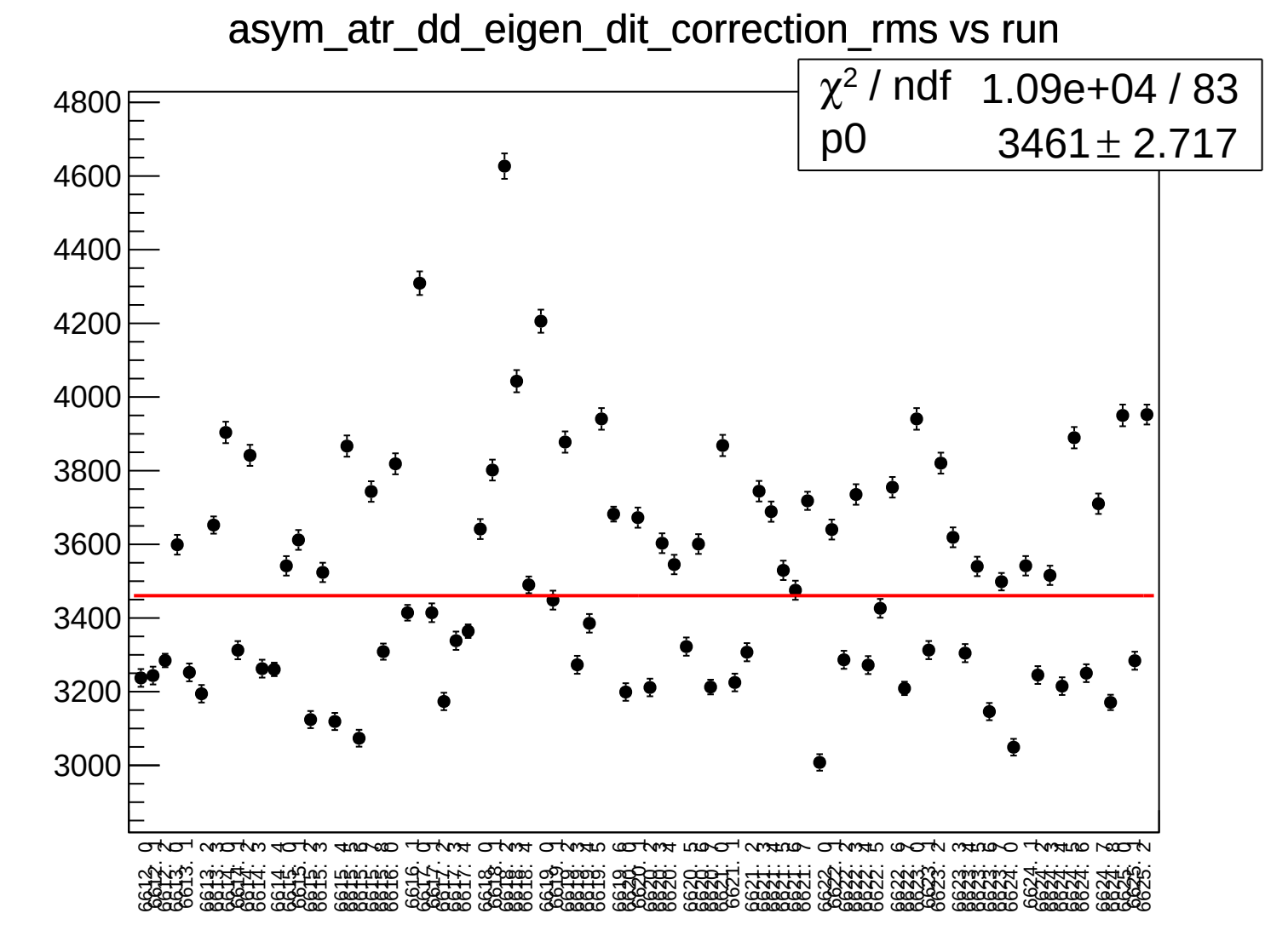

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 96.4 / 83
p0 −1998 ± 2168
pull
Entries 84
Mean −4.612
Std Dev 0

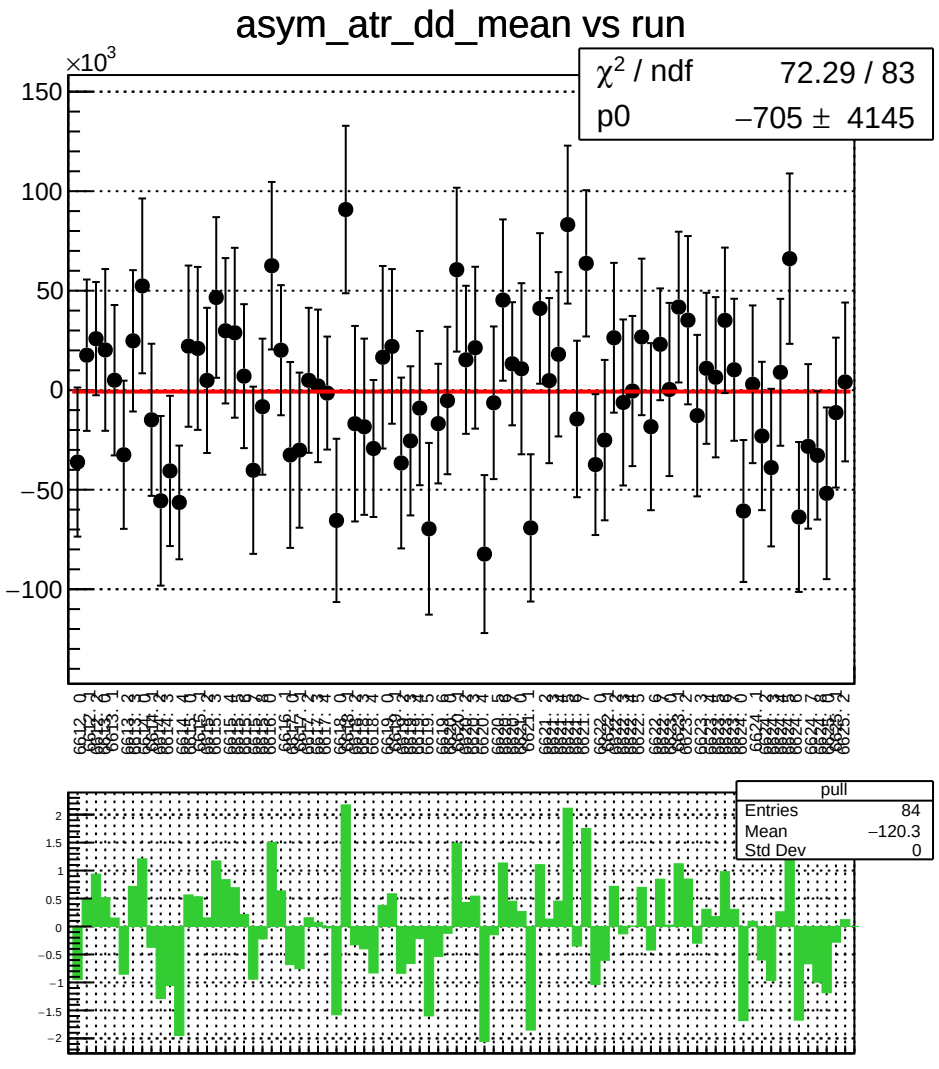

pull1D
Entries 84
Mean −0.009665
Std Dev 1.071

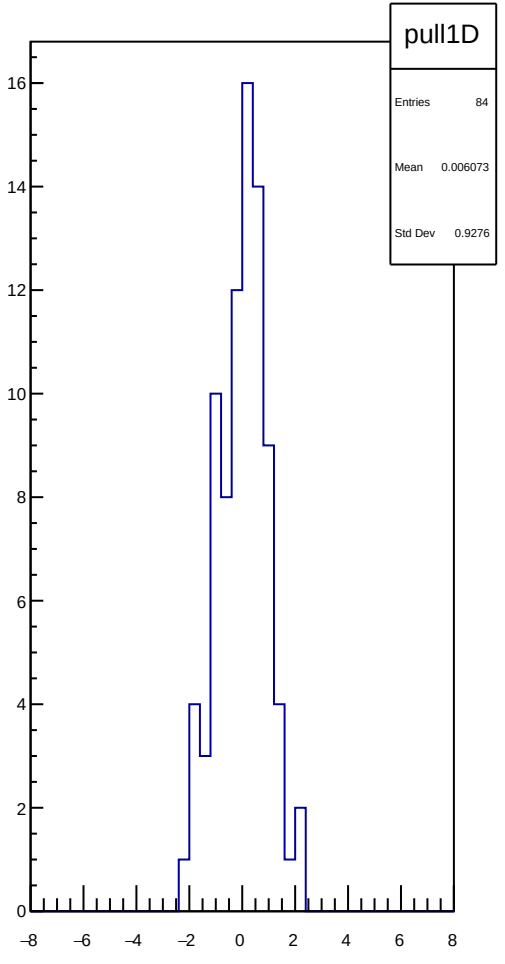

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 208.9 / 83
p0 1959 ± 1.533
2080
2060
2040
2020
2000
1980
1960
1940
1920
1900

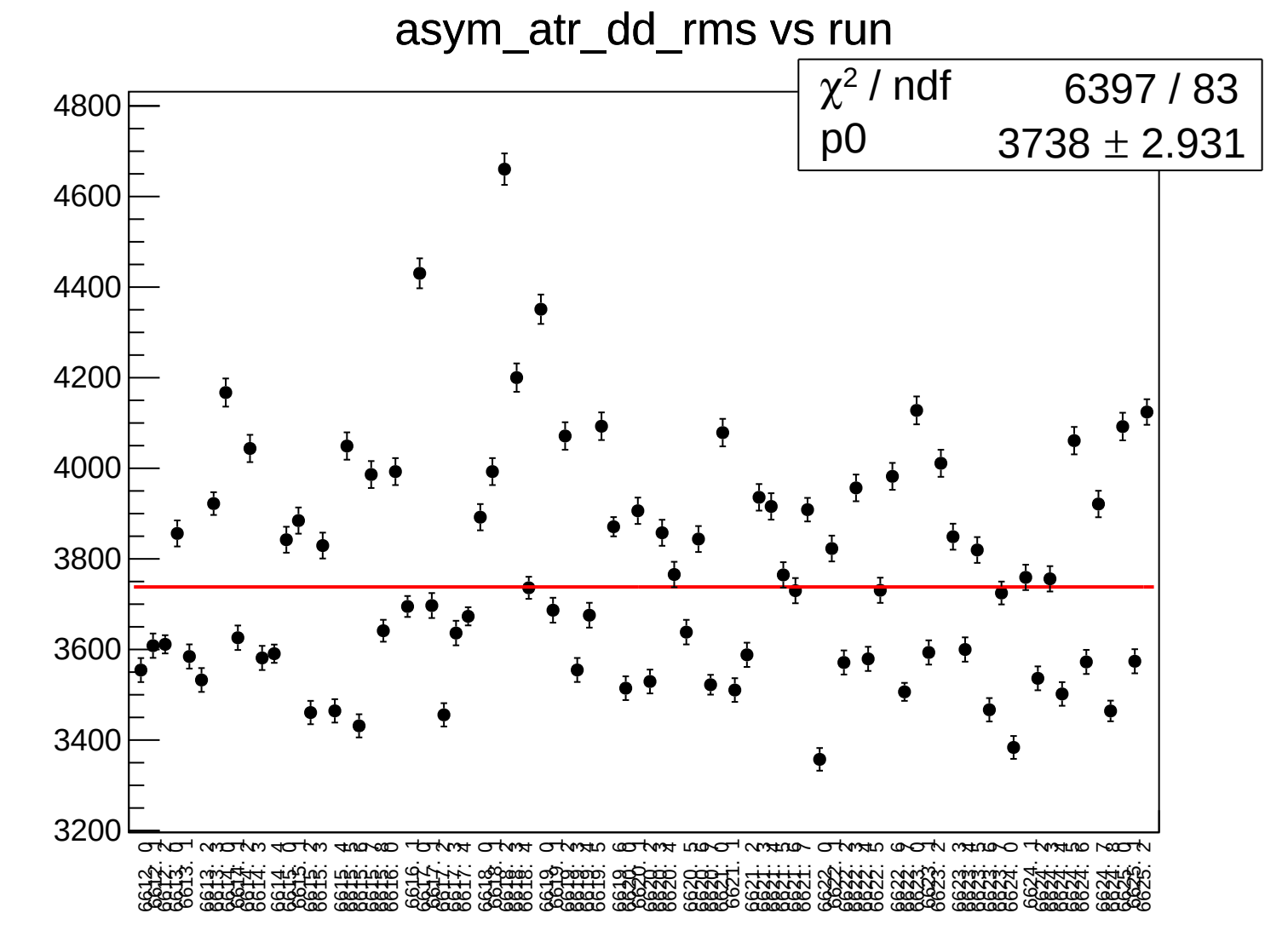

asym_atr_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.53 / 83
p0 −1391 ± 3843
pull
Entries 84
Mean −67.89
Std Dev 0

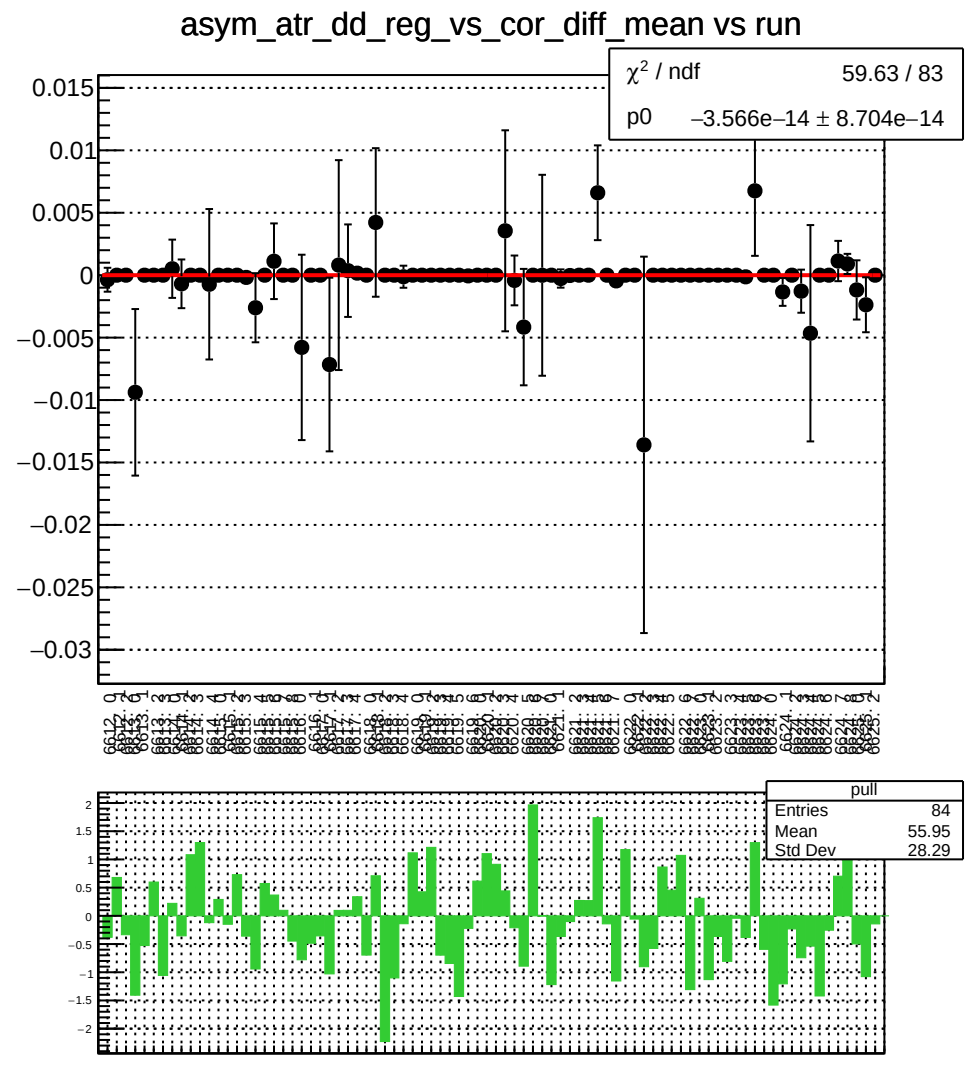

pull1D
Entries 84
Mean −0.01094
Std Dev 0.9419

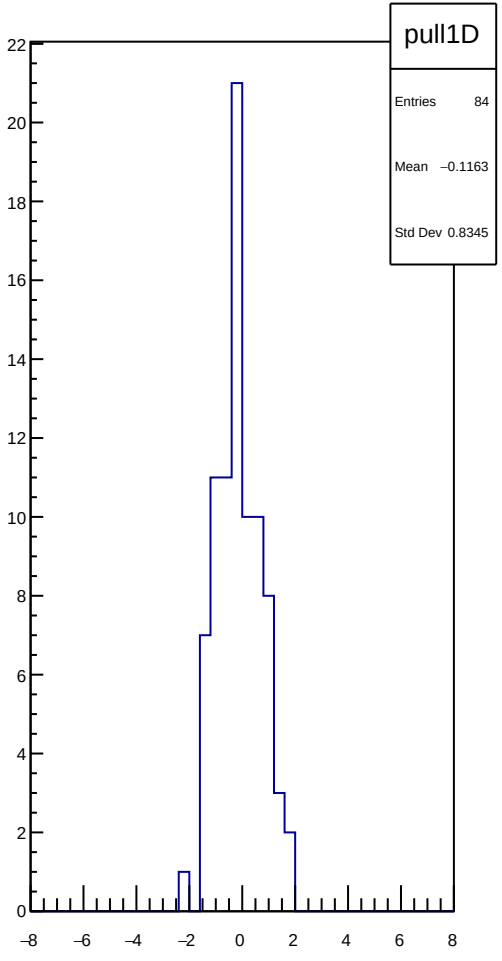

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.09e+04 / 83
p0 3461 ± 2.717
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

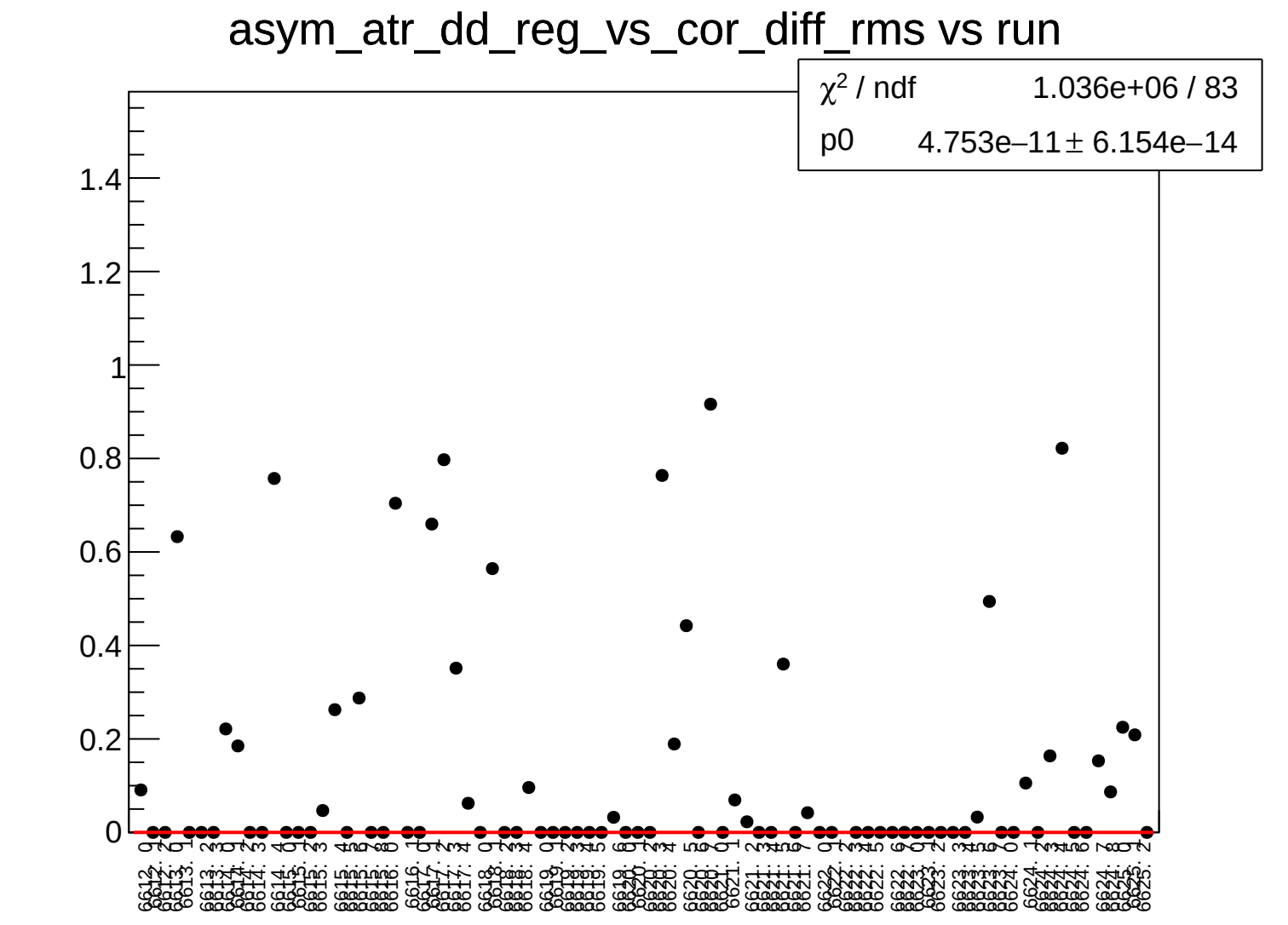

asym_atr_dd_mean vs run
×10^3
χ² / ndf 72.29 / 83
p0 −705 ± 4145
150
100
50
0
−50
−100
pull
Entries 84
Mean −120.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

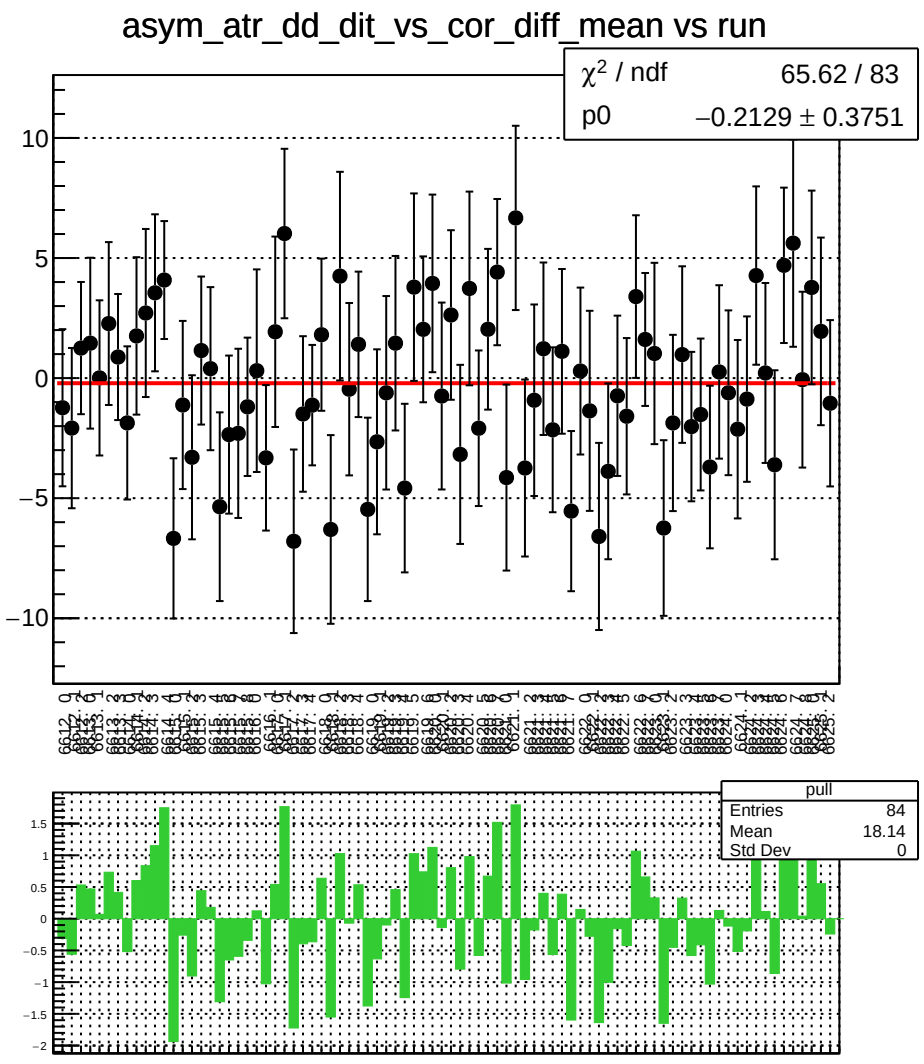

pull1D
Entries 84
Mean 0.006073
Std Dev 0.9276
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

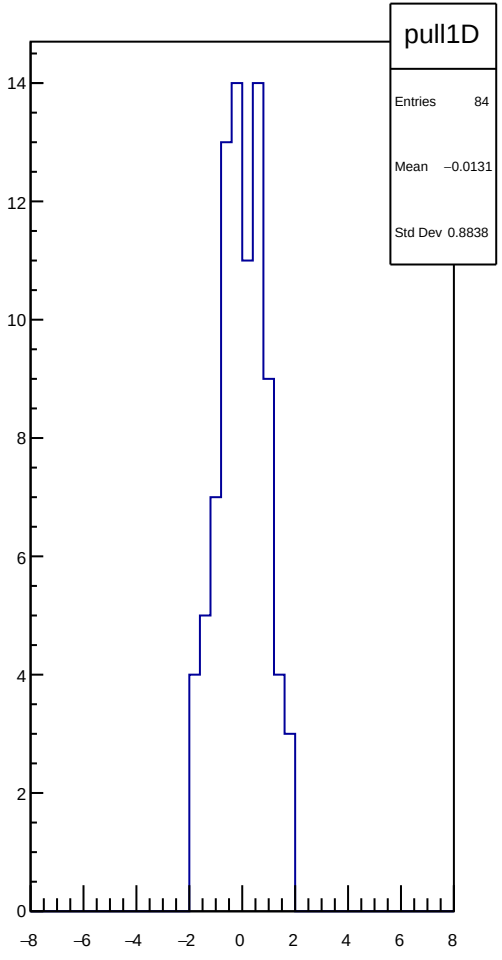

asym_atr_dd_rms vs run
χ² / ndf 6397 / 83
p0 3738 ± 2.931
4800
4600
4400
4200
4000
3800
3600
3400
3200

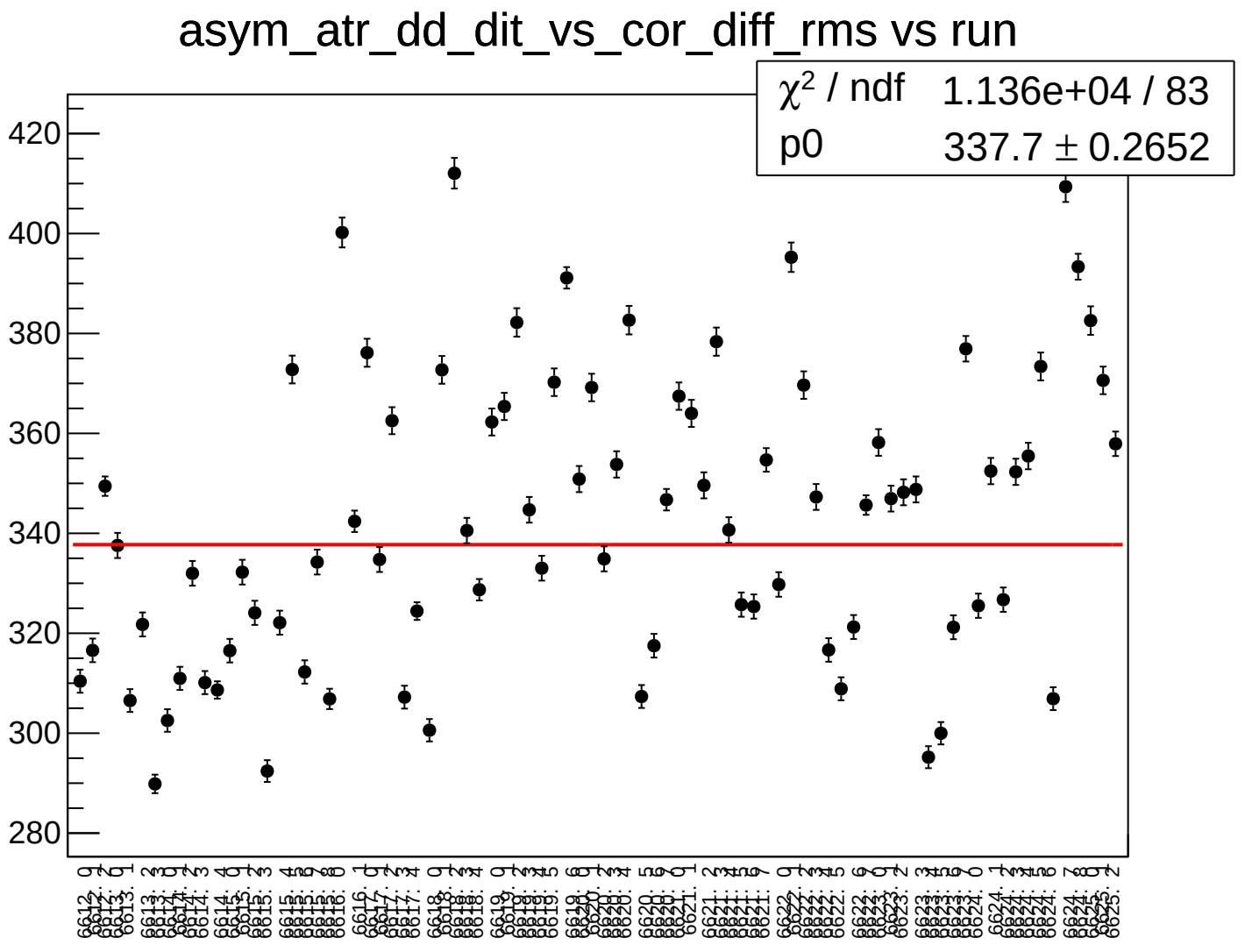

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 59.63 / 83
p0 −3.566e−14 ± 8.704e−14
pull
Entries 84
Mean 55.95
Std Dev 28.29

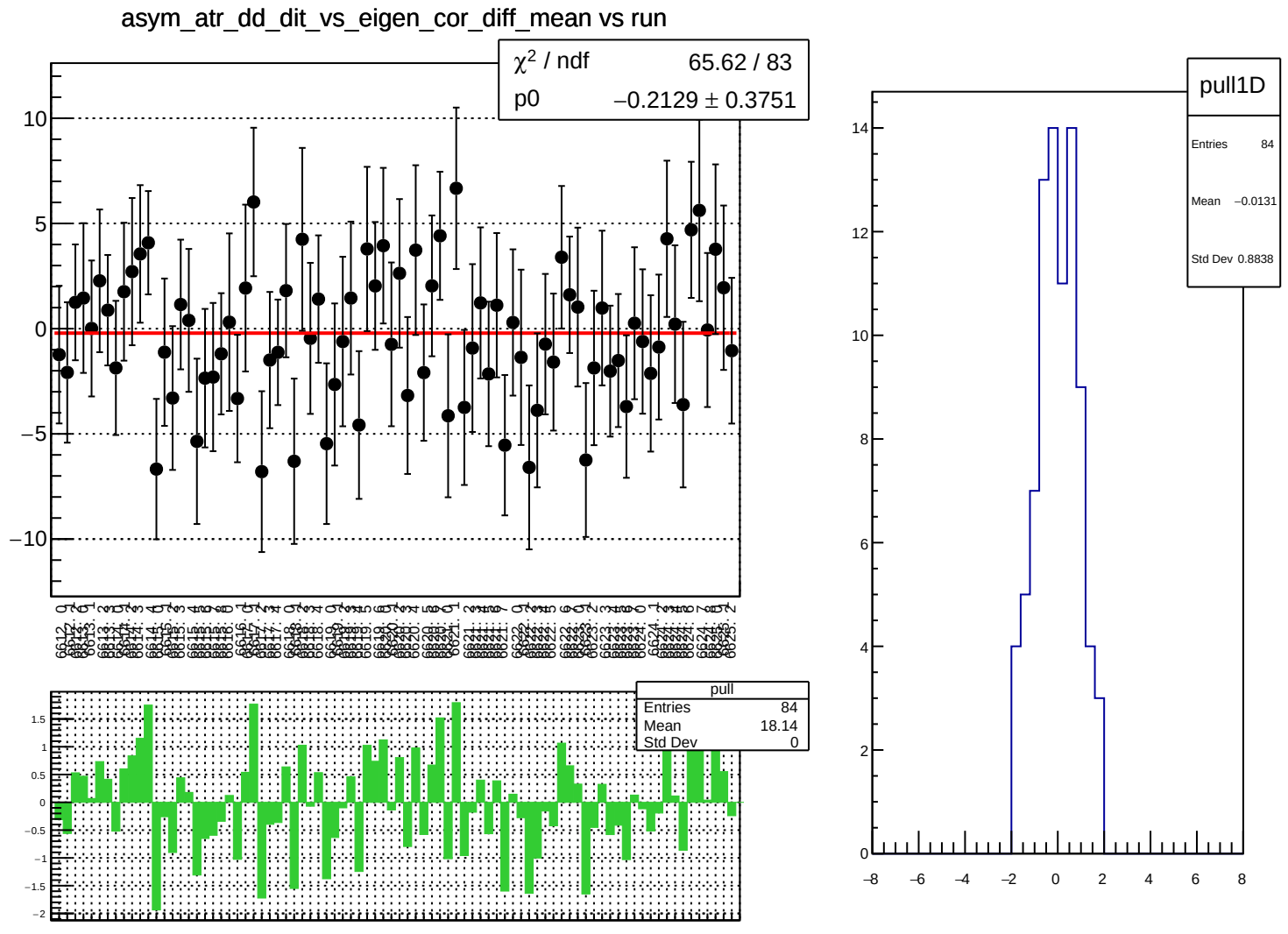

pull1D
Entries 84
Mean −0.1163
Std Dev 0.8345

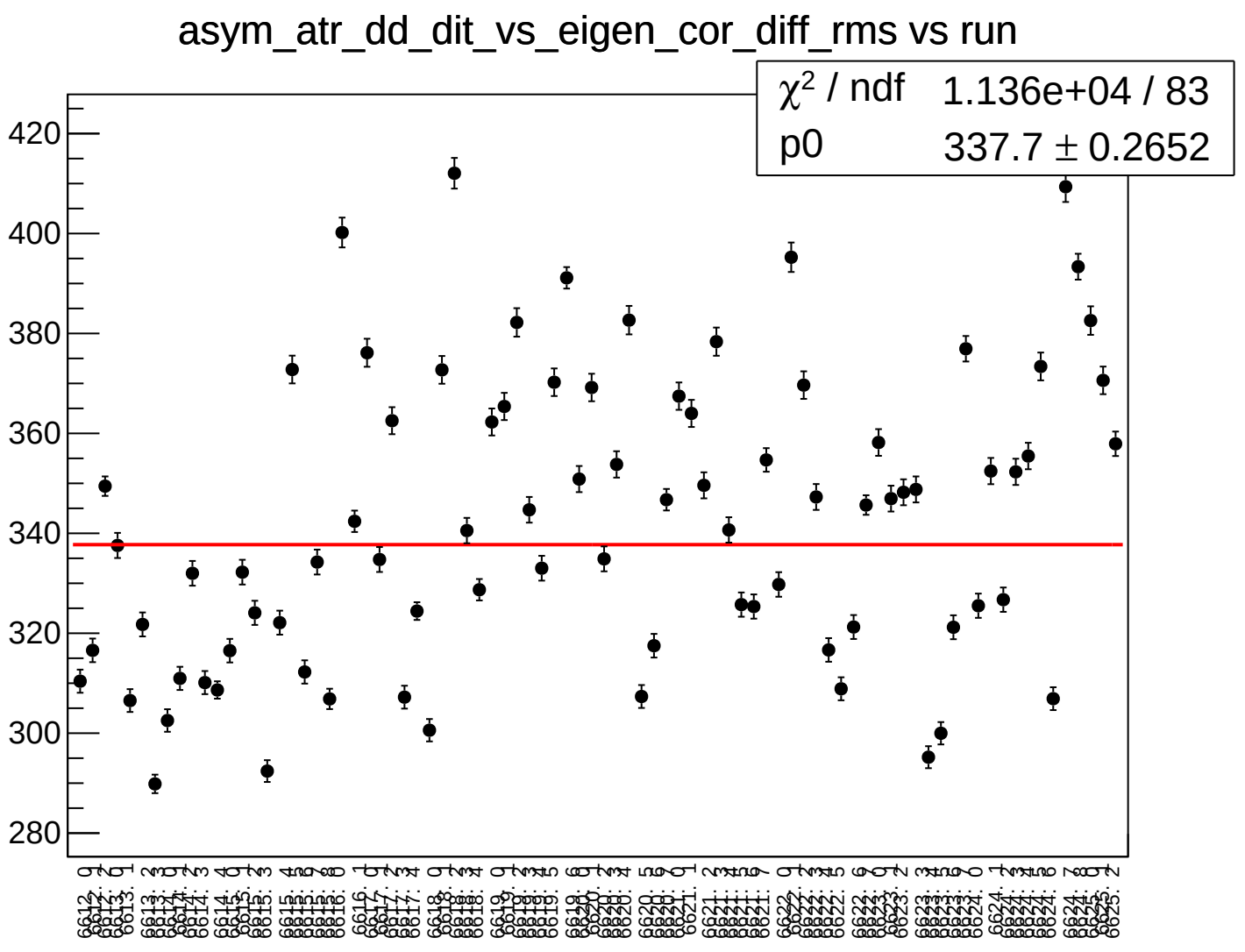

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.036e+06 / 83
p0 4.753e−11 ± 6.154e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

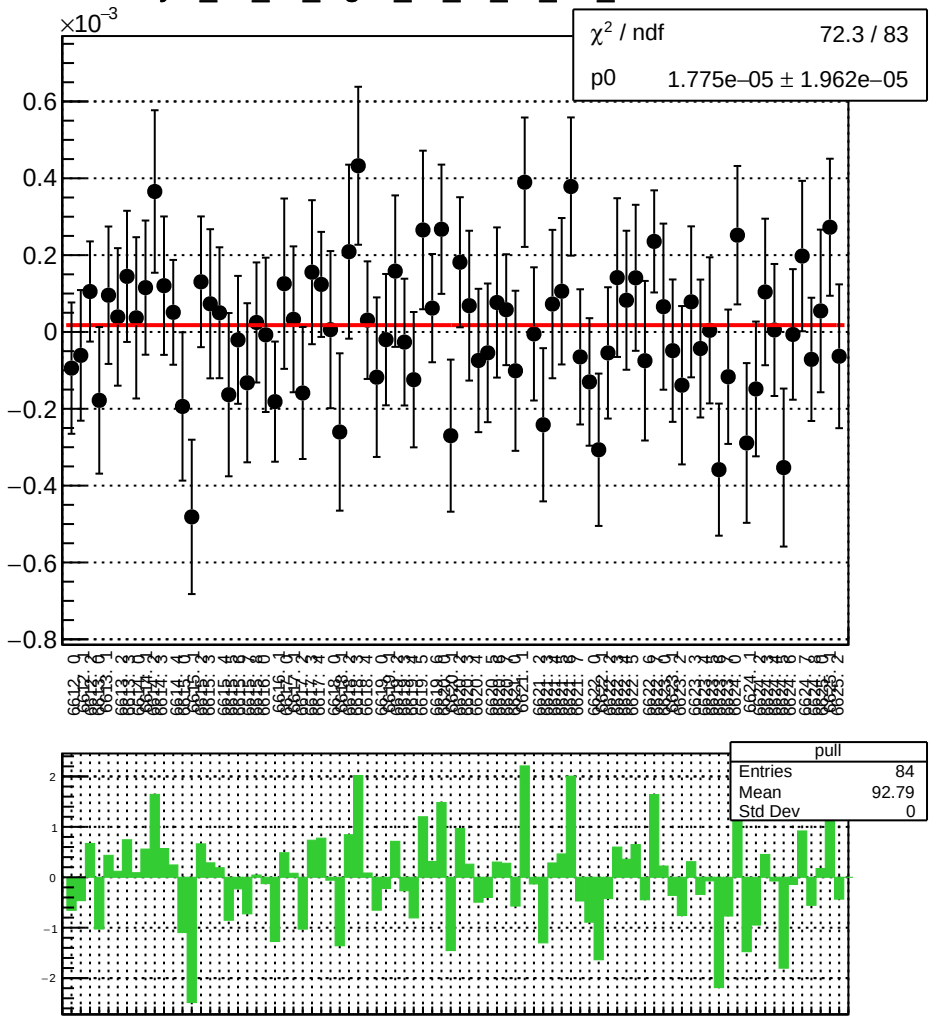

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 65.62 / 83
p0 −0.2129 ± 0.3751
pull
Entries 84
Mean 18.14
Std Dev 0

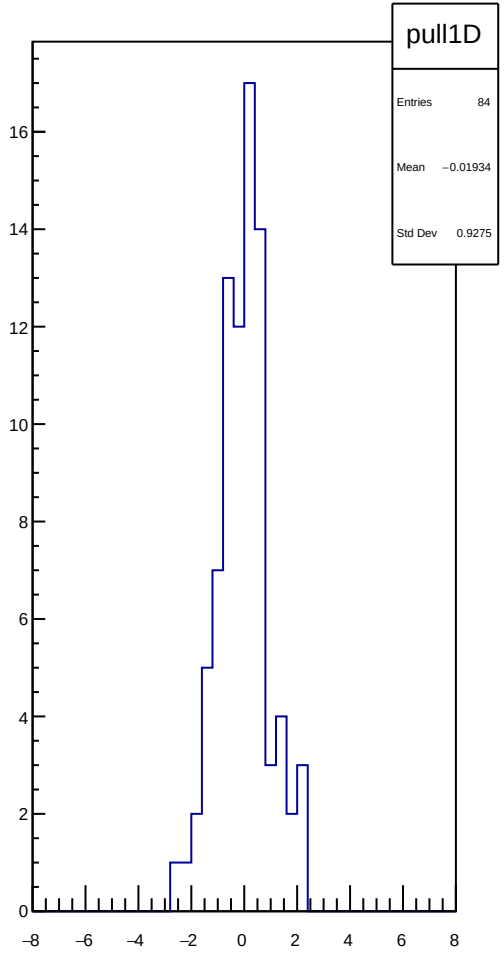

pull1D
Entries 84
Mean −0.0131
Std Dev 0.8838

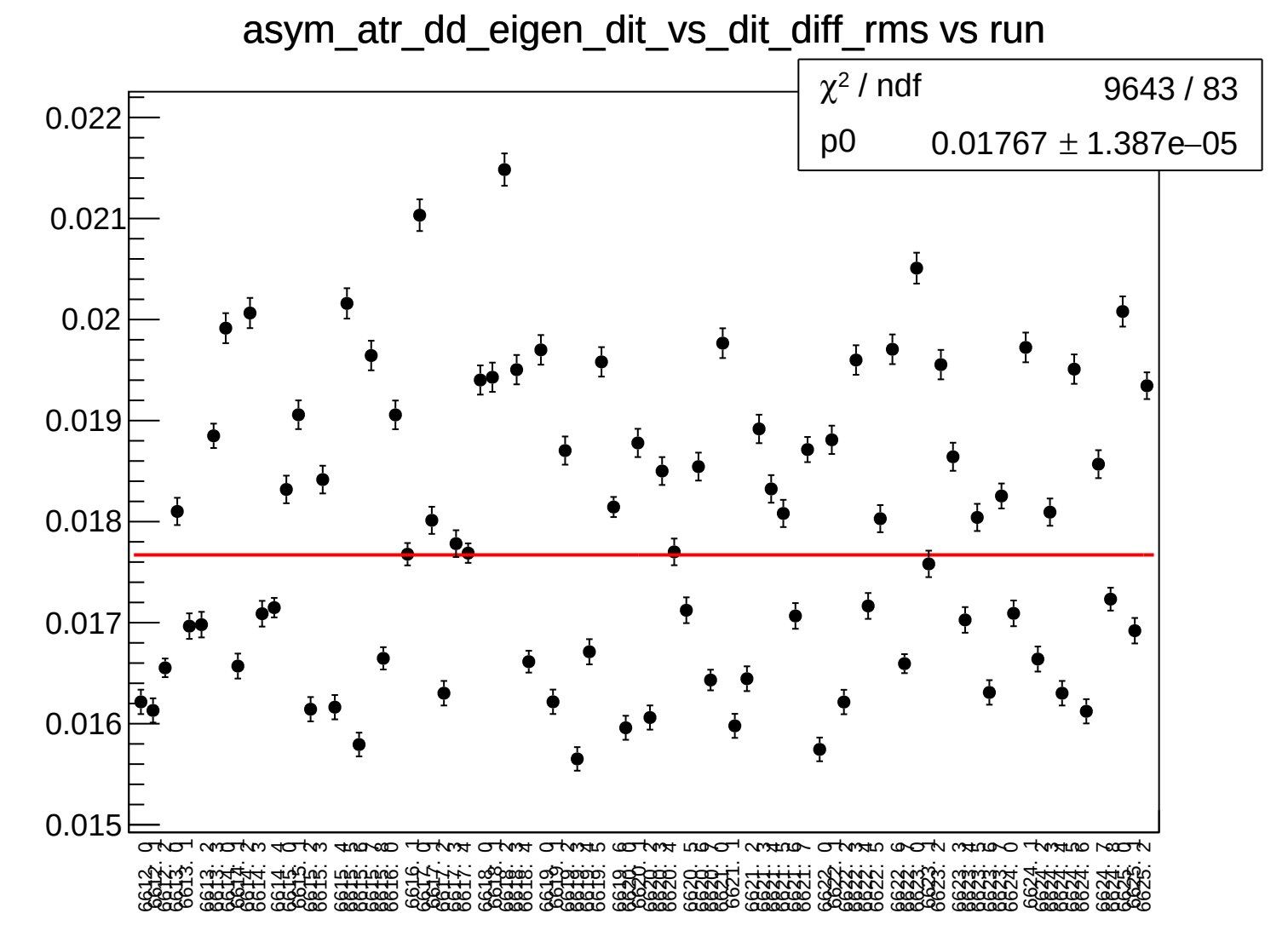

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.136e+04 / 83
p0 337.7 ± 0.2652
420
400
380
360
340
320
300
280

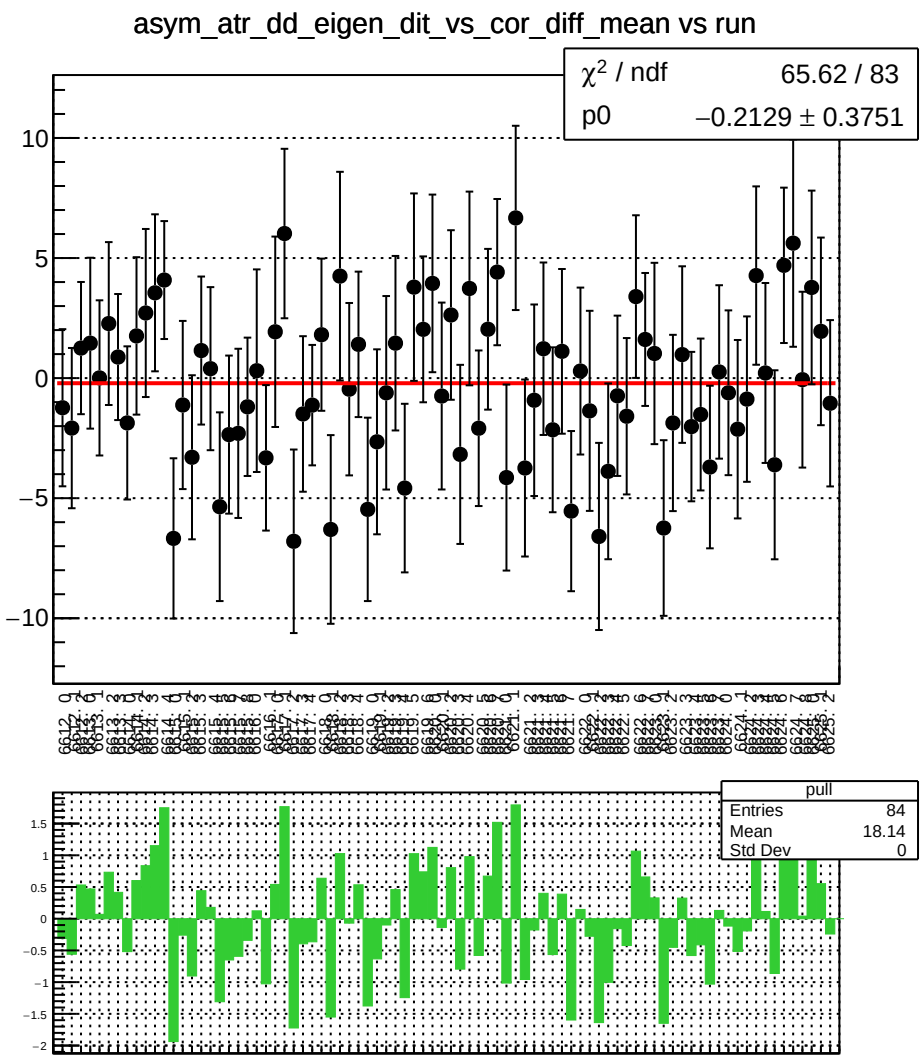

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.62 / 83
p0 −0.2129 ± 0.3751
pull
Entries 84
Mean 18.14
Std Dev 0
pull1D
Entries 84
Mean −0.0131
Std Dev 0.8838

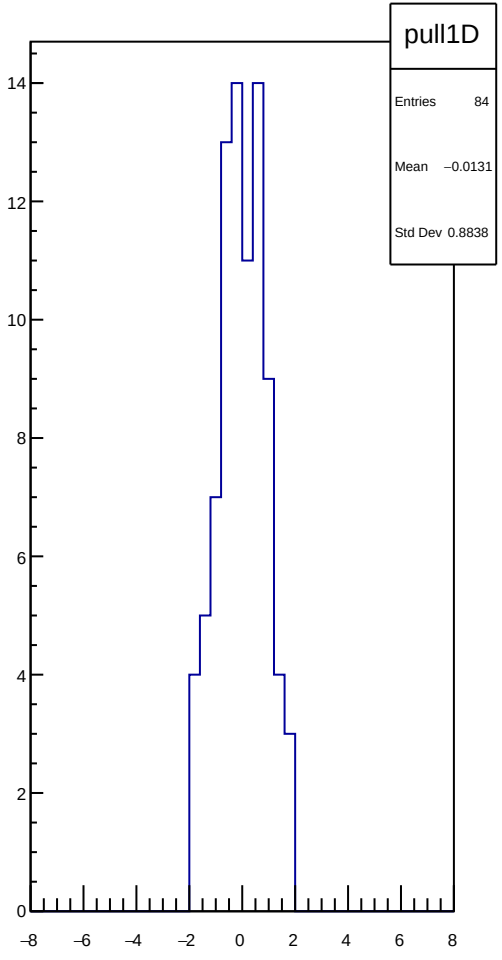

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.136e+04 / 83
p0 337.7 ± 0.2652
420
400
380
360
340
320
300
280

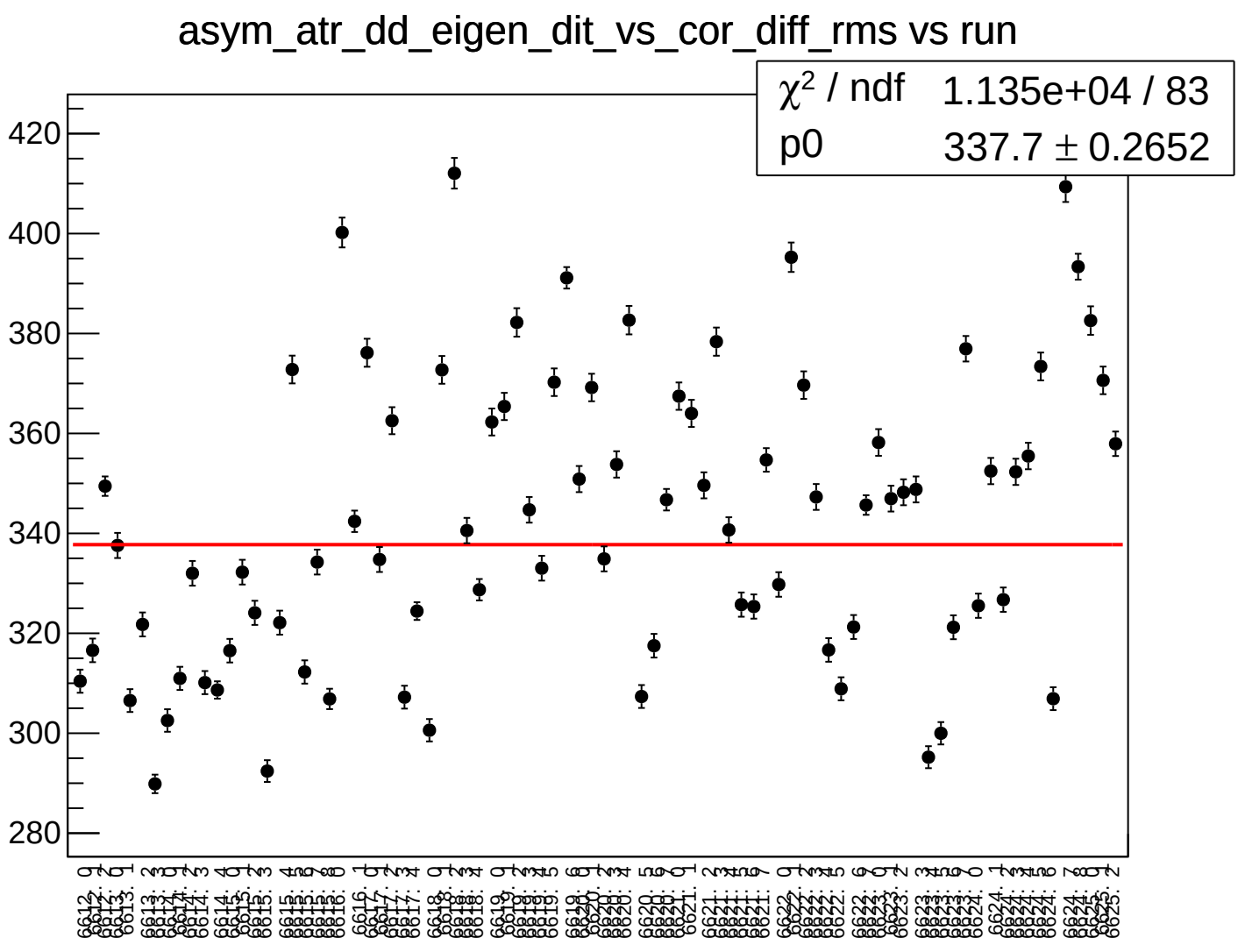

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.3 / 83
p0 1.775e−05 ± 1.962e−05
pull
Entries 84
Mean 92.79
Std Dev 0

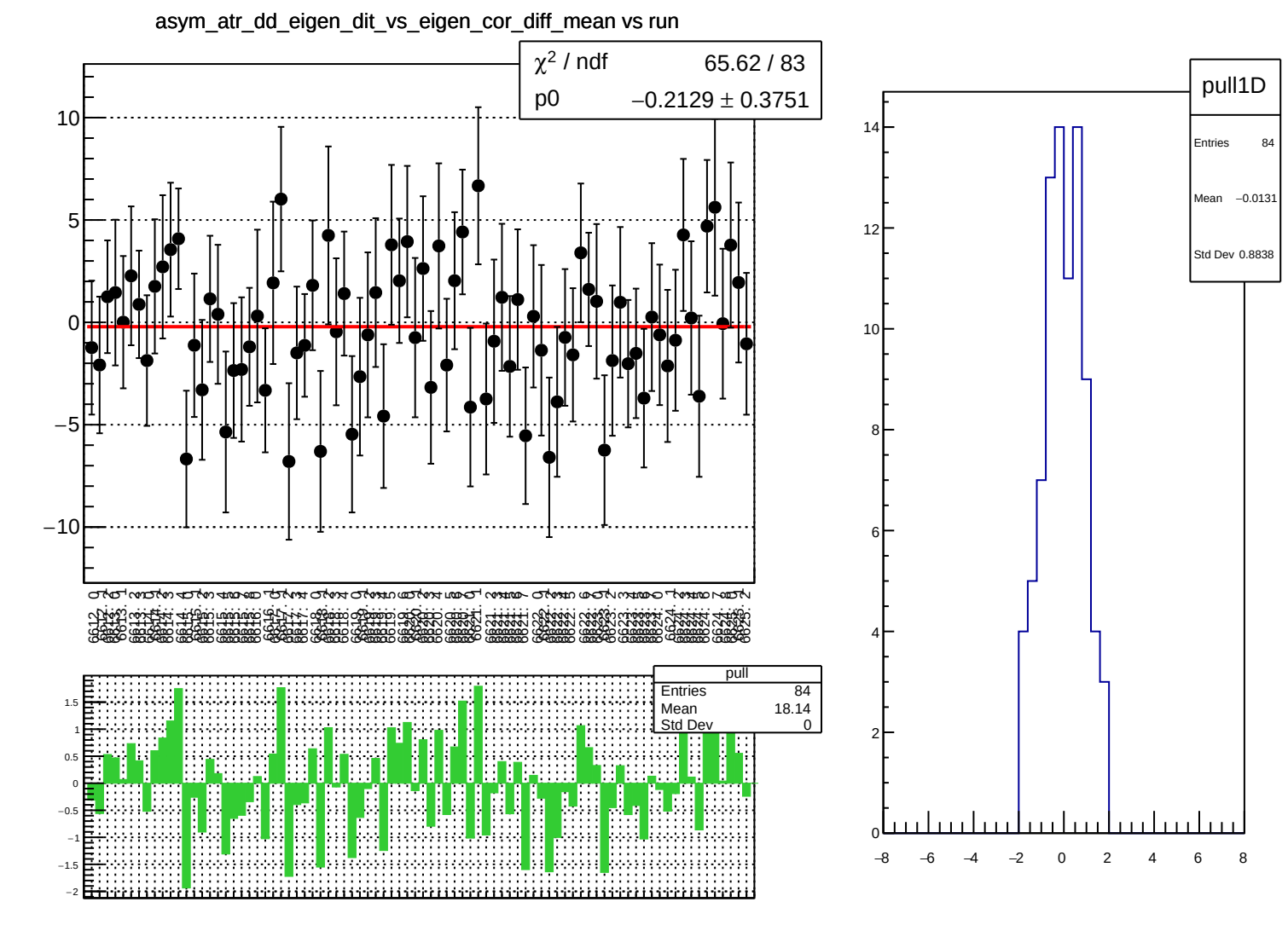

pull1D
Entries 84
Mean −0.01934
Std Dev 0.9275

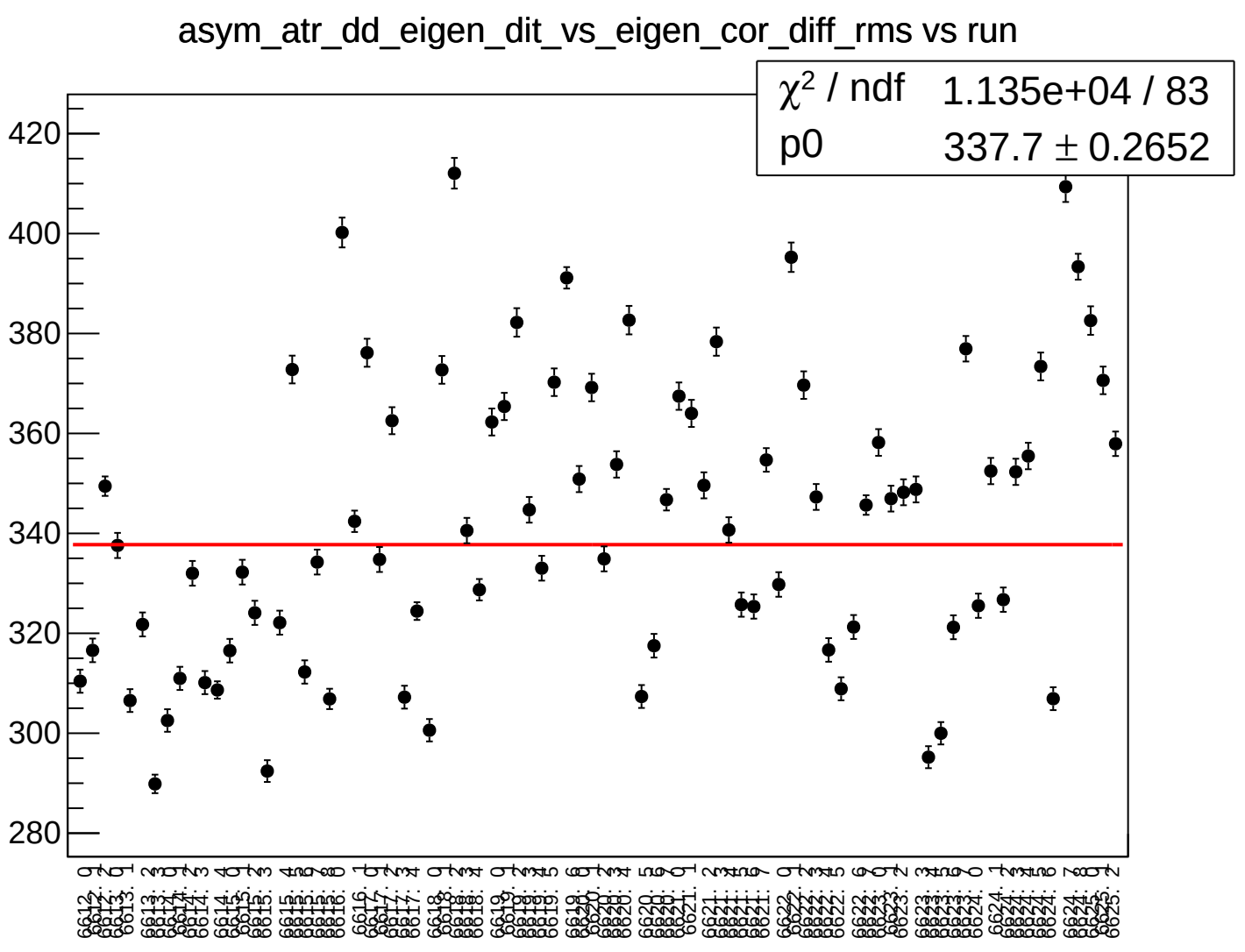

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9643 / 83
p0 0.01767 ± 1.387e–05
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015

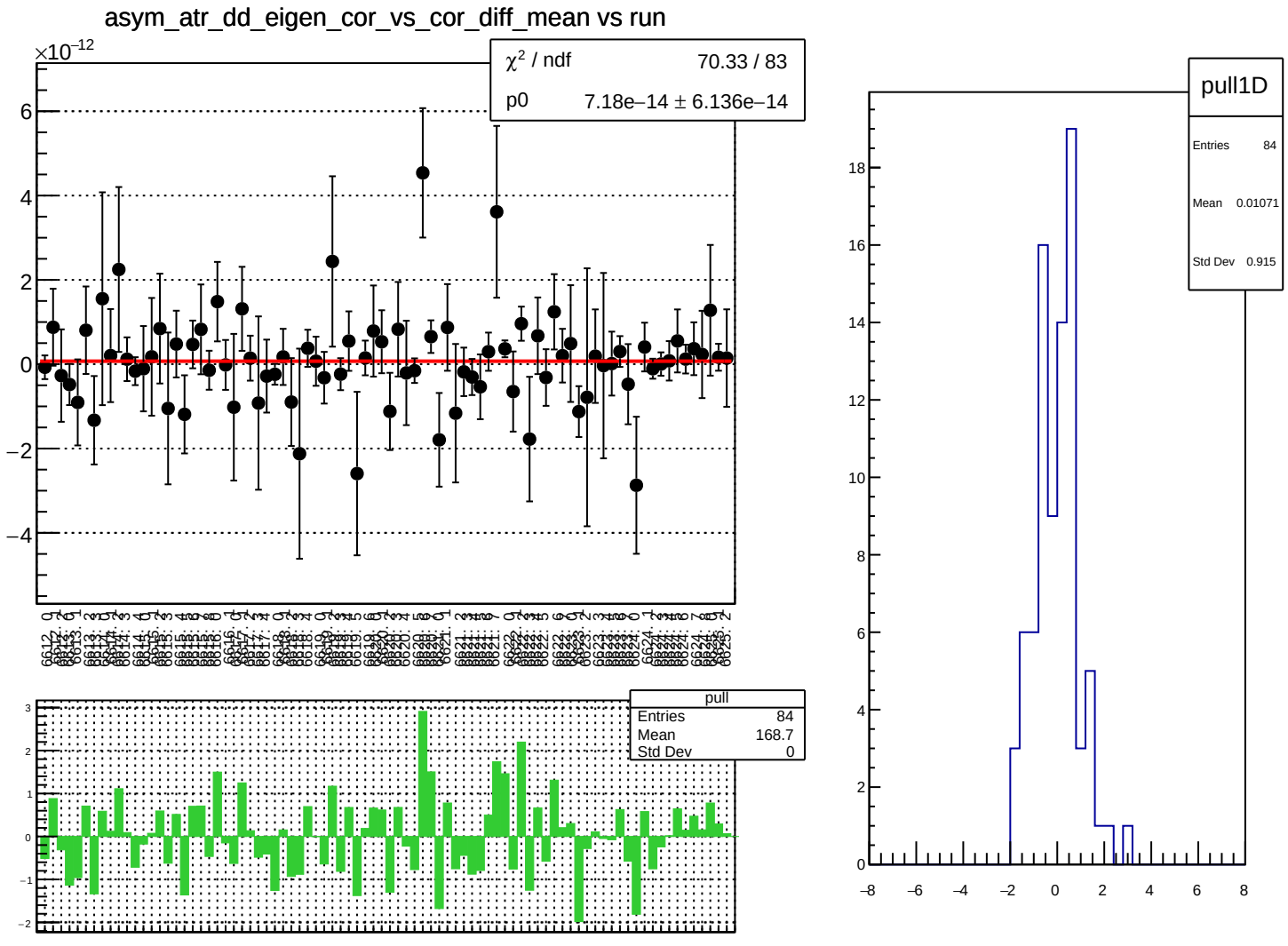

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.62 / 83
p0 −0.2129 ± 0.3751
pull
Entries 84
Mean 18.14
Std Dev 0

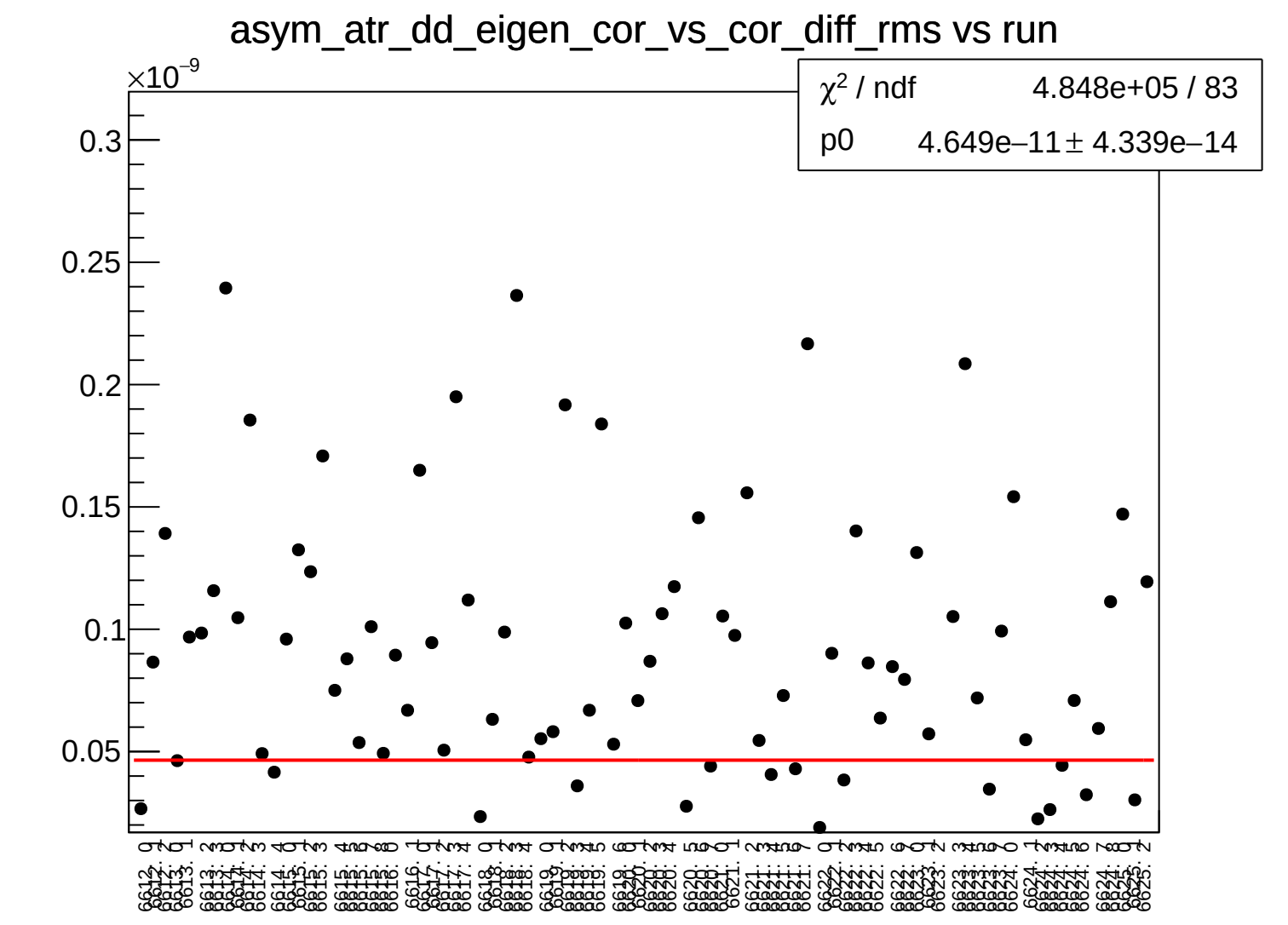

pull1D
Entries 84
Mean −0.0131
Std Dev 0.8838

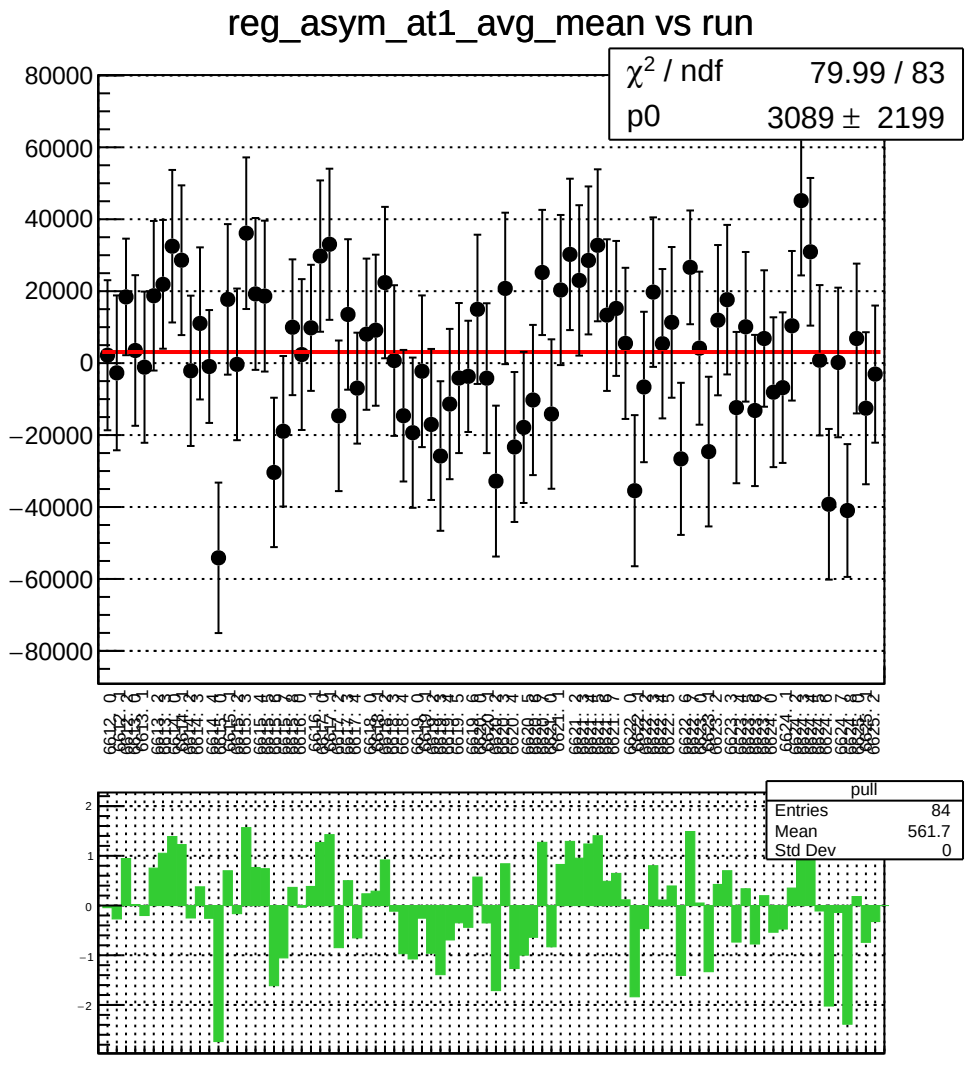

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.135e+04 / 83
p0 337.7 ± 0.2652
420
400
380
360
340
320
300
280

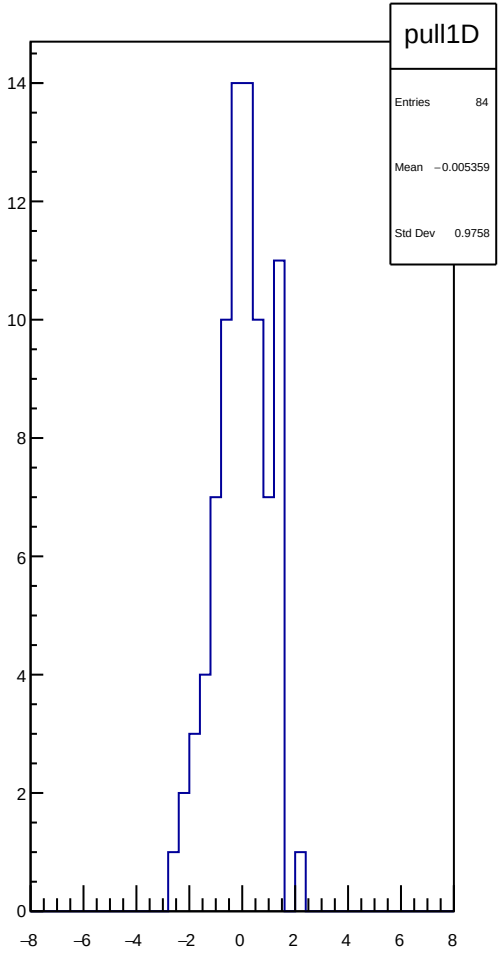

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.62 / 83
p0 −0.2129 ± 0.3751
pull
Entries 84
Mean 18.14
Std Dev 0
pull1D
Entries 84
Mean −0.0131
Std Dev 0.8838

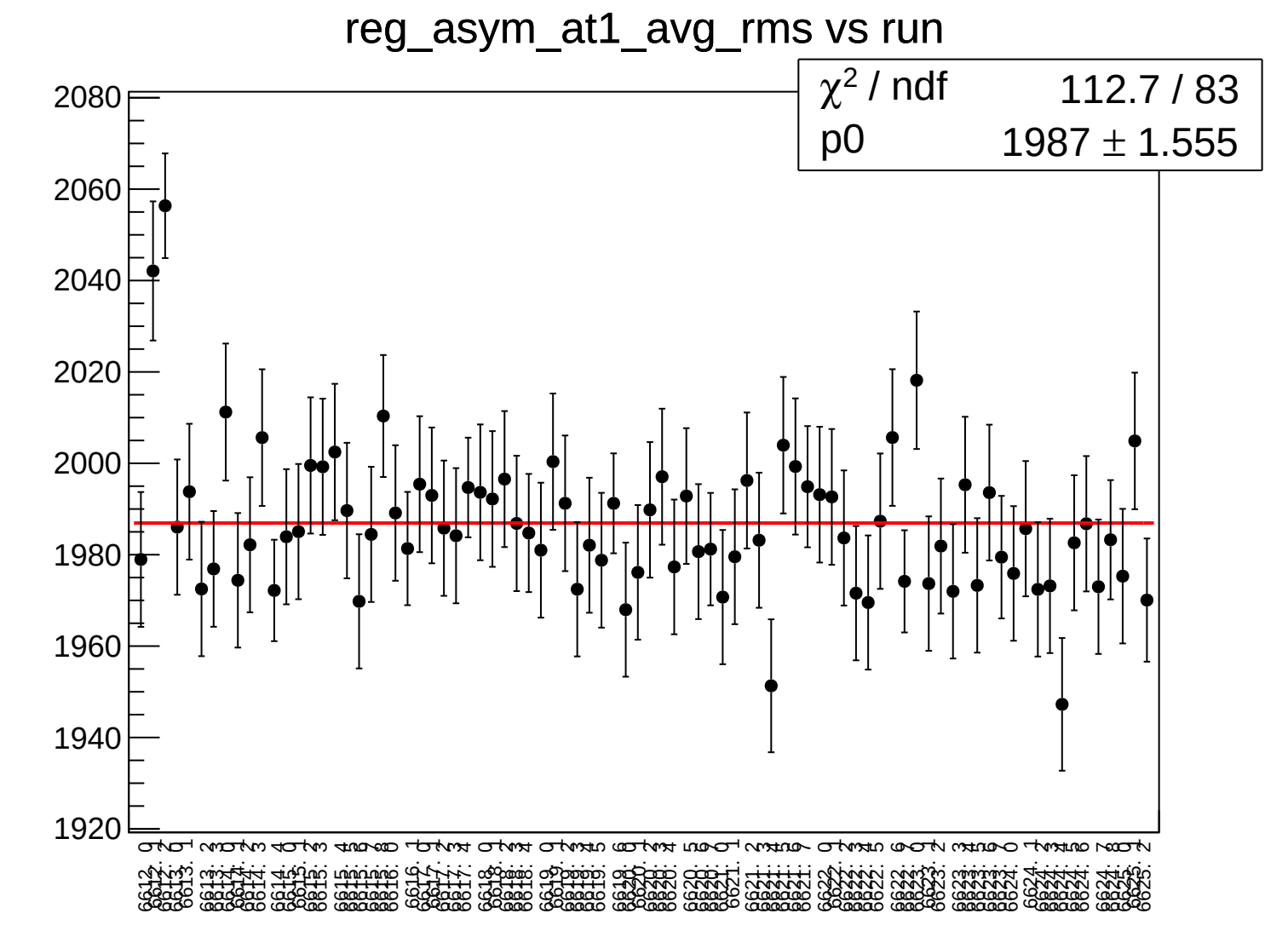

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.135e+04 / 83
p0 337.7 ± 0.2652
420
400
380
360
340
320
300
280

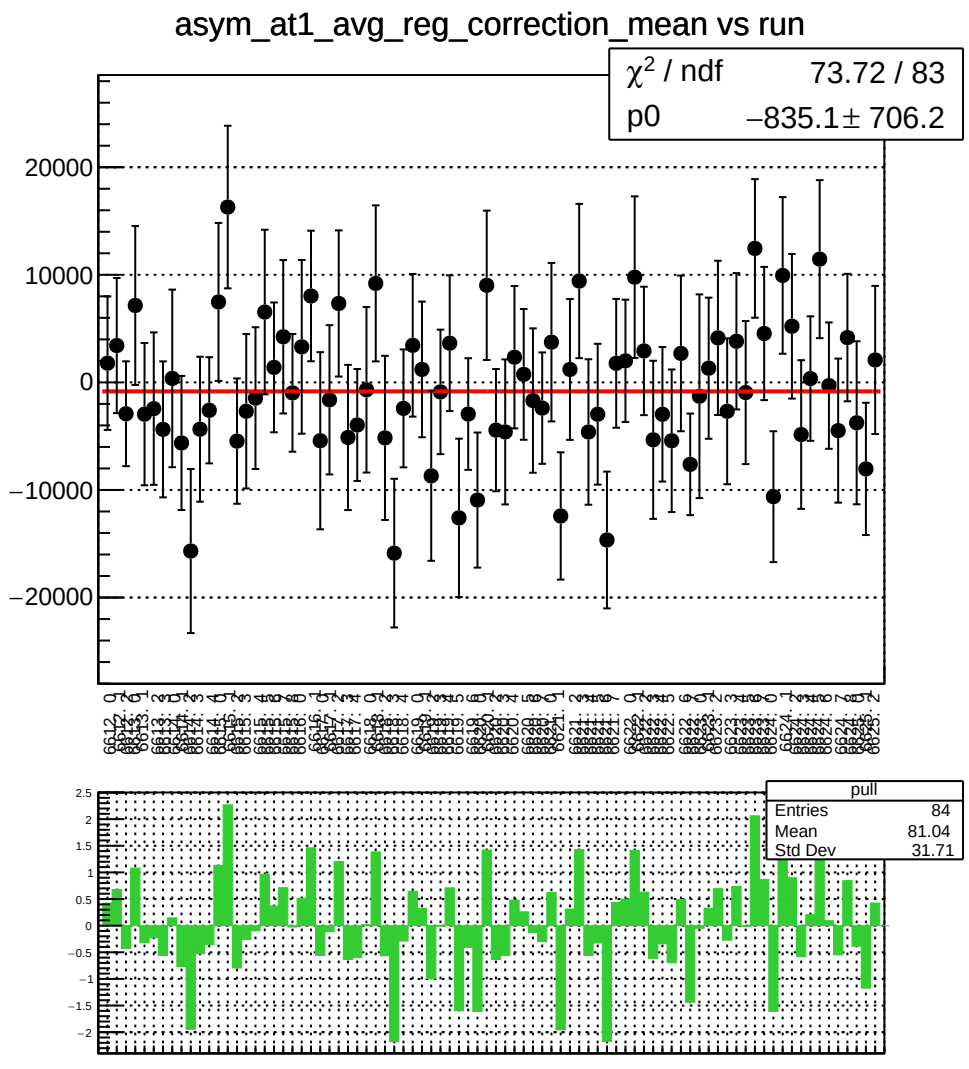

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.33 / 83
p0 7.18e−14 ± 6.136e−14
pull
Entries 84
Mean 168.7
Std Dev 0
pull1D
Entries 84
Mean 0.01071
Std Dev 0.915

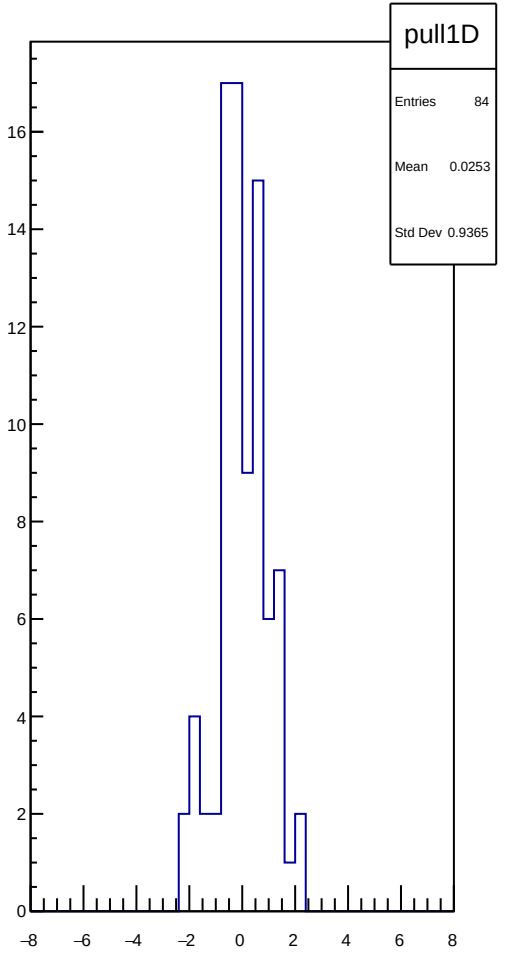

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.848e+05 / 83
p0 4.649e−11 ± 4.339e−14
0.3
0.25
0.2
0.15
0.1
0.05

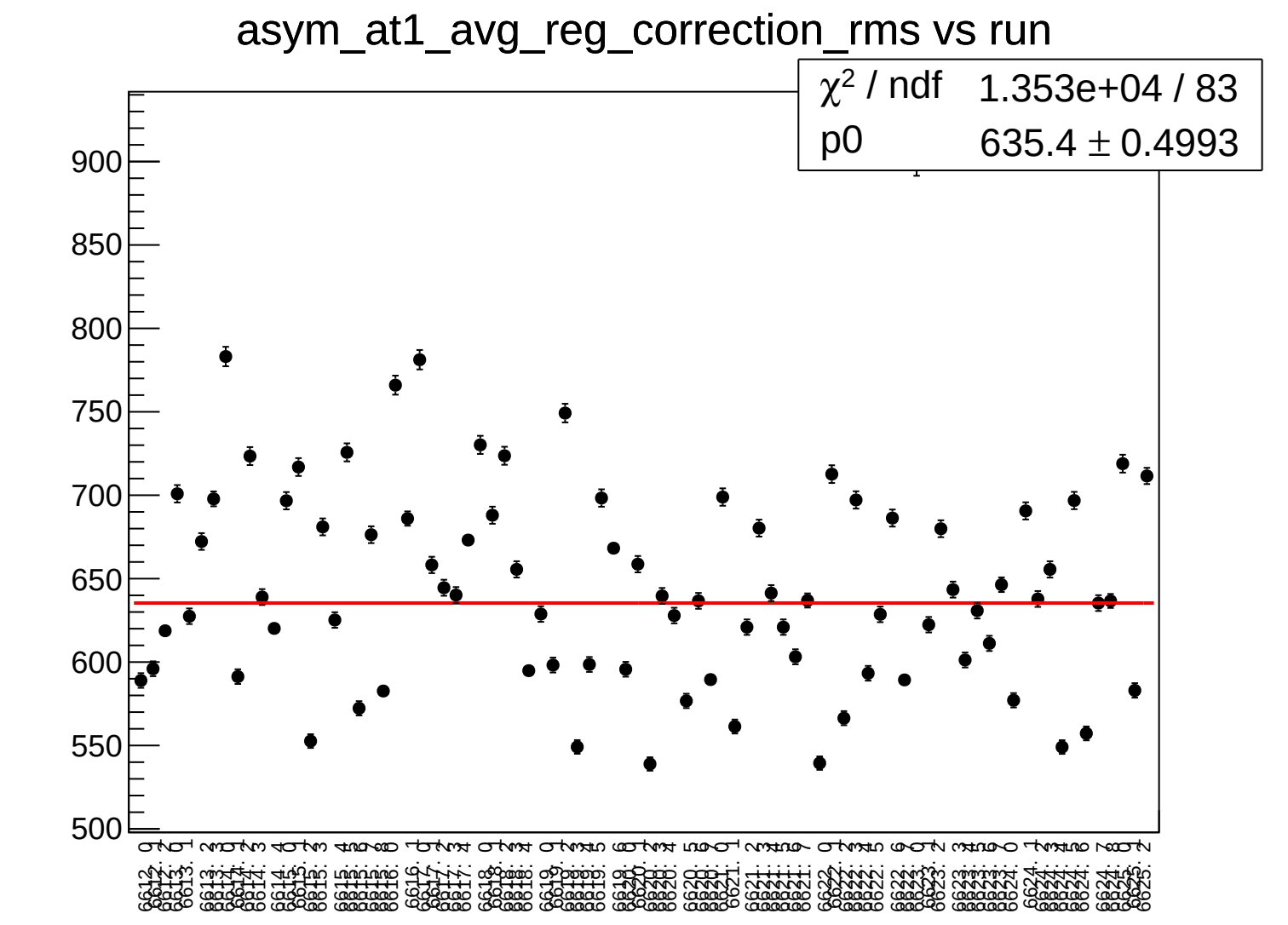

reg_asym_at1_avg_mean vs run
χ² / ndf 79.99 / 83
p0 3089 ± 2199
pull
Entries 84
Mean 561.7
Std Dev 0

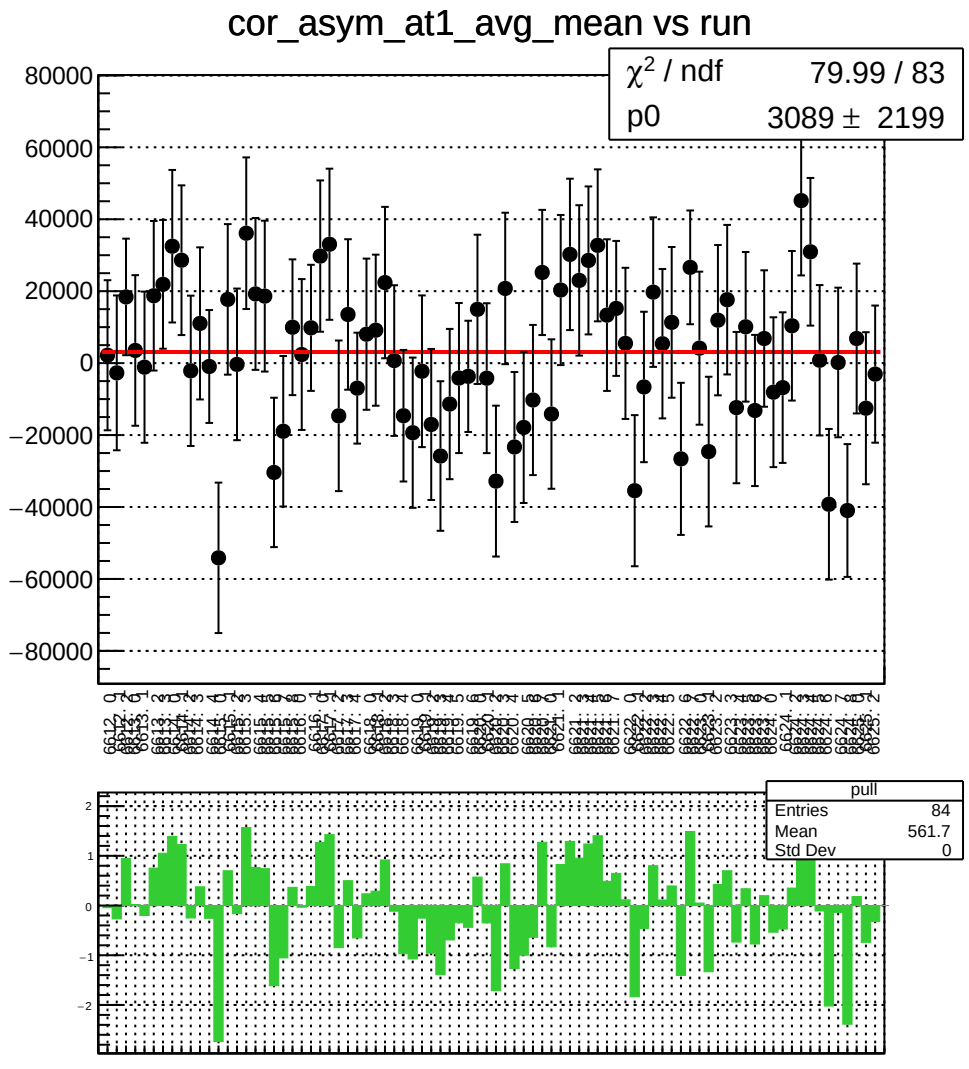

pull1D
Entries 84
Mean −0.005359
Std Dev 0.9758

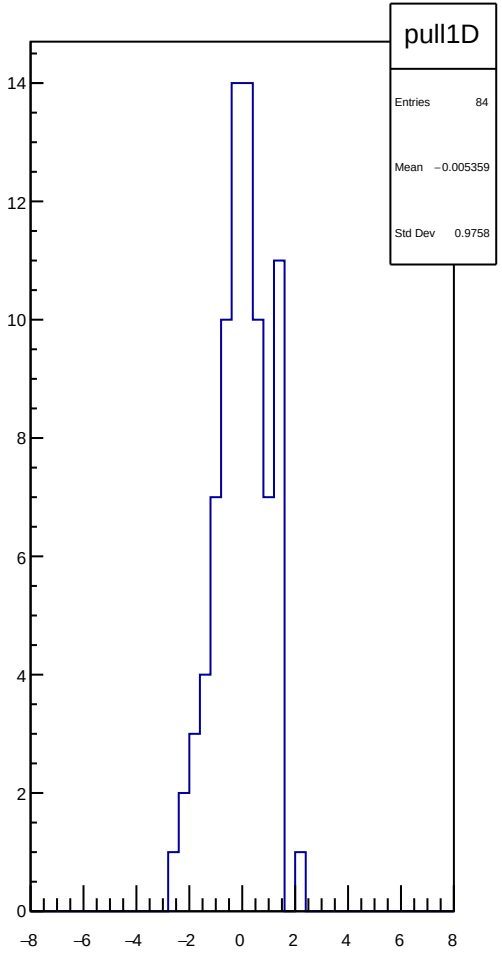

reg_asym_at1_avg_rms vs run
χ² / ndf 112.7 / 83
p0 1987 ± 1.555
2080
2060
2040
2020
2000
1980
1960
1940
1920

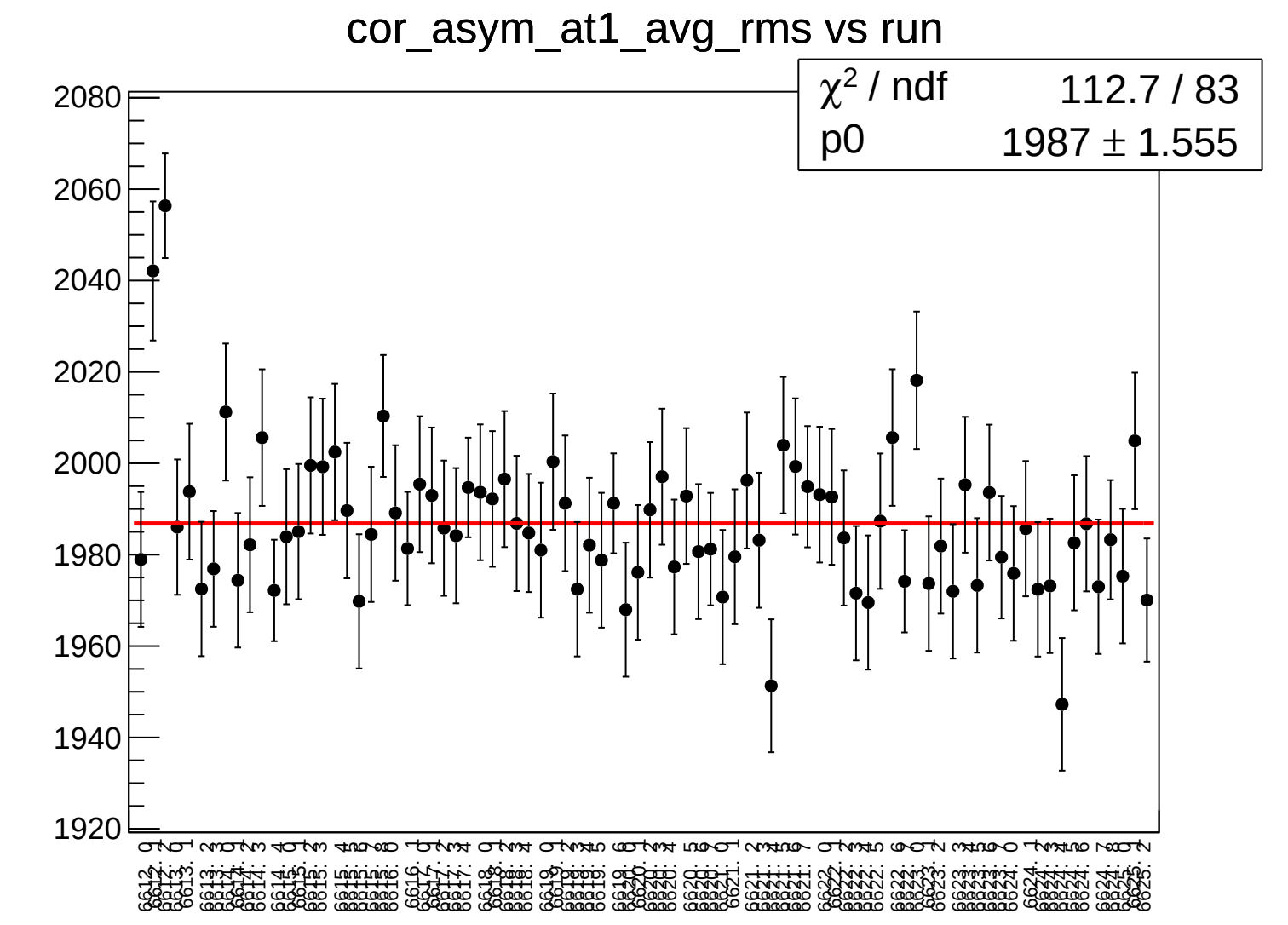

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 73.72 / 83
p0 −835.1± 706.2
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 81.04
Std Dev 31.71
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

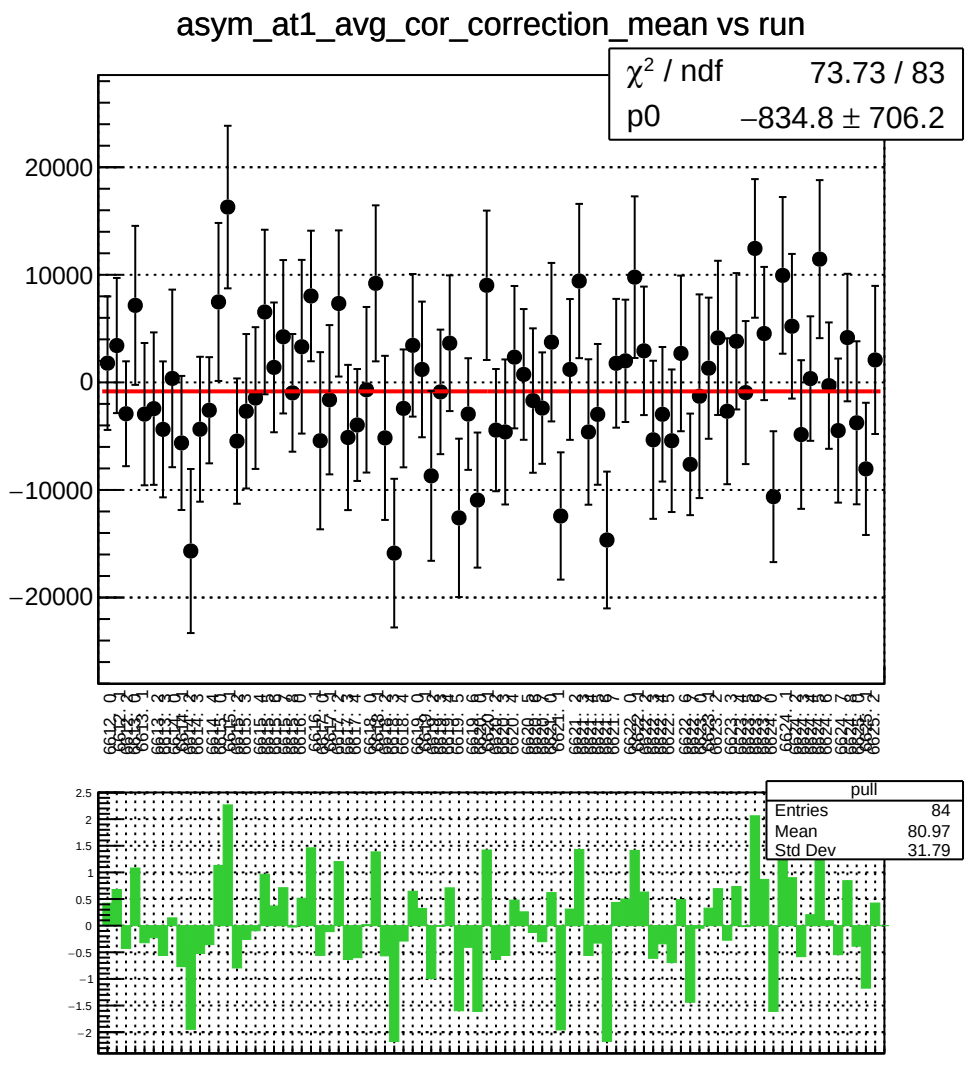

pull1D
Entries 84
Mean 0.0253
Std Dev 0.9365
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

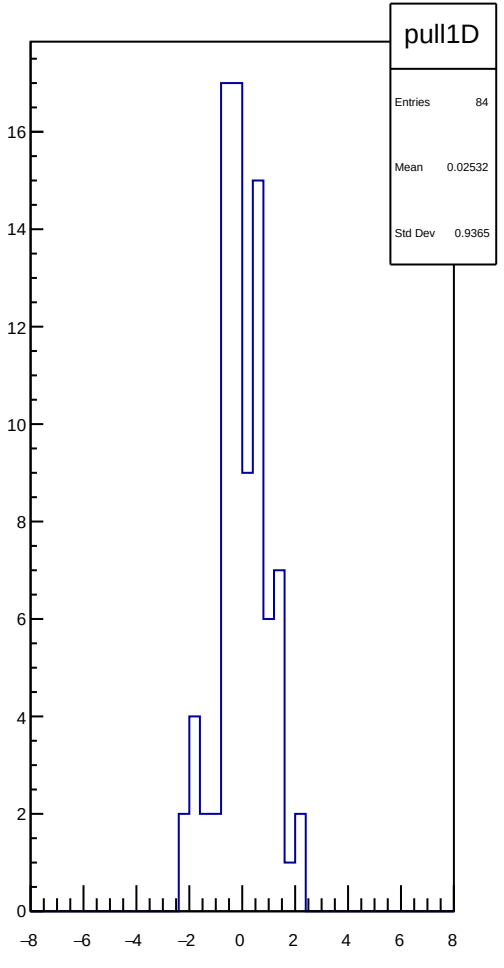

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.353e+04 / 83
p0 635.4 ± 0.4993
900
850
800
750
700
650
600
550
500

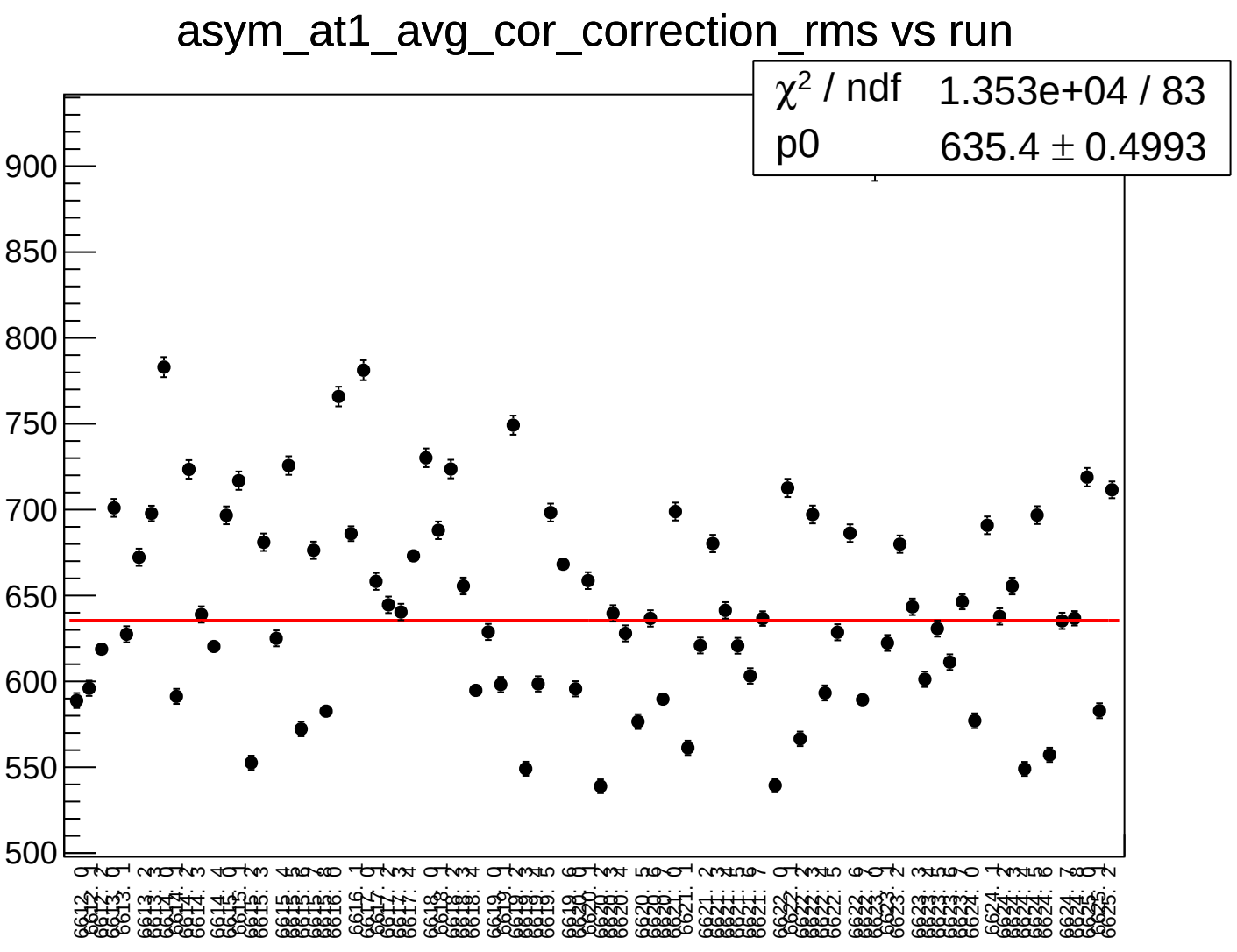

cor_asym_at1_avg_mean vs run
χ² / ndf 79.99 / 83
p0 3089 ± 2199
pull
Entries 84
Mean 561.7
Std Dev 0

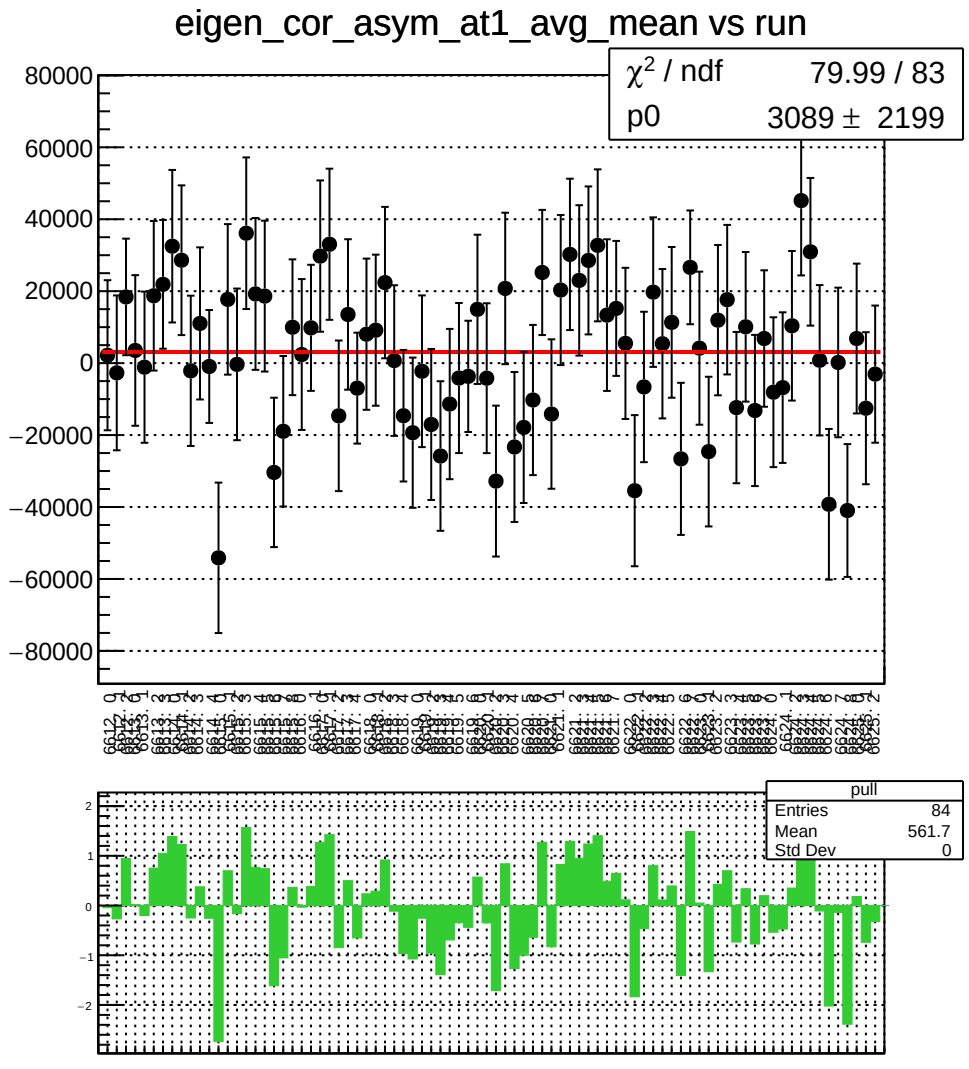

pull1D
Entries 84
Mean −0.005359
Std Dev 0.9758

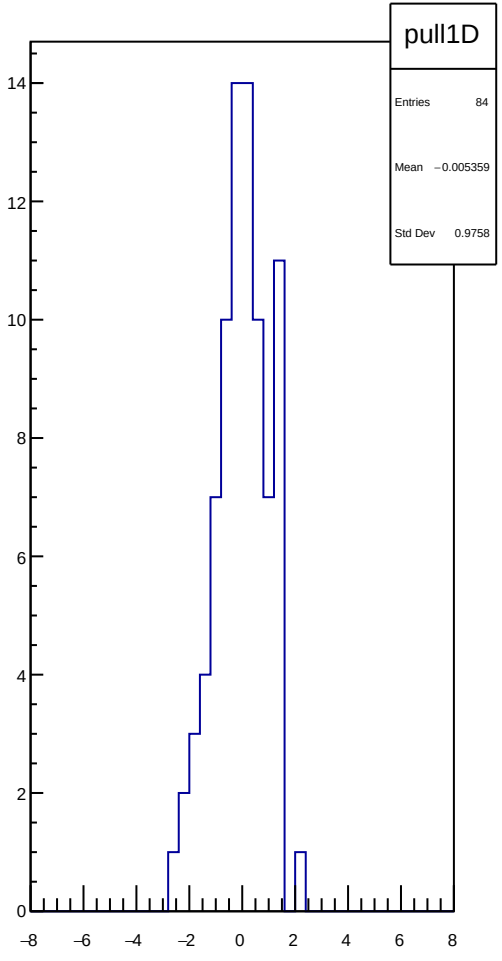

cor_asym_at1_avg_rms vs run
χ^2 / ndf 112.7 / 83
p0 1987 ± 1.555
2080
2060
2040
2020
2000
1980
1960
1940
1920

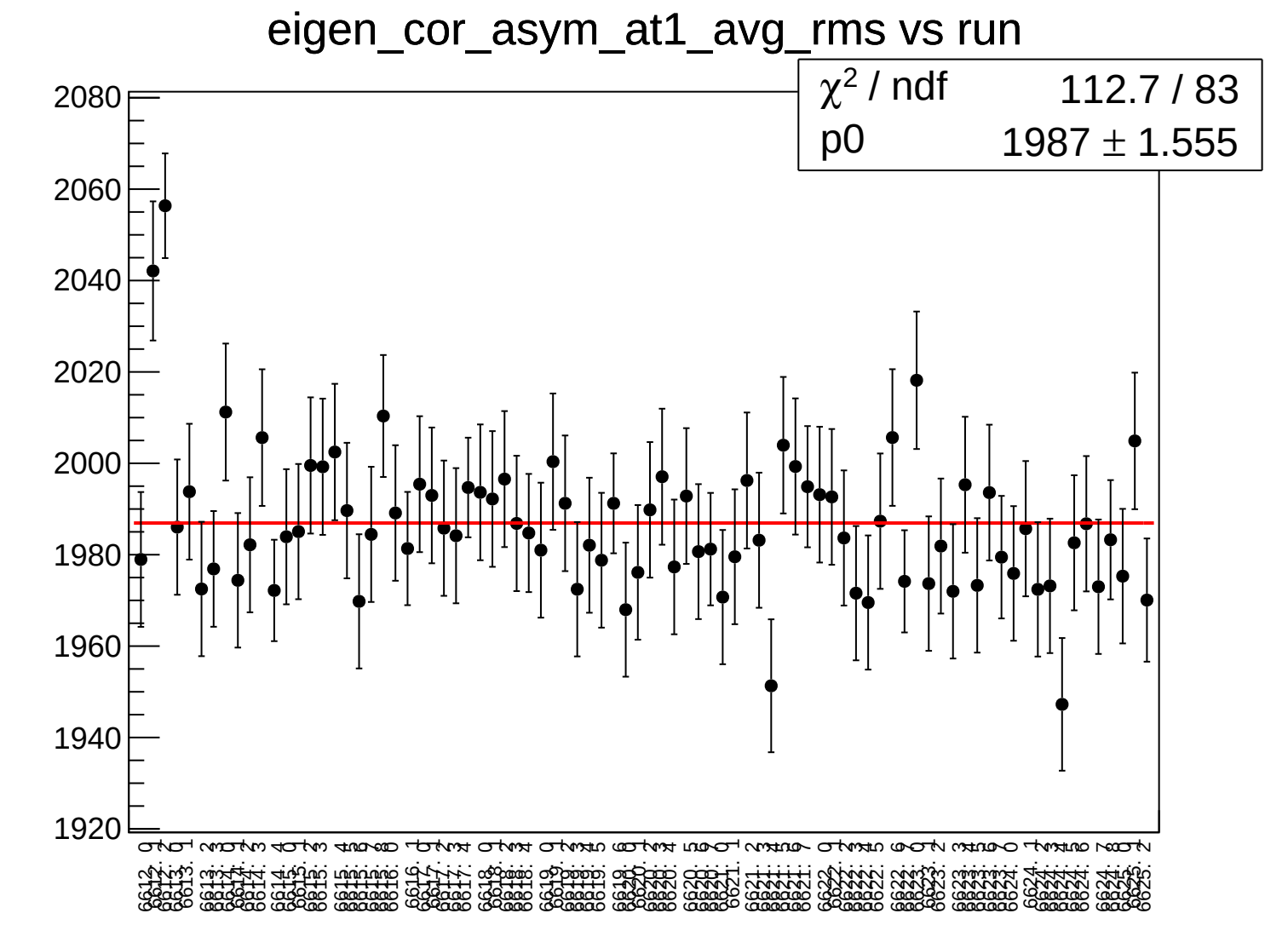

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 73.73 / 83
p0 −834.8 ± 706.2
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 80.97
Std Dev 31.79
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

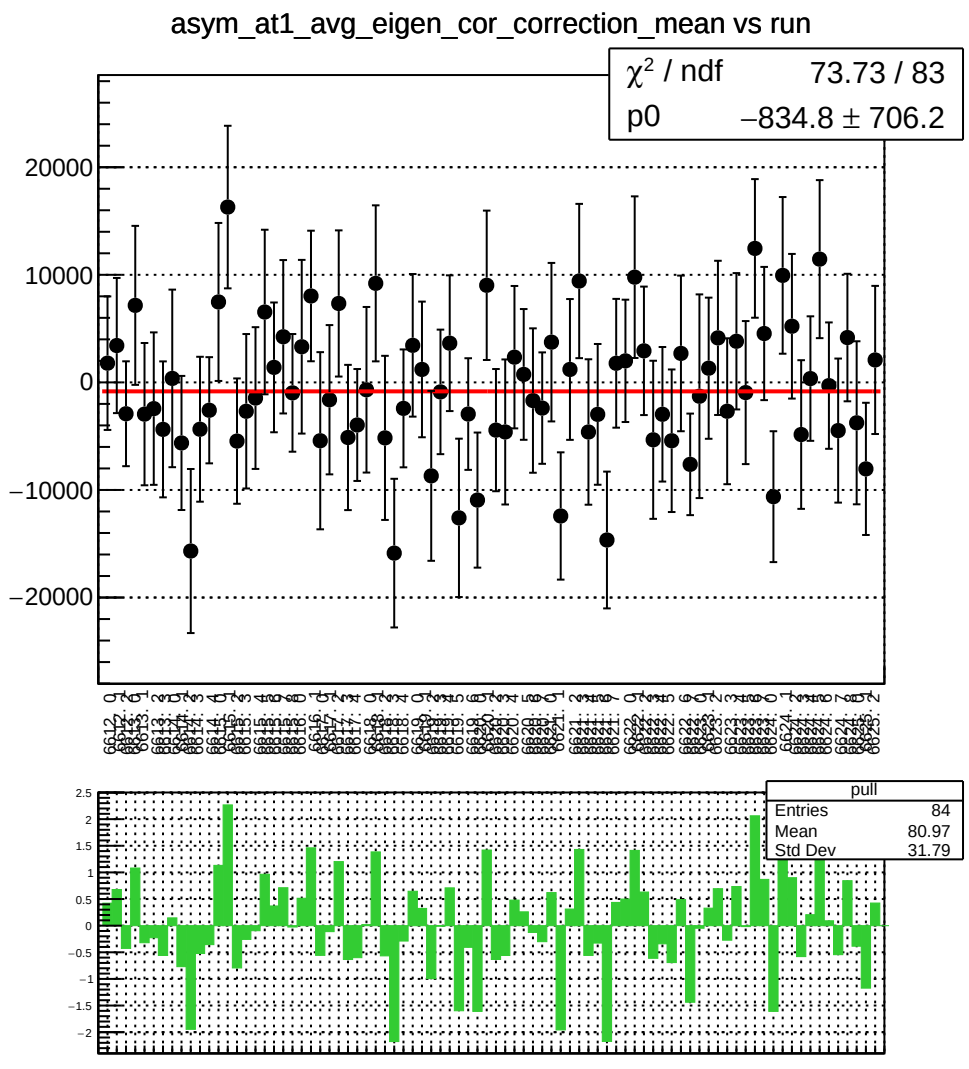

pull1D
Entries 84
Mean 0.02532
Std Dev 0.9365
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

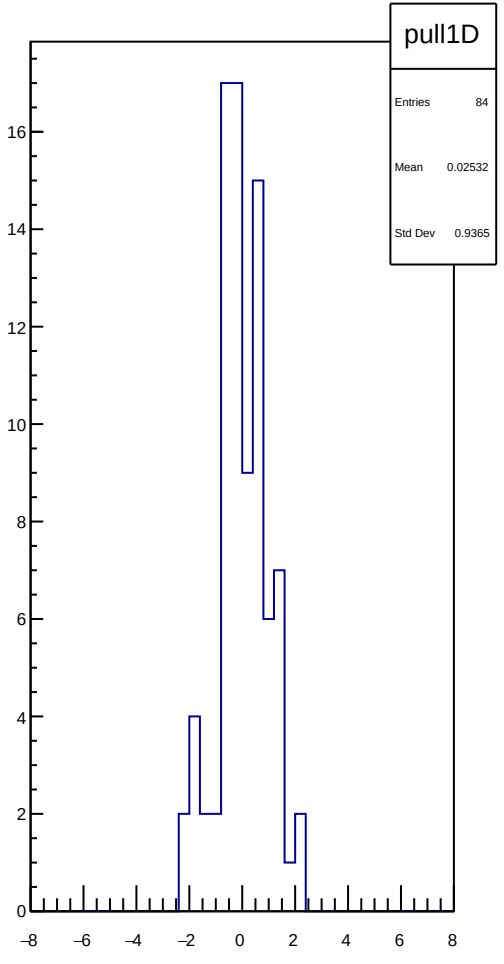

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.353e+04 / 83
p0 635.4 ± 0.4993
900
850
800
750
700
650
600
550
500

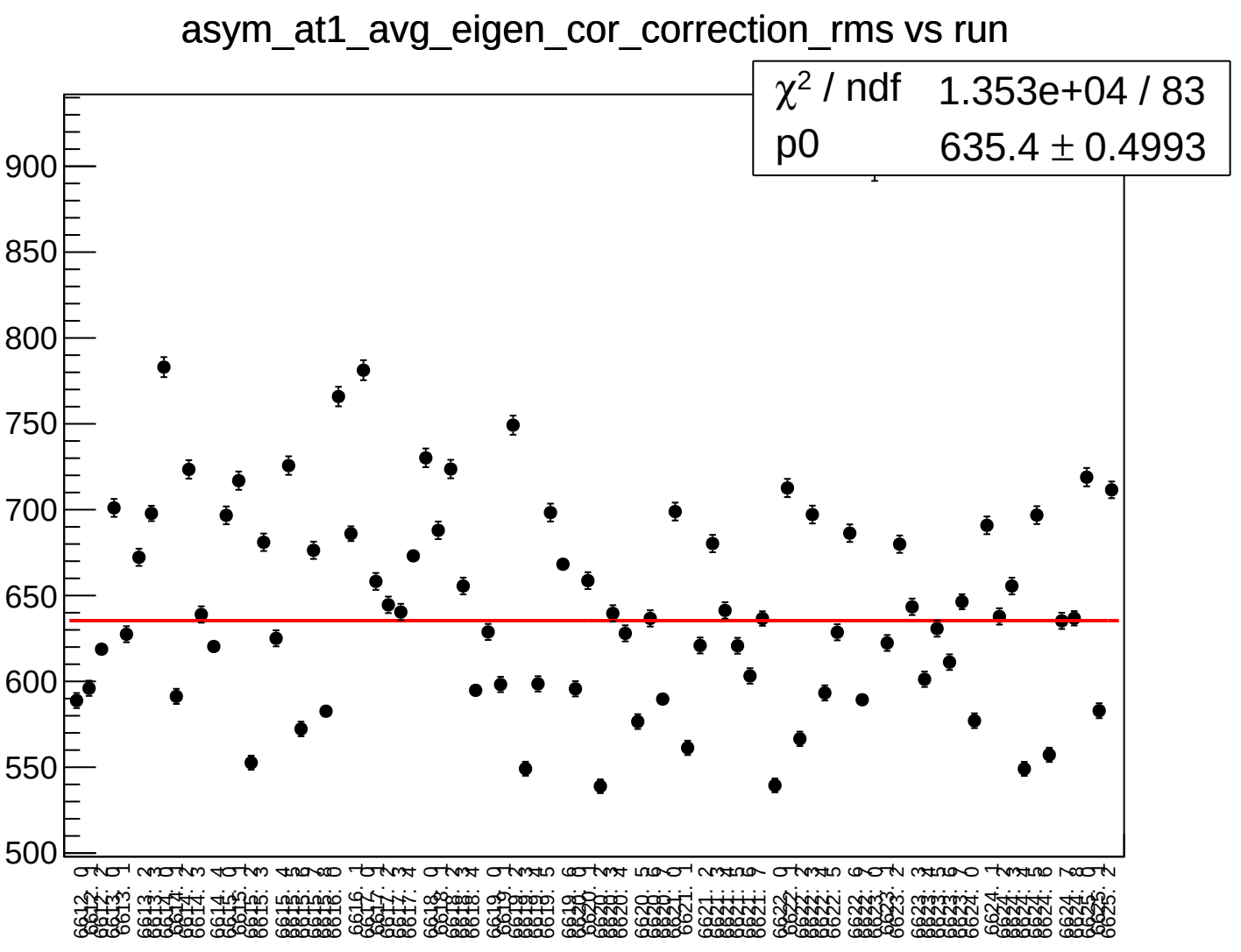

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 79.99 / 83
p0 3089 ± 2199
pull
Entries 84
Mean 561.7
Std Dev 0

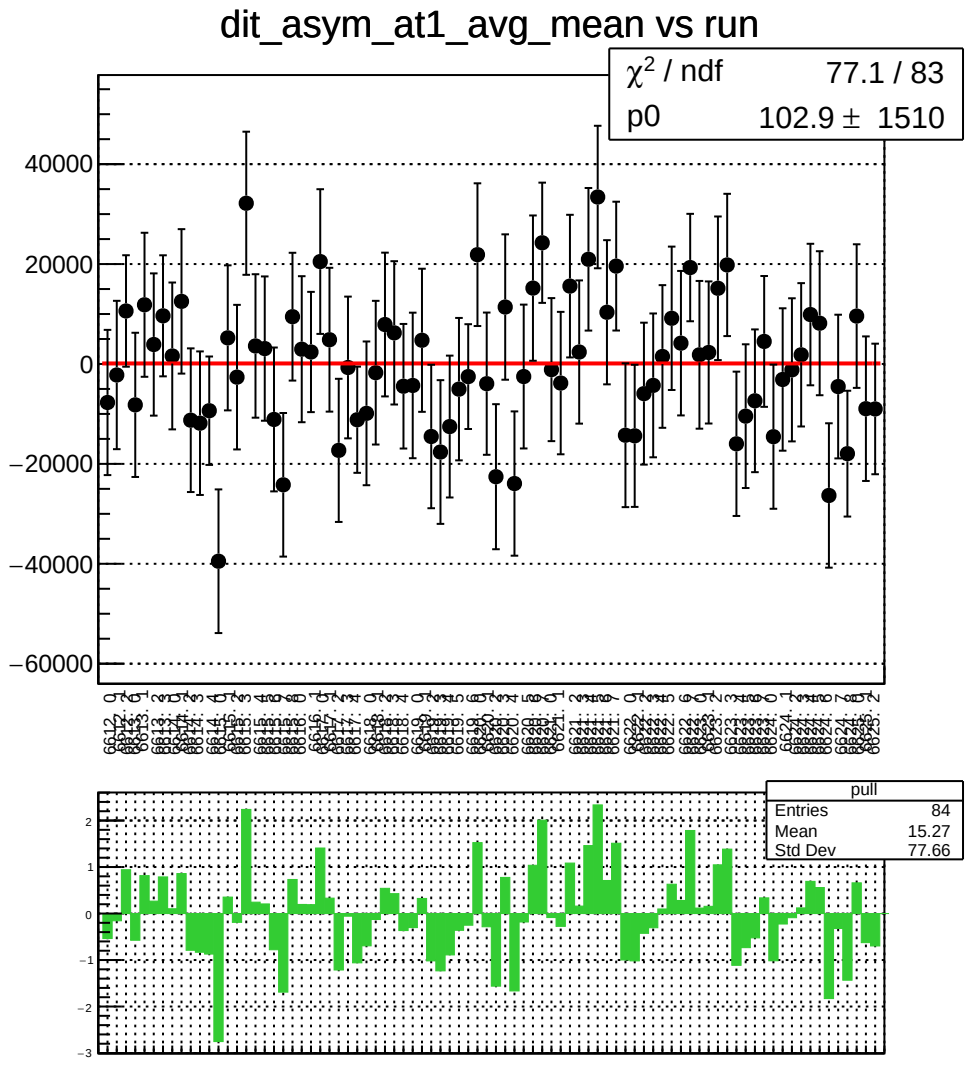

pull1D
Entries 84
Mean −0.005359
Std Dev 0.9758

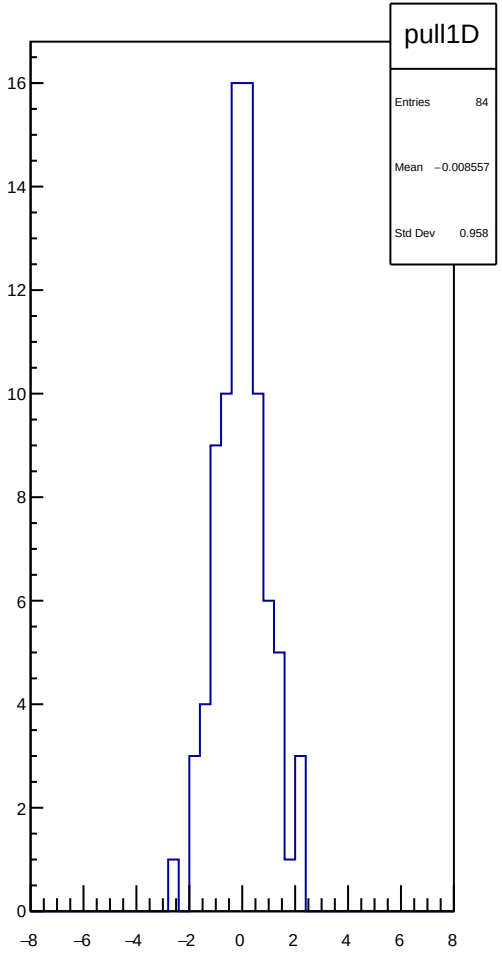

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 112.7 / 83
p0 1987 ± 1.555
2080
2060
2040
2020
2000
1980
1960
1940
1920

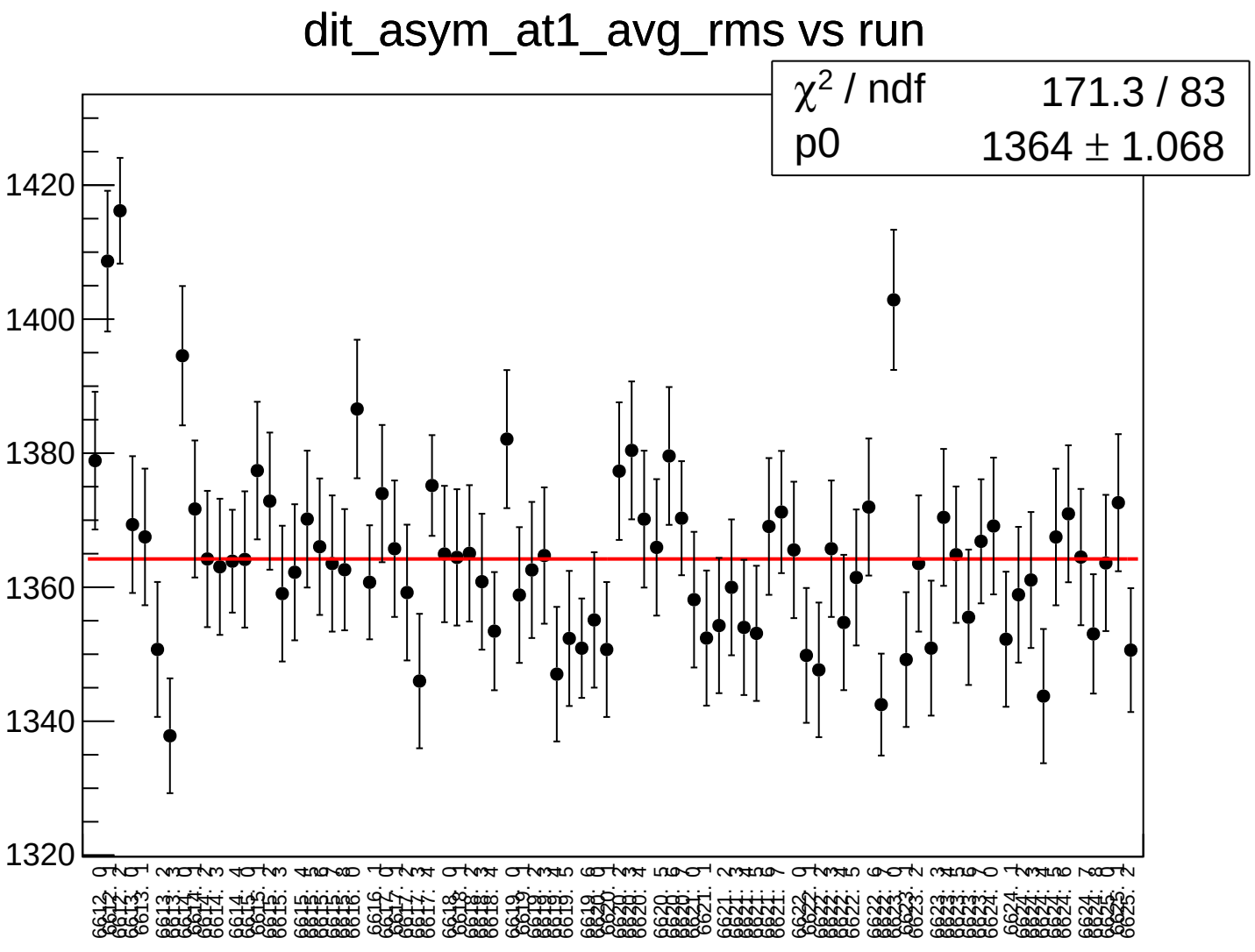

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 73.73 / 83
p0 −834.8 ± 706.2
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 80.97
Std Dev 31.79
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

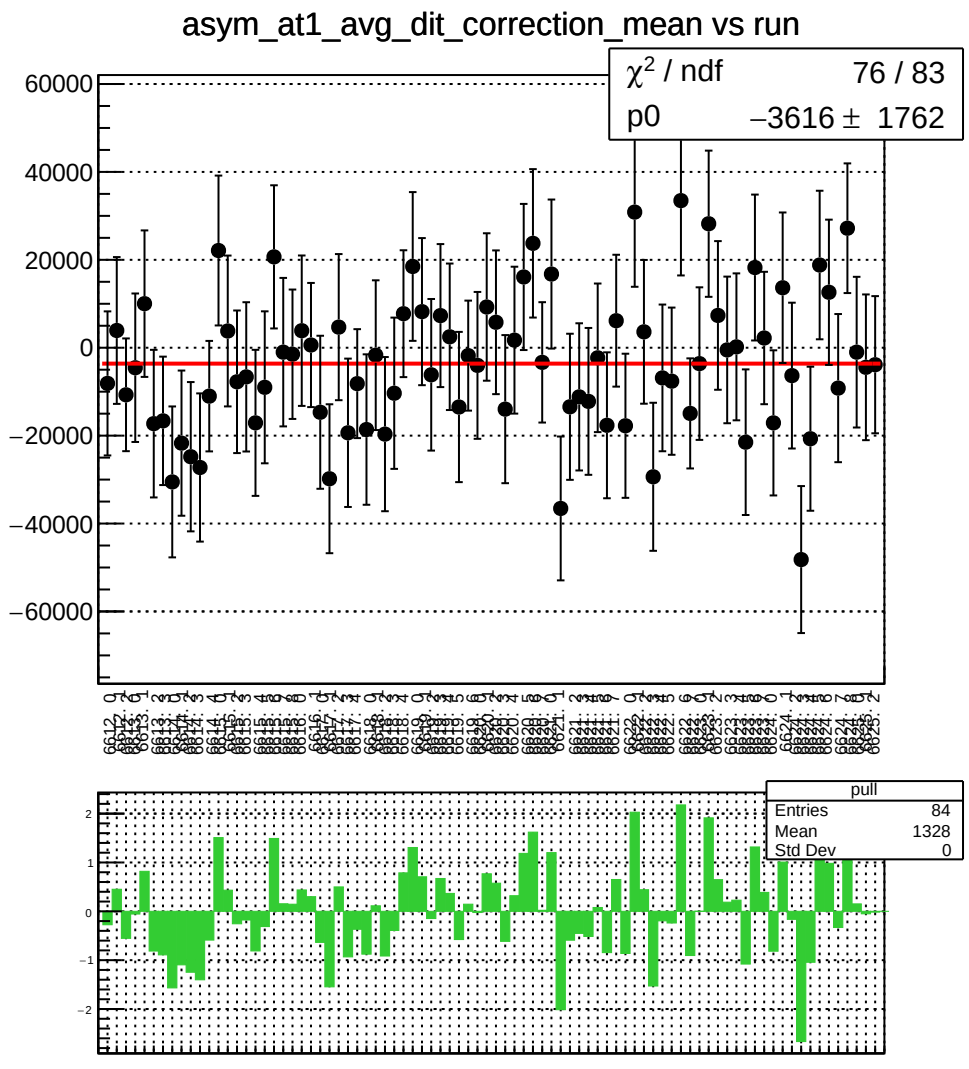

pull1D
Entries 84
Mean 0.02532
Std Dev 0.9365
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

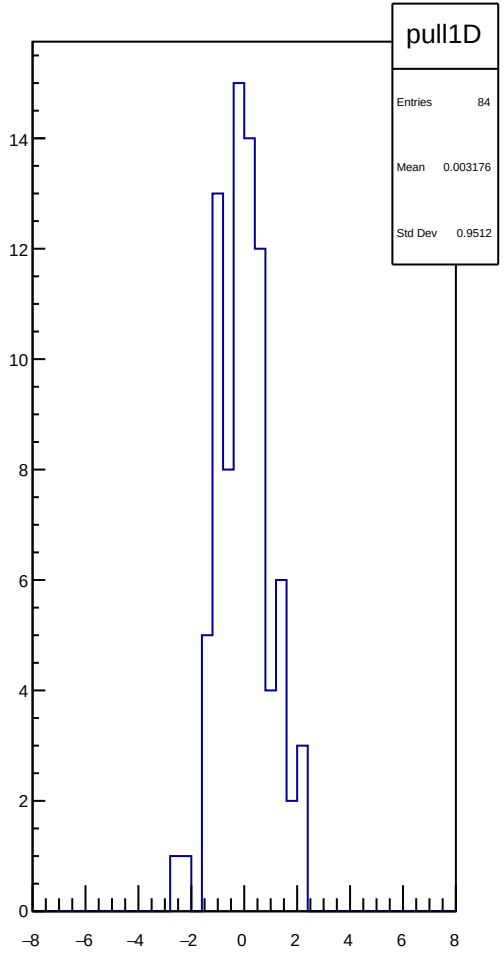

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.353e+04 / 83
p0 635.4 ± 0.4993
900
850
800
750
700
650
600
550
500

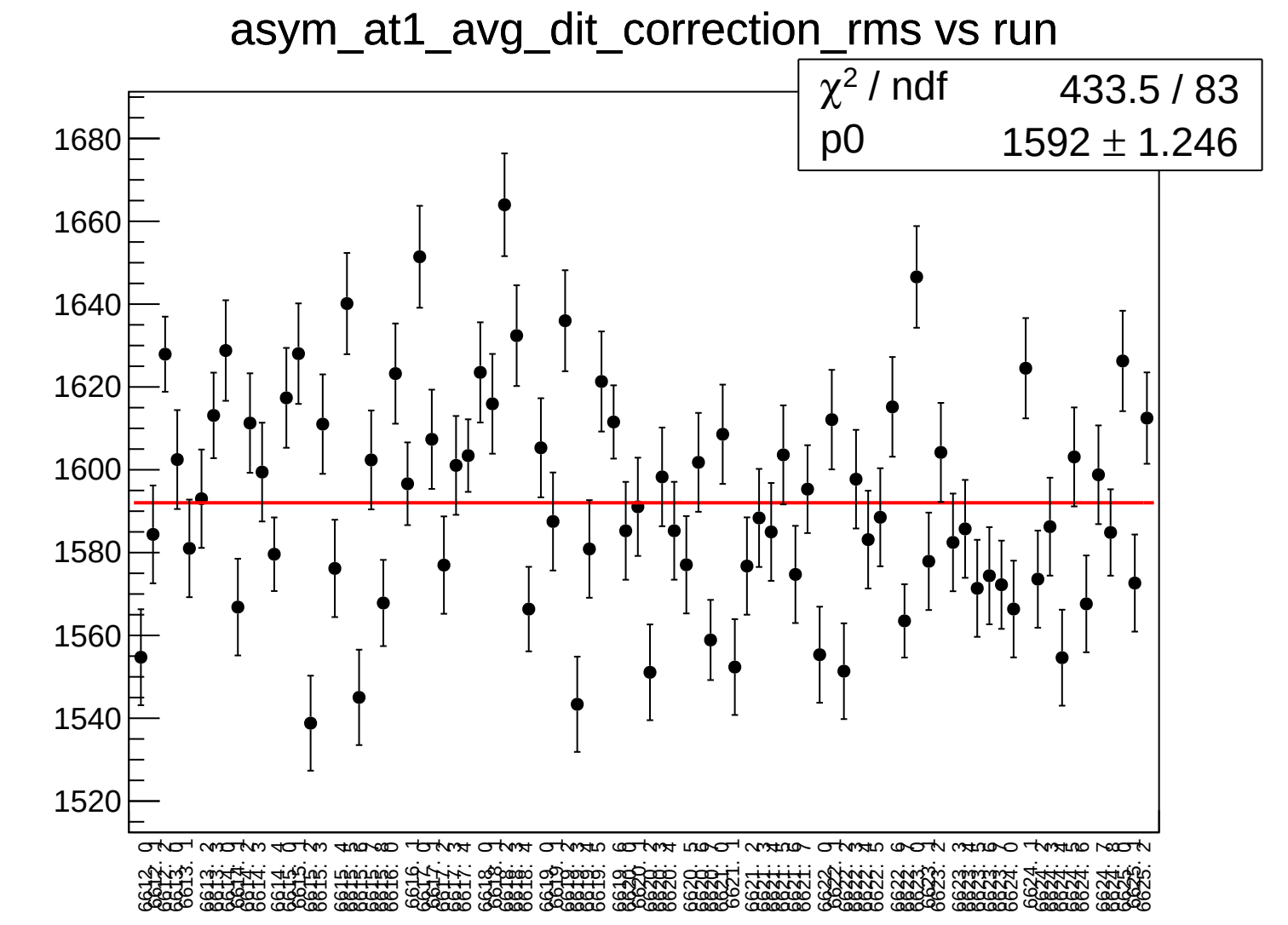

dit_asym_at1_avg_mean vs run
χ² / ndf 77.1 / 83
p0 102.9 ± 1510
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 15.27
Std Dev 77.66
2
1
0
−1
−2
−3

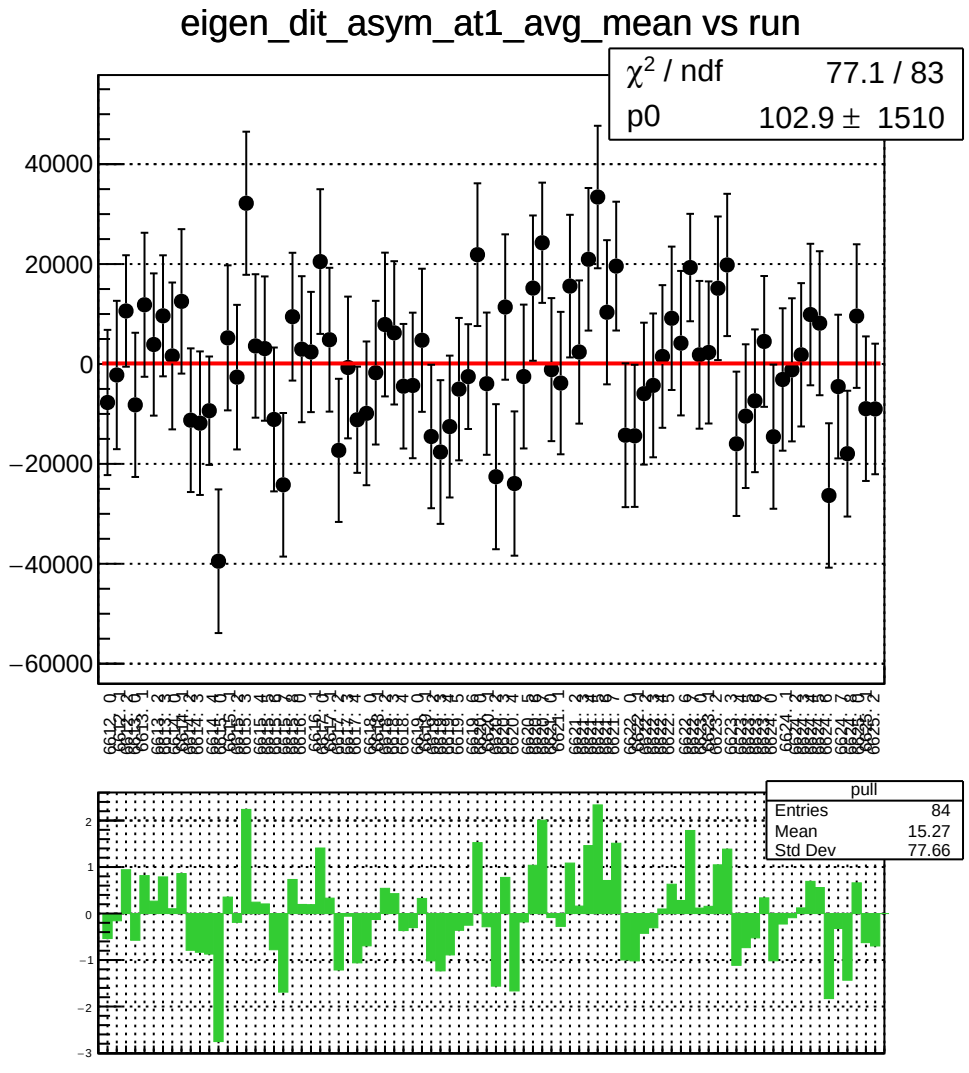

pull1D
Entries 84
Mean −0.008557
Std Dev 0.958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

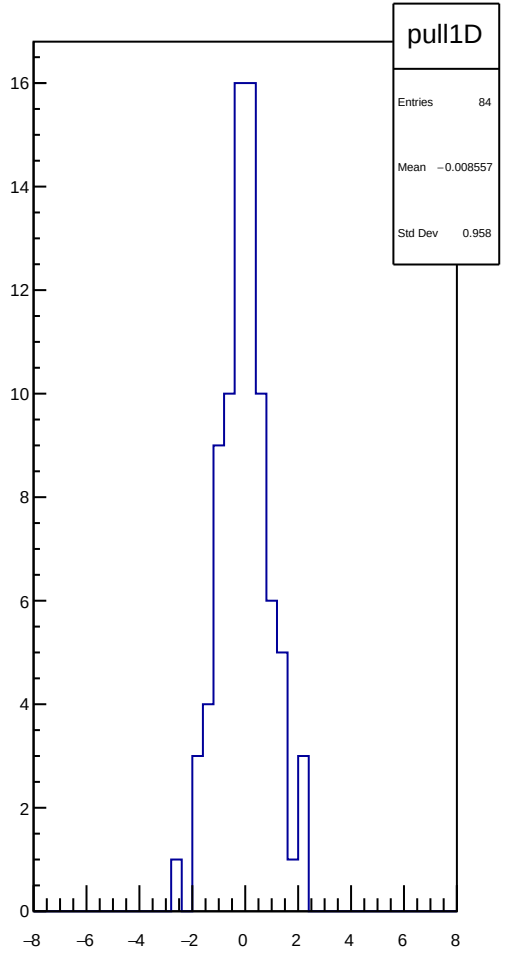

dit_asym_at1_avg_rms vs run
χ² / ndf 171.3 / 83
p0 1364 ± 1.068
1420
1400
1380
1360
1340
1320

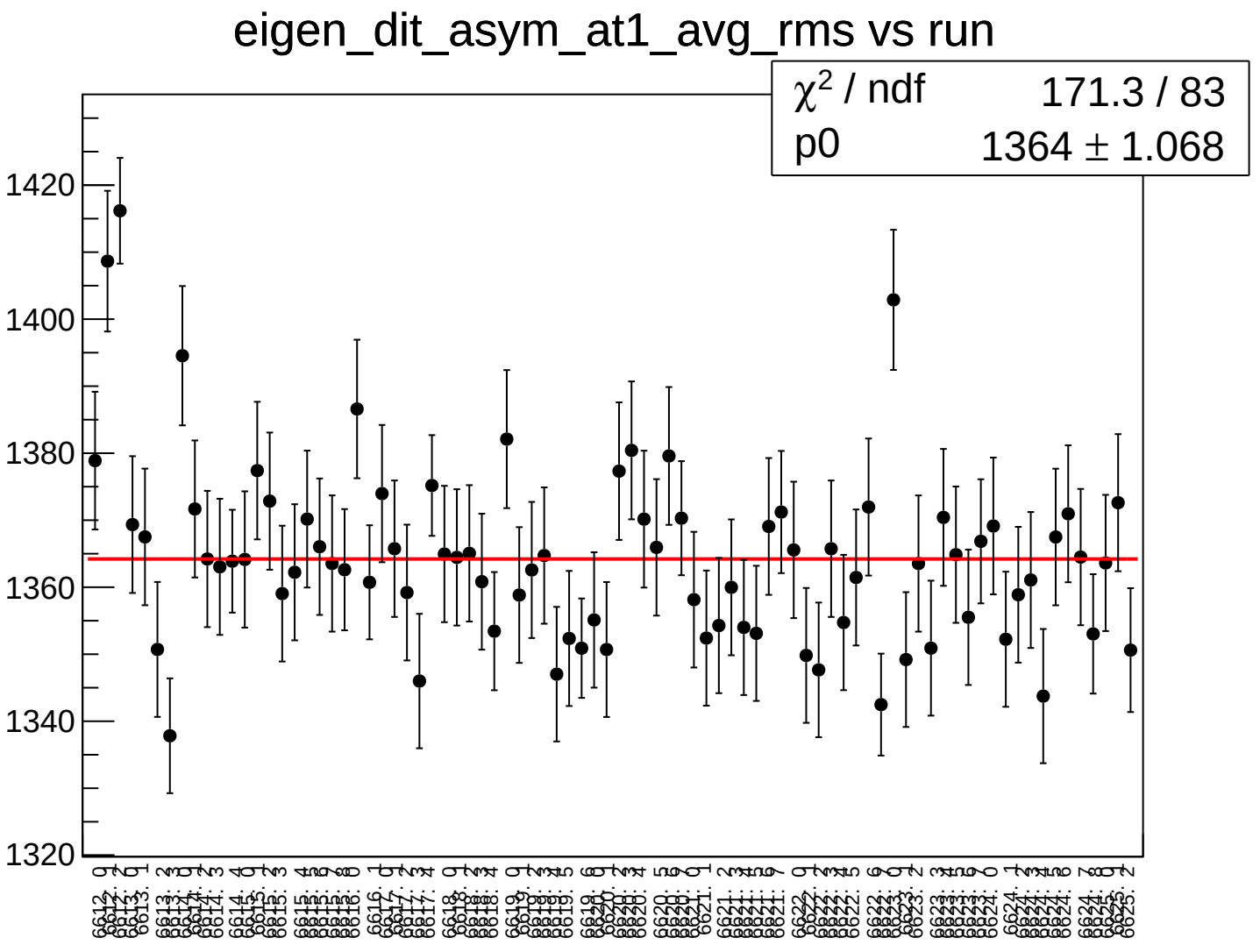

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 76 / 83
p0 −3616 ± 1762
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1328
Std Dev 0
2
1
0
−1
−2

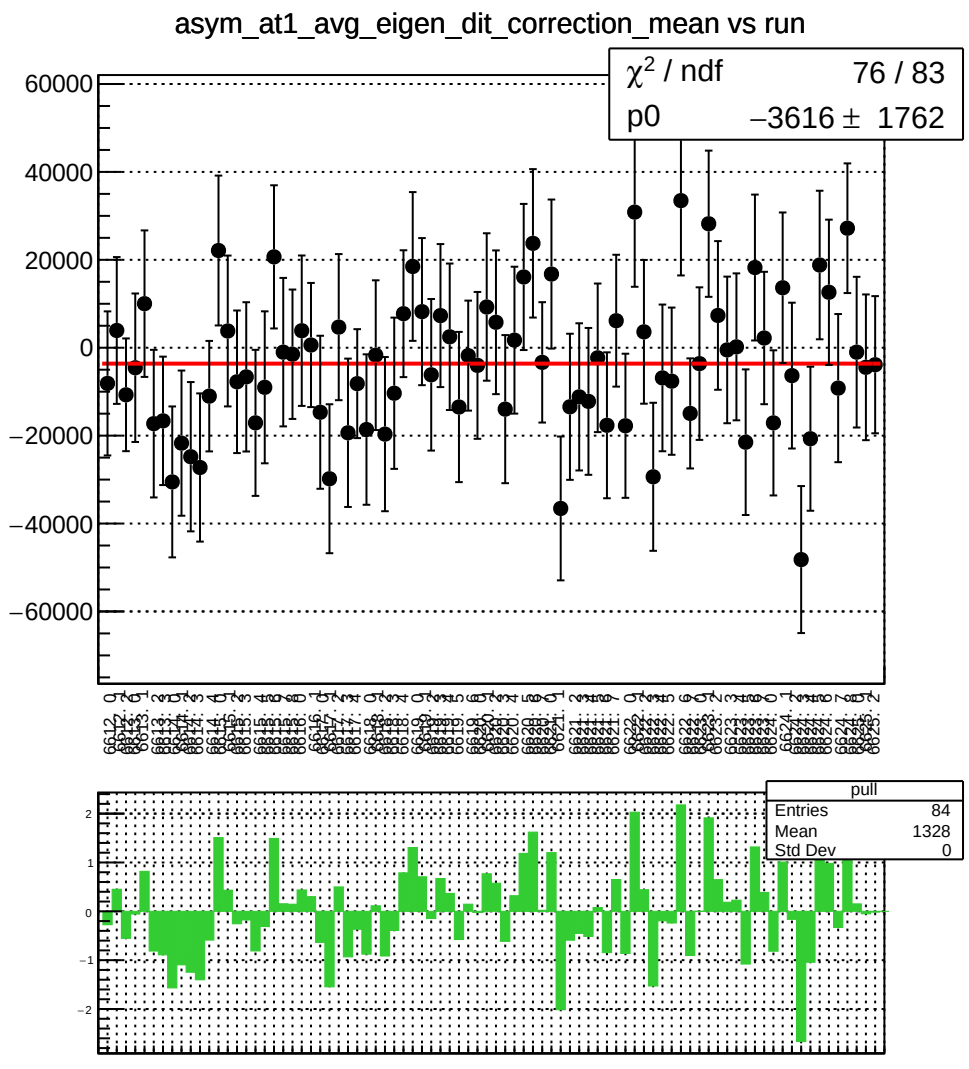

pull1D
Entries 84
Mean 0.003176
Std Dev 0.9512
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

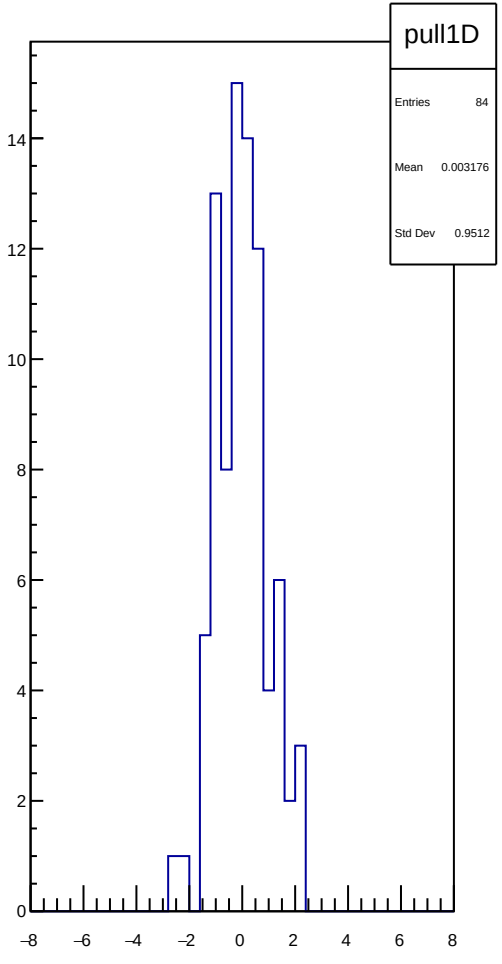

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 433.5 / 83
p0 1592 ± 1.246
1680
1660
1640
1620
1600
1580
1560
1540
1520

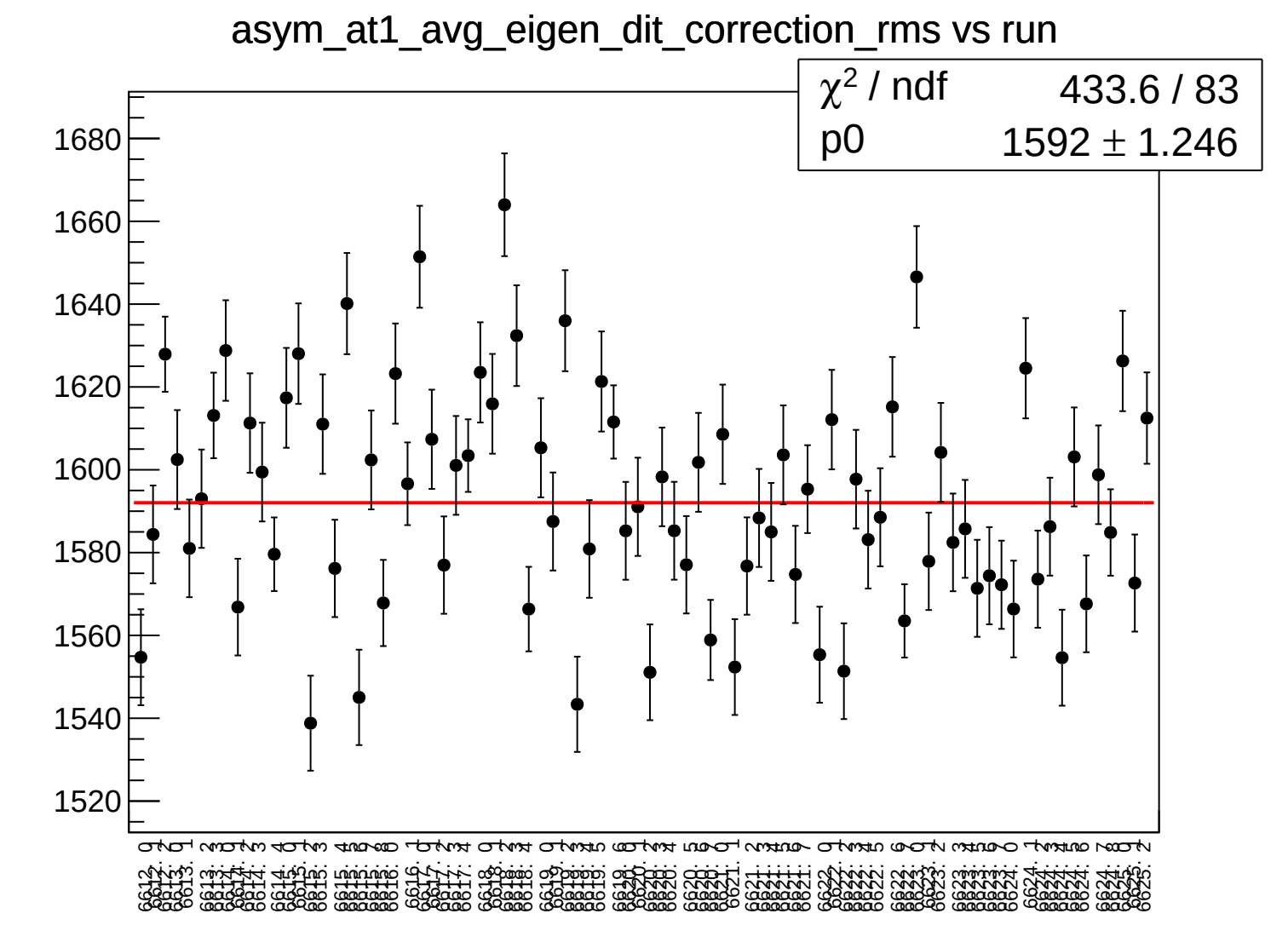

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 77.1 / 83
p0 102.9 ± 1510
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 15.27
Std Dev 77.66
2
1
0
−1
−2
−3

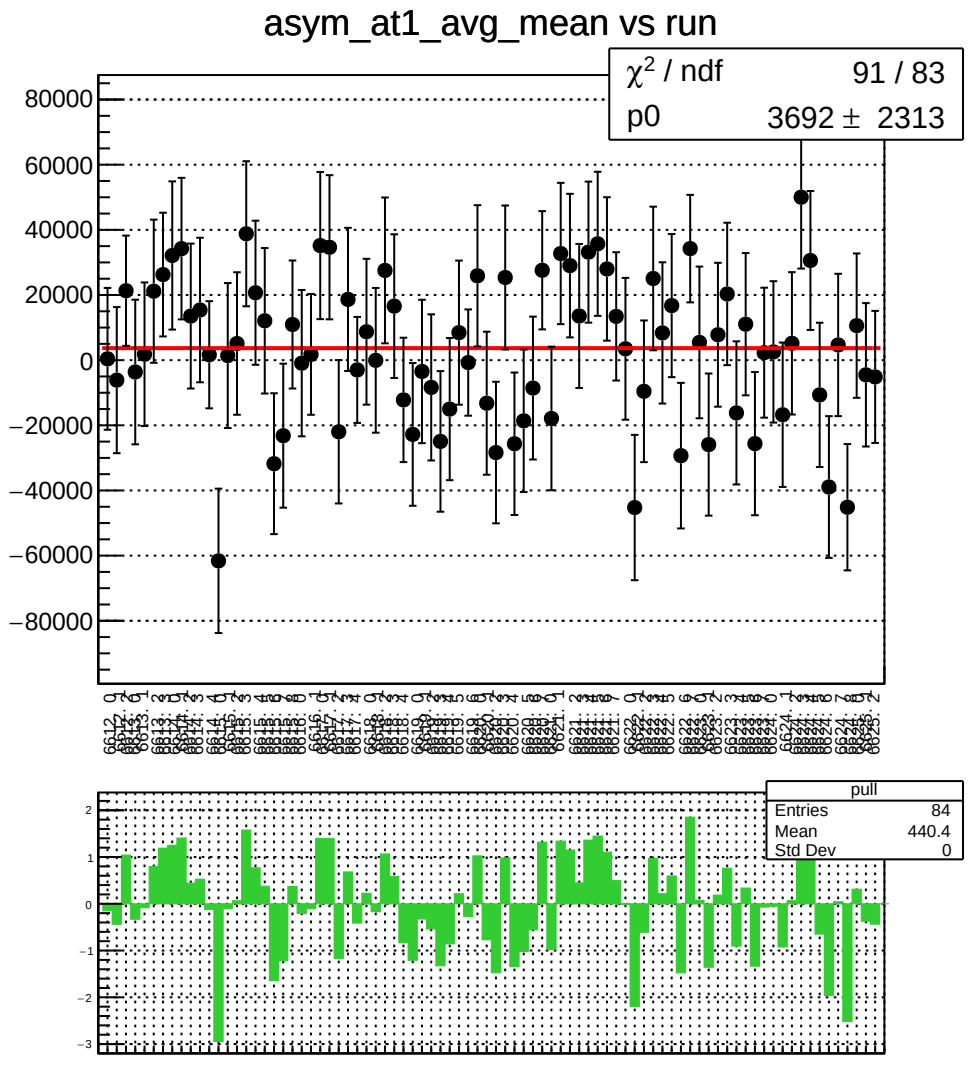

pull1D
Entries 84
Mean −0.008557
Std Dev 0.958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

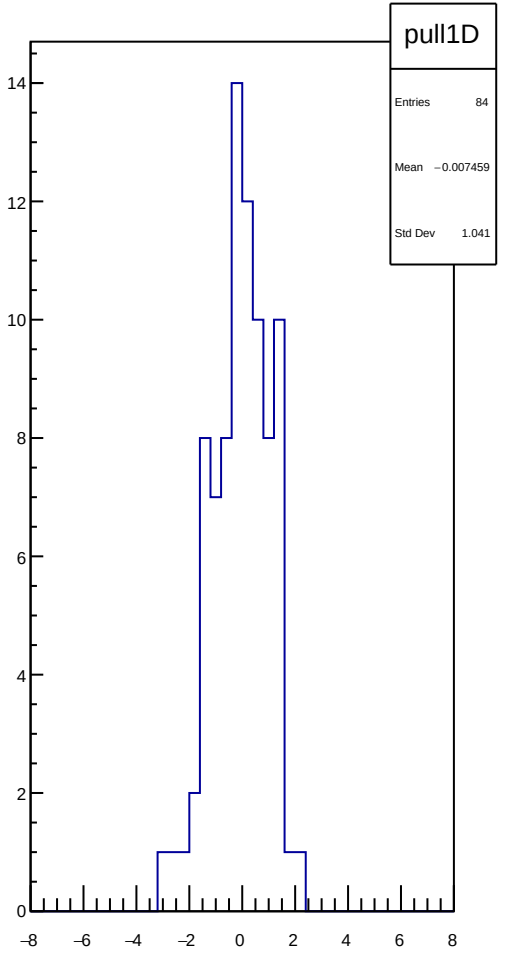

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 171.3 / 83
p0 1364 ± 1.068
1420
1400
1380
1360
1340
1320

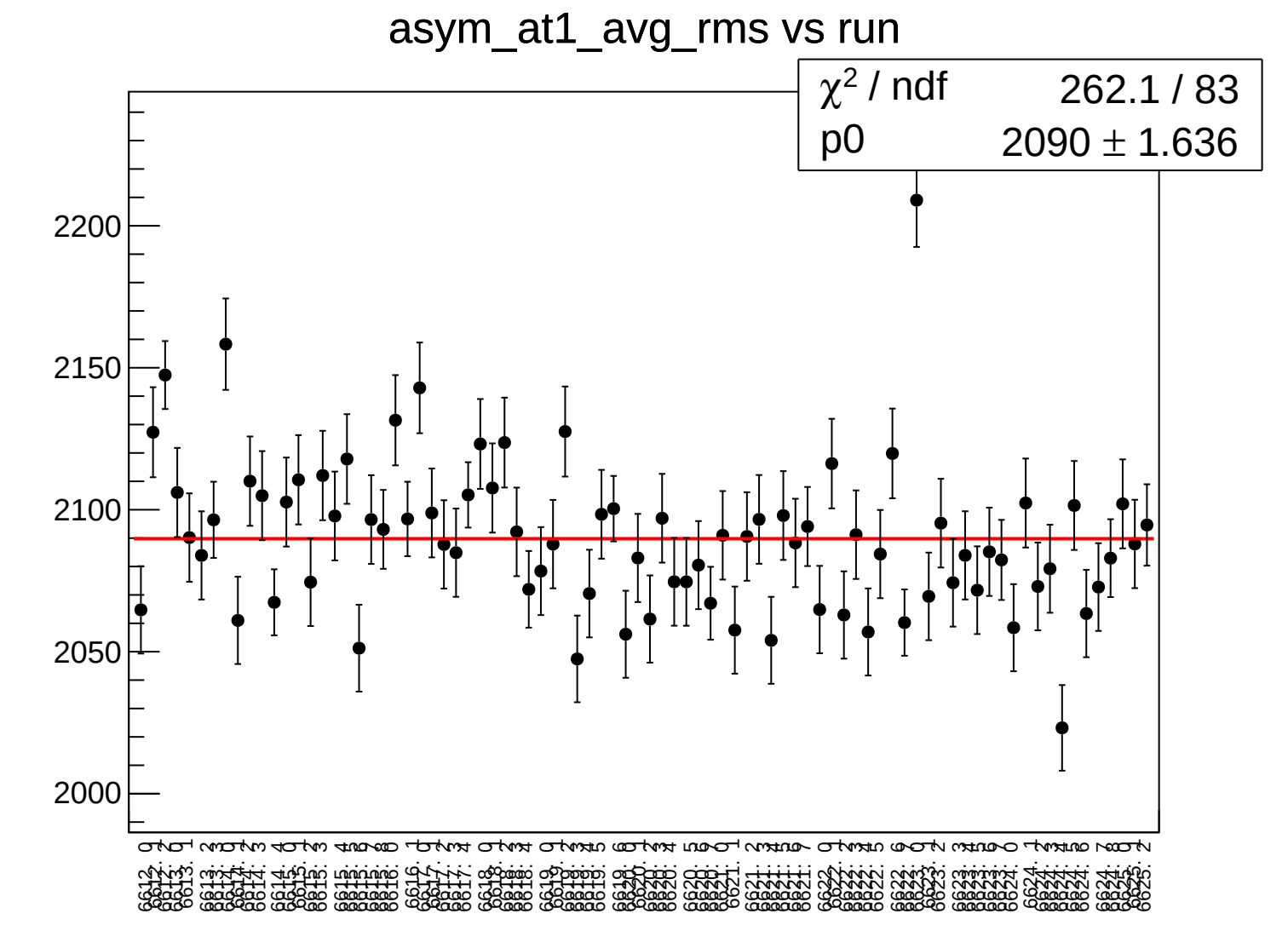

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 76 / 83
p0 −3616 ± 1762
pull
Entries 84
Mean 1328
Std Dev 0

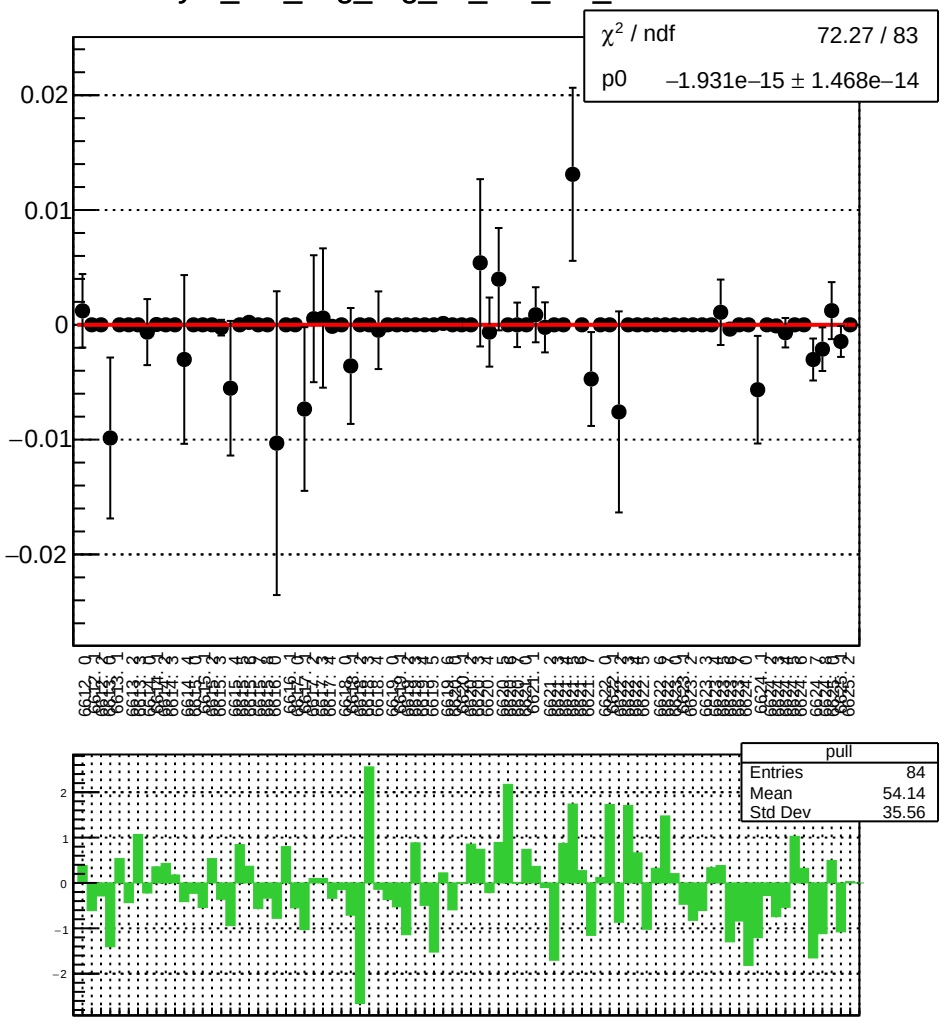

pull1D
Entries 84
Mean 0.003176
Std Dev 0.9512

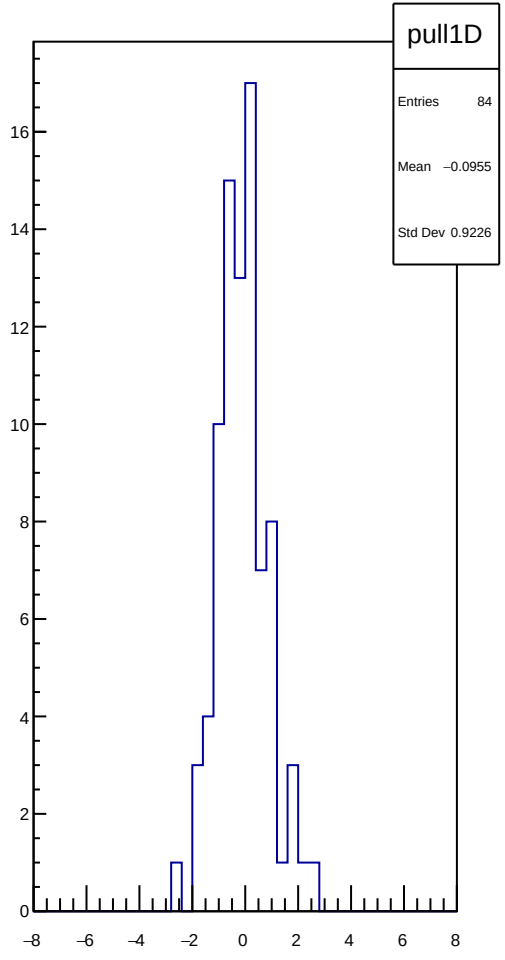

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 433.6 / 83
p0 1592 ± 1.246
1680
1660
1640
1620
1600
1580
1560
1540
1520

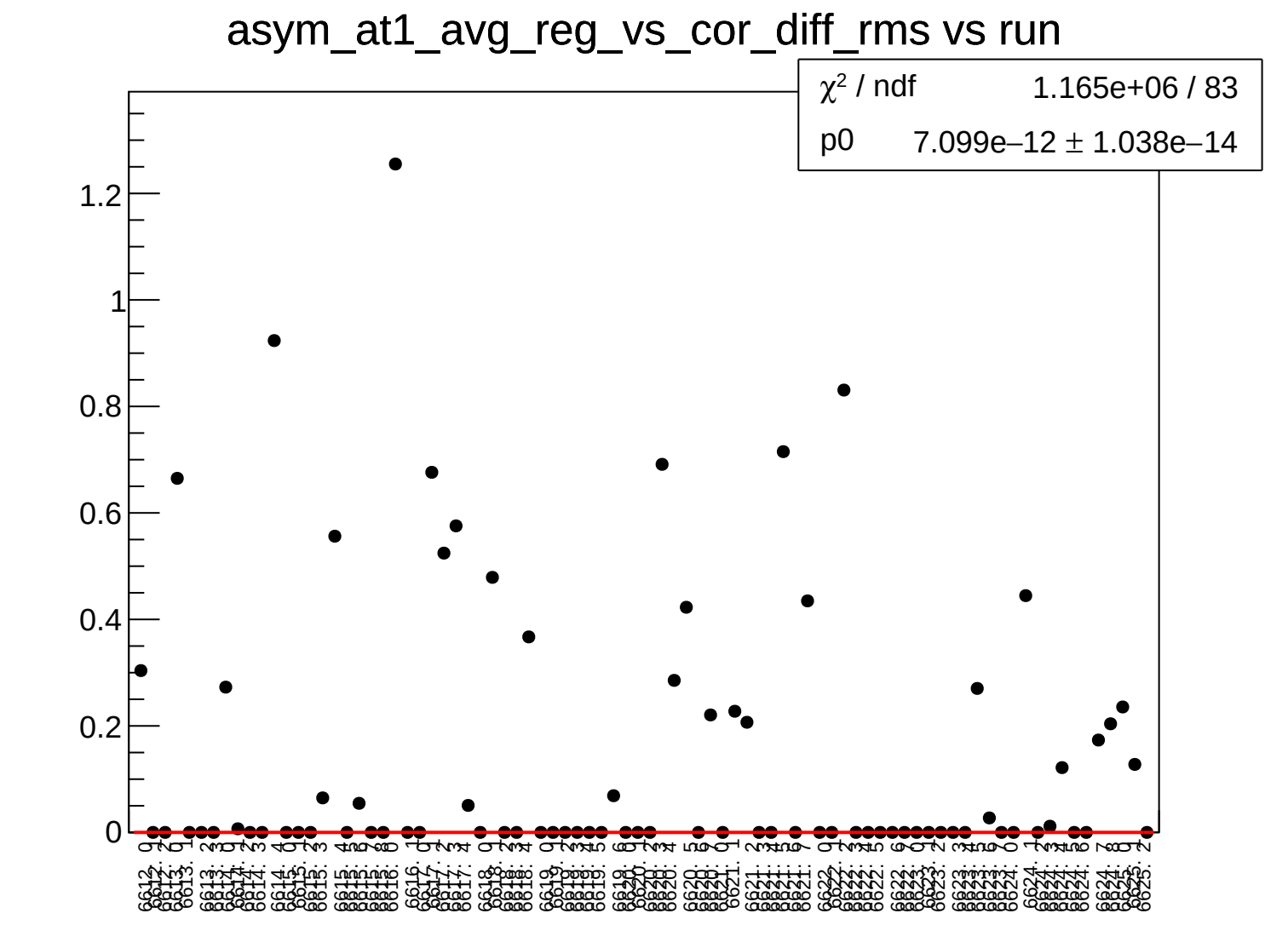

asym_at1_avg_mean vs run
χ² / ndf 91 / 83
p0 3692 ± 2313
pull
Entries 84
Mean 440.4
Std Dev 0

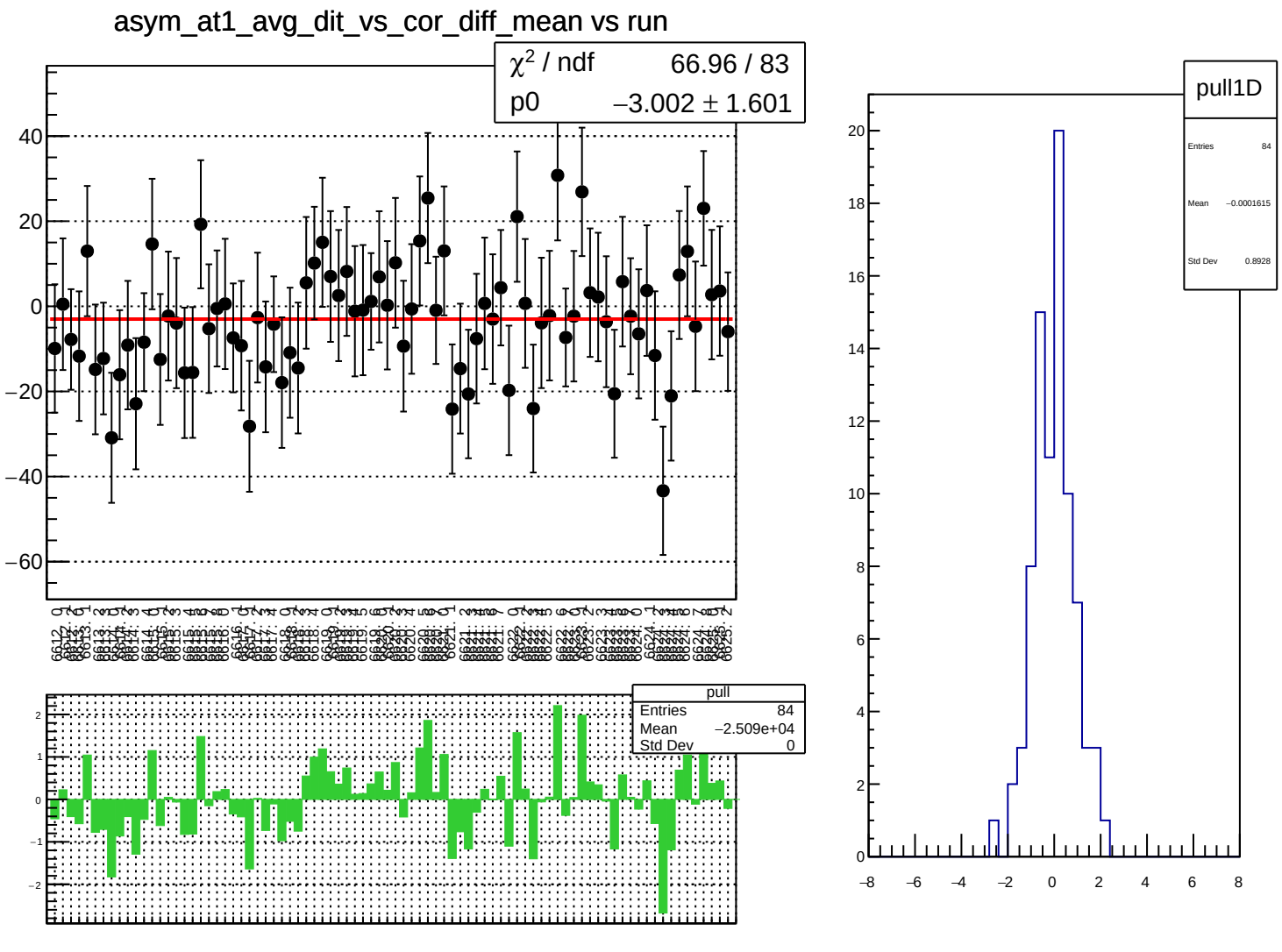

pull1D
Entries 84
Mean −0.007459
Std Dev 1.041

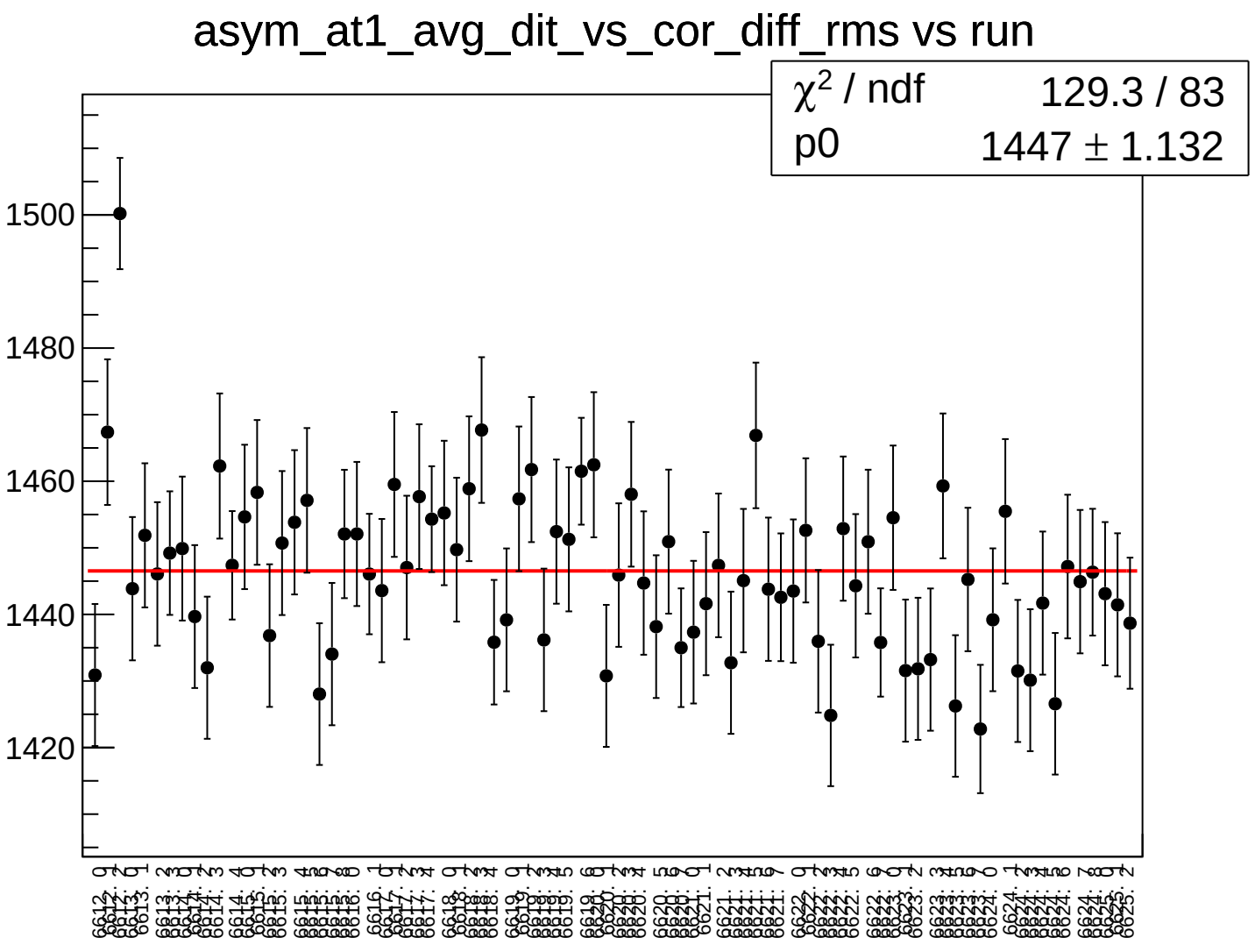

asym_at1_avg_rms vs run
χ^2 / ndf 262.1 / 83
p0 2090 ± 1.636
2200
2150
2100
2050
2000

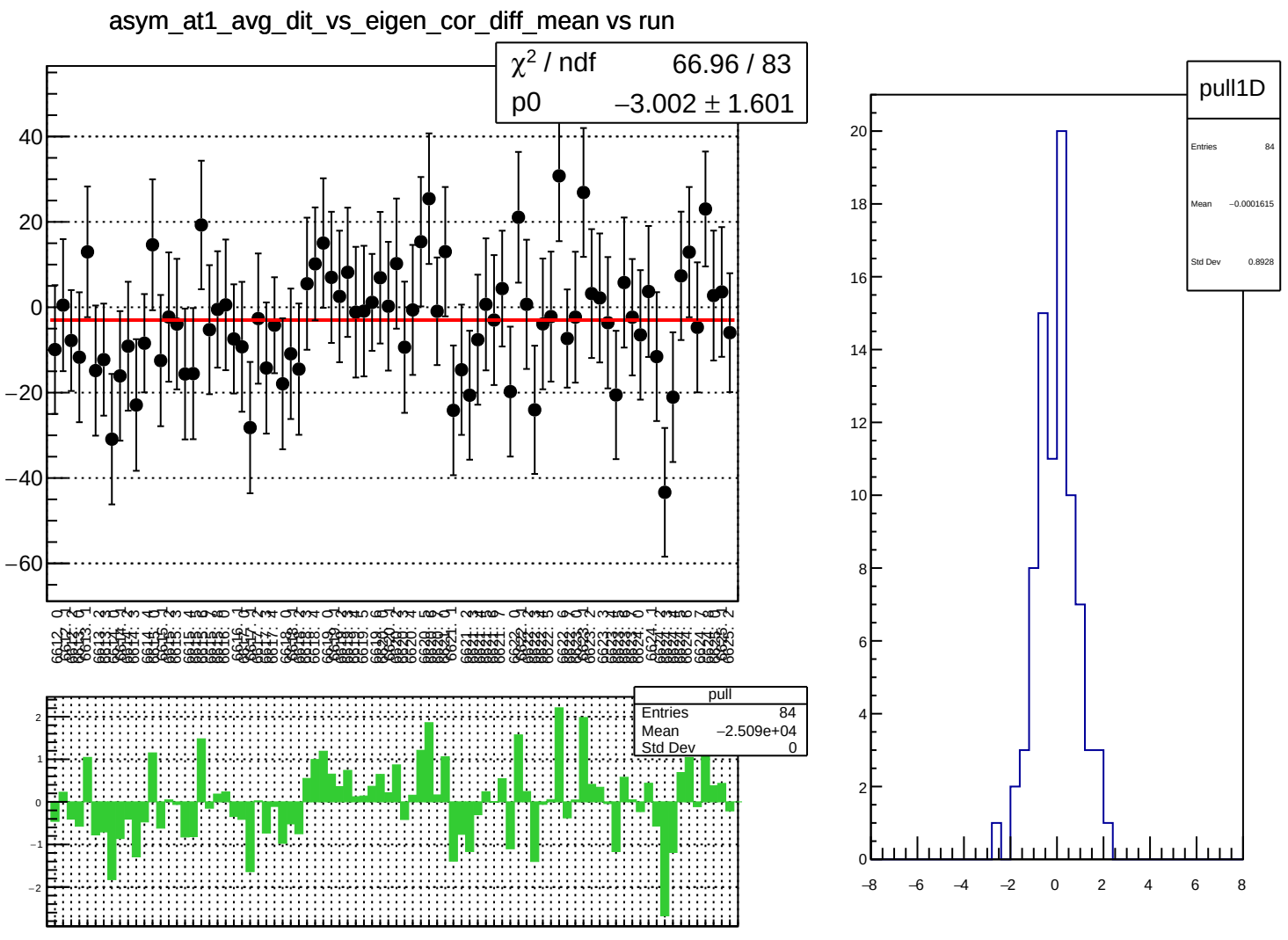

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.27 / 83
p0 −1.931e−15 ± 1.468e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 54.14
Std Dev 35.56
2
1
0
−1
−2

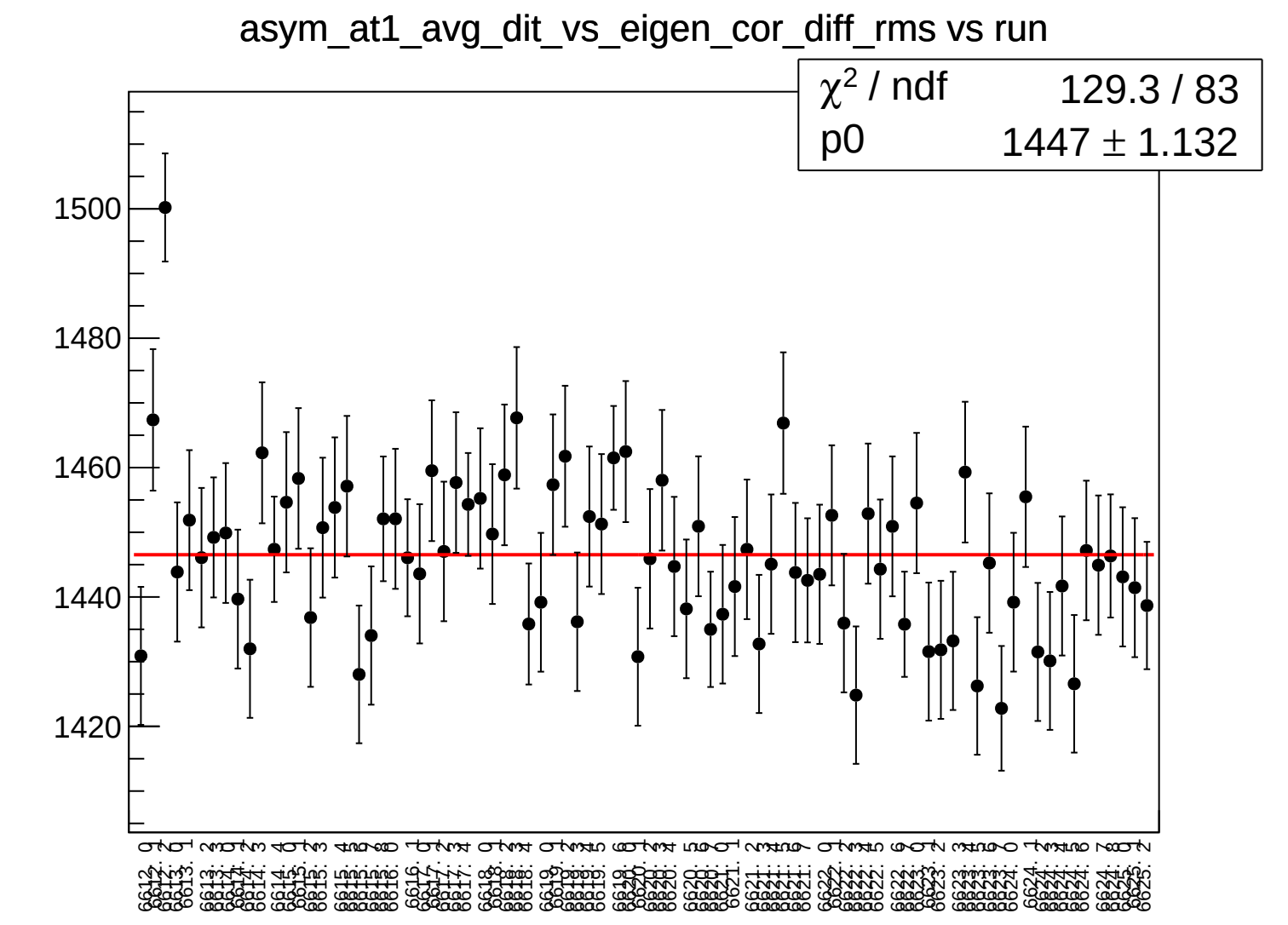

pull1D
Entries 84
Mean −0.0955
Std Dev 0.9226
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

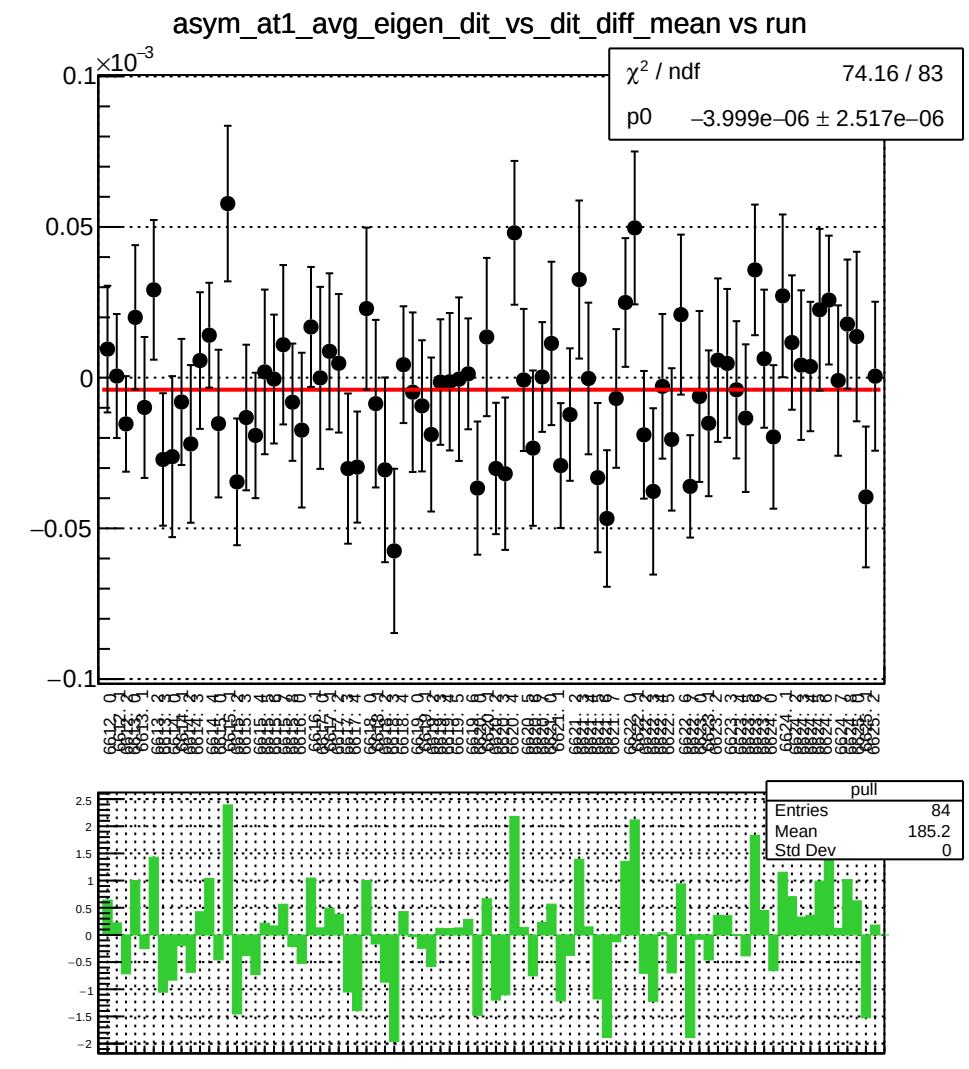

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.165e+06 / 83
p0 7.099e−12 ± 1.038e−14
1.2
1
0.8
0.6
0.4
0.2
0

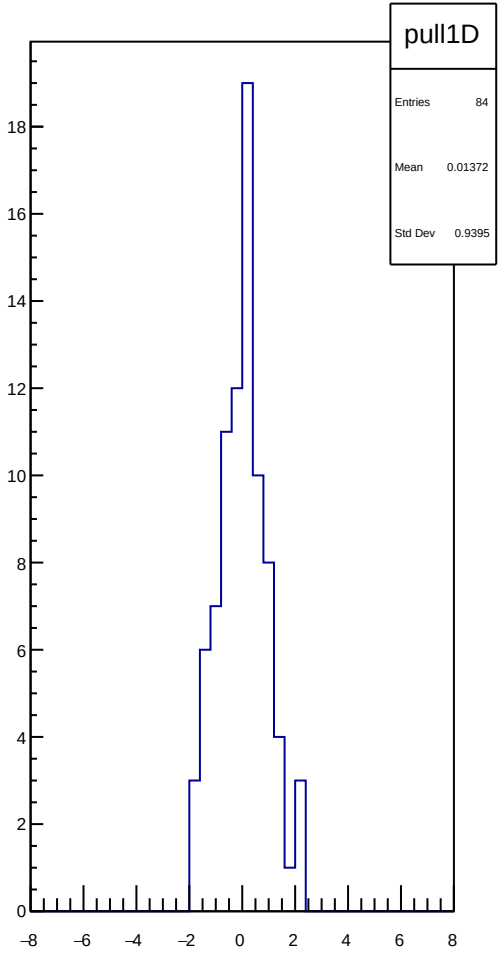

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.96 / 83
p0 −3.002 ± 1.601
pull
Entries 84
Mean −2.509e+04
Std Dev 0
pull1D
Entries 84
Mean −0.0001615
Std Dev 0.8928

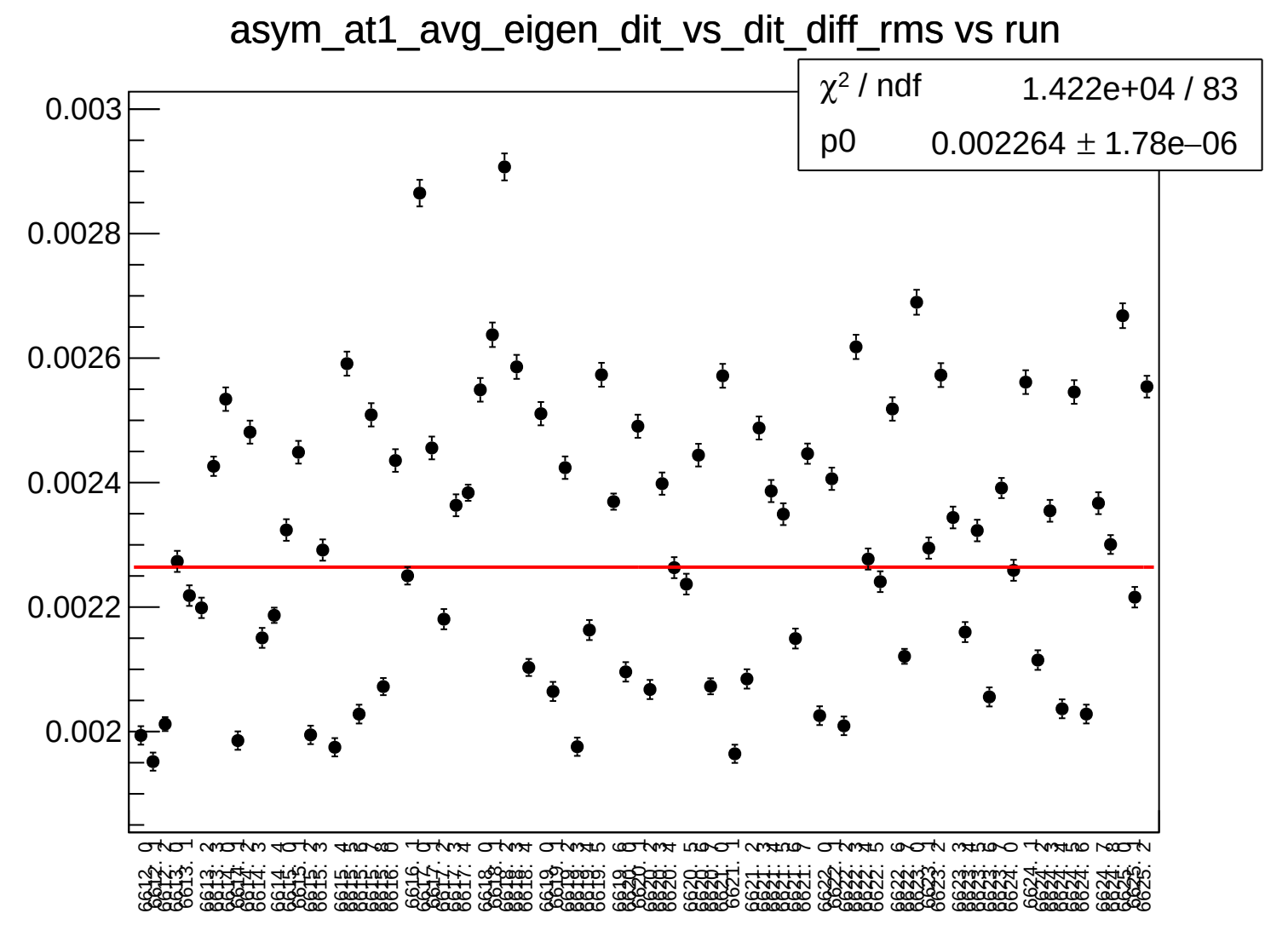

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 129.3 / 83
p0 1447 ± 1.132
1500
1480
1460
1440
1420

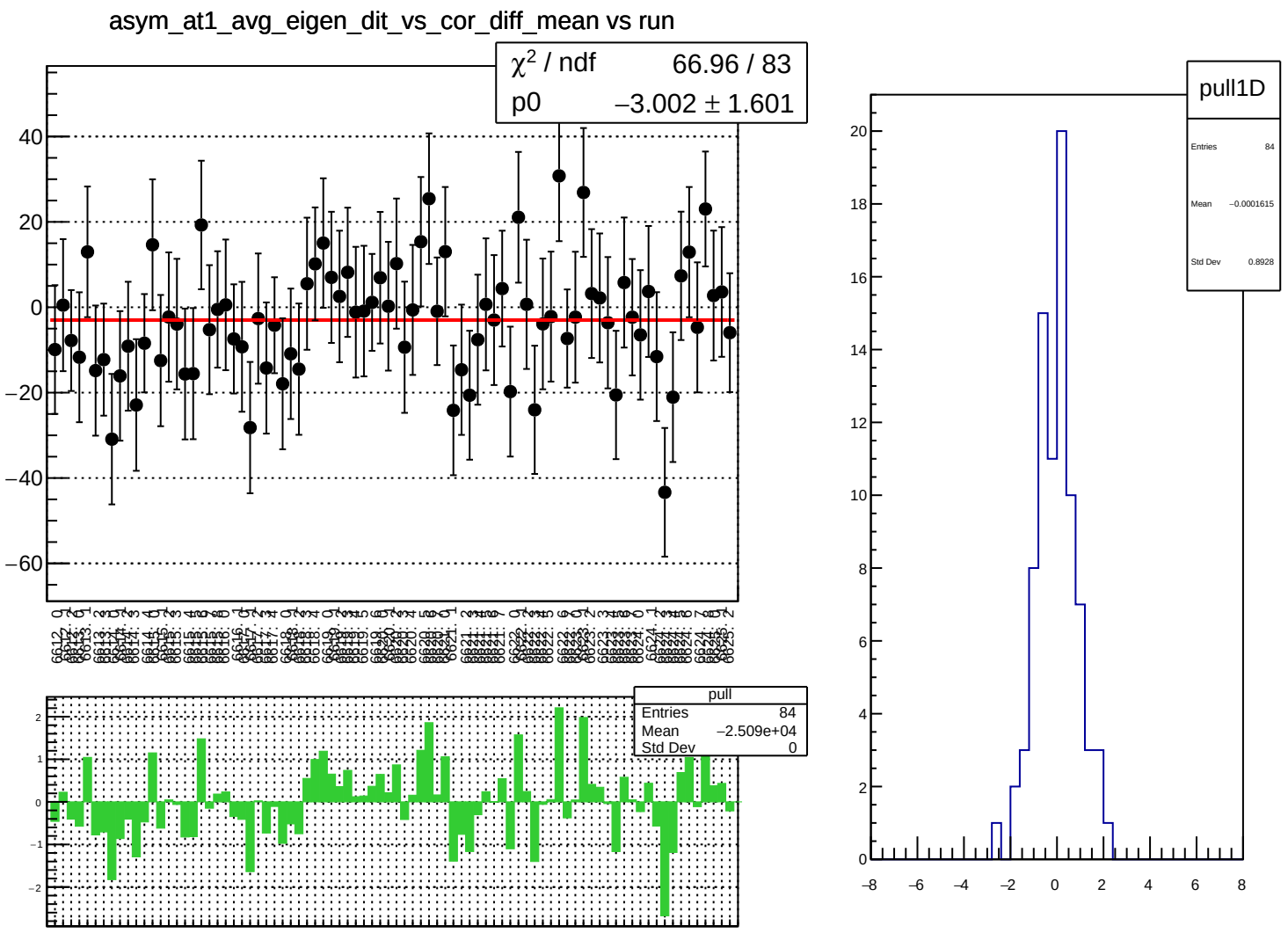

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.96 / 83
p0 −3.002 ± 1.601
pull
Entries 84
Mean −2.509e+04
Std Dev 0
pull1D
Entries 84
Mean −0.0001615
Std Dev 0.8928

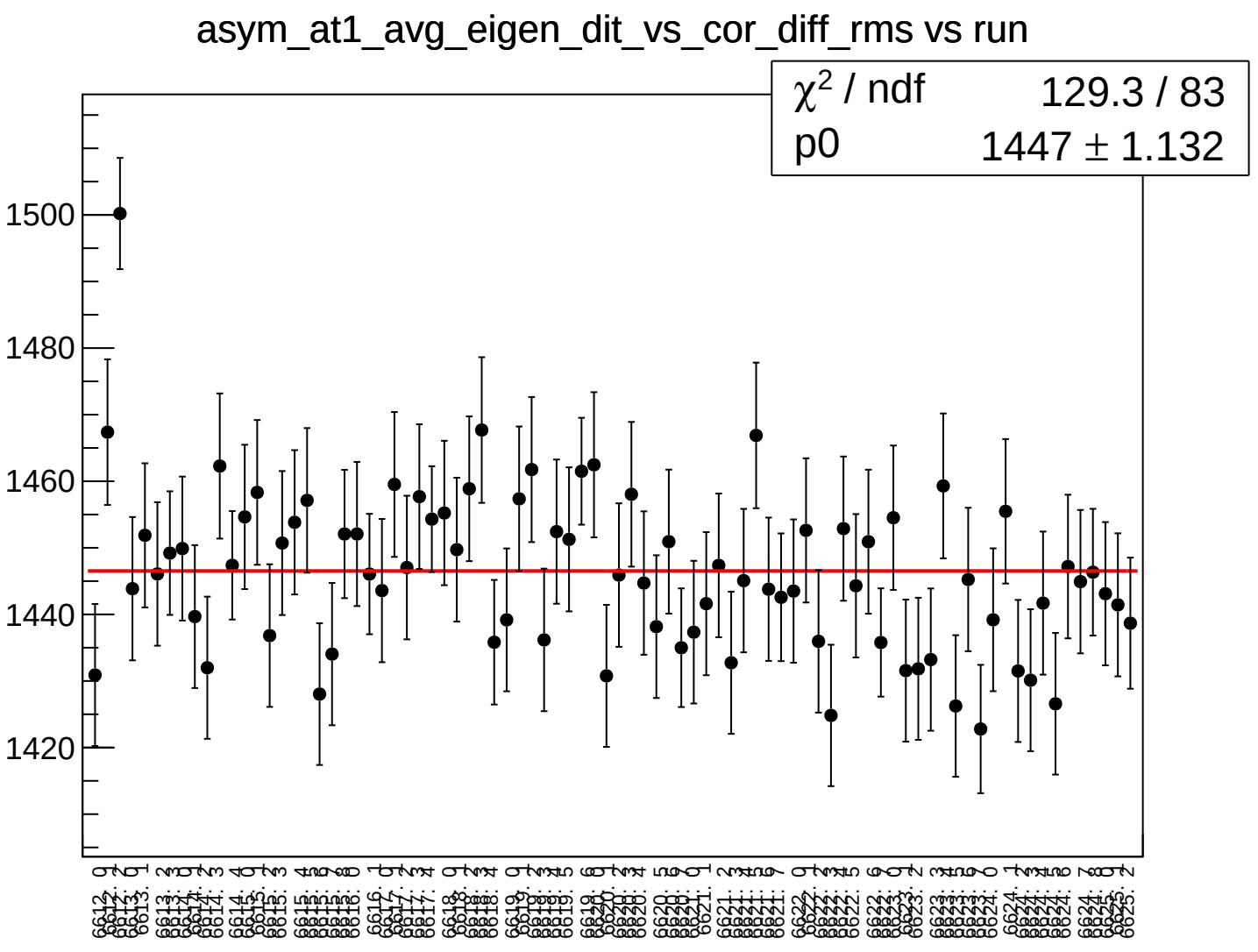

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 129.3 / 83
p0 1447 ± 1.132
1500
1480
1460
1440
1420

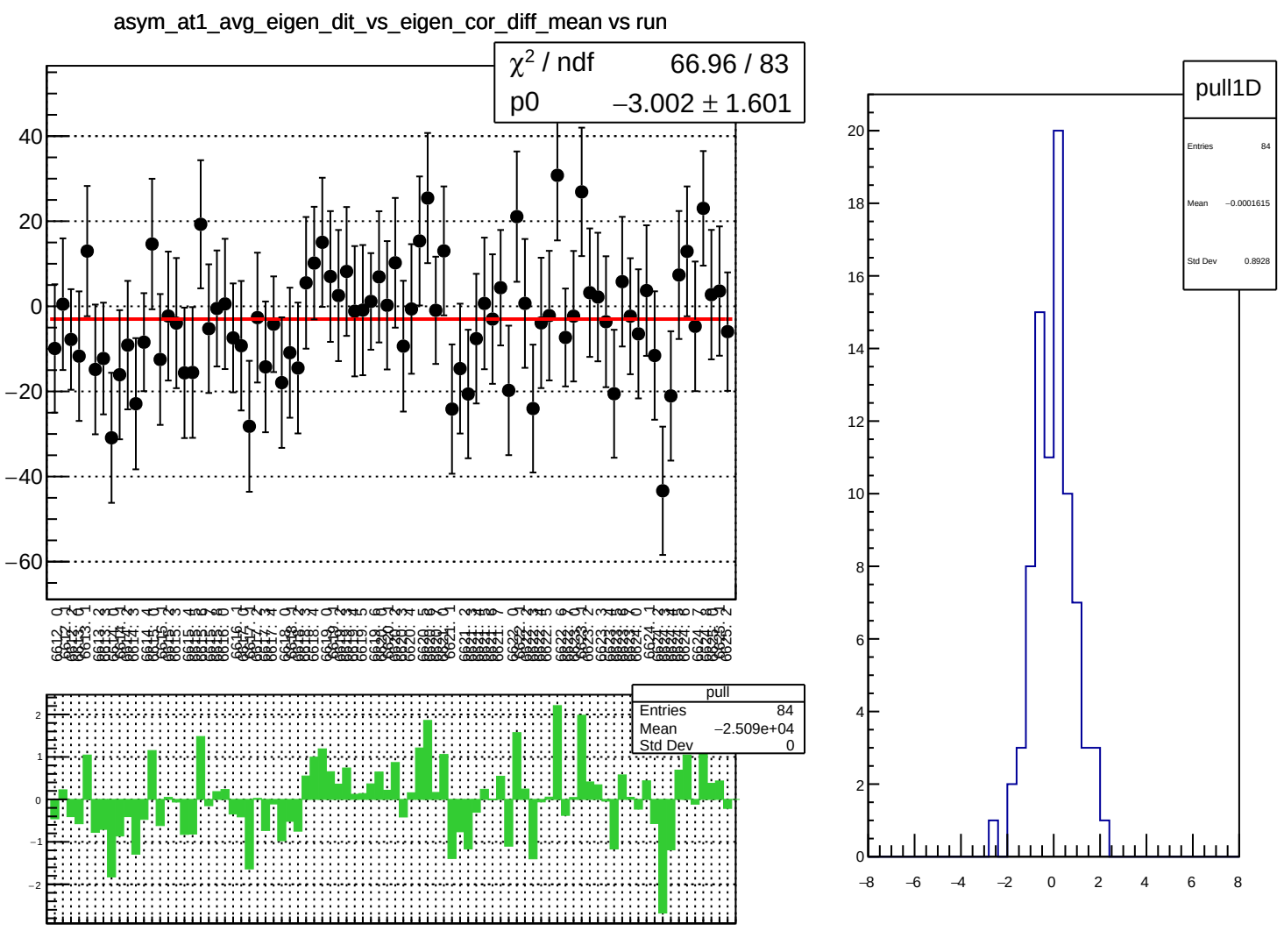

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.16 / 83
p0 −3.999e−06 ± 2.517e−06
pull
Entries 84
Mean 185.2
Std Dev 0

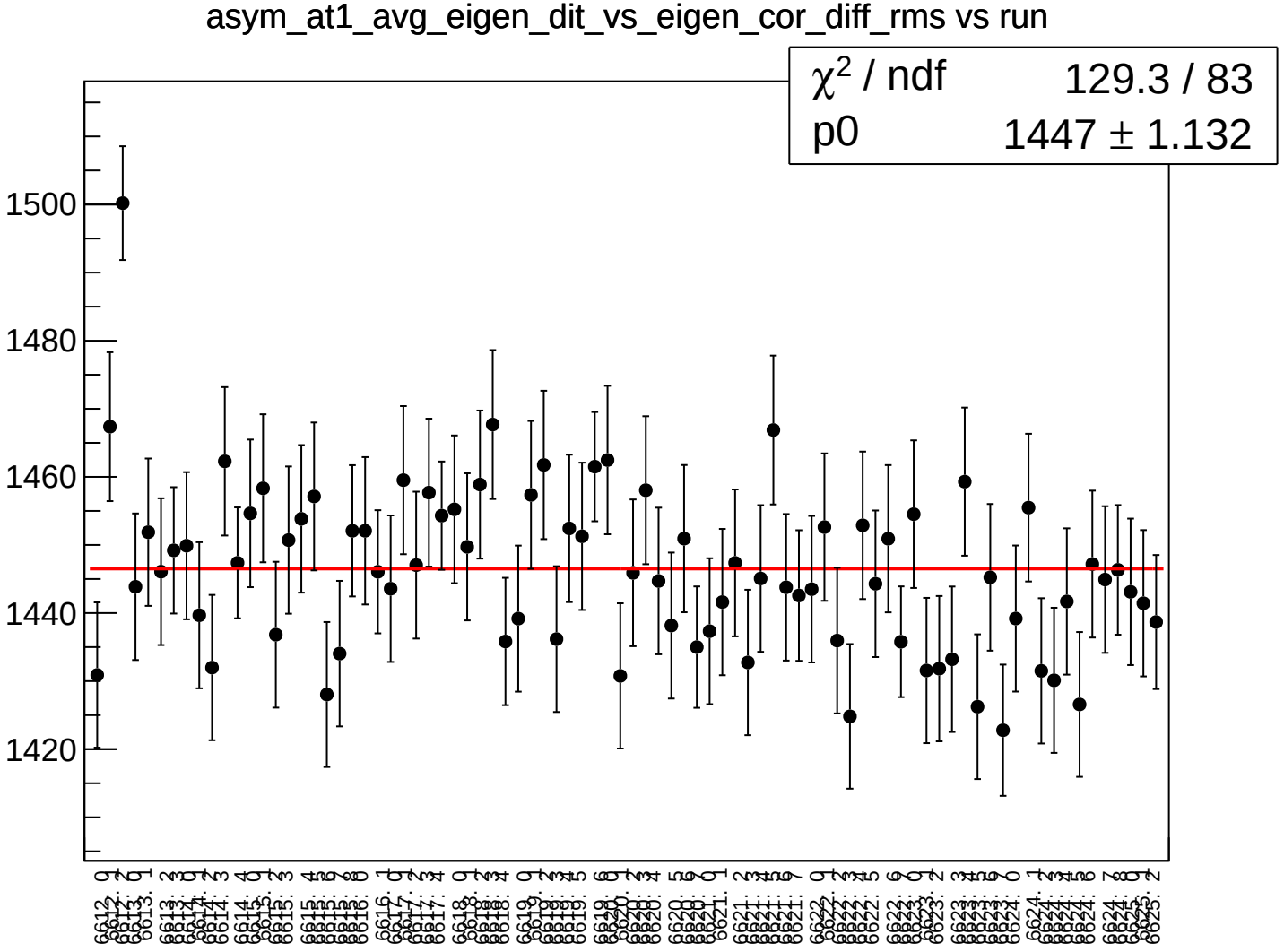

pull1D
Entries 84
Mean 0.01372
Std Dev 0.9395

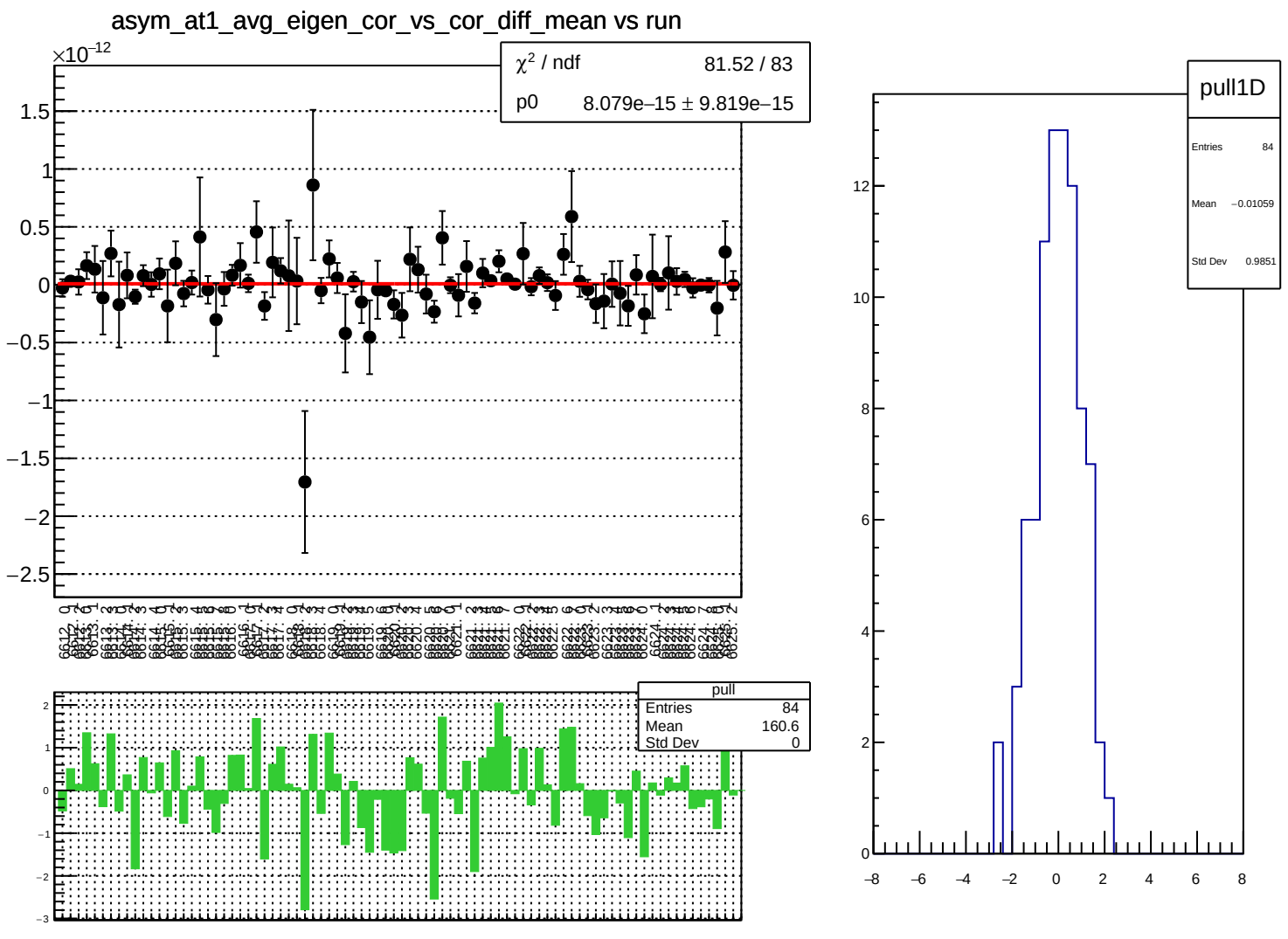

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.422e+04 / 83
p0 0.002264 ± 1.78e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

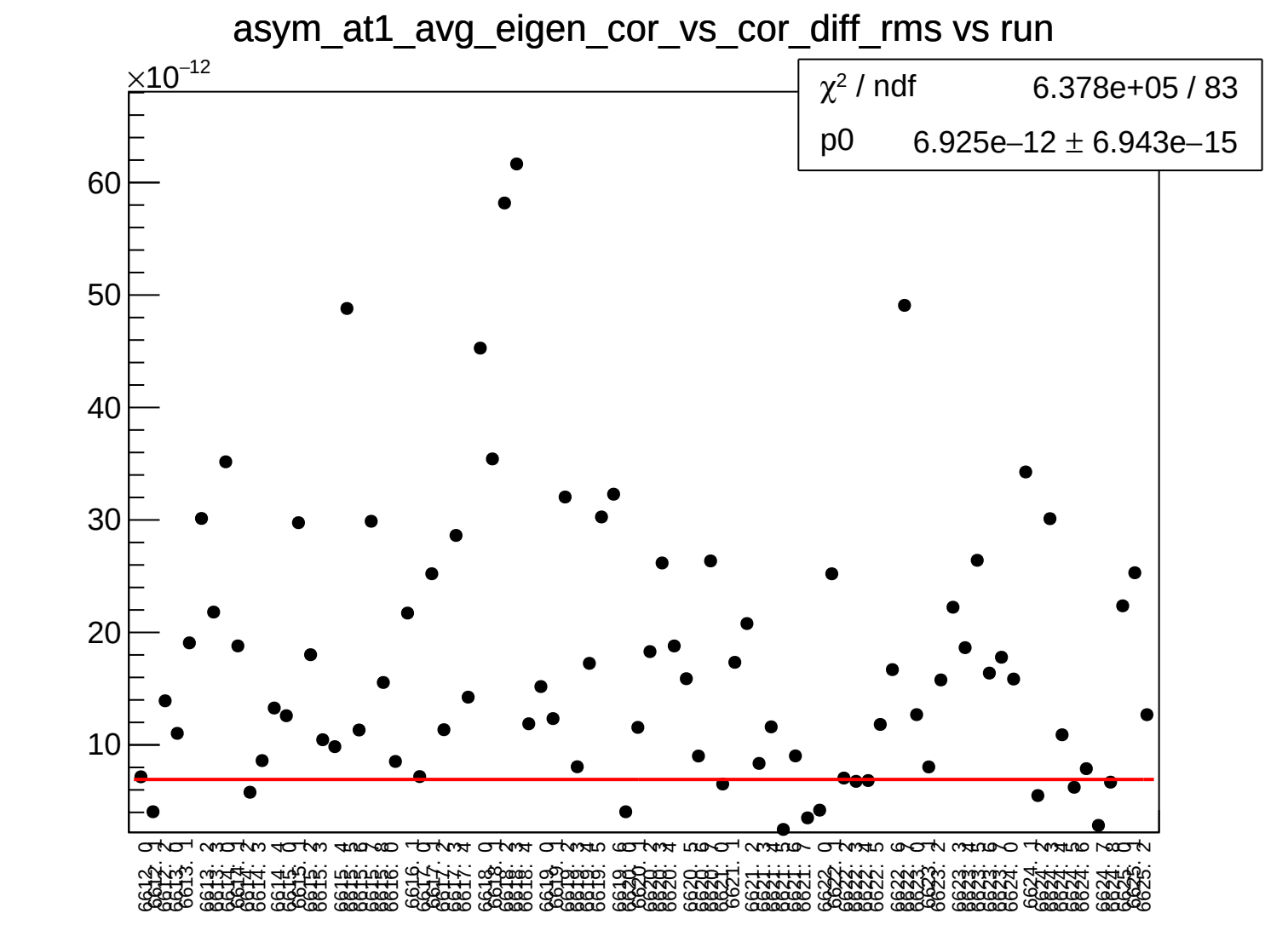

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.96 / 83
p0 −3.002 ± 1.601
pull
Entries 84
Mean −2.509e+04
Std Dev 0
pull1D
Entries 84
Mean −0.0001615
Std Dev 0.8928

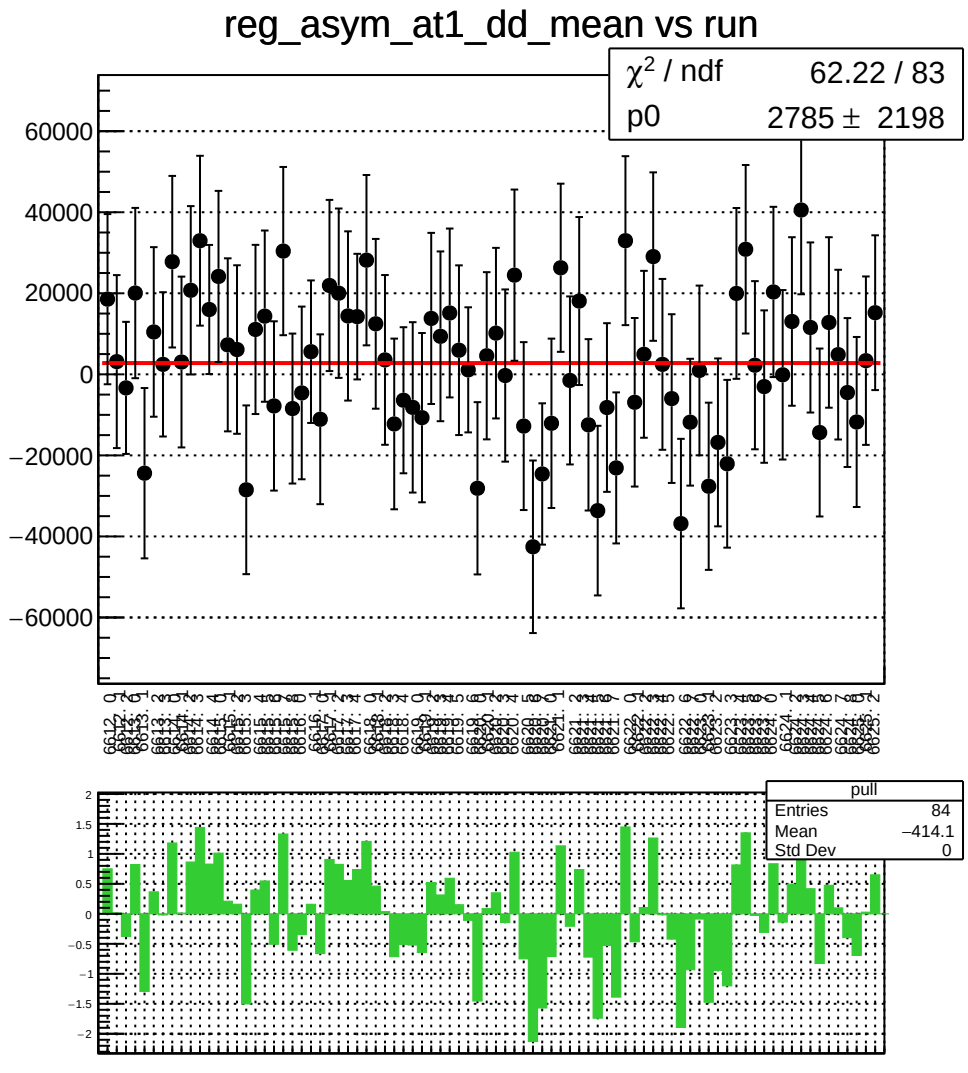

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 129.3 / 83
p0 1447 ± 1.132
1500
1480
1460
1440
1420

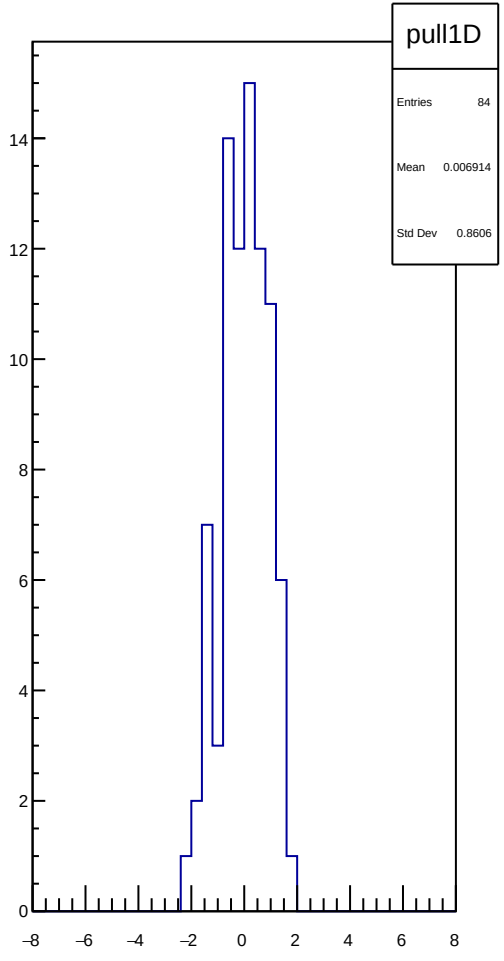

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.96 / 83
p0 −3.002 ± 1.601
pull
Entries 84
Mean −2.509e+04
Std Dev 0
pull1D
Entries 84
Mean −0.0001615
Std Dev 0.8928

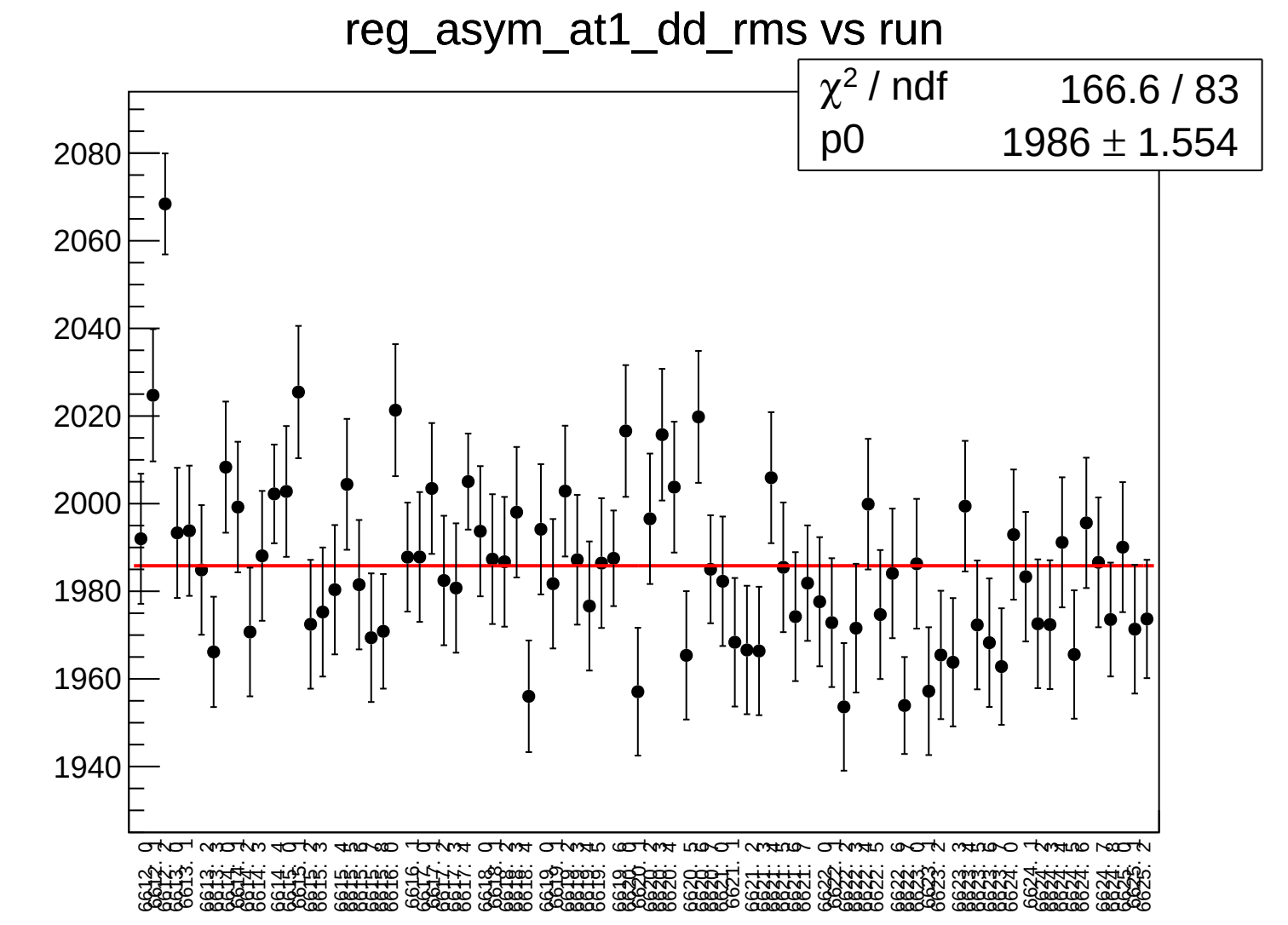

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 129.3 / 83
p0 1447 ± 1.132
1500
1480
1460
1440
1420

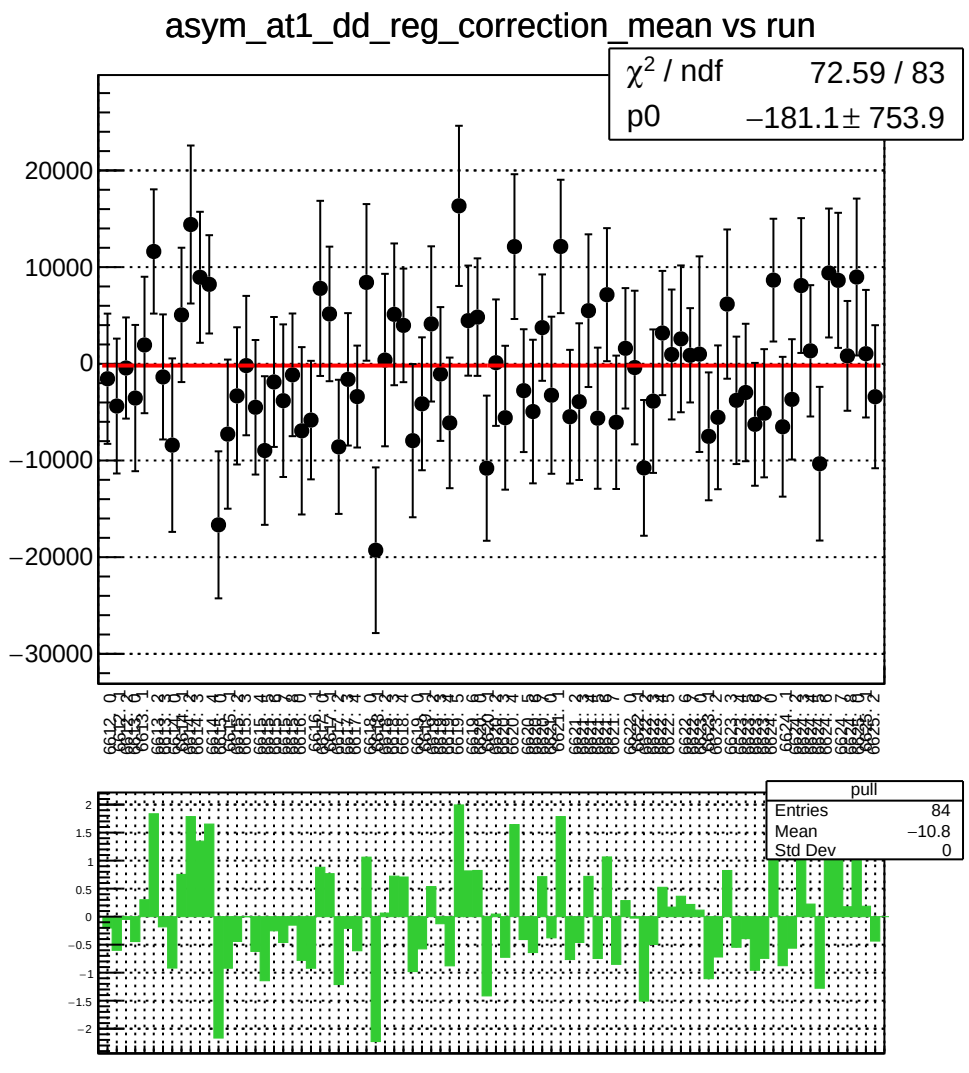

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.52 / 83
p0 8.079e−15 ± 9.819e−15
pull
Entries 84
Mean 160.6
Std Dev 0
pull1D
Entries 84
Mean −0.01059
Std Dev 0.9851

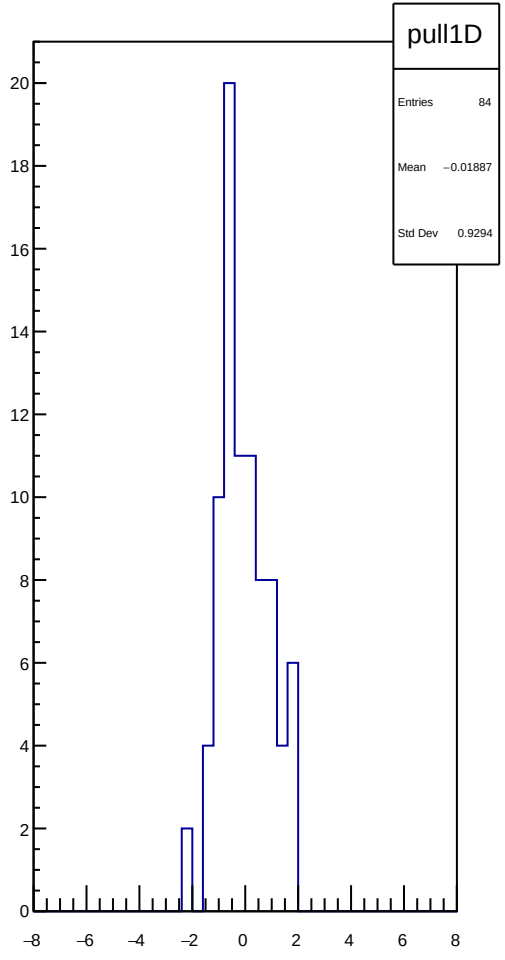

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.378e+05 / 83
p0 6.925e−12 ± 6.943e−15
60
50
40
30
20
10

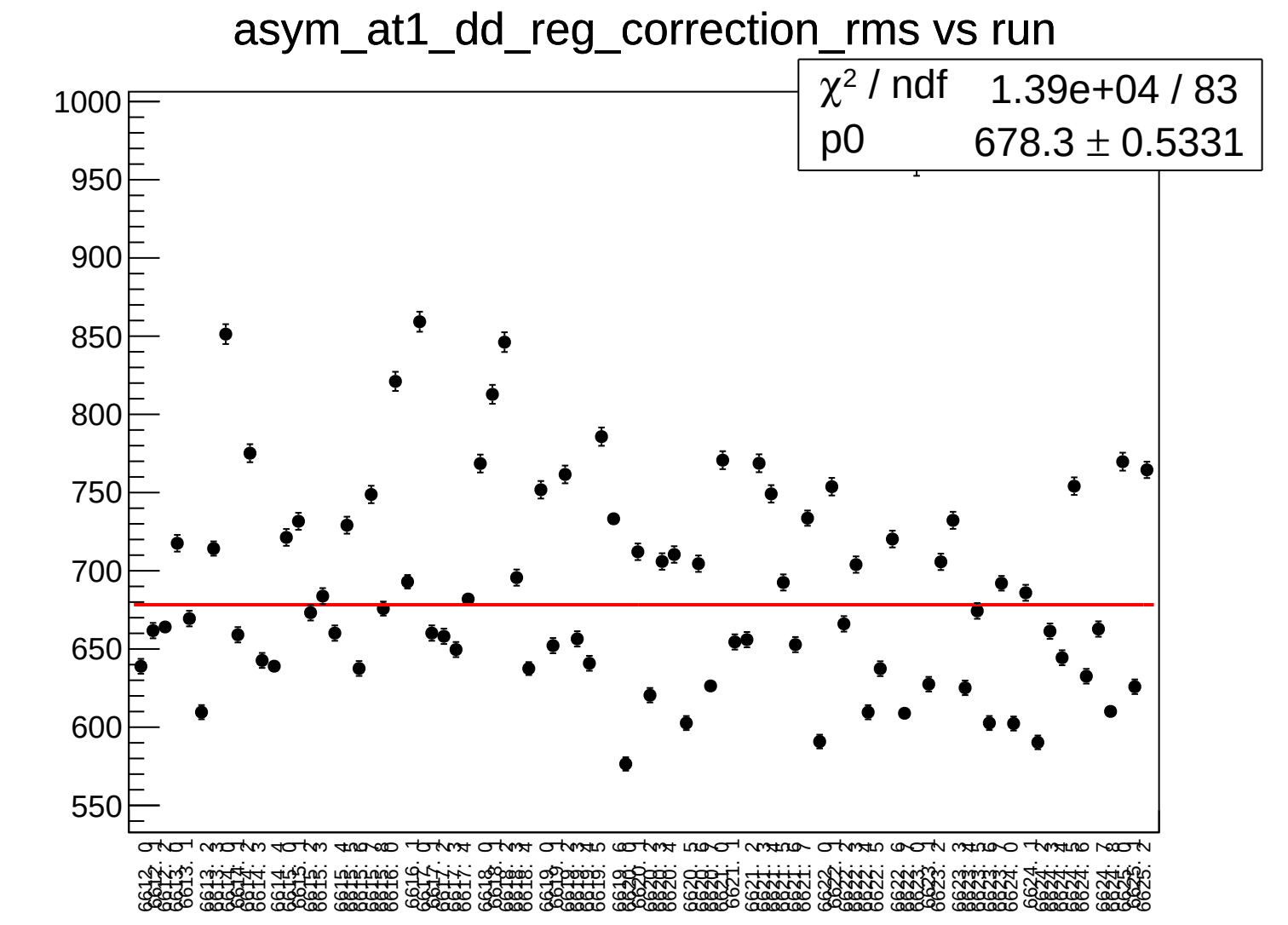

reg_asym_at1_dd_mean vs run
χ² / ndf 62.22 / 83
p0 2785 ± 2198
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −414.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

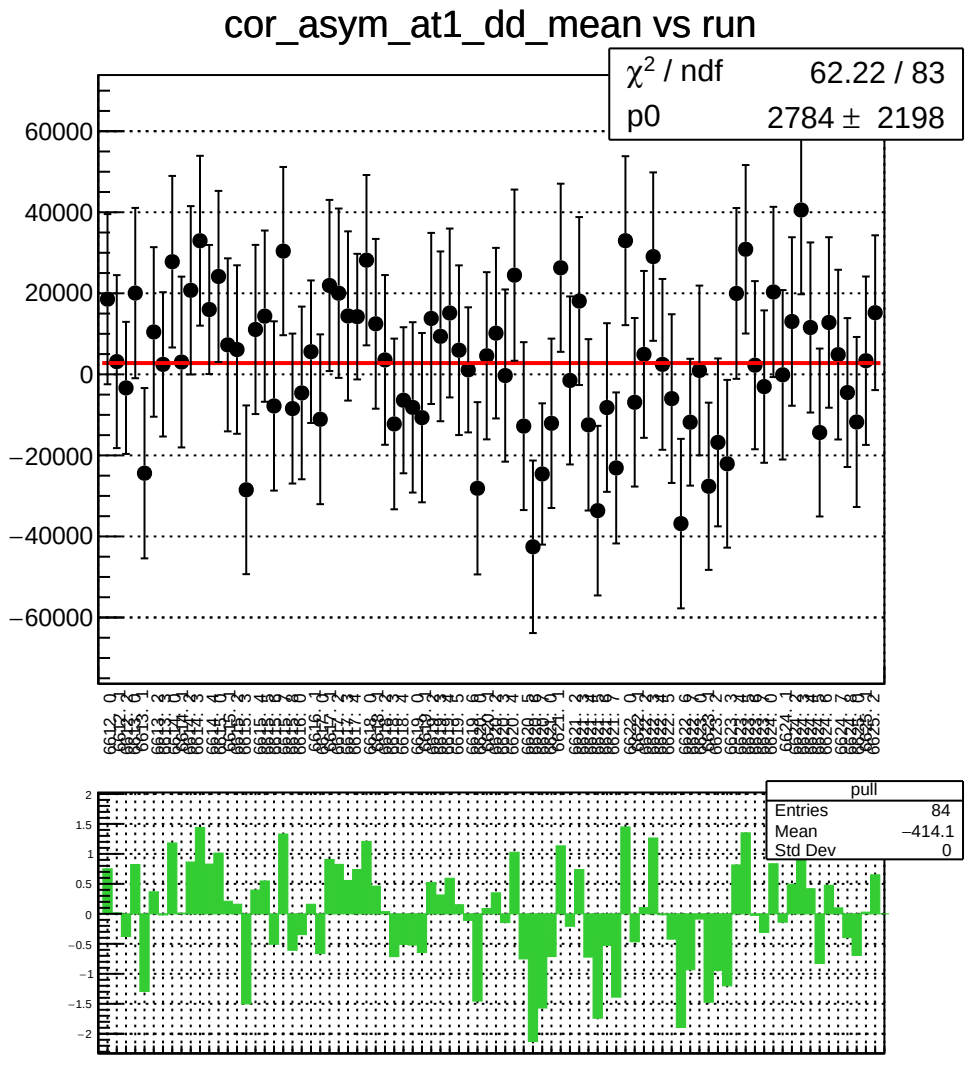

pull1D
Entries 84
Mean 0.006914
Std Dev 0.8606
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

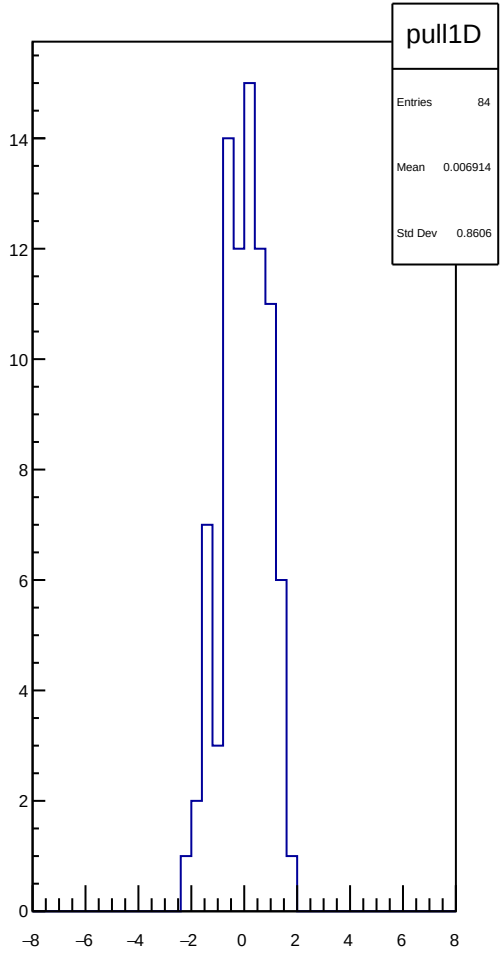

reg_asym_at1_dd_rms vs run
χ² / ndf 166.6 / 83
p0 1986 ± 1.554
2080
2060
2040
2020
2000
1980
1960
1940

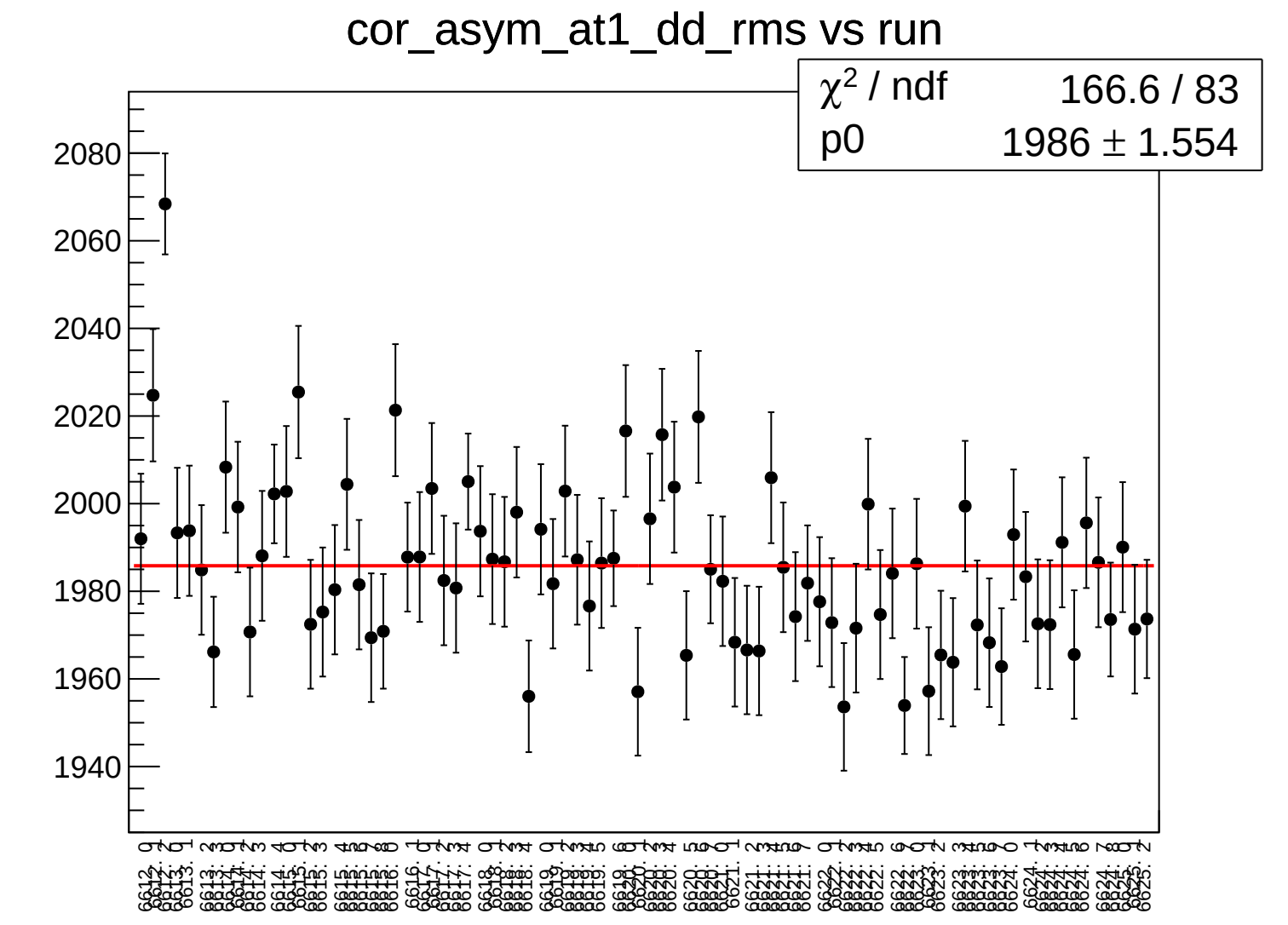

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 72.59 / 83
p0 −181.1± 753.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −10.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

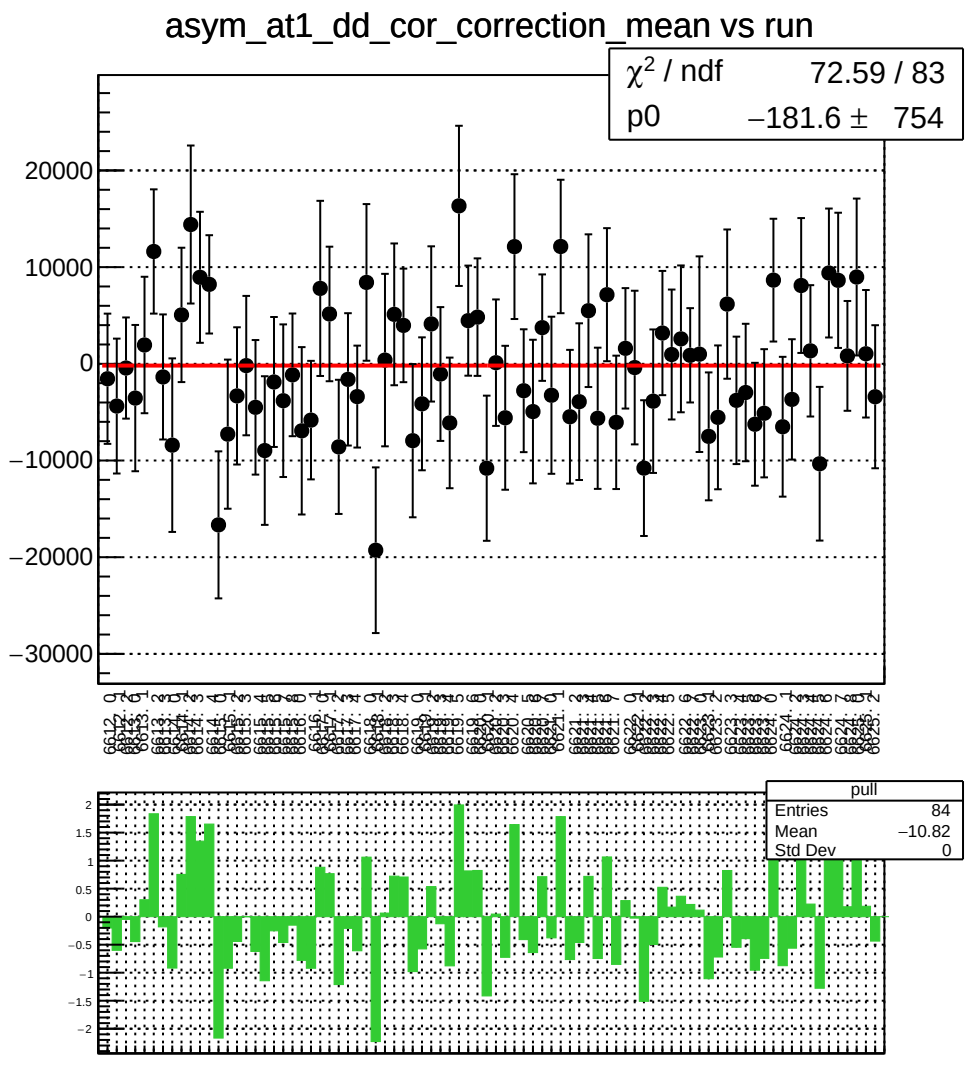

pull1D
Entries 84
Mean −0.01887
Std Dev 0.9294
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

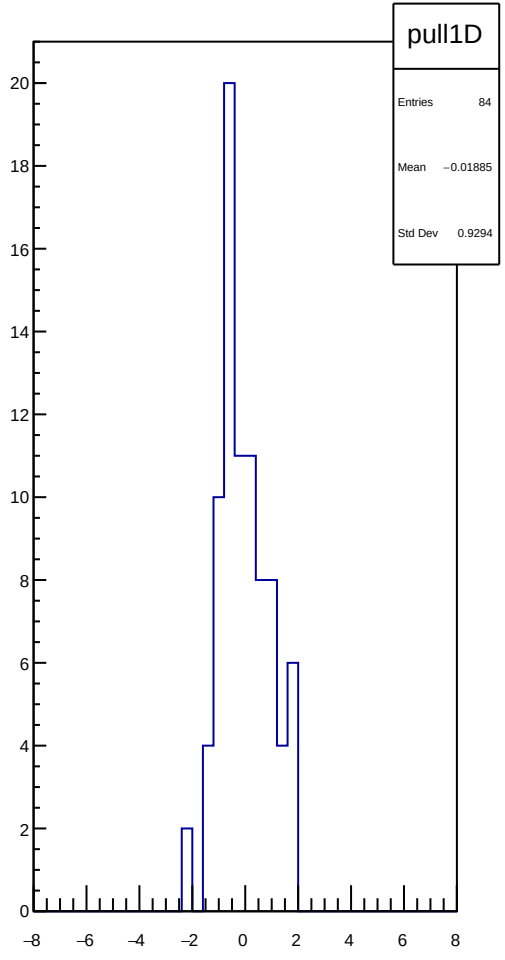

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1.39e+04 / 83
p0 678.3 ± 0.5331
1000
950
900
850
800
750
700
650
600
550

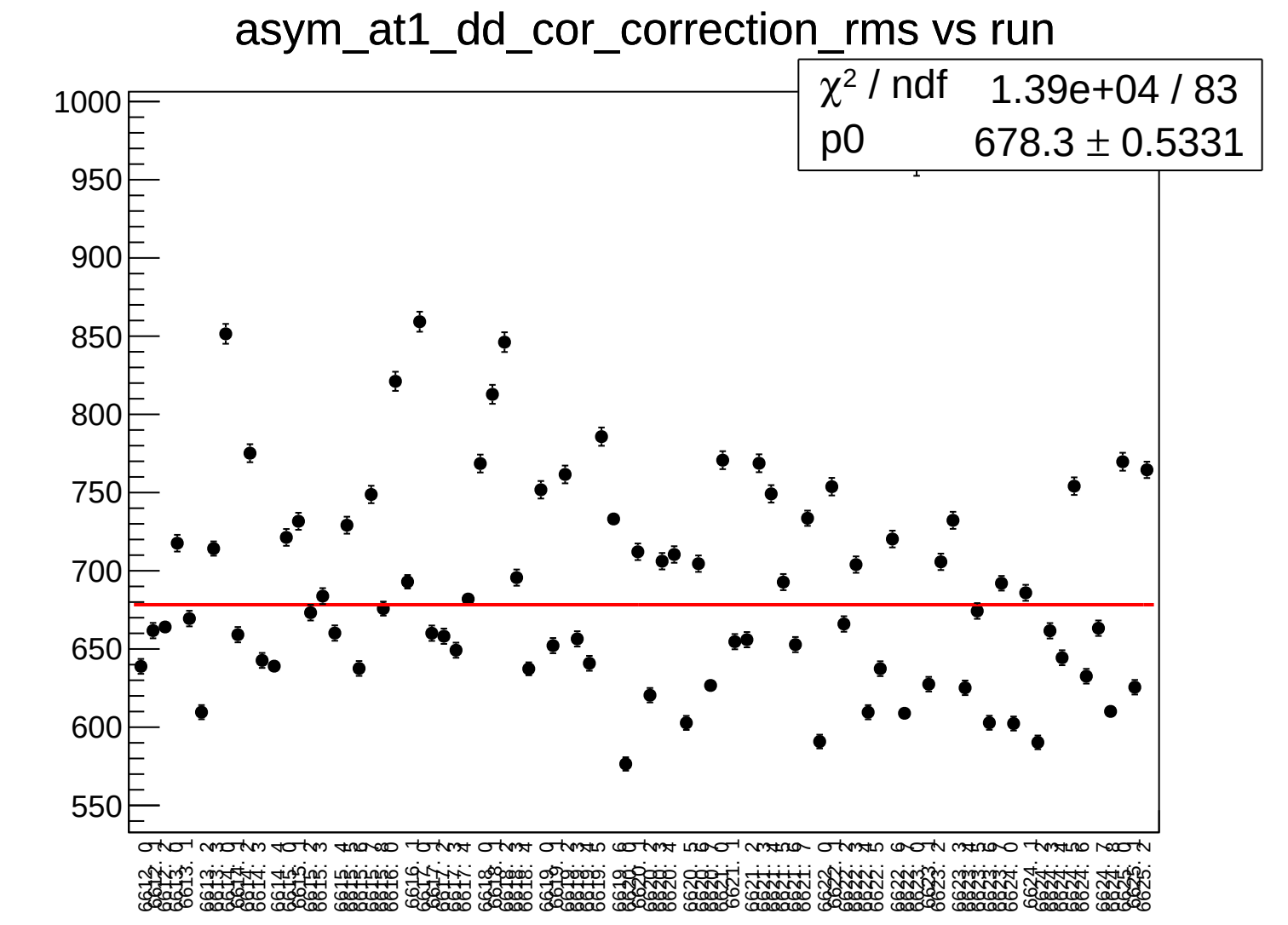

cor_asym_at1_dd_mean vs run
χ² / ndf 62.22 / 83
p0 2784 ± 2198
pull
Entries 84
Mean −414.1
Std Dev 0

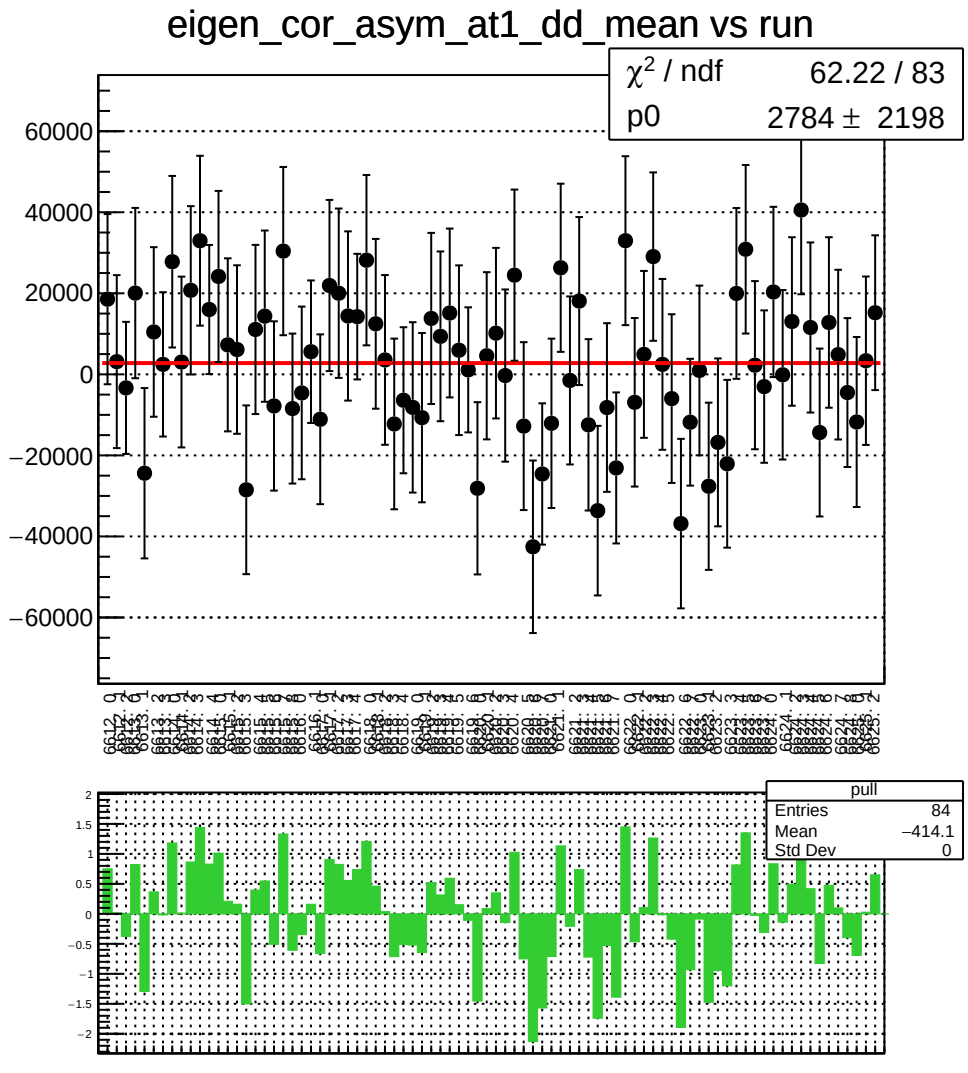

pull1D
Entries 84
Mean 0.006914
Std Dev 0.8606

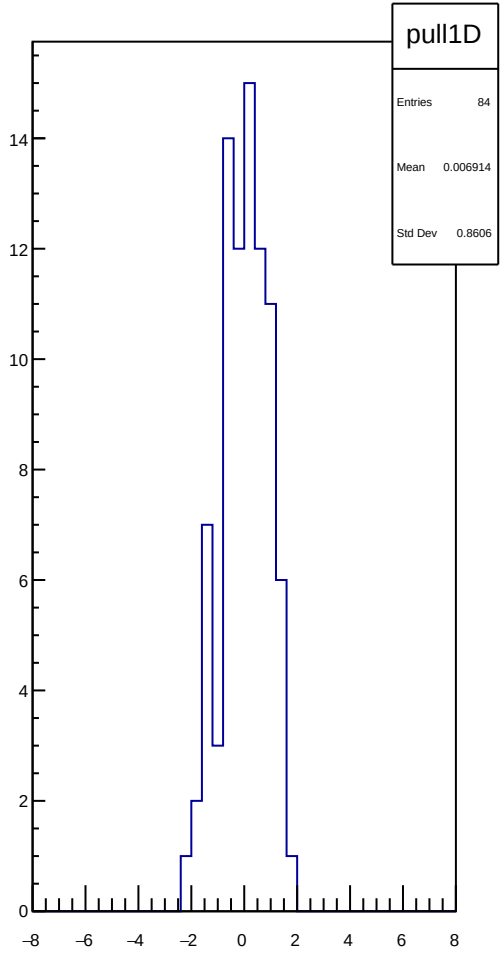

cor_asym_at1_dd_rms vs run
χ^2 / ndf 166.6 / 83
p0 1986 ± 1.554
2080
2060
2040
2020
2000
1980
1960
1940

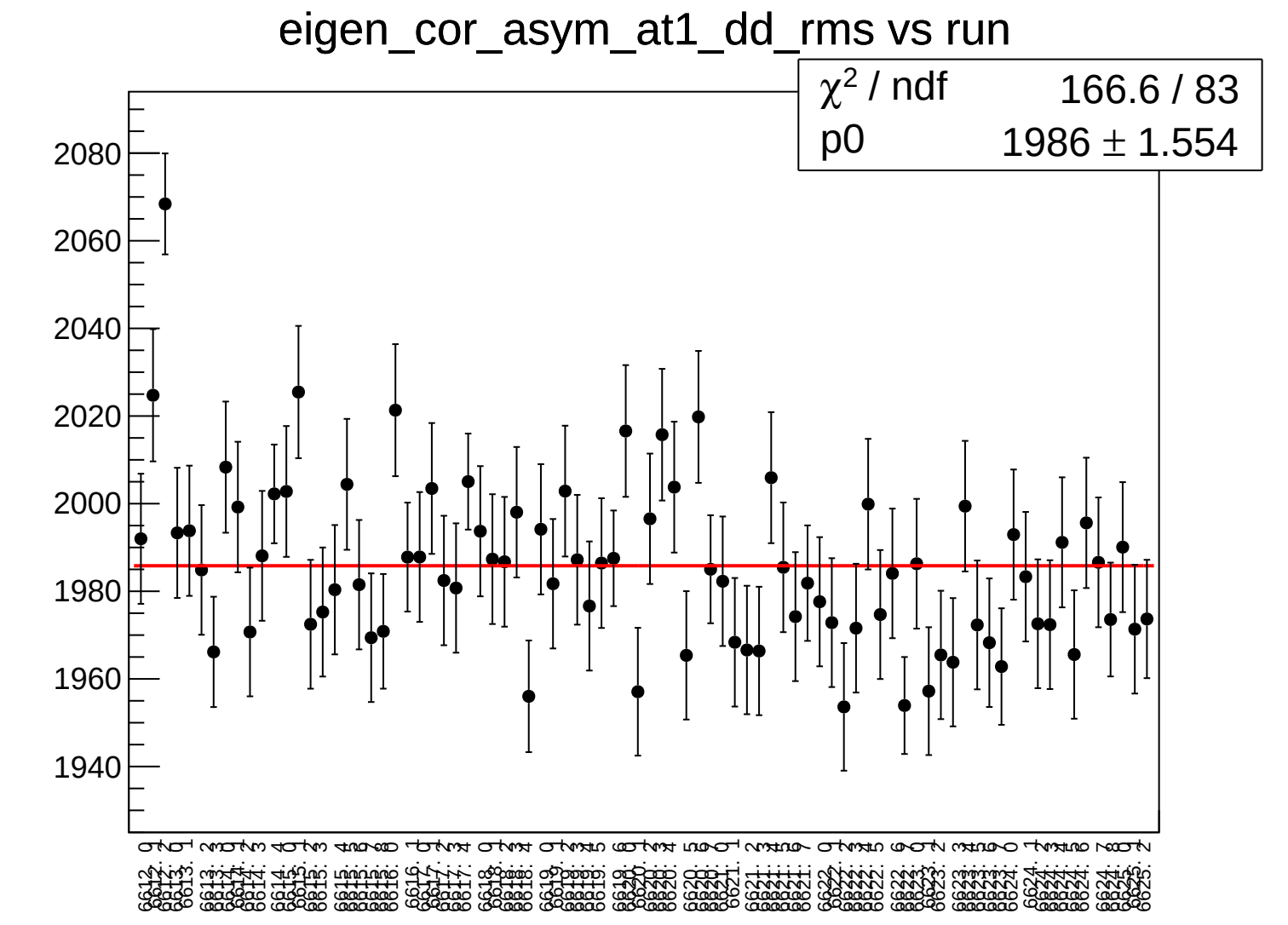

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 72.59 / 83
p0 −181.6 ± 754
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −10.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

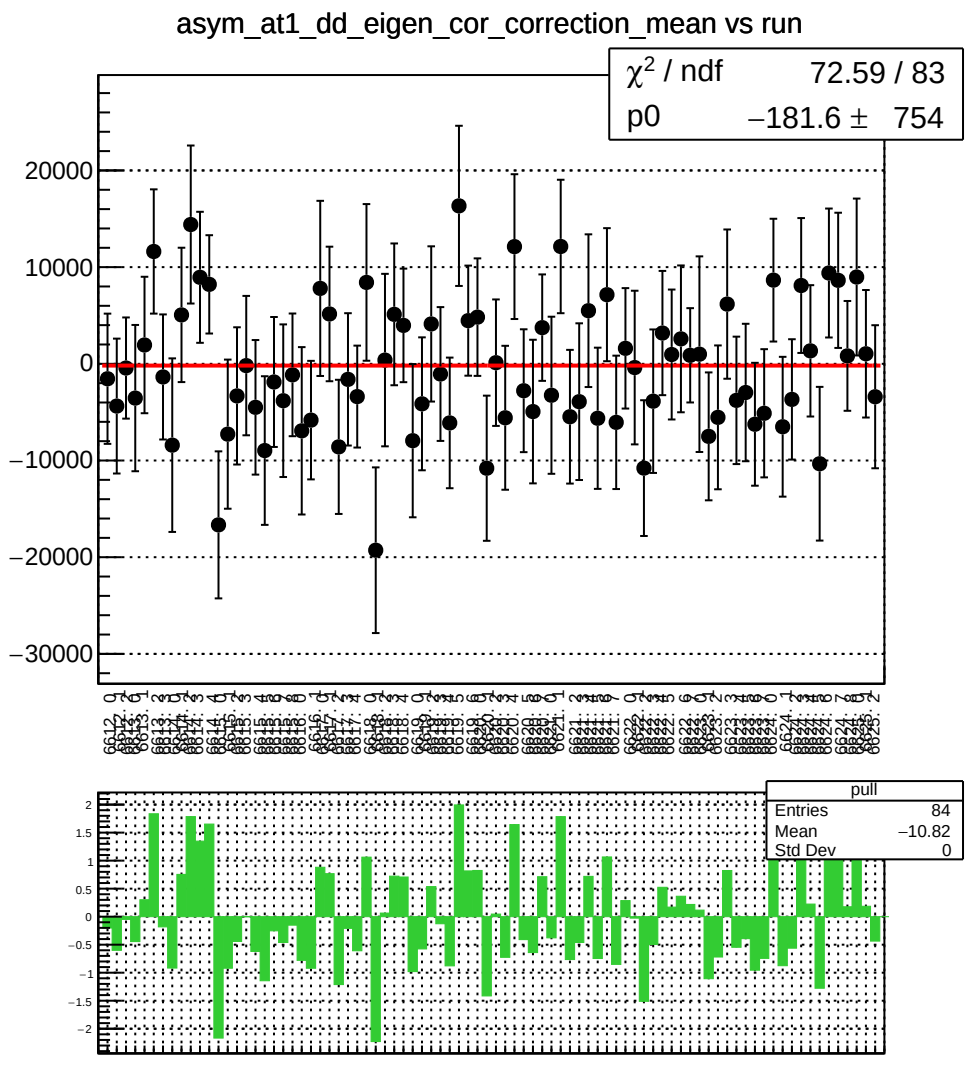

pull1D
Entries 84
Mean −0.01885
Std Dev 0.9294
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

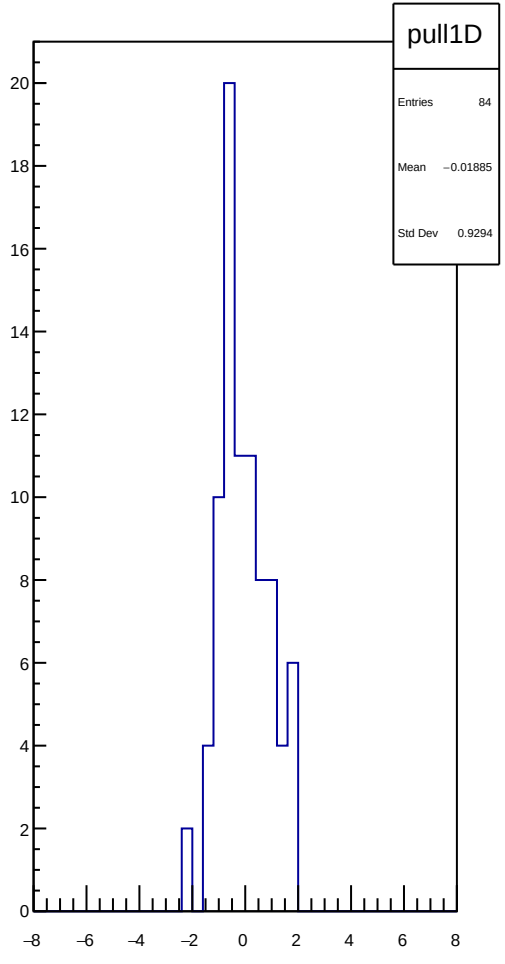

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.39e+04 / 83
p0 678.3 ± 0.5331
1000
950
900
850
800
750
700
650
600
550

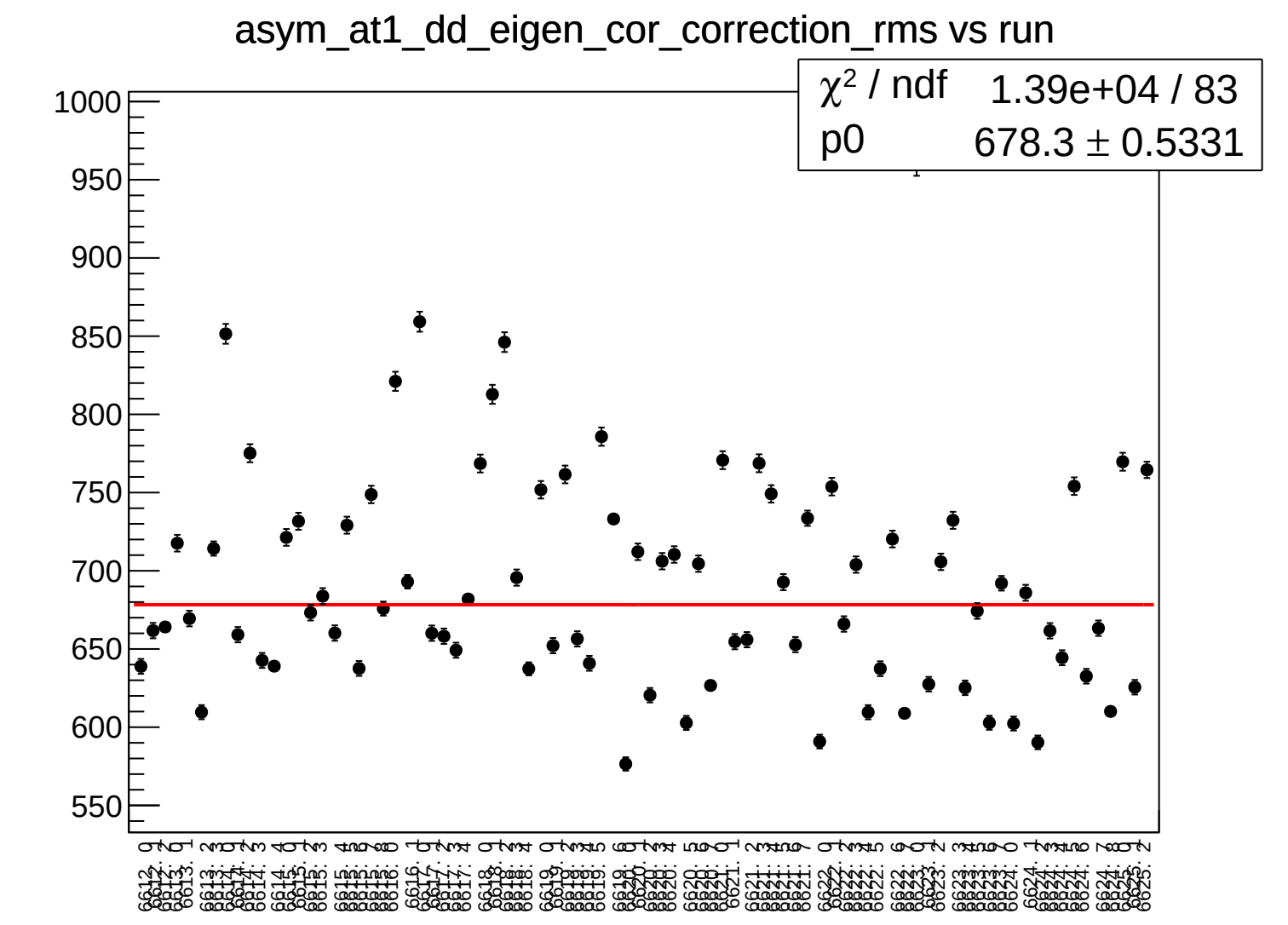

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 62.22 / 83
p0 2784 ± 2198
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −414.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

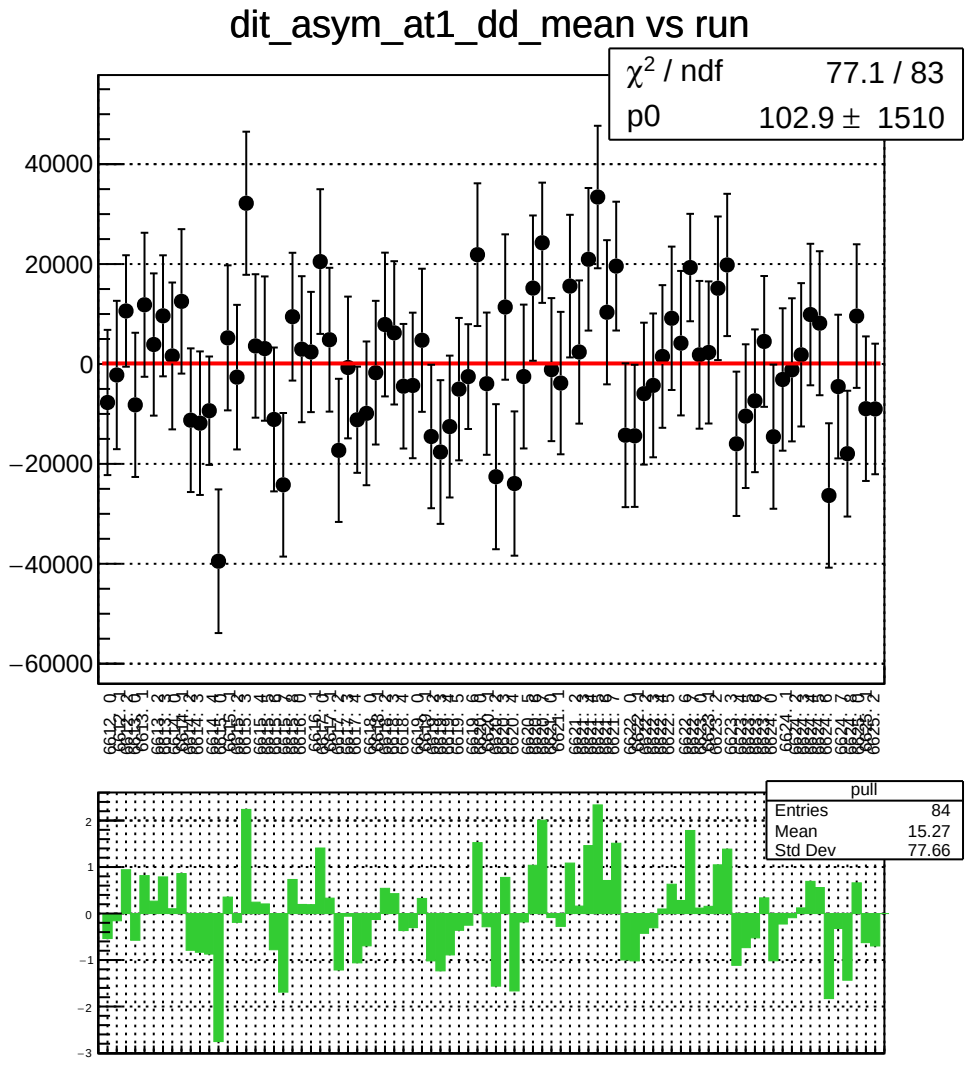

pull1D
Entries 84
Mean 0.006914
Std Dev 0.8606
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

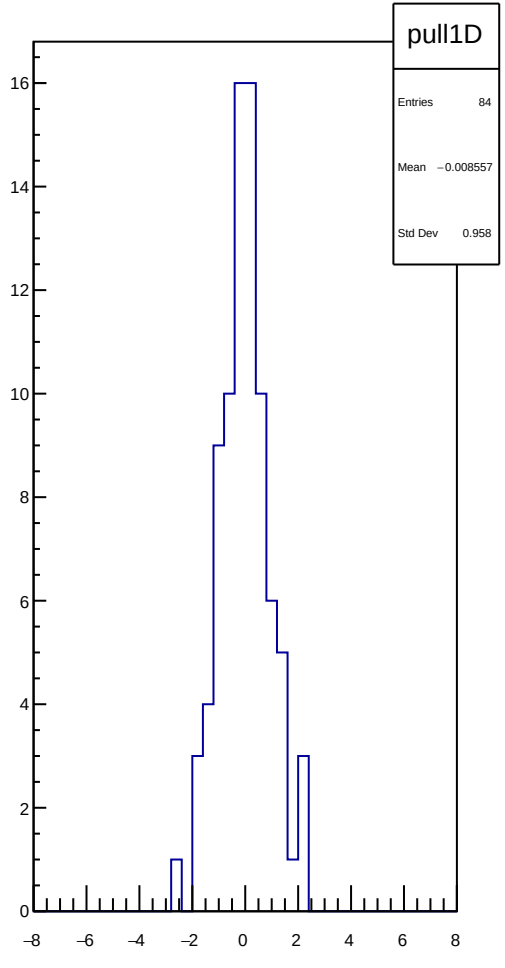

eigen_cor_asym_at1_dd_rms vs run
χ^2 / ndf 166.6 / 83
p0 1986 ± 1.554
2080
2060
2040
2020
2000
1980
1960
1940

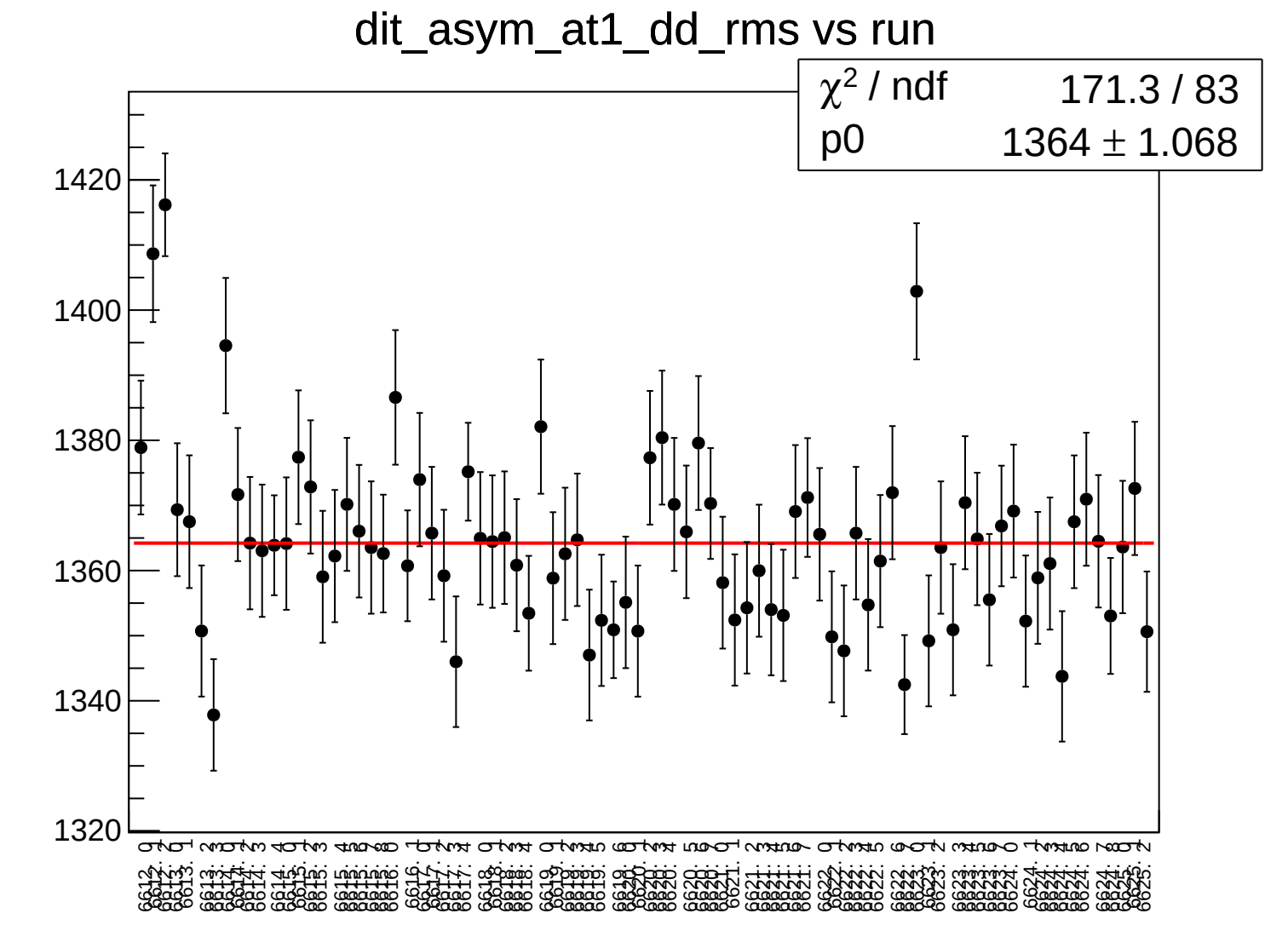

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.59 / 83
p0 −181.6 ± 754
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −10.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

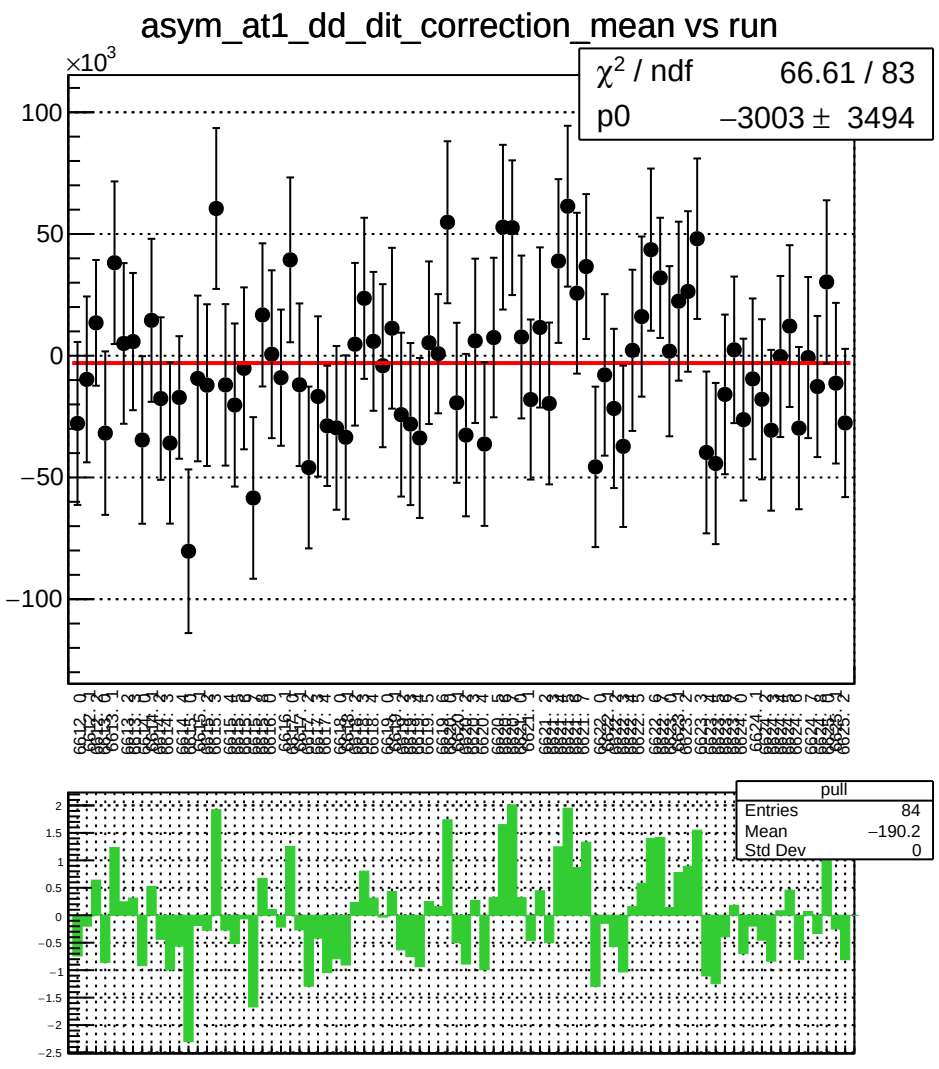

pull1D
Entries 84
Mean −0.01885
Std Dev 0.9294
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

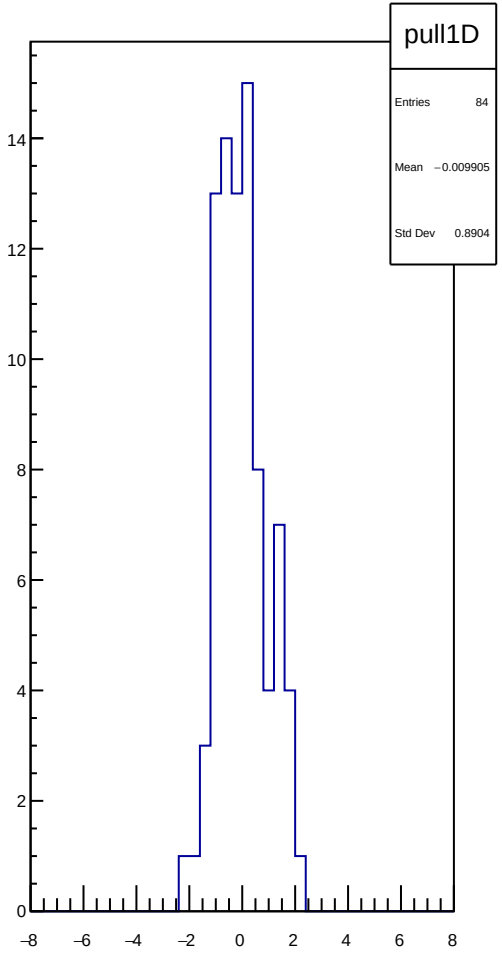

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.39e+04 / 83
p0 678.3 ± 0.5331
1000
950
900
850
800
750
700
650
600
550

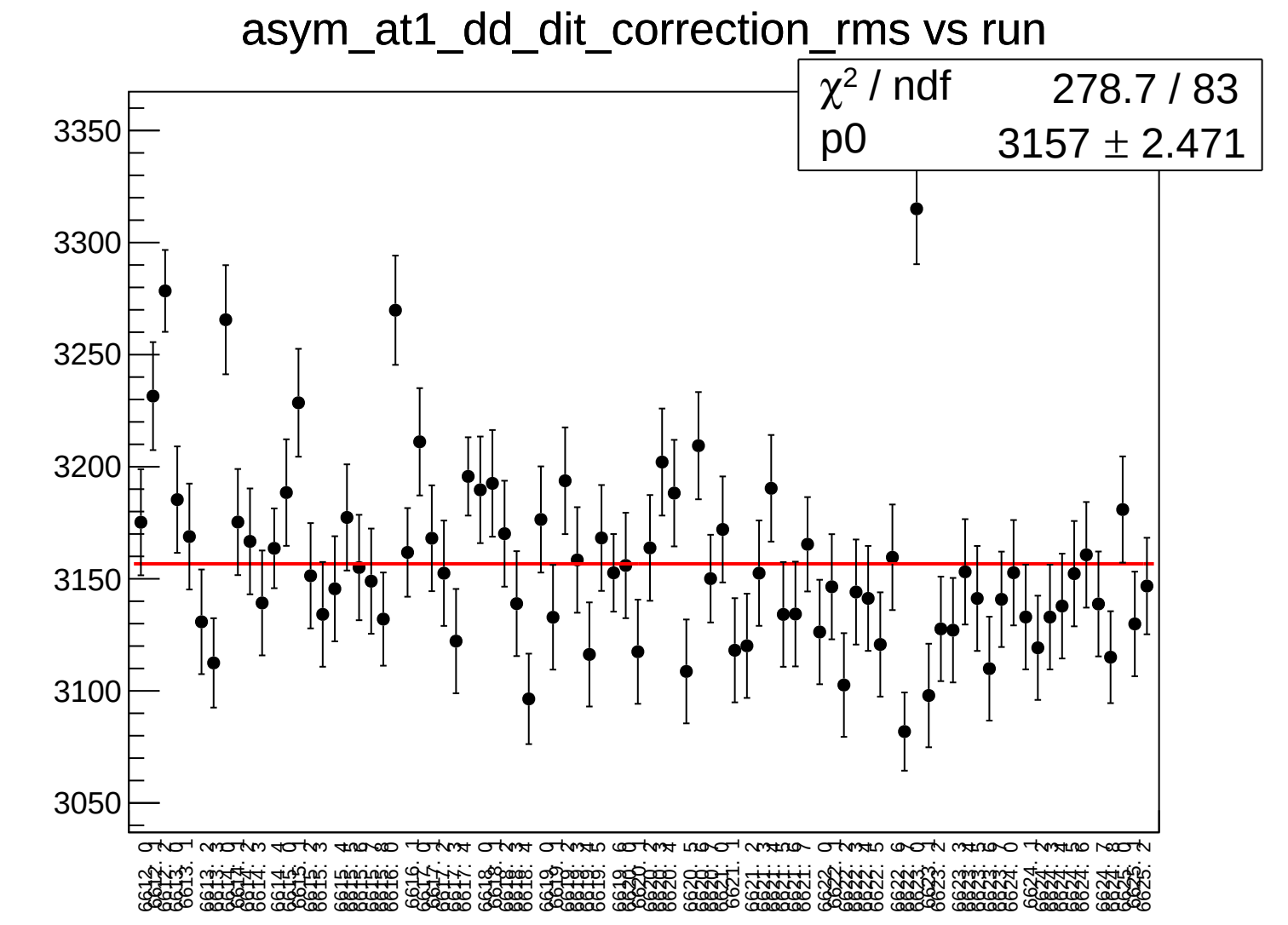

dit_asym_at1_dd_mean vs run
χ² / ndf 77.1 / 83
p0 102.9 ± 1510
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 15.27
Std Dev 77.66
2
1
0
−1
−2
−3

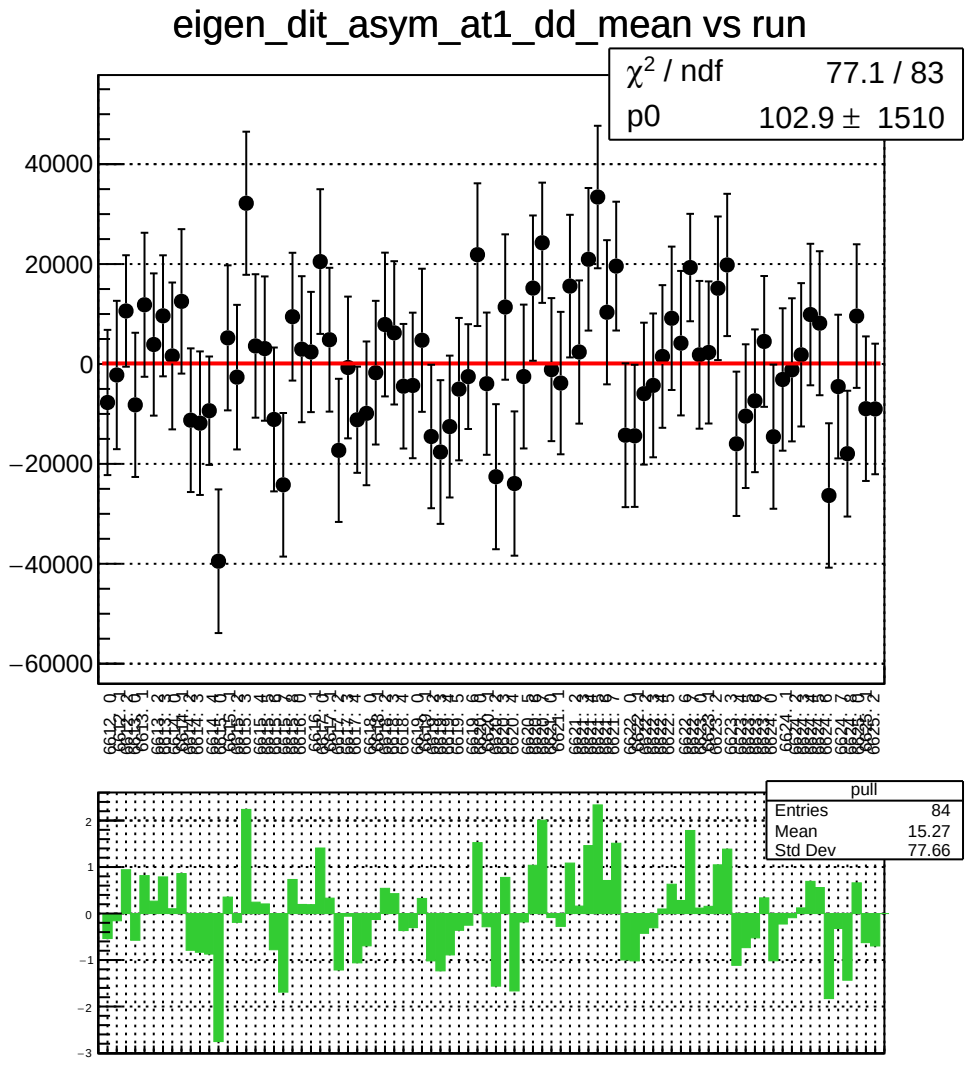

pull1D
Entries 84
Mean −0.008557
Std Dev 0.958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

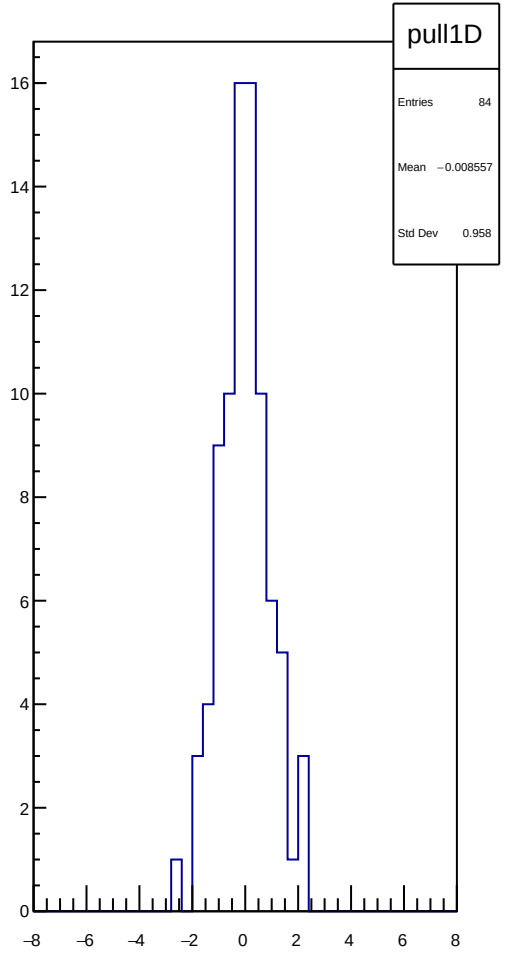

dit_asym_at1_dd_rms vs run
χ² / ndf 171.3 / 83
p0 1364 ± 1.068
1420
1400
1380
1360
1340
1320

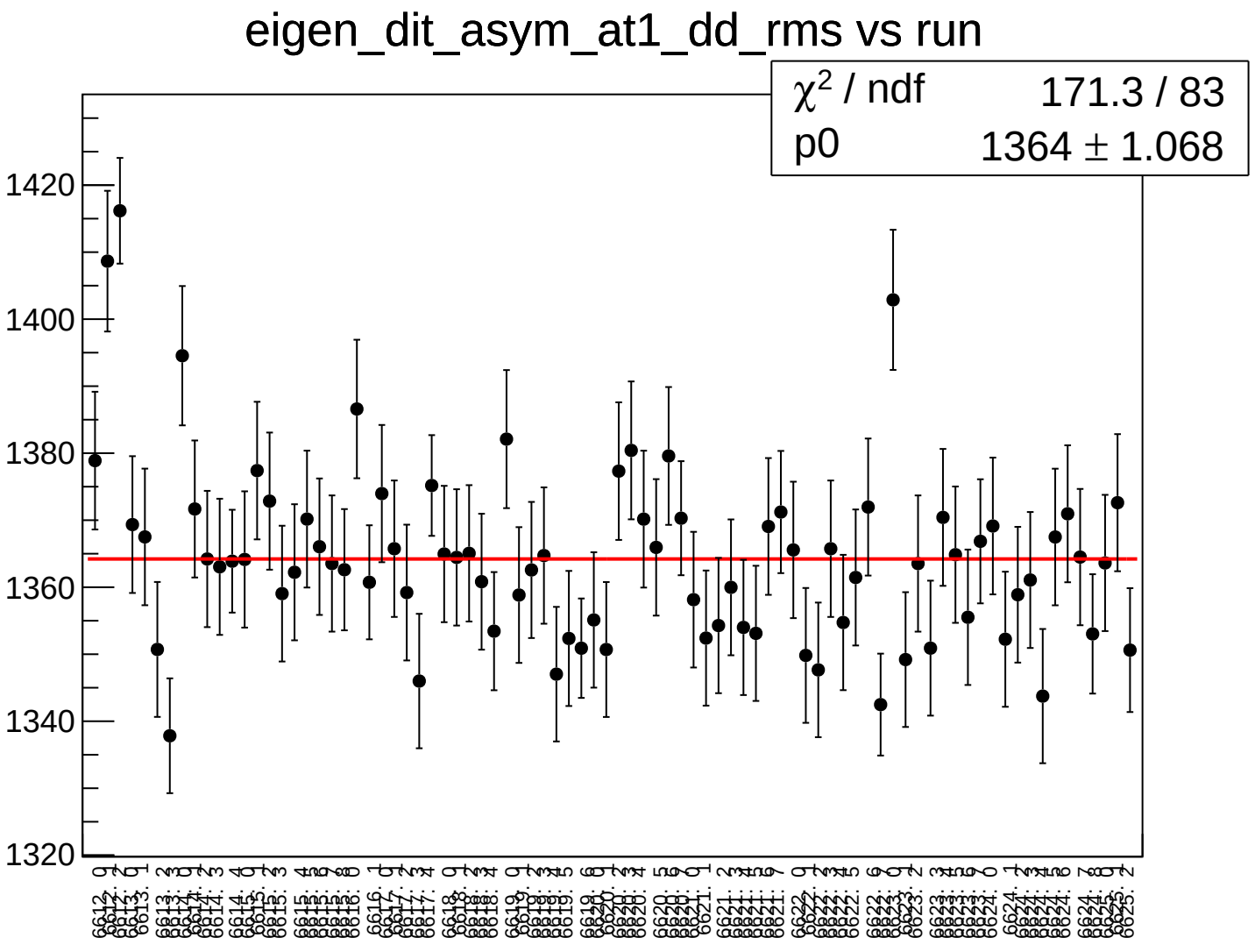

asym_at1_dd_dit_correction_mean vs run
×10^3
χ² / ndf 66.61 / 83
p0 −3003 ± 3494
pull
Entries 84
Mean −190.2
Std Dev 0

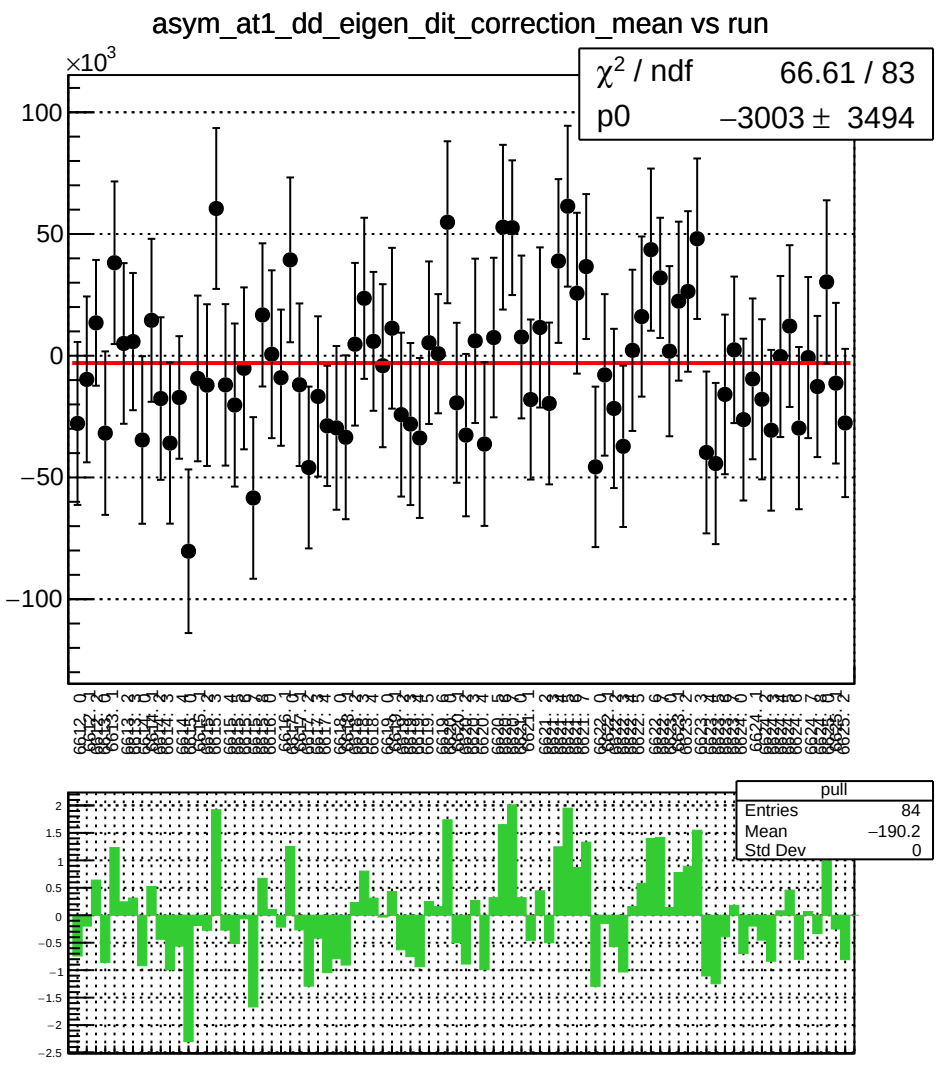

pull1D
Entries 84
Mean −0.009905
Std Dev 0.8904

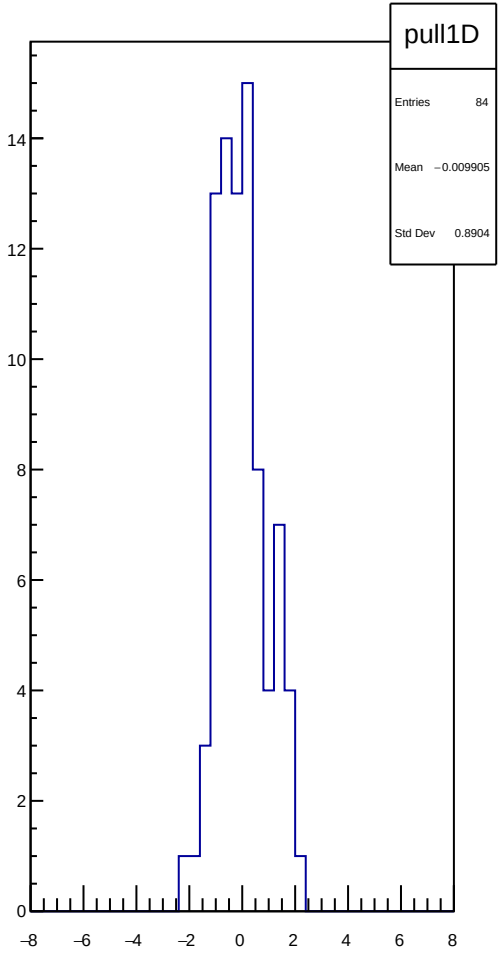

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 278.7 / 83
p0 3157 ± 2.471
3350
3300
3250
3200
3150
3100
3050

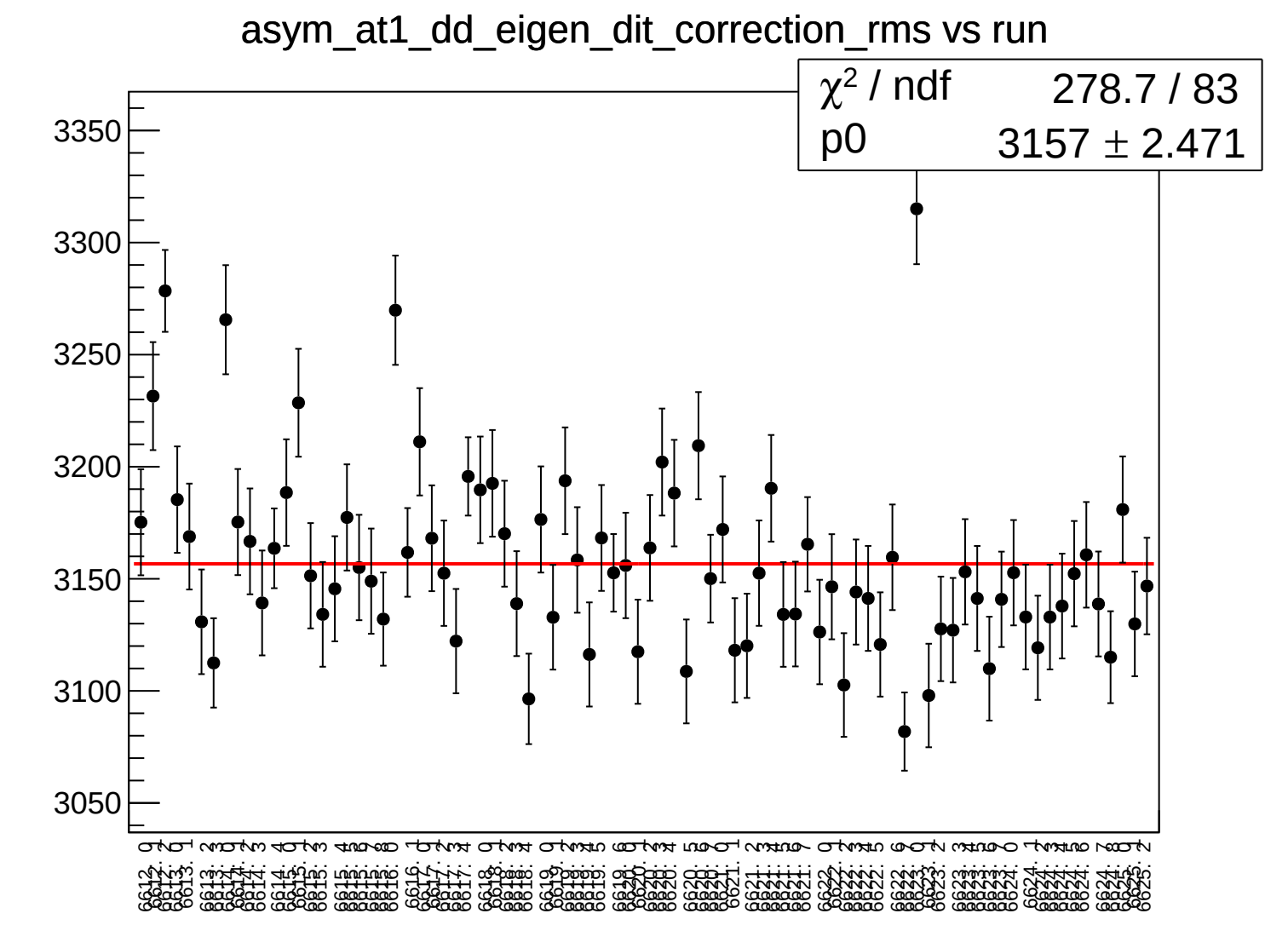

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 77.1 / 83
p0 102.9 ± 1510
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 15.27
Std Dev 77.66
2
1
0
−1
−2
−3

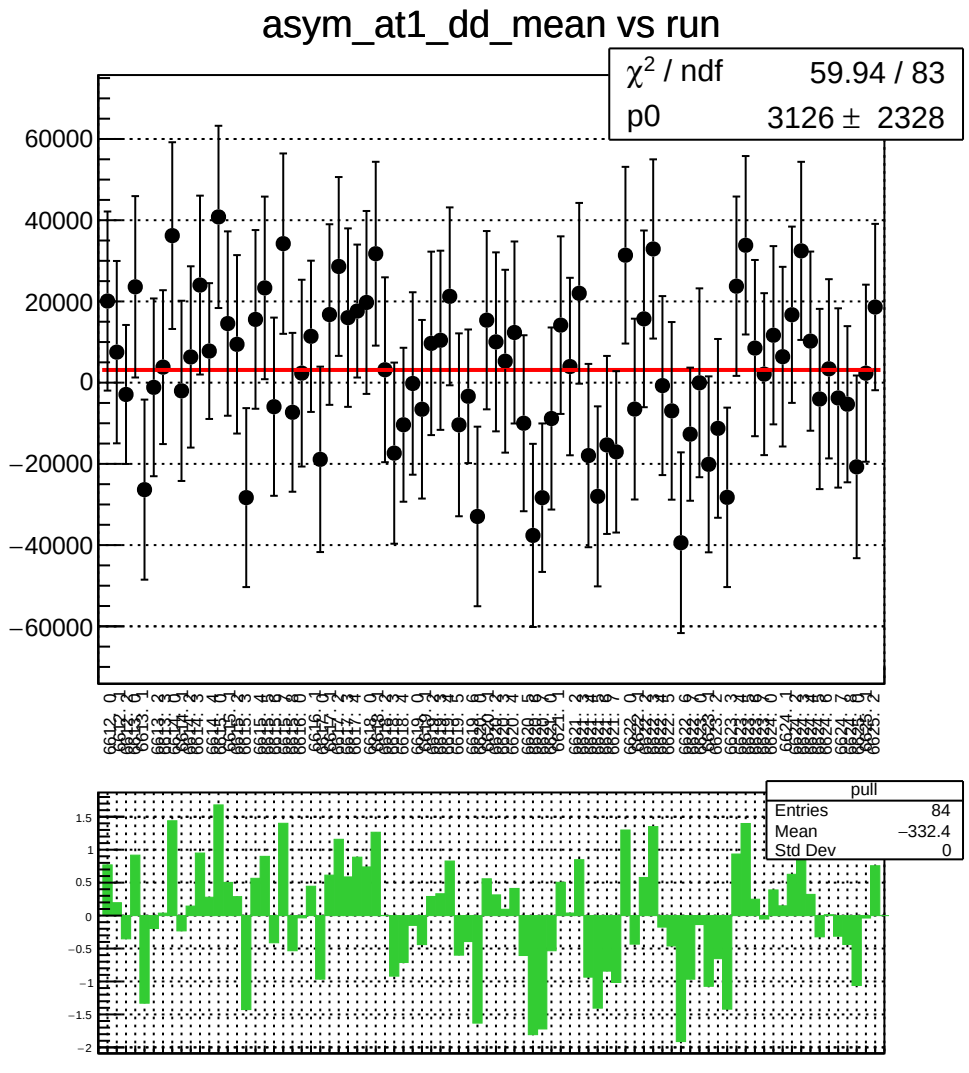

pull1D
Entries 84
Mean −0.008557
Std Dev 0.958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

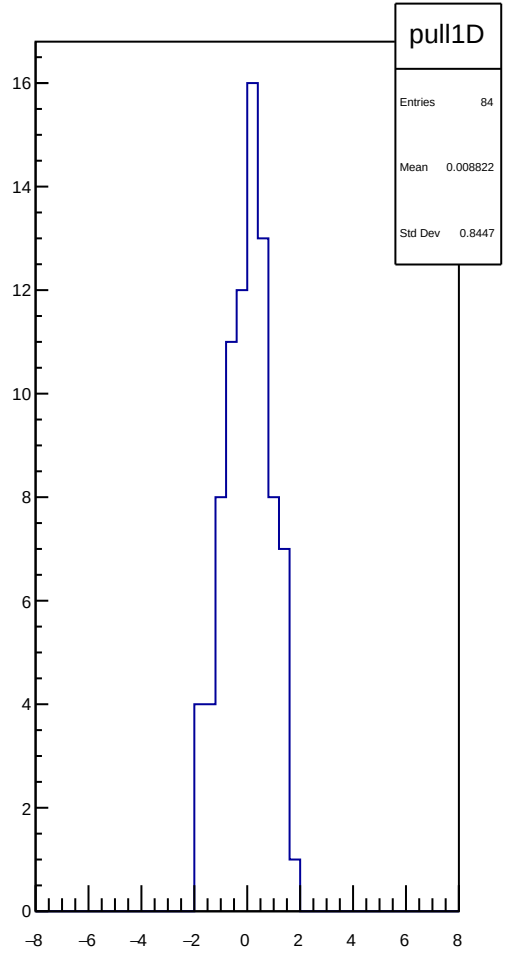

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 171.3 / 83
p0 1364 ± 1.068
1420
1400
1380
1360
1340
1320

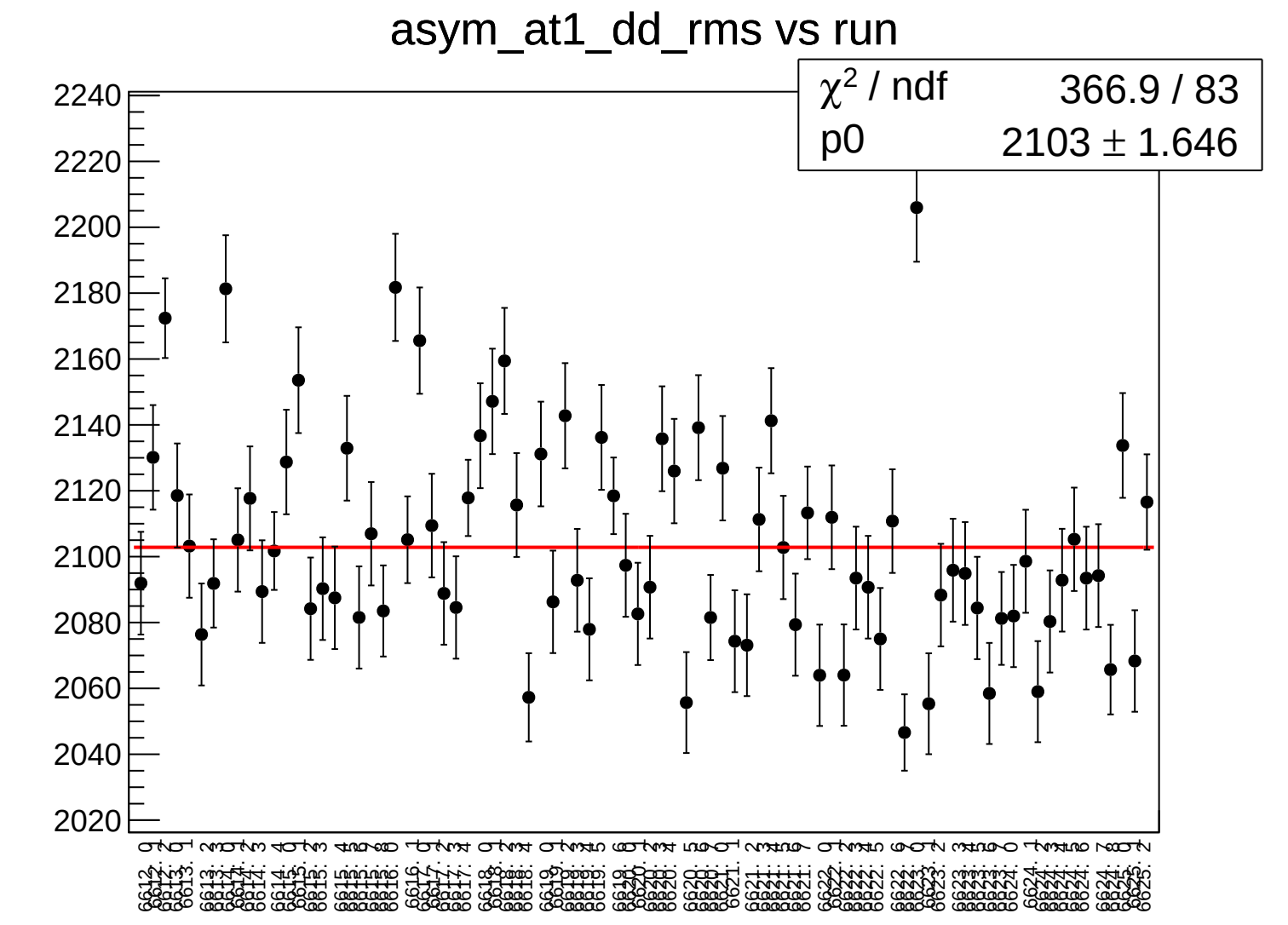

asym_at1_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.61 / 83
p0 −3003 ± 3494
pull
Entries 84
Mean −190.2
Std Dev 0

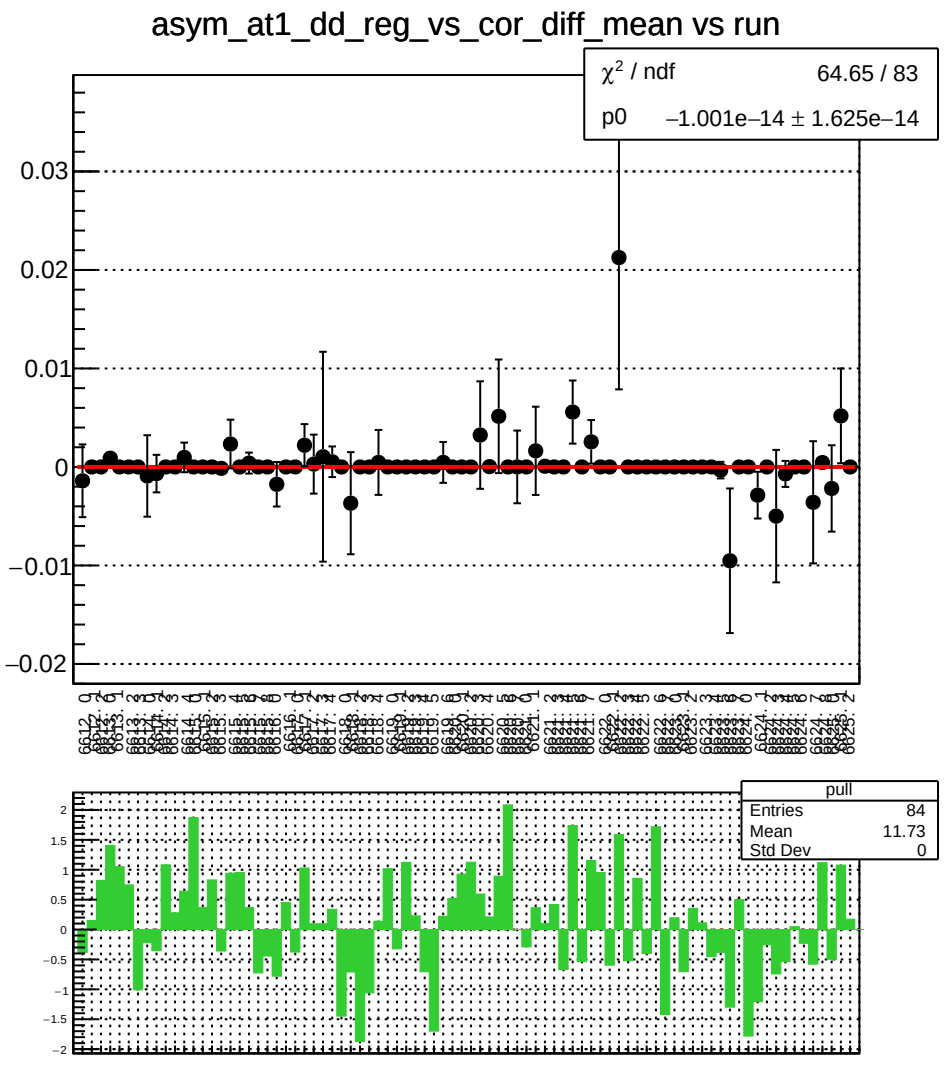

pull1D
Entries 84
Mean −0.009905
Std Dev 0.8904

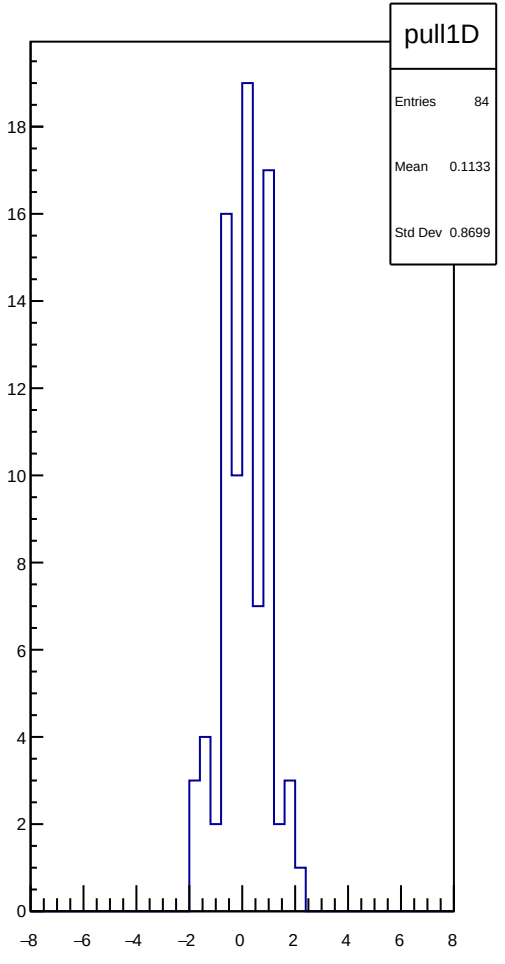

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 278.7 / 83
p0 3157 ± 2.471
3350
3300
3250
3200
3150
3100
3050

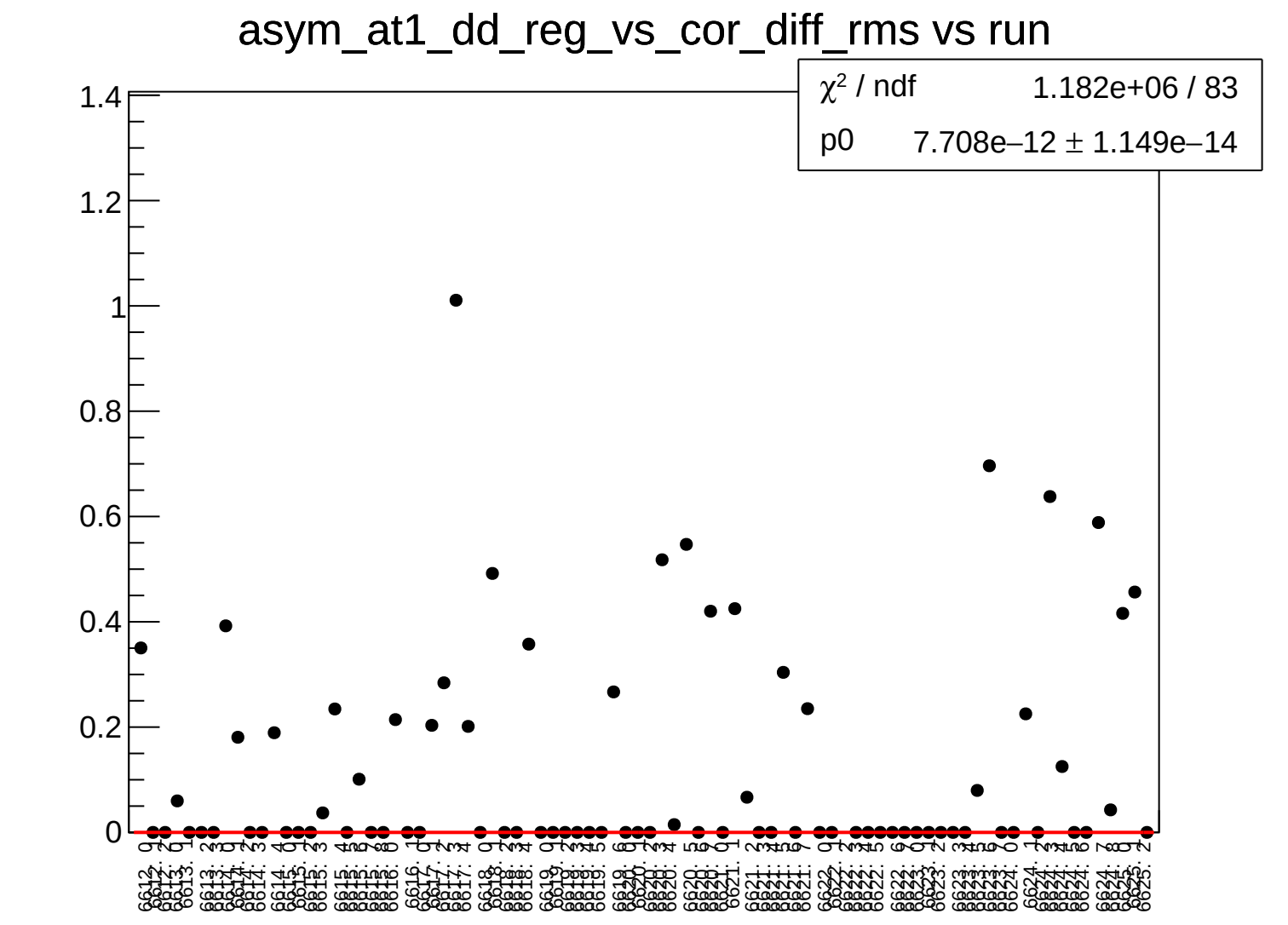

asym_at1_dd_mean vs run
χ² / ndf 59.94 / 83
p0 3126 ± 2328
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −332.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

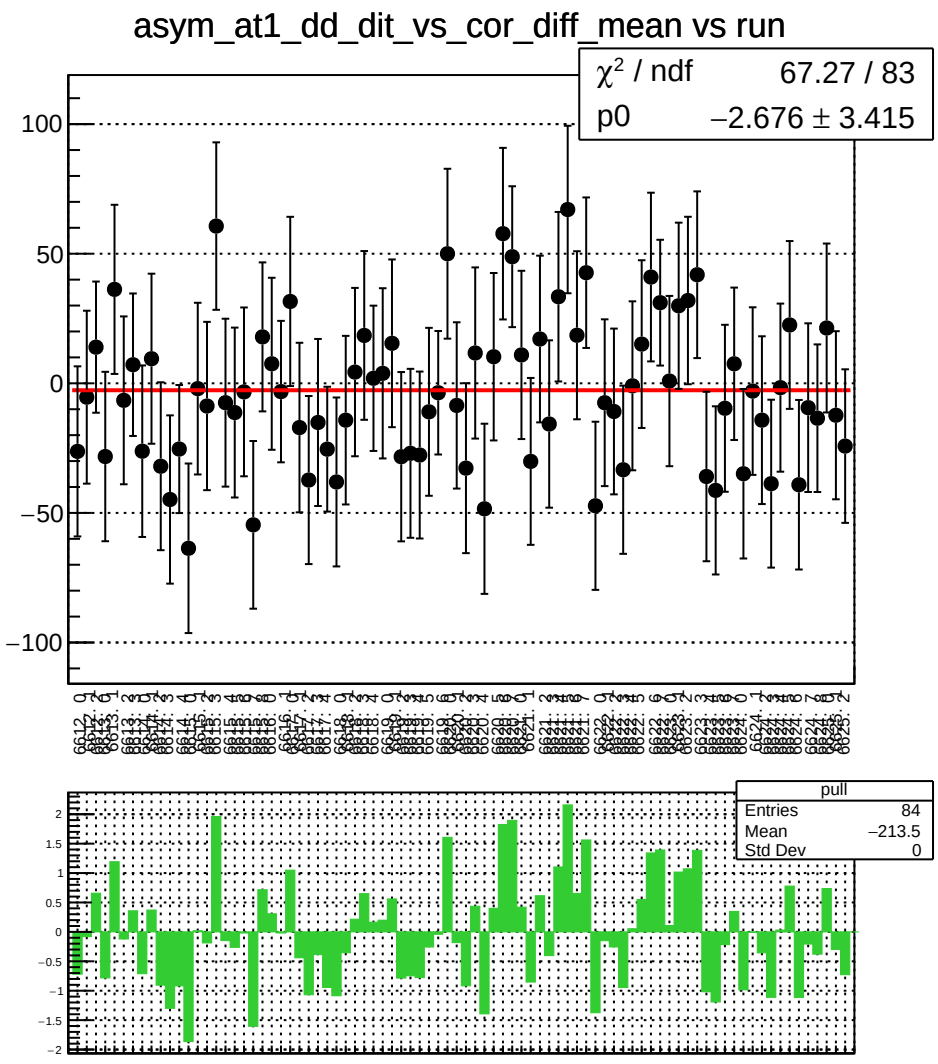

pull1D
Entries 84
Mean 0.008822
Std Dev 0.8447
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

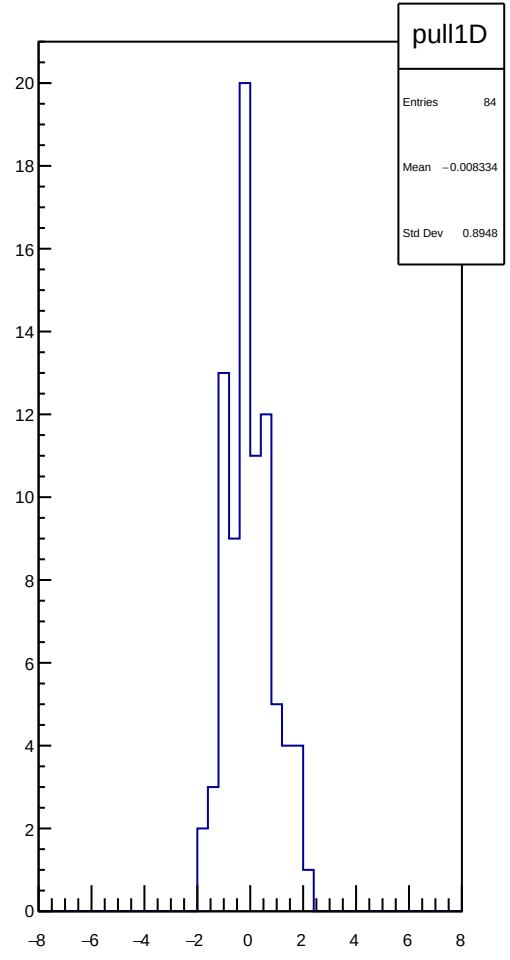

asym_at1_dd_rms vs run
χ^2 / ndf 366.9 / 83
p0 2103 ± 1.646
2240
2220
2200
2180
2160
2140
2120
2100
2080
2060
2040
2020

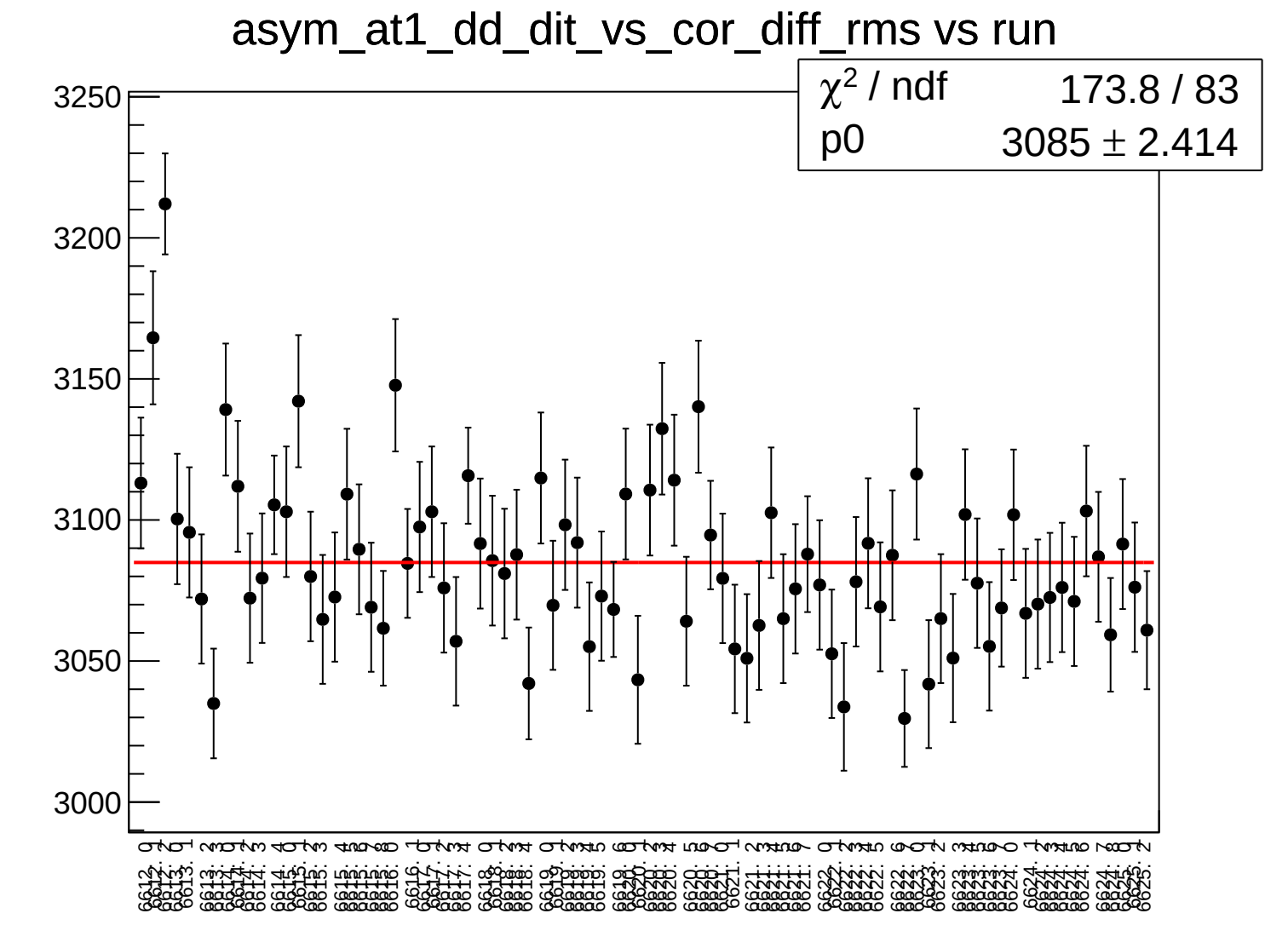

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 64.65 / 83
p0 −1.001e−14 ± 1.625e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 11.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

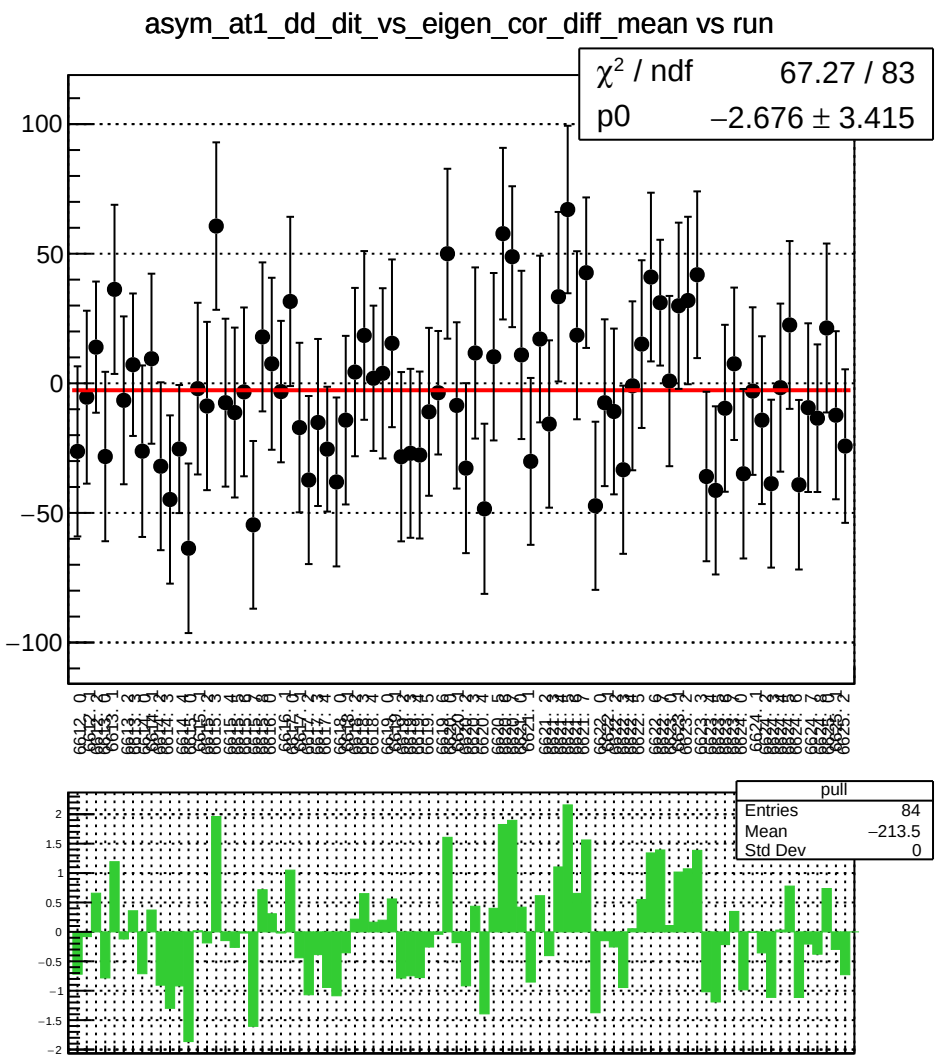

pull1D
Entries 84
Mean 0.1133
Std Dev 0.8699
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

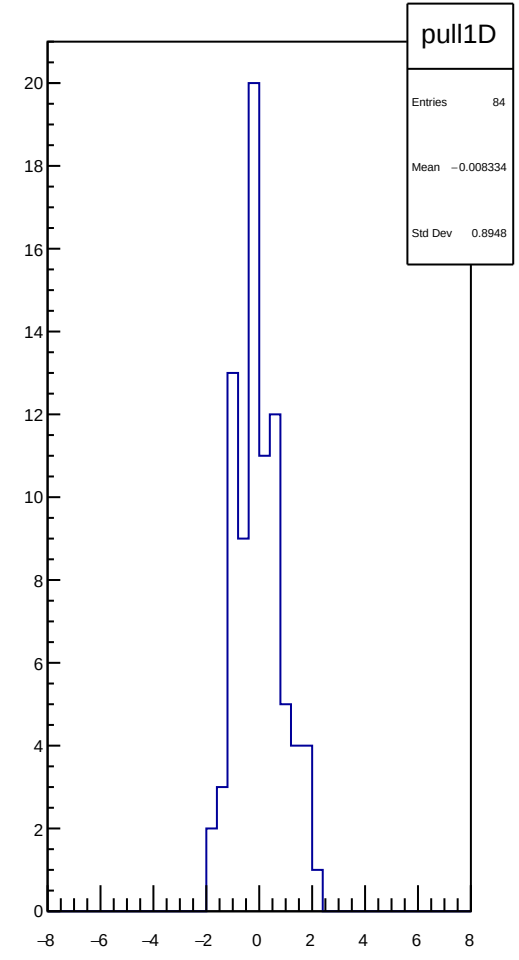

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.182e+06 / 83
p0 7.708e−12 ± 1.149e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

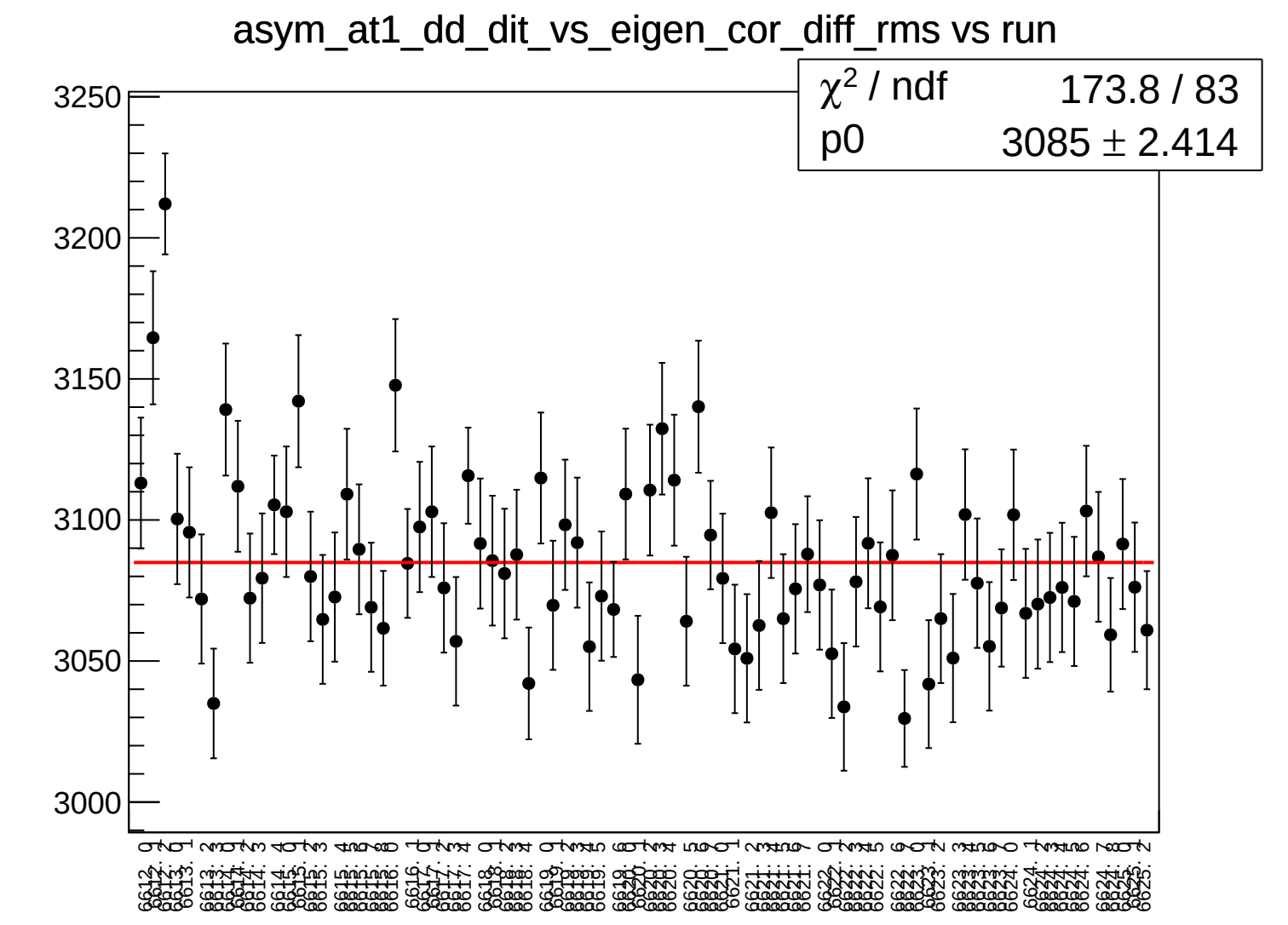

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.27 / 83
p0 −2.676 ± 3.415
pull
Entries 84
Mean −213.5
Std Dev 0

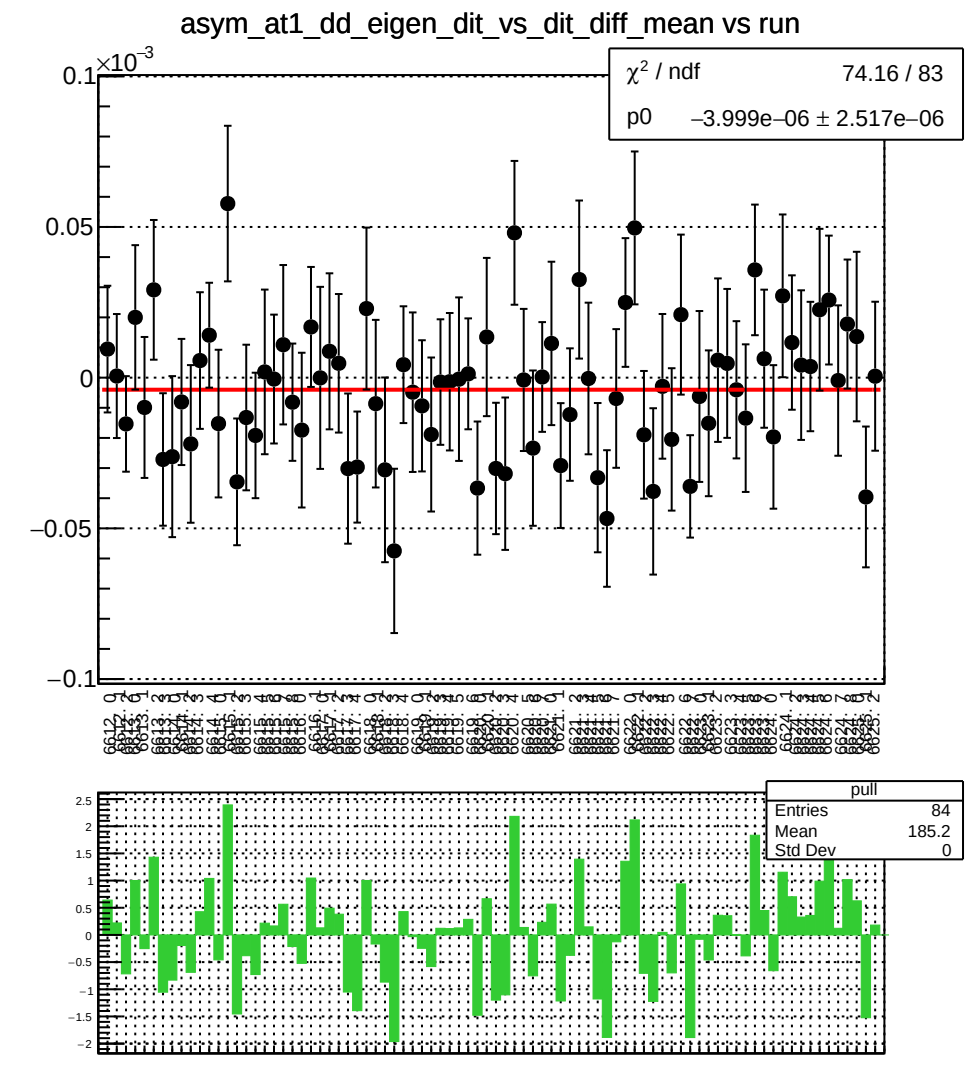

pull1D
Entries 84
Mean −0.008334
Std Dev 0.8948

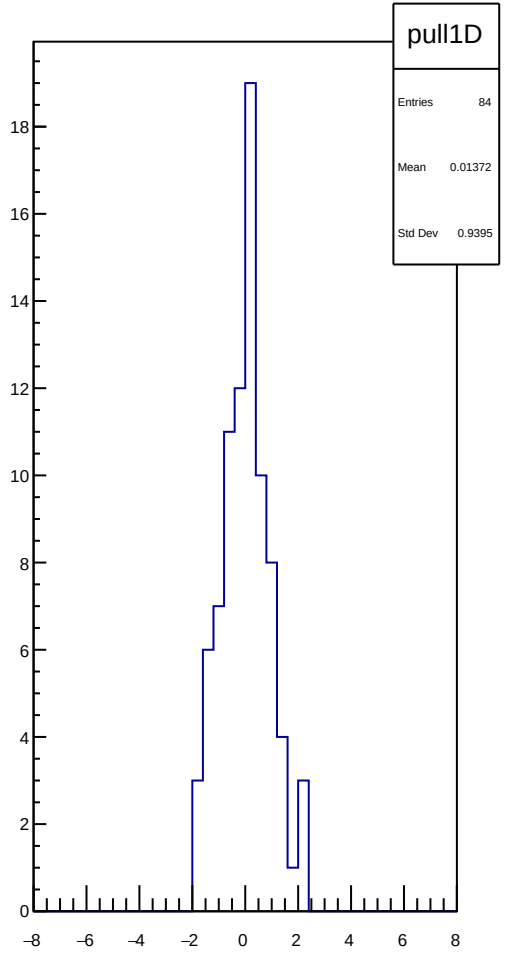

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 173.8 / 83
p0 3085 ± 2.414
3250
3200
3150
3100
3050
3000

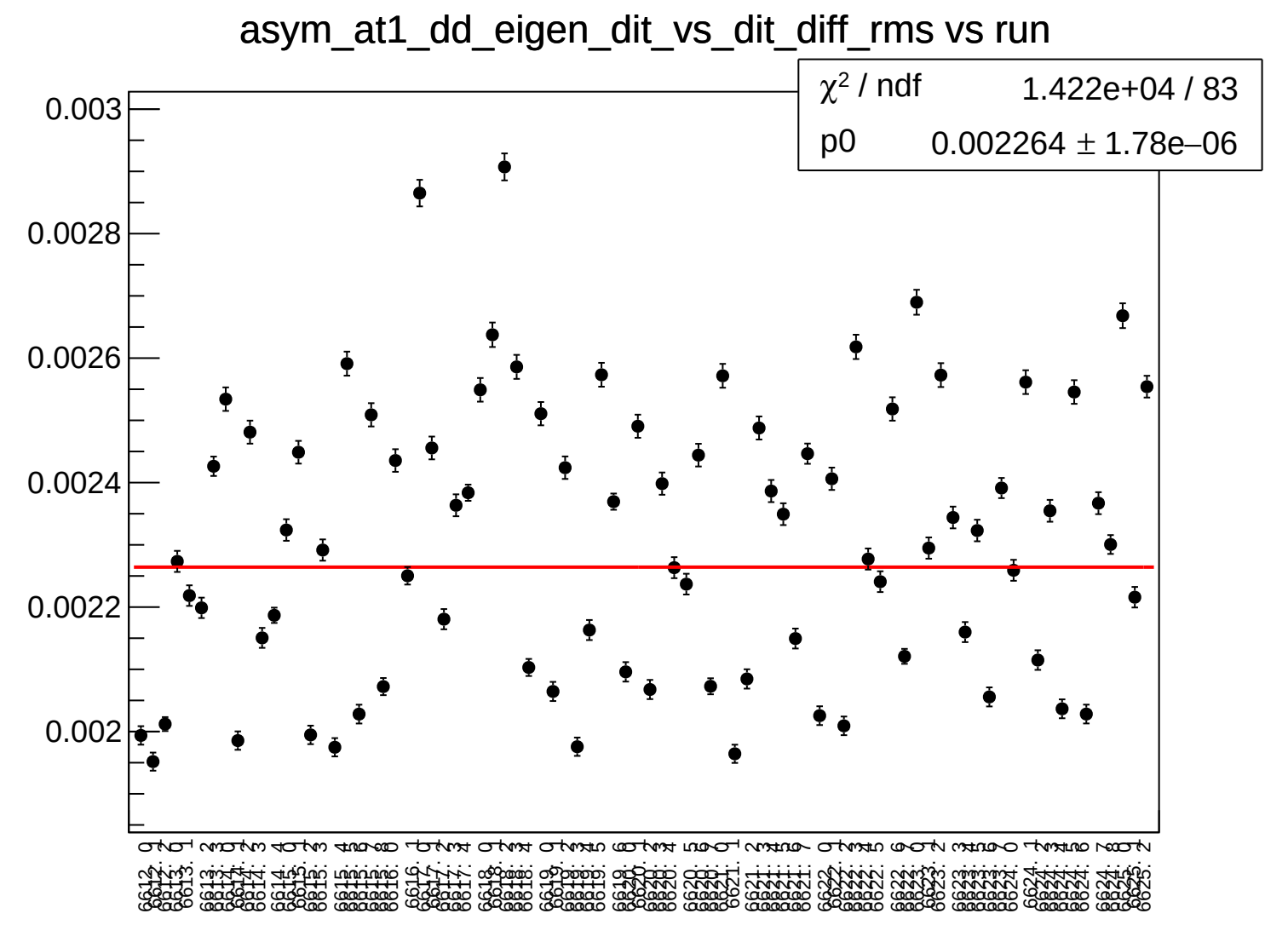

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.27 / 83
p0 −2.676 ± 3.415
100
50
0
−50
−100
pull
Entries 84
Mean −213.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

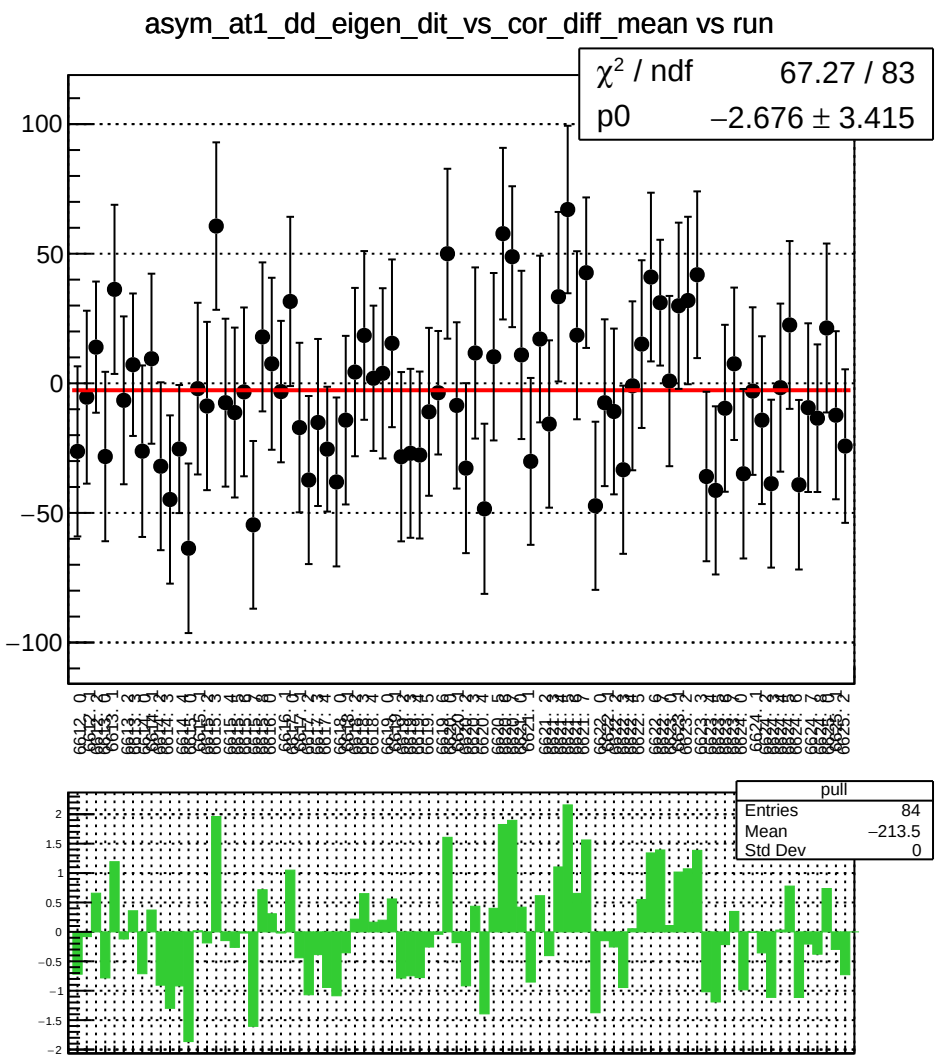

pull1D
Entries 84
Mean −0.008334
Std Dev 0.8948
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

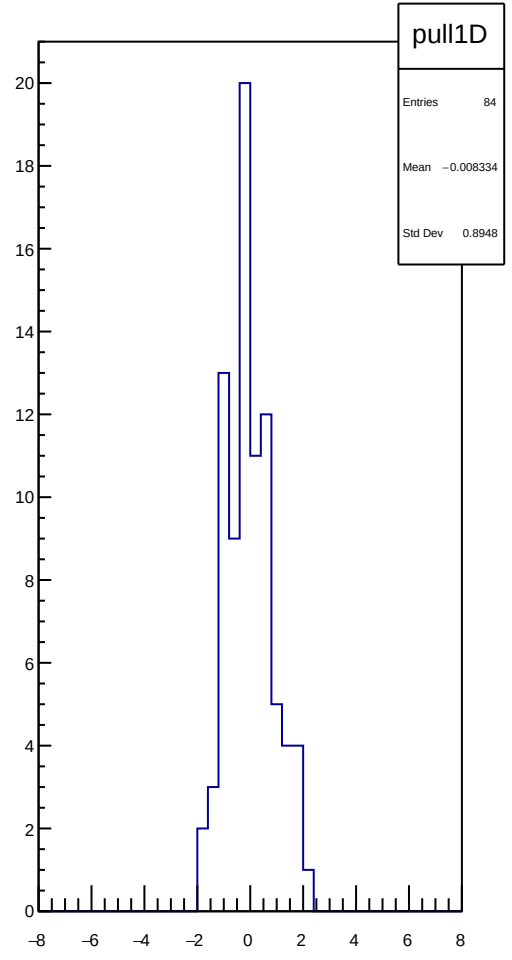

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 173.8 / 83
p0 3085 ± 2.414
3250
3200
3150
3100
3050
3000

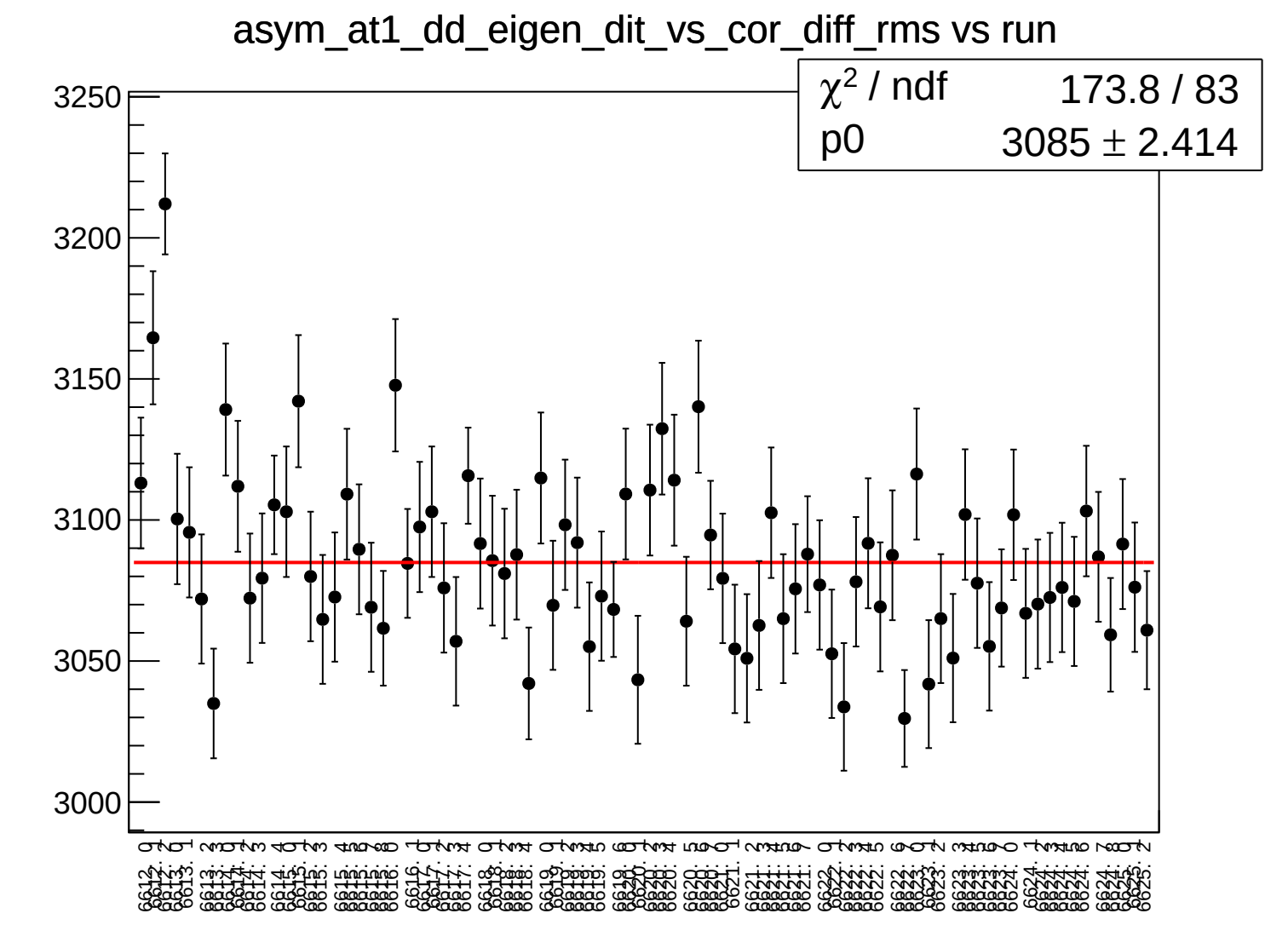

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 74.16 / 83
p0 −3.999e−06 ± 2.517e−06
×10⁻³
pull
Entries 84
Mean 185.2
Std Dev 0

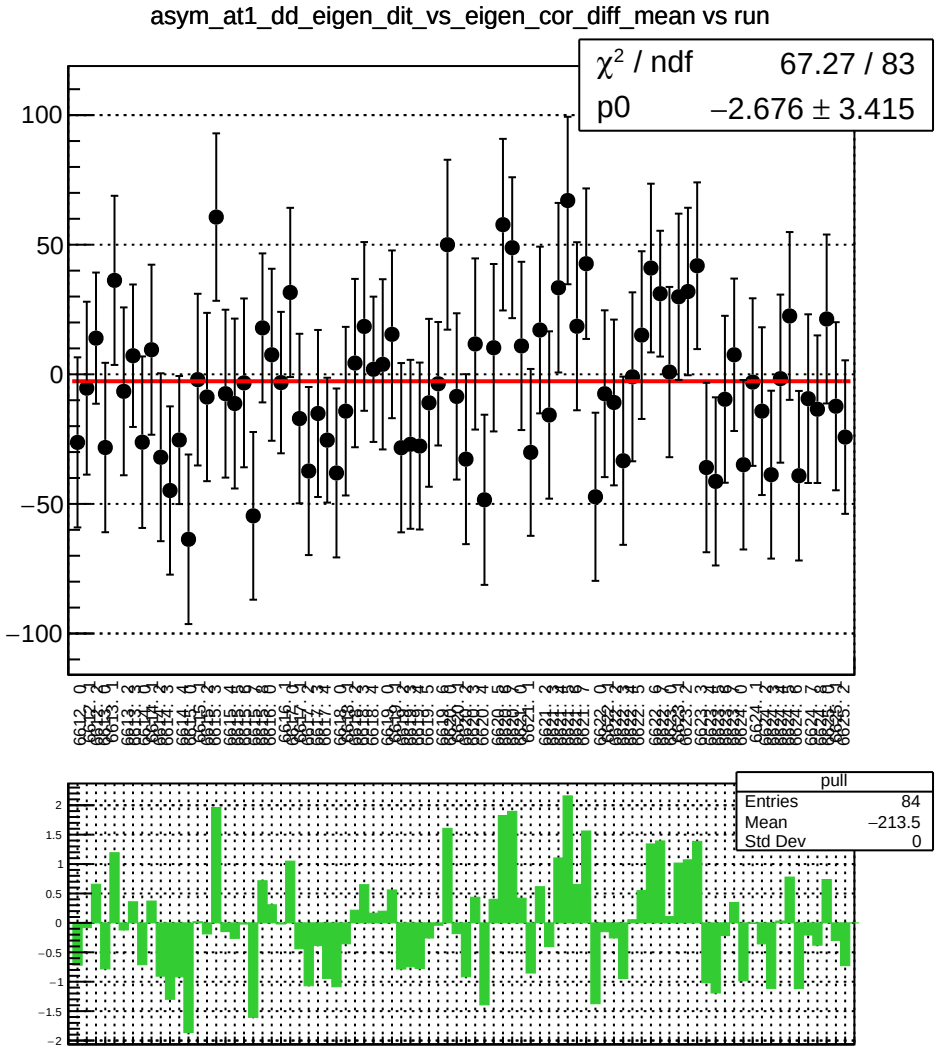

pull1D
Entries 84
Mean 0.01372
Std Dev 0.9395

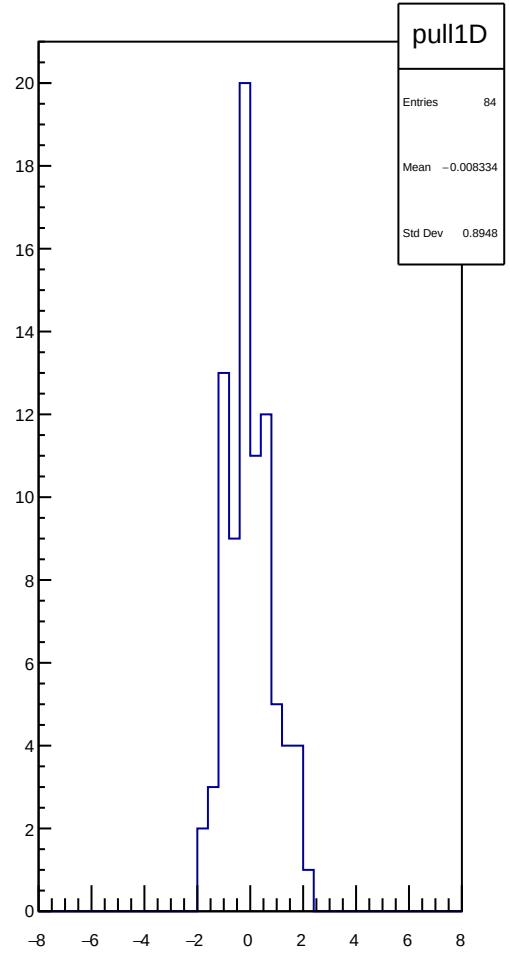

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.422e+04 / 83
p0 0.002264 ± 1.78e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

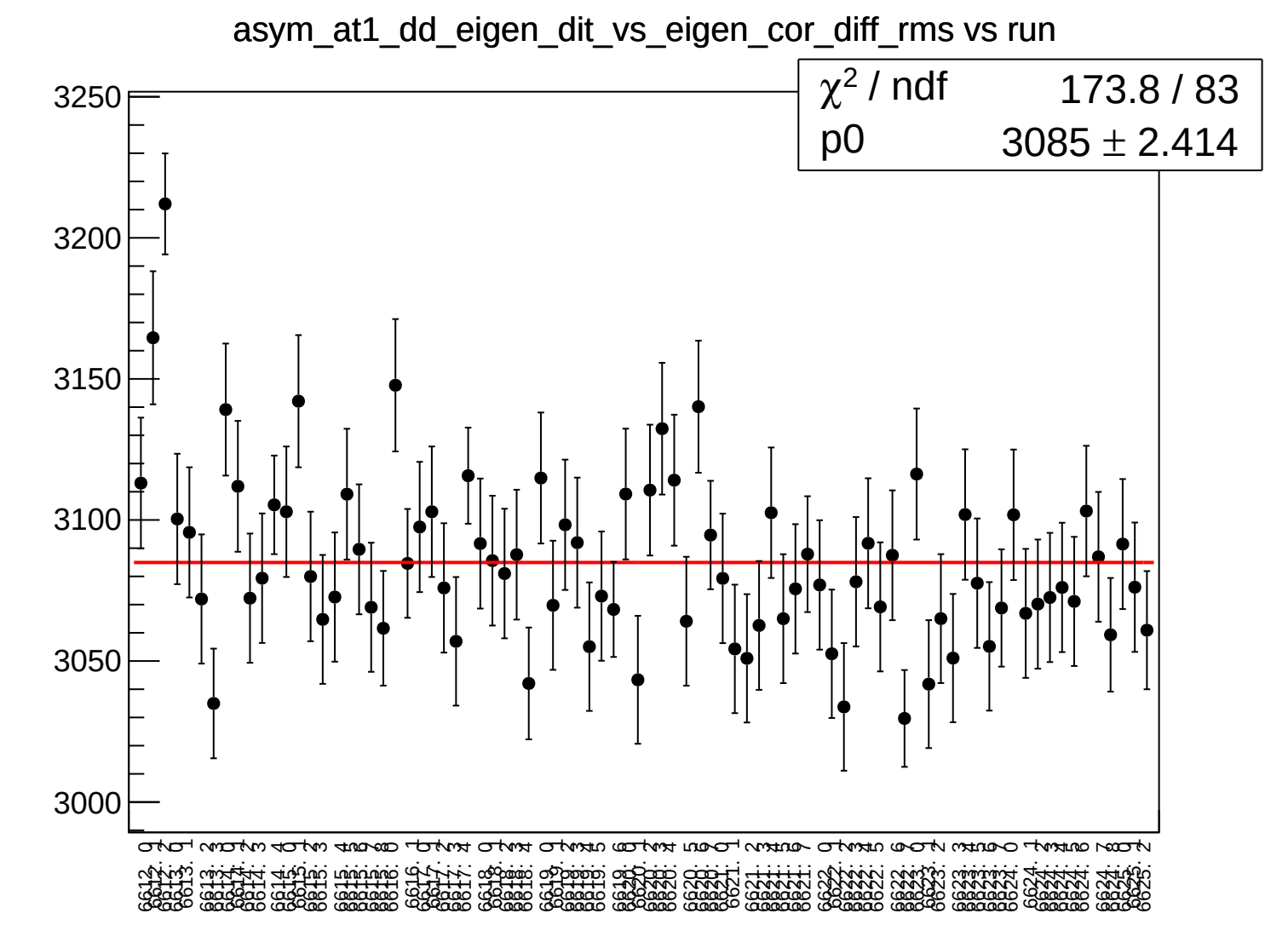

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.27 / 83
p0 −2.676 ± 3.415
pull
Entries 84
Mean −213.5
Std Dev 0

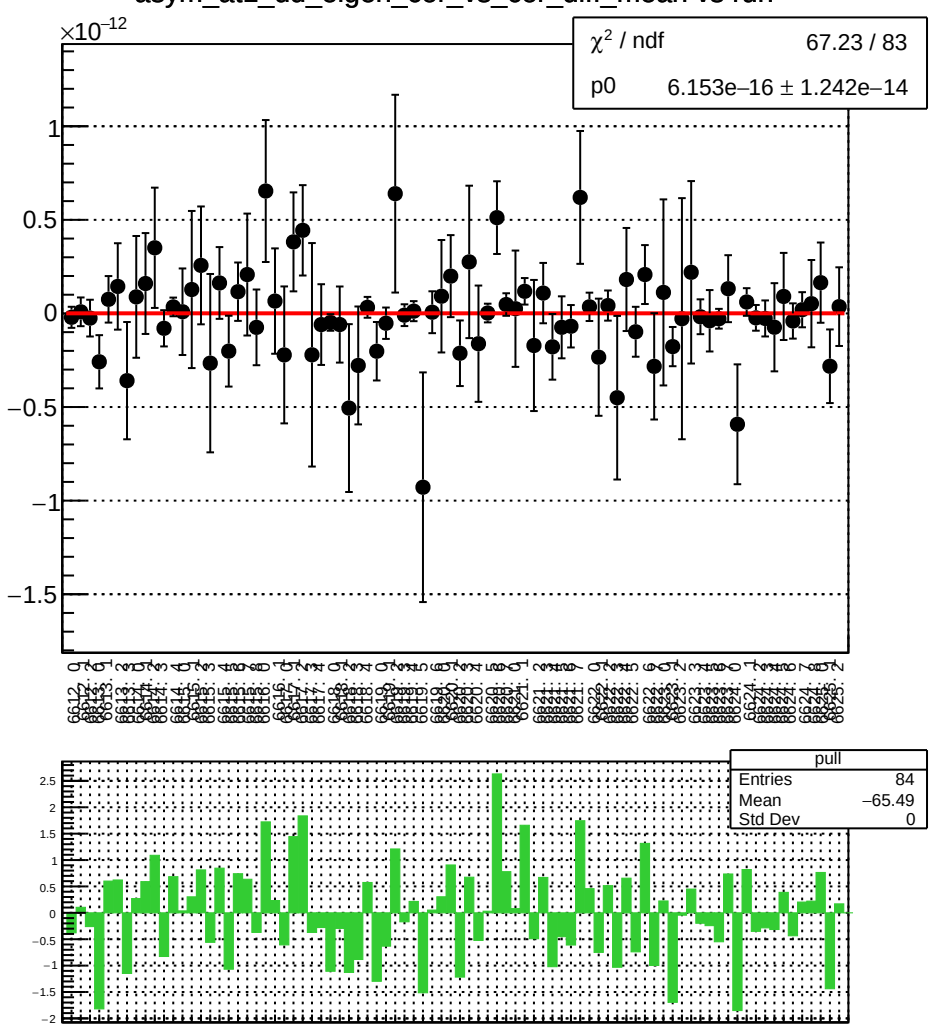

pull1D
Entries 84
Mean −0.008334
Std Dev 0.8948

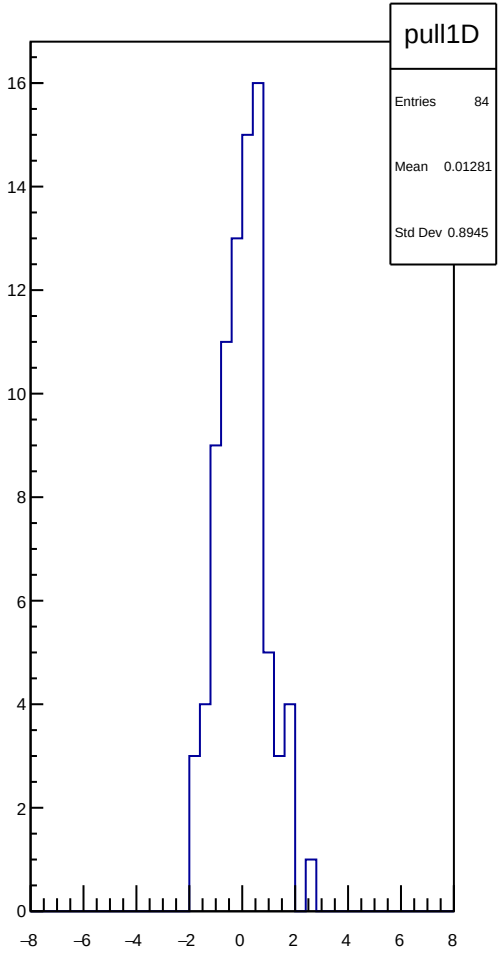

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 173.8 / 83
p0 3085 ± 2.414
3250
3200
3150
3100
3050
3000

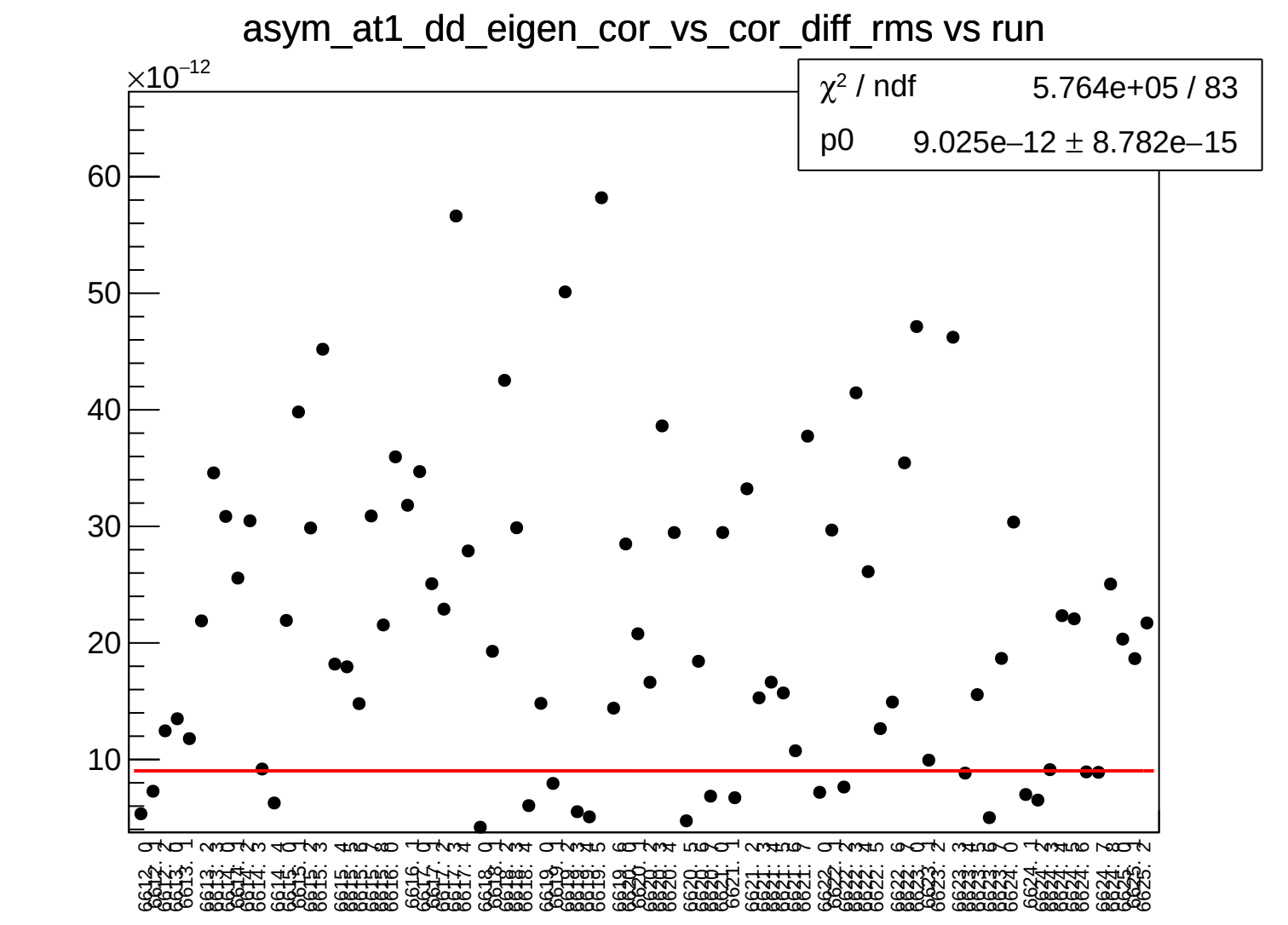

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.27 / 83
p0 −2.676 ± 3.415
pull
Entries 84
Mean −213.5
Std Dev 0

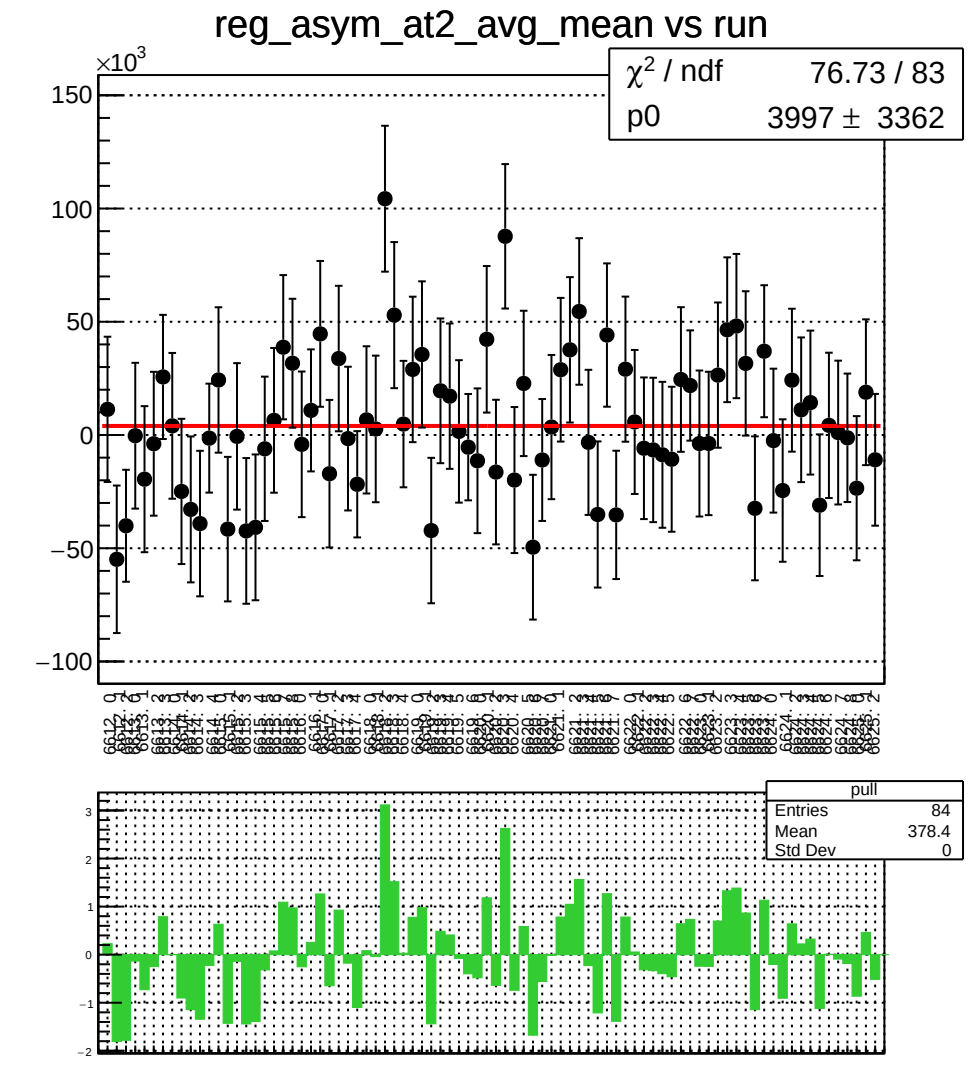

pull1D
Entries 84
Mean −0.008334
Std Dev 0.8948

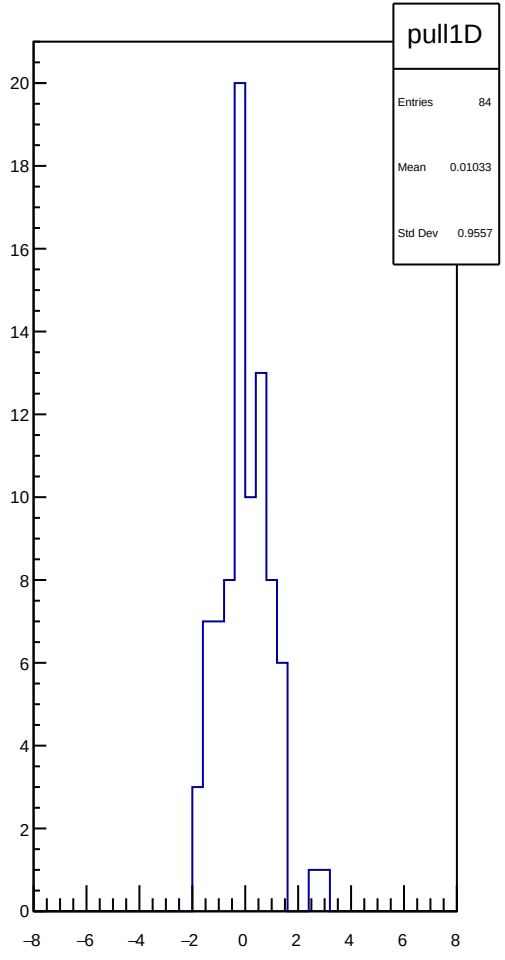

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 173.8 / 83
p0 3085 ± 2.414
3250
3200
3150
3100
3050
3000

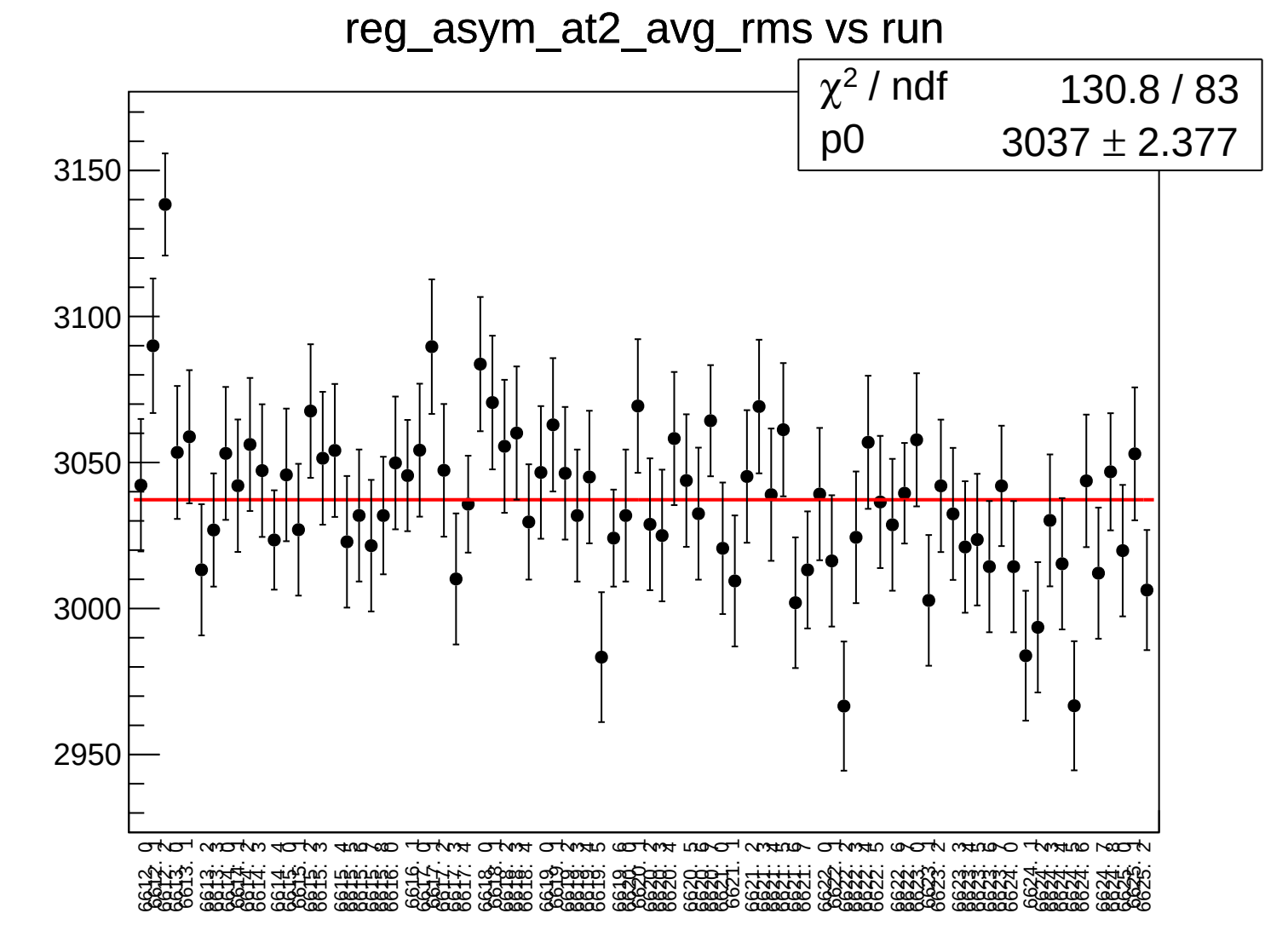

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.23 / 83
p0 6.153e−16 ± 1.242e−14
pull
Entries 84
Mean −65.49
Std Dev 0

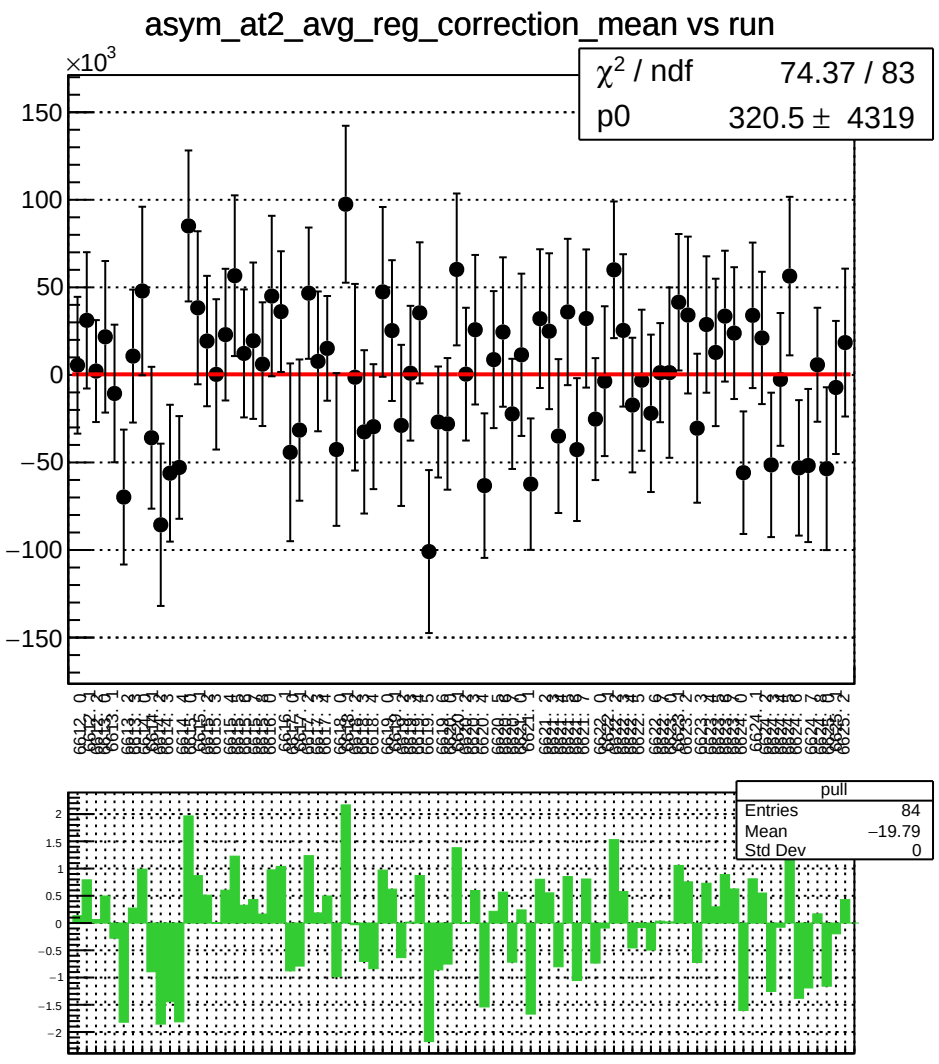

pull1D
Entries 84
Mean 0.01281
Std Dev 0.8945

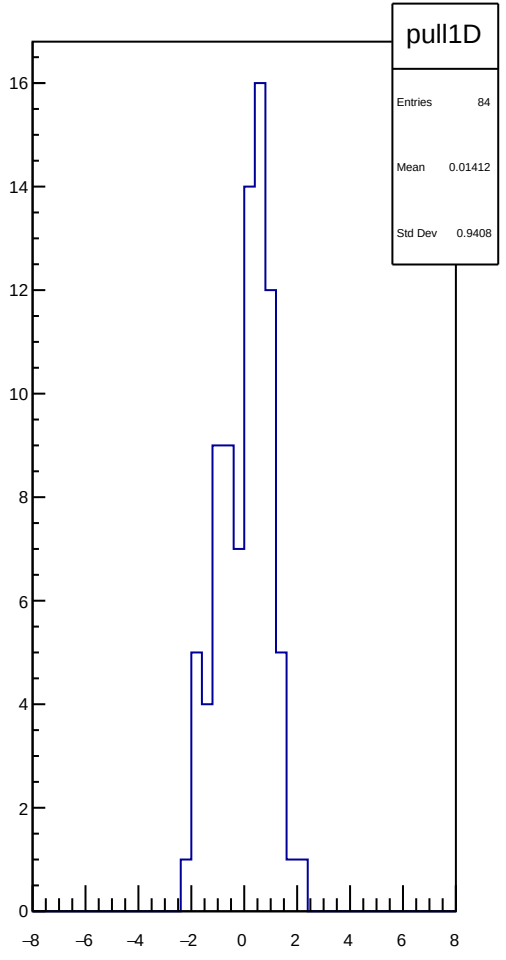

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.764e+05 / 83
p0 9.025e−12 ± 8.782e−15
60
50
40
30
20
10

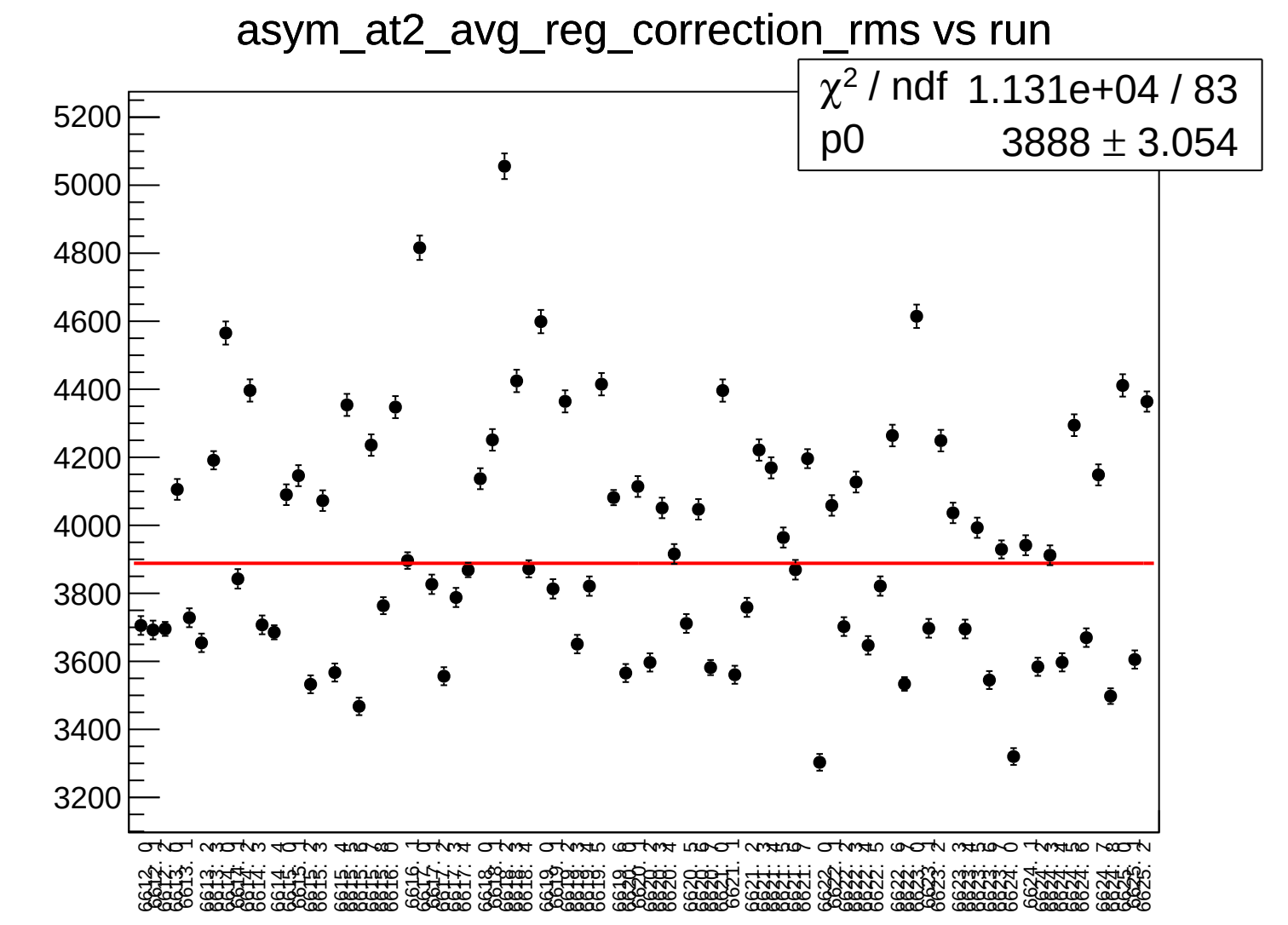

reg_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 76.73 / 83
p0 3997 ± 3362
150
100
50
0
−50
−100
pull
Entries 84
Mean 378.4
Std Dev 0
3
2
1
0
−1
−2

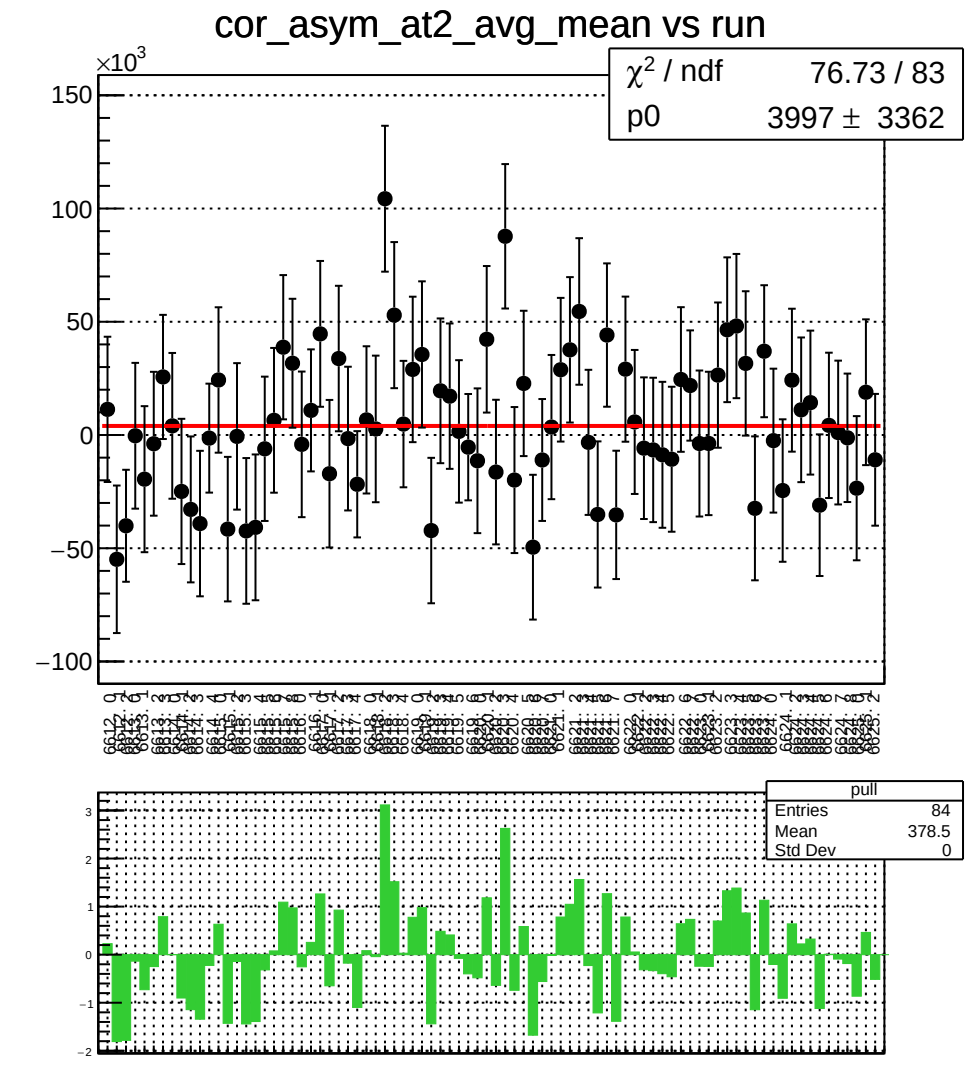

pull1D
Entries 84
Mean 0.01033
Std Dev 0.9557
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

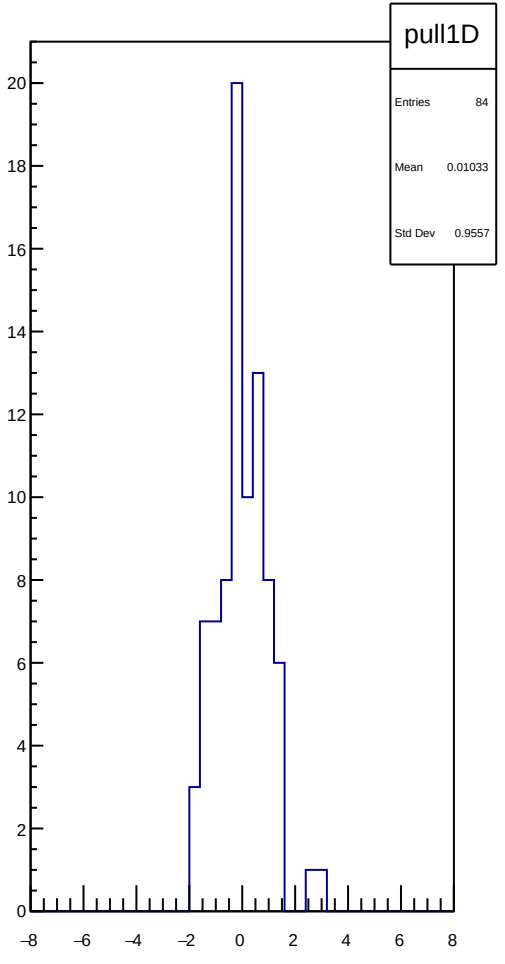

reg_asym_at2_avg_rms vs run
χ² / ndf 130.8 / 83
p0 3037 ± 2.377
3150
3100
3050
3000
2950

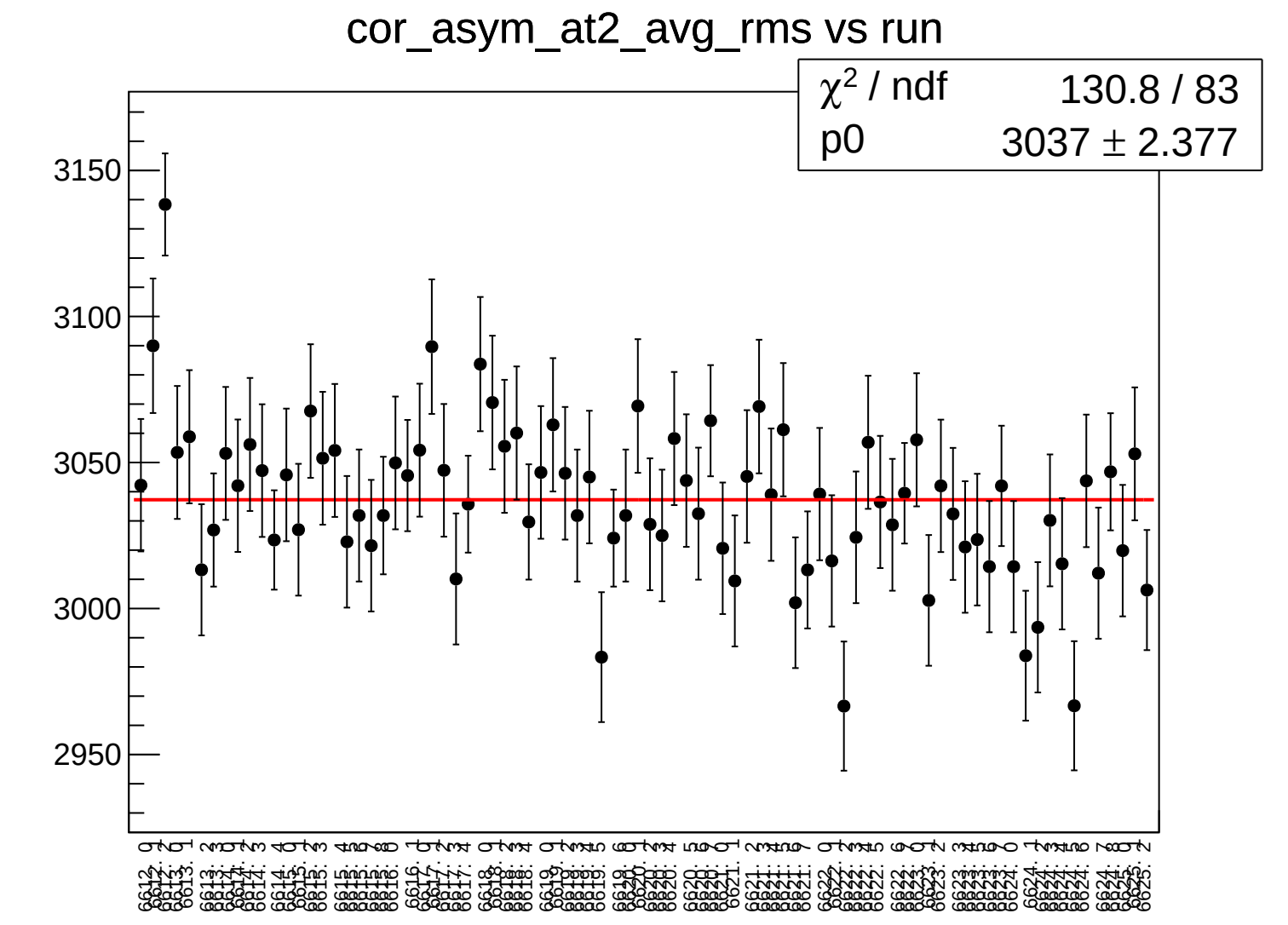

asym_at2_avg_reg_correction_mean vs run
χ² / ndf 74.37 / 83
p0 320.5 ± 4319
×10³
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −19.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

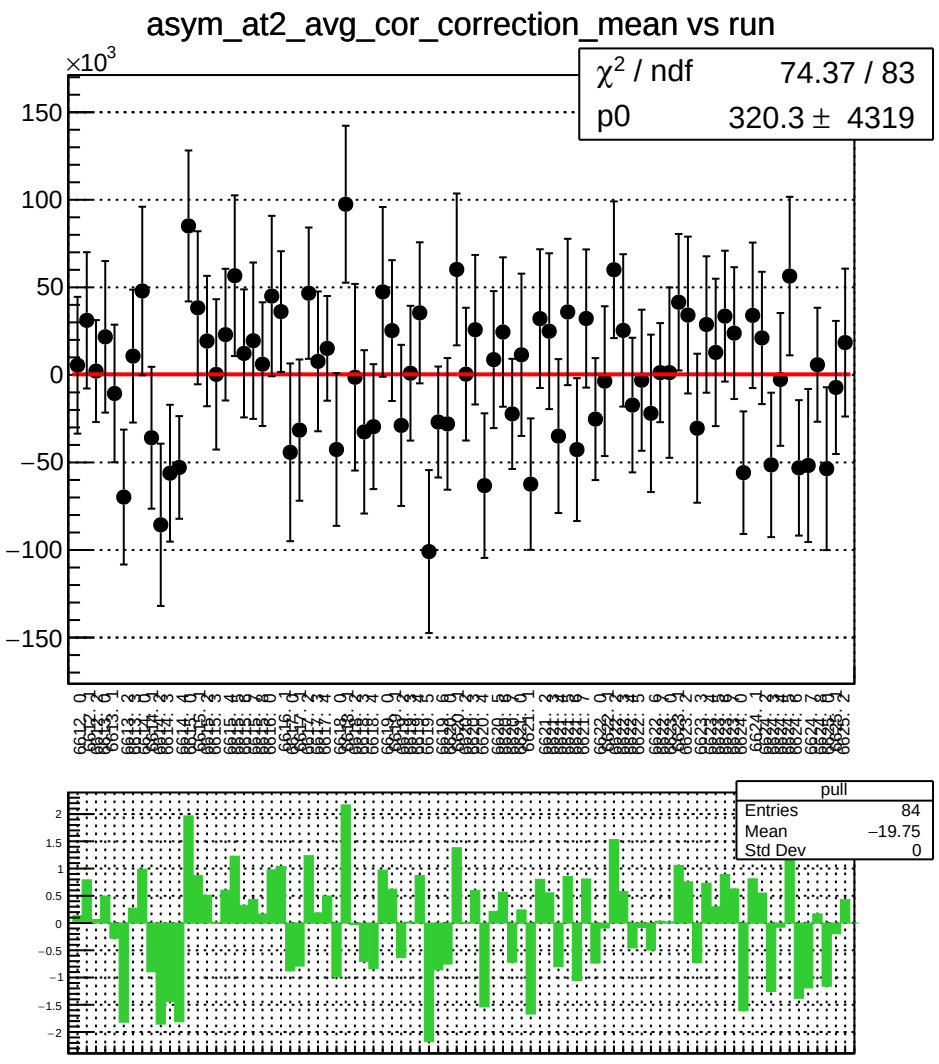

pull1D
Entries 84
Mean 0.01412
Std Dev 0.9408
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

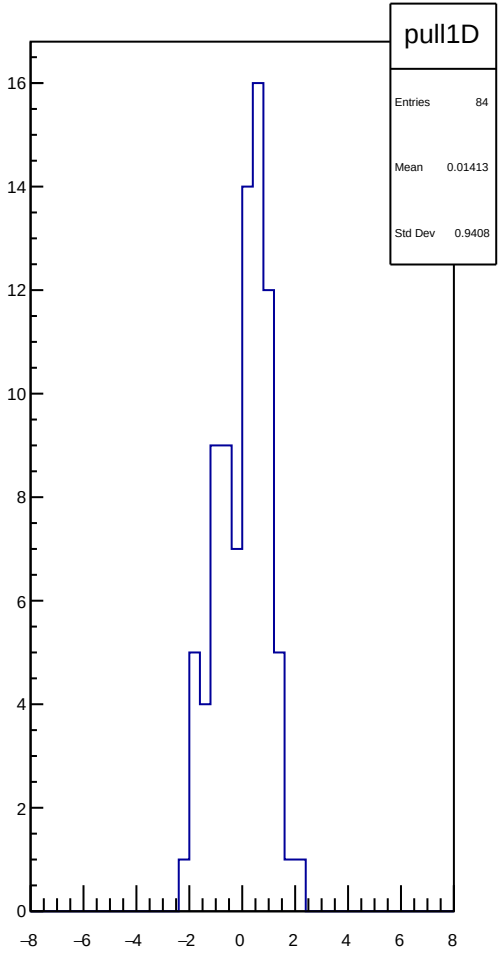

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 1.131e+04 / 83
p0 3888 ± 3.054
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

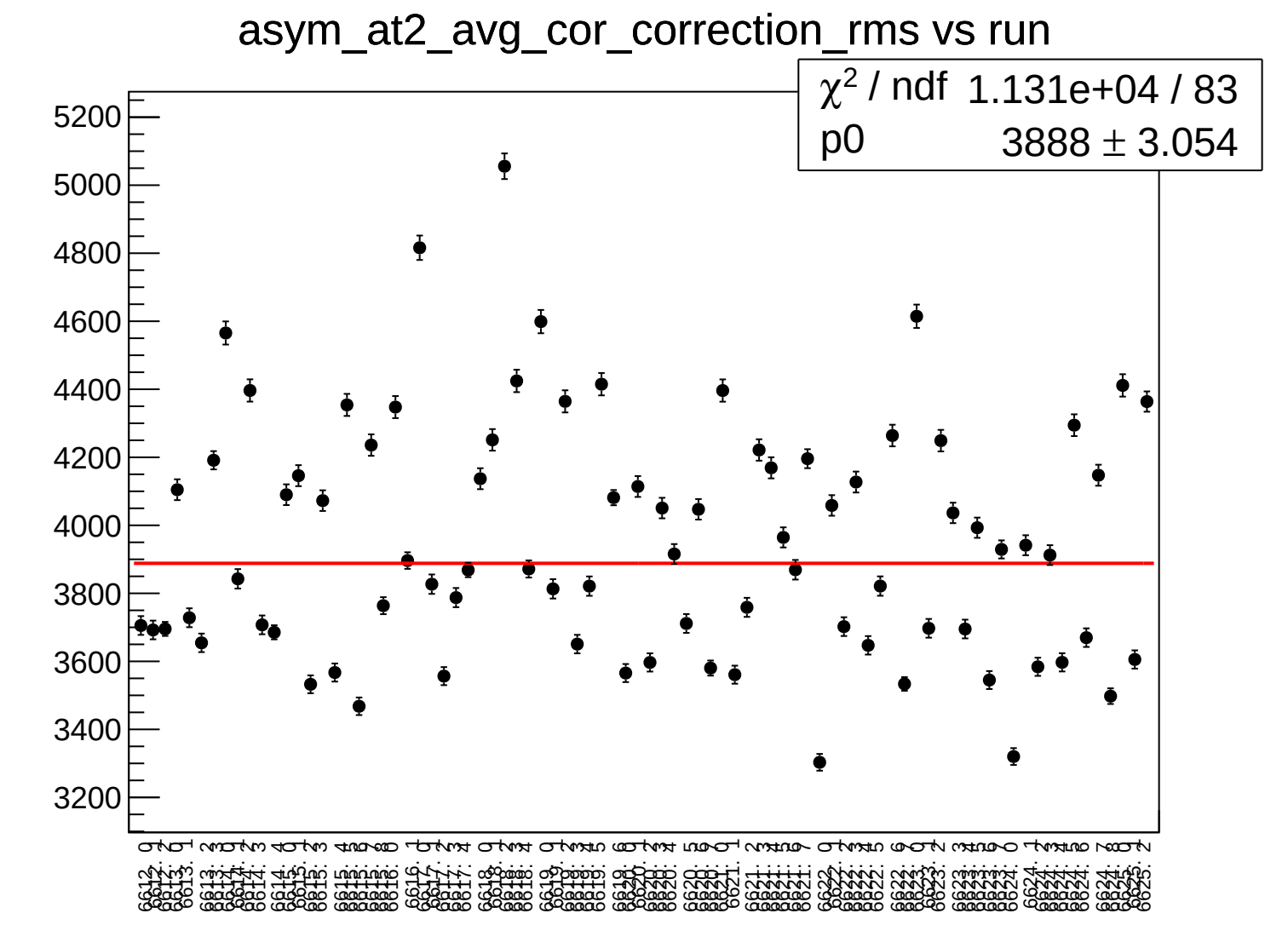

cor_asym_at2_avg_mean vs run
×10^3
χ² / ndf 76.73 / 83
p0 3997 ± 3362
150
100
50
0
−50
−100
pull
Entries 84
Mean 378.5
Std Dev 0
3
2
1
0
−1
−2

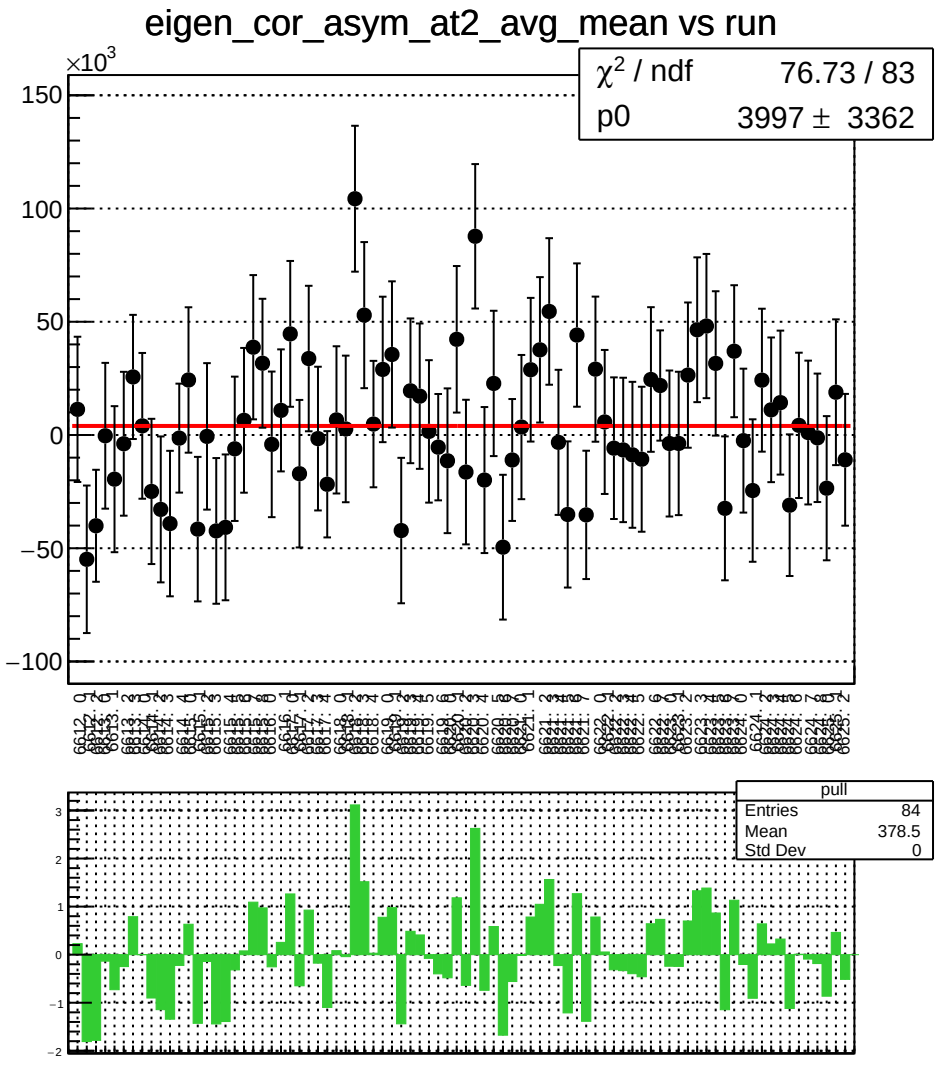

pull1D
Entries 84
Mean 0.01033
Std Dev 0.9557
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

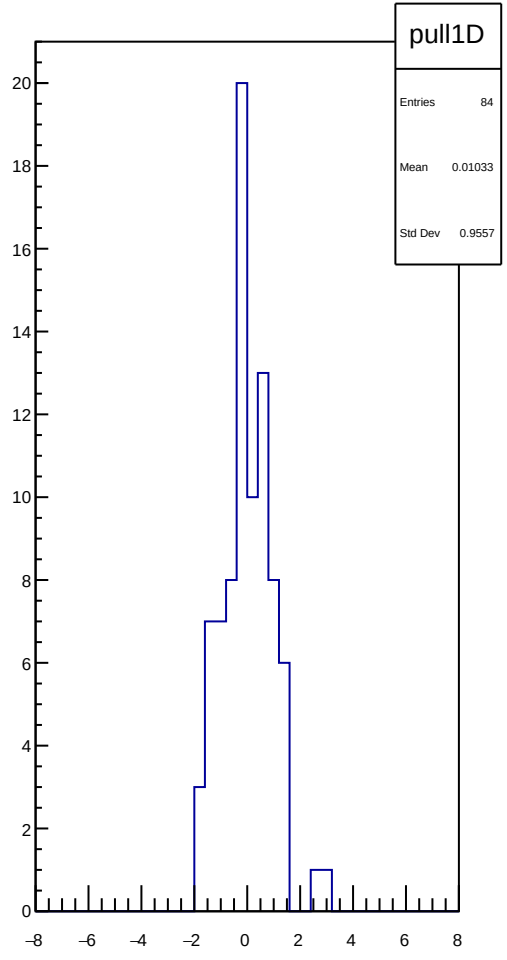

cor_asym_at2_avg_rms vs run
χ² / ndf 130.8 / 83
p0 3037 ± 2.377
3150
3100
3050
3000
2950

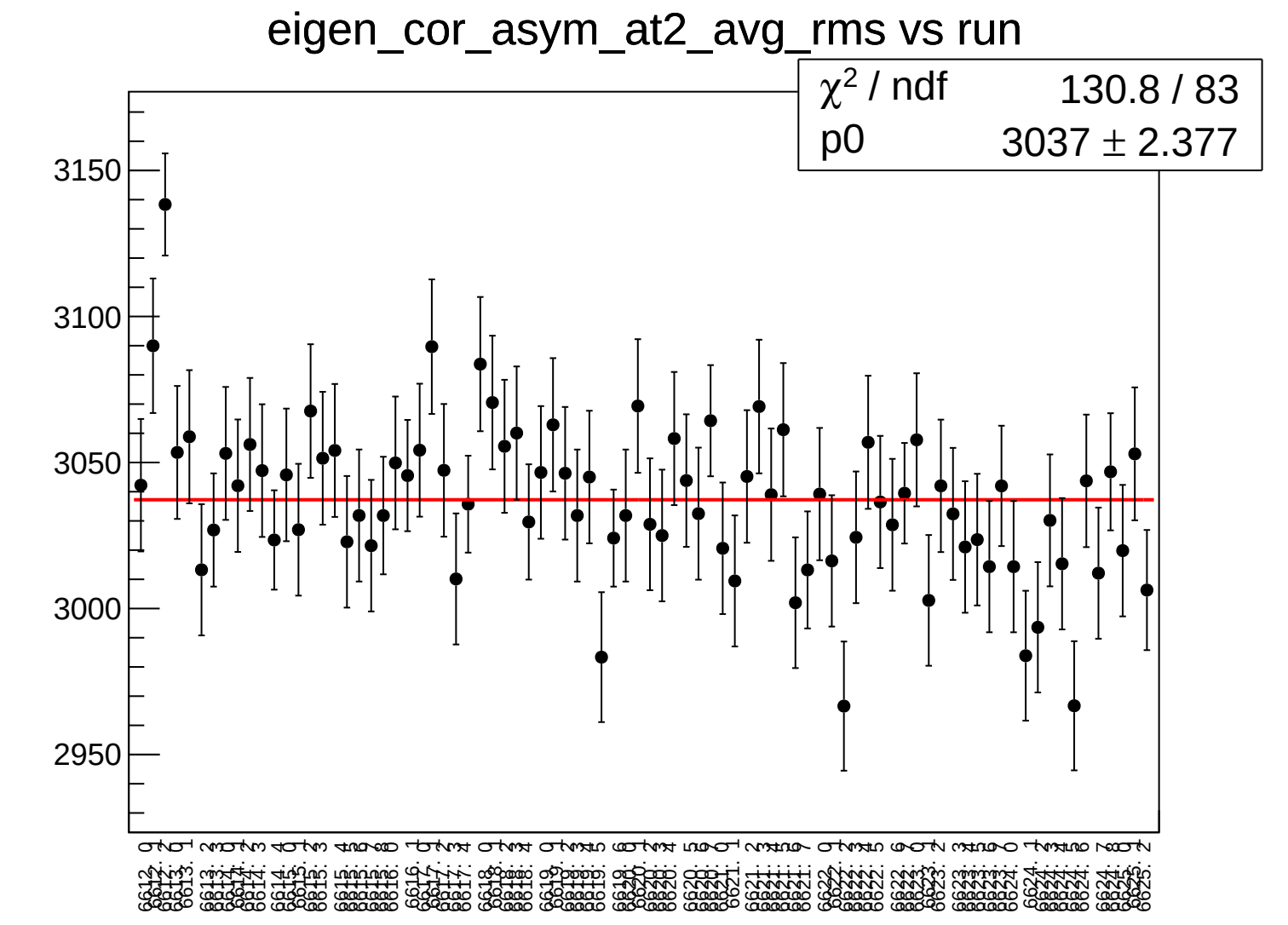

asym_at2_avg_cor_correction_mean vs run
χ² / ndf 74.37 / 83
p0 320.3 ± 4319
×10³
pull
Entries 84
Mean −19.75
Std Dev 0

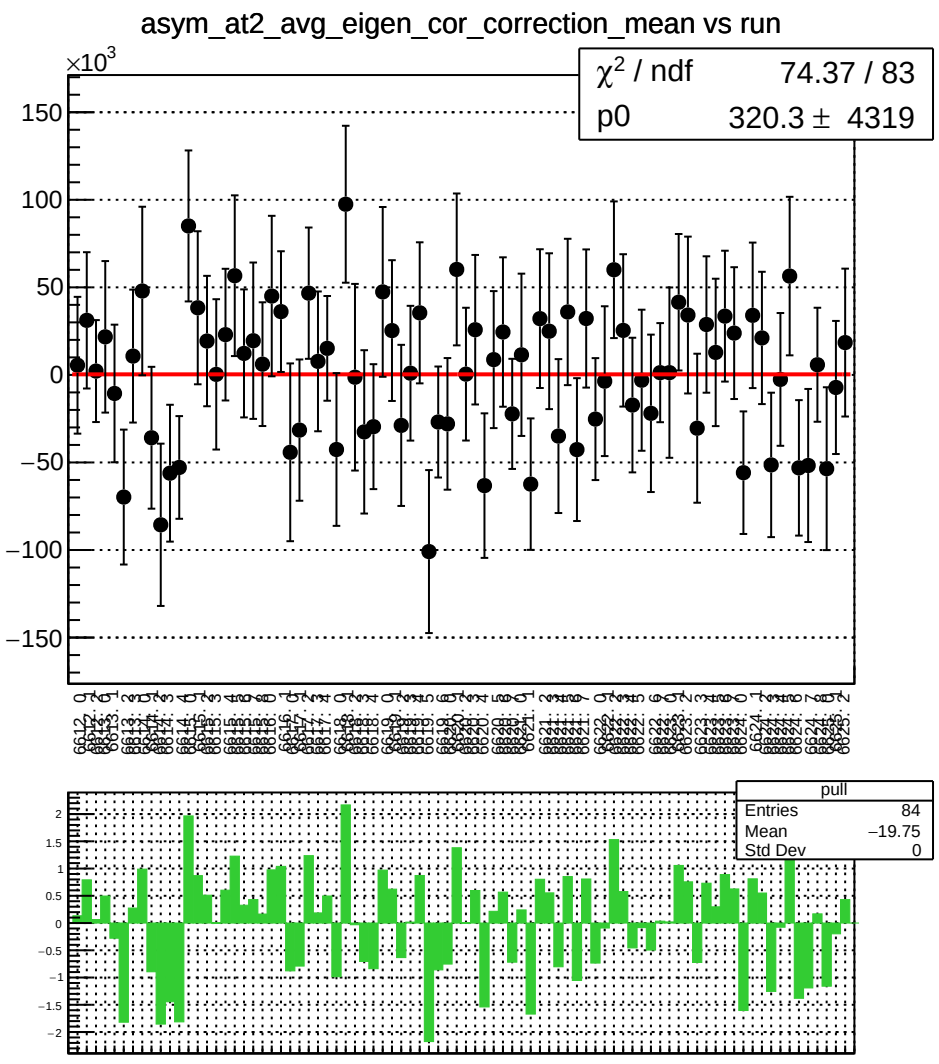

pull1D
Entries 84
Mean 0.01413
Std Dev 0.9408

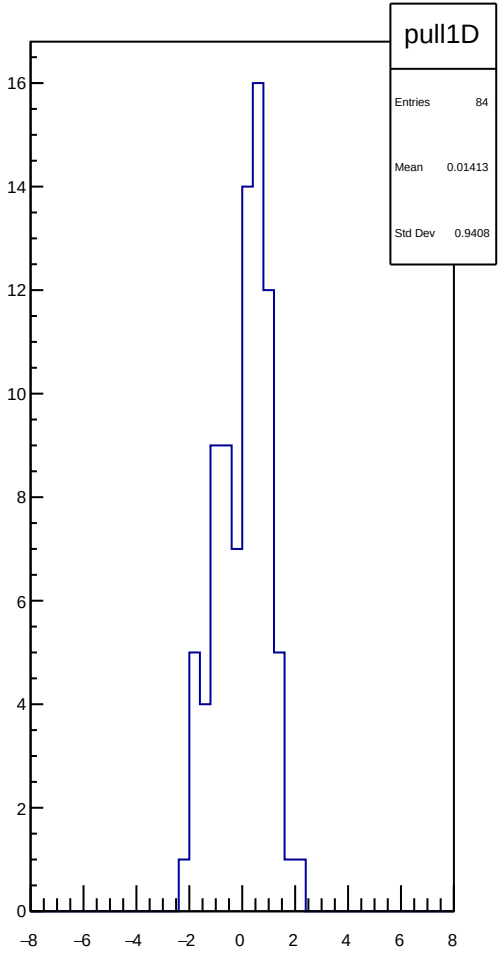

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 1.131e+04 / 83
p0 3888 ± 3.054
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

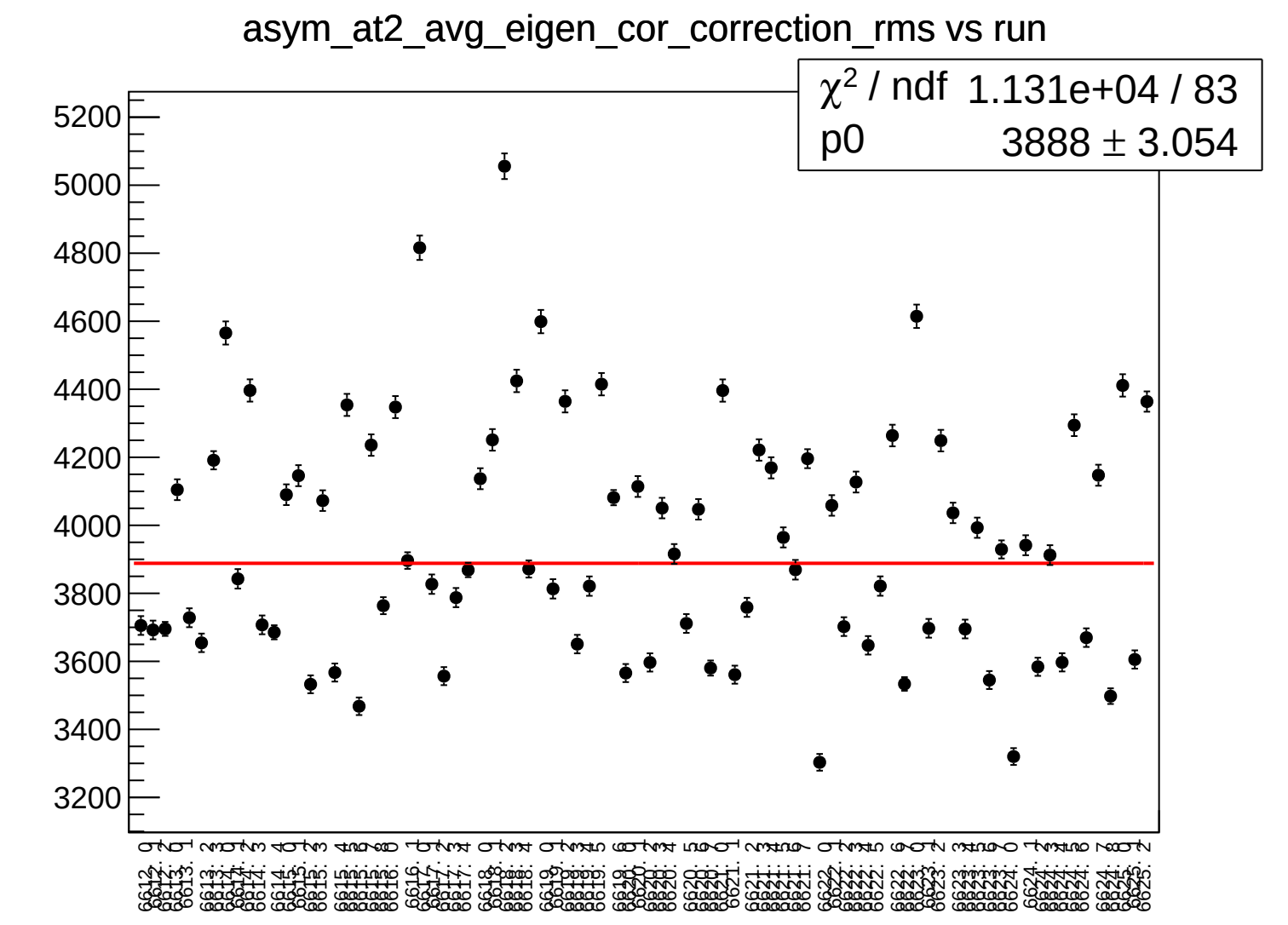

eigen_cor_asym_at2_avg_mean vs run
×10^3
χ² / ndf 76.73 / 83
p0 3997 ± 3362
150
100
50
0
−50
−100
pull
Entries 84
Mean 378.5
Std Dev 0
3
2
1
0
−1
−2

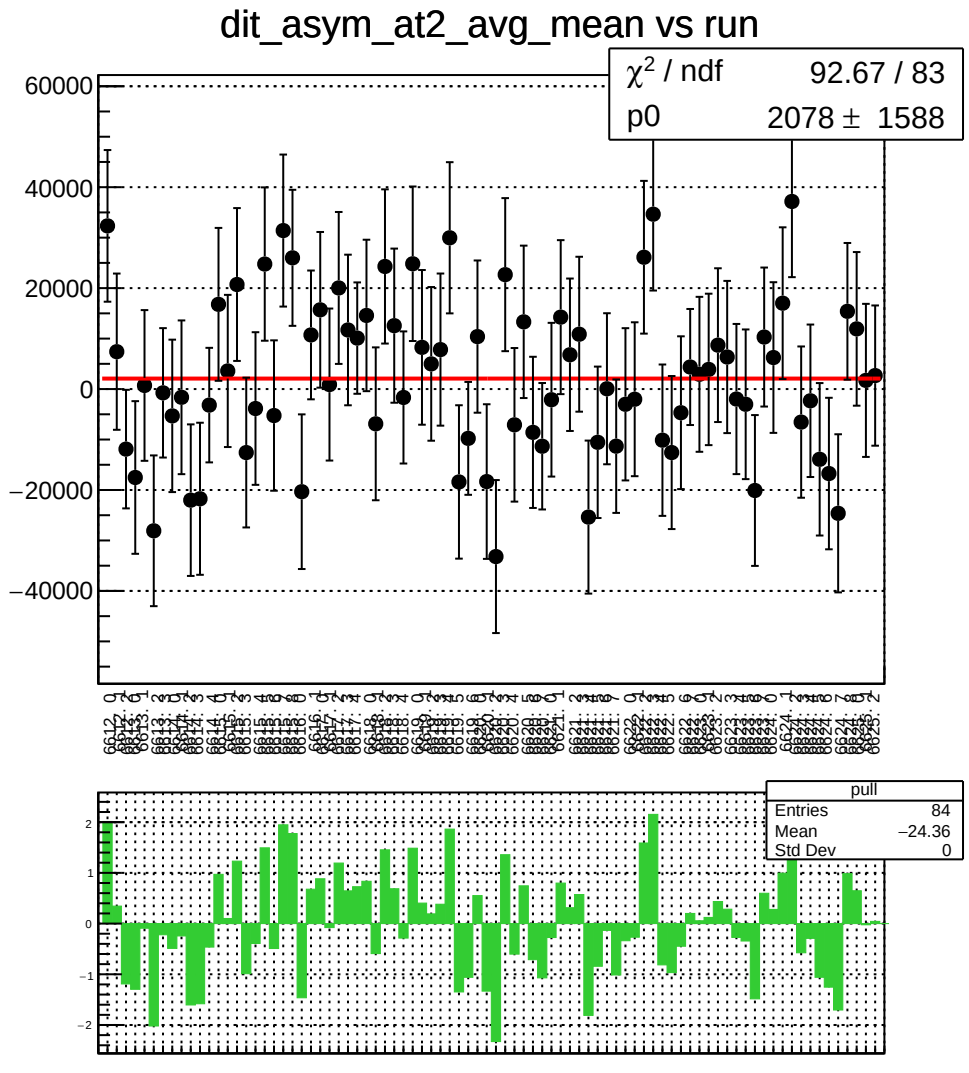

pull1D
Entries 84
Mean 0.01033
Std Dev 0.9557
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

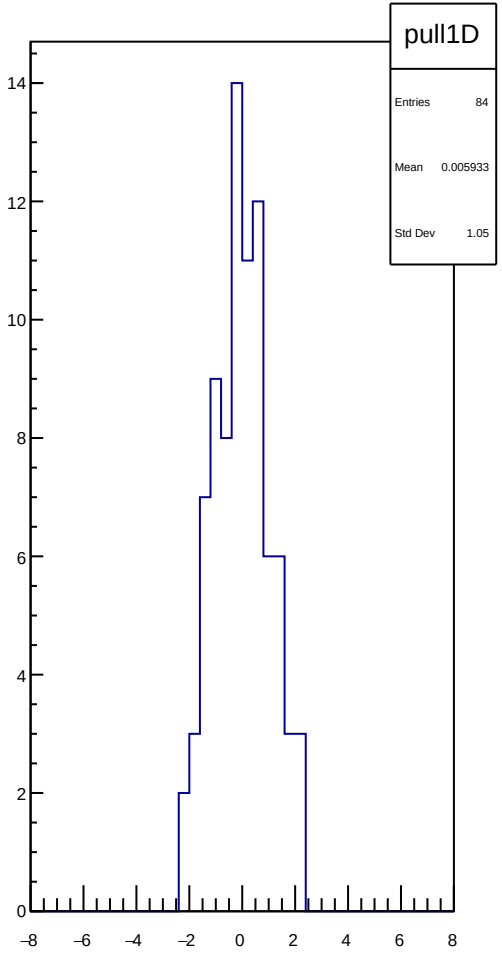

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 130.8 / 83
p0 3037 ± 2.377
3150
3100
3050
3000
2950

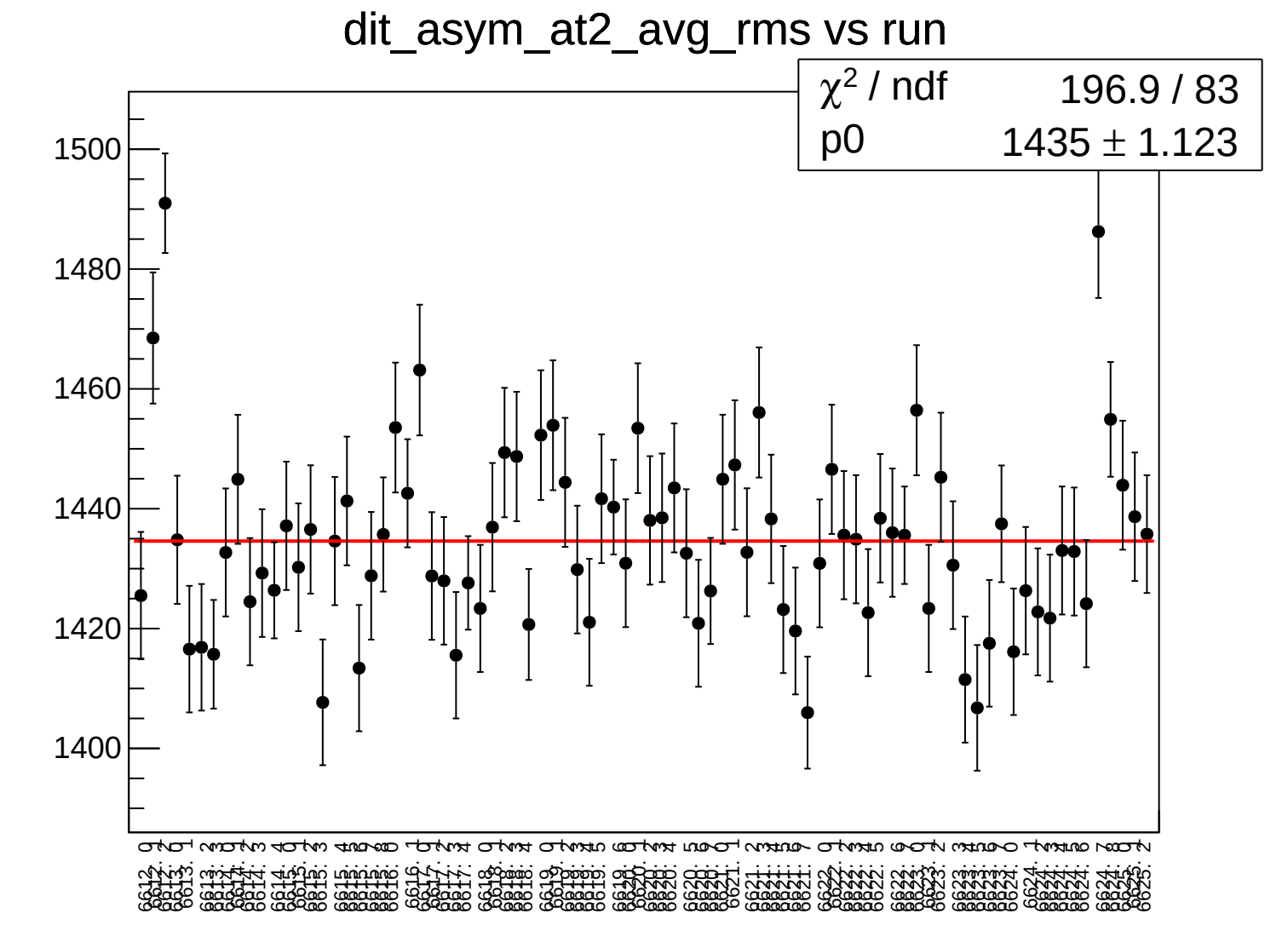

asym_at2_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.37 / 83
p0 320.3 ± 4319
×10³
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −19.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

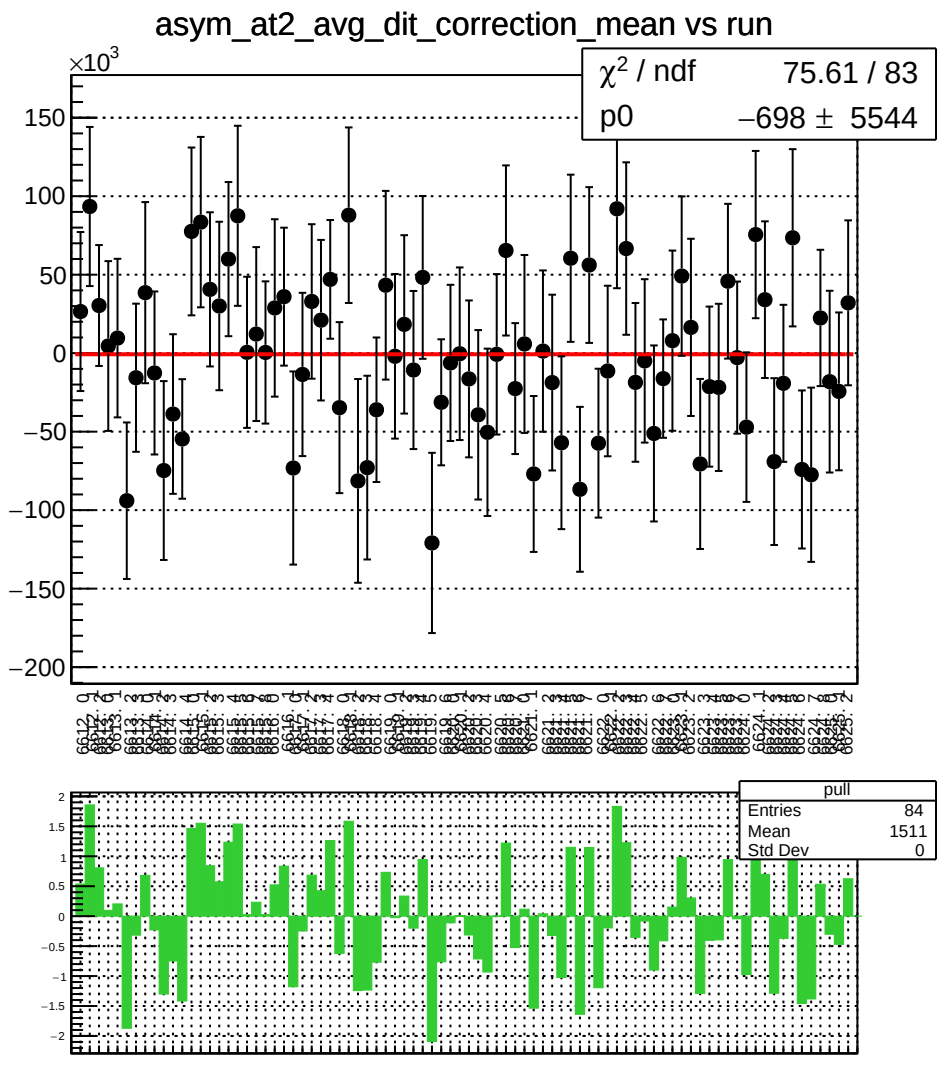

pull1D
Entries 84
Mean 0.01413
Std Dev 0.9408
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

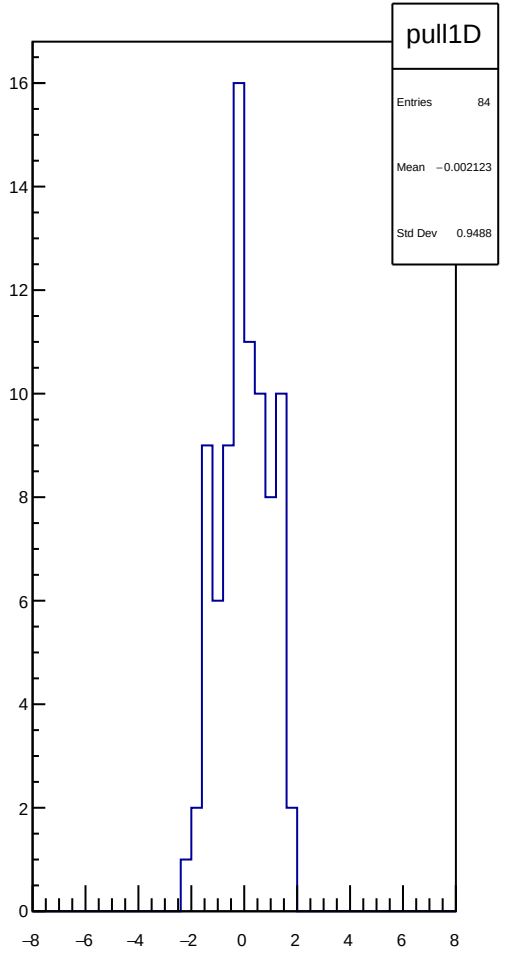

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.131e+04 / 83
p0 3888 ± 3.054
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

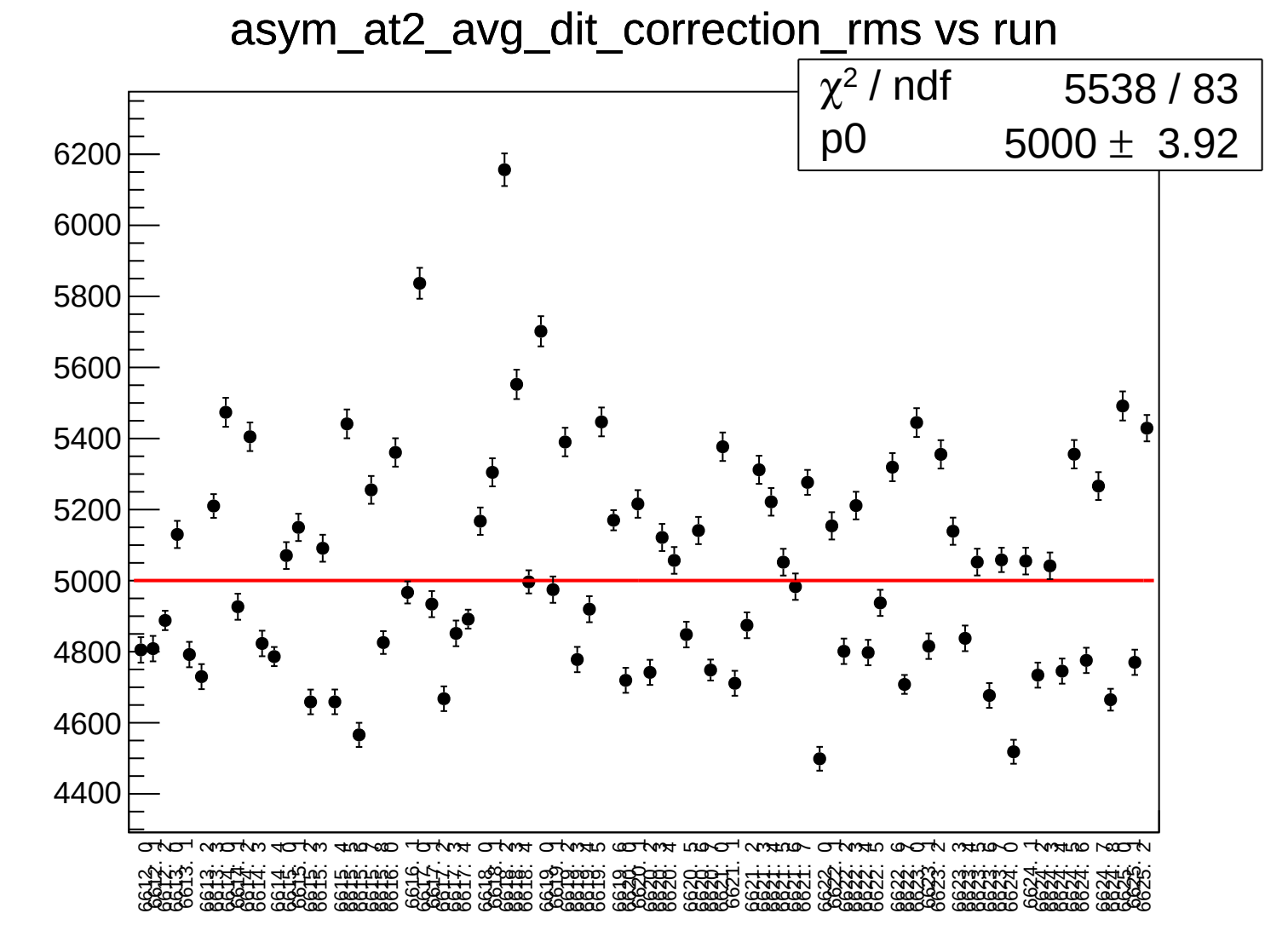

dit_asym_at2_avg_mean vs run
χ² / ndf 92.67 / 83
p0 2078 ± 1588
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −24.36
Std Dev 0
2
1
0
−1
−2

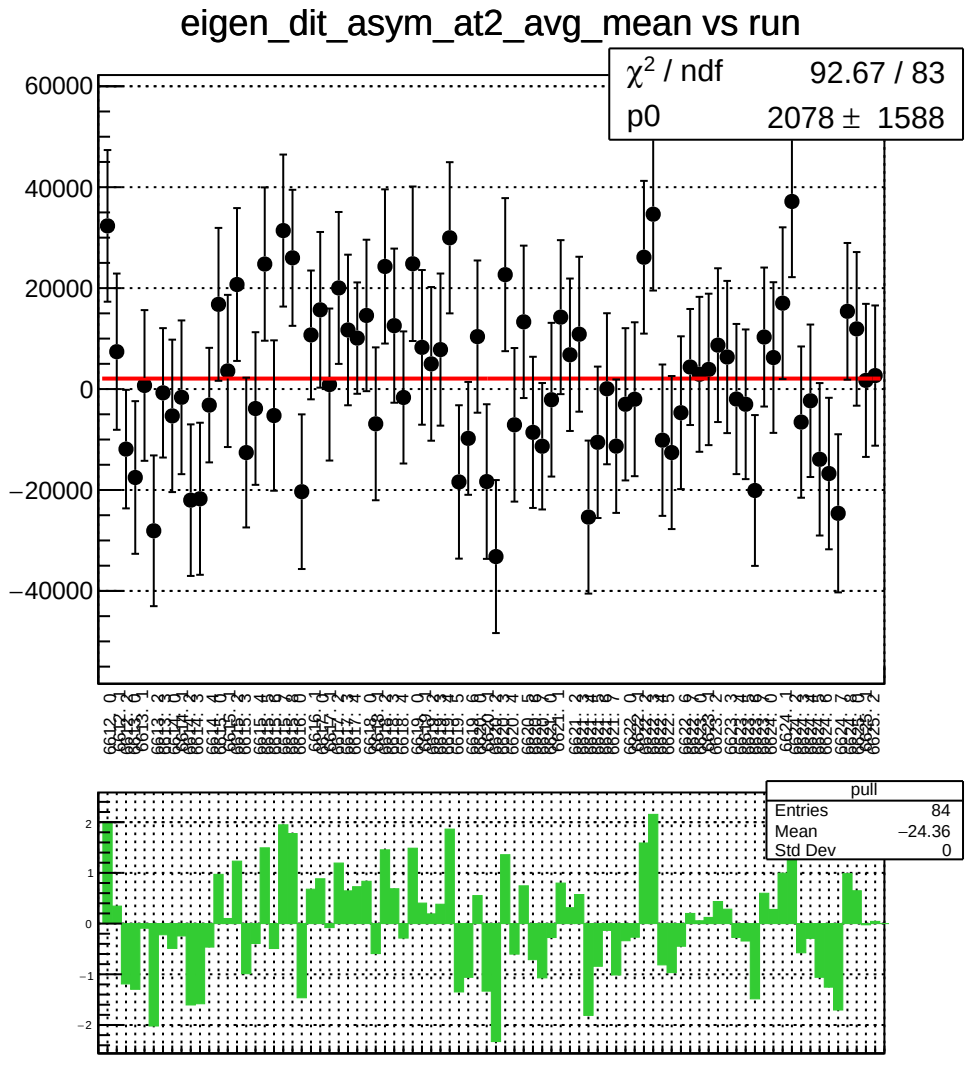

pull1D
Entries 84
Mean 0.005933
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

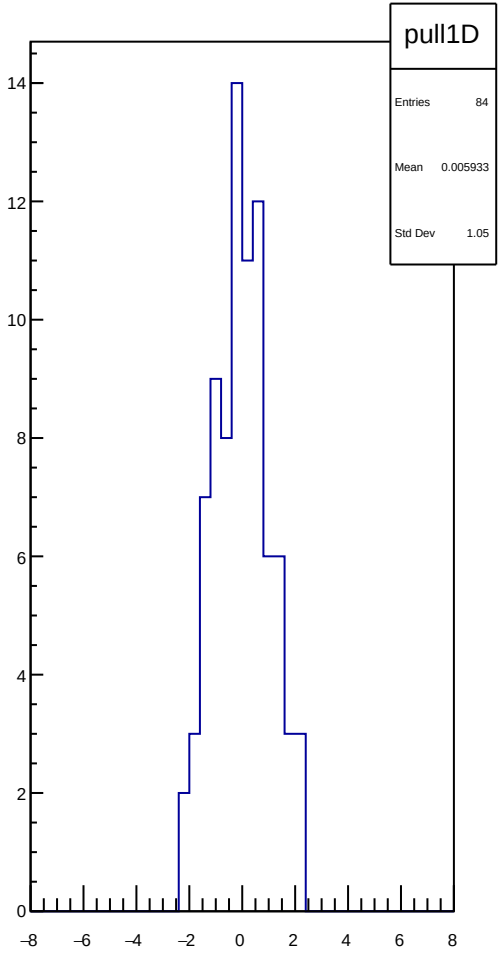

dit_asym_at2_avg_rms vs run
χ² / ndf 196.9 / 83
p0 1435 ± 1.123
1500
1480
1460
1440
1420
1400

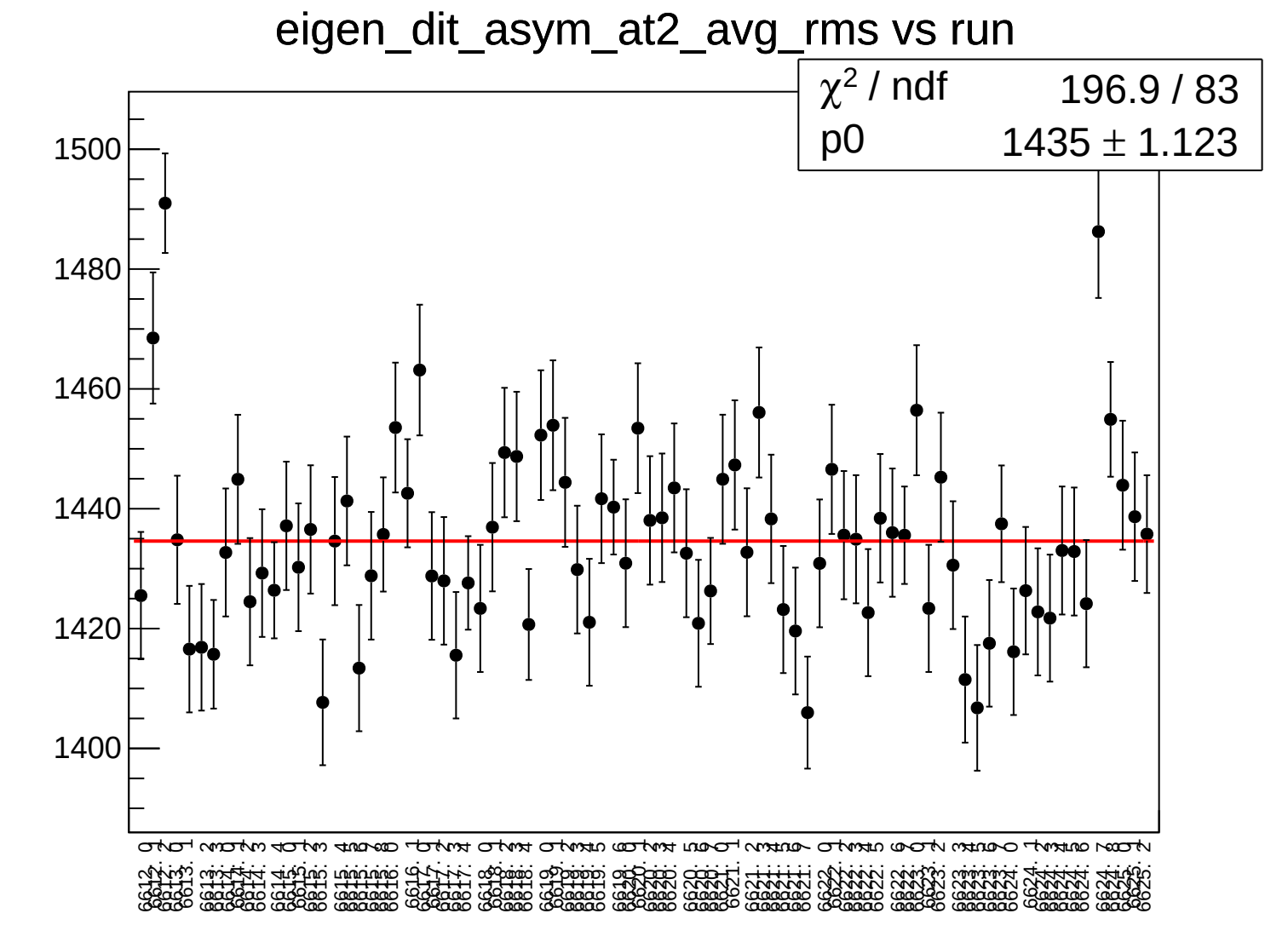

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 75.61 / 83
p0 −698 ± 5544
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 1511
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

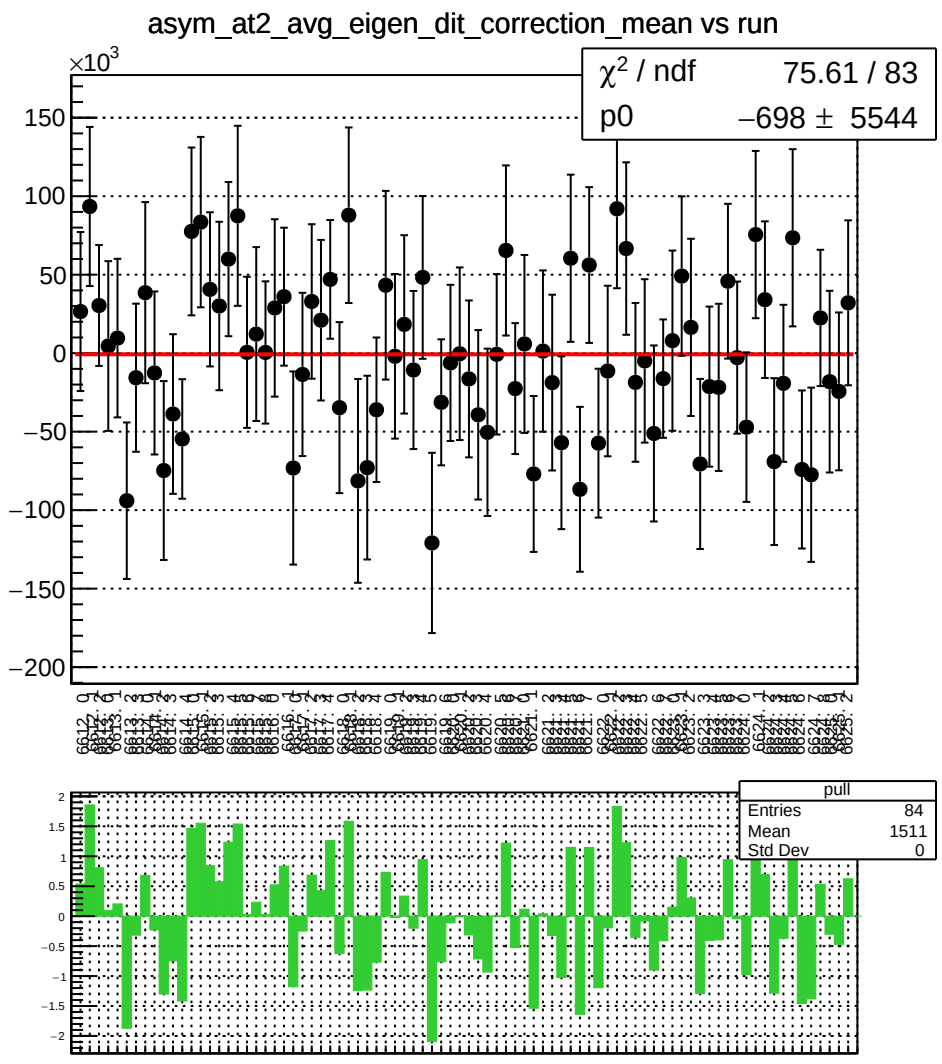

pull1D
Entries 84
Mean −0.002123
Std Dev 0.9488
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

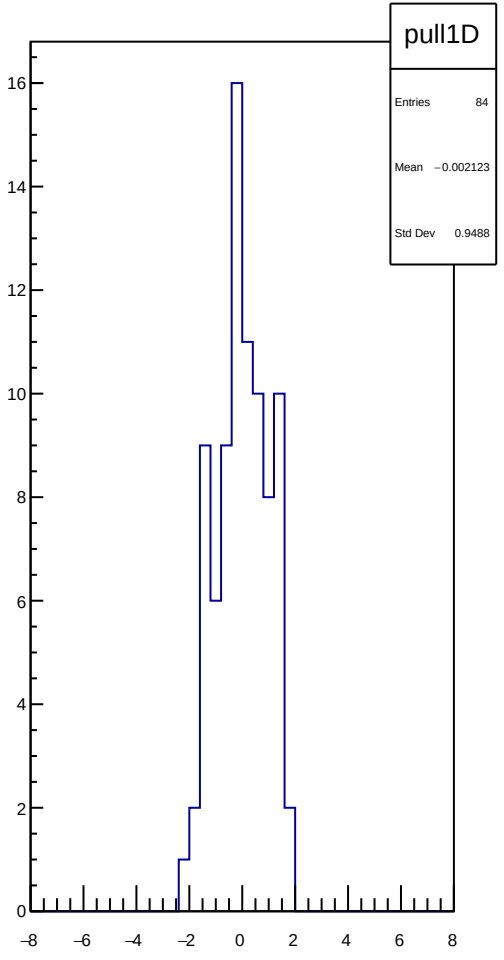

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 5538 / 83
p0 5000 ± 3.92
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

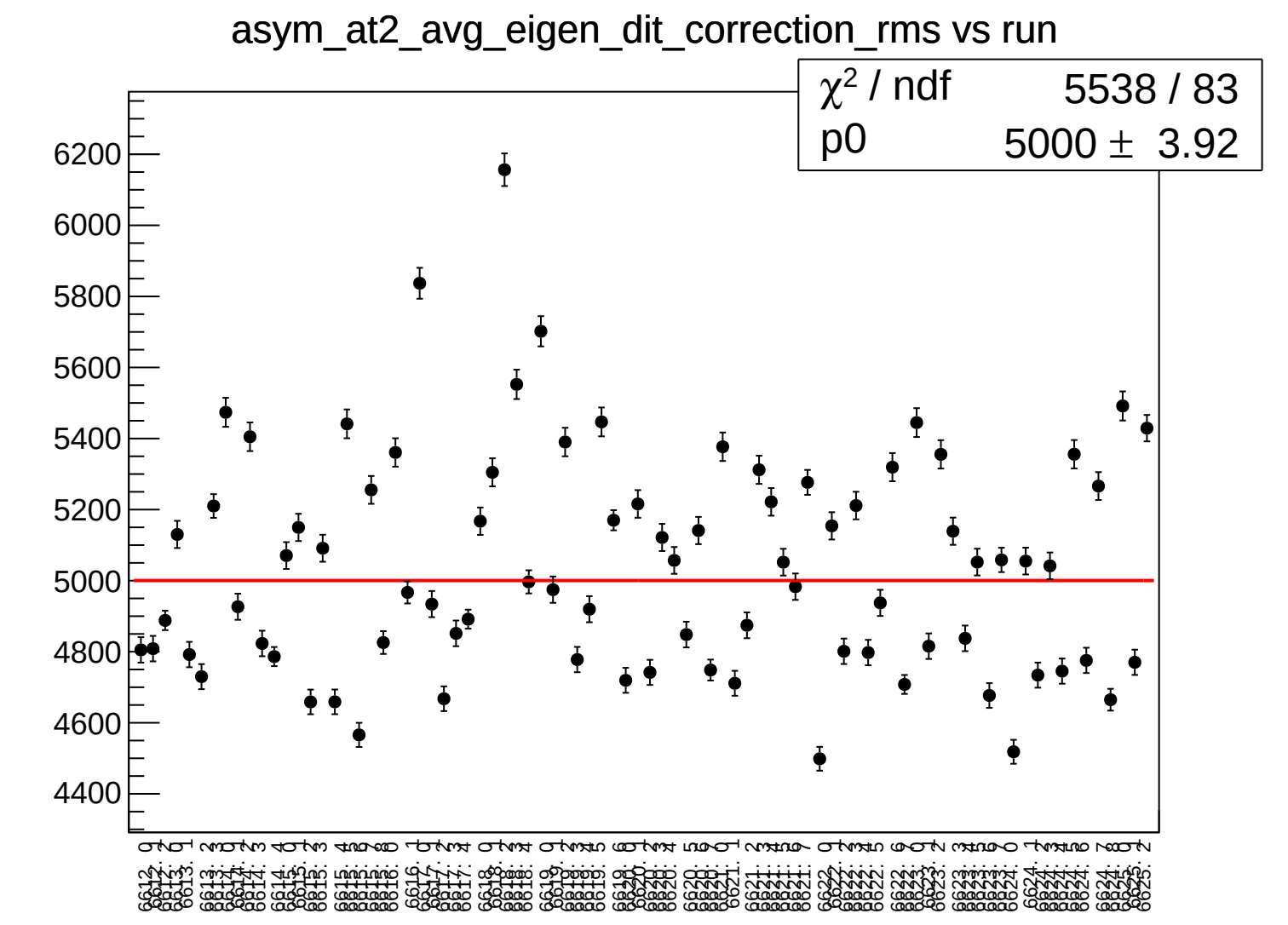

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 92.67 / 83
p0 2078 ± 1588
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −24.36
Std Dev 0
2
1
0
−1
−2

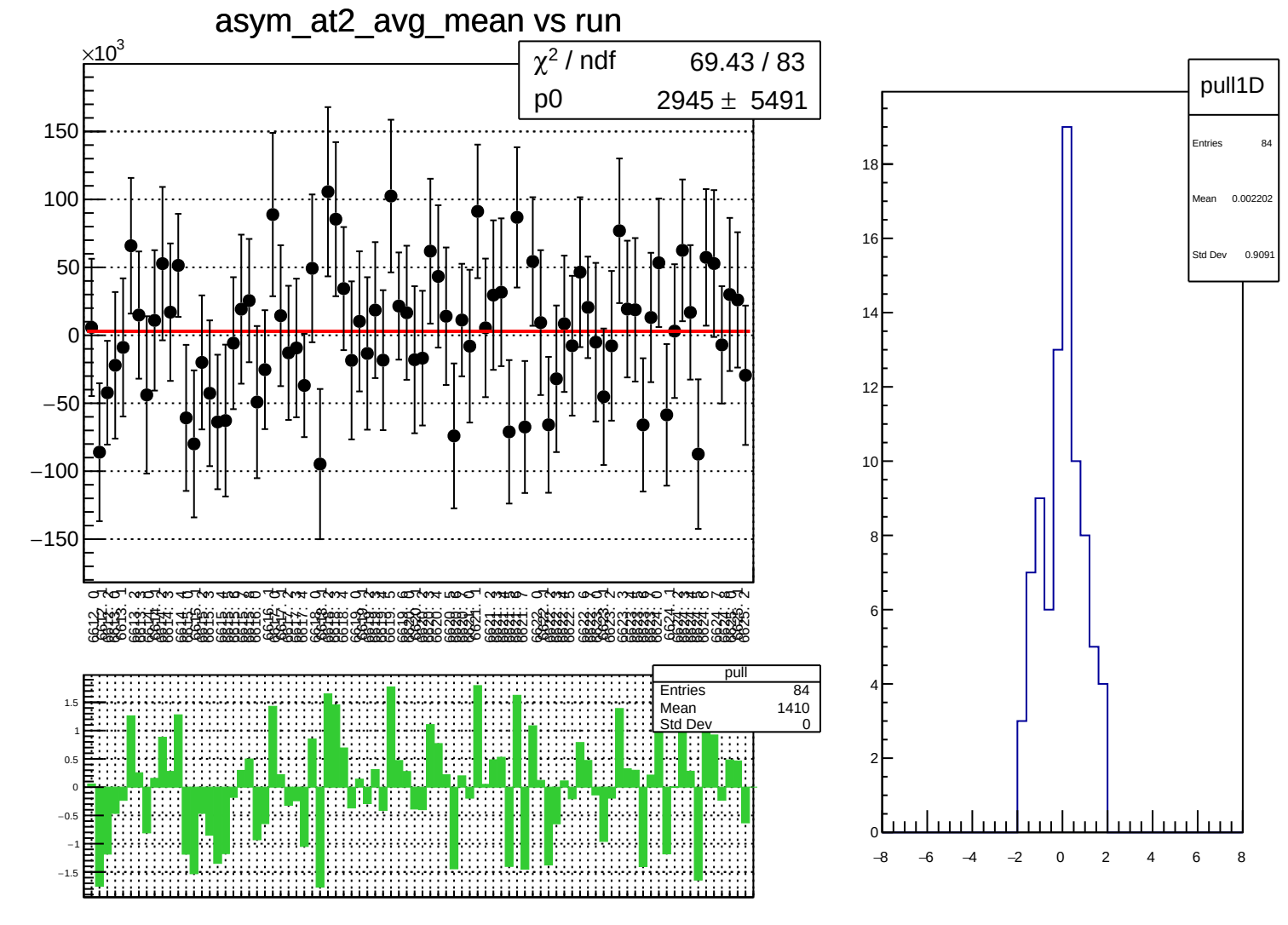

pull1D
Entries 84
Mean 0.005933
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

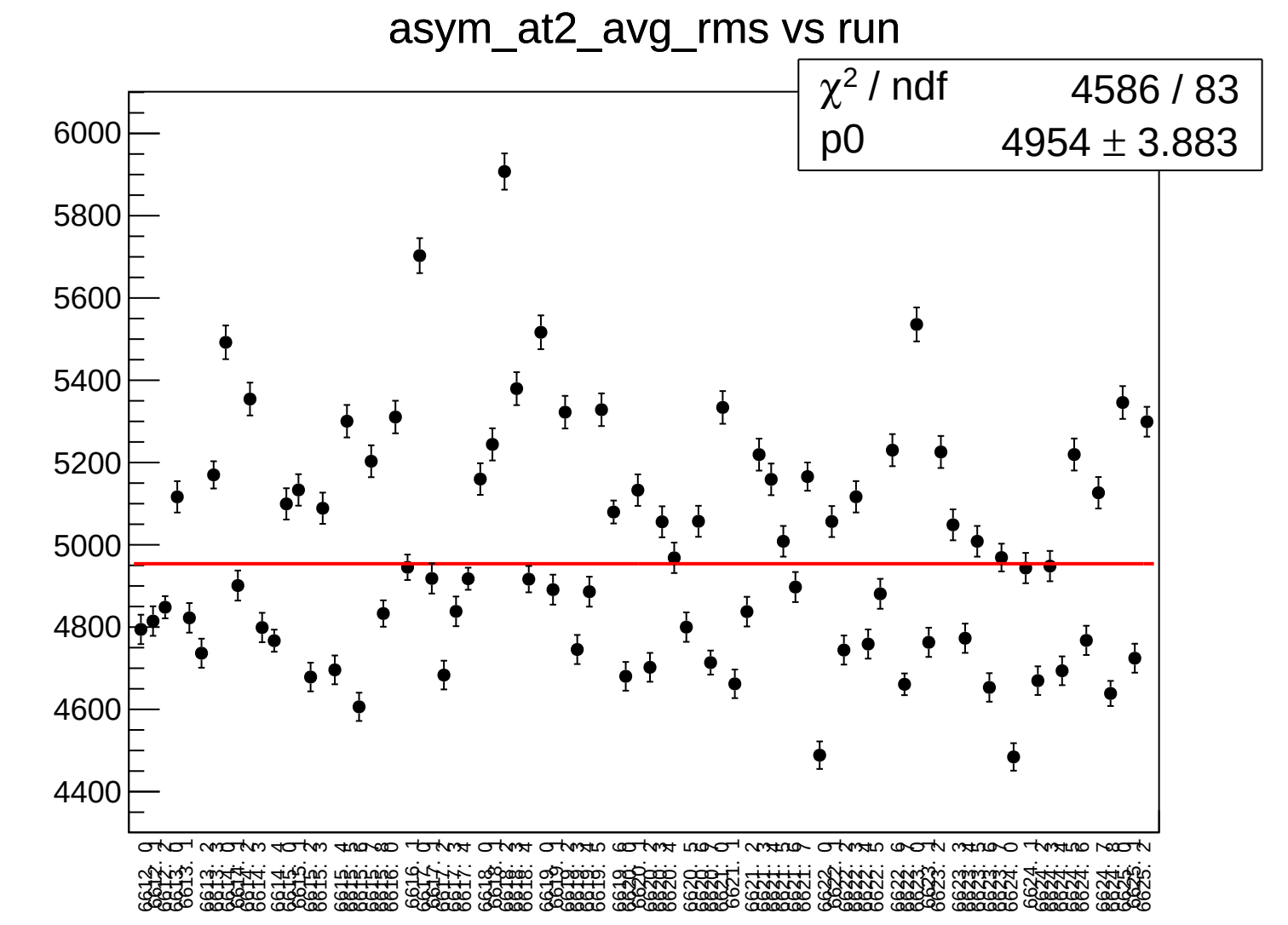

eigen_dit_asym_at2_avg_rms vs run
χ^2 / ndf 196.9 / 83
p0 1435 ± 1.123
1500
1480
1460
1440
1420
1400

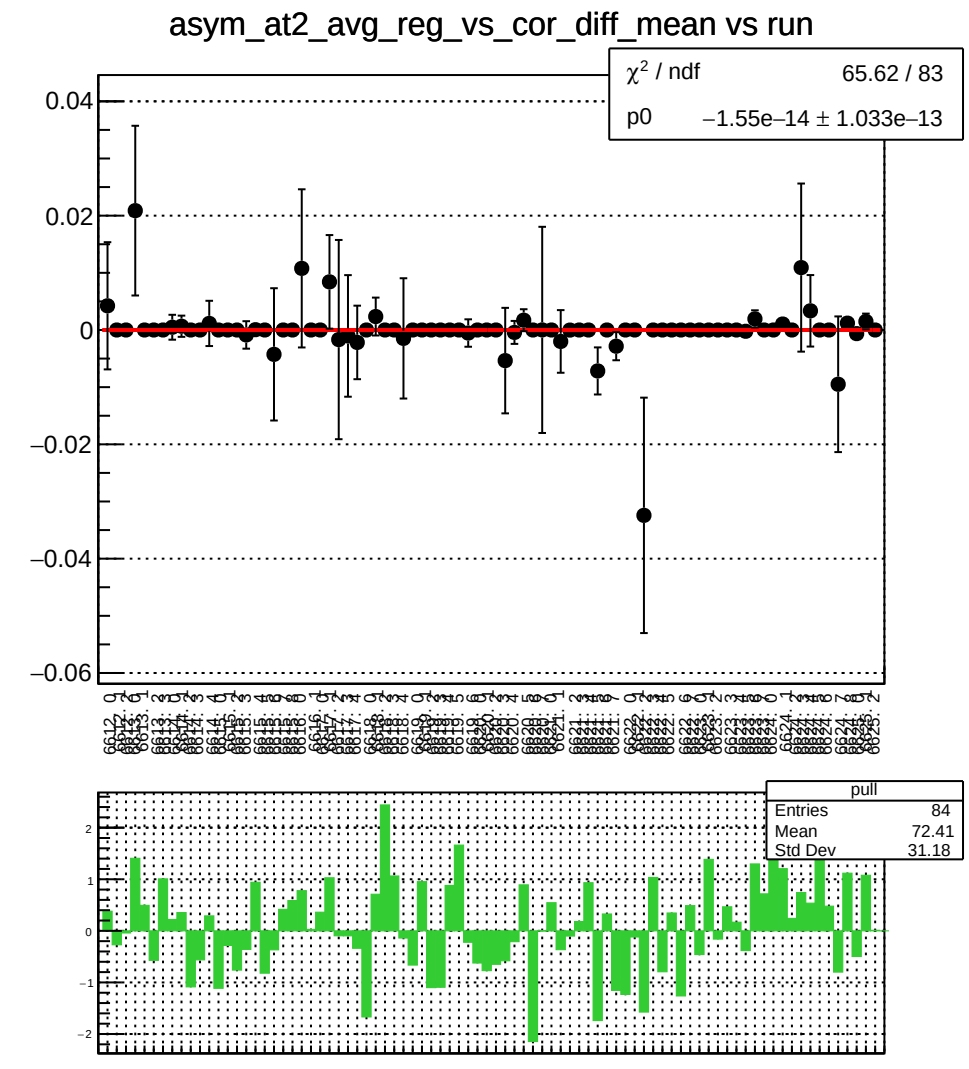

asym_at2_avg_eigen_dit_correction_mean vs run
χ² / ndf 75.61 / 83
p0 −698 ± 5544
×10³
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 1511
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

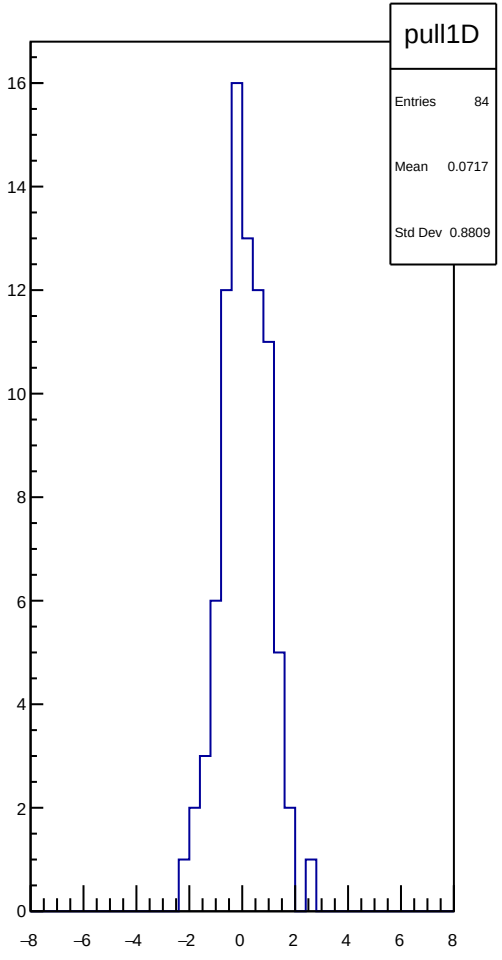

pull1D
Entries 84
Mean −0.002123
Std Dev 0.9488
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

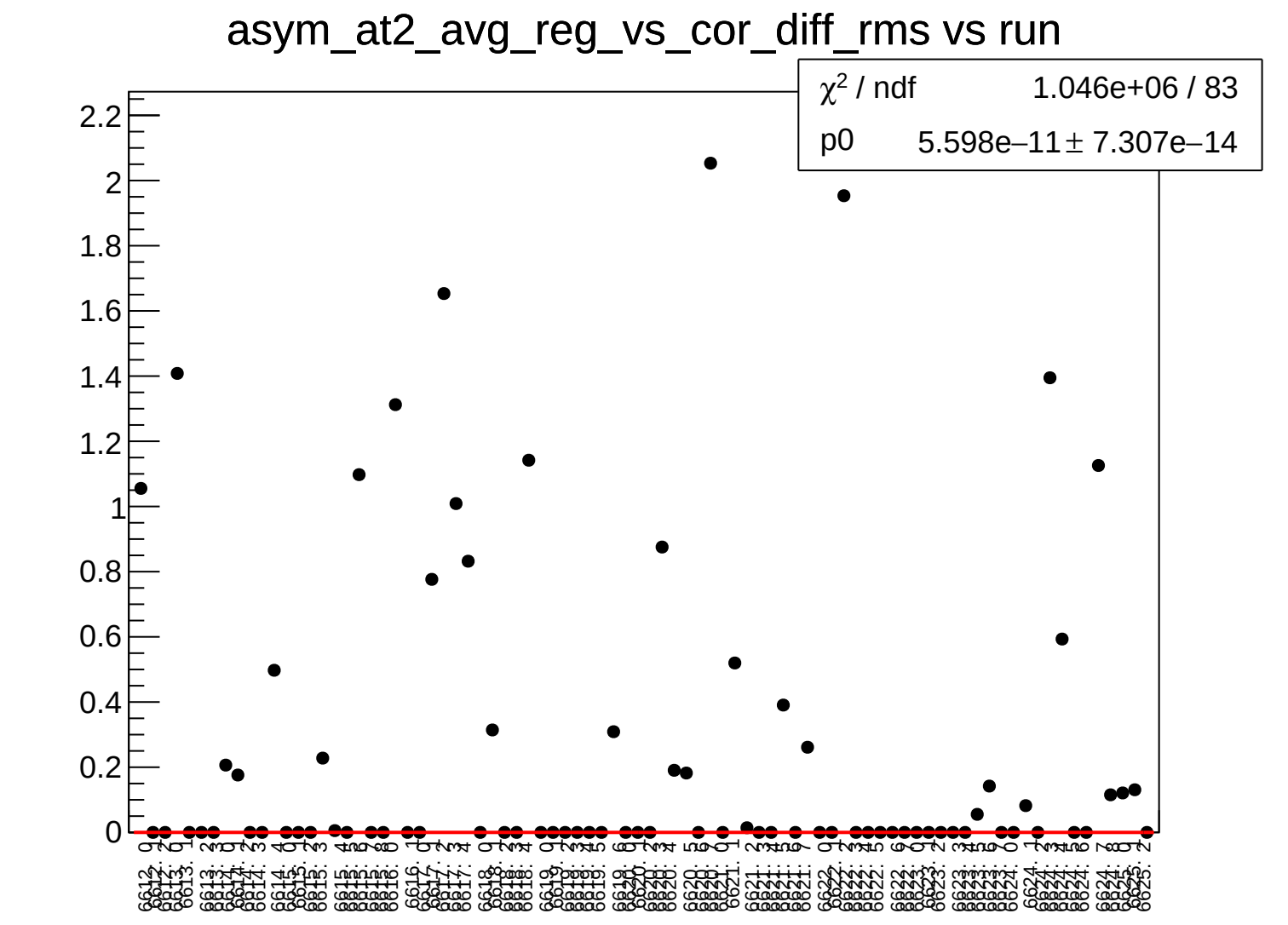

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5538 / 83
p0 5000 ± 3.92
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

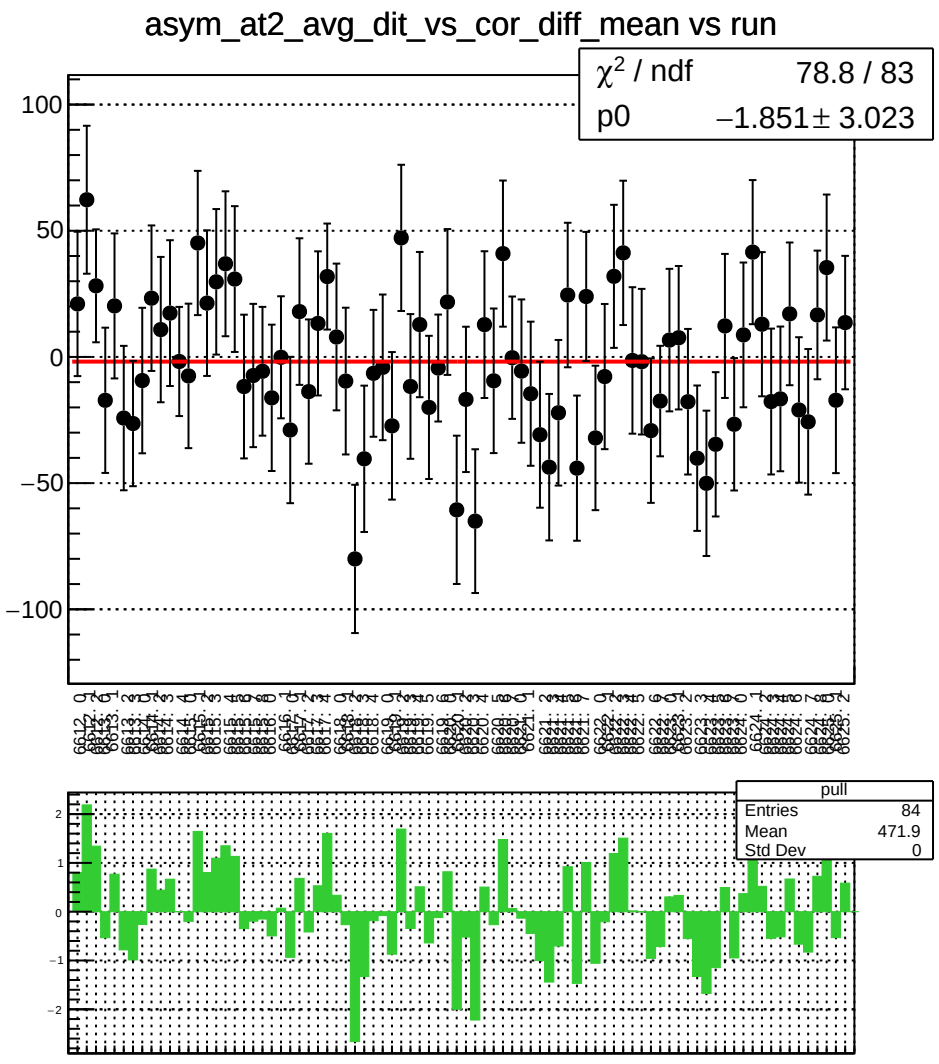

asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 69.43 / 83
p0 2945 ± 5491
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 1410
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.002202
Std Dev 0.9091
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

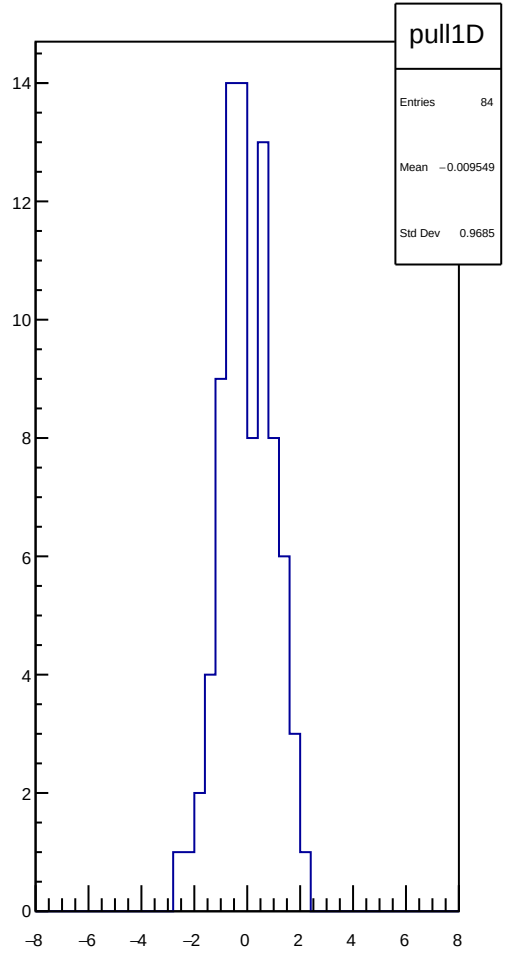

asym_at2_avg_rms vs run
χ² / ndf 4586 / 83
p0 4954 ± 3.883
6000
5800
5600
5400
5200
5000
4800
4600
4400

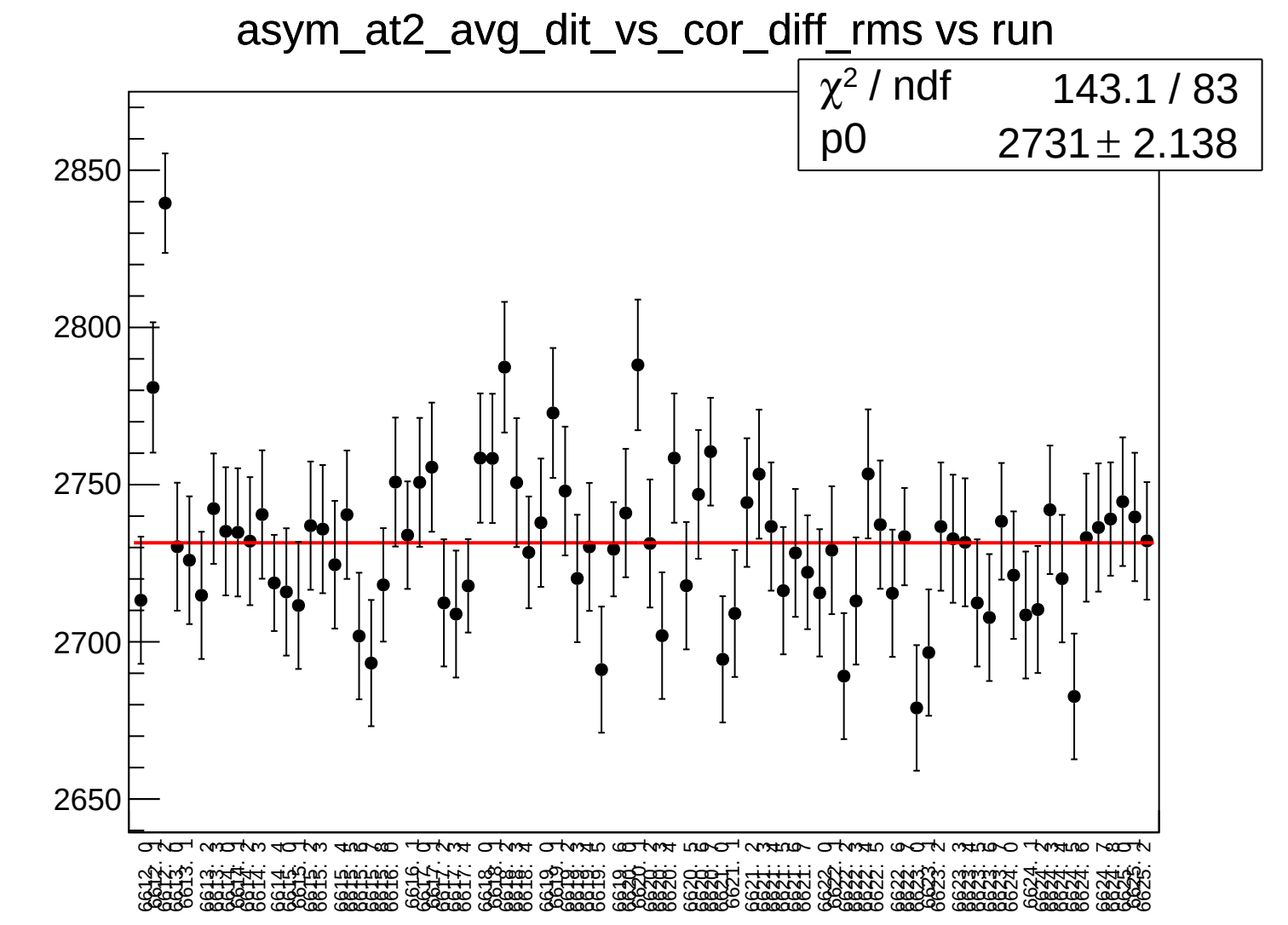

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 65.62 / 83
p0 −1.55e−14 ± 1.033e−13
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 84
Mean 72.41
Std Dev 31.18
2
1
0
−1
−2

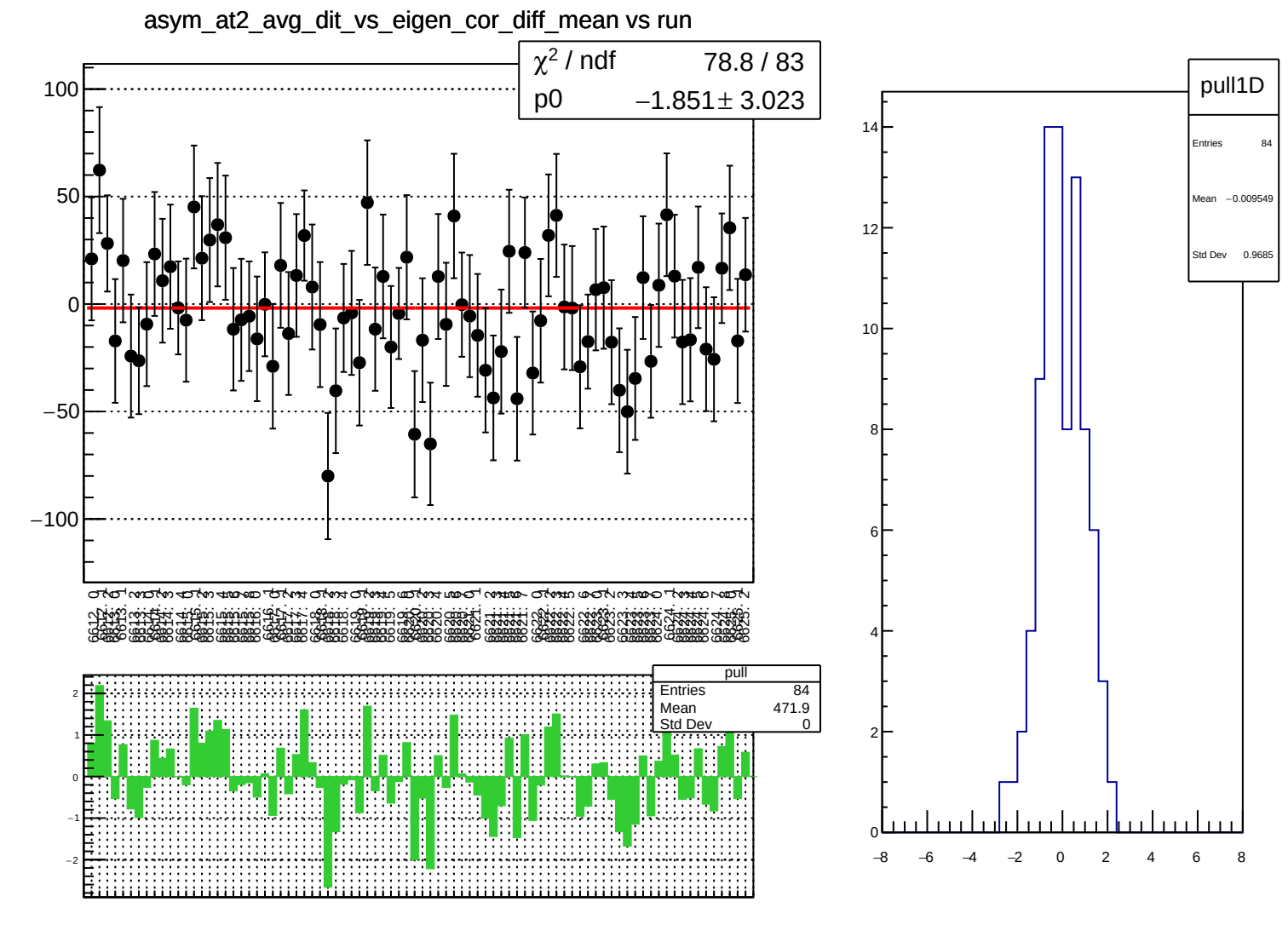

pull1D
Entries 84
Mean 0.0717
Std Dev 0.8809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

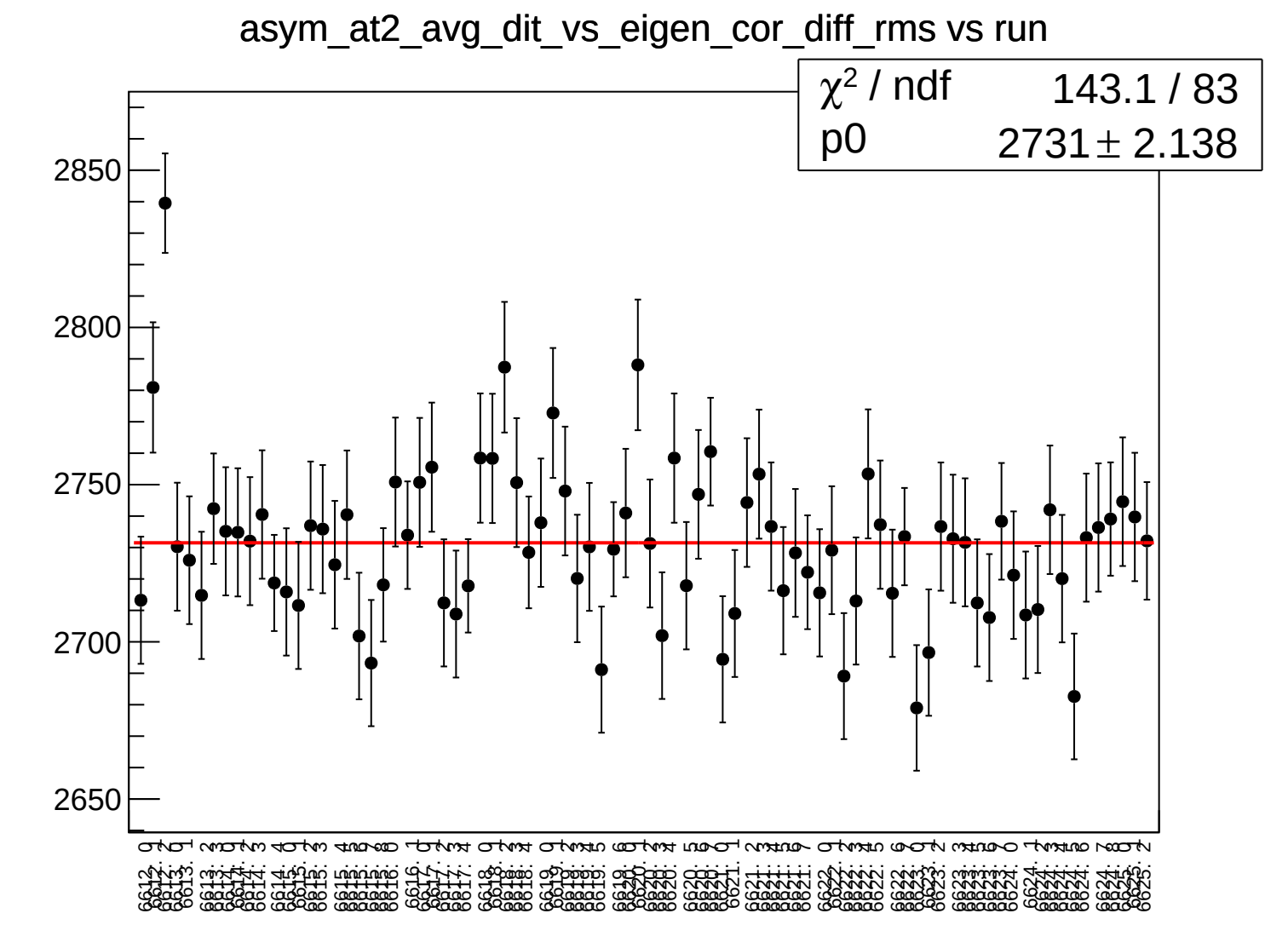

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.046e+06 / 83
p0 5.598e−11 ± 7.307e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

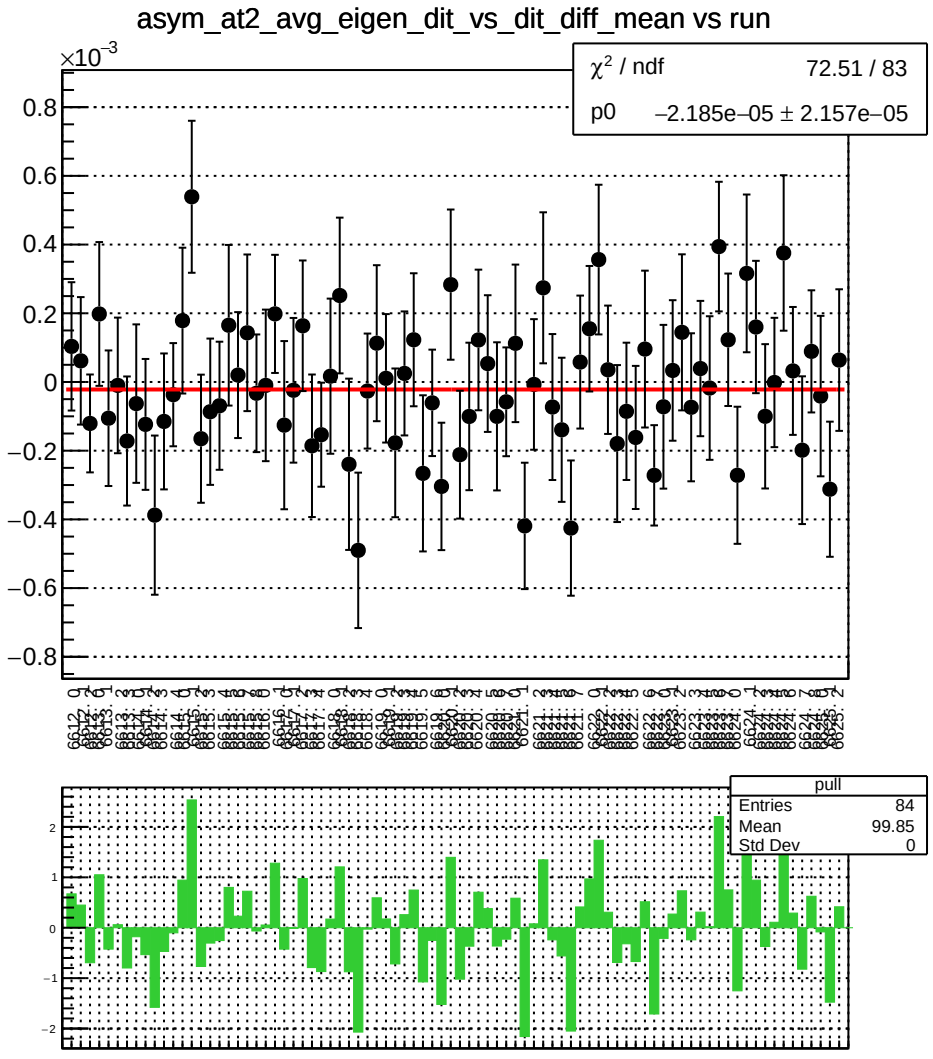

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.8 / 83
p0 −1.851 ± 3.023
100
50
0
−50
−100
pull
Entries 84
Mean 471.9
Std Dev 0
2
1
0
−1
−2

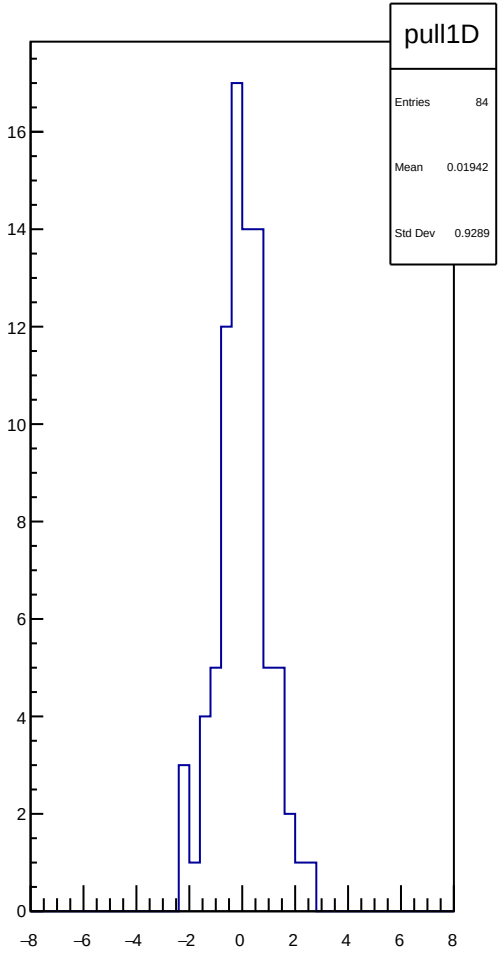

pull1D
Entries 84
Mean −0.009549
Std Dev 0.9685
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

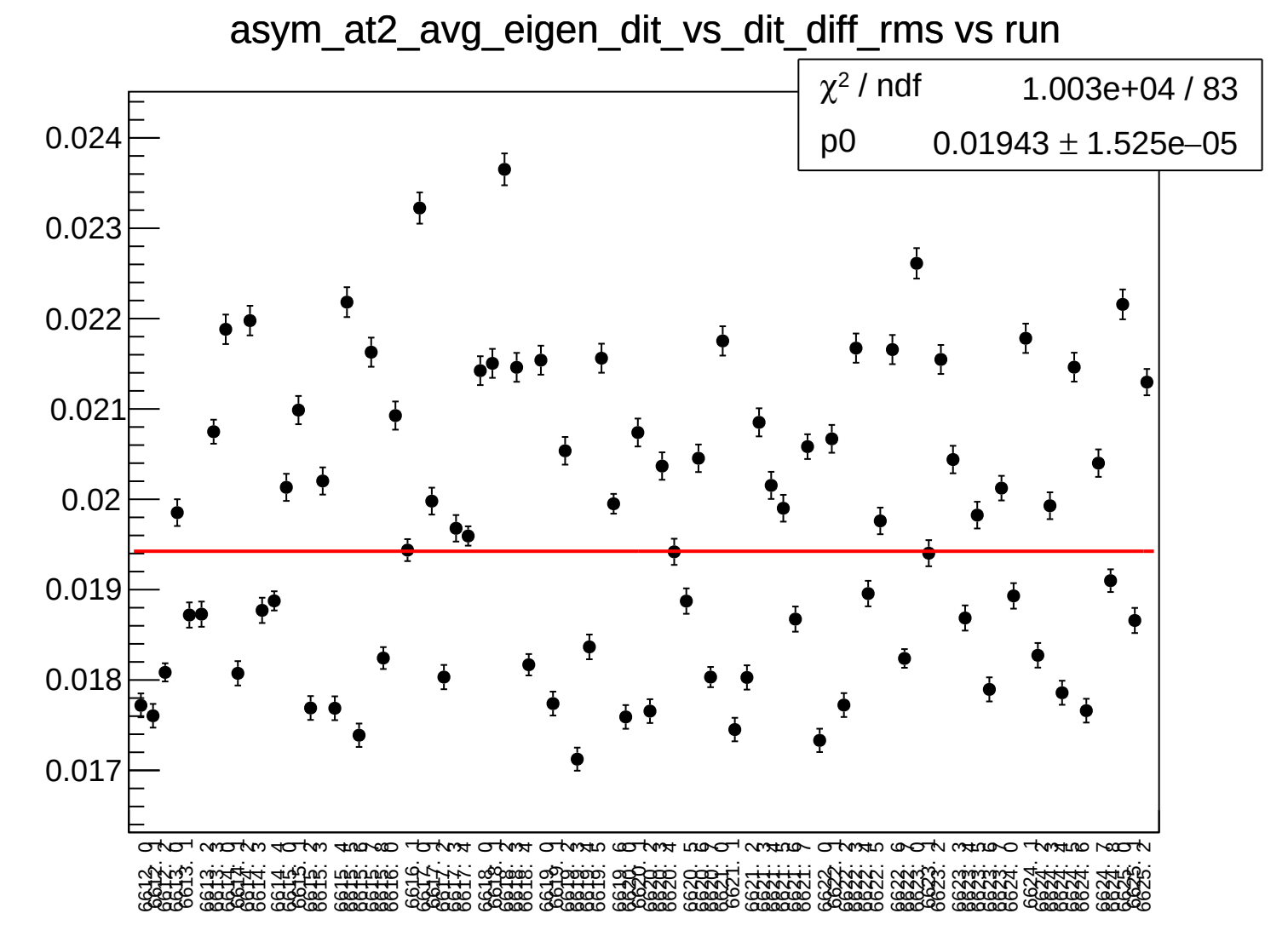

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 143.1 / 83
p0 2731 ± 2.138
2850
2800
2750
2700
2650

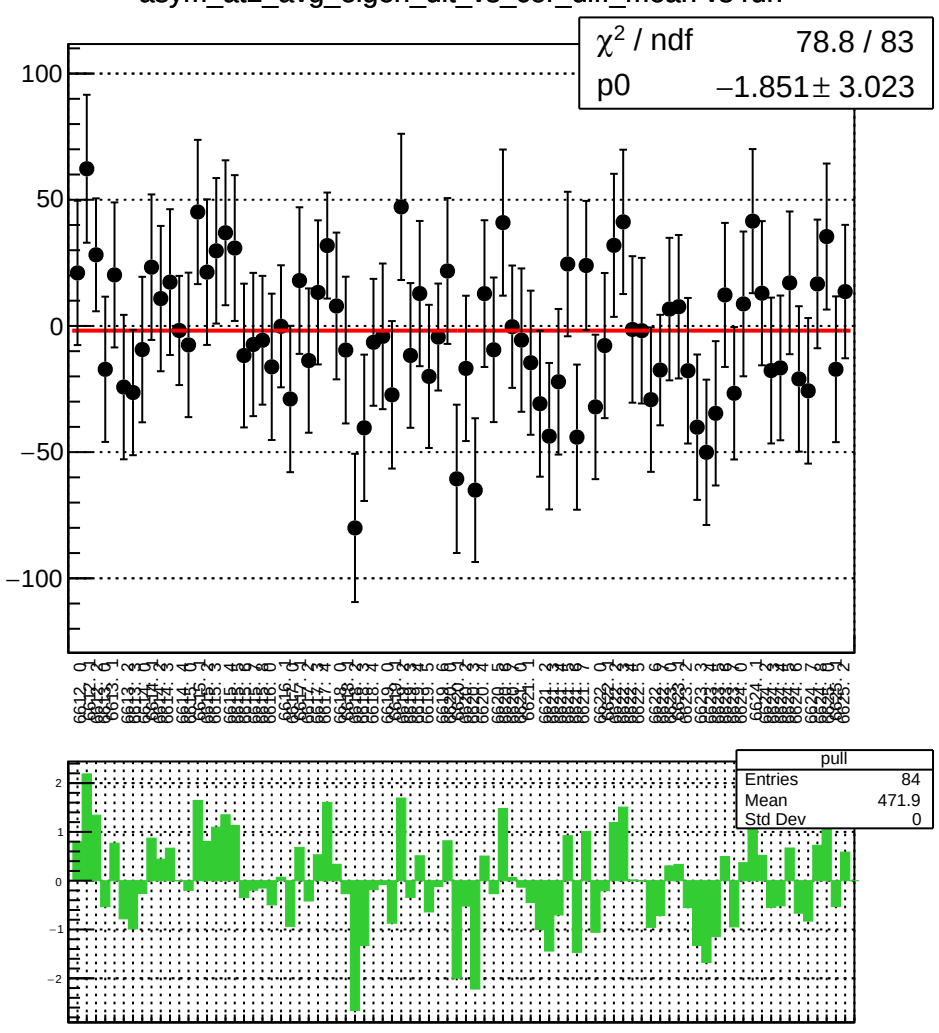

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.8 / 83
p0 −1.851 ± 3.023
pull
Entries 84
Mean 471.9
Std Dev 0
pull1D
Entries 84
Mean −0.009549
Std Dev 0.9685

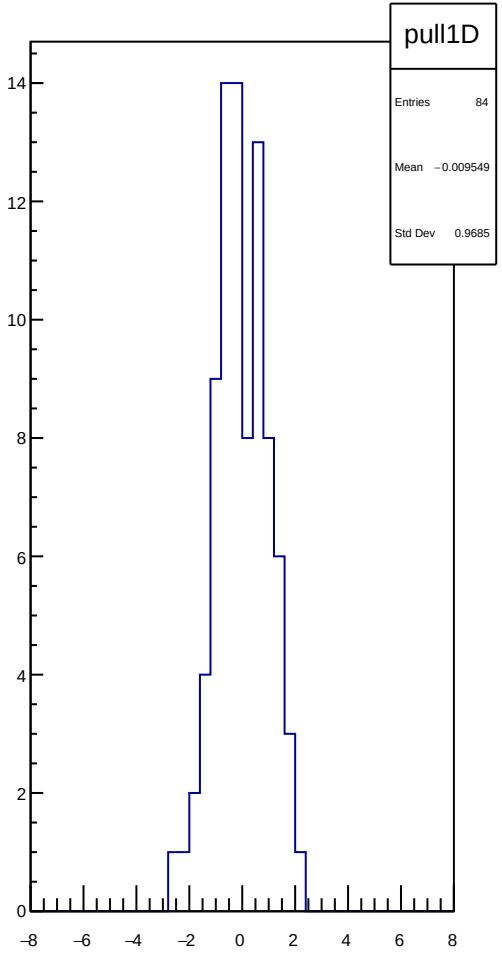

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 143.1 / 83
p0 2731 ± 2.138
2850
2800
2750
2700
2650

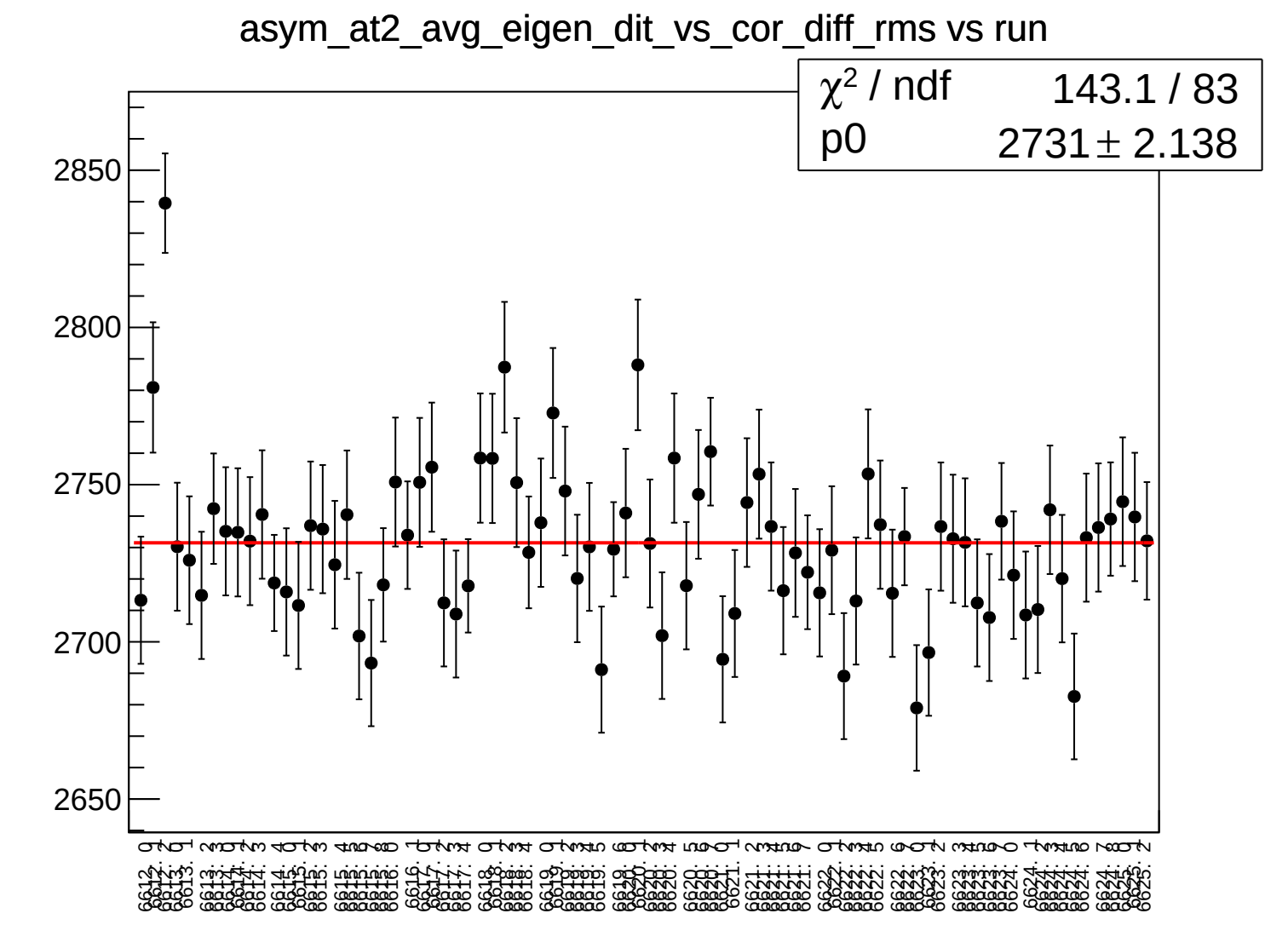

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.51 / 83
p0 −2.185e−05 ± 2.157e−05
pull
Entries 84
Mean 99.85
Std Dev 0

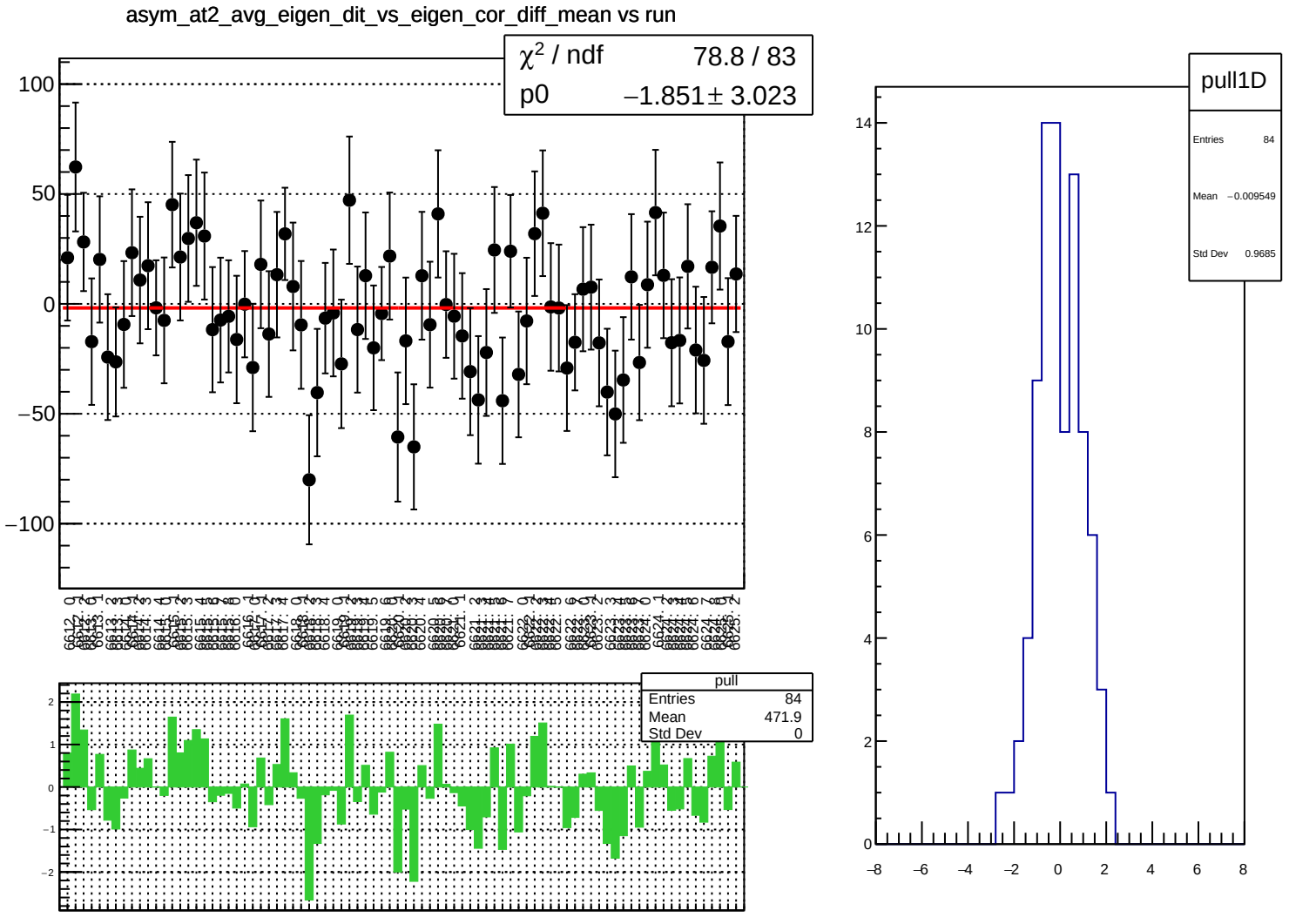

pull1D
Entries 84
Mean 0.01942
Std Dev 0.9289

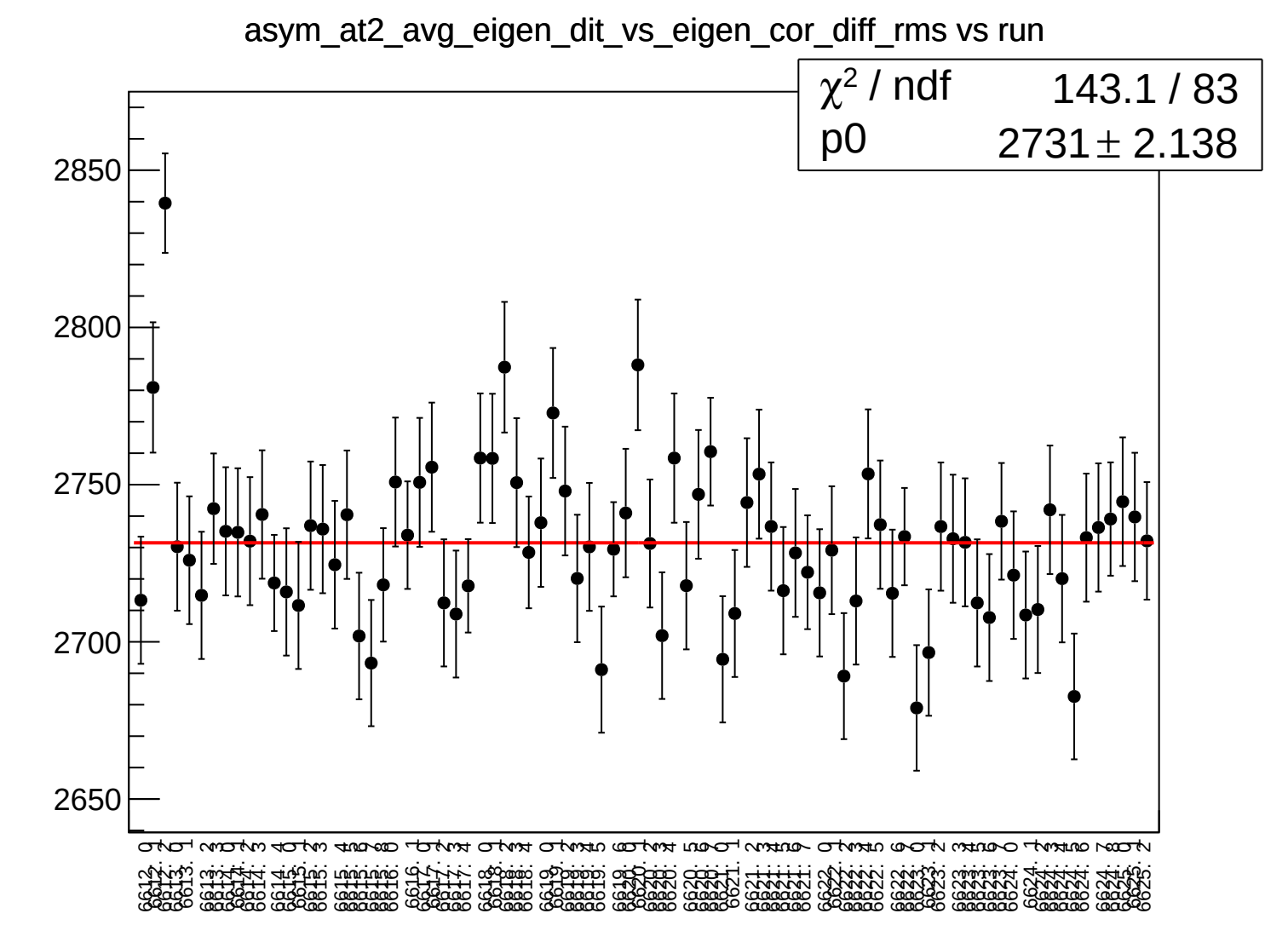

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.003e+04 / 83
p0 0.01943 ± 1.525e−05
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017

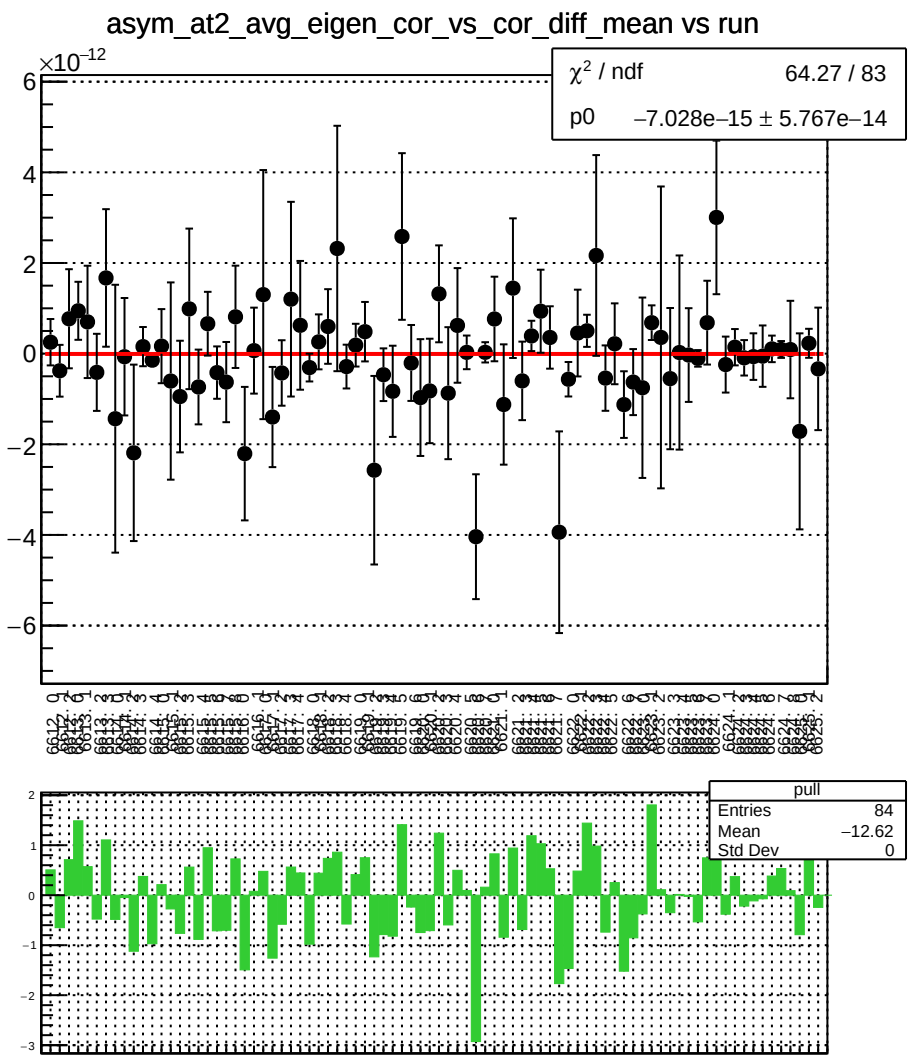

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.8 / 83
p0 −1.851 ± 3.023
pull
Entries 84
Mean 471.9
Std Dev 0

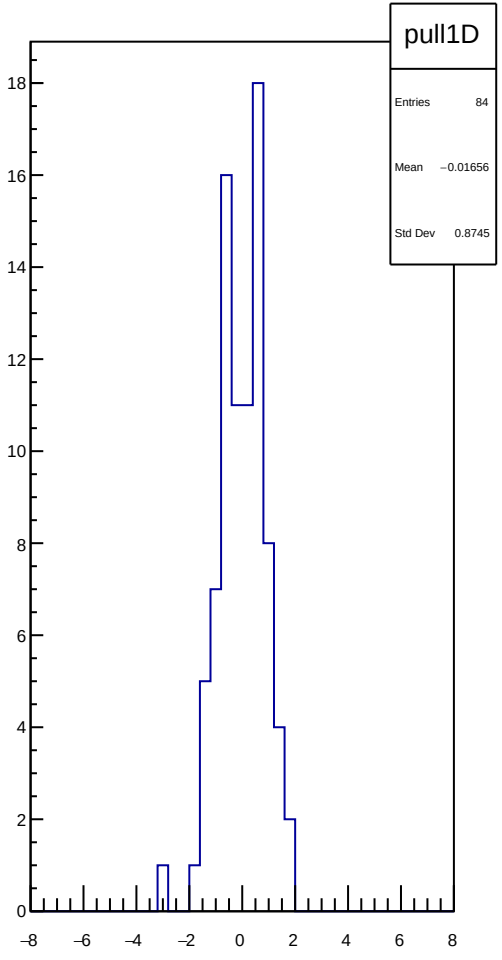

pull1D
Entries 84
Mean −0.009549
Std Dev 0.9685

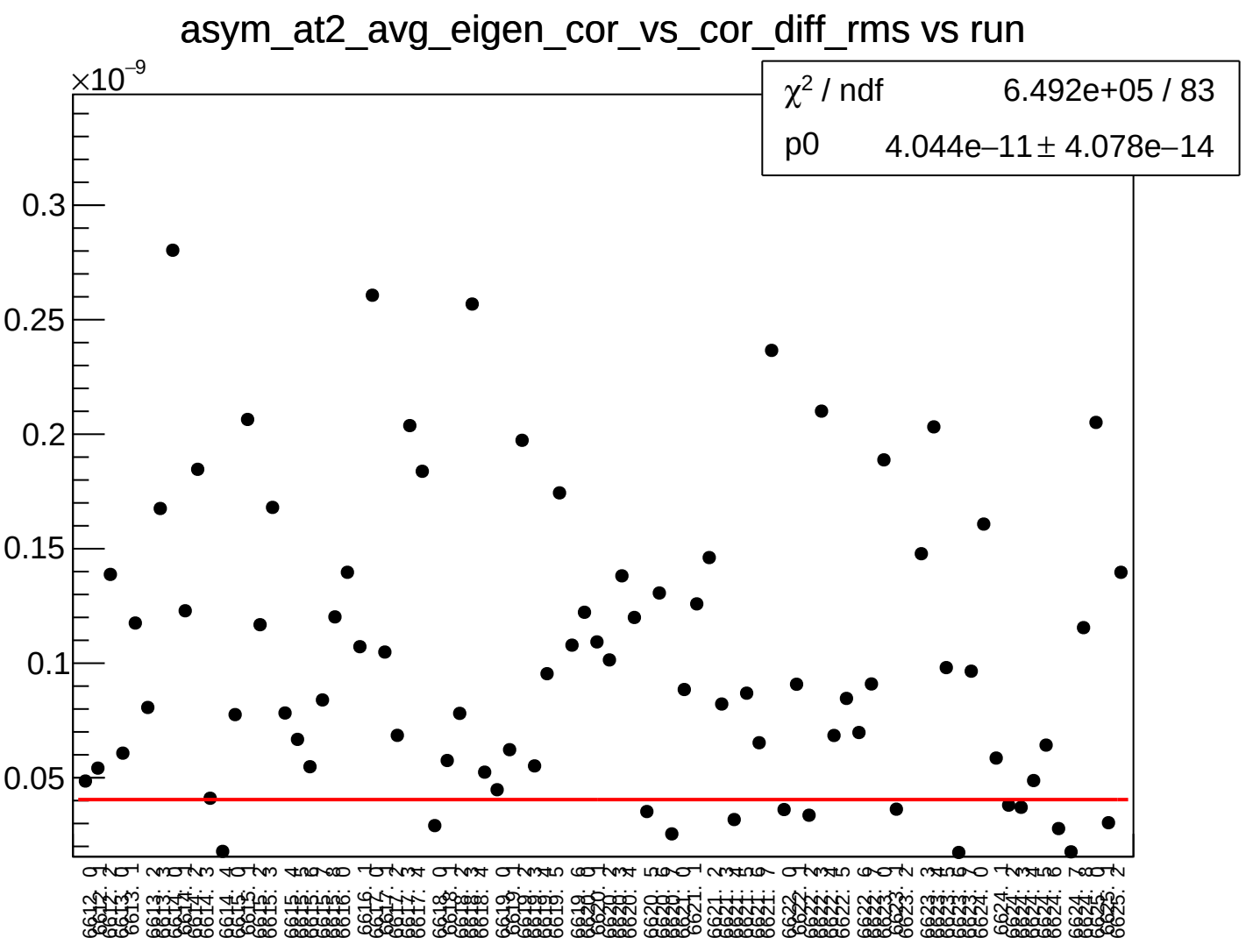

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 143.1 / 83
p0 2731 ± 2.138
2850
2800
2750
2700
2650

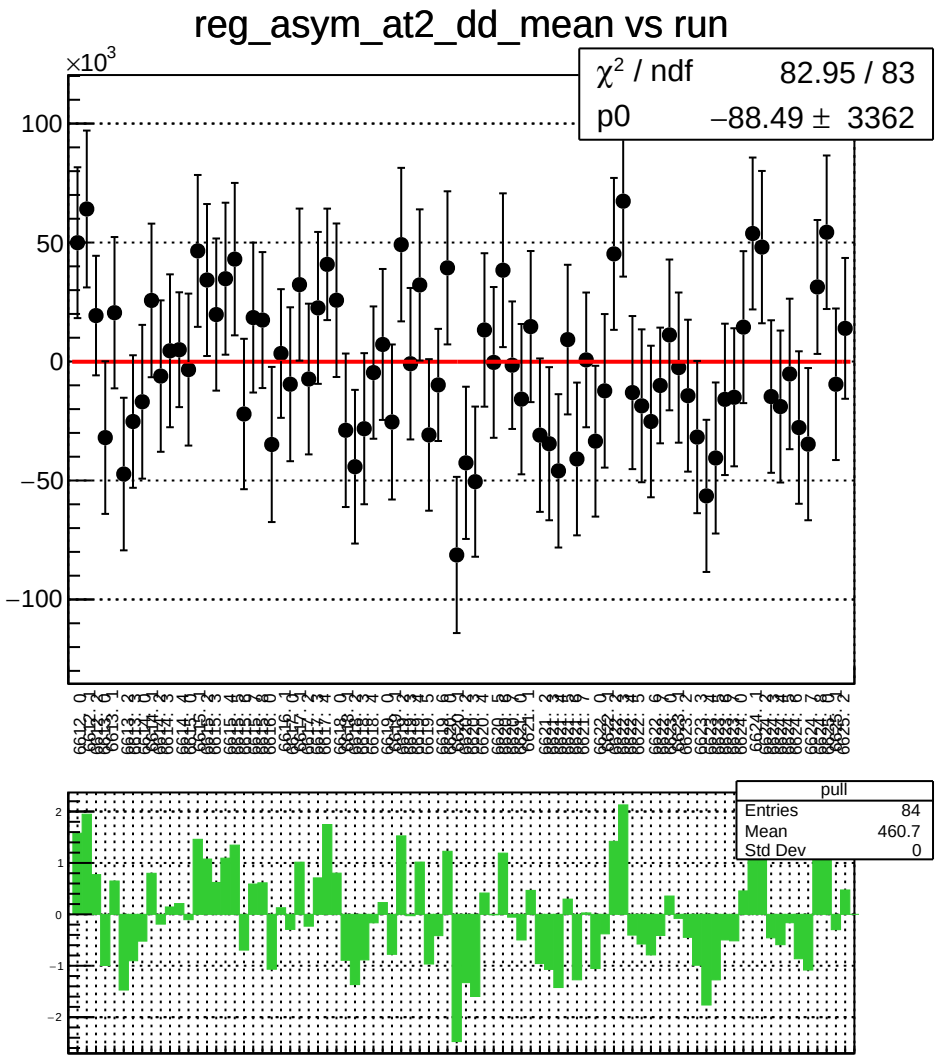

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.8 / 83
p0 −1.851± 3.023
pull
Entries 84
Mean 471.9
Std Dev 0
pull1D
Entries 84
Mean −0.009549
Std Dev 0.9685

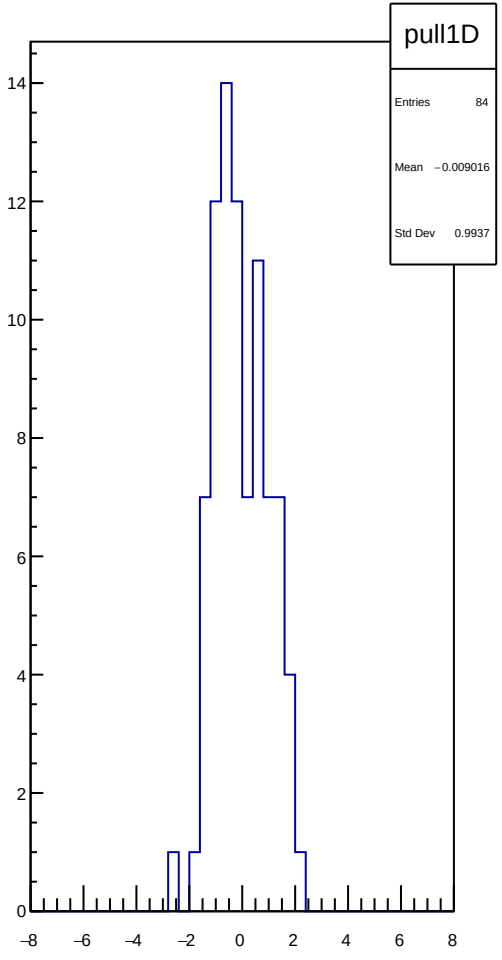

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 143.1 / 83
p0 2731 ± 2.138
2850
2800
2750
2700
2650

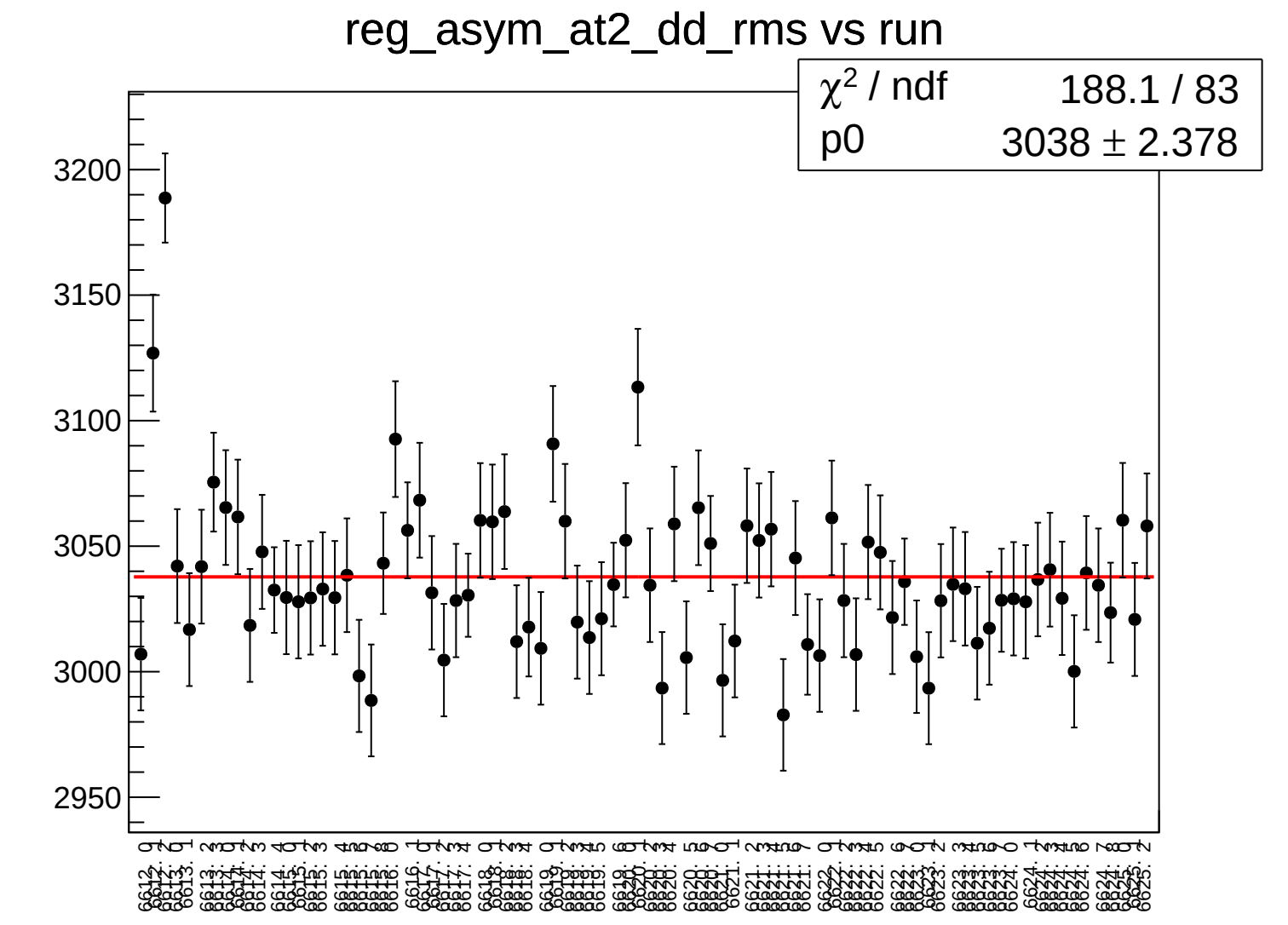

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.27 / 83
p0 −7.028e−15 ± 5.767e−14
pull
Entries 84
Mean −12.62
Std Dev 0

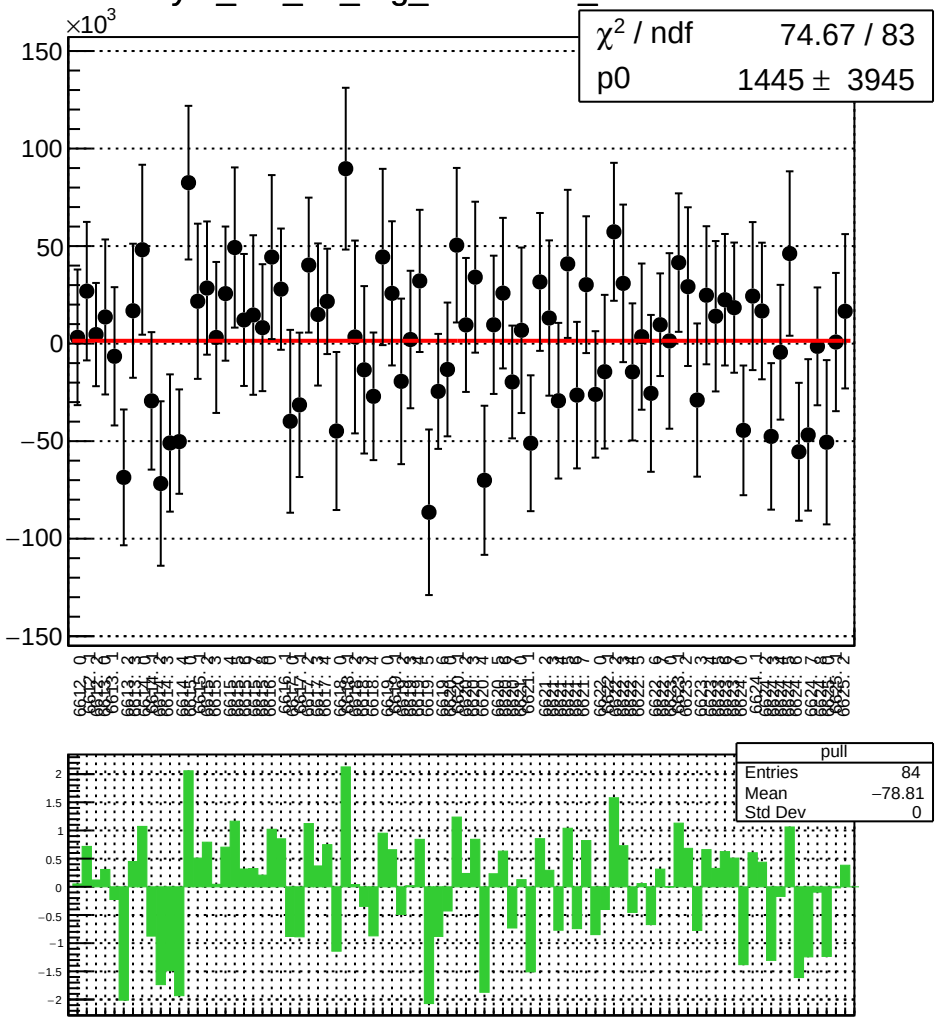

pull1D
Entries 84
Mean −0.01656
Std Dev 0.8745

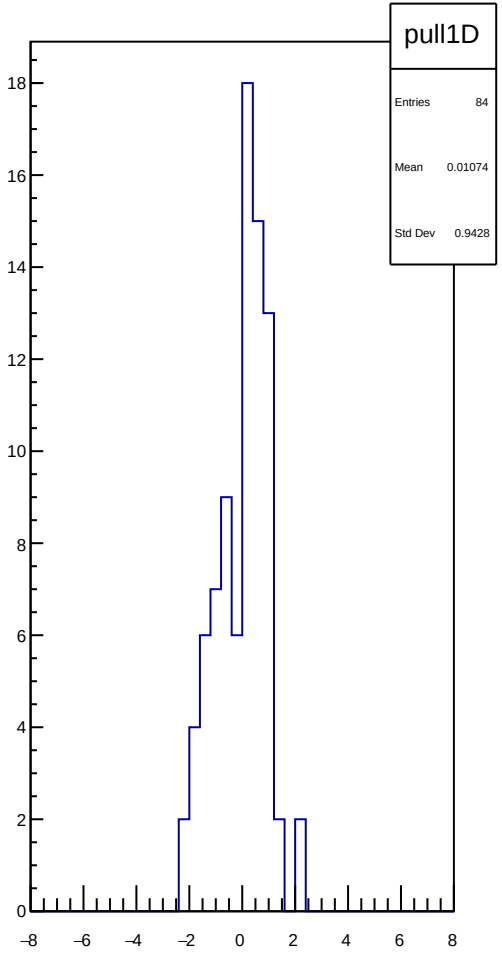

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.492e+05 / 83
p0 4.044e−11 ± 4.078e−14
0.3
0.25
0.2
0.15
0.1
0.05

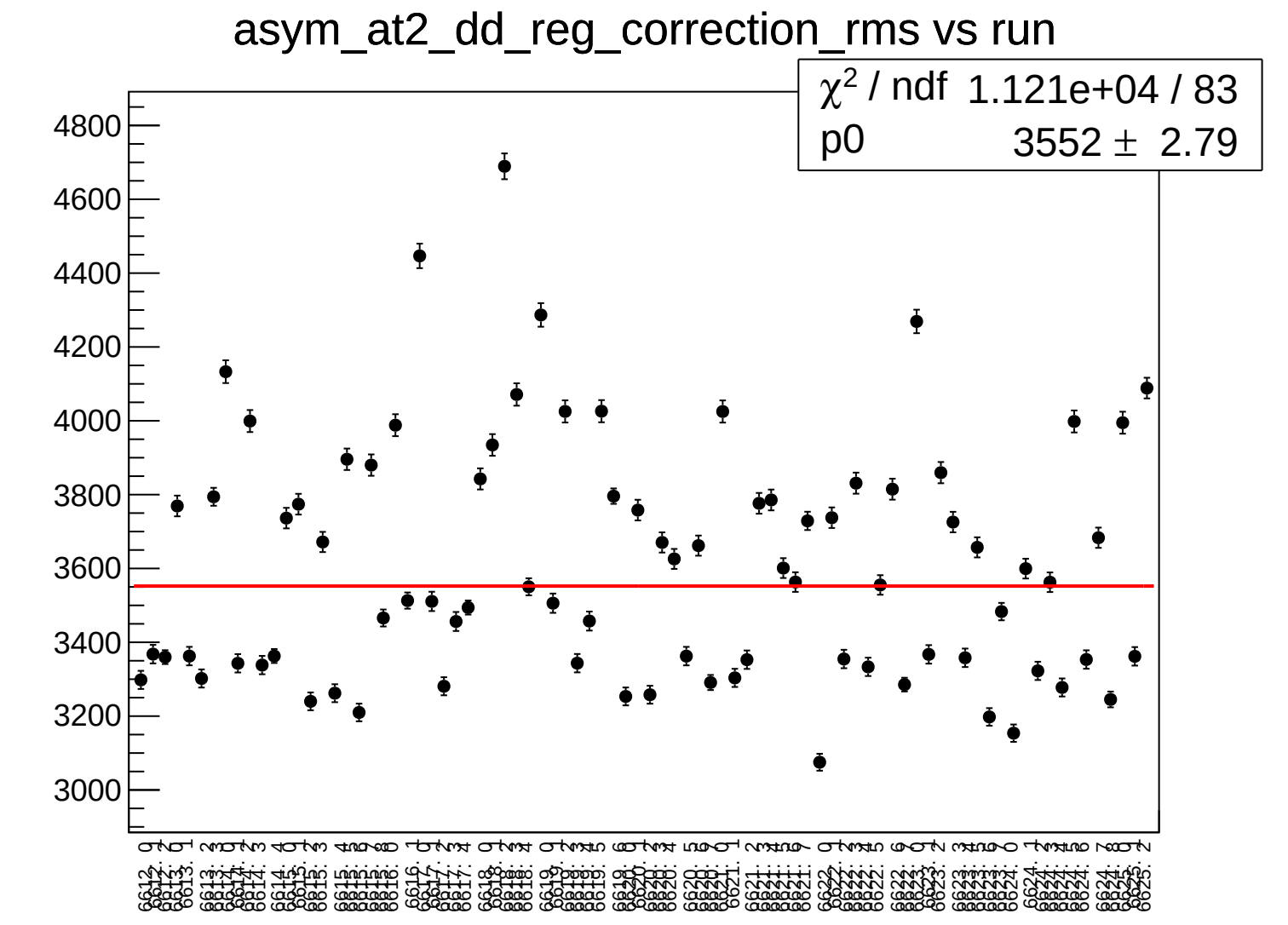

reg_asym_at2_dd_mean vs run
×10^3
χ² / ndf 82.95 / 83
p0 −88.49 ± 3362
100
50
0
−50
−100
pull
Entries 84
Mean 460.7
Std Dev 0
2
1
0
−1
−2

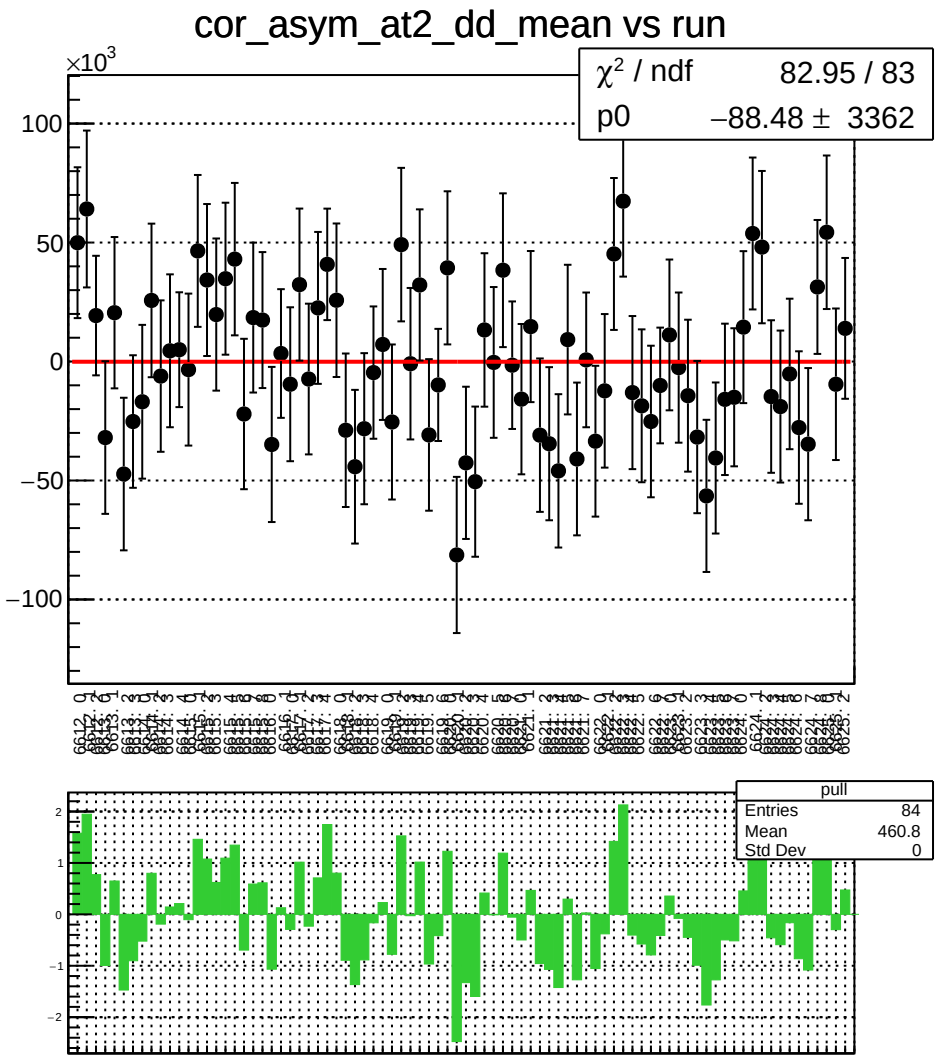

pull1D
Entries 84
Mean −0.009016
Std Dev 0.9937
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

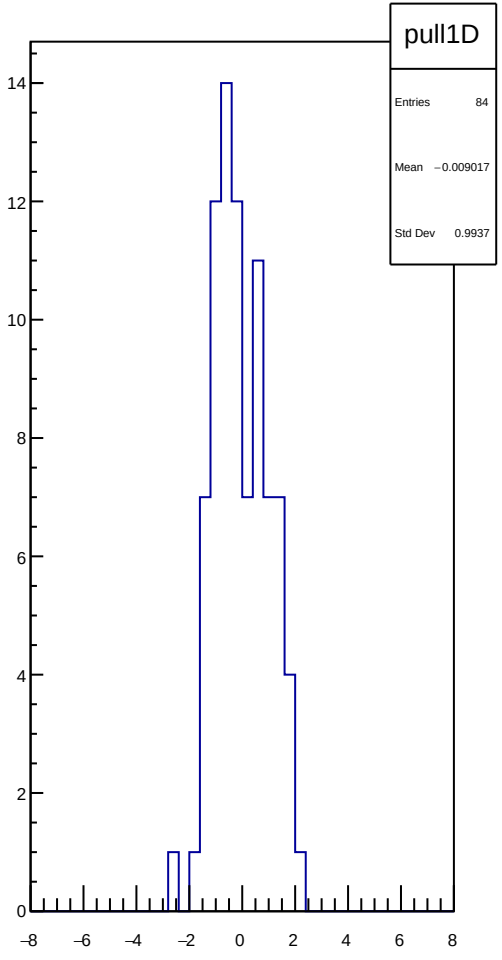

reg_asym_at2_dd_rms vs run
χ² / ndf 188.1 / 83
p0 3038 ± 2.378
3200
3150
3100
3050
3000
2950

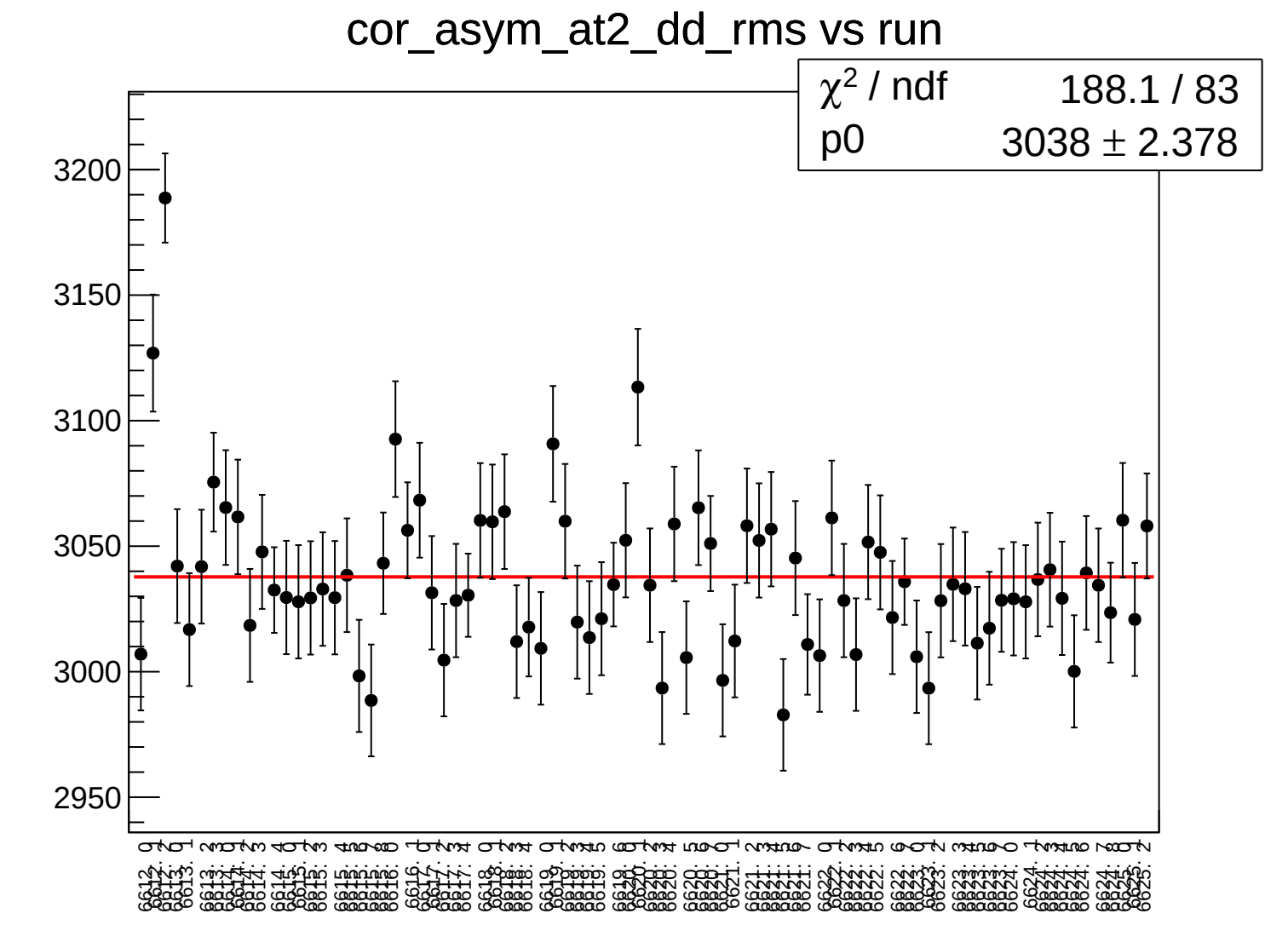

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 74.67 / 83
p0 1445 ± 3945
pull
Entries 84
Mean −78.81
Std Dev 0

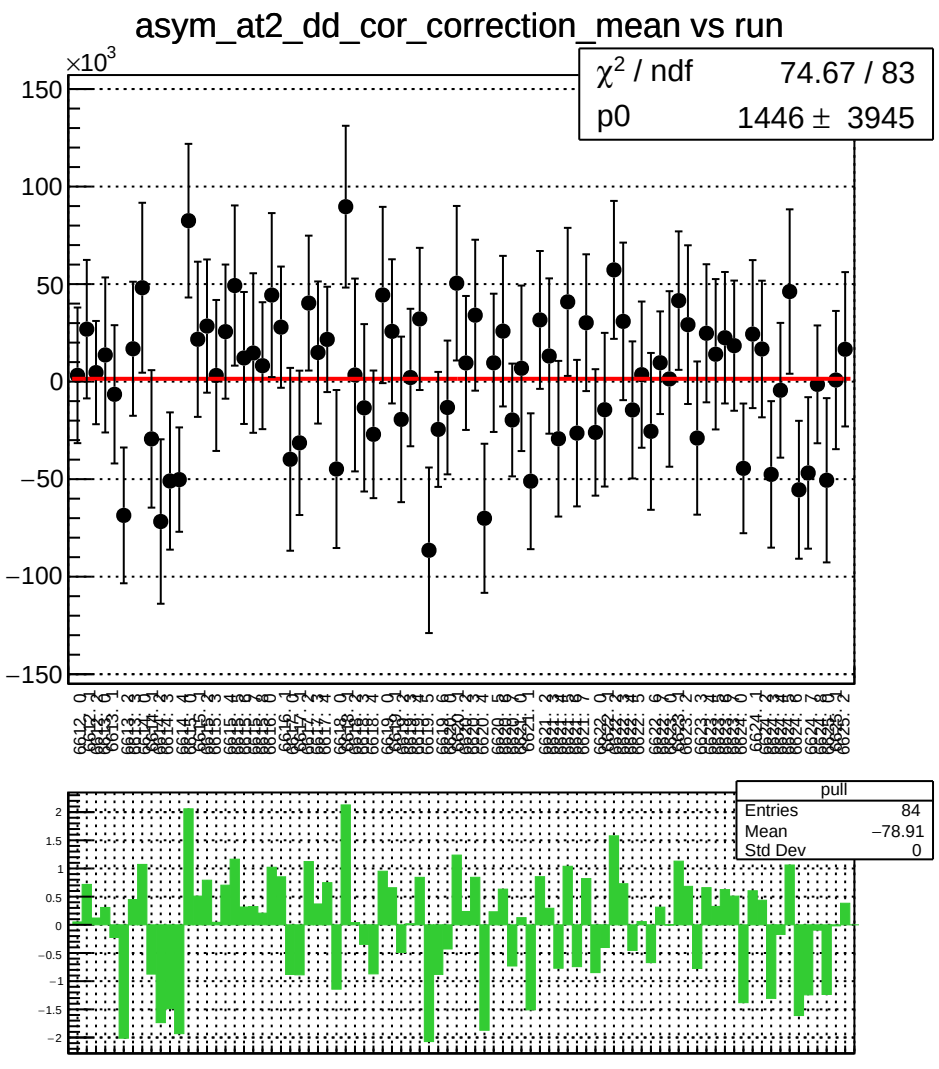

pull1D
Entries 84
Mean 0.01074
Std Dev 0.9428

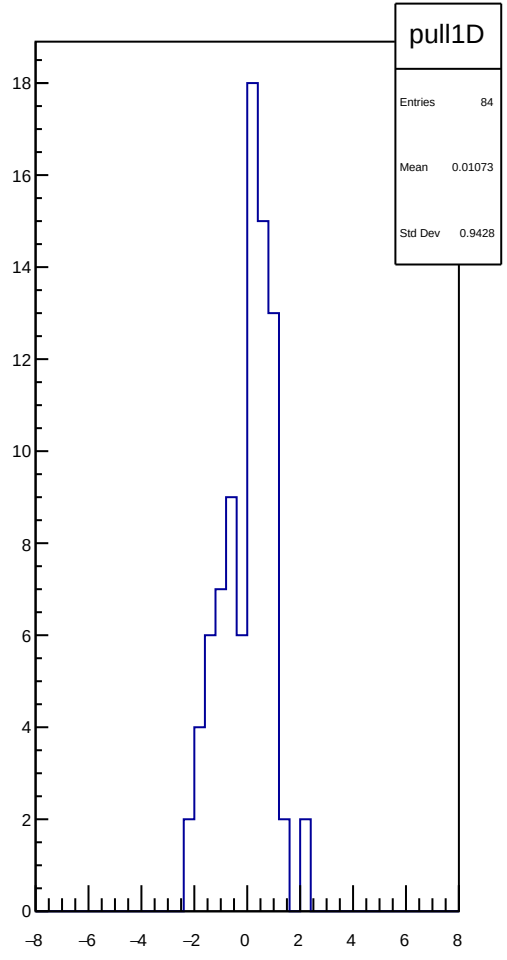

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 1.121e+04 / 83
p0 3552 ± 2.79
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

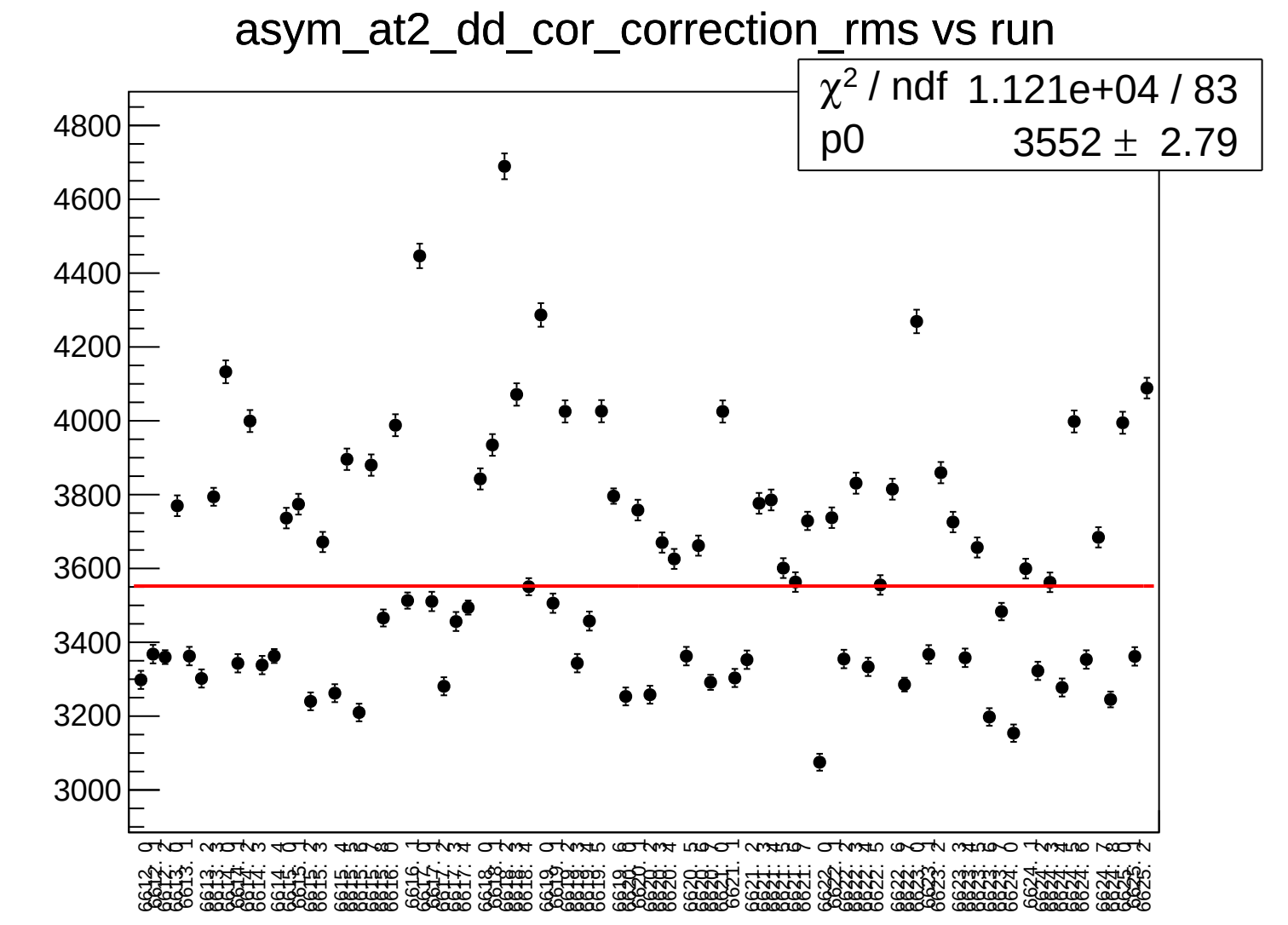

cor_asym_at2_dd_mean vs run
×10^3
χ² / ndf 82.95 / 83
p0 −88.48 ± 3362
100
50
0
−50
−100
pull
Entries 84
Mean 460.8
Std Dev 0
2
1
0
−1
−2

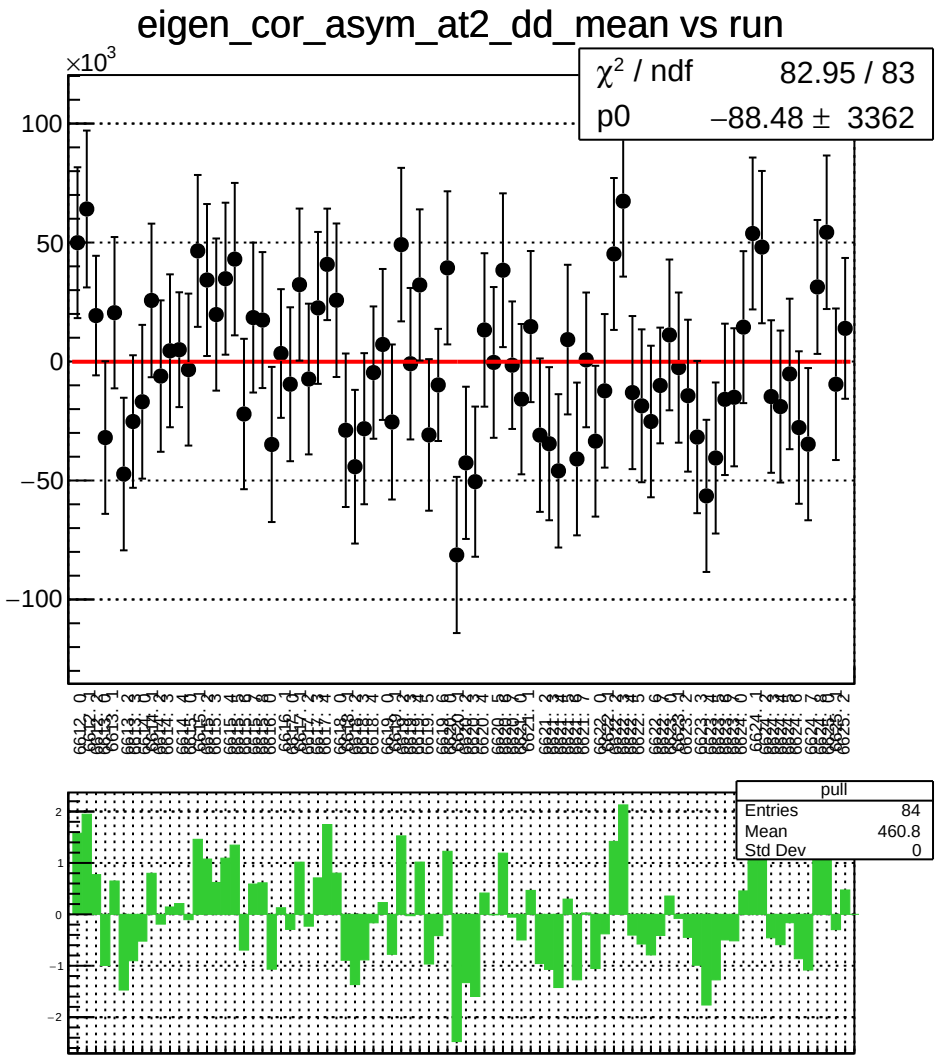

pull1D
Entries 84
Mean −0.009017
Std Dev 0.9937
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

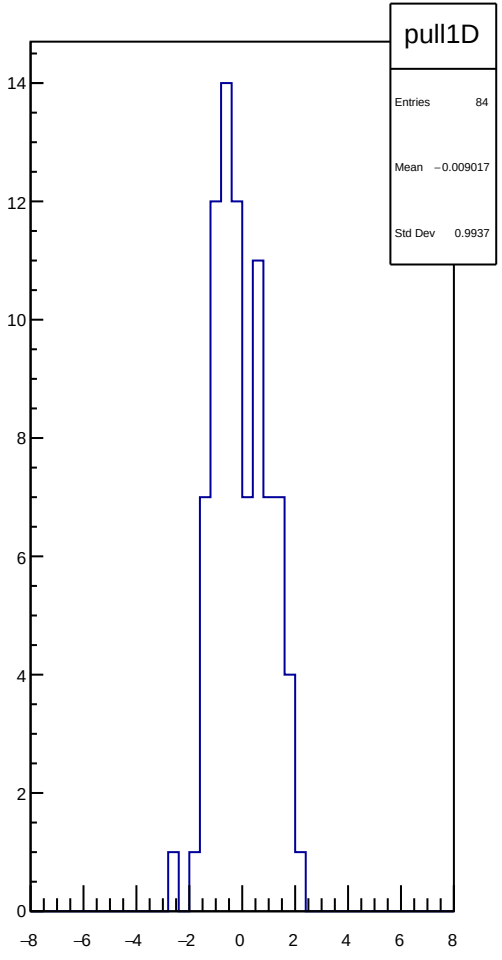

cor_asym_at2_dd_rms vs run
χ² / ndf 188.1 / 83
p0 3038 ± 2.378
3200
3150
3100
3050
3000
2950

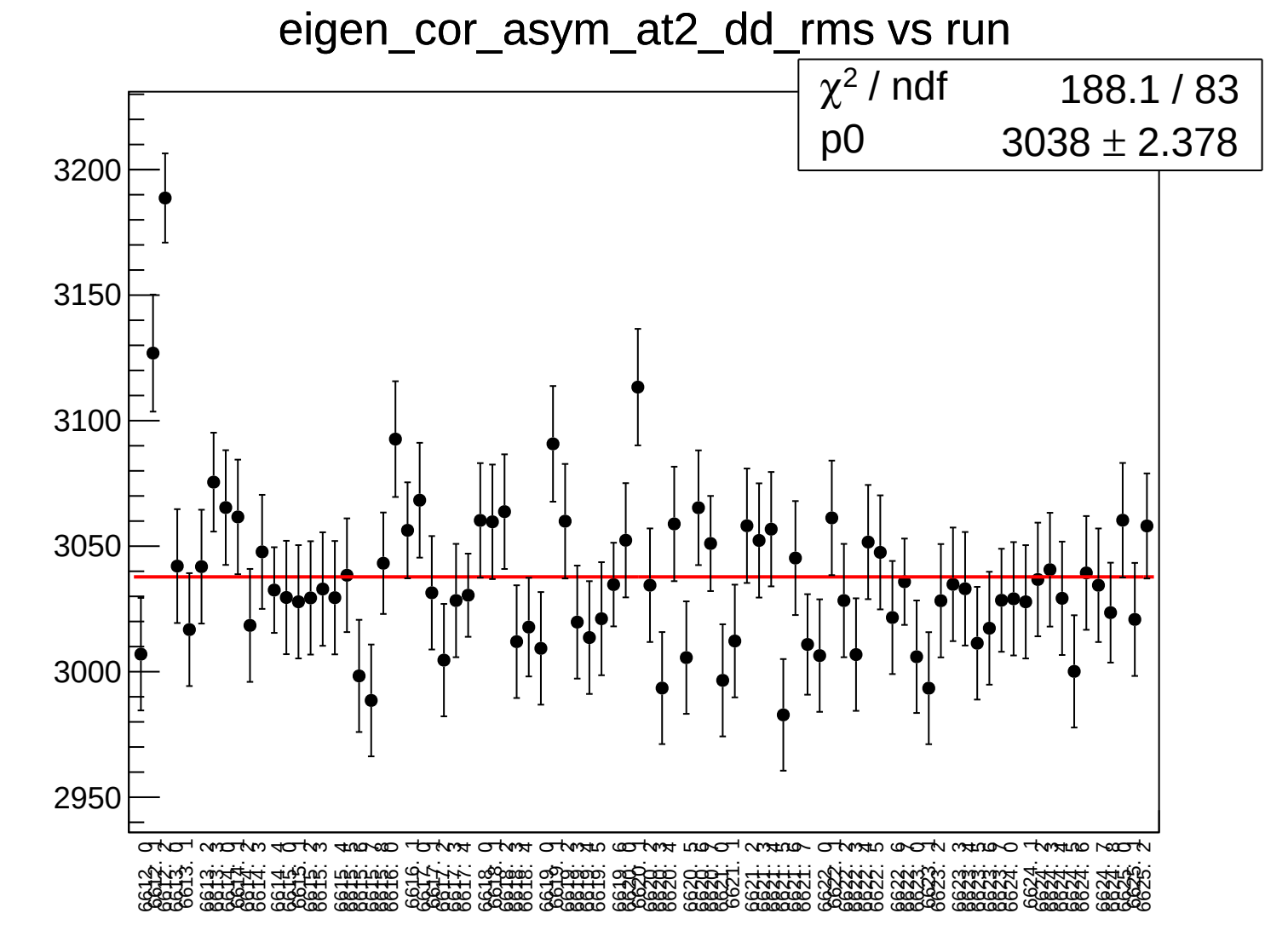

asym_at2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 74.67 / 83
p0 1446 ± 3945
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −78.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

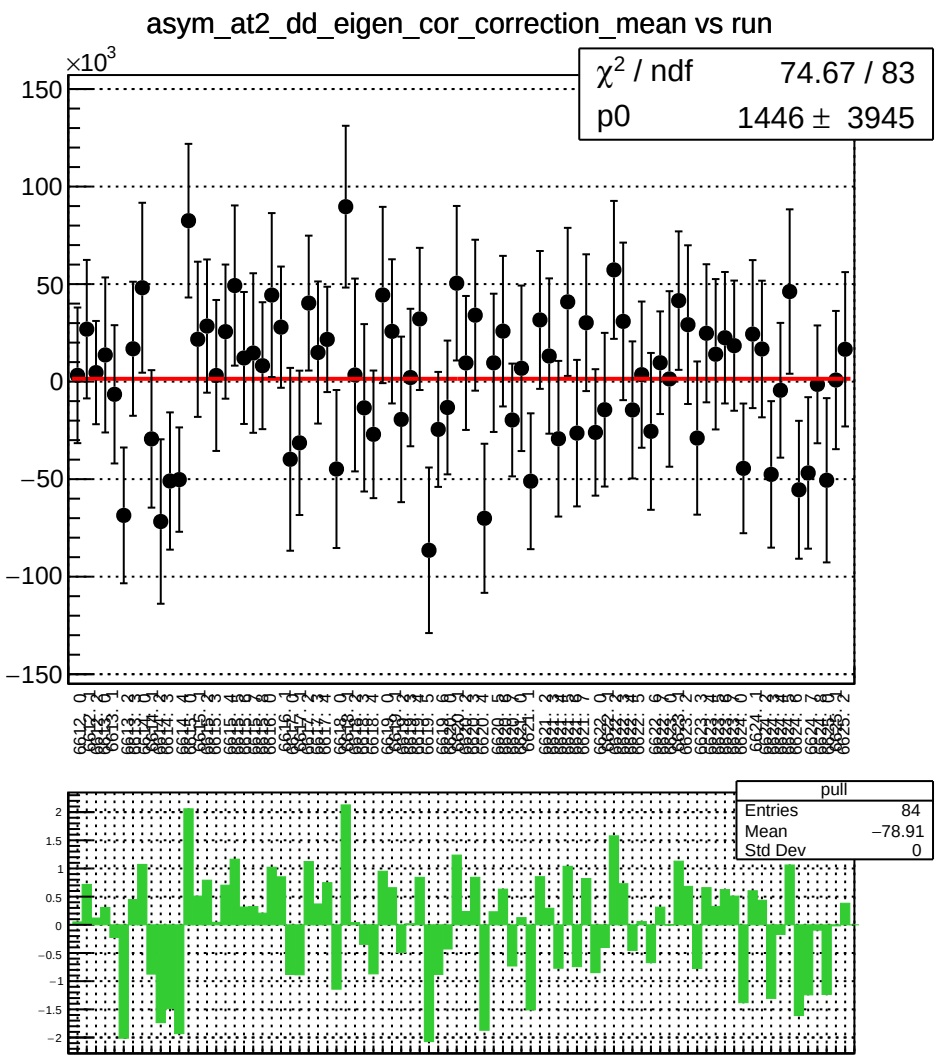

pull1D
Entries 84
Mean 0.01073
Std Dev 0.9428
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

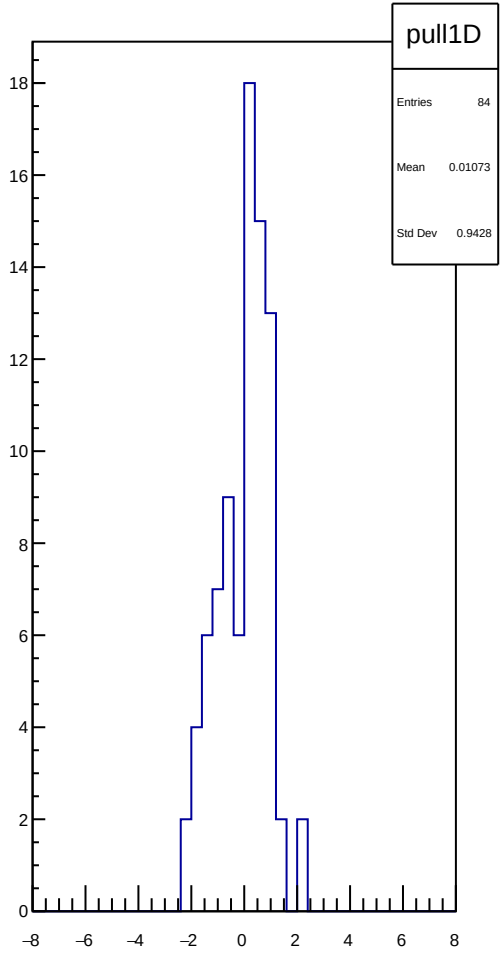

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 1.121e+04 / 83
p0 3552 ± 2.79
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

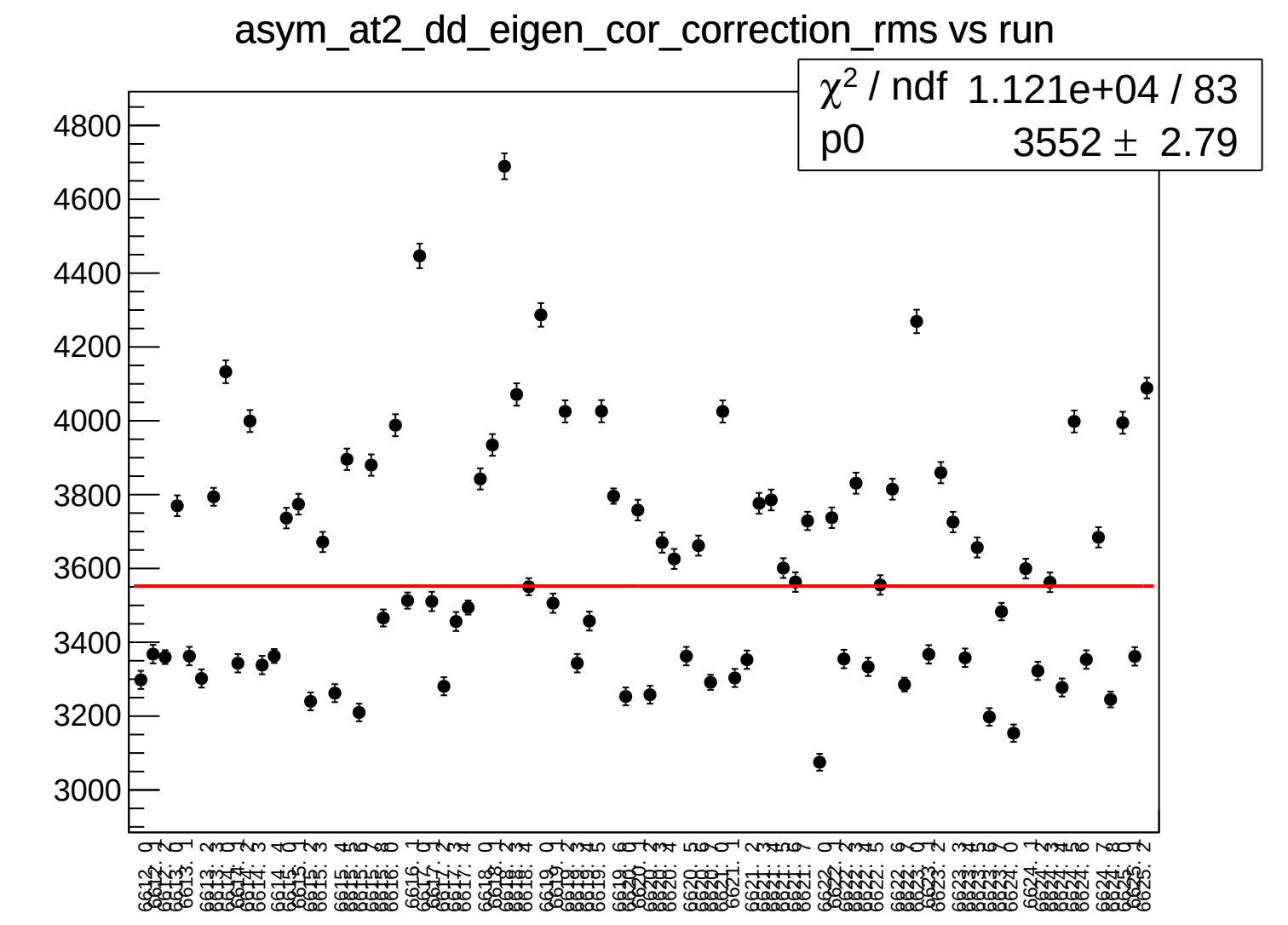

eigen_cor_asym_at2_dd_mean vs run
×10^3
χ² / ndf 82.95 / 83
p0 −88.48 ± 3362
100
50
0
−50
−100
pull
Entries 84
Mean 460.8
Std Dev 0
2
1
0
−1
−2

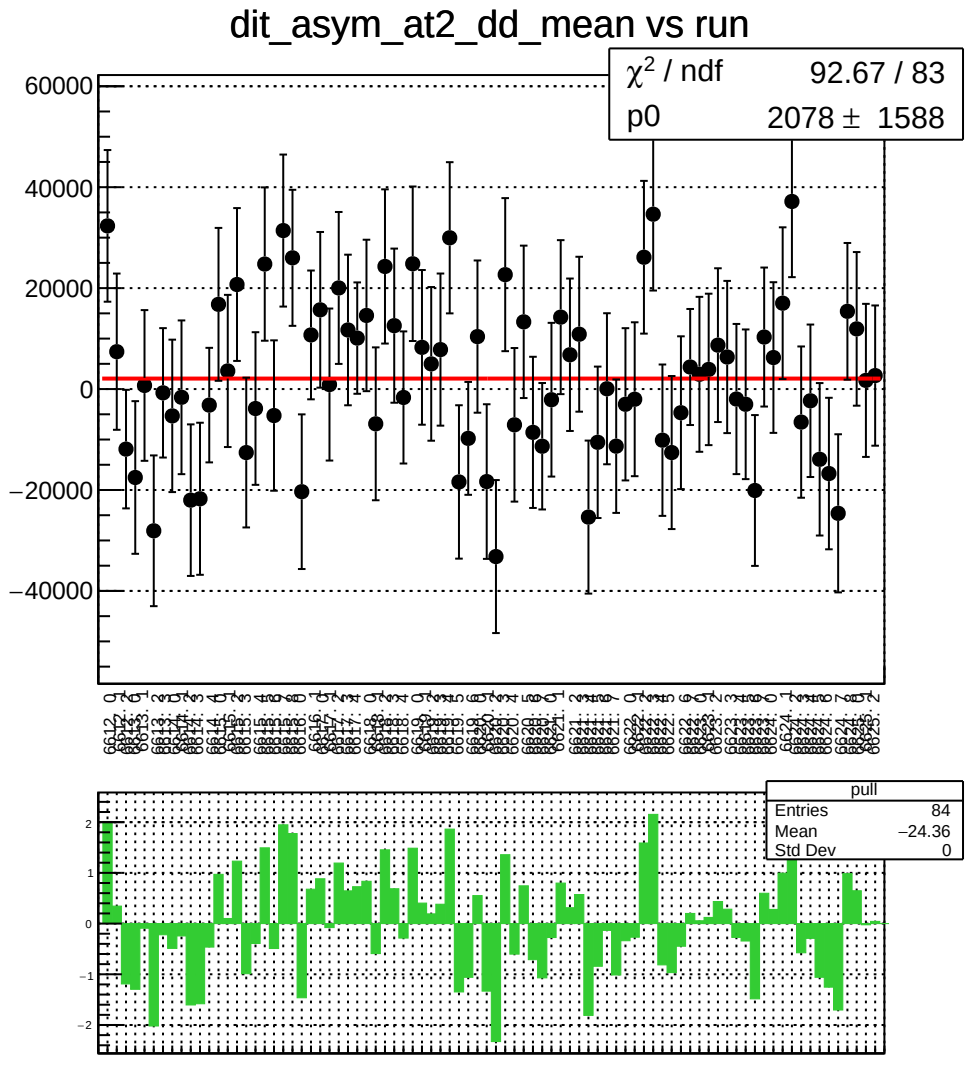

pull1D
Entries 84
Mean −0.009017
Std Dev 0.9937
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

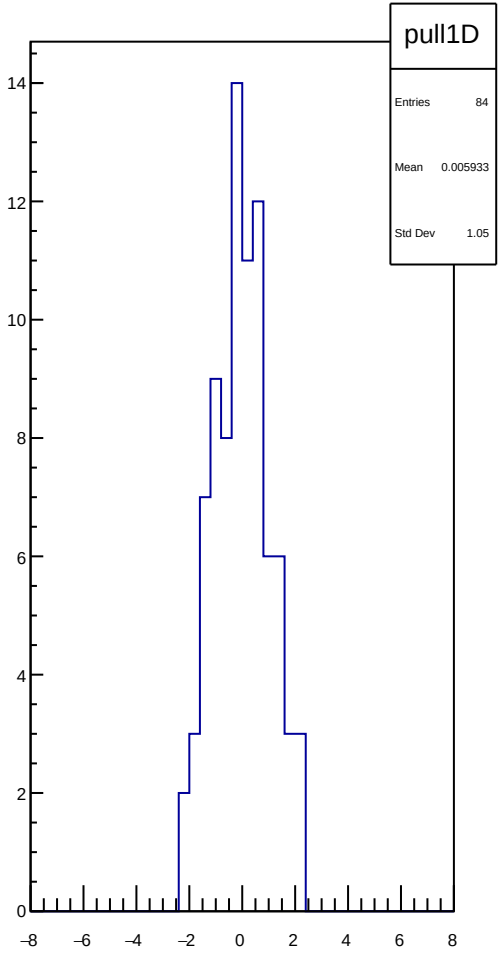

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 188.1 / 83
p0 3038 ± 2.378
3200
3150
3100
3050
3000
2950

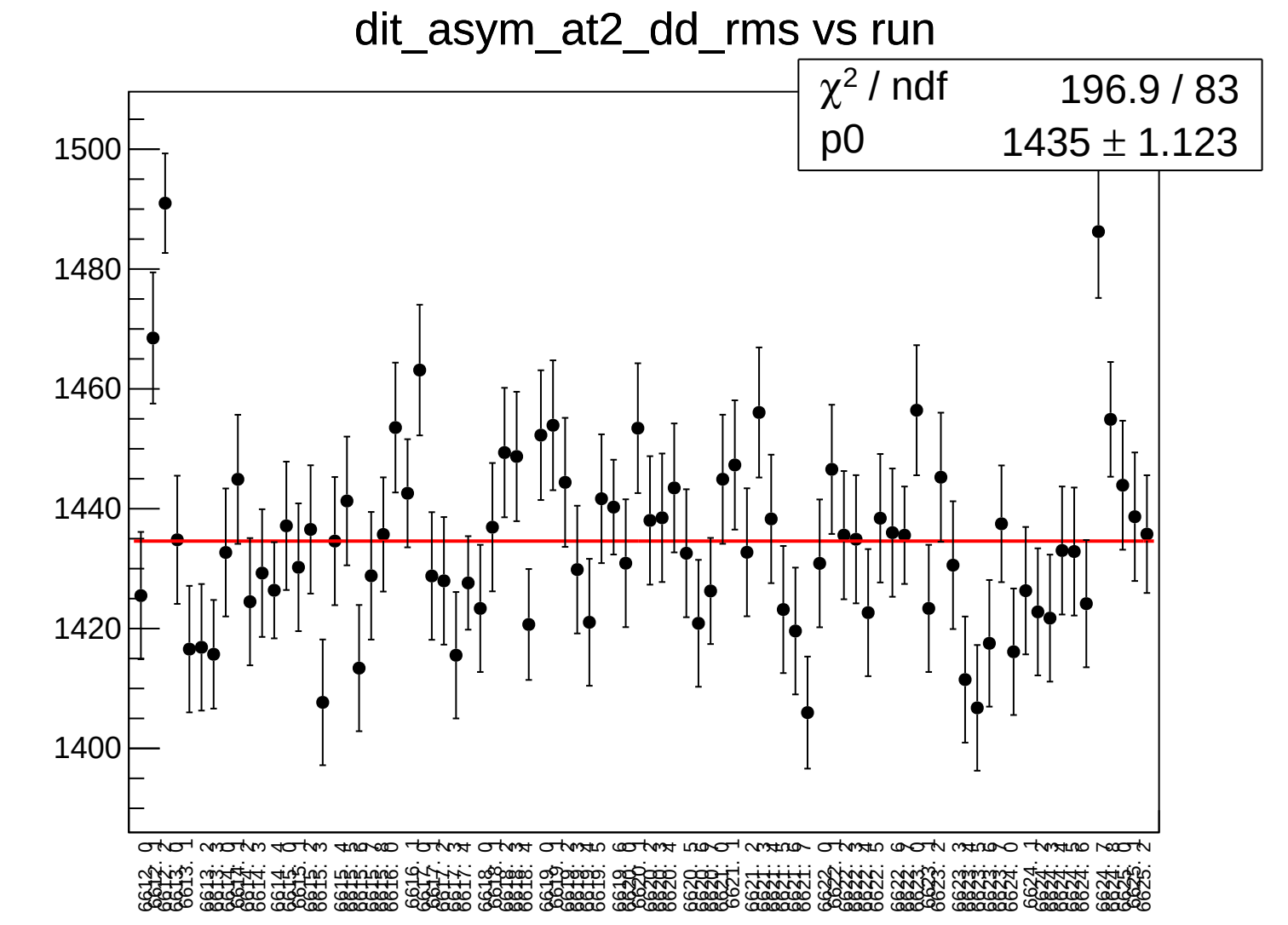

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.67 / 83
p0 1446 ± 3945
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −78.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

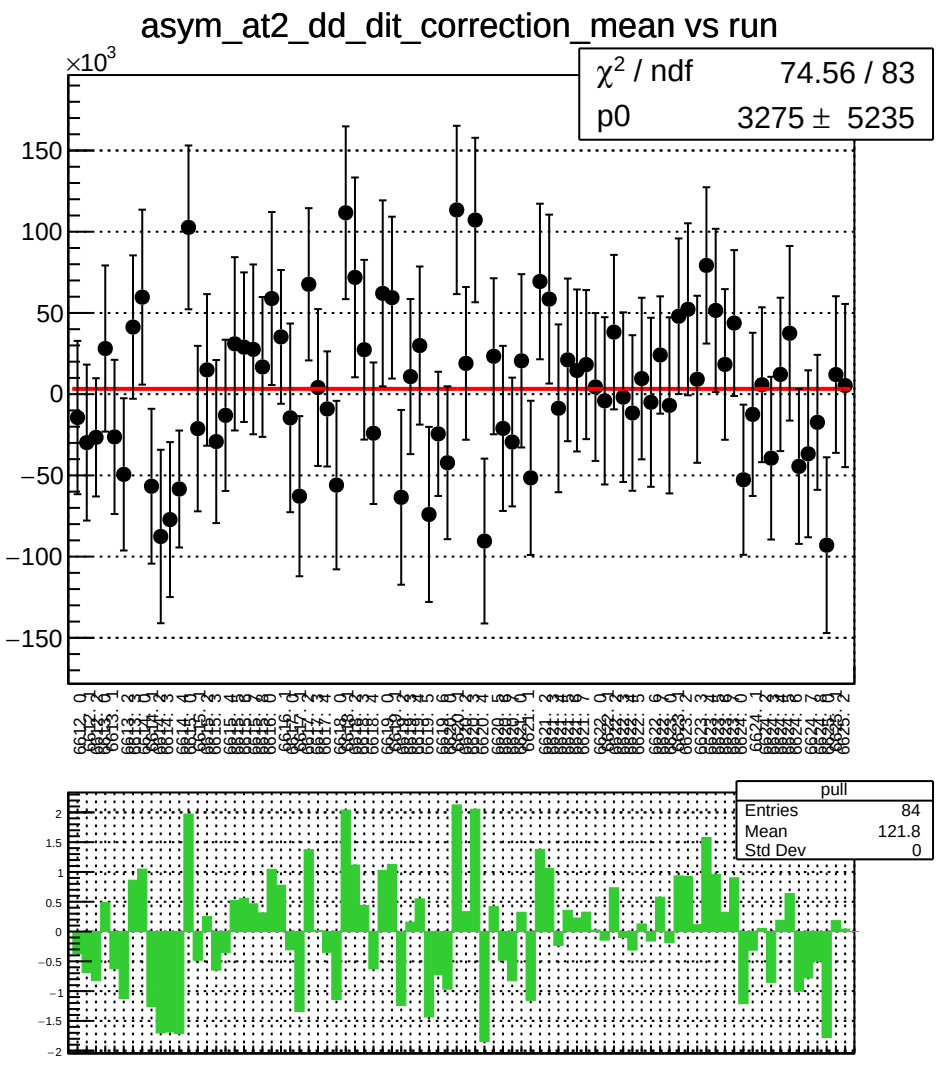

pull1D
Entries 84
Mean 0.01073
Std Dev 0.9428
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

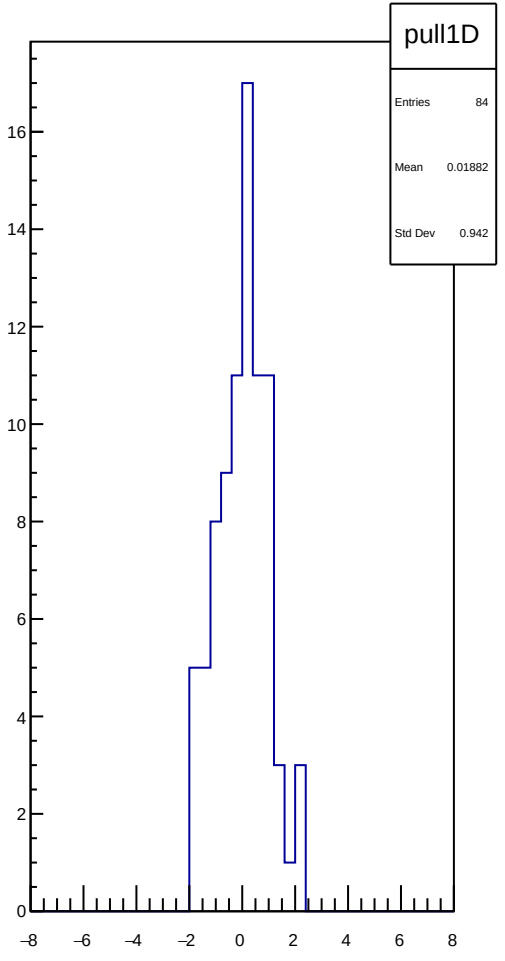

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.121e+04 / 83
p0 3552 ± 2.79
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

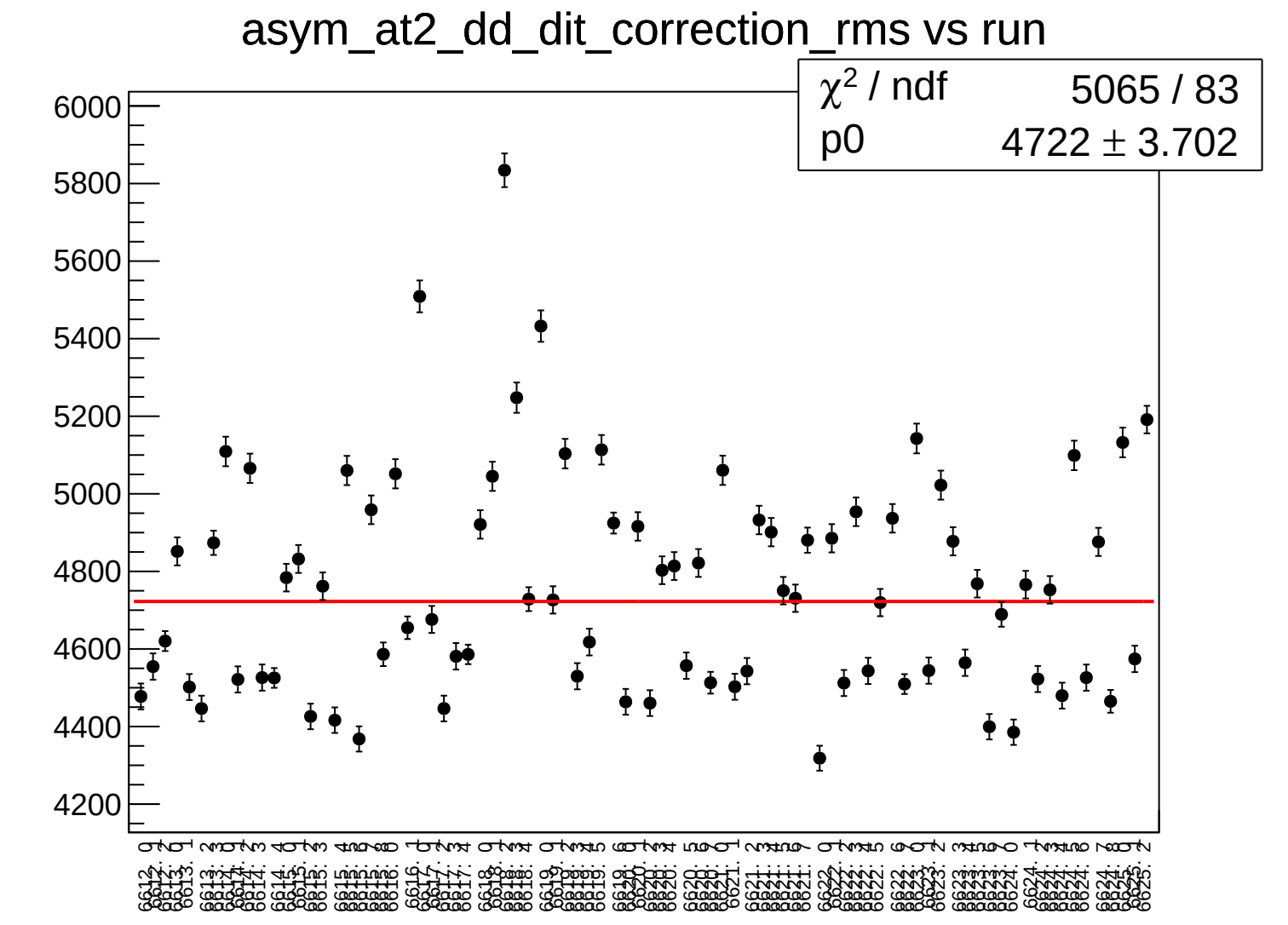

dit_asym_at2_dd_mean vs run
χ² / ndf 92.67 / 83
p0 2078 ± 1588
pull
Entries 84
Mean −24.36
Std Dev 0

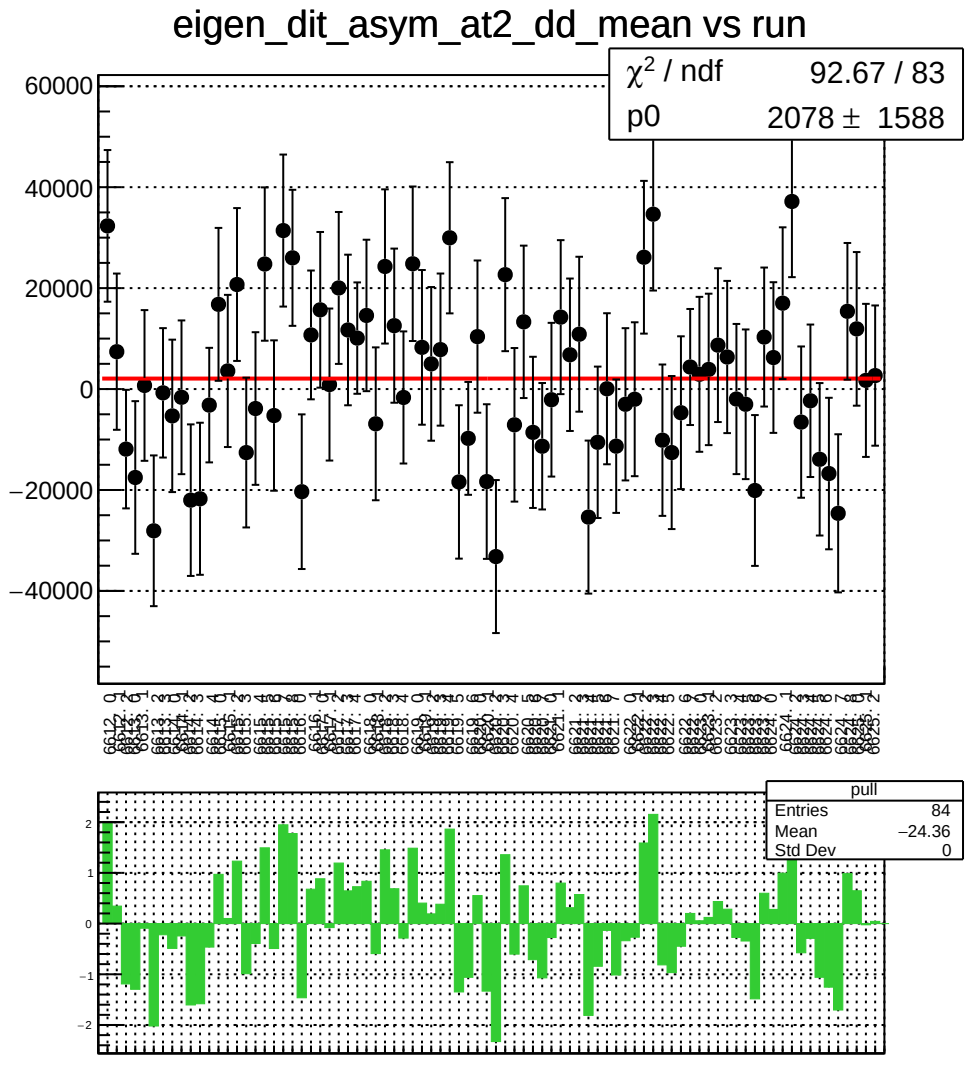

pull1D
Entries 84
Mean 0.005933
Std Dev 1.05

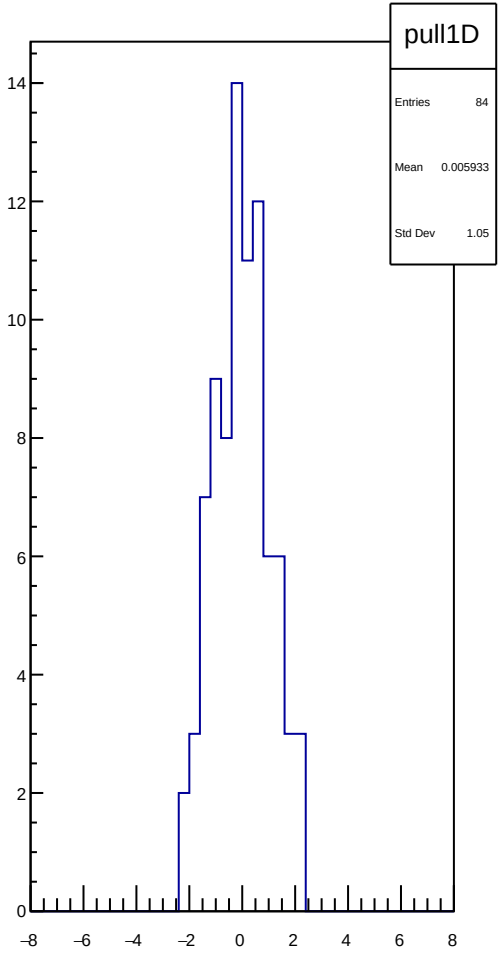

dit_asym_at2_dd_rms vs run
χ² / ndf 196.9 / 83
p0 1435 ± 1.123
1500
1480
1460
1440
1420
1400

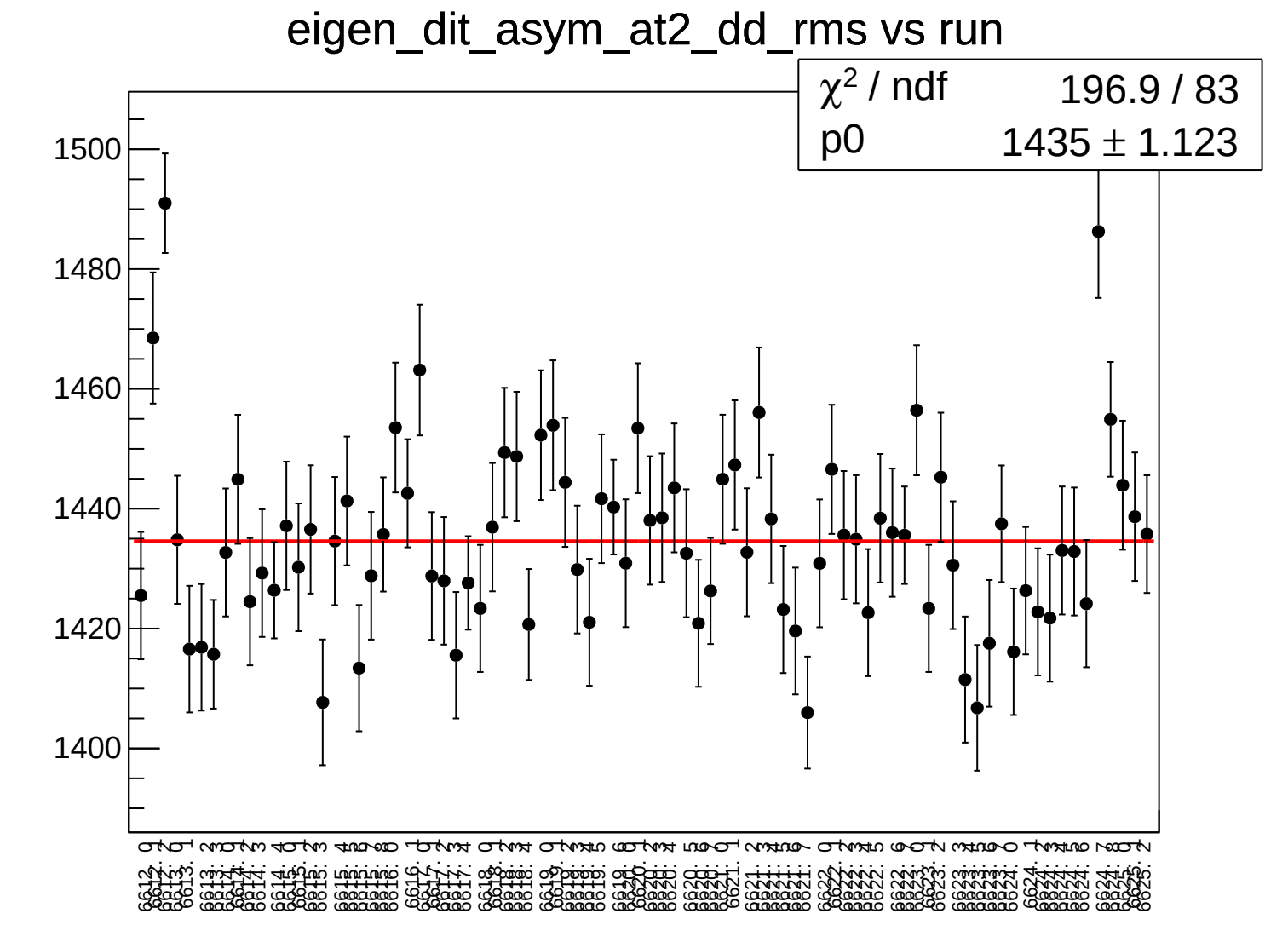

asym_at2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 74.56 / 83
p0 3275 ± 5235
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 121.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

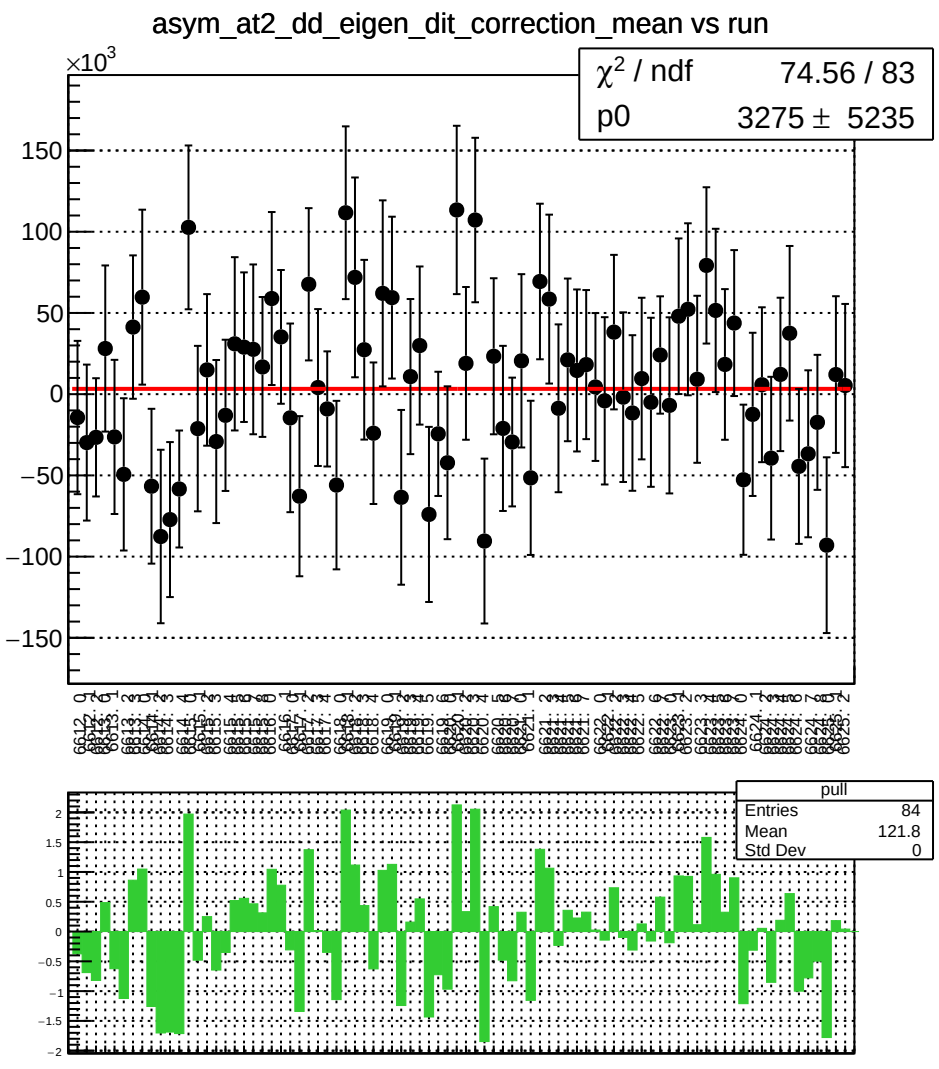

pull1D
Entries 84
Mean 0.01882
Std Dev 0.942
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

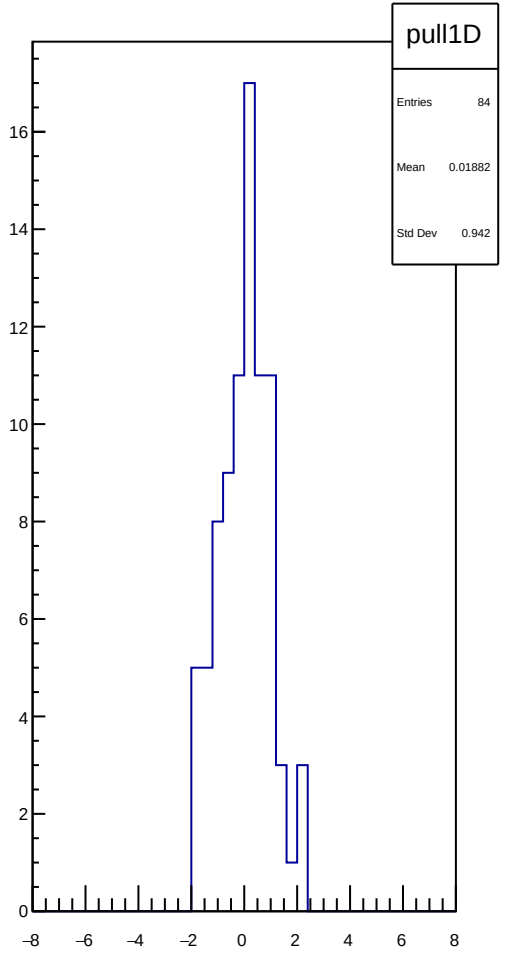

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 5065 / 83
p0 4722 ± 3.702
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

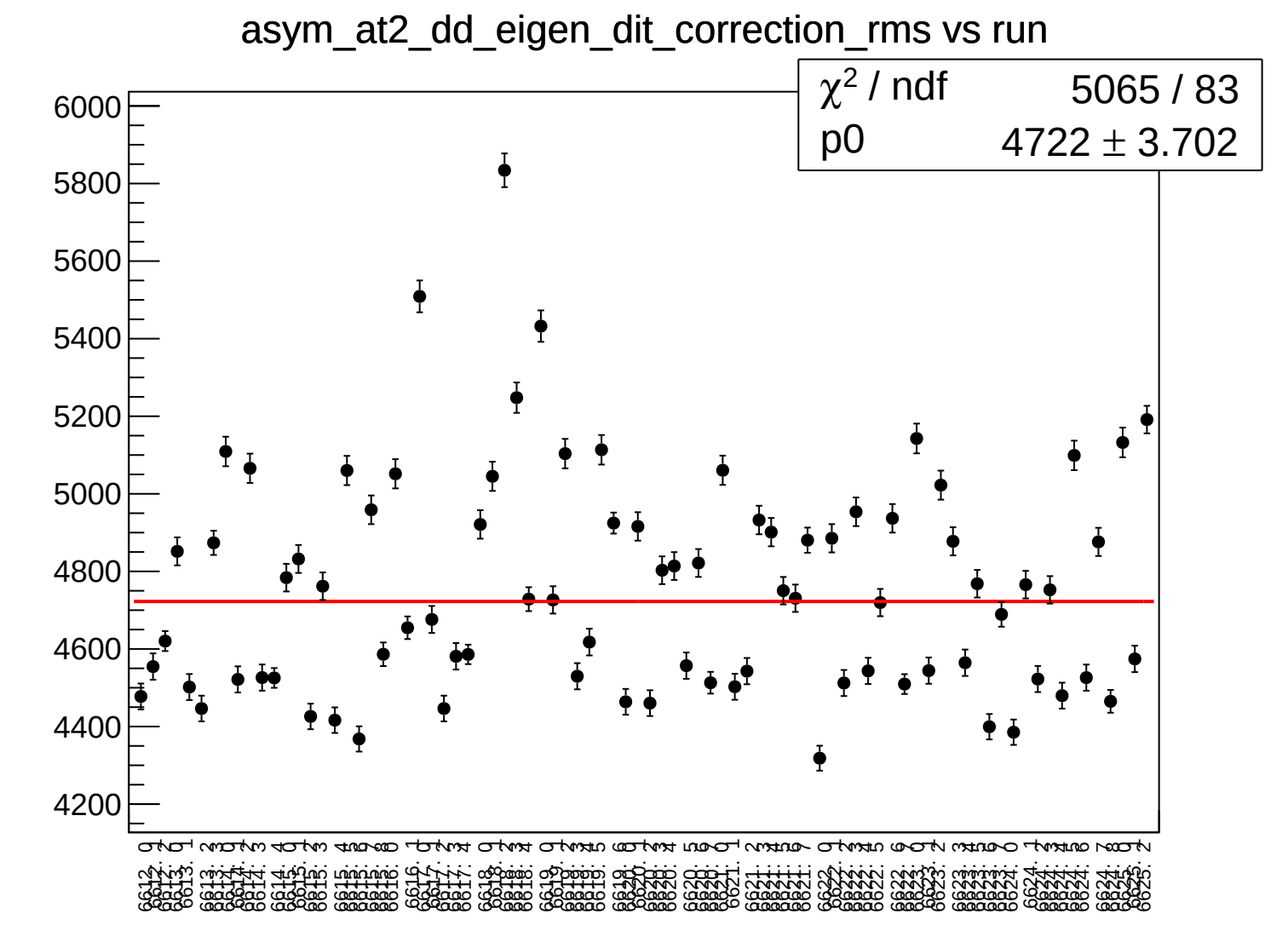

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 92.67 / 83
p0 2078 ± 1588
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −24.36
Std Dev 0
2
1
0
−1
−2

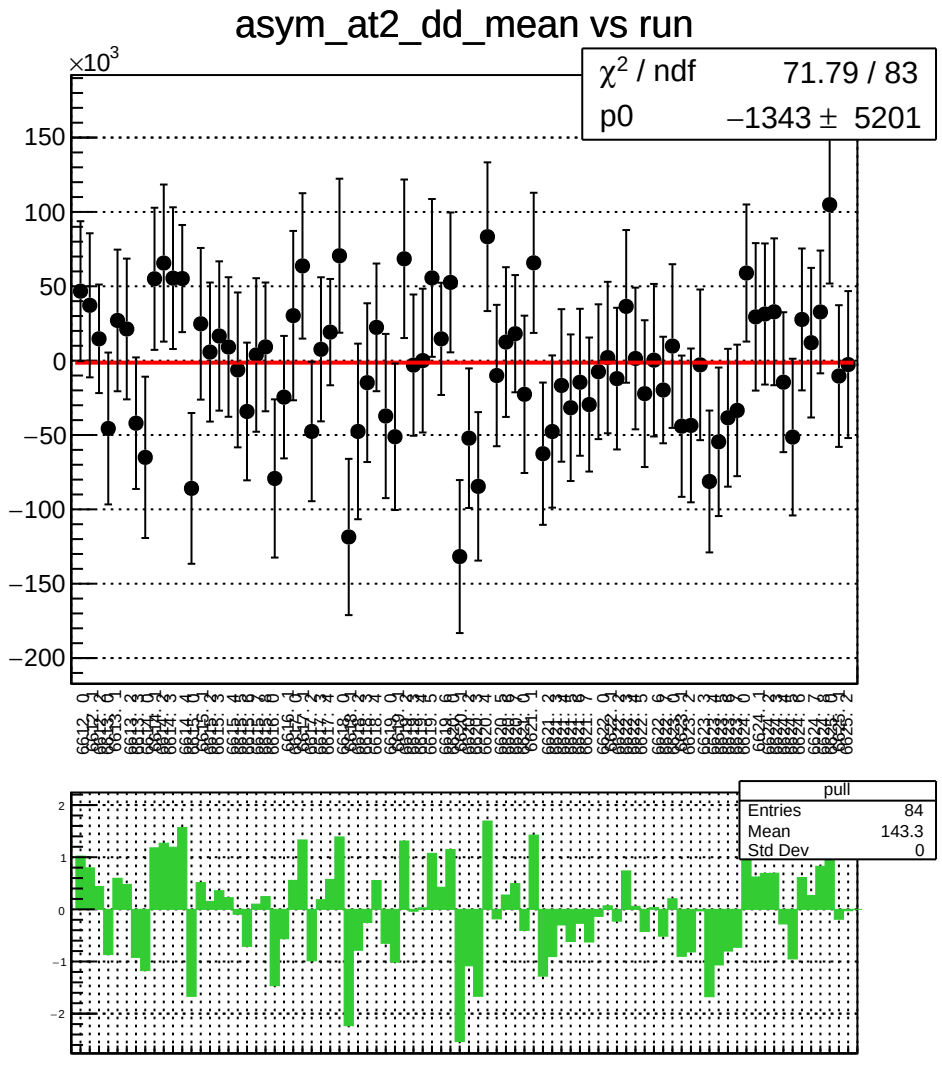

pull1D
Entries 84
Mean 0.005933
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

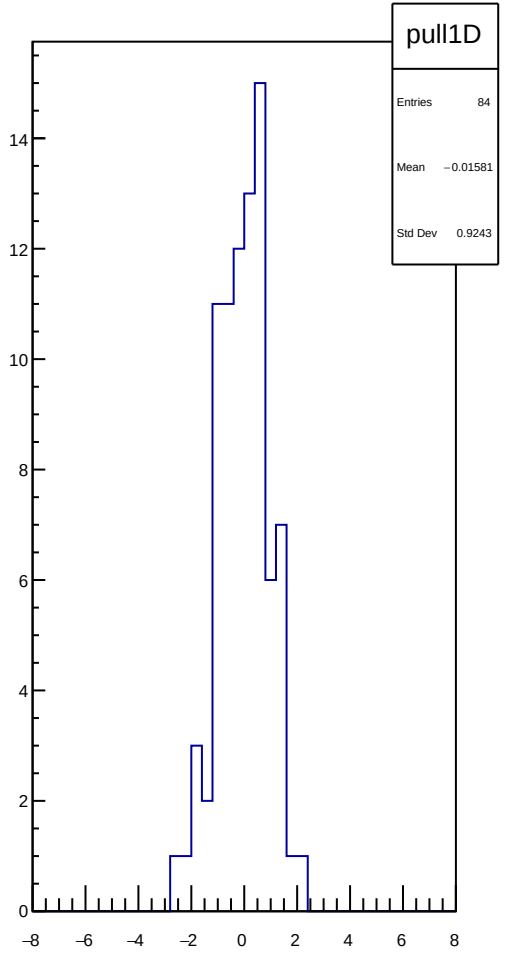

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 196.9 / 83
p0 1435 ± 1.123
1500
1480
1460
1440
1420
1400

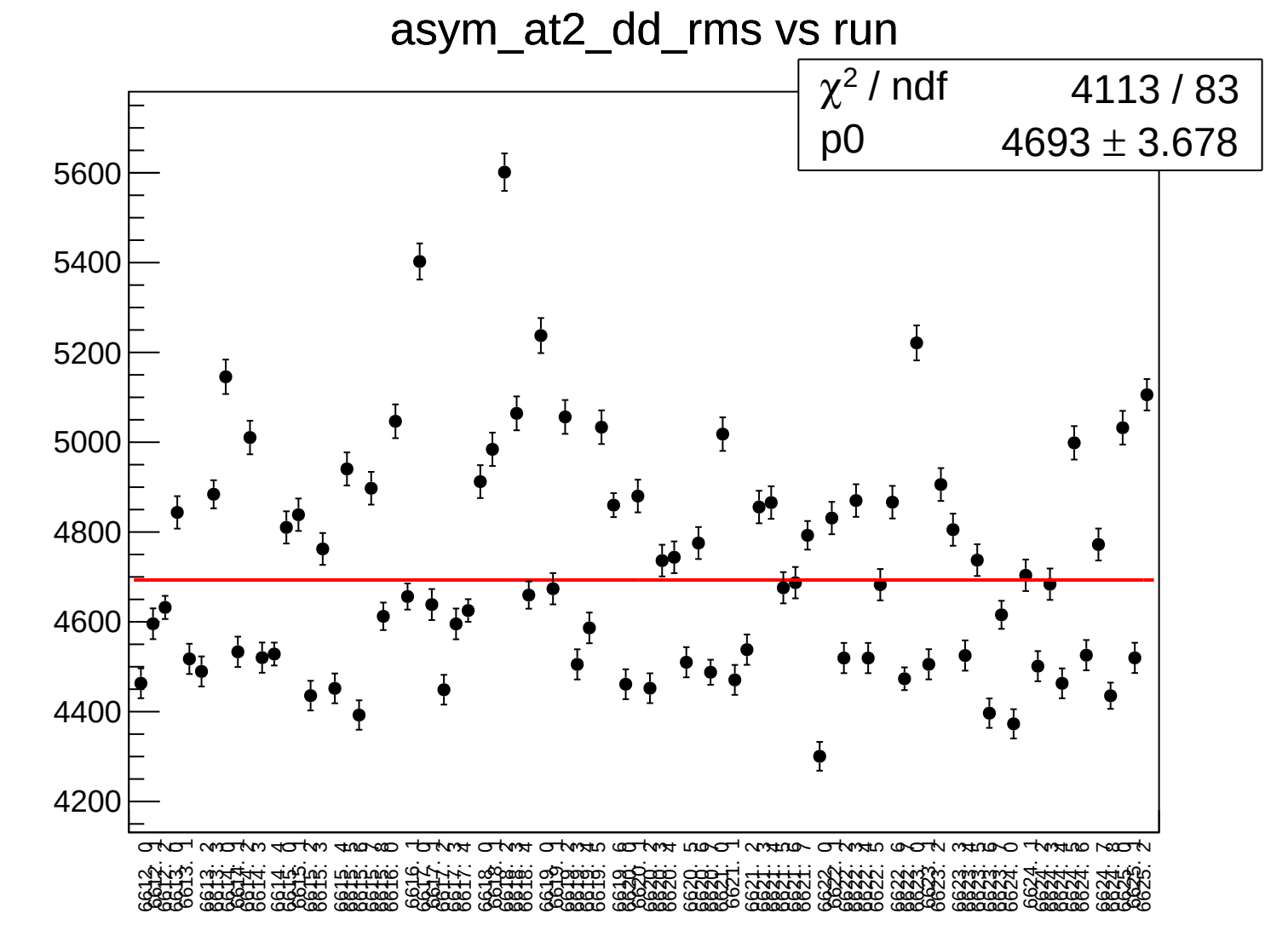

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 74.56 / 83
p0 3275 ± 5235
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 121.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

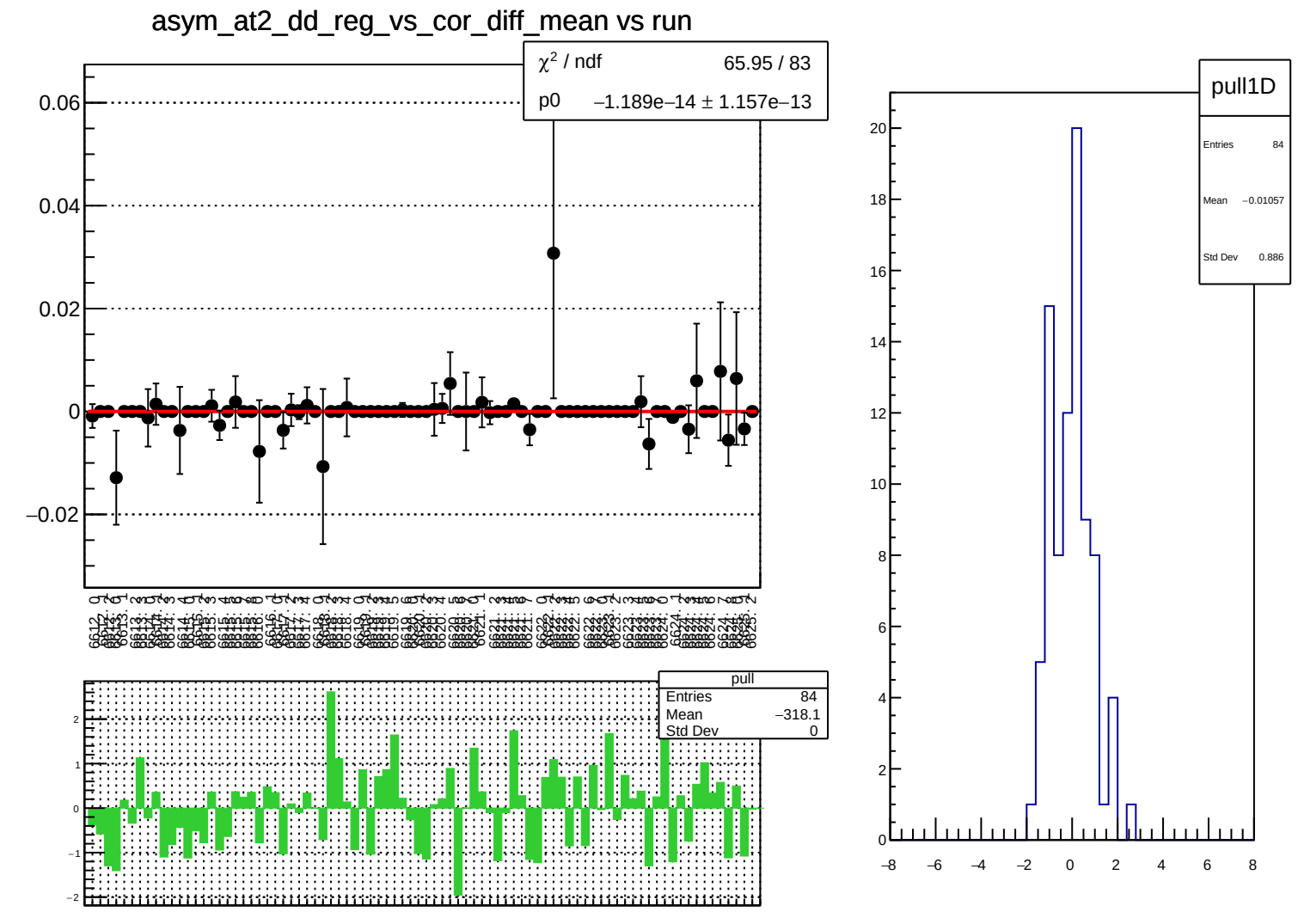

pull1D
Entries 84
Mean 0.01882
Std Dev 0.942
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

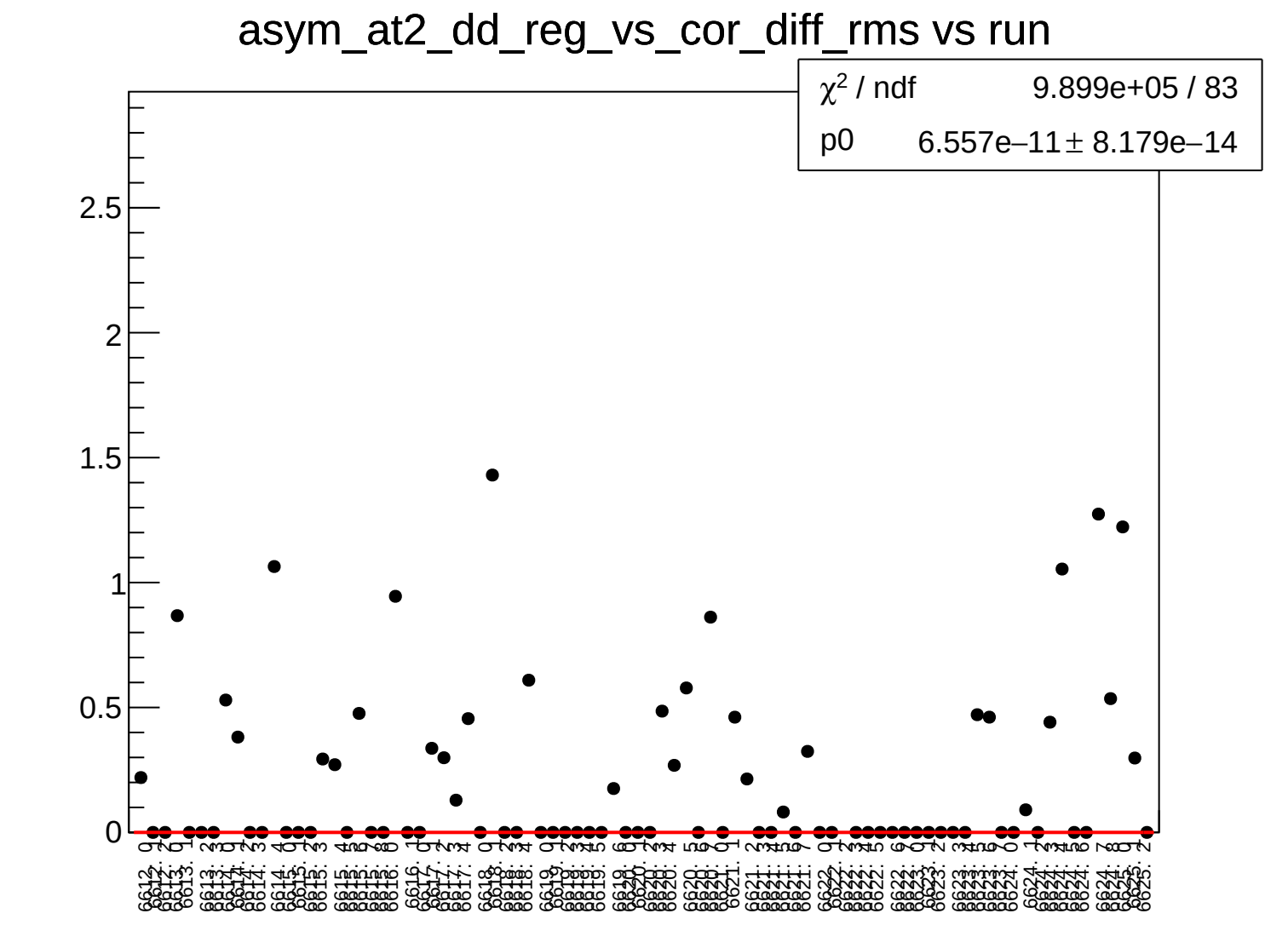

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5065 / 83
p0 4722 ± 3.702
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

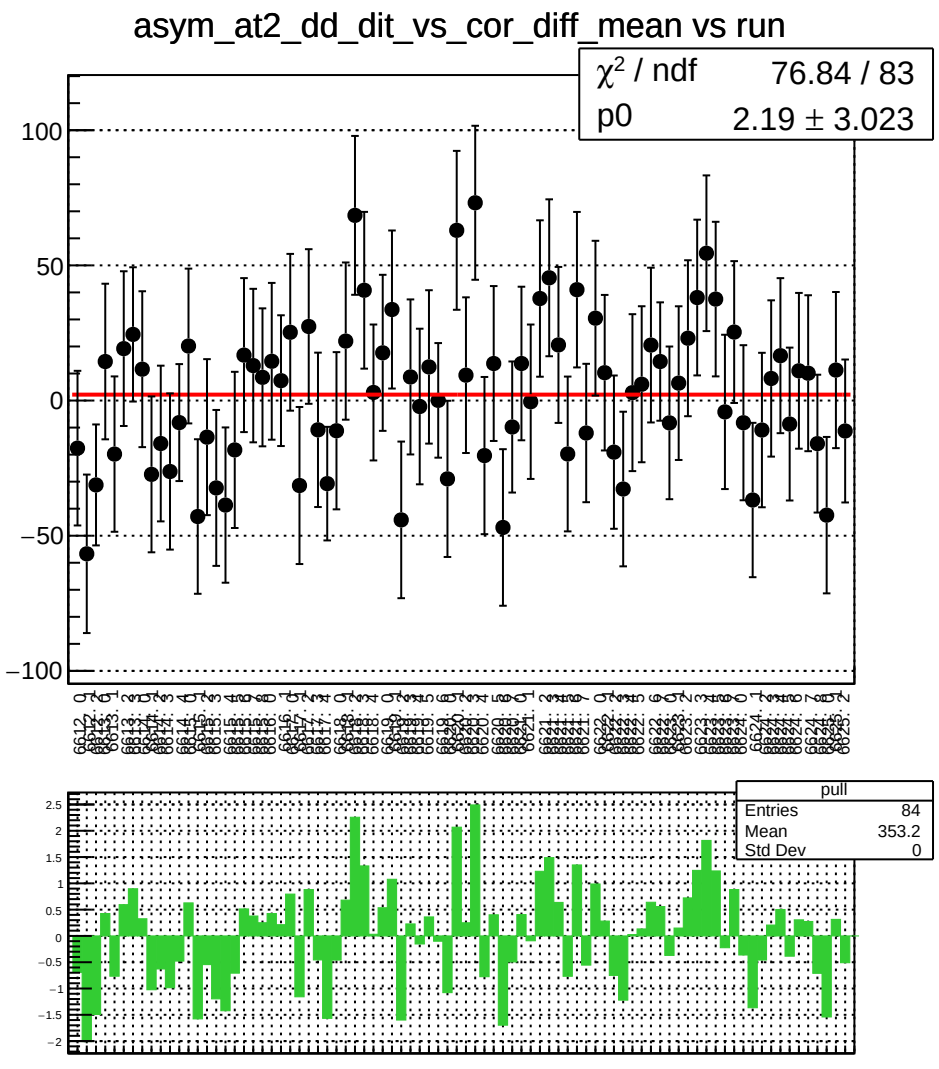

asym_at2_dd_mean vs run
×10^3
χ² / ndf 71.79 / 83
p0 −1343 ± 5201
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 143.3
Std Dev 0
2
1
0
−1
−2

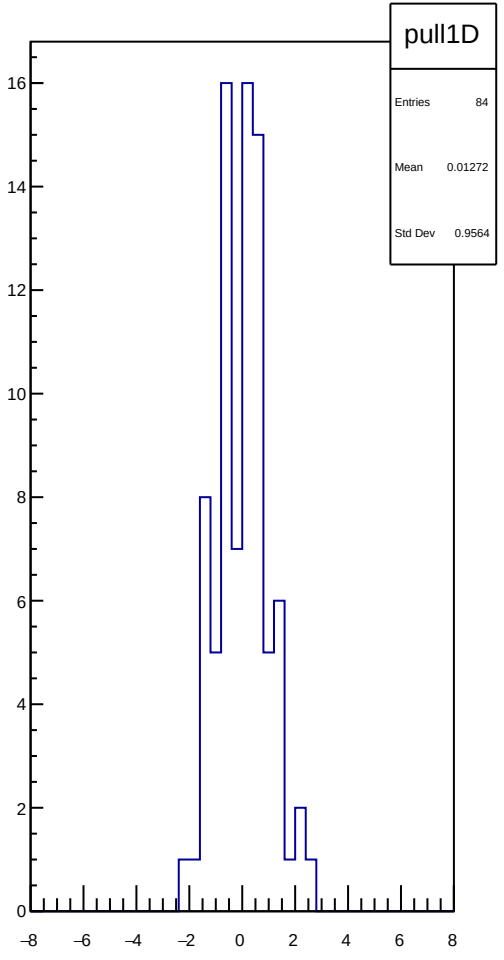

pull1D
Entries 84
Mean −0.01581
Std Dev 0.9243
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

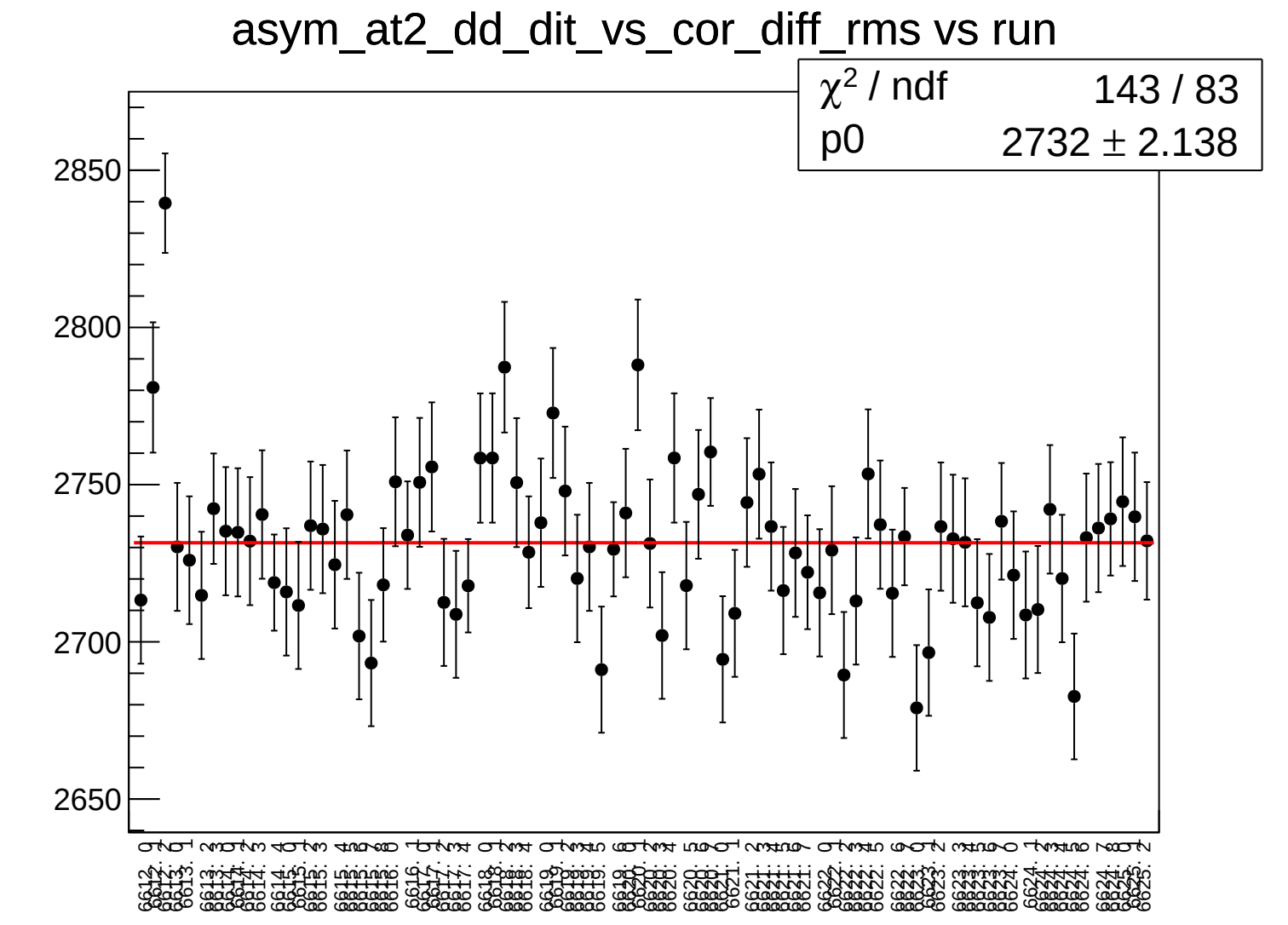

asym_at2_dd_rms vs run
χ² / ndf 4113 / 83
p0 4693 ± 3.678
5600
5400
5200
5000
4800
4600
4400
4200

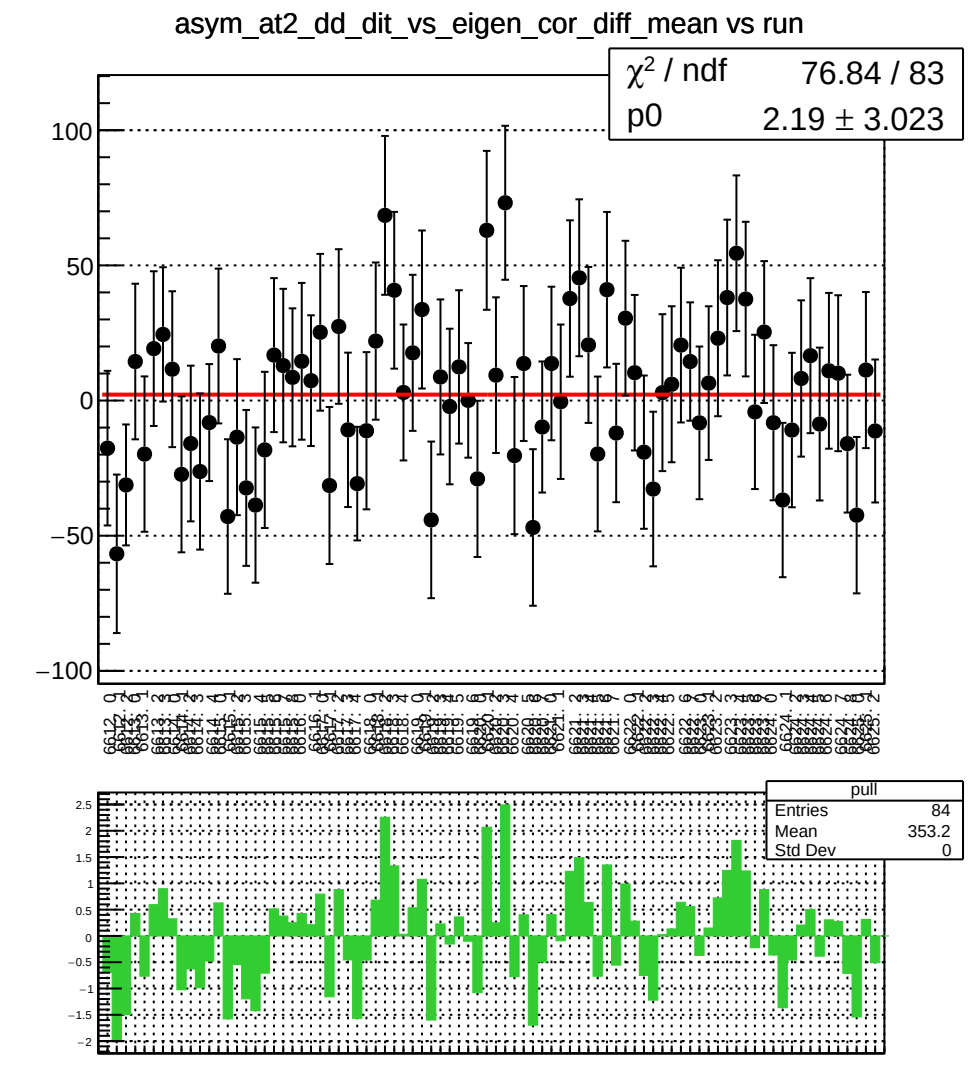

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 65.95 / 83
p0 −1.189e−14 ± 1.157e−13
0.06
0.04
0.02
0
−0.02
pull
Entries 84
Mean −318.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01057
Std Dev 0.886
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

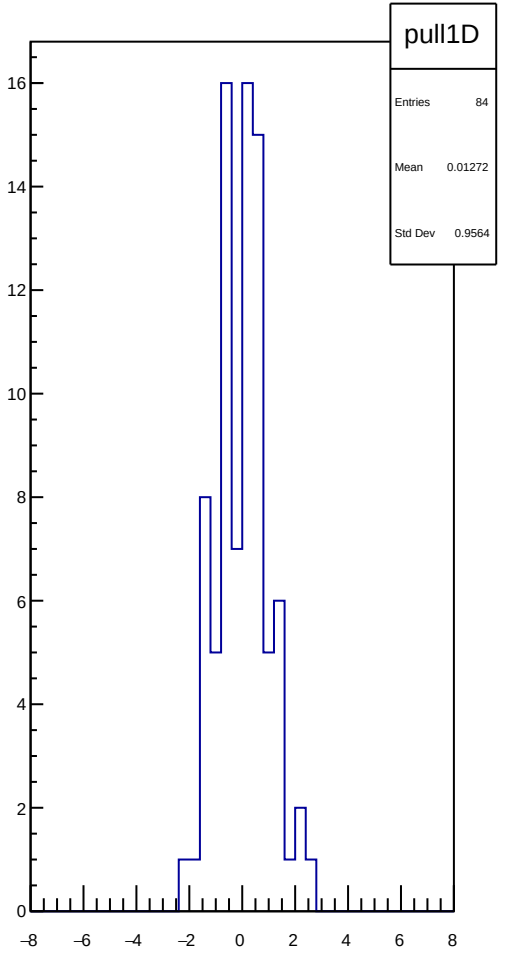

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.899e+05 / 83
p0 6.557e−11 ± 8.179e−14
2.5
2
1.5
1
0.5
0

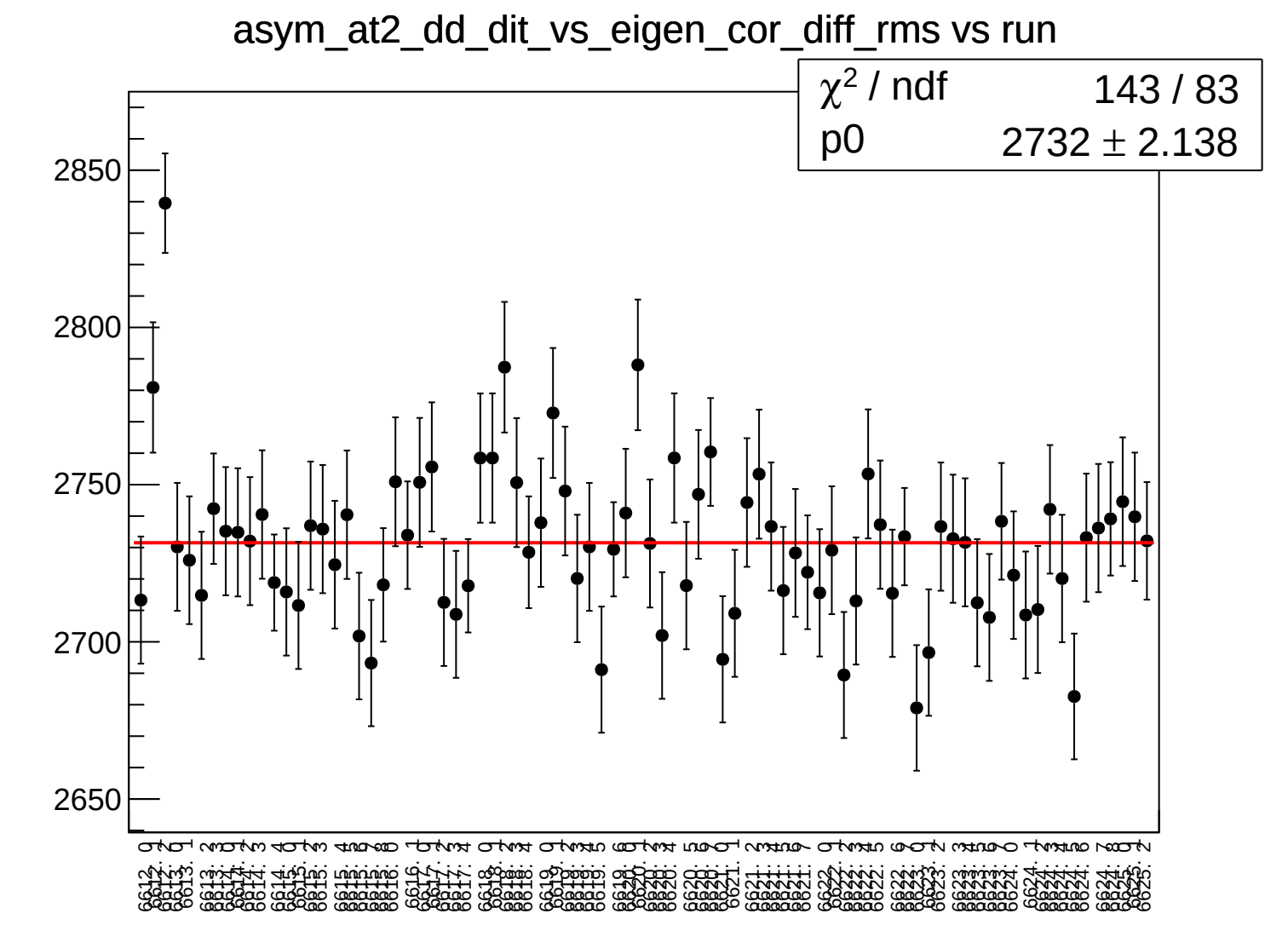

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.84 / 83
p0 2.19 ± 3.023
100
50
0
−50
−100
pull
Entries 84
Mean 353.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

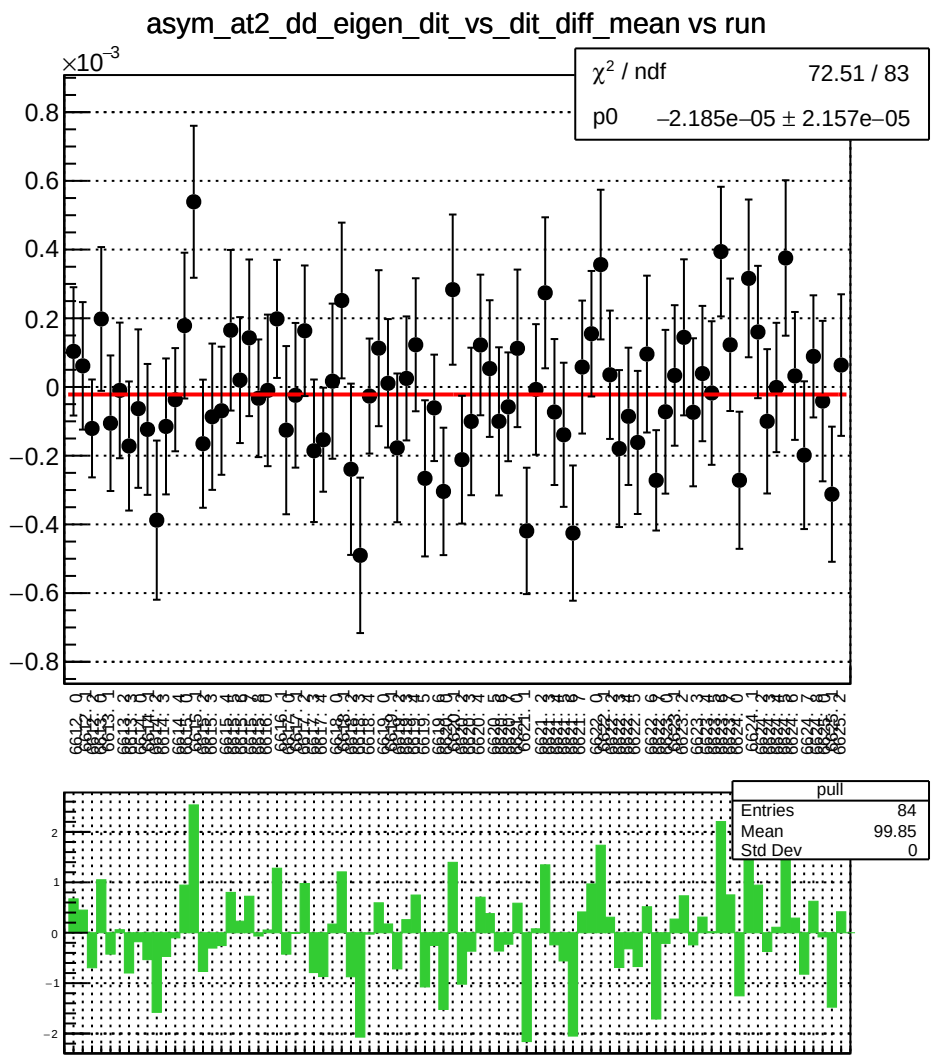

pull1D
Entries 84
Mean 0.01272
Std Dev 0.9564
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

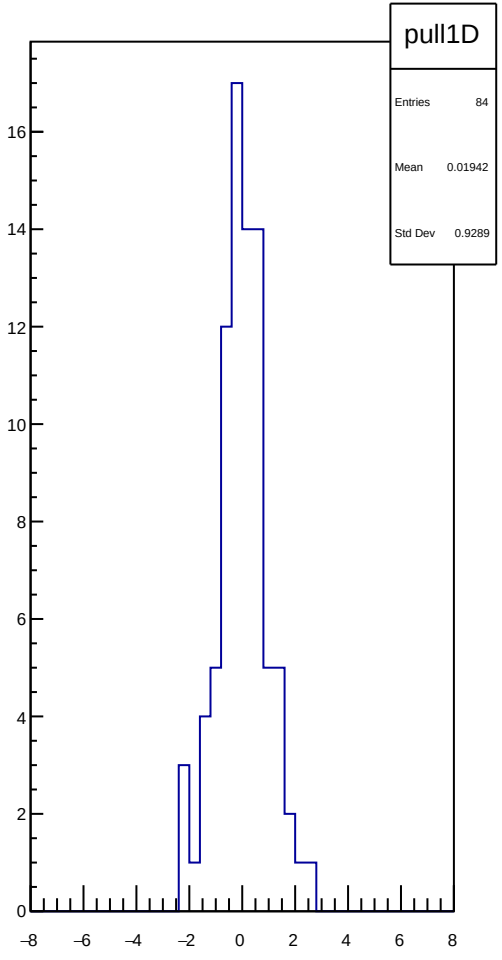

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 143 / 83
p0 2732 ± 2.138
2850
2800
2750
2700
2650

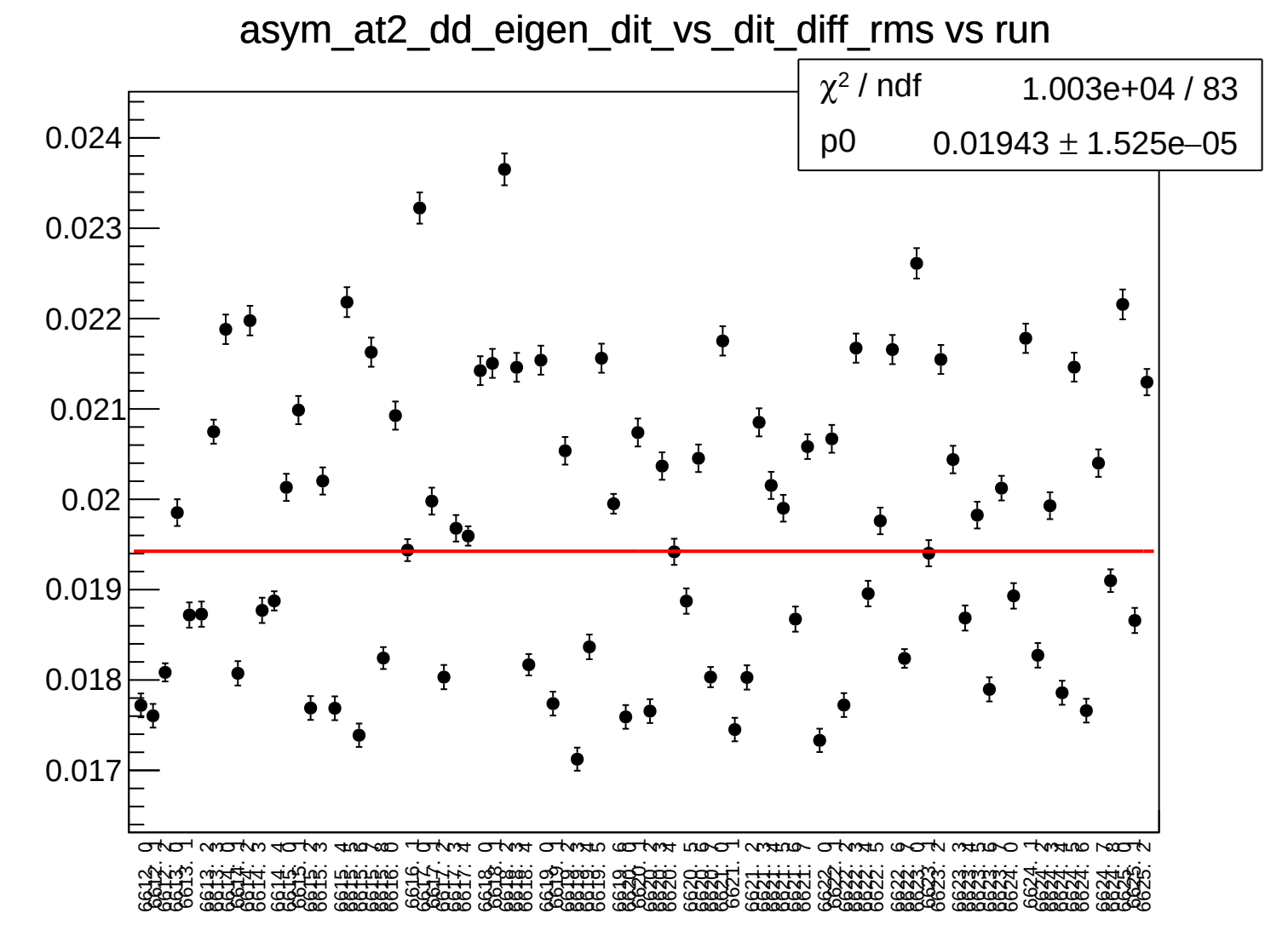

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.84 / 83
p0 2.19 ± 3.023
100
50
0
−50
−100
pull
Entries 84
Mean 353.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

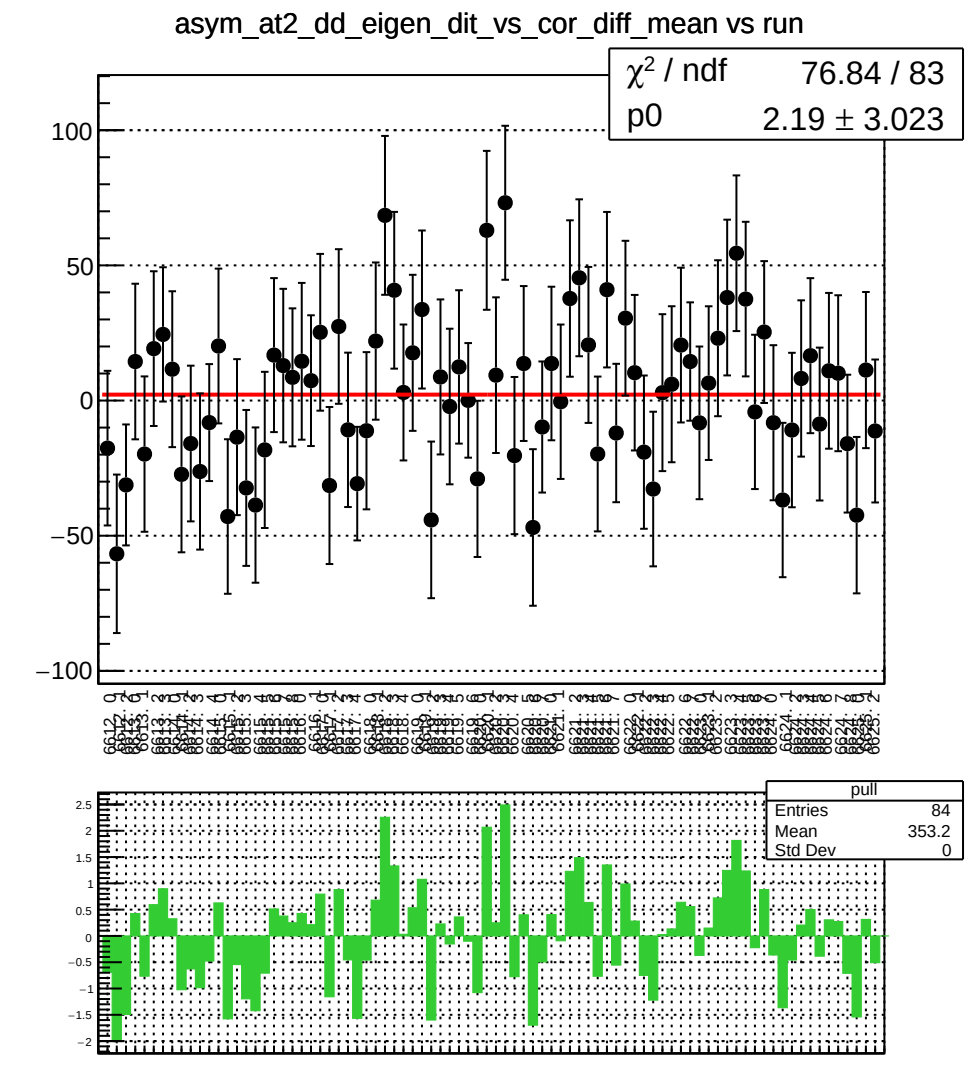

pull1D
Entries 84
Mean 0.01272
Std Dev 0.9564
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

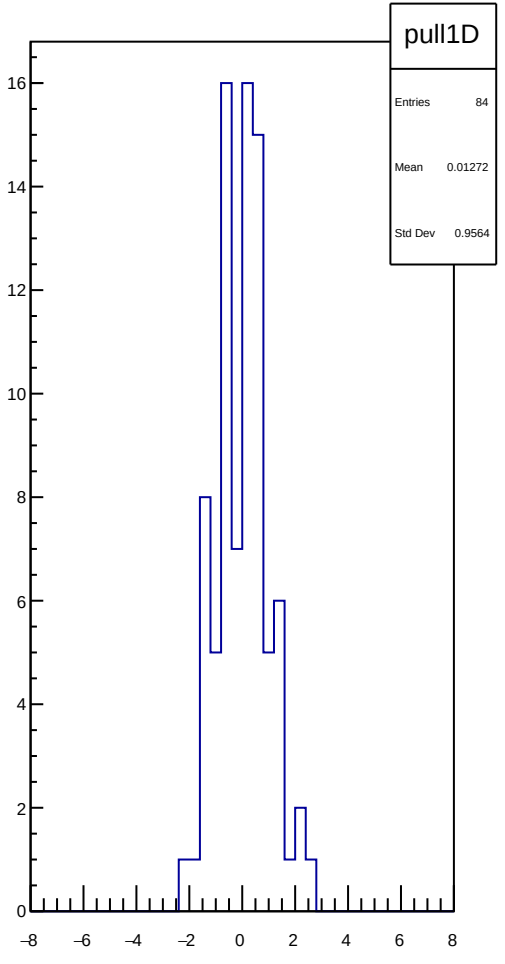

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 143 / 83
p0 2732 ± 2.138
2850
2800
2750
2700
2650

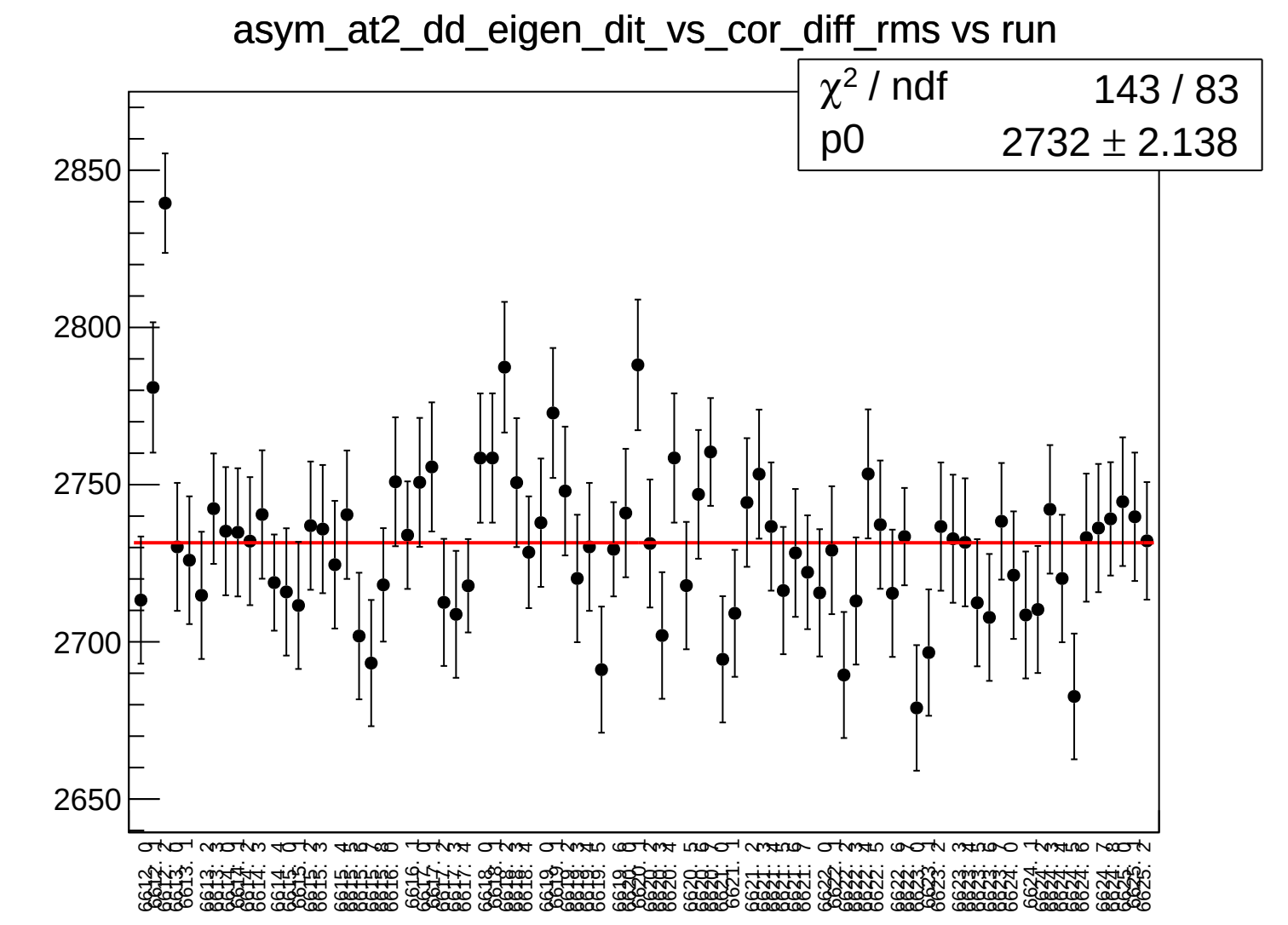

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.51 / 83
p0 −2.185e−05 ± 2.157e−05
pull
Entries 84
Mean 99.85
Std Dev 0

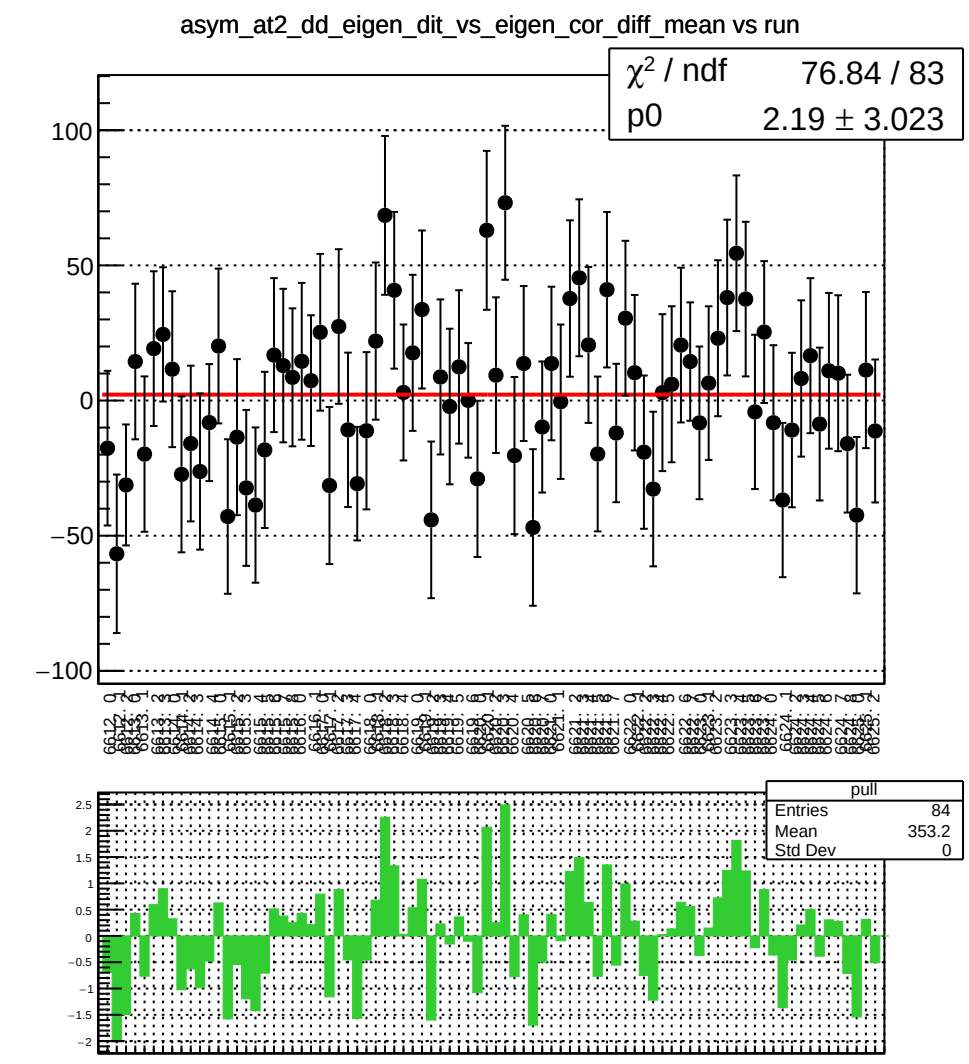

pull1D
Entries 84
Mean 0.01942
Std Dev 0.9289

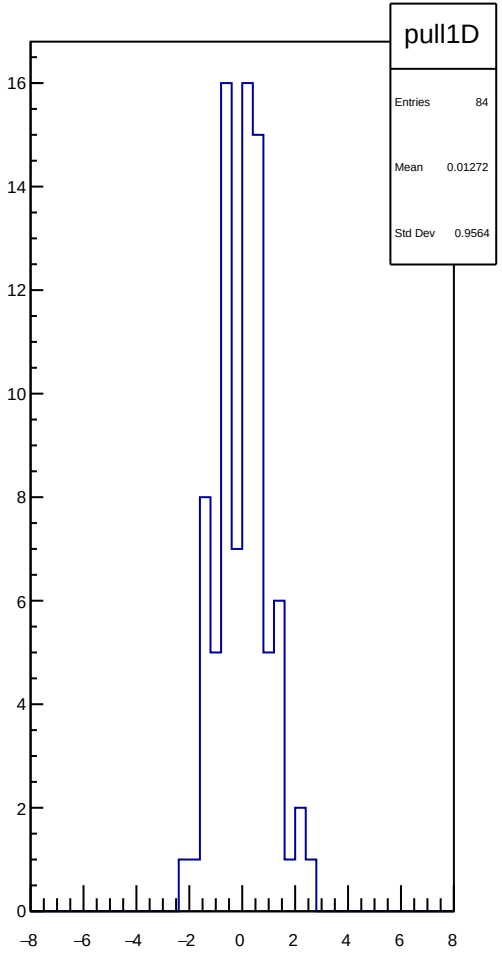

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.003e+04 / 83
p0 0.01943 ± 1.525e−05
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017

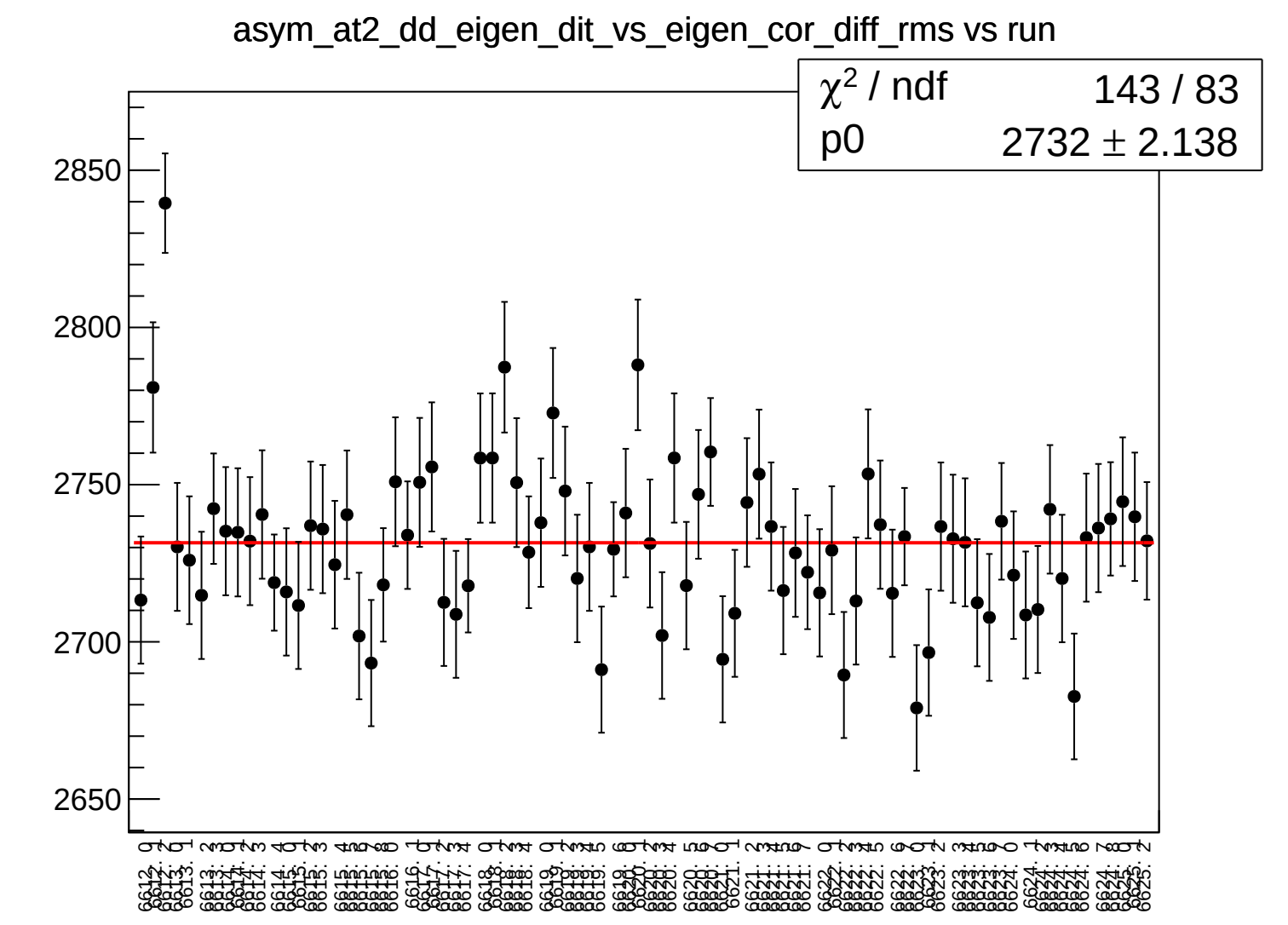

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.84 / 83
p0 2.19 ± 3.023
100
50
0
−50
−100
pull
Entries 84
Mean 353.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

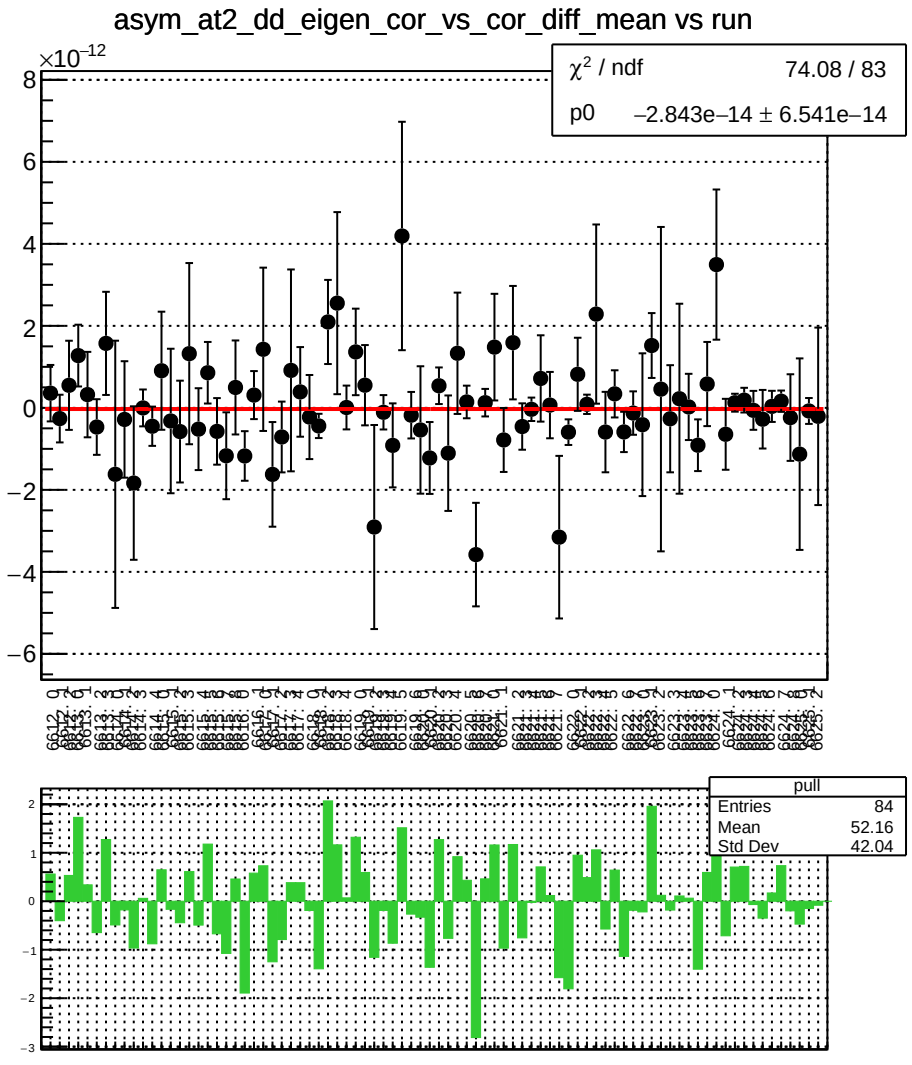

pull1D
Entries 84
Mean 0.01272
Std Dev 0.9564
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

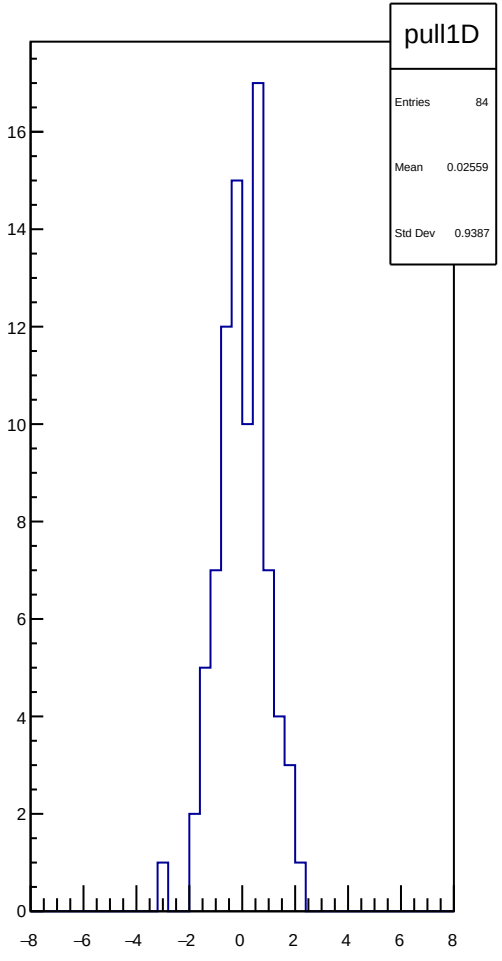

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 143 / 83
p0 2732 ± 2.138
2850
2800
2750
2700
2650

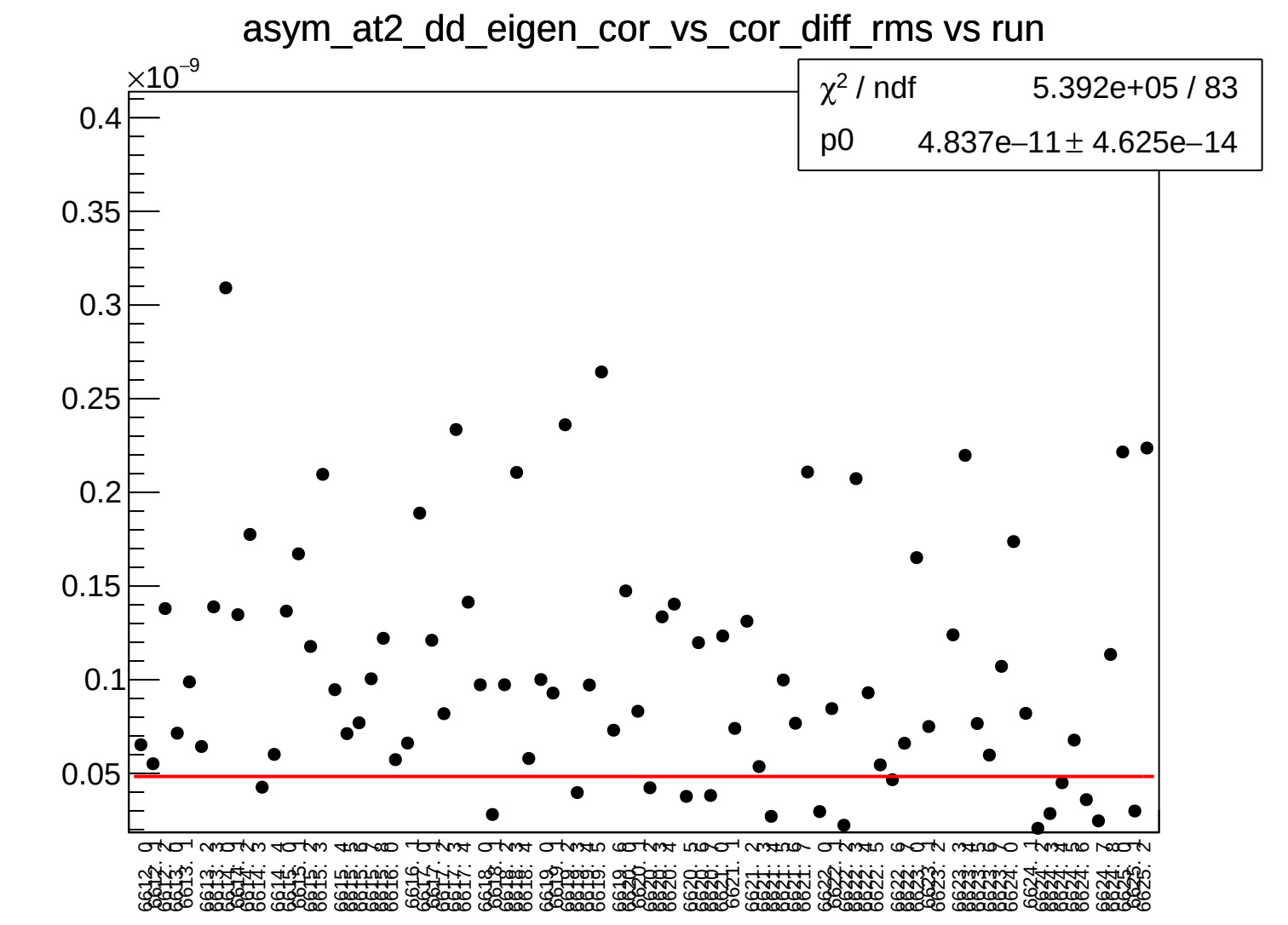

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.84 / 83
p0 2.19 ± 3.023
pull
Entries 84
Mean 353.2
Std Dev 0

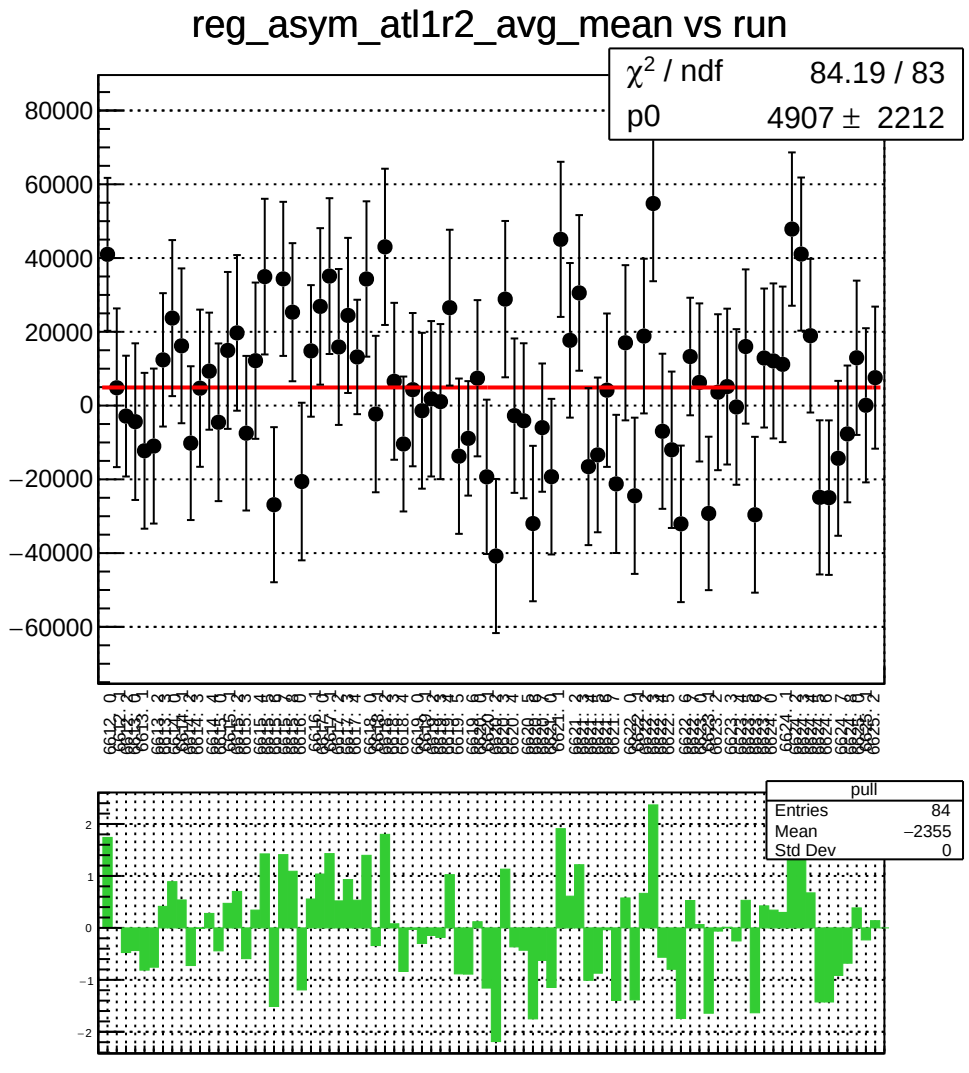

pull1D
Entries 84
Mean 0.01272
Std Dev 0.9564

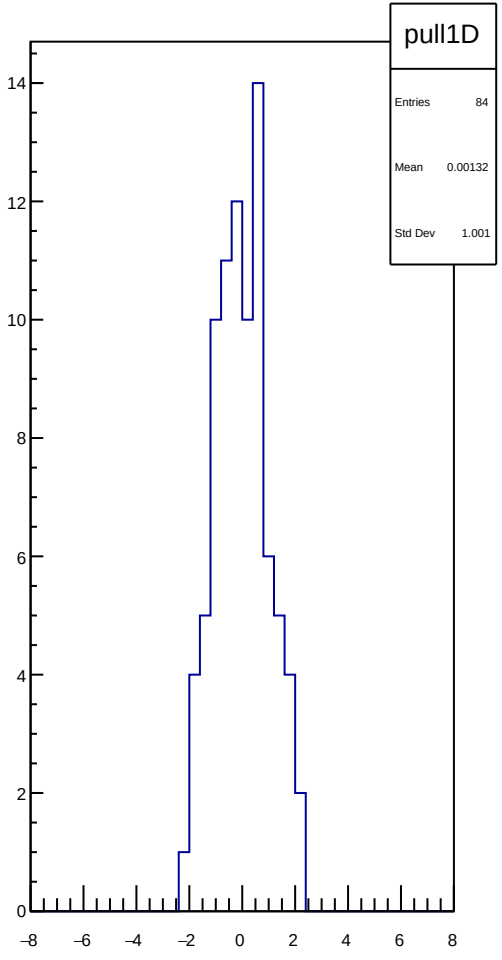

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 143 / 83
p0 2732 ± 2.138
2850
2800
2750
2700
2650

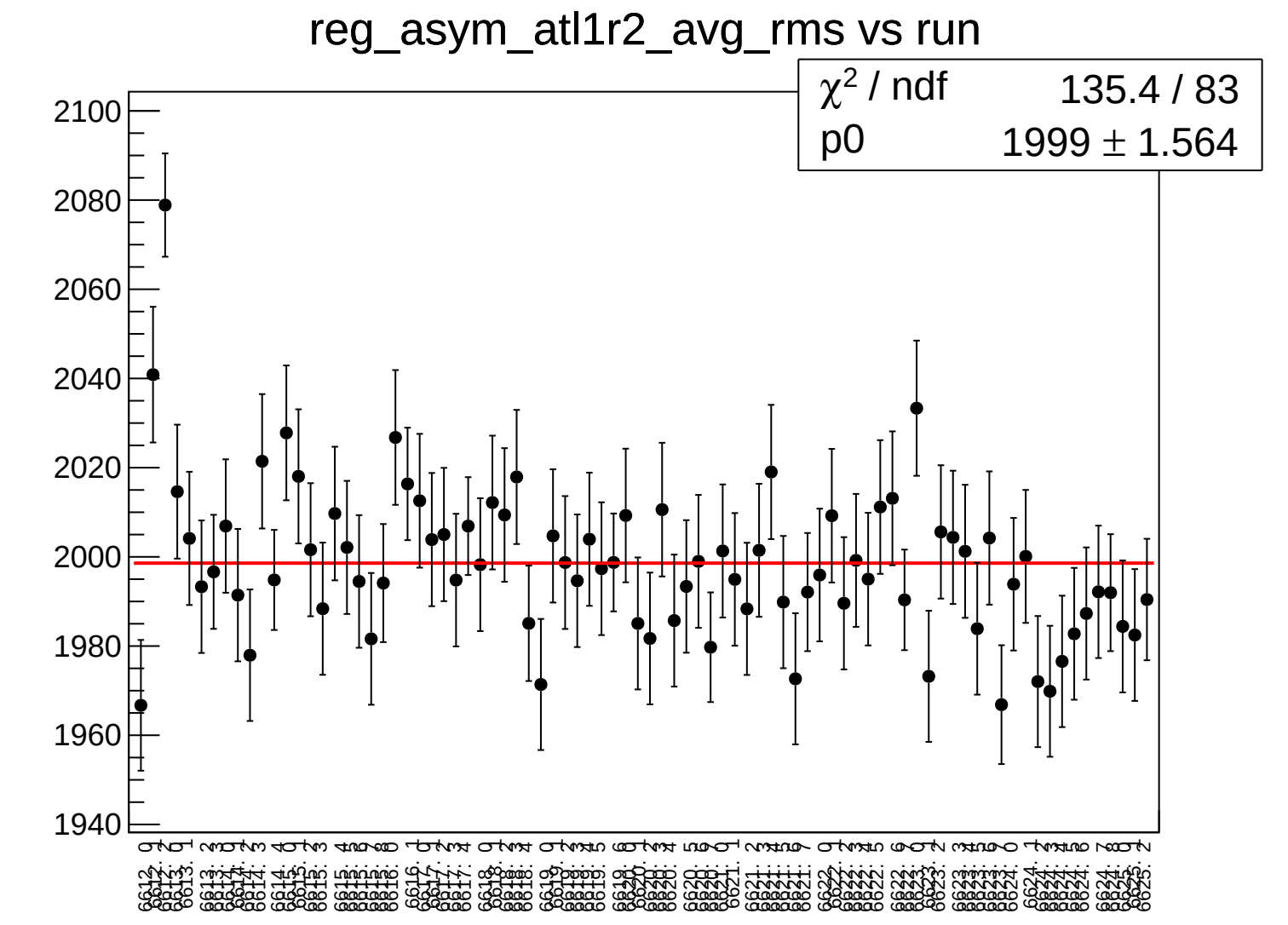

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.08 / 83
p0 −2.843e−14 ± 6.541e−14
pull
Entries 84
Mean 52.16
Std Dev 42.04

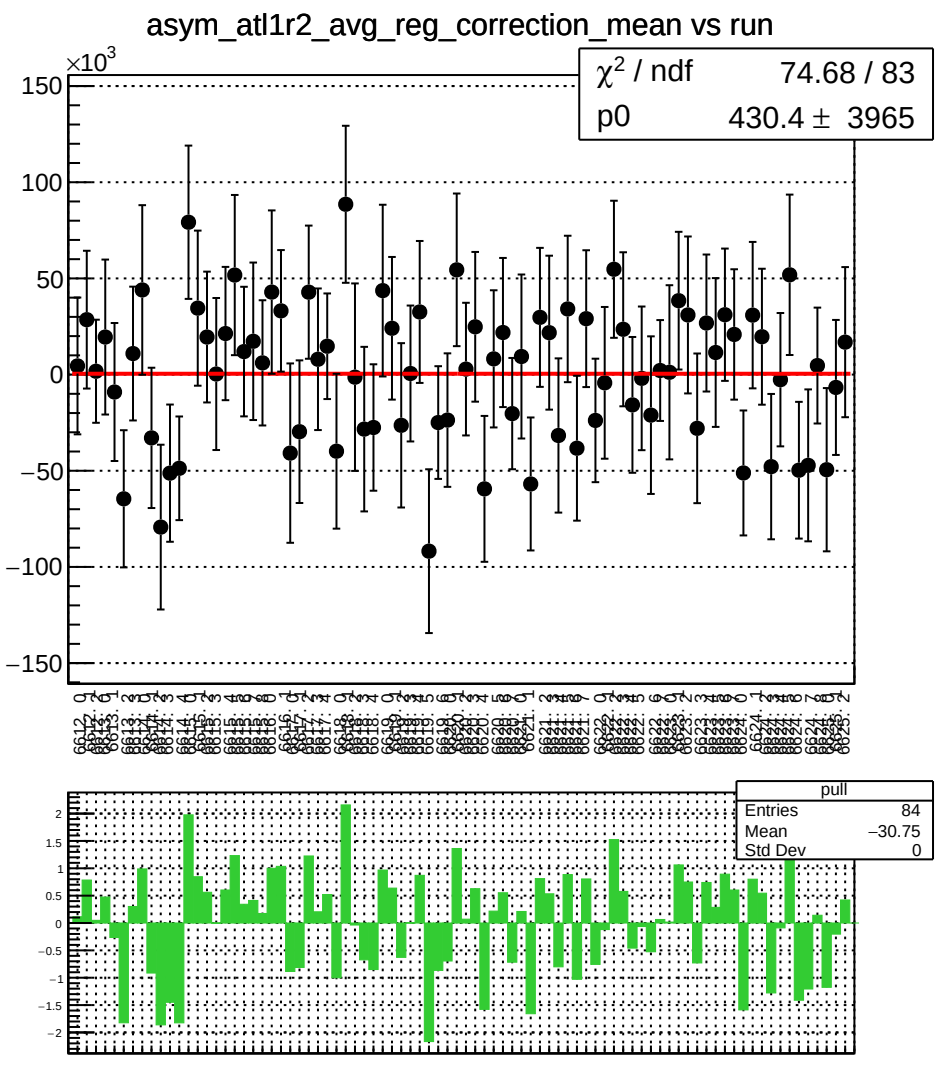

pull1D
Entries 84
Mean 0.02559
Std Dev 0.9387

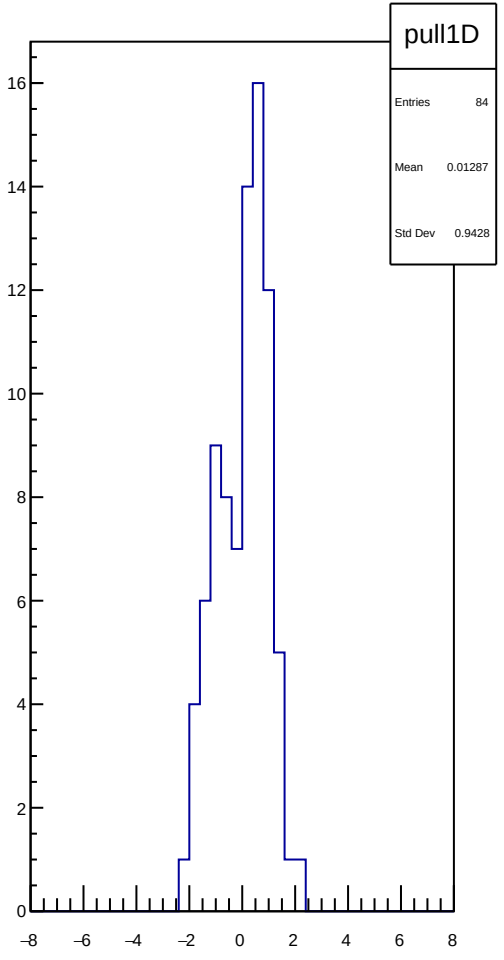

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.392e+05 / 83
p0 4.837e−11 ± 4.625e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

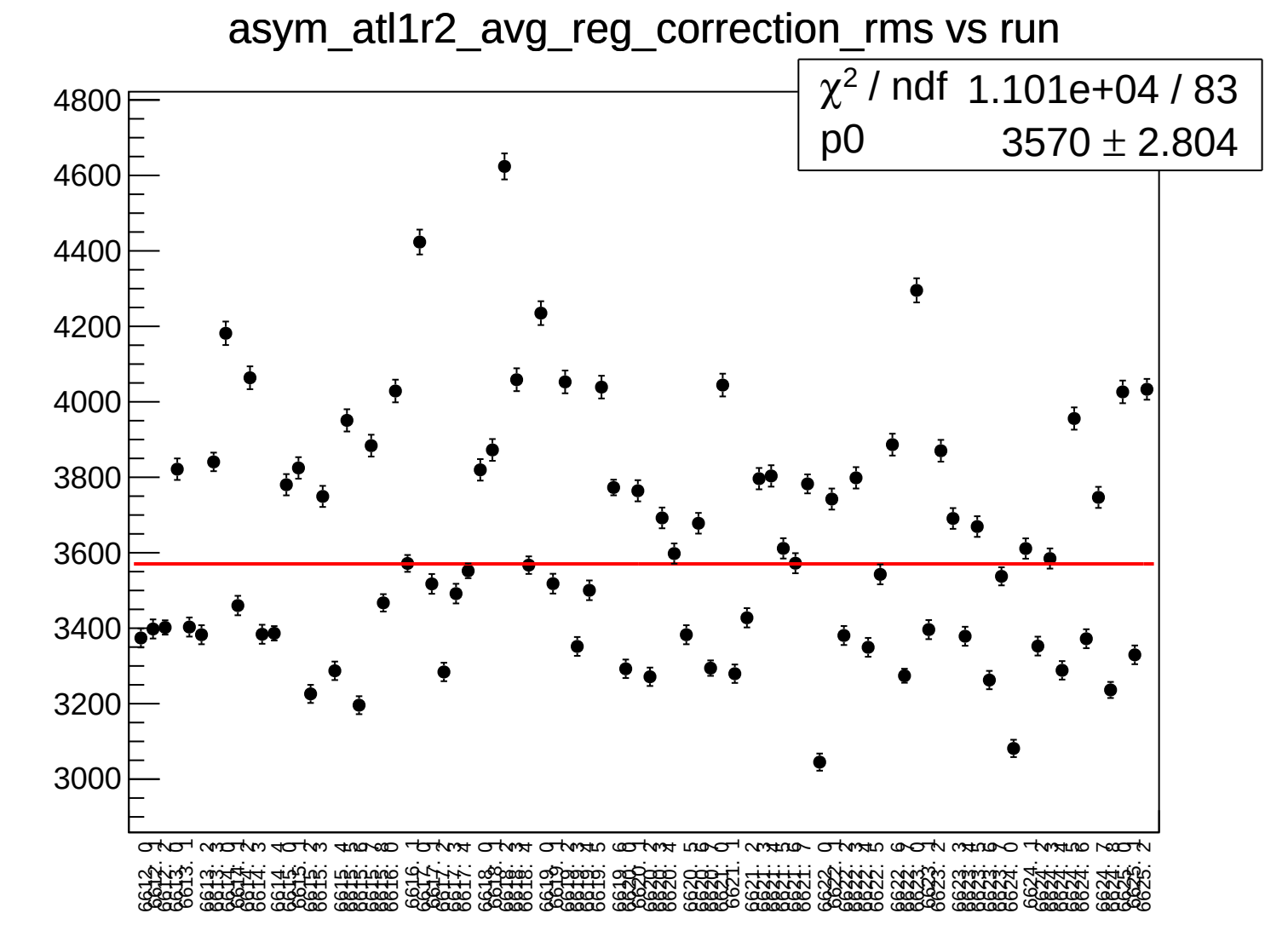

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 84.19 / 83
p0 4907 ± 2212
pull
Entries 84
Mean −2355
Std Dev 0

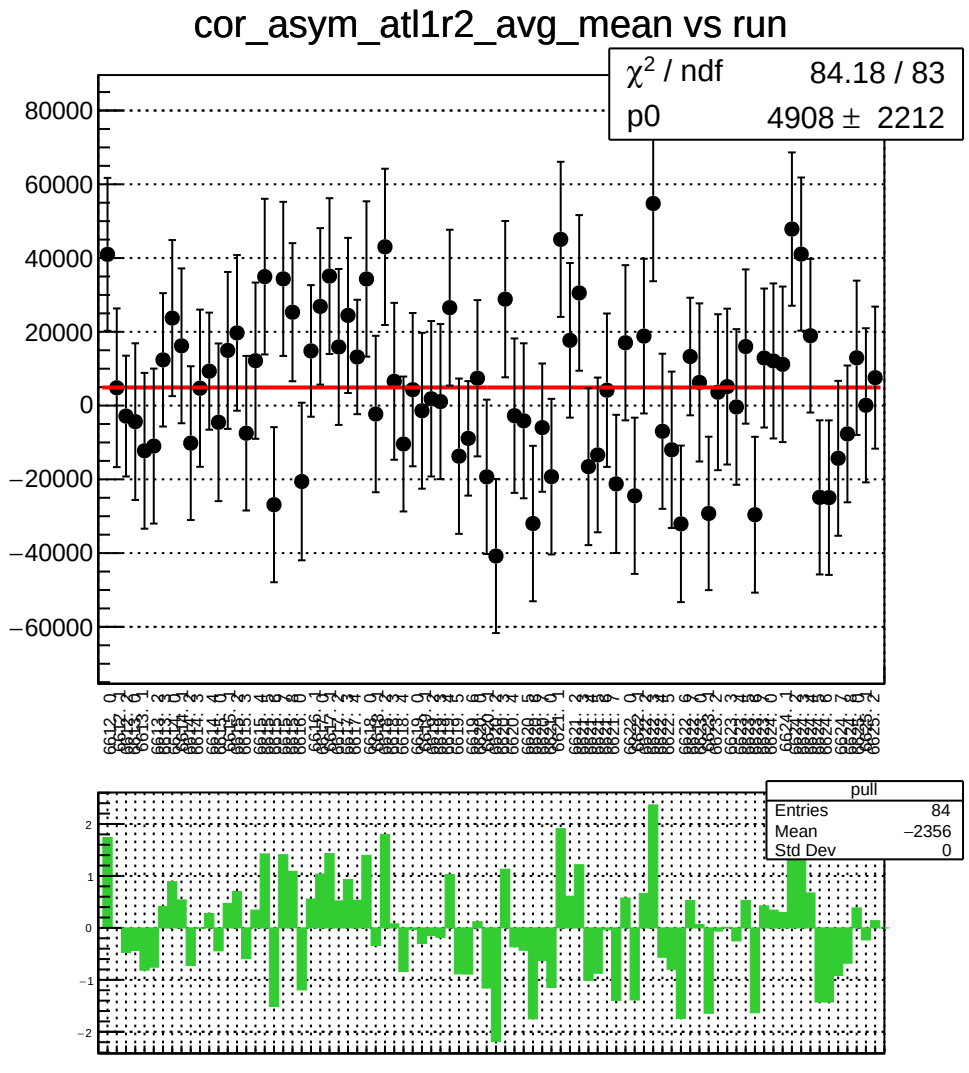

pull1D
Entries 84
Mean 0.00132
Std Dev 1.001

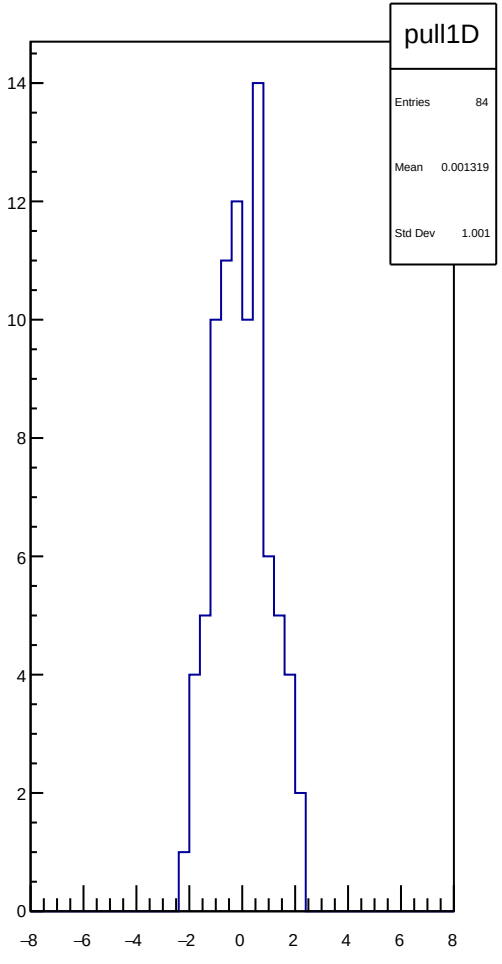

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 135.4 / 83
p0 1999 ± 1.564
2100
2080
2060
2040
2020
2000
1980
1960
1940

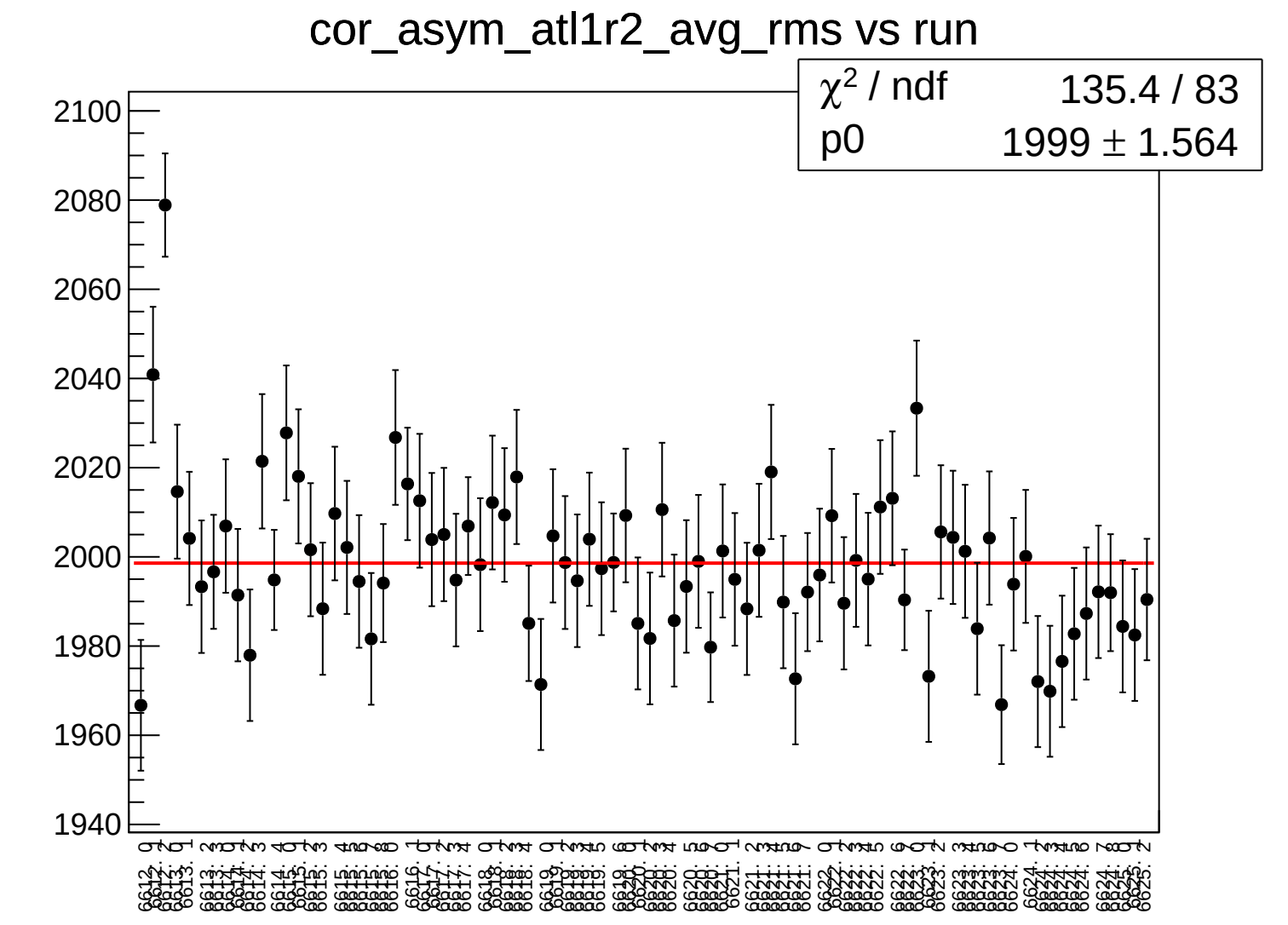

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 74.68 / 83
p0 430.4 ± 3965
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −30.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

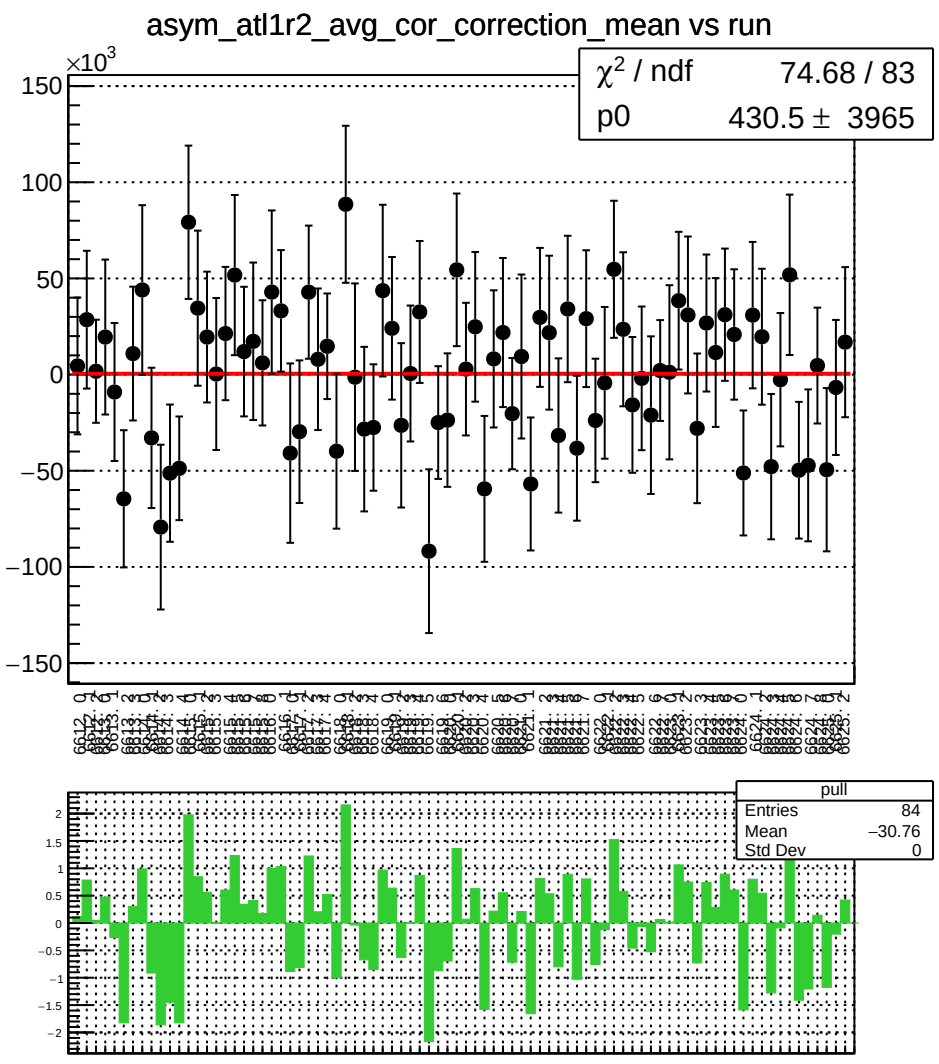

pull1D
Entries 84
Mean 0.01287
Std Dev 0.9428
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

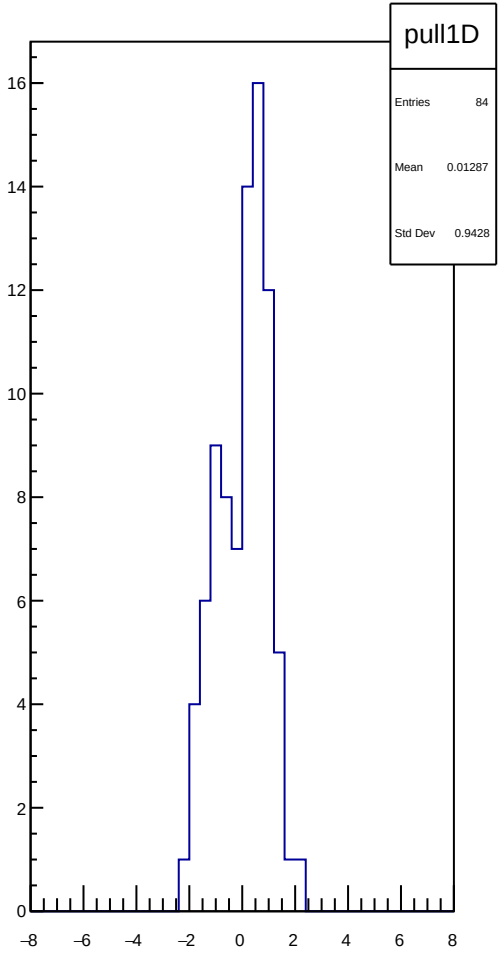

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 1.101e+04 / 83
p0 3570 ± 2.804
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

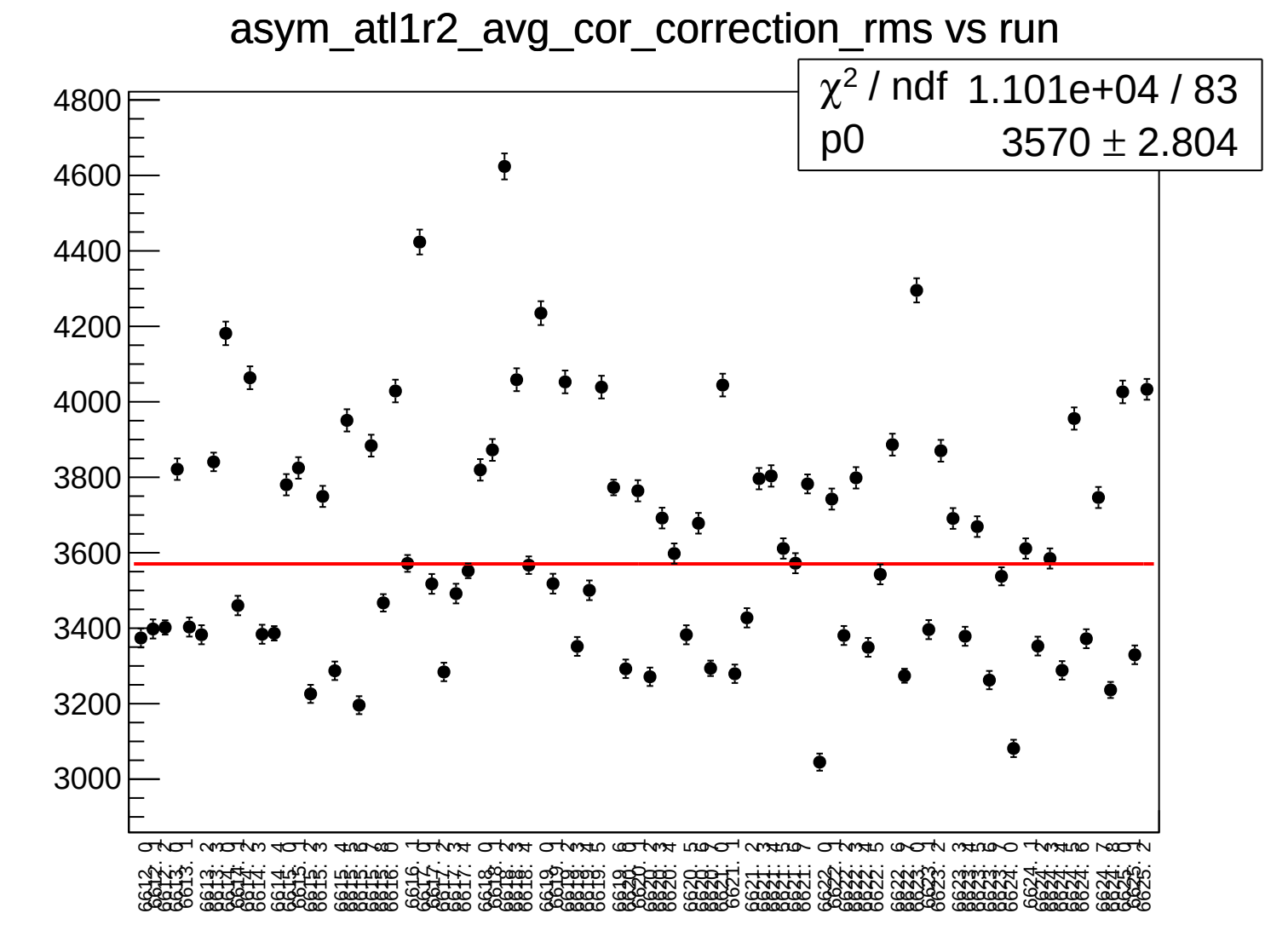

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 84.18 / 83
p0 4908 ± 2212
pull
Entries 84
Mean −2356
Std Dev 0

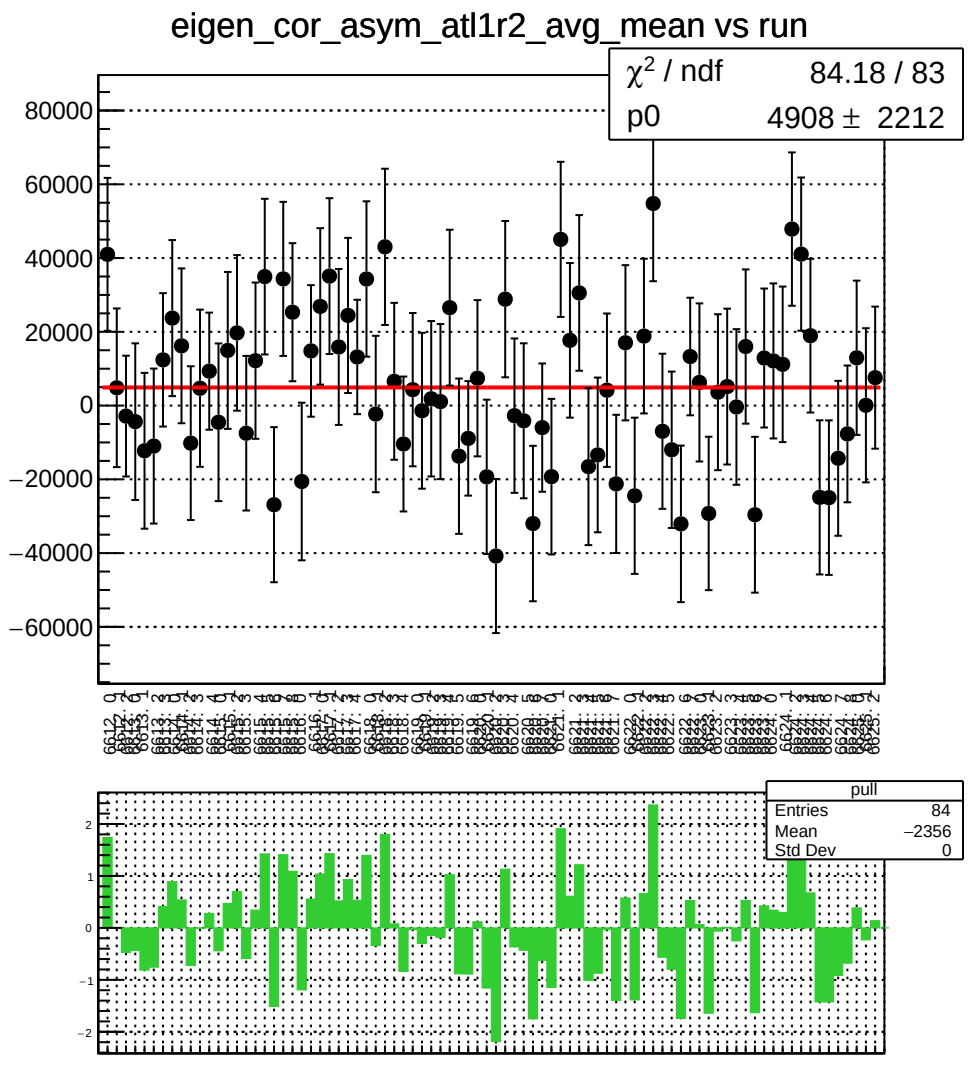

pull1D
Entries 84
Mean 0.001319
Std Dev 1.001

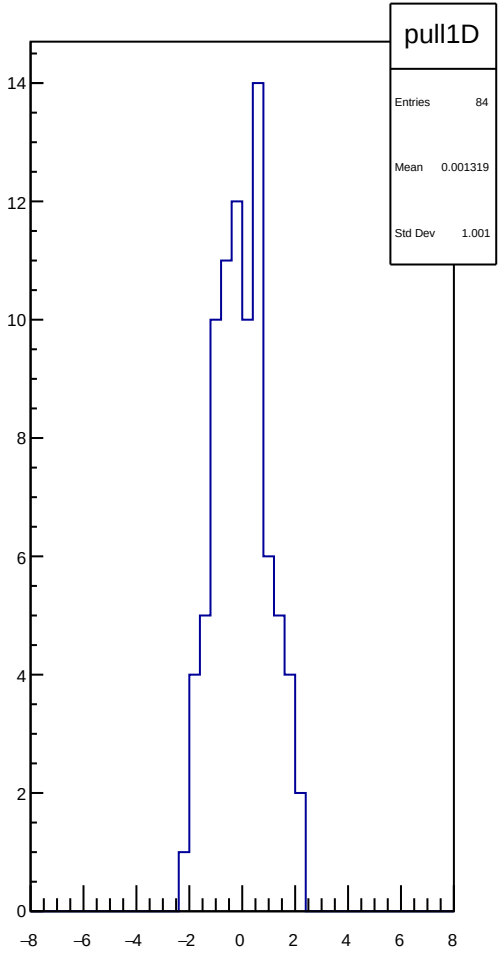

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 135.4 / 83
p0 1999 ± 1.564
2100
2080
2060
2040
2020
2000
1980
1960
1940

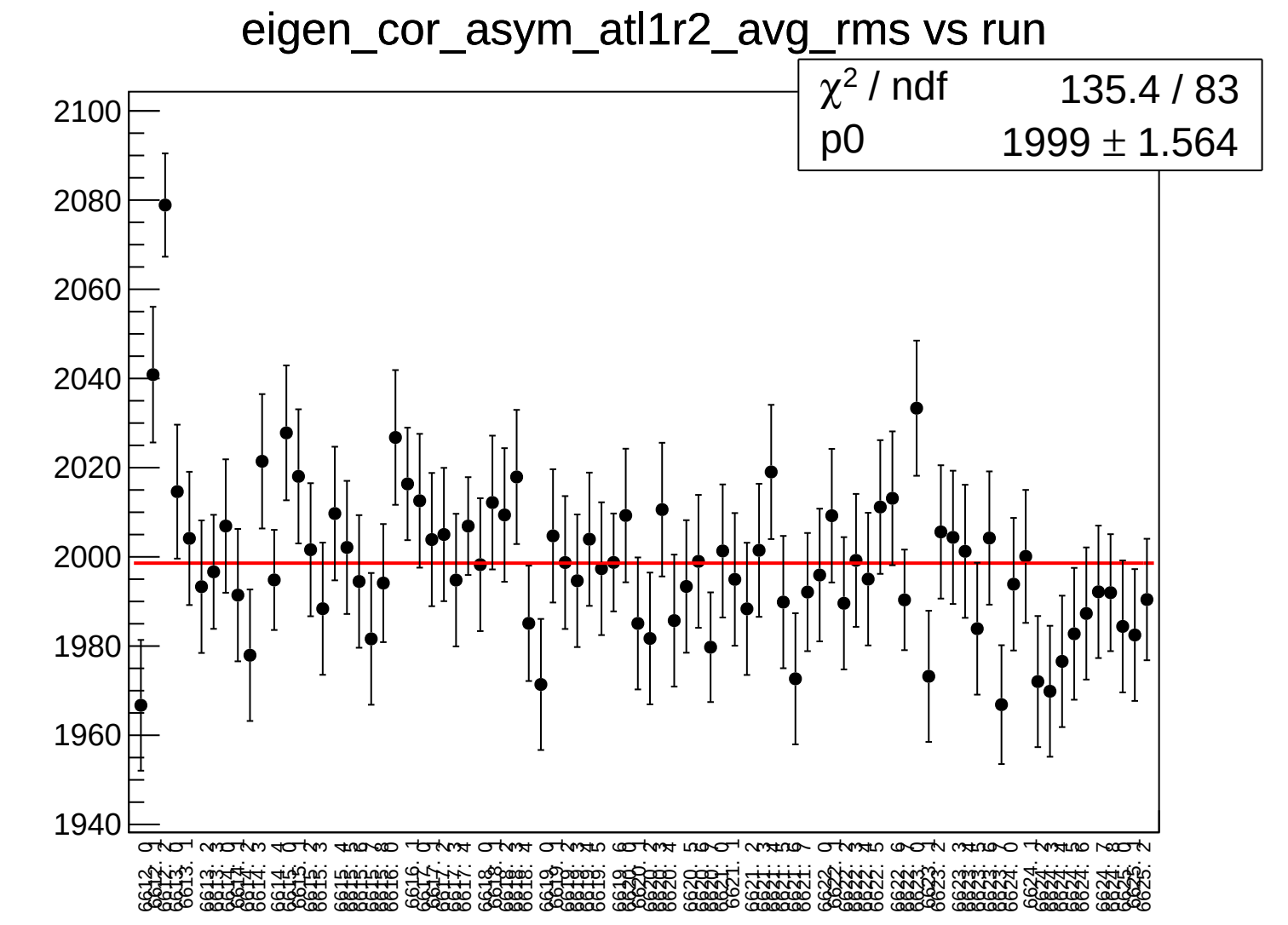

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 74.68 / 83
p0 430.5 ± 3965
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −30.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

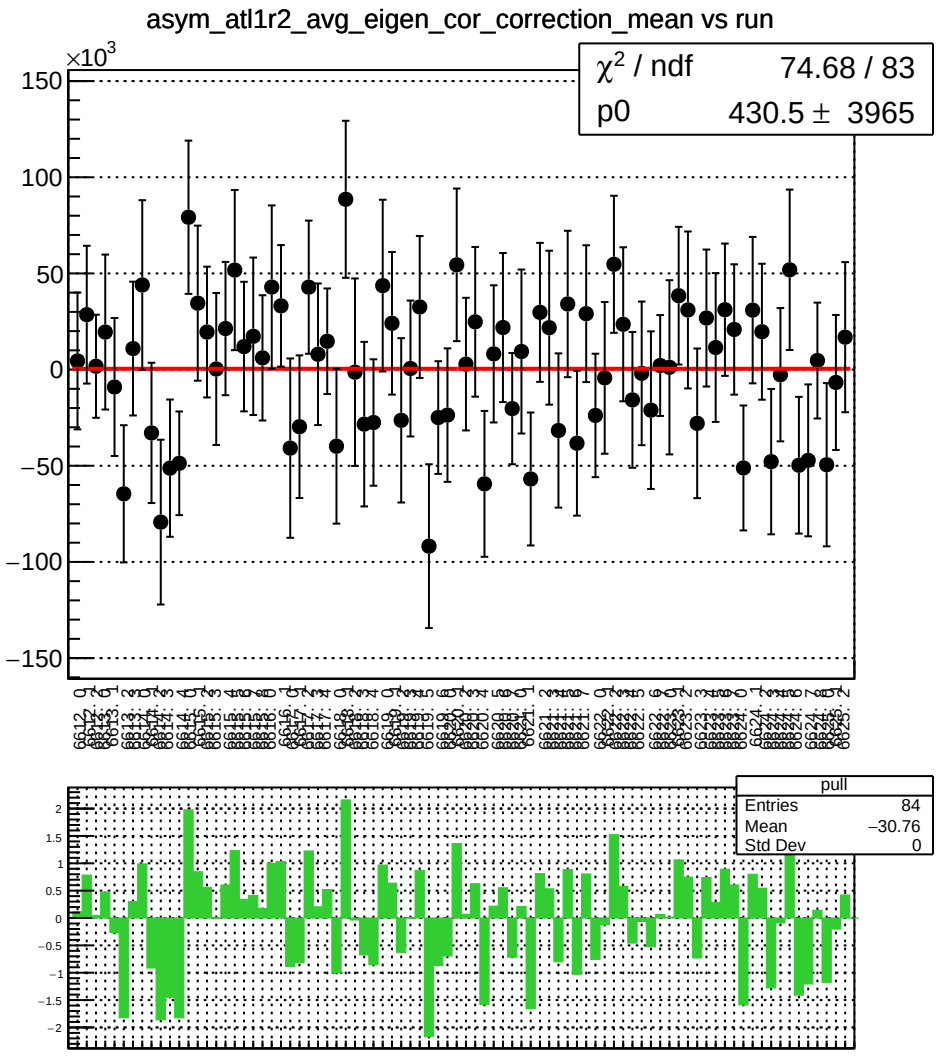

pull1D
Entries 84
Mean 0.01287
Std Dev 0.9428
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

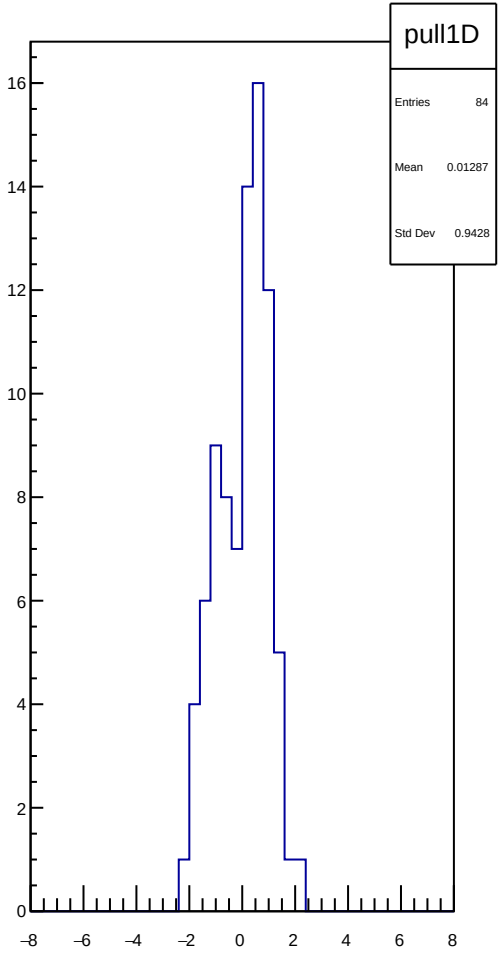

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 1.101e+04 / 83
p0 3570 ± 2.804
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

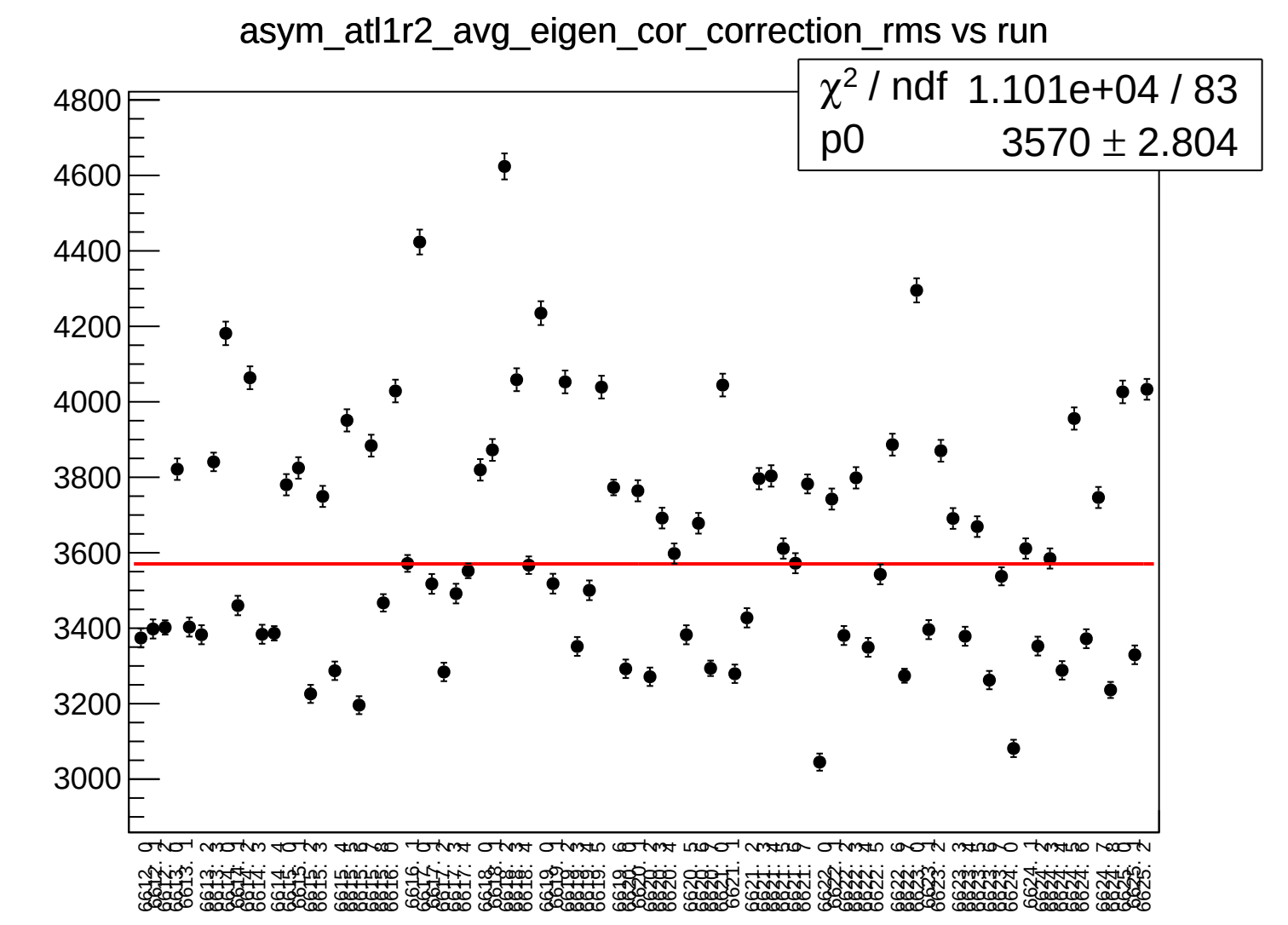

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 84.18 / 83
p0 4908 ± 2212
pull
Entries 84
Mean −2356
Std Dev 0

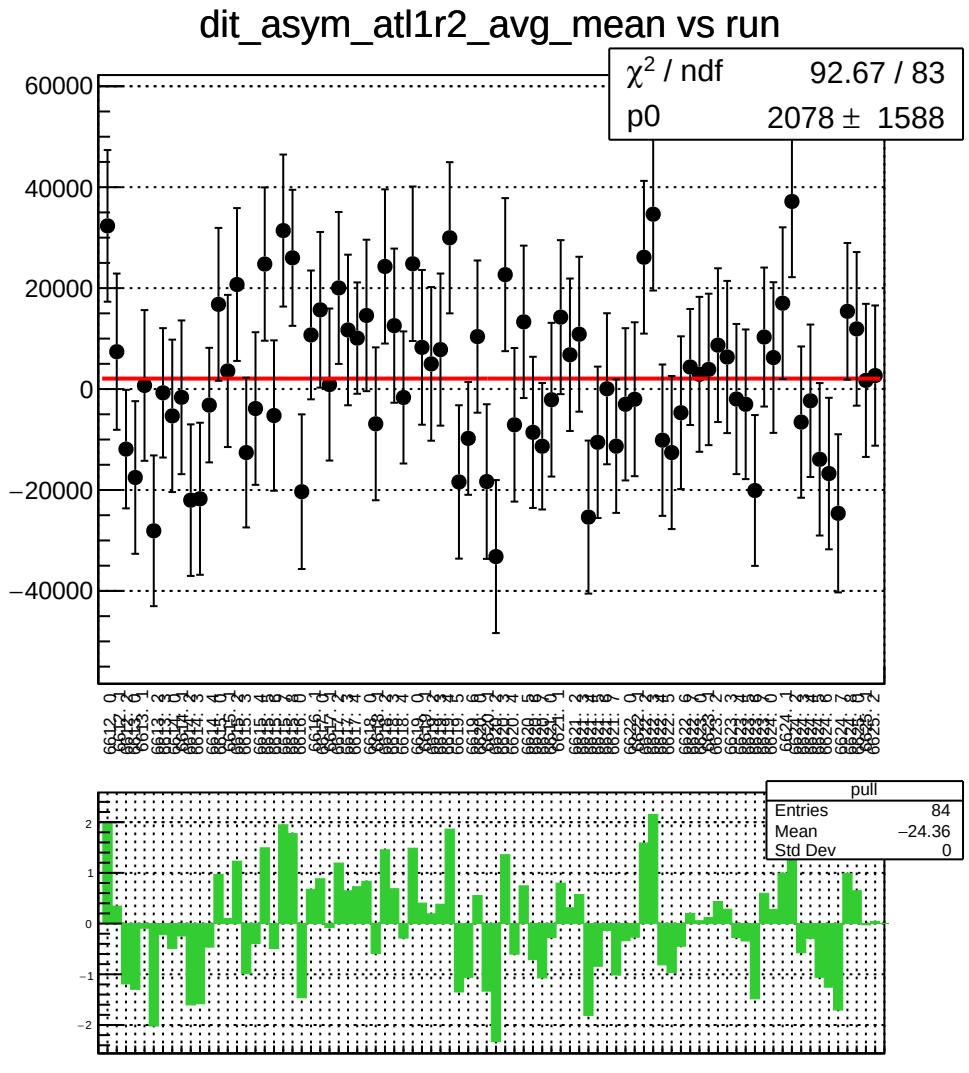

pull1D
Entries 84
Mean 0.001319
Std Dev 1.001

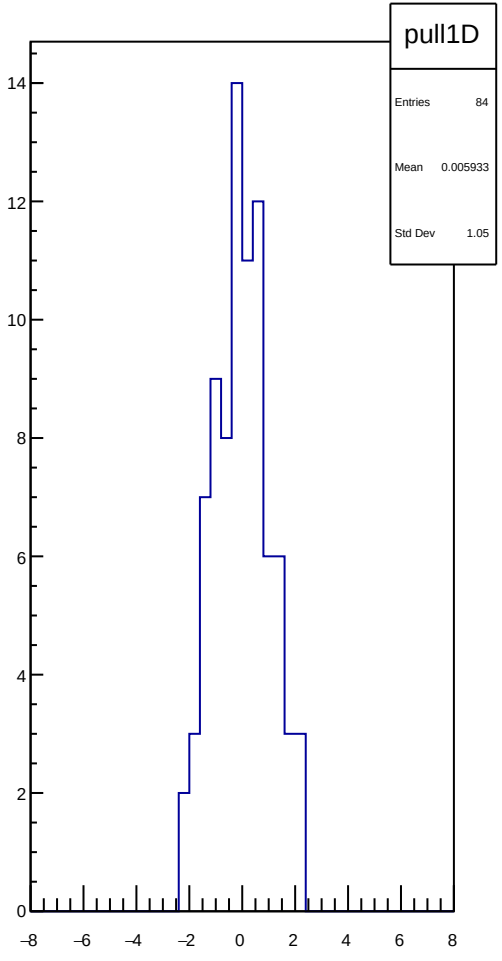

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 135.4 / 83
p0 1999 ± 1.564
2100
2080
2060
2040
2020
2000
1980
1960
1940

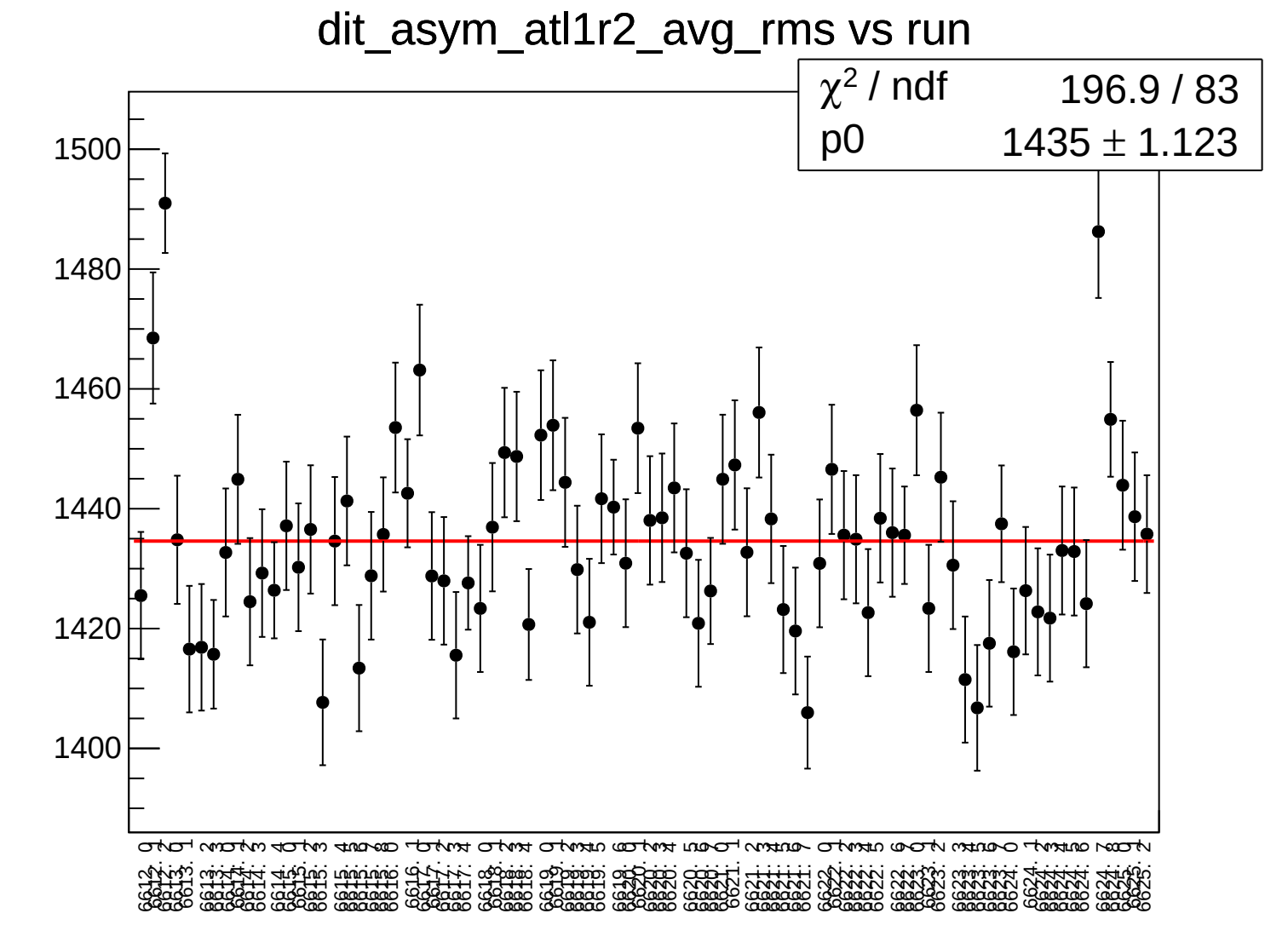

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.68 / 83
p0 430.5 ± 3965
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −30.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

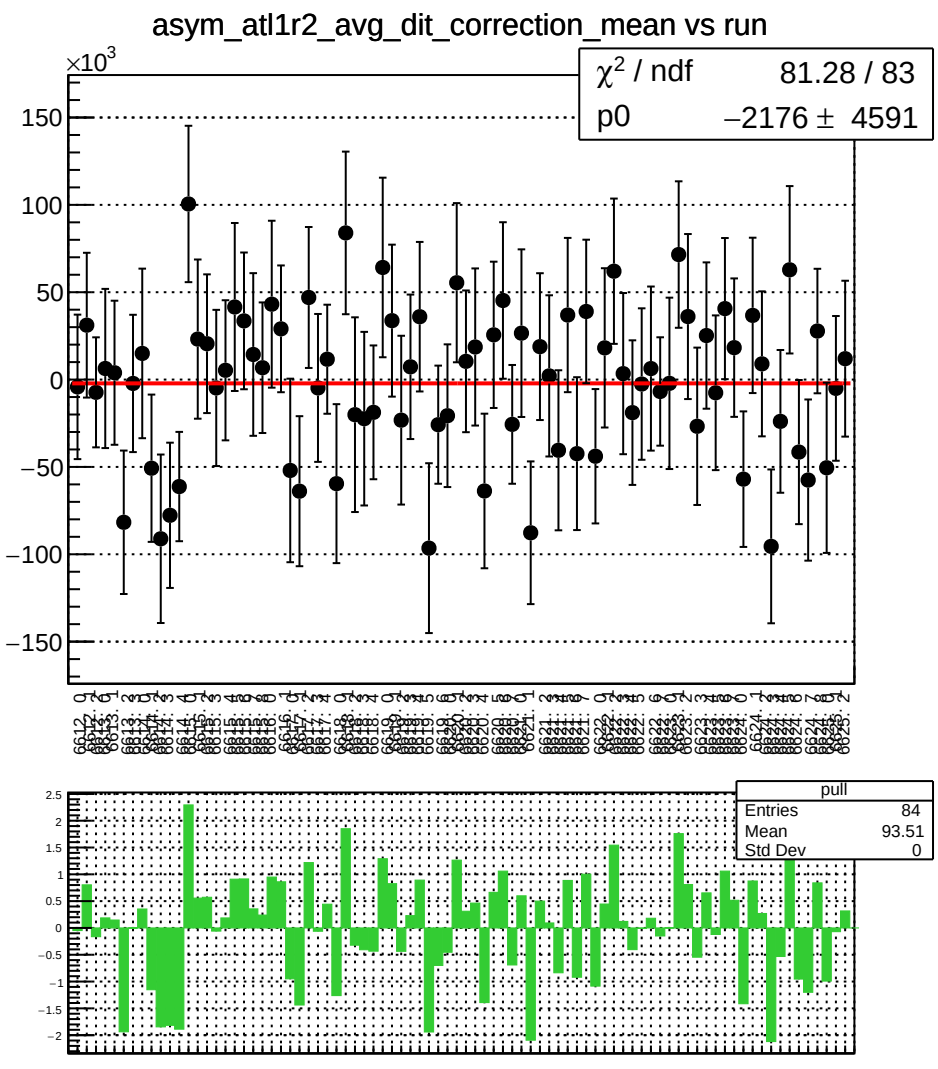

pull1D
Entries 84
Mean 0.01287
Std Dev 0.9428
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

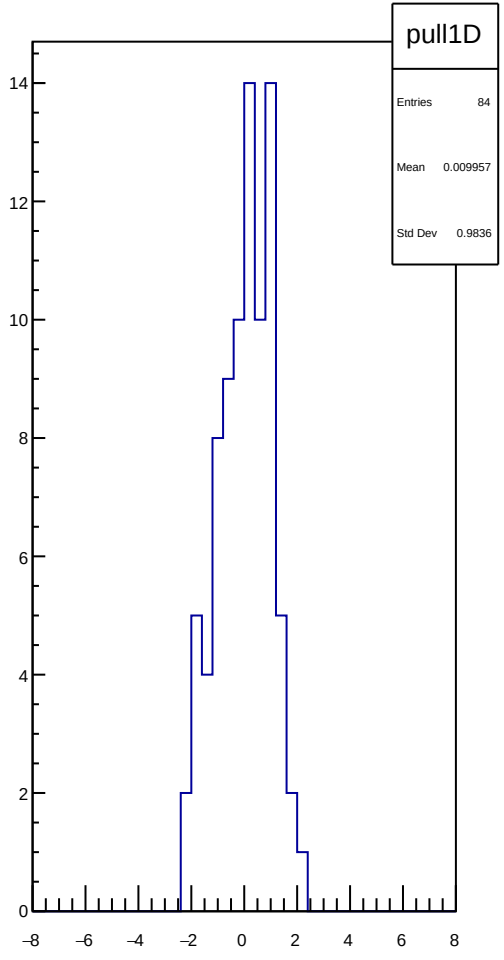

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.101e+04 / 83
p0 3570 ± 2.804
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

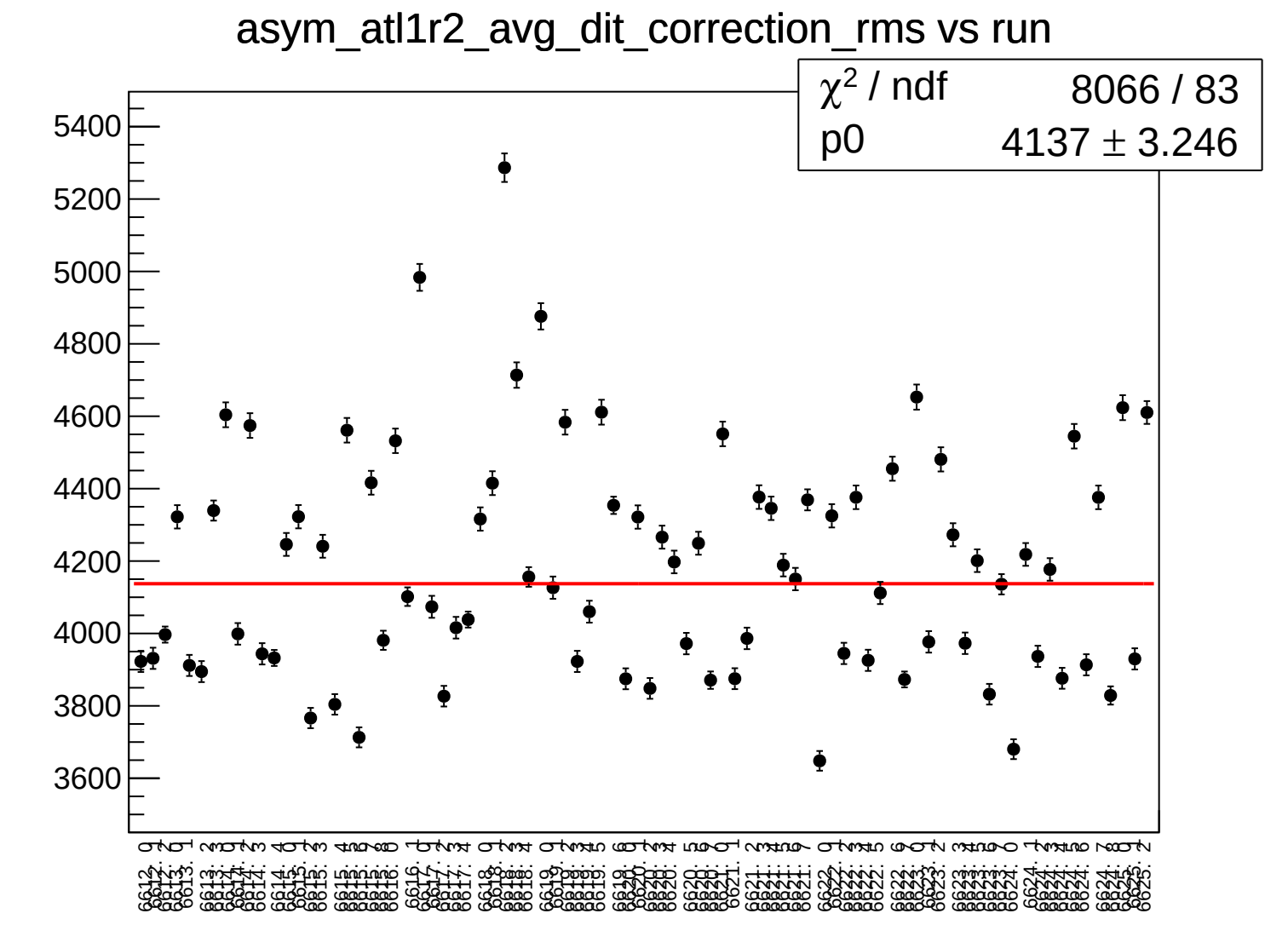

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 92.67 / 83
p0 2078 ± 1588
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −24.36
Std Dev 0
2
1
0
−1
−2

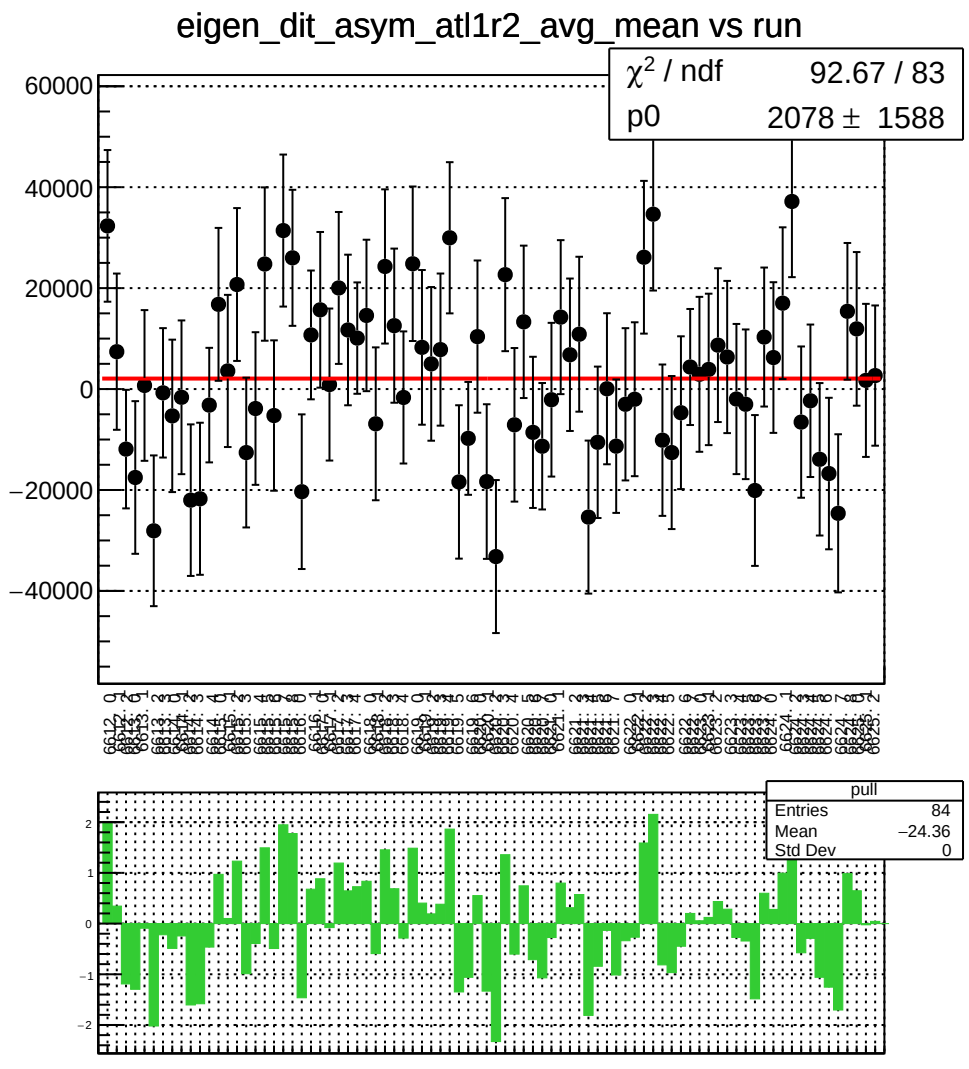

pull1D
Entries 84
Mean 0.005933
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

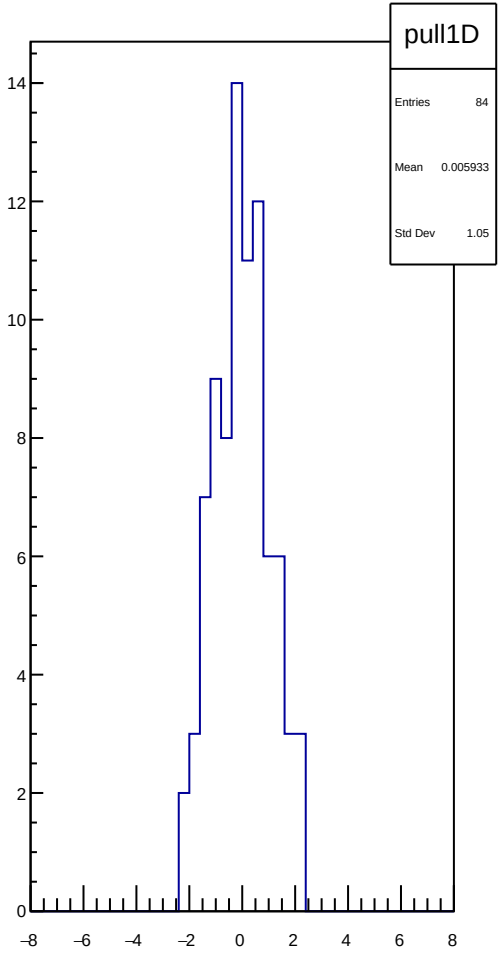

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 196.9 / 83
p0 1435 ± 1.123
1500
1480
1460
1440
1420
1400

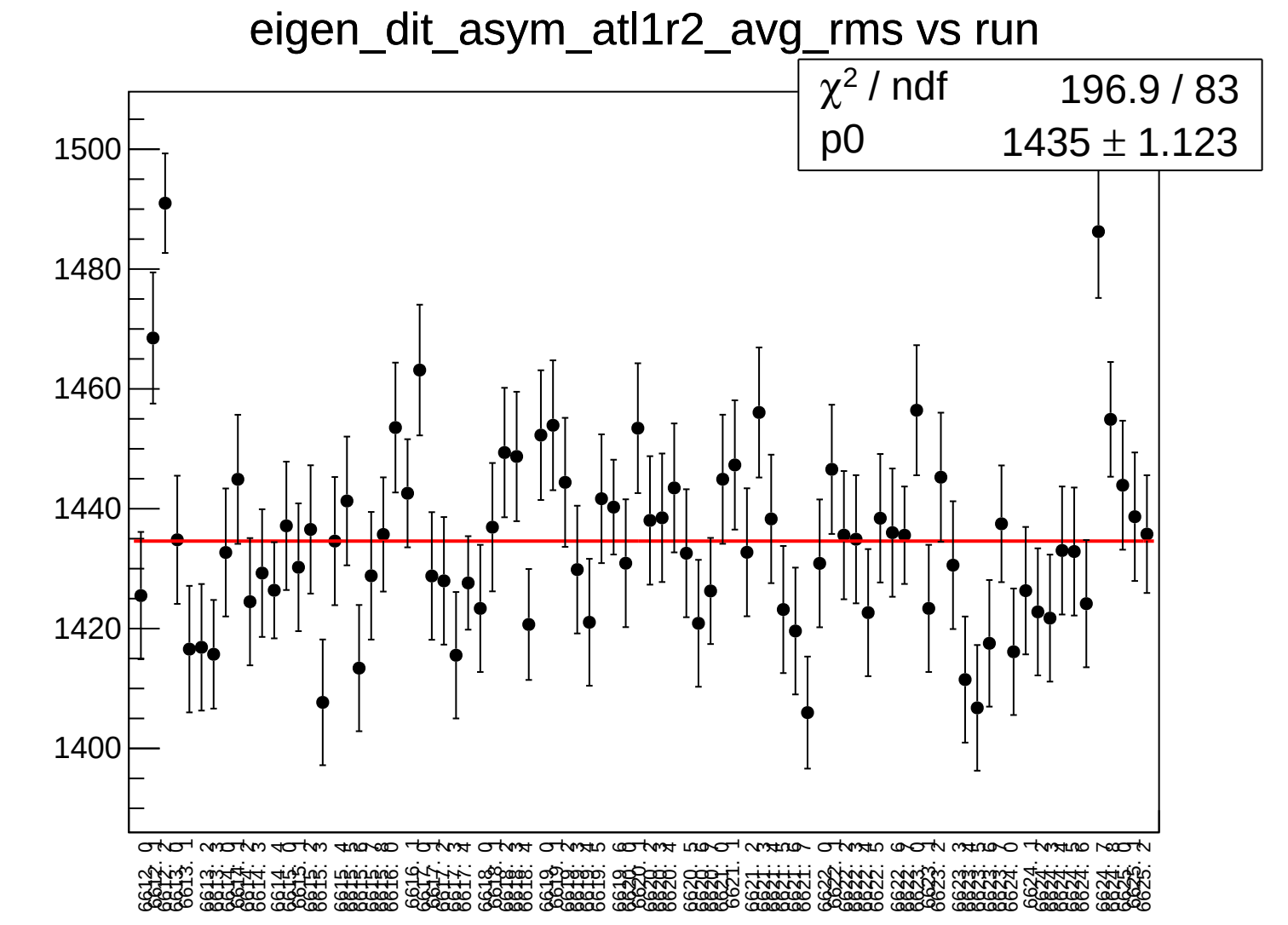

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 81.28 / 83
p0 −2176 ± 4591
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 93.51
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

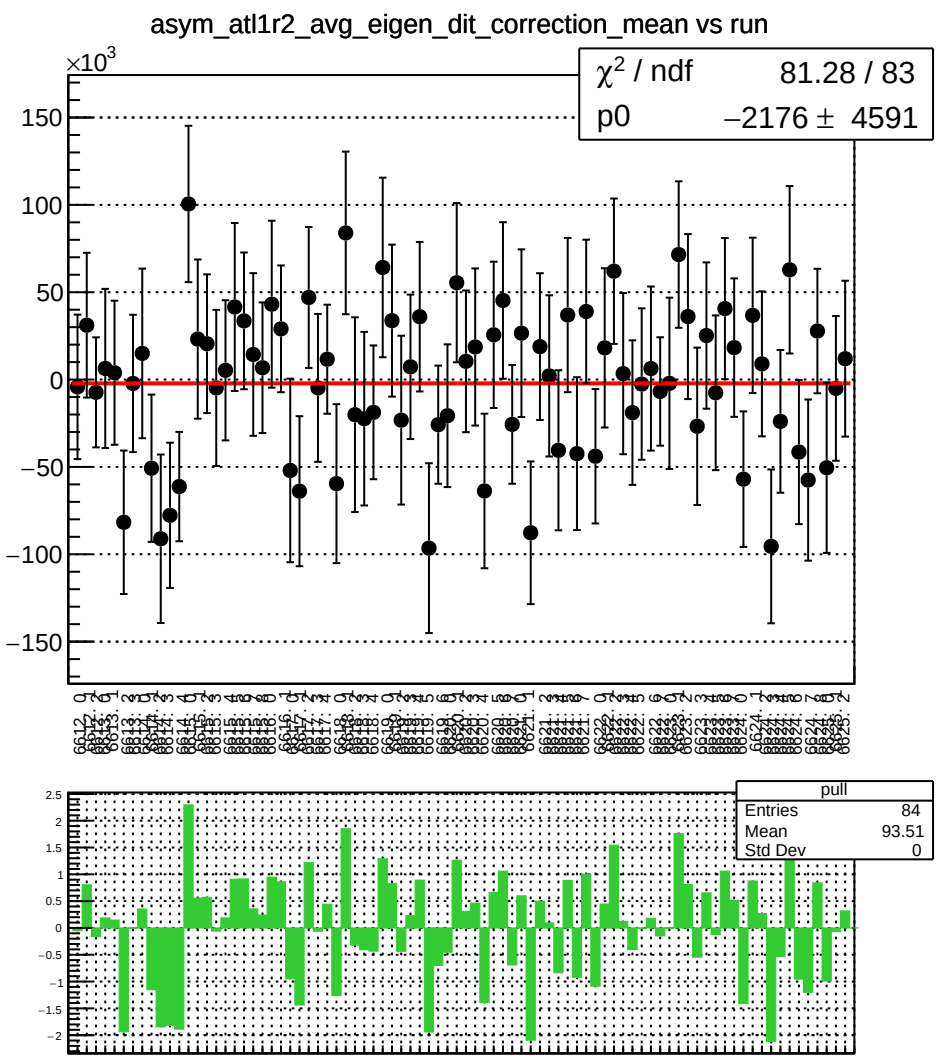

pull1D
Entries 84
Mean 0.009957
Std Dev 0.9836
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

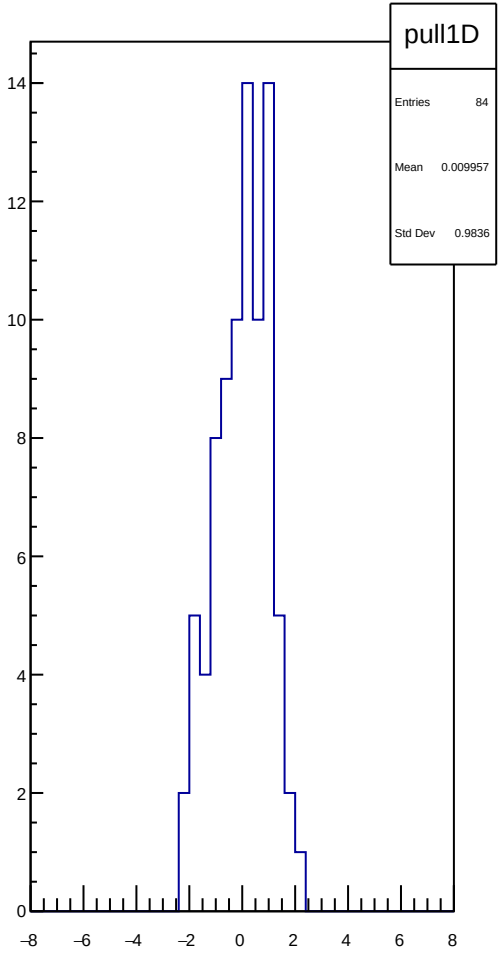

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 8066 / 83
p0 4137 ± 3.246
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

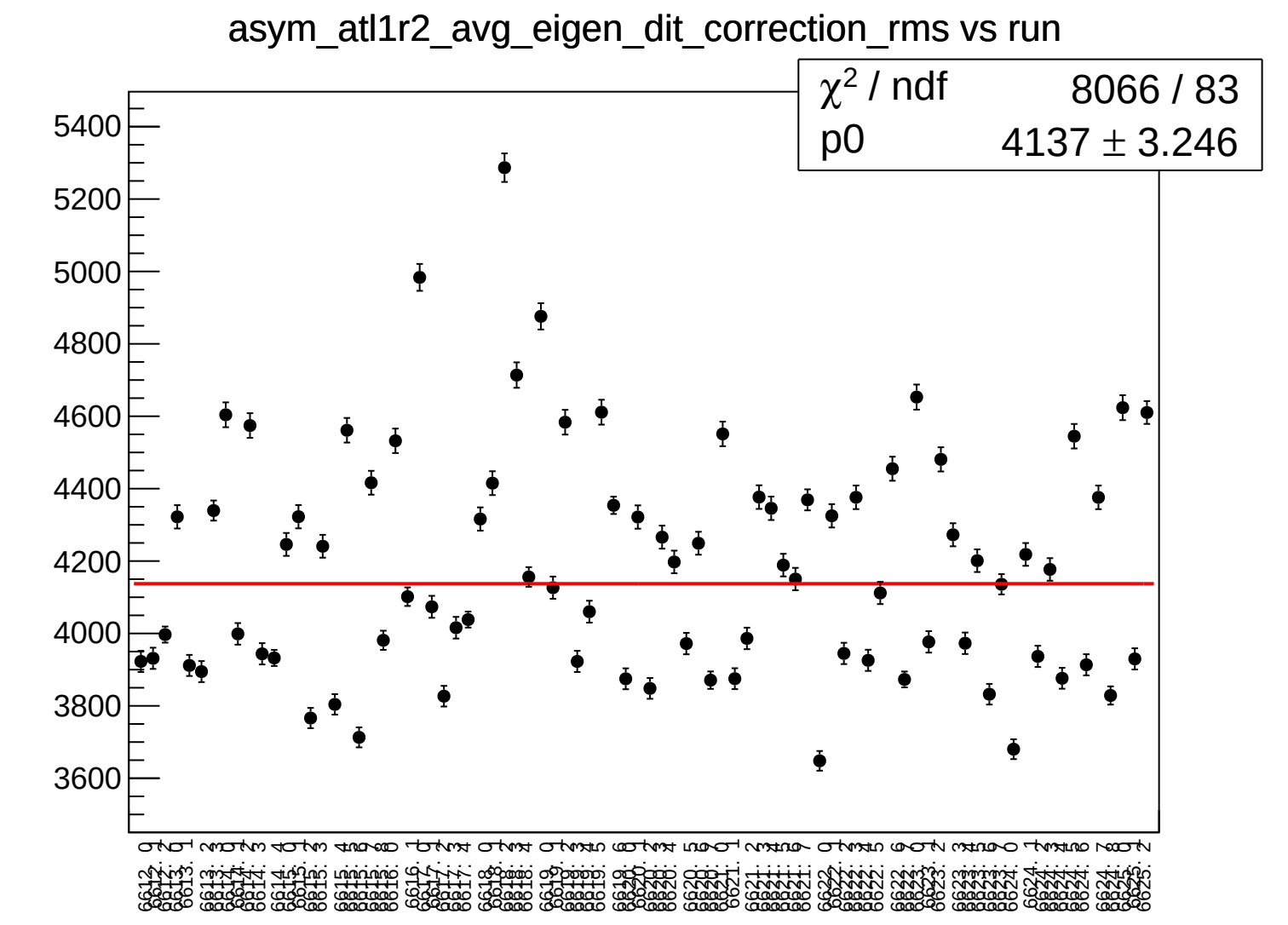

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 92.67 / 83
p0 2078 ± 1588
pull
Entries 84
Mean −24.36
Std Dev 0

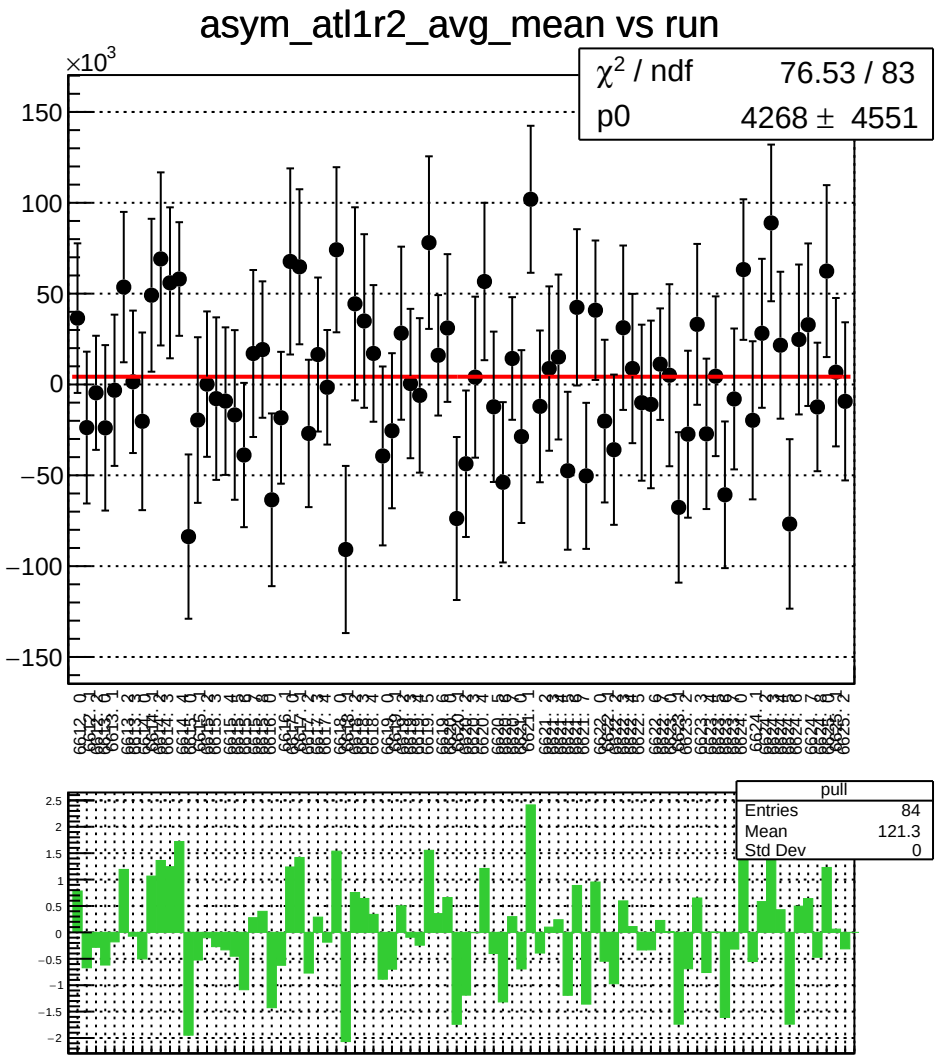

pull1D
Entries 84
Mean 0.005933
Std Dev 1.05

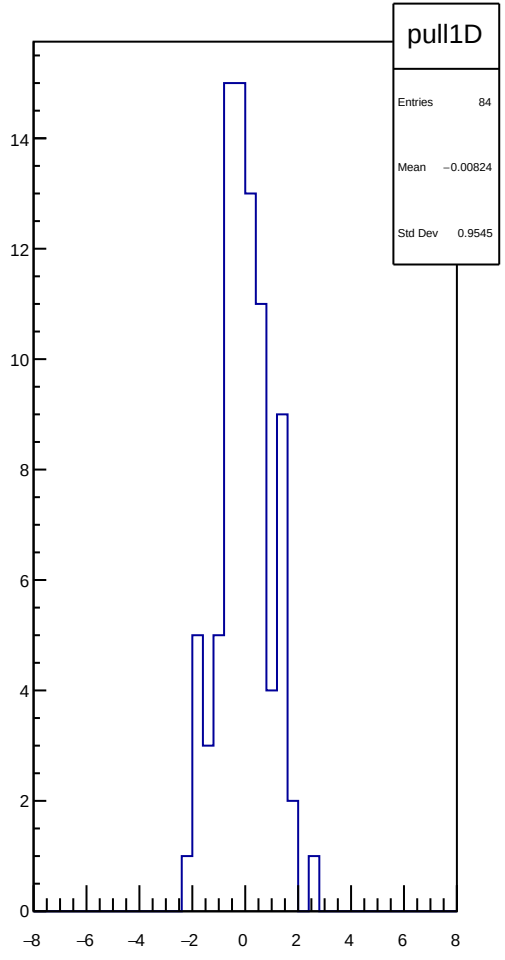

eigen_dit_asym_atl1r2_avg_rms vs run
χ^2 / ndf 196.9 / 83
p0 1435 ± 1.123
1500
1480
1460
1440
1420
1400

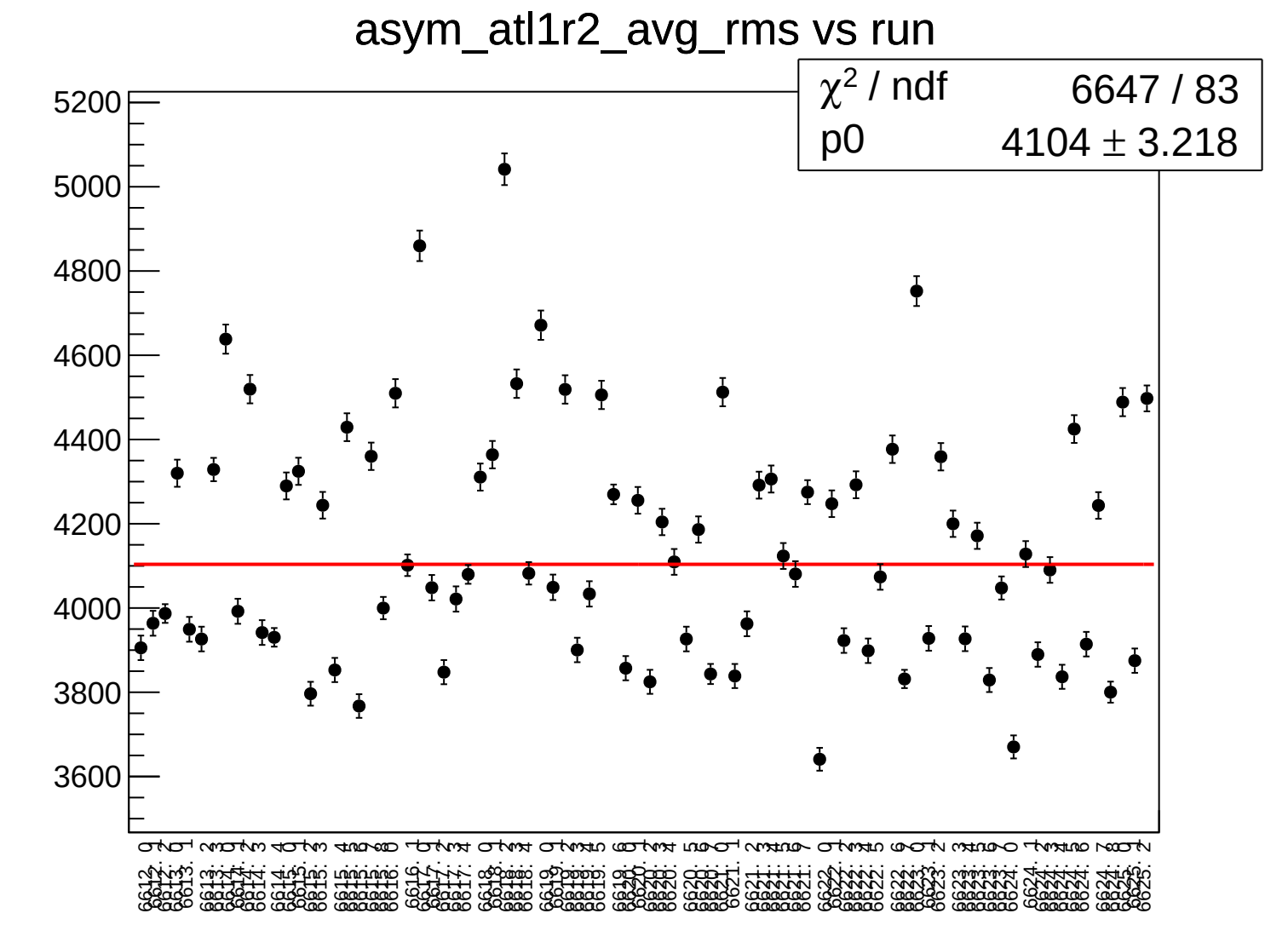

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.28 / 83
p0 −2176 ± 4591
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 93.51
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

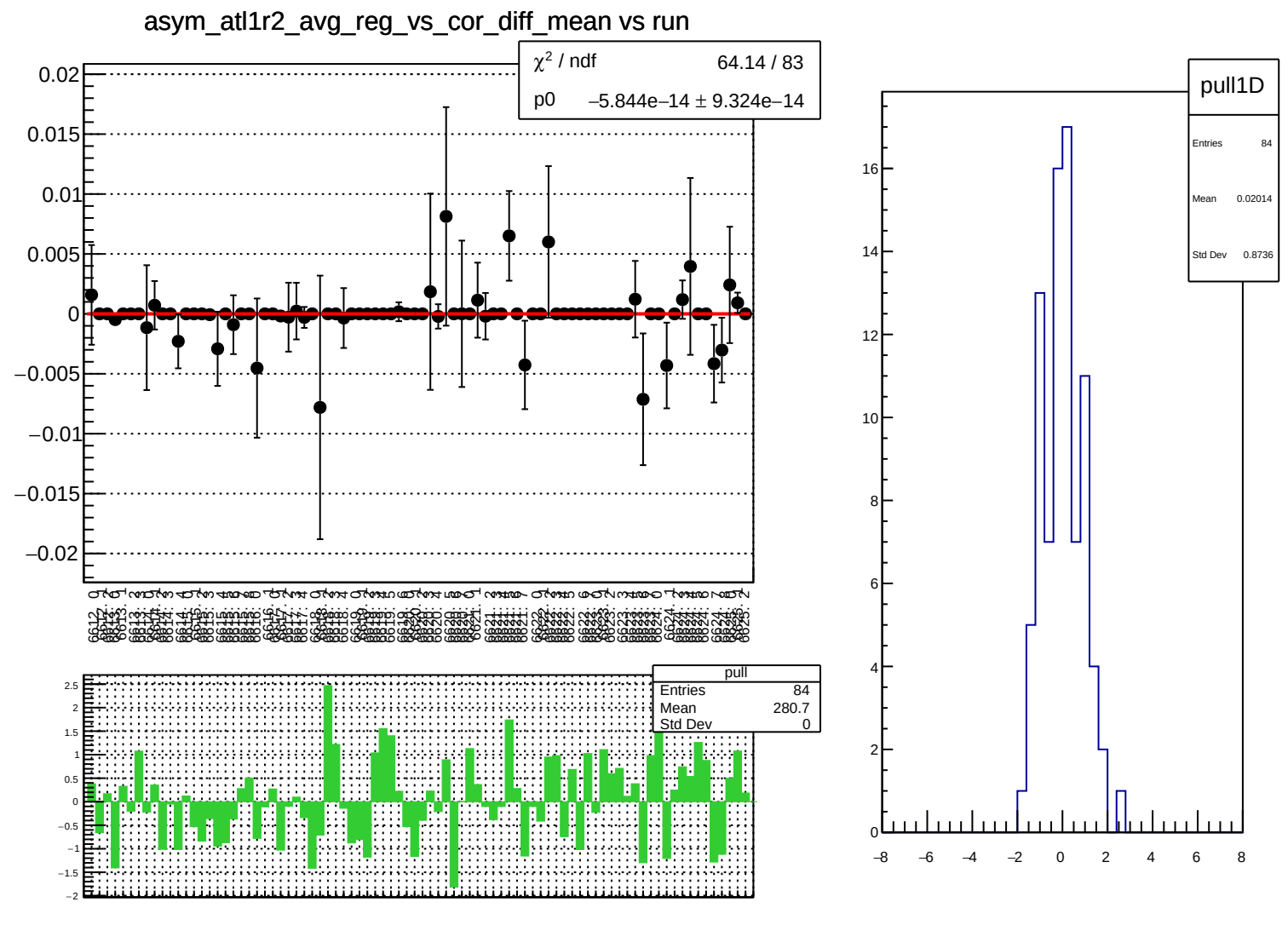

pull1D
Entries 84
Mean 0.009957
Std Dev 0.9836
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

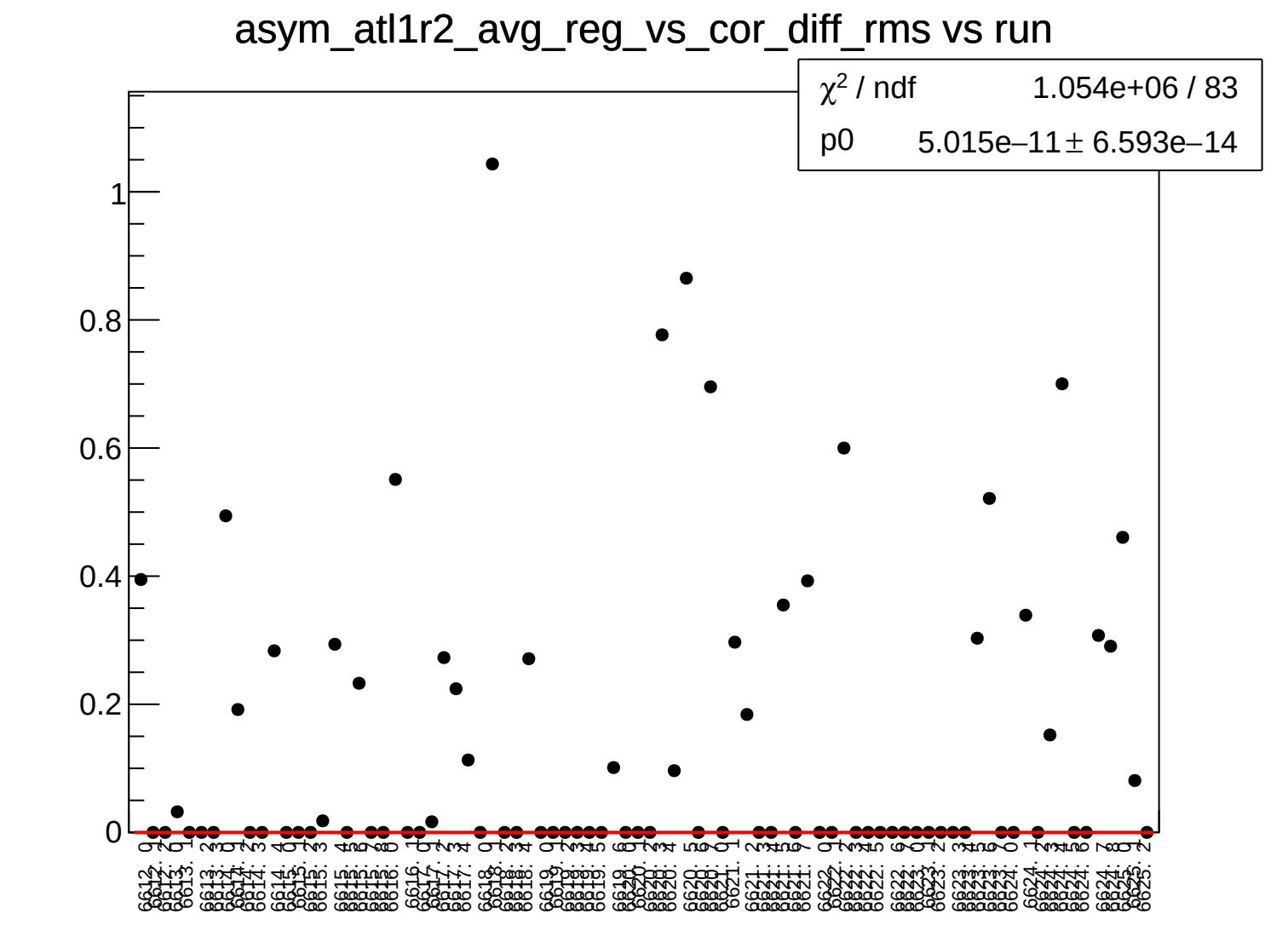

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 8066 / 83
p0 4137 ± 3.246
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

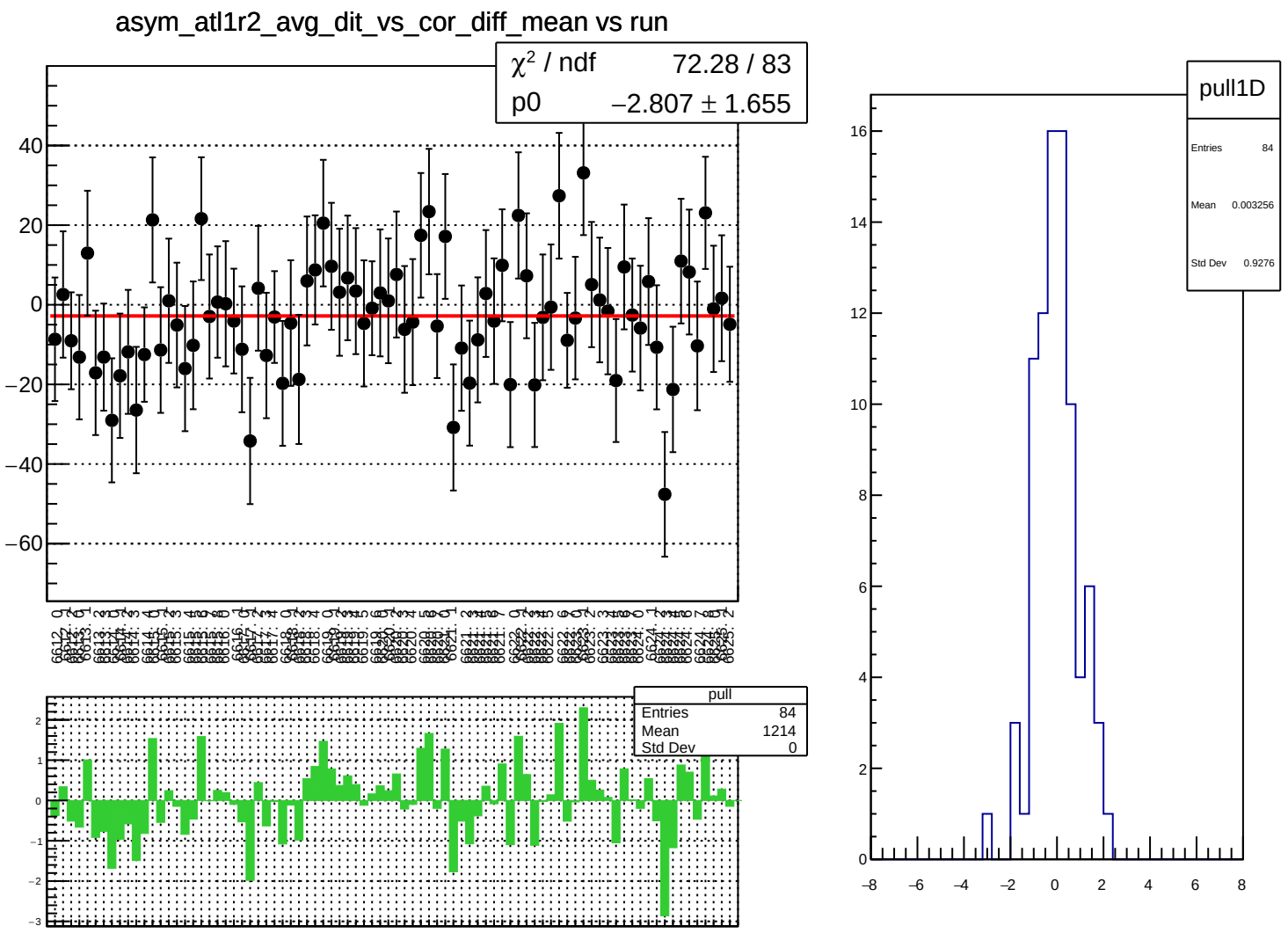

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 76.53 / 83
p0 4268 ± 4551
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 121.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

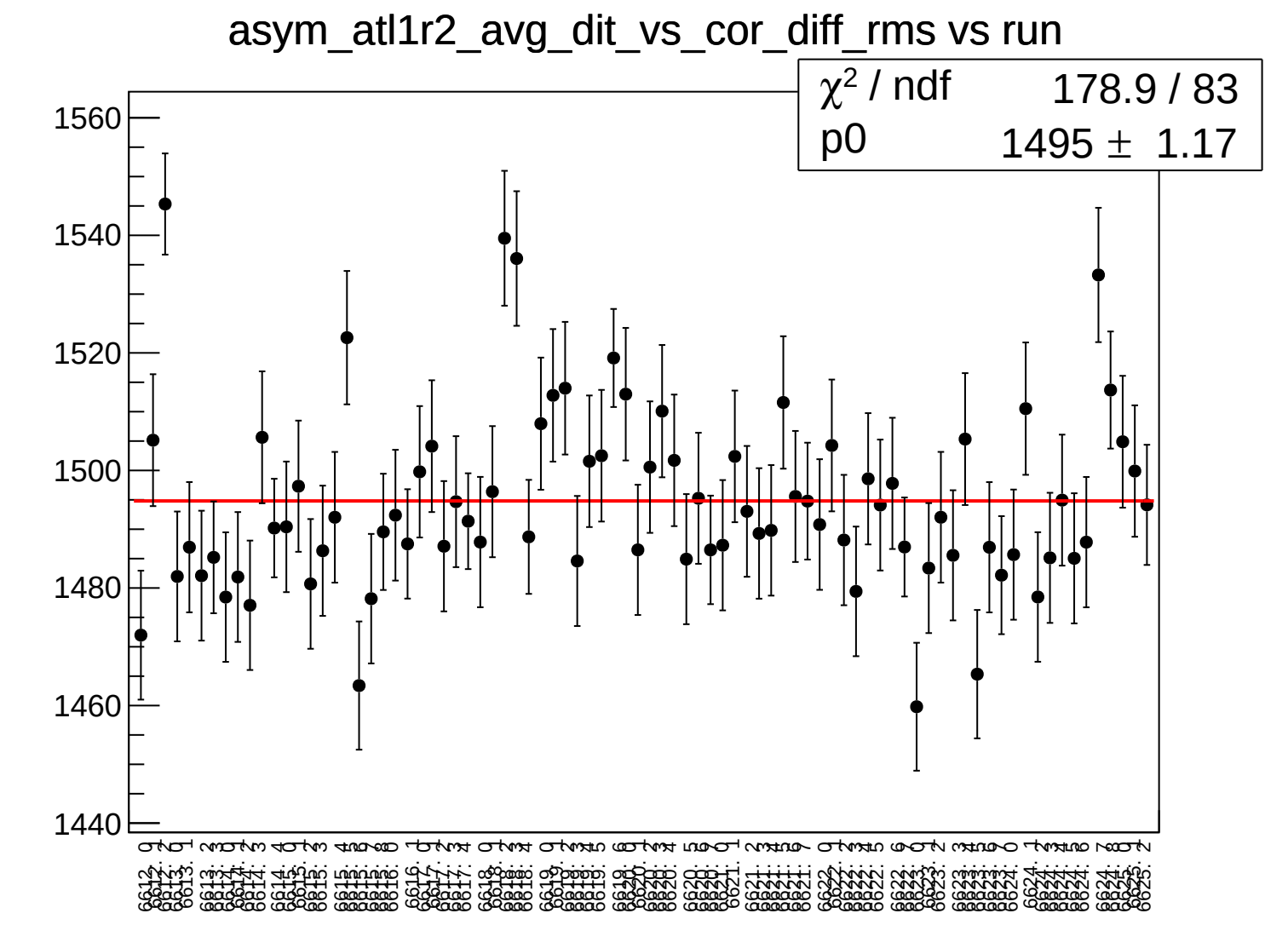

pull1D
Entries 84
Mean −0.00824
Std Dev 0.9545
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

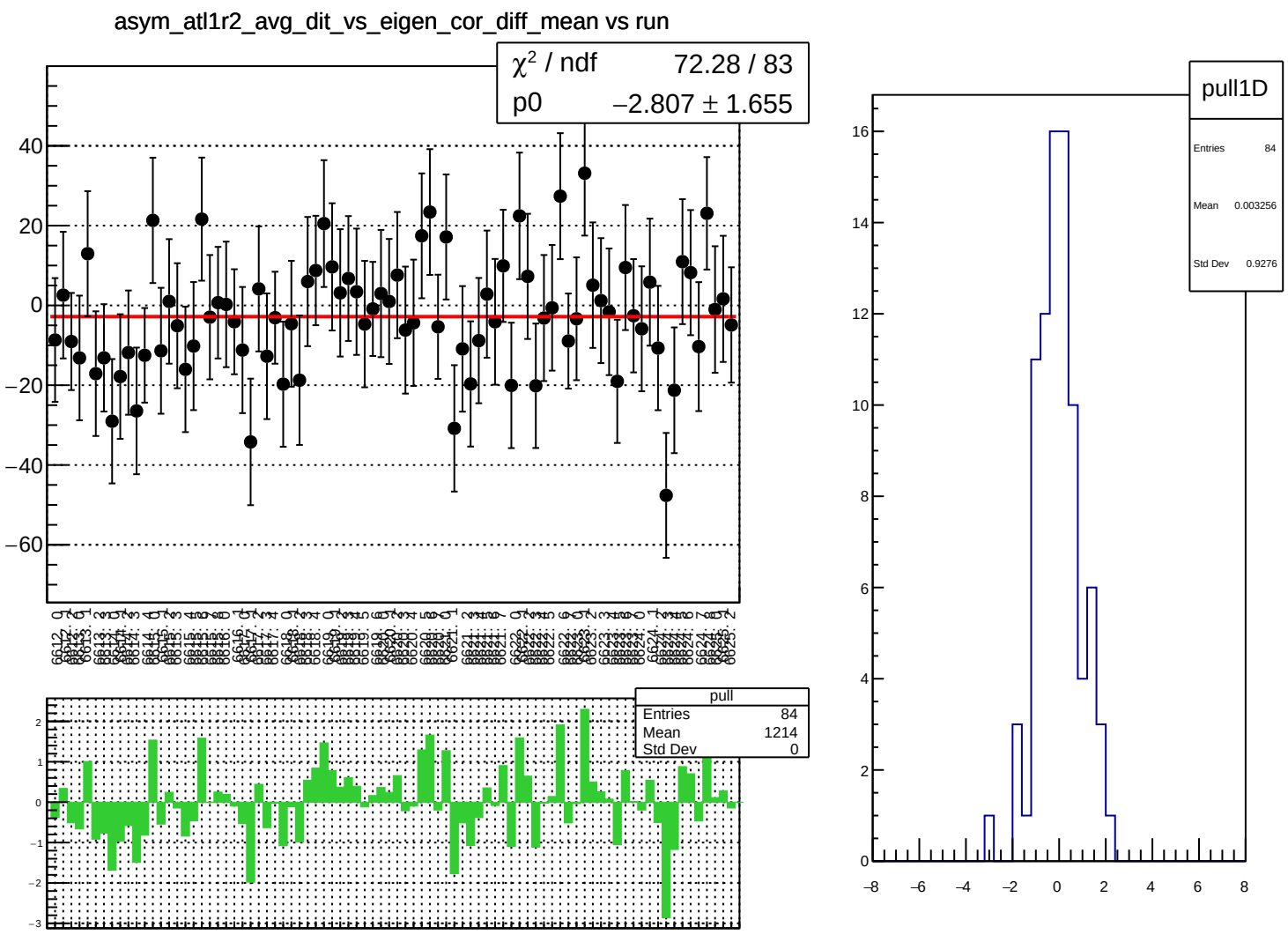

asym_atl1r2_avg_rms vs run
χ² / ndf 6647 / 83
p0 4104 ± 3.218
5200
5000
4800
4600
4400
4200
4000
3800
3600

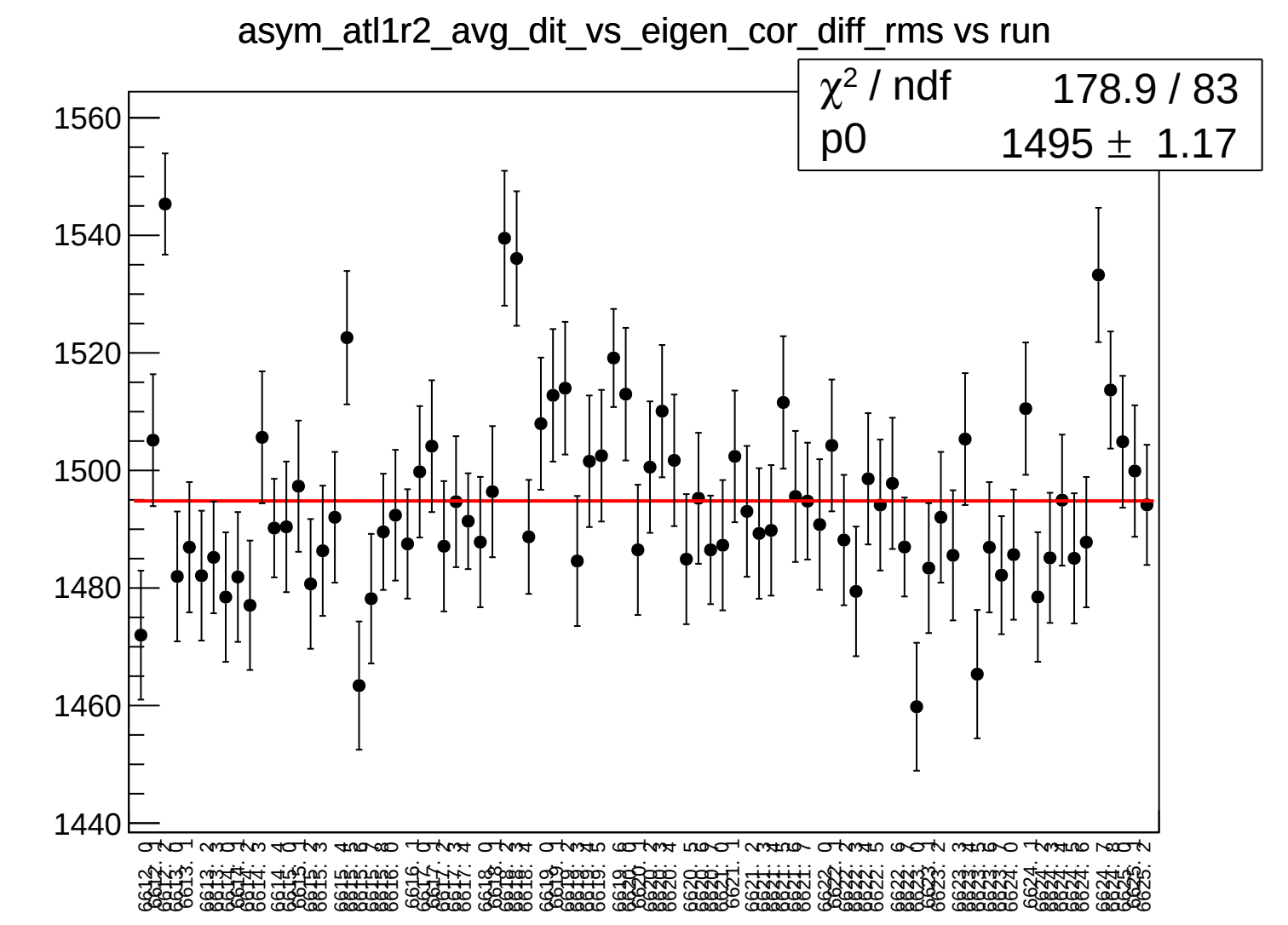

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 64.14 / 83
p0 −5.844e−14 ± 9.324e−14
pull
Entries 84
Mean 280.7
Std Dev 0
pull1D
Entries 84
Mean 0.02014
Std Dev 0.8736

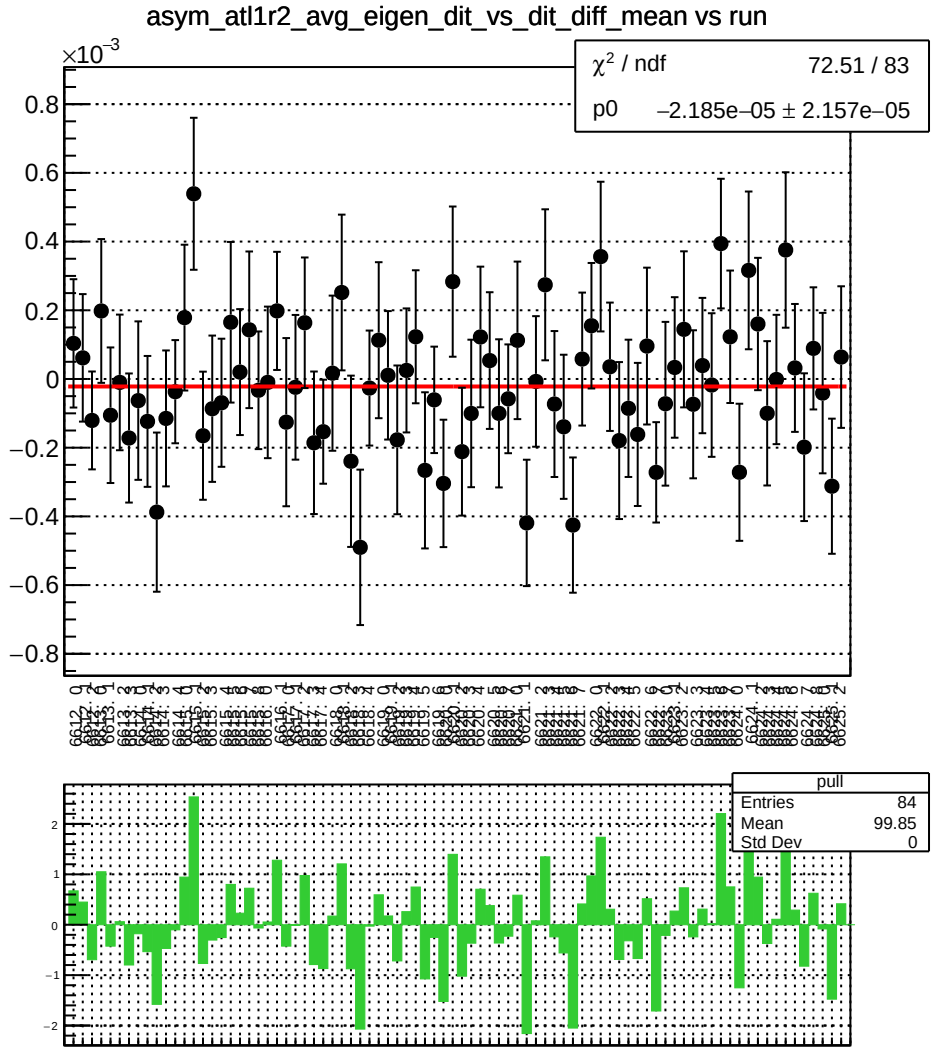

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.054e+06 / 83
p0 5.015e−11 ± 6.593e−14
1
0.8
0.6
0.4
0.2
0

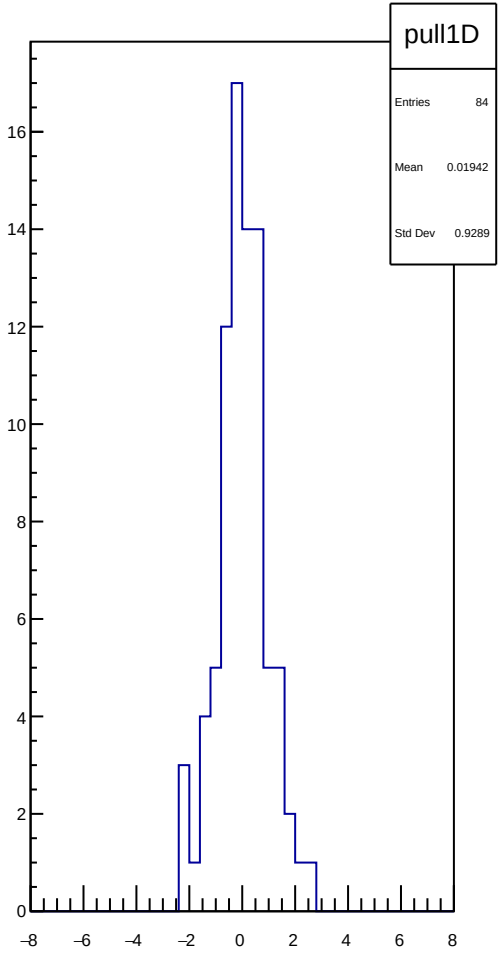

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.28 / 83
p0 −2.807 ± 1.655
pull
Entries 84
Mean 1214
Std Dev 0
pull1D
Entries 84
Mean 0.003256
Std Dev 0.9276

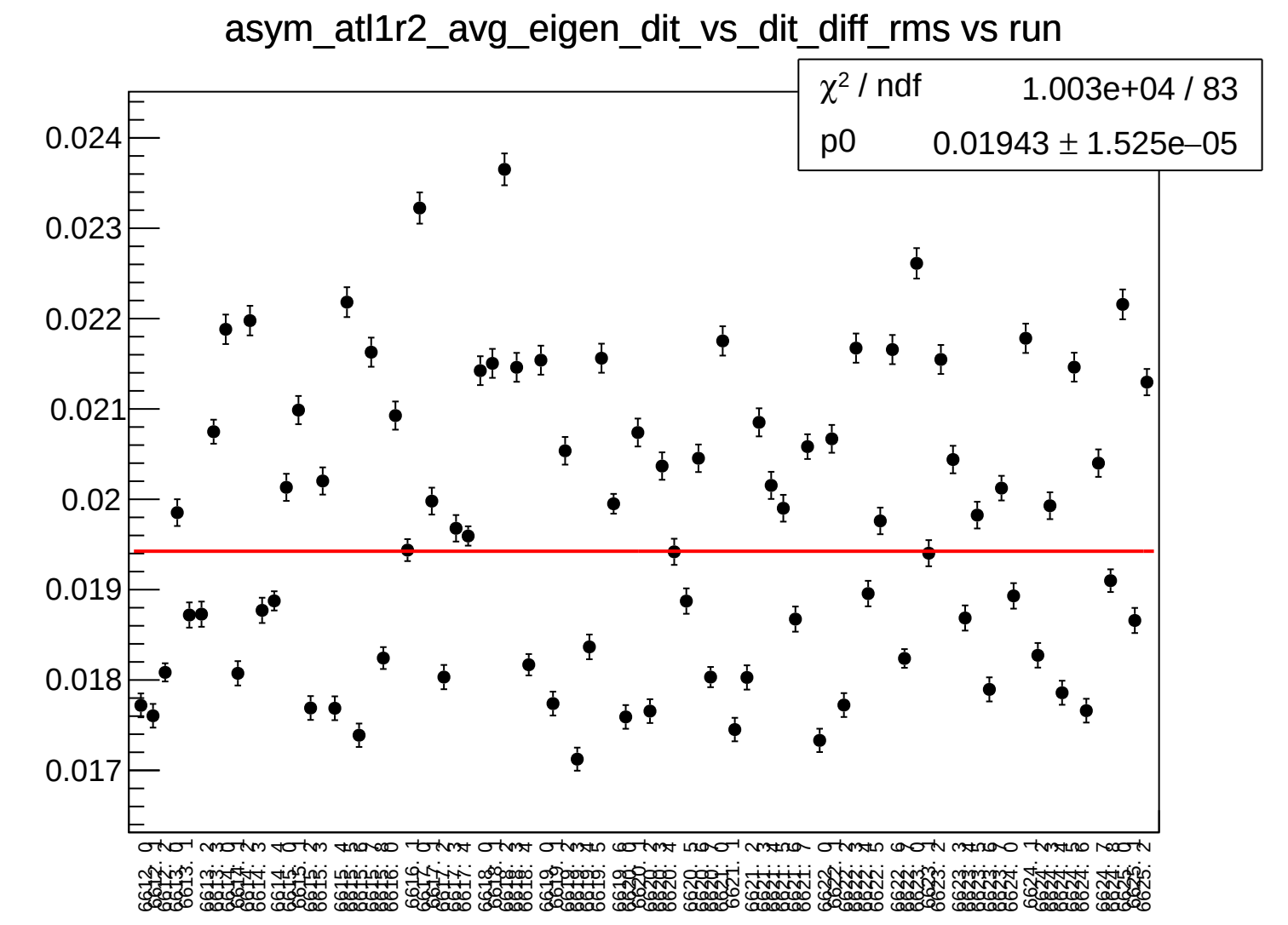

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 178.9 / 83
p0 1495 ± 1.17
1560
1540
1520
1500
1480
1460
1440

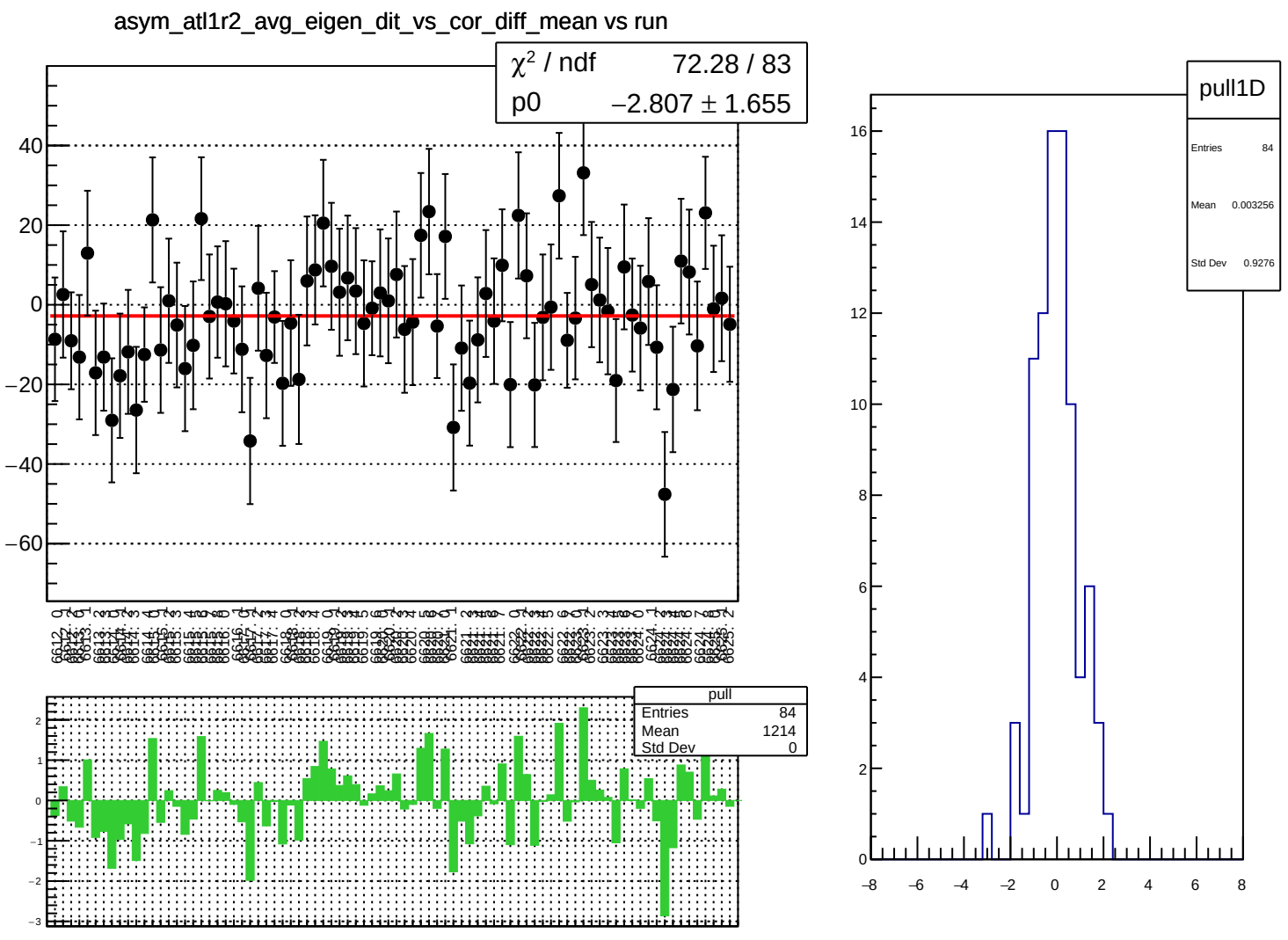

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.28 / 83
p0 −2.807 ± 1.655
pull
Entries 84
Mean 1214
Std Dev 0
pull1D
Entries 84
Mean 0.003256
Std Dev 0.9276

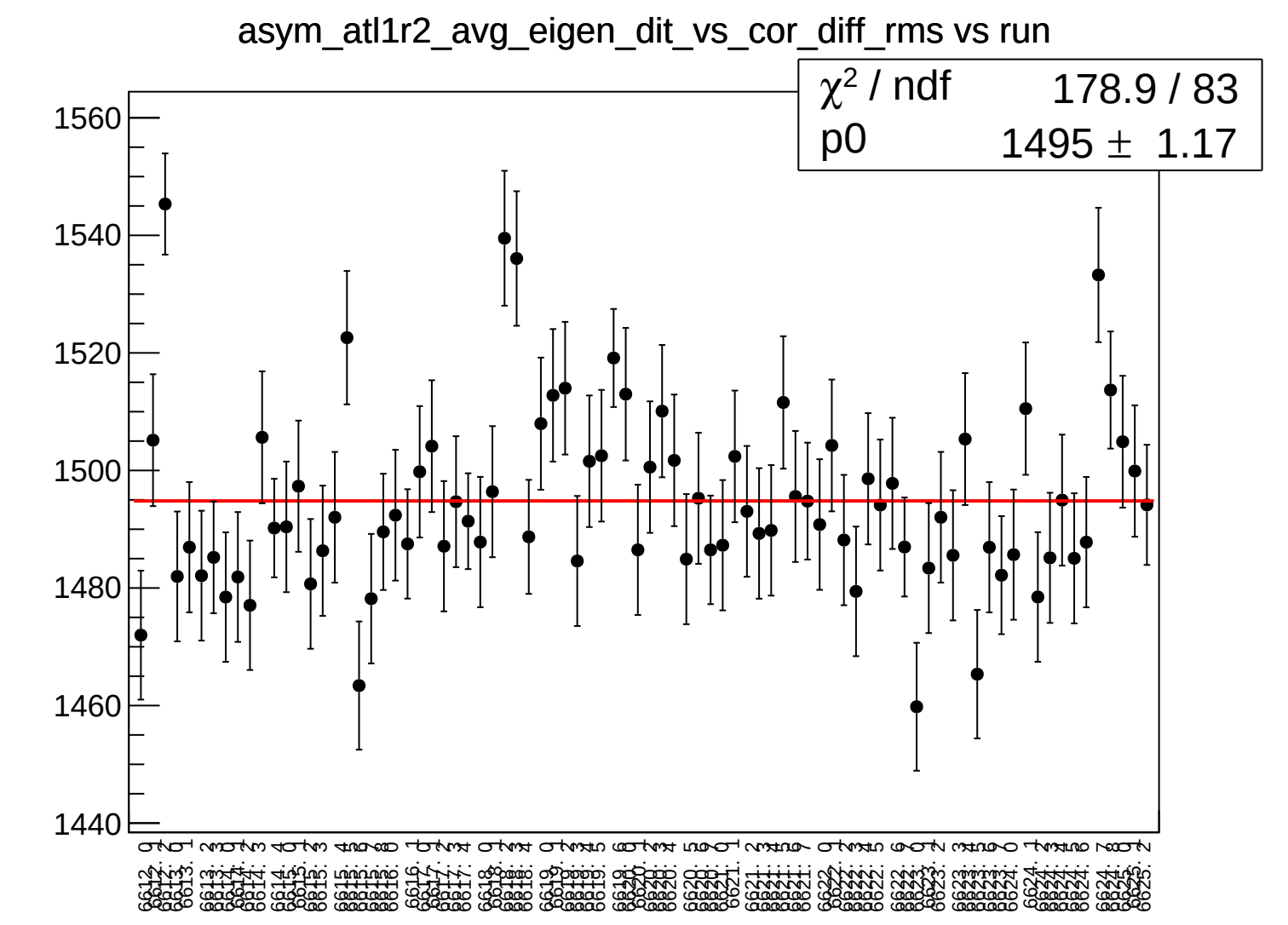

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 178.9 / 83
p0 1495 ± 1.17
1560
1540
1520
1500
1480
1460
1440

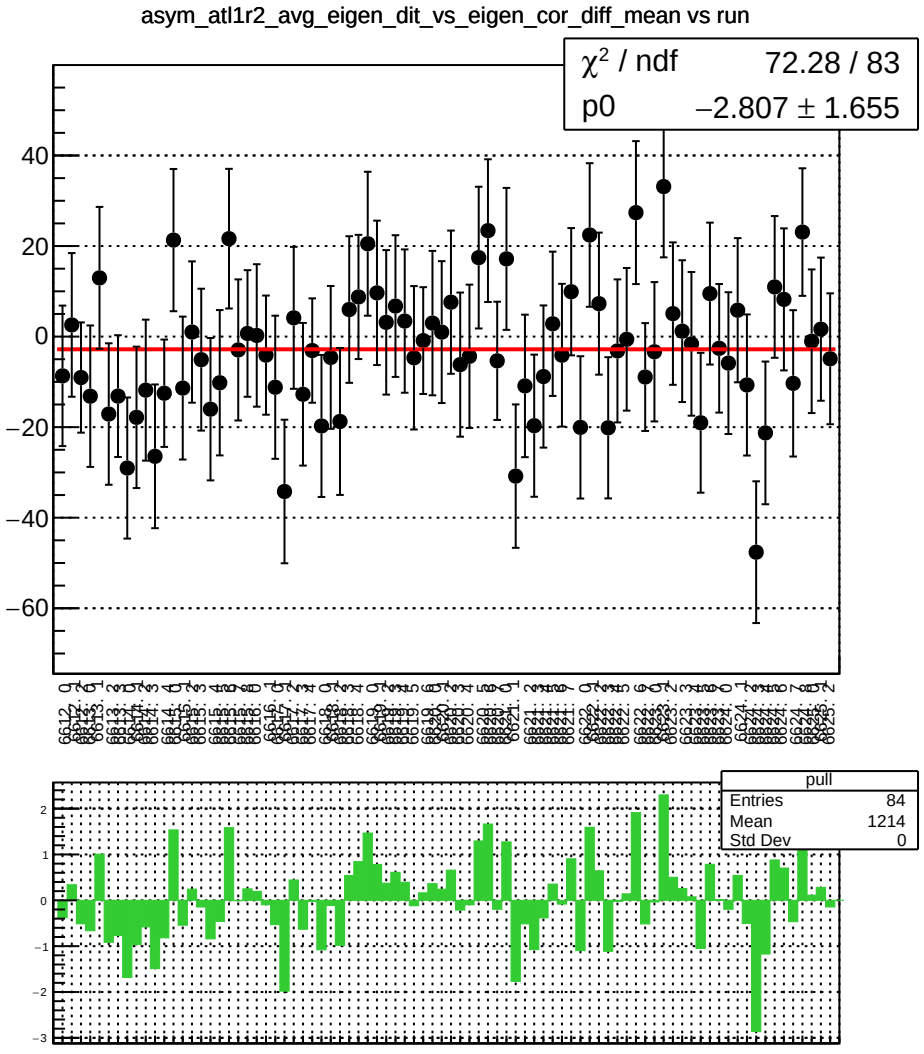

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.51 / 83
p0 −2.185e−05 ± 2.157e−05
pull
Entries 84
Mean 99.85
Std Dev 0

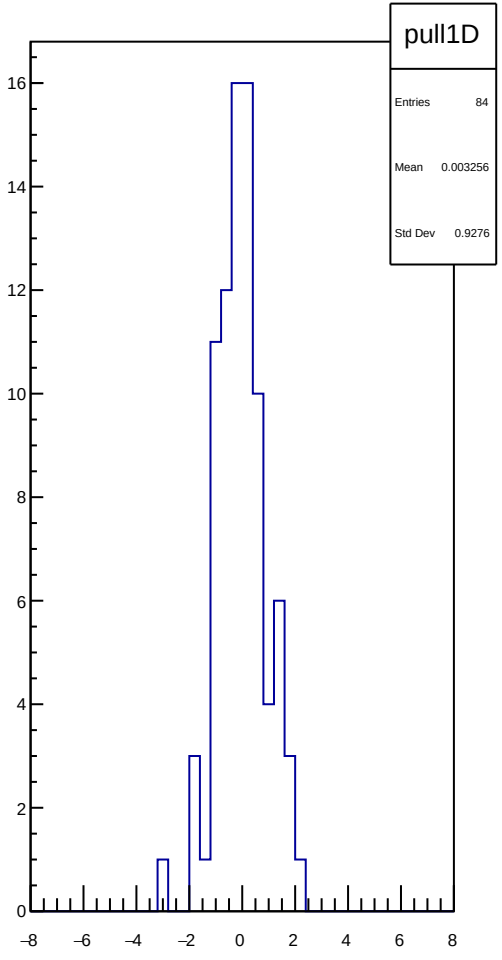

pull1D
Entries 84
Mean 0.01942
Std Dev 0.9289

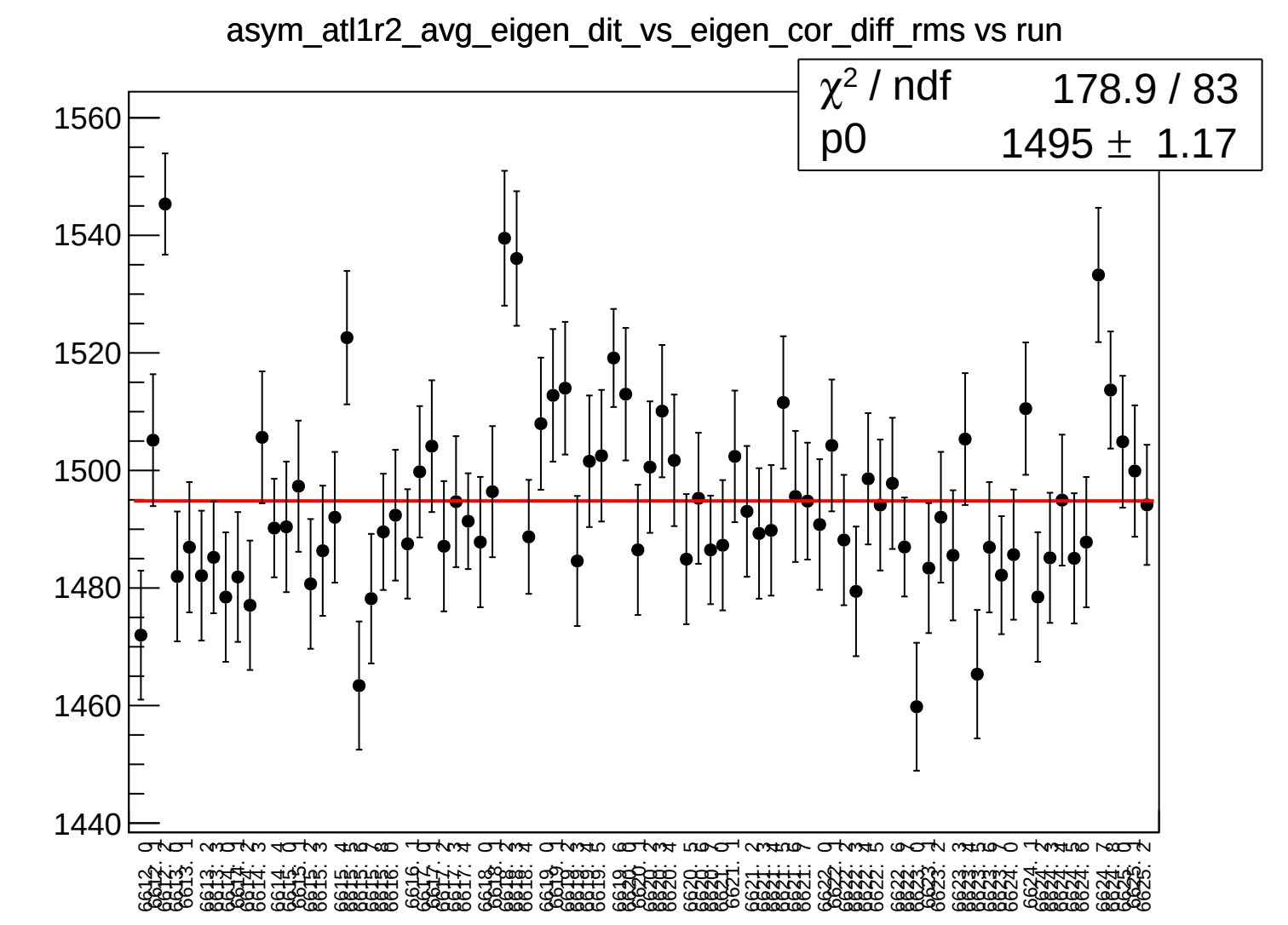

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.003e+04 / 83
p0 0.01943 ± 1.525e−05
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017

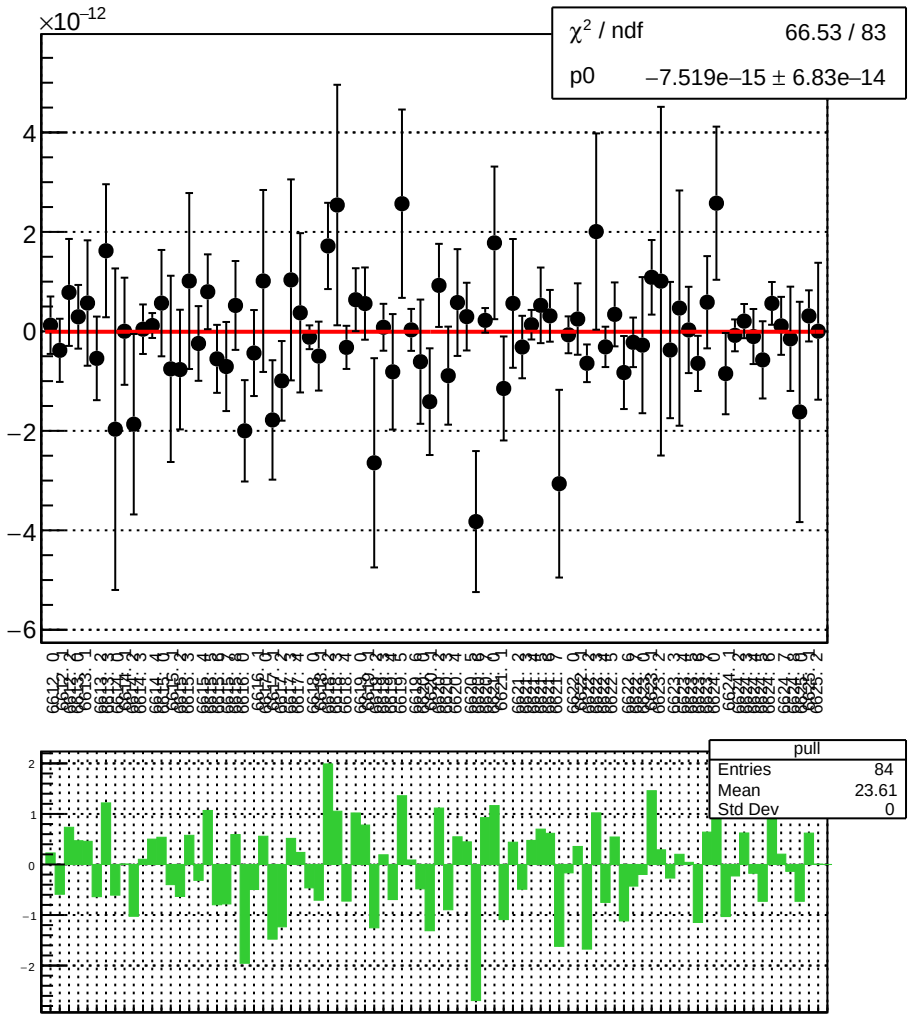

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.28 / 83
p0 −2.807 ± 1.655
pull
Entries 84
Mean 1214
Std Dev 0
pull1D
Entries 84
Mean 0.003256
Std Dev 0.9276

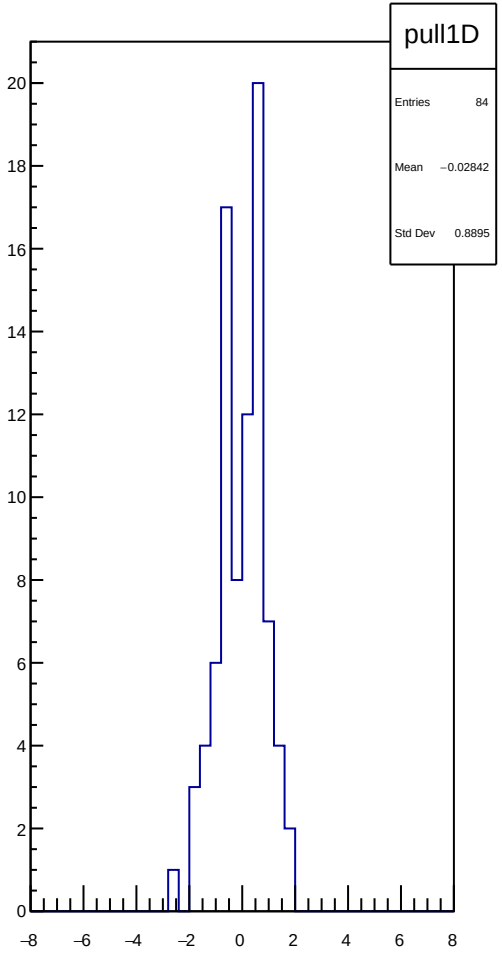

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 178.9 / 83
p0 1495 ± 1.17
1560
1540
1520
1500
1480
1460
1440

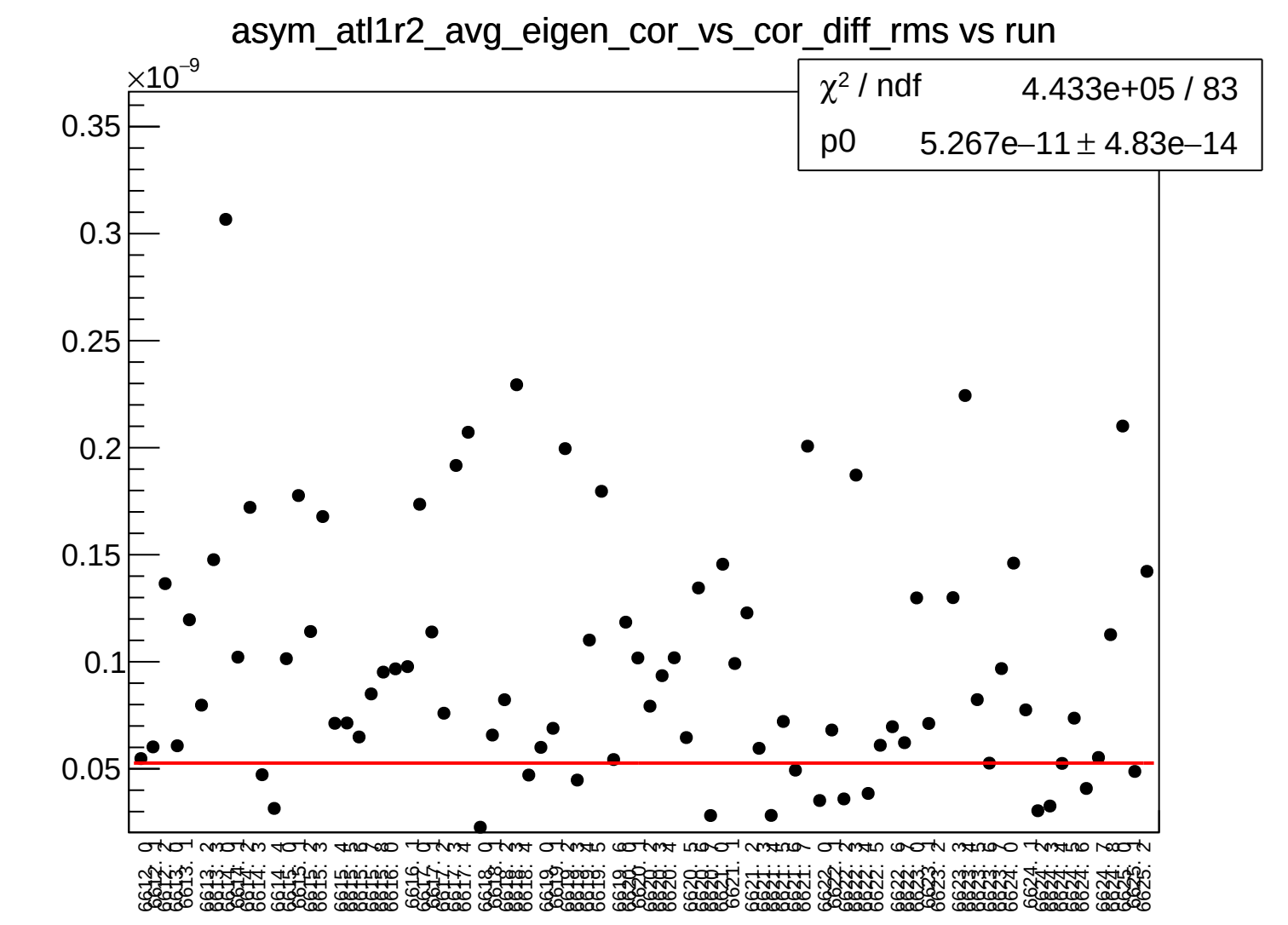

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.28 / 83
p0 −2.807 ± 1.655
pull
Entries 84
Mean 1214
Std Dev 0

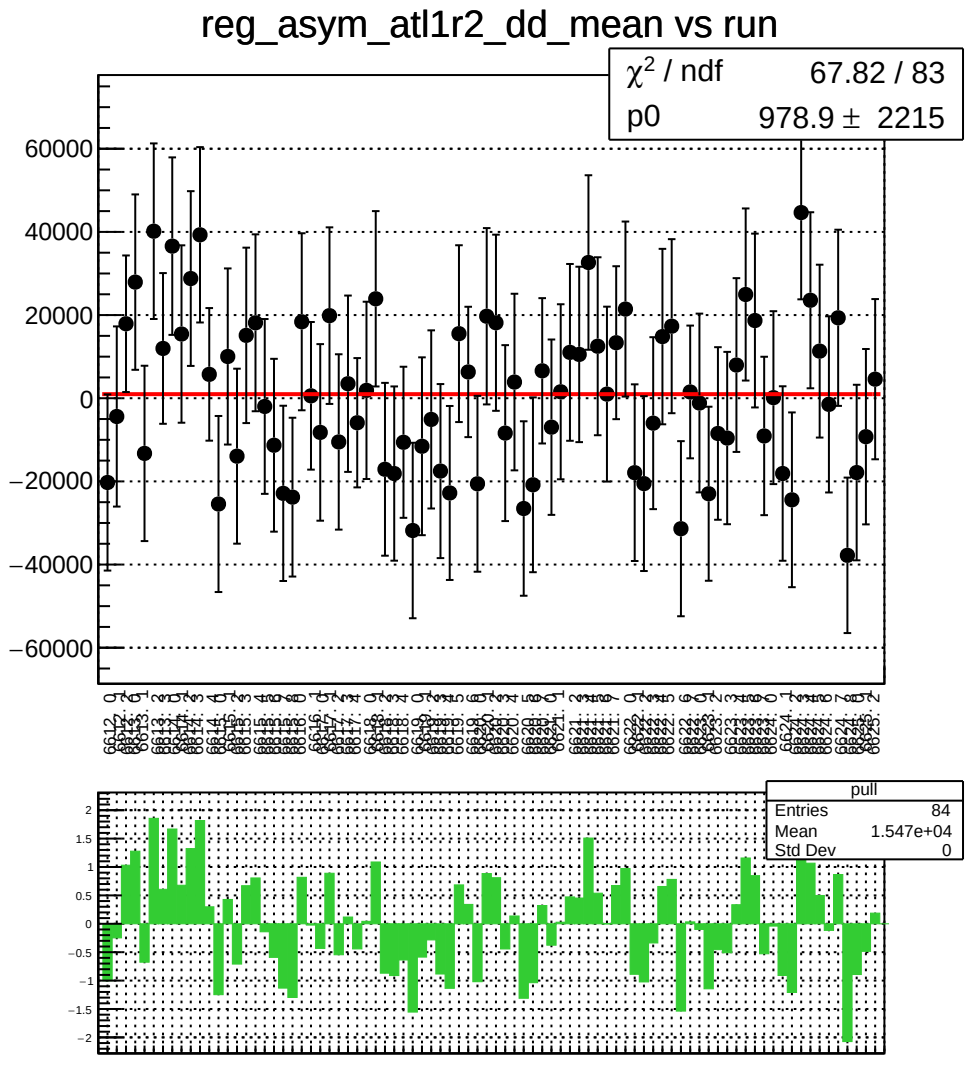

pull1D
Entries 84
Mean 0.003256
Std Dev 0.9276

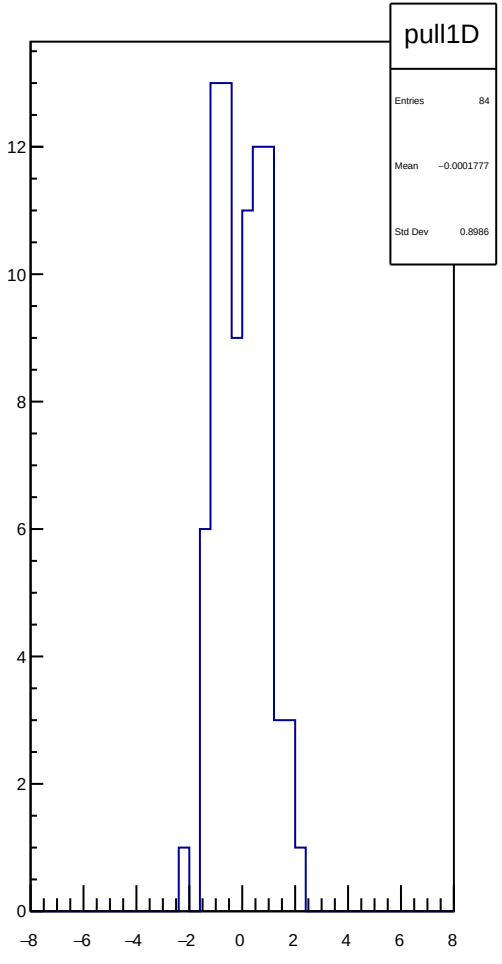

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 178.9 / 83
p0 1495 ± 1.17
1560
1540
1520
1500
1480
1460
1440

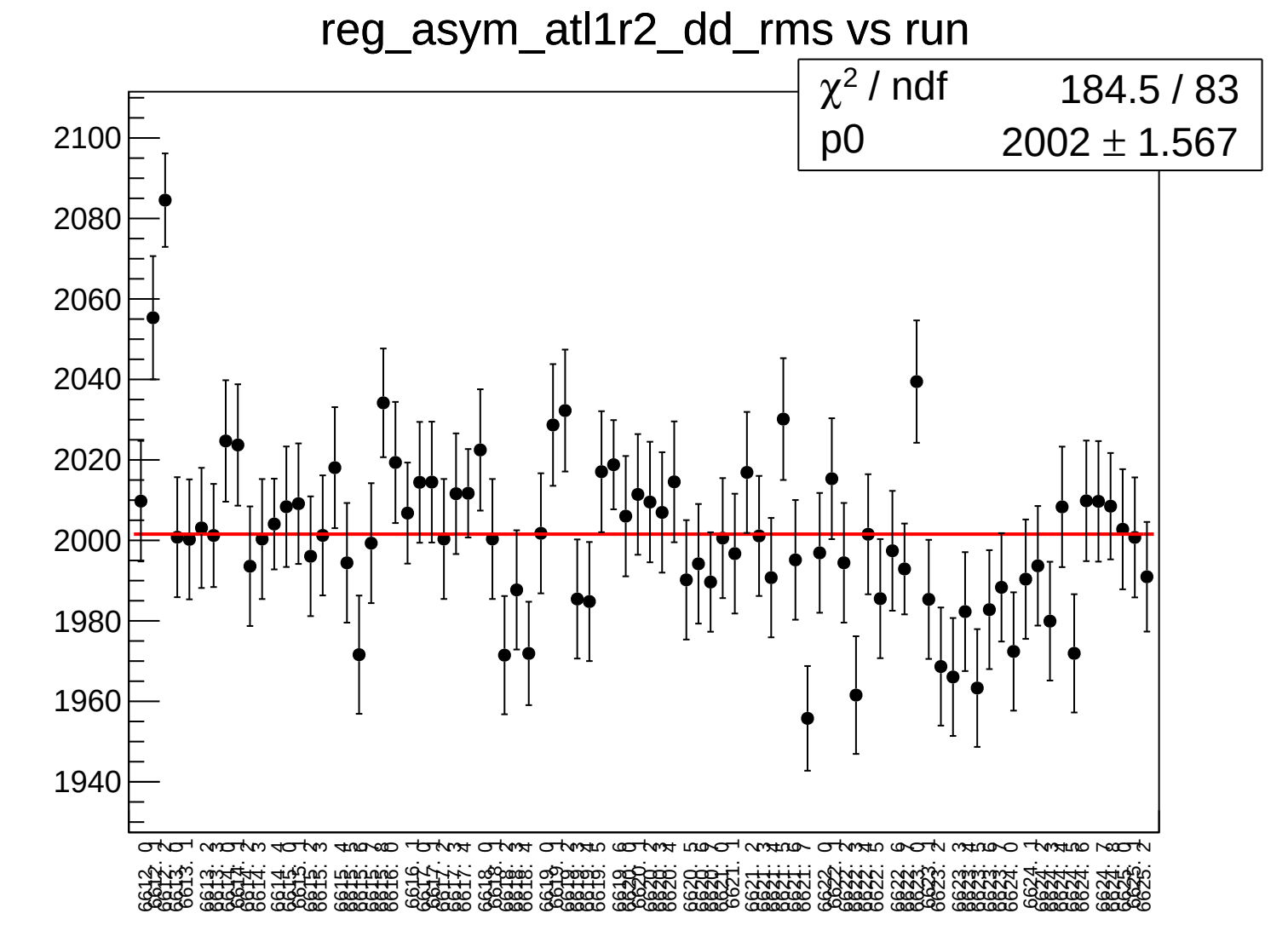

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.53 / 83
p0 −7.519e−15 ± 6.83e−14
pull
Entries 84
Mean 23.61
Std Dev 0

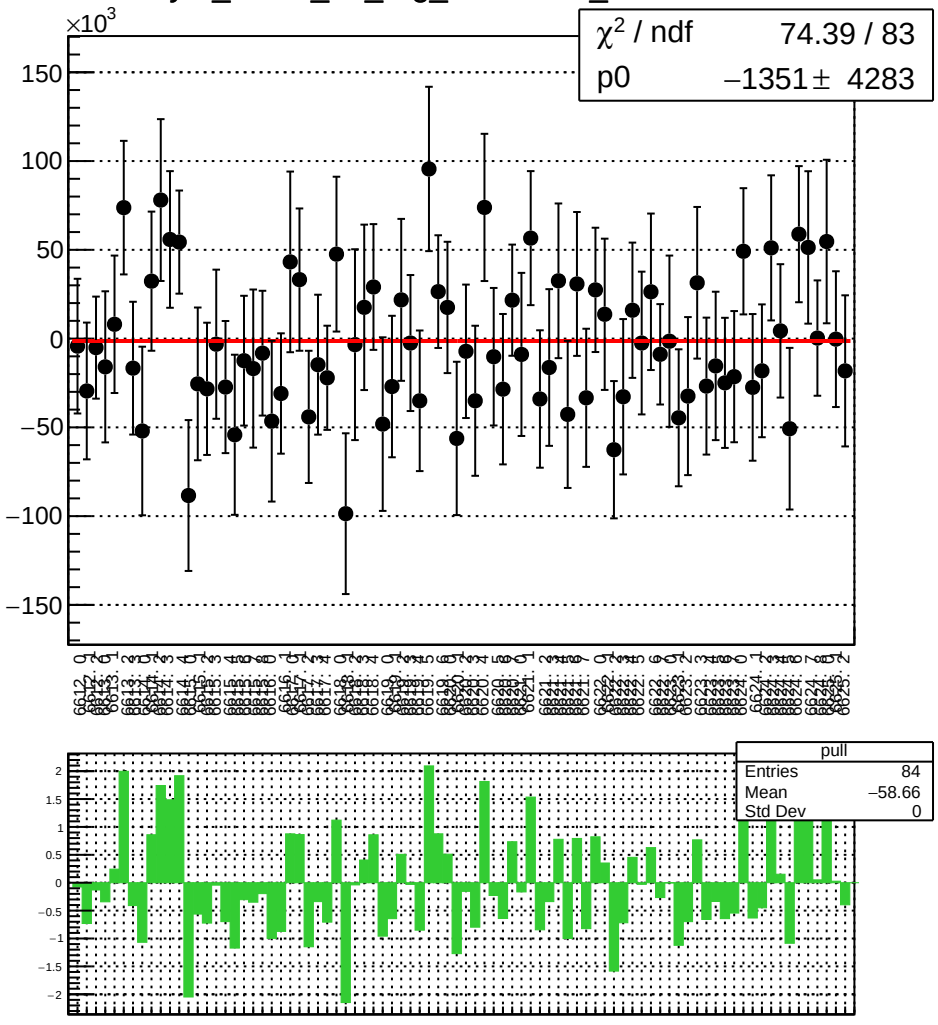

pull1D
Entries 84
Mean −0.02842
Std Dev 0.8895

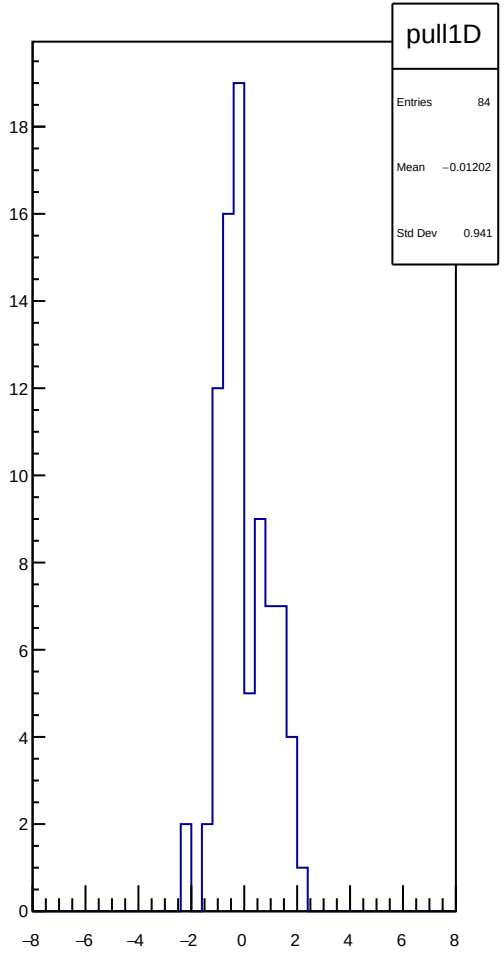

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.433e+05 / 83
p0 5.267e−11 ± 4.83e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

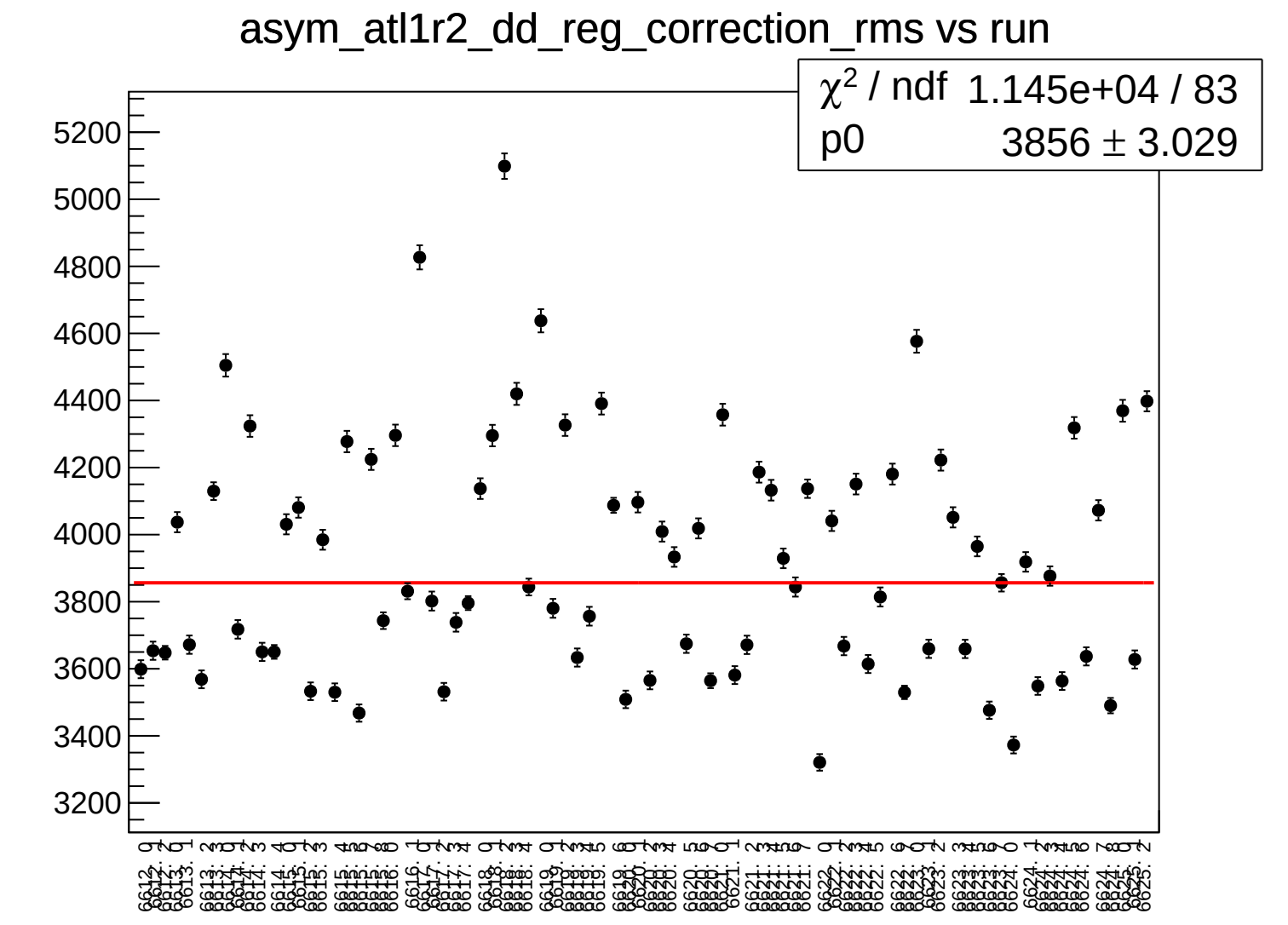

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 67.82 / 83
p0 978.9 ± 2215
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1.547e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

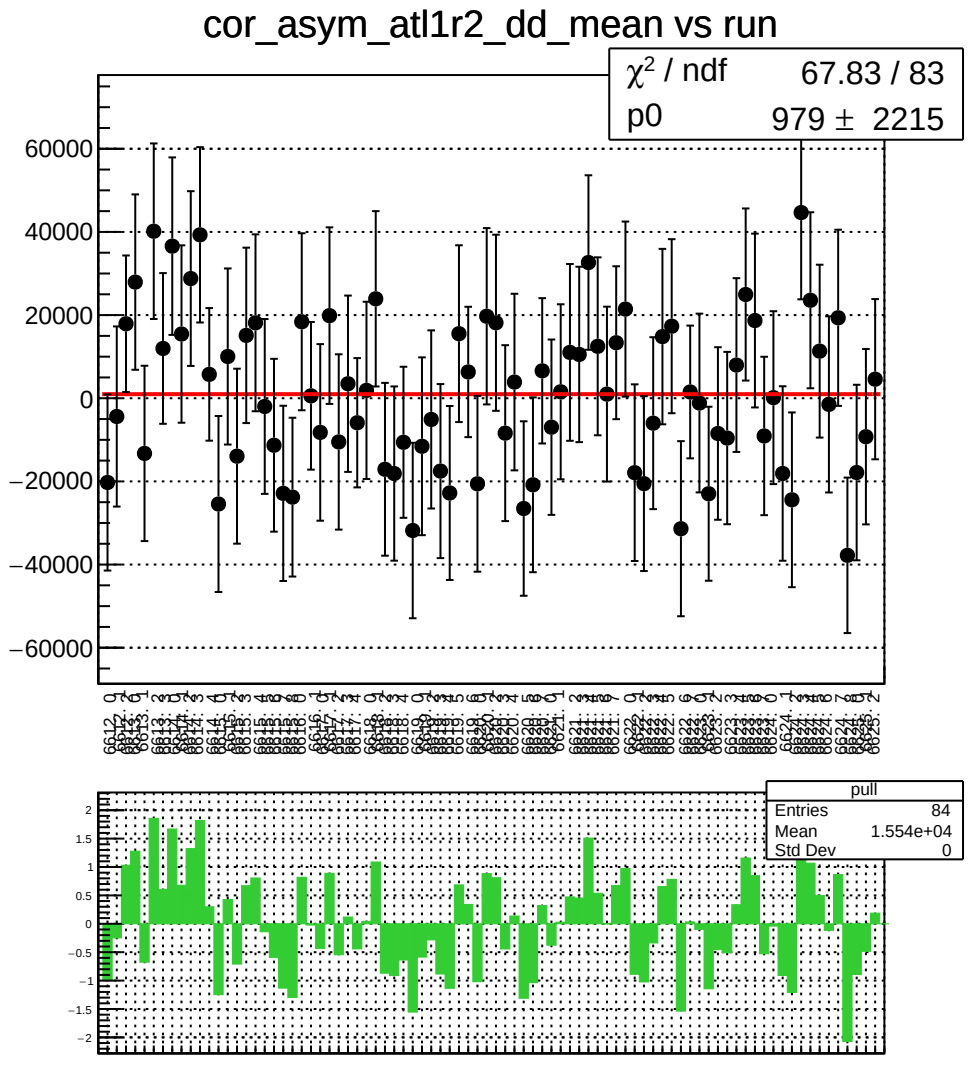

pull1D
Entries 84
Mean −0.0001777
Std Dev 0.8986
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

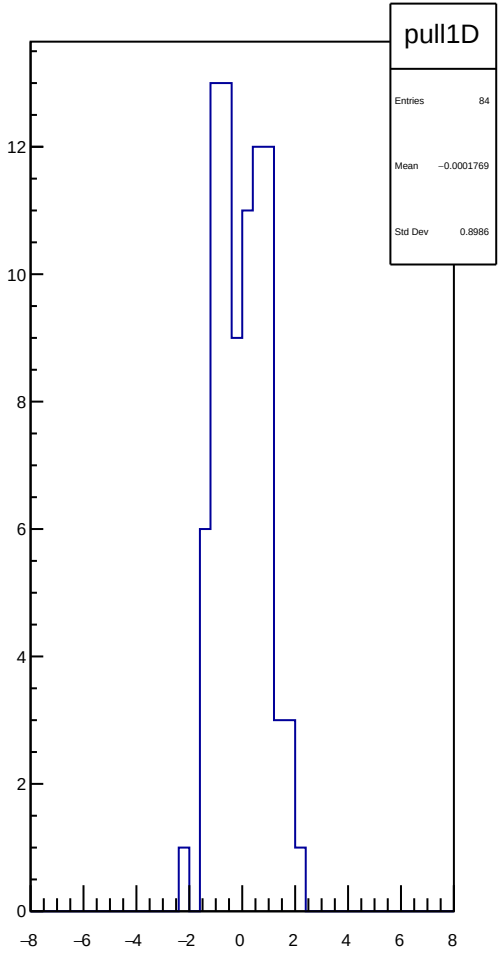

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 184.5 / 83
p0 2002 ± 1.567
2100
2080
2060
2040
2020
2000
1980
1960
1940

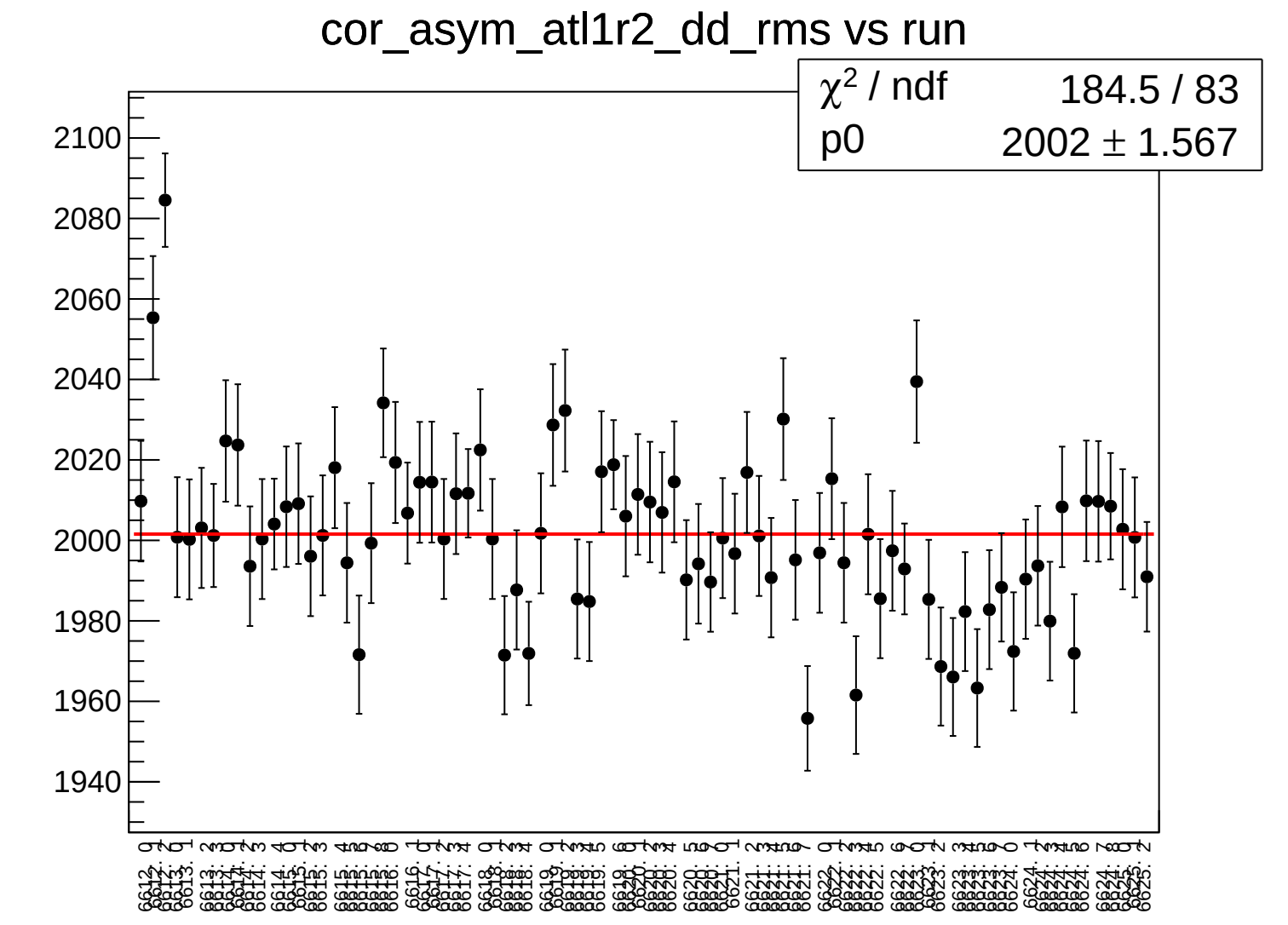

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 74.39 / 83
p0 −1351 ± 4283
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −58.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

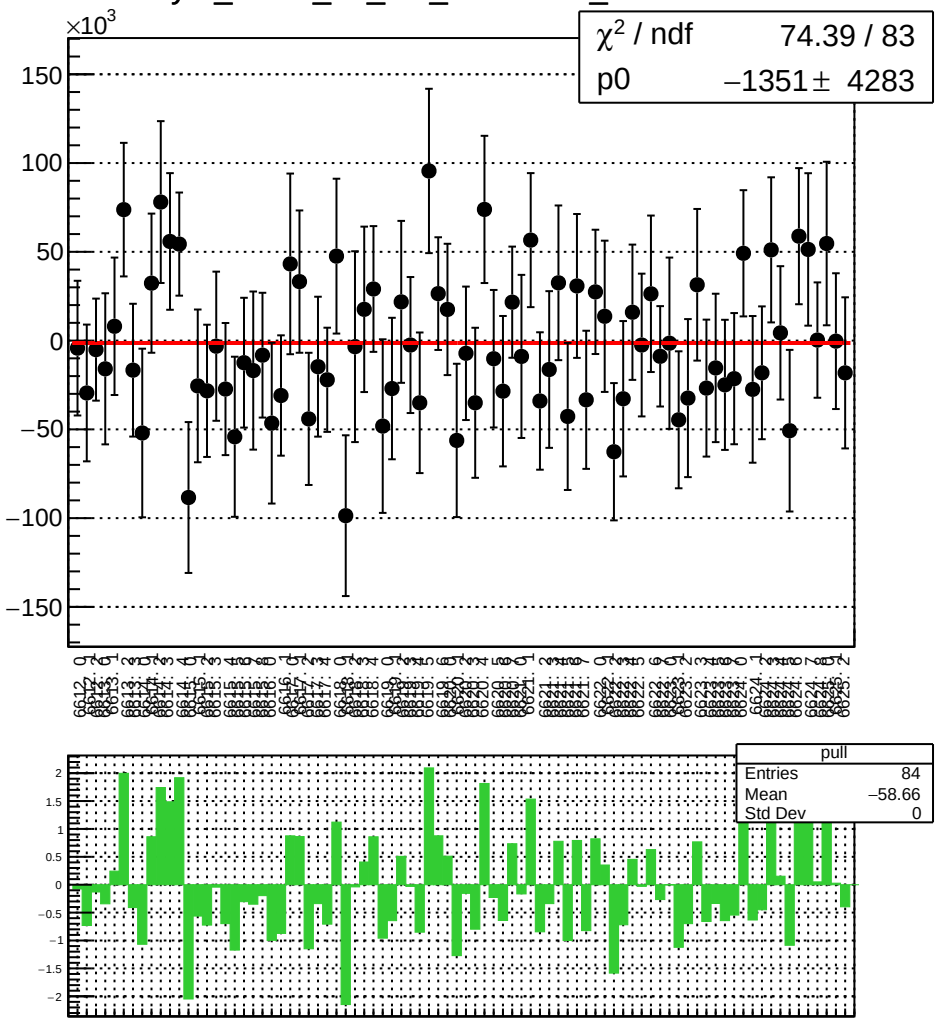

pull1D
Entries 84
Mean −0.01202
Std Dev 0.941
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

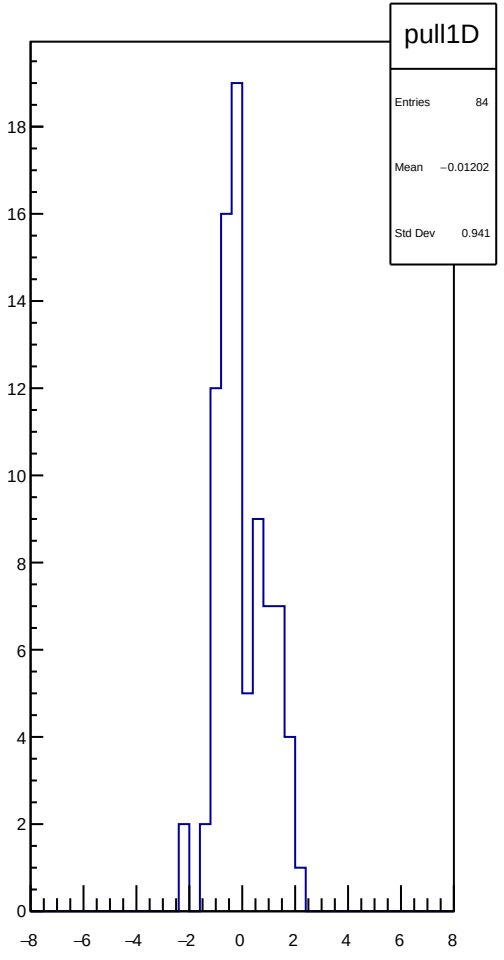

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 1.145e+04 / 83
p0 3856 ± 3.029
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

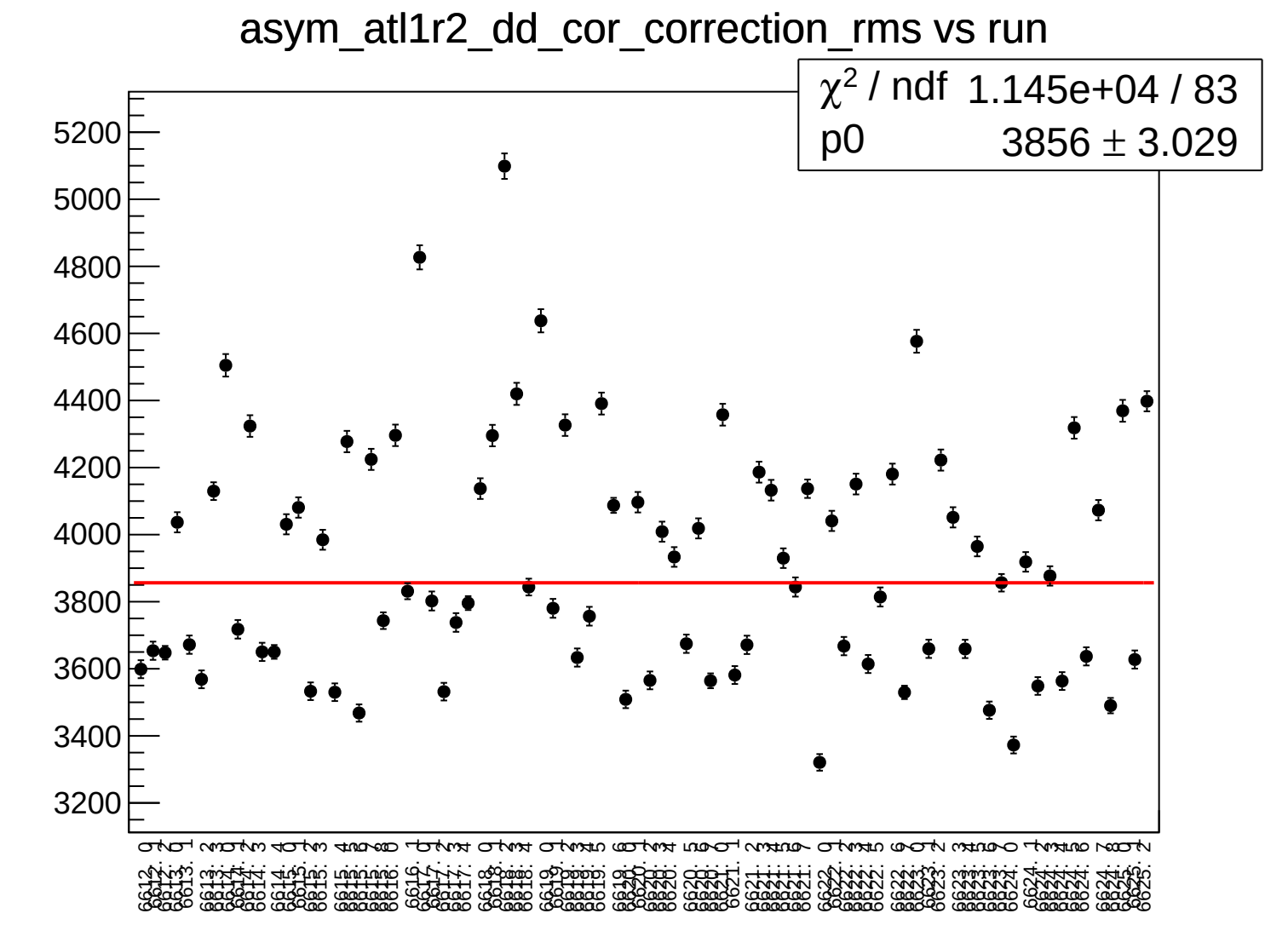

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 67.83 / 83
p0 979 ± 2215
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1.554e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

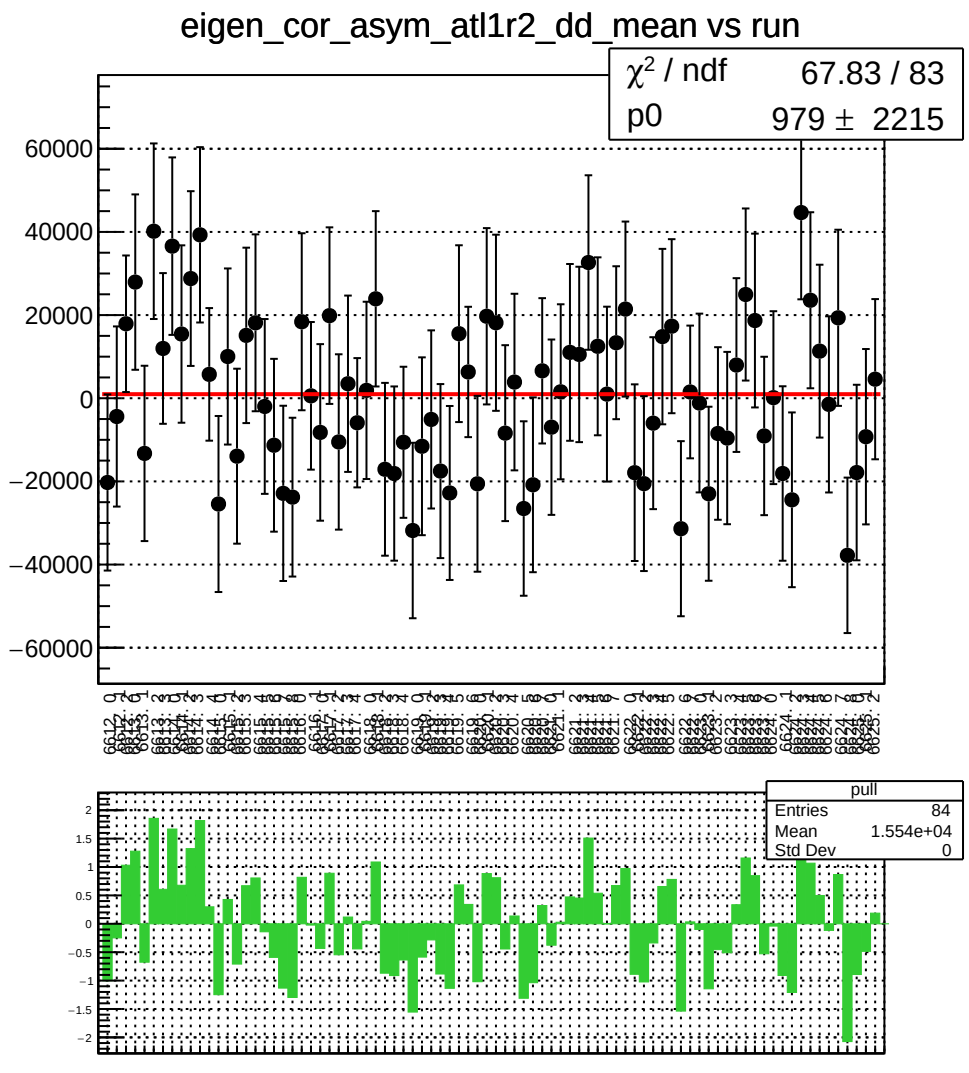

pull1D
Entries 84
Mean −0.0001769
Std Dev 0.8986
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

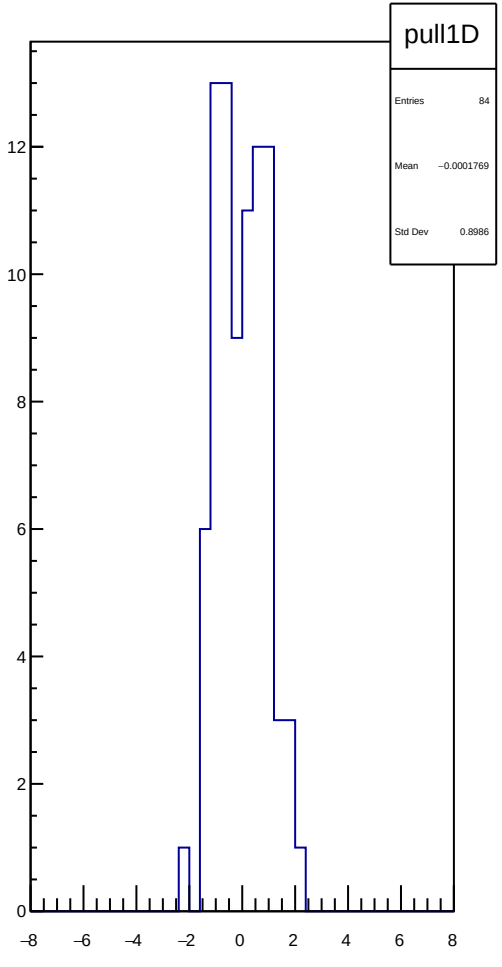

cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 184.5 / 83
p0 2002 ± 1.567
2100
2080
2060
2040
2020
2000
1980
1960
1940

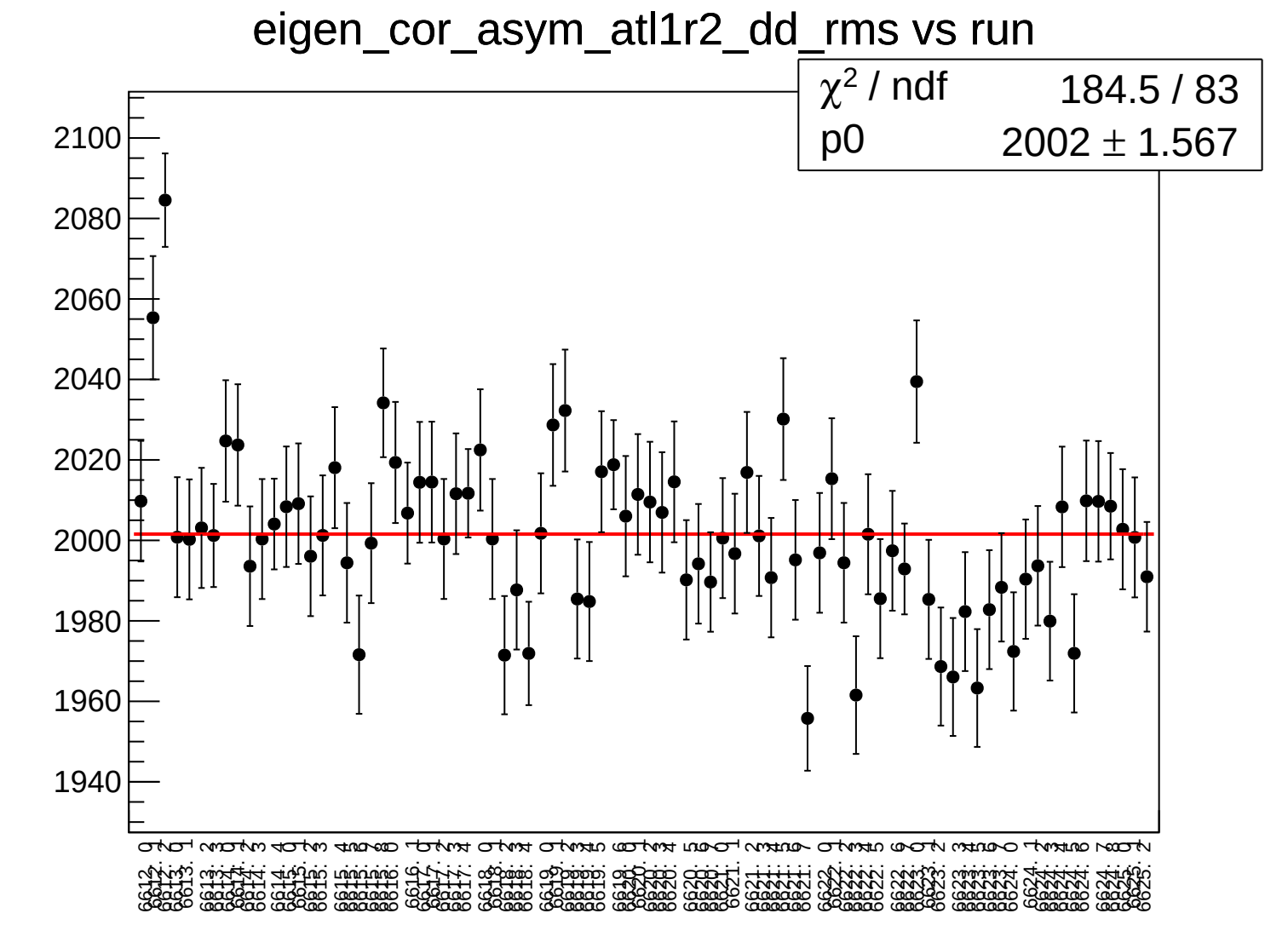

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 74.39 / 83
p0 −1351 ± 4283
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −58.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

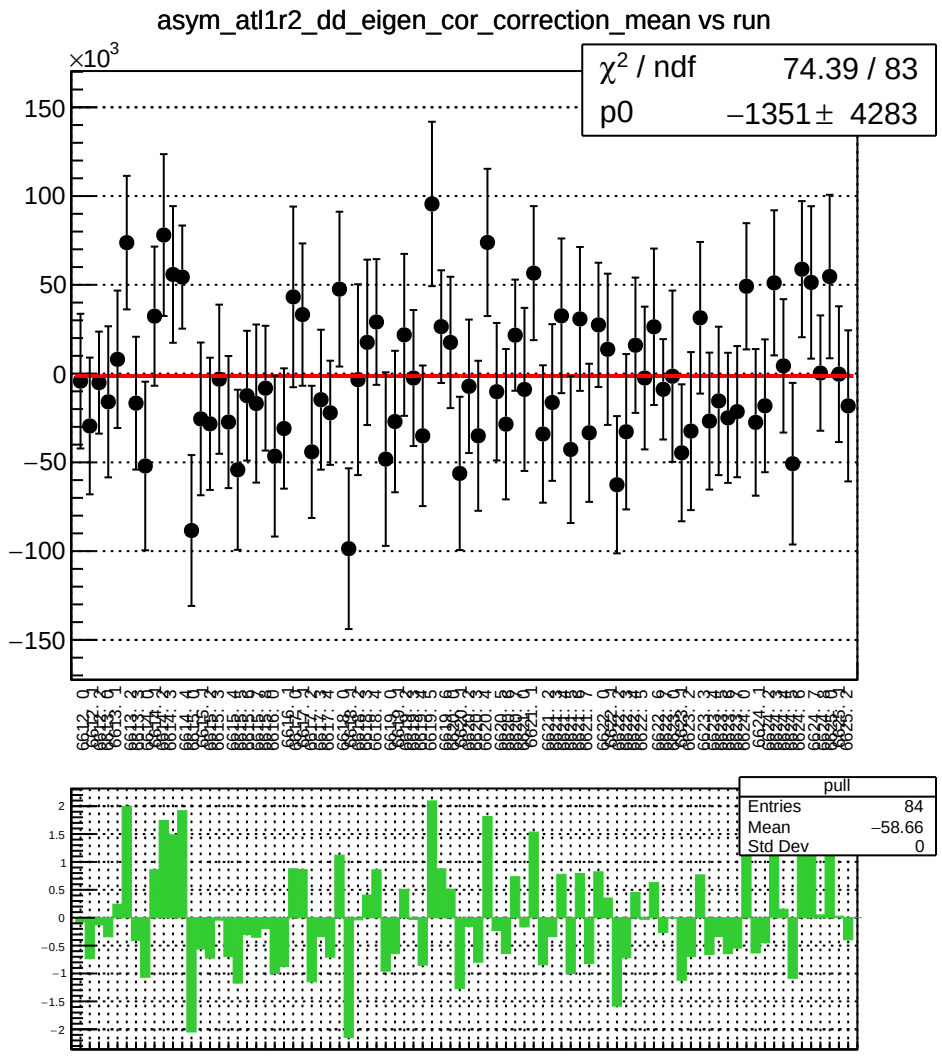

pull1D
Entries 84
Mean −0.01202
Std Dev 0.941
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

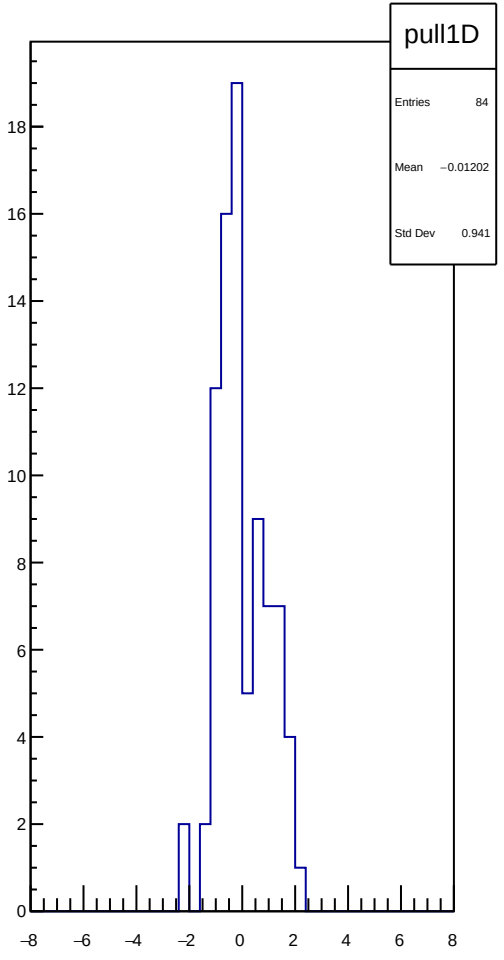

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 1.145e+04 / 83
p0 3856 ± 3.029
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

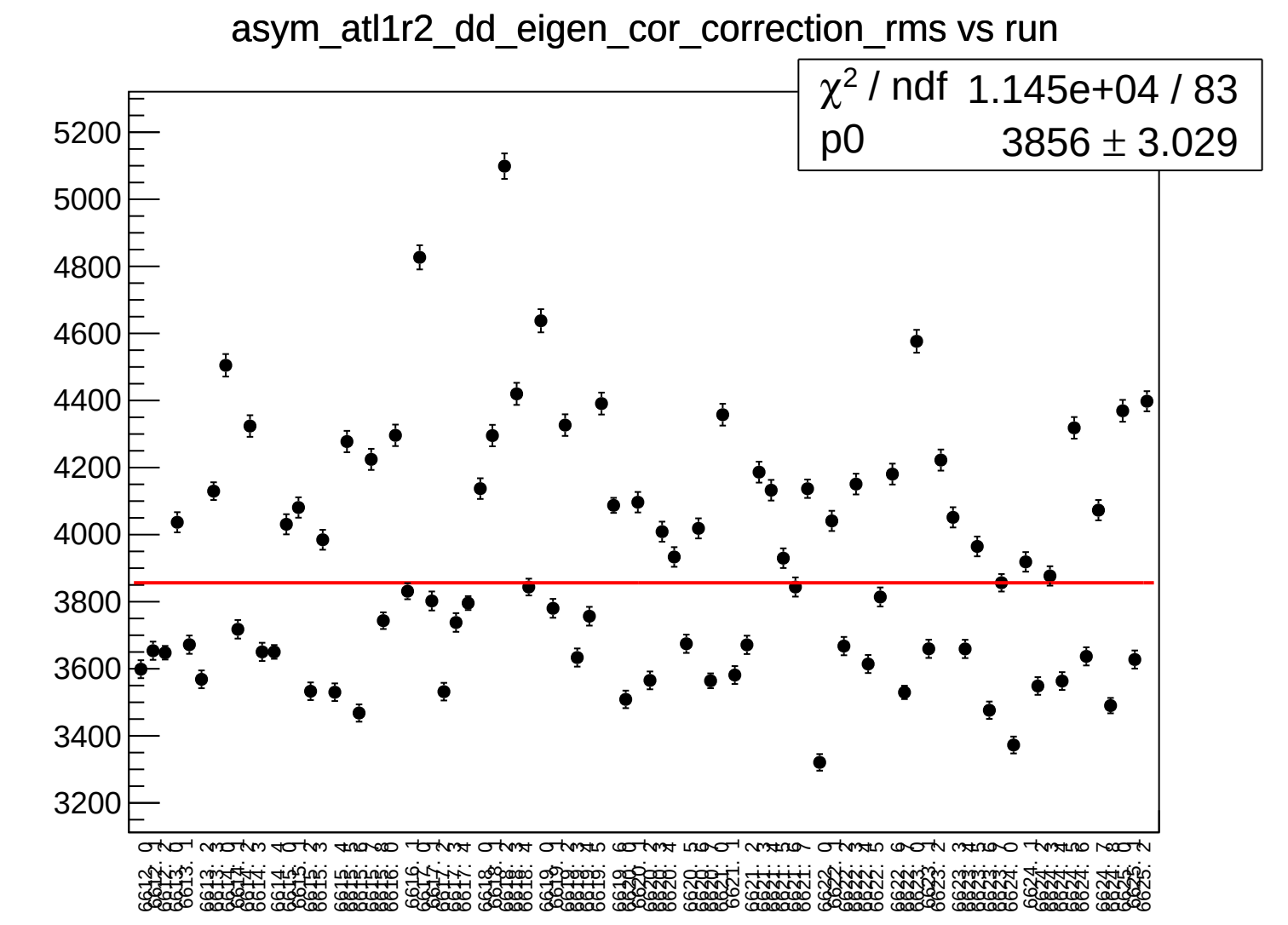

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 67.83 / 83
p0 979 ± 2215
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1.554e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

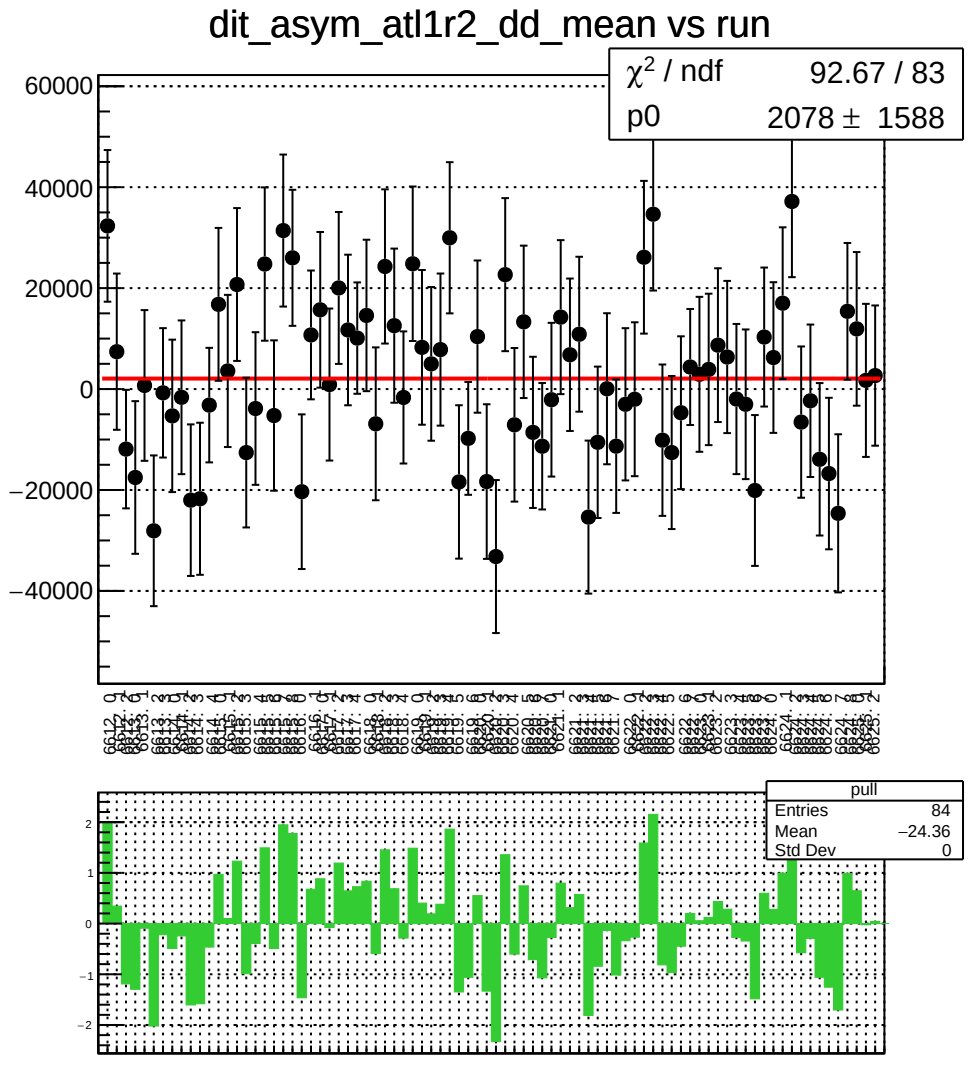

pull1D
Entries 84
Mean −0.0001769
Std Dev 0.8986
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

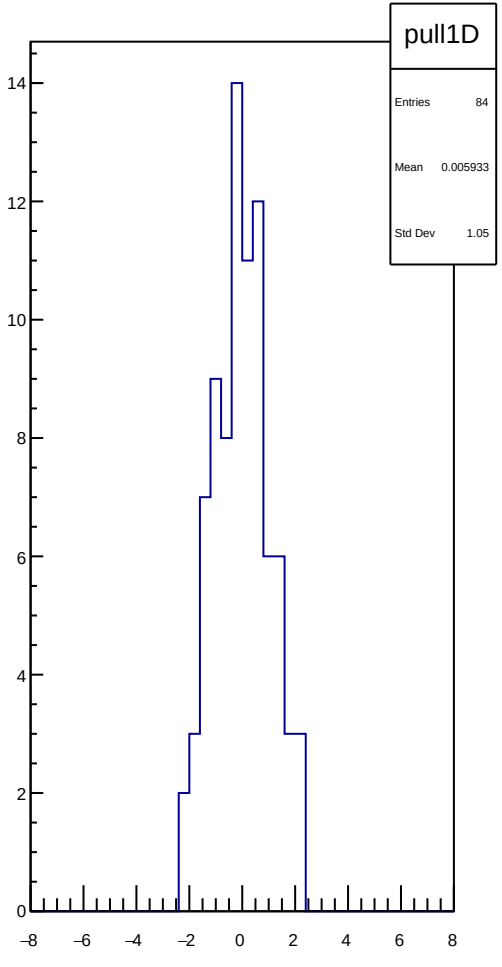

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 184.5 / 83
p0 2002 ± 1.567
2100
2080
2060
2040
2020
2000
1980
1960
1940

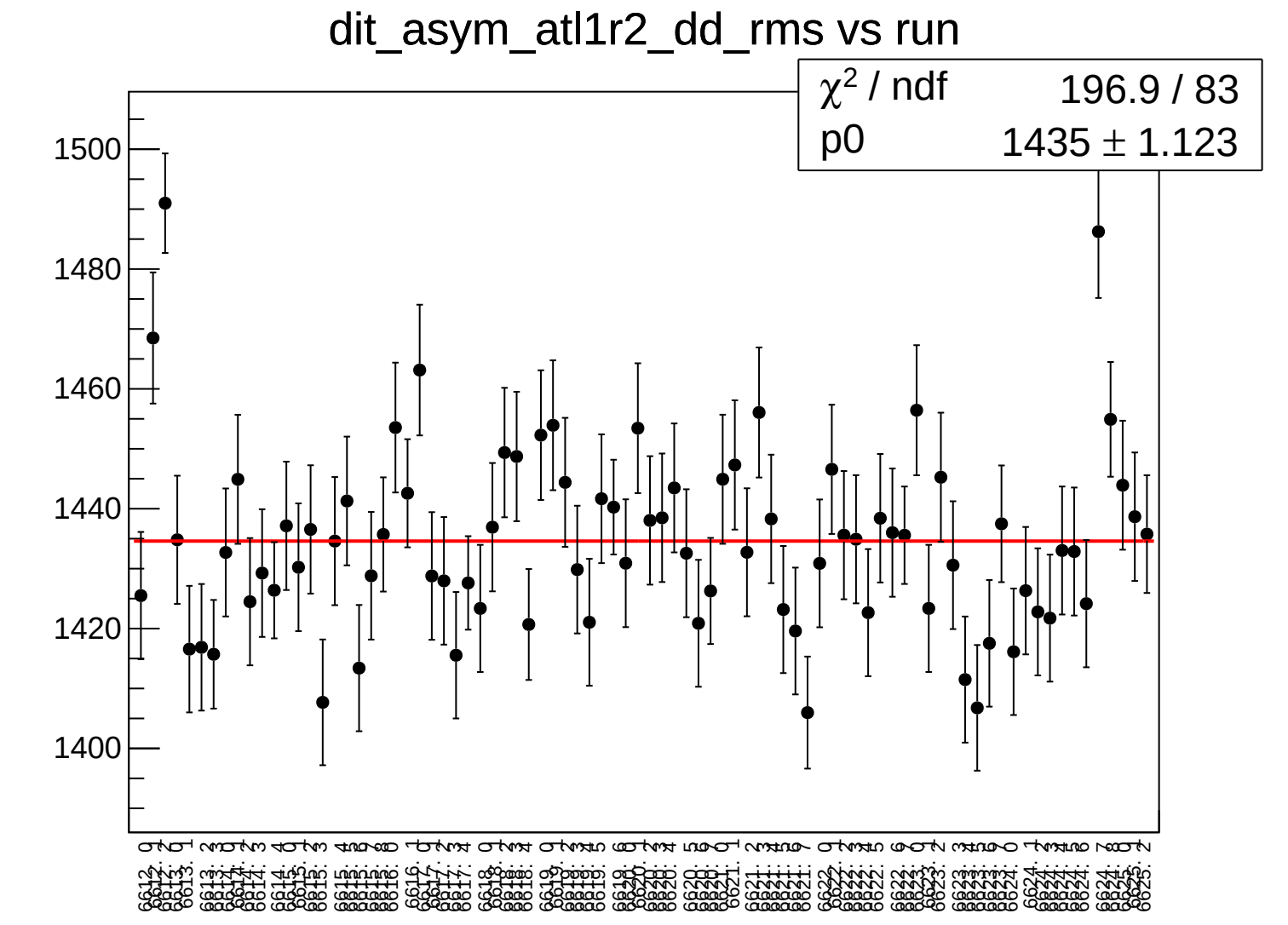

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.39 / 83
p0 −1351 ± 4283
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −58.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

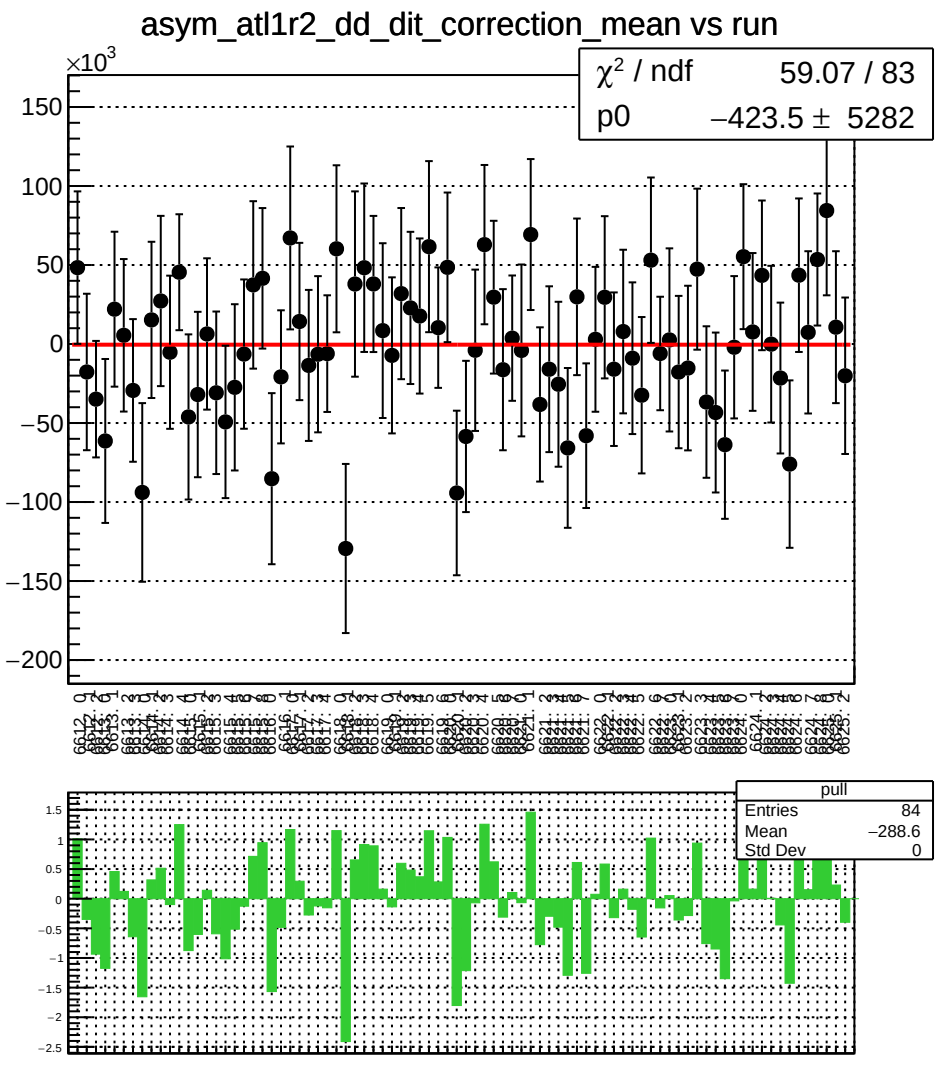

pull1D
Entries 84
Mean −0.01202
Std Dev 0.941
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

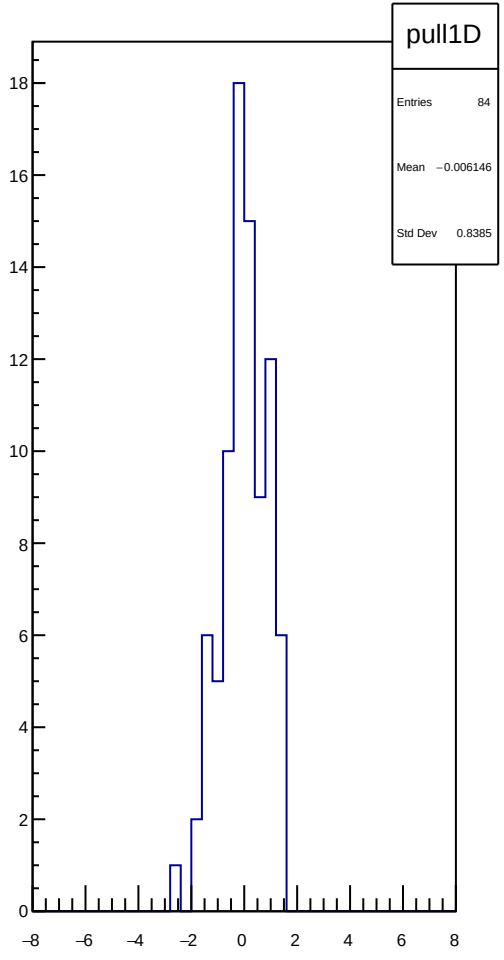

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 1.145e+04 / 83
p0 3856 ± 3.029
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

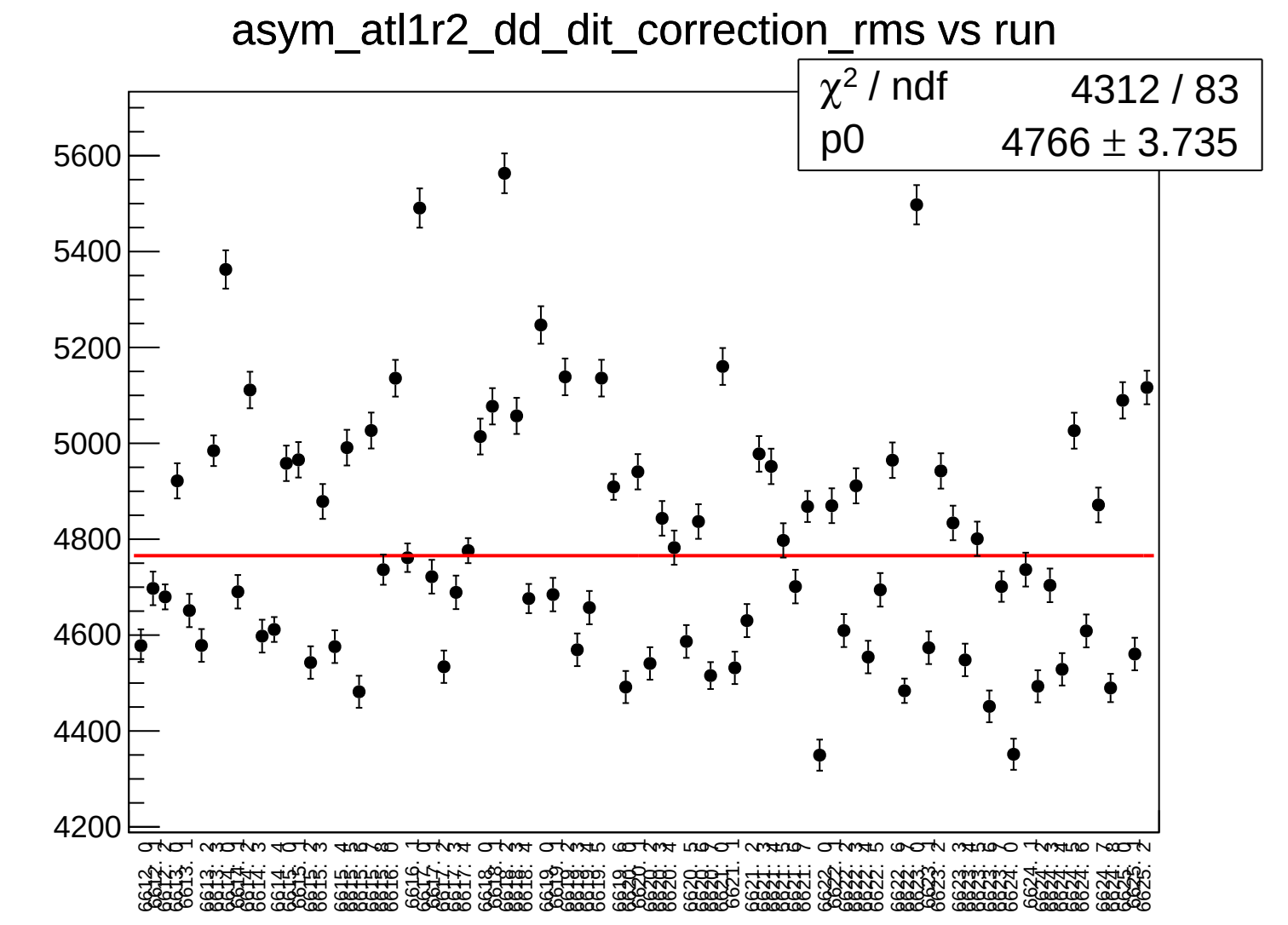

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 92.67 / 83
p0 2078 ± 1588
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −24.36
Std Dev 0
2
1
0
−1
−2

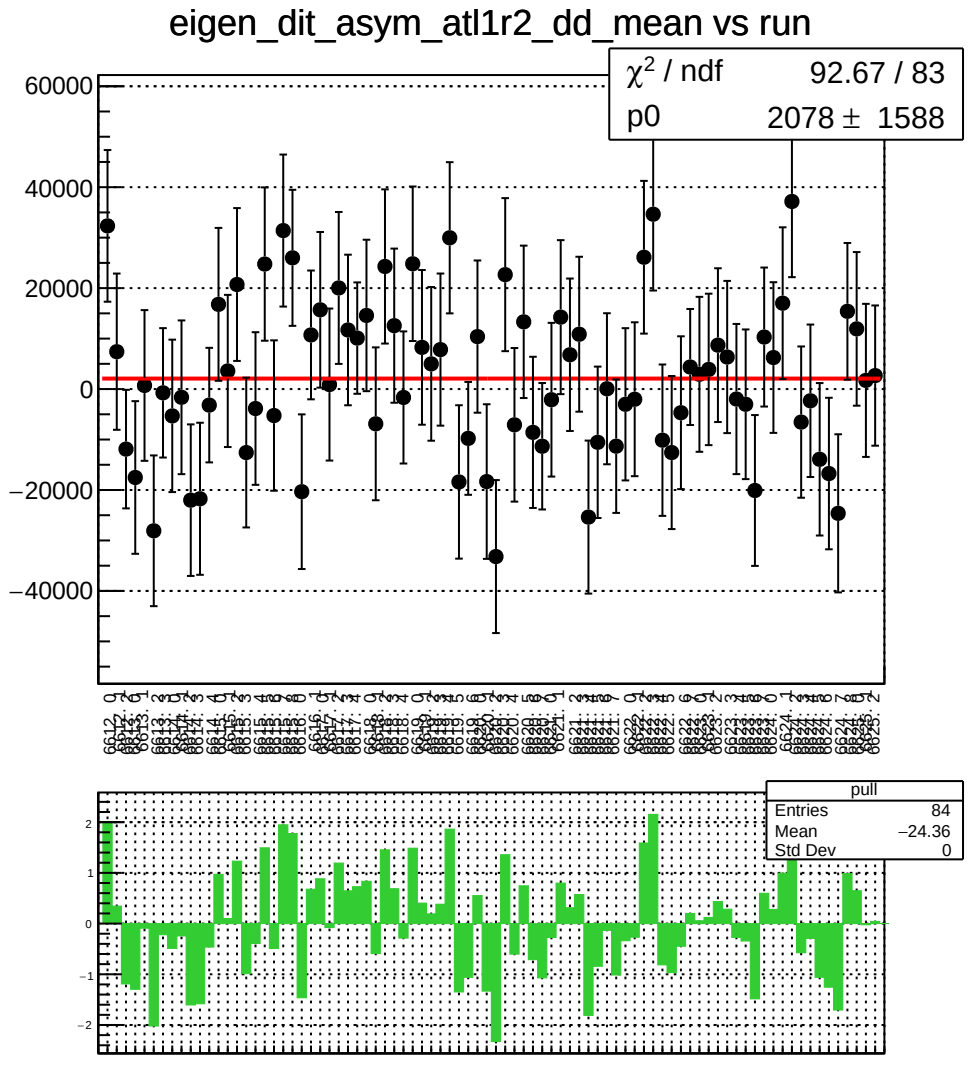

pull1D
Entries 84
Mean 0.005933
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

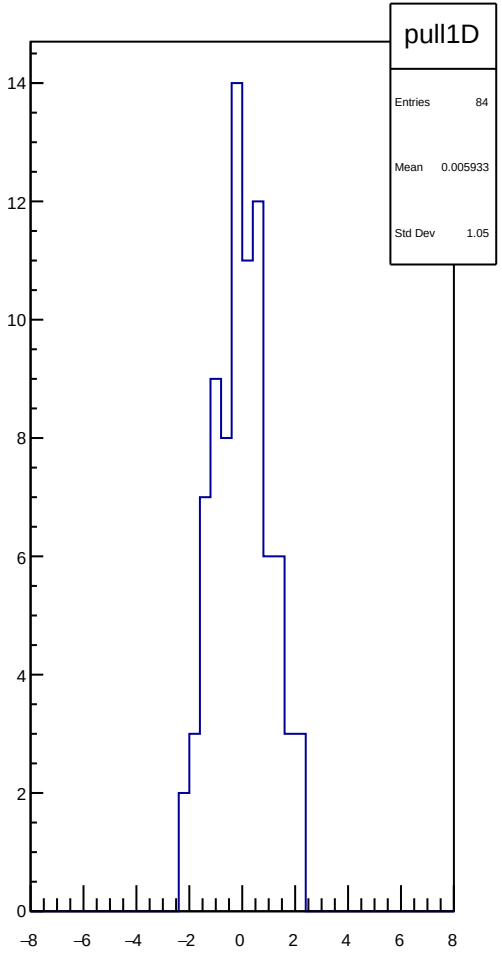

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 196.9 / 83
p0 1435 ± 1.123
1500
1480
1460
1440
1420
1400

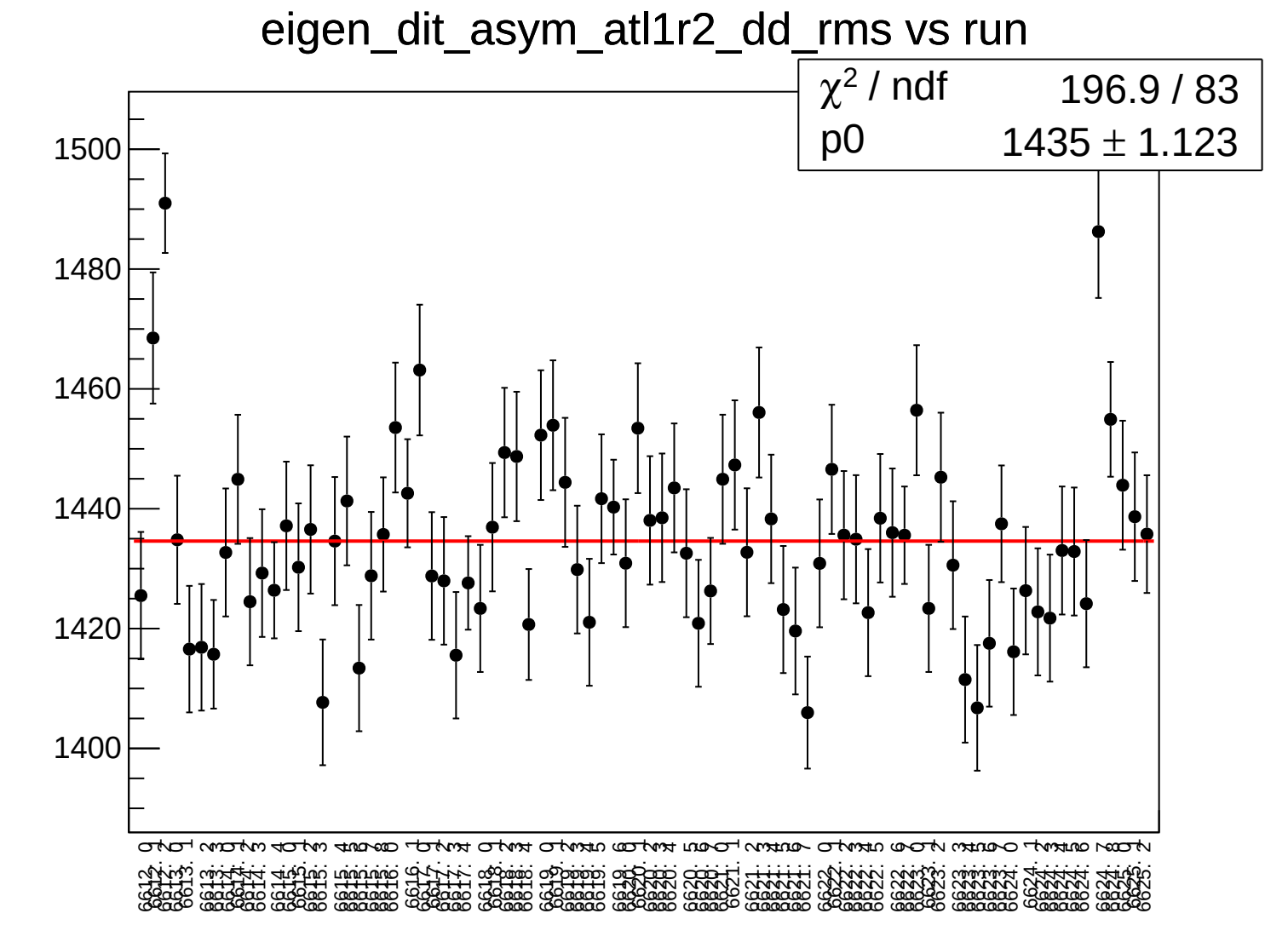

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 59.07 / 83
p0 −423.5 ± 5282
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −288.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

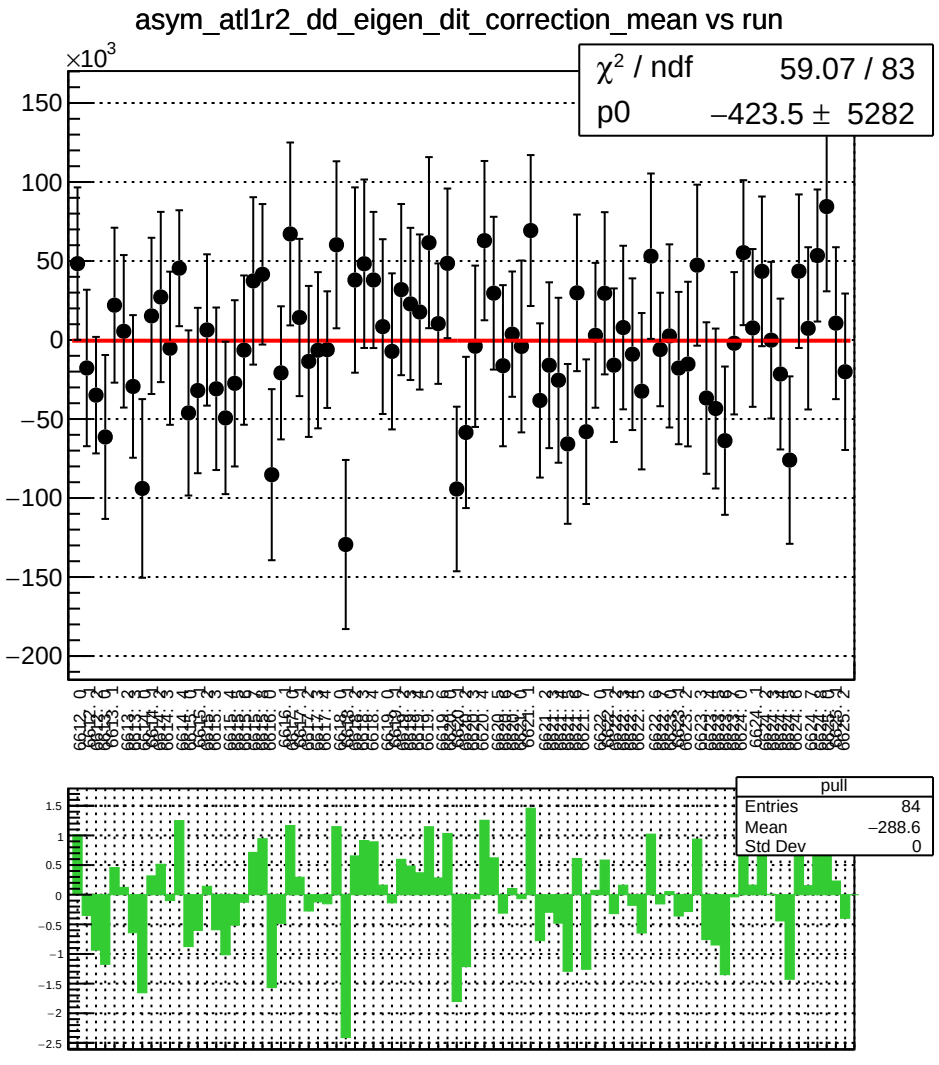

pull1D
Entries 84
Mean −0.006146
Std Dev 0.8385
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

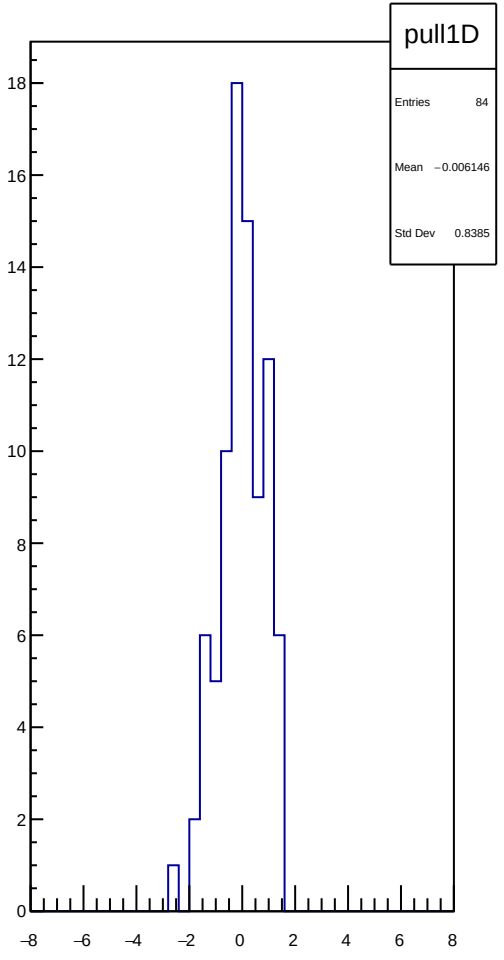

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 4312 / 83
p0 4766 ± 3.735
5600
5400
5200
5000
4800
4600
4400
4200

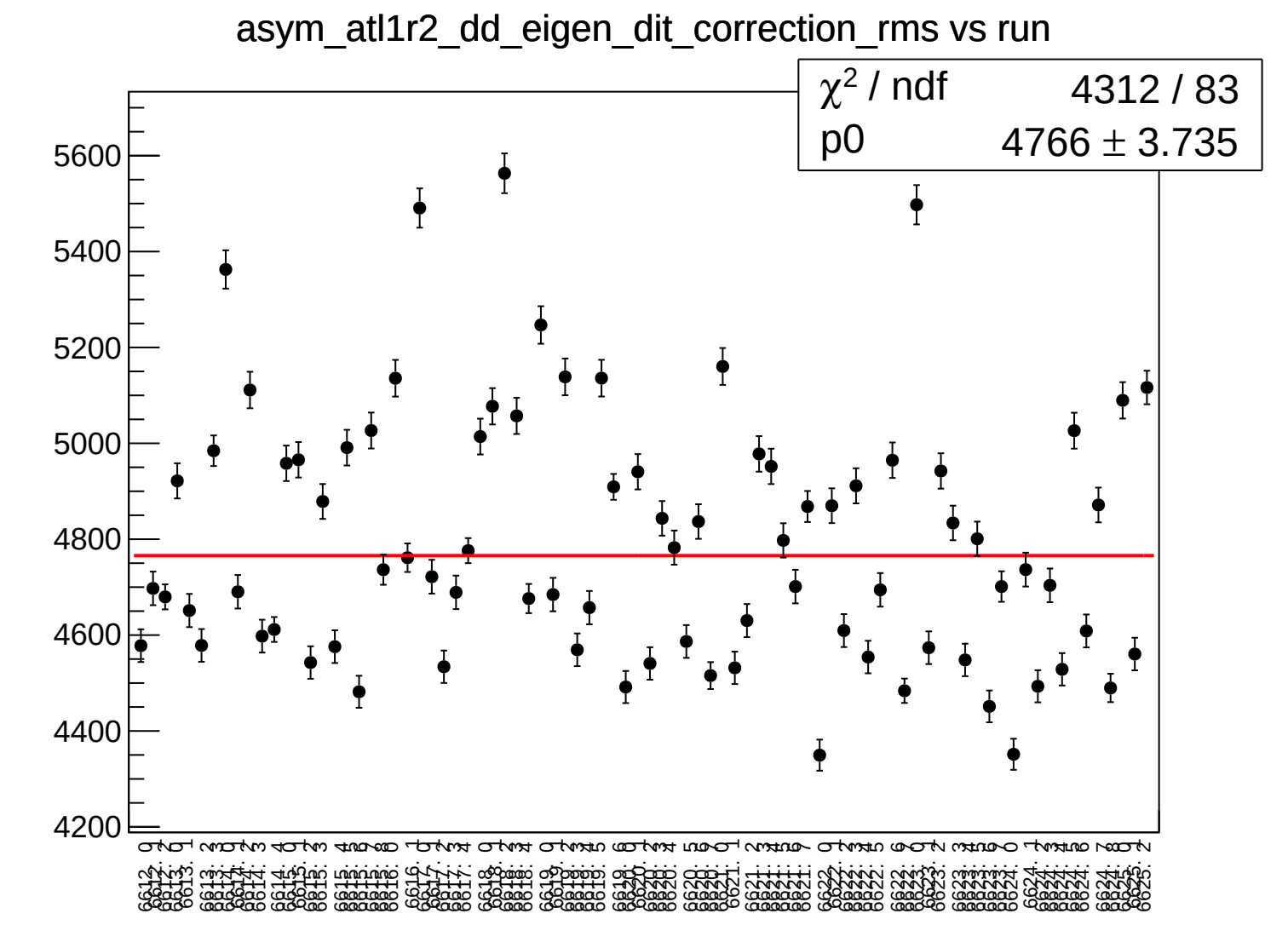

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 92.67 / 83
p0 2078 ± 1588
pull
Entries 84
Mean −24.36
Std Dev 0

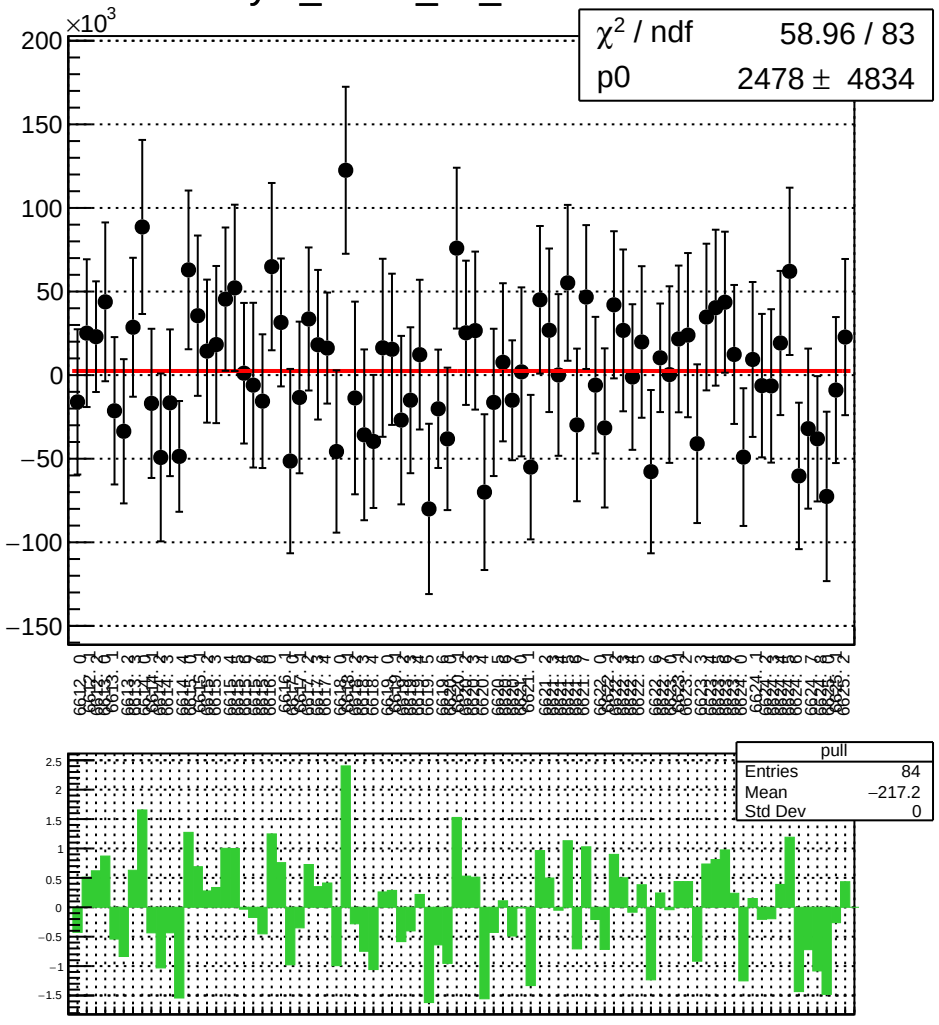

pull1D
Entries 84
Mean 0.005933
Std Dev 1.05

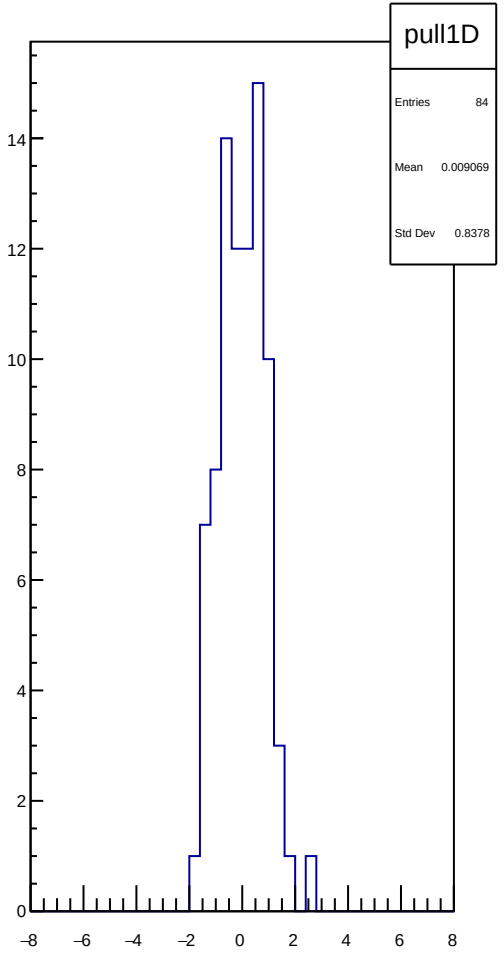

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 196.9 / 83
p0 1435 ± 1.123
1500
1480
1460
1440
1420
1400

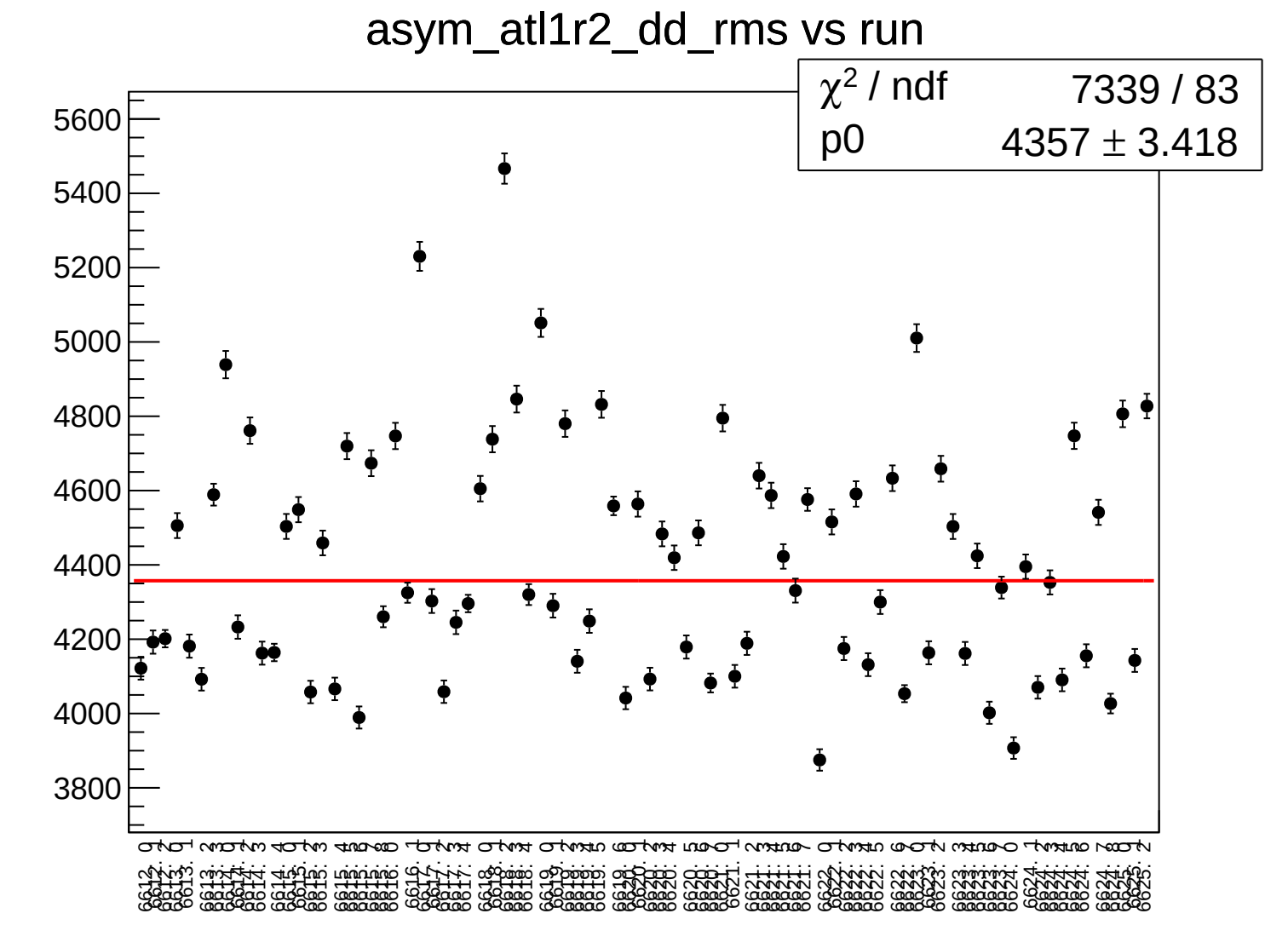

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 59.07 / 83
p0 −423.5 ± 5282
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −288.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

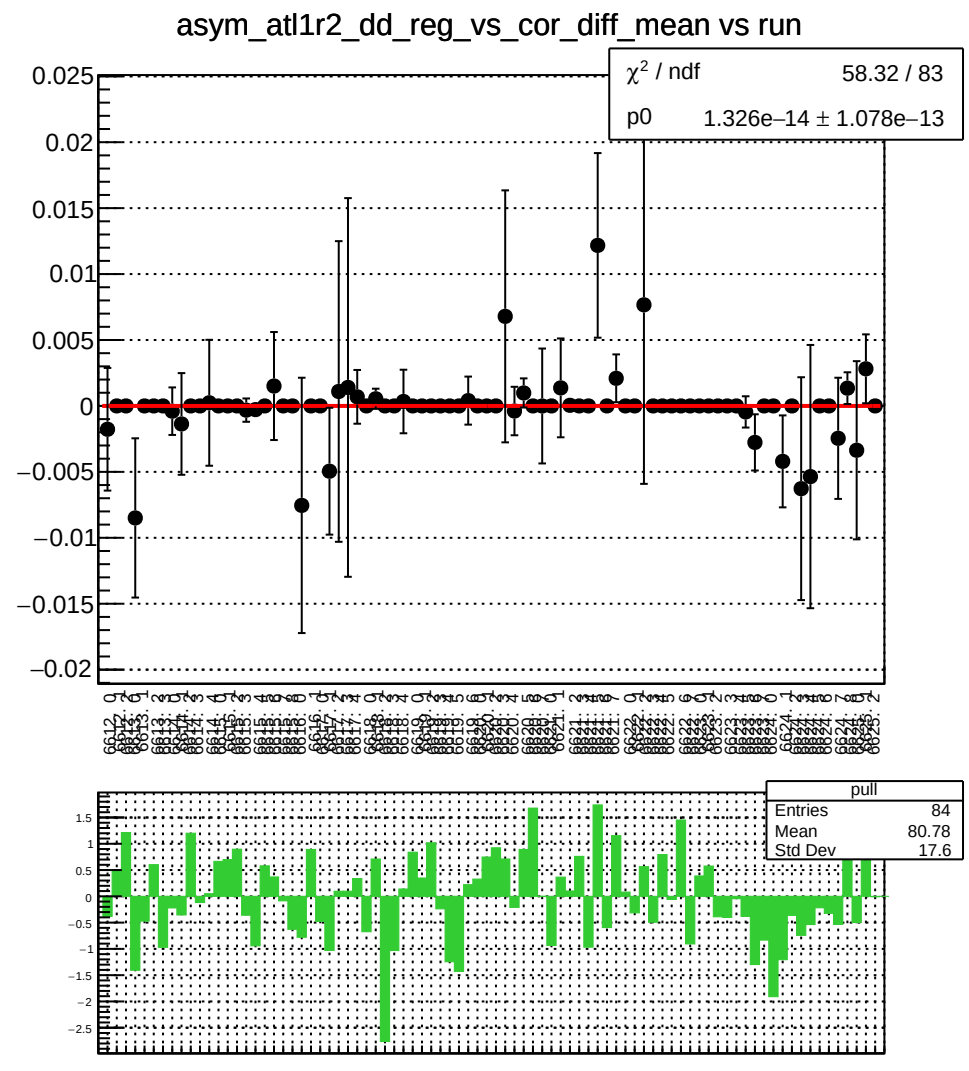

pull1D
Entries 84
Mean −0.006146
Std Dev 0.8385
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

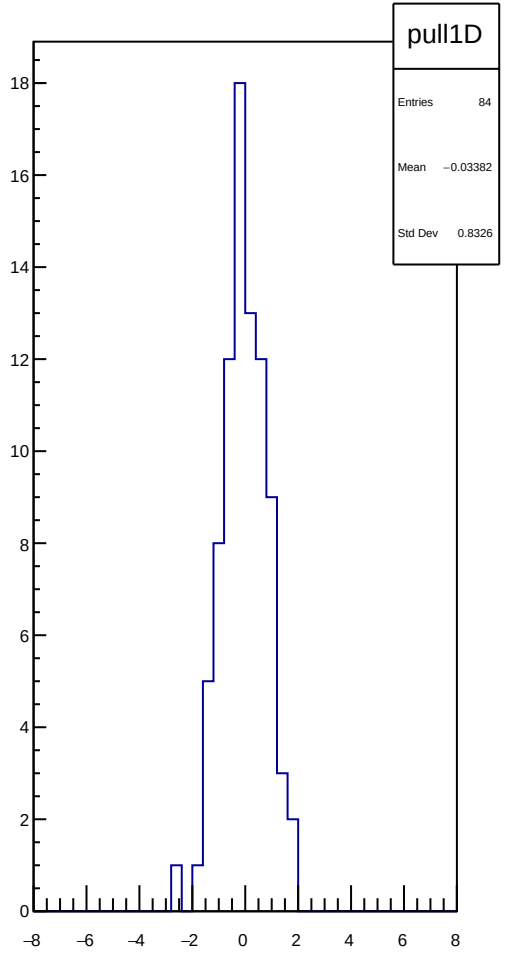

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4312 / 83
p0 4766 ± 3.735
5600
5400
5200
5000
4800
4600
4400
4200

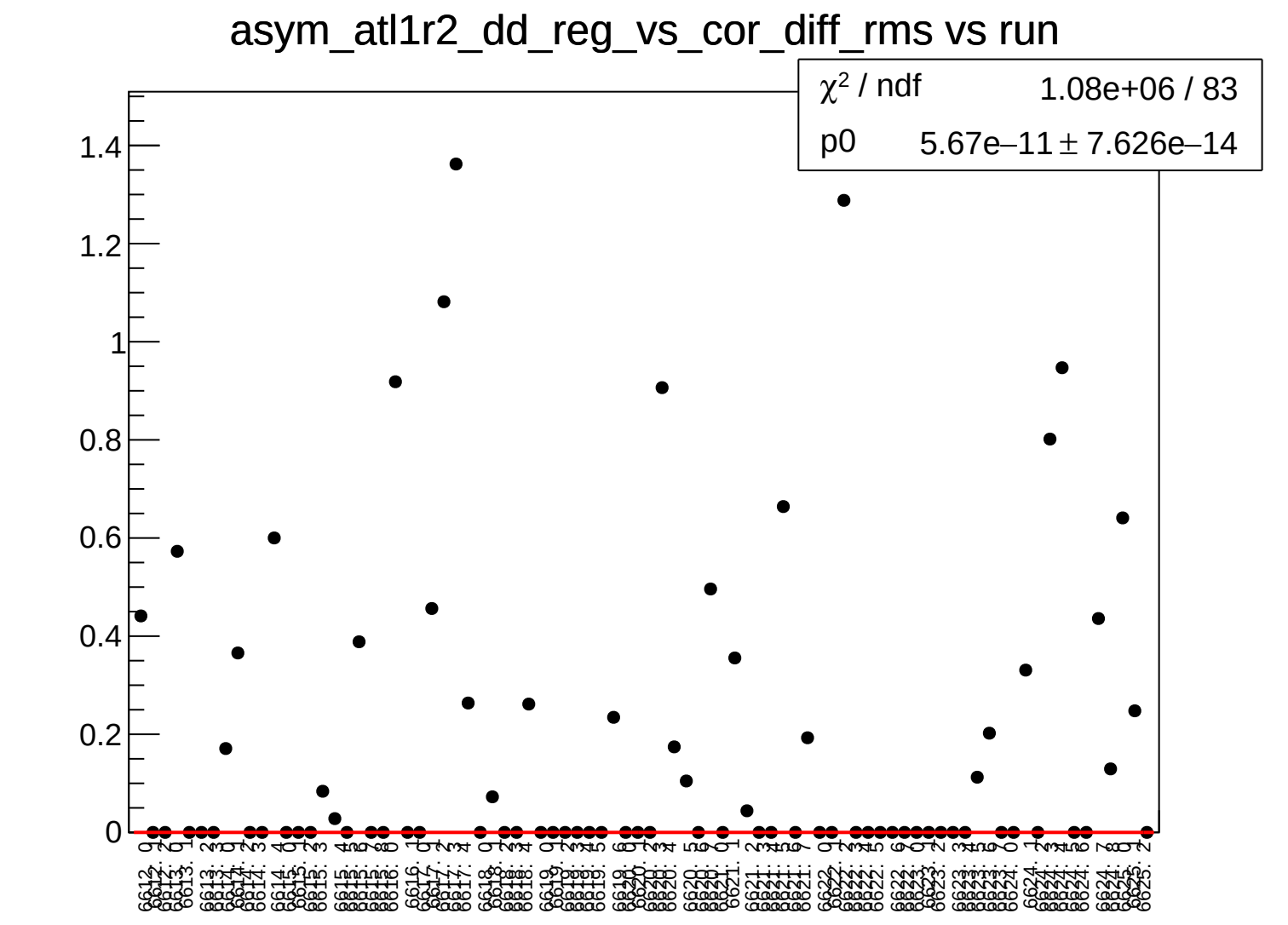

asym_atl1r2_dd_mean vs run
χ² / ndf 58.96 / 83
p0 2478 ± 4834
×10³
pull
Entries 84
Mean −217.2
Std Dev 0

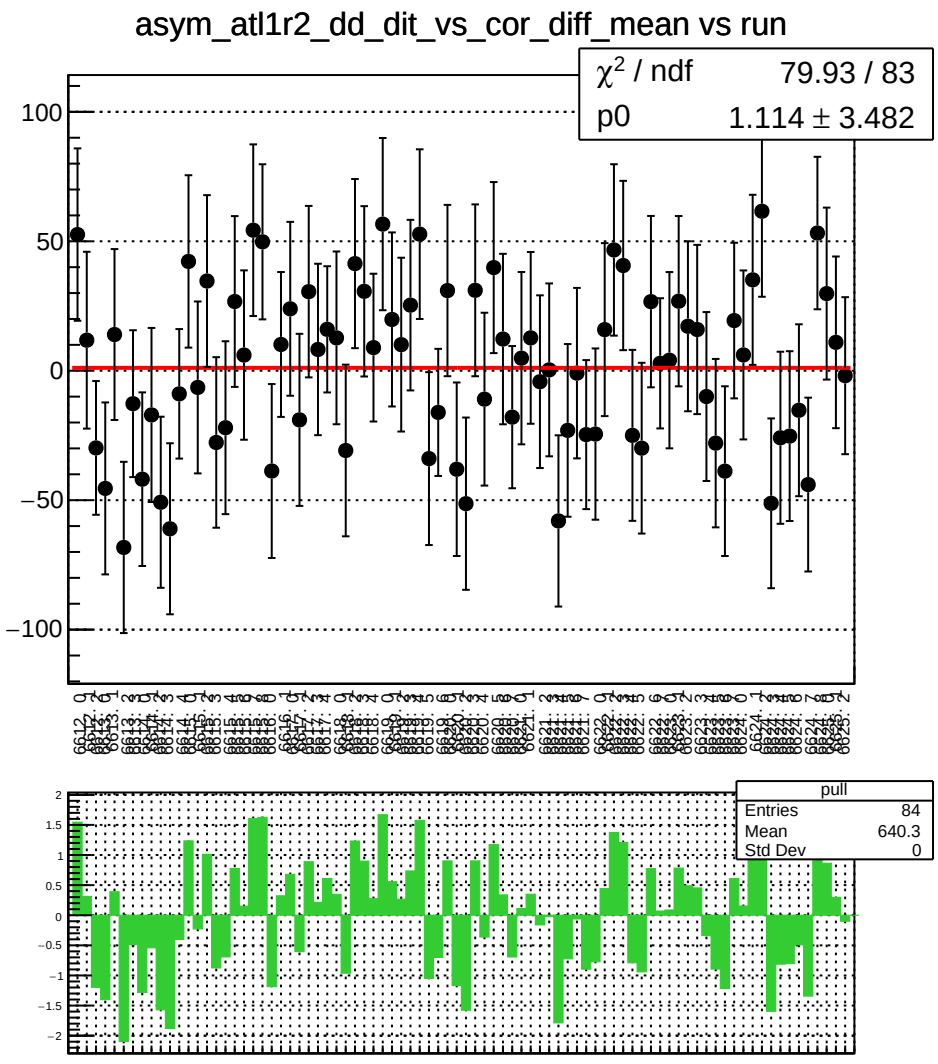

pull1D
Entries 84
Mean 0.009069
Std Dev 0.8378

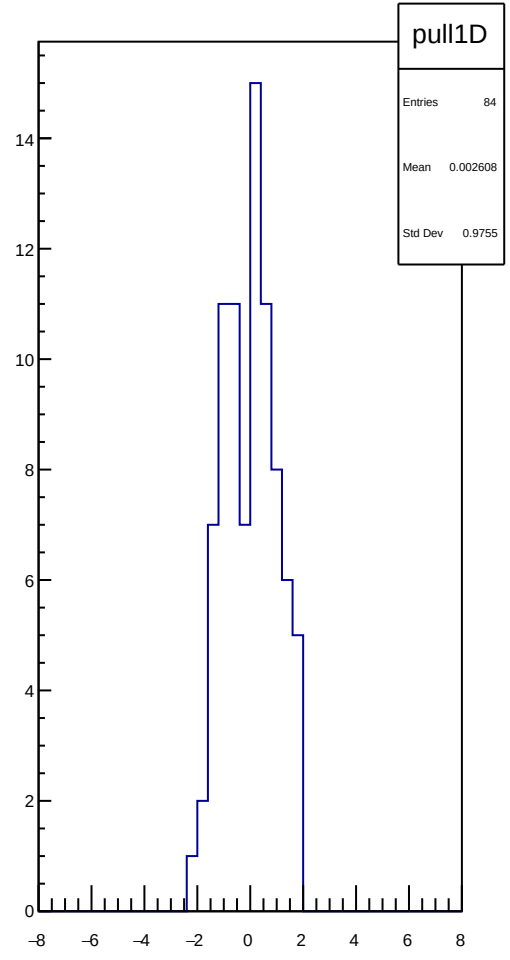

asym_atl1r2_dd_rms vs run
χ^2 / ndf 7339 / 83
p0 4357 ± 3.418
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

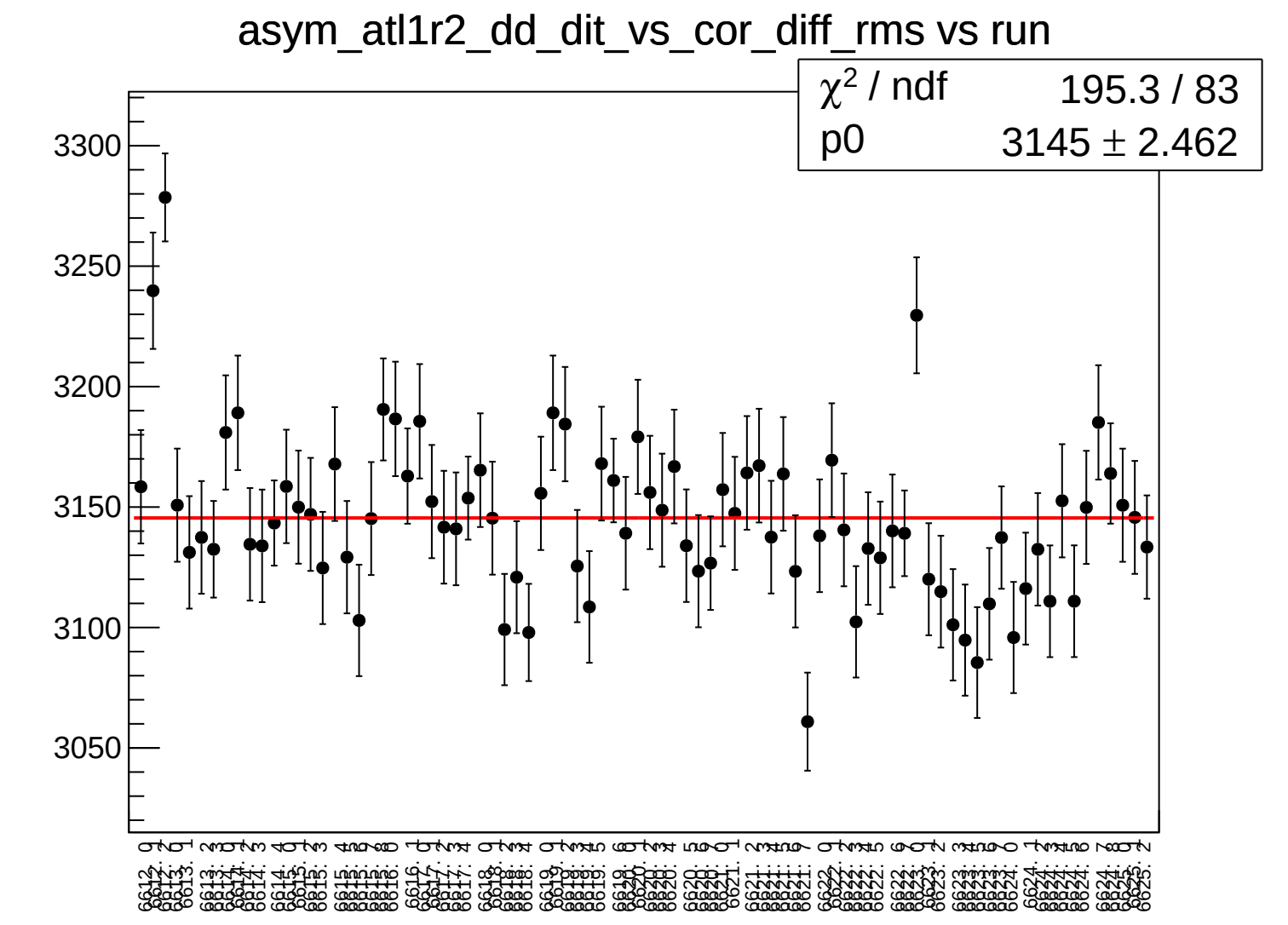

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 58.32 / 83
p0 1.326e−14 ± 1.078e−13
pull
Entries 84
Mean 80.78
Std Dev 17.6

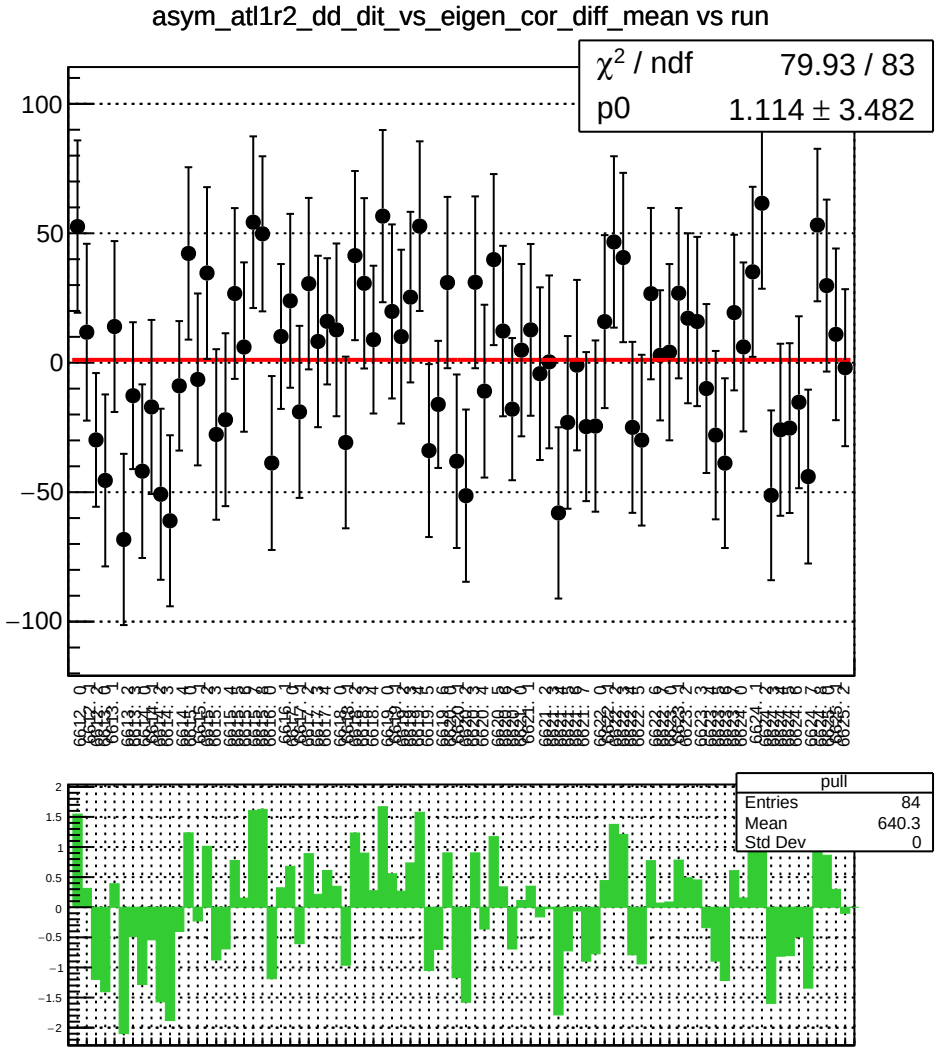

pull1D
Entries 84
Mean −0.03382
Std Dev 0.8326

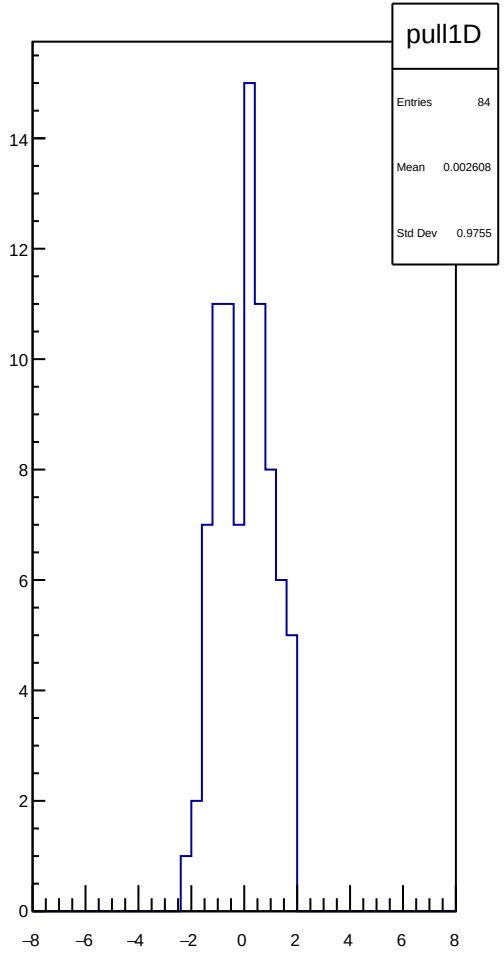

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.08e+06 / 83
p0 5.67e−11 ± 7.626e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

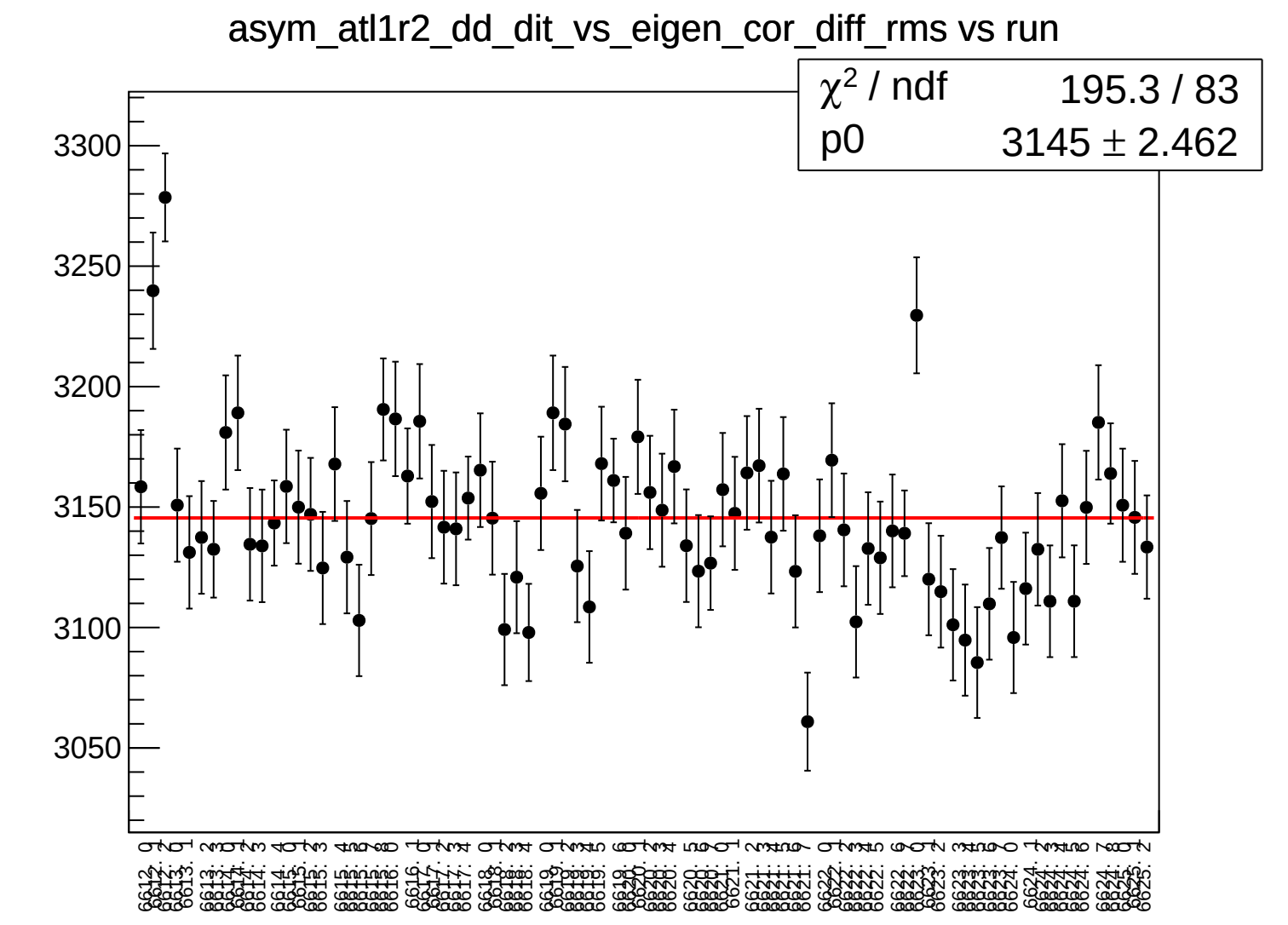

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.93 / 83
p0 1.114 ± 3.482
100
50
0
−50
−100
pull
Entries 84
Mean 640.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

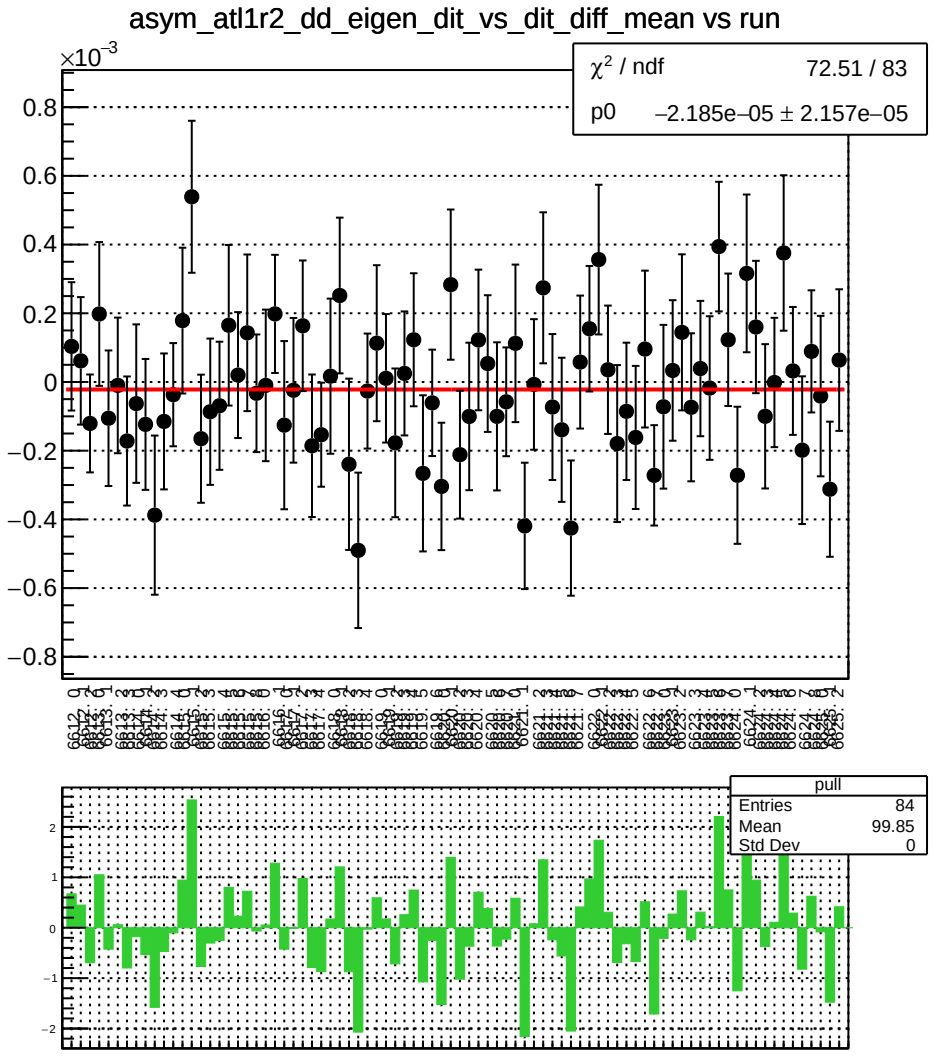

pull1D
Entries 84
Mean 0.002608
Std Dev 0.9755
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

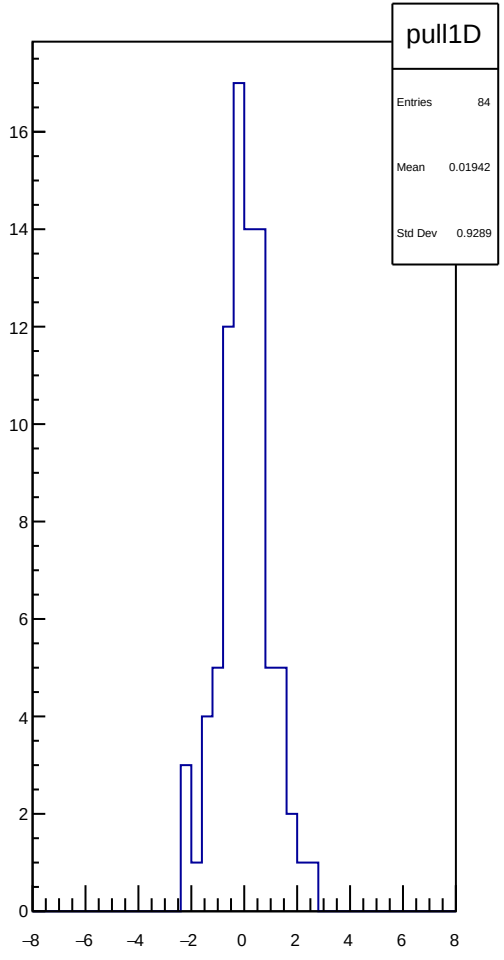

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 195.3 / 83
p0 3145 ± 2.462
3300
3250
3200
3150
3100
3050

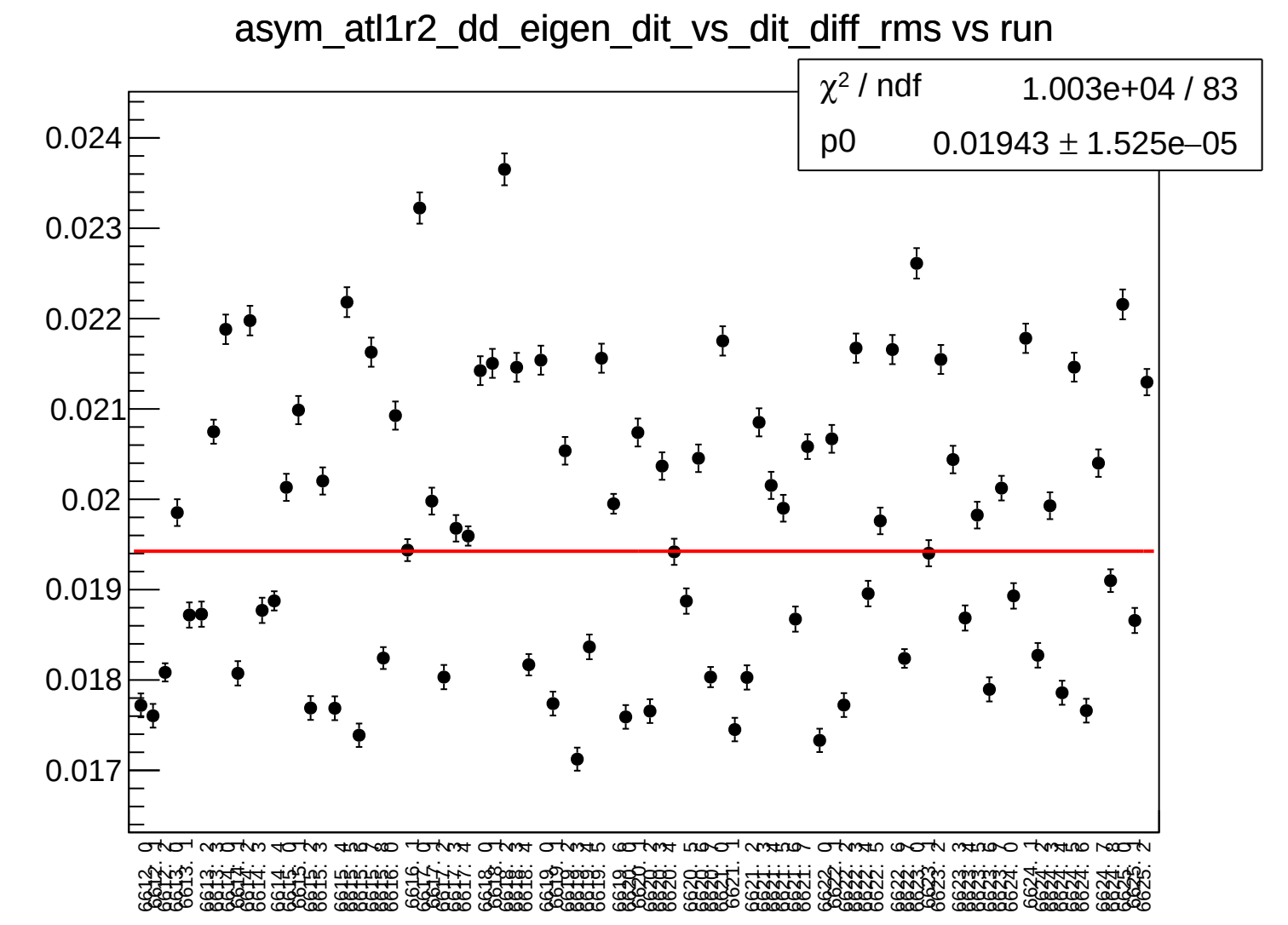

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.93 / 83
p0 1.114 ± 3.482
100
50
0
−50
−100
pull
Entries 84
Mean 640.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

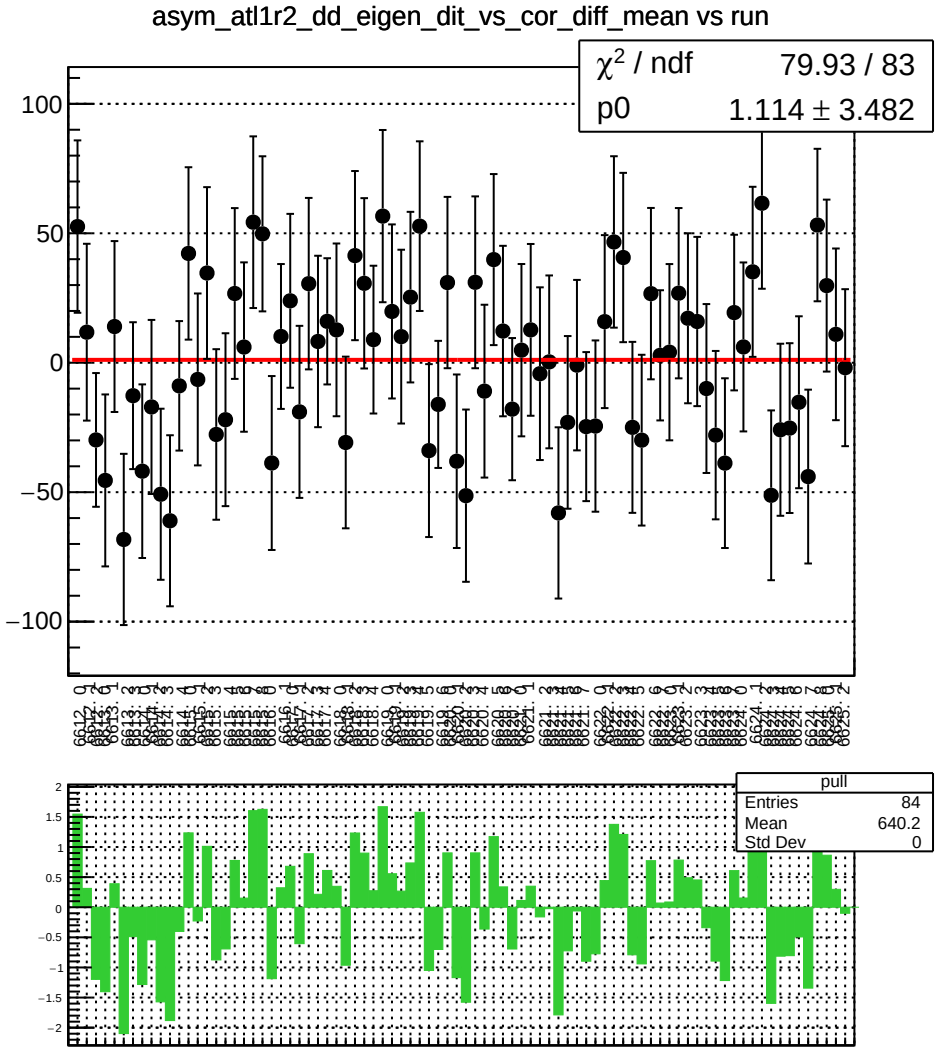

pull1D
Entries 84
Mean 0.002608
Std Dev 0.9755
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

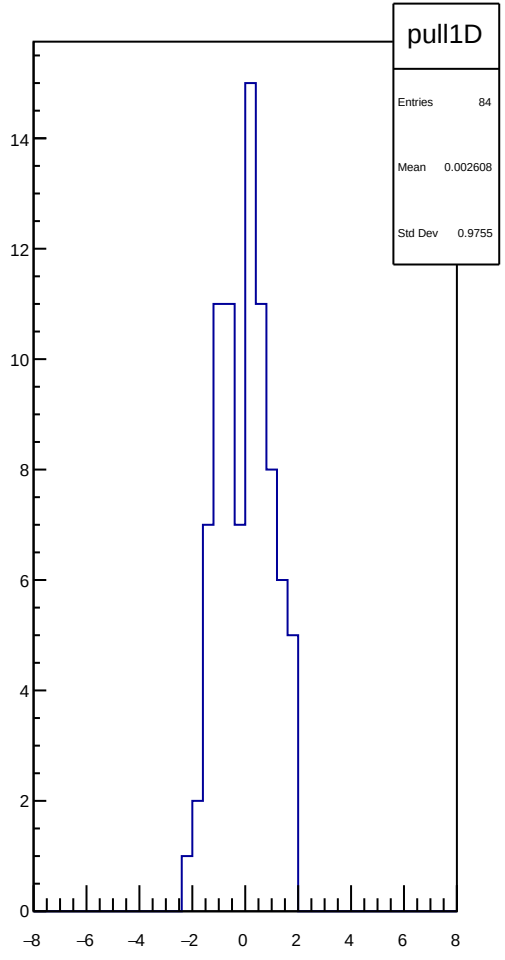

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 195.3 / 83
p0 3145 ± 2.462
3300
3250
3200
3150
3100
3050

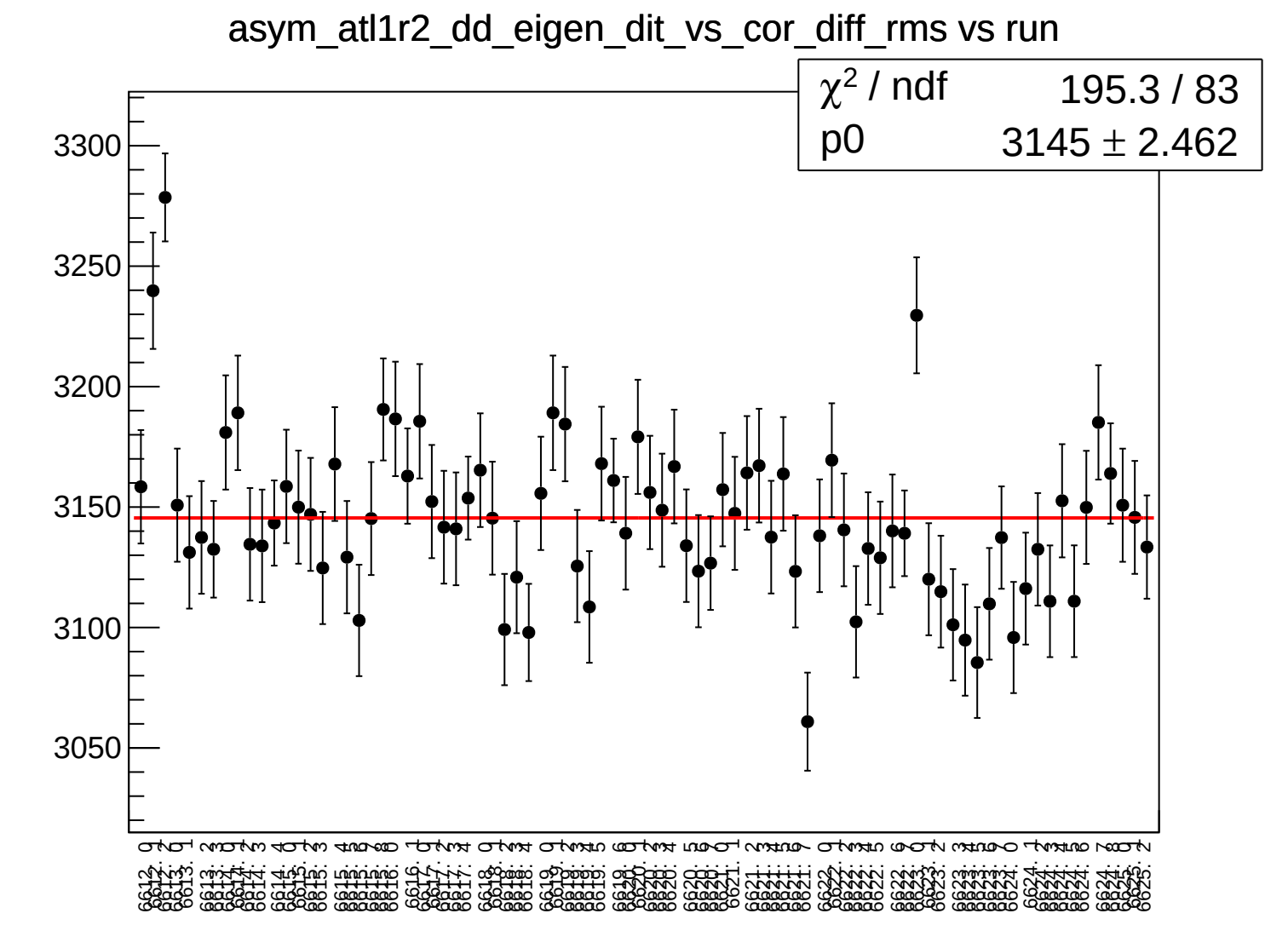

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.51 / 83
p0 −2.185e−05 ± 2.157e−05
pull
Entries 84
Mean 99.85
Std Dev 0

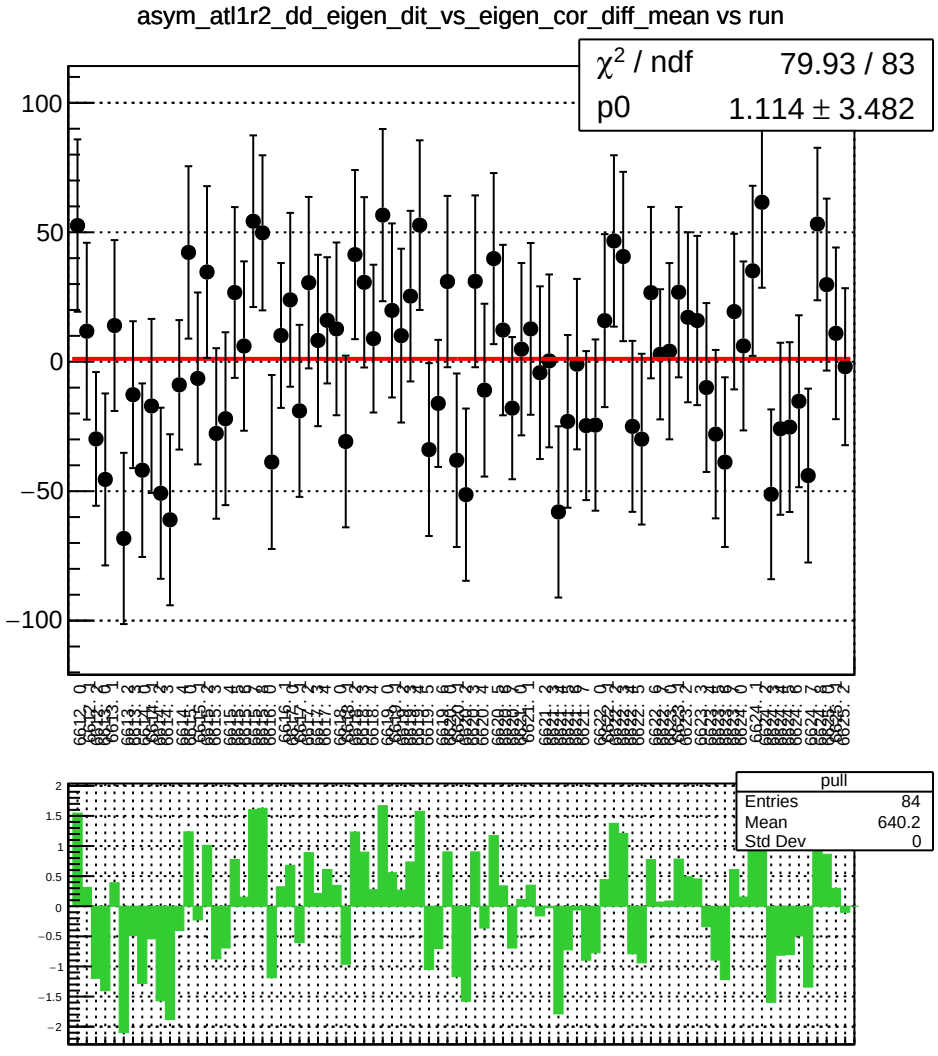

pull1D
Entries 84
Mean 0.01942
Std Dev 0.9289

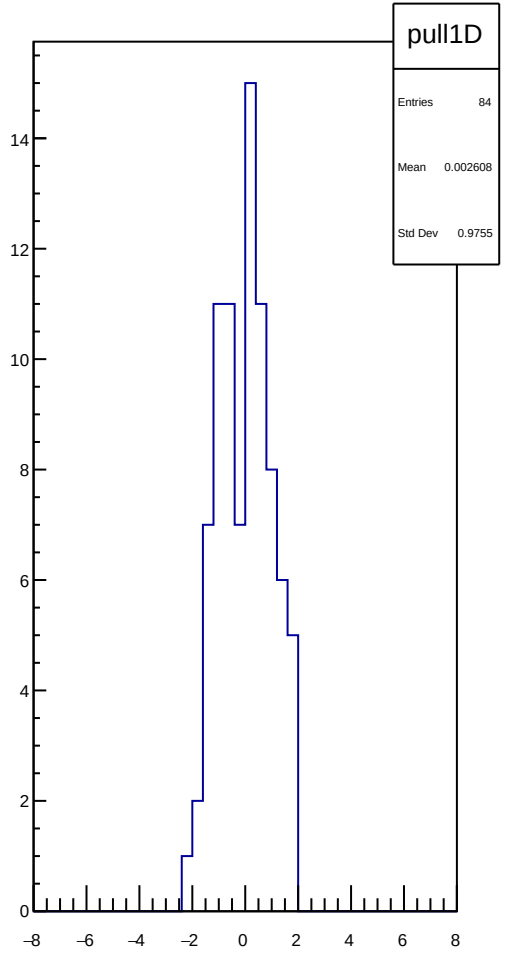

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.003e+04 / 83
p0 0.01943 ± 1.525e−05
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017

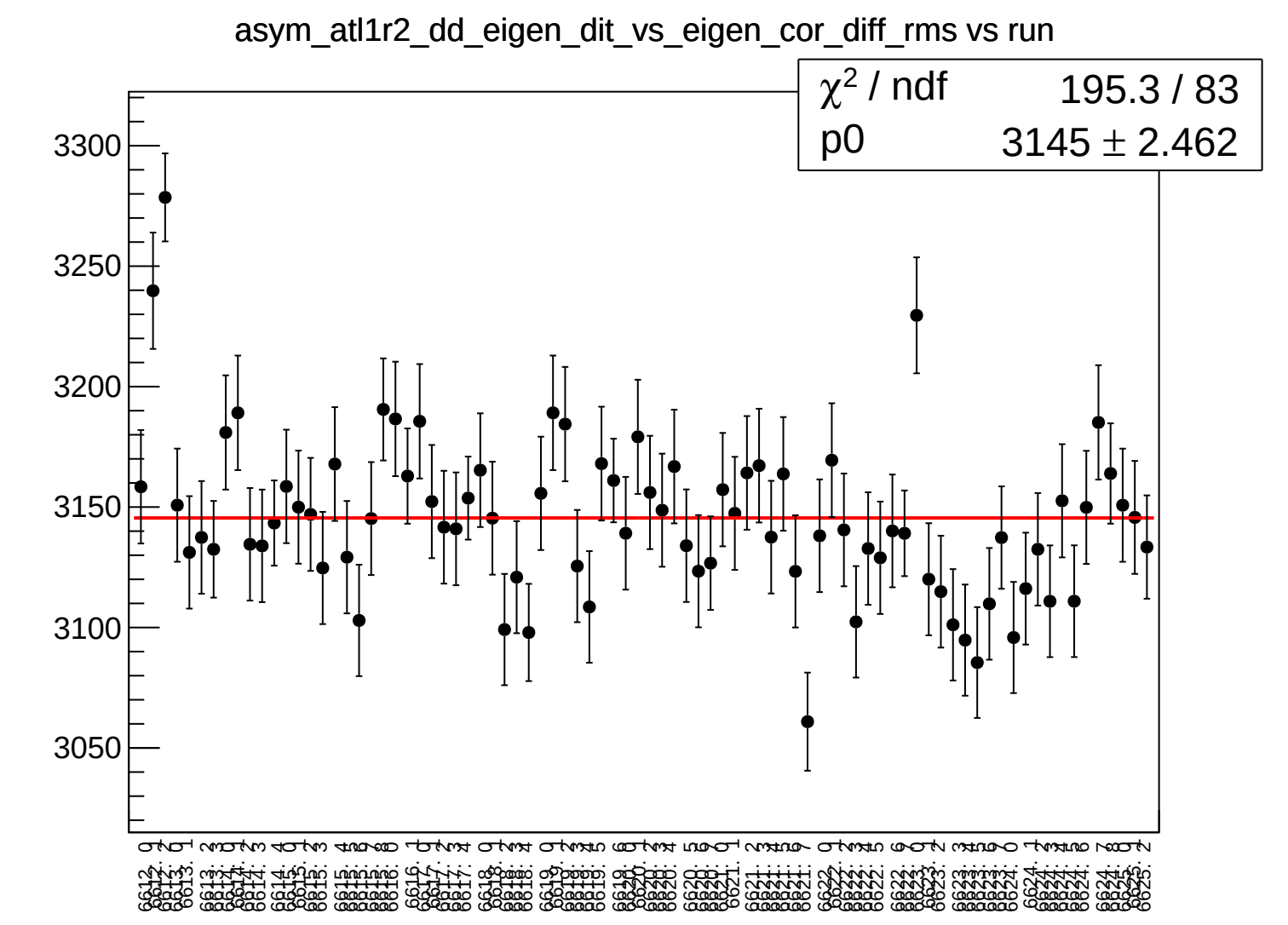

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.93 / 83
p0 1.114 ± 3.482
100
50
0
−50
−100
pull
Entries 84
Mean 640.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

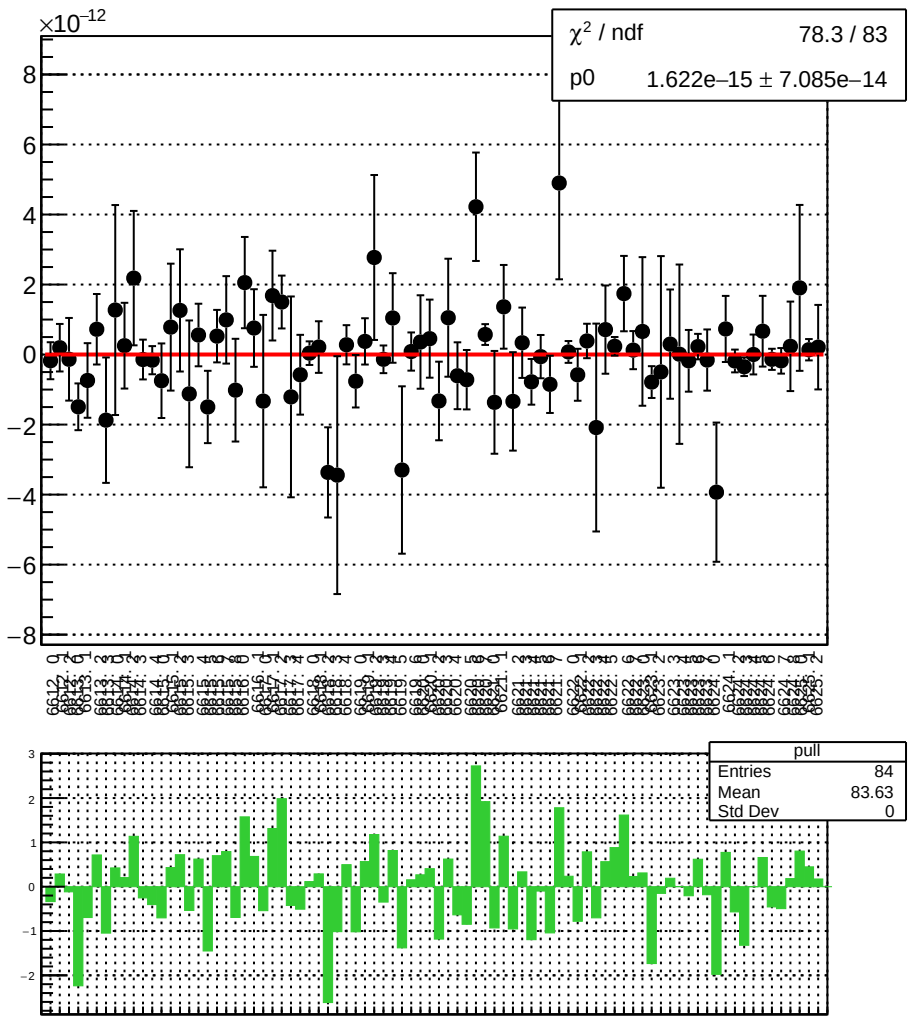

pull1D
Entries 84
Mean 0.002608
Std Dev 0.9755
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

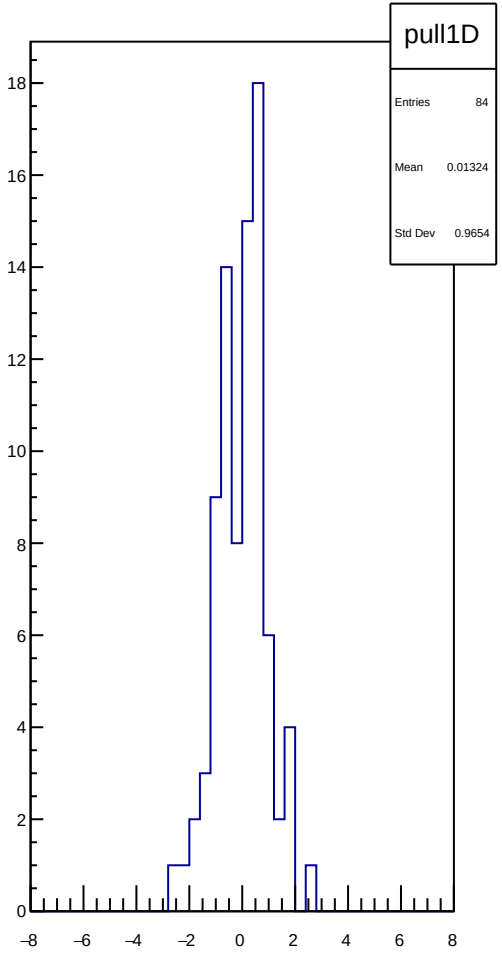

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 195.3 / 83
p0 3145 ± 2.462
3300
3250
3200
3150
3100
3050

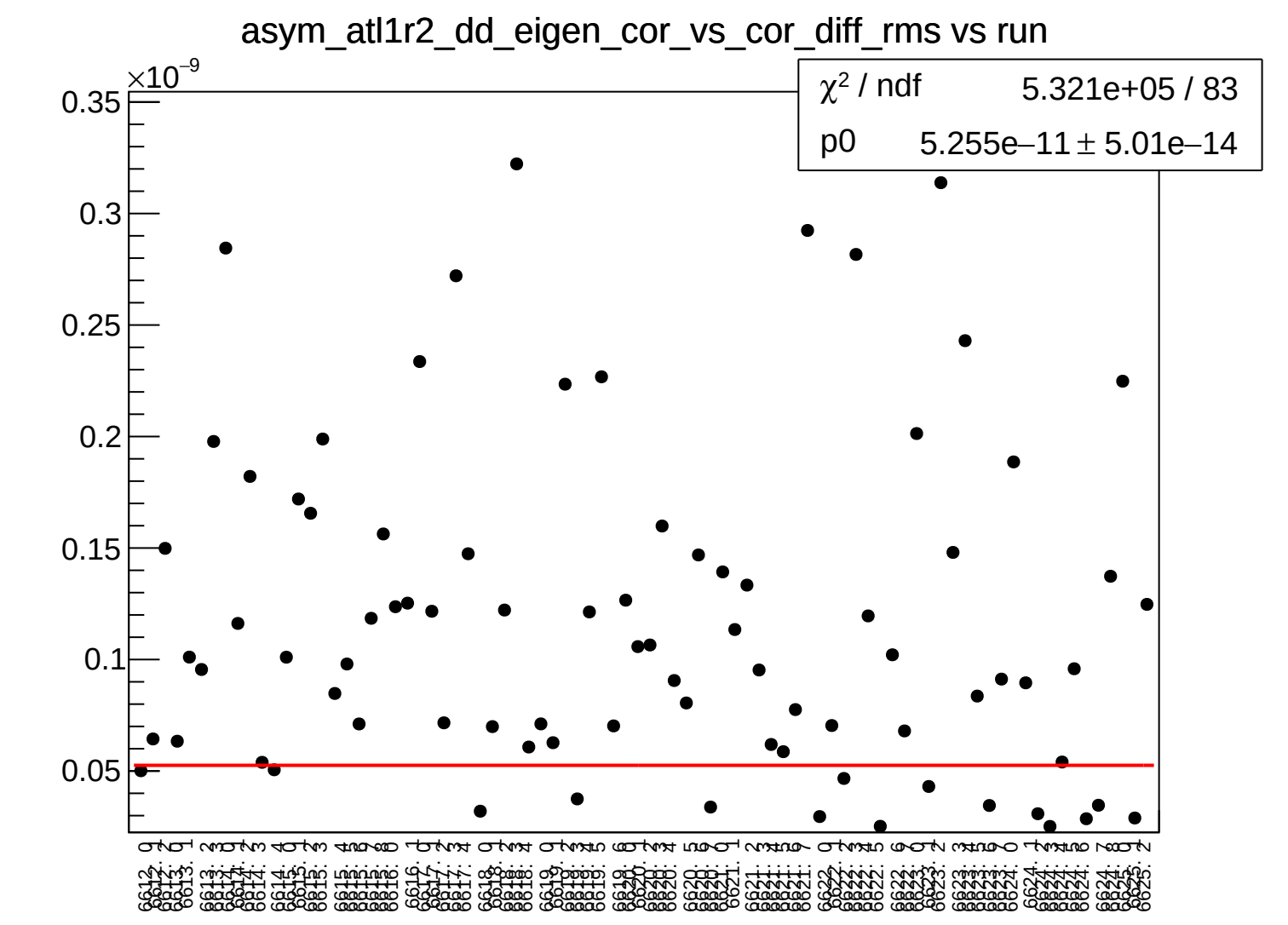

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.93 / 83
p0 1.114 ± 3.482
100
50
0
−50
−100
pull
Entries 84
Mean 640.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

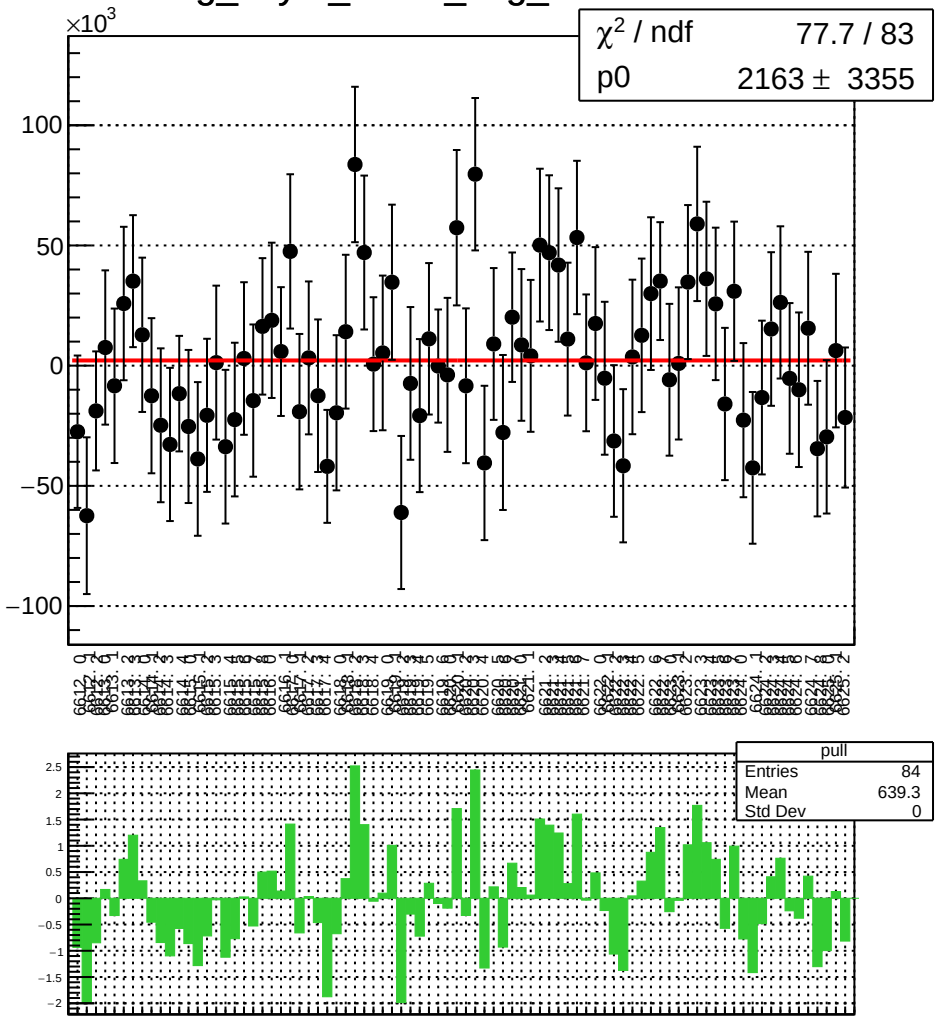

pull1D
Entries 84
Mean 0.002608
Std Dev 0.9755
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

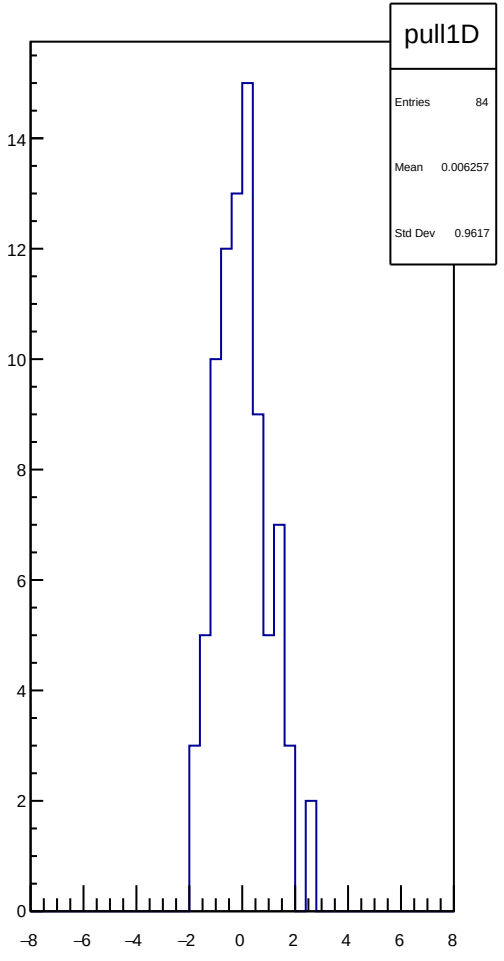

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 195.3 / 83
p0 3145 ± 2.462
3300
3250
3200
3150
3100
3050

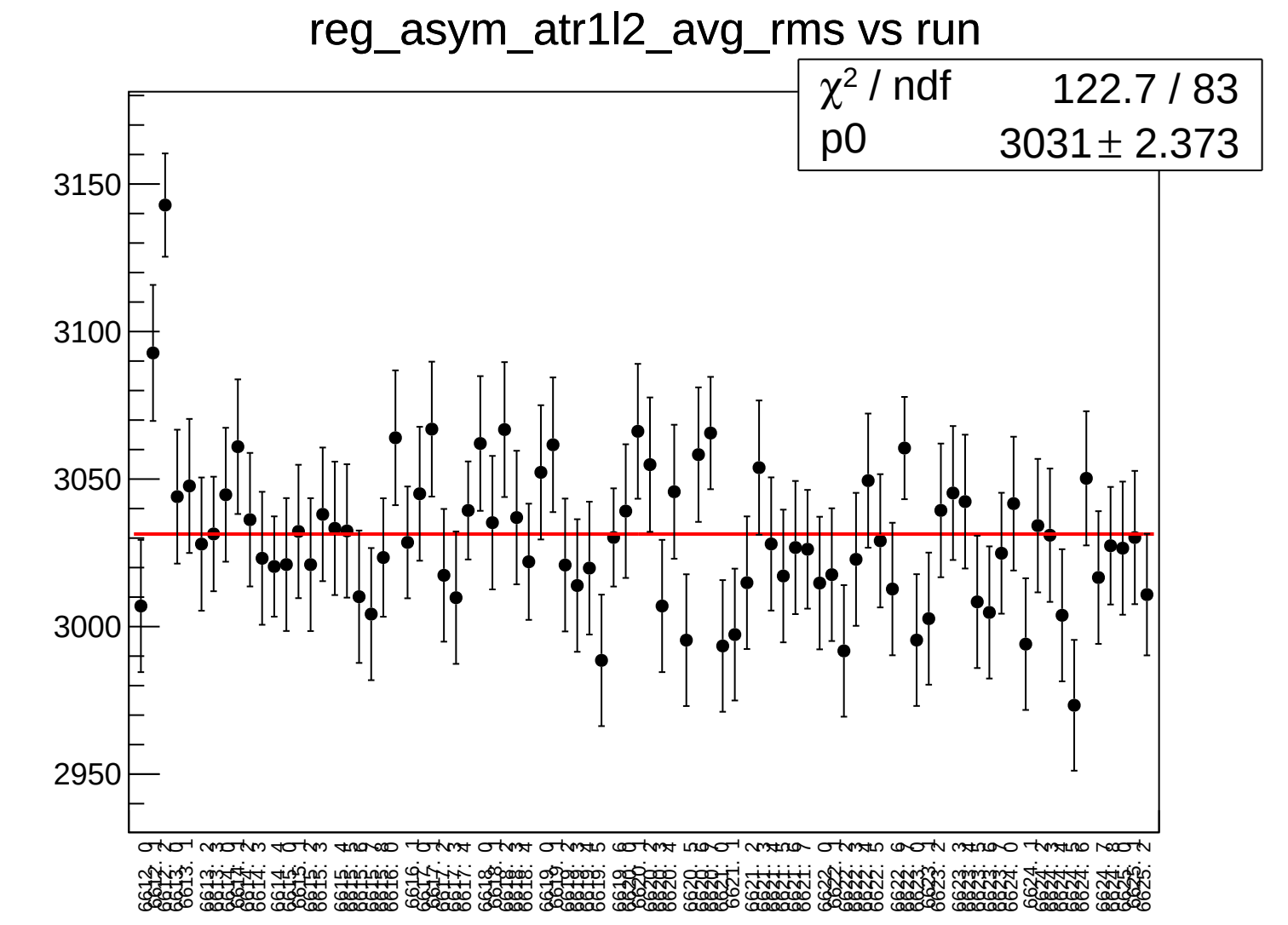

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.3 / 83
p0 1.622e−15 ± 7.085e−14
pull
Entries 84
Mean 83.63
Std Dev 0

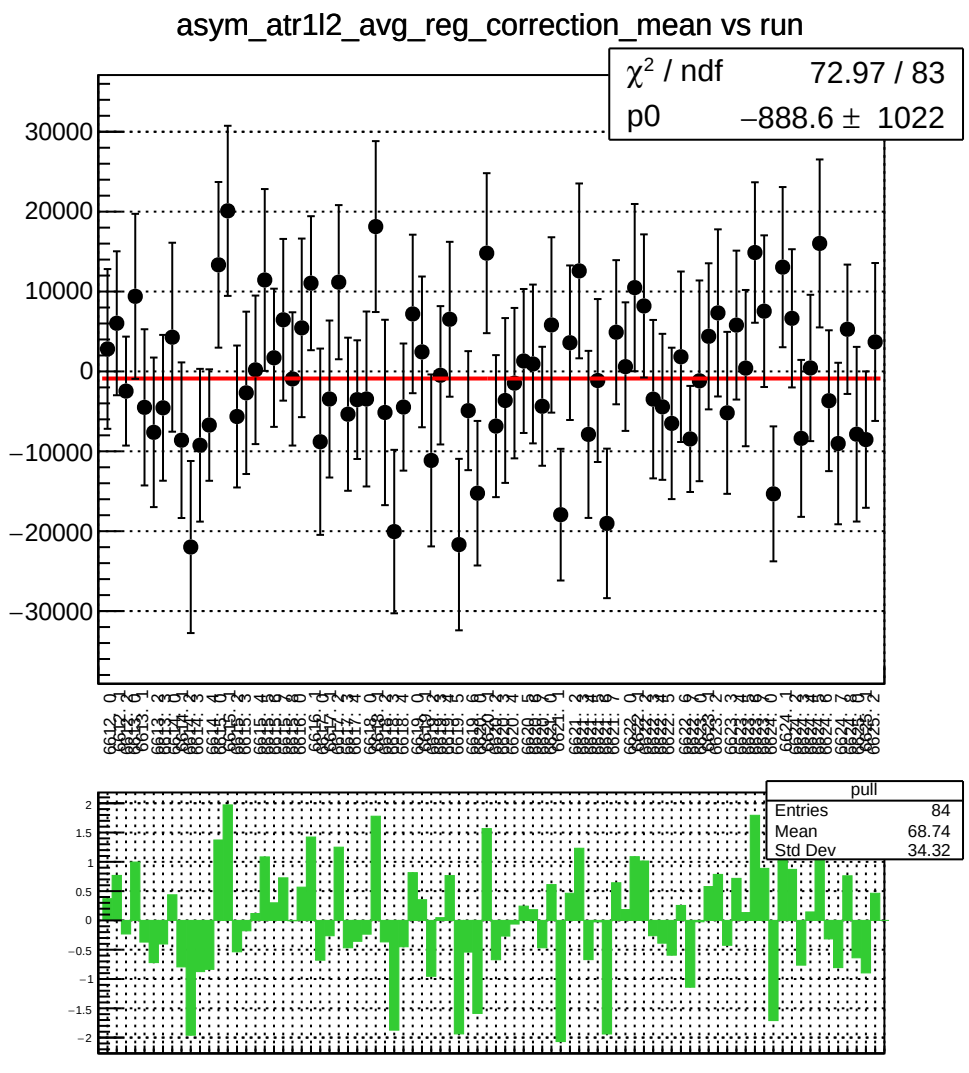

pull1D
Entries 84
Mean 0.01324
Std Dev 0.9654

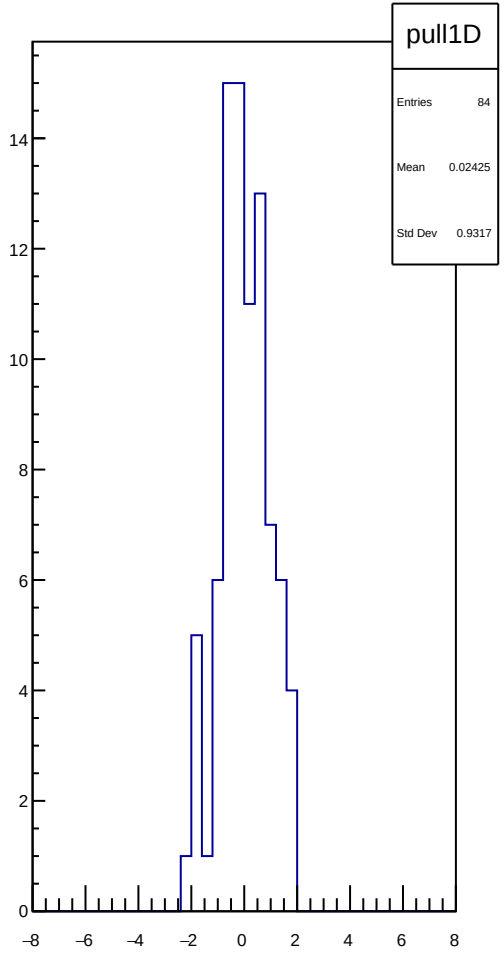

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.321e+05 / 83
p0 5.255e−11 ± 5.01e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

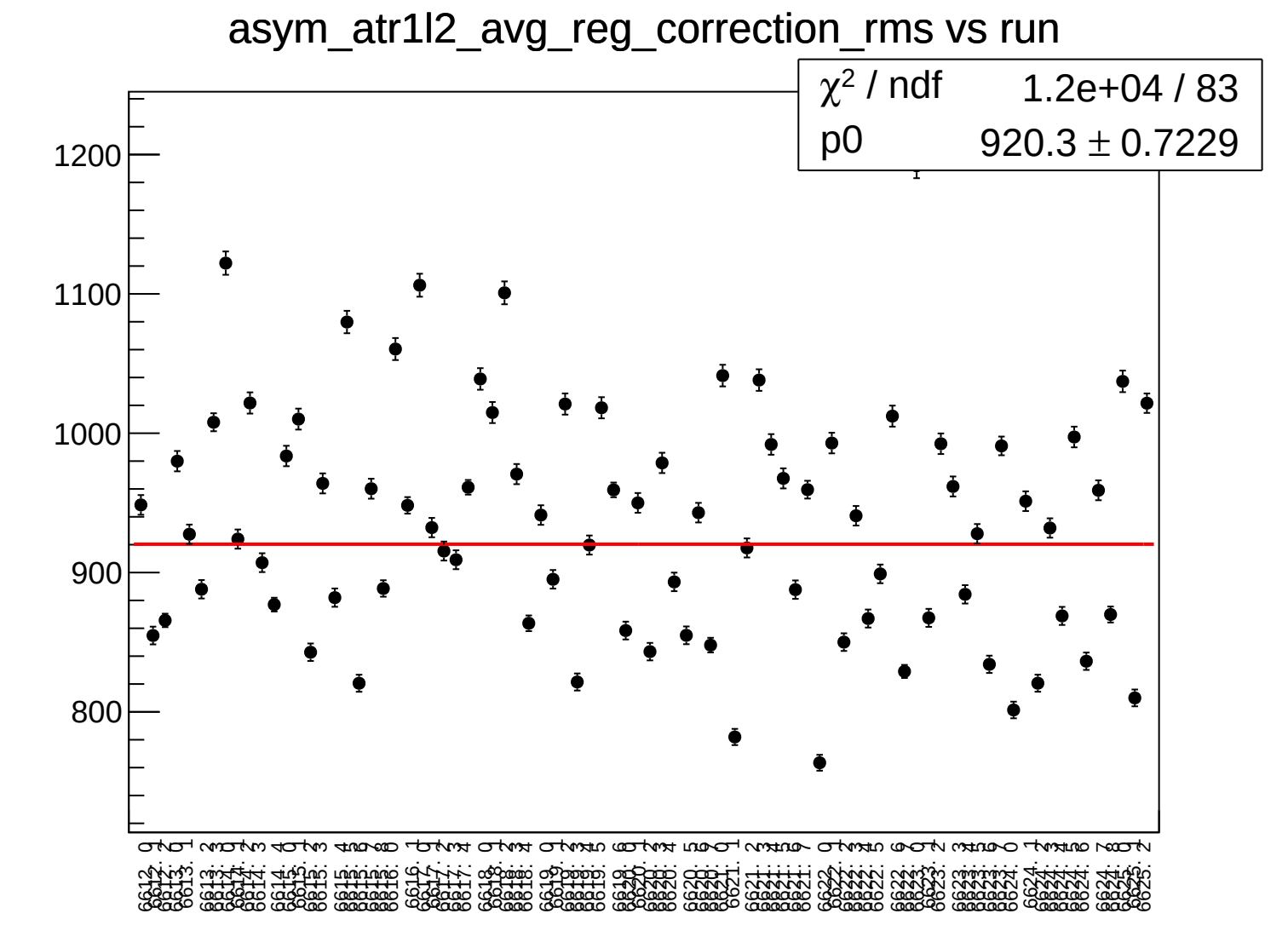

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 77.7 / 83
p0 2163 ± 3355
100
50
0
−50
−100
pull
Entries 84
Mean 639.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

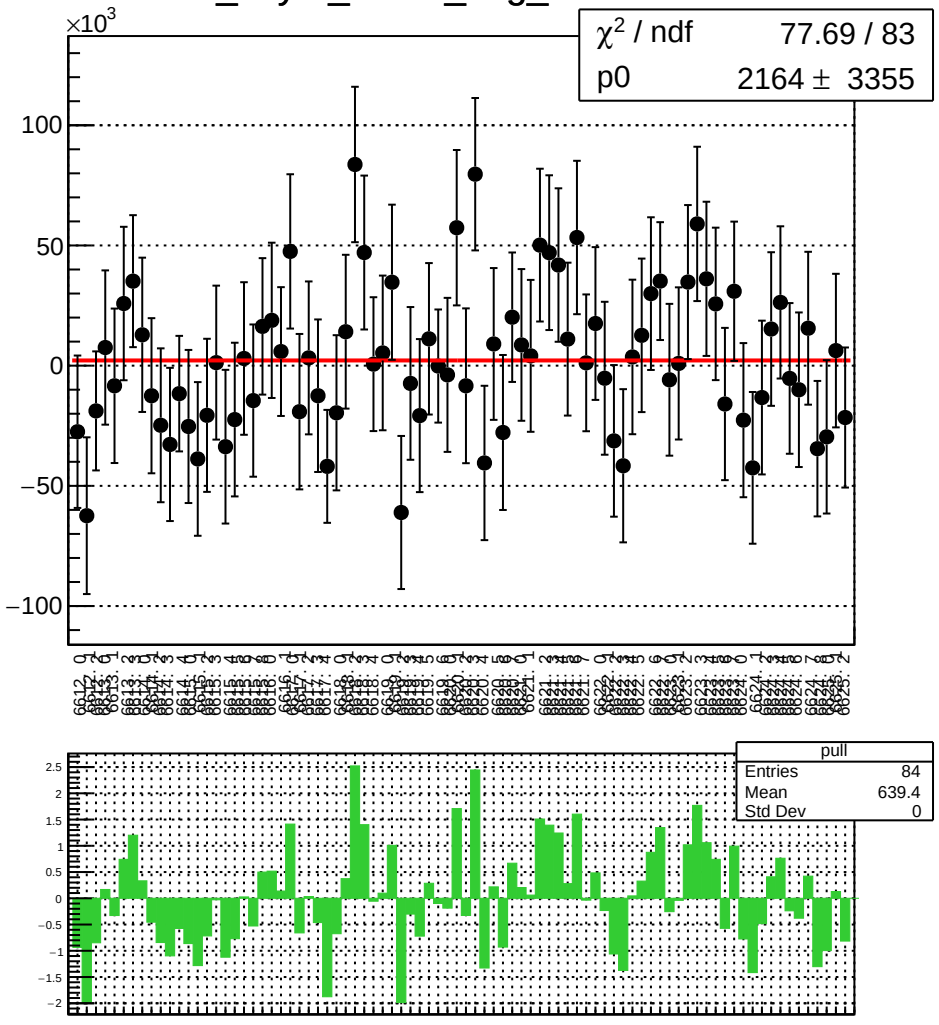

pull1D
Entries 84
Mean 0.006257
Std Dev 0.9617
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

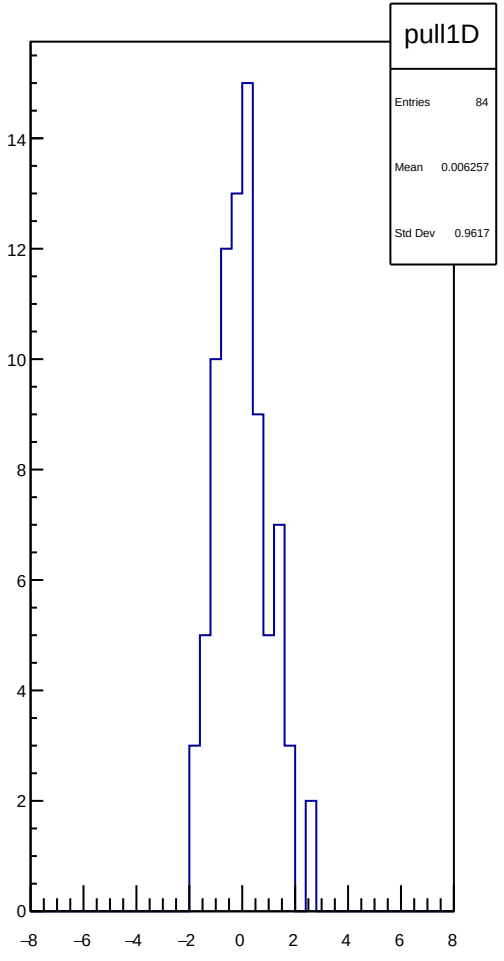

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 122.7 / 83
p0 3031 ± 2.373
3150
3100
3050
3000
2950

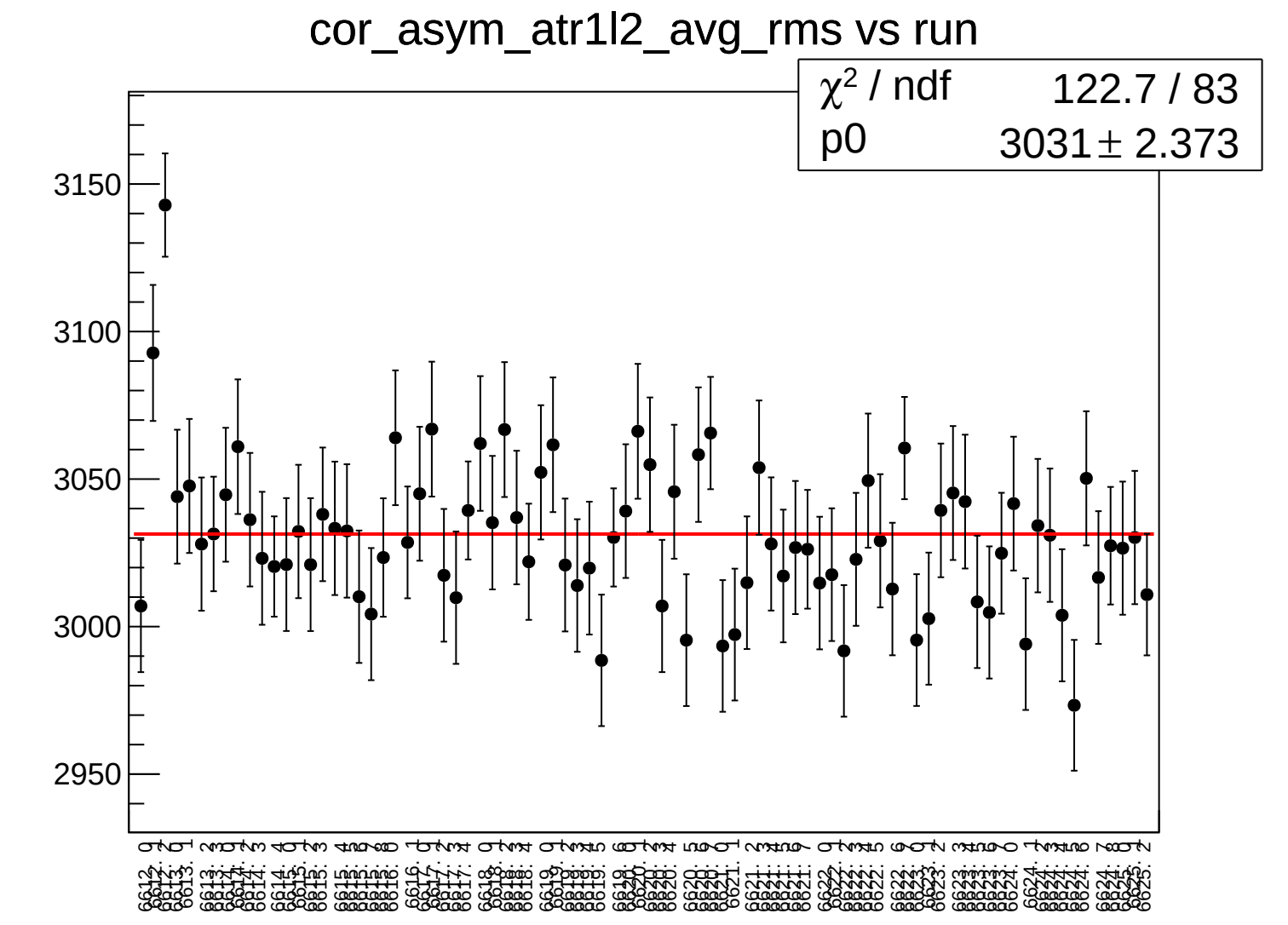

asym_atr1l2_avg_reg_correction_mean vs run
χ² / ndf 72.97 / 83
p0 −888.6 ± 1022
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 68.74
Std Dev 34.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

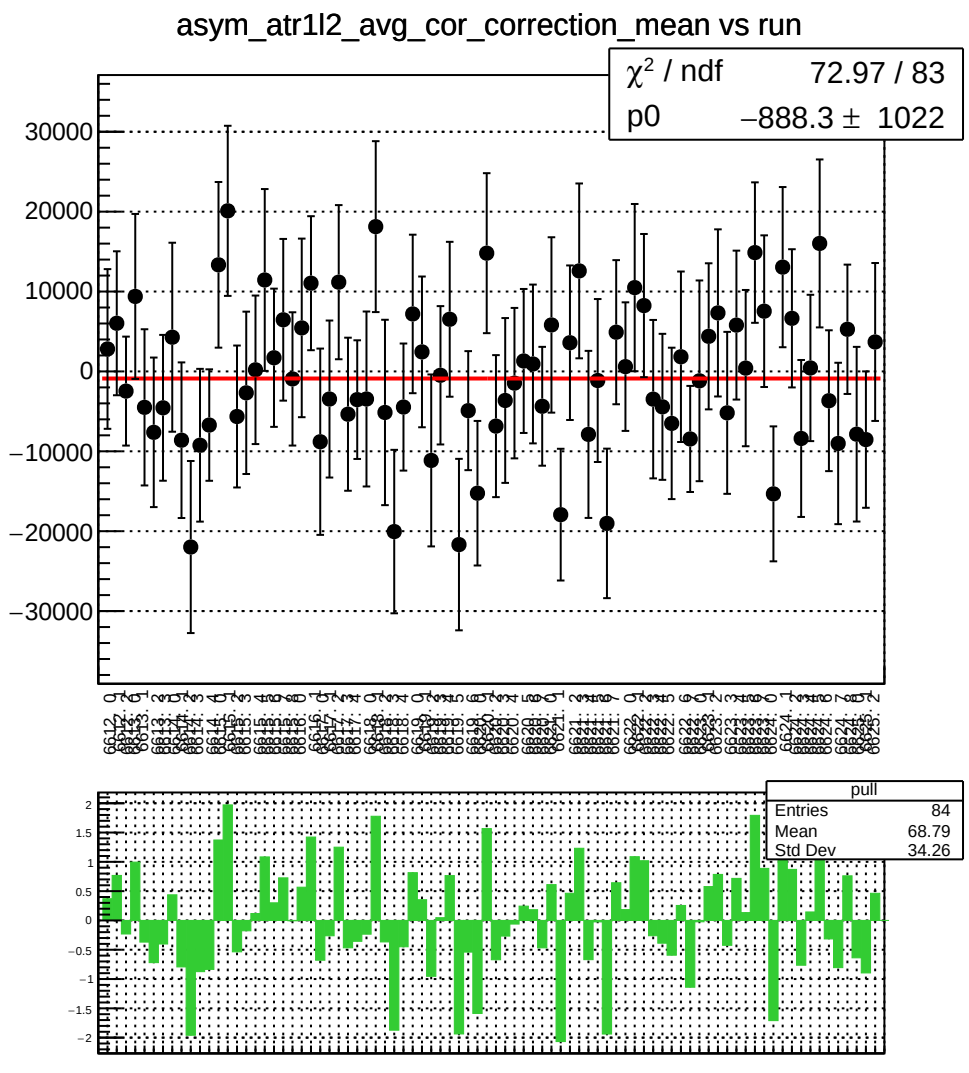

pull1D
Entries 84
Mean 0.02425
Std Dev 0.9317
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

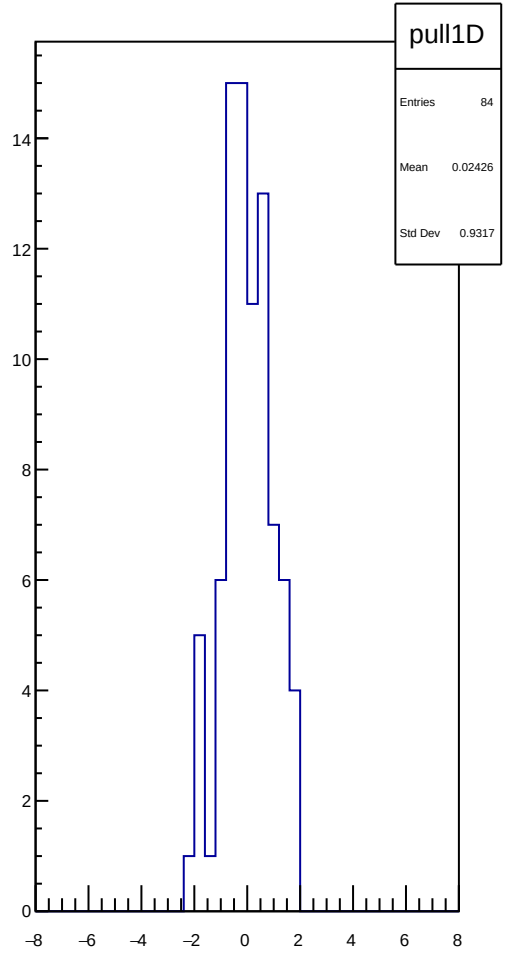

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 1.2e+04 / 83
p0 920.3 ± 0.7229
1200
1100
1000
900
800

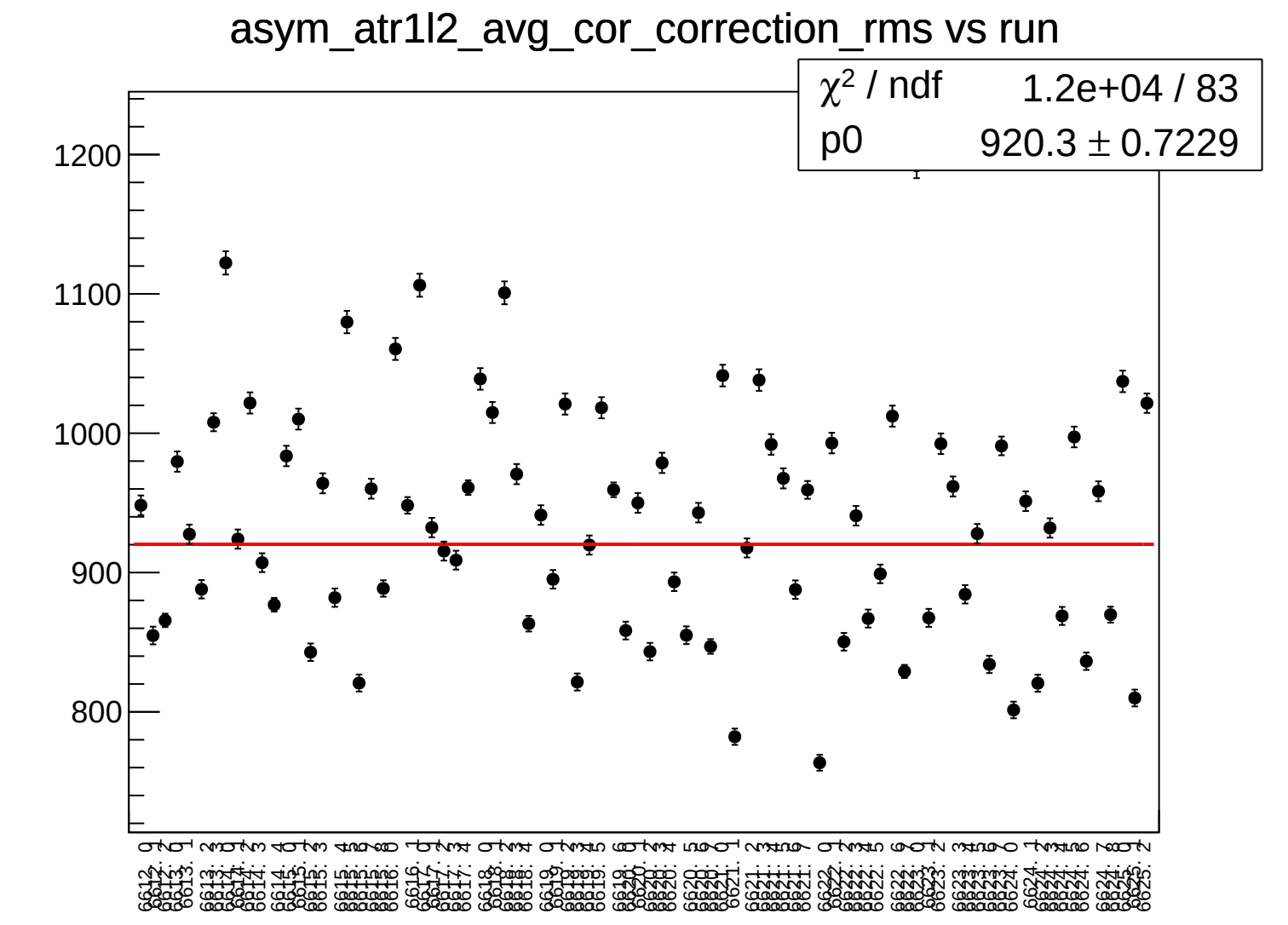

cor_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 77.69 / 83
p0 2164 ± 3355
100
50
0
−50
−100
pull
Entries 84
Mean 639.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

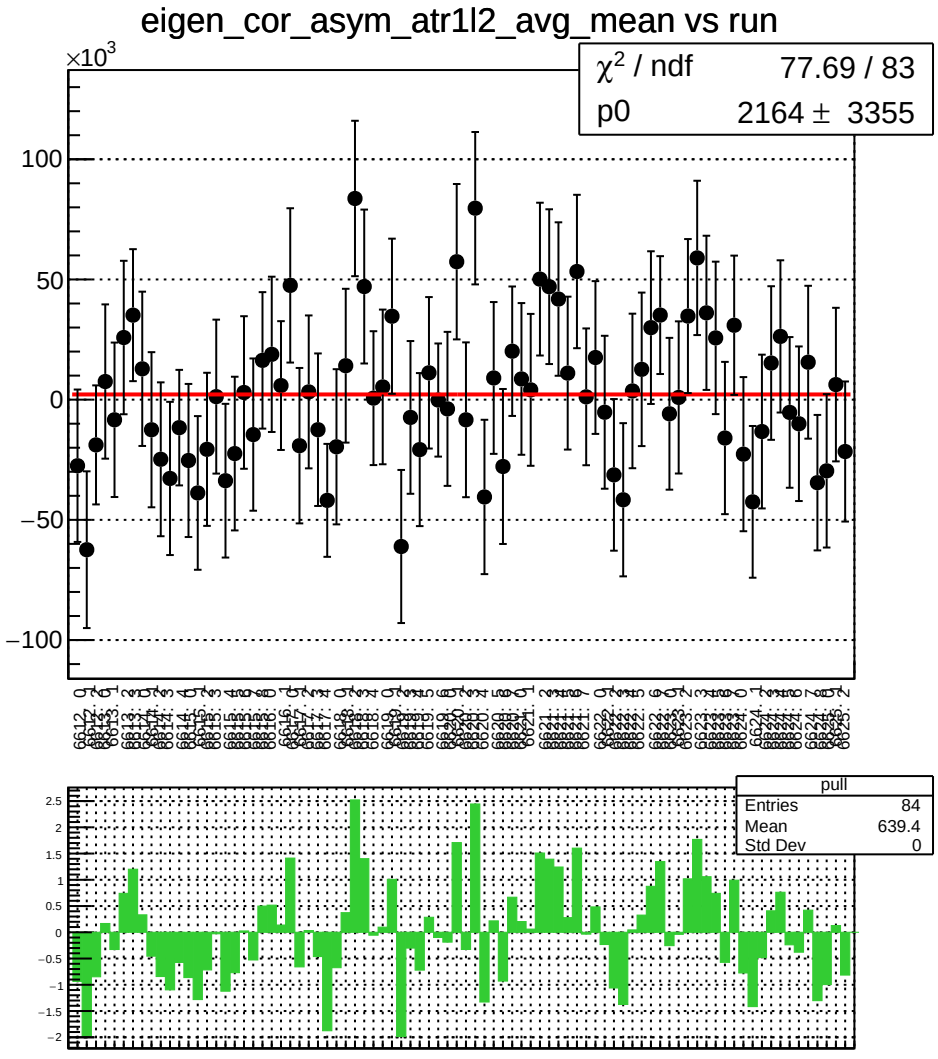

pull1D
Entries 84
Mean 0.006257
Std Dev 0.9617
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

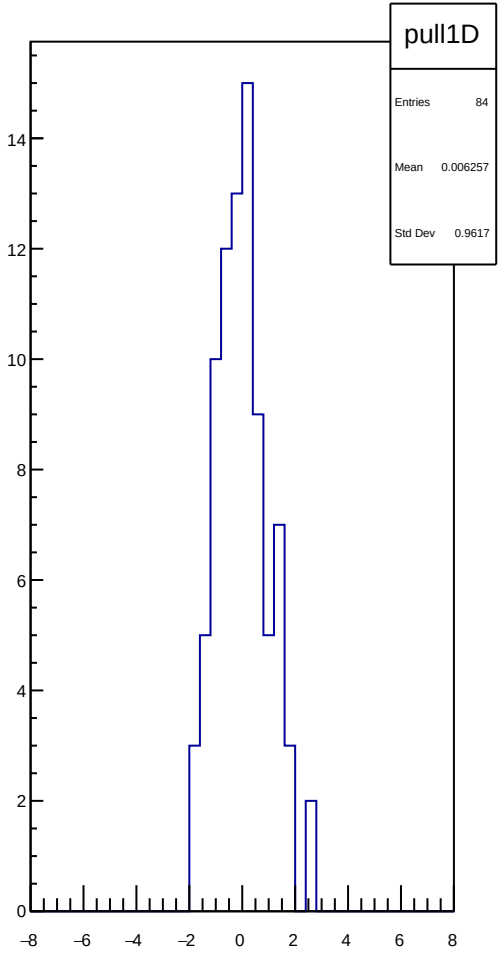

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 122.7 / 83
p0 3031 ± 2.373
3150
3100
3050
3000
2950

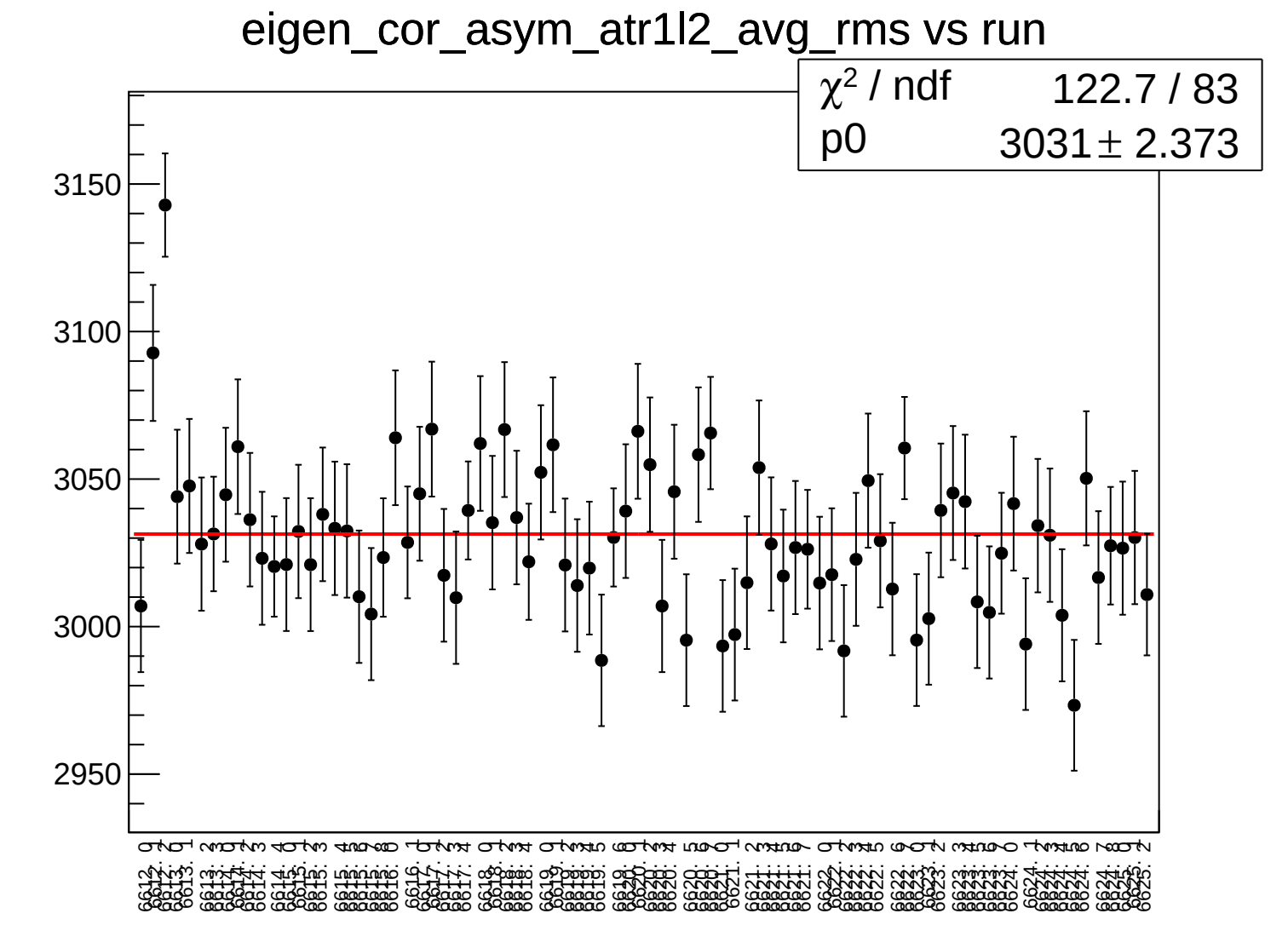

asym_atr1l2_avg_cor_correction_mean vs run
χ² / ndf 72.97 / 83
p0 −888.3 ± 1022
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 68.79
Std Dev 34.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

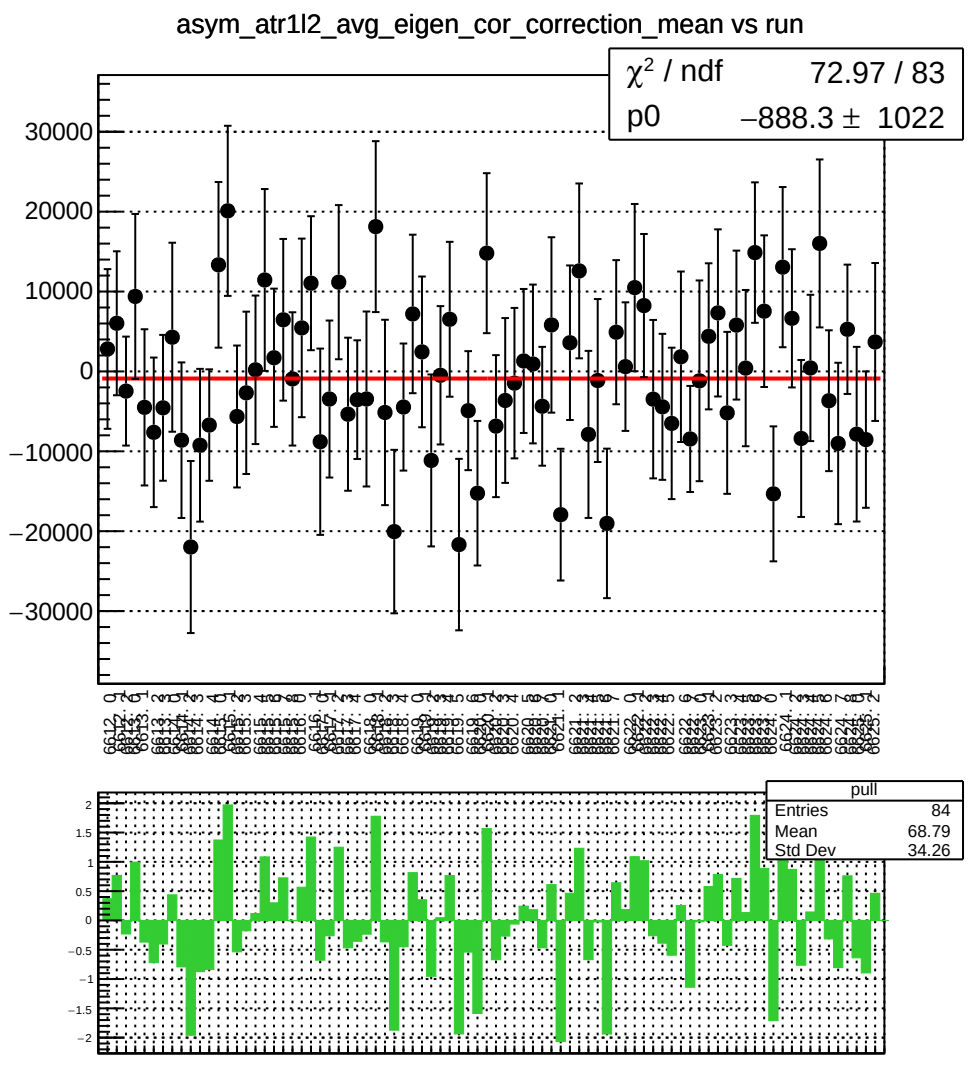

pull1D
Entries 84
Mean 0.02426
Std Dev 0.9317
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

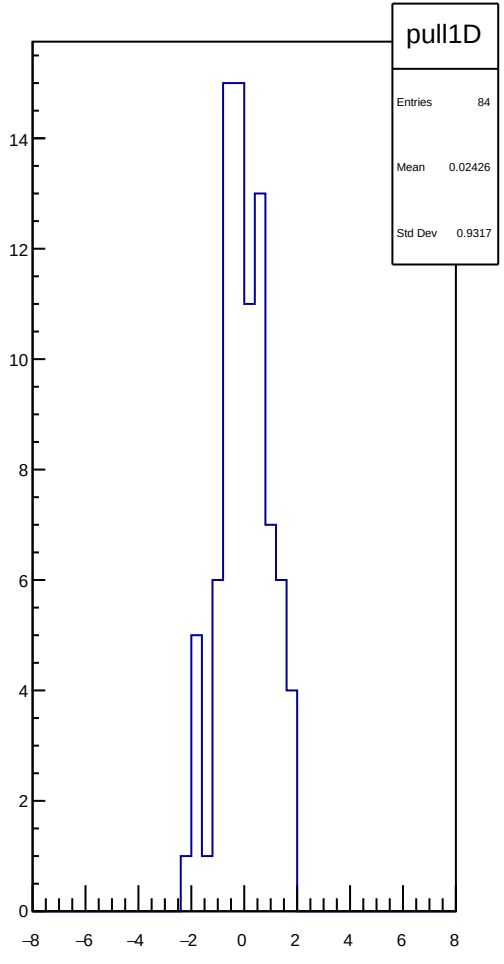

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 1.2e+04 / 83
p0 920.3 ± 0.7229
1200
1100
1000
900
800

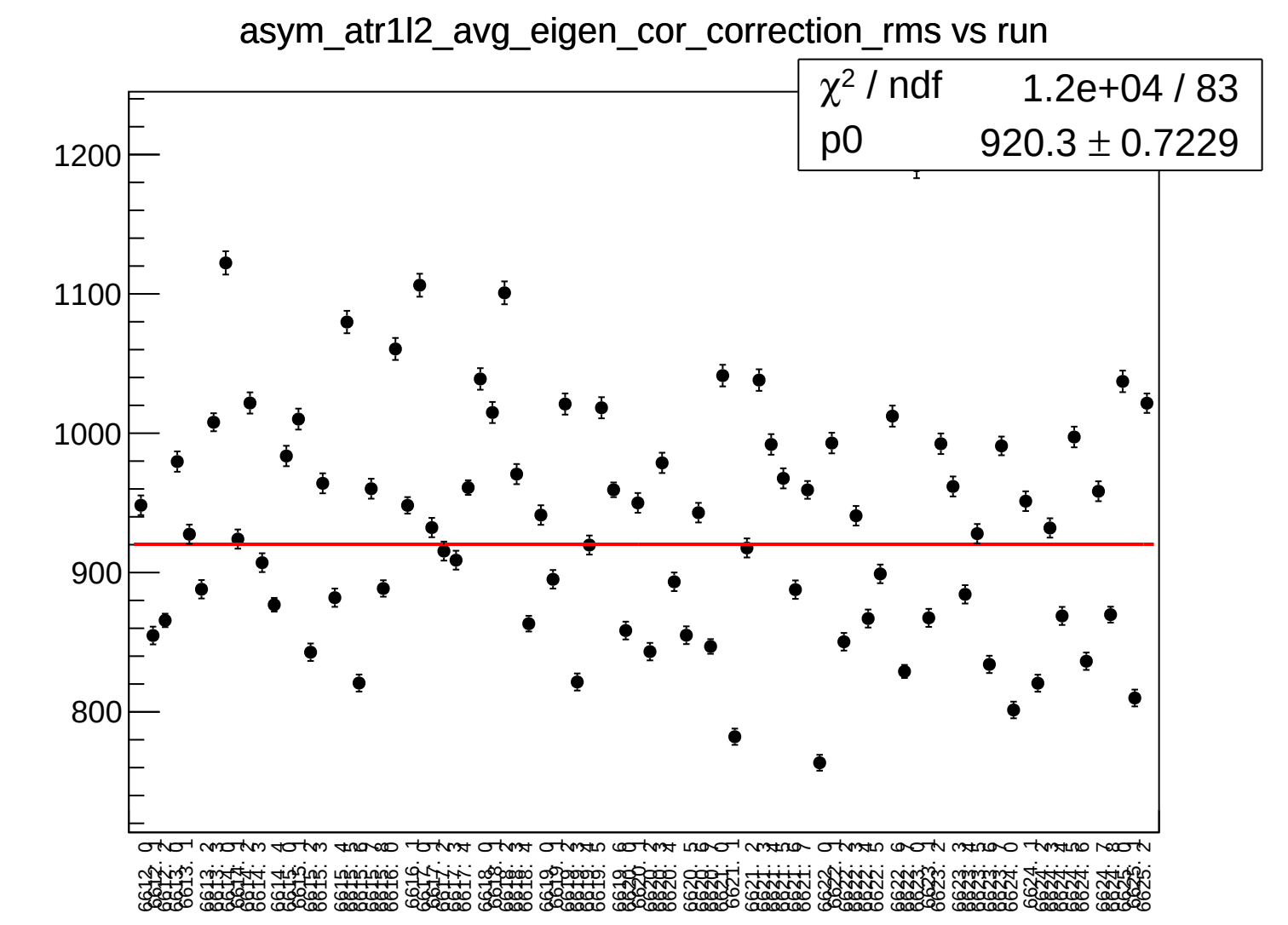

eigen_cor_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 77.69 / 83
p0 2164 ± 3355
100
50
0
−50
−100
pull
Entries 84
Mean 639.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

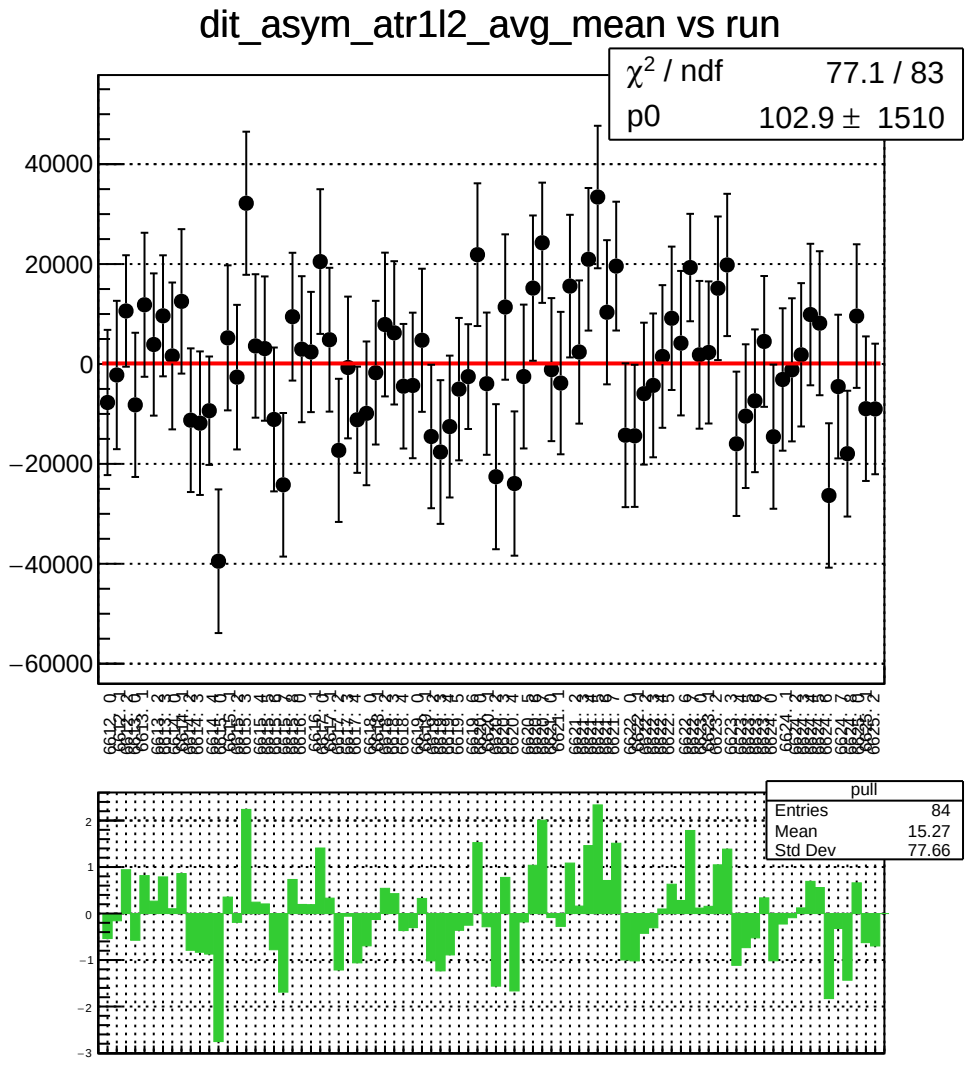

pull1D
Entries 84
Mean 0.006257
Std Dev 0.9617
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

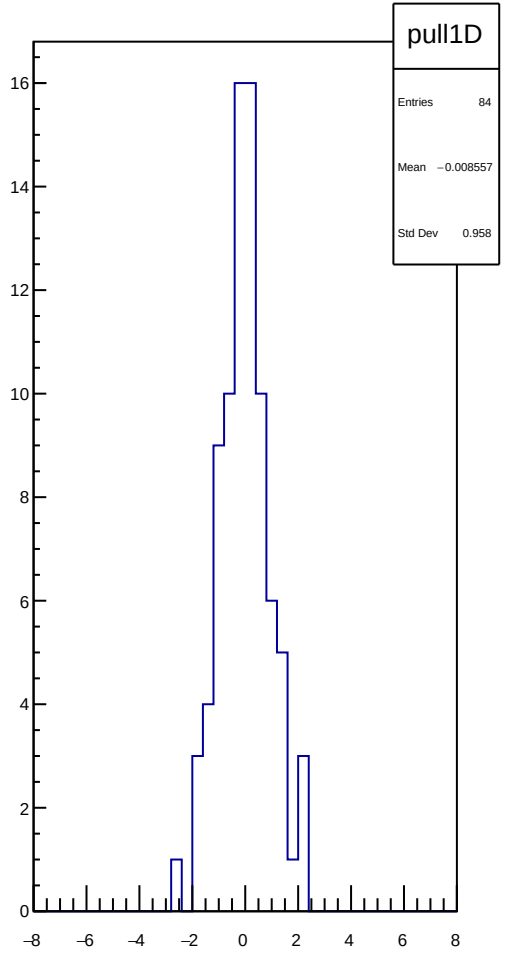

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 122.7 / 83
p0 3031 ± 2.373
3150
3100
3050
3000
2950

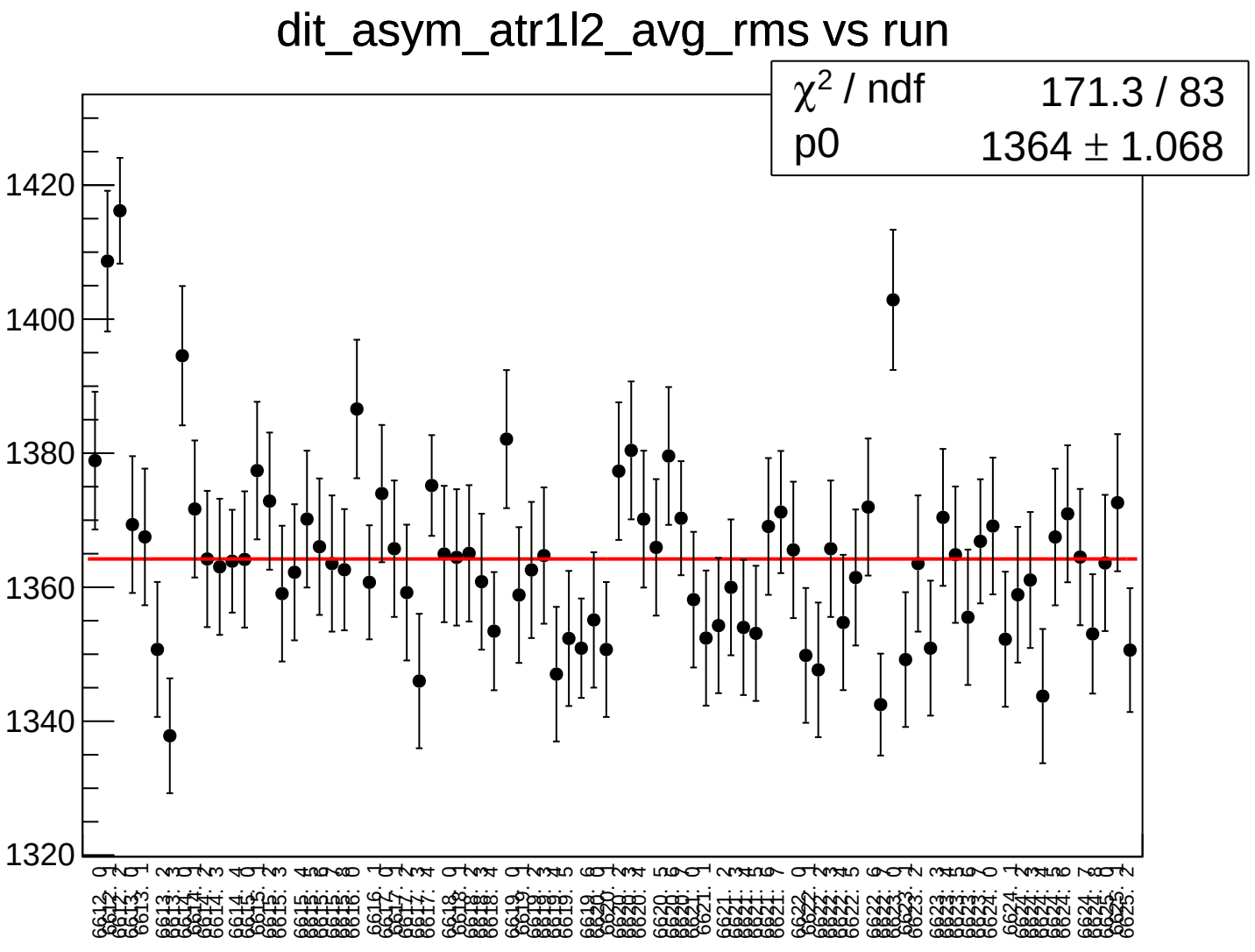

asym_atr1l2_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.97 / 83
p0 −888.3 ± 1022
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 68.79
Std Dev 34.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

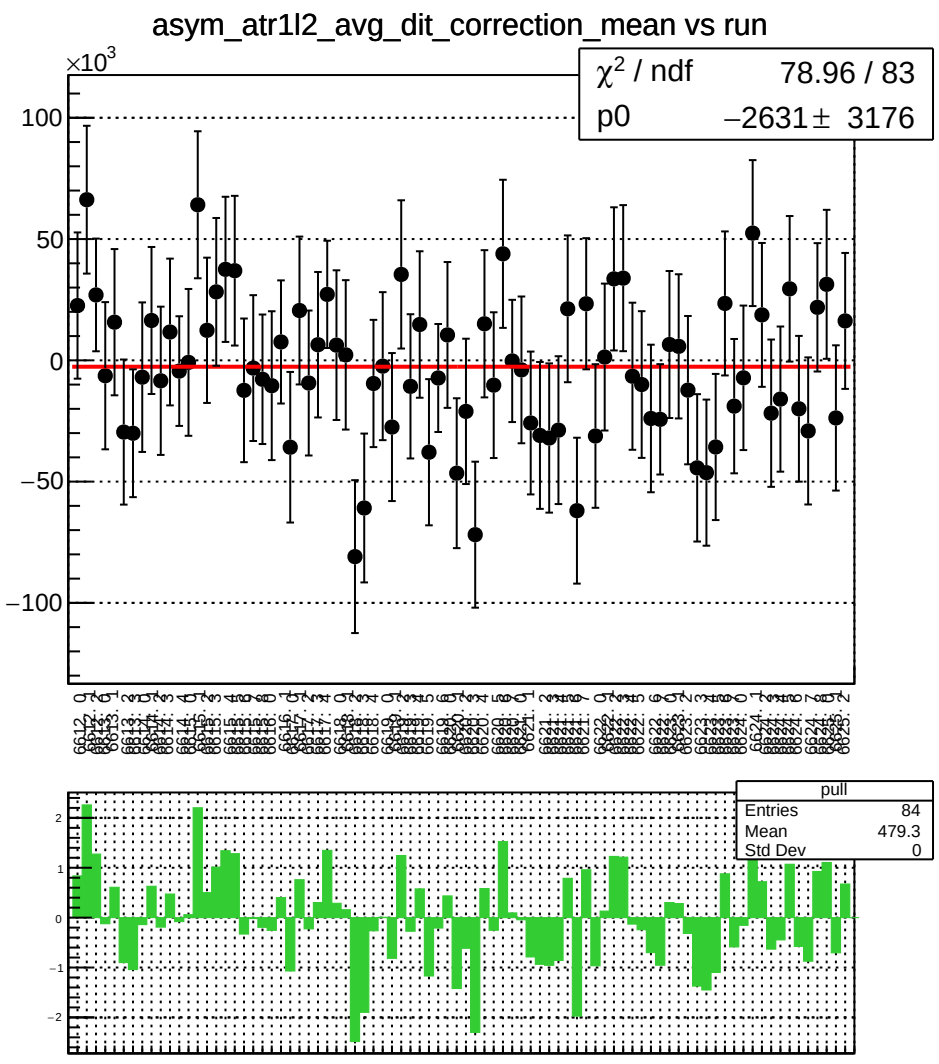

pull1D
Entries 84
Mean 0.02426
Std Dev 0.9317
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

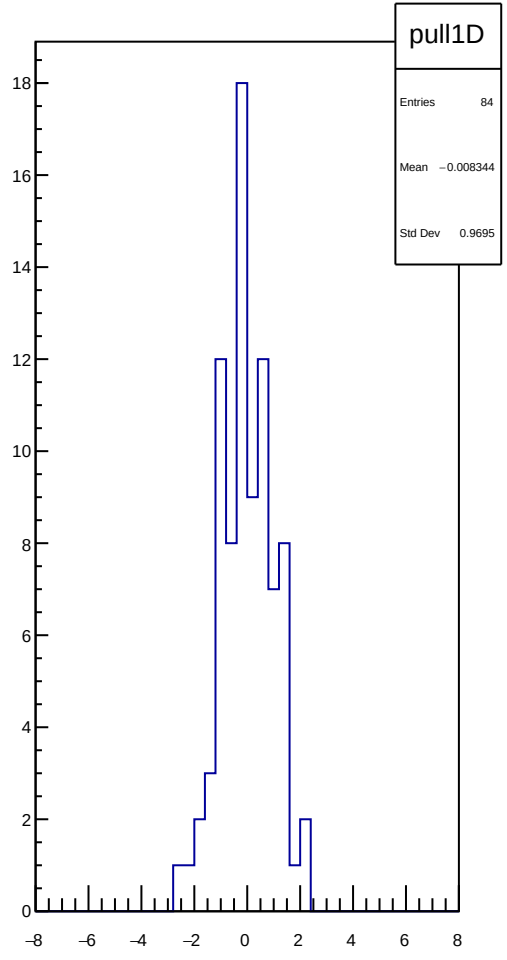

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.2e+04 / 83
p0 920.3 ± 0.7229
1200
1100
1000
900
800

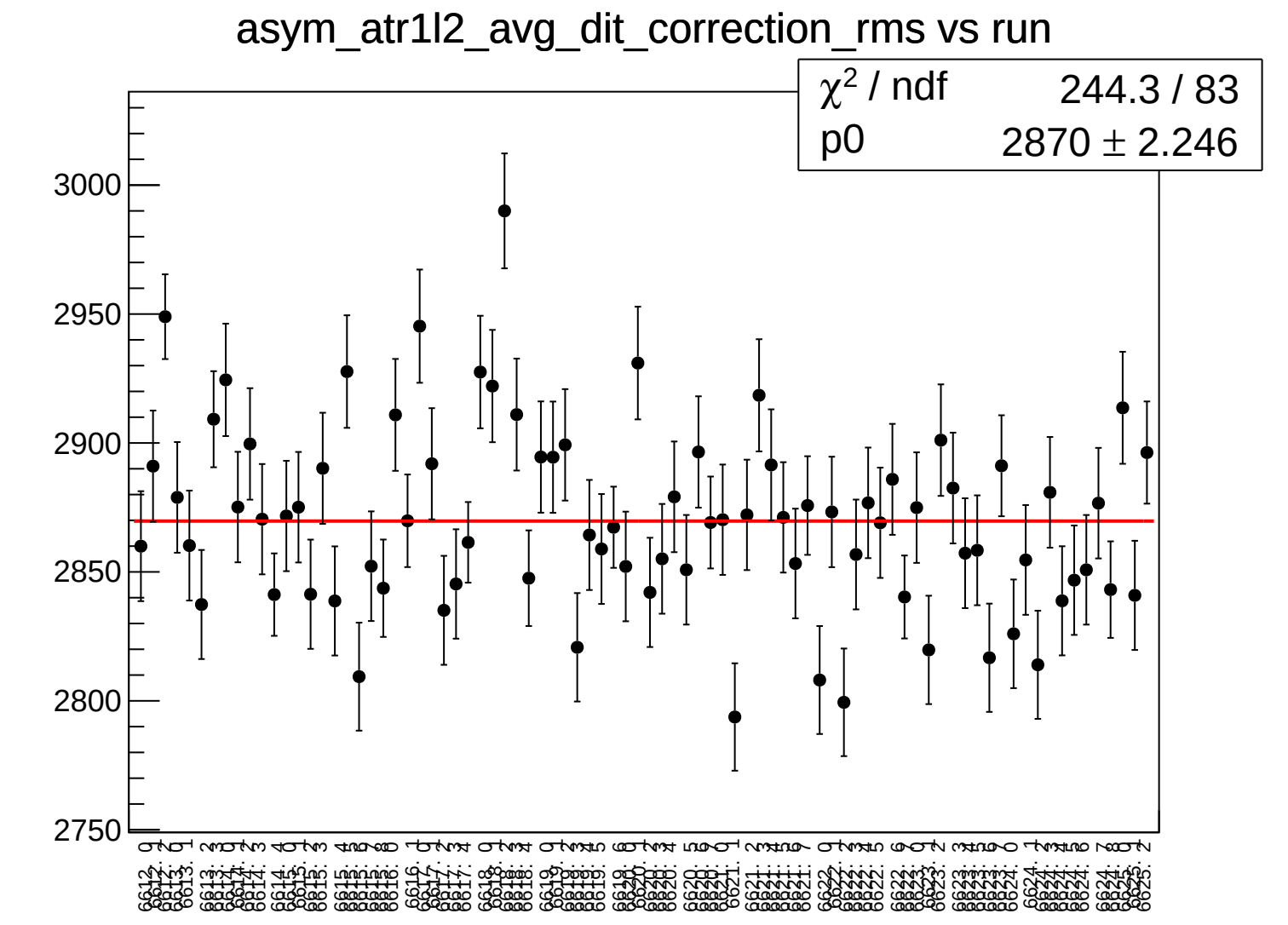

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 77.1 / 83
p0 102.9 ± 1510
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 15.27
Std Dev 77.66
2
1
0
−1
−2
−3

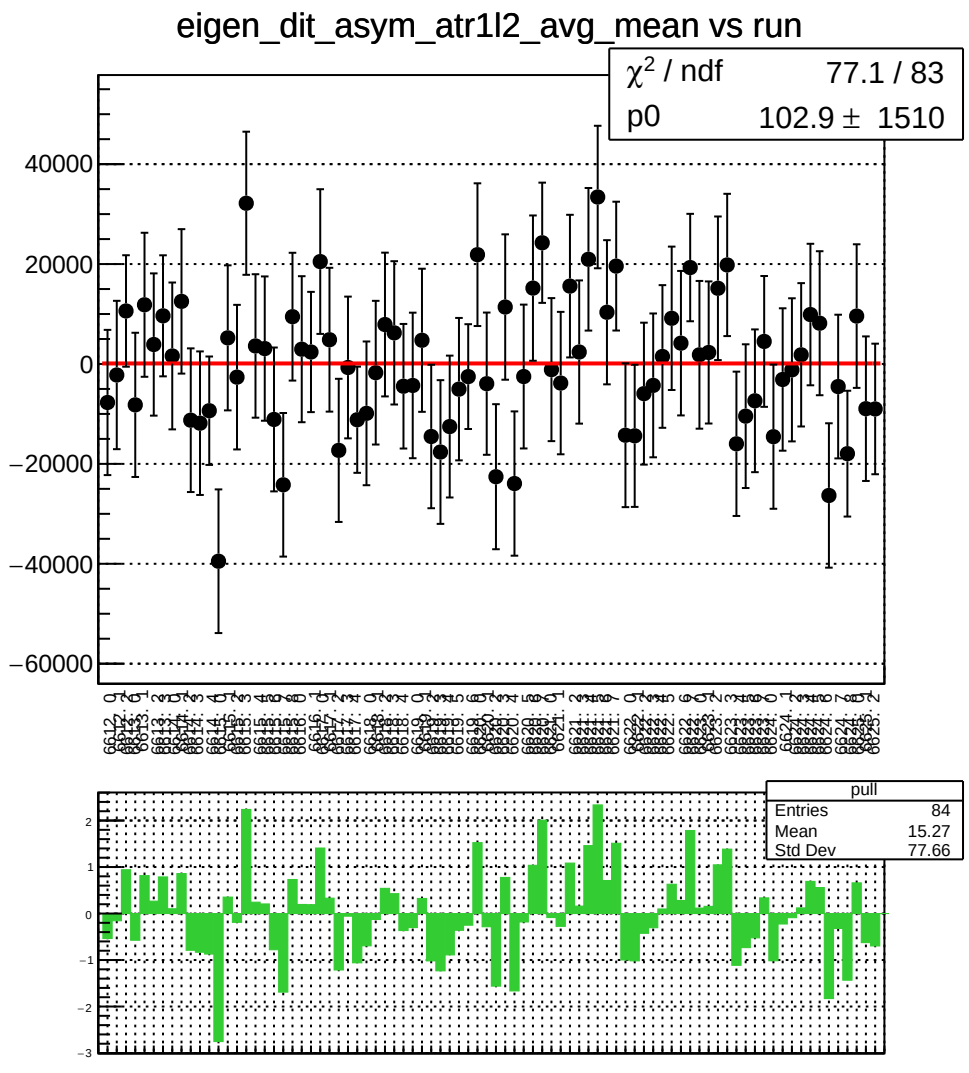

pull1D
Entries 84
Mean −0.008557
Std Dev 0.958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

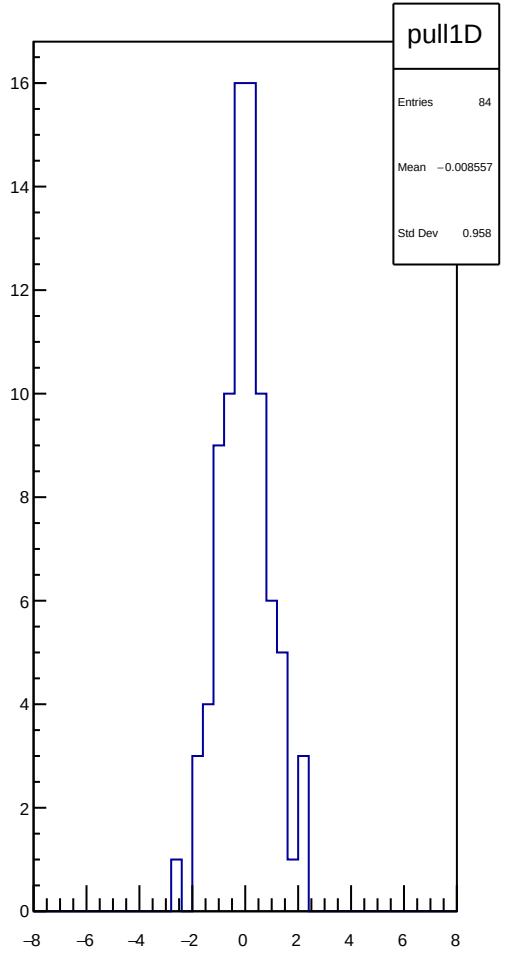

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 171.3 / 83
p0 1364 ± 1.068
1420
1400
1380
1360
1340
1320

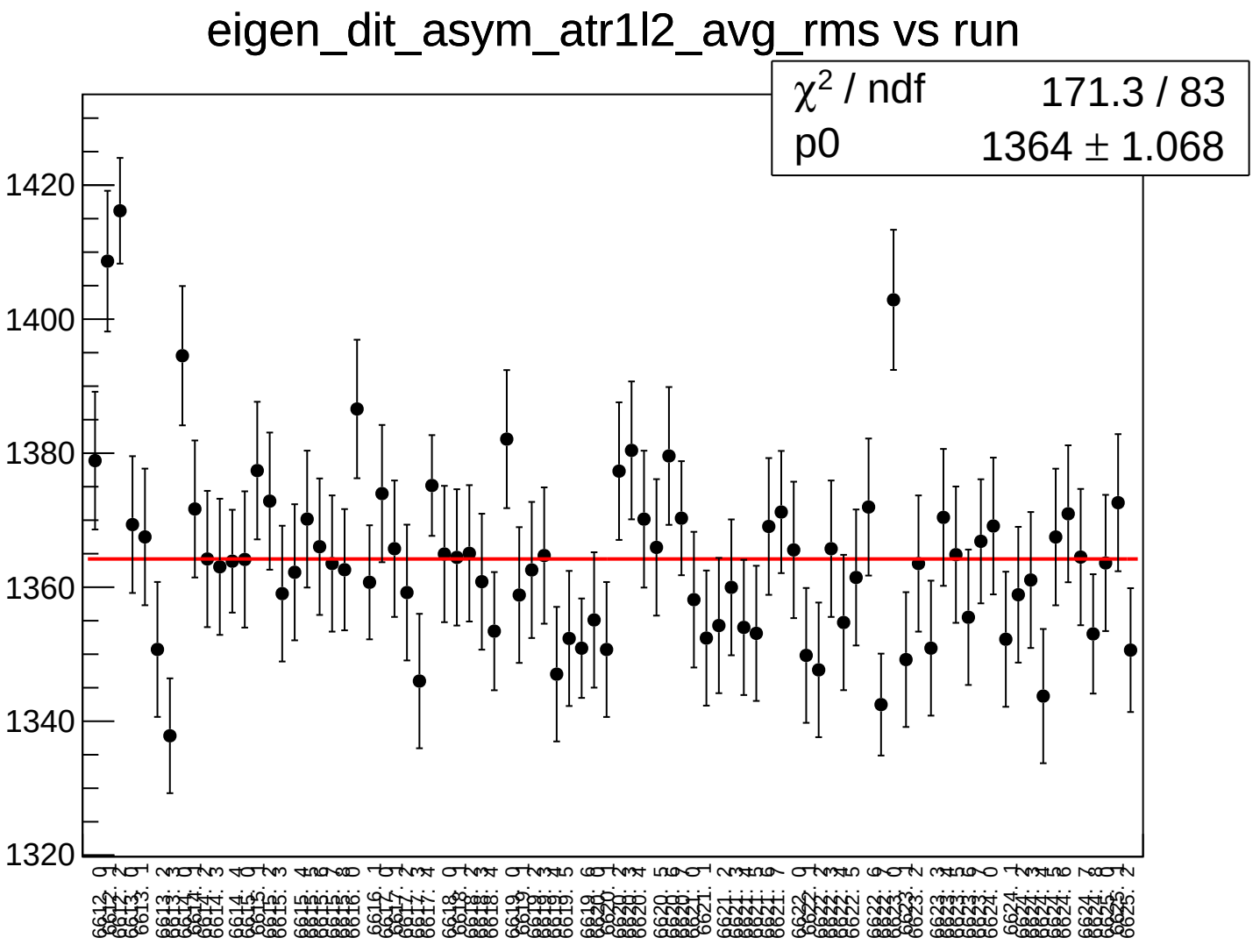

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 78.96 / 83
p0 −2631 ± 3176
100
50
0
−50
−100
pull
Entries 84
Mean 479.3
Std Dev 0
2
1
0
−1
−2

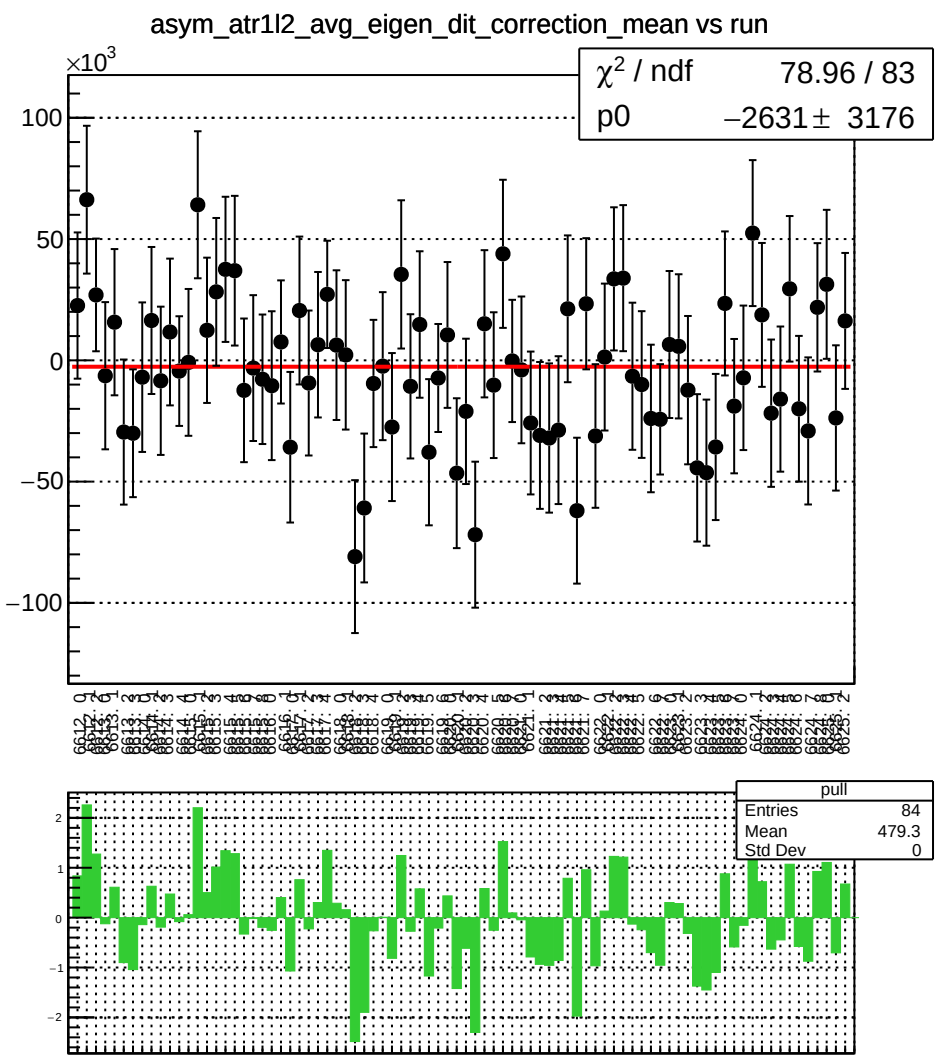

pull1D
Entries 84
Mean −0.008344
Std Dev 0.9695
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

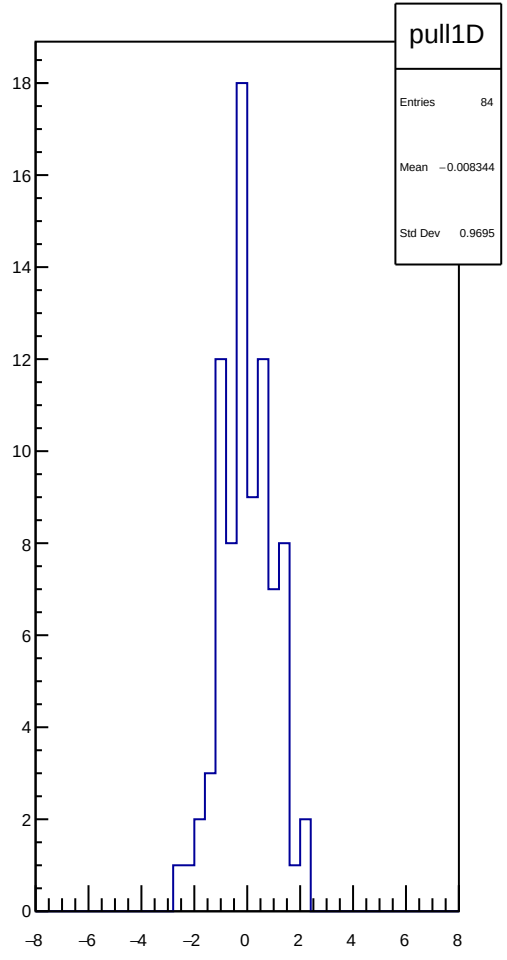

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 244.3 / 83
p0 2870 ± 2.246
3000
2950
2900
2850
2800
2750

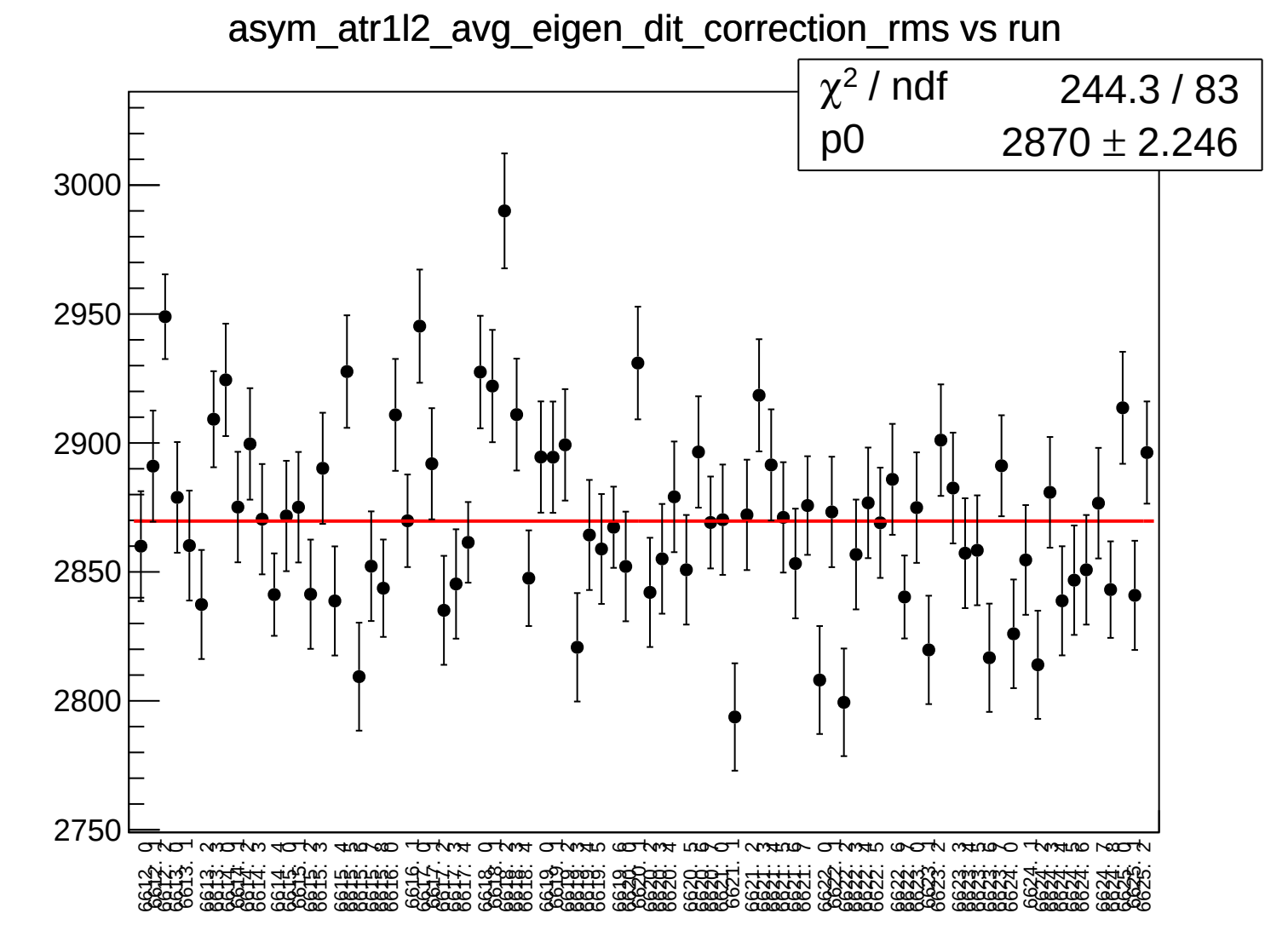

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 77.1 / 83
p0 102.9 ± 1510
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 15.27
Std Dev 77.66
2
1
0
−1
−2
−3

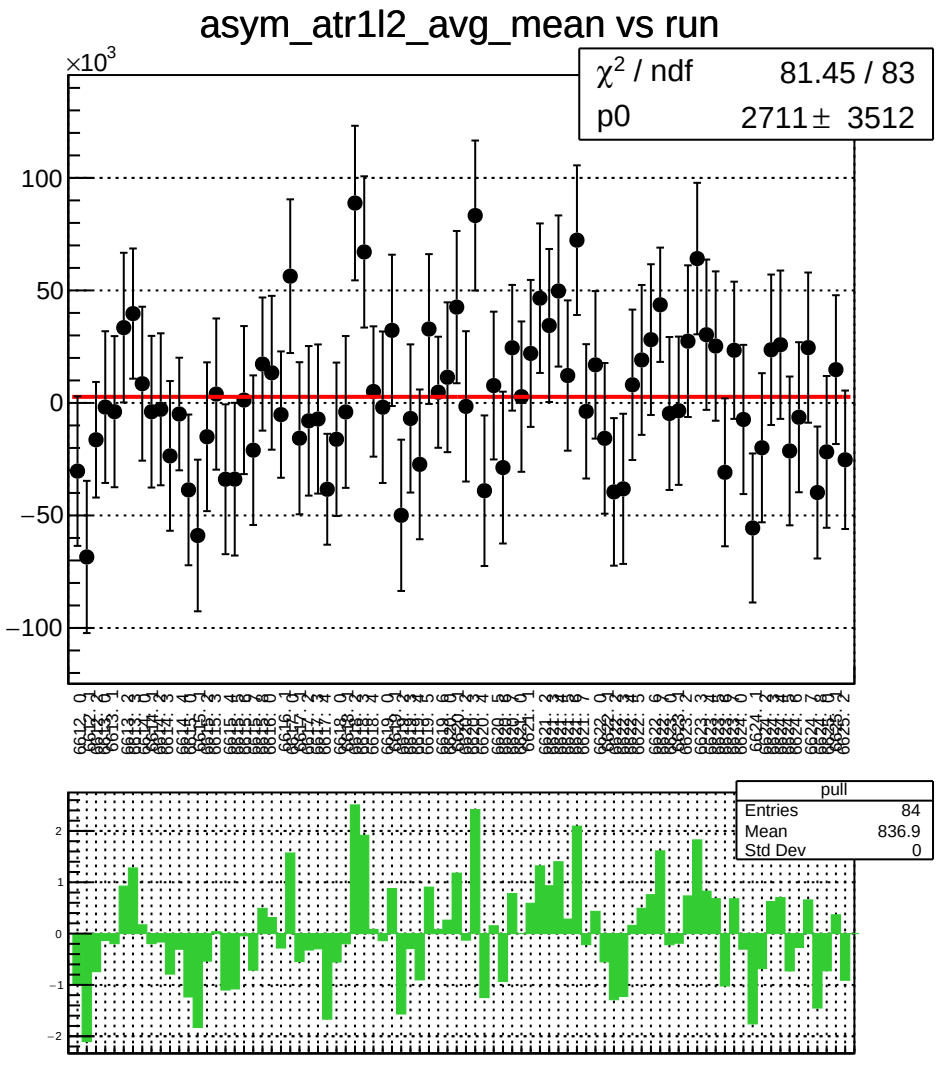

pull1D
Entries 84
Mean −0.008557
Std Dev 0.958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

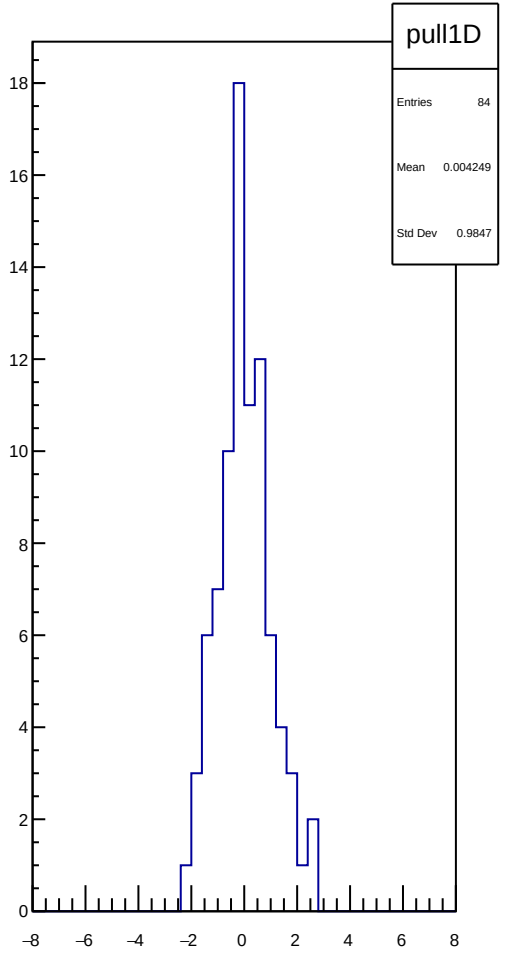

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 171.3 / 83
p0 1364 ± 1.068
1420
1400
1380
1360
1340
1320

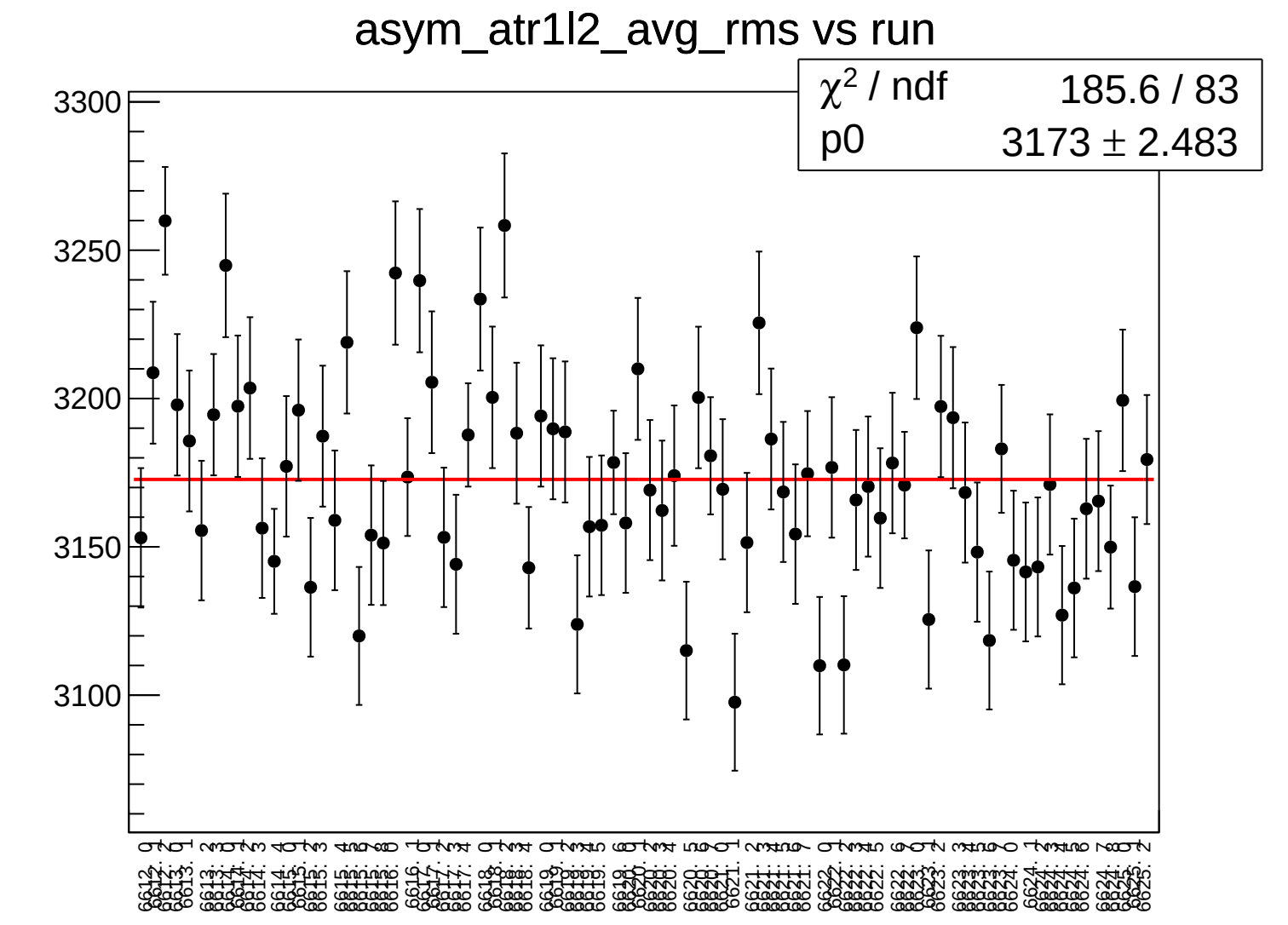

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.96 / 83
p0 −2631 ± 3176
100
50
0
−50
−100
pull
Entries 84
Mean 479.3
Std Dev 0
2
1
0
−1
−2

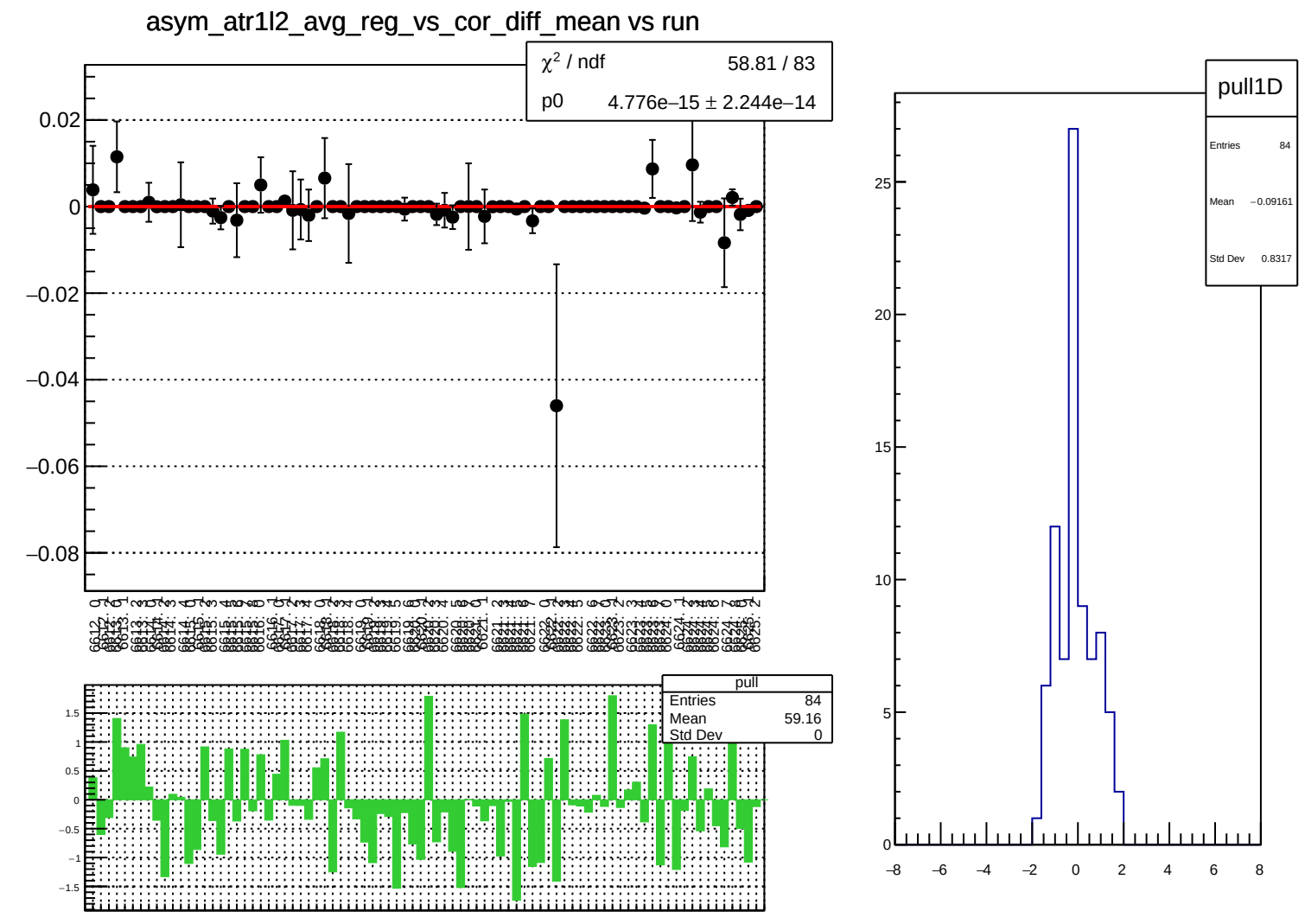

pull1D
Entries 84
Mean −0.008344
Std Dev 0.9695
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

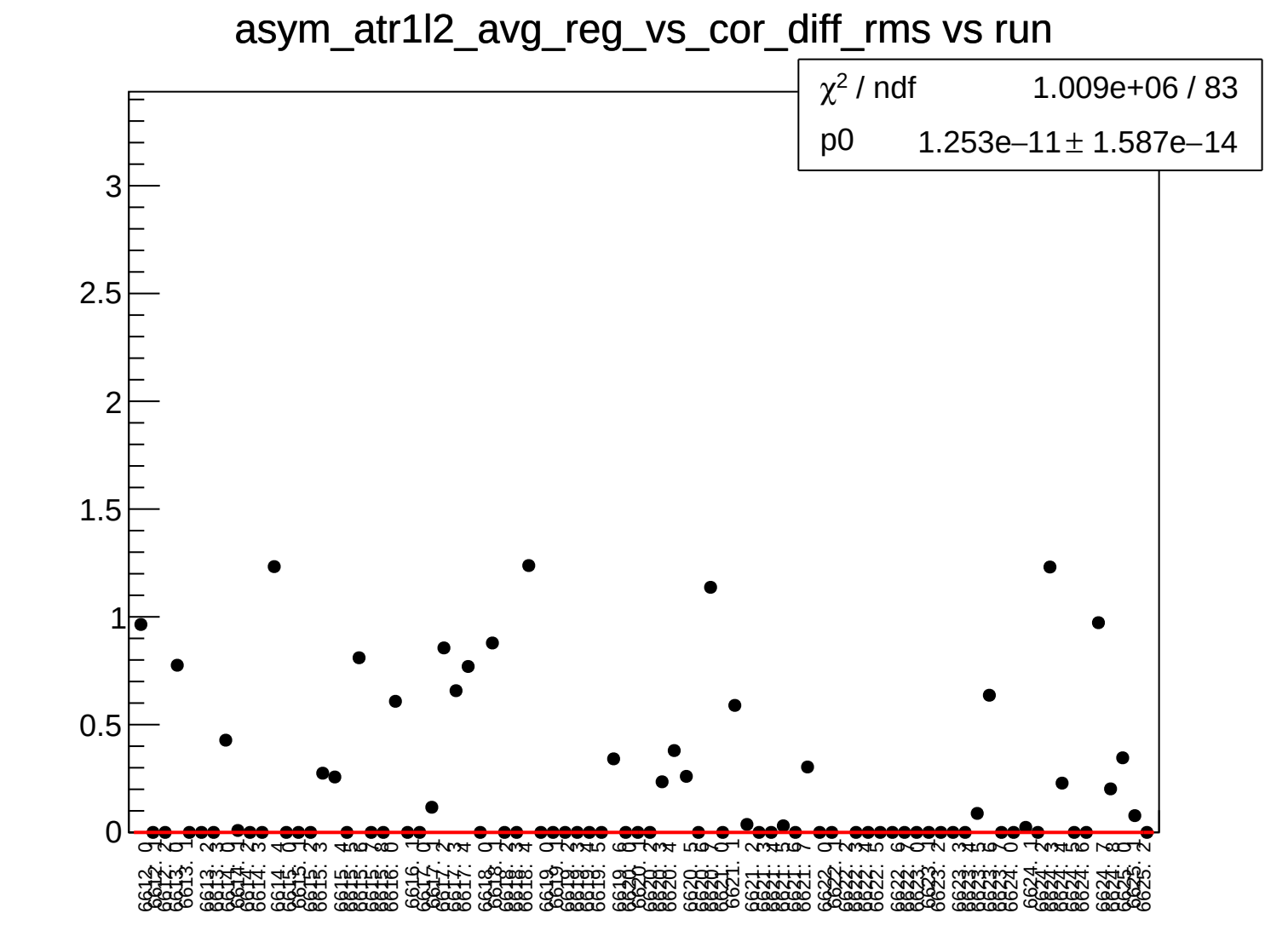

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 244.3 / 83
p0 2870 ± 2.246
3000
2950
2900
2850
2800
2750

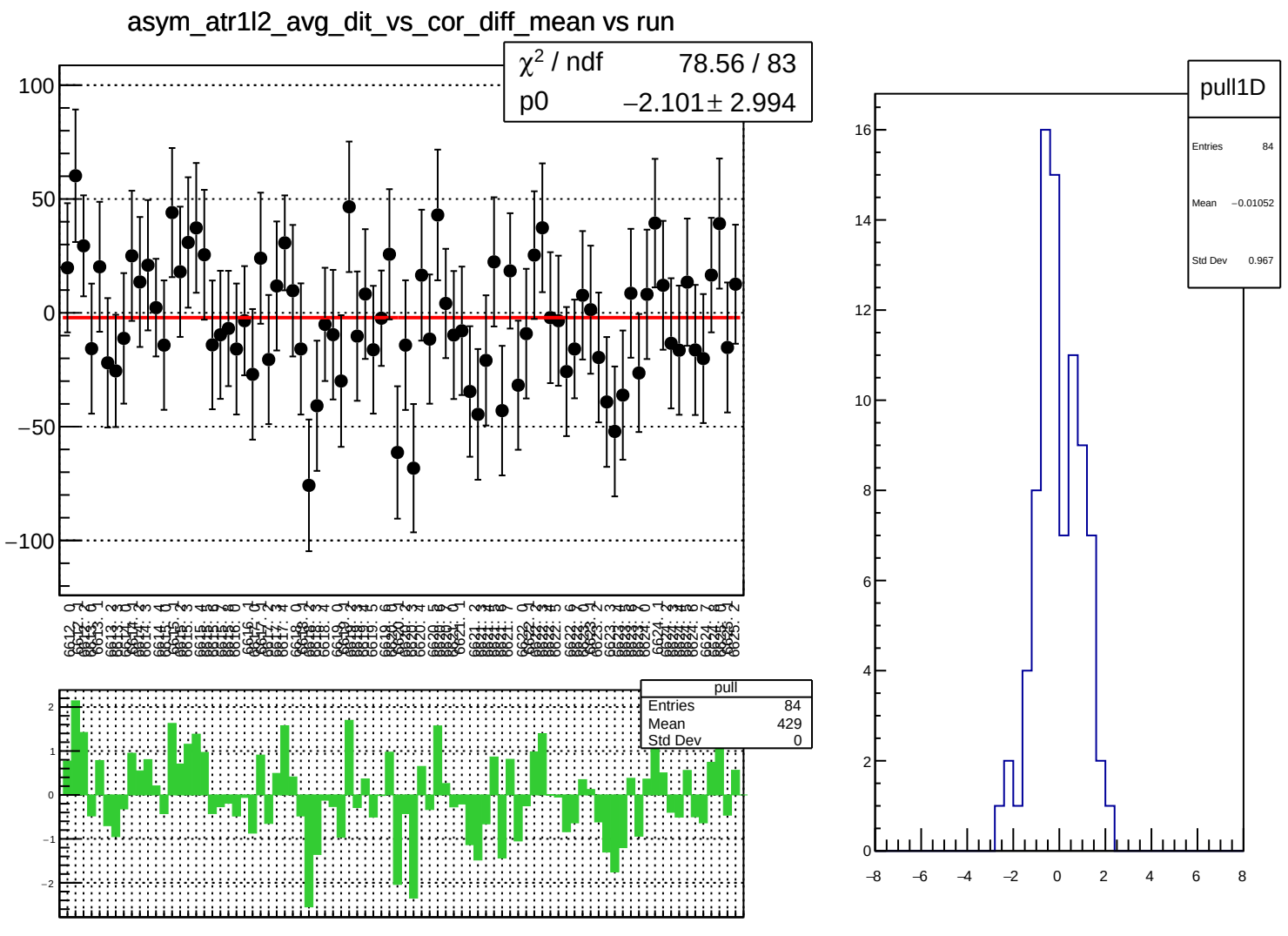

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 81.45 / 83
p0 2711 ± 3512
100
50
0
−50
−100
pull
Entries 84
Mean 836.9
Std Dev 0
2
1
0
−1
−2

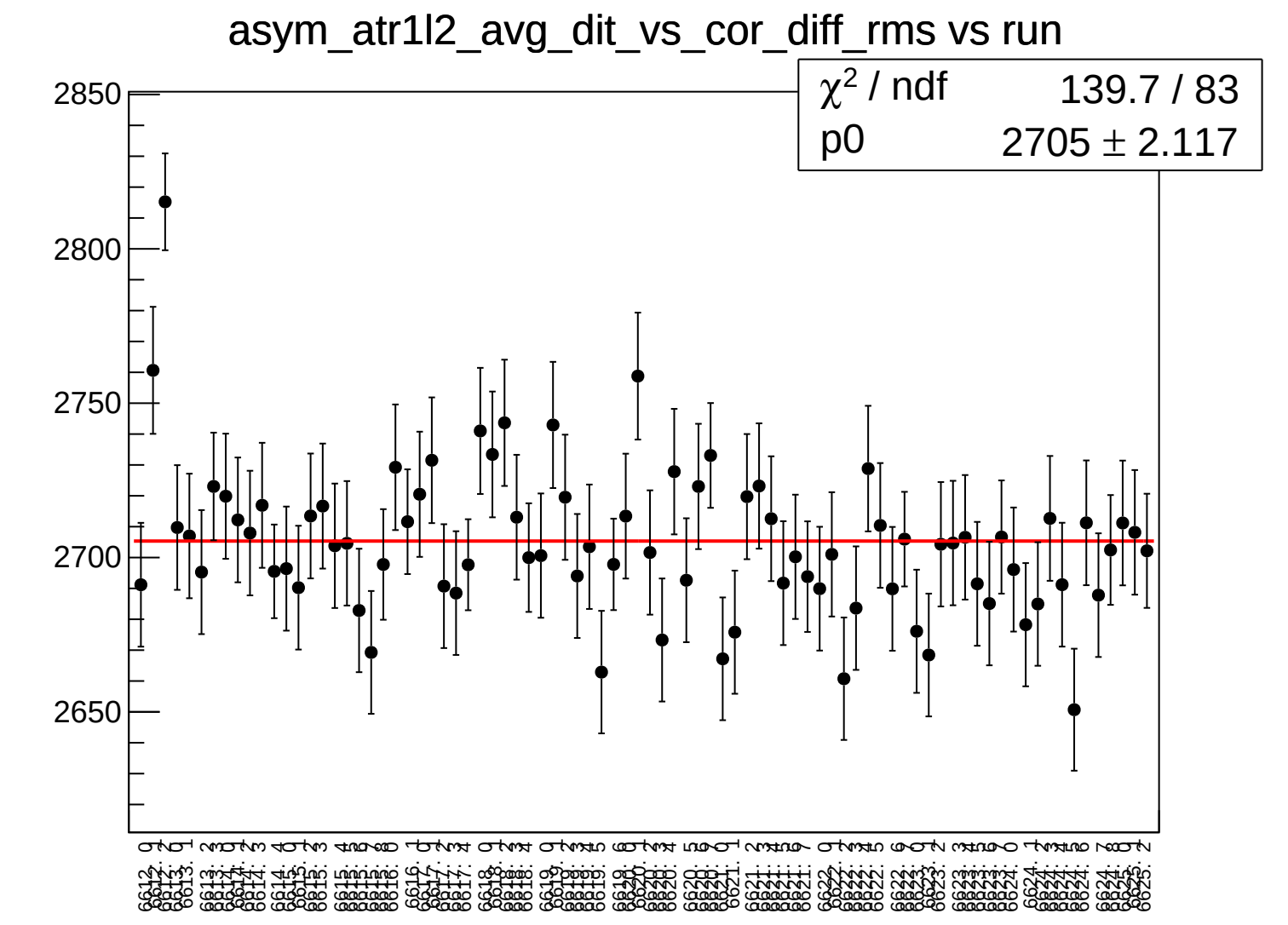

pull1D
Entries 84
Mean 0.004249
Std Dev 0.9847
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

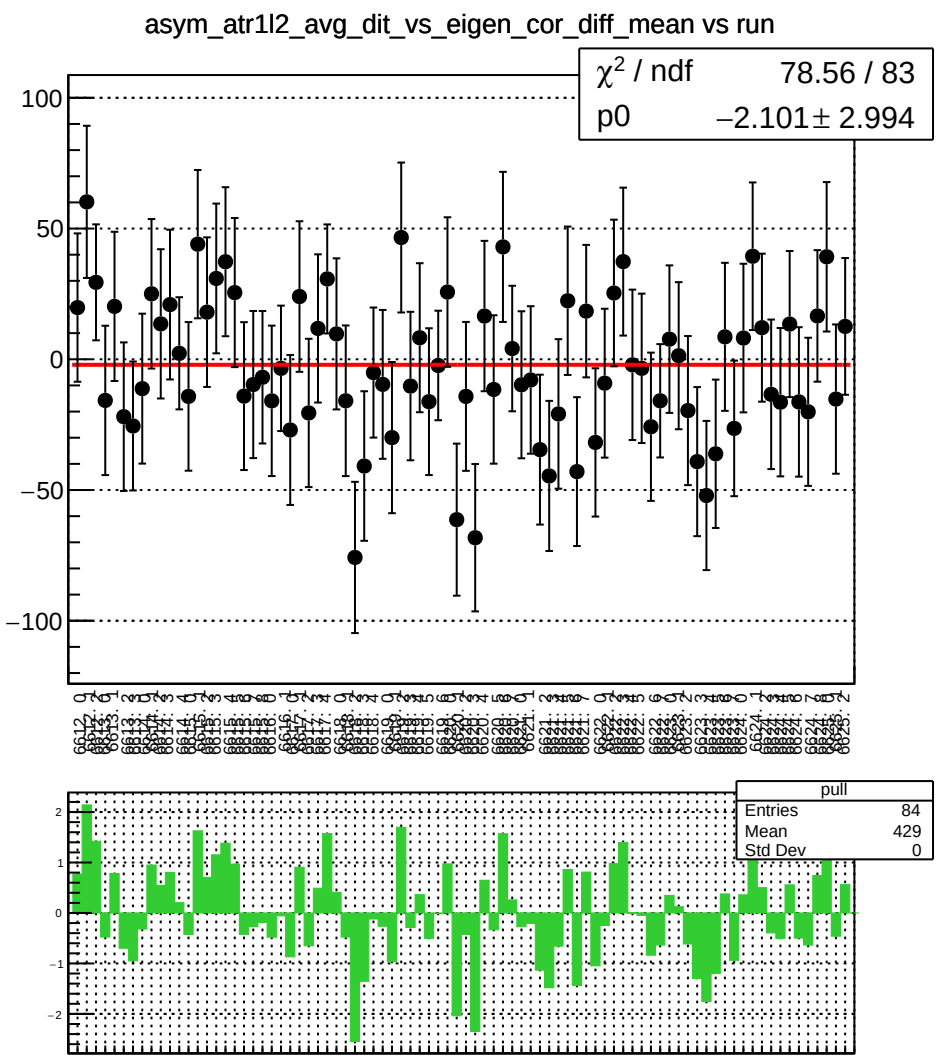

asym_atr1l2_avg_rms vs run
χ² / ndf 185.6 / 83
p0 3173 ± 2.483
3300
3250
3200
3150
3100

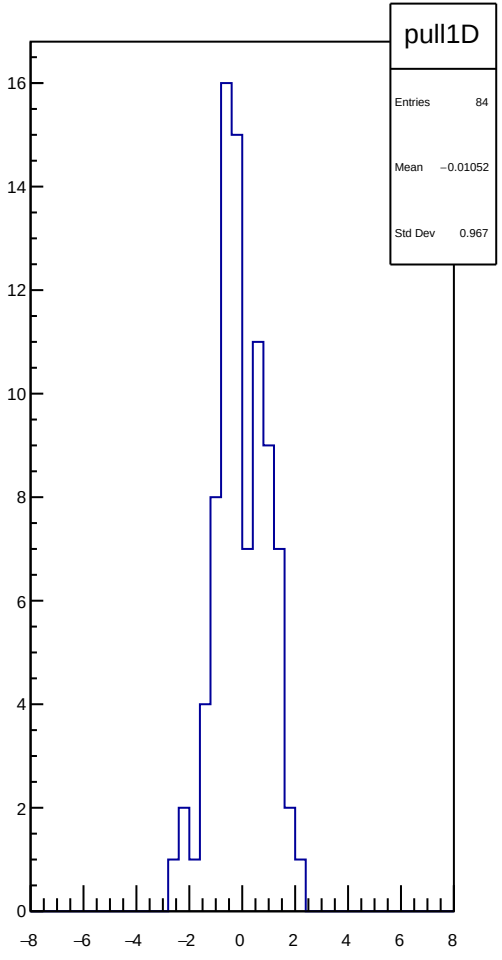

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 58.81 / 83
p0 4.776e−15 ± 2.244e−14
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 84
Mean 59.16
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean −0.09161
Std Dev 0.8317
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

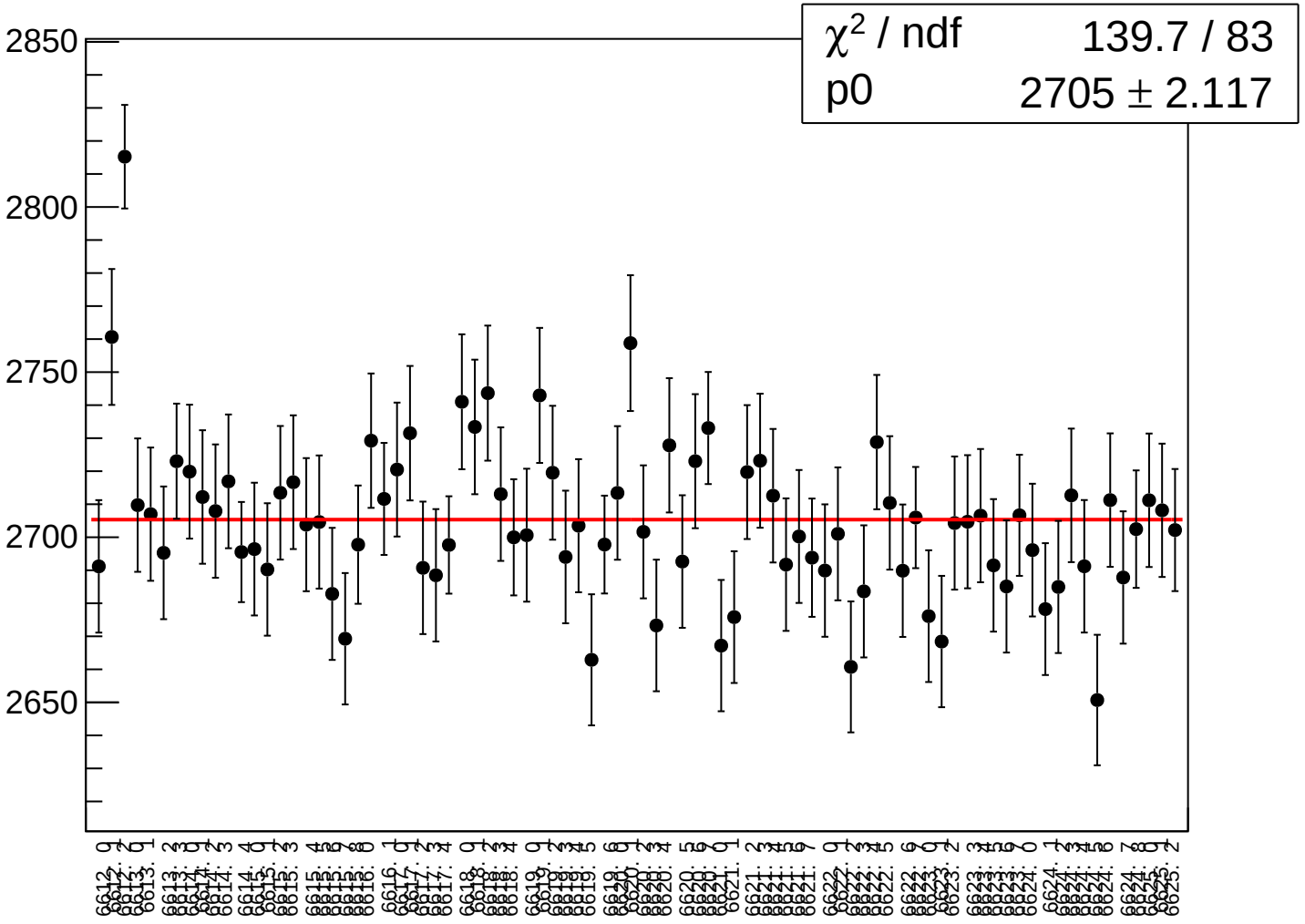

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.009e+06 / 83
p0 1.253e−11 ± 1.587e−14
3
2.5
2
1.5
1
0.5
0

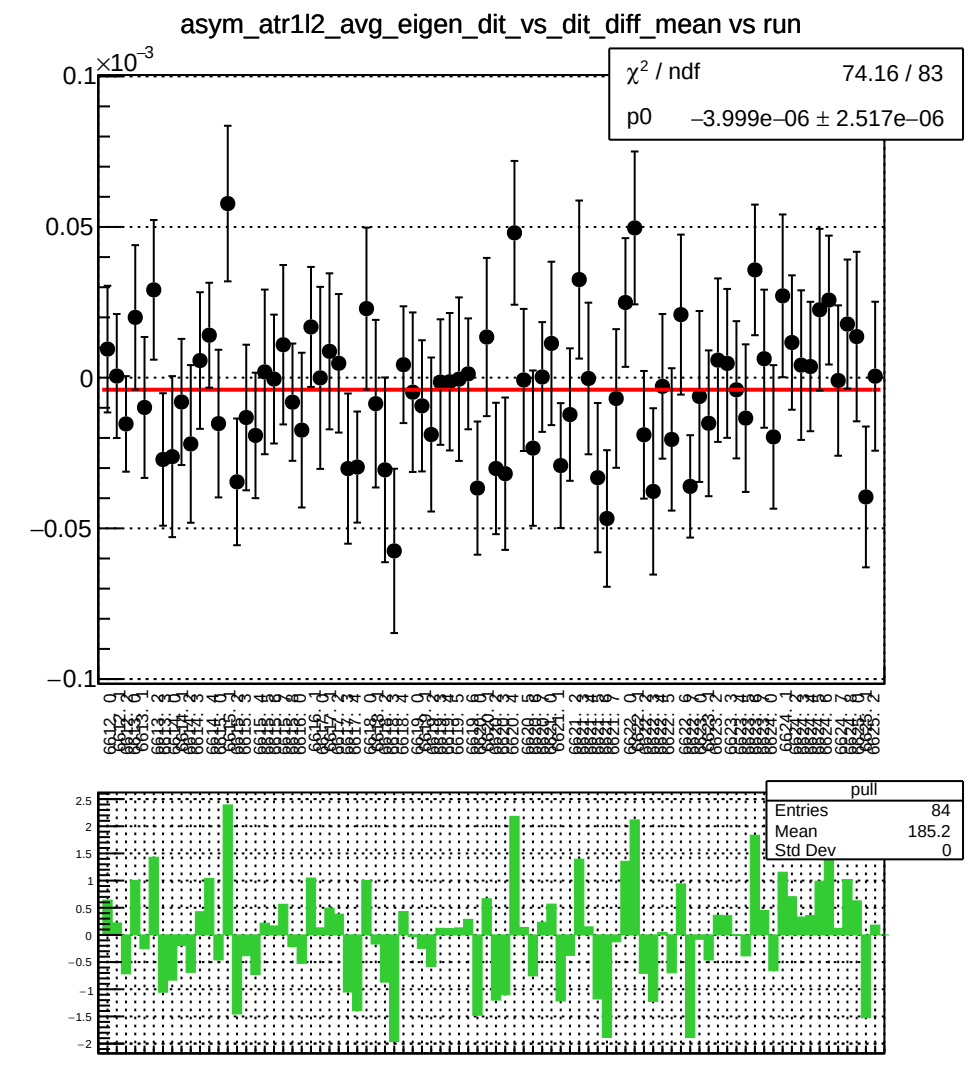

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.56 / 83
p0 −2.101 ± 2.994
pull
Entries 84
Mean 429
Std Dev 0
pull1D
Entries 84
Mean −0.01052
Std Dev 0.967

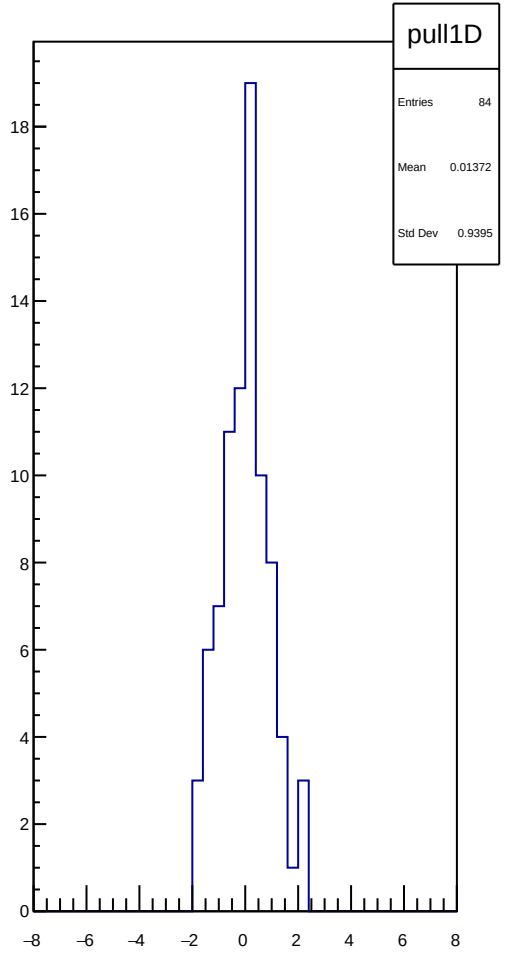

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 139.7 / 83
p0 2705 ± 2.117
2850
2800
2750
2700
2650

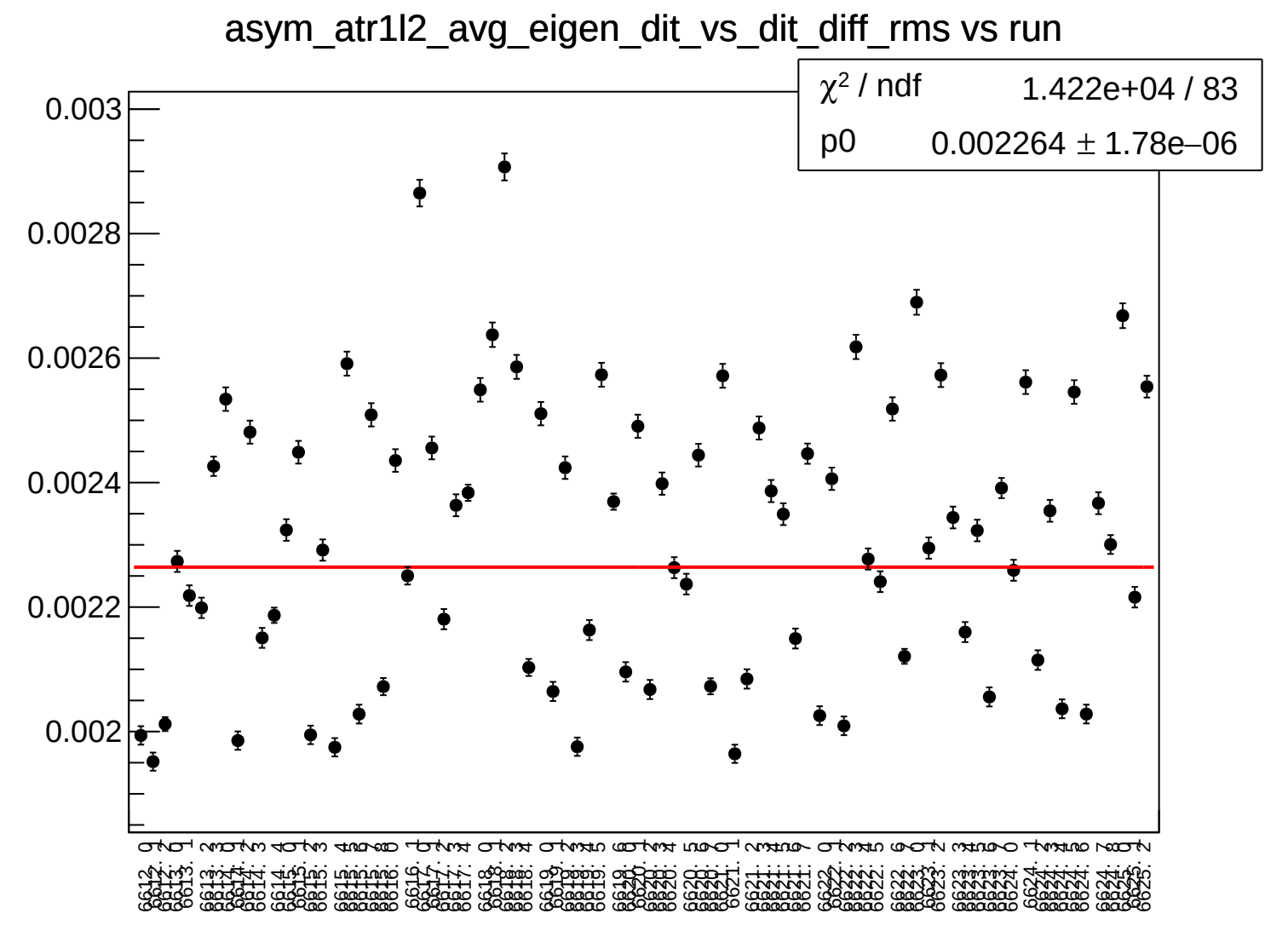

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.56 / 83
p0 −2.101 ± 2.994
100
50
0
−50
−100
pull
Entries 84
Mean 429
Std Dev 0
2
1
0
−1
−2

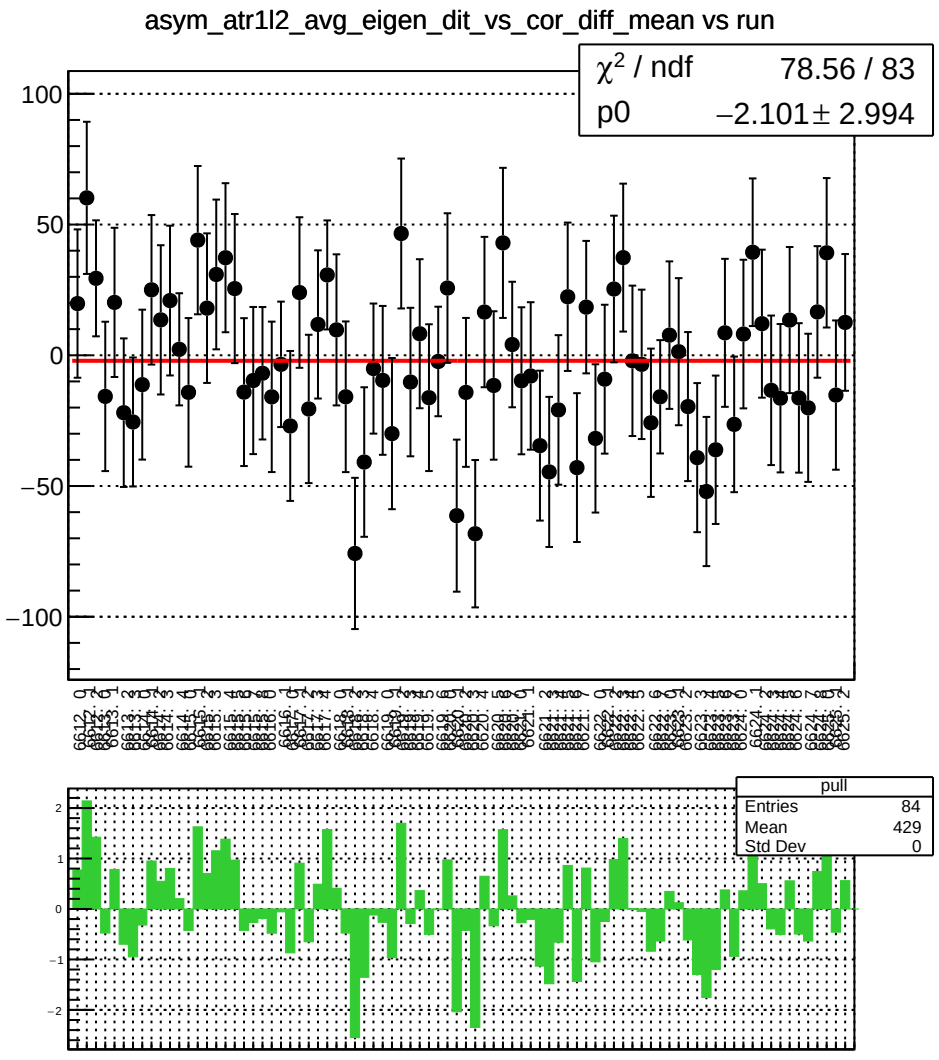

pull1D
Entries 84
Mean −0.01052
Std Dev 0.967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

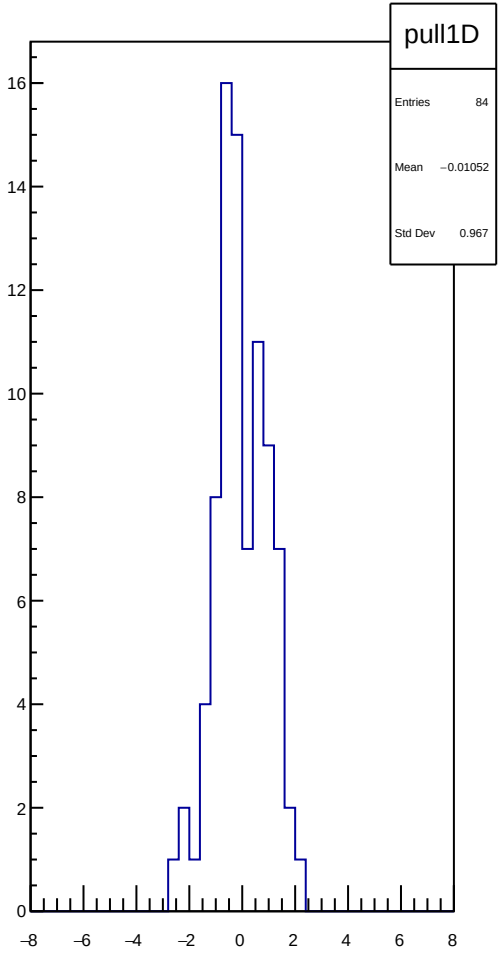

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 139.7 / 83
p0 2705 ± 2.117
2850
2800
2750
2700
2650

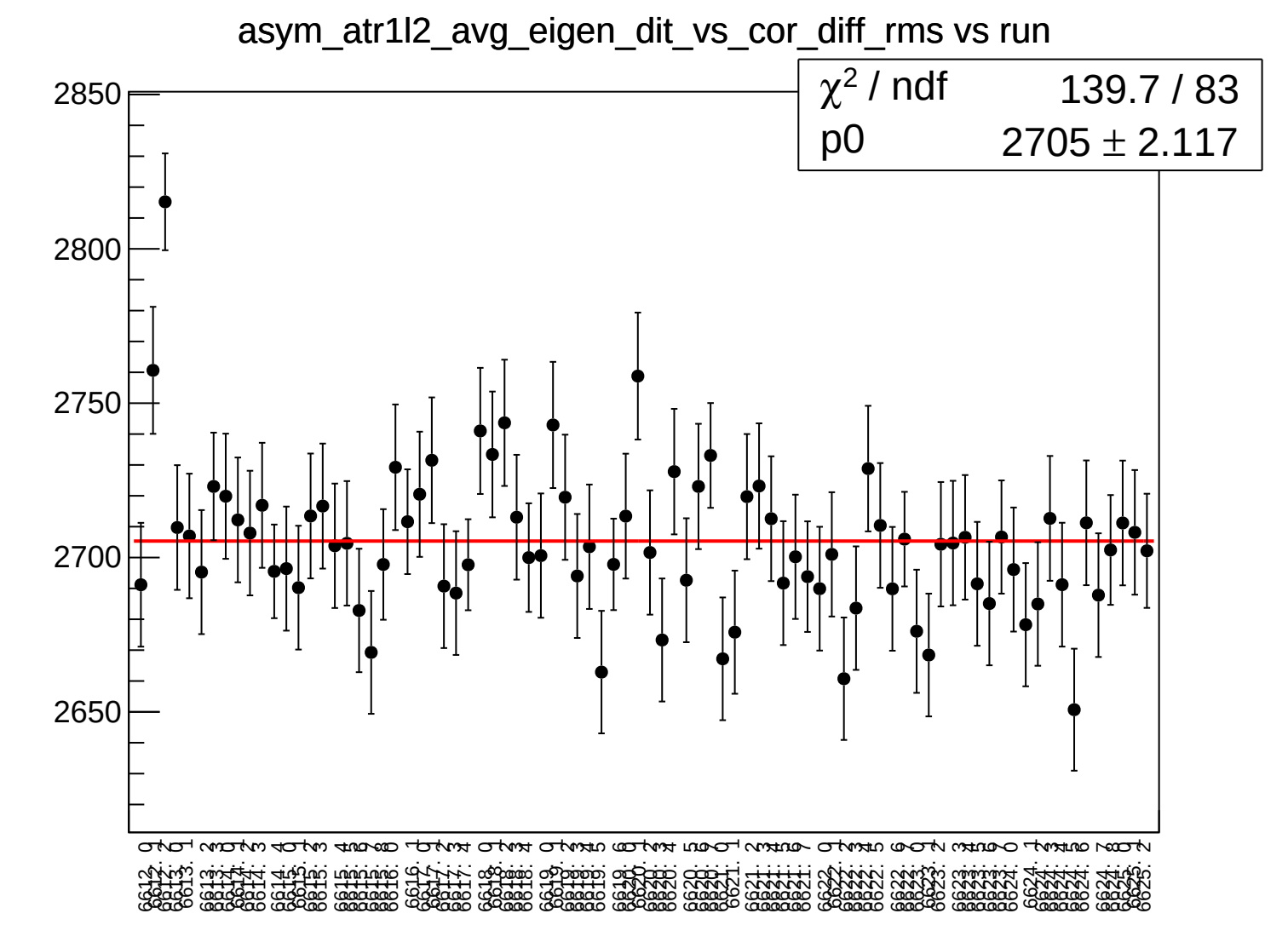

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.16 / 83
p0 −3.999e−06 ± 2.517e−06
pull
Entries 84
Mean 185.2
Std Dev 0

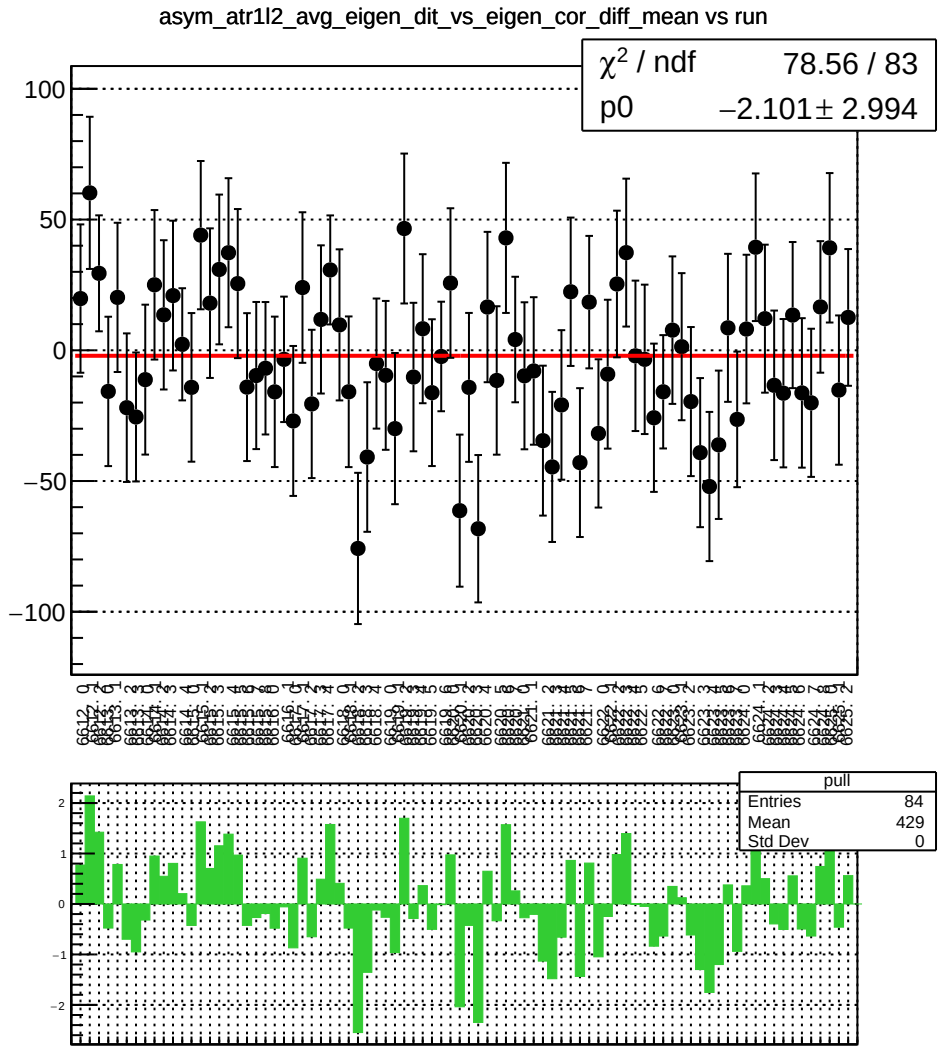

pull1D
Entries 84
Mean 0.01372
Std Dev 0.9395

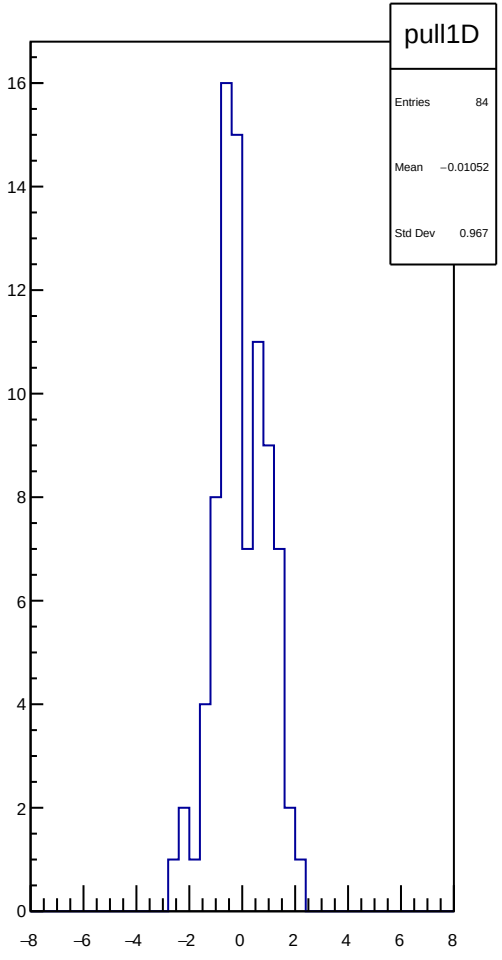

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.422e+04 / 83
p0 0.002264 ± 1.78e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

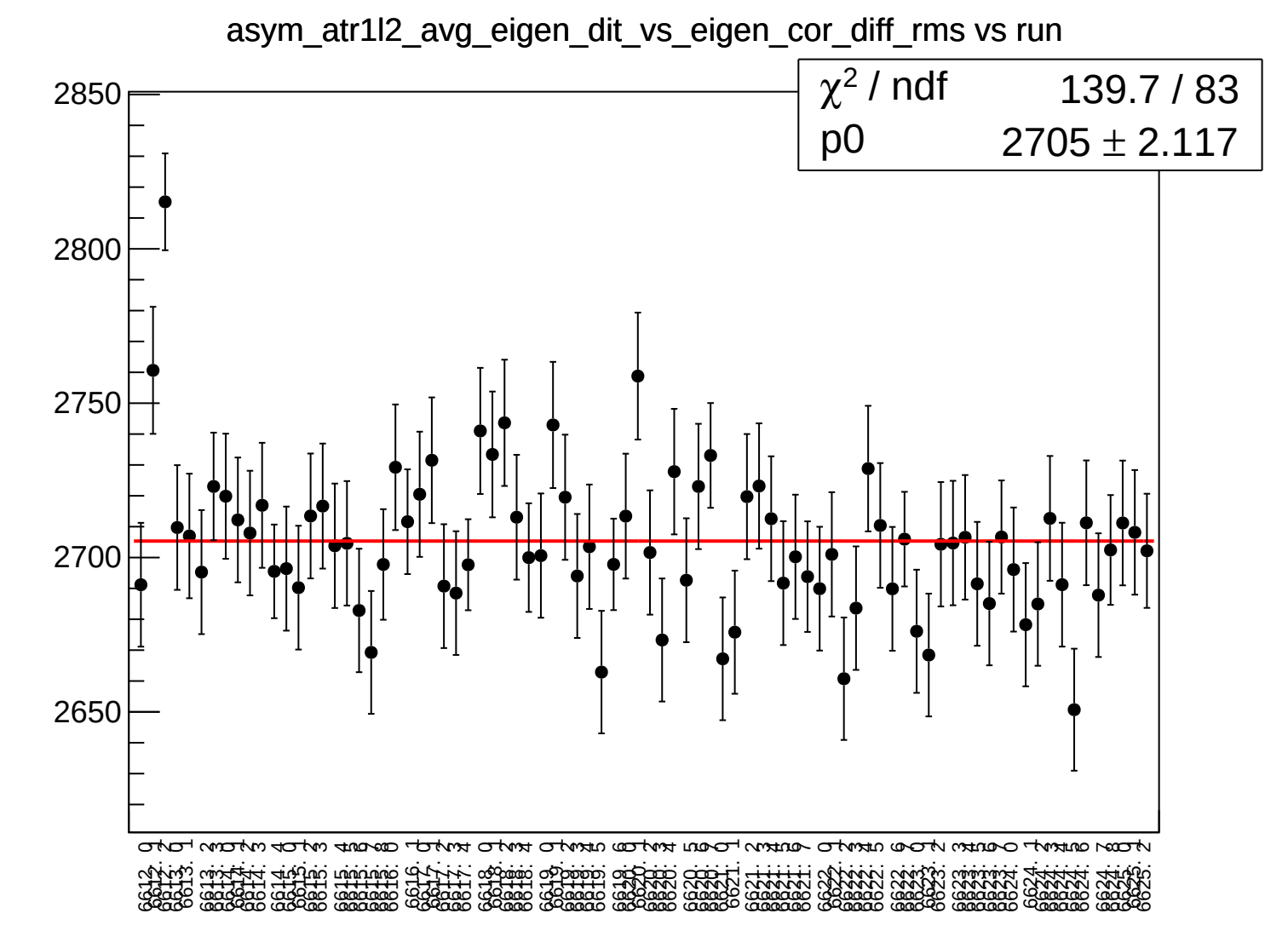

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.56 / 83
p0 −2.101 ± 2.994
100
50
0
−50
−100
pull
Entries 84
Mean 429
Std Dev 0
2
1
0
−1
−2

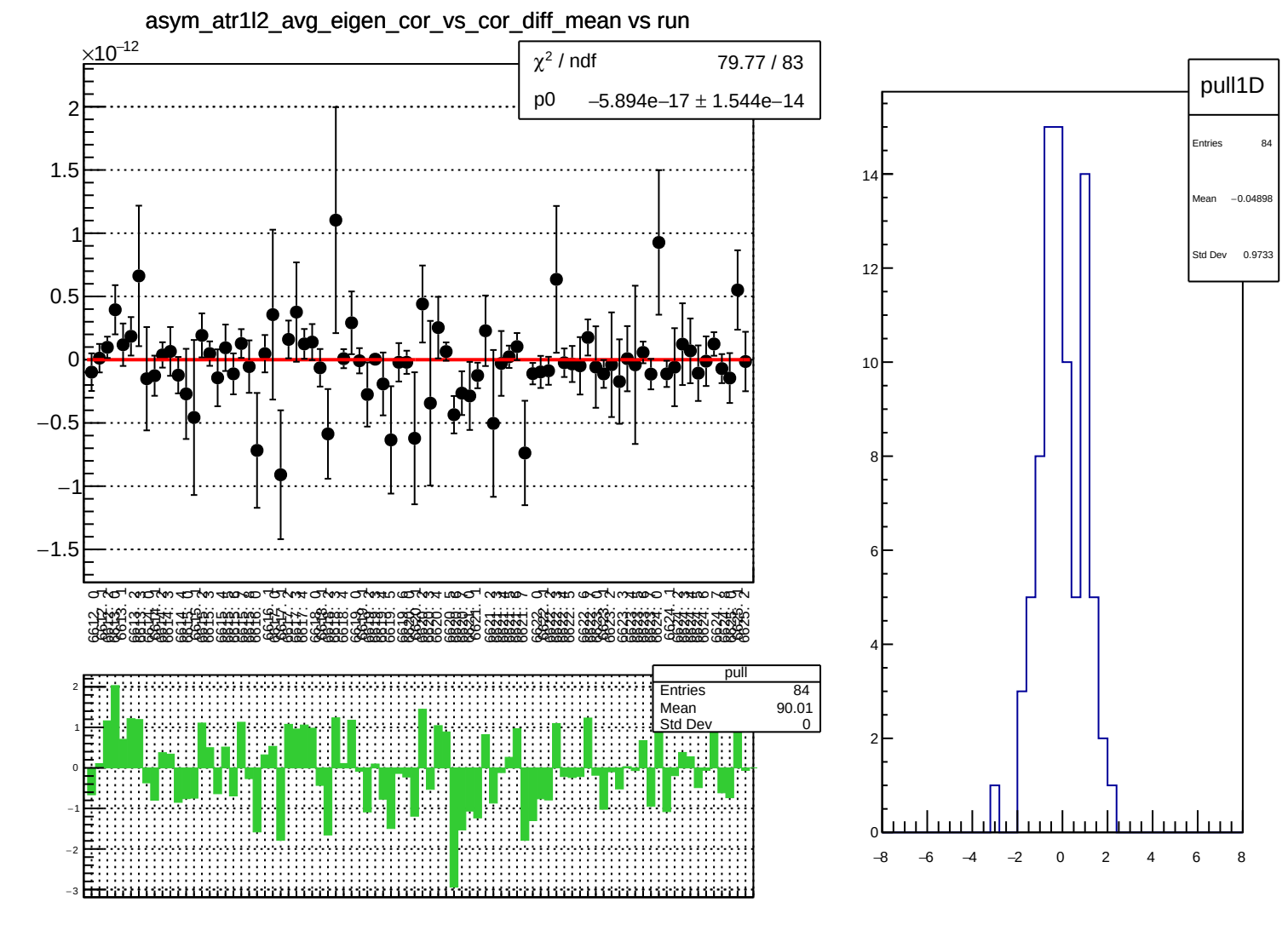

pull1D
Entries 84
Mean −0.01052
Std Dev 0.967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

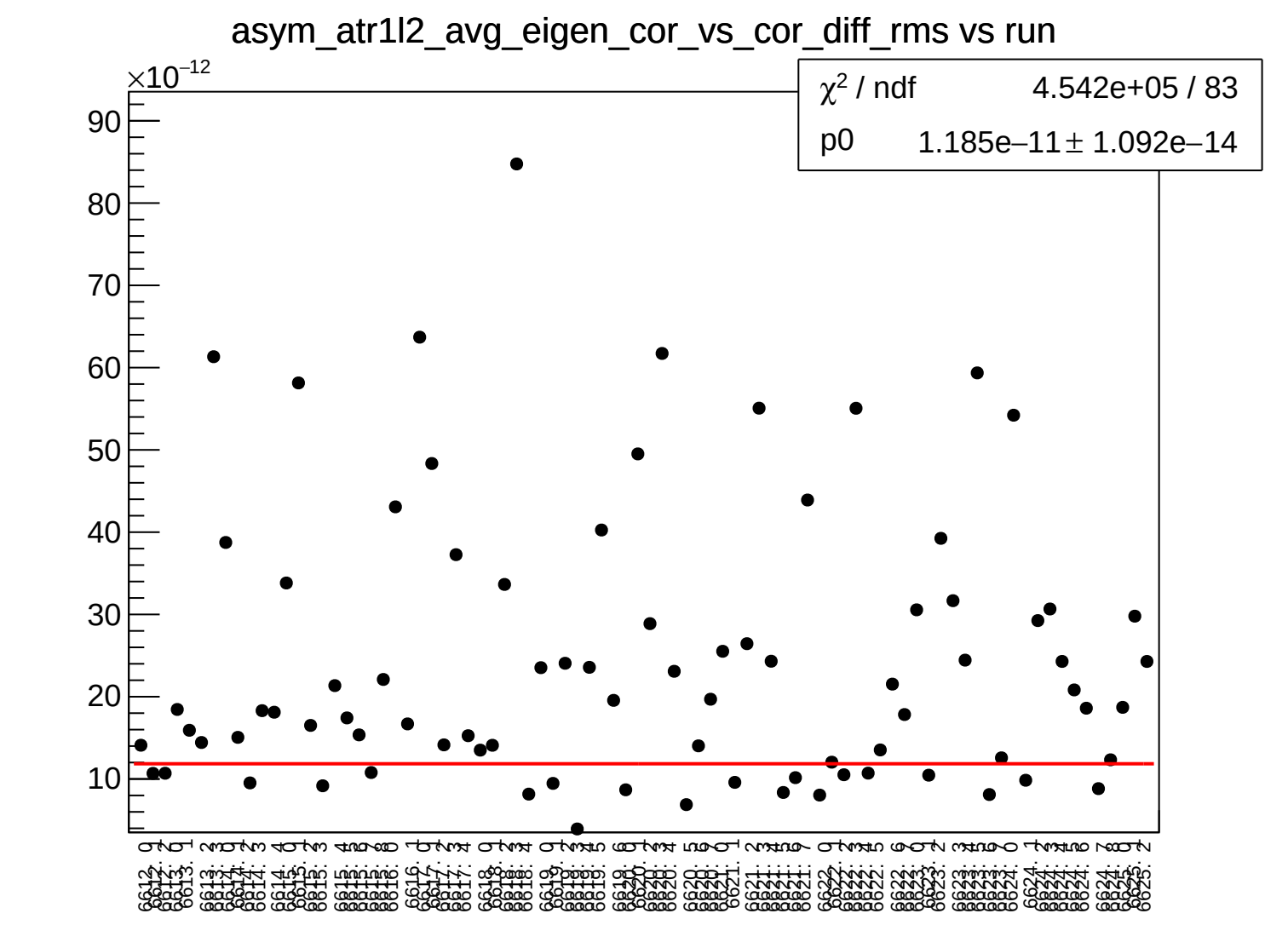

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 139.7 / 83
p0 2705 ± 2.117
2850
2800
2750
2700
2650

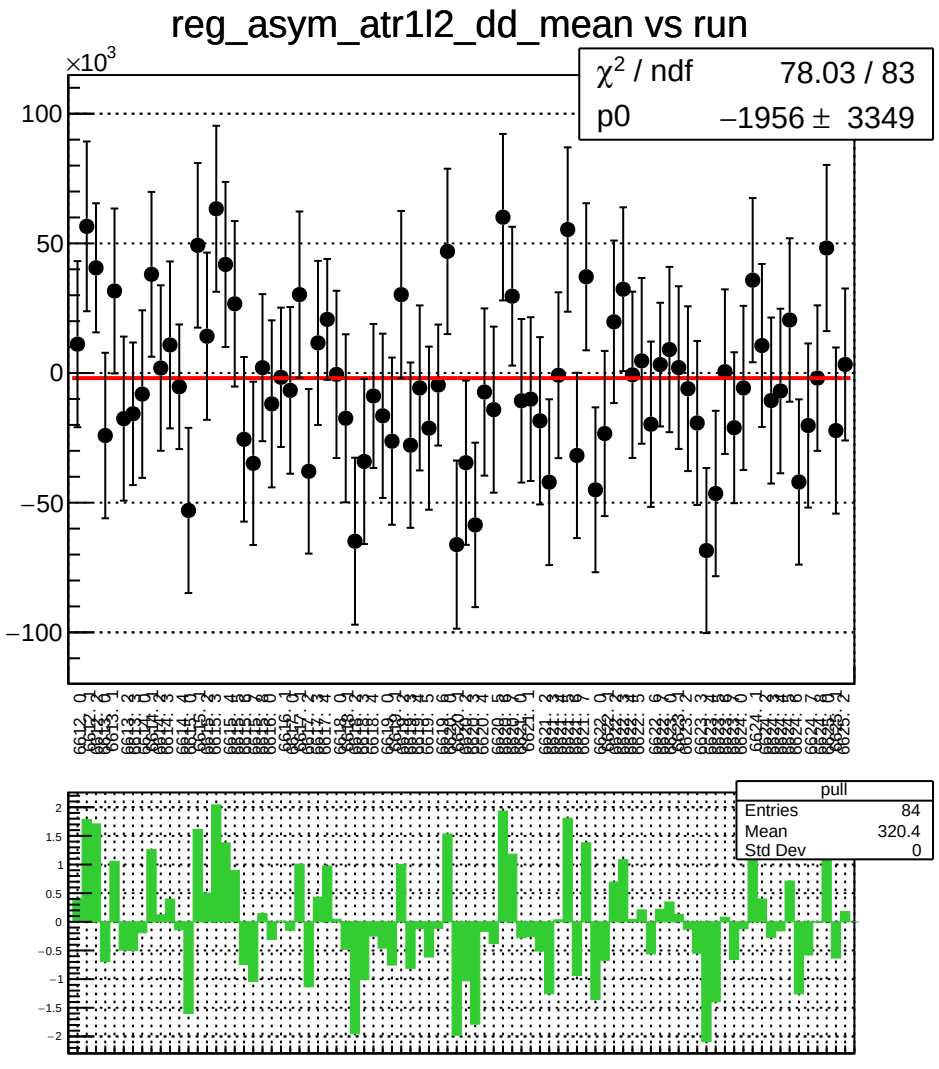

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.56 / 83
p0 −2.101 ± 2.994
100
50
0
−50
−100
pull
Entries 84
Mean 429
Std Dev 0
2
1
0
−1
−2

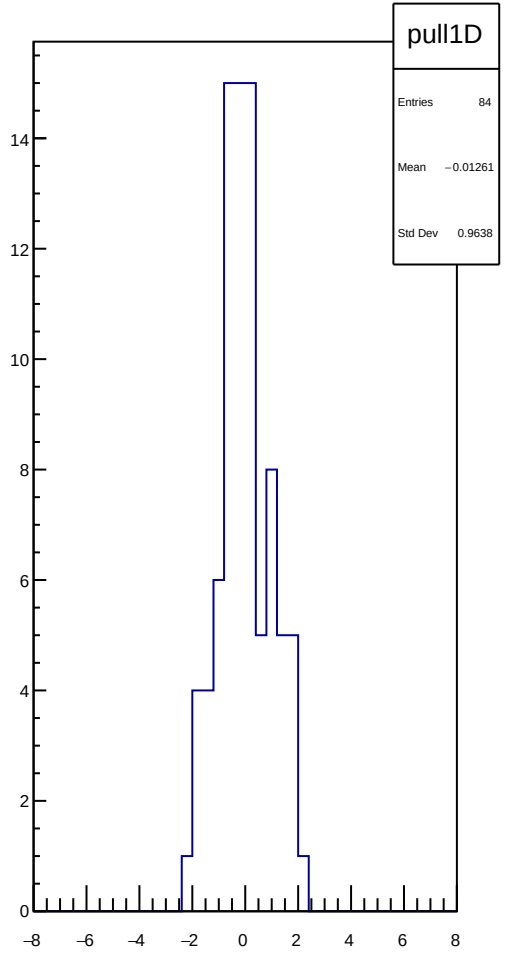

pull1D
Entries 84
Mean −0.01052
Std Dev 0.967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

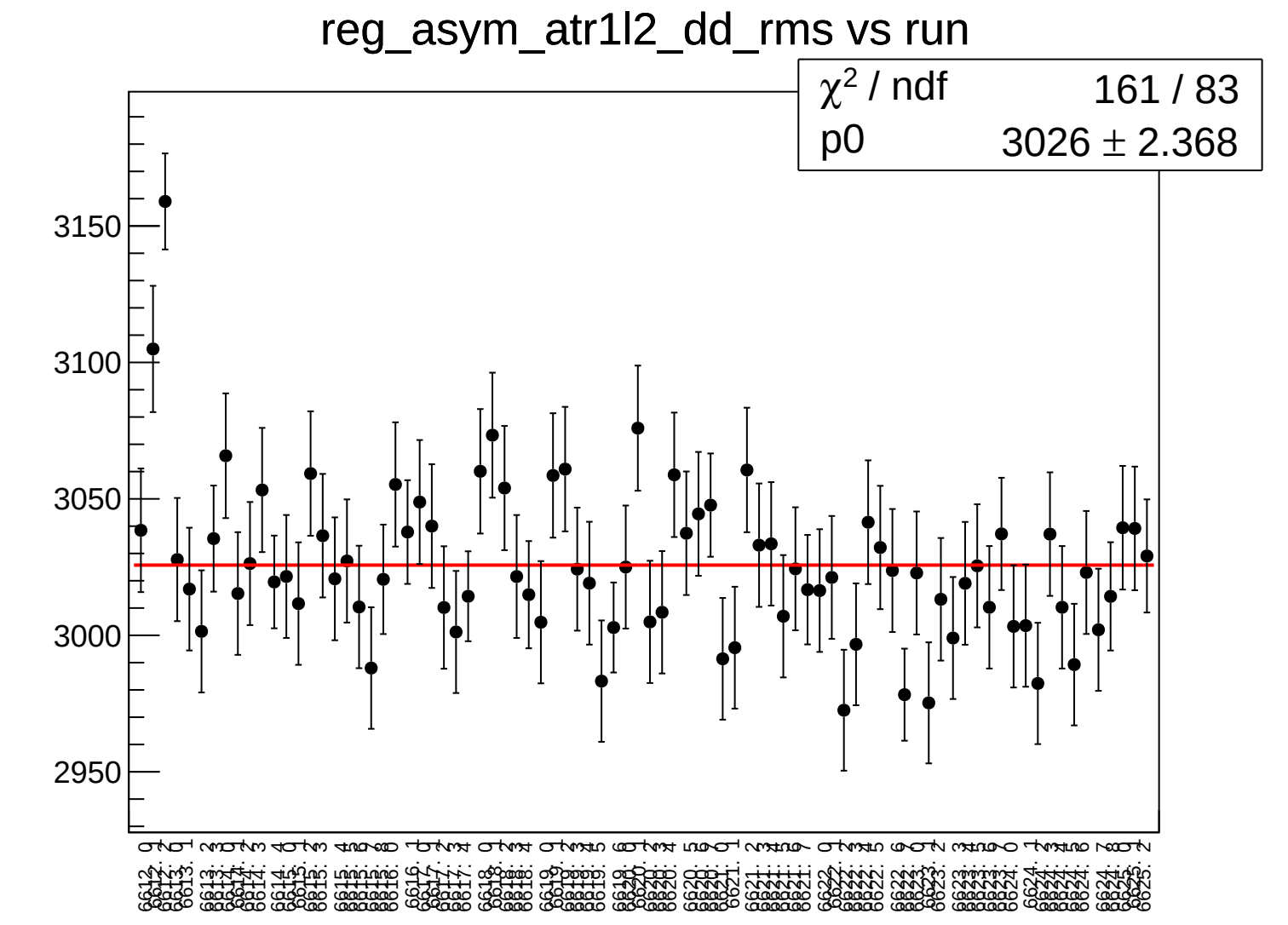

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 139.7 / 83
p0 2705 ± 2.117
2850
2800
2750
2700
2650

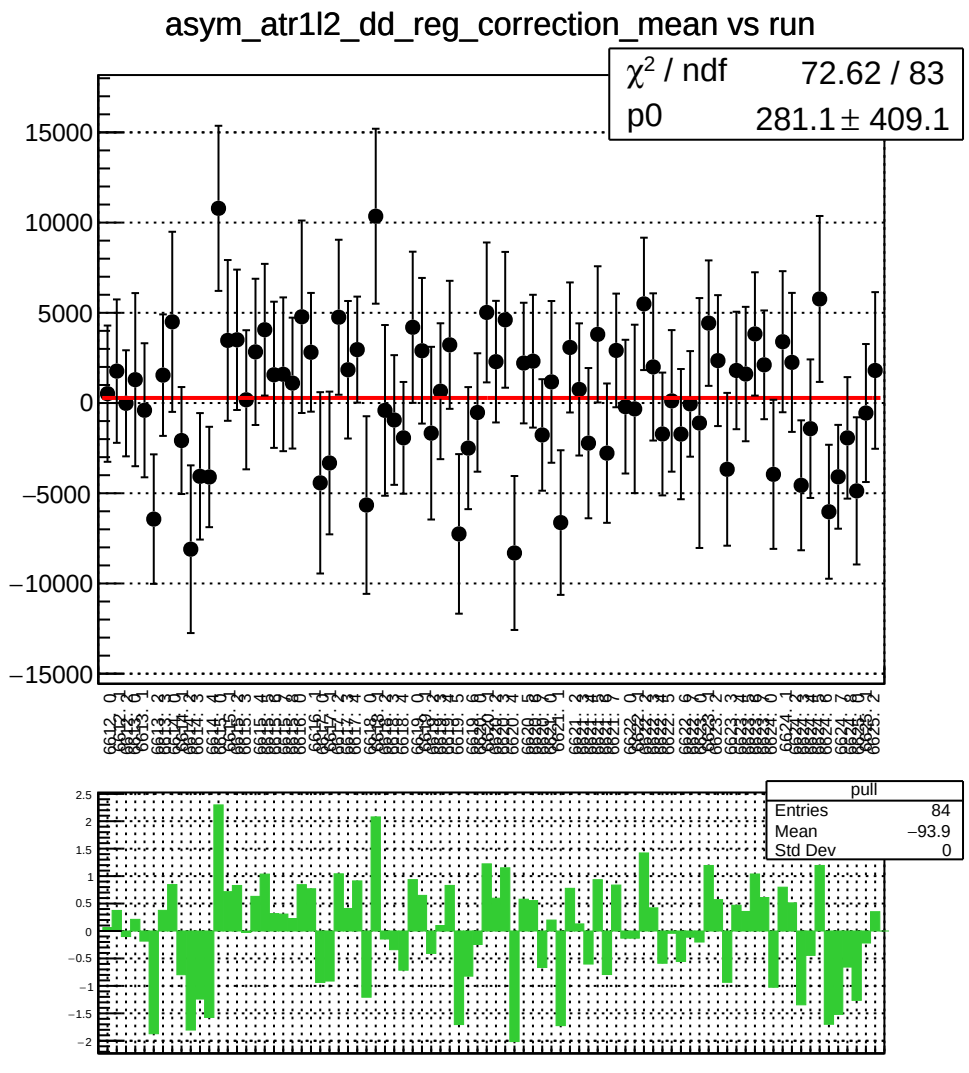

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.77 / 83
p0 −5.894e−17 ± 1.544e−14
pull
Entries 84
Mean 90.01
Std Dev 0
pull1D
Entries 84
Mean −0.04898
Std Dev 0.9733

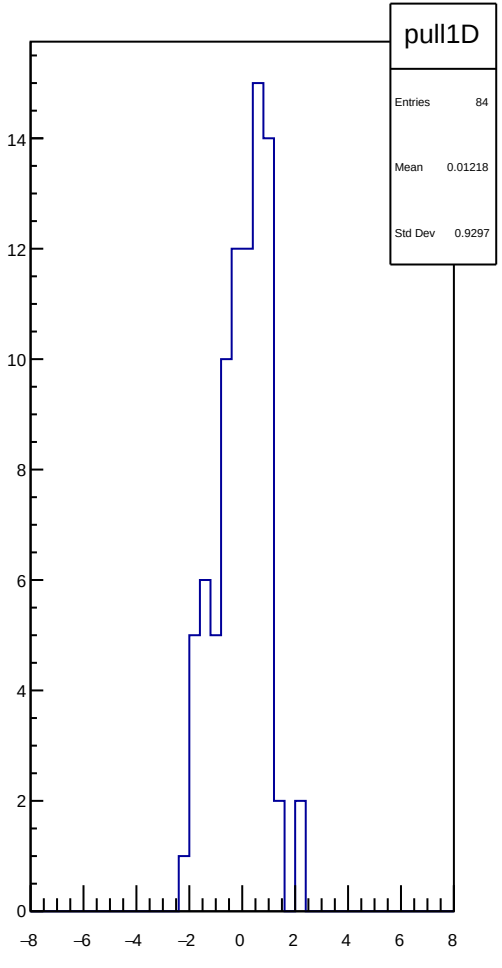

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.542e+05 / 83
p0 1.185e−11 ± 1.092e−14
90
80
70
60
50
40
30
20
10

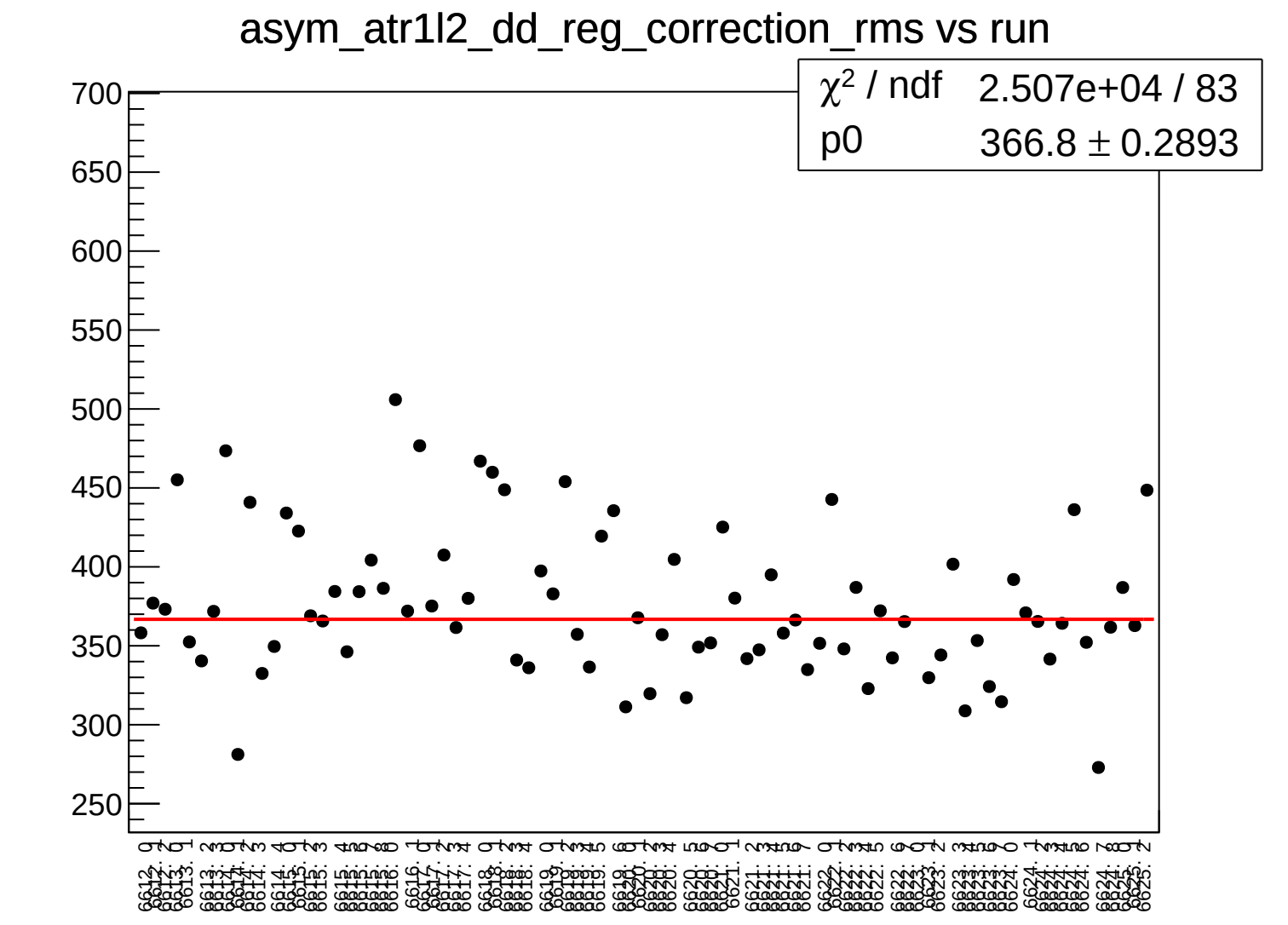

reg_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 78.03 / 83
p0 −1956 ± 3349
100
50
0
−50
−100
pull
Entries 84
Mean 320.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

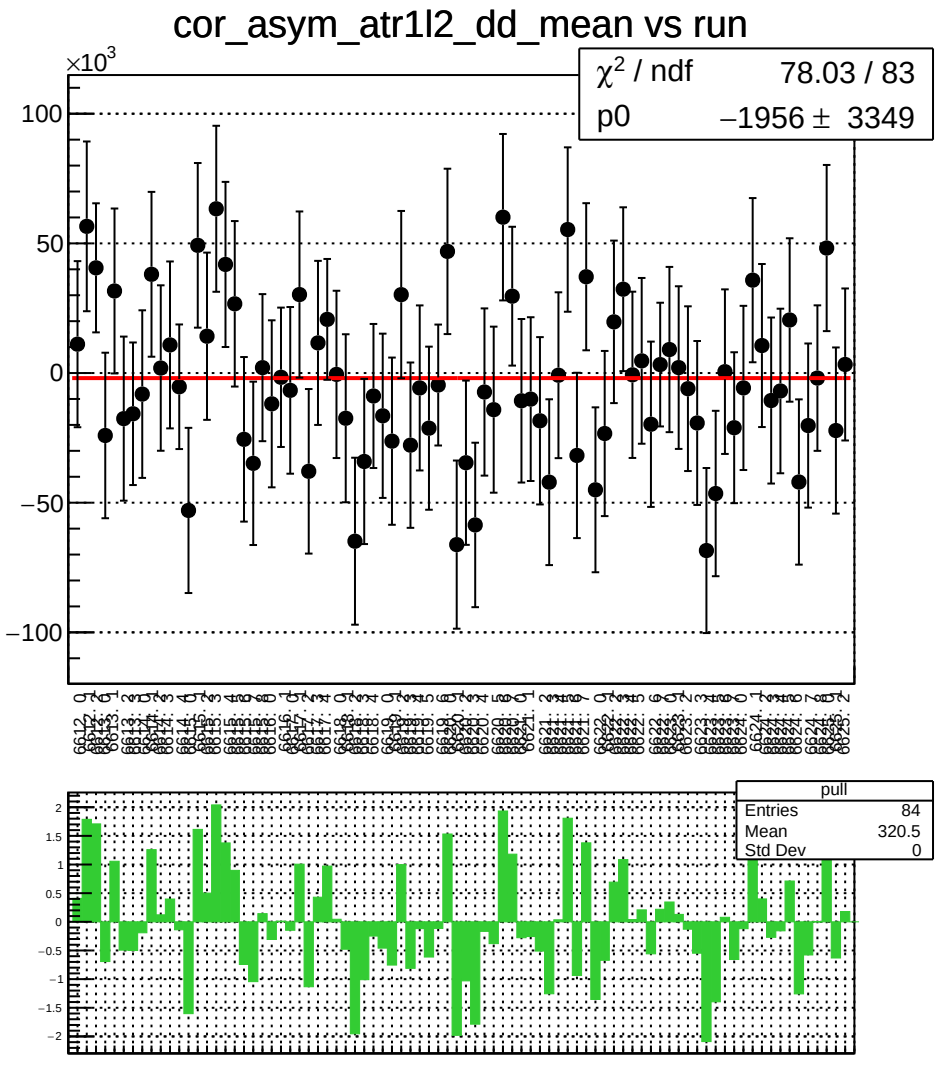

pull1D
Entries 84
Mean −0.01261
Std Dev 0.9638
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

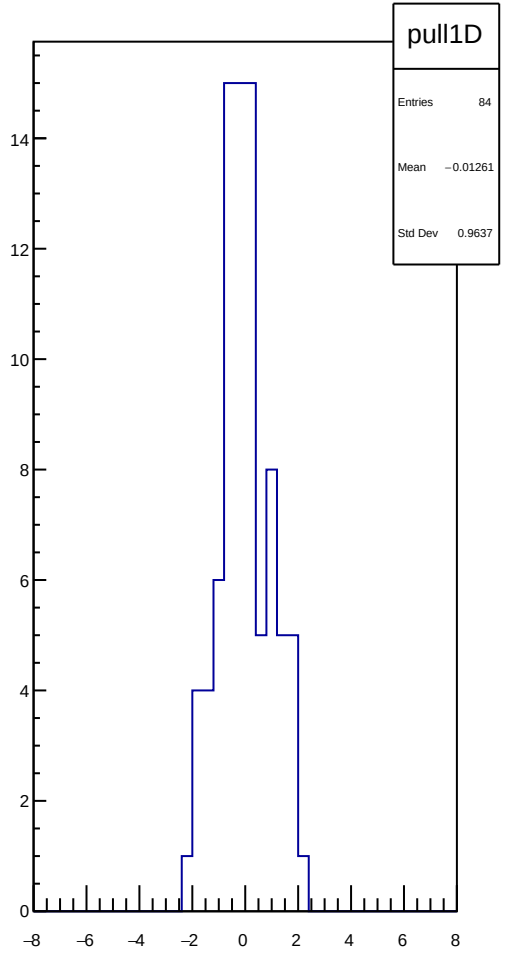

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 161 / 83
p0 3026 ± 2.368
3150
3100
3050
3000
2950

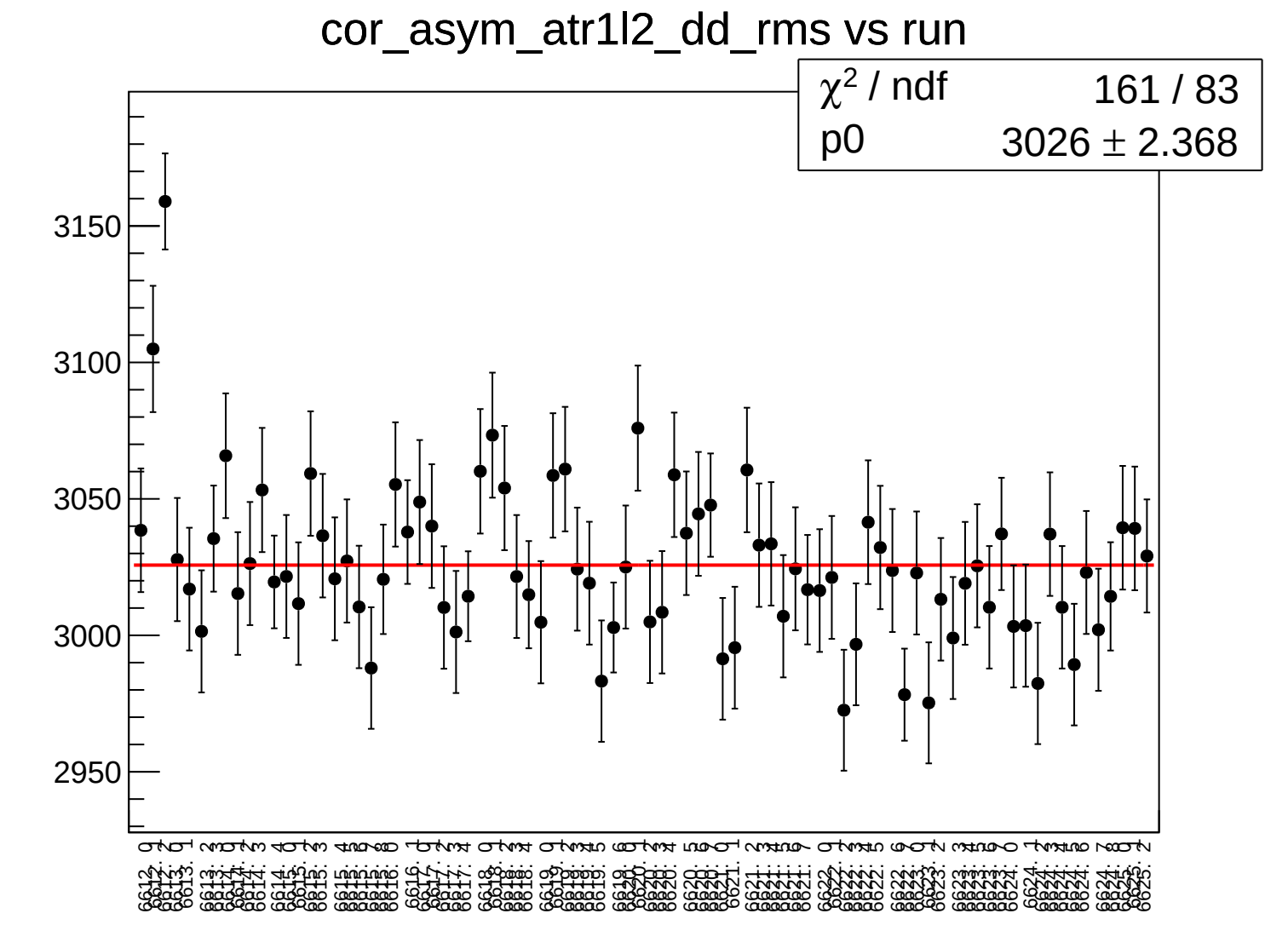

asym_atr1l2_dd_reg_correction_mean vs run
χ² / ndf 72.62 / 83
p0 281.1 ± 409.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −93.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

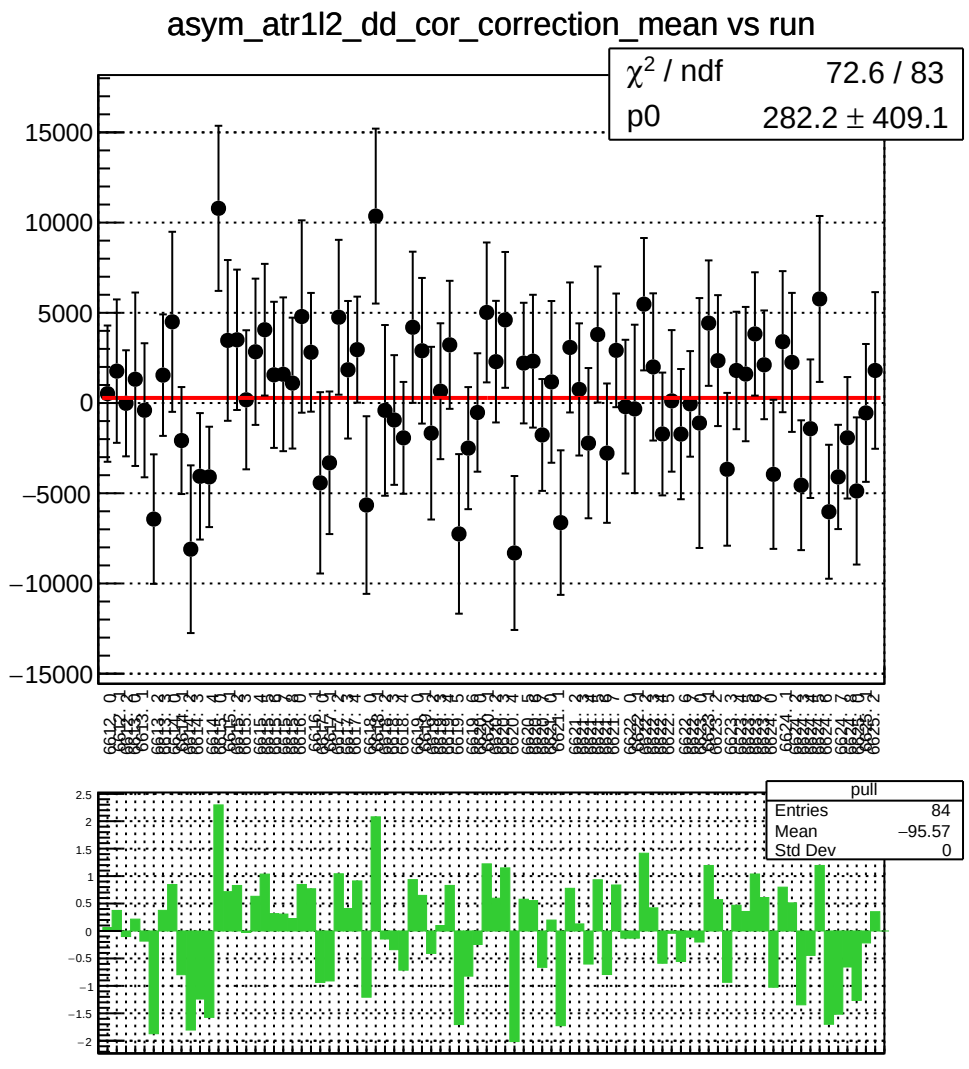

pull1D
Entries 84
Mean 0.01218
Std Dev 0.9297
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

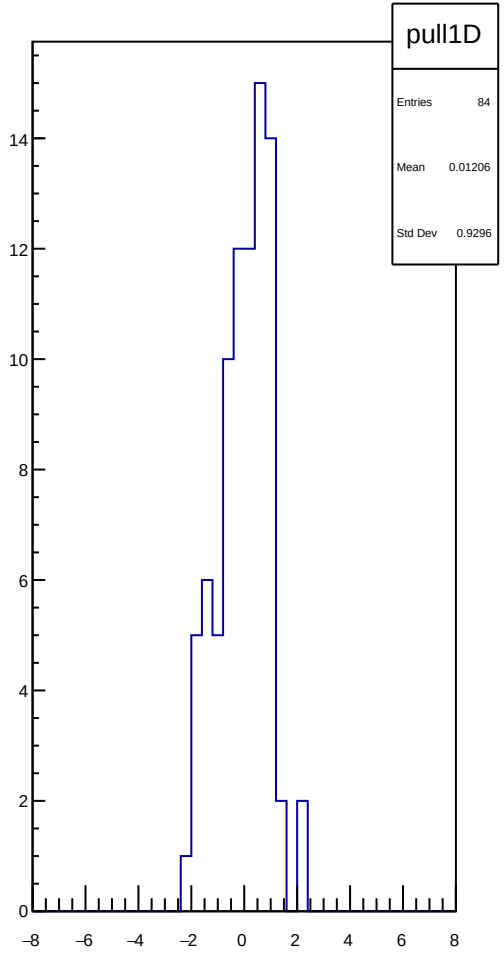

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 2.507e+04 / 83
p0 366.8 ± 0.2893
700
650
600
550
500
450
400
350
300
250

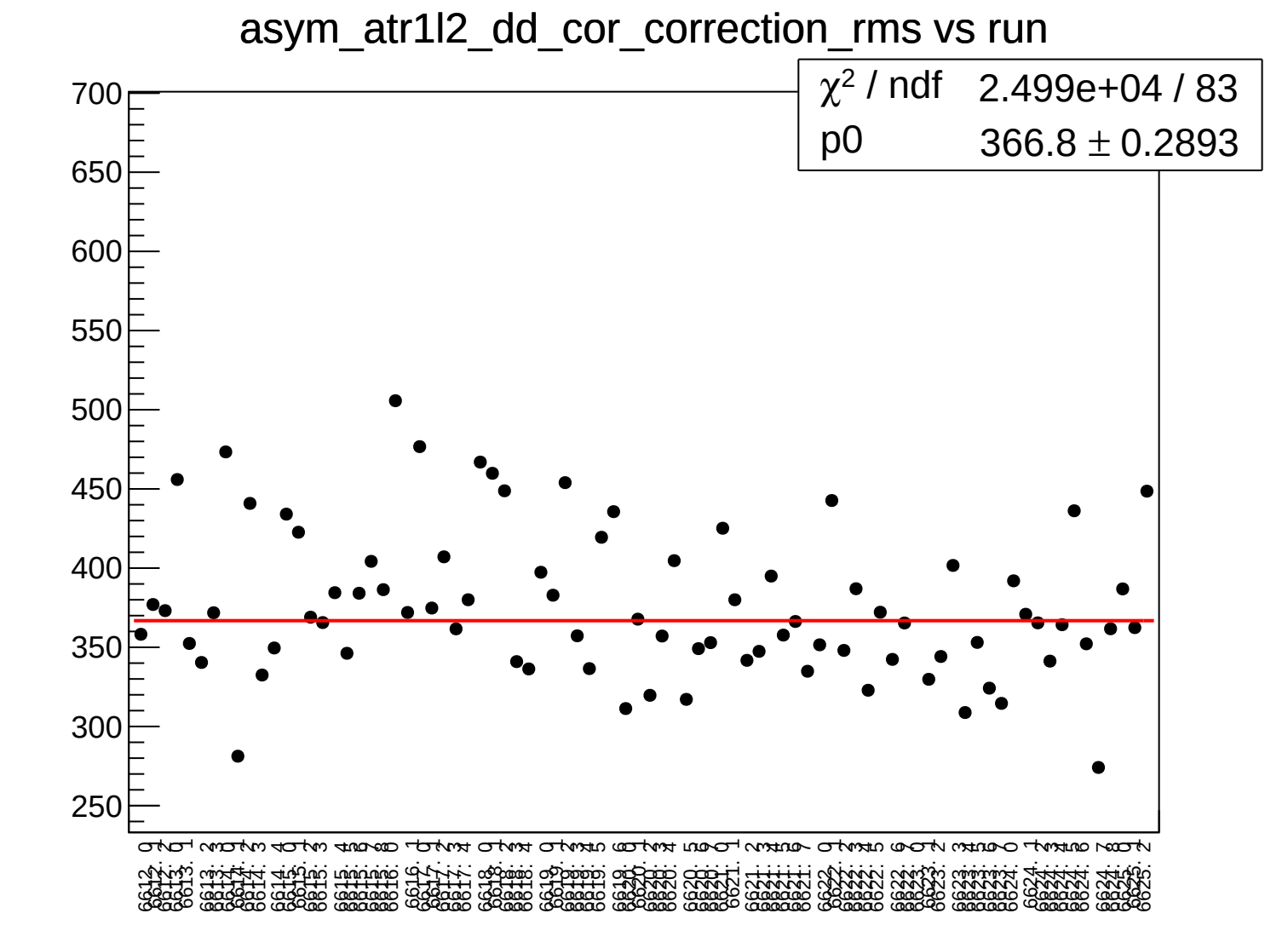

cor_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 78.03 / 83
p0 −1956 ± 3349
100
50
0
−50
−100
pull
Entries 84
Mean 320.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

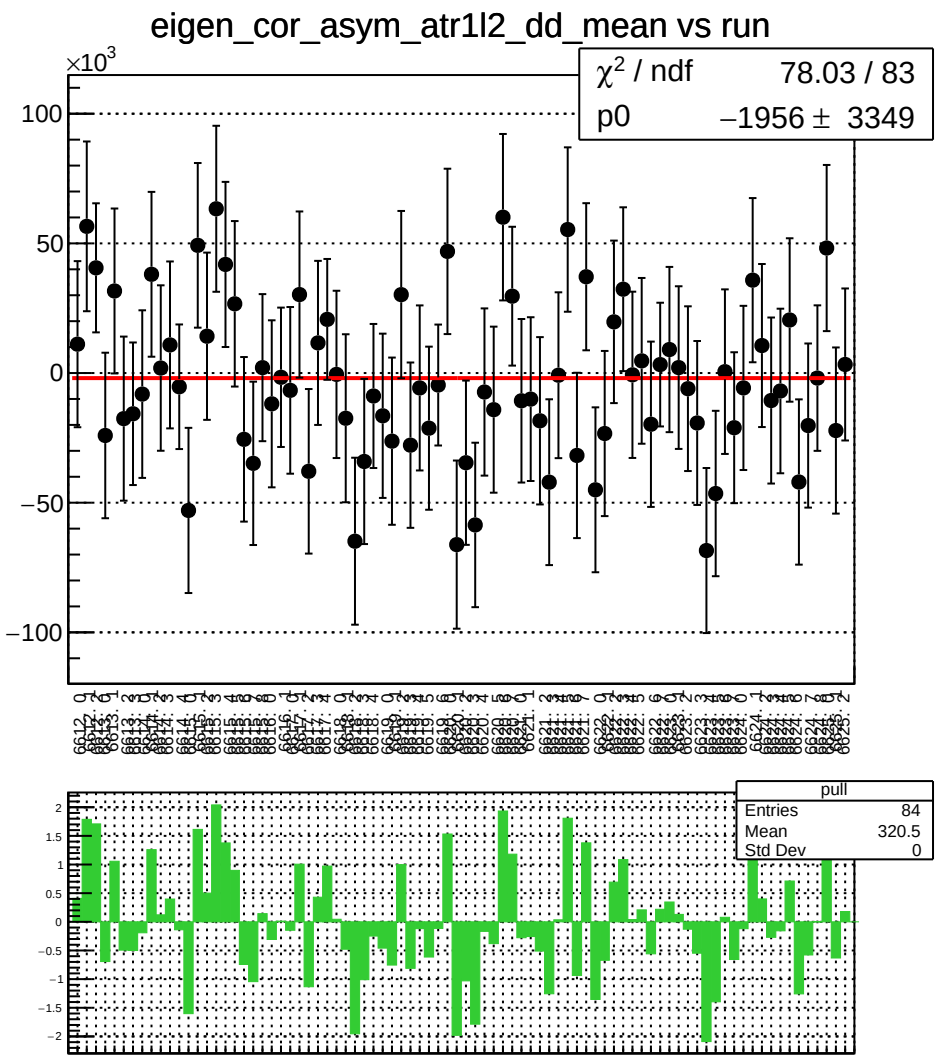

pull1D
Entries 84
Mean −0.01261
Std Dev 0.9637
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

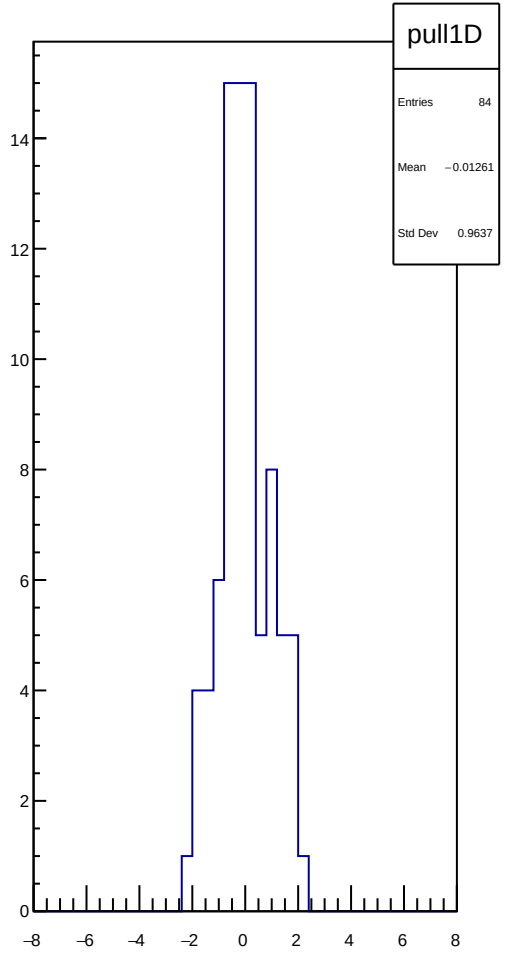

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 161 / 83
p0 3026 ± 2.368
3150
3100
3050
3000
2950

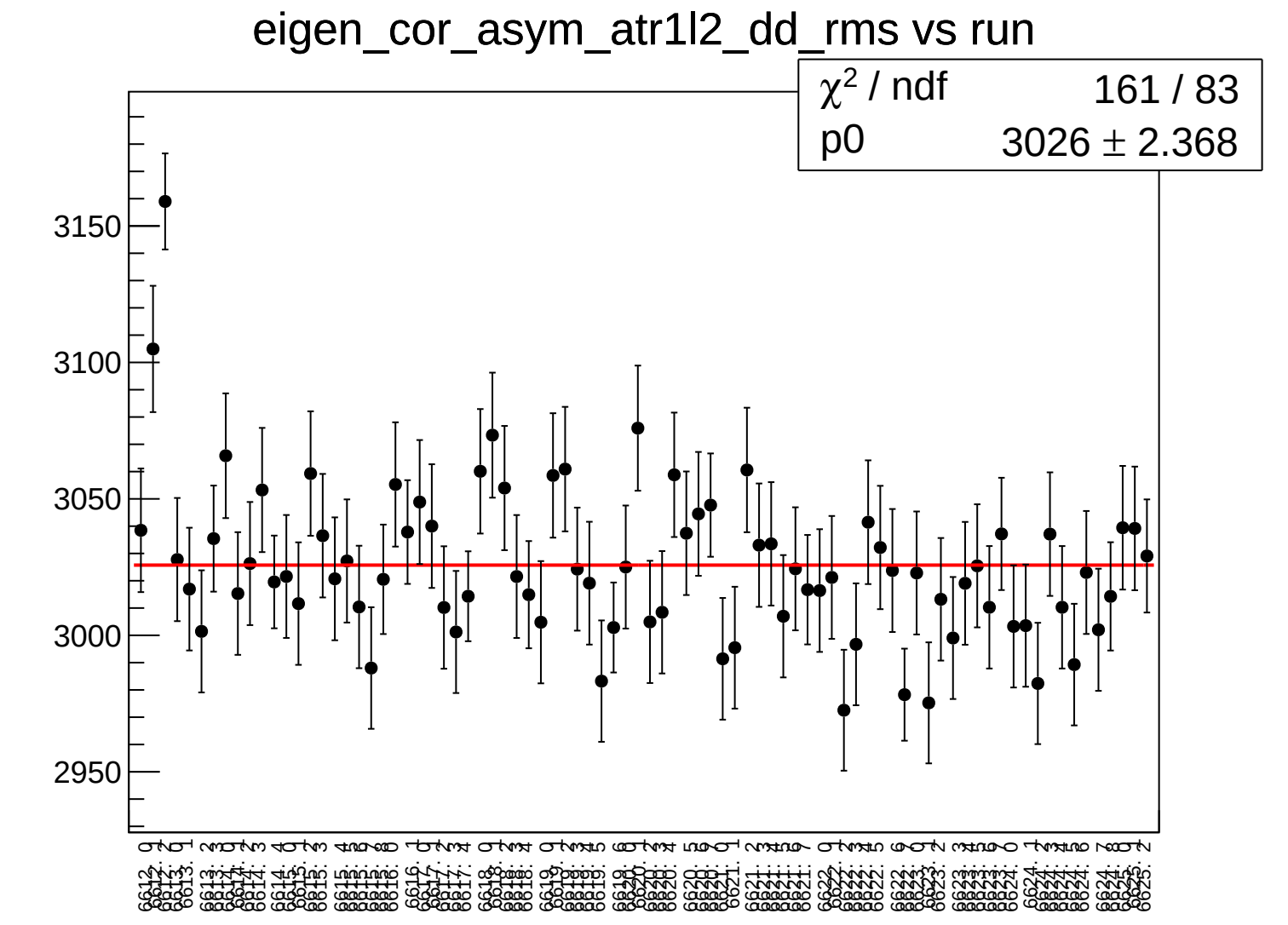

asym_atr1l2_dd_cor_correction_mean vs run
χ² / ndf 72.6 / 83
p0 282.2 ± 409.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −95.57
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

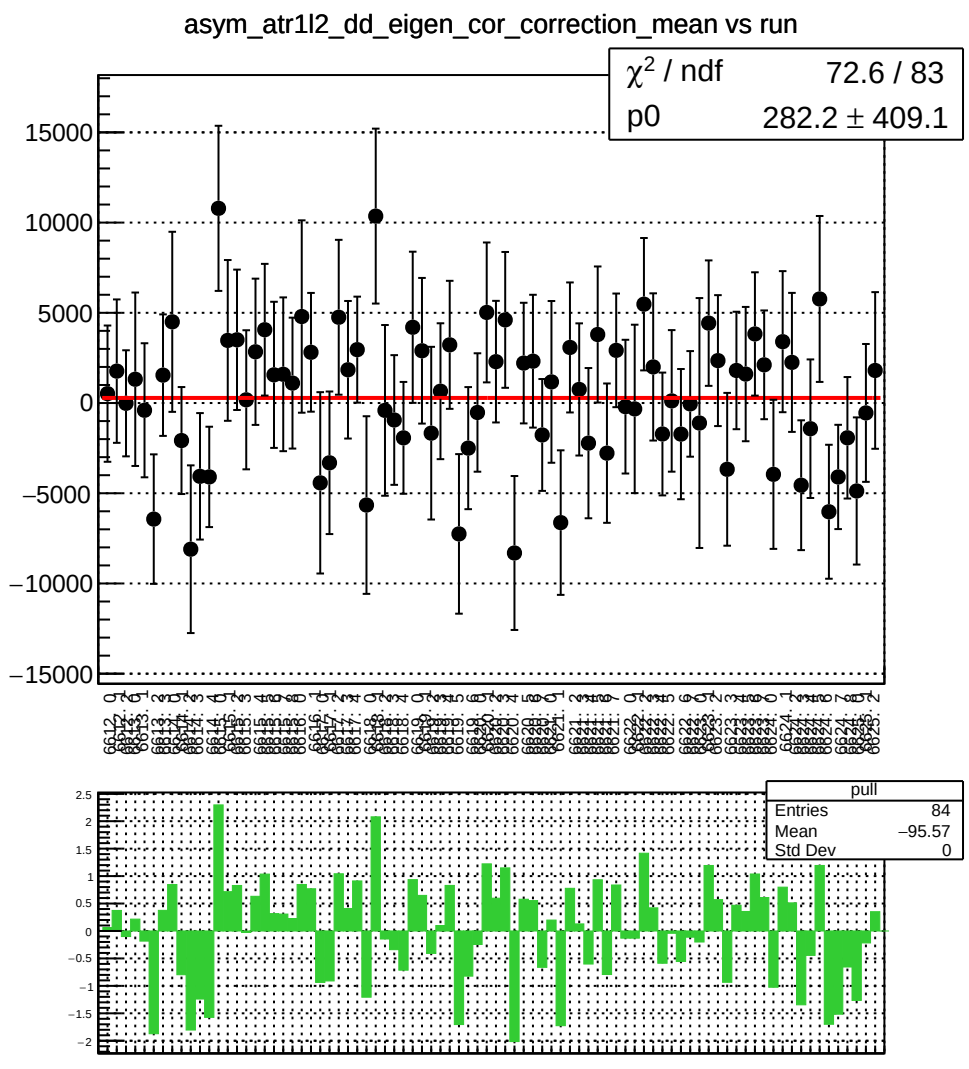

pull1D
Entries 84
Mean 0.01206
Std Dev 0.9296
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

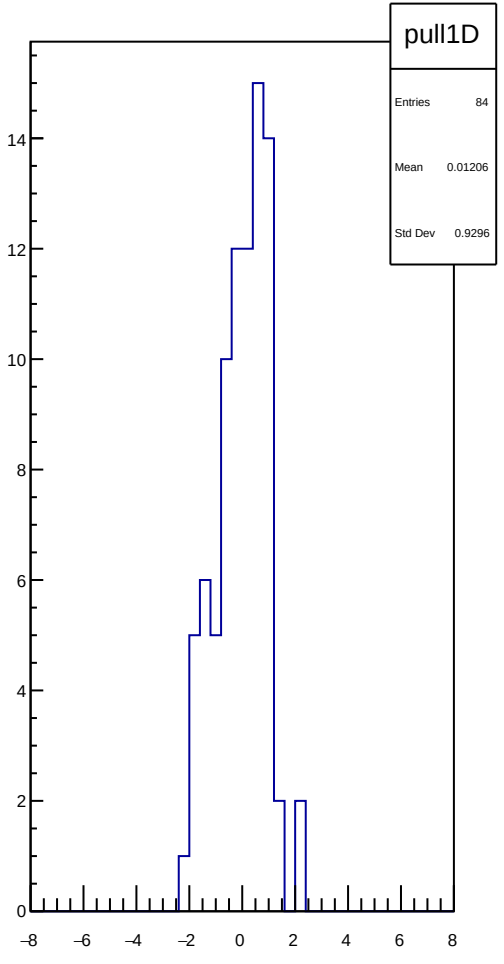

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 2.499e+04 / 83
p0 366.8 ± 0.2893
700
650
600
550
500
450
400
350
300
250

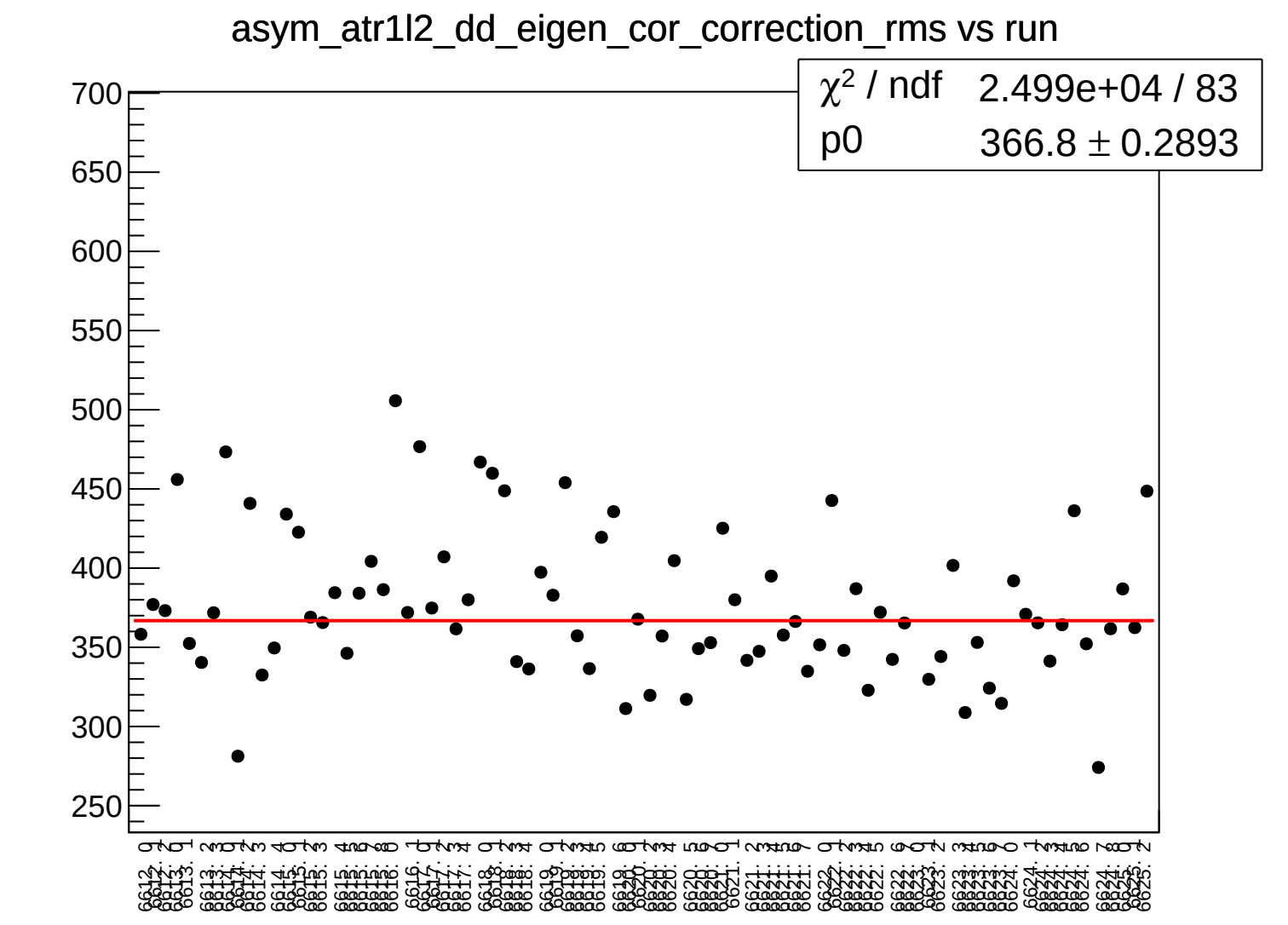

eigen_cor_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 78.03 / 83
p0 −1956 ± 3349
100
50
0
−50
−100
pull
Entries 84
Mean 320.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

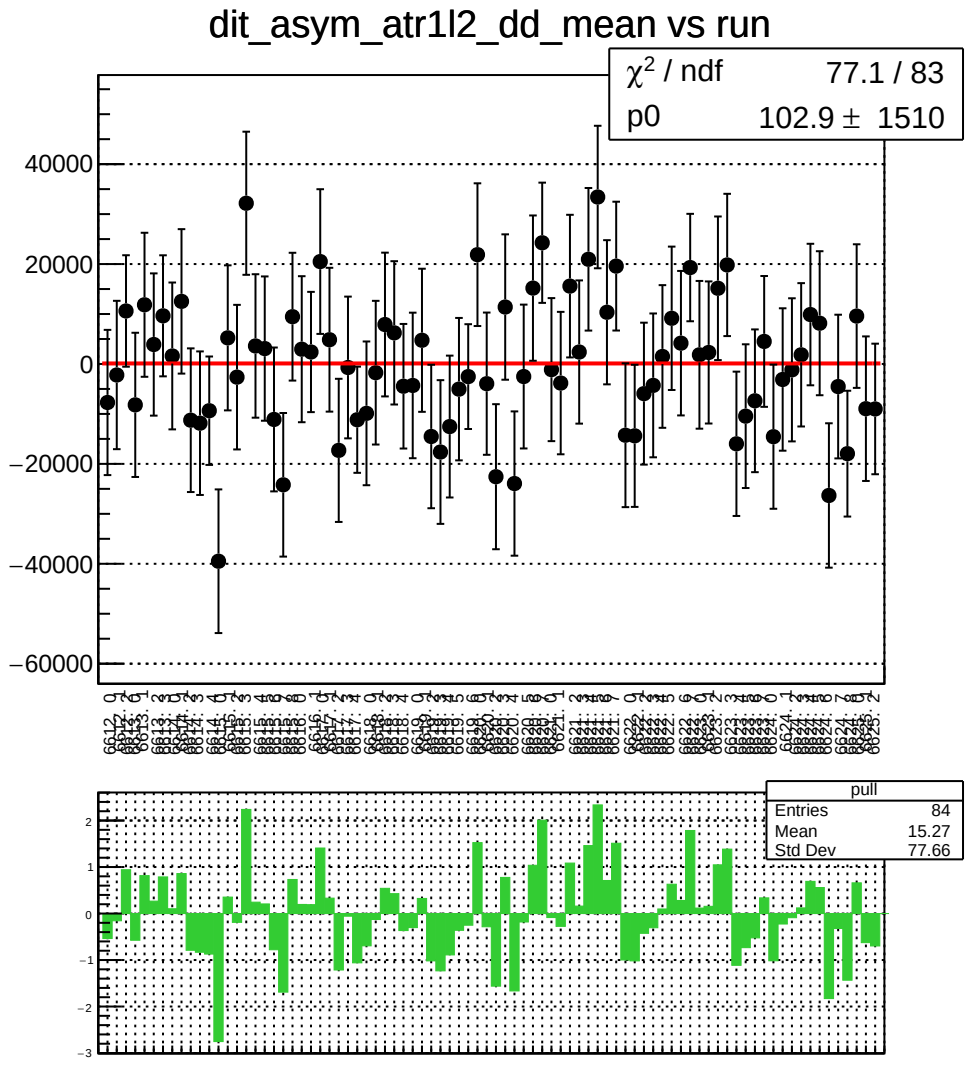

pull1D
Entries 84
Mean −0.01261
Std Dev 0.9637
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

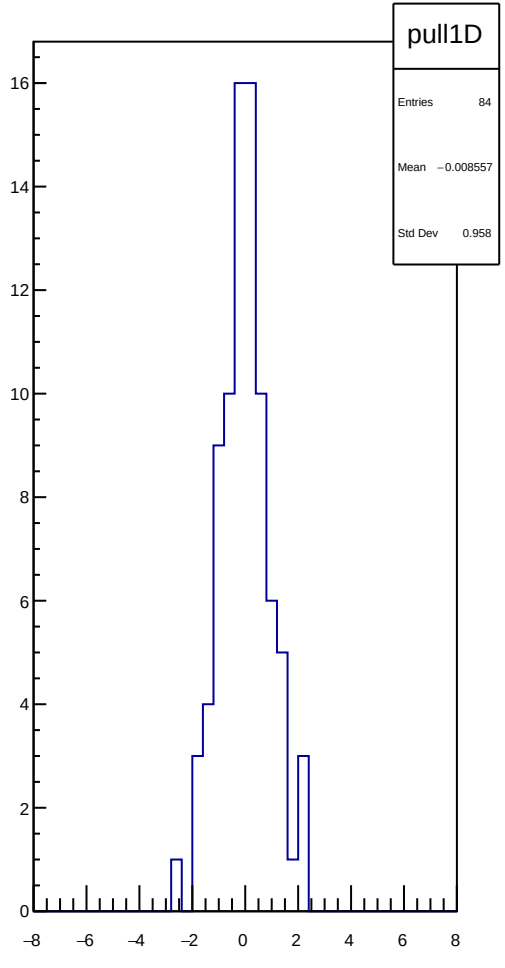

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 161 / 83
p0 3026 ± 2.368
3150
3100
3050
3000
2950

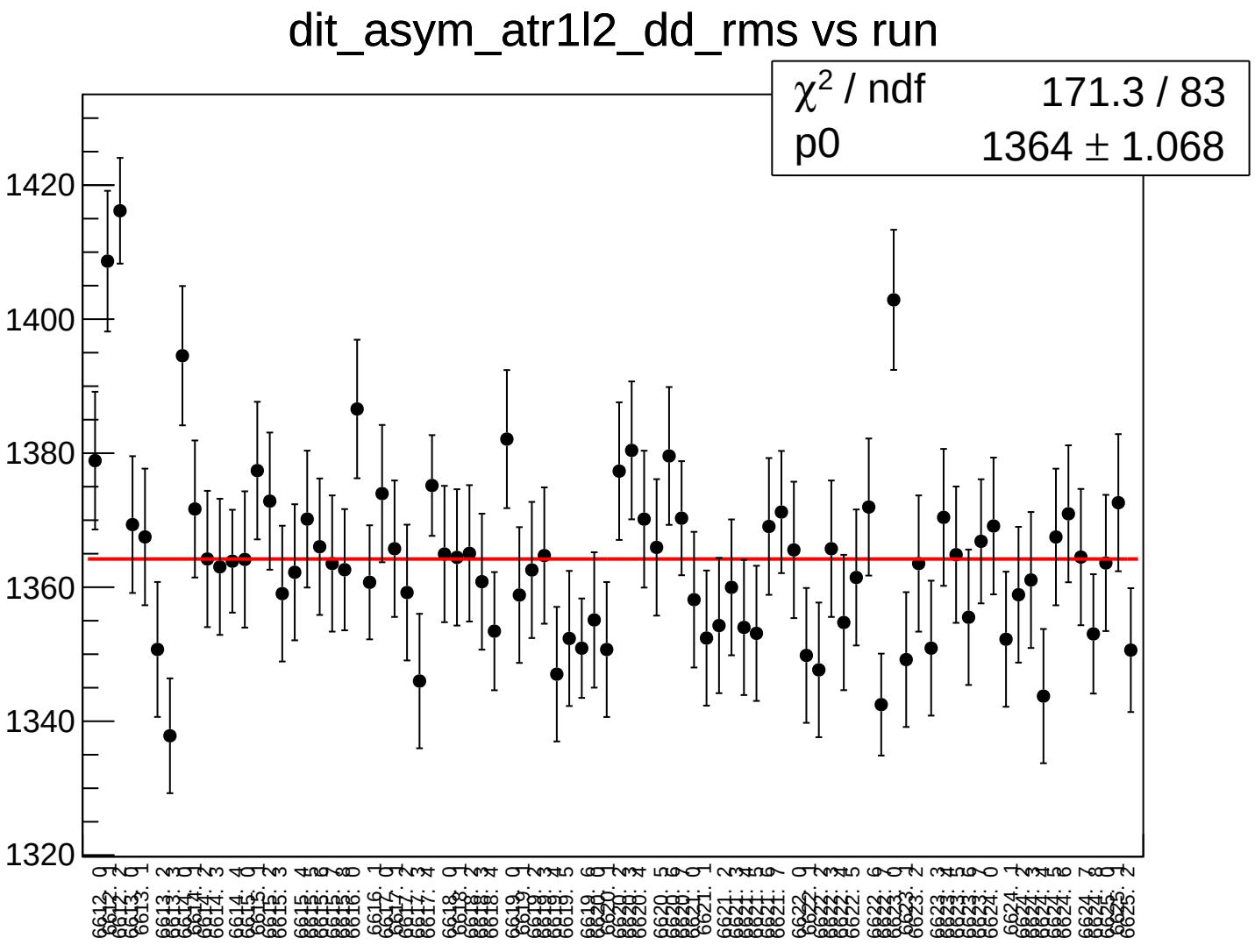

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.6 / 83
p0 282.2 ± 409.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −95.57
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

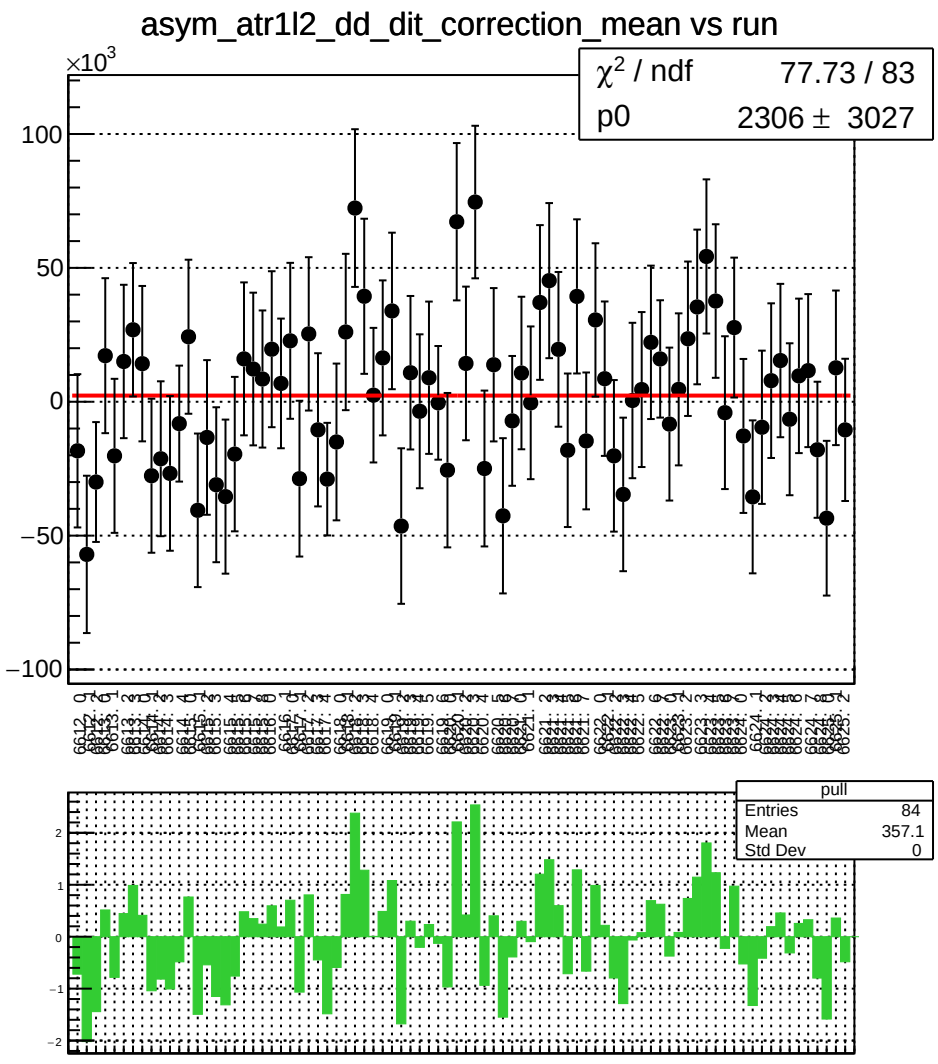

pull1D
Entries 84
Mean 0.01206
Std Dev 0.9296
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

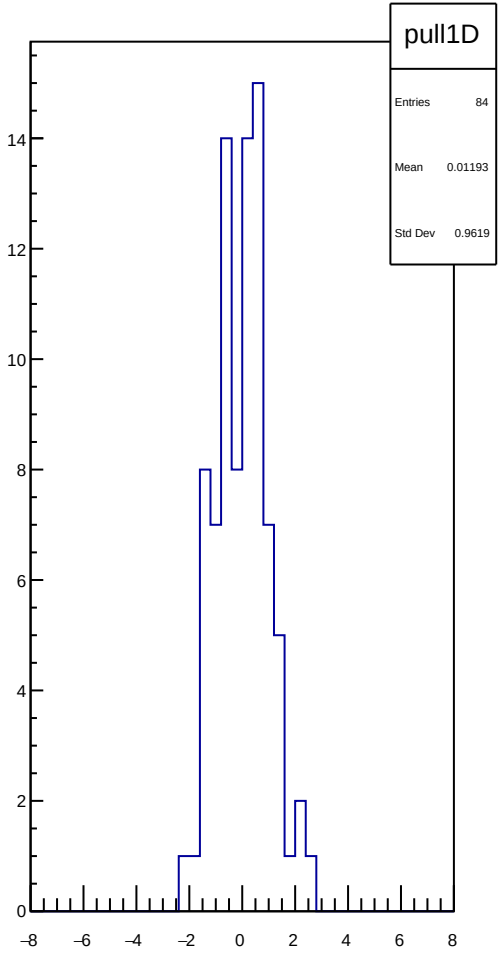

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.499e+04 / 83
p0 366.8 ± 0.2893
700
650
600
550
500
450
400
350
300
250

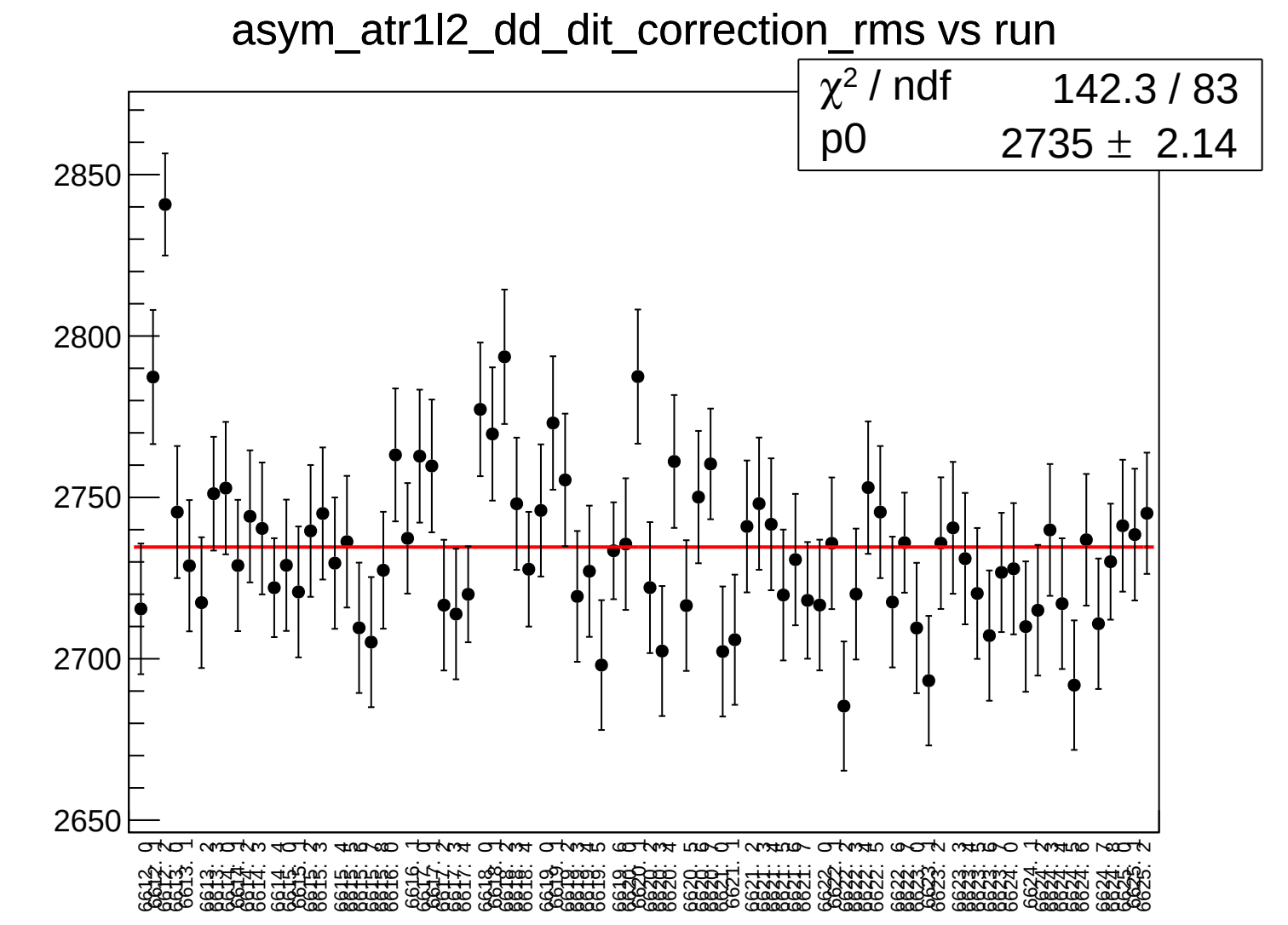

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 77.1 / 83
p0 102.9 ± 1510
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 15.27
Std Dev 77.66
2
1
0
−1
−2
−3

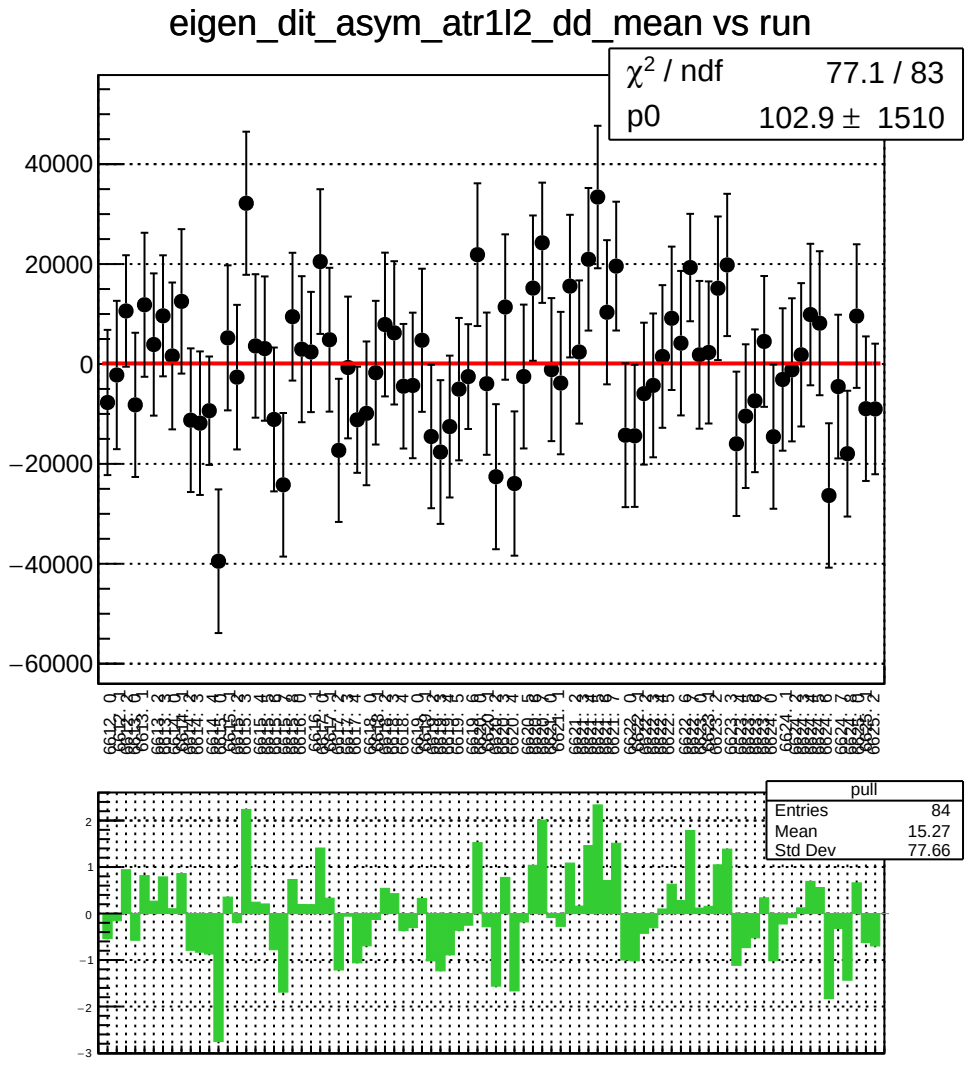

pull1D
Entries 84
Mean −0.008557
Std Dev 0.958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

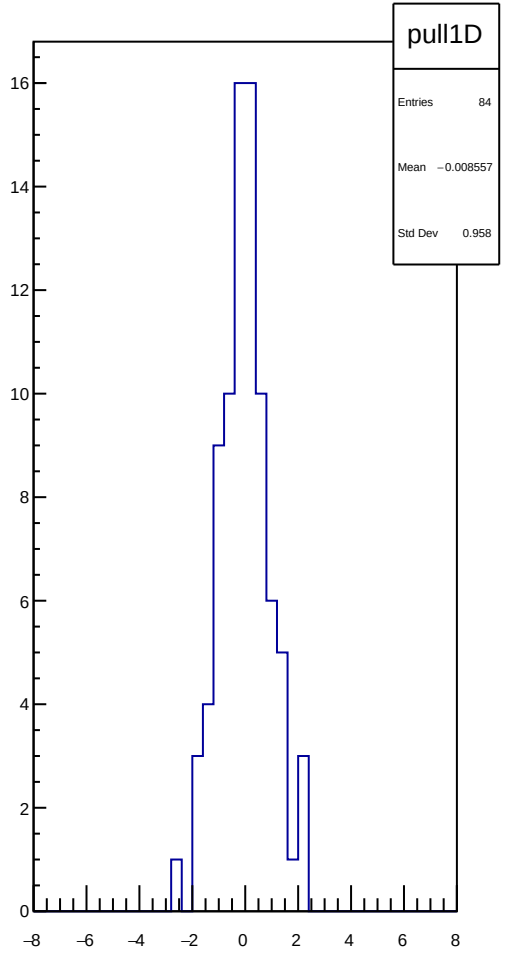

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 171.3 / 83
p0 1364 ± 1.068
1420
1400
1380
1360
1340
1320

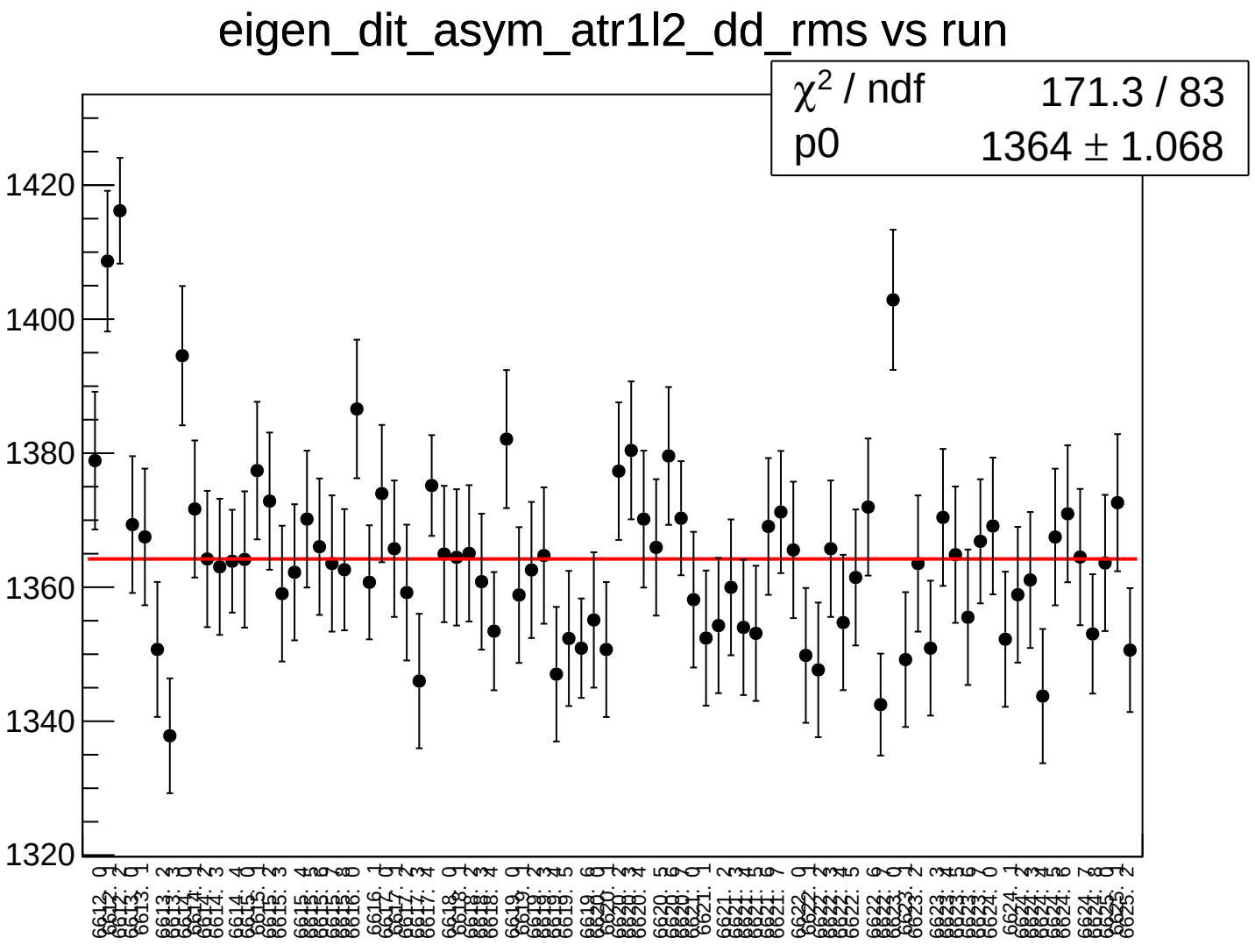

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 77.73 / 83
p0 2306 ± 3027
100
50
0
−50
−100
pull
Entries 84
Mean 357.1
Std Dev 0
2
1
0
−1
−2

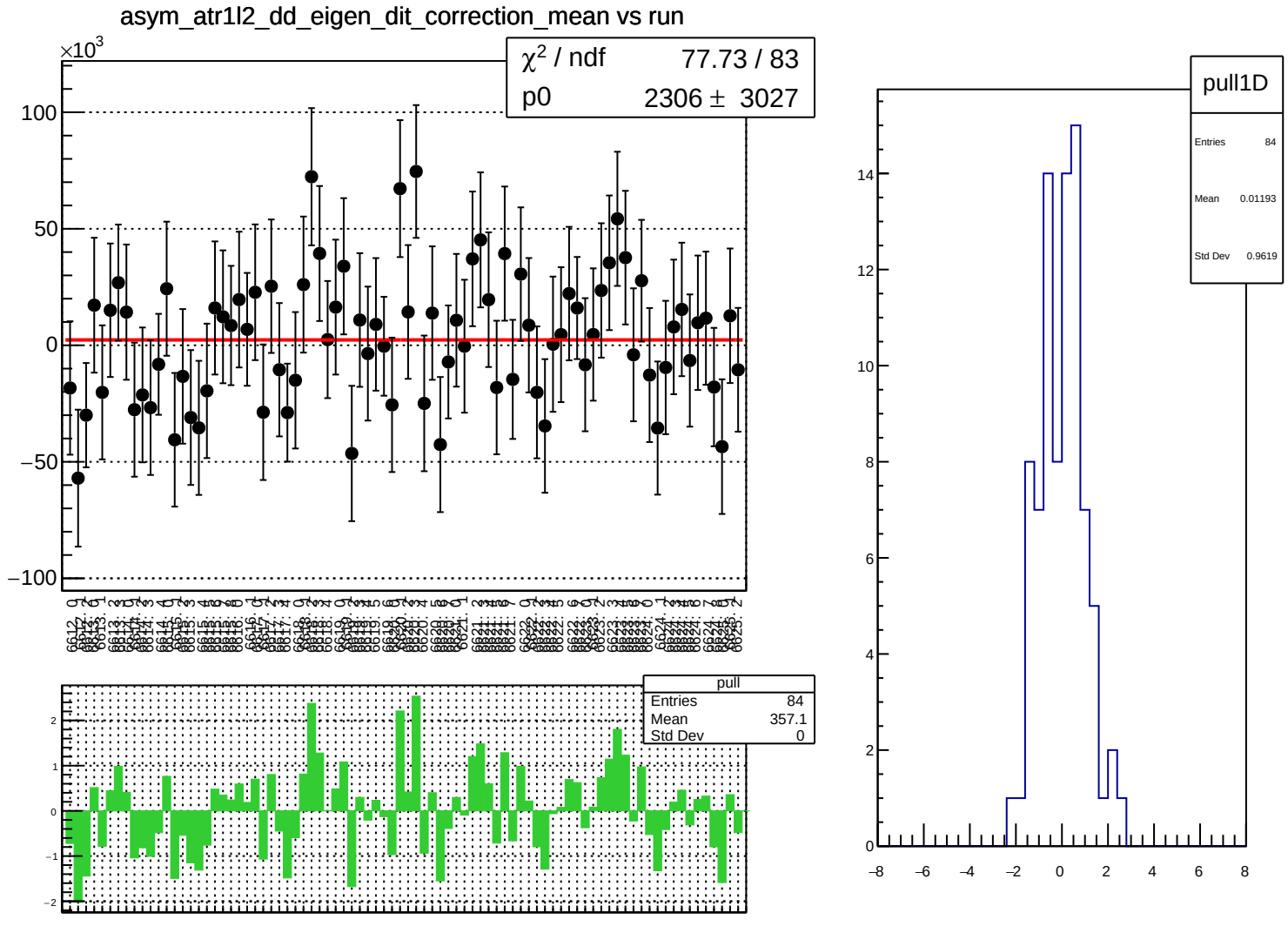

pull1D
Entries 84
Mean 0.01193
Std Dev 0.9619
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

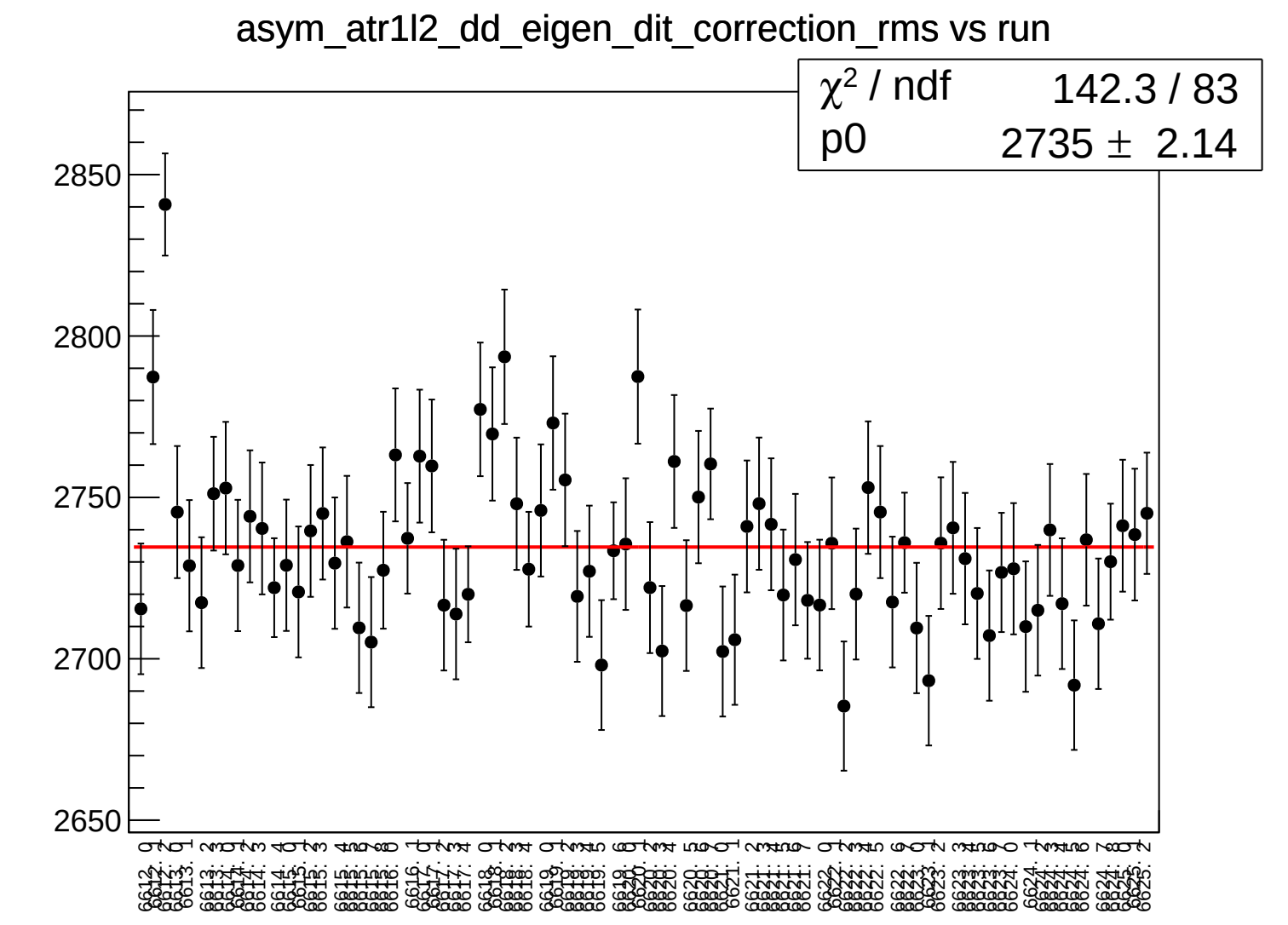

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 142.3 / 83
p0 2735 ± 2.14
2850
2800
2750
2700
2650

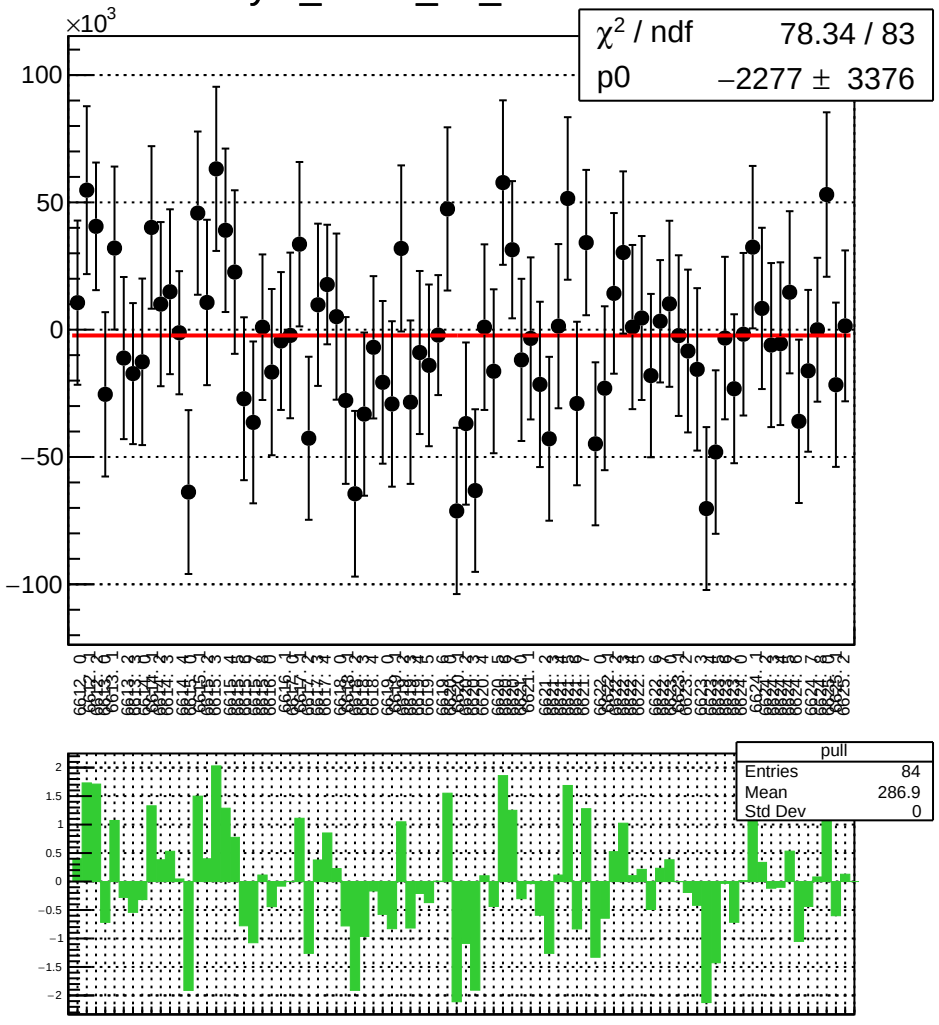

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 77.1 / 83
p0 102.9 ± 1510
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 15.27
Std Dev 77.66
2
1
0
−1
−2
−3

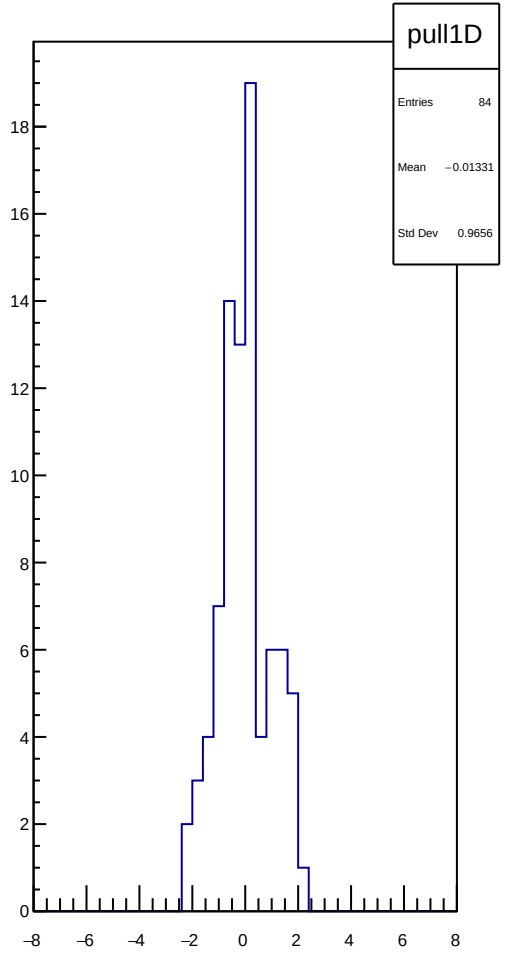

pull1D
Entries 84
Mean −0.008557
Std Dev 0.958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

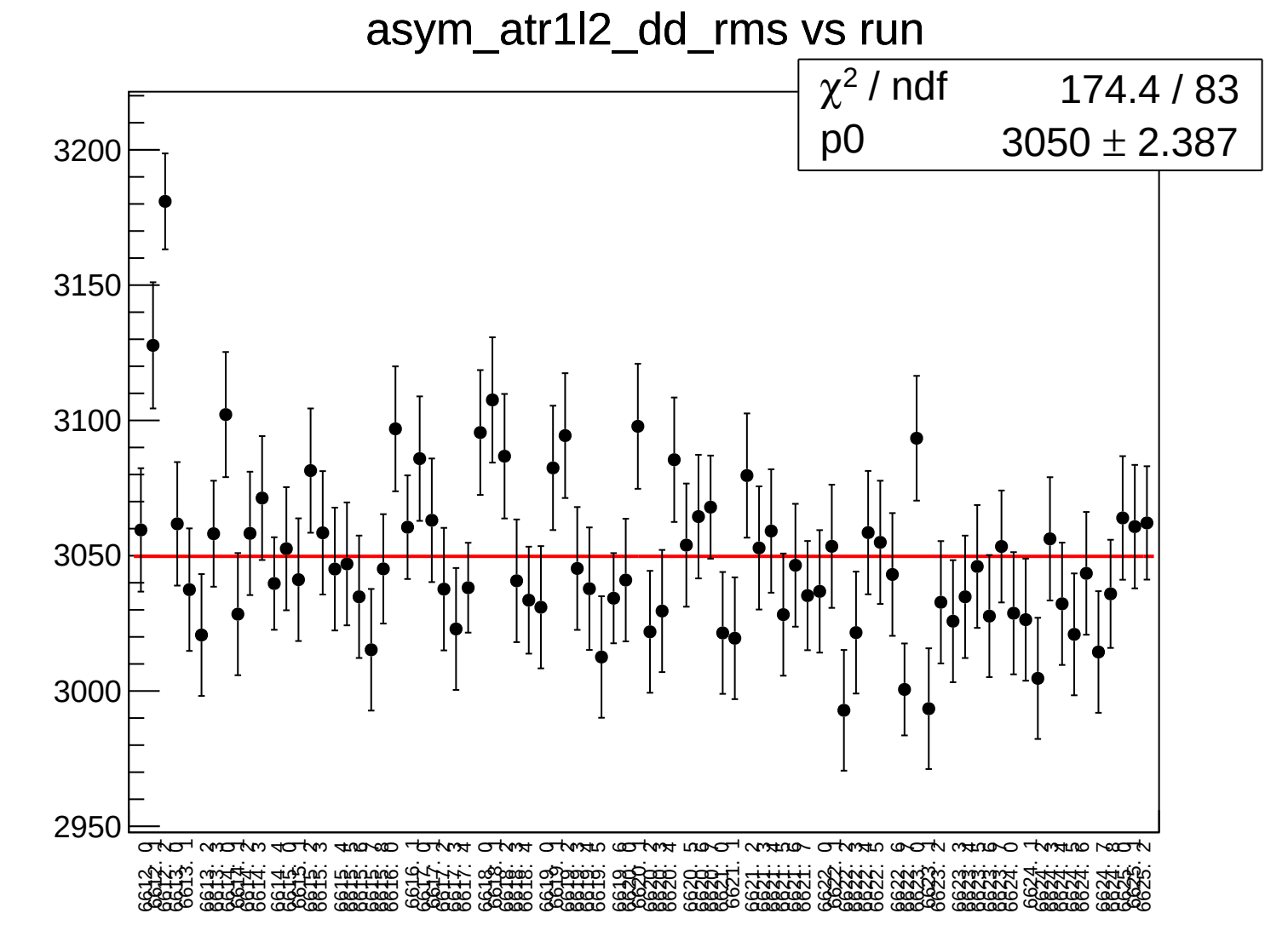

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 171.3 / 83
p0 1364 ± 1.068
1420
1400
1380
1360
1340
1320

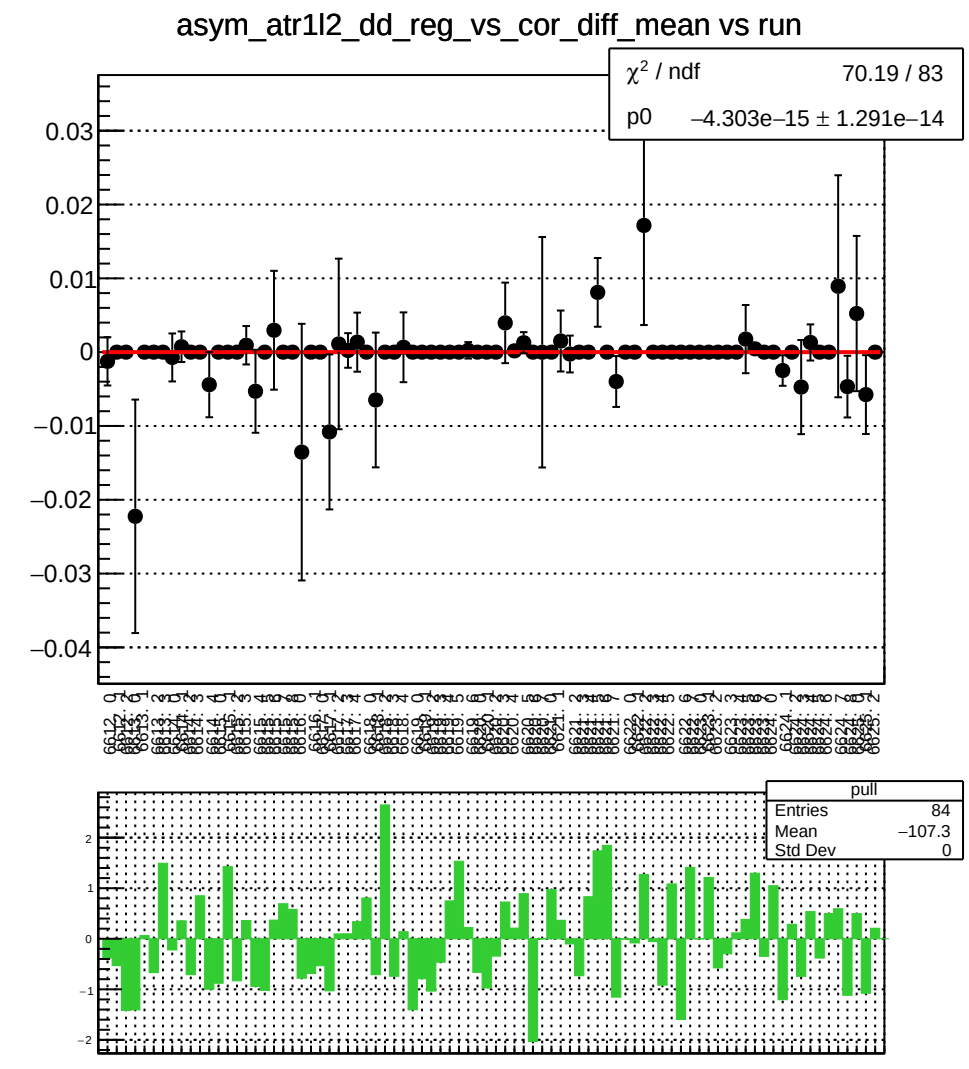

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.73 / 83
p0 2306 ± 3027
100
50
0
−50
−100
pull
Entries 84
Mean 357.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.01193
Std Dev 0.9619
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

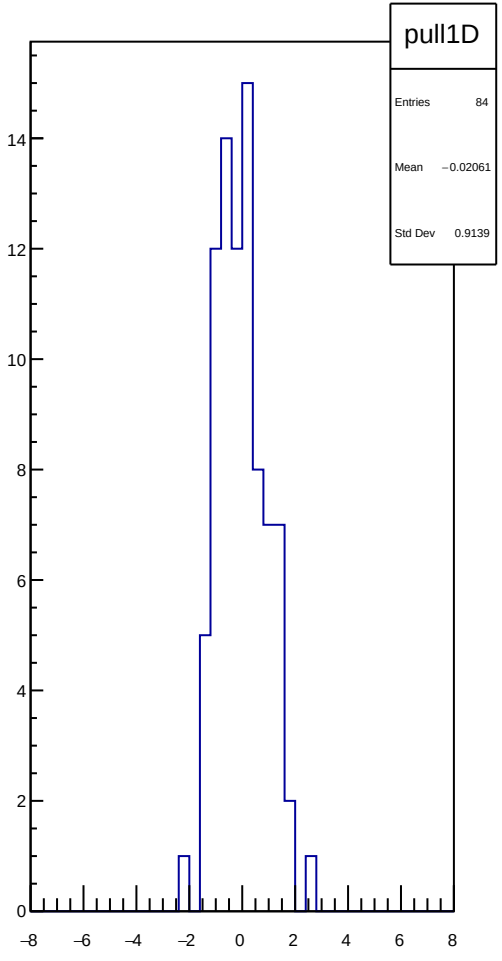

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 142.3 / 83
p0 2735 ± 2.14
2850
2800
2750
2700
2650

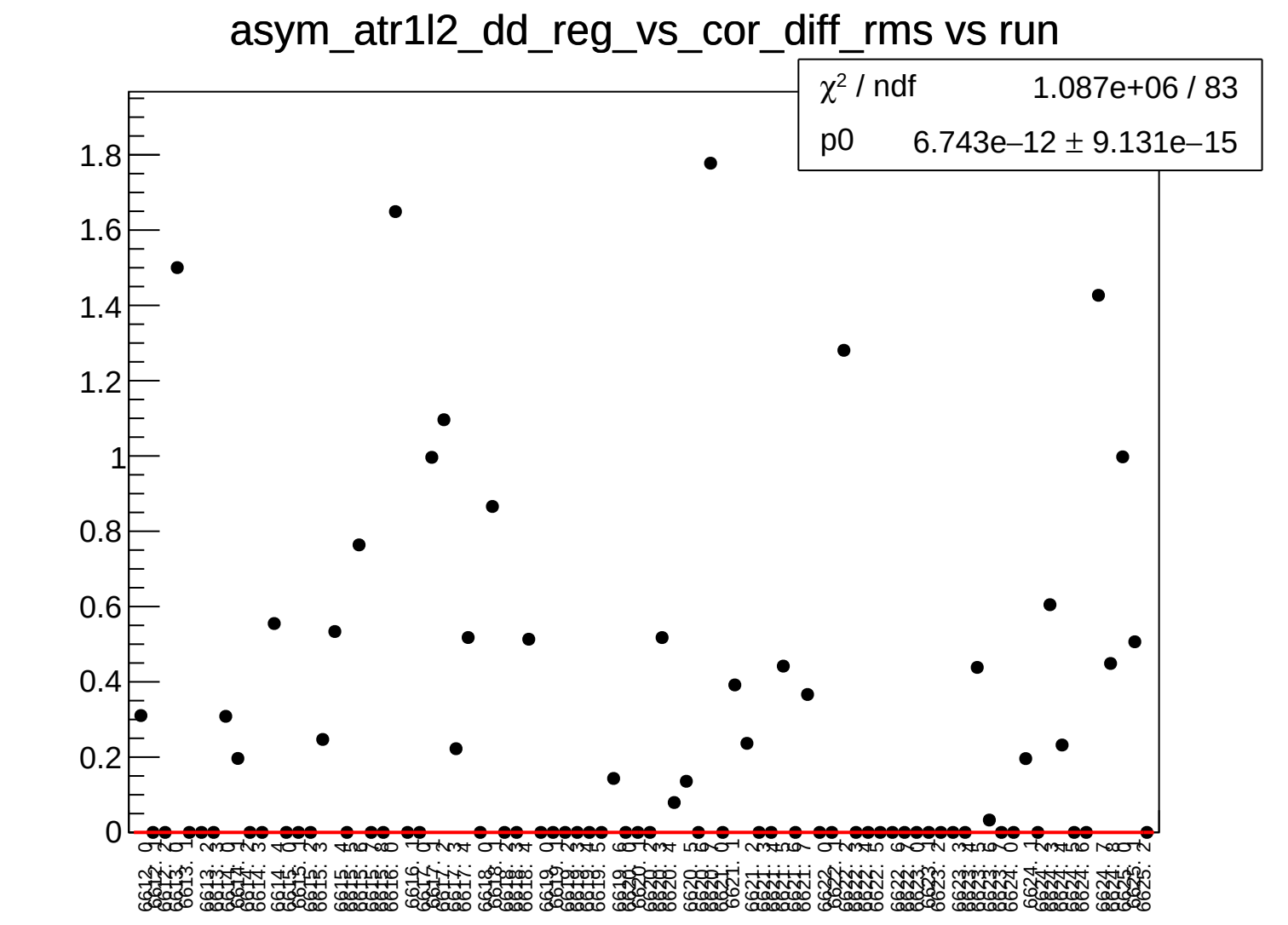

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 78.34 / 83
p0 −2277 ± 3376
100
50
0
−50
−100
pull
Entries 84
Mean 286.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

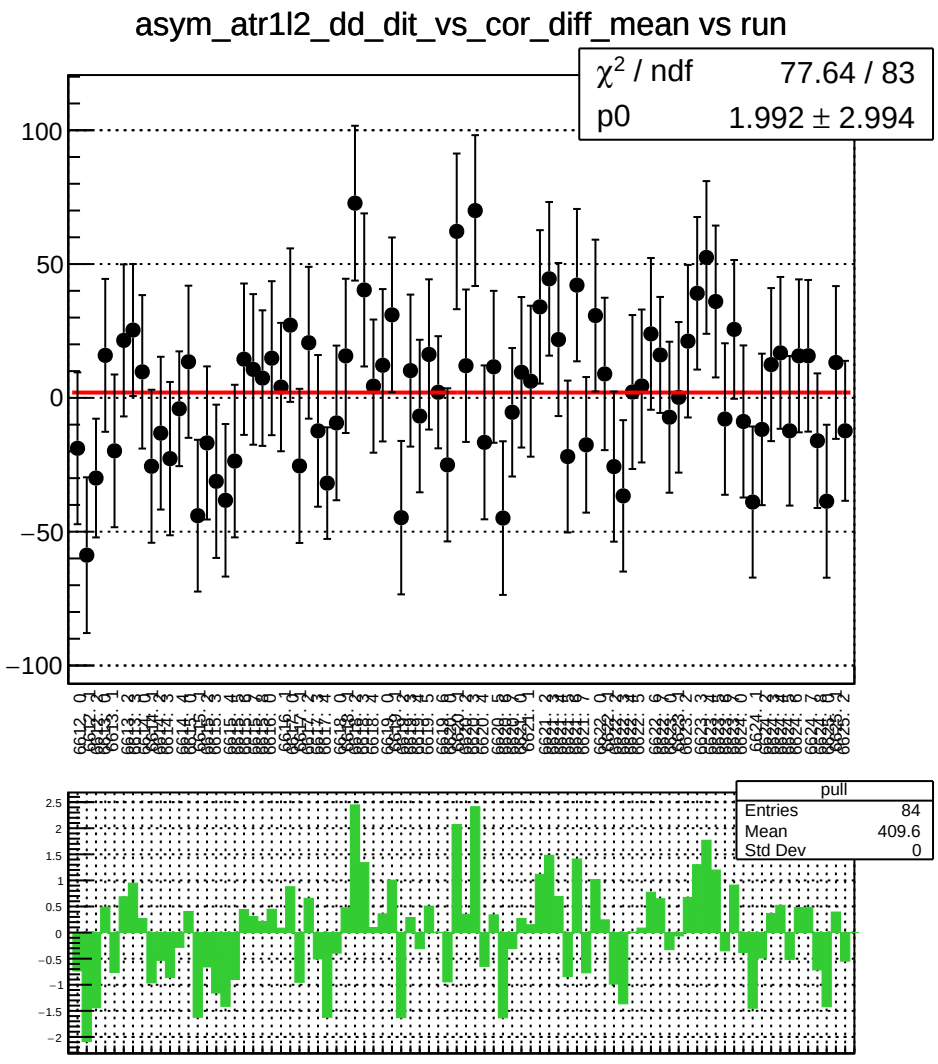

pull1D
Entries 84
Mean −0.01331
Std Dev 0.9656
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

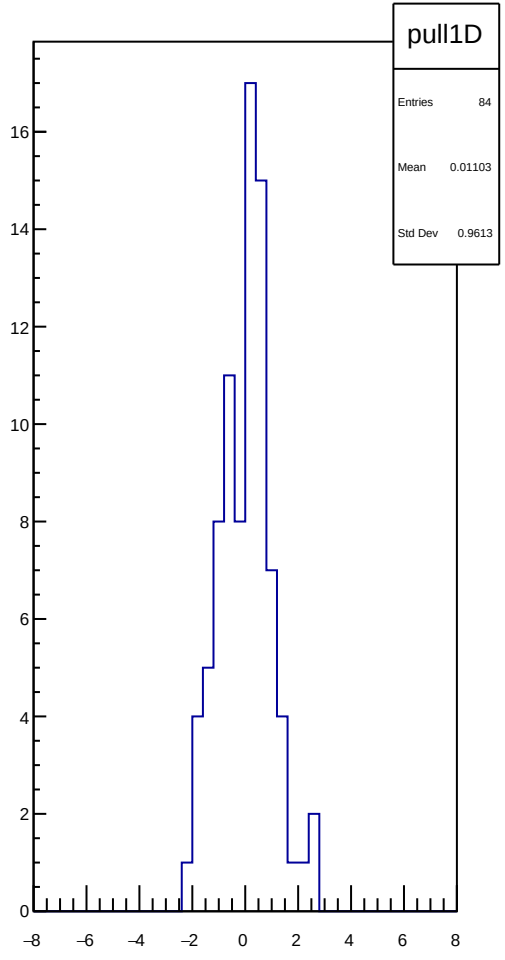

asym_atr1l2_dd_rms vs run
χ² / ndf 174.4 / 83
p0 3050 ± 2.387
3200
3150
3100
3050
3000
2950

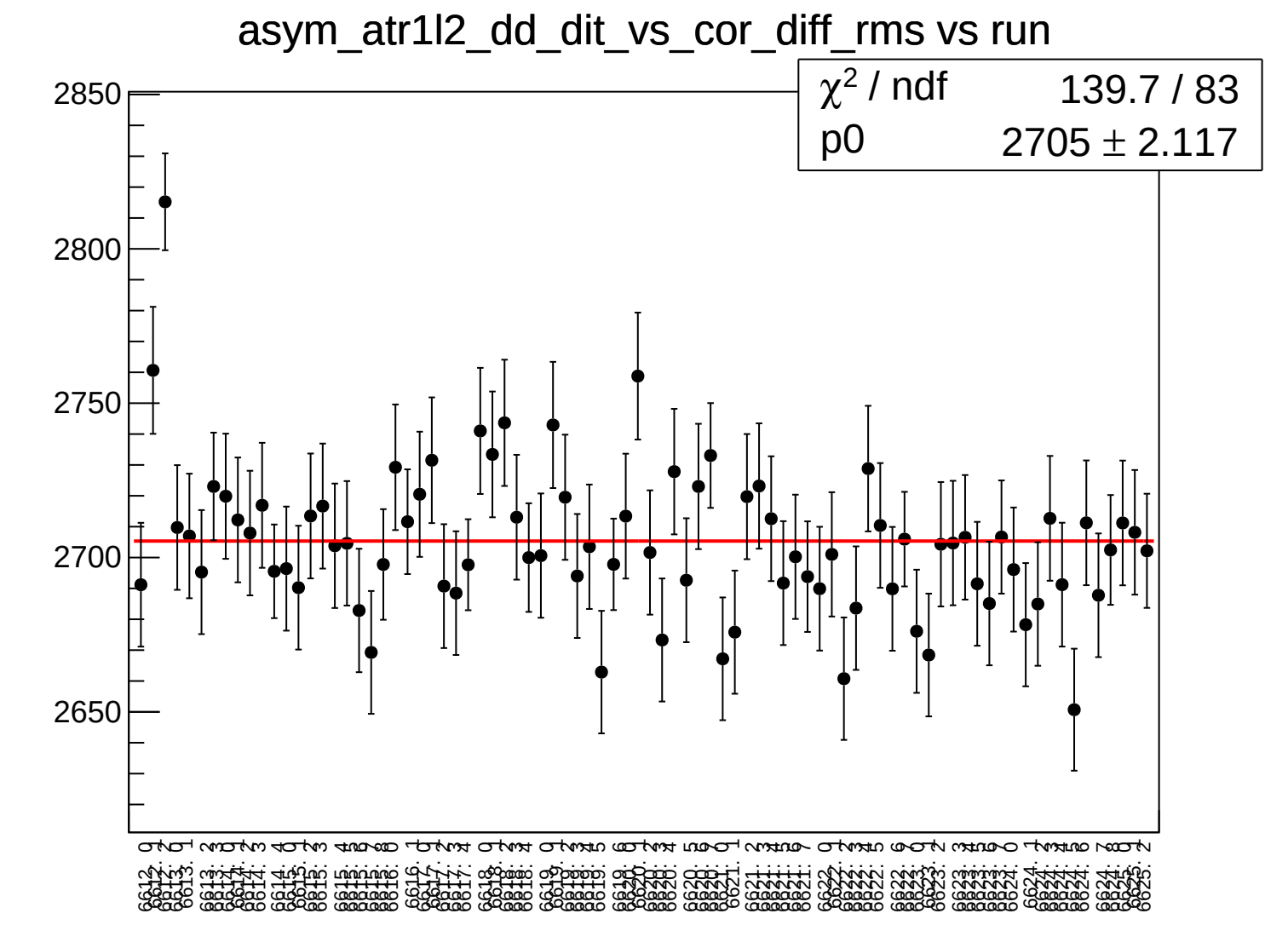

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.19 / 83
p0 −4.303e−15 ± 1.291e−14
pull
Entries 84
Mean −107.3
Std Dev 0

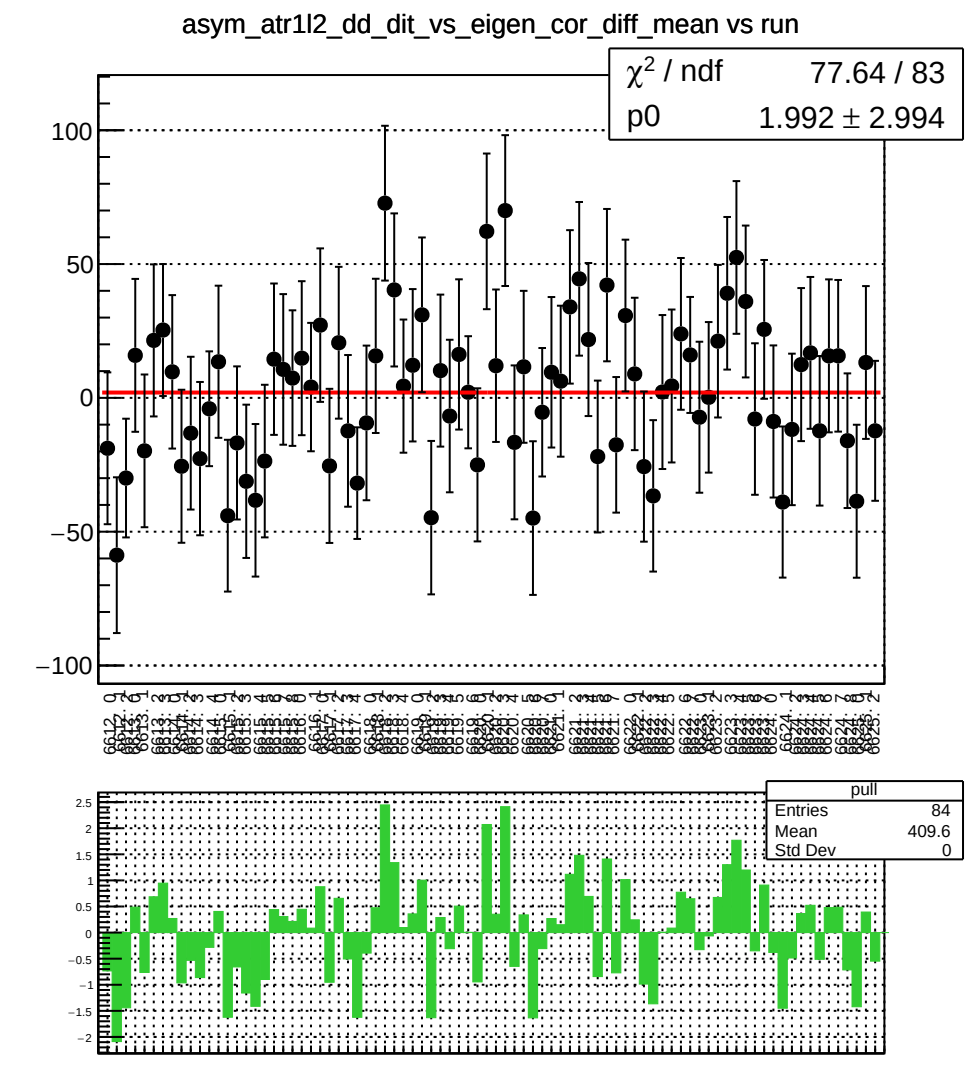

pull1D
Entries 84
Mean −0.02061
Std Dev 0.9139

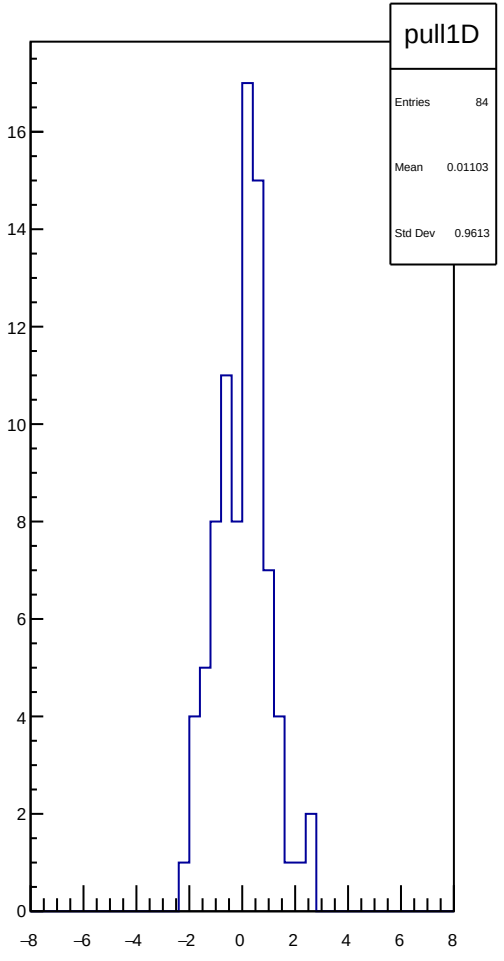

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.087e+06 / 83
p0 6.743e−12 ± 9.131e−15
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

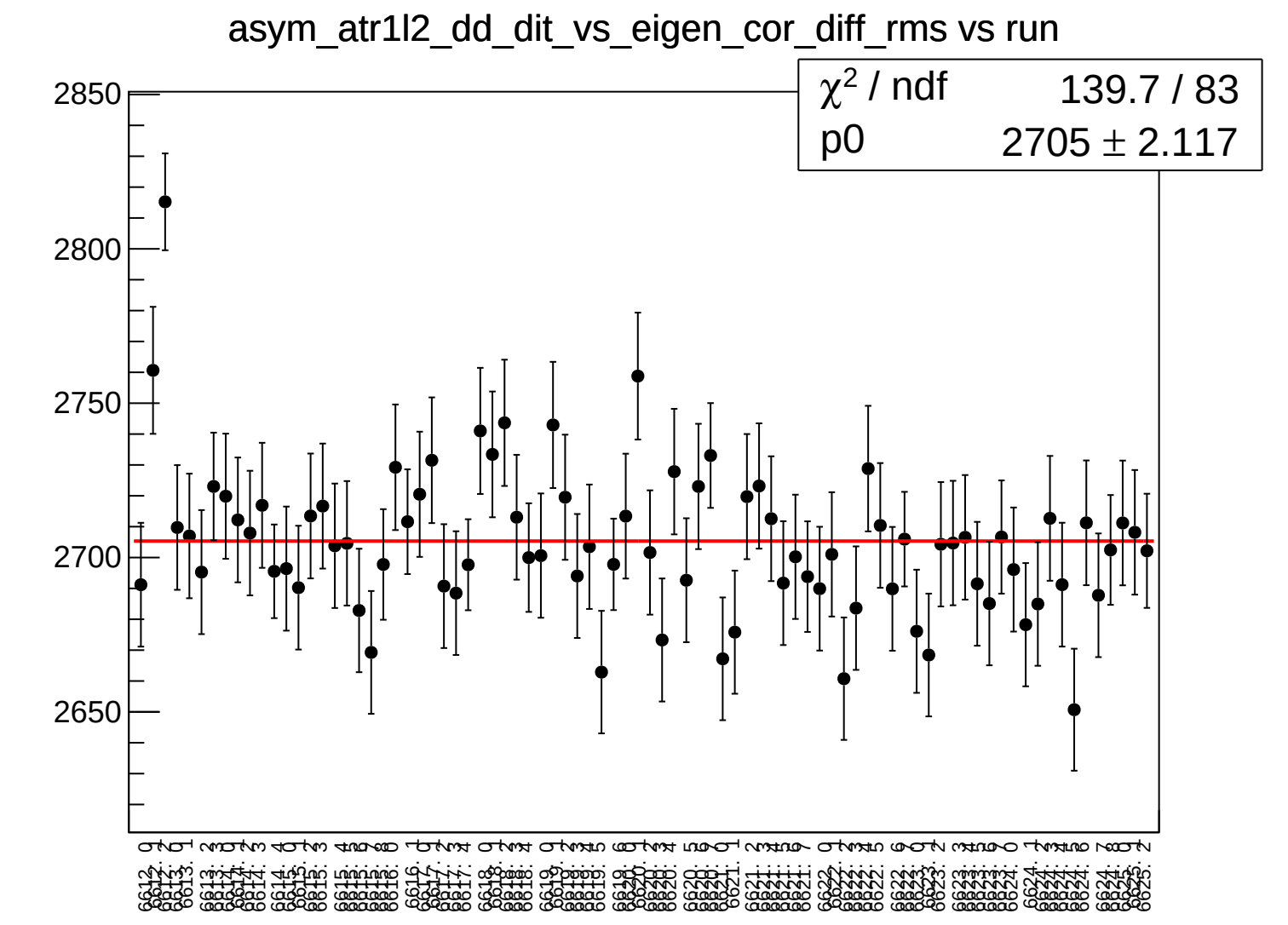

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.64 / 83
p0 1.992 ± 2.994
100
50
0
−50
−100
pull
Entries 84
Mean 409.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

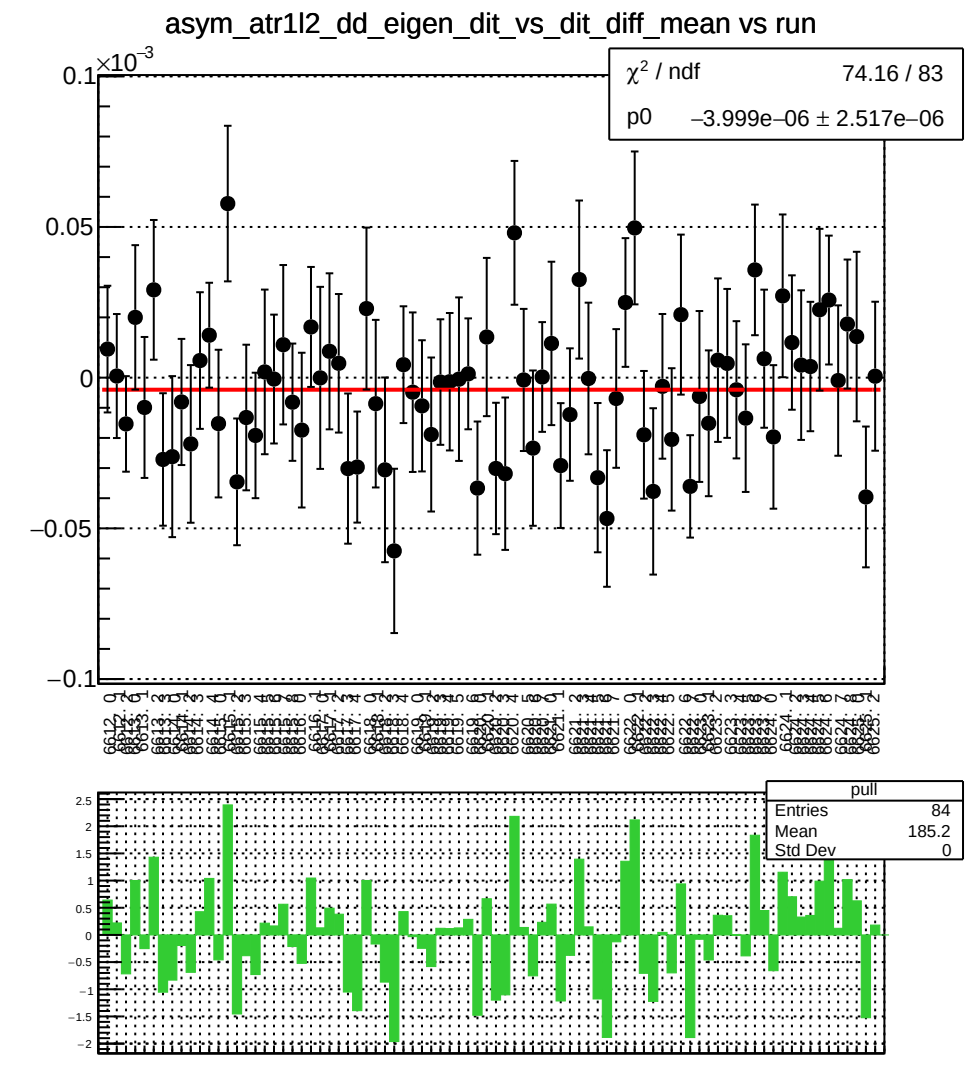

pull1D
Entries 84
Mean 0.01103
Std Dev 0.9613
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

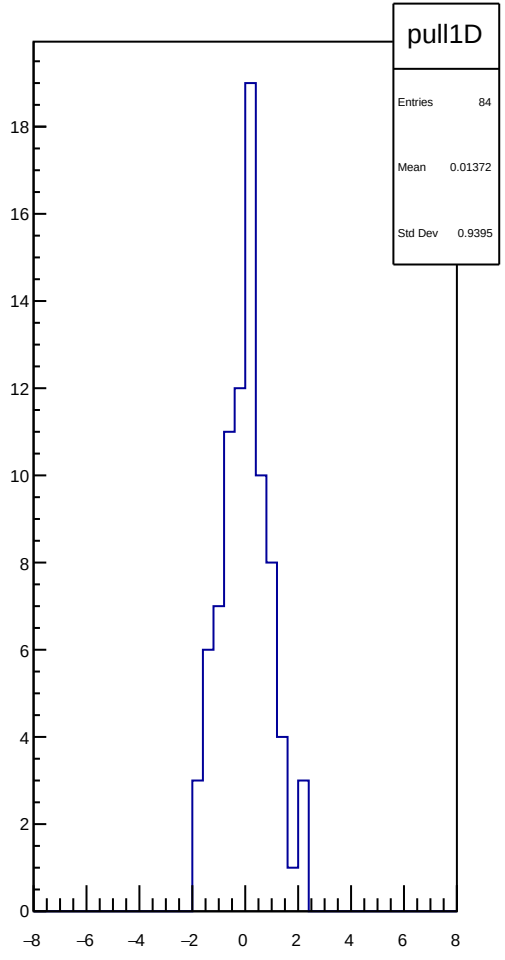

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 139.7 / 83
p0 2705 ± 2.117
2850
2800
2750
2700
2650

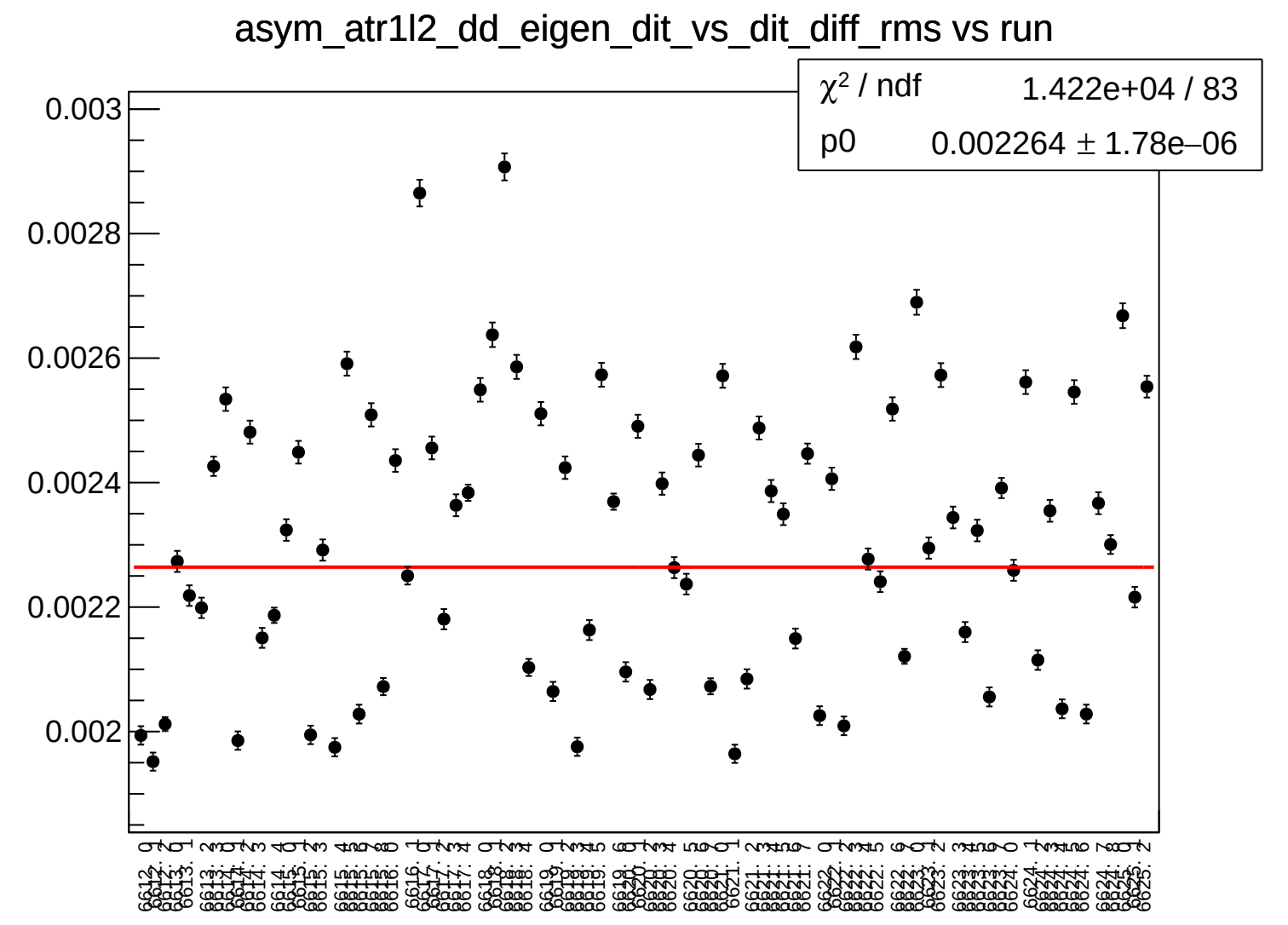

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.64 / 83
p0 1.992 ± 2.994
100
50
0
−50
−100
pull
Entries 84
Mean 409.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

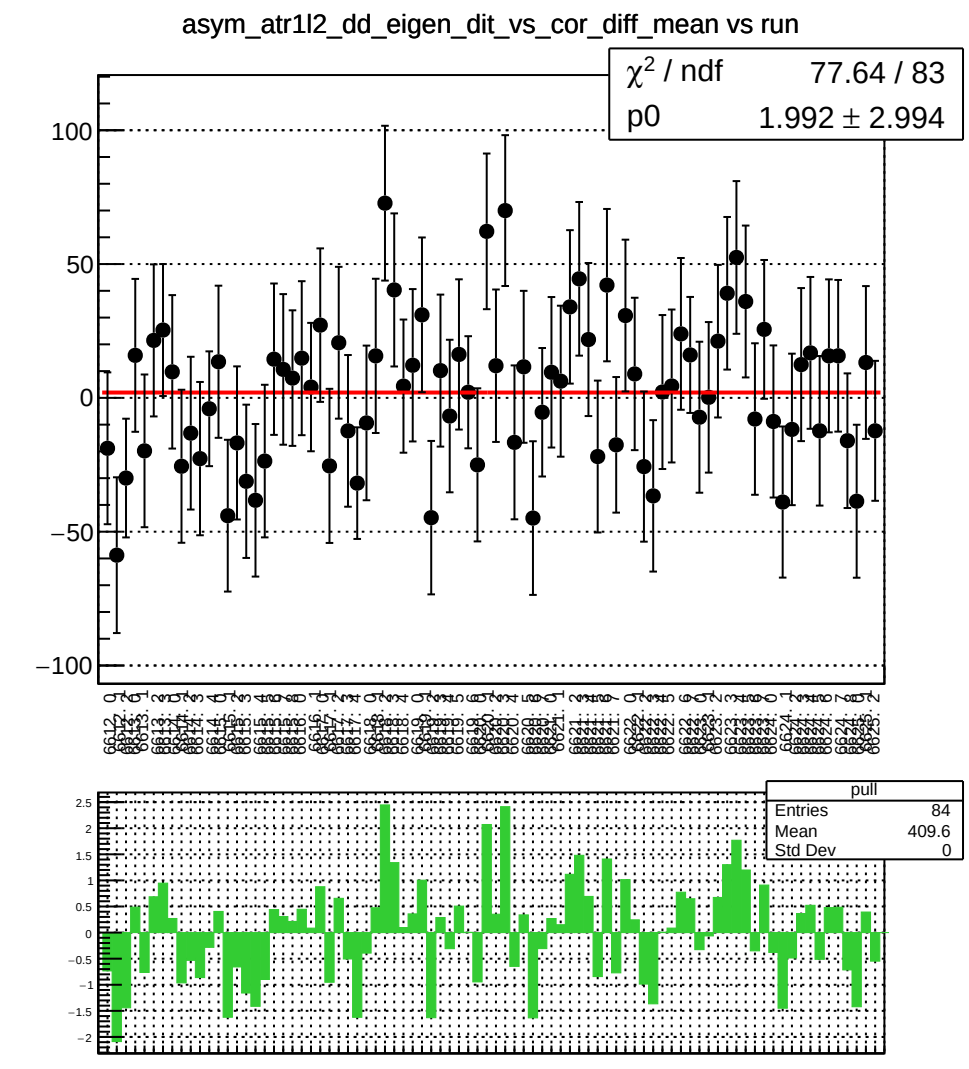

pull1D
Entries 84
Mean 0.01103
Std Dev 0.9613
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

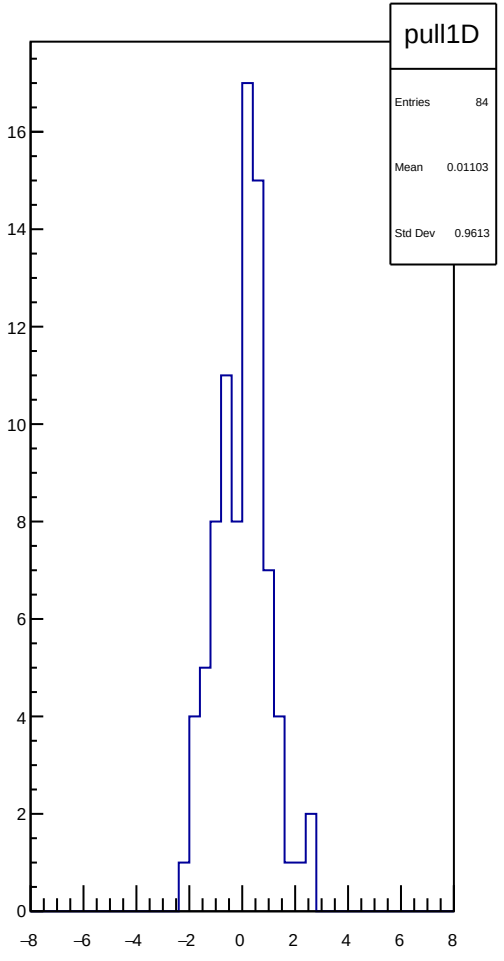

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 139.7 / 83
p0 2705 ± 2.117
2850
2800
2750
2700
2650

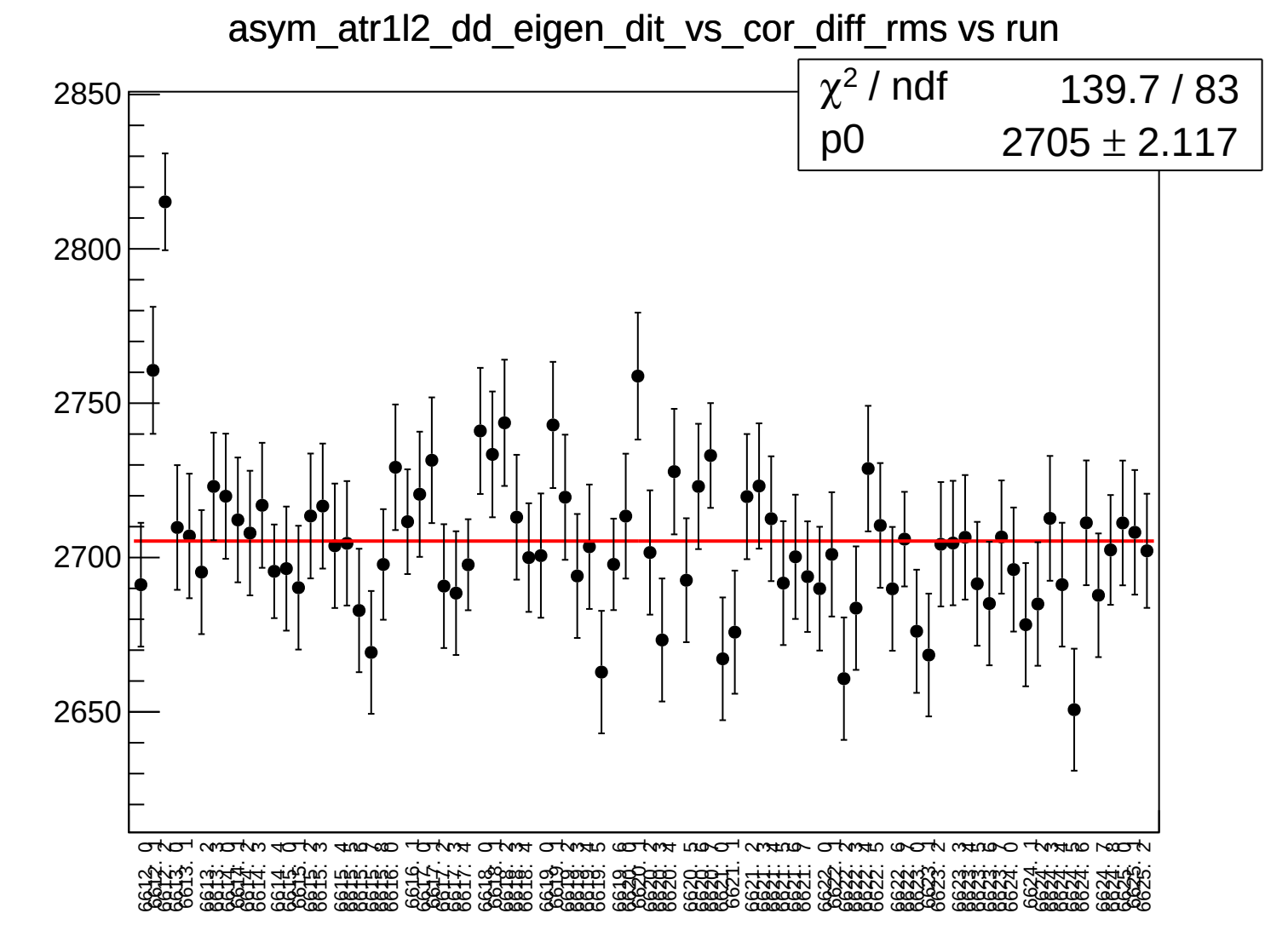

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.16 / 83
p0 −3.999e−06 ± 2.517e−06
pull
Entries 84
Mean 185.2
Std Dev 0

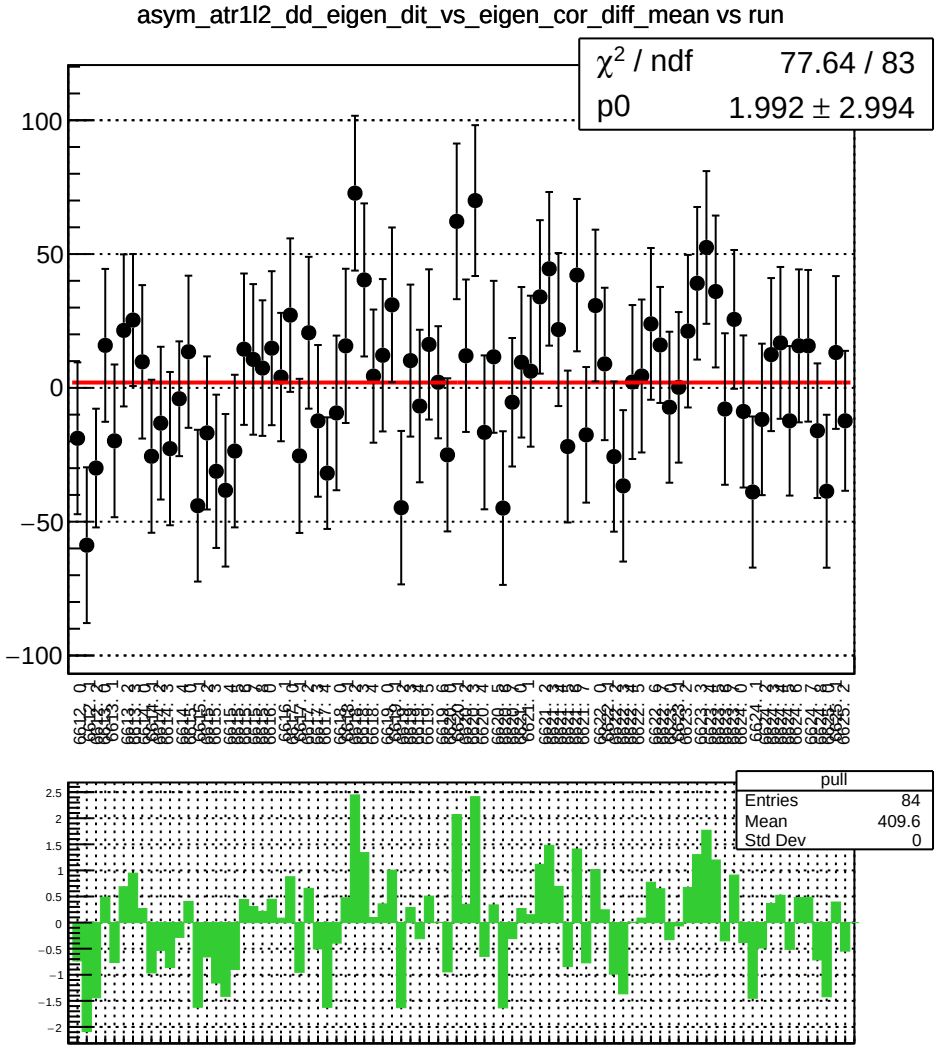

pull1D
Entries 84
Mean 0.01372
Std Dev 0.9395

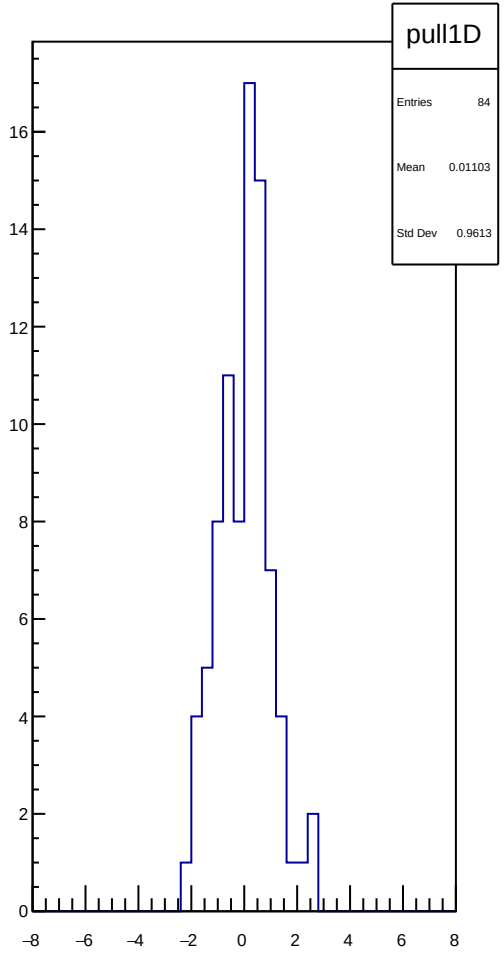

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.422e+04 / 83
p0 0.002264 ± 1.78e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

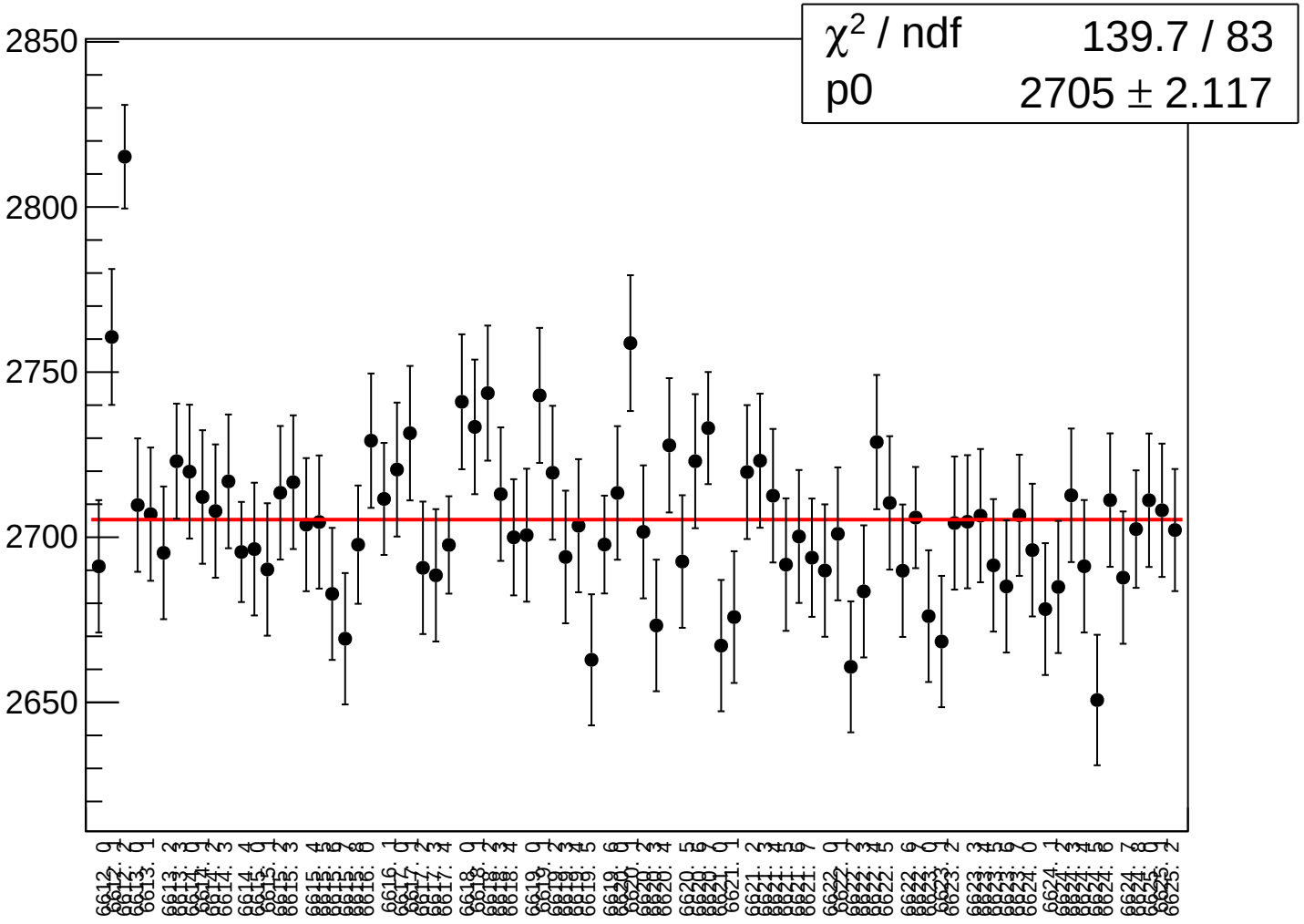

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.64 / 83
p0 1.992 ± 2.994
100
50
0
−50
−100
pull
Entries 84
Mean 409.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

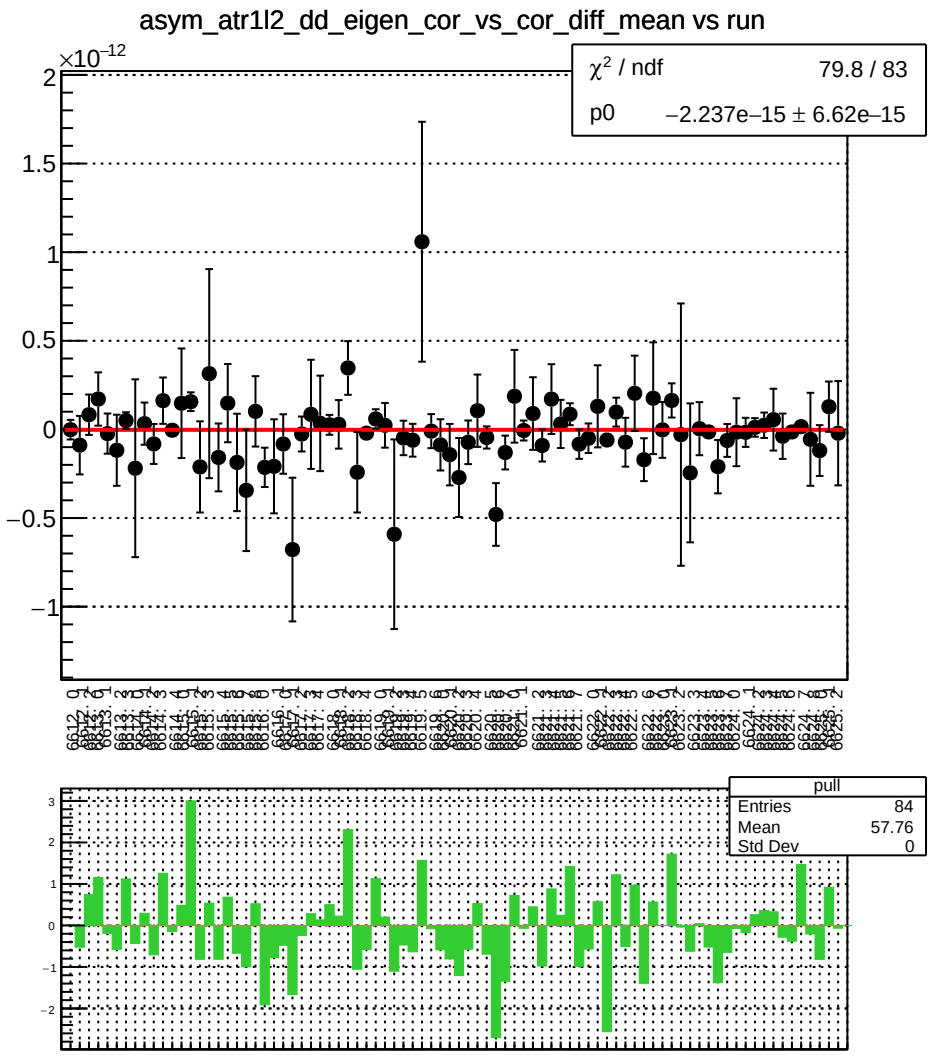

pull1D
Entries 84
Mean 0.01103
Std Dev 0.9613
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

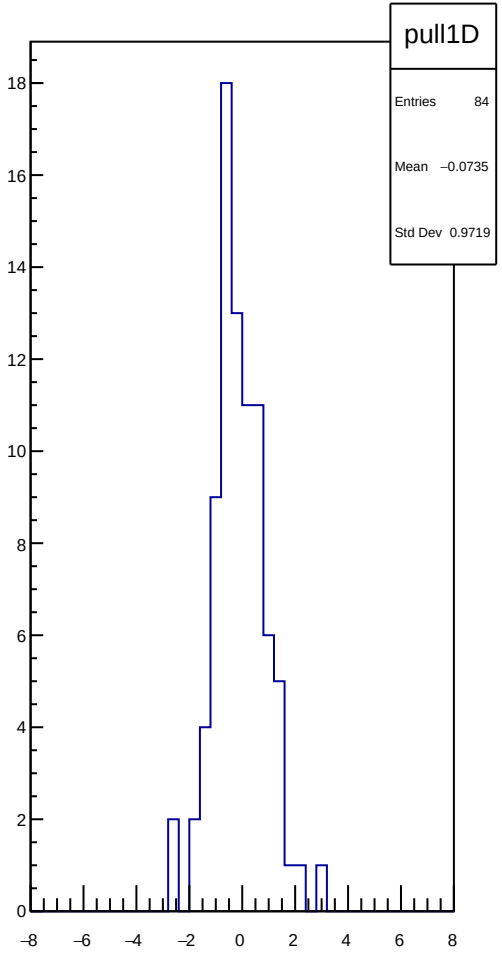

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 139.7 / 83
p0 2705 ± 2.117
2850
2800
2750
2700
2650

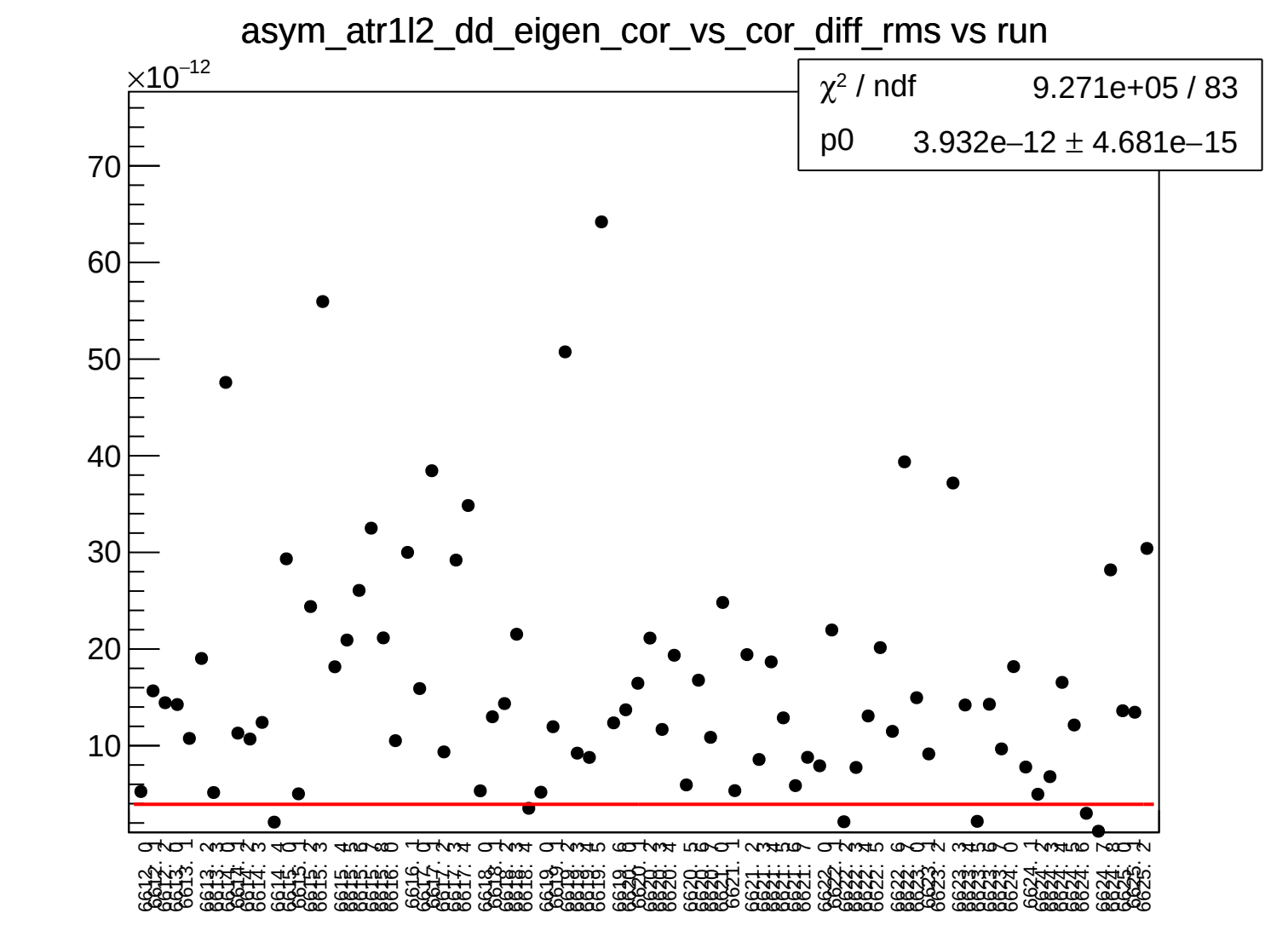

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.64 / 83
p0 1.992 ± 2.994
100
50
0
−50
−100
pull
Entries 84
Mean 409.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

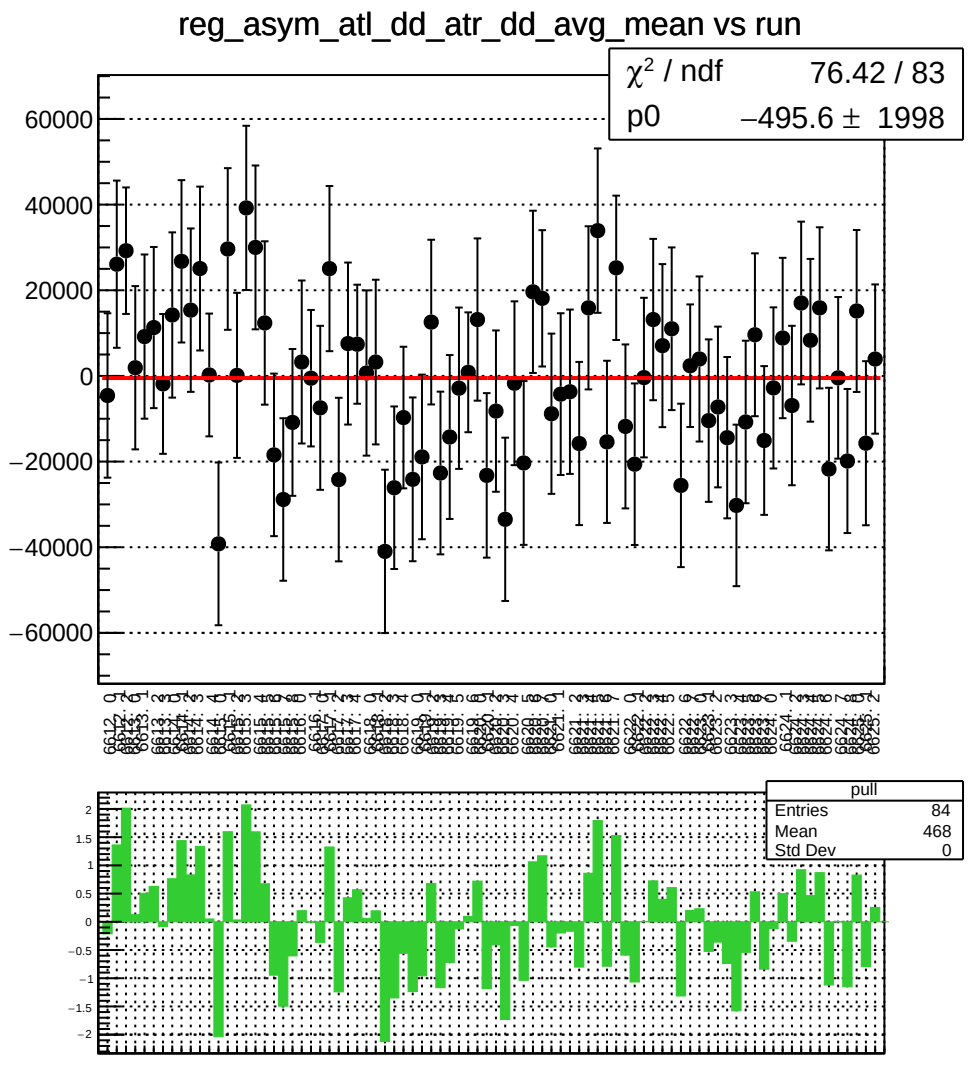

pull1D
Entries 84
Mean 0.01103
Std Dev 0.9613
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

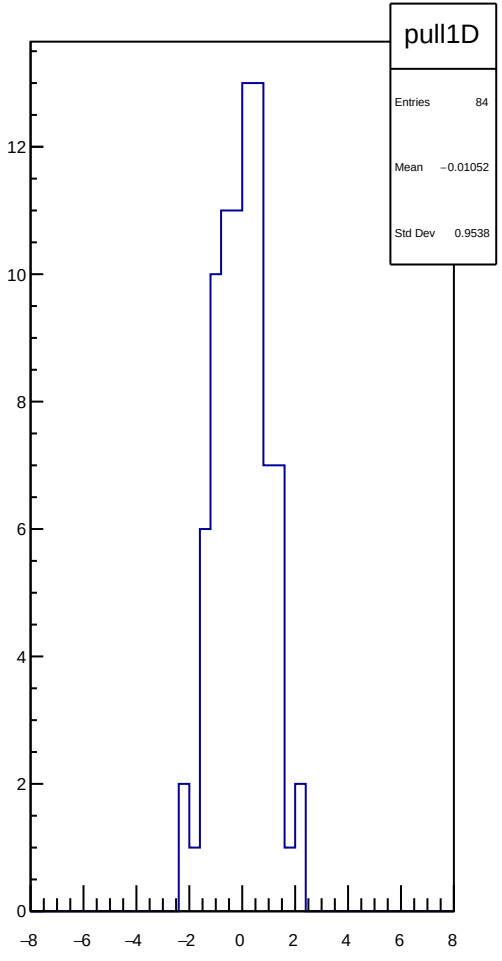

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 139.7 / 83
p0 2705 ± 2.117
2850
2800
2750
2700
2650

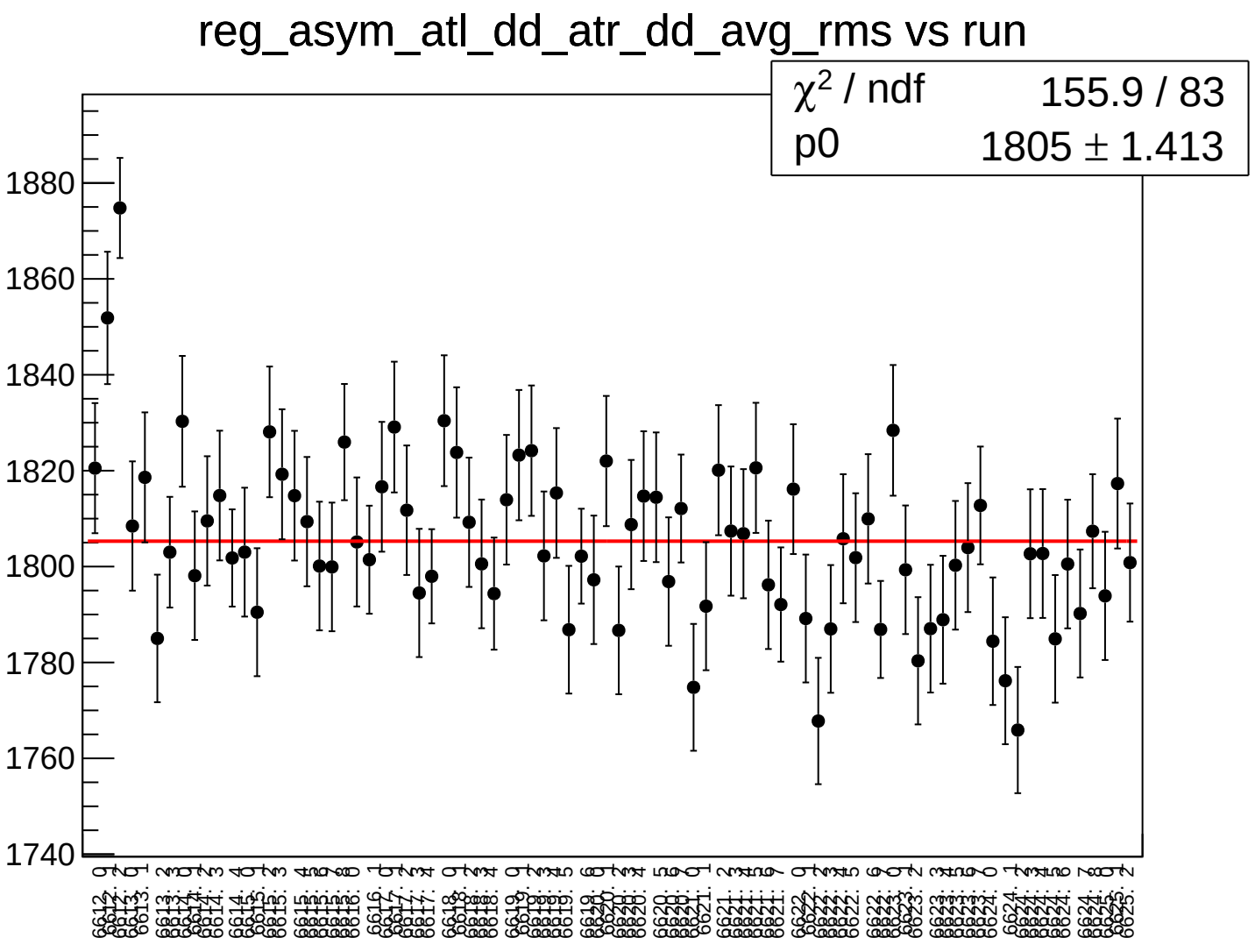

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.8 / 83
p0 −2.237e−15 ± 6.62e−15
pull
Entries 84
Mean 57.76
Std Dev 0

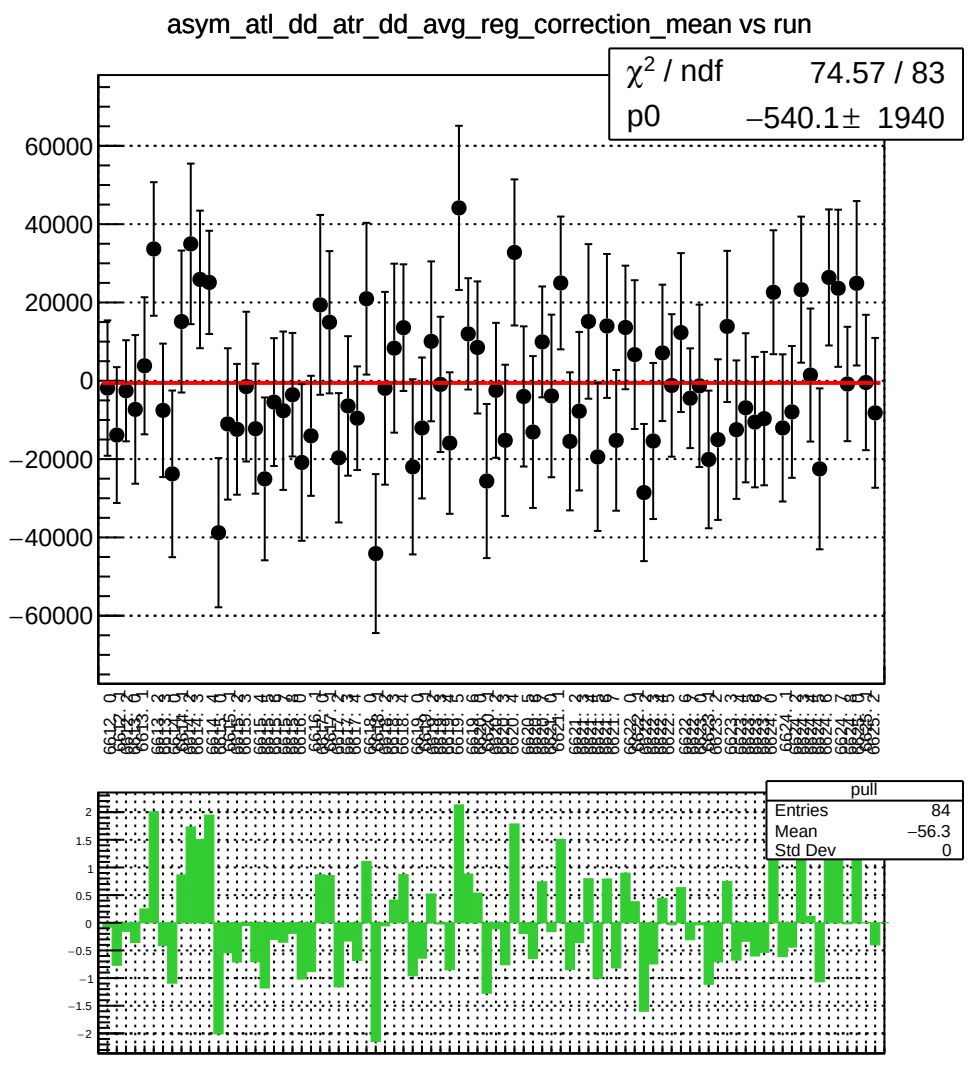

pull1D
Entries 84
Mean −0.0735
Std Dev 0.9719

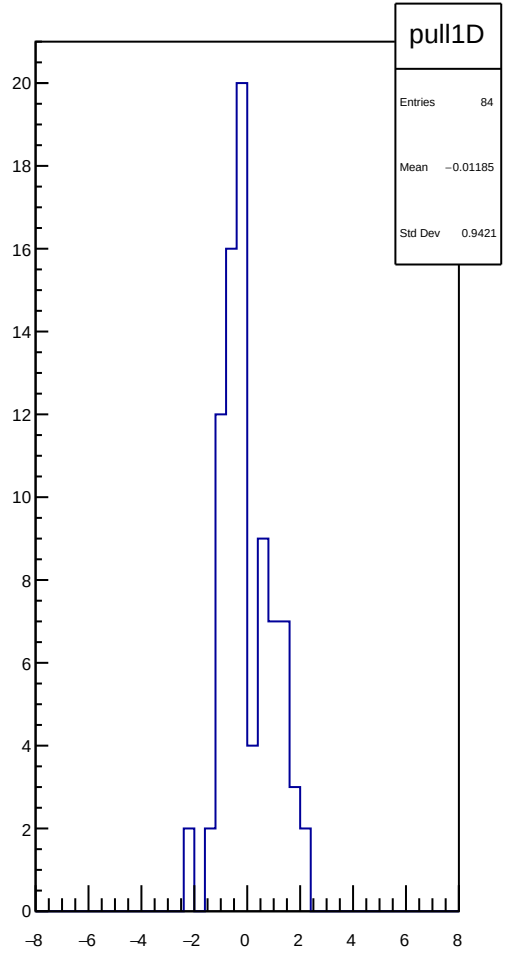

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.271e+05 / 83
p0 3.932e−12 ± 4.681e−15
70
60
50
40
30
20
10

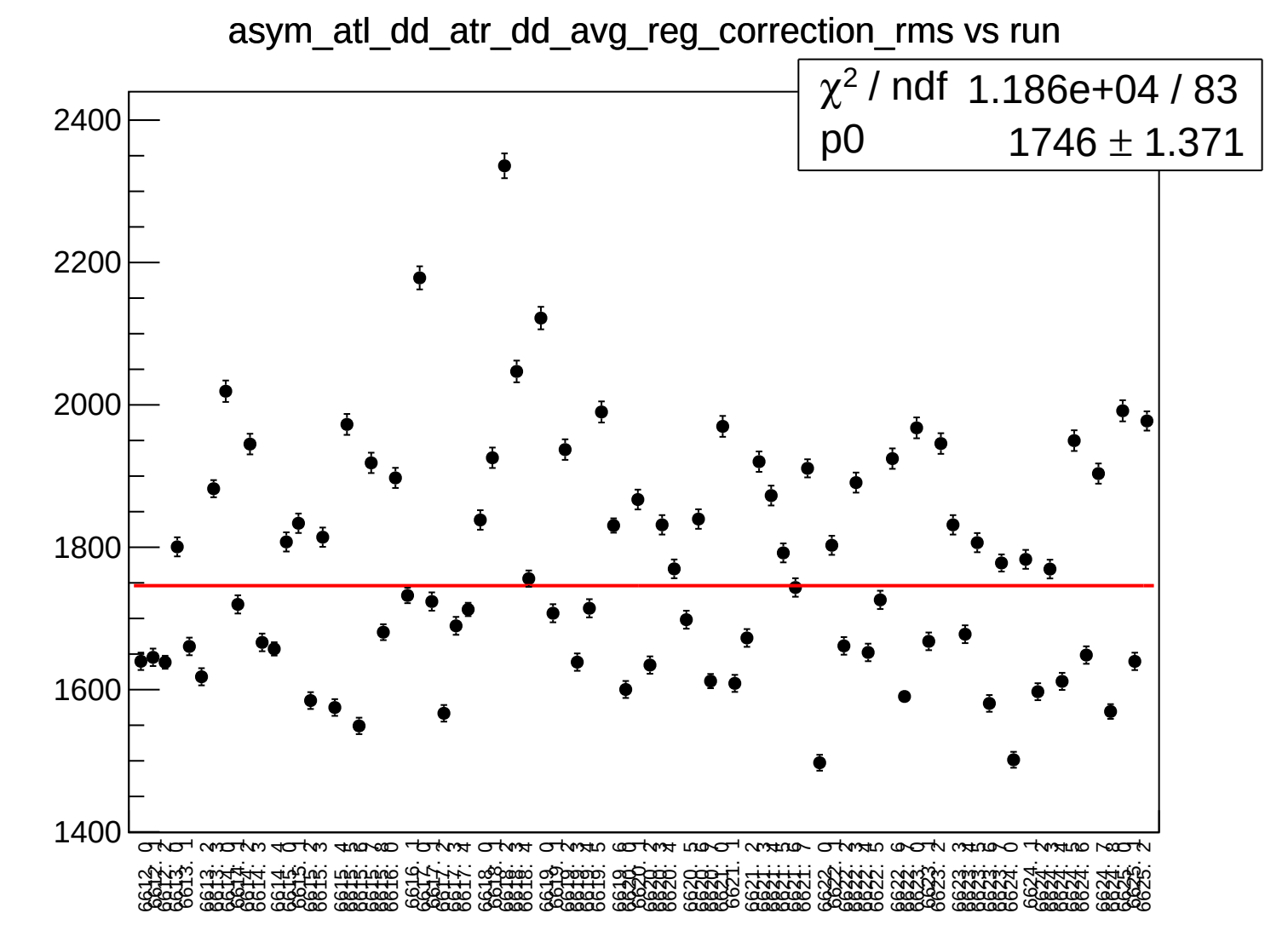

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 76.42 / 83
p0 −495.6 ± 1998
pull
Entries 84
Mean 468
Std Dev 0

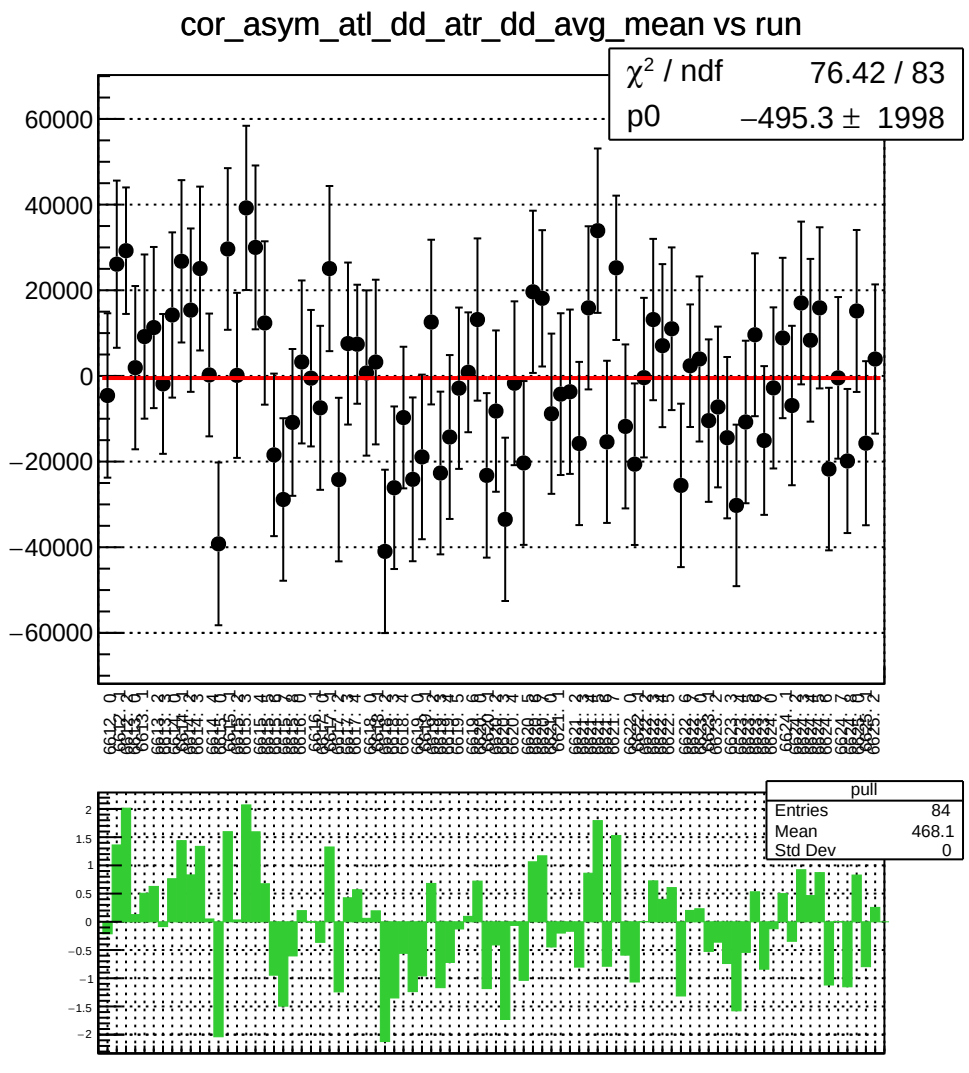

pull1D
Entries 84
Mean −0.01052
Std Dev 0.9538

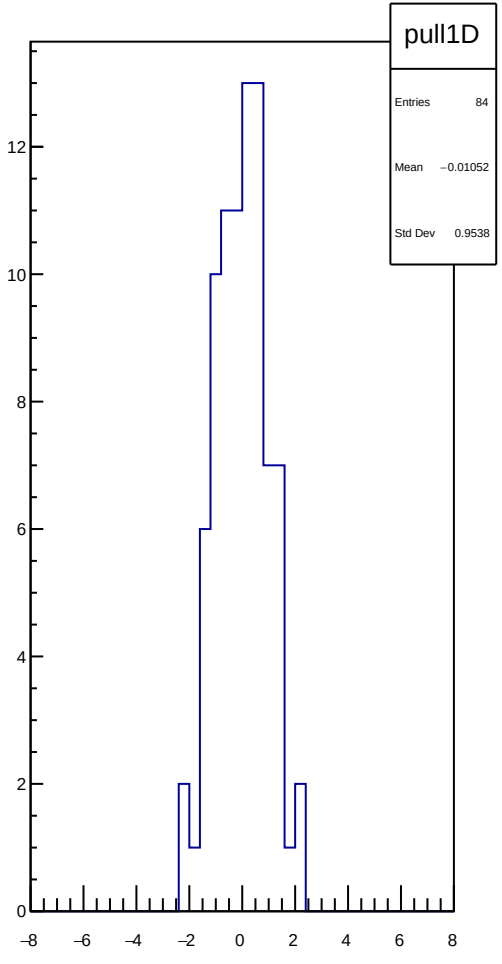

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 155.9 / 83
p0 1805 ± 1.413
1880
1860
1840
1820
1800
1780
1760
1740

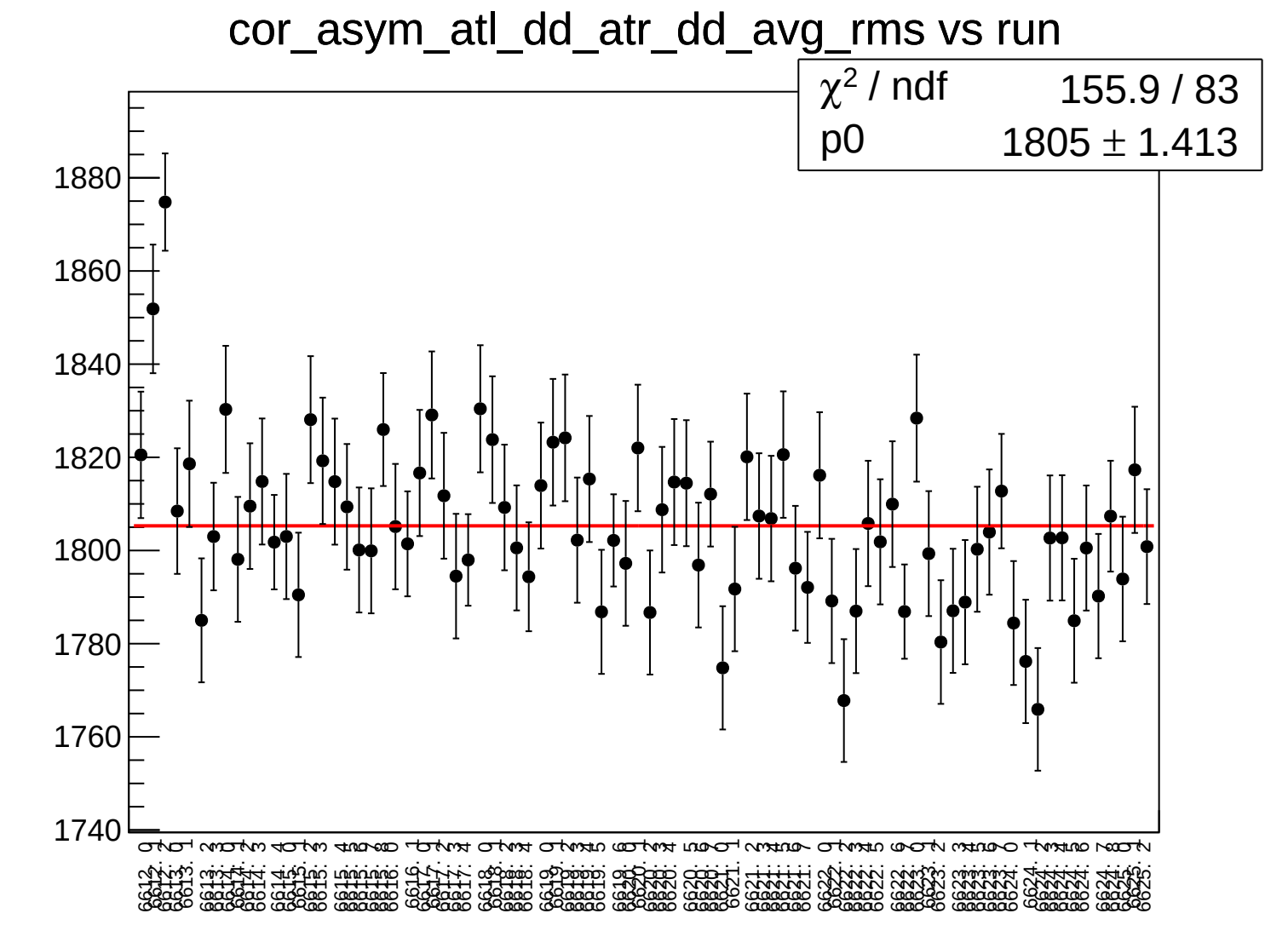

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
χ² / ndf 74.57 / 83
p0 −540.1± 1940
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −56.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

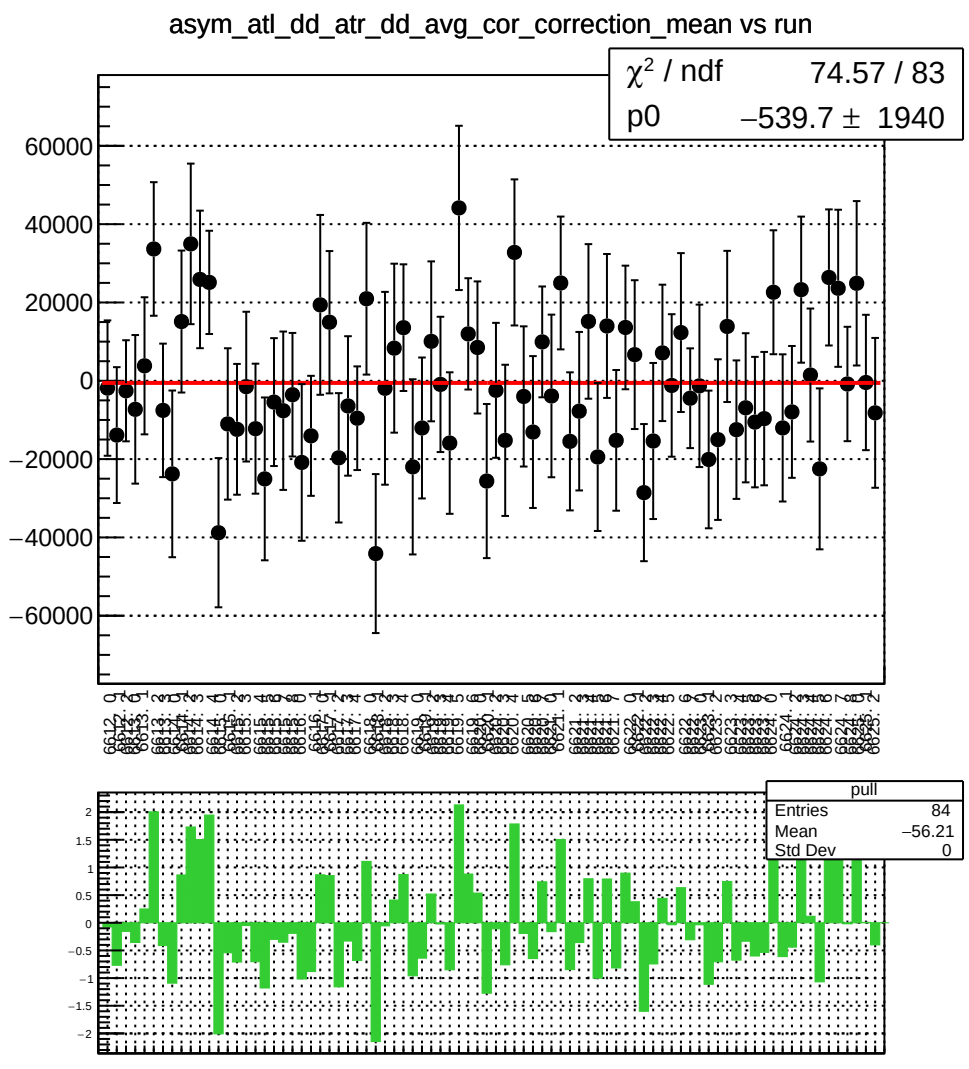

pull1D
Entries 84
Mean −0.01185
Std Dev 0.9421
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

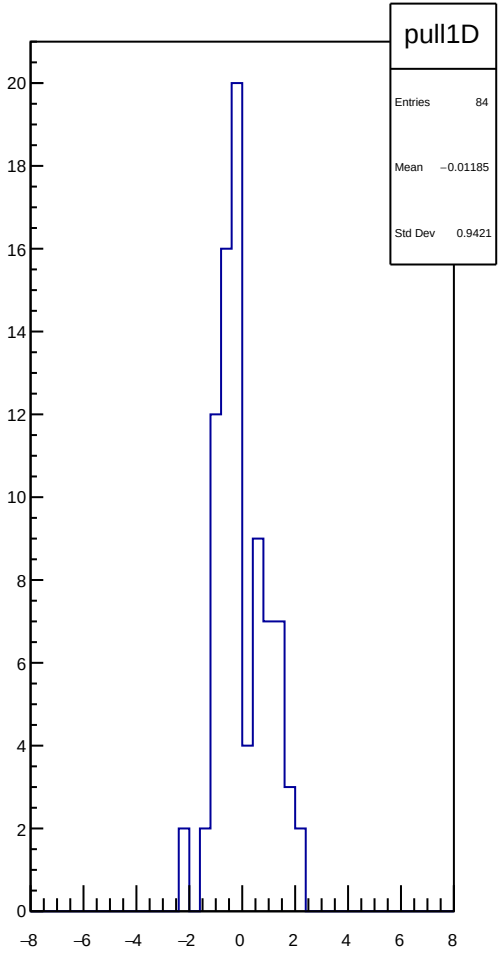

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.186e+04 / 83
p0 1746 ± 1.371
2400
2200
2000
1800
1600
1400

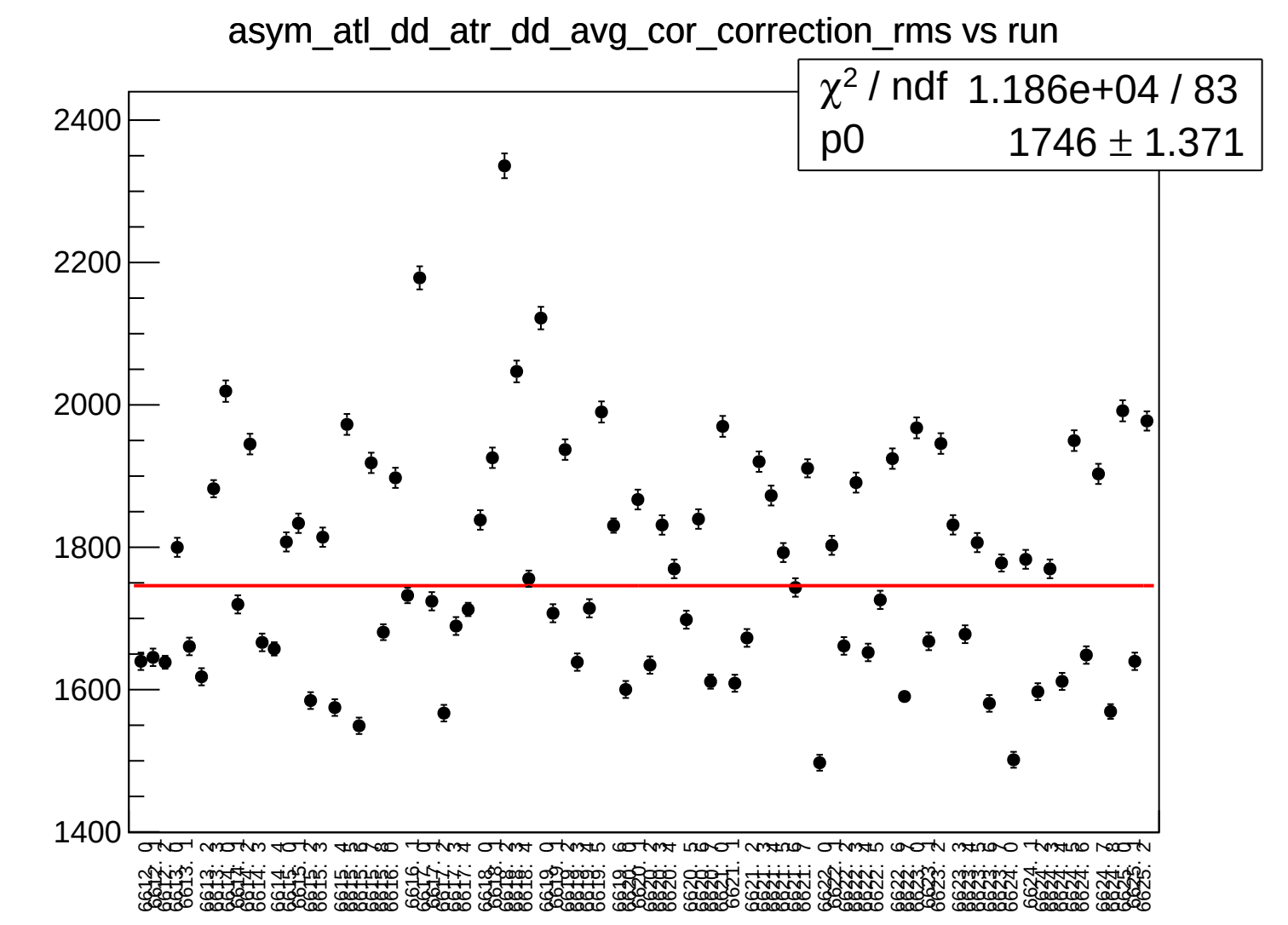

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 76.42 / 83
p0 −495.3 ± 1998
pull
Entries 84
Mean 468.1
Std Dev 0

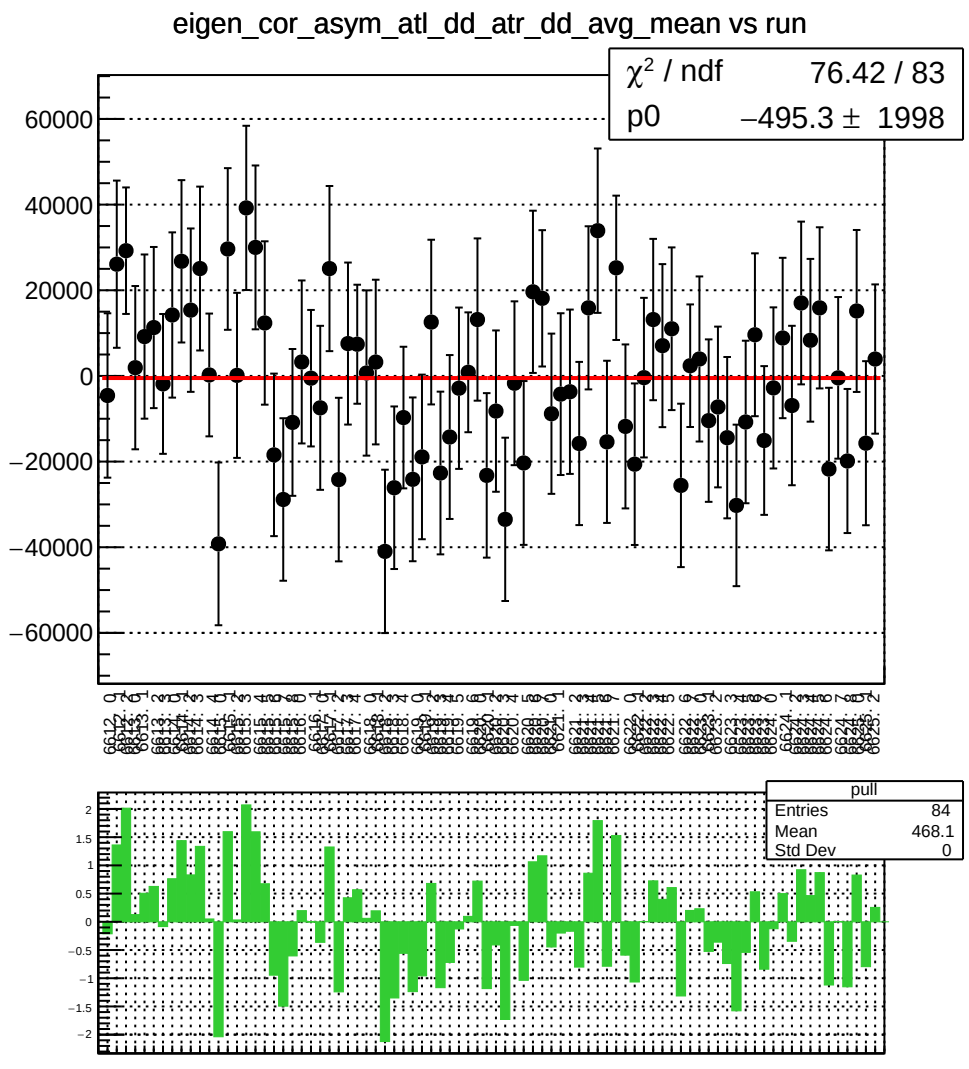

pull1D
Entries 84
Mean −0.01052
Std Dev 0.9538

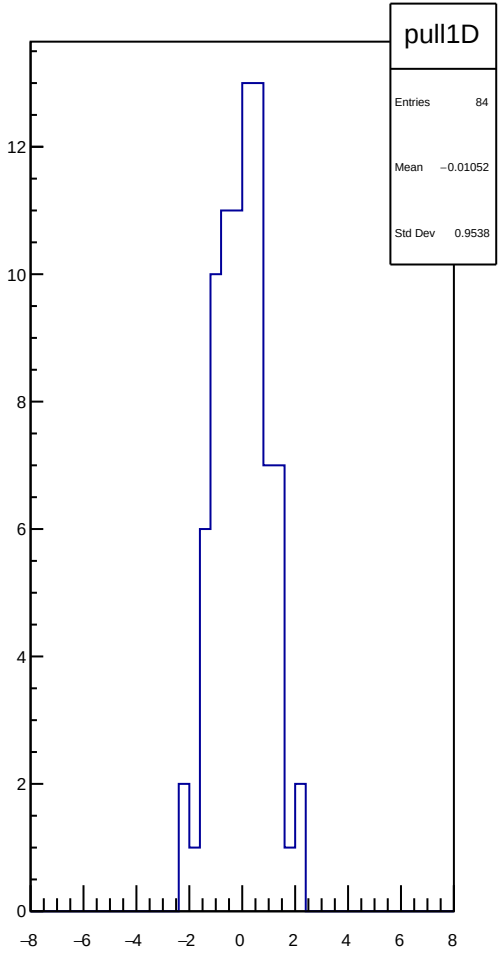

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 155.9 / 83
p0 1805 ± 1.413
1880
1860
1840
1820
1800
1780
1760
1740

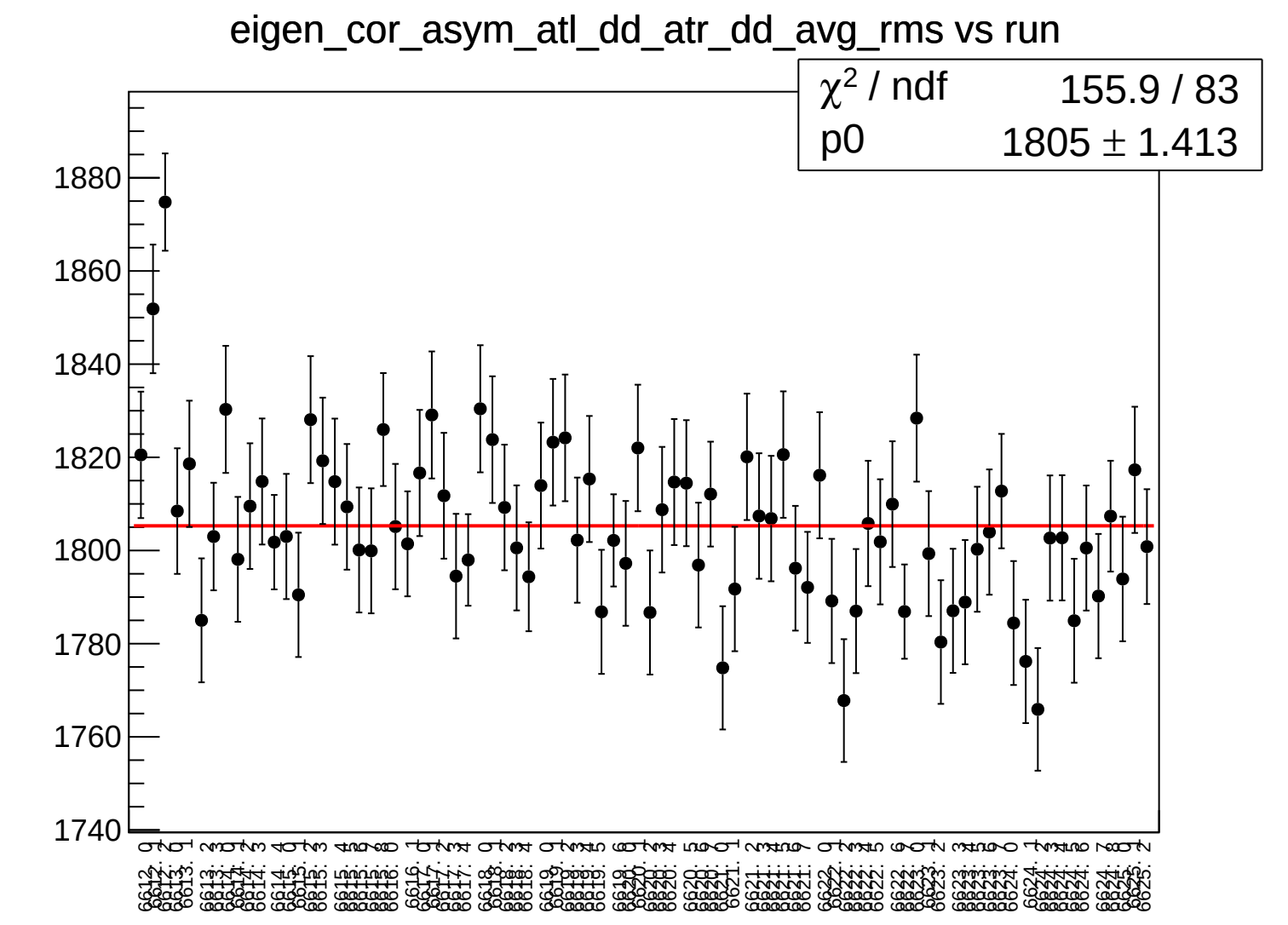

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
χ² / ndf 74.57 / 83
p0 −539.7 ± 1940
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −56.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

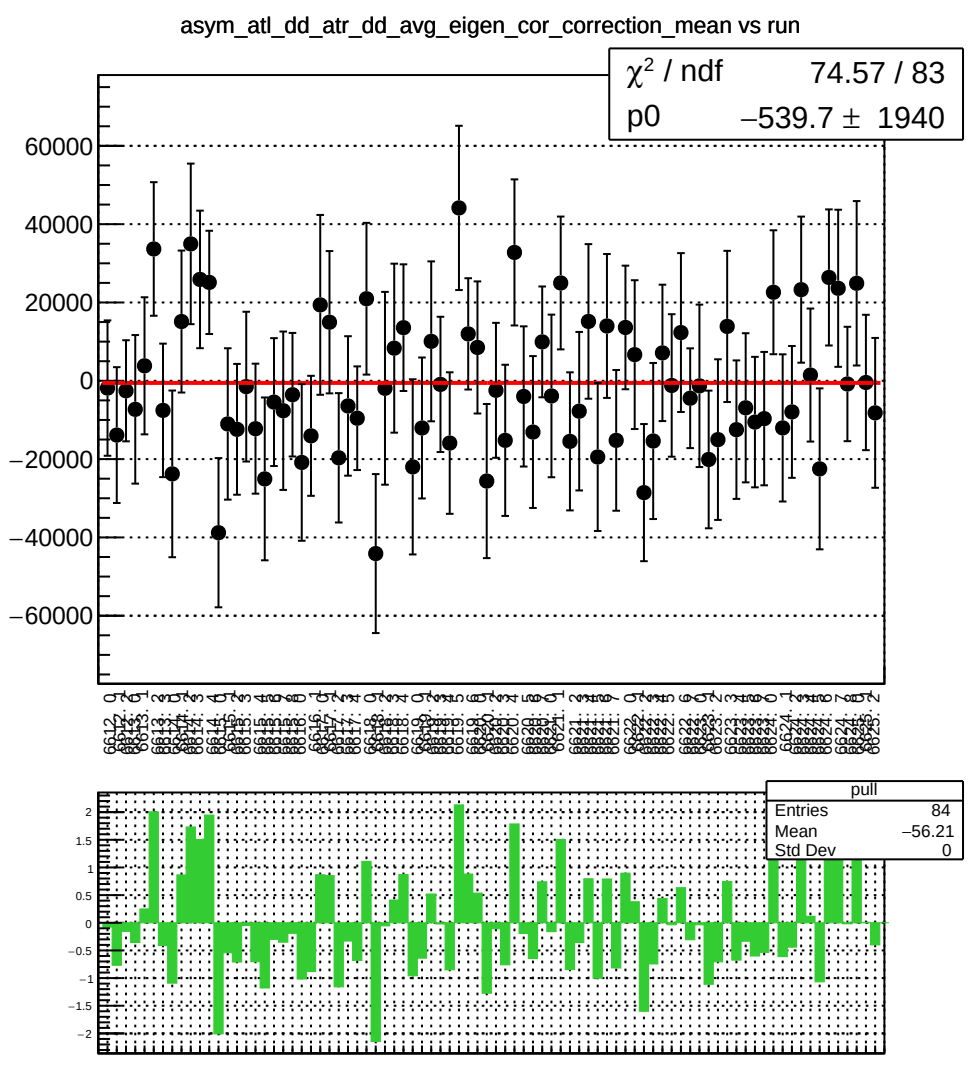

pull1D
Entries 84
Mean −0.01185
Std Dev 0.9421
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

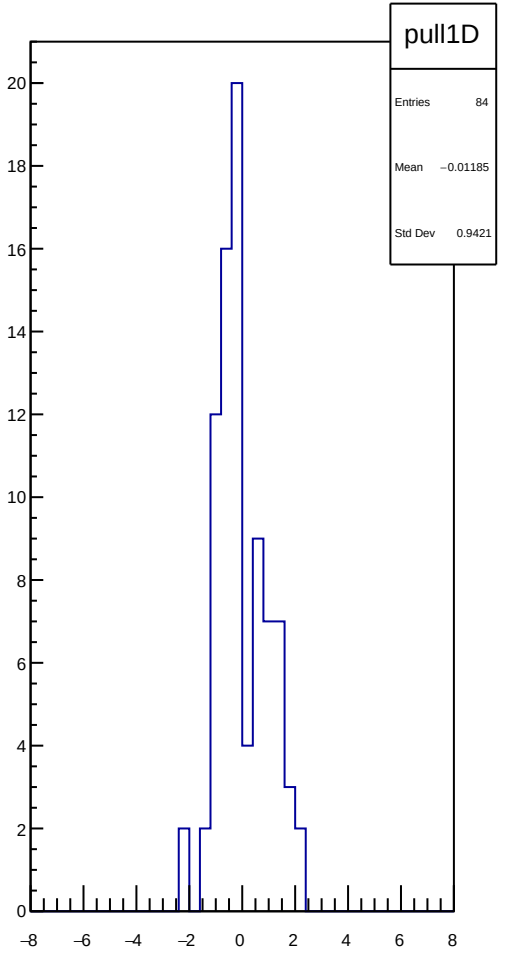

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.186e+04 / 83
p0 1746 ± 1.371
2400
2200
2000
1800
1600
1400

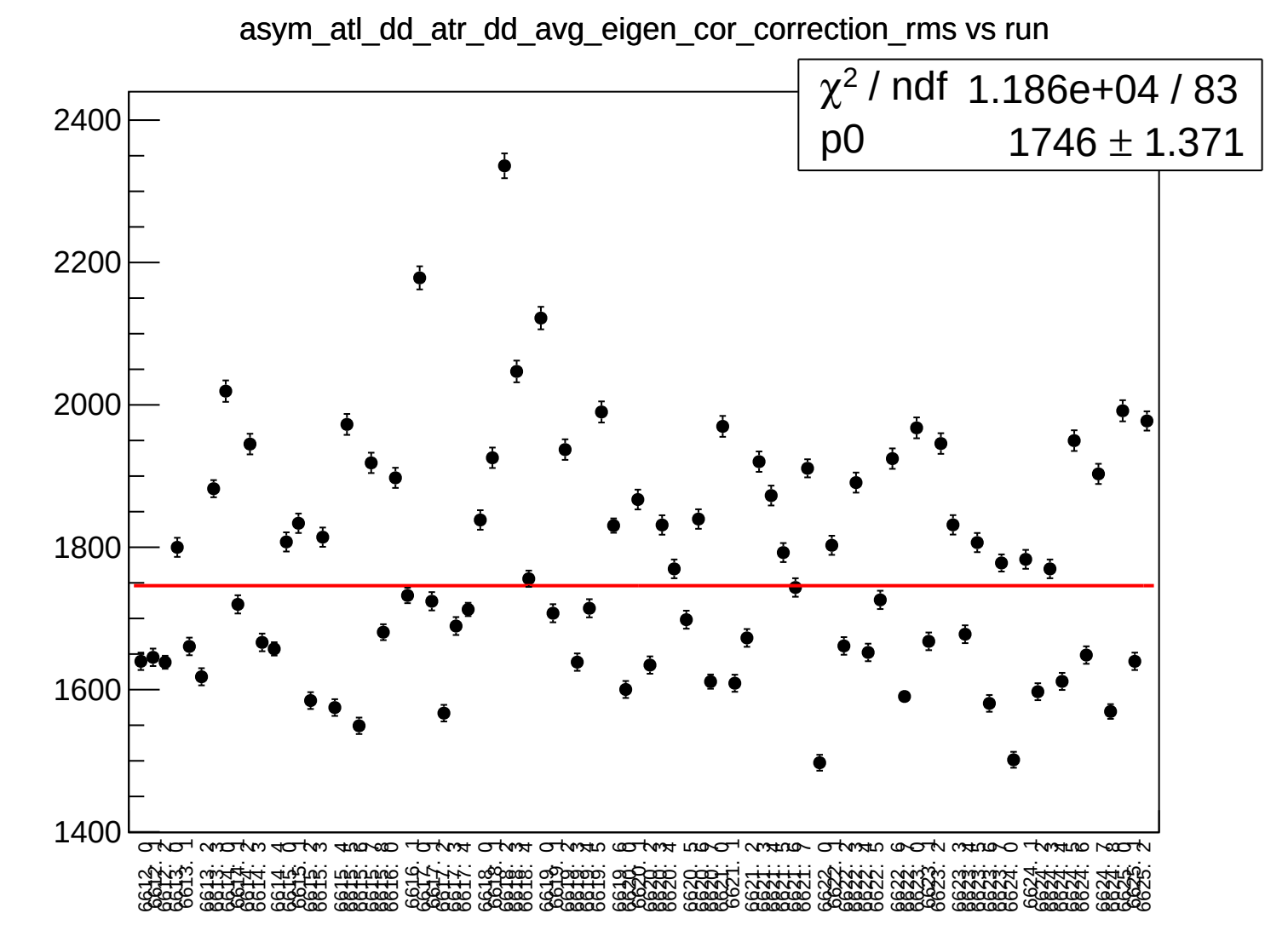

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 76.42 / 83
p0 −495.3 ± 1998
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 468.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

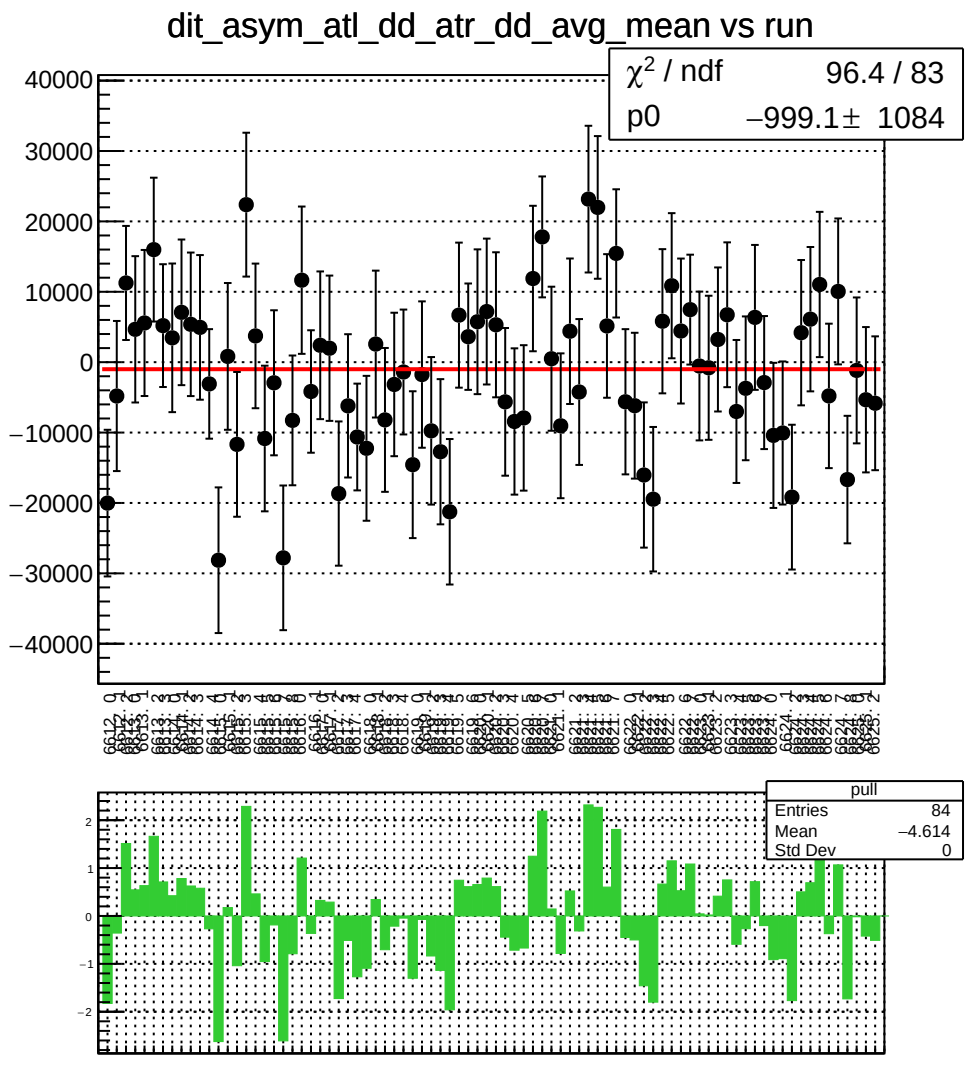

pull1D
Entries 84
Mean −0.01052
Std Dev 0.9538
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

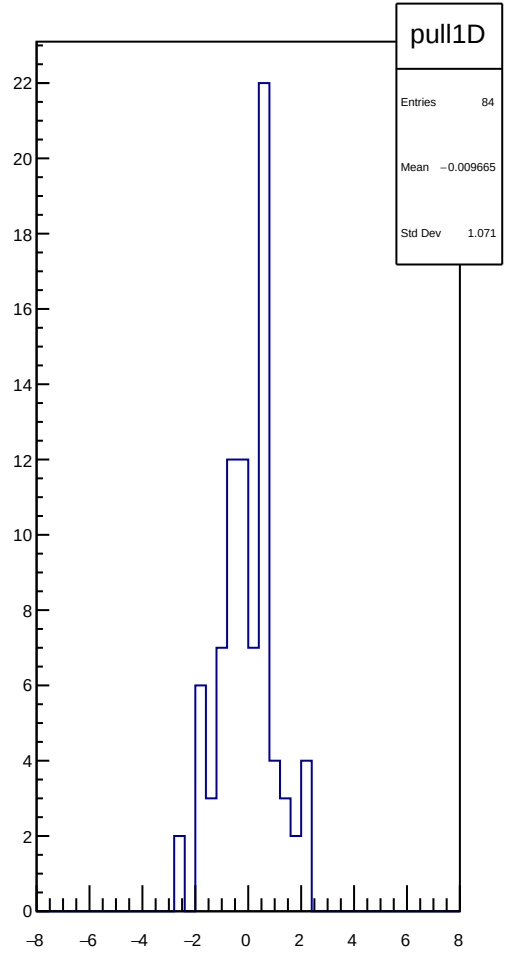

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 155.9 / 83
p0 1805 ± 1.413
1880
1860
1840
1820
1800
1780
1760
1740

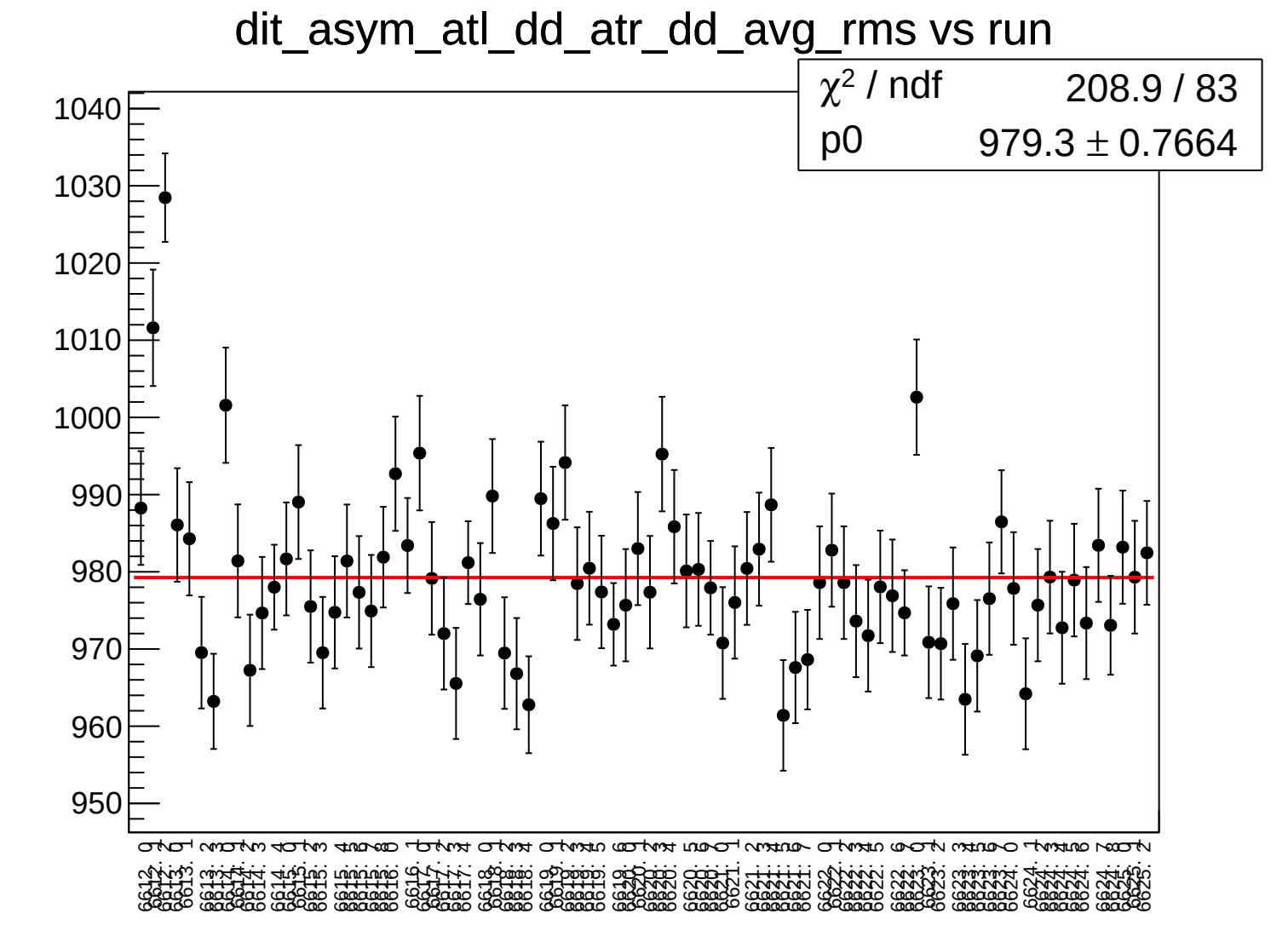

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.57 / 83
p0 −539.7 ± 1940
pull
Entries 84
Mean −56.21
Std Dev 0

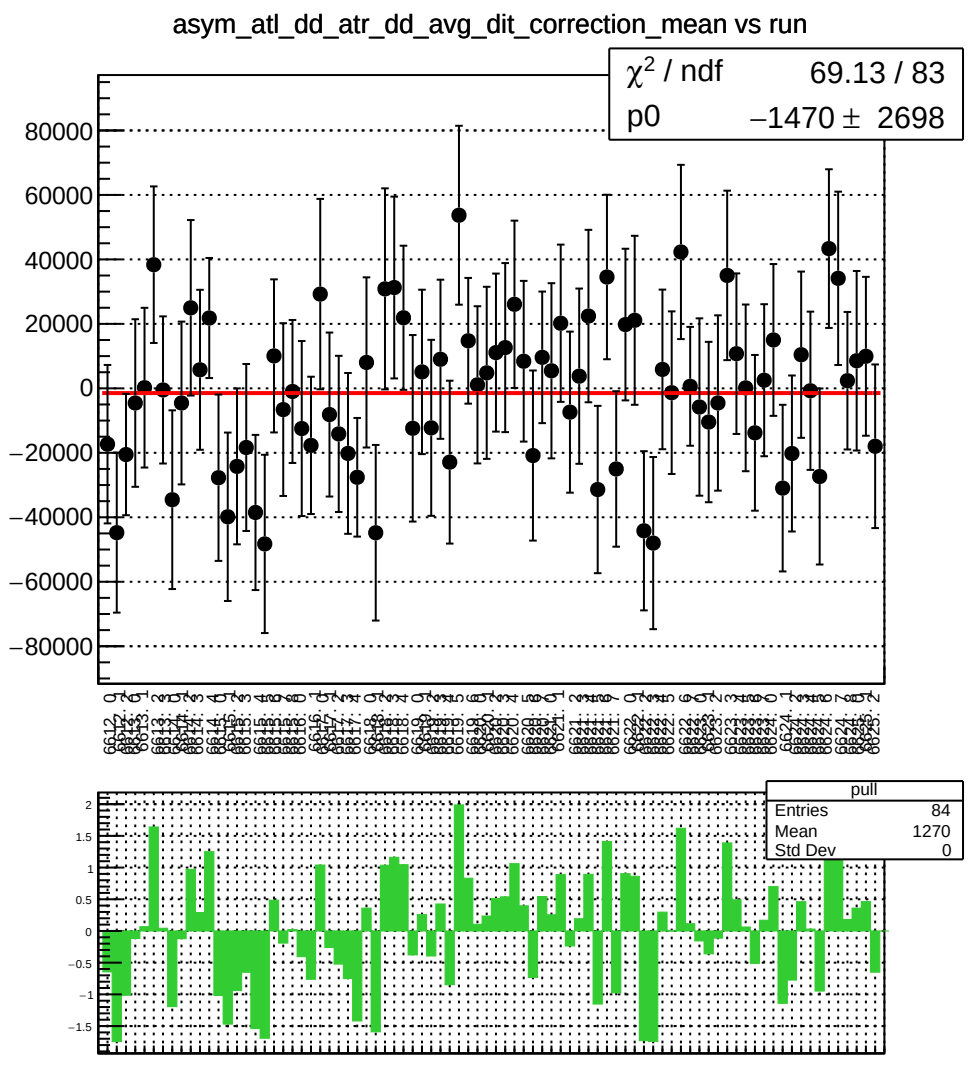

pull1D
Entries 84
Mean −0.01185
Std Dev 0.9421

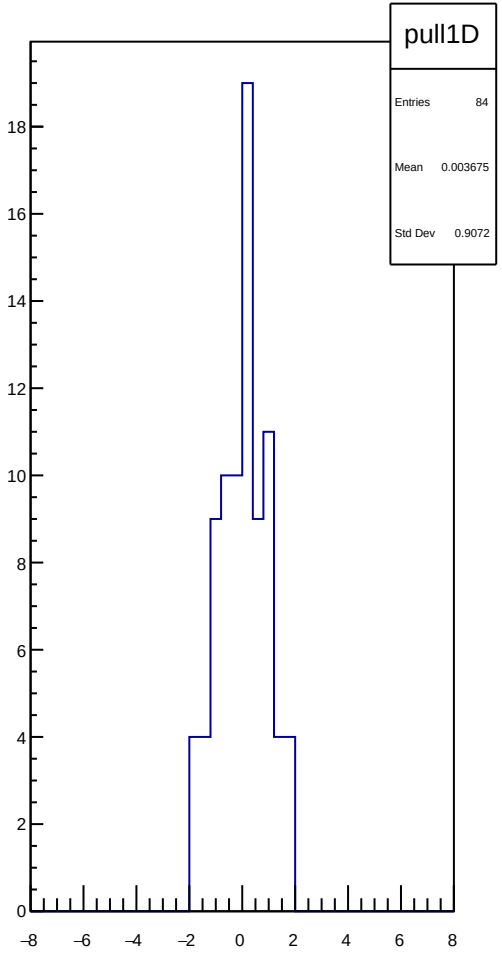

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.186e+04 / 83
p0 1746 ± 1.371
2400
2200
2000
1800
1600
1400

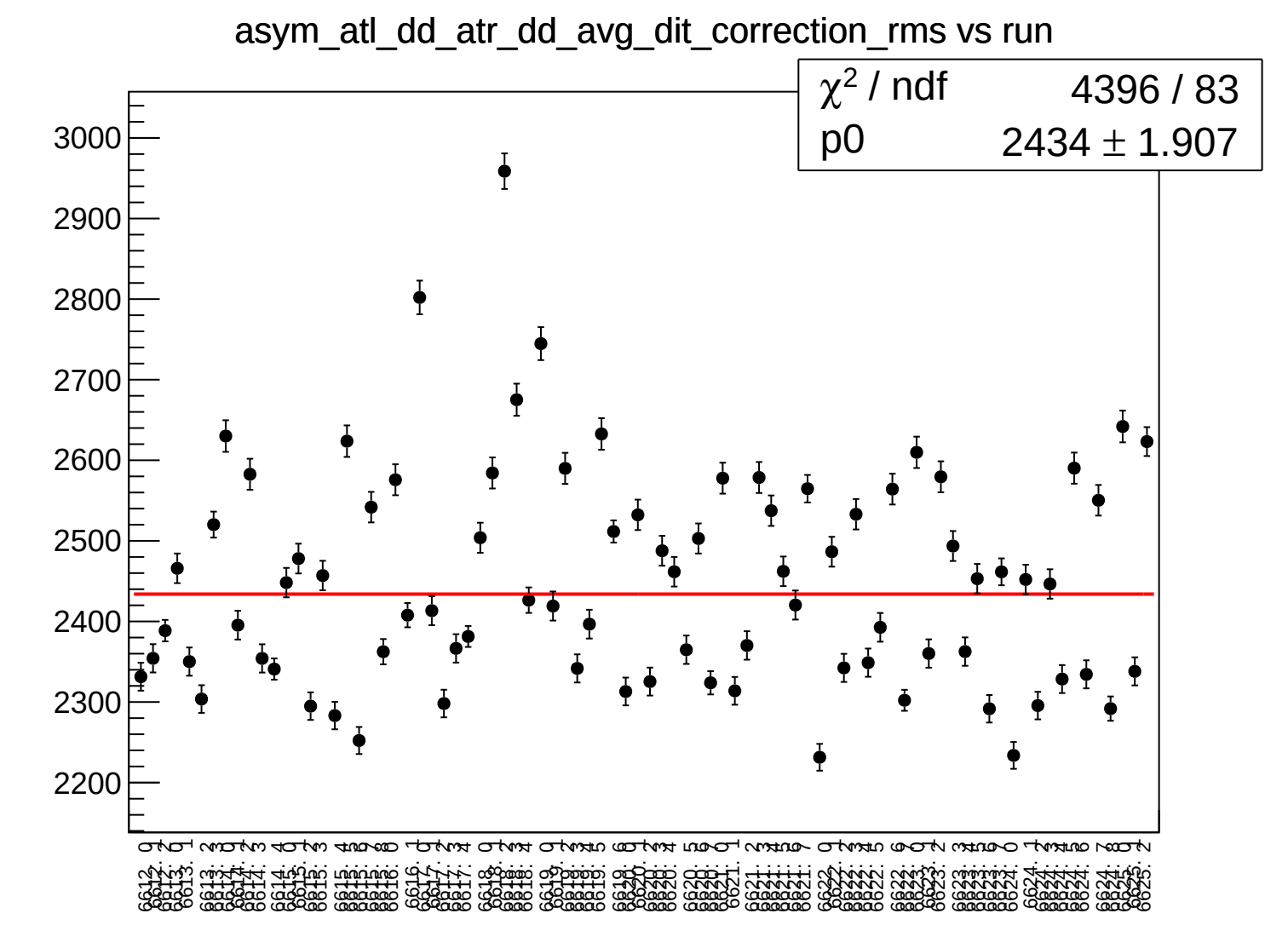

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 96.4 / 83
p0 −999.1± 1084
pull
Entries 84
Mean −4.614
Std Dev 0

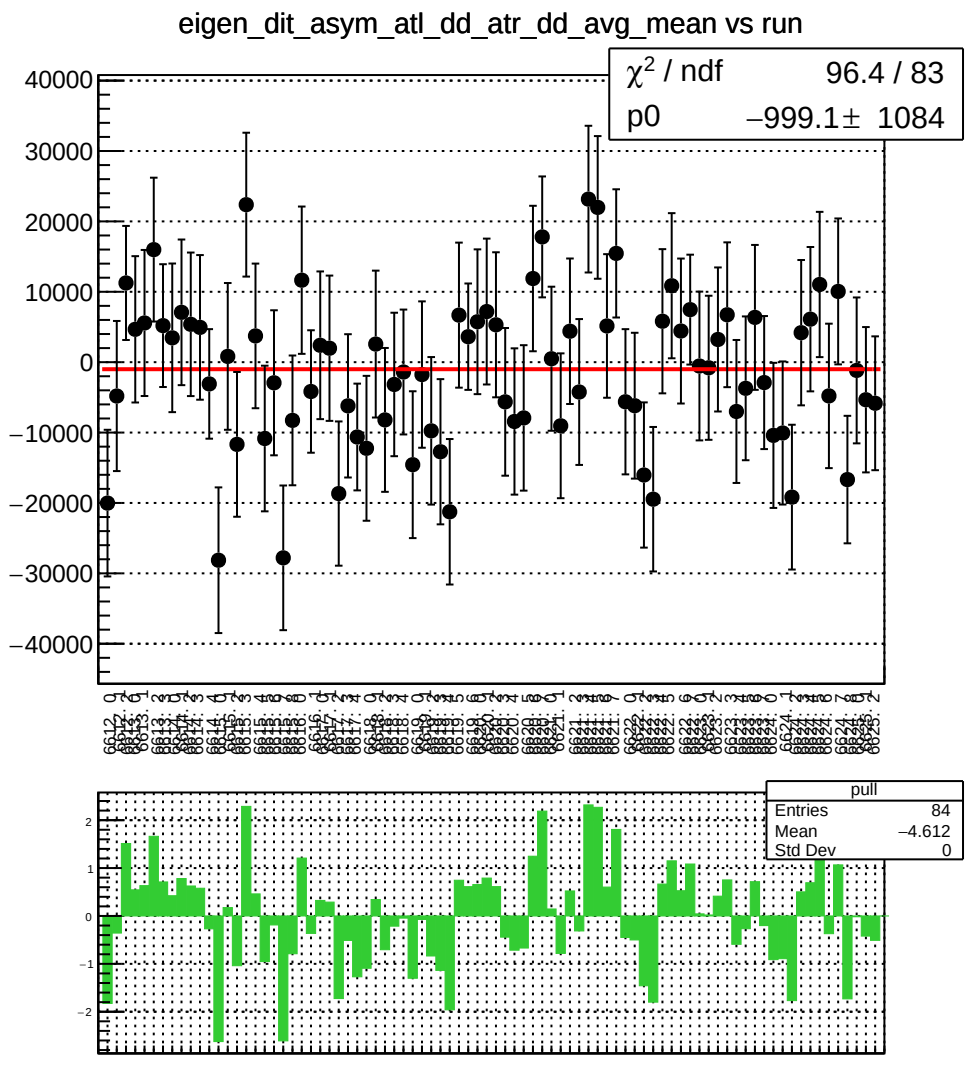

pull1D
Entries 84
Mean −0.009665
Std Dev 1.071

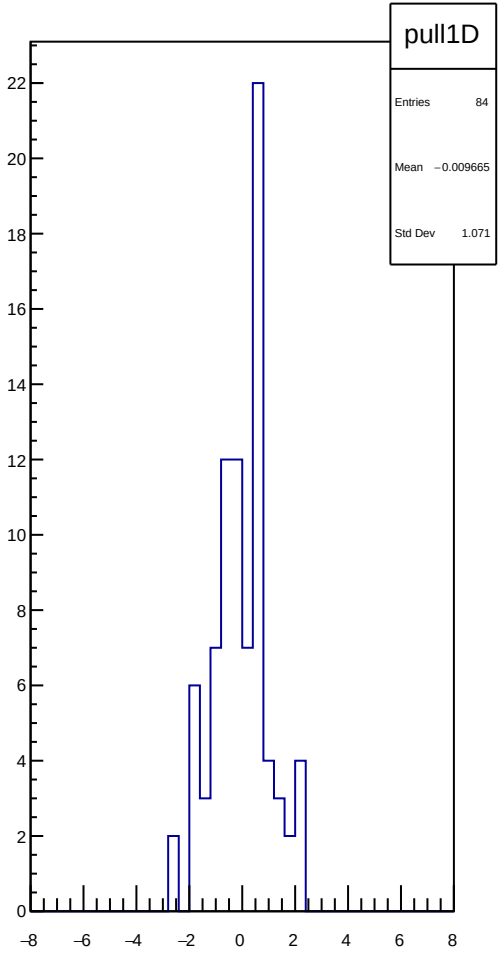

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 208.9 / 83
p0 979.3 ± 0.7664
1040
1030
1020
1010
1000
990
980
970
960
950

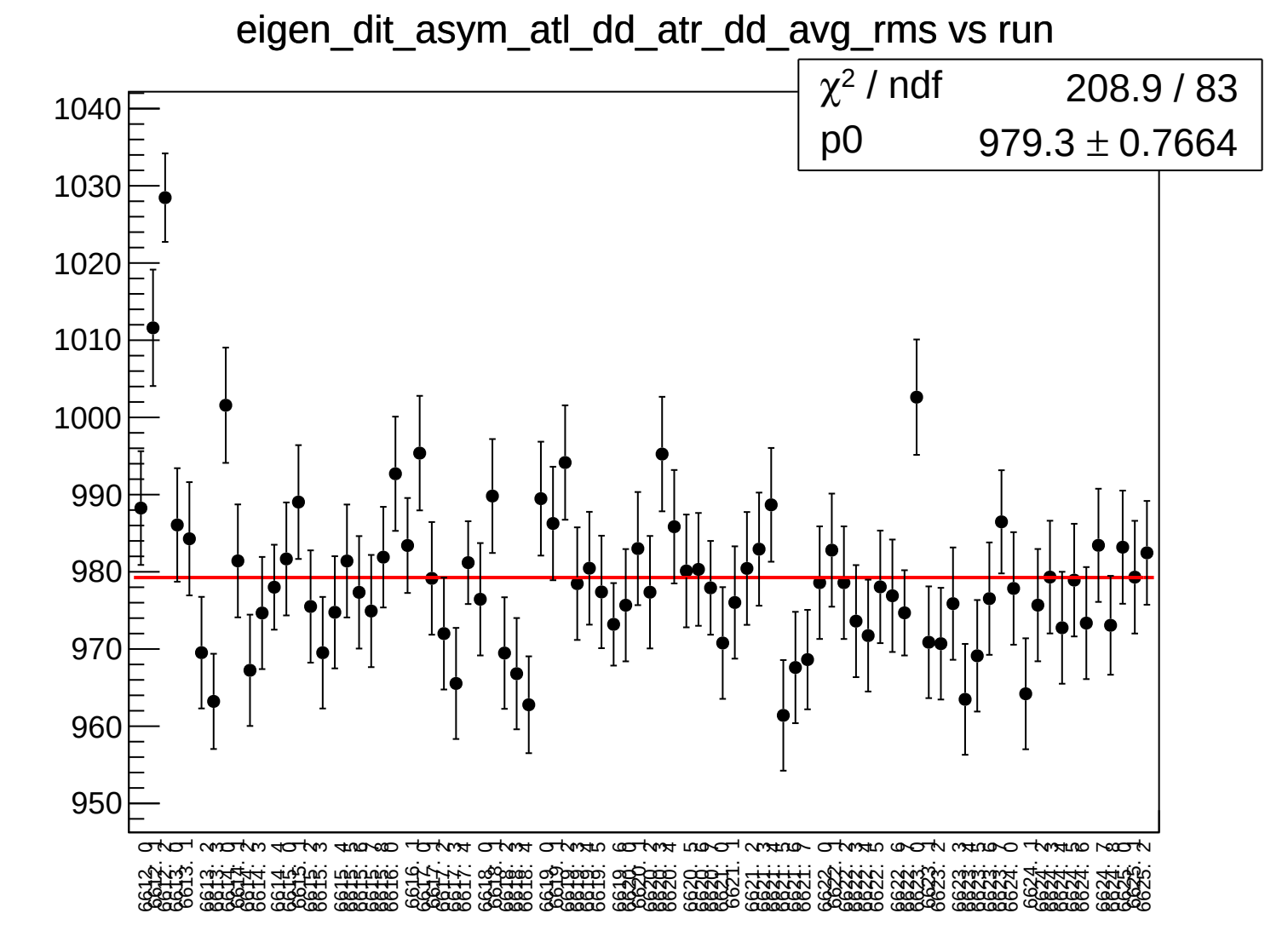

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
χ² / ndf 69.13 / 83
p0 −1470 ± 2698
pull
Entries 84
Mean 1270
Std Dev 0

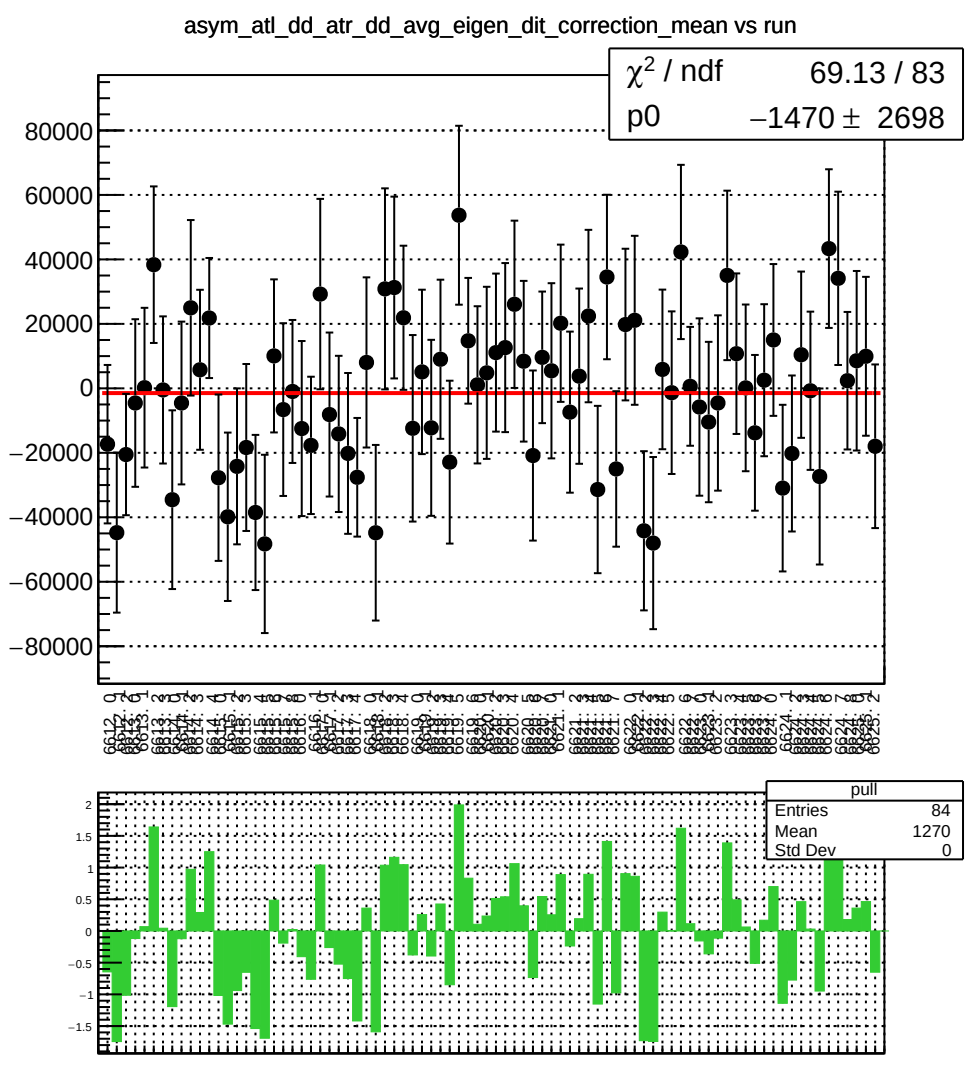

pull1D
Entries 84
Mean 0.003675
Std Dev 0.9072

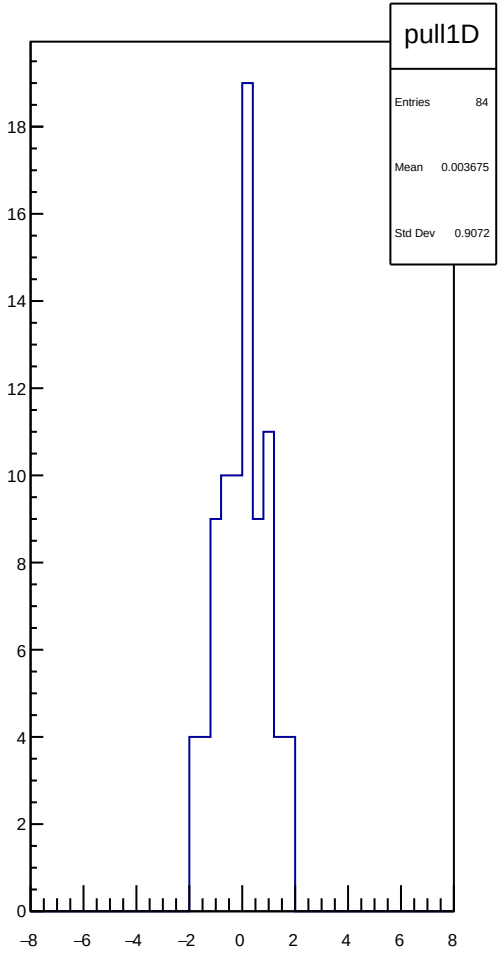

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 4396 / 83
p0 2434 ± 1.907
3000
2900
2800
2700
2600
2500
2400
2300
2200

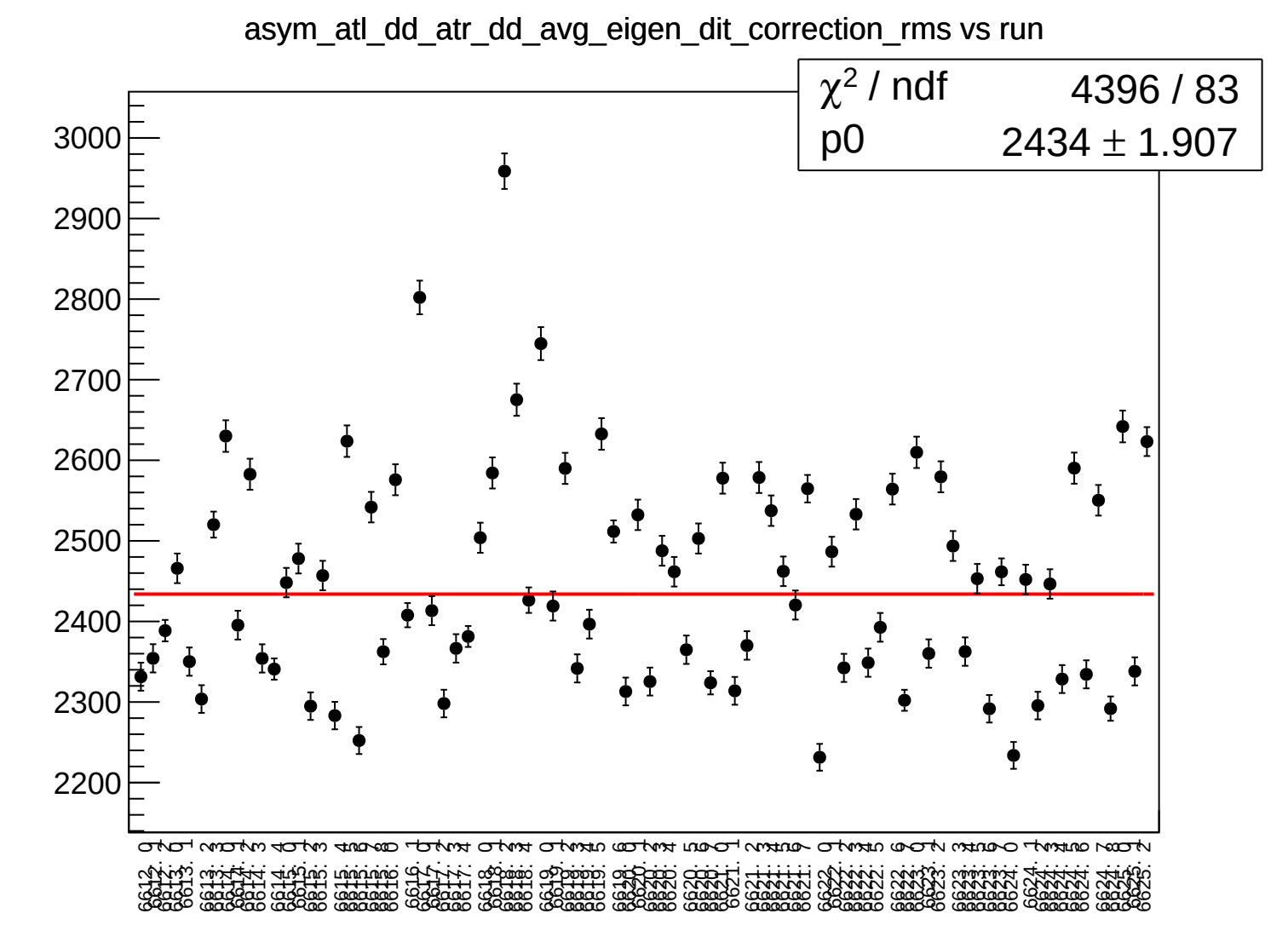

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 96.4 / 83
p0 −999.1± 1084
pull
Entries 84
Mean −4.612
Std Dev 0

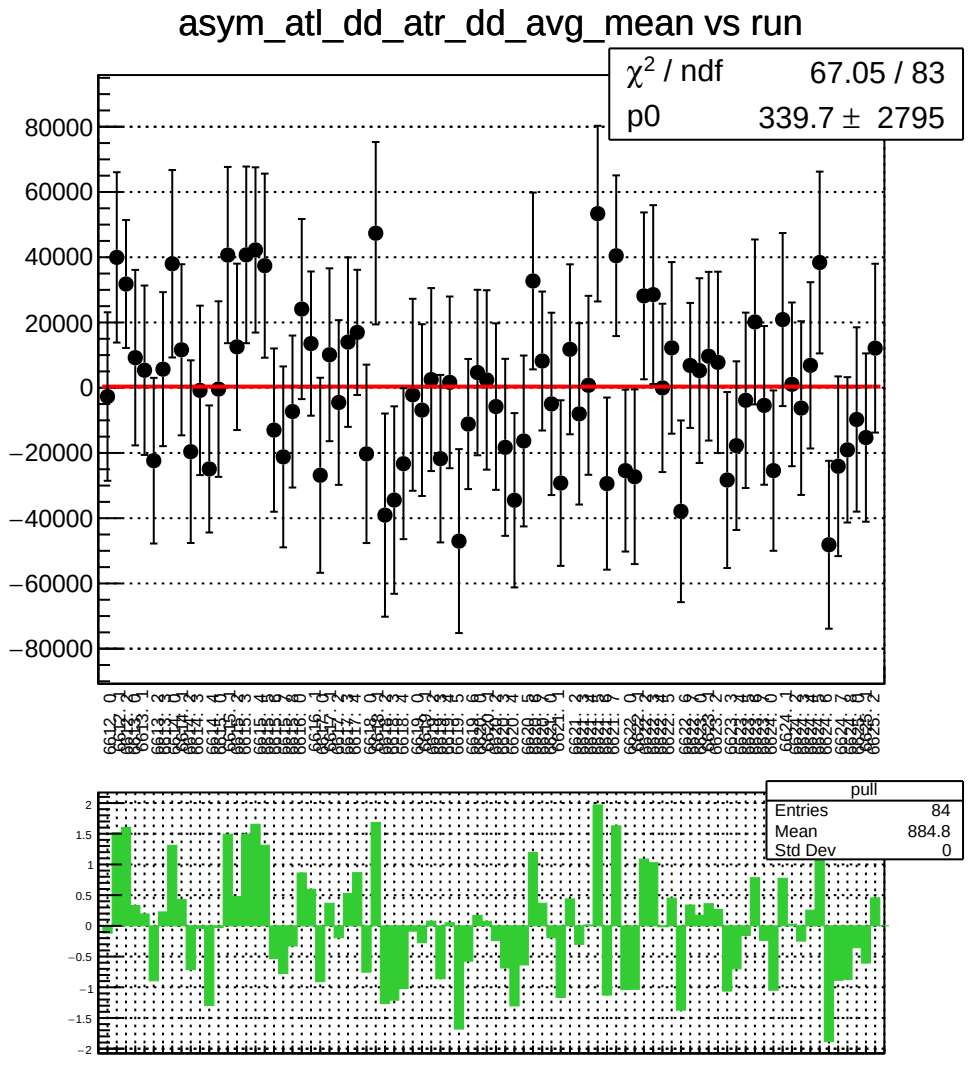

pull1D
Entries 84
Mean −0.009665
Std Dev 1.071

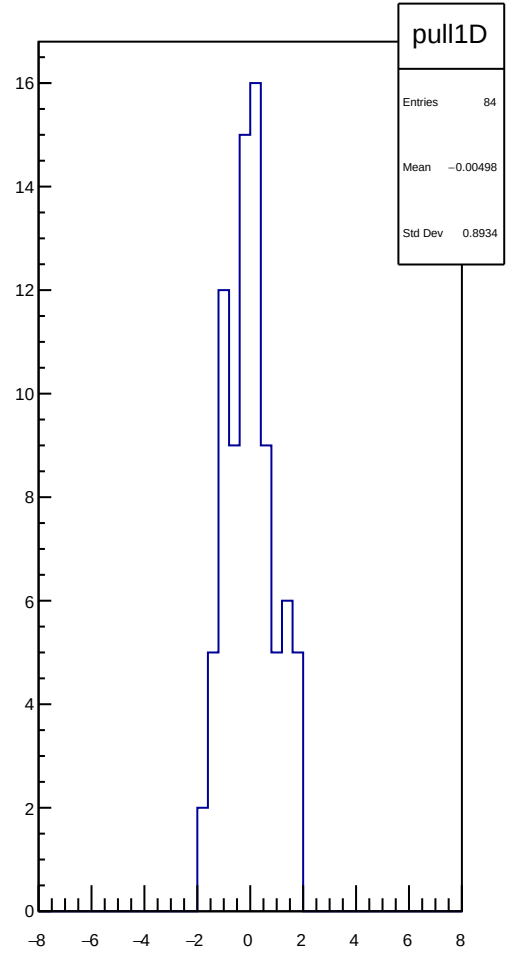

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 208.9 / 83
p0 979.3 ± 0.7664
1040
1030
1020
1010
1000
990
980
970
960
950

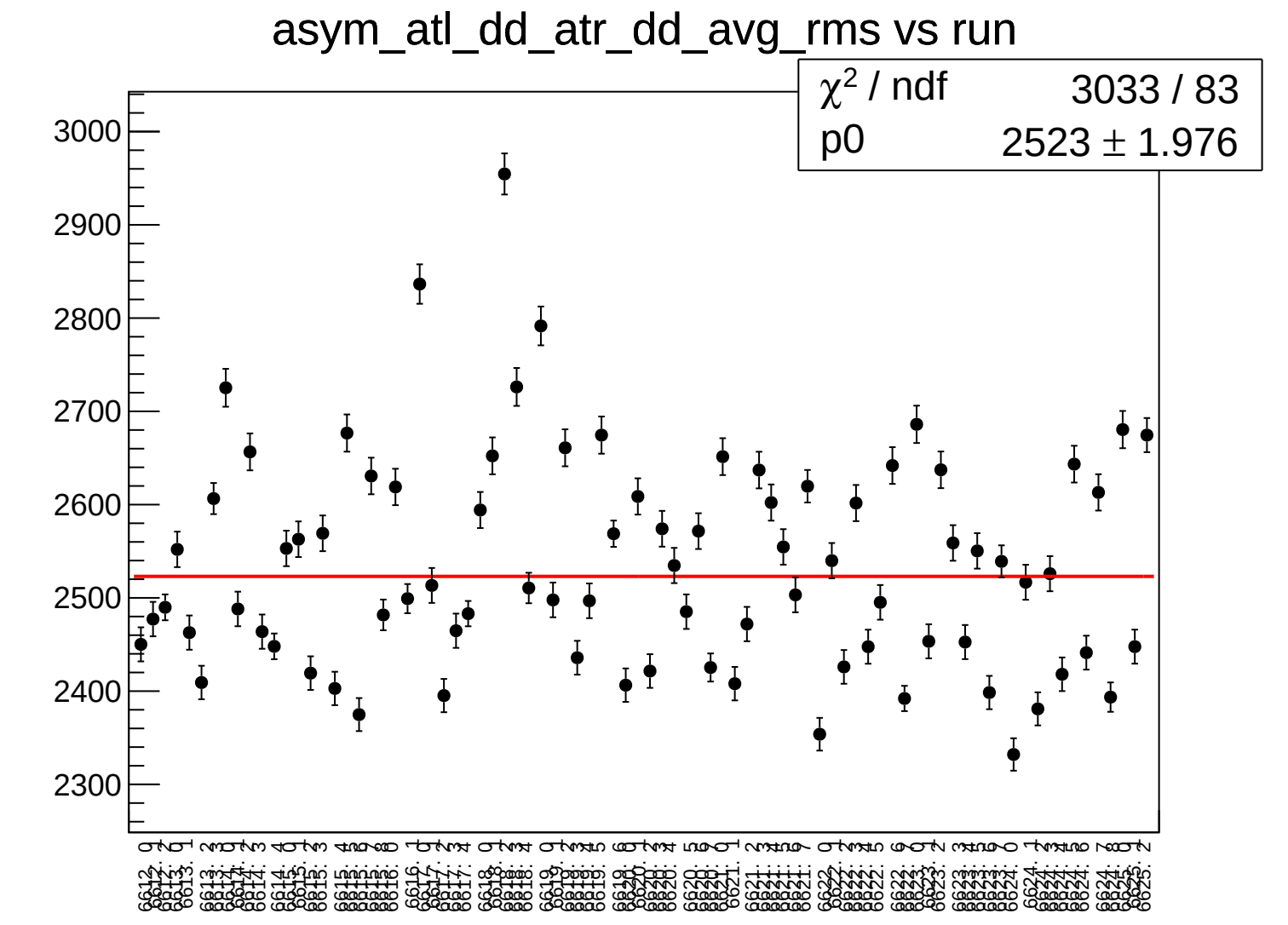

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.13 / 83
p0 −1470 ± 2698
pull
Entries 84
Mean 1270
Std Dev 0

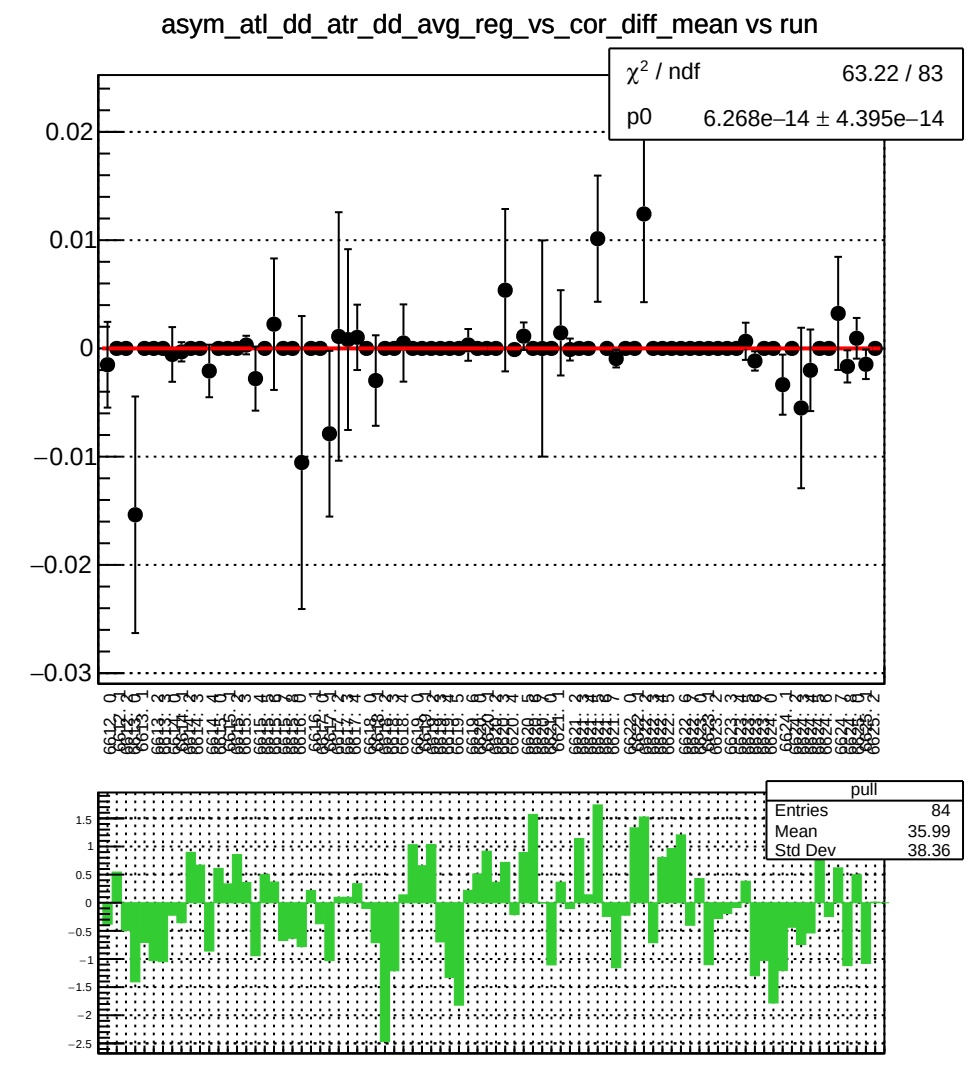

pull1D
Entries 84
Mean 0.003675
Std Dev 0.9072

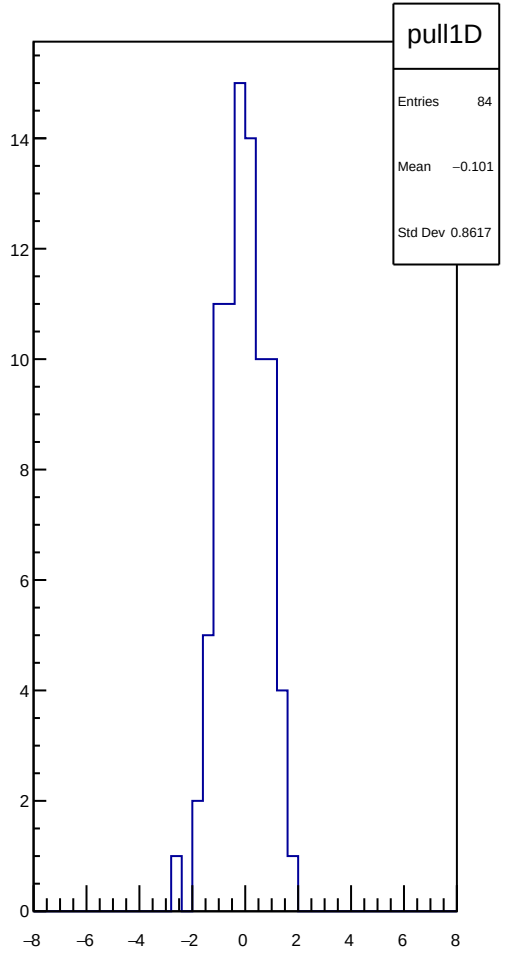

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4396 / 83
p0 2434 ± 1.907
3000
2900
2800
2700
2600
2500
2400
2300
2200

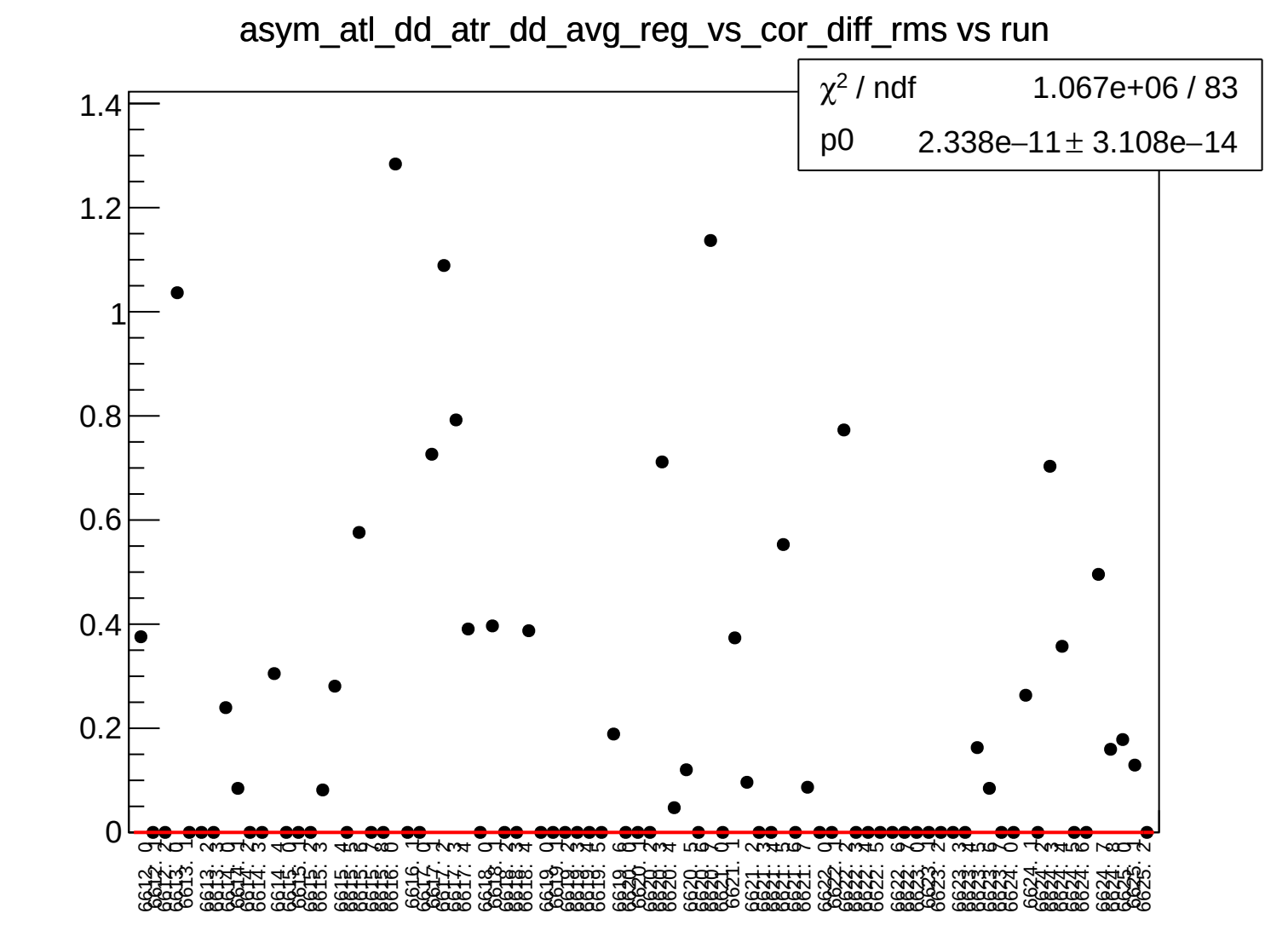

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 67.05 / 83
p0 339.7 ± 2795
pull
Entries 84
Mean 884.8
Std Dev 0

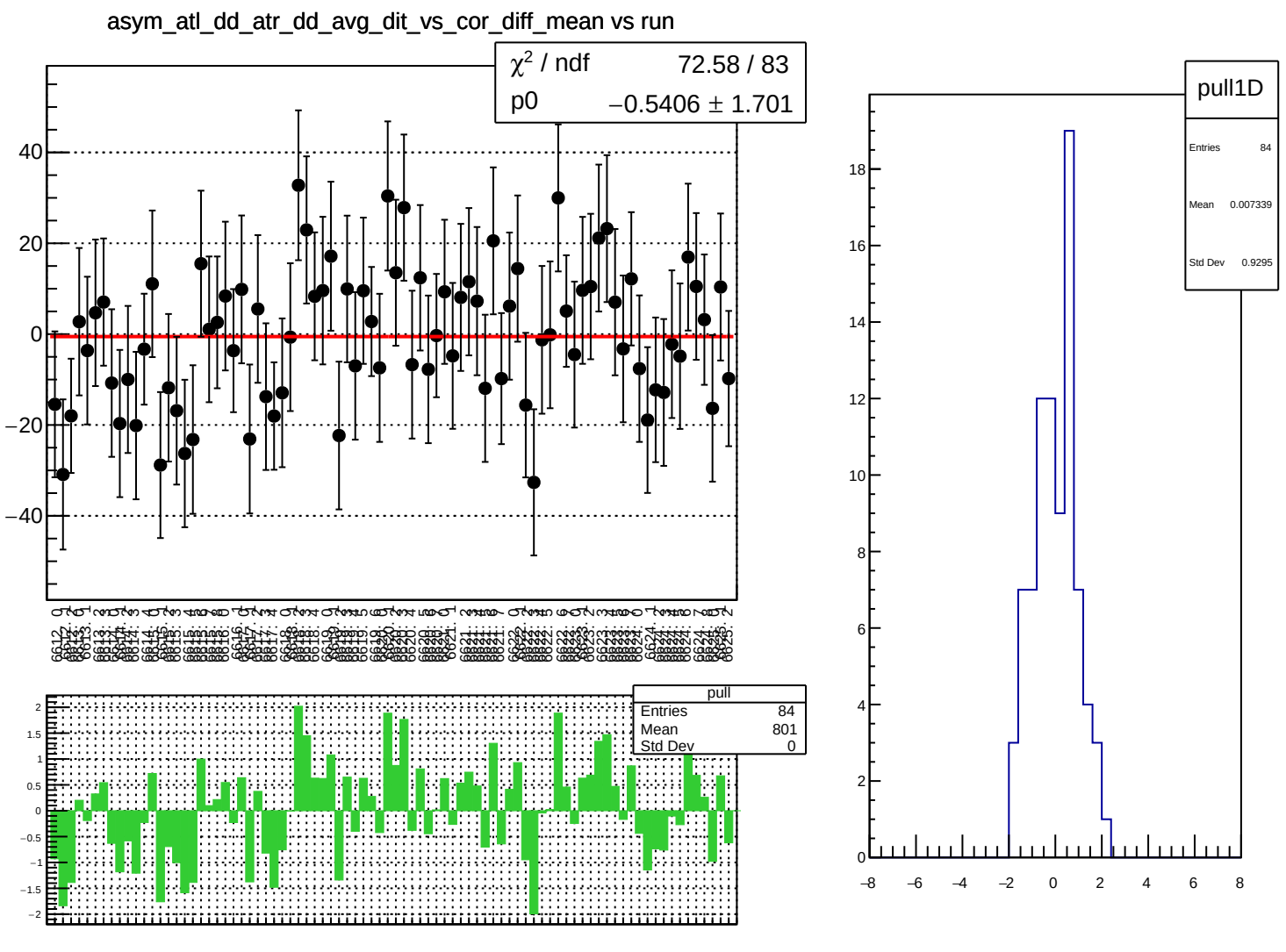

pull1D
Entries 84
Mean −0.00498
Std Dev 0.8934

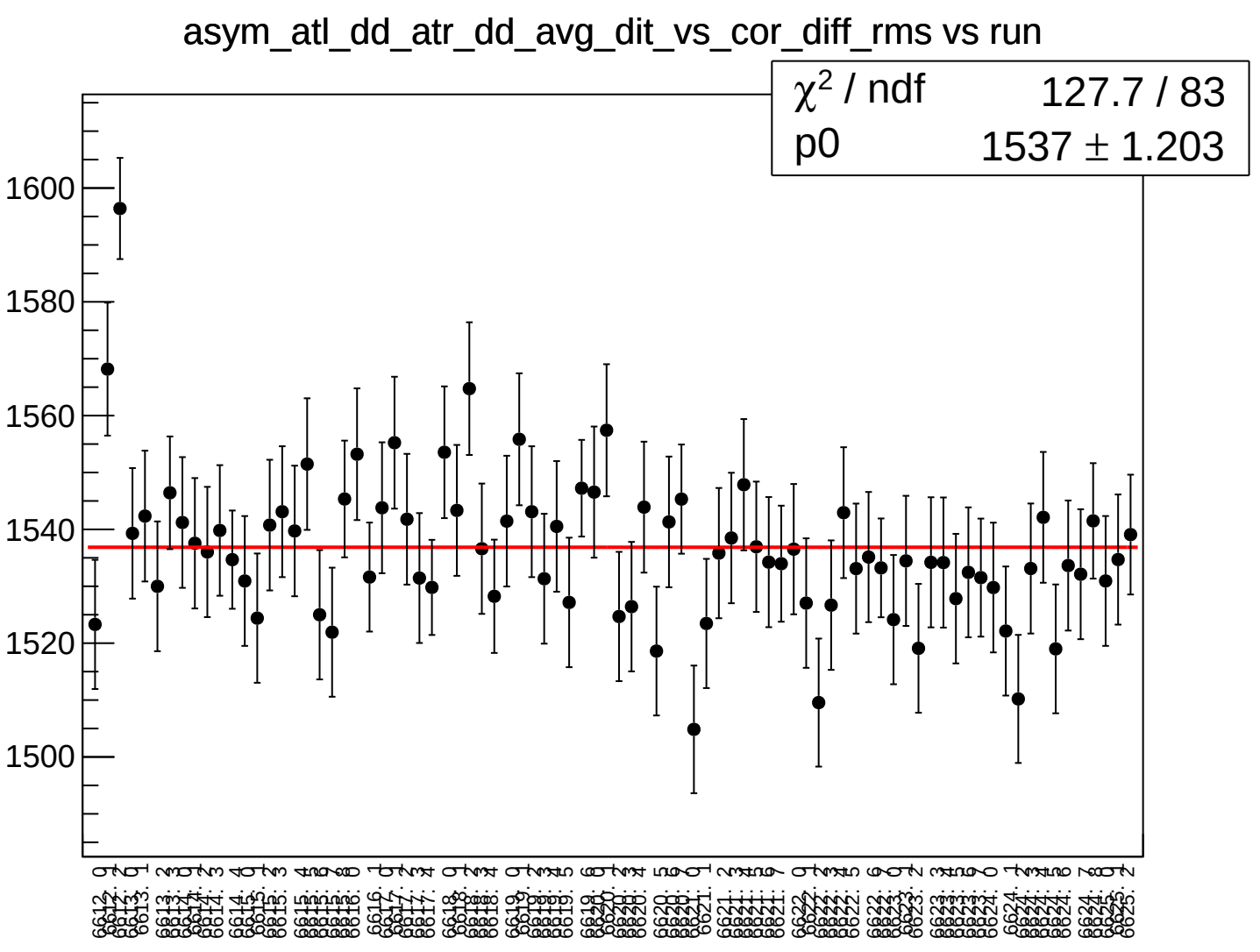

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3033 / 83
p0 2523 ± 1.976
3000
2900
2800
2700
2600
2500
2400
2300

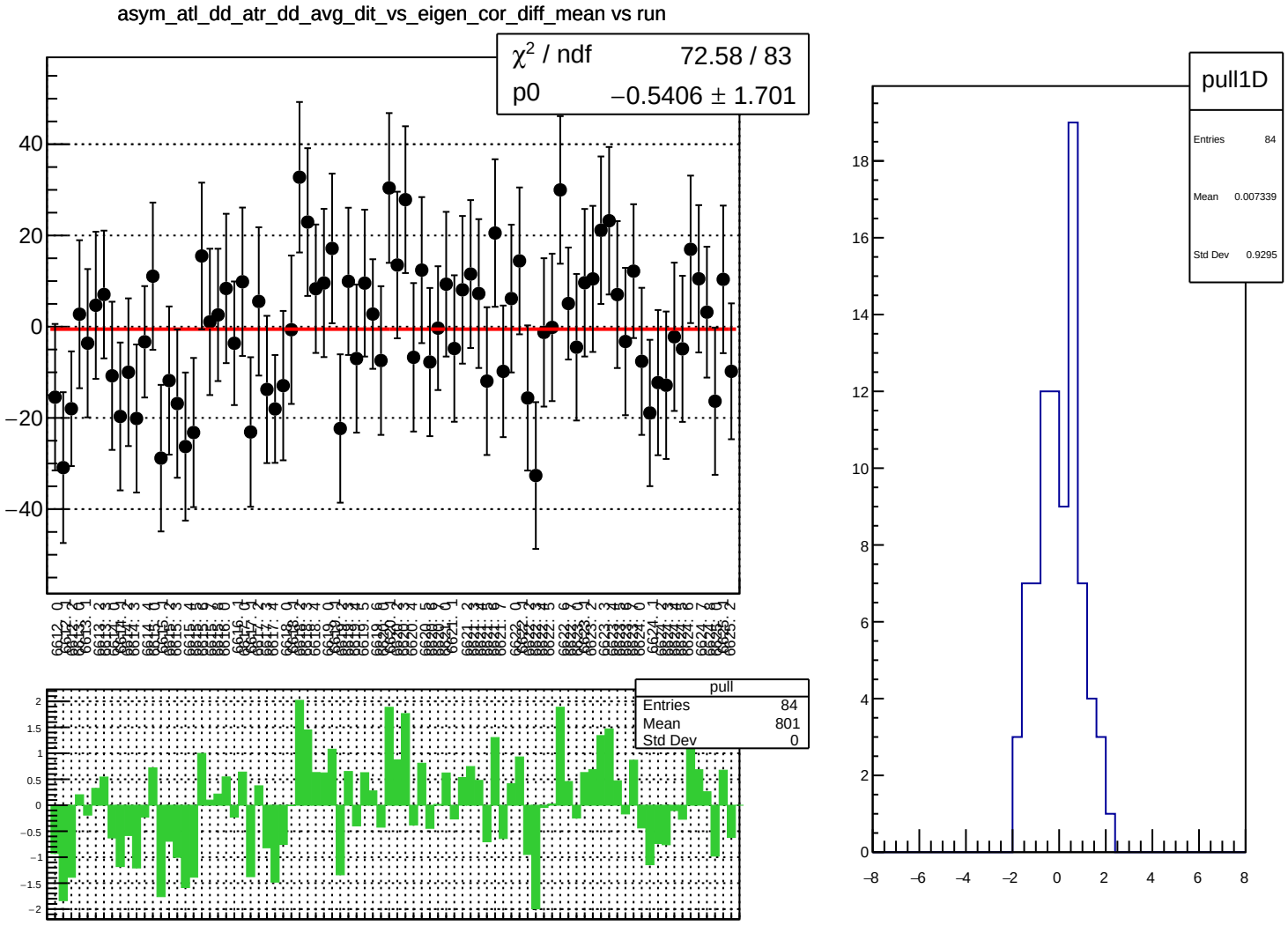

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 63.22 / 83
p0 6.268e−14 ± 4.395e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean 35.99
Std Dev 38.36
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

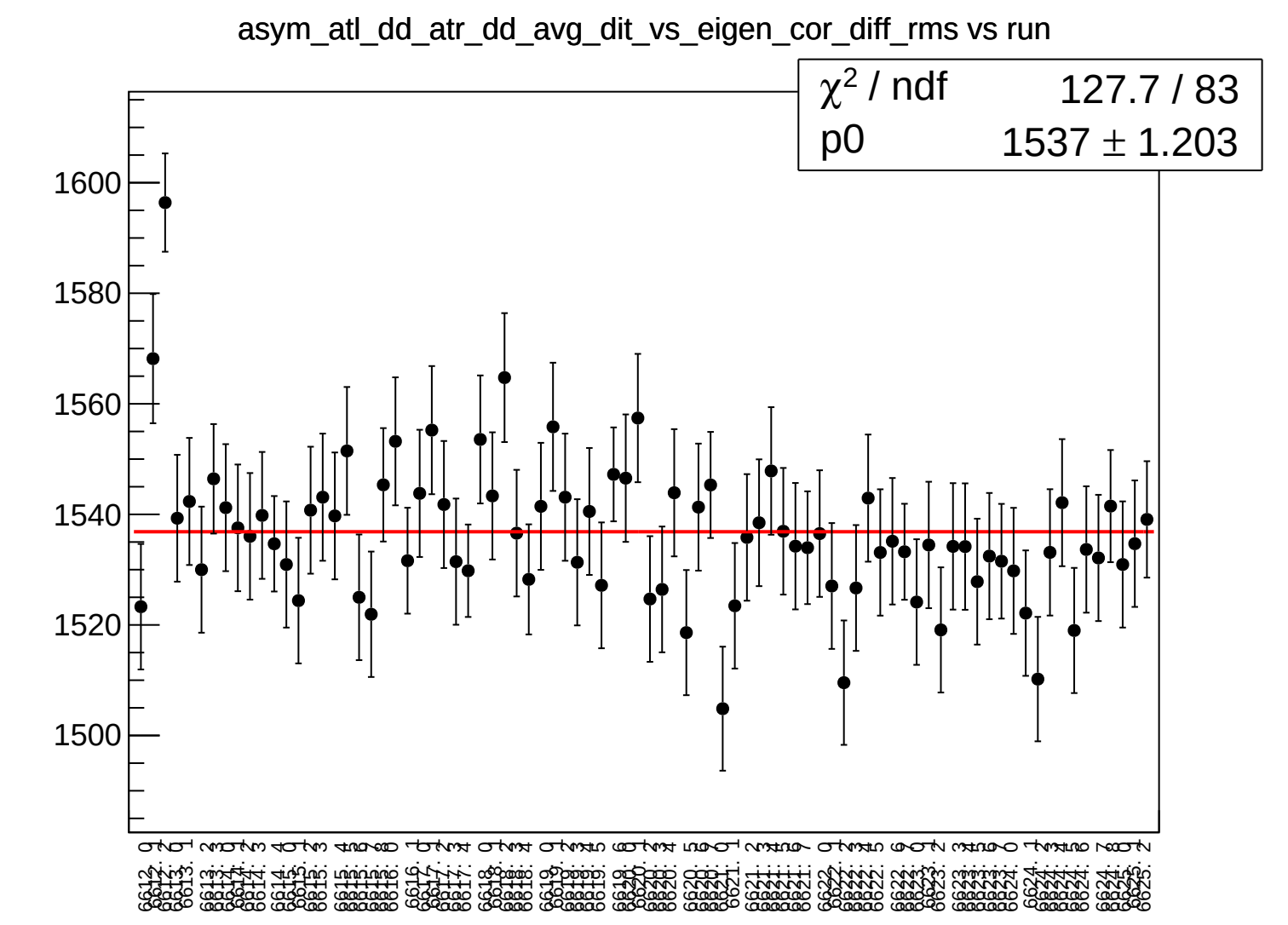

pull1D
Entries 84
Mean −0.101
Std Dev 0.8617
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

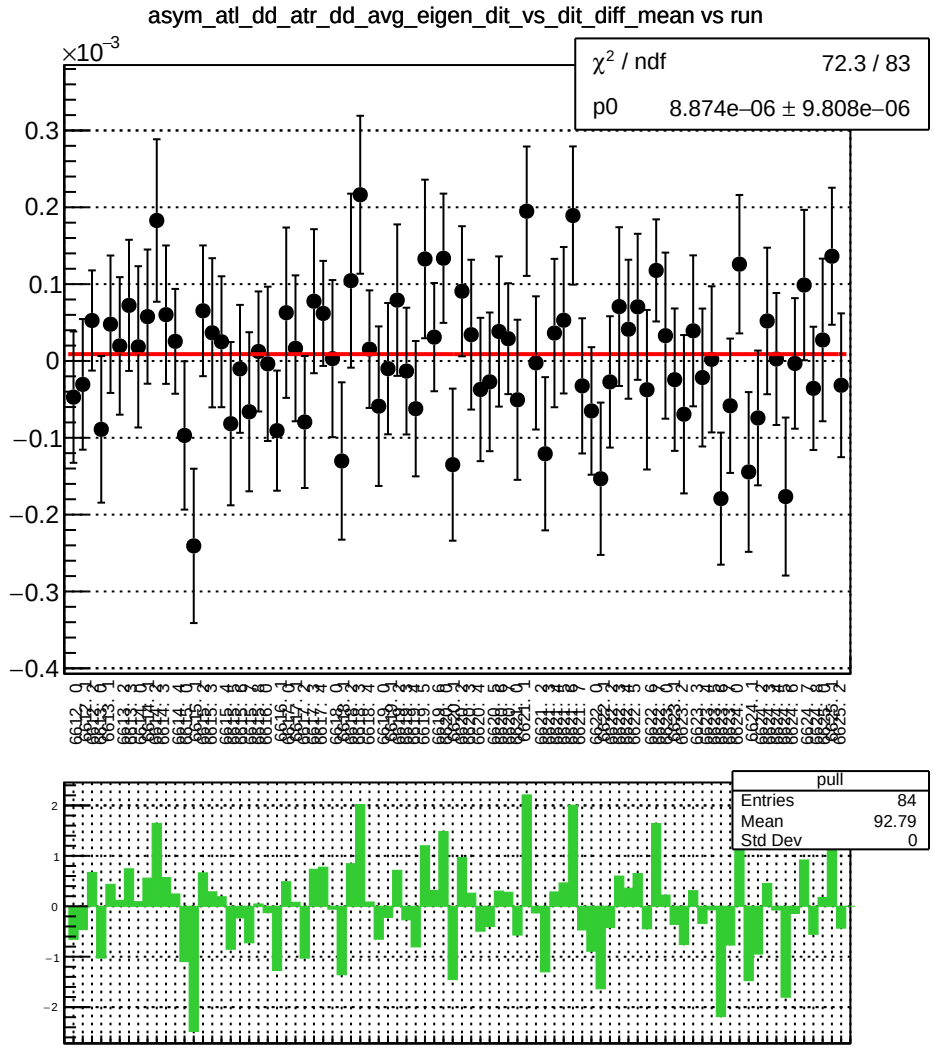

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.067e+06 / 83
p0 2.338e−11 ± 3.108e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

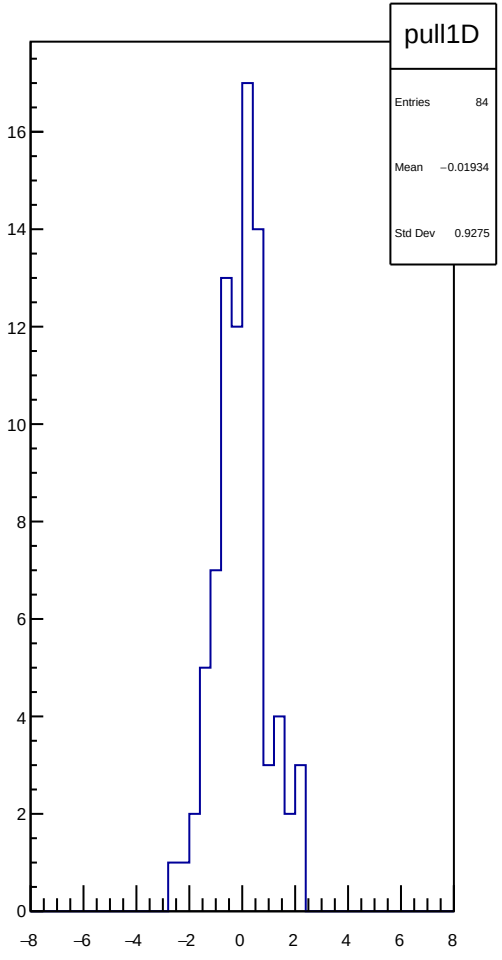

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.58 / 83
p0 −0.5406 ± 1.701
pull
Entries 84
Mean 801
Std Dev 0
pull1D
Entries 84
Mean 0.007339
Std Dev 0.9295

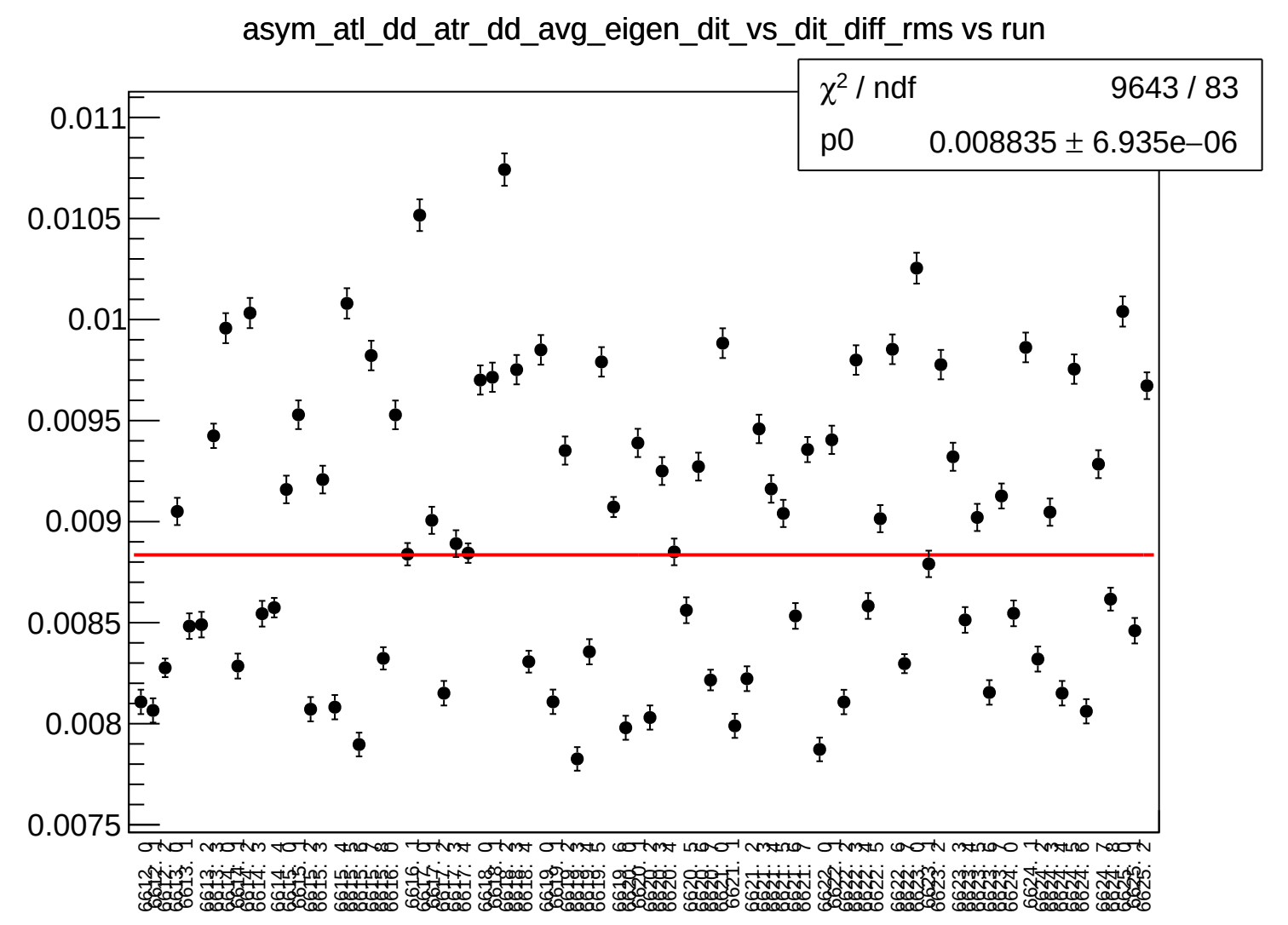

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 127.7 / 83
p0 1537 ± 1.203
1600
1580
1560
1540
1520
1500

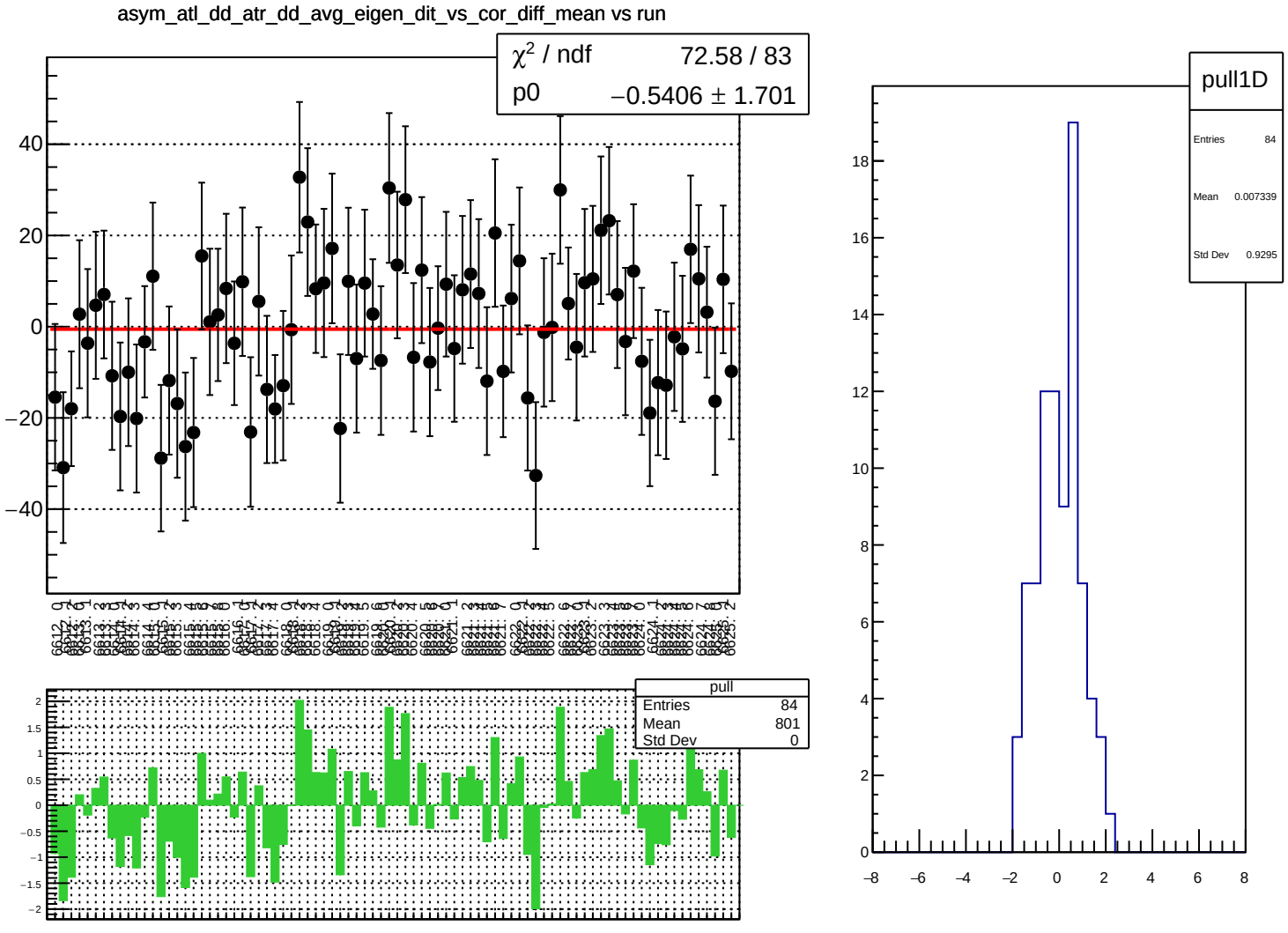

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.58 / 83
p0 −0.5406 ± 1.701
pull
Entries 84
Mean 801
Std Dev 0
pull1D
Entries 84
Mean 0.007339
Std Dev 0.9295

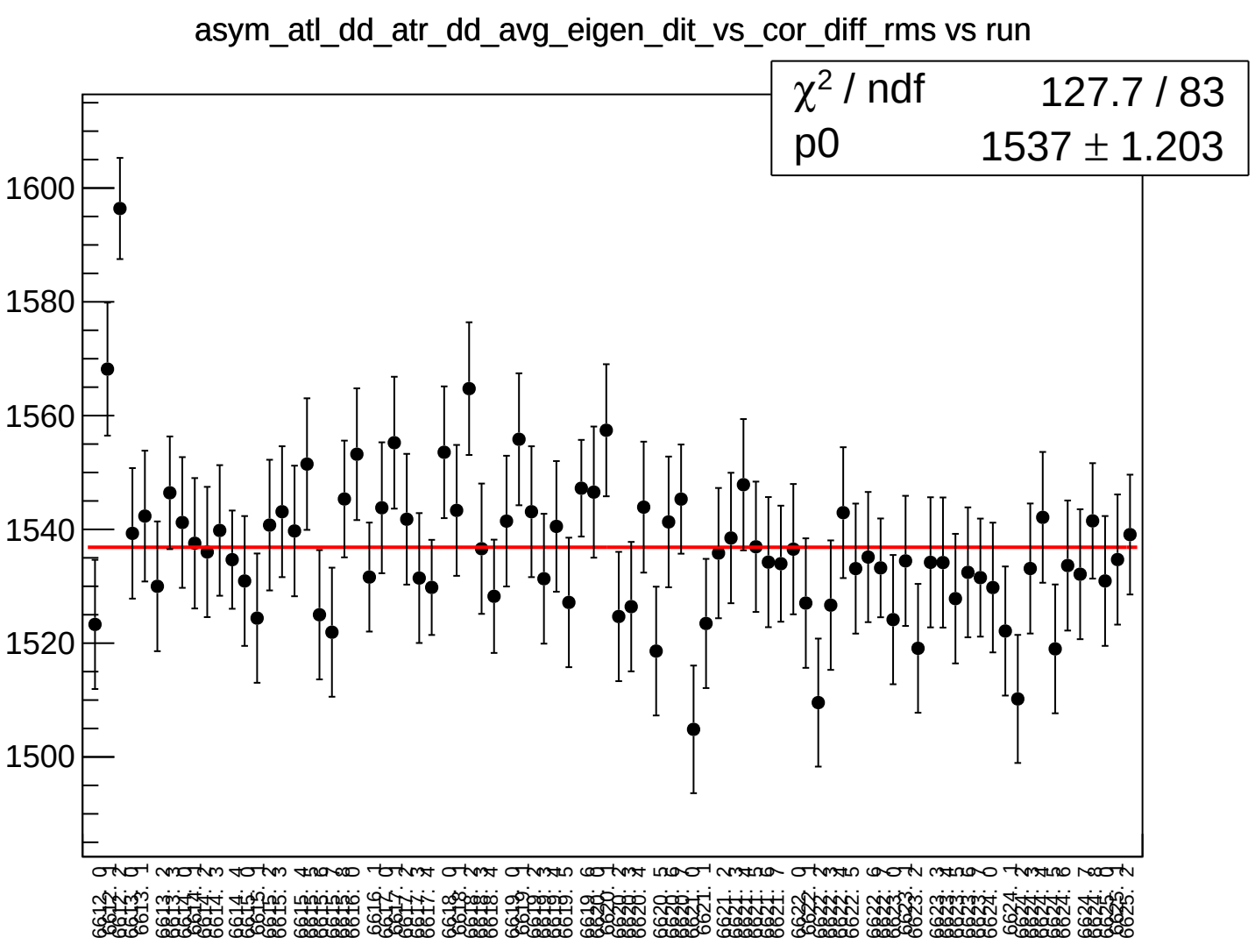

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 127.7 / 83
p0 1537 ± 1.203
1600
1580
1560
1540
1520
1500

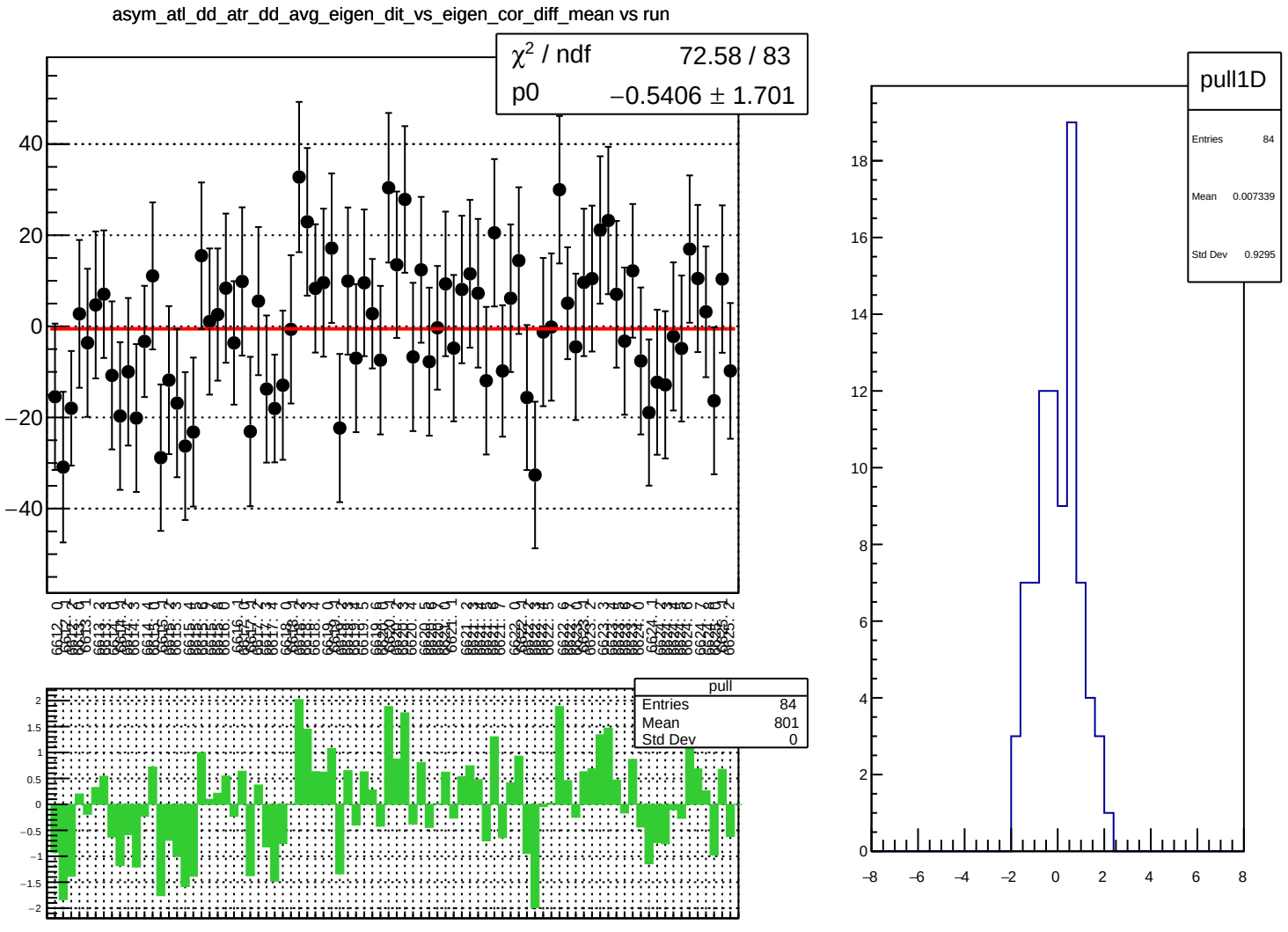

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.3 / 83
p0 8.874e−06 ± 9.808e−06
pull
Entries 84
Mean 92.79
Std Dev 0

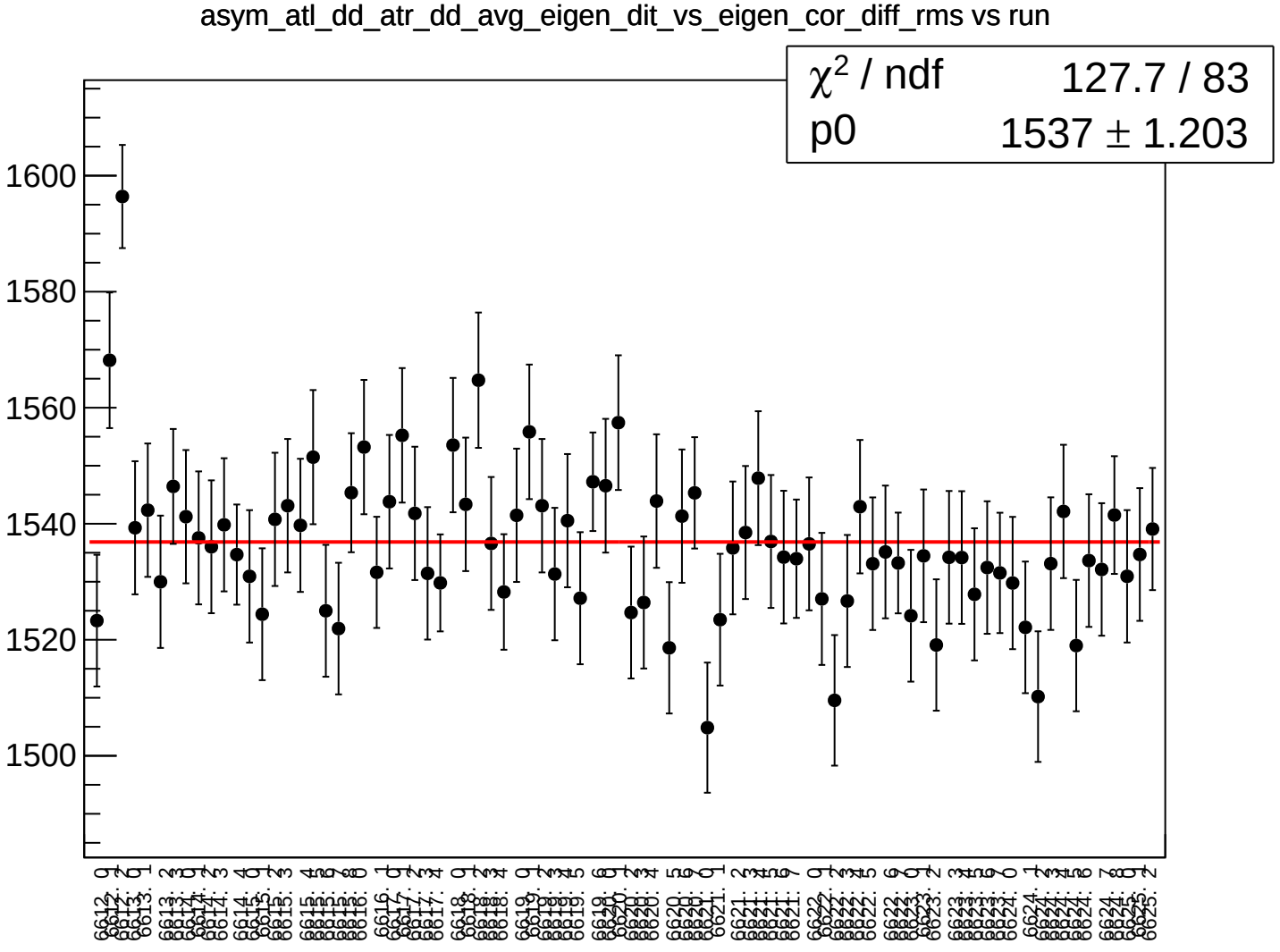

pull1D
Entries 84
Mean −0.01934
Std Dev 0.9275

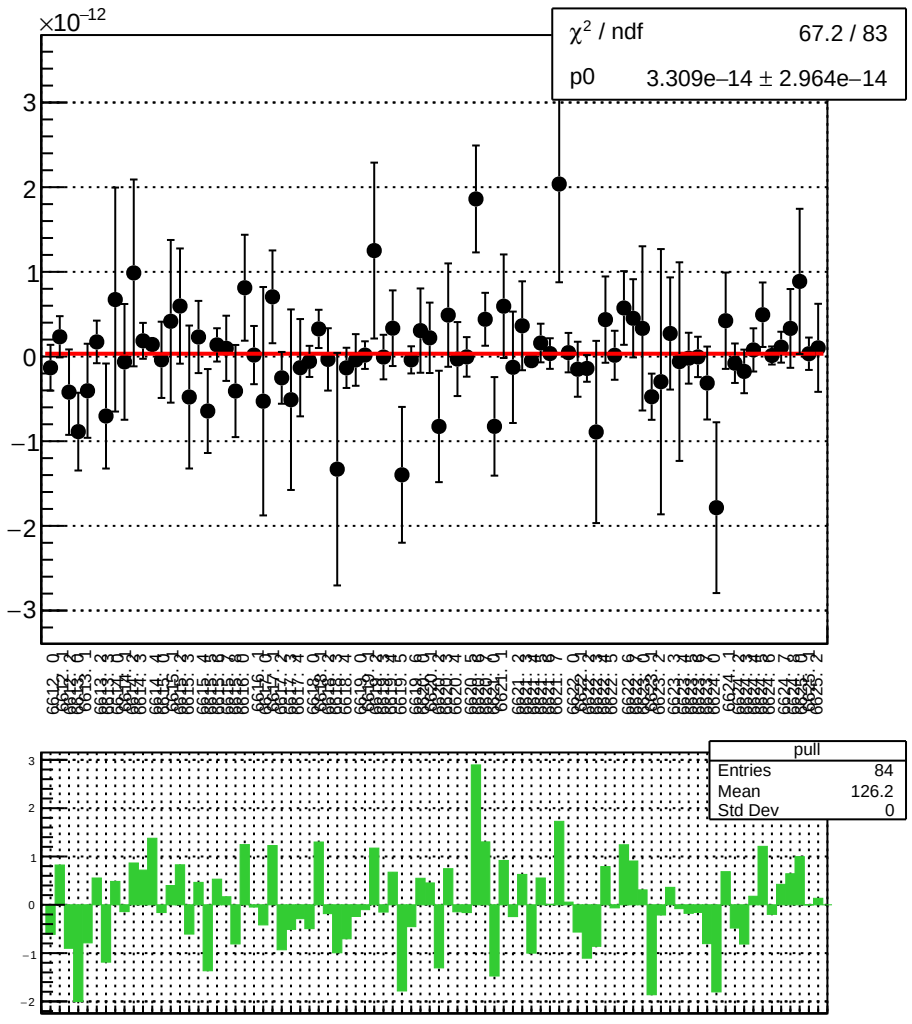

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ2 / ndf 9643 / 83
p0 0.008835 ± 6.935e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075

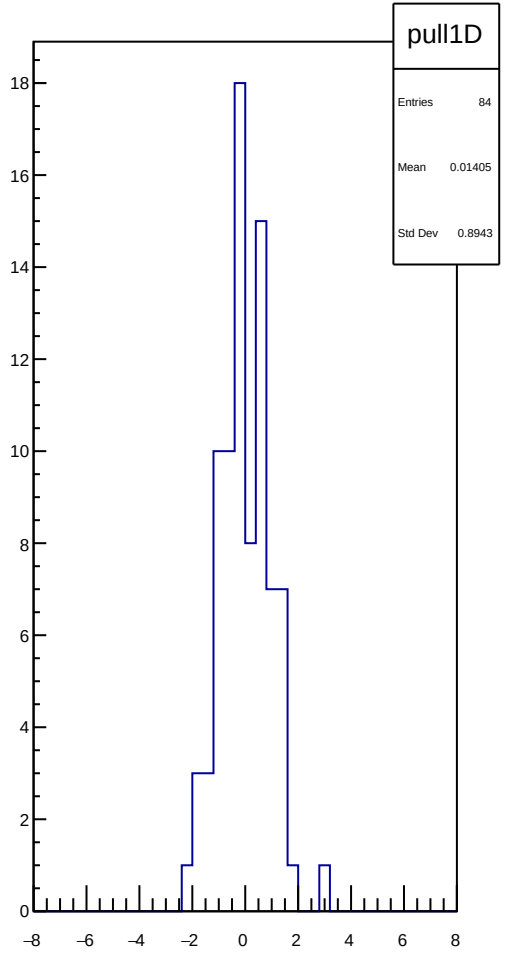

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.58 / 83
p0 −0.5406 ± 1.701
pull
Entries 84
Mean 801
Std Dev 0
pull1D
Entries 84
Mean 0.007339
Std Dev 0.9295

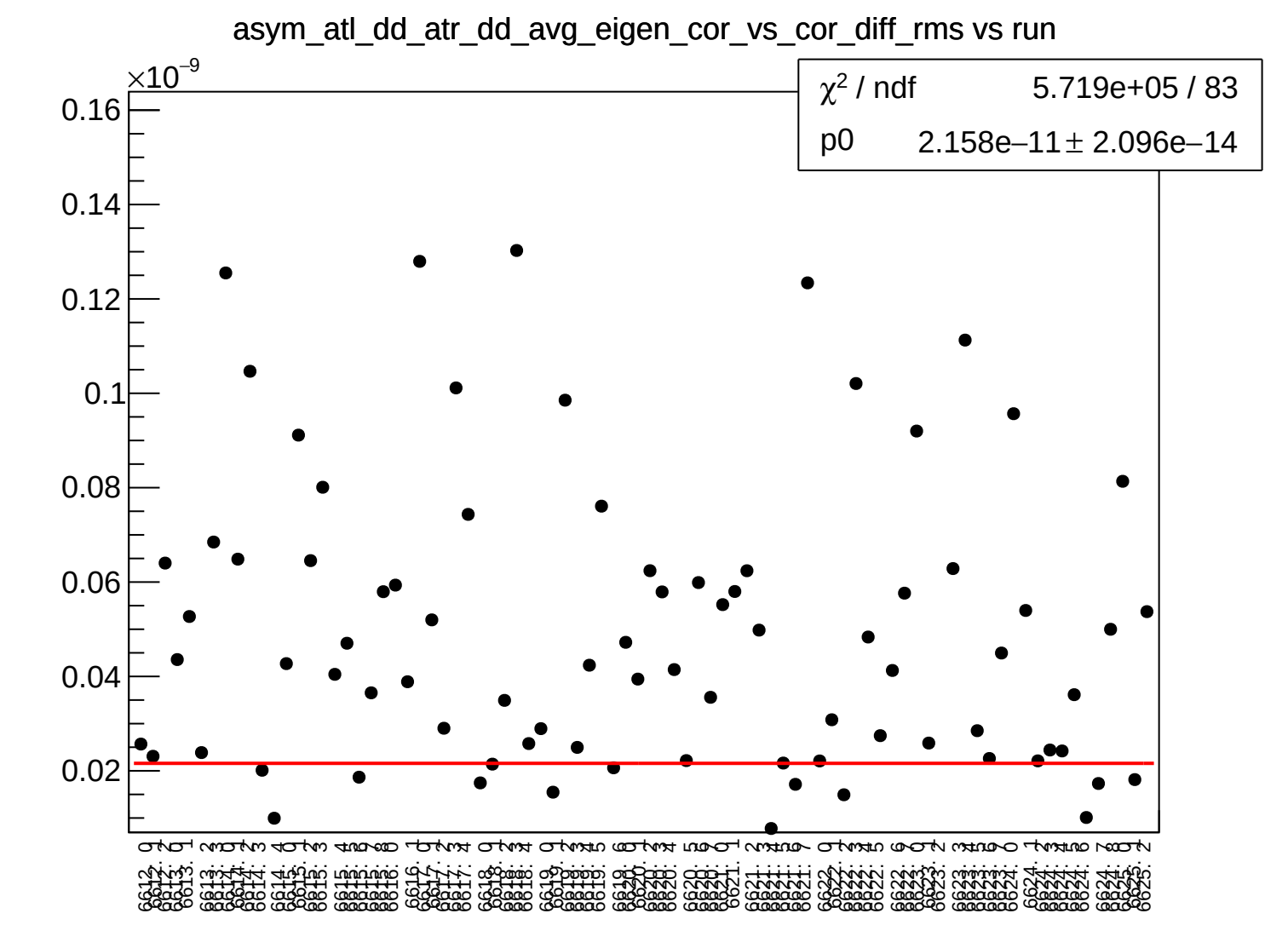

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 127.7 / 83
p0 1537 ± 1.203
1600
1580
1560
1540
1520
1500

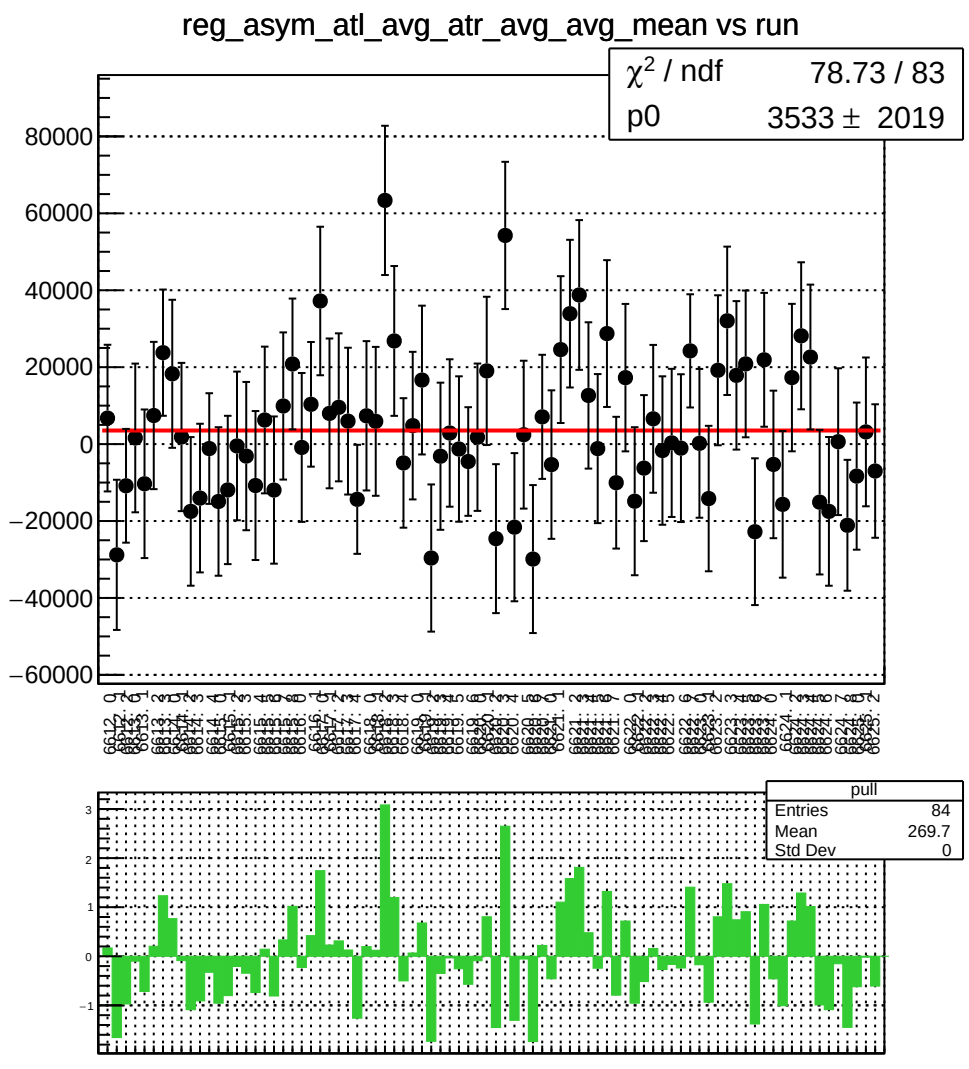

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.58 / 83
p0 −0.5406 ± 1.701
pull
Entries 84
Mean 801
Std Dev 0
pull1D
Entries 84
Mean 0.007339
Std Dev 0.9295

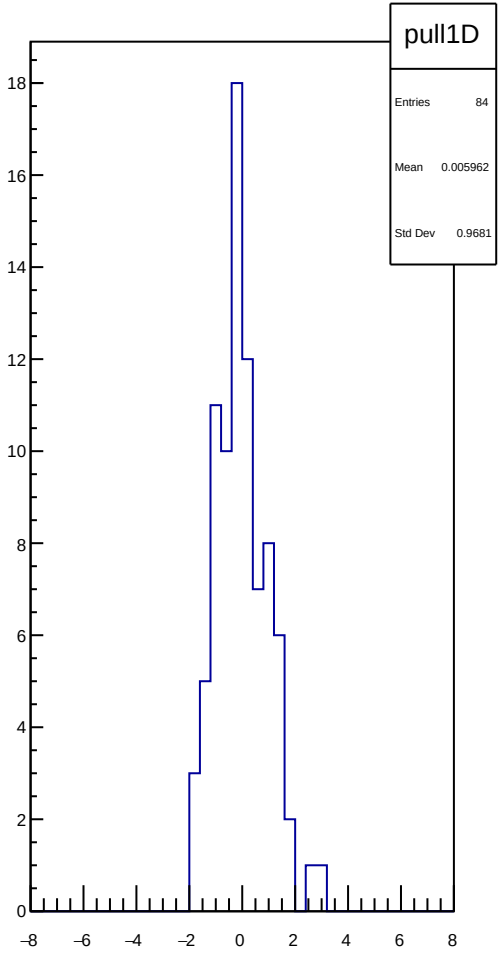

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 127.7 / 83
p0 1537 ± 1.203
1600
1580
1560
1540
1520
1500

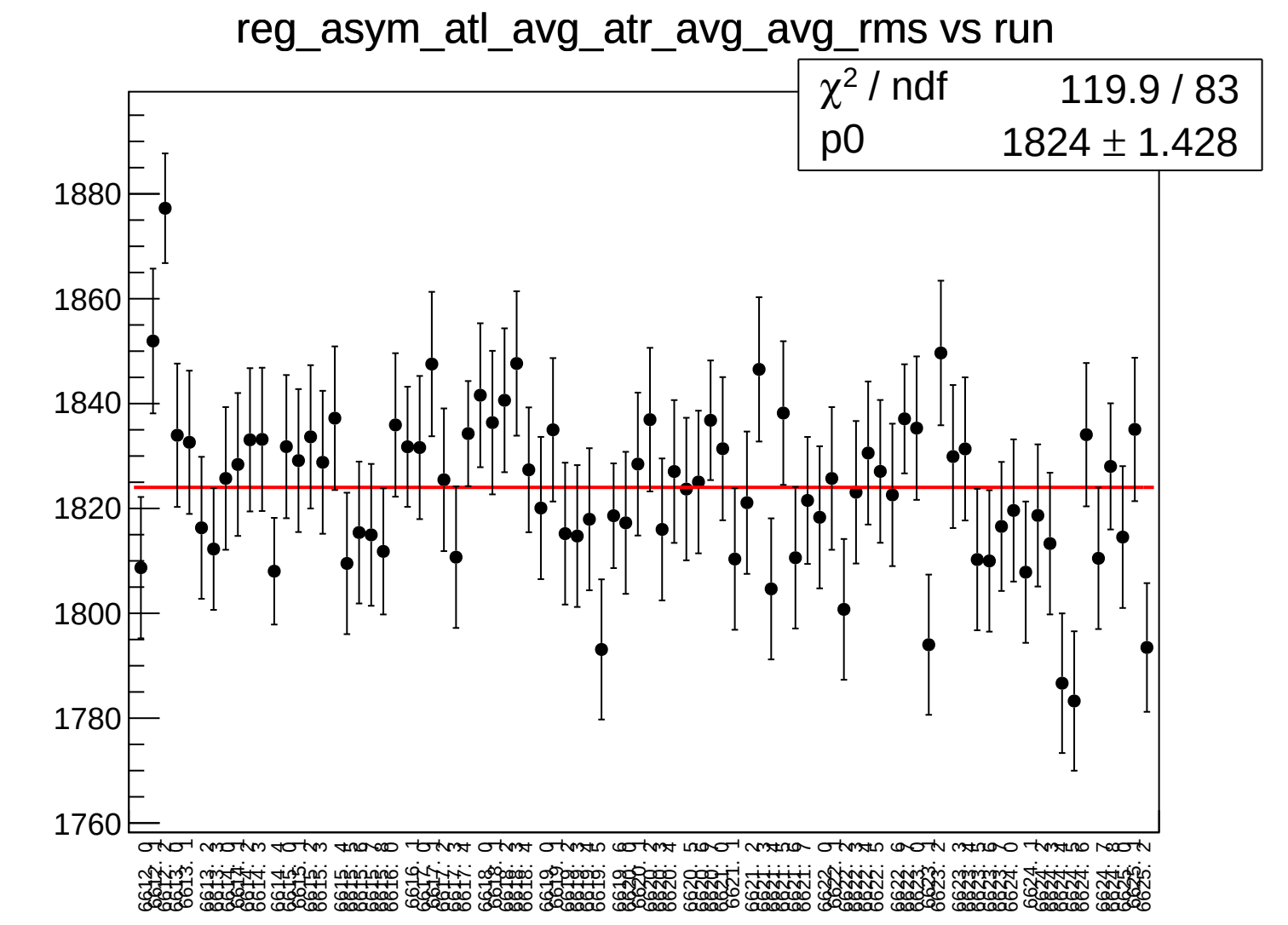

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.2 / 83
p0 3.309e−14 ± 2.964e−14
pull
Entries 84
Mean 126.2
Std Dev 0

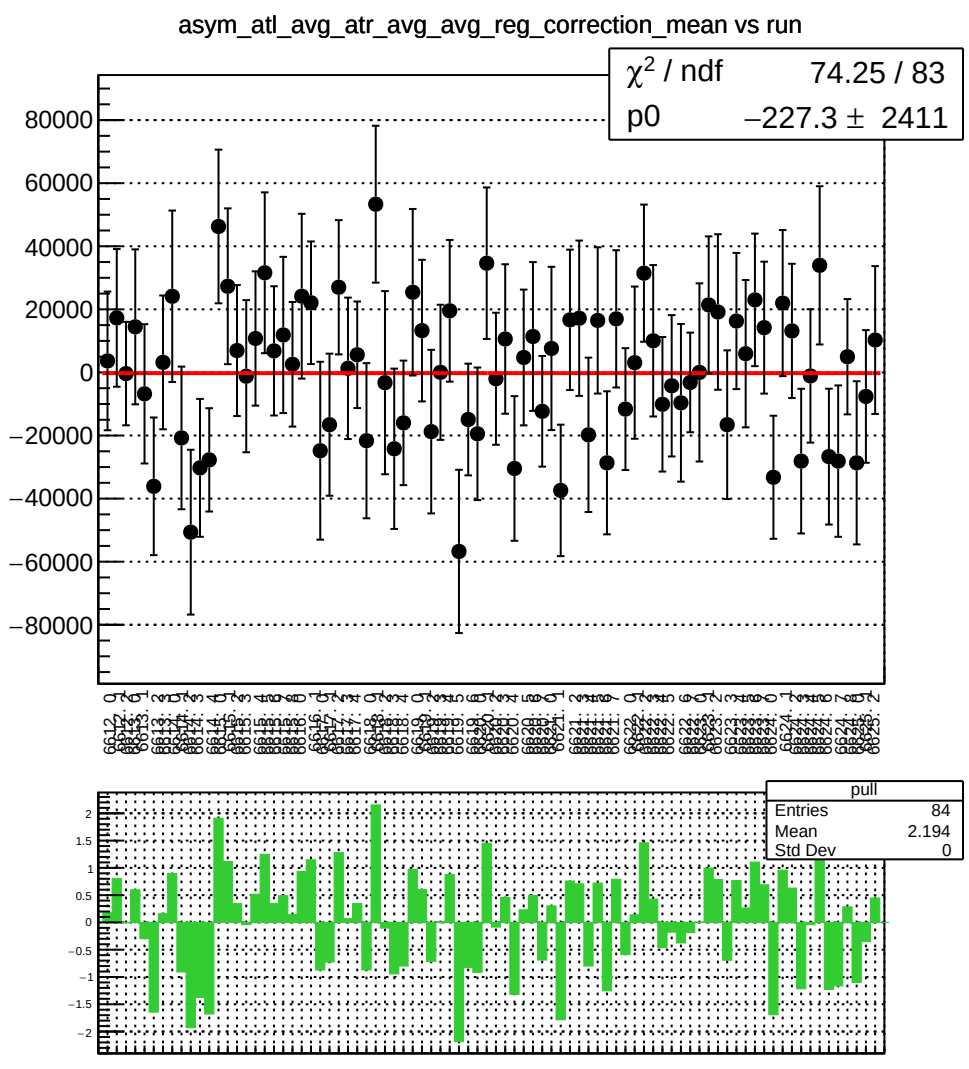

pull1D
Entries 84
Mean 0.01405
Std Dev 0.8943

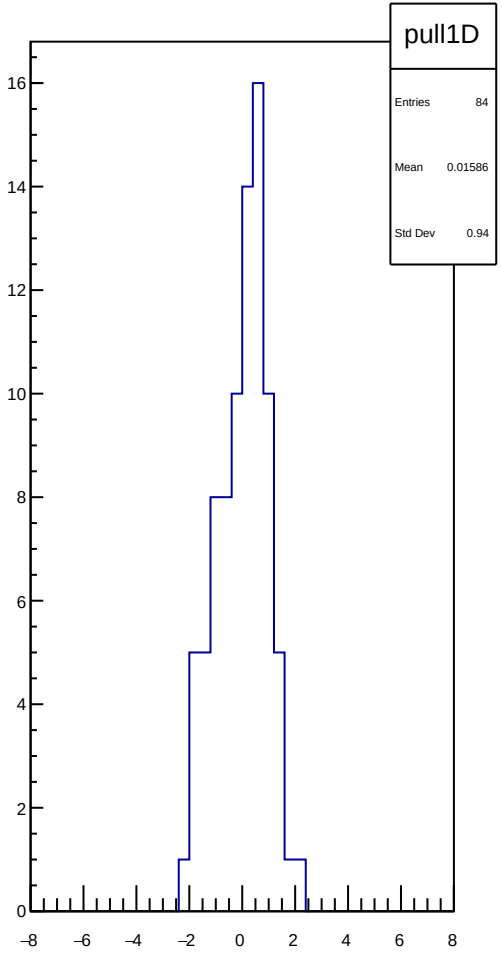

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.719e+05 / 83
p0 2.158e−11 ± 2.096e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

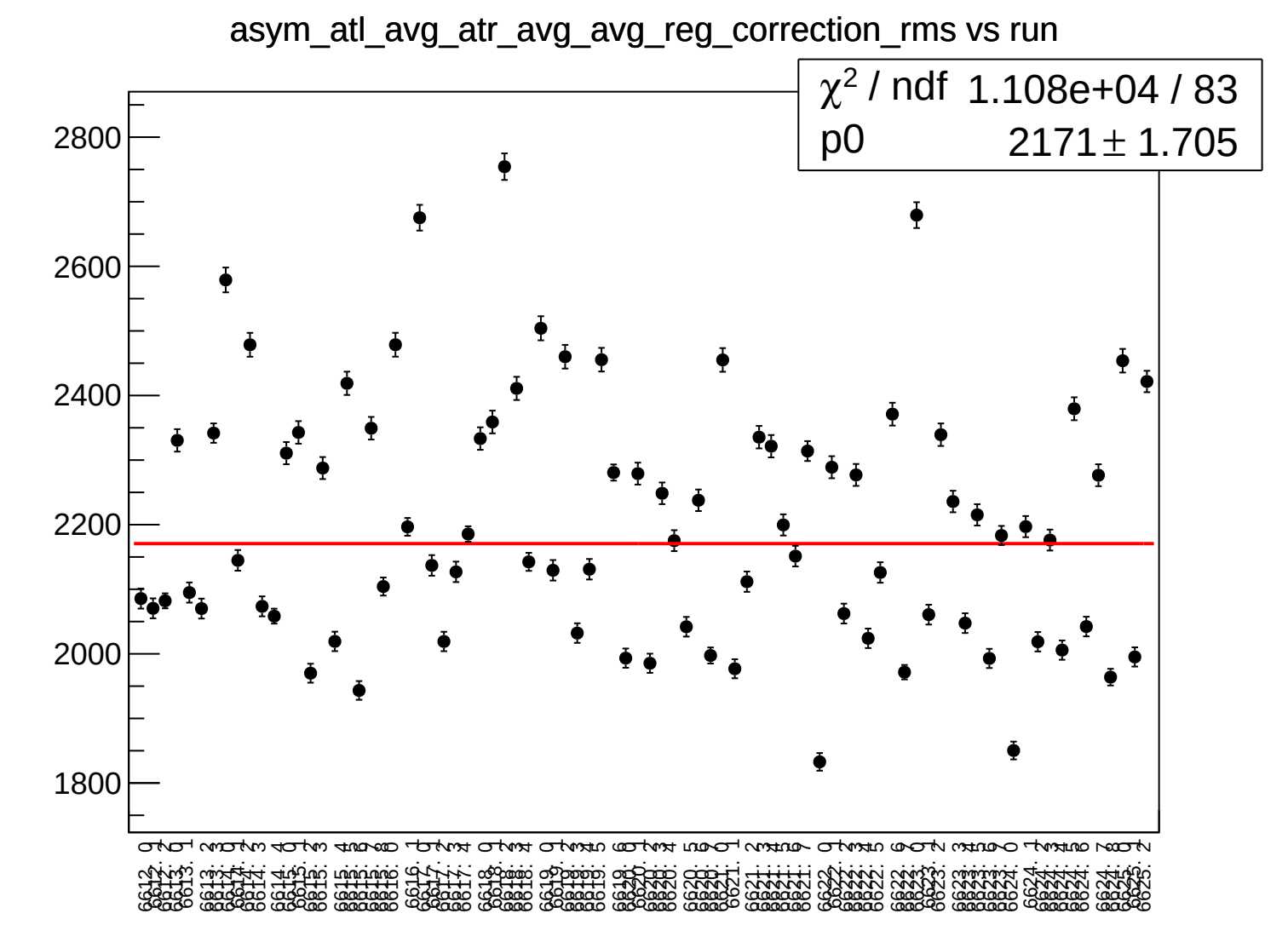

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 78.73 / 83
p0 3533 ± 2019
pull
Entries 84
Mean 269.7
Std Dev 0

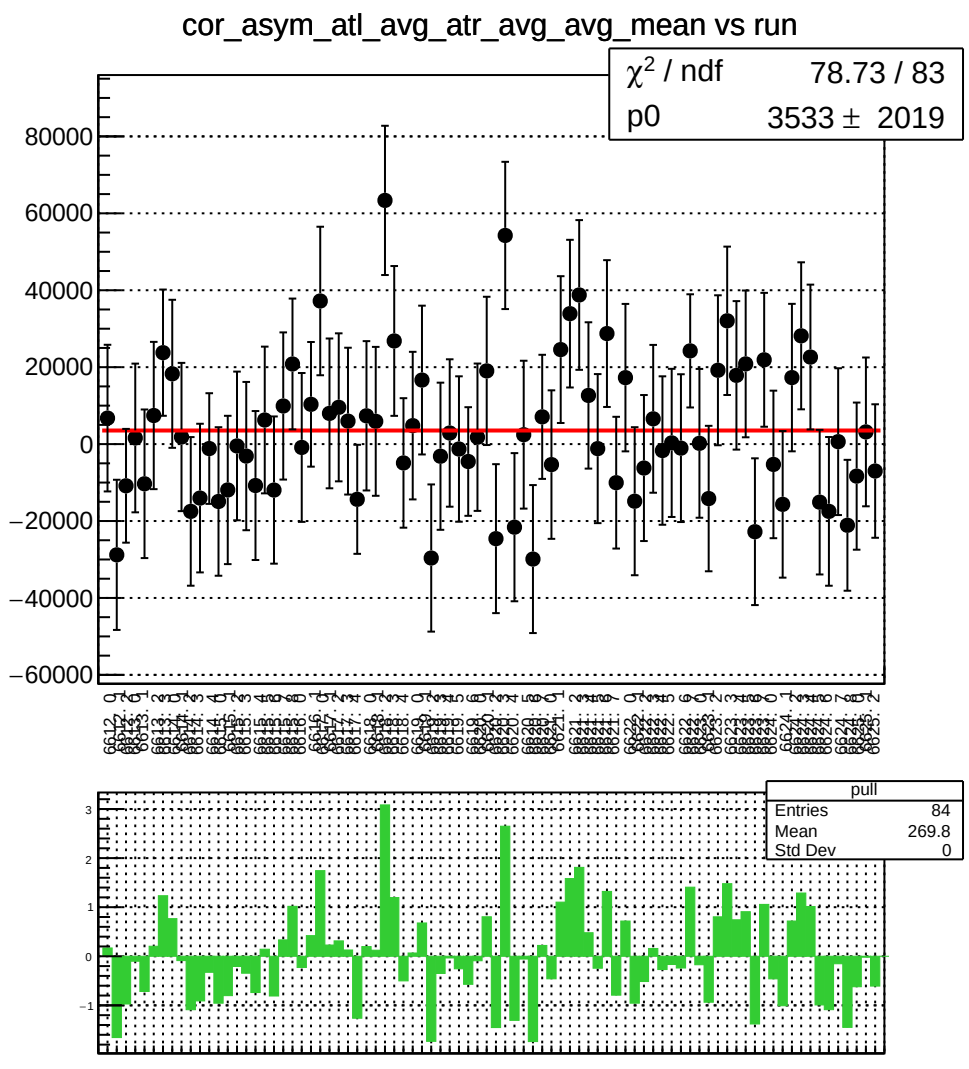

pull1D
Entries 84
Mean 0.005962
Std Dev 0.9681

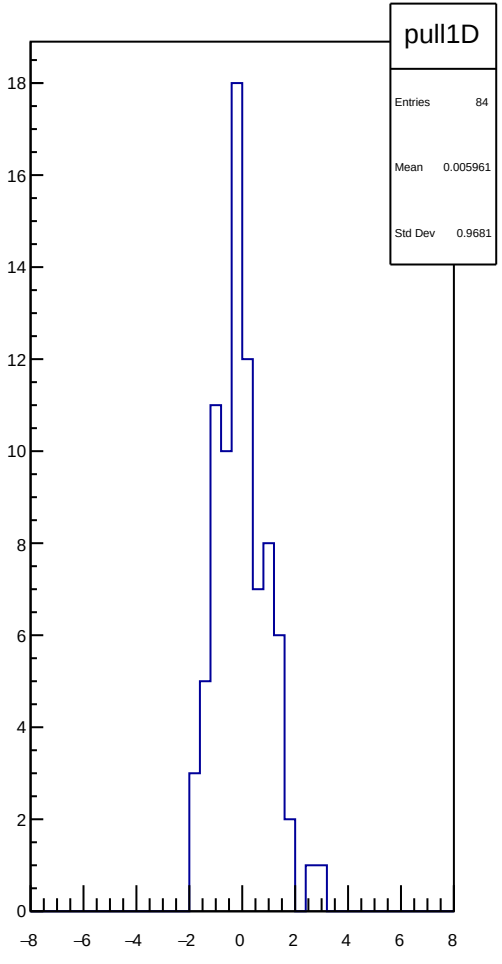

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 119.9 / 83
p0 1824 ± 1.428
1880
1860
1840
1820
1800
1780
1760

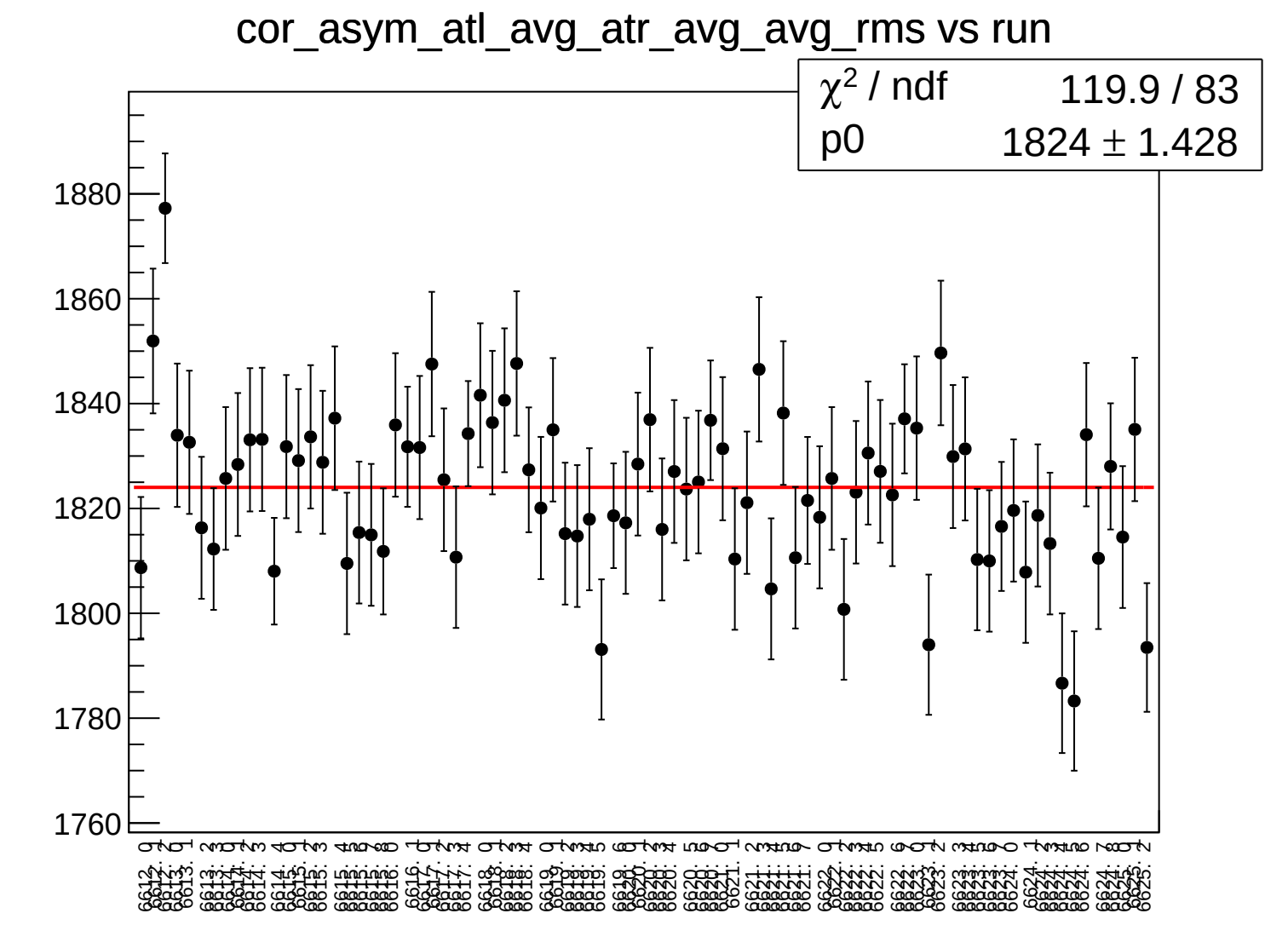

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
χ² / ndf 74.25 / 83
p0 −227.3 ± 2411
pull
Entries 84
Mean 2.194
Std Dev 0

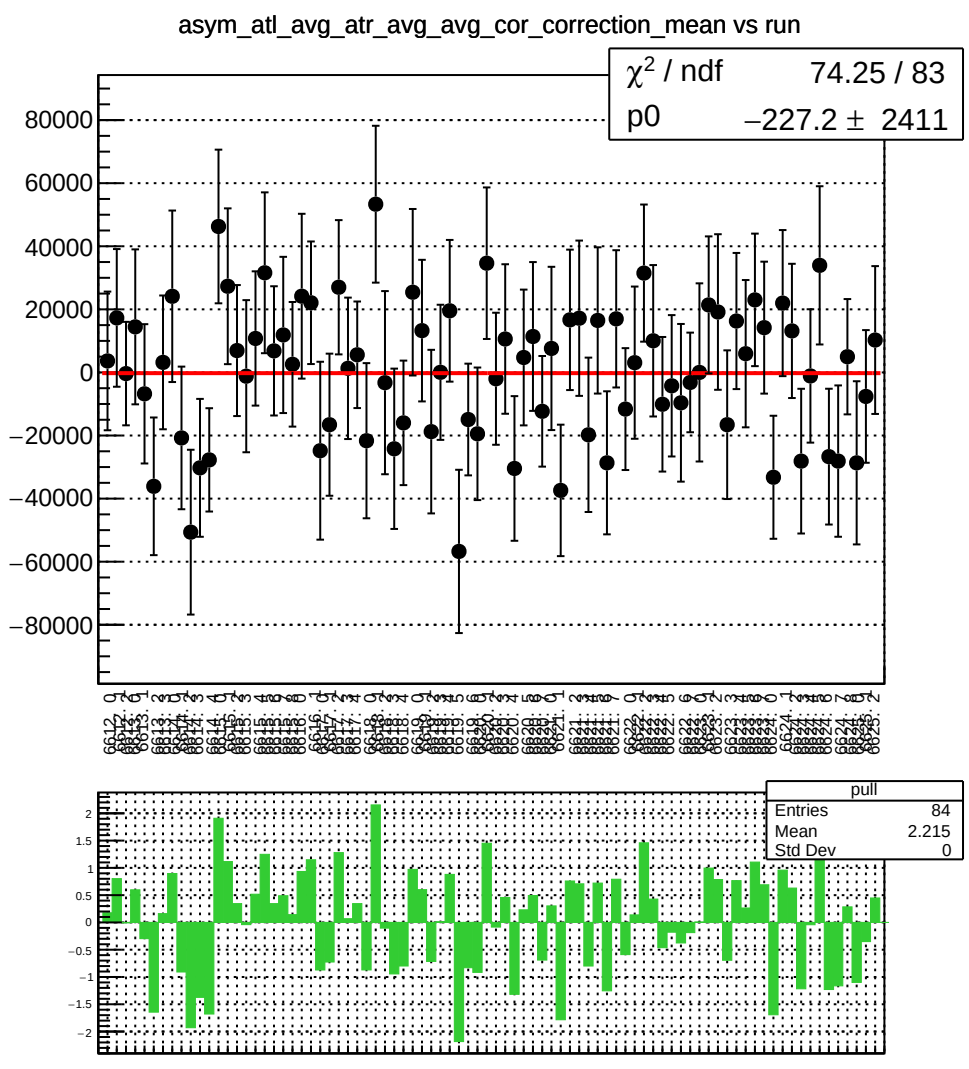

pull1D
Entries 84
Mean 0.01586
Std Dev 0.94

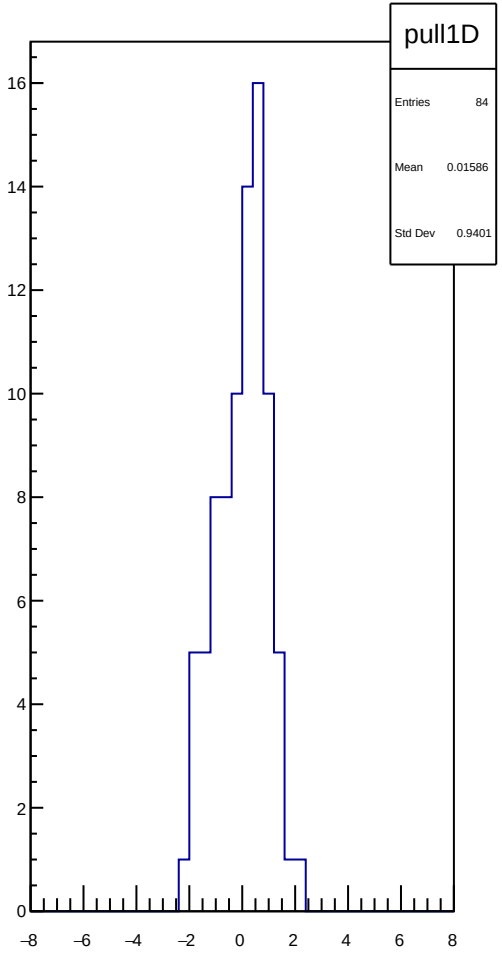

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.108e+04 / 83
p0 2171 ± 1.705
2800
2600
2400
2200
2000
1800

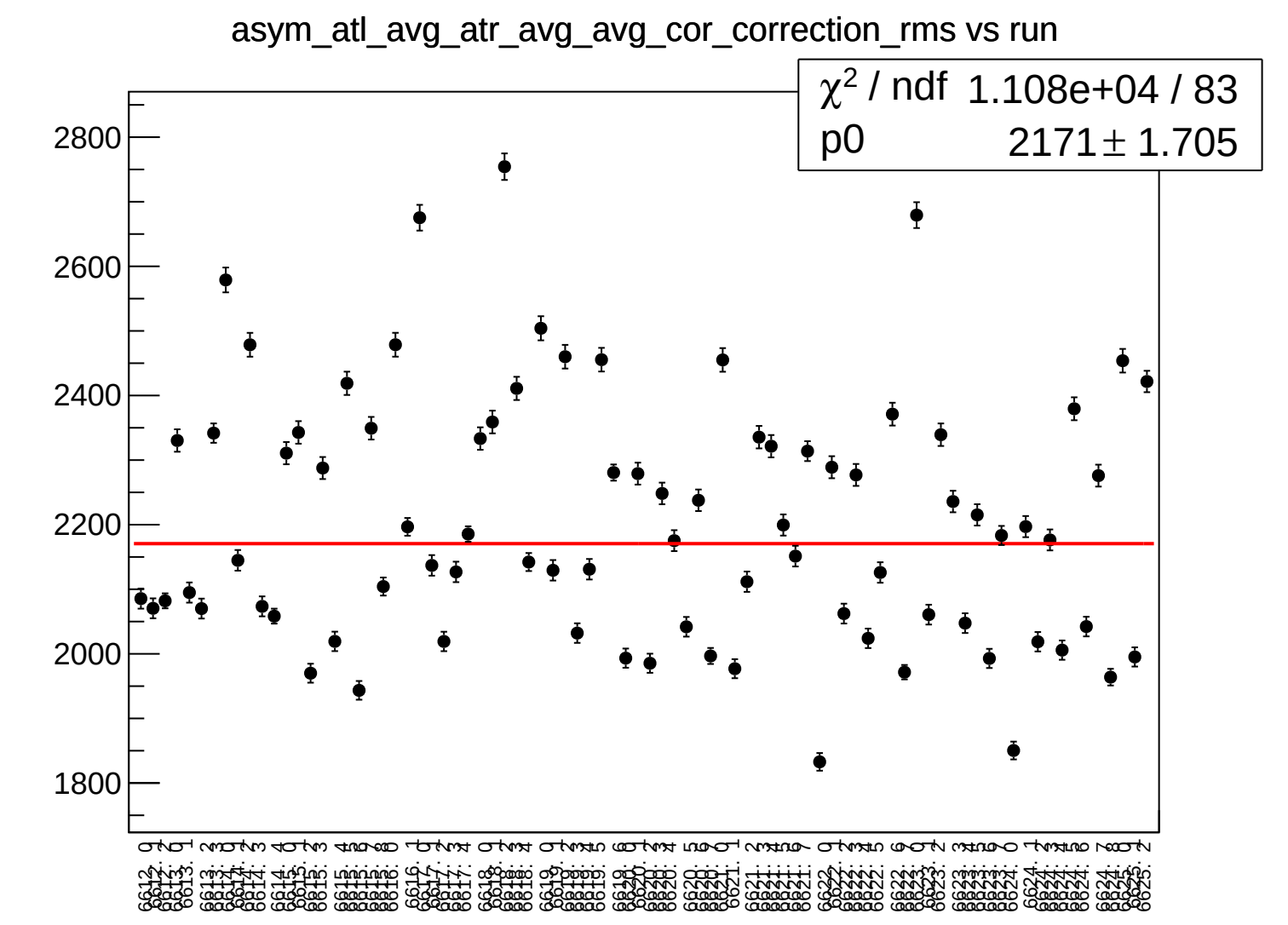

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 78.73 / 83
p0 3533 ± 2019
pull
Entries 84
Mean 269.8
Std Dev 0

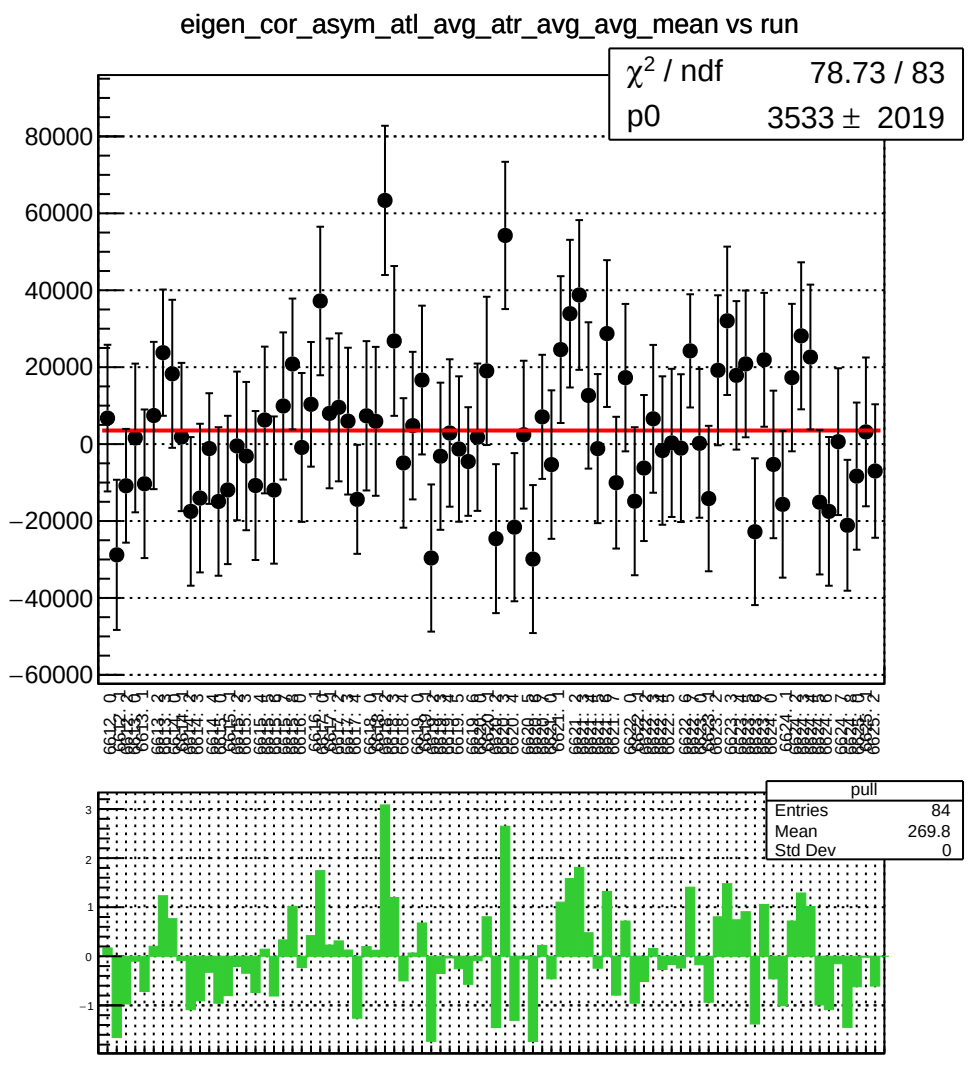

pull1D
Entries 84
Mean 0.005961
Std Dev 0.9681

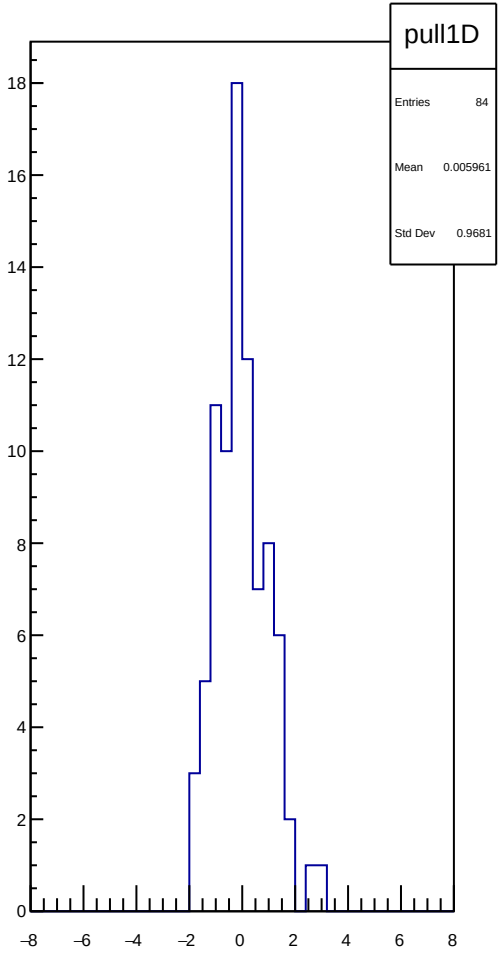

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 119.9 / 83
p0 1824 ± 1.428
1880
1860
1840
1820
1800
1780
1760

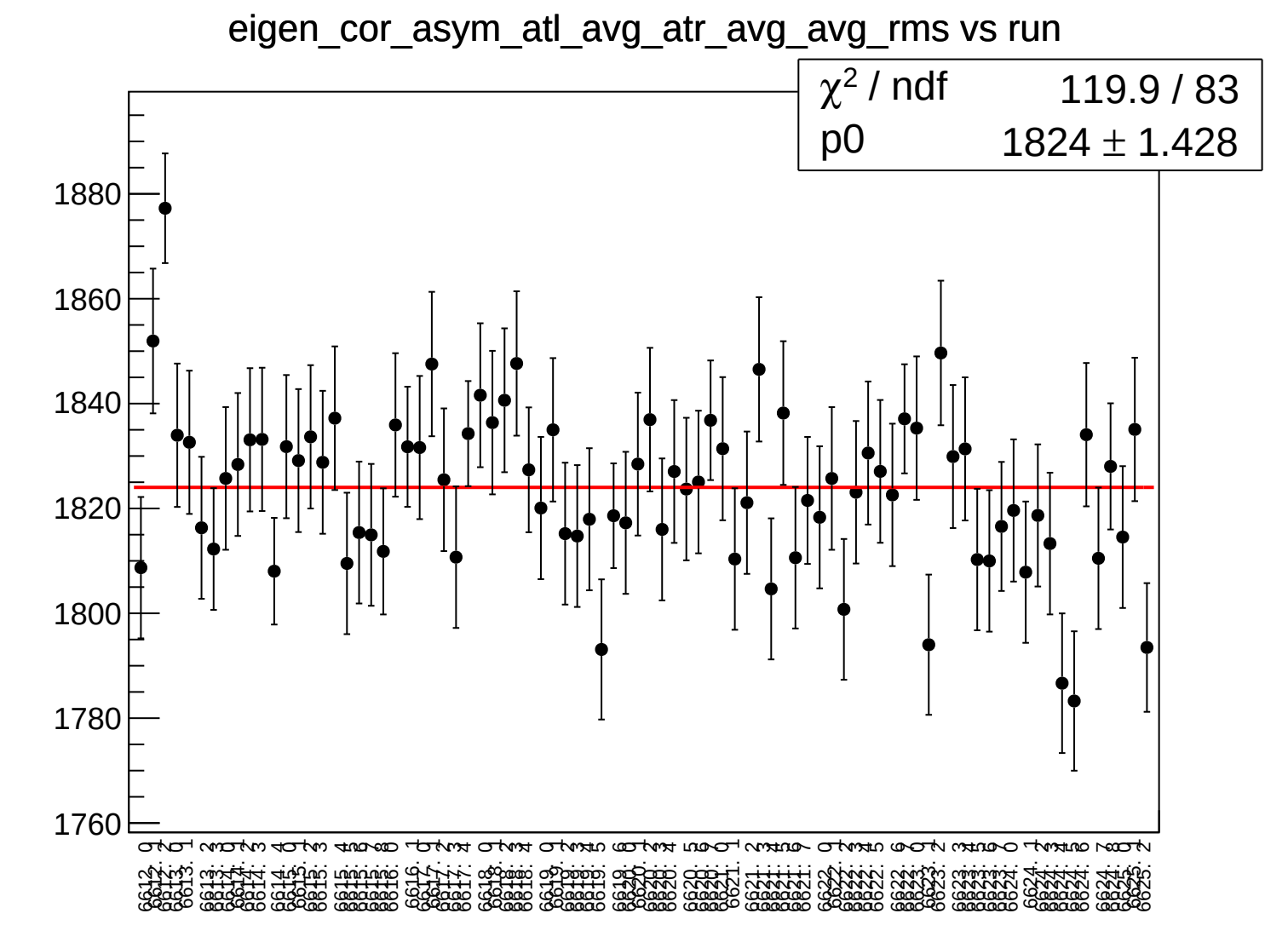

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
χ² / ndf 74.25 / 83
p0 −227.2 ± 2411
pull
Entries 84
Mean 2.215
Std Dev 0

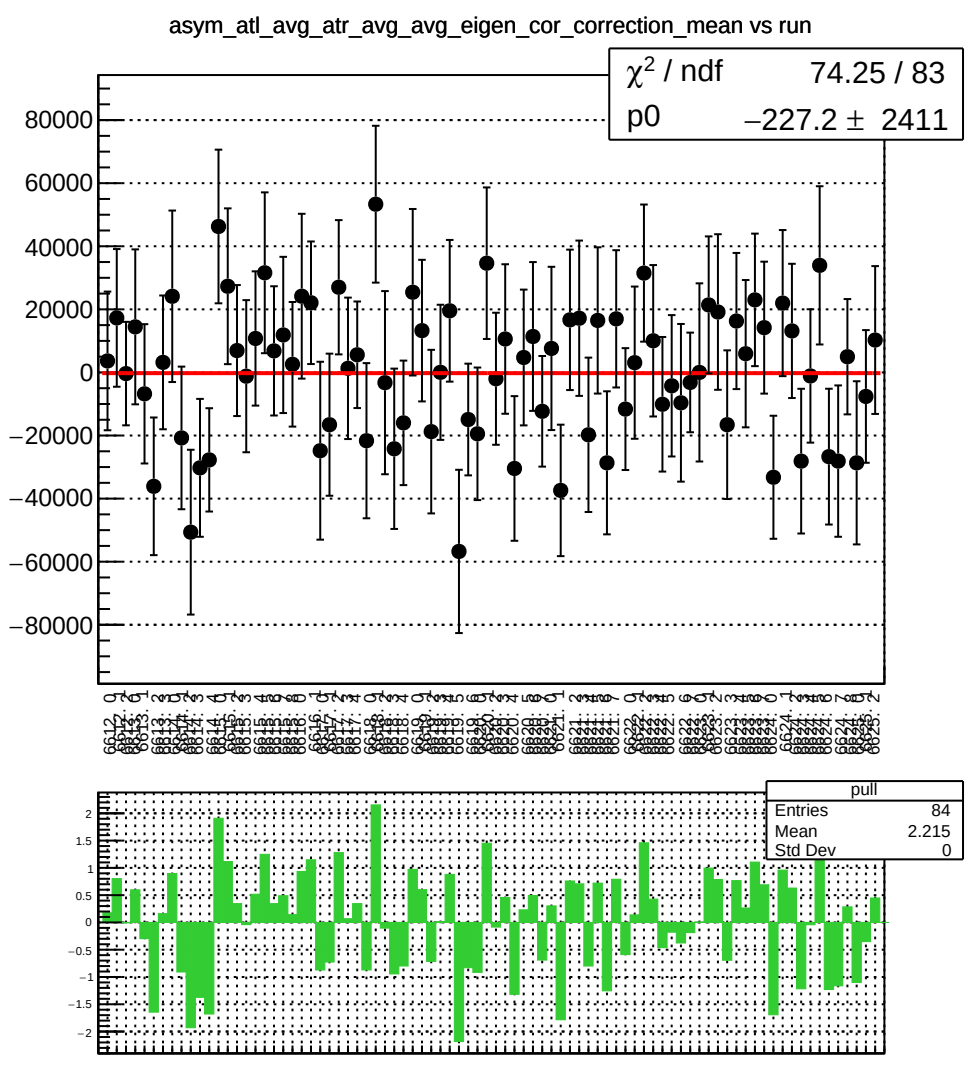

pull1D
Entries 84
Mean 0.01586
Std Dev 0.9401

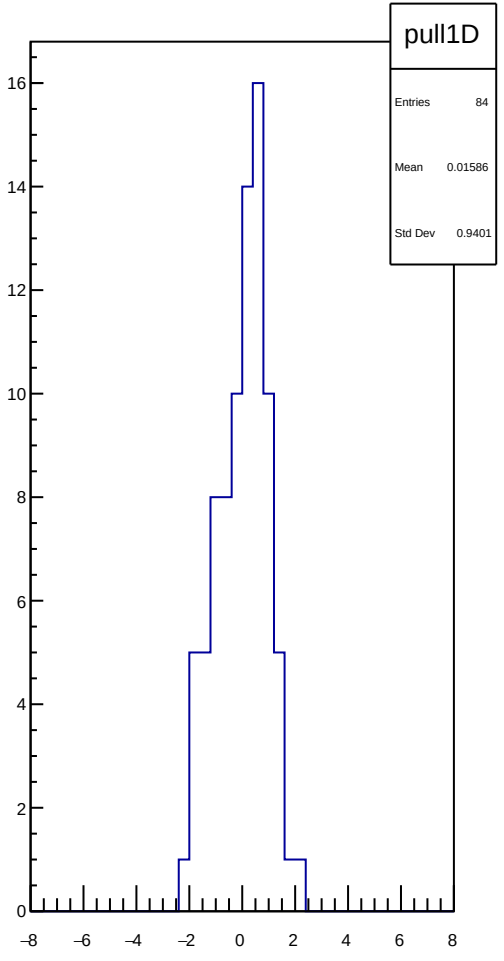

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.108e+04 / 83
p0 2171 ± 1.705
2800
2600
2400
2200
2000
1800

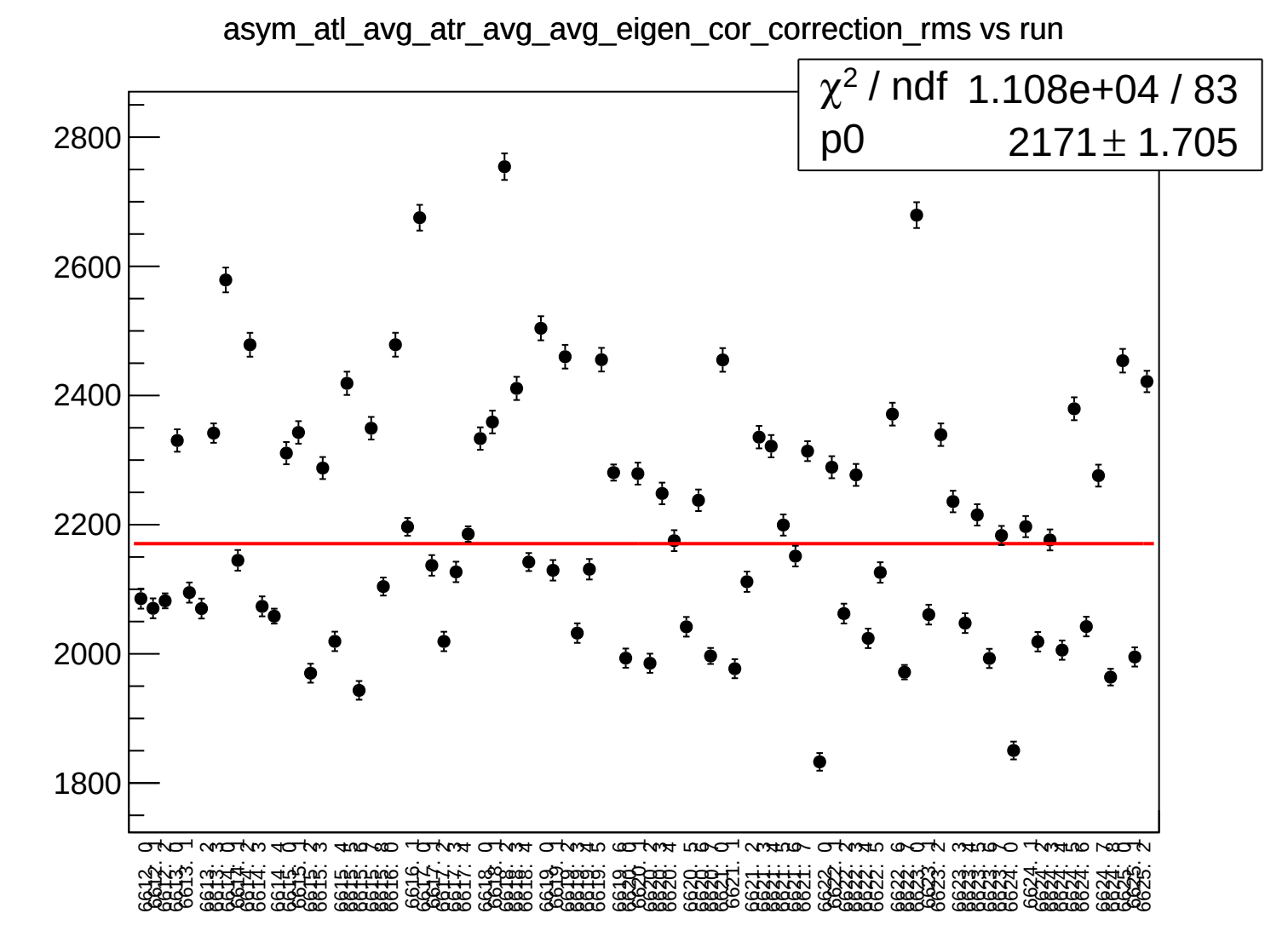

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 78.73 / 83
p0 3533 ± 2019
pull
Entries 84
Mean 269.8
Std Dev 0

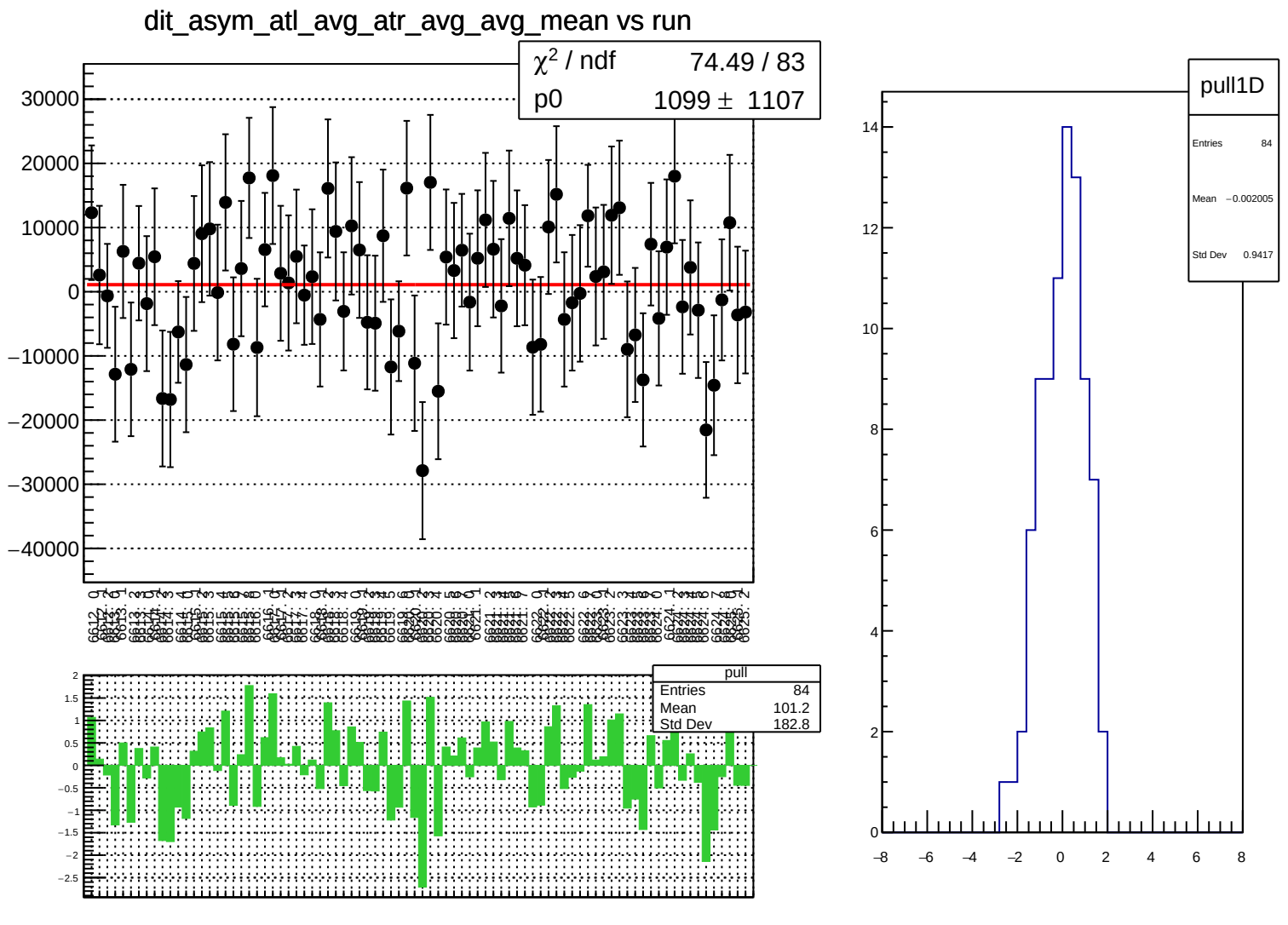

pull1D
Entries 84
Mean 0.005961
Std Dev 0.9681

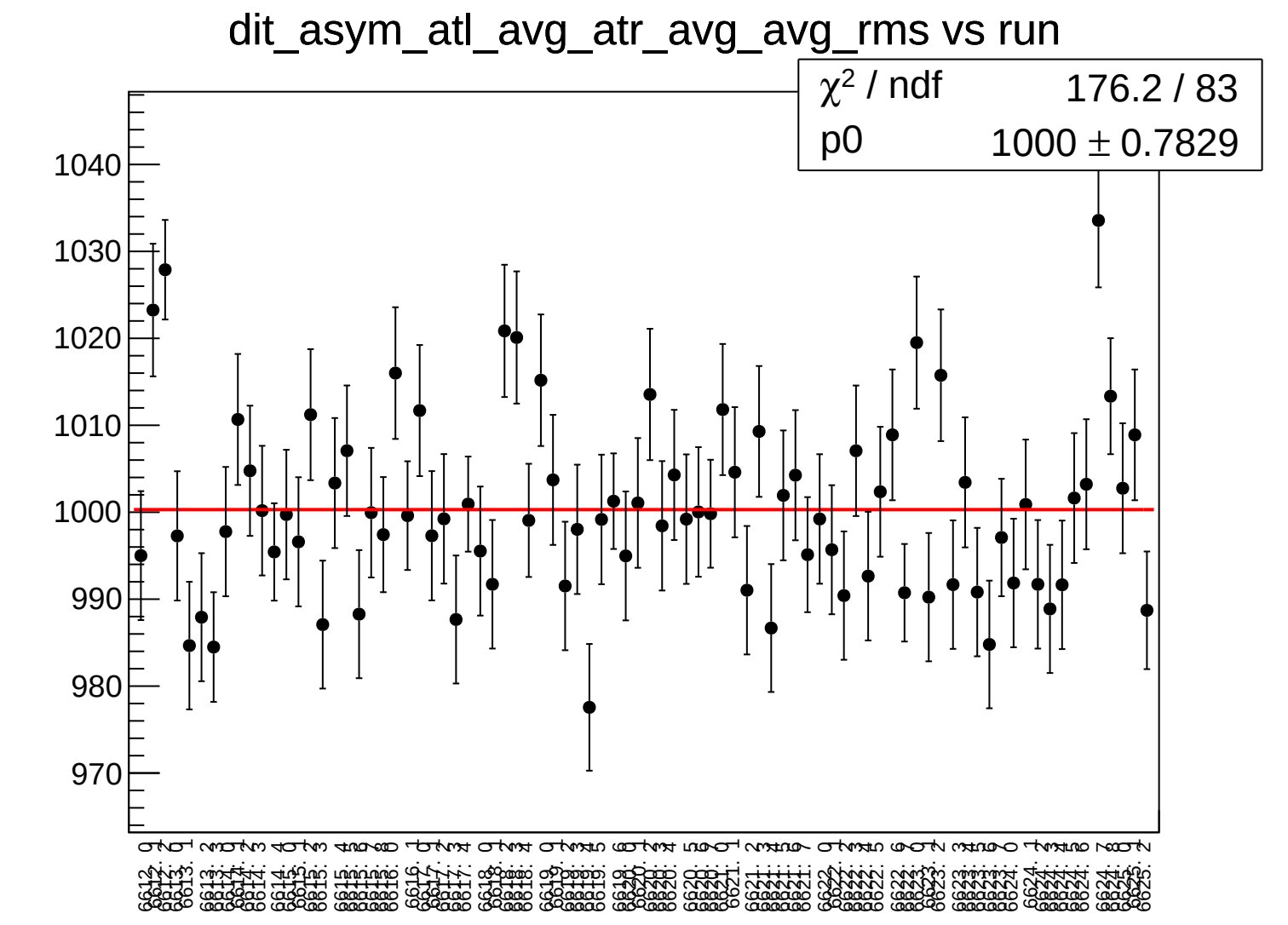

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 119.9 / 83
p0 1824 ± 1.428
1880
1860
1840
1820
1800
1780
1760

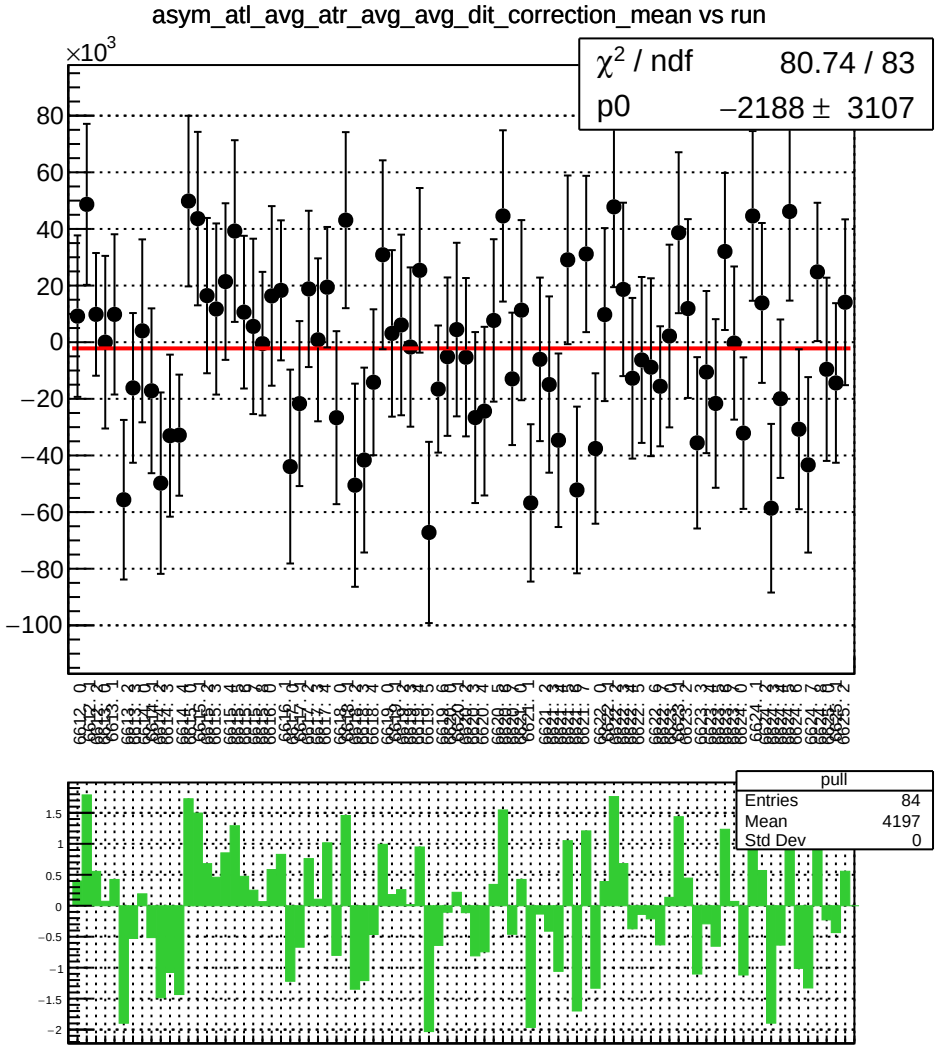

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.25 / 83
p0 −227.2 ± 2411
pull
Entries 84
Mean 2.215
Std Dev 0

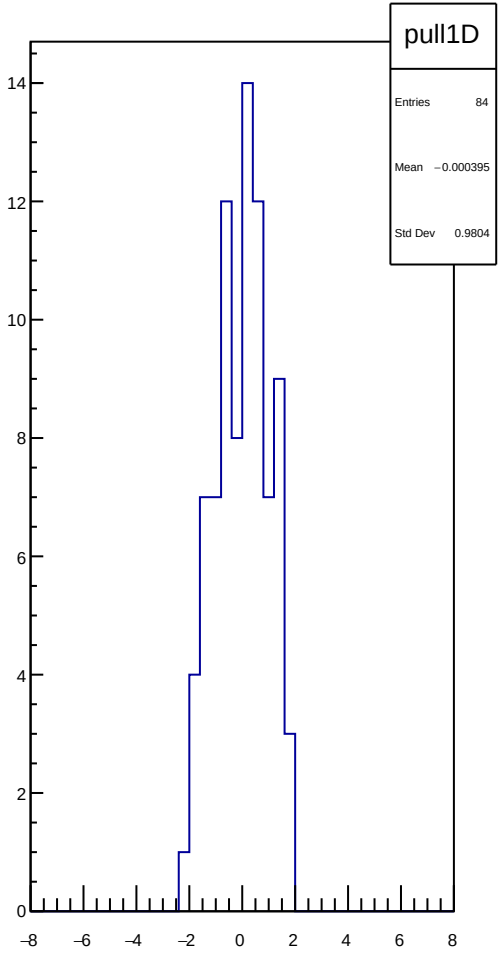

pull1D
Entries 84
Mean 0.01586
Std Dev 0.9401

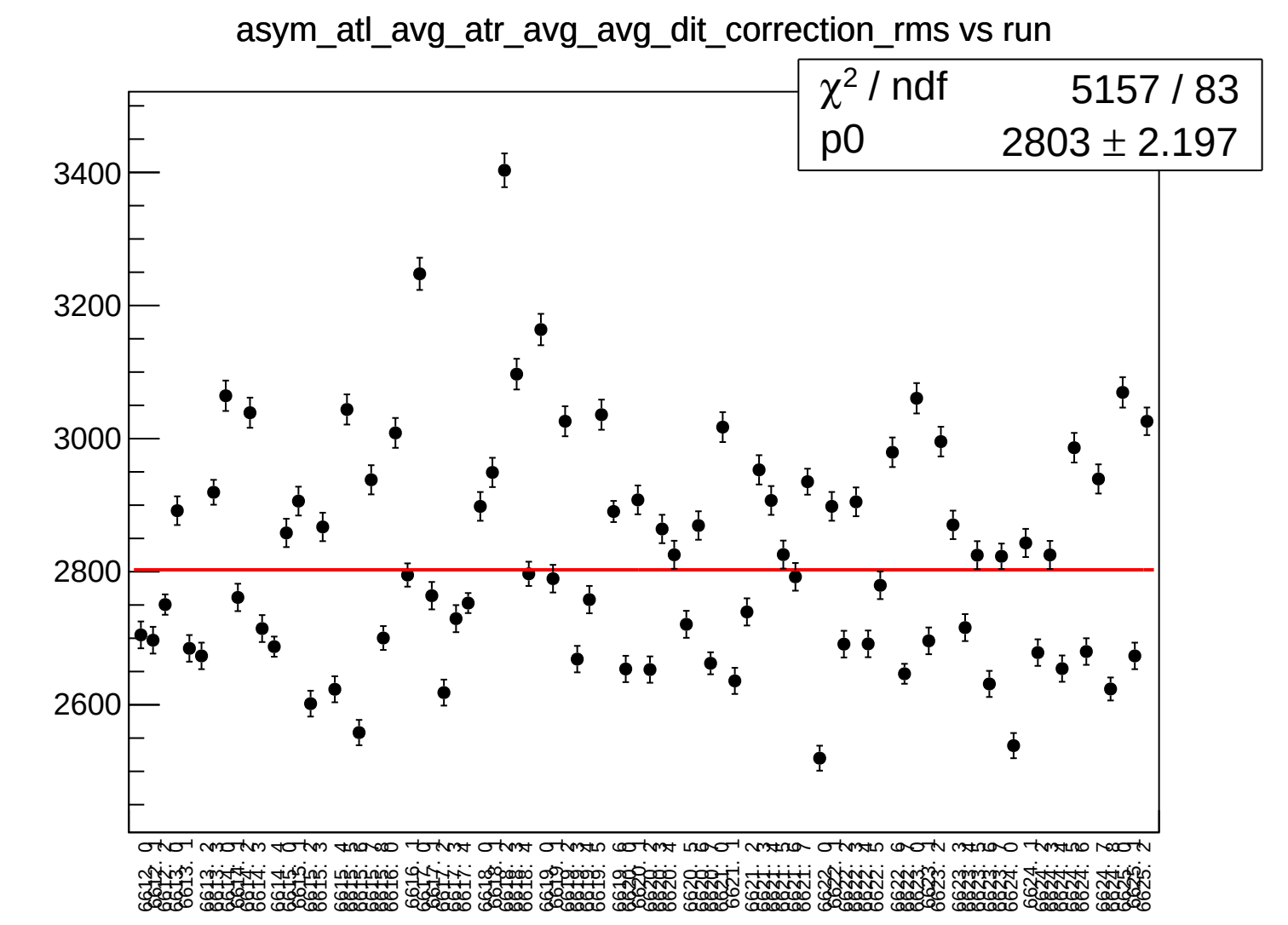

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.108e+04 / 83
p0 2171 ± 1.705
2800
2600
2400
2200
2000
1800

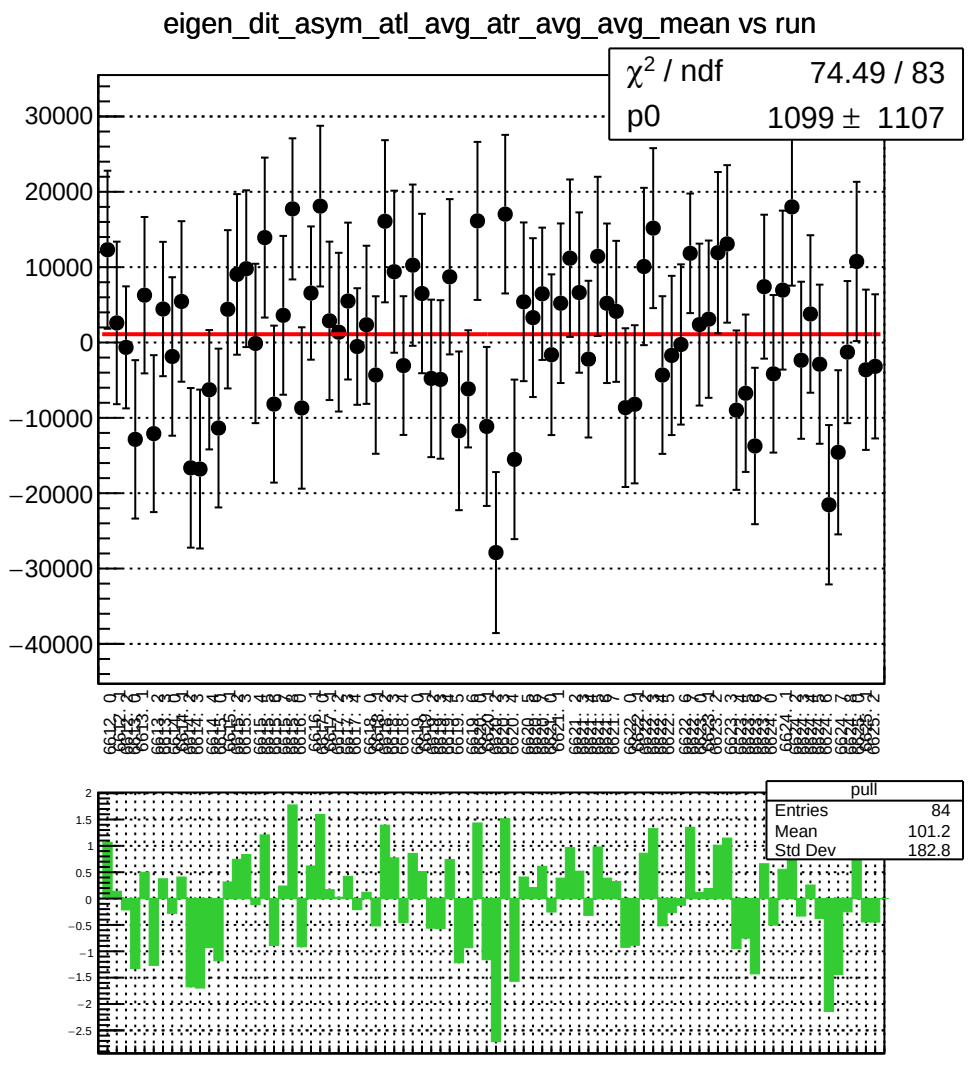

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 74.49 / 83
p0 1099 ± 1107
pull
Entries 84
Mean 101.2
Std Dev 182.8
pull1D
Entries 84
Mean −0.002005
Std Dev 0.9417

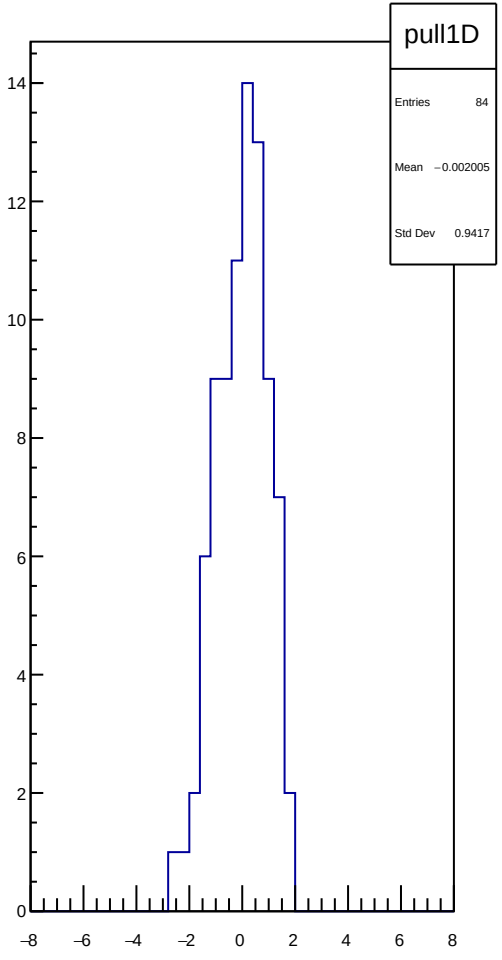

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 176.2 / 83
p0 1000 ± 0.7829
1040
1030
1020
1010
1000
990
980
970

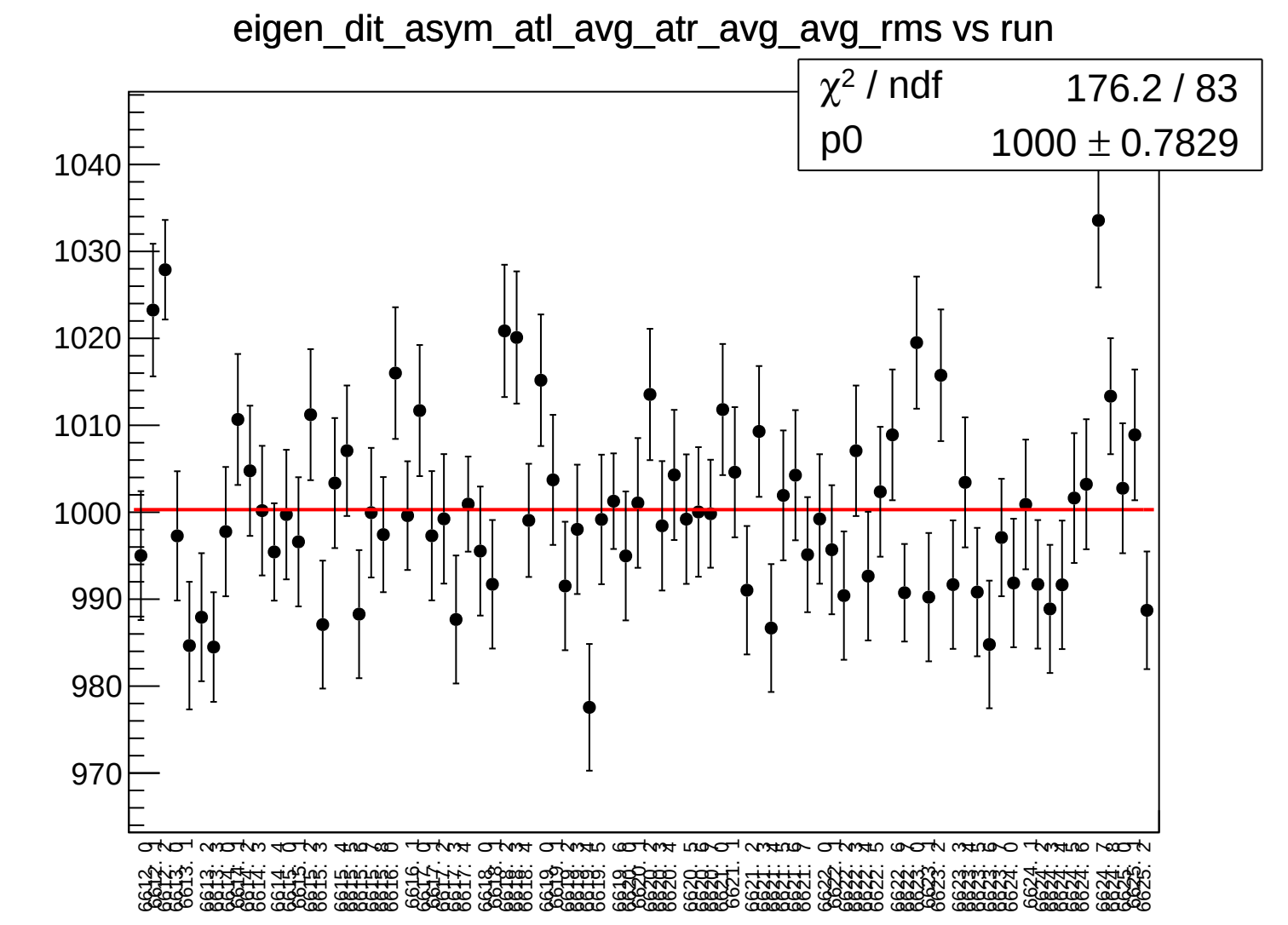

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 80.74 / 83
p0 −2188 ± 3107
pull
Entries 84
Mean 4197
Std Dev 0

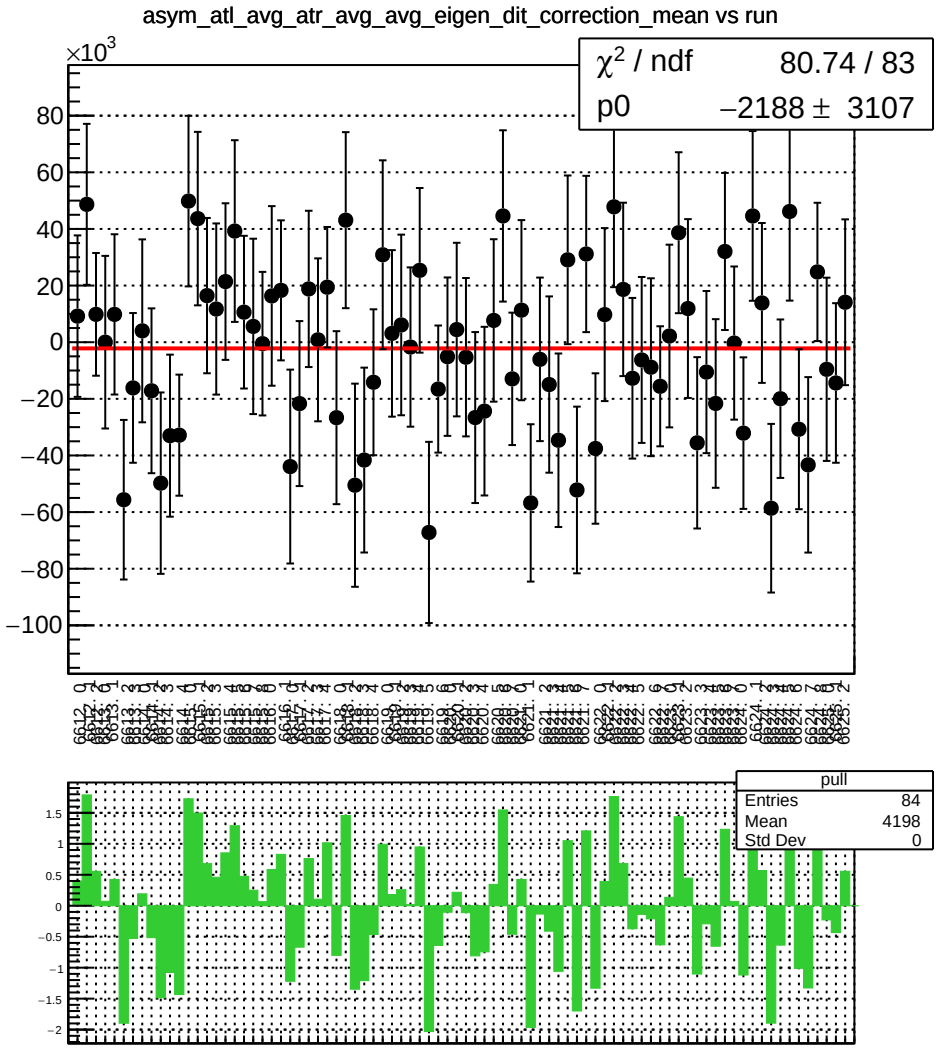

pull1D
Entries 84
Mean −0.000395
Std Dev 0.9804

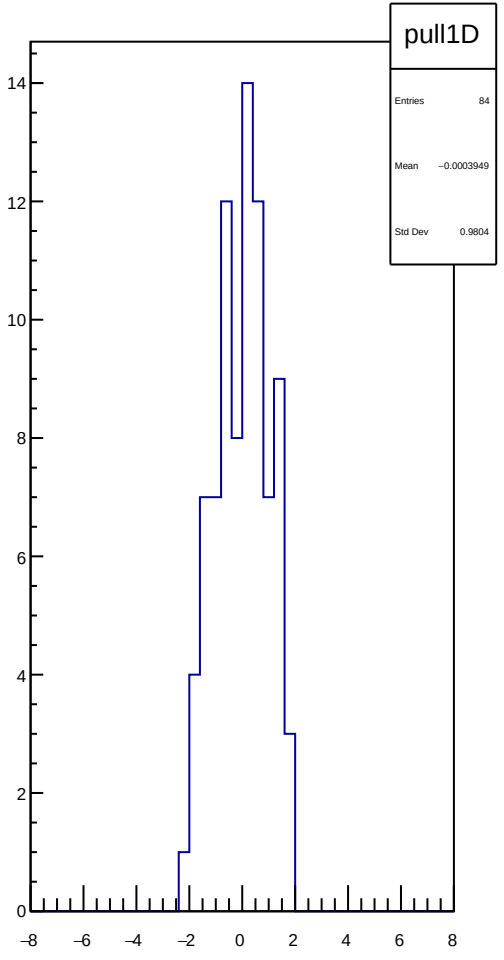

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 5157 / 83
p0 2803 ± 2.197
3400
3200
3000
2800
2600

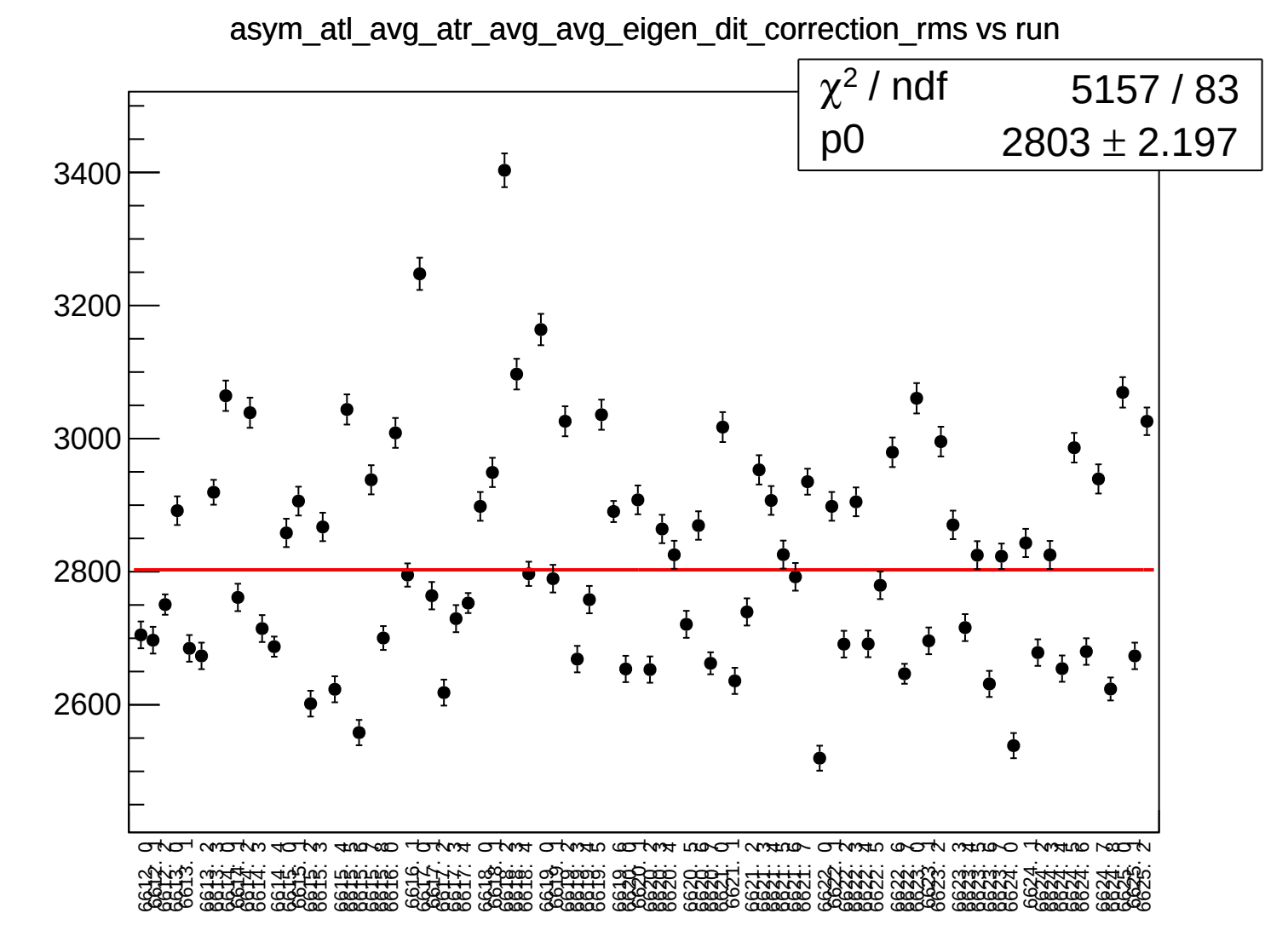

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 74.49 / 83
p0 1099 ± 1107
pull
Entries 84
Mean 101.2
Std Dev 182.8

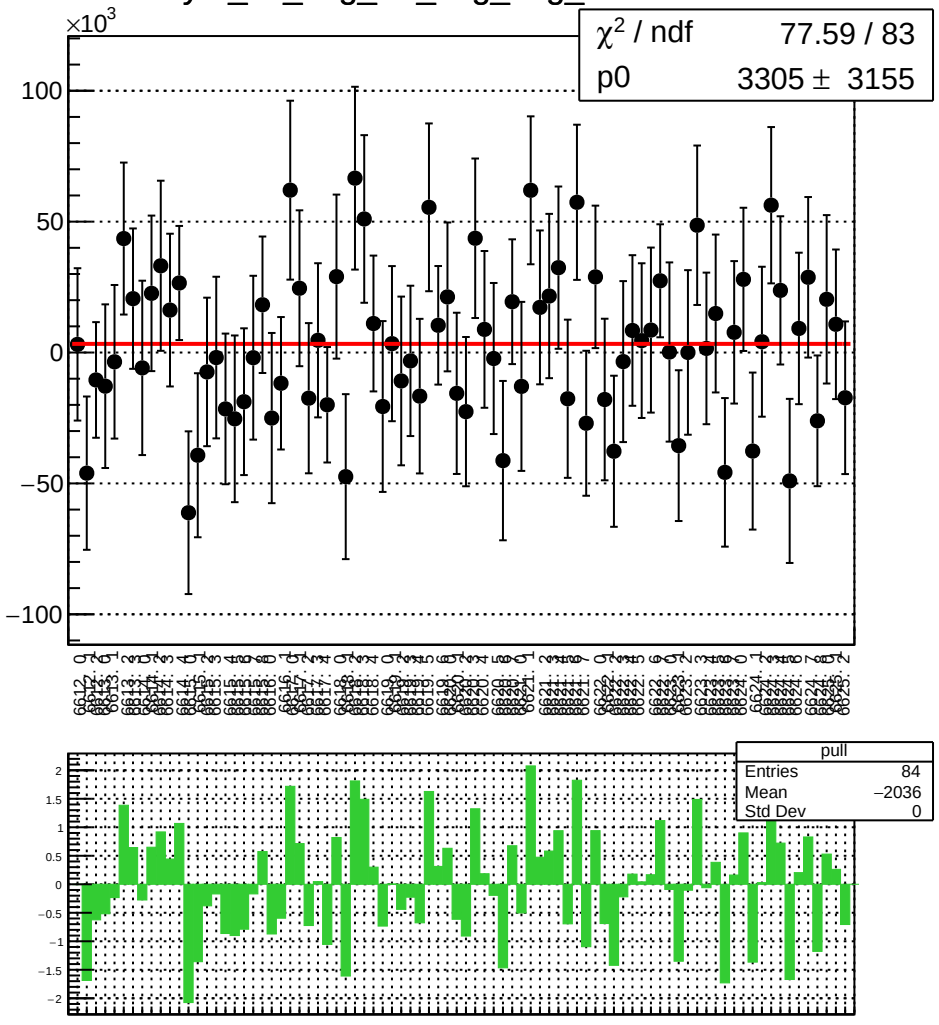

pull1D
Entries 84
Mean −0.002005
Std Dev 0.9417

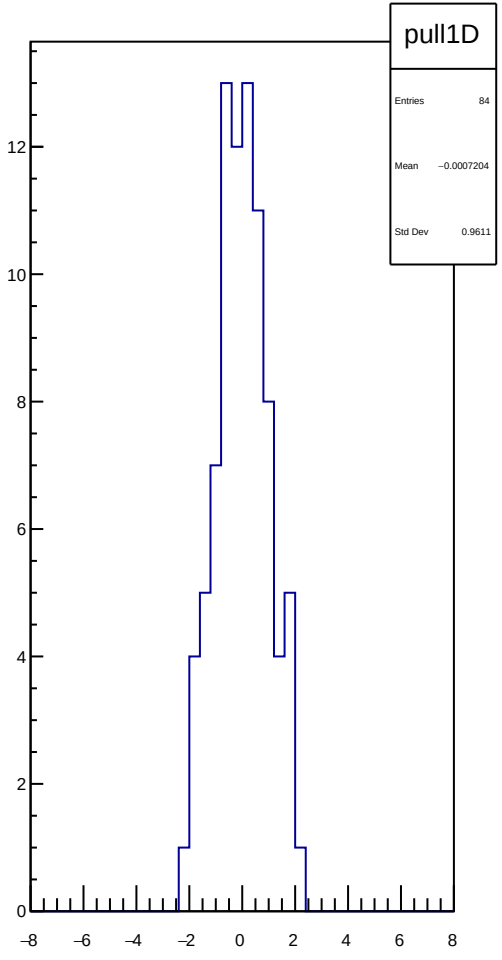

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 176.2 / 83
p0 1000 ± 0.7829
1040
1030
1020
1010
1000
990
980
970

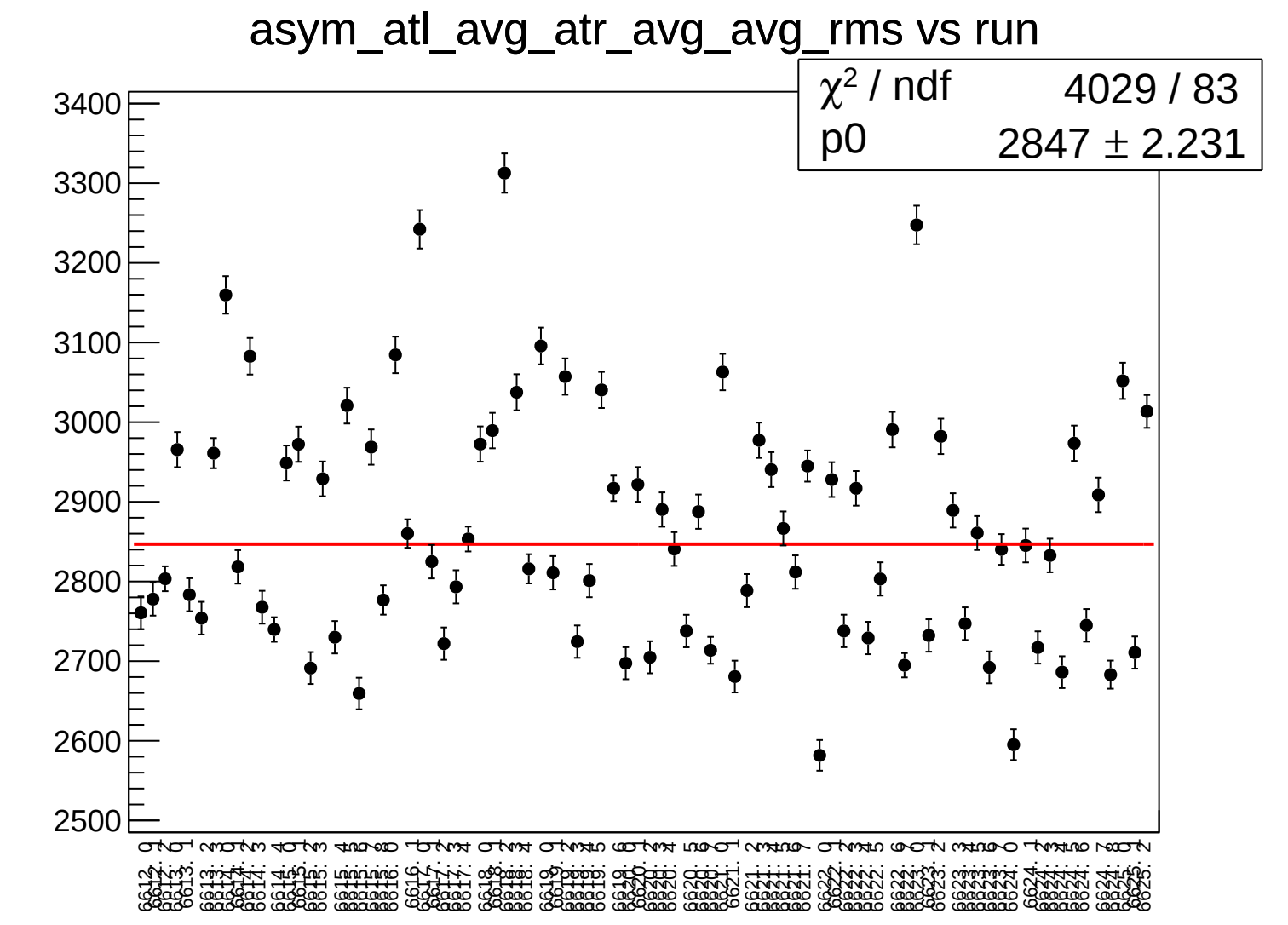

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.74 / 83
p0 −2188 ± 3107
pull
Entries 84
Mean 4198
Std Dev 0

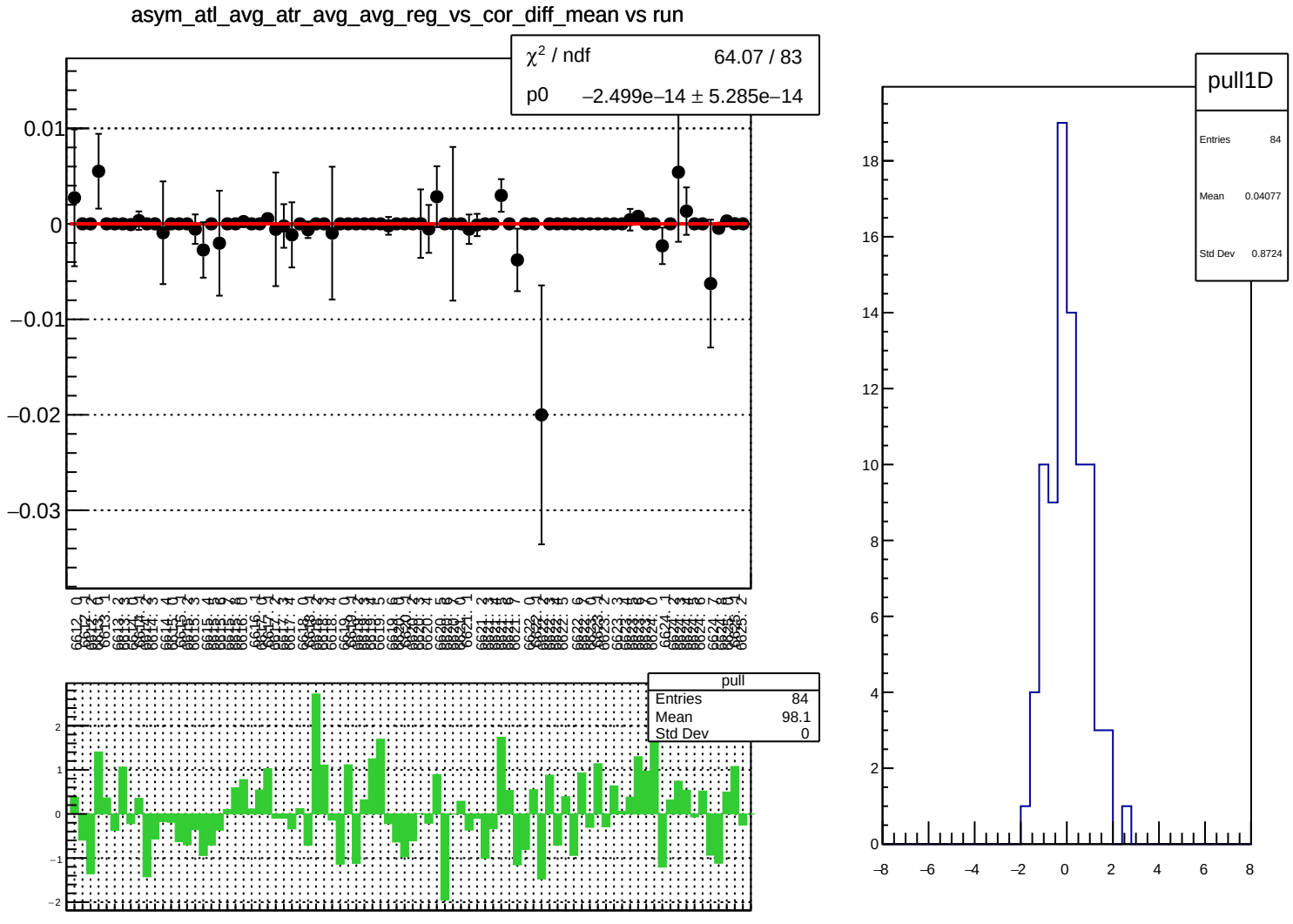

pull1D
Entries 84
Mean −0.0003949
Std Dev 0.9804

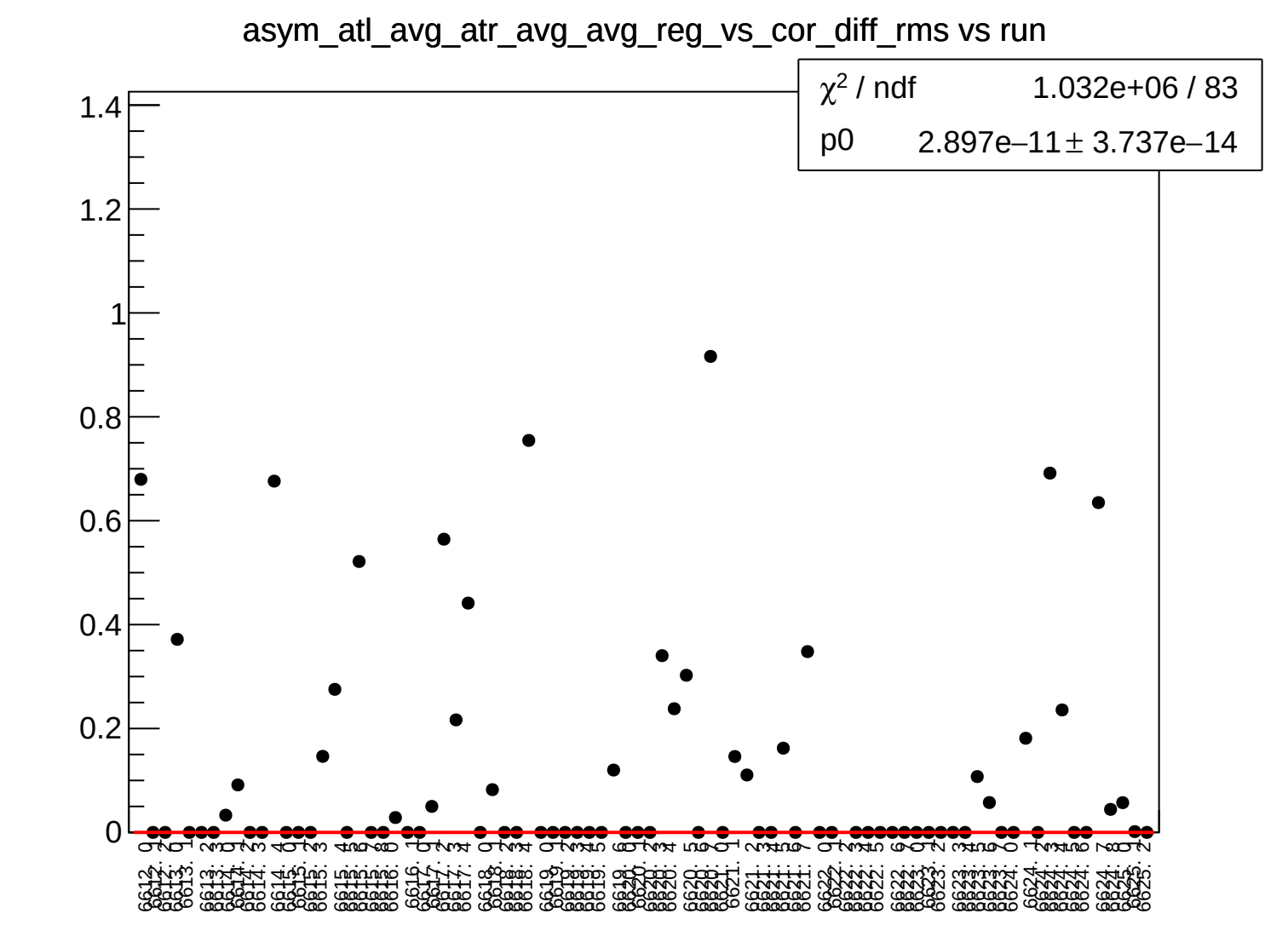

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5157 / 83
p0 2803 ± 2.197
3400
3200
3000
2800
2600

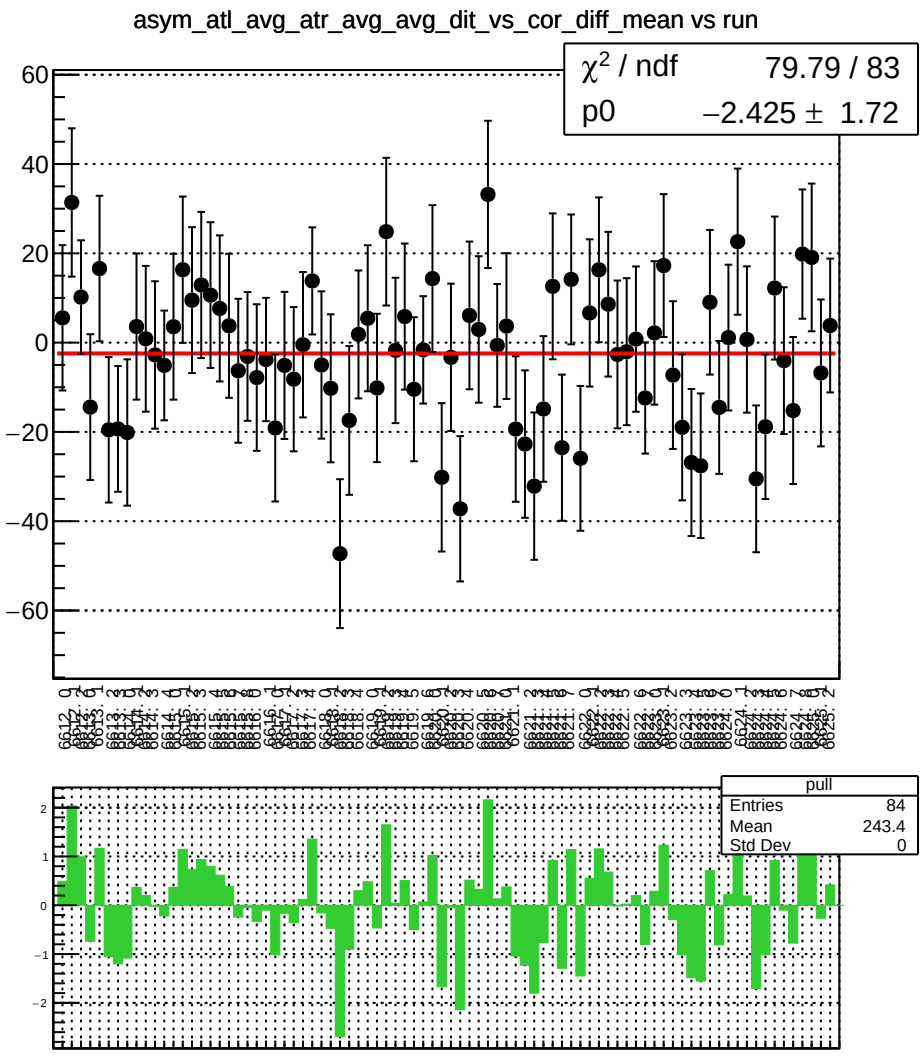

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 77.59 / 83
p0 3305 ± 3155
100
50
0
−50
−100
pull
Entries 84
Mean −2036
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

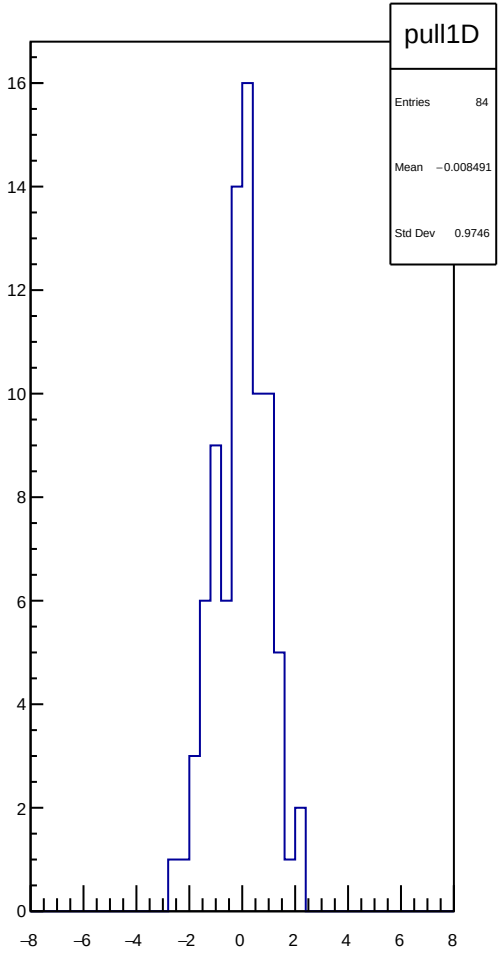

pull1D
Entries 84
Mean −0.0007204
Std Dev 0.9611
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

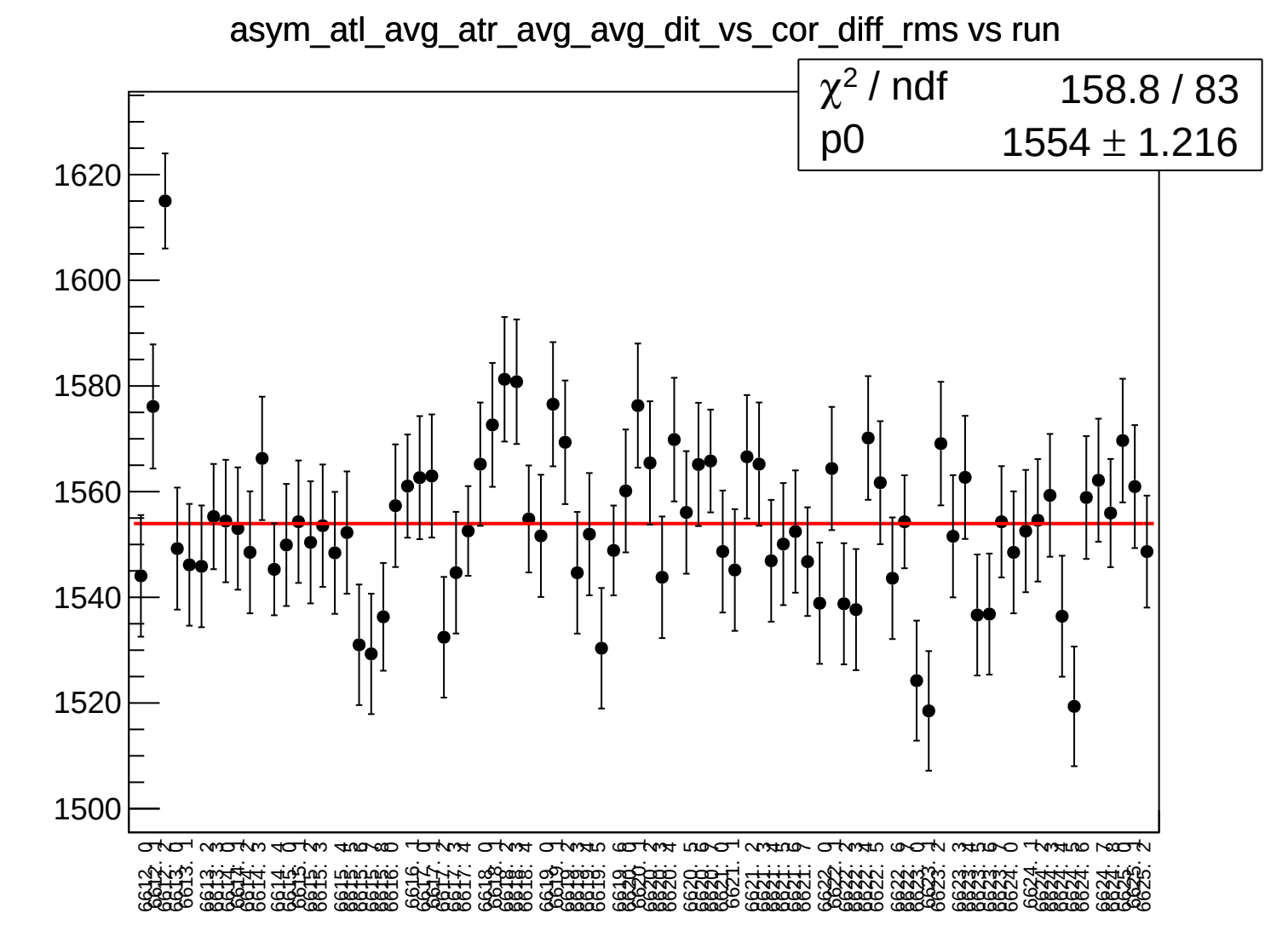

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4029 / 83
p0 2847 ± 2.231
3400
3300
3200
3100
3000
2900
2800
2700
2600
2500

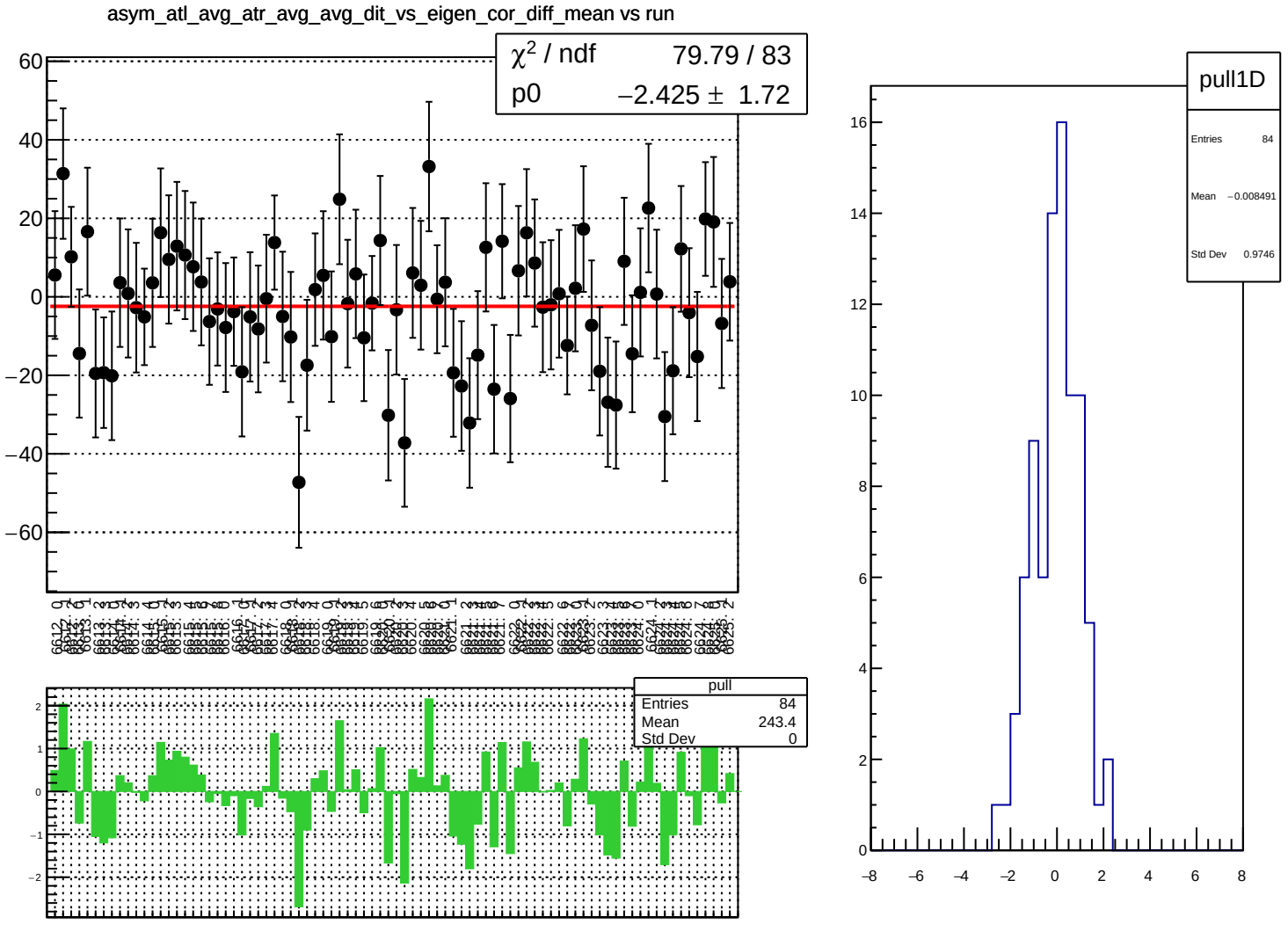

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 64.07 / 83
p0 −2.499e−14 ± 5.285e−14
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean 98.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.04077
Std Dev 0.8724
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

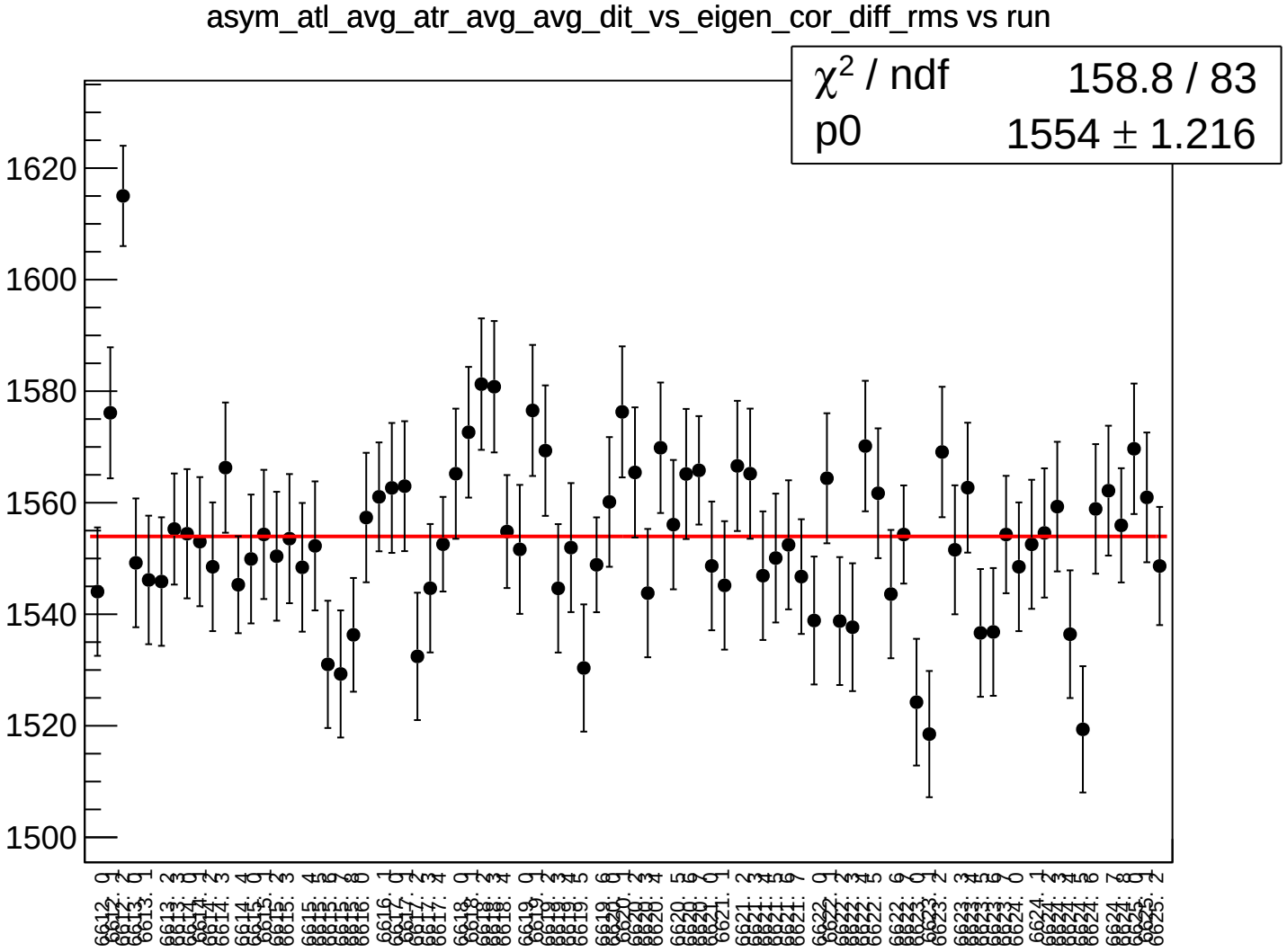

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.032e+06 / 83
p0 2.897e−11 ± 3.737e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

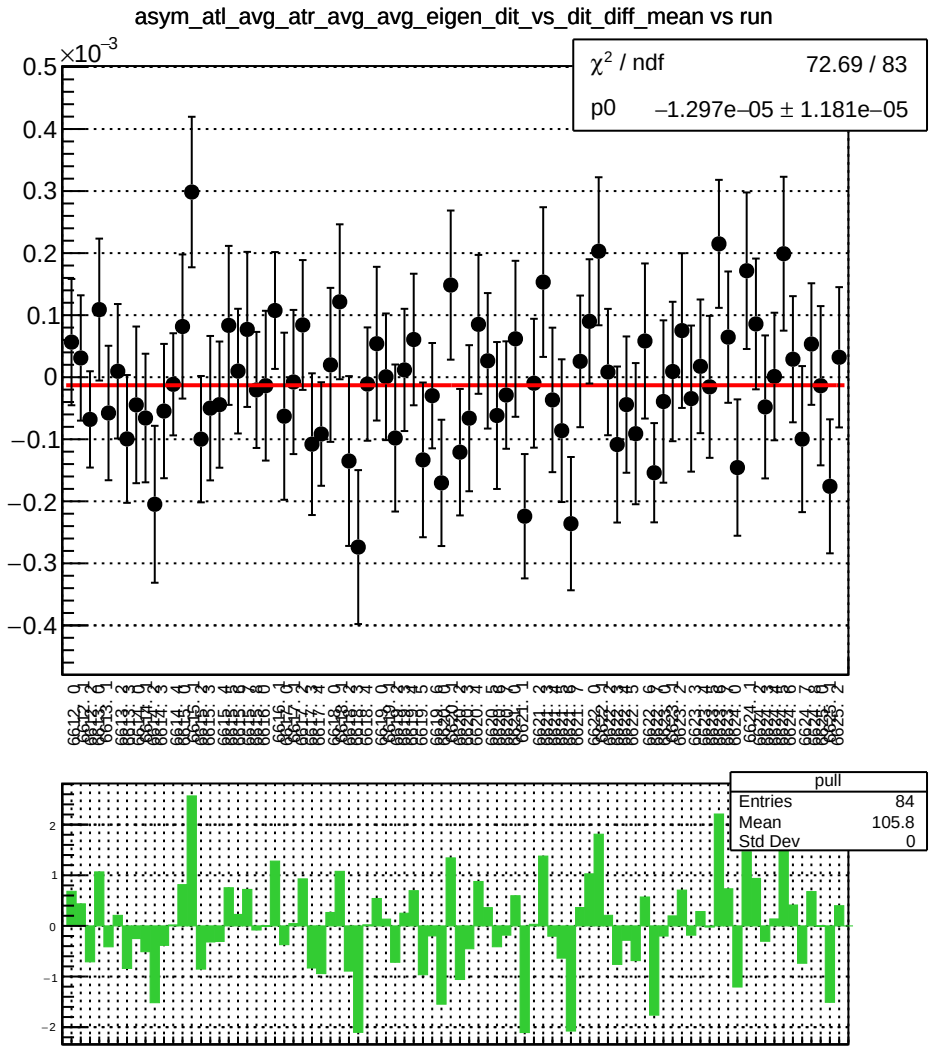

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.79 / 83
p0 −2.425 ± 1.72
pull
Entries 84
Mean 243.4
Std Dev 0

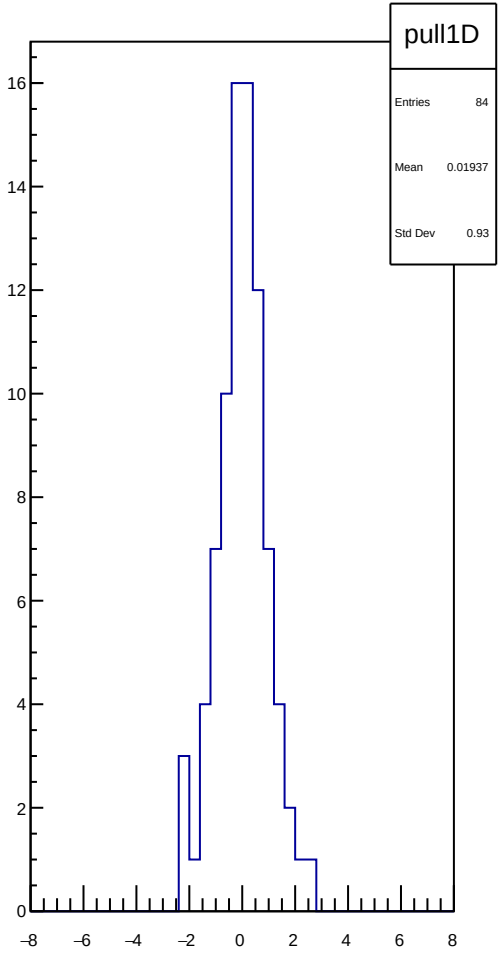

pull1D
Entries 84
Mean −0.008491
Std Dev 0.9746

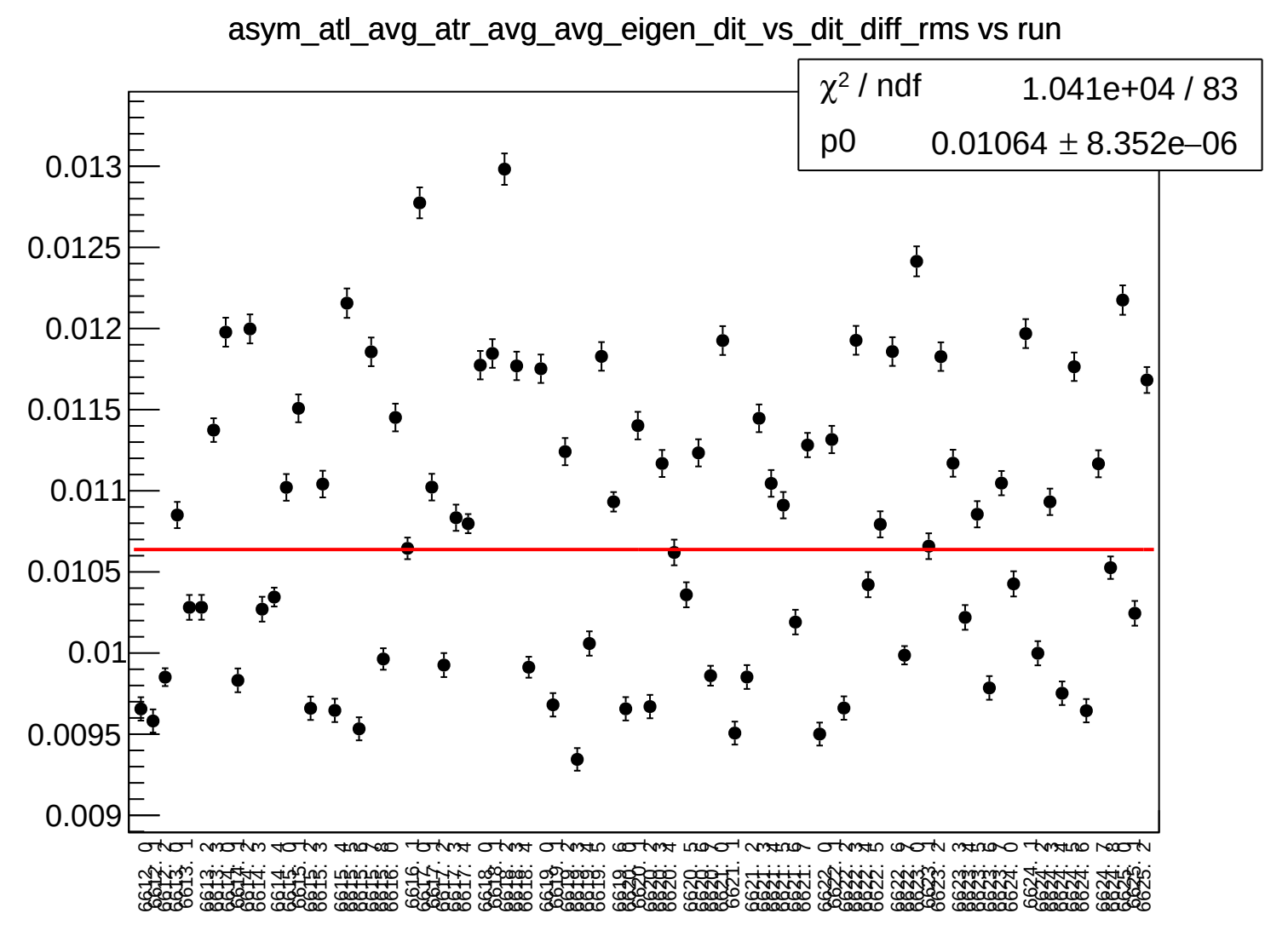

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 158.8 / 83
p0 1554 ± 1.216
1620
1600
1580
1560
1540
1520
1500

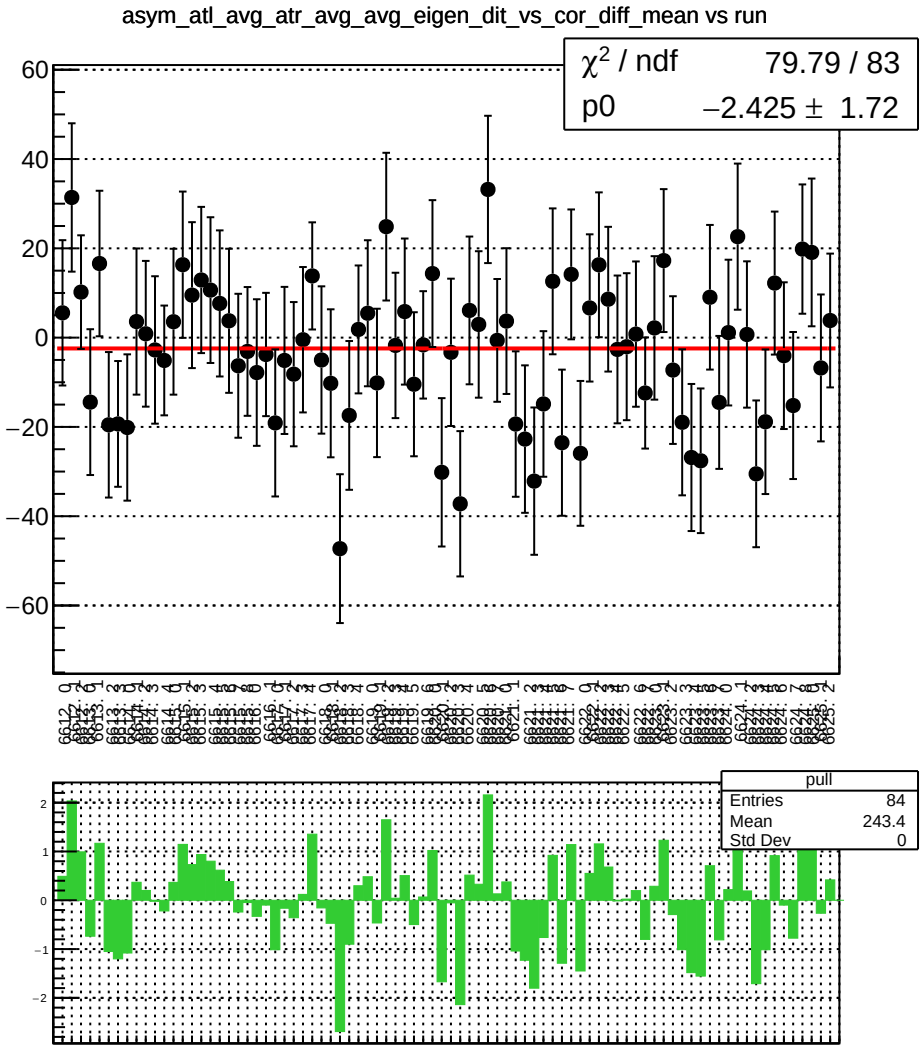

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.79 / 83
p0 −2.425 ± 1.72
pull
Entries 84
Mean 243.4
Std Dev 0
pull1D
Entries 84
Mean −0.008491
Std Dev 0.9746

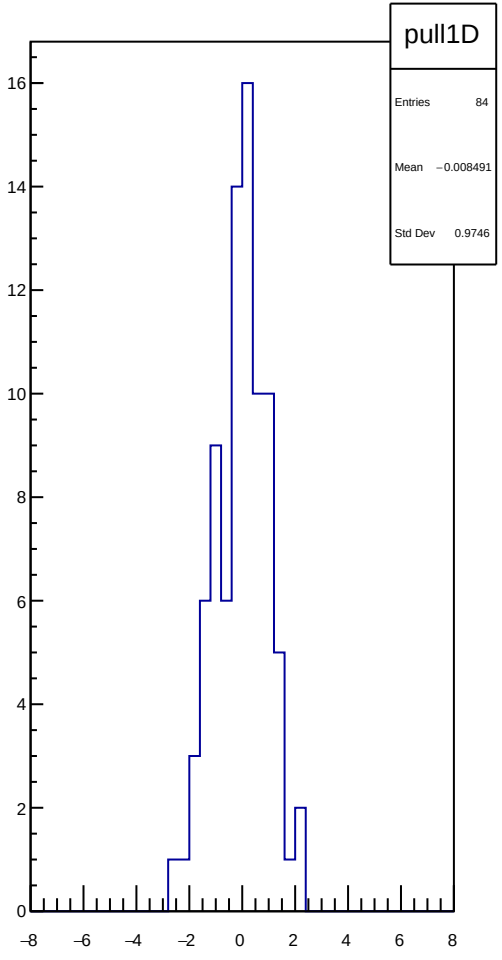

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 158.8 / 83
p0 1554 ± 1.216
1620
1600
1580
1560
1540
1520
1500

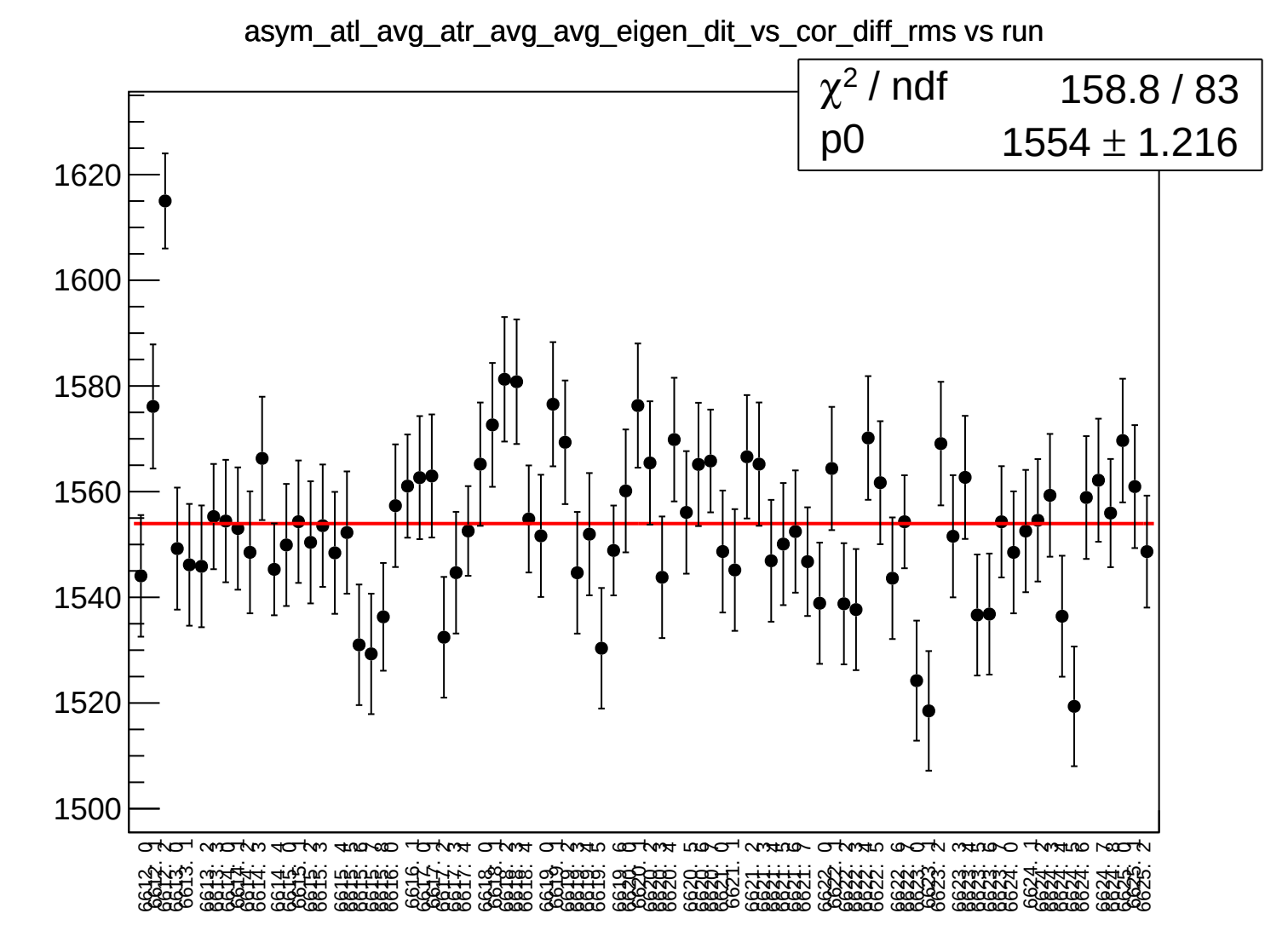

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 72.69 / 83
p0 −1.297e−05 ± 1.181e−05
×10⁻³
pull
Entries 84
Mean 105.8
Std Dev 0

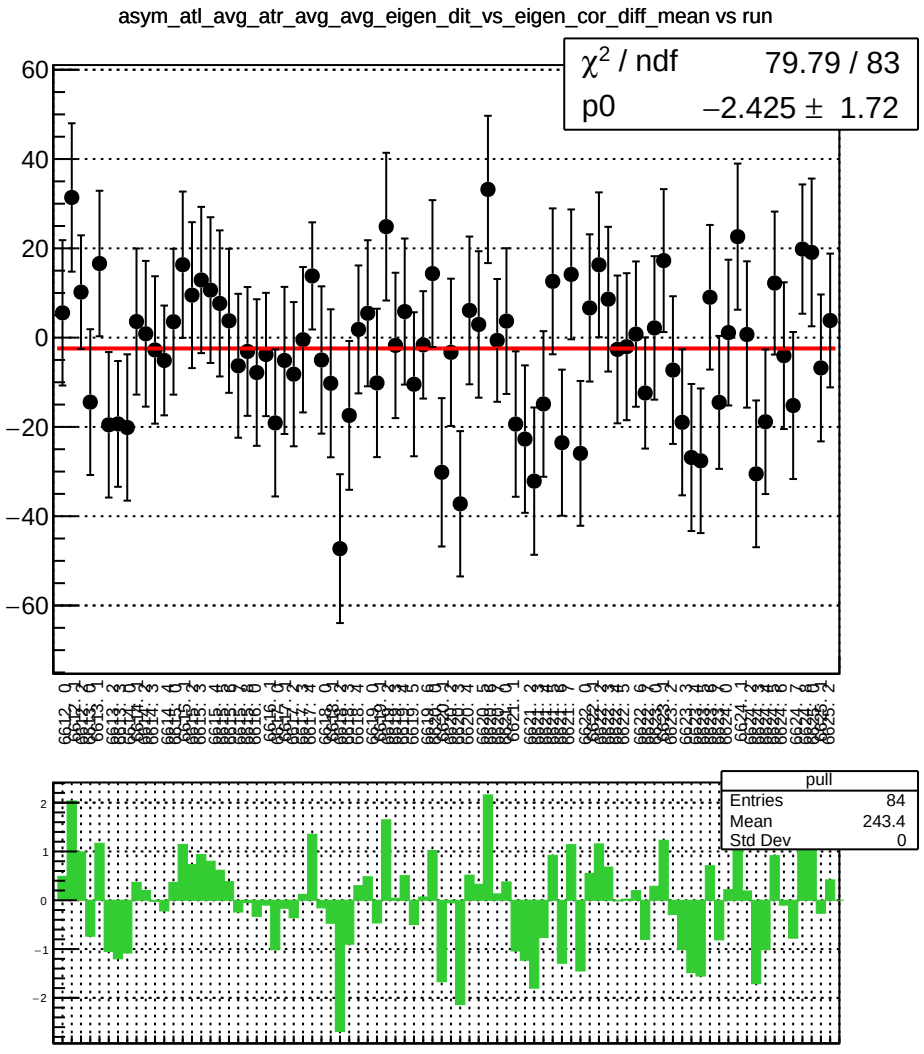

pull1D
Entries 84
Mean 0.01937
Std Dev 0.93

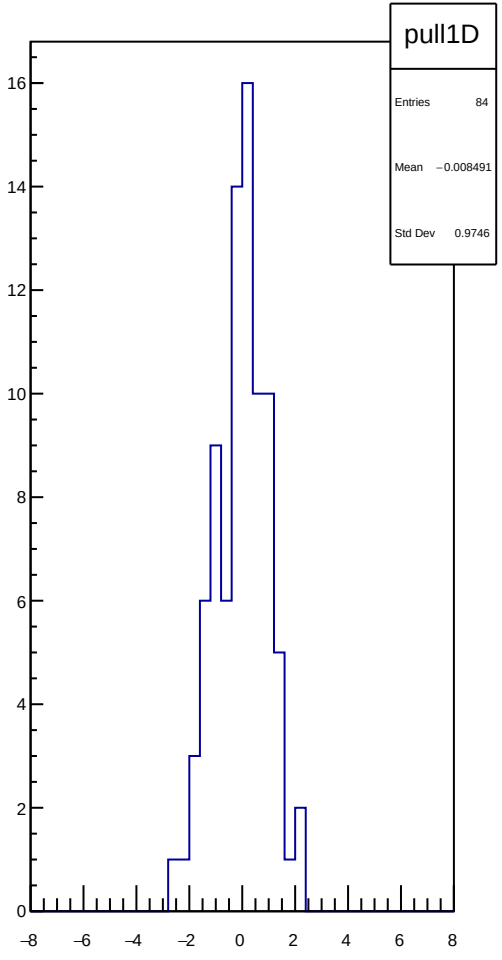

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.041e+04 / 83
p0 0.01064 ± 8.352e−06
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

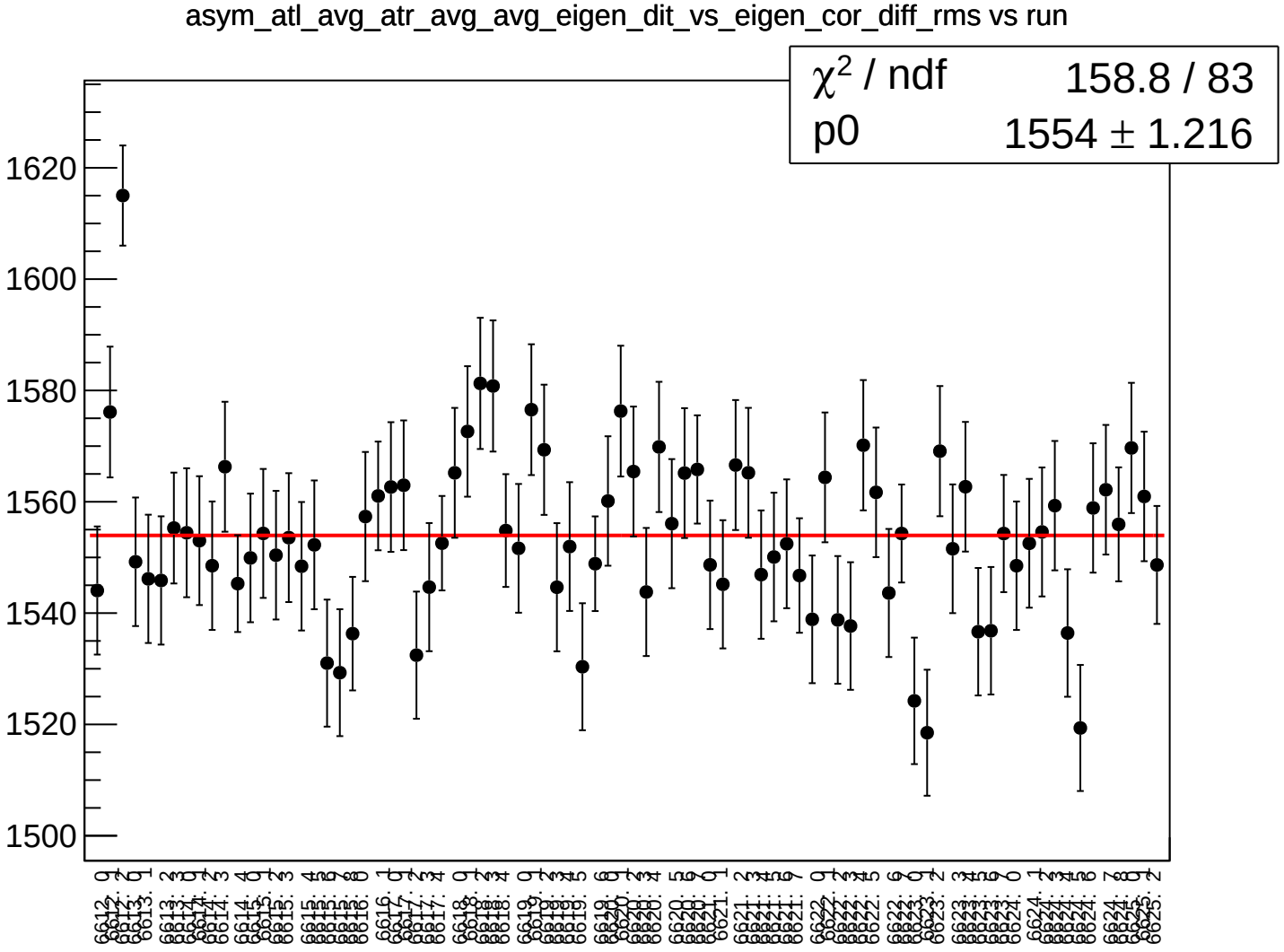

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.79 / 83
p0 −2.425 ± 1.72
pull
Entries 84
Mean 243.4
Std Dev 0

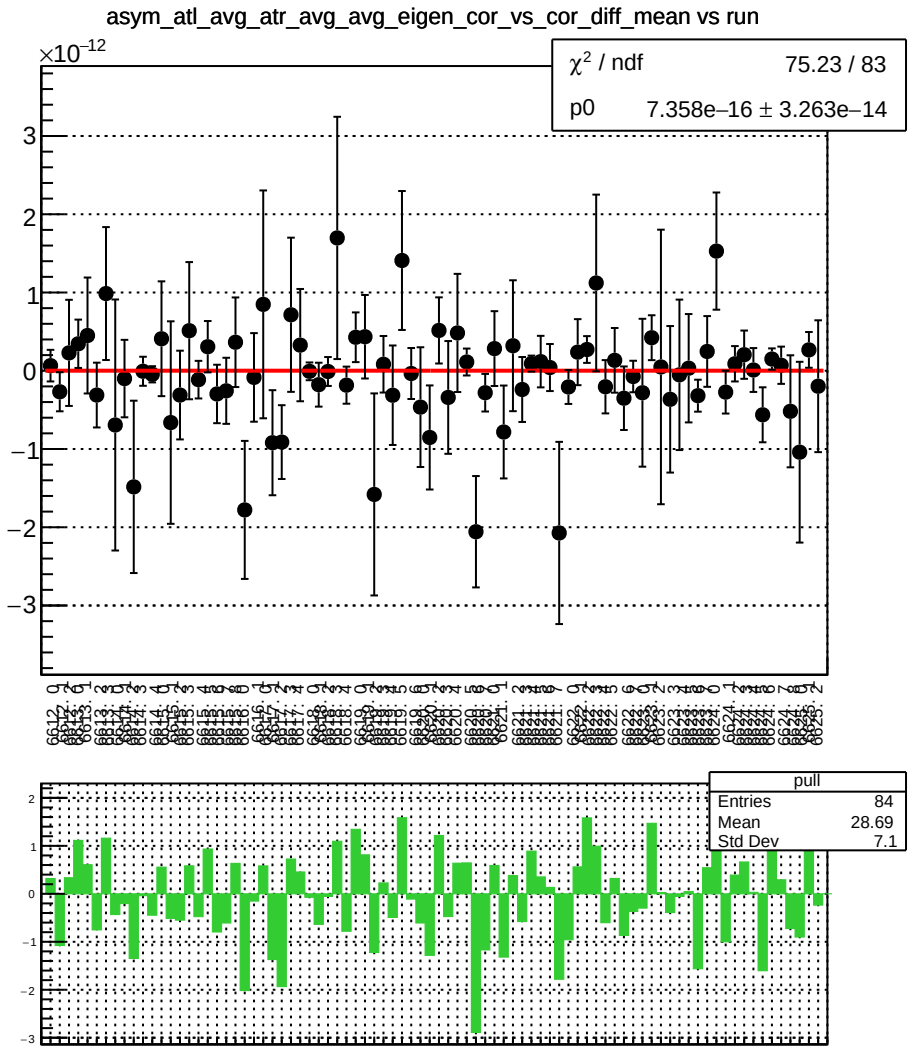

pull1D
Entries 84
Mean −0.008491
Std Dev 0.9746

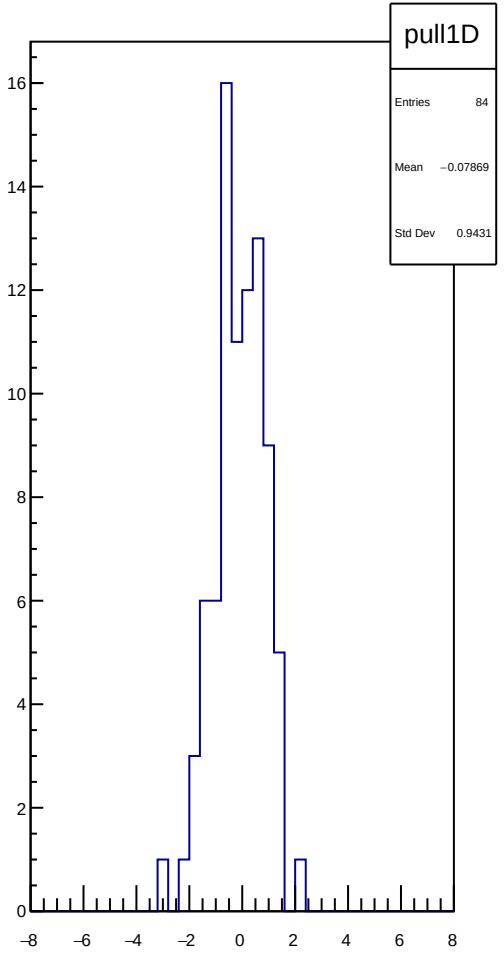

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 158.8 / 83
p0 1554 ± 1.216
1620
1600
1580
1560
1540
1520
1500

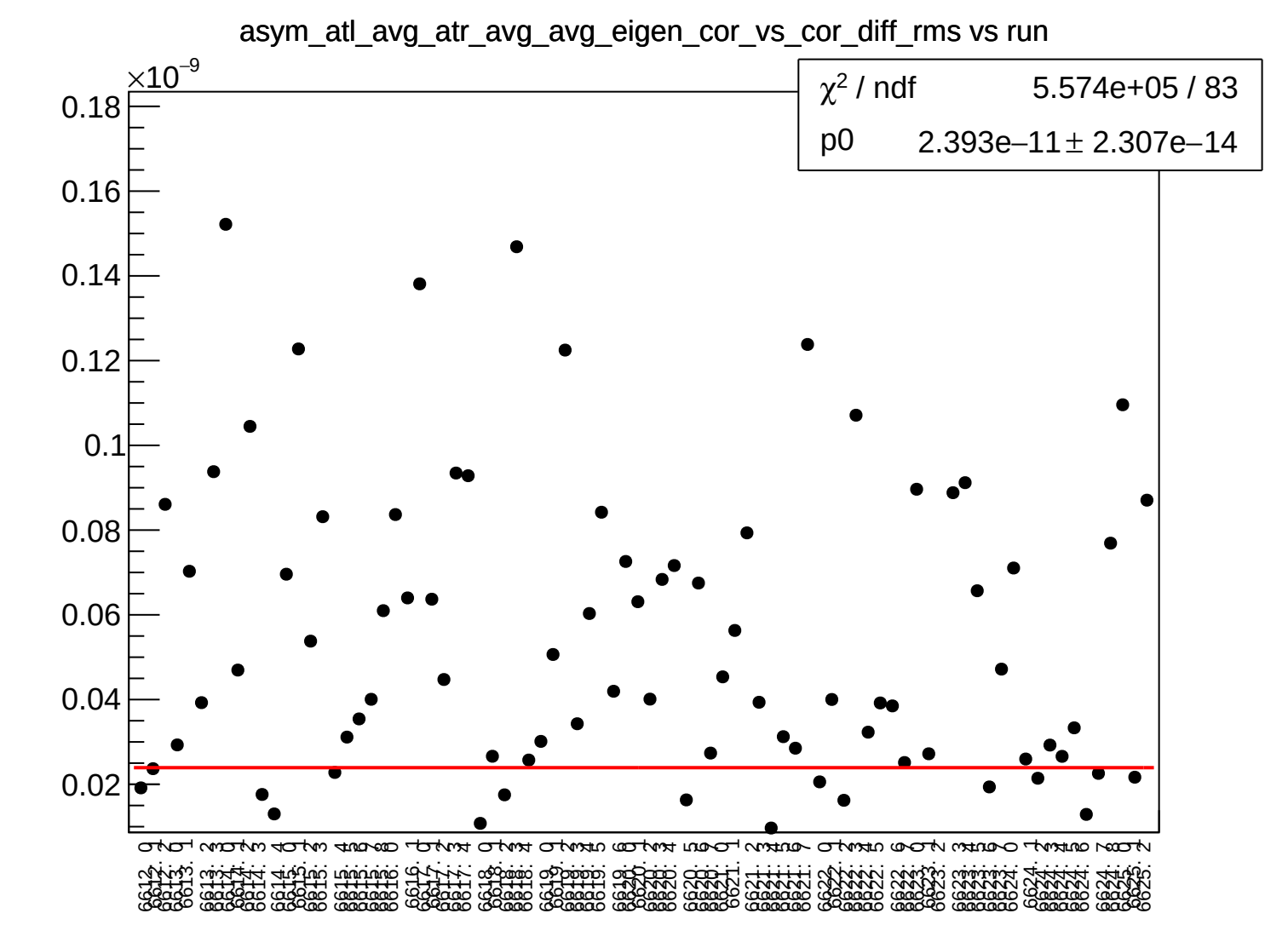

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.79 / 83
p0 −2.425 ± 1.72
pull
Entries 84
Mean 243.4
Std Dev 0

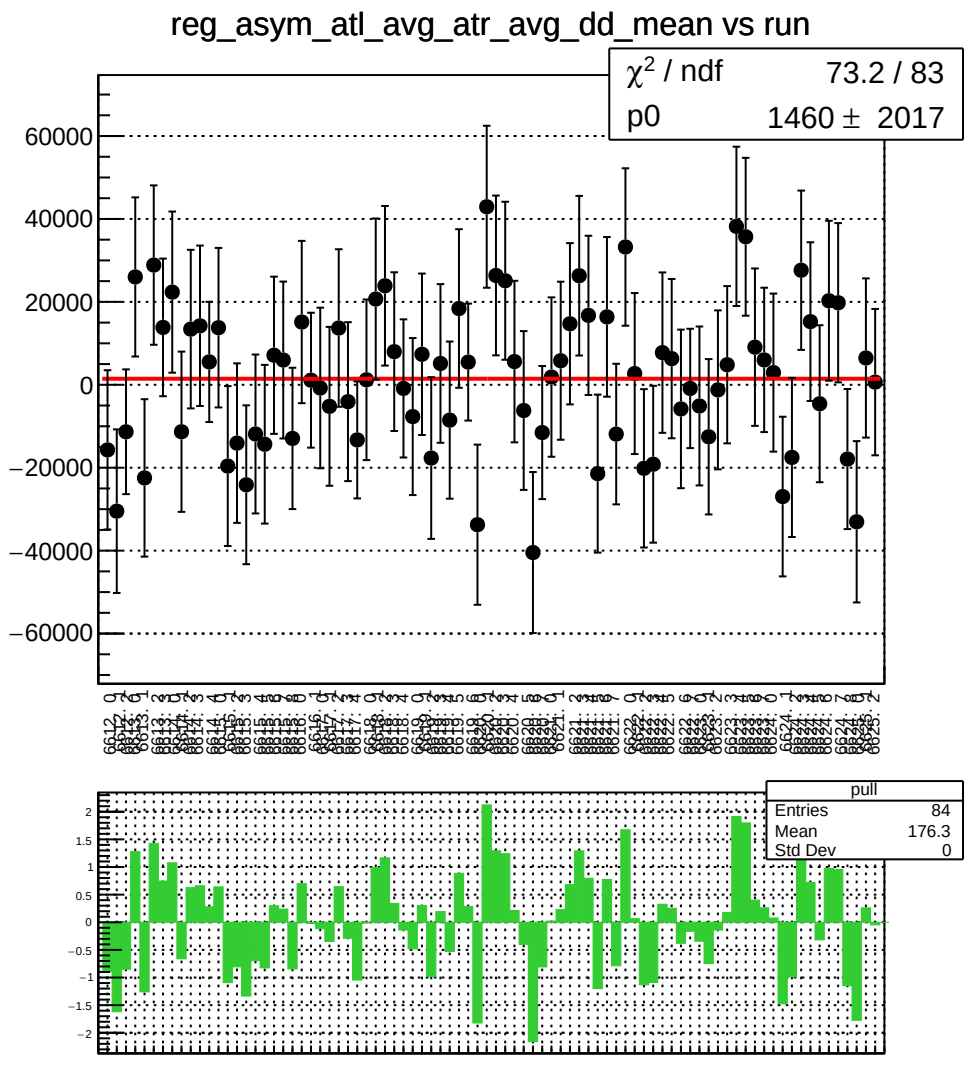

pull1D
Entries 84
Mean −0.008491
Std Dev 0.9746

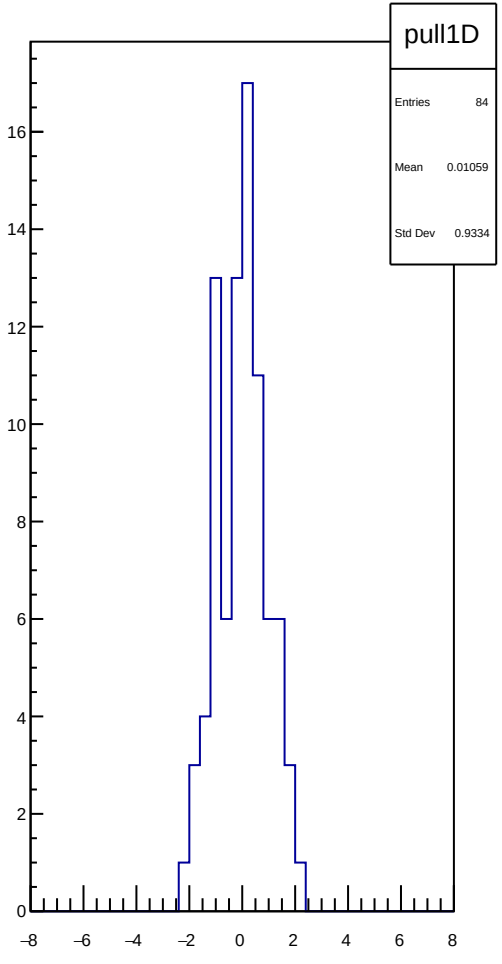

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 158.8 / 83
p0 1554 ± 1.216
1620
1600
1580
1560
1540
1520
1500

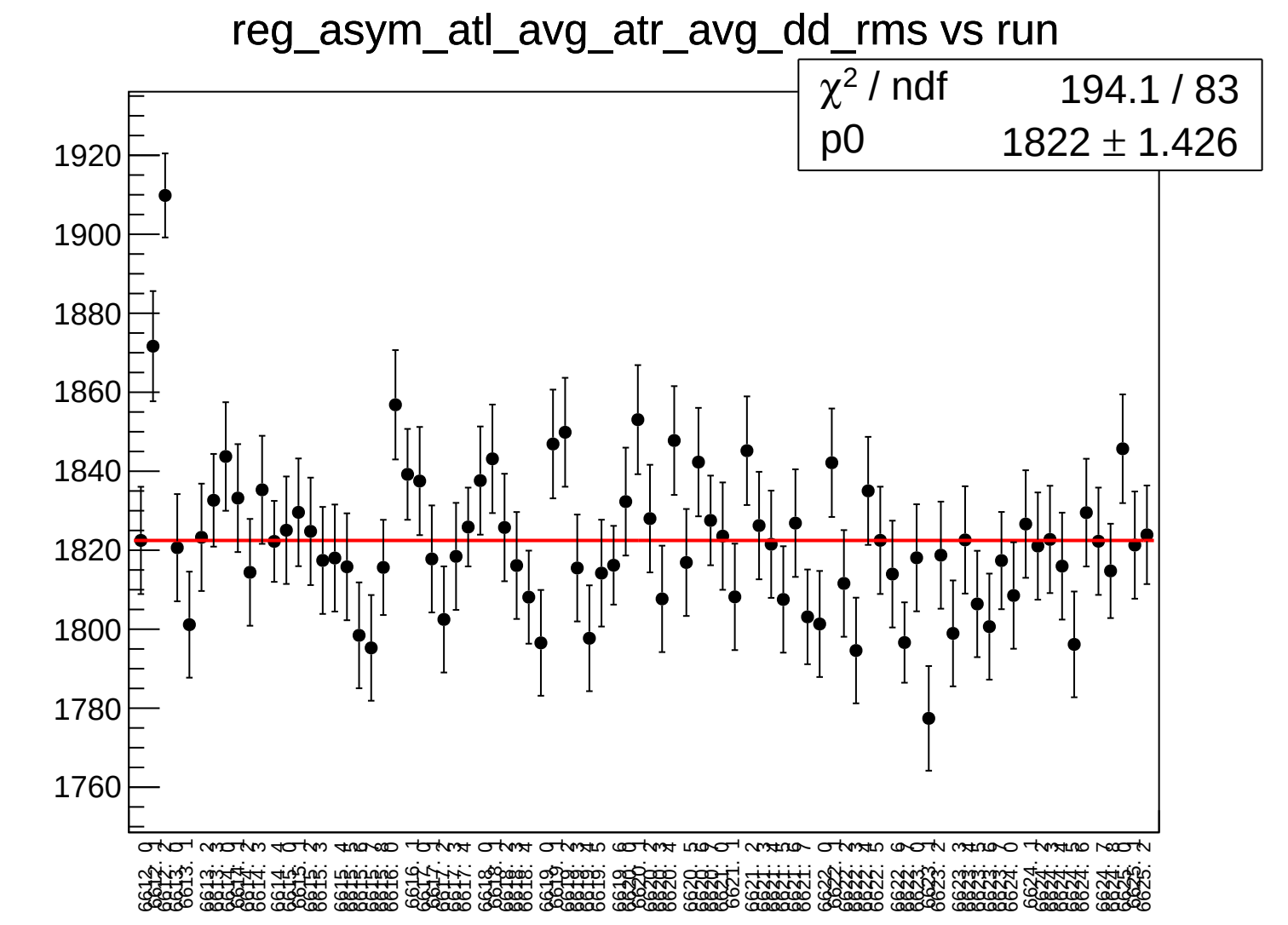

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.23 / 83
p0 7.358e−16 ± 3.263e−14
pull
Entries 84
Mean 28.69
Std Dev 7.1

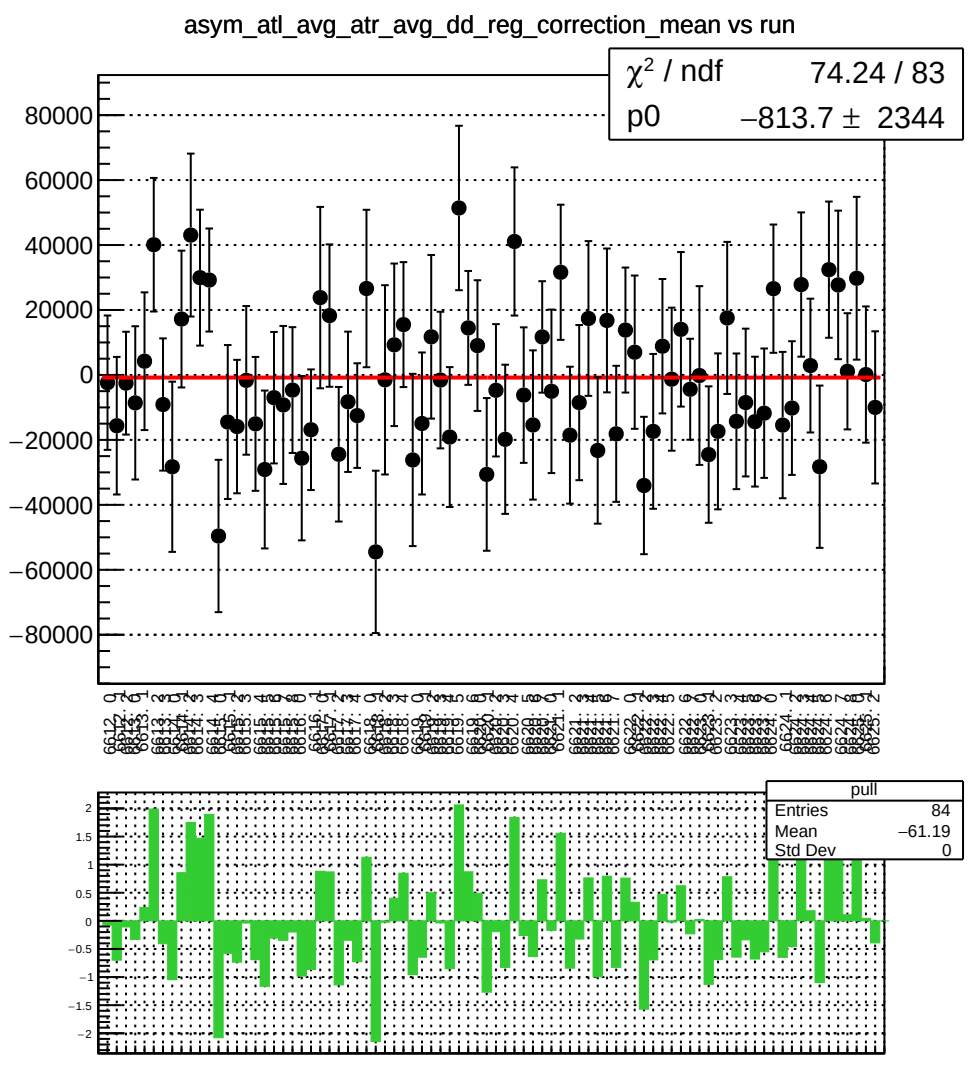

pull1D
Entries 84
Mean −0.07869
Std Dev 0.9431

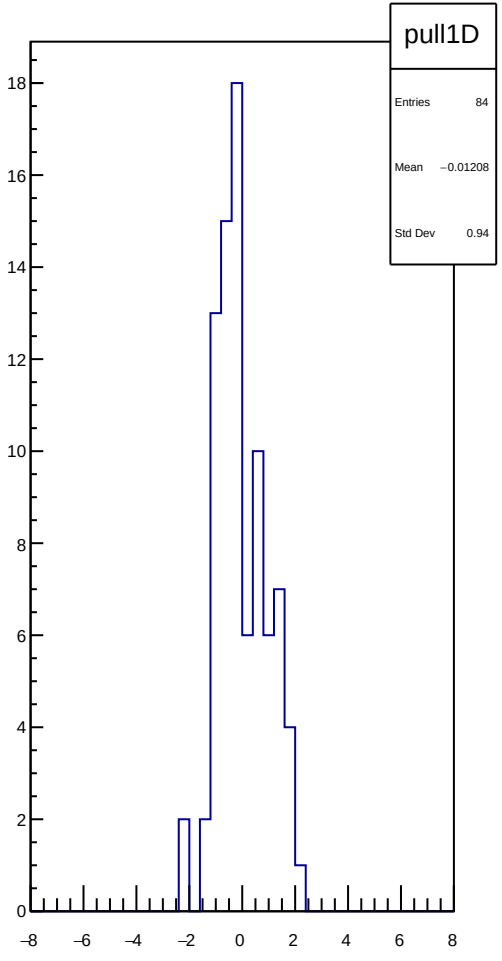

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.574e+05 / 83
p0 2.393e−11 ± 2.307e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

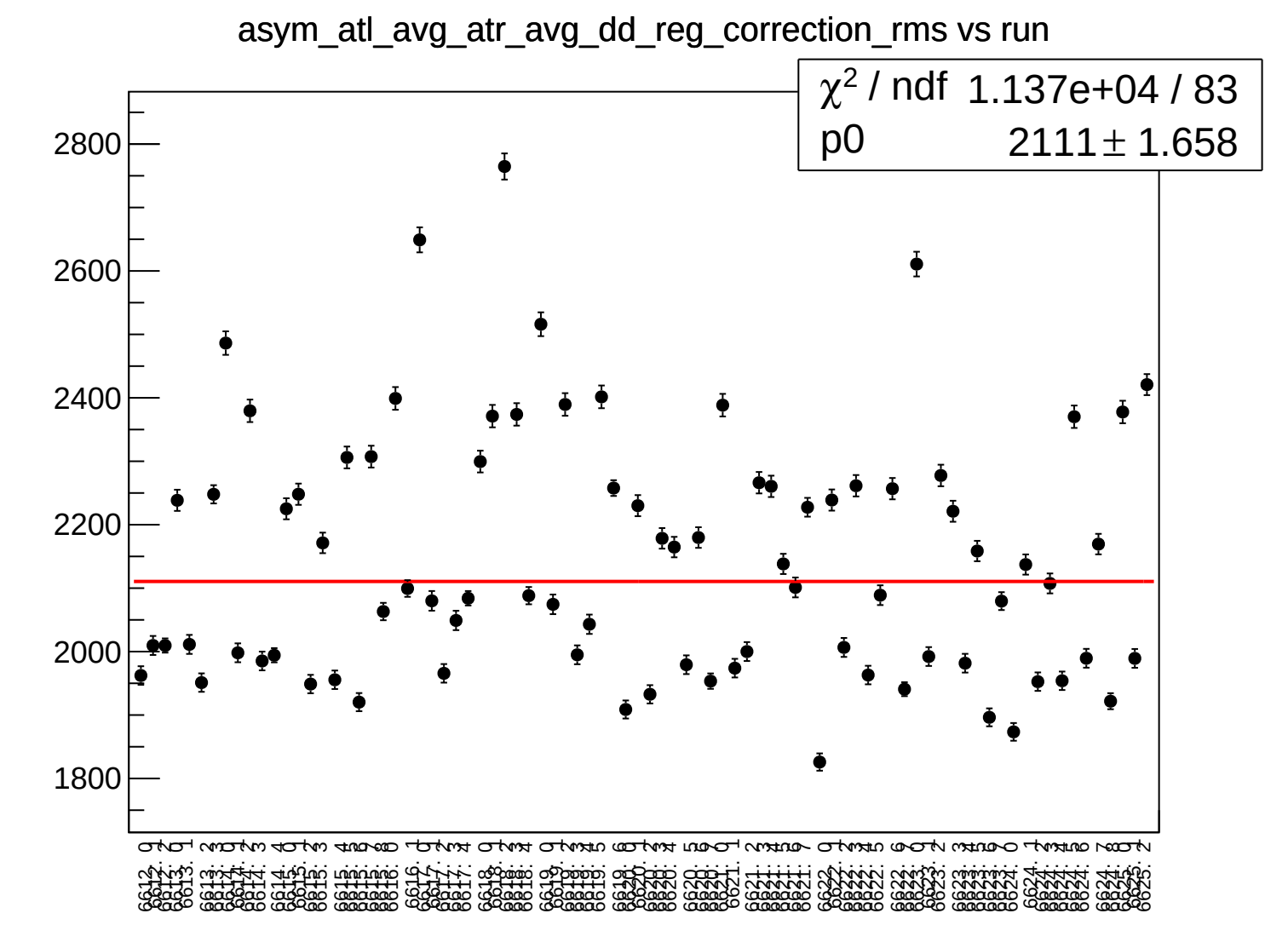

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ^2 / ndf 73.2 / 83
p0 1460 ± 2017
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 176.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

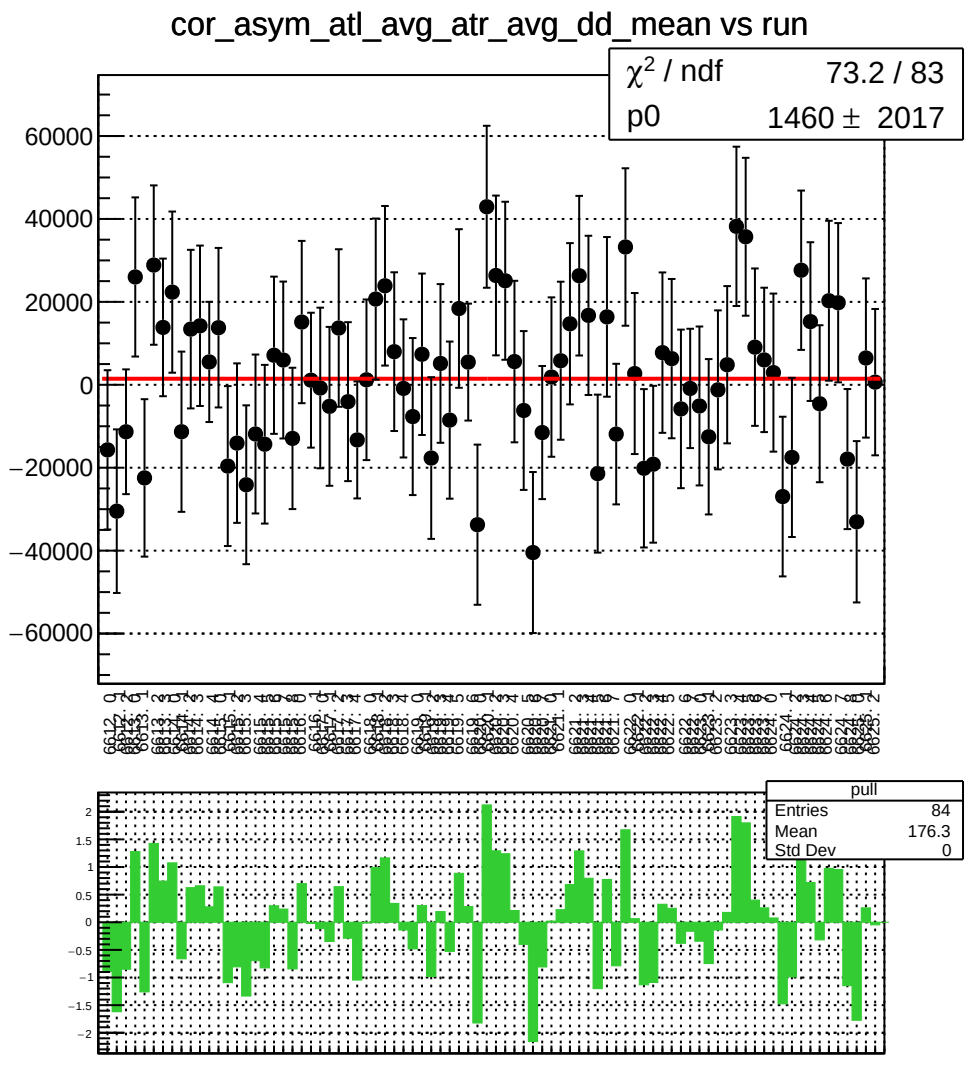

pull1D
Entries 84
Mean 0.01059
Std Dev 0.9334
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

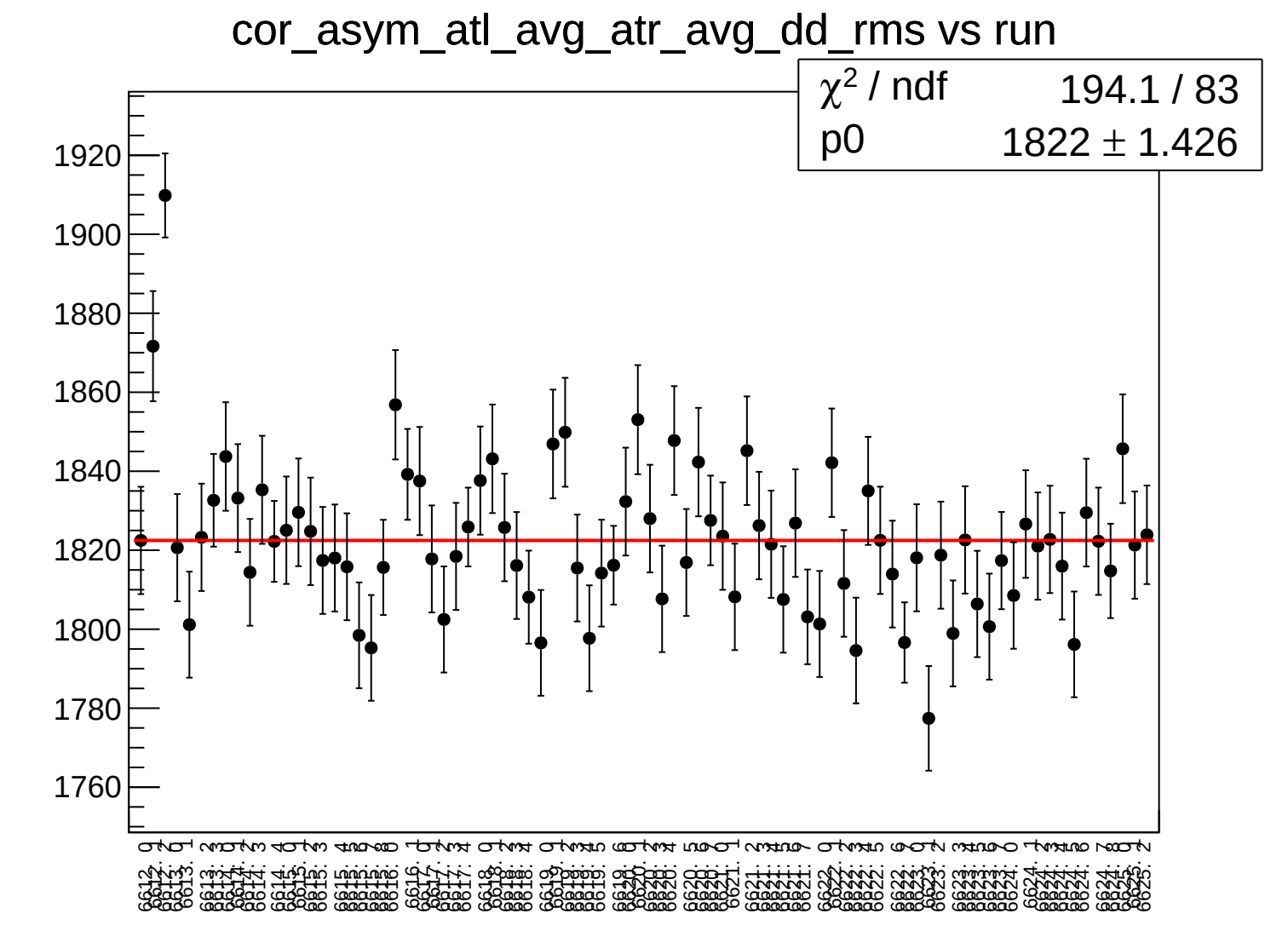

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 194.1 / 83
p0 1822 ± 1.426
1920
1900
1880
1860
1840
1820
1800
1780
1760

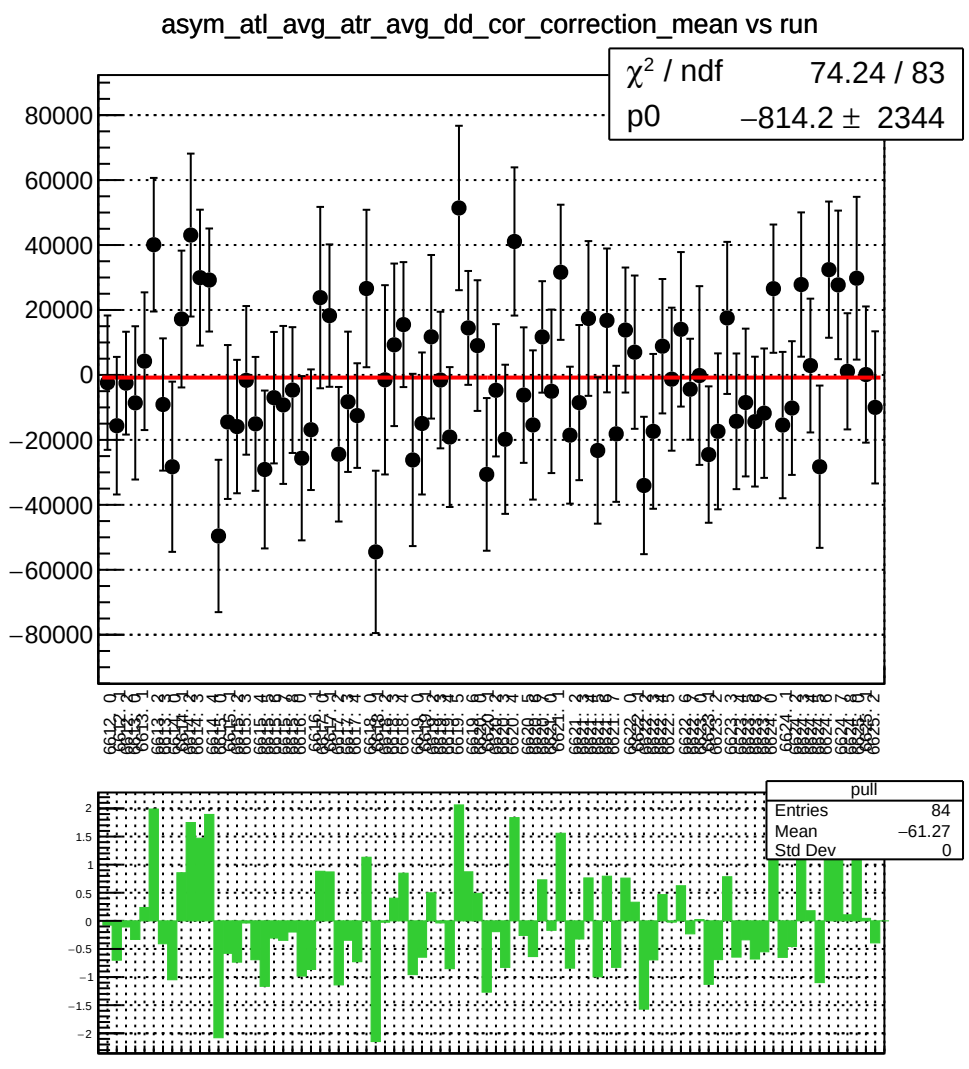

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 74.24 / 83
p0 −813.7 ± 2344
pull
Entries 84
Mean −61.19
Std Dev 0

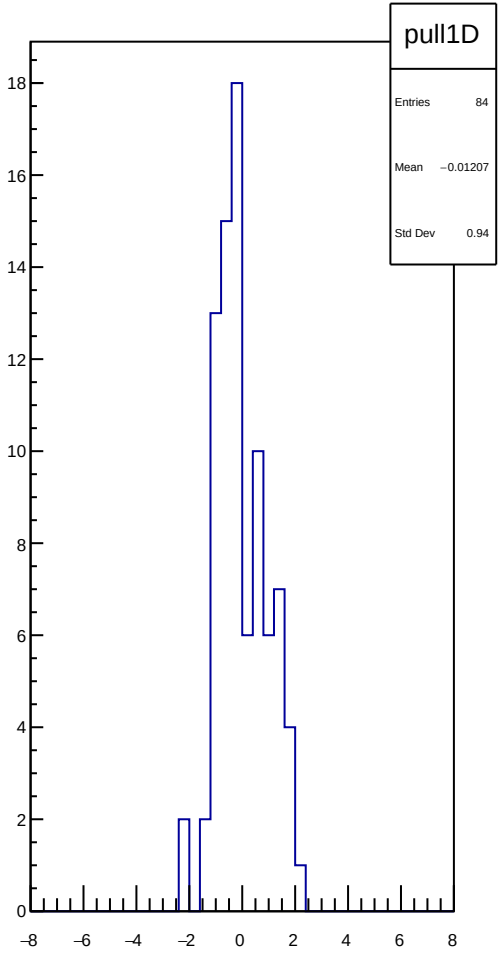

pull1D
Entries 84
Mean −0.01208
Std Dev 0.94

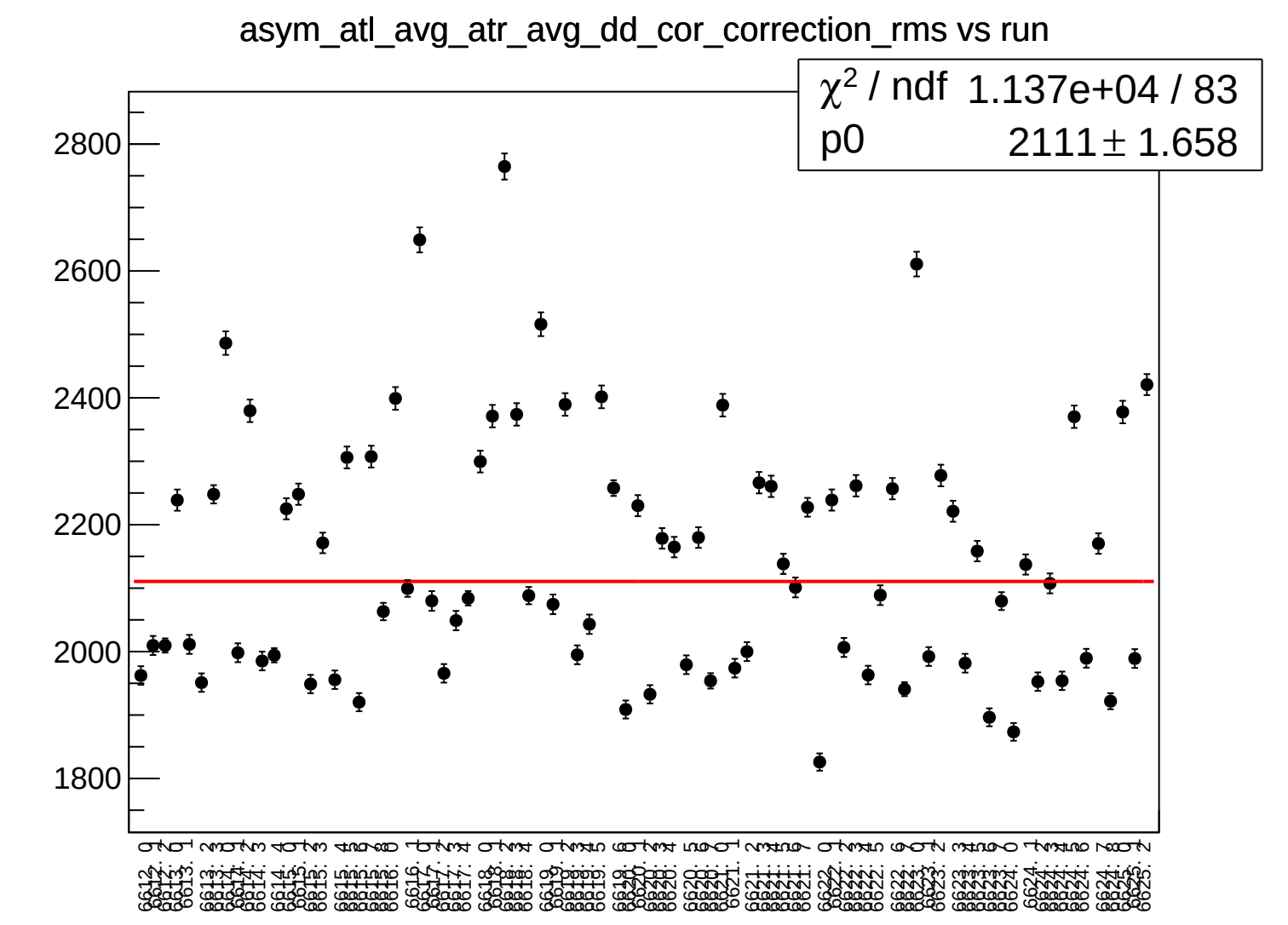

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.137e+04 / 83
p0 2111 ± 1.658
2800
2600
2400
2200
2000
1800

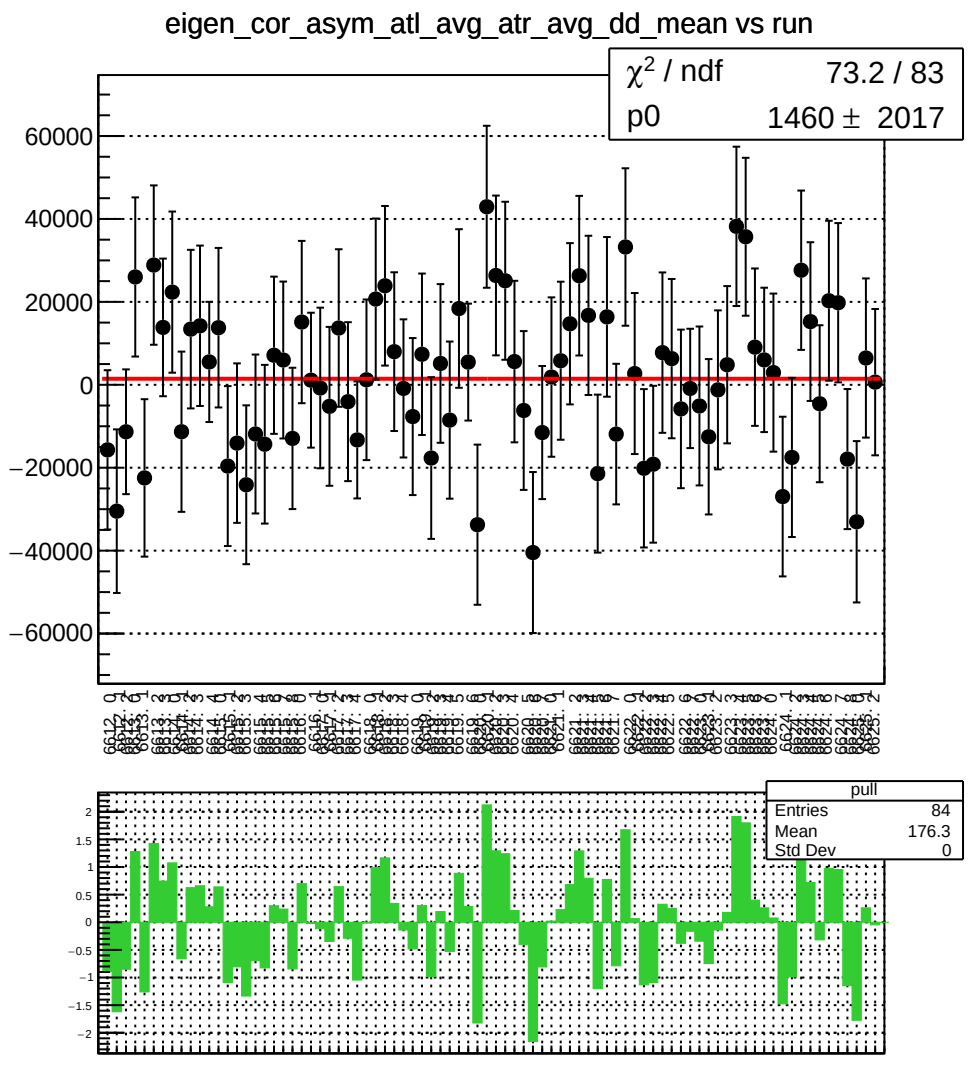

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 73.2 / 83
p0 1460 ± 2017
pull
Entries 84
Mean 176.3
Std Dev 0
pull1D
Entries 84
Mean 0.01059
Std Dev 0.9334

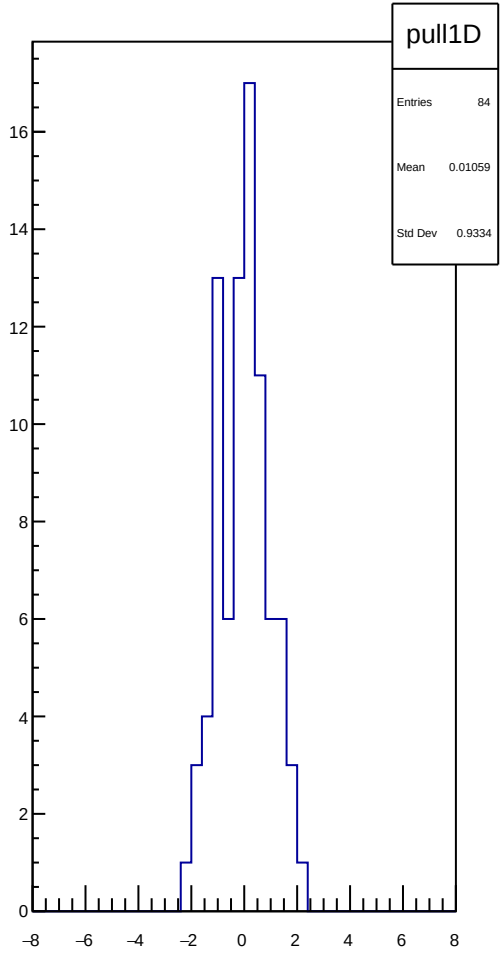

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ^2 / ndf 194.1 / 83
p0 1822 ± 1.426
1920
1900
1880
1860
1840
1820
1800
1780
1760

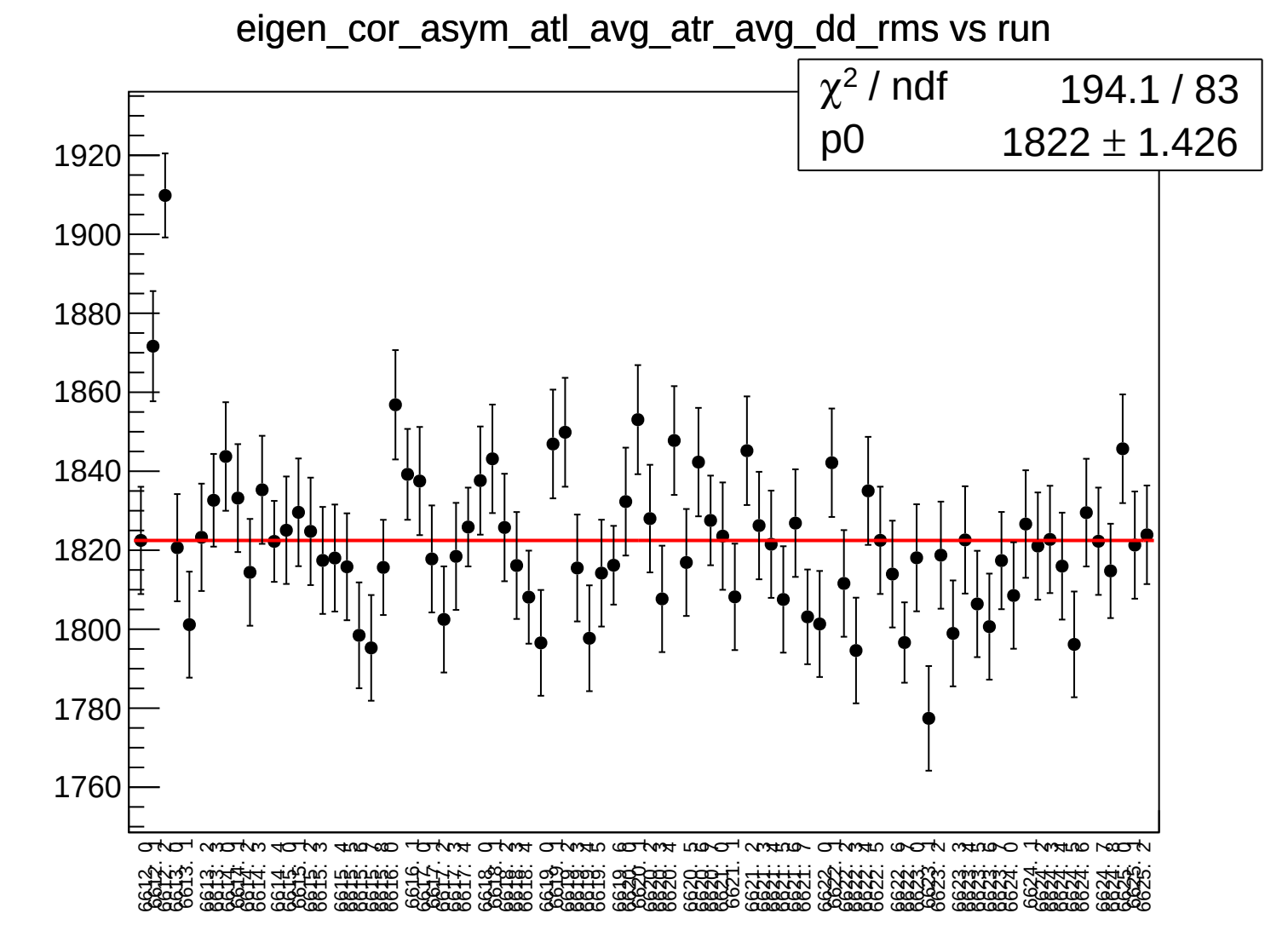

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 74.24 / 83
p0 −814.2 ± 2344
pull
Entries 84
Mean −61.27
Std Dev 0

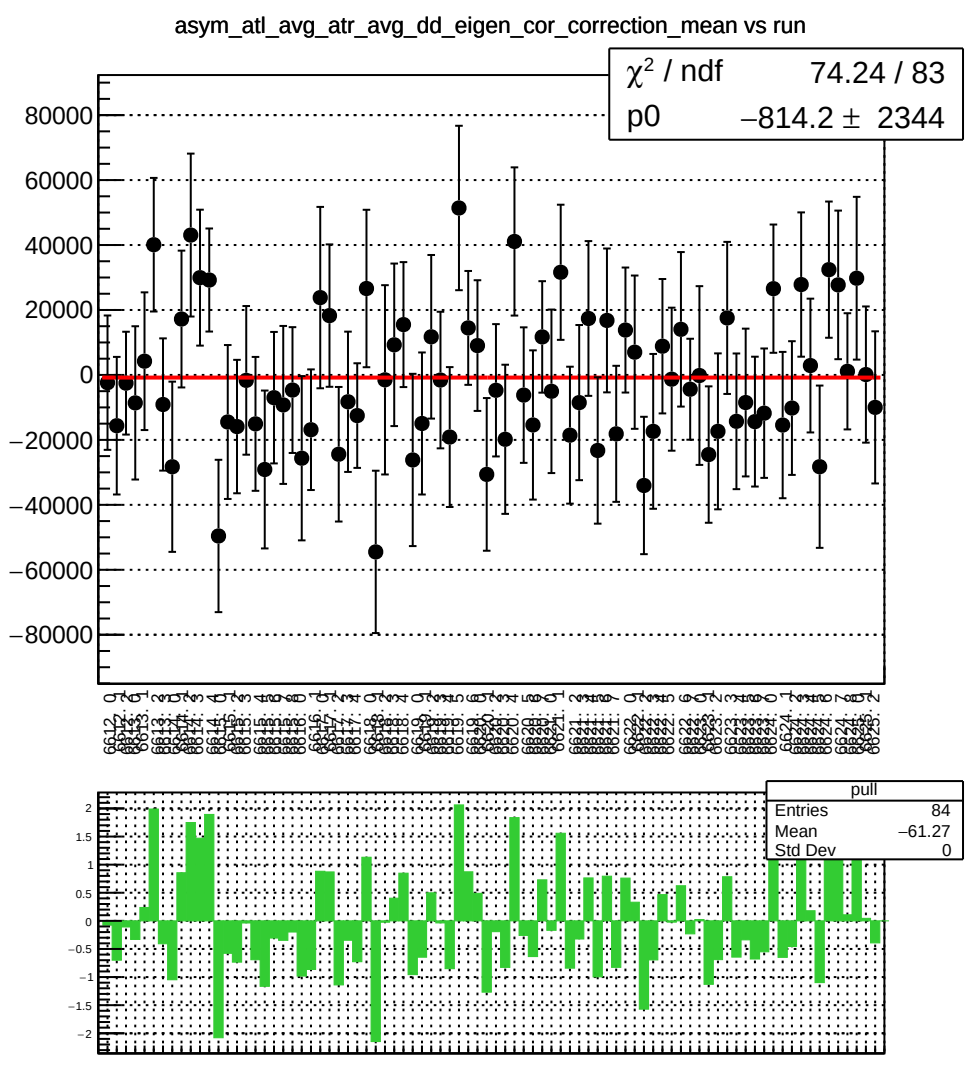

pull1D
Entries 84
Mean −0.01207
Std Dev 0.94

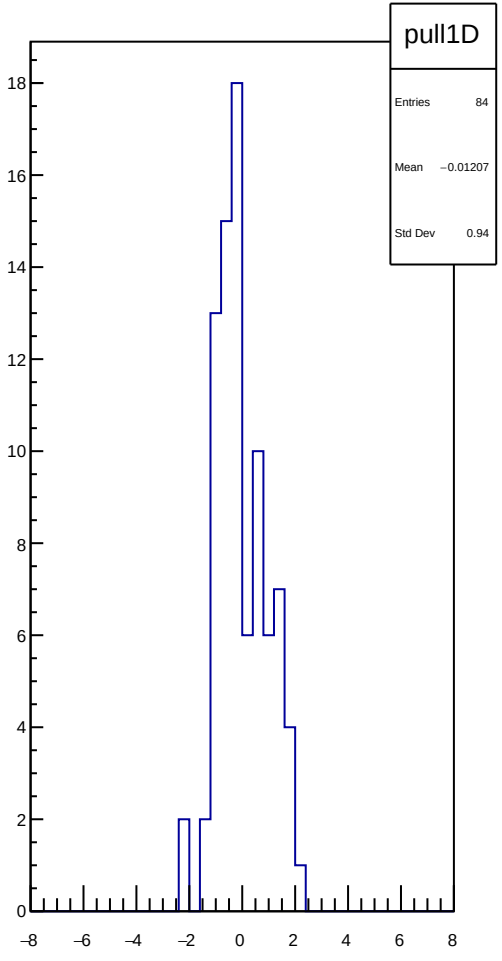

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.137e+04 / 83
p0 2111 ± 1.658
2800
2600
2400
2200
2000
1800

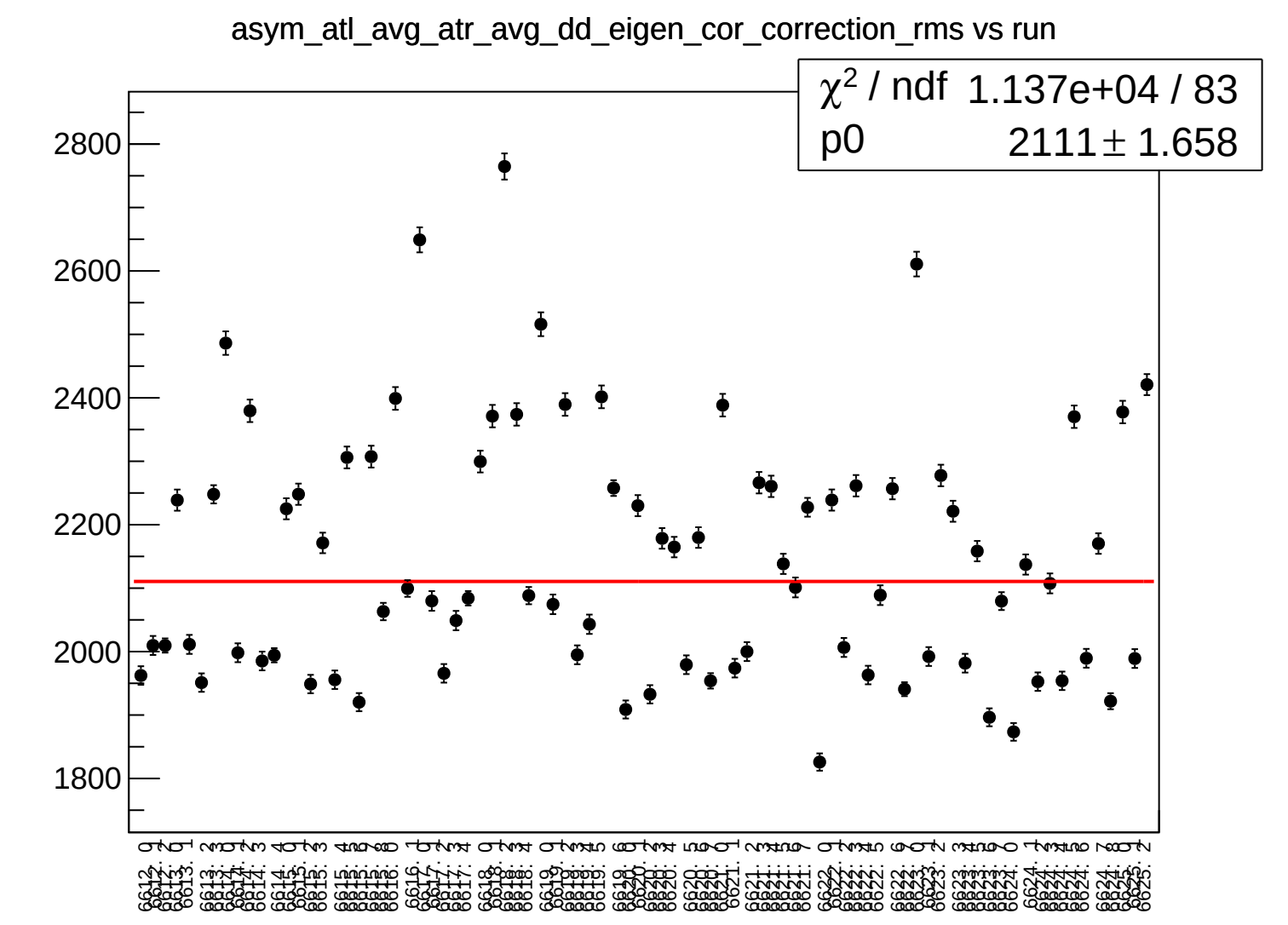

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 73.2 / 83
p0 1460 ± 2017
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 176.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

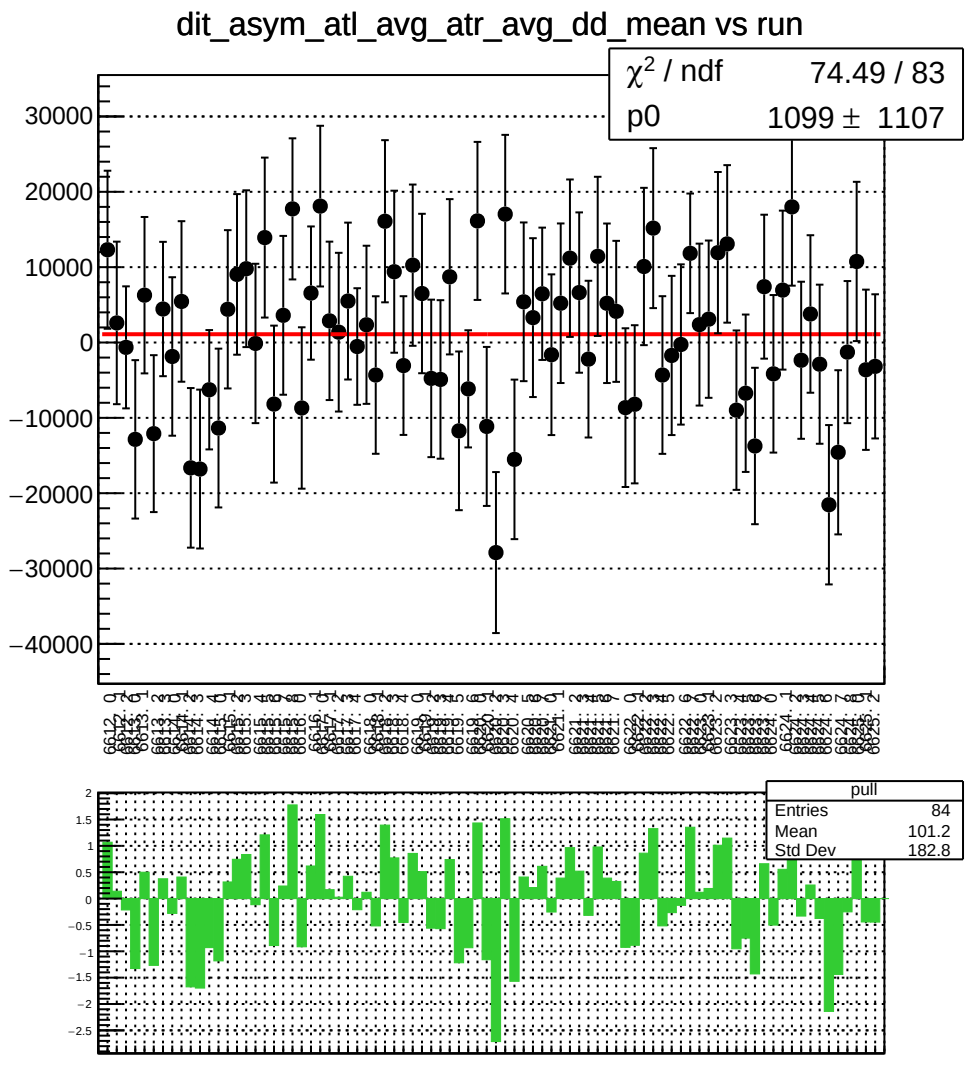

pull1D
Entries 84
Mean 0.01059
Std Dev 0.9334
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

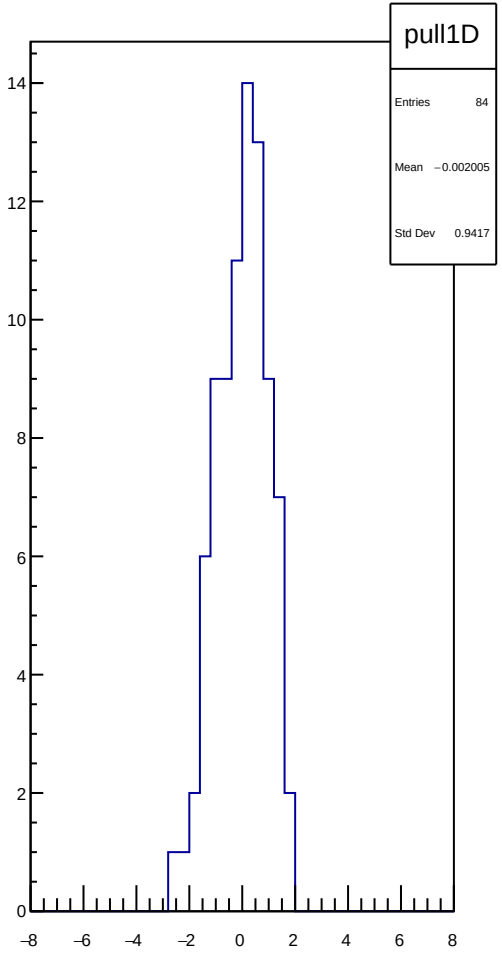

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 194.1 / 83
p0 1822 ± 1.426
1920
1900
1880
1860
1840
1820
1800
1780
1760

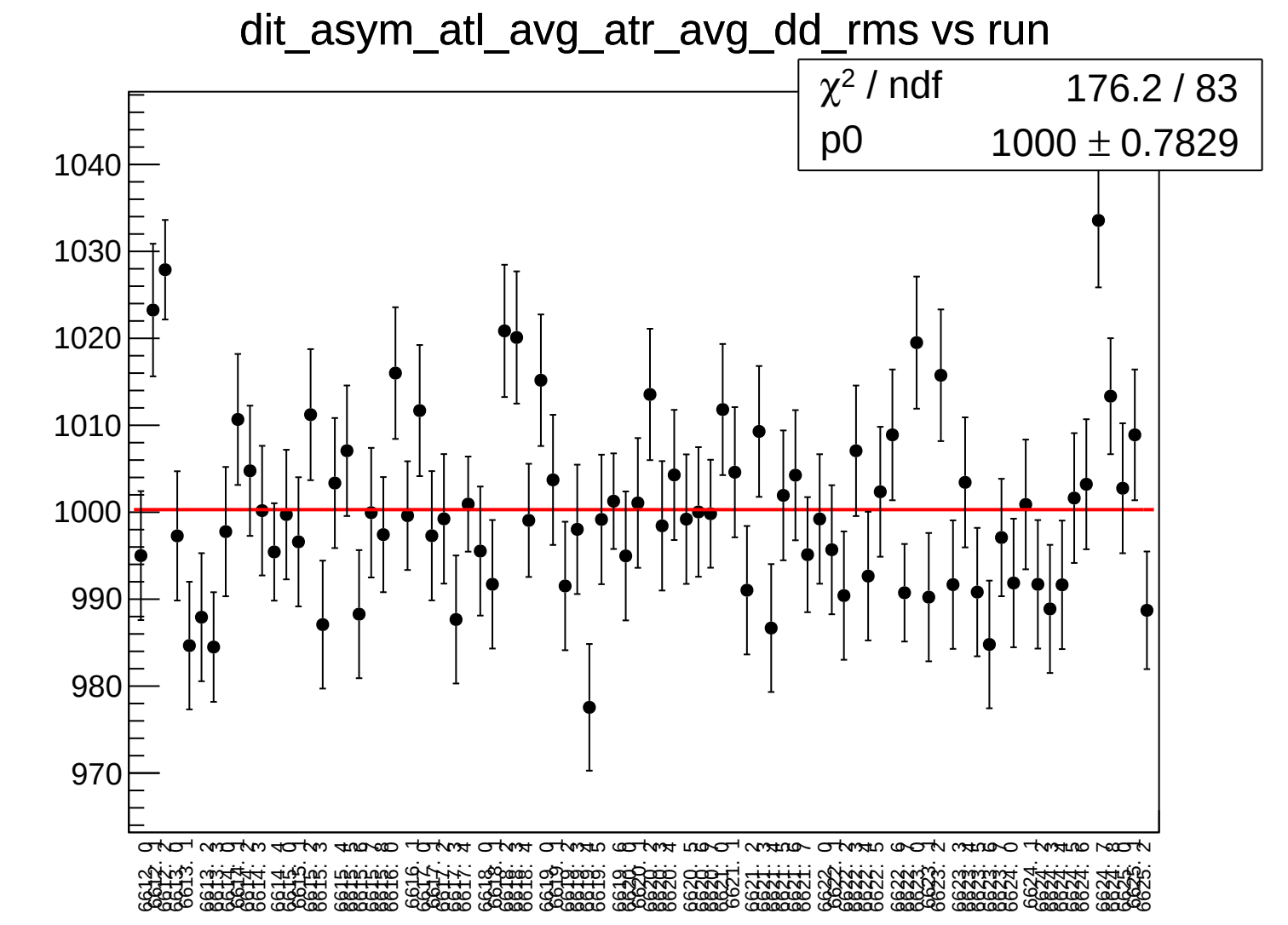

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.24 / 83
p0 −814.2 ± 2344
pull
Entries 84
Mean −61.27
Std Dev 0

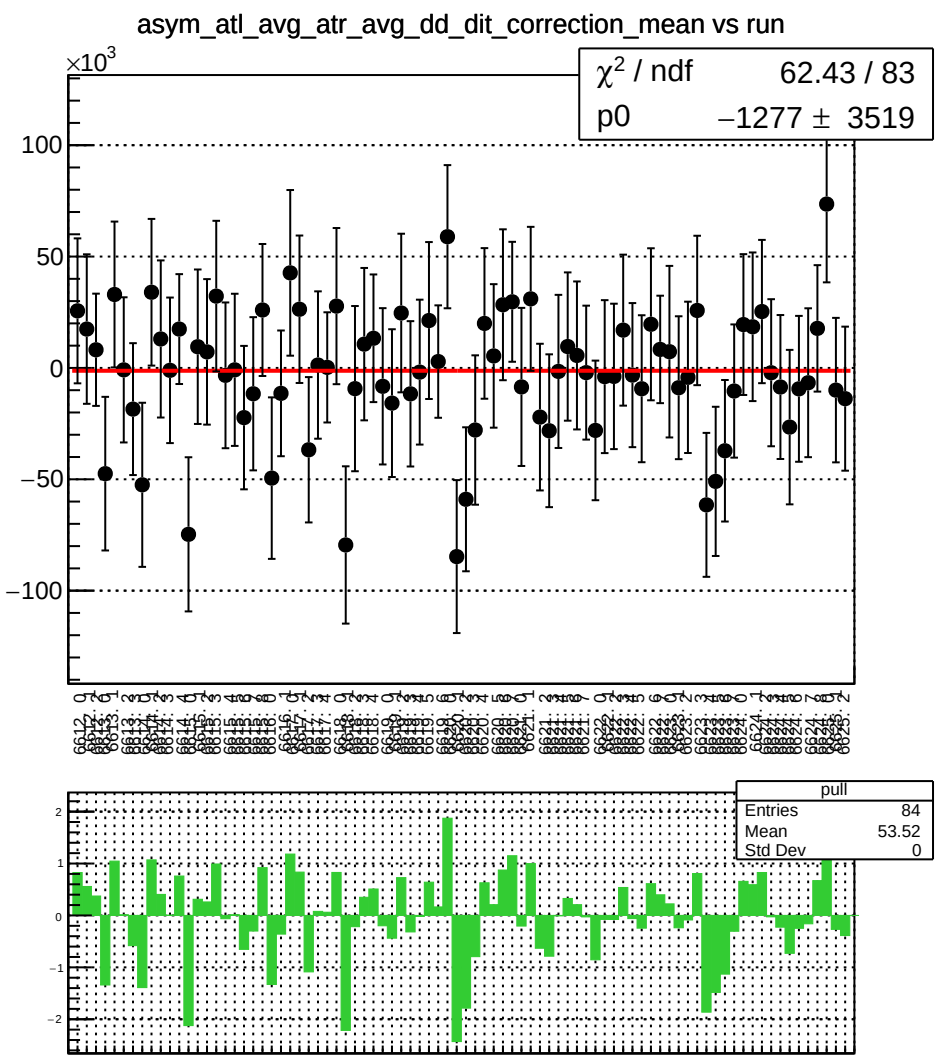

pull1D
Entries 84
Mean −0.01207
Std Dev 0.94

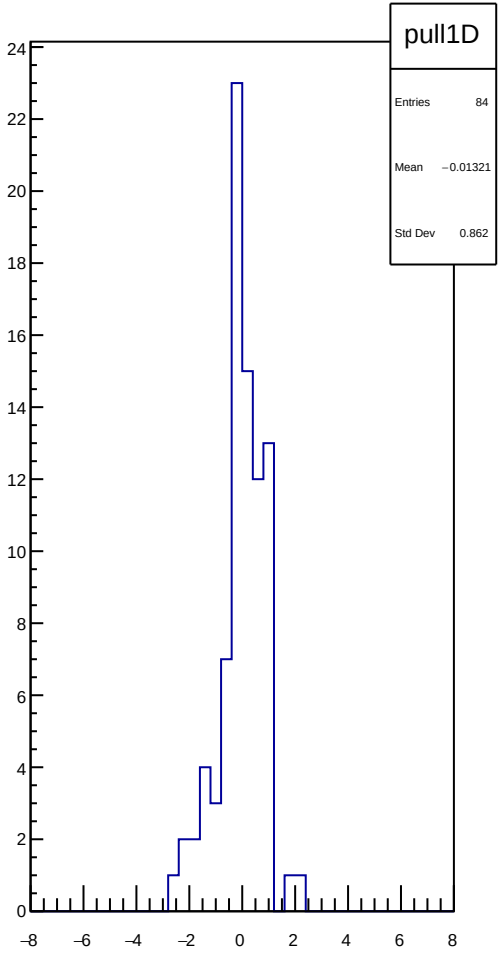

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.137e+04 / 83
p0 2111 ± 1.658
2800
2600
2400
2200
2000
1800

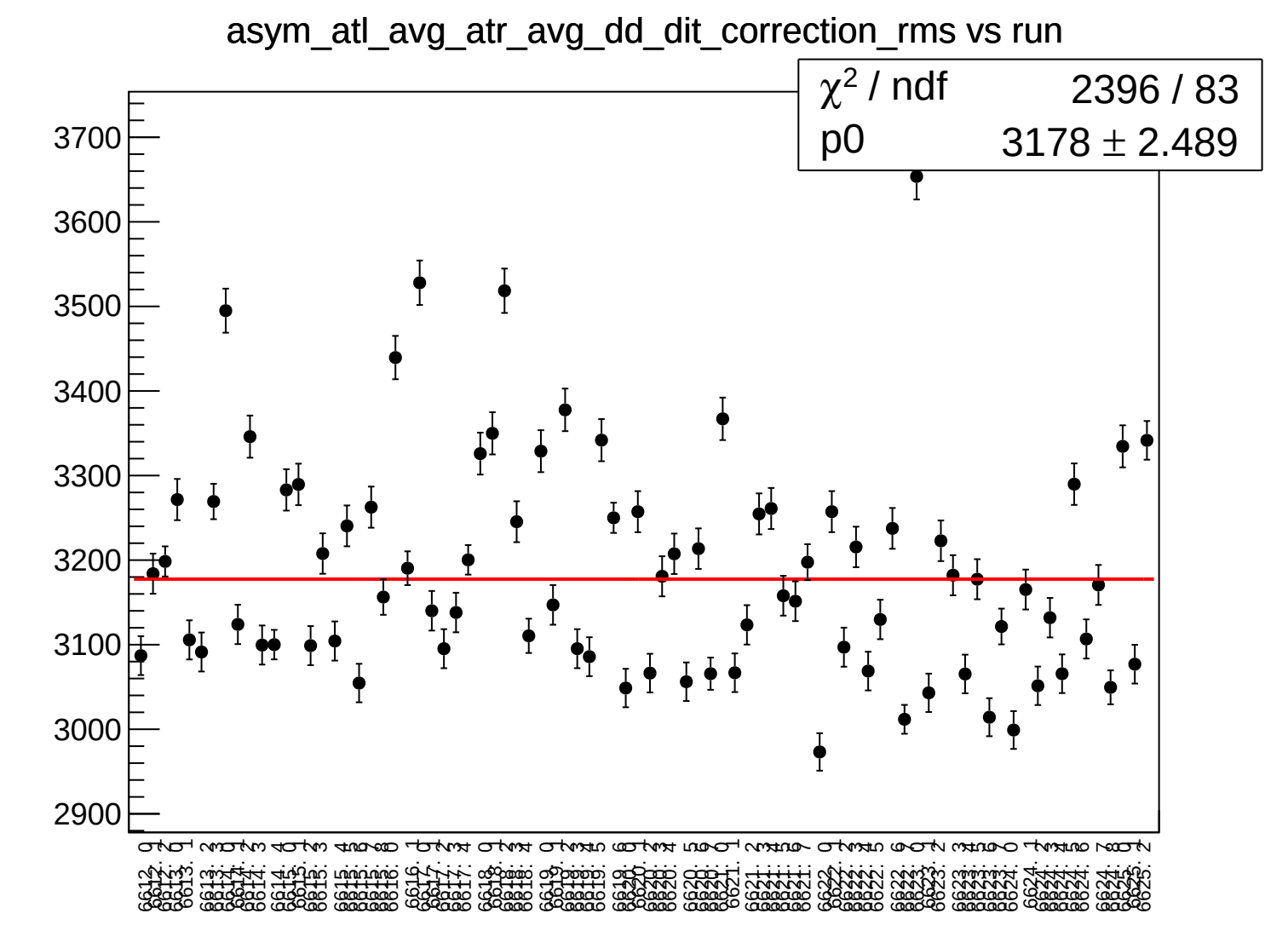

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 74.49 / 83
p0 1099 ± 1107
pull
Entries 84
Mean 101.2
Std Dev 182.8

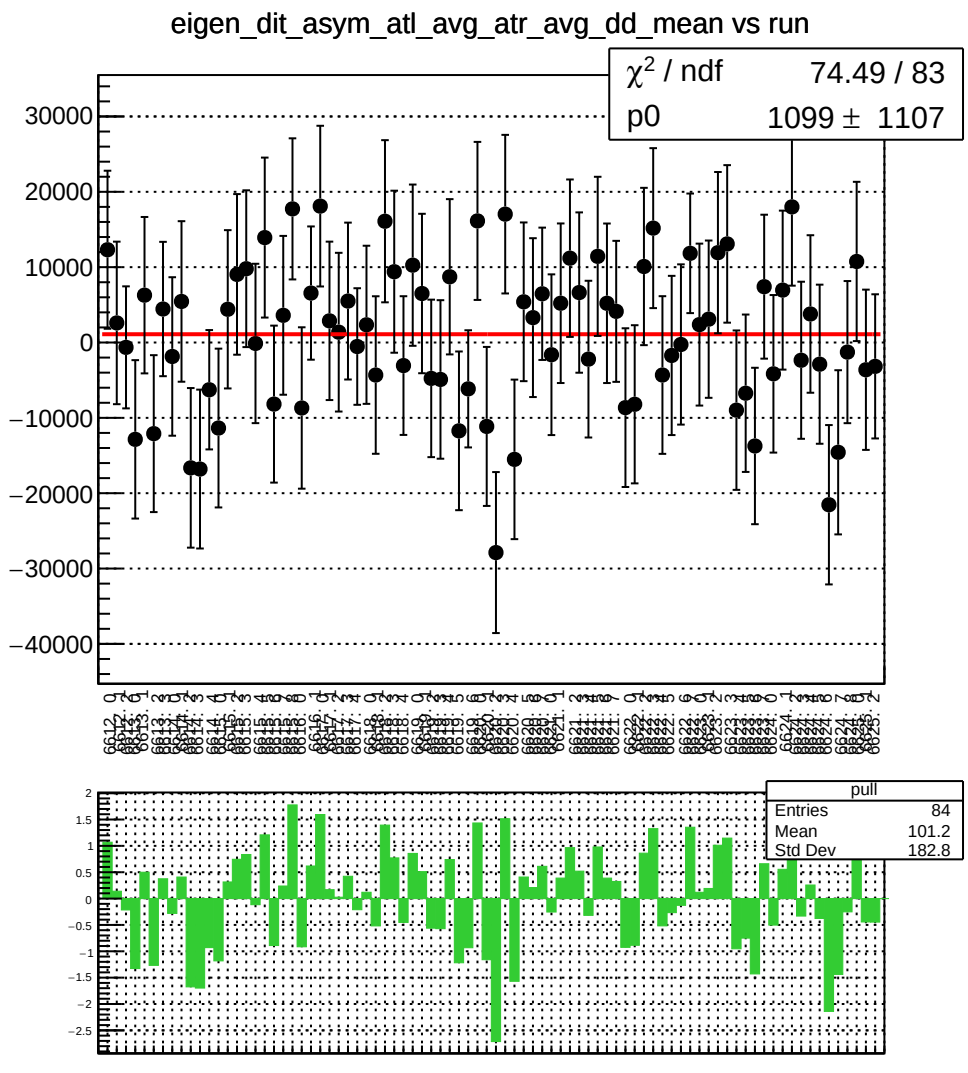

pull1D
Entries 84
Mean −0.002005
Std Dev 0.9417

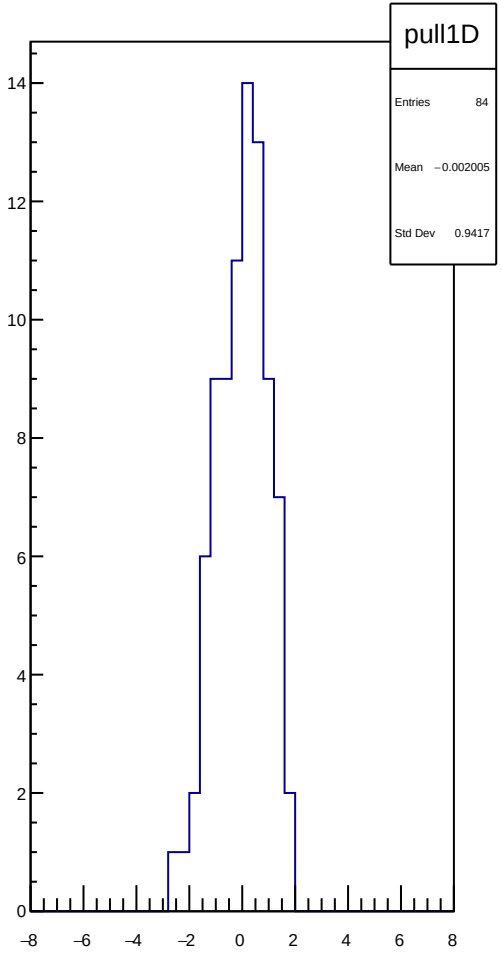

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 176.2 / 83
p0 1000 ± 0.7829
1040
1030
1020
1010
1000
990
980
970

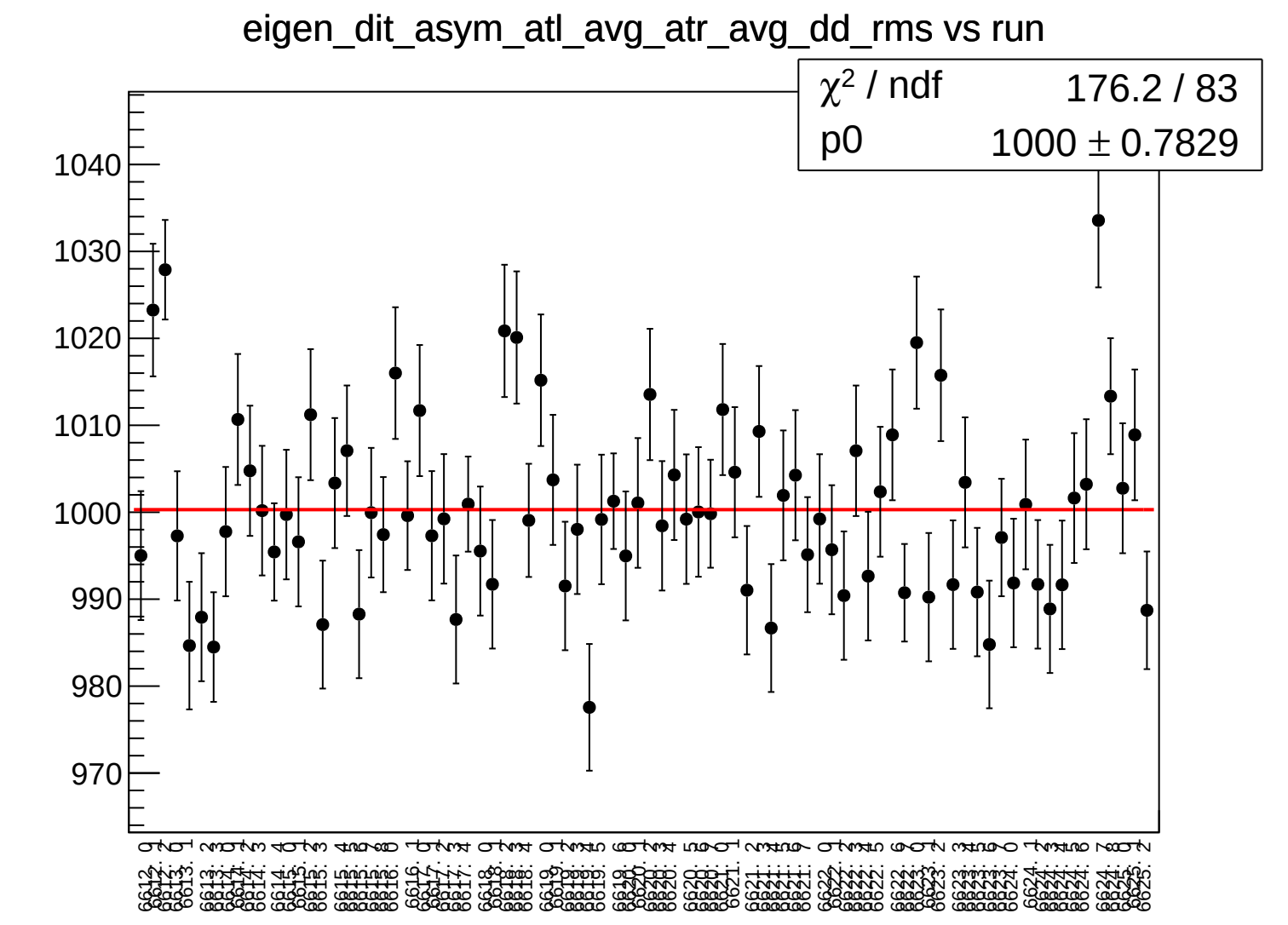

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 62.43 / 83
p0 −1277 ± 3519
100
50
0
−50
−100
pull
Entries 84
Mean 53.52
Std Dev 0
2
1
0
−1
−2

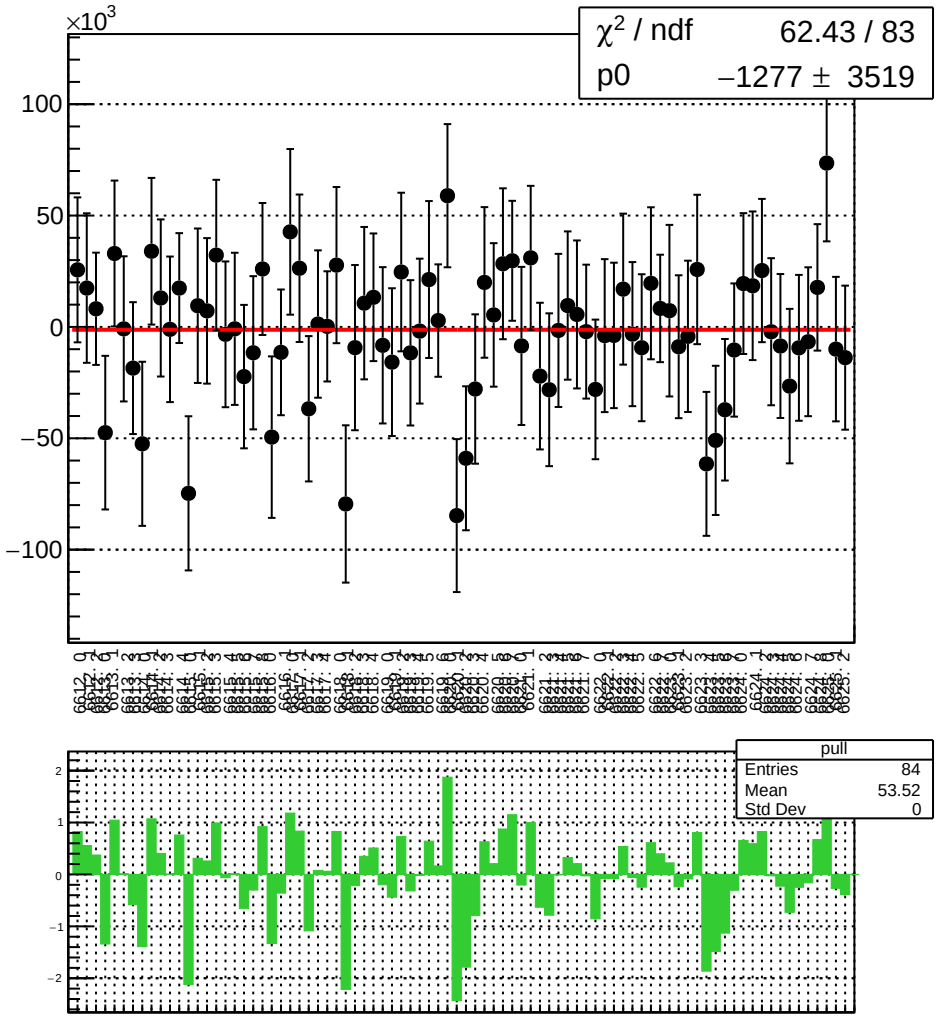

pull1D
Entries 84
Mean −0.01321
Std Dev 0.862
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

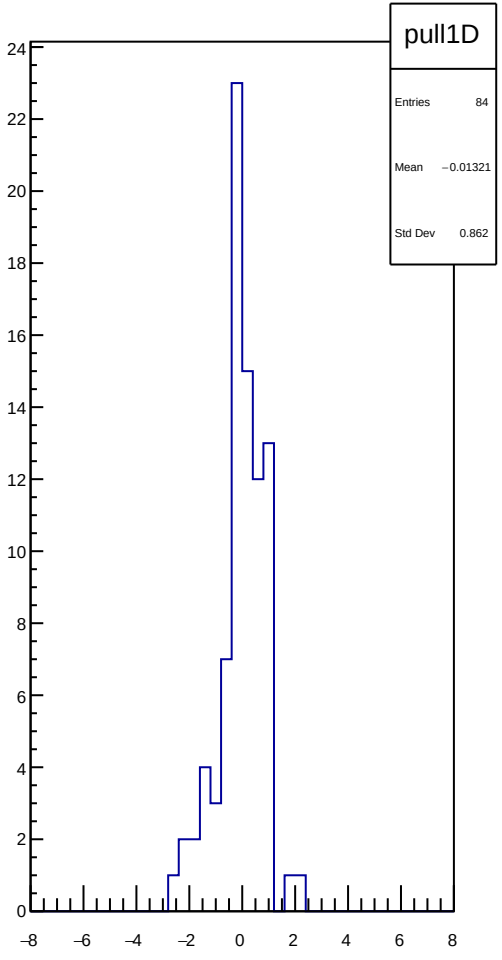

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 2396 / 83
p0 3178 ± 2.489
3700
3600
3500
3400
3300
3200
3100
3000
2900

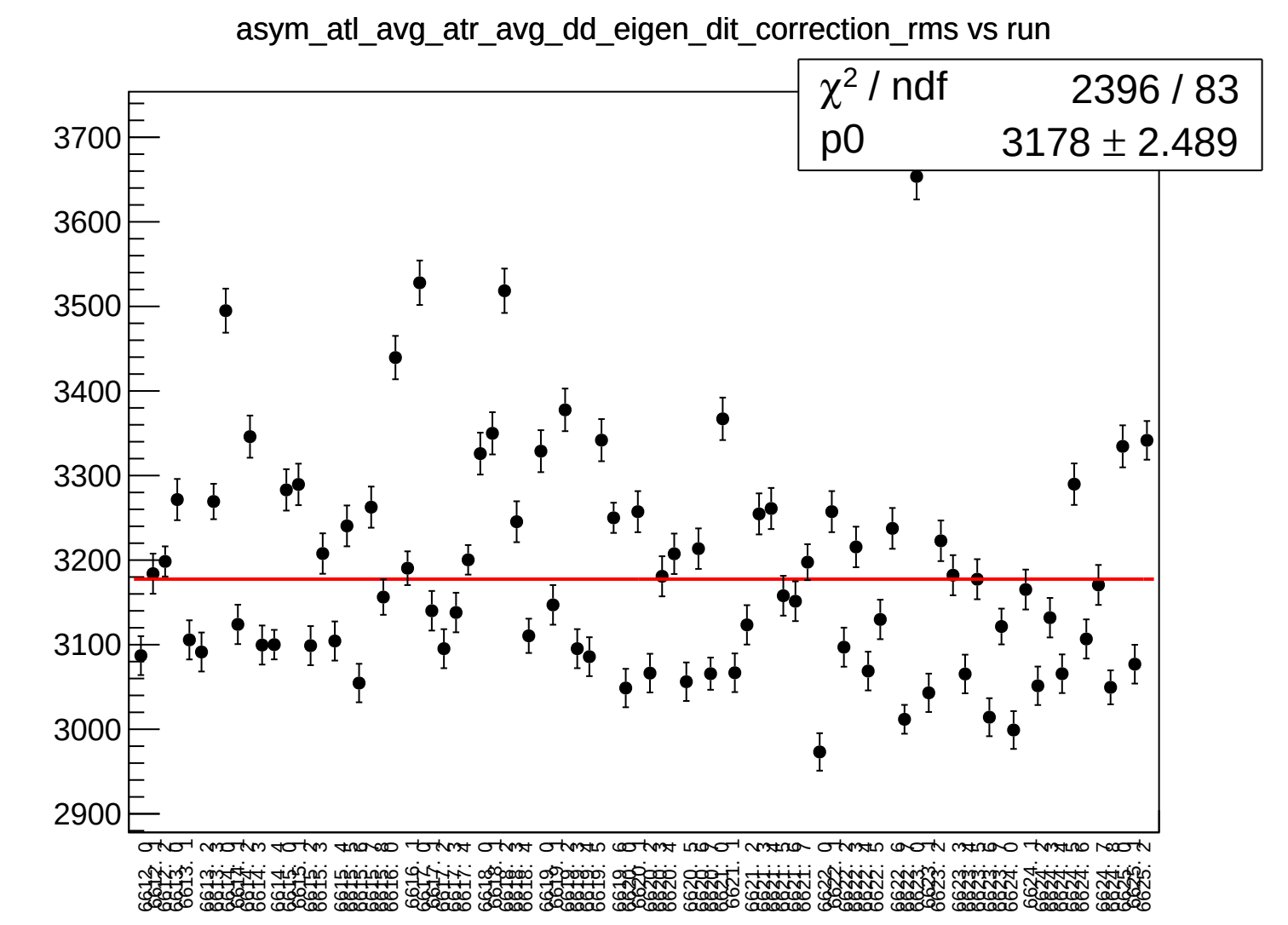

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 74.49 / 83
p0 1099 ± 1107
pull
Entries 84
Mean 101.2
Std Dev 182.8

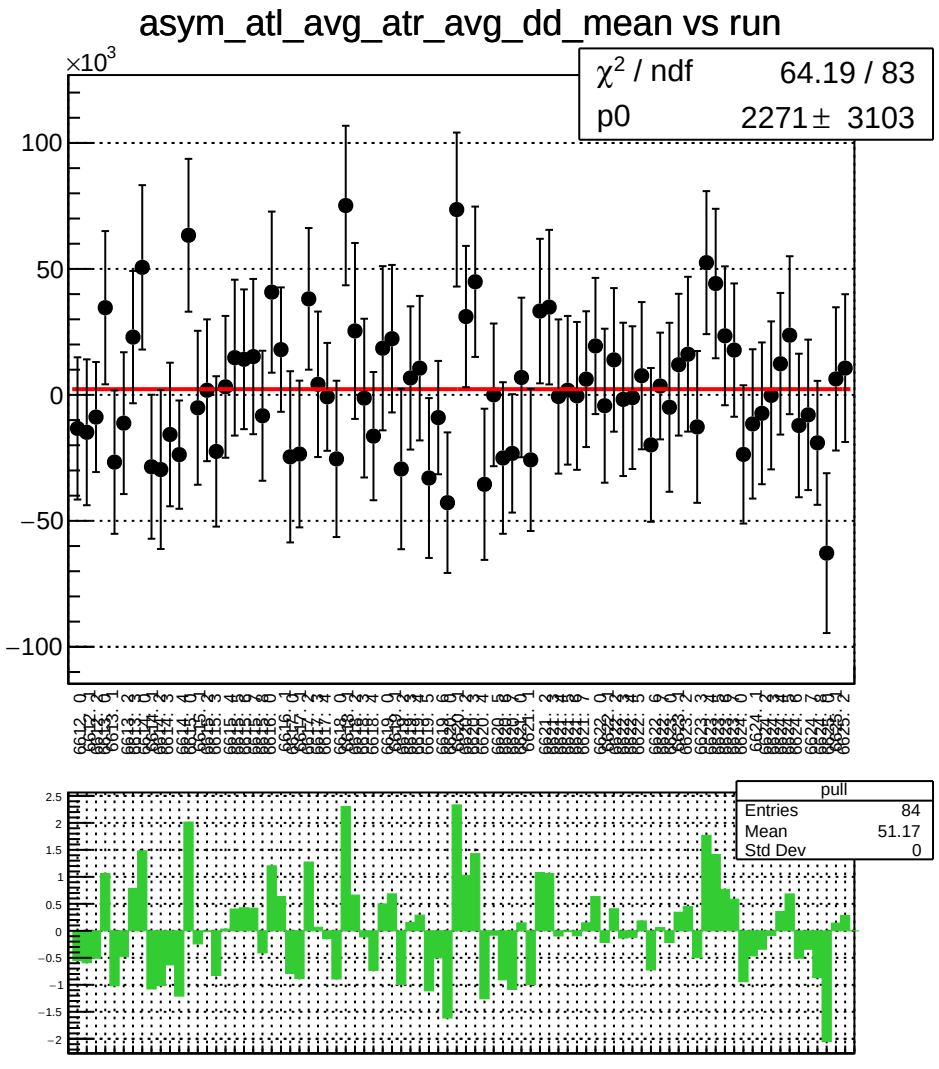

pull1D
Entries 84
Mean −0.002005
Std Dev 0.9417

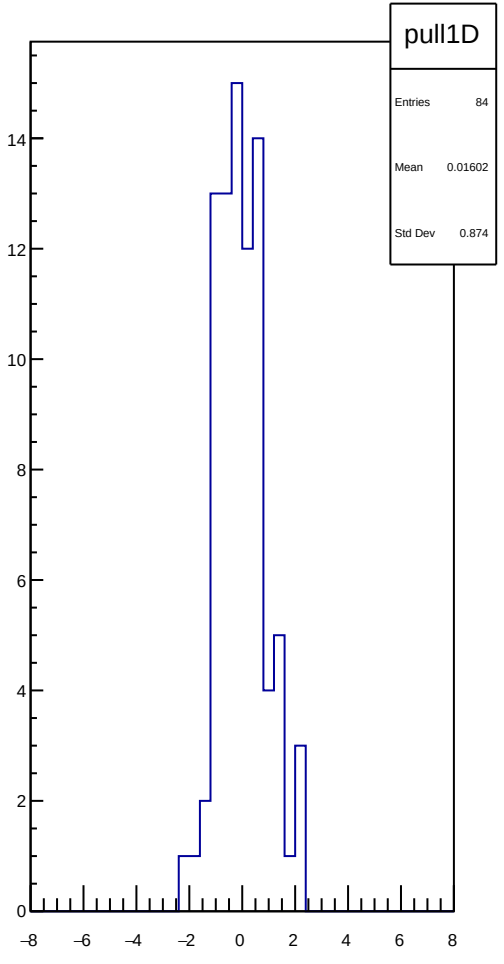

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 176.2 / 83
p0 1000 ± 0.7829
1040
1030
1020
1010
1000
990
980
970

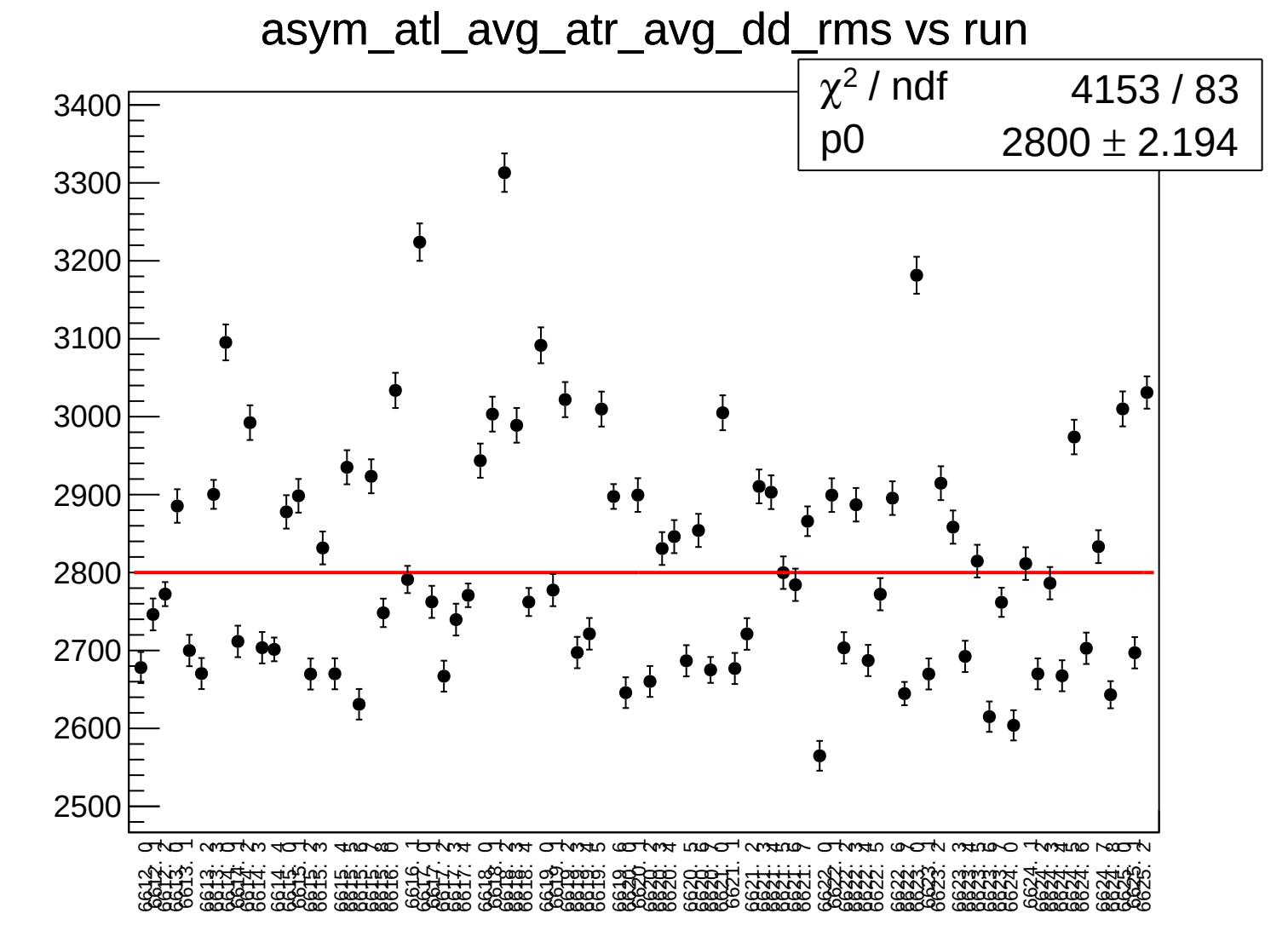

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 62.43 / 83
p0 −1277 ± 3519
100
50
0
−50
−100
pull
Entries 84
Mean 53.52
Std Dev 0
2
1
0
−1
−2

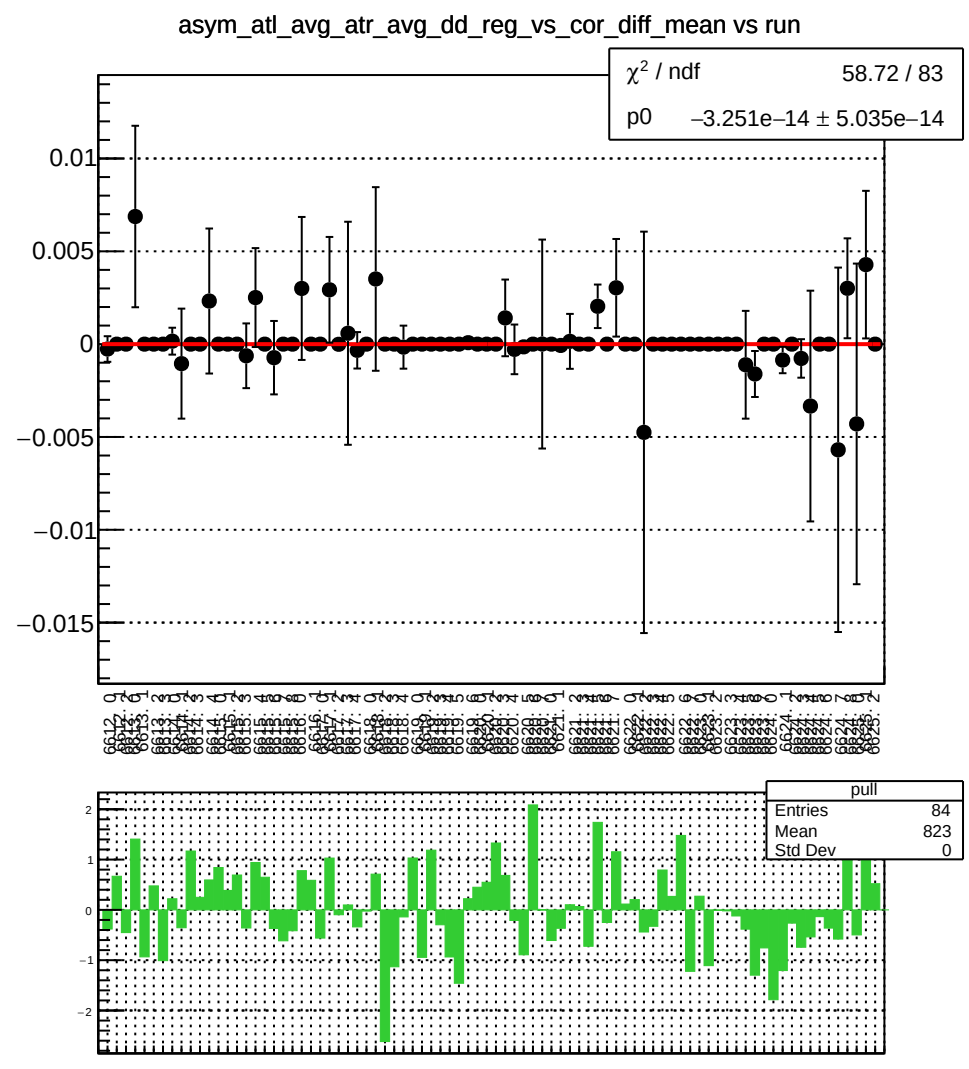

pull1D
Entries 84
Mean −0.01321
Std Dev 0.862
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

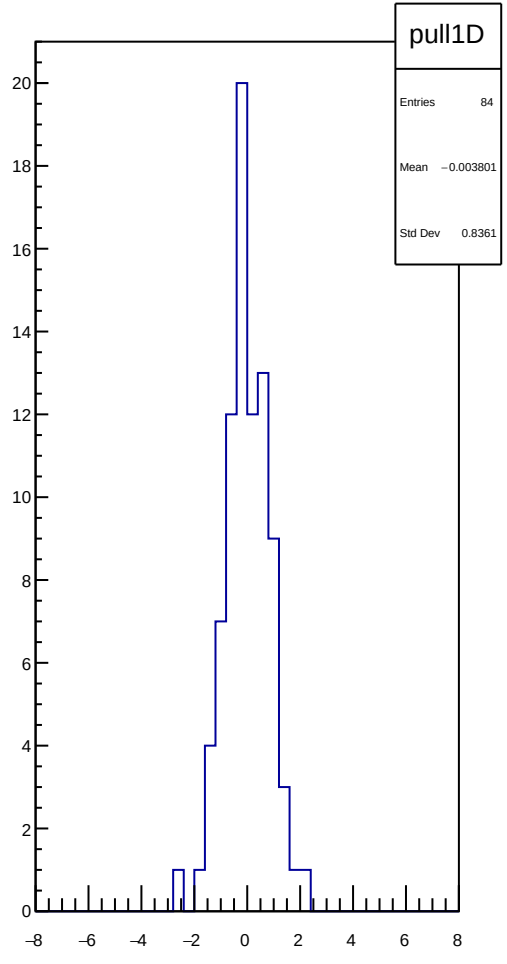

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2396 / 83
p0 3178 ± 2.489
3700
3600
3500
3400
3300
3200
3100
3000
2900

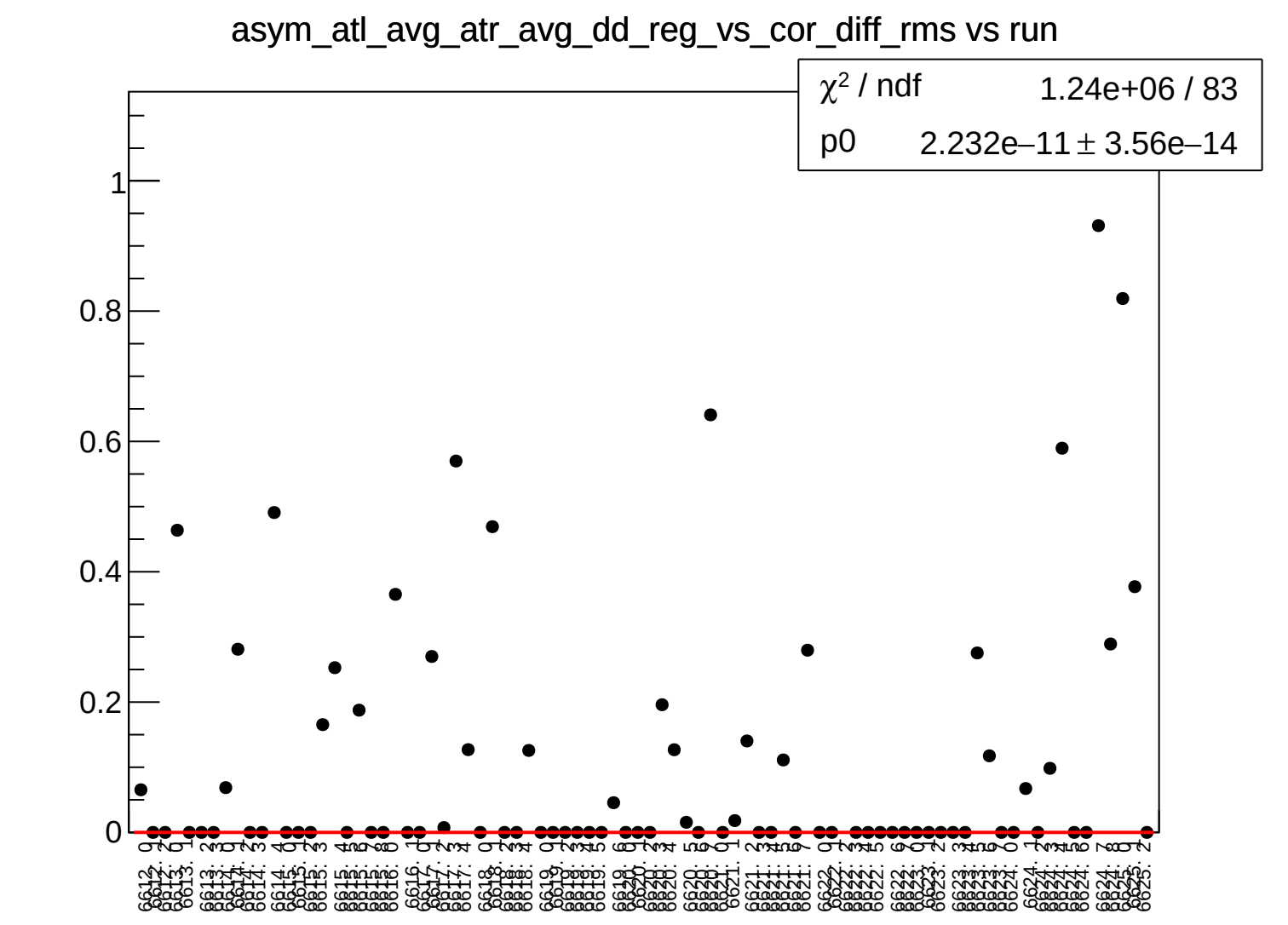

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 64.19 / 83
p0 2271 ± 3103
100
50
0
−50
−100
pull
Entries 84
Mean 51.17
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

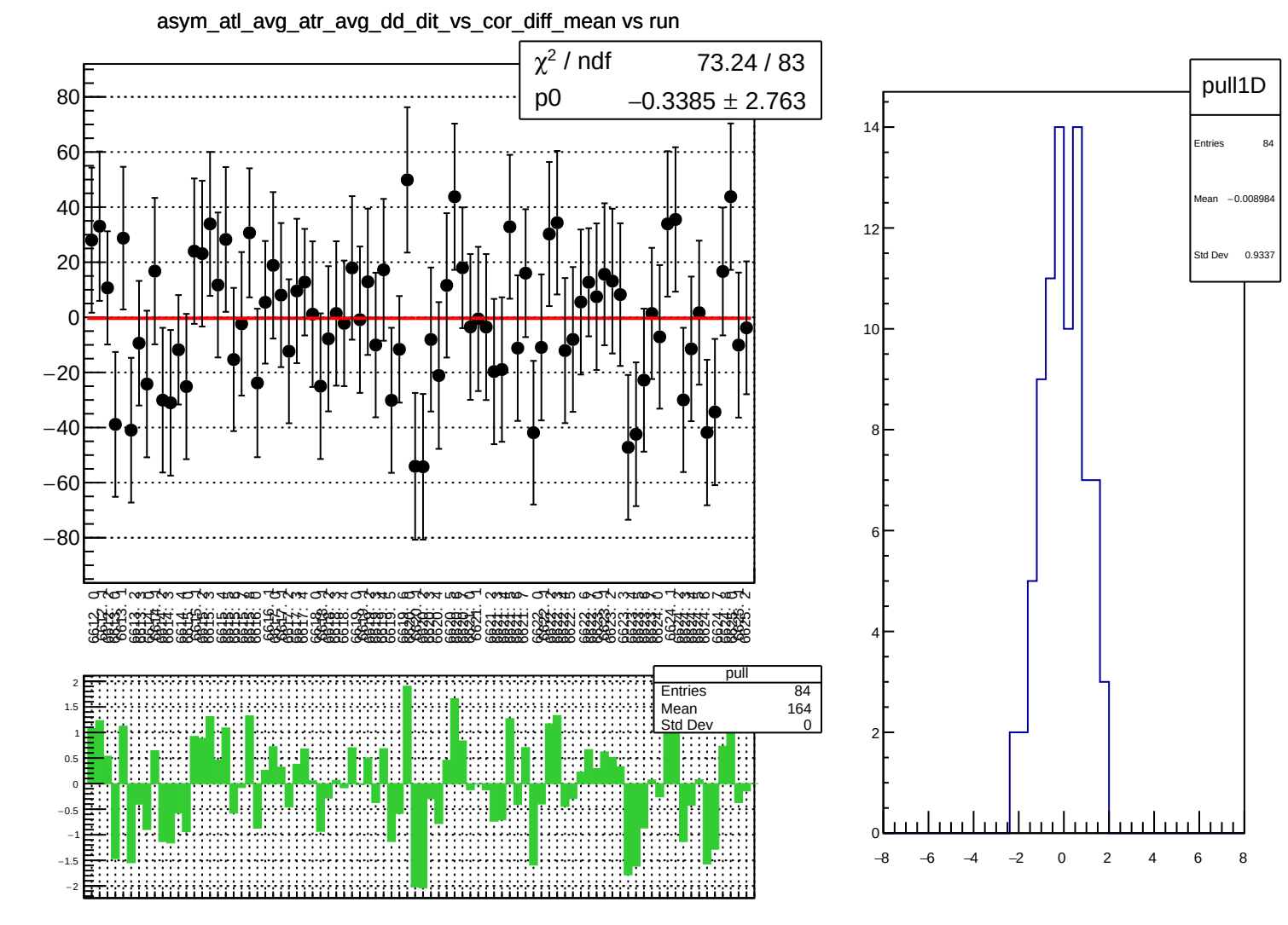

pull1D
Entries 84
Mean 0.01602
Std Dev 0.874
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

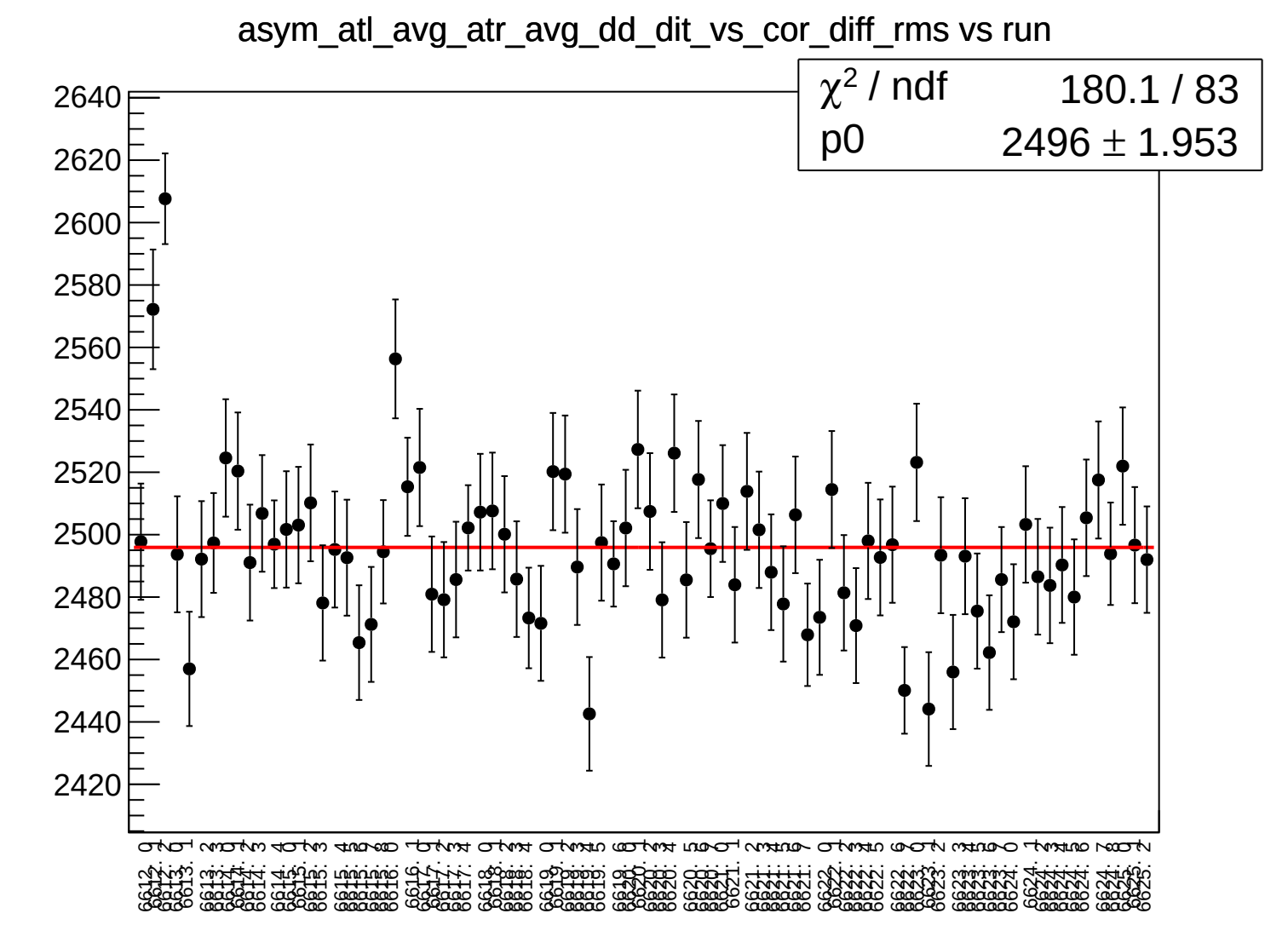

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 4153 / 83
p0 2800 ± 2.194
3400
3300
3200
3100
3000
2900
2800
2700
2600
2500

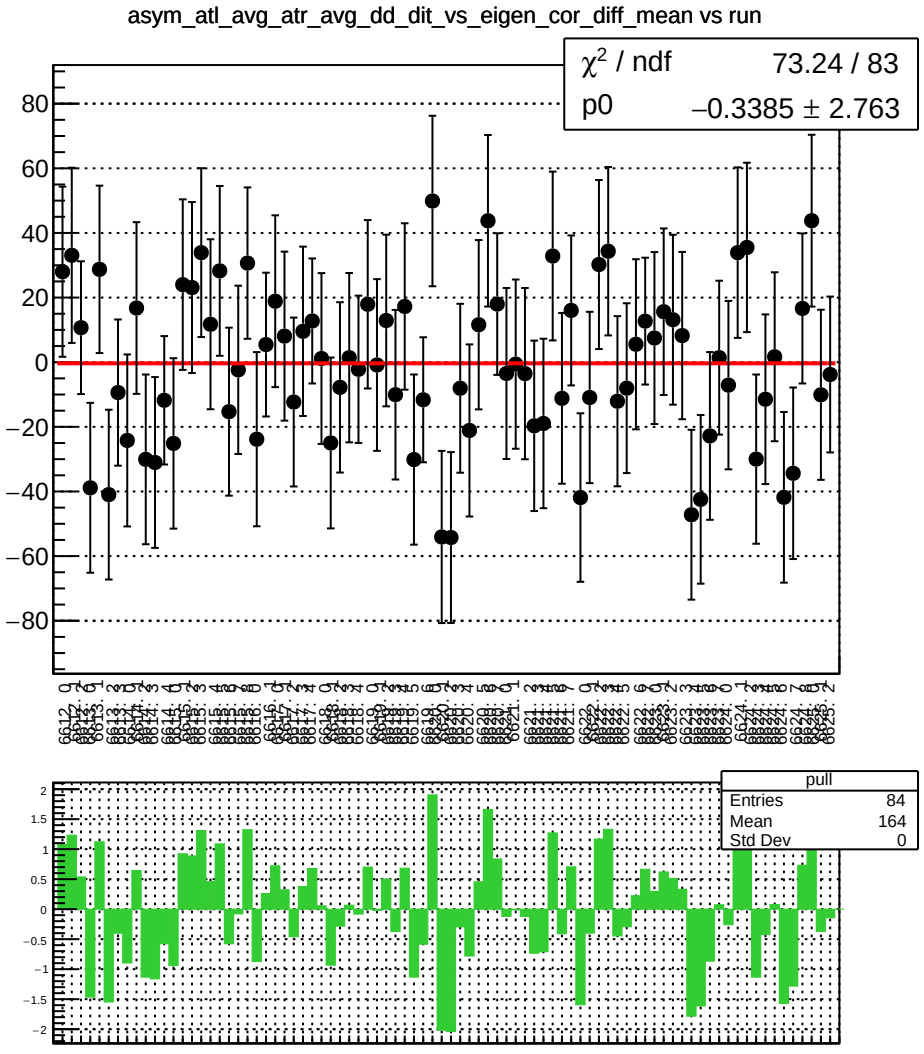

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 58.72 / 83
p0 −3.251e−14 ± 5.035e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 84
Mean 823
Std Dev 0
2
1
0
−1
−2

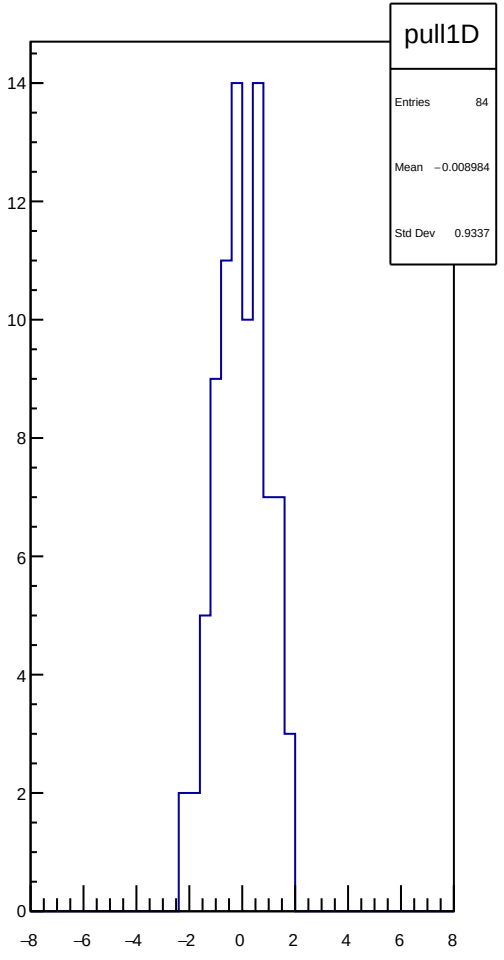

pull1D
Entries 84
Mean −0.003801
Std Dev 0.8361
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

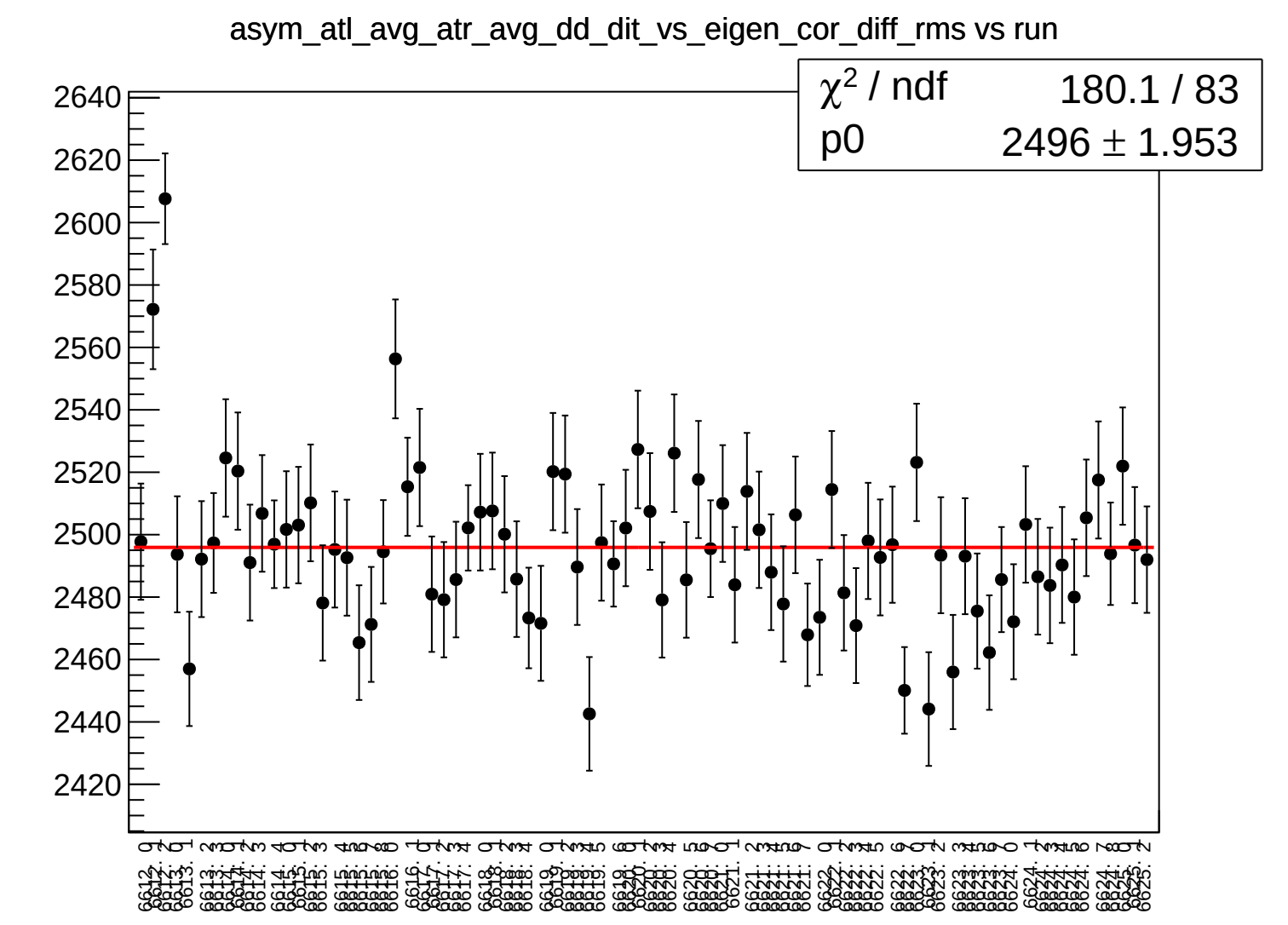

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.24e+06 / 83
p0 2.232e−11 ± 3.56e−14
1
0.8
0.6
0.4
0.2
0

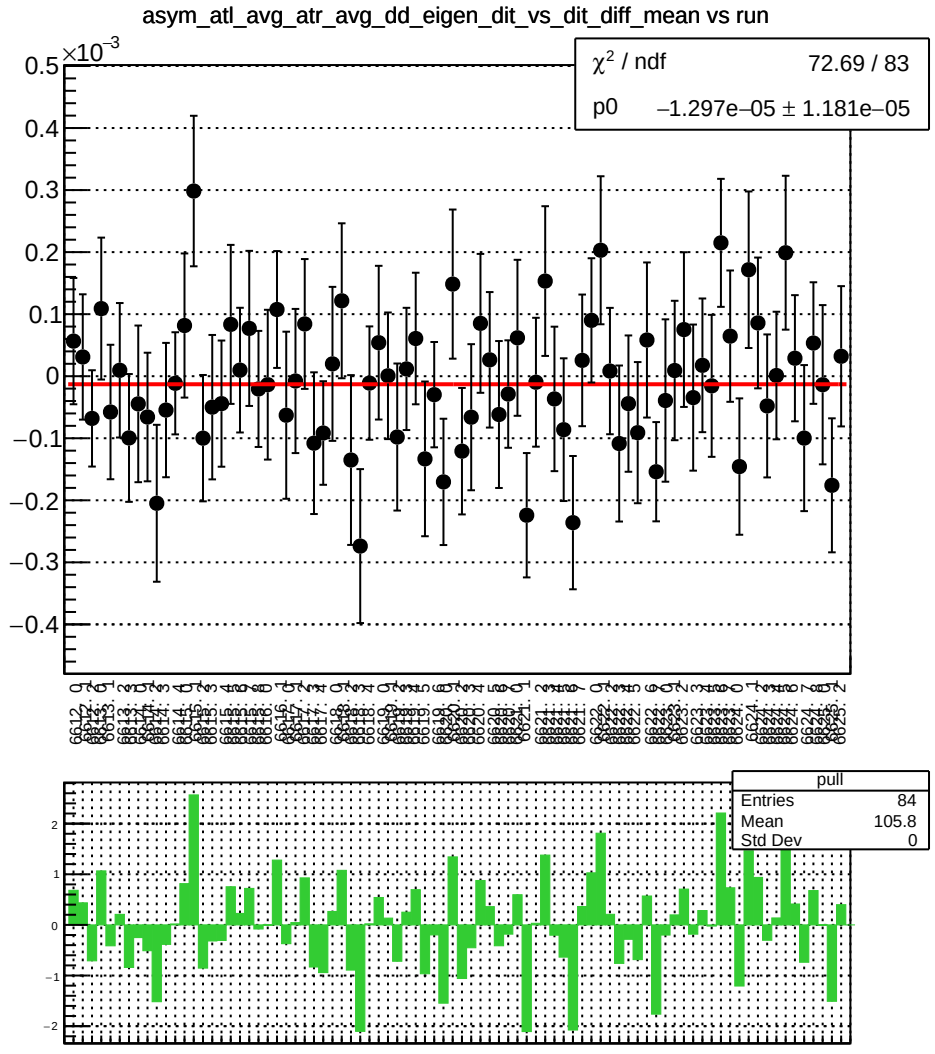

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.24 / 83
p0 −0.3385 ± 2.763
pull
Entries 84
Mean 164
Std Dev 0
pull1D
Entries 84
Mean −0.008984
Std Dev 0.9337

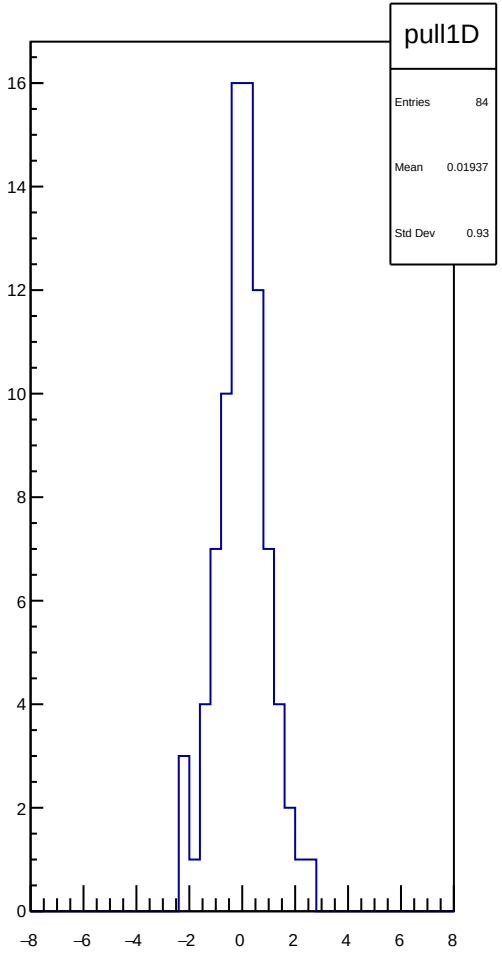

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 180.1 / 83
p0 2496 ± 1.953
2640
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

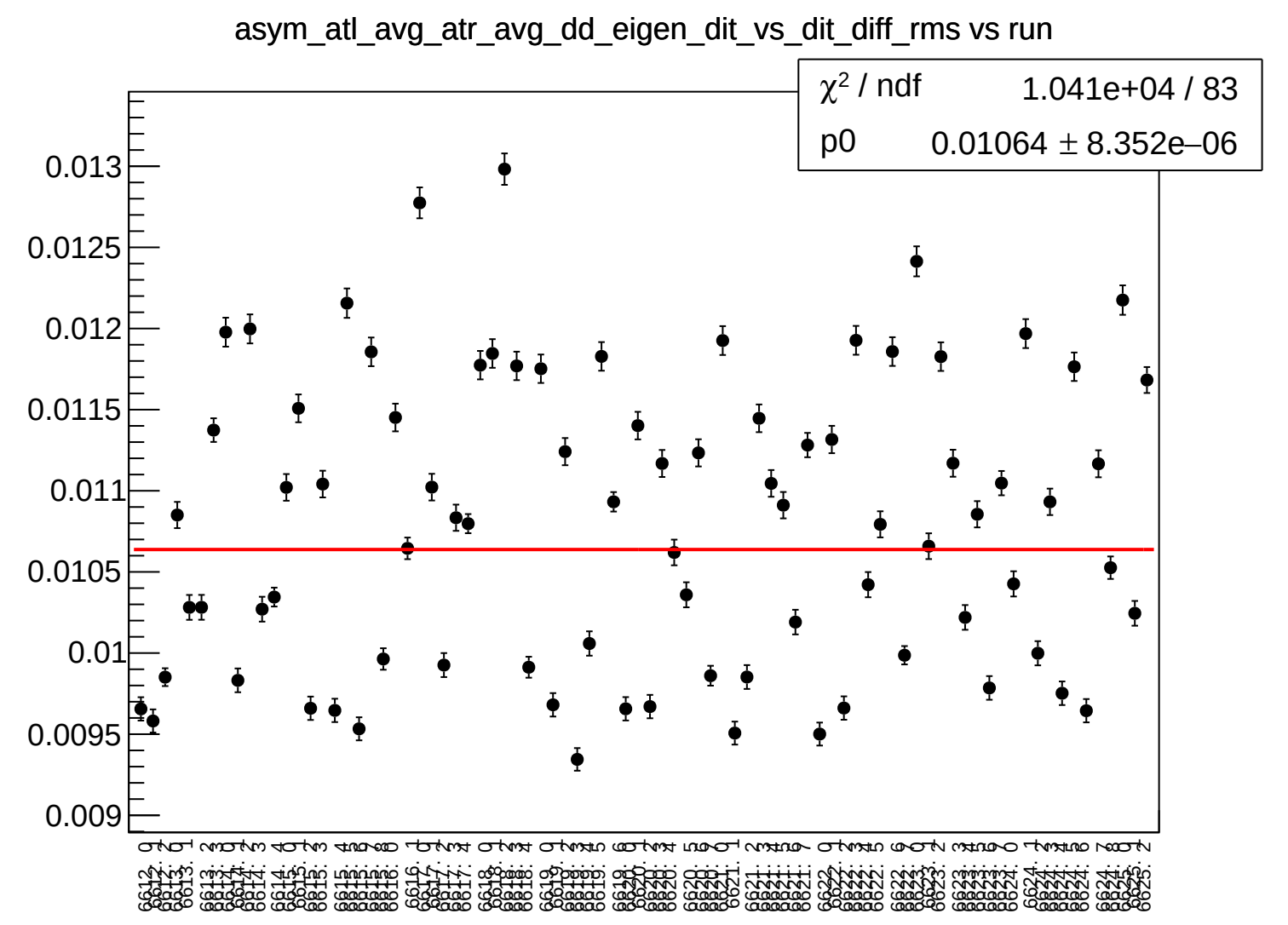

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.24 / 83
p0 −0.3385 ± 2.763
pull
Entries 84
Mean 164
Std Dev 0

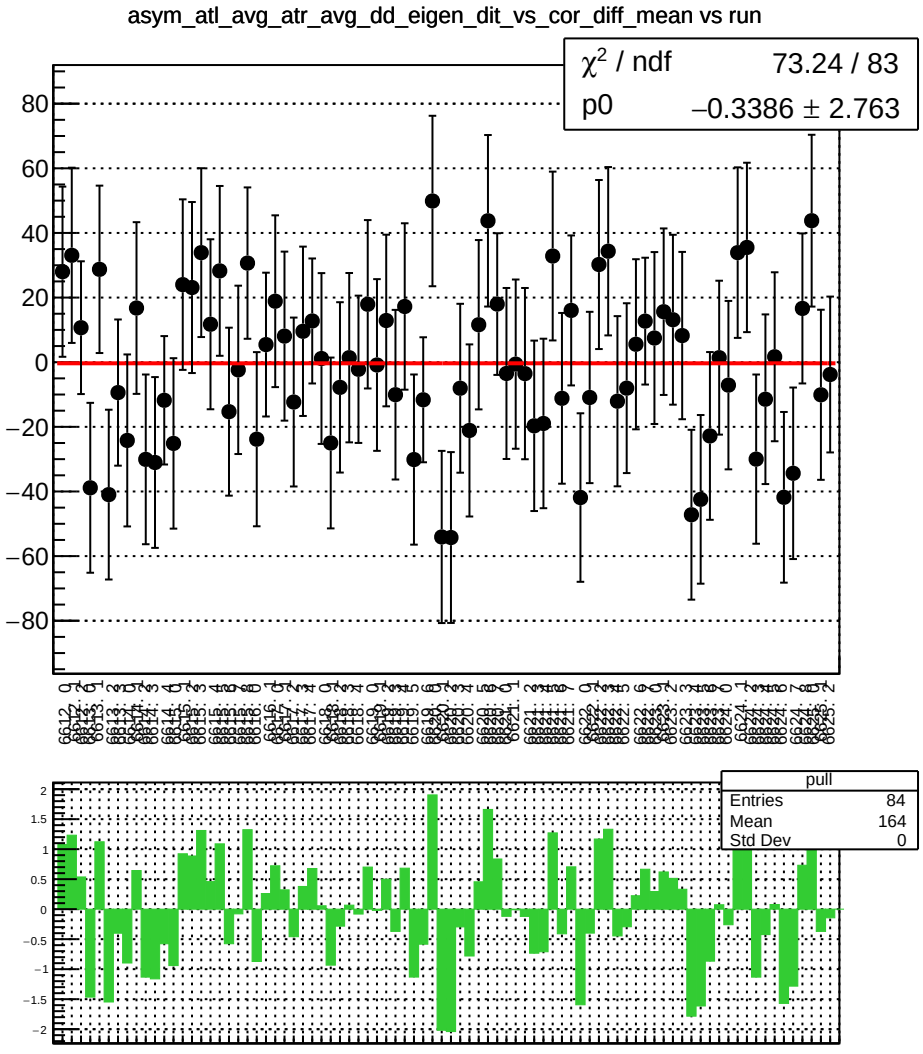

pull1D
Entries 84
Mean −0.008984
Std Dev 0.9337

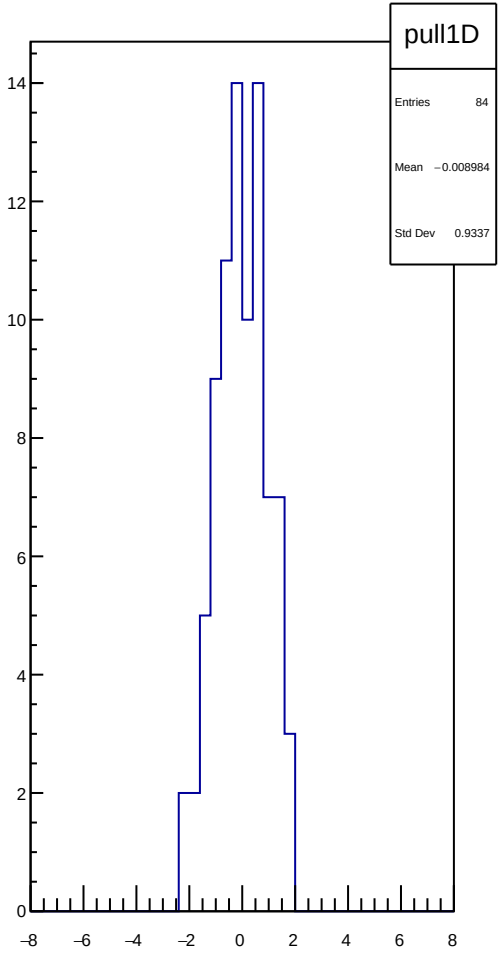

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 180.1 / 83
p0 2496 ± 1.953
2640
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

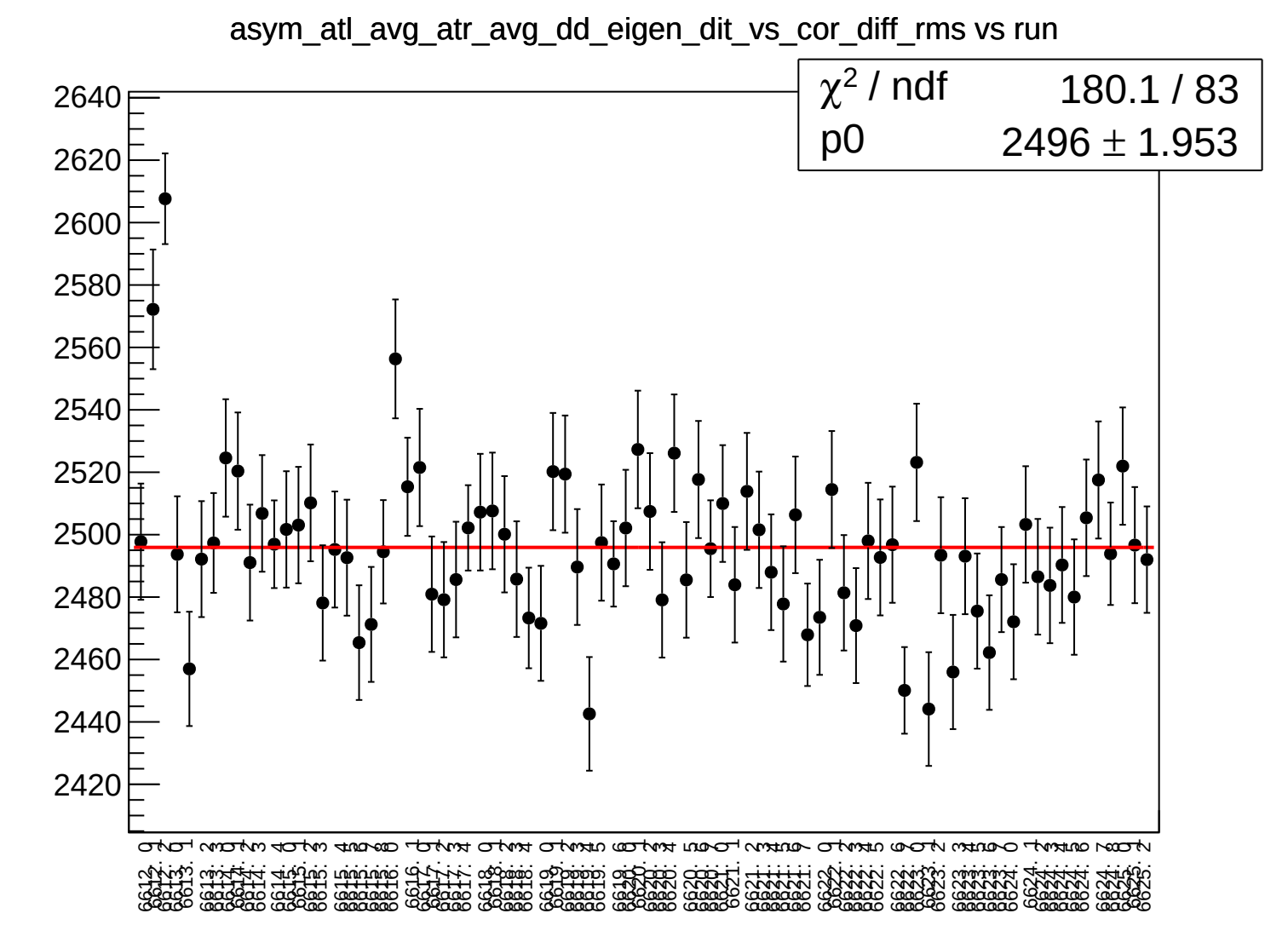

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 72.69 / 83
p0 −1.297e−05 ± 1.181e−05
pull
Entries 84
Mean 105.8
Std Dev 0

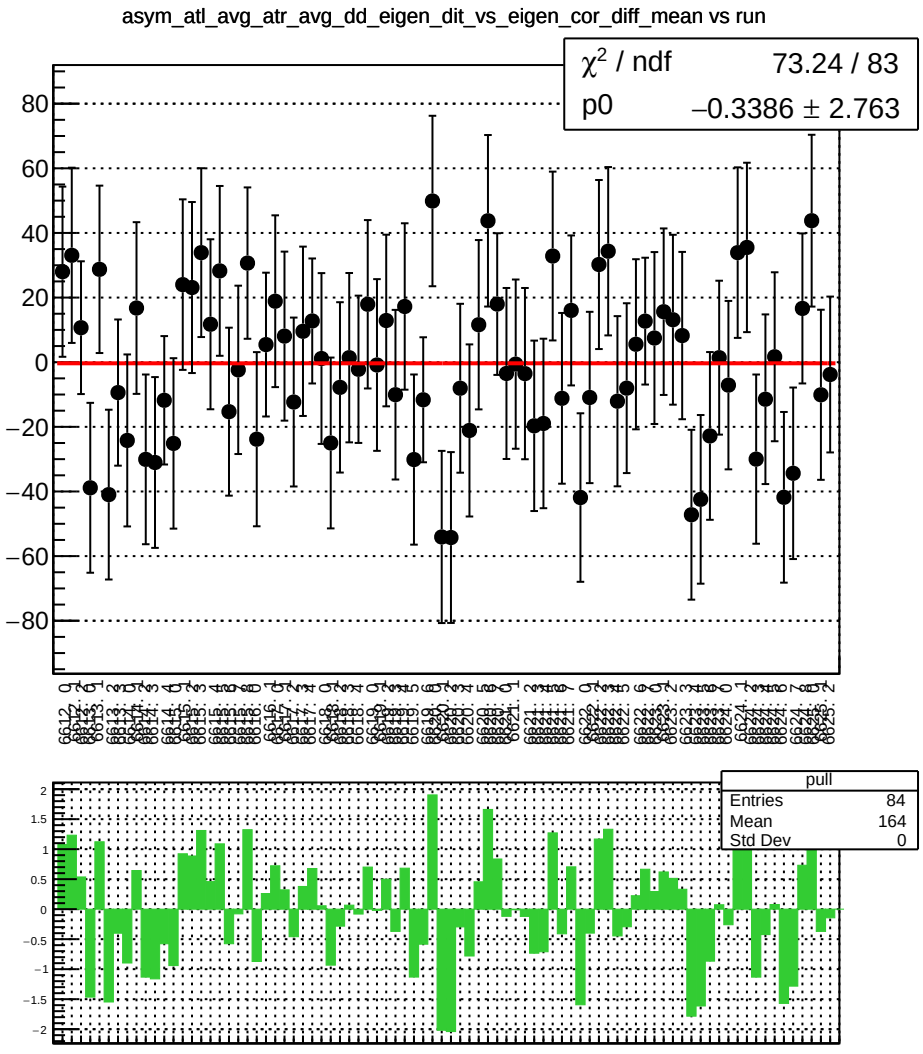

pull1D
Entries 84
Mean 0.01937
Std Dev 0.93

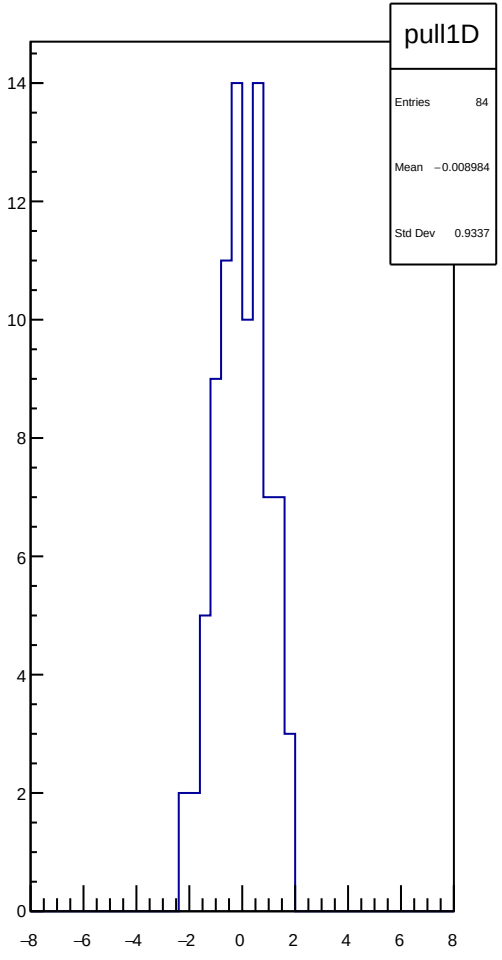

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.041e+04 / 83
p0 0.01064 ± 8.352e−06
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

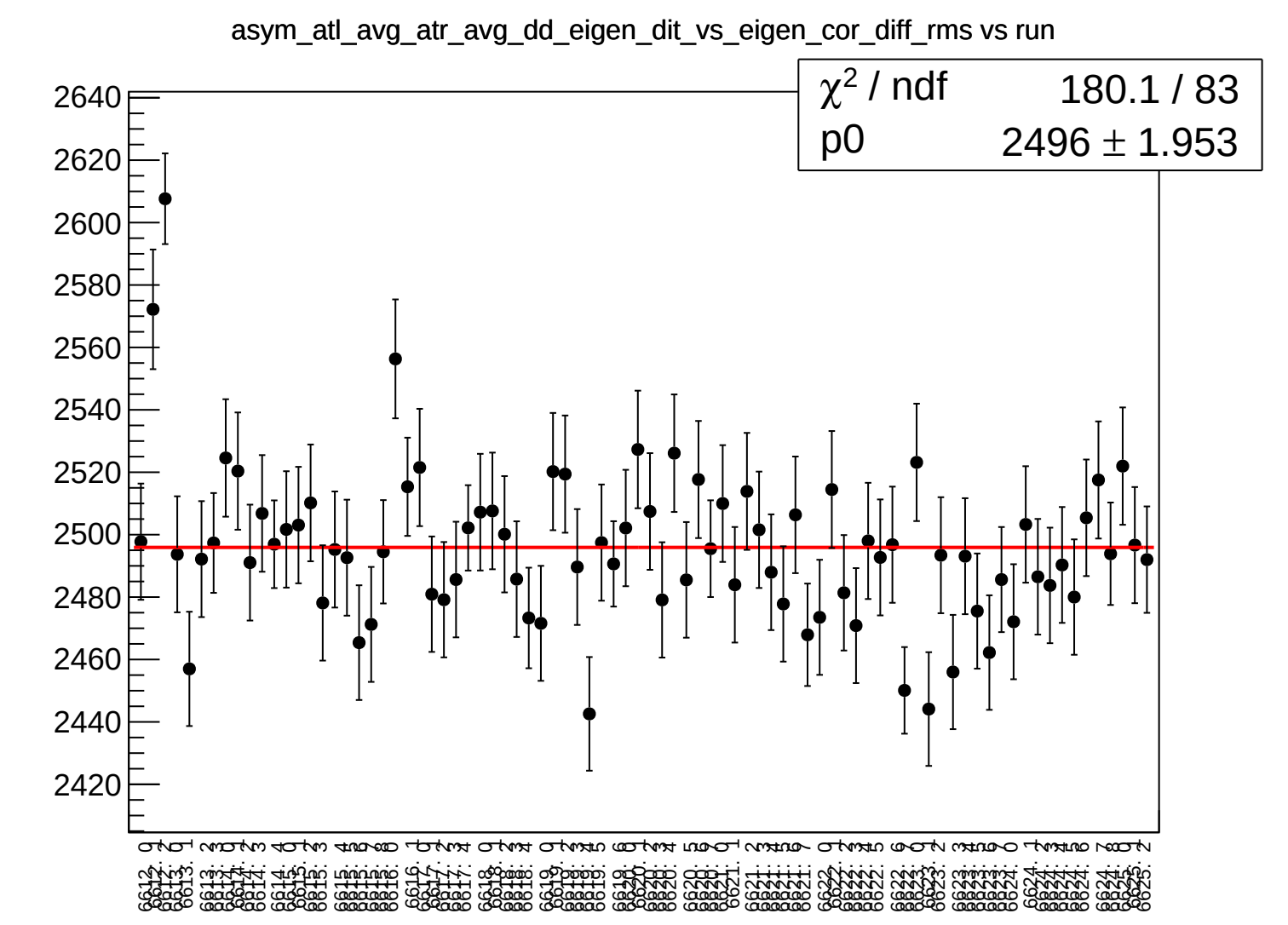

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.24 / 83
p0 −0.3386 ± 2.763
pull
Entries 84
Mean 164
Std Dev 0

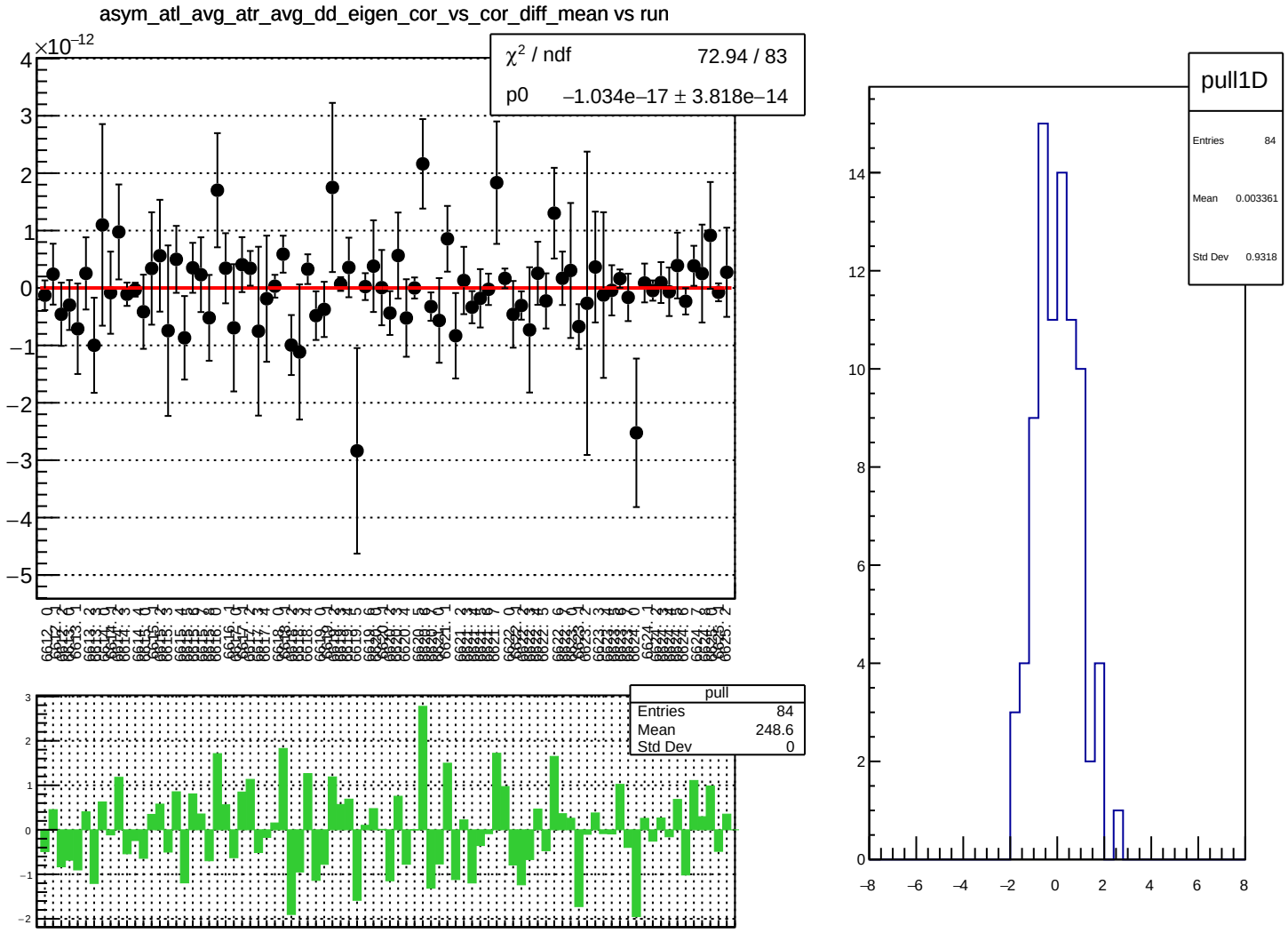

pull1D
Entries 84
Mean −0.008984
Std Dev 0.9337

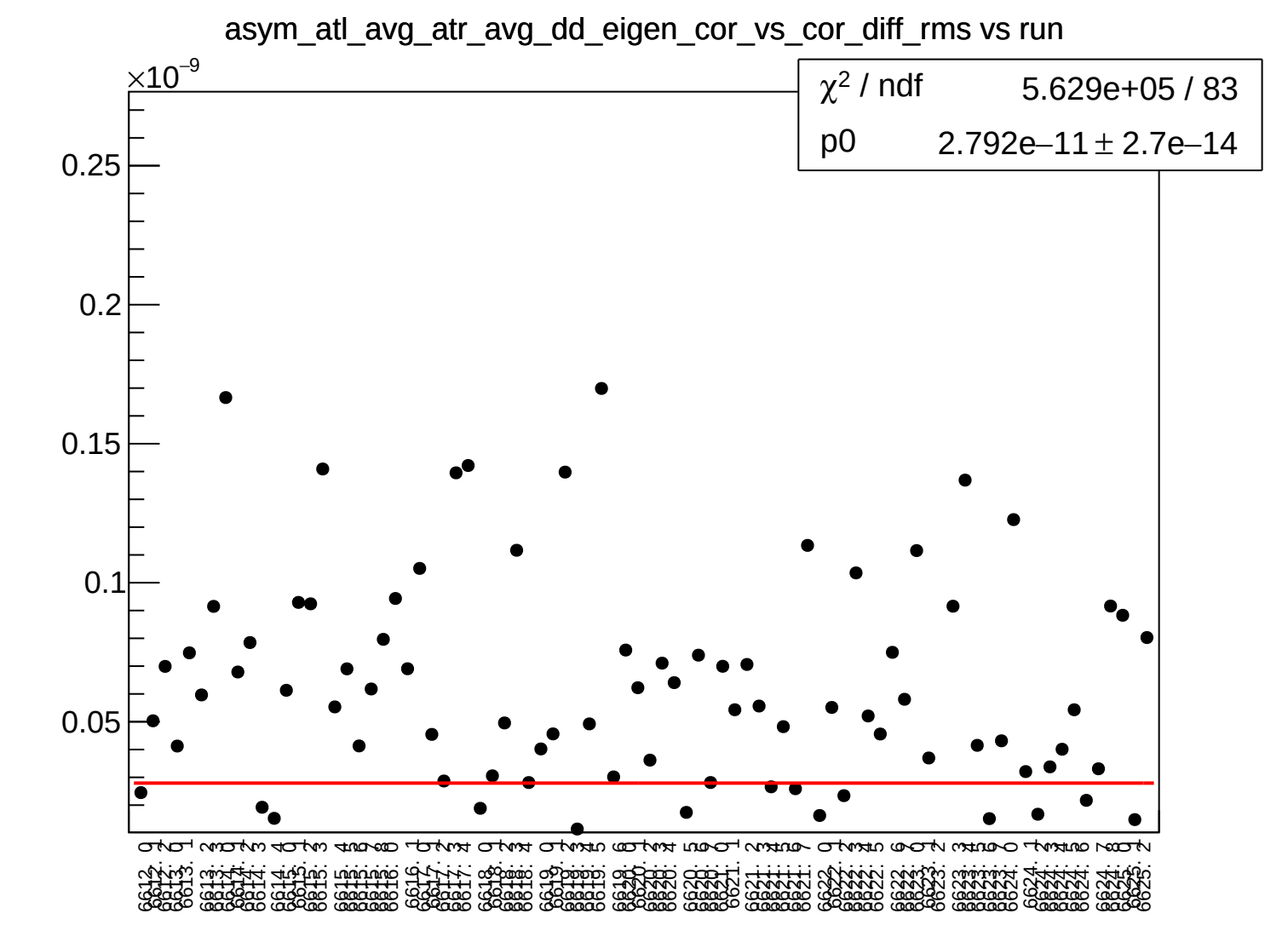

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 180.1 / 83
p0 2496 ± 1.953
2640
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

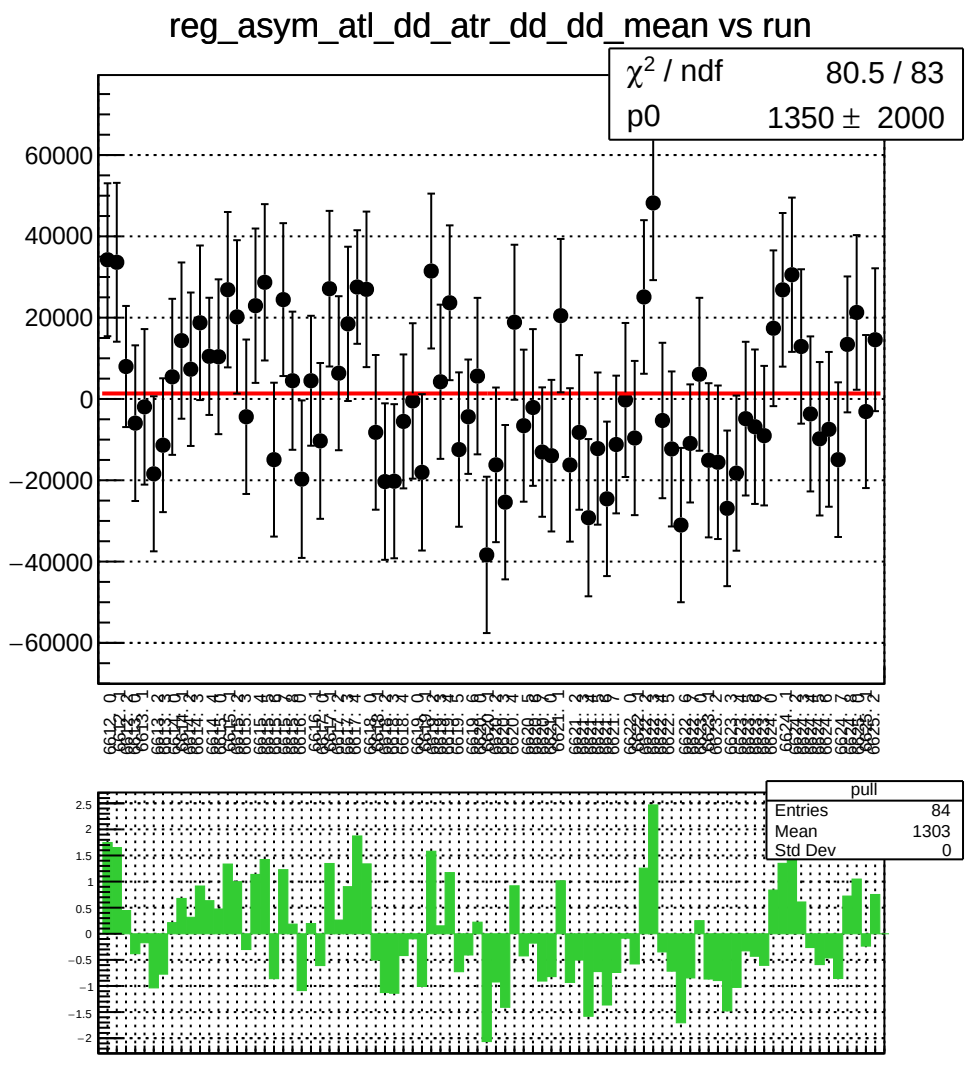

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.24 / 83
p0 −0.3386 ± 2.763
pull
Entries 84
Mean 164
Std Dev 0

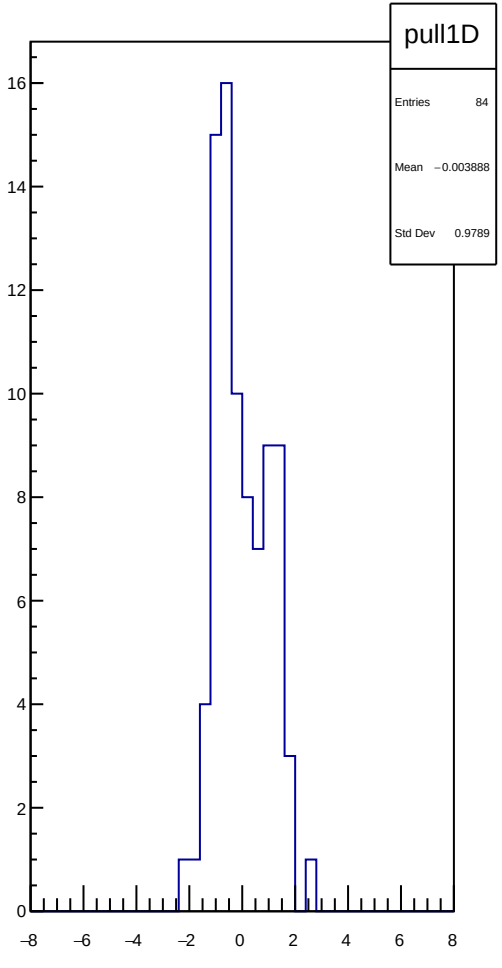

pull1D
Entries 84
Mean −0.008984
Std Dev 0.9337

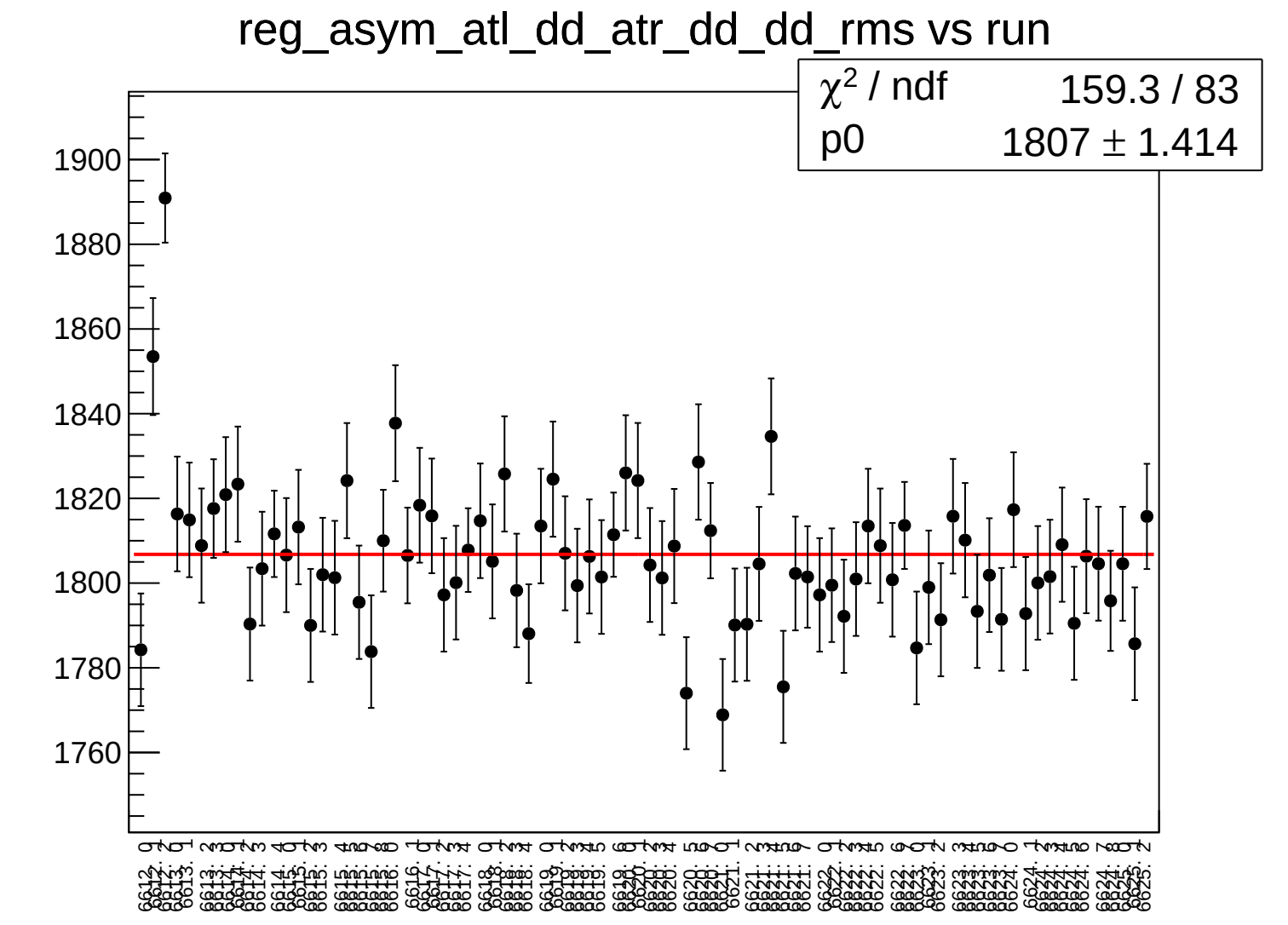

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 180.1 / 83
p0 2496 ± 1.953
2640
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

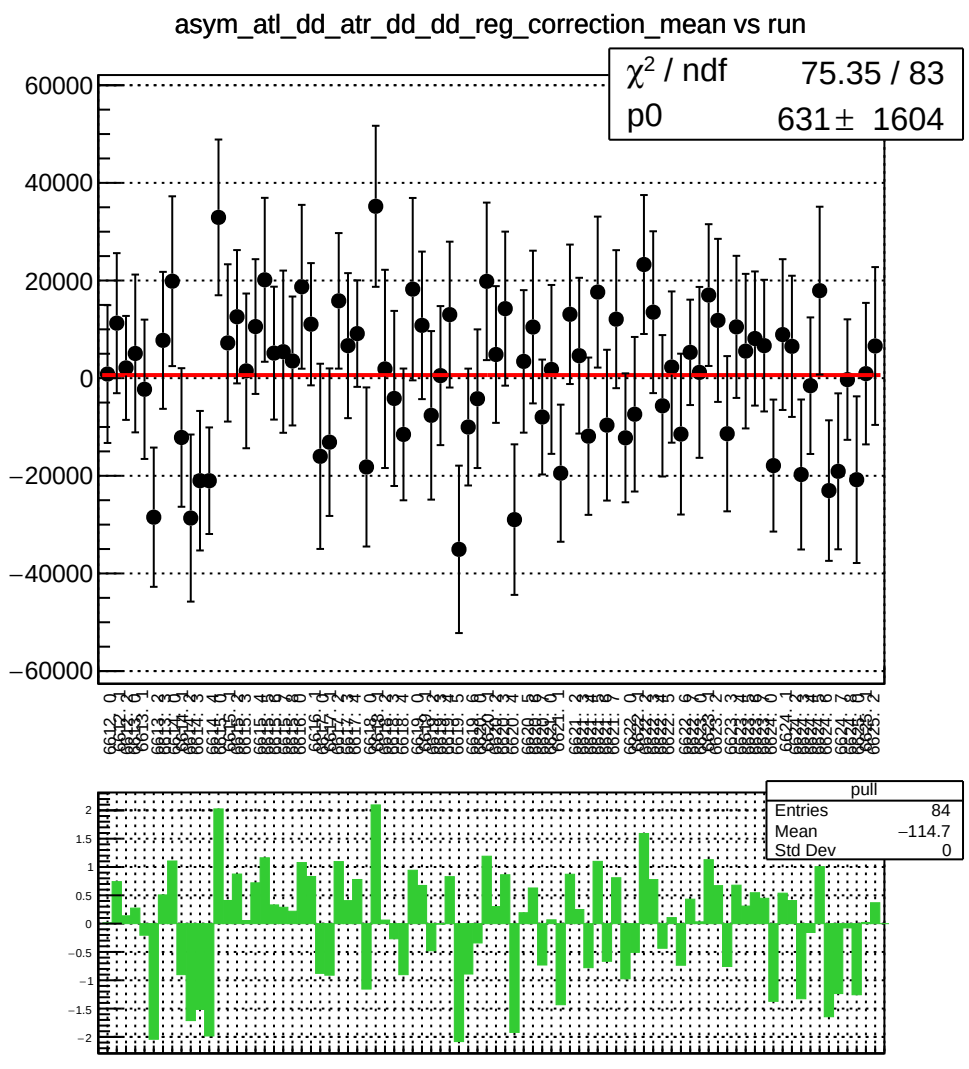

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.94 / 83
p0 −1.034e−17 ± 3.818e−14
pull
Entries 84
Mean 248.6
Std Dev 0
pull1D
Entries 84
Mean 0.003361
Std Dev 0.9318

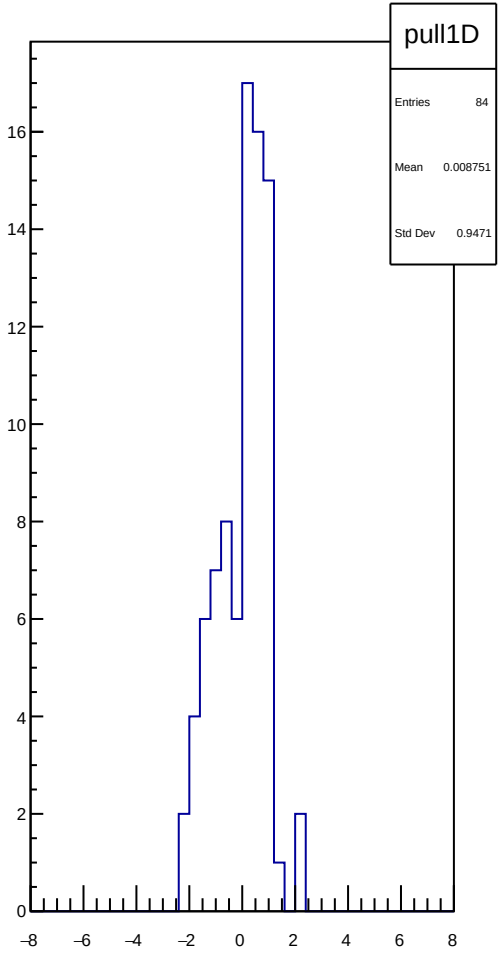

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.629e+05 / 83
p0 2.792e−11 ± 2.7e−14
0.25
0.2
0.15
0.1
0.05

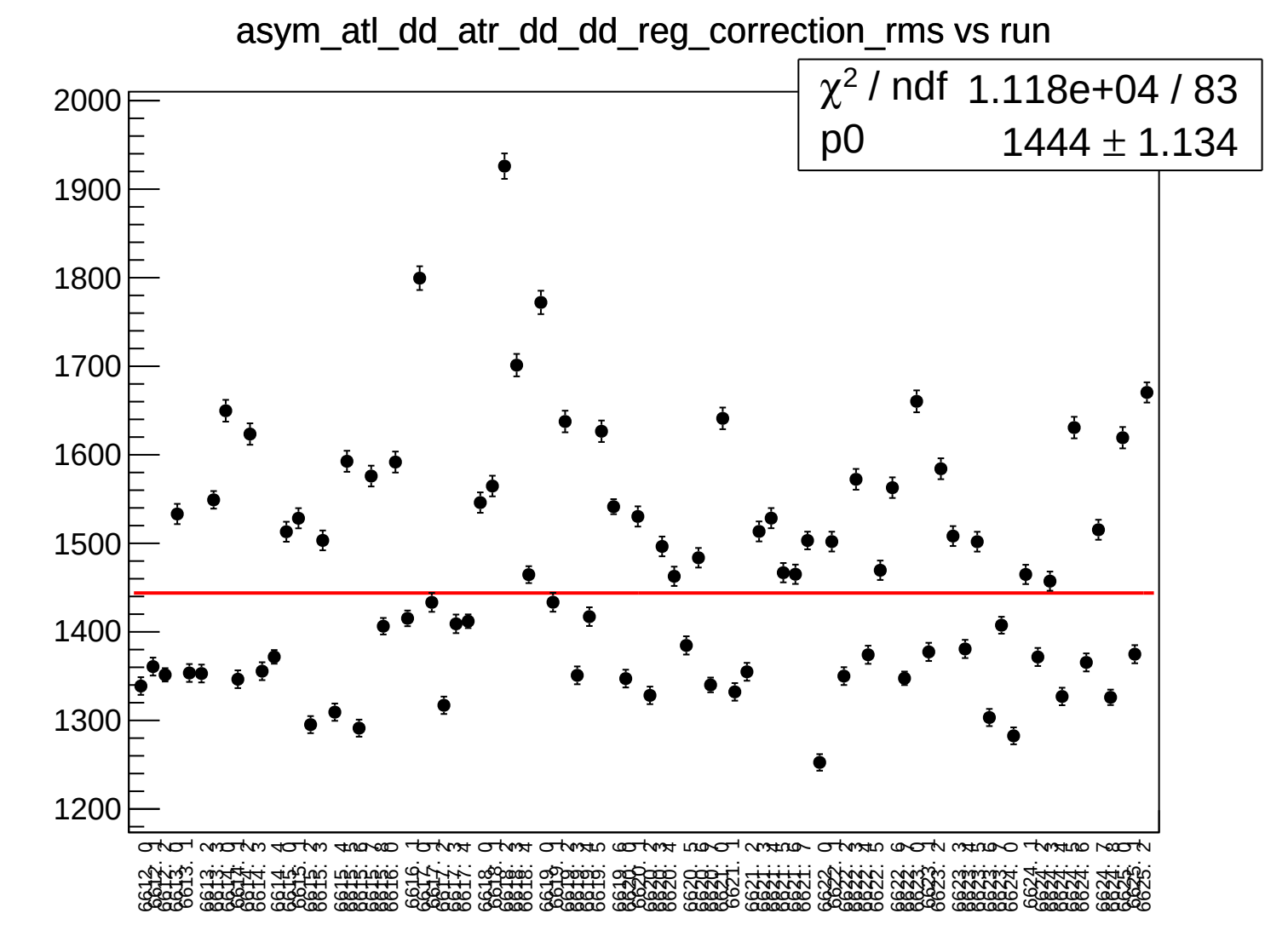

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 80.5 / 83
p0 1350 ± 2000
pull
Entries 84
Mean 1303
Std Dev 0

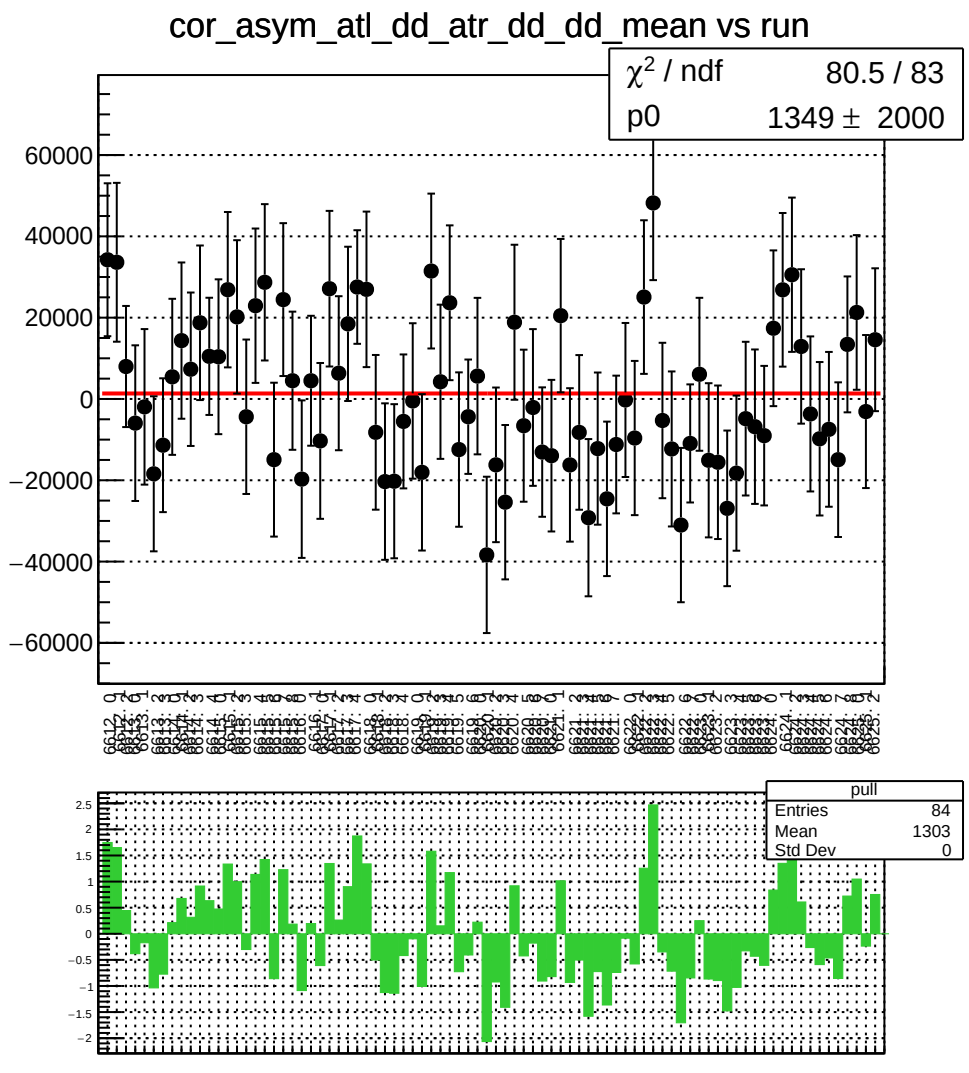

pull1D
Entries 84
Mean −0.003888
Std Dev 0.9789

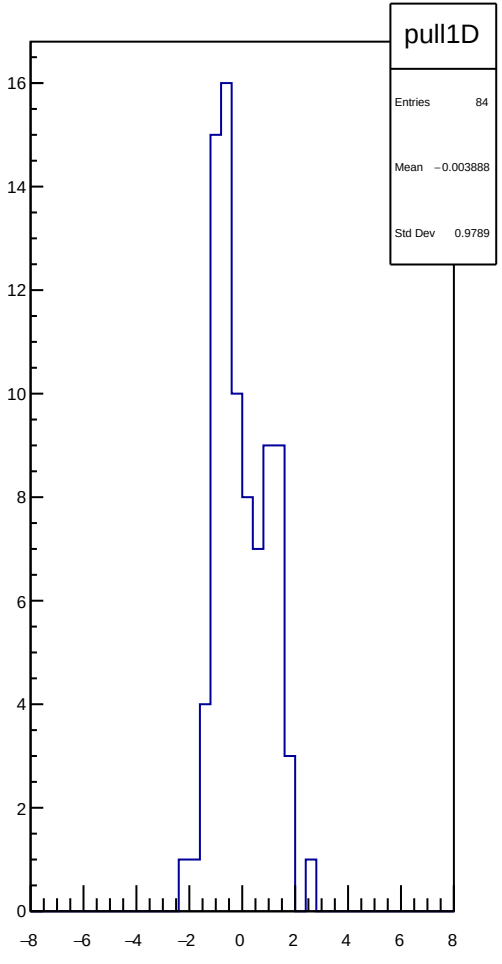

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 159.3 / 83
p0 1807 ± 1.414
1900
1880
1860
1840
1820
1800
1780
1760

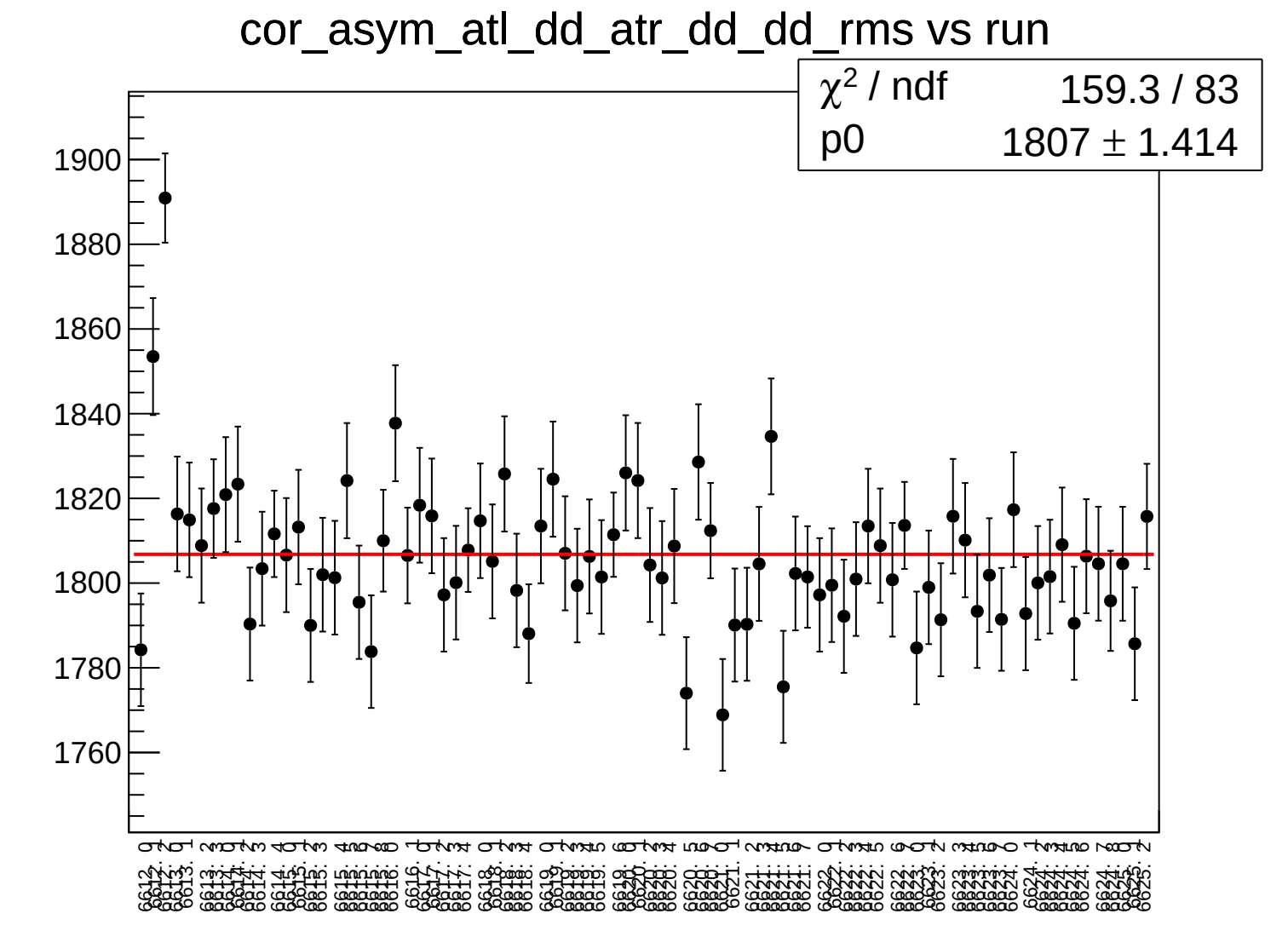

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 75.35 / 83
p0 631 ± 1604
pull
Entries 84
Mean −114.7
Std Dev 0

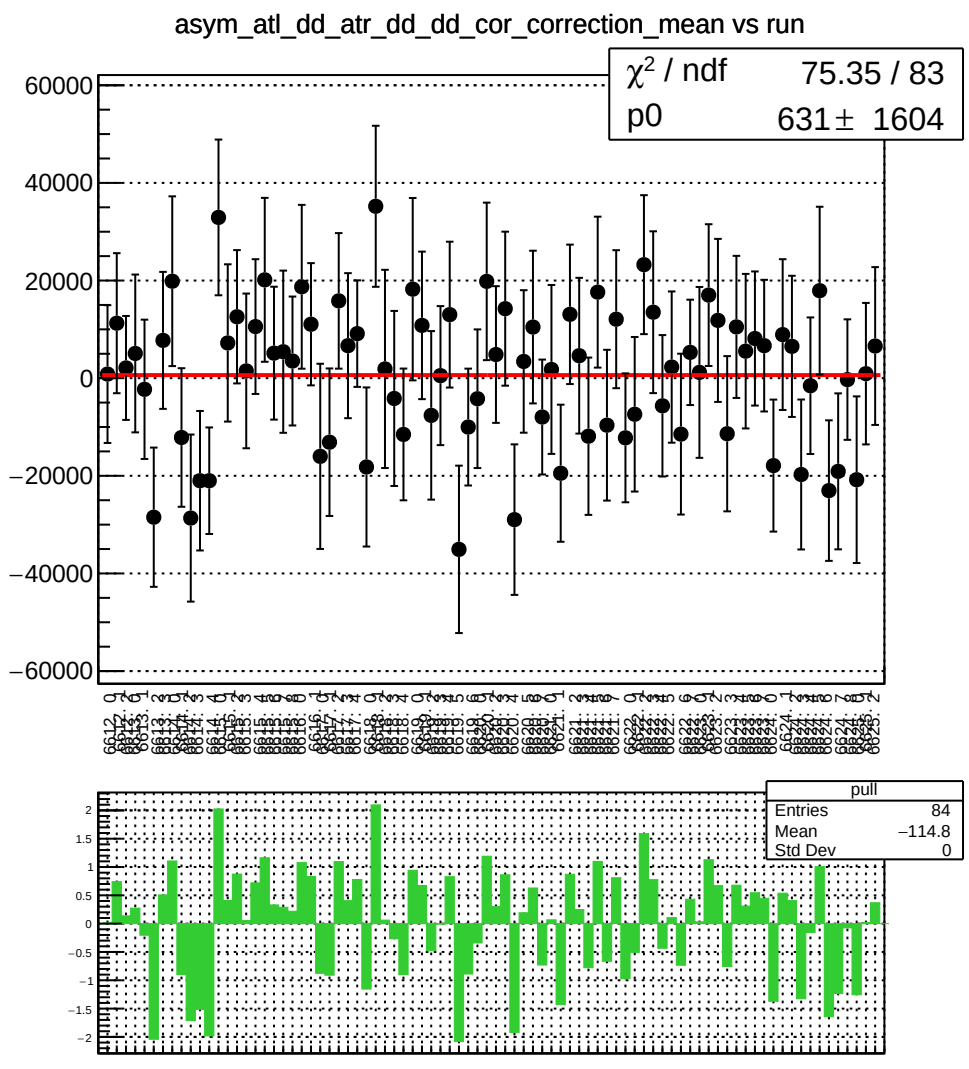

pull1D
Entries 84
Mean 0.008751
Std Dev 0.9471

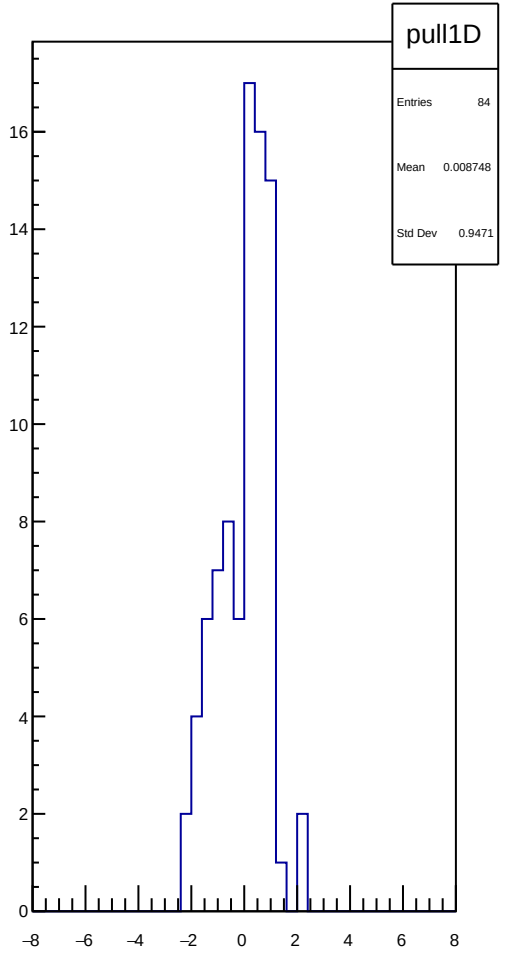

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.118e+04 / 83
p0 1444 ± 1.134
2000
1900
1800
1700
1600
1500
1400
1300
1200

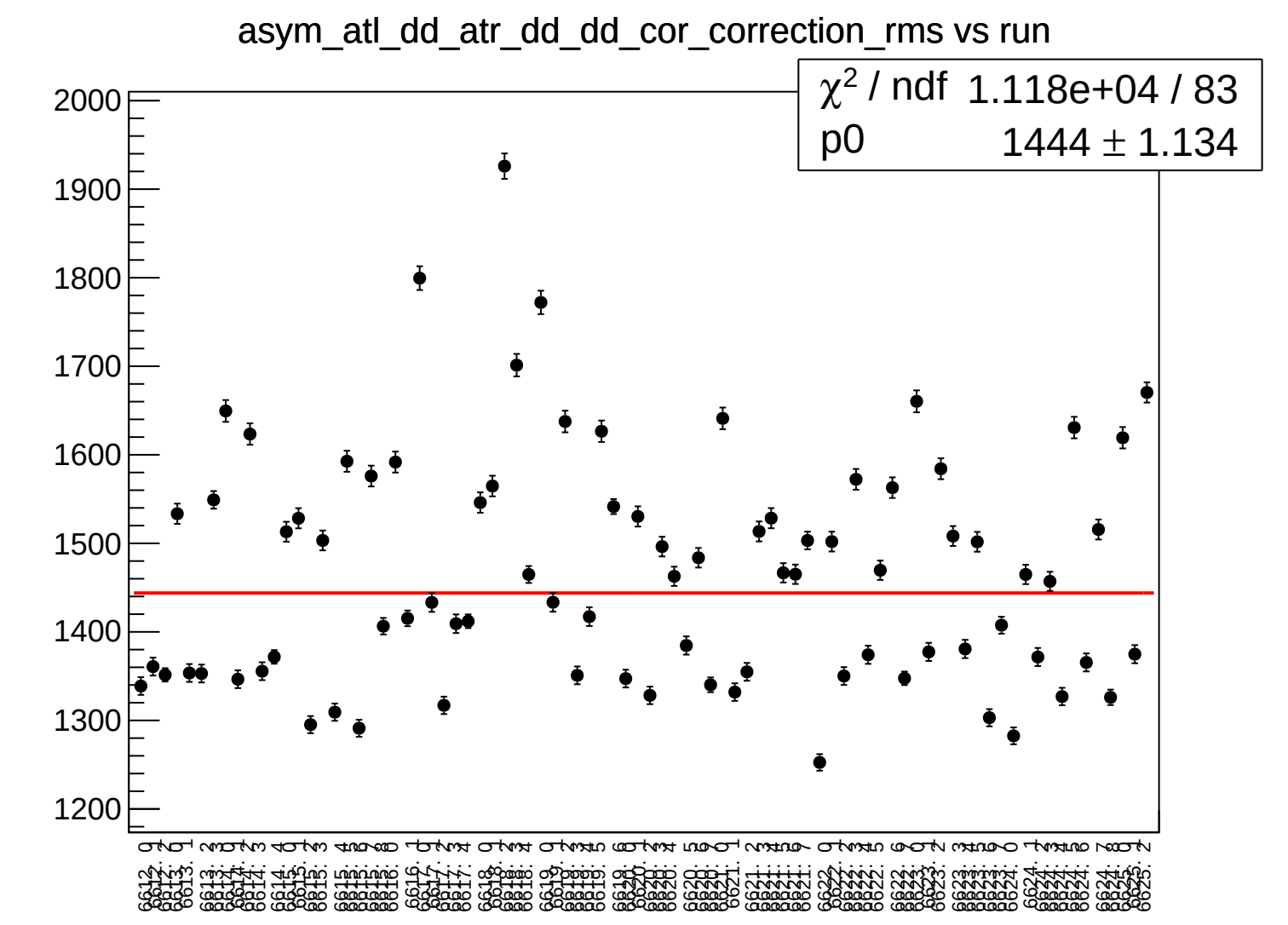

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 80.5 / 83
p0 1349 ± 2000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1303
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

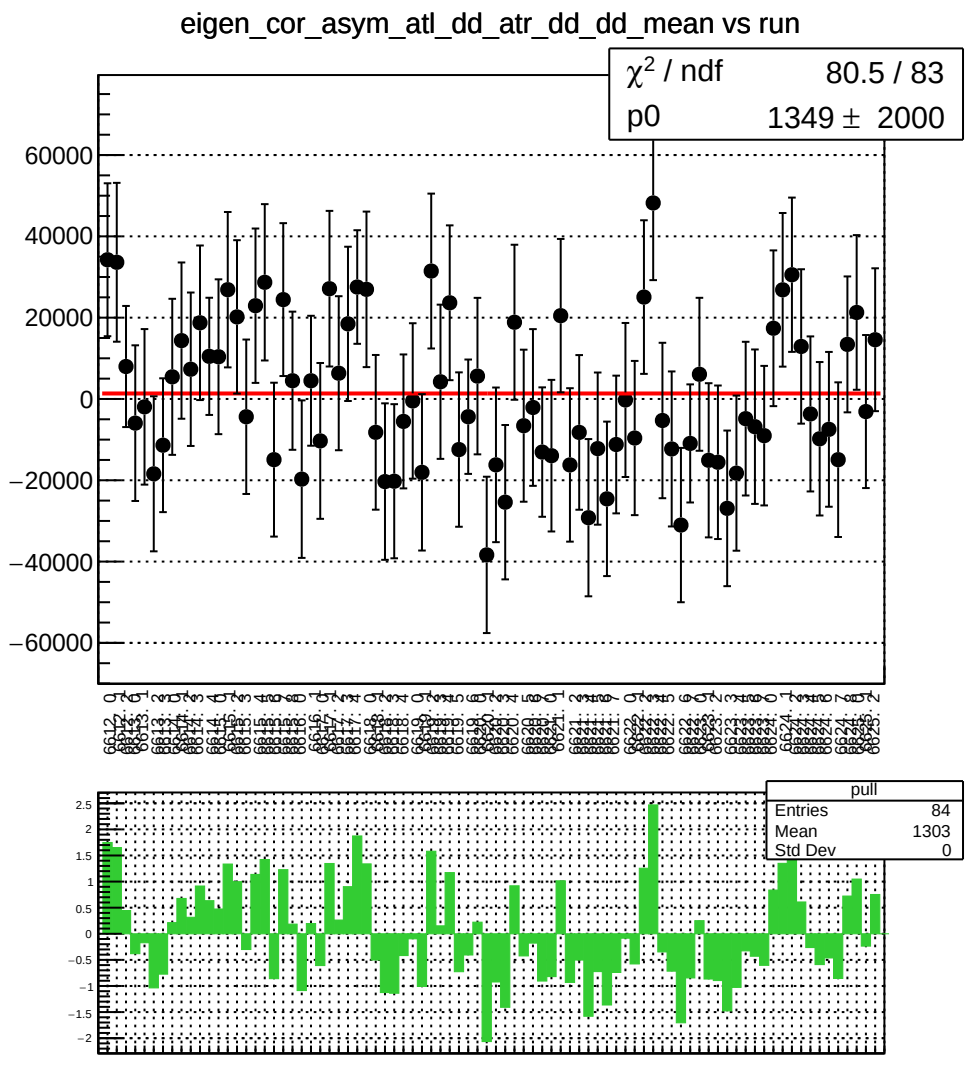

pull1D
Entries 84
Mean −0.003888
Std Dev 0.9789
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

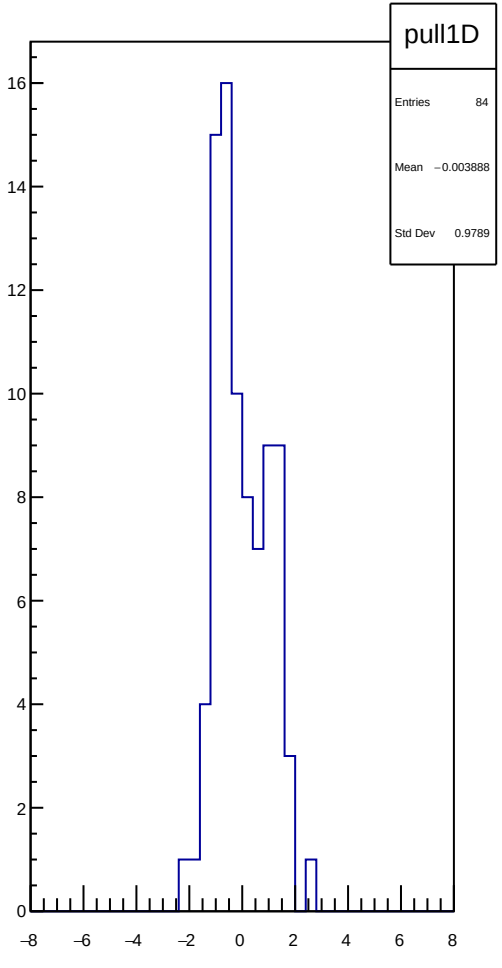

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 159.3 / 83
p0 1807 ± 1.414
1900
1880
1860
1840
1820
1800
1780
1760

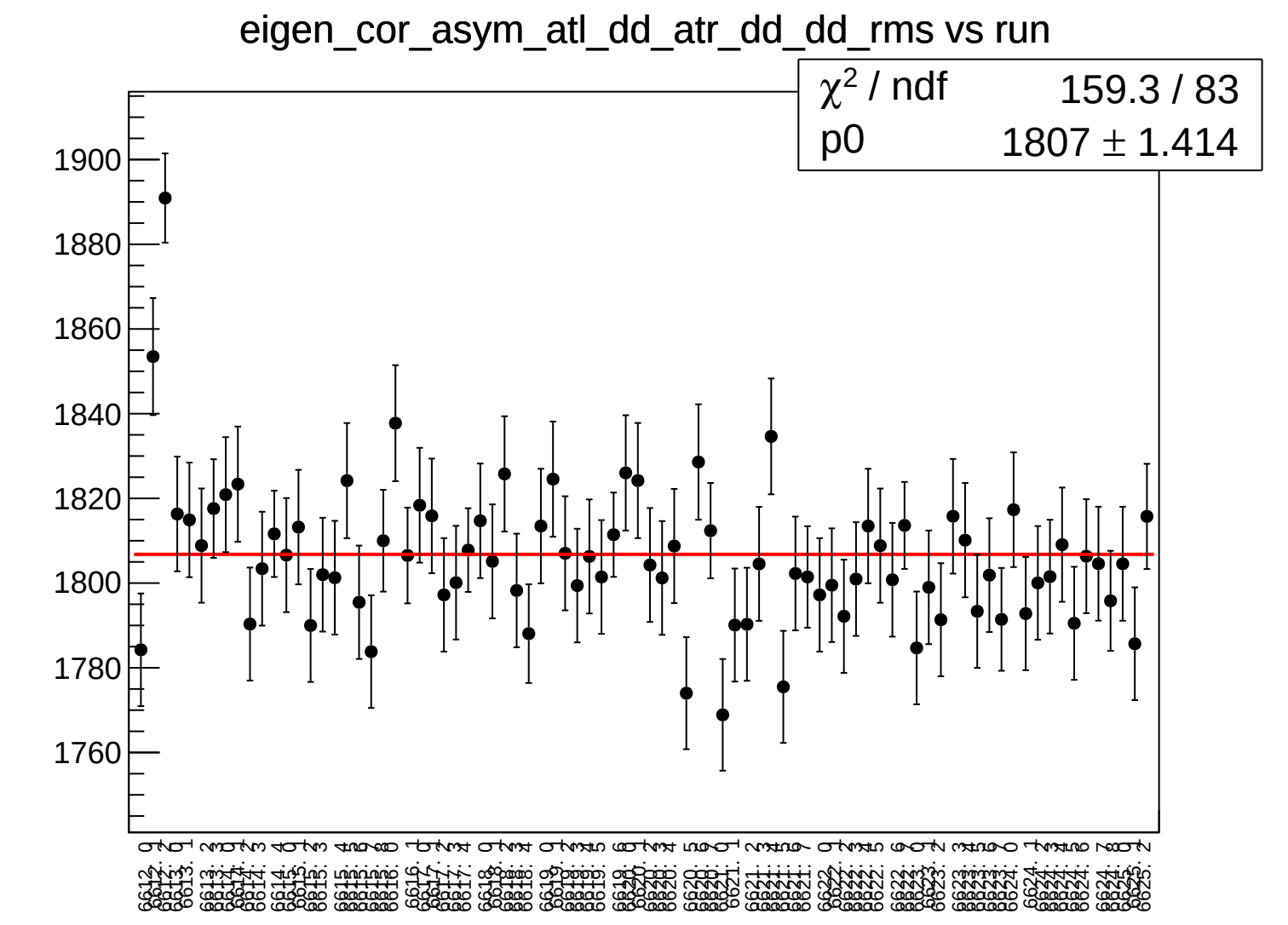

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 75.35 / 83
p0 631 ± 1604
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −114.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

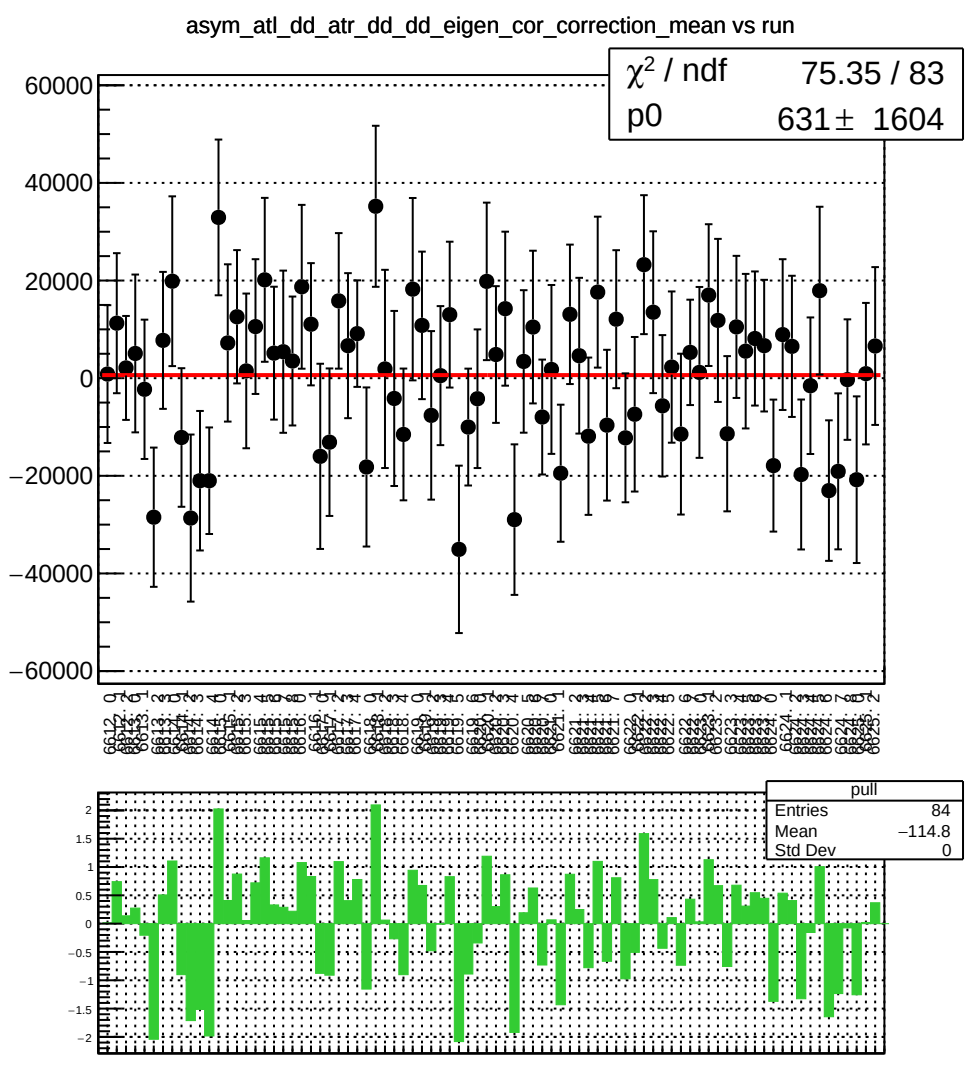

pull1D
Entries 84
Mean 0.008748
Std Dev 0.9471
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

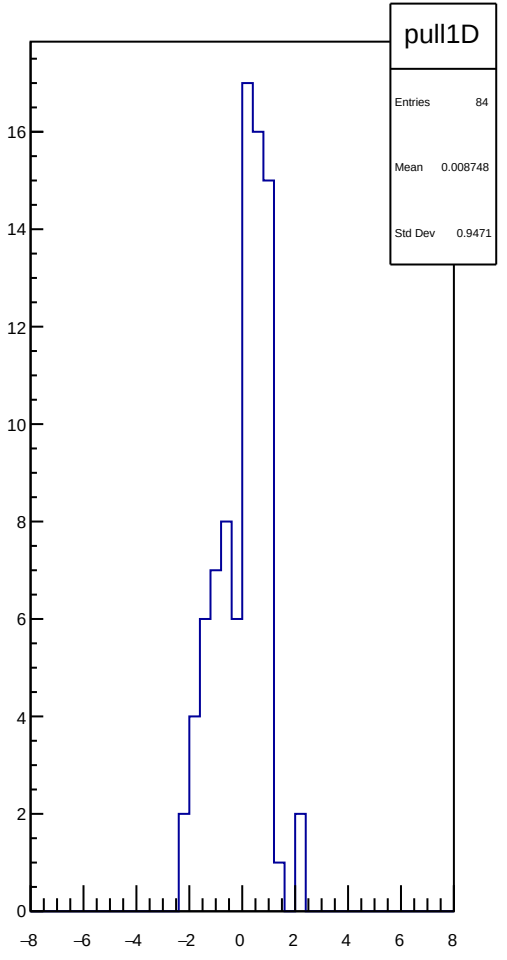

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.118e+04 / 83
p0 1444 ± 1.134
2000
1900
1800
1700
1600
1500
1400
1300
1200

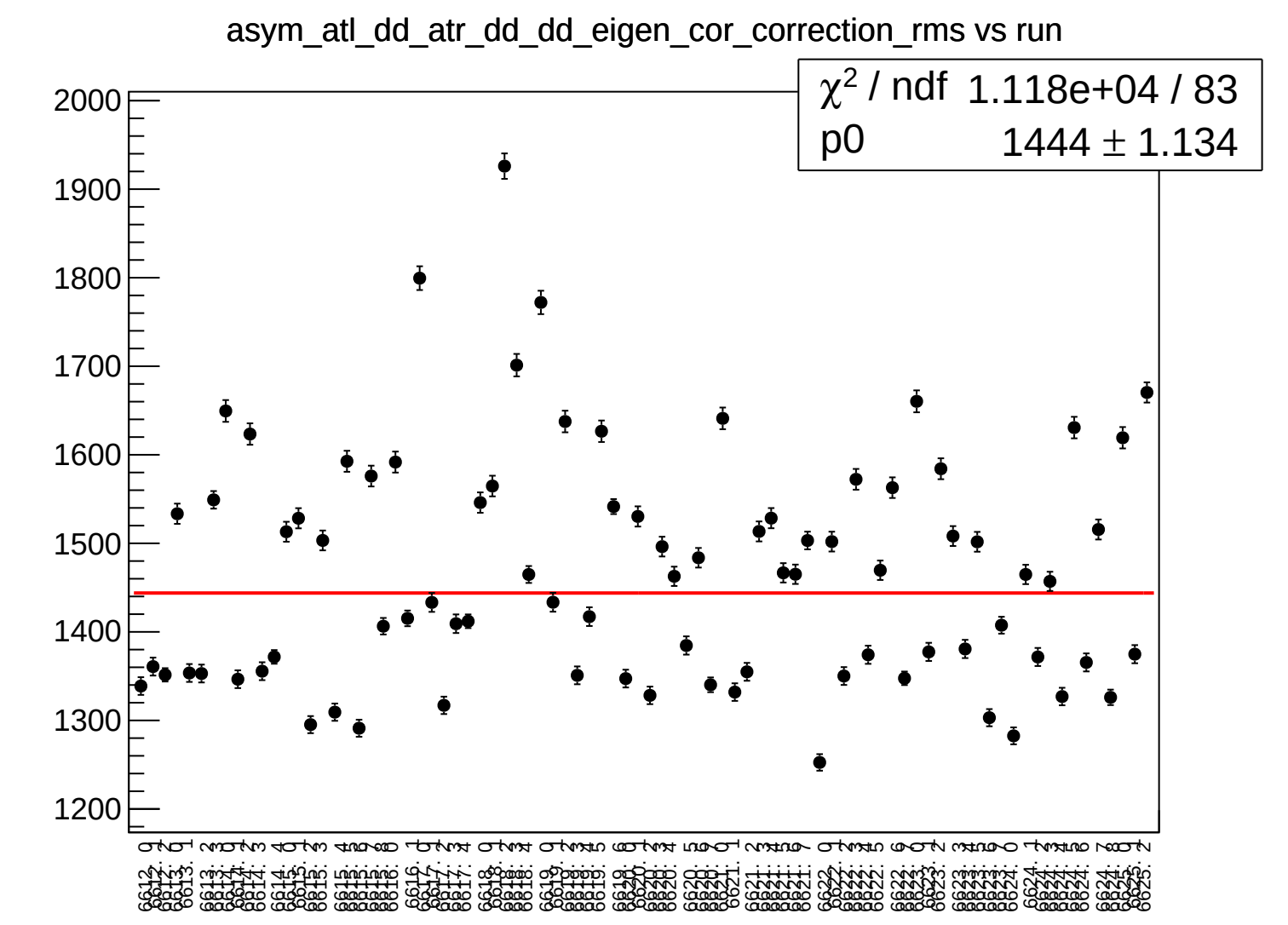

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 80.5 / 83
p0 1349 ± 2000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1303
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

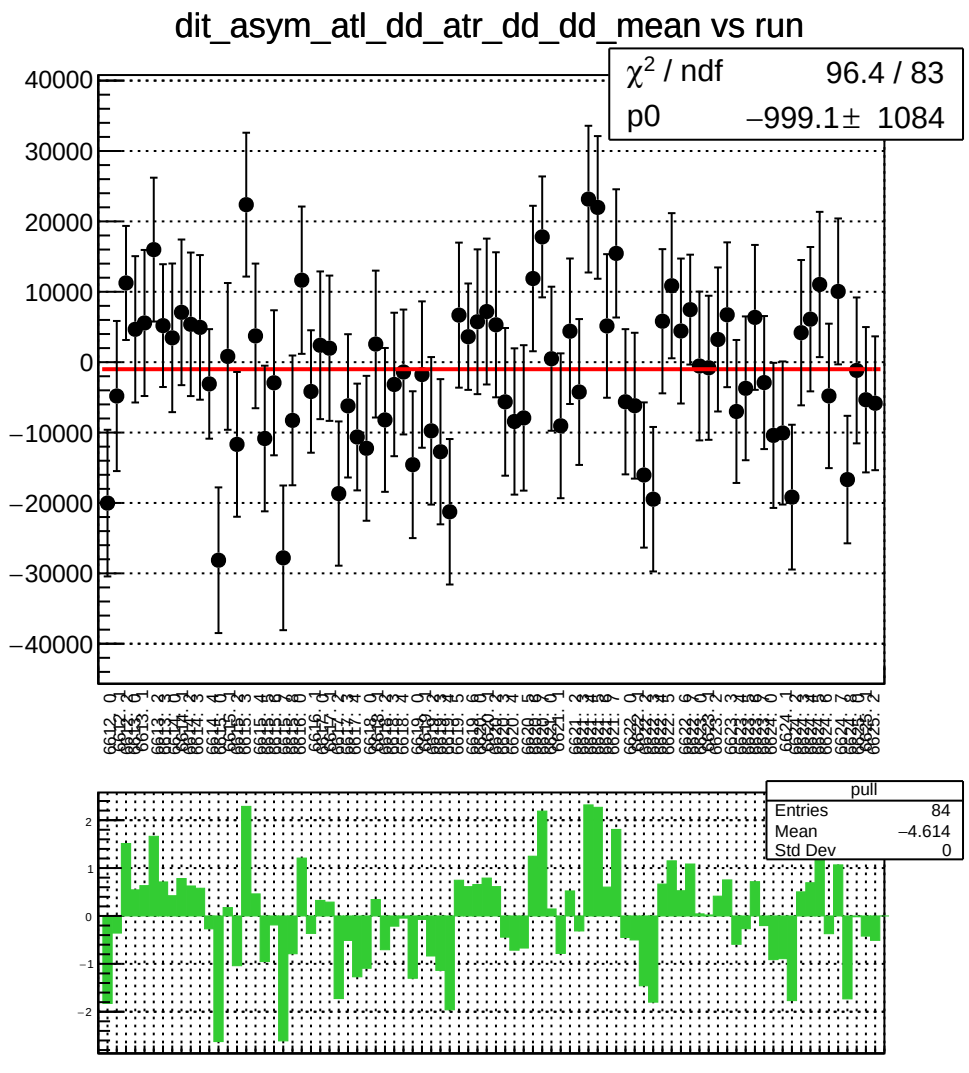

pull1D
Entries 84
Mean −0.003888
Std Dev 0.9789
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

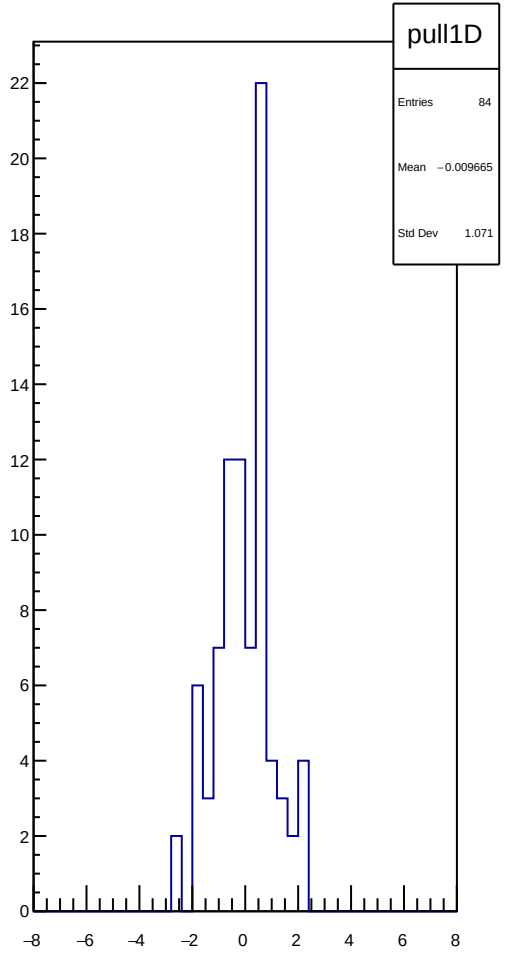

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 159.3 / 83
p0 1807 ± 1.414
1900
1880
1860
1840
1820
1800
1780
1760

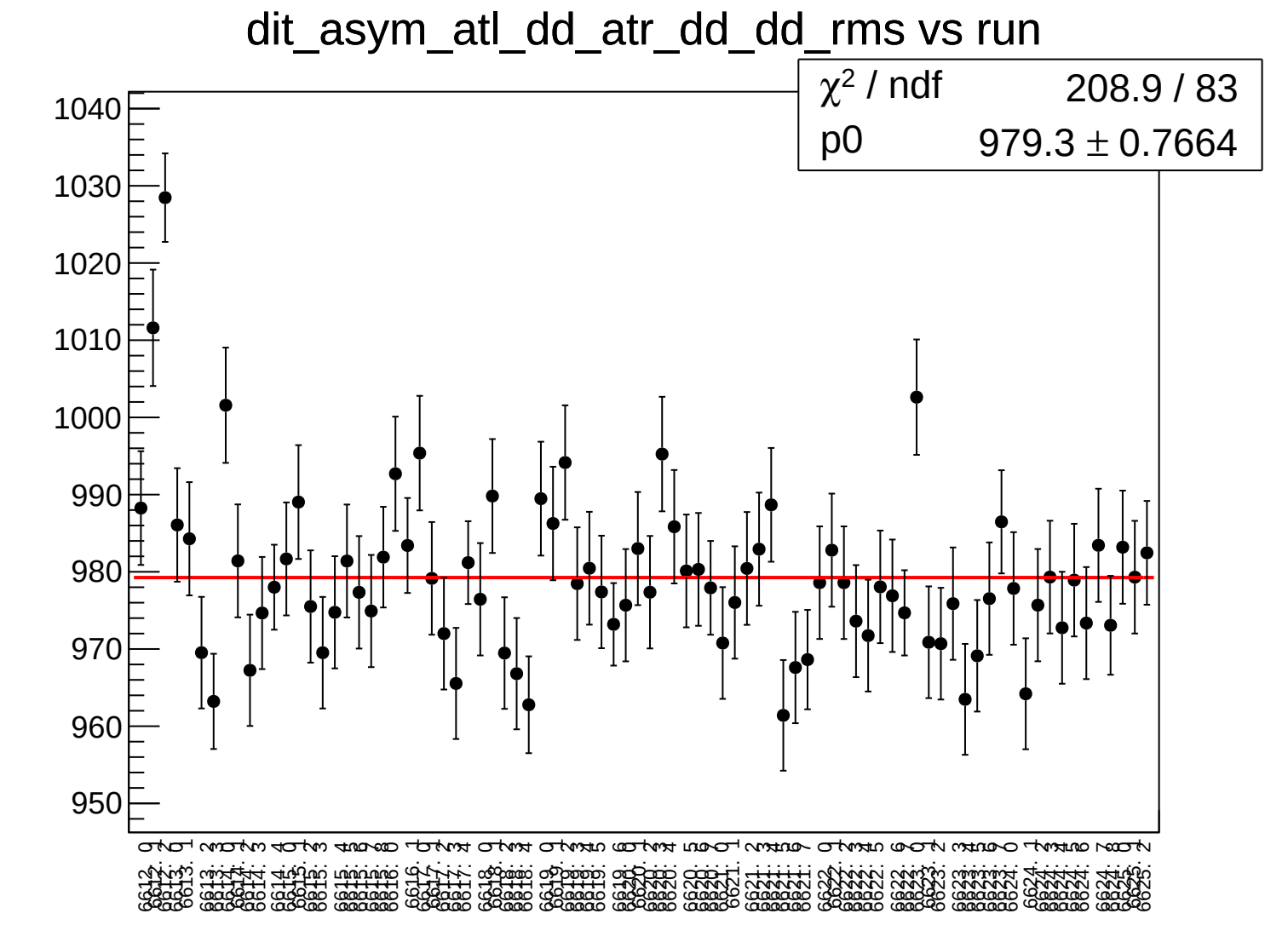

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.35 / 83
p0 631 ± 1604
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −114.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

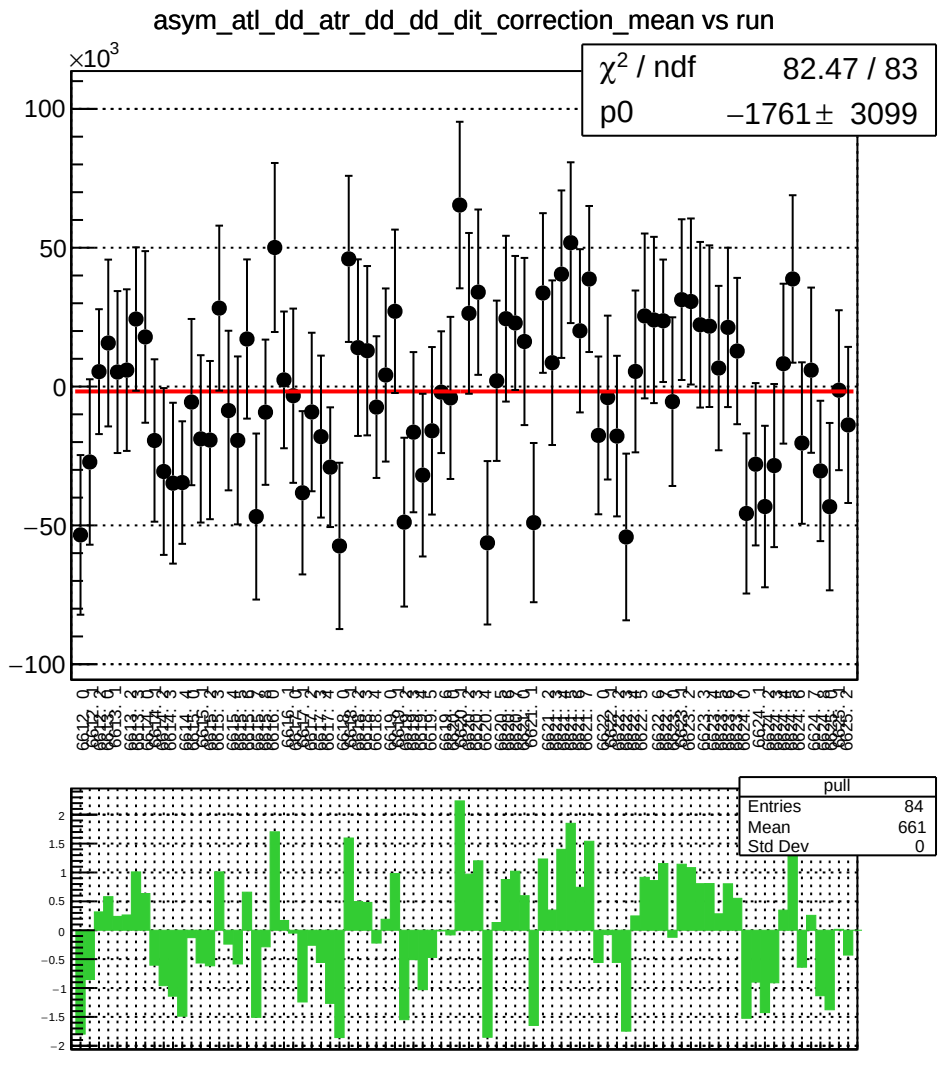

pull1D
Entries 84
Mean 0.008748
Std Dev 0.9471
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

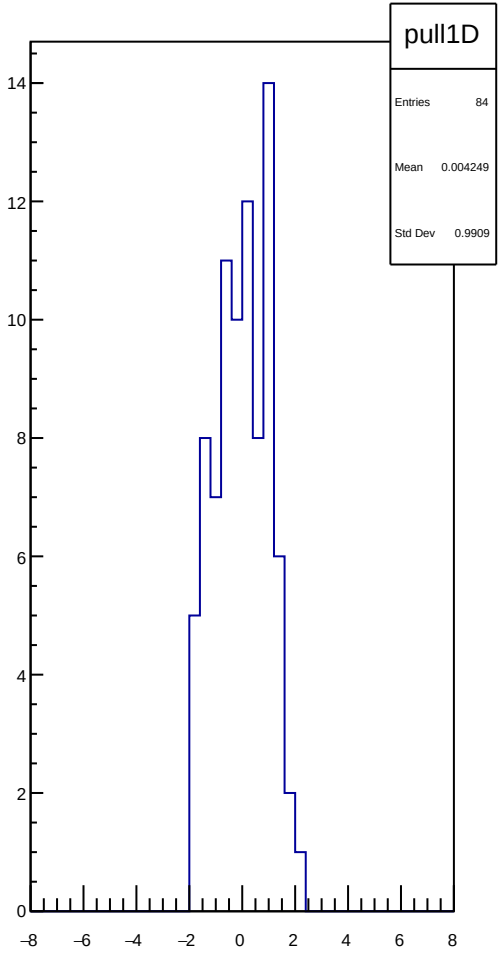

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.118e+04 / 83
p0 1444 ± 1.134
2000
1900
1800
1700
1600
1500
1400
1300
1200

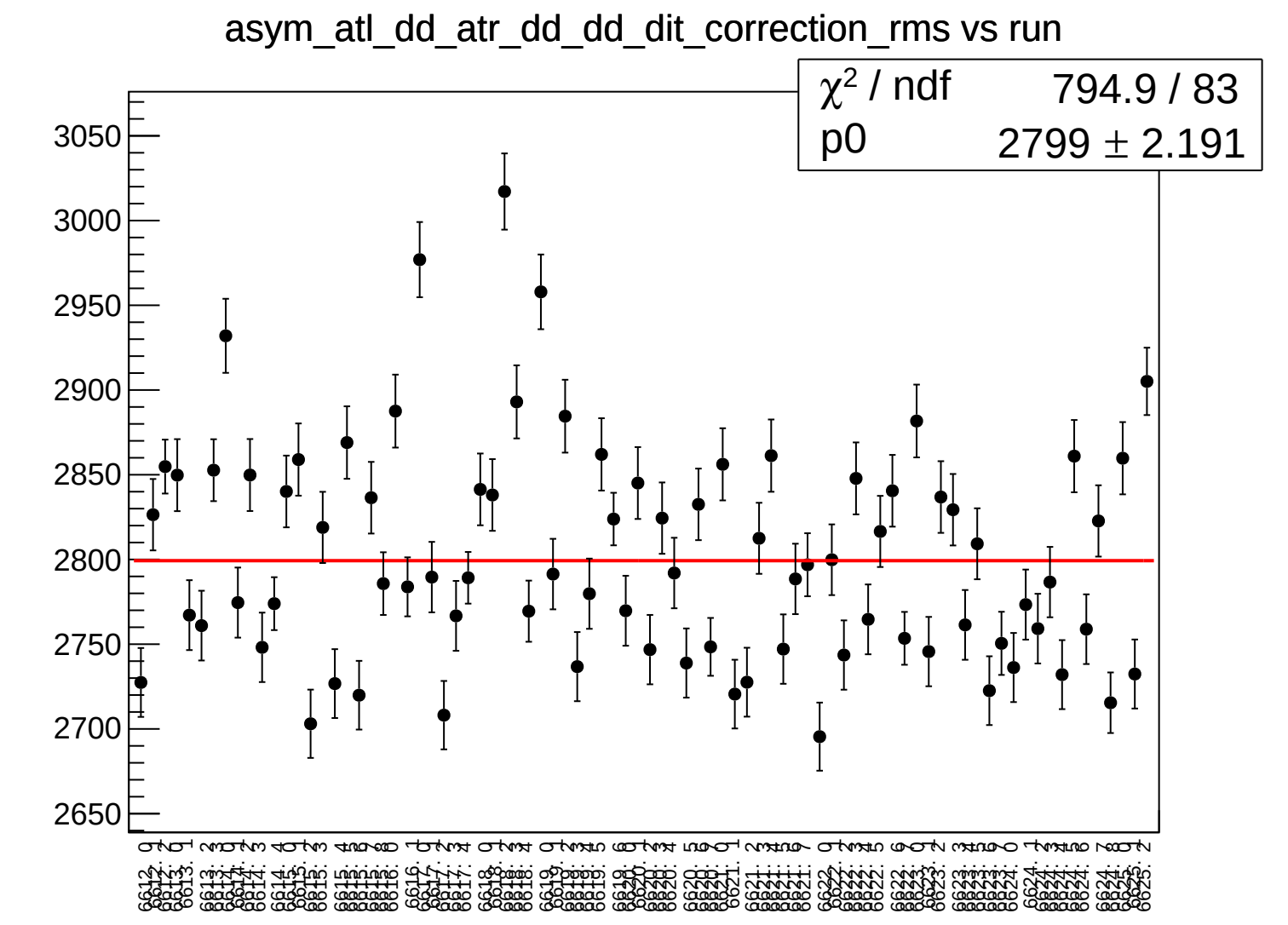

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 96.4 / 83
p0 −999.1± 1084
pull
Entries 84
Mean −4.614
Std Dev 0

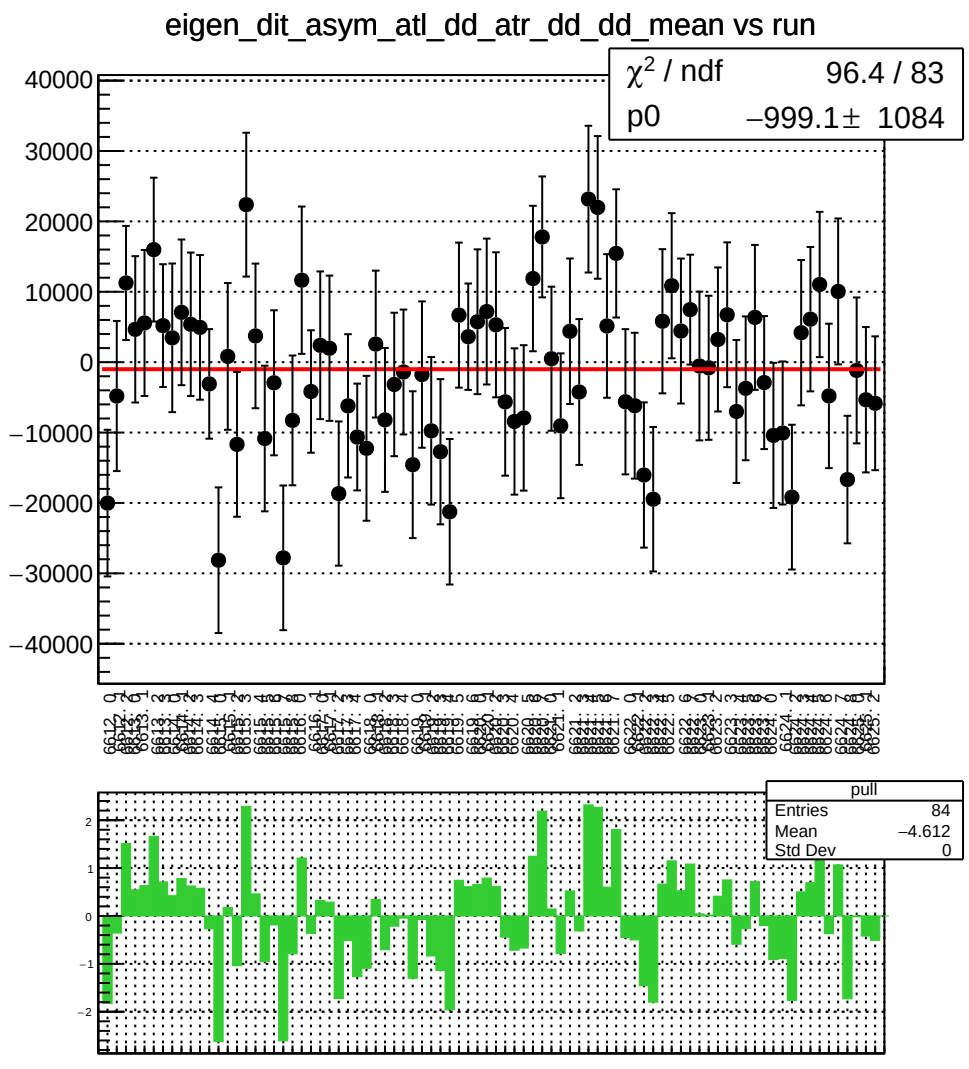

pull1D
Entries 84
Mean −0.009665
Std Dev 1.071

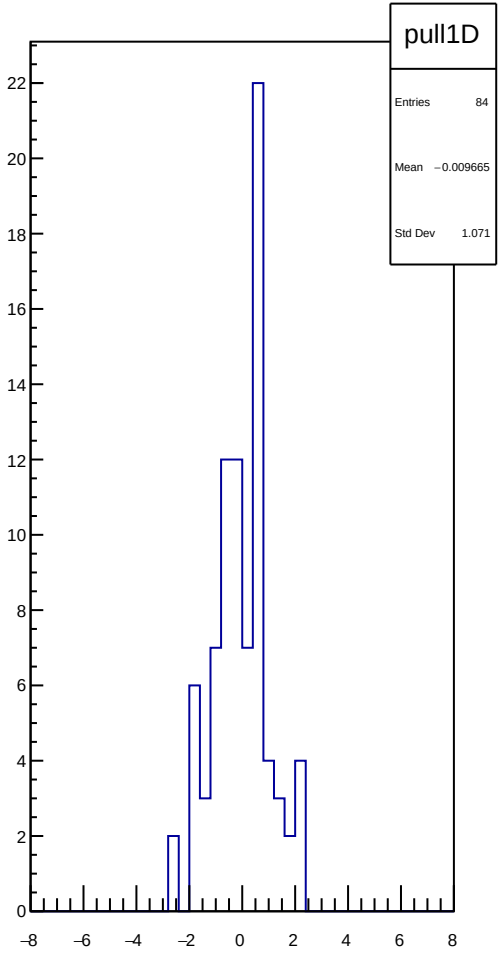

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 208.9 / 83
p0 979.3 ± 0.7664
1040
1030
1020
1010
1000
990
980
970
960
950

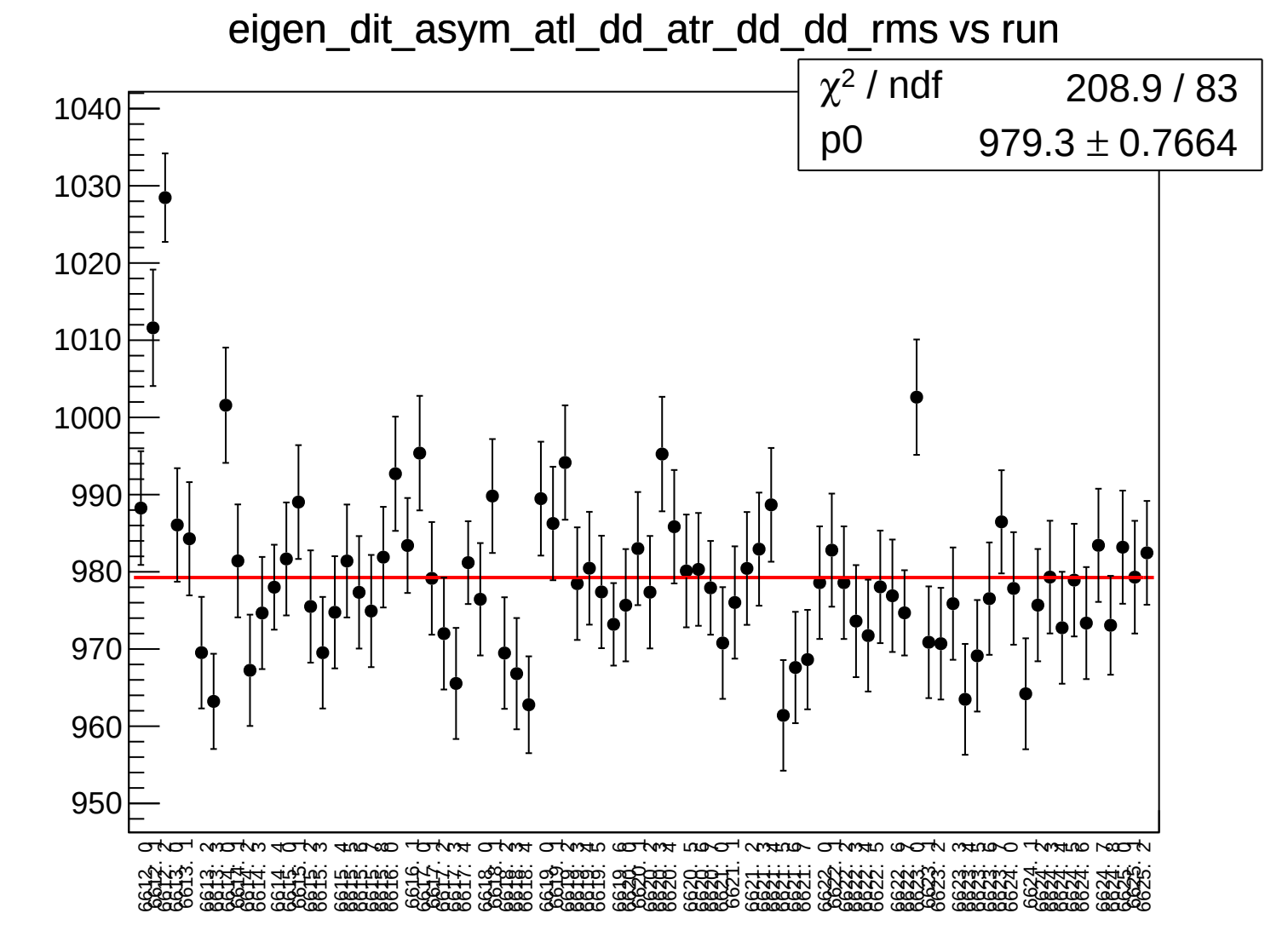

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.47 / 83
p0 −1761 ± 3099
pull
Entries 84
Mean 661
Std Dev 0

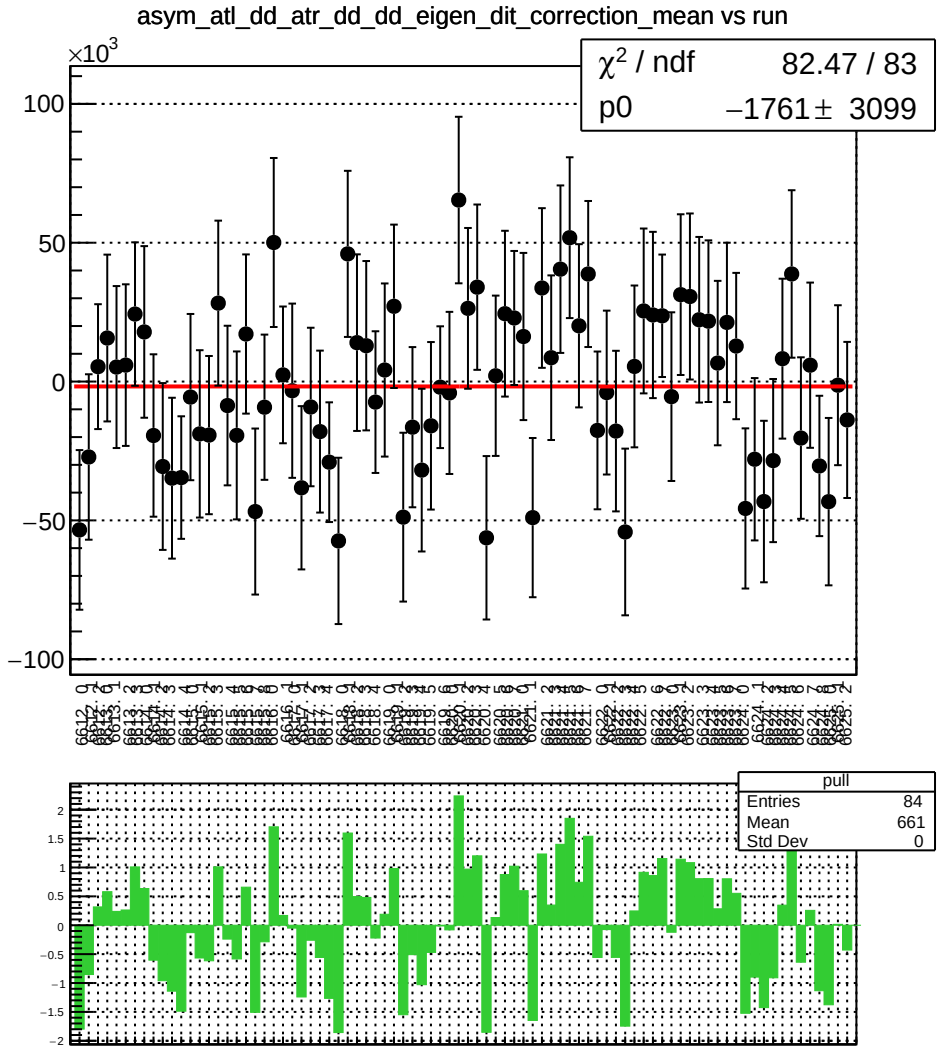

pull1D
Entries 84
Mean 0.004249
Std Dev 0.9909

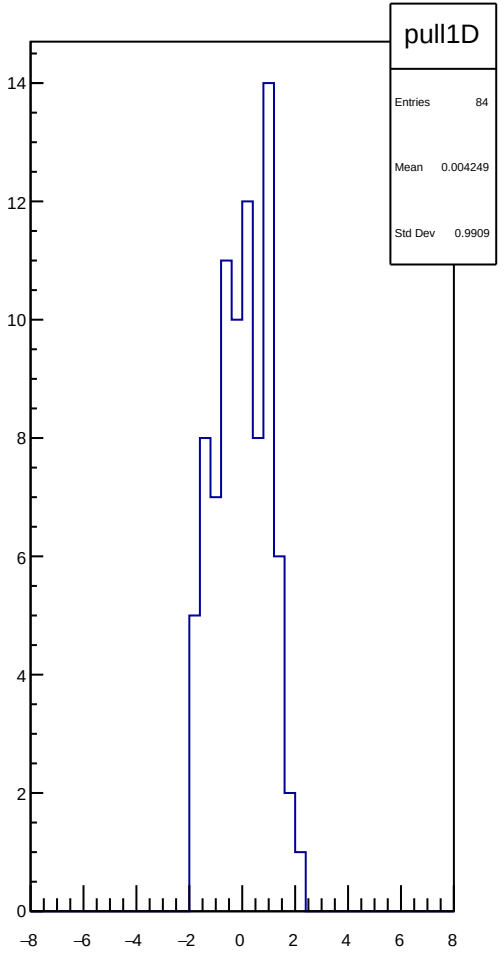

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 794.9 / 83
p0 2799 ± 2.191
3050
3000
2950
2900
2850
2800
2750
2700
2650

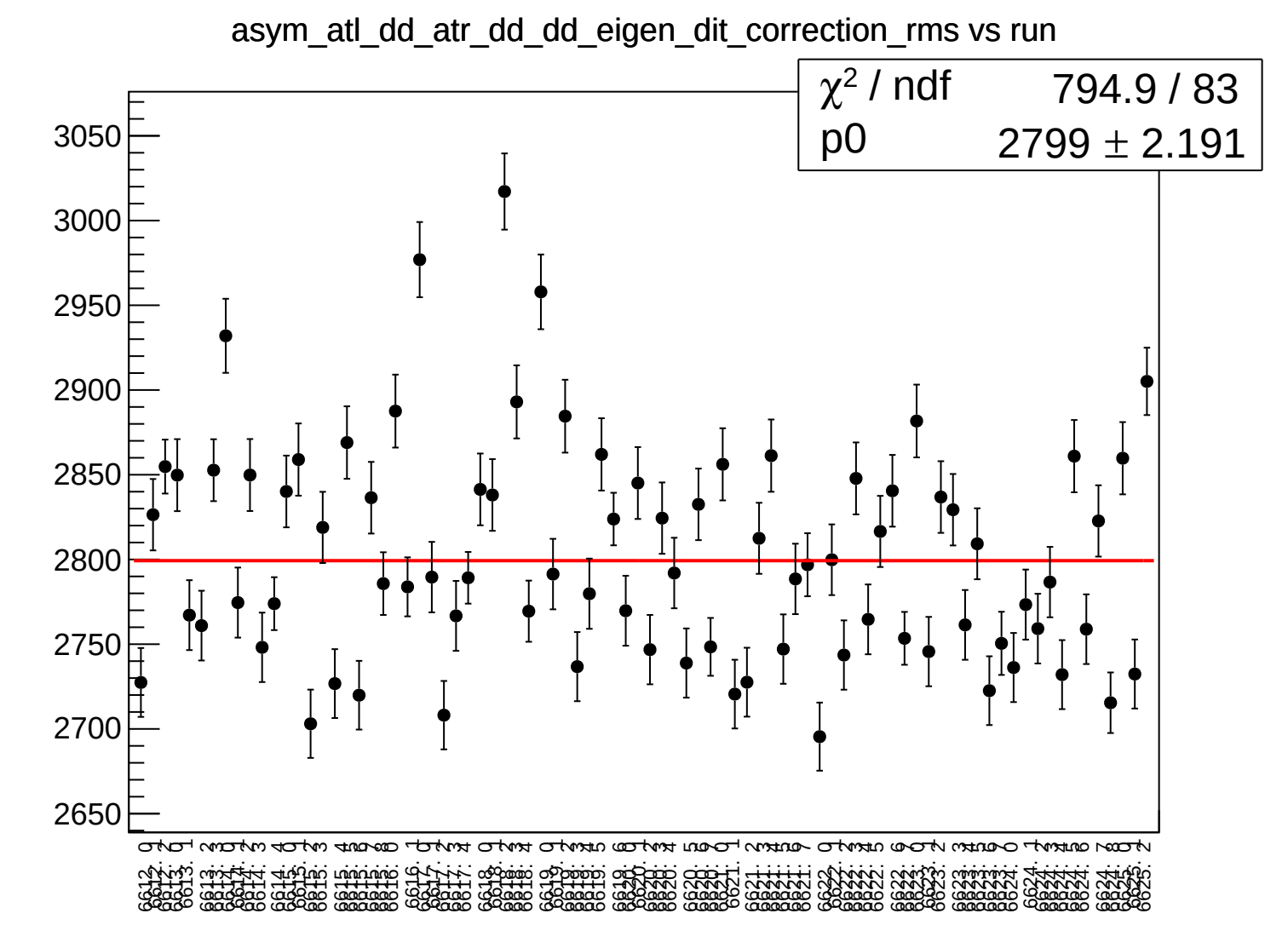

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 96.4 / 83
p0 −999.1± 1084
pull
Entries 84
Mean −4.612
Std Dev 0

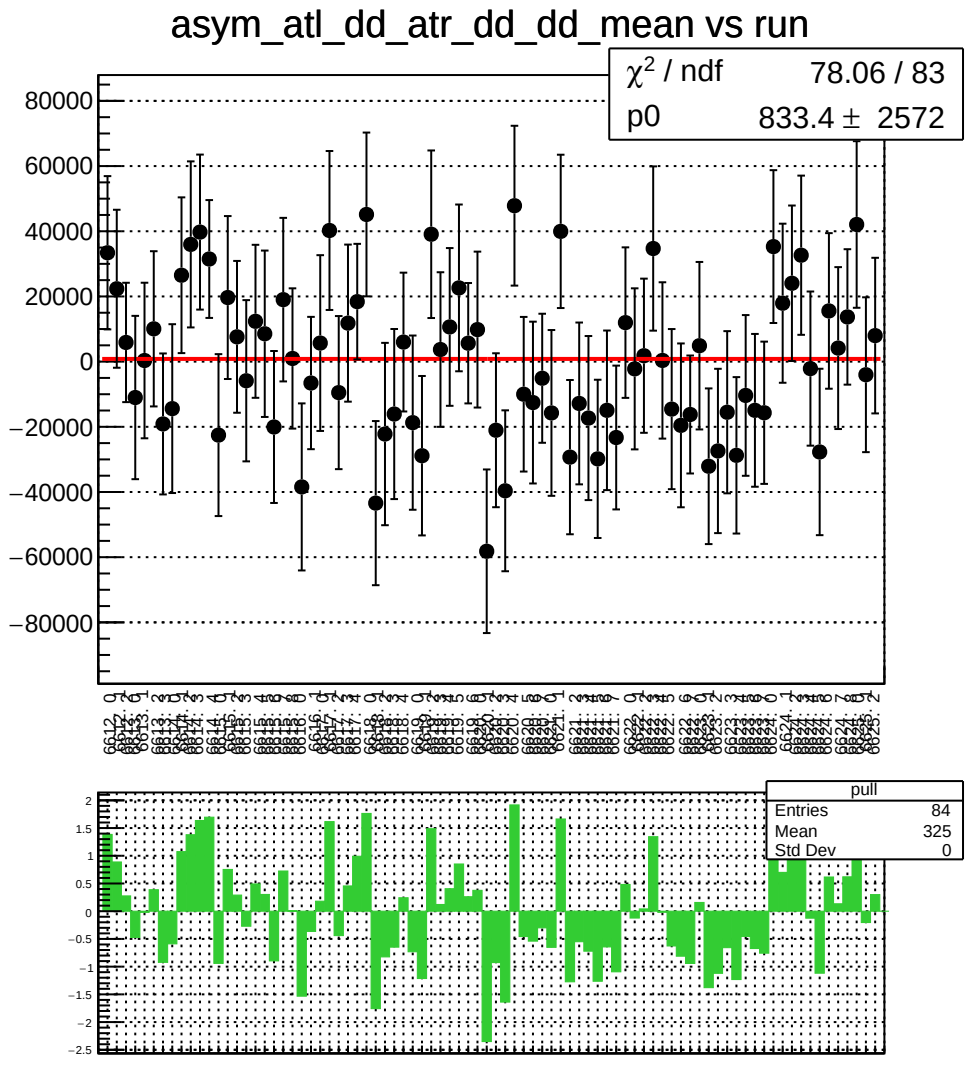

pull1D
Entries 84
Mean −0.009665
Std Dev 1.071

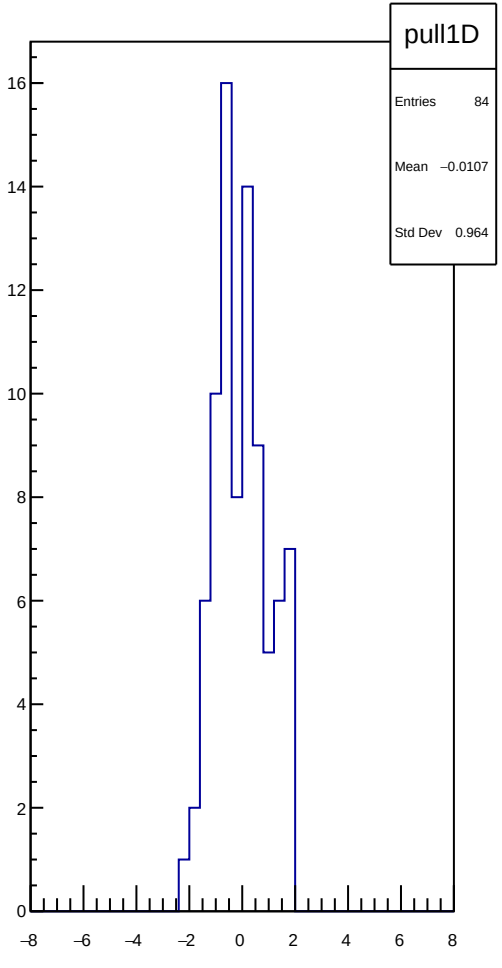

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 208.9 / 83
p0 979.3 ± 0.7664
1040
1030
1020
1010
1000
990
980
970
960
950

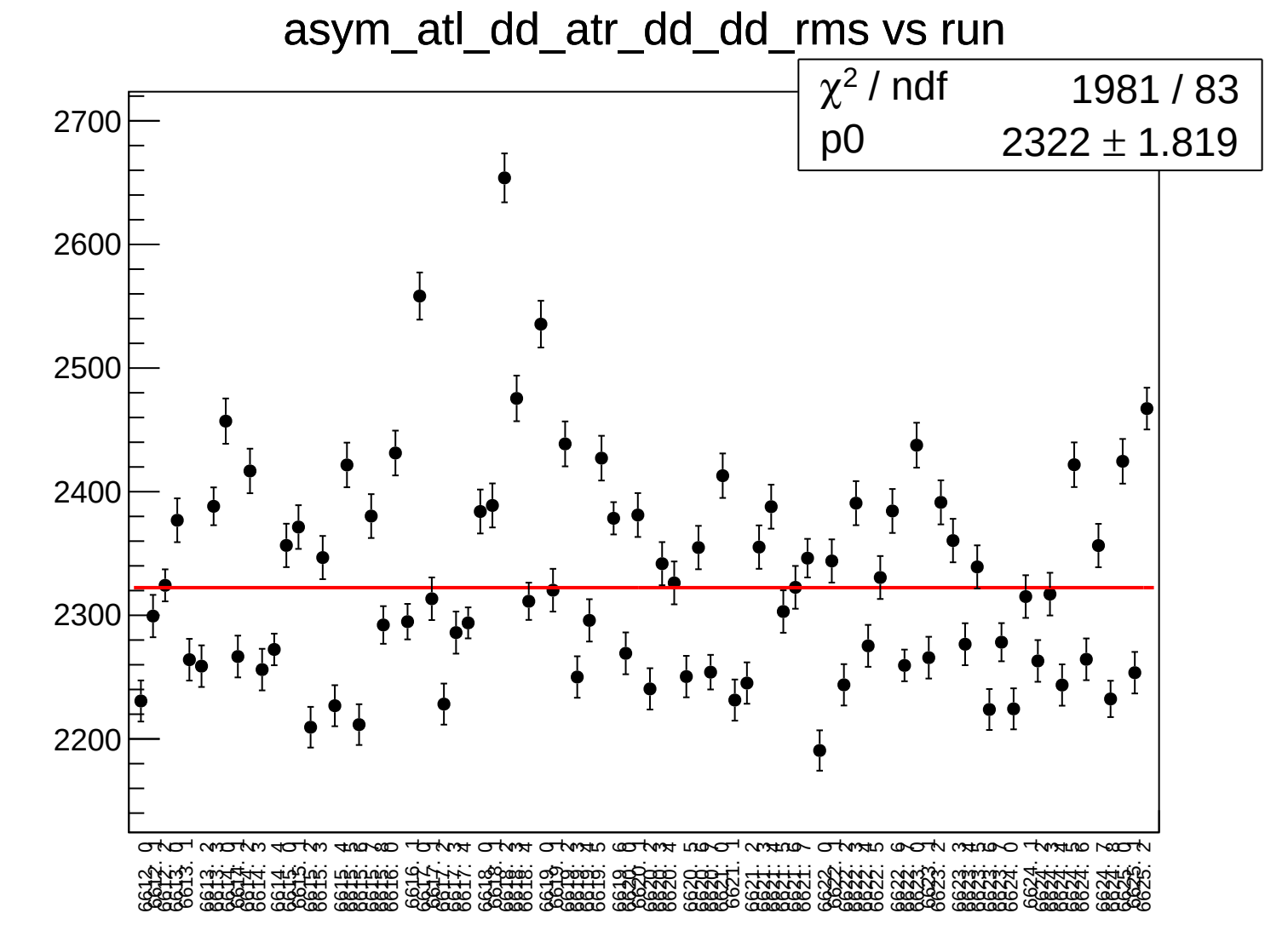

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.47 / 83
p0 −1761 ± 3099
pull
Entries 84
Mean 661
Std Dev 0

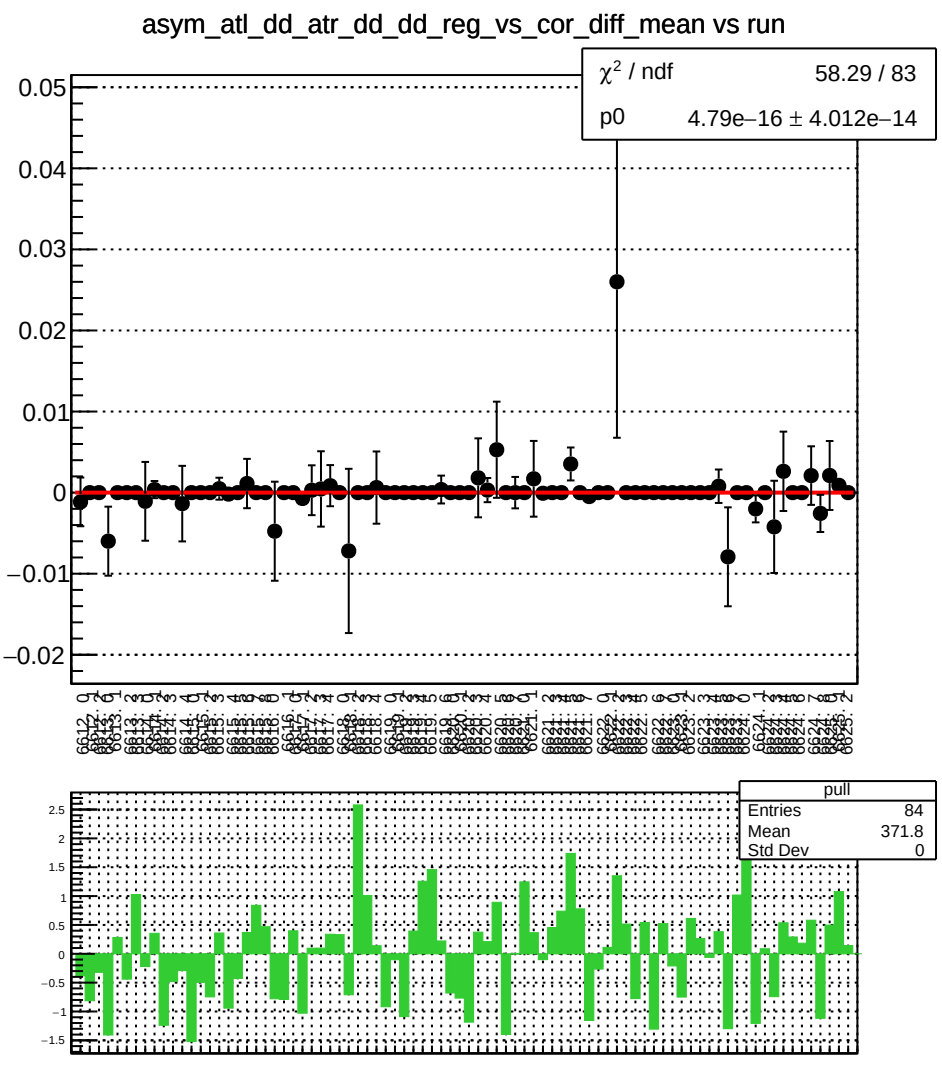

pull1D
Entries 84
Mean 0.004249
Std Dev 0.9909

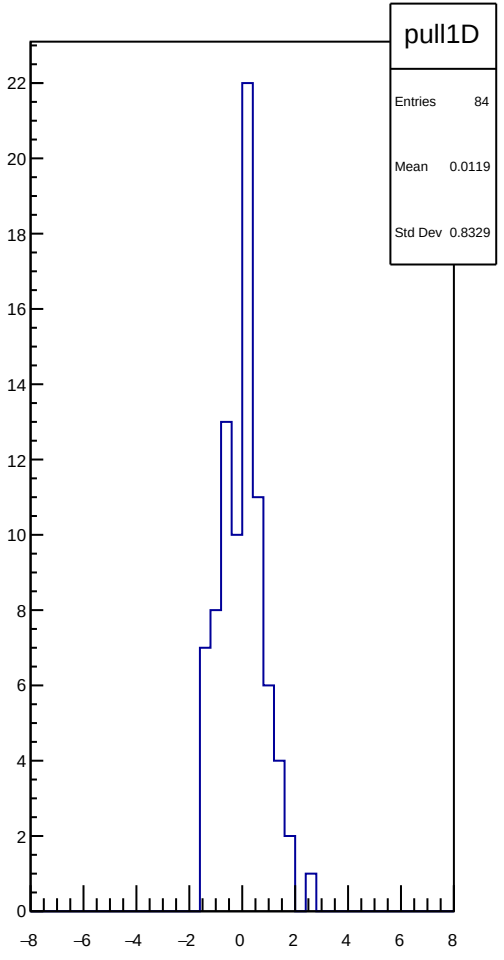

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 794.9 / 83
p0 2799 ± 2.191
3050
3000
2950
2900
2850
2800
2750
2700
2650

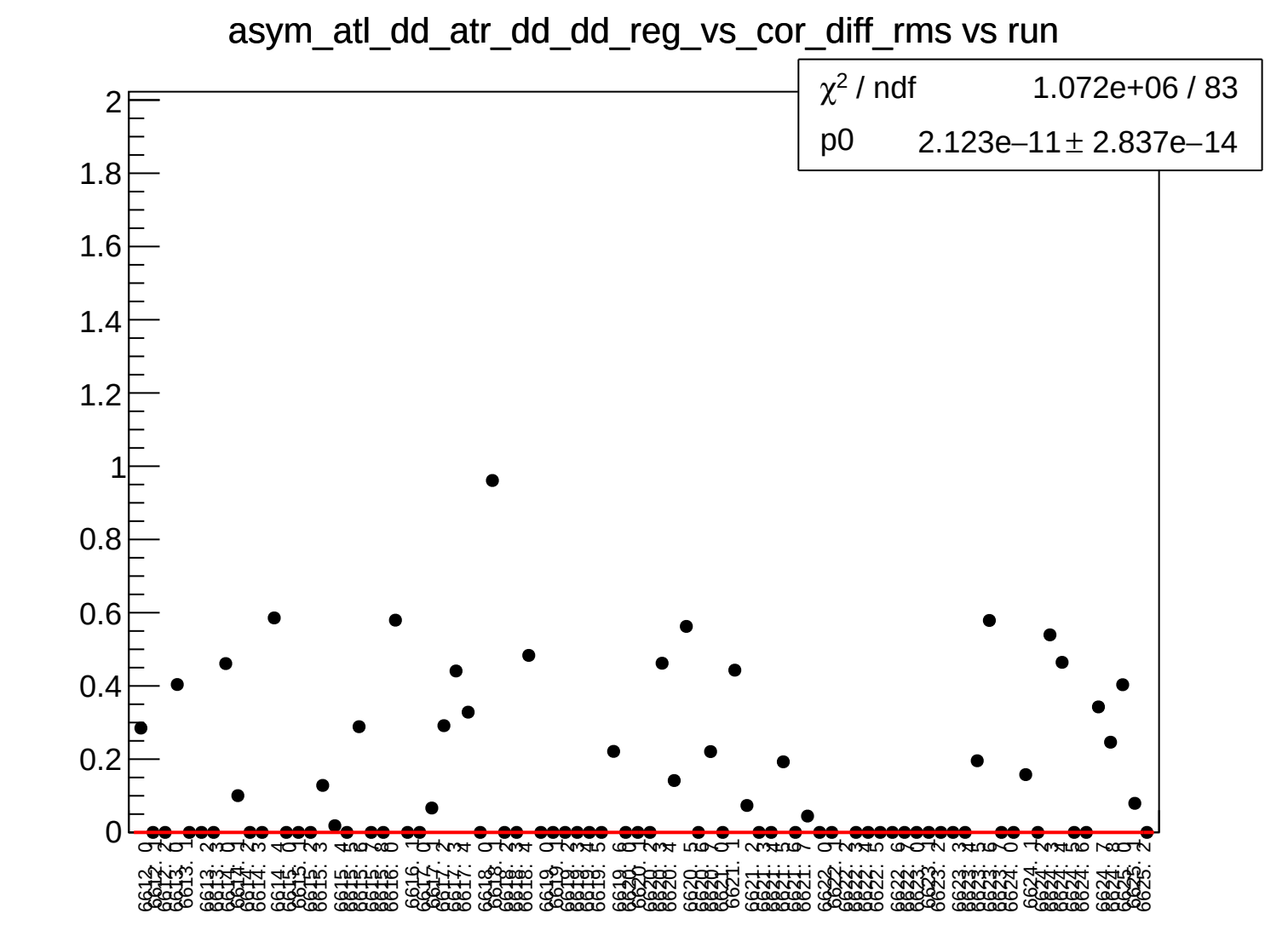

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 78.06 / 83
p0 833.4 ± 2572
pull
Entries 84
Mean 325
Std Dev 0

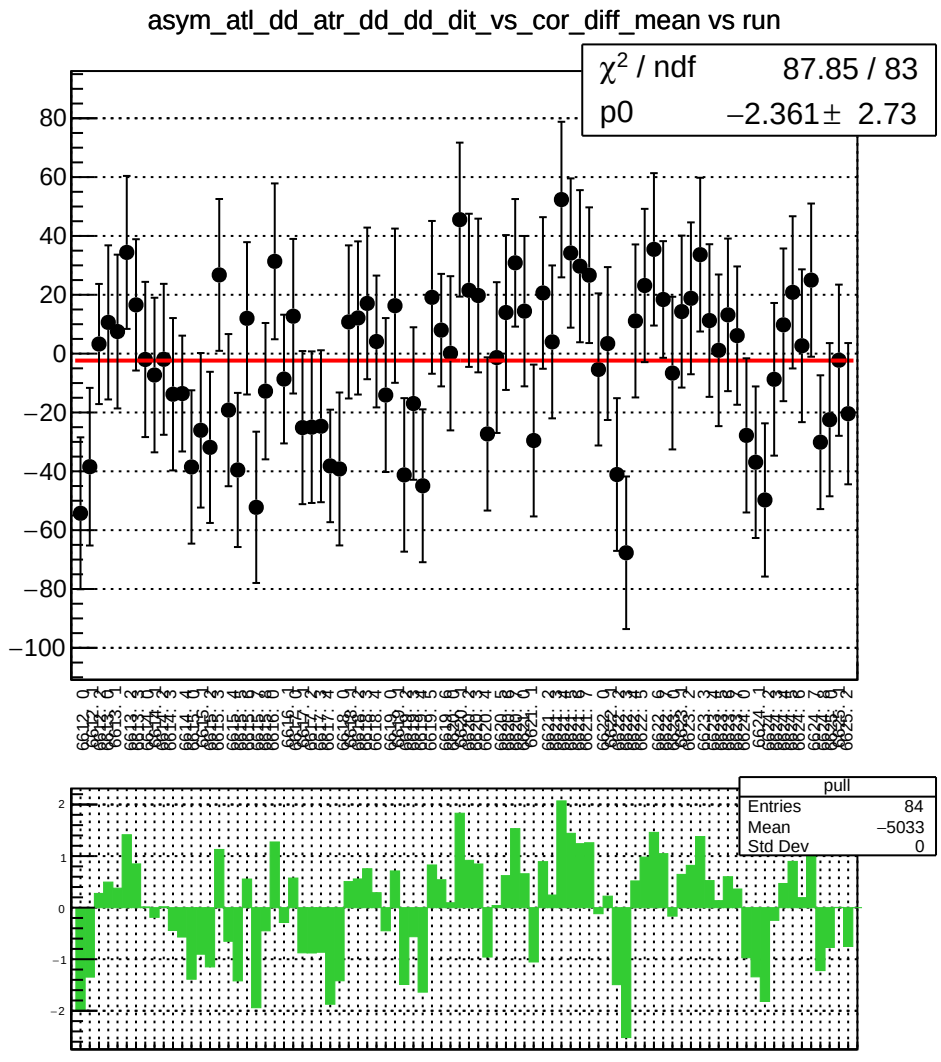

pull1D
Entries 84
Mean −0.0107
Std Dev 0.964

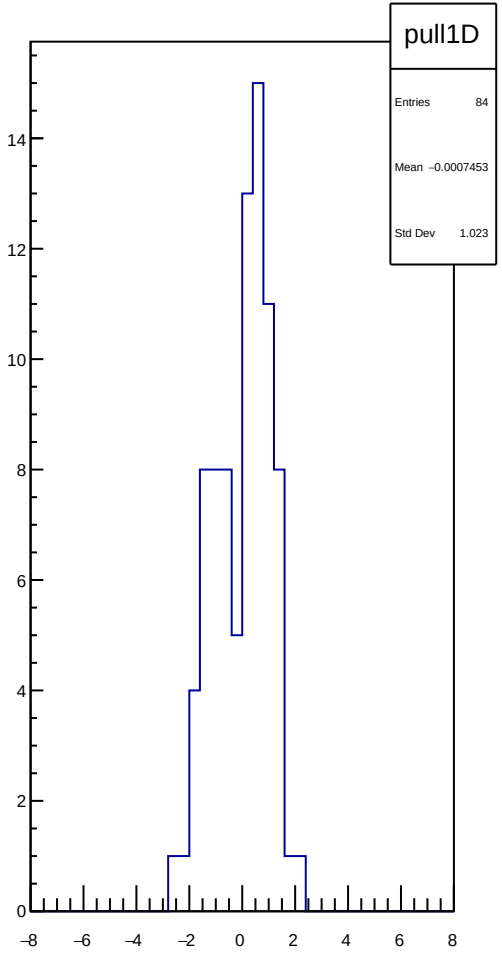

asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 1981 / 83
p0 2322 ± 1.819
2700
2600
2500
2400
2300
2200

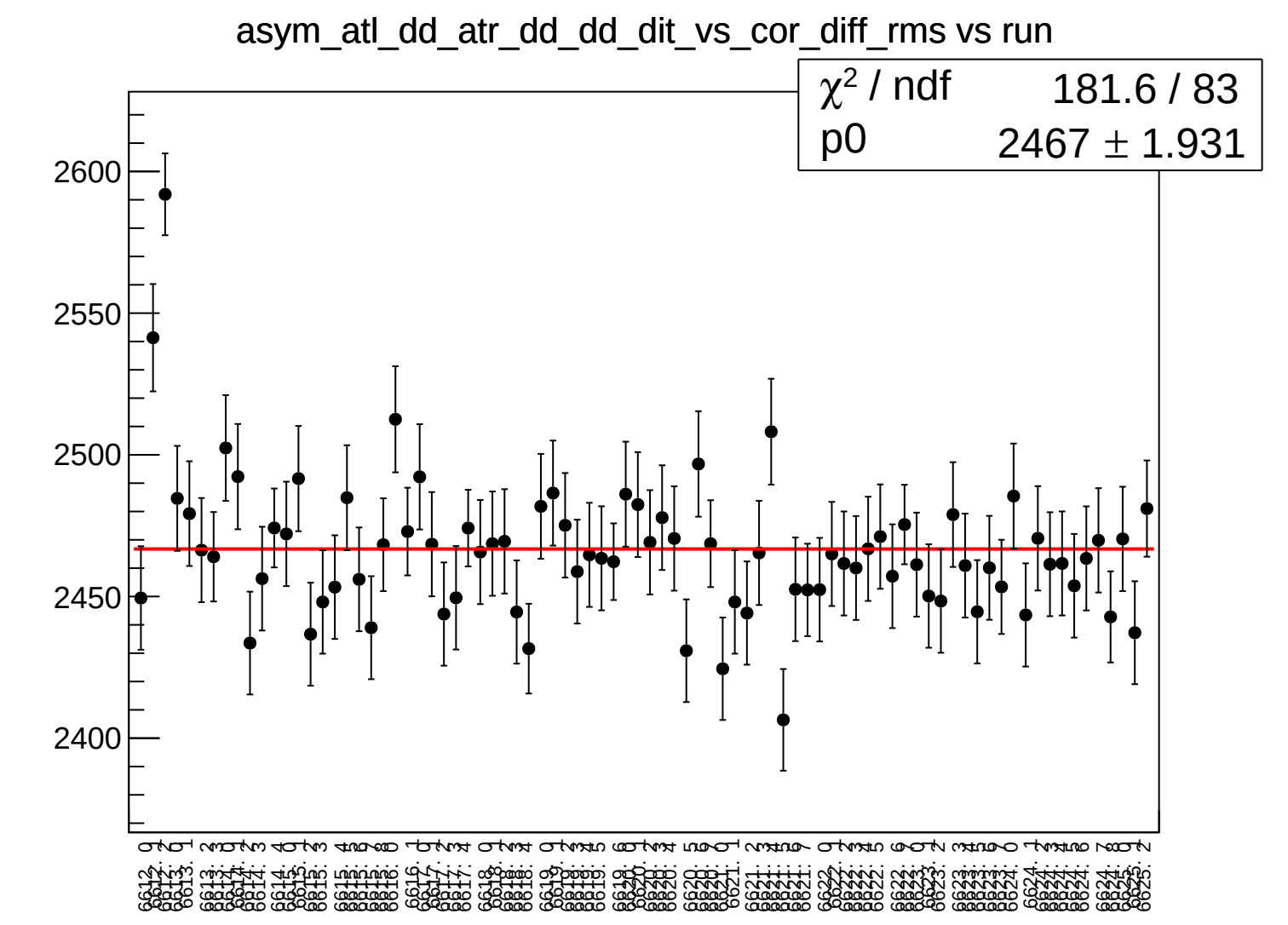

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 58.29 / 83
p0 4.79e−16 ± 4.012e−14
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 371.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

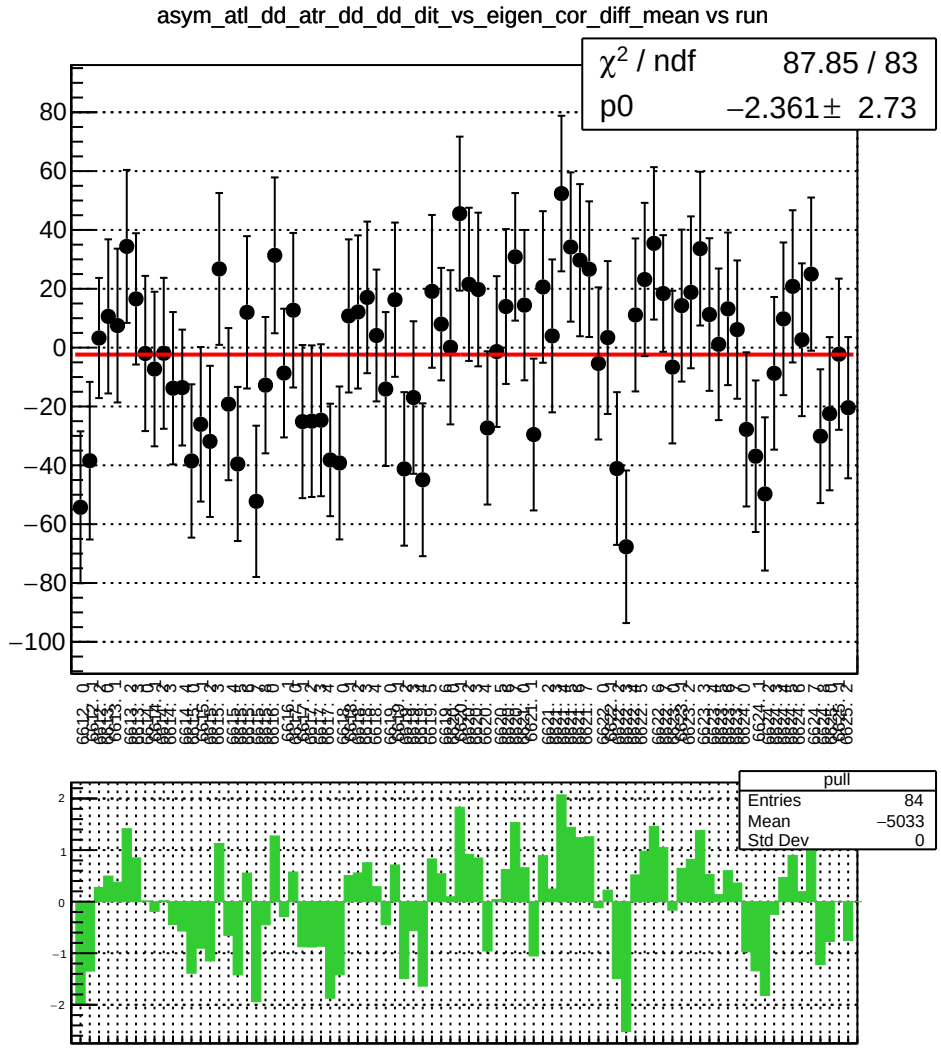

pull1D
Entries 84
Mean 0.0119
Std Dev 0.8329
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

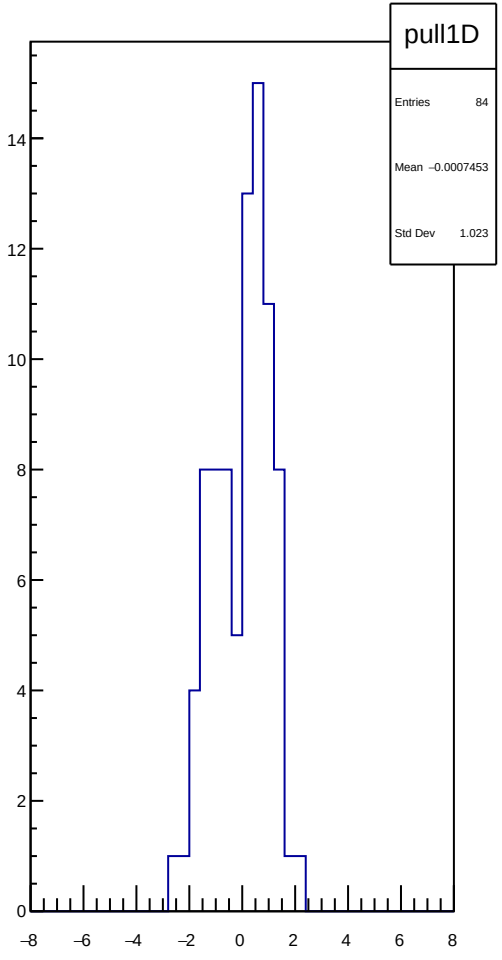

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.072e+06 / 83
p0 2.123e−11 ± 2.837e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

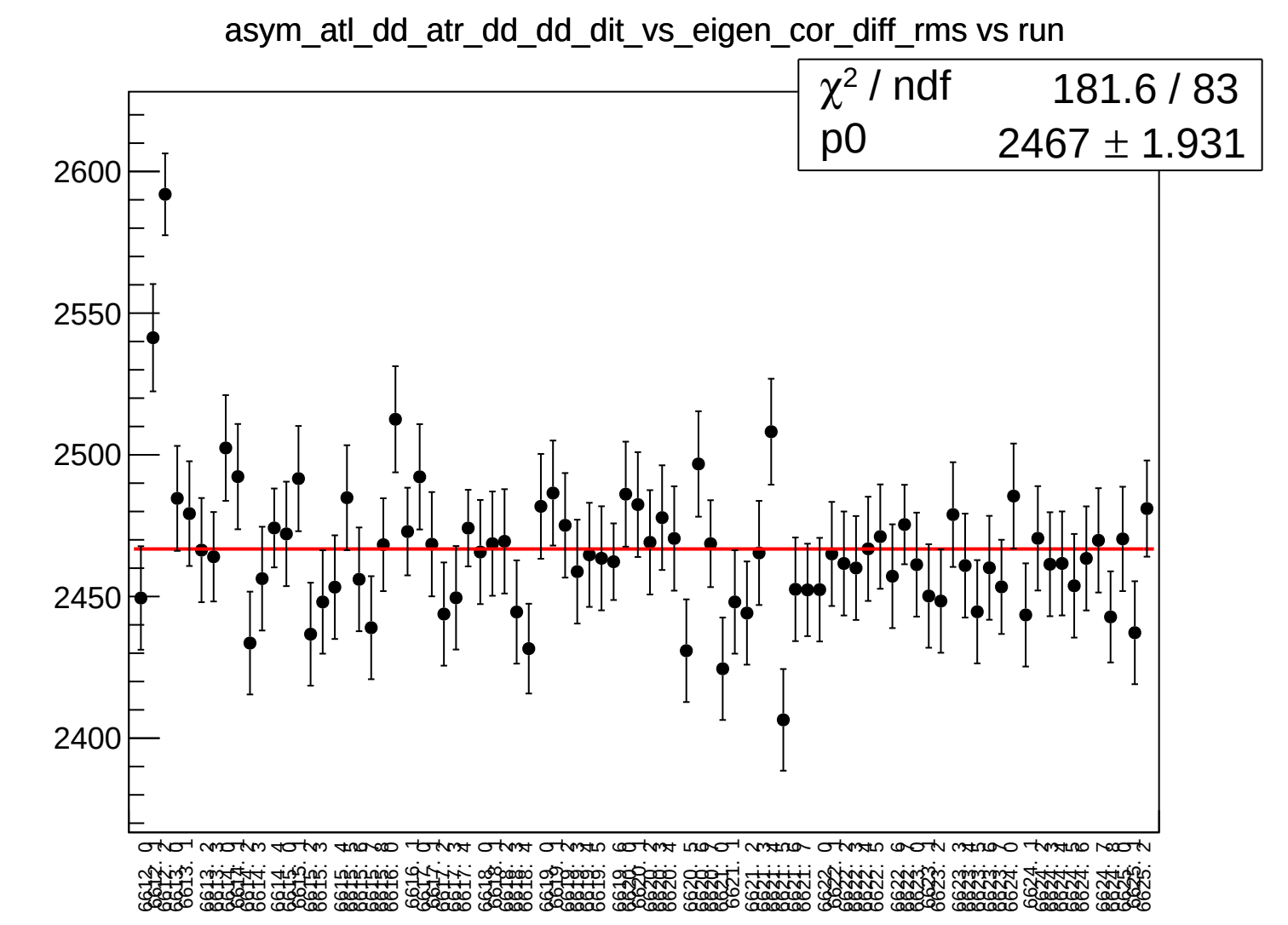

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.85 / 83
p0 −2.361± 2.73
pull
Entries 84
Mean −5033
Std Dev 0

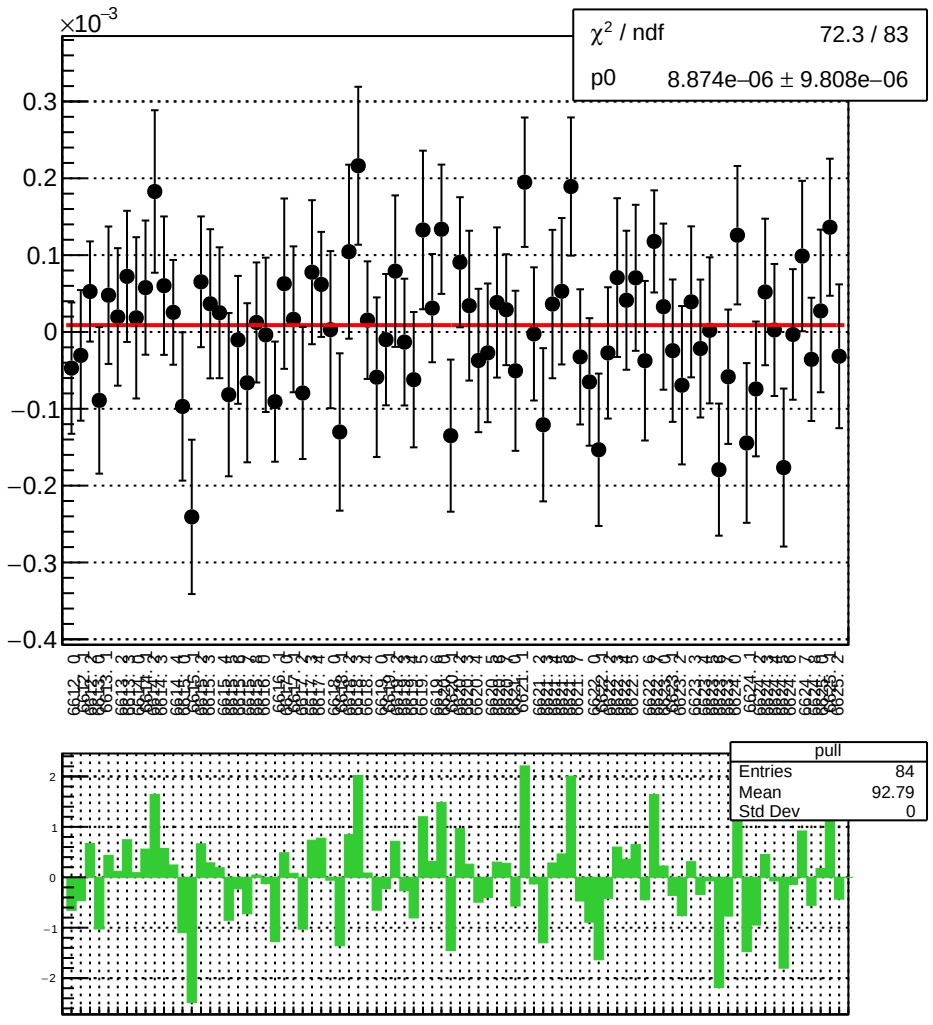

pull1D
Entries 84
Mean −0.0007453
Std Dev 1.023

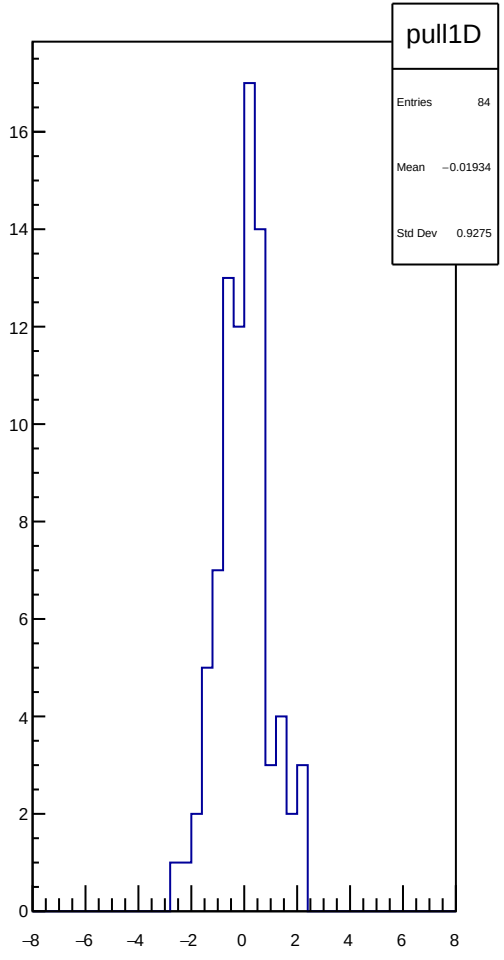

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 181.6 / 83
p0 2467 ± 1.931
2600
2550
2500
2450
2400

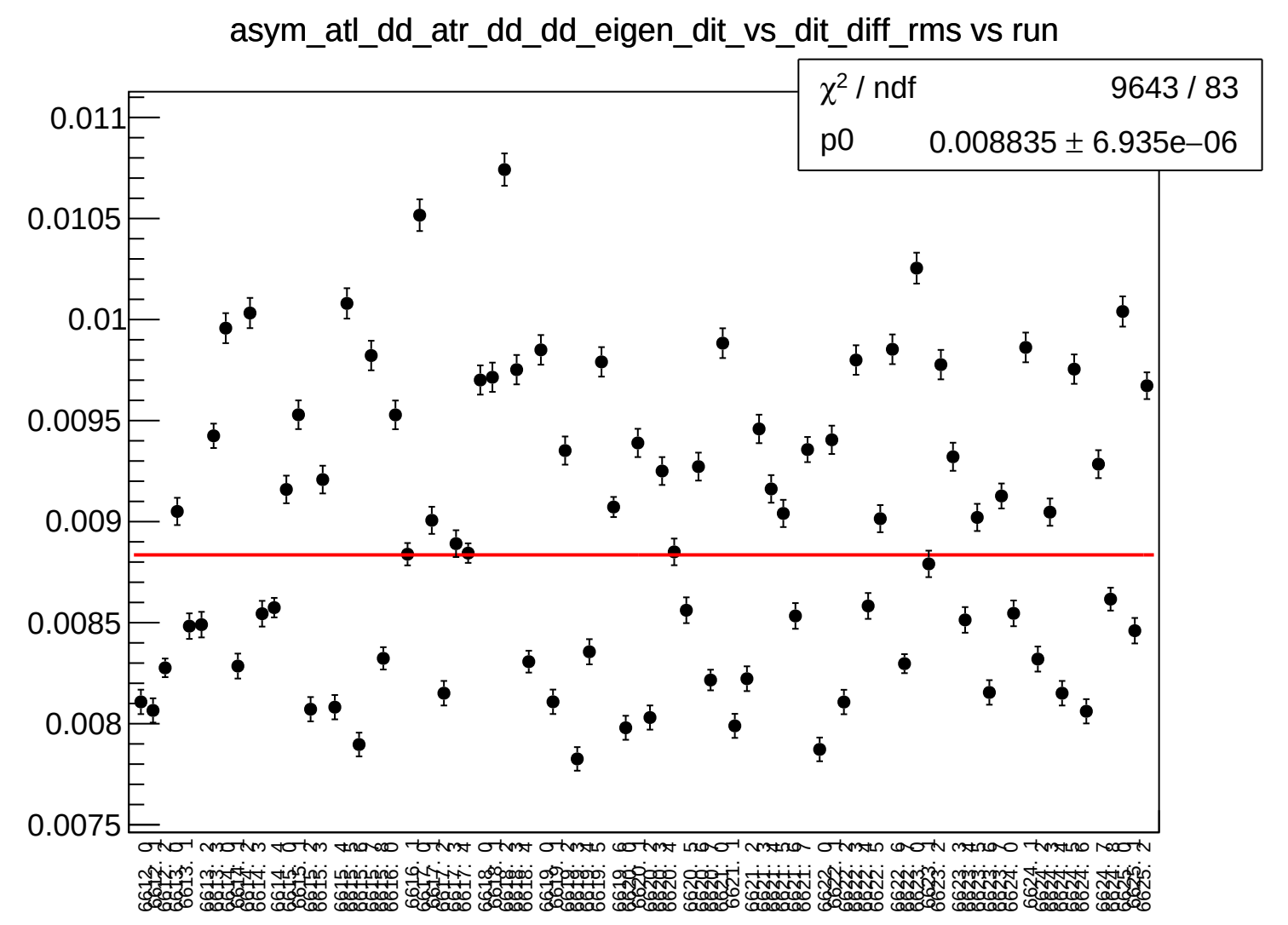

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.85 / 83
p0 −2.361 ± 2.73
pull
Entries 84
Mean −5033
Std Dev 0

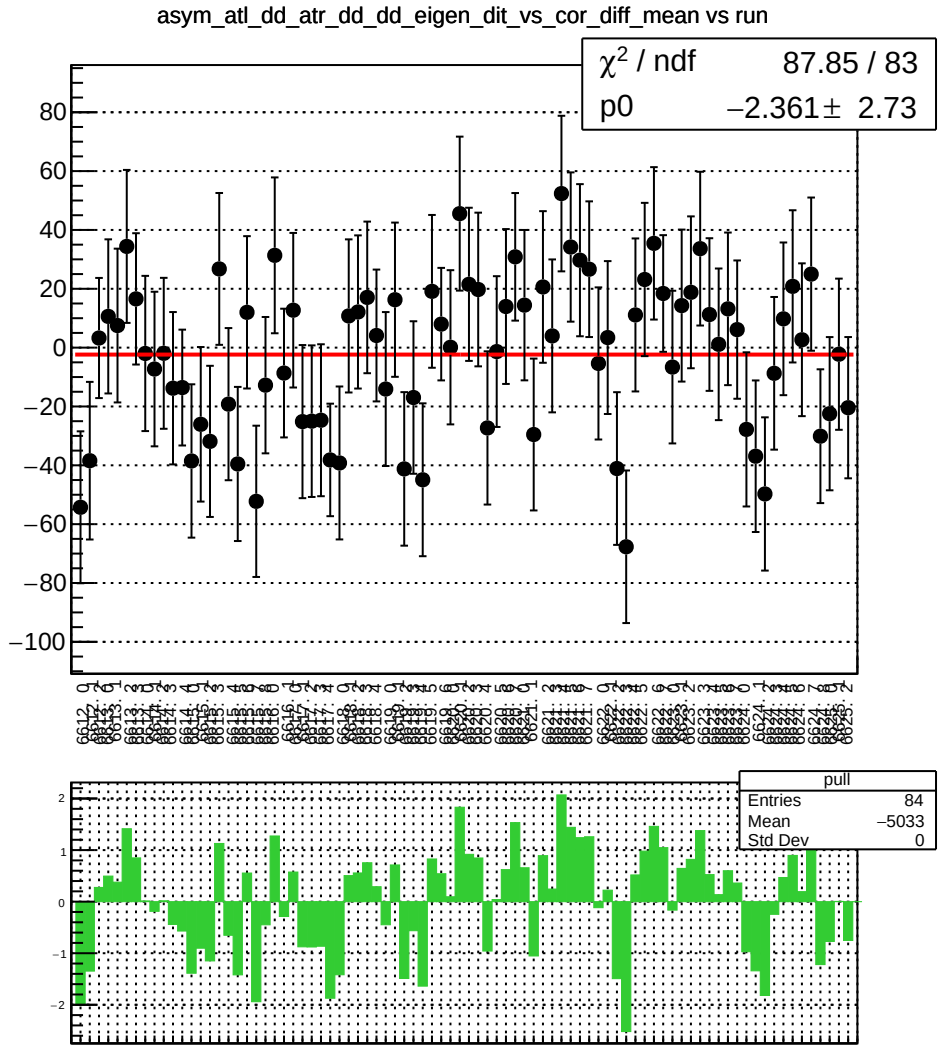

pull1D
Entries 84
Mean −0.0007453
Std Dev 1.023

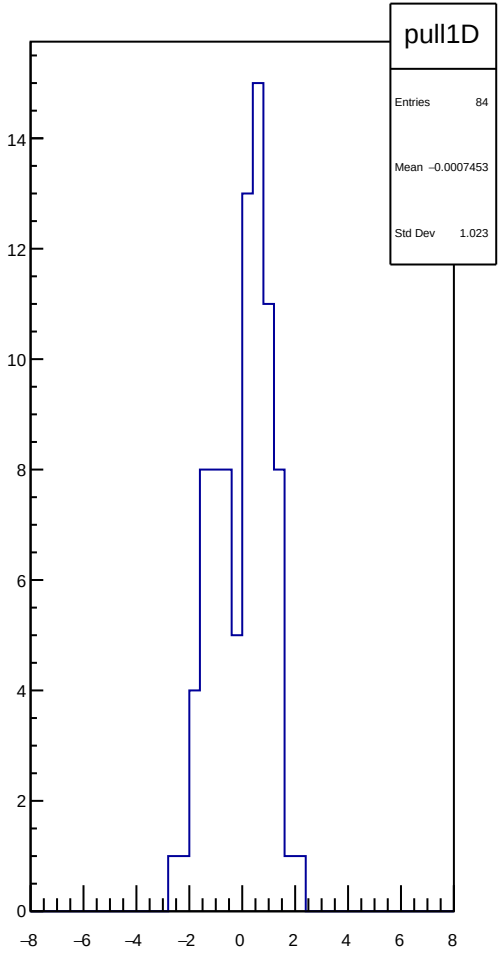

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 181.6 / 83
p0 2467 ± 1.931
2600
2550
2500
2450
2400

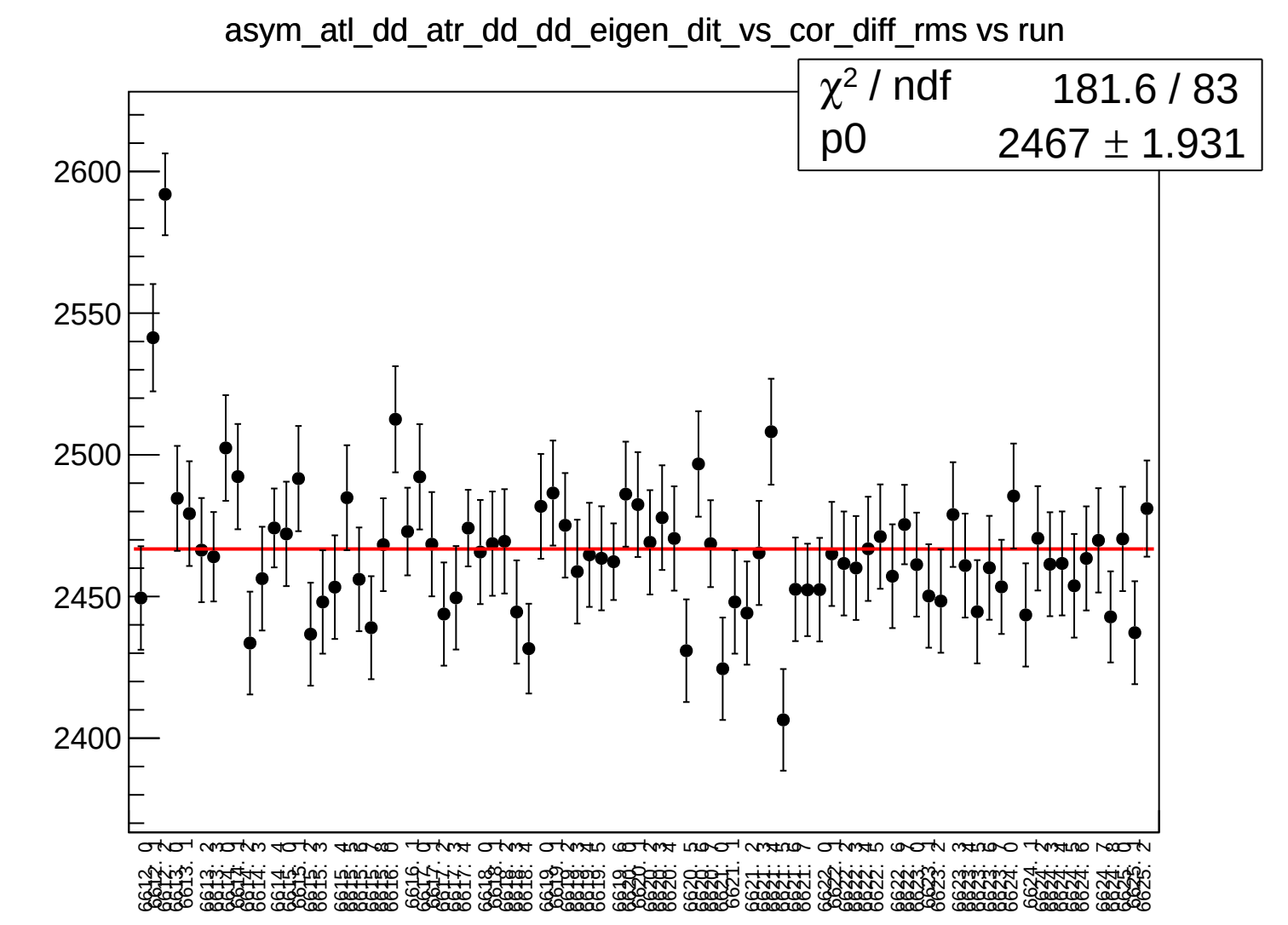

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.3 / 83
p0 8.874e−06 ± 9.808e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 84
Mean 92.79
Std Dev 0
2
1
0
−1
−2

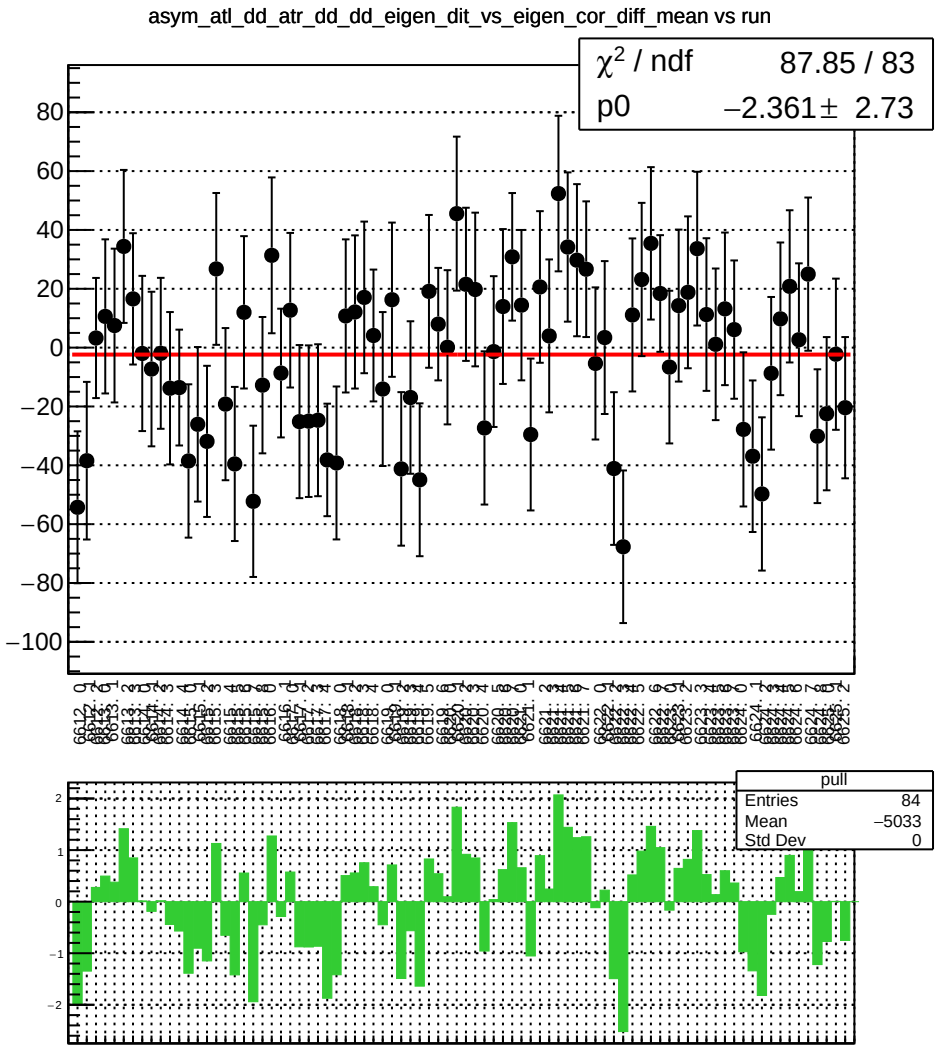

pull1D
Entries 84
Mean −0.01934
Std Dev 0.9275
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

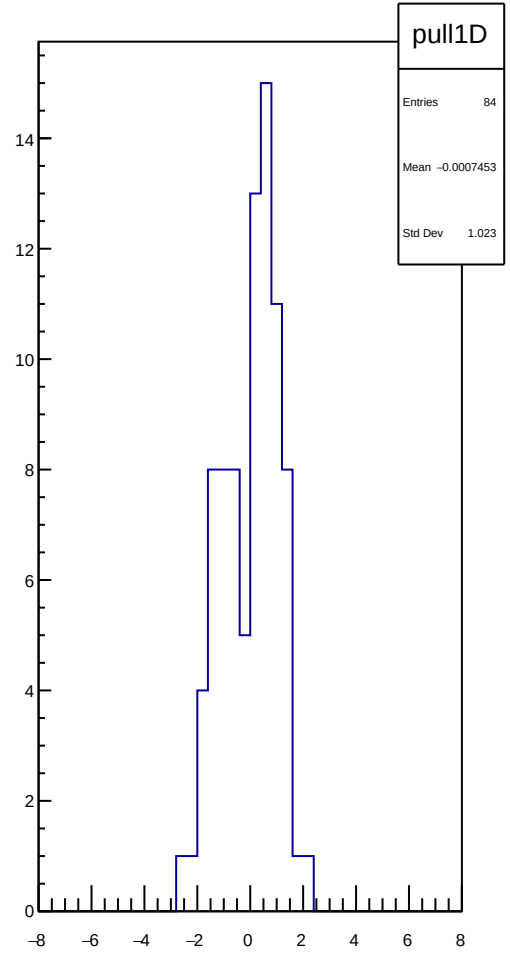

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9643 / 83
p0 0.008835 ± 6.935e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075

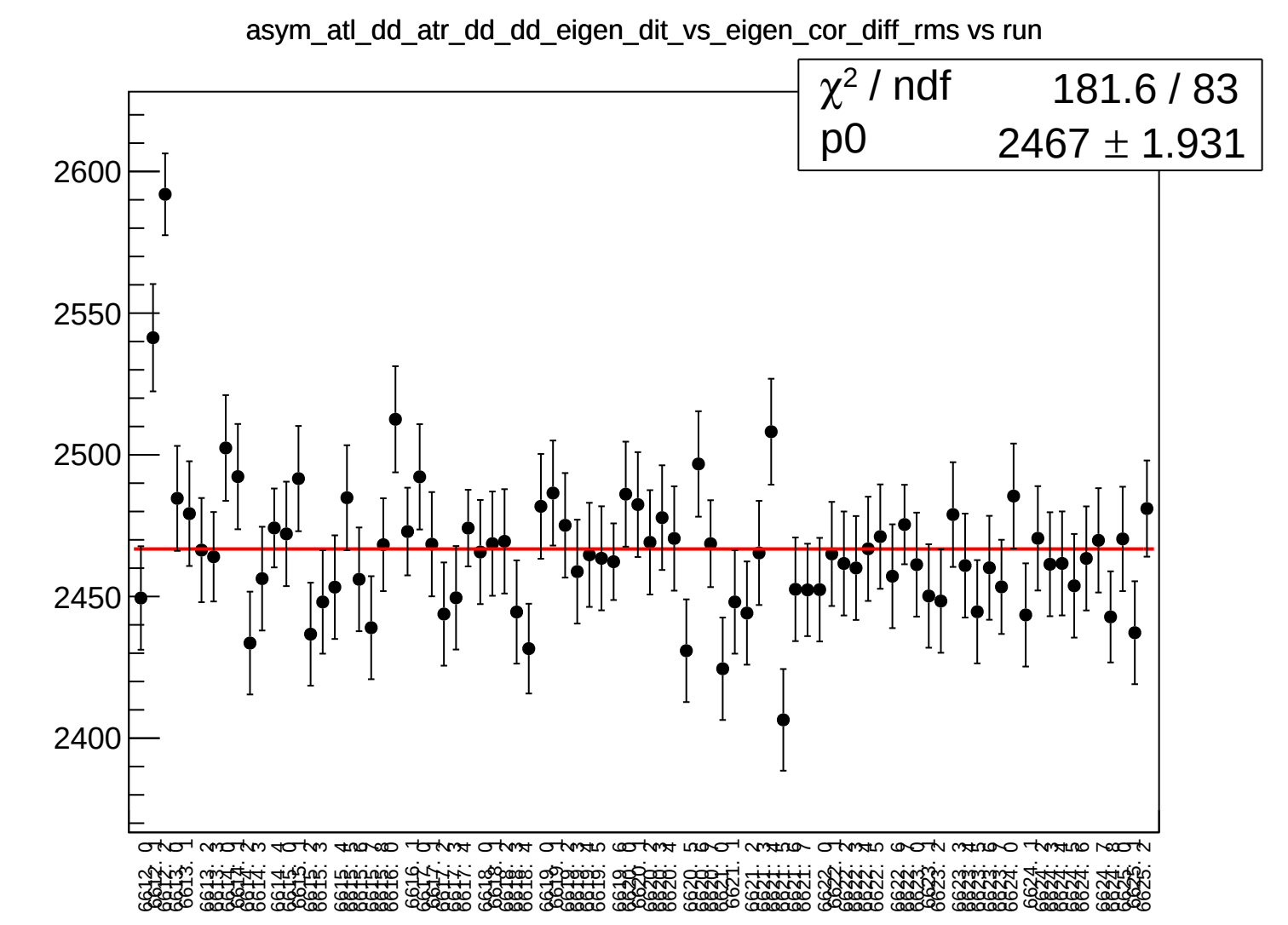

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.85 / 83
p0 −2.361± 2.73
pull
Entries 84
Mean −5033
Std Dev 0

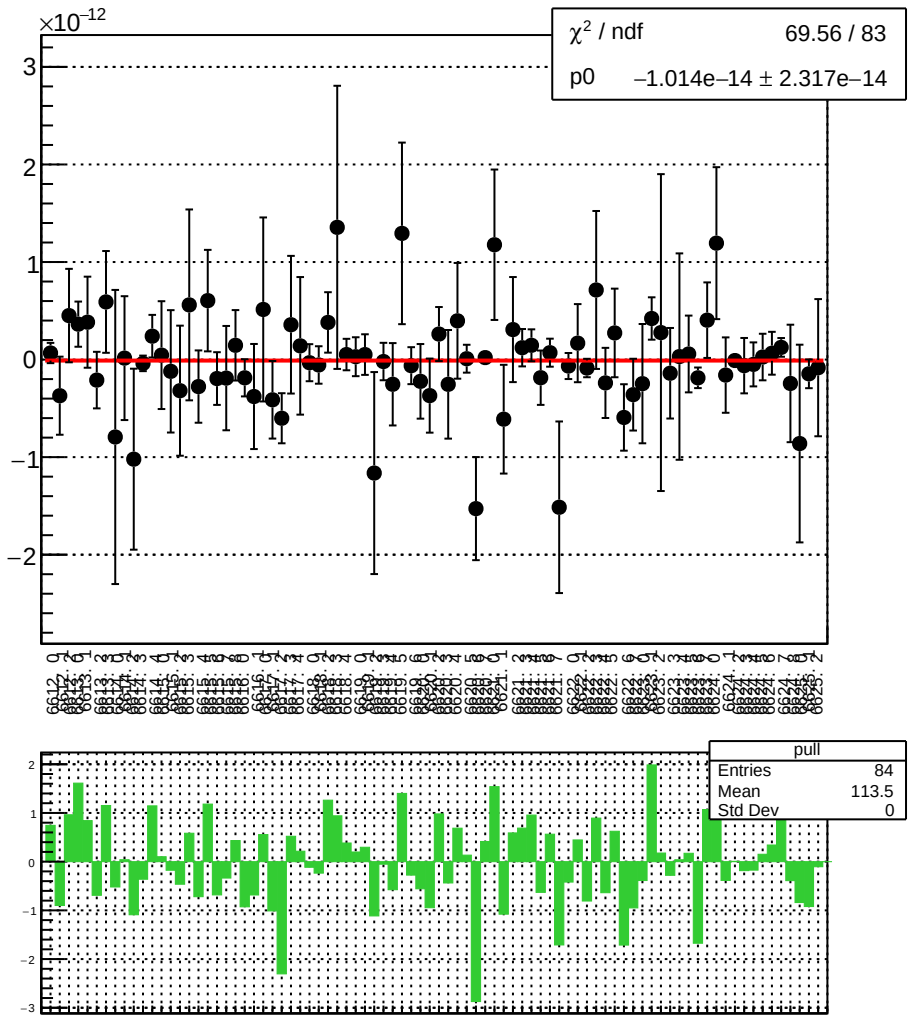

pull1D
Entries 84
Mean −0.0007453
Std Dev 1.023

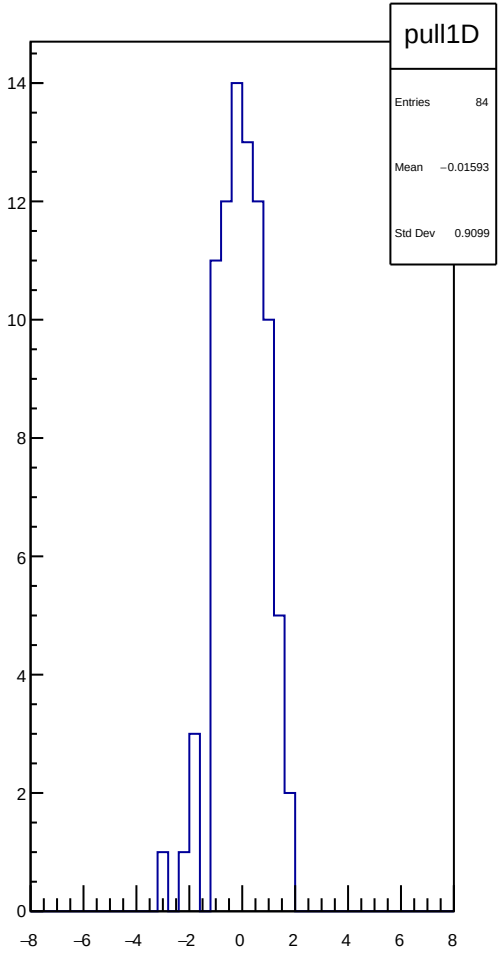

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 181.6 / 83
p0 2467 ± 1.931
2600
2550
2500
2450
2400

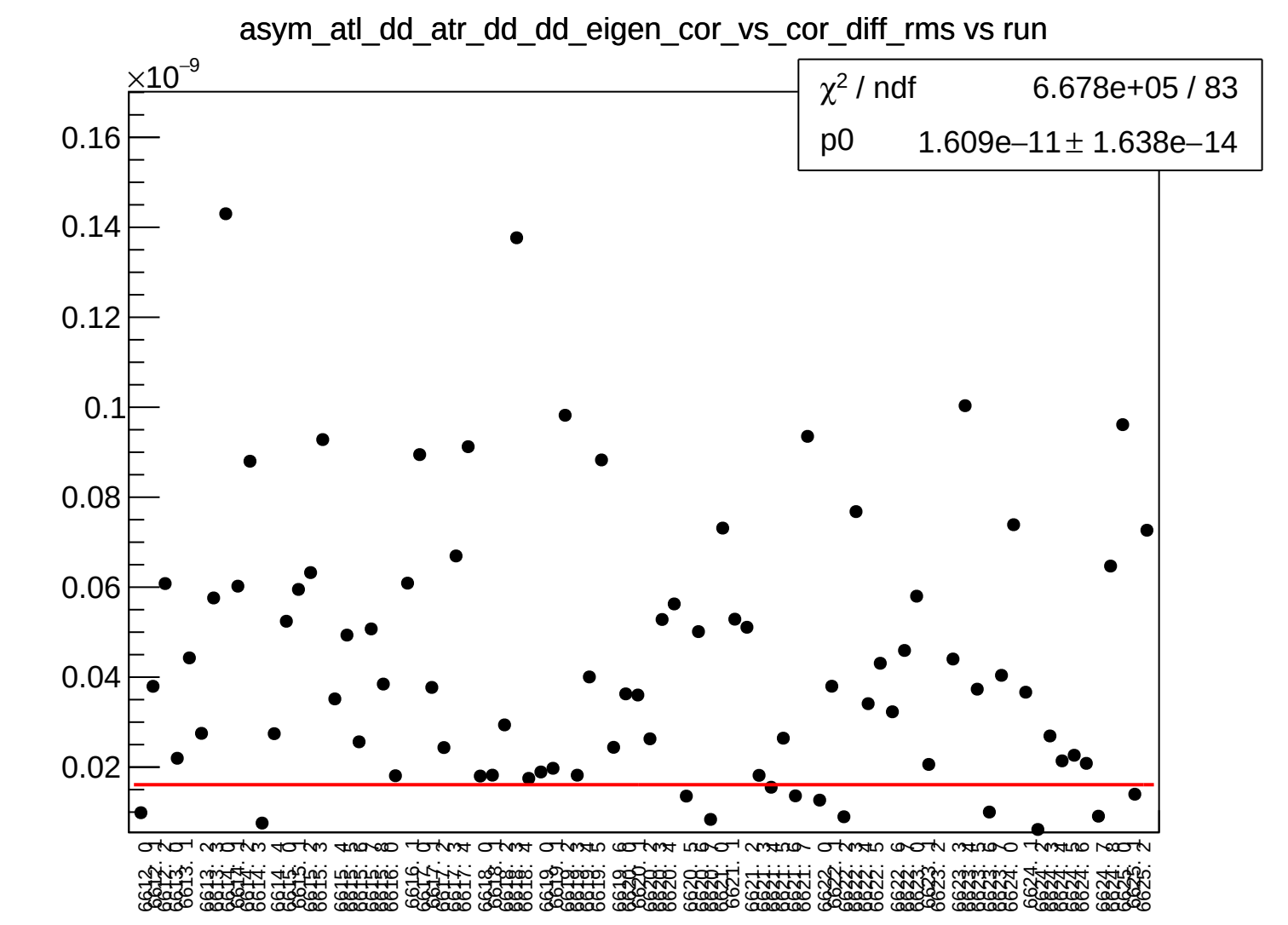

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.85 / 83
p0 −2.361± 2.73
pull
Entries 84
Mean −5033
Std Dev 0

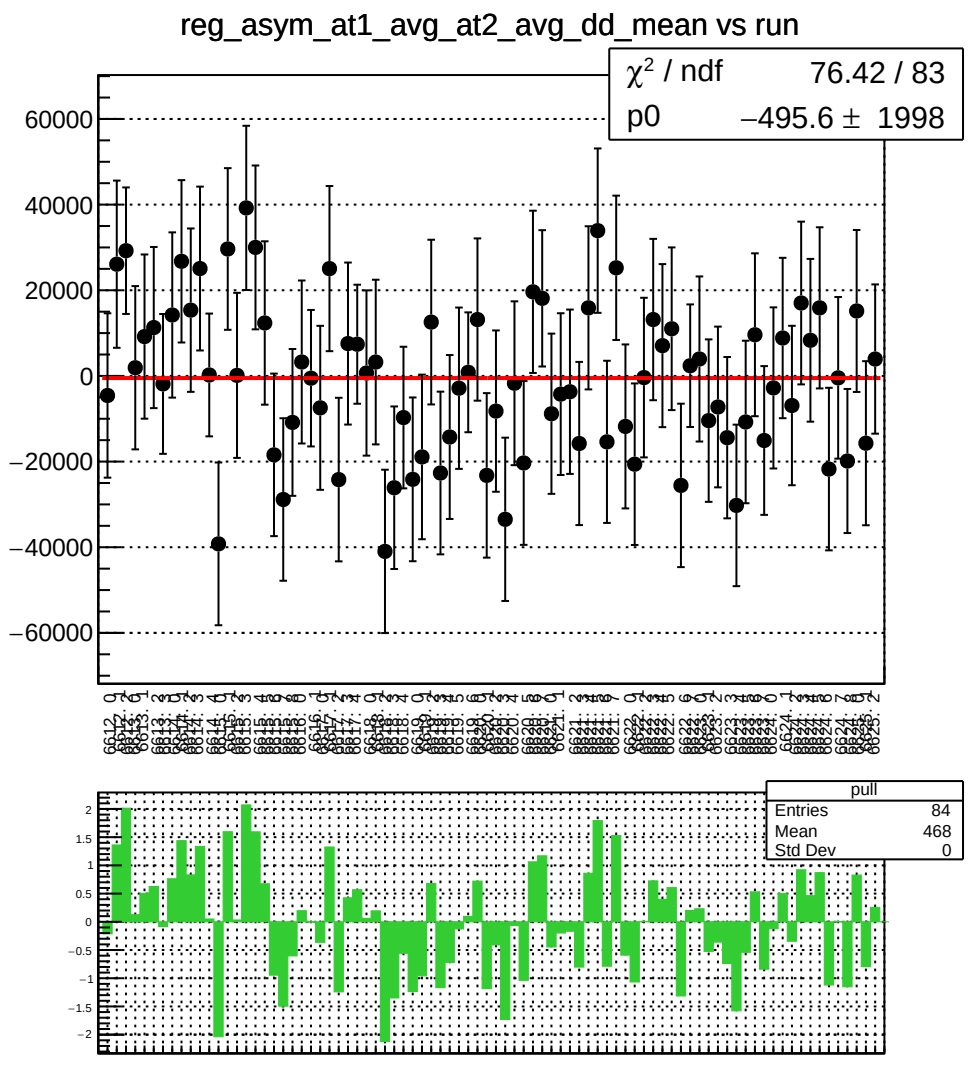

pull1D
Entries 84
Mean −0.0007453
Std Dev 1.023

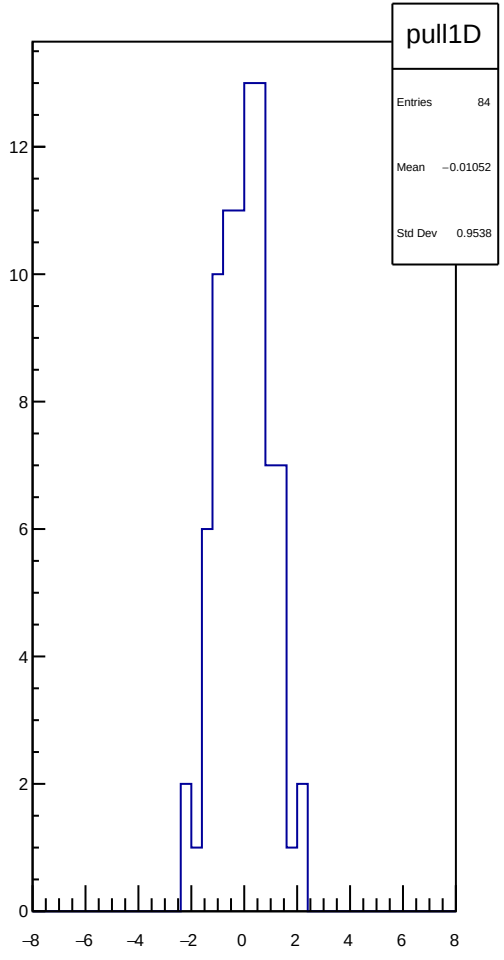

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 181.6 / 83
p0 2467 ± 1.931
2600
2550
2500
2450
2400

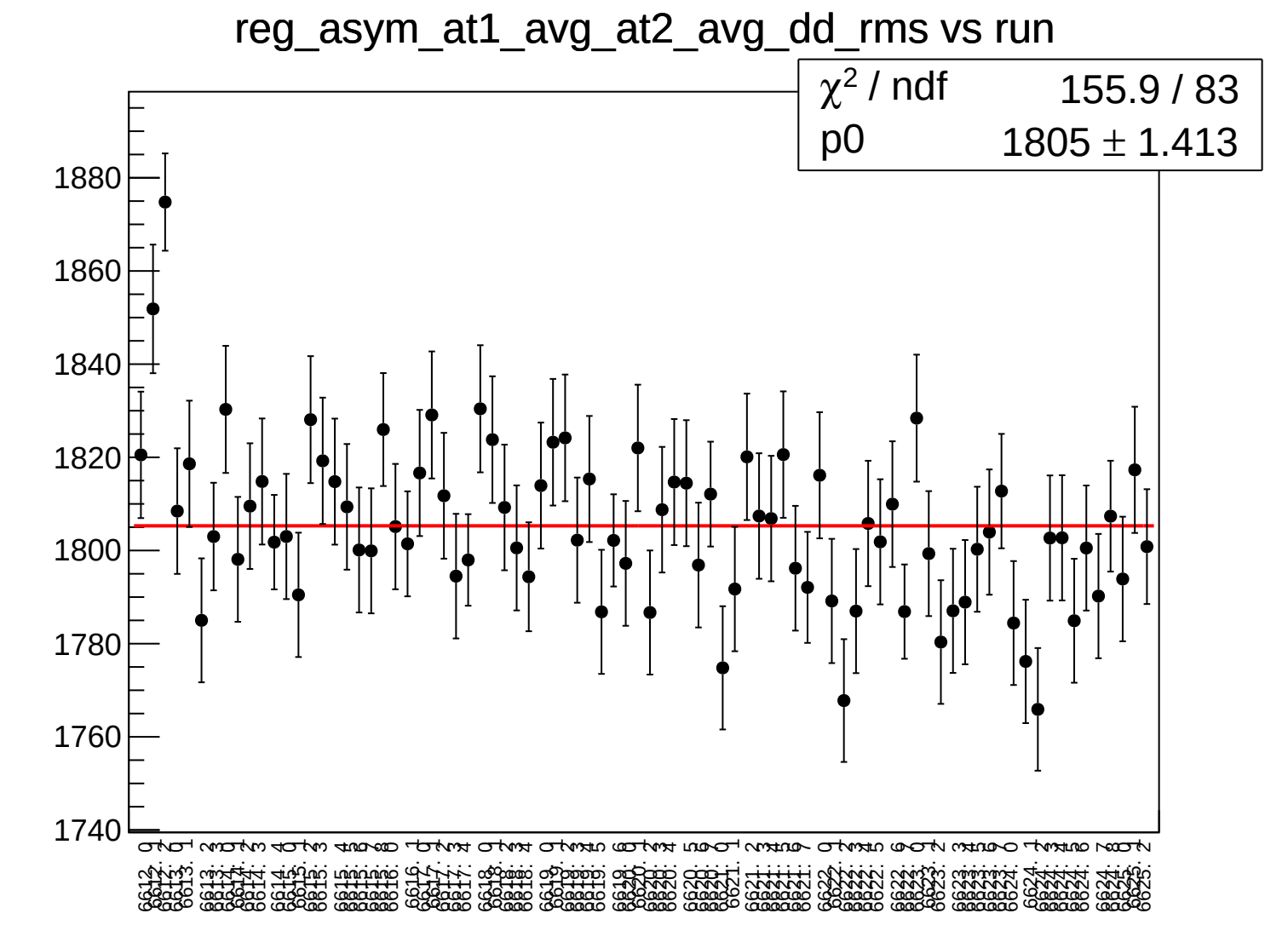

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.56 / 83
p0 −1.014e−14 ± 2.317e−14
pull
Entries 84
Mean 113.5
Std Dev 0

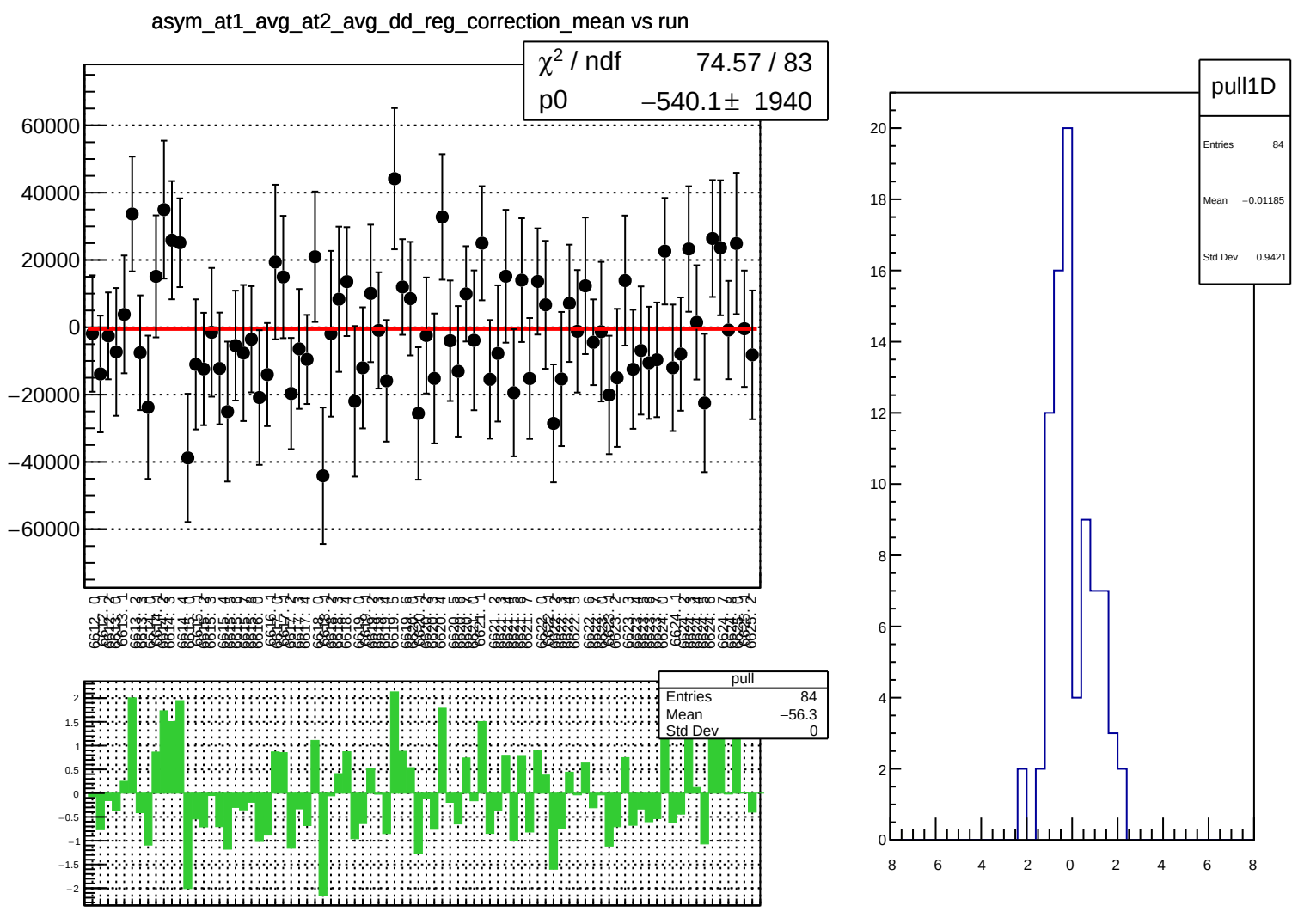

pull1D
Entries 84
Mean −0.01593
Std Dev 0.9099

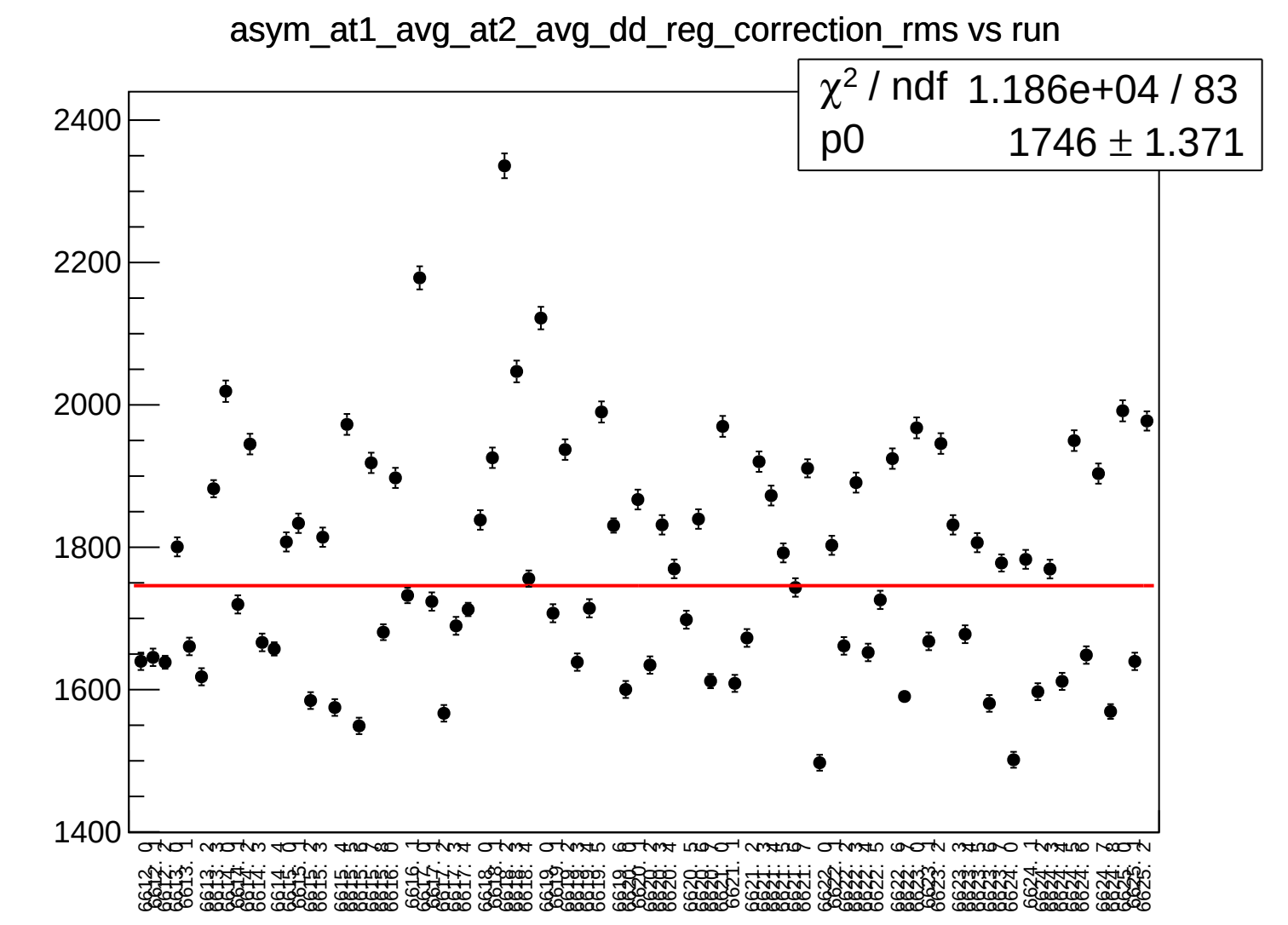

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.678e+05 / 83
p0 1.609e−11 ± 1.638e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

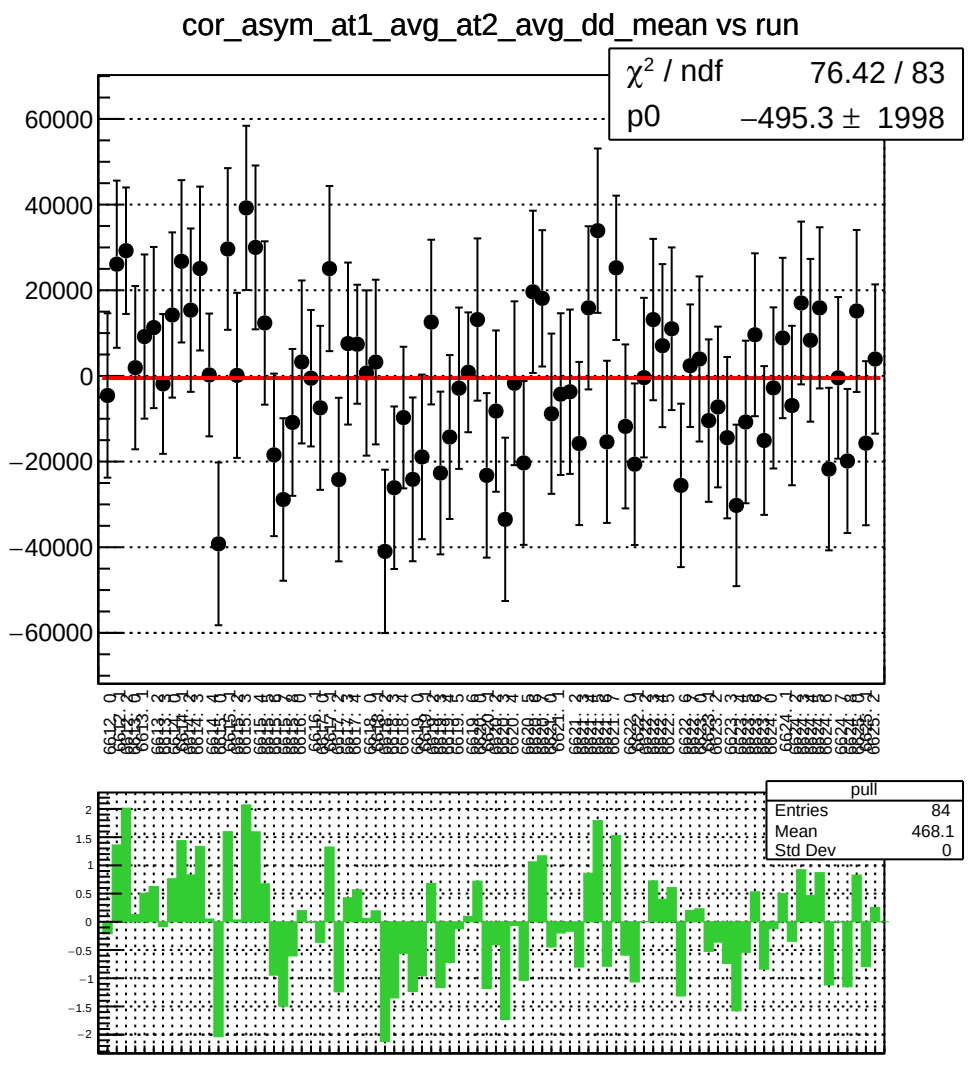

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 76.42 / 83
p0 −495.6 ± 1998
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 468
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

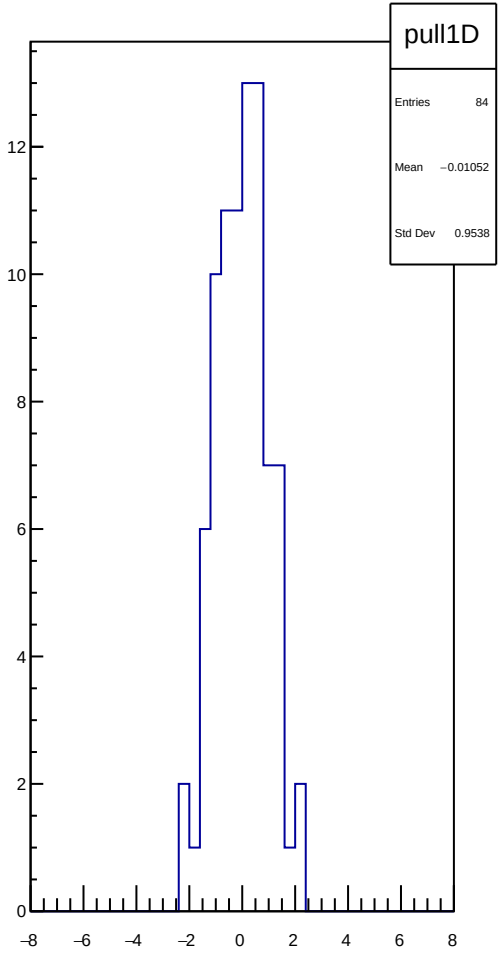

pull1D
Entries 84
Mean −0.01052
Std Dev 0.9538
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

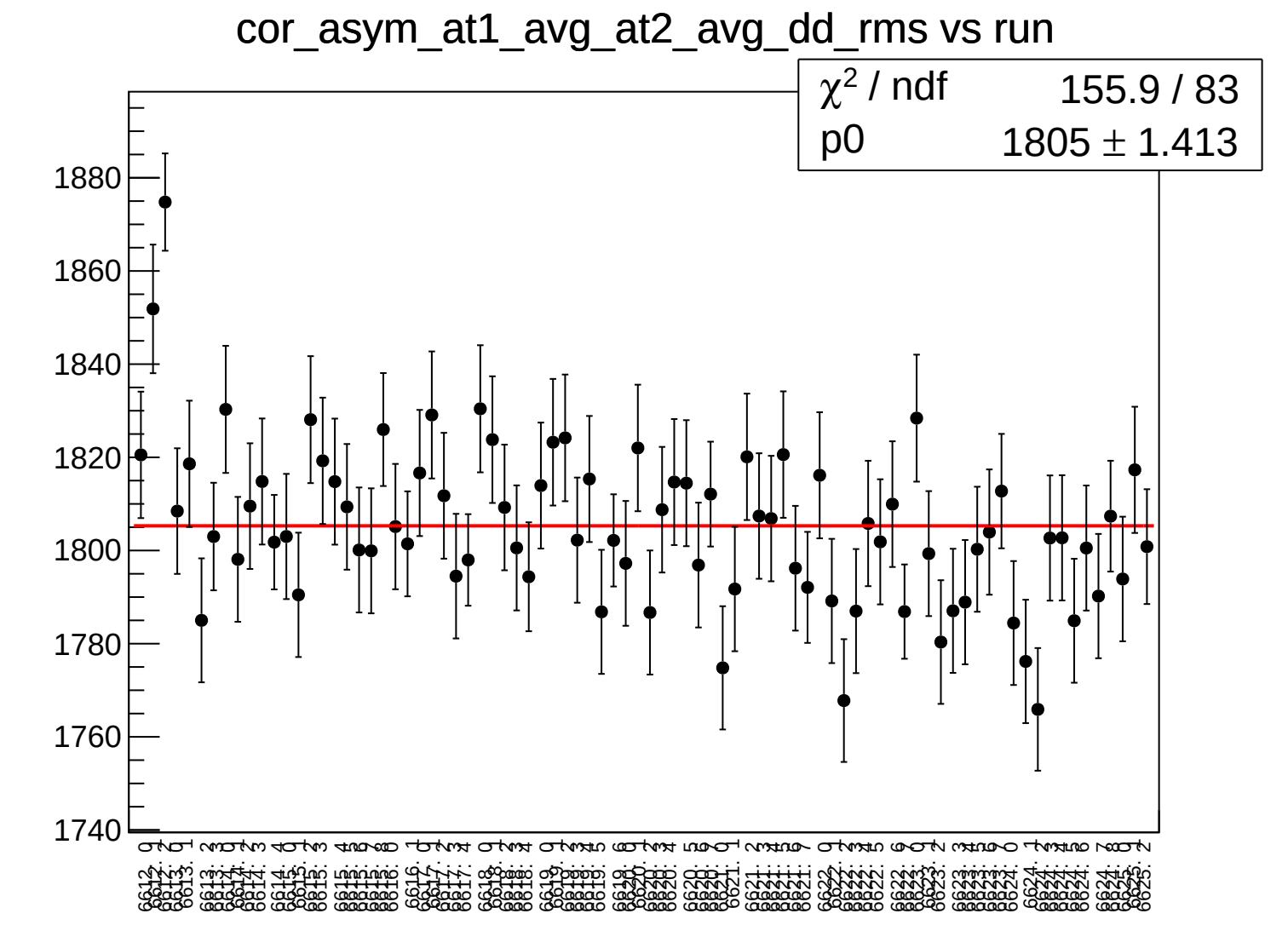

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 155.9 / 83
p0 1805 ± 1.413
1880
1860
1840
1820
1800
1780
1760
1740

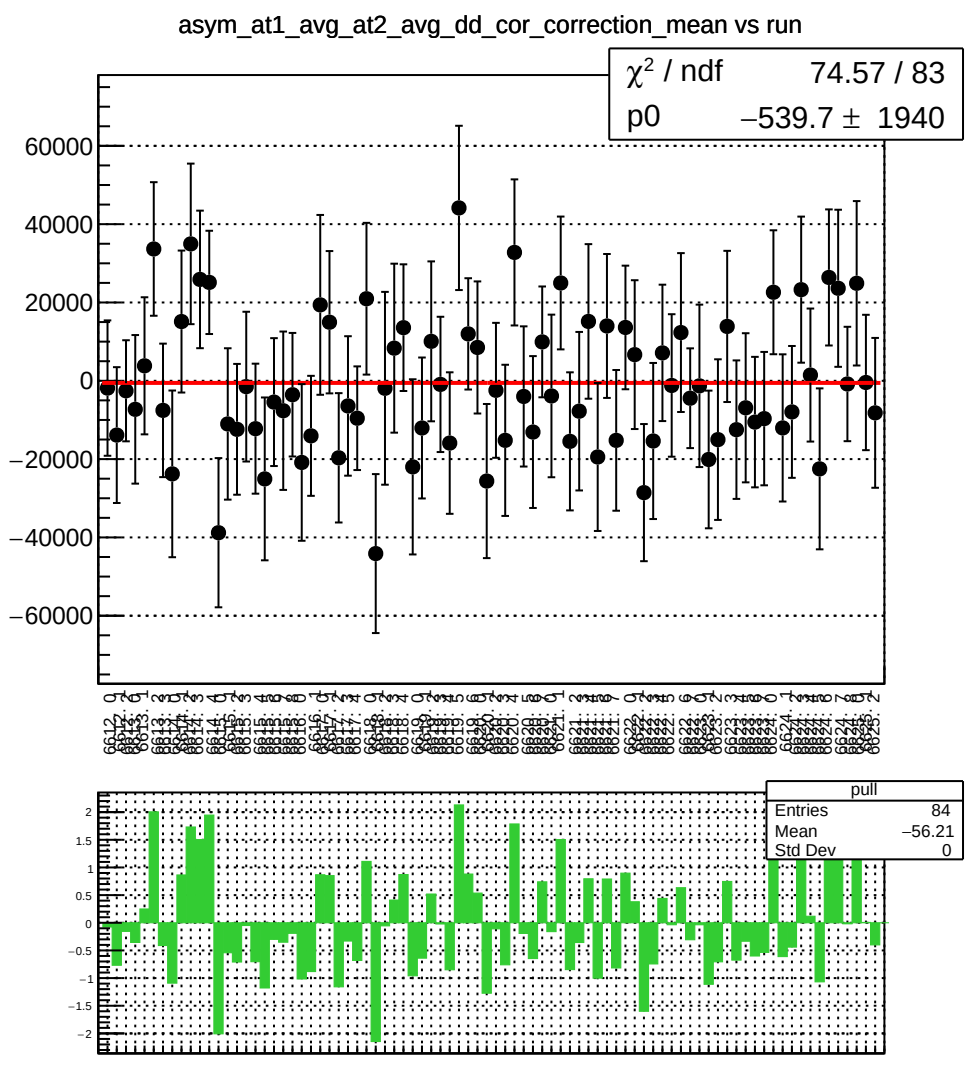

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
χ² / ndf 74.57 / 83
p0 −540.1± 1940
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −56.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.01185
Std Dev 0.9421
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

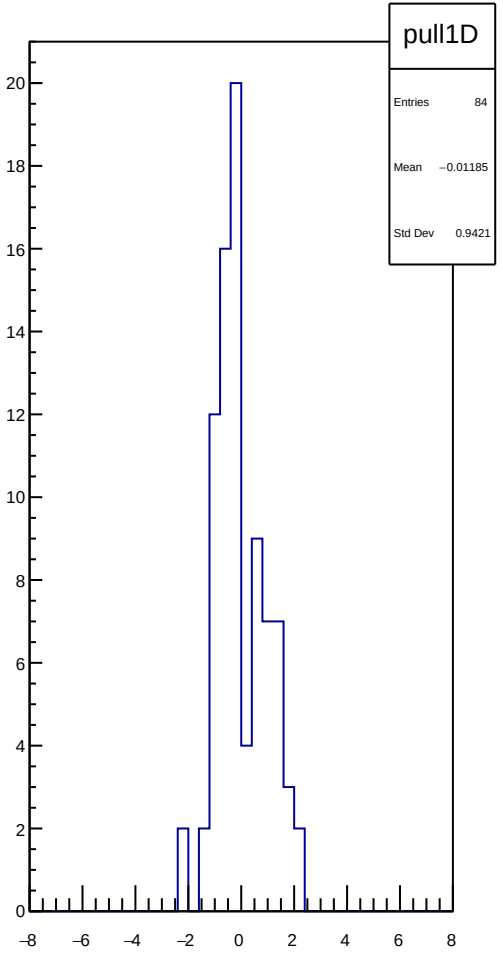

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1.186e+04 / 83
p0 1746 ± 1.371
2400
2200
2000
1800
1600
1400

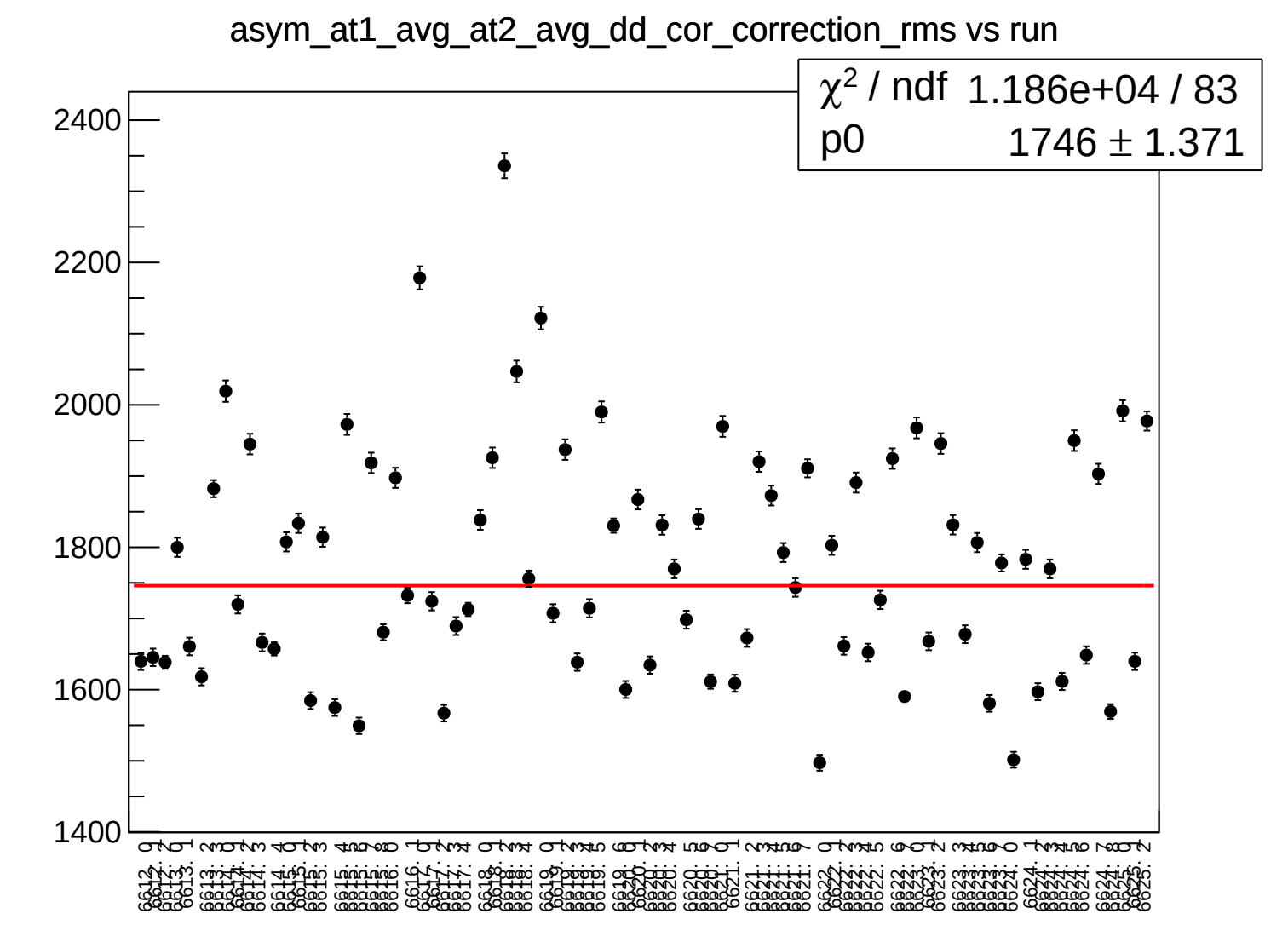

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 76.42 / 83
p0 −495.3 ± 1998
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 468.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

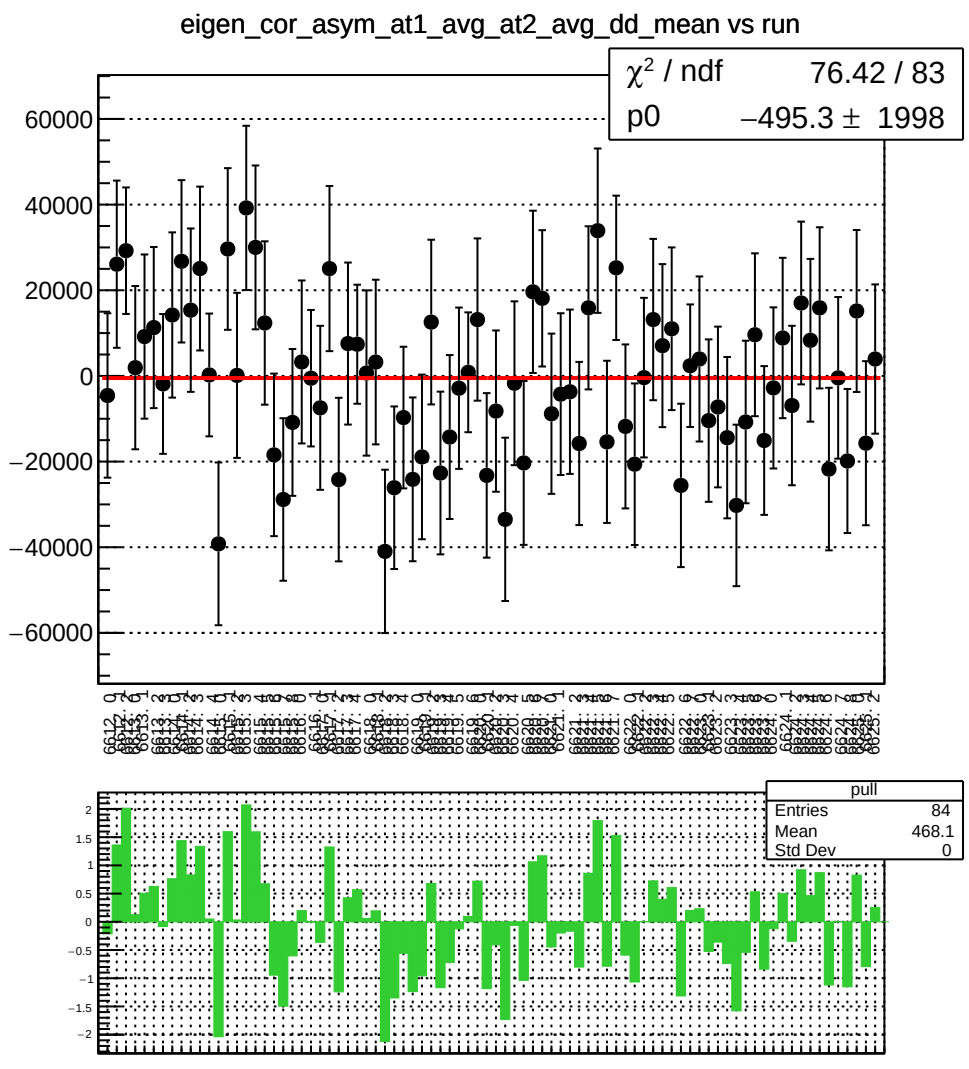

pull1D
Entries 84
Mean −0.01052
Std Dev 0.9538
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

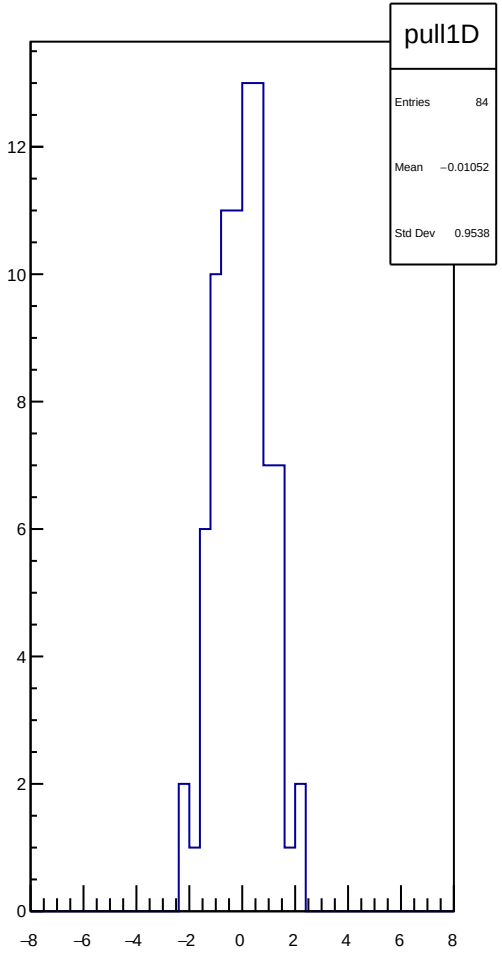

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 155.9 / 83
p0 1805 ± 1.413
1880
1860
1840
1820
1800
1780
1760
1740

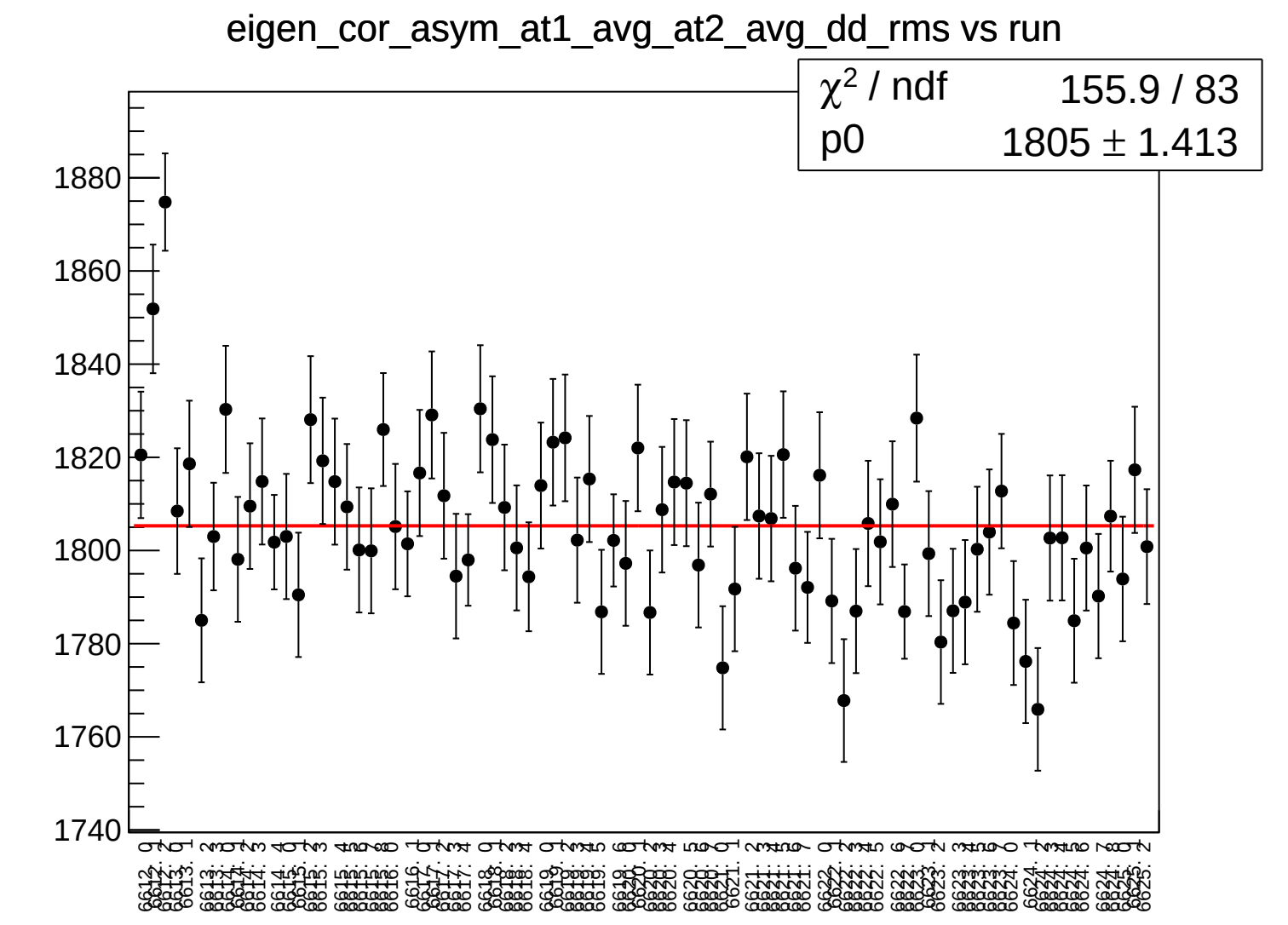

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
χ² / ndf 74.57 / 83
p0 −539.7 ± 1940
pull
Entries 84
Mean −56.21
Std Dev 0

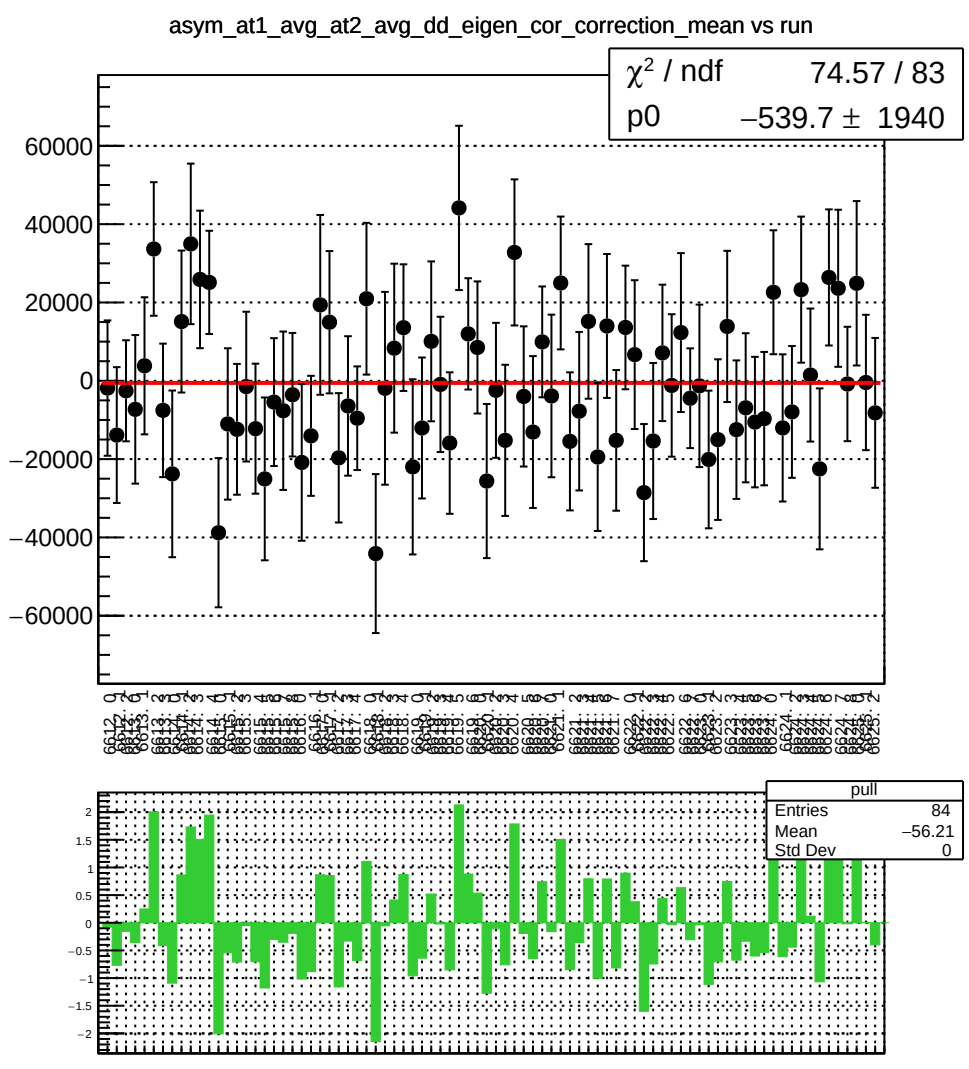

pull1D
Entries 84
Mean −0.01185
Std Dev 0.9421

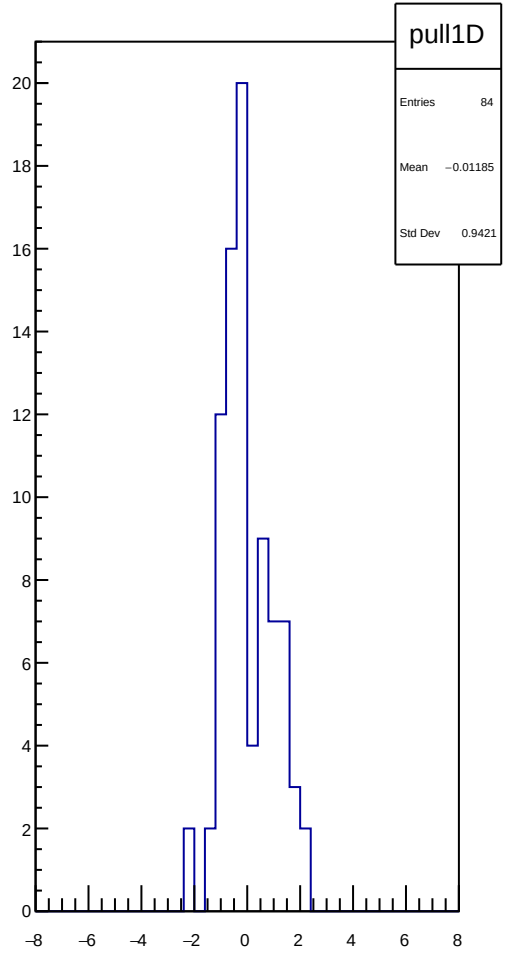

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 1.186e+04 / 83
p0 1746 ± 1.371
2400
2200
2000
1800
1600
1400

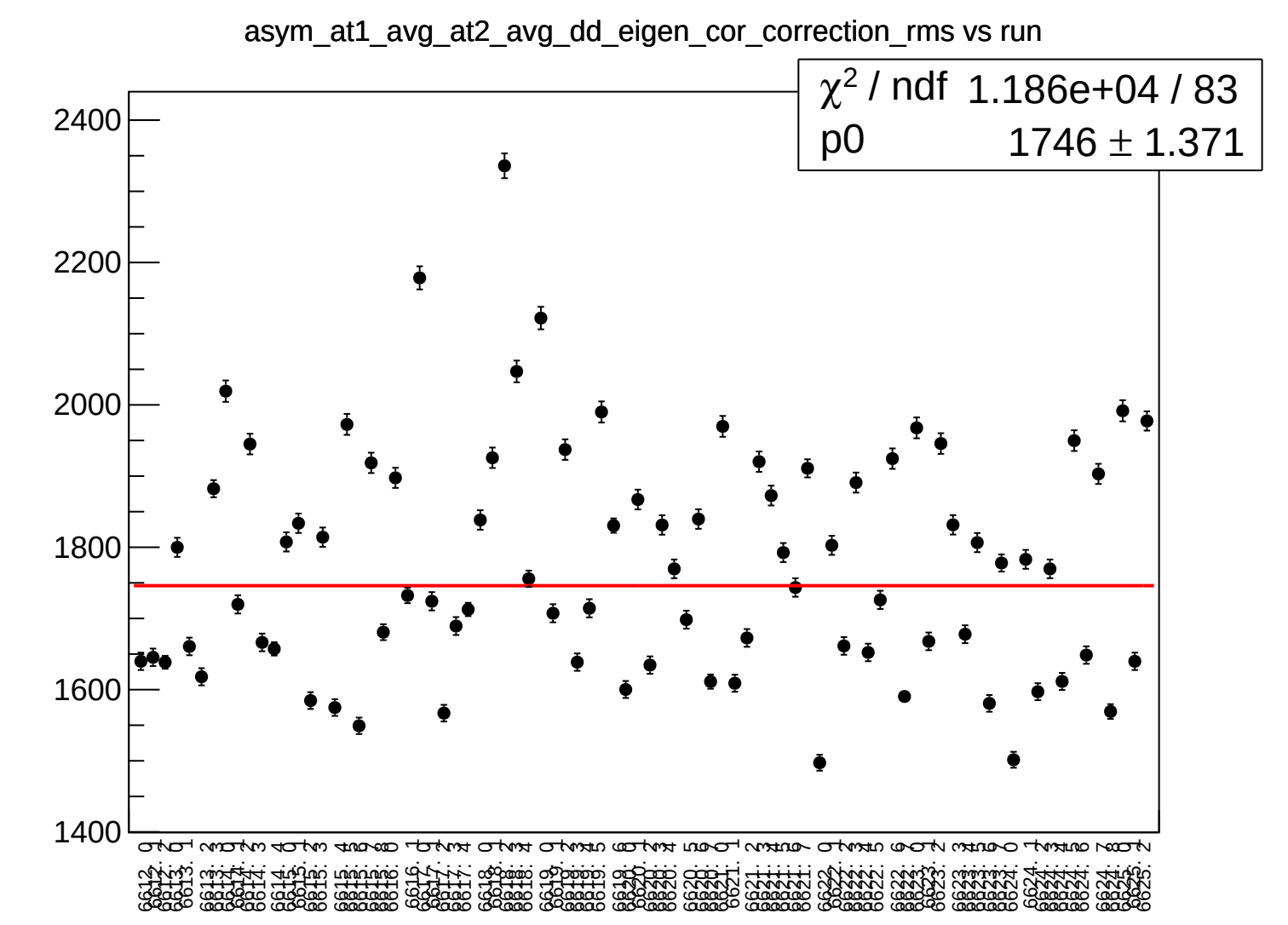

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 76.42 / 83
p0 −495.3 ± 1998
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 468.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

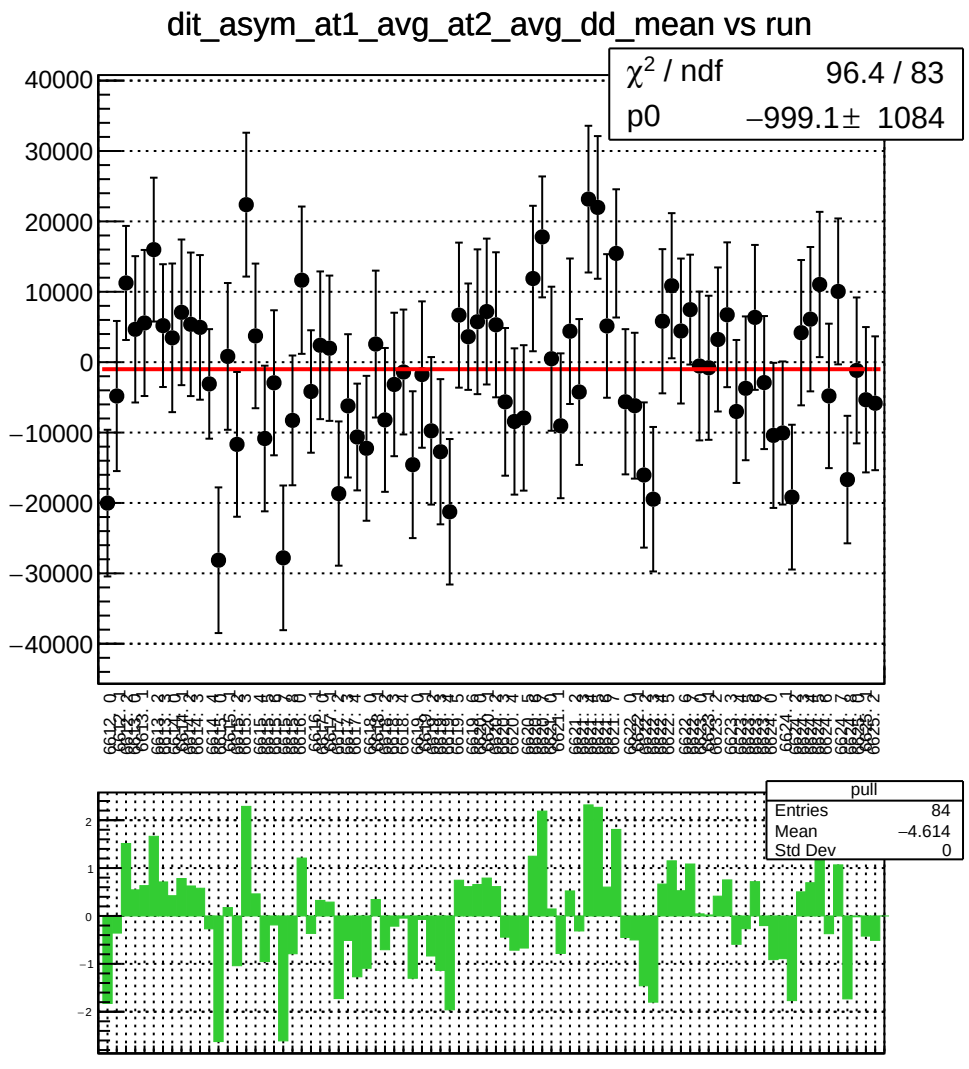

pull1D
Entries 84
Mean −0.01052
Std Dev 0.9538
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

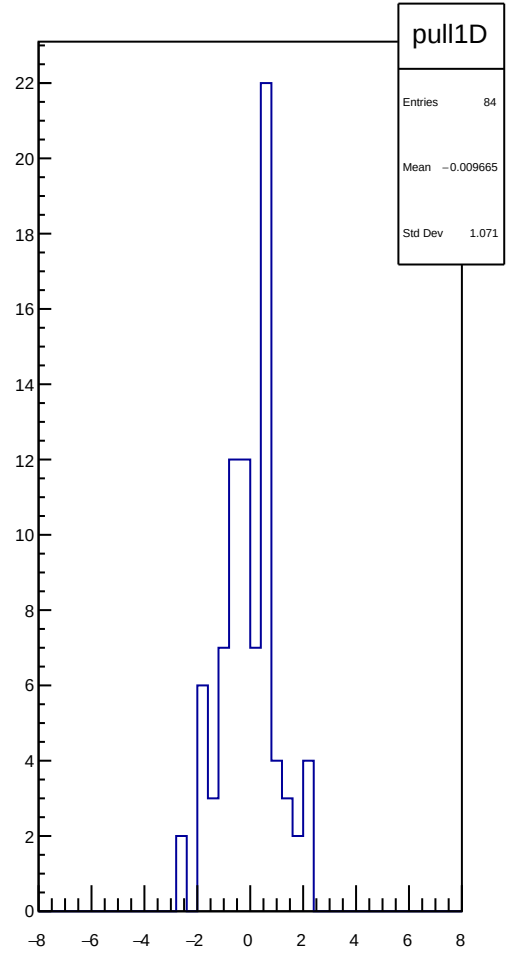

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 155.9 / 83
p0 1805 ± 1.413
1880
1860
1840
1820
1800
1780
1760
1740

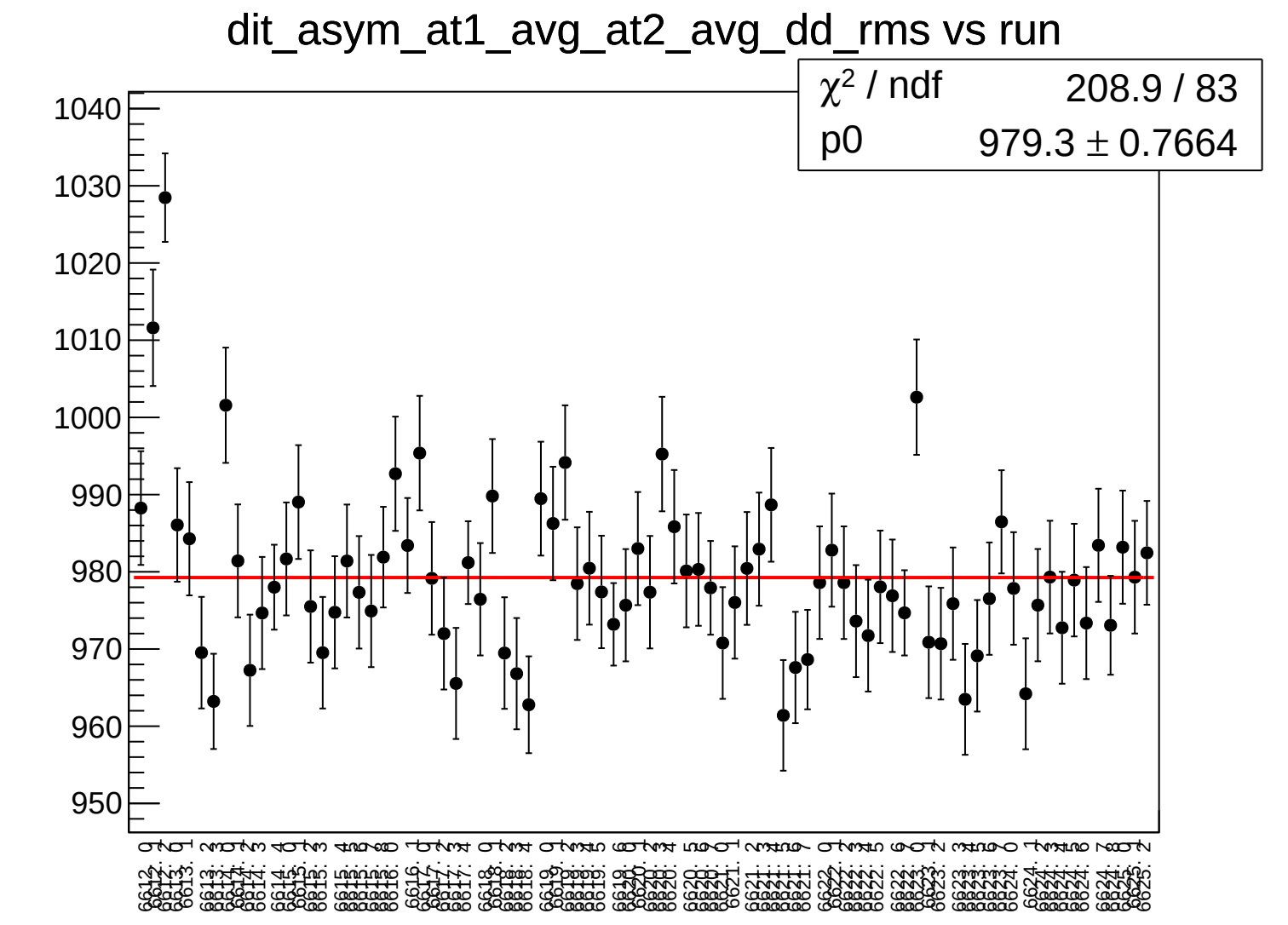

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.57 / 83
p0 −539.7 ± 1940
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −56.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

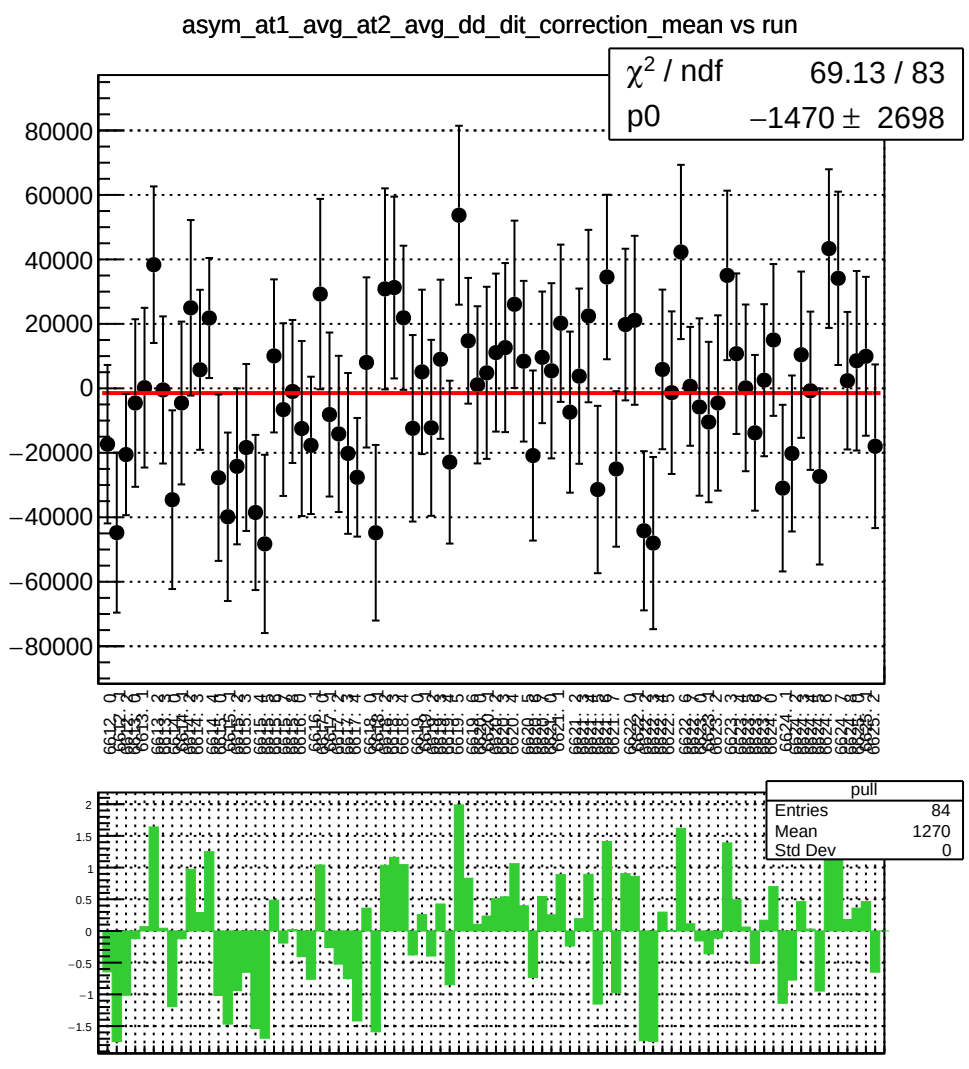

pull1D
Entries 84
Mean −0.01185
Std Dev 0.9421
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

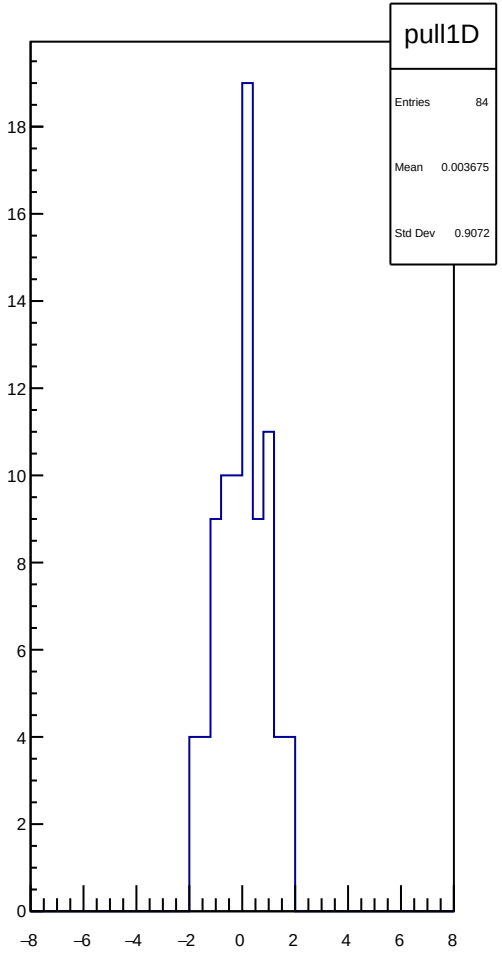

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.186e+04 / 83
p0 1746 ± 1.371
2400
2200
2000
1800
1600
1400

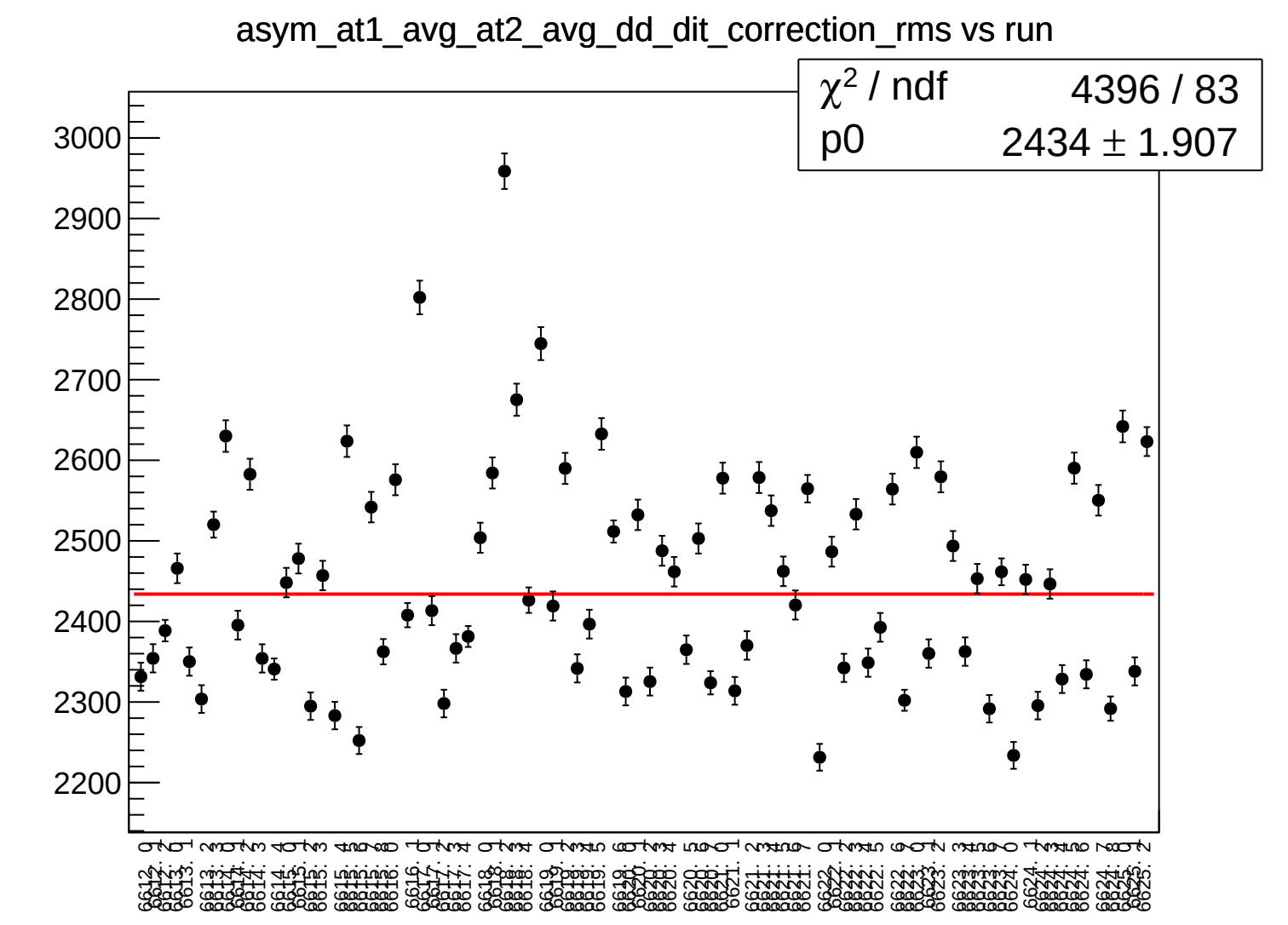

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 96.4 / 83
p0 −999.1± 1084
pull
Entries 84
Mean −4.614
Std Dev 0

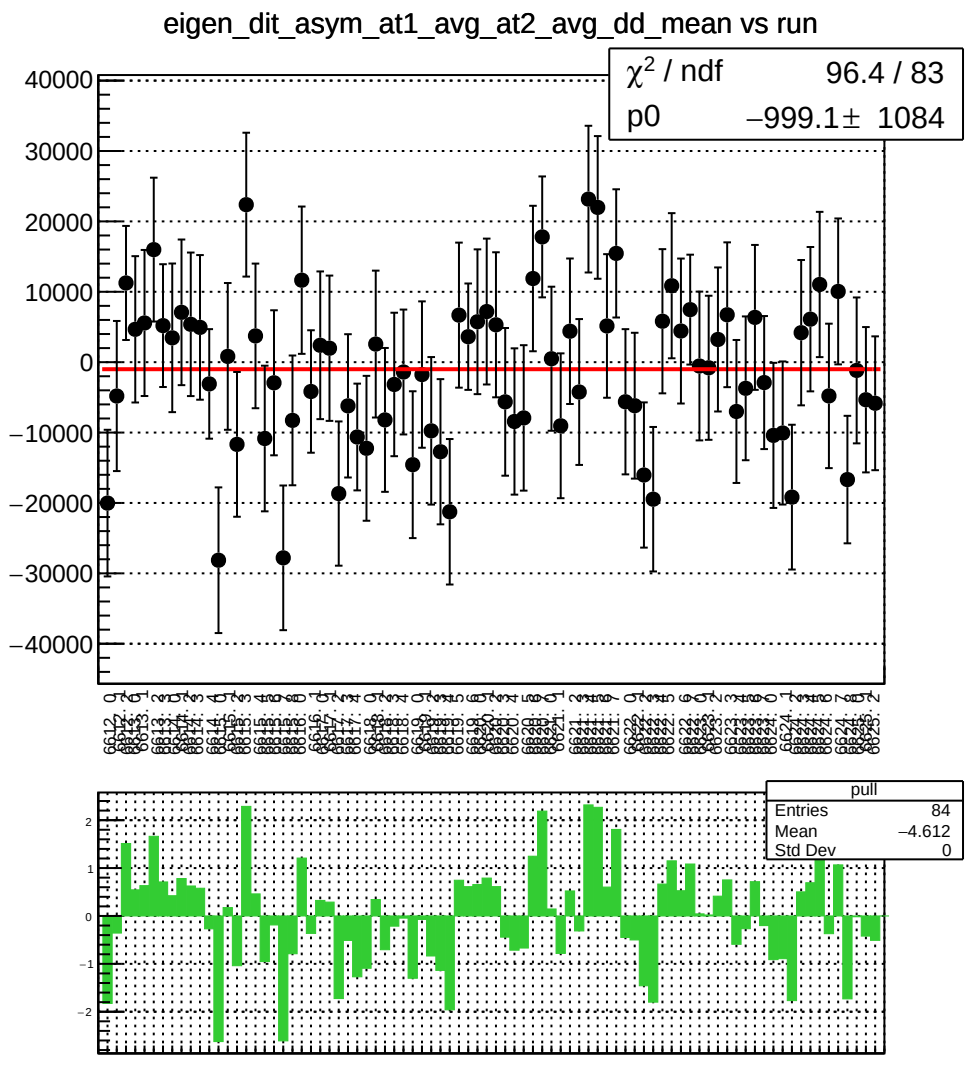

pull1D
Entries 84
Mean −0.009665
Std Dev 1.071

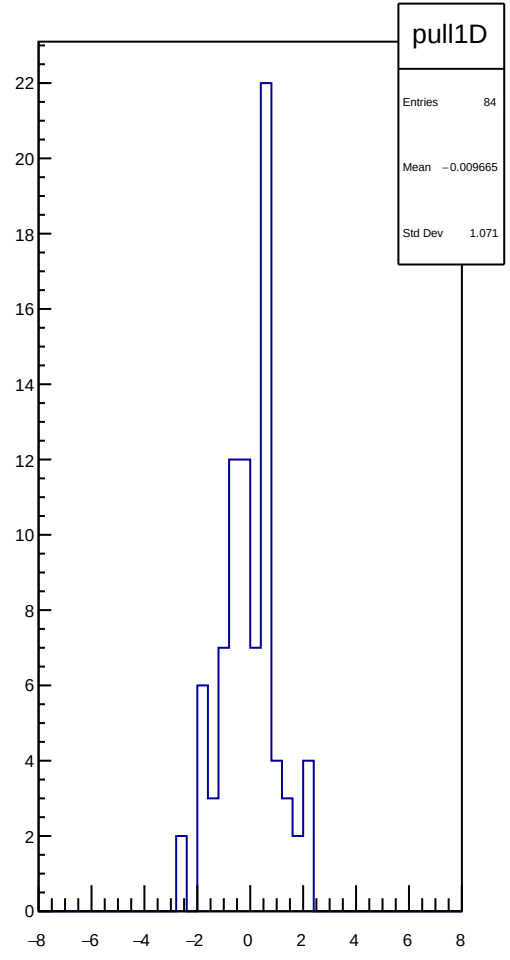

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 208.9 / 83
p0 979.3 ± 0.7664
1040
1030
1020
1010
1000
990
980
970
960
950

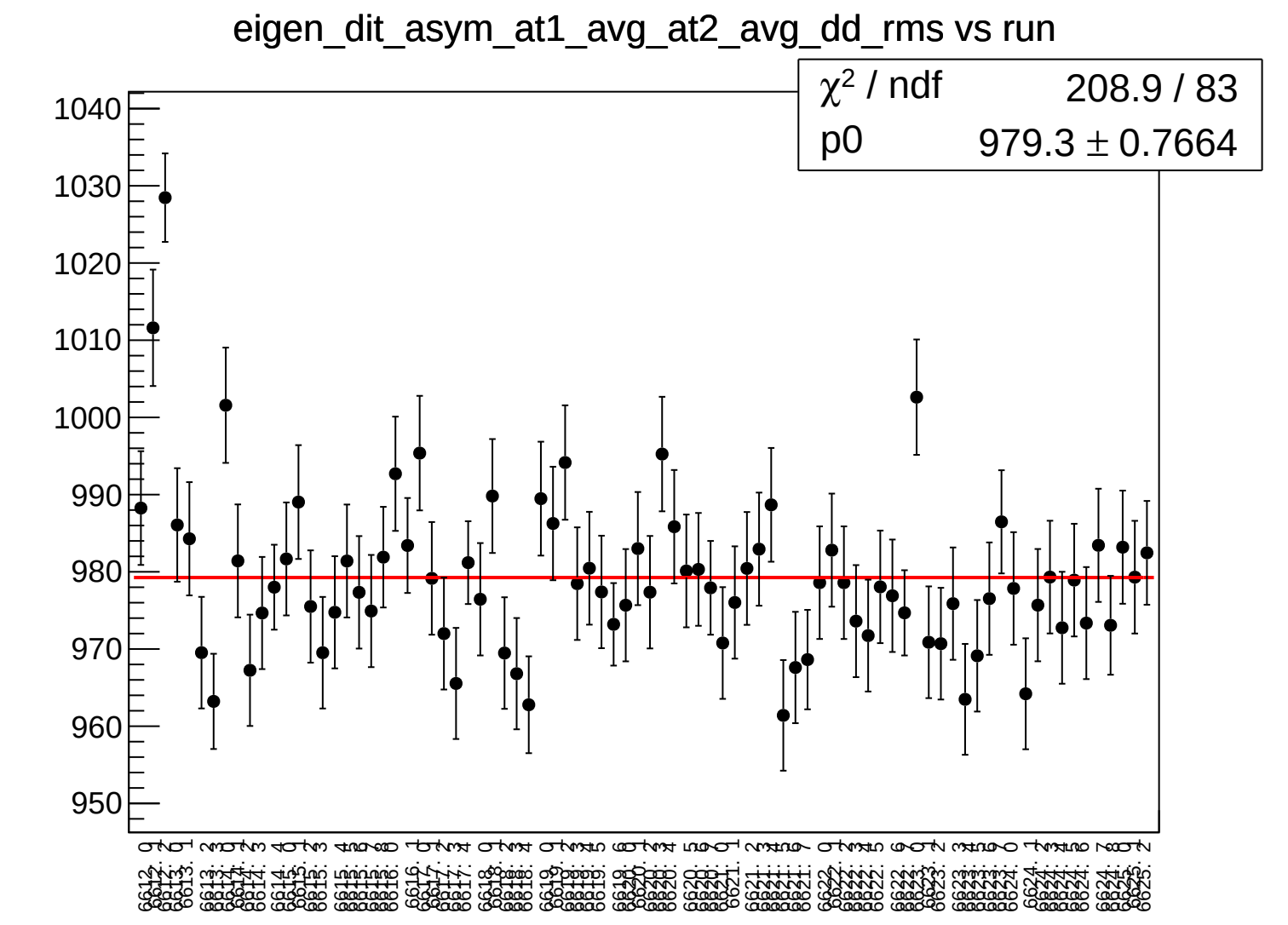

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
χ² / ndf 69.13 / 83
p0 −1470 ± 2698
pull
Entries 84
Mean 1270
Std Dev 0

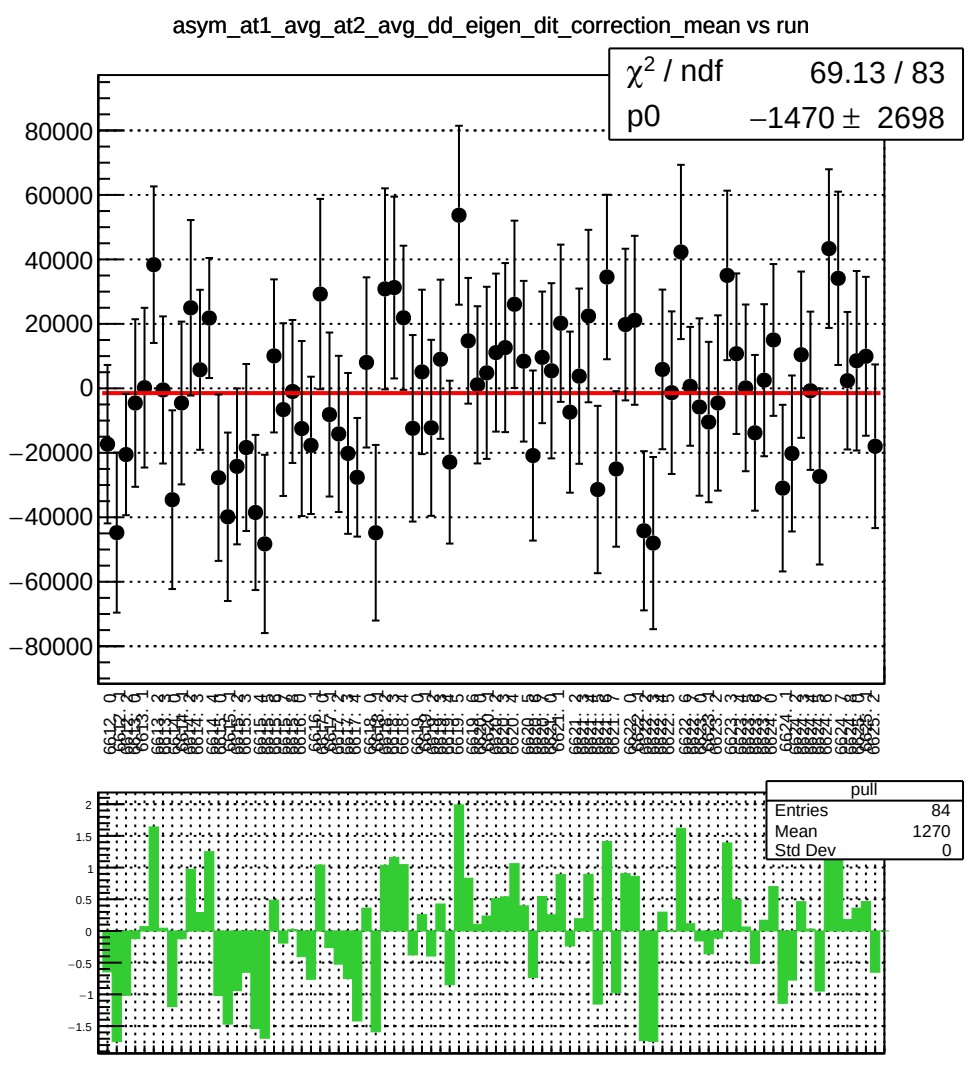

pull1D
Entries 84
Mean 0.003675
Std Dev 0.9072

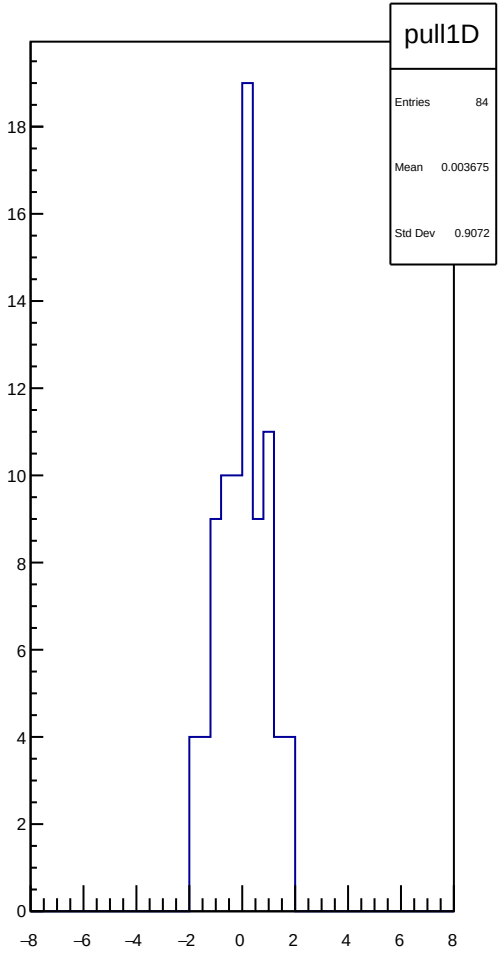

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 4396 / 83
p0 2434 ± 1.907
3000
2900
2800
2700
2600
2500
2400
2300
2200

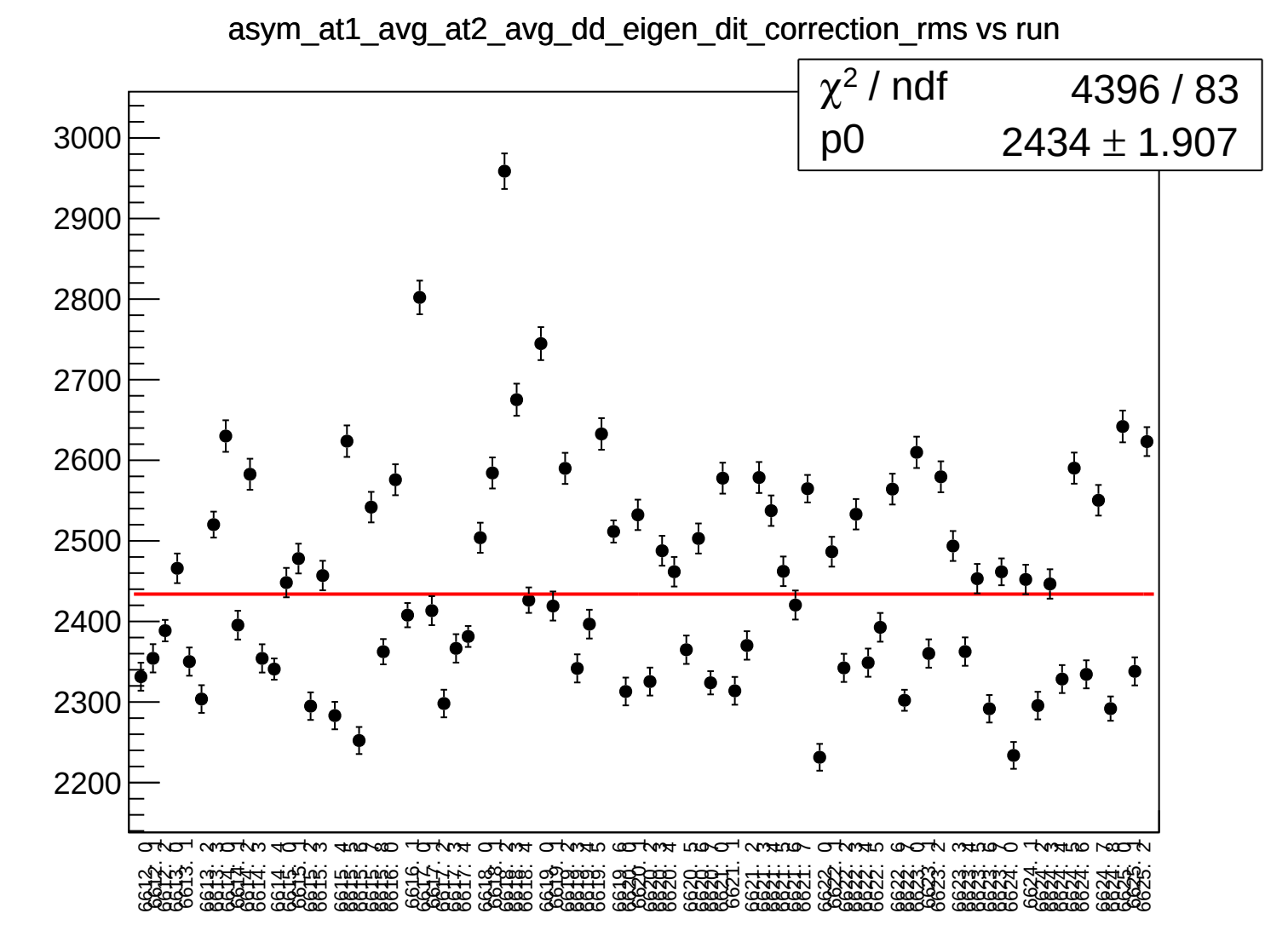

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 96.4 / 83
p0 −999.1± 1084
pull
Entries 84
Mean −4.612
Std Dev 0

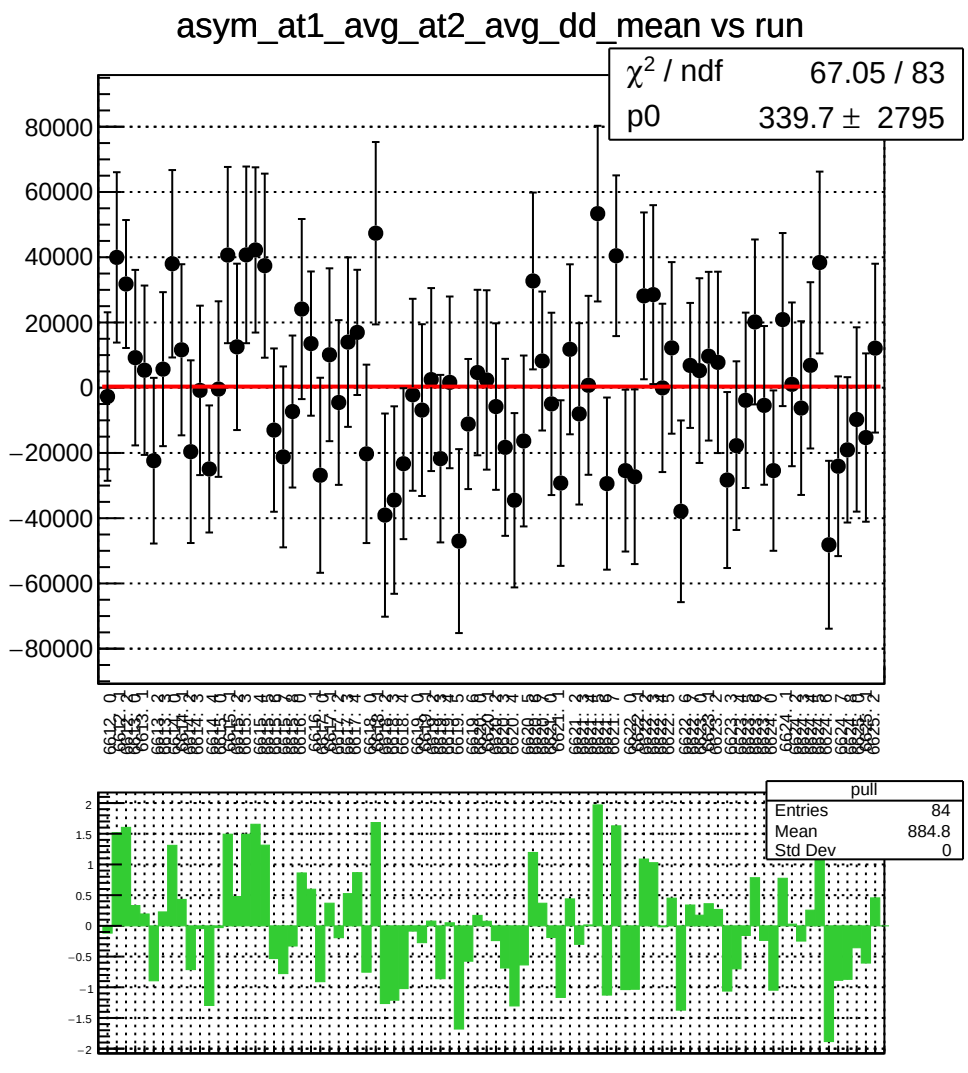

pull1D
Entries 84
Mean −0.009665
Std Dev 1.071

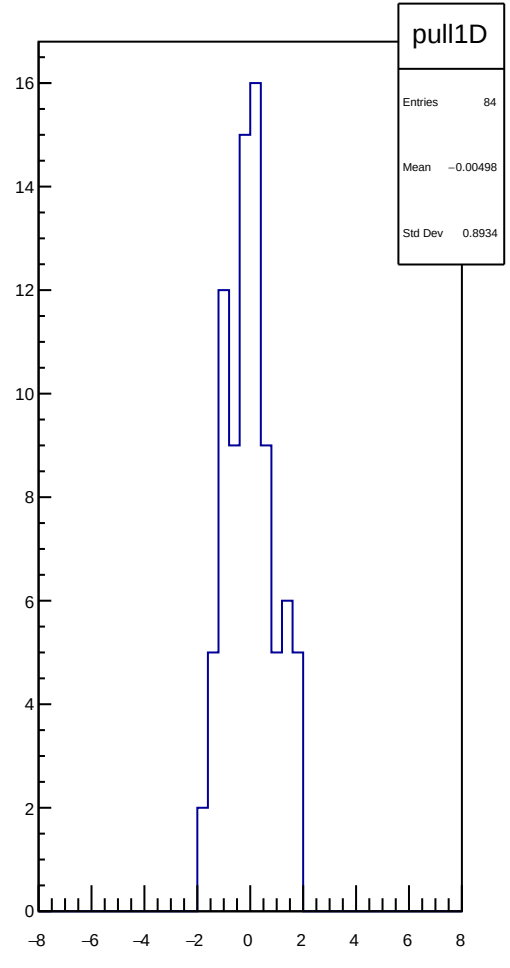

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 208.9 / 83
p0 979.3 ± 0.7664
1040
1030
1020
1010
1000
990
980
970
960
950

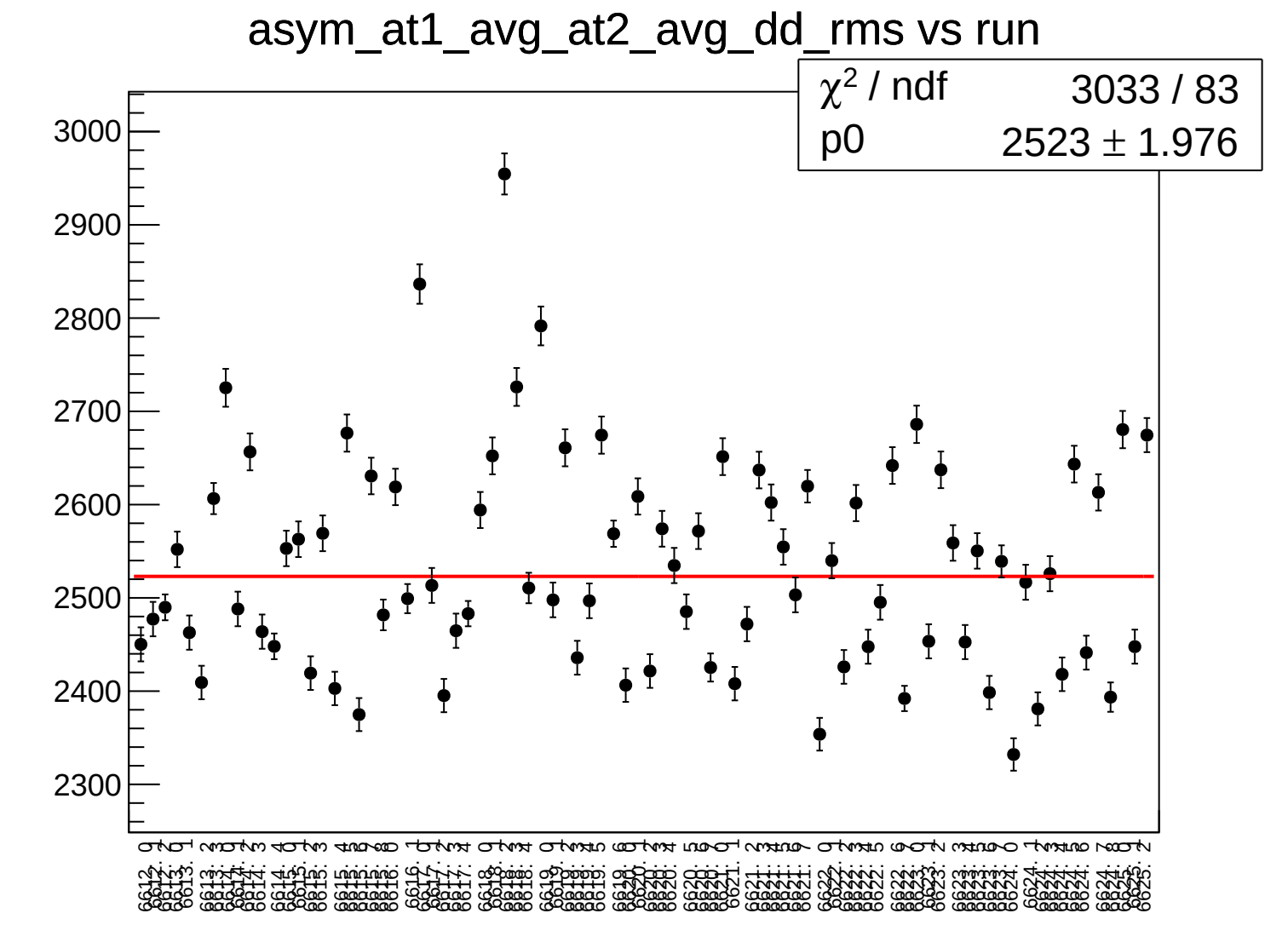

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.13 / 83
p0 −1470 ± 2698
pull
Entries 84
Mean 1270
Std Dev 0

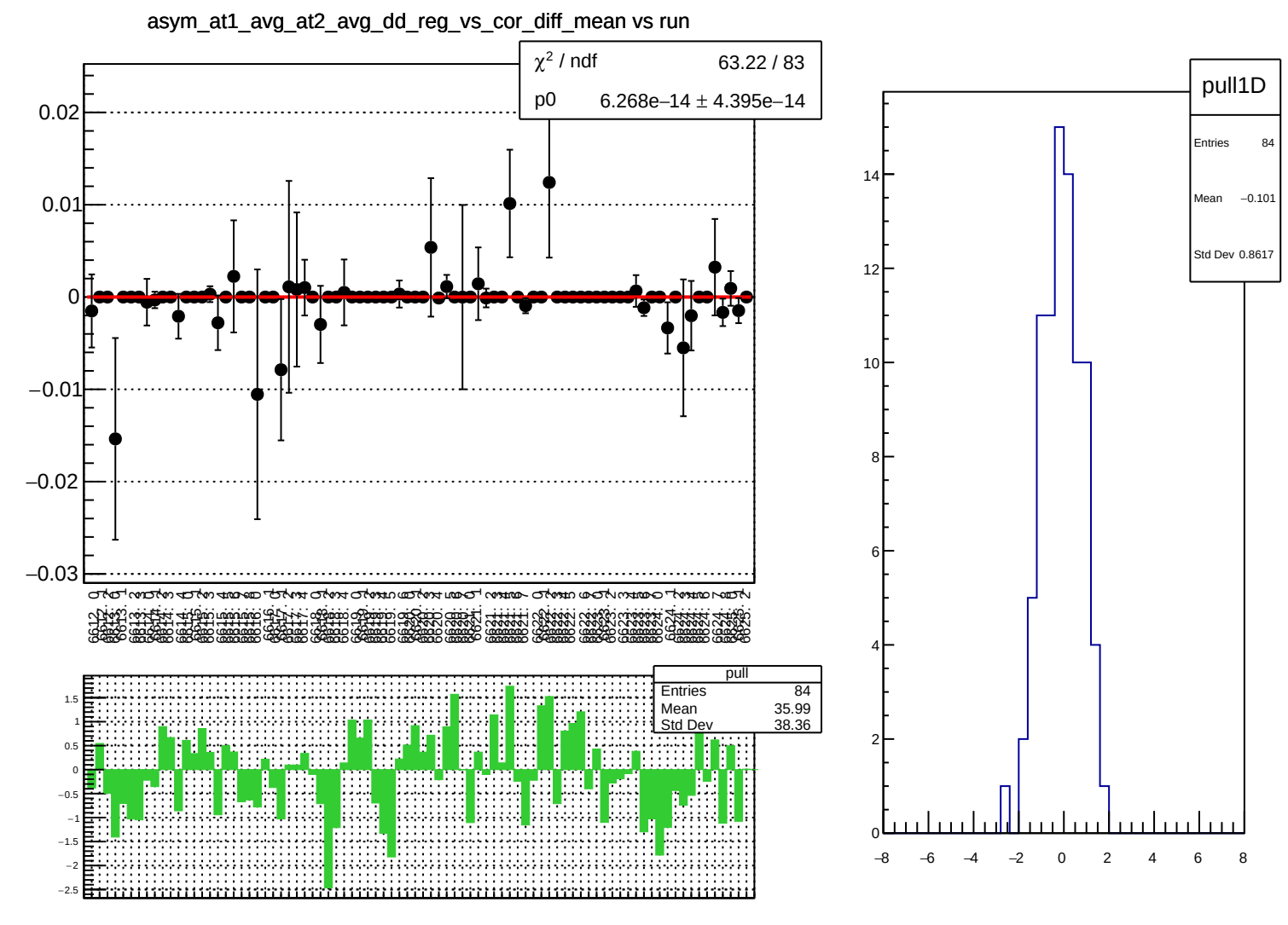

pull1D
Entries 84
Mean 0.003675
Std Dev 0.9072

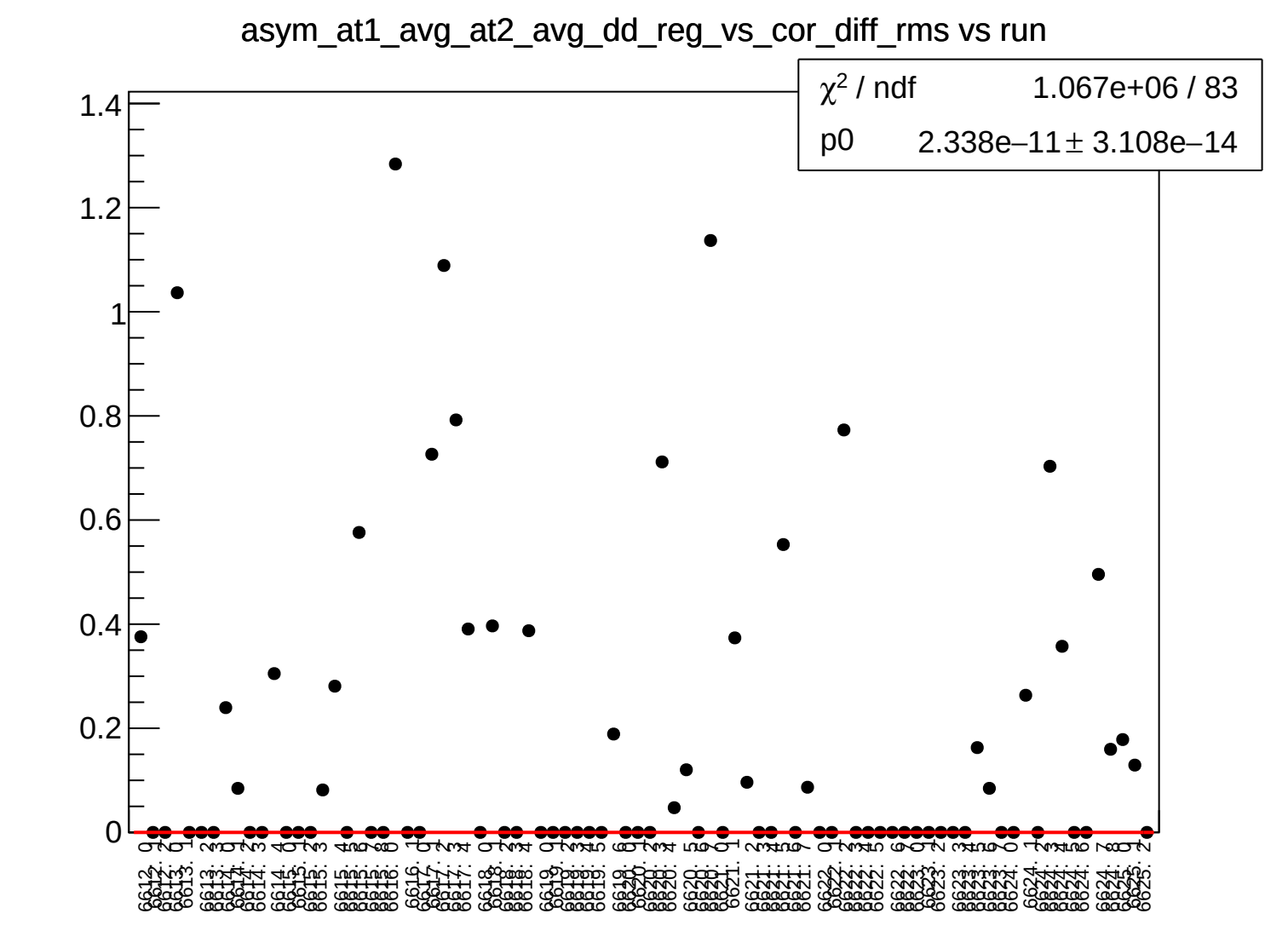

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4396 / 83
p0 2434 ± 1.907
3000
2900
2800
2700
2600
2500
2400
2300
2200

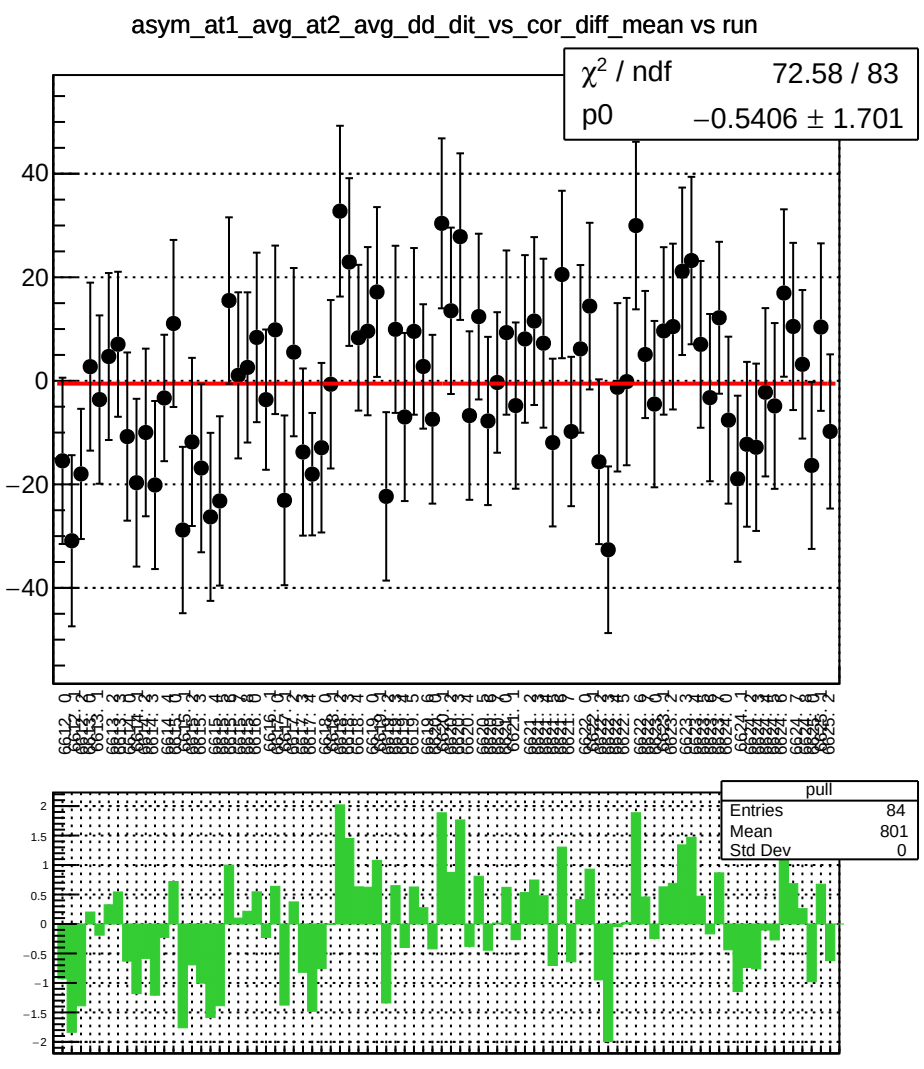

asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 67.05 / 83
p0 339.7 ± 2795
pull
Entries 84
Mean 884.8
Std Dev 0

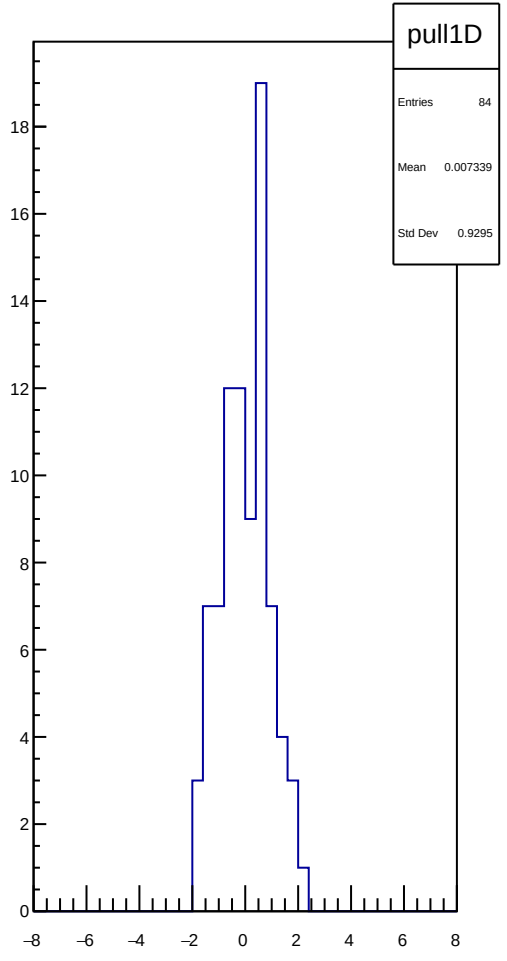

pull1D
Entries 84
Mean −0.00498
Std Dev 0.8934

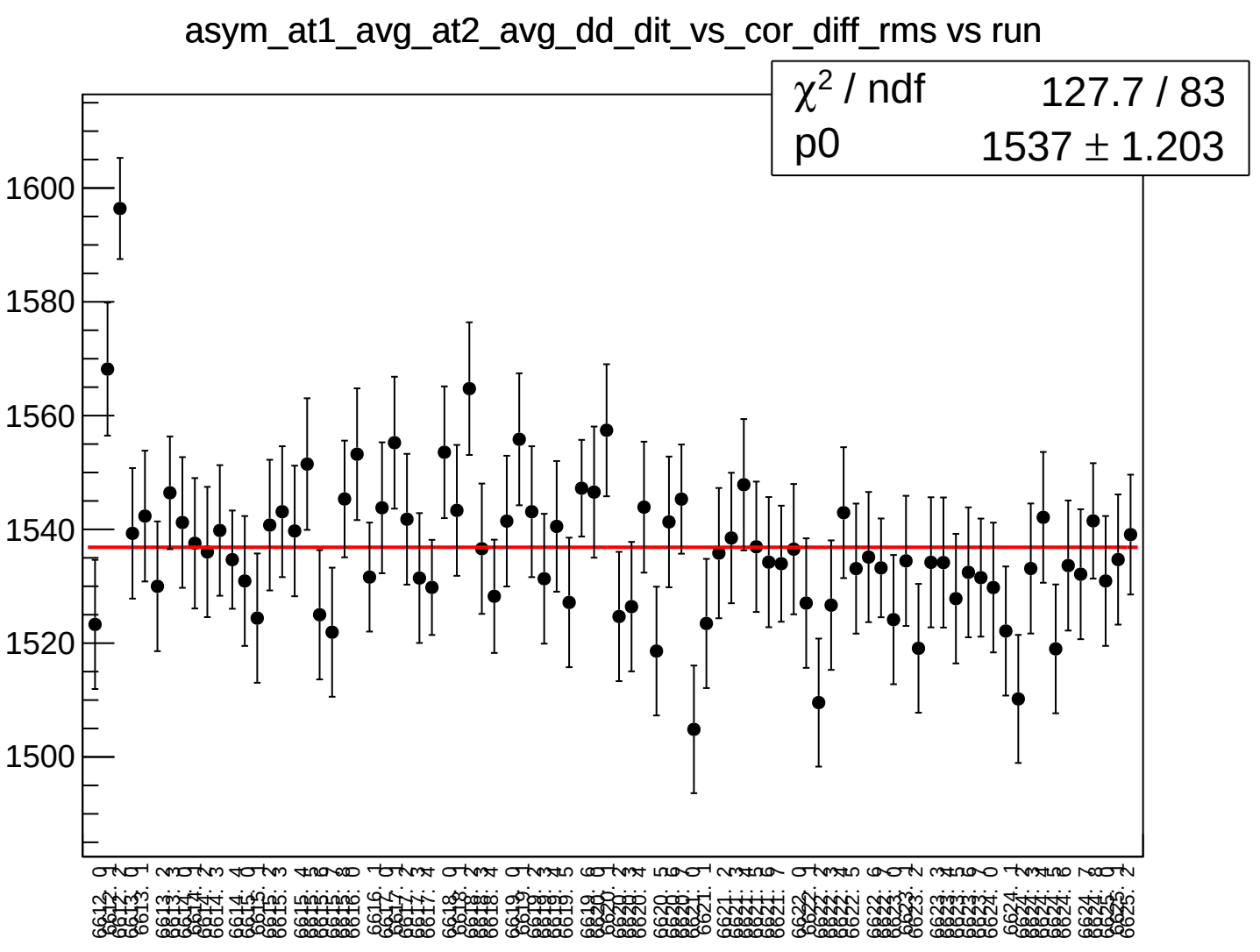

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 3033 / 83
p0 2523 ± 1.976
3000
2900
2800
2700
2600
2500
2400
2300

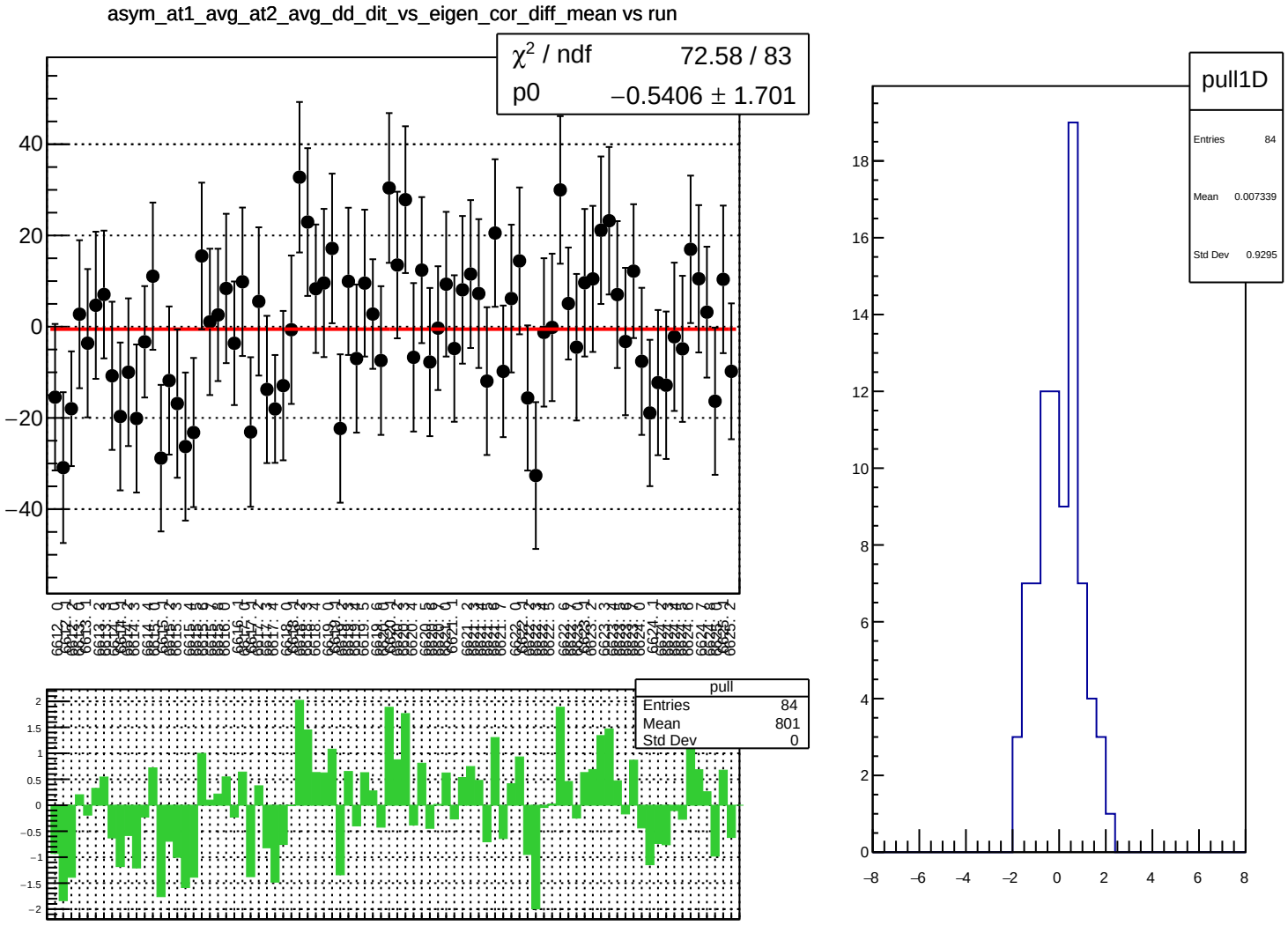

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 63.22 / 83
p0 6.268e−14 ± 4.395e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean 35.99
Std Dev 38.36
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 84
Mean −0.101
Std Dev 0.8617
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

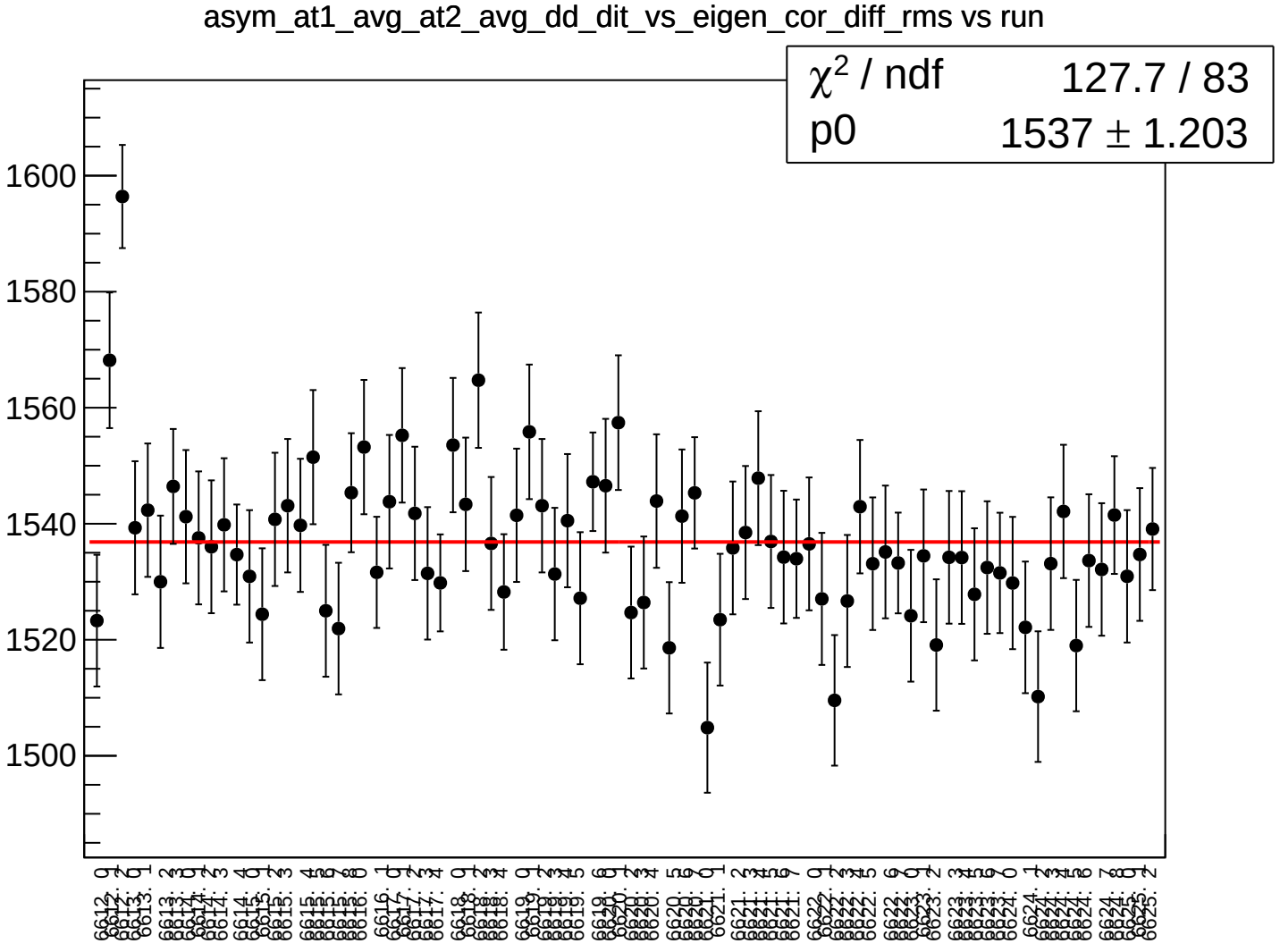

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.067e+06 / 83
p0 2.338e−11 ± 3.108e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

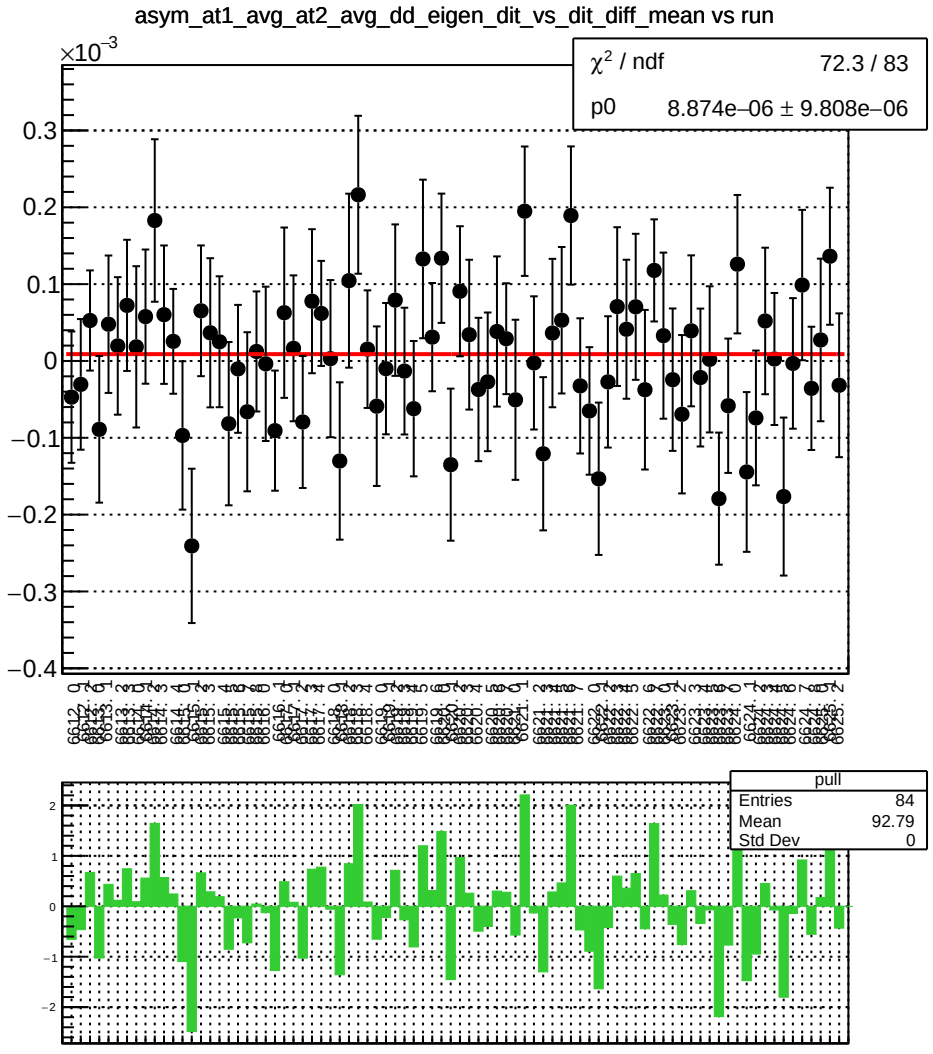

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.58 / 83
p0 −0.5406 ± 1.701
40
20
0
−20
−40
pull
Entries 84
Mean 801
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

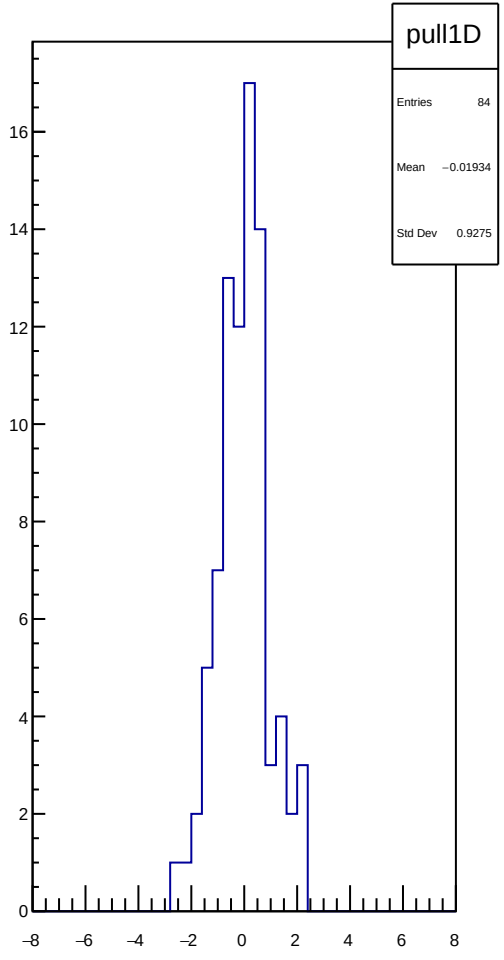

pull1D
Entries 84
Mean 0.007339
Std Dev 0.9295
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

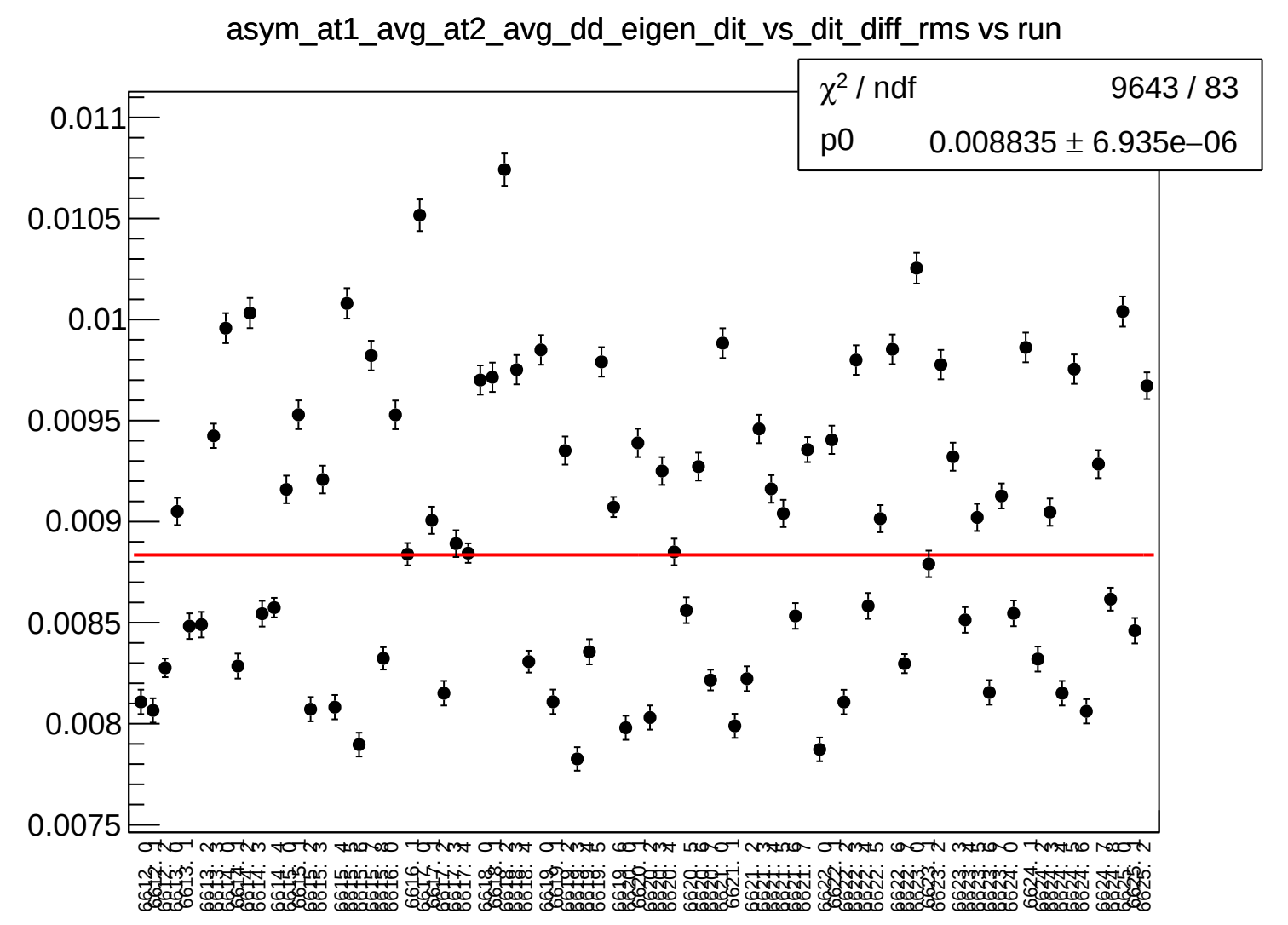

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 127.7 / 83
p0 1537 ± 1.203
1600
1580
1560
1540
1520
1500

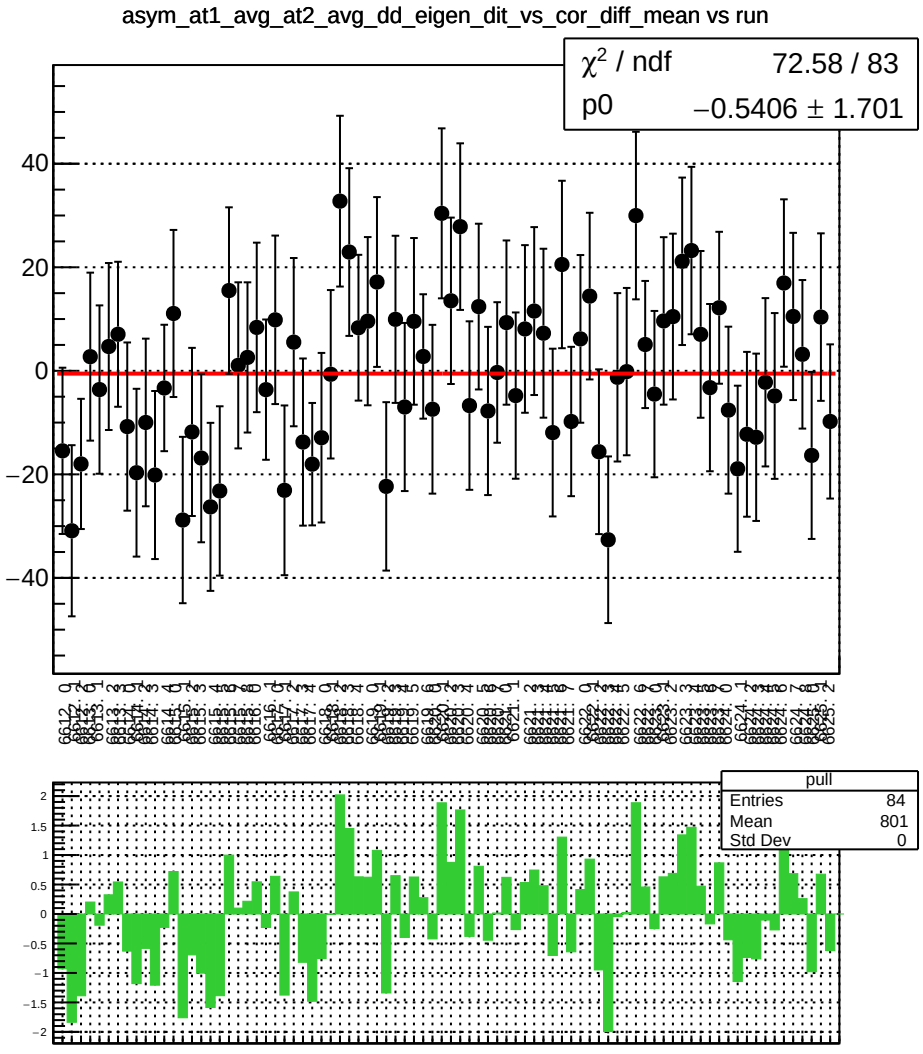

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.58 / 83
p0 −0.5406 ± 1.701
pull
Entries 84
Mean 801
Std Dev 0
pull1D
Entries 84
Mean 0.007339
Std Dev 0.9295

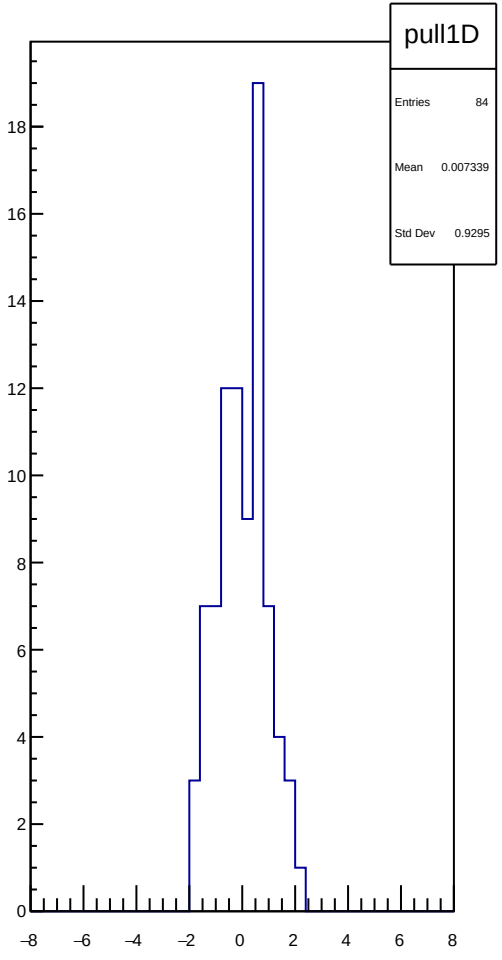

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 127.7 / 83
p0 1537 ± 1.203
1600
1580
1560
1540
1520
1500

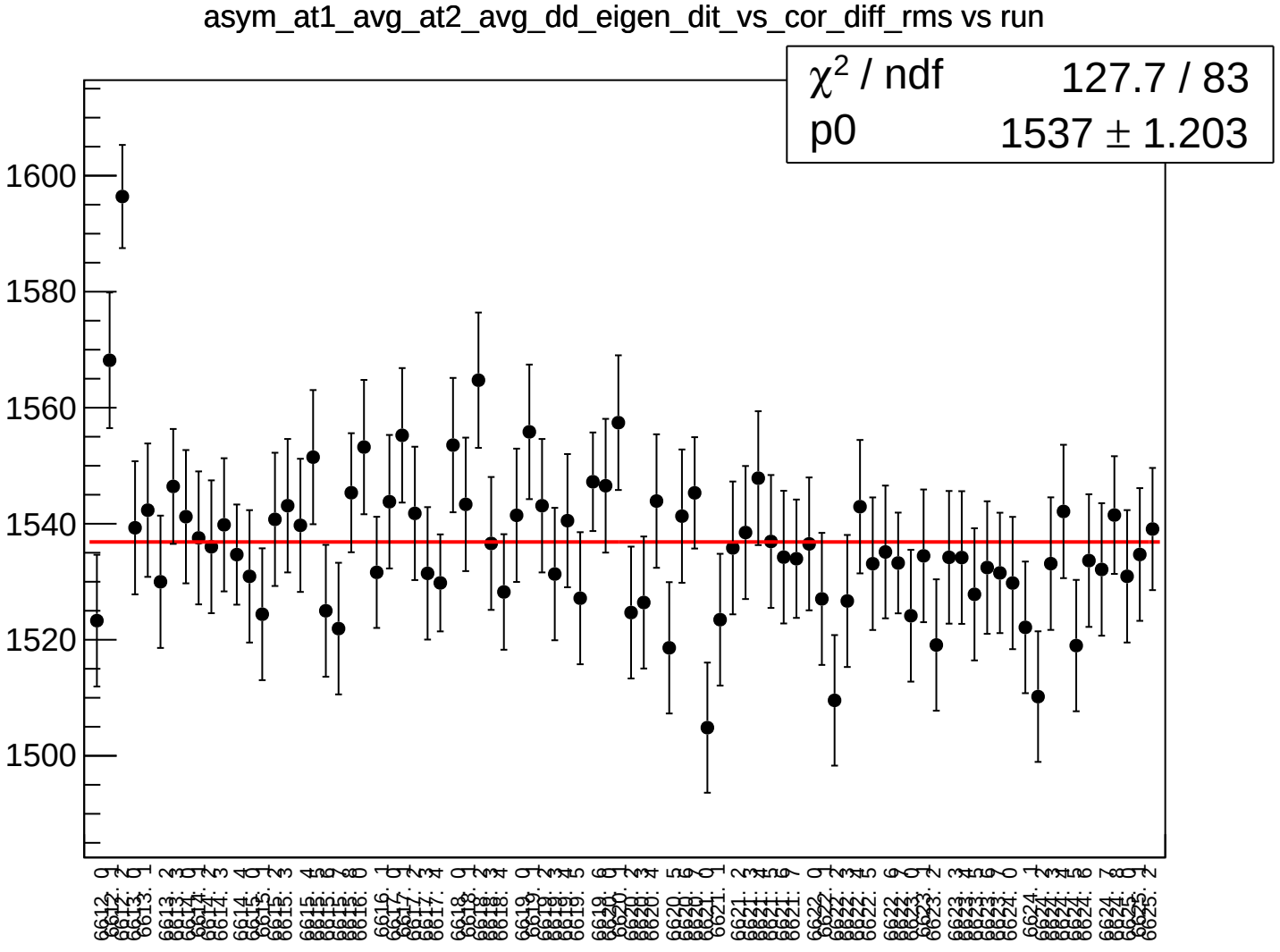

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.3 / 83
p0 8.874e−06 ± 9.808e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 84
Mean 92.79
Std Dev 0
2
1
0
−1
−2

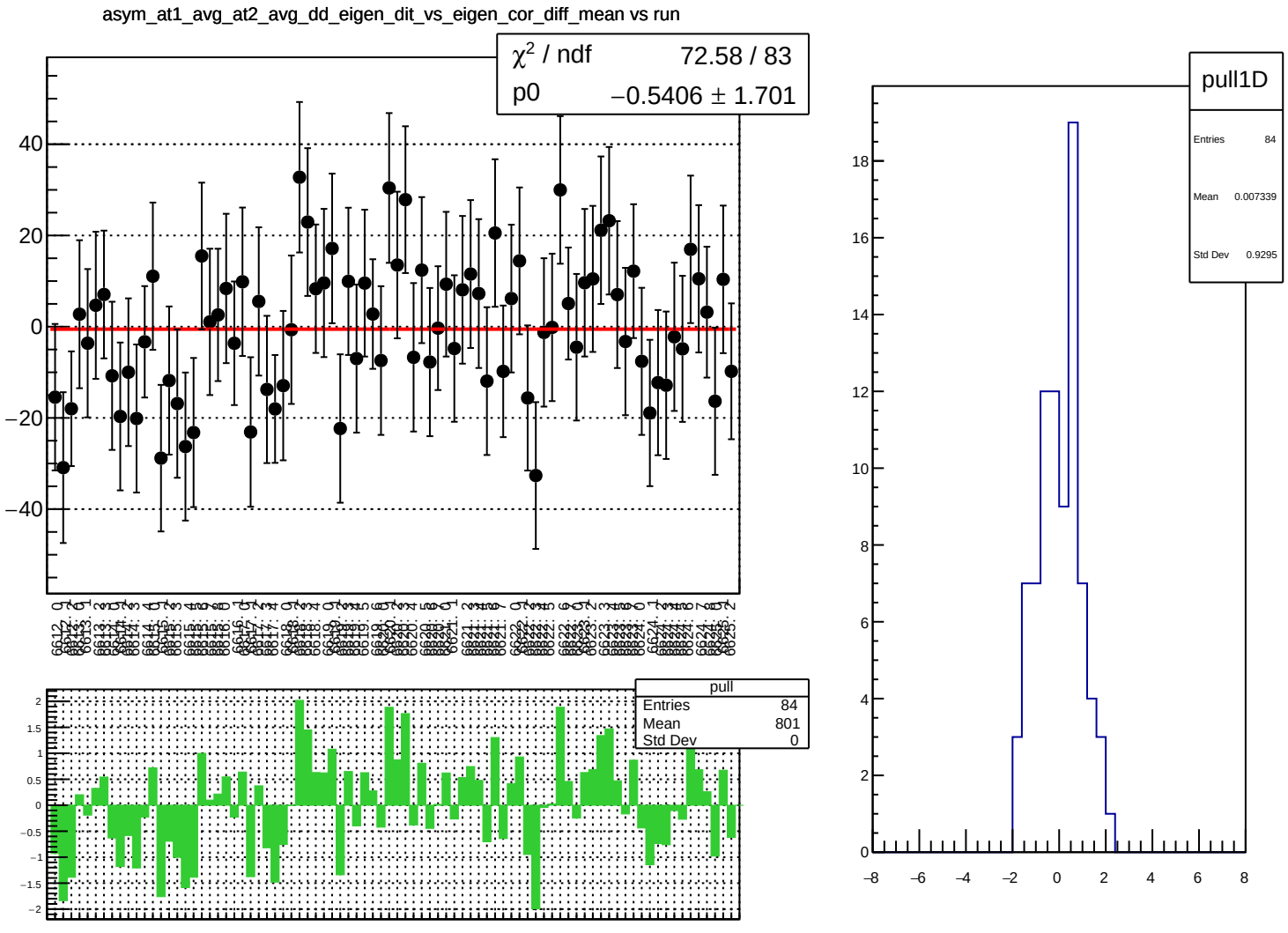

pull1D
Entries 84
Mean −0.01934
Std Dev 0.9275
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

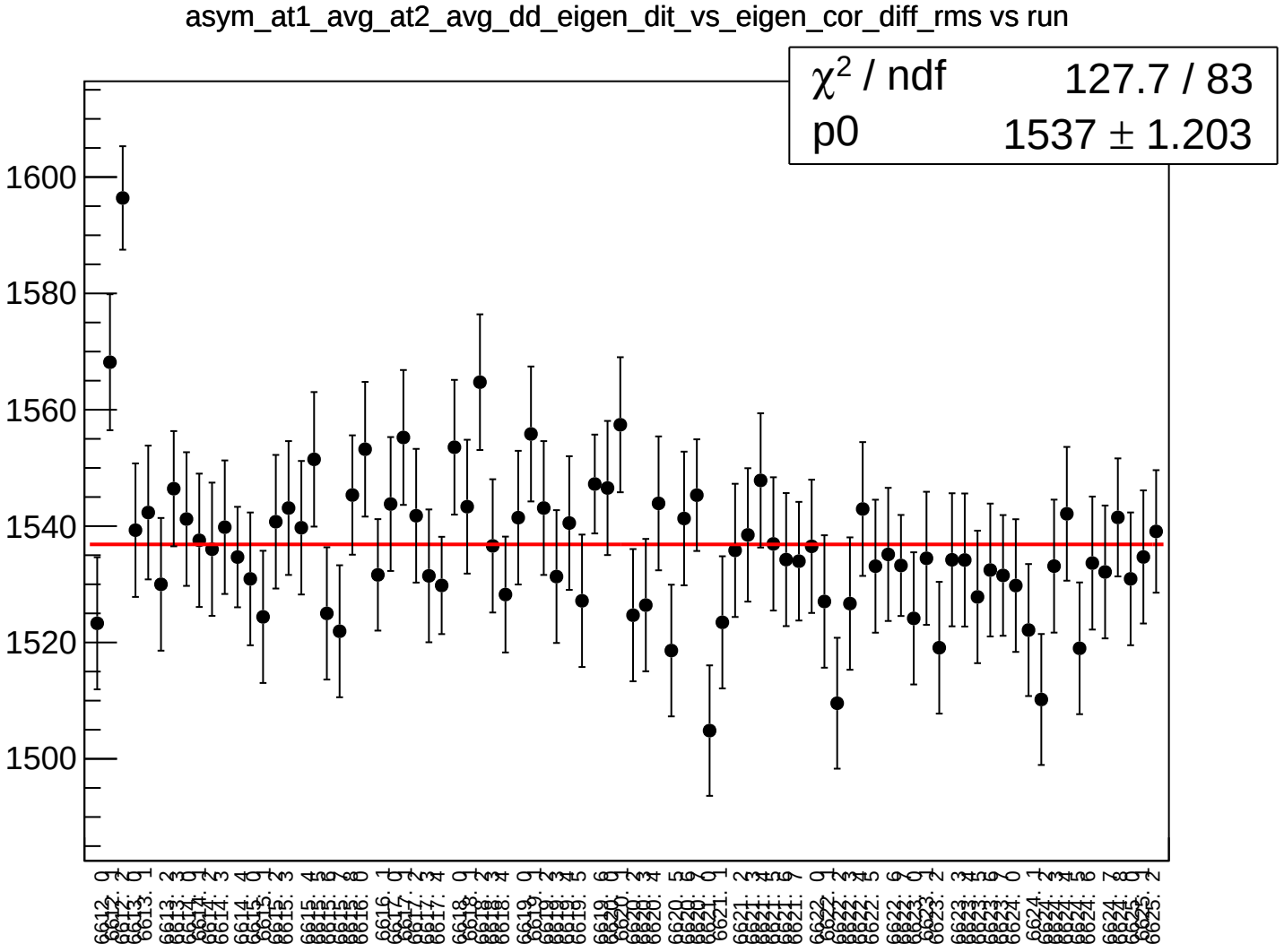

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9643 / 83
p0 0.008835 ± 6.935e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075

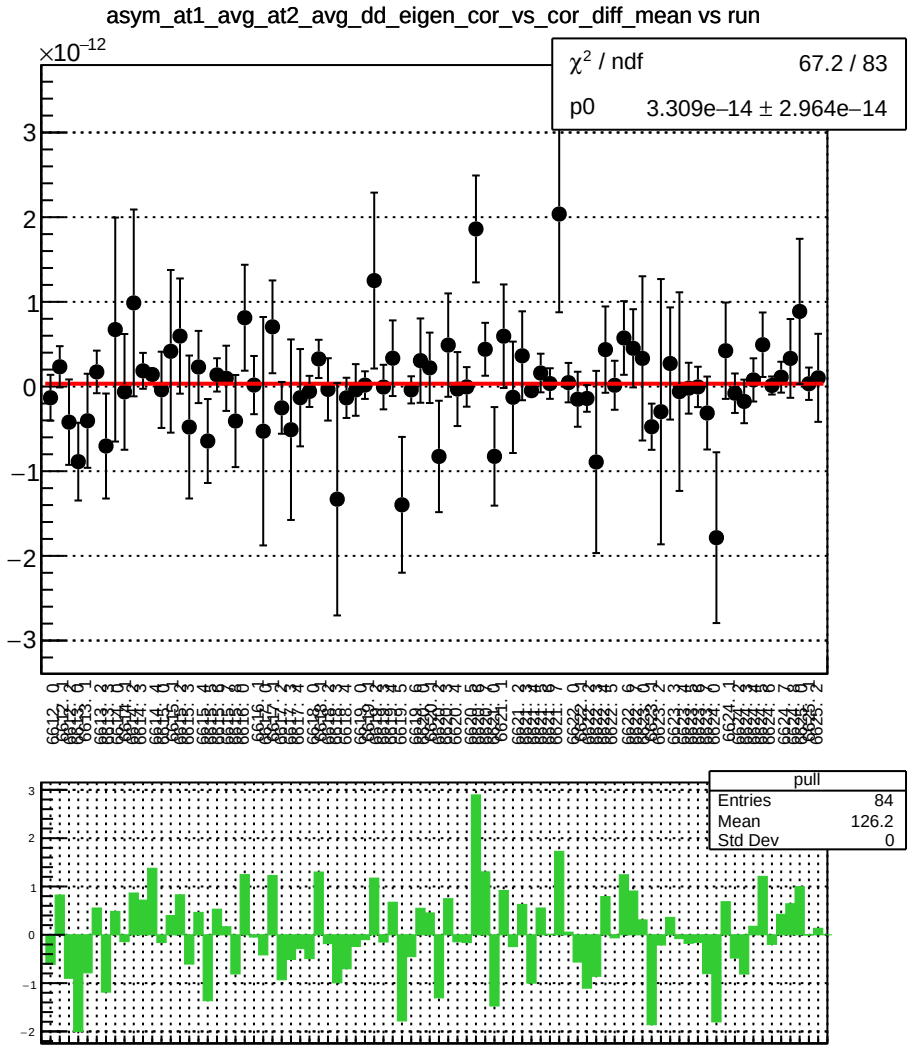

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.58 / 83
p0 −0.5406 ± 1.701
pull
Entries 84
Mean 801
Std Dev 0

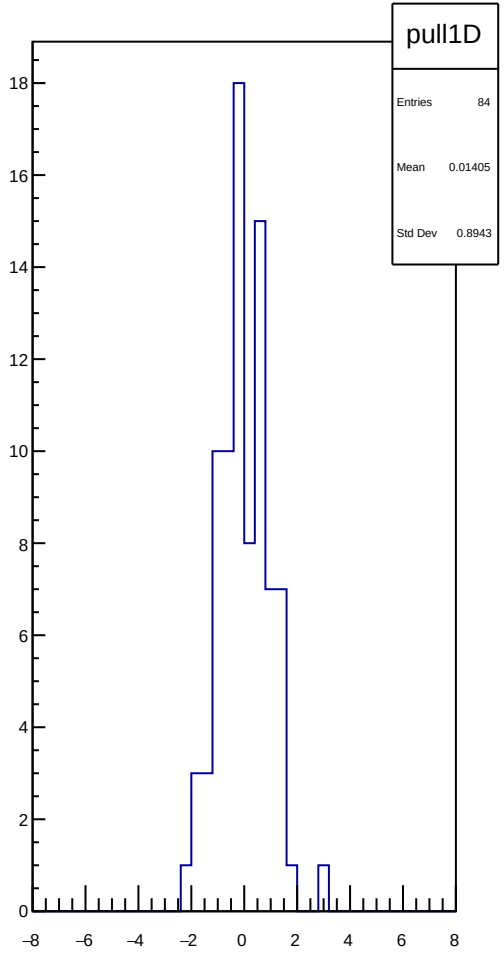

pull1D
Entries 84
Mean 0.007339
Std Dev 0.9295

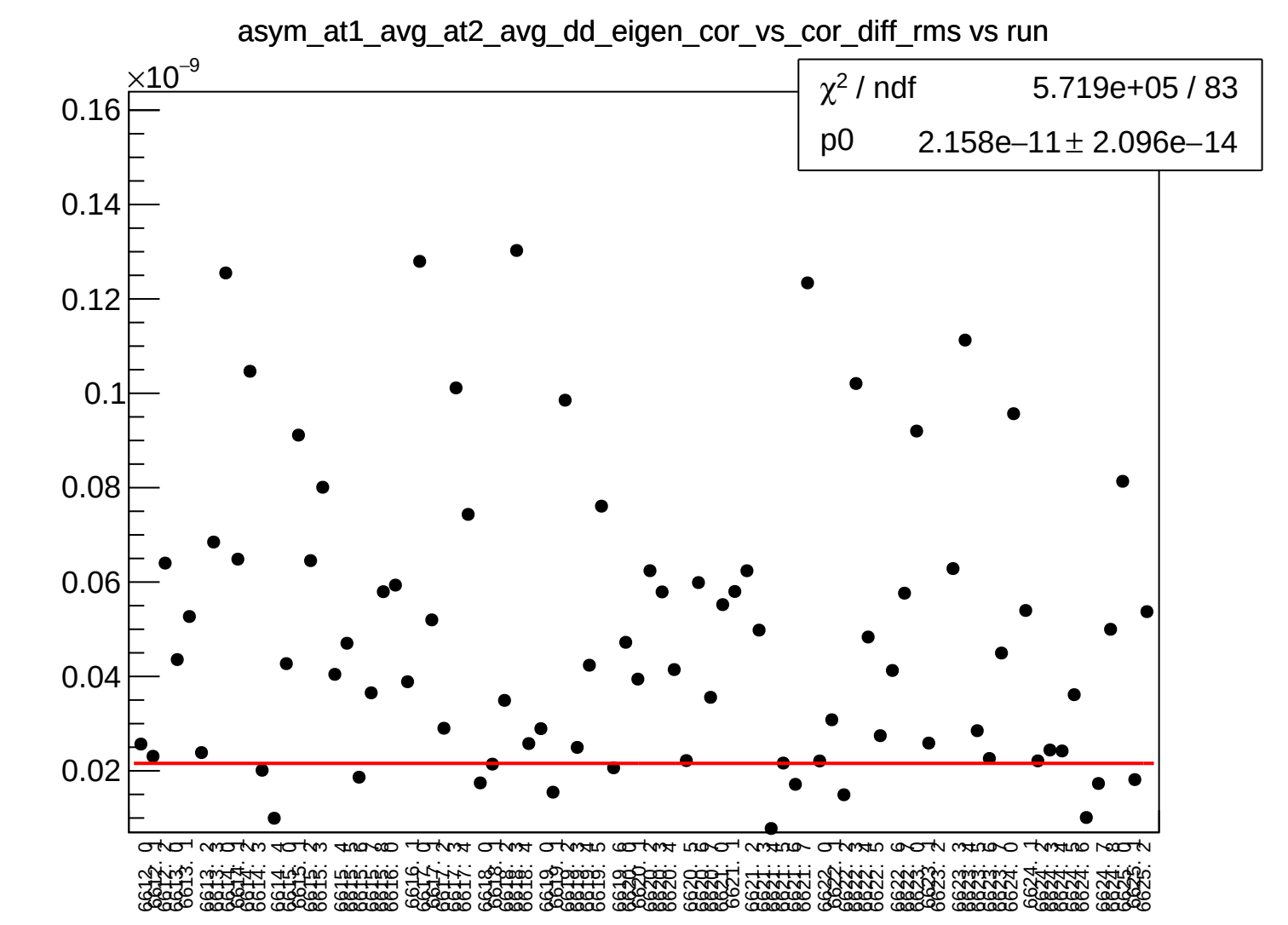

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 127.7 / 83
p0 1537 ± 1.203
1600
1580
1560
1540
1520
1500

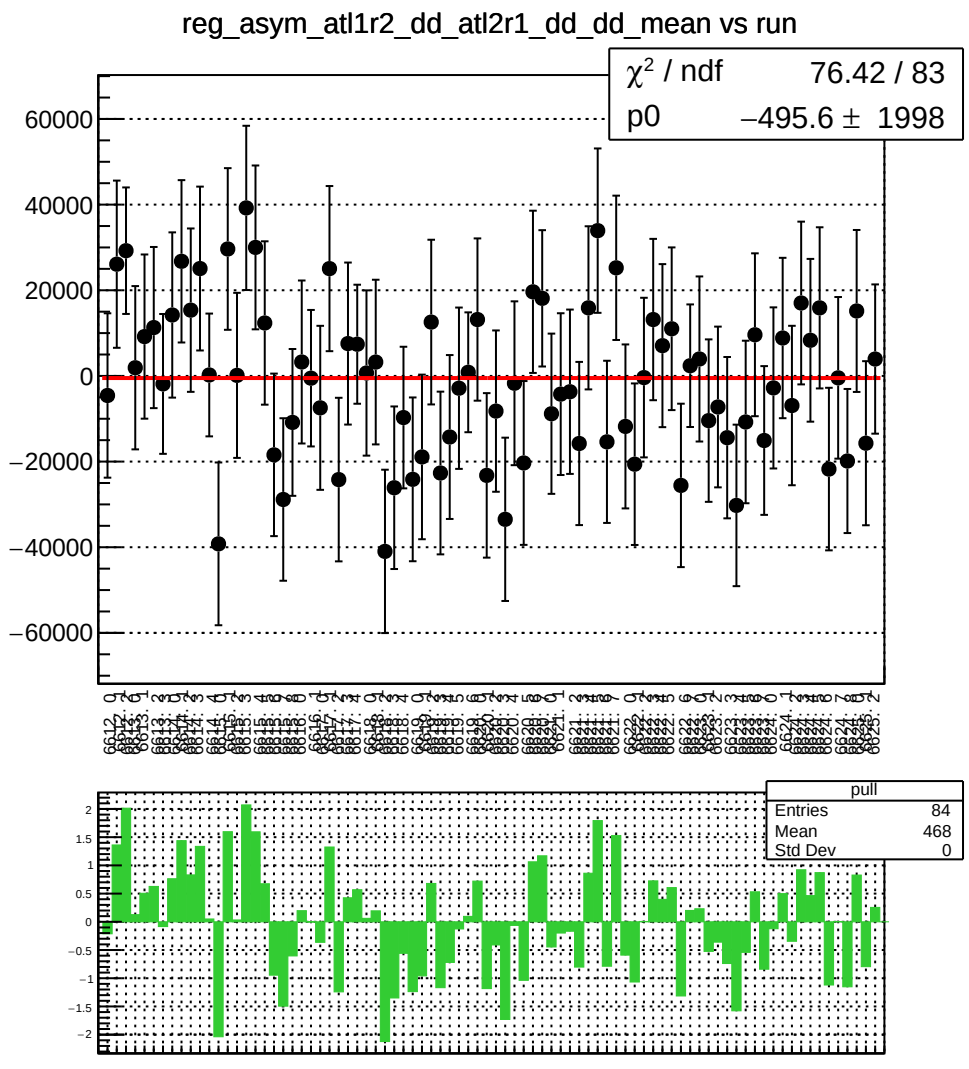

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.58 / 83
p0 −0.5406 ± 1.701
pull
Entries 84
Mean 801
Std Dev 0
pull1D
Entries 84
Mean 0.007339
Std Dev 0.9295

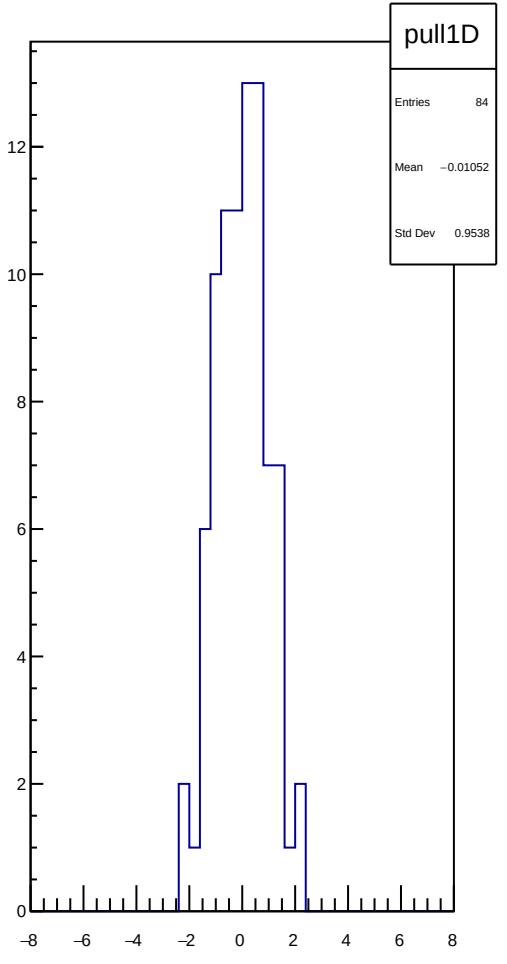

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 127.7 / 83
p0 1537 ± 1.203
1600
1580
1560
1540
1520
1500

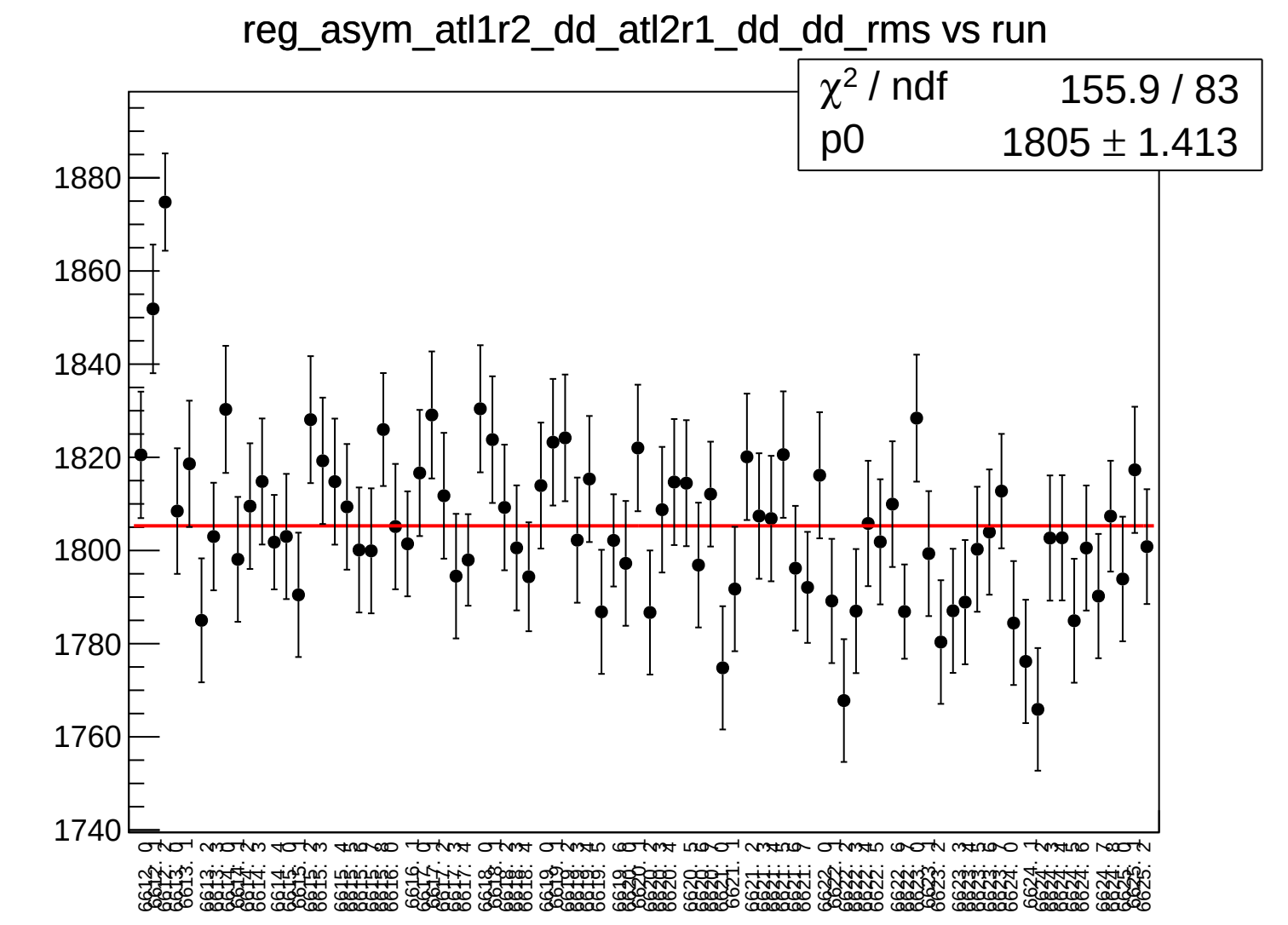

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.2 / 83
p0 3.309e−14 ± 2.964e−14
pull
Entries 84
Mean 126.2
Std Dev 0

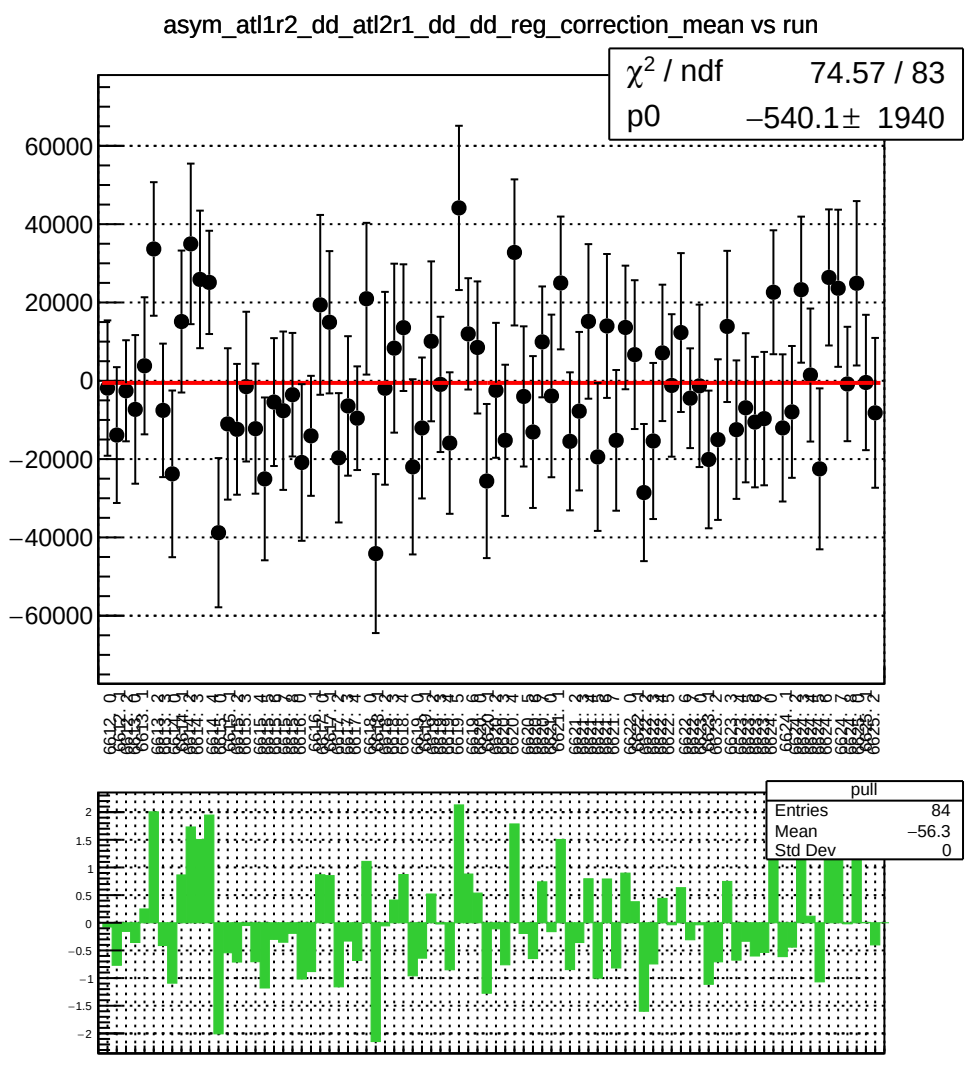

pull1D
Entries 84
Mean 0.01405
Std Dev 0.8943

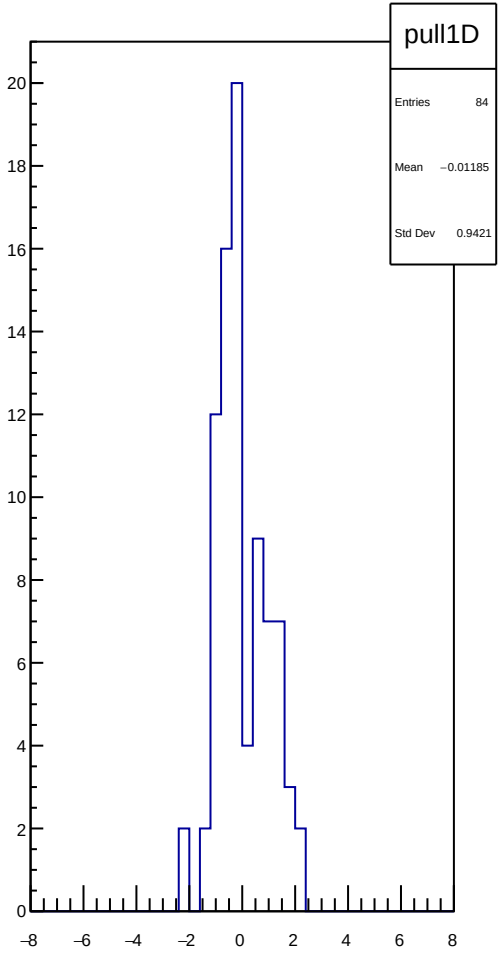

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.719e+05 / 83
p0 2.158e−11 ± 2.096e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

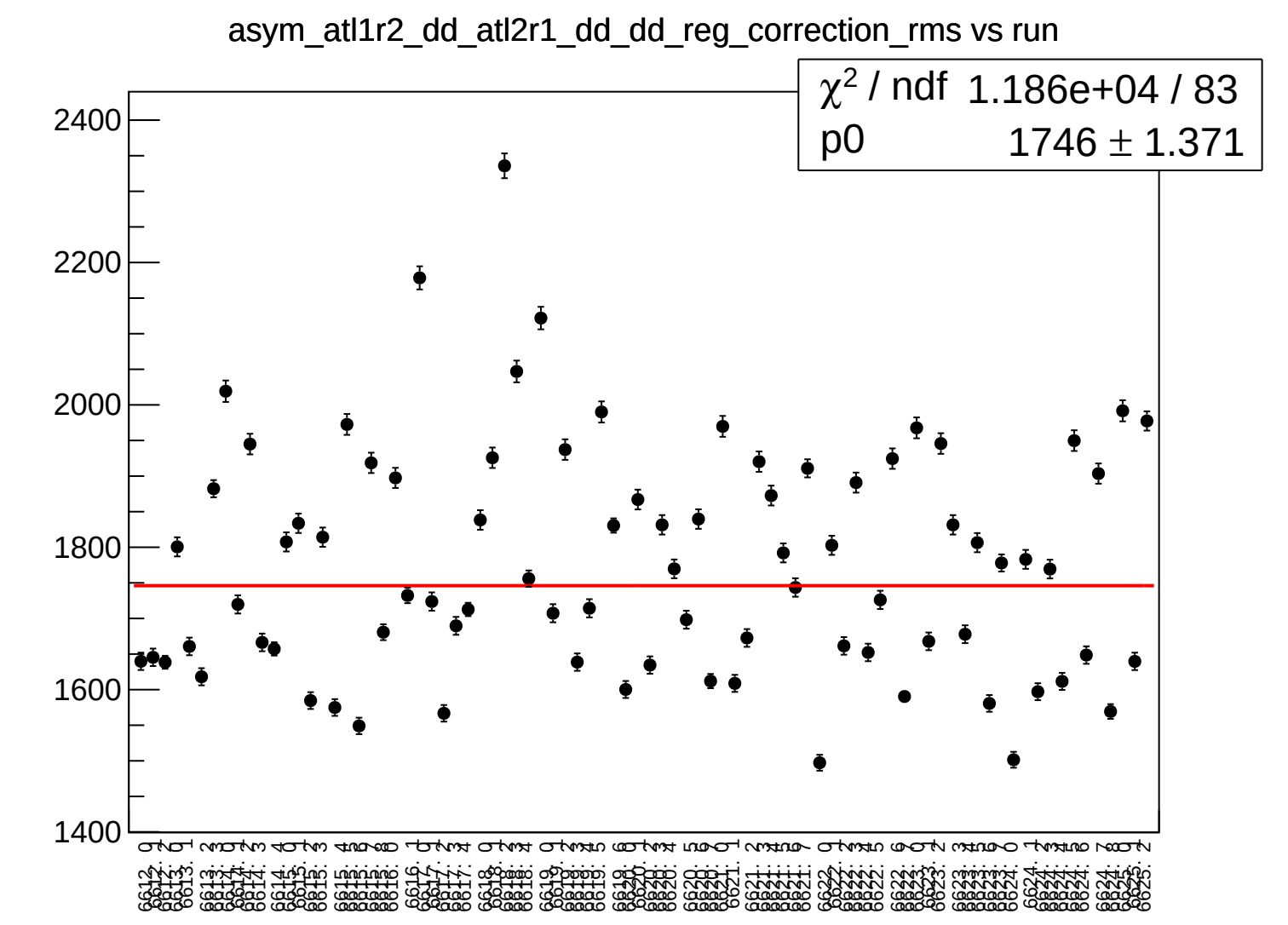

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 76.42 / 83
p0 −495.6 ± 1998
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 468
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

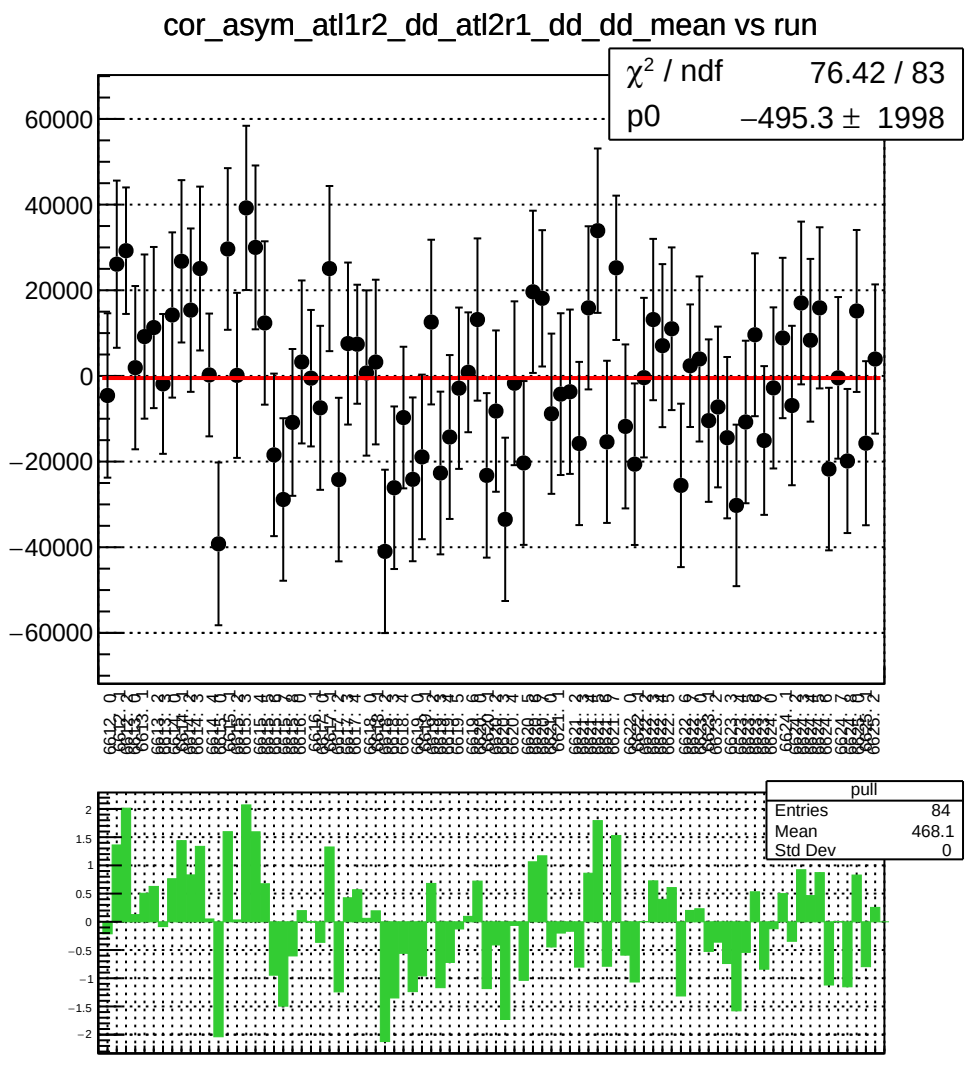

pull1D
Entries 84
Mean −0.01052
Std Dev 0.9538
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

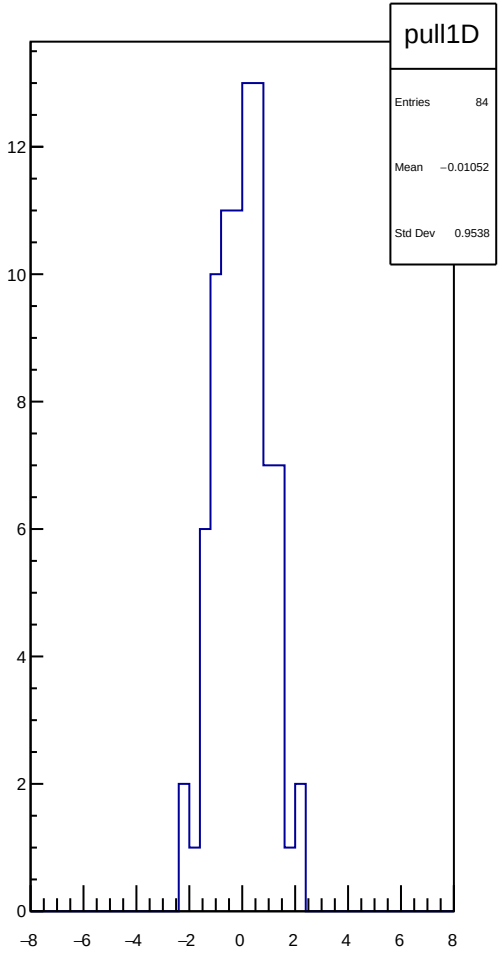

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 155.9 / 83
p0 1805 ± 1.413
1880
1860
1840
1820
1800
1780
1760
1740

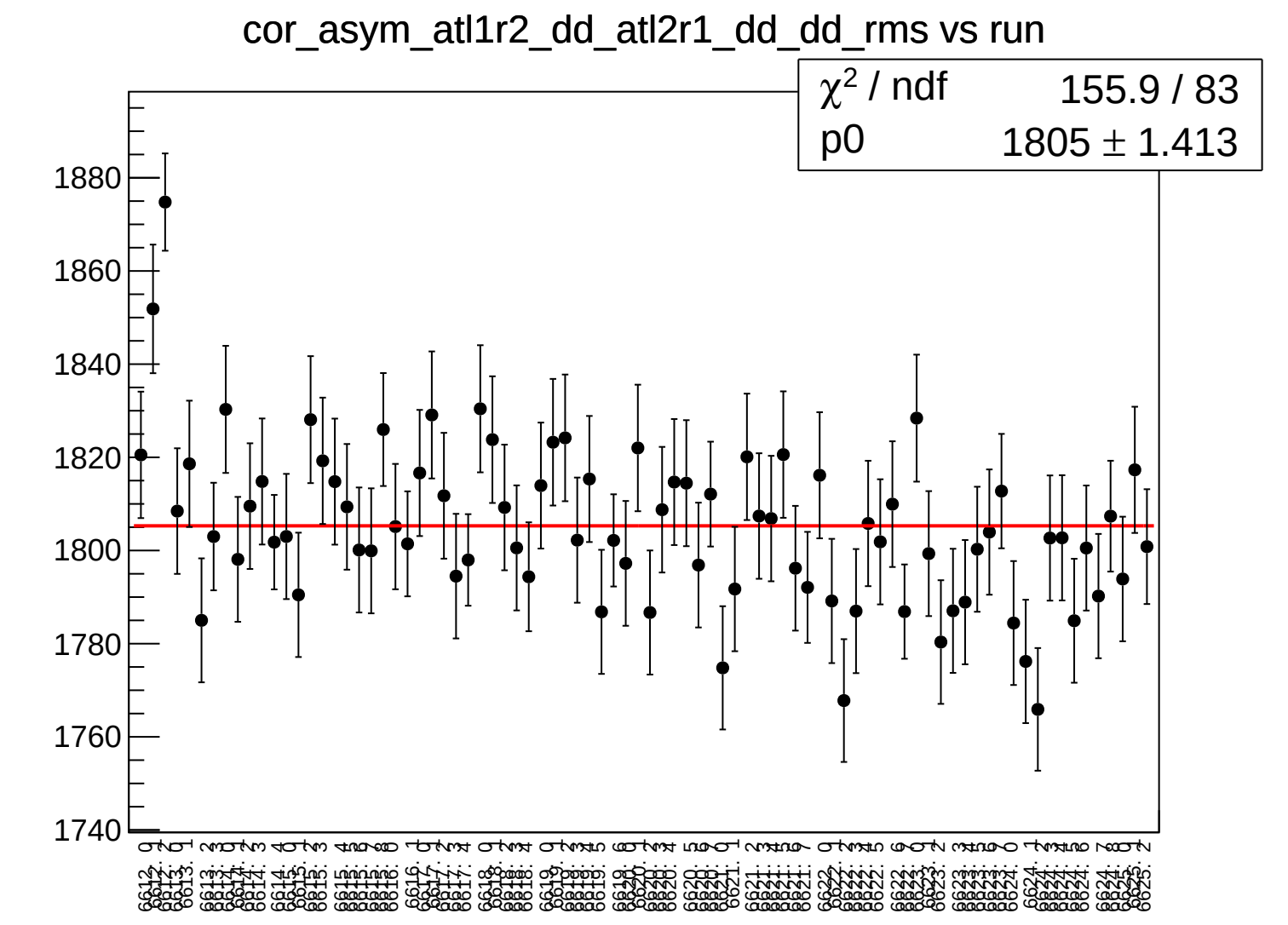

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
χ² / ndf 74.57 / 83
p0 −540.1± 1940
pull
Entries 84
Mean −56.3
Std Dev 0

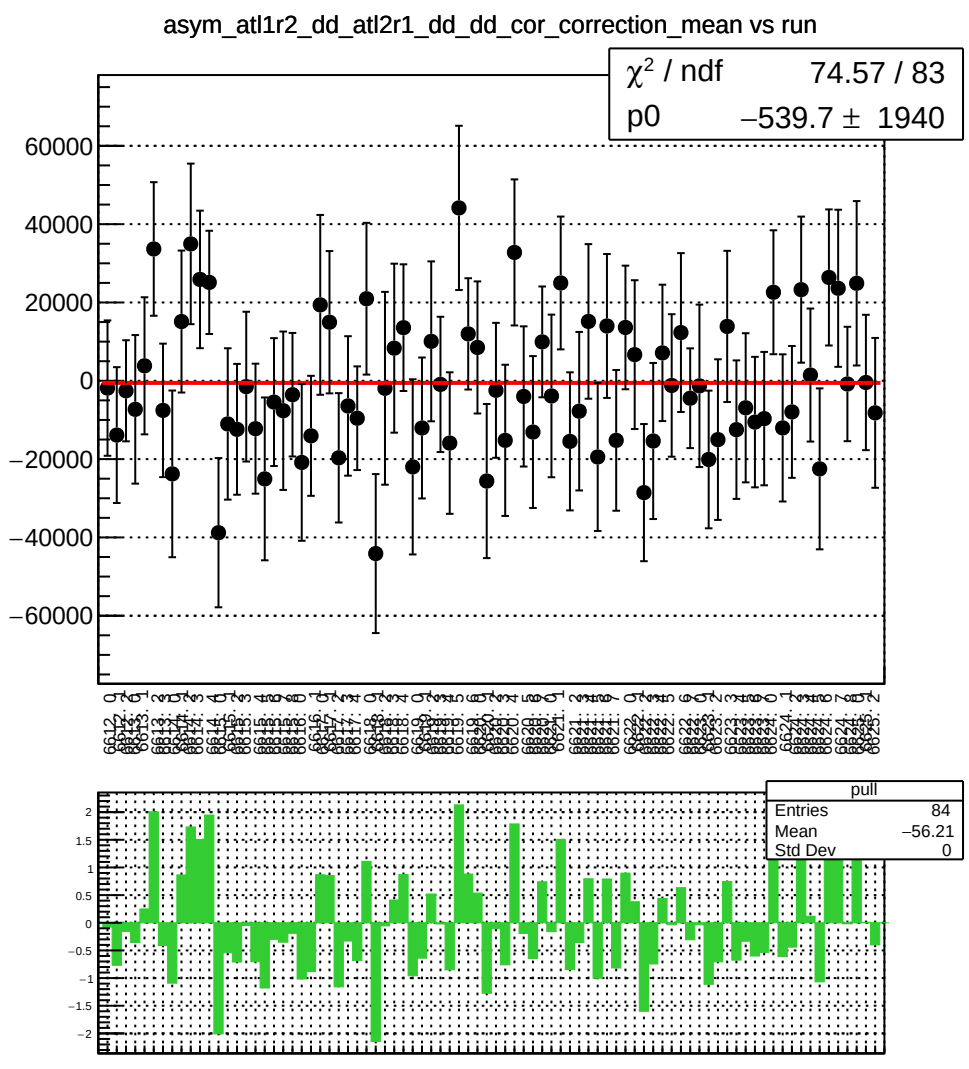

pull1D
Entries 84
Mean −0.01185
Std Dev 0.9421

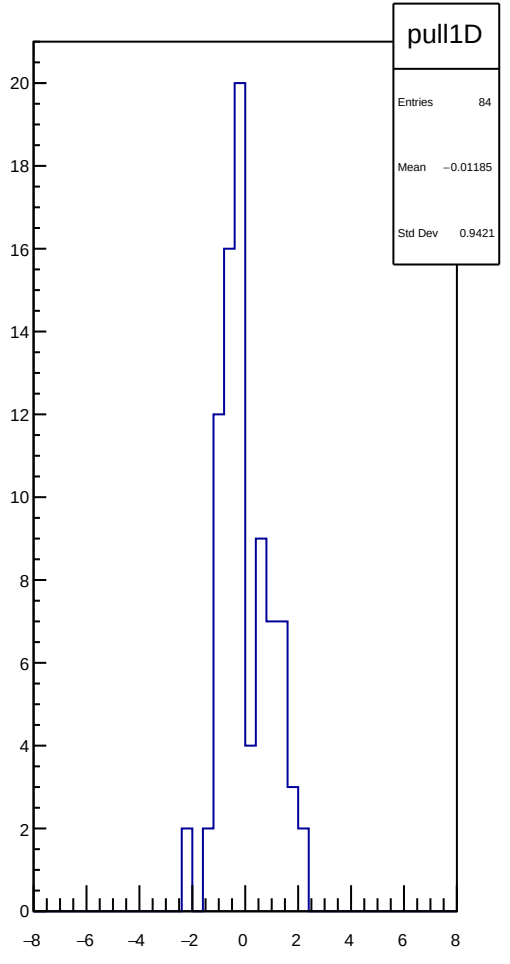

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1.186e+04 / 83
p0 1746 ± 1.371
2400
2200
2000
1800
1600
1400

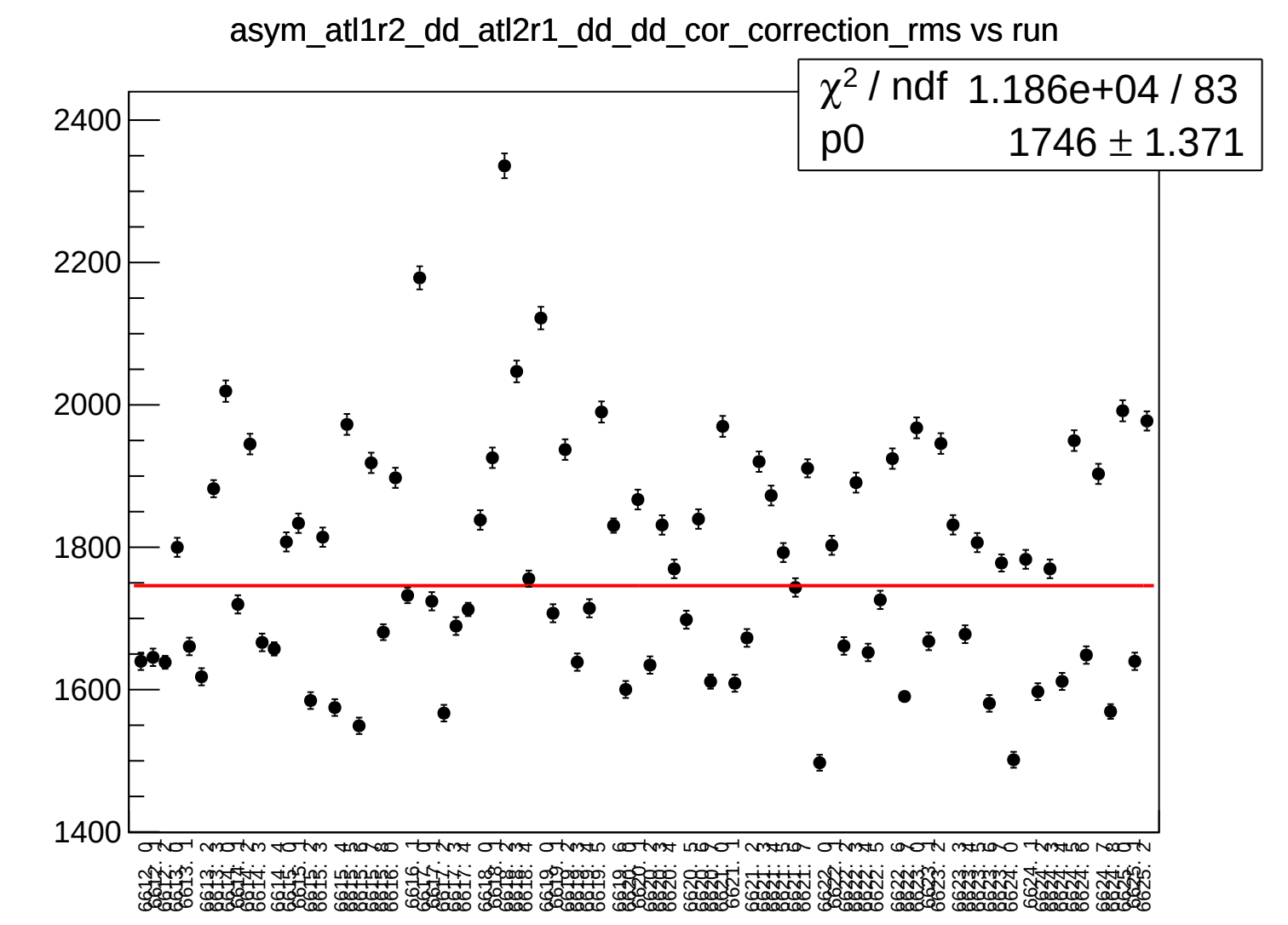

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 76.42 / 83
p0 −495.3 ± 1998
pull
Entries 84
Mean 468.1
Std Dev 0

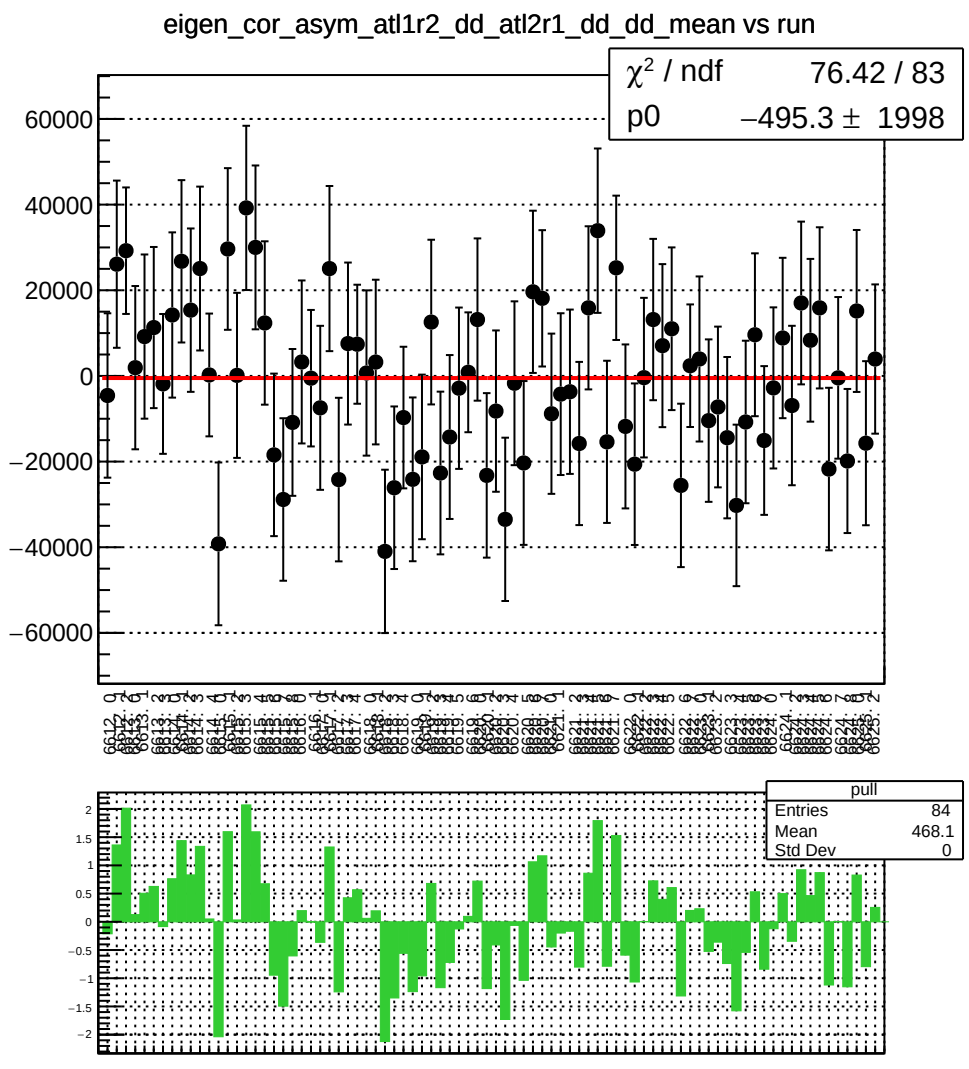

pull1D
Entries 84
Mean −0.01052
Std Dev 0.9538

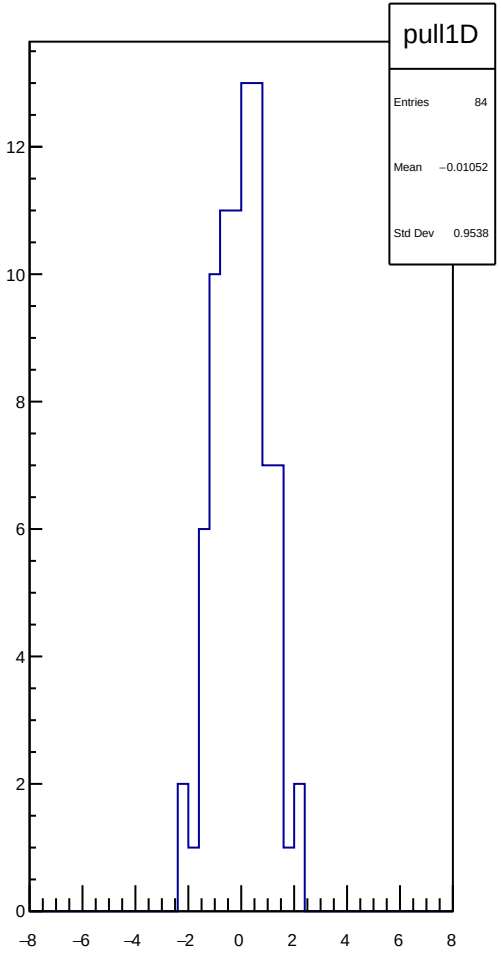

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 155.9 / 83
p0 1805 ± 1.413
1880
1860
1840
1820
1800
1780
1760
1740

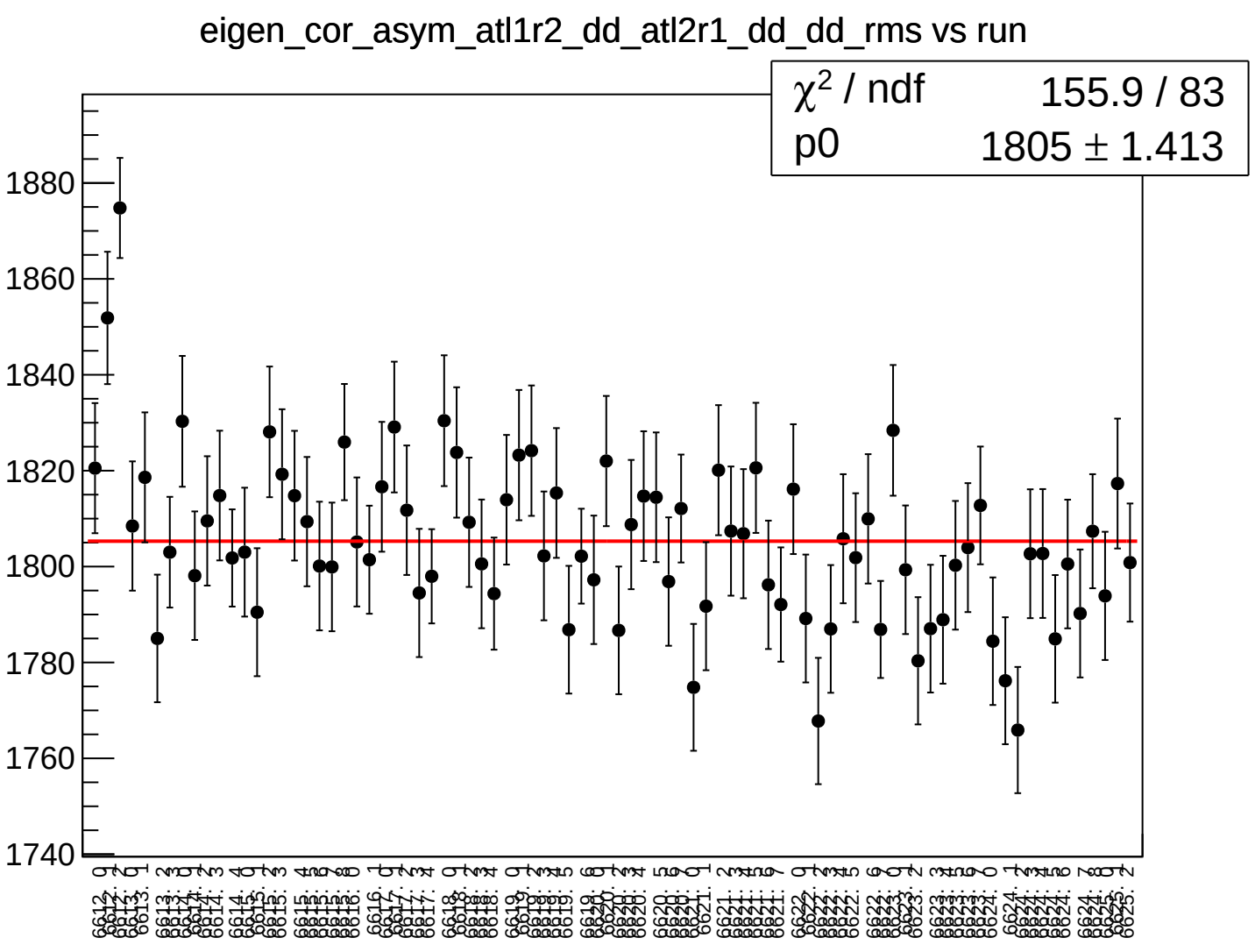

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
χ² / ndf 74.57 / 83
p0 −539.7 ± 1940
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −56.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

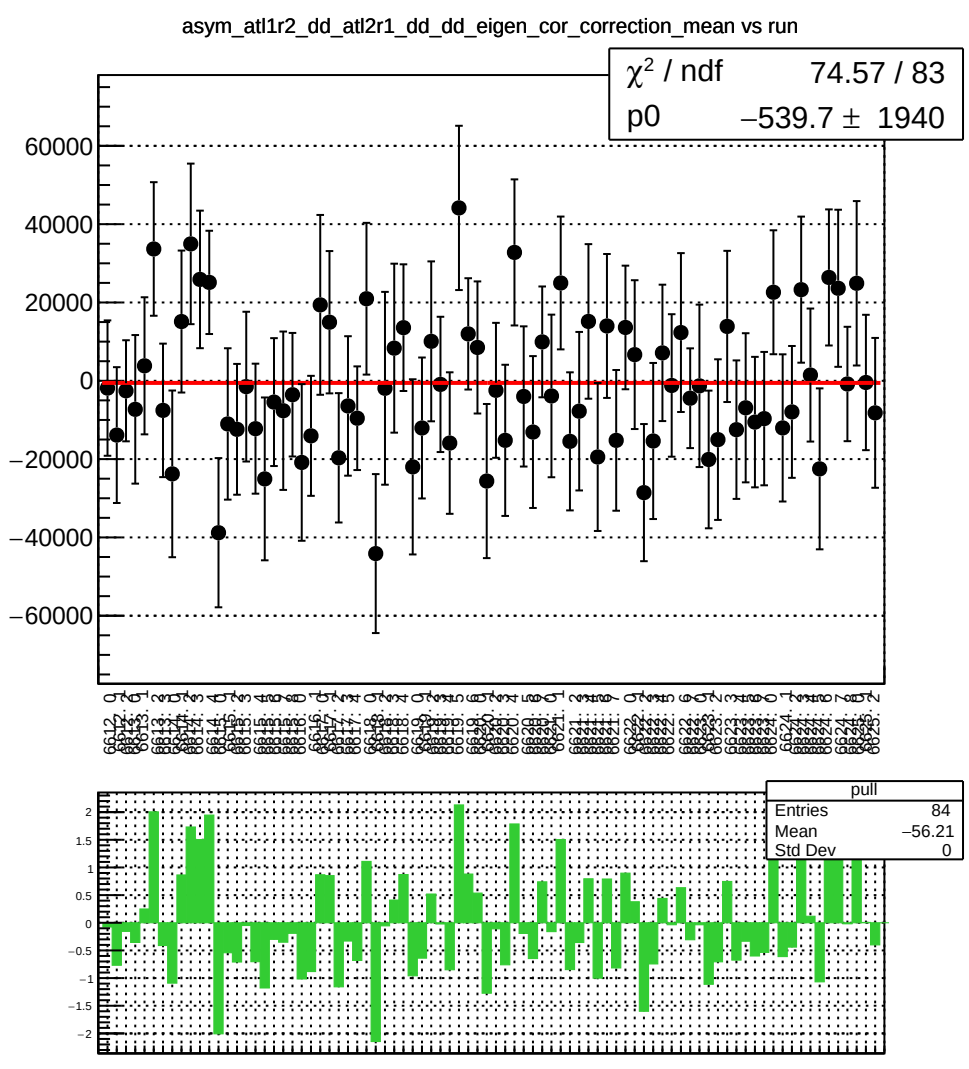

pull1D
Entries 84
Mean −0.01185
Std Dev 0.9421
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

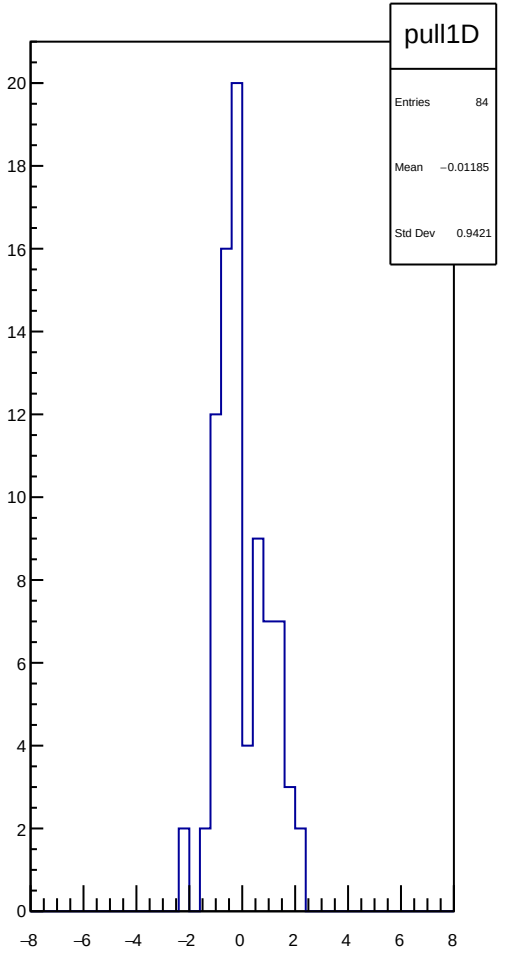

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1.186e+04 / 83
p0 1746 ± 1.371
2400
2200
2000
1800
1600
1400

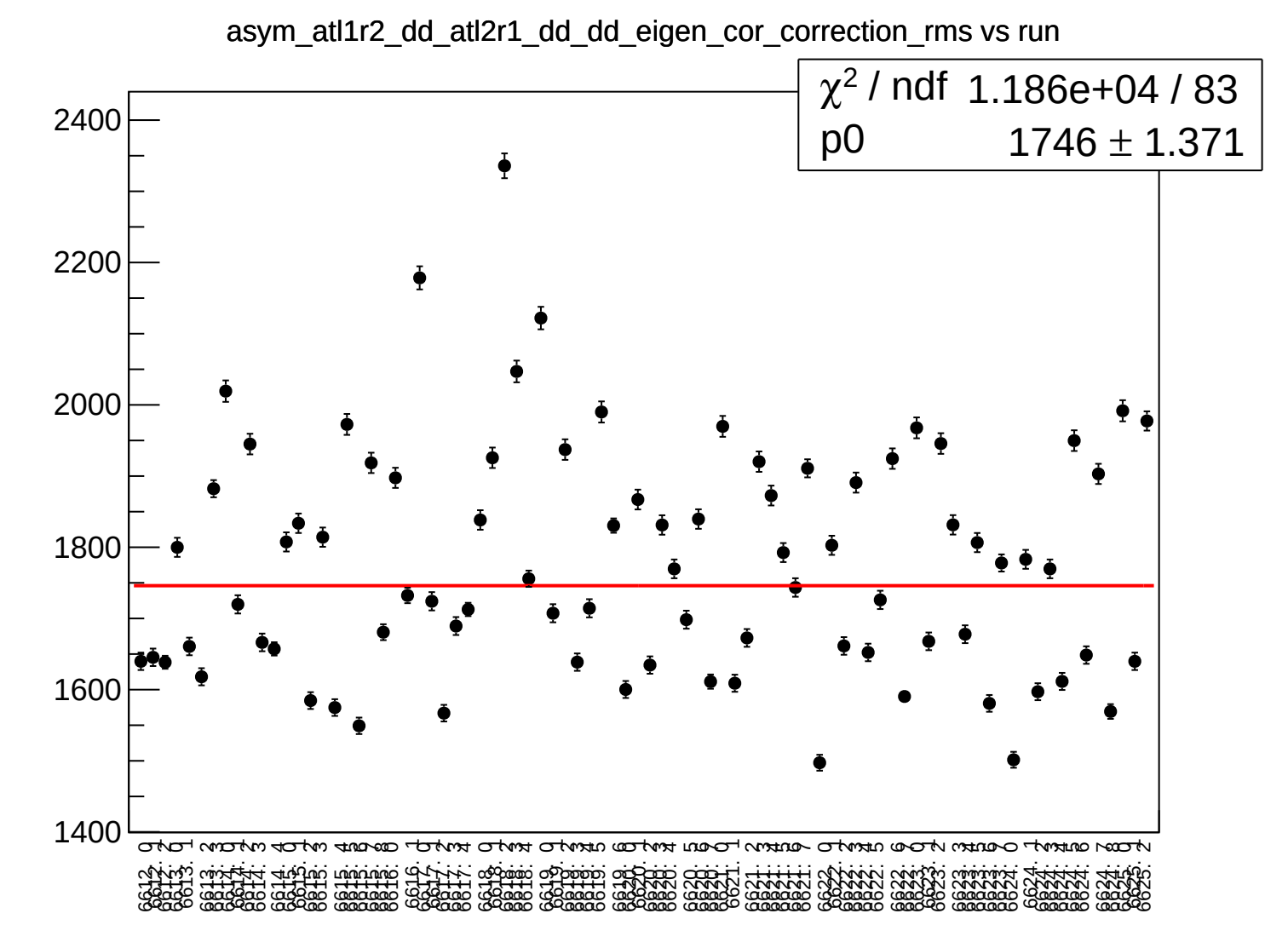

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 76.42 / 83
p0 −495.3 ± 1998
pull
Entries 84
Mean 468.1
Std Dev 0

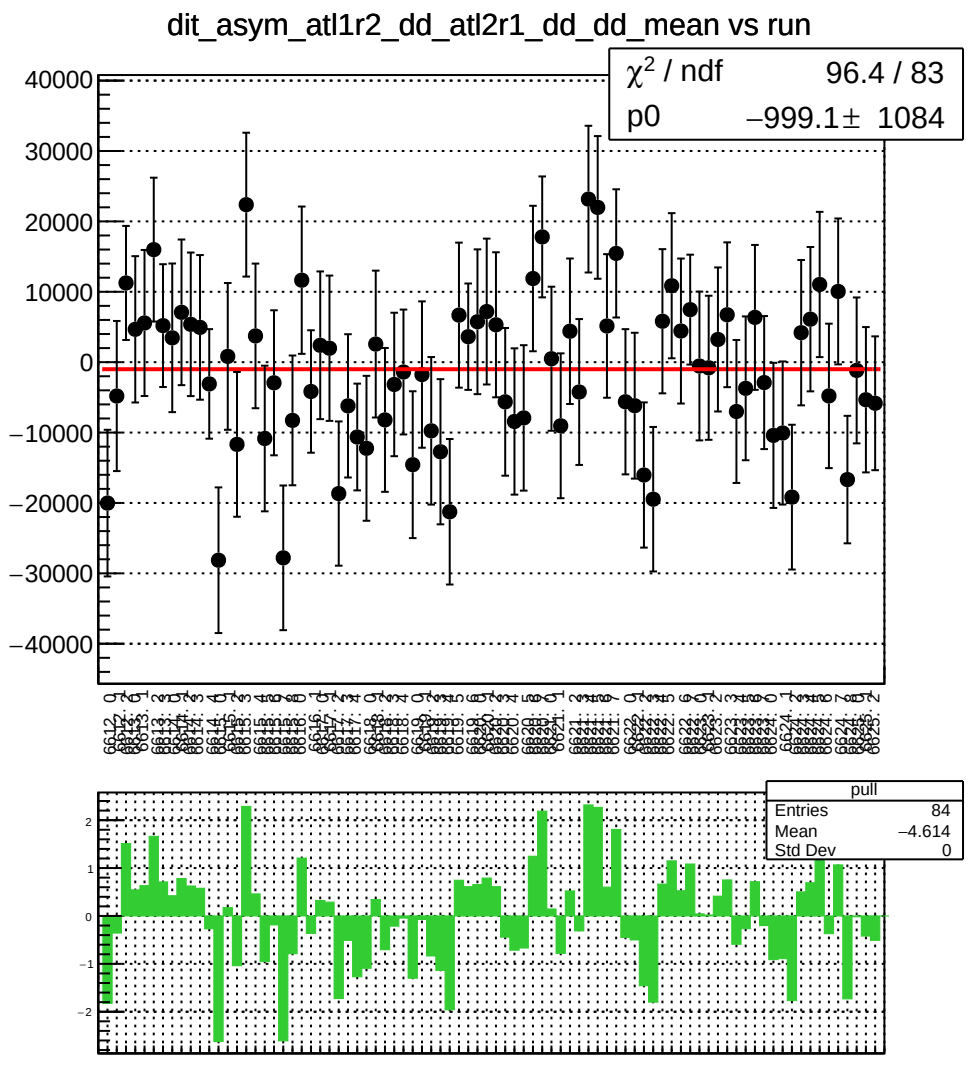

pull1D
Entries 84
Mean −0.01052
Std Dev 0.9538

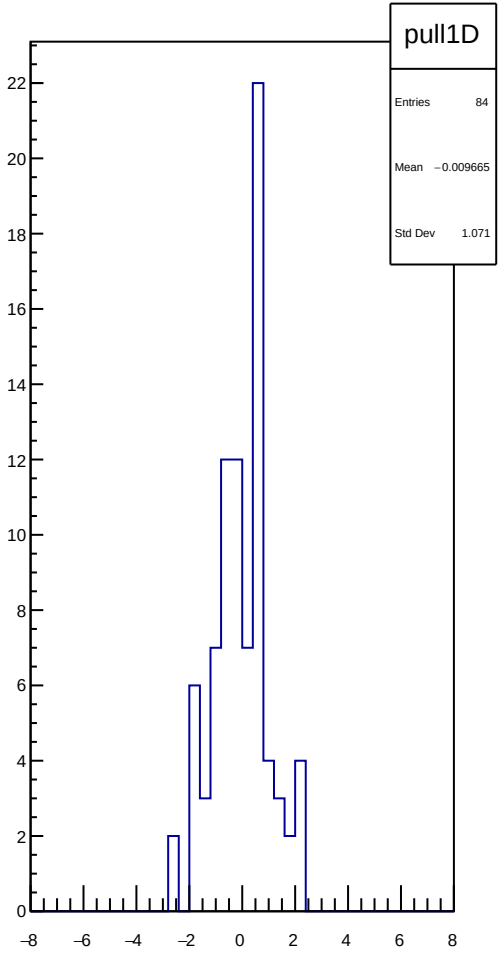

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 155.9 / 83
p0 1805 ± 1.413
1880
1860
1840
1820
1800
1780
1760
1740

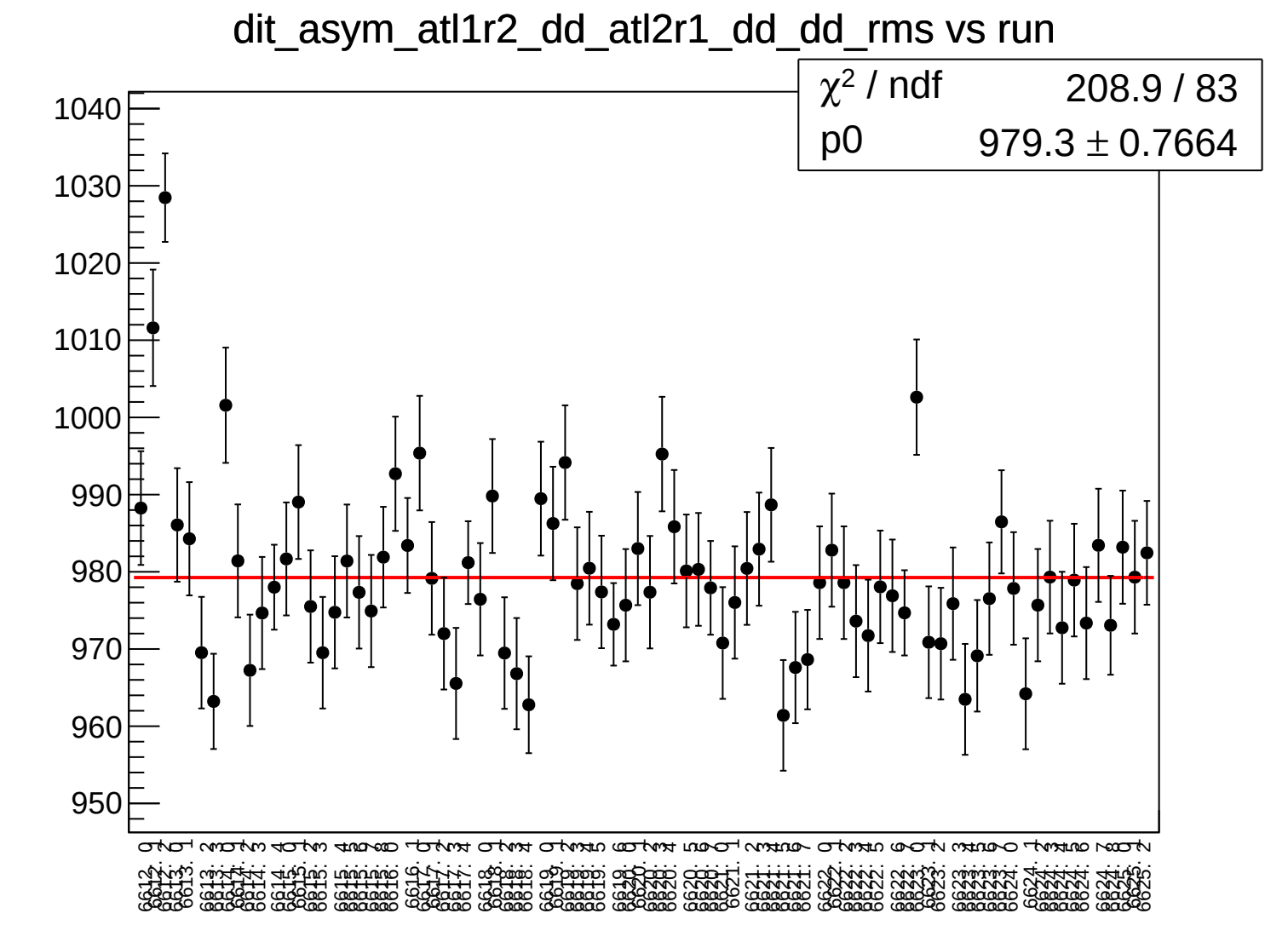

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.57 / 83
p0 −539.7 ± 1940
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −56.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

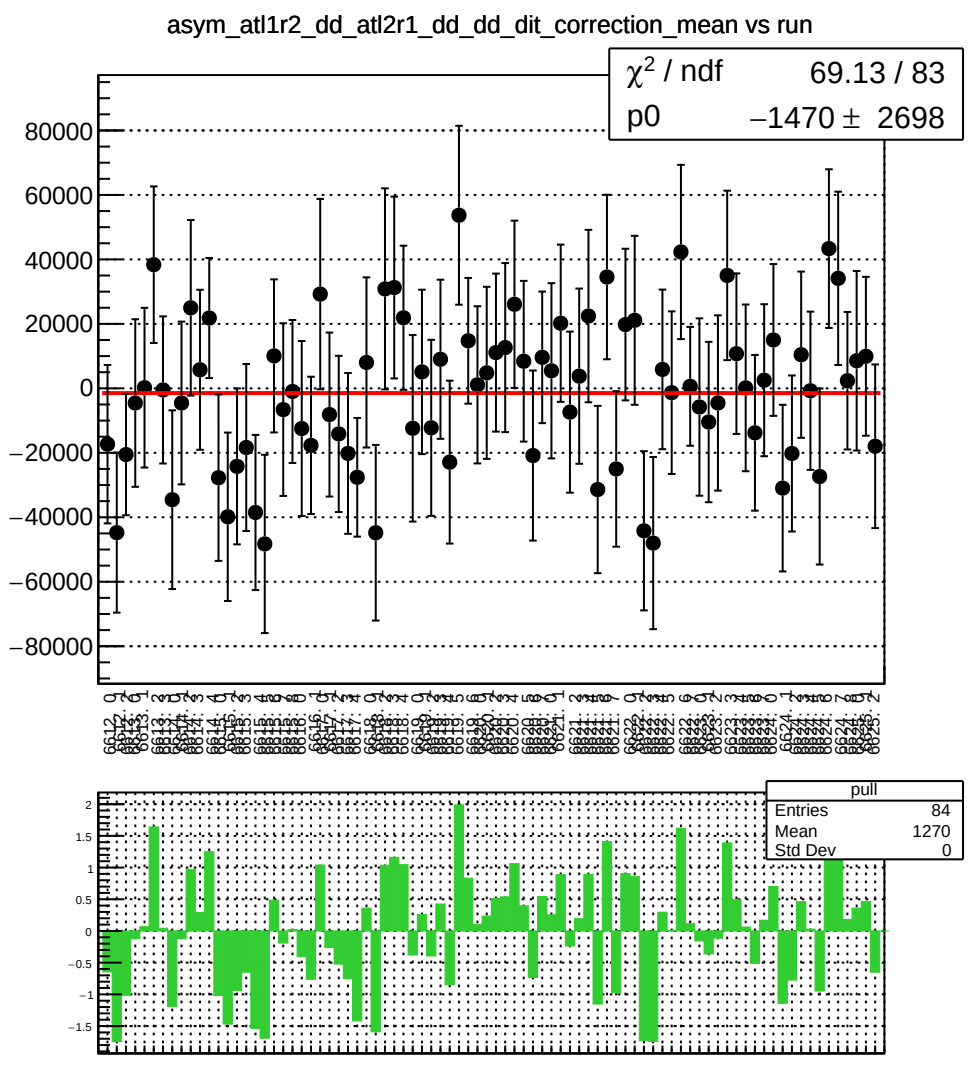

pull1D
Entries 84
Mean −0.01185
Std Dev 0.9421
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

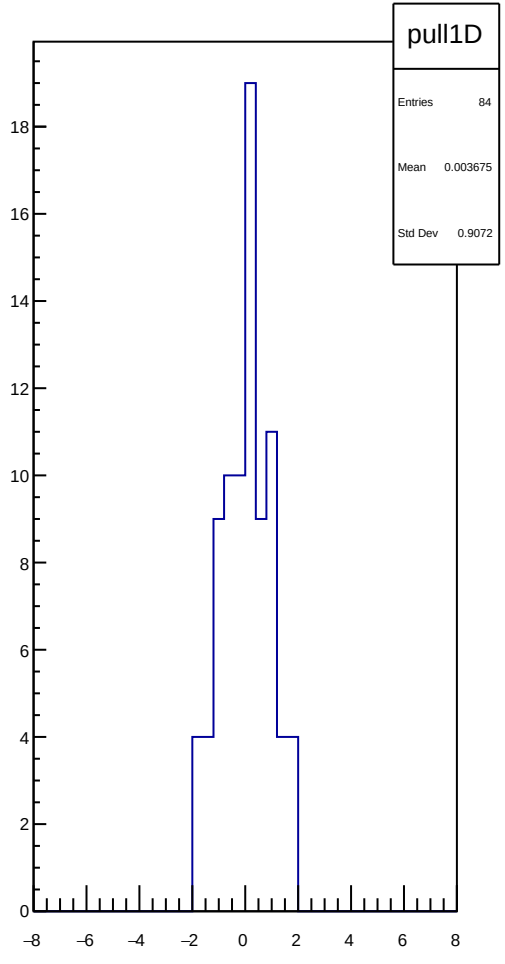

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.186e+04 / 83
p0 1746 ± 1.371
2400
2200
2000
1800
1600
1400

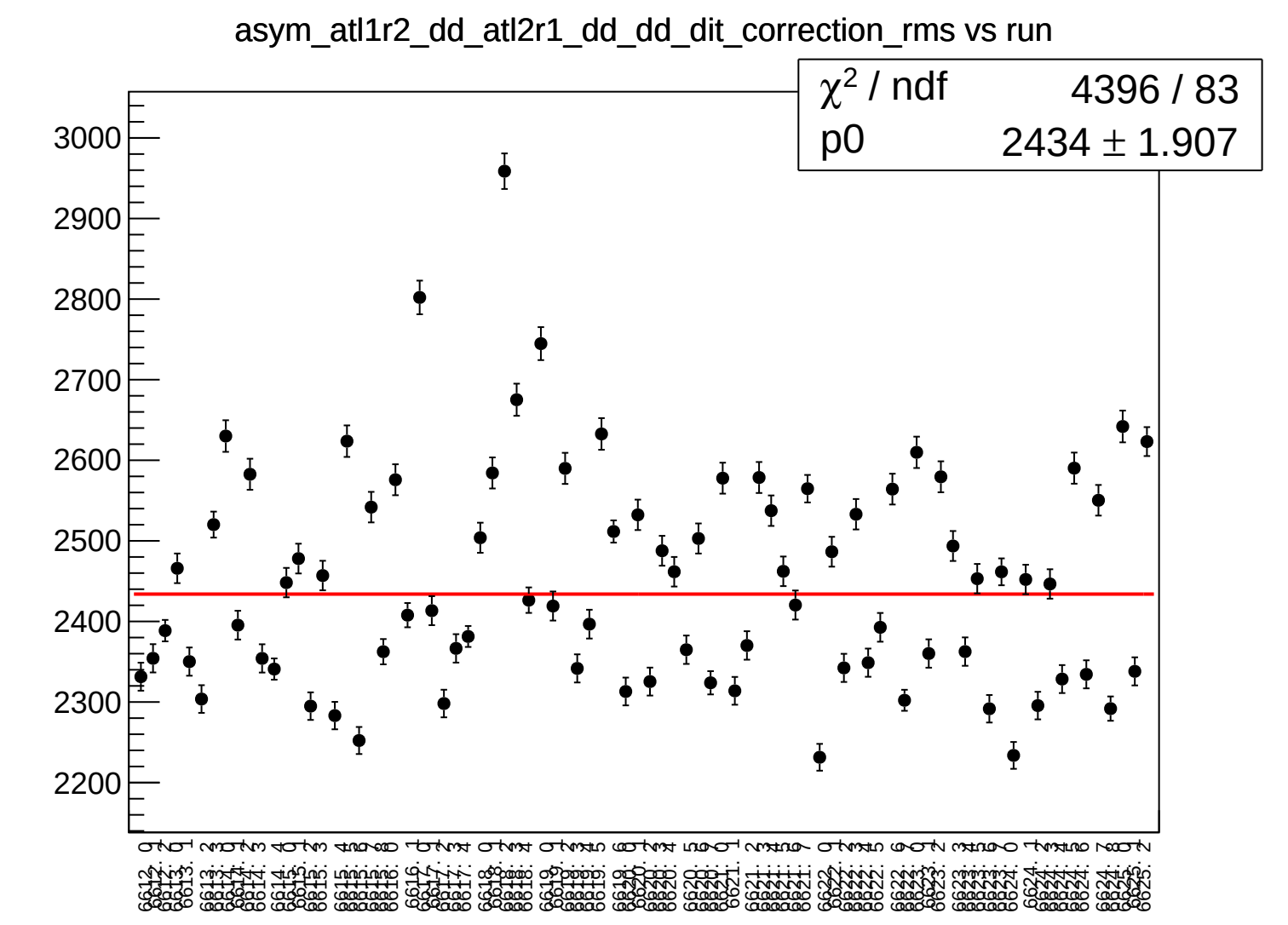

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 96.4 / 83
p0 −999.1± 1084
pull
Entries 84
Mean −4.614
Std Dev 0

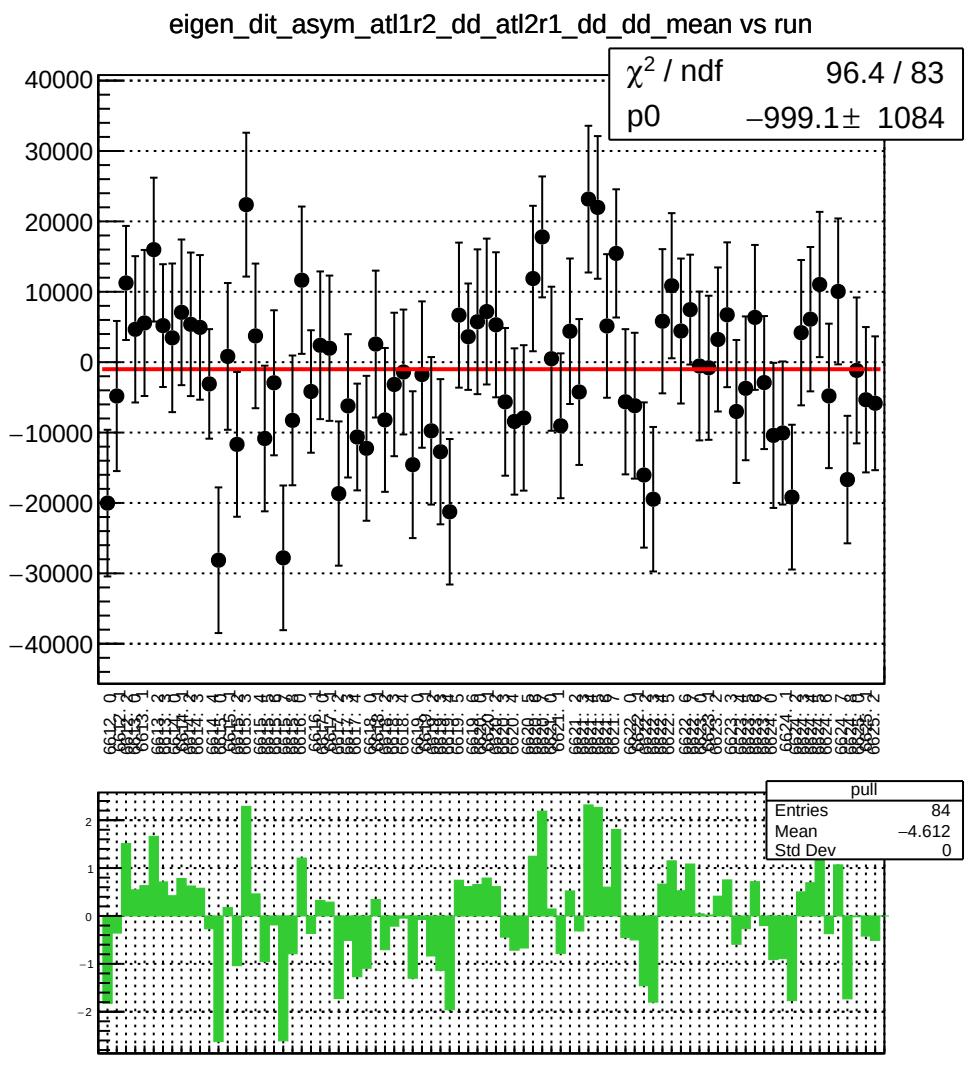

pull1D
Entries 84
Mean −0.009665
Std Dev 1.071

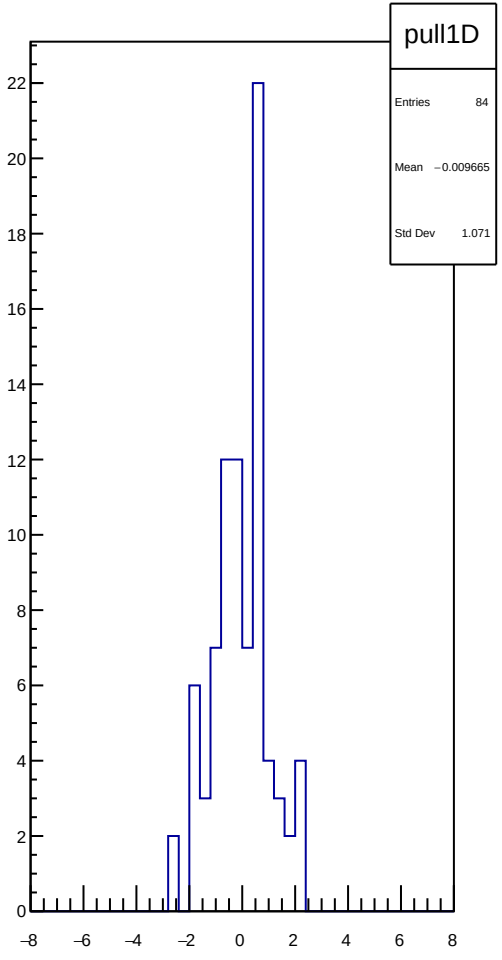

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 208.9 / 83
p0 979.3 ± 0.7664
1040
1030
1020
1010
1000
990
980
970
960
950

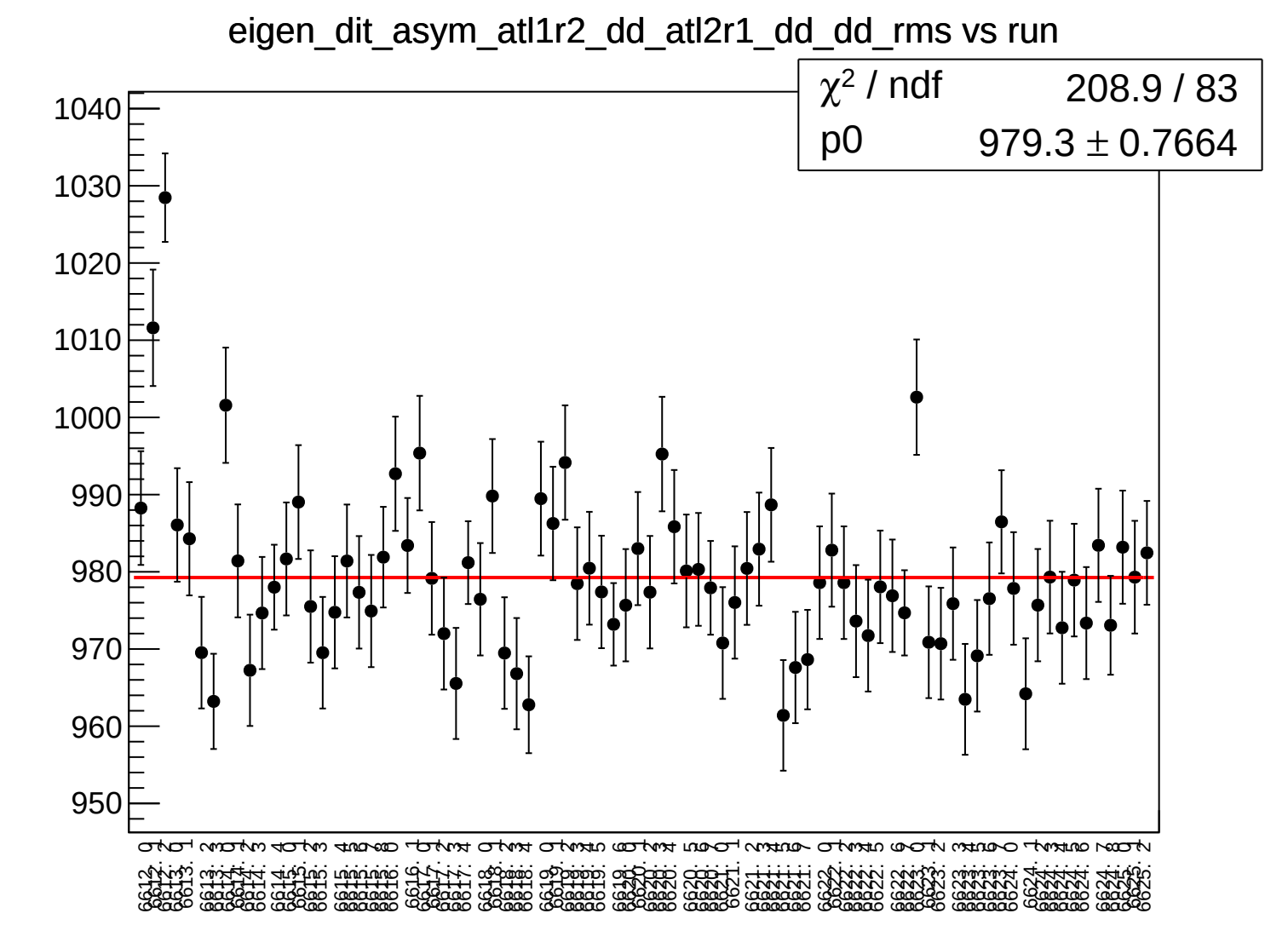

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
χ² / ndf 69.13 / 83
p0 −1470 ± 2698
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 1270
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

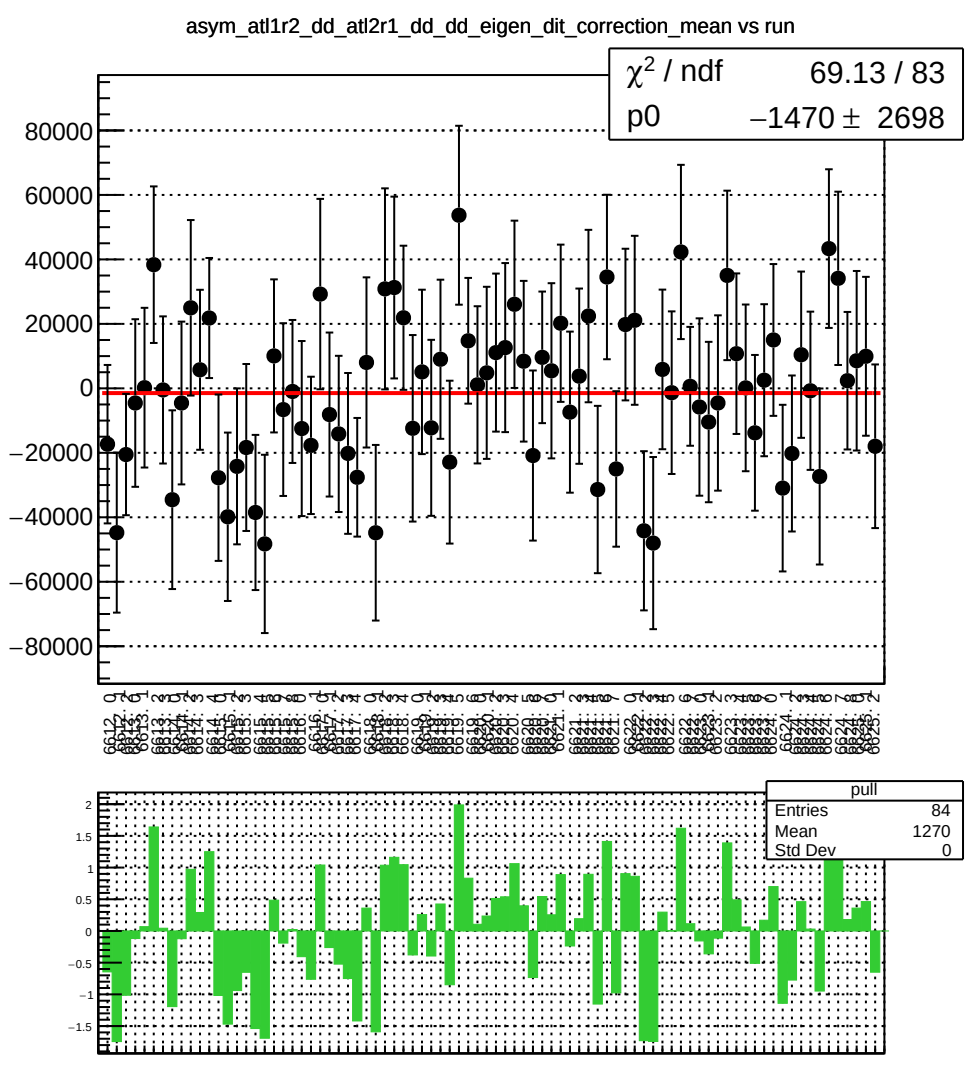

pull1D
Entries 84
Mean 0.003675
Std Dev 0.9072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

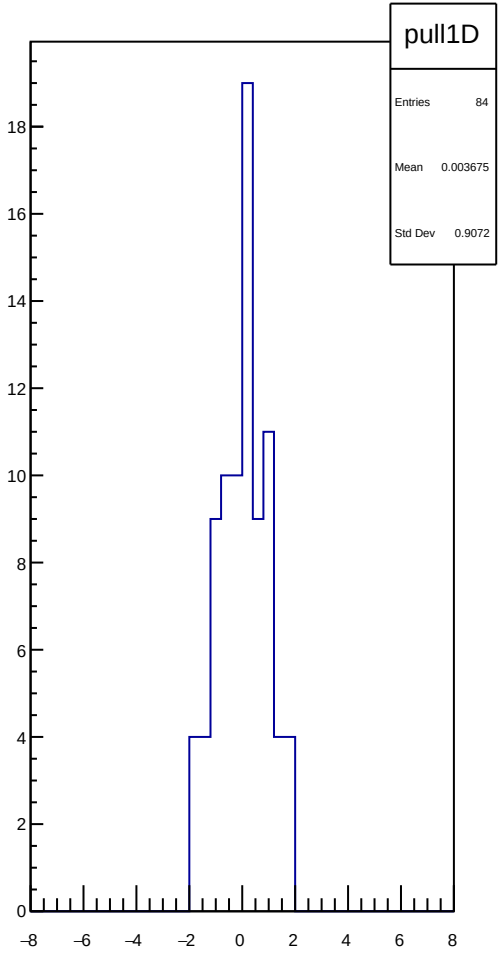

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 4396 / 83
p0 2434 ± 1.907
3000
2900
2800
2700
2600
2500
2400
2300
2200

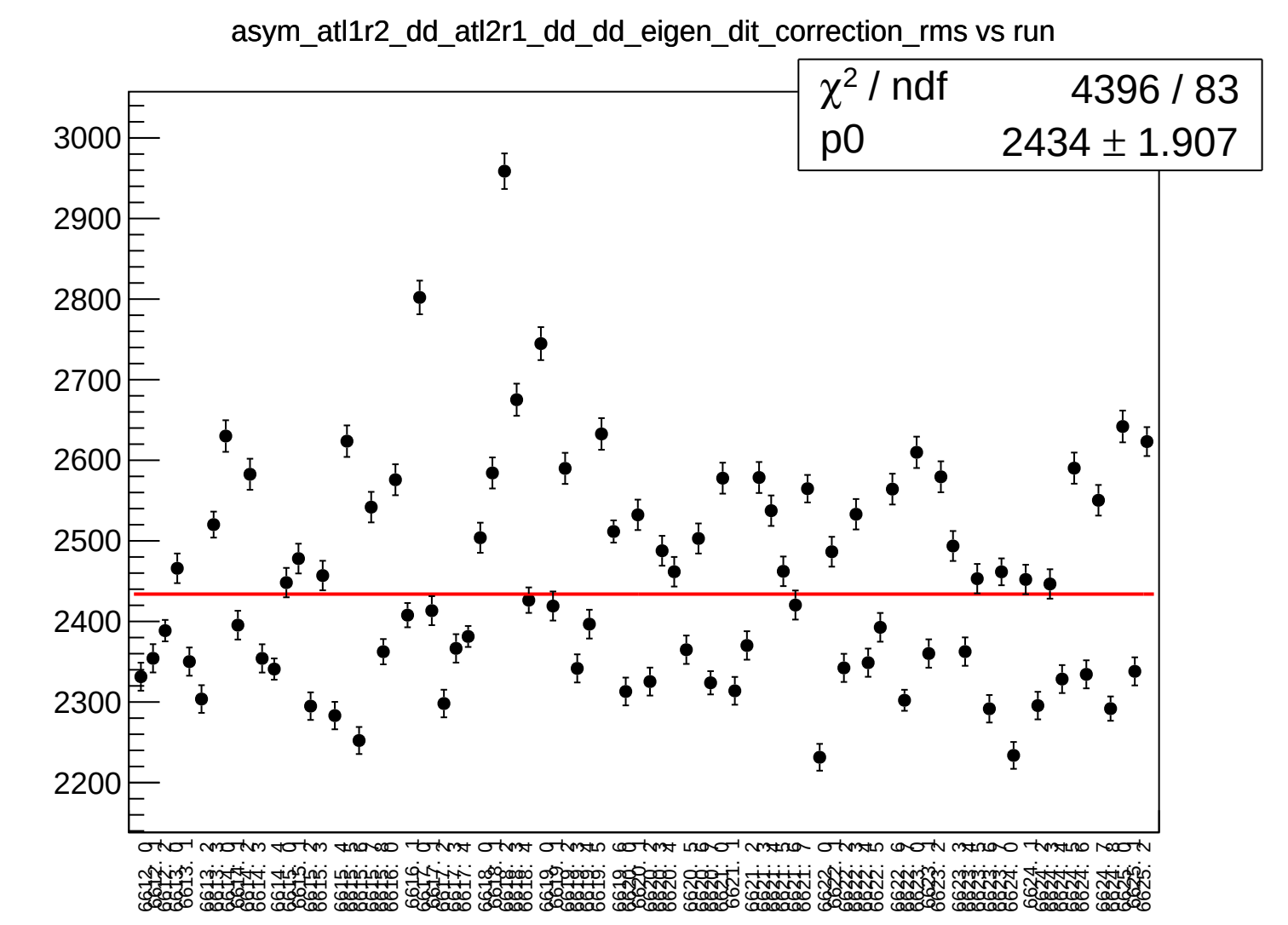

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 96.4 / 83
p0 −999.1± 1084
pull
Entries 84
Mean −4.612
Std Dev 0

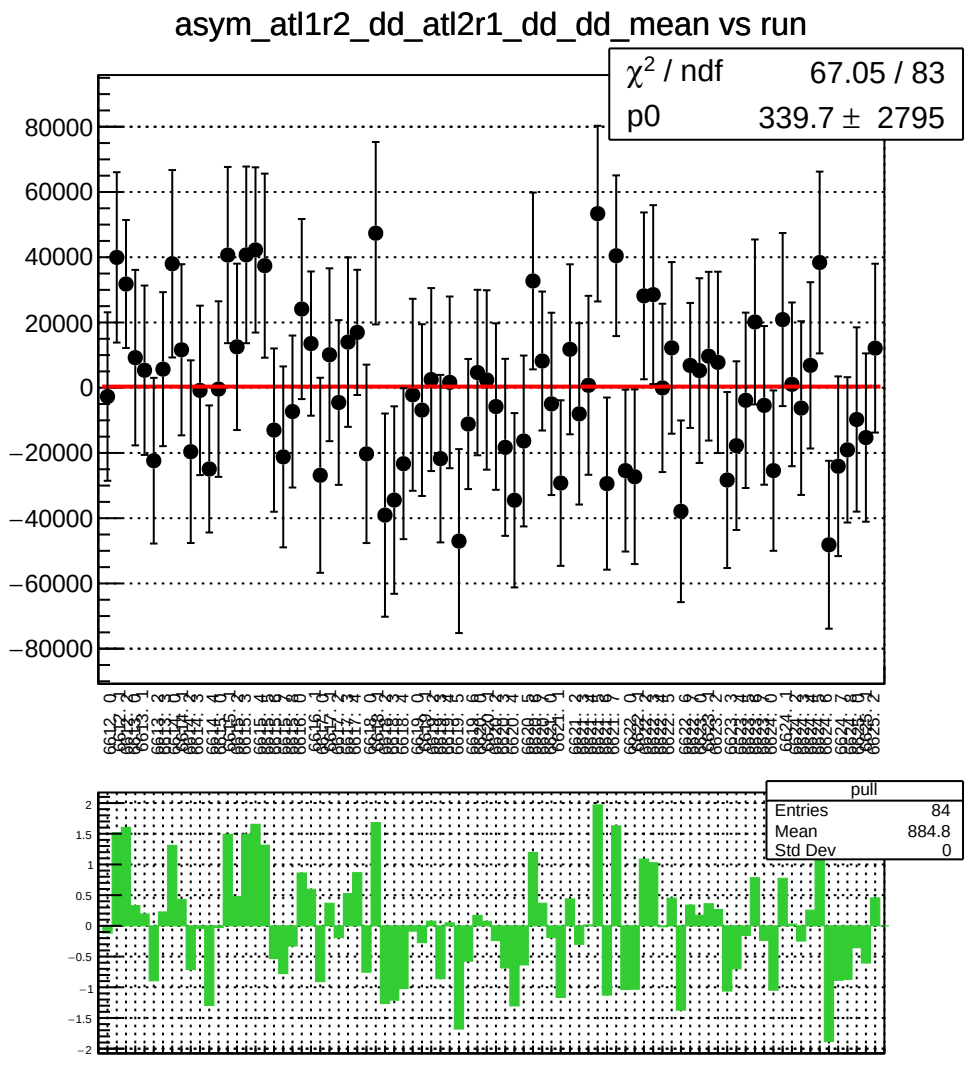

pull1D
Entries 84
Mean −0.009665
Std Dev 1.071

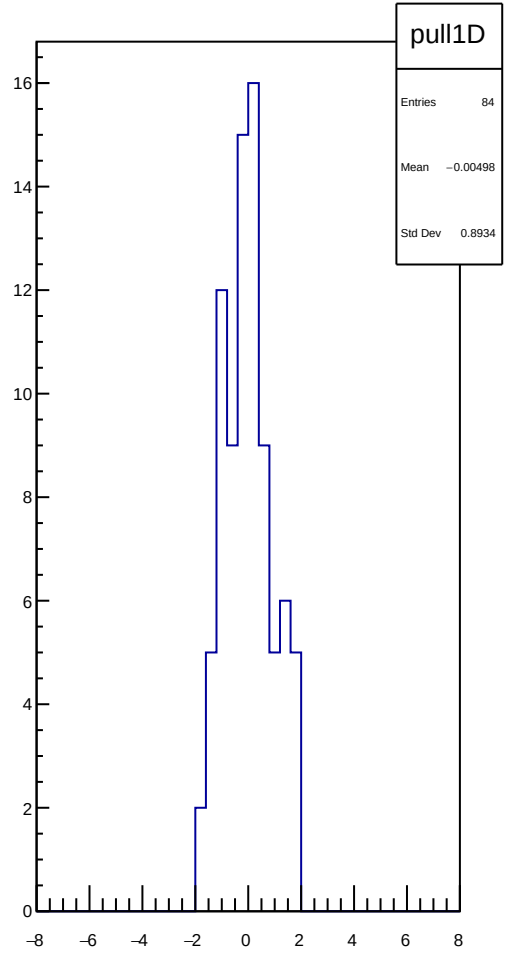

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 208.9 / 83
p0 979.3 ± 0.7664
1040
1030
1020
1010
1000
990
980
970
960
950

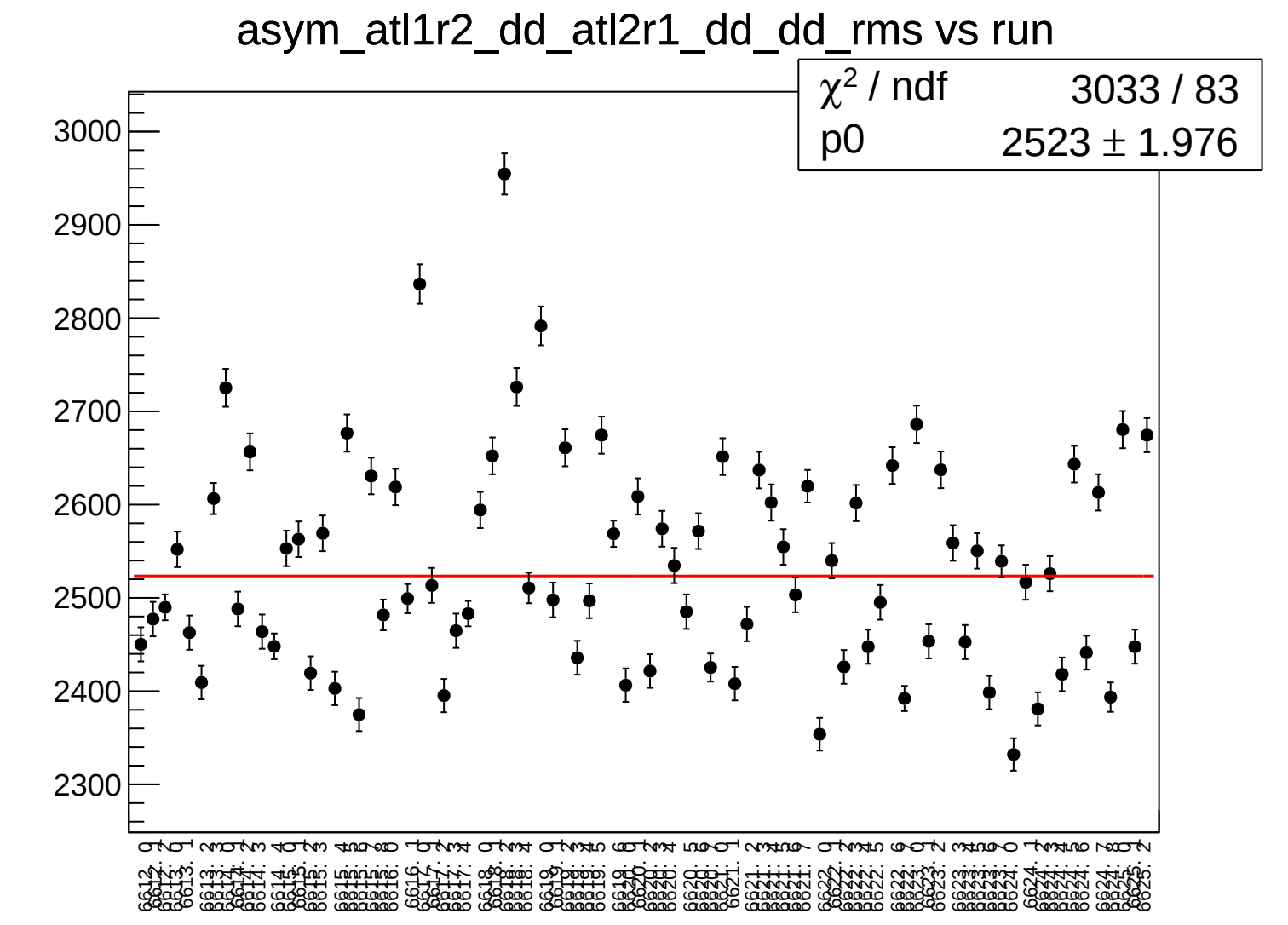

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.13 / 83
p0 −1470 ± 2698
pull
Entries 84
Mean 1270
Std Dev 0

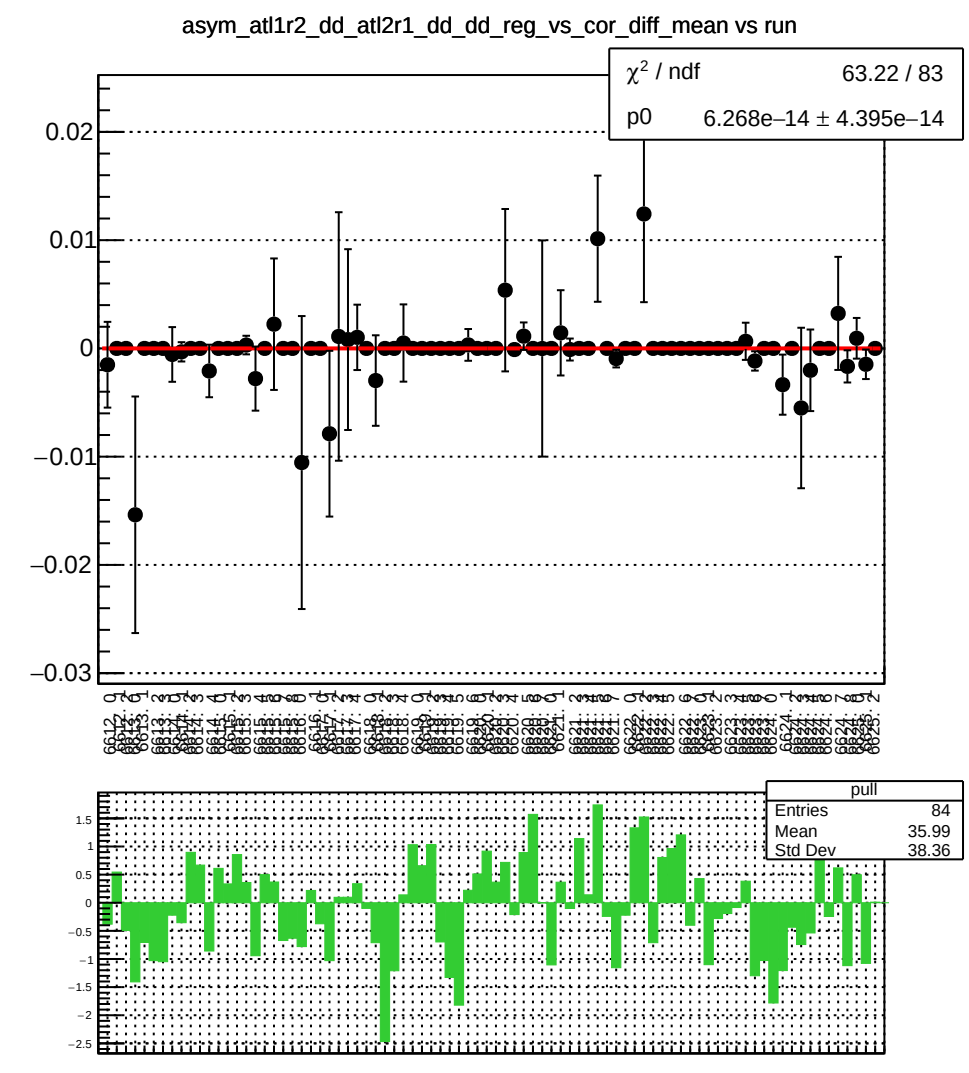

pull1D
Entries 84
Mean 0.003675
Std Dev 0.9072

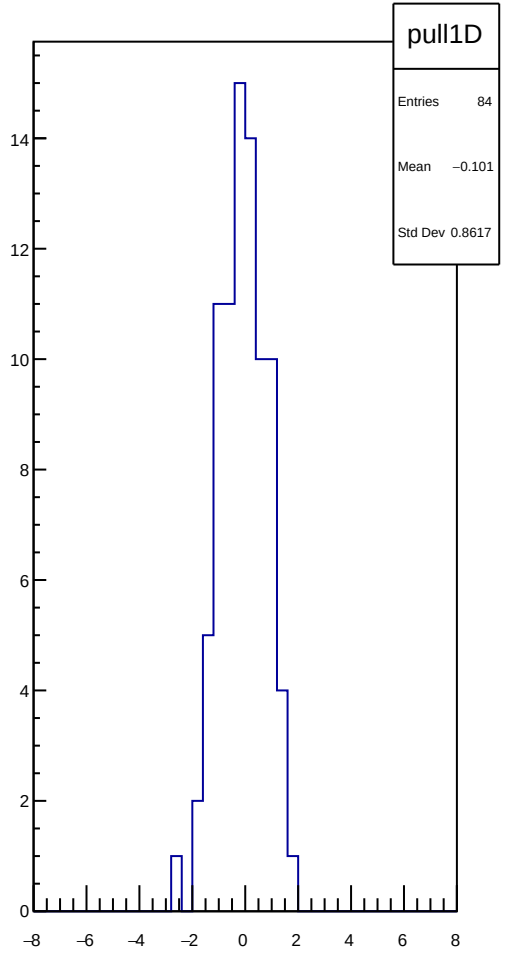

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4396 / 83
p0 2434 ± 1.907
3000
2900
2800
2700
2600
2500
2400
2300
2200

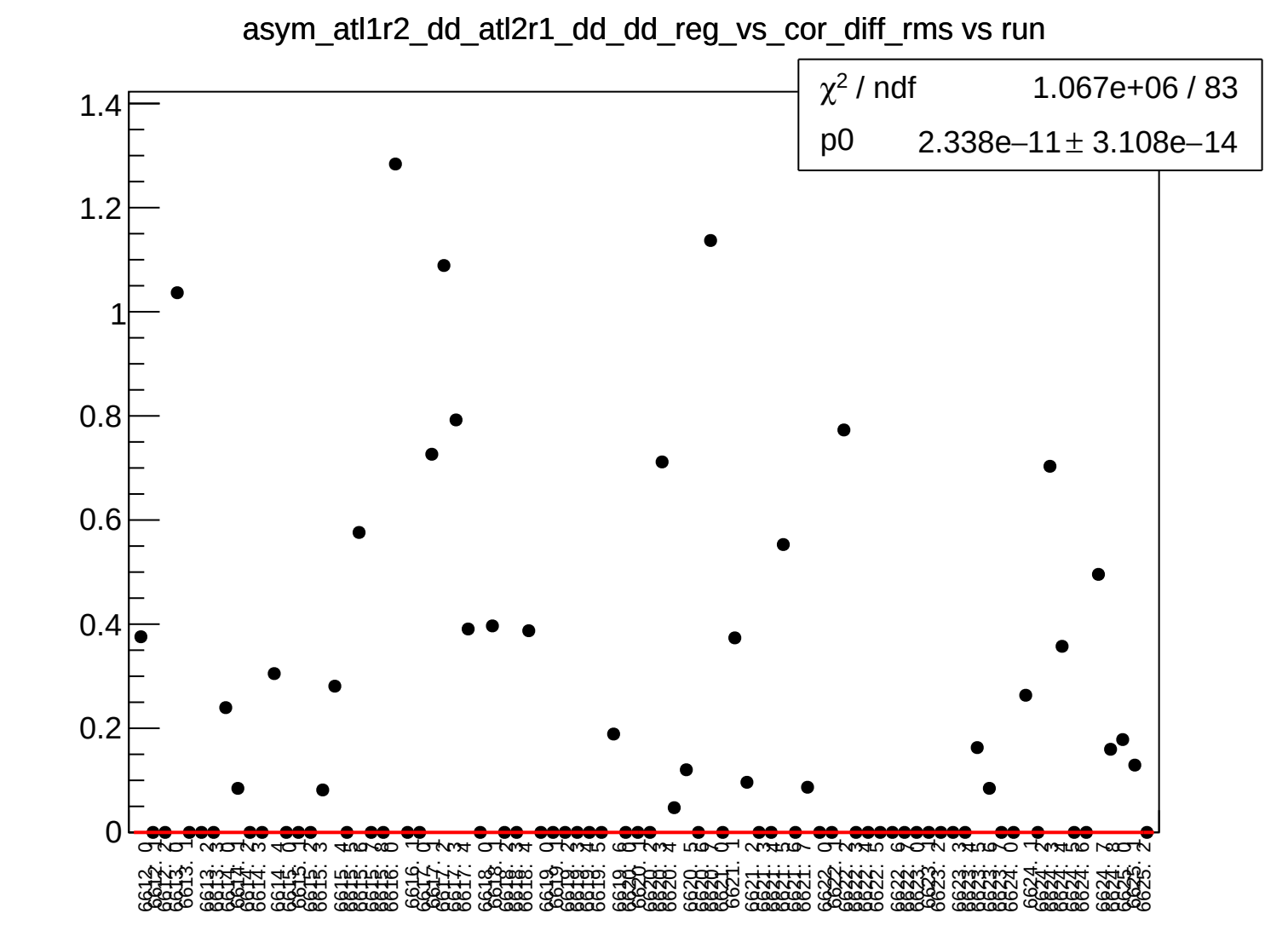

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 67.05 / 83
p0 339.7 ± 2795
pull
Entries 84
Mean 884.8
Std Dev 0

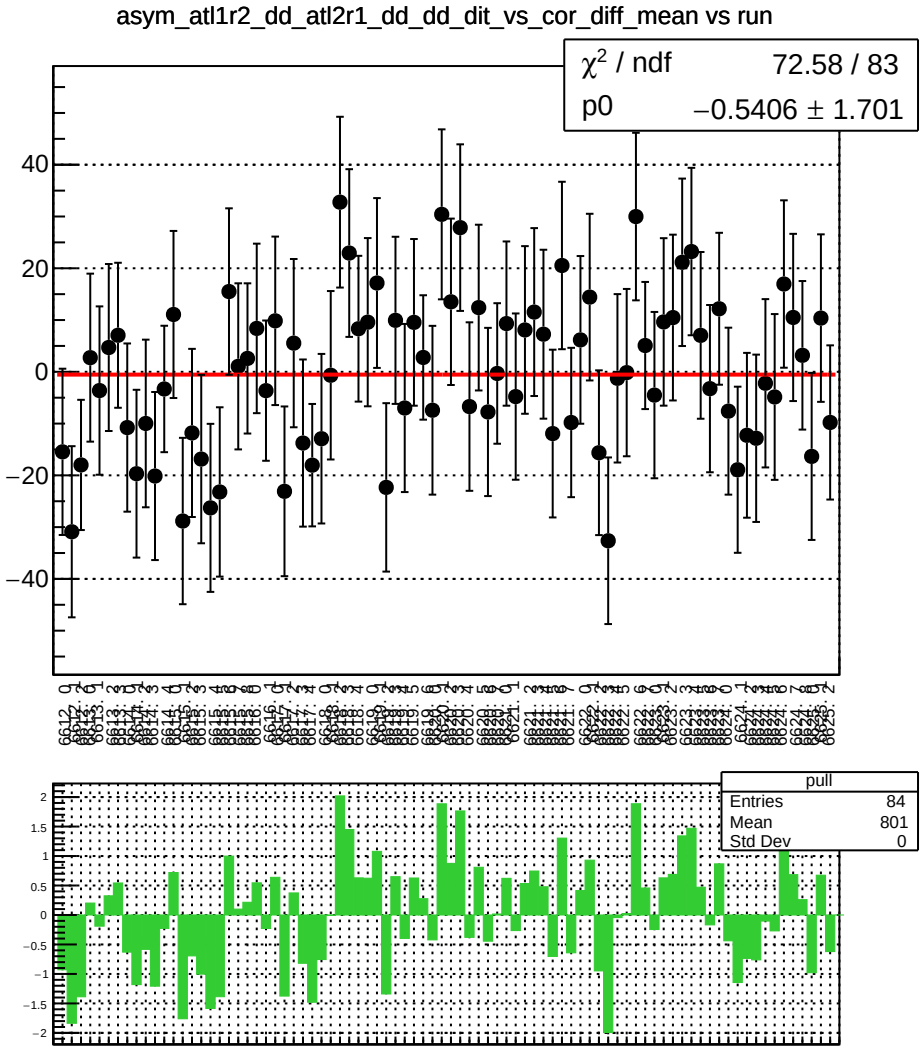

pull1D
Entries 84
Mean −0.00498
Std Dev 0.8934

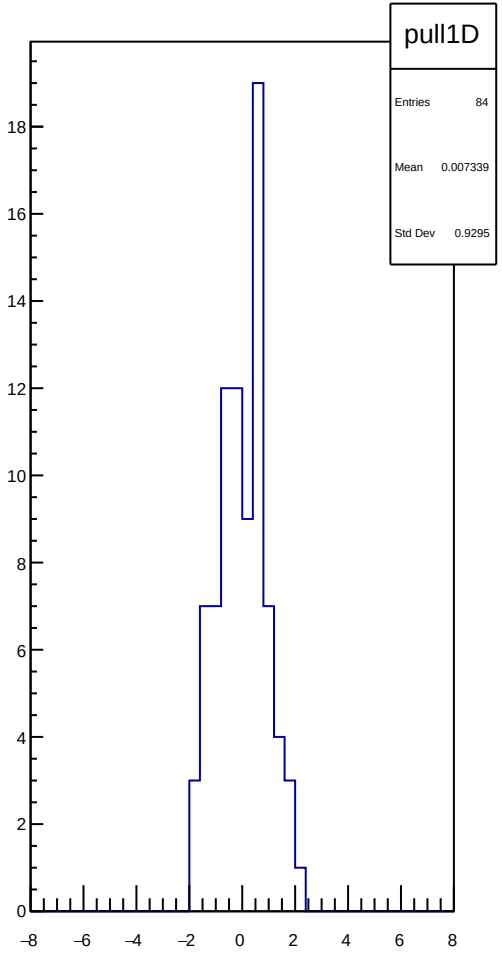

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 3033 / 83
p0 2523 ± 1.976
3000
2900
2800
2700
2600
2500
2400
2300

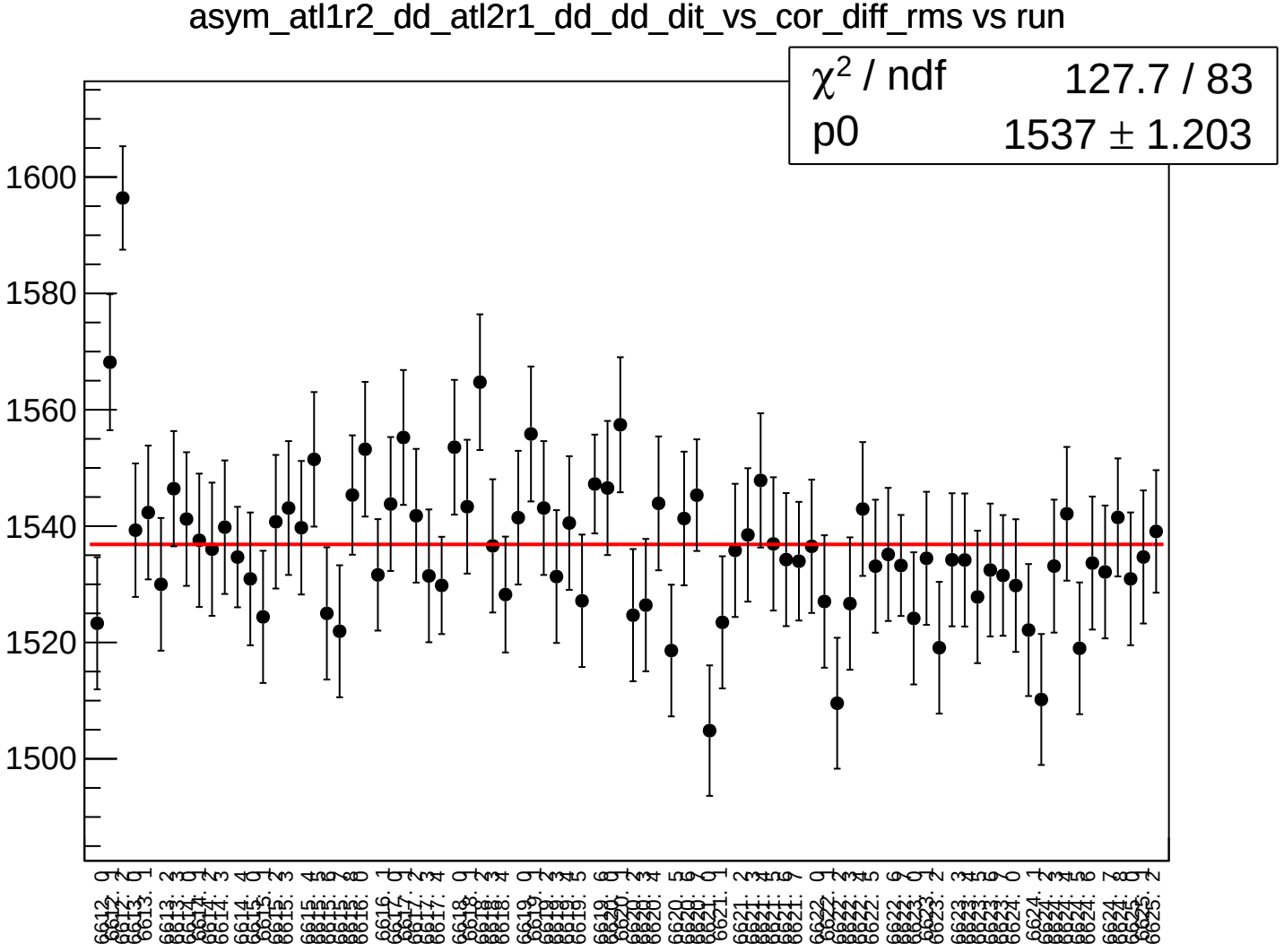

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 63.22 / 83
p0 6.268e−14 ± 4.395e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean 35.99
Std Dev 38.36
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

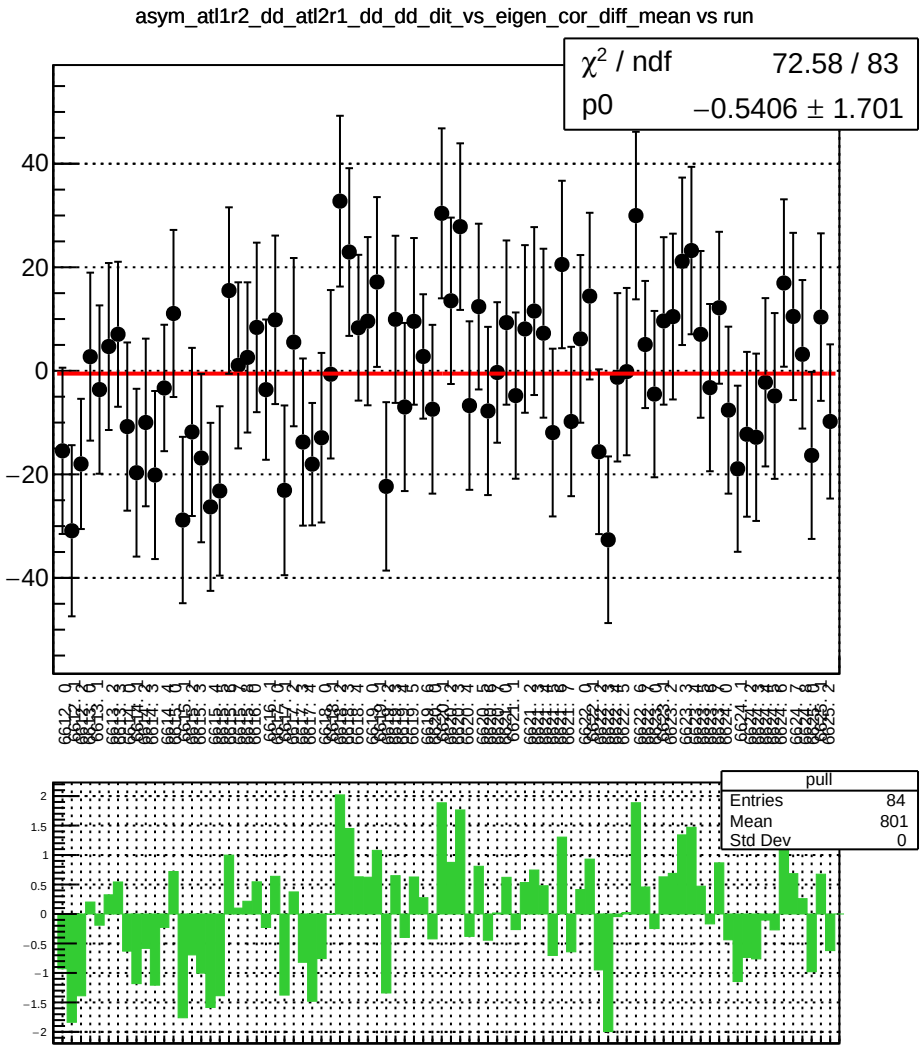

pull1D
Entries 84
Mean −0.101
Std Dev 0.8617
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

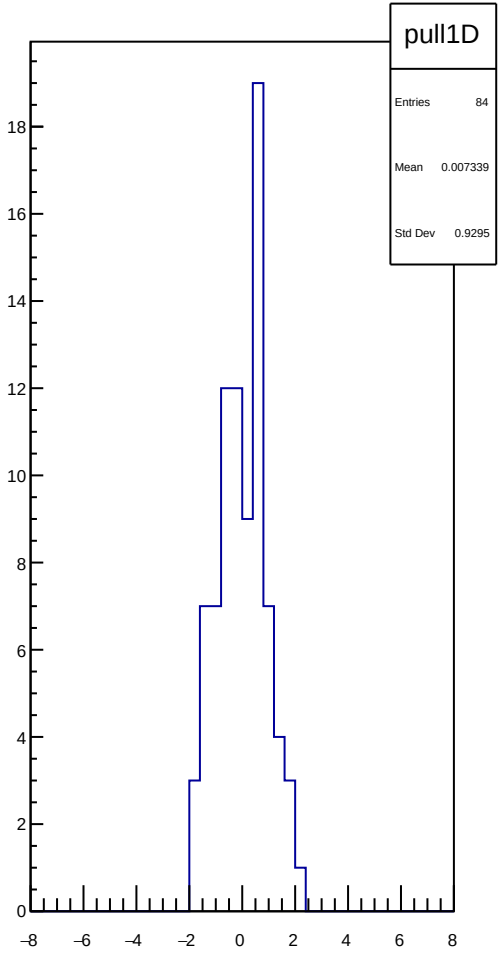

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.067e+06 / 83
p0 2.338e−11 ± 3.108e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

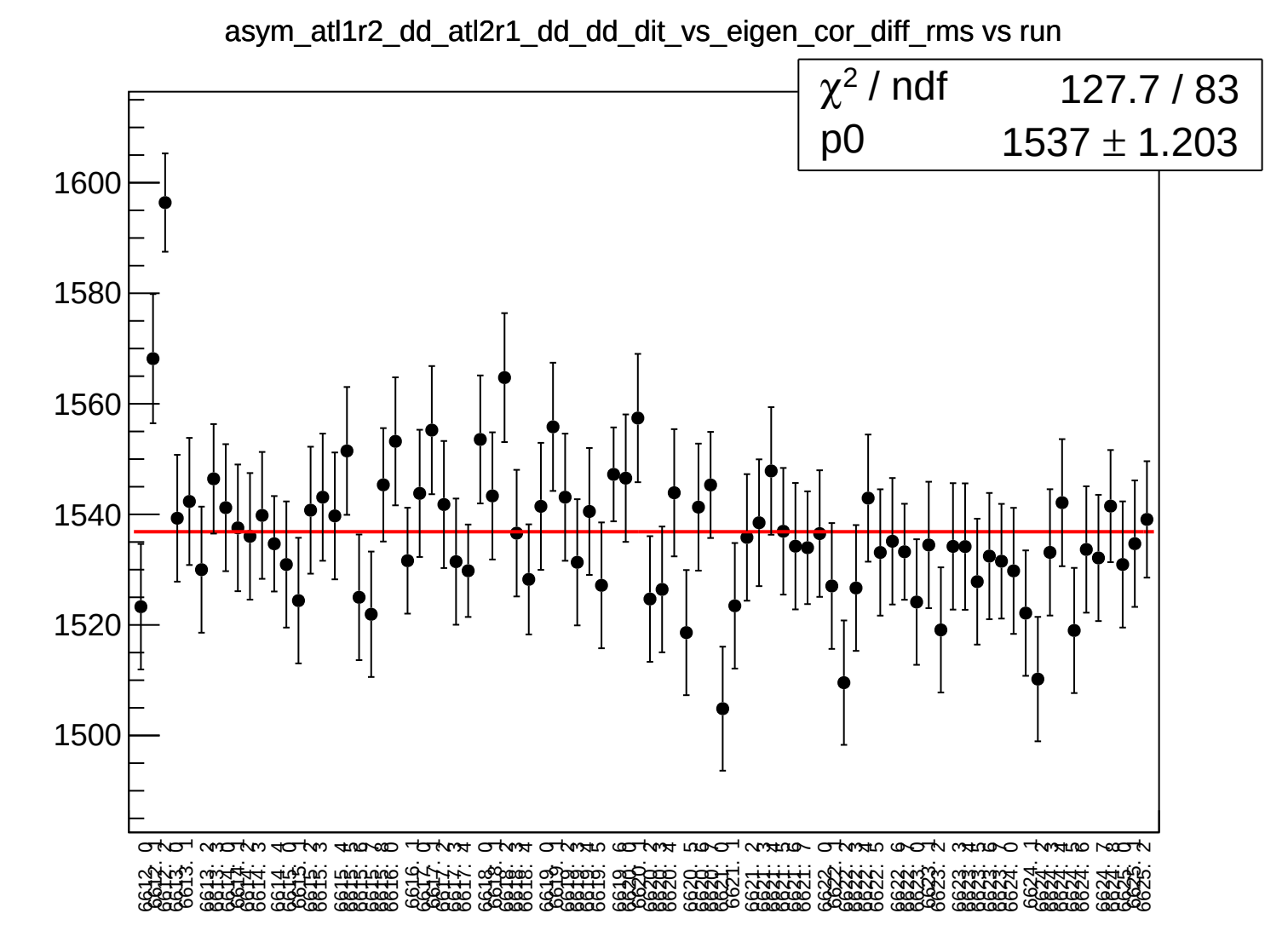

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.58 / 83
p0 −0.5406 ± 1.701
pull
Entries 84
Mean 801
Std Dev 0

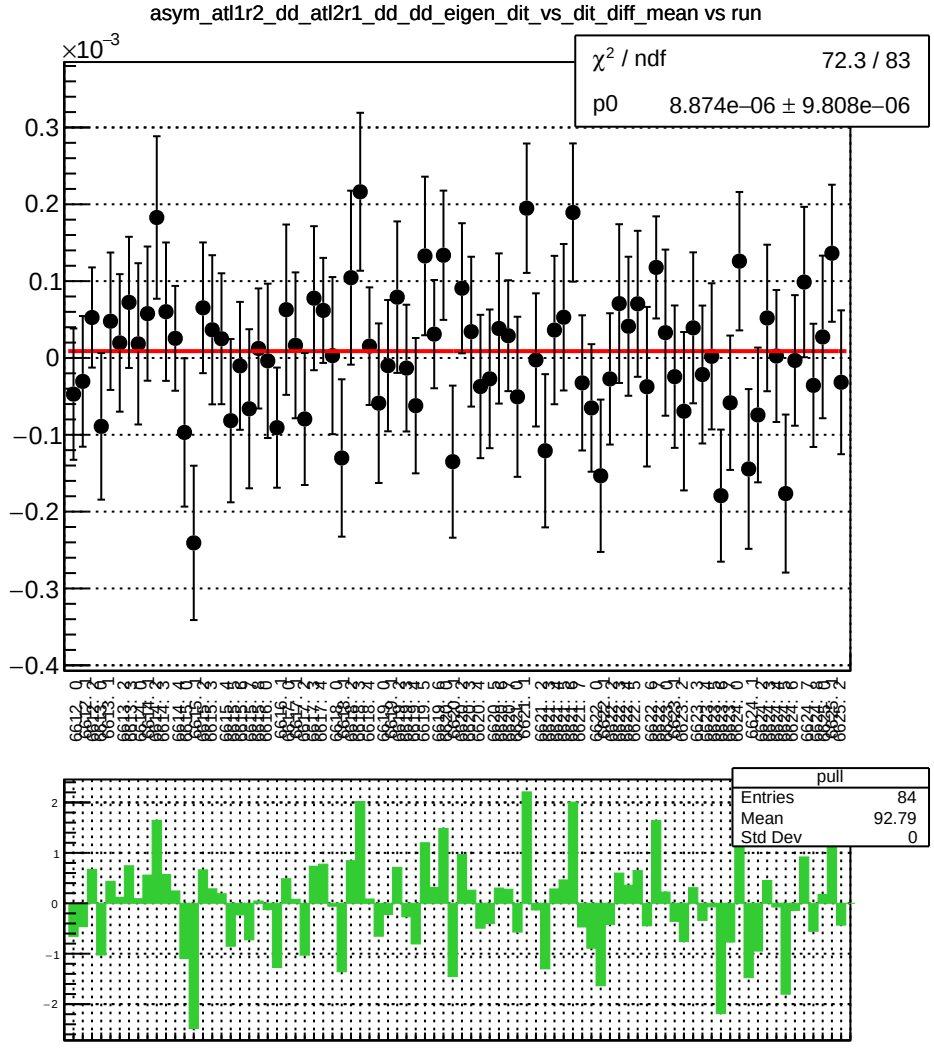

pull1D
Entries 84
Mean 0.007339
Std Dev 0.9295

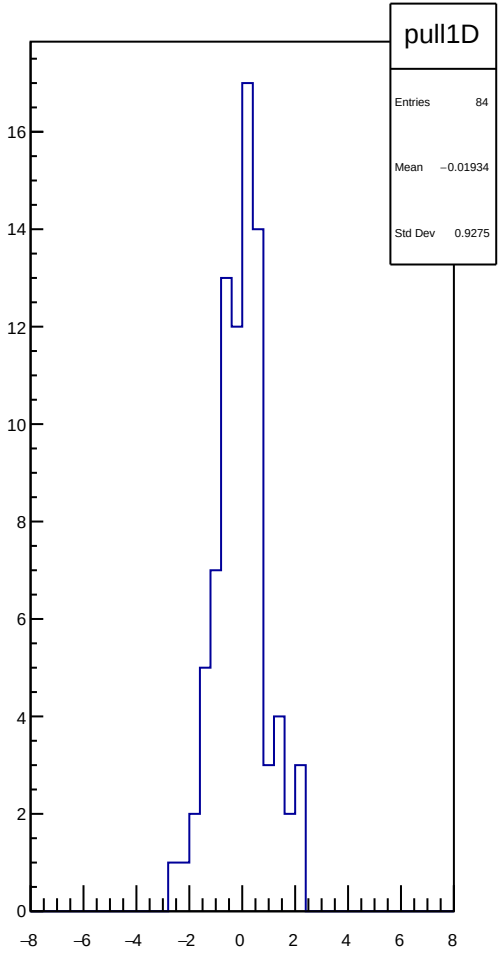

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 127.7 / 83
p0 1537 ± 1.203
1600
1580
1560
1540
1520
1500

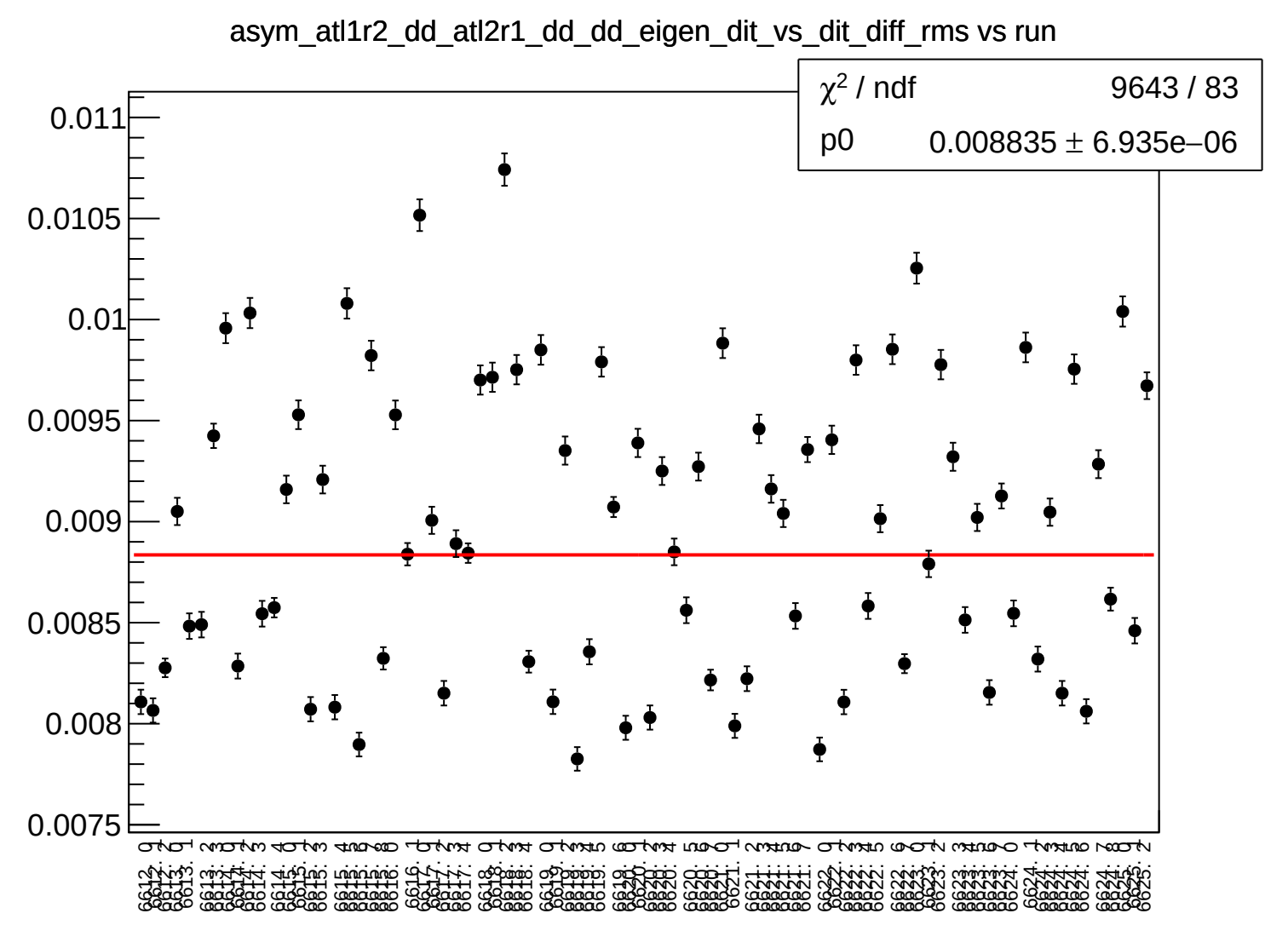

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.58 / 83
p0 −0.5406 ± 1.701
pull
Entries 84
Mean 801
Std Dev 0

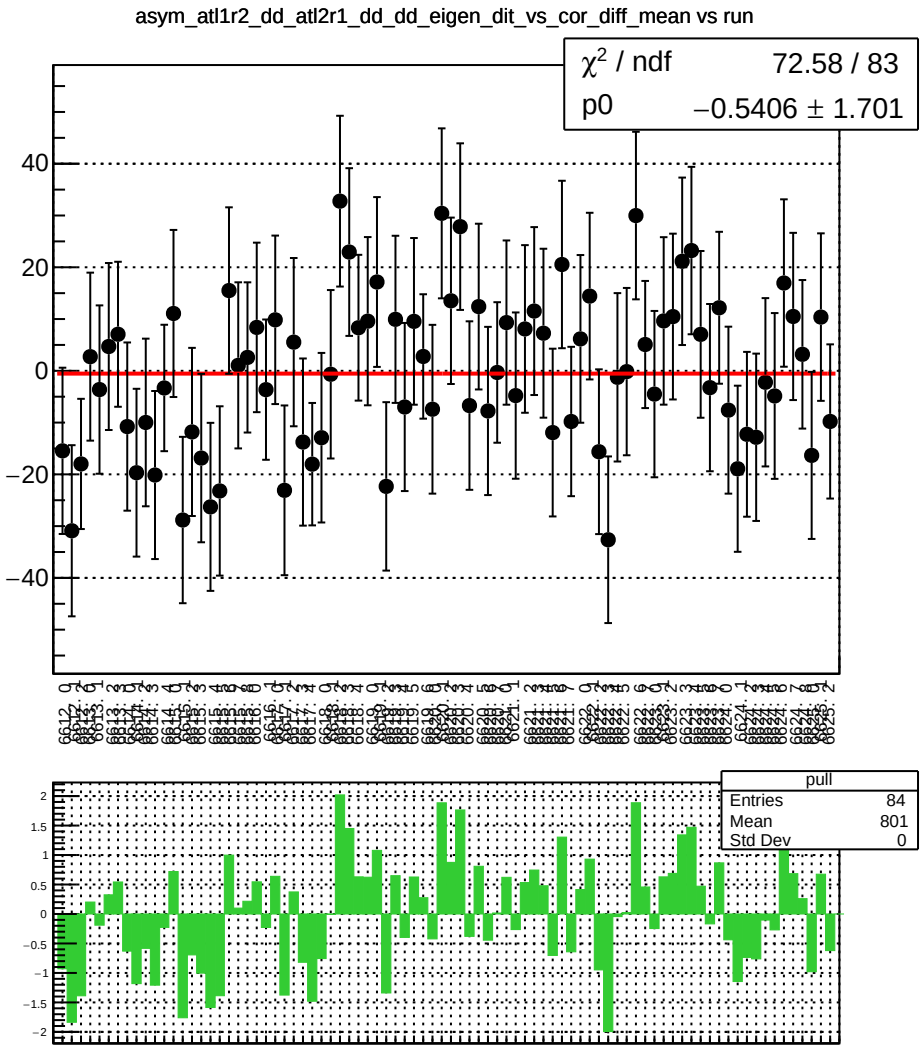

pull1D
Entries 84
Mean 0.007339
Std Dev 0.9295

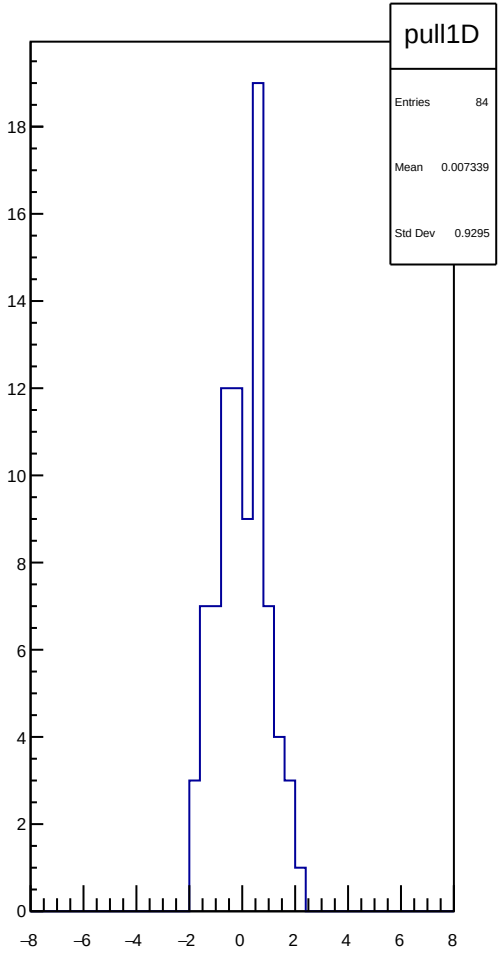

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 127.7 / 83
p0 1537 ± 1.203
1600
1580
1560
1540
1520
1500

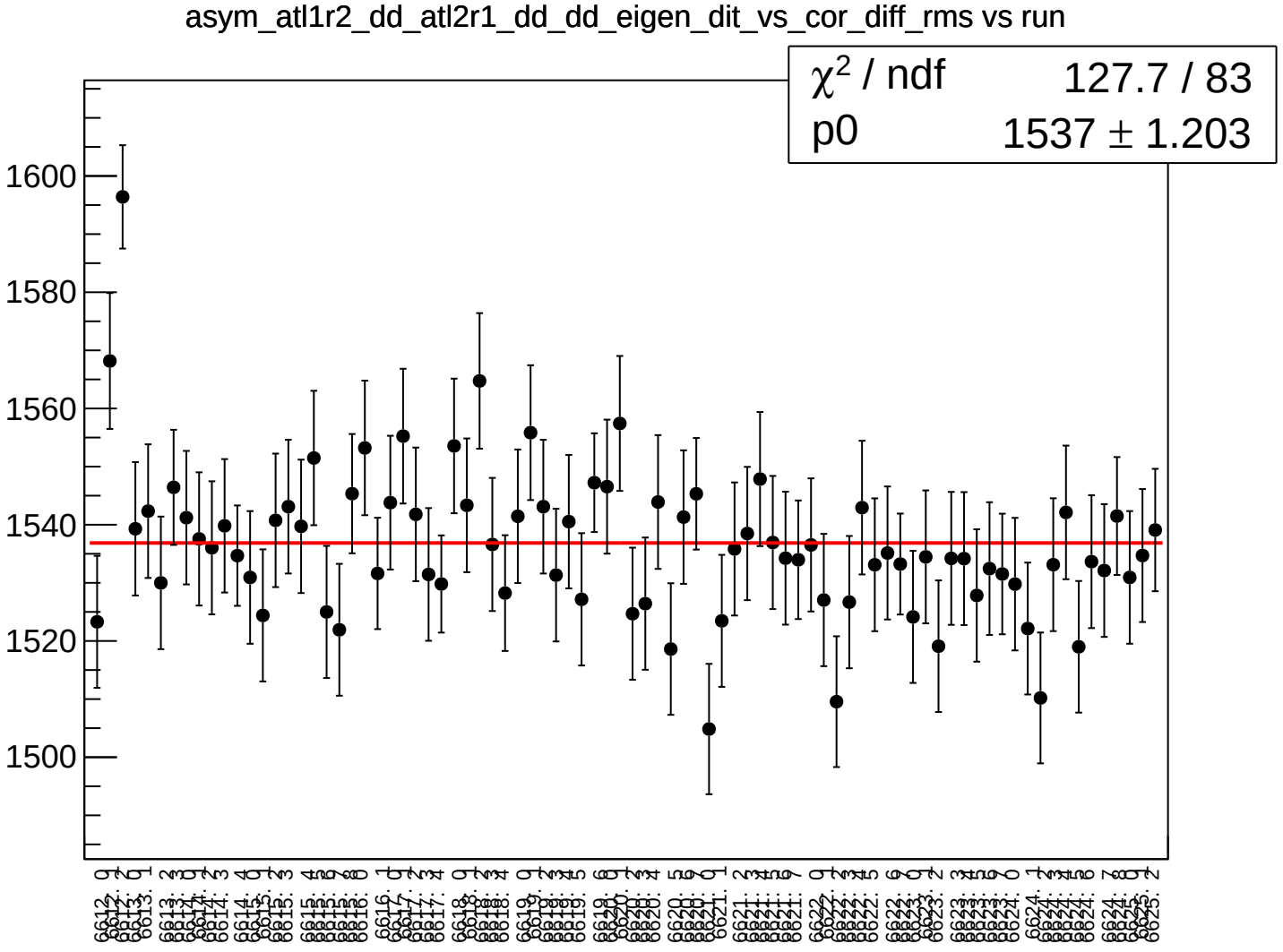

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 72.3 / 83
p0 8.874e−06 ± 9.808e−06
pull
Entries 84
Mean 92.79
Std Dev 0

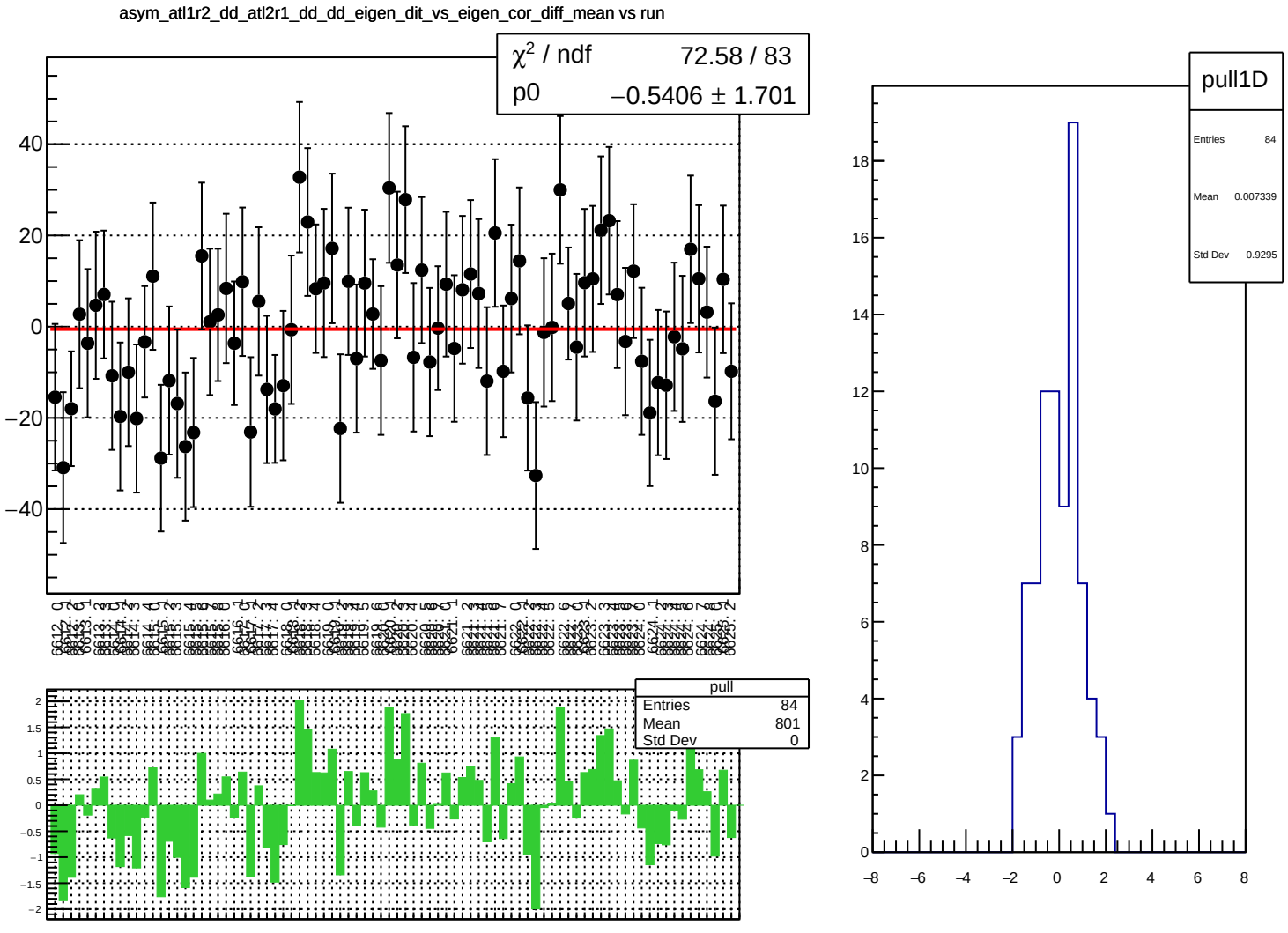

pull1D
Entries 84
Mean −0.01934
Std Dev 0.9275

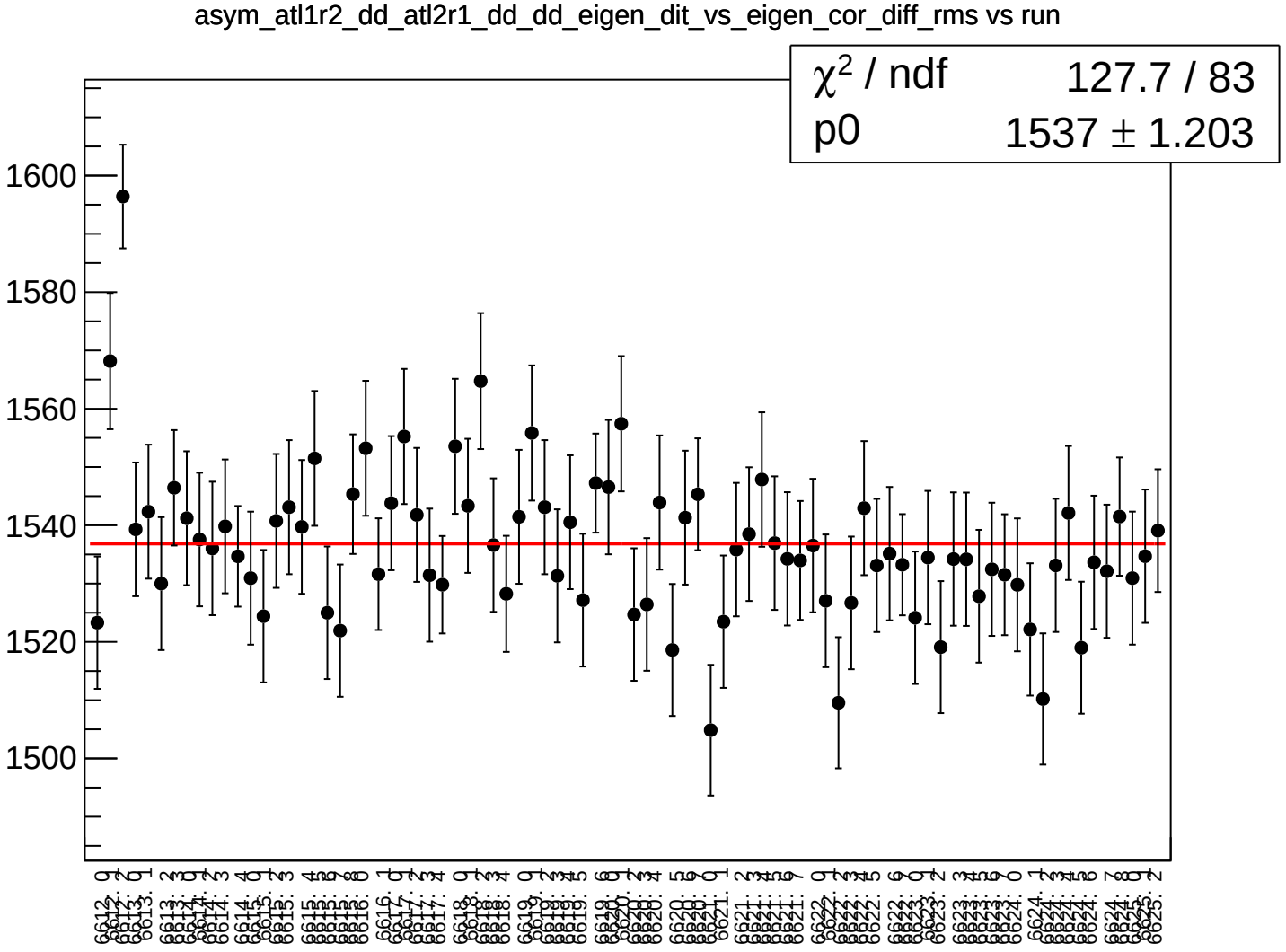

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9643 / 83
p0 0.008835 ± 6.935e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075

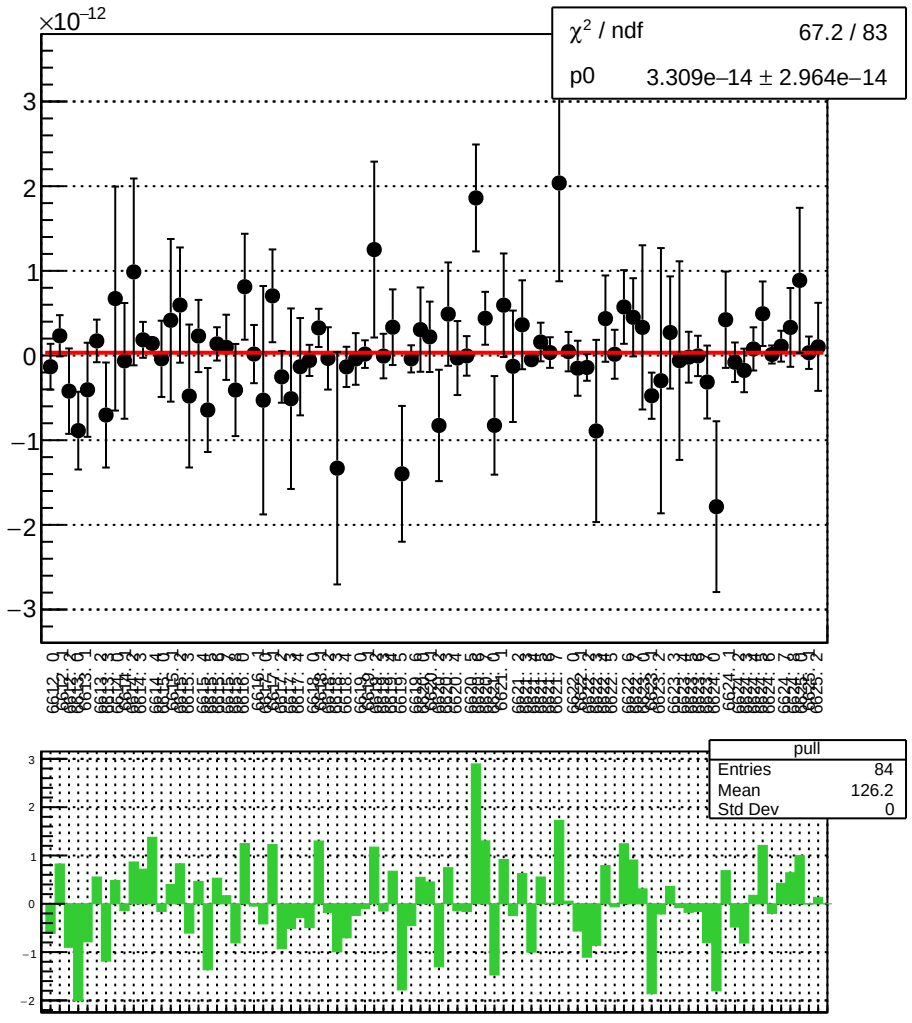

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.58 / 83
p0 −0.5406 ± 1.701
pull
Entries 84
Mean 801
Std Dev 0

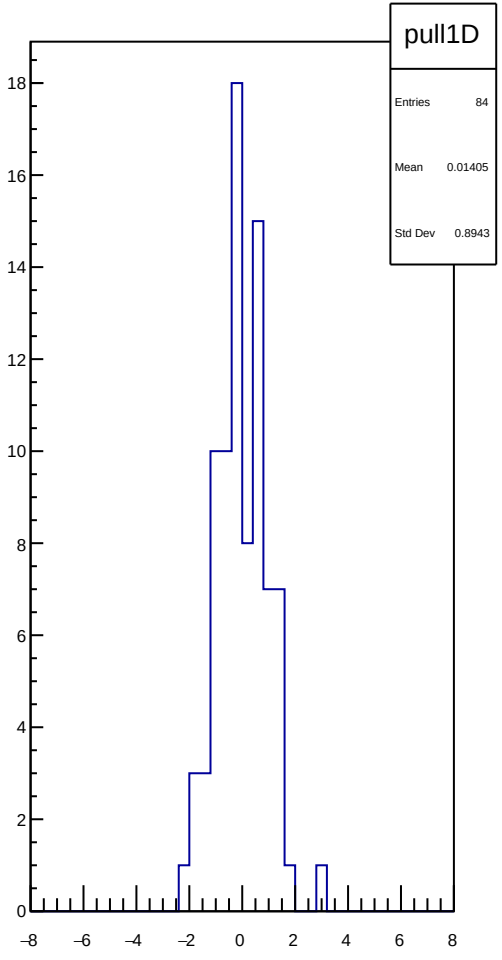

pull1D
Entries 84
Mean 0.007339
Std Dev 0.9295

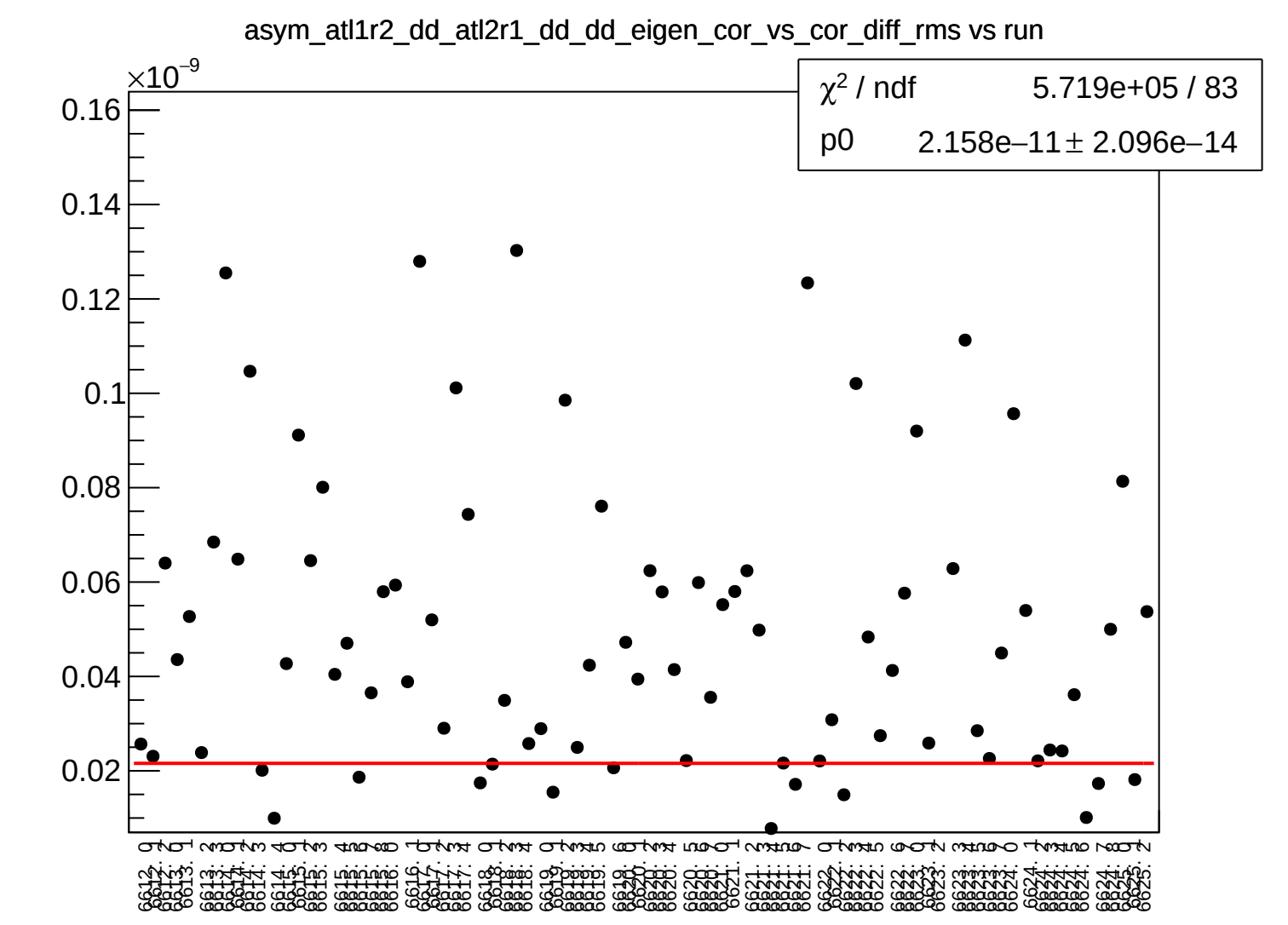

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 127.7 / 83
p0 1537 ± 1.203
1600
1580
1560
1540
1520
1500

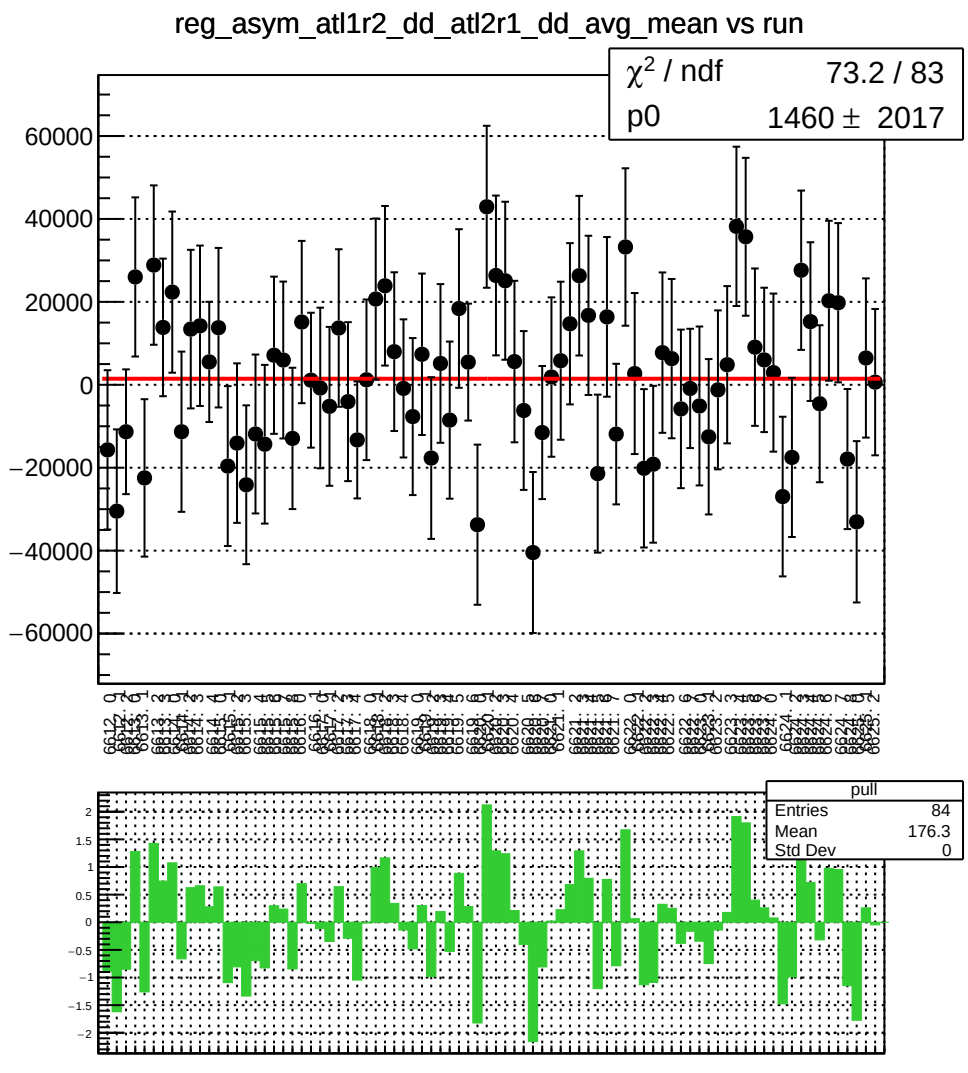

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.58 / 83
p0 −0.5406 ± 1.701
pull
Entries 84
Mean 801
Std Dev 0
pull1D
Entries 84
Mean 0.007339
Std Dev 0.9295

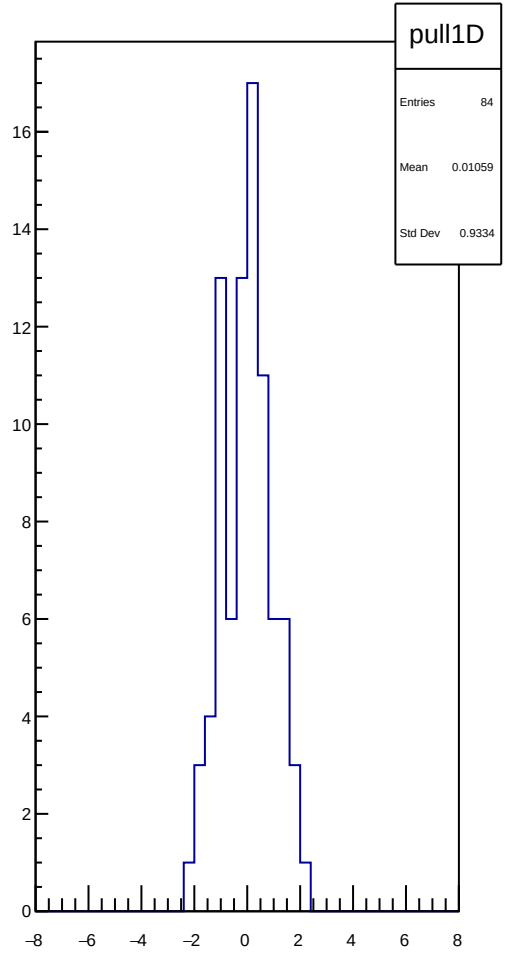

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 127.7 / 83
p0 1537 ± 1.203
1600
1580
1560
1540
1520
1500

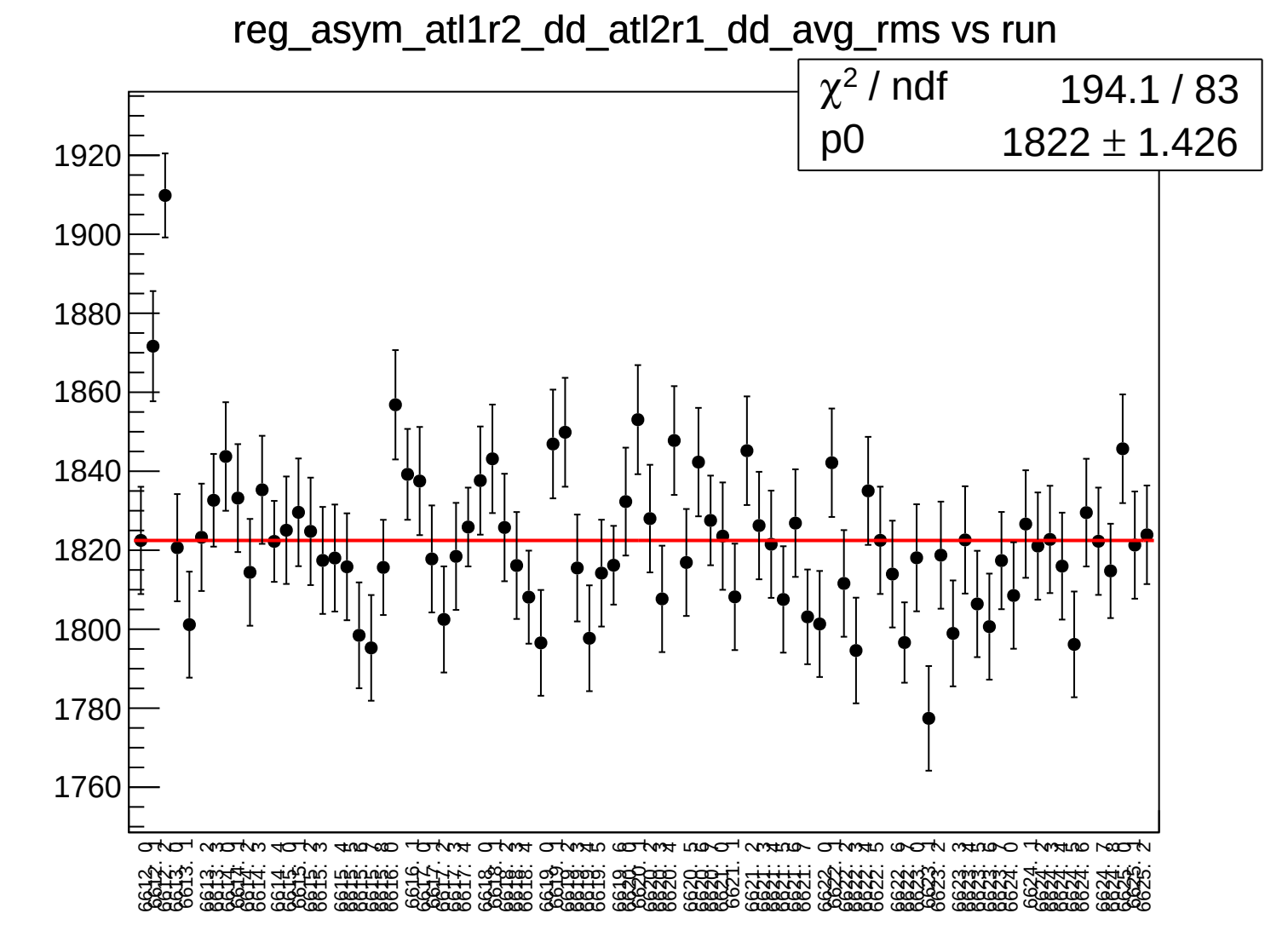

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.2 / 83
p0 3.309e−14 ± 2.964e−14
pull
Entries 84
Mean 126.2
Std Dev 0

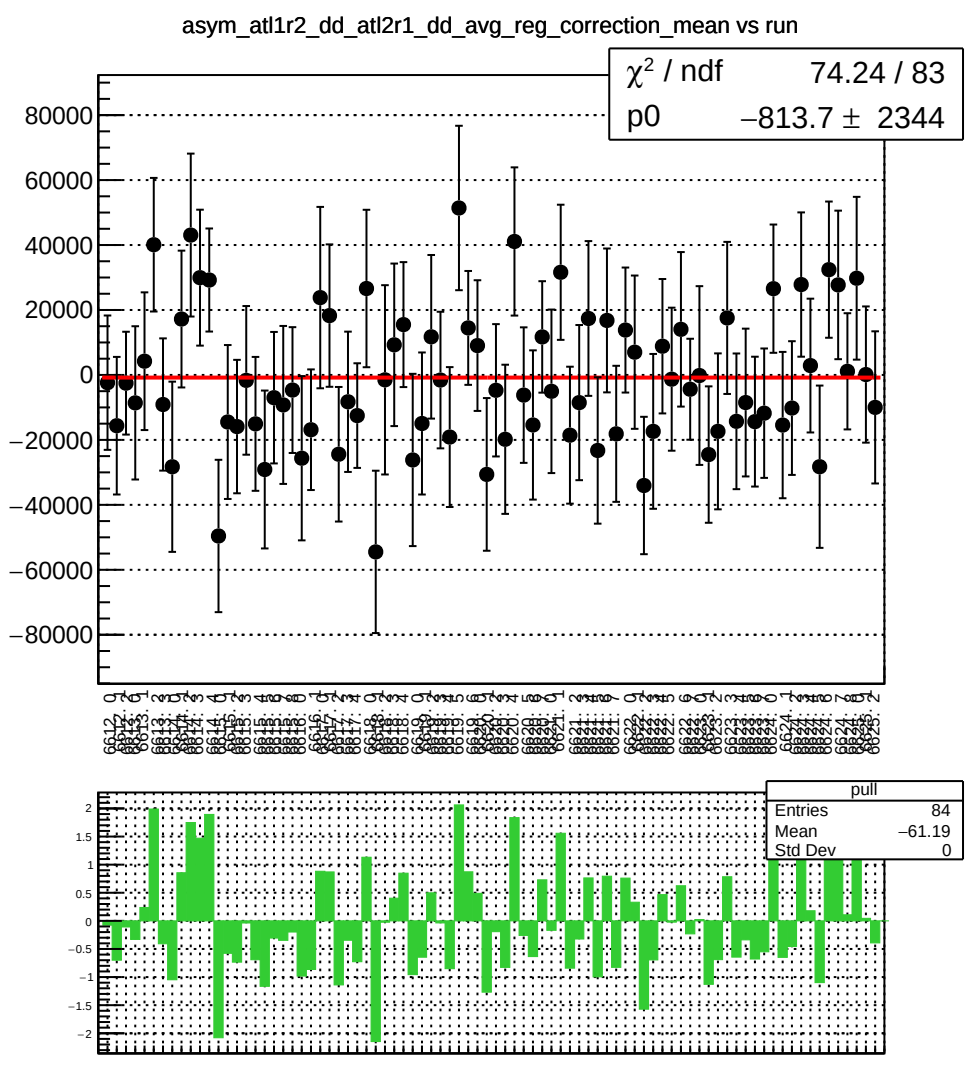

pull1D
Entries 84
Mean 0.01405
Std Dev 0.8943

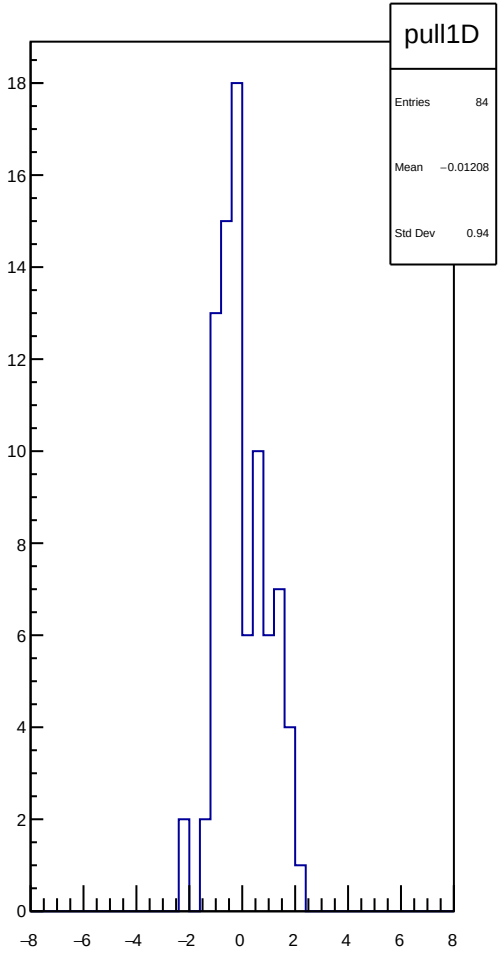

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.719e+05 / 83
p0 2.158e−11 ± 2.096e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

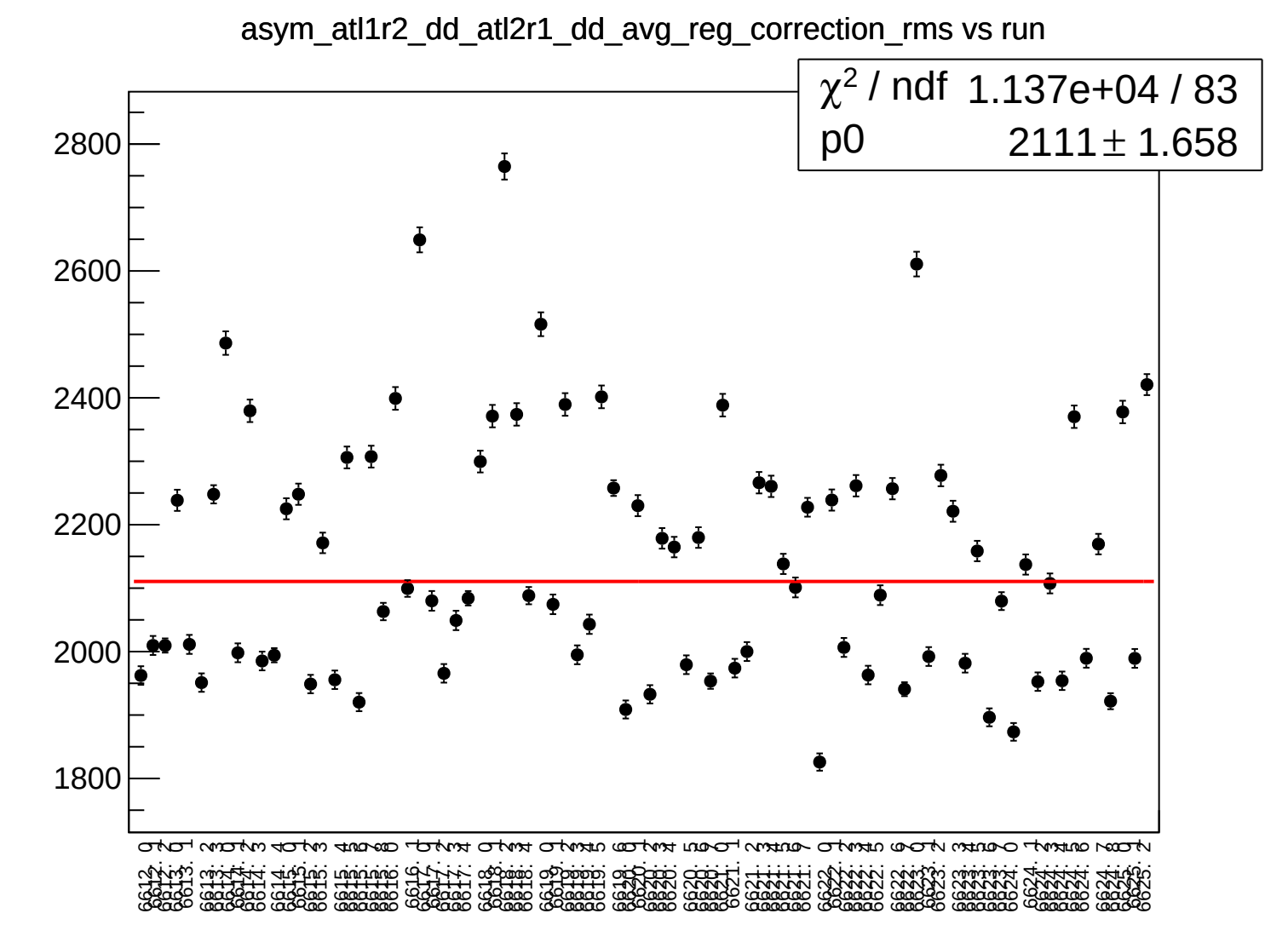

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 73.2 / 83
p0 1460 ± 2017
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 176.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

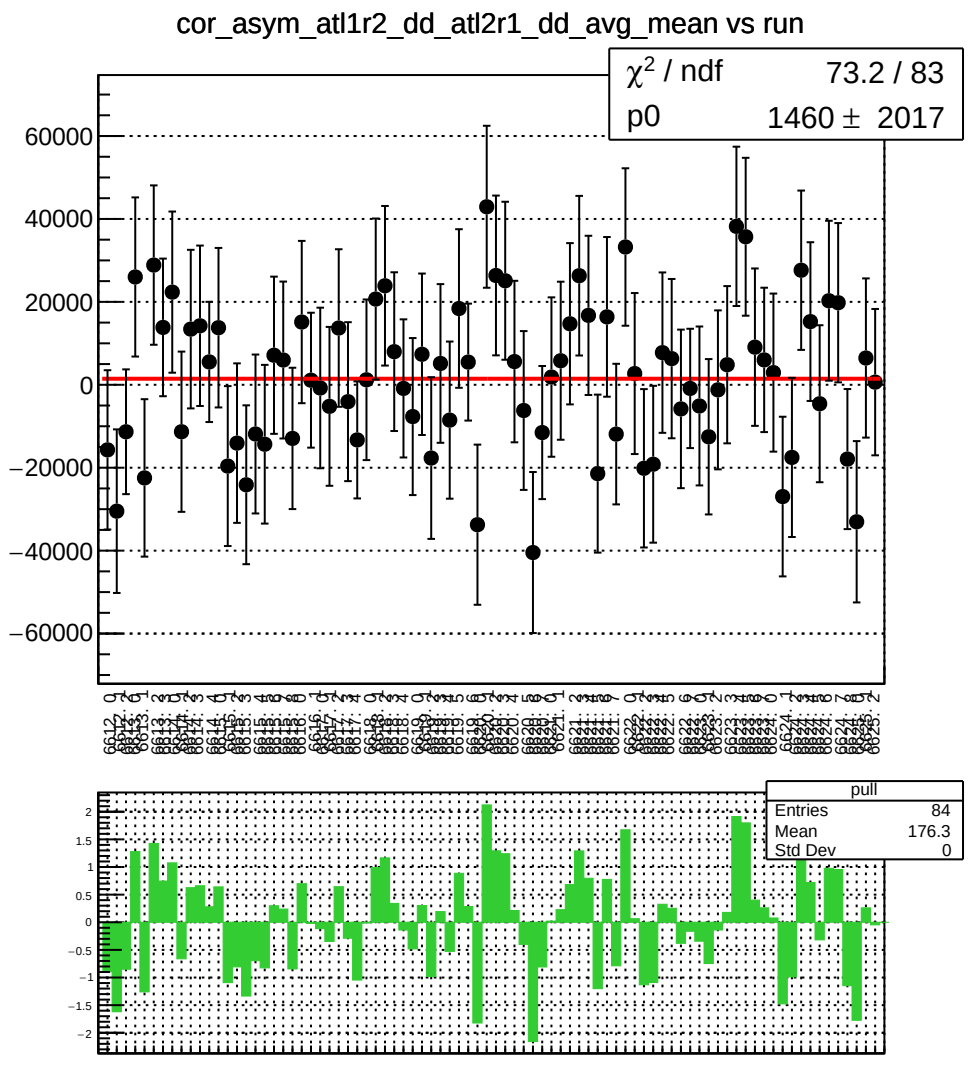

pull1D
Entries 84
Mean 0.01059
Std Dev 0.9334
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

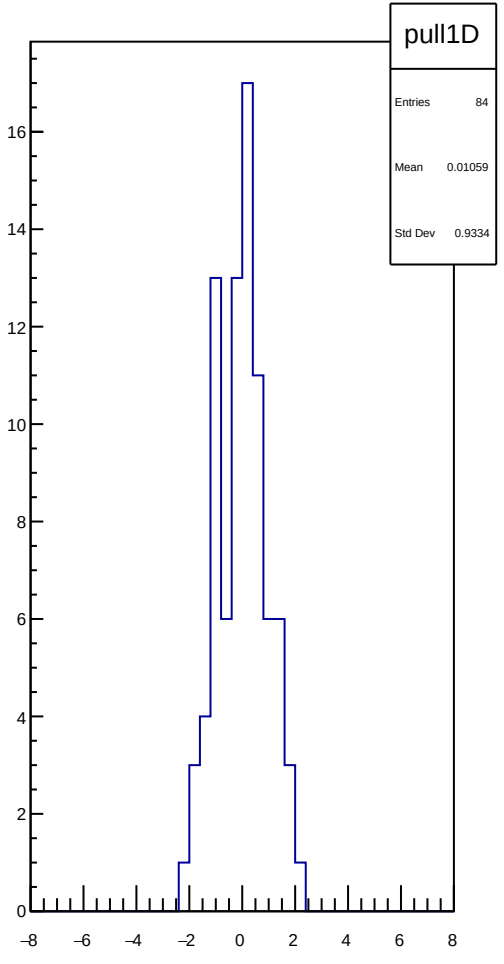

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 194.1 / 83
p0 1822 ± 1.426
1920
1900
1880
1860
1840
1820
1800
1780
1760

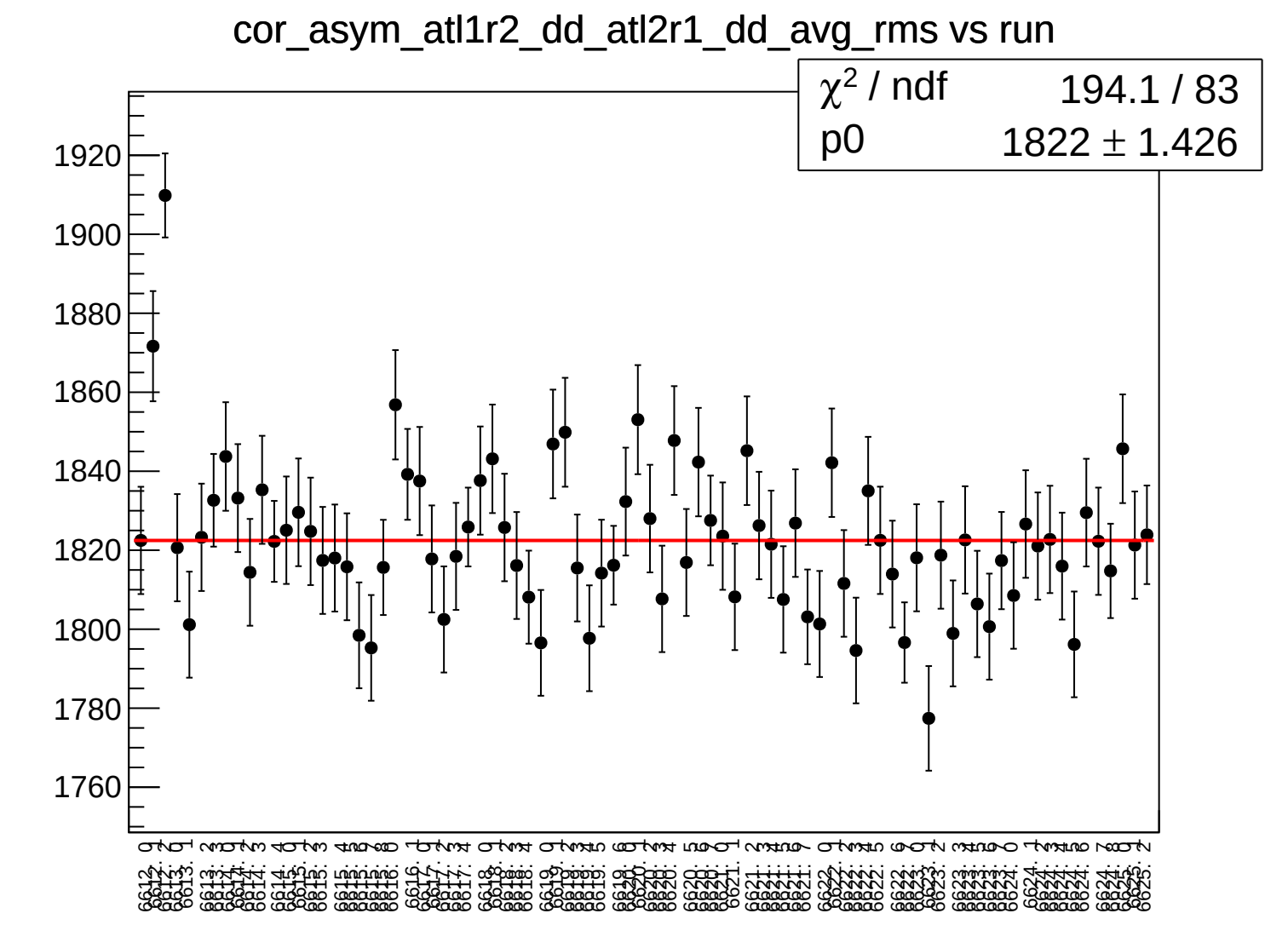

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 74.24 / 83
p0 −813.7 ± 2344
pull
Entries 84
Mean −61.19
Std Dev 0

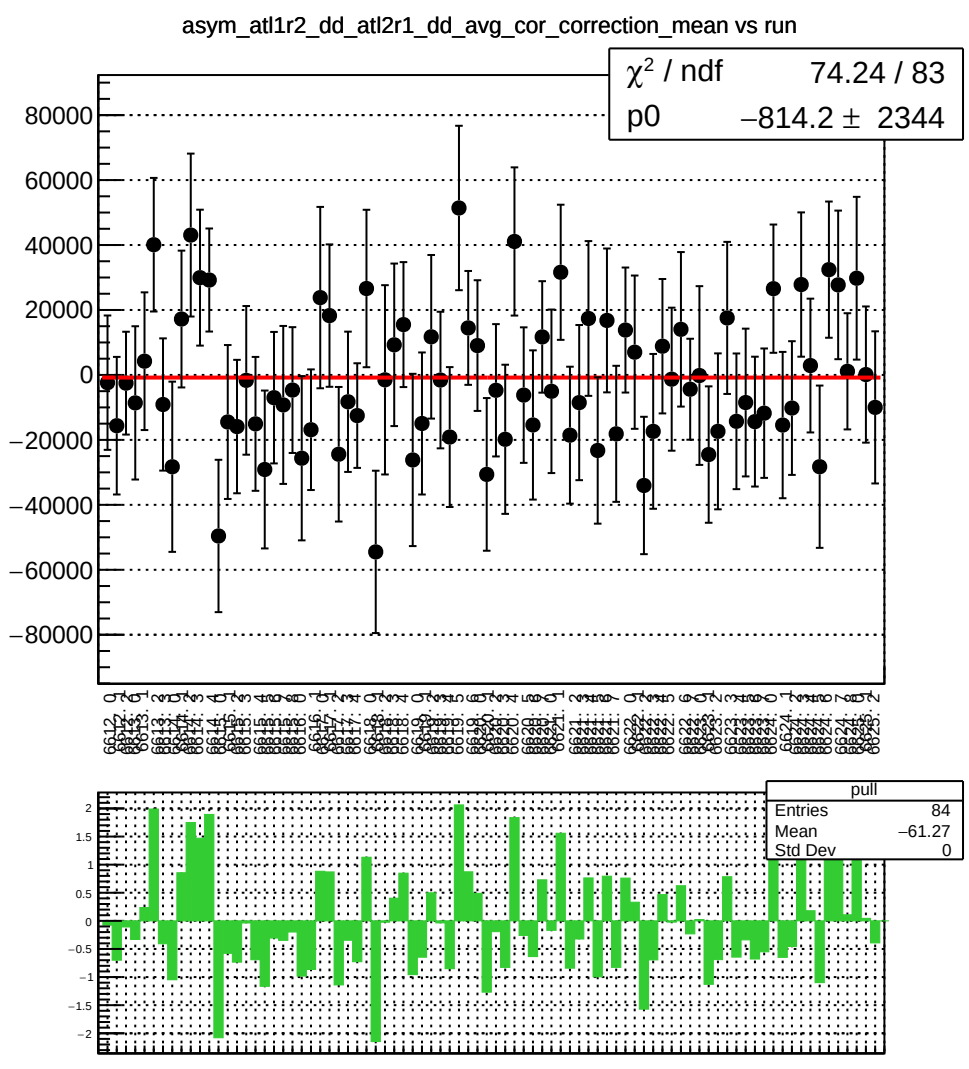

pull1D
Entries 84
Mean −0.01208
Std Dev 0.94

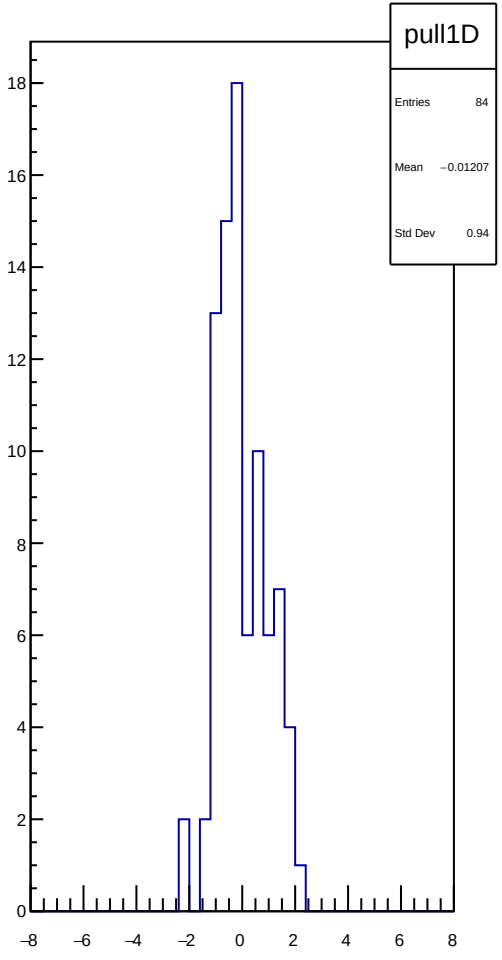

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1.137e+04 / 83
p0 2111 ± 1.658
2800
2600
2400
2200
2000
1800

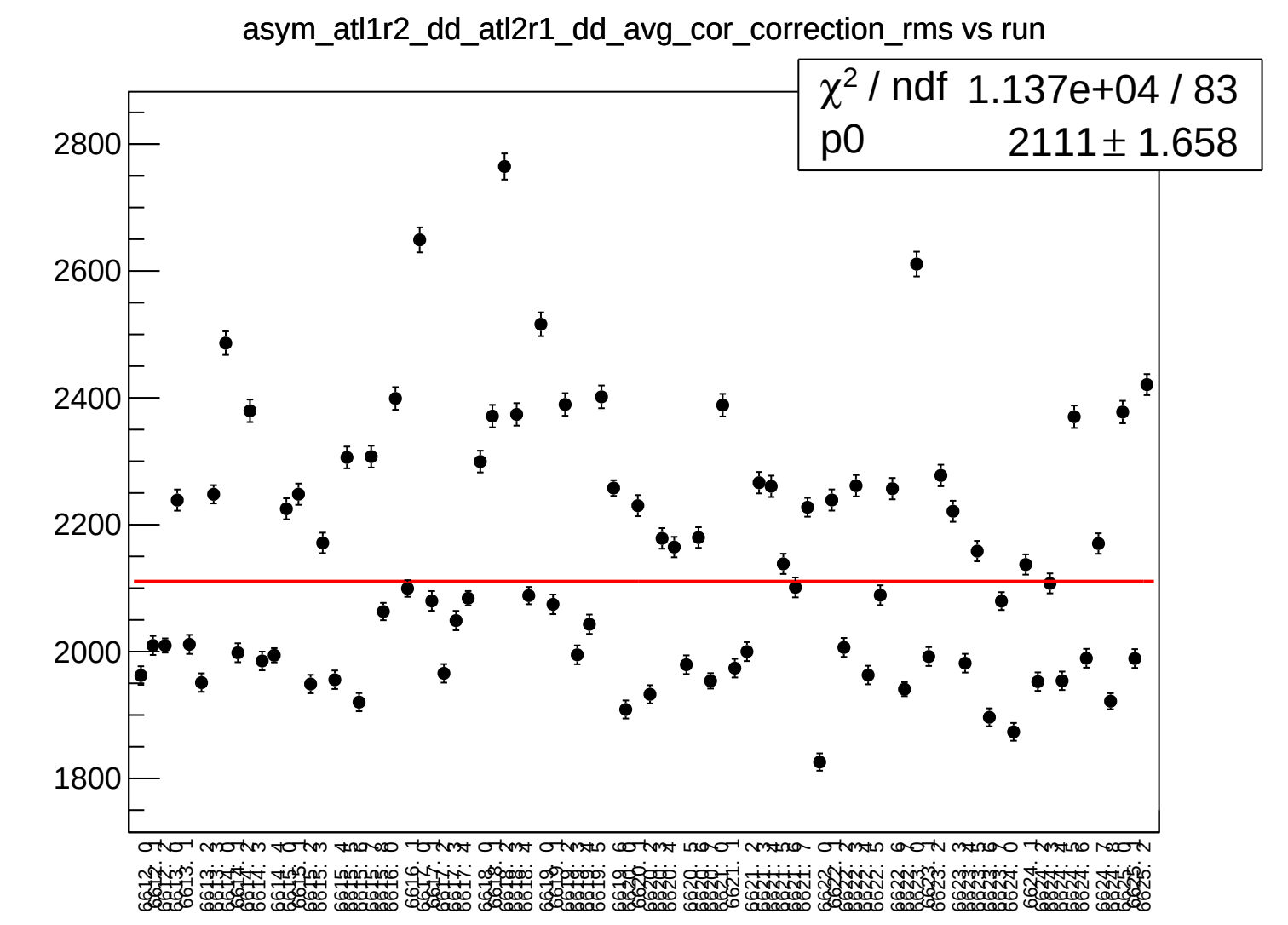

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 73.2 / 83
p0 1460 ± 2017
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 176.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

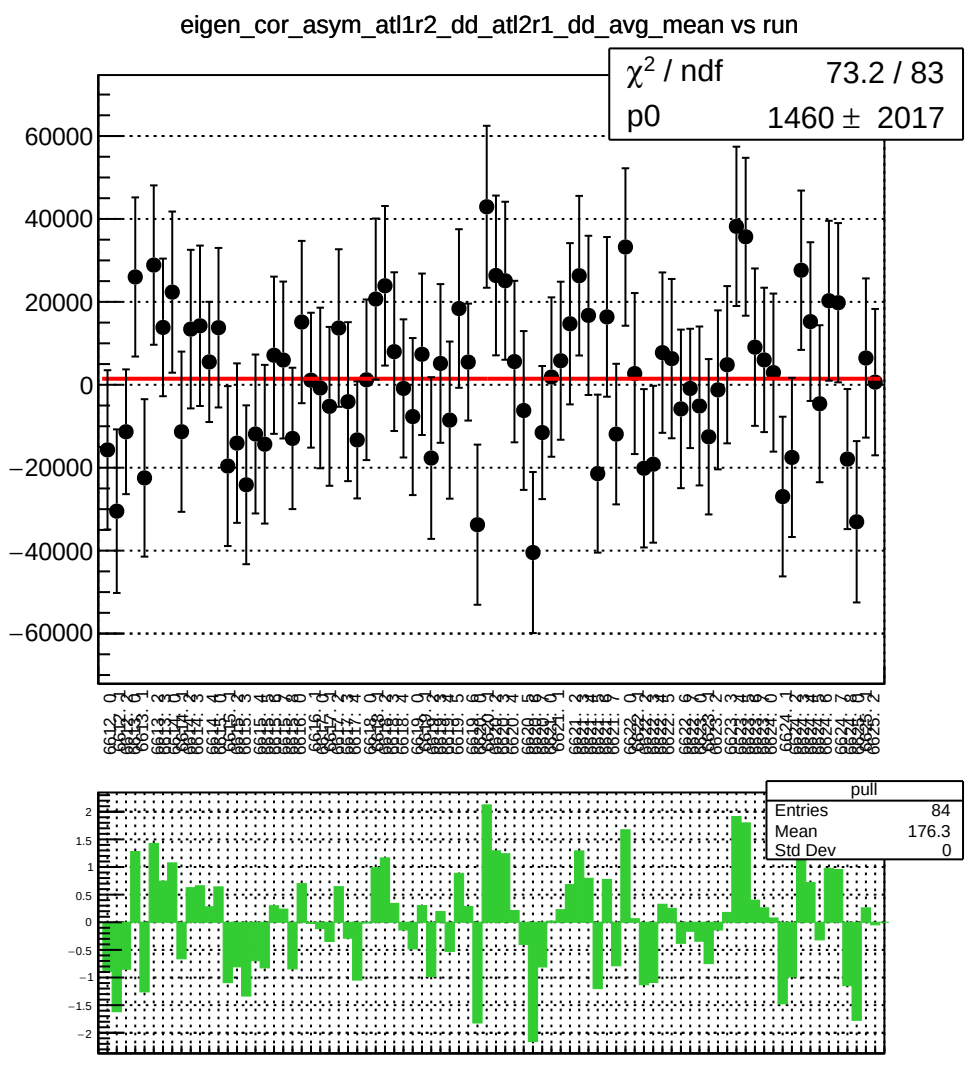

pull1D
Entries 84
Mean 0.01059
Std Dev 0.9334
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

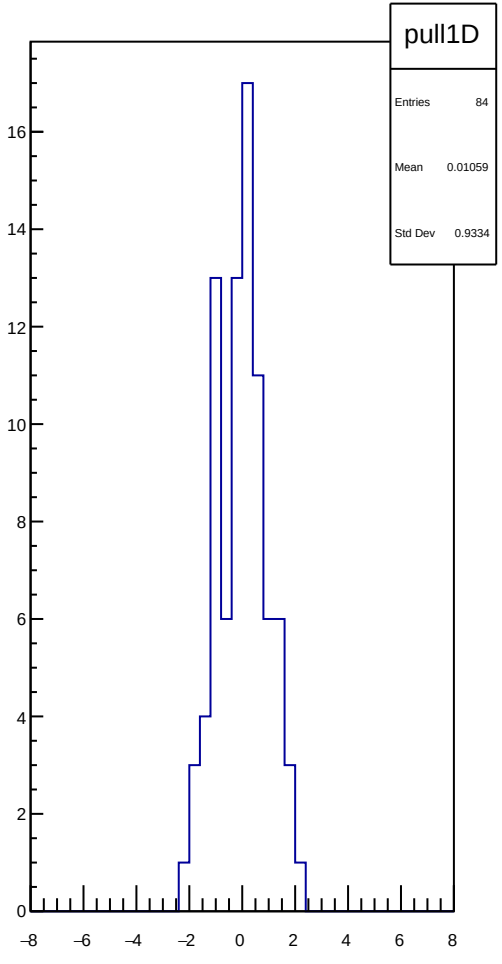

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 194.1 / 83
p0 1822 ± 1.426
1920
1900
1880
1860
1840
1820
1800
1780
1760

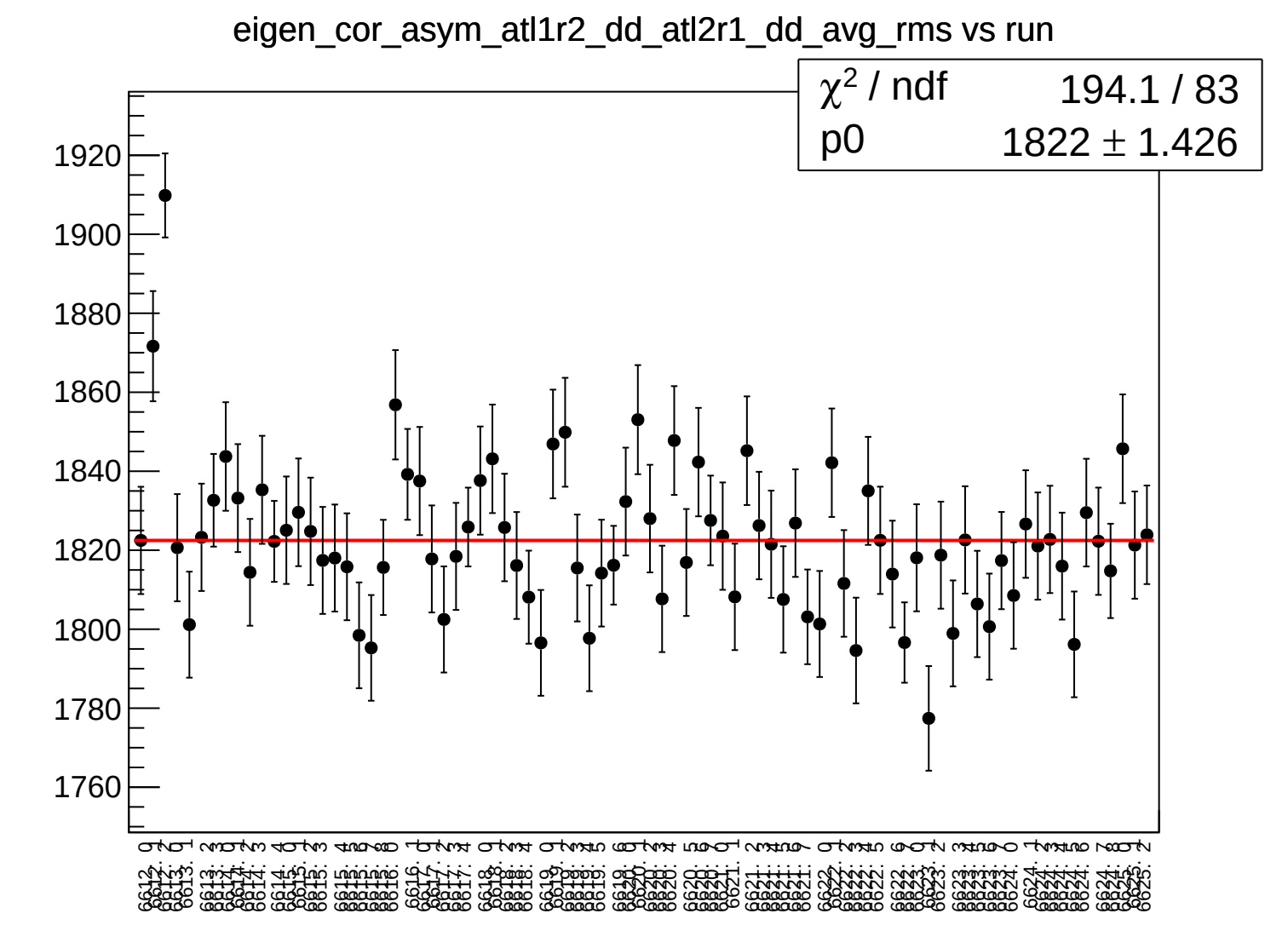

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 74.24 / 83
p0 −814.2 ± 2344
pull
Entries 84
Mean −61.27
Std Dev 0

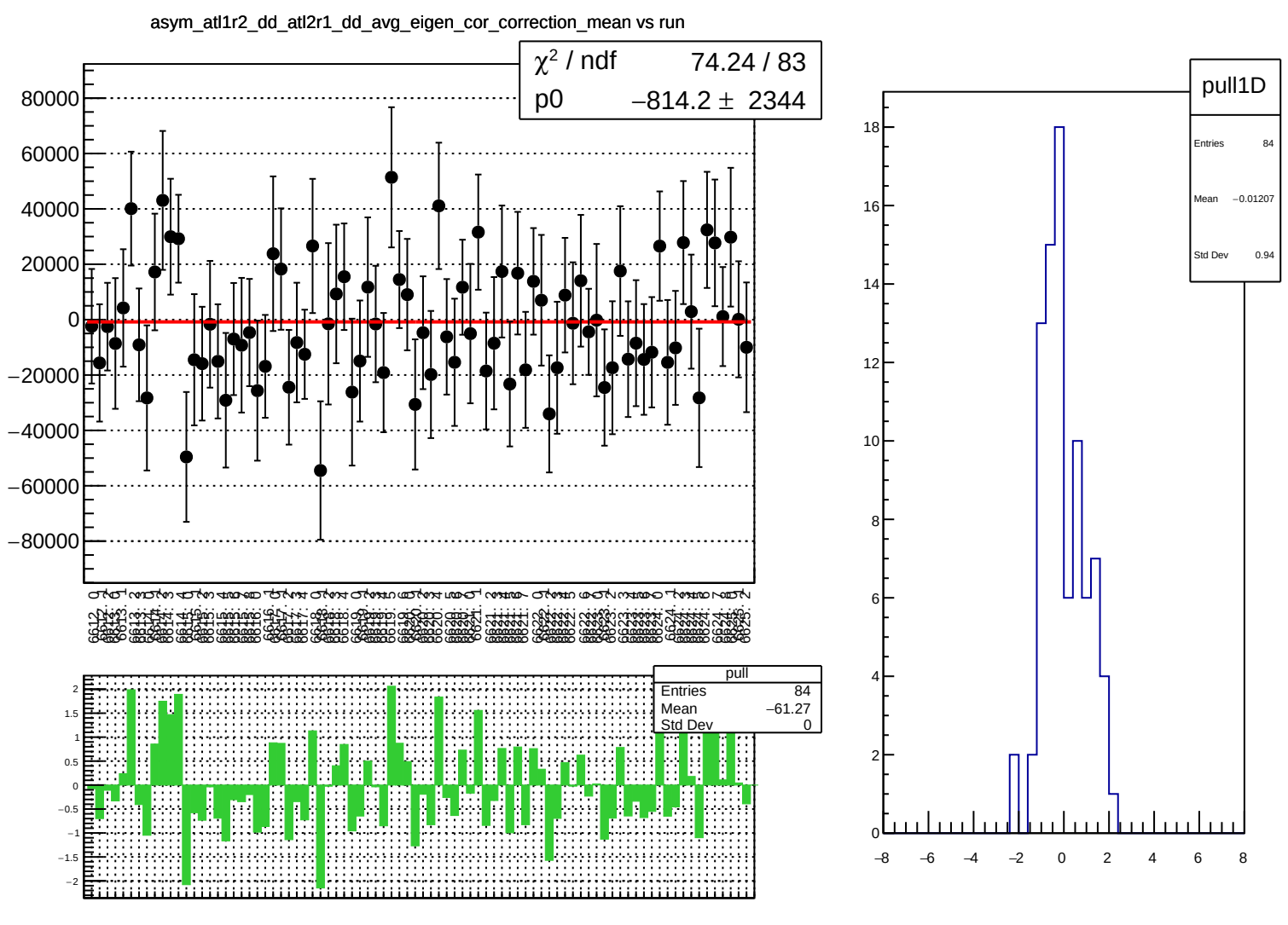

pull1D
Entries 84
Mean −0.01207
Std Dev 0.94

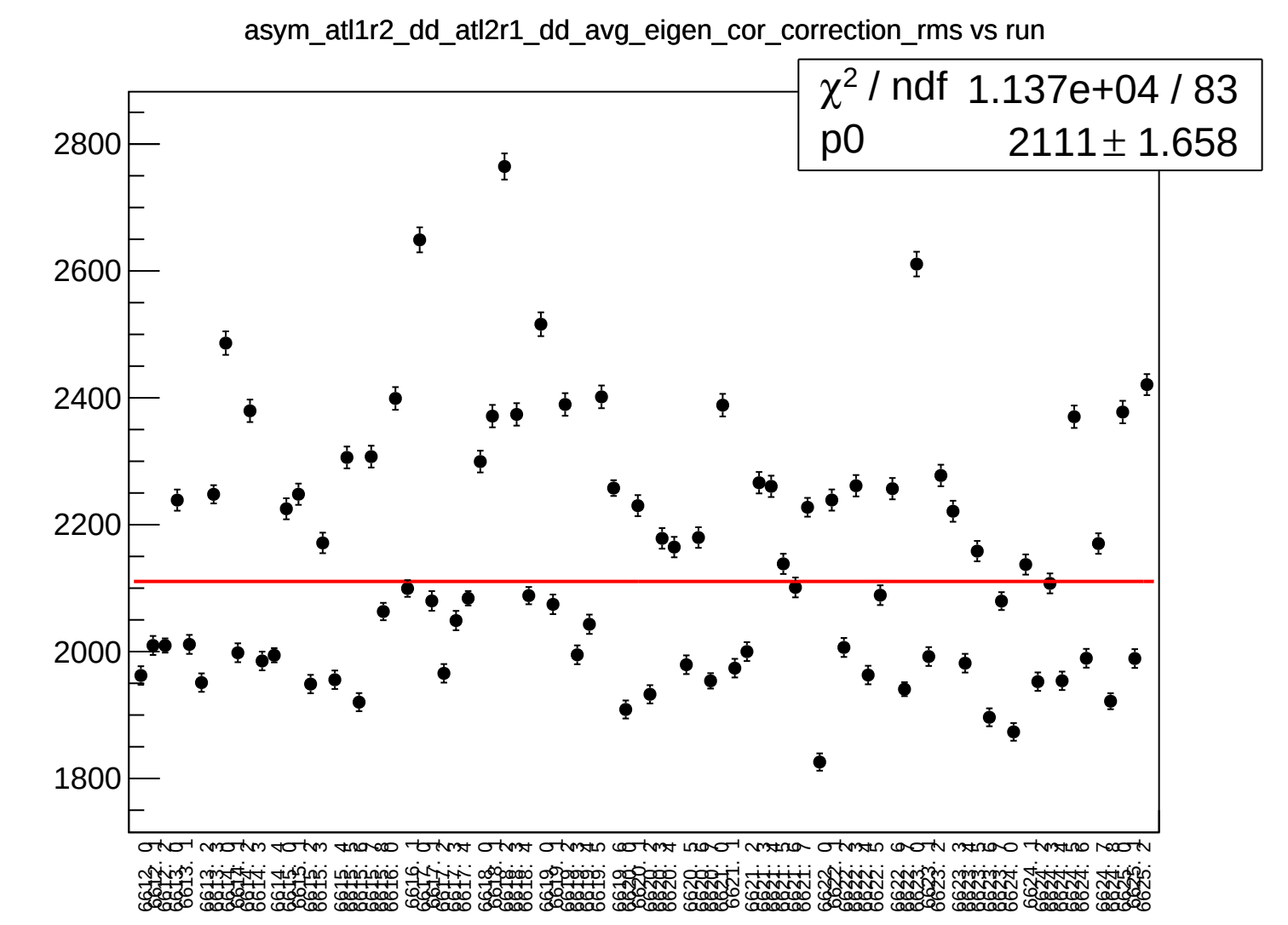

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 1.137e+04 / 83
p0 2111 ± 1.658
2800
2600
2400
2200
2000
1800

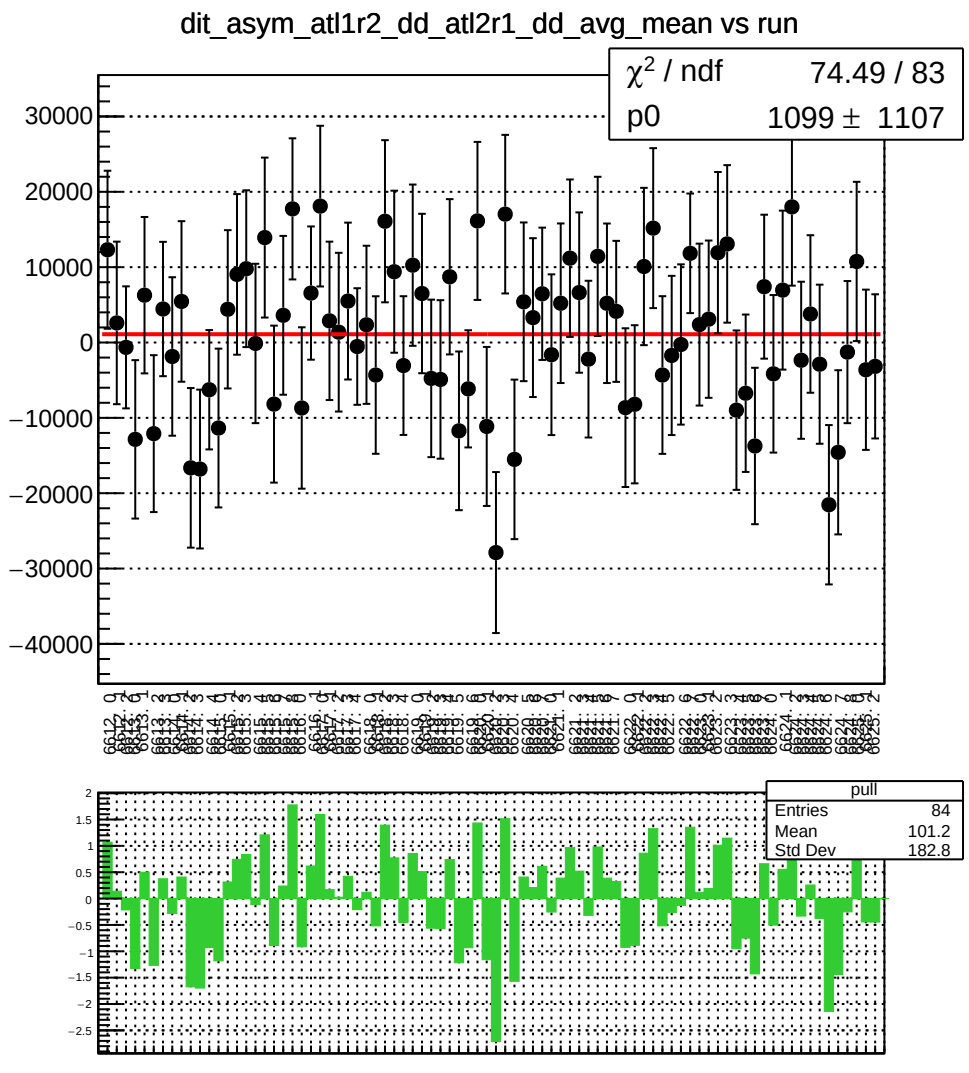

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 73.2 / 83
p0 1460 ± 2017
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 176.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

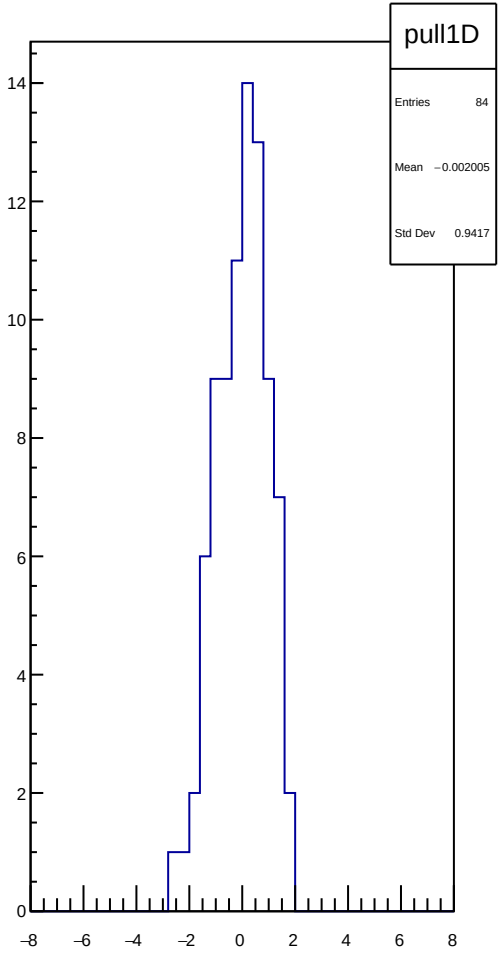

pull1D
Entries 84
Mean 0.01059
Std Dev 0.9334
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

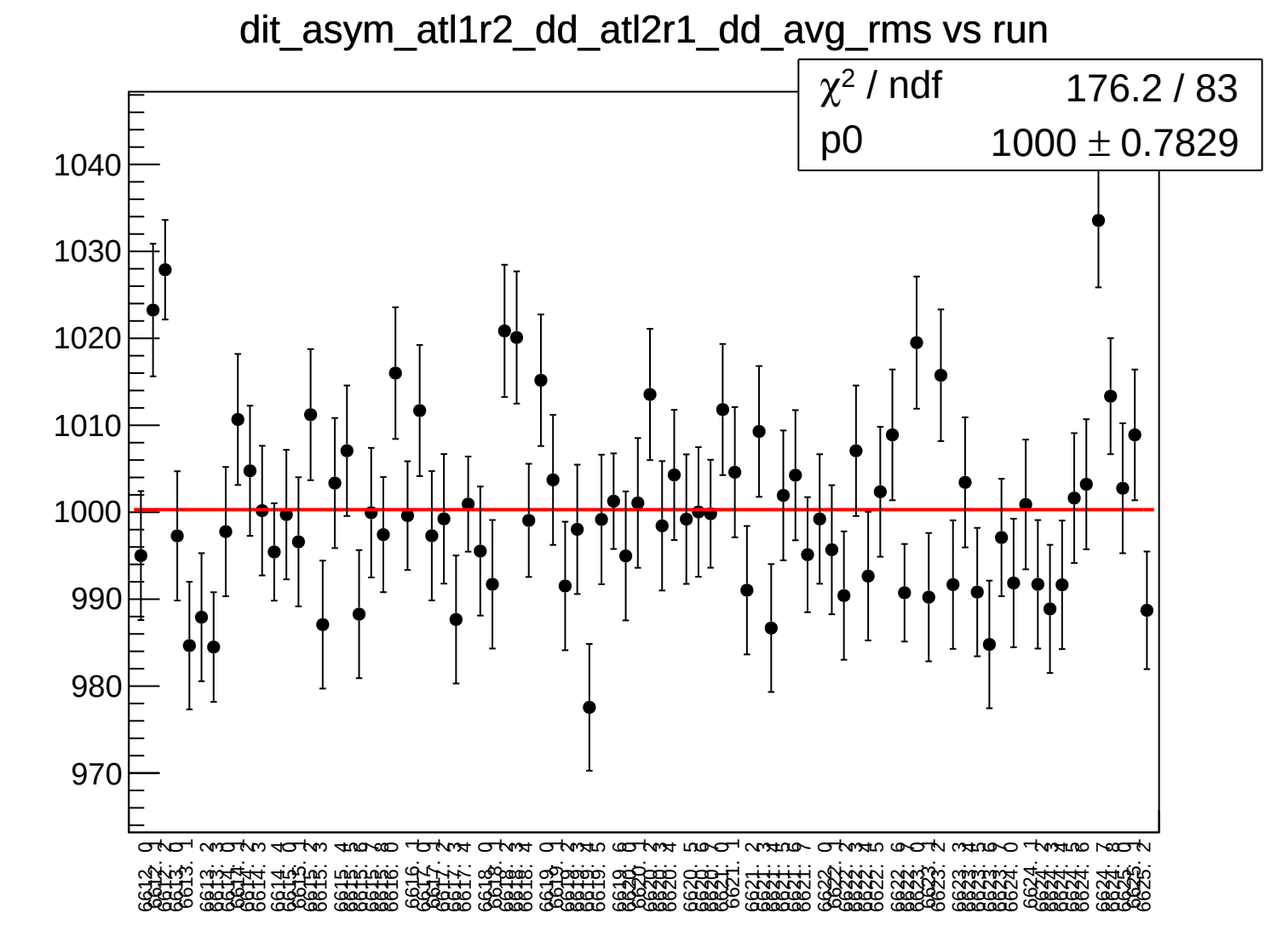

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 194.1 / 83
p0 1822 ± 1.426
1920
1900
1880
1860
1840
1820
1800
1780
1760

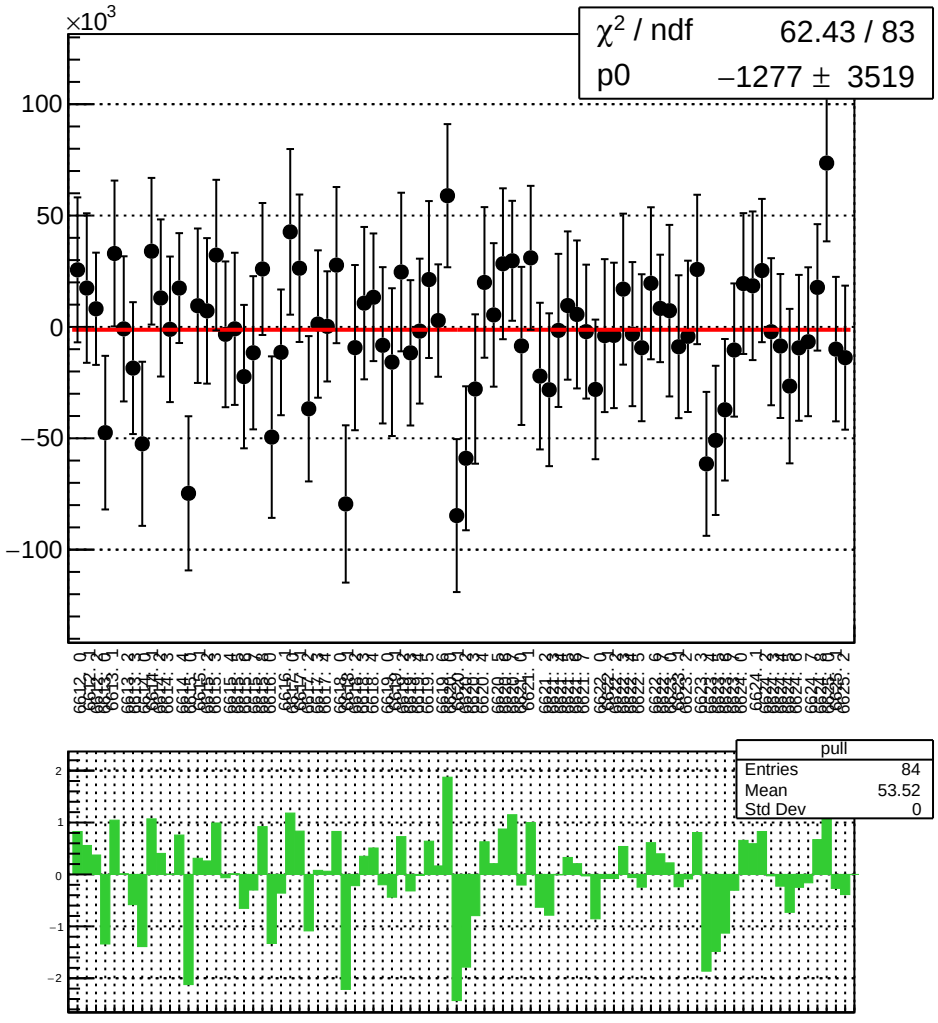

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.24 / 83
p0 −814.2 ± 2344
pull
Entries 84
Mean −61.27
Std Dev 0
pull1D
Entries 84
Mean −0.01207
Std Dev 0.94

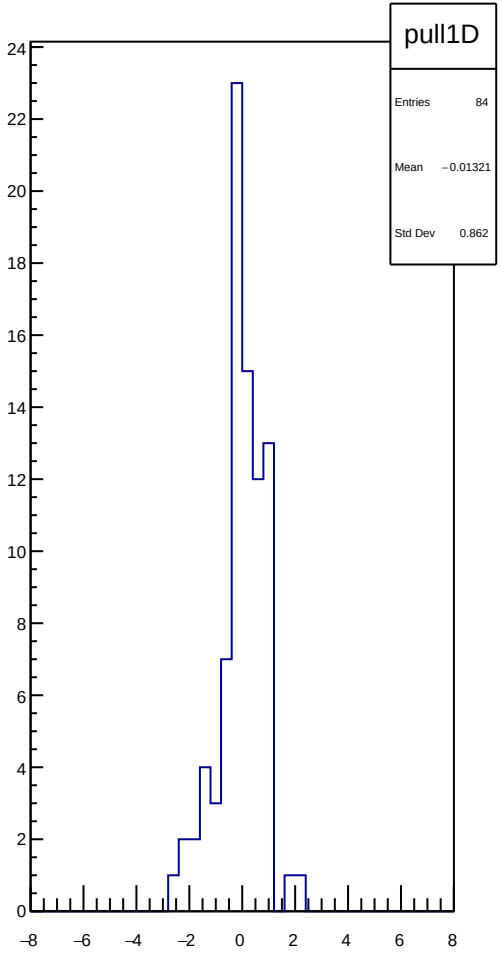

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.137e+04 / 83
p0 2111 ± 1.658
2800
2600
2400
2200
2000
1800

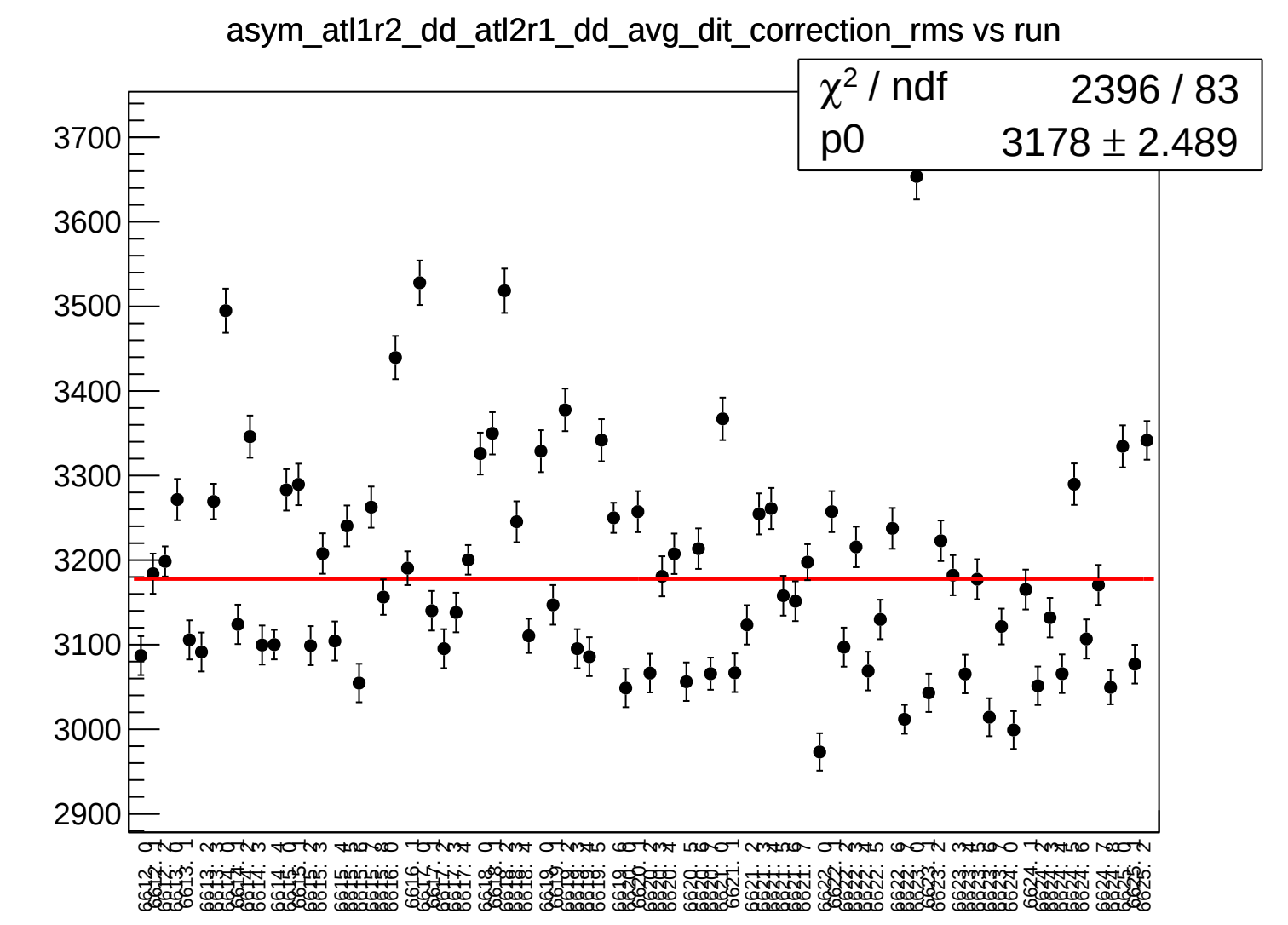

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 74.49 / 83
p0 1099 ± 1107
pull
Entries 84
Mean 101.2
Std Dev 182.8

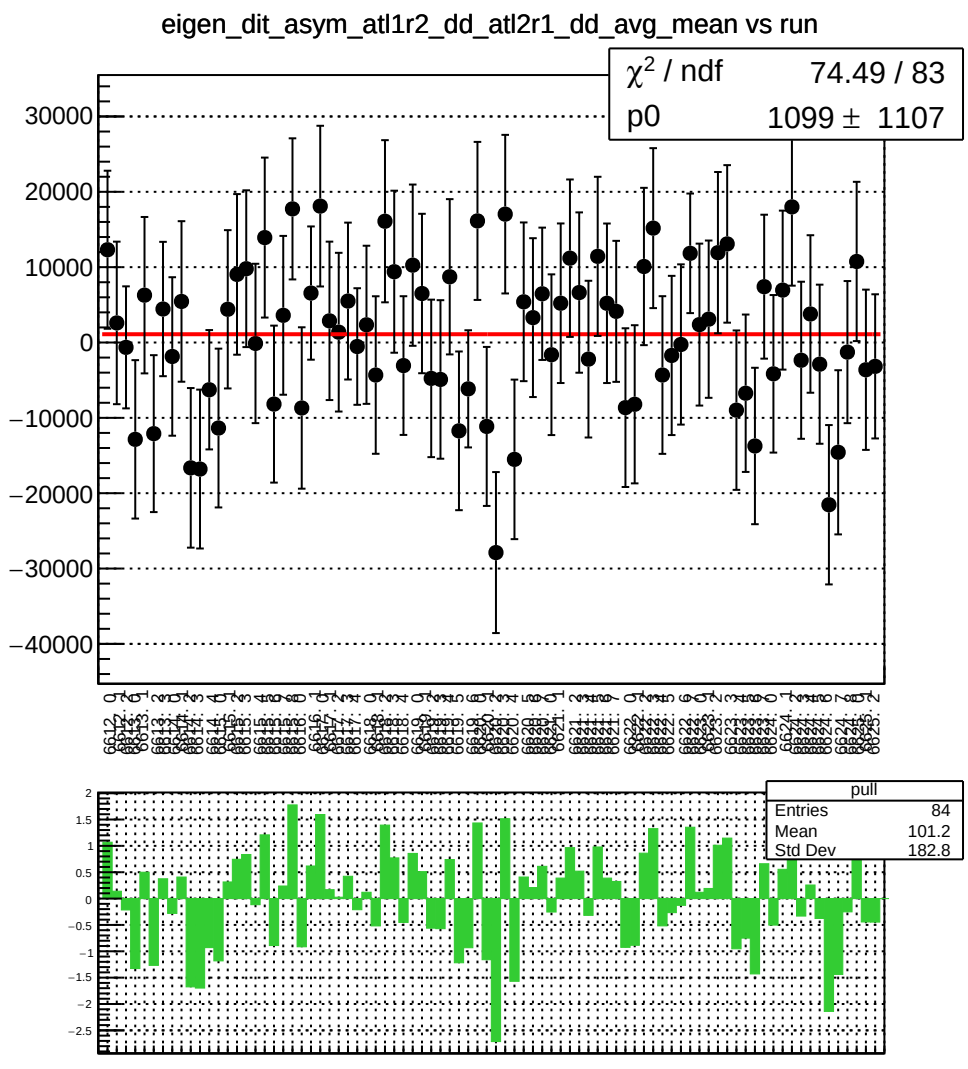

pull1D
Entries 84
Mean −0.002005
Std Dev 0.9417

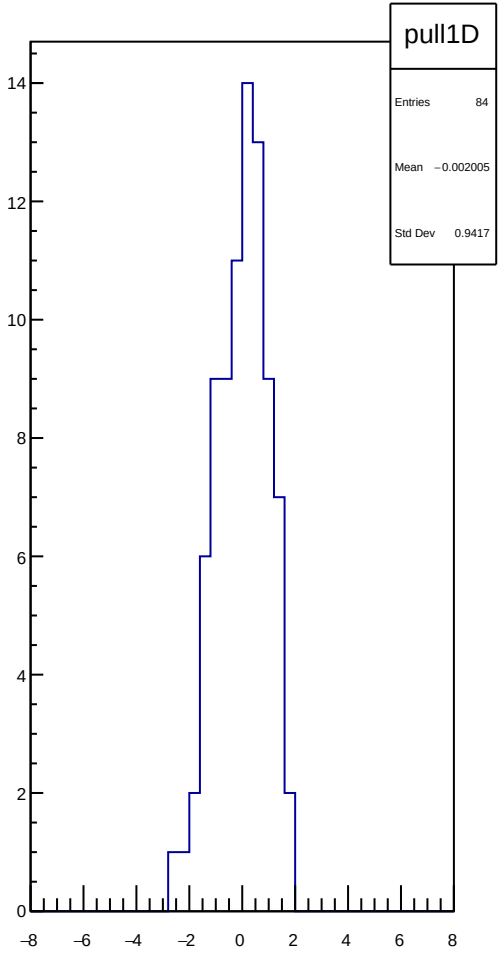

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 176.2 / 83
p0 1000 ± 0.7829
1040
1030
1020
1010
1000
990
980
970

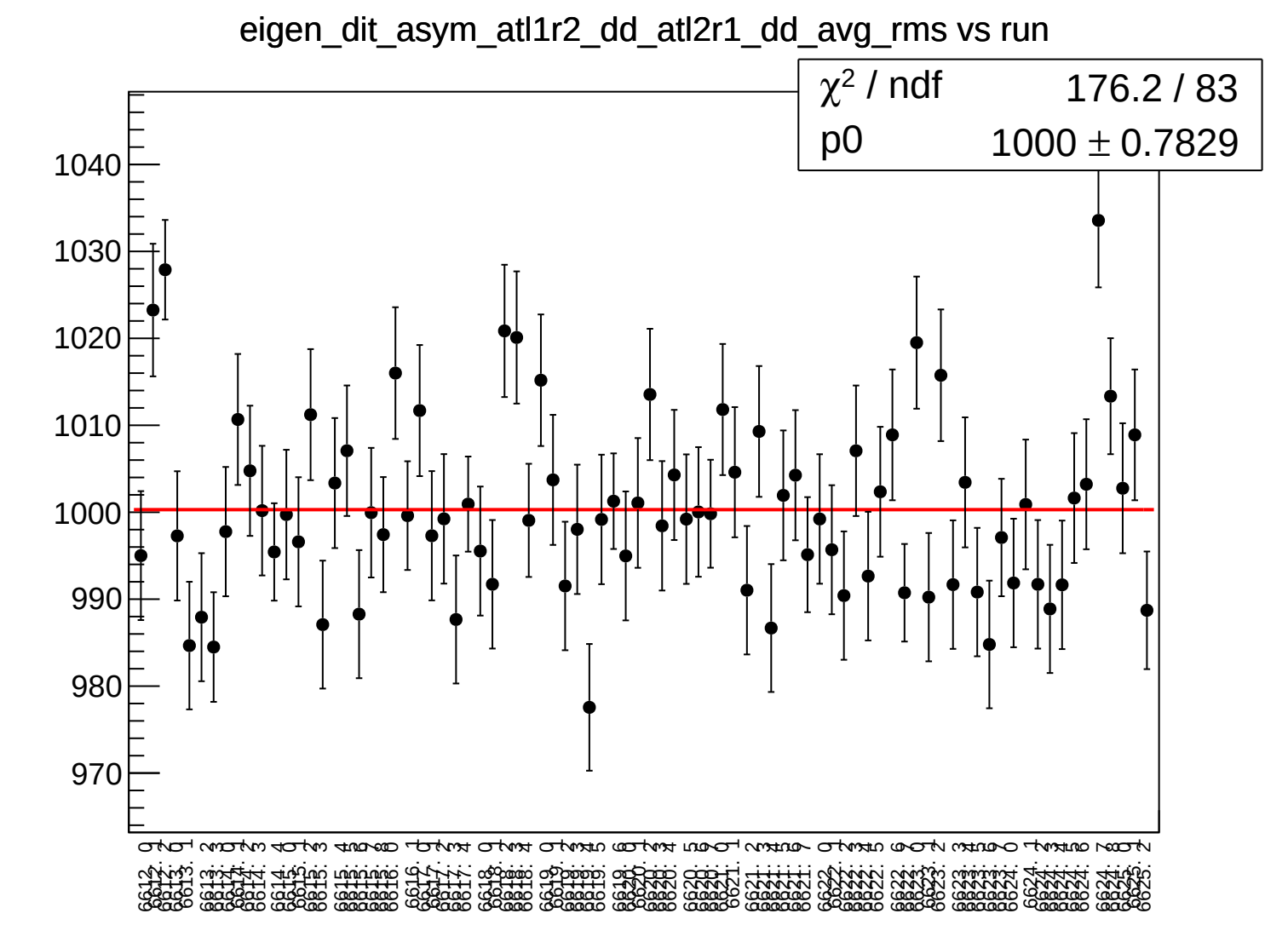

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 62.43 / 83
p0 −1277 ± 3519
100
50
0
−50
−100
pull
Entries 84
Mean 53.52
Std Dev 0
2
1
0
−1
−2

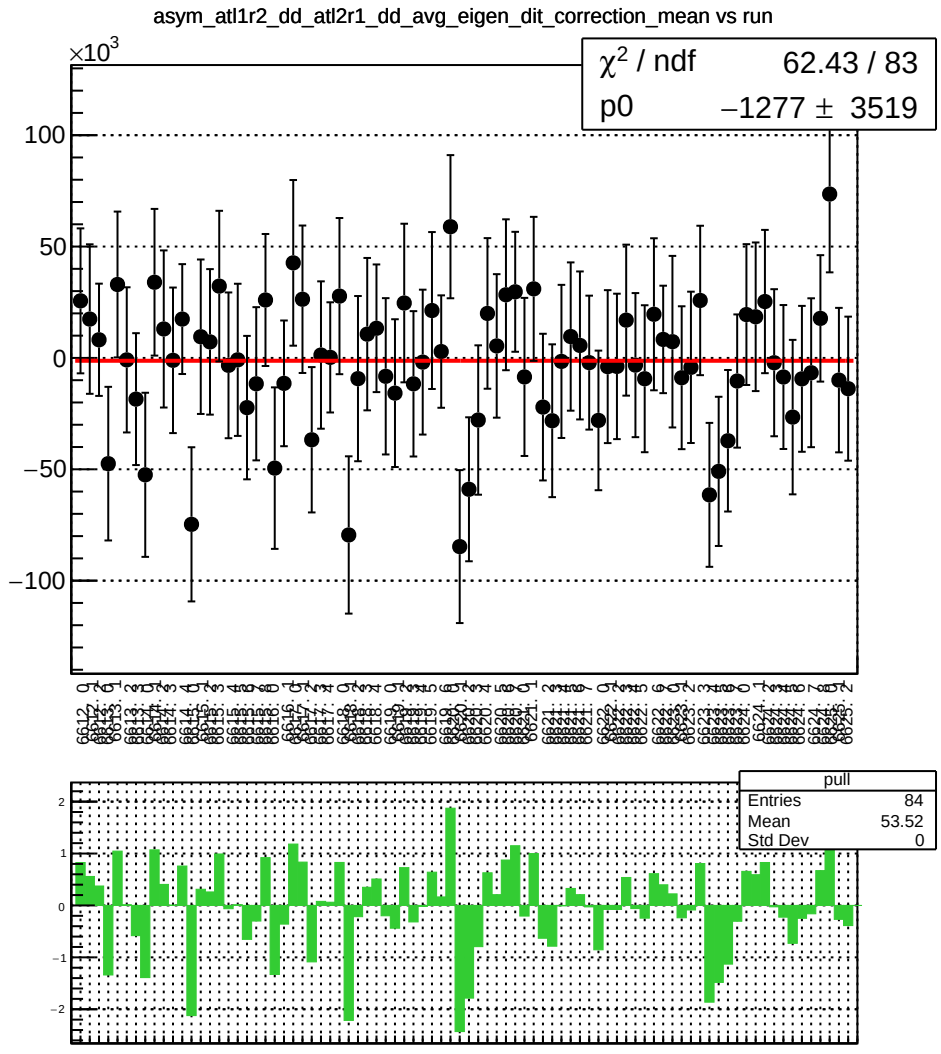

pull1D
Entries 84
Mean −0.01321
Std Dev 0.862
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

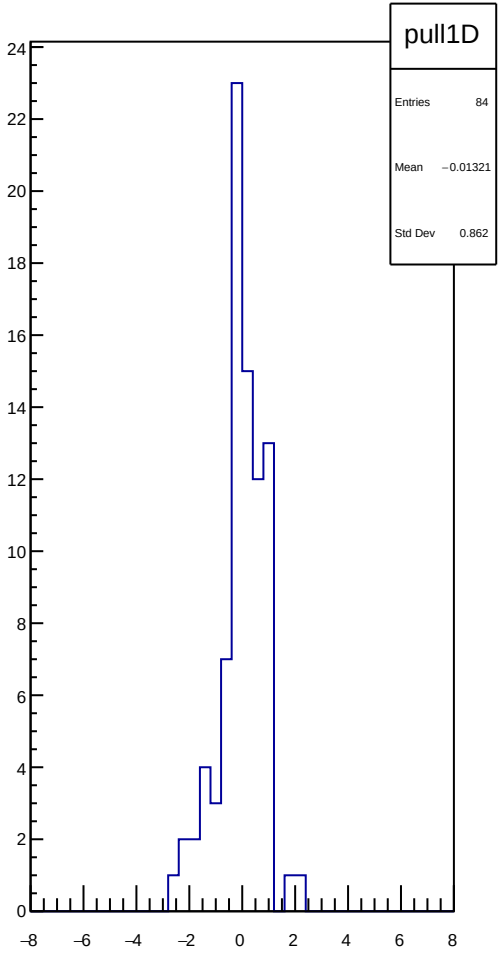

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 2396 / 83
p0 3178 ± 2.489
3700
3600
3500
3400
3300
3200
3100
3000
2900

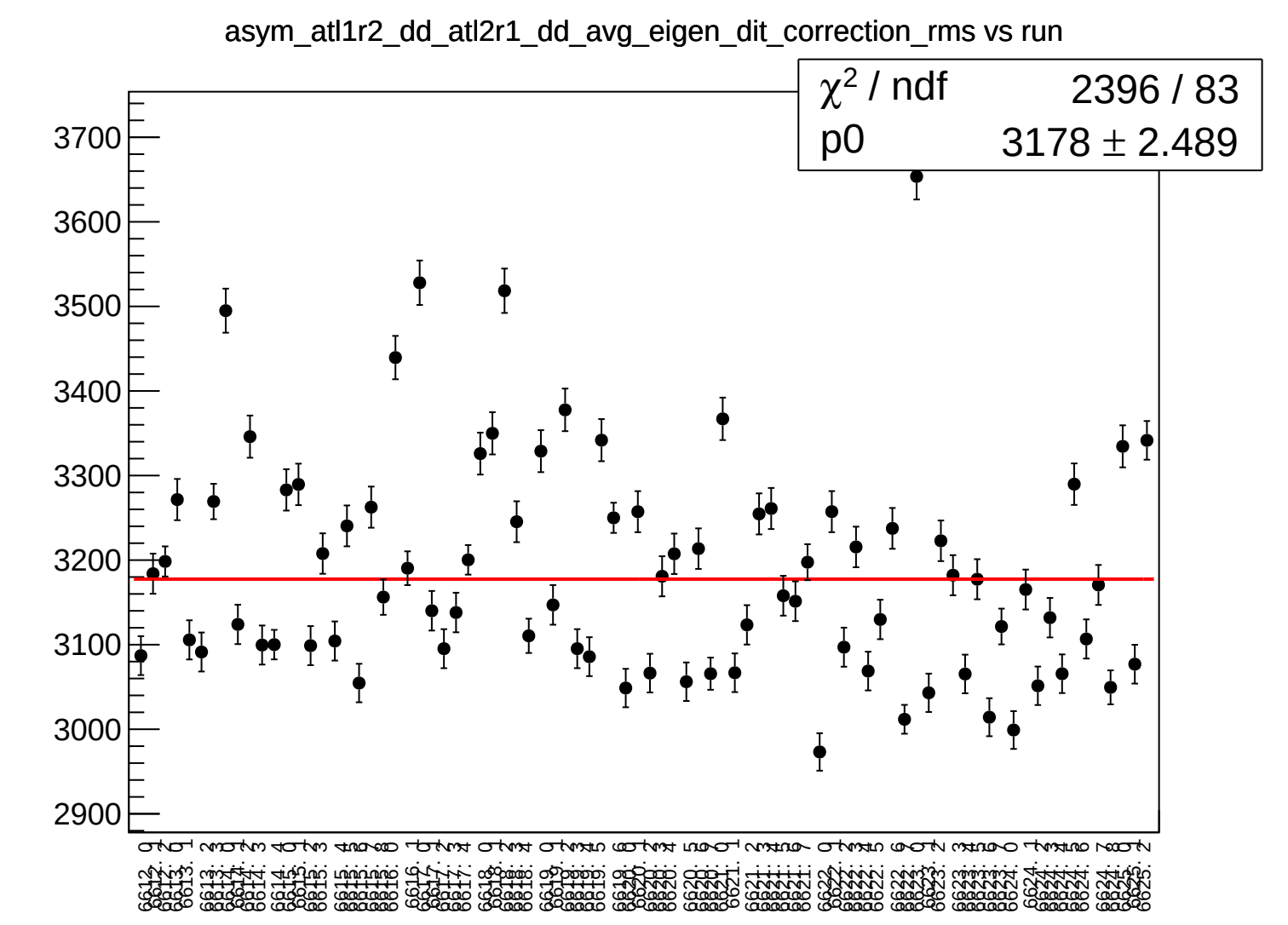

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 74.49 / 83
p0 1099 ± 1107
pull
Entries 84
Mean 101.2
Std Dev 182.8

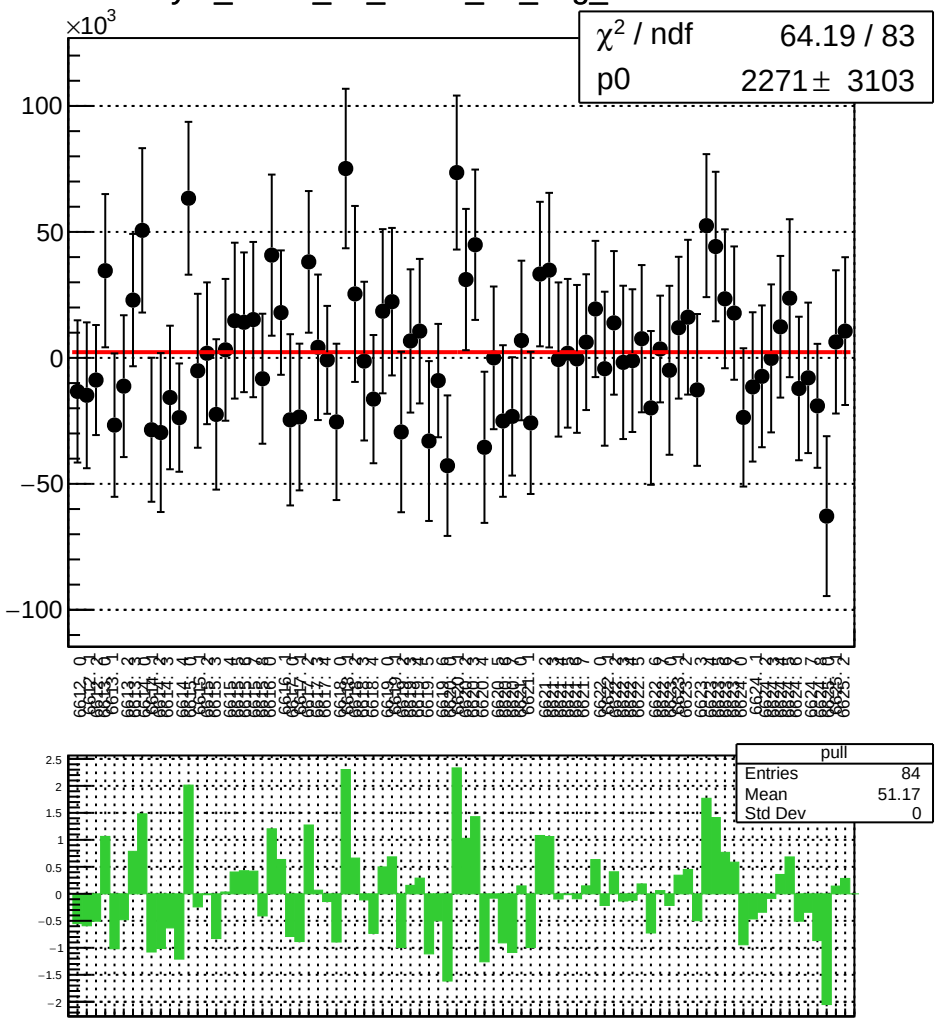

pull1D
Entries 84
Mean −0.002005
Std Dev 0.9417

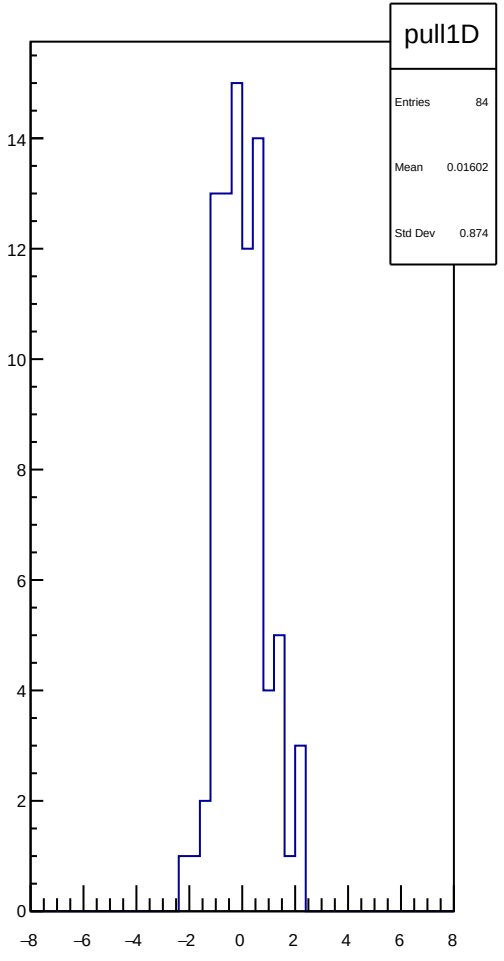

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 176.2 / 83
p0 1000 ± 0.7829
1040
1030
1020
1010
1000
990
980
970

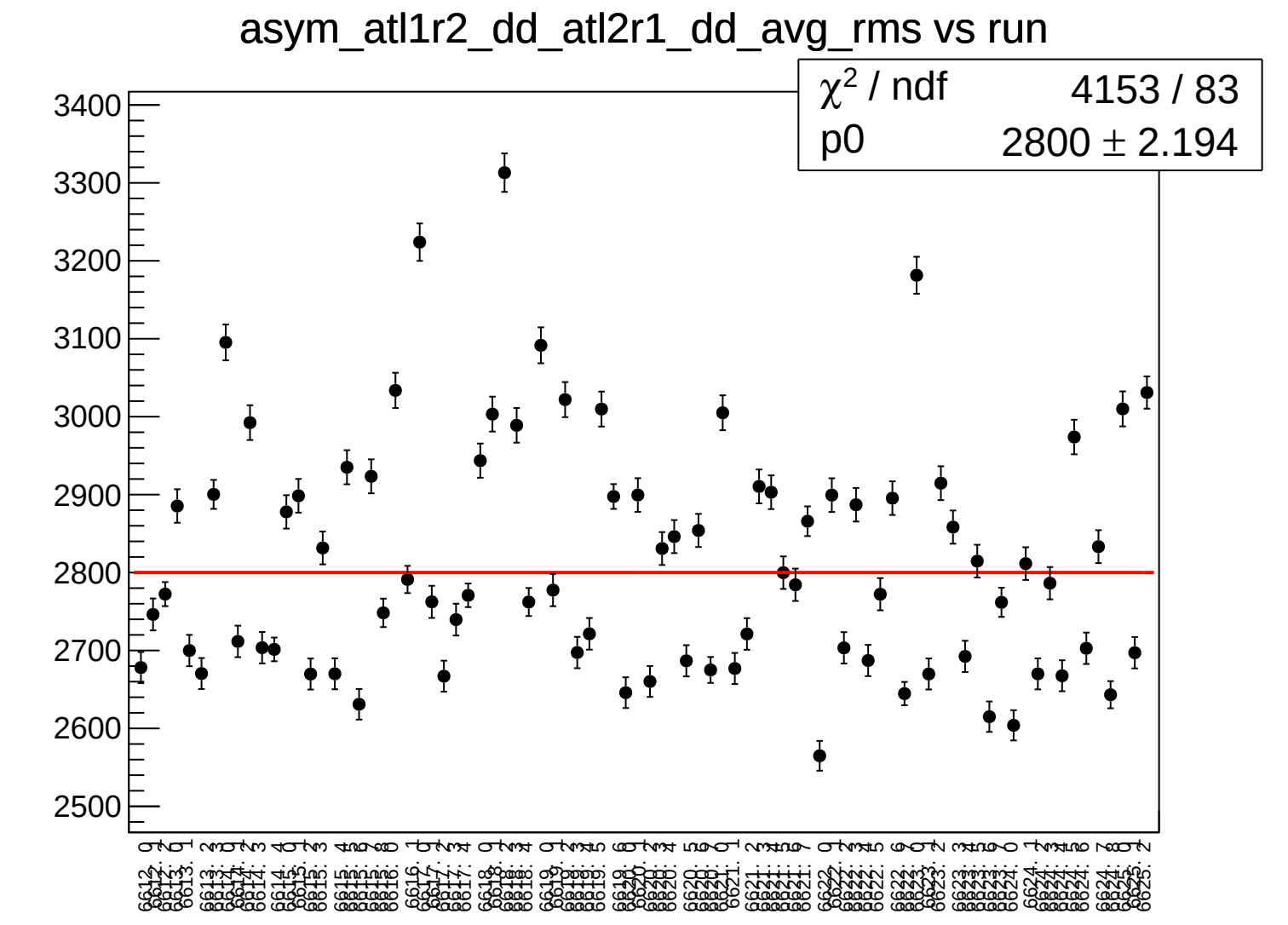

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 62.43 / 83
p0 −1277 ± 3519
100
50
0
−50
−100
pull
Entries 84
Mean 53.52
Std Dev 0
2
1
0
−1
−2

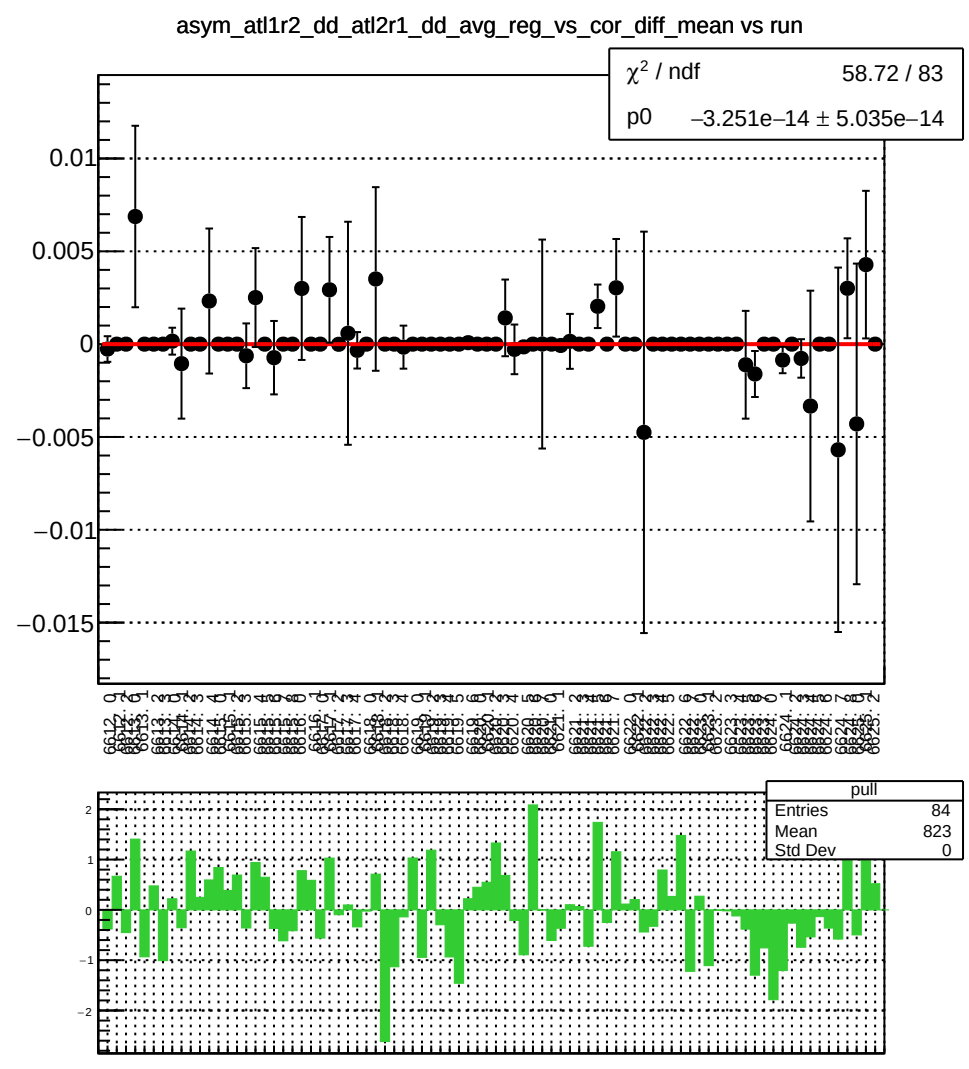

pull1D
Entries 84
Mean −0.01321
Std Dev 0.862
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

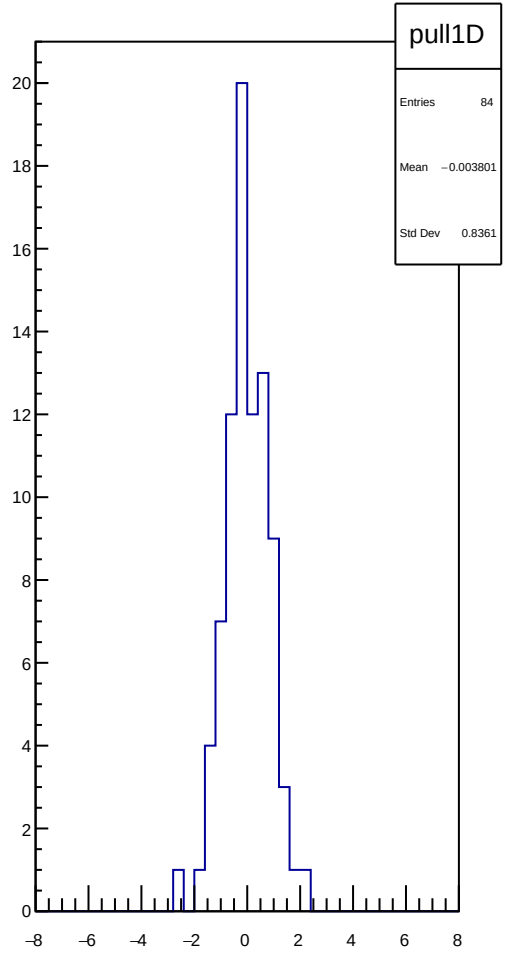

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2396 / 83
p0 3178 ± 2.489
3700
3600
3500
3400
3300
3200
3100
3000
2900

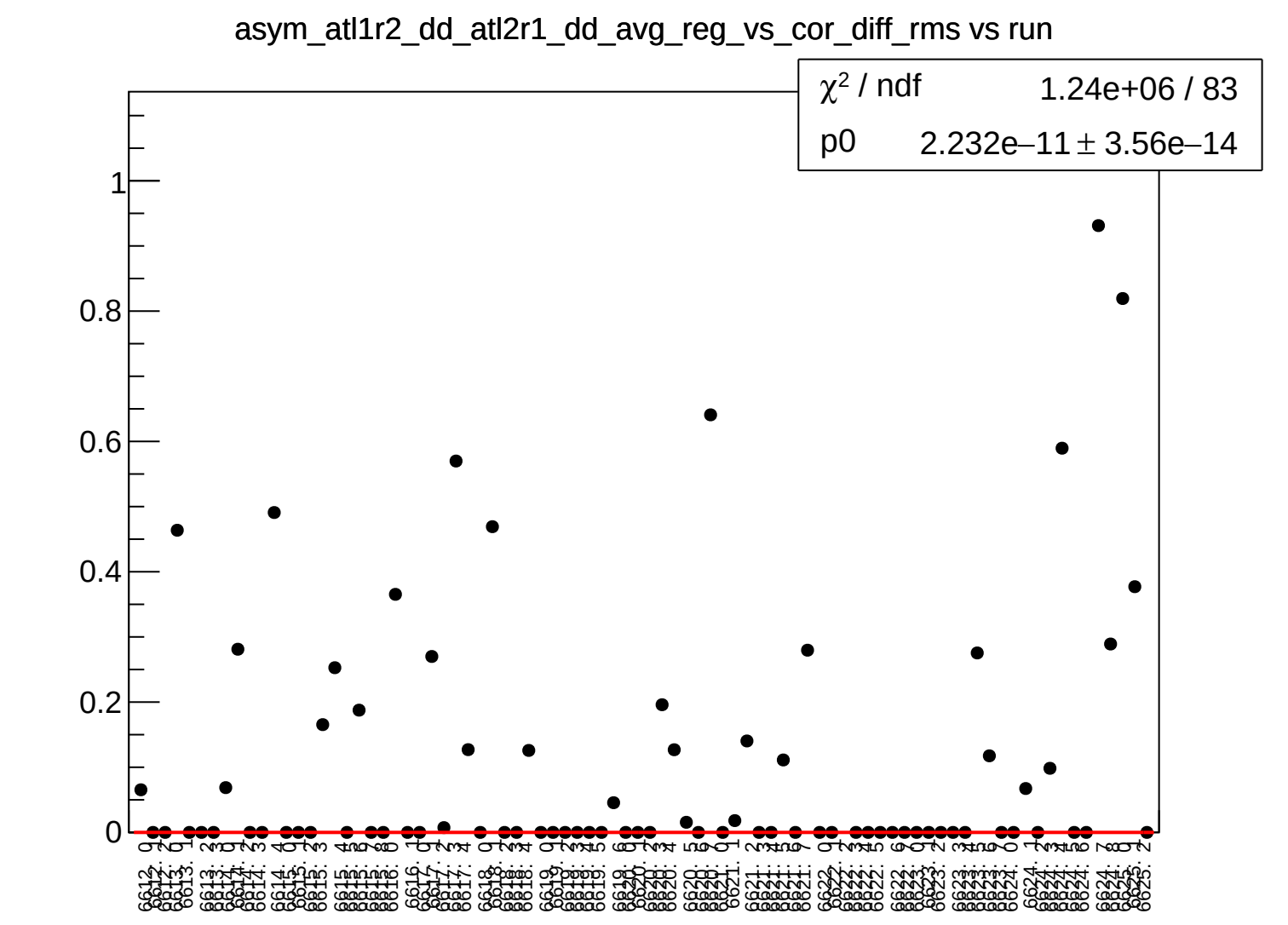

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ² / ndf 64.19 / 83
p0 2271 ± 3103
100
50
0
−50
−100
pull
Entries 84
Mean 51.17
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

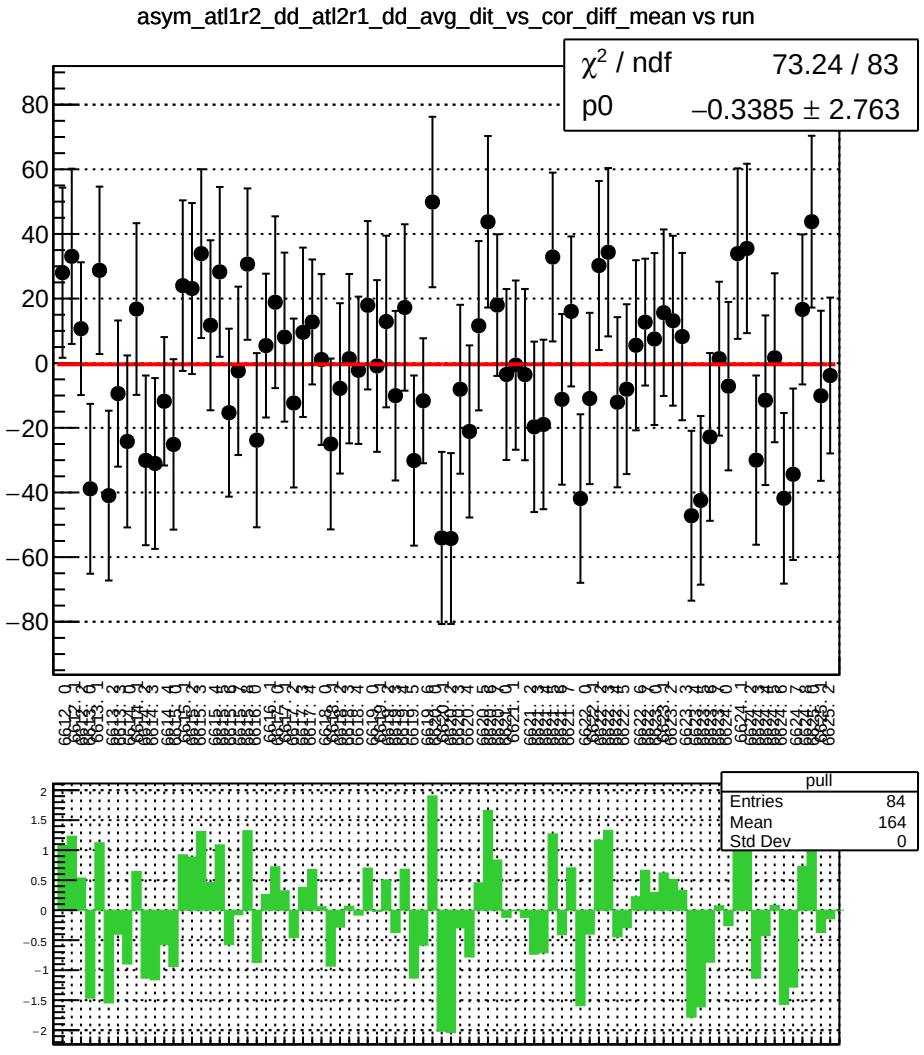

pull1D
Entries 84
Mean 0.01602
Std Dev 0.874
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

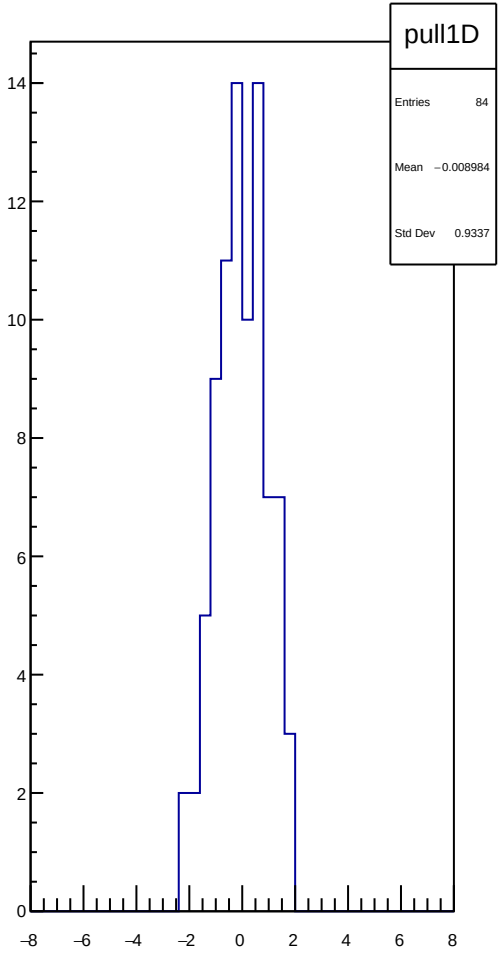

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 4153 / 83
p0 2800 ± 2.194
3400
3300
3200
3100
3000
2900
2800
2700
2600
2500

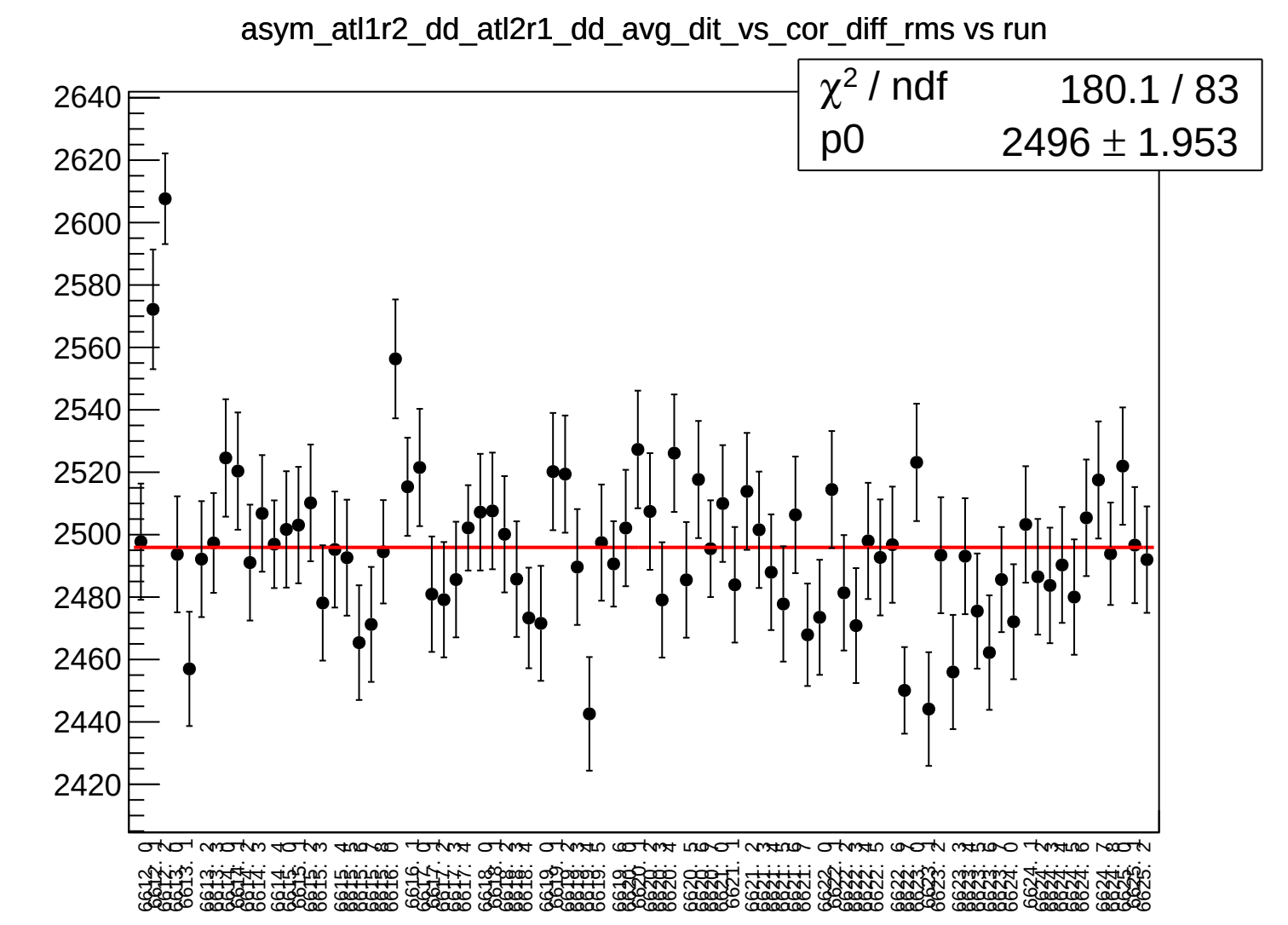

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 58.72 / 83
p0 −3.251e−14 ± 5.035e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 84
Mean 823
Std Dev 0
2
1
0
−1
−2

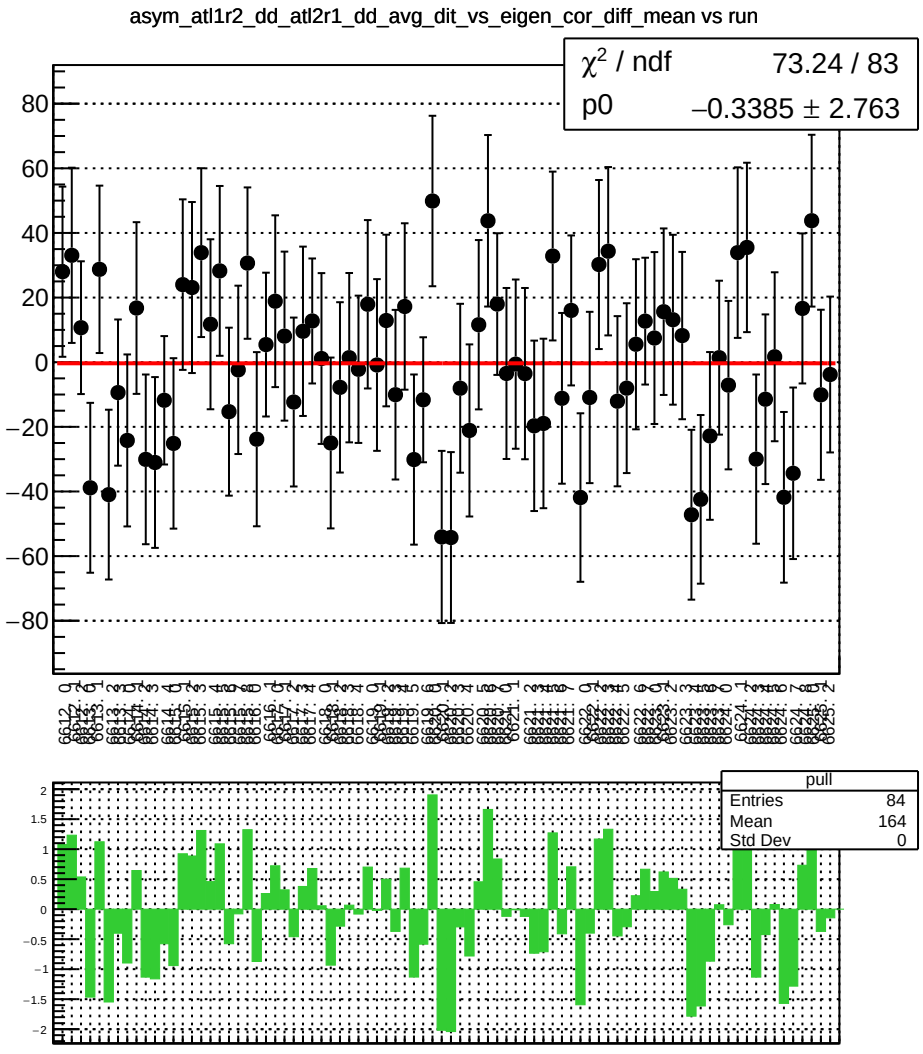

pull1D
Entries 84
Mean −0.003801
Std Dev 0.8361
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

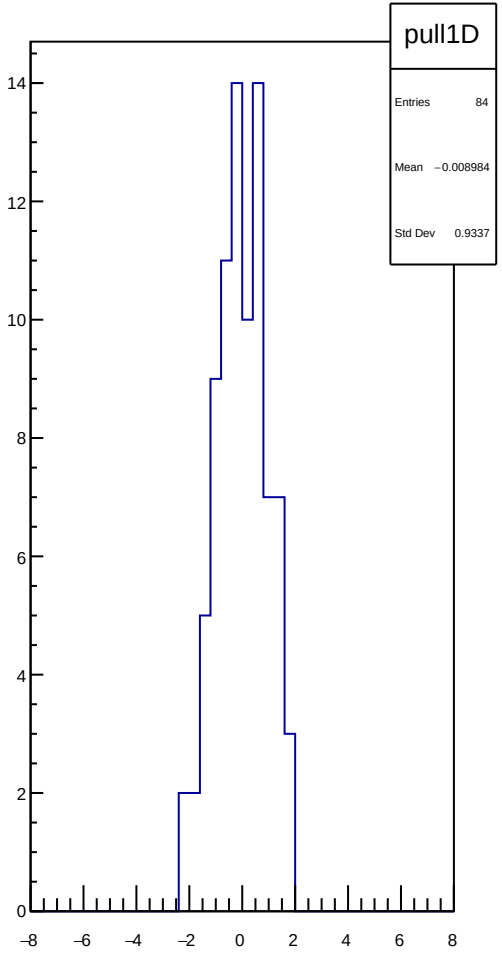

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.24e+06 / 83
p0 2.232e−11 ± 3.56e−14
1
0.8
0.6
0.4
0.2
0

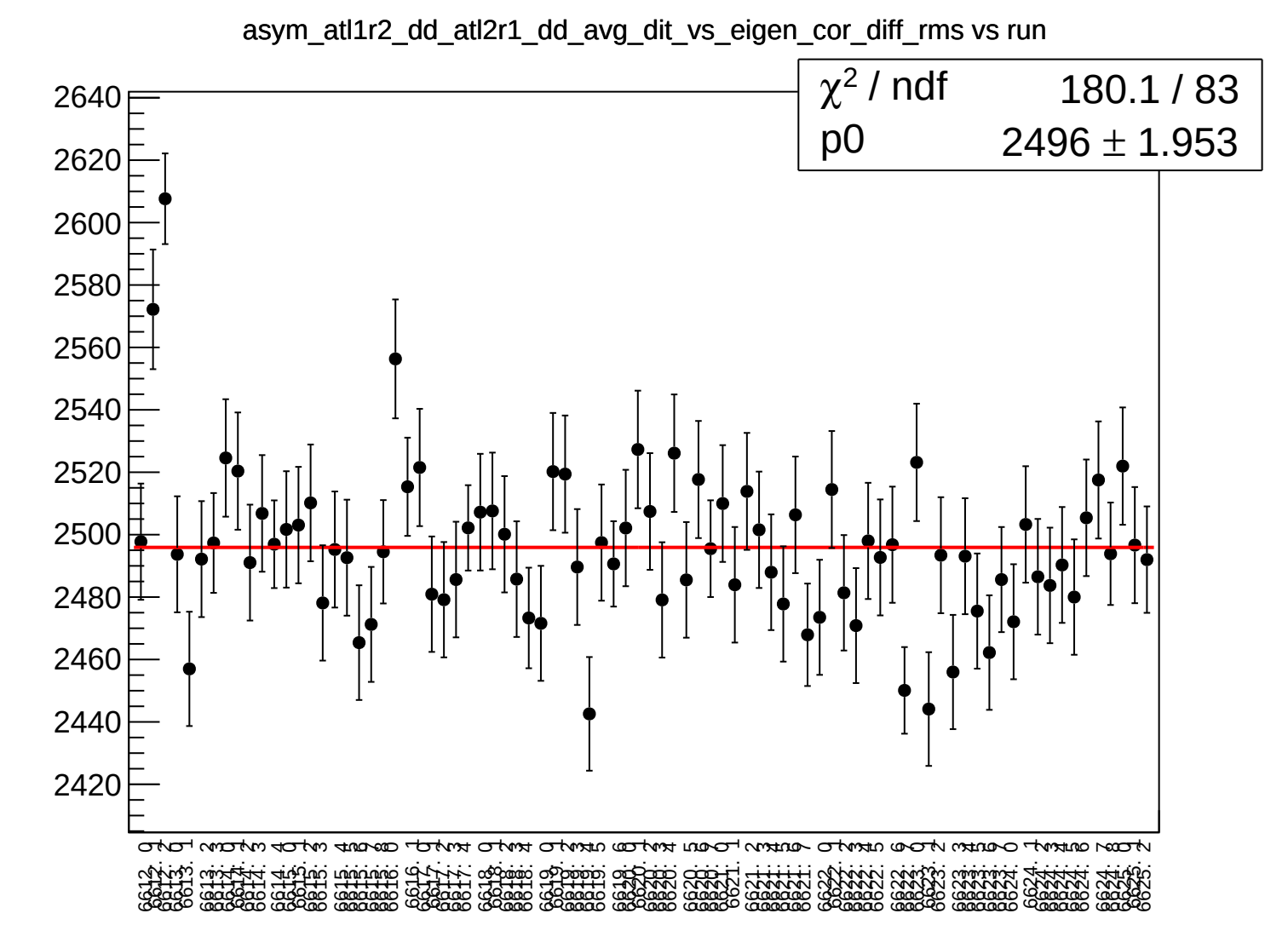

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.24 / 83
p0 −0.3385 ± 2.763
pull
Entries 84
Mean 164
Std Dev 0

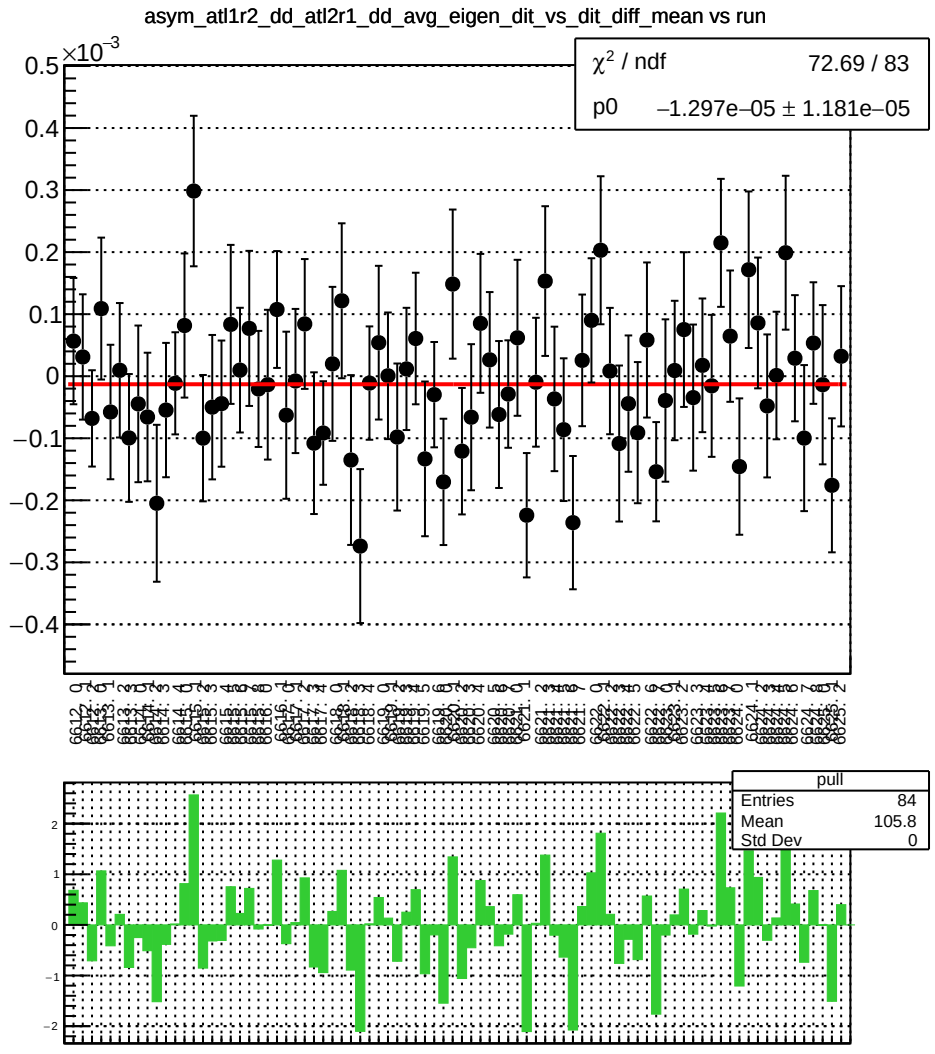

pull1D
Entries 84
Mean −0.008984
Std Dev 0.9337

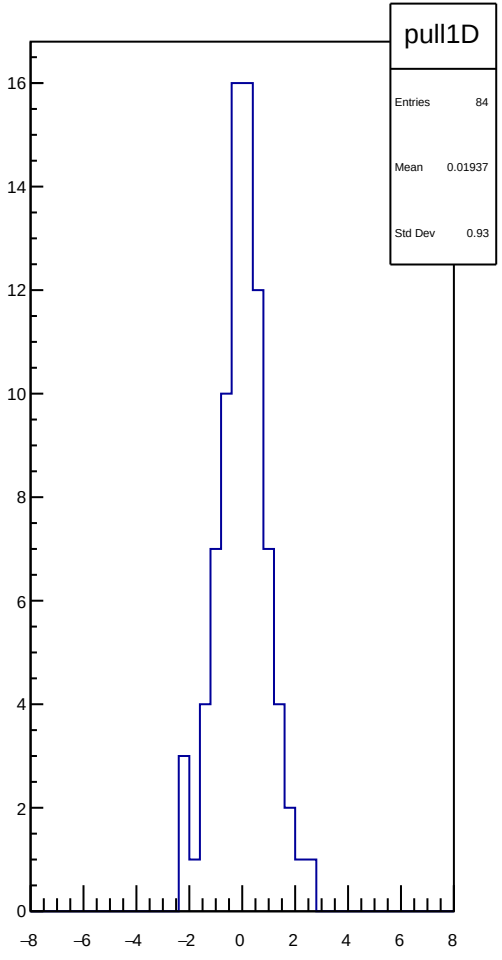

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 180.1 / 83
p0 2496 ± 1.953
2640
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

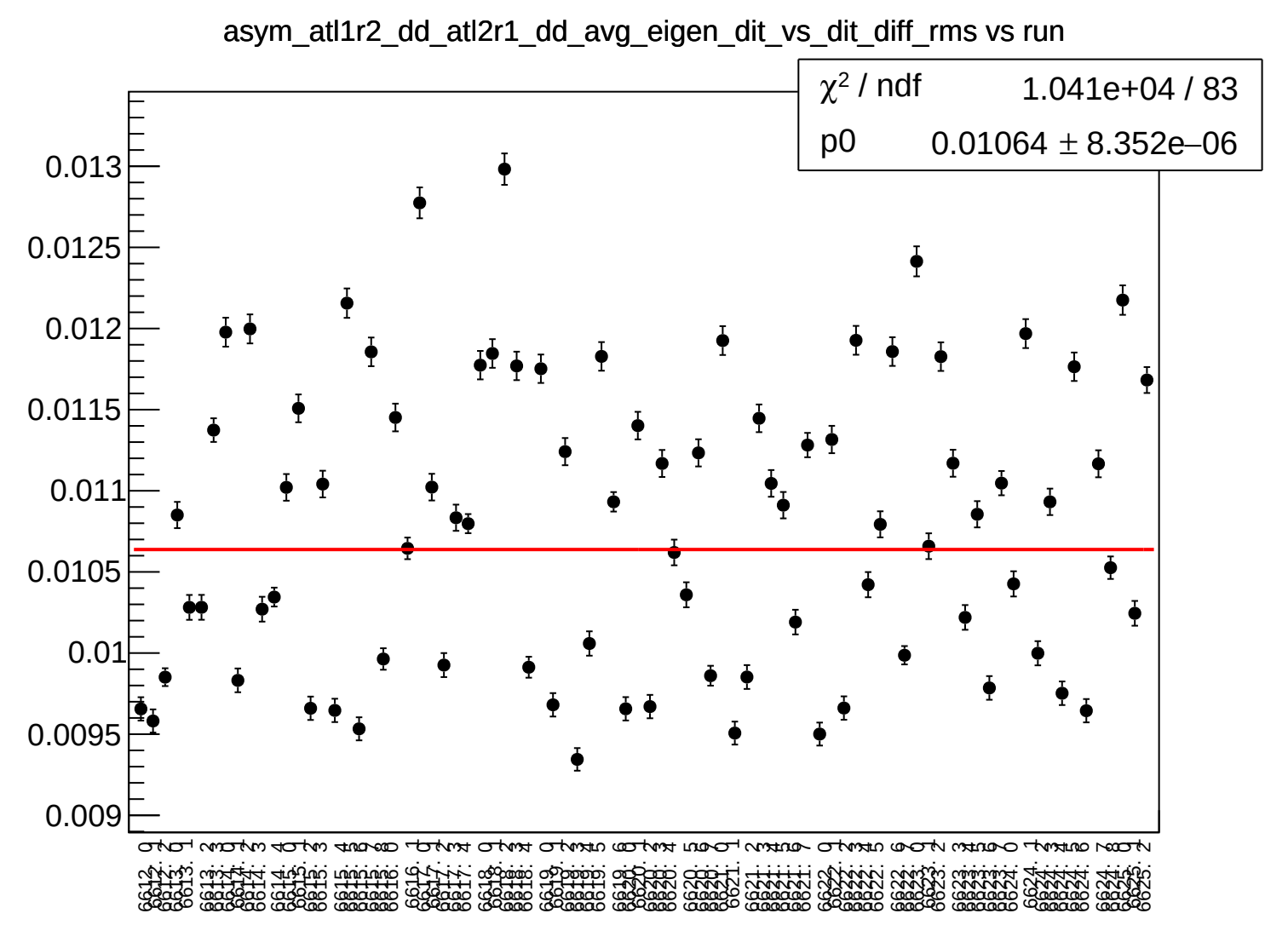

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.24 / 83
p0 −0.3385 ± 2.763
pull
Entries 84
Mean 164
Std Dev 0

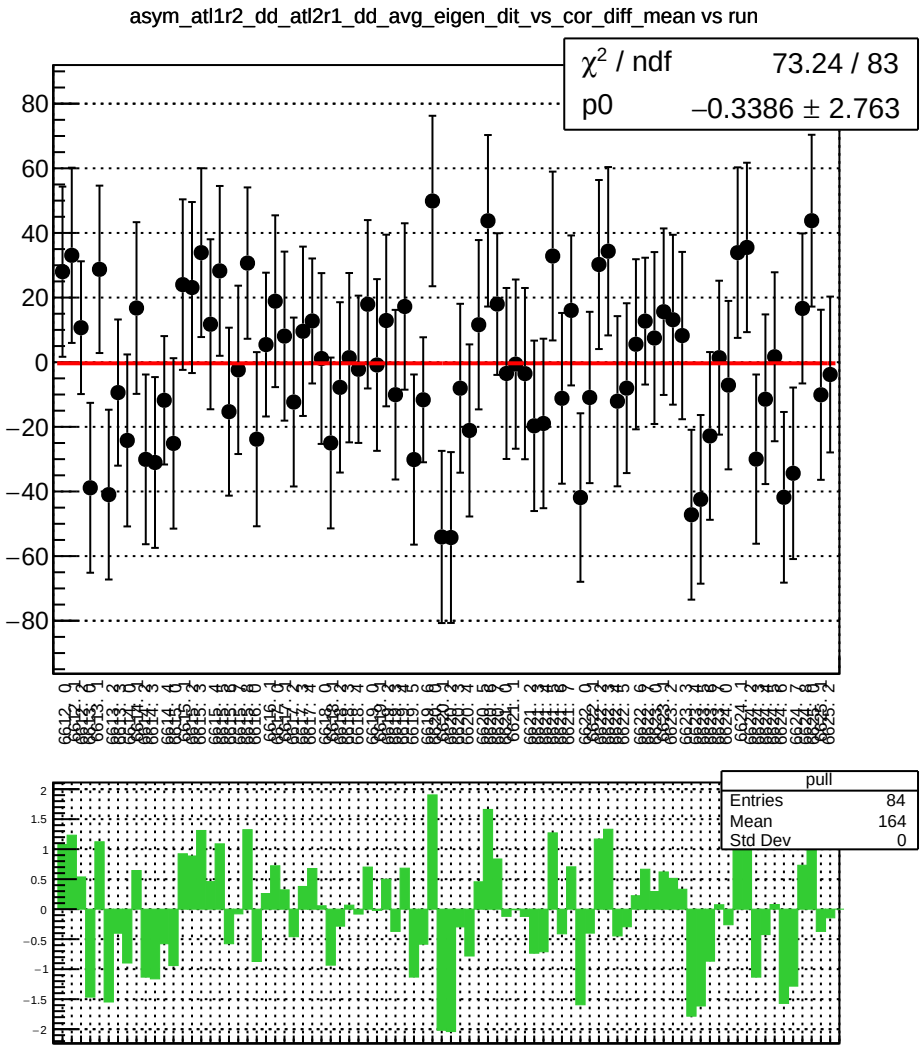

pull1D
Entries 84
Mean −0.008984
Std Dev 0.9337

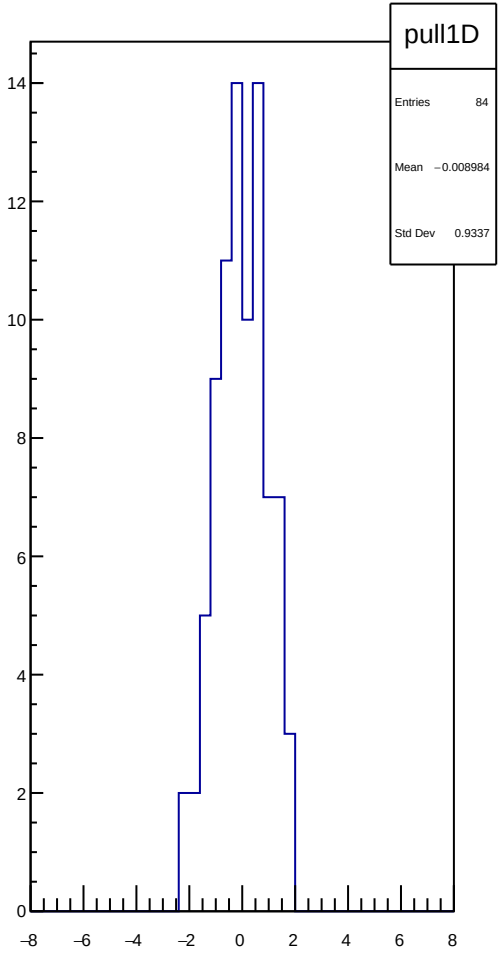

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 180.1 / 83
p0 2496 ± 1.953
2640
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

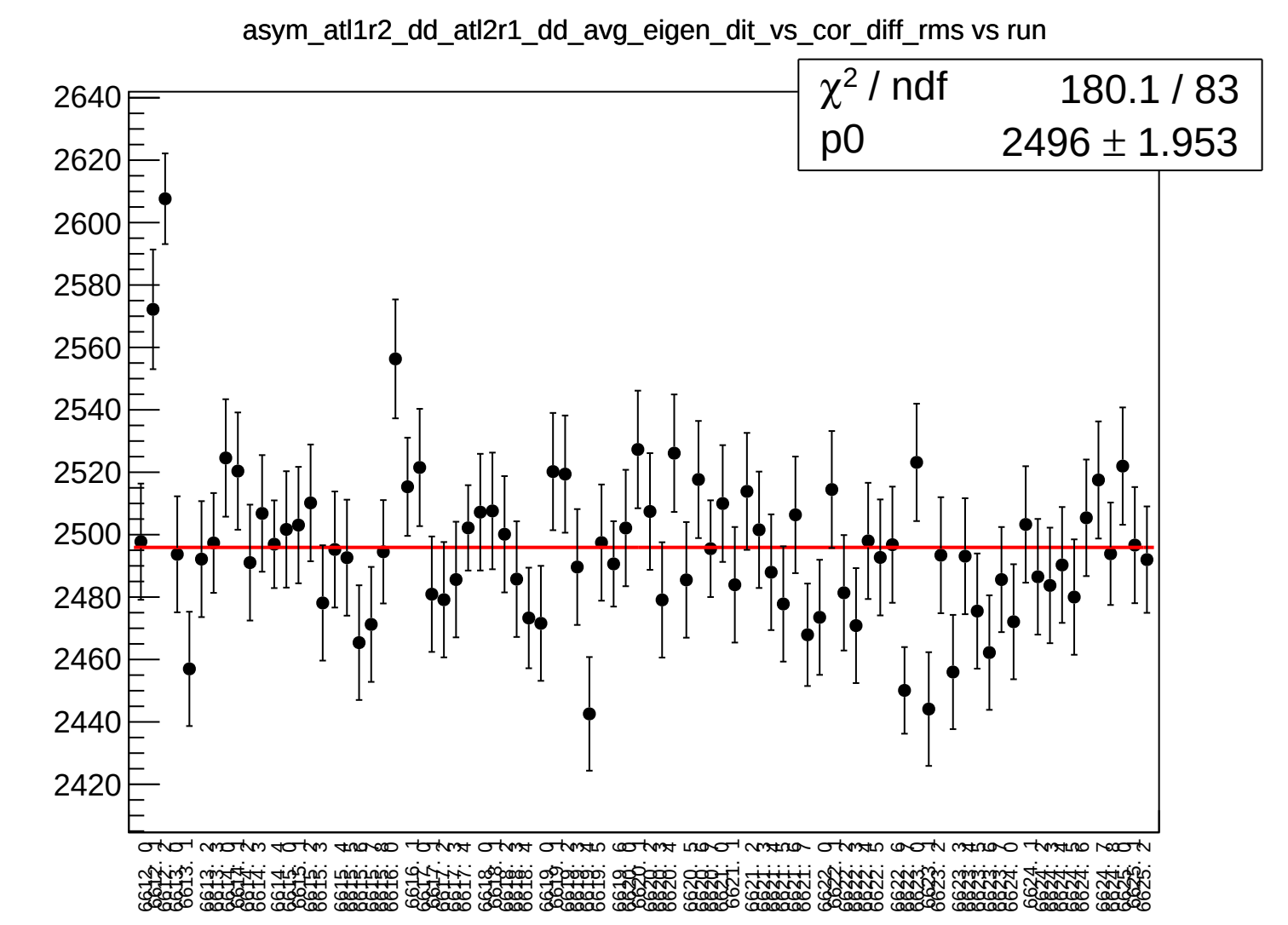

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.69 / 83
p0 −1.297e−05 ± 1.181e−05
pull
Entries 84
Mean 105.8
Std Dev 0

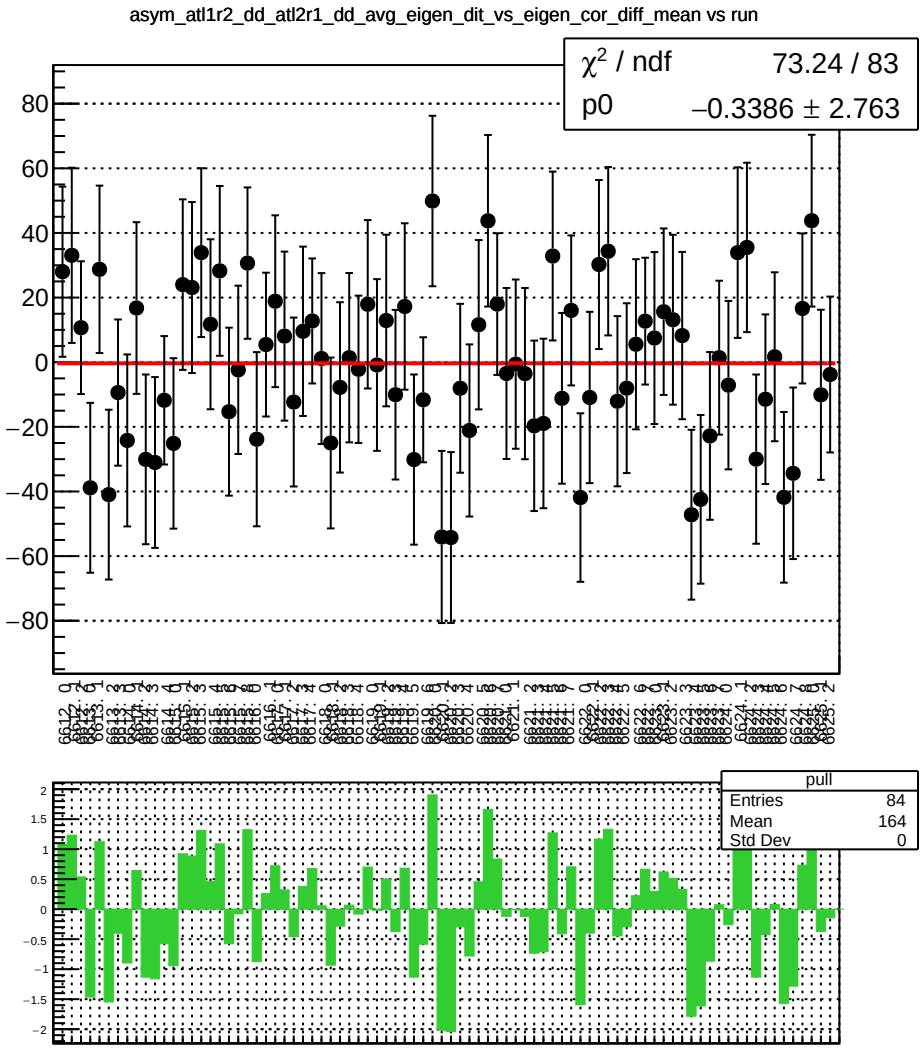

pull1D
Entries 84
Mean 0.01937
Std Dev 0.93

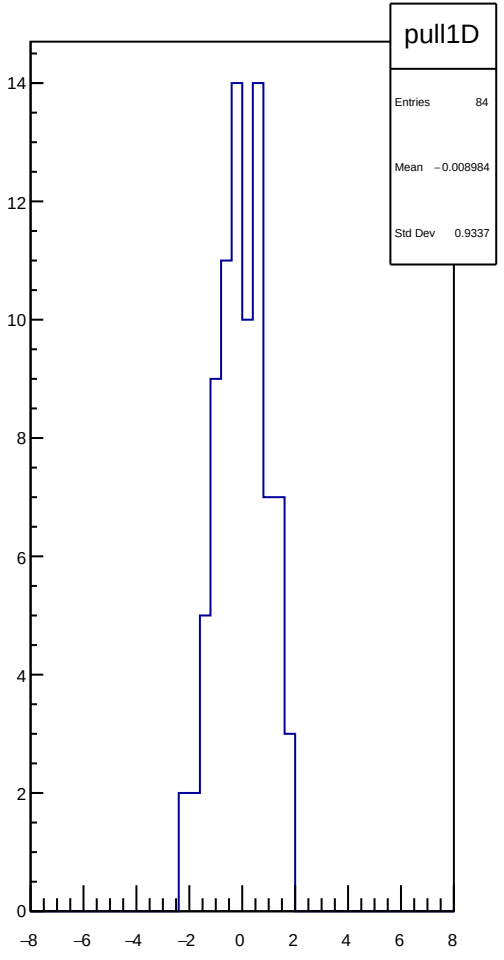

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.041e+04 / 83
p0 0.01064 ± 8.352e–06
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

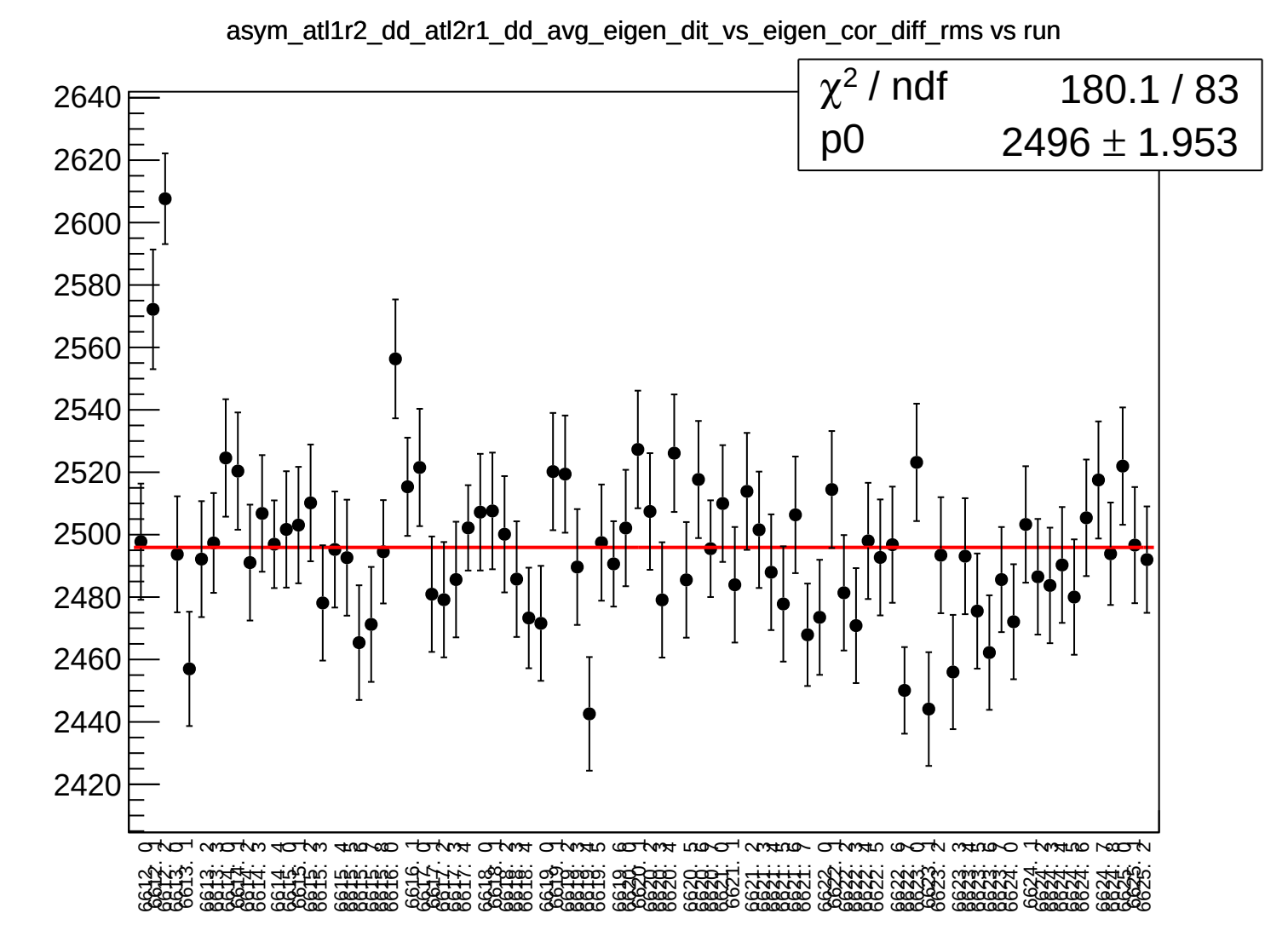

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.24 / 83
p0 −0.3386 ± 2.763
pull
Entries 84
Mean 164
Std Dev 0

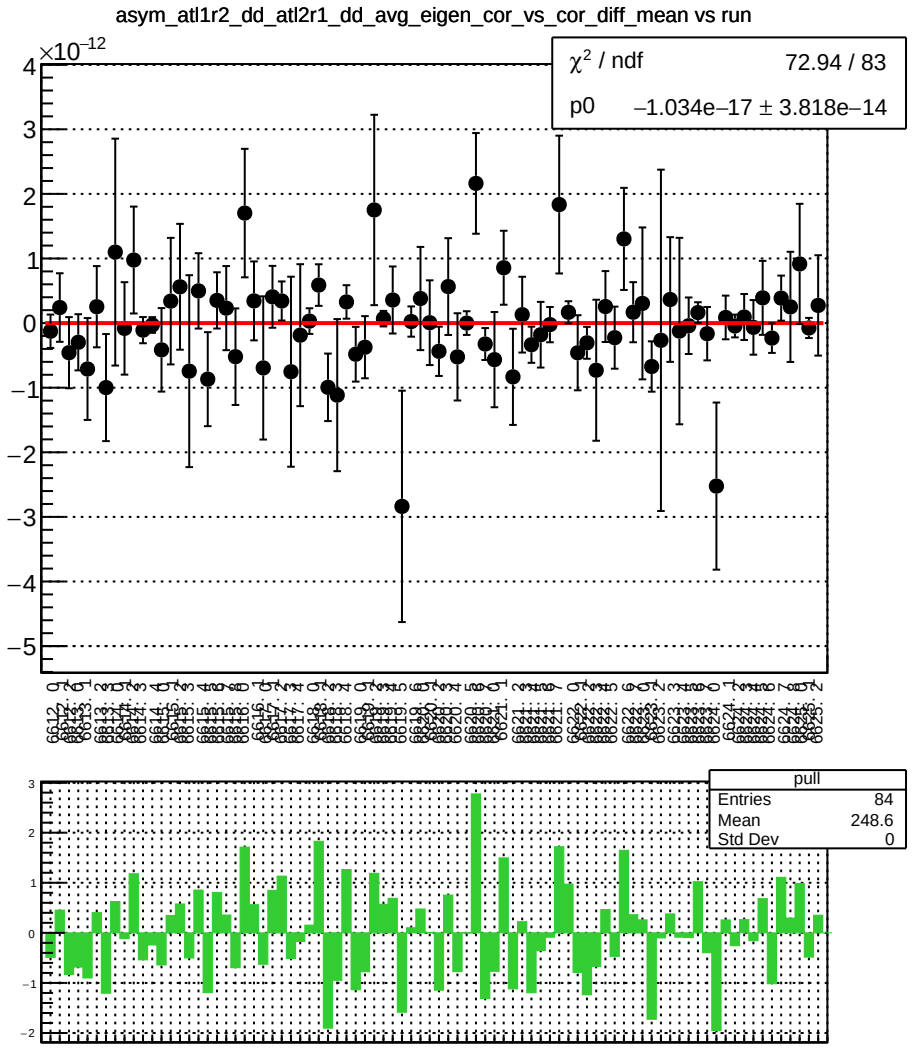

pull1D
Entries 84
Mean −0.008984
Std Dev 0.9337

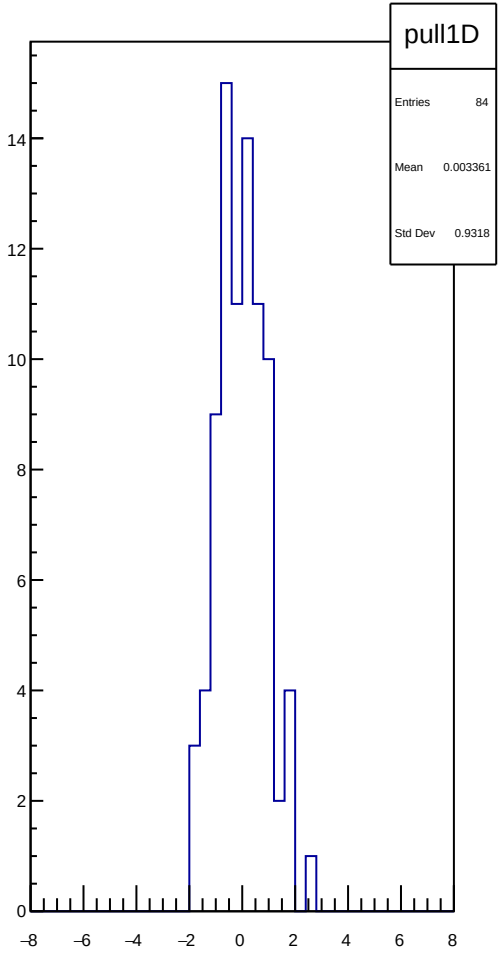

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 180.1 / 83
p0 2496 ± 1.953
2640
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

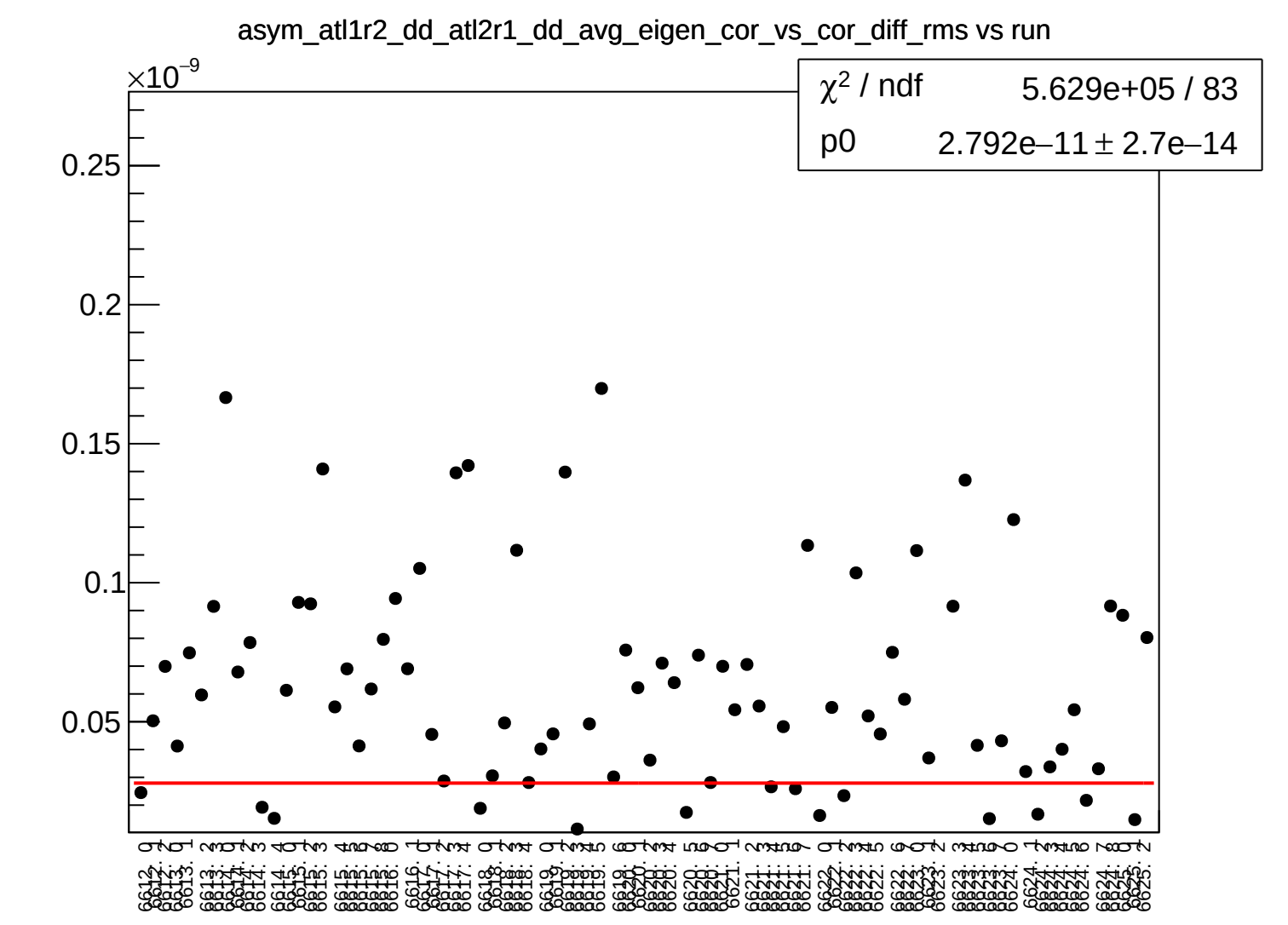

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.24 / 83
p0 −0.3386 ± 2.763
pull
Entries 84
Mean 164
Std Dev 0

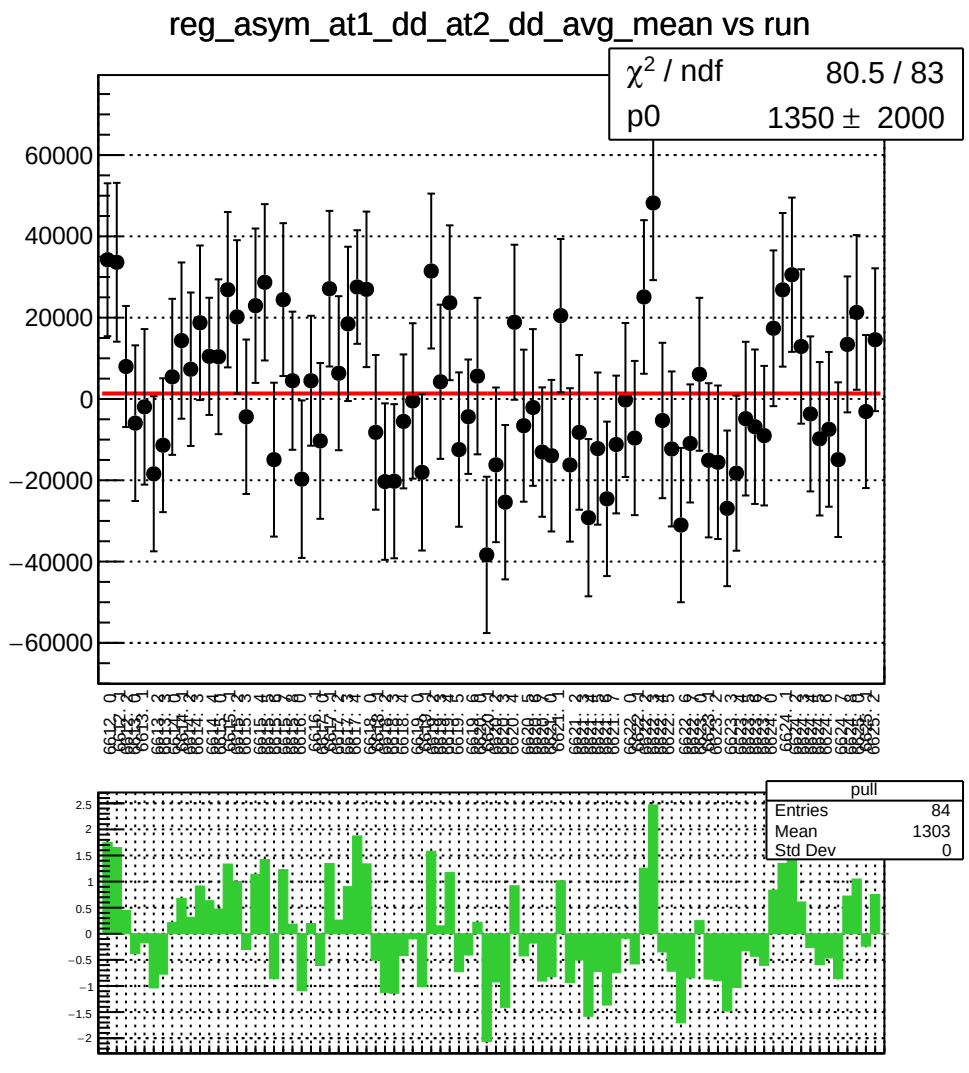

pull1D
Entries 84
Mean −0.008984
Std Dev 0.9337

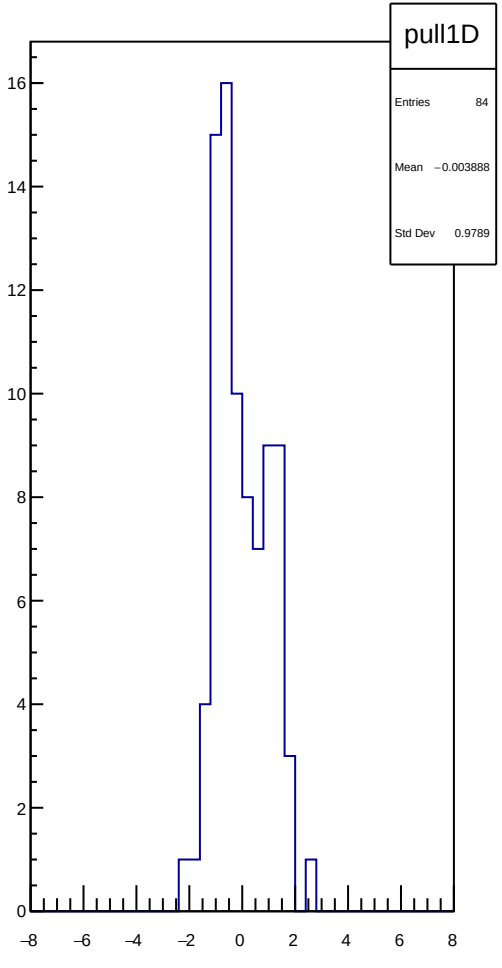

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 180.1 / 83
p0 2496 ± 1.953
2640
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

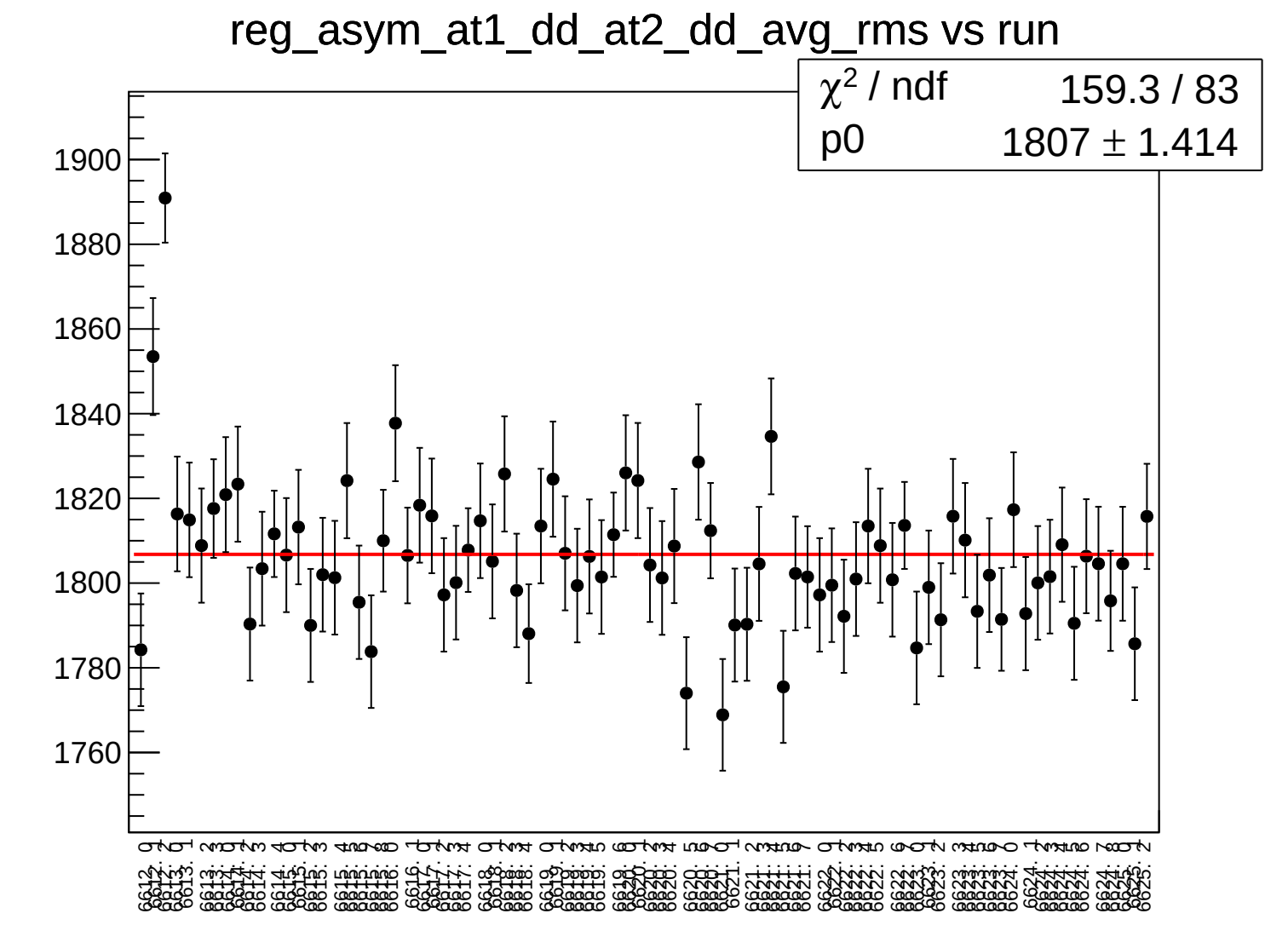

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.94 / 83
p0 −1.034e−17 ± 3.818e−14
pull
Entries 84
Mean 248.6
Std Dev 0

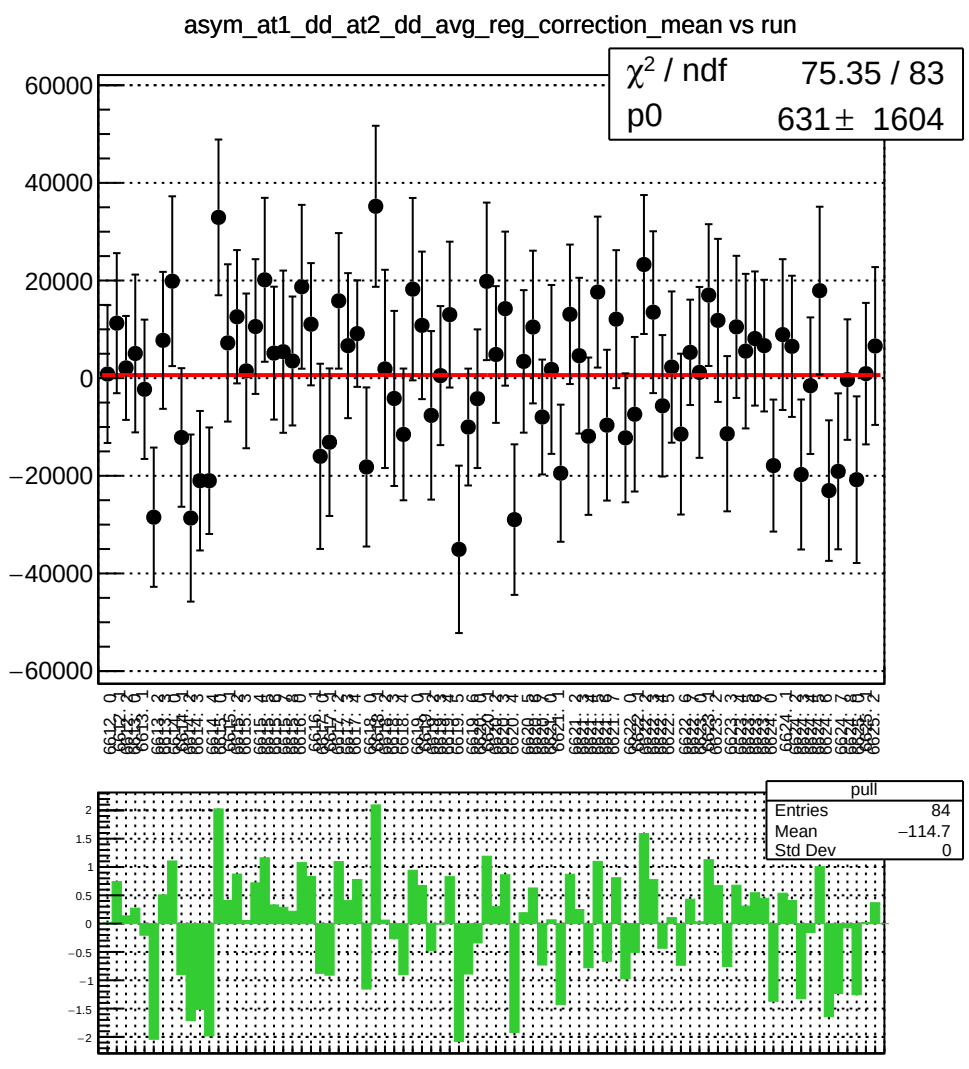

pull1D
Entries 84
Mean 0.003361
Std Dev 0.9318

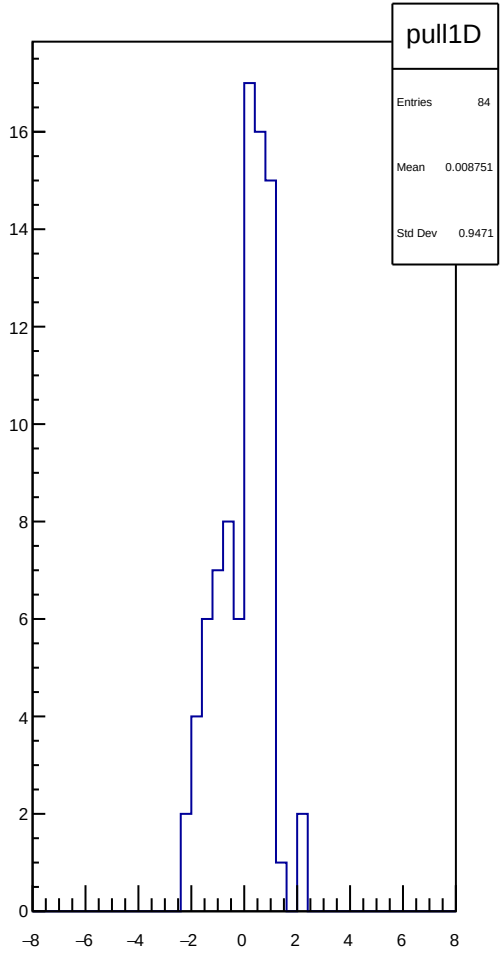

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.629e+05 / 83
p0 2.792e−11 ± 2.7e−14
0.25
0.2
0.15
0.1
0.05

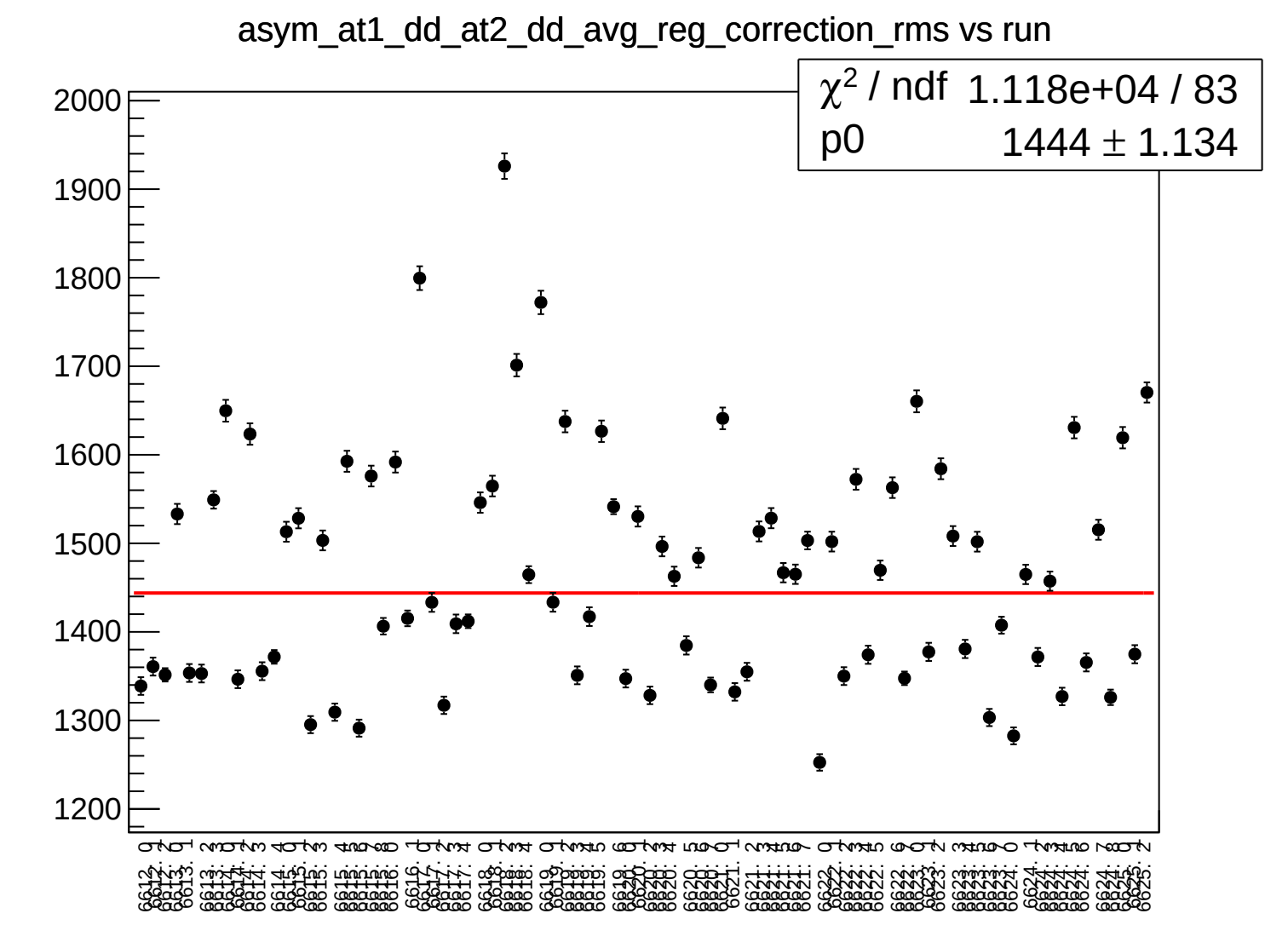

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 80.5 / 83
p0 1350 ± 2000
pull
Entries 84
Mean 1303
Std Dev 0

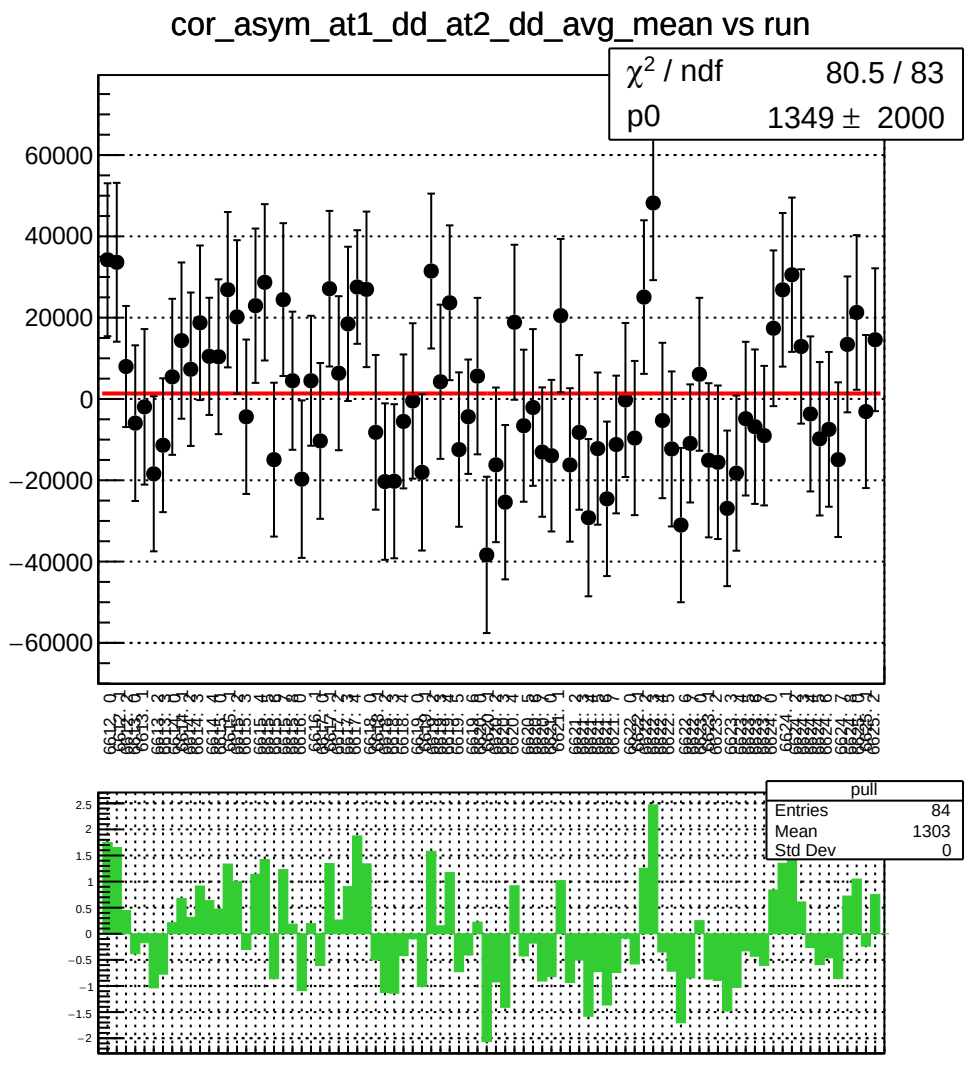

pull1D
Entries 84
Mean −0.003888
Std Dev 0.9789

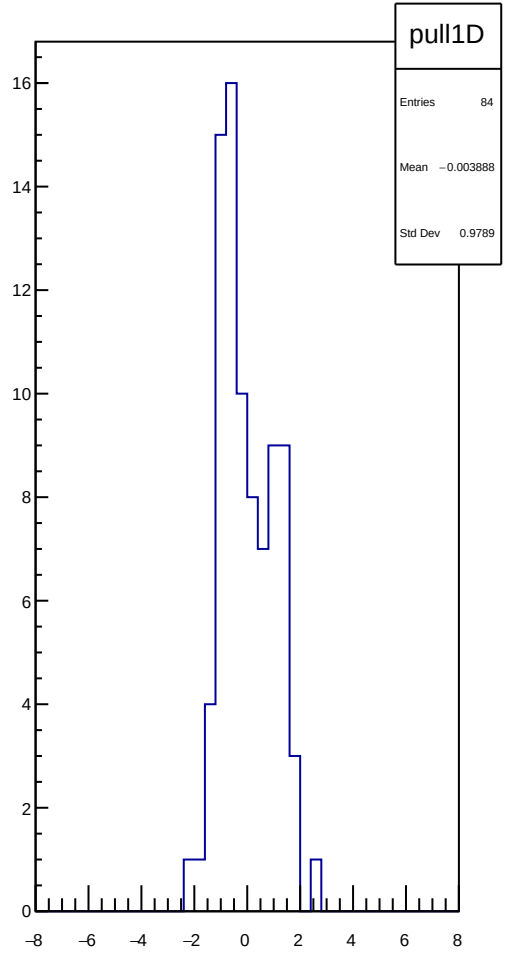

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 159.3 / 83
p0 1807 ± 1.414
1900
1880
1860
1840
1820
1800
1780
1760

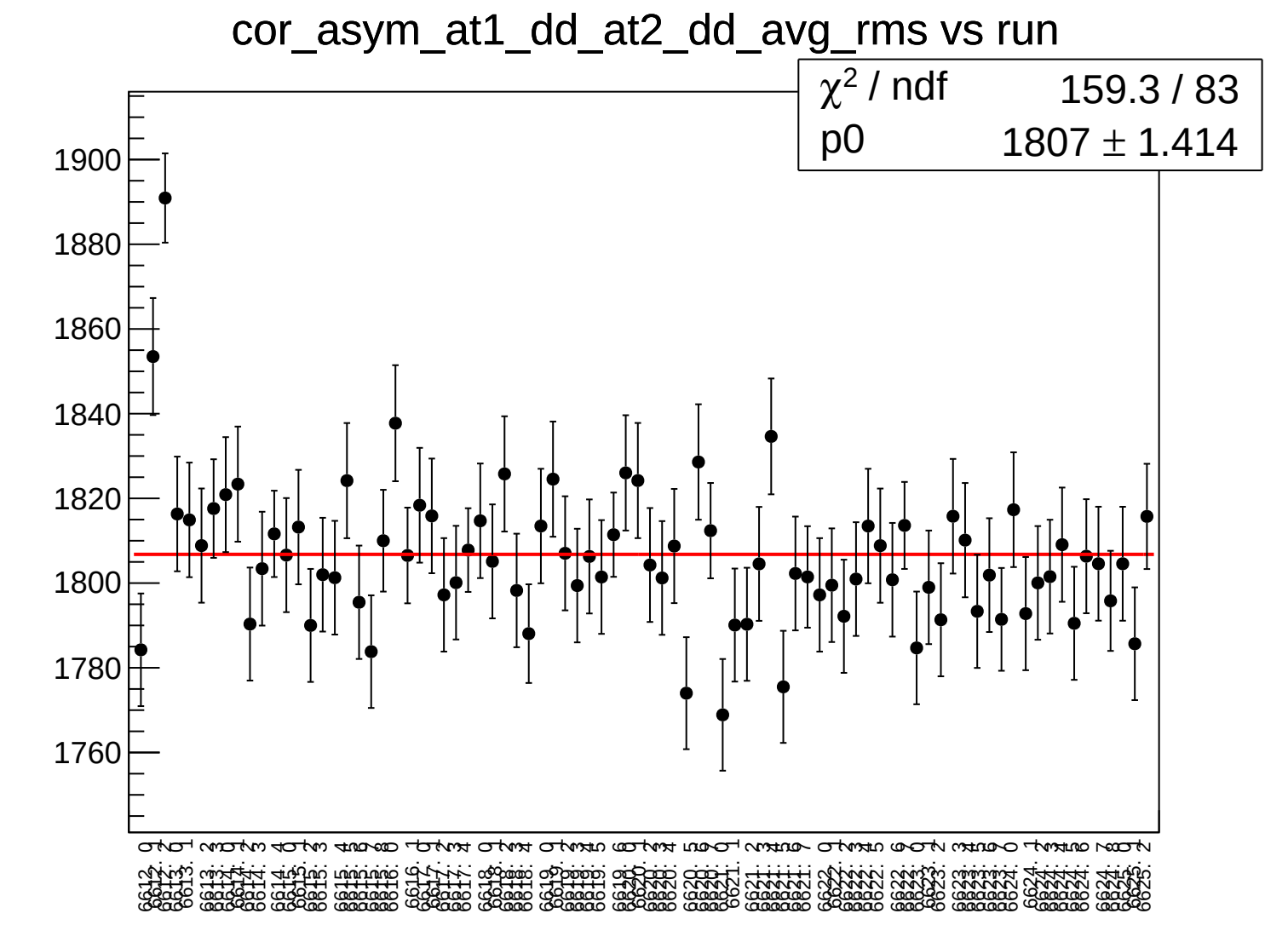

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 75.35 / 83
p0 631 ± 1604
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −114.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

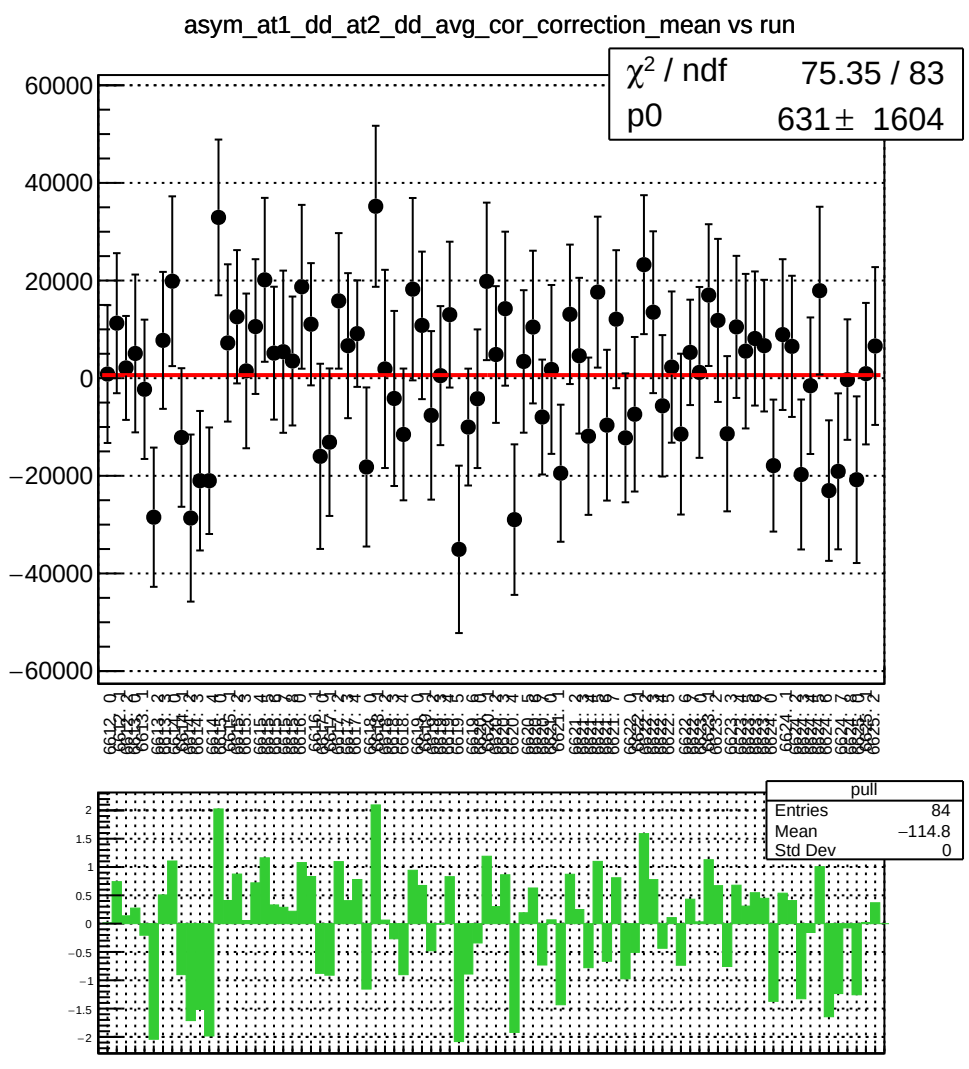

pull1D
Entries 84
Mean 0.008751
Std Dev 0.9471
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

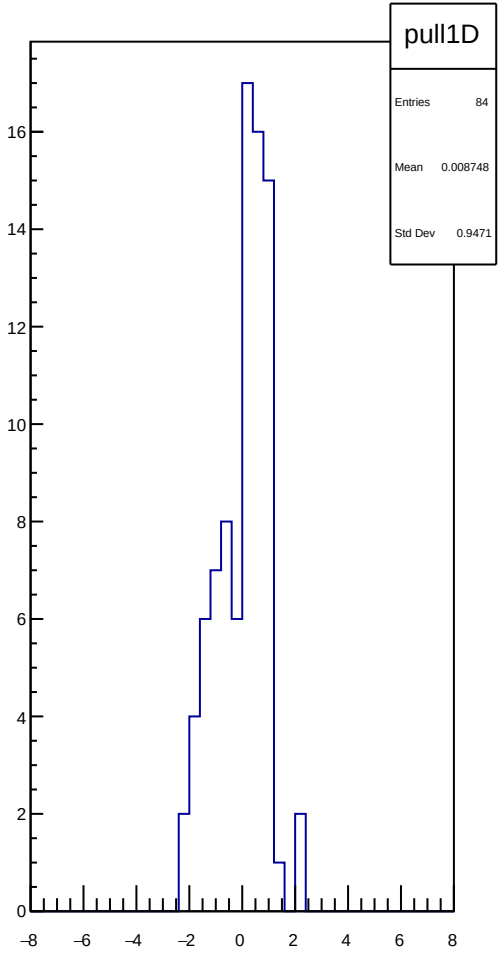

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.118e+04 / 83
p0 1444 ± 1.134
2000
1900
1800
1700
1600
1500
1400
1300
1200

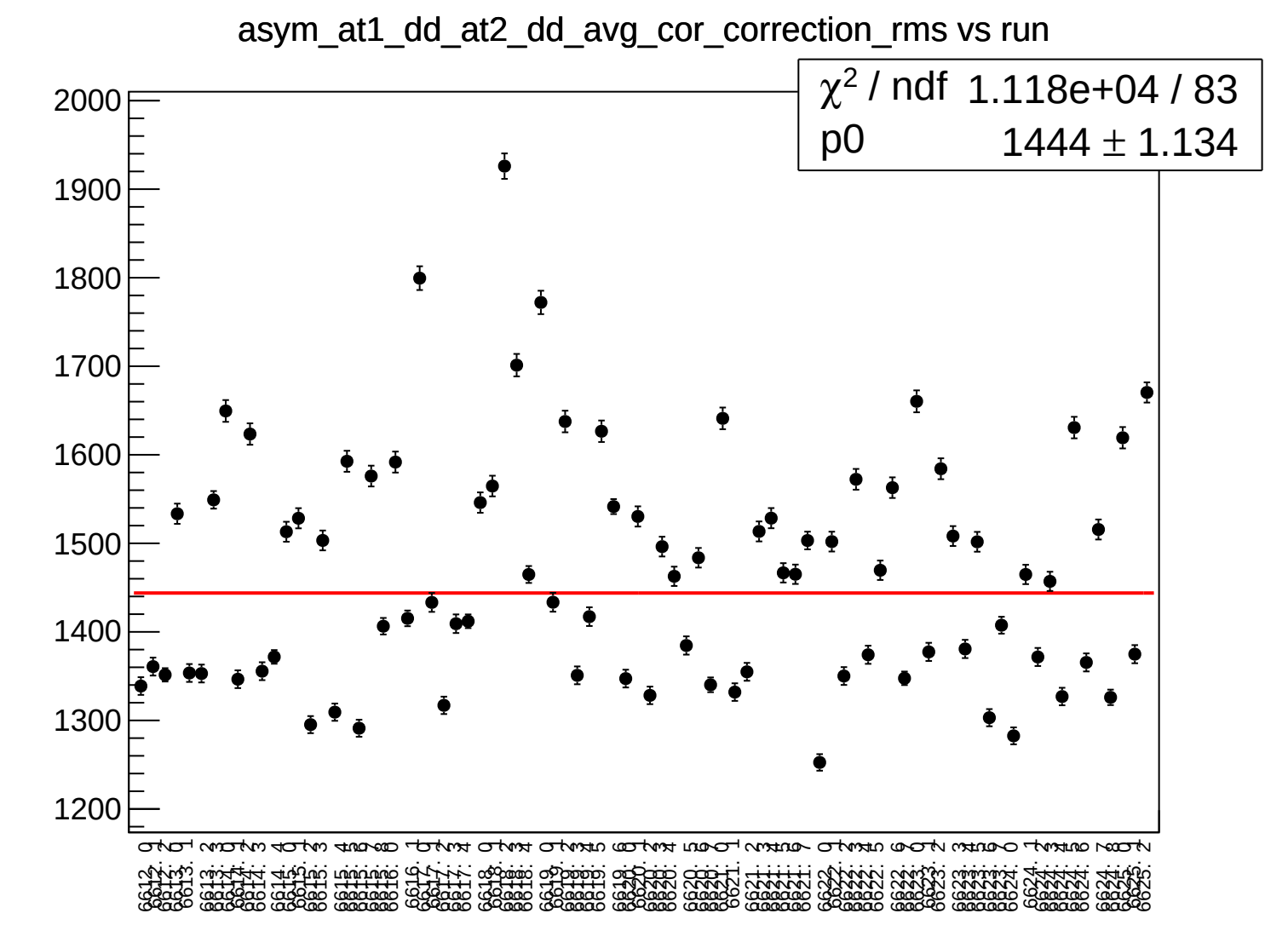

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 80.5 / 83
p0 1349 ± 2000
pull
Entries 84
Mean 1303
Std Dev 0

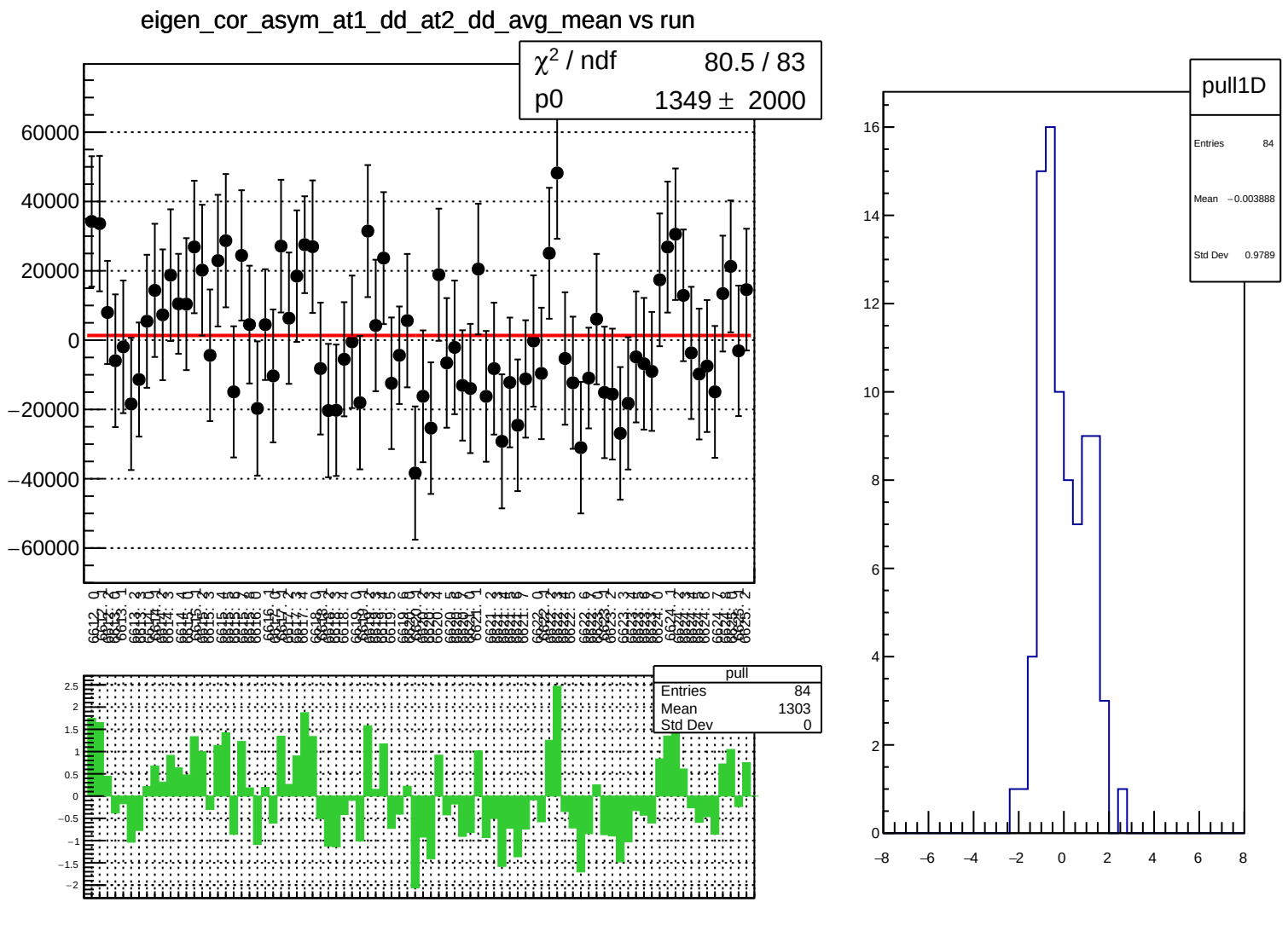

pull1D
Entries 84
Mean −0.003888
Std Dev 0.9789

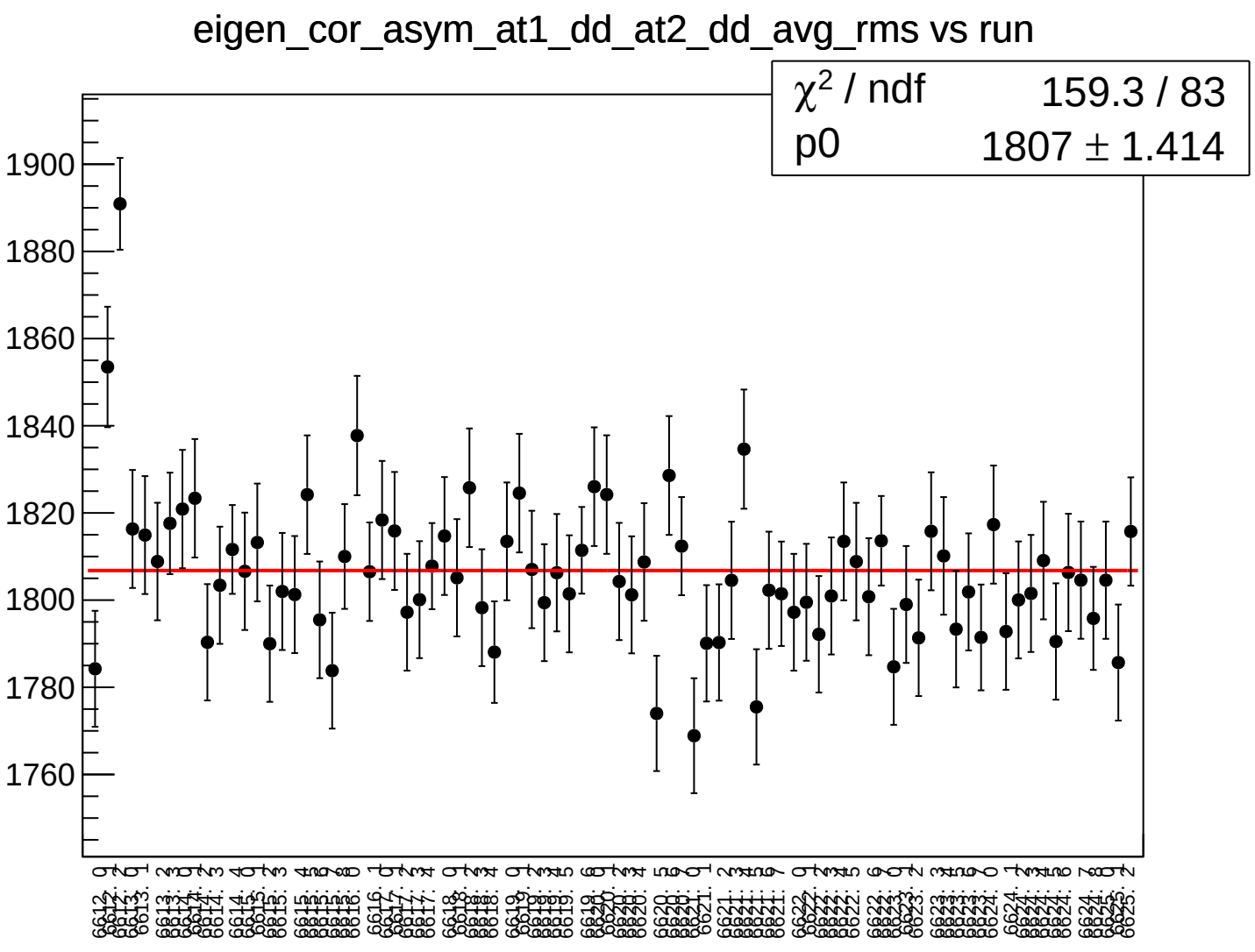

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 159.3 / 83
p0 1807 ± 1.414
1900
1880
1860
1840
1820
1800
1780
1760

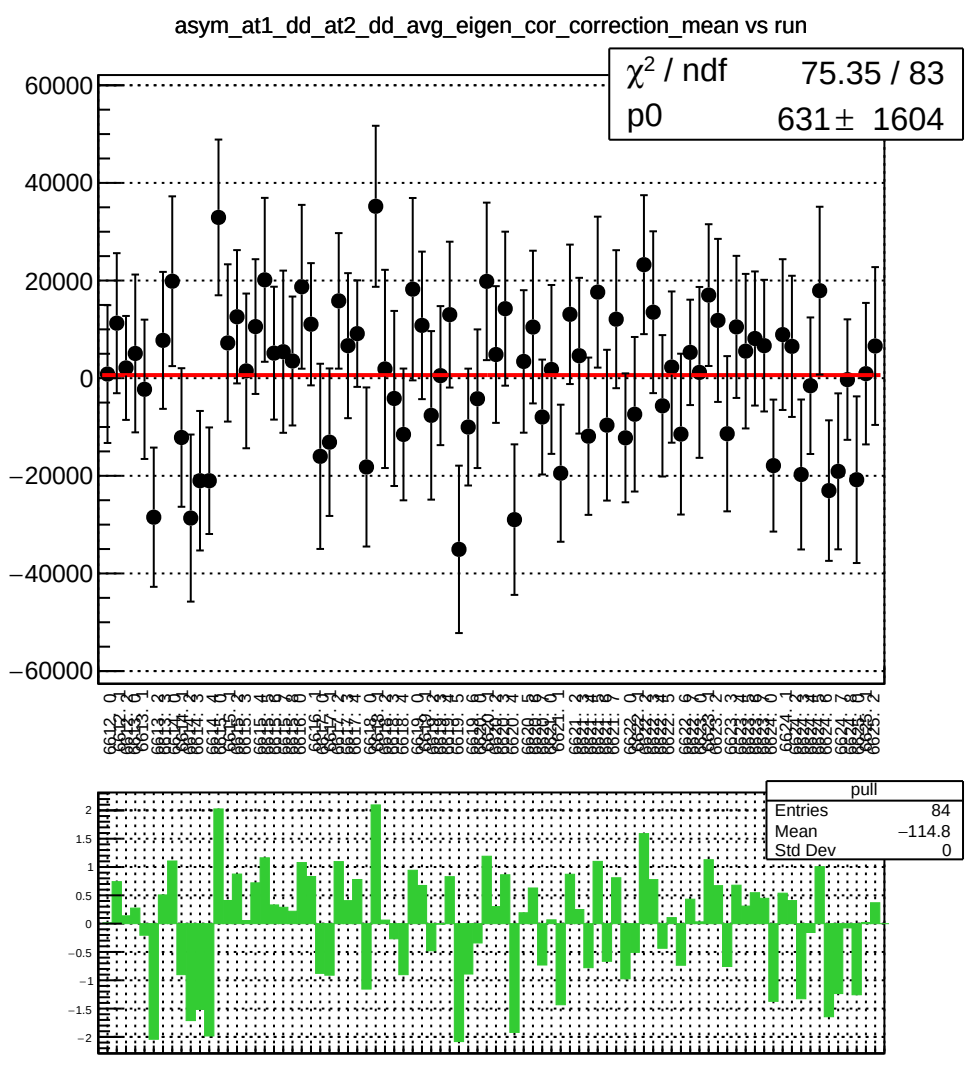

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 75.35 / 83
p0 631 ± 1604
pull
Entries 84
Mean −114.8
Std Dev 0

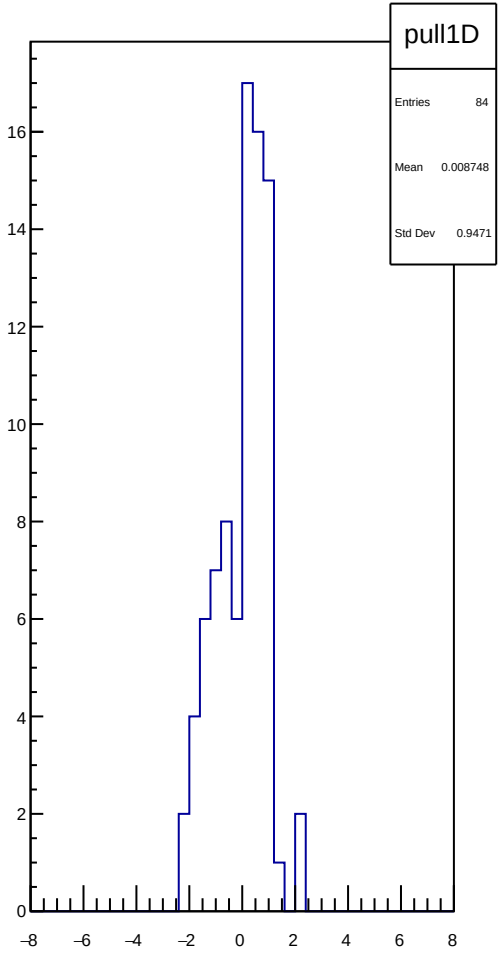

pull1D
Entries 84
Mean 0.008748
Std Dev 0.9471

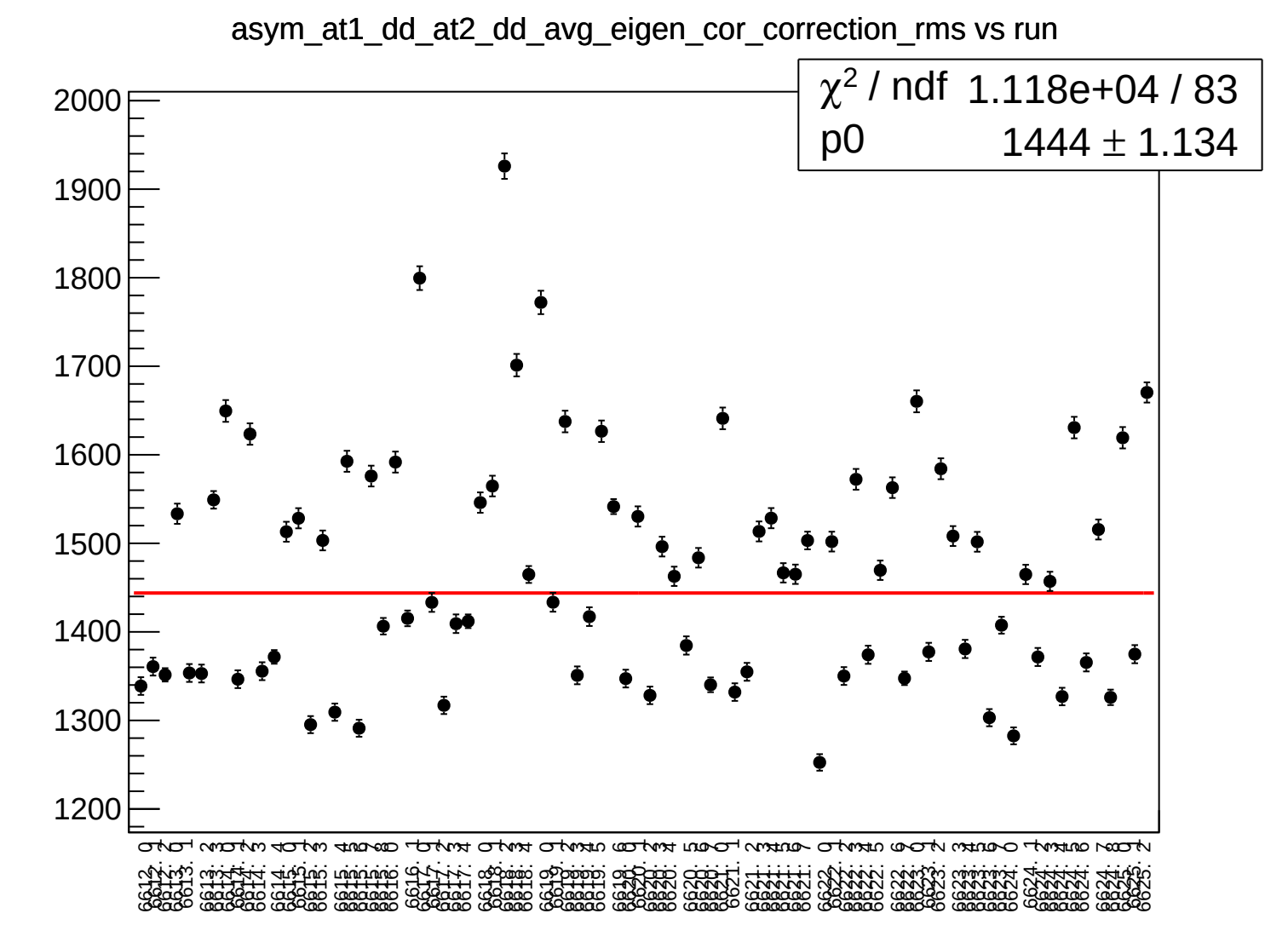

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.118e+04 / 83
p0 1444 ± 1.134
2000
1900
1800
1700
1600
1500
1400
1300
1200

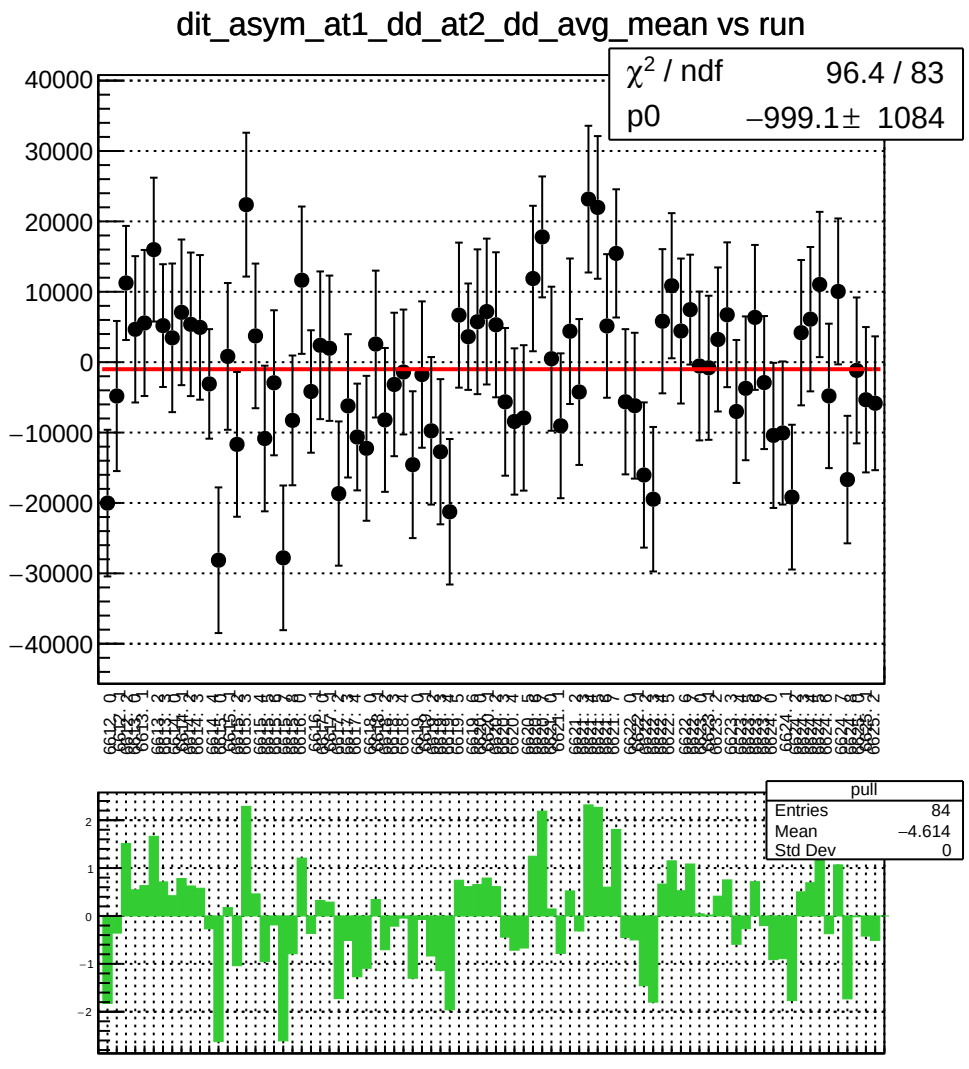

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 80.5 / 83
p0 1349 ± 2000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 1303
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.003888
Std Dev 0.9789
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

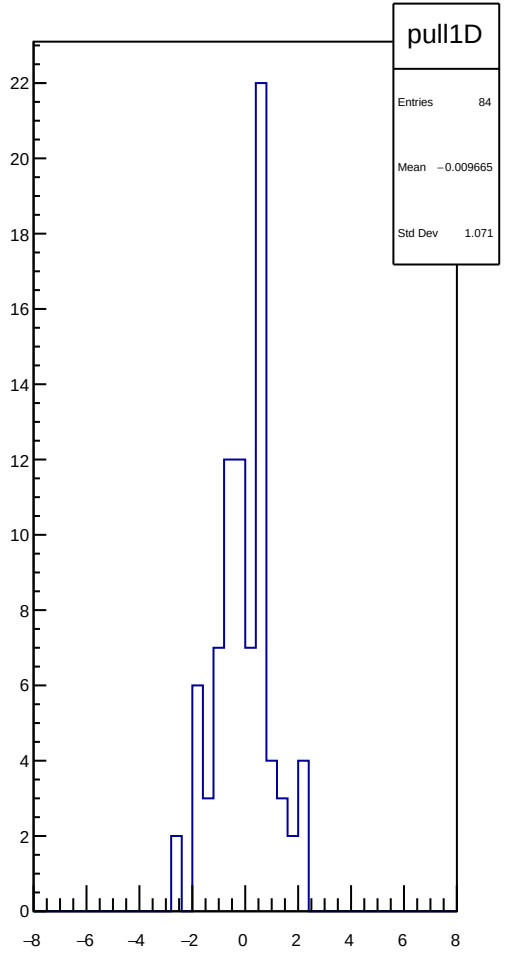

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 159.3 / 83
p0 1807 ± 1.414
1900
1880
1860
1840
1820
1800
1780
1760

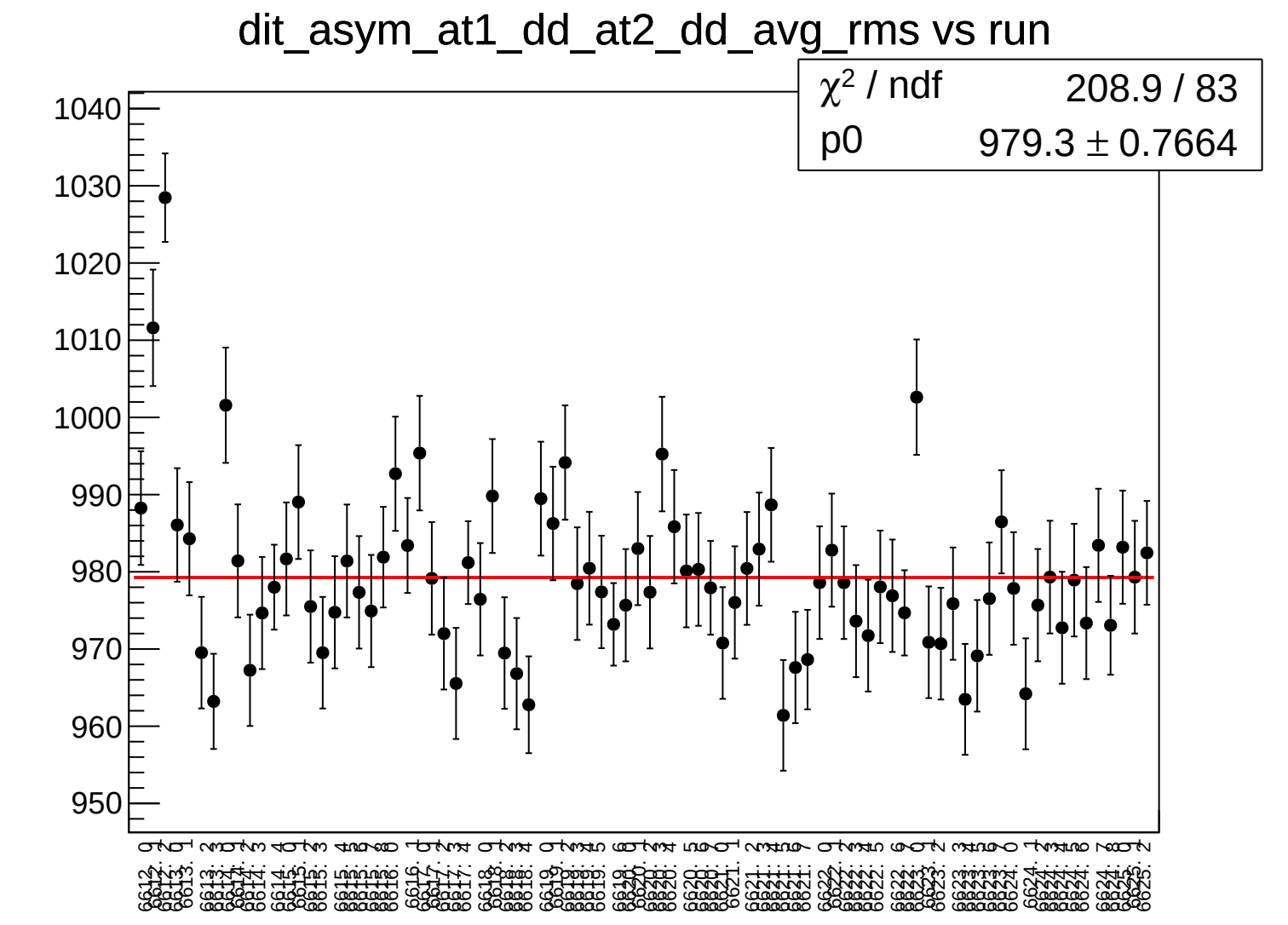

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 75.35 / 83
p0 631 ± 1604
pull
Entries 84
Mean −114.8
Std Dev 0

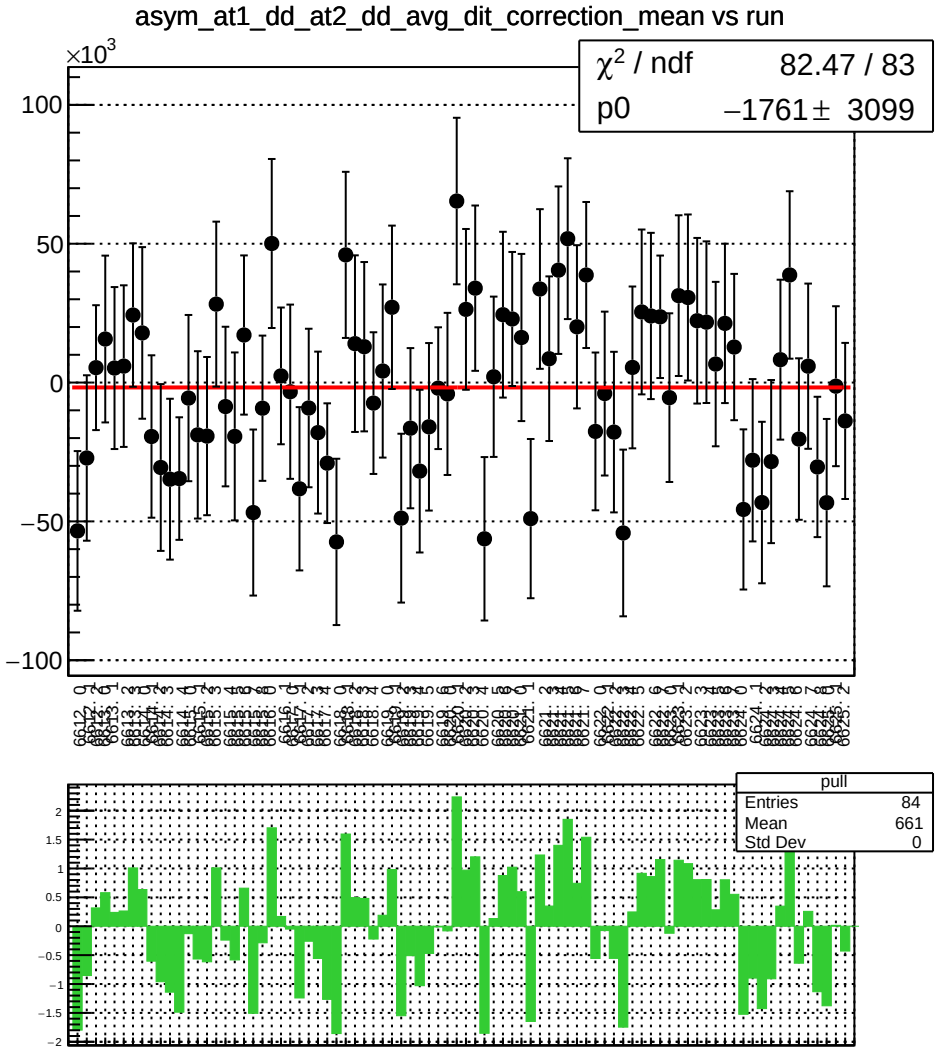

pull1D
Entries 84
Mean 0.008748
Std Dev 0.9471

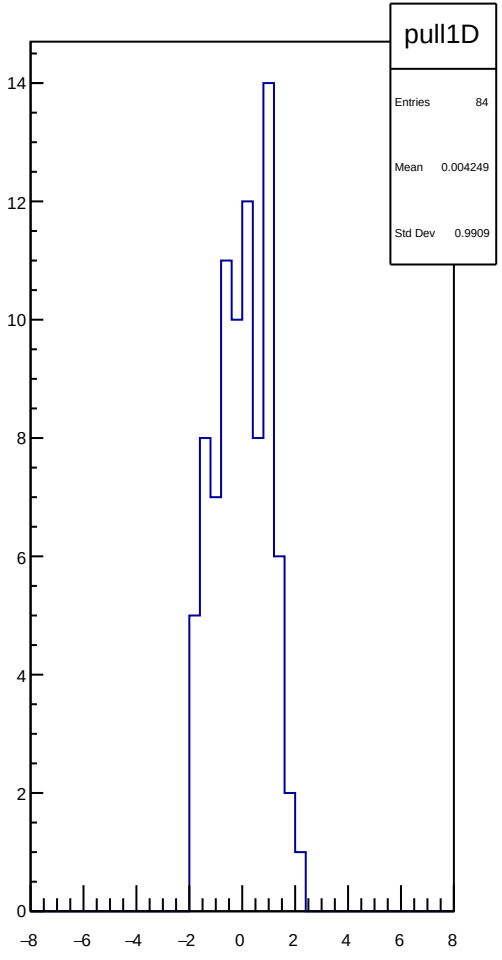

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.118e+04 / 83
p0 1444 ± 1.134
2000
1900
1800
1700
1600
1500
1400
1300
1200

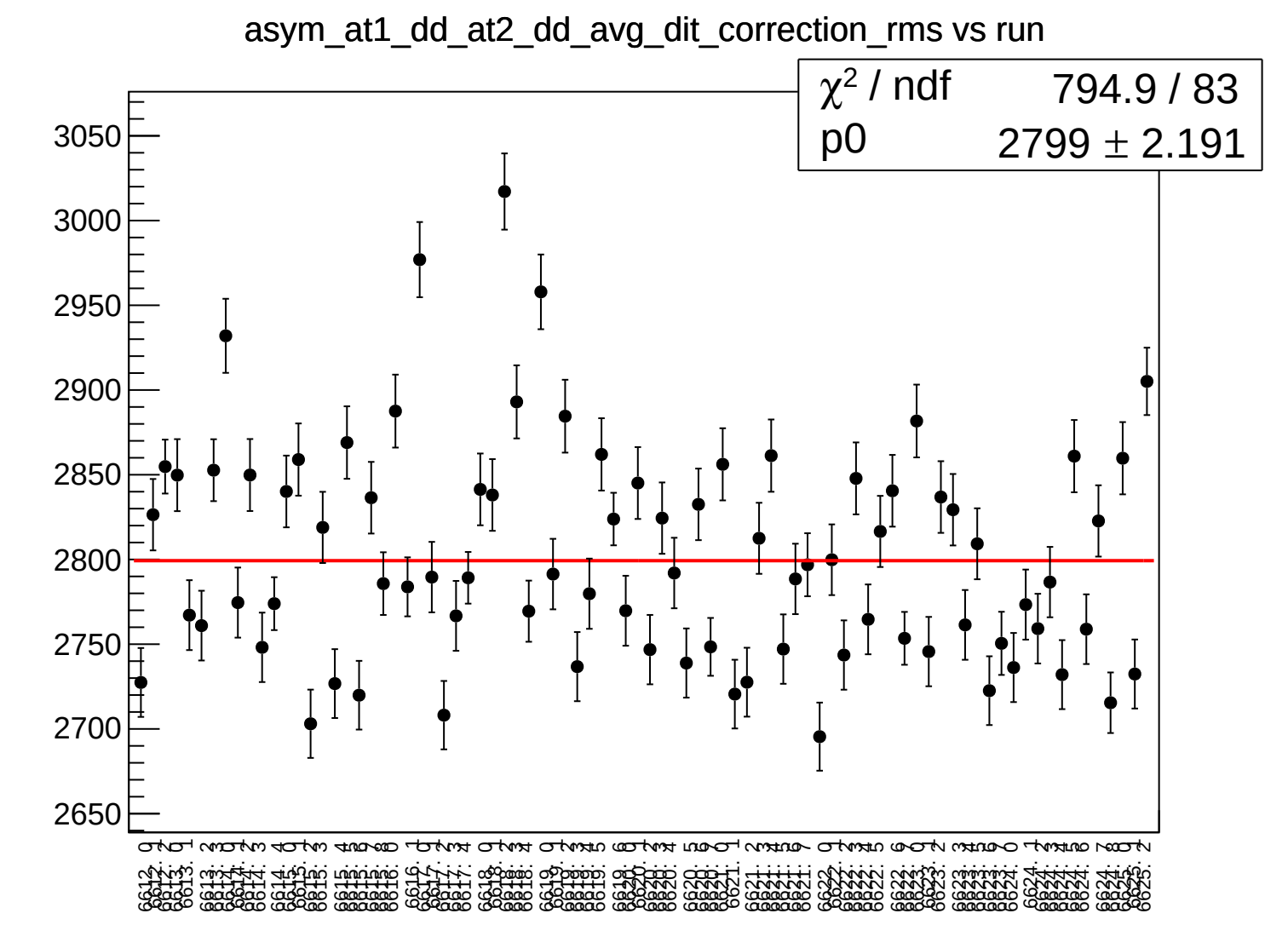

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 96.4 / 83
p0 −999.1± 1084
pull
Entries 84
Mean −4.614
Std Dev 0

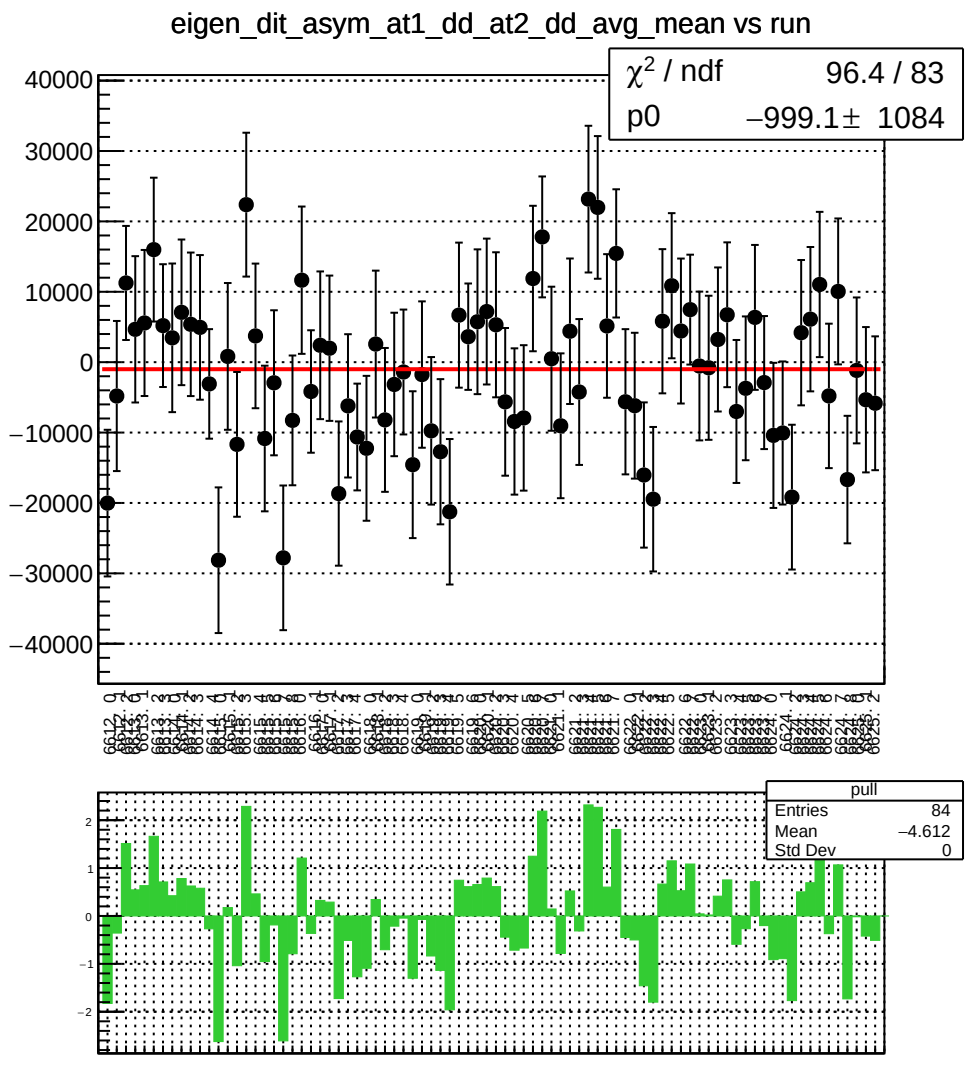

pull1D
Entries 84
Mean −0.009665
Std Dev 1.071

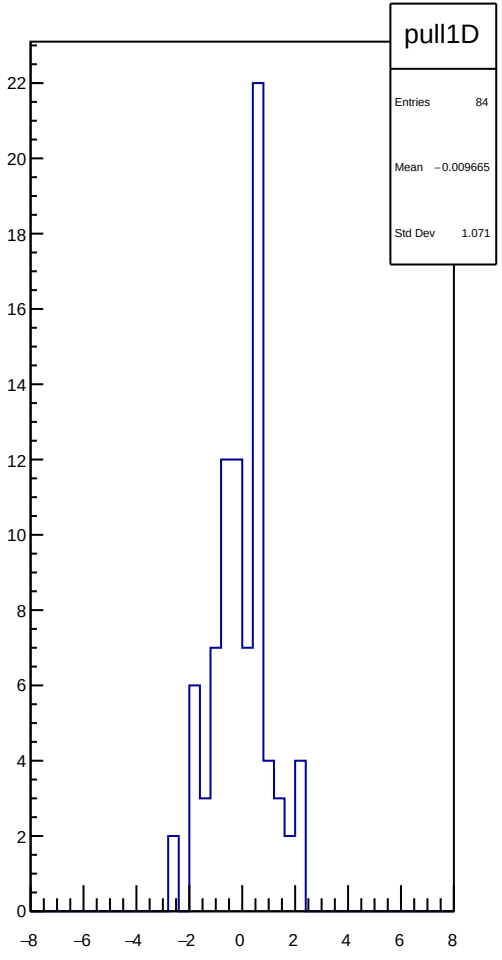

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 208.9 / 83
p0 979.3 ± 0.7664
1040
1030
1020
1010
1000
990
980
970
960
950

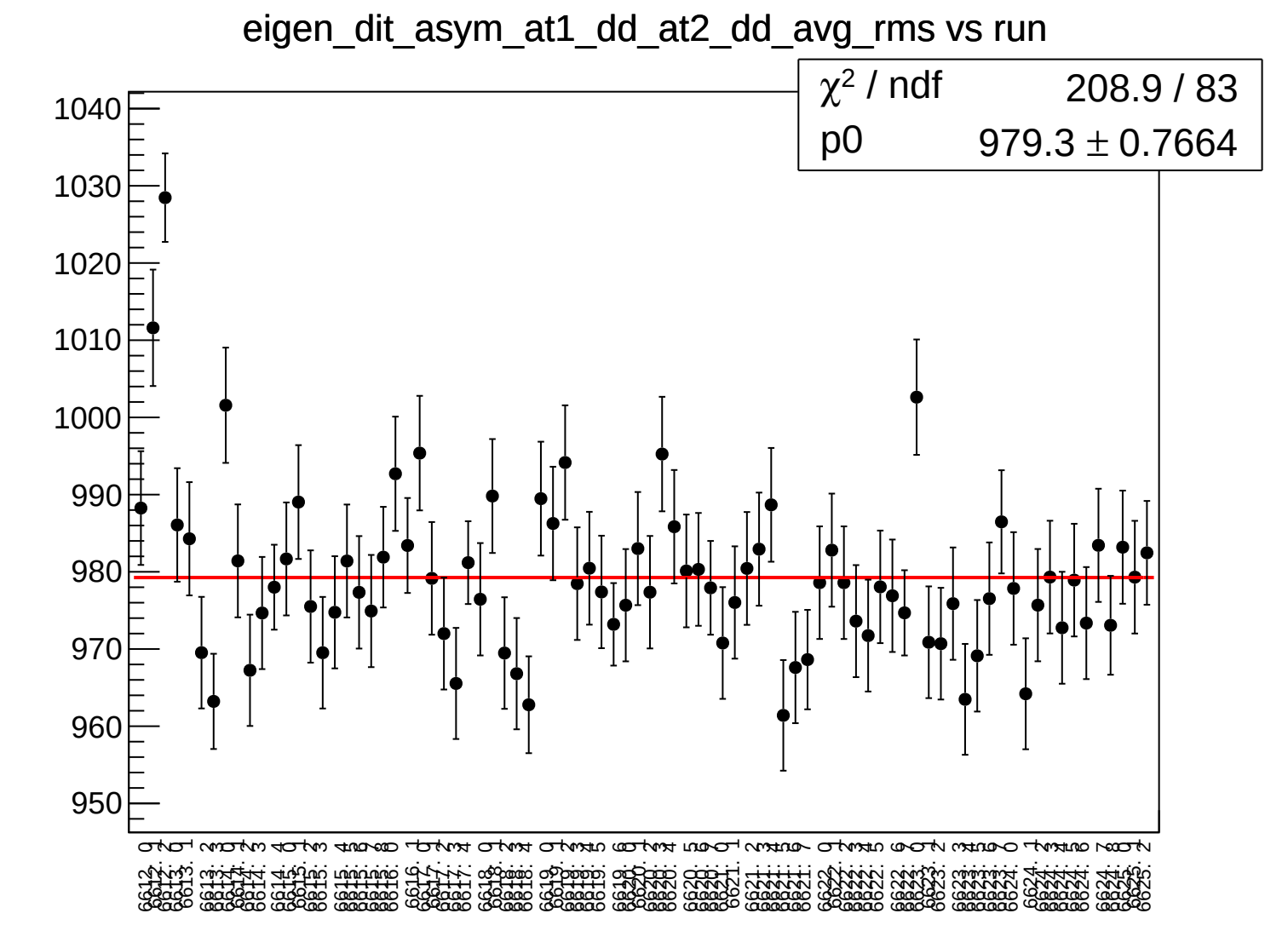

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 82.47 / 83
p0 −1761 ± 3099
pull
Entries 84
Mean 661
Std Dev 0

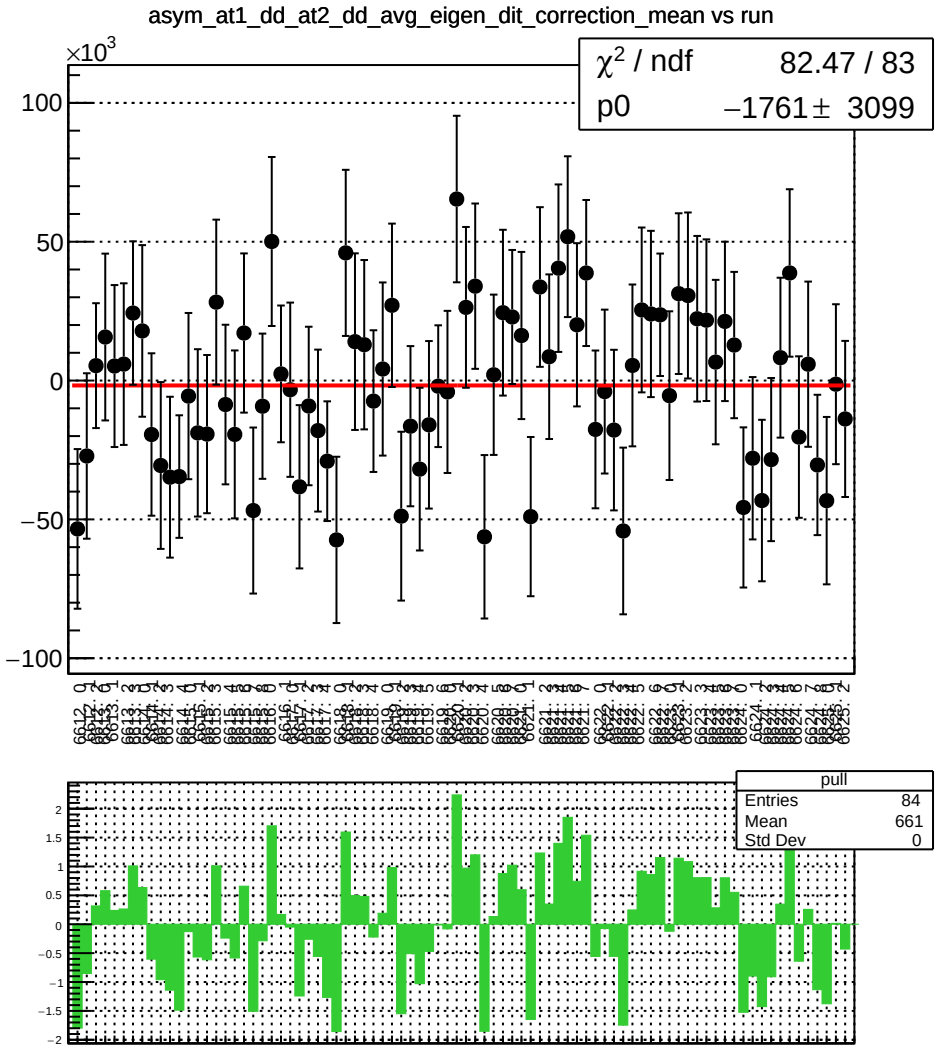

pull1D
Entries 84
Mean 0.004249
Std Dev 0.9909

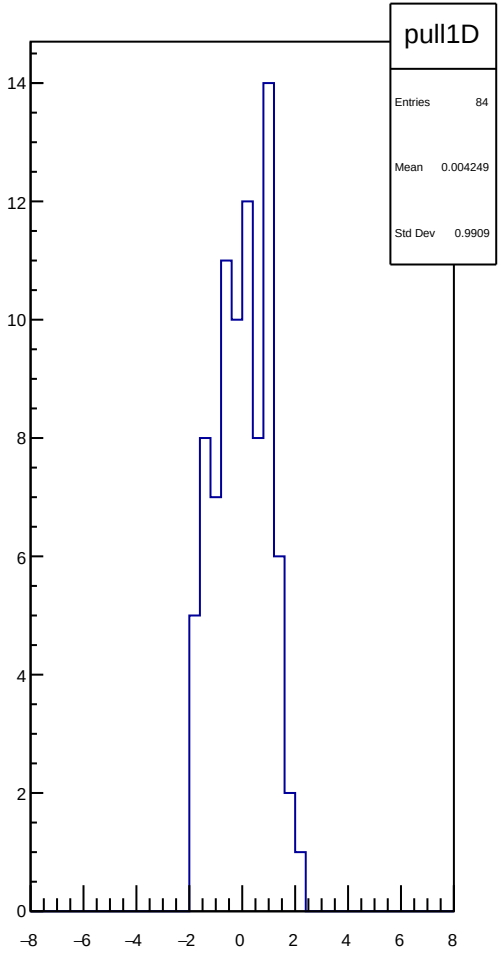

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 794.9 / 83
p0 2799 ± 2.191
3050
3000
2950
2900
2850
2800
2750
2700
2650

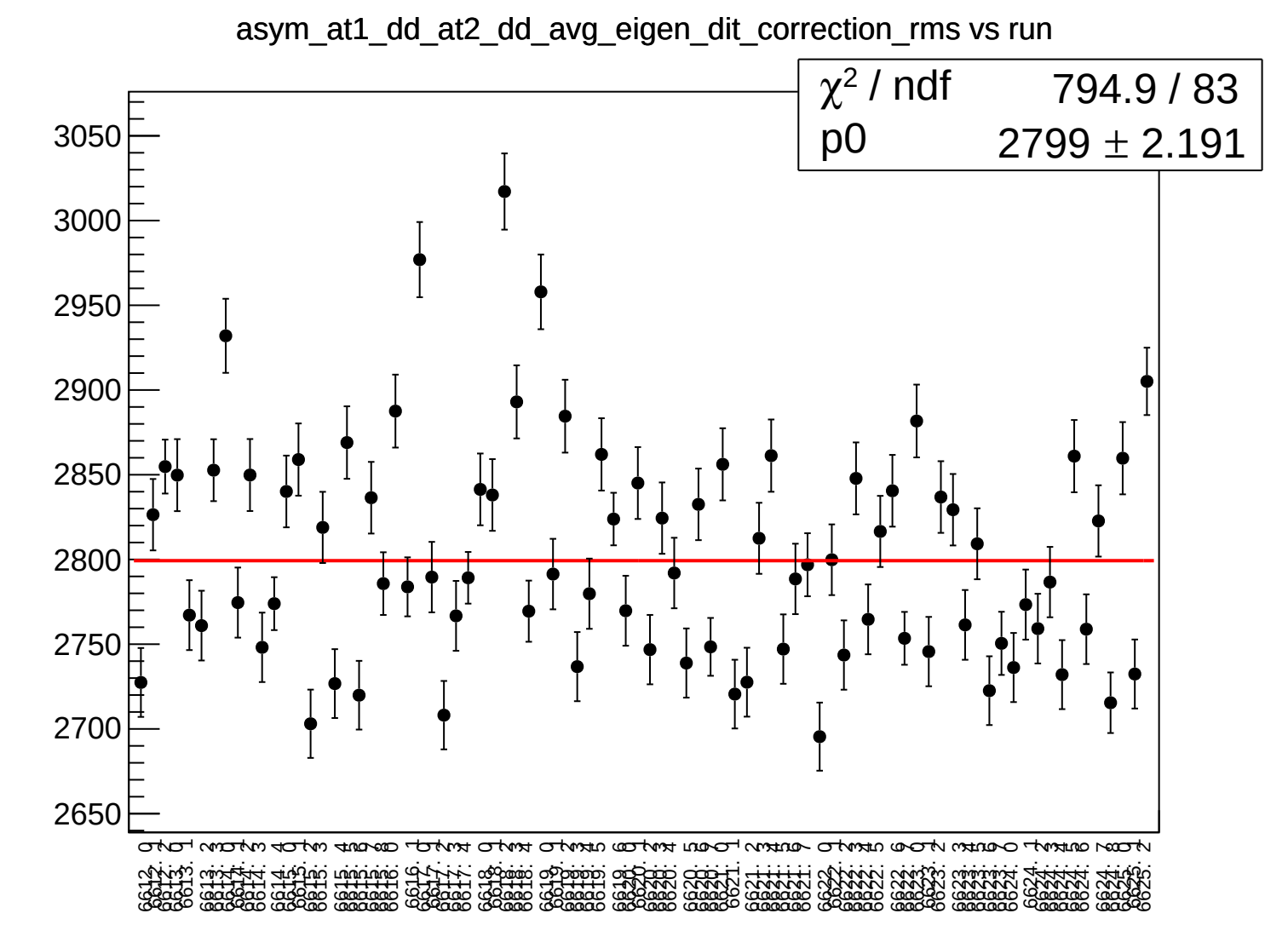

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 96.4 / 83
p0 −999.1± 1084
pull
Entries 84
Mean −4.612
Std Dev 0

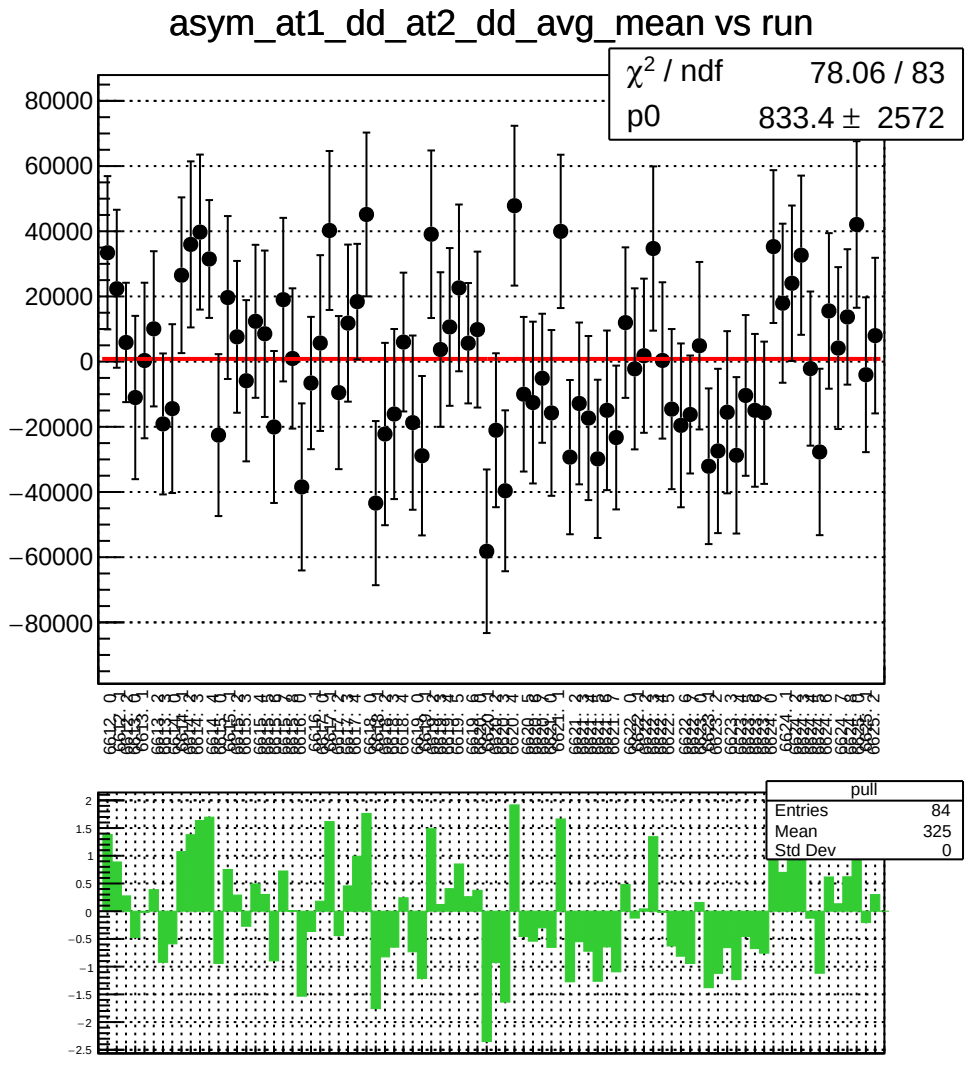

pull1D
Entries 84
Mean −0.009665
Std Dev 1.071

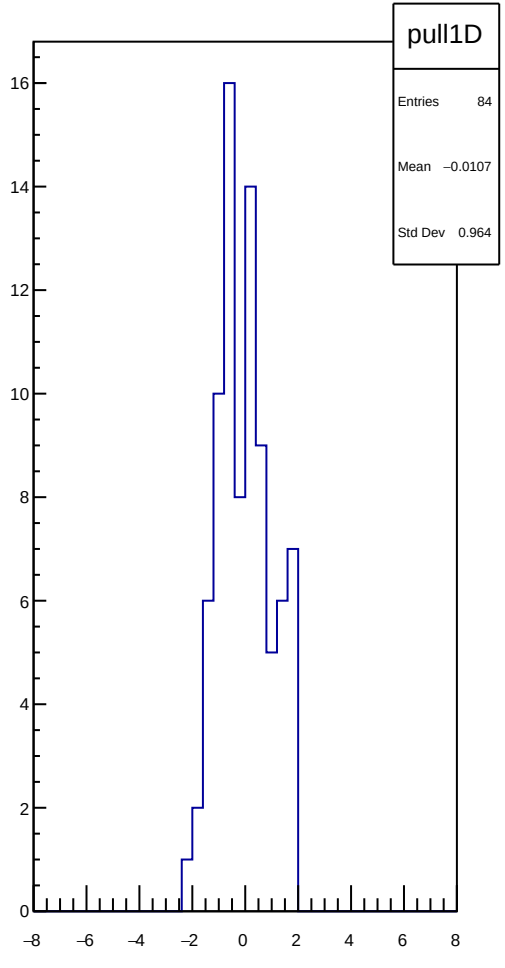

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 208.9 / 83
p0 979.3 ± 0.7664
1040
1030
1020
1010
1000
990
980
970
960
950

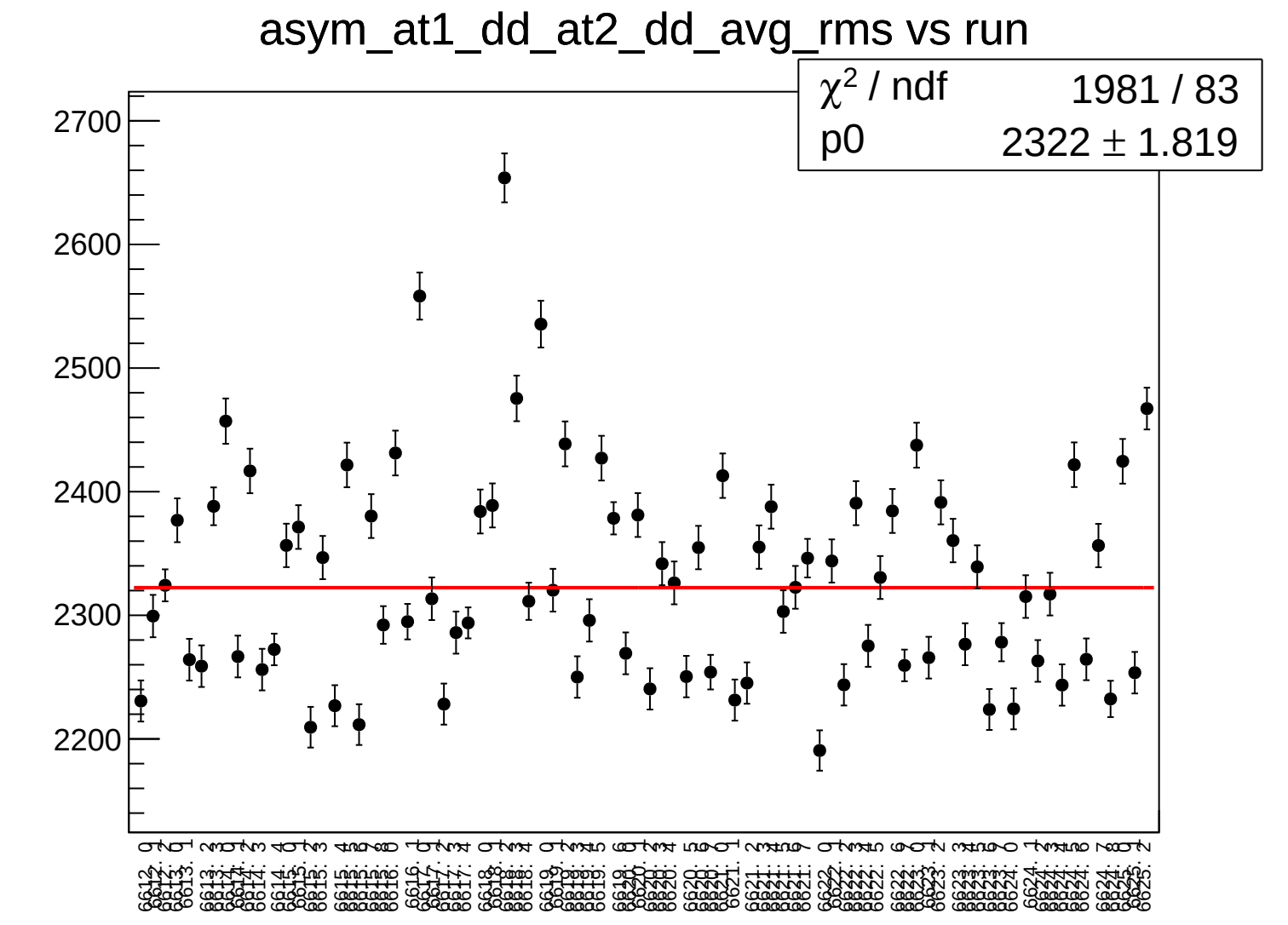

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.47 / 83
p0 −1761 ± 3099
pull
Entries 84
Mean 661
Std Dev 0

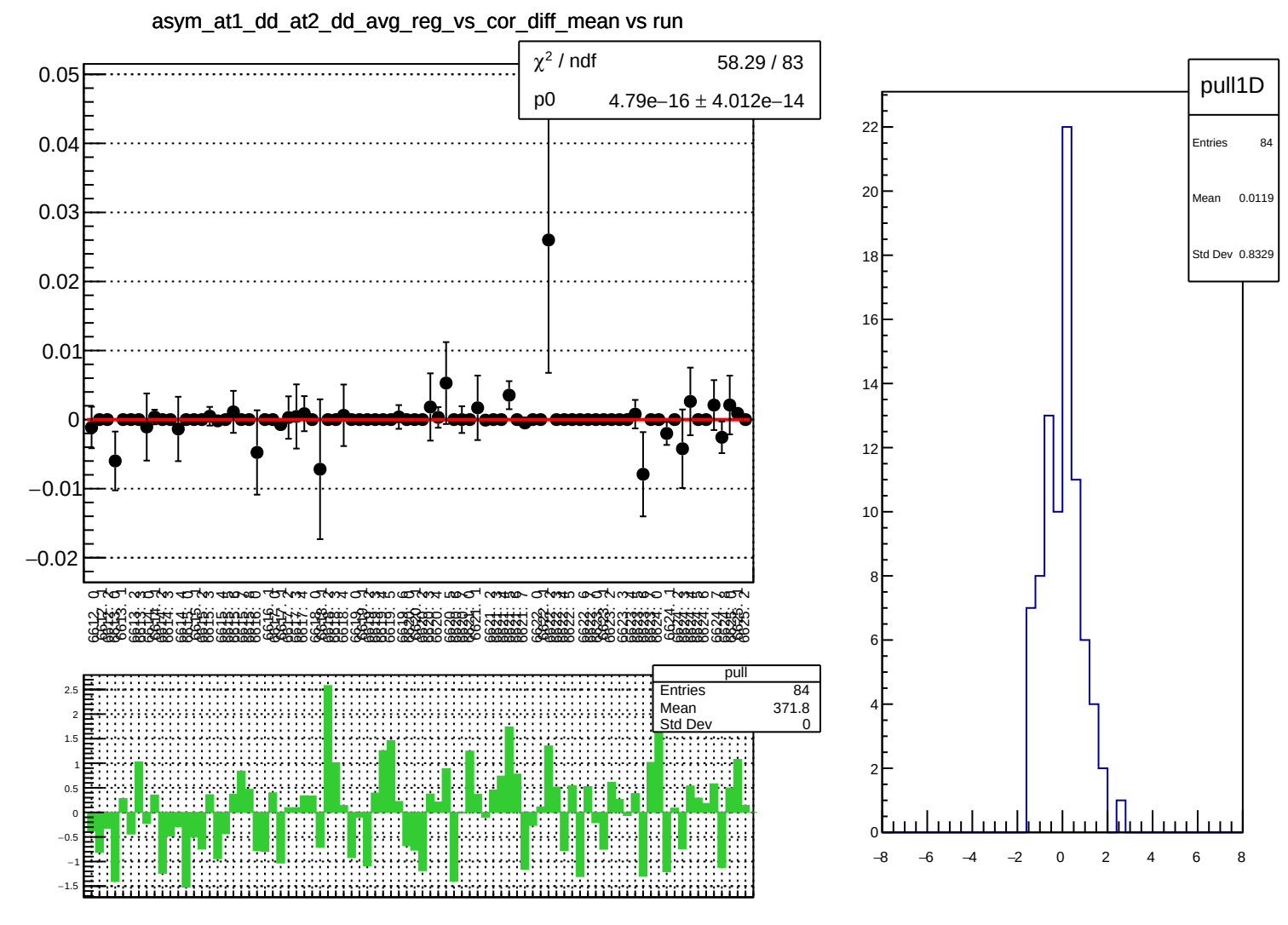

pull1D
Entries 84
Mean 0.004249
Std Dev 0.9909

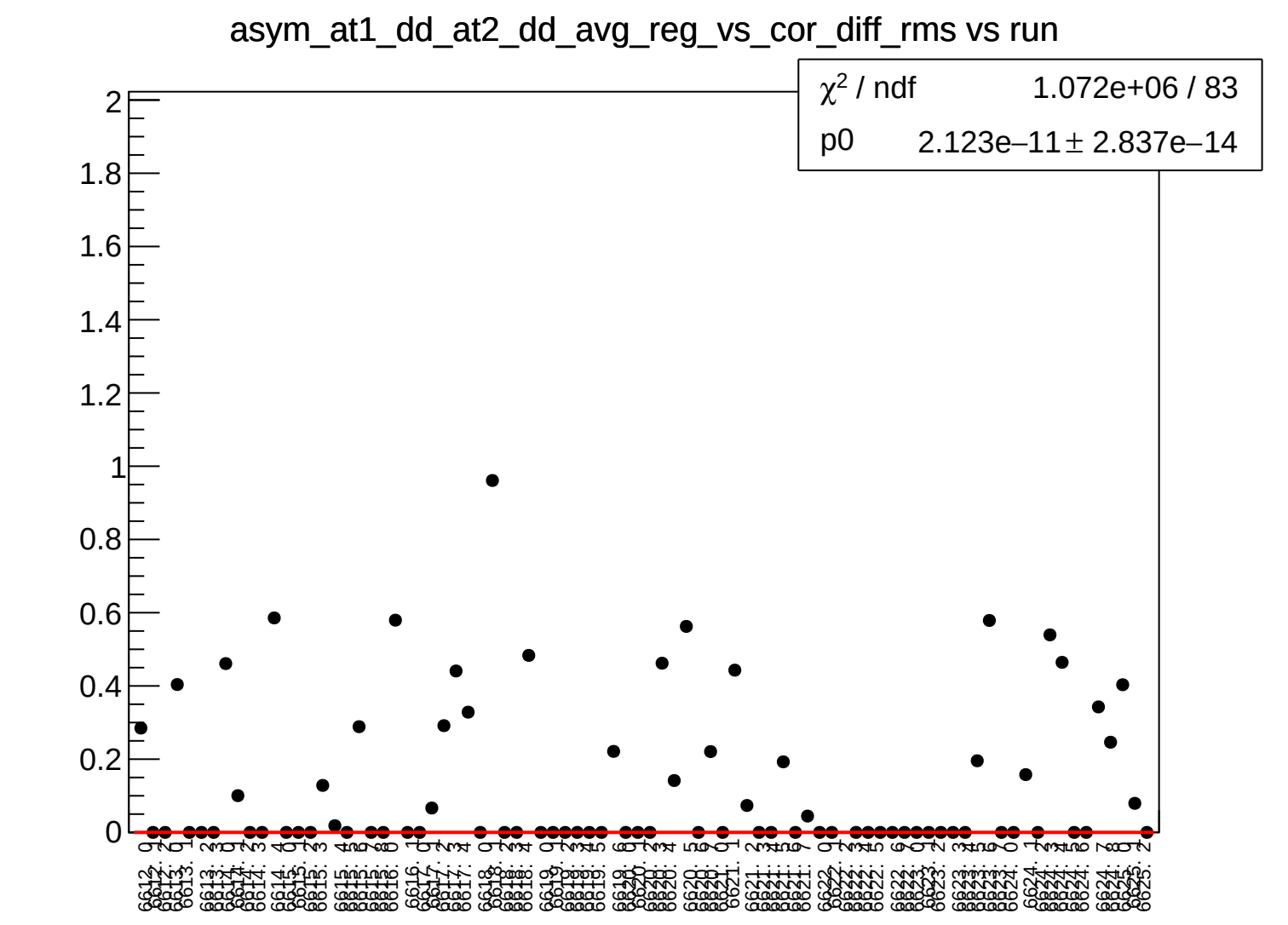

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 794.9 / 83
p0 2799 ± 2.191
3050
3000
2950
2900
2850
2800
2750
2700
2650

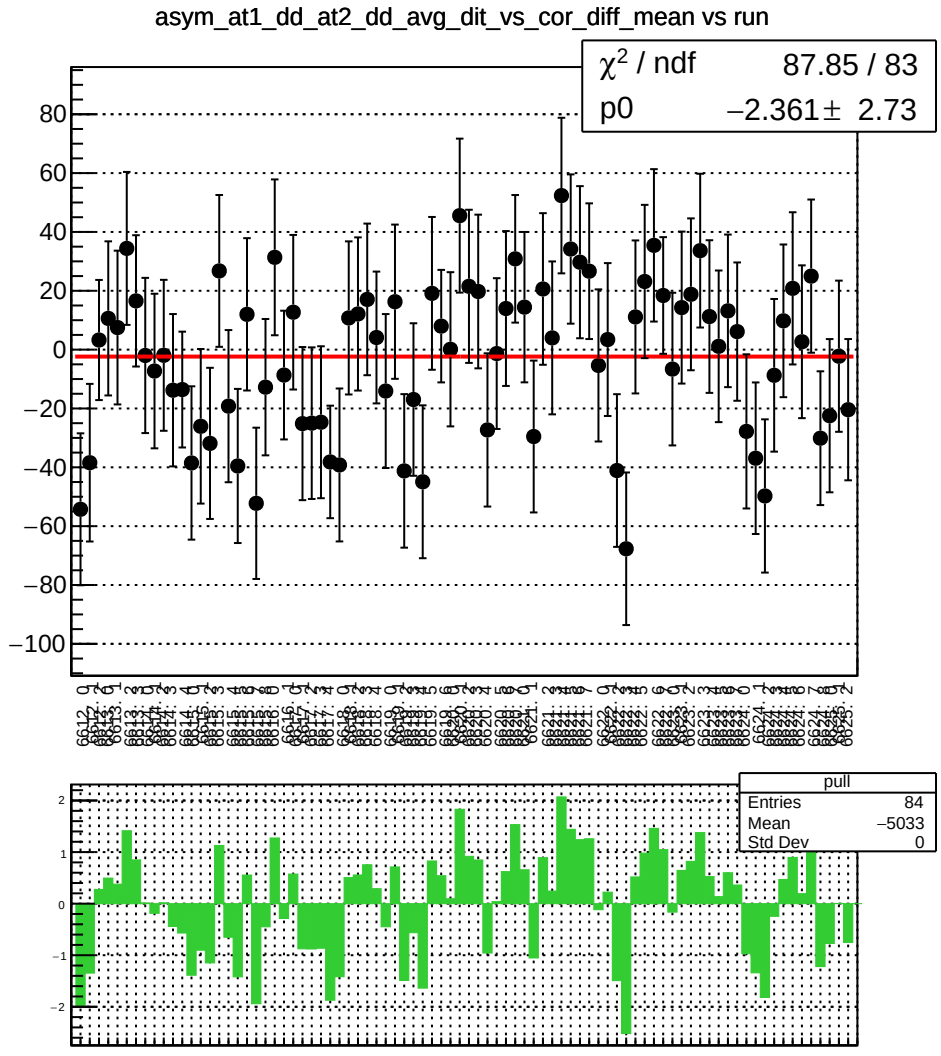

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 78.06 / 83
p0 833.4 ± 2572
pull
Entries 84
Mean 325
Std Dev 0

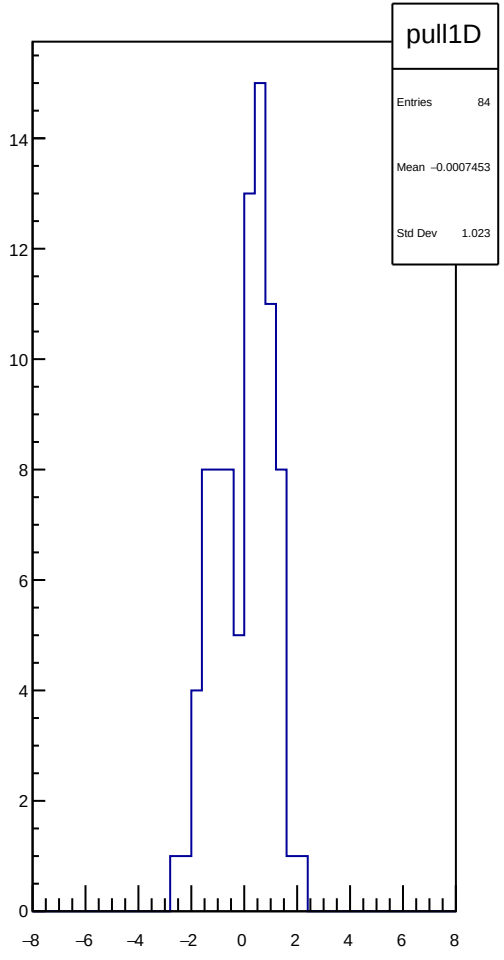

pull1D
Entries 84
Mean −0.0107
Std Dev 0.964

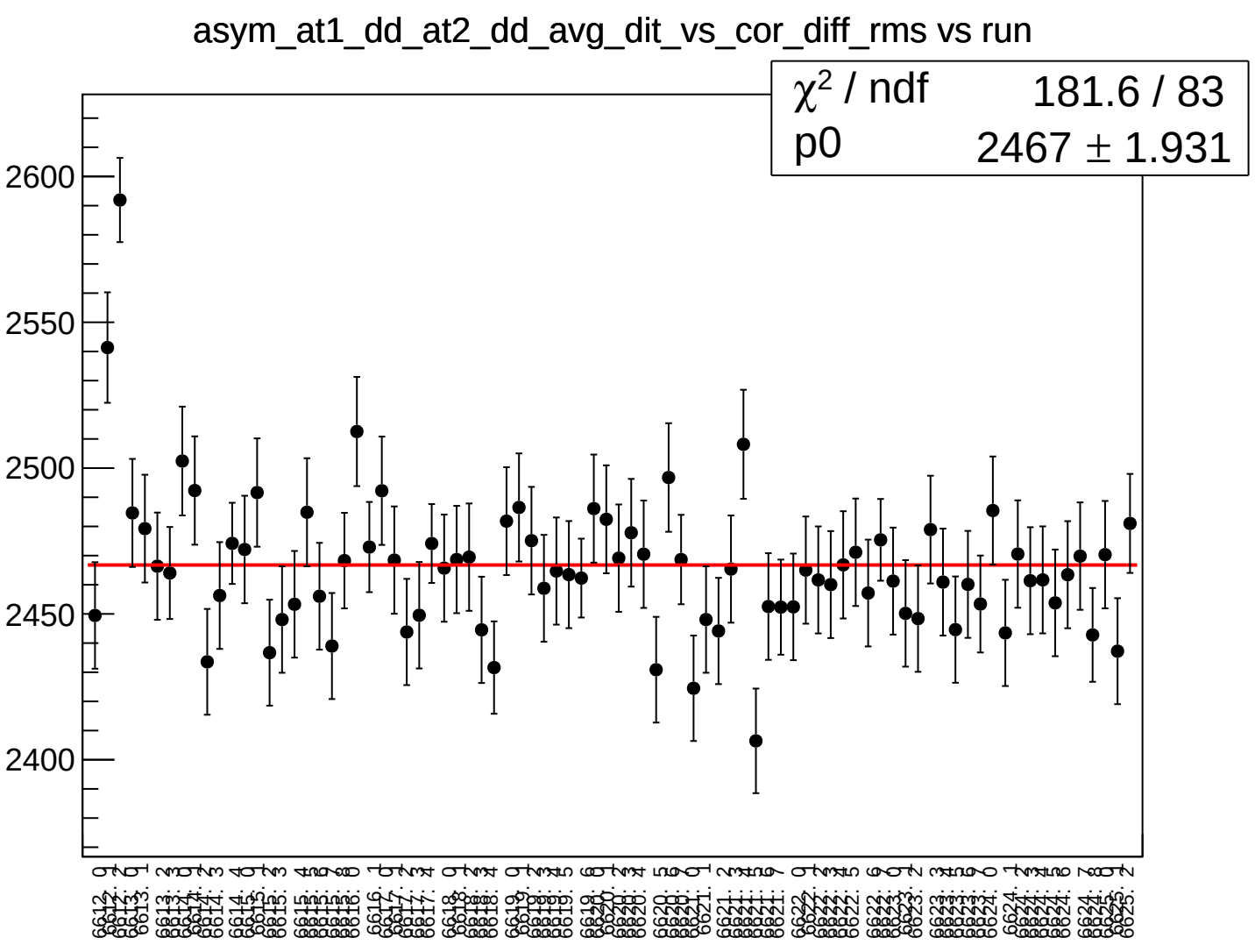

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1981 / 83
p0 2322 ± 1.819
2700
2600
2500
2400
2300
2200

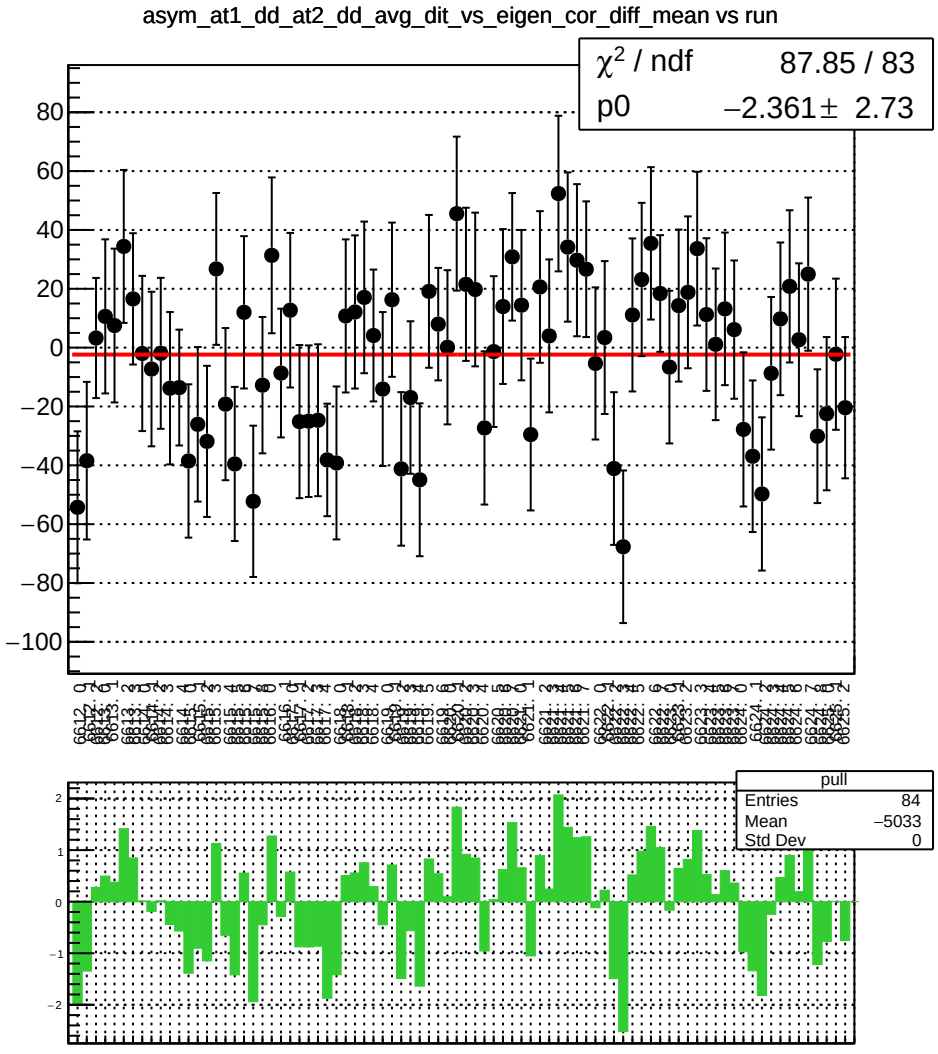

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 58.29 / 83
p0 4.79e−16 ± 4.012e−14
pull
Entries 84
Mean 371.8
Std Dev 0
pull1D
Entries 84
Mean 0.0119
Std Dev 0.8329

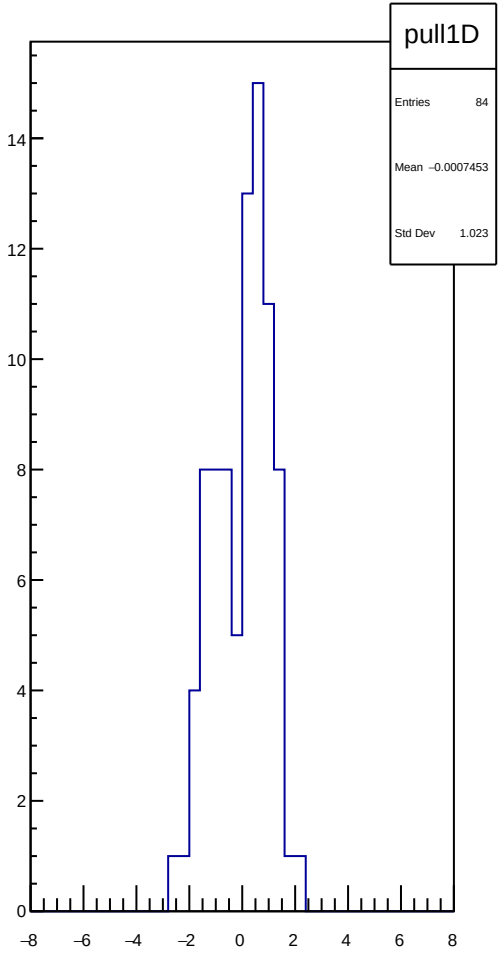

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.072e+06 / 83
p0 2.123e−11 ± 2.837e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

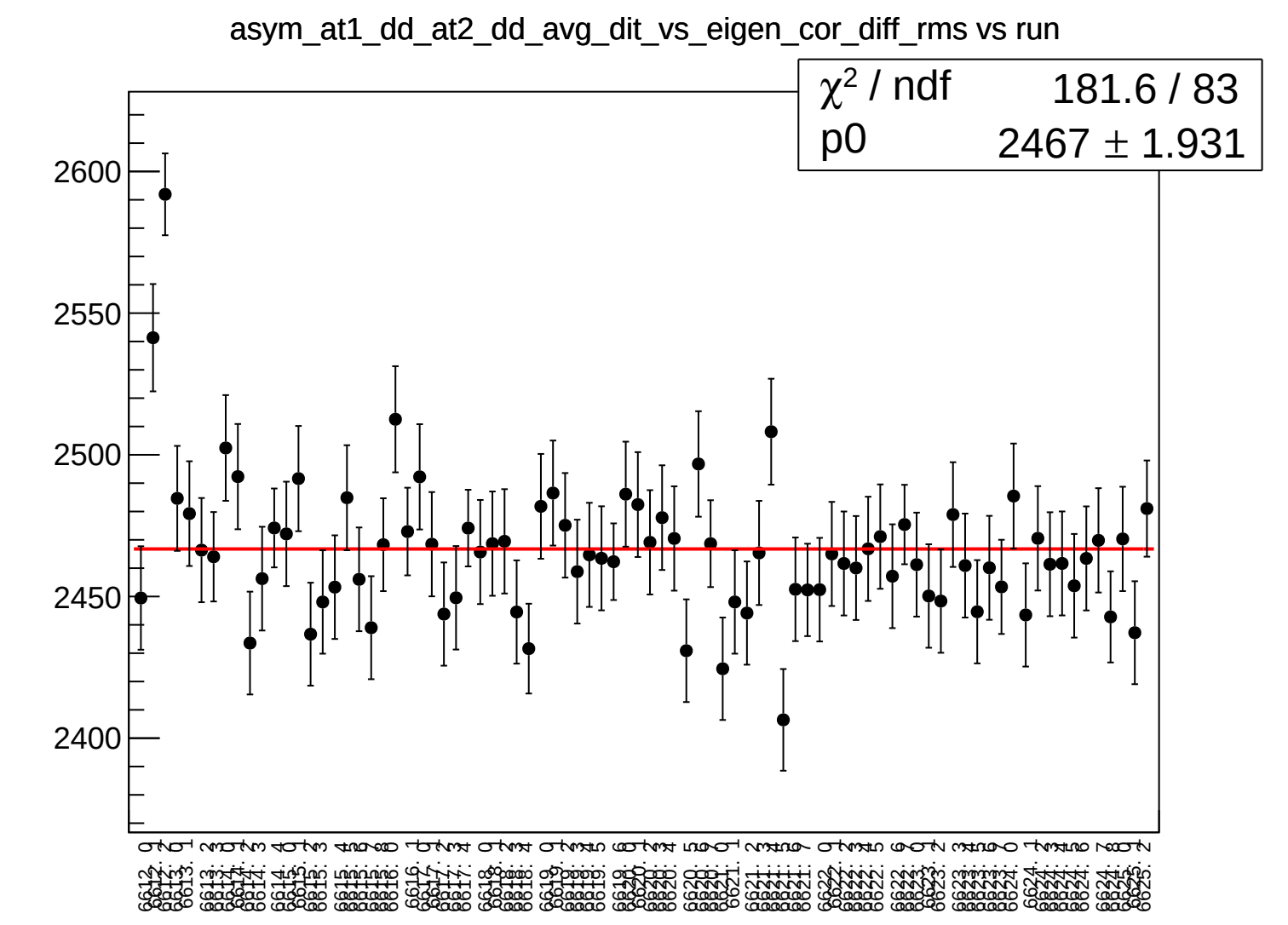

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.85 / 83
p0 −2.361 ± 2.73
pull
Entries 84
Mean −5033
Std Dev 0

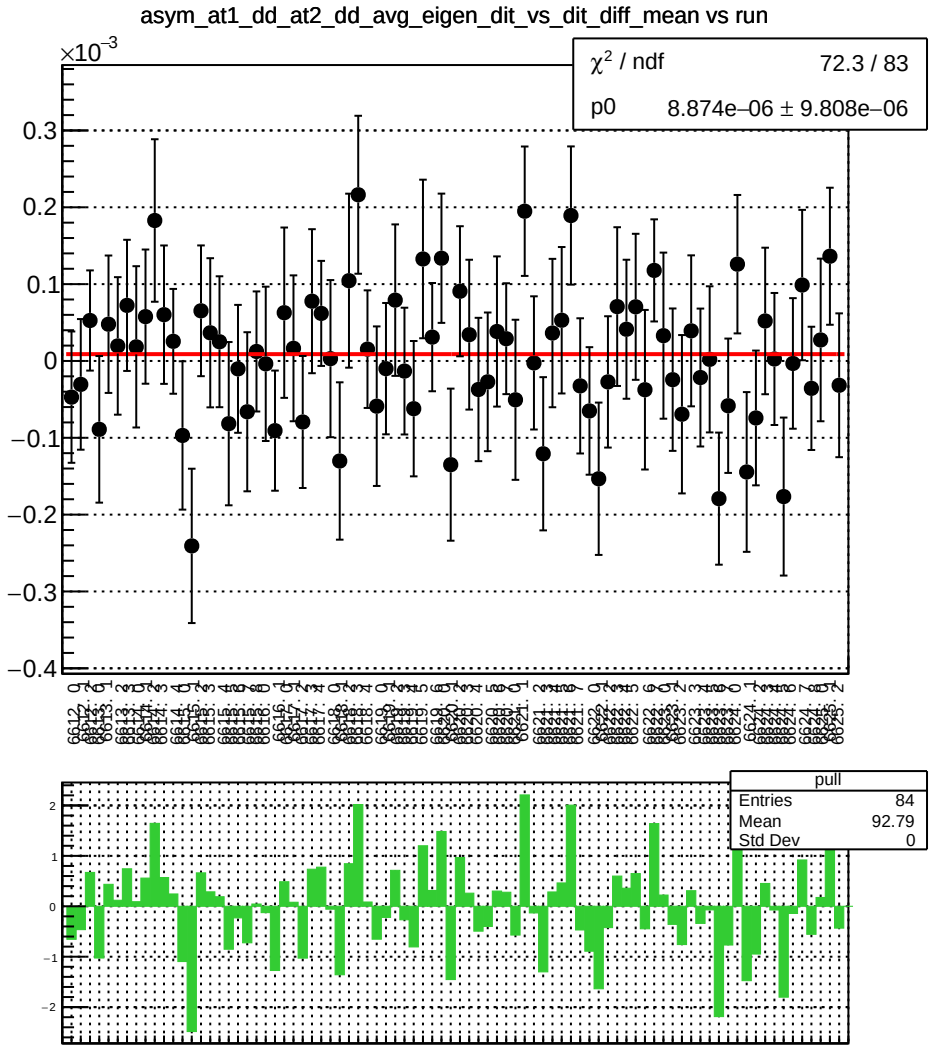

pull1D
Entries 84
Mean −0.0007453
Std Dev 1.023

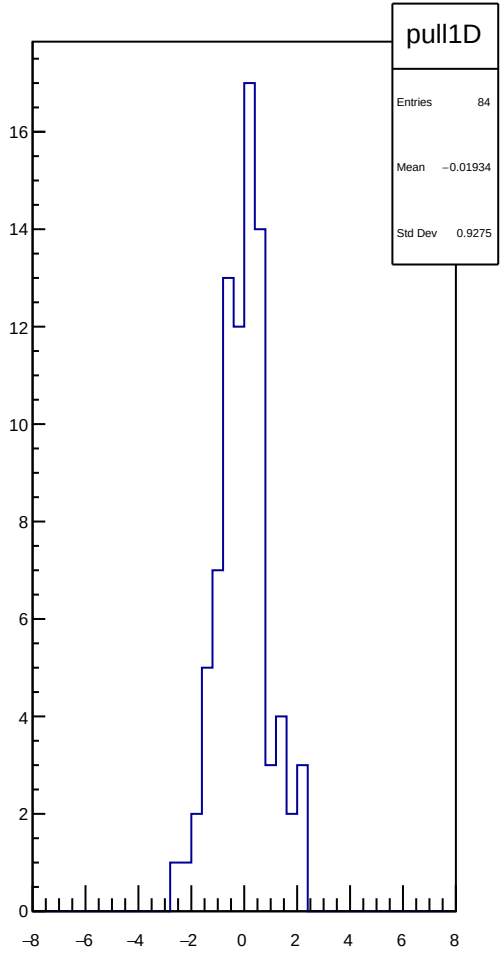

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 181.6 / 83
p0 2467 ± 1.931
2600
2550
2500
2450
2400

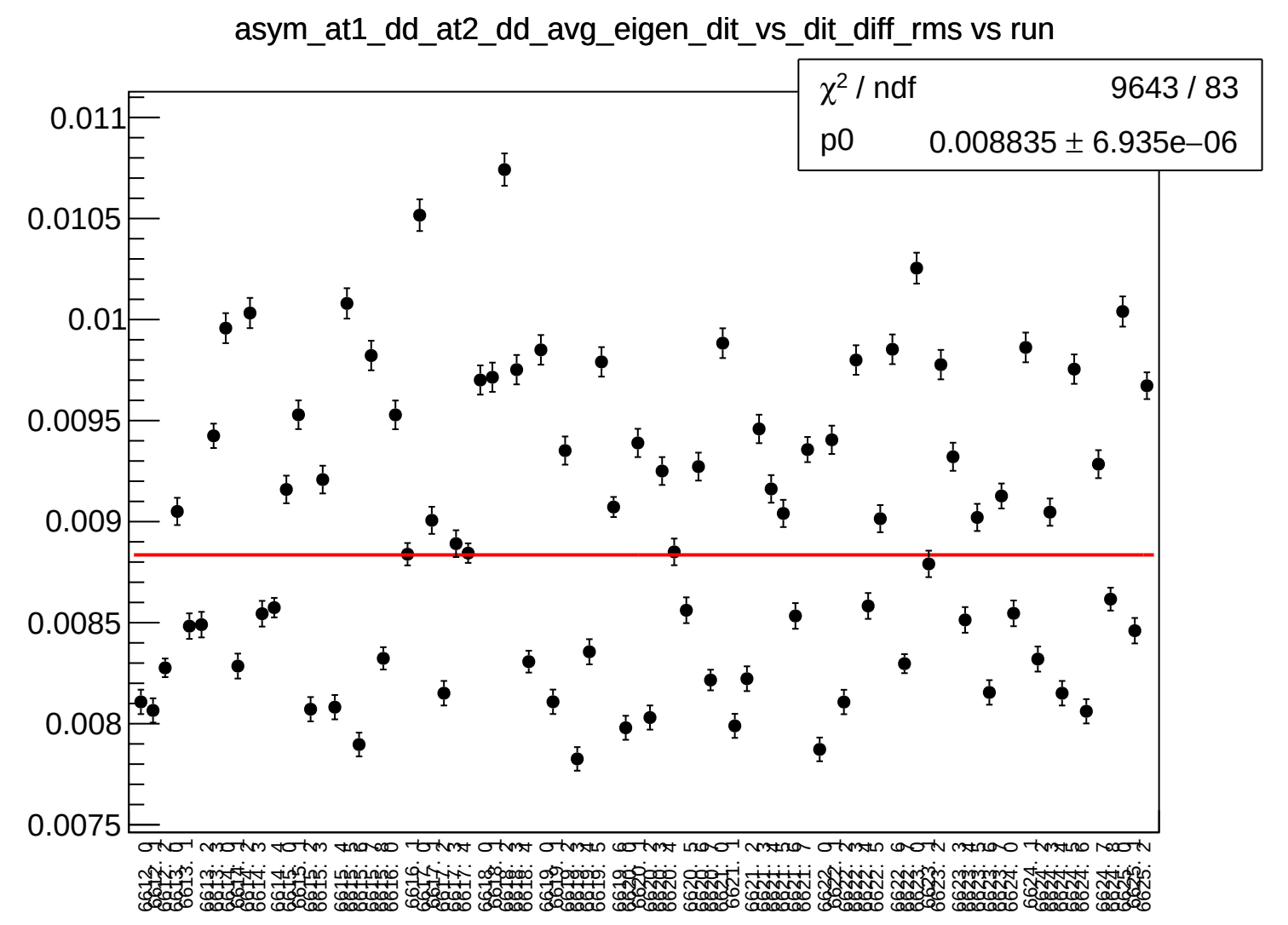

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.85 / 83
p0 −2.361 ± 2.73
pull
Entries 84
Mean −5033
Std Dev 0

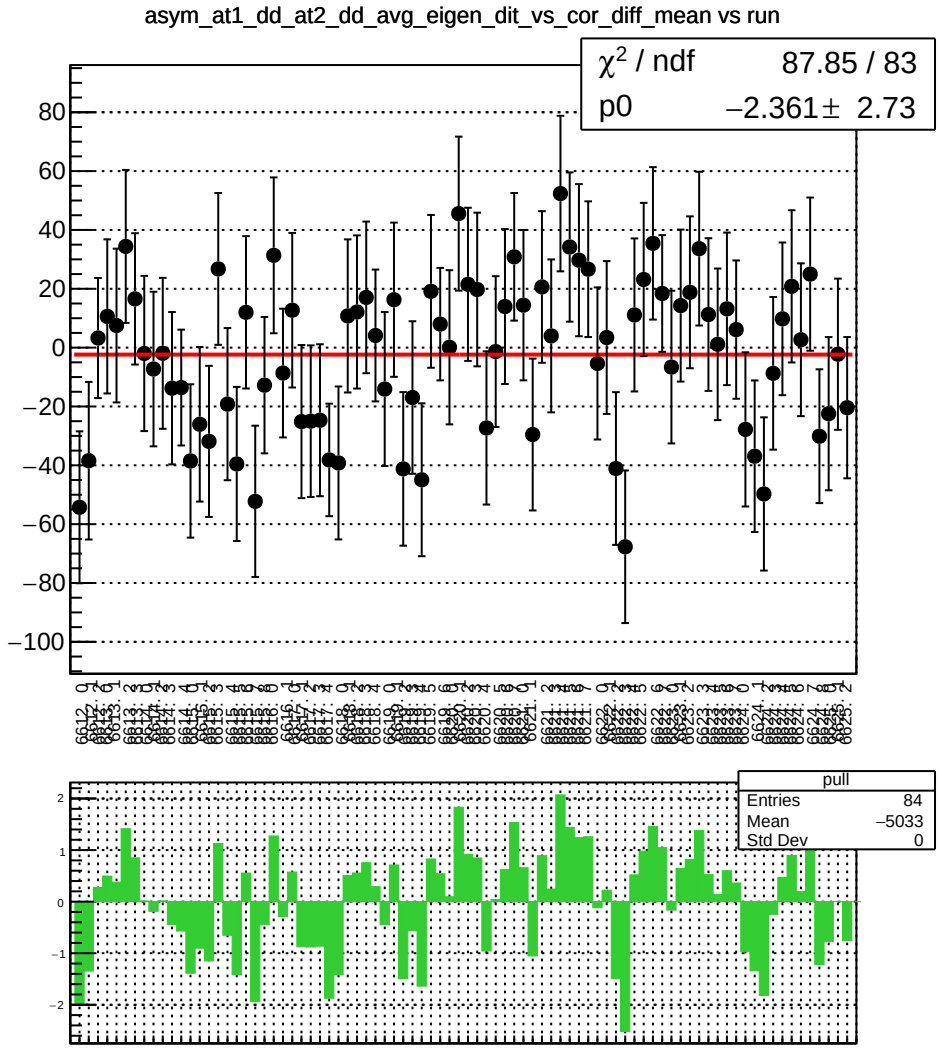

pull1D
Entries 84
Mean −0.0007453
Std Dev 1.023

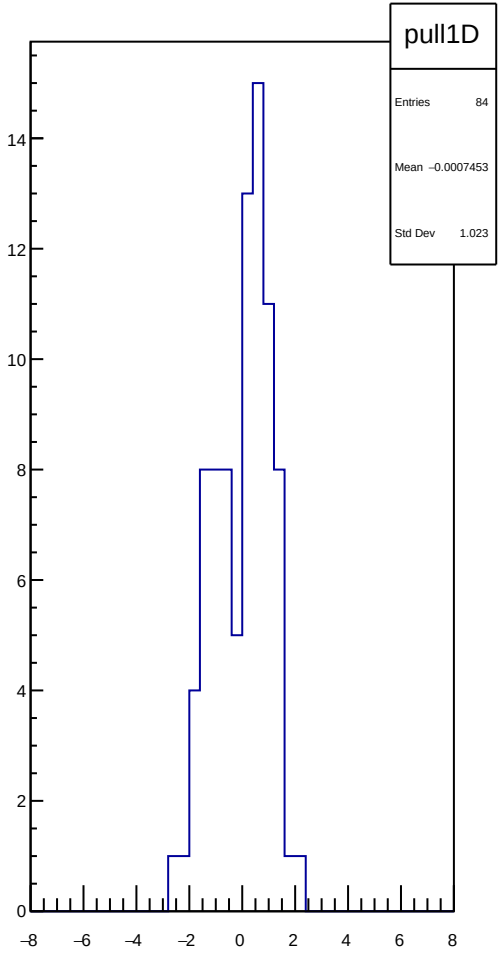

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 181.6 / 83
p0 2467 ± 1.931
2600
2550
2500
2450
2400

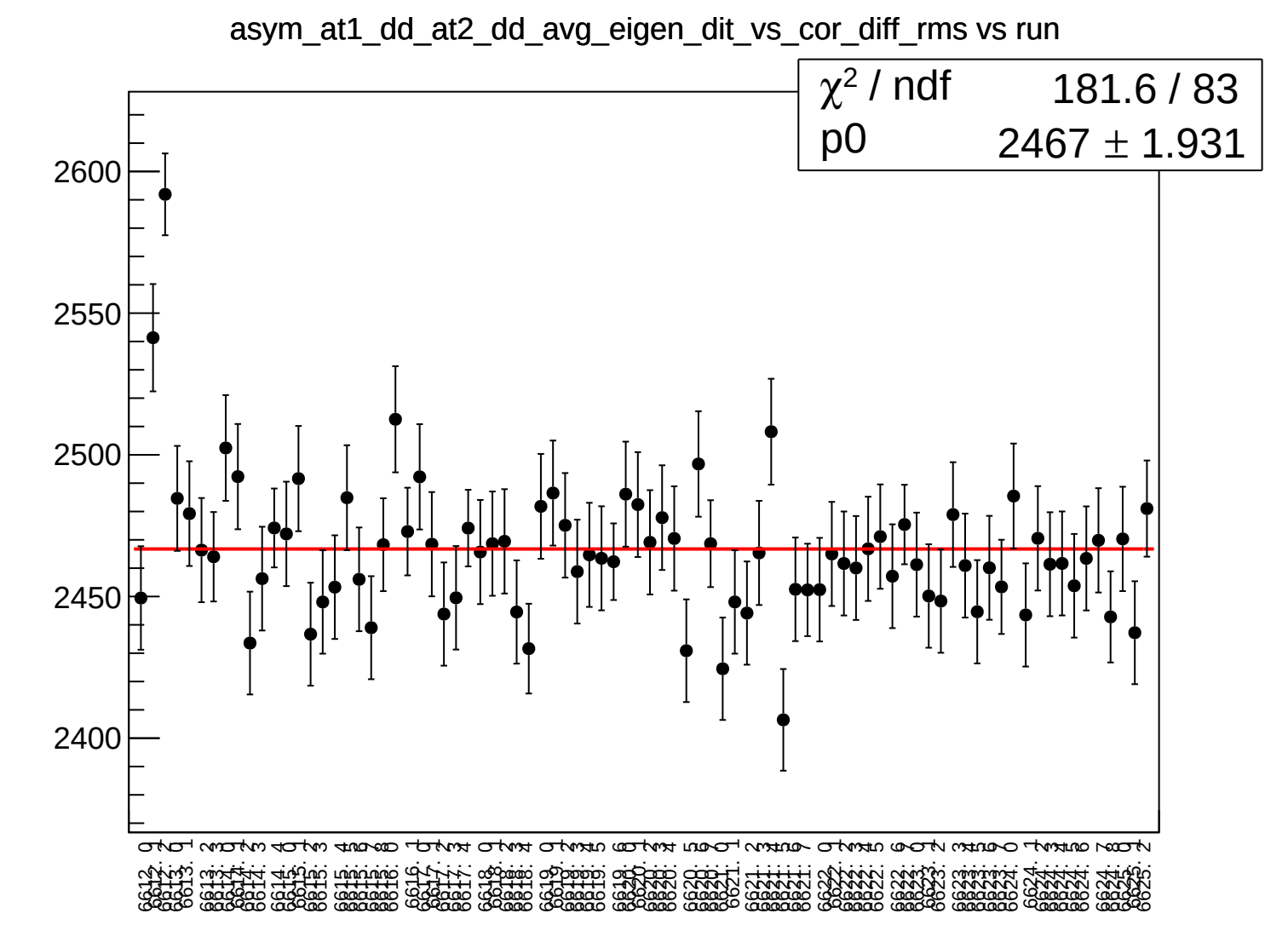

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.3 / 83
p0 8.874e−06 ± 9.808e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 84
Mean 92.79
Std Dev 0
2
1
0
−1
−2

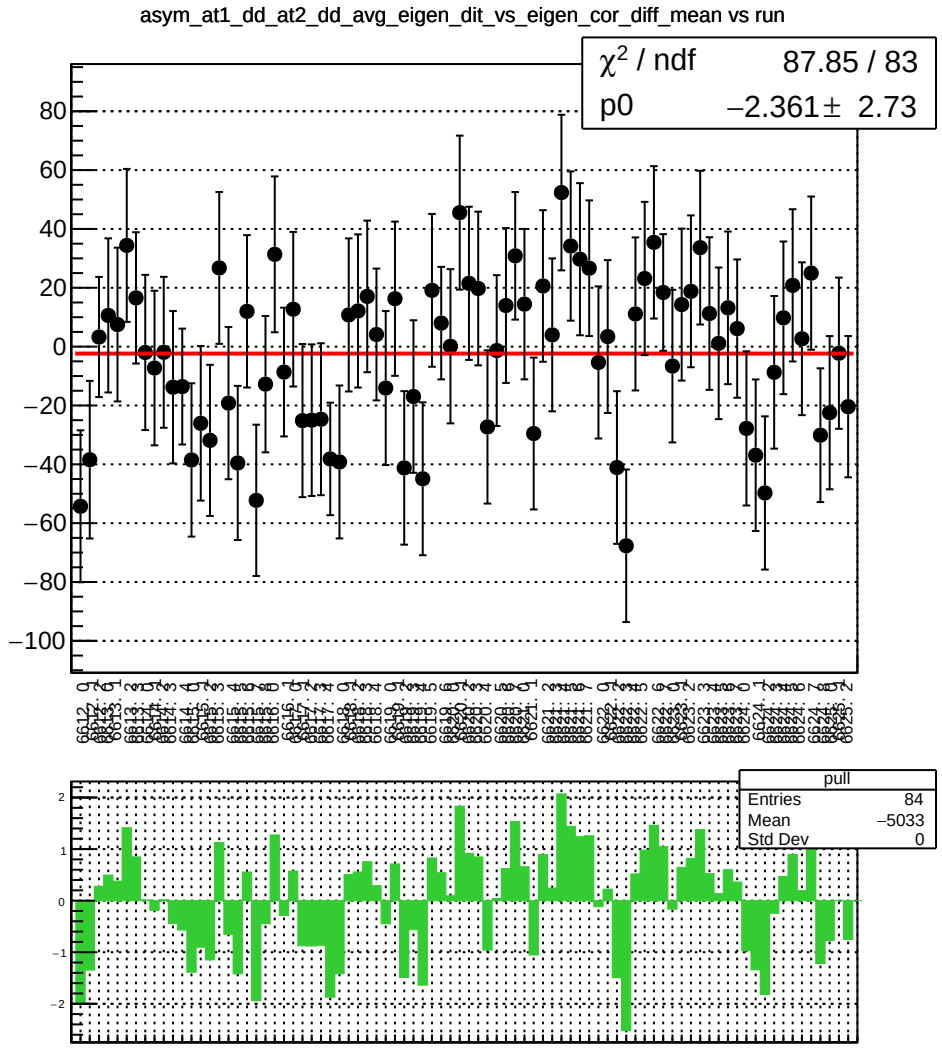

pull1D
Entries 84
Mean −0.01934
Std Dev 0.9275
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

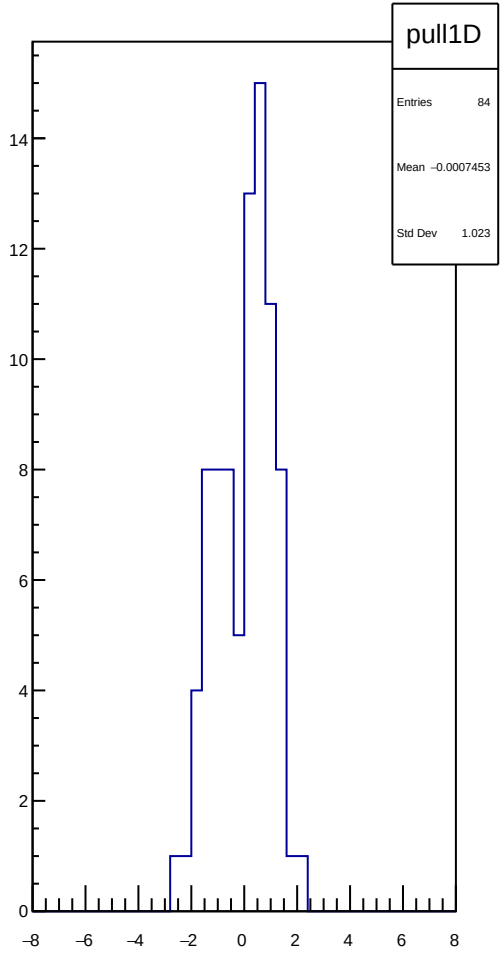

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9643 / 83
p0 0.008835 ± 6.935e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075

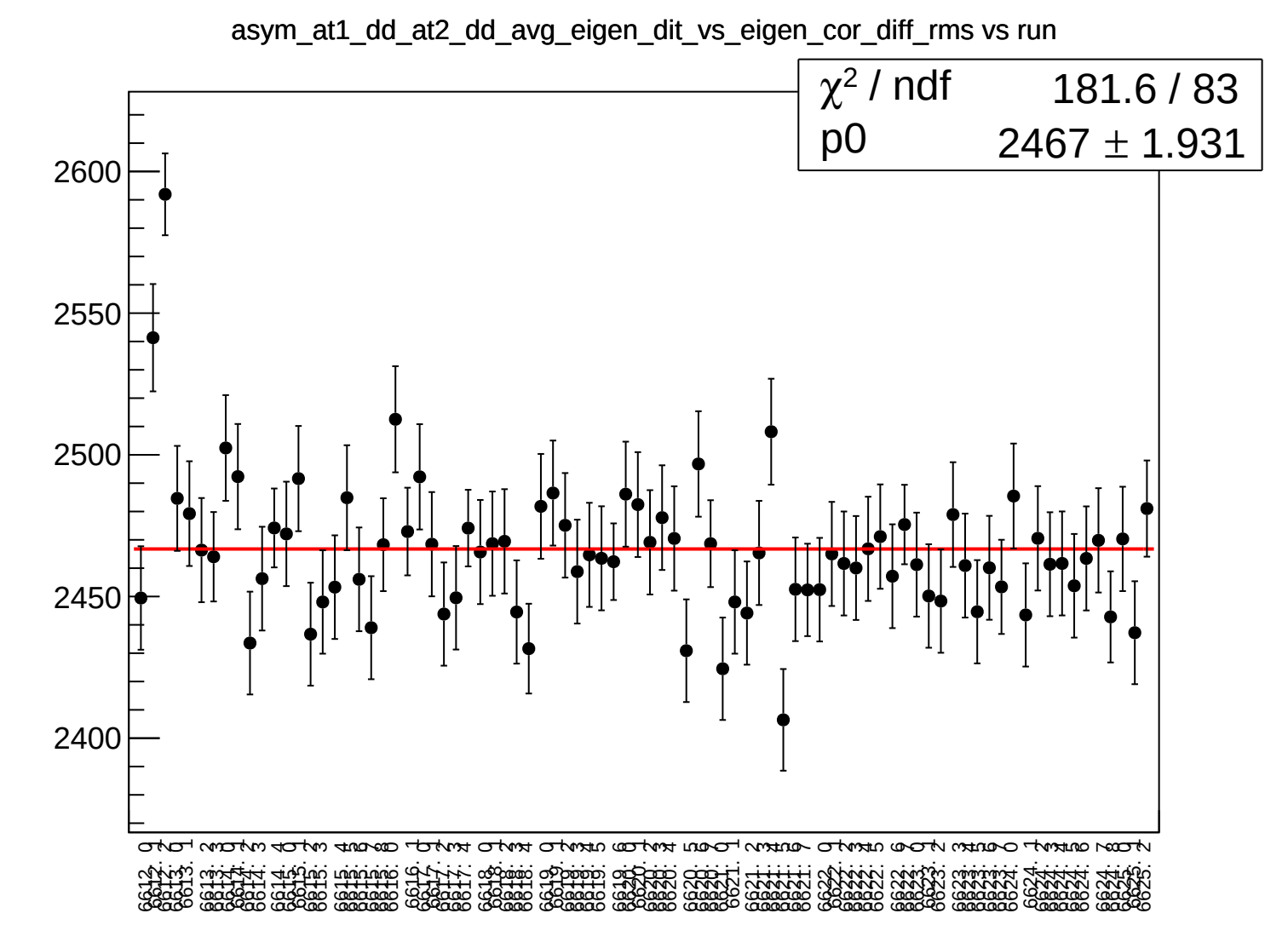

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.85 / 83
p0 −2.361± 2.73
pull
Entries 84
Mean −5033
Std Dev 0

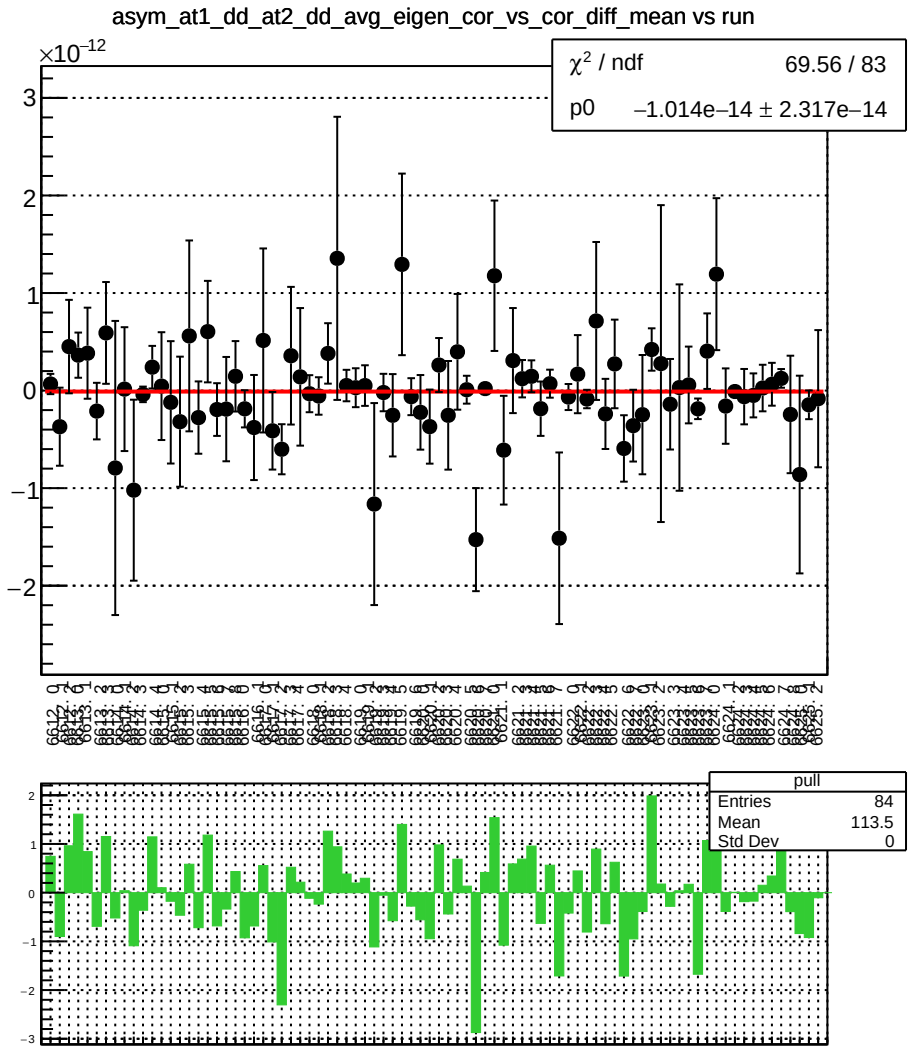

pull1D
Entries 84
Mean −0.0007453
Std Dev 1.023

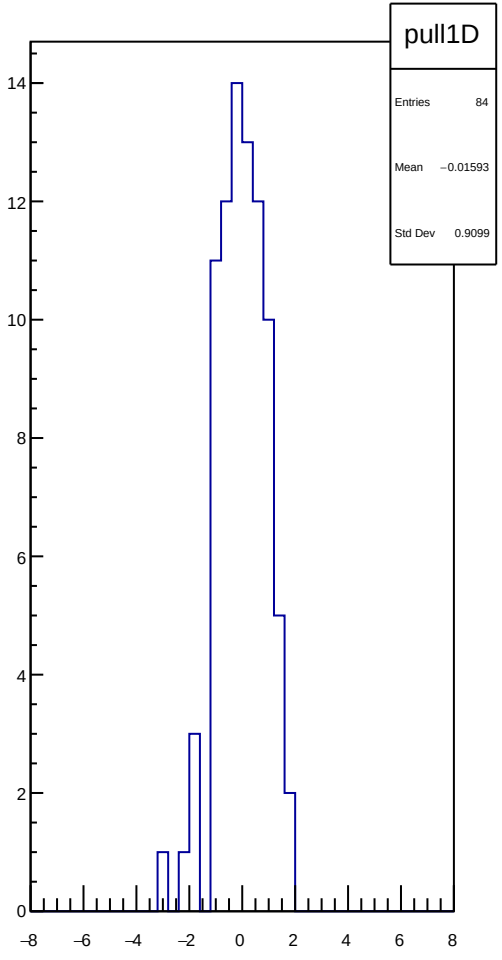

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 181.6 / 83
p0 2467 ± 1.931
2600
2550
2500
2450
2400

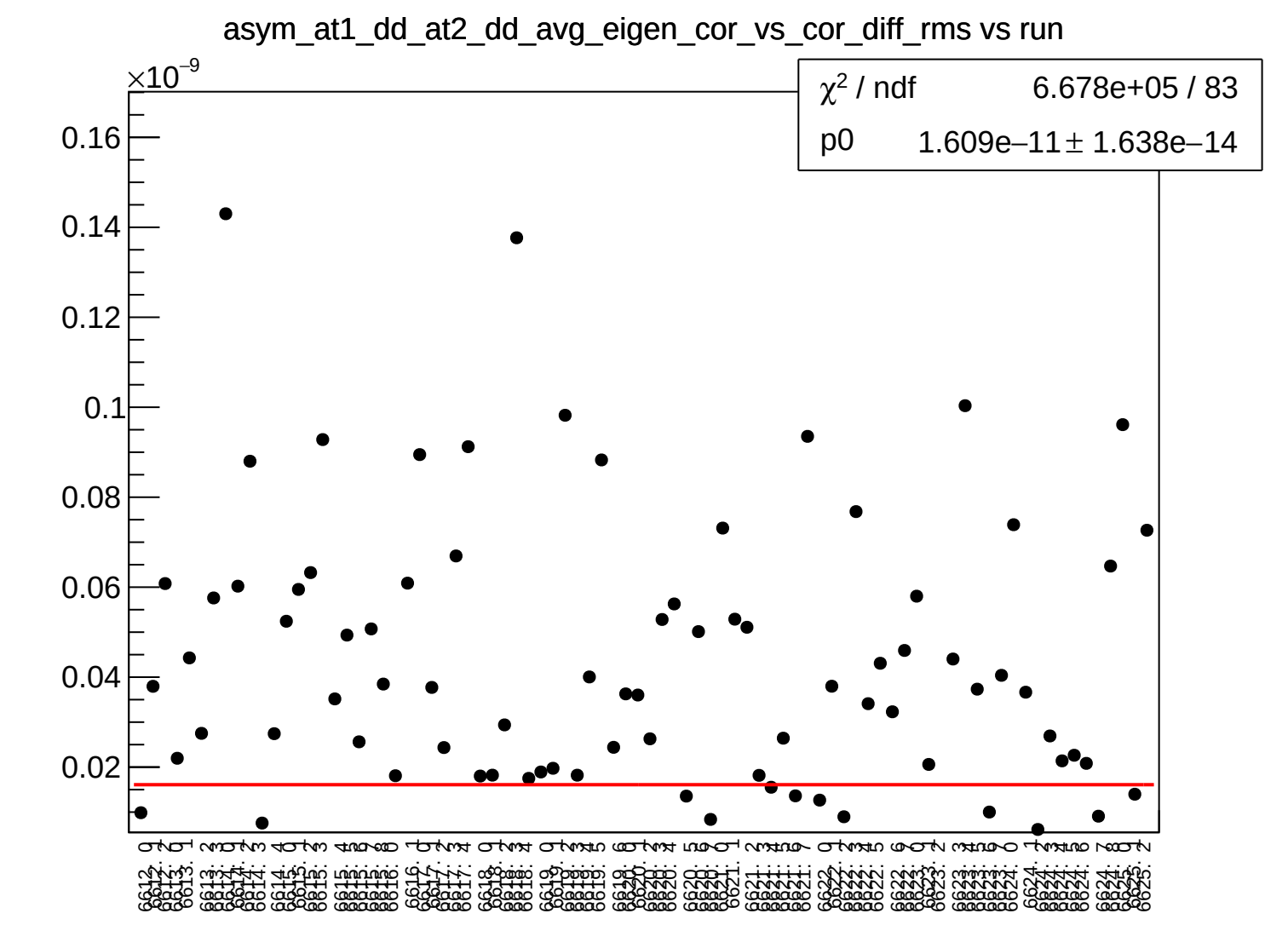

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.85 / 83
p0 −2.361± 2.73
pull
Entries 84
Mean −5033
Std Dev 0

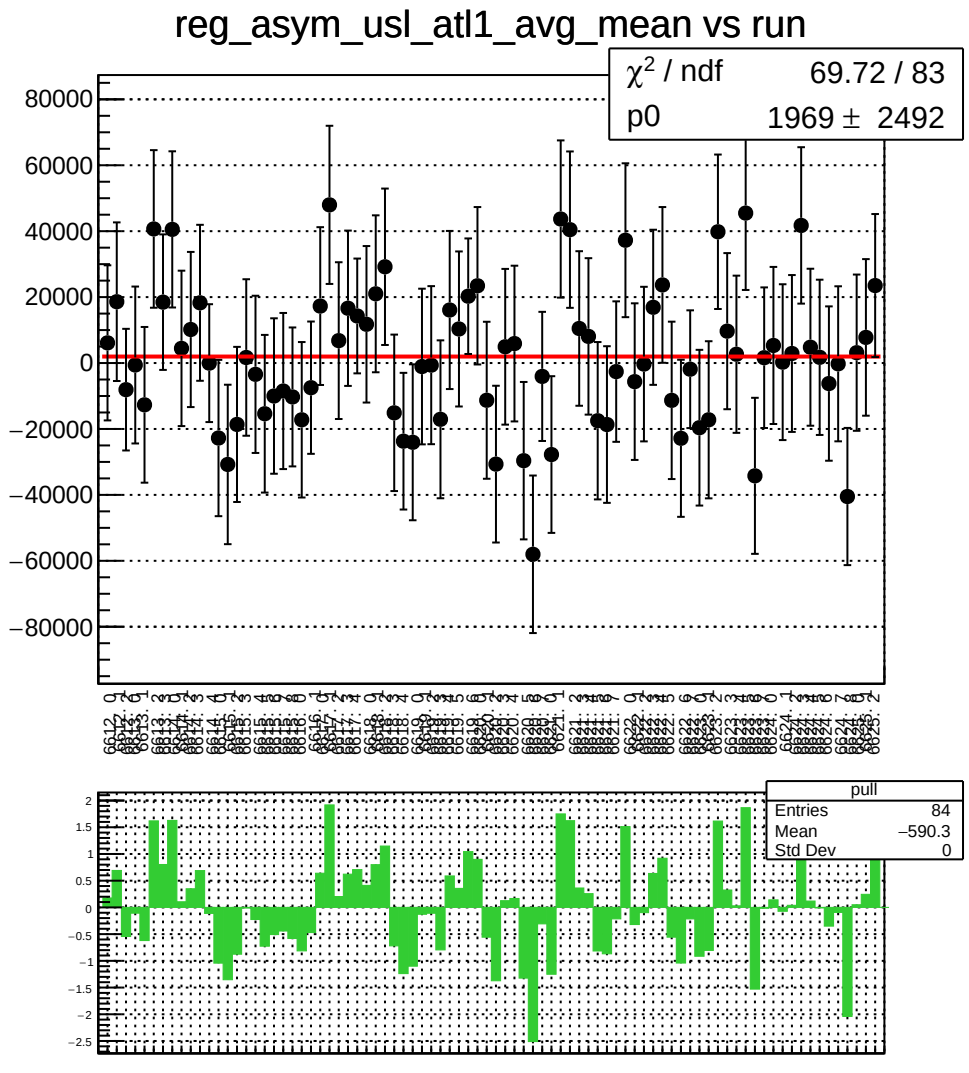

pull1D
Entries 84
Mean −0.0007453
Std Dev 1.023

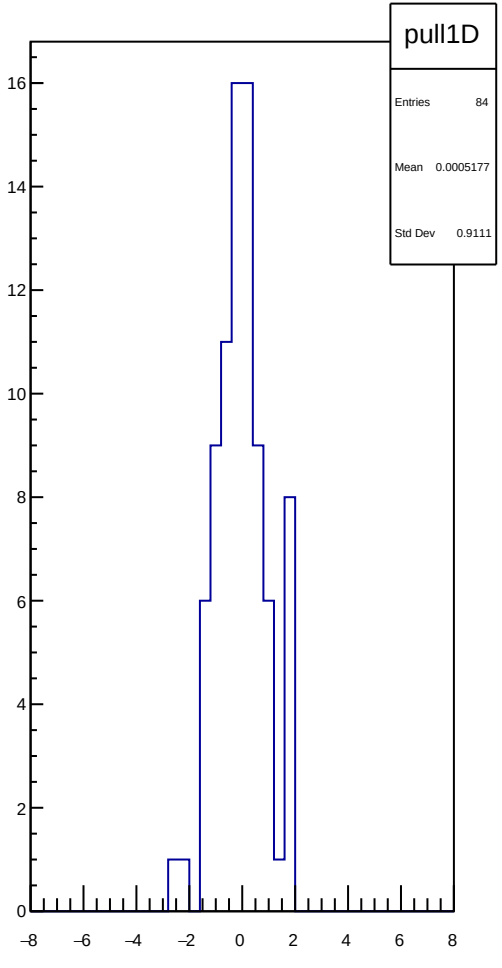

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 181.6 / 83
p0 2467 ± 1.931
2600
2550
2500
2450
2400

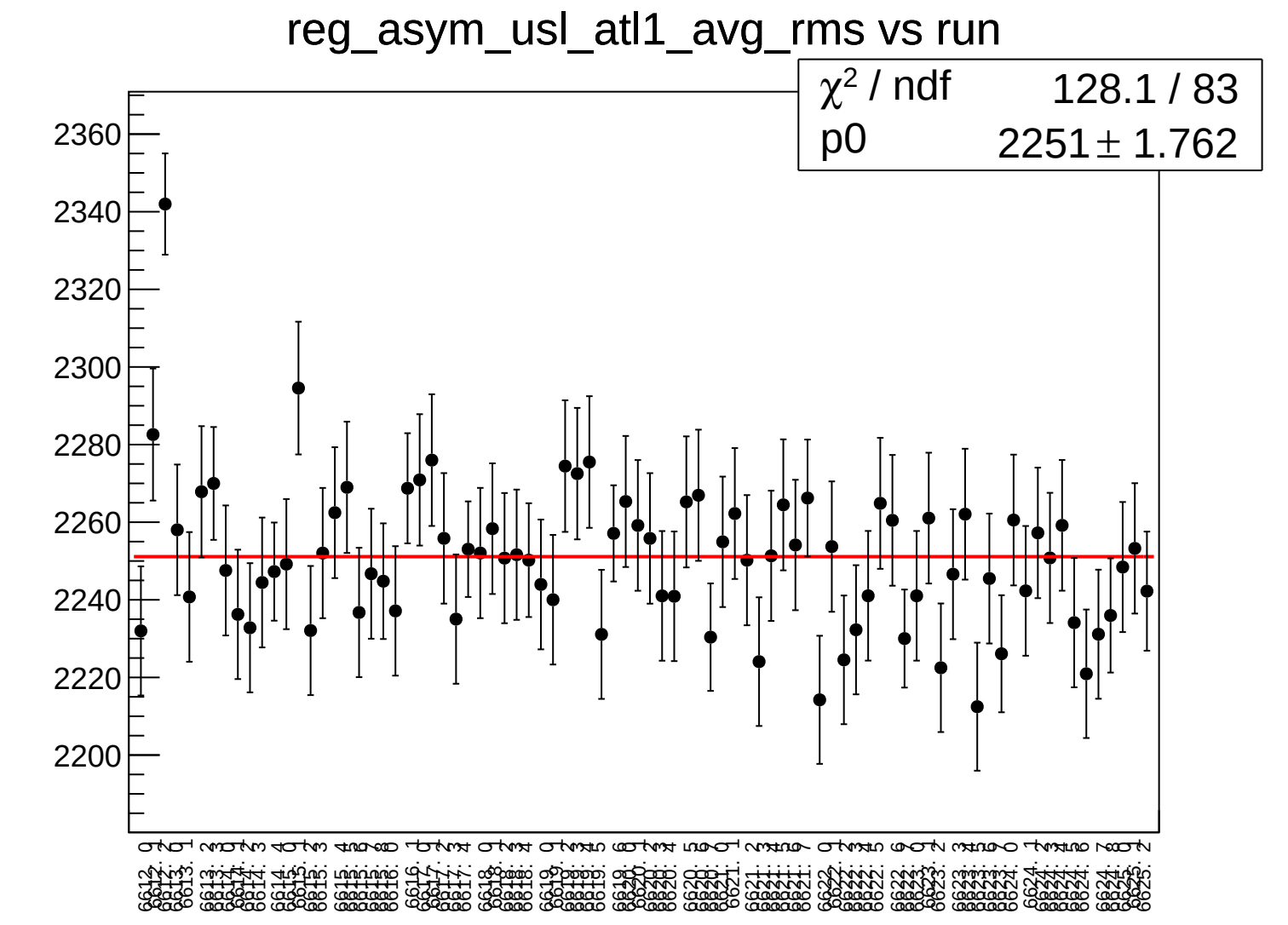

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.56 / 83
p0 −1.014e−14 ± 2.317e−14
pull
Entries 84
Mean 113.5
Std Dev 0

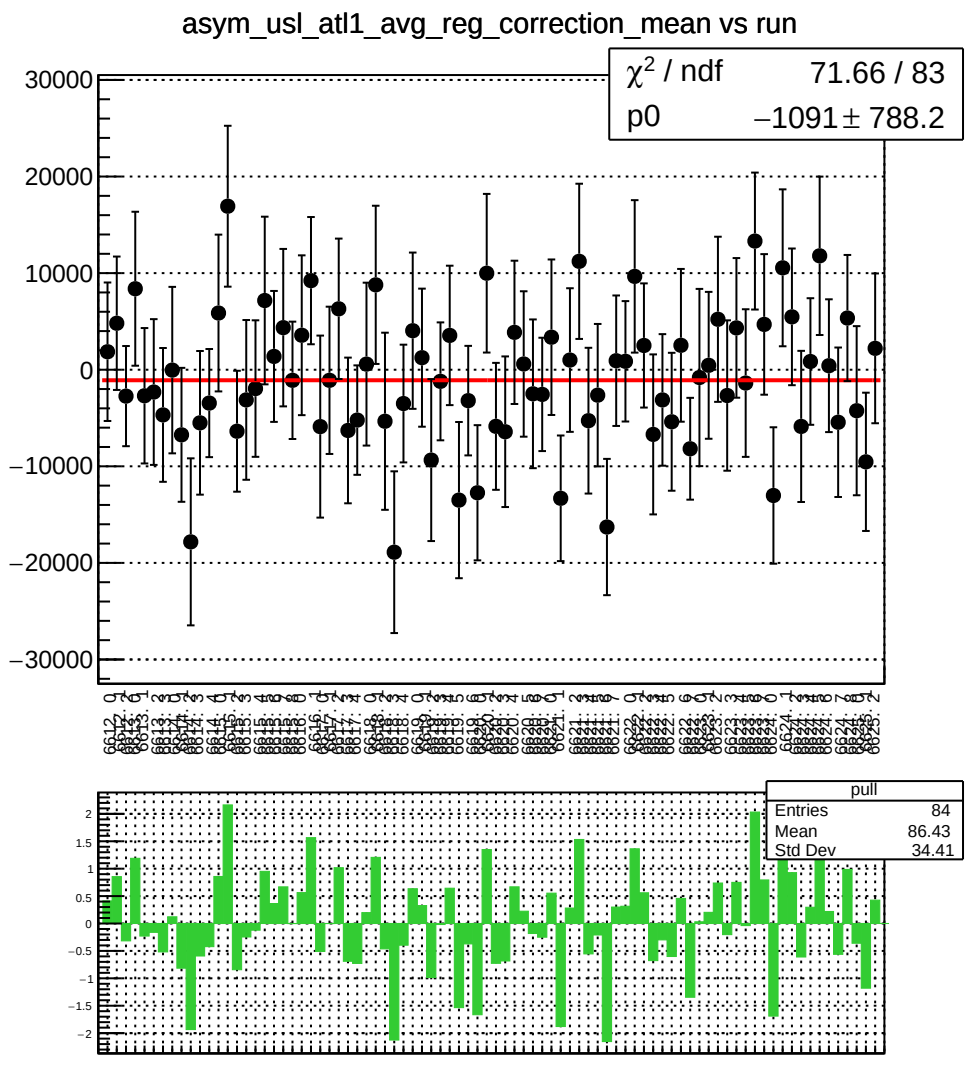

pull1D
Entries 84
Mean −0.01593
Std Dev 0.9099

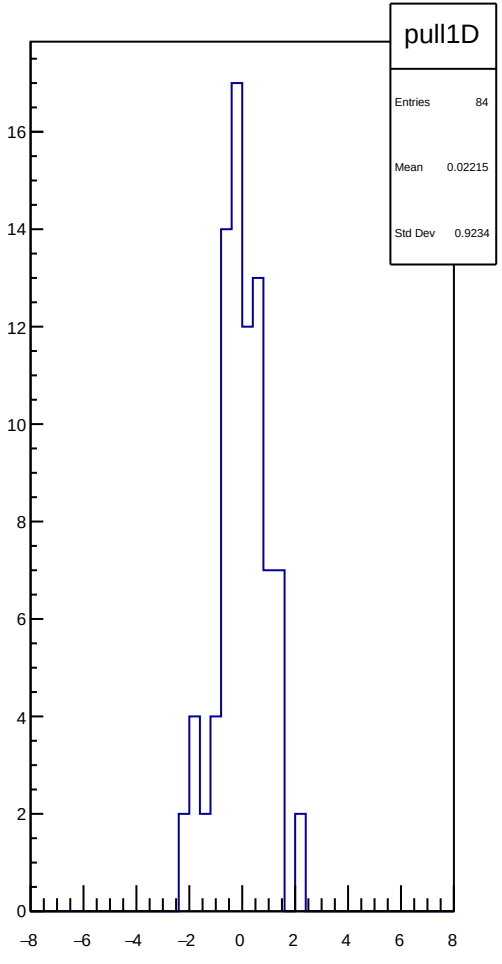

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.678e+05 / 83
p0 1.609e−11 ± 1.638e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

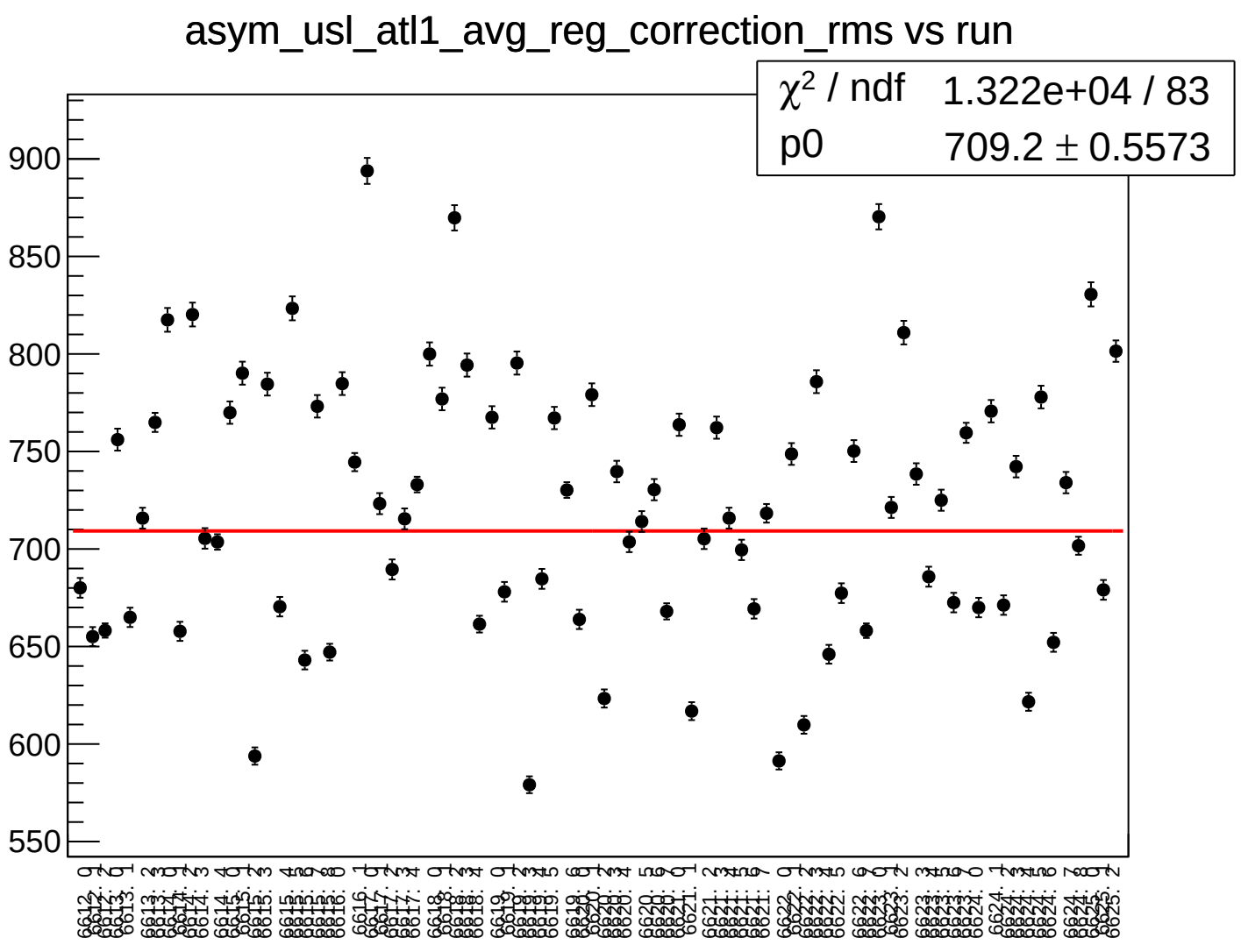

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 69.72 / 83
p0 1969 ± 2492
pull
Entries 84
Mean −590.3
Std Dev 0

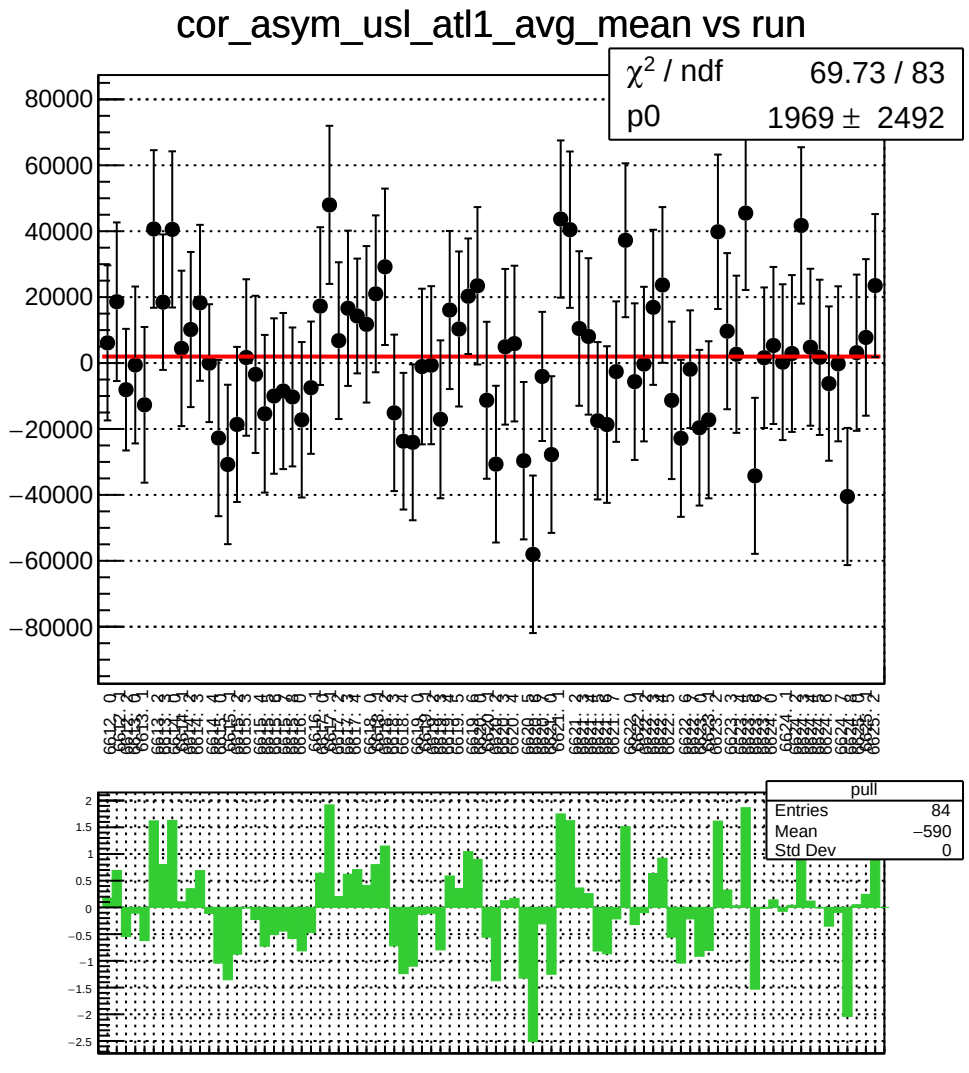

pull1D
Entries 84
Mean 0.0005177
Std Dev 0.9111

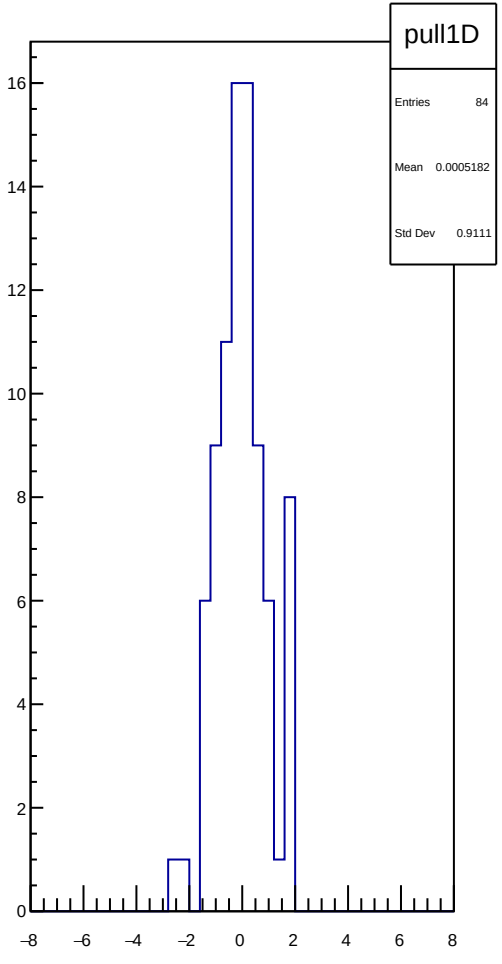

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 128.1 / 83
p0 2251 ± 1.762
2360
2340
2320
2300
2280
2260
2240
2220
2200

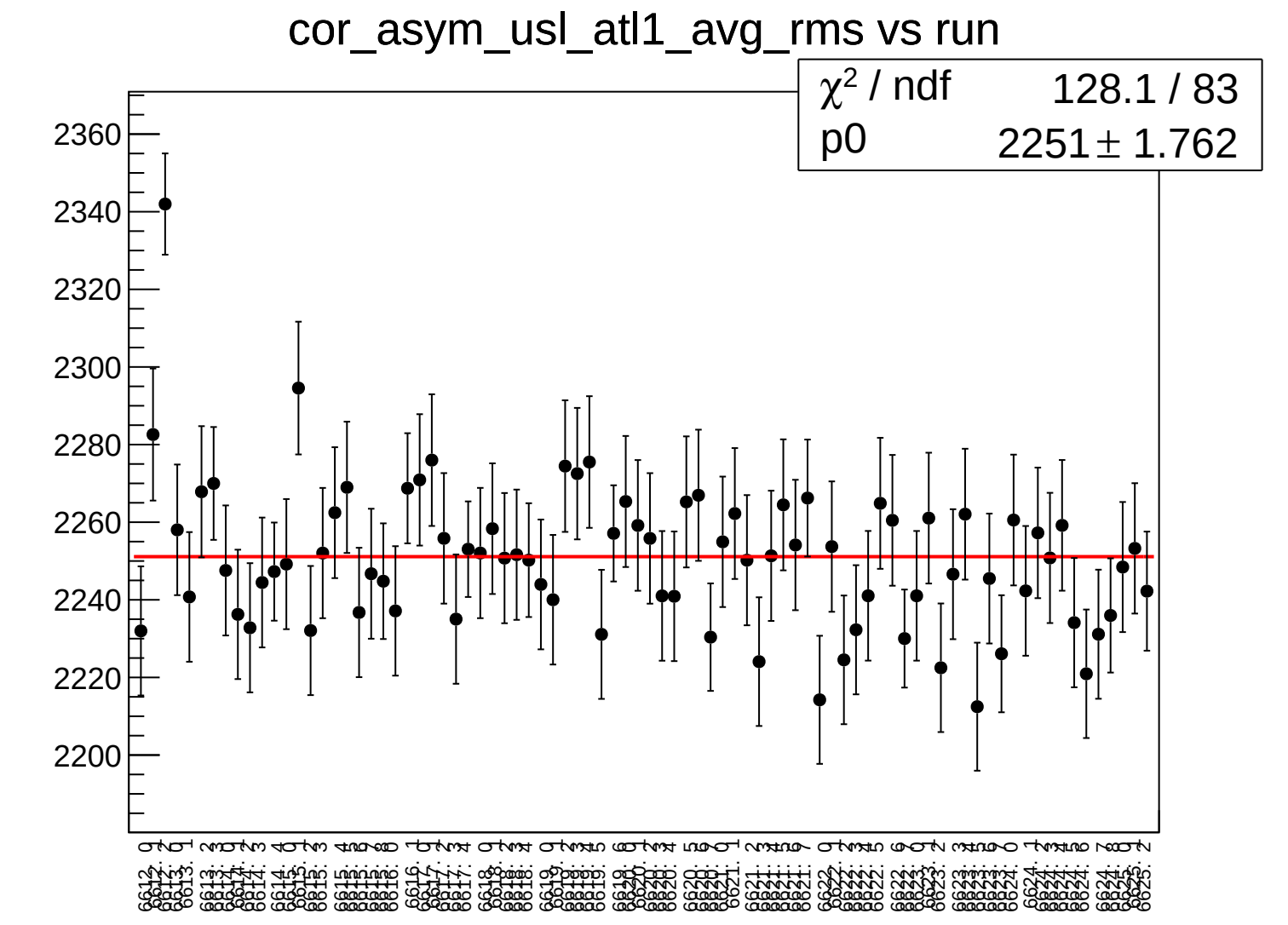

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 71.66 / 83
p0 −1091 ± 788.2
pull
Entries 84
Mean 86.43
Std Dev 34.41

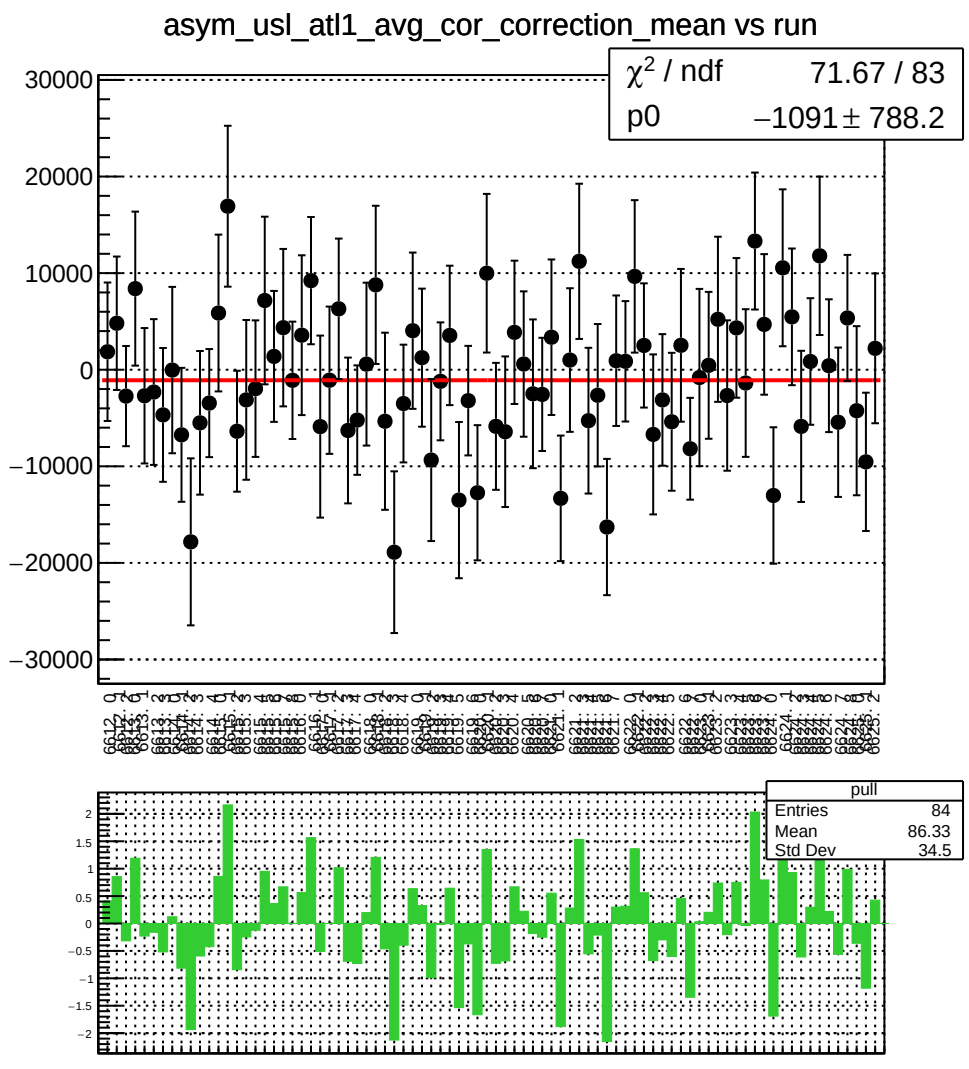

pull1D
Entries 84
Mean 0.02215
Std Dev 0.9234

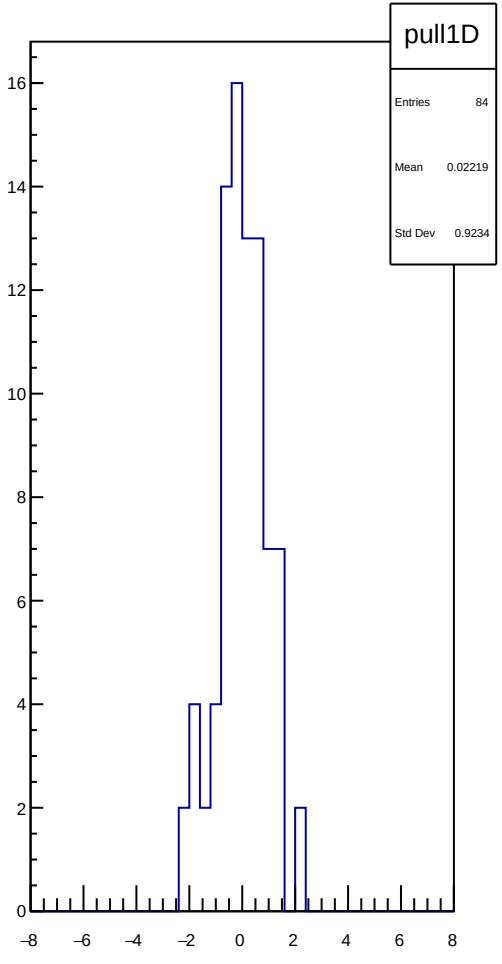

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.322e+04 / 83
p0 709.2 ± 0.5573
900
850
800
750
700
650
600
550

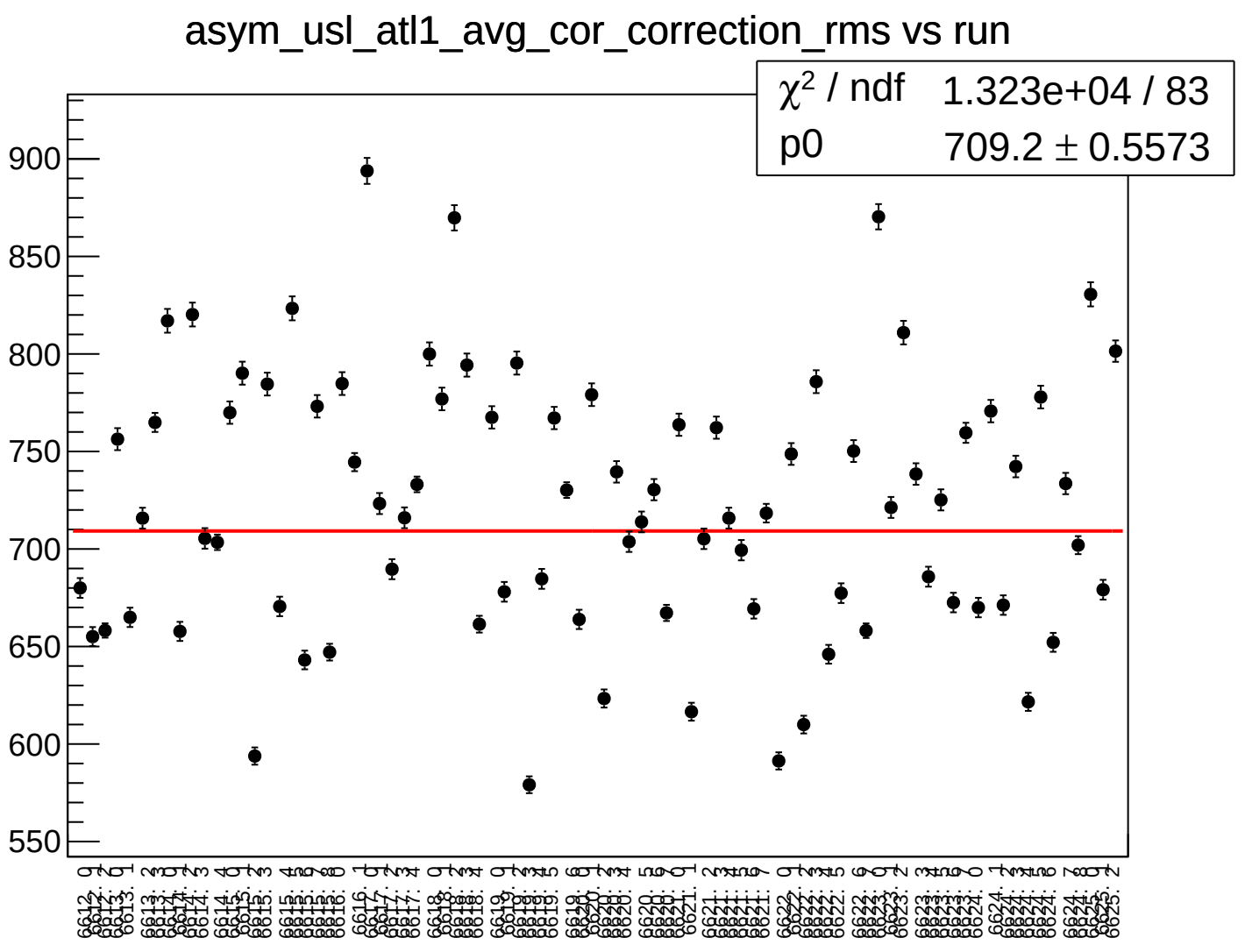

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 69.73 / 83
p0 1969 ± 2492
pull
Entries 84
Mean −590
Std Dev 0

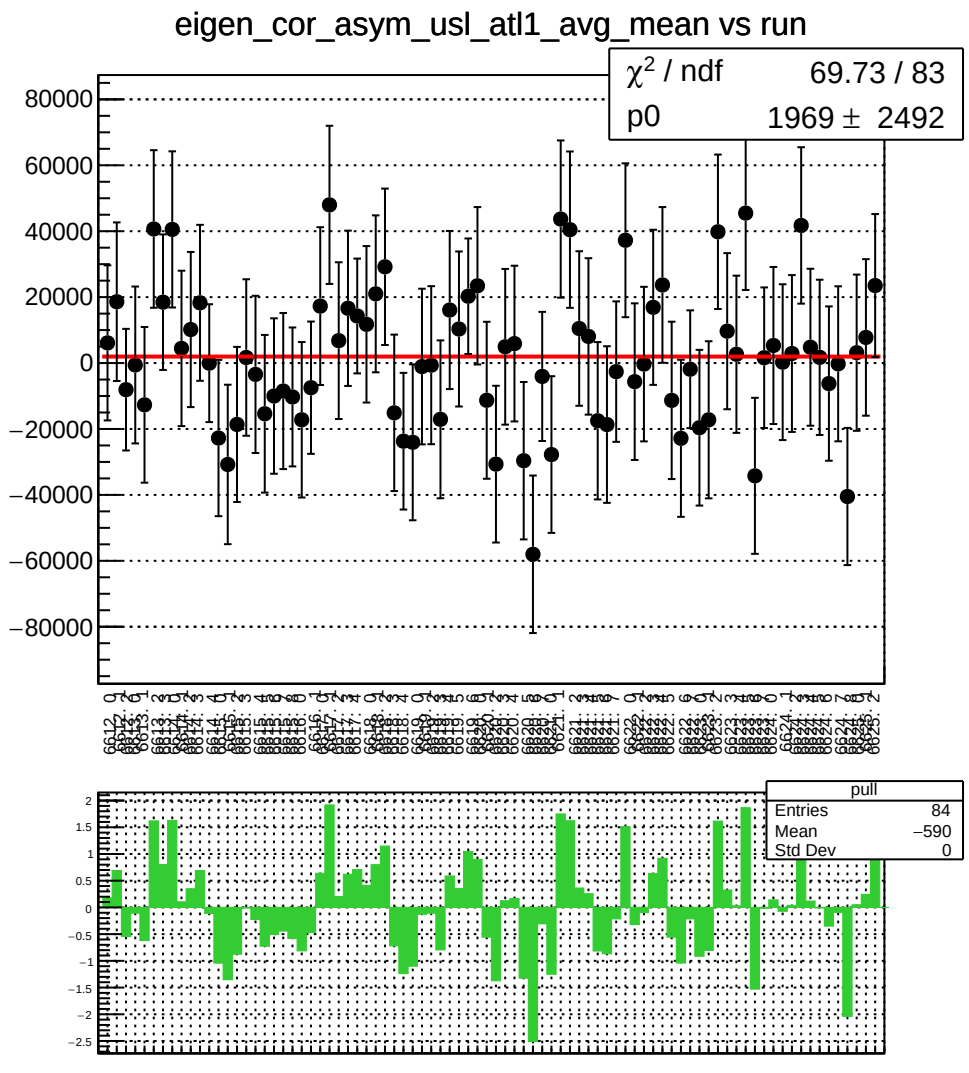

pull1D
Entries 84
Mean 0.0005182
Std Dev 0.9111

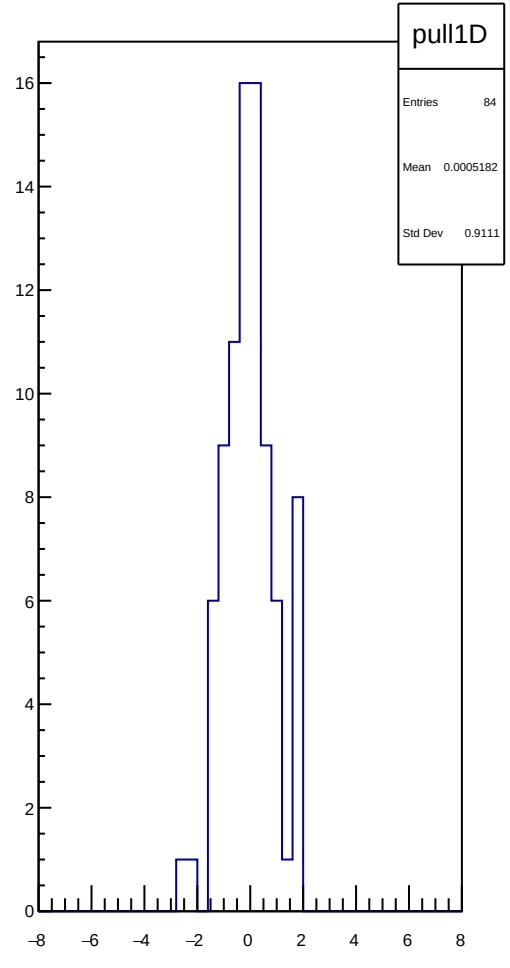

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 128.1 / 83
p0 2251 ± 1.762
2360
2340
2320
2300
2280
2260
2240
2220
2200

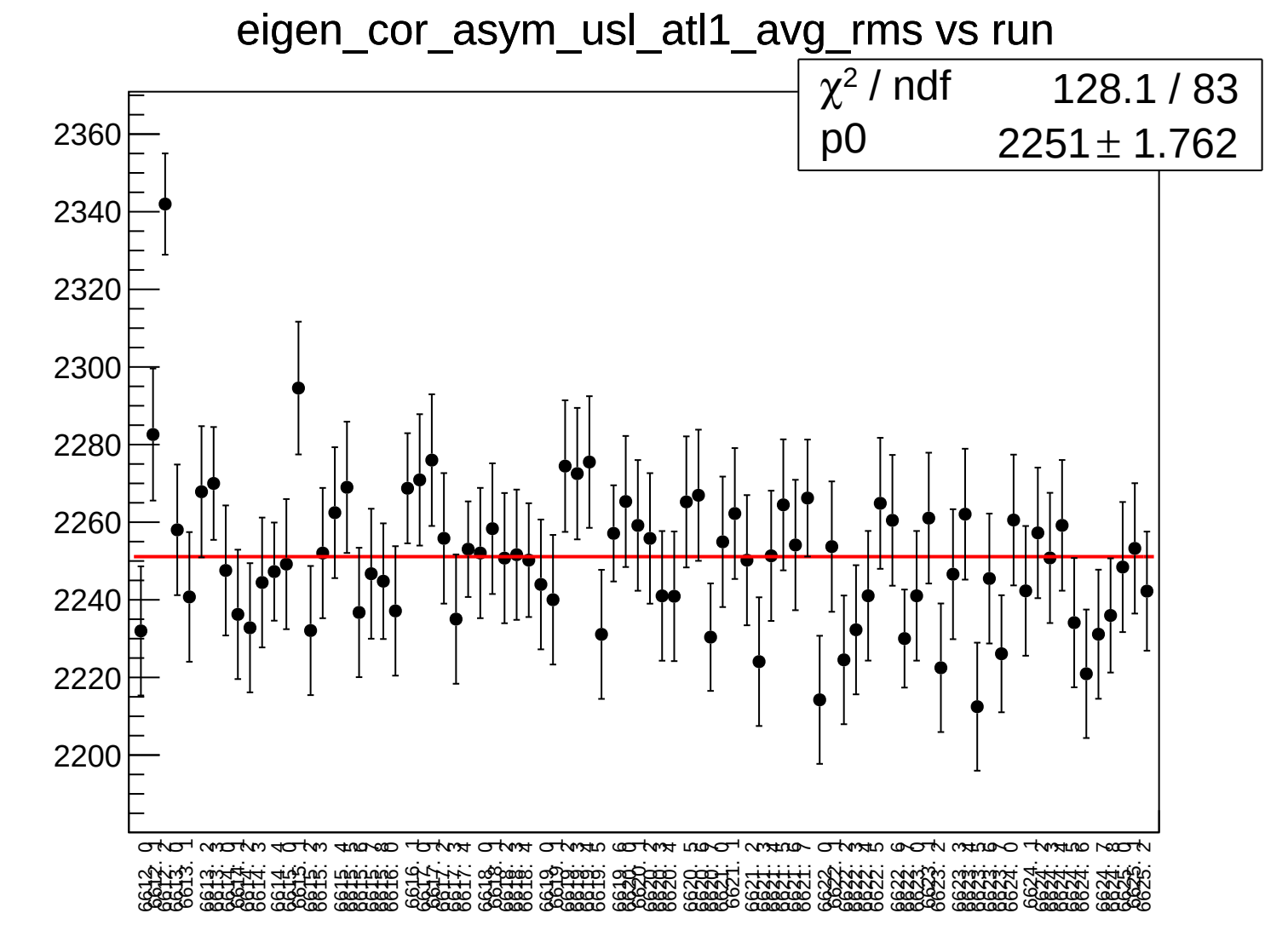

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 71.67 / 83
p0 −1091 ± 788.2
pull
Entries 84
Mean 86.33
Std Dev 34.5

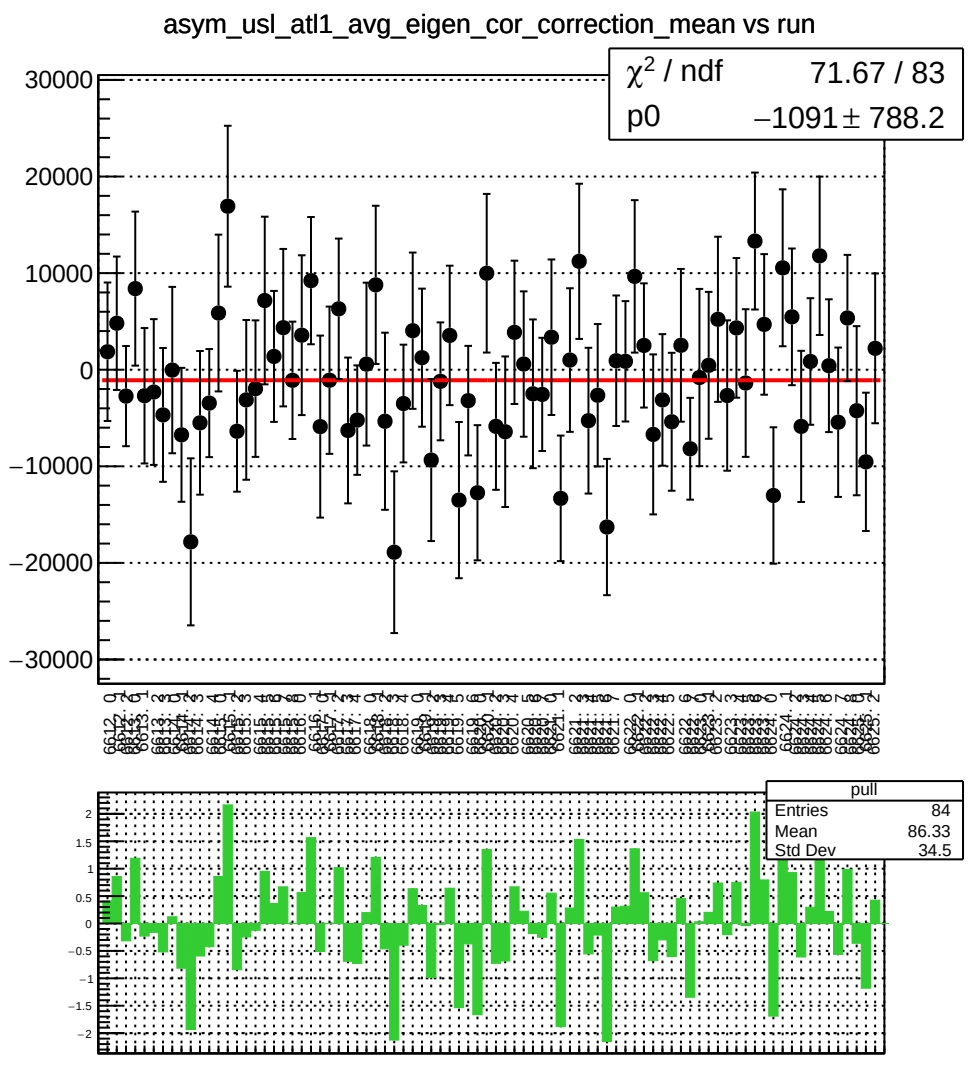

pull1D
Entries 84
Mean 0.02219
Std Dev 0.9234

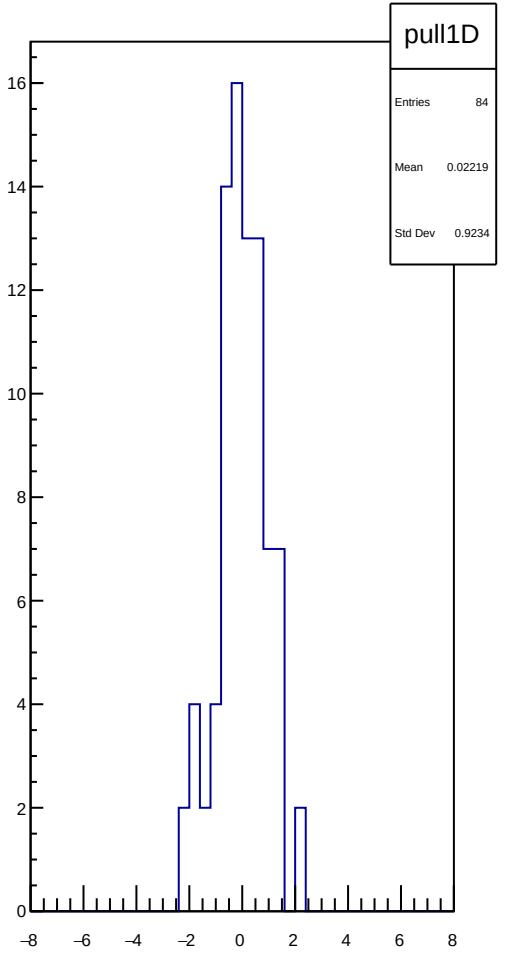

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.323e+04 / 83
p0 709.2 ± 0.5573
900
850
800
750
700
650
600
550

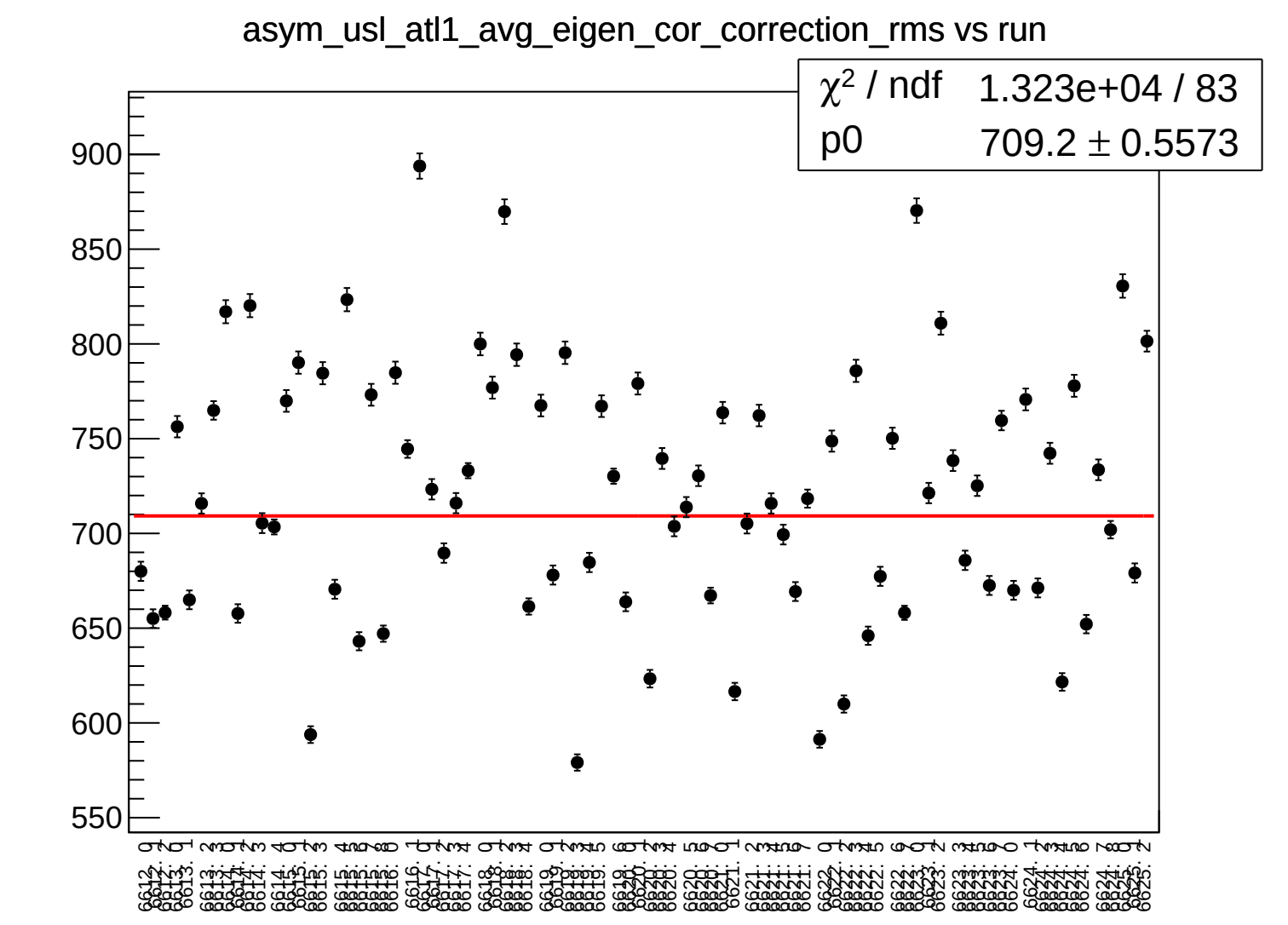

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 69.73 / 83
p0 1969 ± 2492
pull
Entries 84
Mean −590
Std Dev 0

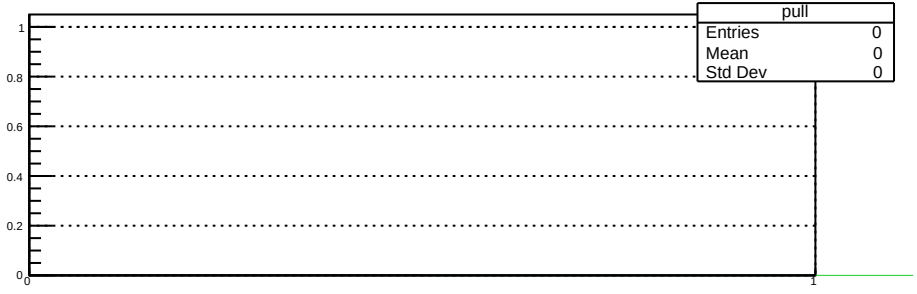

pull1D
Entries 84
Mean 0.0005182
Std Dev 0.9111

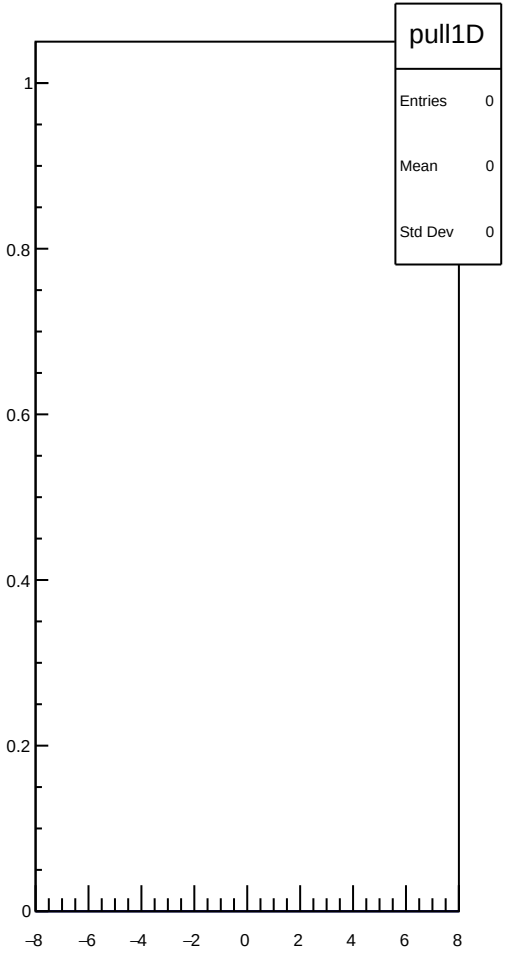

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 128.1 / 83
p0 2251 ± 1.762
2360
2340
2320
2300
2280
2260
2240
2220
2200

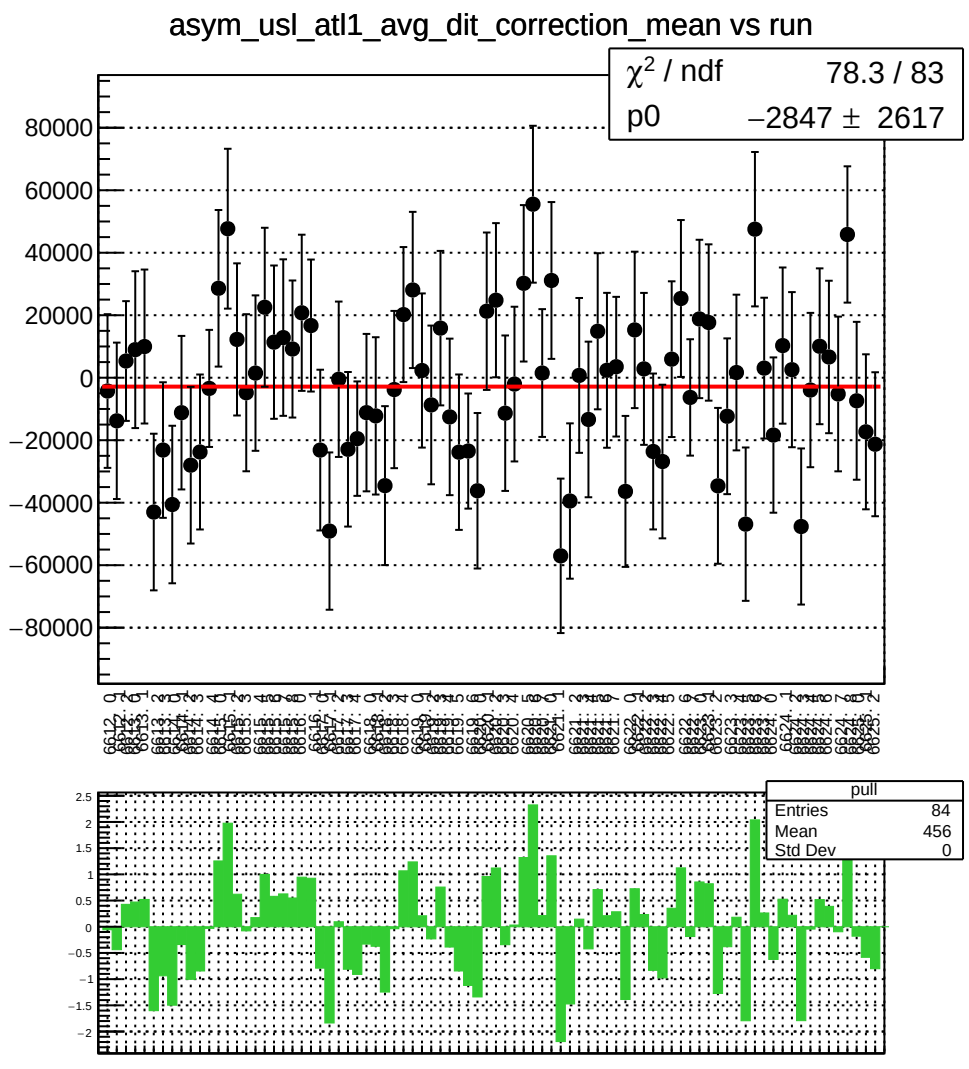

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 71.67 / 83
p0 −1091 ± 788.2
pull
Entries 84
Mean 86.33
Std Dev 34.5

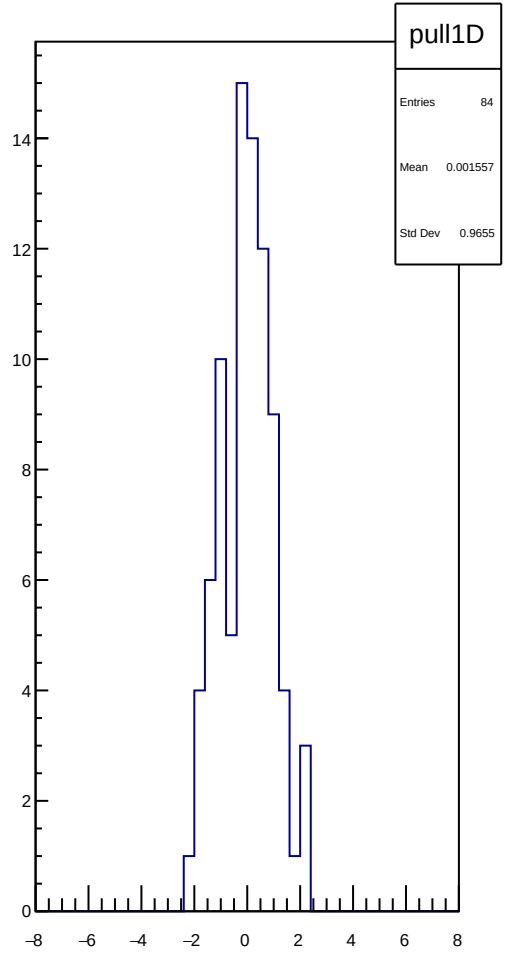

pull1D
Entries 84
Mean 0.02219
Std Dev 0.9234

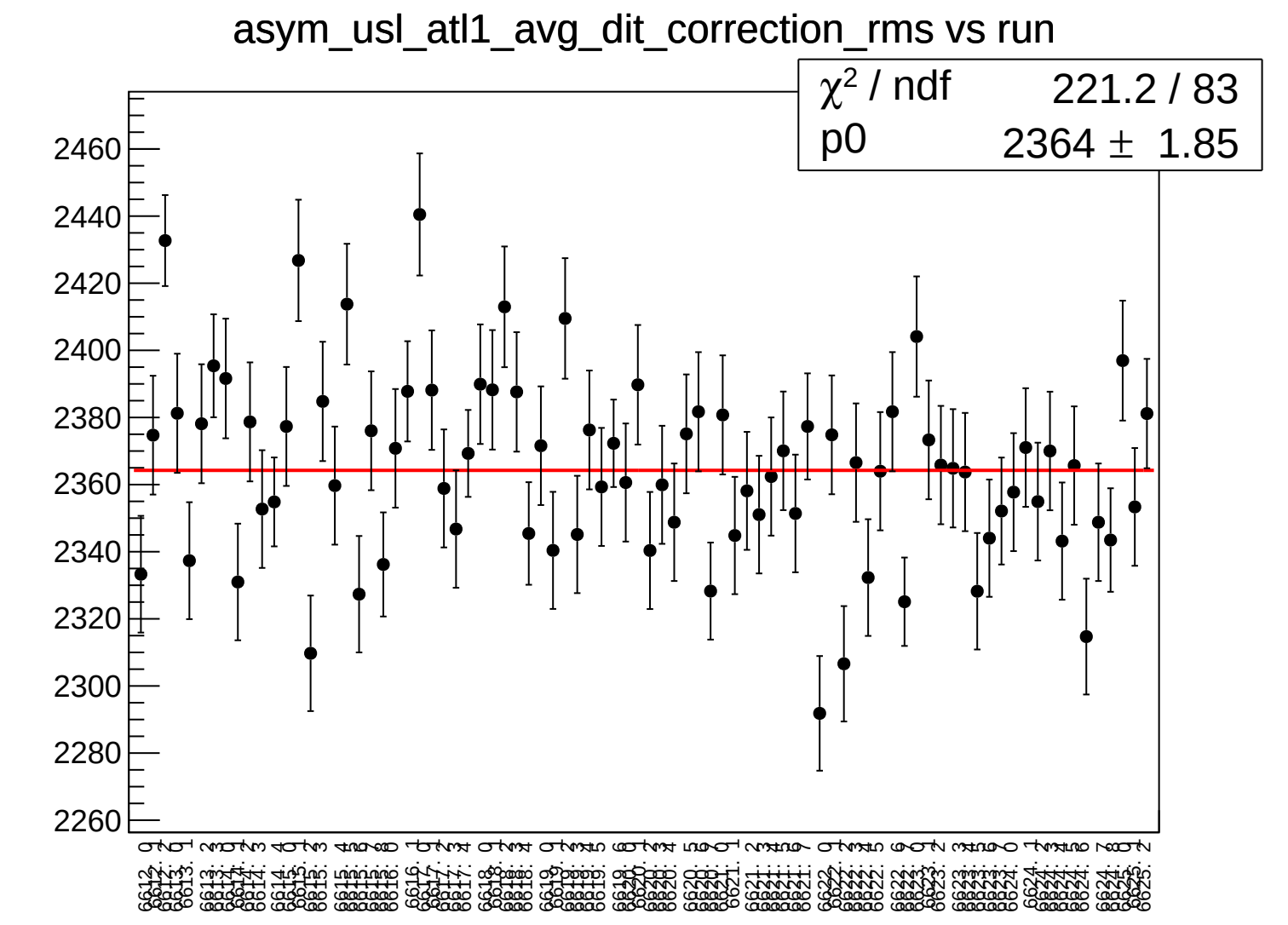

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.323e+04 / 83
p0 709.2 ± 0.5573
900
850
800
750
700
650
600
550

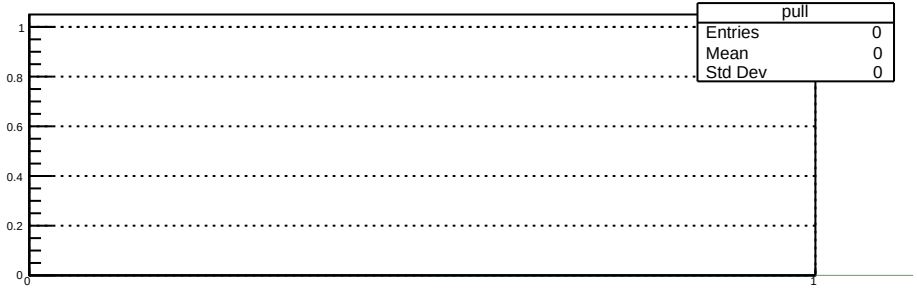

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

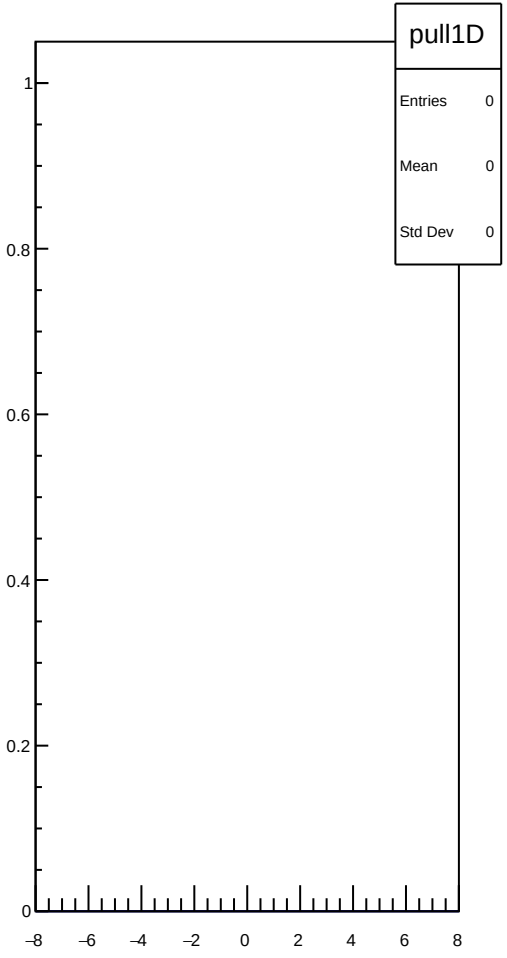

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

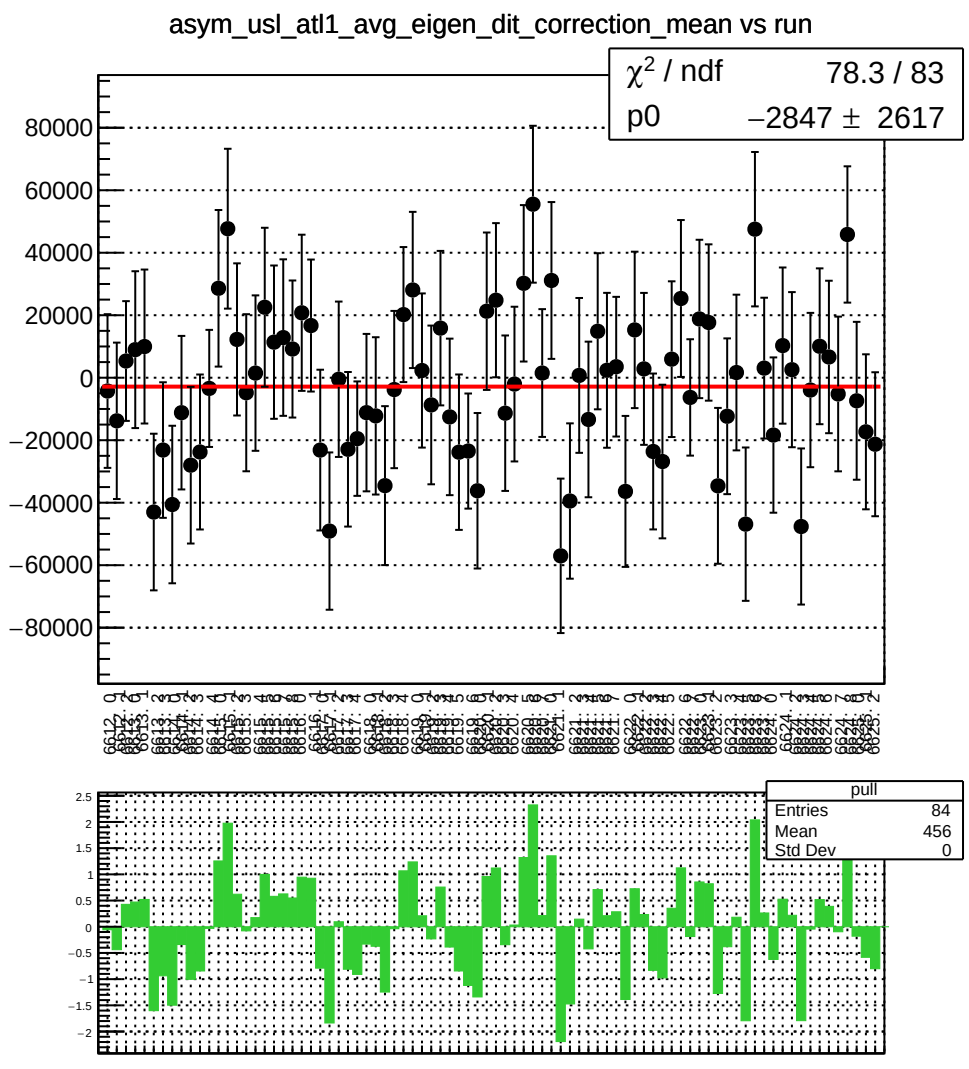

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 78.3 / 83
p0 −2847 ± 2617
pull
Entries 84
Mean 456
Std Dev 0

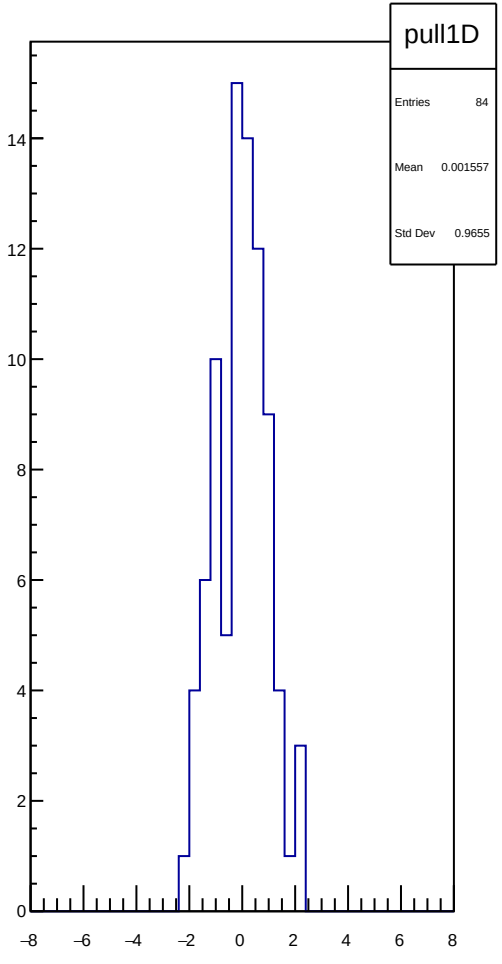

pull1D
Entries 84
Mean 0.001557
Std Dev 0.9655

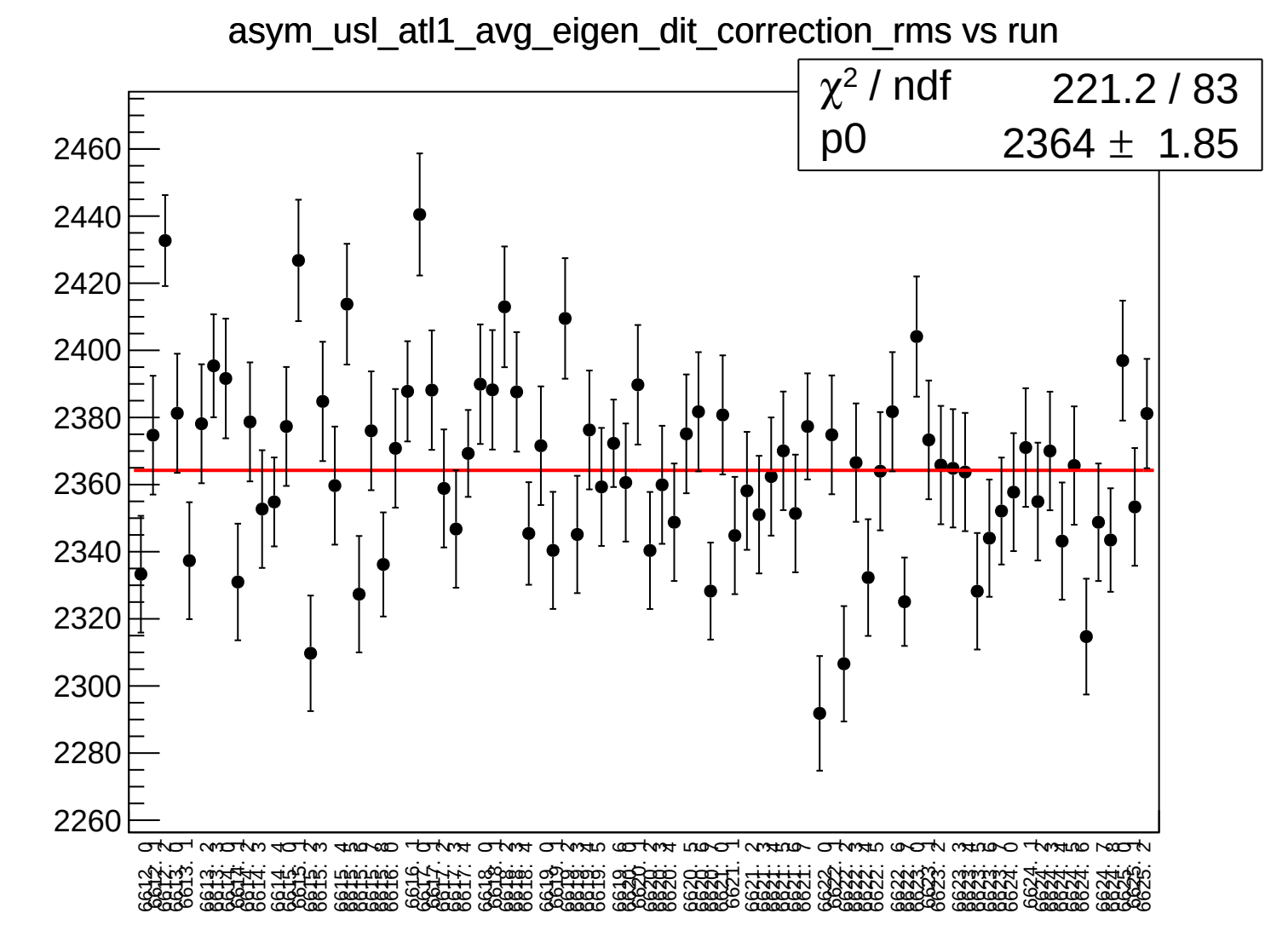

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 221.2 / 83
p0 2364 ± 1.85
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260

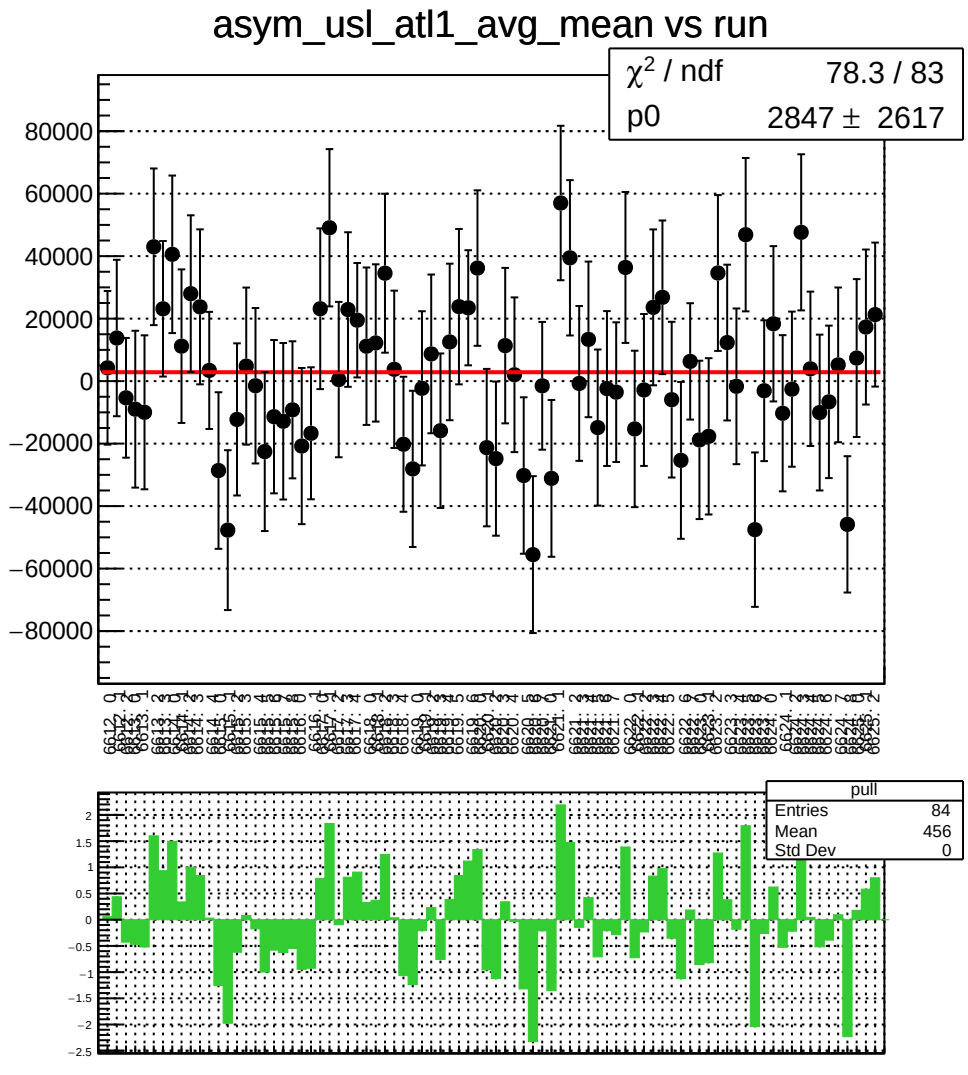

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

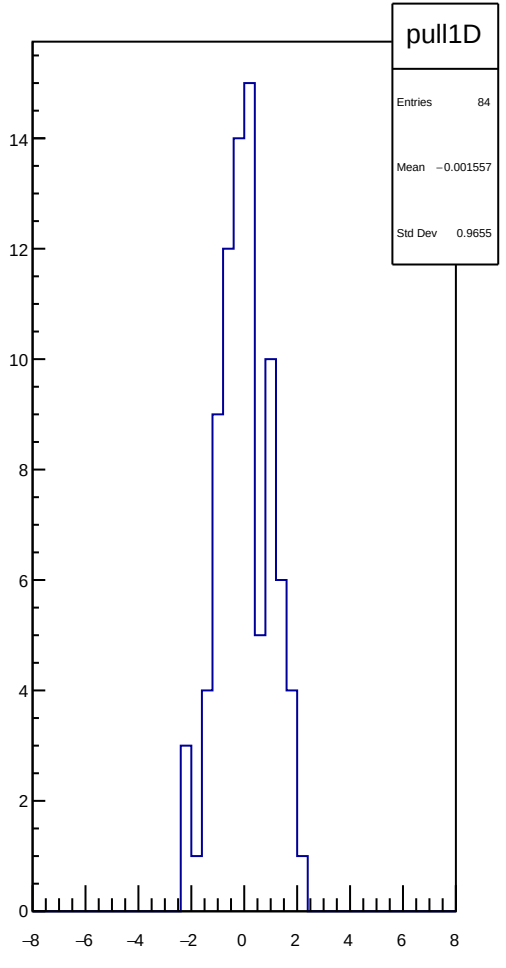

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

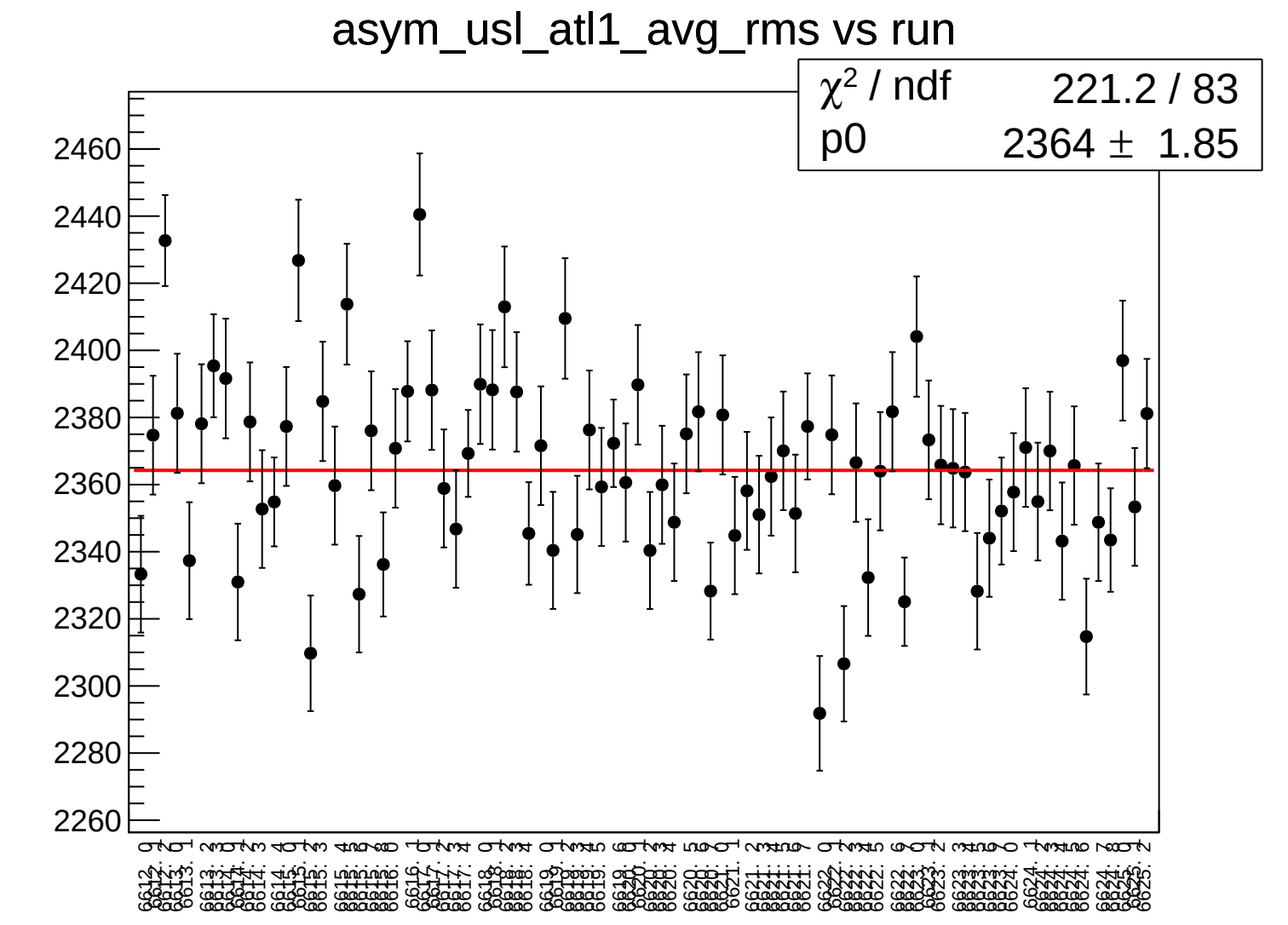

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 78.3 / 83
p0 −2847 ± 2617
pull
Entries 84
Mean 456
Std Dev 0

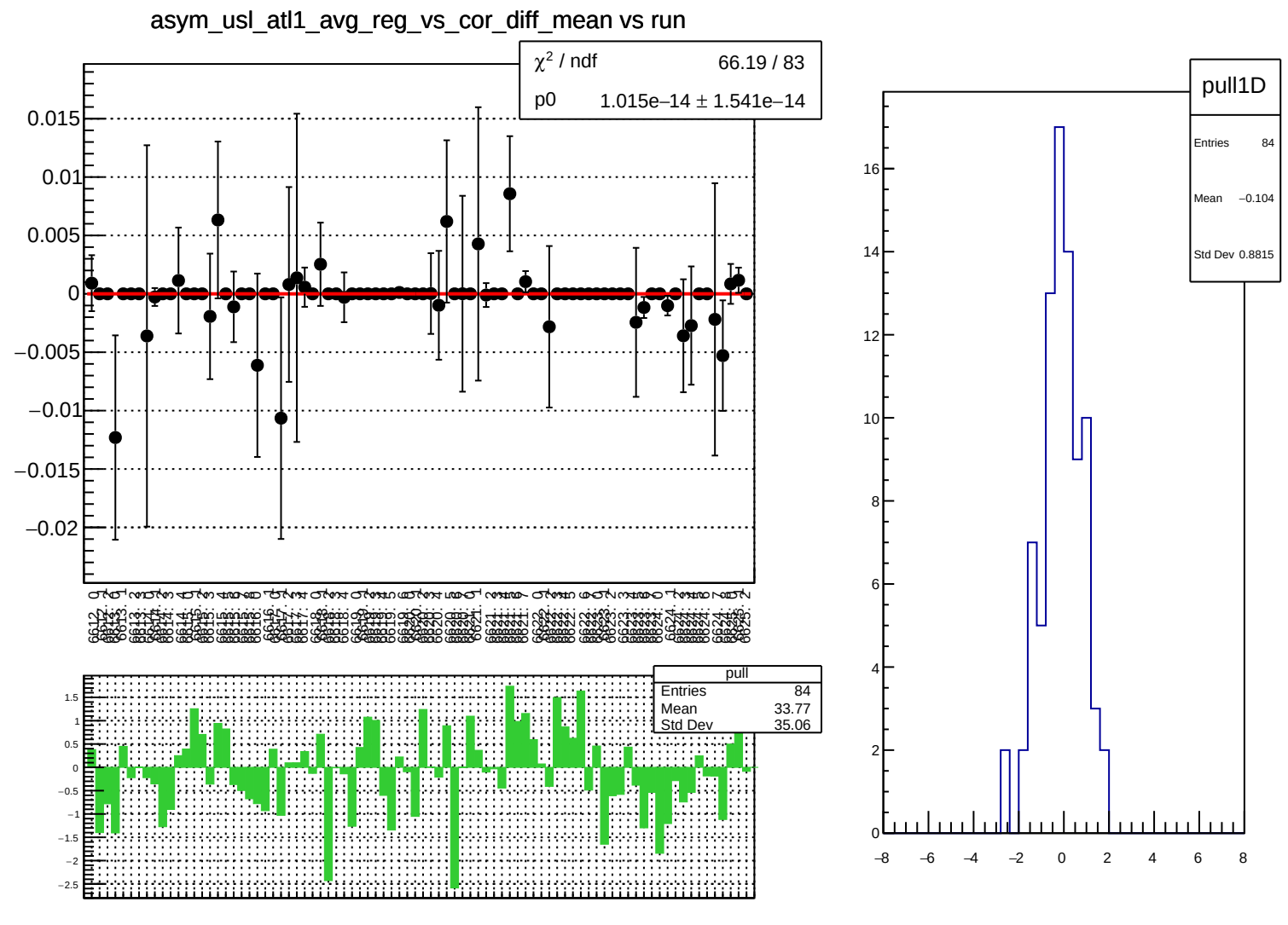

pull1D
Entries 84
Mean 0.001557
Std Dev 0.9655

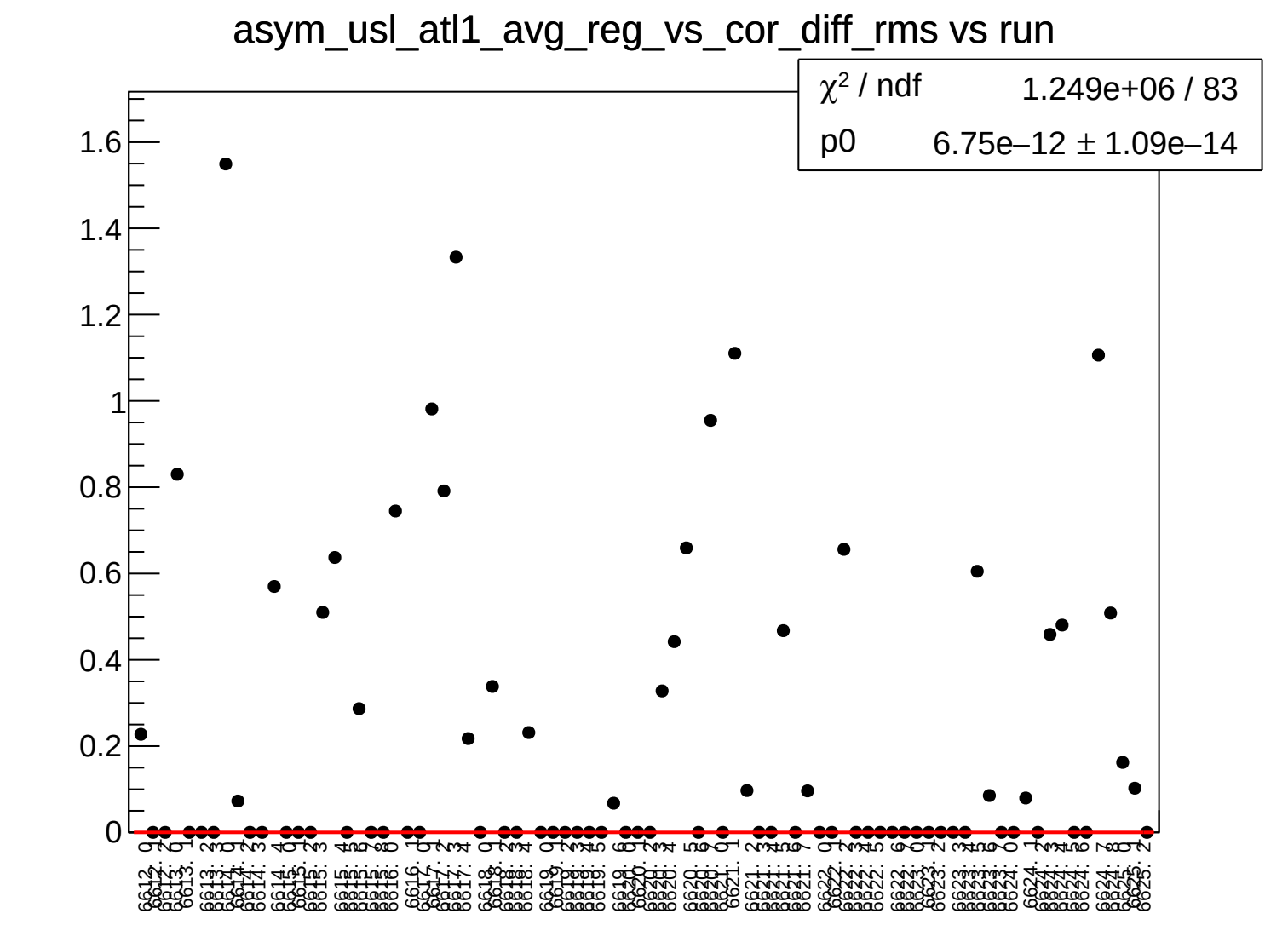

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 221.2 / 83
p0 2364 ± 1.85
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260

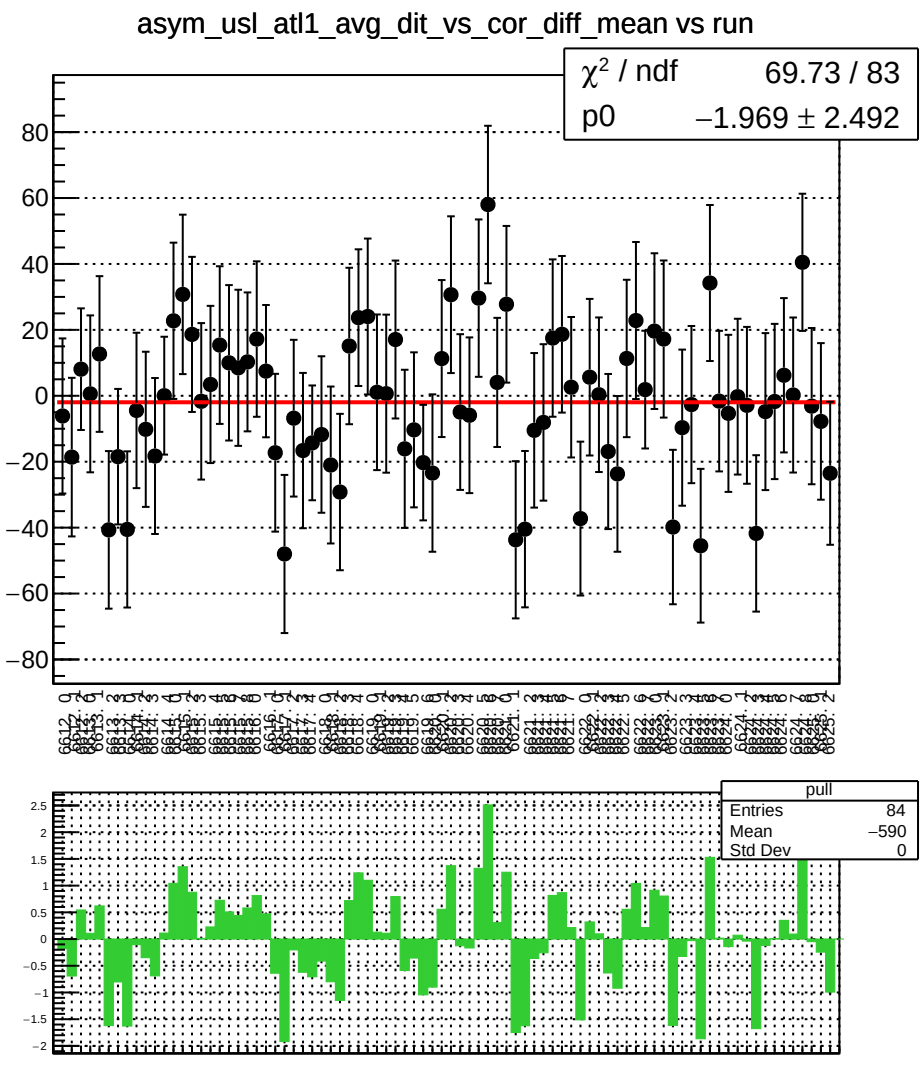

asym_usl_atl1_avg_mean vs run
χ² / ndf 78.3 / 83
p0 2847 ± 2617
pull
Entries 84
Mean 456
Std Dev 0

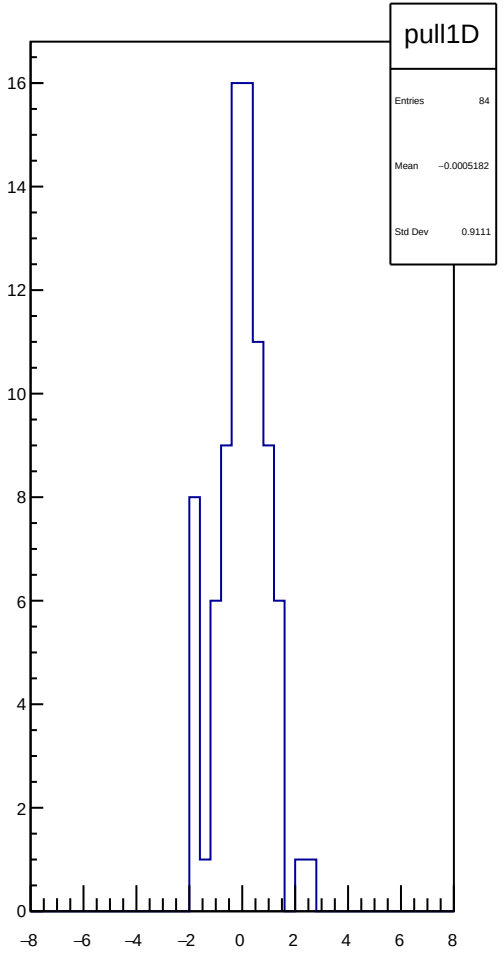

pull1D
Entries 84
Mean −0.001557
Std Dev 0.9655

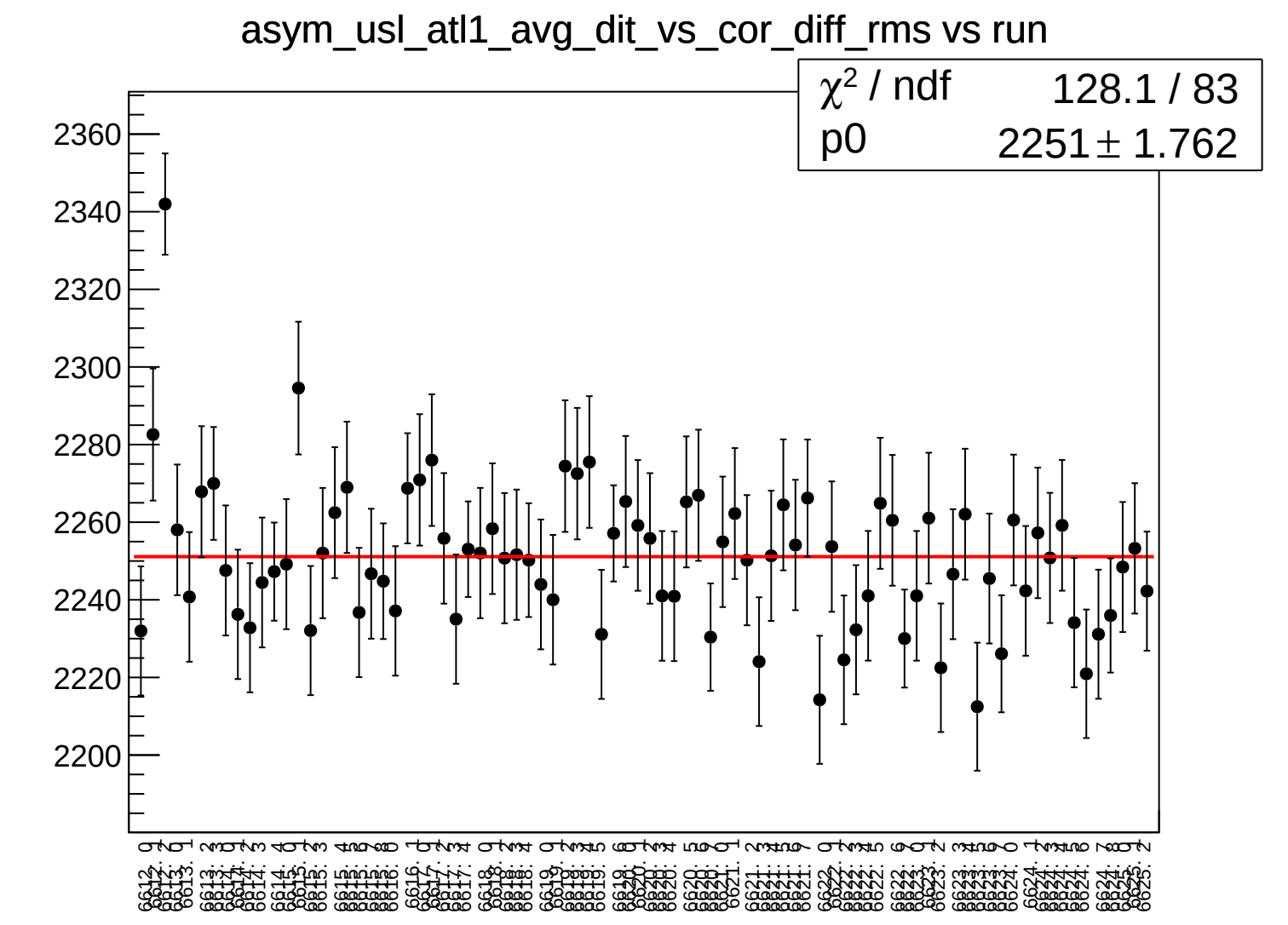

asym_usl_atl1_avg_rms vs run
χ² / ndf 221.2 / 83
p0 2364 ± 1.85
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260

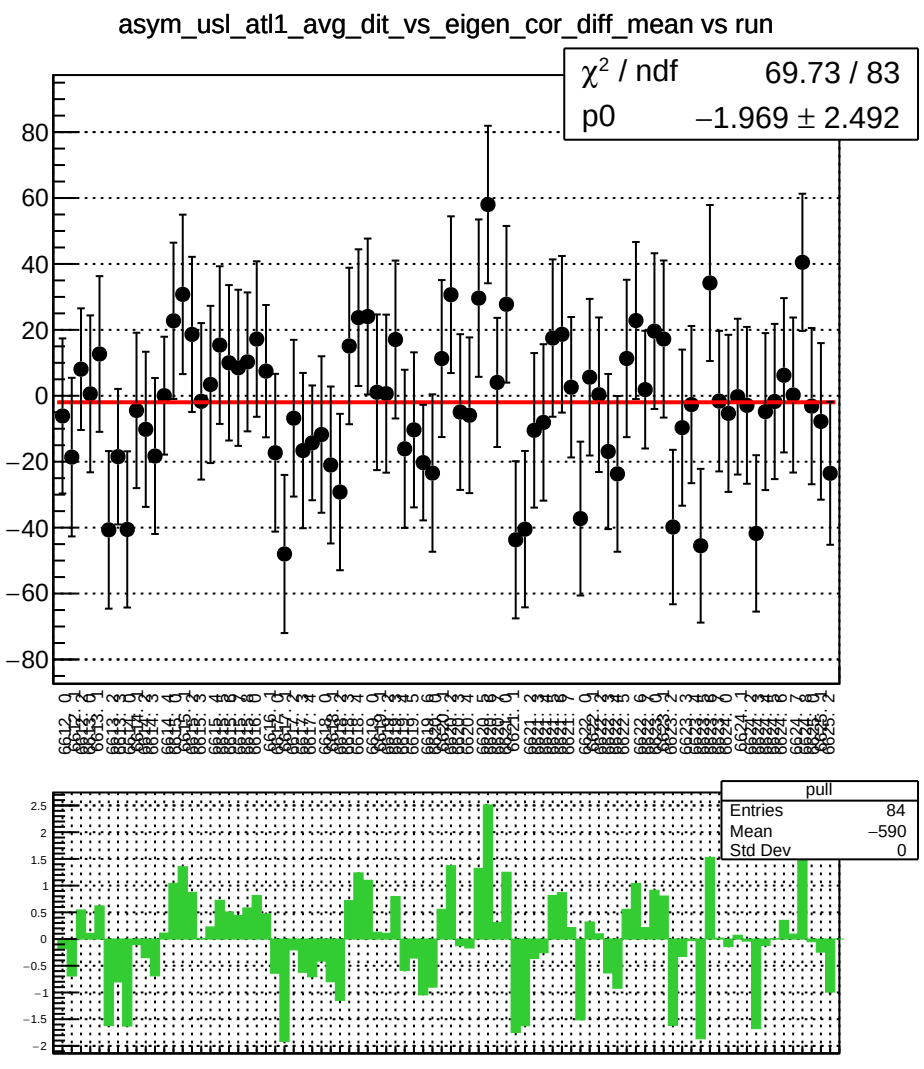

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 66.19 / 83
p0 1.015e−14 ± 1.541e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 84
Mean 33.77
Std Dev 35.06
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 84
Mean −0.104
Std Dev 0.8815
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

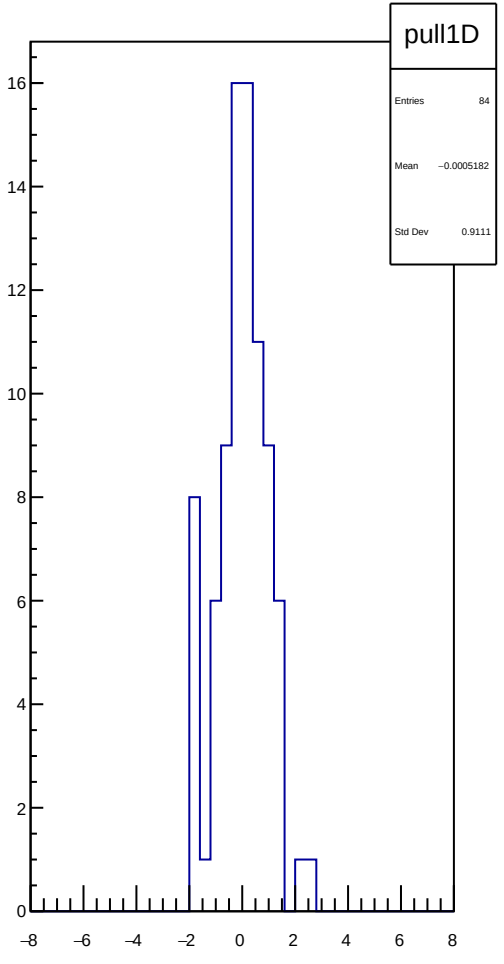

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.249e+06 / 83
p0 6.75e−12 ± 1.09e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

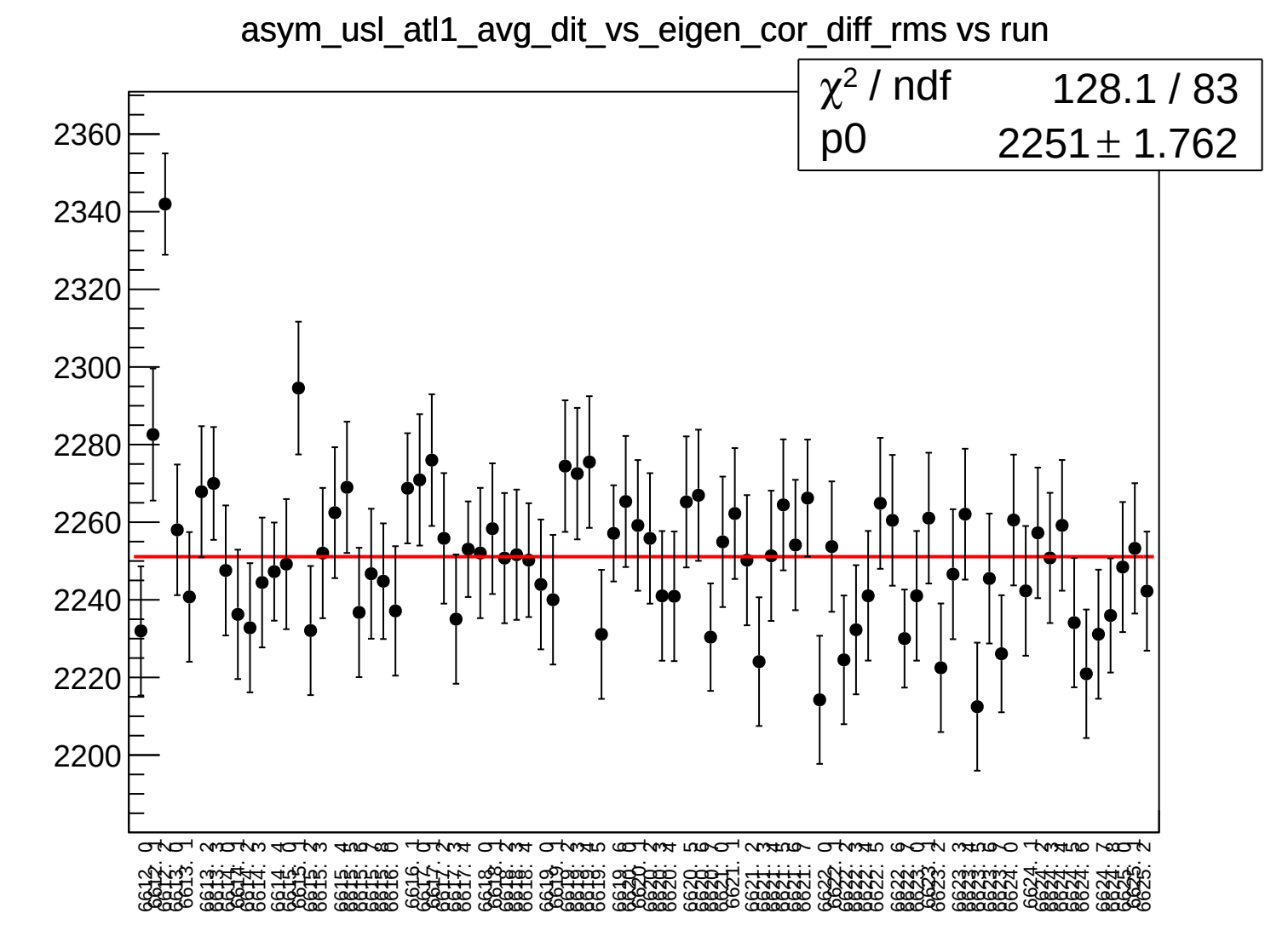

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.73 / 83
p0 −1.969 ± 2.492
pull
Entries 84
Mean −590
Std Dev 0

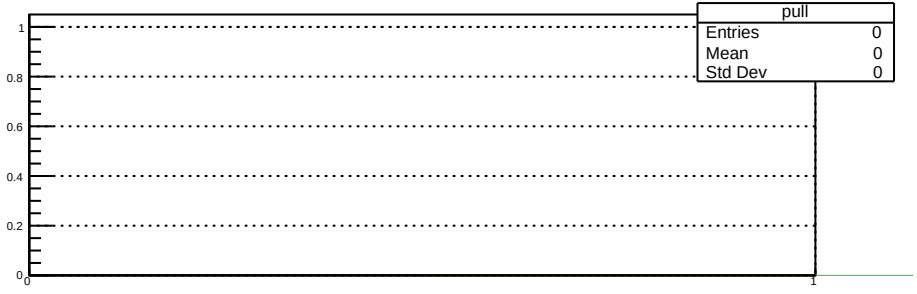

pull1D
Entries 84
Mean −0.0005182
Std Dev 0.9111

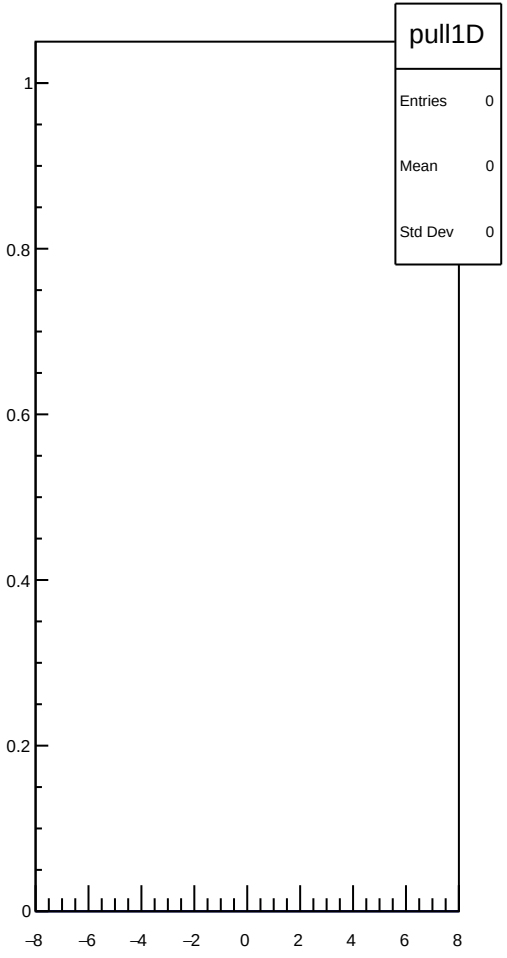

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 128.1 / 83
p0 2251 ± 1.762
2360
2340
2320
2300
2280
2260
2240
2220
2200

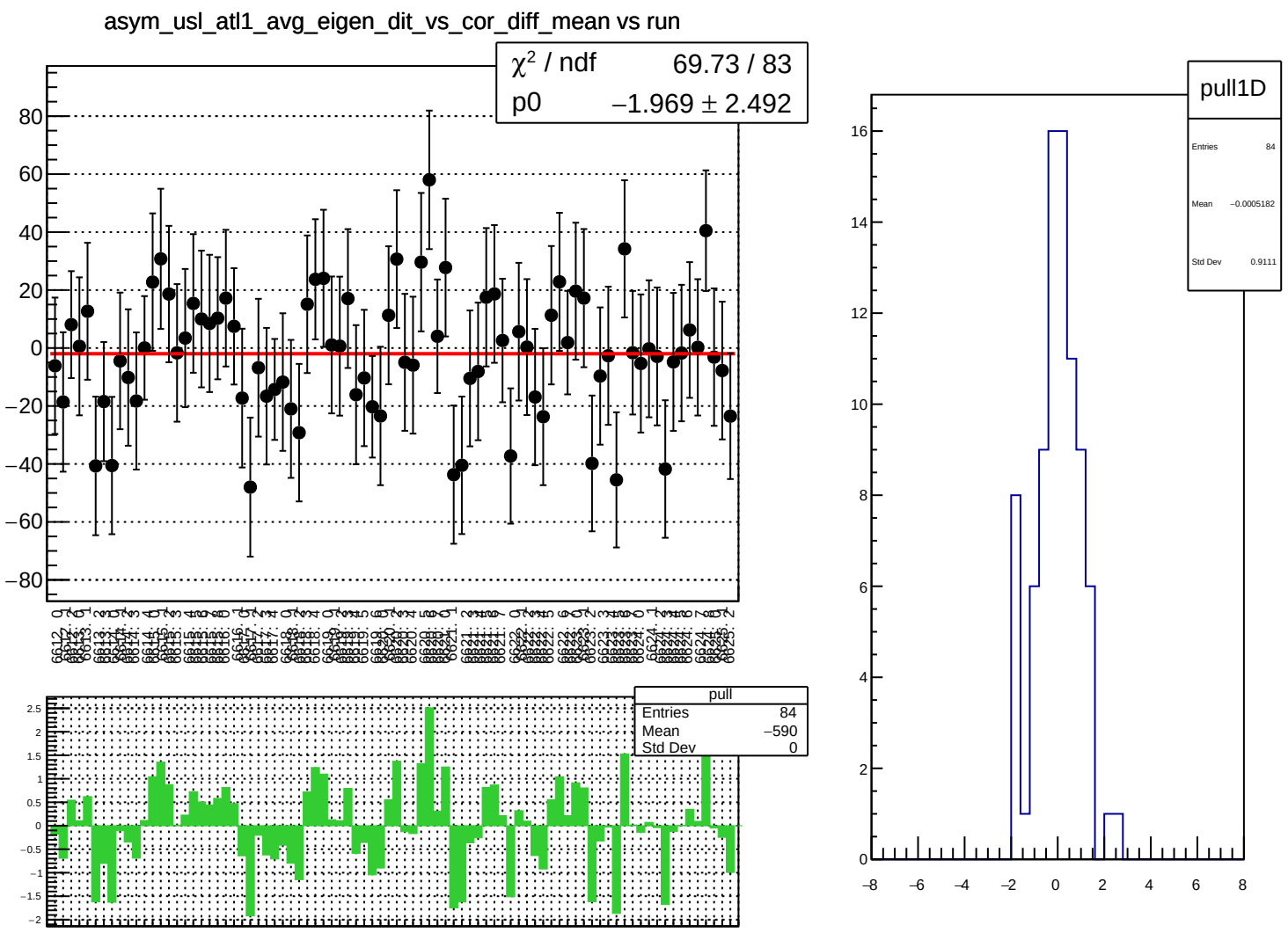

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.73 / 83
p0 −1.969 ± 2.492
pull
Entries 84
Mean −590
Std Dev 0

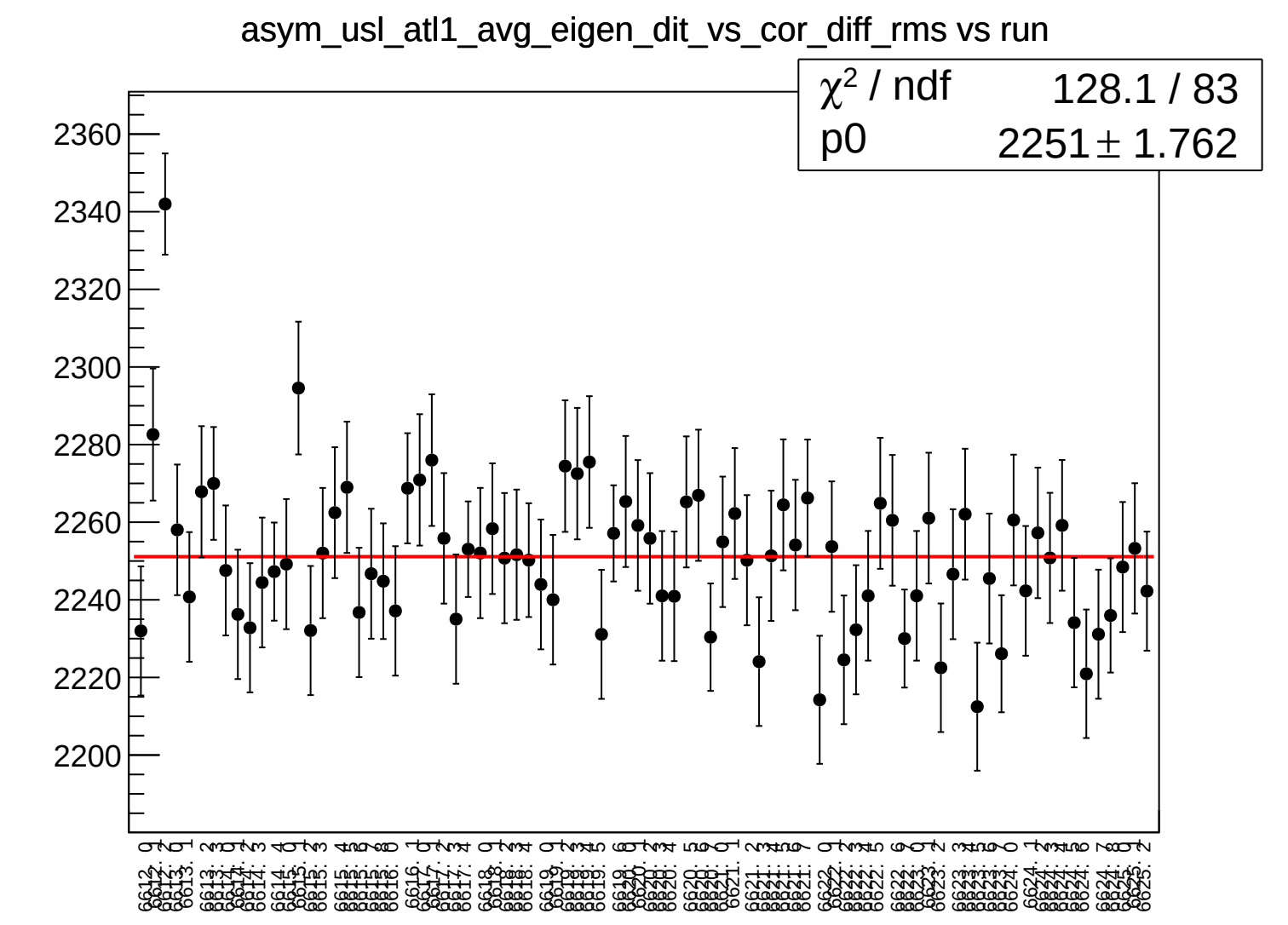

pull1D
Entries 84
Mean −0.0005182
Std Dev 0.9111

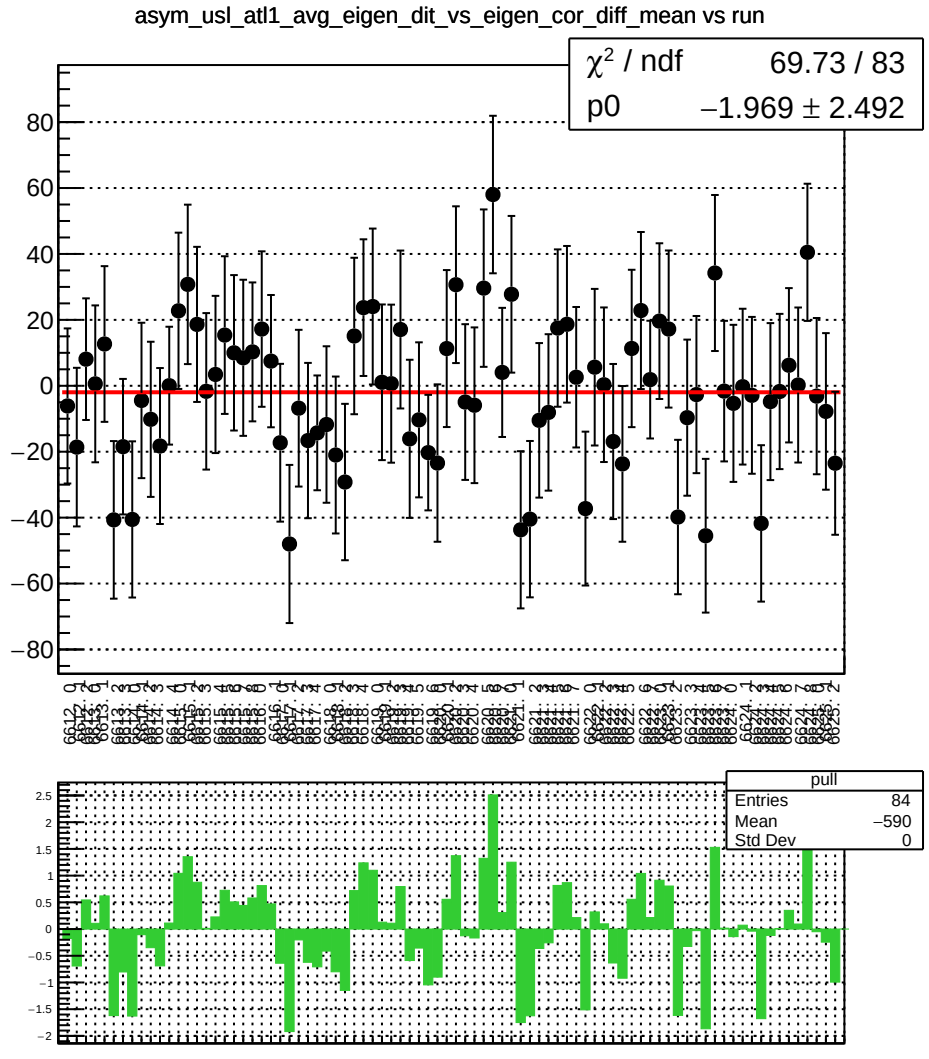

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 128.1 / 83
p0 2251 ± 1.762
2360
2340
2320
2300
2280
2260
2240
2220
2200

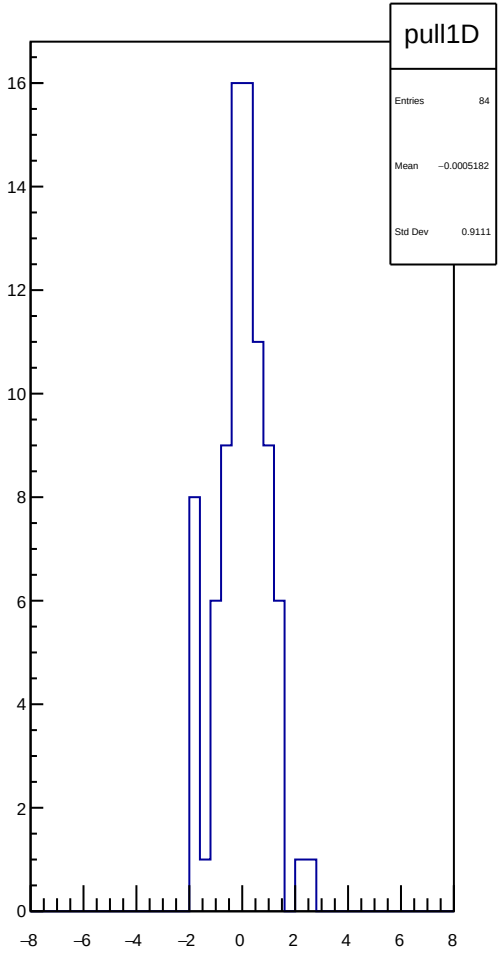

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

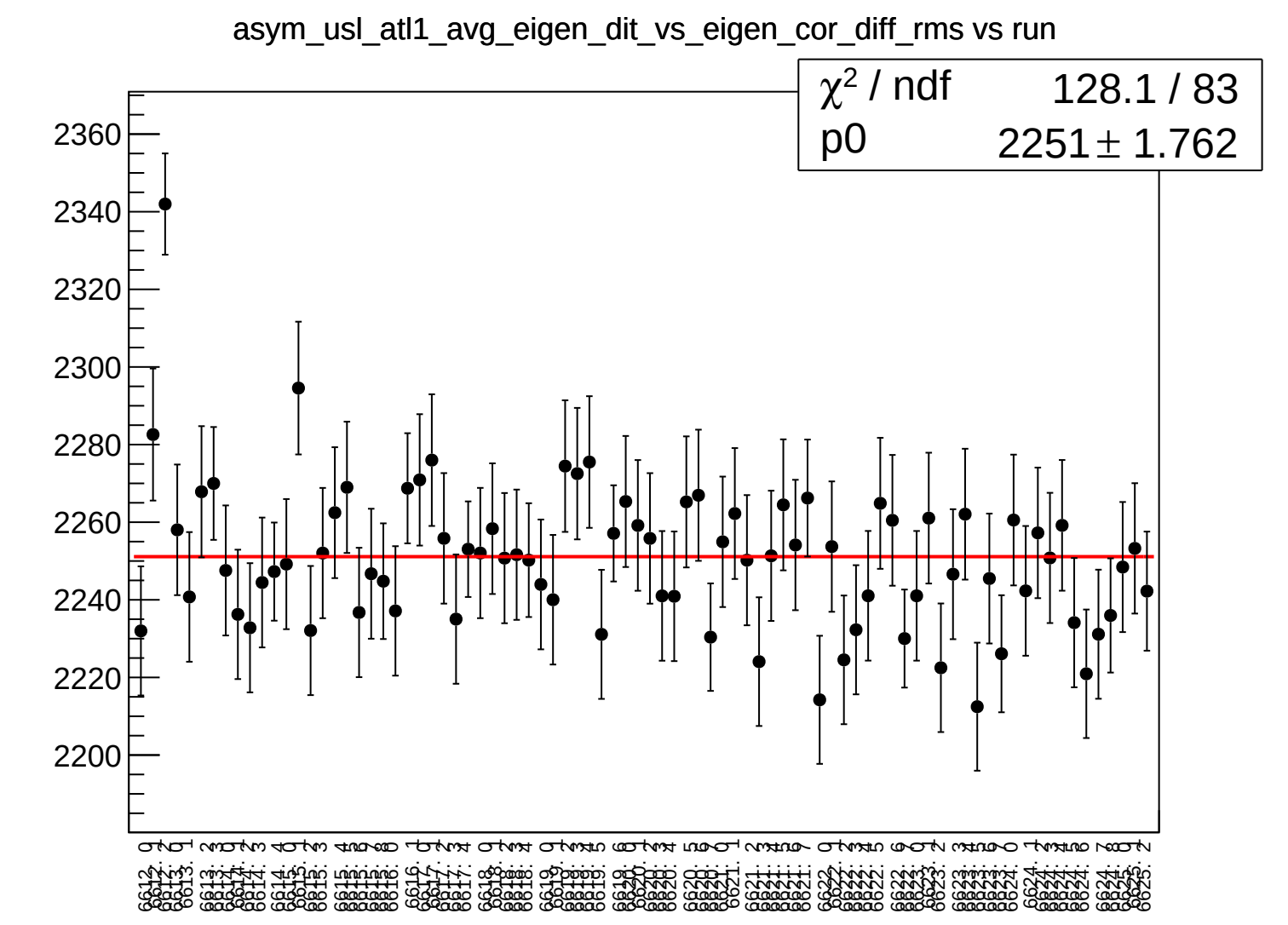

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

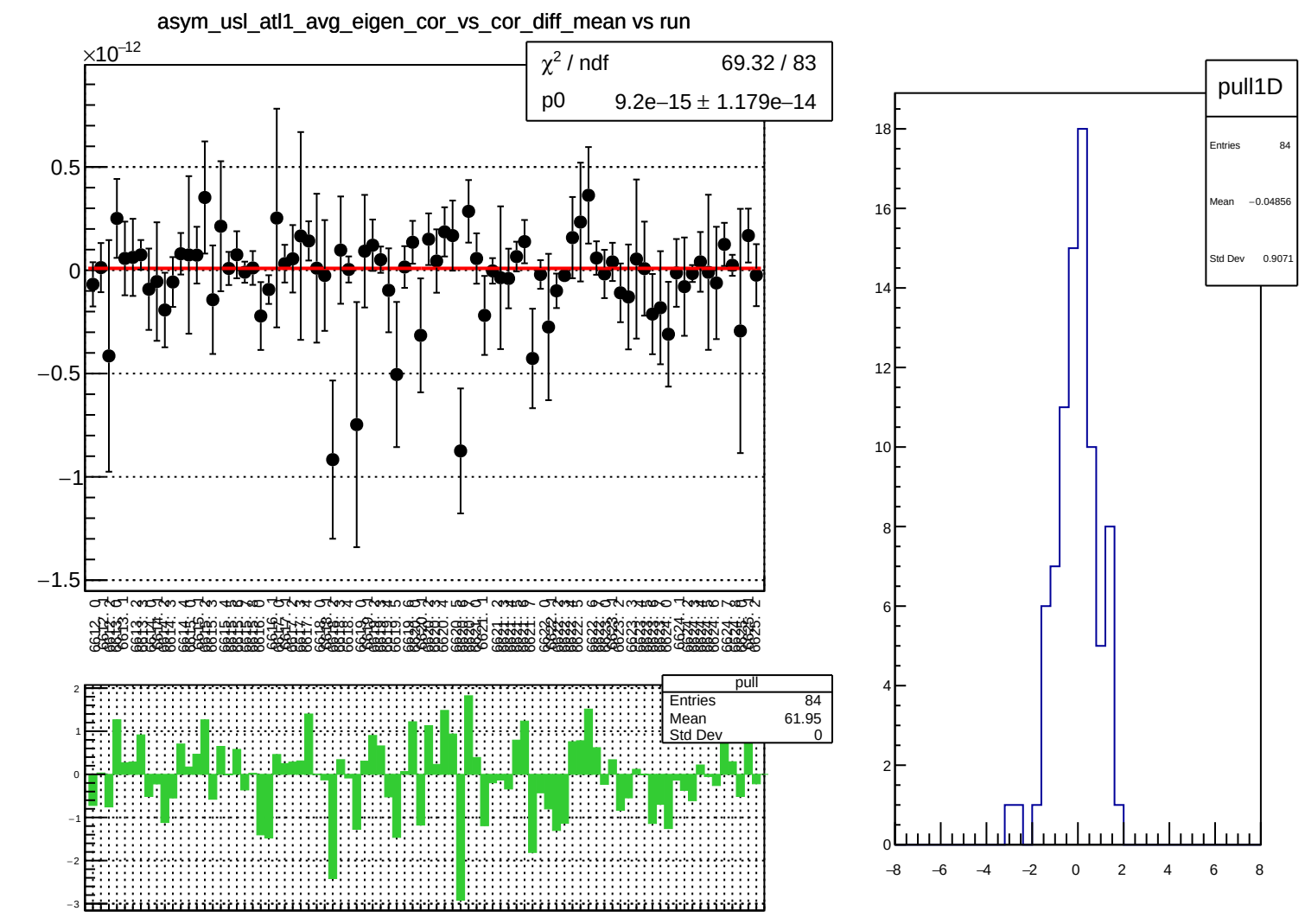

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.73 / 83
p0 −1.969 ± 2.492
pull
Entries 84
Mean −590
Std Dev 0
pull1D
Entries 84
Mean −0.0005182
Std Dev 0.9111

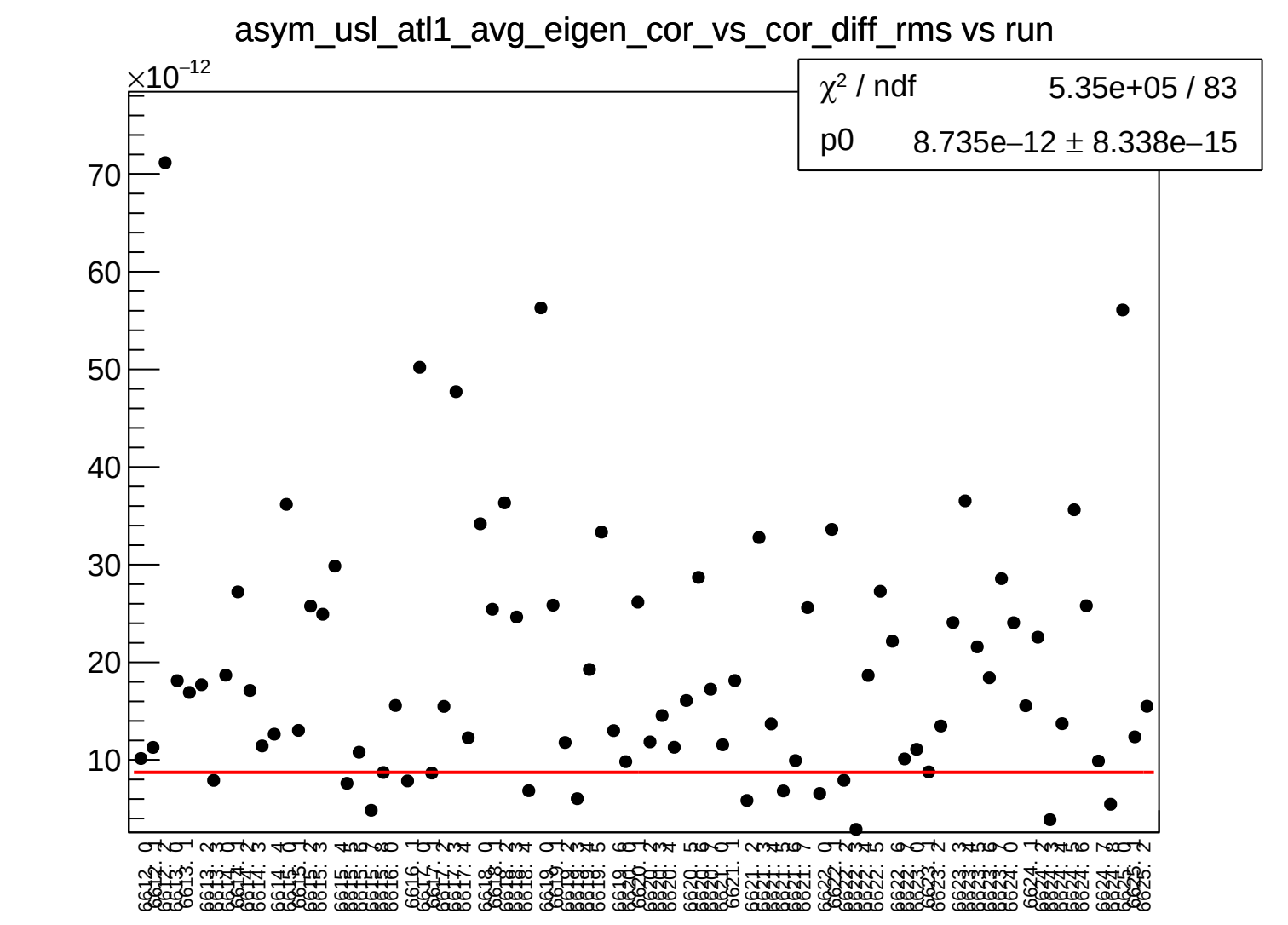

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 128.1 / 83
p0 2251 ± 1.762
2360
2340
2320
2300
2280
2260
2240
2220
2200

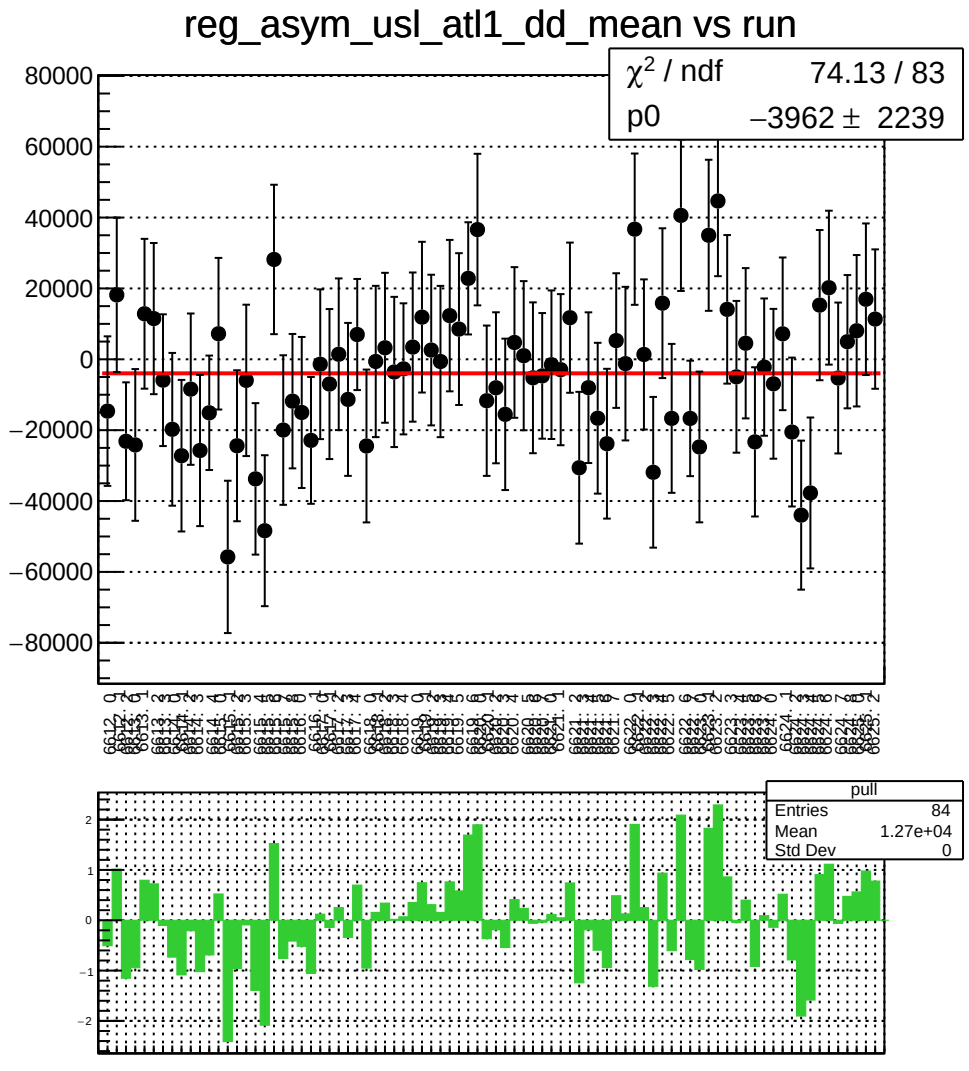

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.73 / 83
p0 −1.969 ± 2.492
pull
Entries 84
Mean −590
Std Dev 0

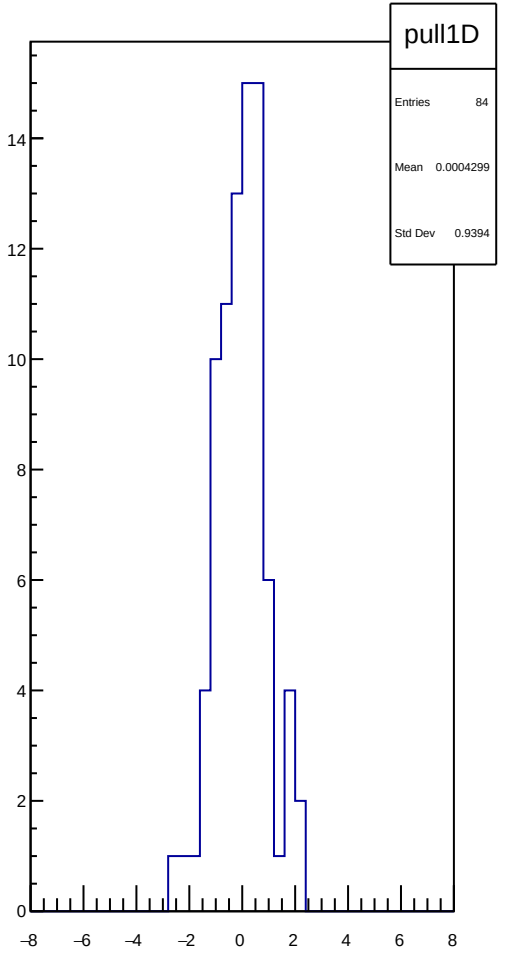

pull1D
Entries 84
Mean −0.0005182
Std Dev 0.9111

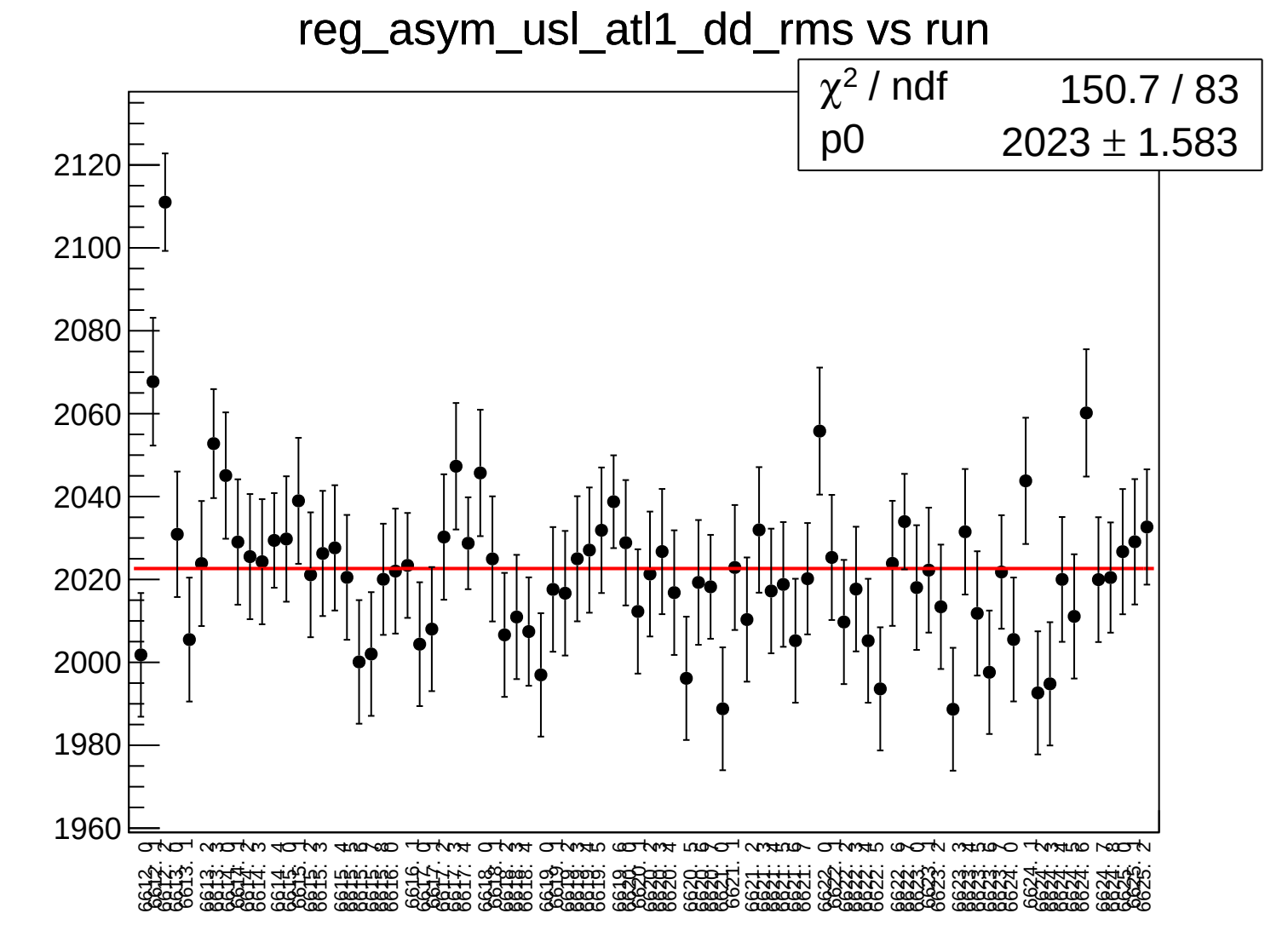

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 128.1 / 83
p0 2251 ± 1.762
2360
2340
2320
2300
2280
2260
2240
2220
2200

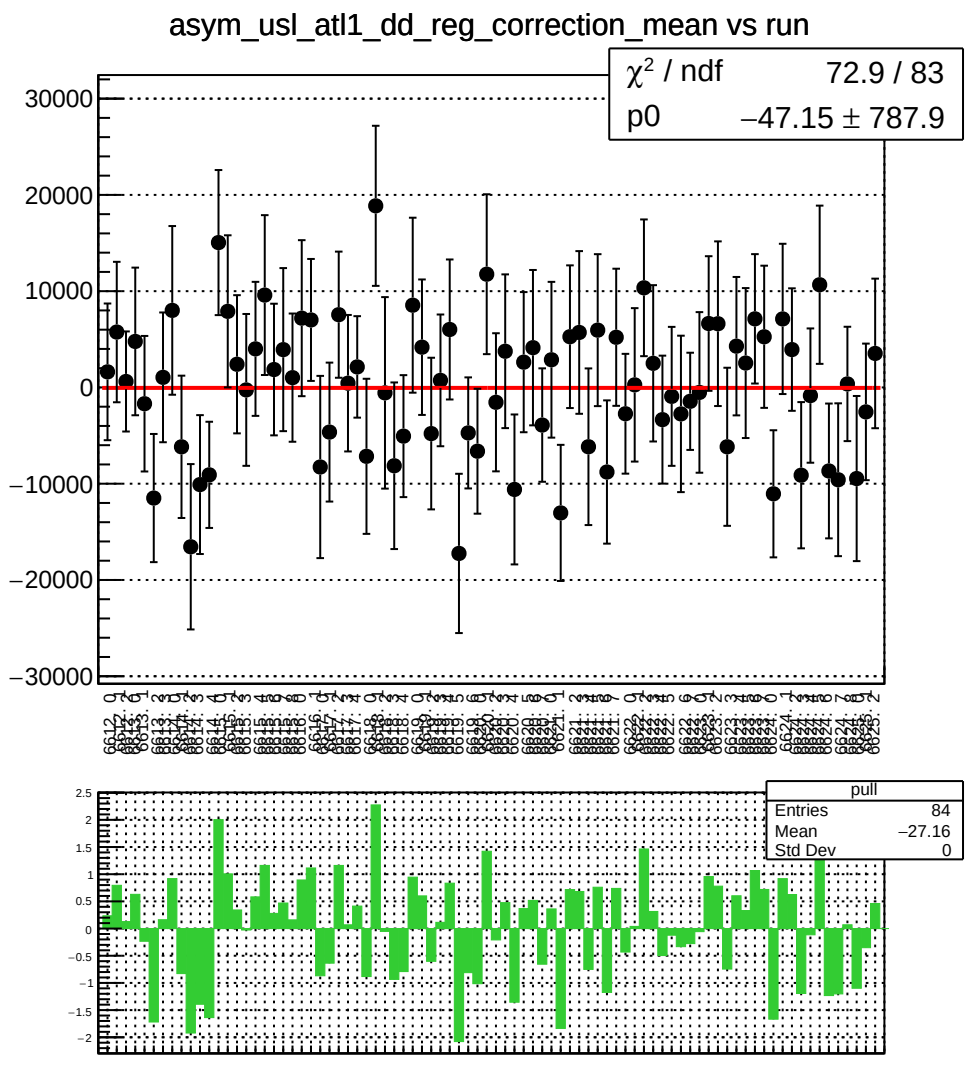

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.32 / 83
p0 9.2e−15 ± 1.179e−14
0.5
0
−0.5
−1
−1.5
pull
Entries 84
Mean 61.95
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.04856
Std Dev 0.9071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

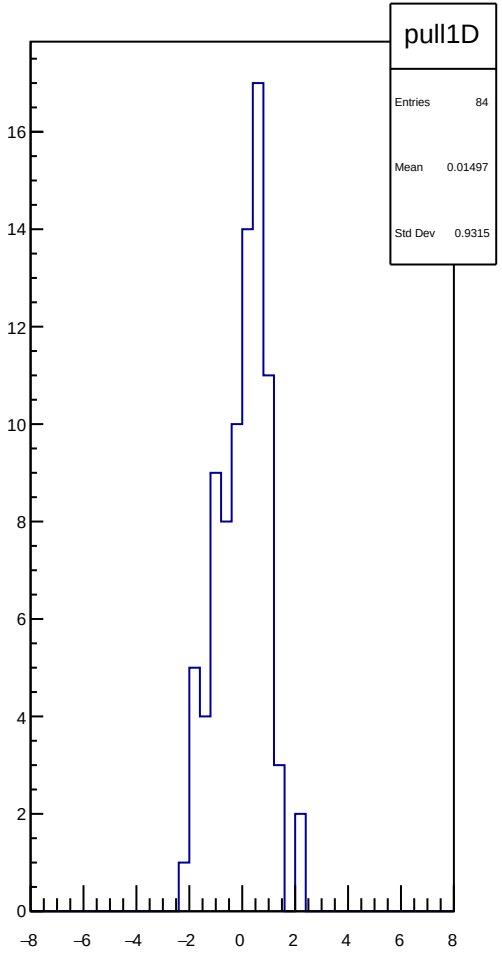

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.35e+05 / 83
p0 8.735e−12 ± 8.338e−15
70
60
50
40
30
20
10

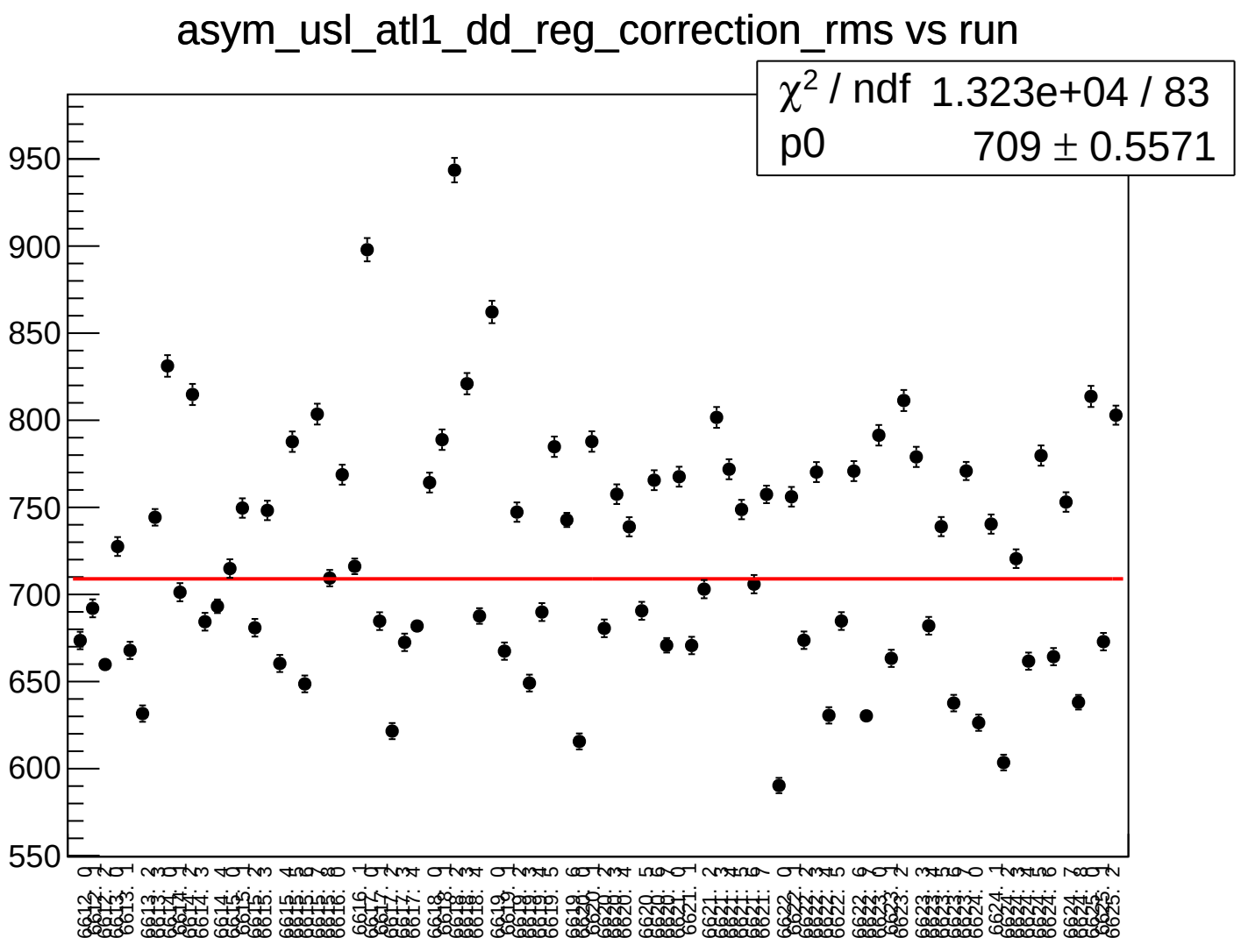

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 74.13 / 83
p0 −3962 ± 2239
pull
Entries 84
Mean 1.27e+04
Std Dev 0

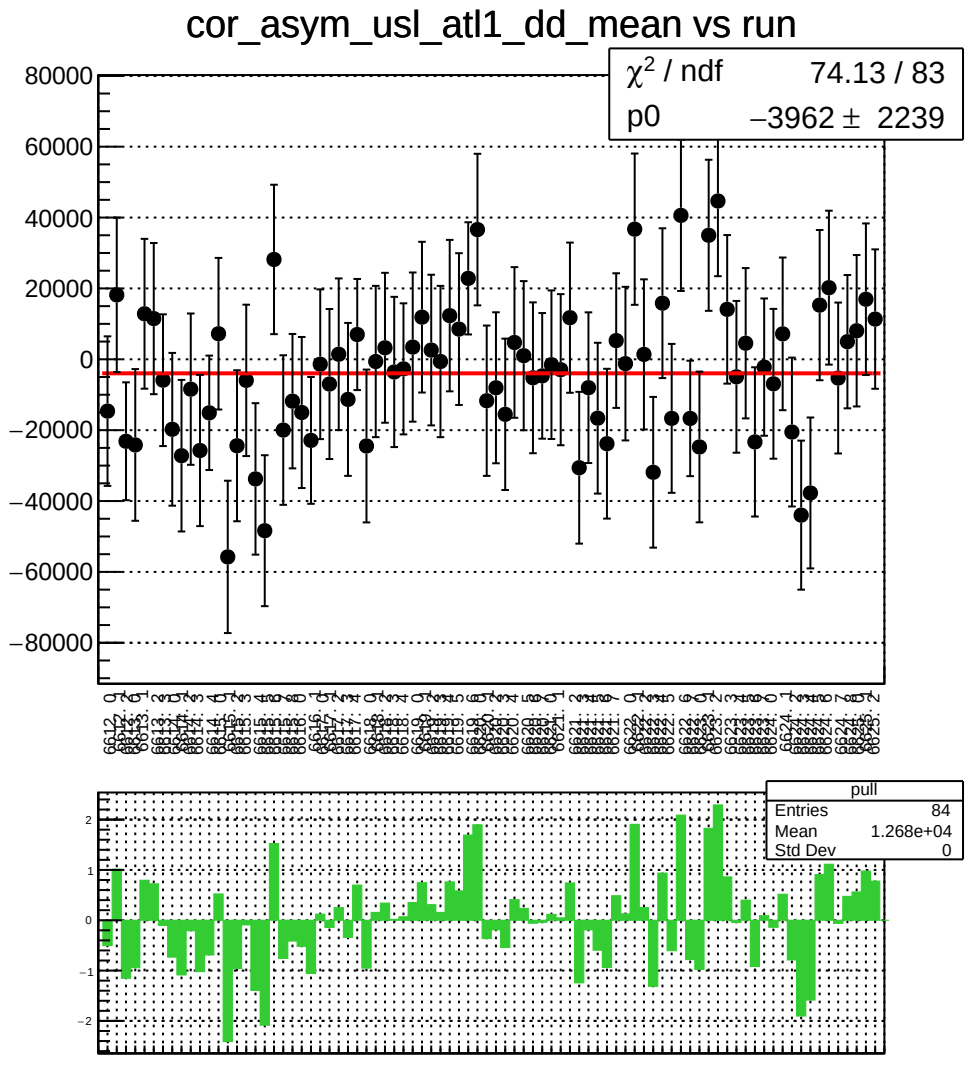

pull1D
Entries 84
Mean 0.0004299
Std Dev 0.9394

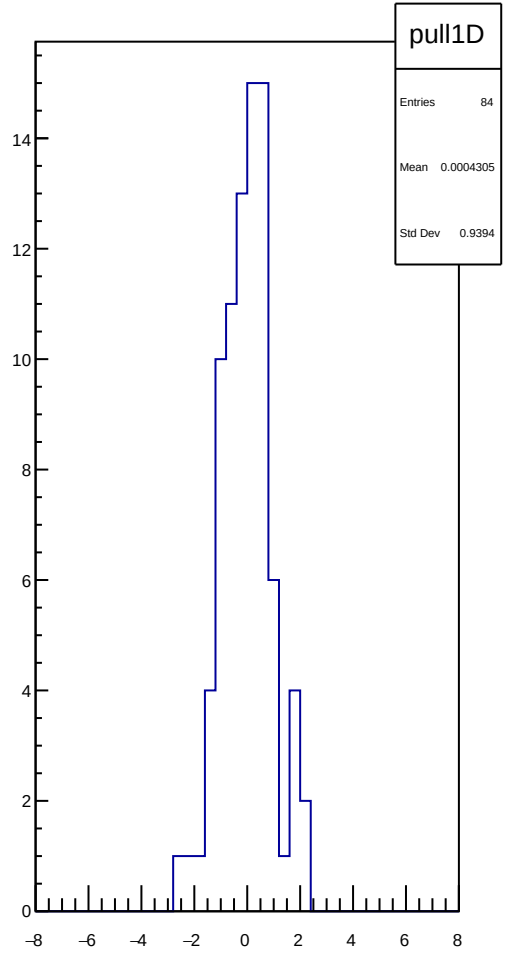

reg_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 150.7 / 83
p0 2023 ± 1.583
2120
2100
2080
2060
2040
2020
2000
1980
1960

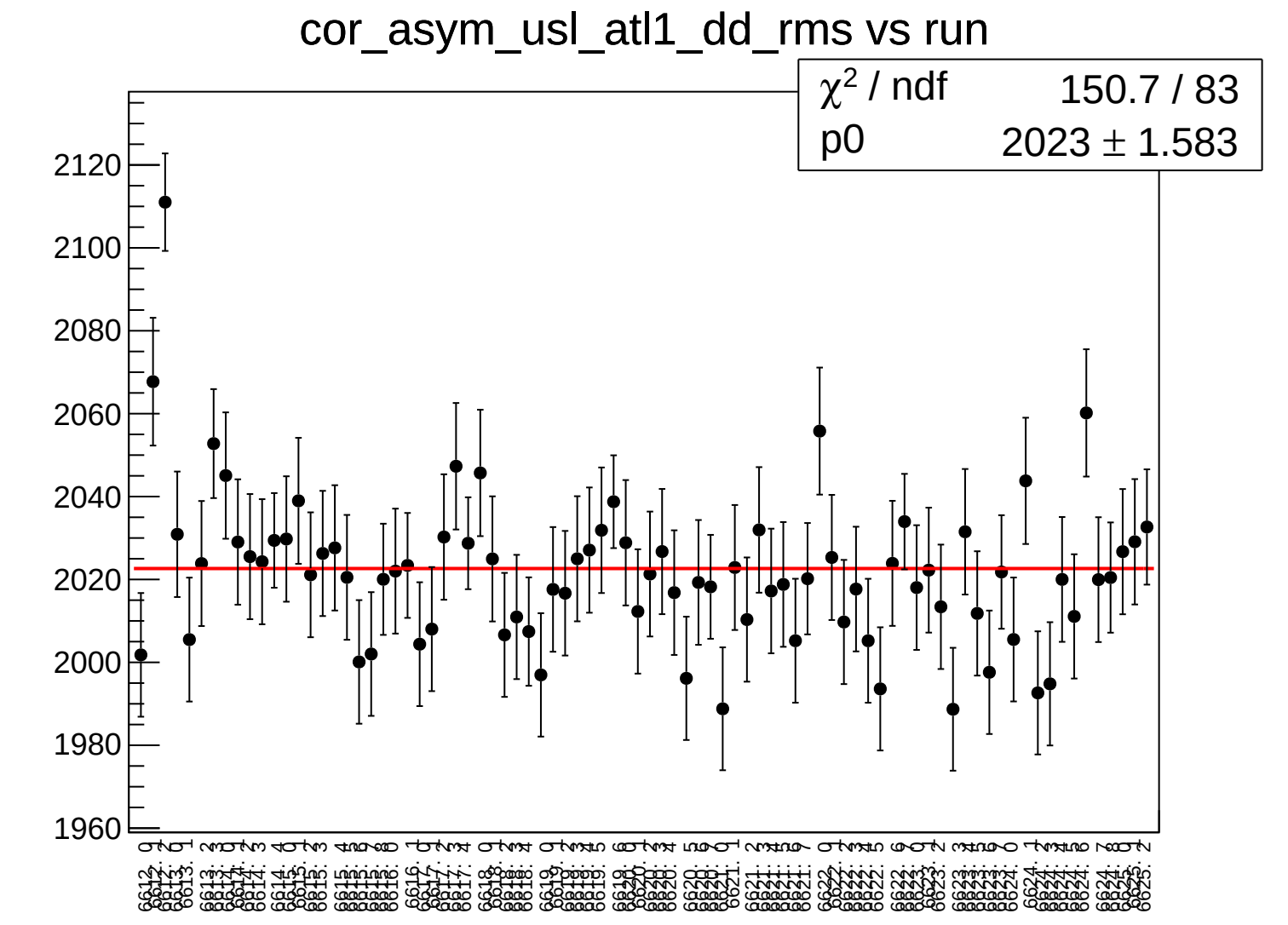

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 72.9 / 83
p0 −47.15 ± 787.9
pull
Entries 84
Mean −27.16
Std Dev 0

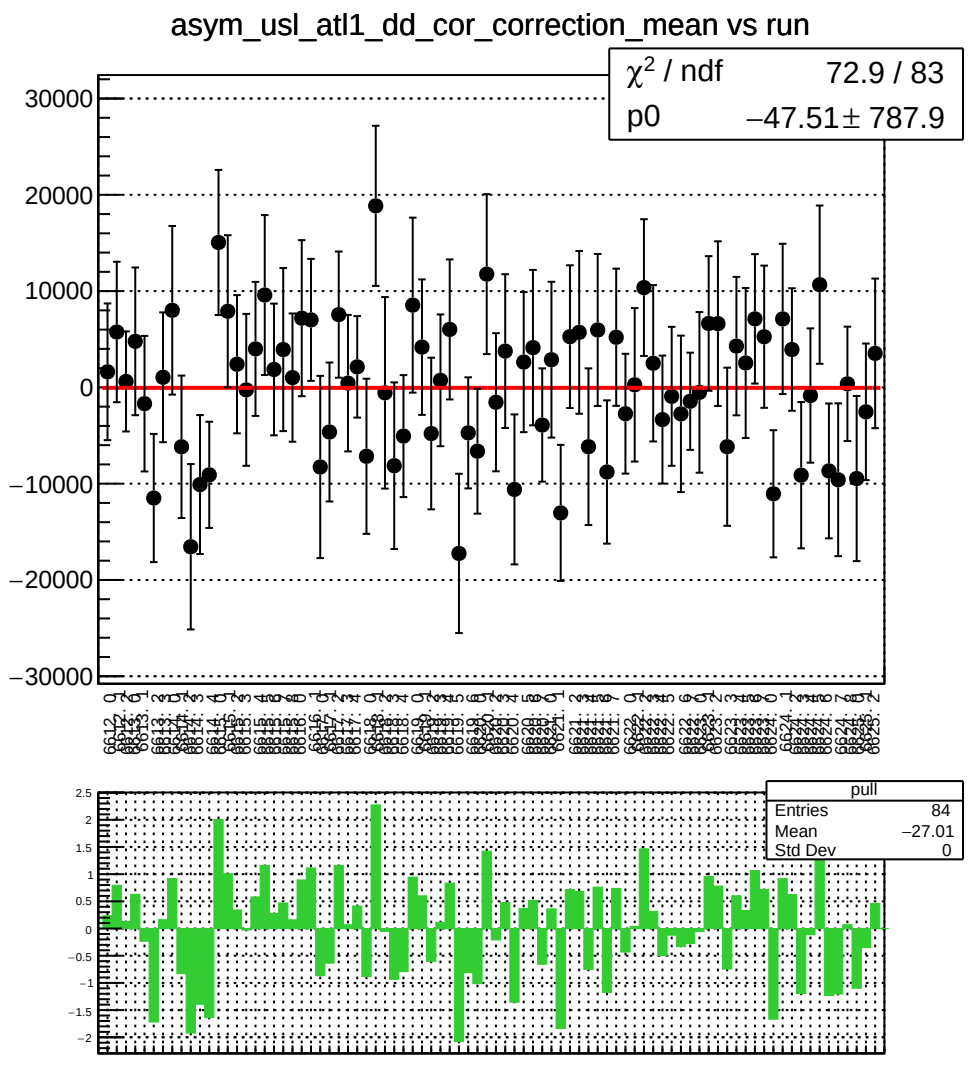

pull1D
Entries 84
Mean 0.01497
Std Dev 0.9315

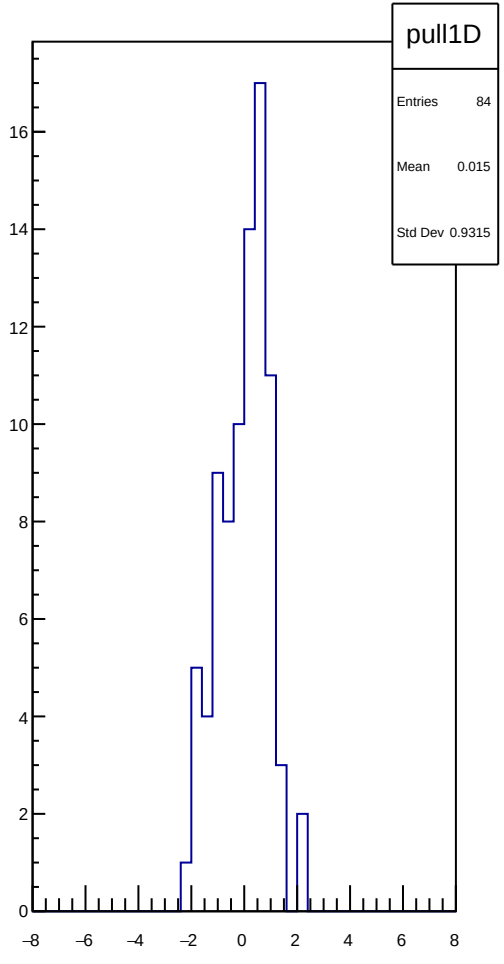

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1.323e+04 / 83
p0 709 ± 0.5571
950
900
850
800
750
700
650
600
550

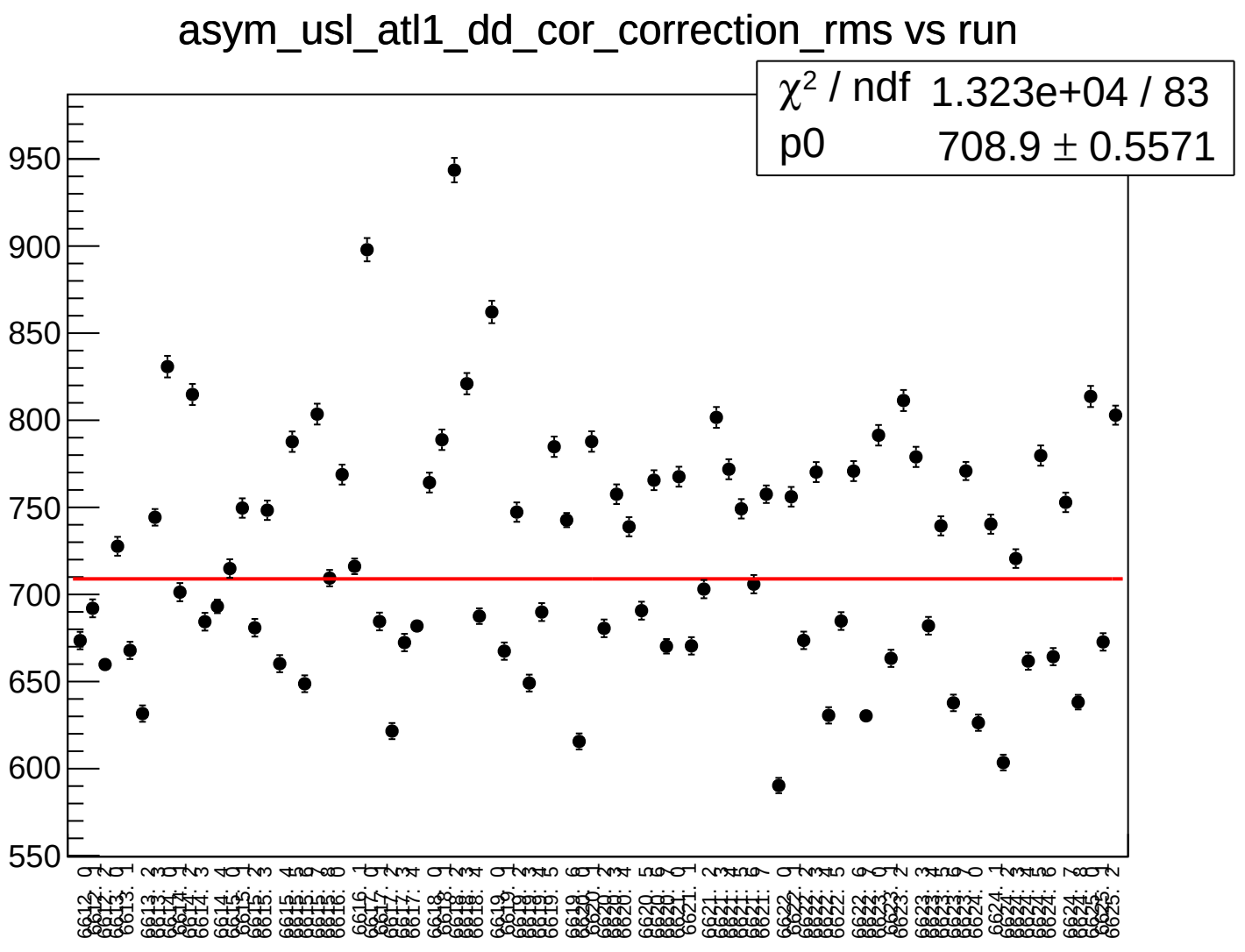

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 74.13 / 83
p0 −3962 ± 2239
pull
Entries 84
Mean 1.268e+04
Std Dev 0

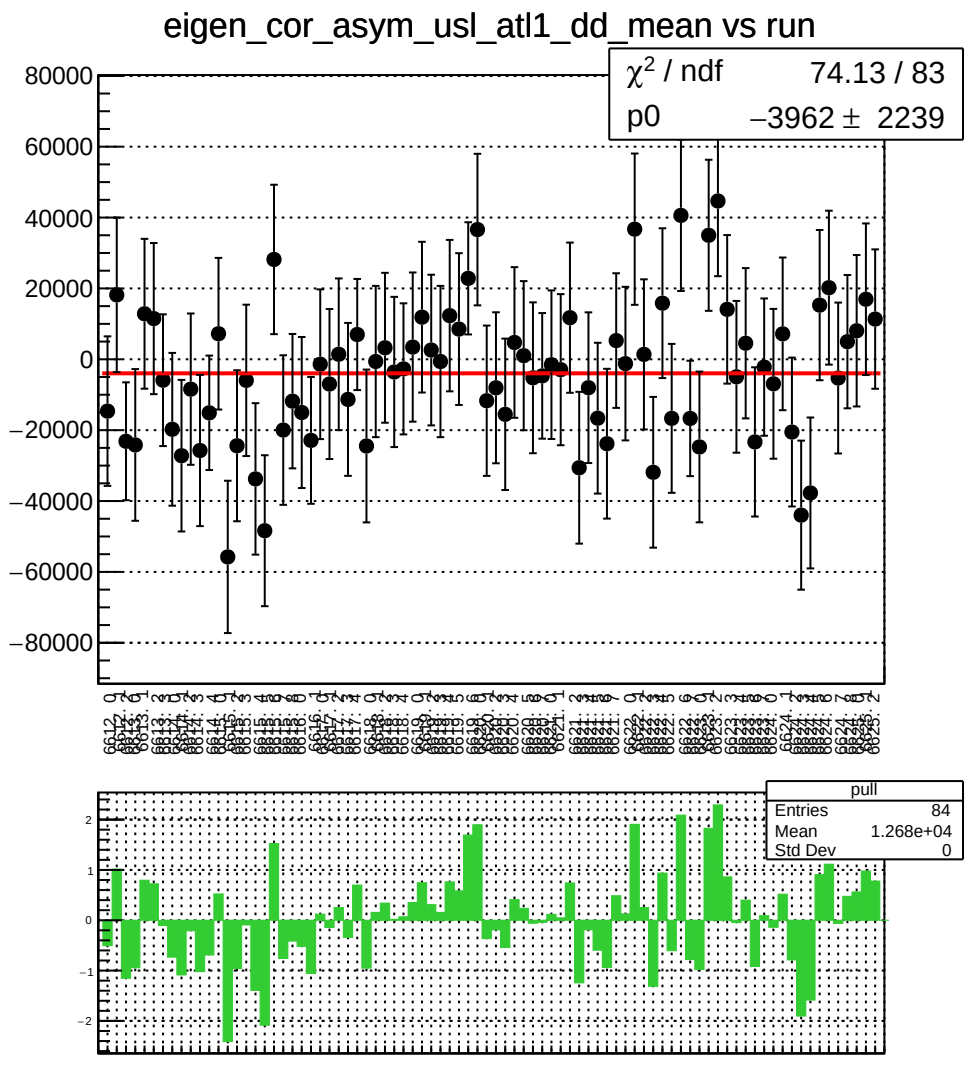

pull1D
Entries 84
Mean 0.0004305
Std Dev 0.9394

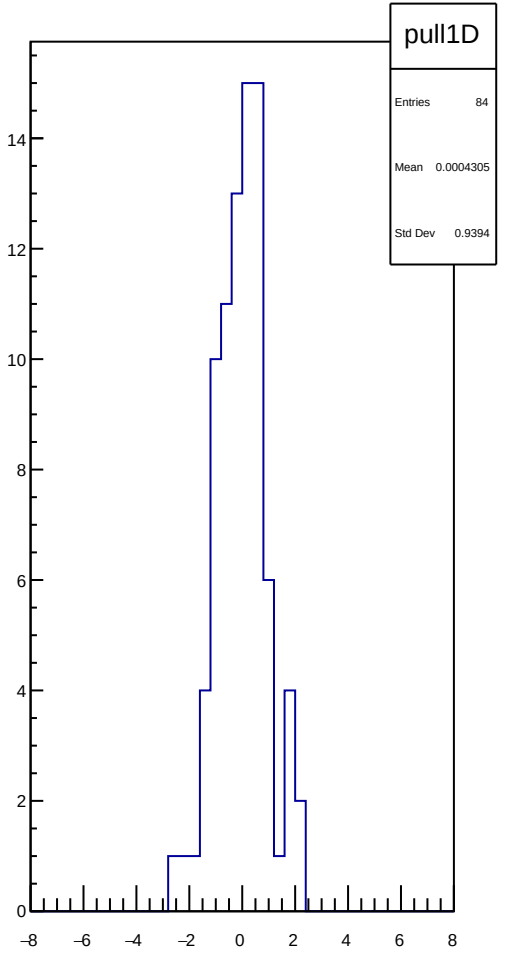

cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 150.7 / 83
p0 2023 ± 1.583
2120
2100
2080
2060
2040
2020
2000
1980
1960

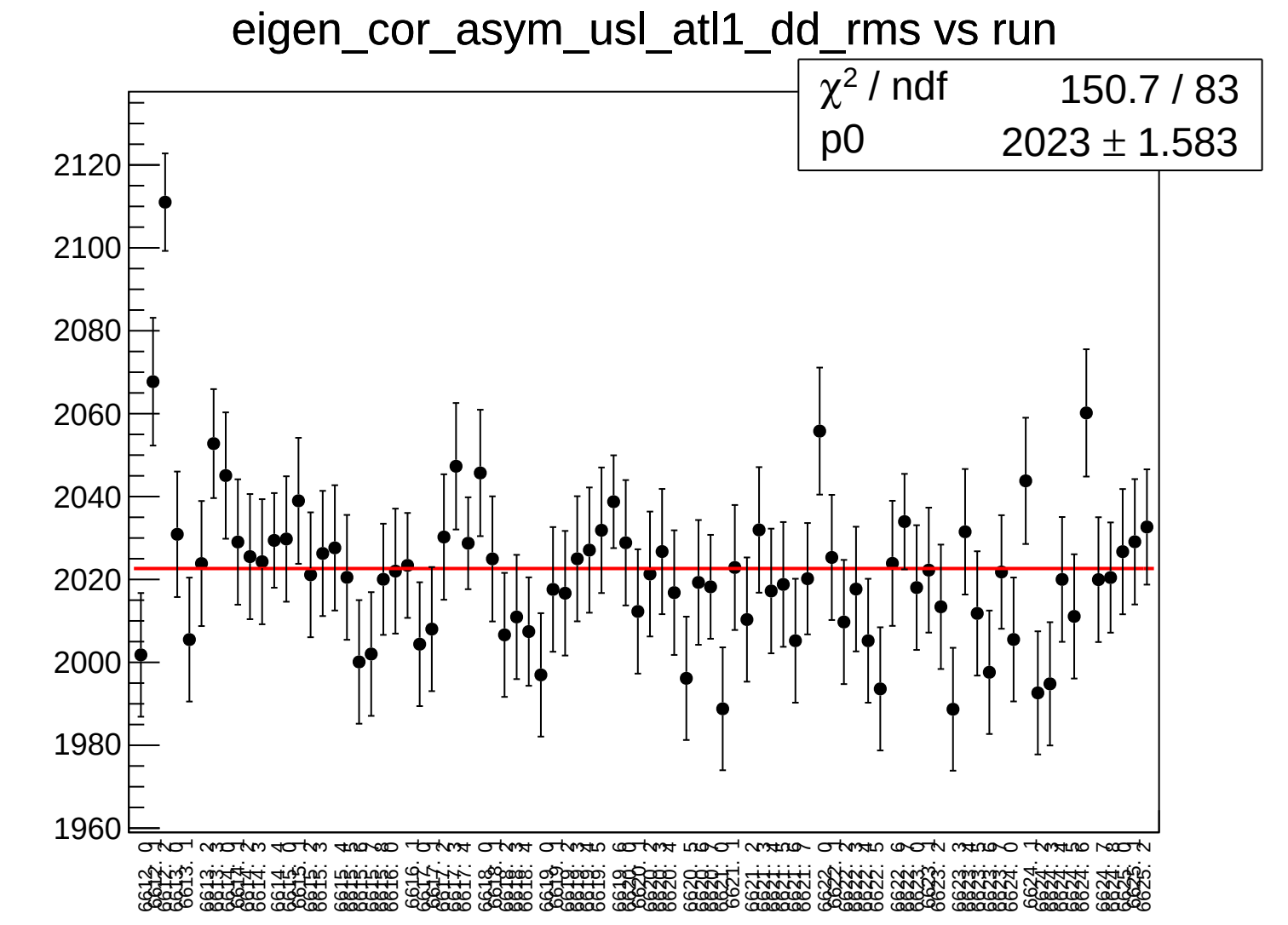

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 72.9 / 83
p0 −47.51 ± 787.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −27.01
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

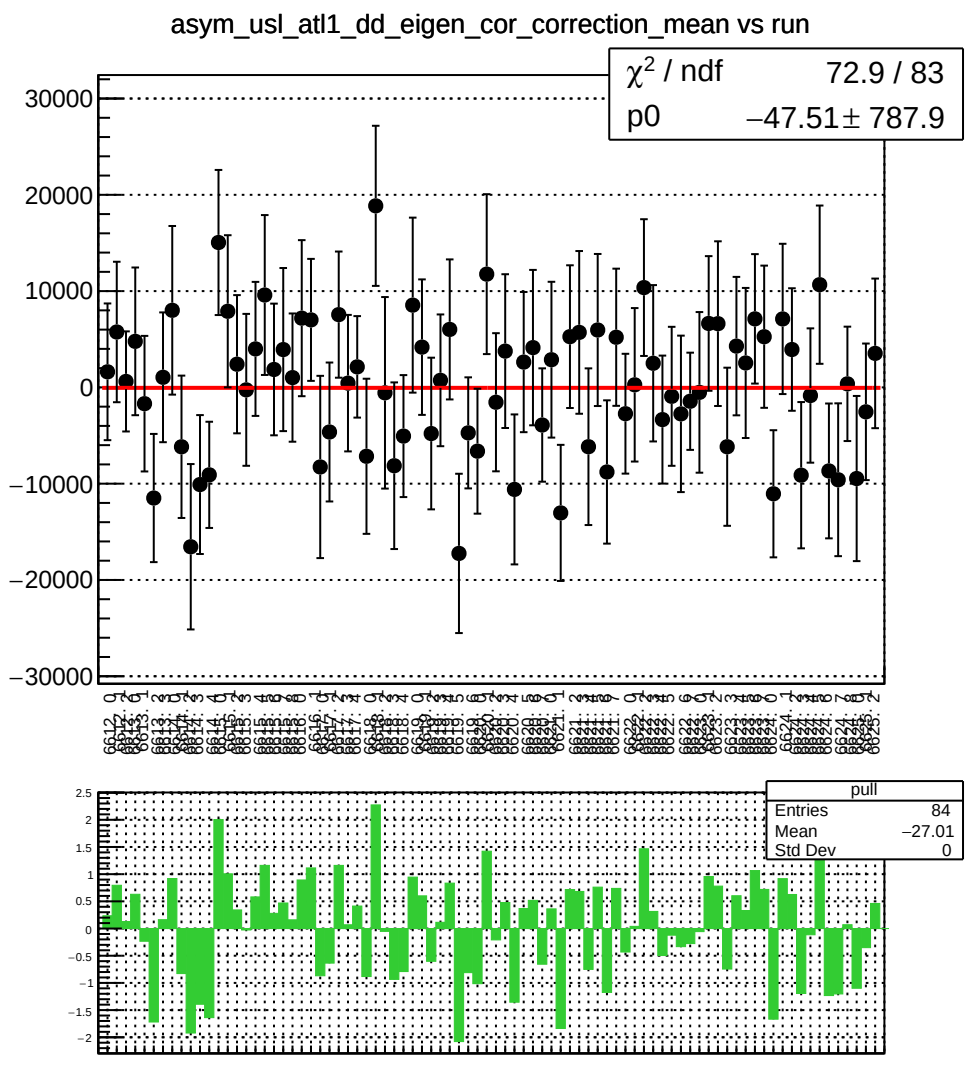

pull1D
Entries 84
Mean 0.015
Std Dev 0.9315
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

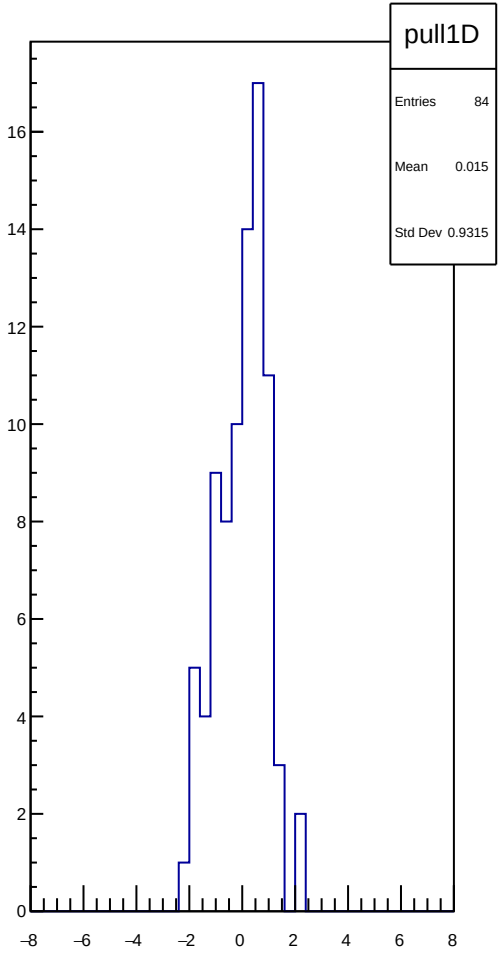

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1.323e+04 / 83
p0 708.9 ± 0.5571
950
900
850
800
750
700
650
600
550

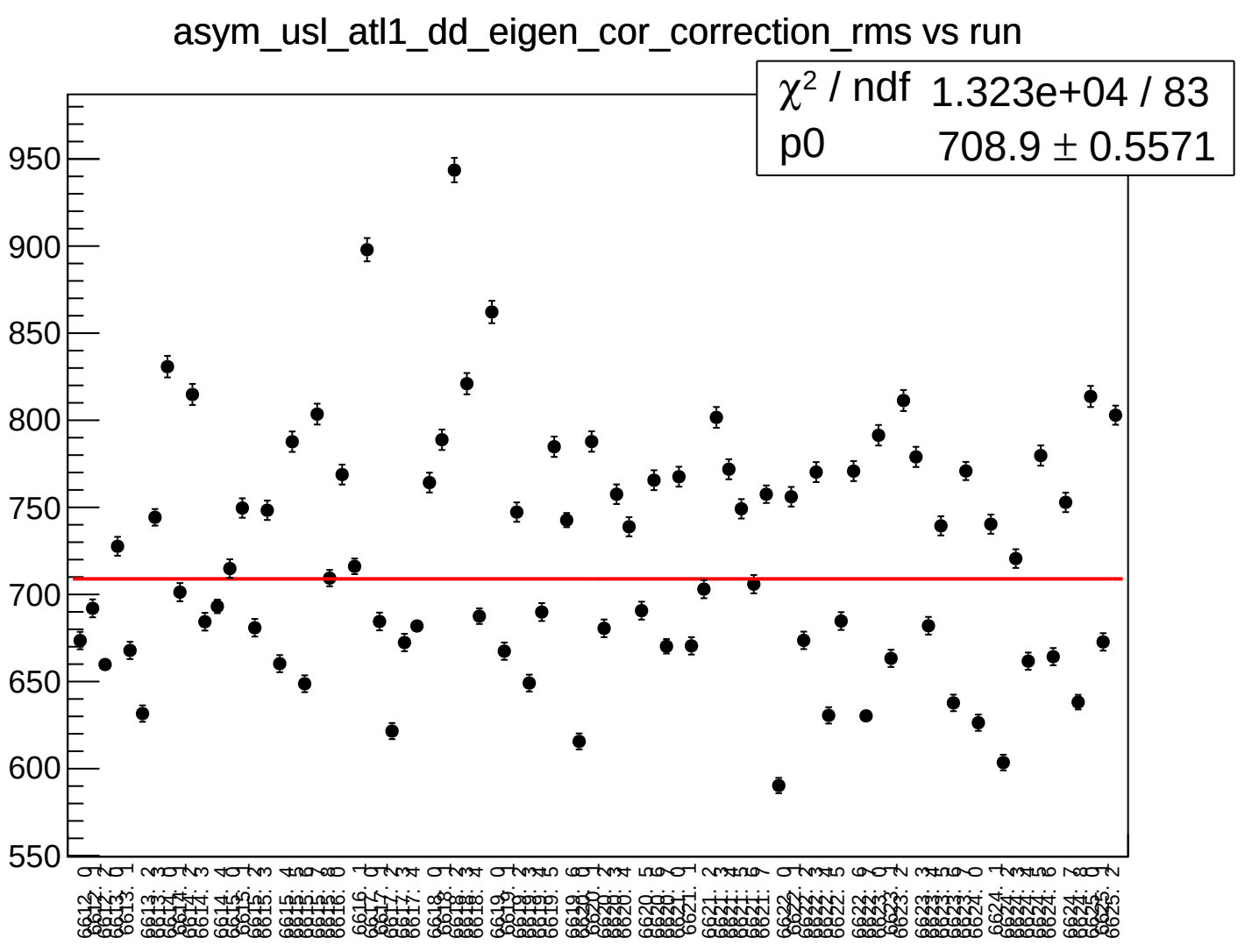

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 74.13 / 83
p0 −3962 ± 2239
pull
Entries 84
Mean 1.268e+04
Std Dev 0

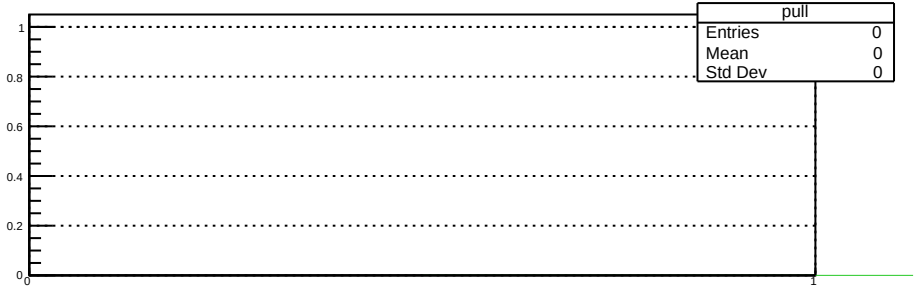

pull1D
Entries 84
Mean 0.0004305
Std Dev 0.9394

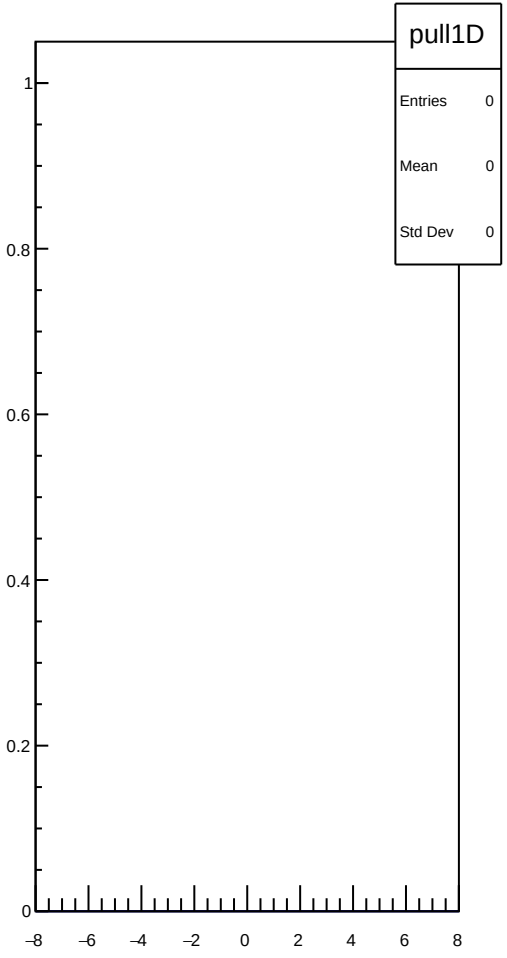

eigen_cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 150.7 / 83
p0 2023 ± 1.583
2120
2100
2080
2060
2040
2020
2000
1980
1960

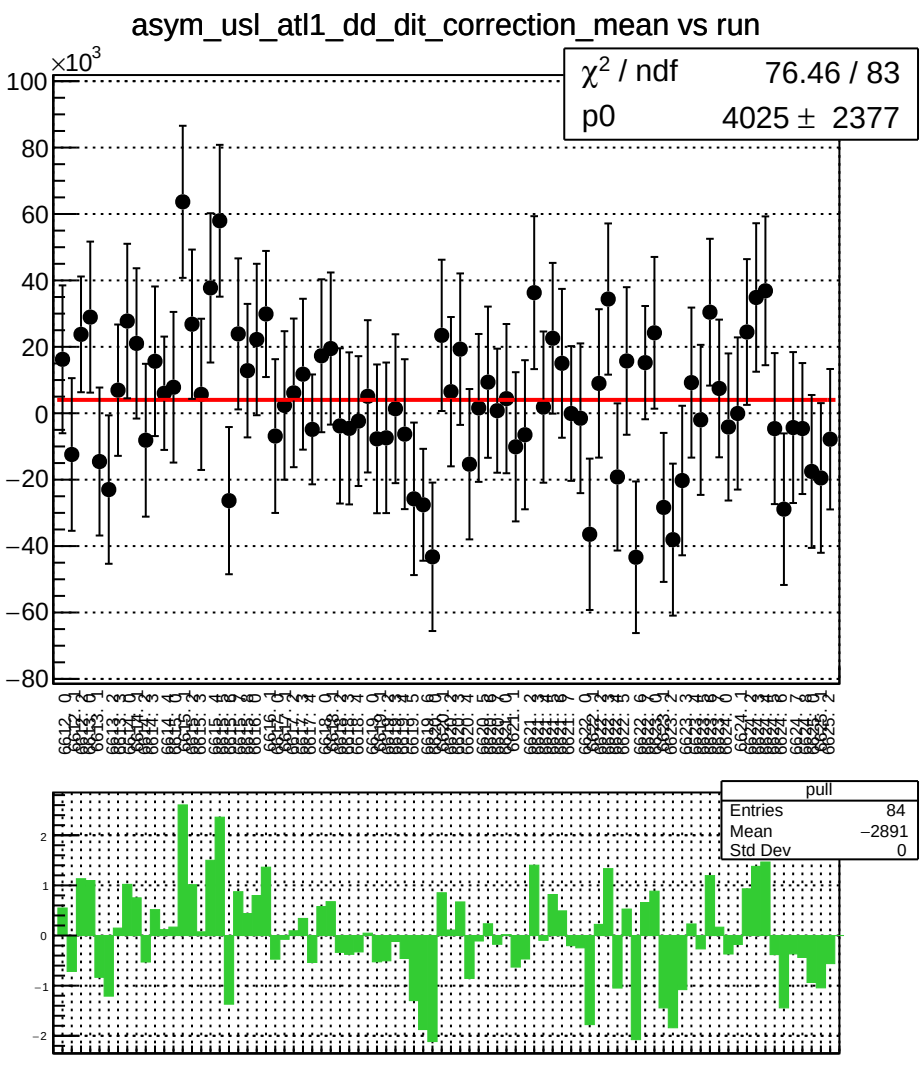

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.9 / 83
p0 −47.51 ± 787.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −27.01
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

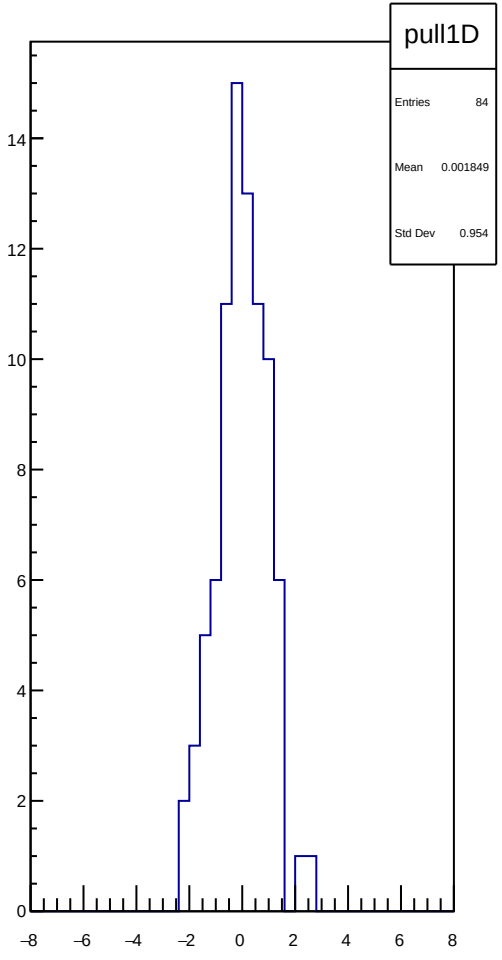

pull1D
Entries 84
Mean 0.015
Std Dev 0.9315
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

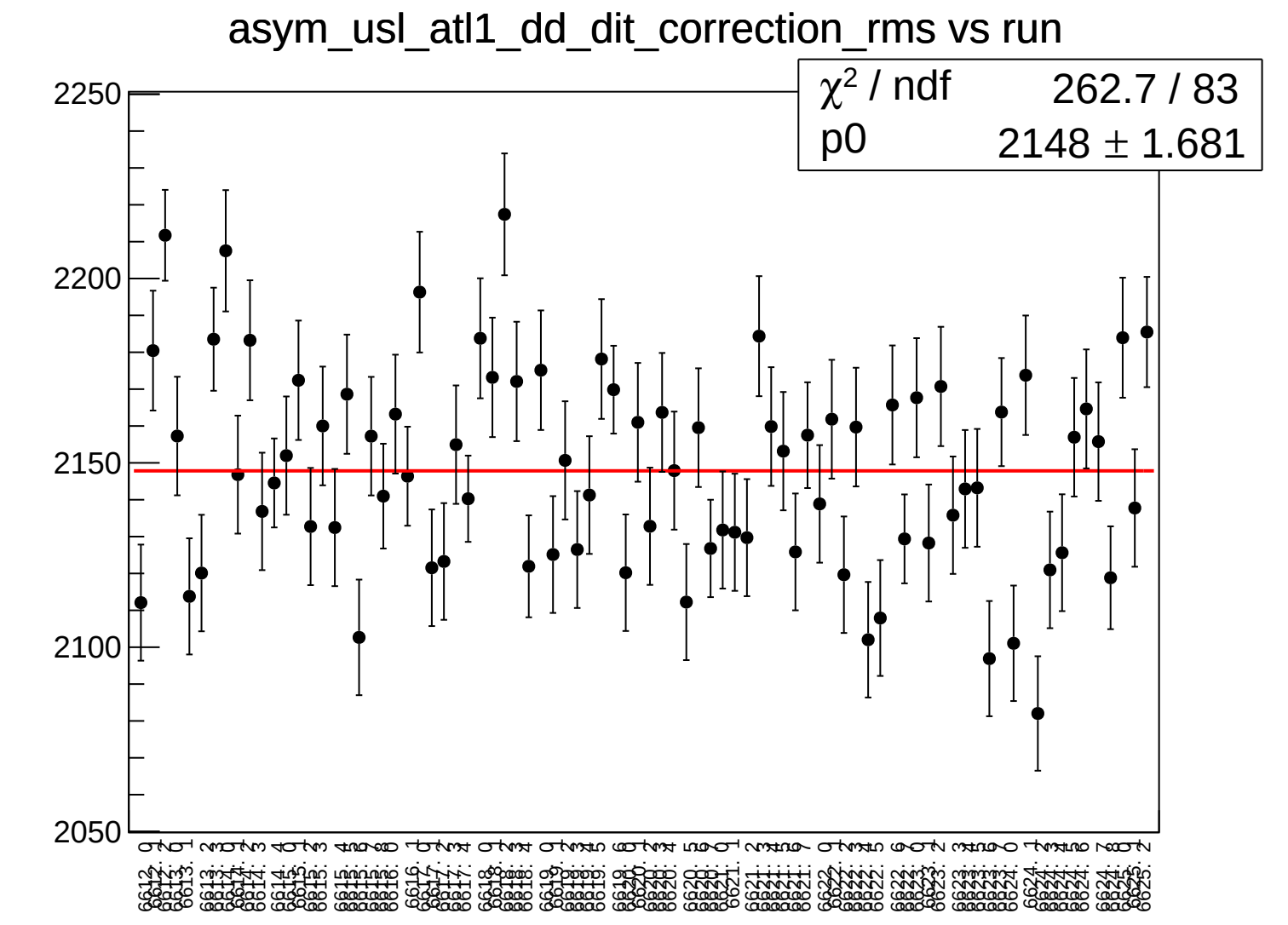

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.323e+04 / 83
p0 708.9 ± 0.5571
950
900
850
800
750
700
650
600
550

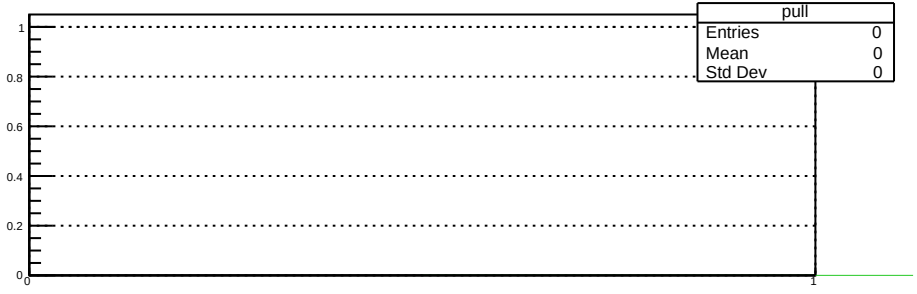

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

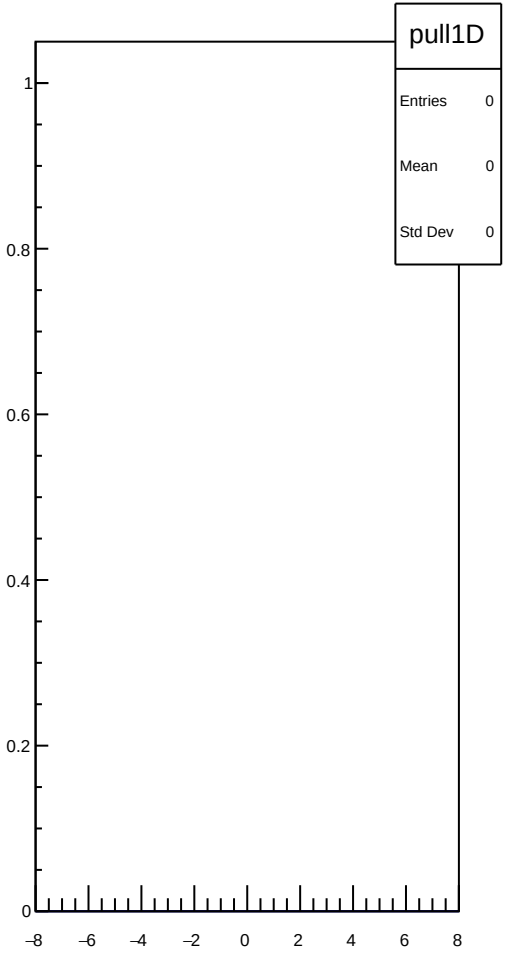

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

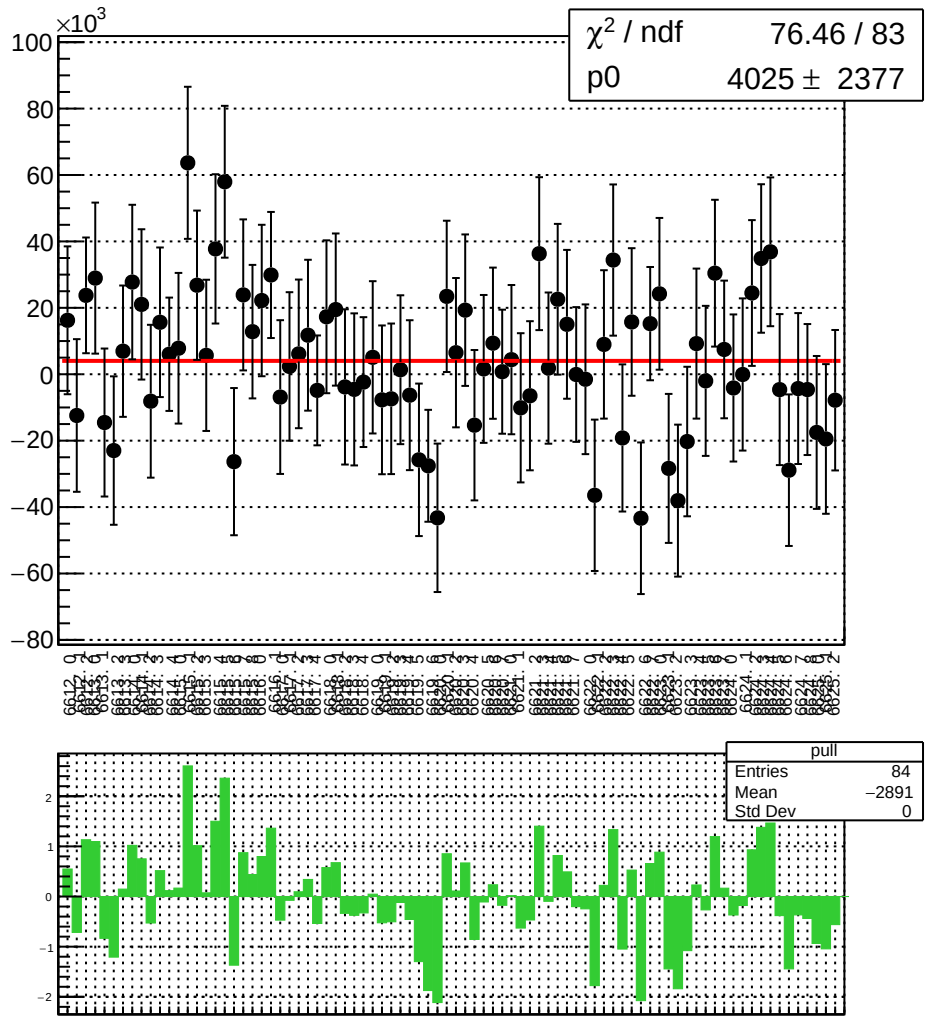

asym_usl_atl1_dd_dit_correction_mean vs run
×10^3
χ² / ndf 76.46 / 83
p0 4025 ± 2377
pull
Entries 84
Mean −2891
Std Dev 0

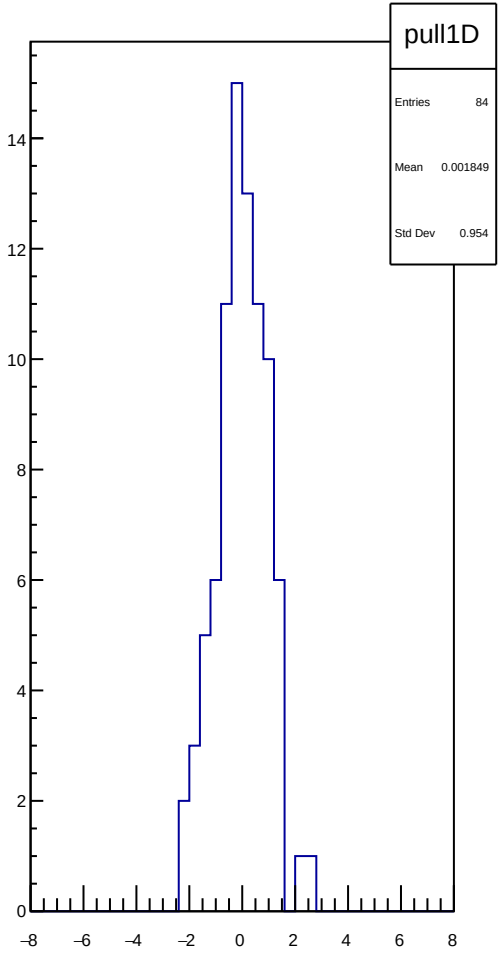

pull1D
Entries 84
Mean 0.001849
Std Dev 0.954

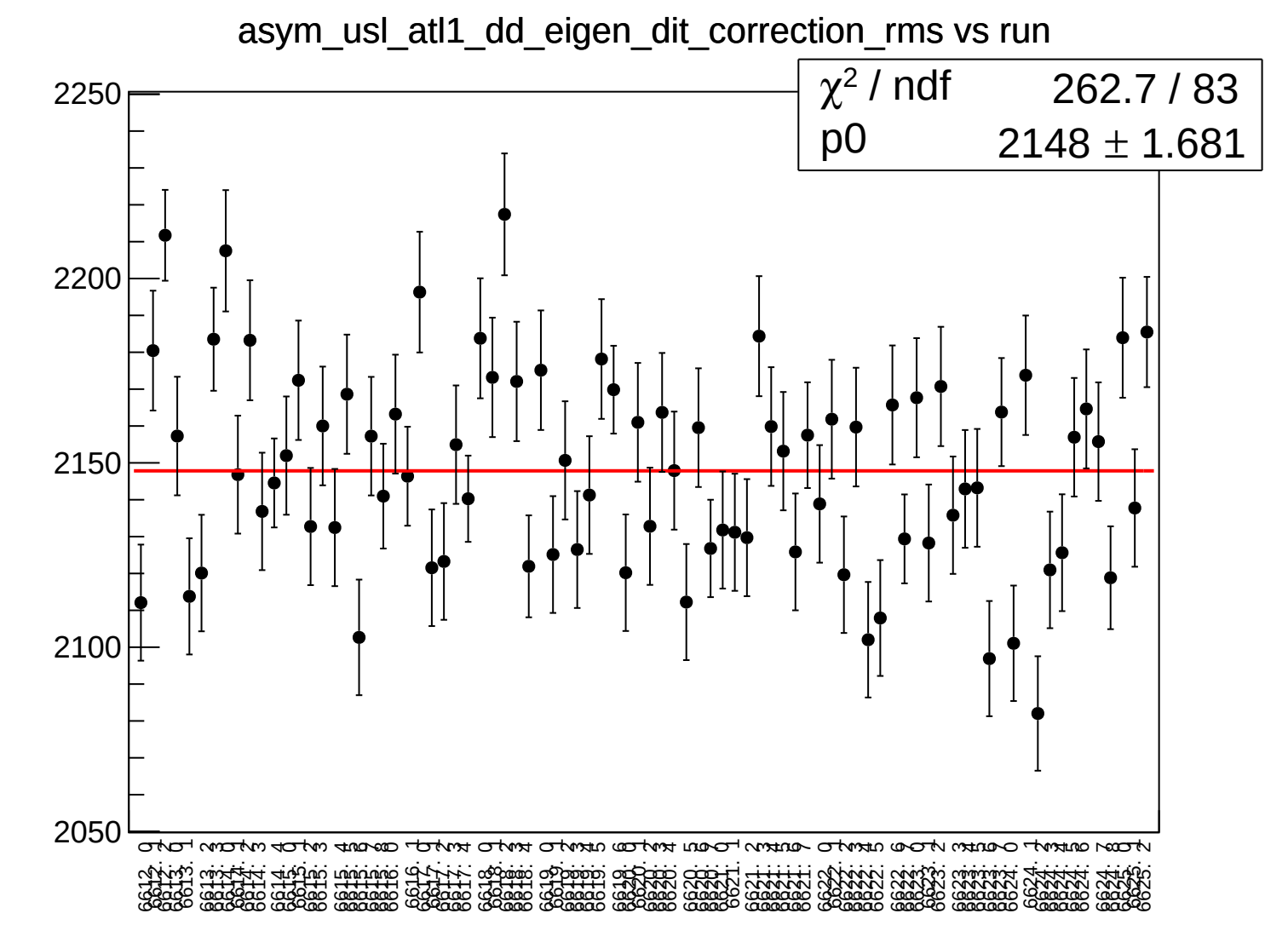

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 262.7 / 83
p0 2148 ± 1.681
2250
2200
2150
2100
2050

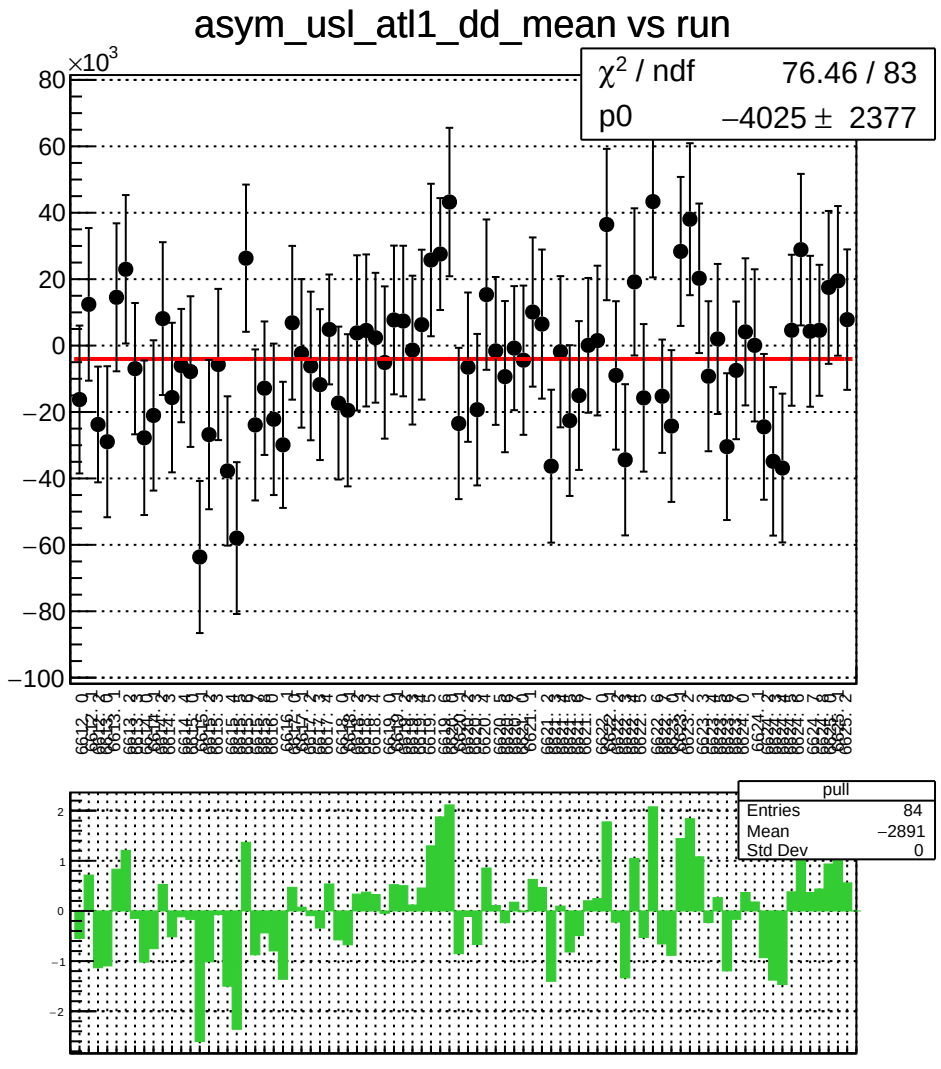

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

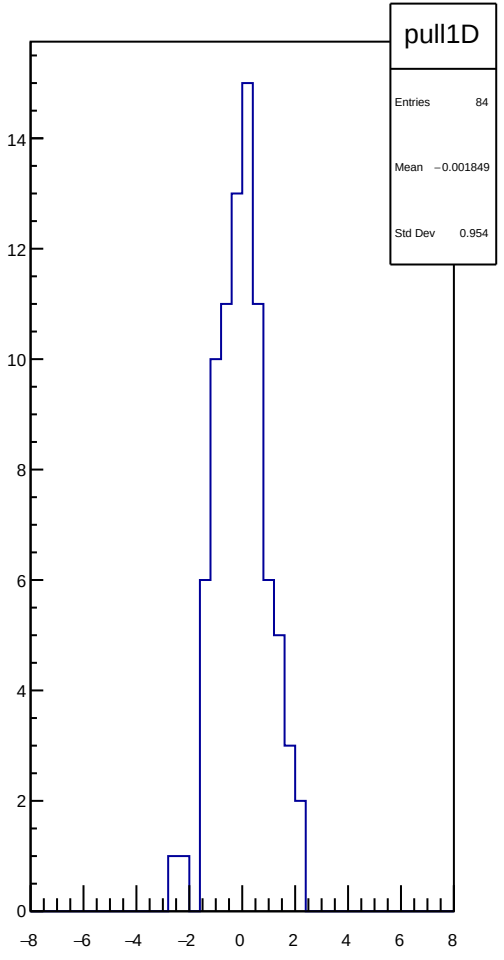

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

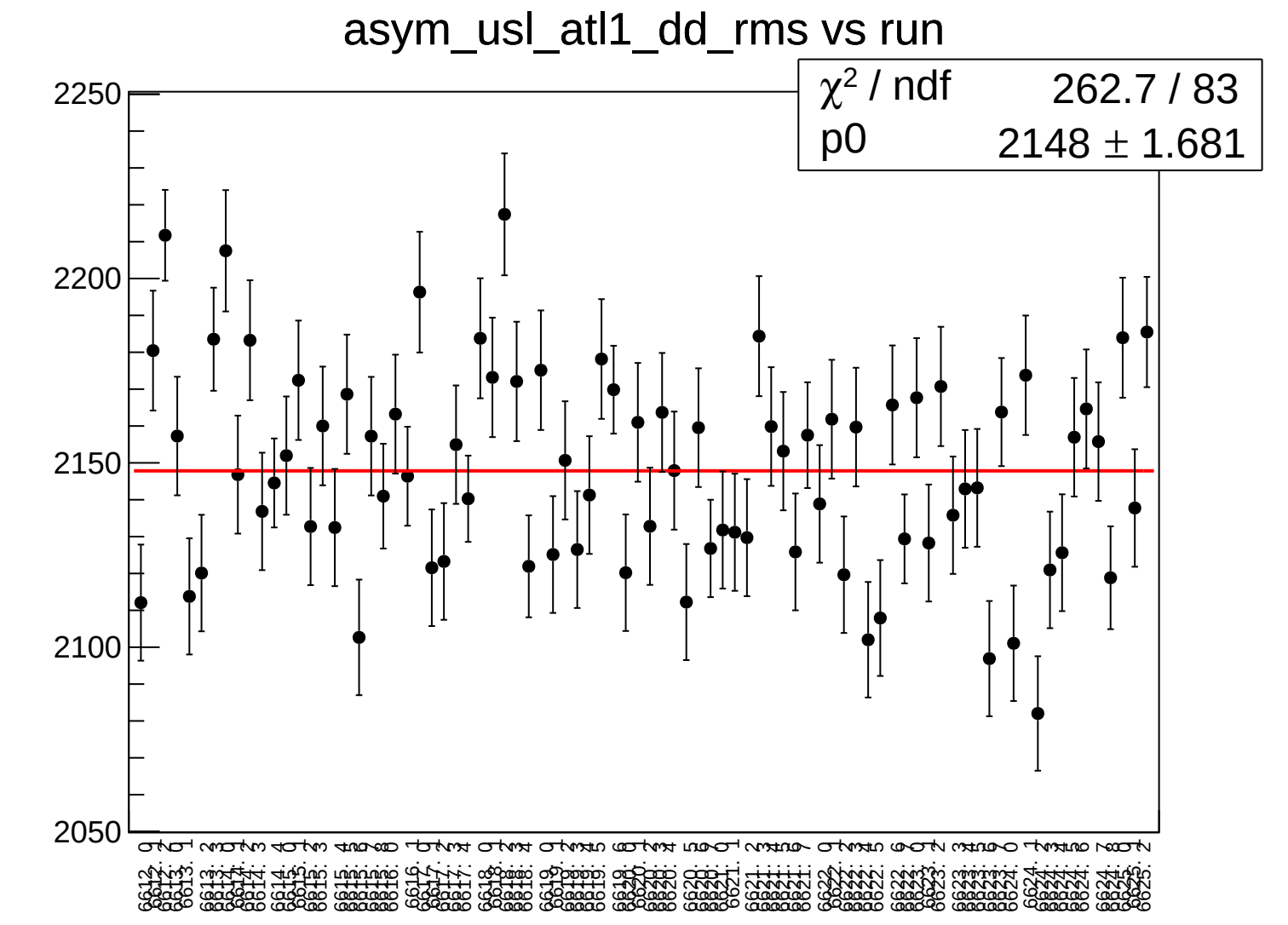

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.46 / 83
p0 4025 ± 2377
×10³
pull
Entries 84
Mean −2891
Std Dev 0

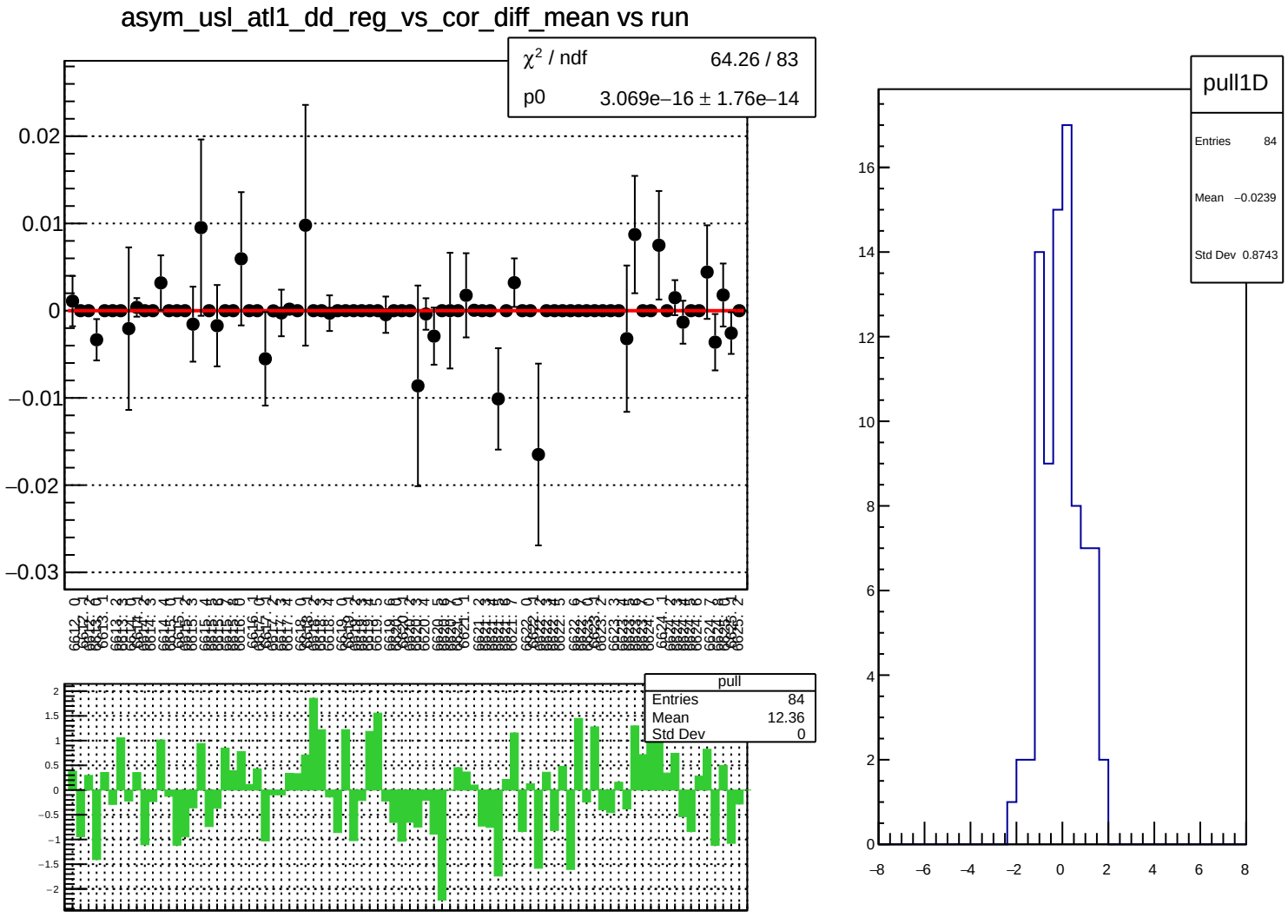

pull1D
Entries 84
Mean 0.001849
Std Dev 0.954

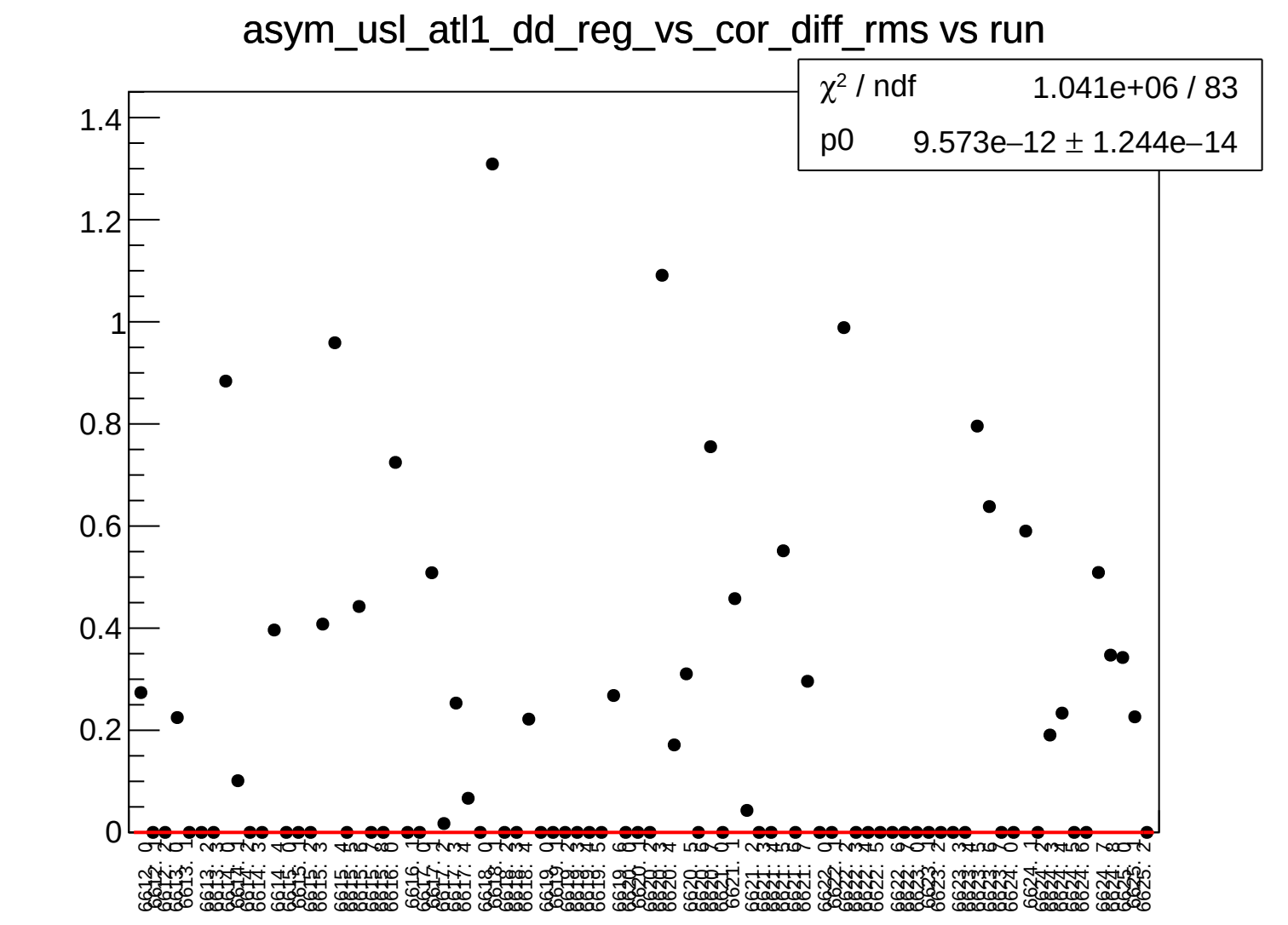

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 262.7 / 83
p0 2148 ± 1.681
2250
2200
2150
2100
2050

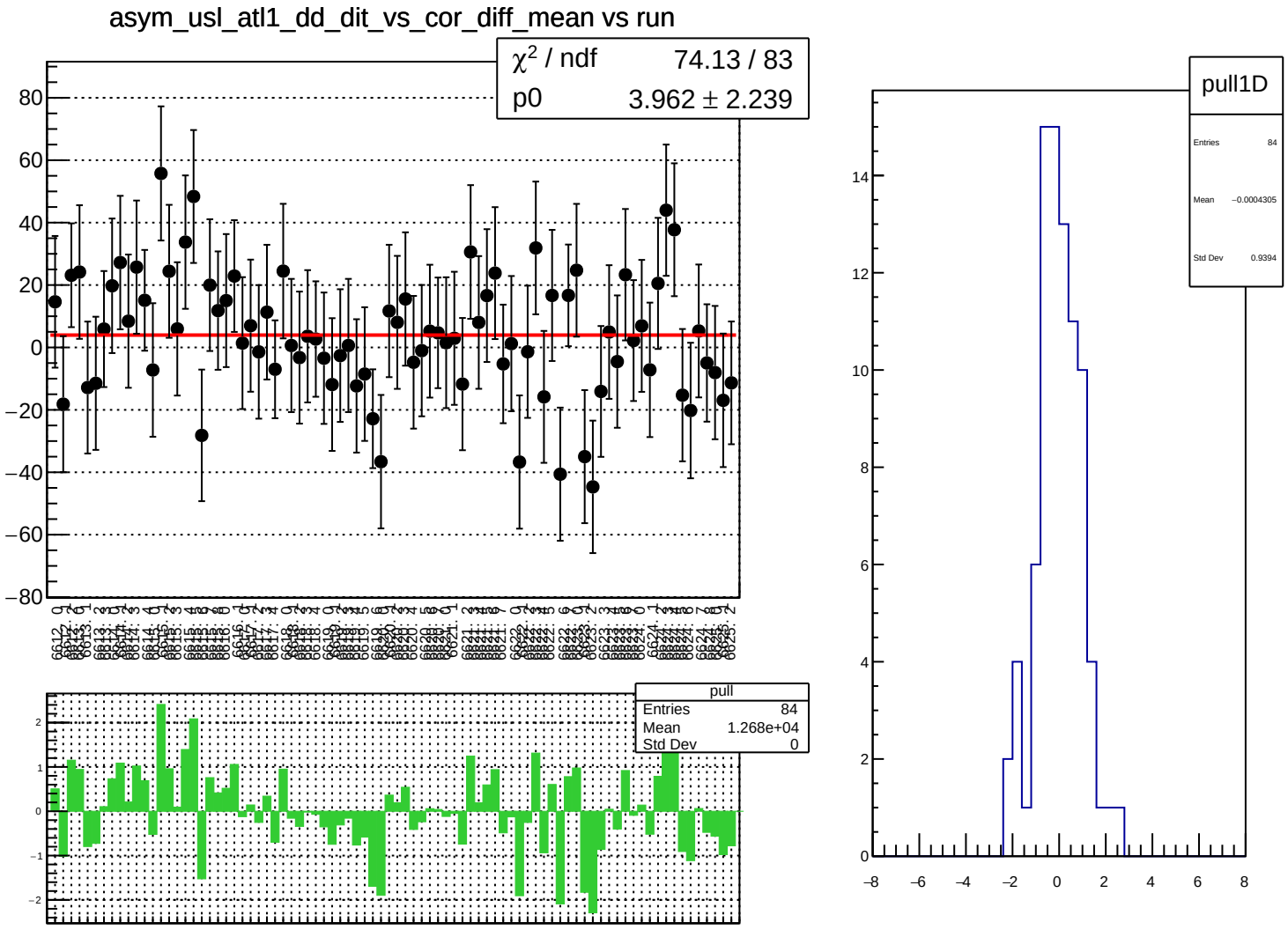

asym_usl_atl1_dd_mean vs run
×10^3
χ^2 / ndf 76.46 / 83
p0 −4025 ± 2377
pull
Entries 84
Mean −2891
Std Dev 0

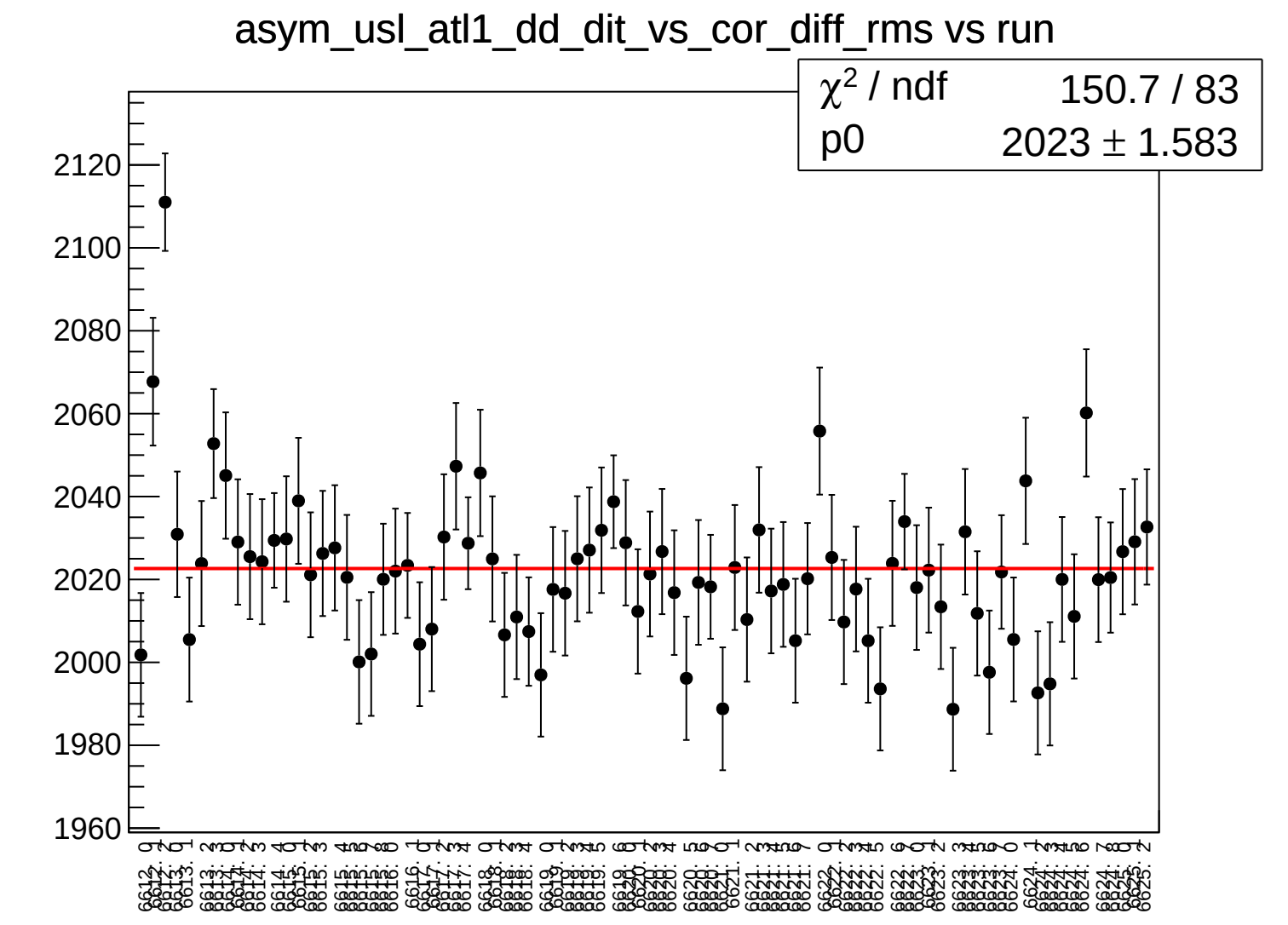

pull1D
Entries 84
Mean −0.001849
Std Dev 0.954

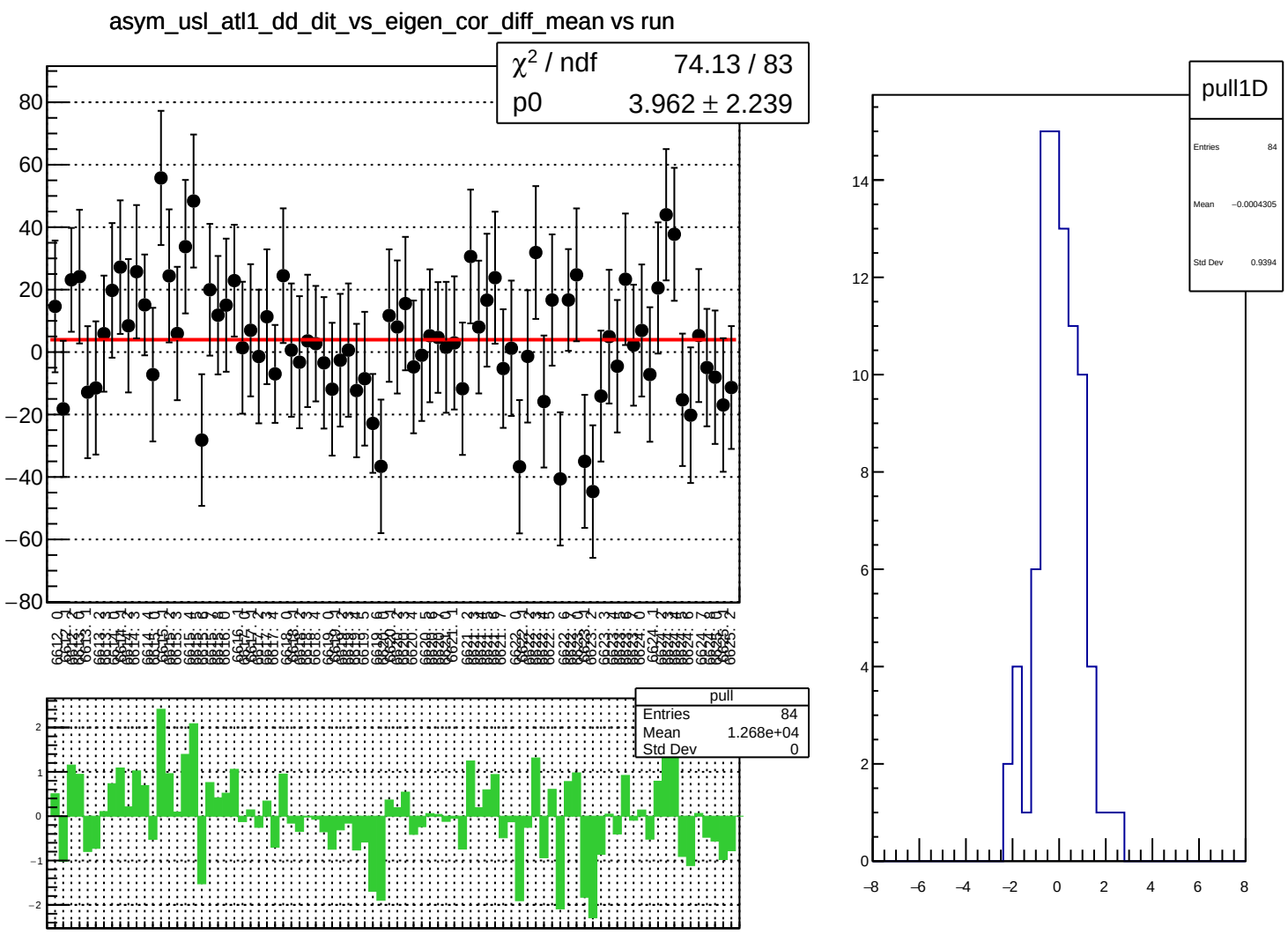

asym_usl_atl1_dd_rms vs run
χ² / ndf 262.7 / 83
p0 2148 ± 1.681
2250
2200
2150
2100
2050

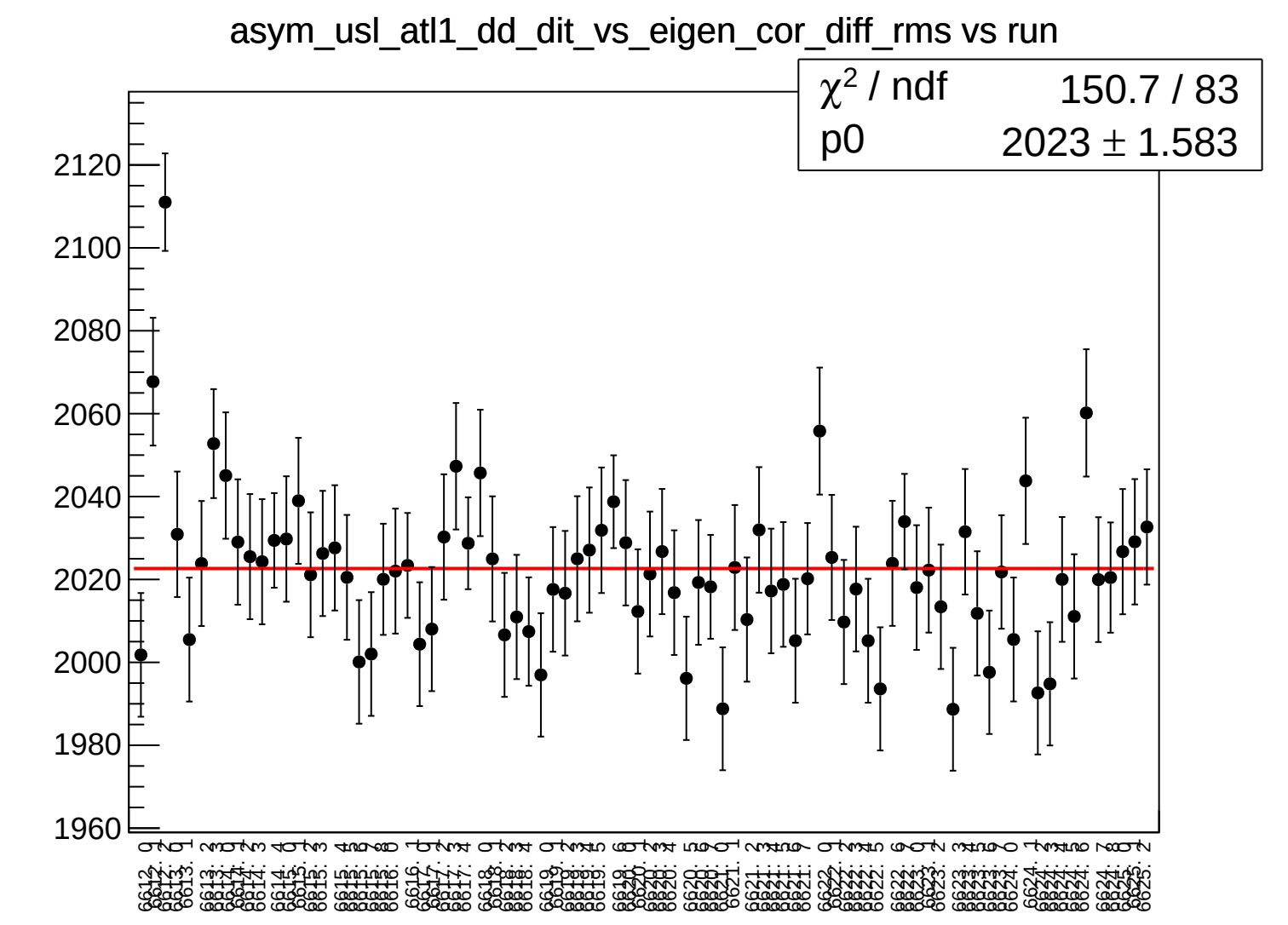

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 64.26 / 83
p0 3.069e−16 ± 1.76e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean 12.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.0239
Std Dev 0.8743
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

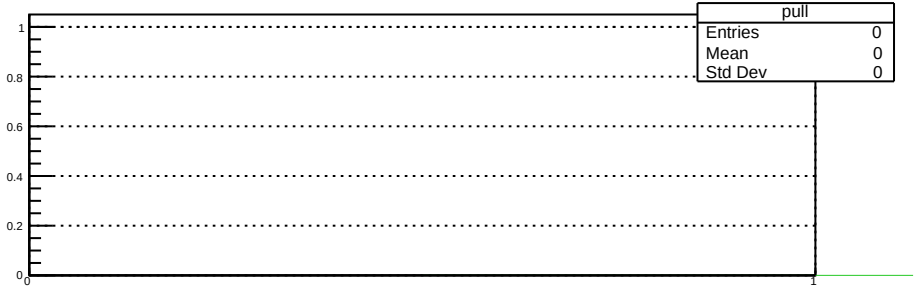

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.041e+06 / 83
p0 9.573e−12 ± 1.244e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

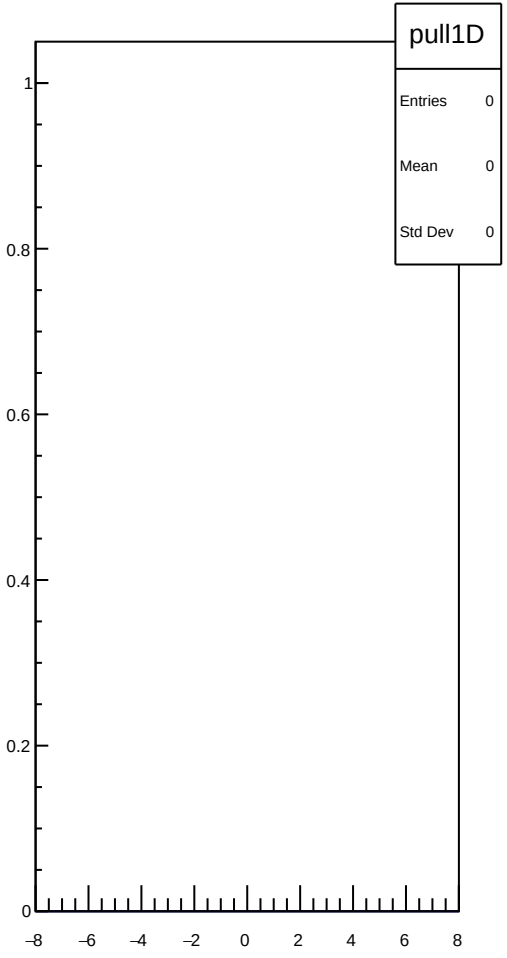

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.13 / 83
p0 3.962 ± 2.239
pull
Entries 84
Mean 1.268e+04
Std Dev 0
pull1D
Entries 84
Mean −0.0004305
Std Dev 0.9394

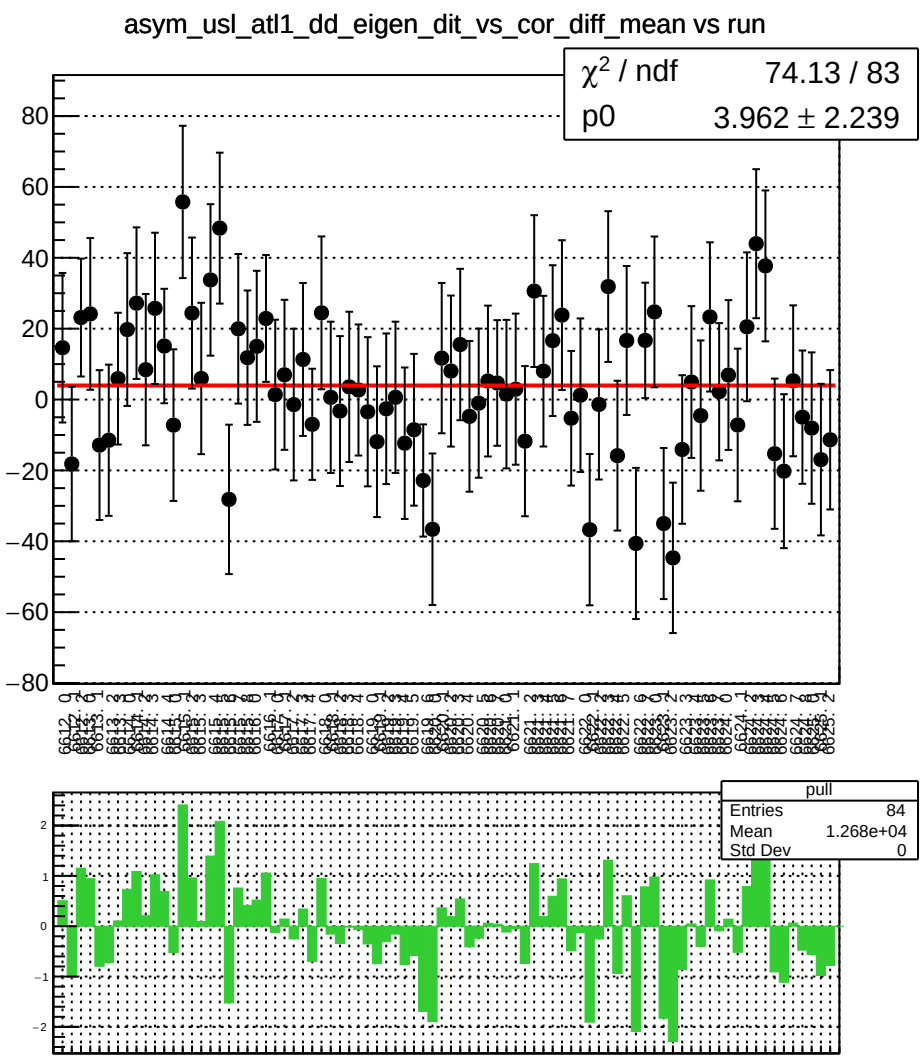

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 150.7 / 83
p0 2023 ± 1.583
2120
2100
2080
2060
2040
2020
2000
1980
1960

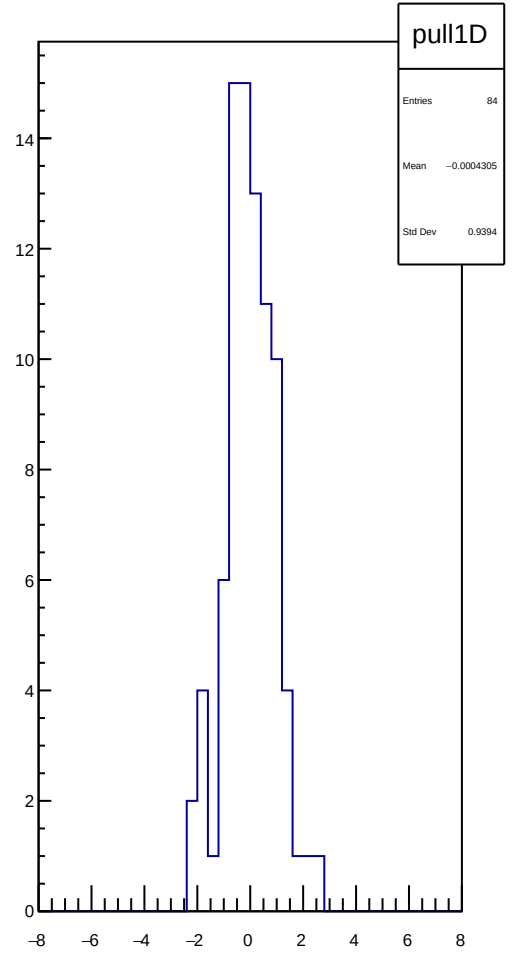

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.13 / 83
p0 3.962 ± 2.239
pull
Entries 84
Mean 1.268e+04
Std Dev 0
pull1D
Entries 84
Mean −0.0004305
Std Dev 0.9394

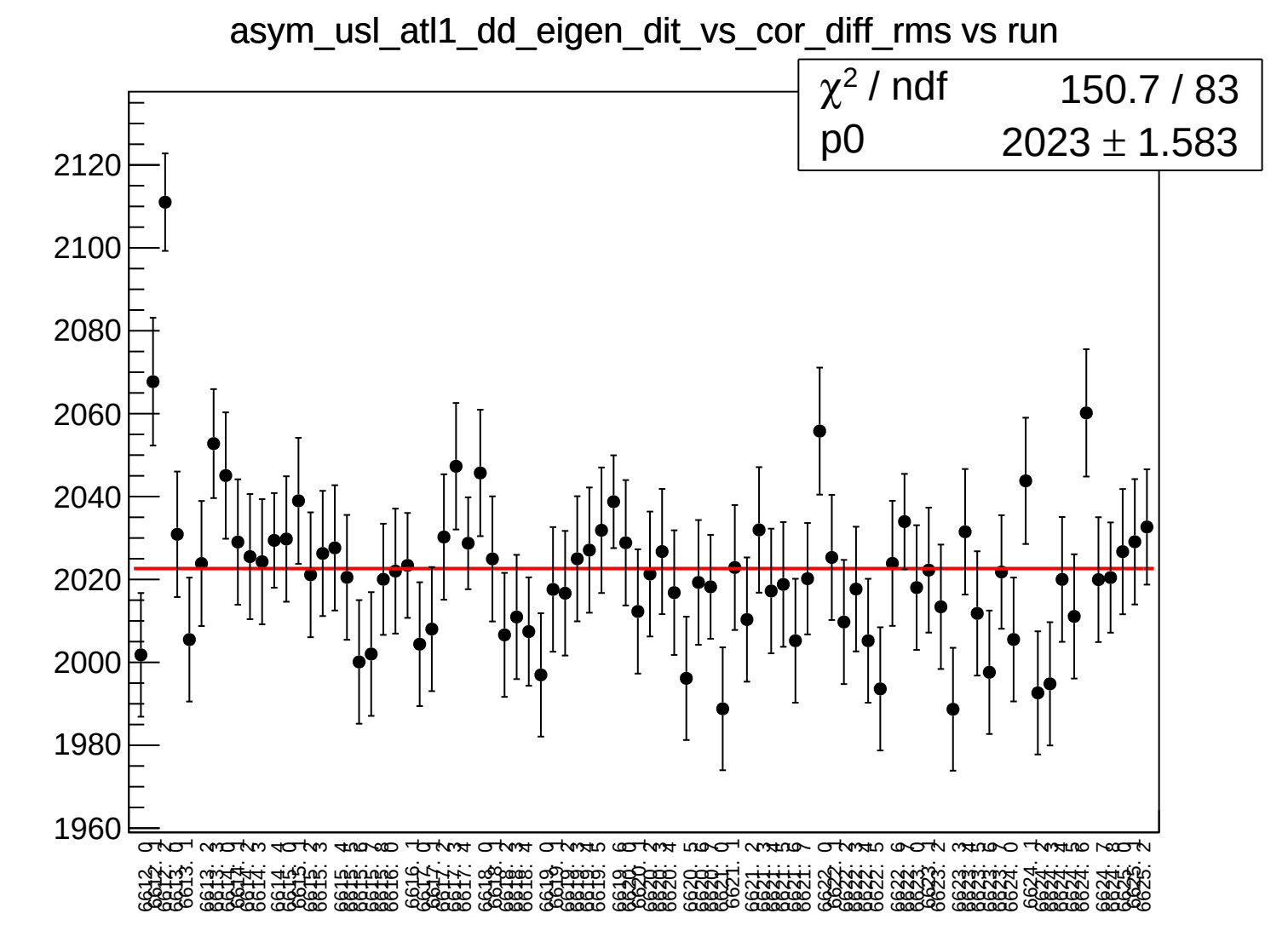

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 150.7 / 83
p0 2023 ± 1.583
2120
2100
2080
2060
2040
2020
2000
1980
1960

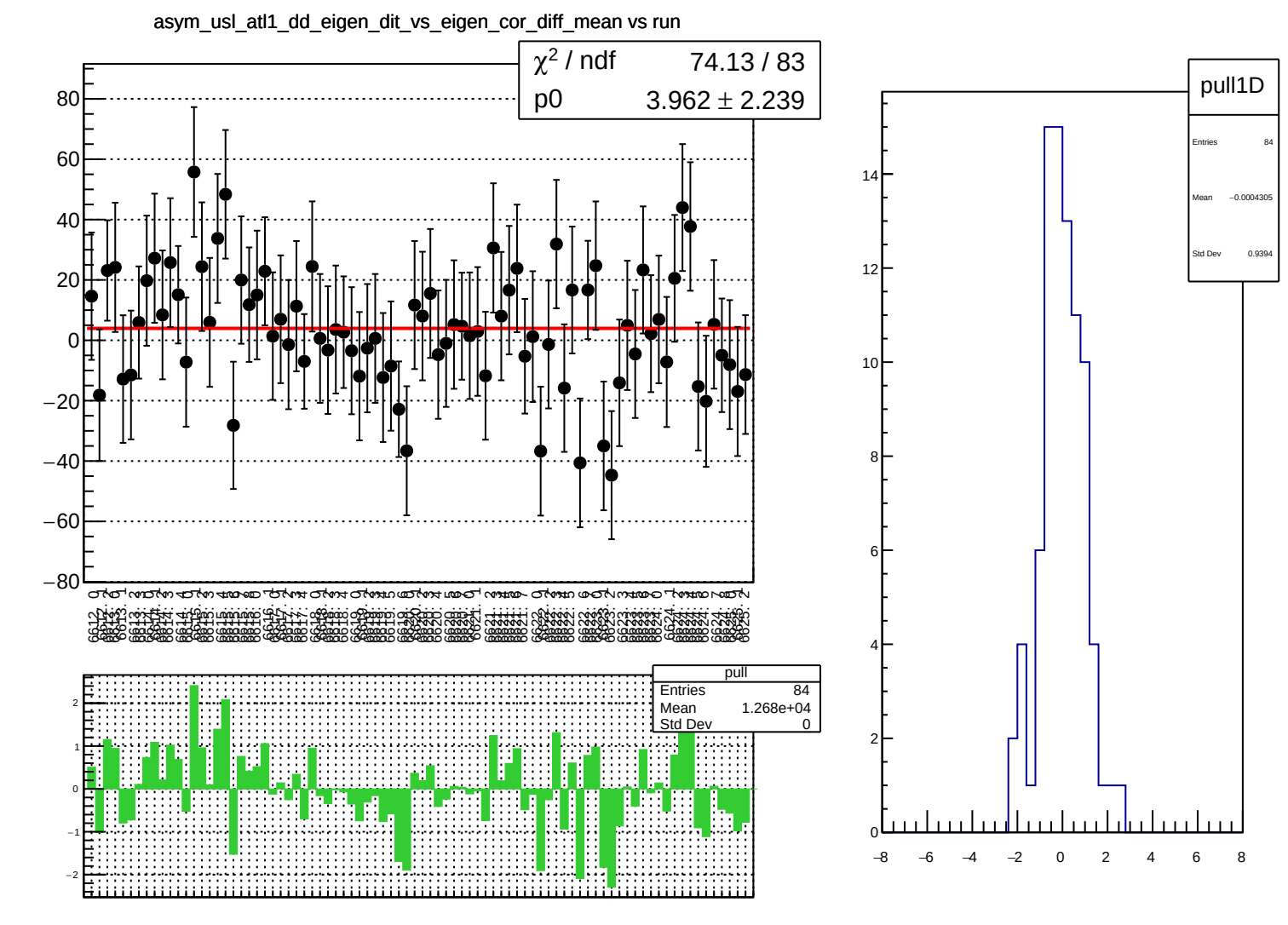

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

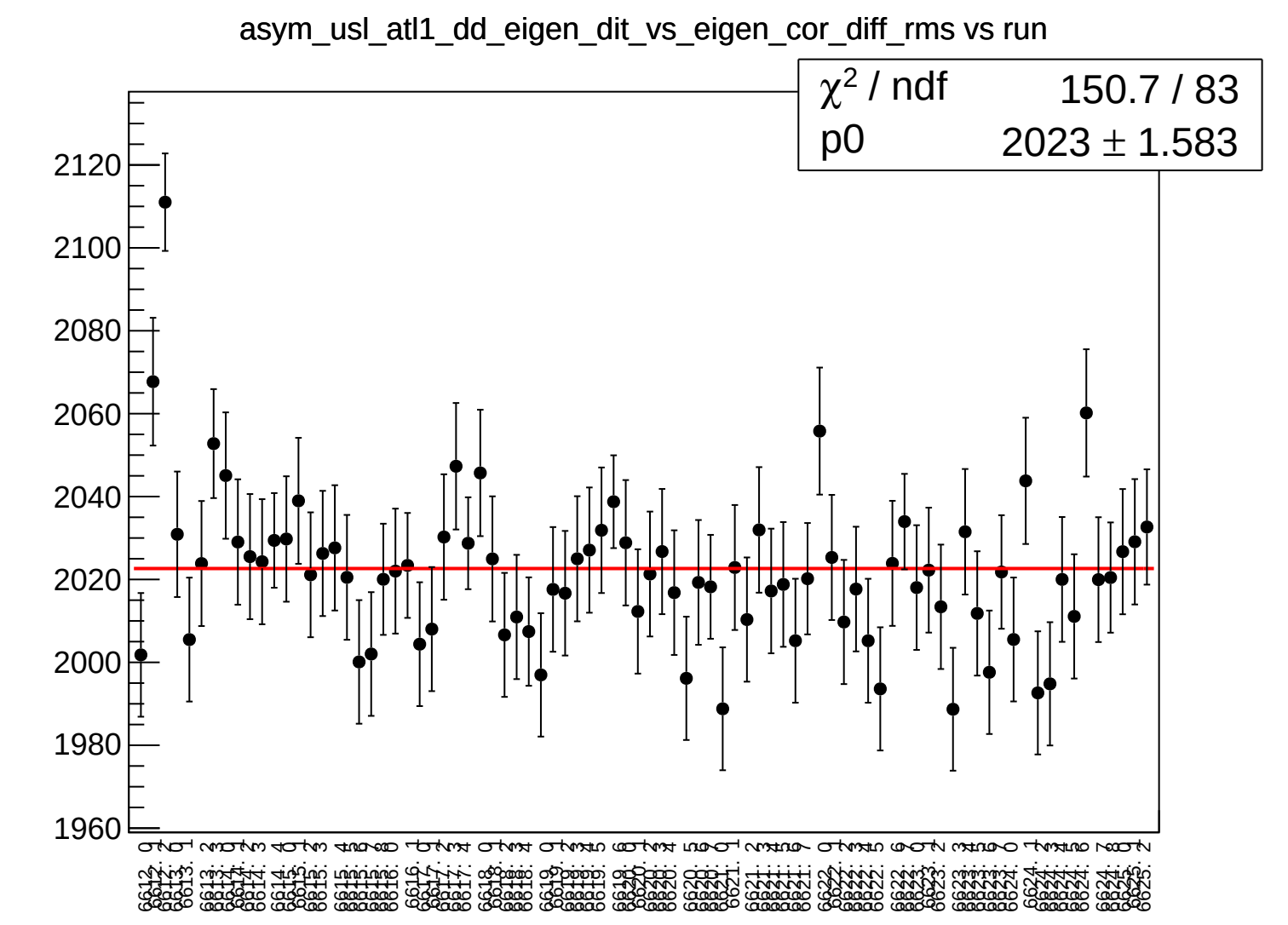

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

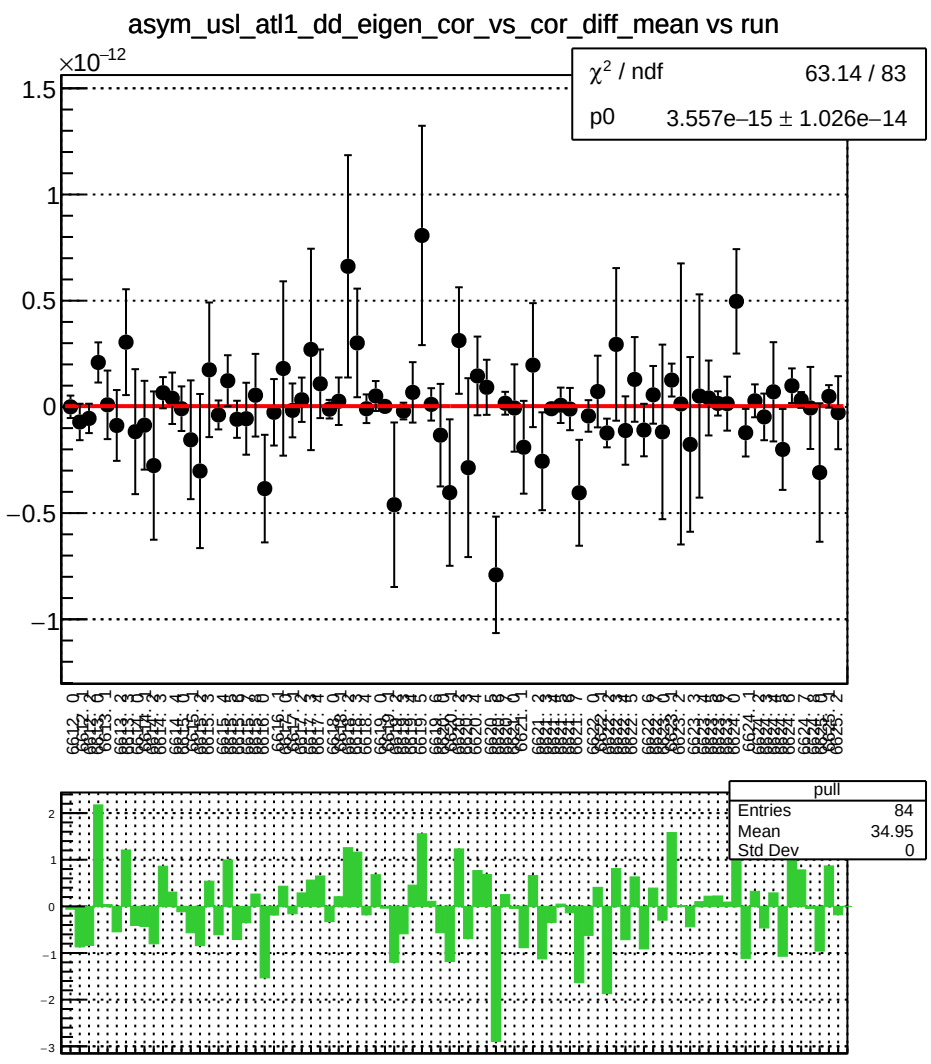

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.13 / 83
p0 3.962 ± 2.239
pull
Entries 84
Mean 1.268e+04
Std Dev 0

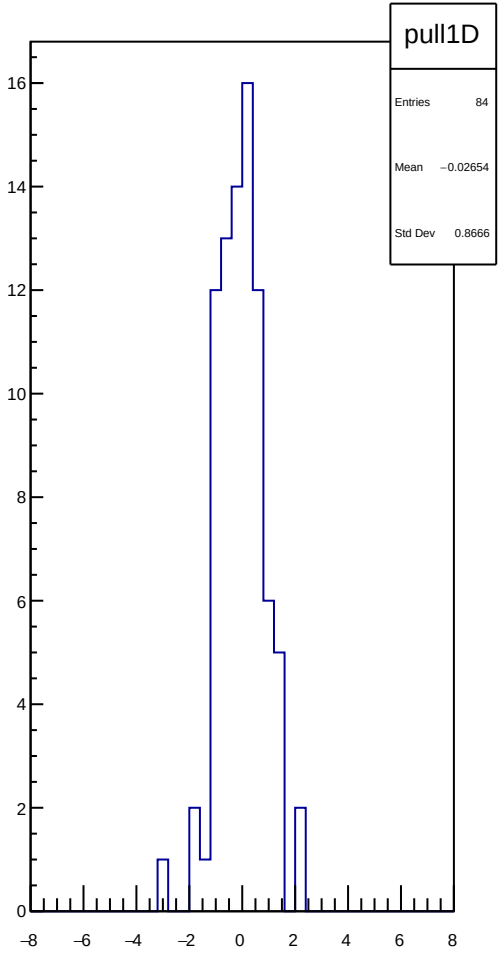

pull1D
Entries 84
Mean −0.0004305
Std Dev 0.9394

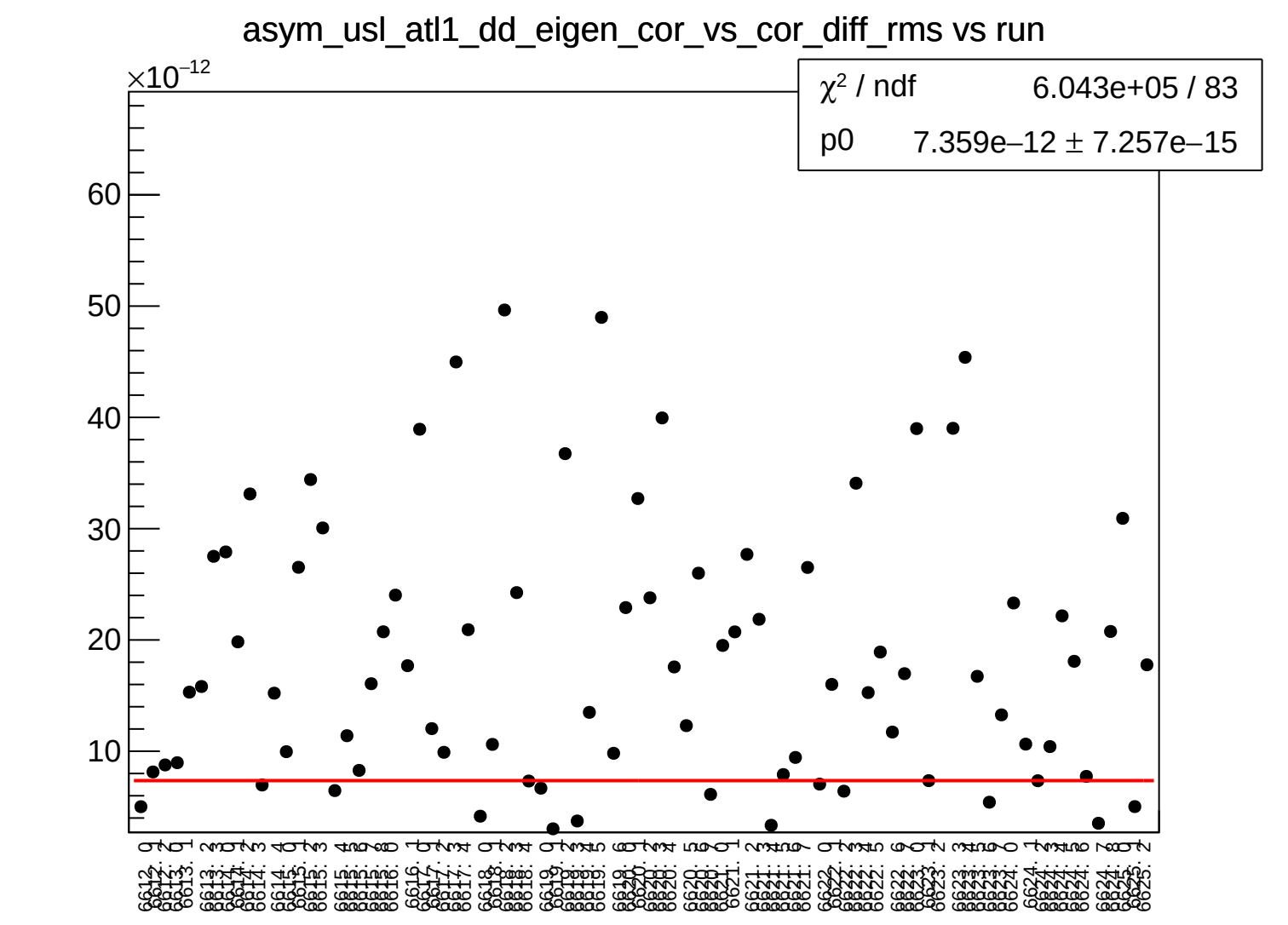

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 150.7 / 83
p0 2023 ± 1.583
2120
2100
2080
2060
2040
2020
2000
1980
1960

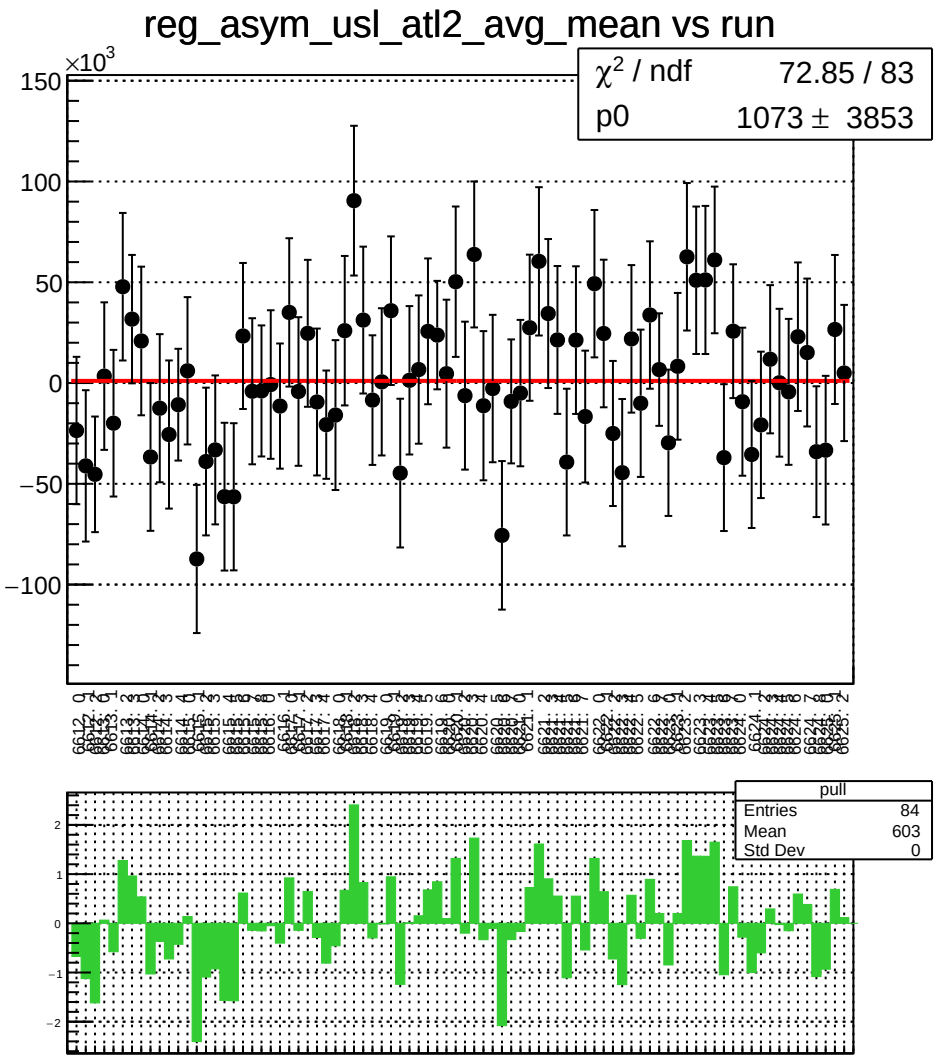

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.13 / 83
p0 3.962 ± 2.239
pull
Entries 84
Mean 1.268e+04
Std Dev 0
pull1D
Entries 84
Mean −0.0004305
Std Dev 0.9394

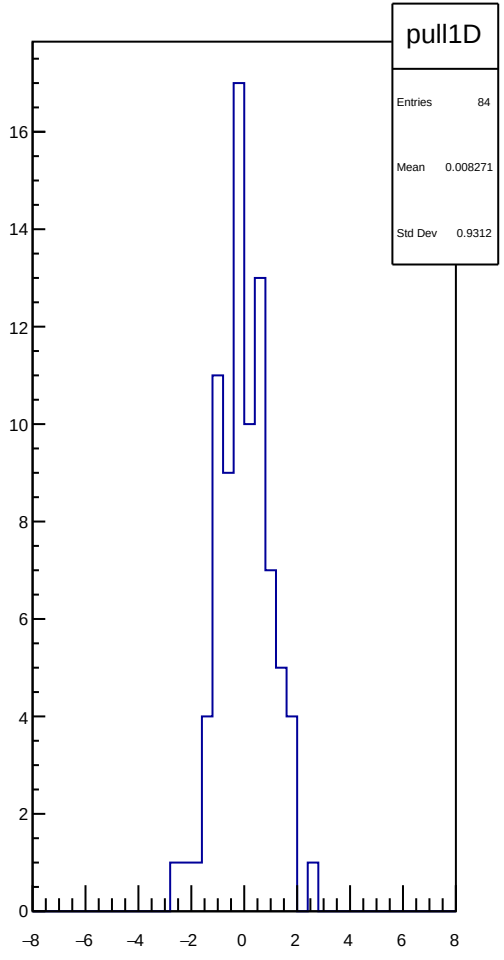

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 150.7 / 83
p0 2023 ± 1.583
2120
2100
2080
2060
2040
2020
2000
1980
1960

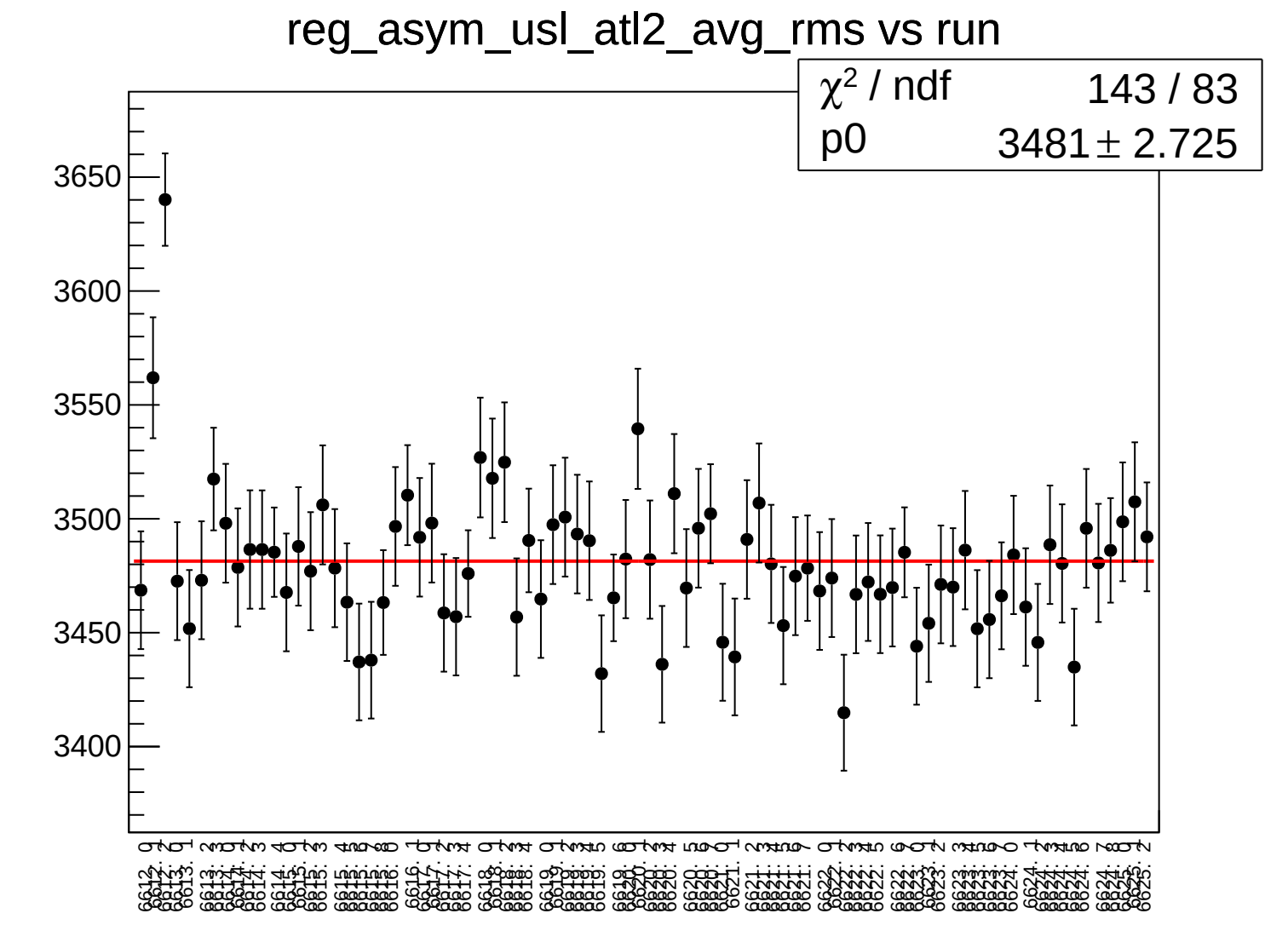

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.14 / 83
p0 3.557e−15 ± 1.026e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 84
Mean 34.95
Std Dev 0
2
1
0
−1
−2
−3

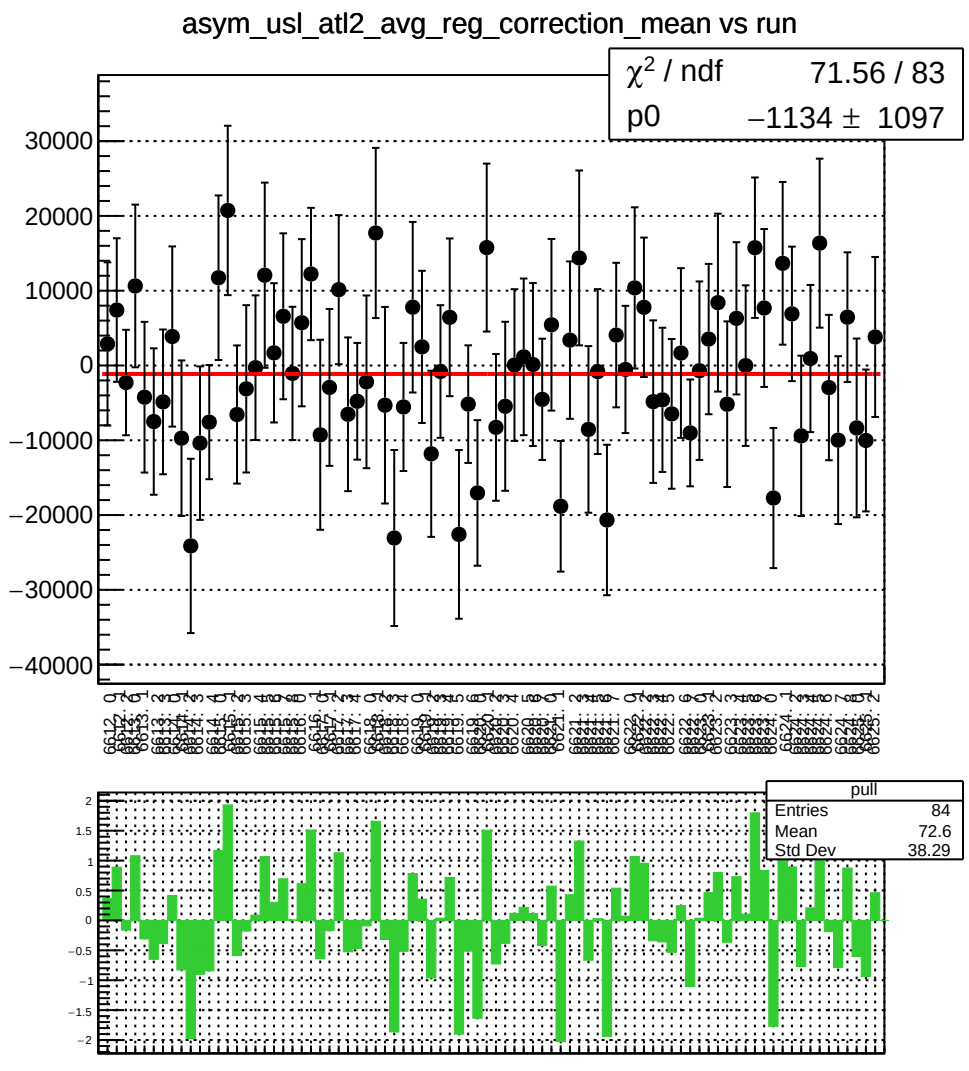

pull1D
Entries 84
Mean −0.02654
Std Dev 0.8666
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

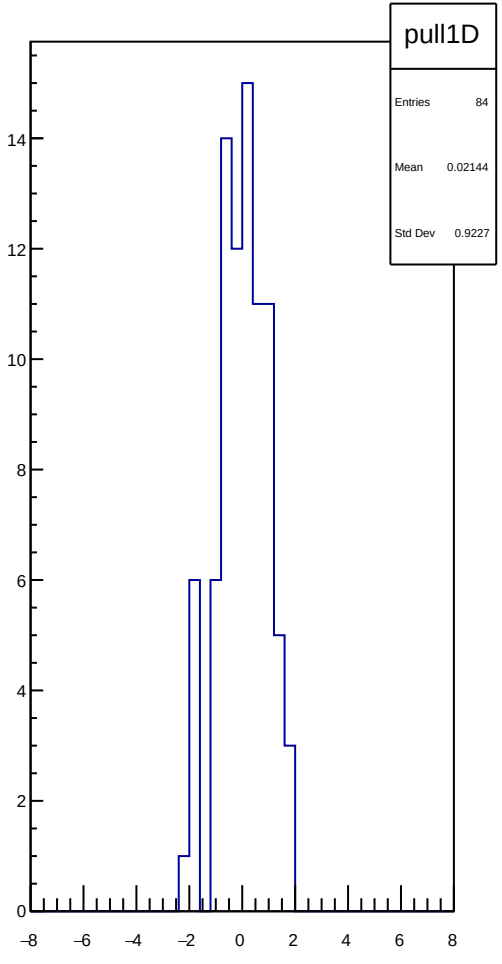

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.043e+05 / 83
p0 7.359e−12 ± 7.257e−15
60
50
40
30
20
10

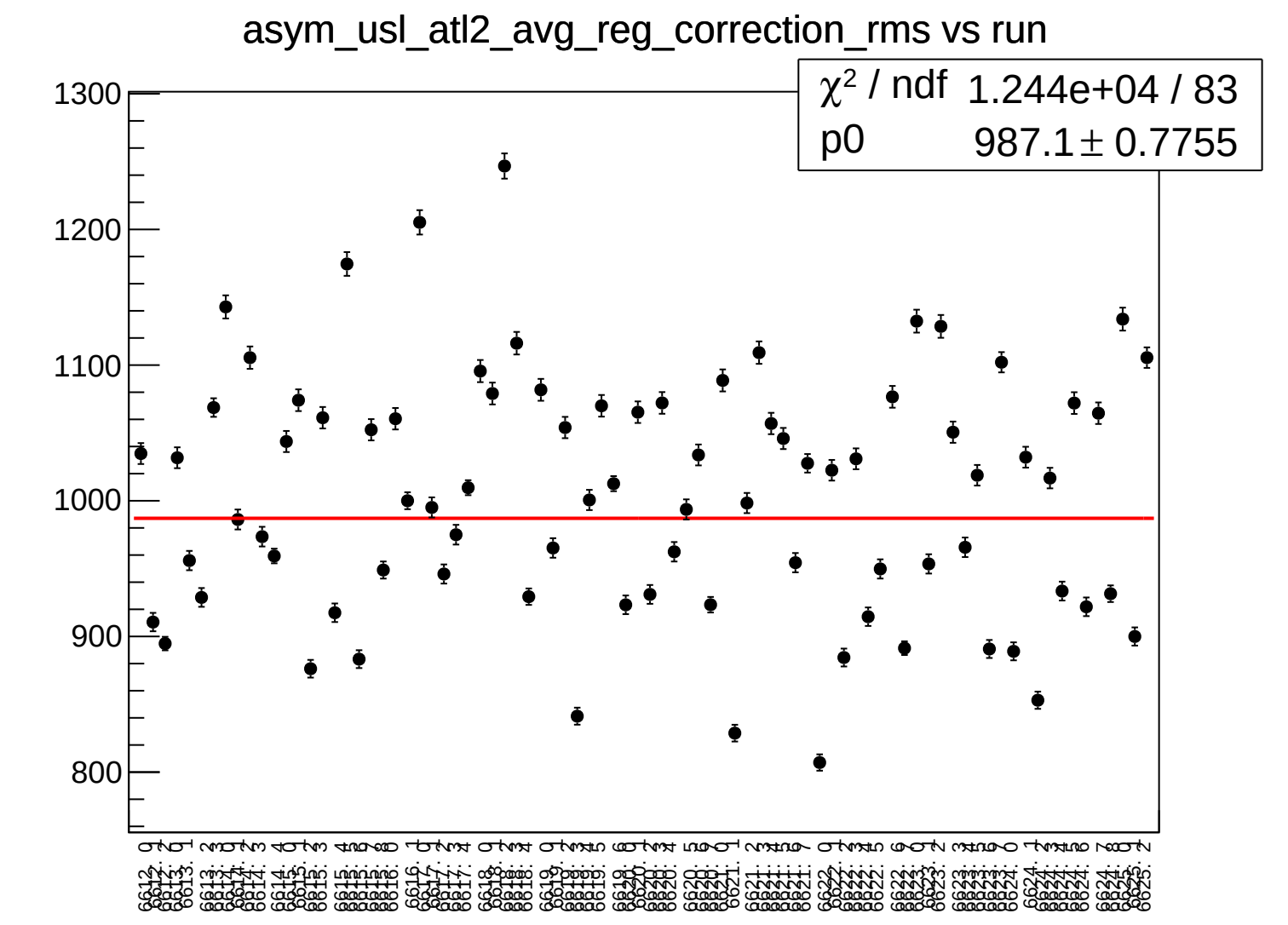

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 72.85 / 83
p0 1073 ± 3853
×10³
150
100
50
0
−50
−100
pull
Entries 84
Mean 603
Std Dev 0
2
1
0
−1
−2

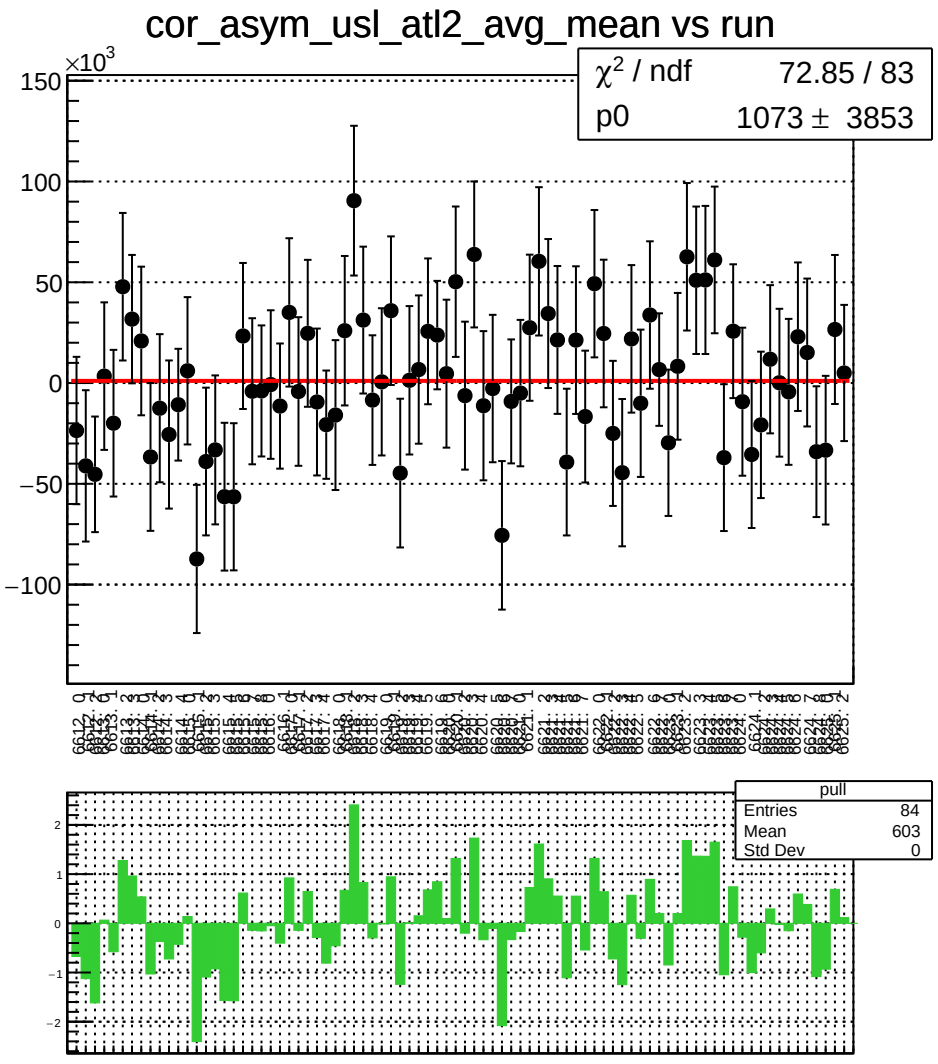

pull1D
Entries 84
Mean 0.008271
Std Dev 0.9312
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

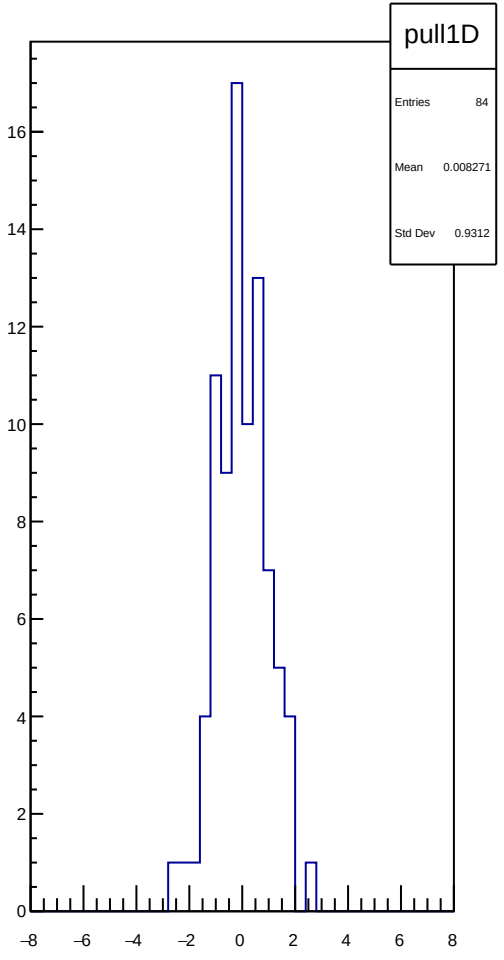

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 143 / 83
p0 3481 ± 2.725
3650
3600
3550
3500
3450
3400

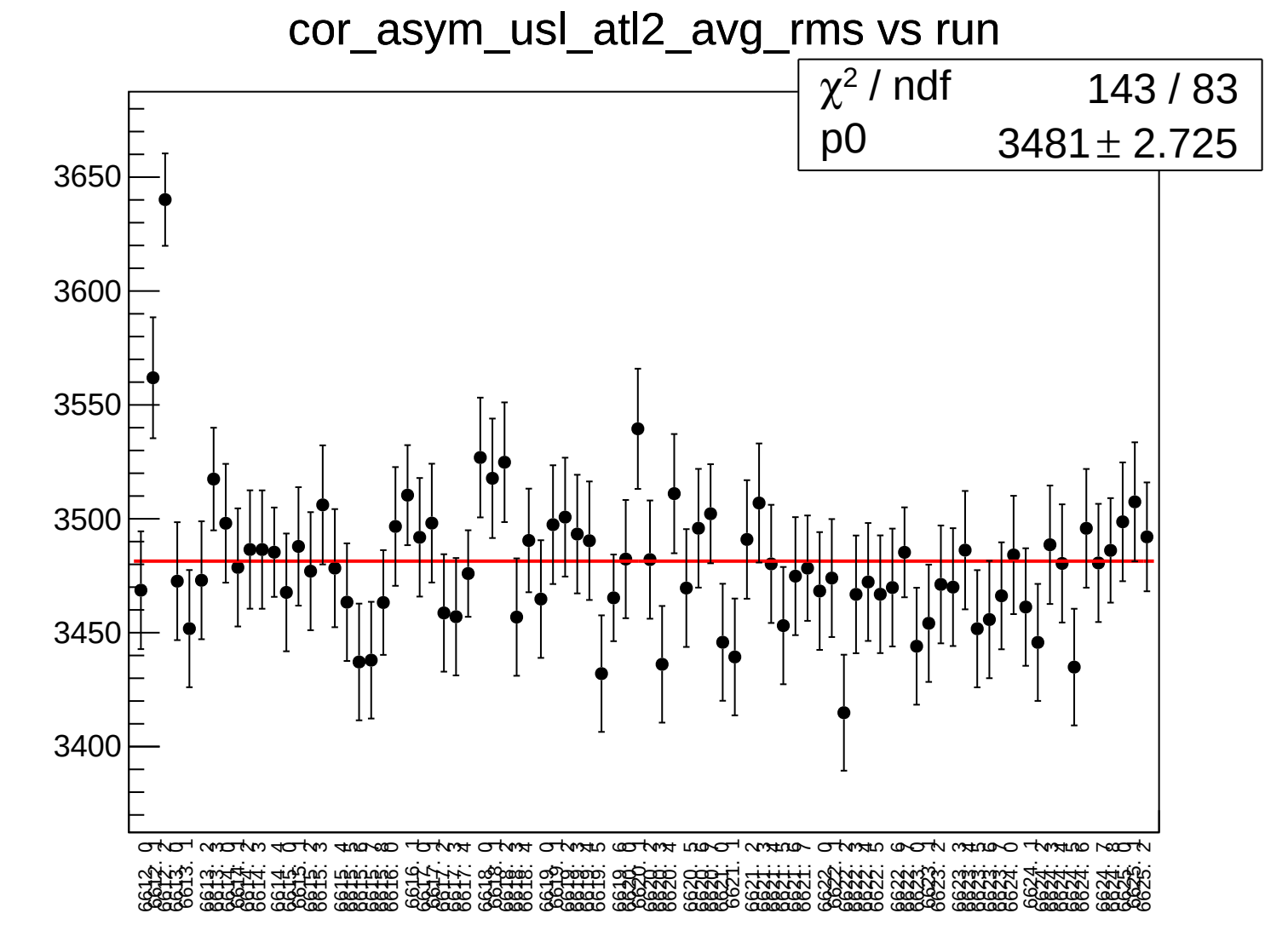

asym_usl_atl2_avg_reg_correction_mean vs run
χ² / ndf 71.56 / 83
p0 −1134 ± 1097
pull
Entries 84
Mean 72.6
Std Dev 38.29

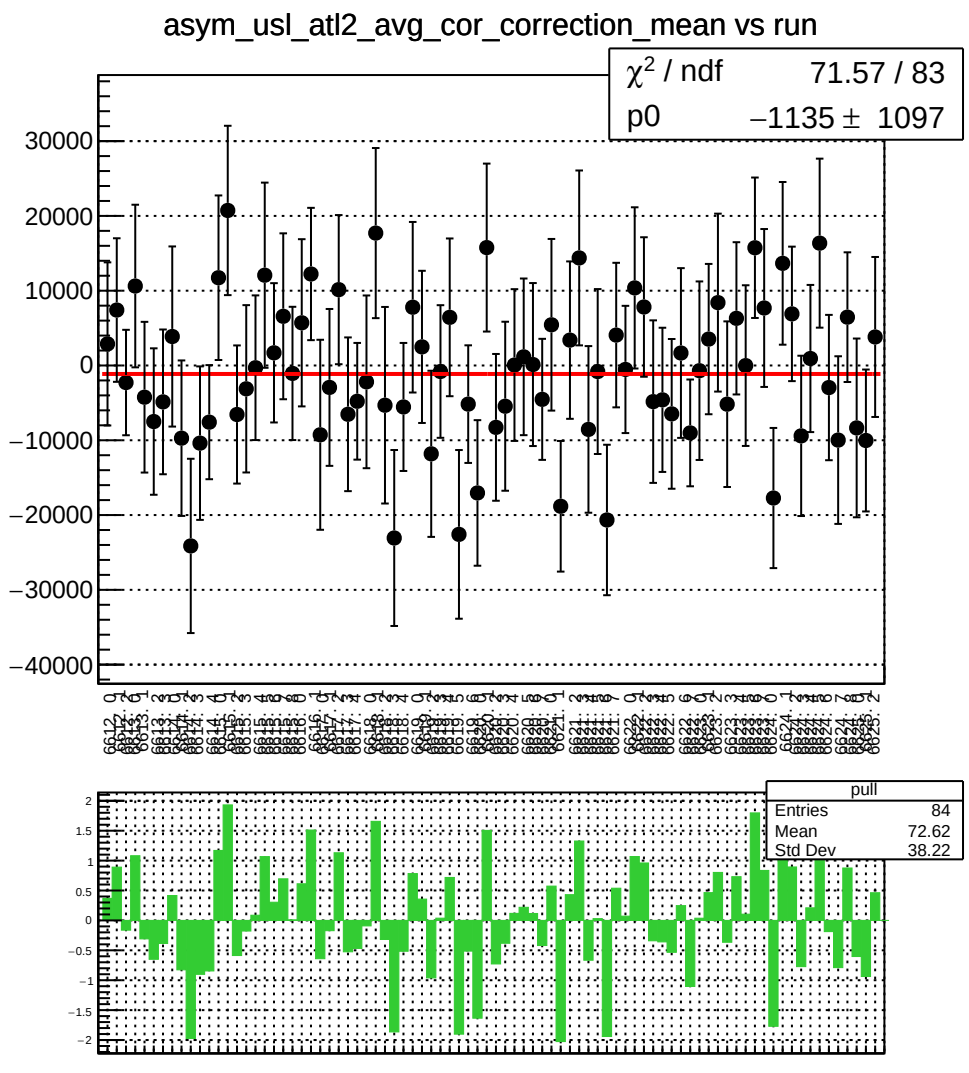

pull1D
Entries 84
Mean 0.02144
Std Dev 0.9227

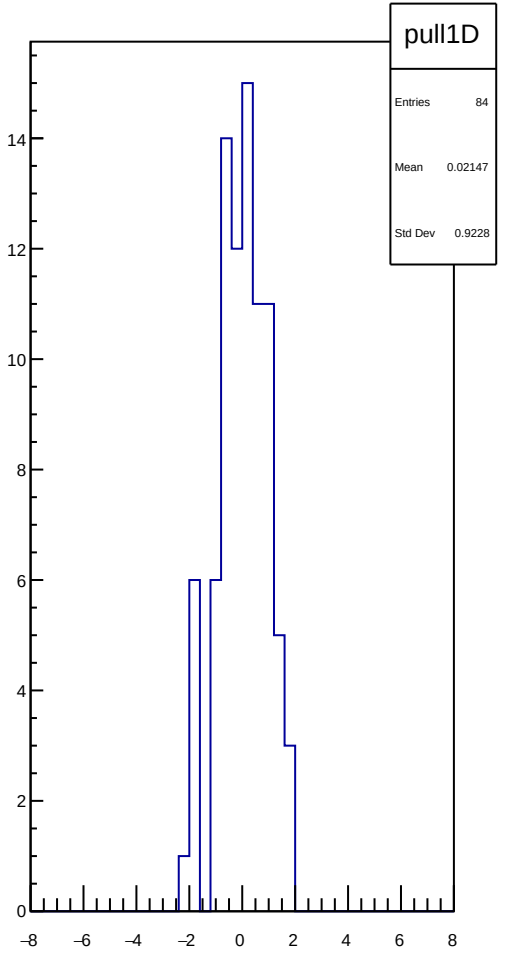

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1.244e+04 / 83
p0 987.1 ± 0.7755
1300
1200
1100
1000
900
800

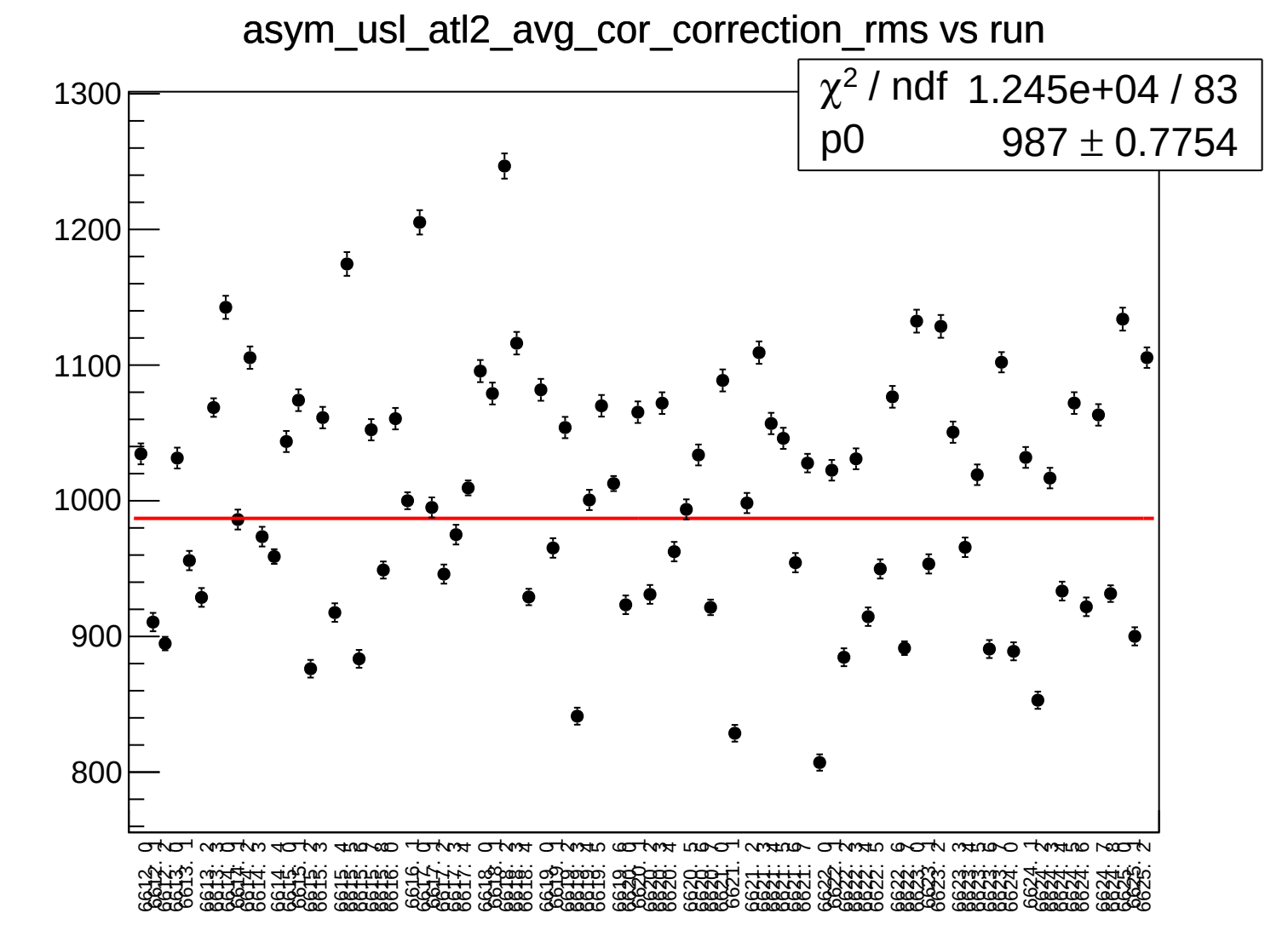

cor_asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 72.85 / 83
p0 1073 ± 3853
150
100
50
0
−50
−100
pull
Entries 84
Mean 603
Std Dev 0
2
1
0
−1
−2

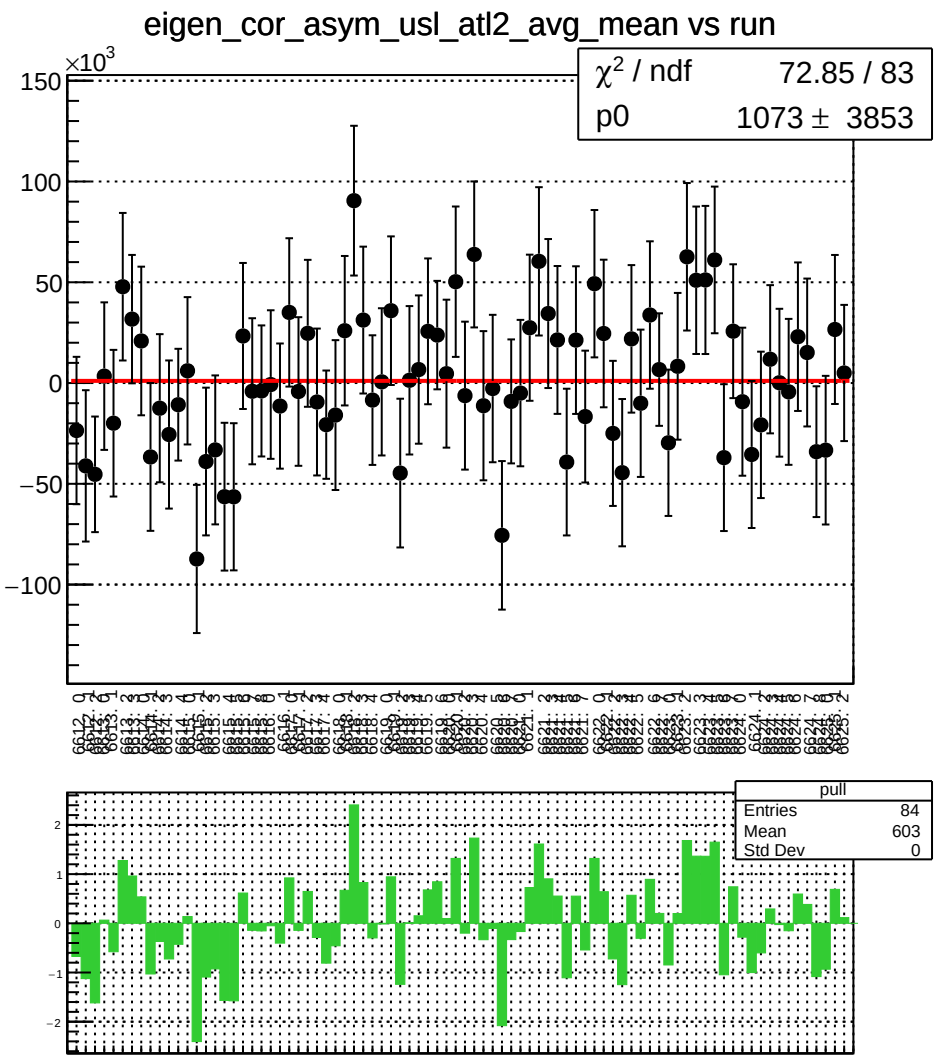

pull1D
Entries 84
Mean 0.008271
Std Dev 0.9312
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

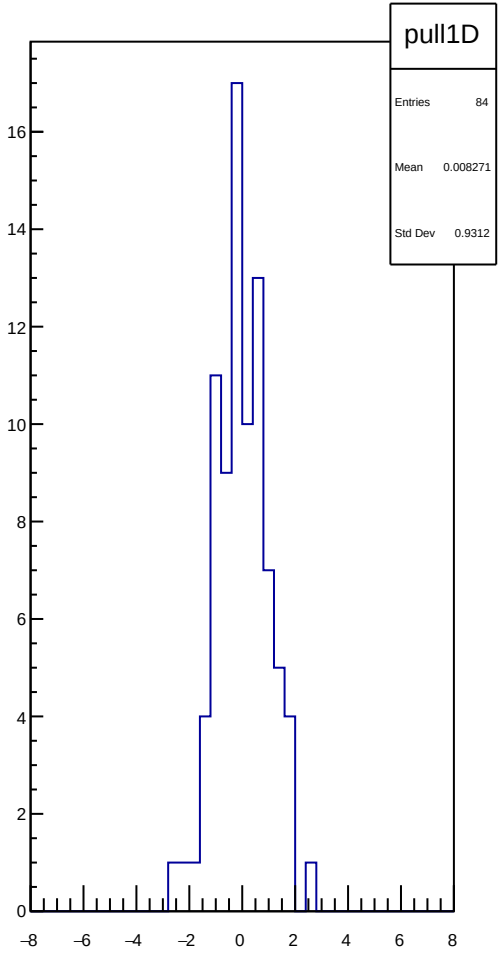

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 143 / 83
p0 3481 ± 2.725
3650
3600
3550
3500
3450
3400

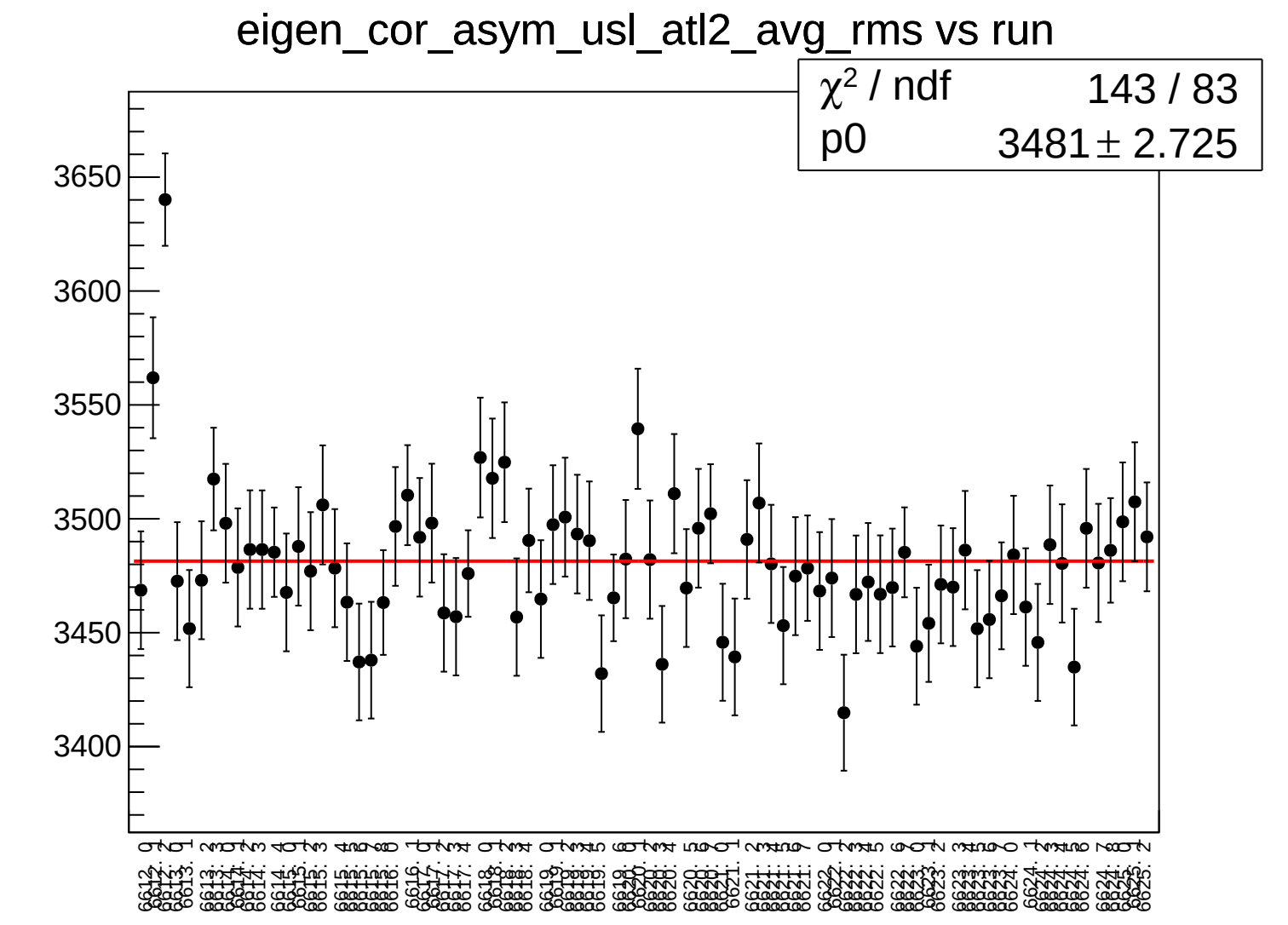

asym_usl_atl2_avg_cor_correction_mean vs run
χ² / ndf 71.57 / 83
p0 −1135 ± 1097
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 72.62
Std Dev 38.22
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

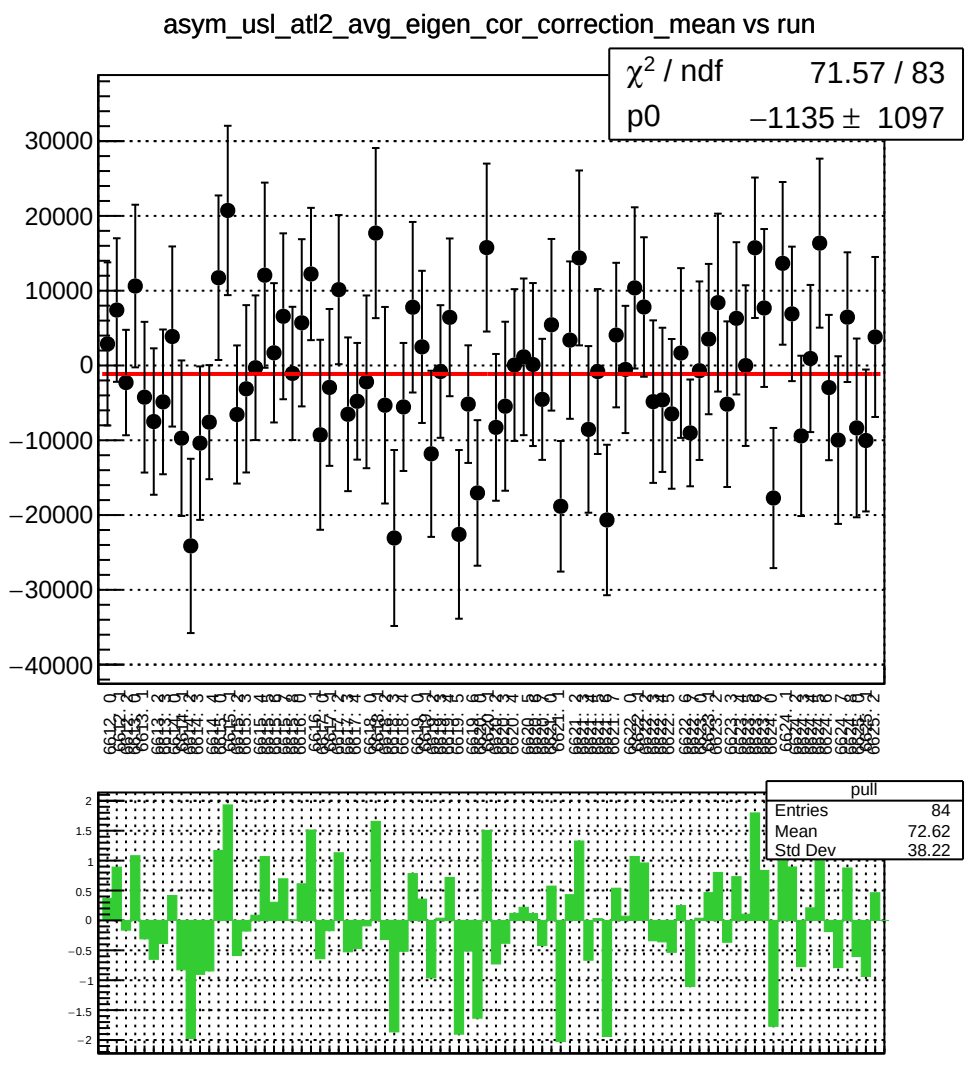

pull1D
Entries 84
Mean 0.02147
Std Dev 0.9228
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

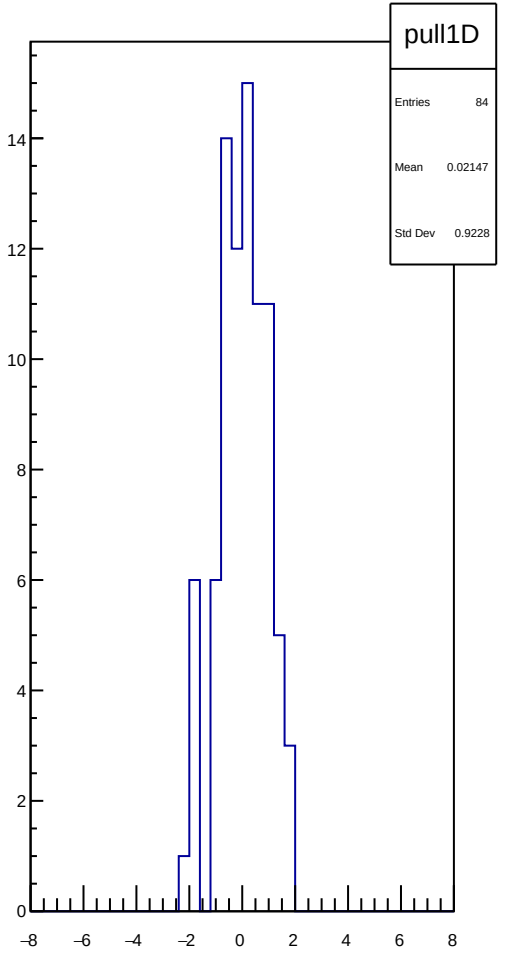

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1.245e+04 / 83
p0 987 ± 0.7754
1300
1200
1100
1000
900
800

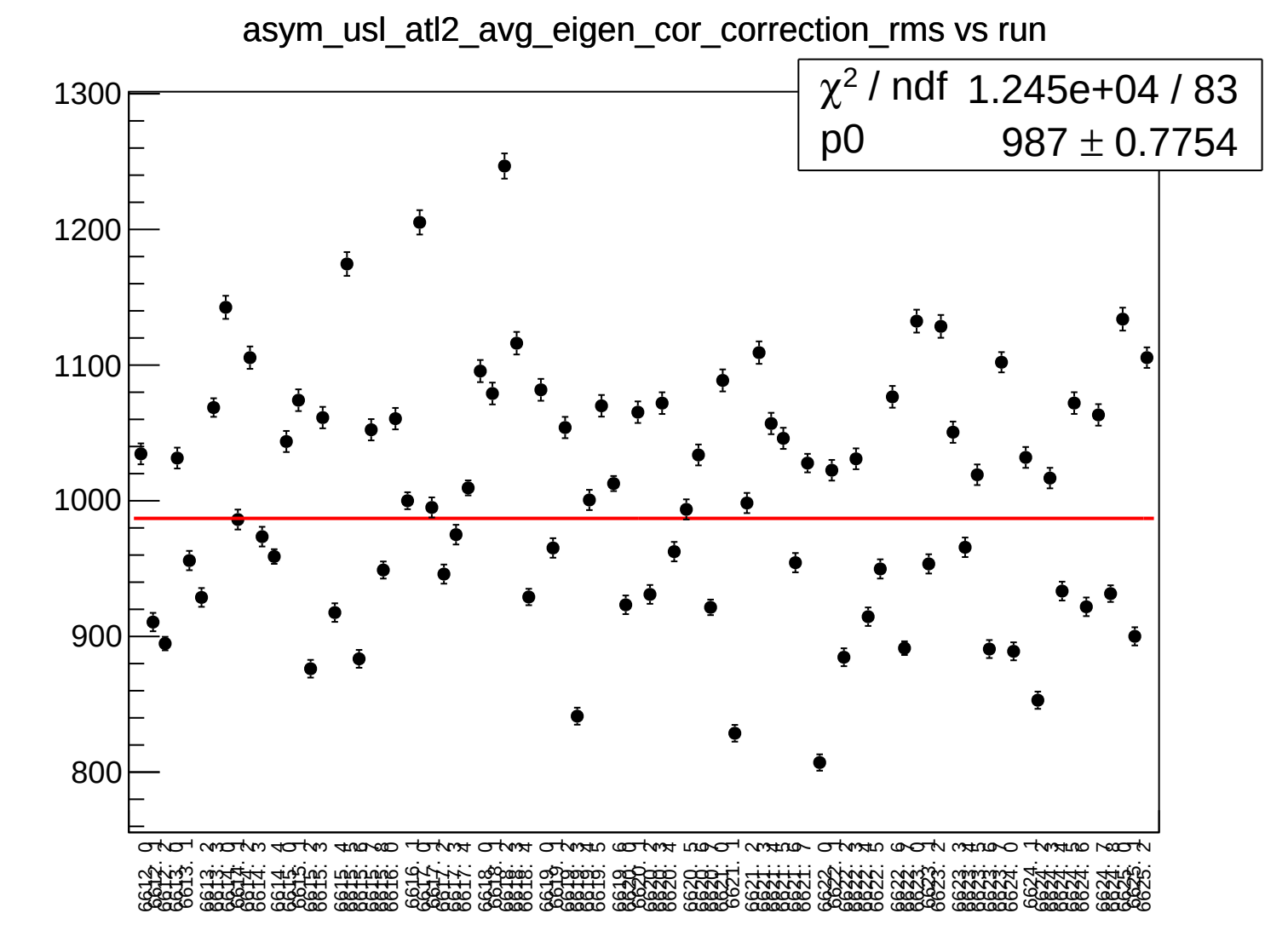

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 72.85 / 83
p0 1073 ± 3853
pull
Entries 84
Mean 603
Std Dev 0

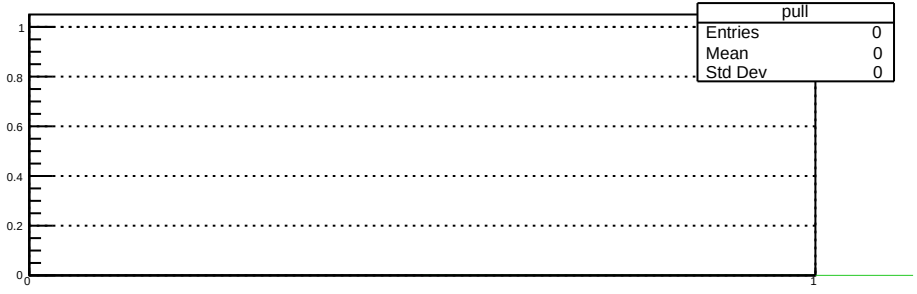

pull1D
Entries 84
Mean 0.008271
Std Dev 0.9312

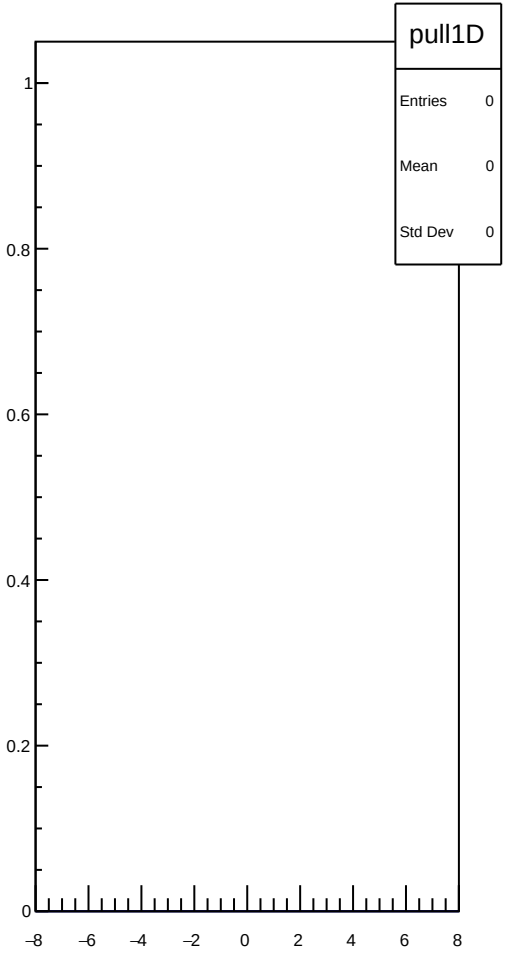

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 143 / 83
p0 3481 ± 2.725
3650
3600
3550
3500
3450
3400

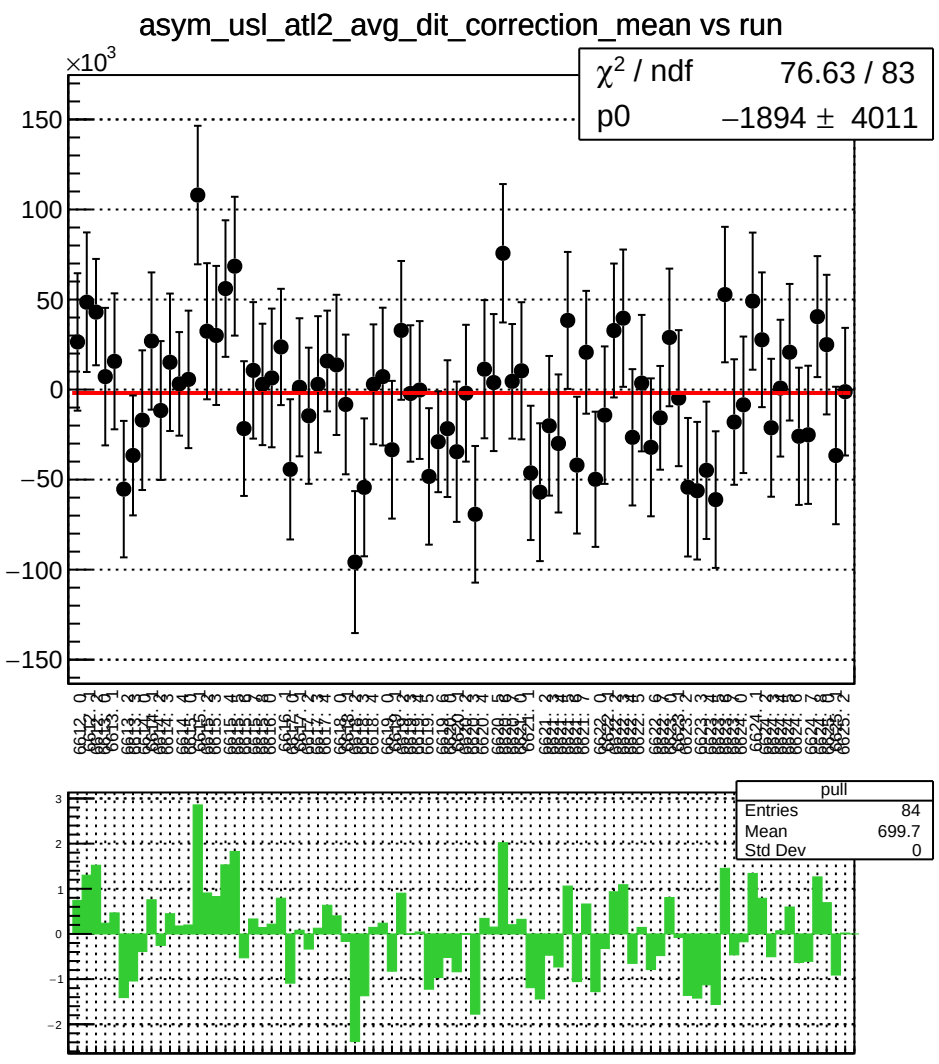

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
χ² / ndf 71.57 / 83
p0 −1135 ± 1097
pull
Entries 84
Mean 72.62
Std Dev 38.22

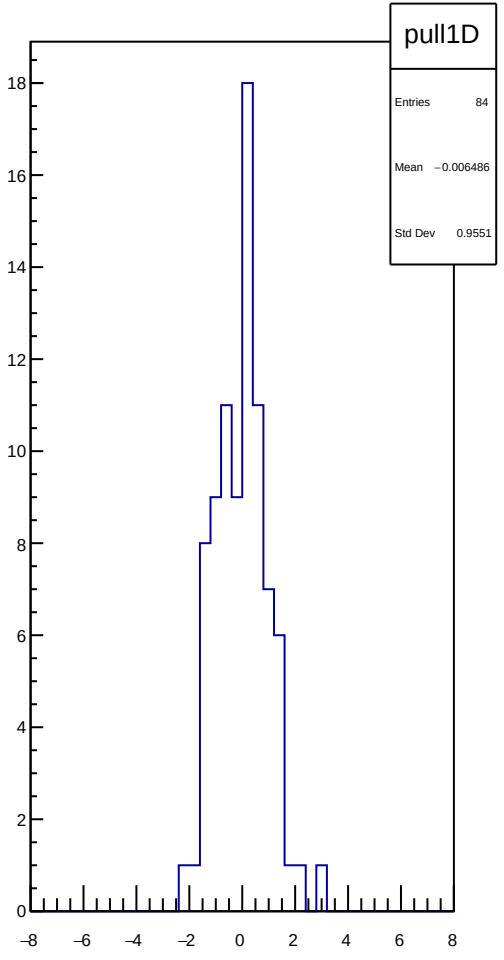

pull1D
Entries 84
Mean 0.02147
Std Dev 0.9228

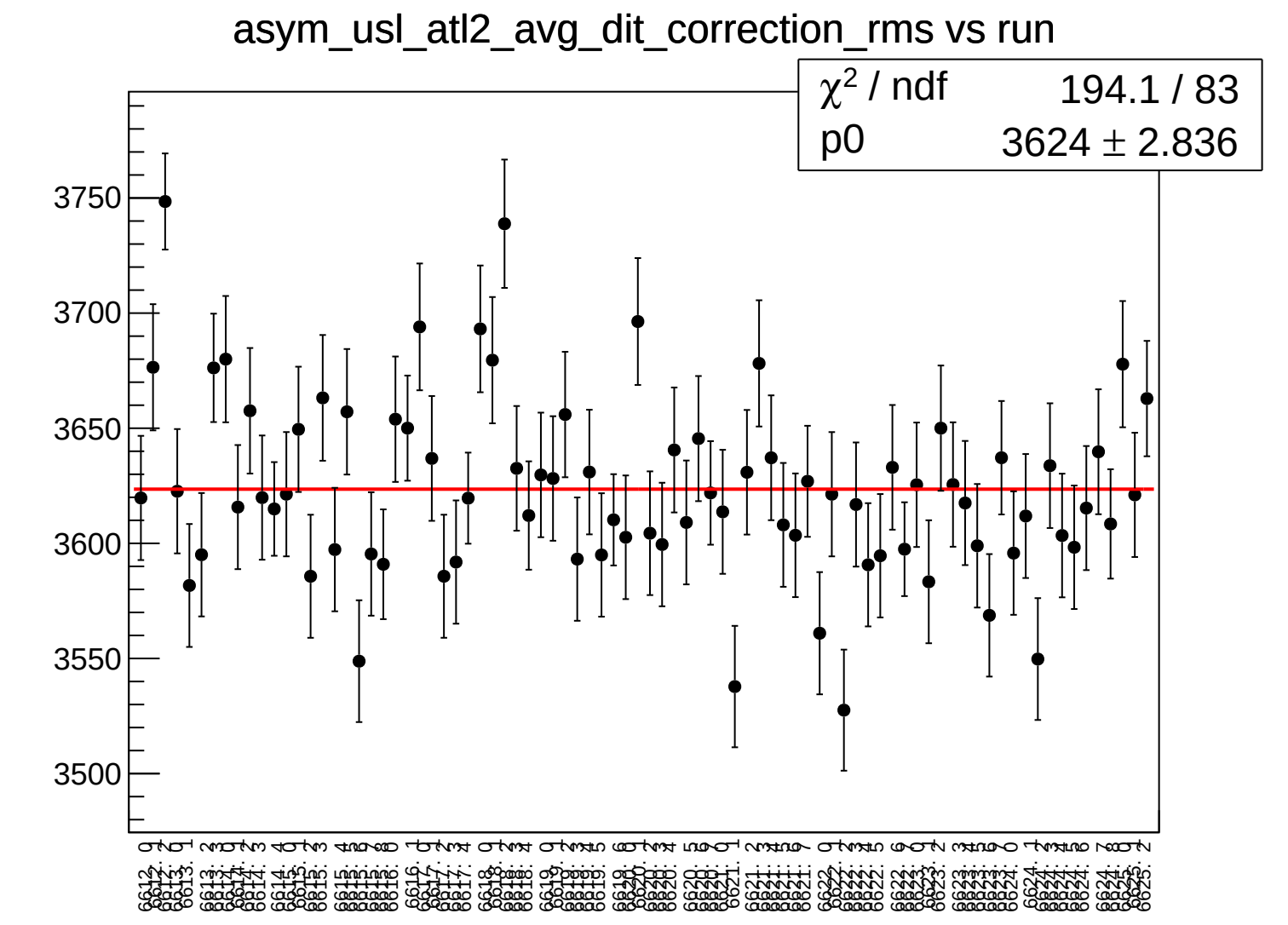

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.245e+04 / 83
p0 987 ± 0.7754
1300
1200
1100
1000
900
800

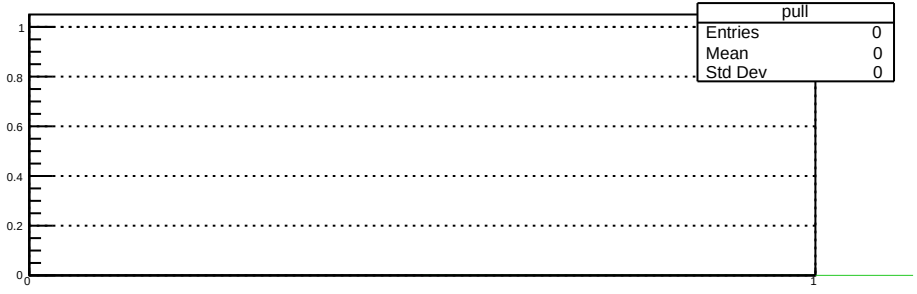

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

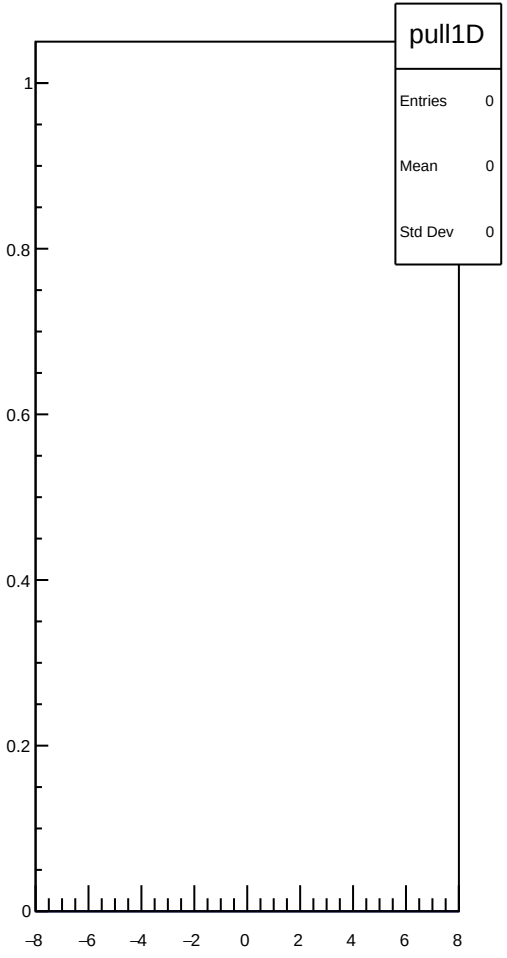

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

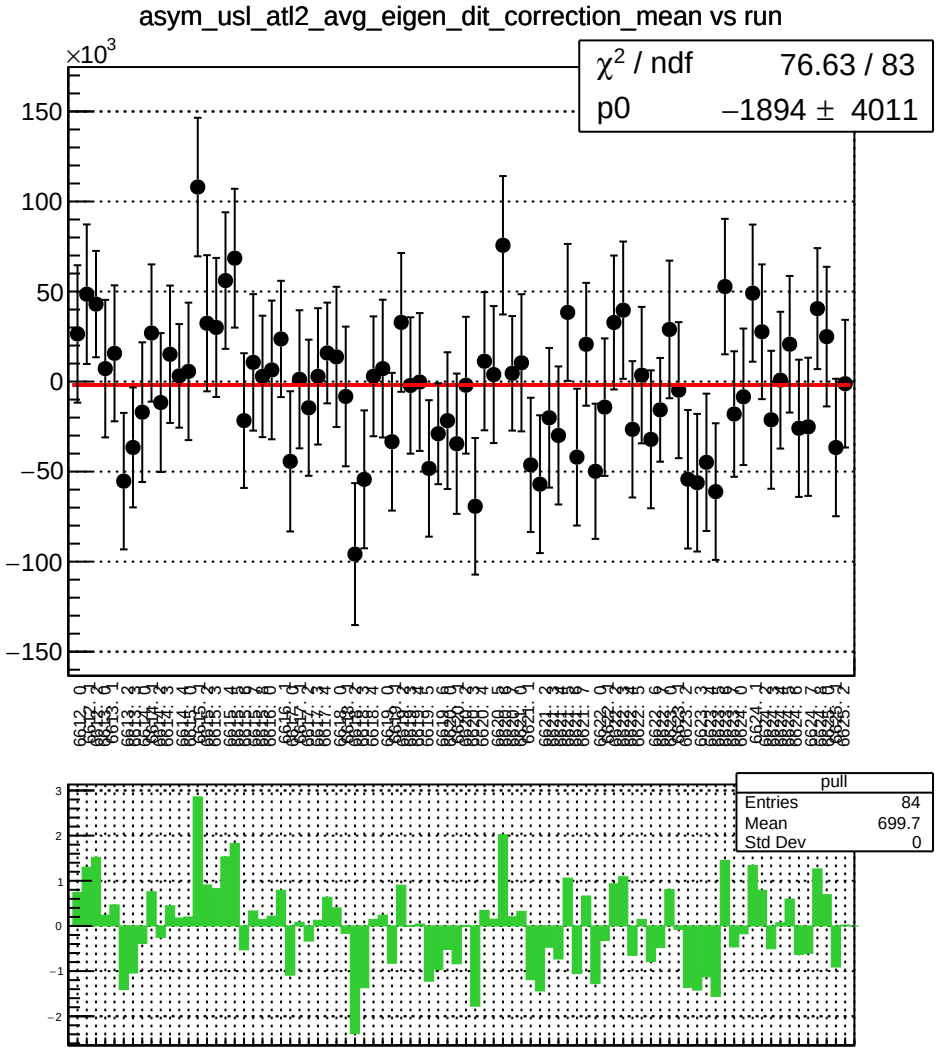

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 76.63 / 83
p0 −1894 ± 4011
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 699.7
Std Dev 0
3
2
1
0
−1
−2

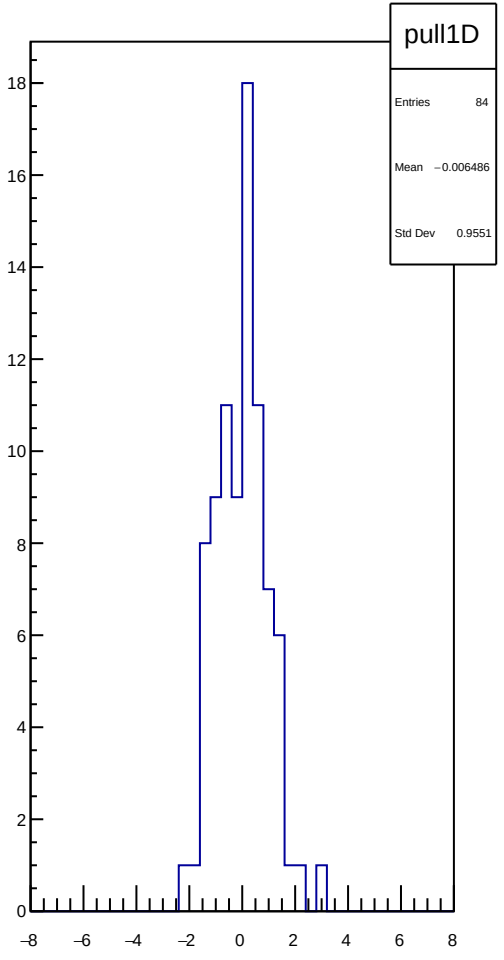

pull1D
Entries 84
Mean −0.006486
Std Dev 0.9551
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

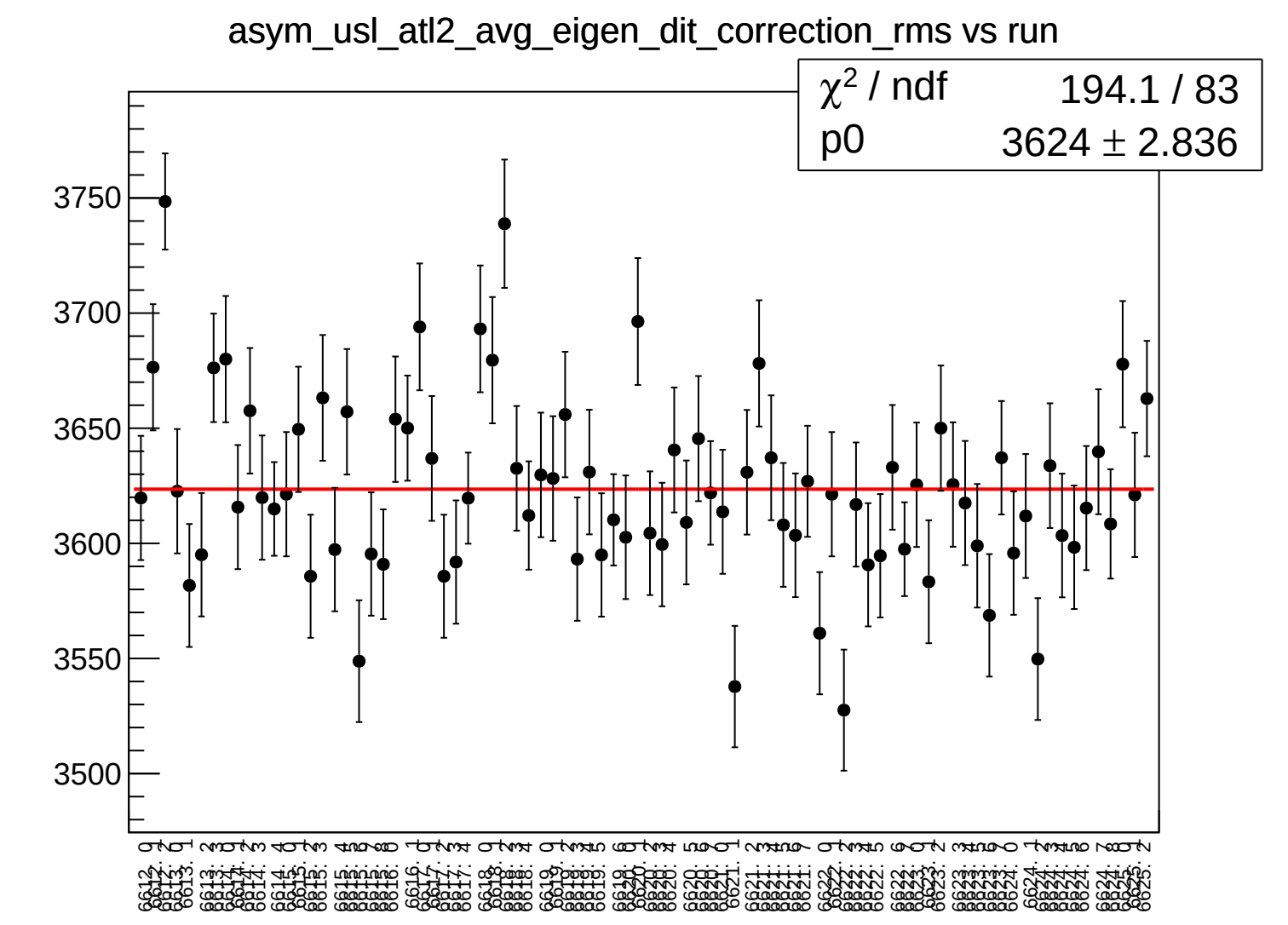

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 194.1 / 83
p0 3624 ± 2.836
3750
3700
3650
3600
3550
3500

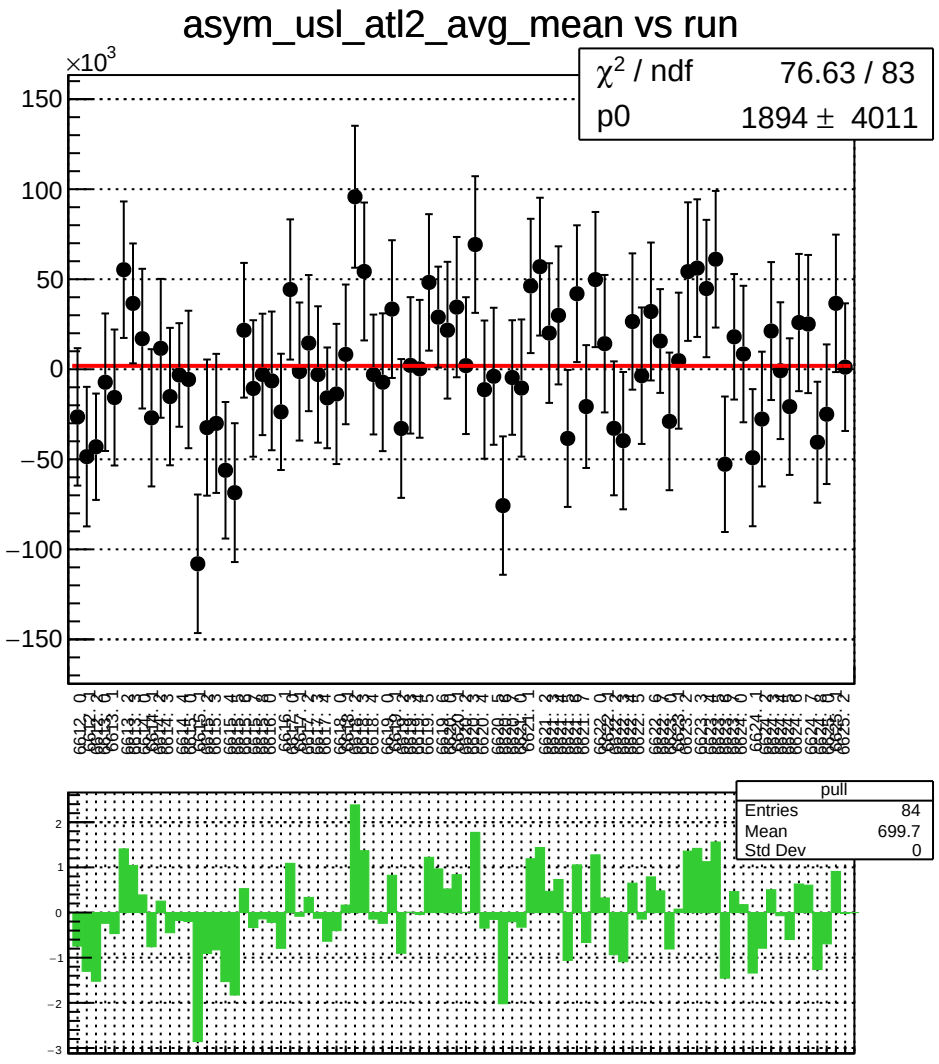

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

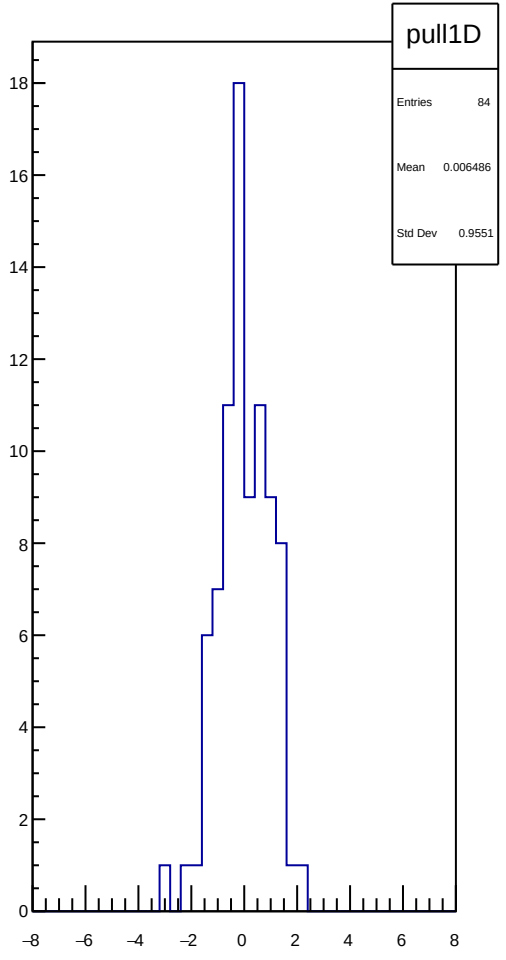

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

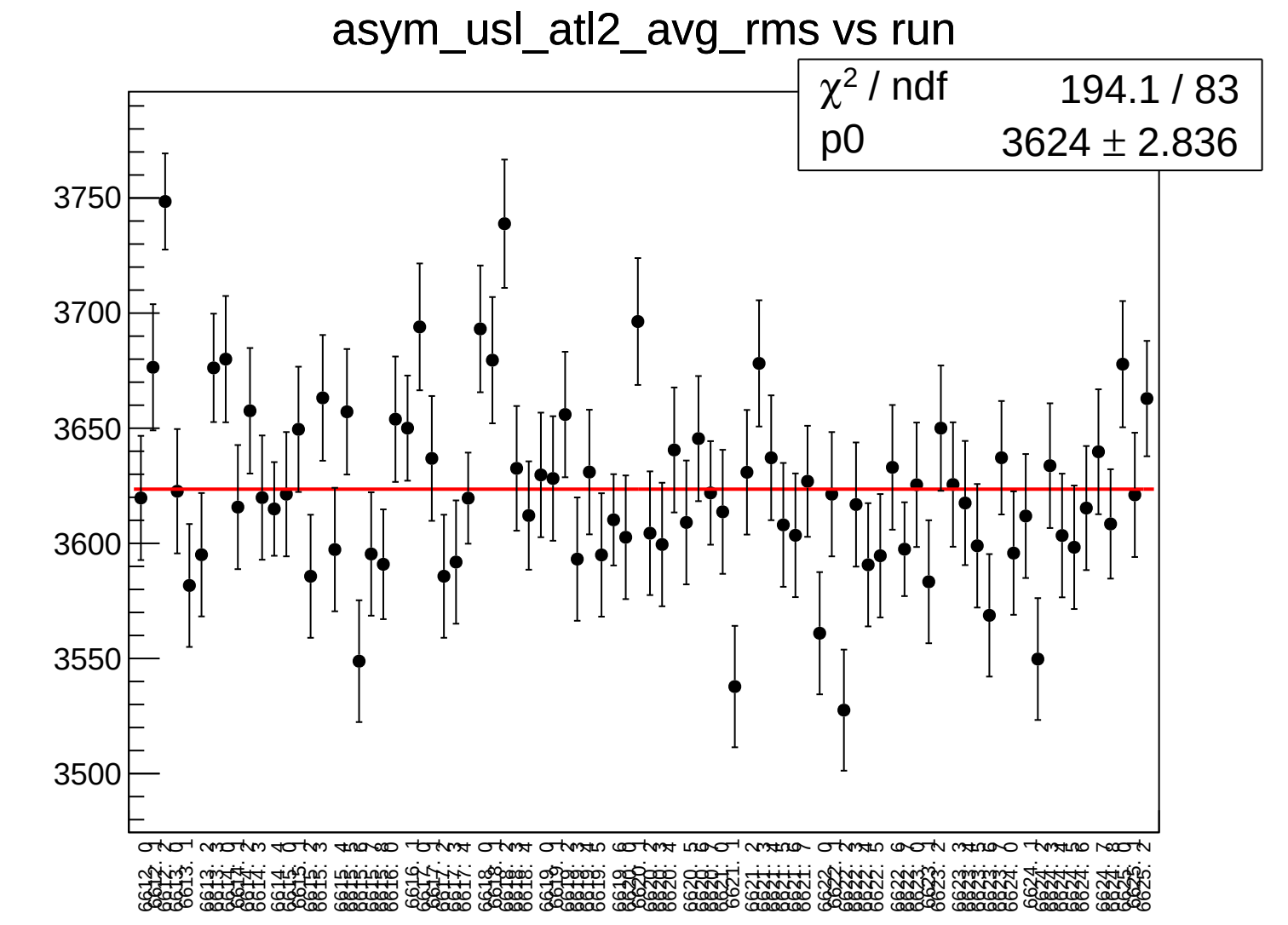

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 76.63 / 83
p0 −1894 ± 4011
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 699.7
Std Dev 0
3
2
1
0
−1
−2

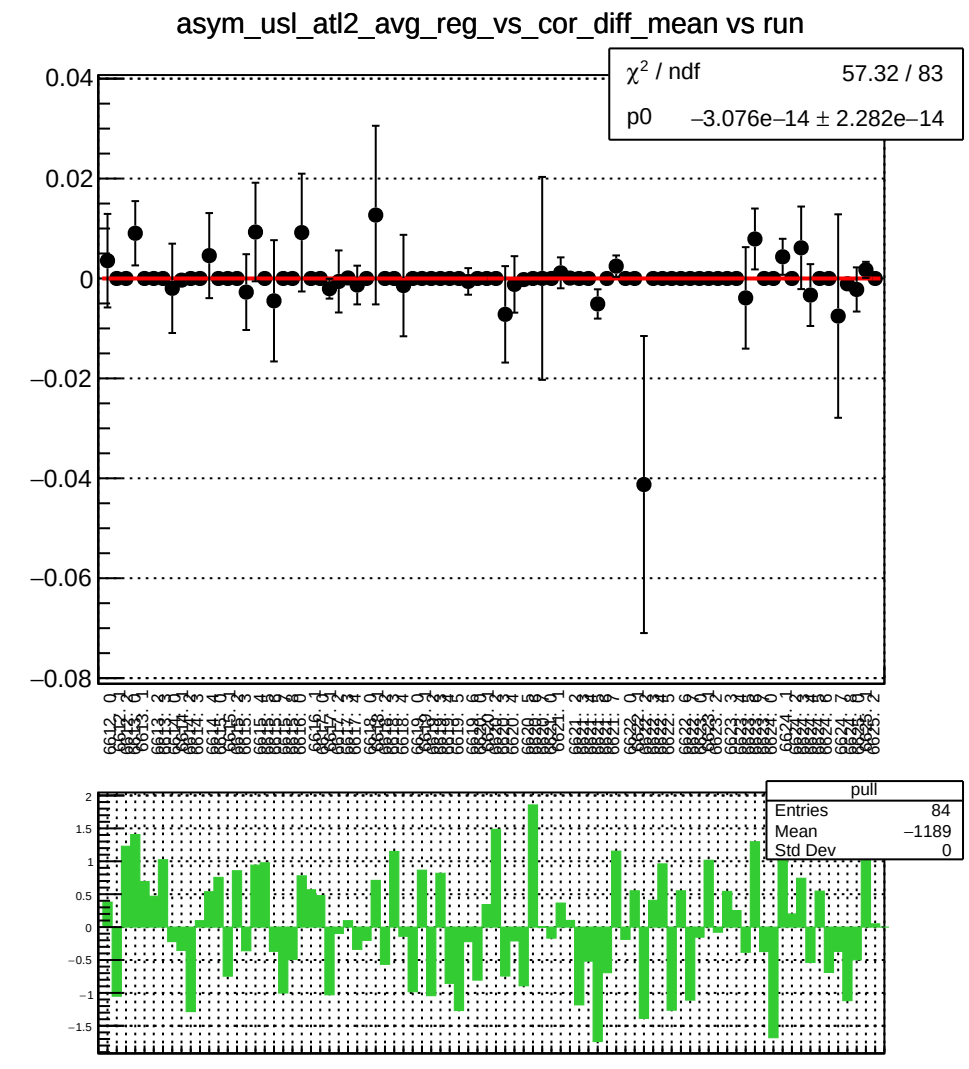

pull1D
Entries 84
Mean −0.006486
Std Dev 0.9551
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

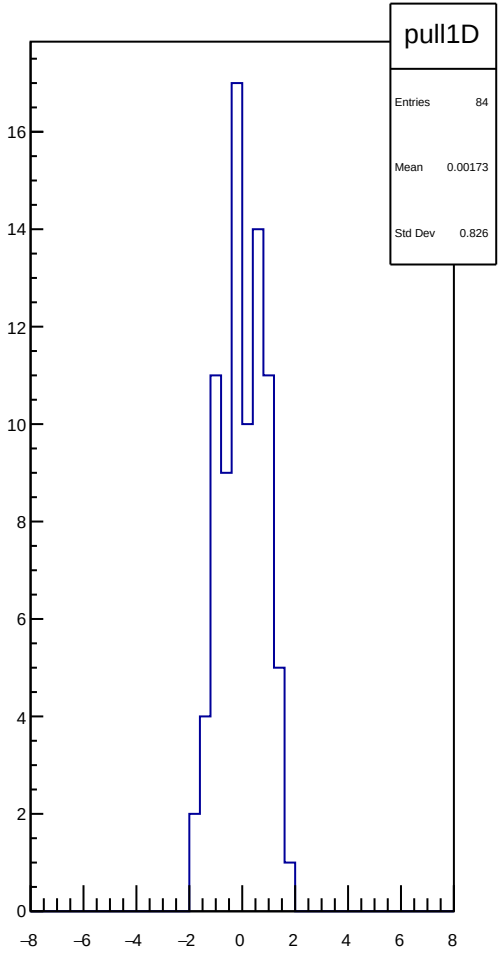

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 194.1 / 83
p0 3624 ± 2.836
3750
3700
3650
3600
3550
3500

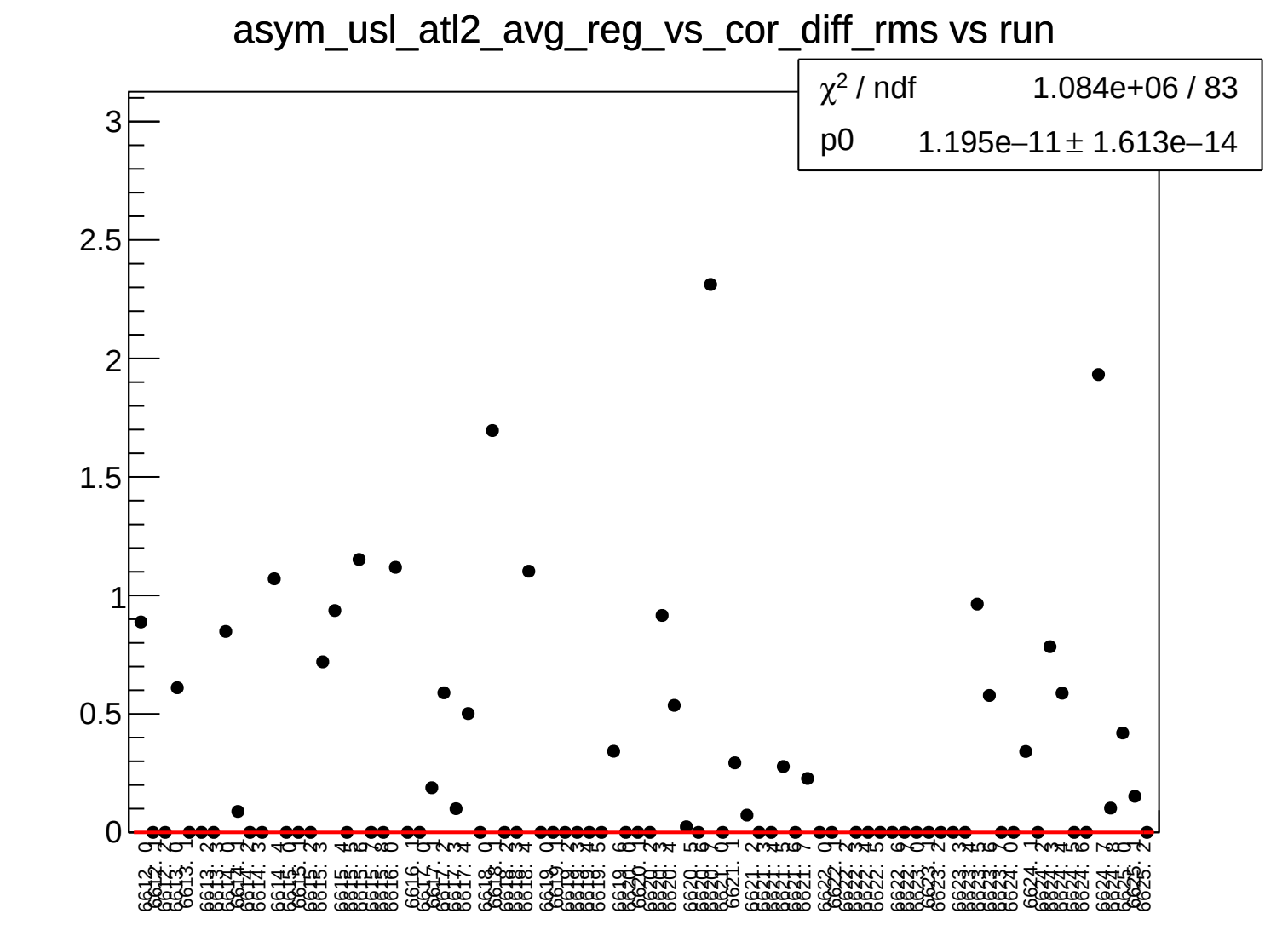

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 76.63 / 83
p0 1894 ± 4011
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 699.7
Std Dev 0
2
1
0
−1
−2
−3

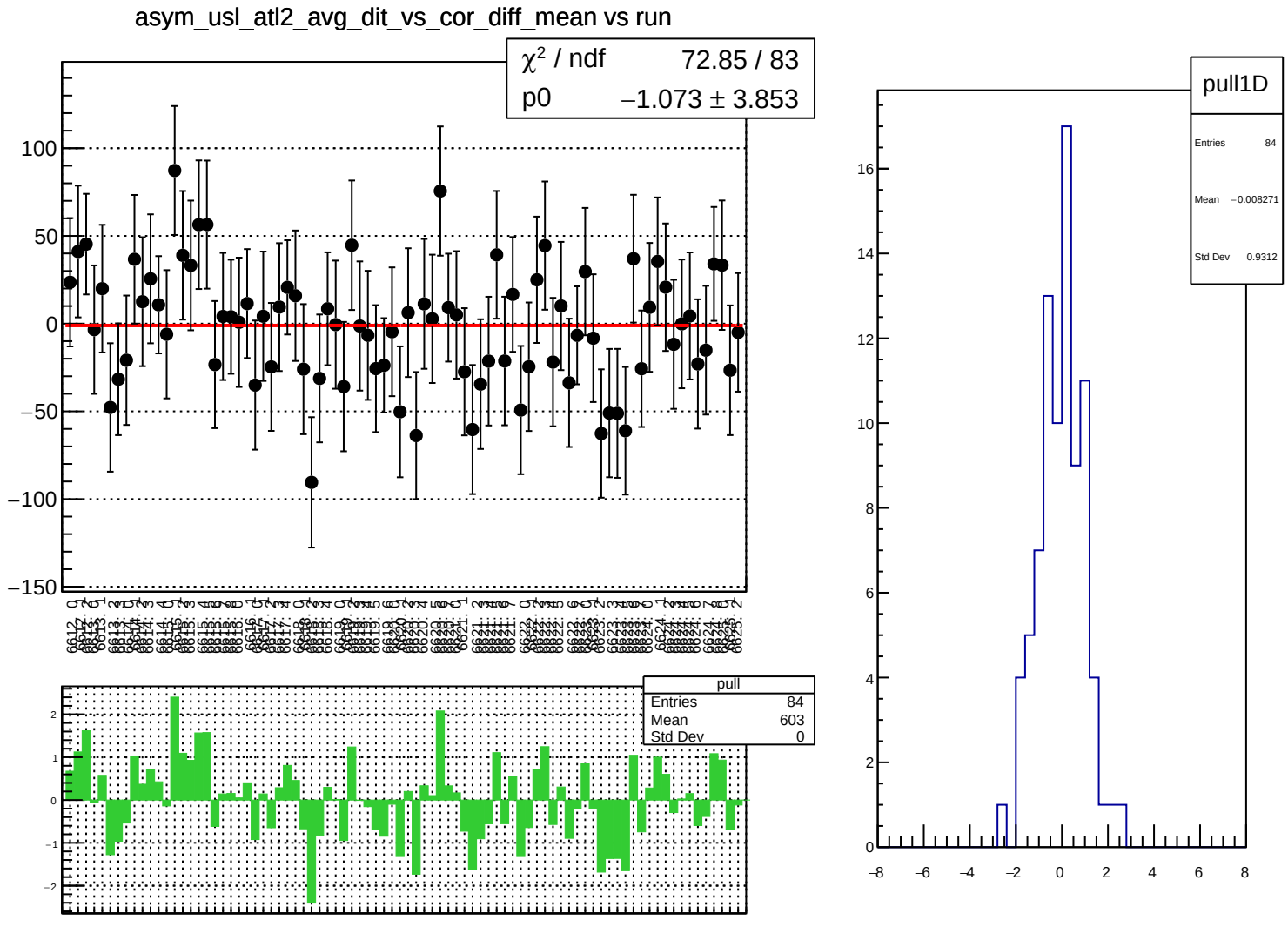

pull1D
Entries 84
Mean 0.006486
Std Dev 0.9551
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

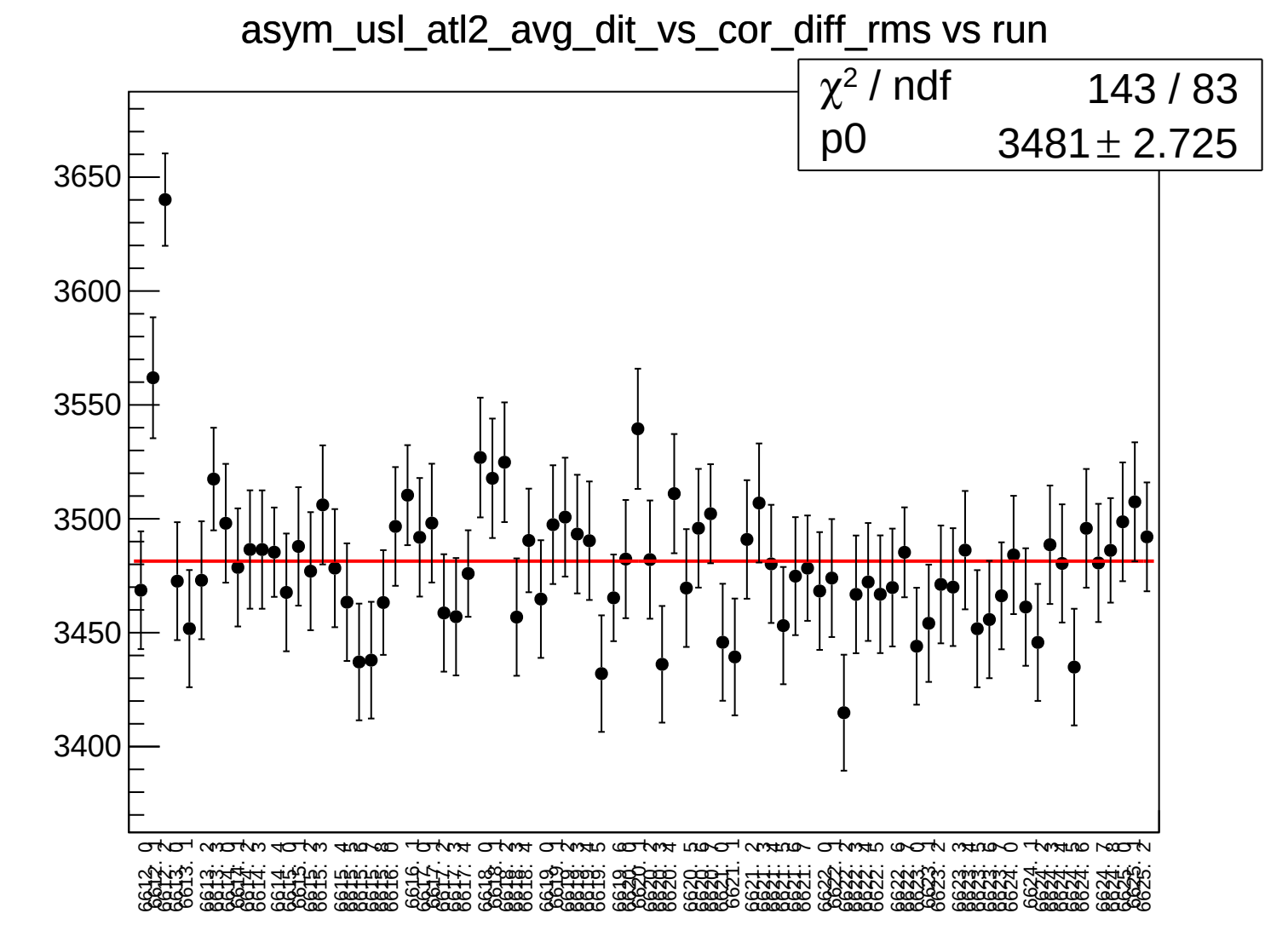

asym_usl_atl2_avg_rms vs run
χ² / ndf 194.1 / 83
p0 3624 ± 2.836
3750
3700
3650
3600
3550
3500

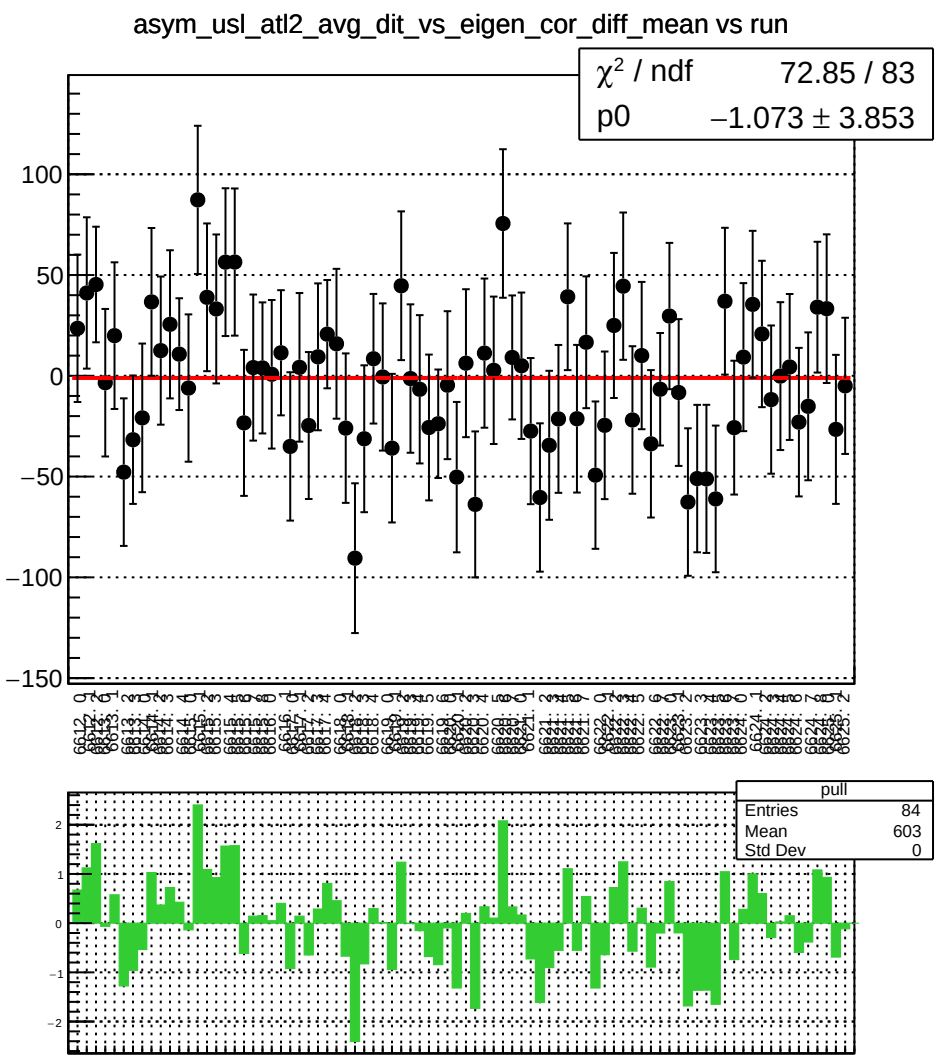

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 57.32 / 83
p0 −3.076e−14 ± 2.282e−14
pull
Entries 84
Mean −1189
Std Dev 0

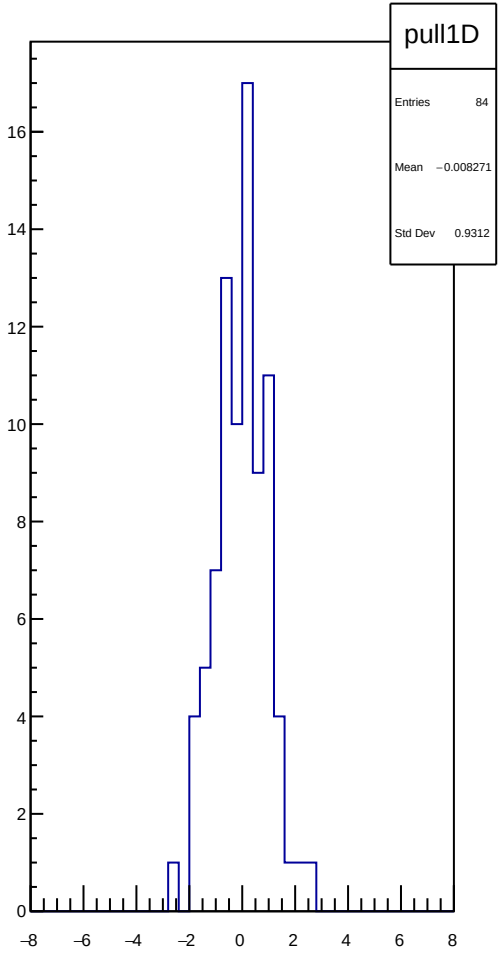

pull1D
Entries 84
Mean 0.00173
Std Dev 0.826

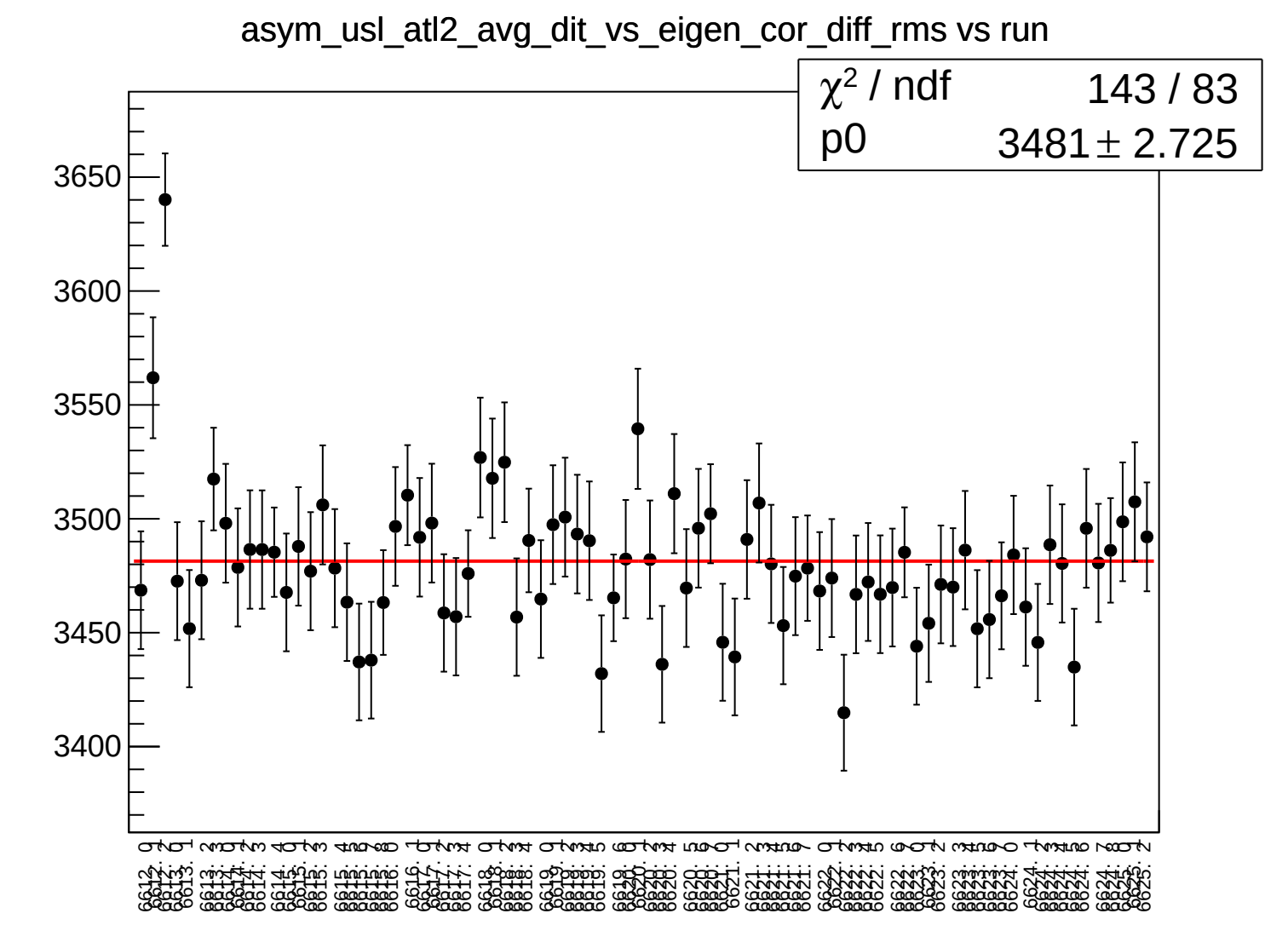

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.084e+06 / 83
p0 1.195e−11 ± 1.613e−14
3
2.5
2
1.5
1
0.5
0

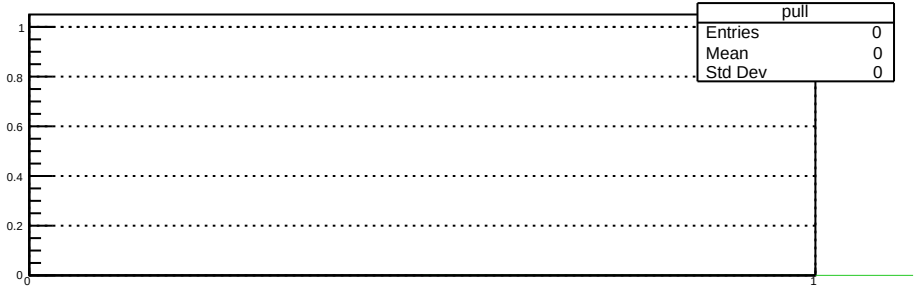

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.85 / 83
p0 −1.073 ± 3.853
pull
Entries 84
Mean 603
Std Dev 0
pull1D
Entries 84
Mean −0.008271
Std Dev 0.9312

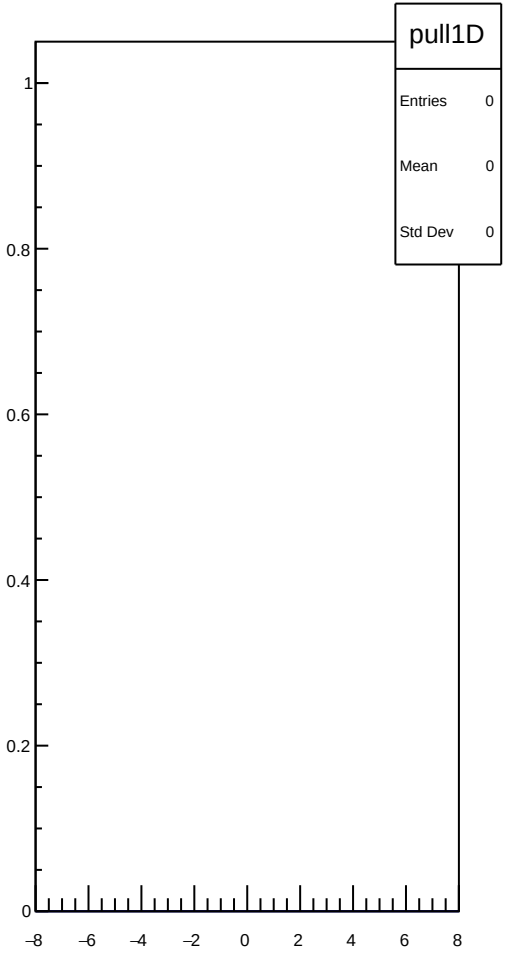

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 143 / 83
p0 3481 ± 2.725
3650
3600
3550
3500
3450
3400

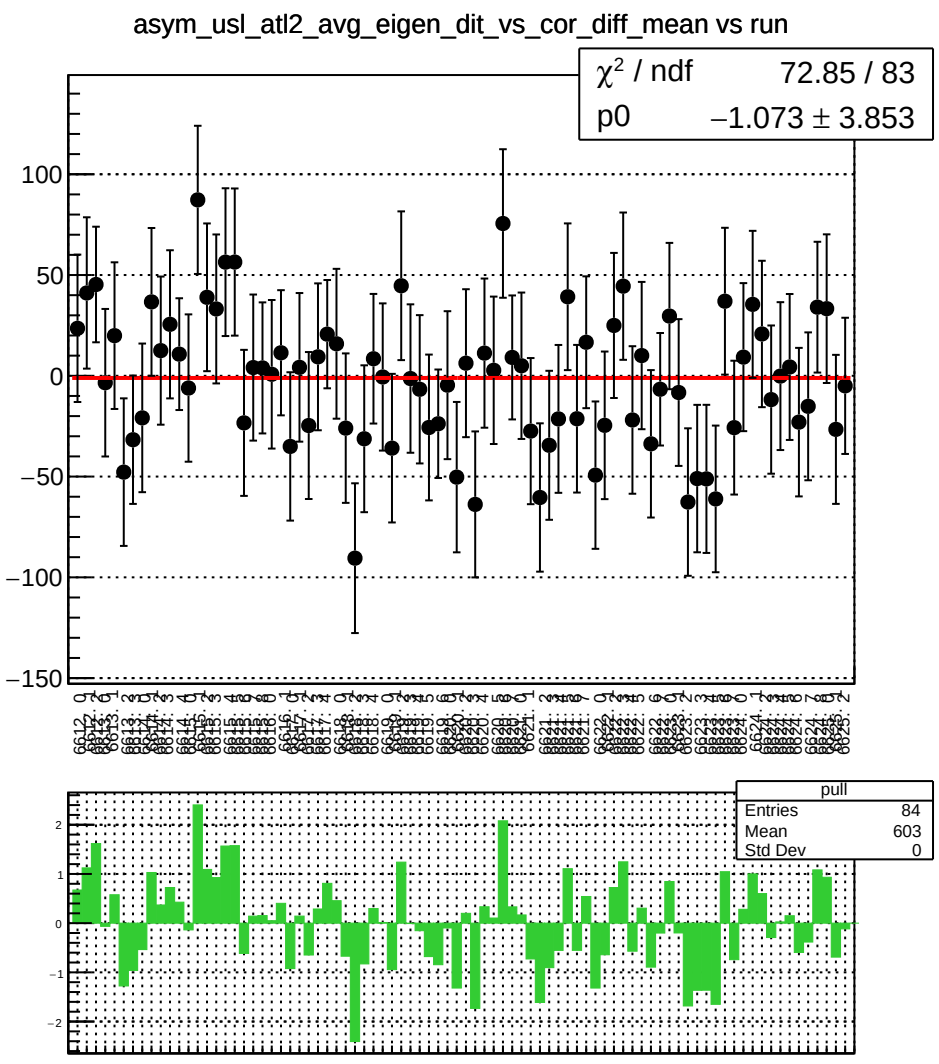

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.85 / 83
p0 −1.073 ± 3.853
pull
Entries 84
Mean 603
Std Dev 0

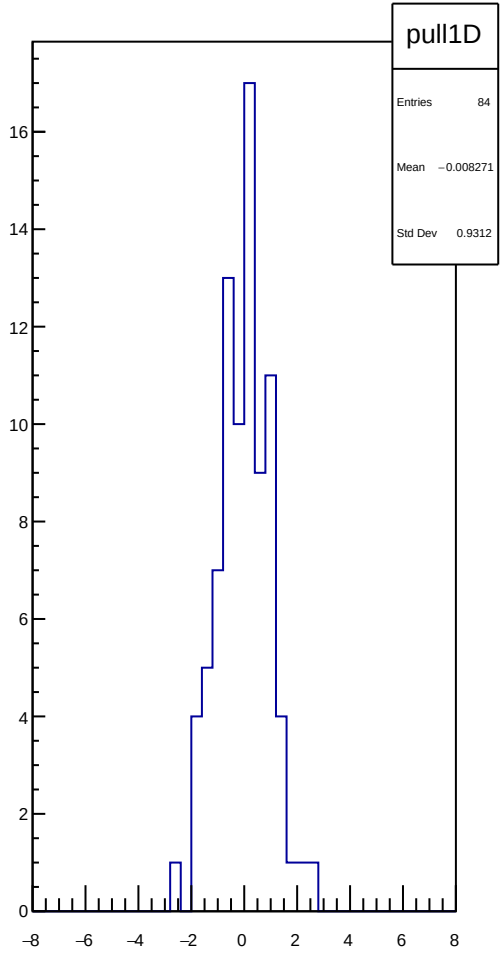

pull1D
Entries 84
Mean −0.008271
Std Dev 0.9312

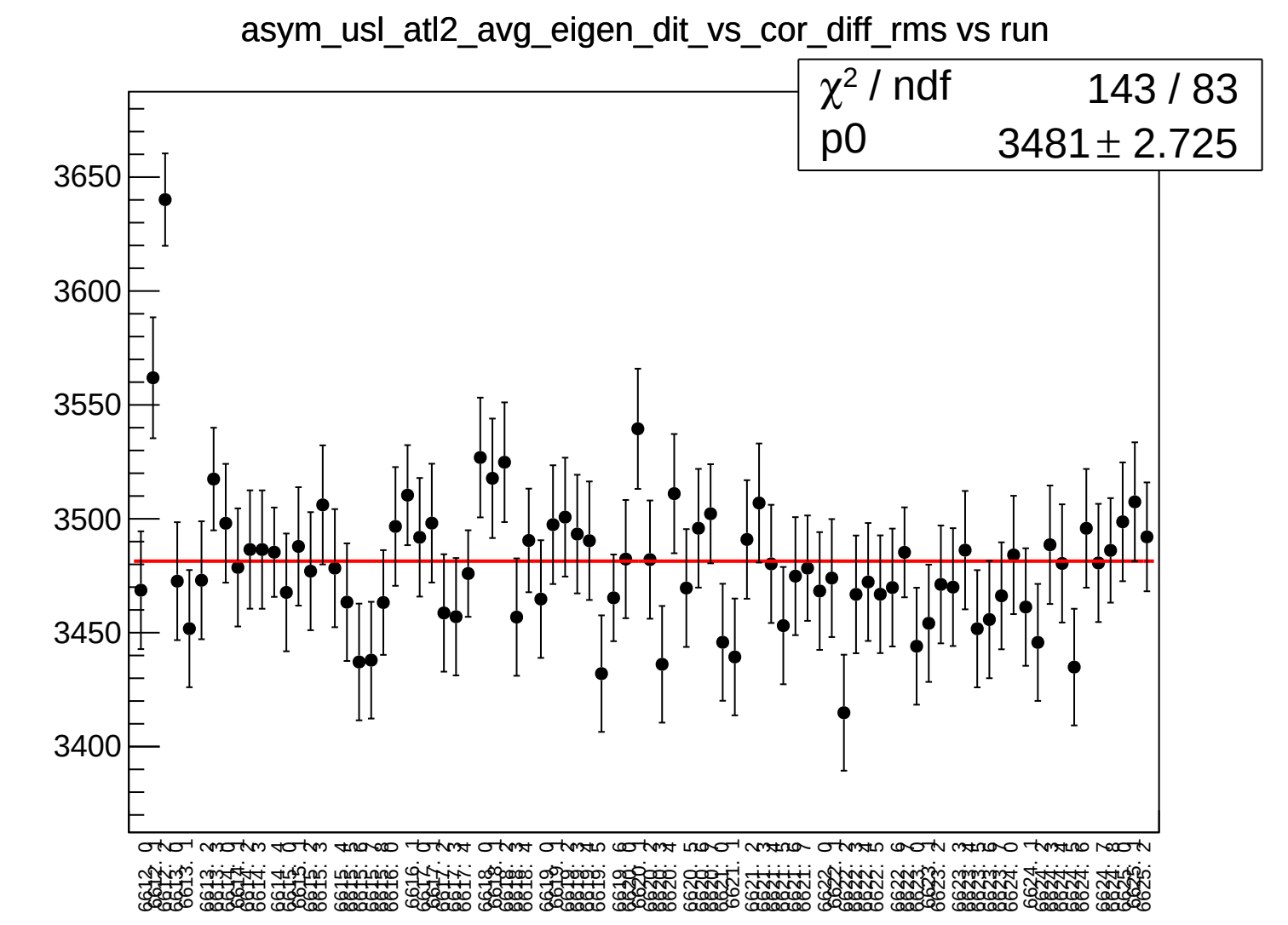

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 143 / 83
p0 3481 ± 2.725
3650
3600
3550
3500
3450
3400

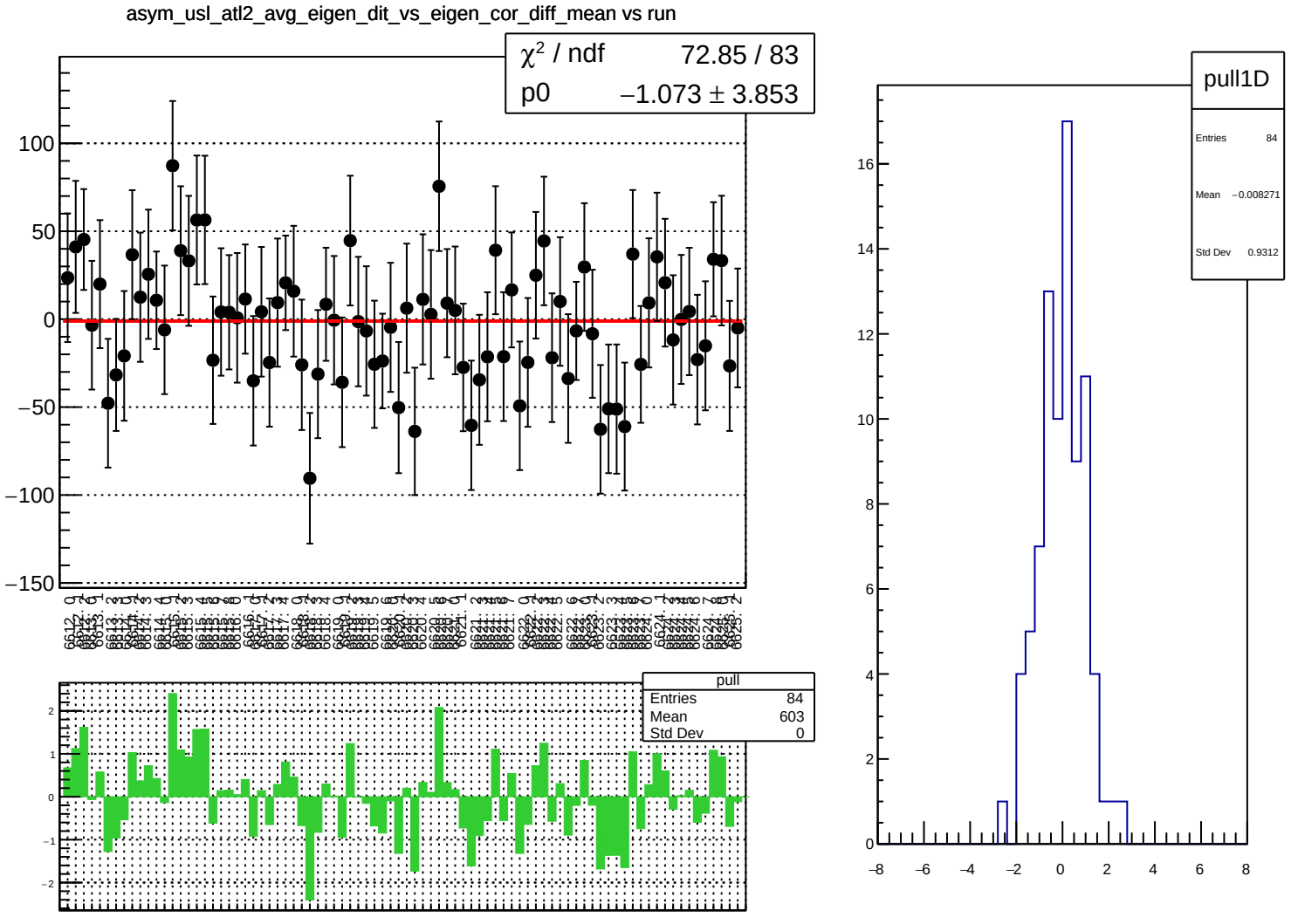

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

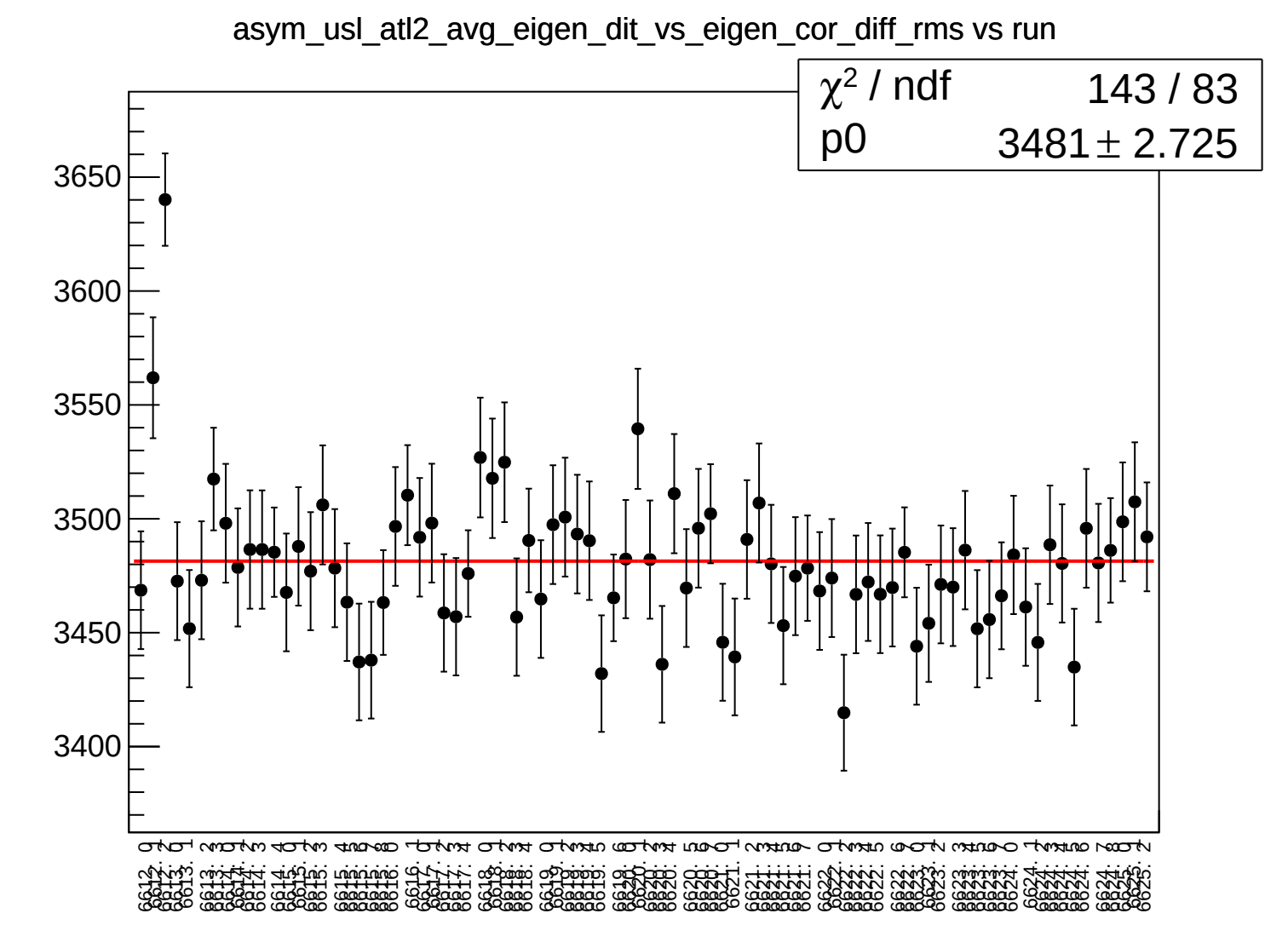

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

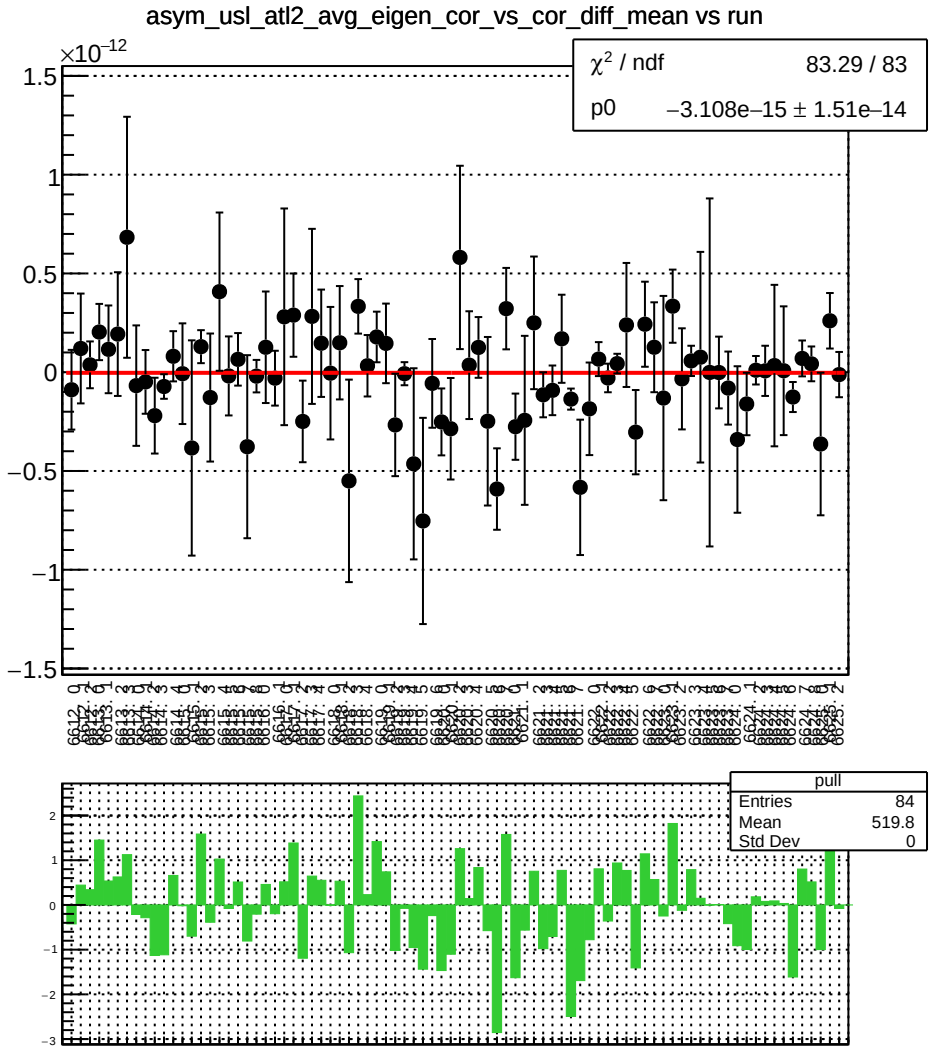

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.85 / 83
p0 −1.073 ± 3.853
100
50
0
−50
−100
−150
pull
Entries 84
Mean 603
Std Dev 0
2
1
0
−1
−2

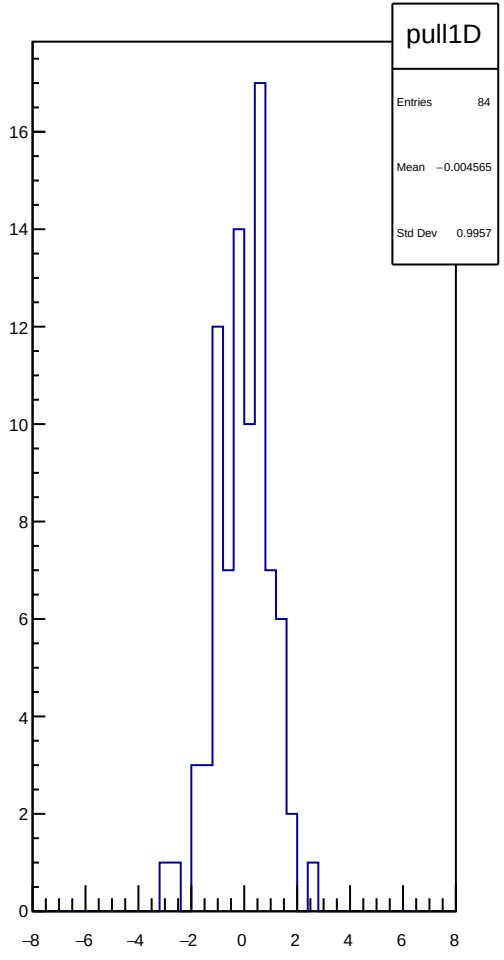

pull1D
Entries 84
Mean −0.008271
Std Dev 0.9312
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

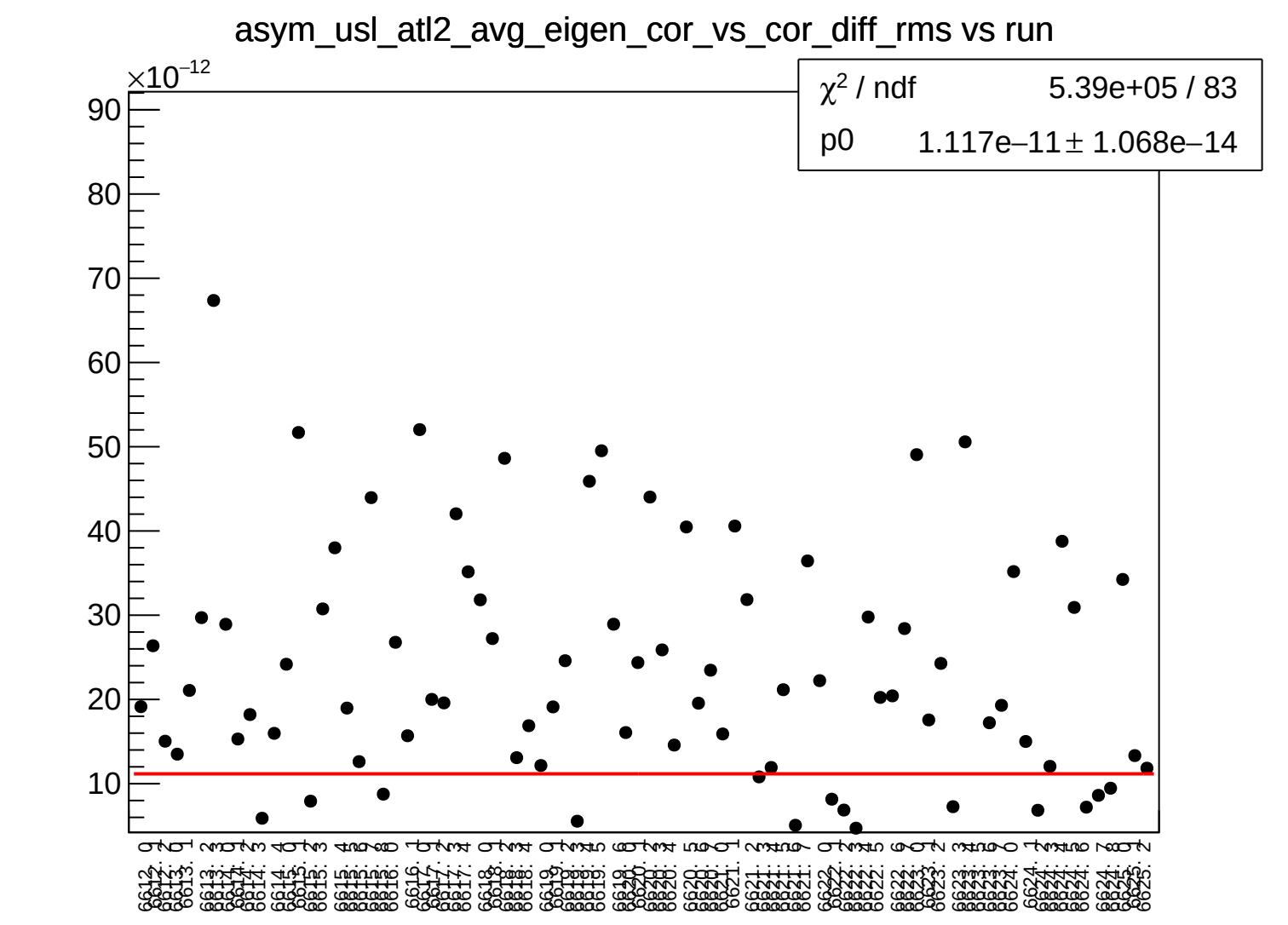

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 143 / 83
p0 3481 ± 2.725
3650
3600
3550
3500
3450
3400

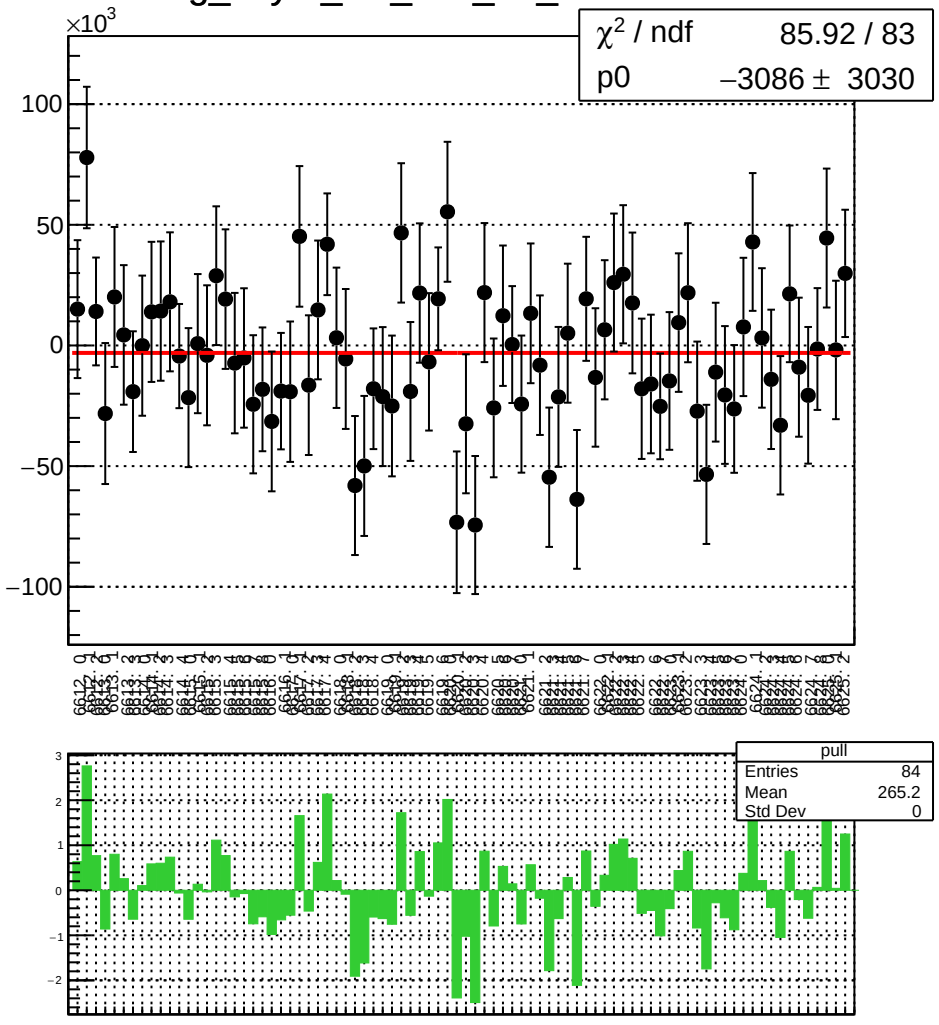

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.85 / 83
p0 −1.073 ± 3.853
pull
Entries 84
Mean 603
Std Dev 0
pull1D
Entries 84
Mean −0.008271
Std Dev 0.9312

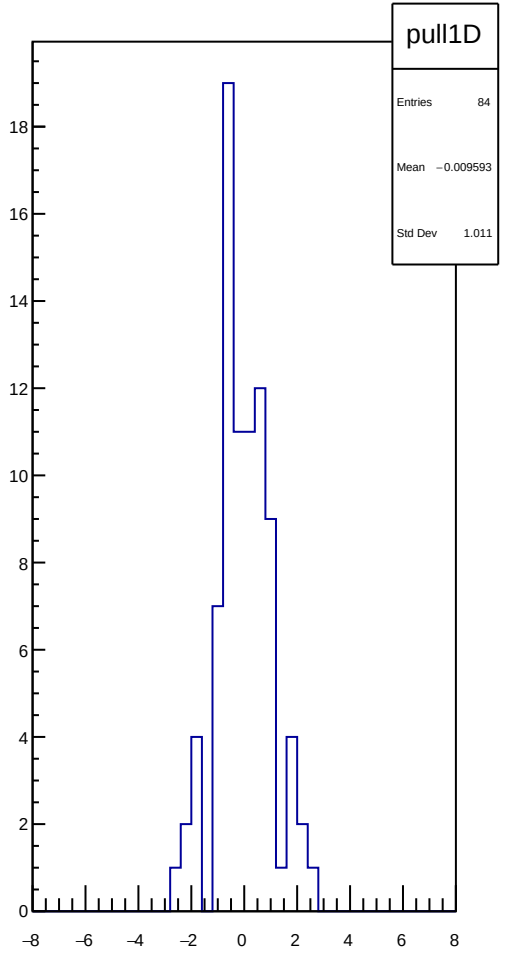

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 143 / 83
p0 3481 ± 2.725
3650
3600
3550
3500
3450
3400

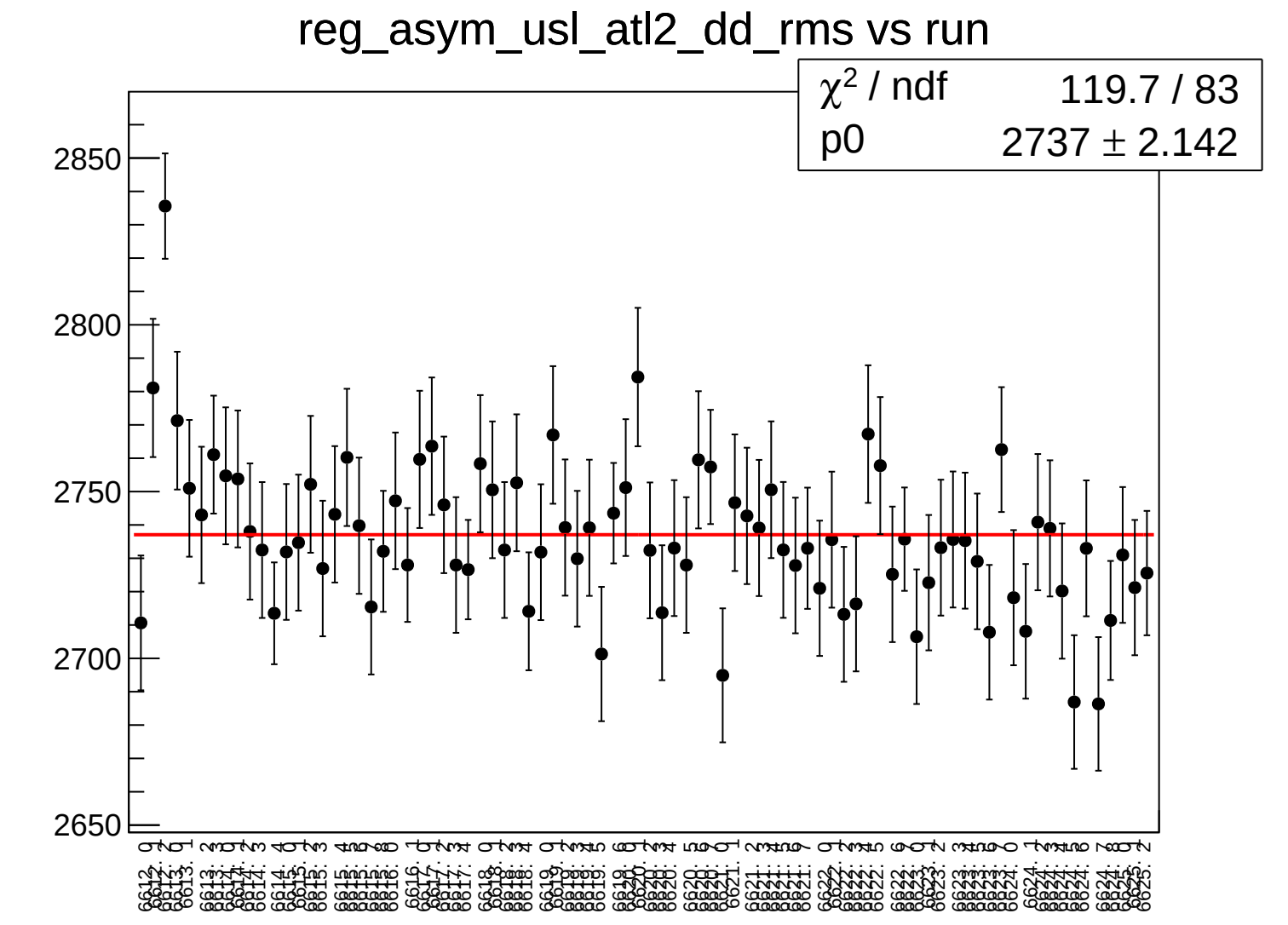

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.29 / 83
p0 −3.108e−15 ± 1.51e−14
pull
Entries 84
Mean 519.8
Std Dev 0

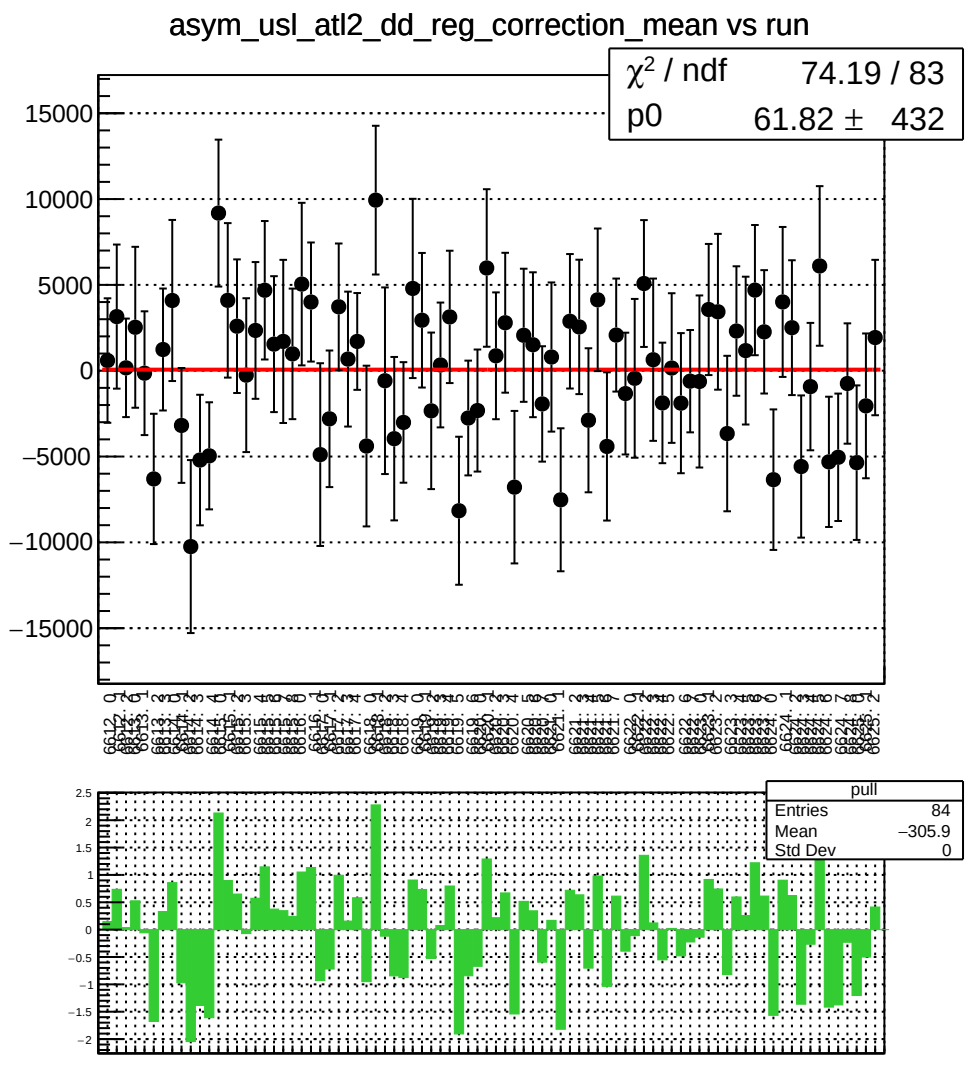

pull1D
Entries 84
Mean −0.004565
Std Dev 0.9957

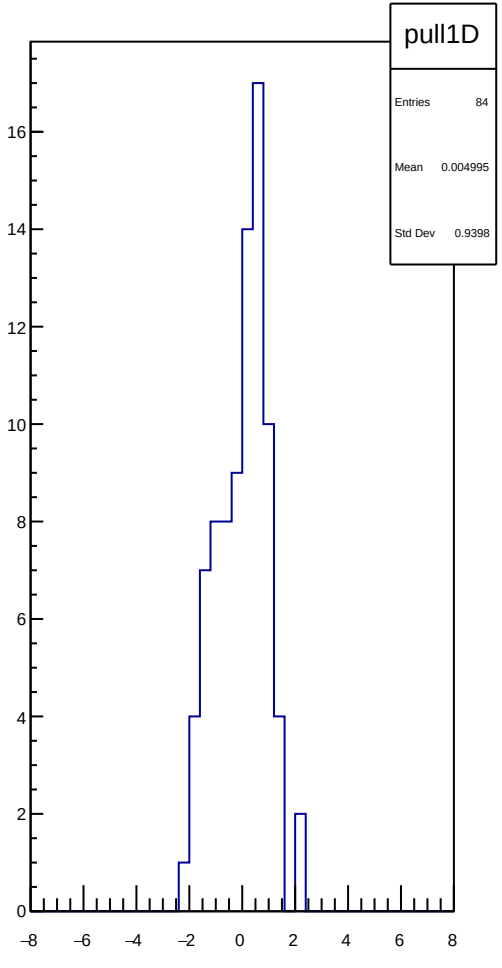

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.39e+05 / 83
p0 1.117e−11 ± 1.068e−14
90
80
70
60
50
40
30
20
10

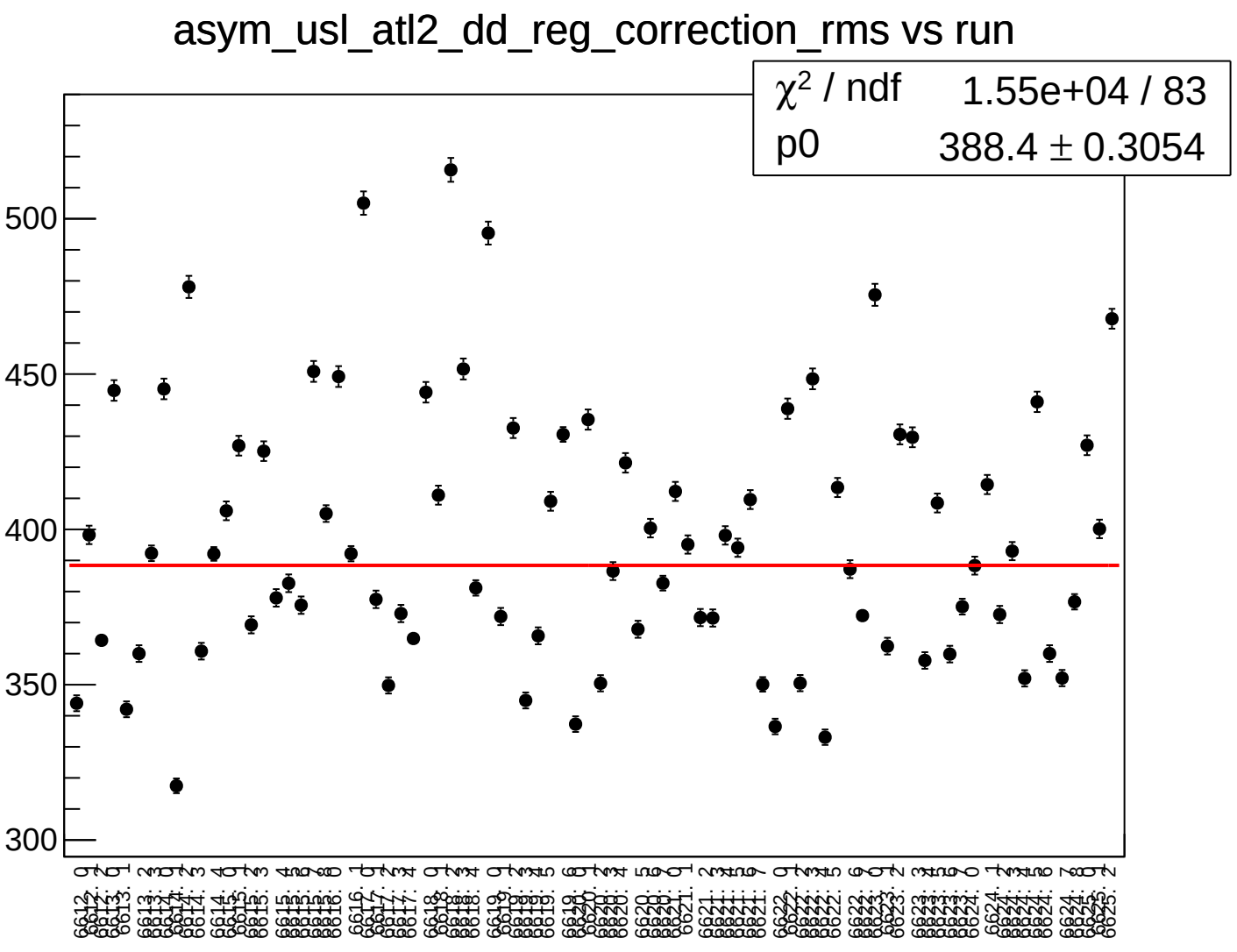

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 85.92 / 83
p0 −3086 ± 3030
×10³
100
50
0
−50
−100
pull
Entries 84
Mean 265.2
Std Dev 0
3
2
1
0
−1
−2

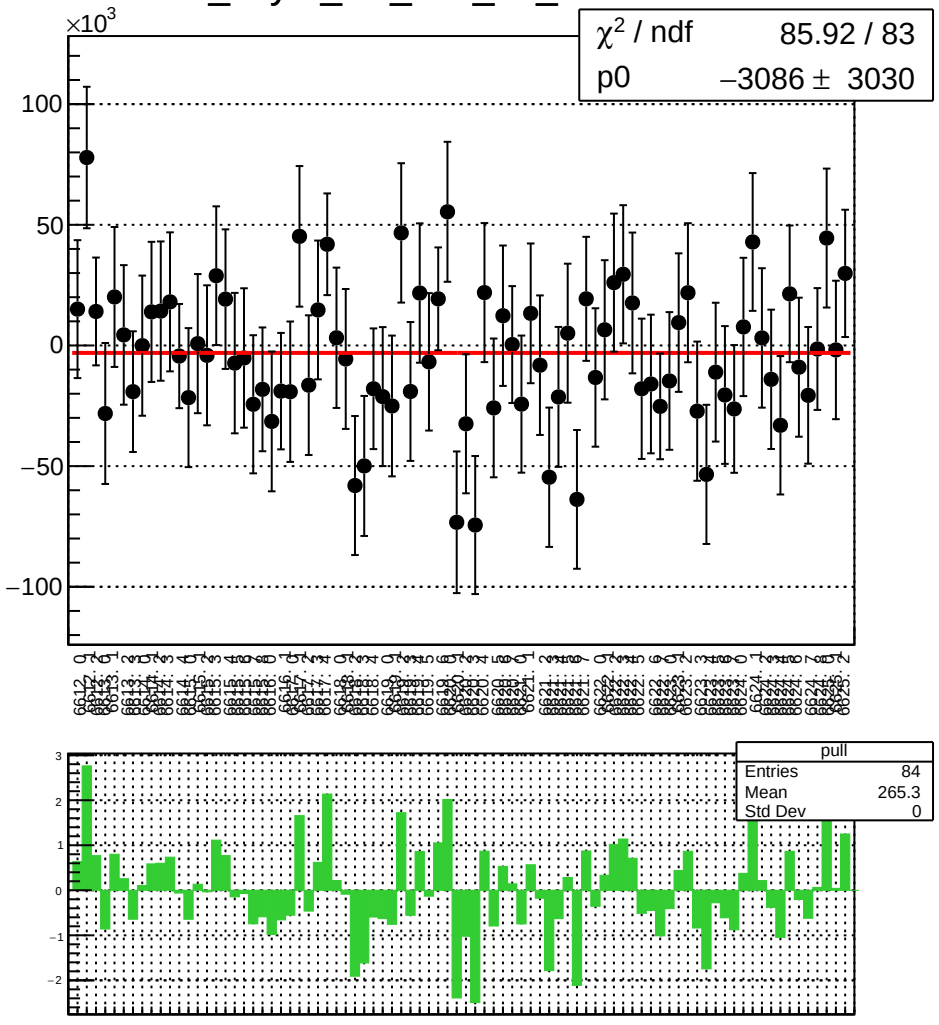

pull1D
Entries 84
Mean −0.009593
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

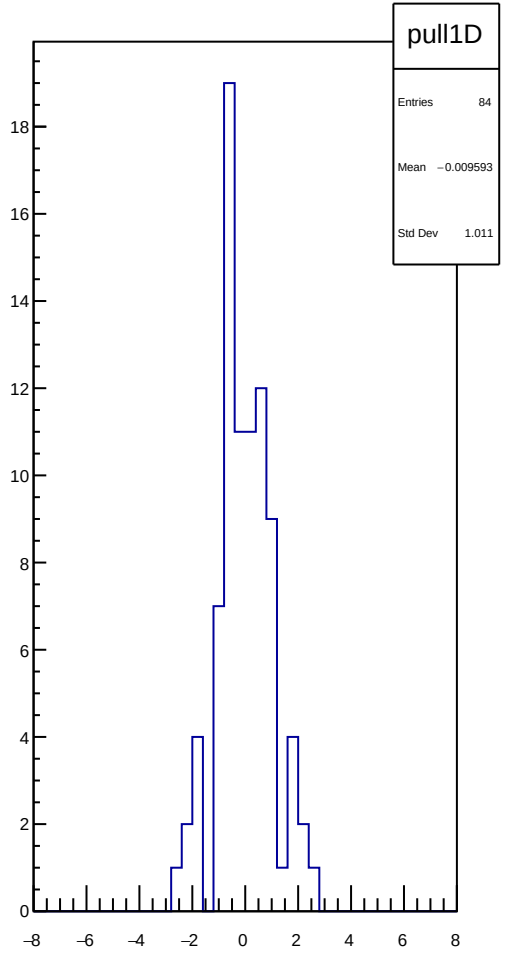

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 119.7 / 83
p0 2737 ± 2.142
2850
2800
2750
2700
2650

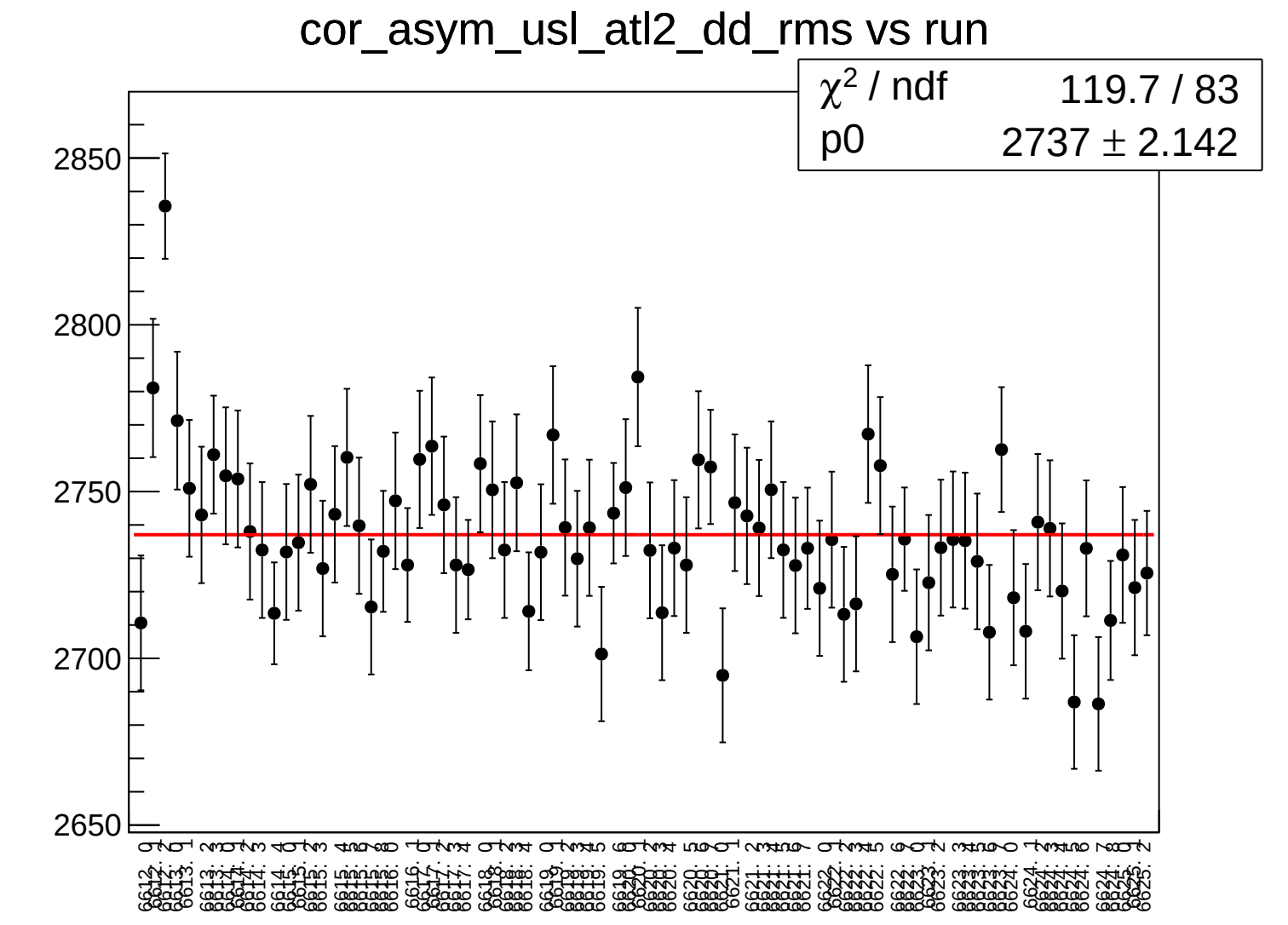

asym_usl_atl2_dd_reg_correction_mean vs run
χ² / ndf 74.19 / 83
p0 61.82 ± 432
pull
Entries 84
Mean −305.9
Std Dev 0

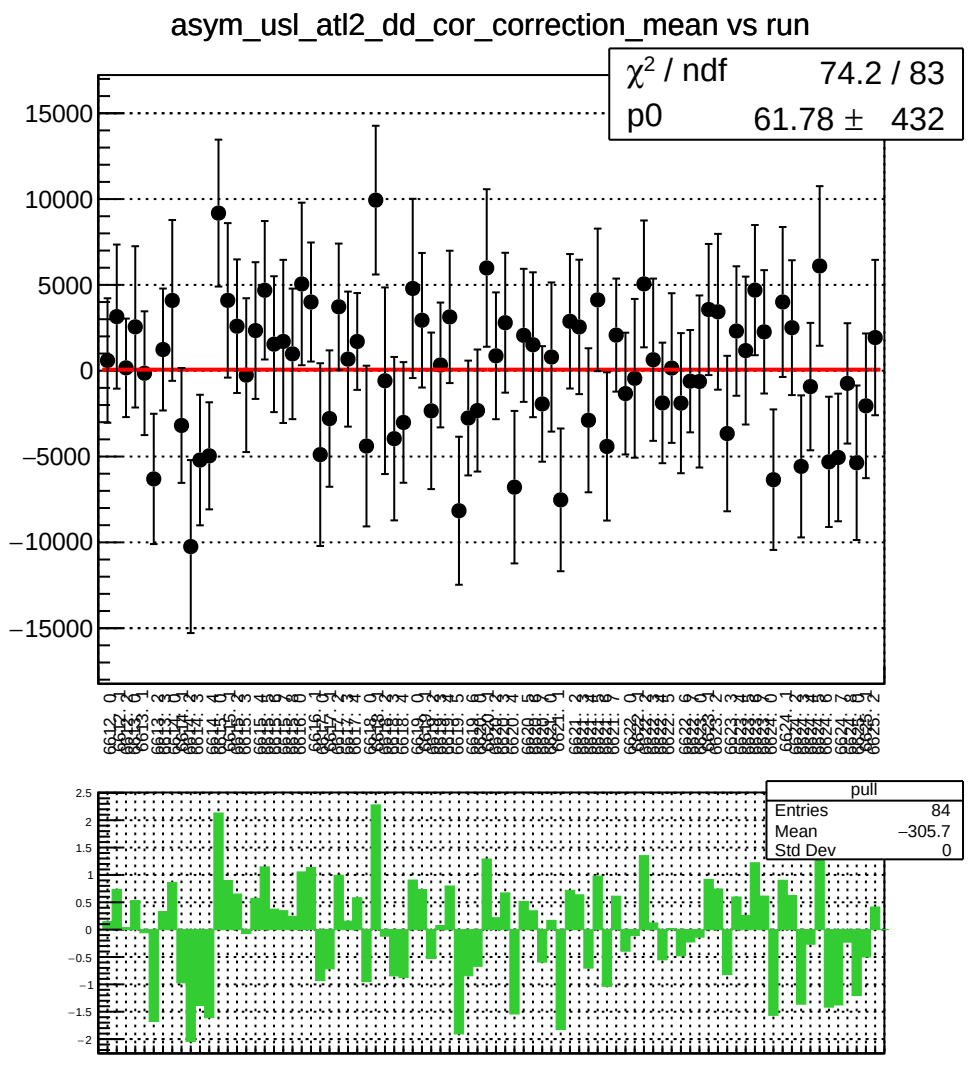

pull1D
Entries 84
Mean 0.004995
Std Dev 0.9398

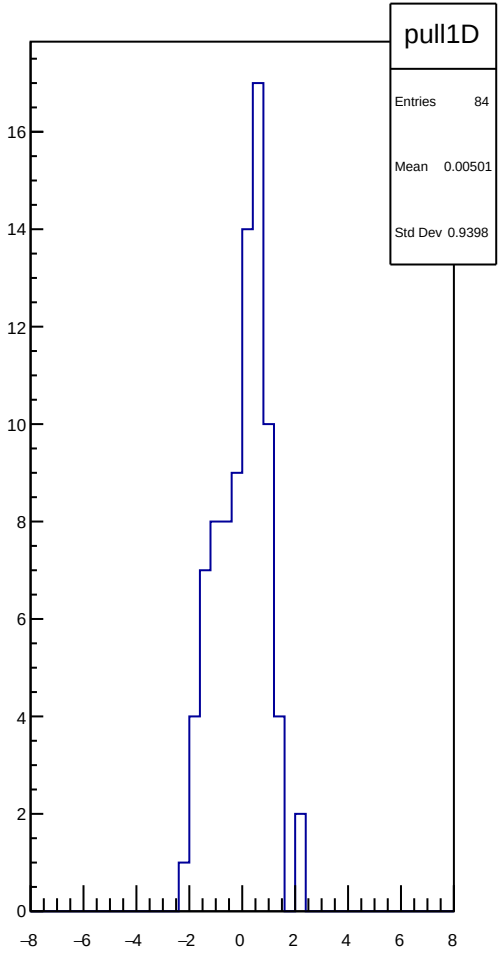

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1.55e+04 / 83
p0 388.4 ± 0.3054
500
450
400
350
300

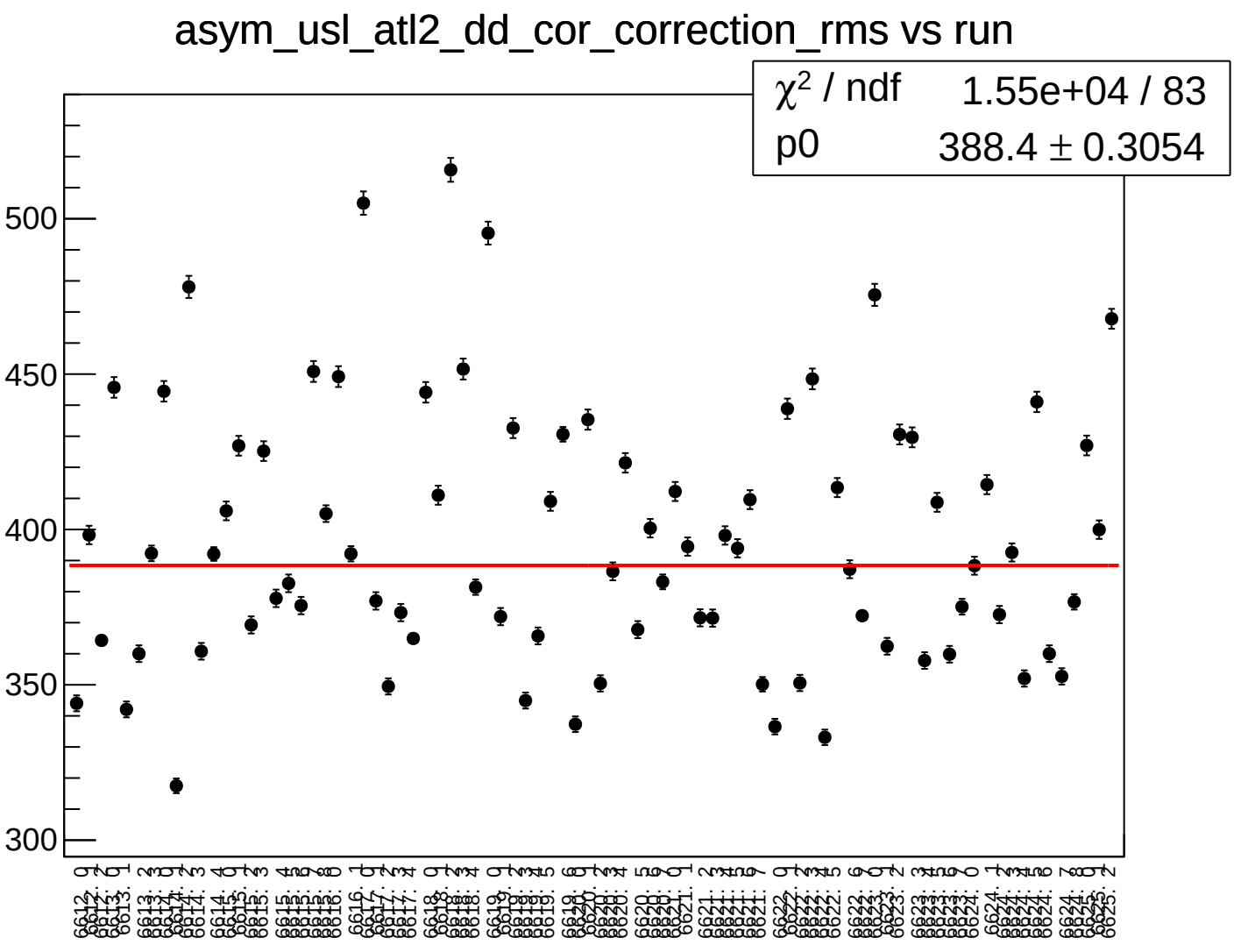

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 85.92 / 83
p0 −3086 ± 3030
×10³
100
50
0
−50
−100
pull
Entries 84
Mean 265.3
Std Dev 0
3
2
1
0
−1
−2

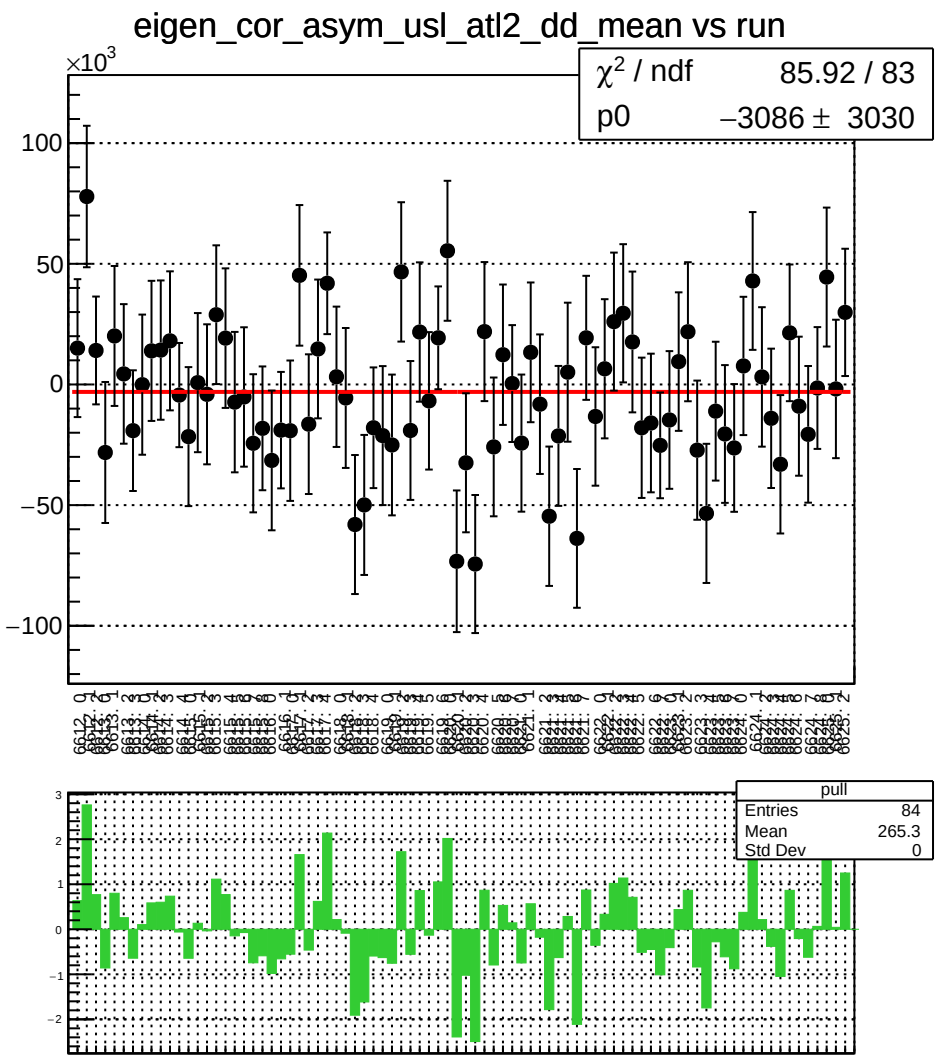

pull1D
Entries 84
Mean −0.009593
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

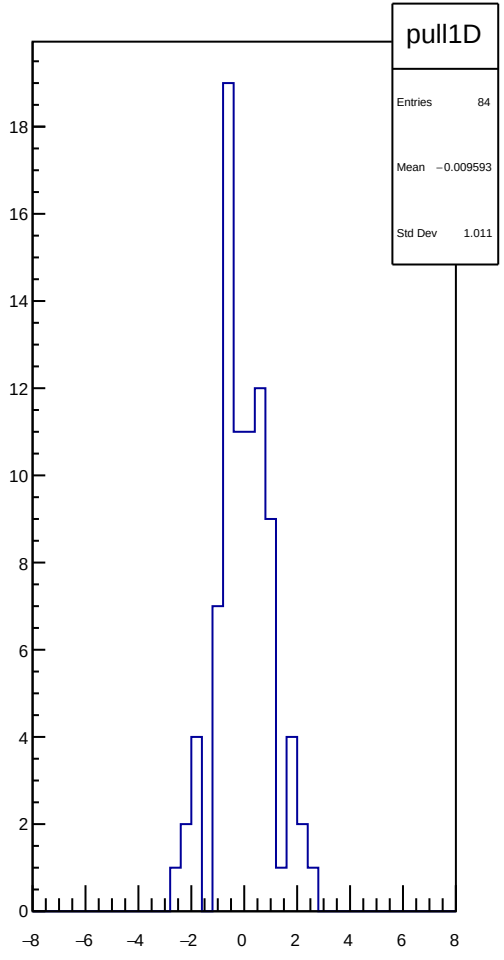

cor_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 119.7 / 83
p0 2737 ± 2.142
2850
2800
2750
2700
2650

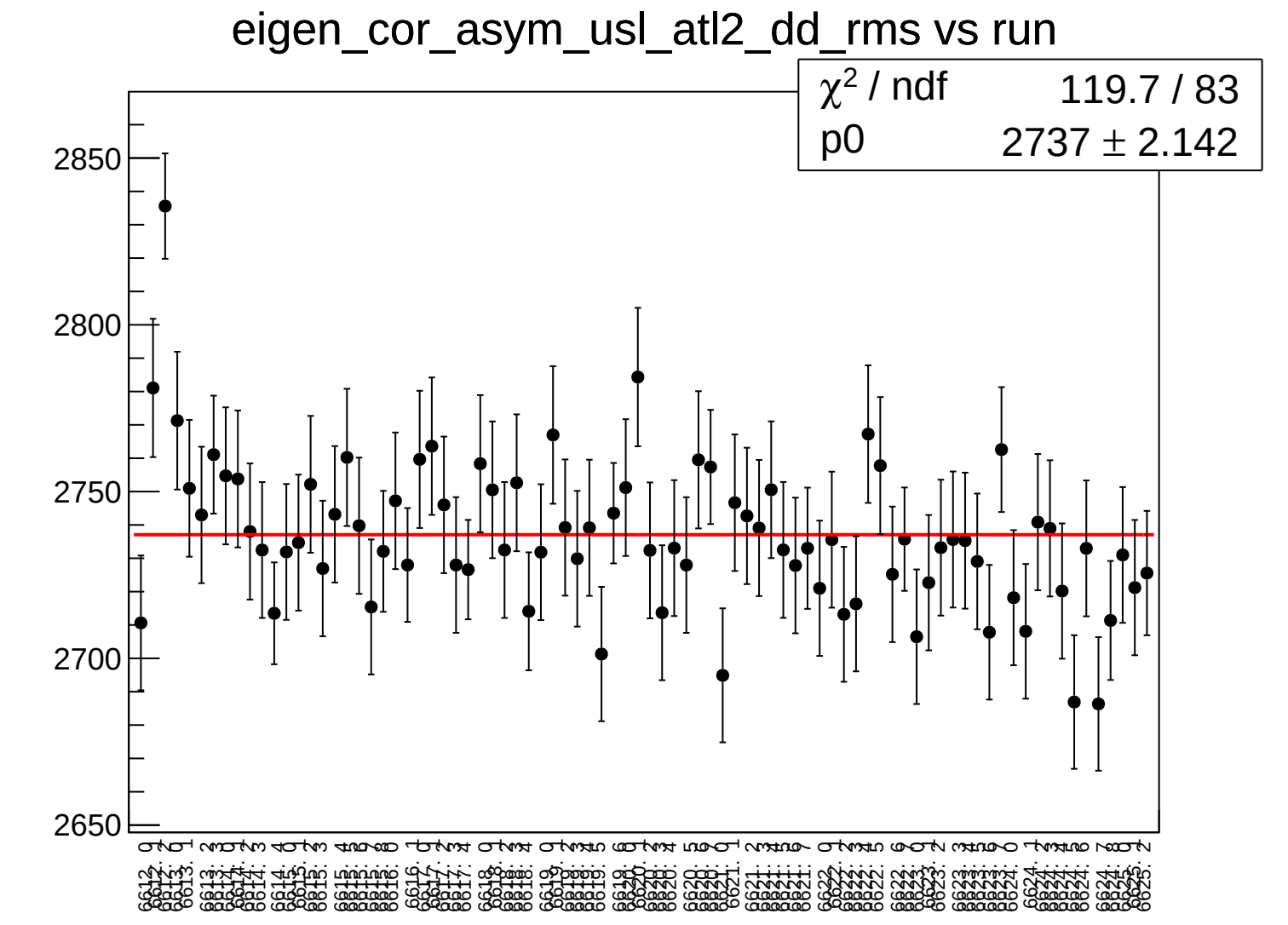

asym_usl_atl2_dd_cor_correction_mean vs run
χ² / ndf 74.2 / 83
p0 61.78 ± 432
pull
Entries 84
Mean −305.7
Std Dev 0

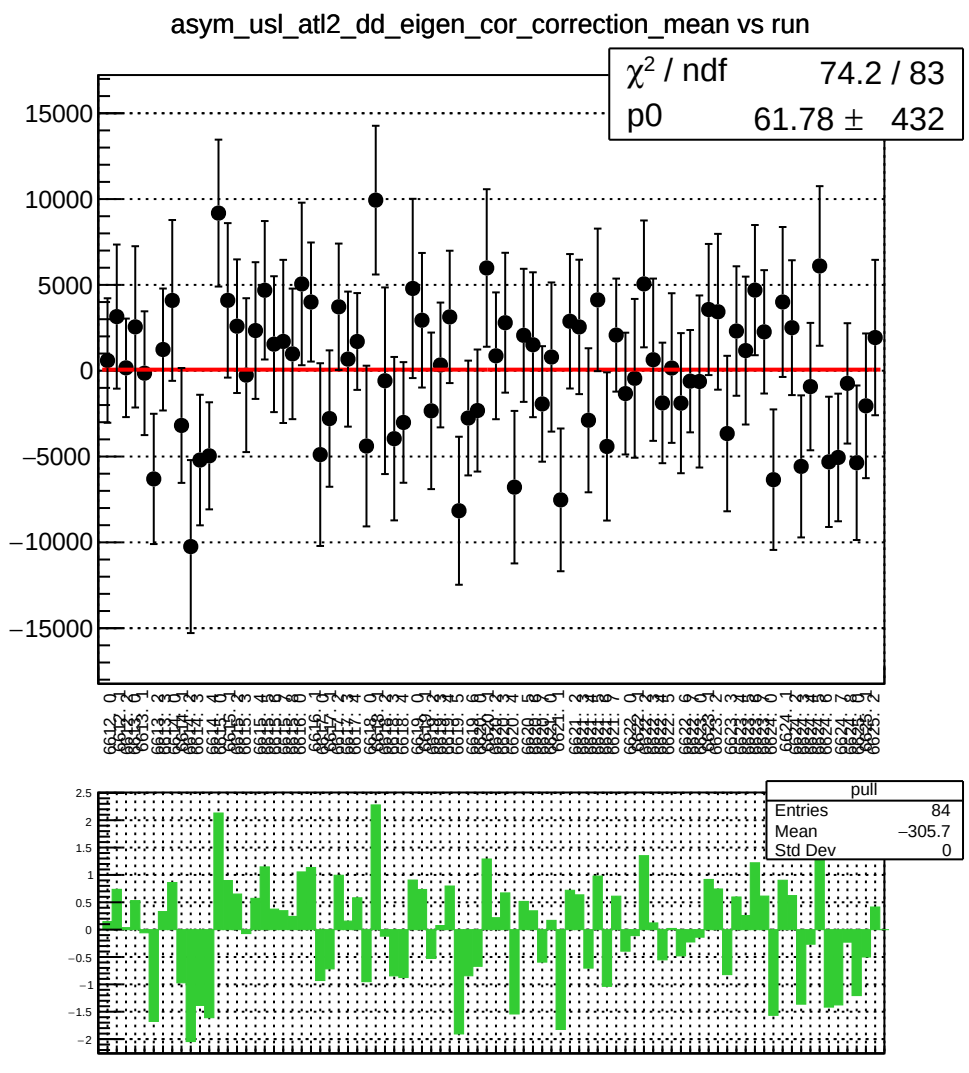

pull1D
Entries 84
Mean 0.00501
Std Dev 0.9398

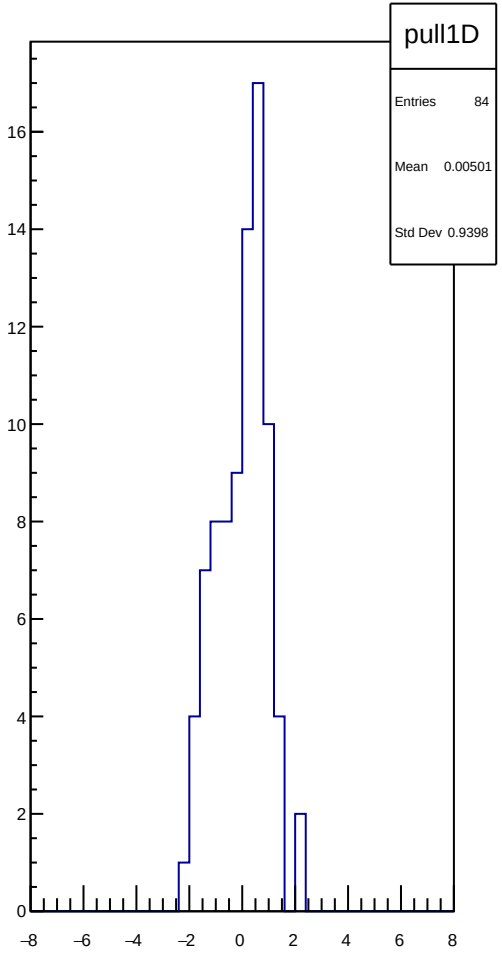

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 1.55e+04 / 83
p0 388.4 ± 0.3054
500
450
400
350
300

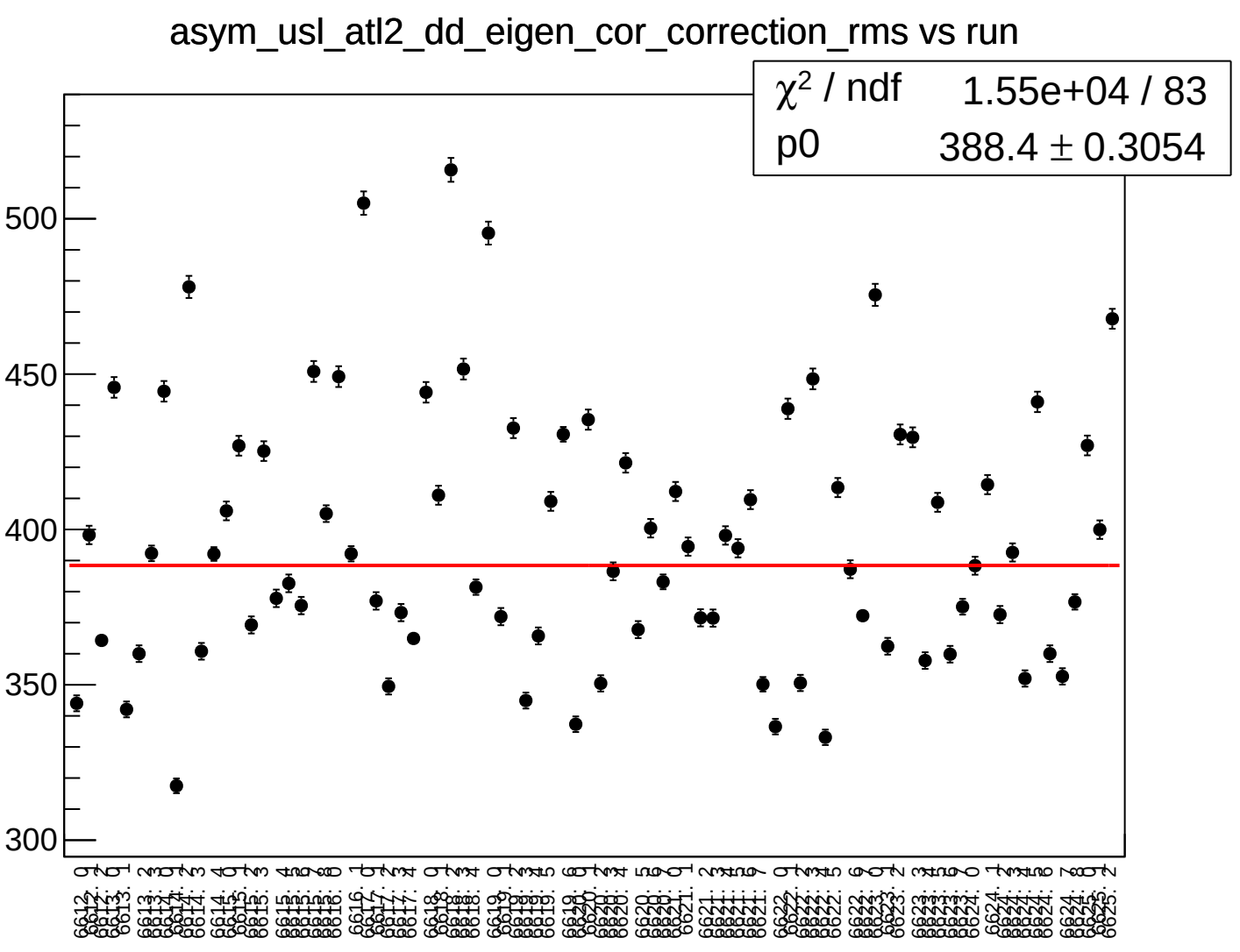

eigen_cor_asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 85.92 / 83
p0 −3086 ± 3030
100
50
0
−50
−100
pull
Entries 84
Mean 265.3
Std Dev 0
3
2
1
0
−1
−2

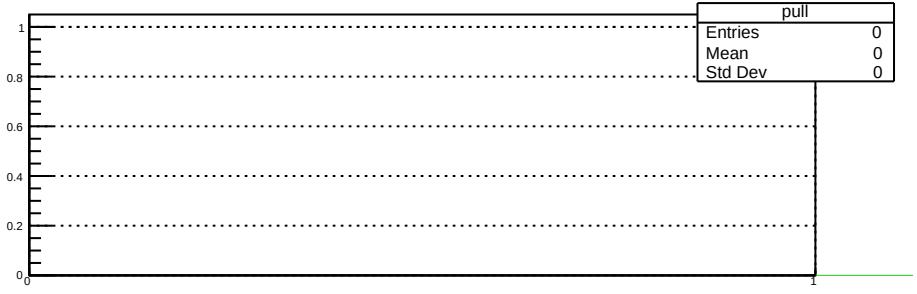

pull1D
Entries 84
Mean −0.009593
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

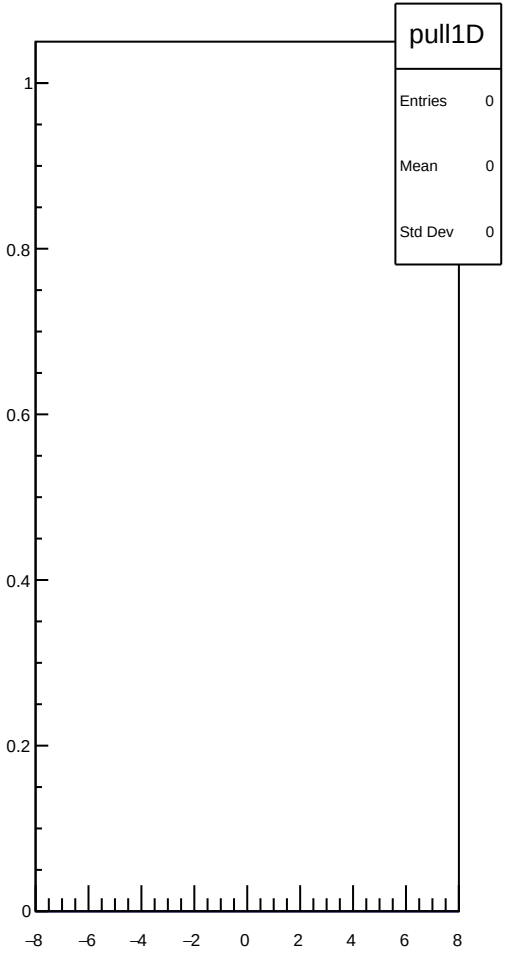

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 119.7 / 83
p0 2737 ± 2.142
2850
2800
2750
2700
2650

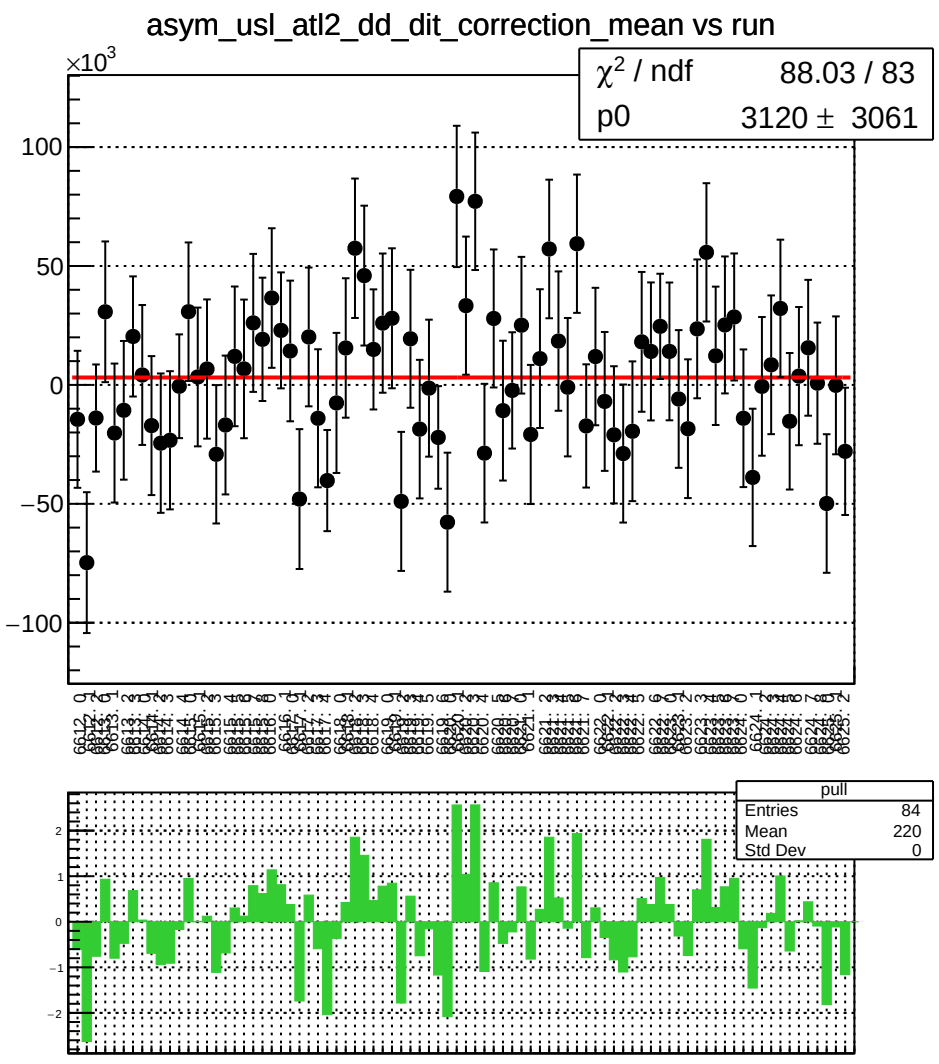

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.2 / 83
p0 61.78 ± 432
pull
Entries 84
Mean −305.7
Std Dev 0

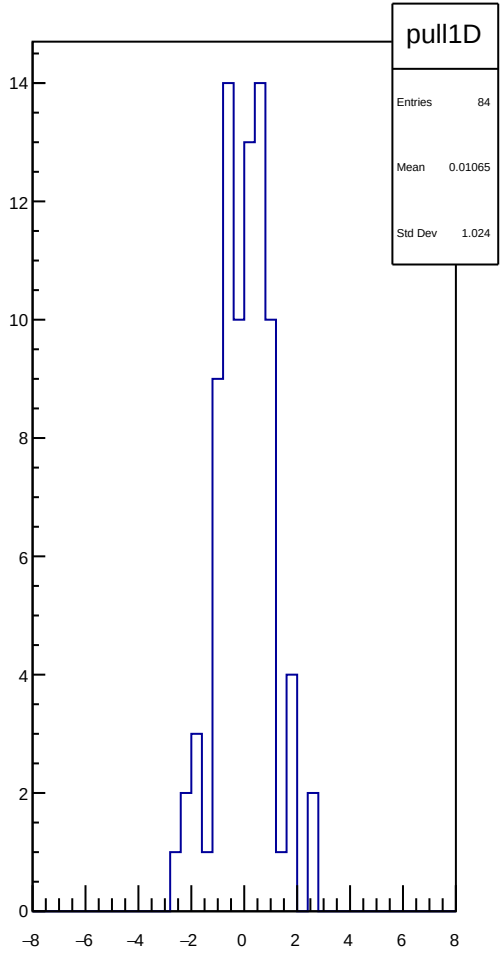

pull1D
Entries 84
Mean 0.00501
Std Dev 0.9398

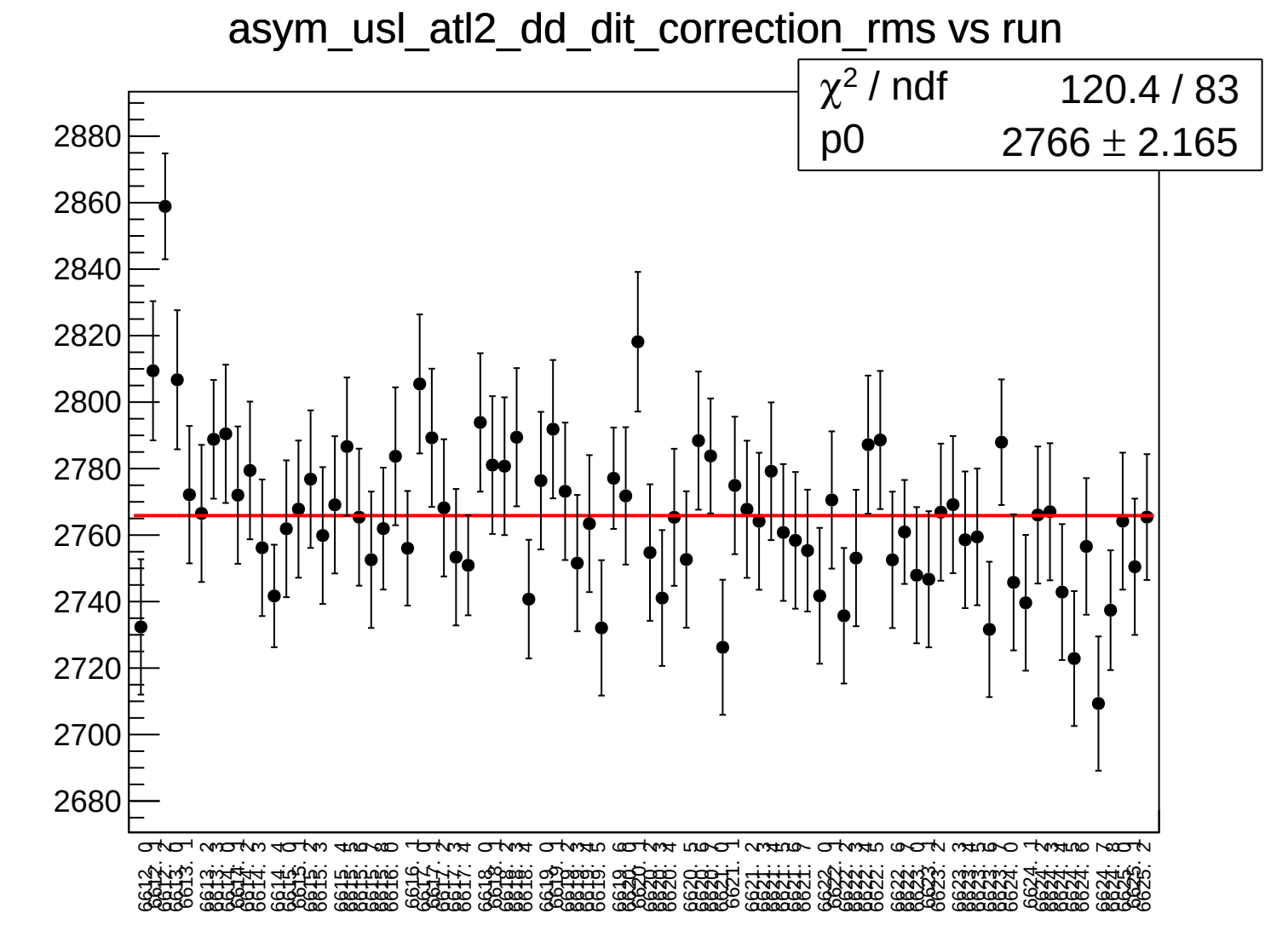

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.55e+04 / 83
p0 388.4 ± 0.3054
500
450
400
350
300

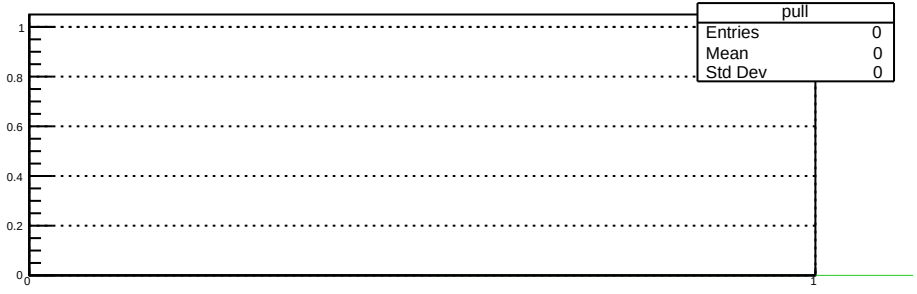

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

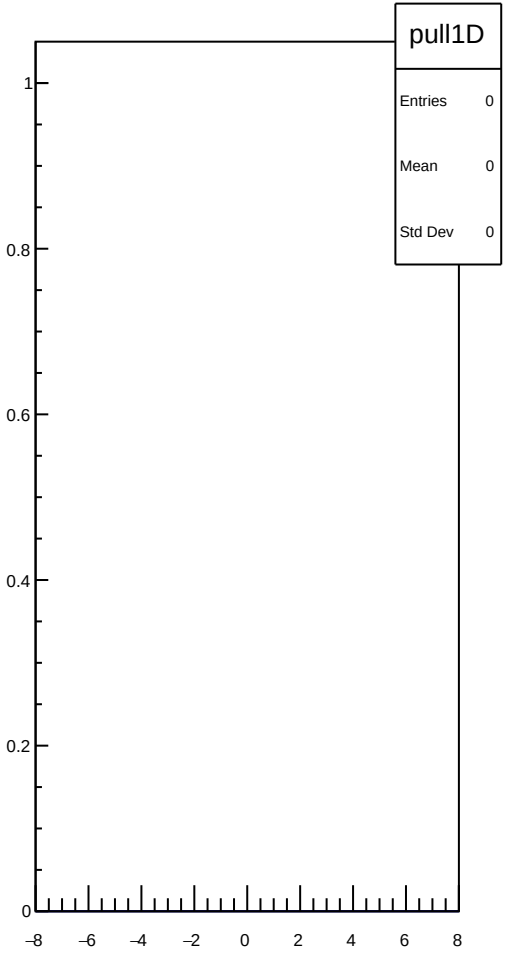

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

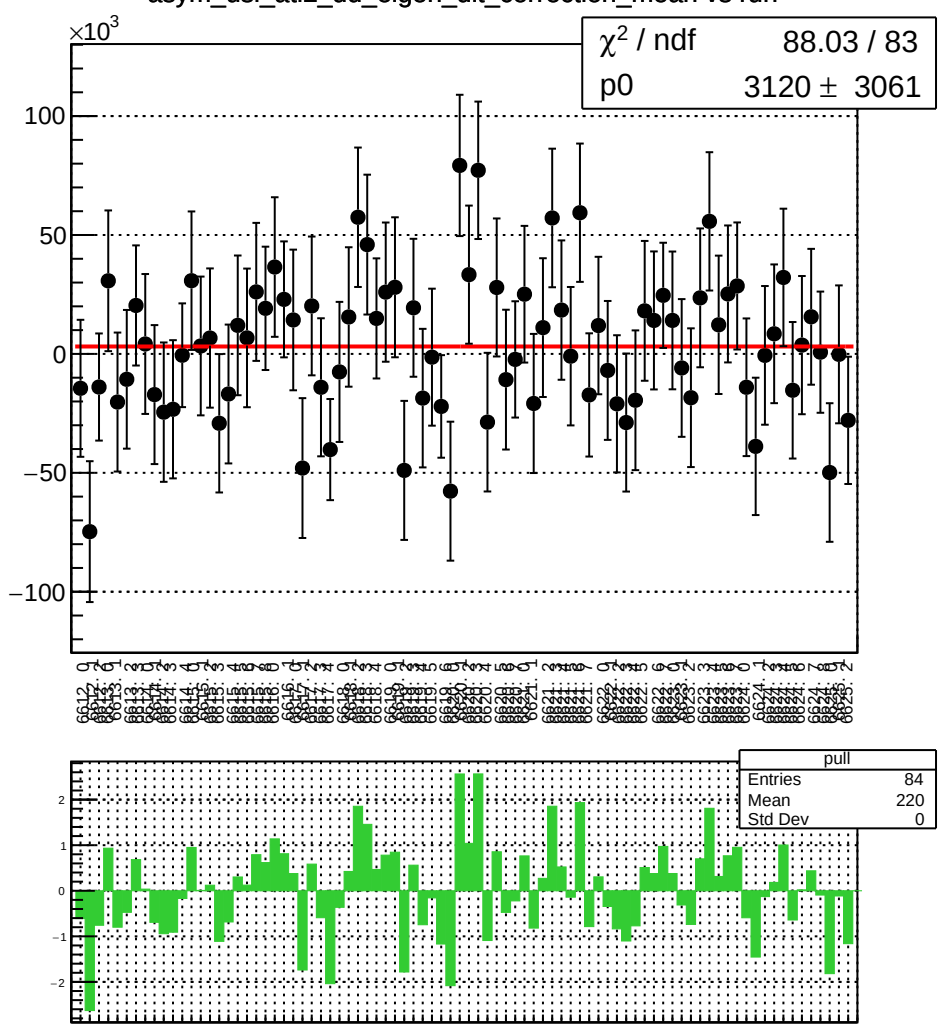

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 88.03 / 83
p0 3120 ± 3061
100
50
0
−50
−100
pull
Entries 84
Mean 220
Std Dev 0
2
1
0
−1
−2

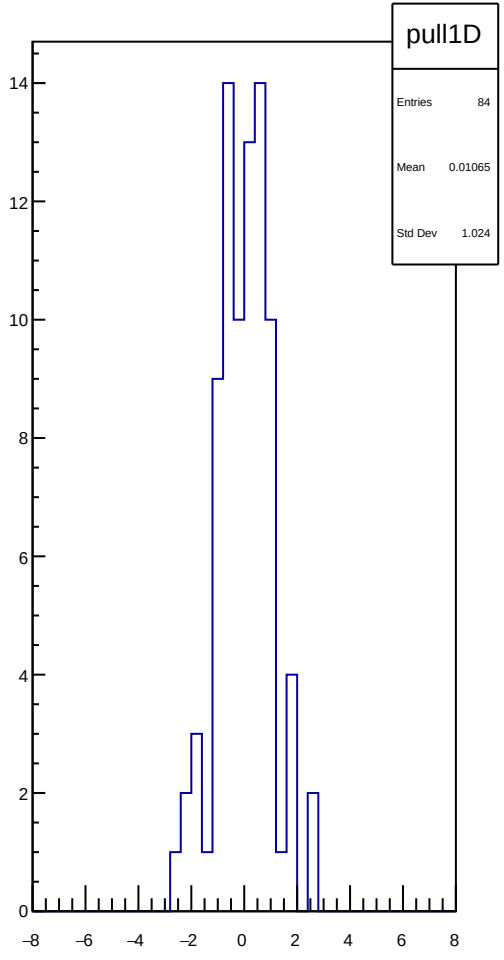

pull1D
Entries 84
Mean 0.01065
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

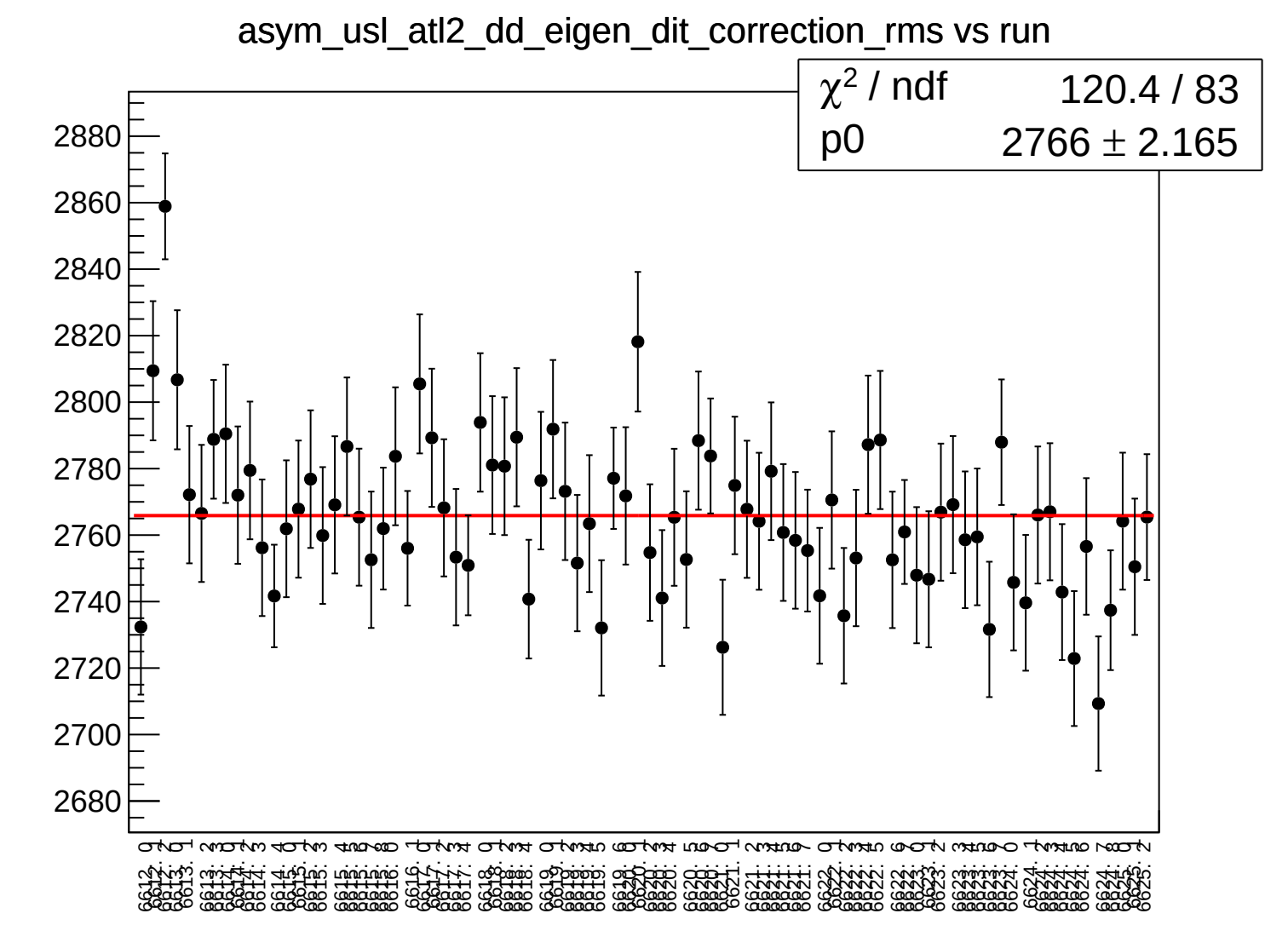

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 120.4 / 83
p0 2766 ± 2.165
2880
2860
2840
2820
2800
2780
2760
2740
2720
2700
2680

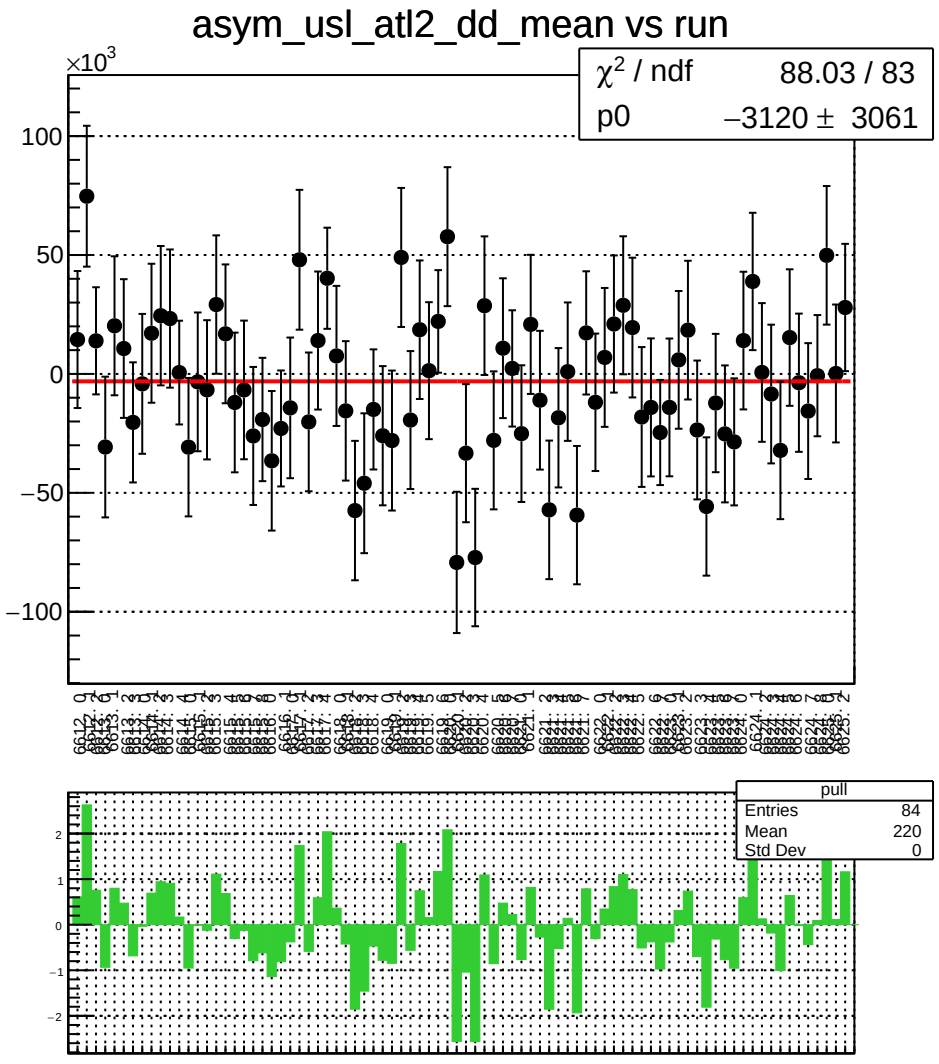

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

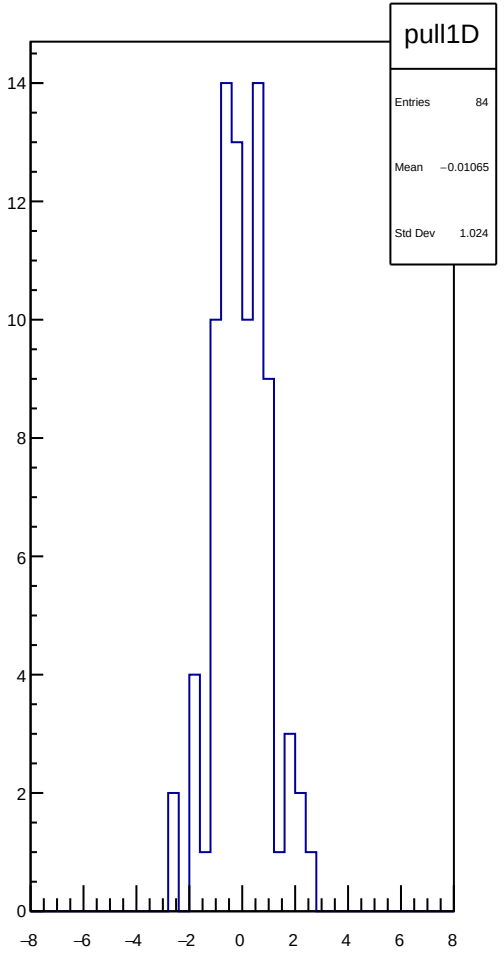

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

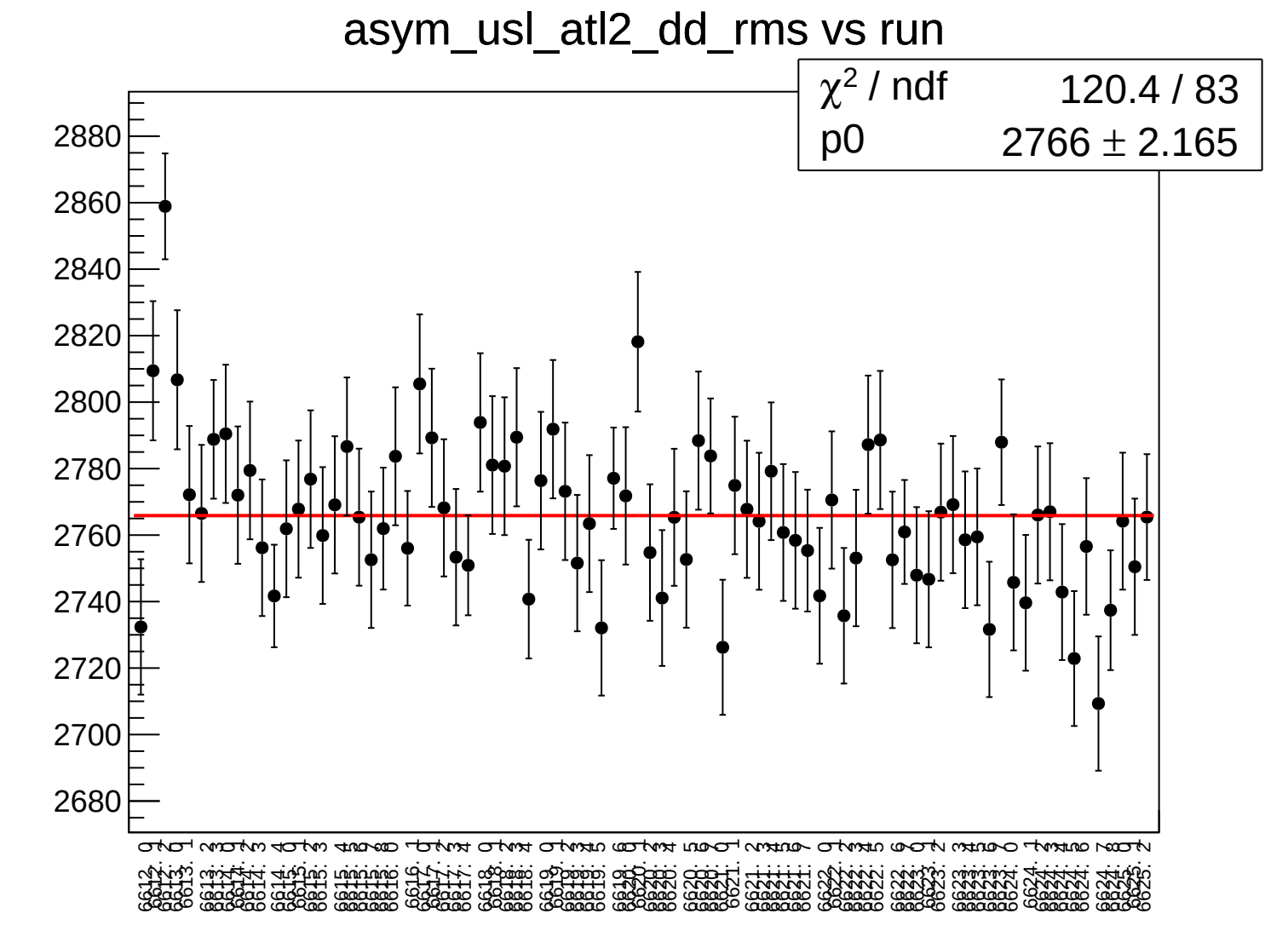

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.03 / 83
p0 3120 ± 3061
100
50
0
−50
−100
pull
Entries 84
Mean 220
Std Dev 0
2
1
0
−1
−2

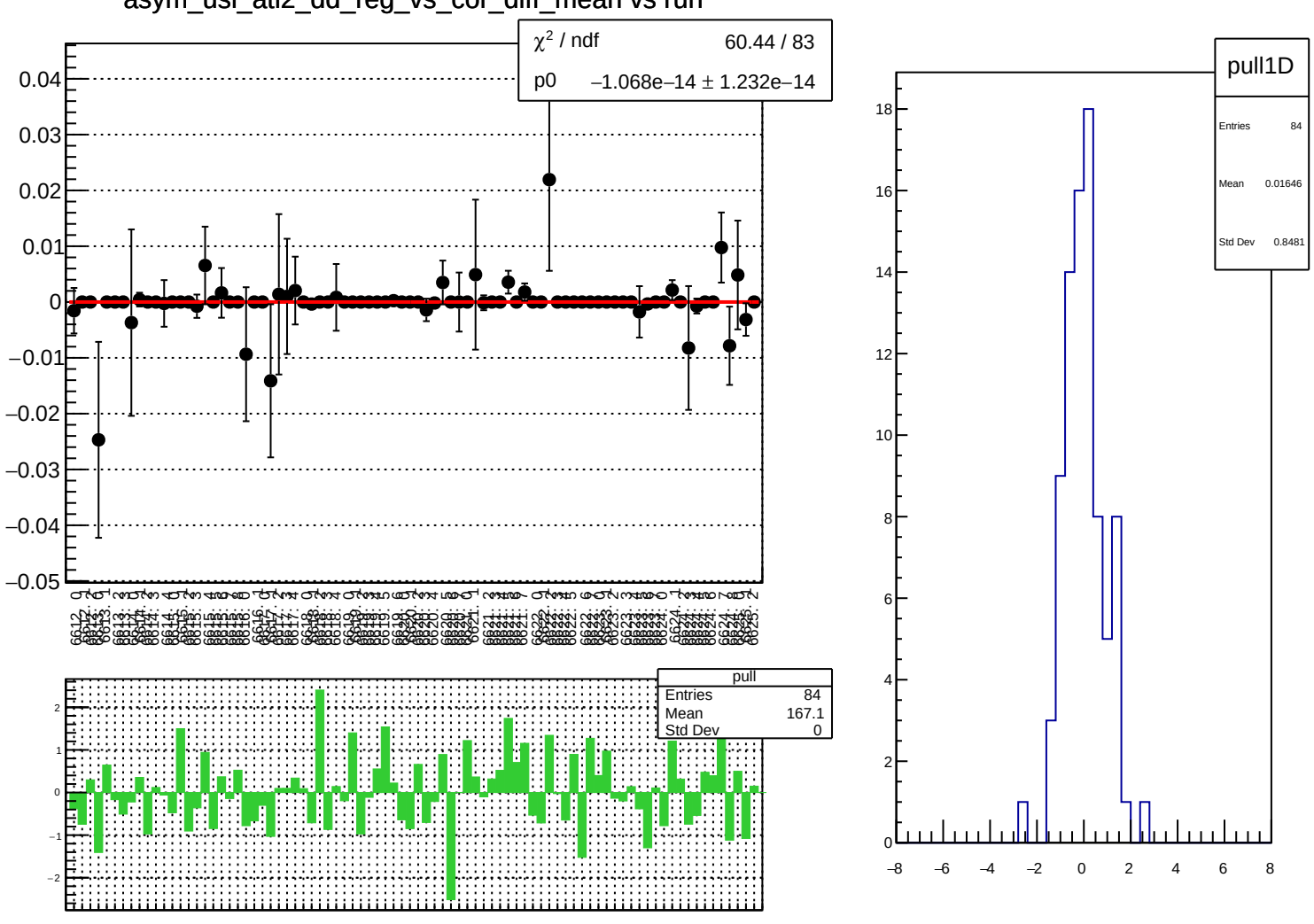

pull1D
Entries 84
Mean 0.01065
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

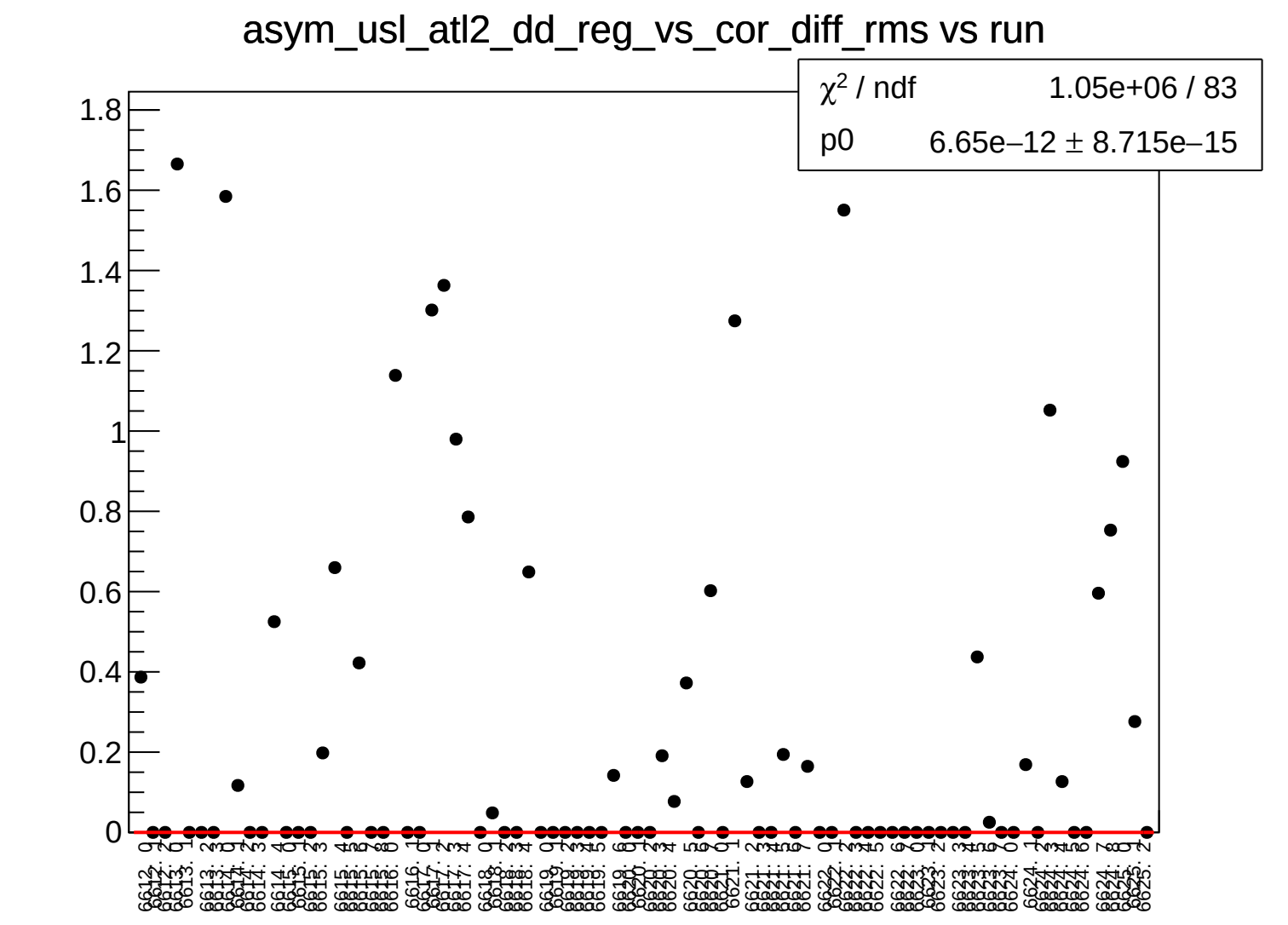

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 120.4 / 83
p0 2766 ± 2.165
2880
2860
2840
2820
2800
2780
2760
2740
2720
2700
2680

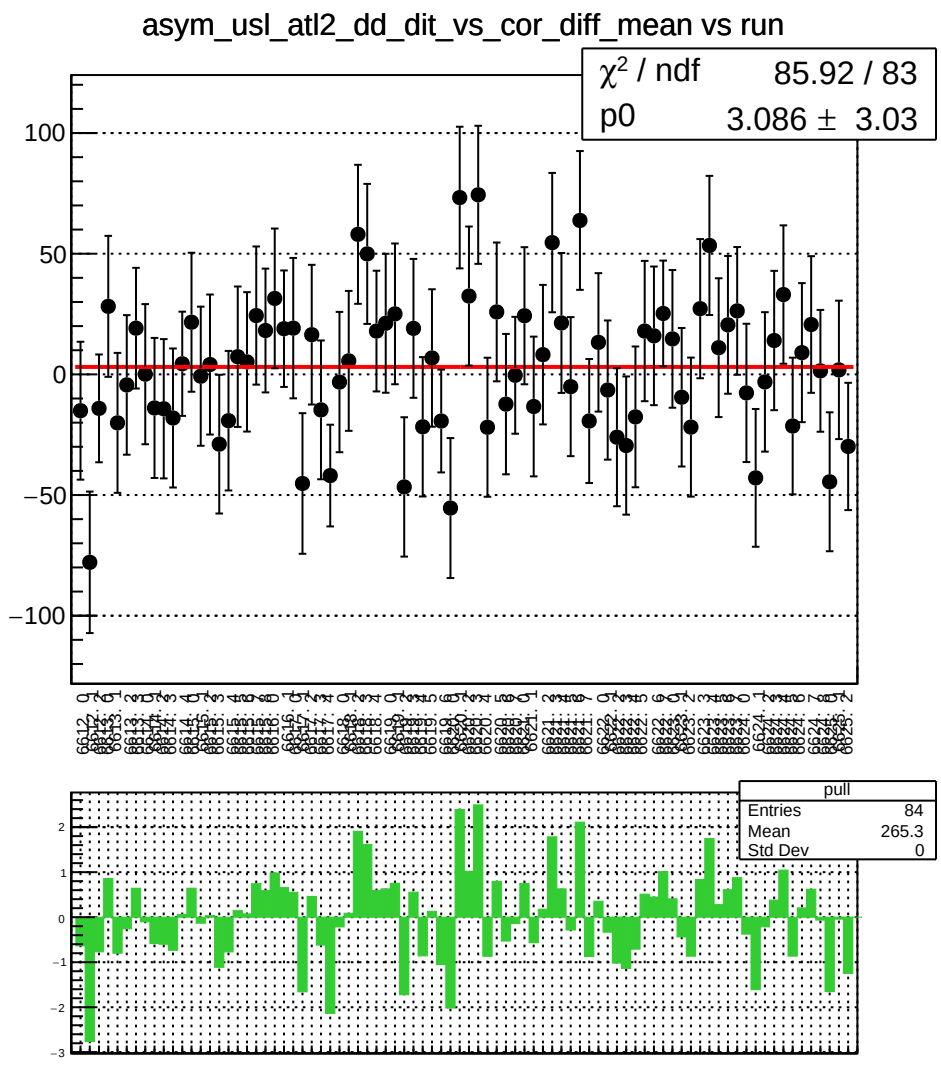

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 88.03 / 83
p0 −3120 ± 3061
100
50
0
−50
−100
pull
Entries 84
Mean 220
Std Dev 0
2
1
0
−1
−2

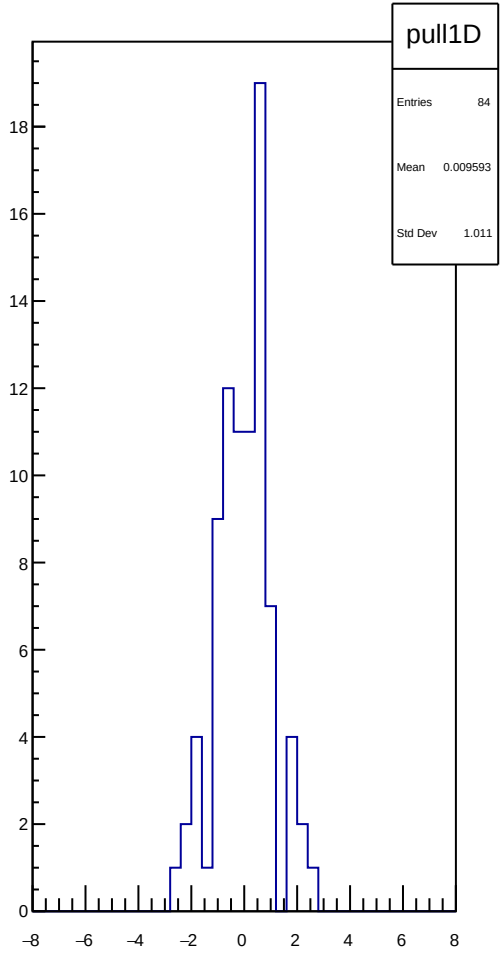

pull1D
Entries 84
Mean −0.01065
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

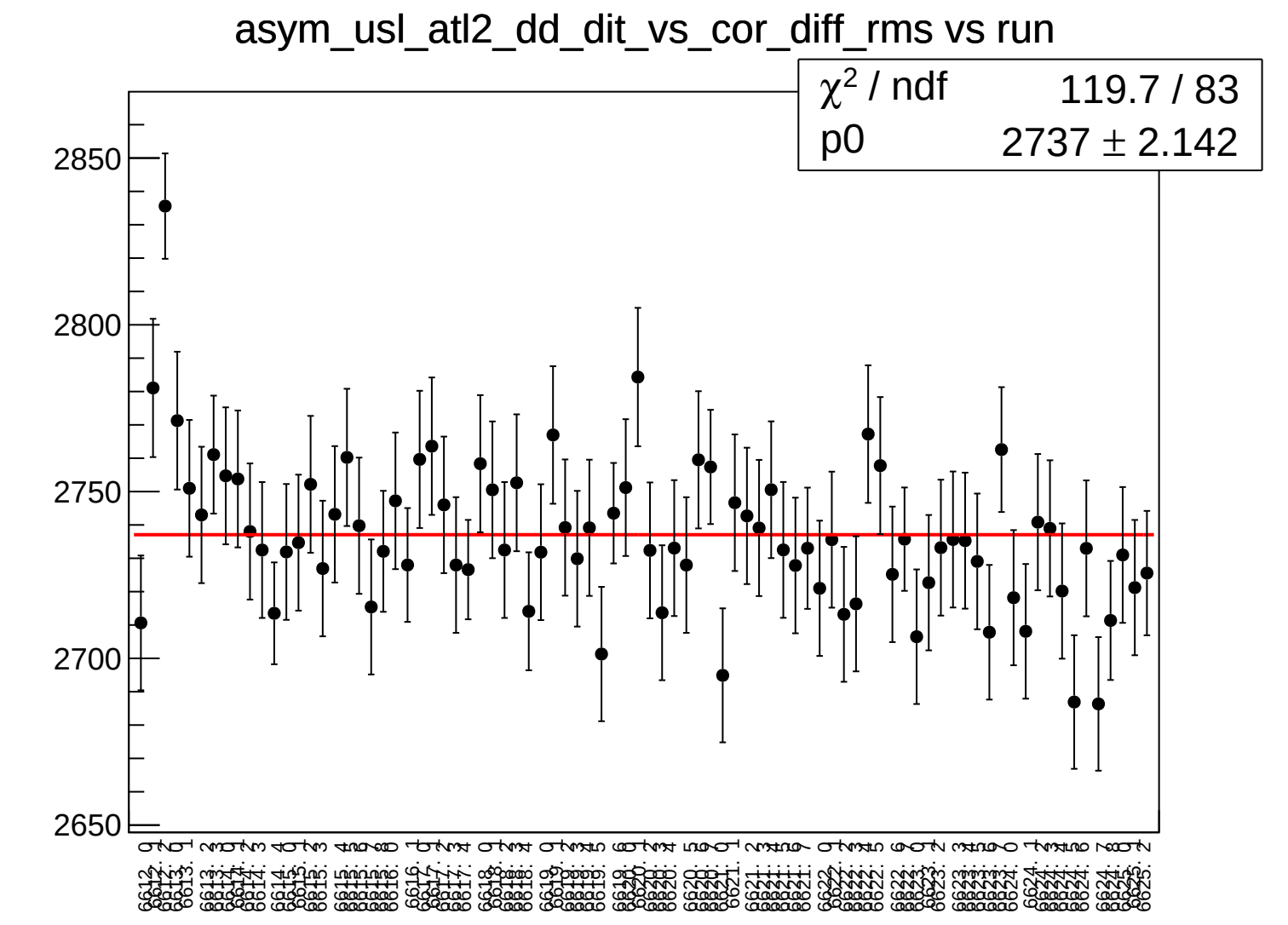

asym_usl_atl2_dd_rms vs run
χ² / ndf 120.4 / 83
p0 2766 ± 2.165
2880
2860
2840
2820
2800
2780
2760
2740
2720
2700
2680

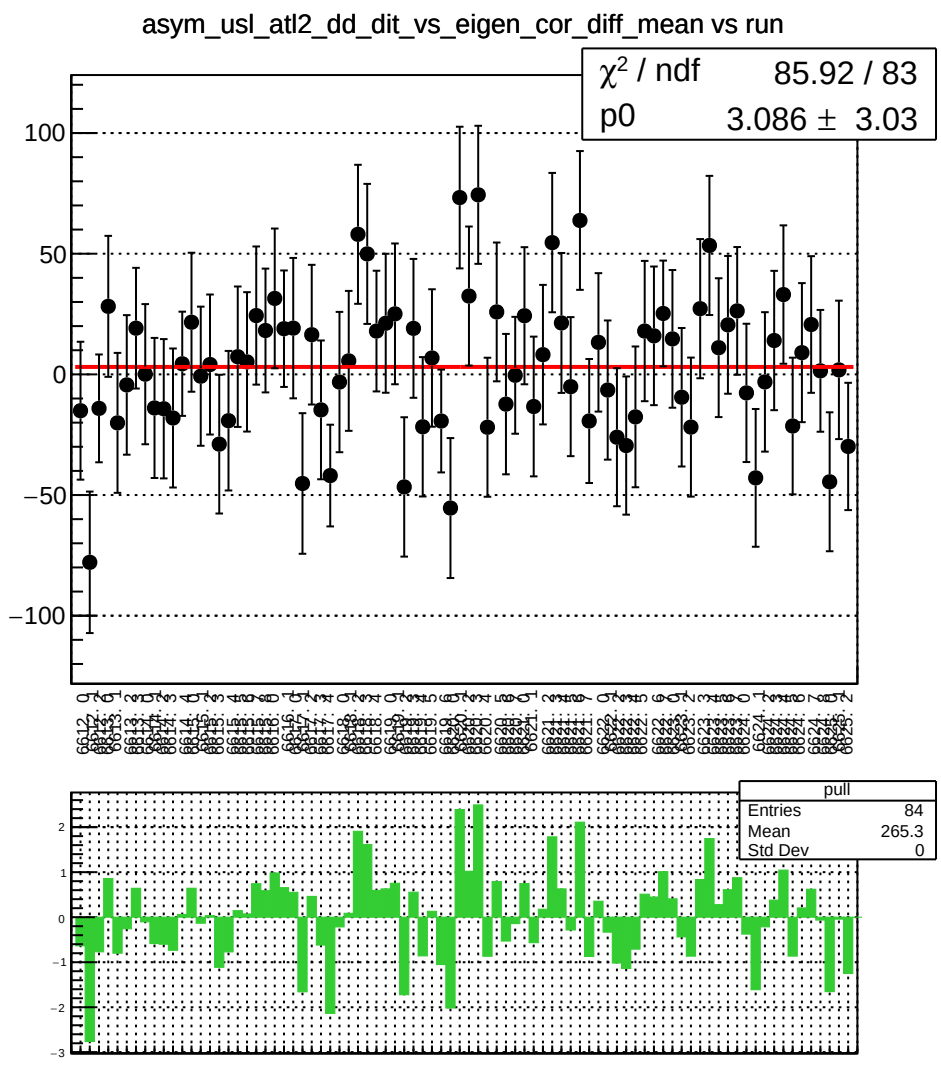

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 60.44 / 83
p0 −1.068e−14 ± 1.232e−14
pull
Entries 84
Mean 167.1
Std Dev 0
pull1D
Entries 84
Mean 0.01646
Std Dev 0.8481

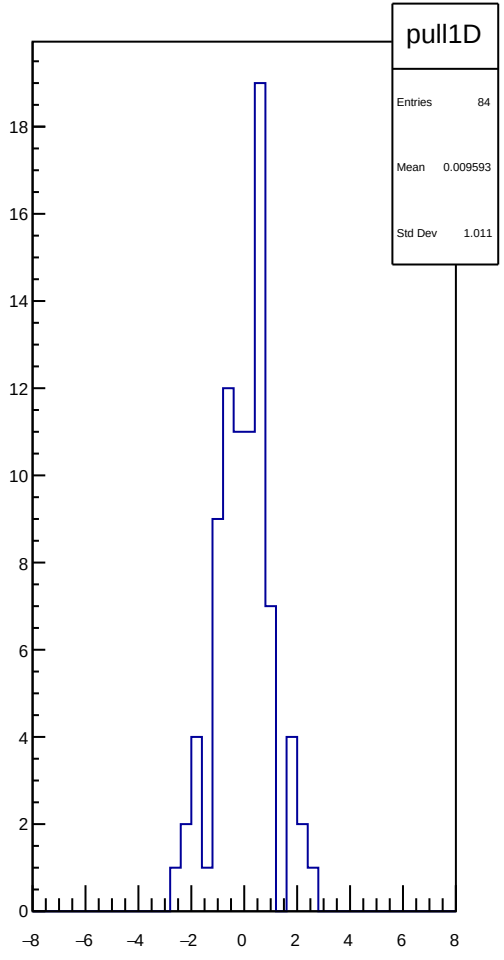

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.05e+06 / 83
p0 6.65e−12 ± 8.715e−15
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

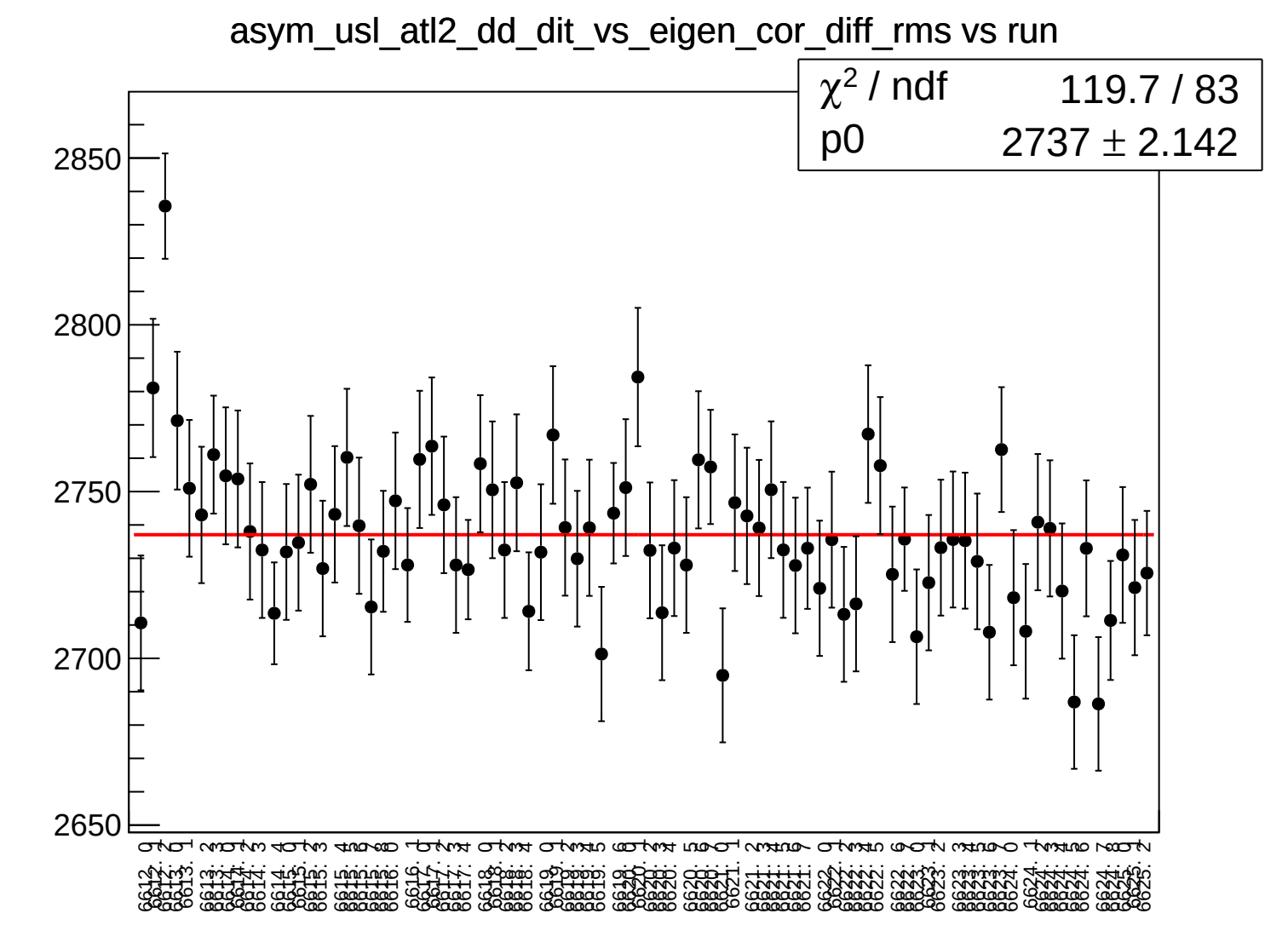

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.92 / 83
p0 3.086 ± 3.03
100
50
0
−50
−100
pull
Entries 84
Mean 265.3
Std Dev 0
2
1
0
−1
−2
−3

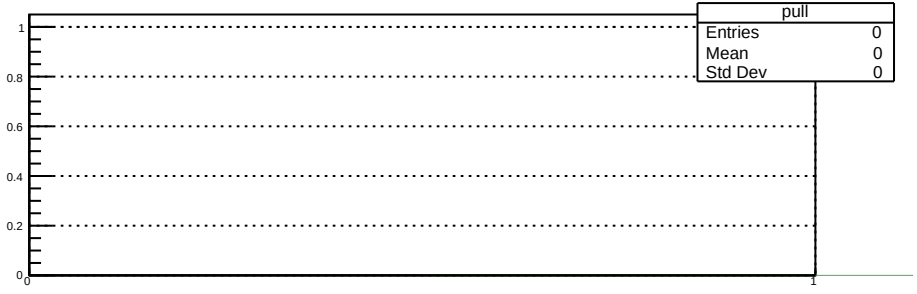

pull1D
Entries 84
Mean 0.009593
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

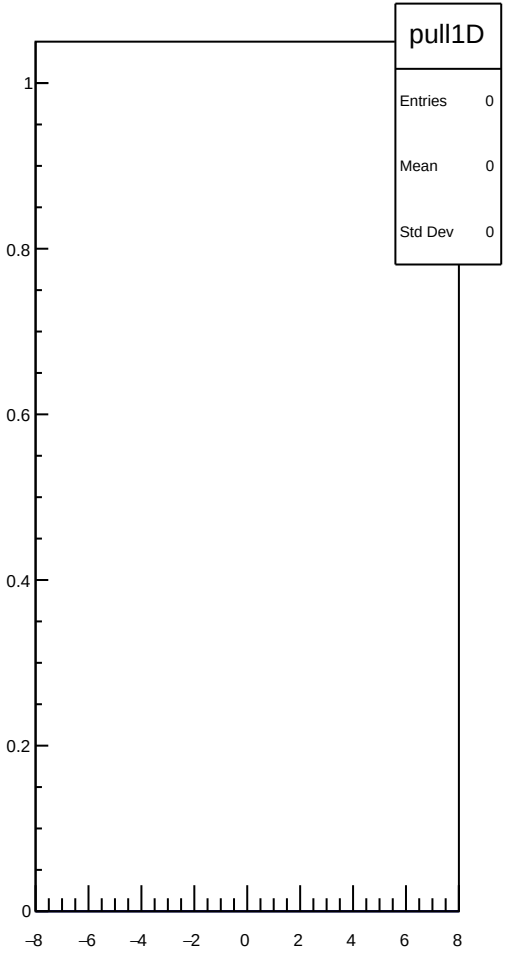

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 119.7 / 83
p0 2737 ± 2.142
2850
2800
2750
2700
2650

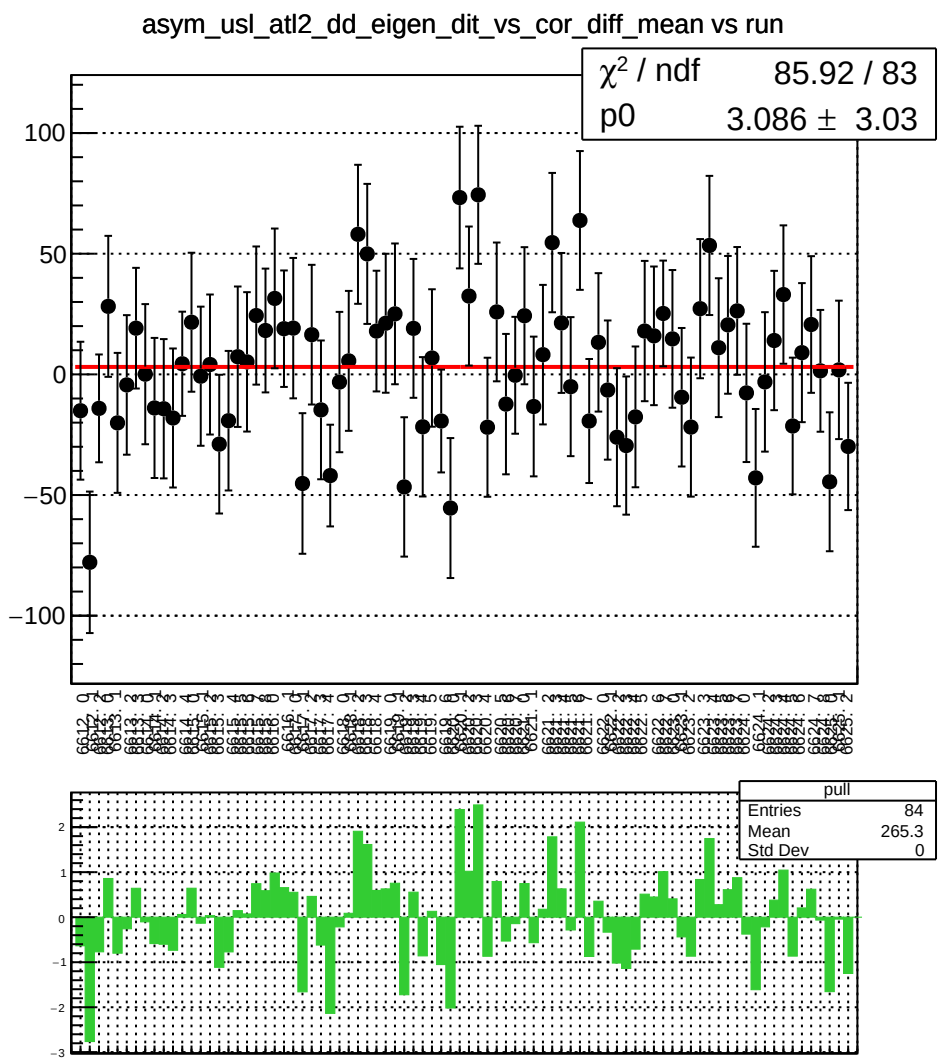

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.92 / 83
p0 3.086 ± 3.03
100
50
0
−50
−100
pull
Entries 84
Mean 265.3
Std Dev 0
2
1
0
−1
−2
−3

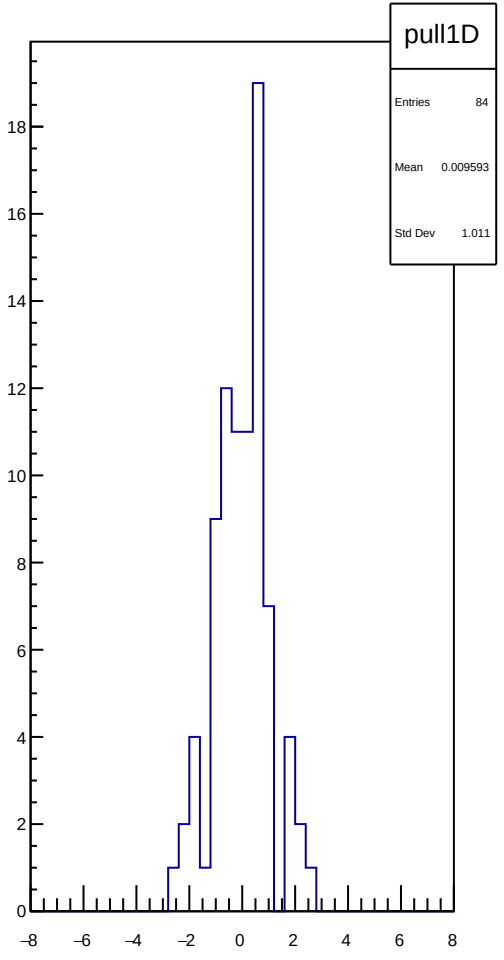

pull1D
Entries 84
Mean 0.009593
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

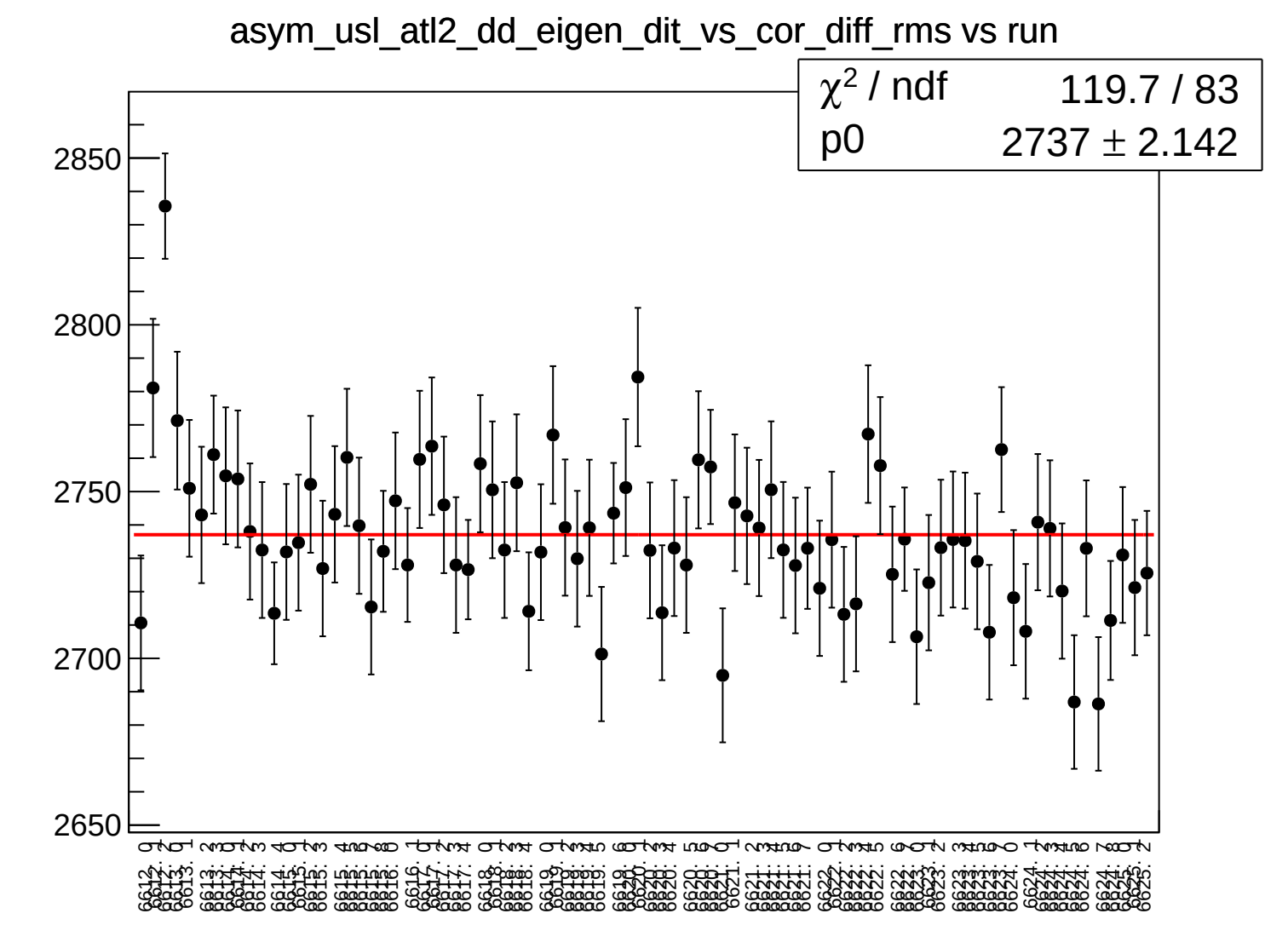

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 119.7 / 83
p0 2737 ± 2.142
2850
2800
2750
2700
2650

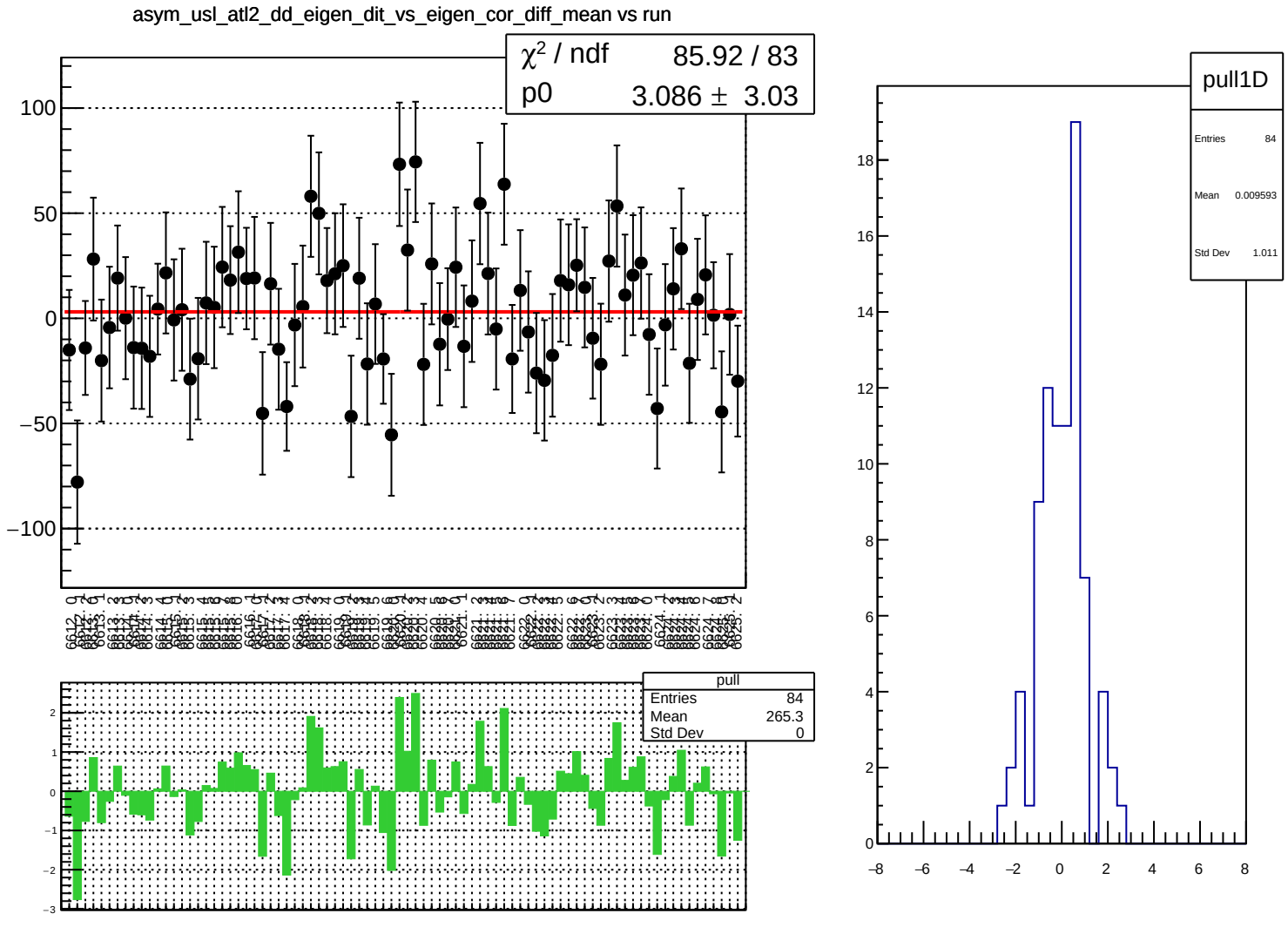

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

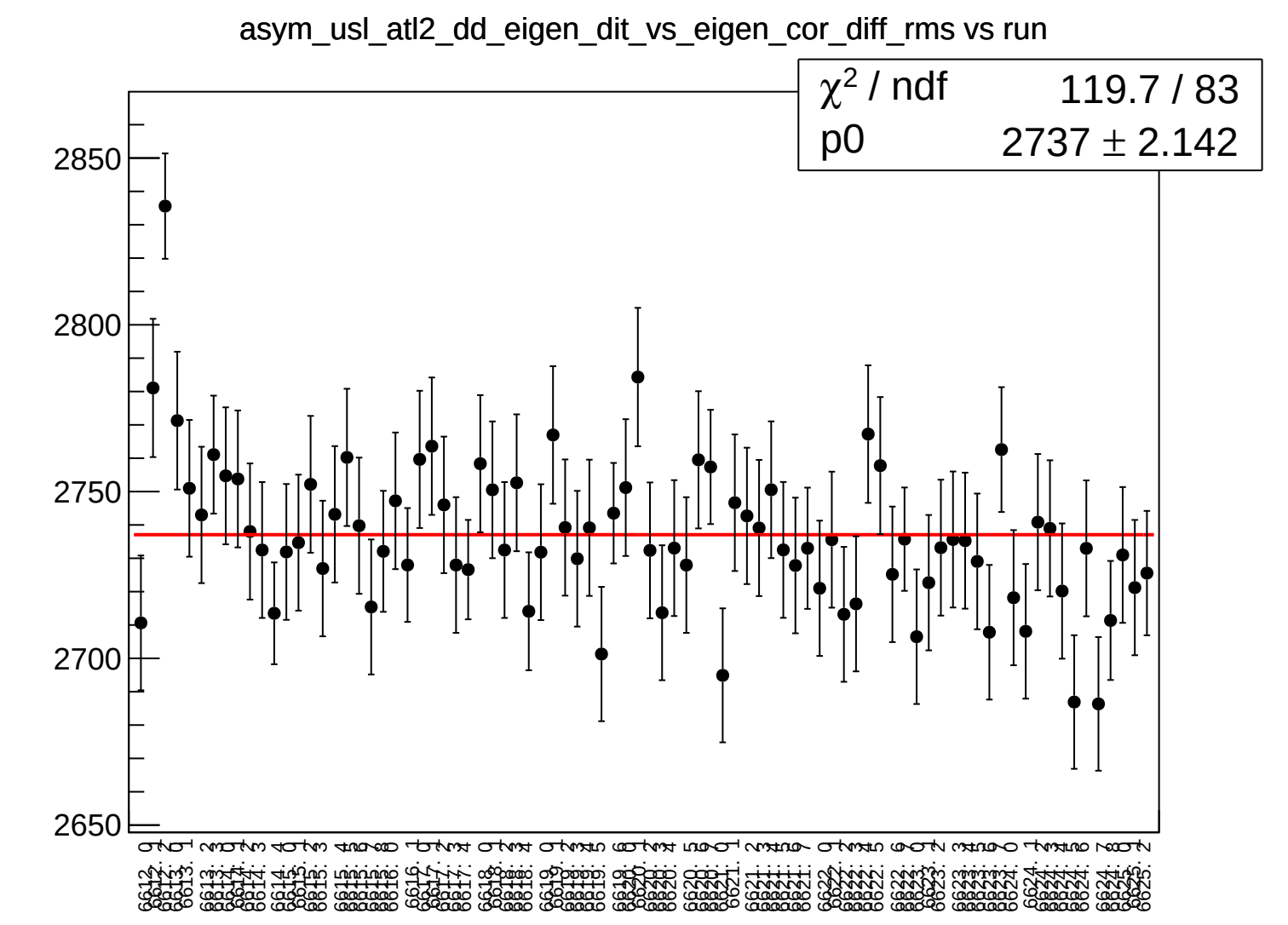

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

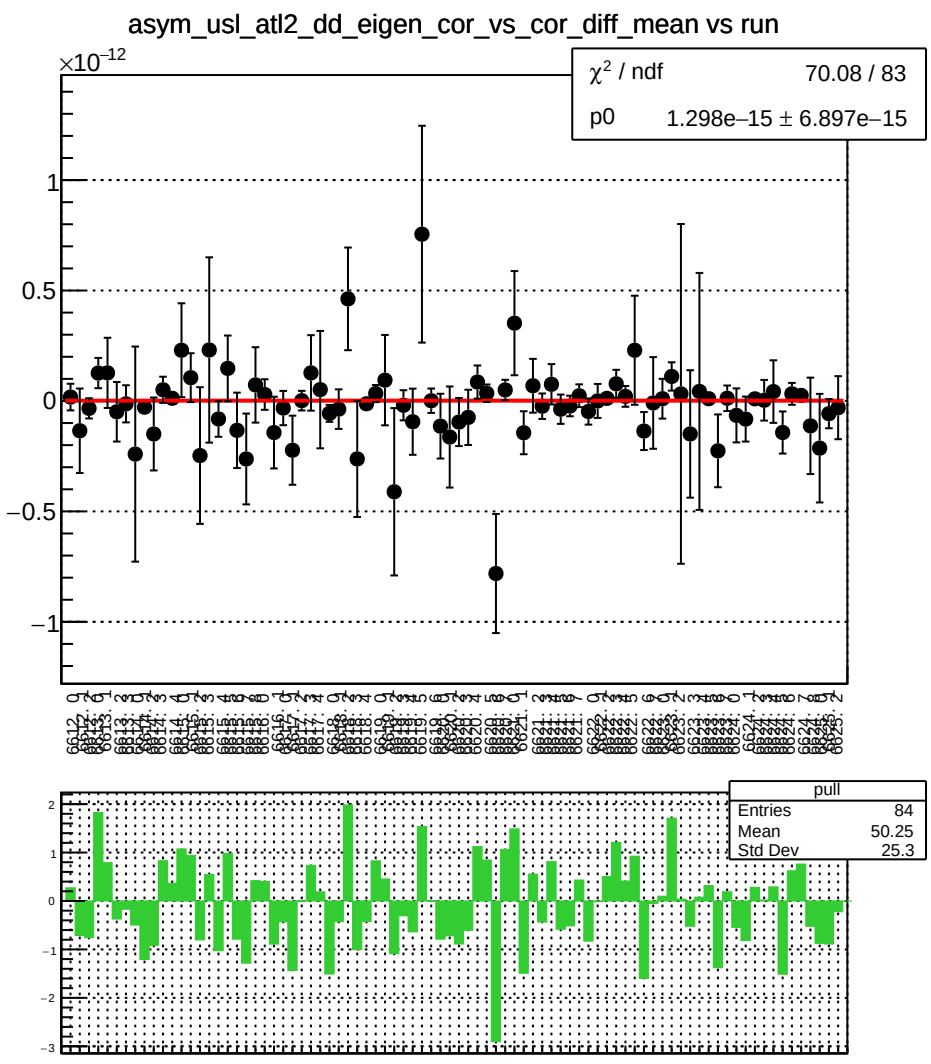

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.92 / 83
p0 3.086 ± 3.03
100
50
0
−50
−100
pull
Entries 84
Mean 265.3
Std Dev 0
2
1
0
−1
−2
−3

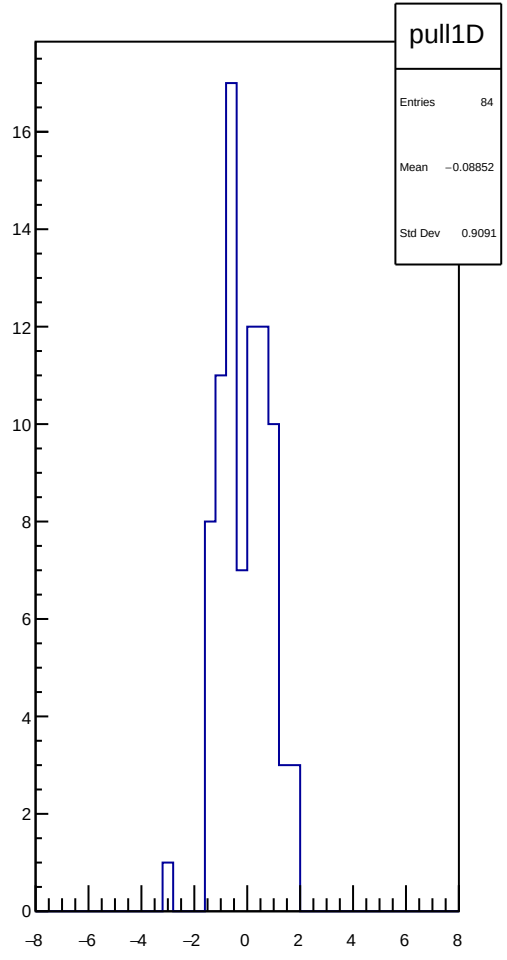

pull1D
Entries 84
Mean 0.009593
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

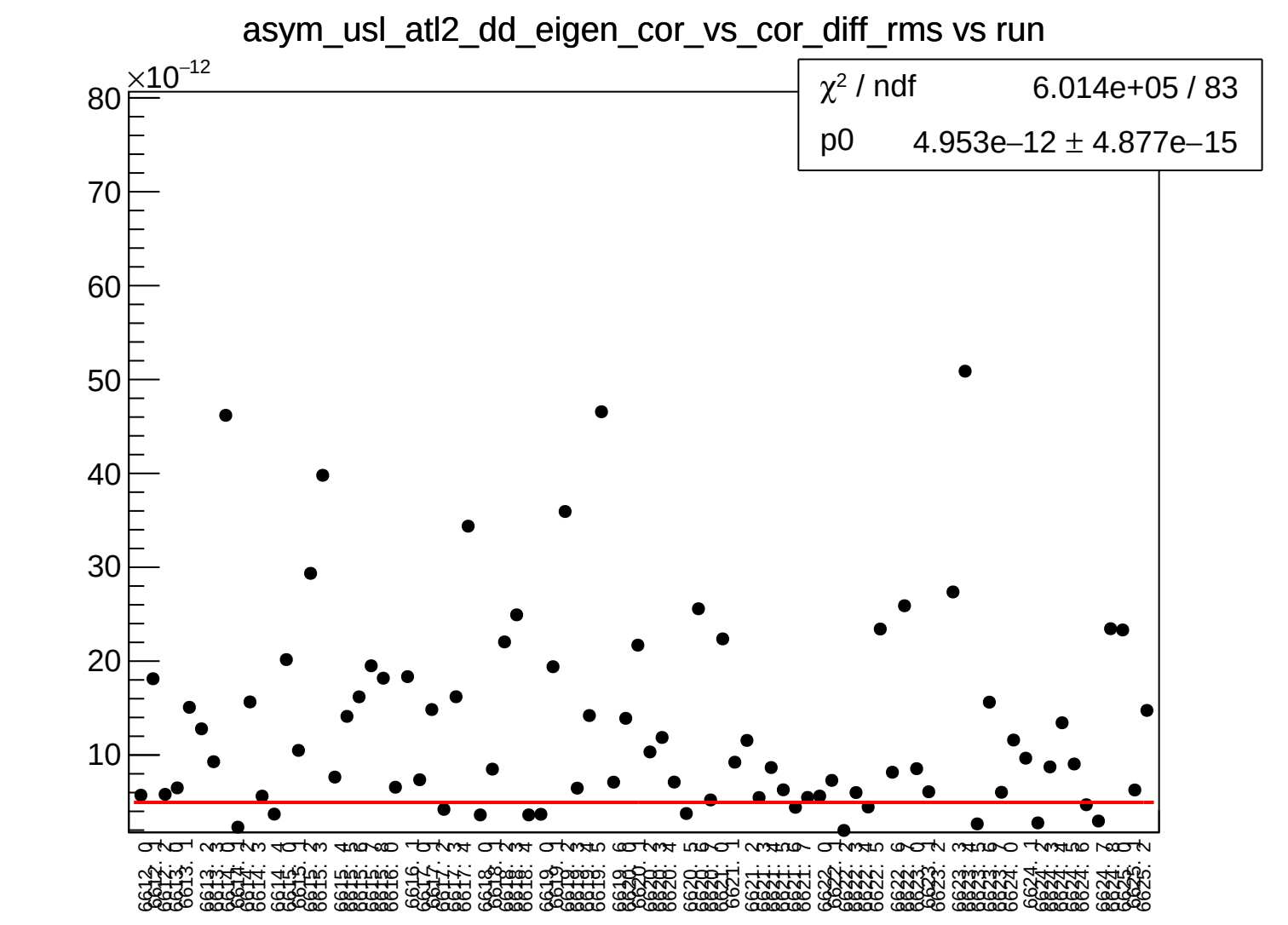

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 119.7 / 83
p0 2737 ± 2.142
2850
2800
2750
2700
2650

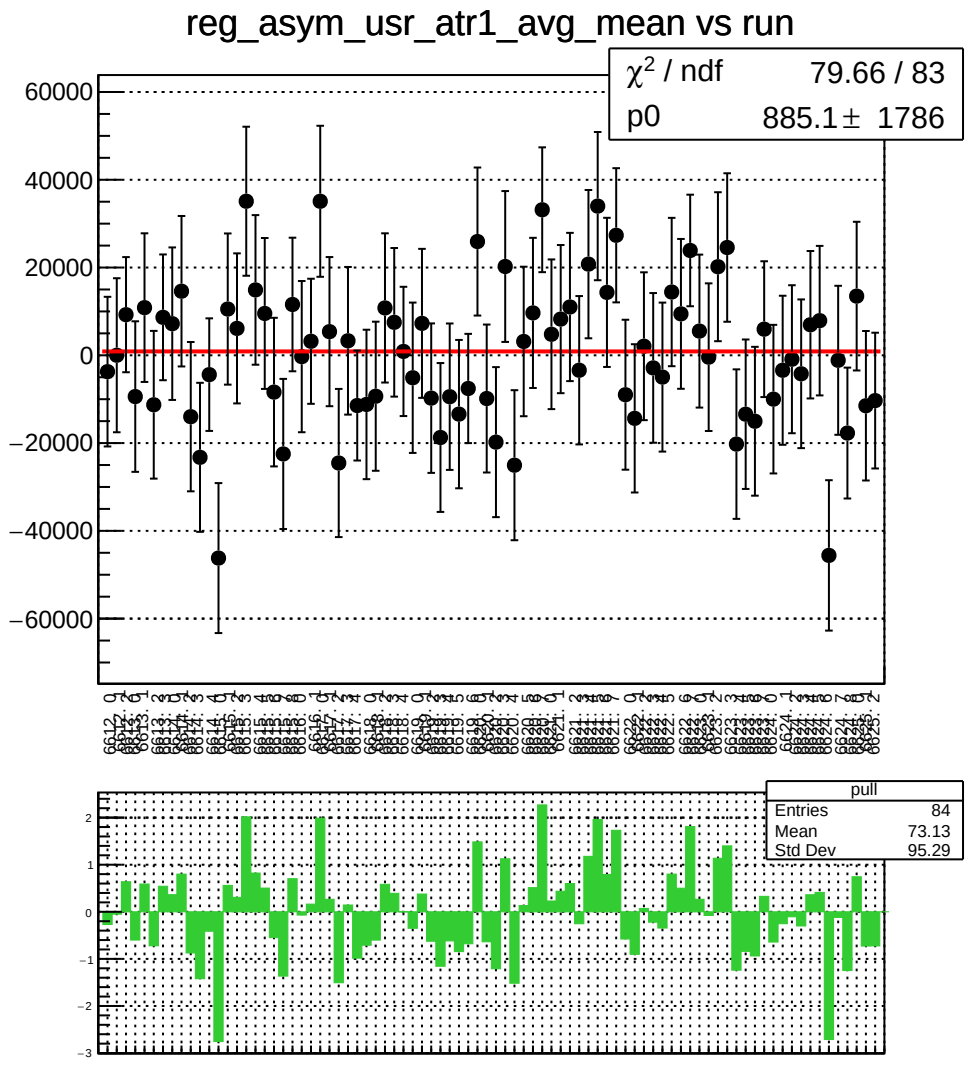

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.92 / 83
p0 3.086 ± 3.03
100
50
0
−50
−100
pull
Entries 84
Mean 265.3
Std Dev 0
pull1D
Entries 84
Mean 0.009593
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

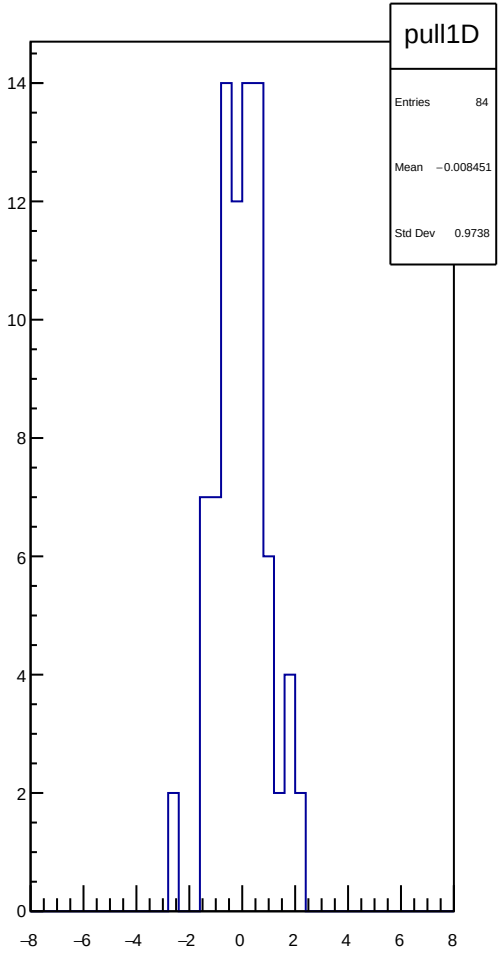

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 119.7 / 83
p0 2737 ± 2.142
2850
2800
2750
2700
2650

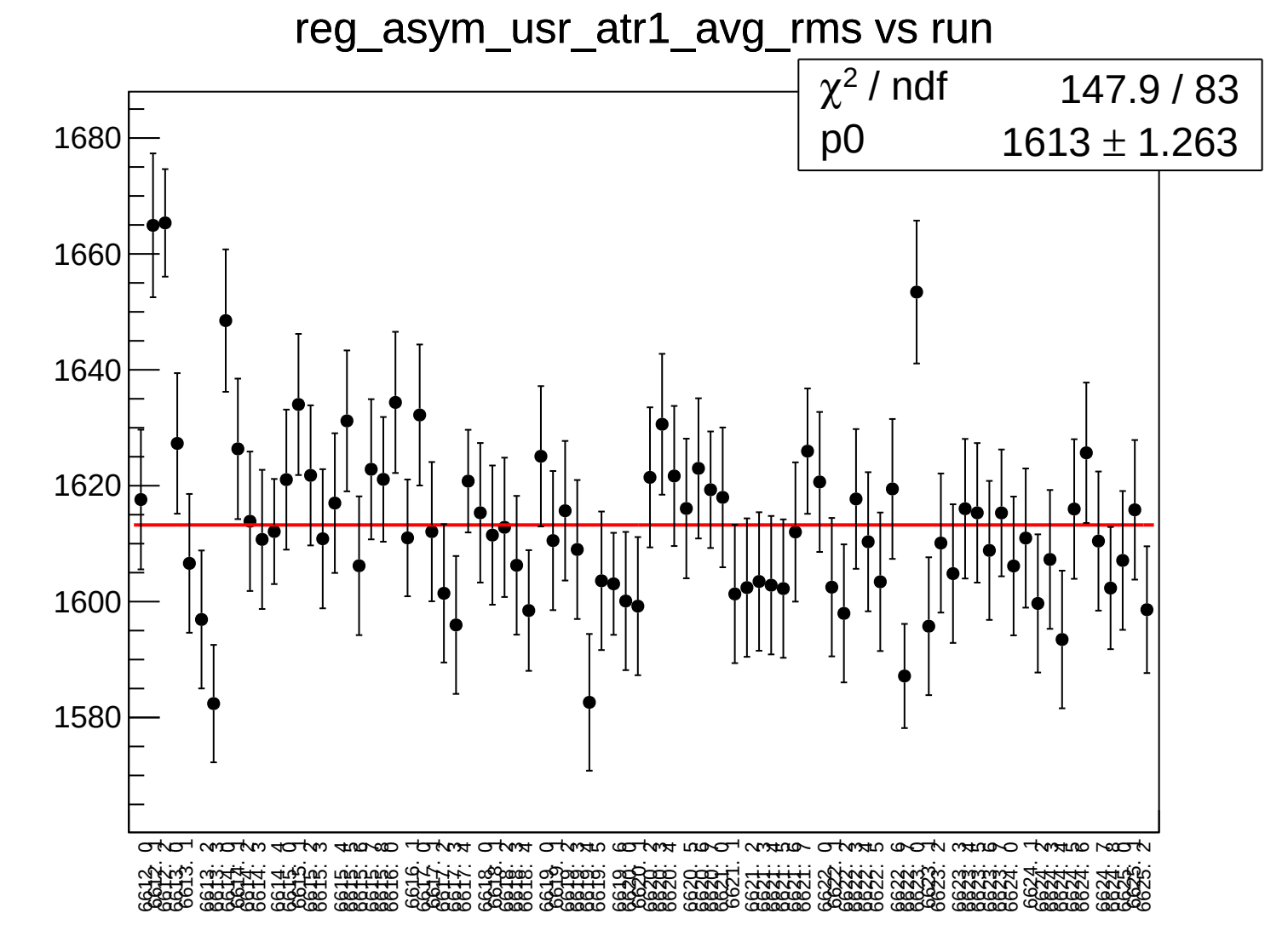

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.08 / 83
p0 1.298e−15 ± 6.897e−15
pull
Entries 84
Mean 50.25
Std Dev 25.3

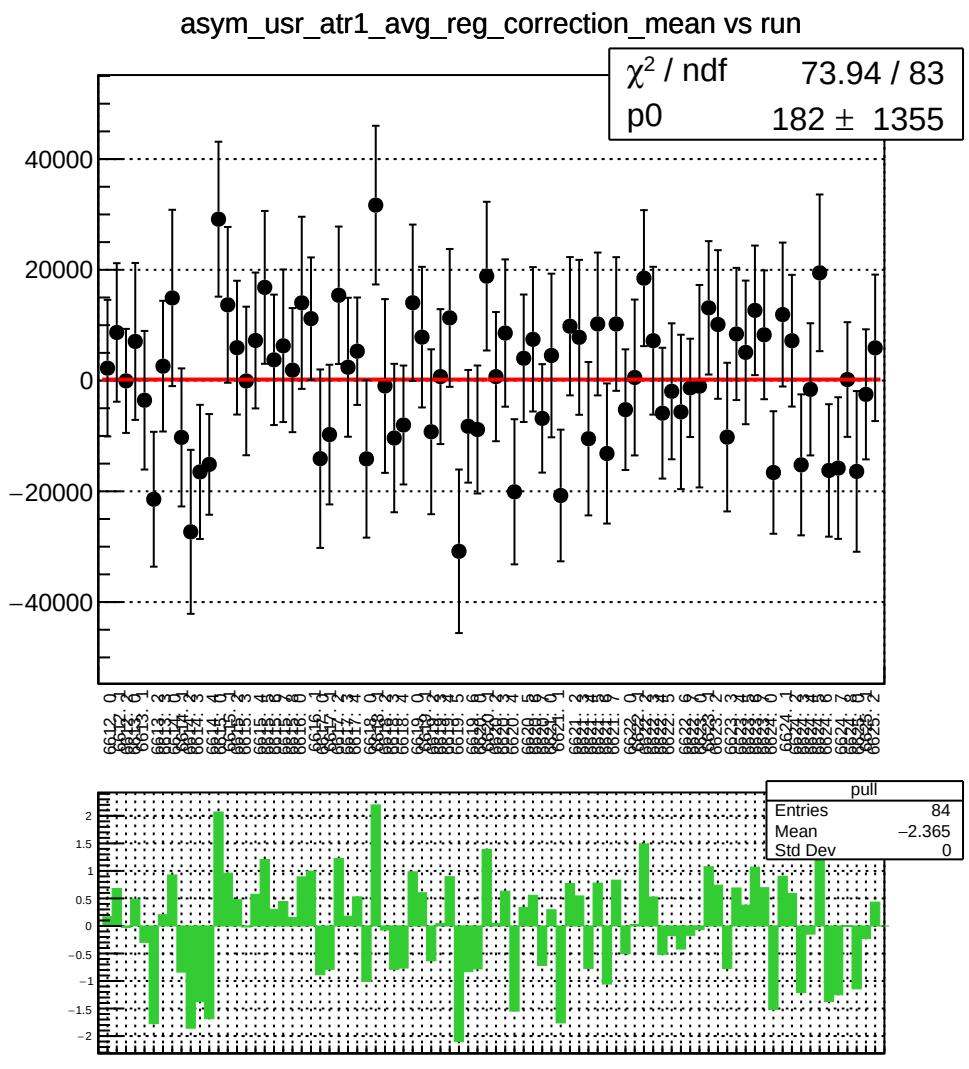

pull1D
Entries 84
Mean −0.08852
Std Dev 0.9091

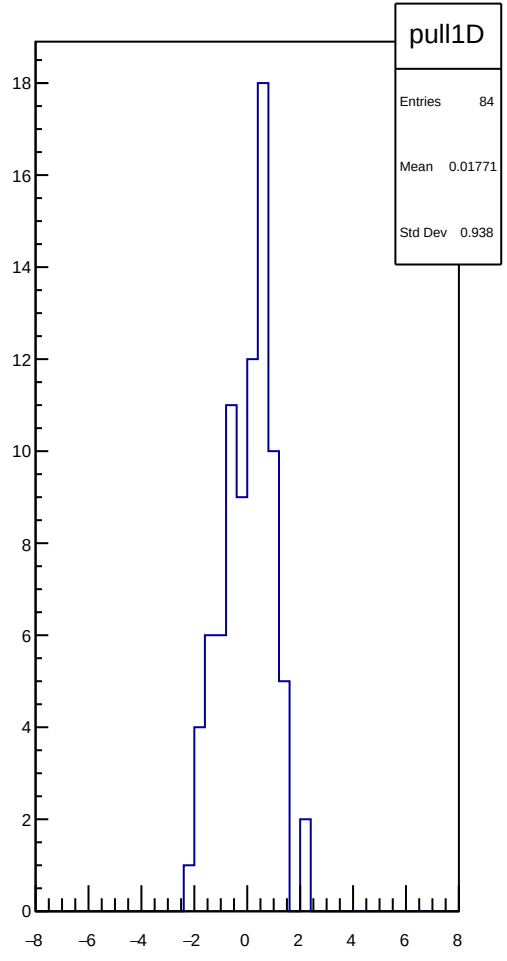

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.014e+05 / 83
p0 4.953e−12 ± 4.877e−15
80
70
60
50
40
30
20
10

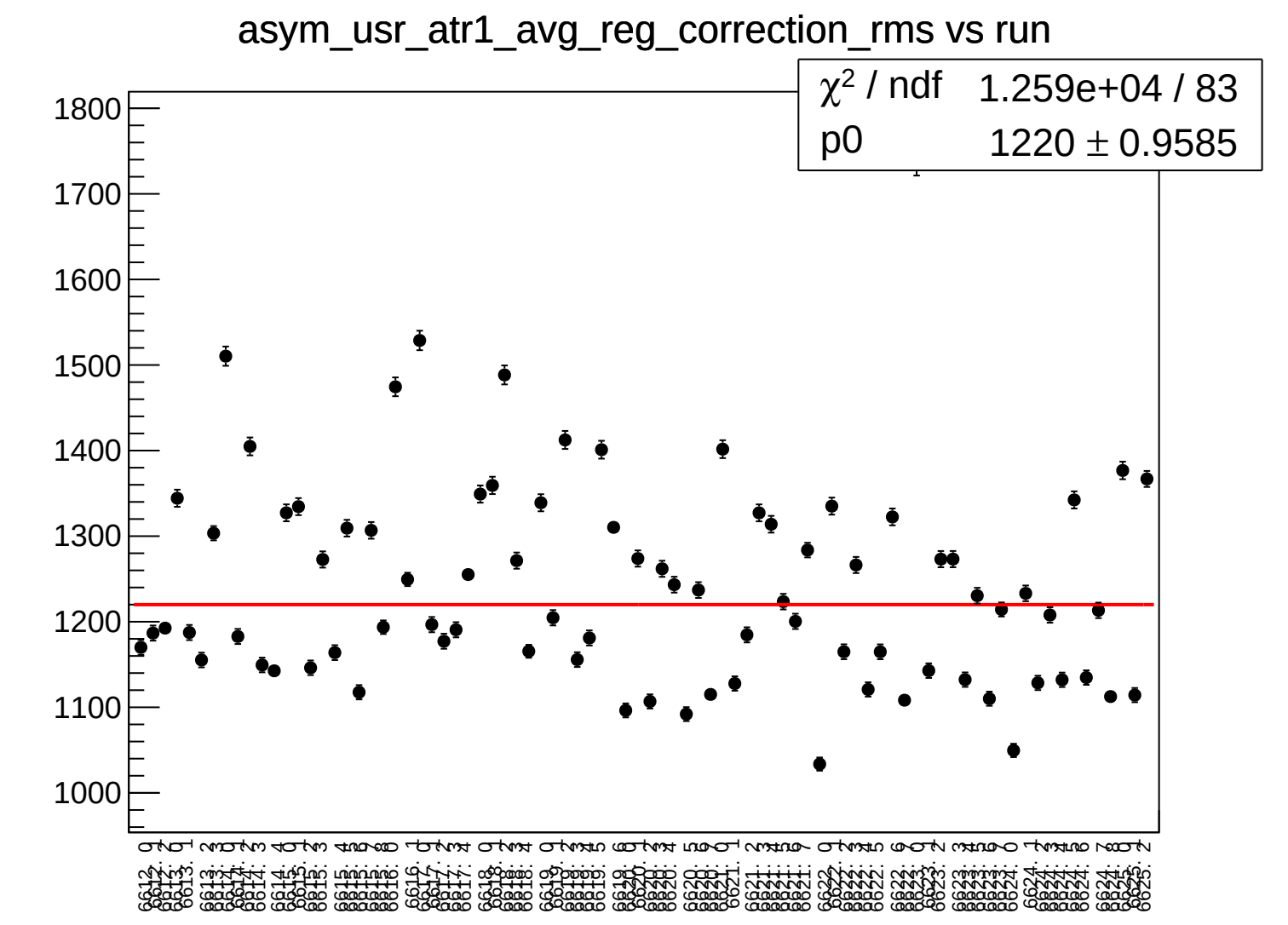

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 79.66 / 83
p0 885.1 ± 1786
pull
Entries 84
Mean 73.13
Std Dev 95.29

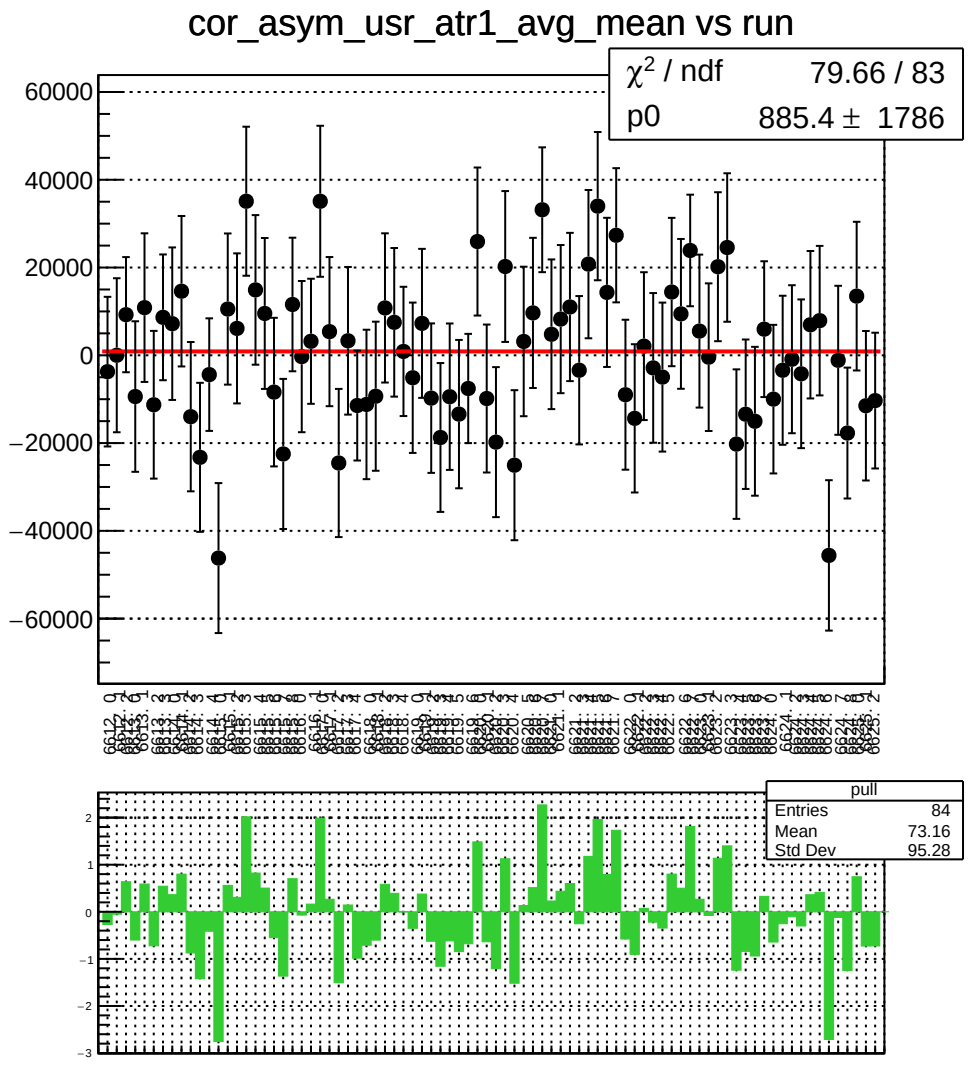

pull1D
Entries 84
Mean −0.008451
Std Dev 0.9738

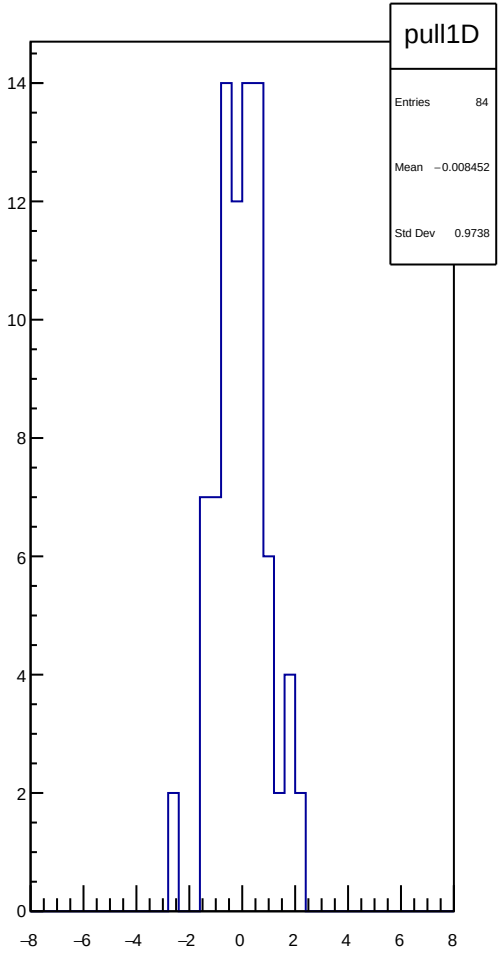

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 147.9 / 83
p0 1613 ± 1.263
1680
1660
1640
1620
1600
1580

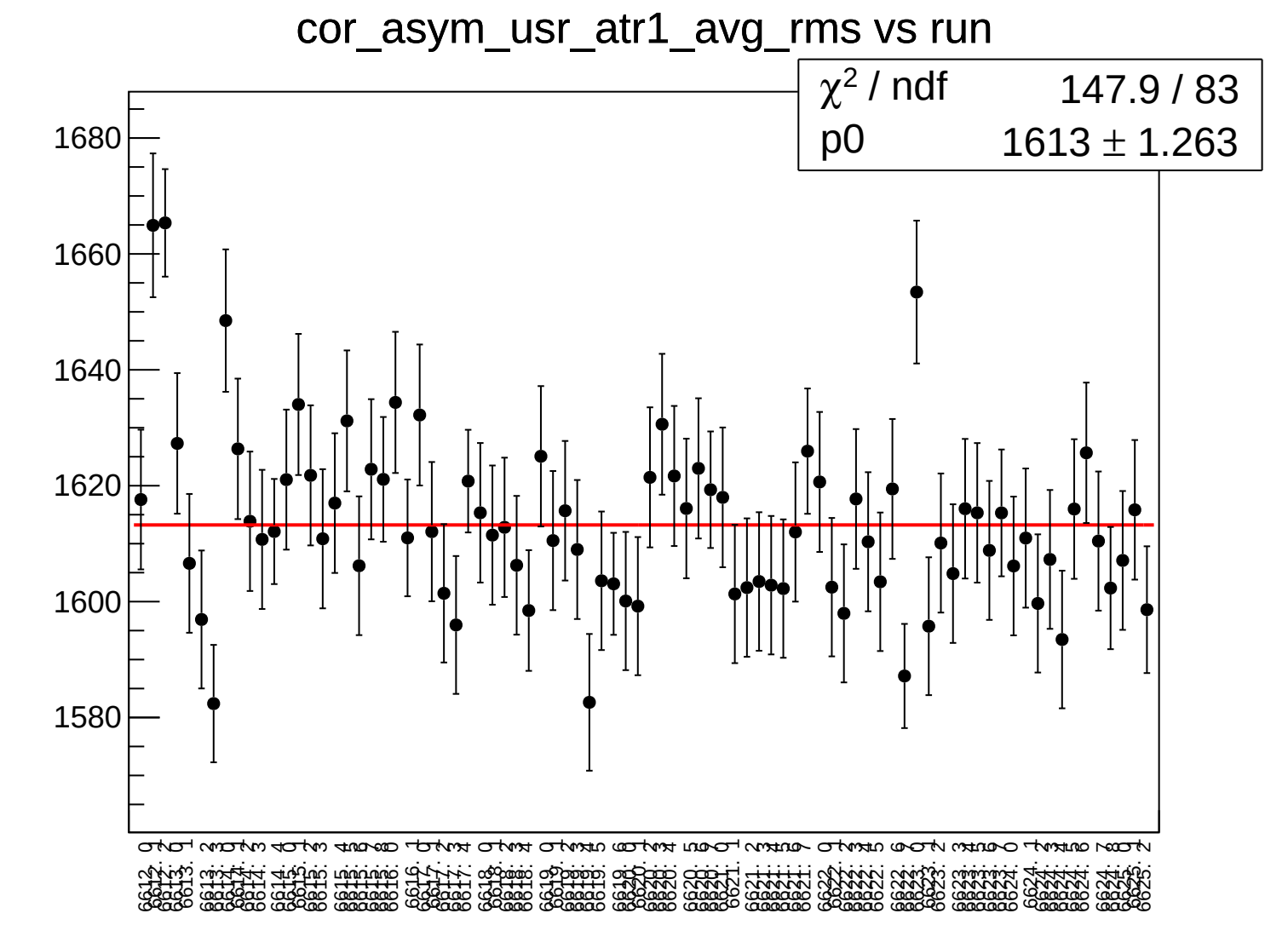

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 73.94 / 83
p0 182 ± 1355
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −2.365
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

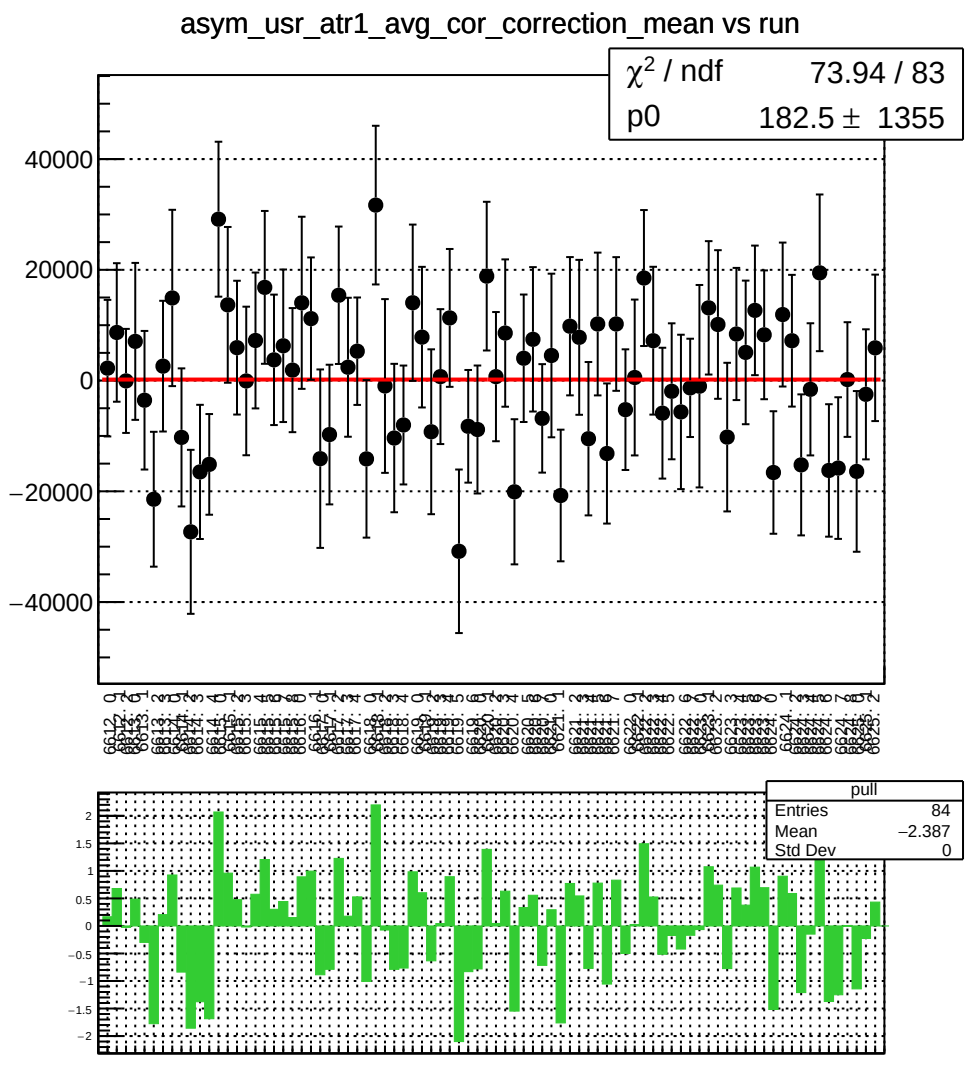

pull1D
Entries 84
Mean 0.01771
Std Dev 0.938
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

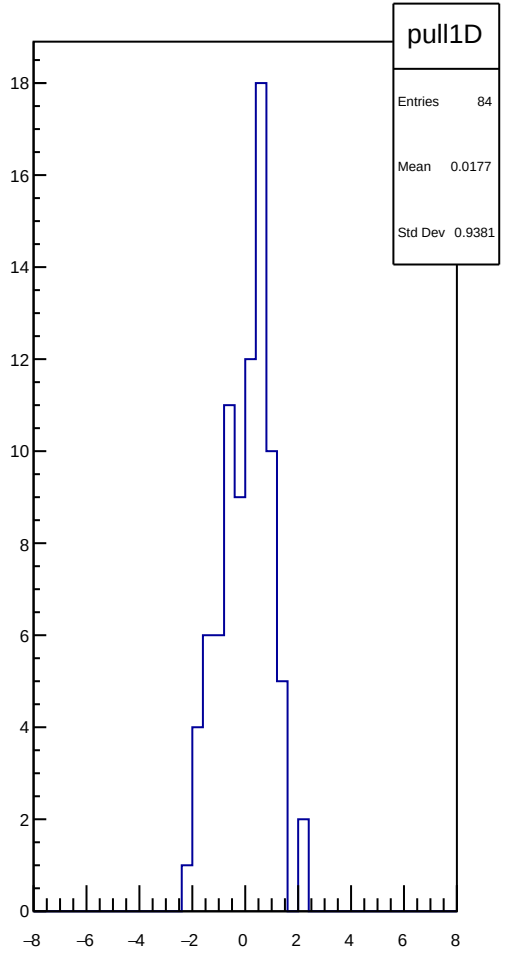

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 1.259e+04 / 83
p0 1220 ± 0.9585
1800
1700
1600
1500
1400
1300
1200
1100
1000

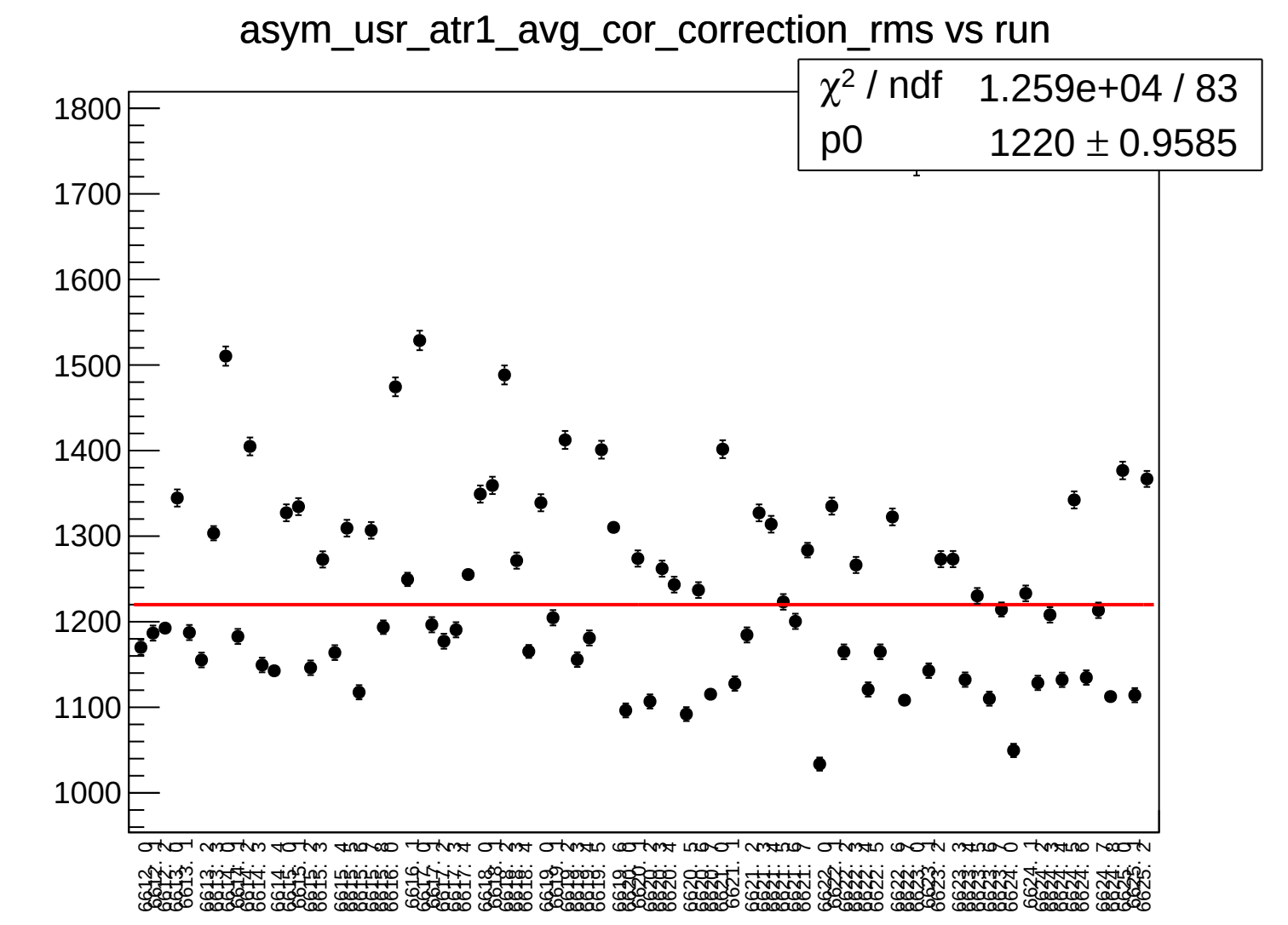

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 79.66 / 83
p0 885.4 ± 1786
pull
Entries 84
Mean 73.16
Std Dev 95.28

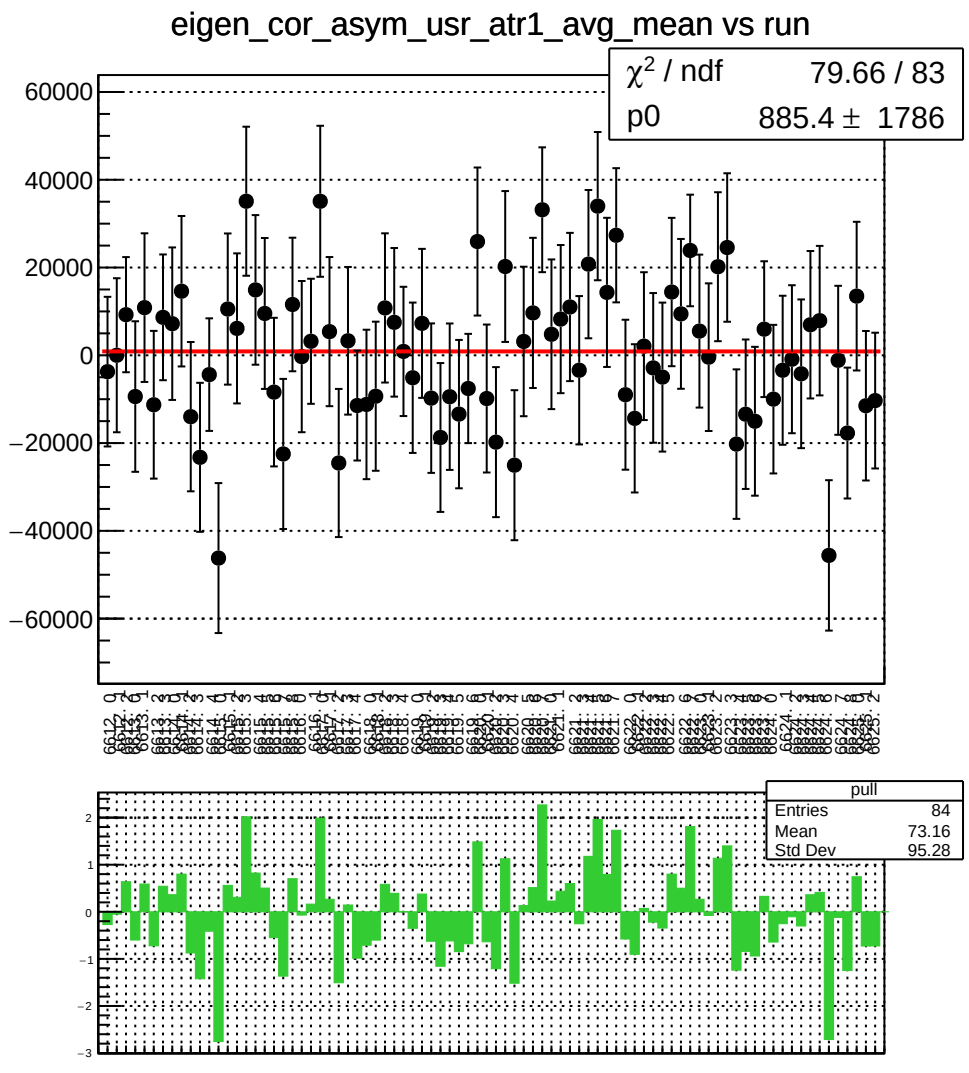

pull1D
Entries 84
Mean −0.008452
Std Dev 0.9738

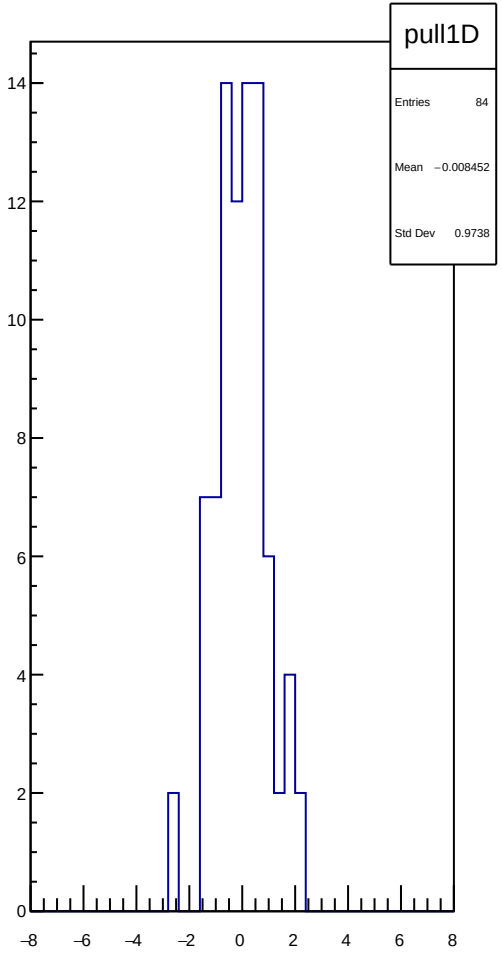

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 147.9 / 83
p0 1613 ± 1.263
1680
1660
1640
1620
1600
1580

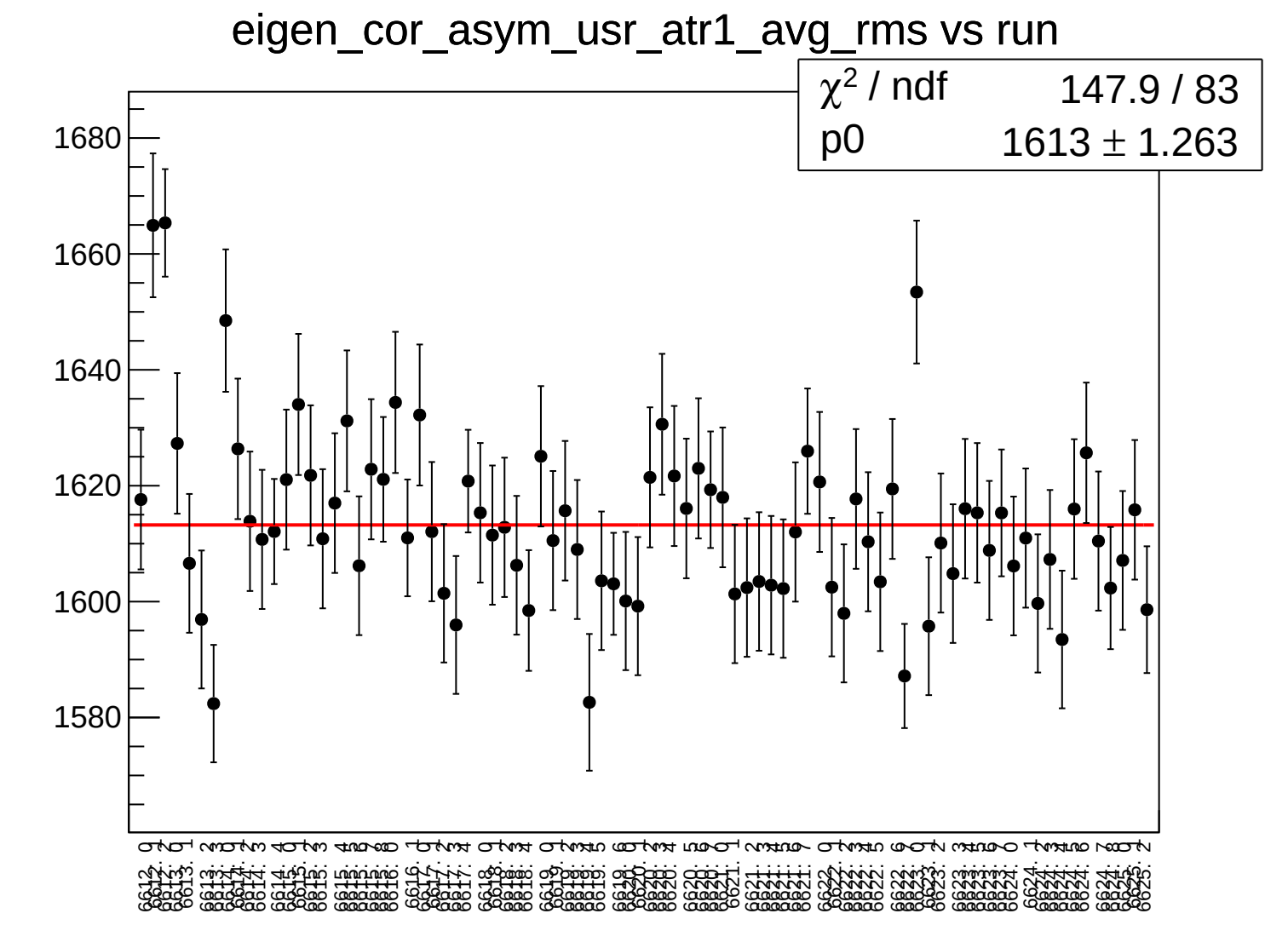

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 73.94 / 83
p0 182.5 ± 1355
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −2.387
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

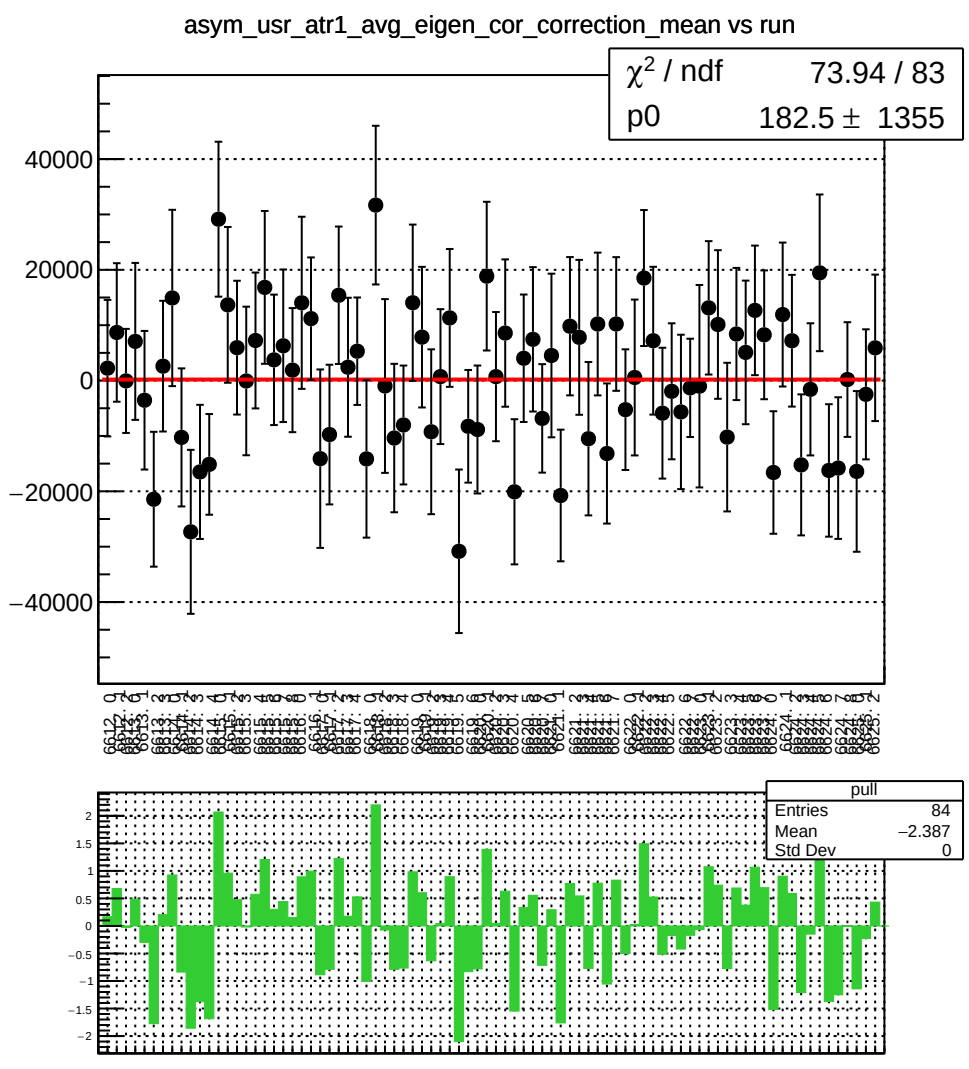

pull1D
Entries 84
Mean 0.0177
Std Dev 0.9381
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

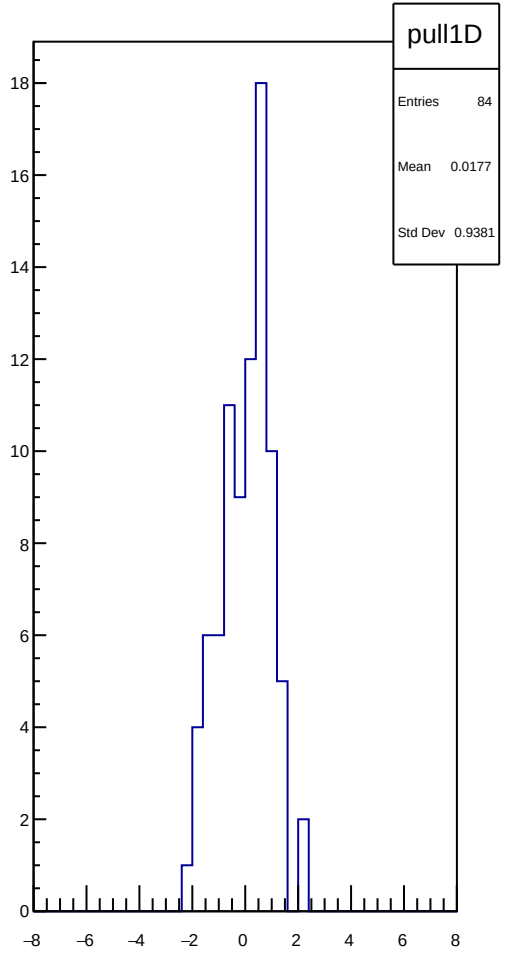

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 1.259e+04 / 83
p0 1220 ± 0.9585
1800
1700
1600
1500
1400
1300
1200
1100
1000

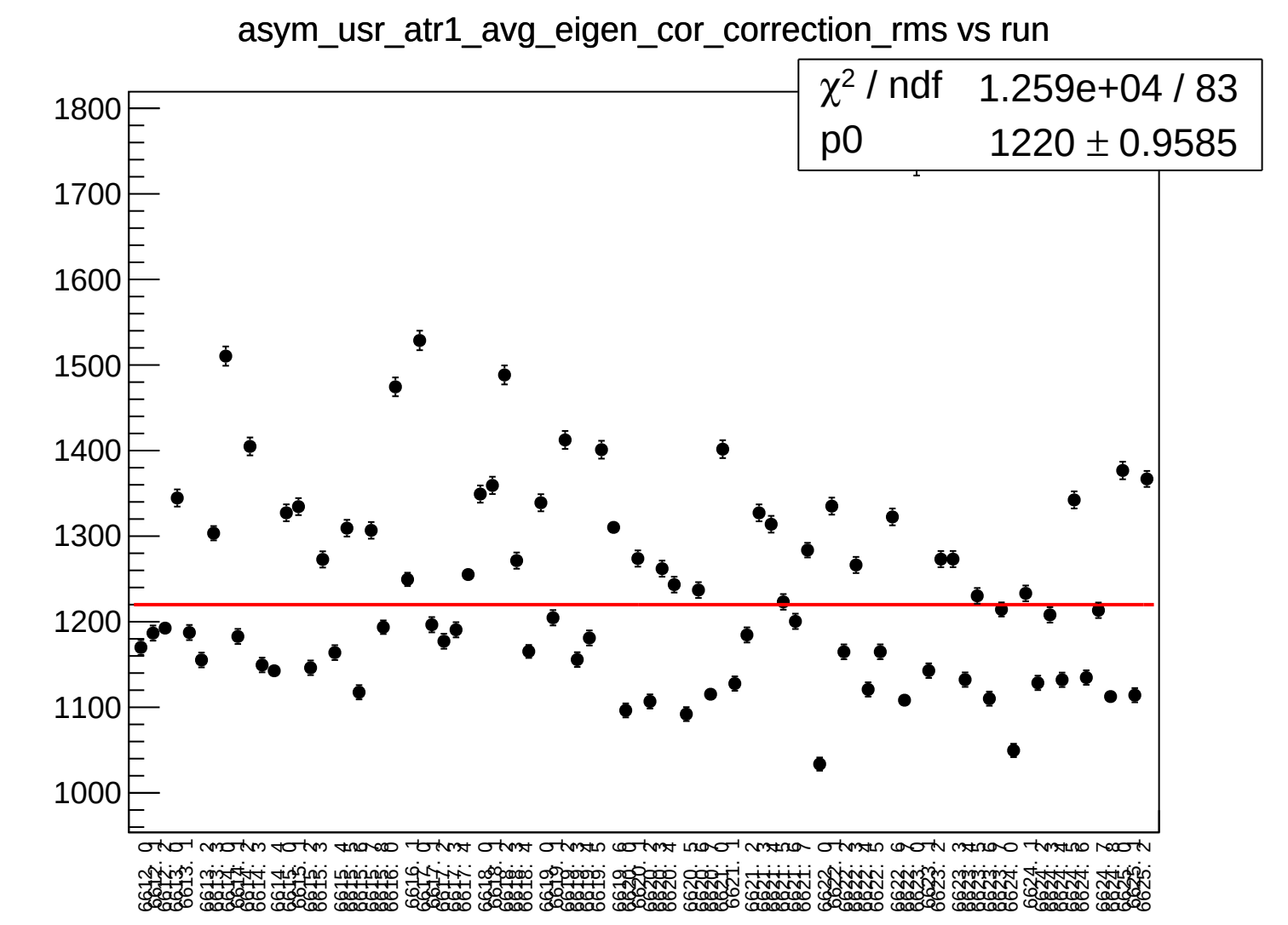

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 79.66 / 83
p0 885.4 ± 1786
pull
Entries 84
Mean 73.16
Std Dev 95.28

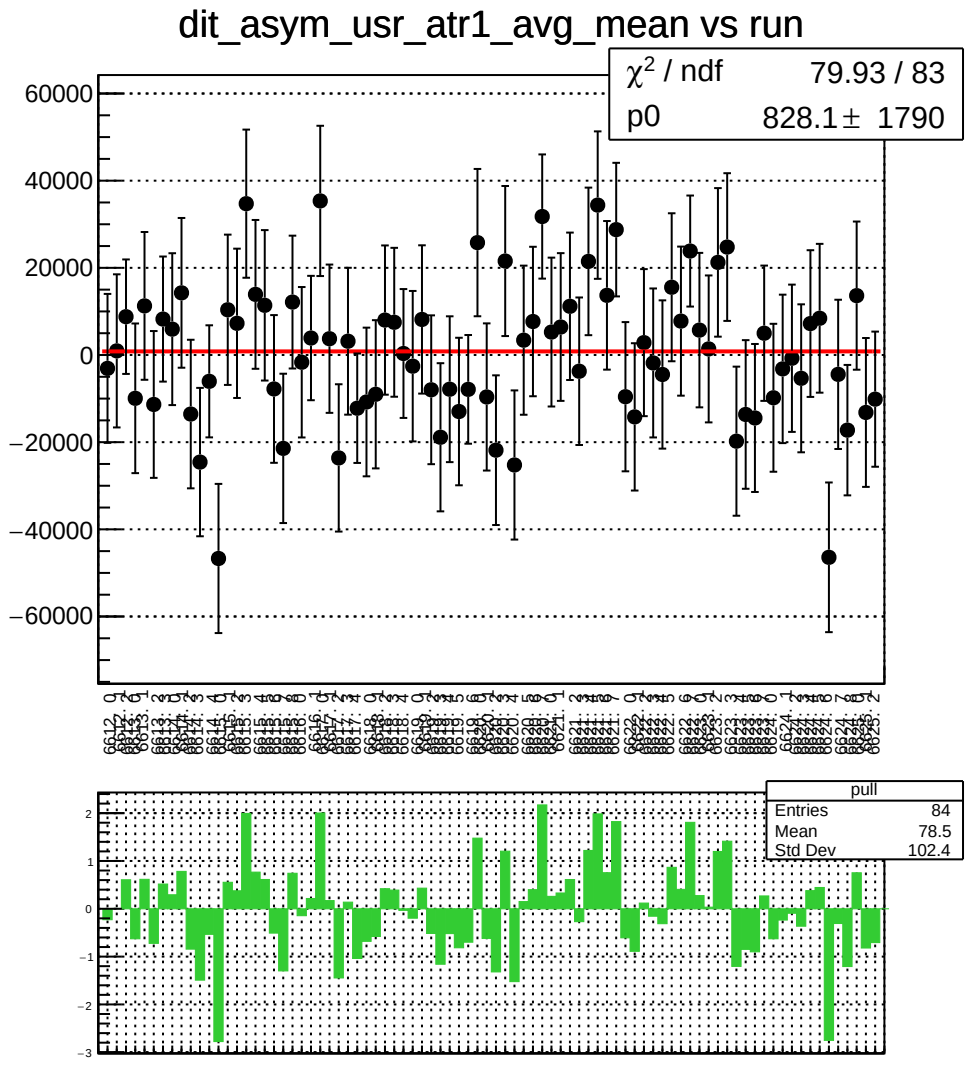

pull1D
Entries 84
Mean −0.008452
Std Dev 0.9738

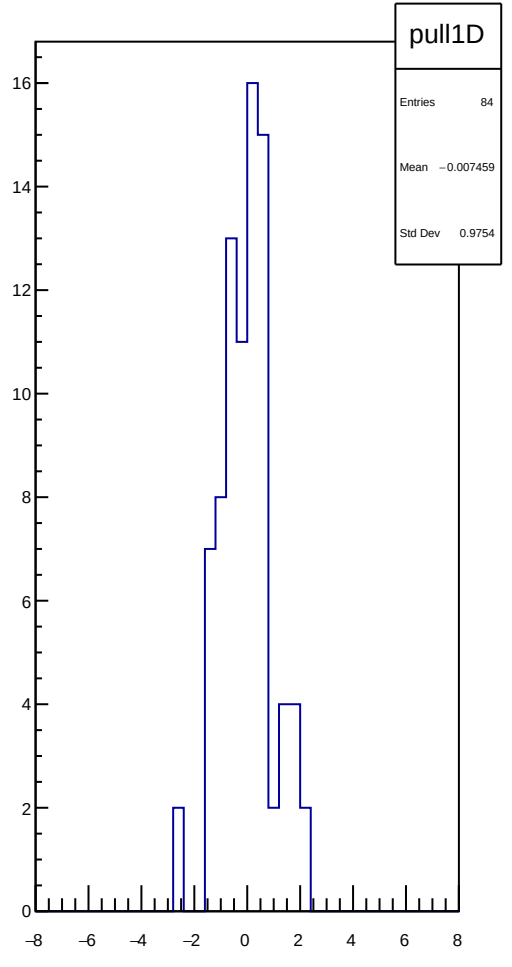

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 147.9 / 83
p0 1613 ± 1.263
1680
1660
1640
1620
1600
1580

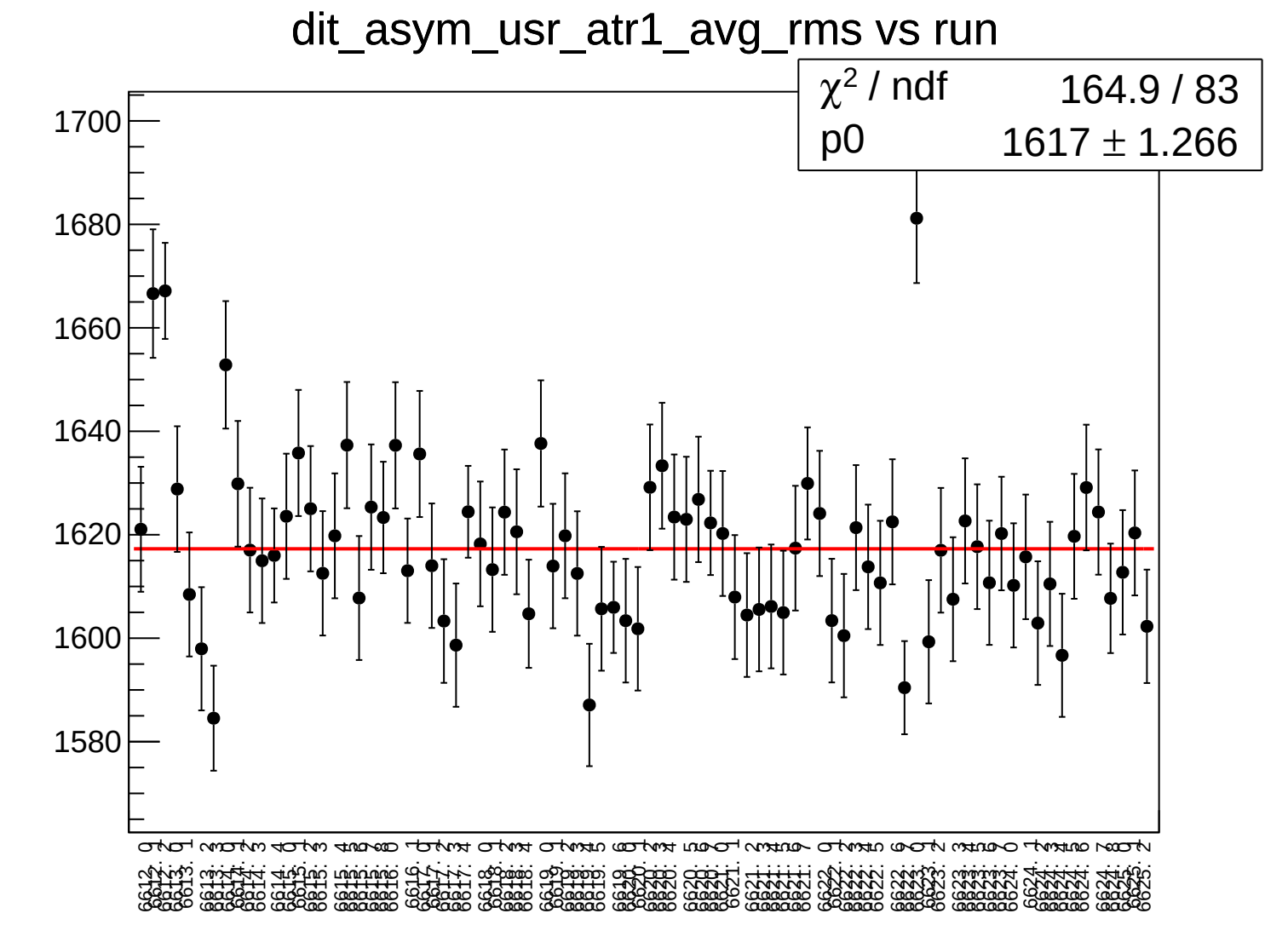

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 73.94 / 83
p0 182.5 ± 1355
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −2.387
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

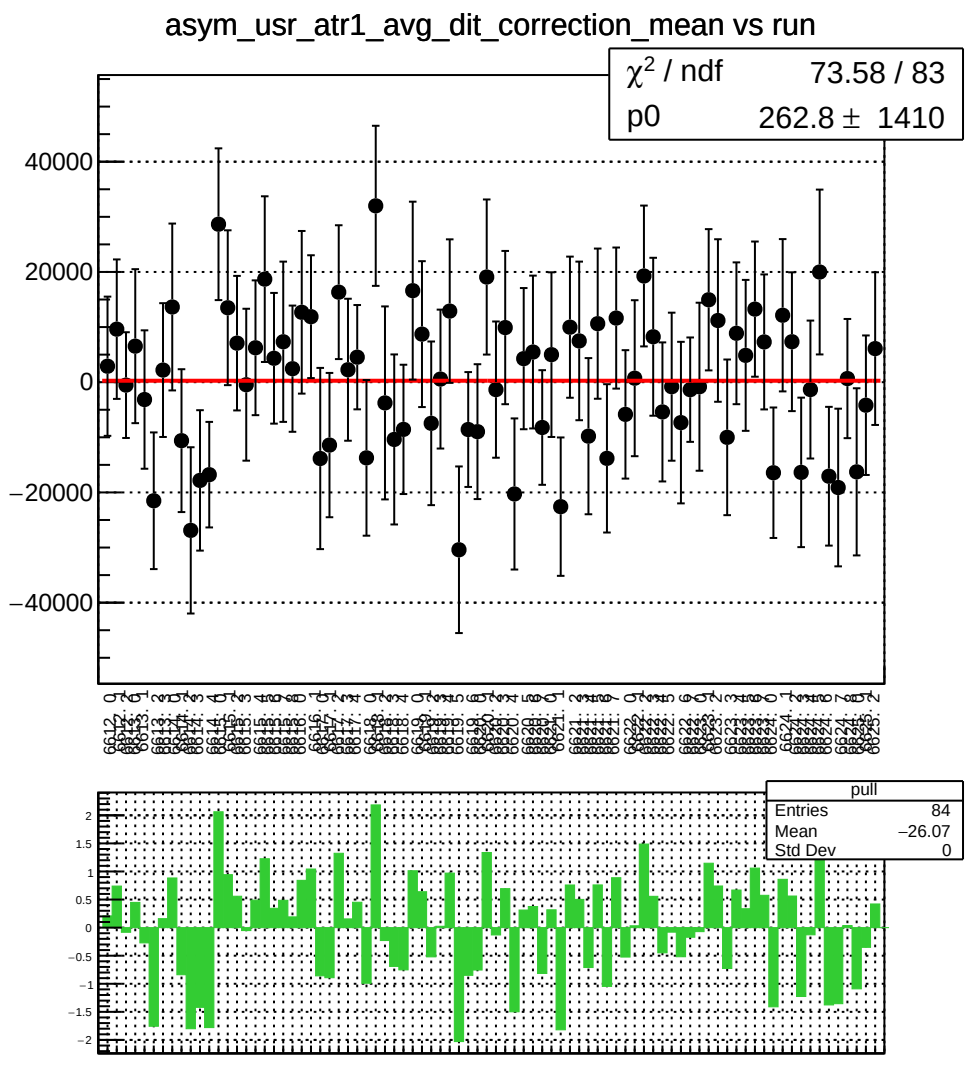

pull1D
Entries 84
Mean 0.0177
Std Dev 0.9381
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

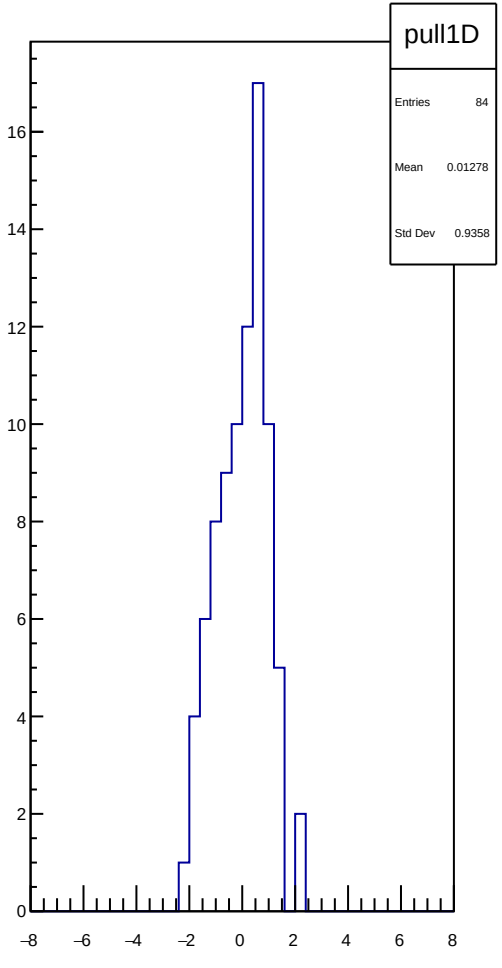

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.259e+04 / 83
p0 1220 ± 0.9585
1800
1700
1600
1500
1400
1300
1200
1100
1000

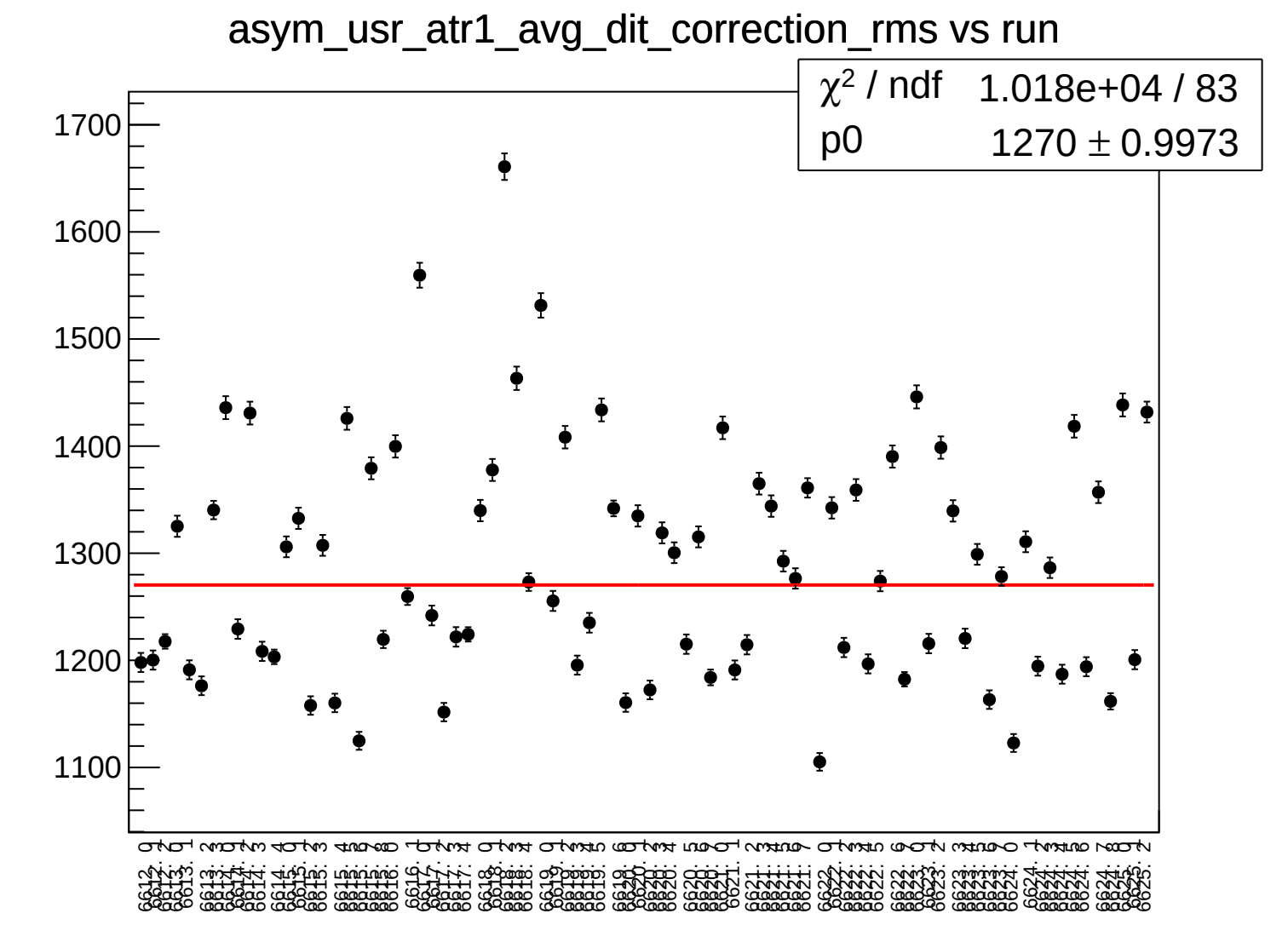

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 79.93 / 83
p0 828.1 ± 1790
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 78.5
Std Dev 102.4
2
1
0
−1
−2
−3

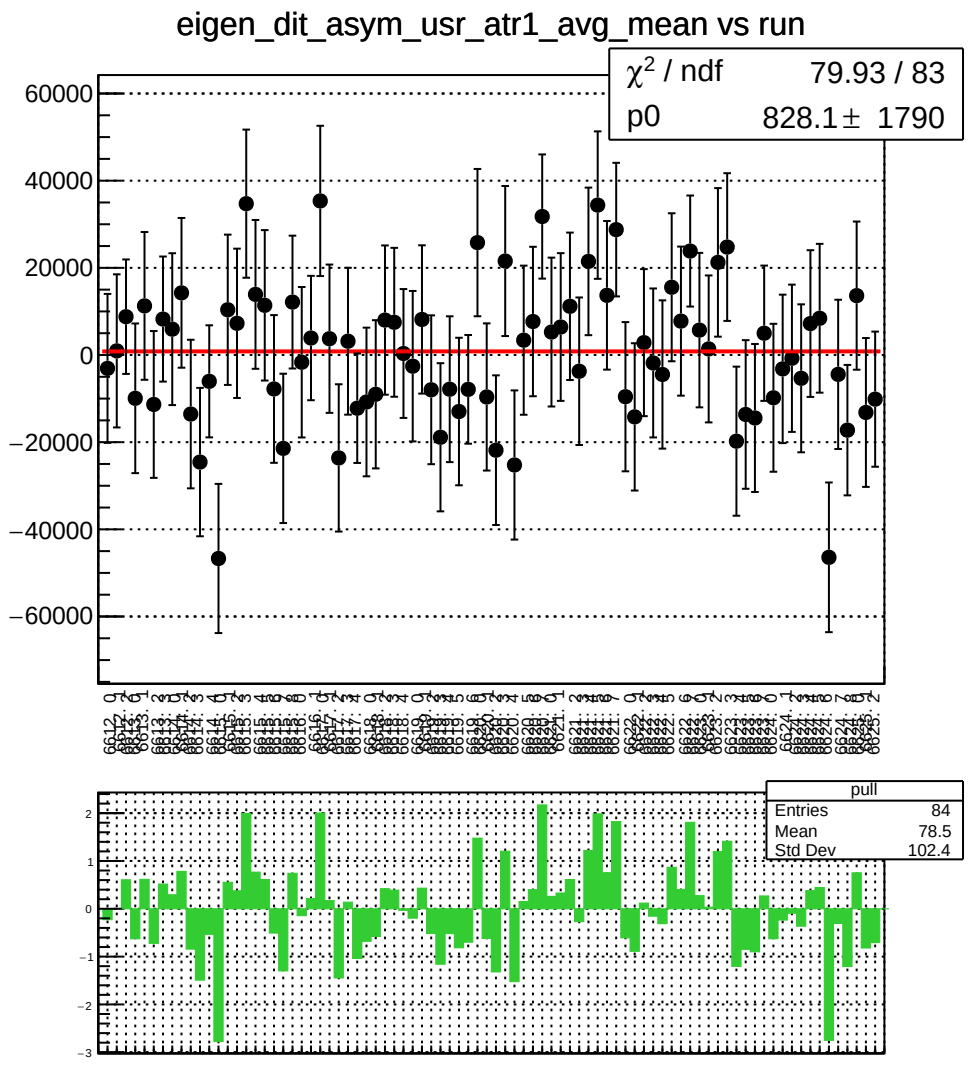

pull1D
Entries 84
Mean −0.007459
Std Dev 0.9754
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

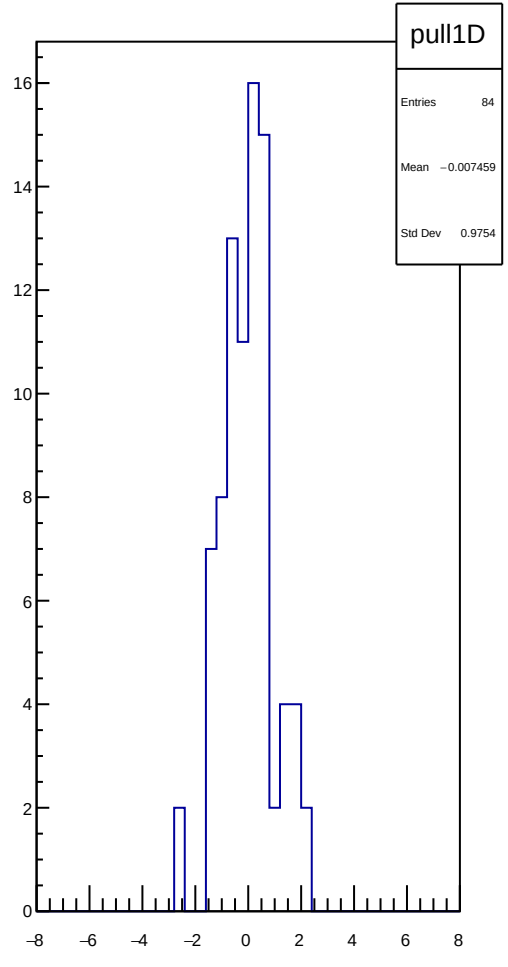

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 164.9 / 83
p0 1617 ± 1.266
1700
1680
1660
1640
1620
1600
1580

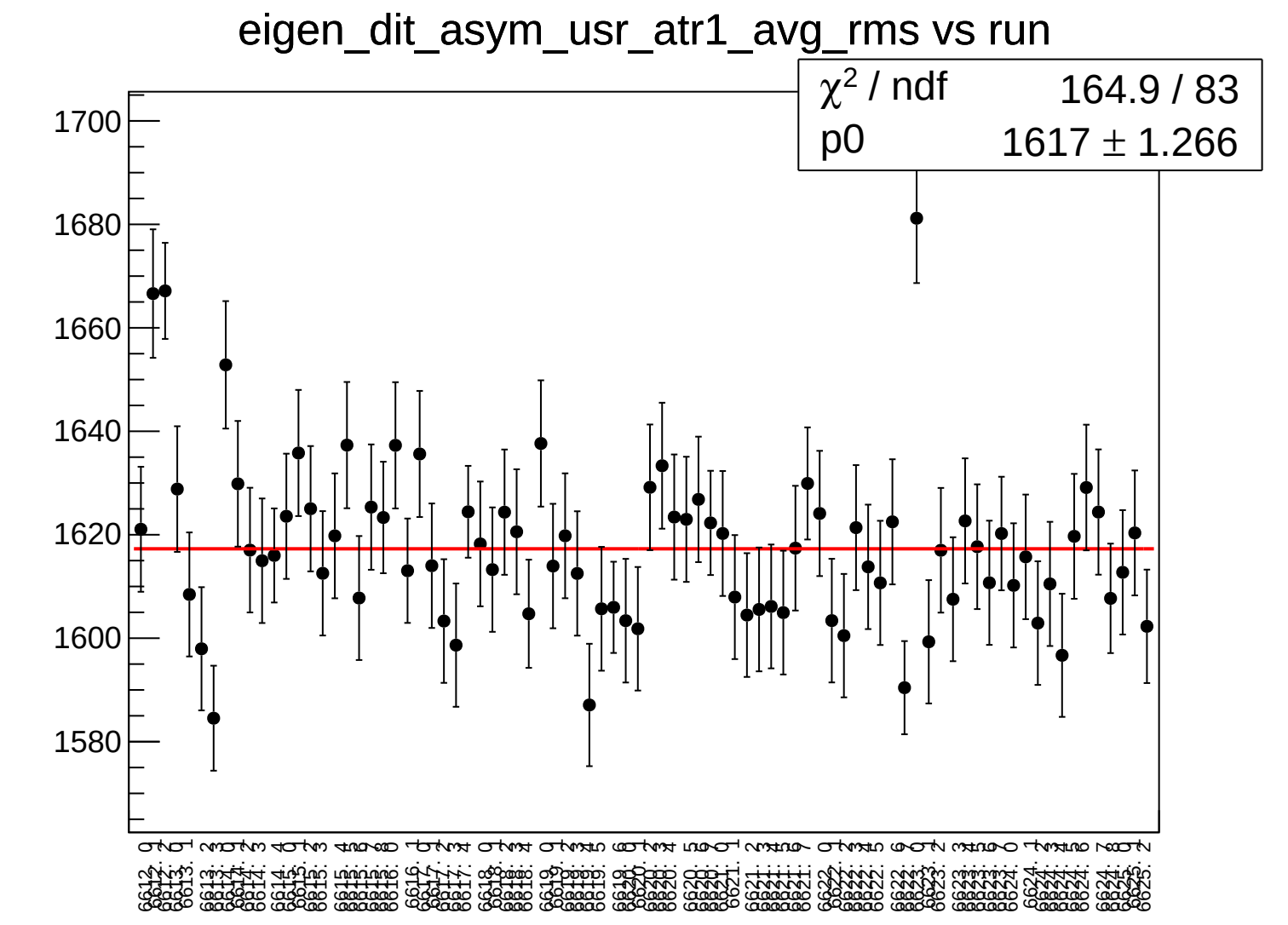

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 73.58 / 83
p0 262.8 ± 1410
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −26.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

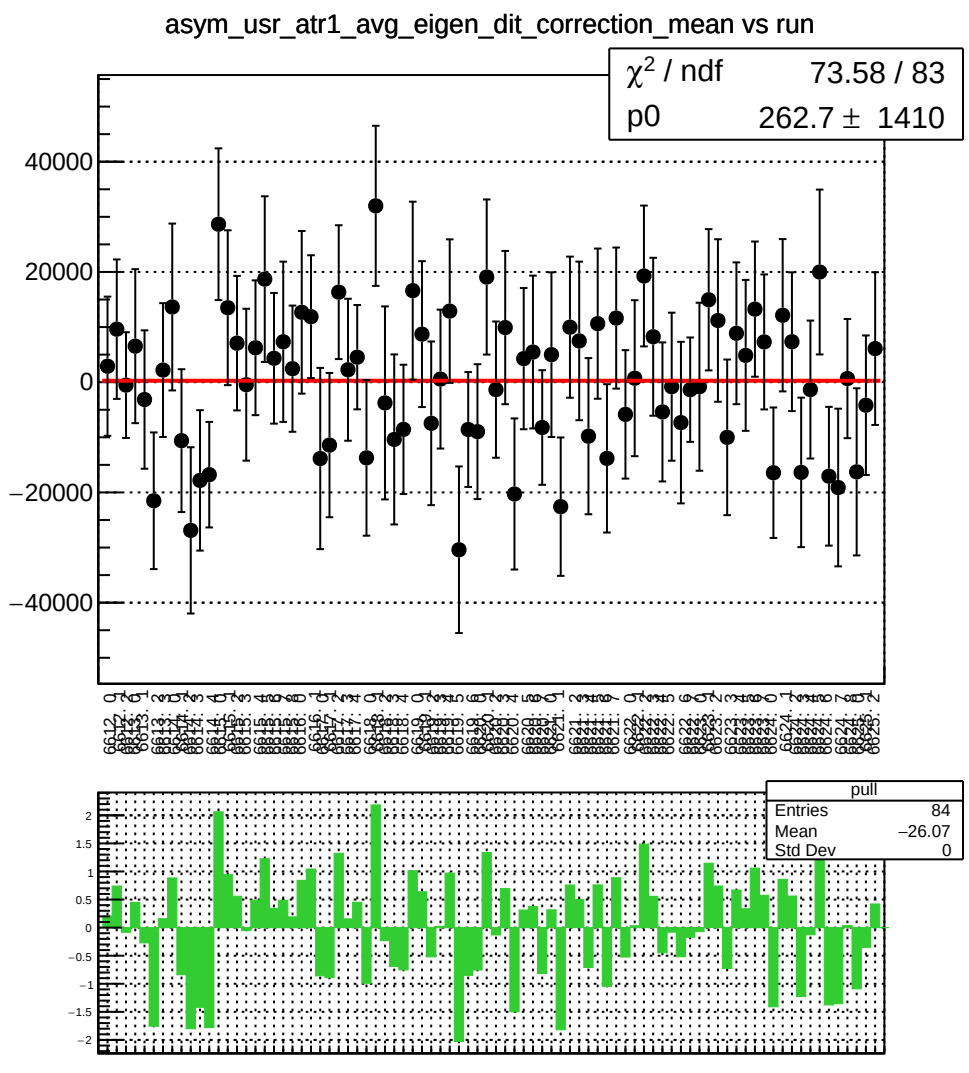

pull1D
Entries 84
Mean 0.01278
Std Dev 0.9358
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

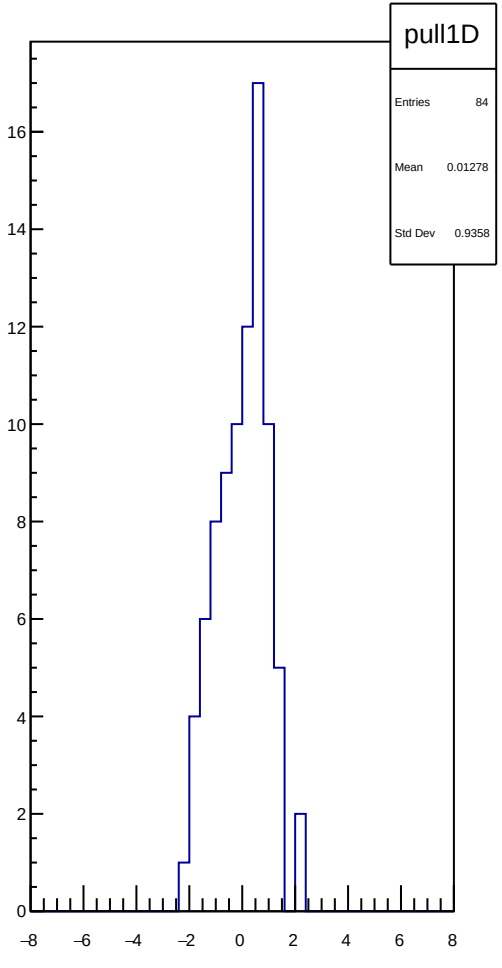

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 1.018e+04 / 83
p0 1270 ± 0.9973
1700
1600
1500
1400
1300
1200
1100

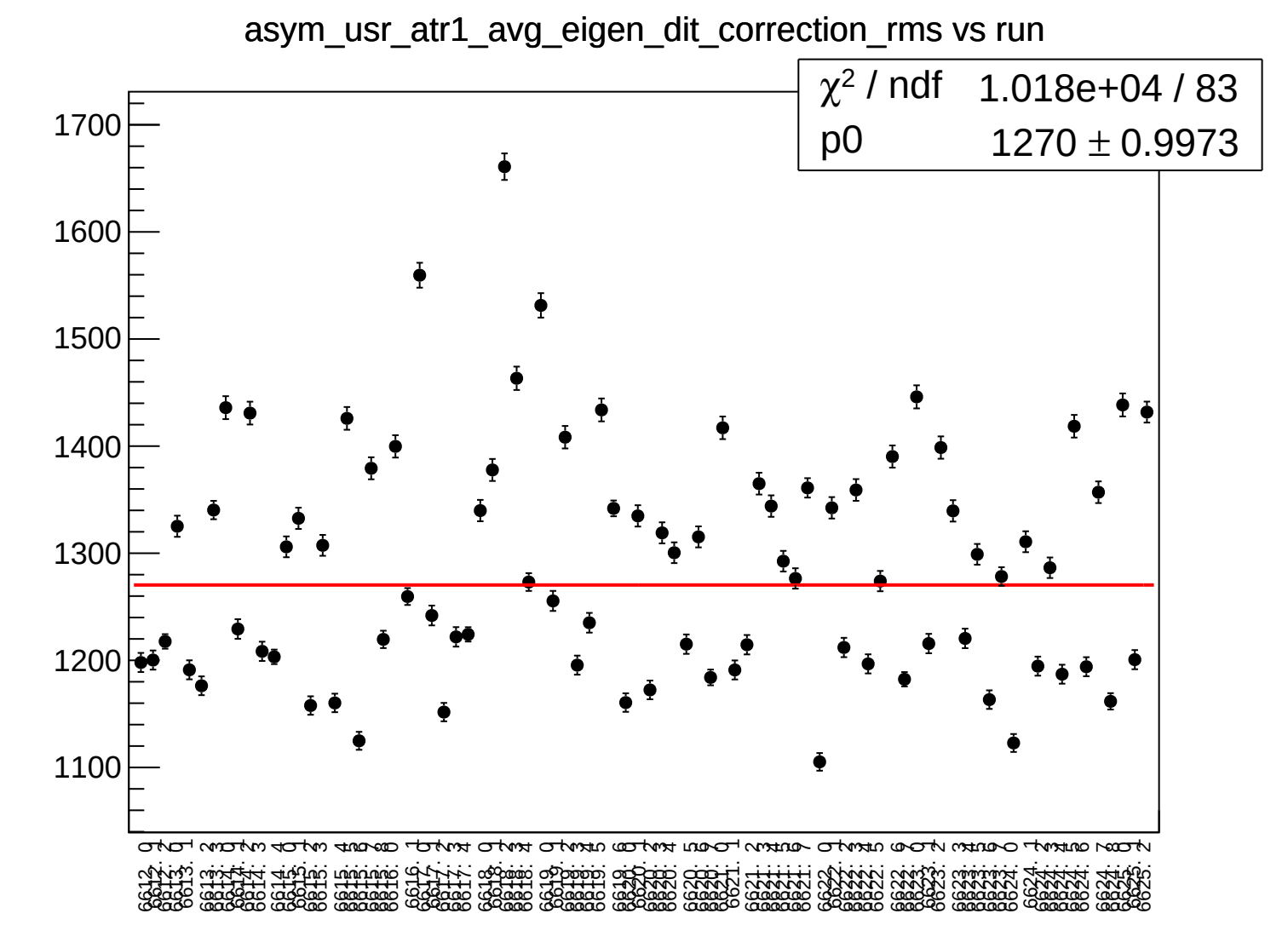

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 79.93 / 83
p0 828.1 ± 1790
pull
Entries 84
Mean 78.5
Std Dev 102.4

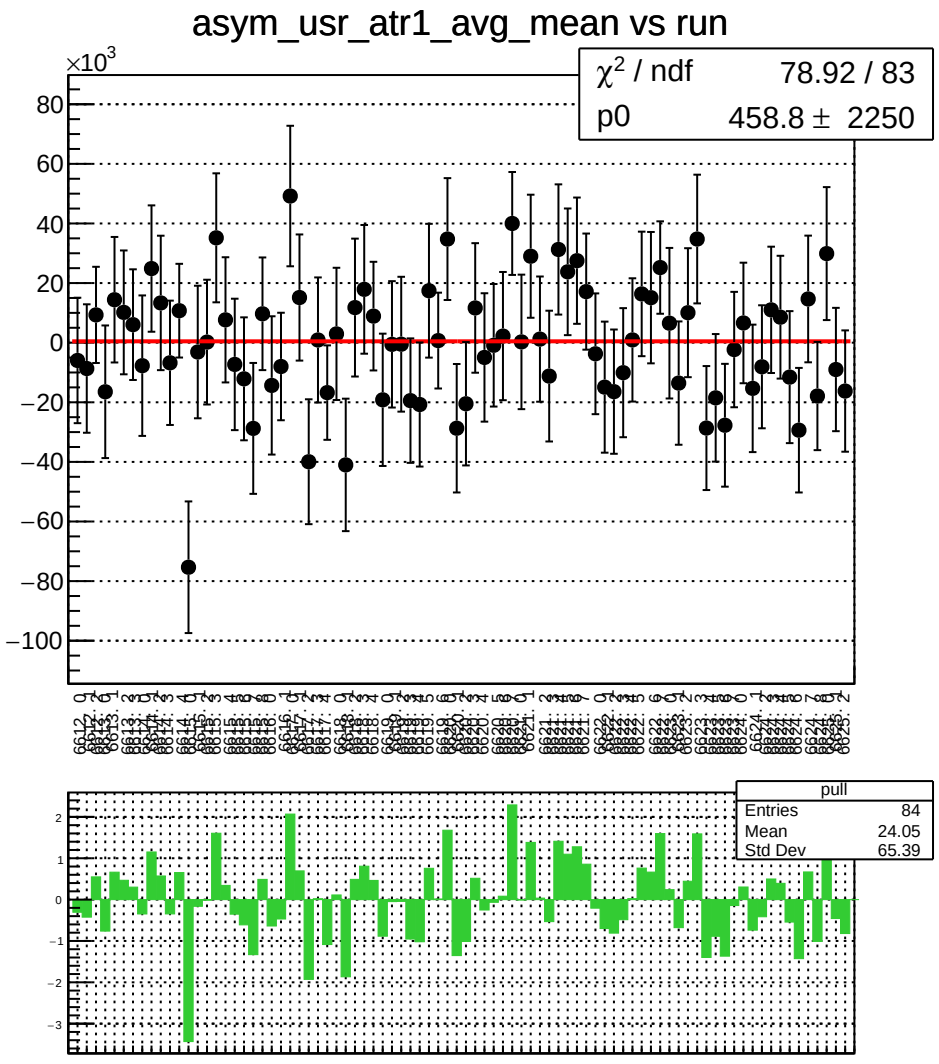

pull1D
Entries 84
Mean −0.007459
Std Dev 0.9754

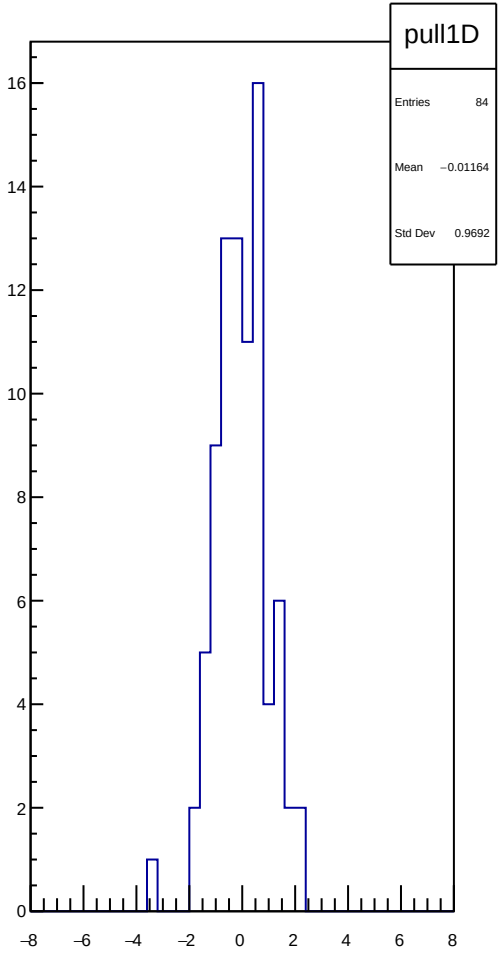

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 164.9 / 83
p0 1617 ± 1.266
1700
1680
1660
1640
1620
1600
1580

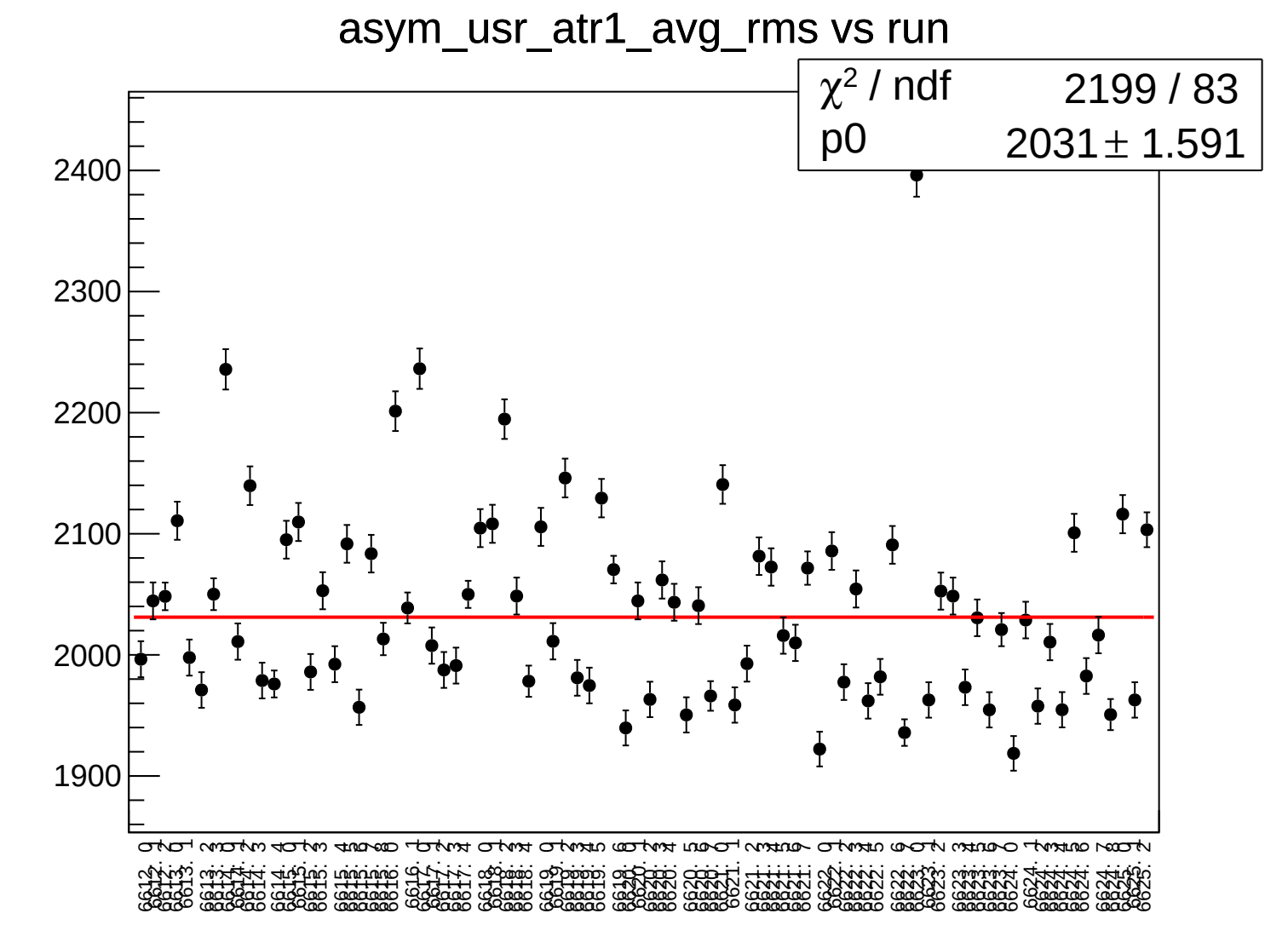

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 73.58 / 83
p0 262.7 ± 1410
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −26.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

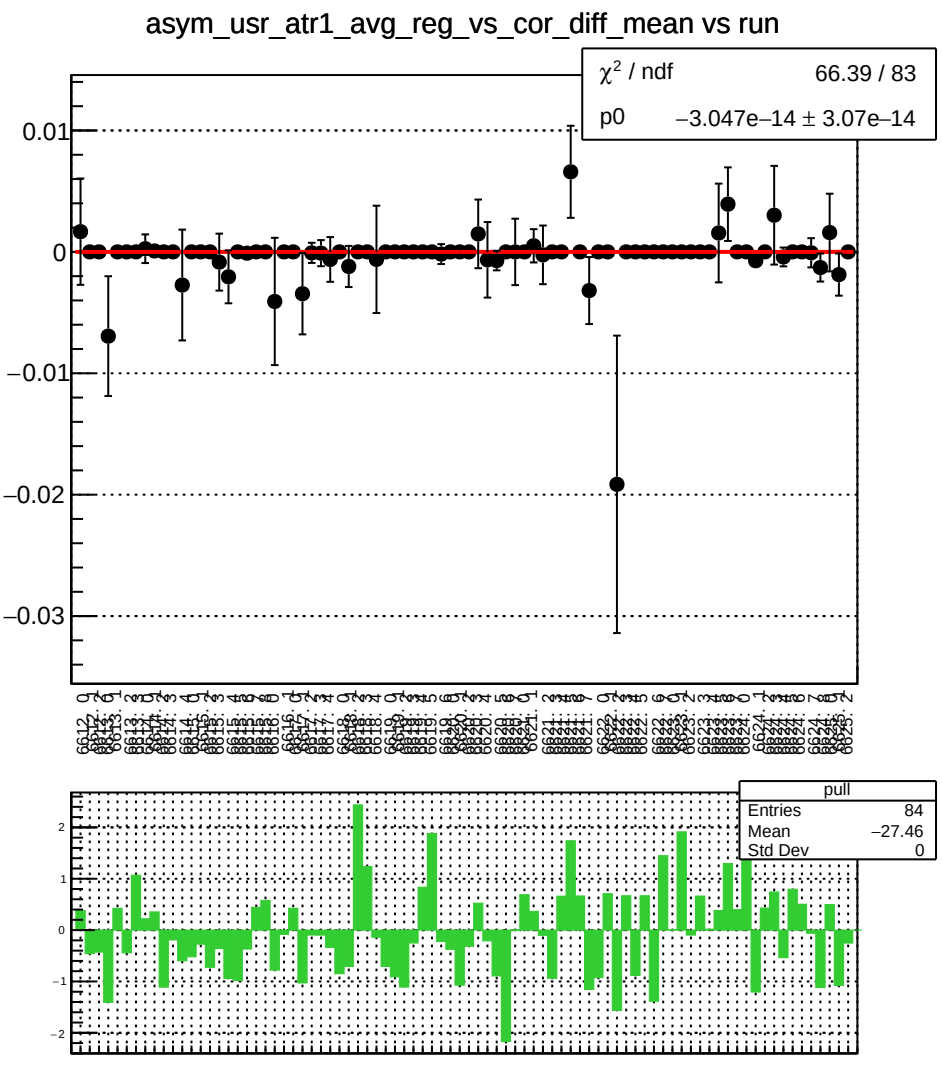

pull1D
Entries 84
Mean 0.01278
Std Dev 0.9358
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

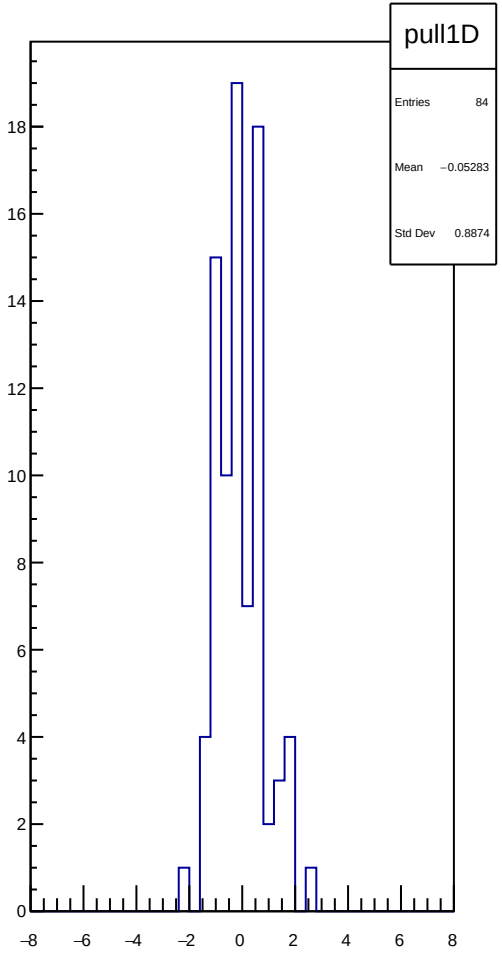

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.018e+04 / 83
p0 1270 ± 0.9973
1700
1600
1500
1400
1300
1200
1100

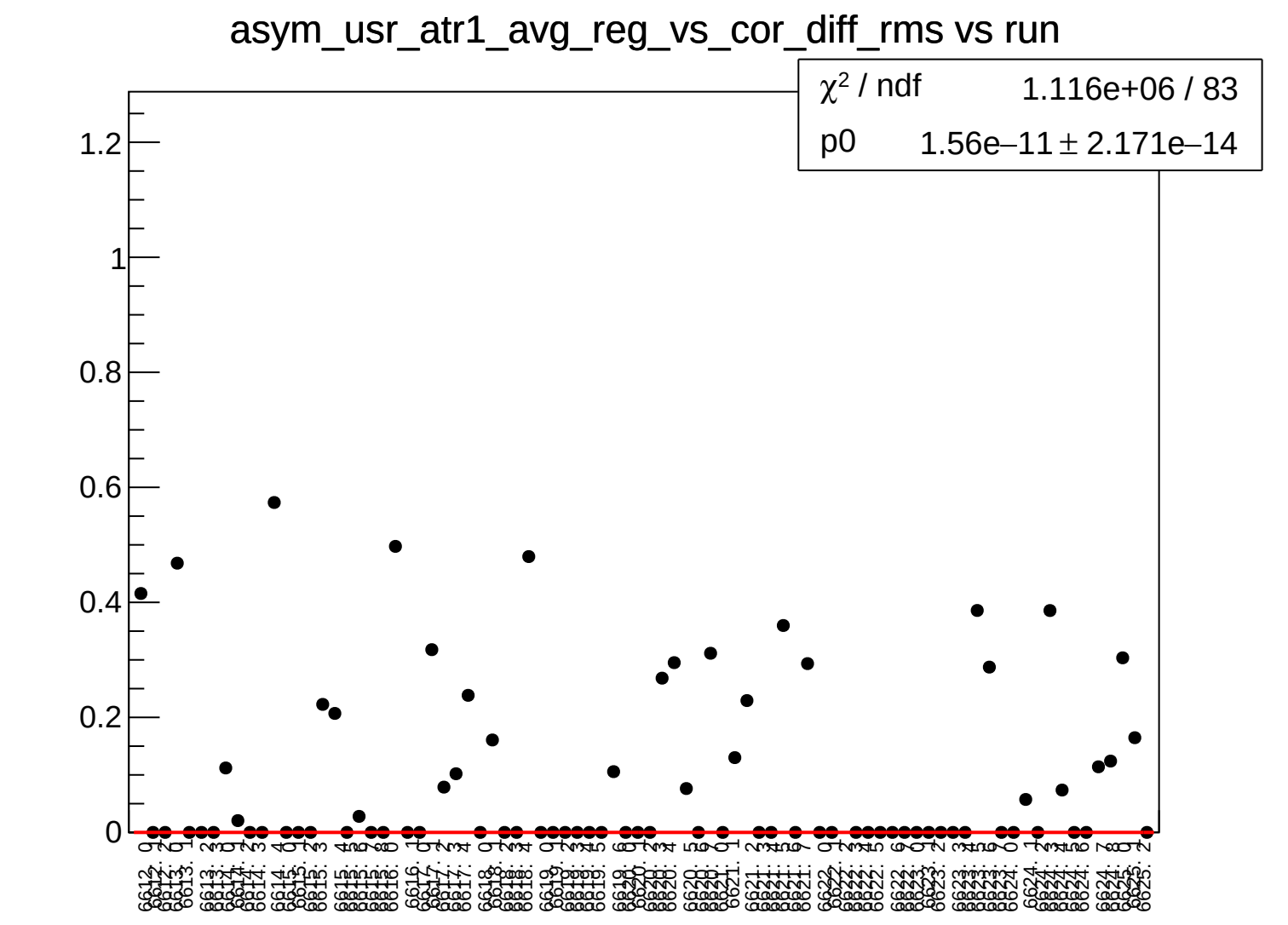

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 78.92 / 83
p0 458.8 ± 2250
pull
Entries 84
Mean 24.05
Std Dev 65.39

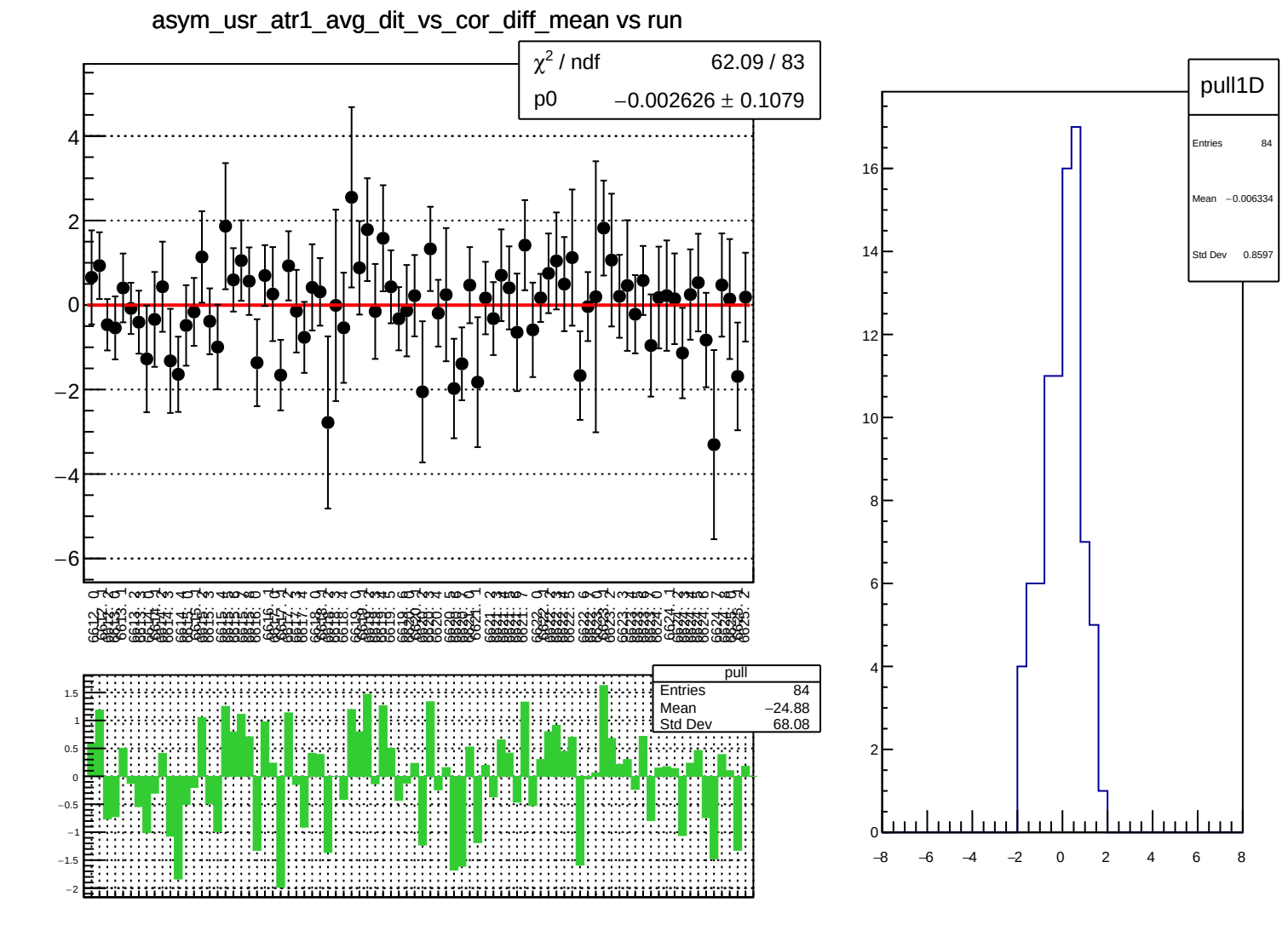

pull1D
Entries 84
Mean −0.01164
Std Dev 0.9692

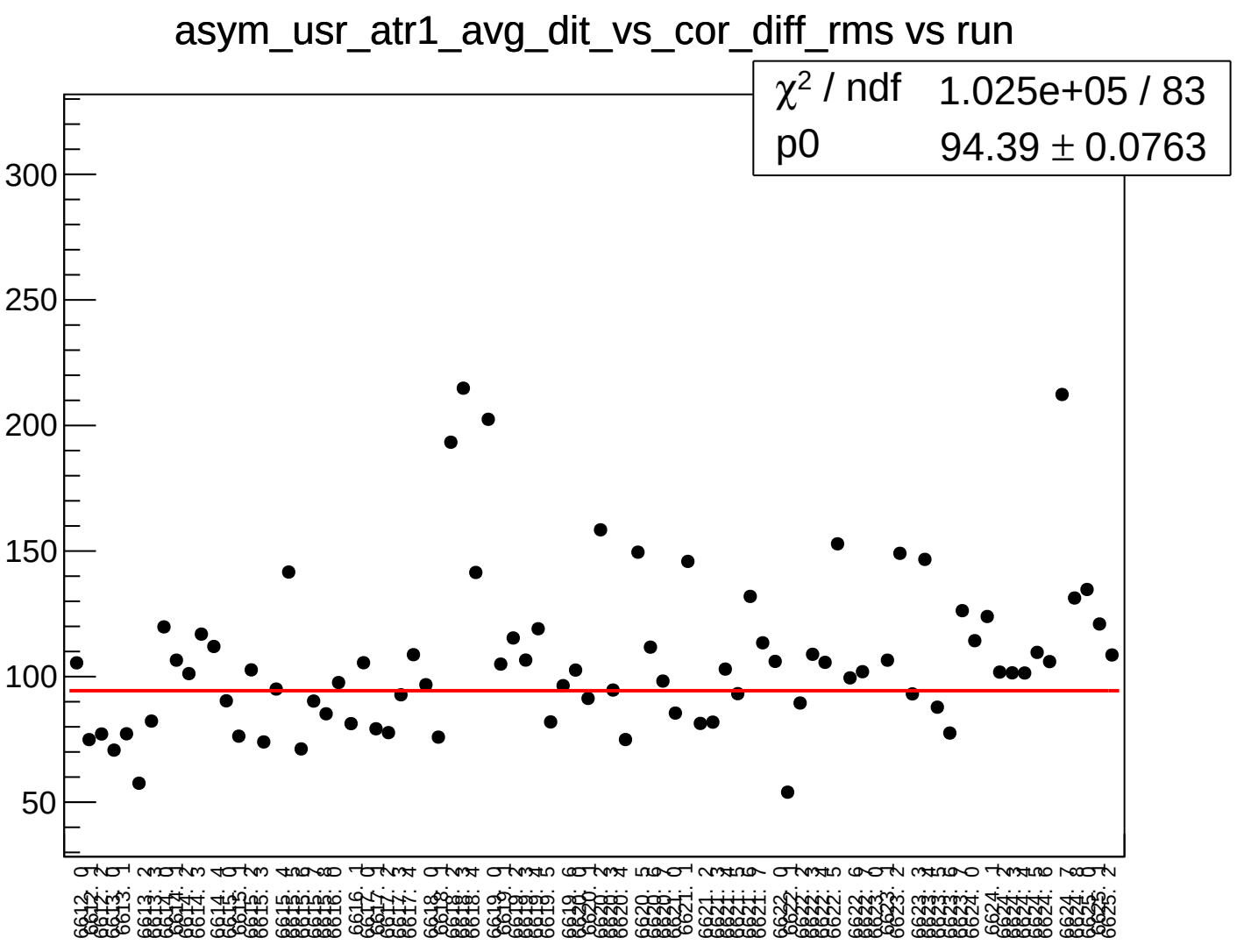

asym_usr_atr1_avg_rms vs run
χ² / ndf 2199 / 83
p0 2031 ± 1.591
2400
2300
2200
2100
2000
1900

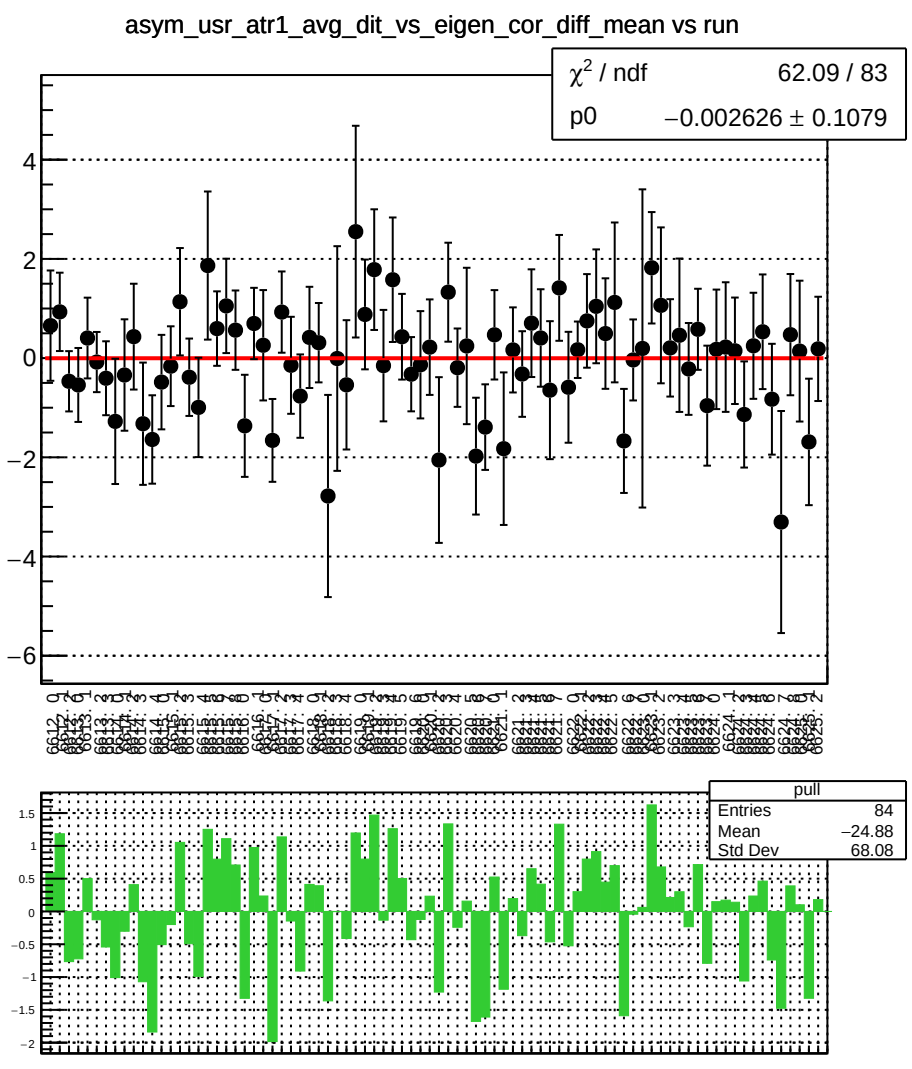

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 66.39 / 83
p0 −3.047e−14 ± 3.07e−14
0.01
0
−0.01
−0.02
−0.03
pull
Entries 84
Mean −27.46
Std Dev 0
2
1
0
−1
−2

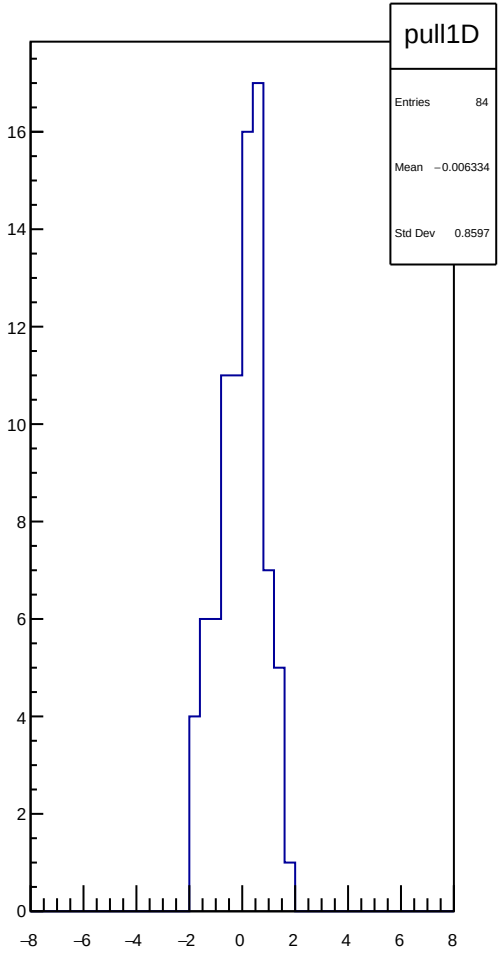

pull1D
Entries 84
Mean −0.05283
Std Dev 0.8874
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

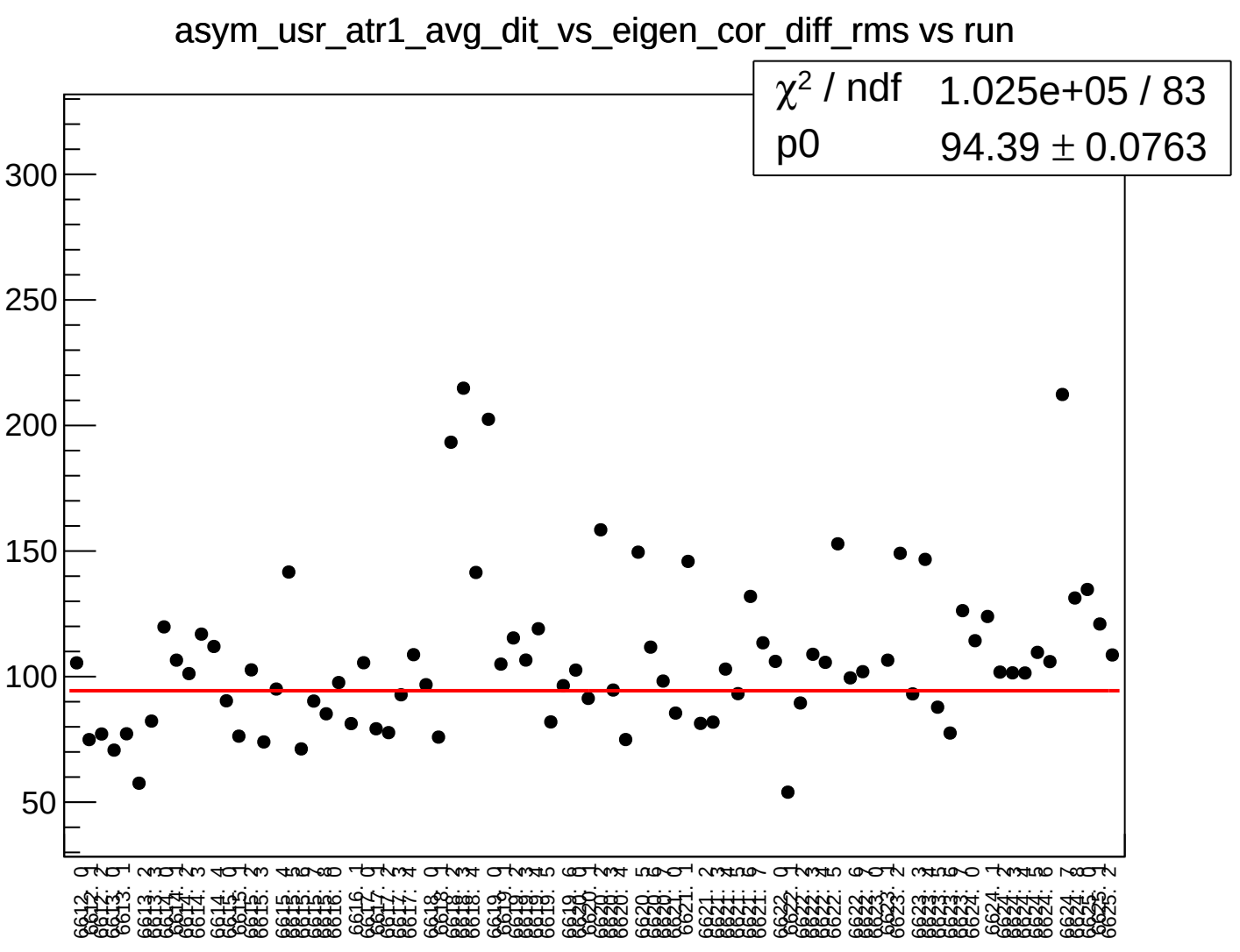

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.116e+06 / 83
p0 1.56e−11 ± 2.171e−14
1.2
1
0.8
0.6
0.4
0.2
0

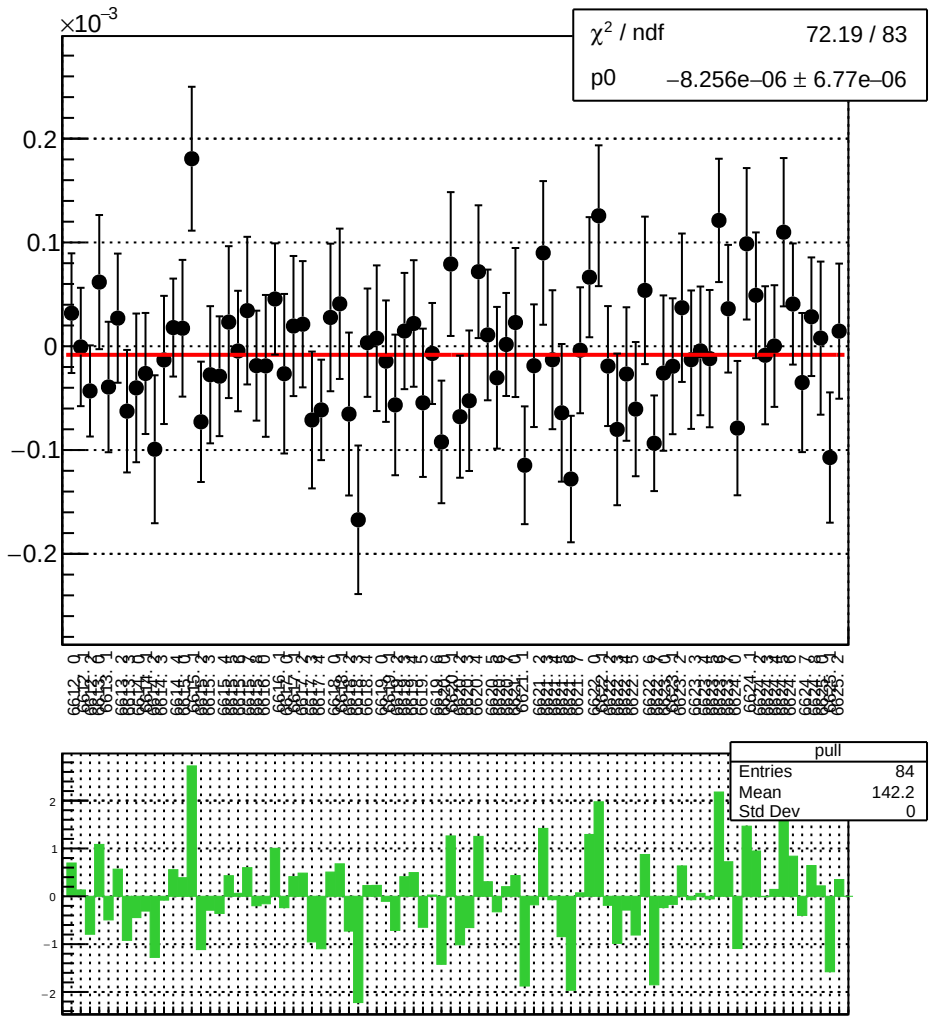

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 62.09 / 83
p0 −0.002626 ± 0.1079
pull
Entries 84
Mean −24.88
Std Dev 68.08
pull1D
Entries 84
Mean −0.006334
Std Dev 0.8597

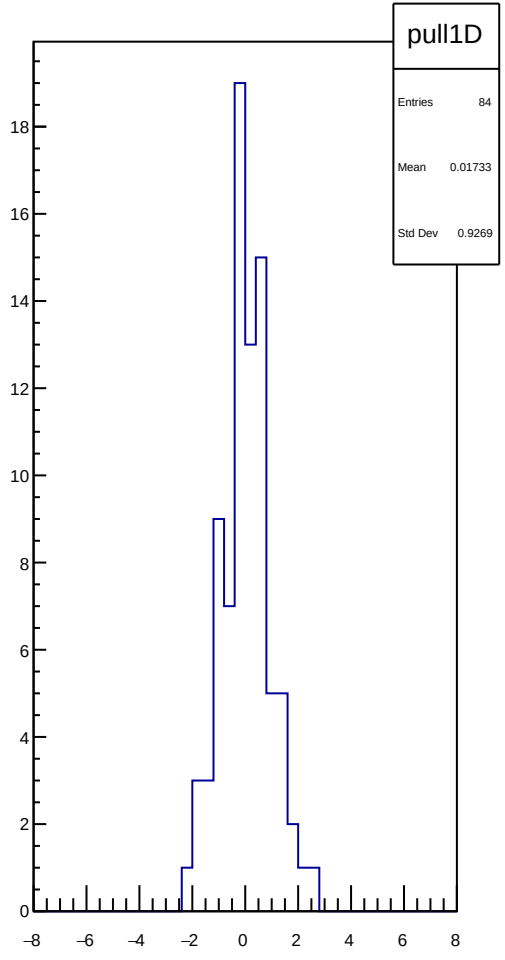

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.025e+05 / 83
p0 94.39 ± 0.0763
300
250
200
150
100
50

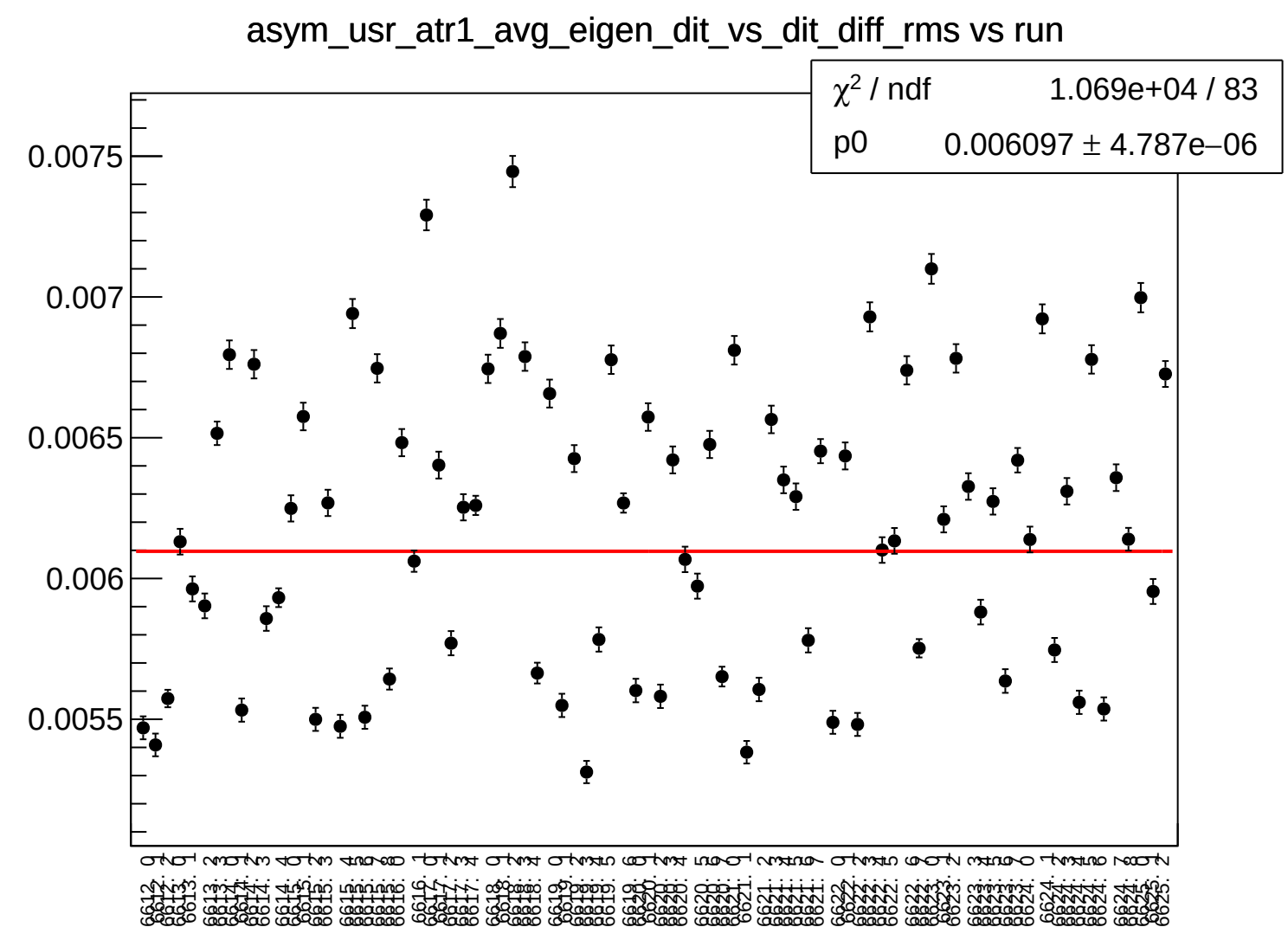

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.09 / 83
p0 −0.002626 ± 0.1079
pull
Entries 84
Mean −24.88
Std Dev 68.08

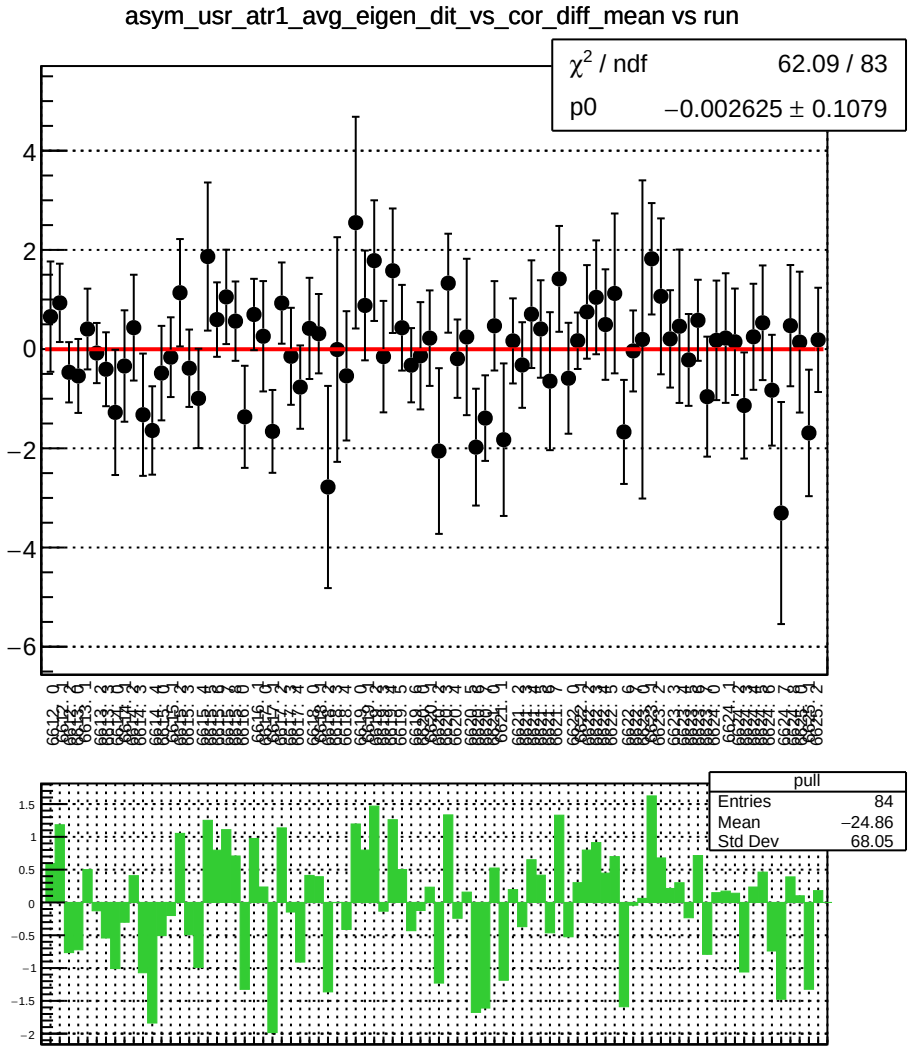

pull1D
Entries 84
Mean −0.006334
Std Dev 0.8597

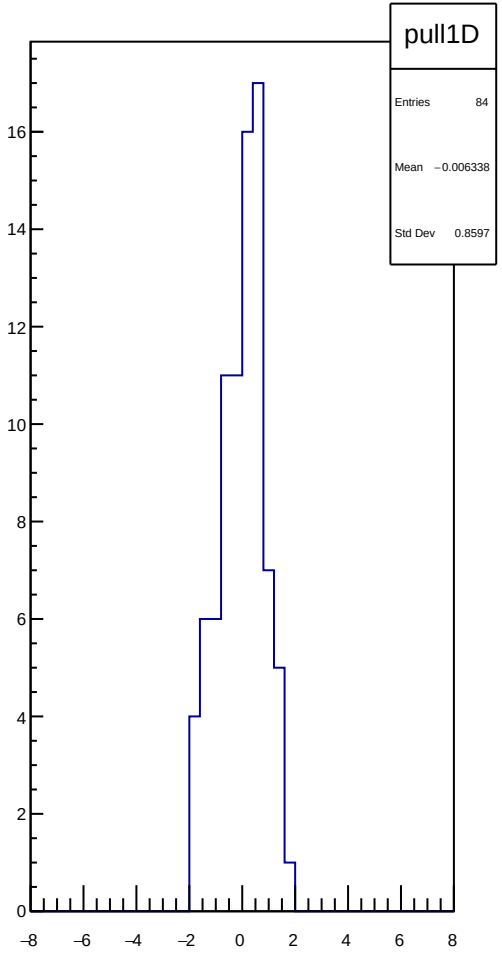

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.025e+05 / 83
p0 94.39 ± 0.0763
300
250
200
150
100
50

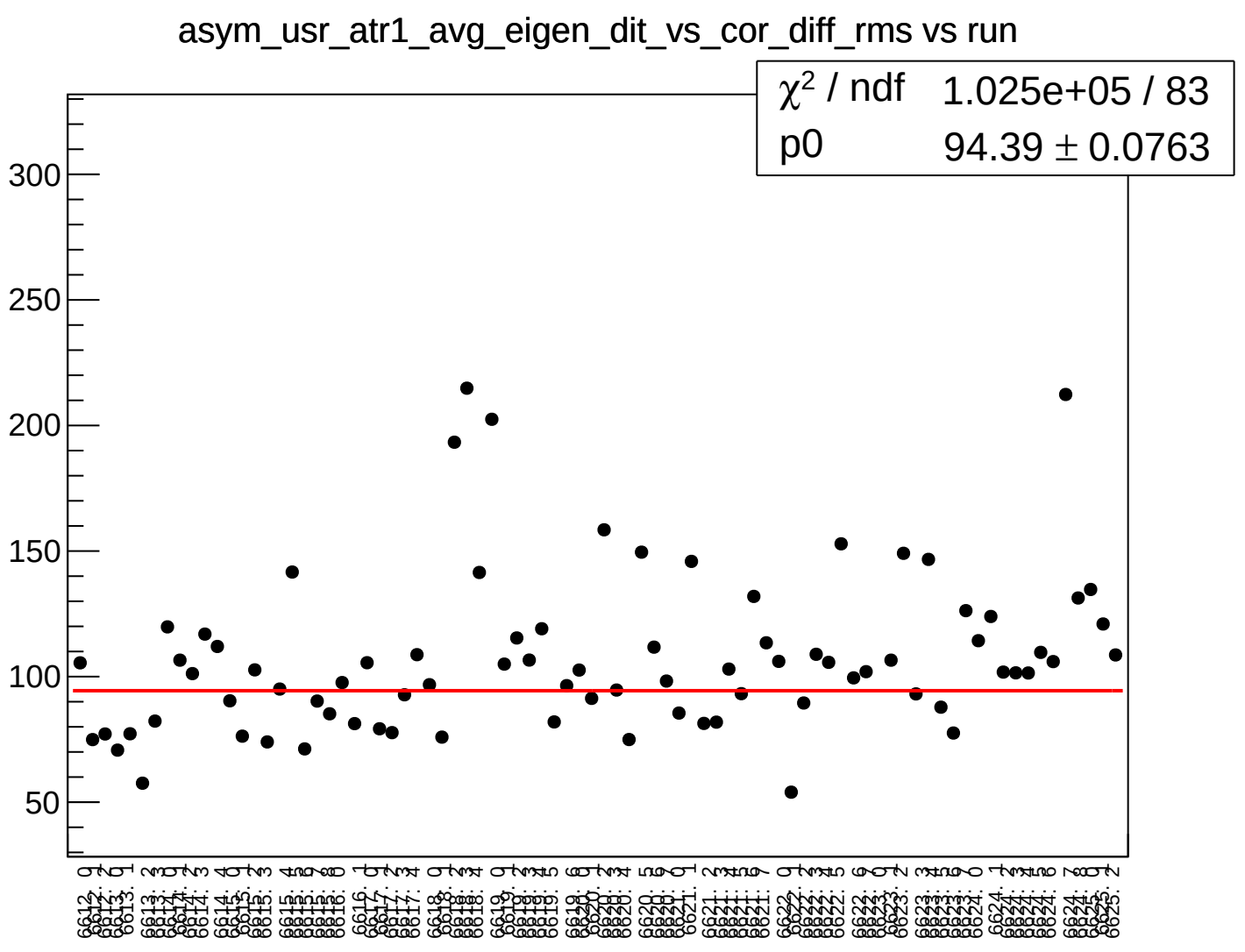

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.19 / 83
p0 −8.256e−06 ± 6.77e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 84
Mean 142.2
Std Dev 0
2
1
0
−1
−2

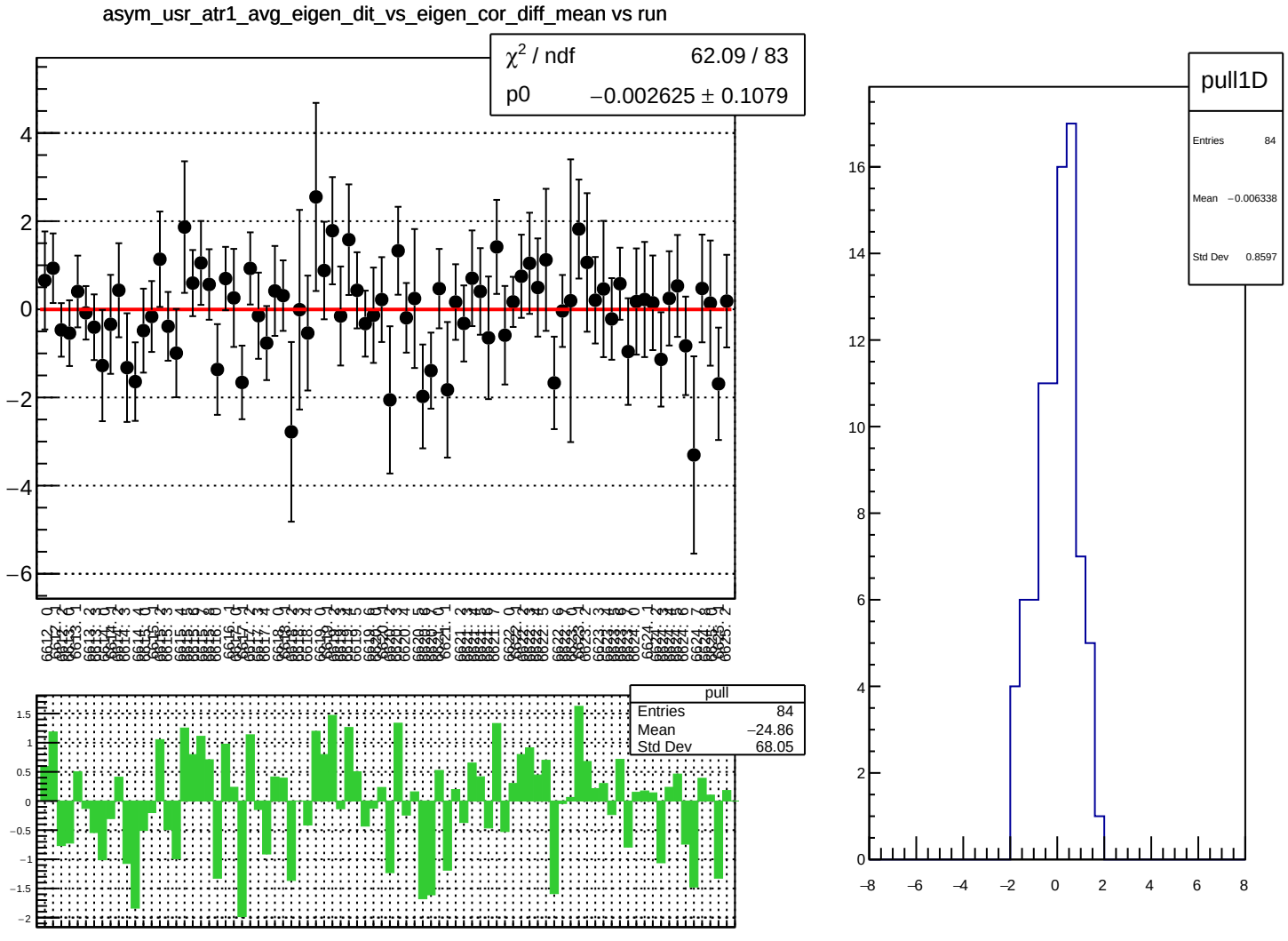

pull1D
Entries 84
Mean 0.01733
Std Dev 0.9269
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

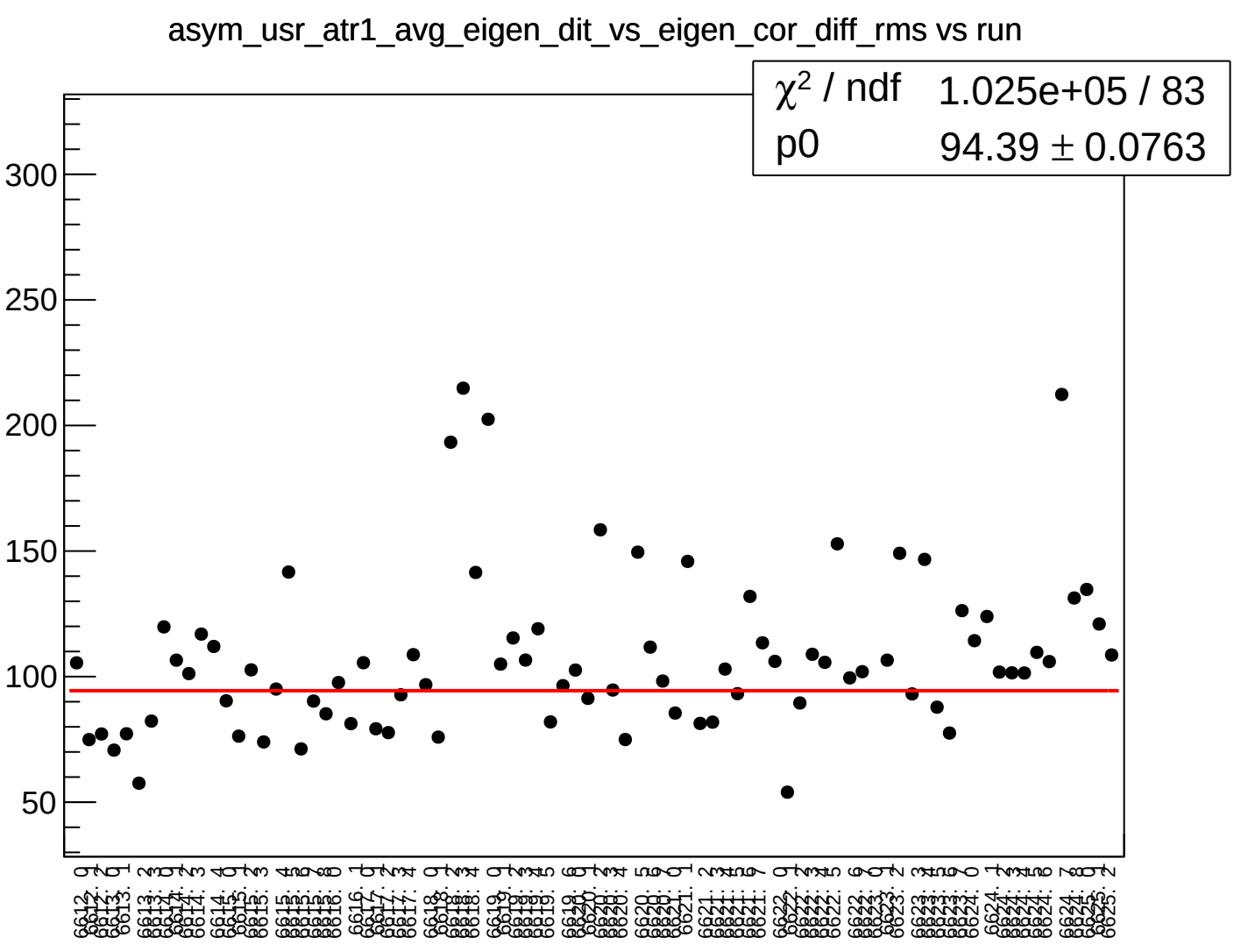

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.069e+04 / 83
p0 0.006097 ± 4.787e−06
0.0075
0.007
0.0065
0.006
0.0055

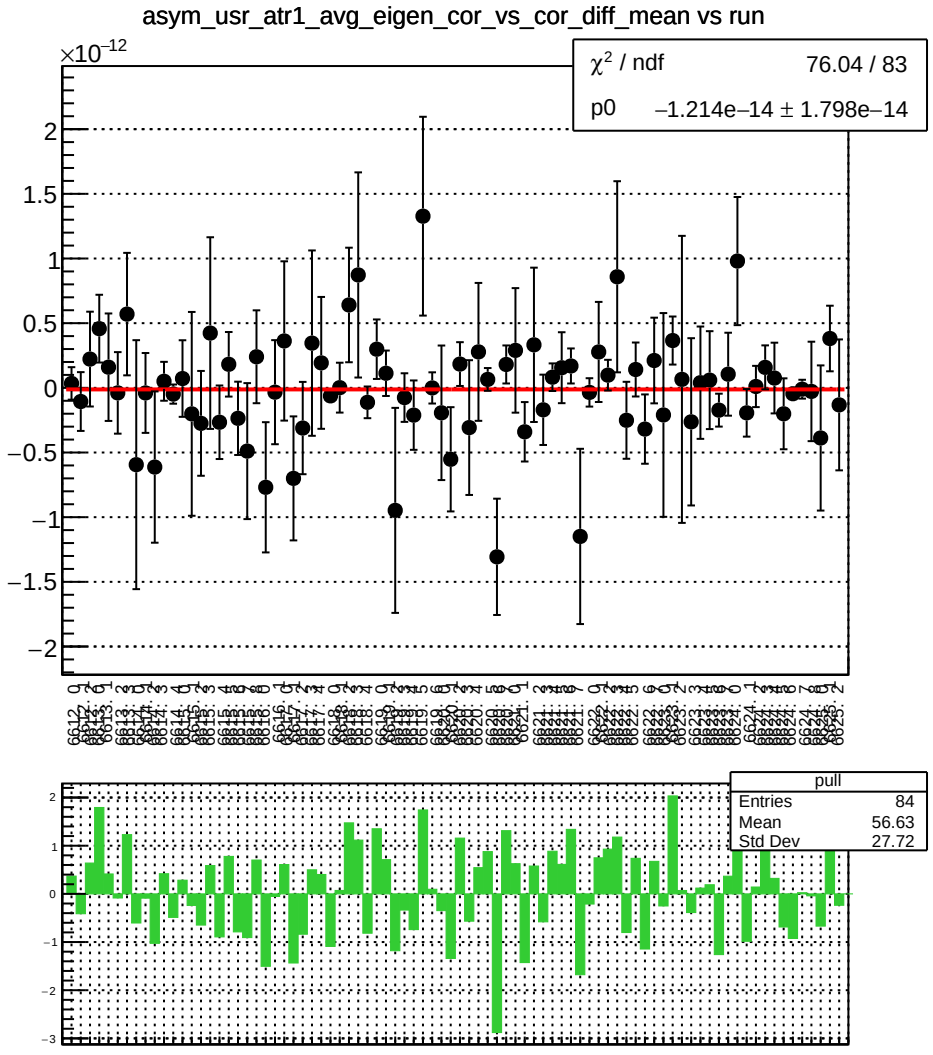

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 62.09 / 83
p0 −0.002625 ± 0.1079
pull
Entries 84
Mean −24.86
Std Dev 68.05

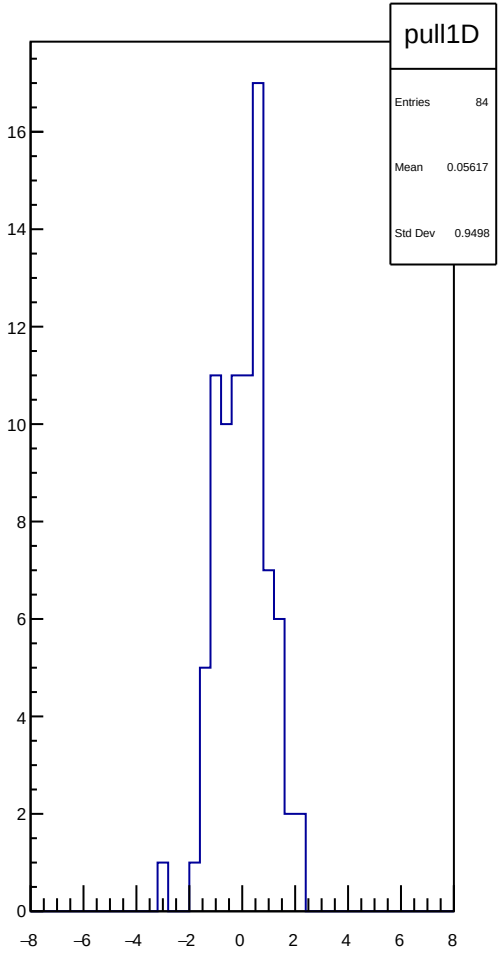

pull1D
Entries 84
Mean −0.006338
Std Dev 0.8597

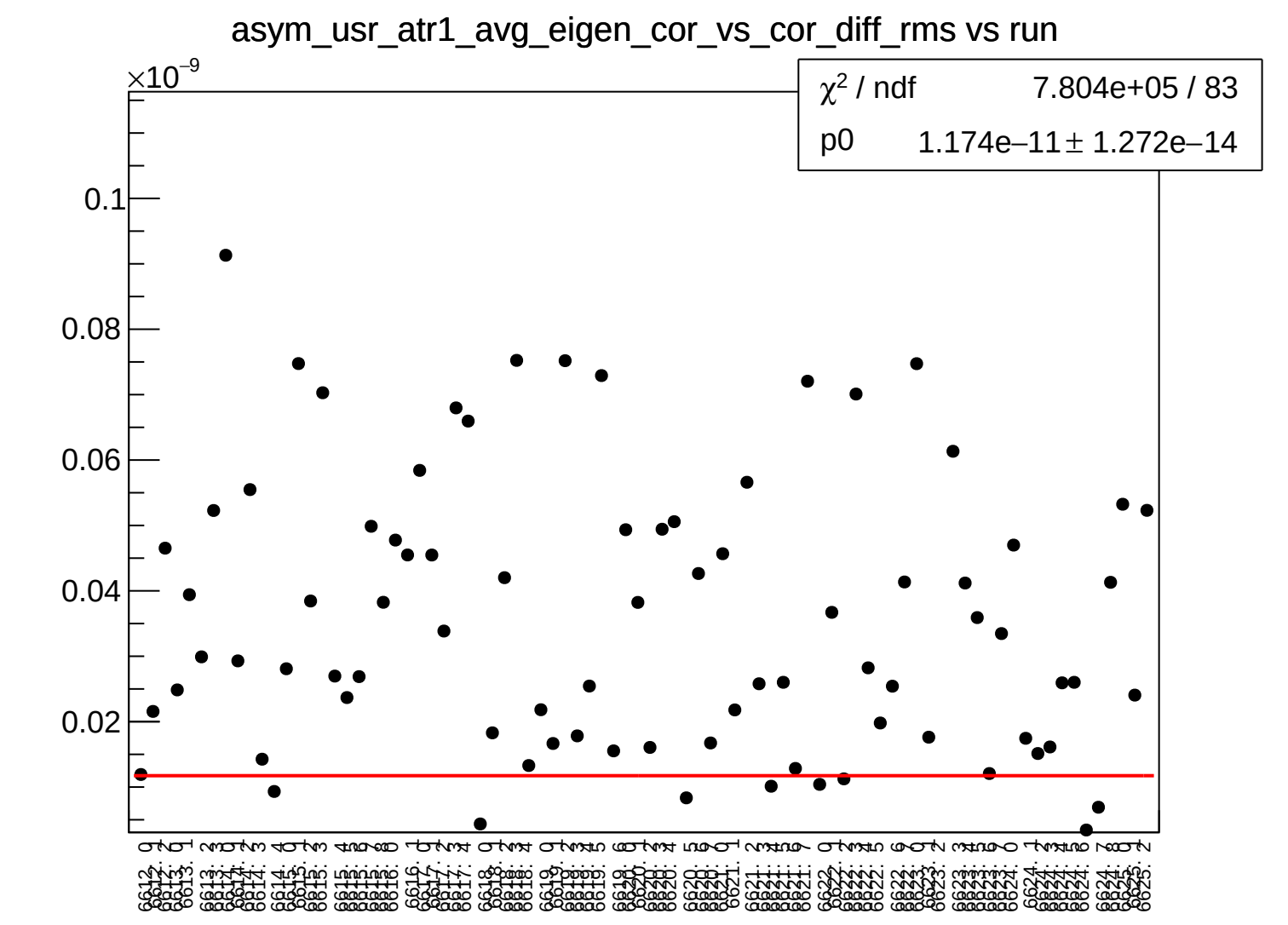

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.025e+05 / 83
p0 94.39 ± 0.0763
300
250
200
150
100
50

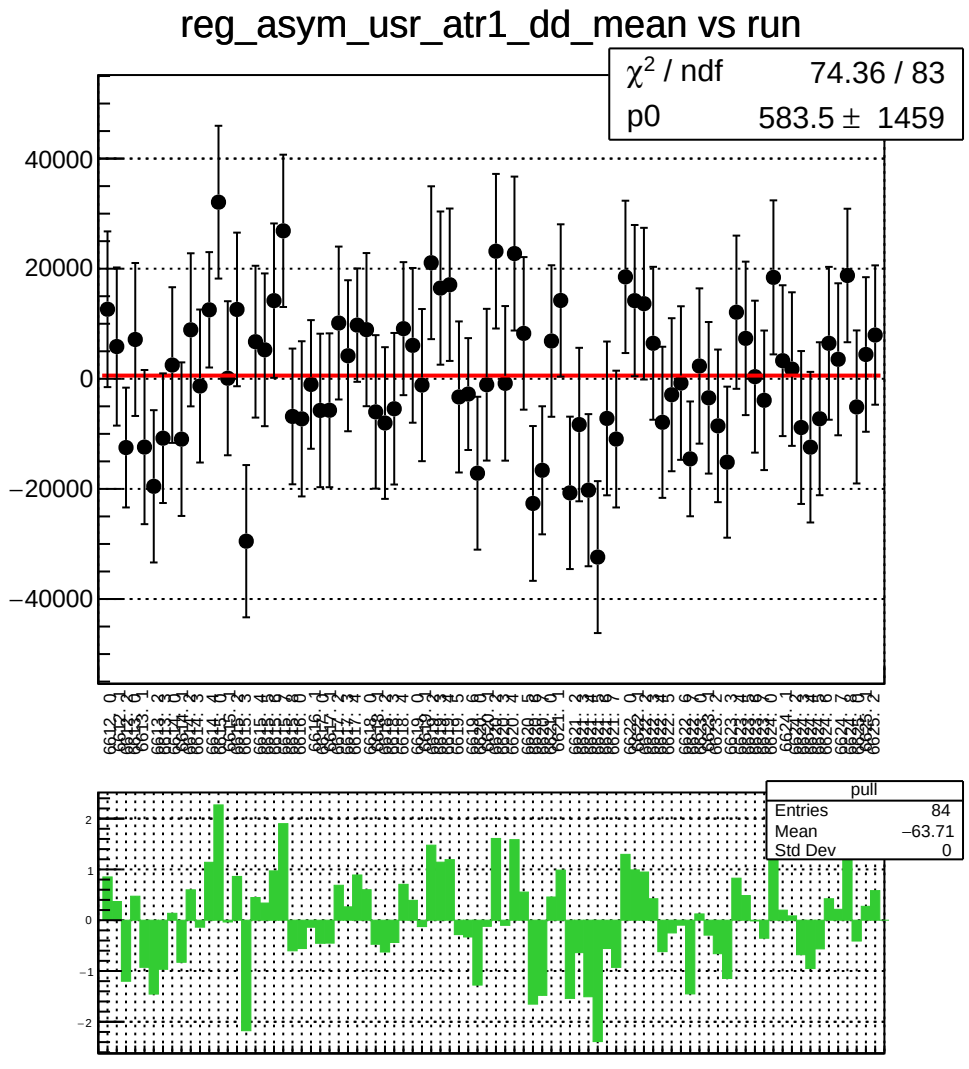

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.09 / 83
p0 −0.002625 ± 0.1079
pull
Entries 84
Mean −24.86
Std Dev 68.05
pull1D
Entries 84
Mean −0.006338
Std Dev 0.8597

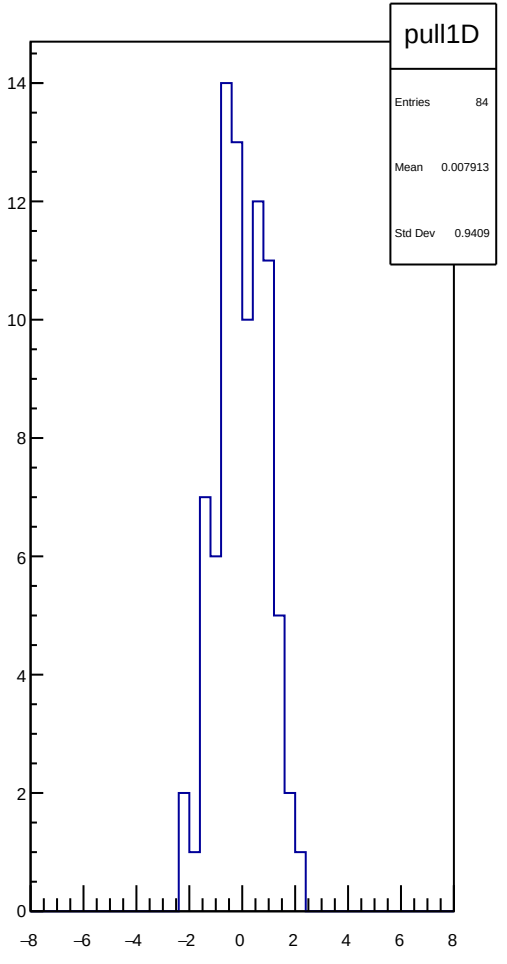

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.025e+05 / 83
p0 94.39 ± 0.0763
300
250
200
150
100
50

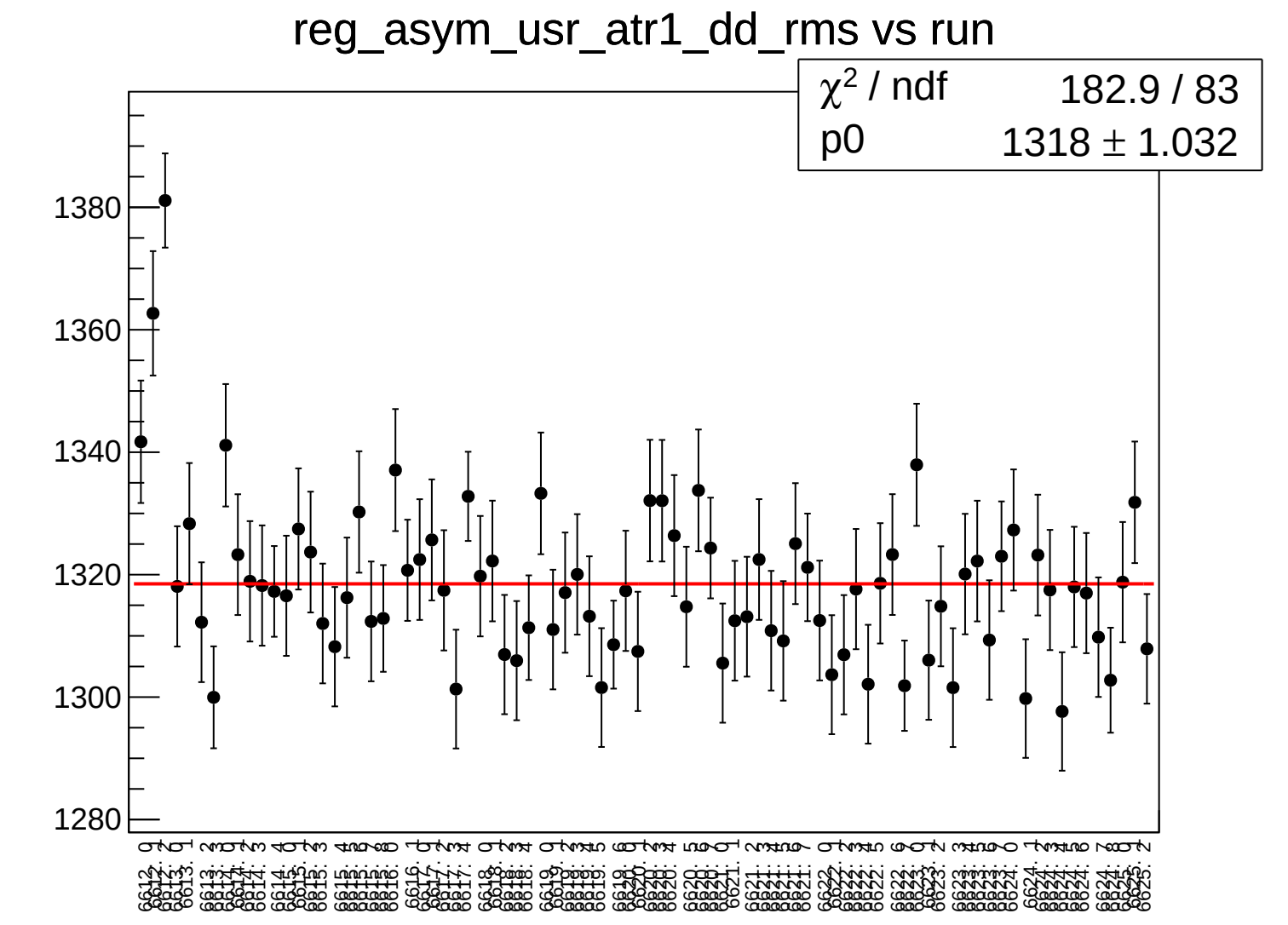

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.04 / 83
p0 −1.214e−14 ± 1.798e−14
pull
Entries 84
Mean 56.63
Std Dev 27.72

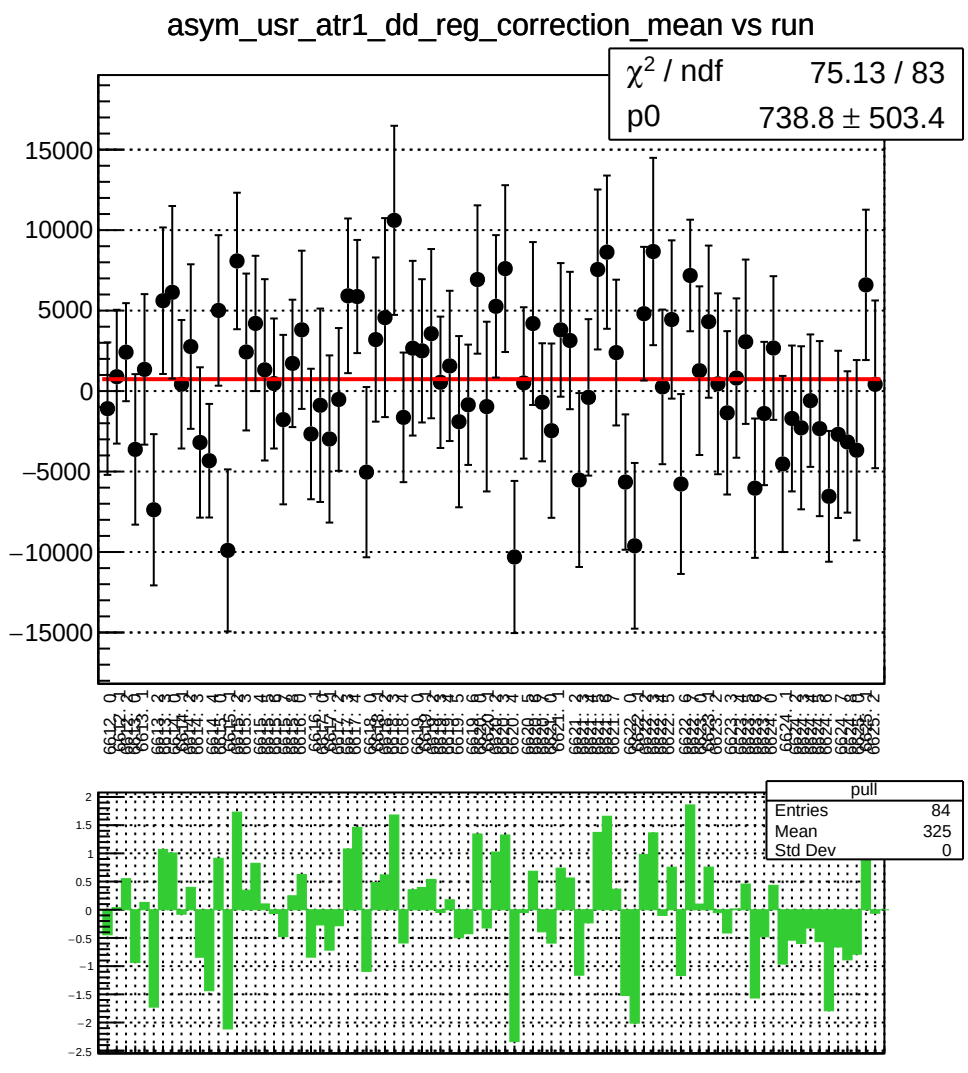

pull1D
Entries 84
Mean 0.05617
Std Dev 0.9498

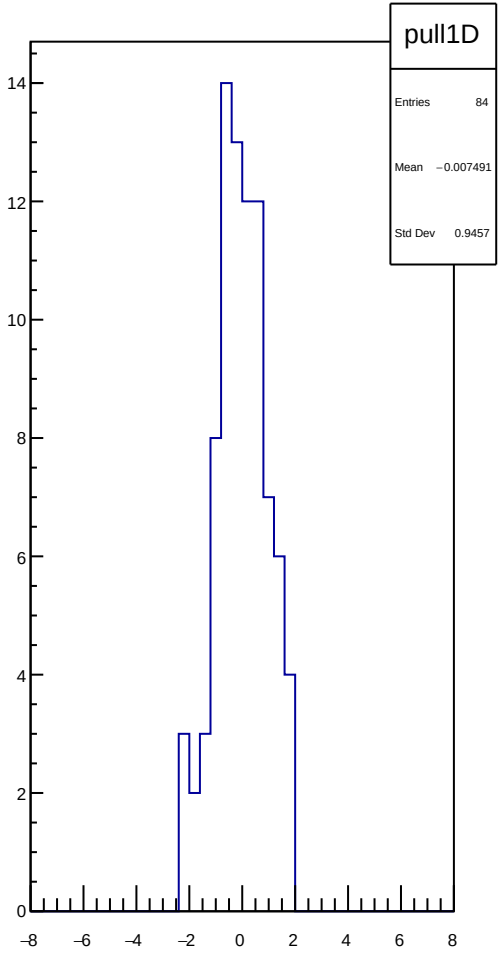

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.804e+05 / 83
p0 1.174e−11 ± 1.272e−14
0.1
0.08
0.06
0.04
0.02

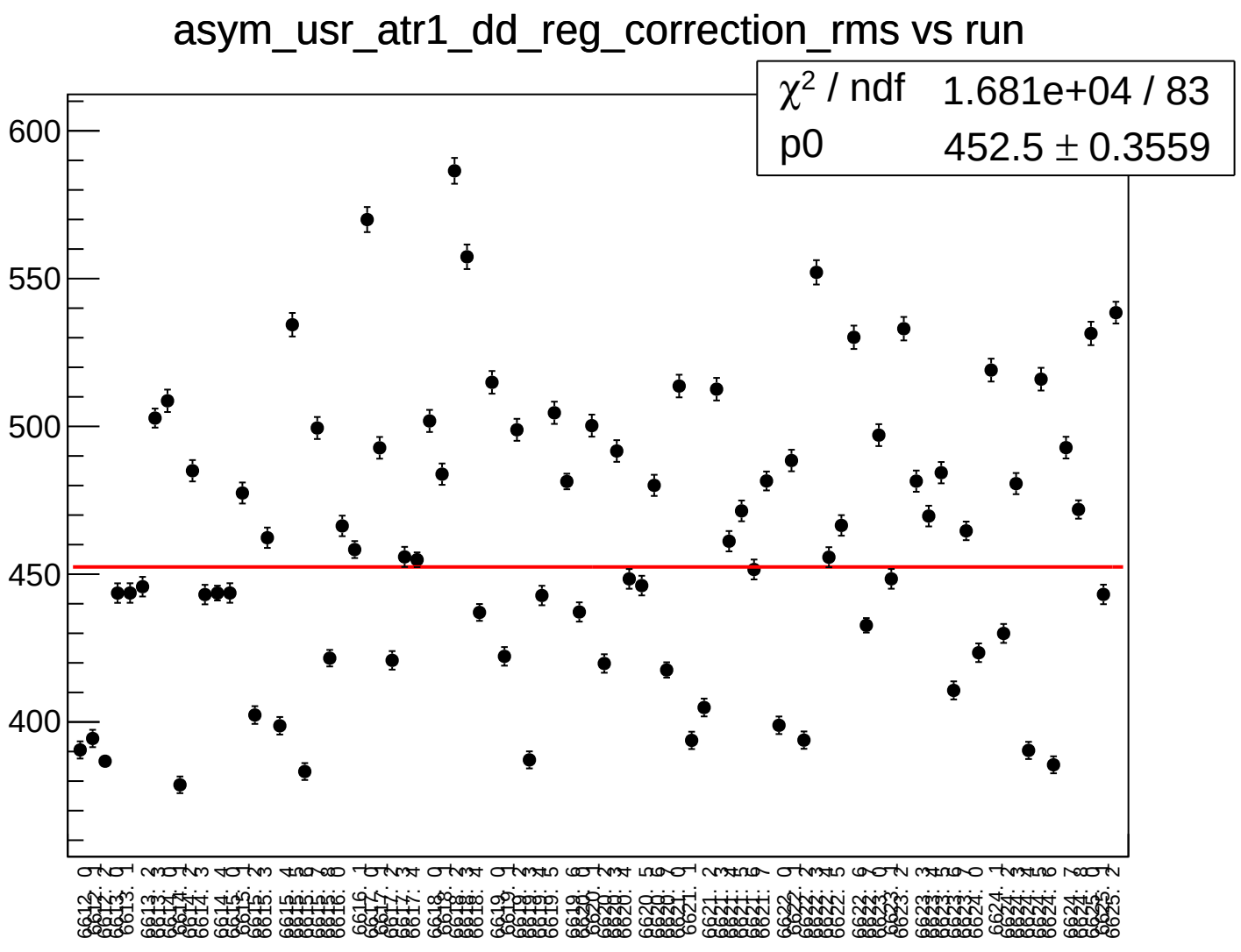

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 74.36 / 83
p0 583.5 ± 1459
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −63.71
Std Dev 0
2
1
0
−1
−2

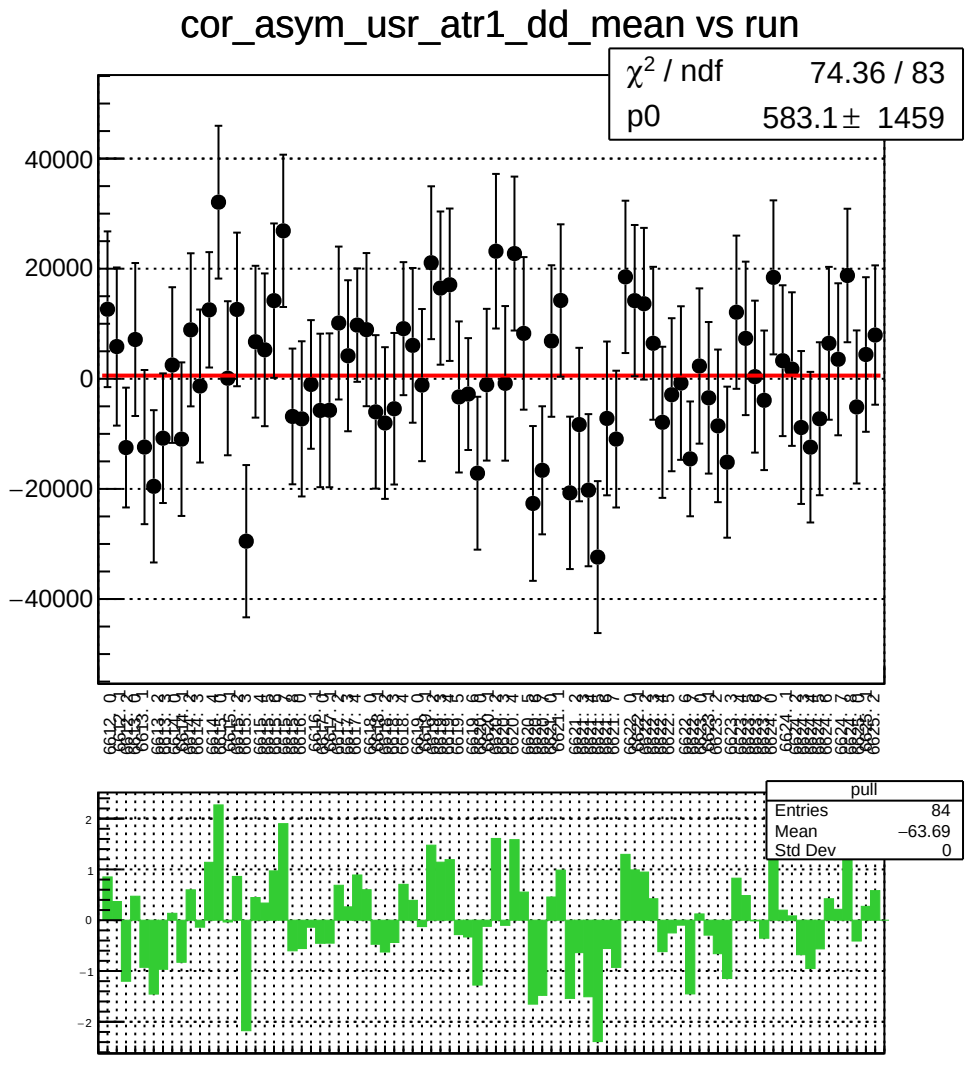

pull1D
Entries 84
Mean 0.007913
Std Dev 0.9409
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

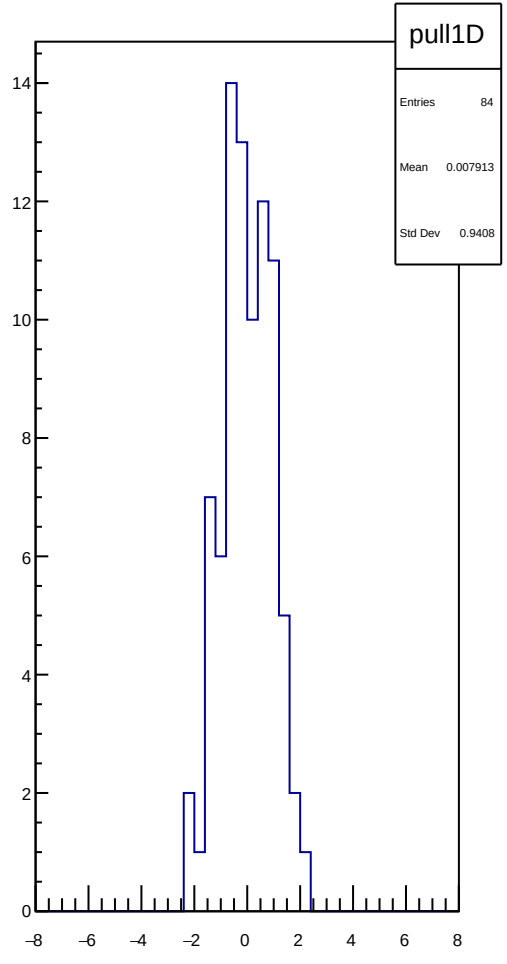

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 182.9 / 83
p0 1318 ± 1.032
1380
1360
1340
1320
1300
1280

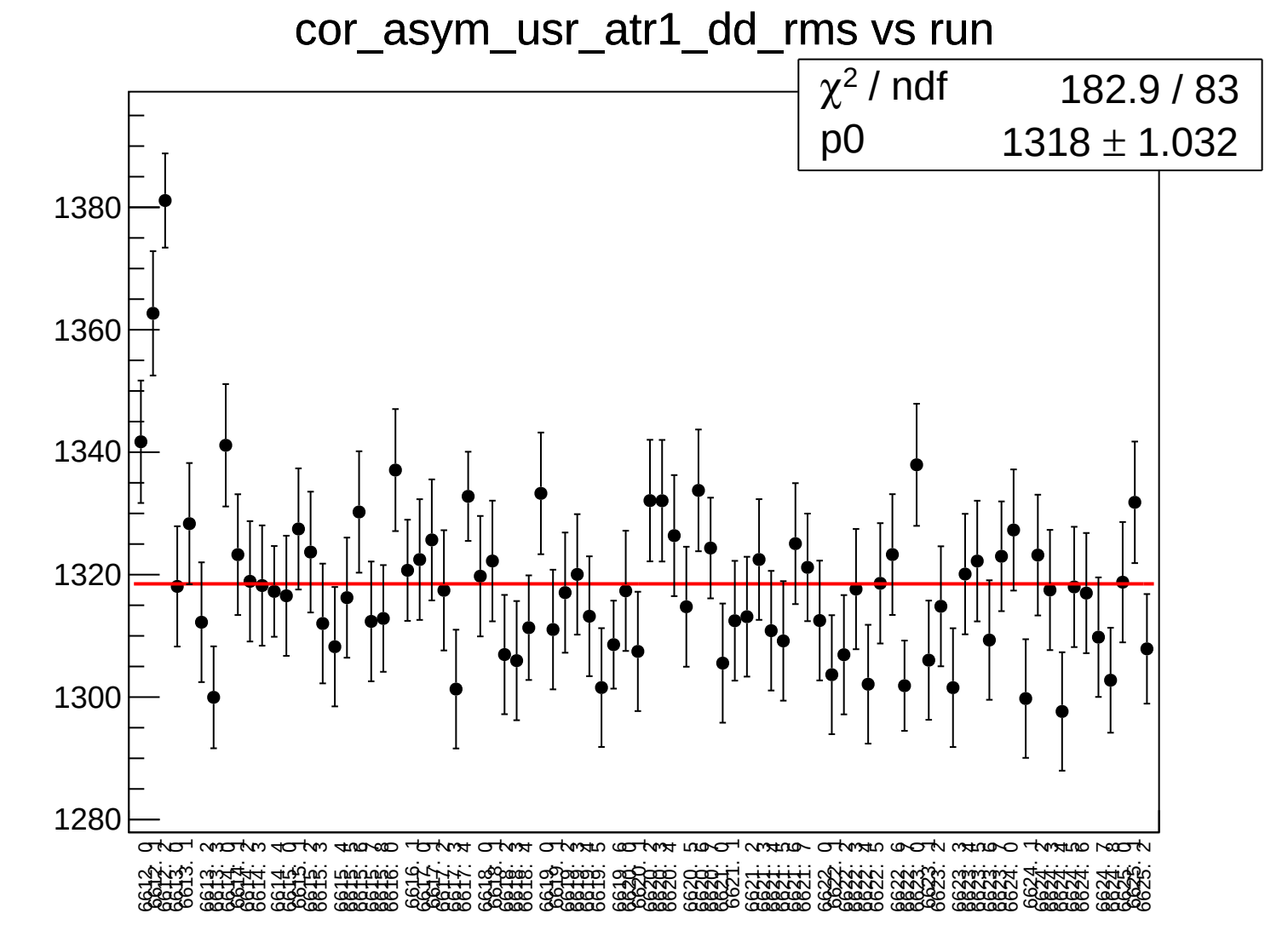

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 75.13 / 83
p0 738.8 ± 503.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 325
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

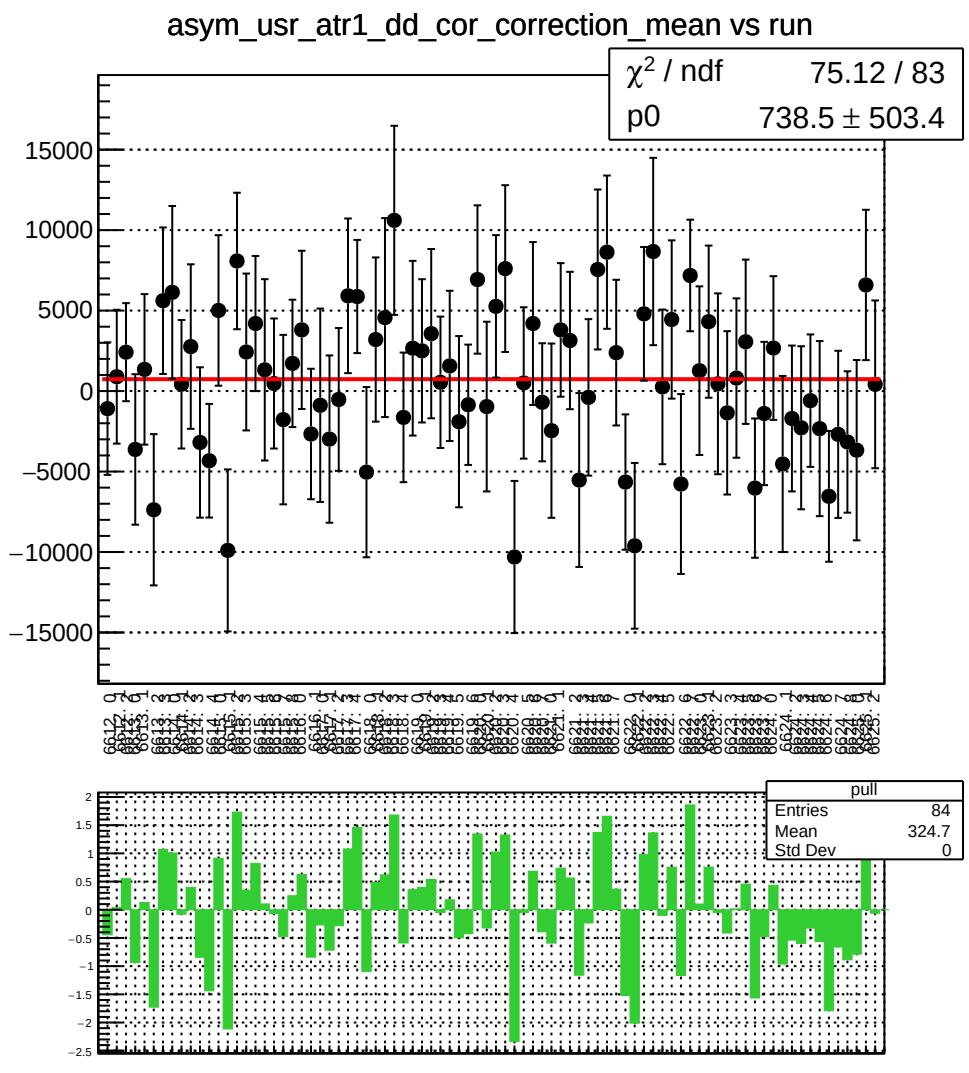

pull1D
Entries 84
Mean −0.007491
Std Dev 0.9457
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

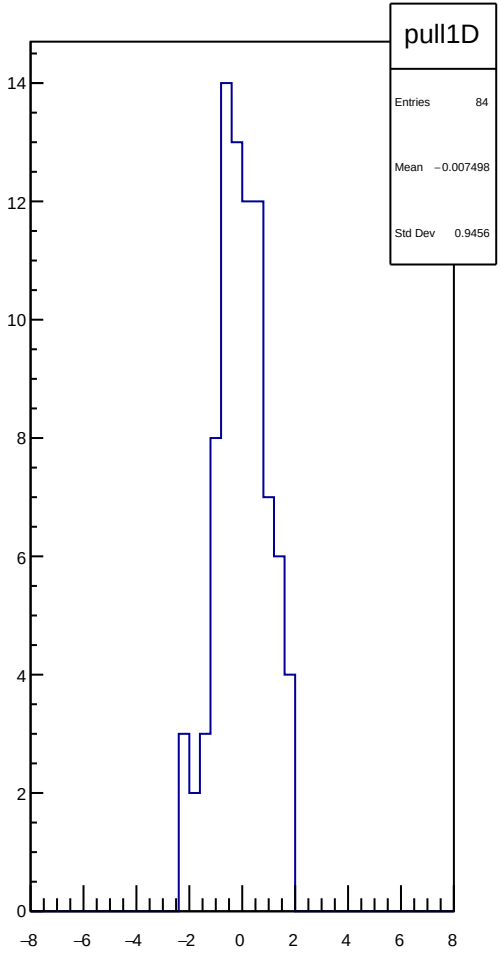

asym_usr_atr1_dd_reg_correction_rms vs run
χ^2 / ndf 1.681e+04 / 83
p0 452.5 ± 0.3559
600
550
500
450
400

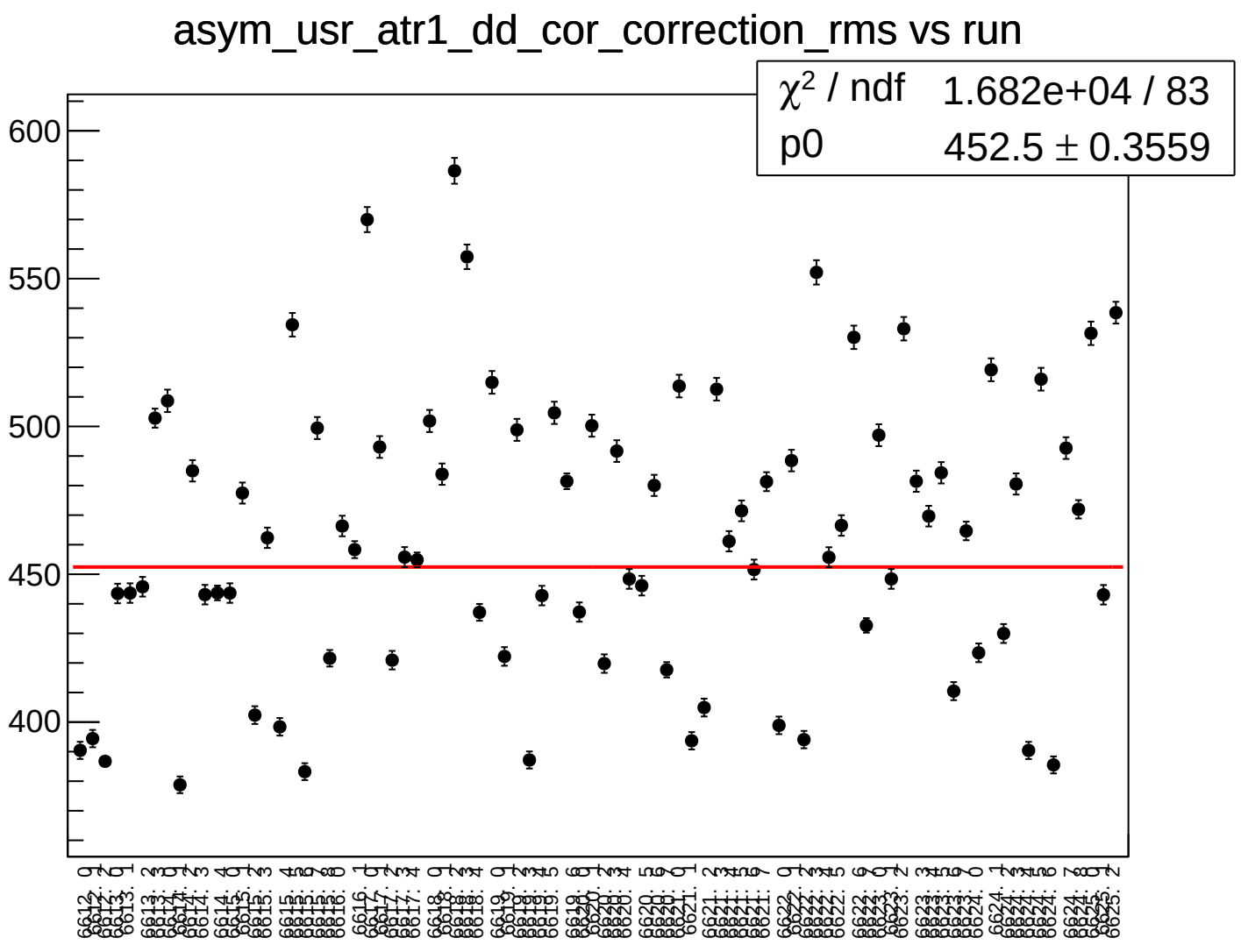

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 74.36 / 83
p0 583.1 ± 1459
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −63.69
Std Dev 0
2
1
0
−1
−2

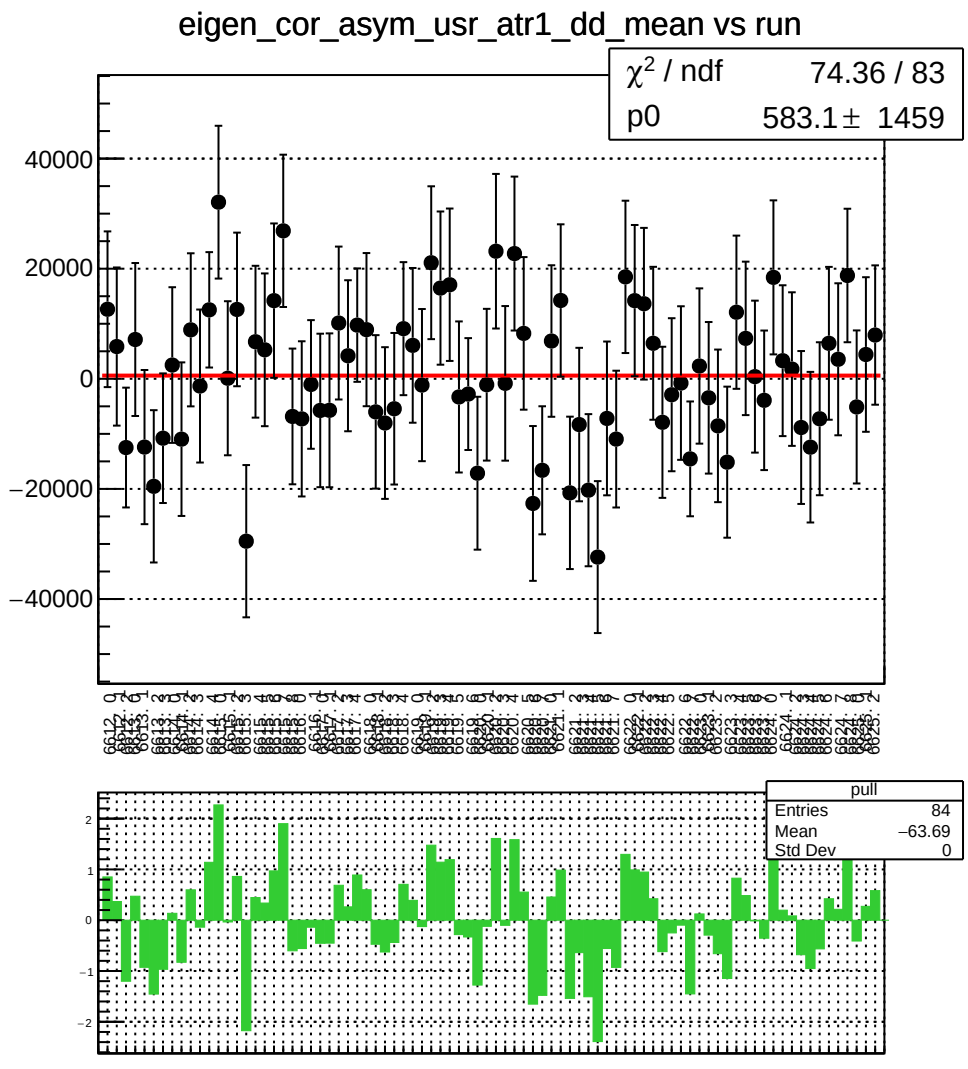

pull1D
Entries 84
Mean 0.007913
Std Dev 0.9408
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

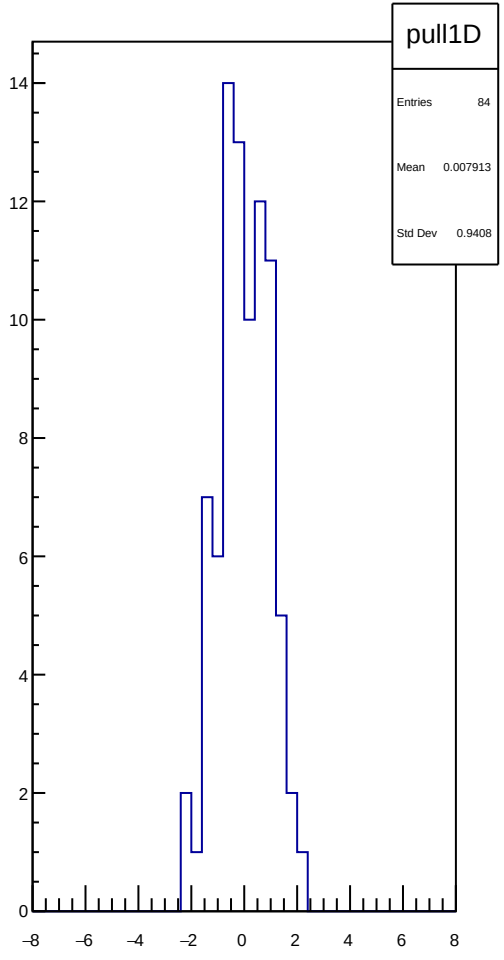

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 182.9 / 83
p0 1318 ± 1.032
1380
1360
1340
1320
1300
1280

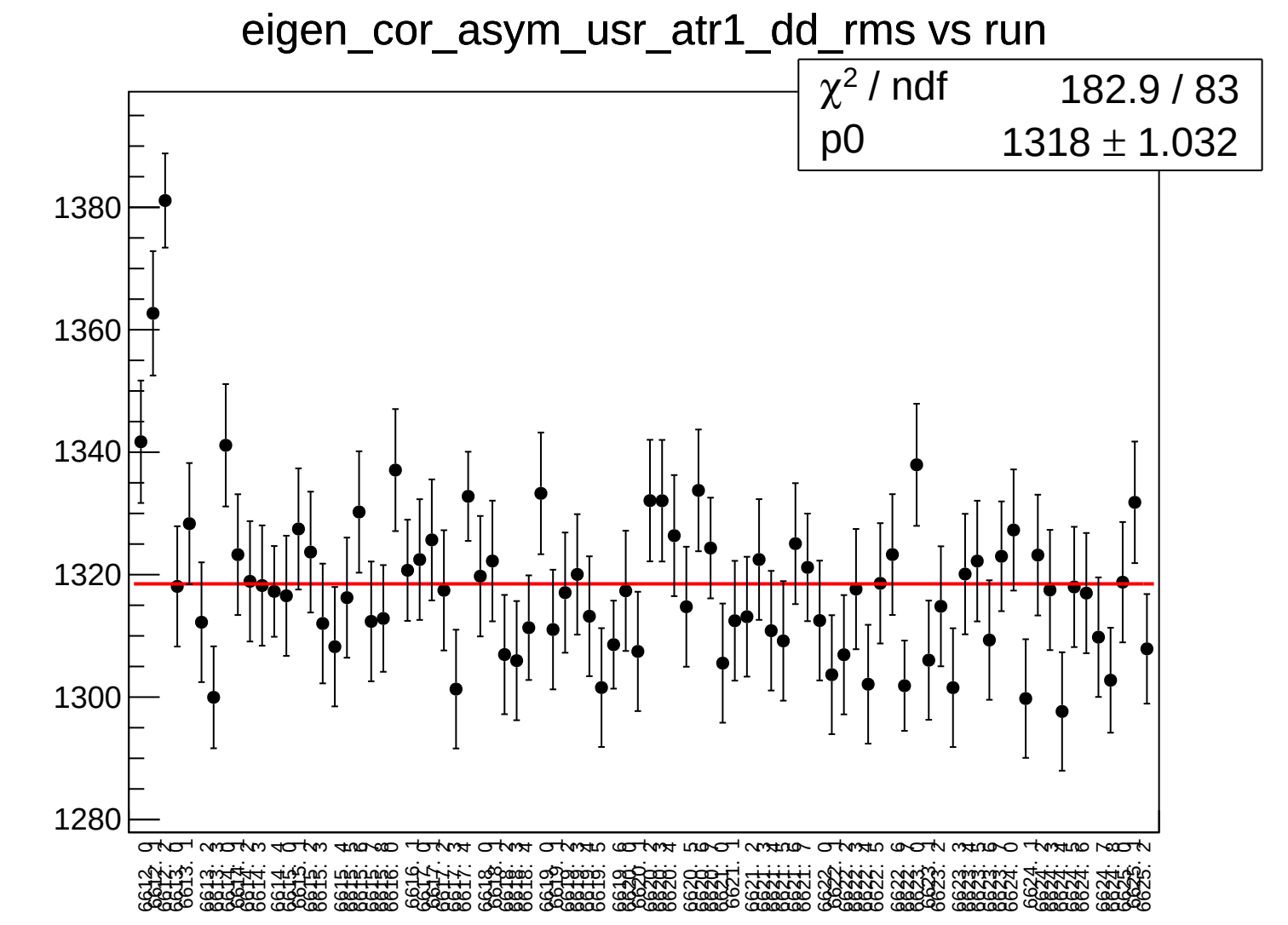

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 75.12 / 83
p0 738.5 ± 503.4
pull
Entries 84
Mean 324.7
Std Dev 0

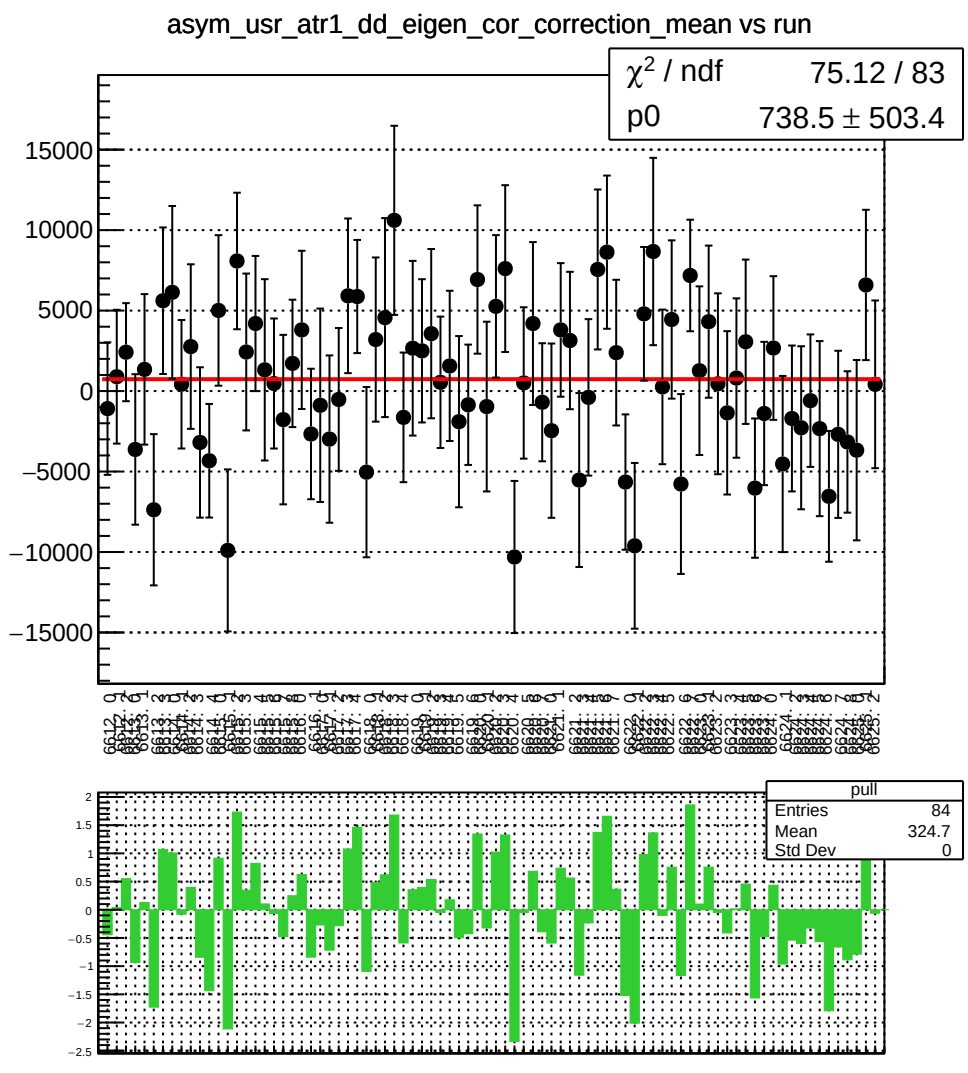

pull1D
Entries 84
Mean −0.007498
Std Dev 0.9456

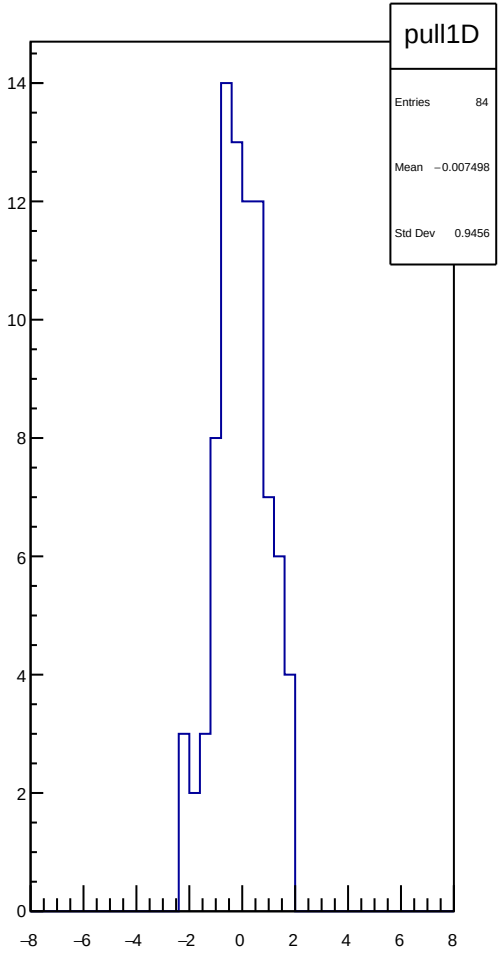

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.682e+04 / 83
p0 452.5 ± 0.3559
600
550
500
450
400

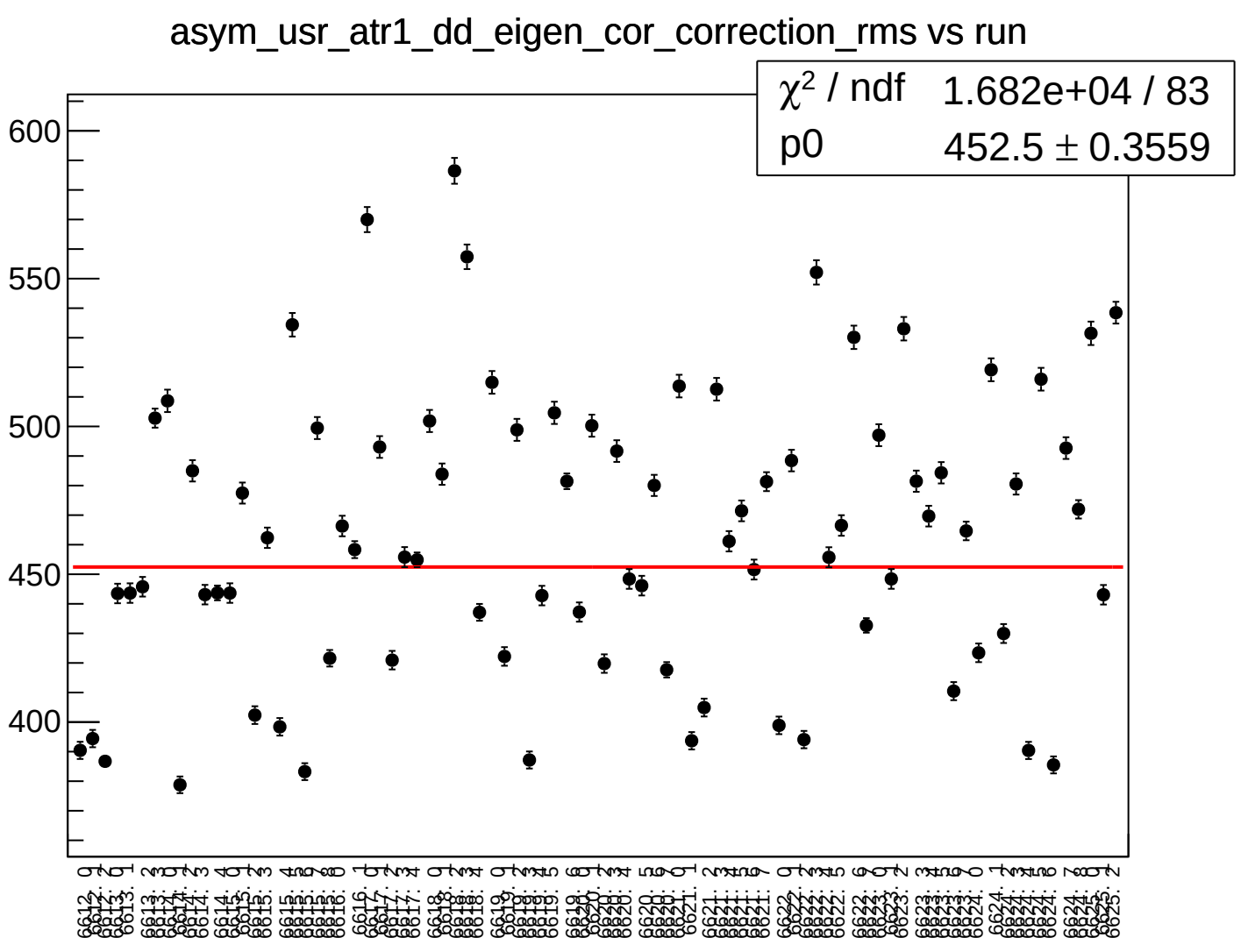

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 74.36 / 83
p0 583.1 ± 1459
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −63.69
Std Dev 0
2
1
0
−1
−2

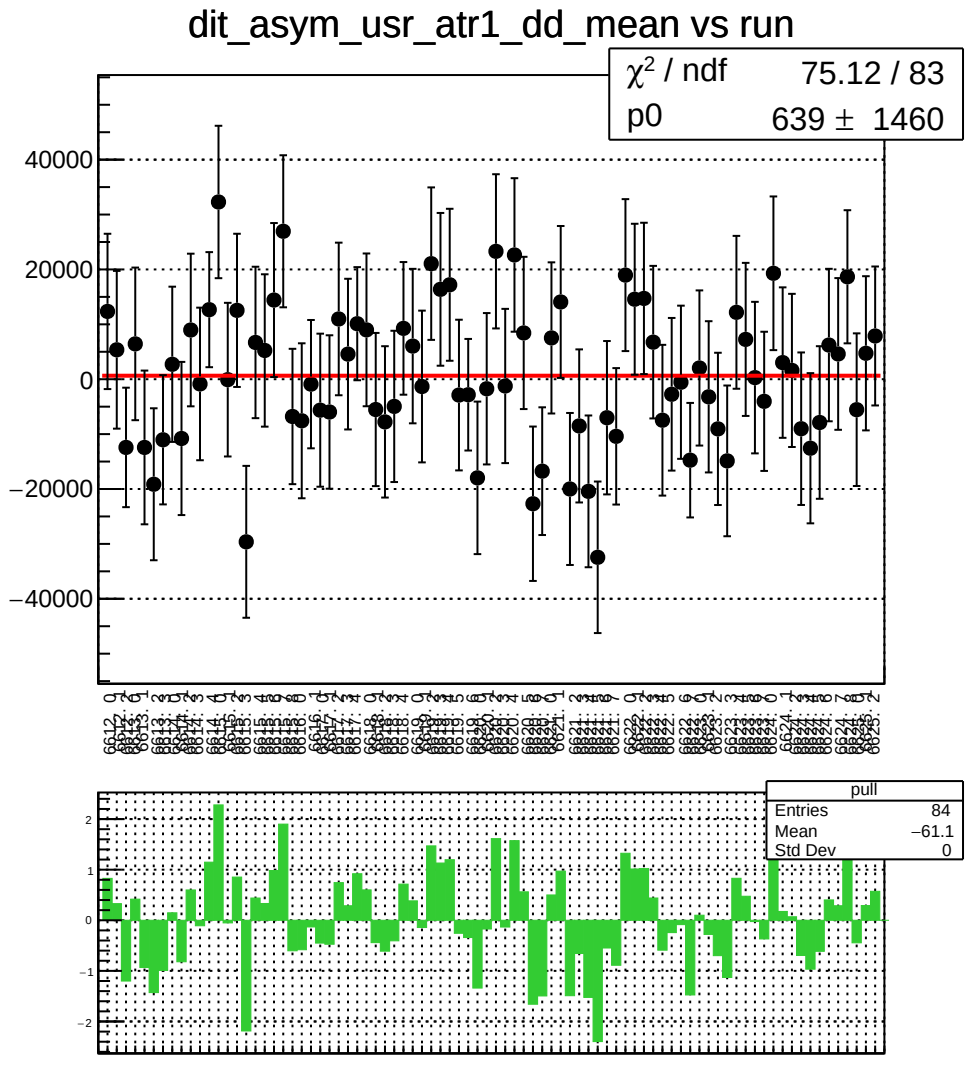

pull1D
Entries 84
Mean 0.007913
Std Dev 0.9408
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

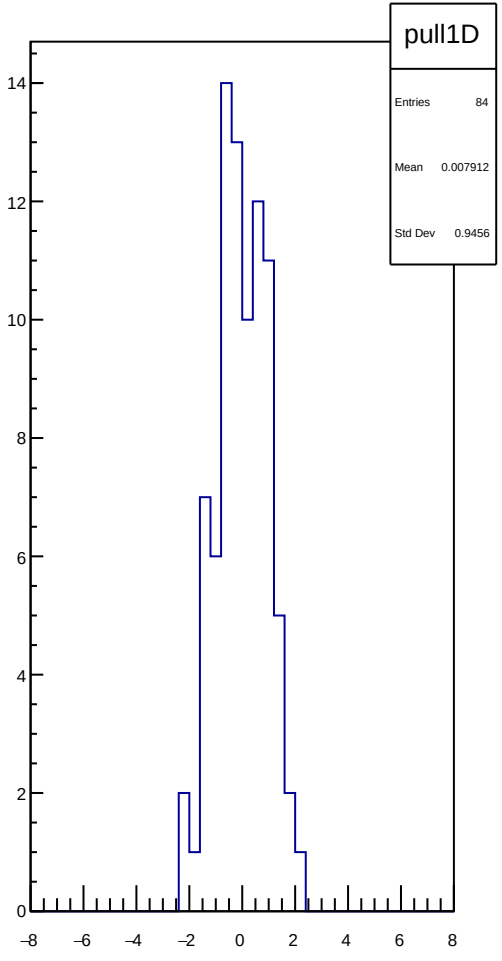

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 182.9 / 83
p0 1318 ± 1.032
1380
1360
1340
1320
1300
1280

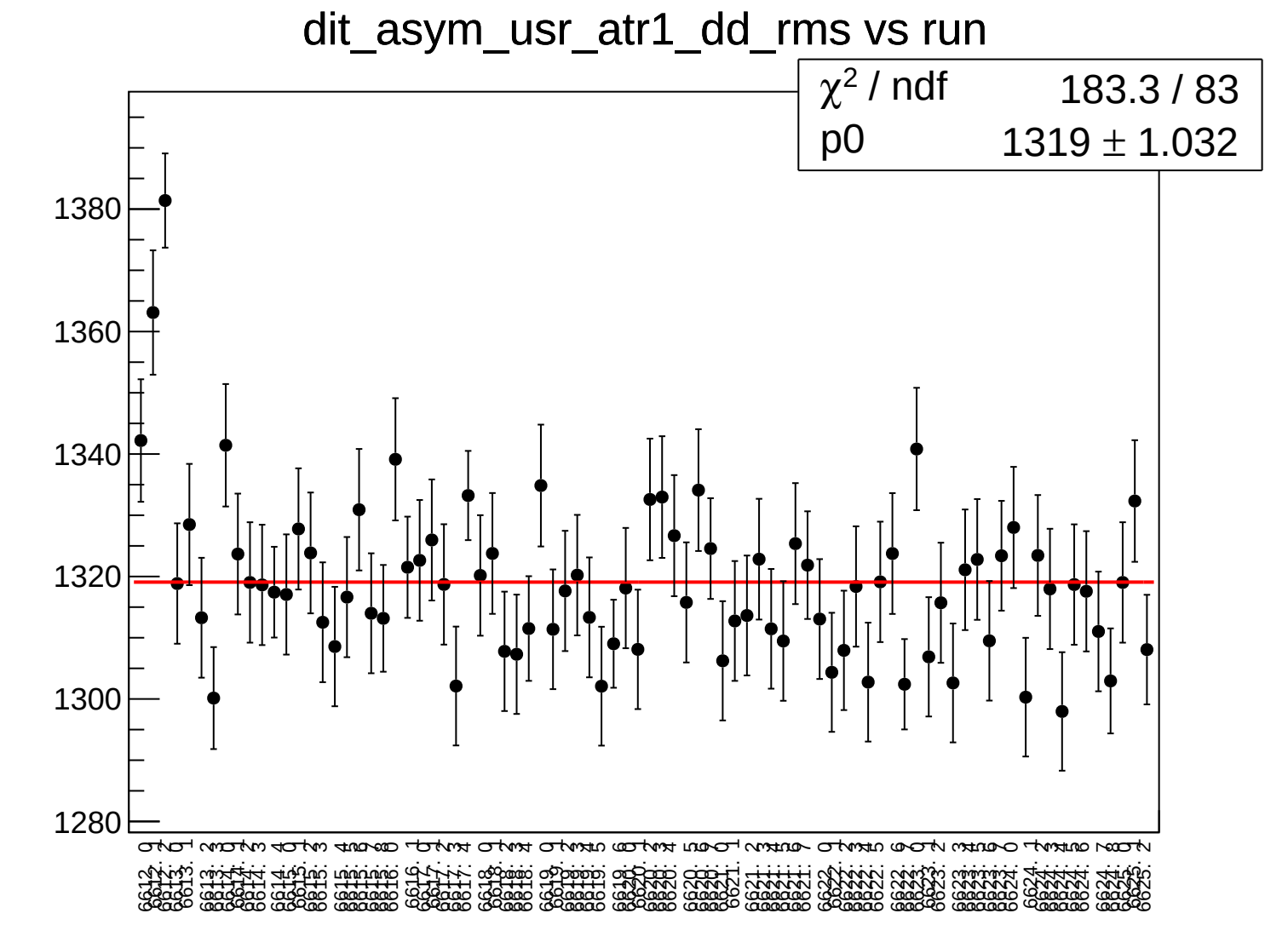

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.12 / 83
p0 738.5 ± 503.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 324.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

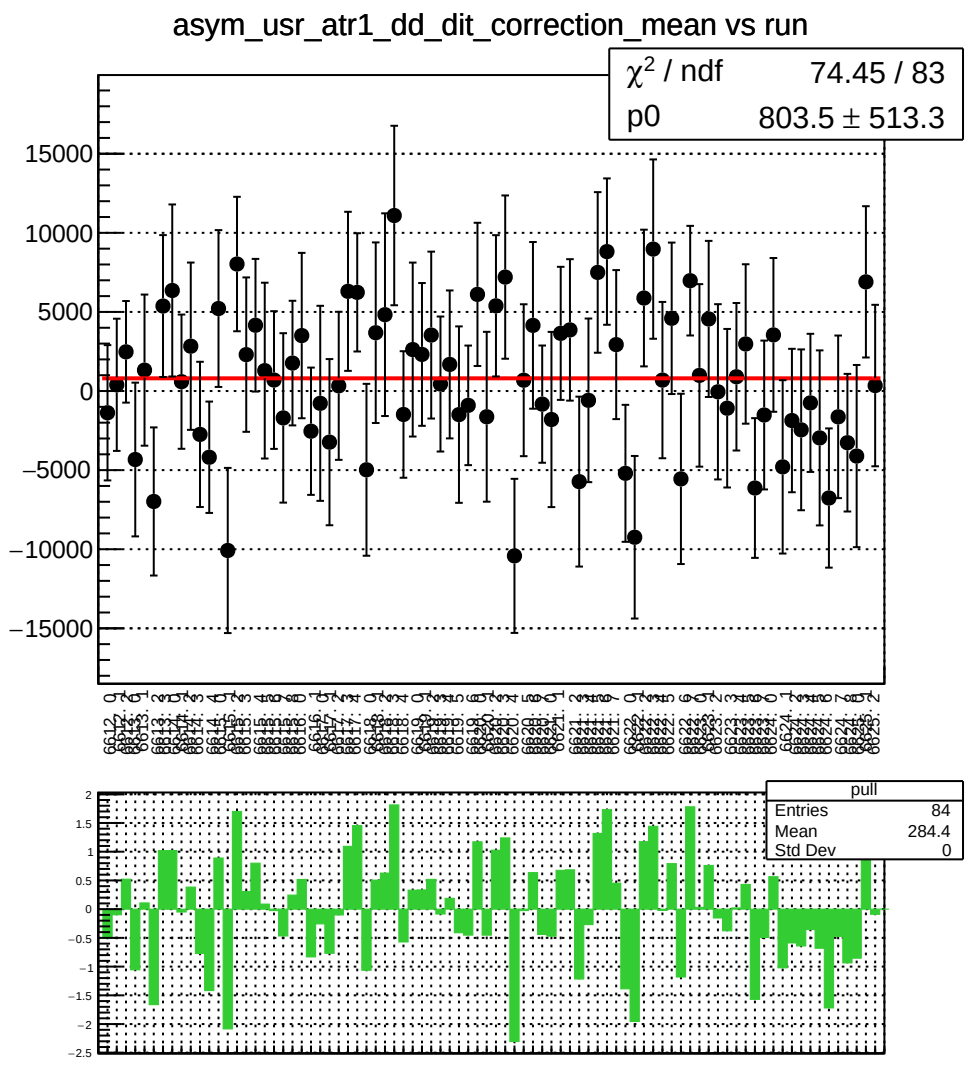

pull1D
Entries 84
Mean −0.007498
Std Dev 0.9456
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

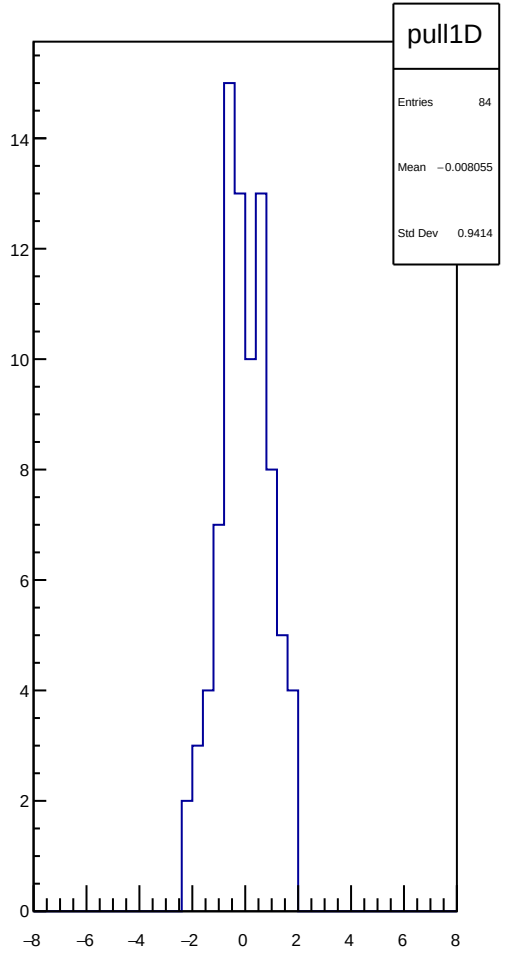

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.682e+04 / 83
p0 452.5 ± 0.3559
600
550
500
450
400

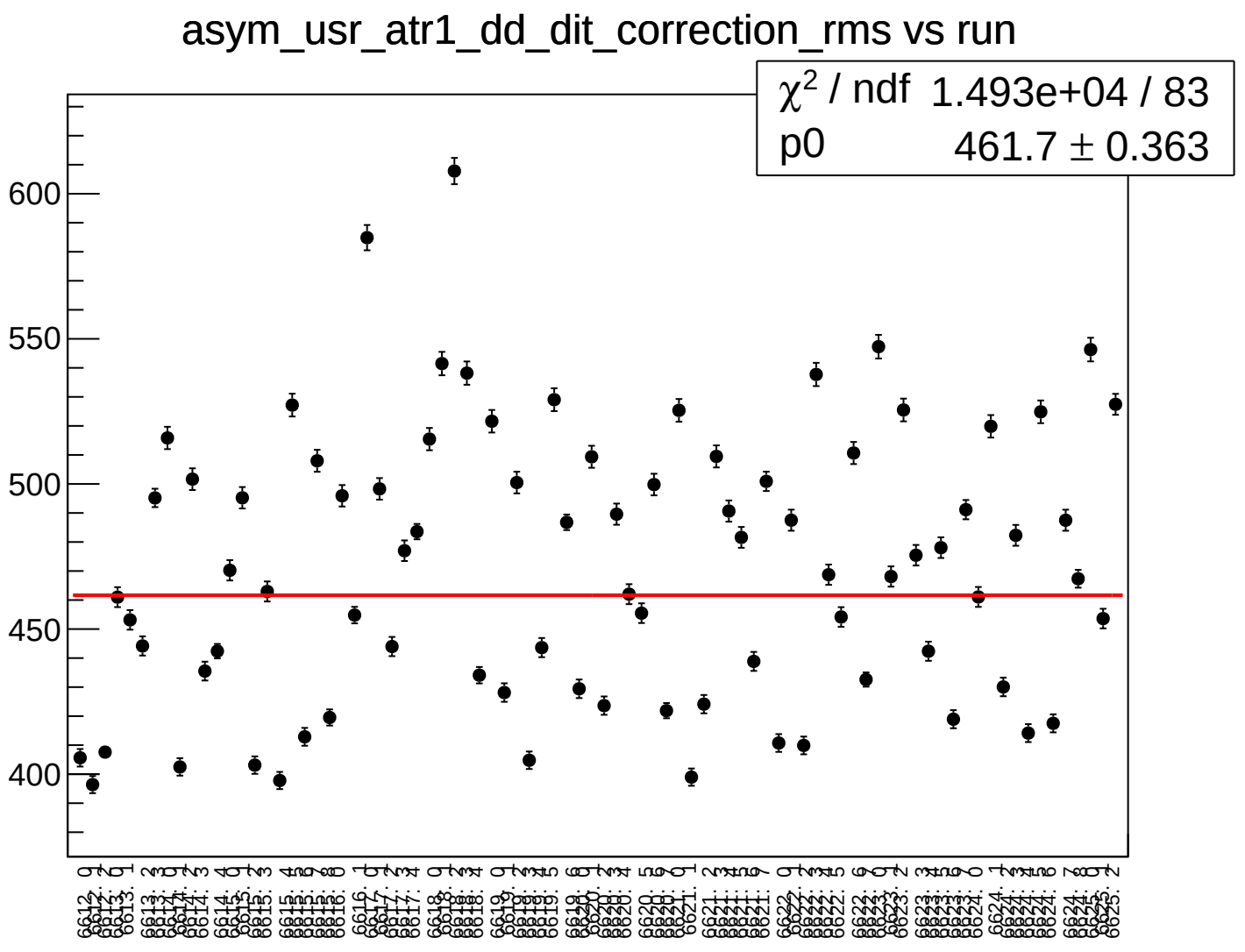

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 75.12 / 83
p0 639 ± 1460
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −61.1
Std Dev 0
2
1
0
−1
−2

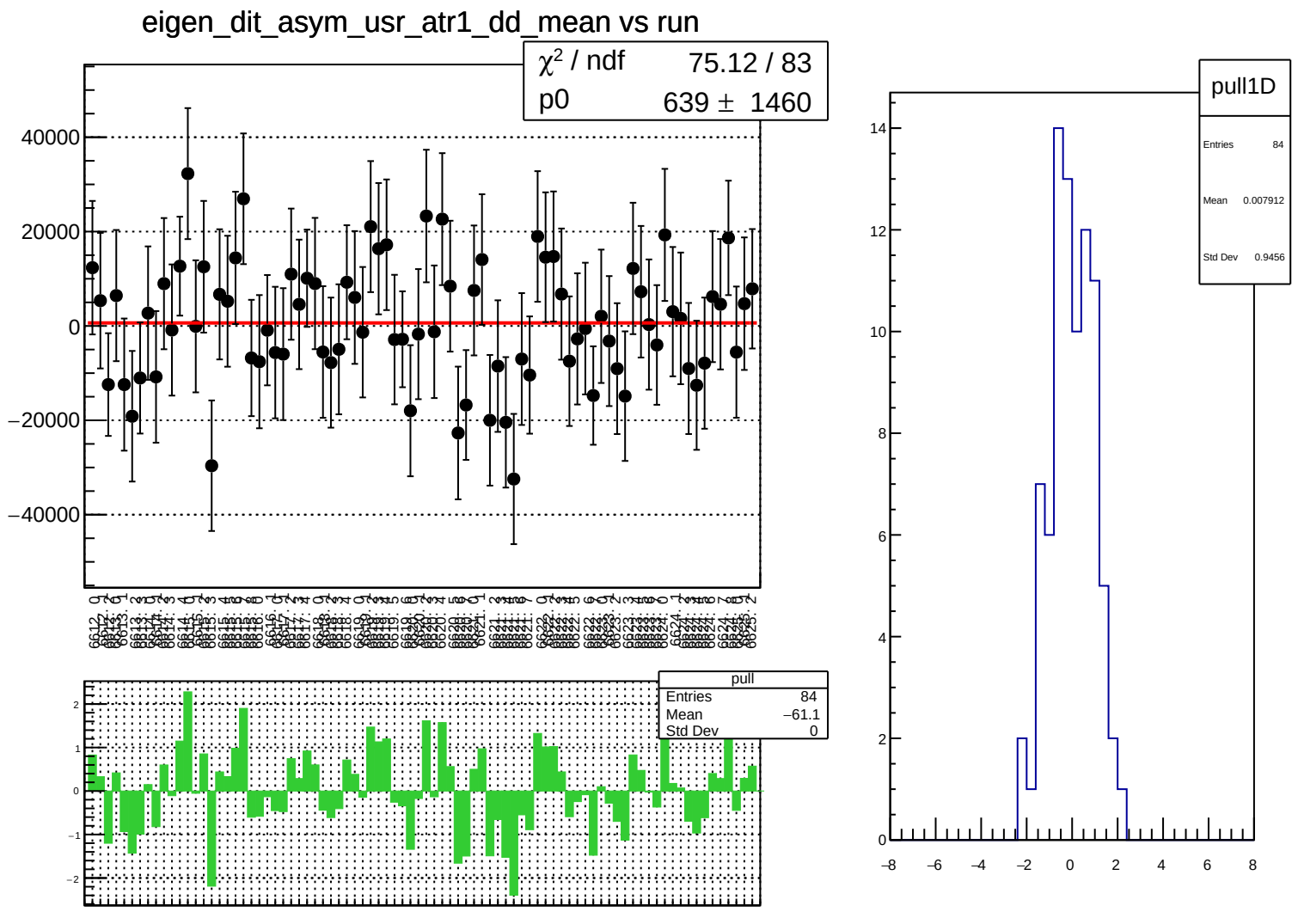

pull1D
Entries 84
Mean 0.007912
Std Dev 0.9456
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

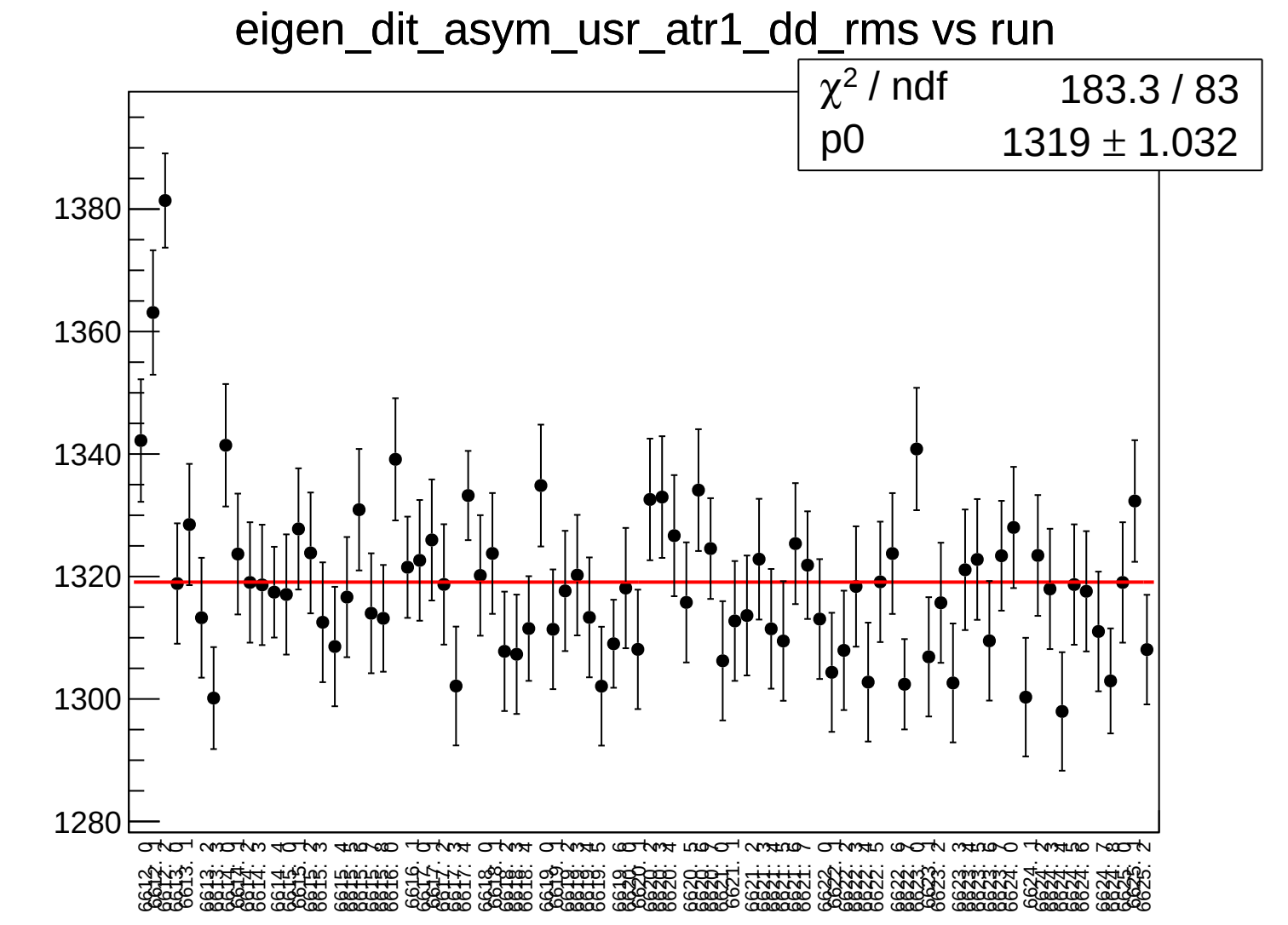

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 183.3 / 83
p0 1319 ± 1.032
1380
1360
1340
1320
1300
1280

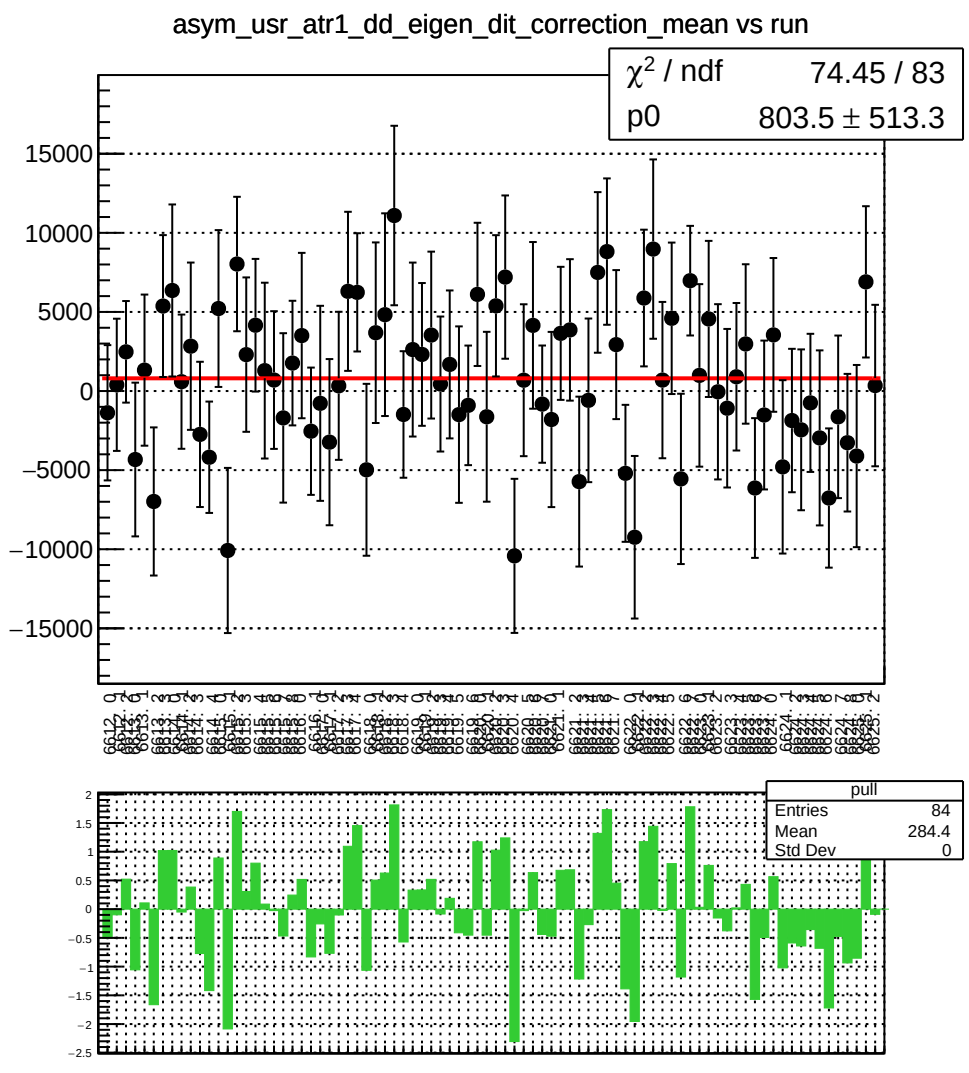

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 74.45 / 83
p0 803.5 ± 513.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 284.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

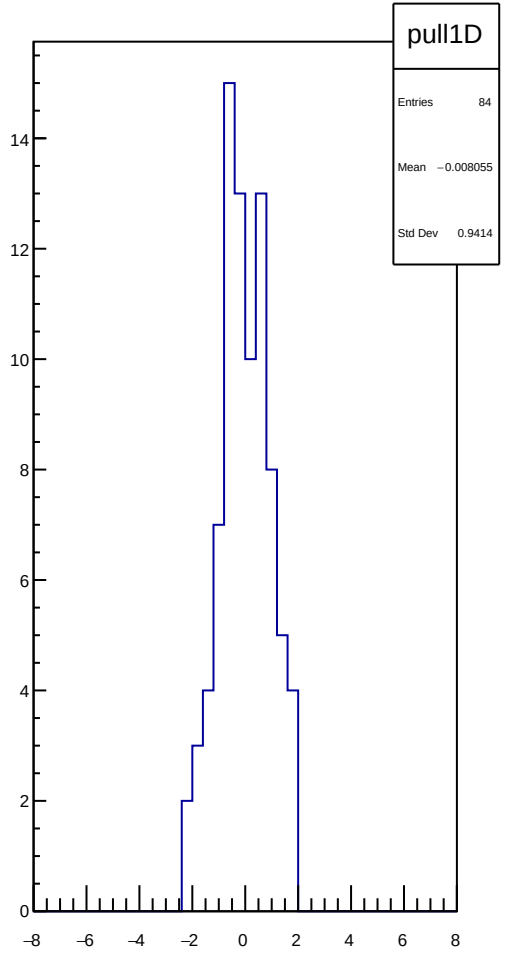

pull1D
Entries 84
Mean −0.008055
Std Dev 0.9414
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

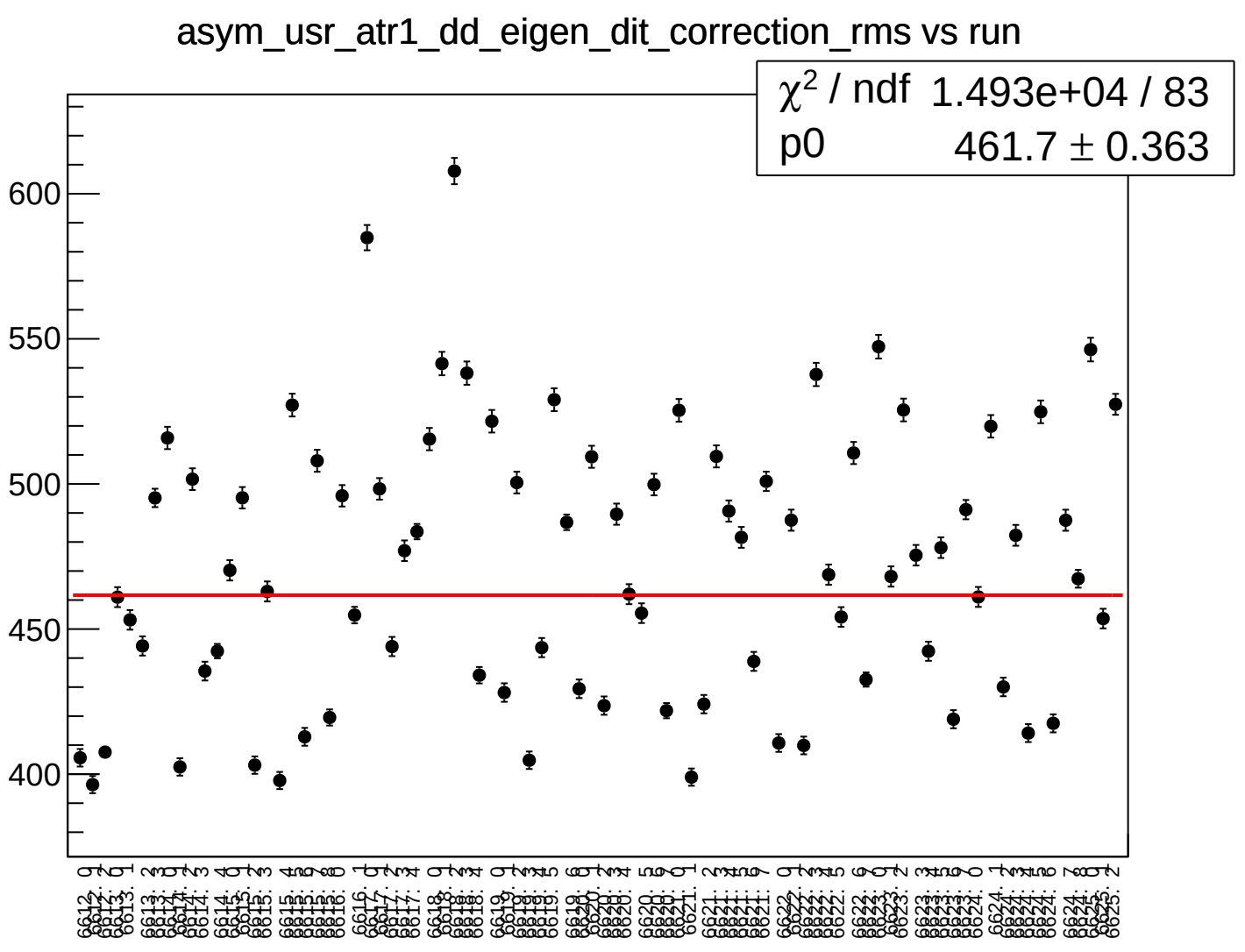

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.493e+04 / 83
p0 461.7 ± 0.363
600
550
500
450
400

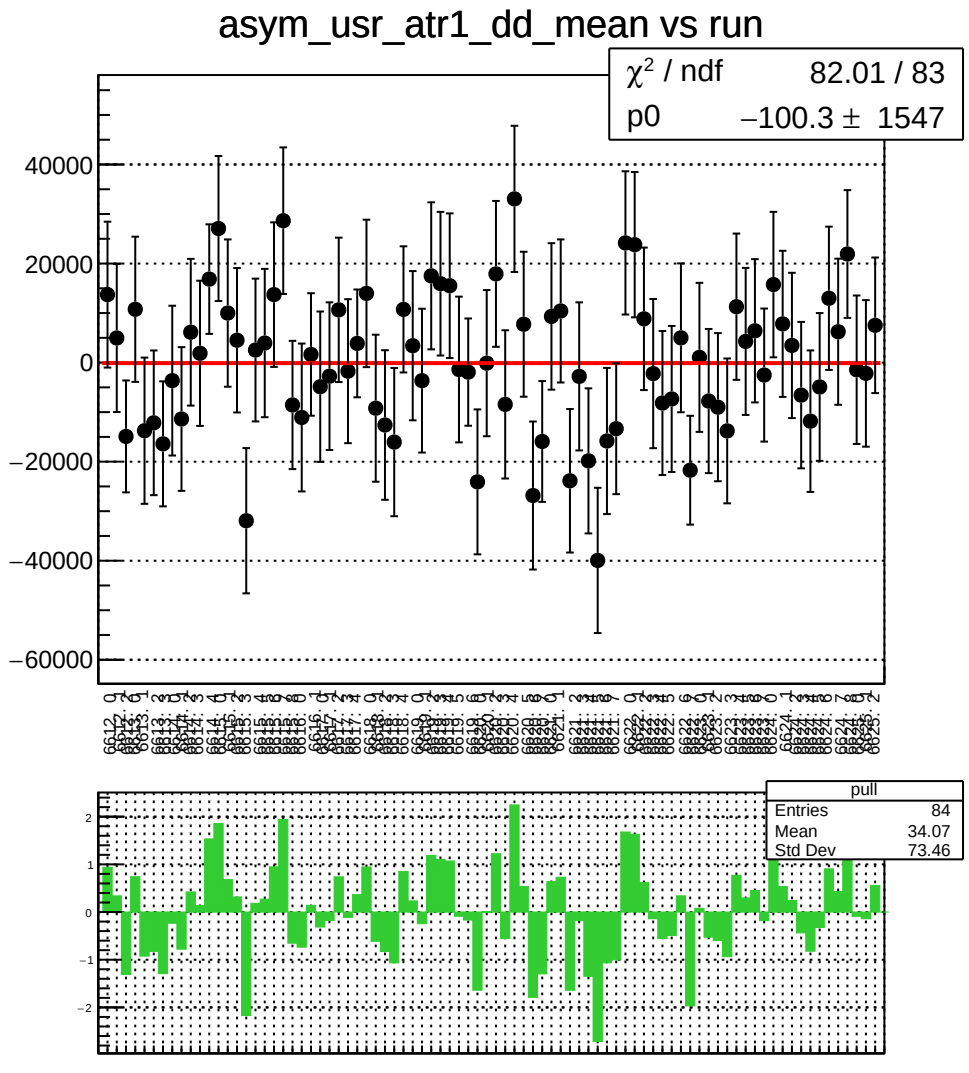

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 75.12 / 83
p0 639 ± 1460
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −61.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.007912
Std Dev 0.9456
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

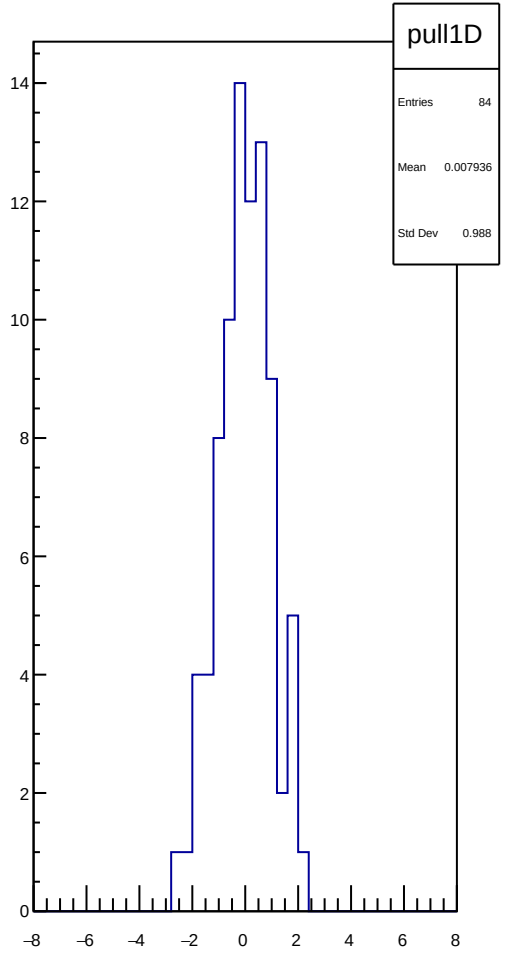

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 183.3 / 83
p0 1319 ± 1.032
1380
1360
1340
1320
1300
1280

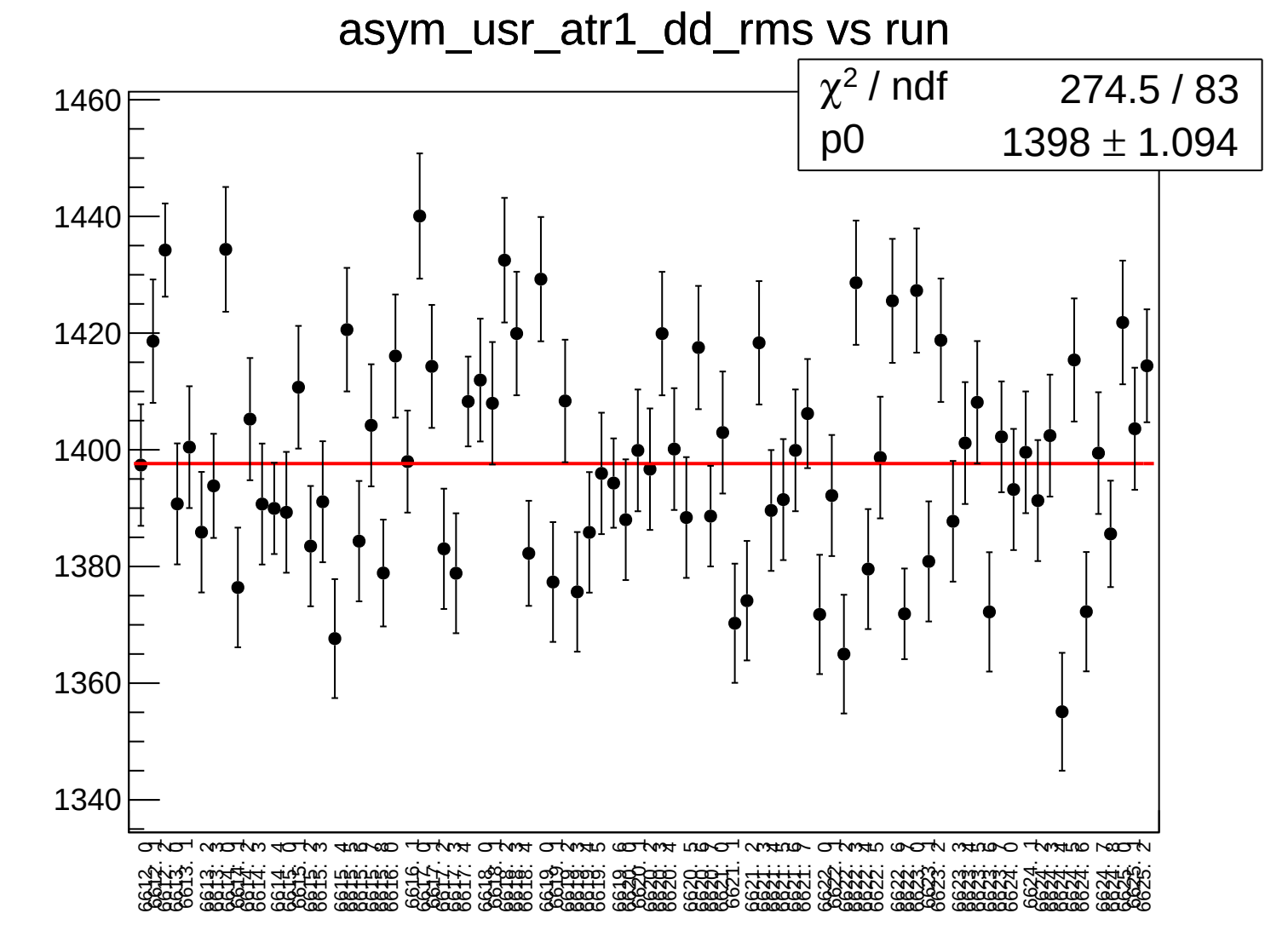

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.45 / 83
p0 803.5 ± 513.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 284.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

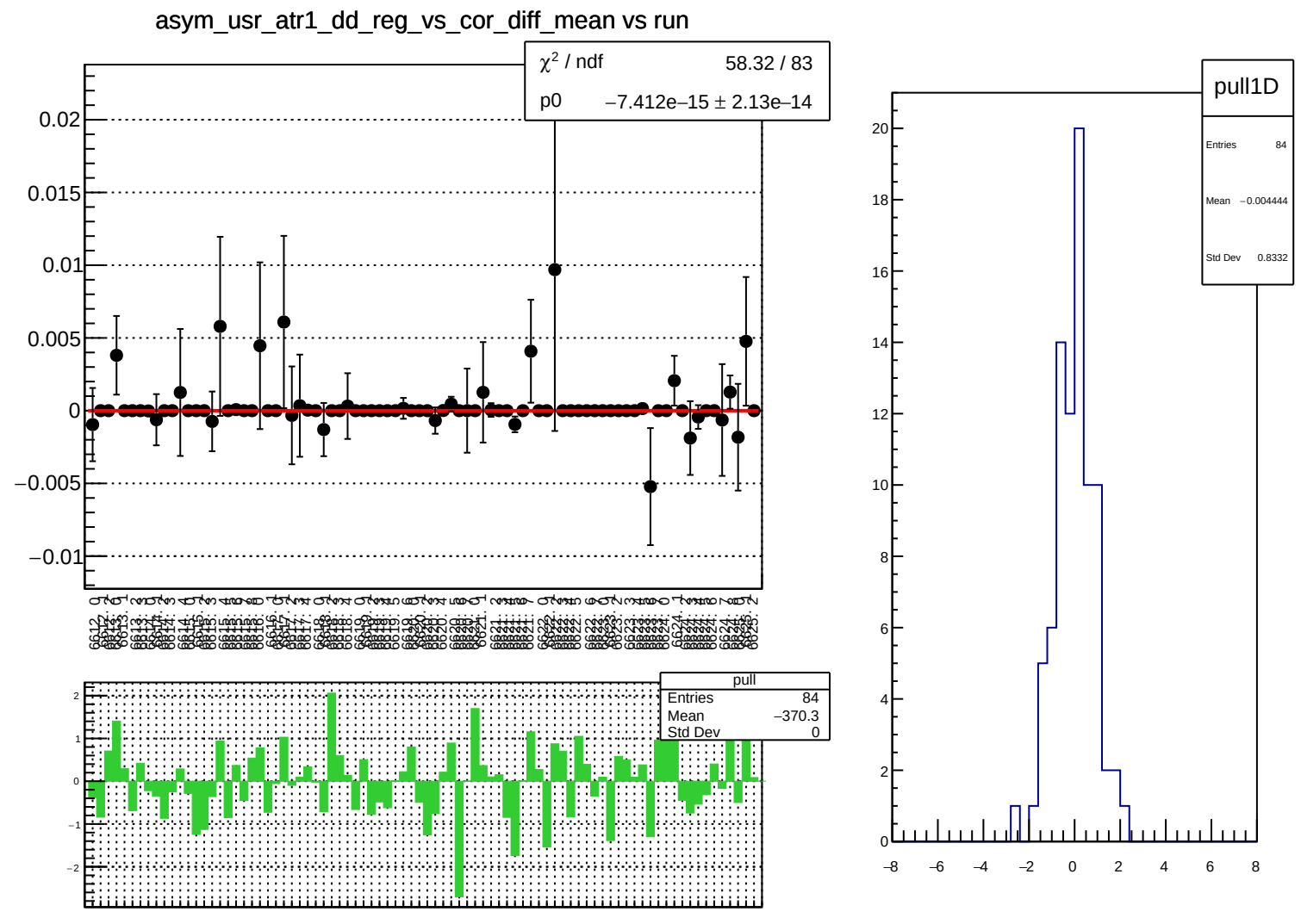

pull1D
Entries 84
Mean −0.008055
Std Dev 0.9414
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

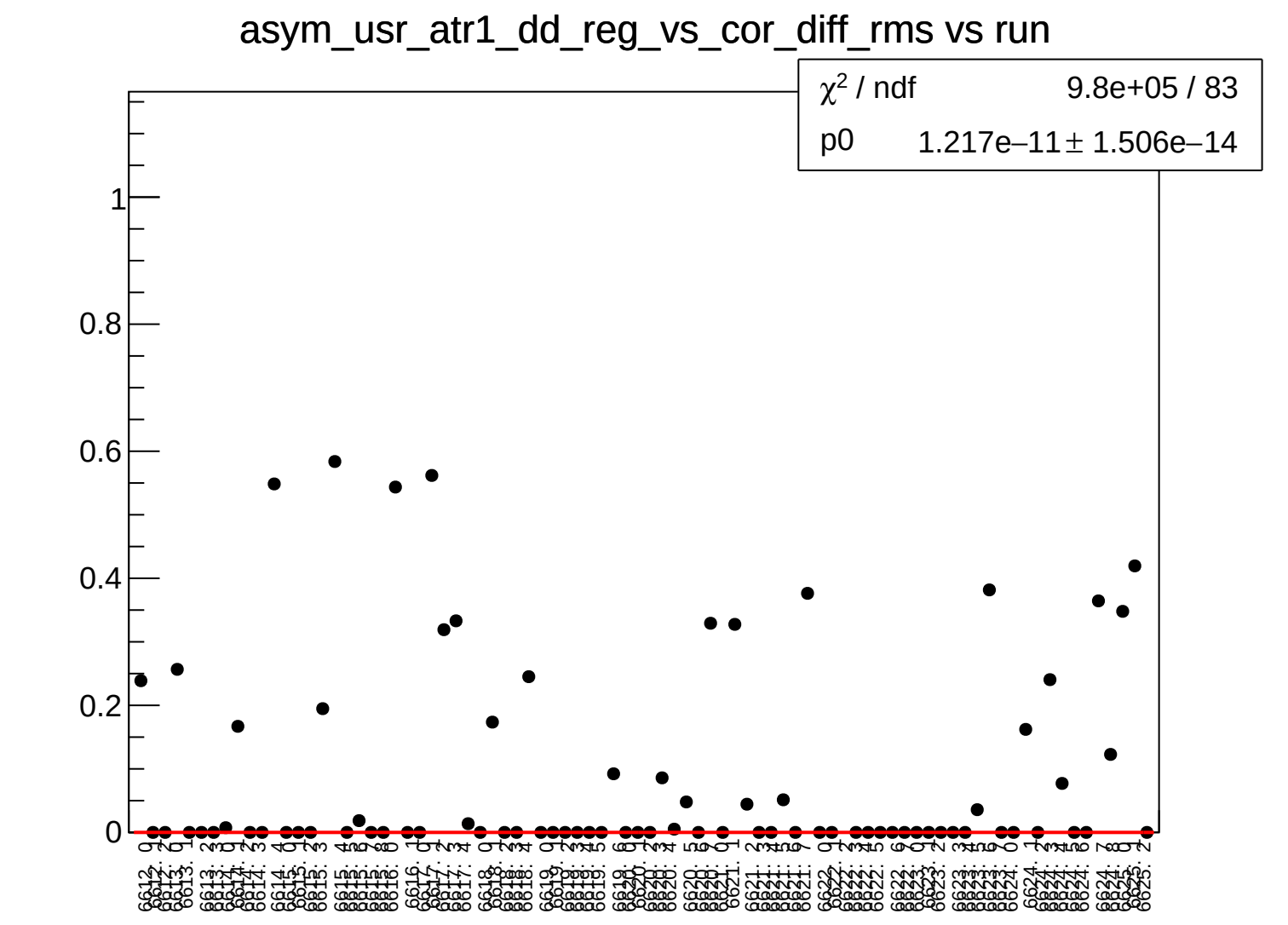

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.493e+04 / 83
p0 461.7 ± 0.363
600
550
500
450
400

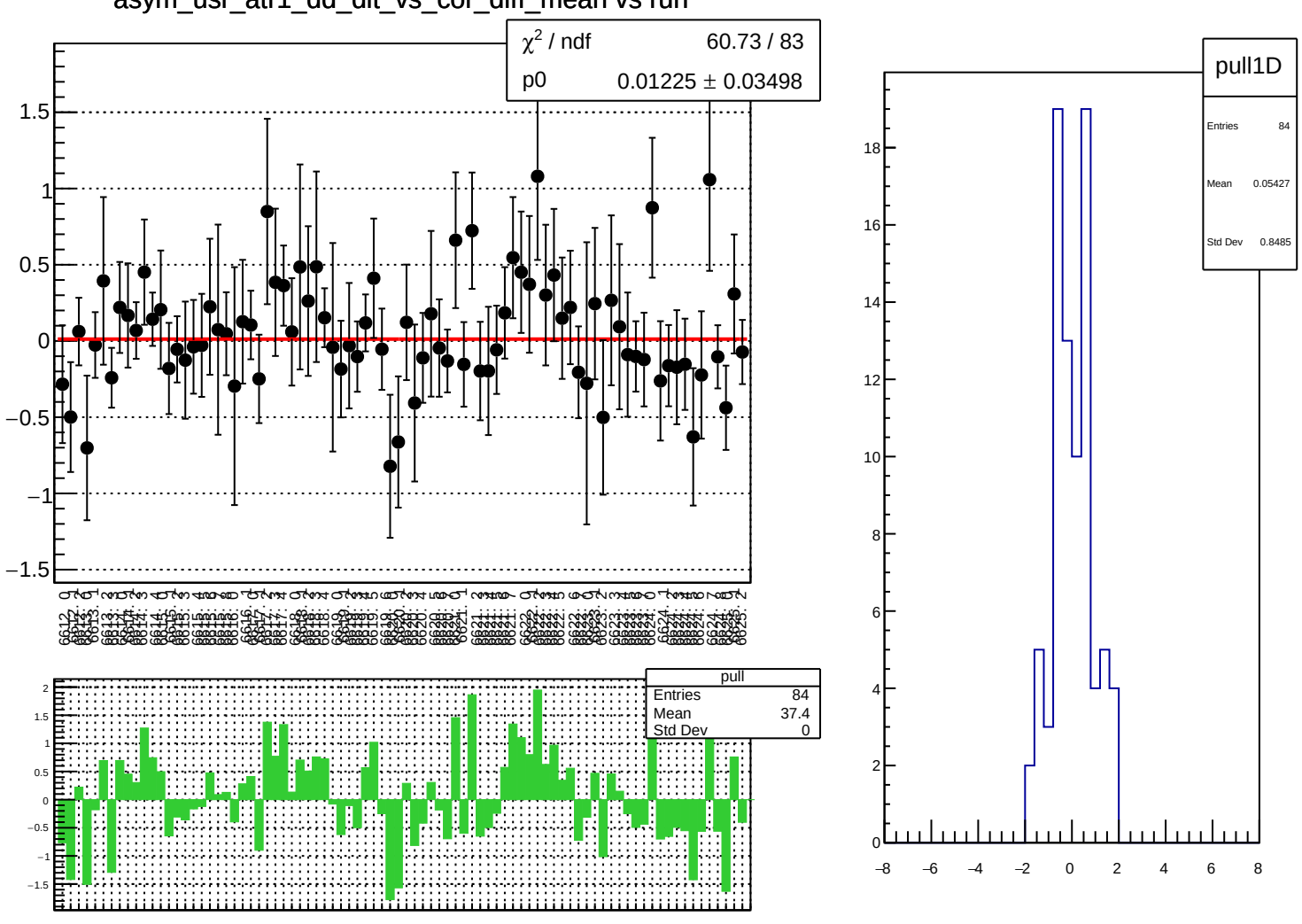

asym_usr_atr1_dd_mean vs run
χ² / ndf 82.01 / 83
p0 −100.3 ± 1547
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 34.07
Std Dev 73.46
2
1
0
−1
−2

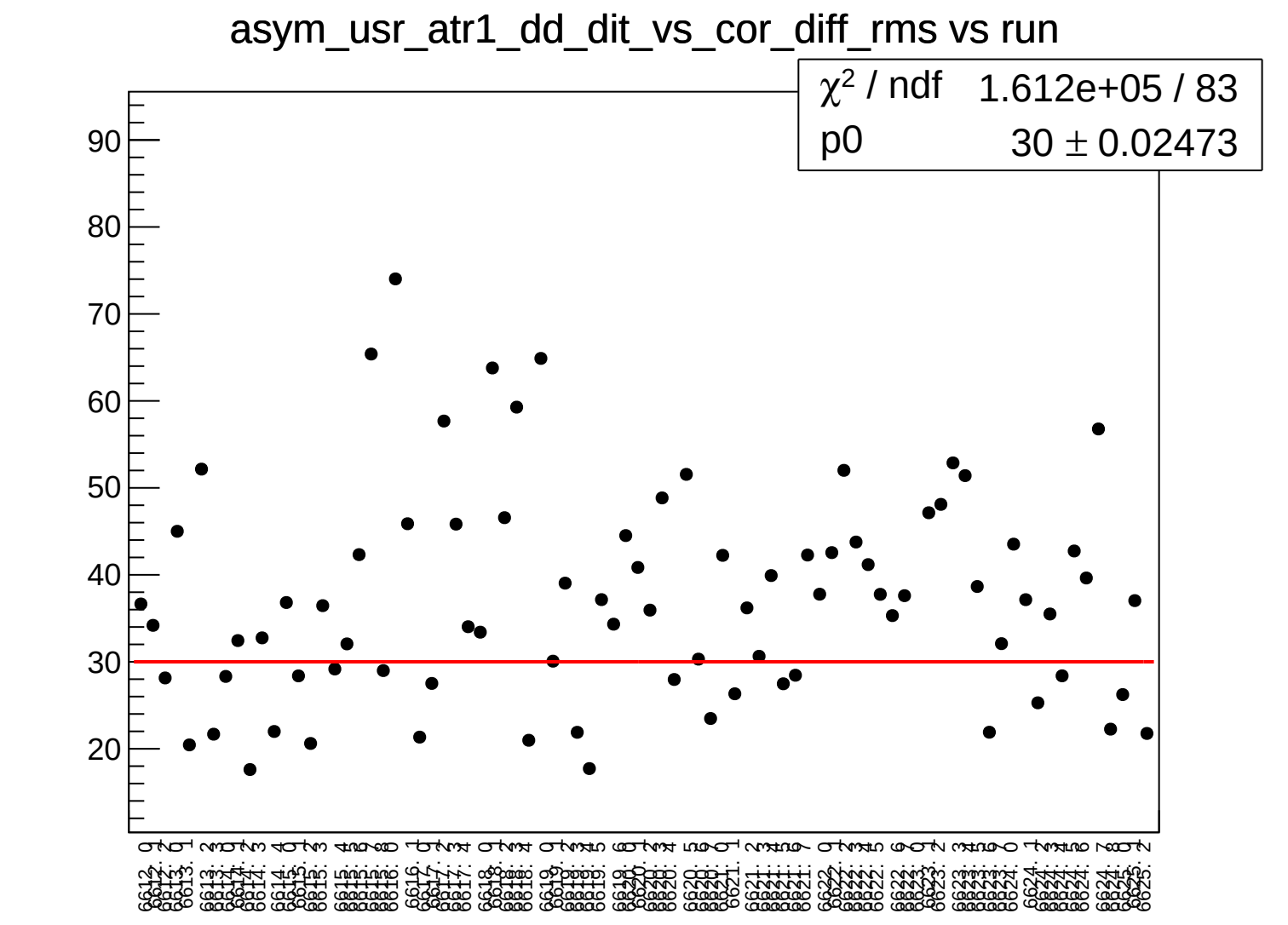

pull1D
Entries 84
Mean 0.007936
Std Dev 0.988
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

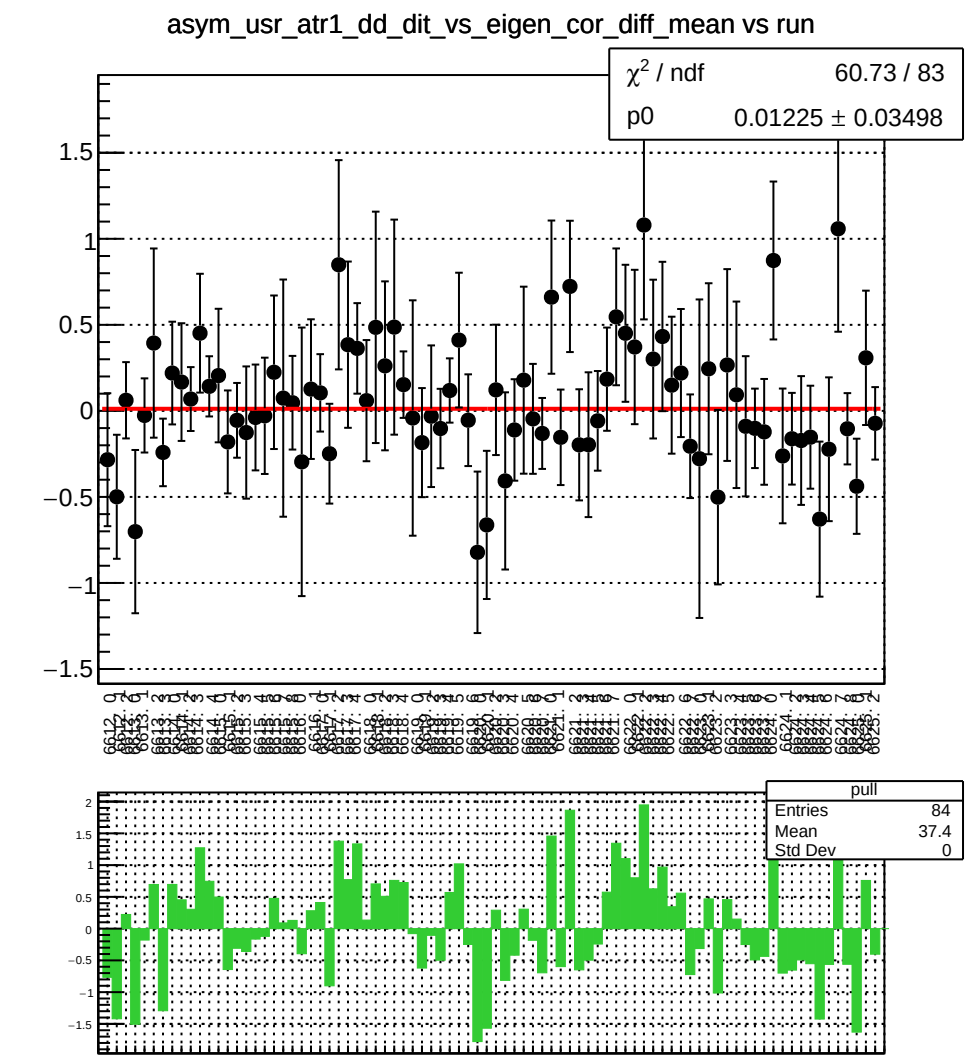

asym_usr_atr1_dd_rms vs run
χ² / ndf 274.5 / 83
p0 1398 ± 1.094
1460
1440
1420
1400
1380
1360
1340

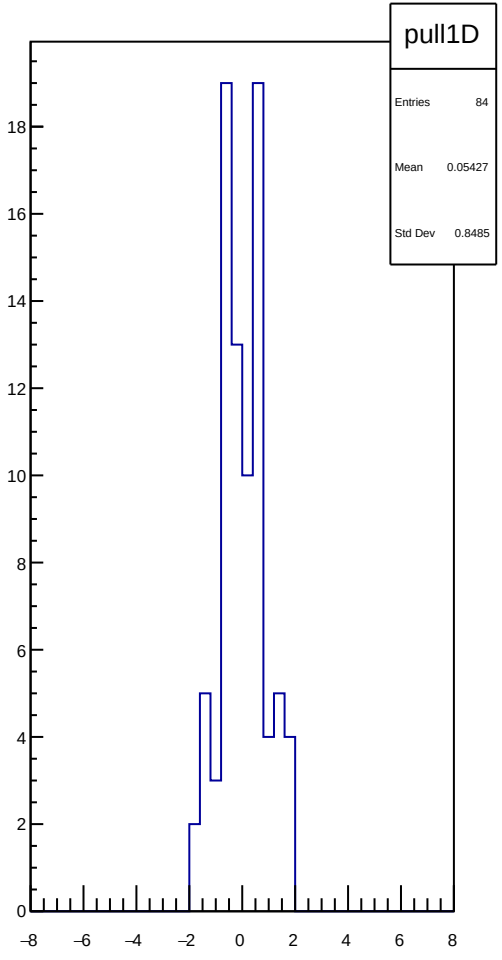

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 58.32 / 83
p0 −7.412e−15 ± 2.13e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 84
Mean −370.3
Std Dev 0
pull1D
Entries 84
Mean −0.004444
Std Dev 0.8332

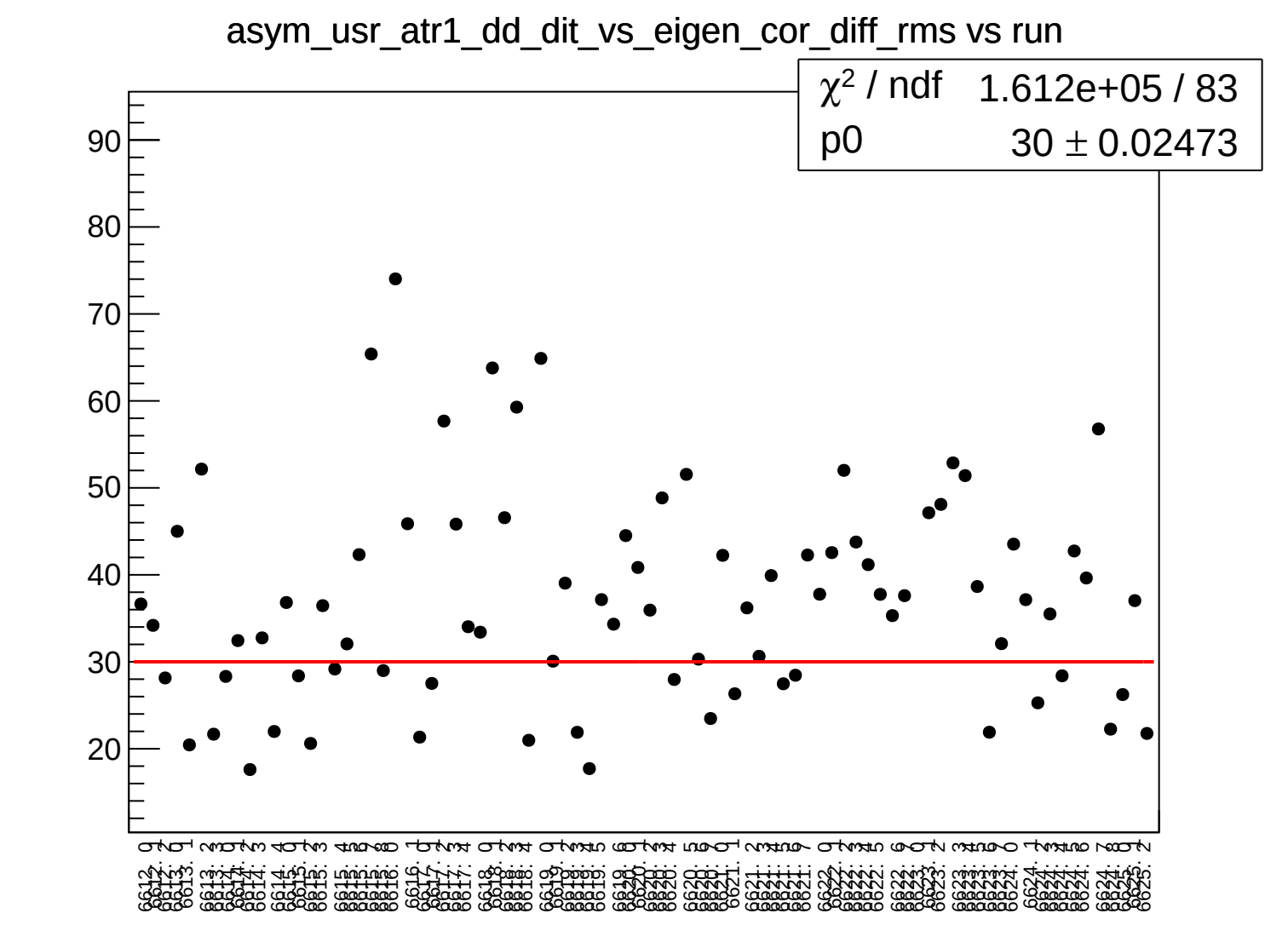

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.8e+05 / 83
p0 1.217e−11 ± 1.506e−14
1
0.8
0.6
0.4
0.2
0

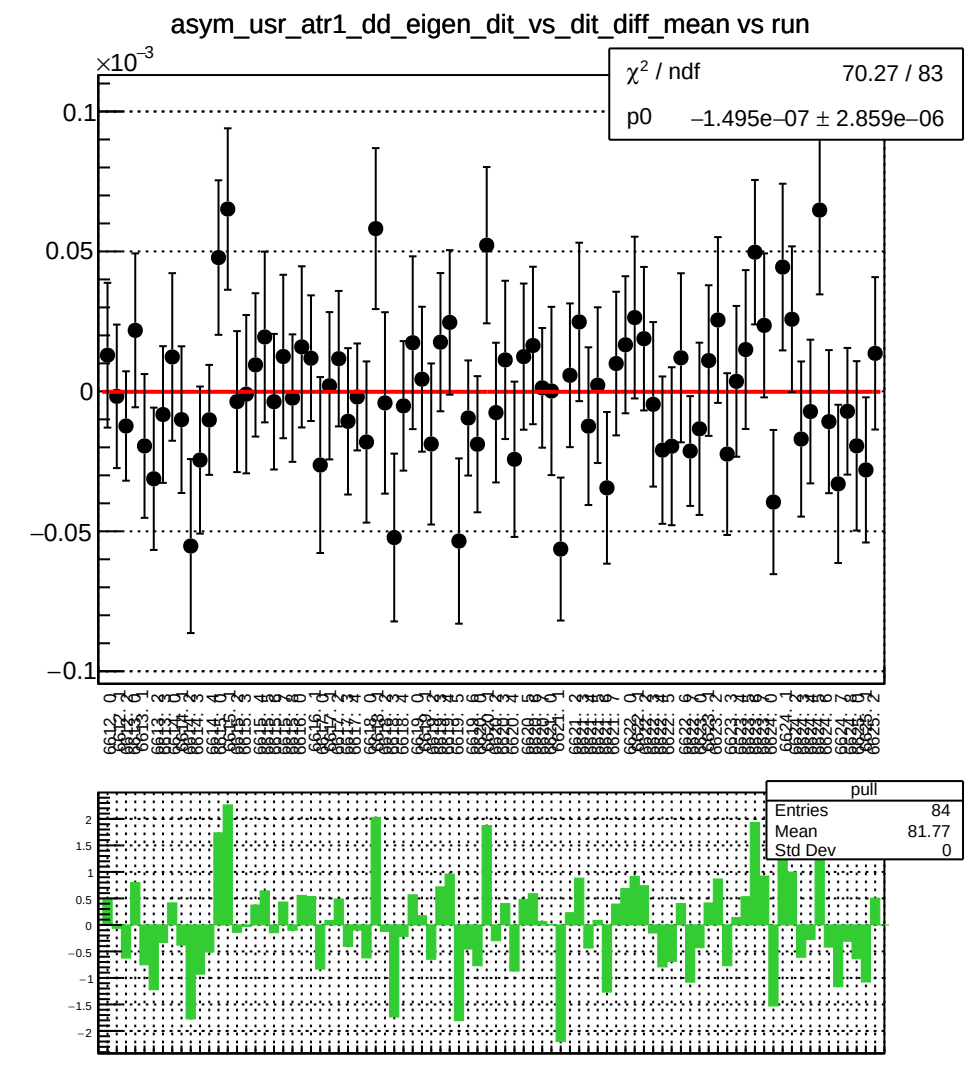

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 60.73 / 83
p0 0.01225 ± 0.03498
pull
Entries 84
Mean 37.4
Std Dev 0
pull1D
Entries 84
Mean 0.05427
Std Dev 0.8485

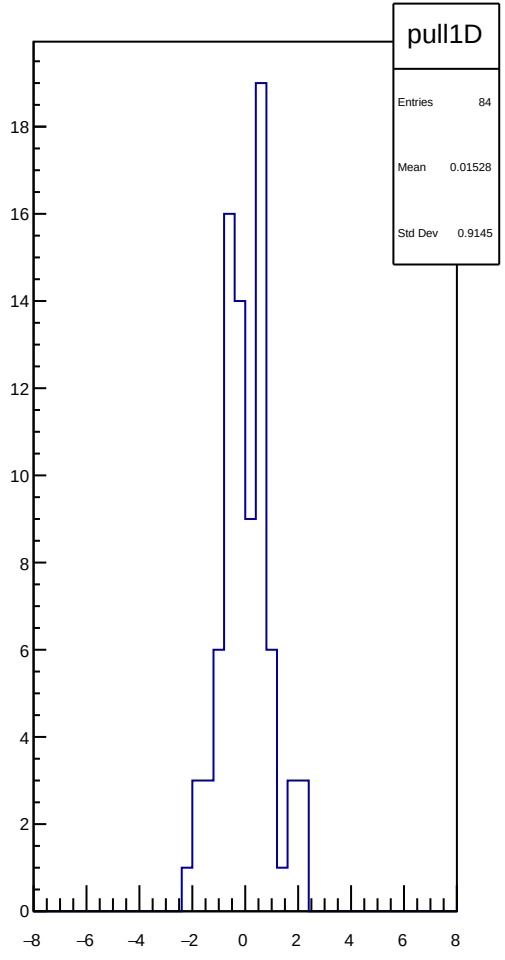

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.612e+05 / 83
p0 30 ± 0.02473
90
80
70
60
50
40
30
20

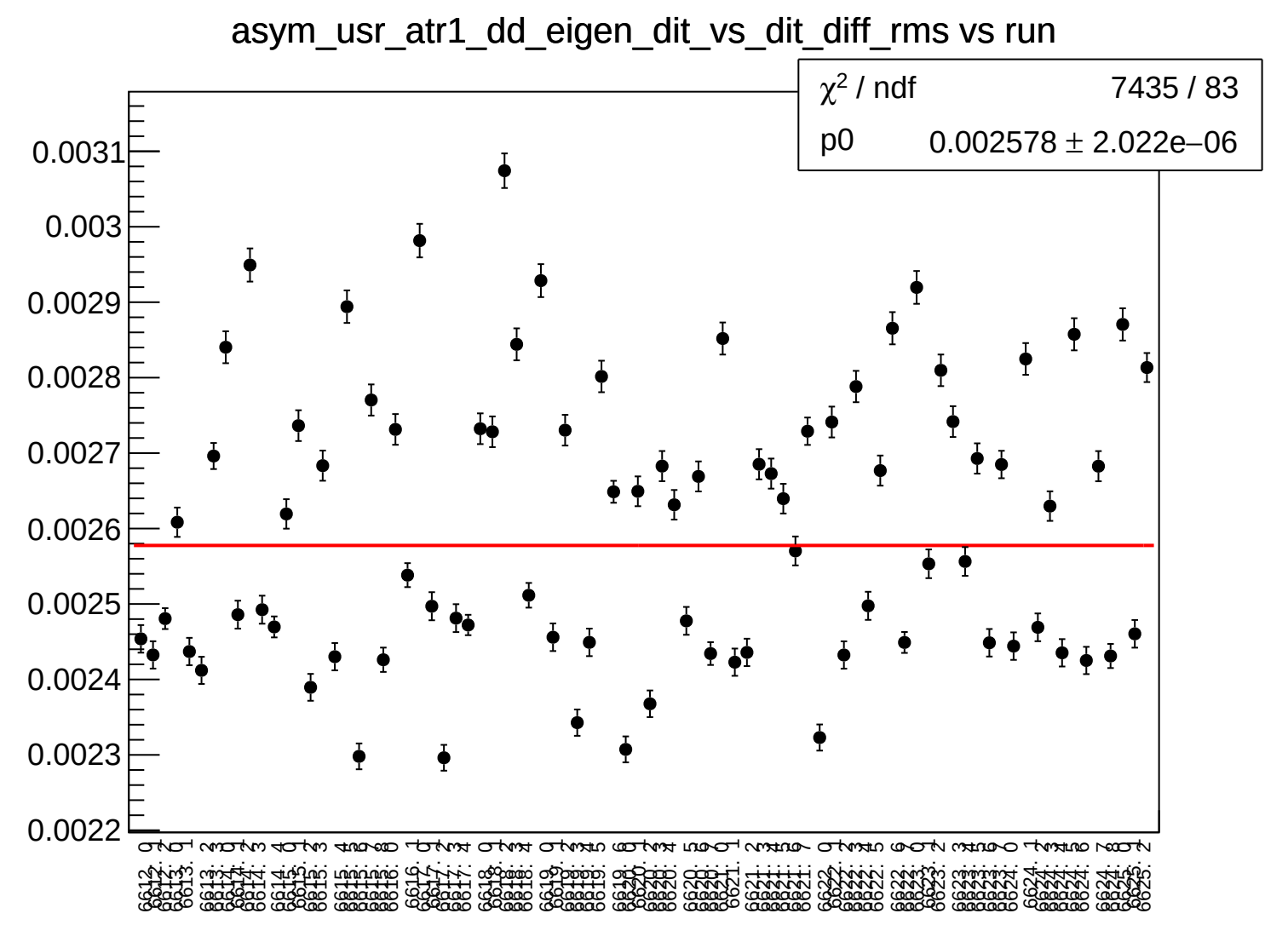

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.73 / 83
p0 0.01225 ± 0.03498
pull
Entries 84
Mean 37.4
Std Dev 0

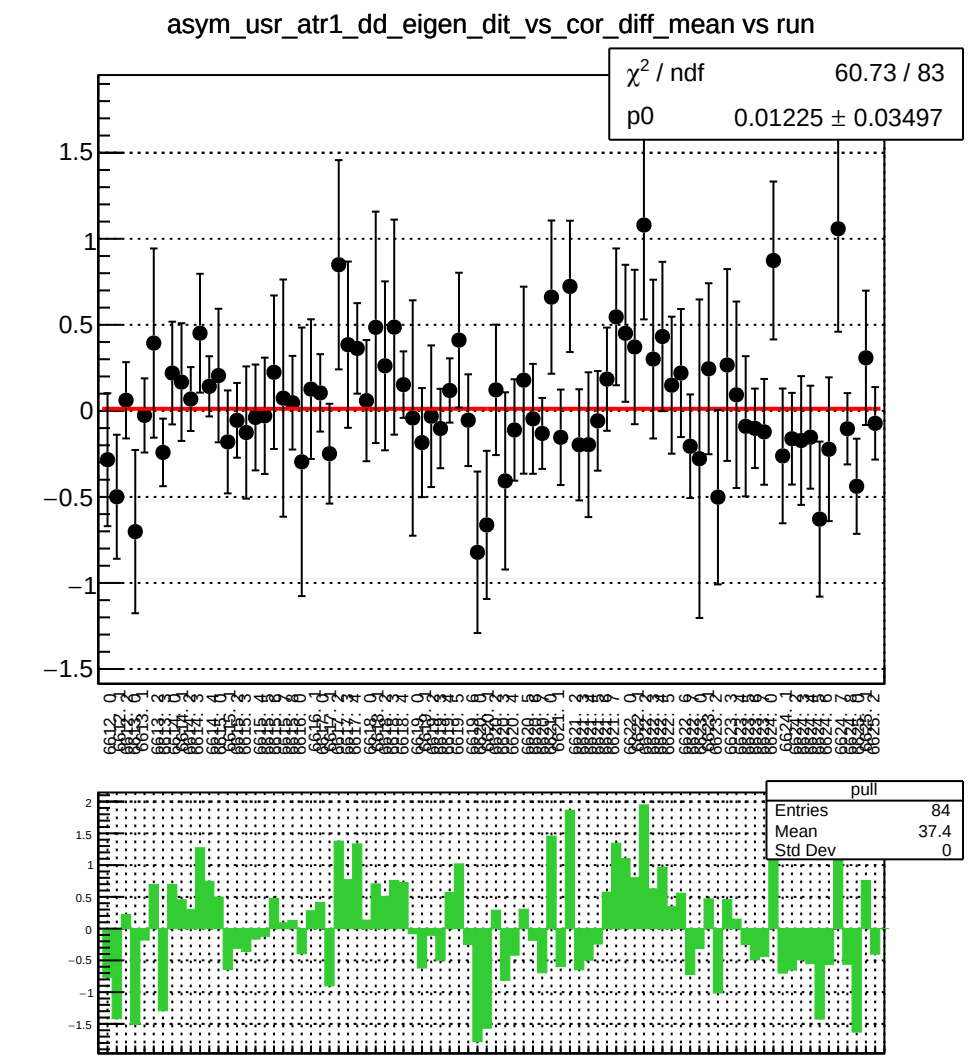

pull1D
Entries 84
Mean 0.05427
Std Dev 0.8485

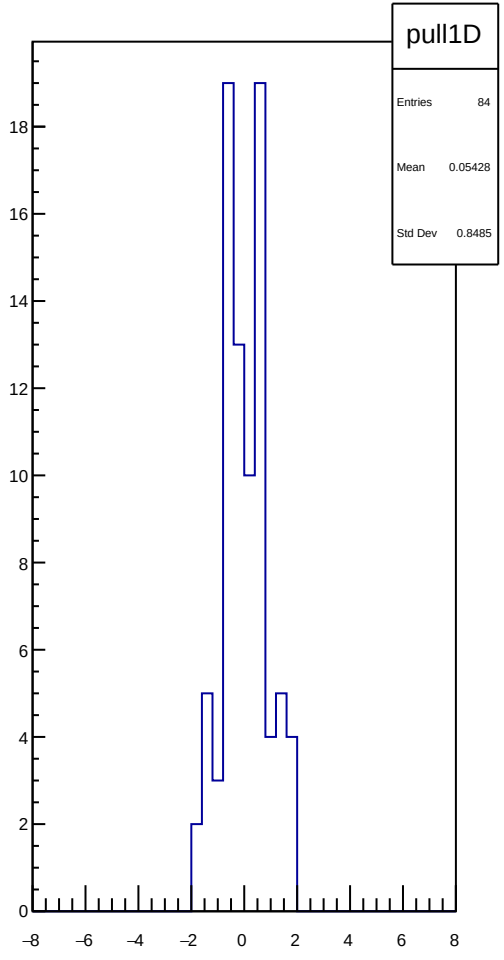

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.612e+05 / 83
p0 30 ± 0.02473
90
80
70
60
50
40
30
20

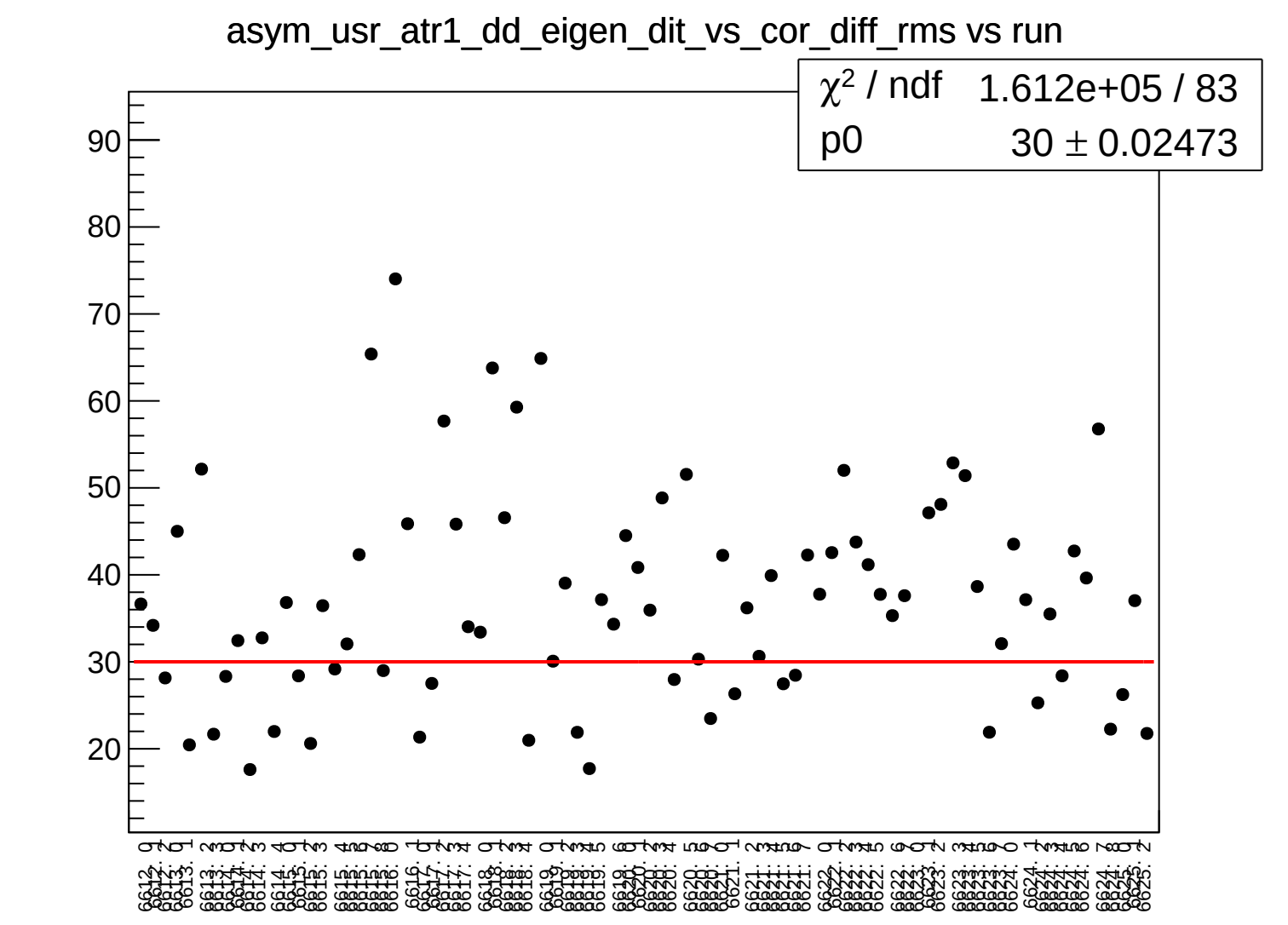

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.27 / 83
p0 −1.495e−07 ± 2.859e−06
pull
Entries 84
Mean 81.77
Std Dev 0

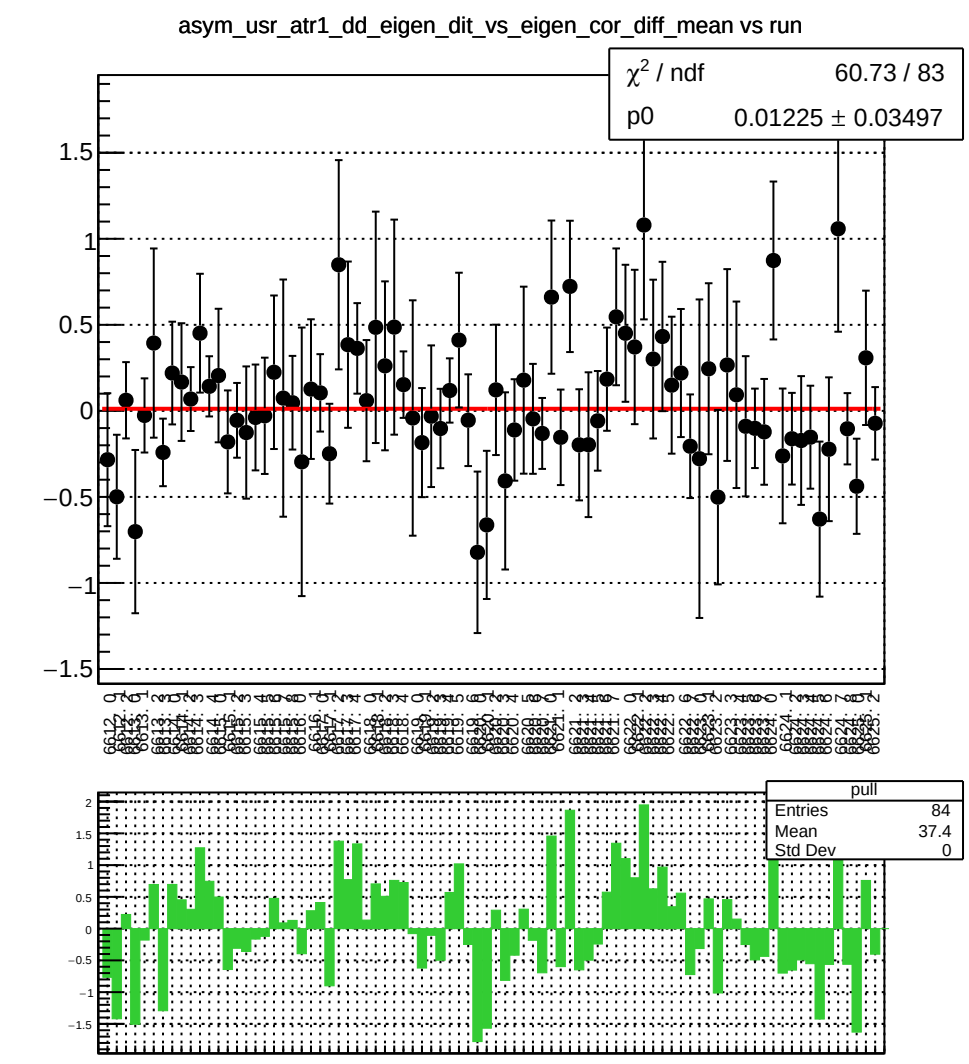

pull1D
Entries 84
Mean 0.01528
Std Dev 0.9145

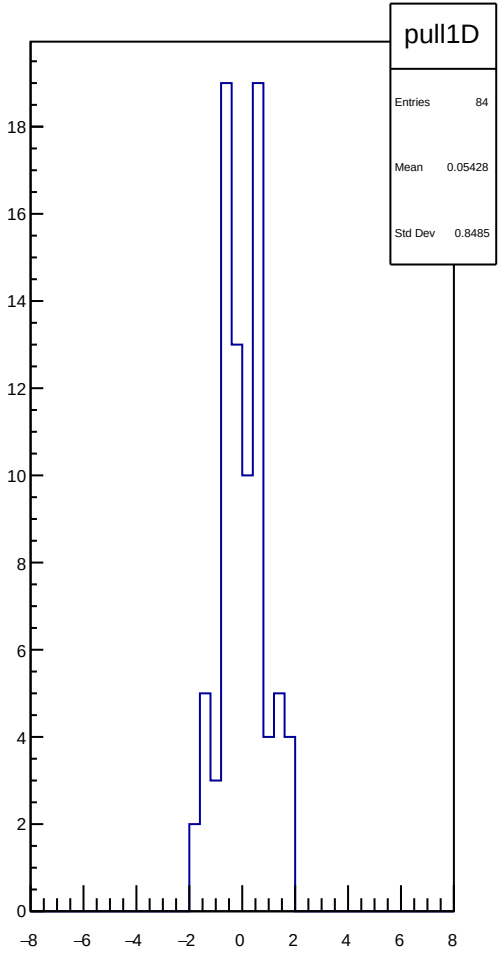

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7435 / 83
p0 0.002578 ± 2.022e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022

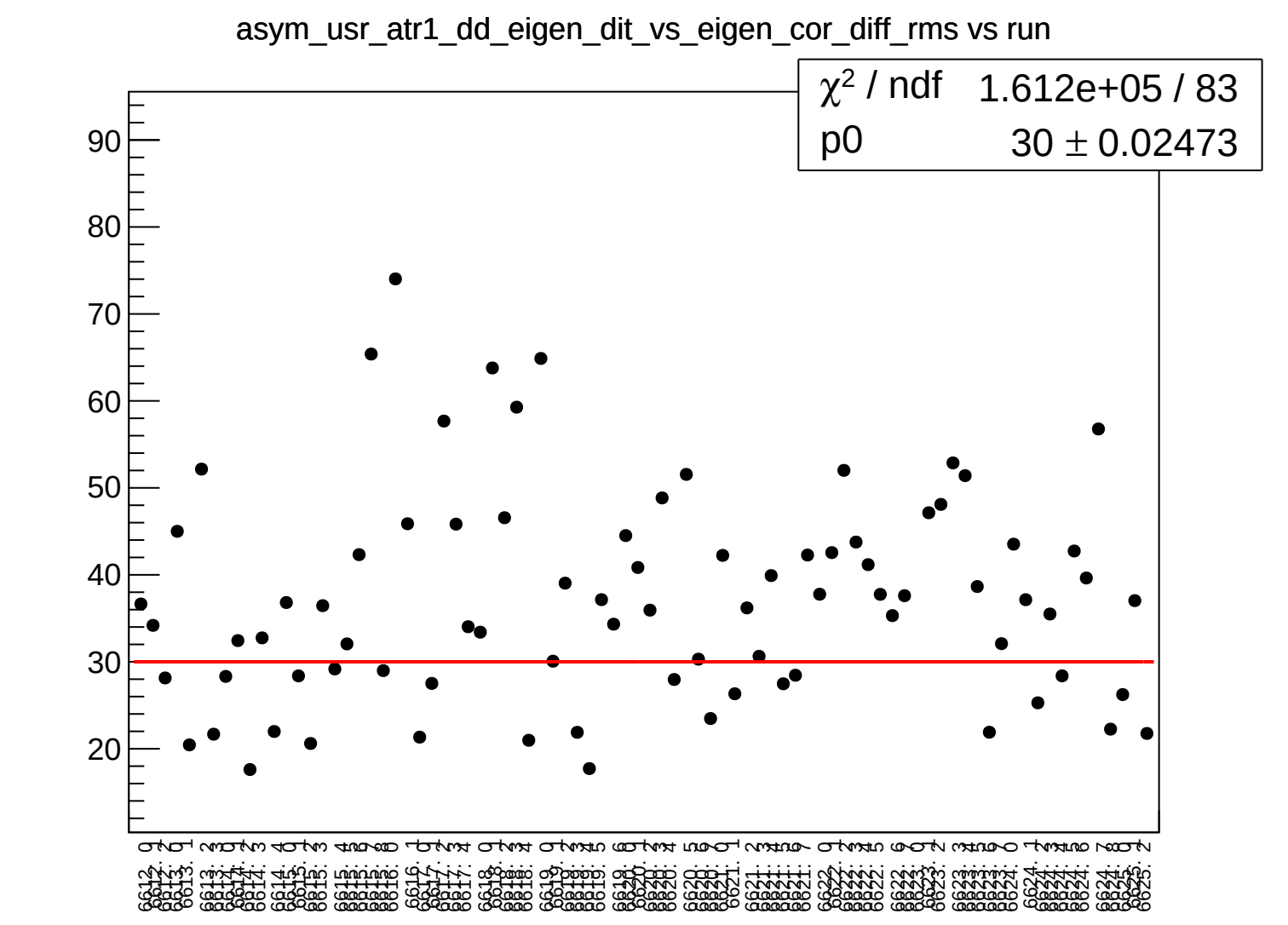

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 60.73 / 83
p0 0.01225 ± 0.03497
pull
Entries 84
Mean 37.4
Std Dev 0

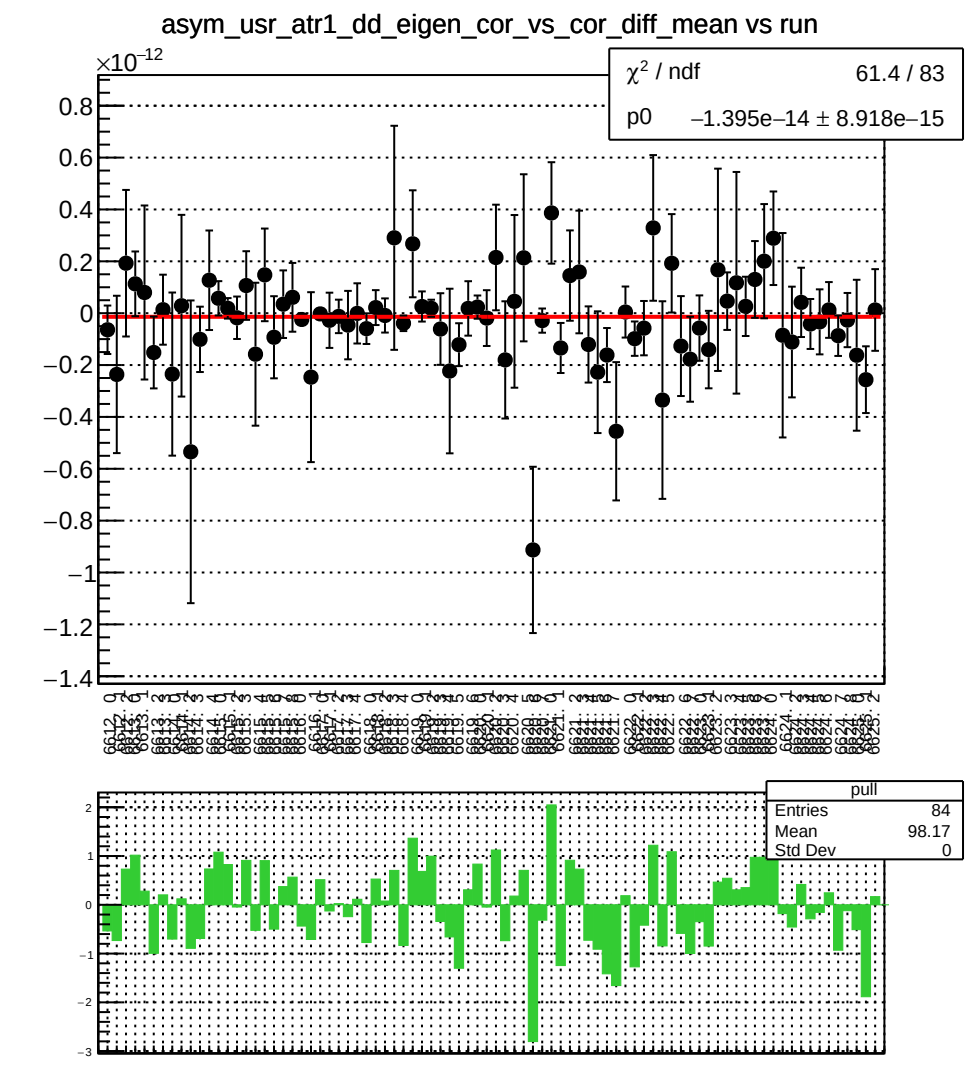

pull1D
Entries 84
Mean 0.05428
Std Dev 0.8485

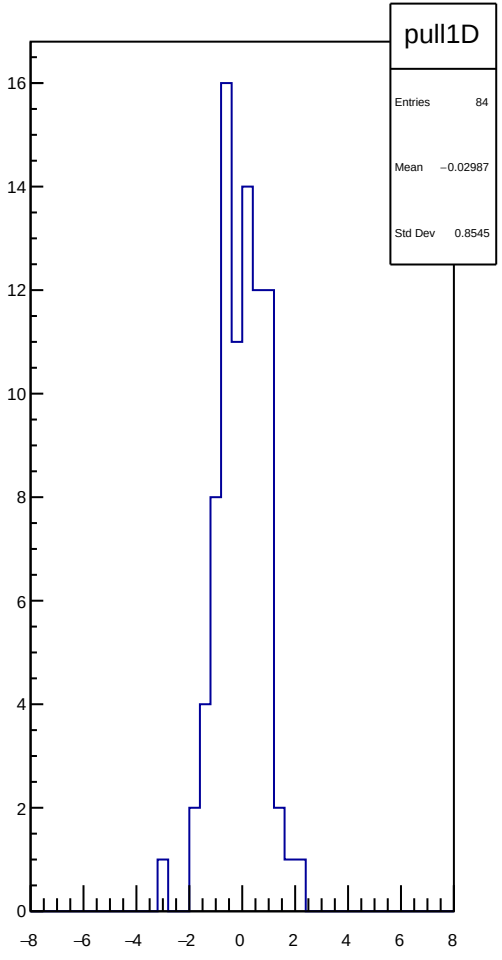

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.612e+05 / 83
p0 30 ± 0.02473
90
80
70
60
50
40
30
20

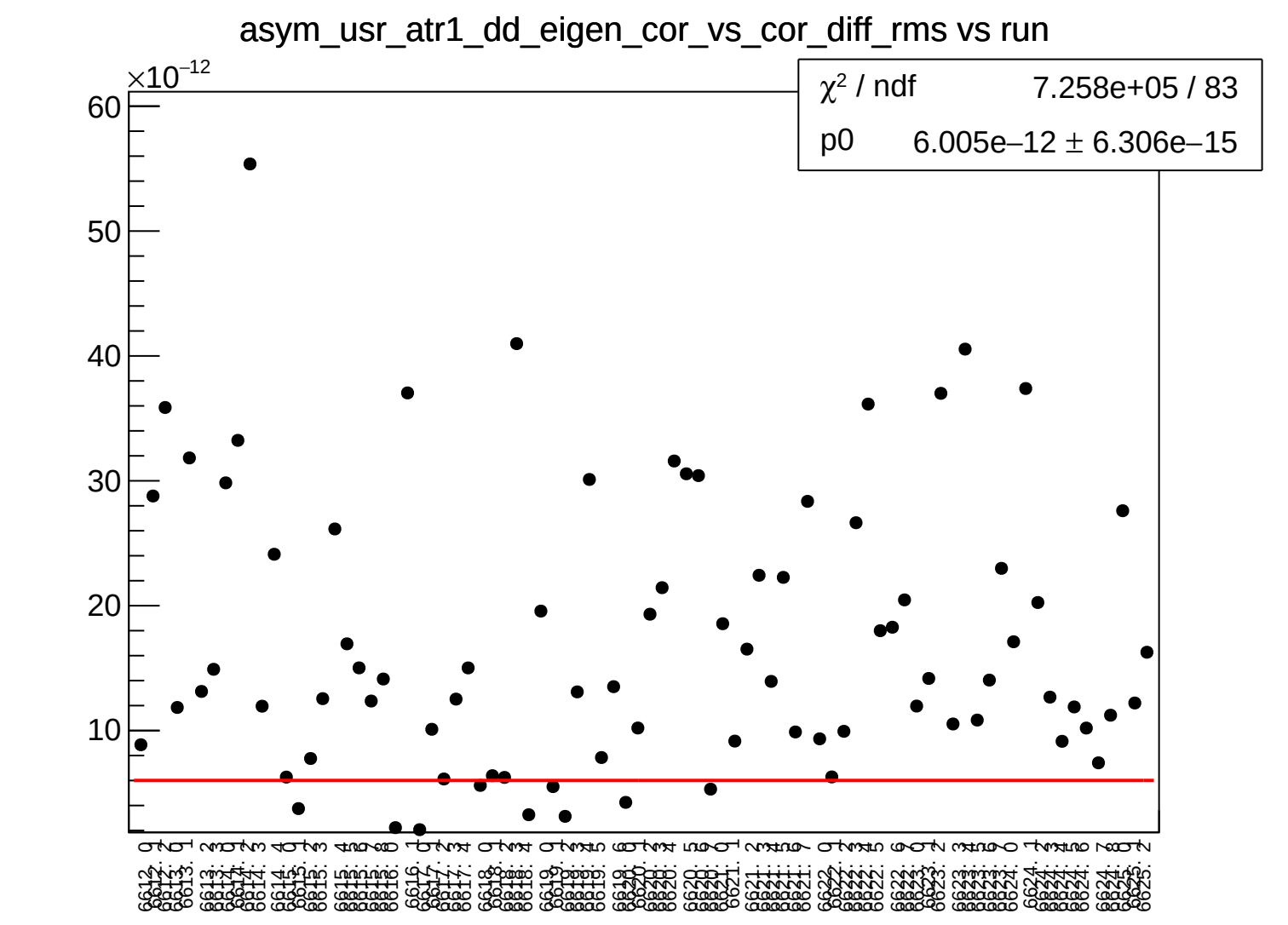

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.73 / 83
p0 0.01225 ± 0.03497
pull
Entries 84
Mean 37.4
Std Dev 0

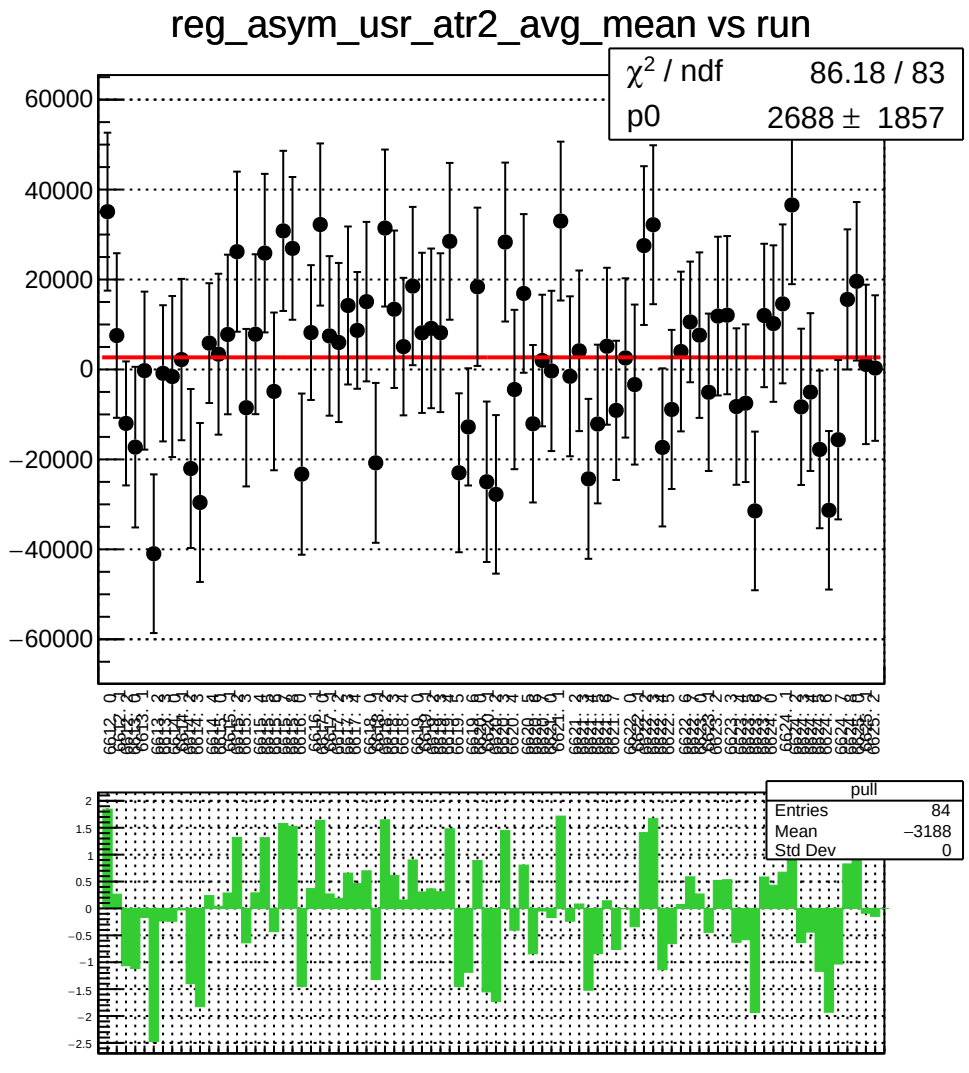

pull1D
Entries 84
Mean 0.05428
Std Dev 0.8485

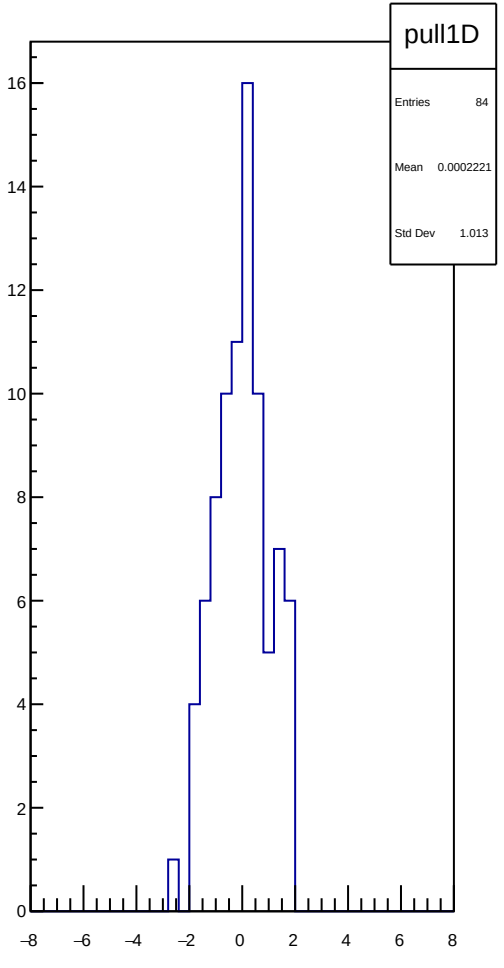

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.612e+05 / 83
p0 30 ± 0.02473
90
80
70
60
50
40
30
20

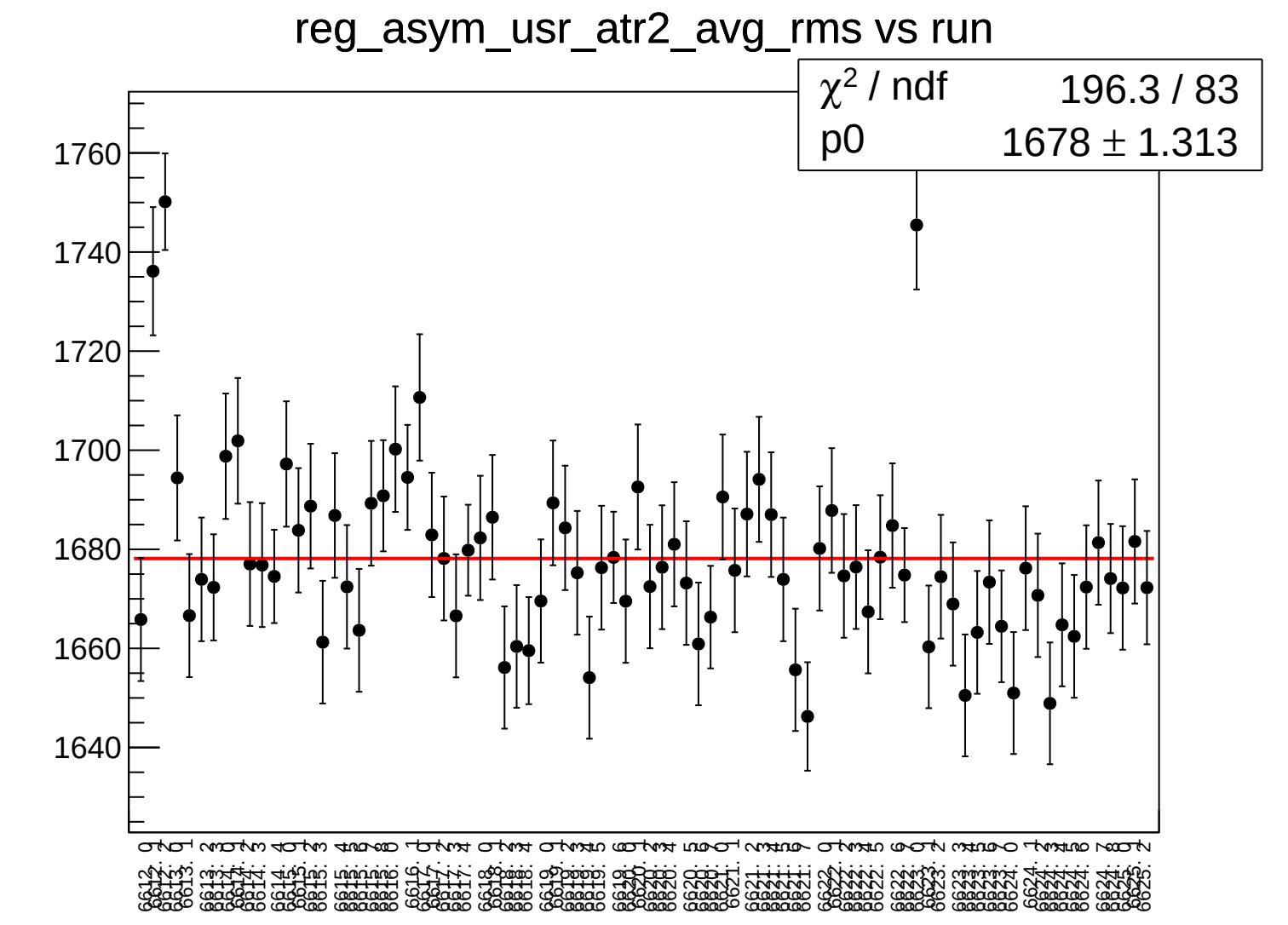

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.4 / 83
p0 −1.395e−14 ± 8.918e−15
pull
Entries 84
Mean 98.17
Std Dev 0

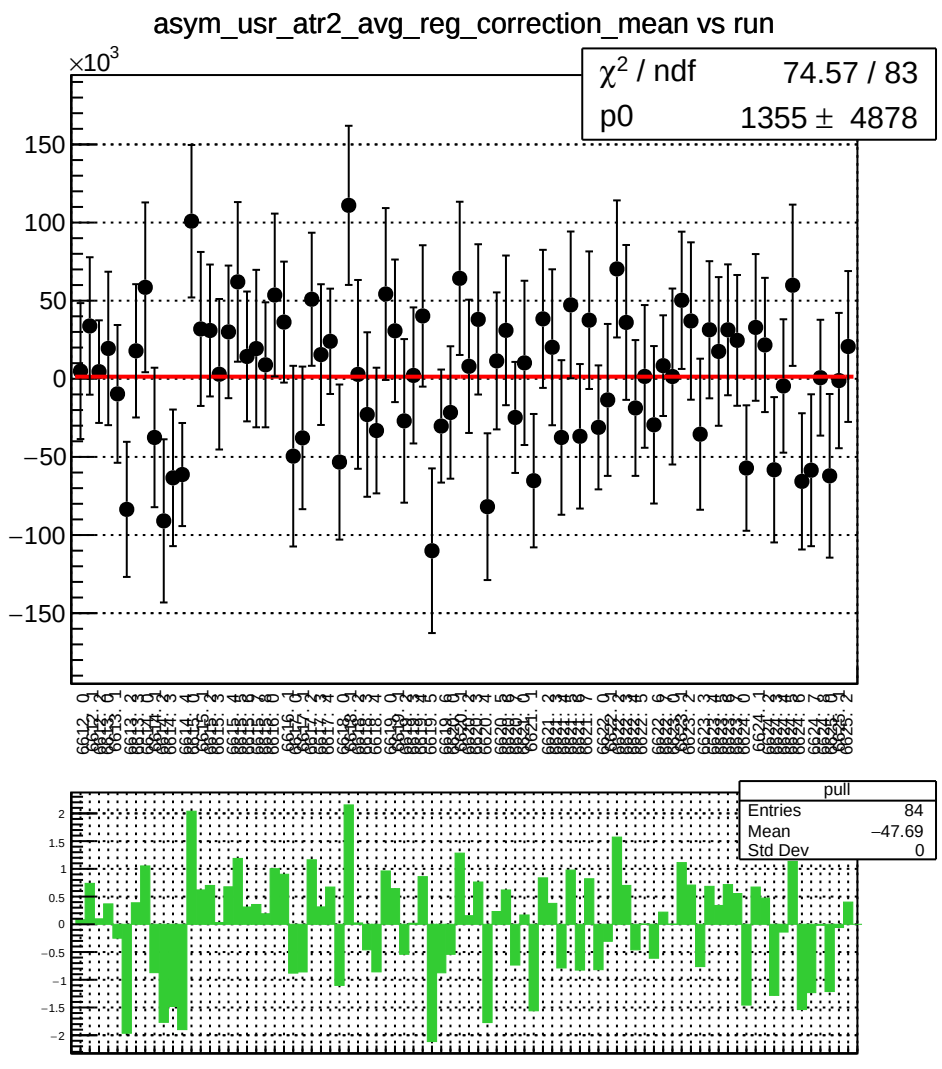

pull1D
Entries 84
Mean −0.02987
Std Dev 0.8545

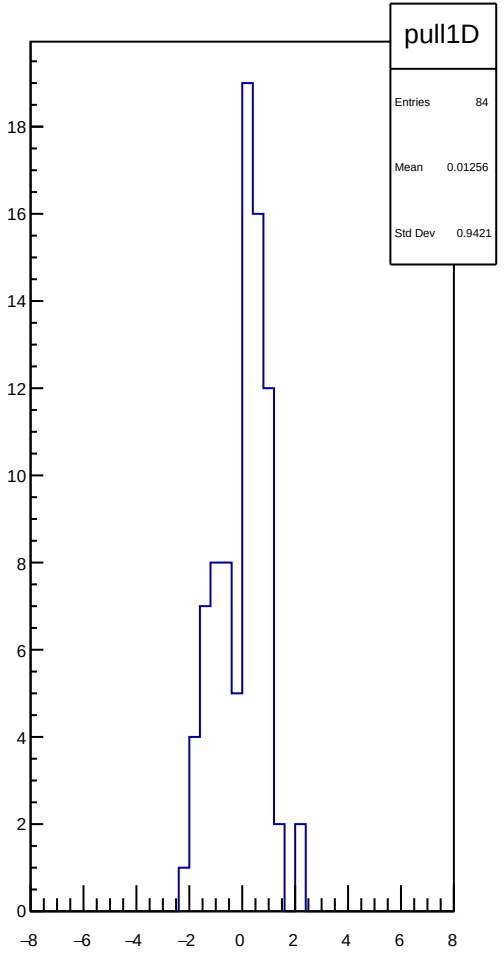

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.258e+05 / 83
p0 6.005e−12 ± 6.306e−15
60
50
40
30
20
10

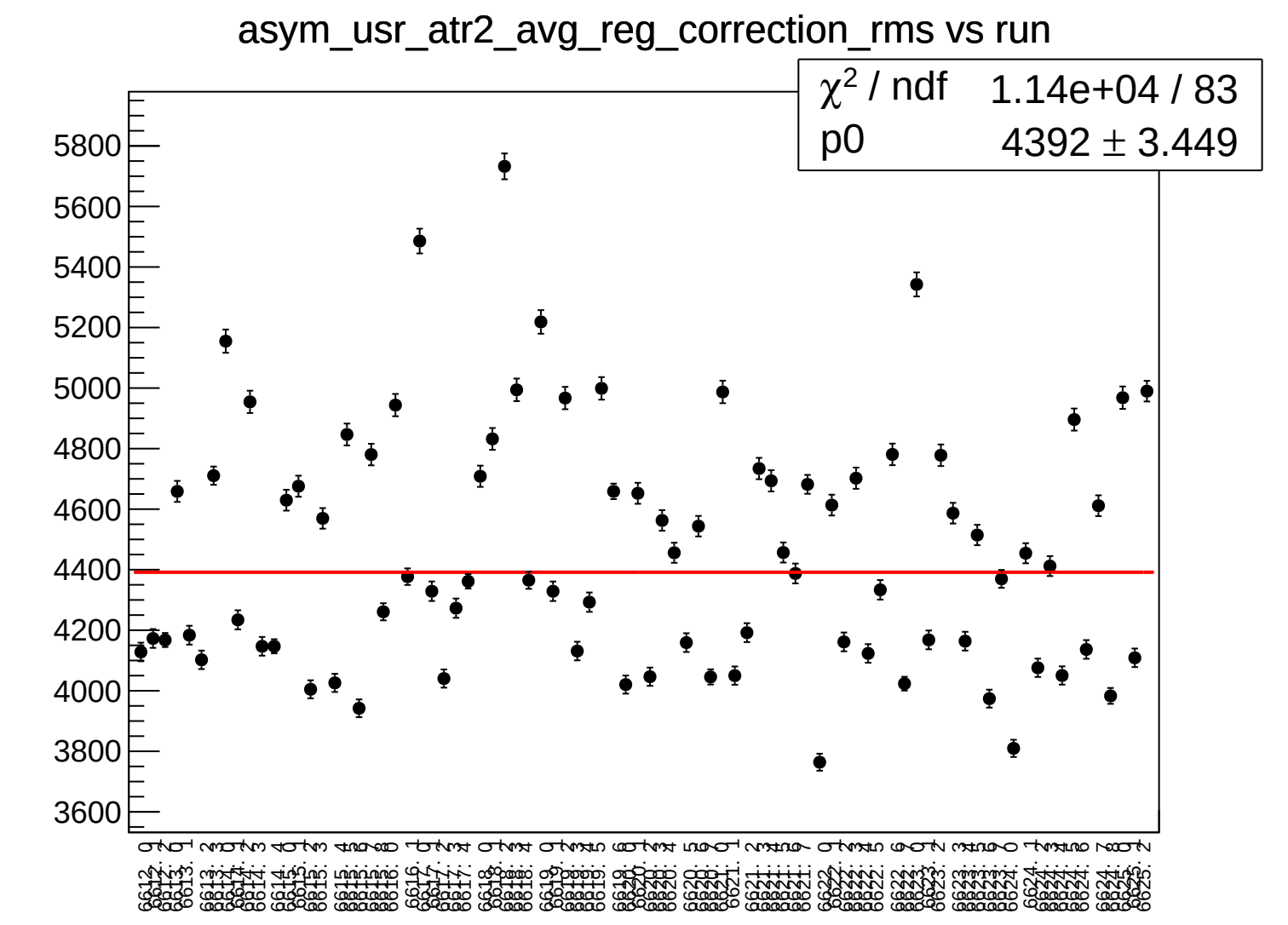

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.18 / 83
p0 2688 ± 1857
pull
Entries 84
Mean −3188
Std Dev 0

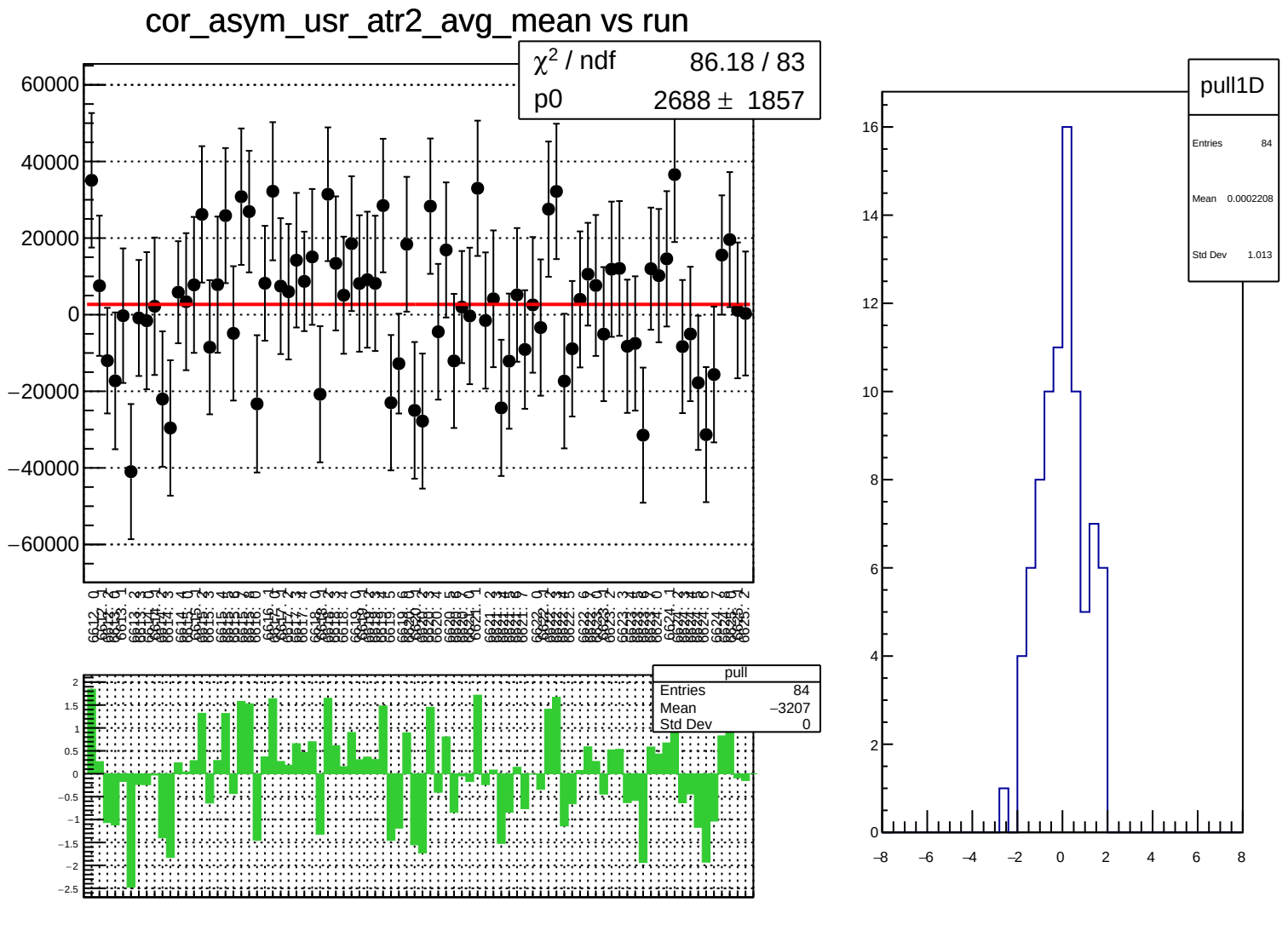

pull1D
Entries 84
Mean 0.0002221
Std Dev 1.013

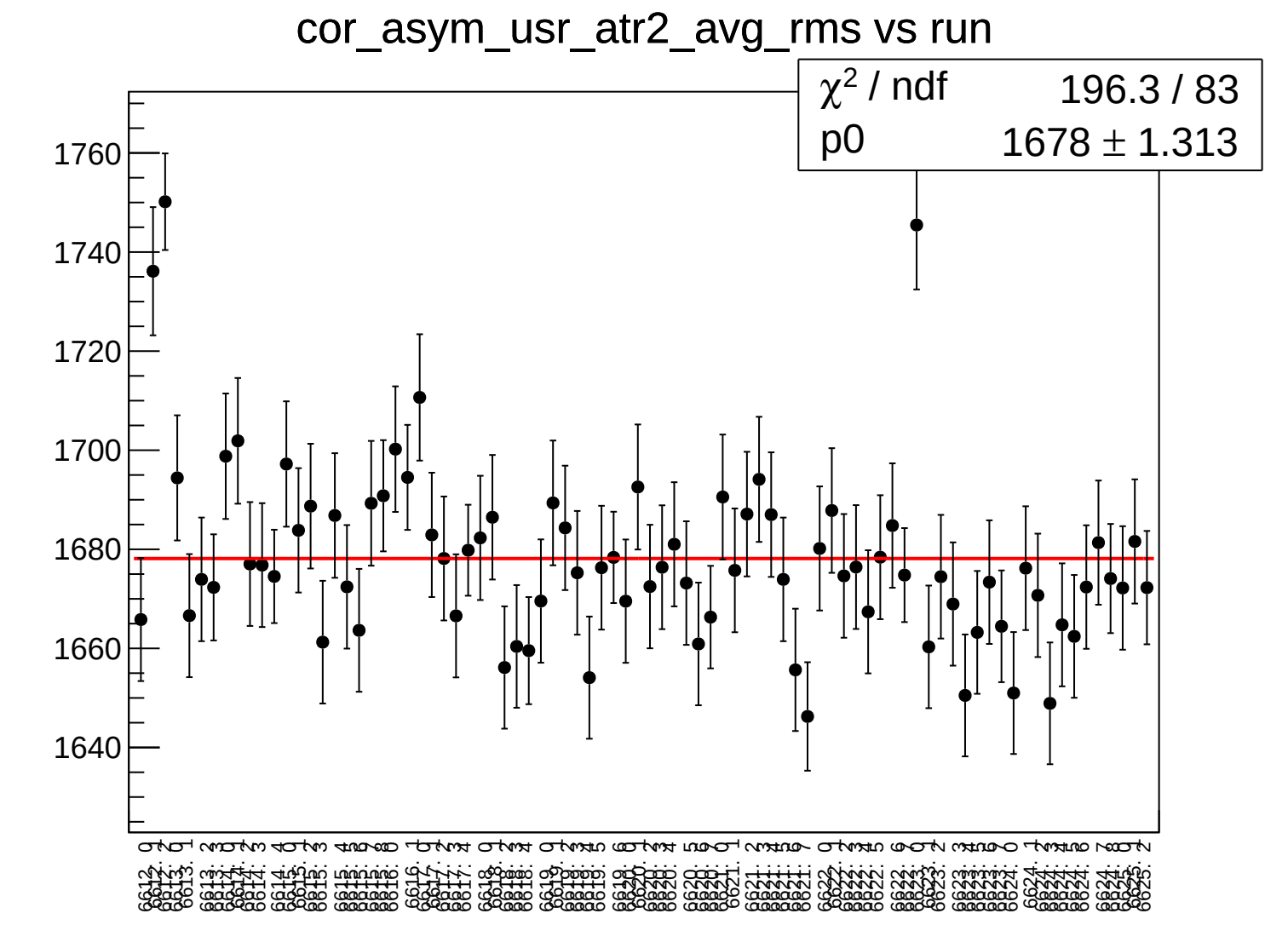

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 196.3 / 83
p0 1678 ± 1.313
1760
1740
1720
1700
1680
1660
1640

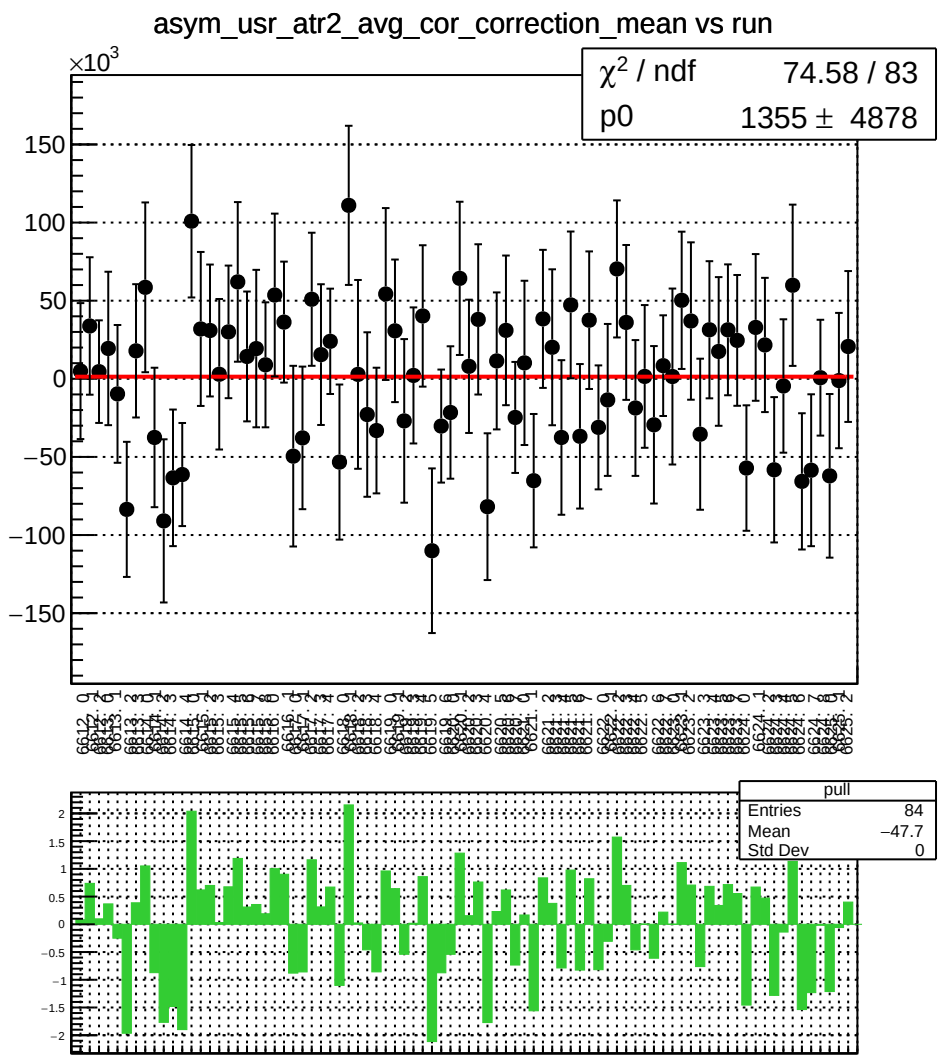

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 74.57 / 83
p0 1355 ± 4878
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −47.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

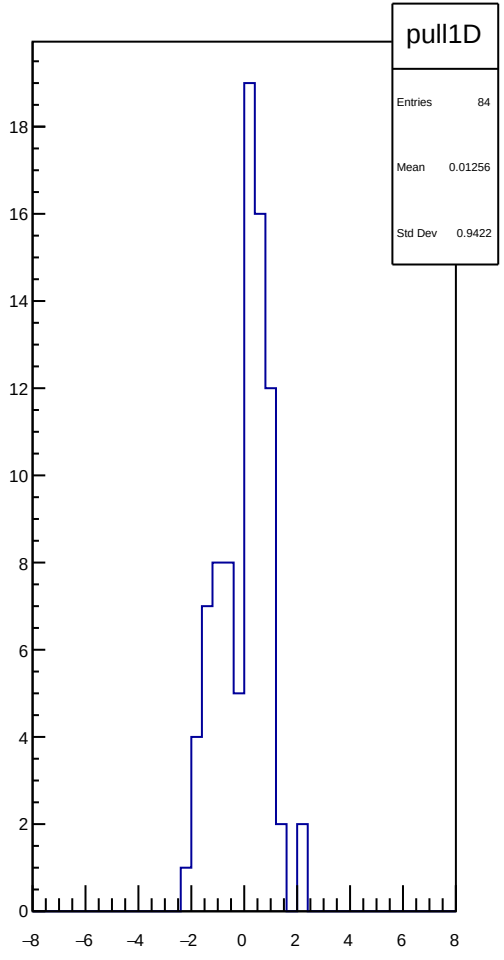

pull1D
Entries 84
Mean 0.01256
Std Dev 0.9421
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

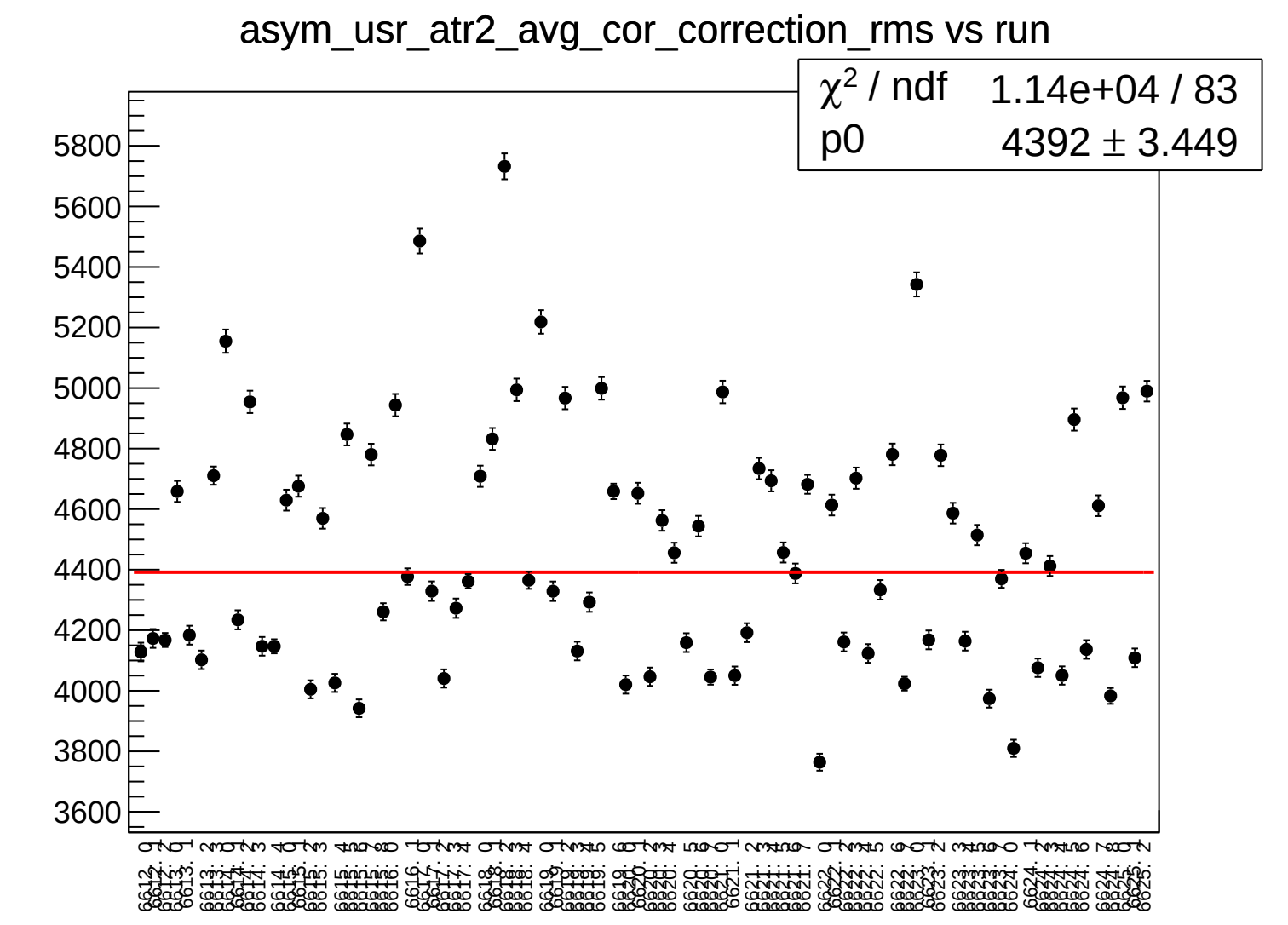

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 1.14e+04 / 83
p0 4392 ± 3.449
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

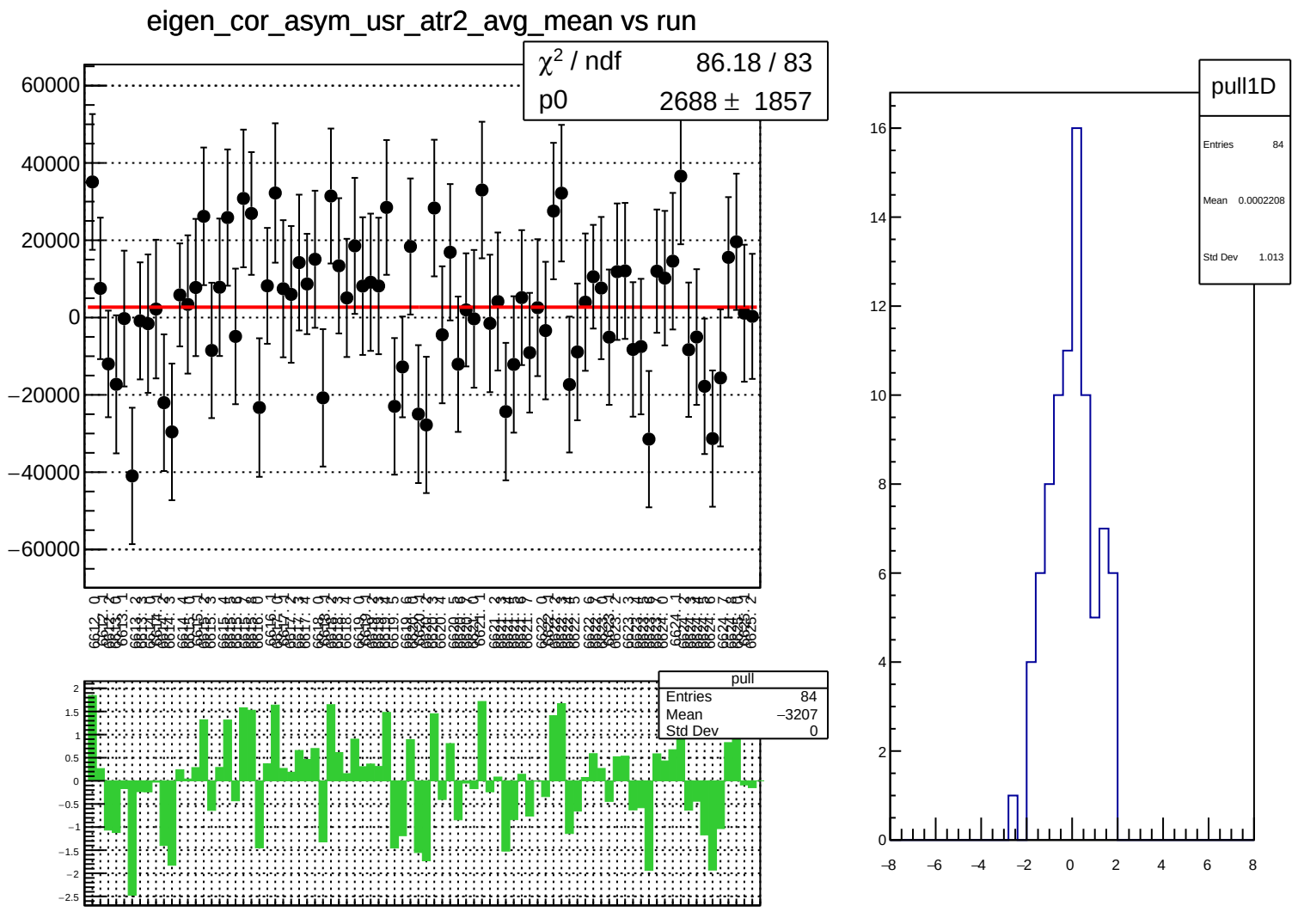

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.18 / 83
p0 2688 ± 1857
pull
Entries 84
Mean −3207
Std Dev 0
pull1D
Entries 84
Mean 0.0002208
Std Dev 1.013

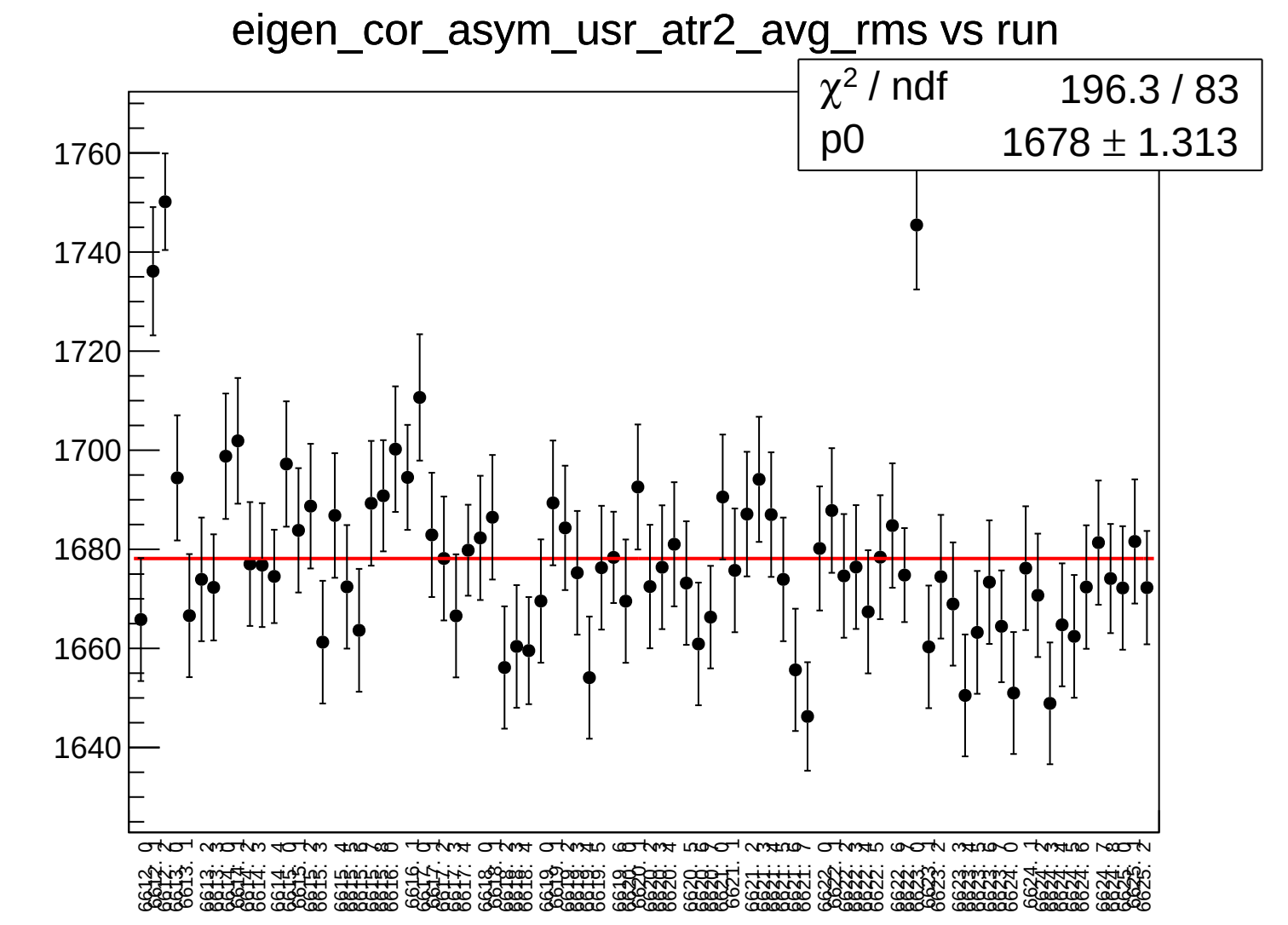

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 196.3 / 83
p0 1678 ± 1.313
1760
1740
1720
1700
1680
1660
1640

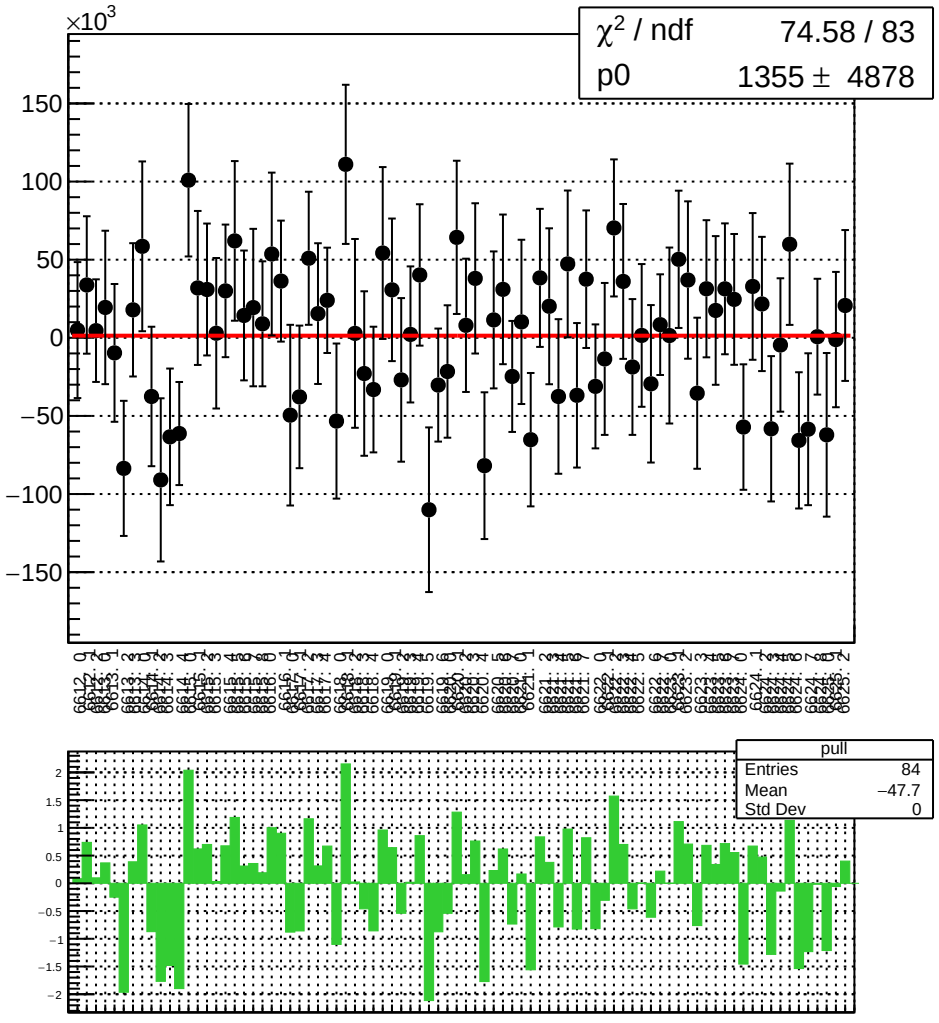

asym_usr_atr2_avg_cor_correction_mean vs run
χ² / ndf 74.58 / 83
p0 1355 ± 4878
×10³
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −47.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

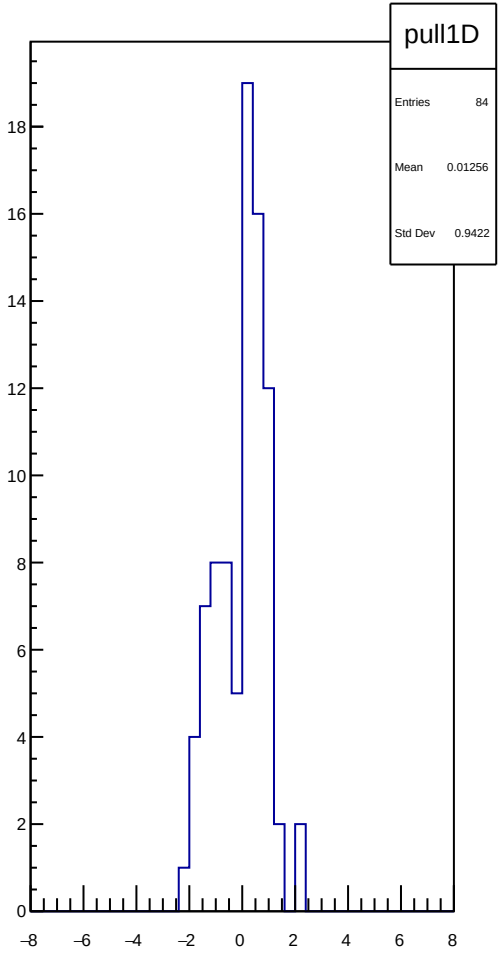

pull1D
Entries 84
Mean 0.01256
Std Dev 0.9422
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

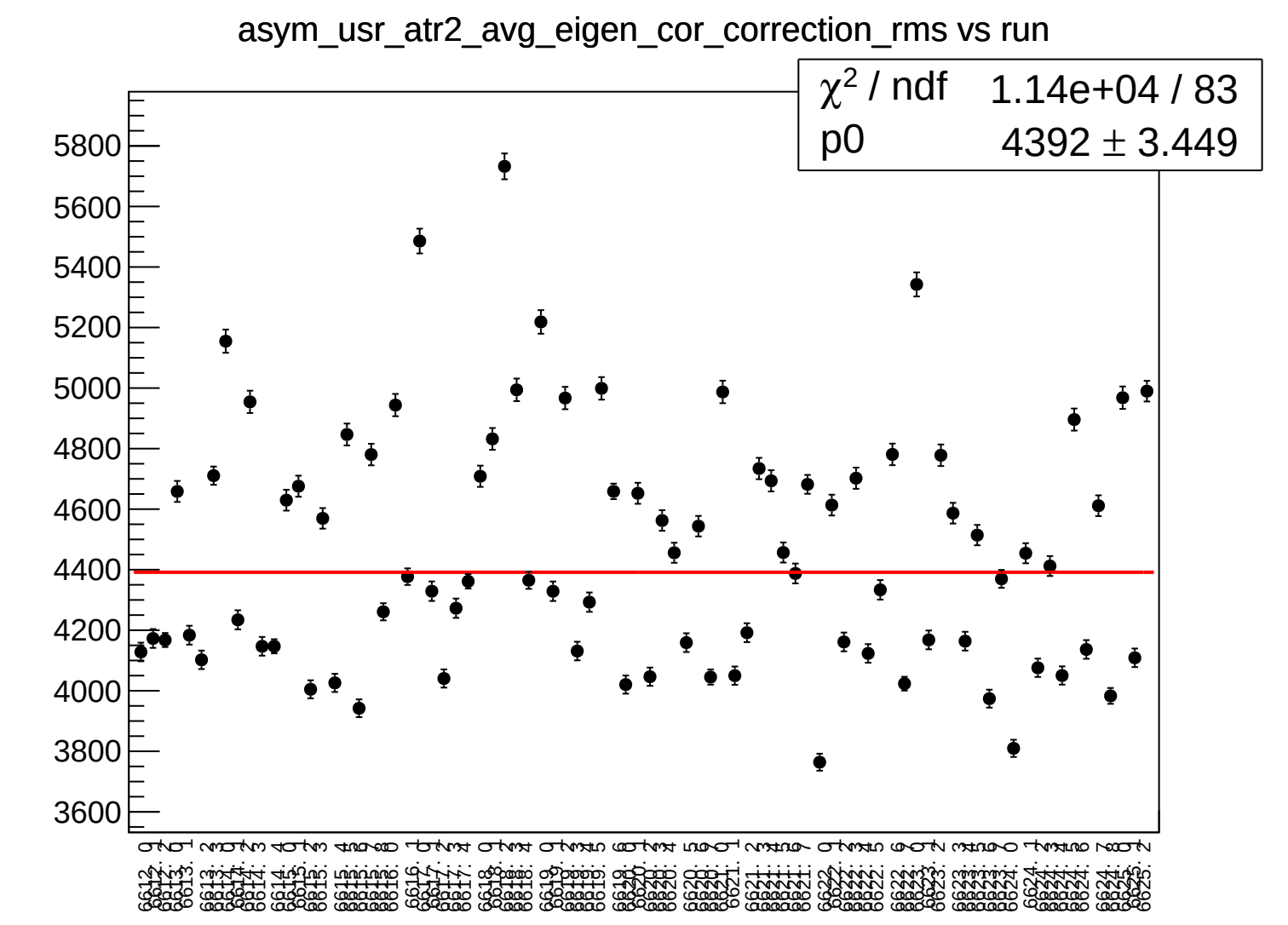

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 1.14e+04 / 83
p0 4392 ± 3.449
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

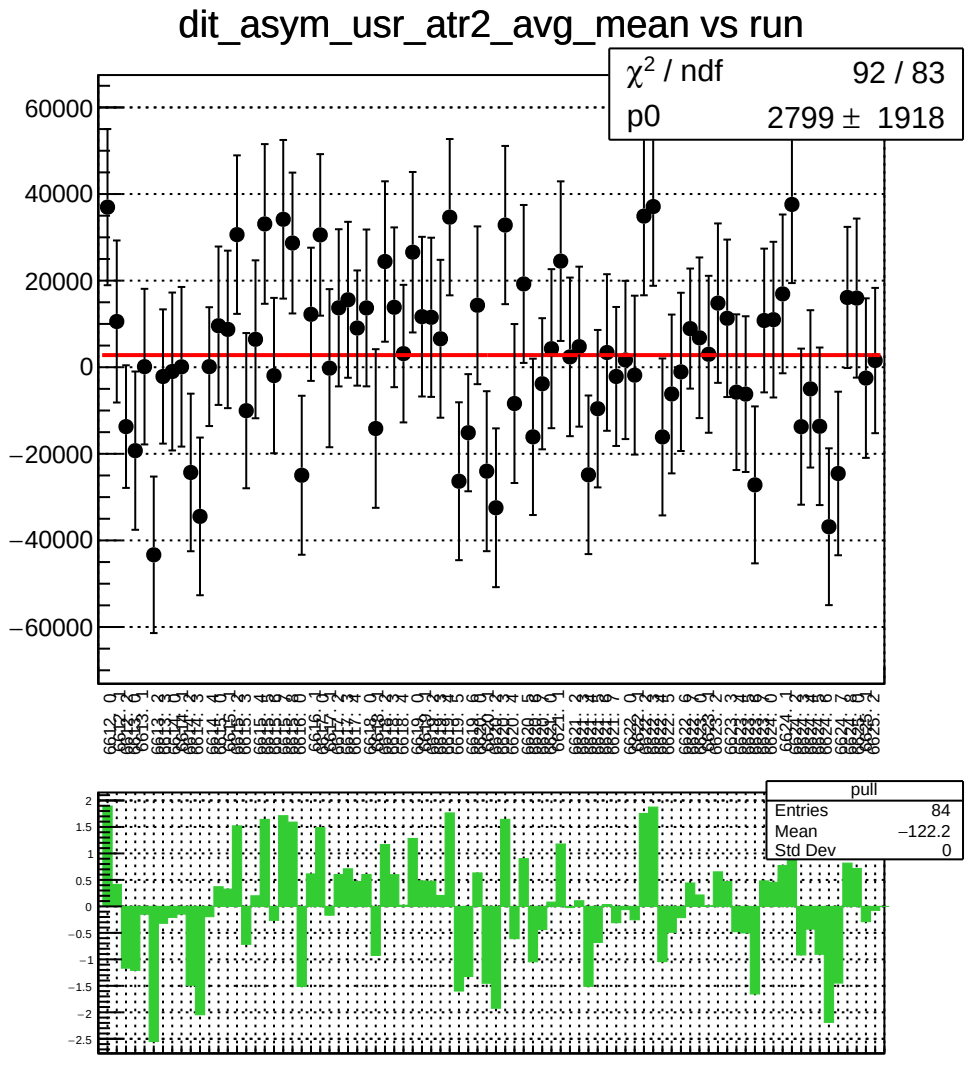

eigen_cor_asym_usr_atr2_avg_mean vs run
χ^2 / ndf 86.18 / 83
p0 2688 ± 1857
pull
Entries 84
Mean −3207
Std Dev 0
pull1D
Entries 84
Mean 0.0002208
Std Dev 1.013

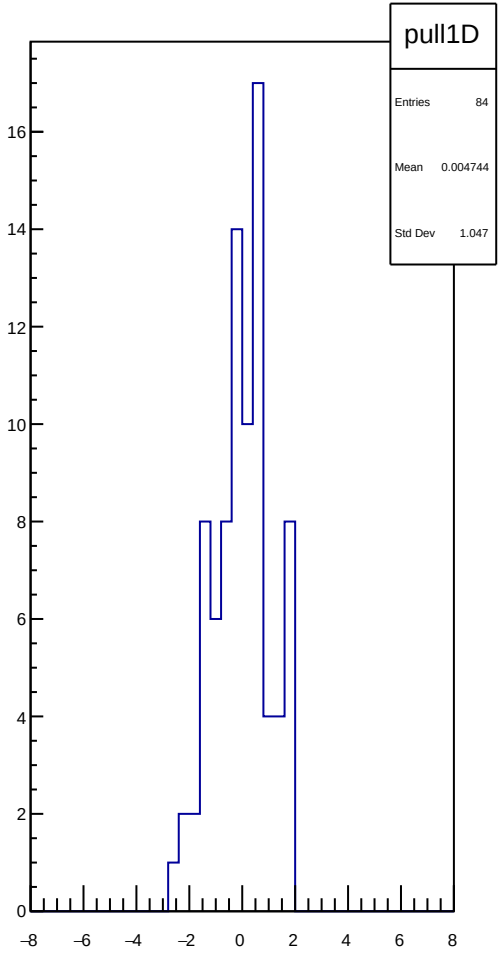

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 196.3 / 83
p0 1678 ± 1.313
1760
1740
1720
1700
1680
1660
1640

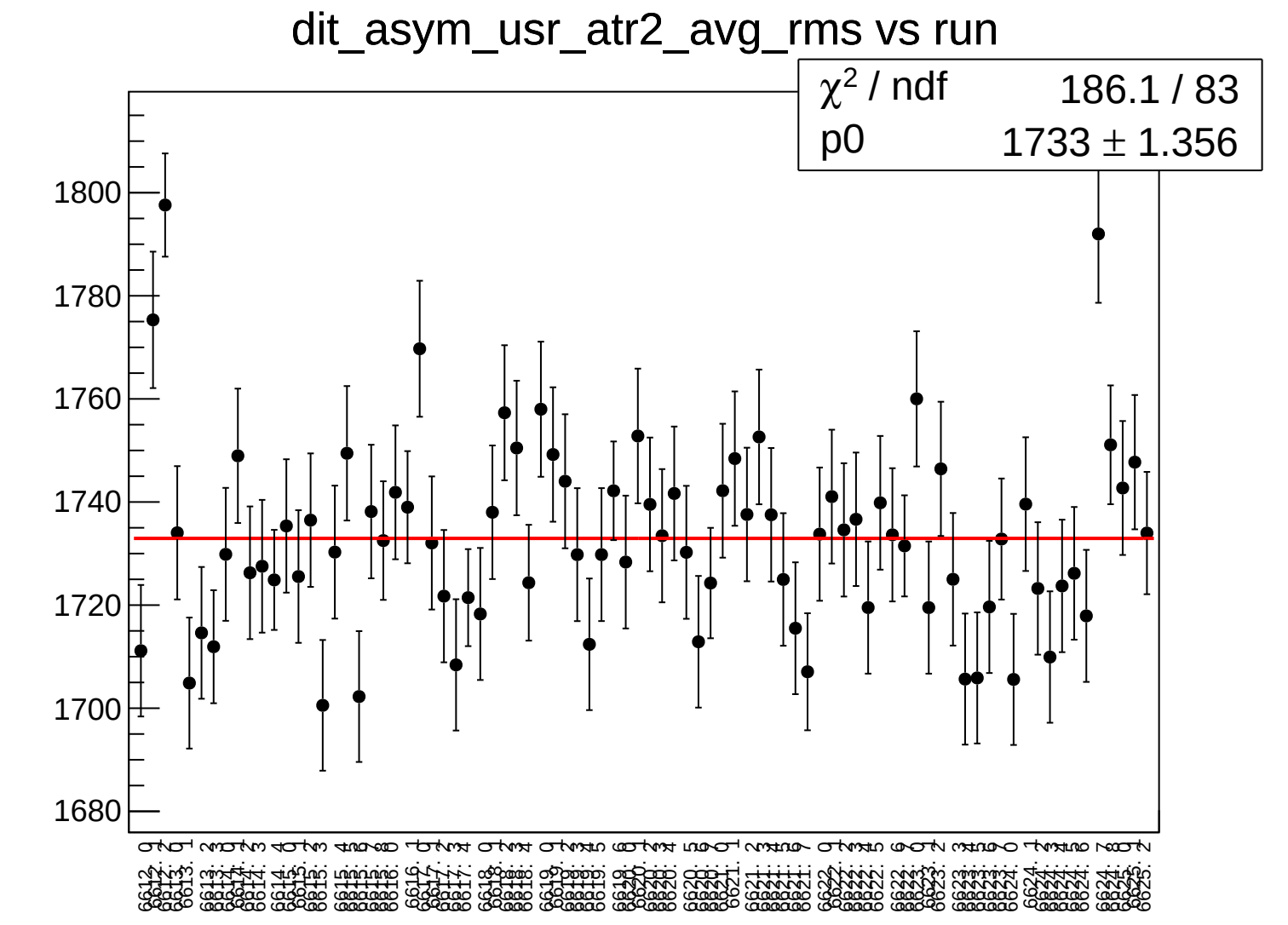

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.58 / 83
p0 1355 ± 4878
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −47.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

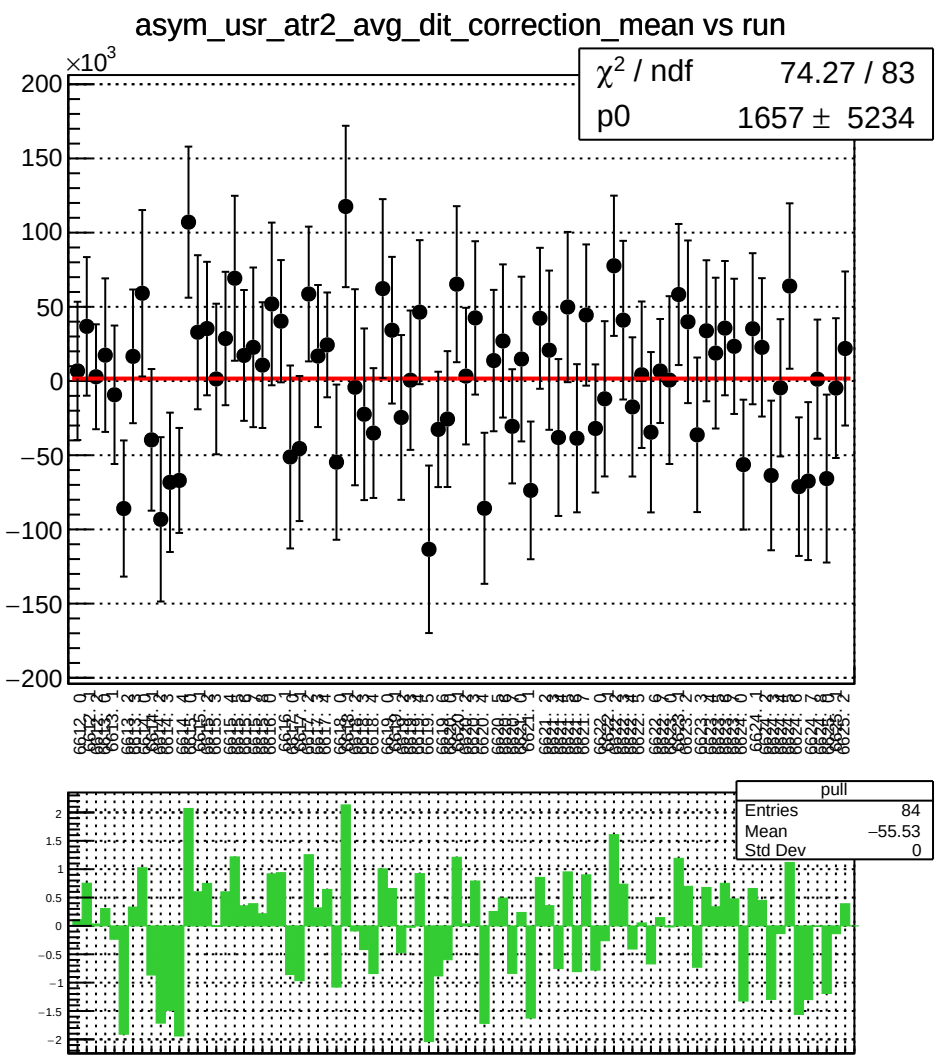

pull1D
Entries 84
Mean 0.01256
Std Dev 0.9422
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

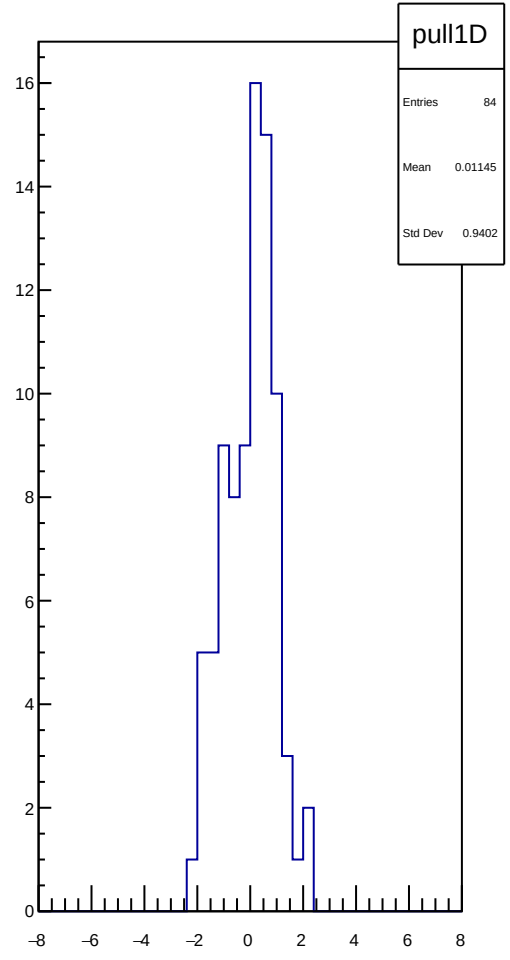

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.14e+04 / 83
p0 4392 ± 3.449
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

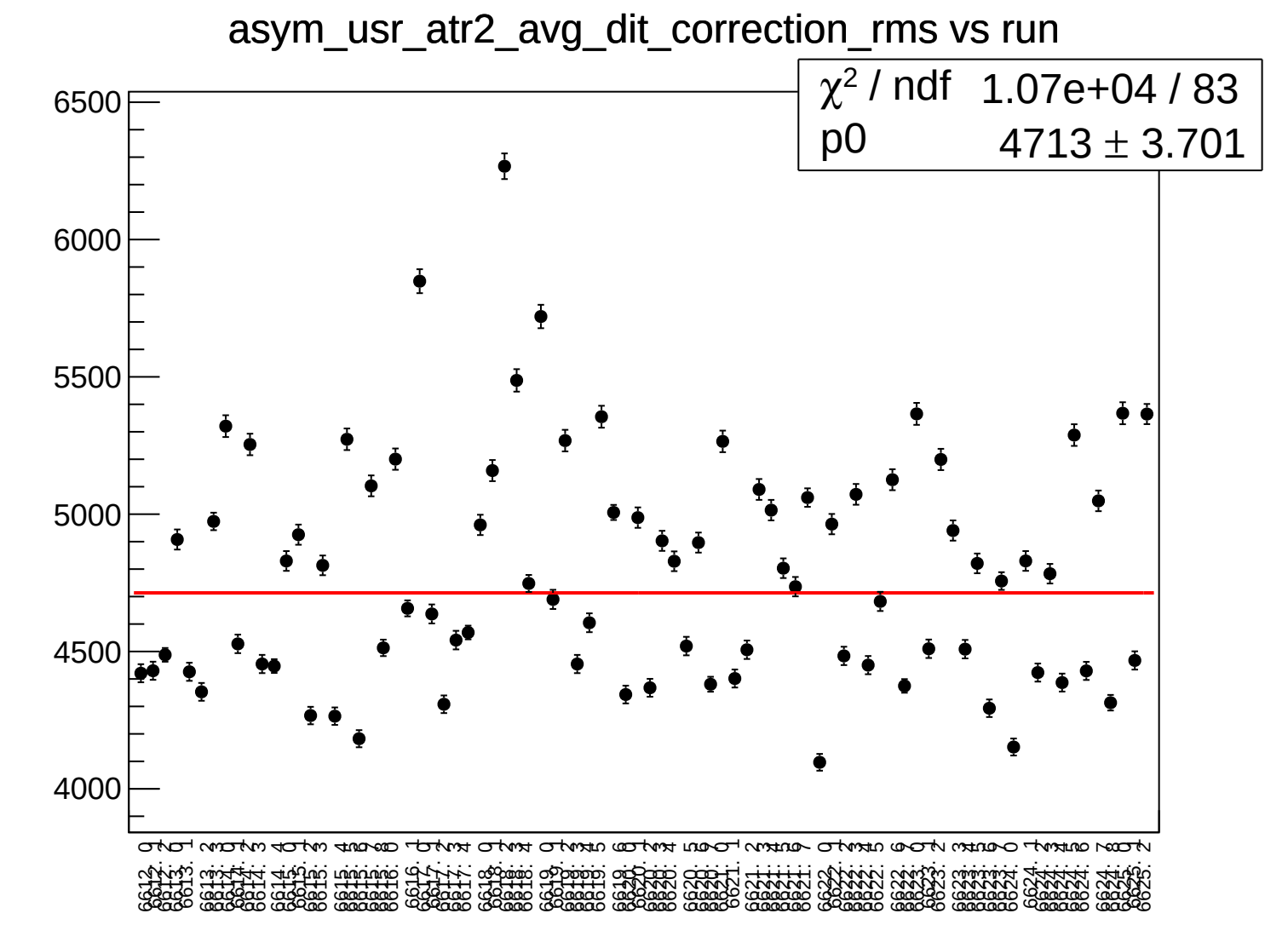

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 92 / 83
p0 2799 ± 1918
pull
Entries 84
Mean −122.2
Std Dev 0

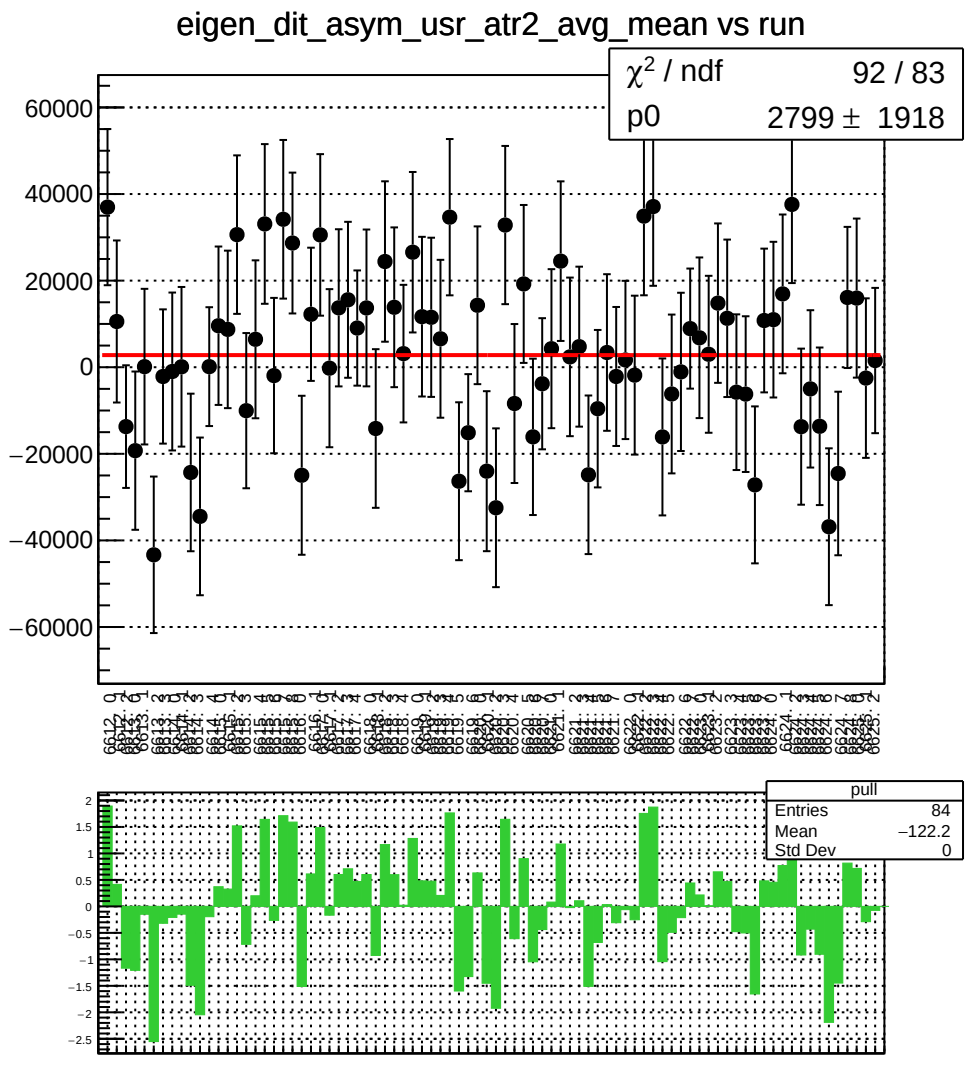

pull1D
Entries 84
Mean 0.004744
Std Dev 1.047

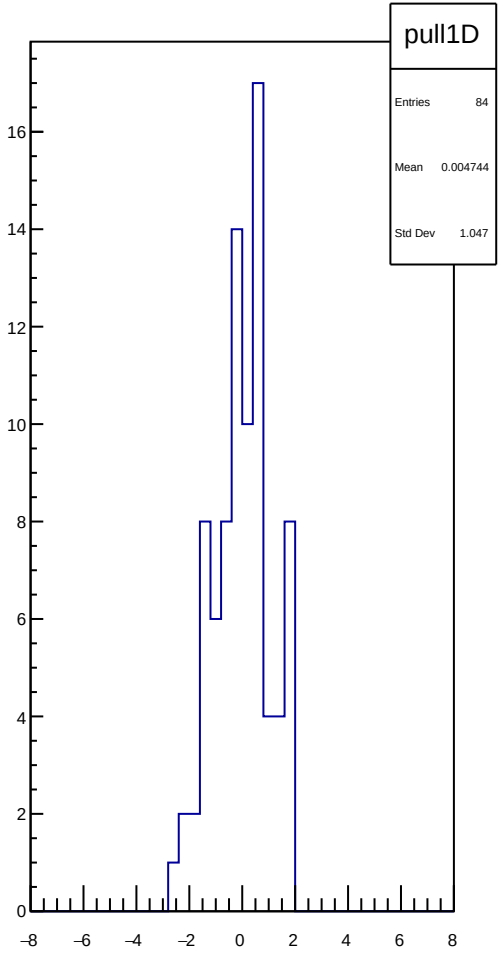

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 186.1 / 83
p0 1733 ± 1.356
1800
1780
1760
1740
1720
1700
1680

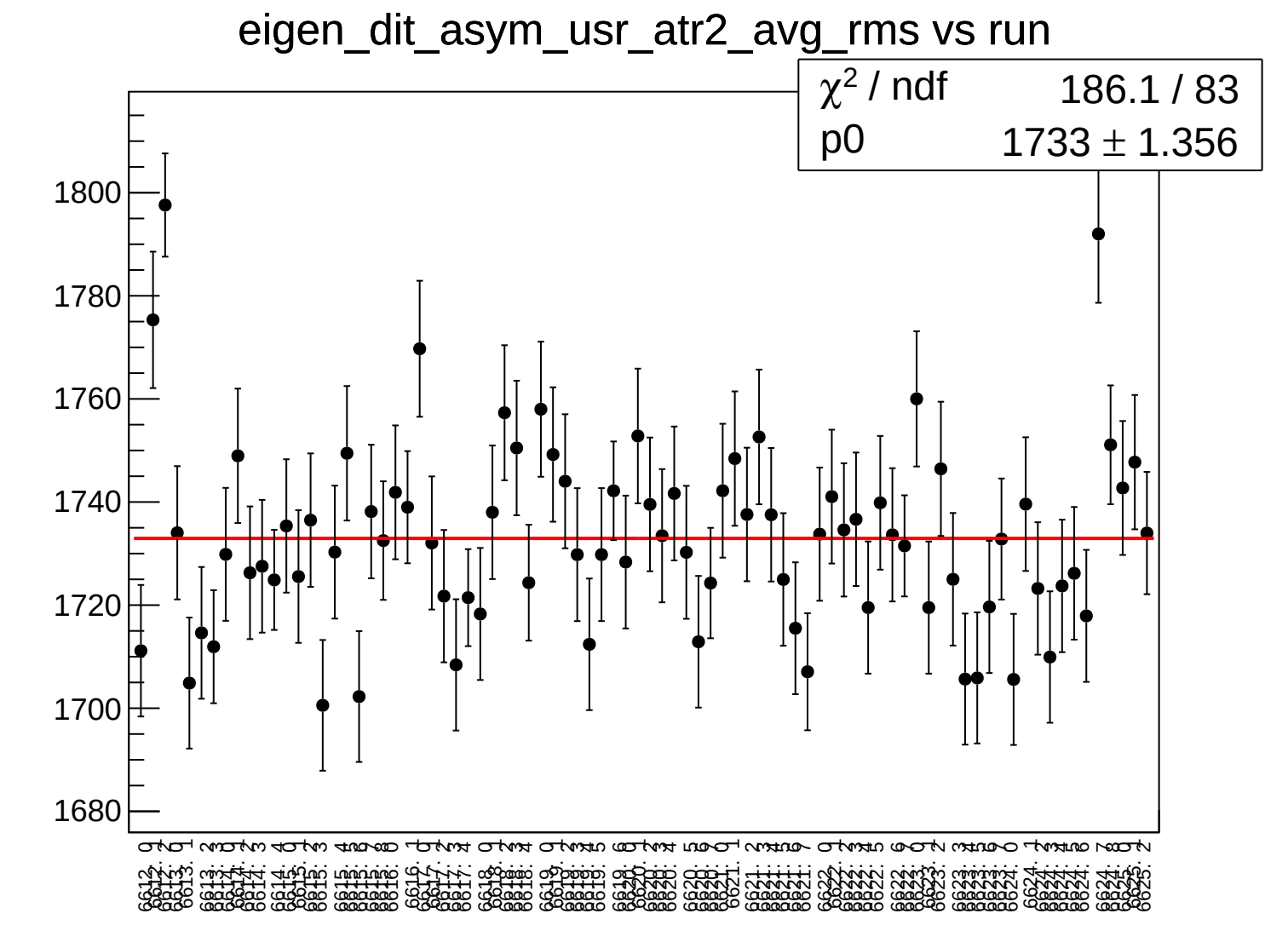

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 74.27 / 83
p0 1657 ± 5234
pull
Entries 84
Mean −55.53
Std Dev 0

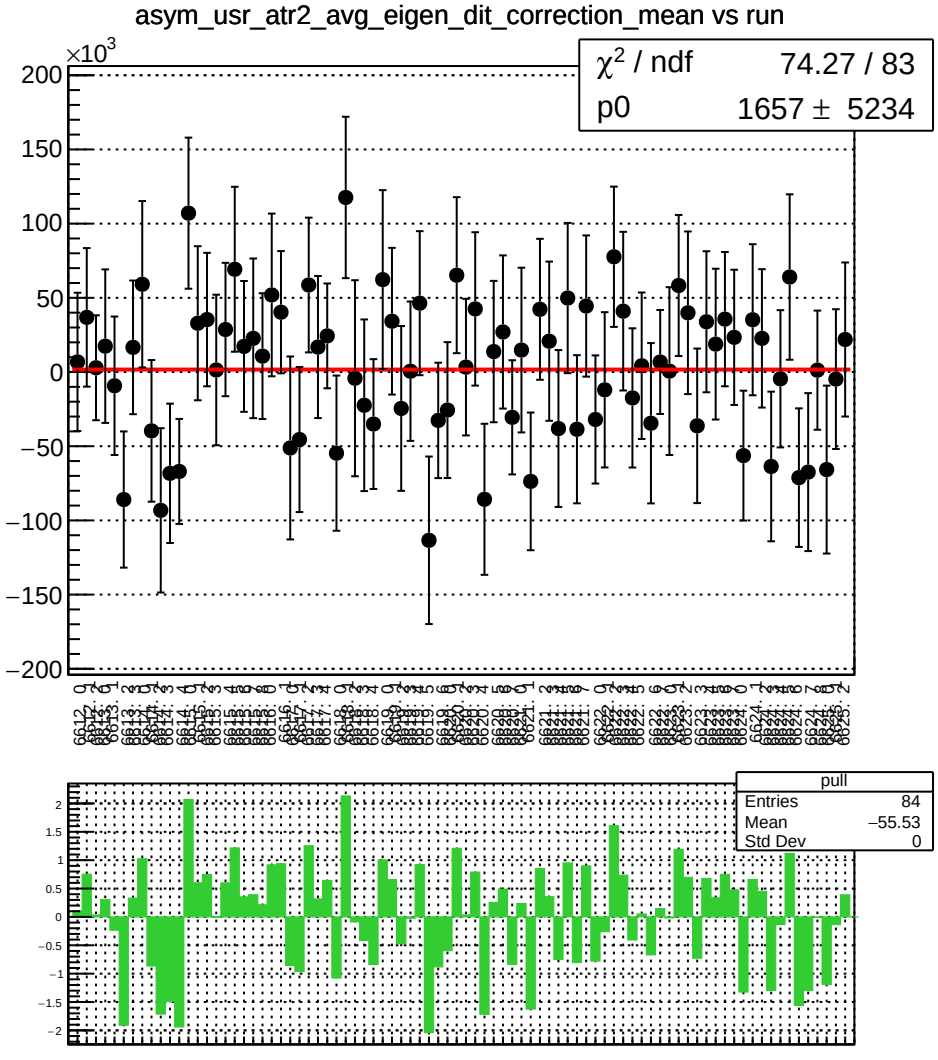

pull1D
Entries 84
Mean 0.01145
Std Dev 0.9402

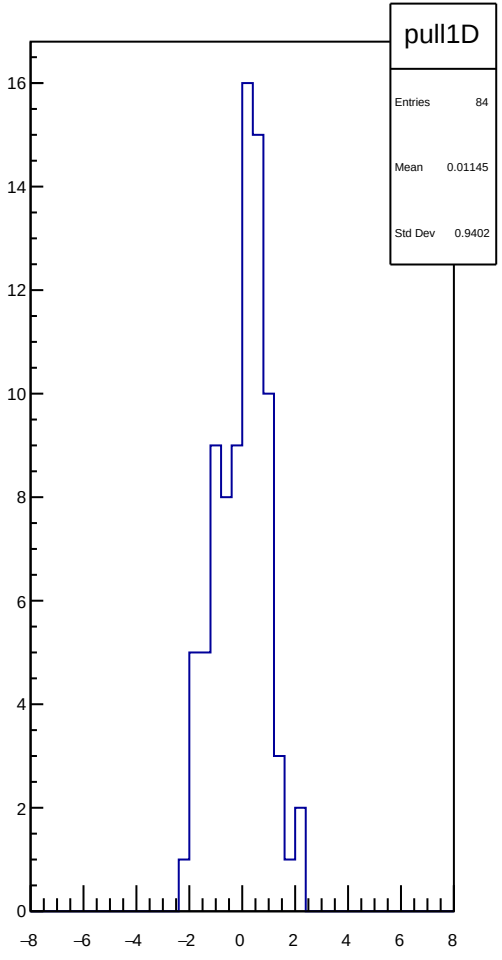

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 1.07e+04 / 83
p0 4713 ± 3.701
6500
6000
5500
5000
4500
4000

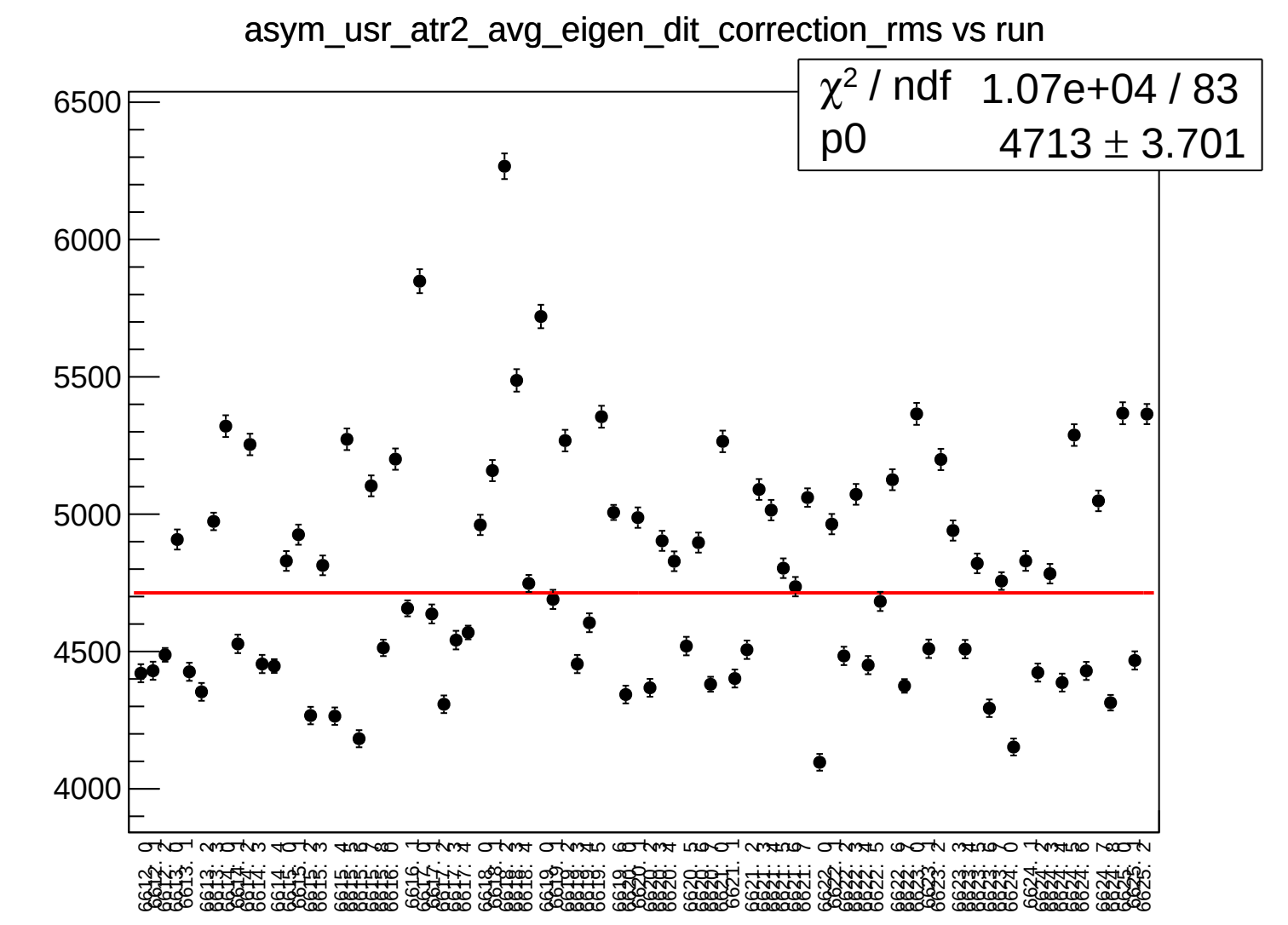

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 92 / 83
p0 2799 ± 1918
pull
Entries 84
Mean −122.2
Std Dev 0

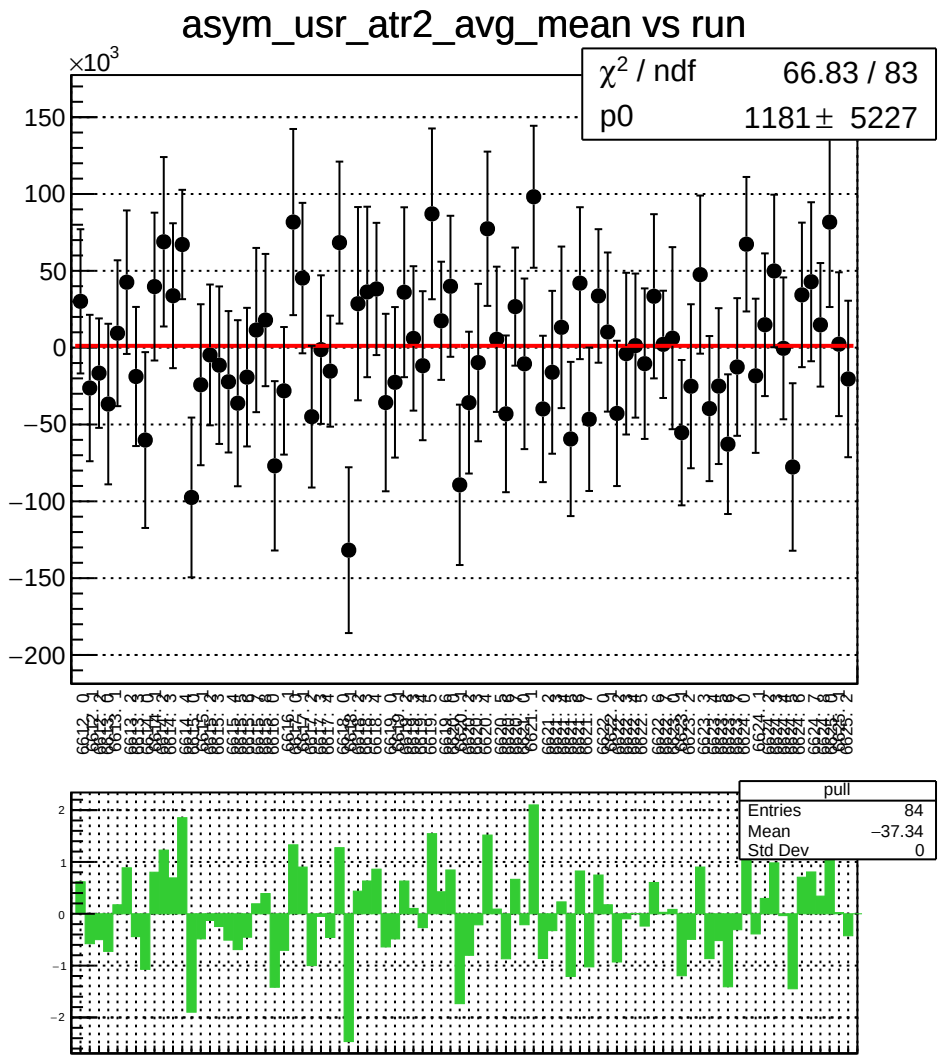

pull1D
Entries 84
Mean 0.004744
Std Dev 1.047

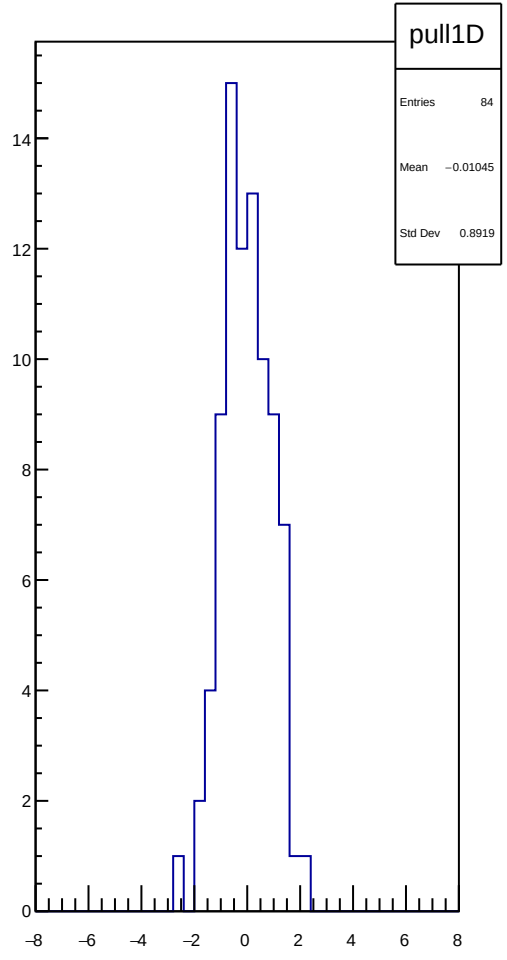

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 186.1 / 83
p0 1733 ± 1.356
1800
1780
1760
1740
1720
1700
1680

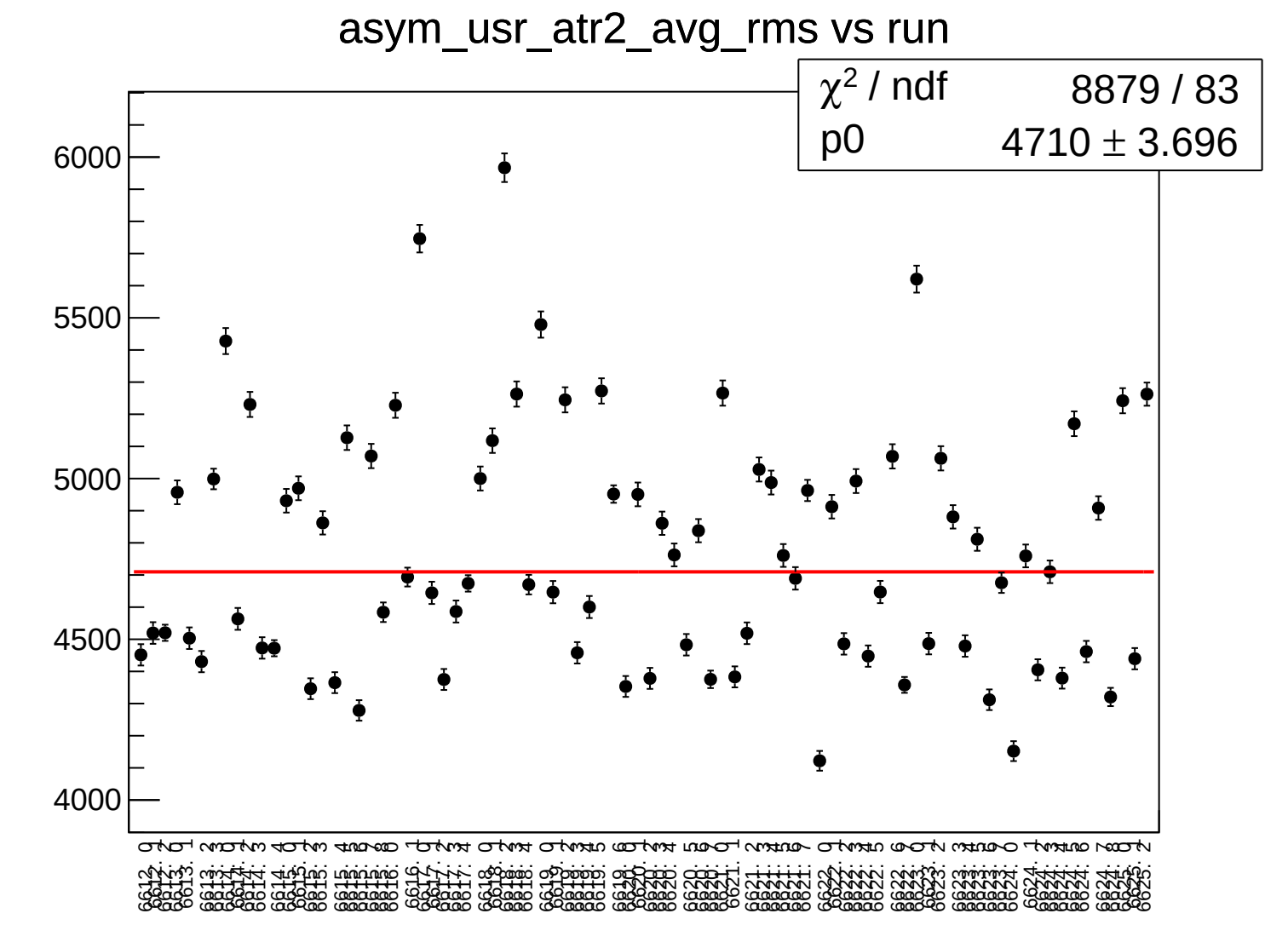

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 74.27 / 83
p0 1657 ± 5234
pull
Entries 84
Mean −55.53
Std Dev 0

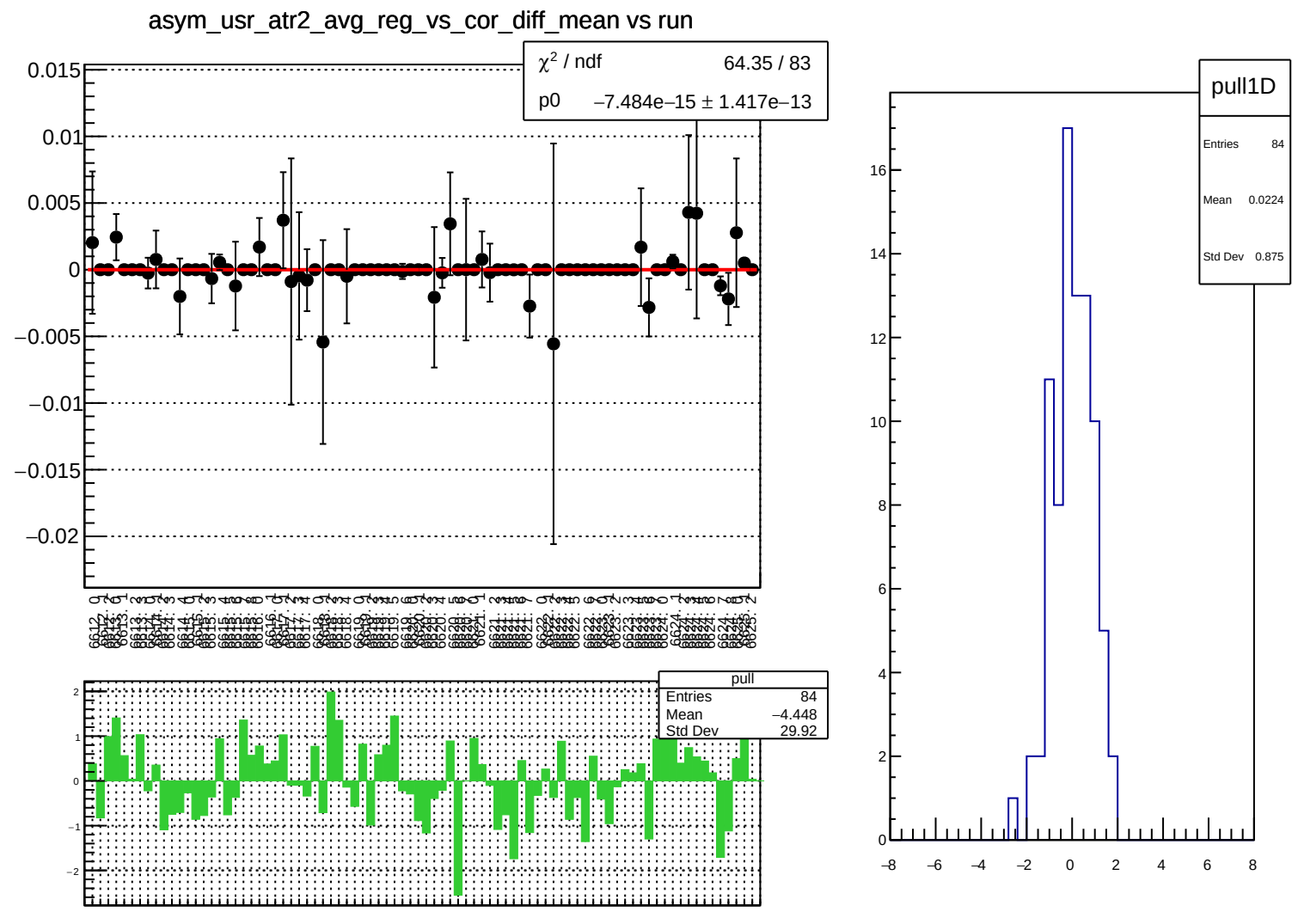

pull1D
Entries 84
Mean 0.01145
Std Dev 0.9402

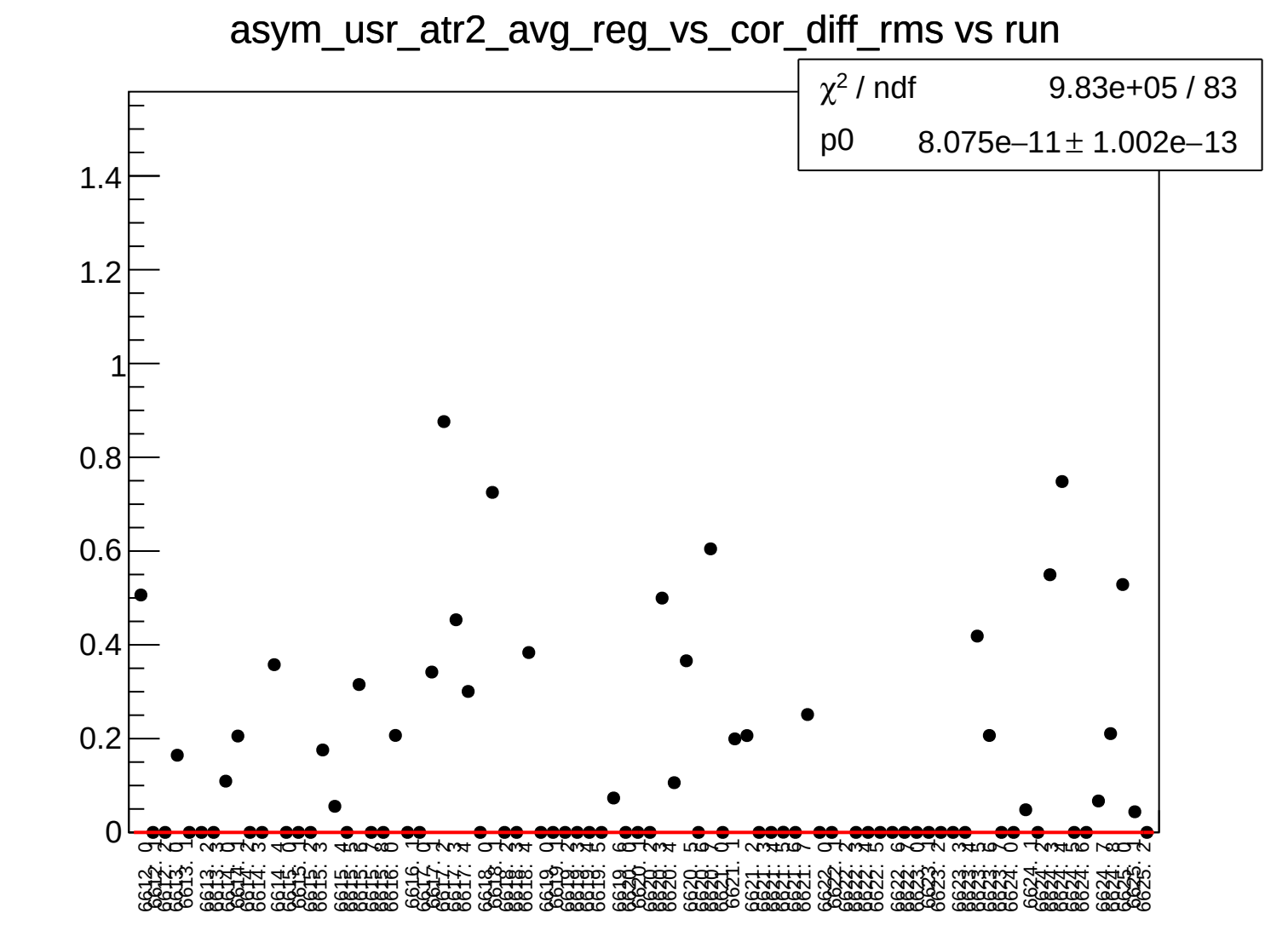

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.07e+04 / 83
p0 4713 ± 3.701
6500
6000
5500
5000
4500
4000

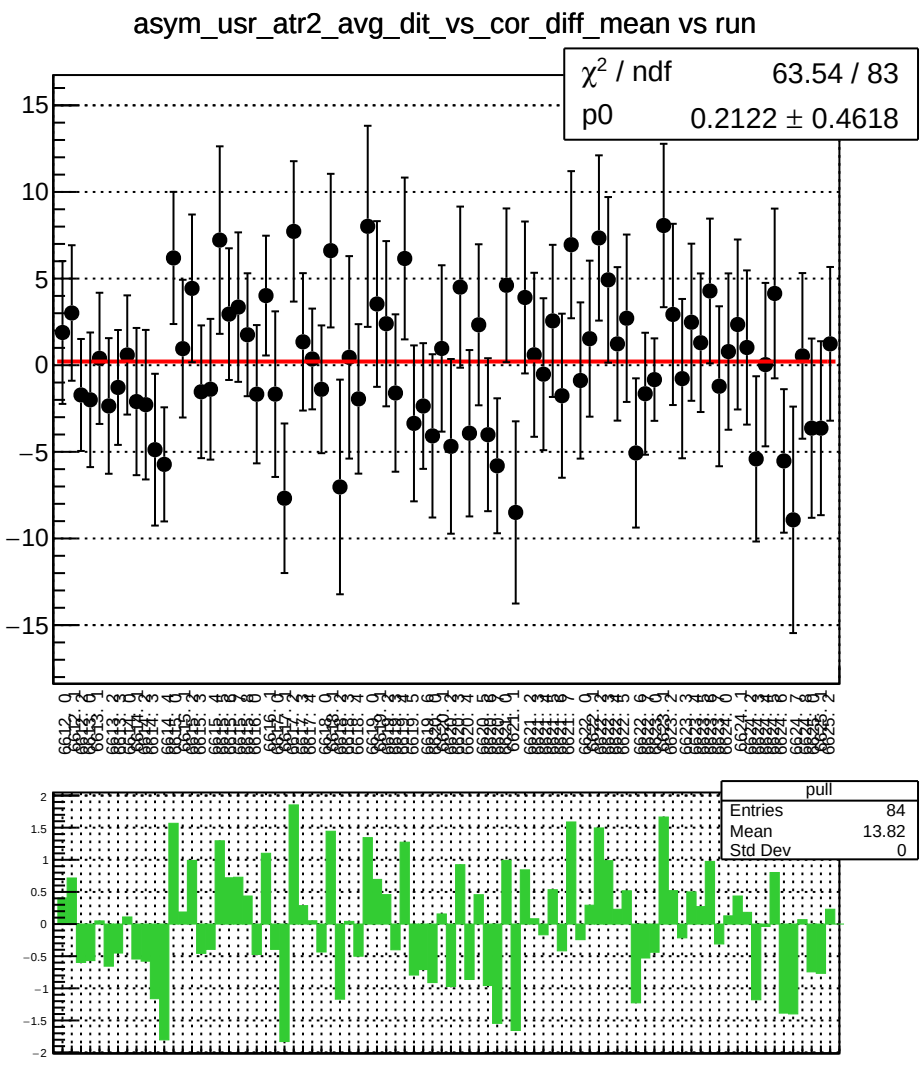

asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 66.83 / 83
p0 1181 ± 5227
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −37.34
Std Dev 0
2
1
0
−1
−2

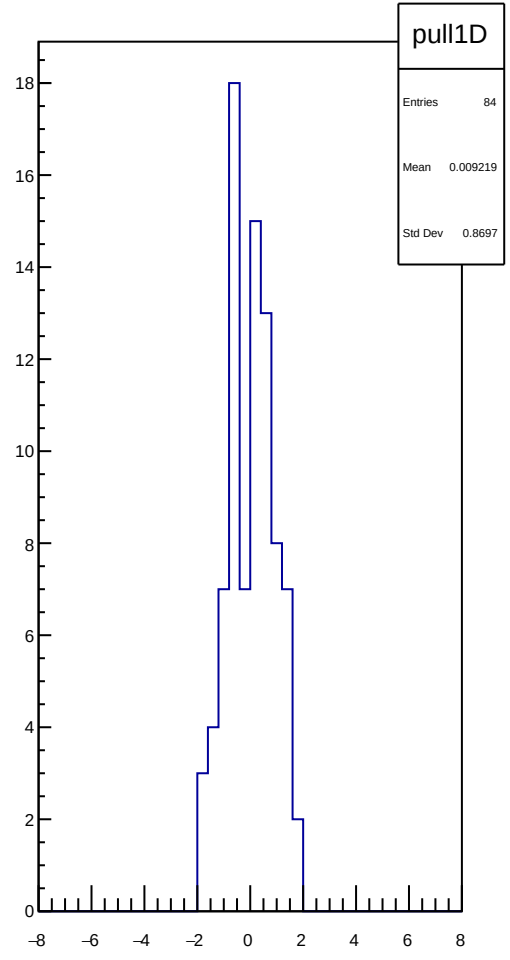

pull1D
Entries 84
Mean −0.01045
Std Dev 0.8919
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

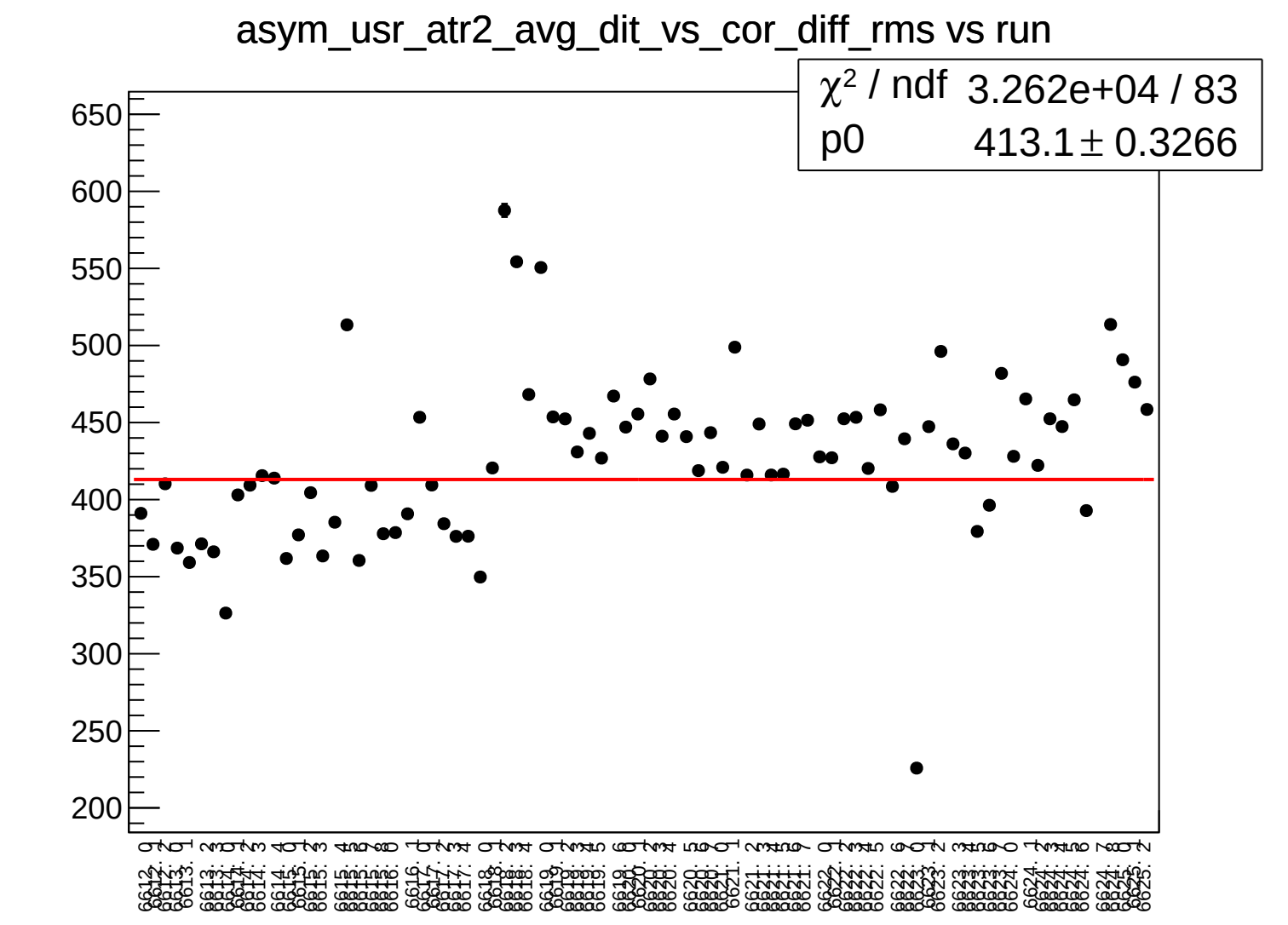

asym_usr_atr2_avg_rms vs run
χ² / ndf 8879 / 83
p0 4710 ± 3.696
6000
5500
5000
4500
4000

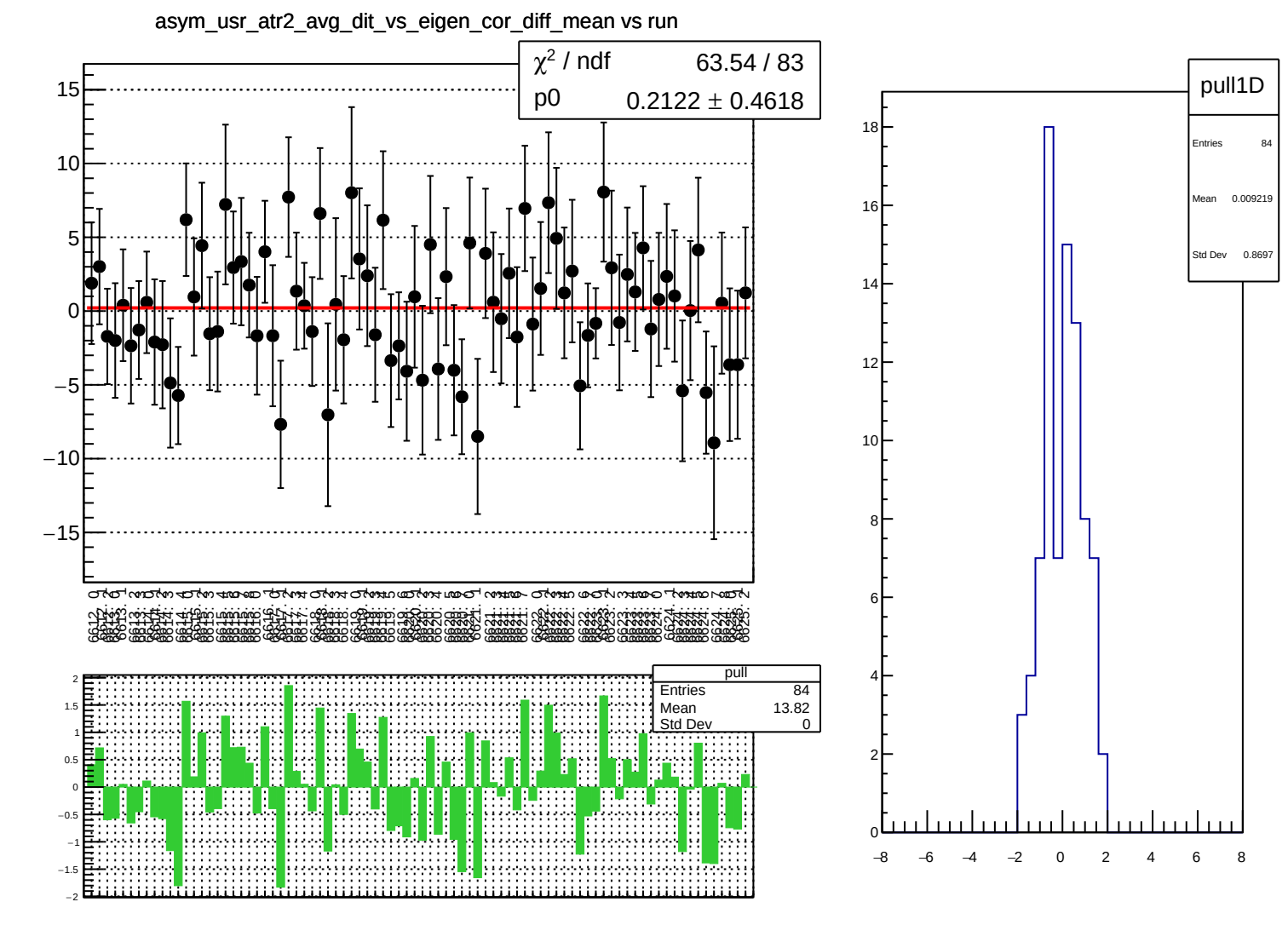

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 64.35 / 83
p0 −7.484e−15 ± 1.417e−13
pull
Entries 84
Mean −4.448
Std Dev 29.92
pull1D
Entries 84
Mean 0.0224
Std Dev 0.875

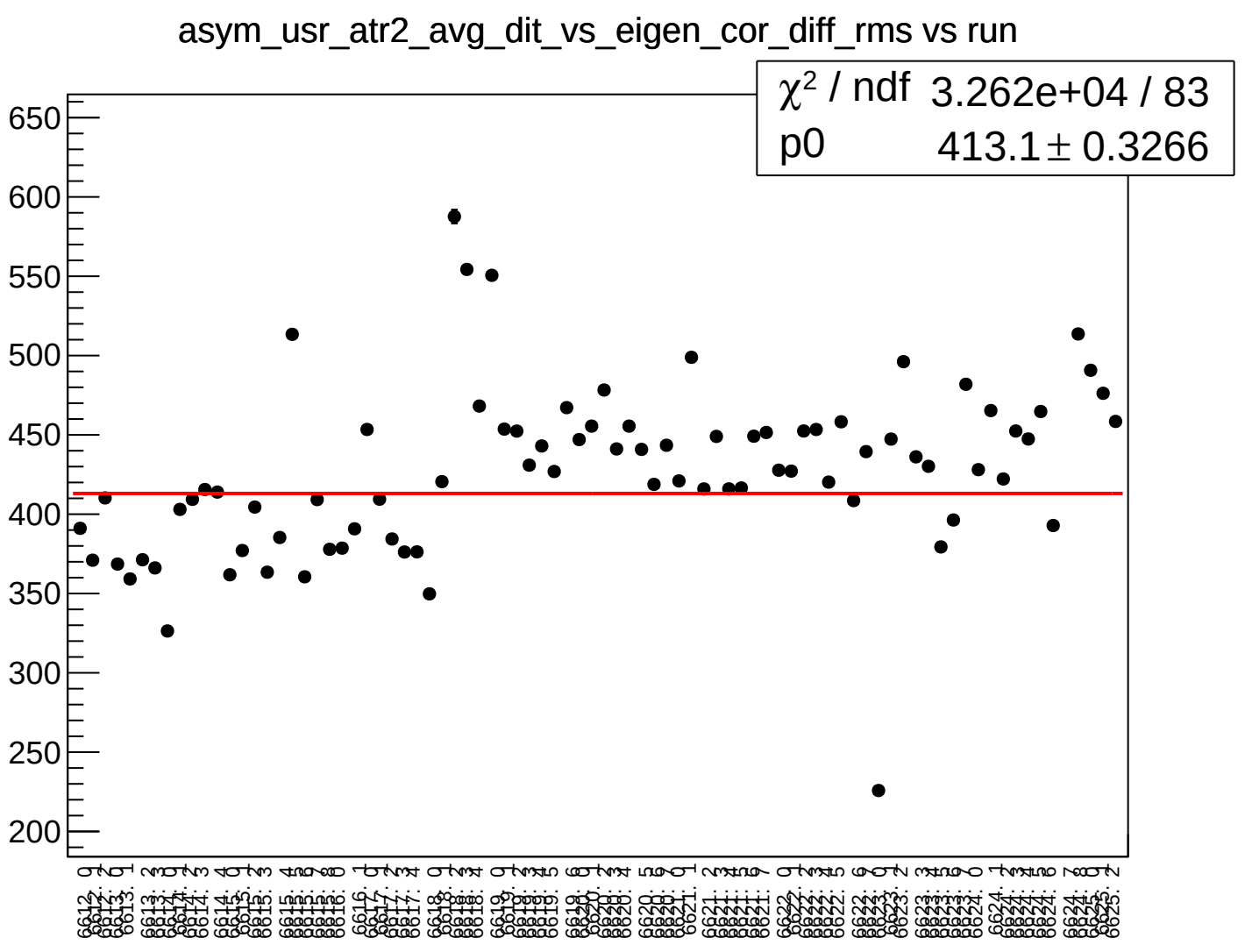

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.83e+05 / 83
p0 8.075e−11 ± 1.002e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

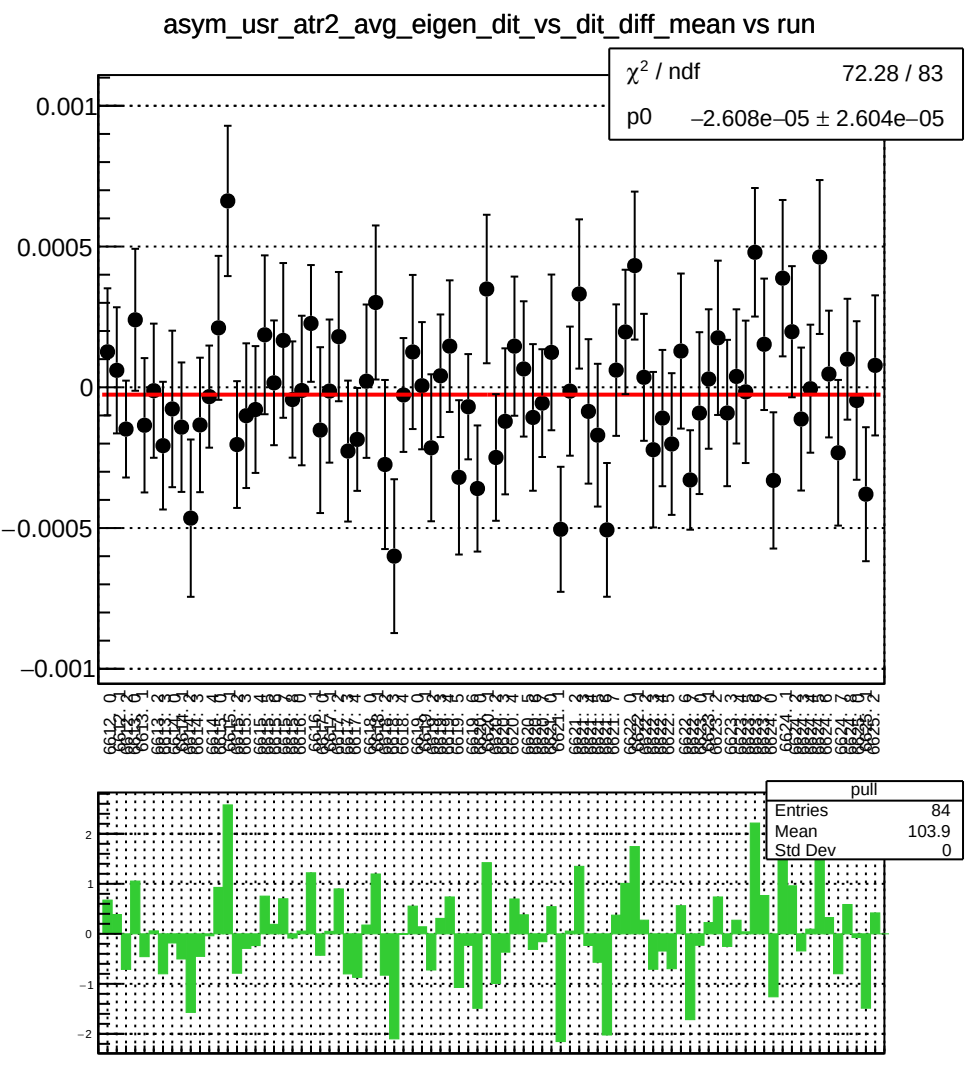

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 63.54 / 83
p0 0.2122 ± 0.4618
pull
Entries 84
Mean 13.82
Std Dev 0

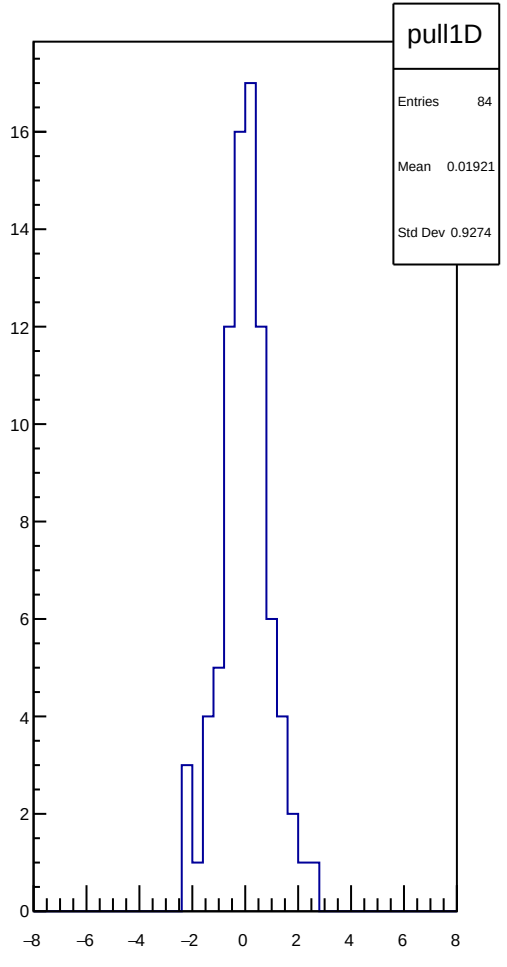

pull1D
Entries 84
Mean 0.009219
Std Dev 0.8697

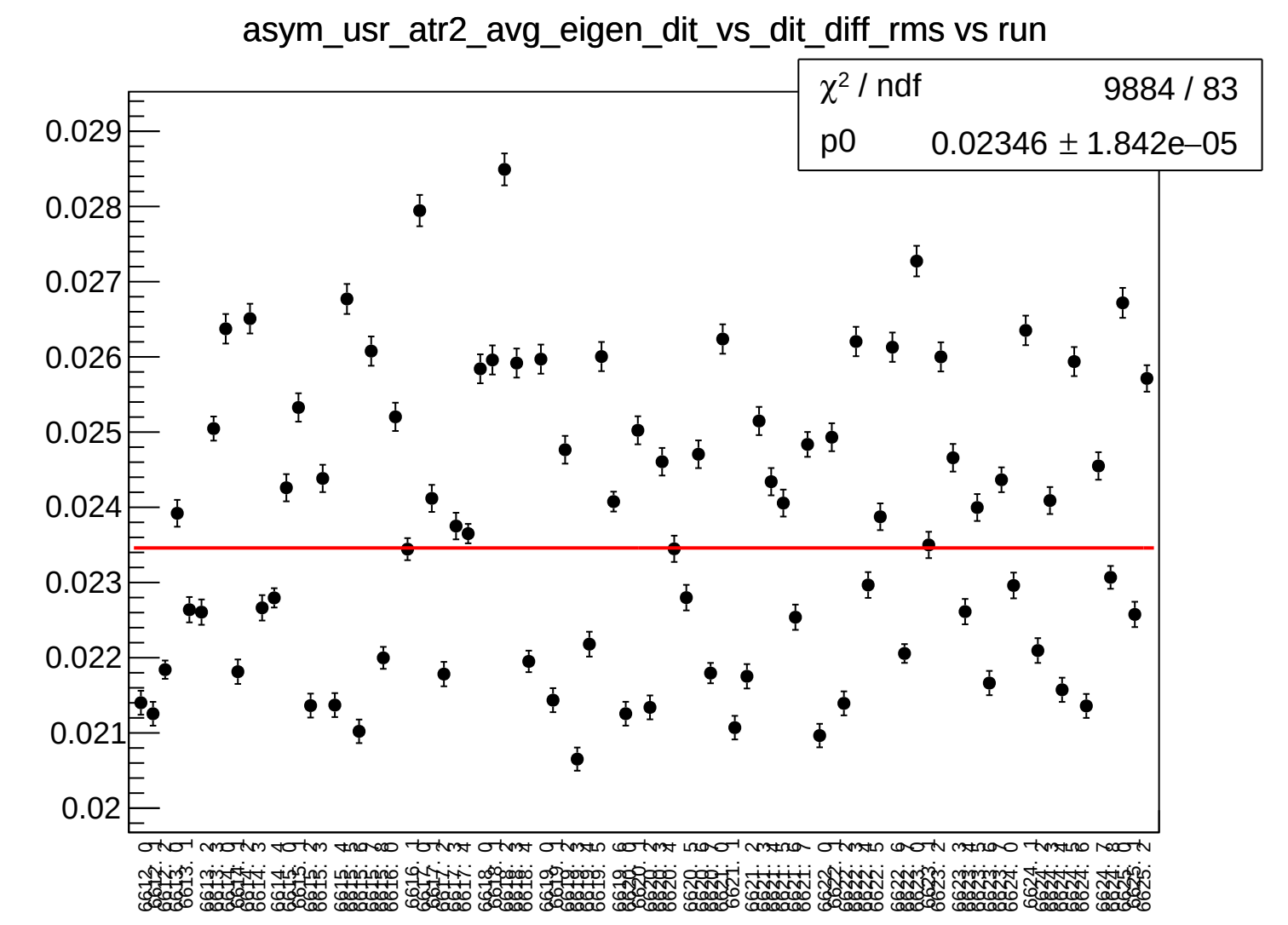

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.262e+04 / 83
p0 413.1 ± 0.3266
650
600
550
500
450
400
350
300
250
200

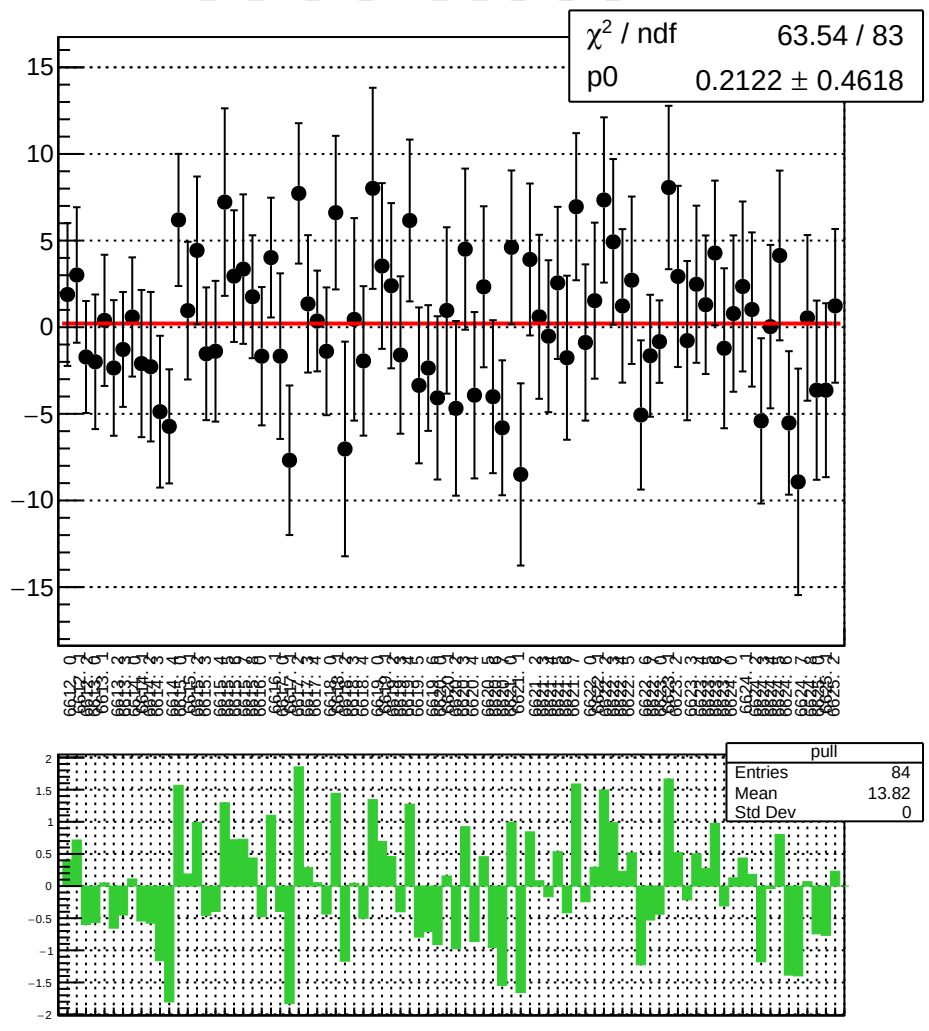

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.54 / 83
p0 0.2122 ± 0.4618
pull
Entries 84
Mean 13.82
Std Dev 0
pull1D
Entries 84
Mean 0.009219
Std Dev 0.8697

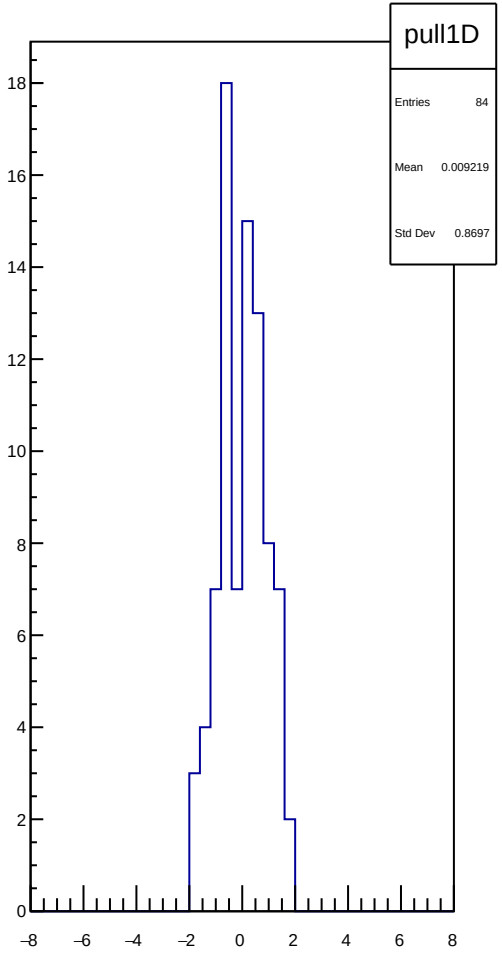

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.262e+04 / 83
p0 413.1 ± 0.3266
650
600
550
500
450
400
350
300
250
200

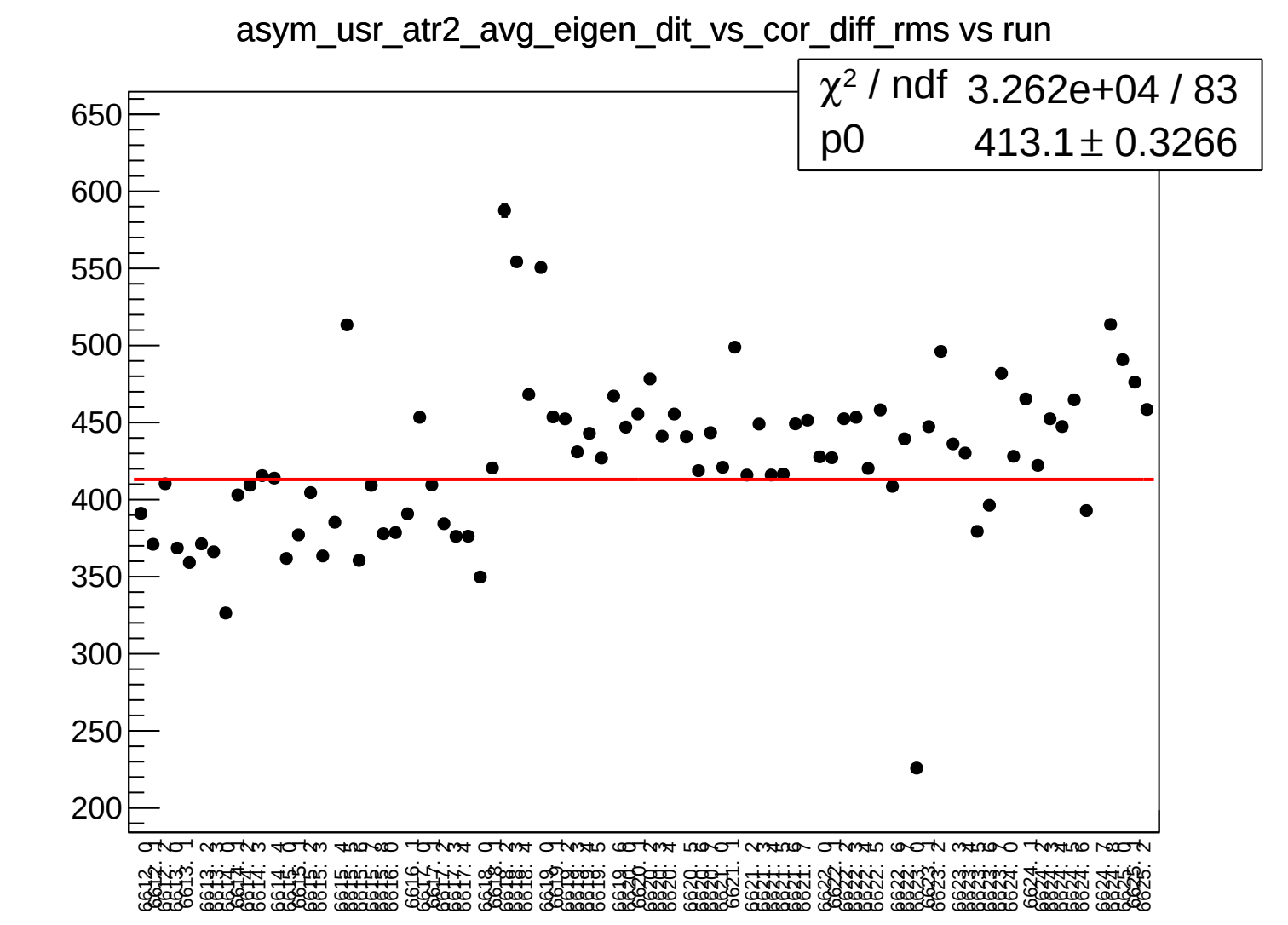

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 72.28 / 83
p0 −2.608e−05 ± 2.604e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 84
Mean 103.9
Std Dev 0
2
1
0
−1
−2

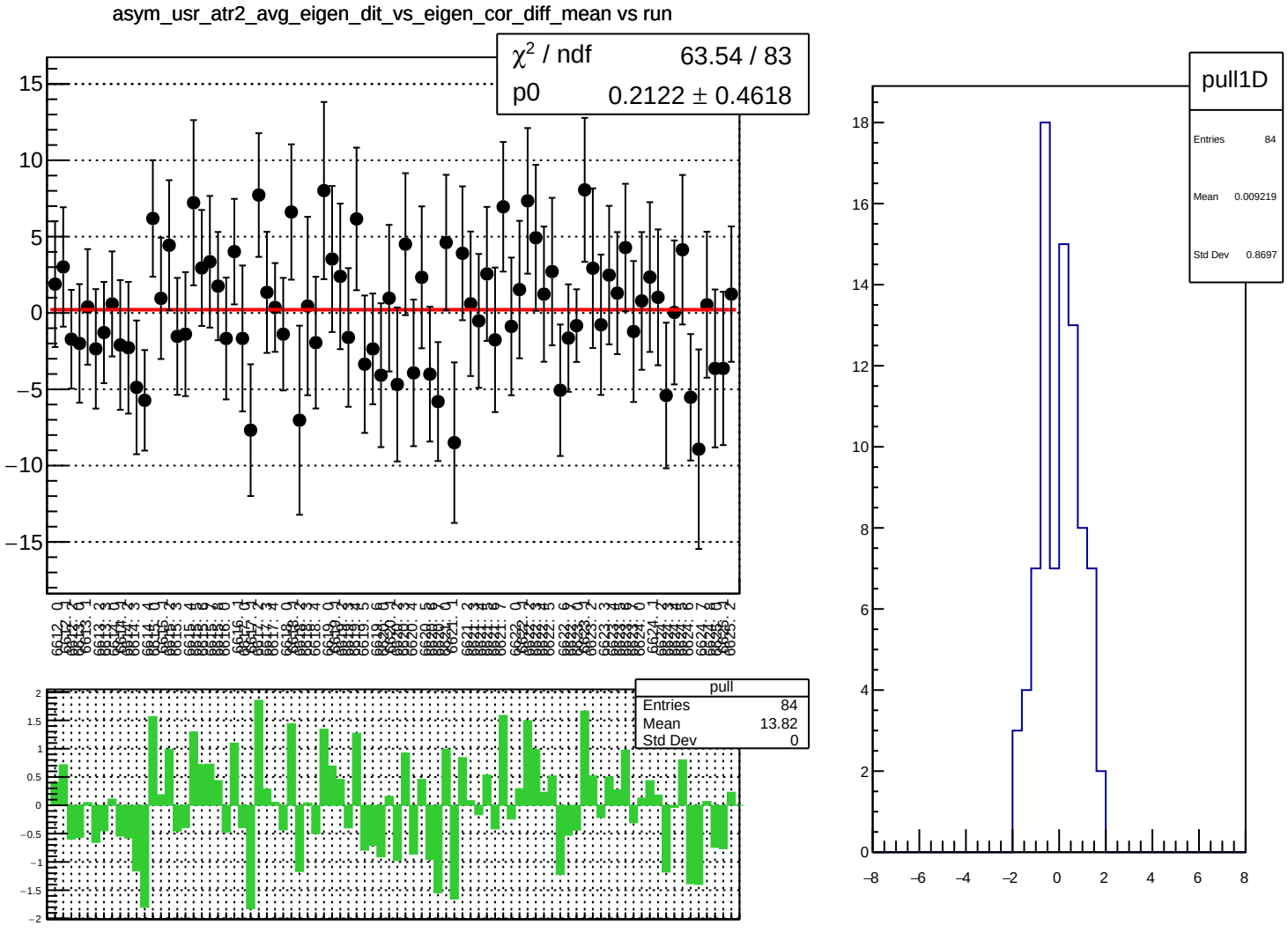

pull1D
Entries 84
Mean 0.01921
Std Dev 0.9274
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

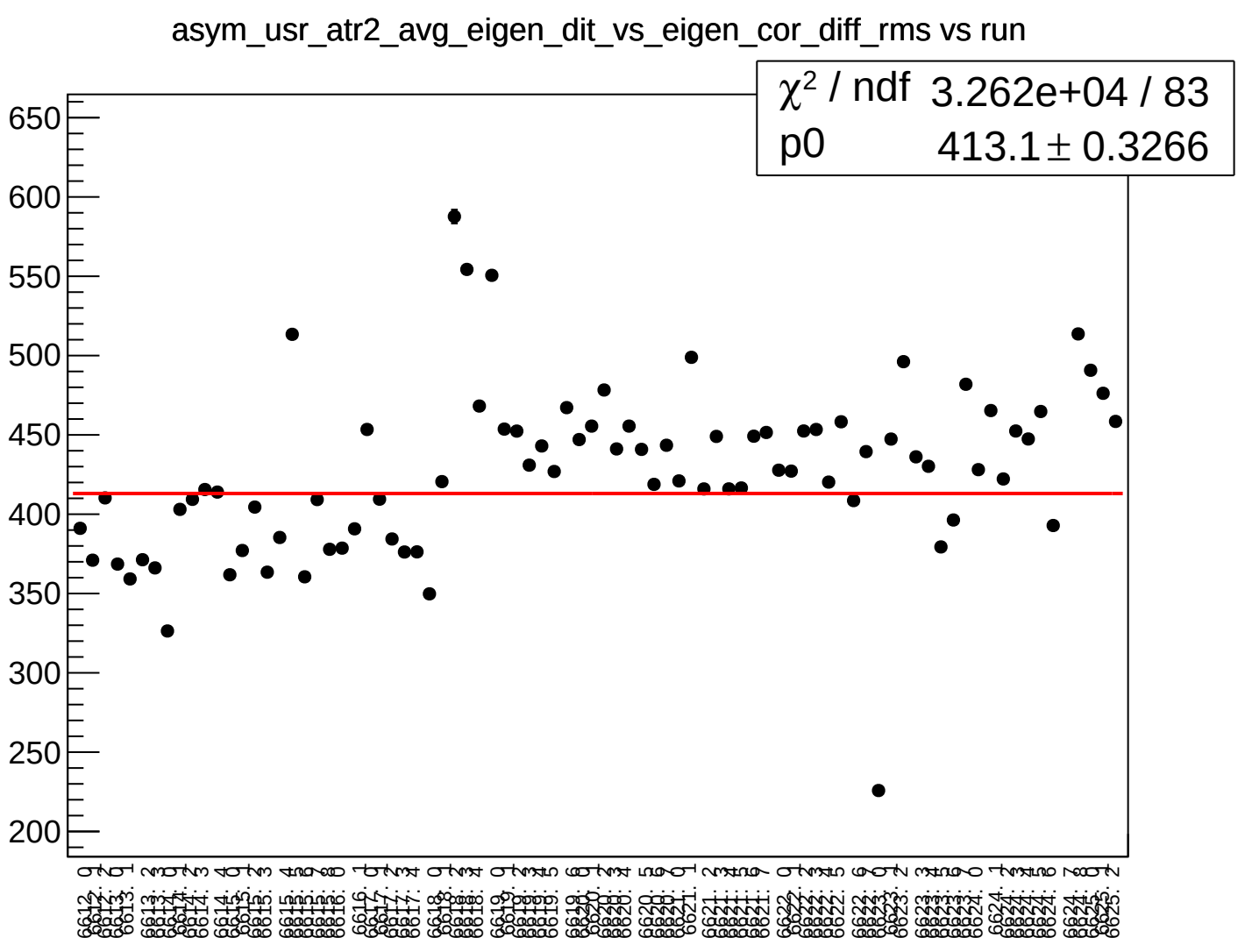

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9884 / 83
p0 0.02346 ± 1.842e−05
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.02

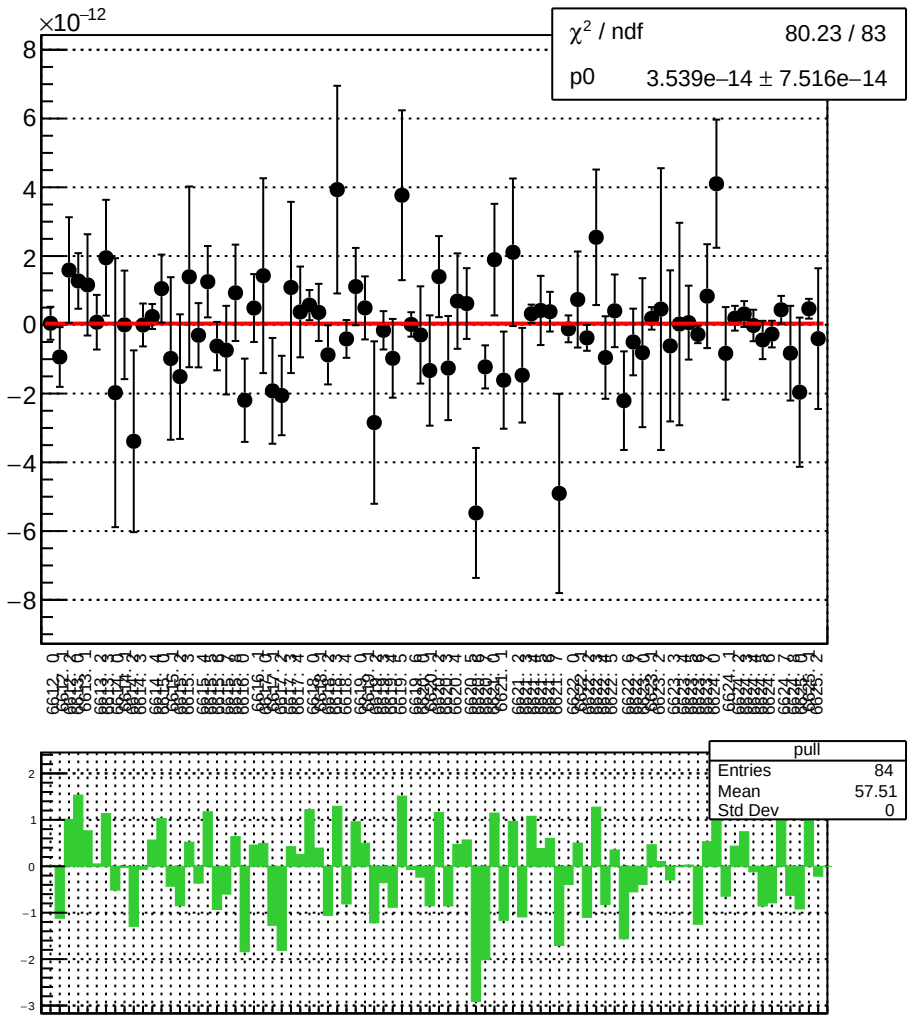

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.54 / 83
p0 0.2122 ± 0.4618
pull
Entries 84
Mean 13.82
Std Dev 0

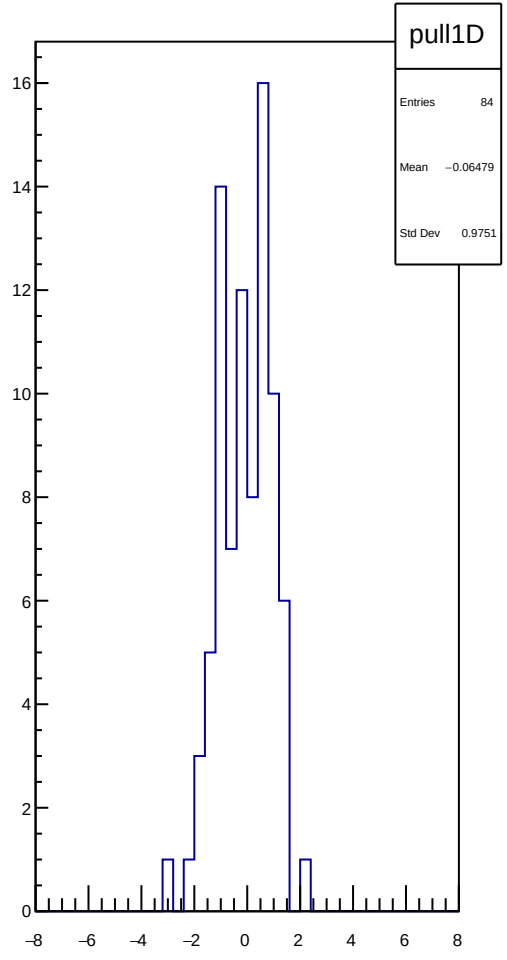

pull1D
Entries 84
Mean 0.009219
Std Dev 0.8697

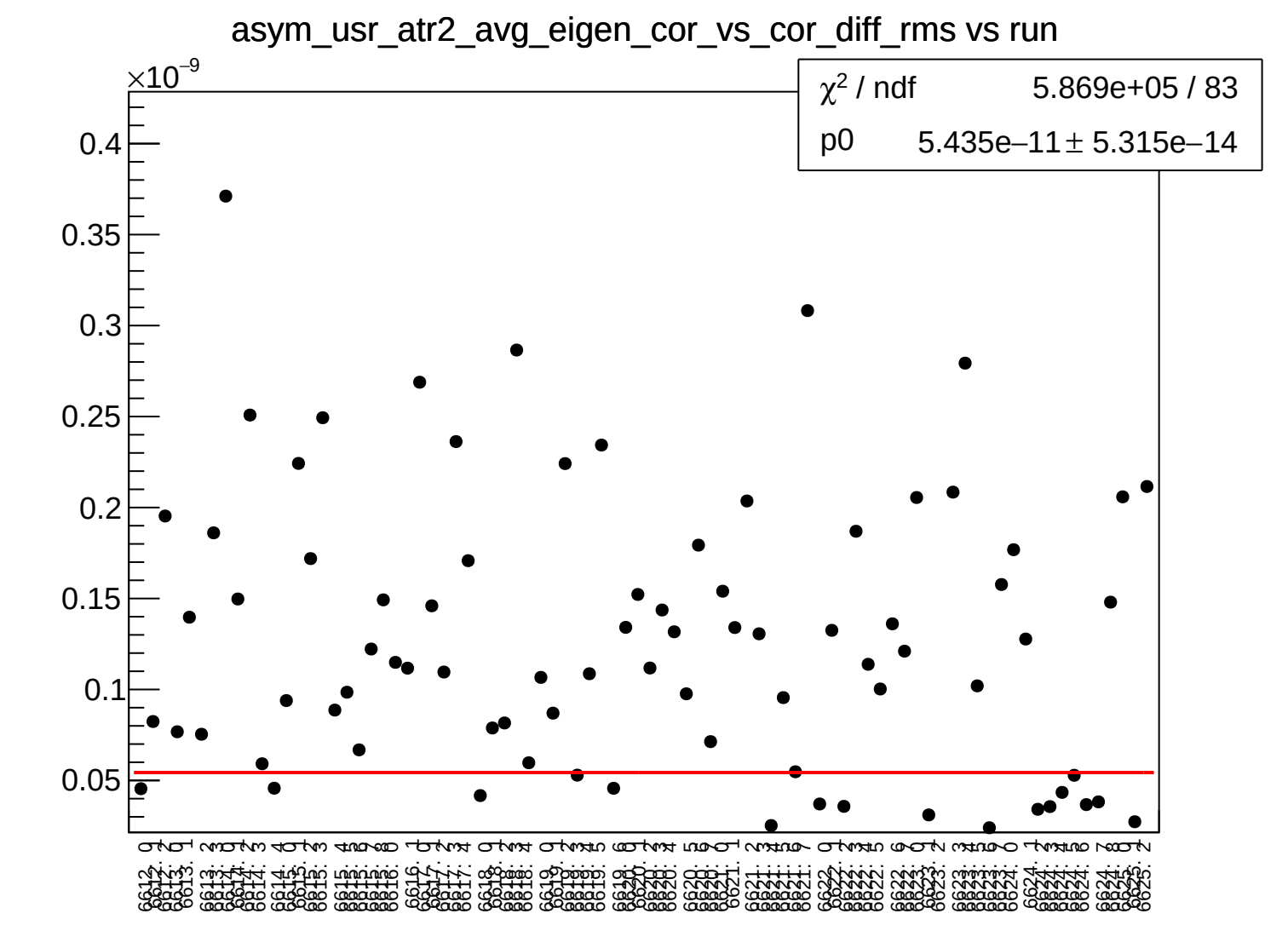

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.262e+04 / 83
p0 413.1 ± 0.3266
650
600
550
500
450
400
350
300
250
200

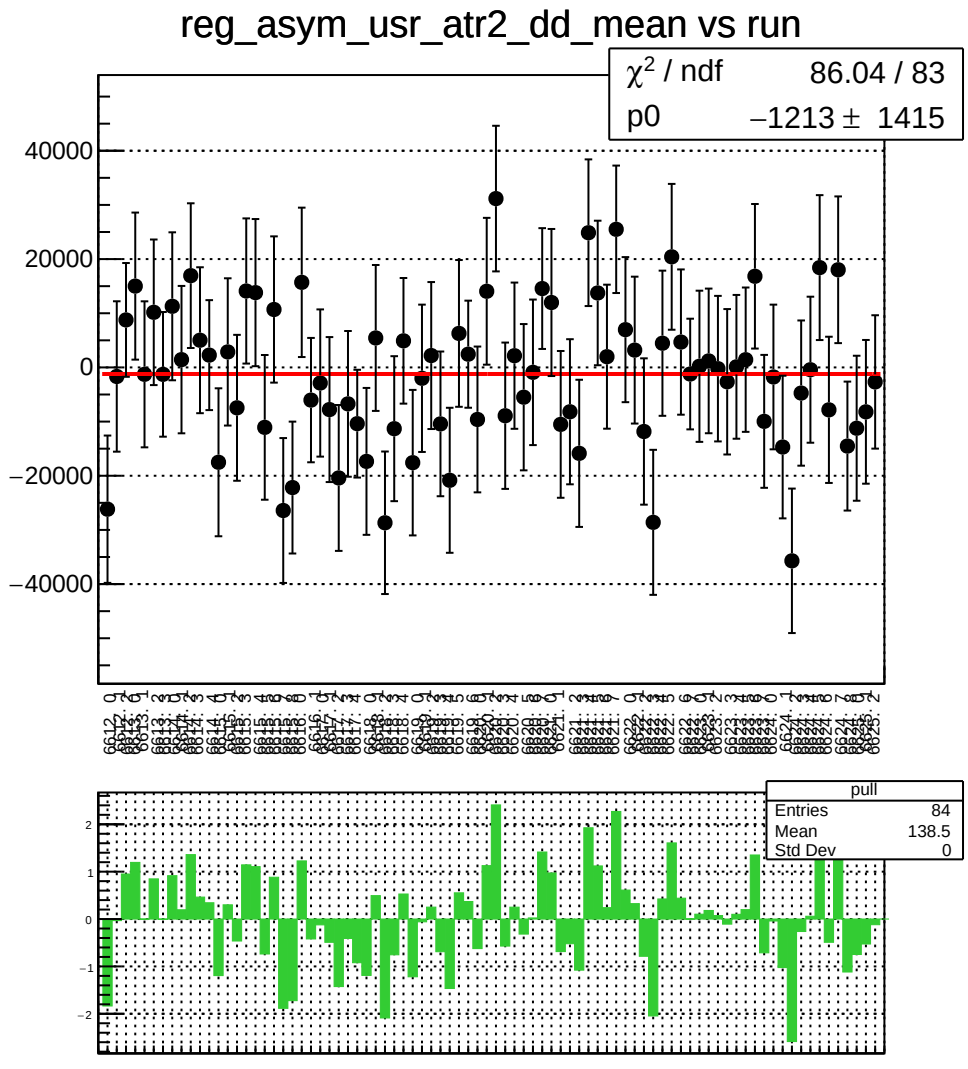

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.54 / 83
p0 0.2122 ± 0.4618
pull
Entries 84
Mean 13.82
Std Dev 0
pull1D
Entries 84
Mean 0.009219
Std Dev 0.8697

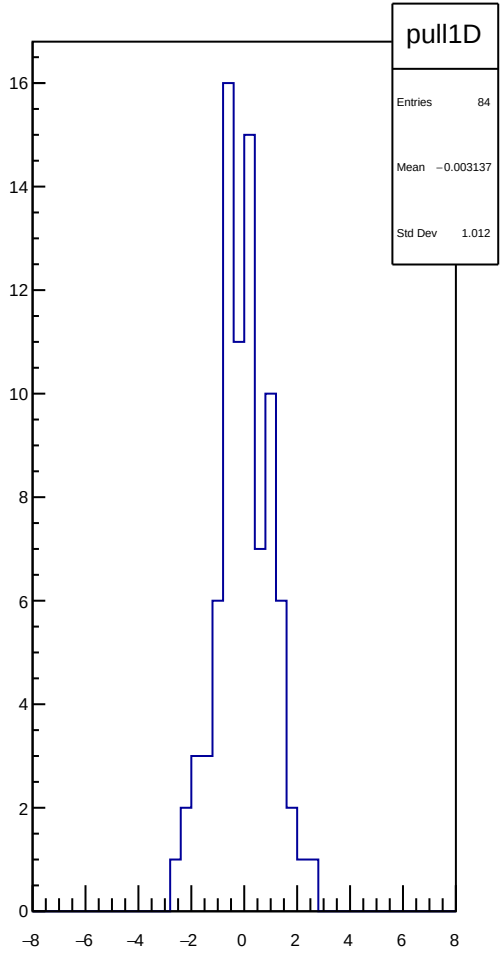

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.262e+04 / 83
p0 413.1 ± 0.3266
650
600
550
500
450
400
350
300
250
200

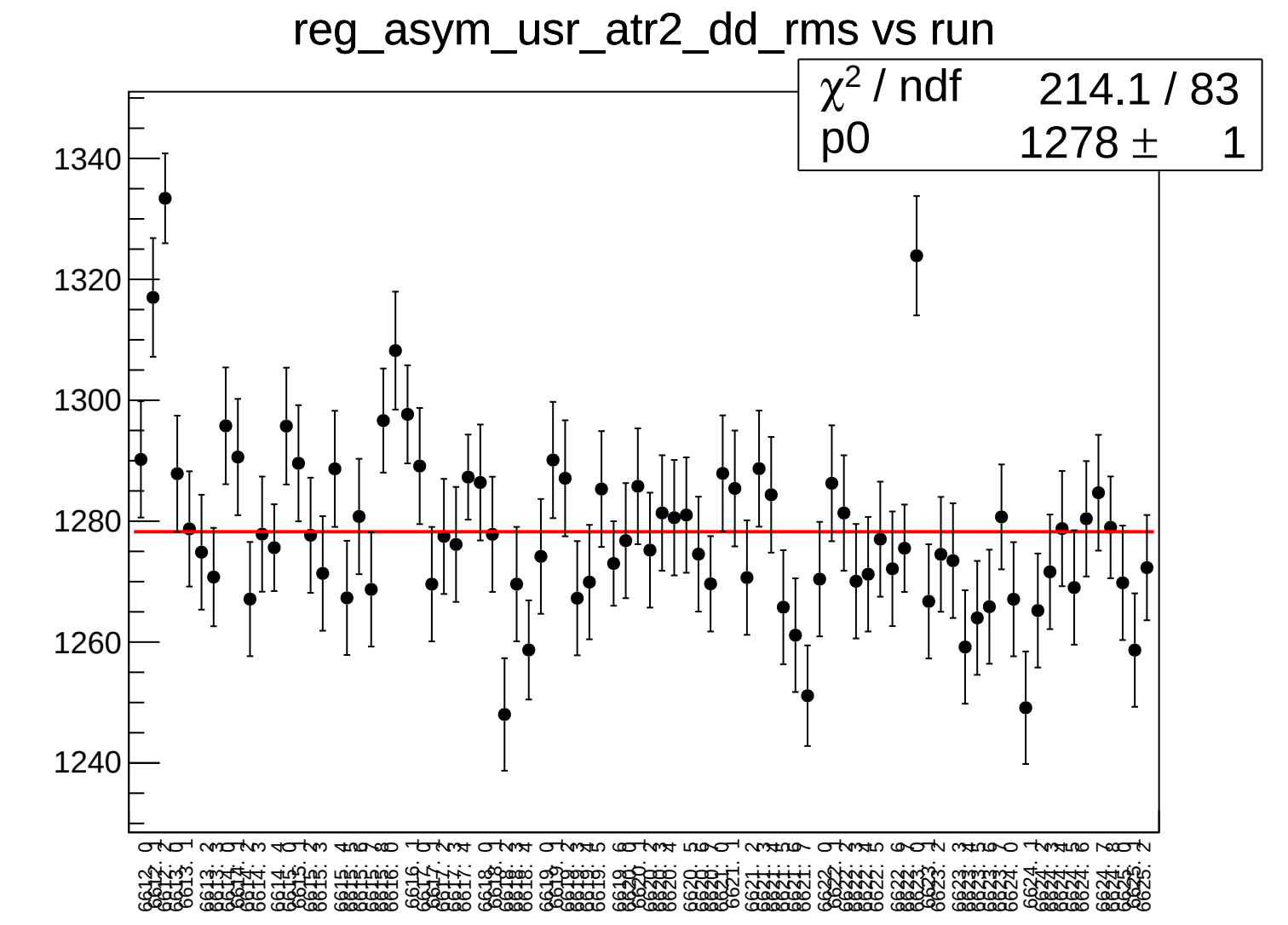

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.23 / 83
p0 3.539e−14 ± 7.516e−14
pull
Entries 84
Mean 57.51
Std Dev 0

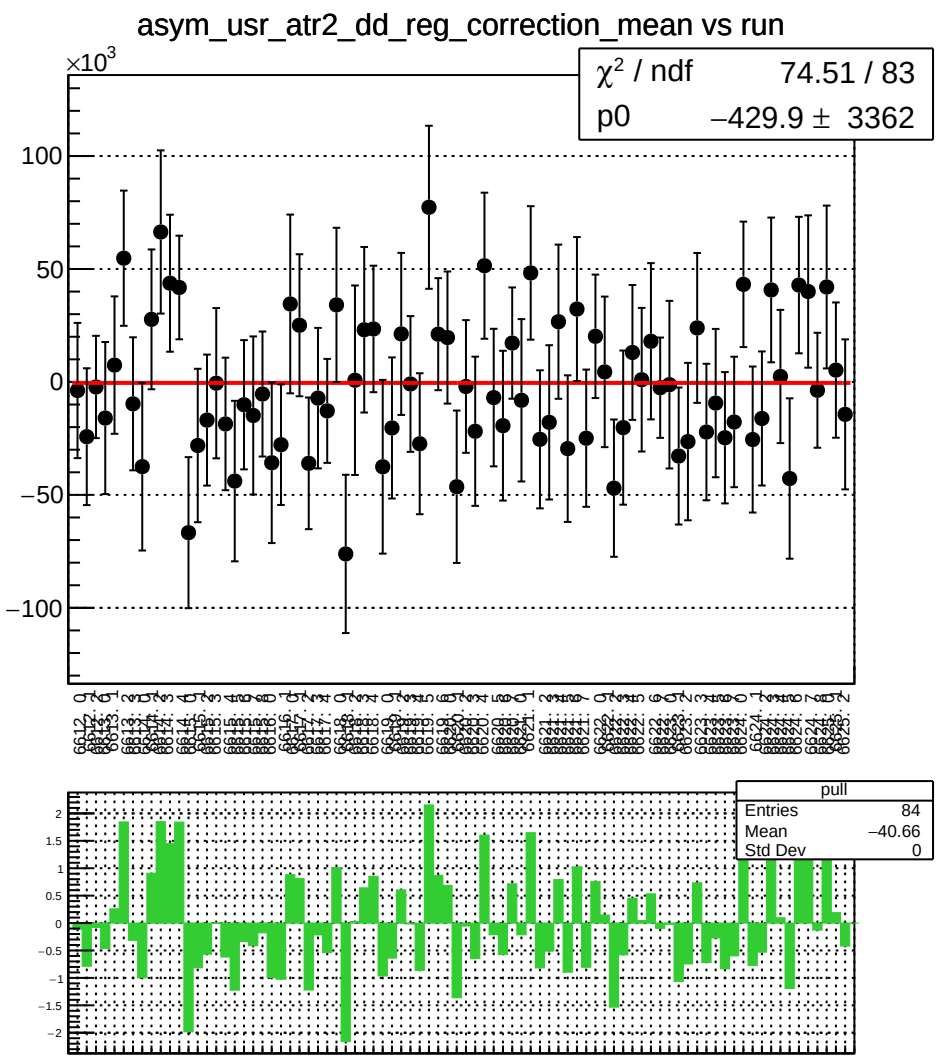

pull1D
Entries 84
Mean −0.06479
Std Dev 0.9751

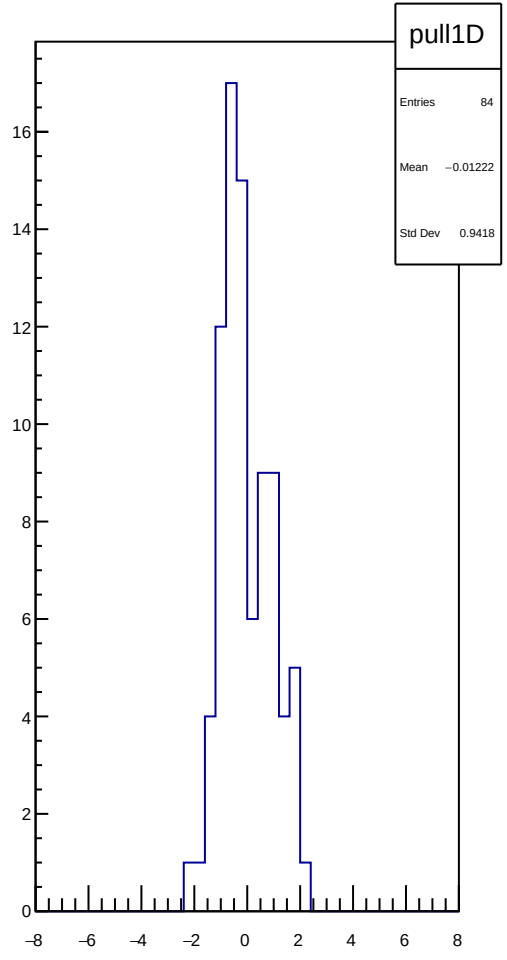

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.869e+05 / 83
p0 5.435e−11 ± 5.315e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

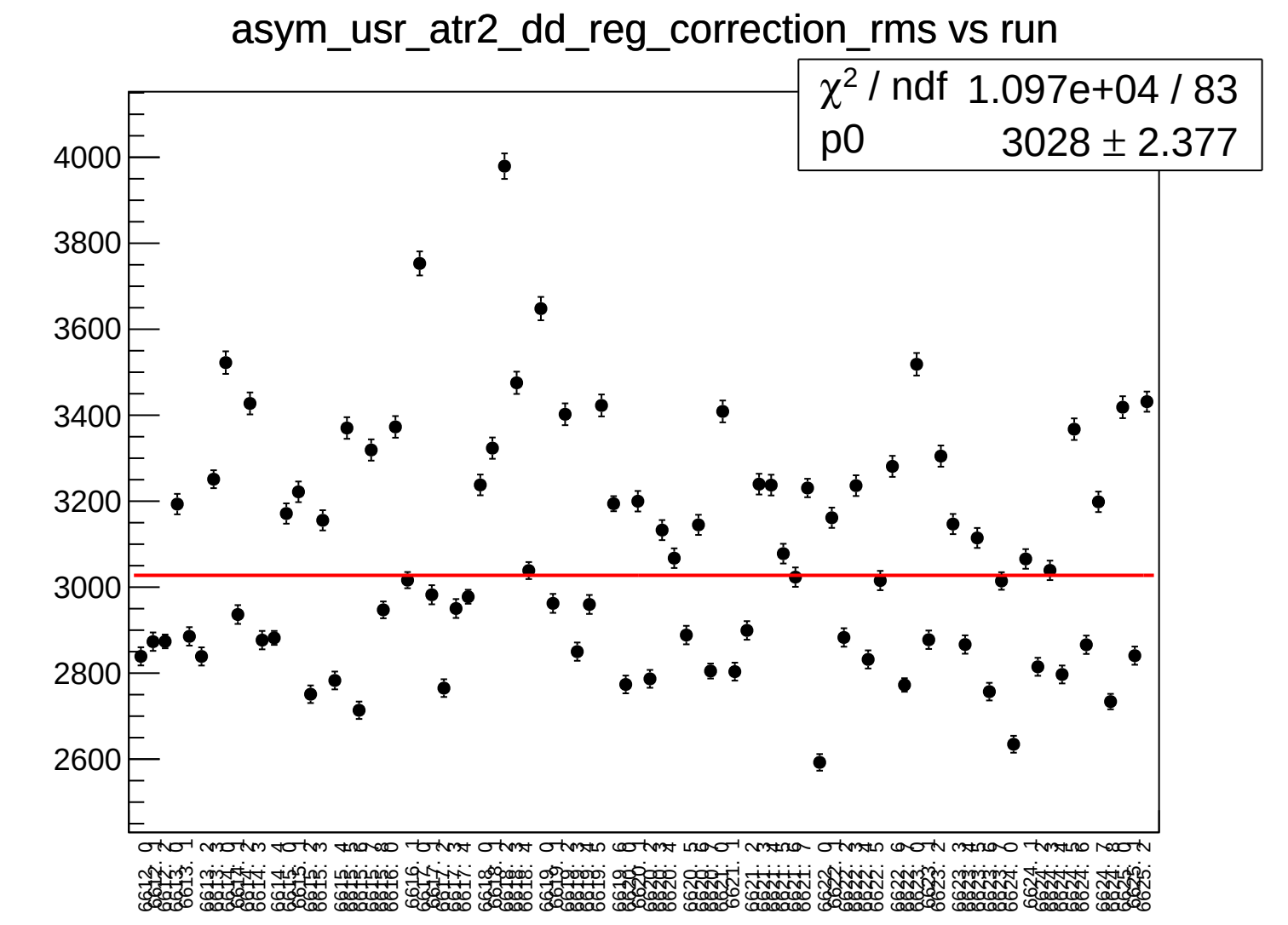

reg_asym_usr_atr2_dd_mean vs run
χ^2 / ndf 86.04 / 83
p0 −1213 ± 1415
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 138.5
Std Dev 0
2
1
0
−1
−2

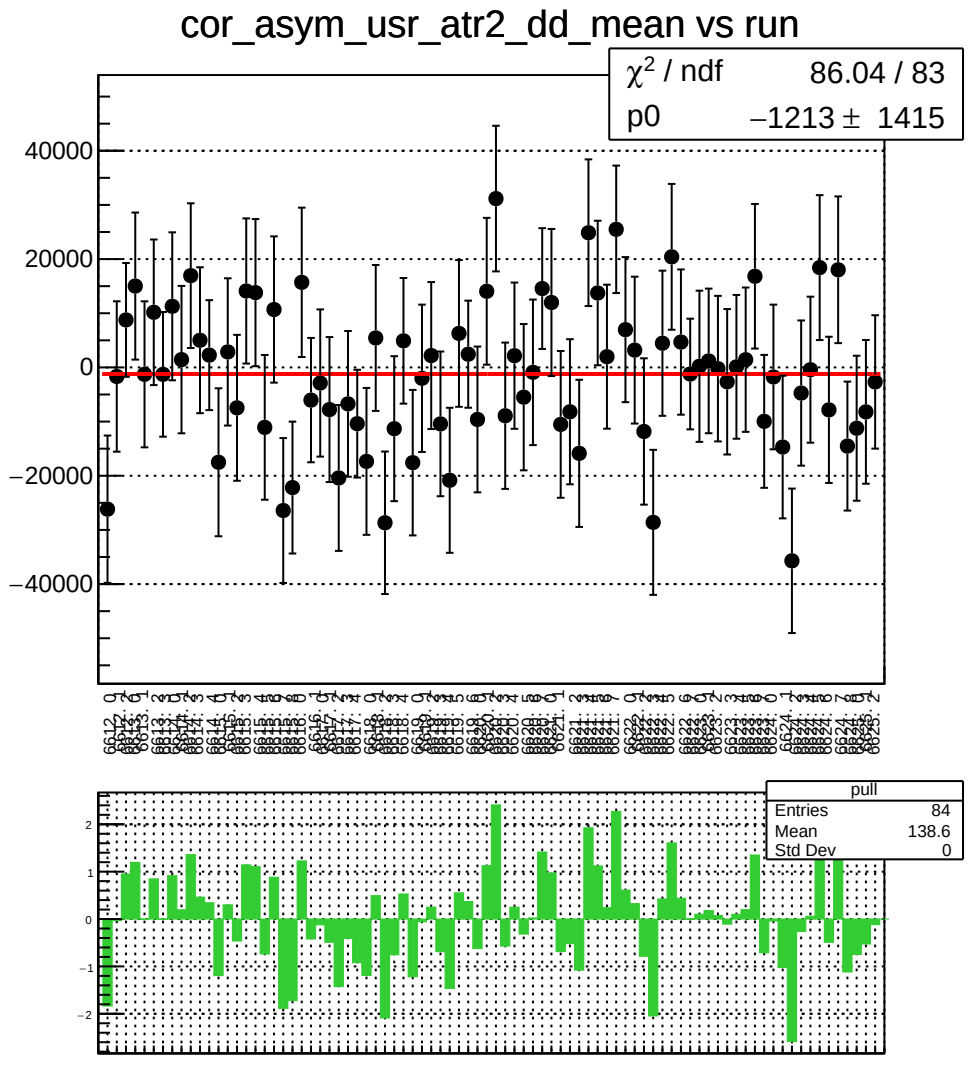

pull1D
Entries 84
Mean −0.003137
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

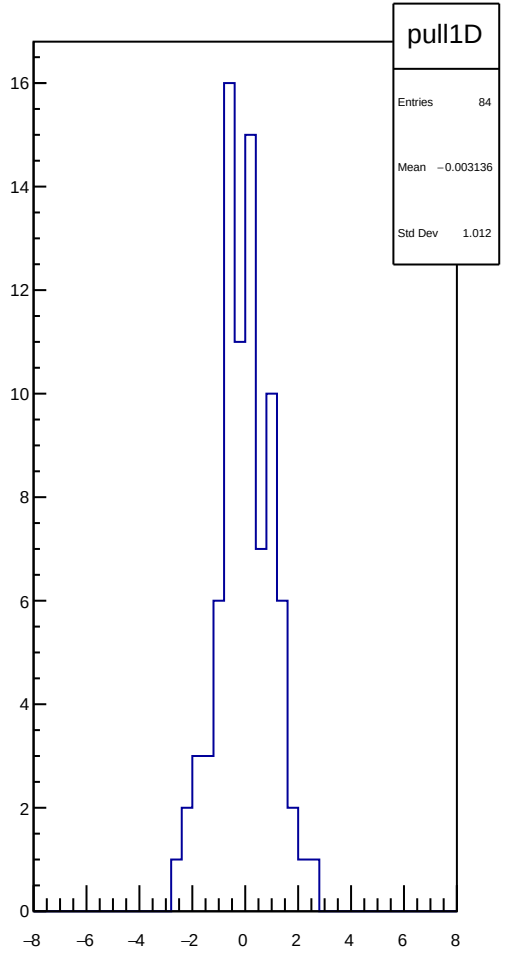

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 214.1 / 83
p0 1278 ± 1
1340
1320
1300
1280
1260
1240

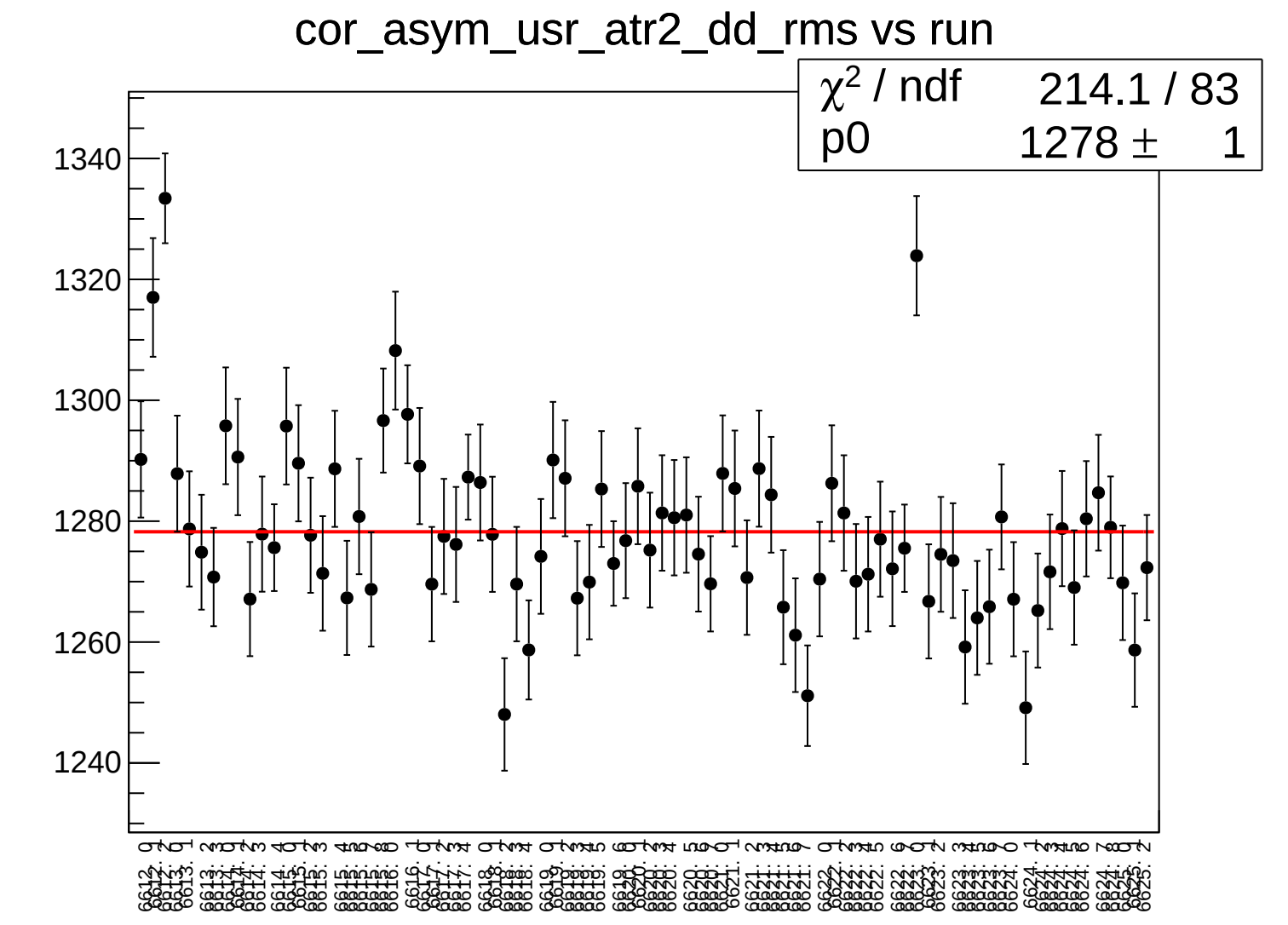

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 74.51 / 83
p0 −429.9 ± 3362
100
50
0
−50
−100
pull
Entries 84
Mean −40.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

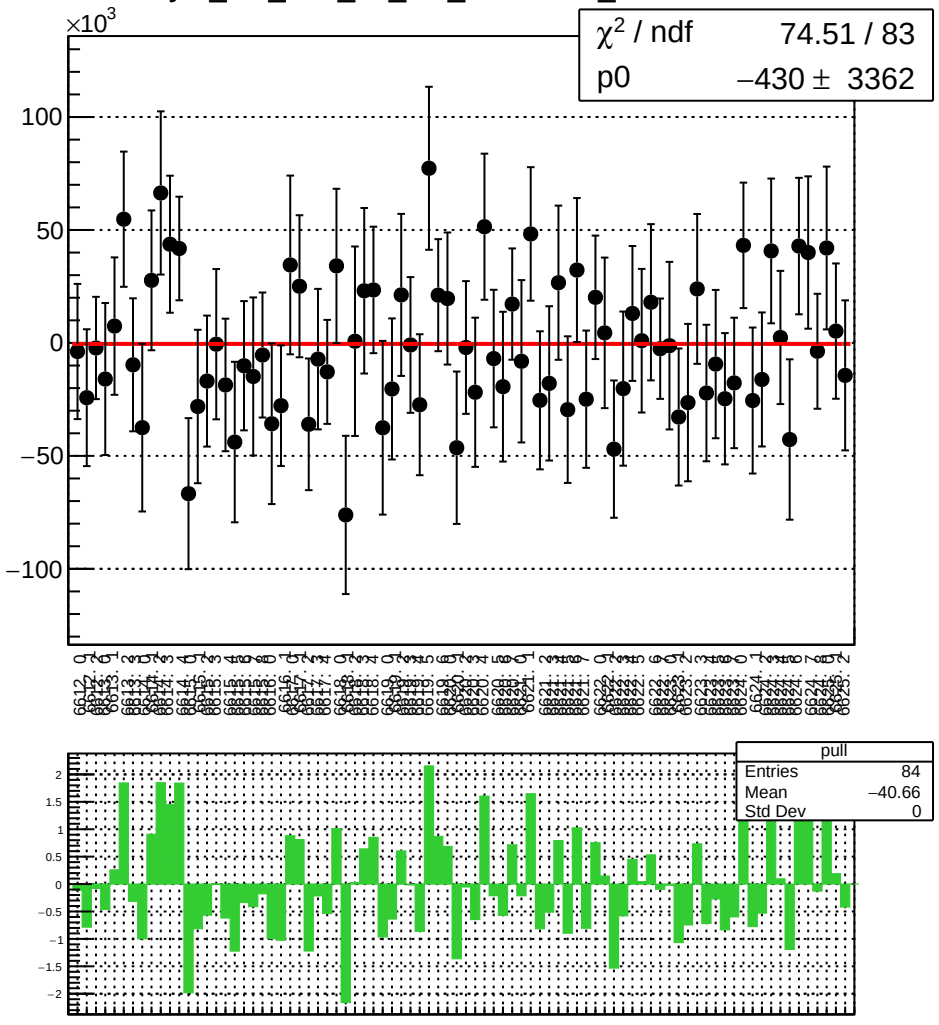

pull1D
Entries 84
Mean −0.01222
Std Dev 0.9418
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

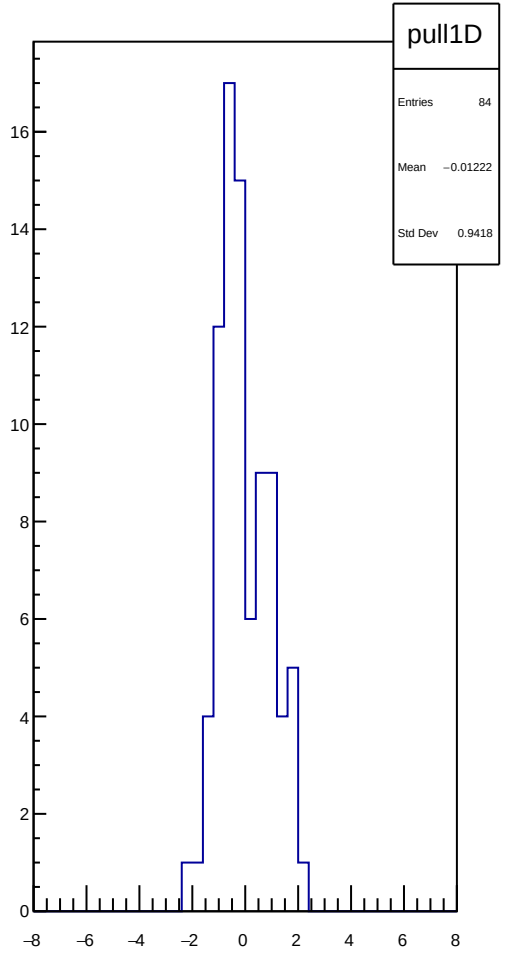

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 1.097e+04 / 83
p0 3028 ± 2.377
4000
3800
3600
3400
3200
3000
2800
2600

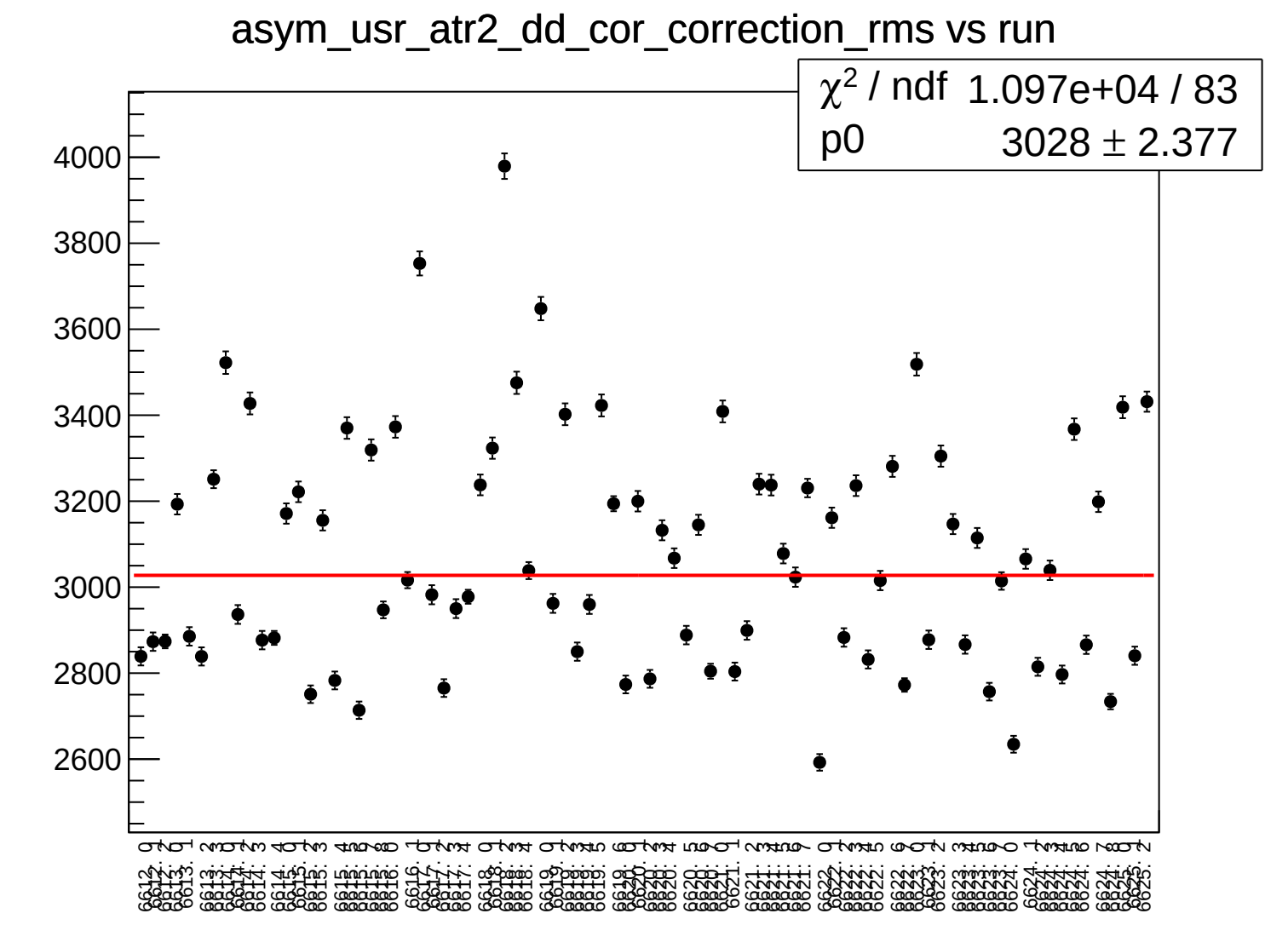

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 86.04 / 83
p0 −1213 ± 1415
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 138.6
Std Dev 0
2
1
0
−1
−2

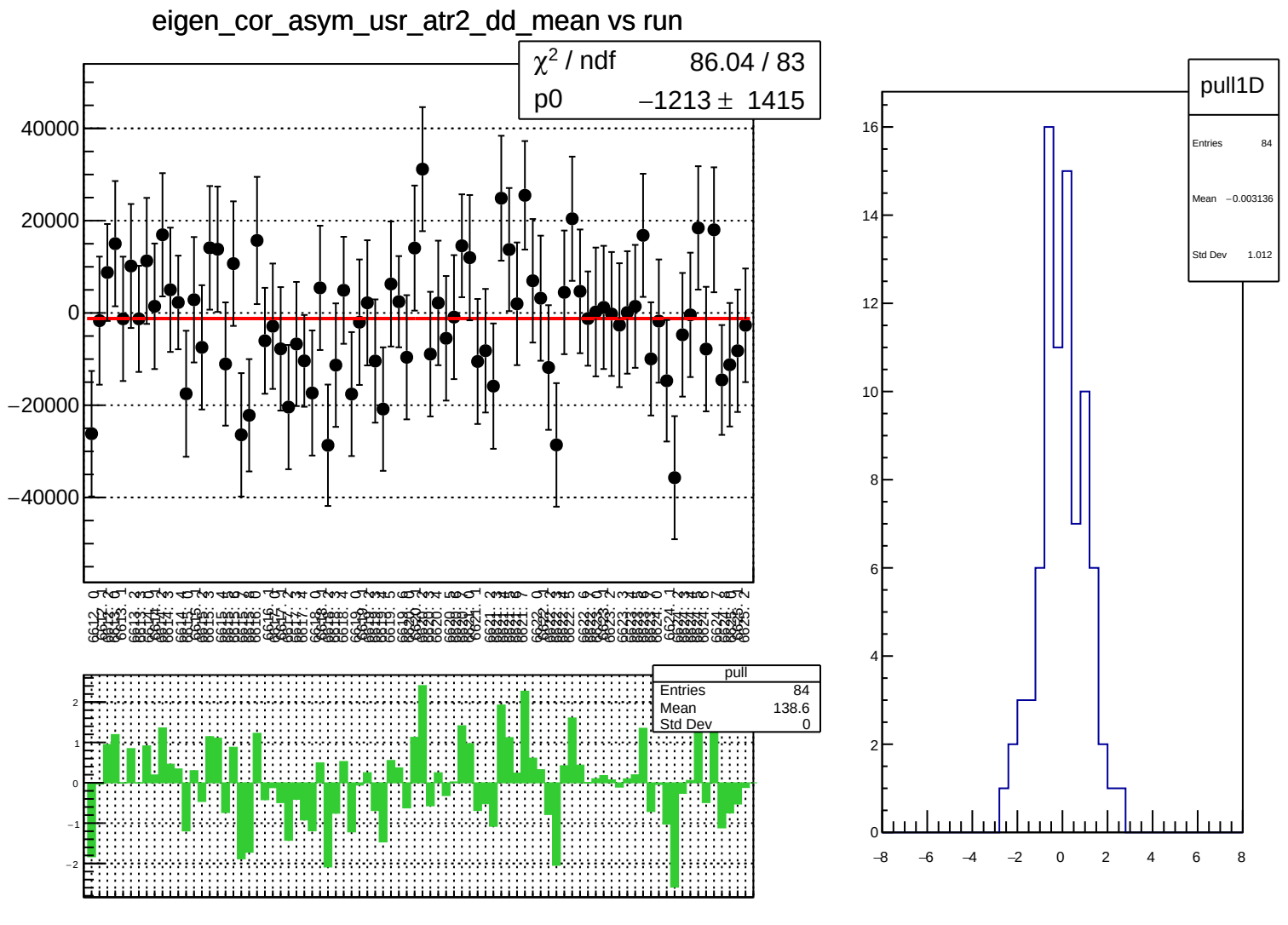

pull1D
Entries 84
Mean −0.003136
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

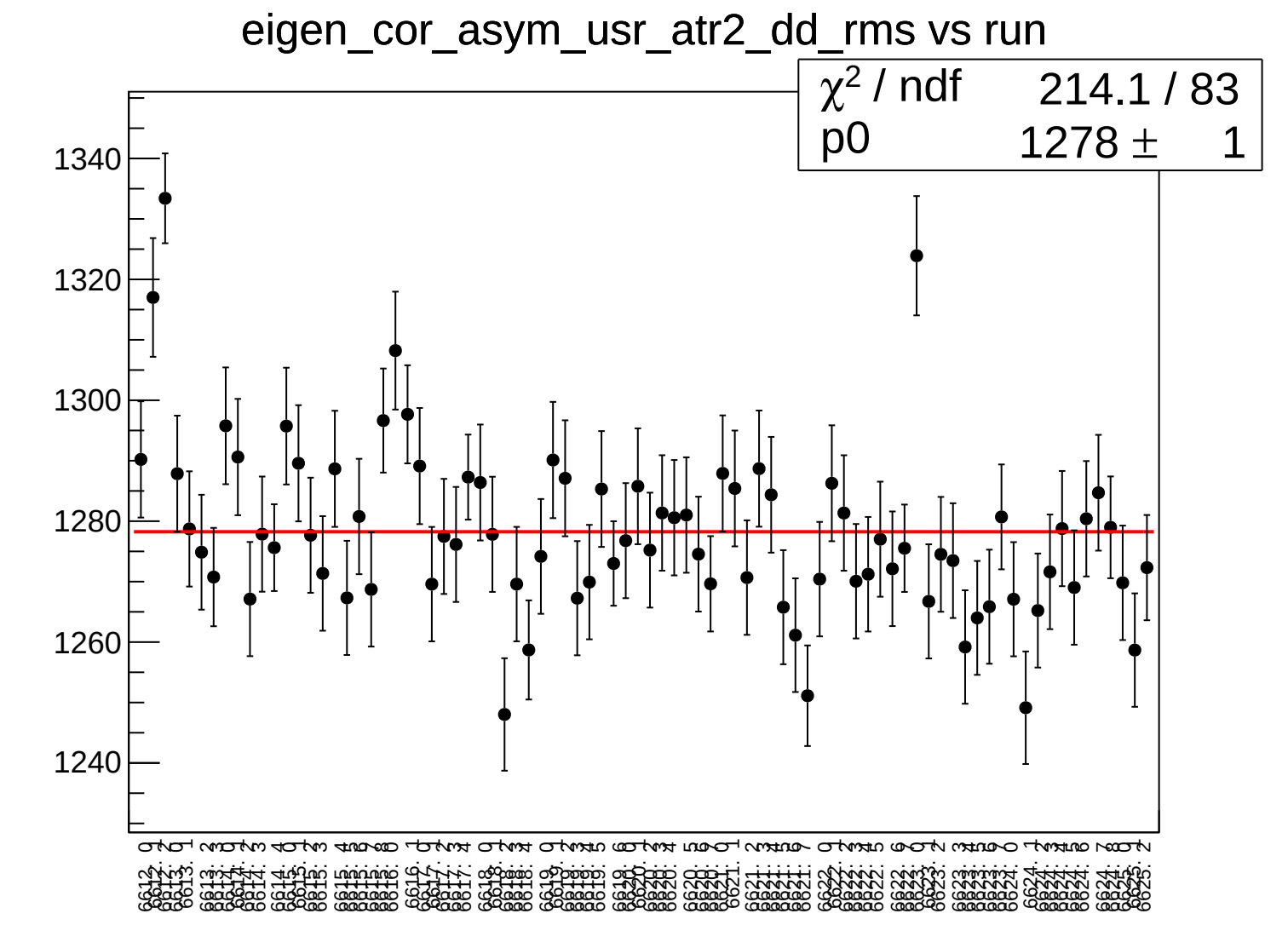

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 214.1 / 83
p0 1278 ± 1
1340
1320
1300
1280
1260
1240

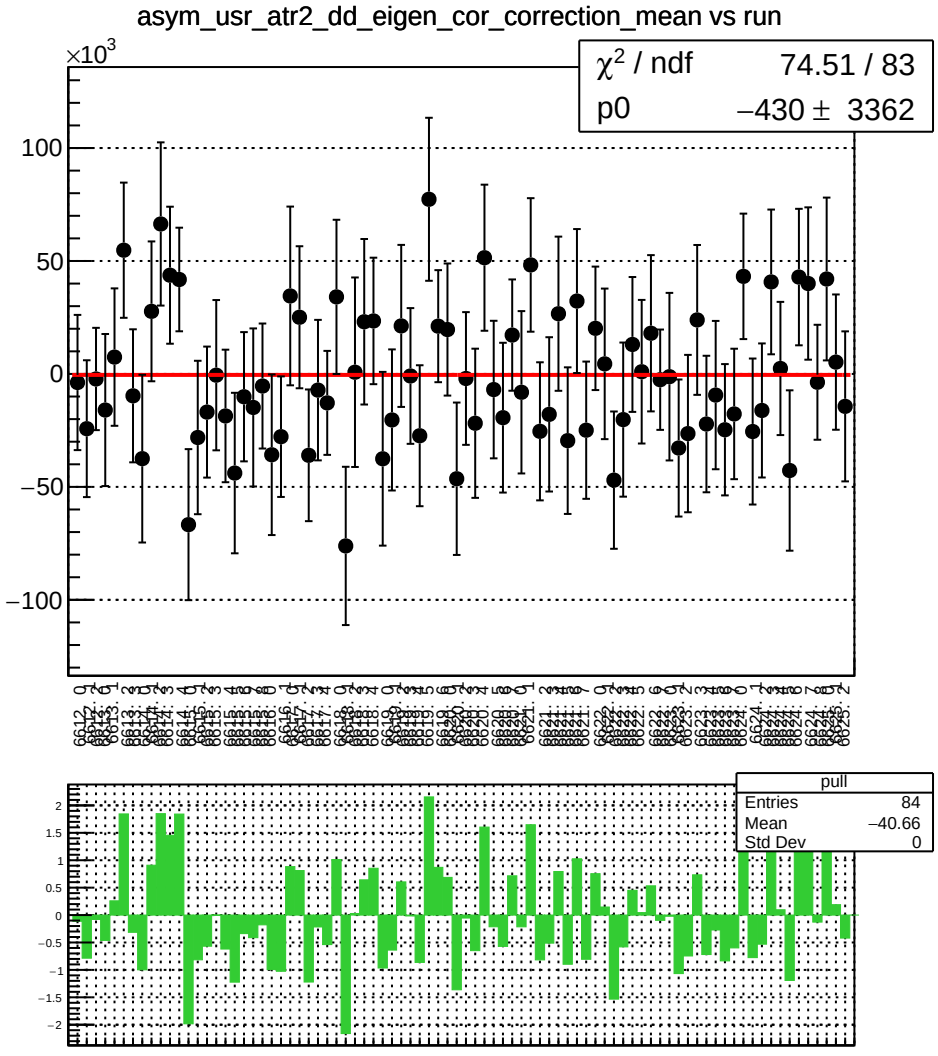

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 74.51 / 83
p0 −430 ± 3362
100
50
0
−50
−100
pull
Entries 84
Mean −40.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

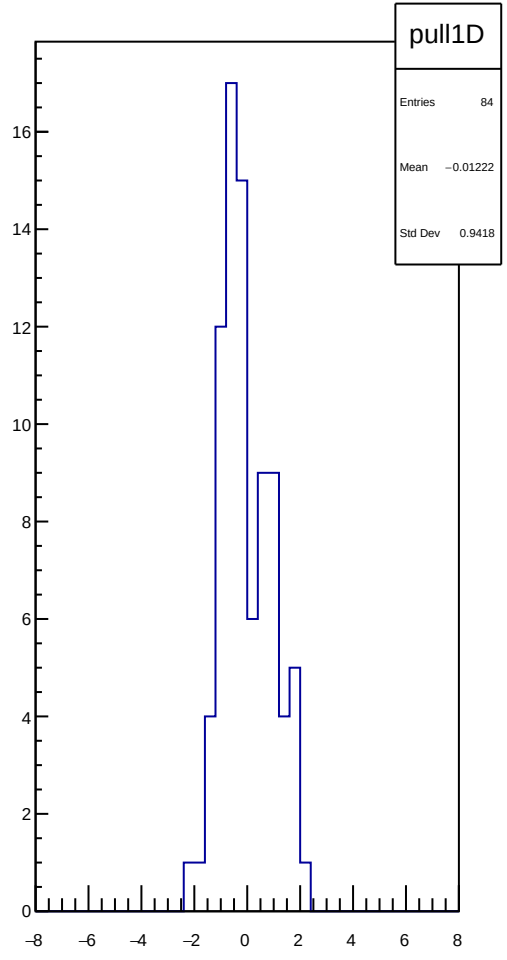

pull1D
Entries 84
Mean −0.01222
Std Dev 0.9418
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

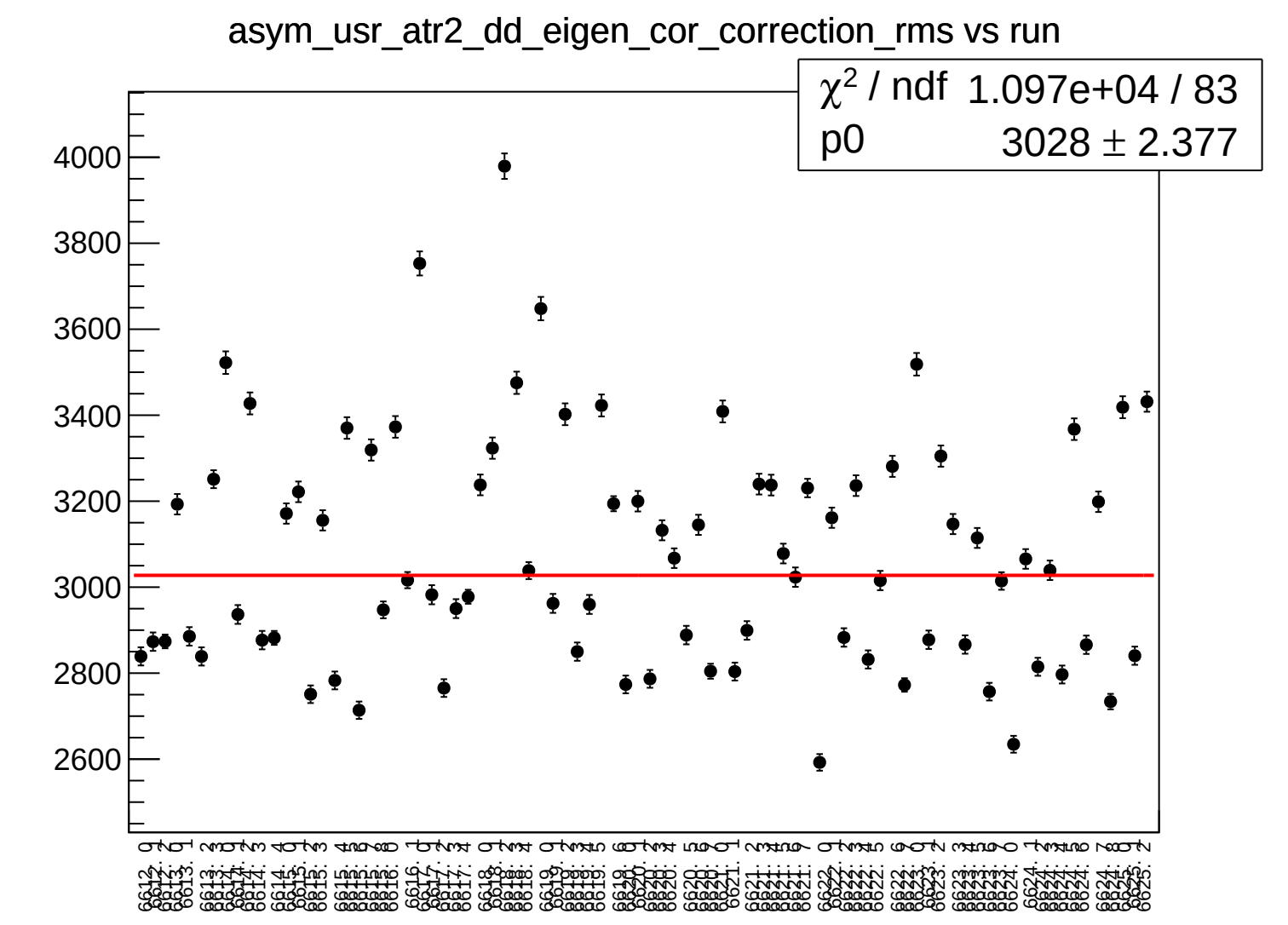

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 1.097e+04 / 83
p0 3028 ± 2.377
4000
3800
3600
3400
3200
3000
2800
2600

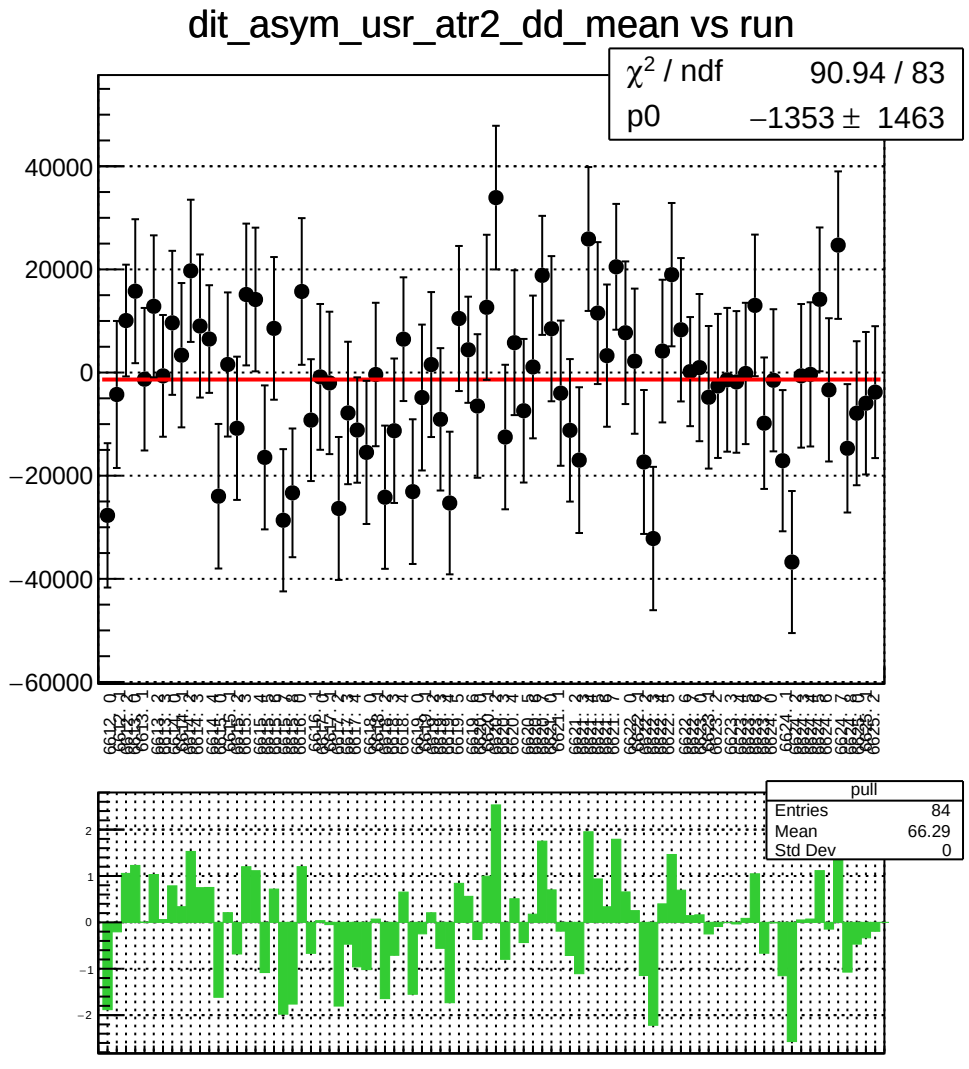

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 86.04 / 83
p0 −1213 ± 1415
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 138.6
Std Dev 0
pull1D
Entries 84
Mean −0.003136
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

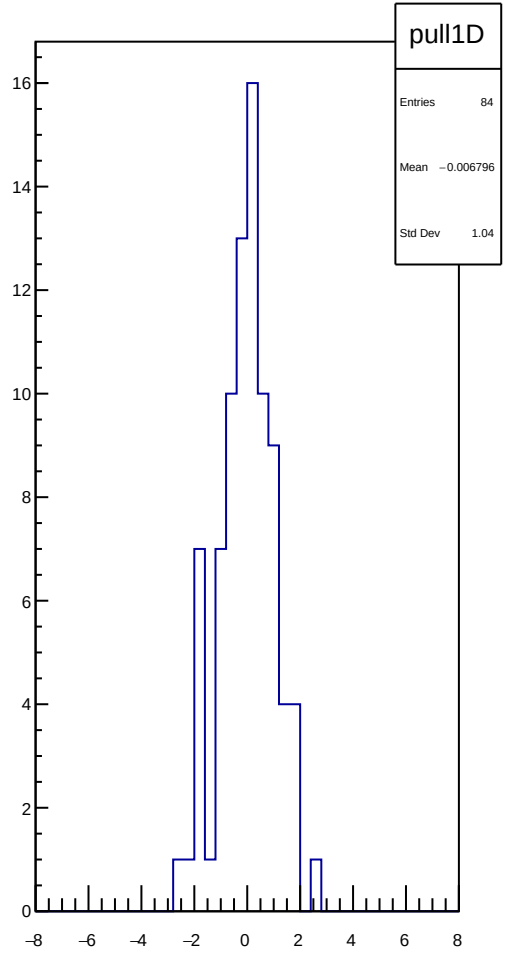

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 214.1 / 83
p0 1278 ± 1
1340
1320
1300
1280
1260
1240

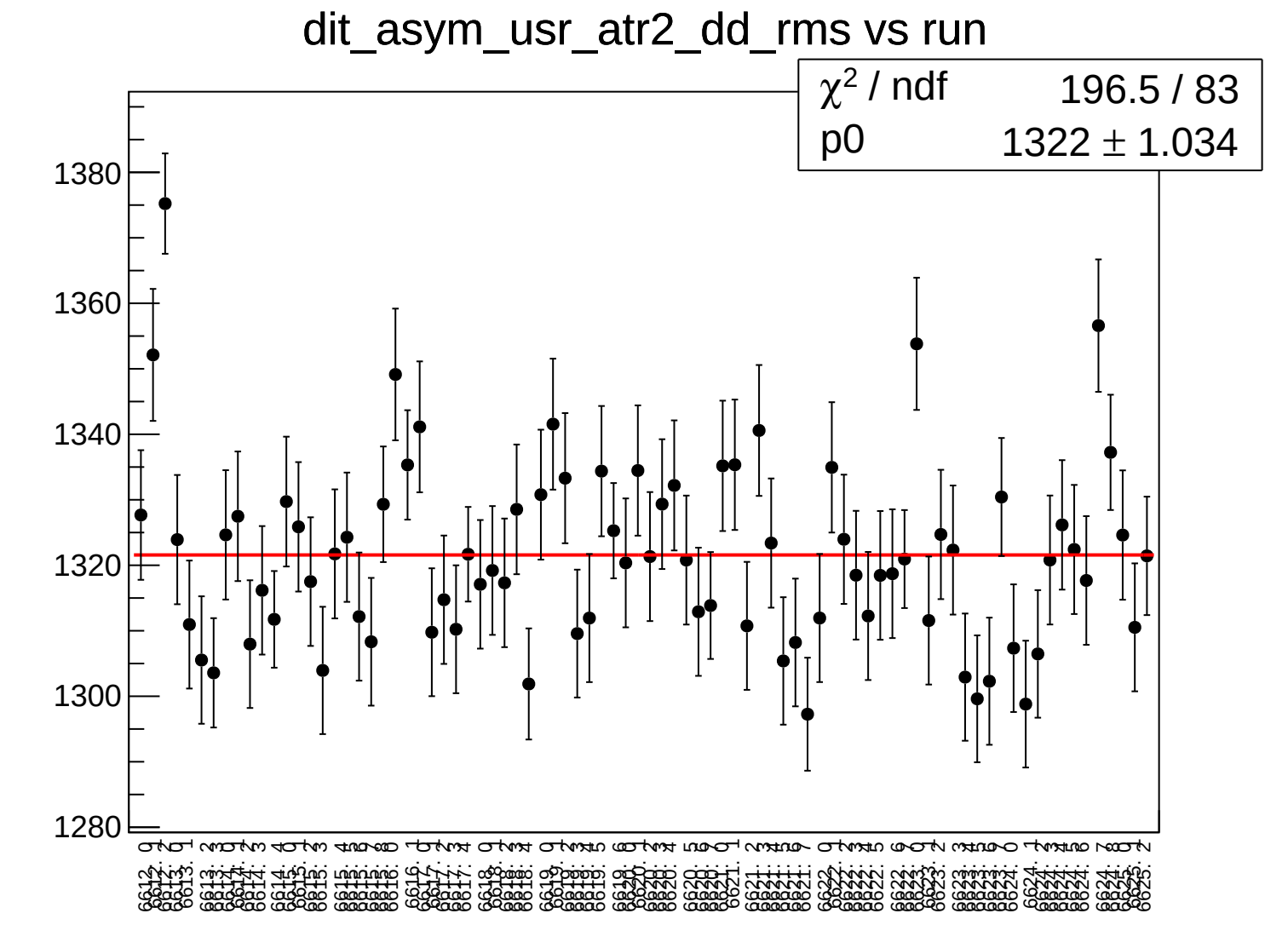

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.51 / 83
p0 −430 ± 3362
100
50
0
−50
−100
pull
Entries 84
Mean −40.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

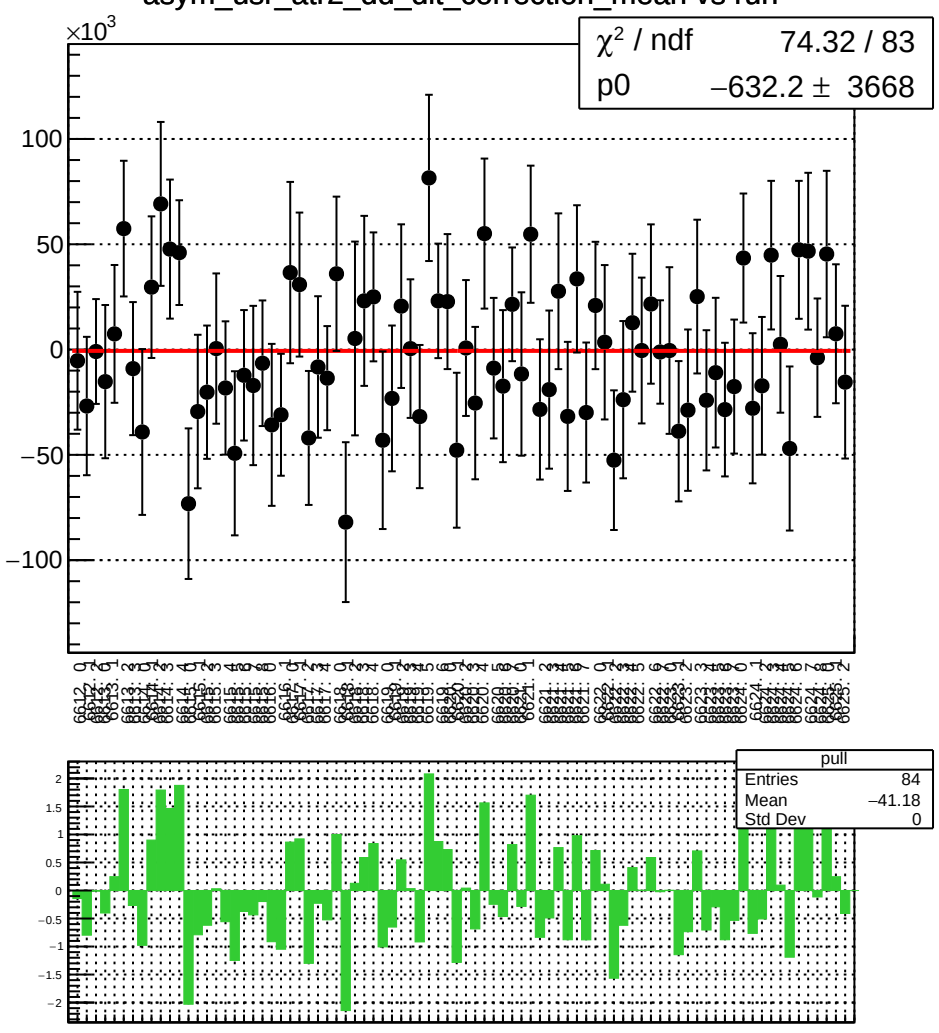

pull1D
Entries 84
Mean −0.01222
Std Dev 0.9418
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

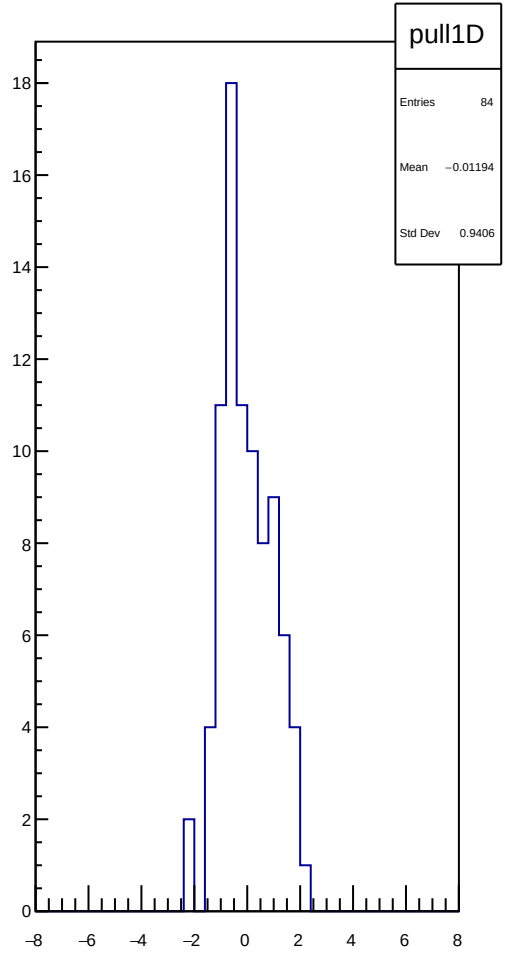

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.097e+04 / 83
p0 3028 ± 2.377
4000
3800
3600
3400
3200
3000
2800
2600

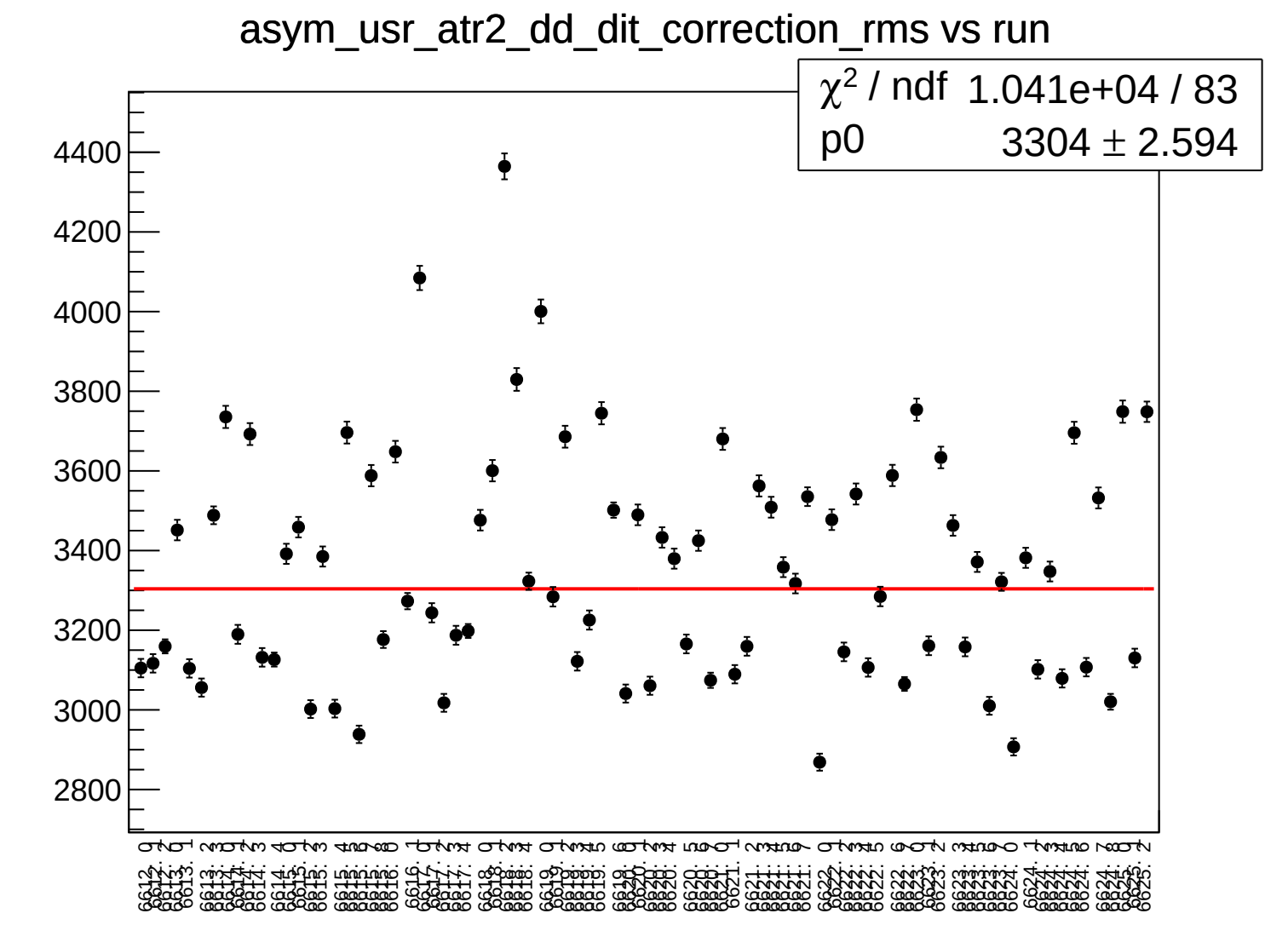

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 90.94 / 83
p0 −1353 ± 1463
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 66.29
Std Dev 0
2
1
0
−1
−2

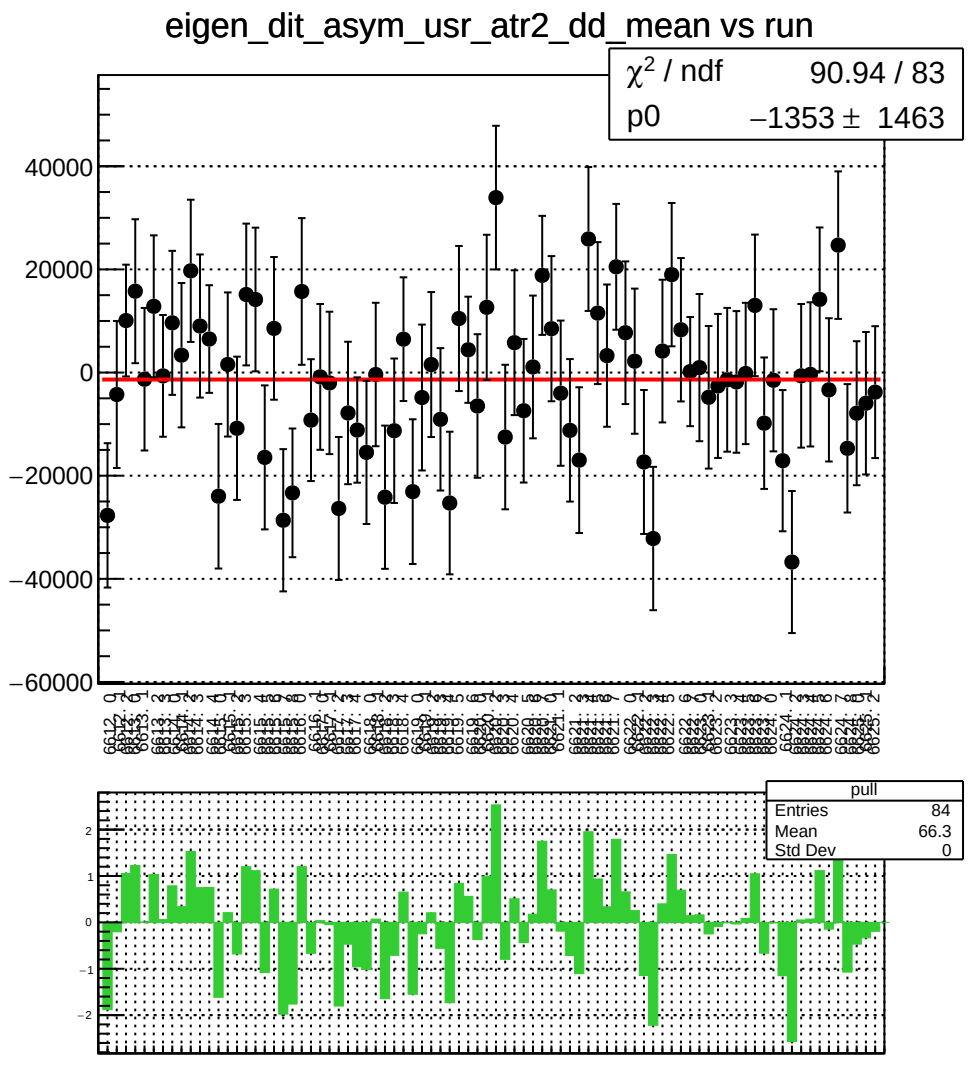

pull1D
Entries 84
Mean −0.006796
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

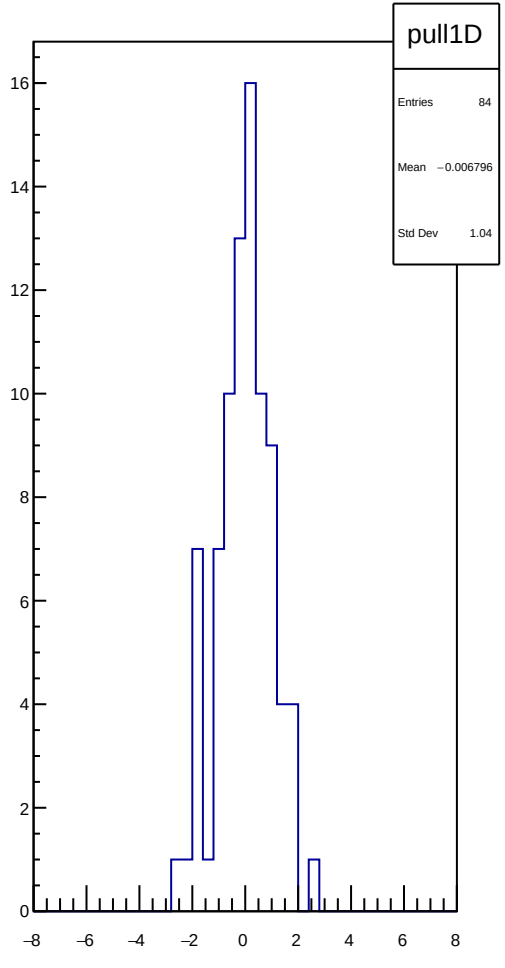

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 196.5 / 83
p0 1322 ± 1.034
1380
1360
1340
1320
1300
1280

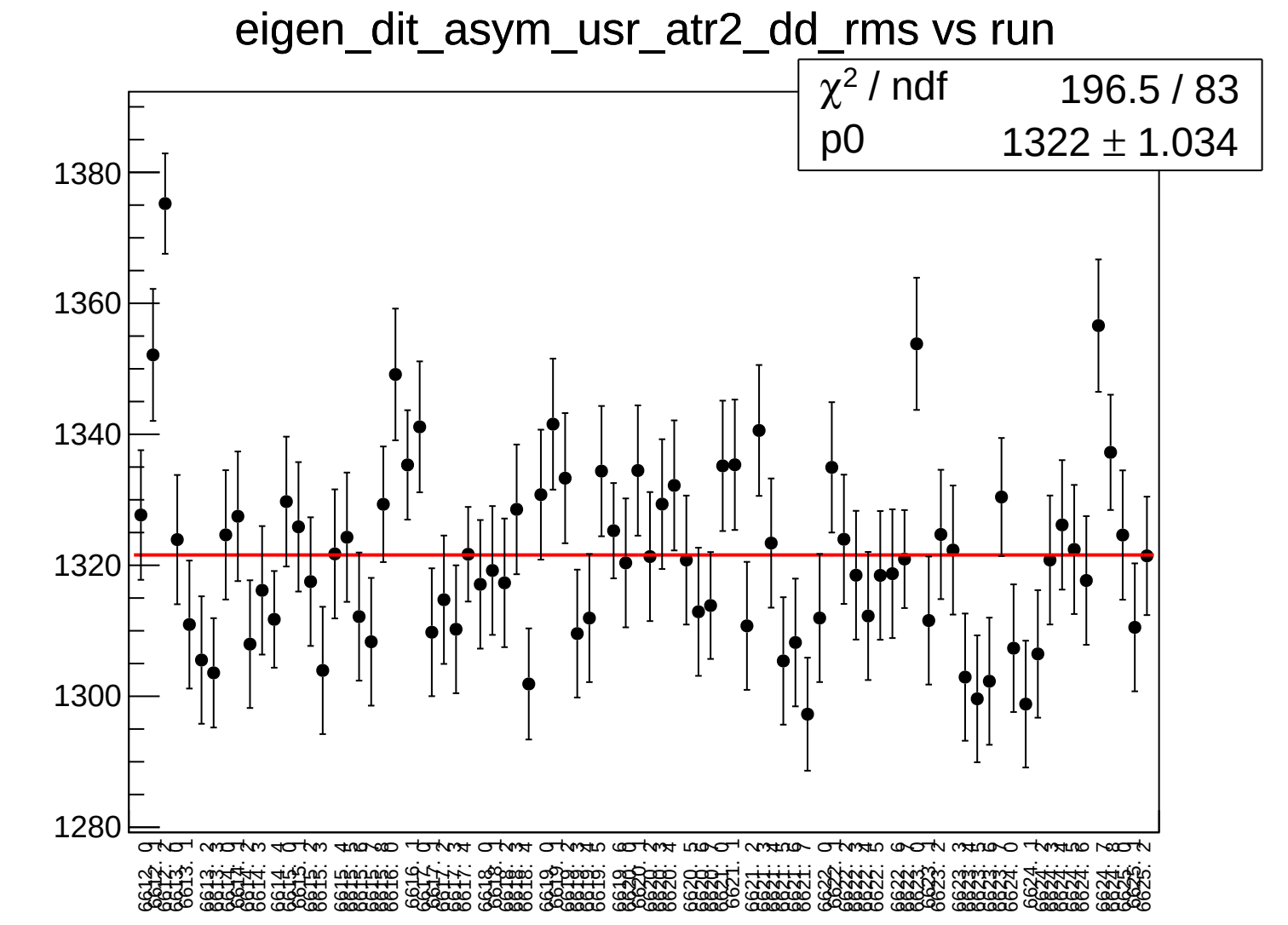

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 74.32 / 83
p0 −632.2 ± 3668
100
50
0
−50
−100
pull
Entries 84
Mean −41.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

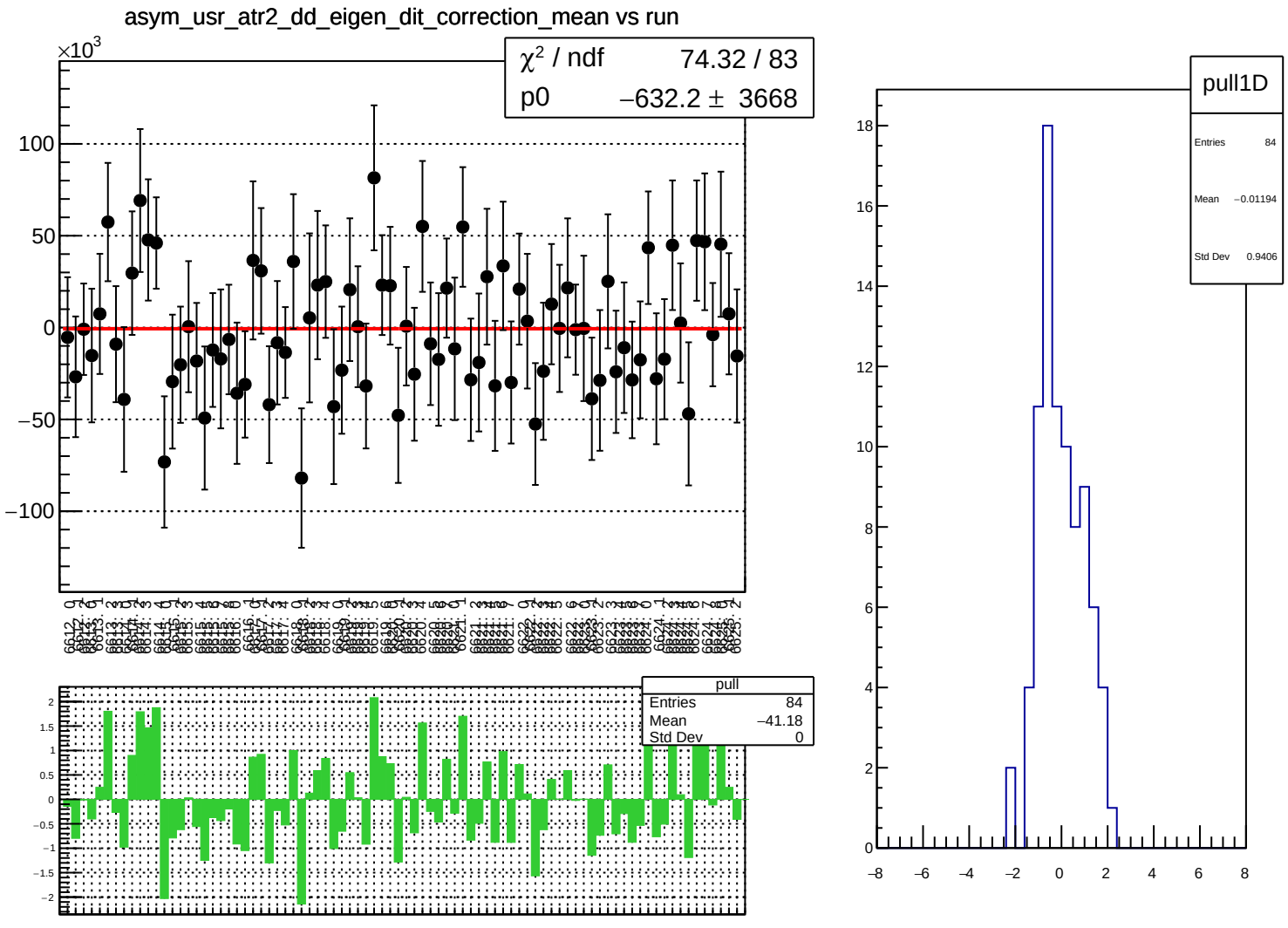

pull1D
Entries 84
Mean −0.01194
Std Dev 0.9406
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

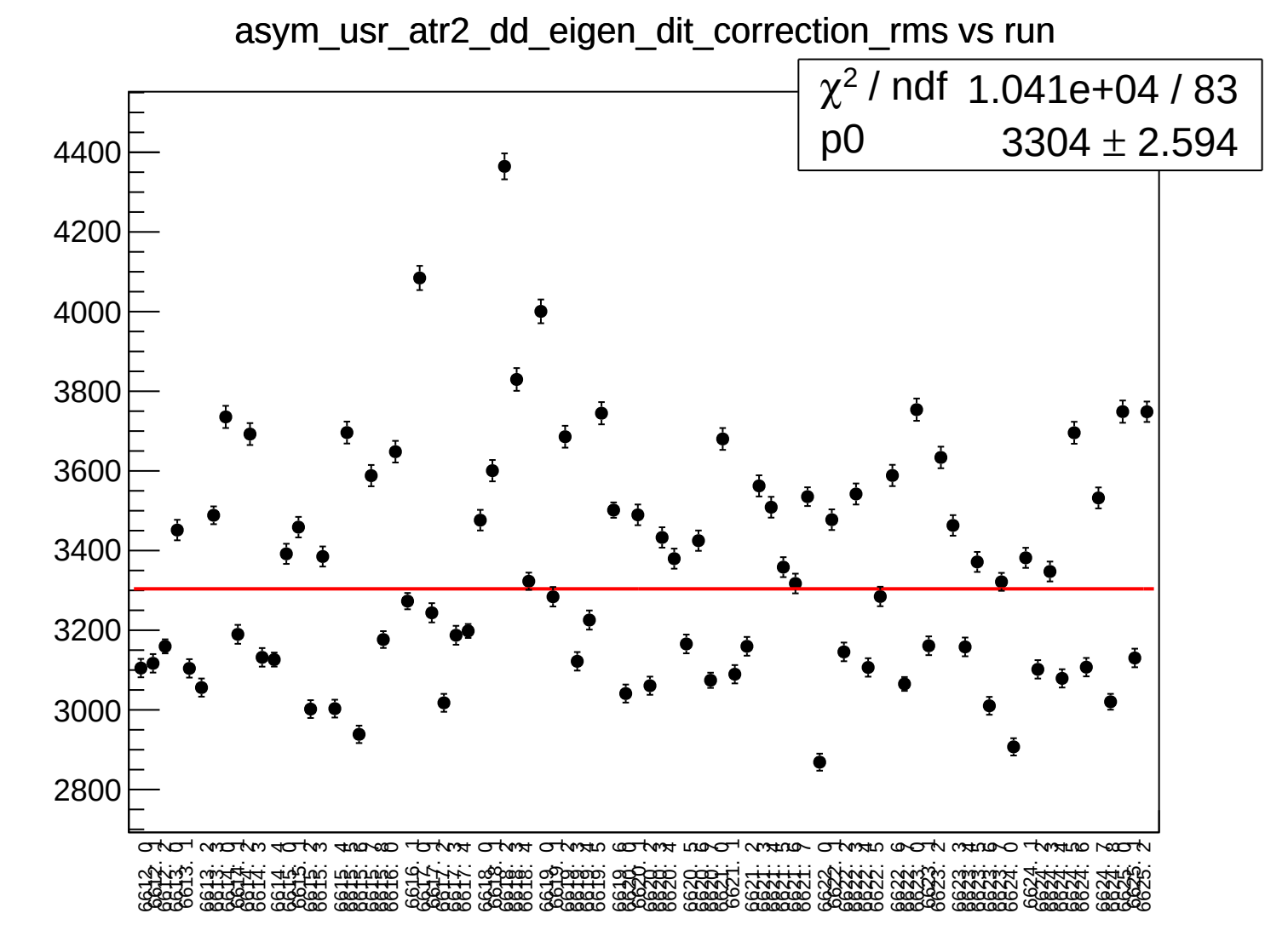

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 1.041e+04 / 83
p0 3304 ± 2.594
4400
4200
4000
3800
3600
3400
3200
3000
2800

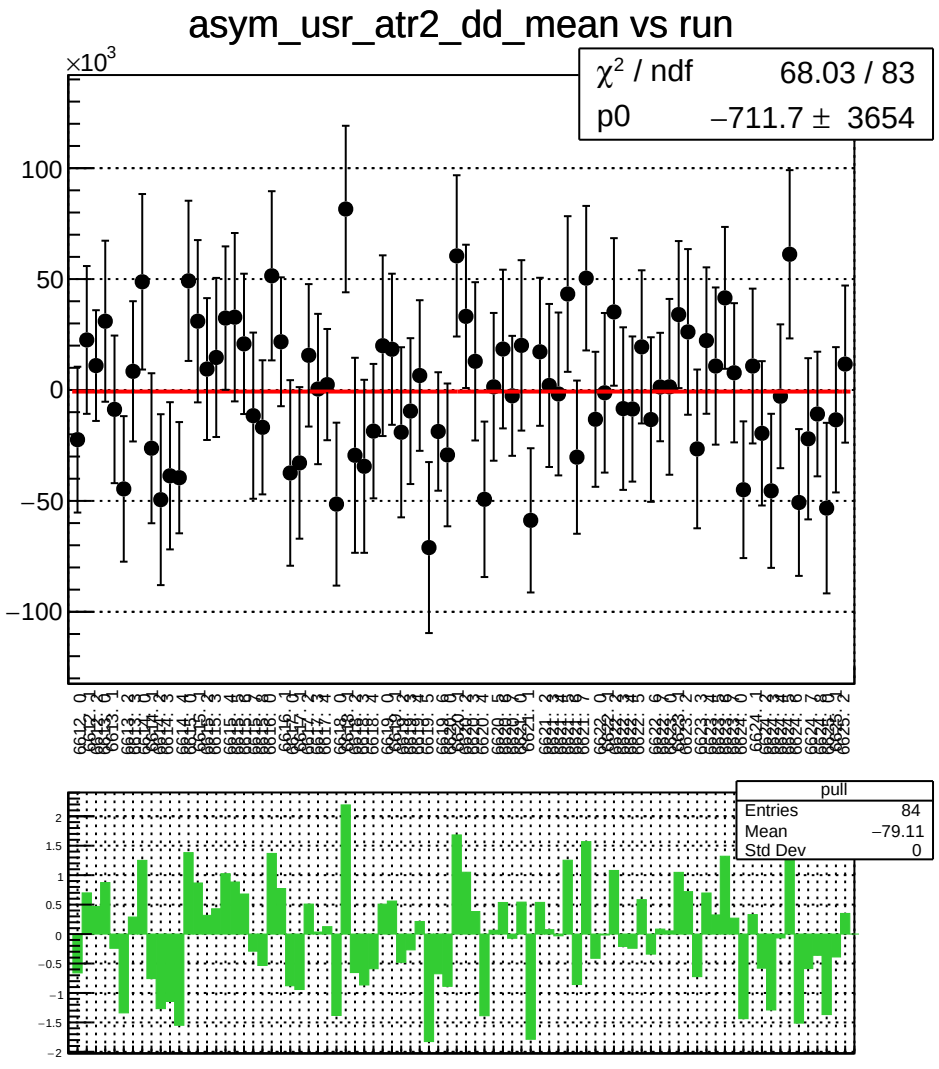

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 90.94 / 83
p0 −1353 ± 1463
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 66.3
Std Dev 0
2
1
0
−1
−2

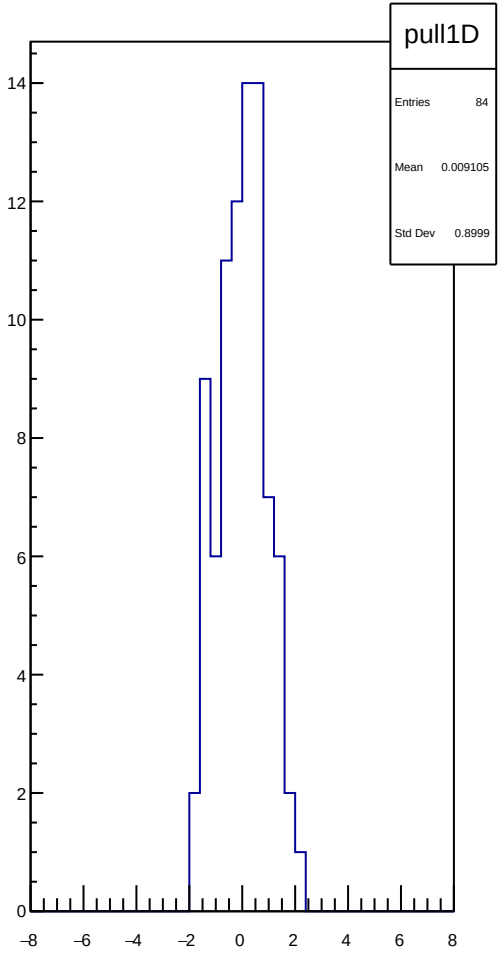

pull1D
Entries 84
Mean −0.006796
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

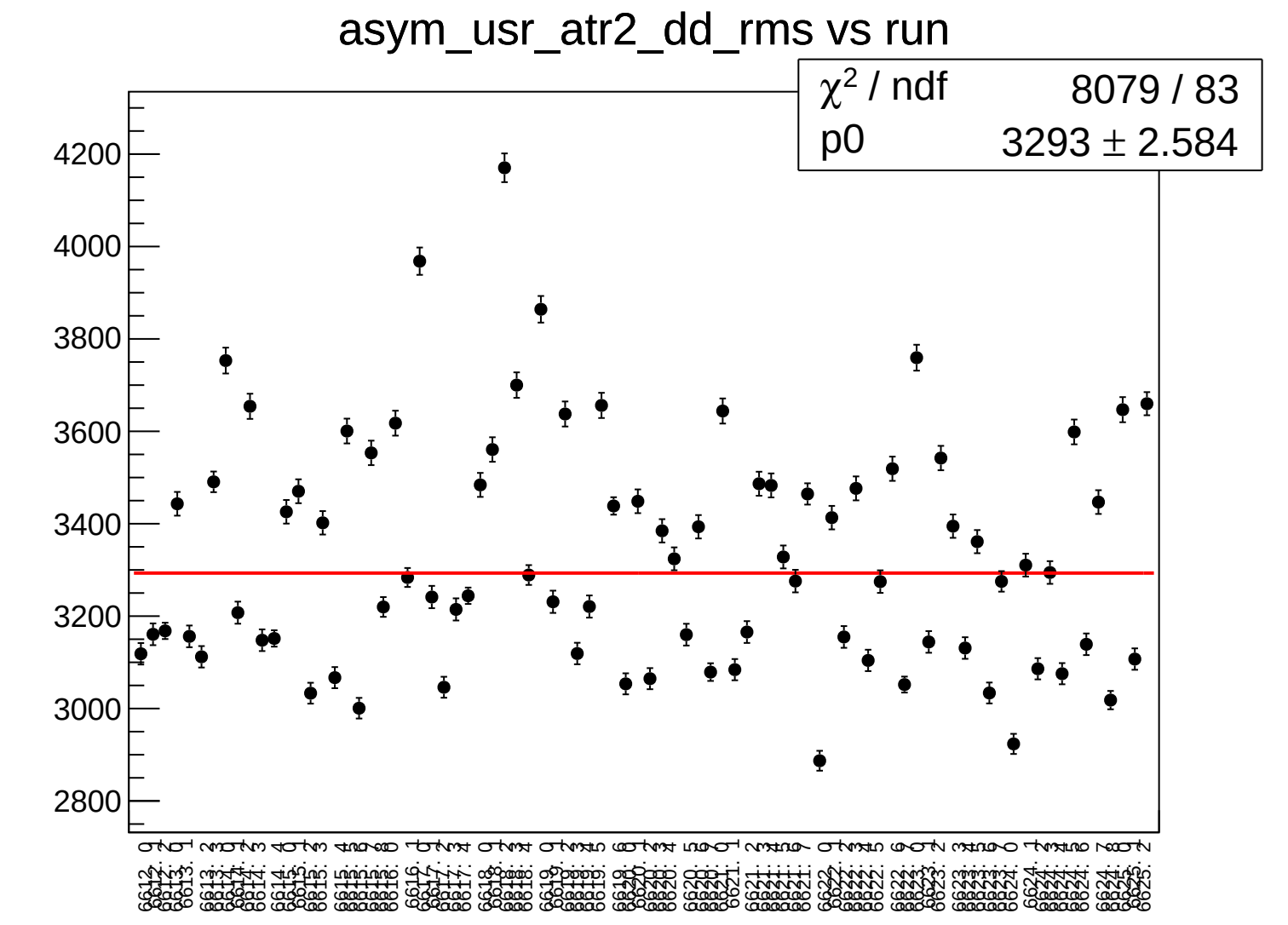

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 196.5 / 83
p0 1322 ± 1.034
1380
1360
1340
1320
1300
1280

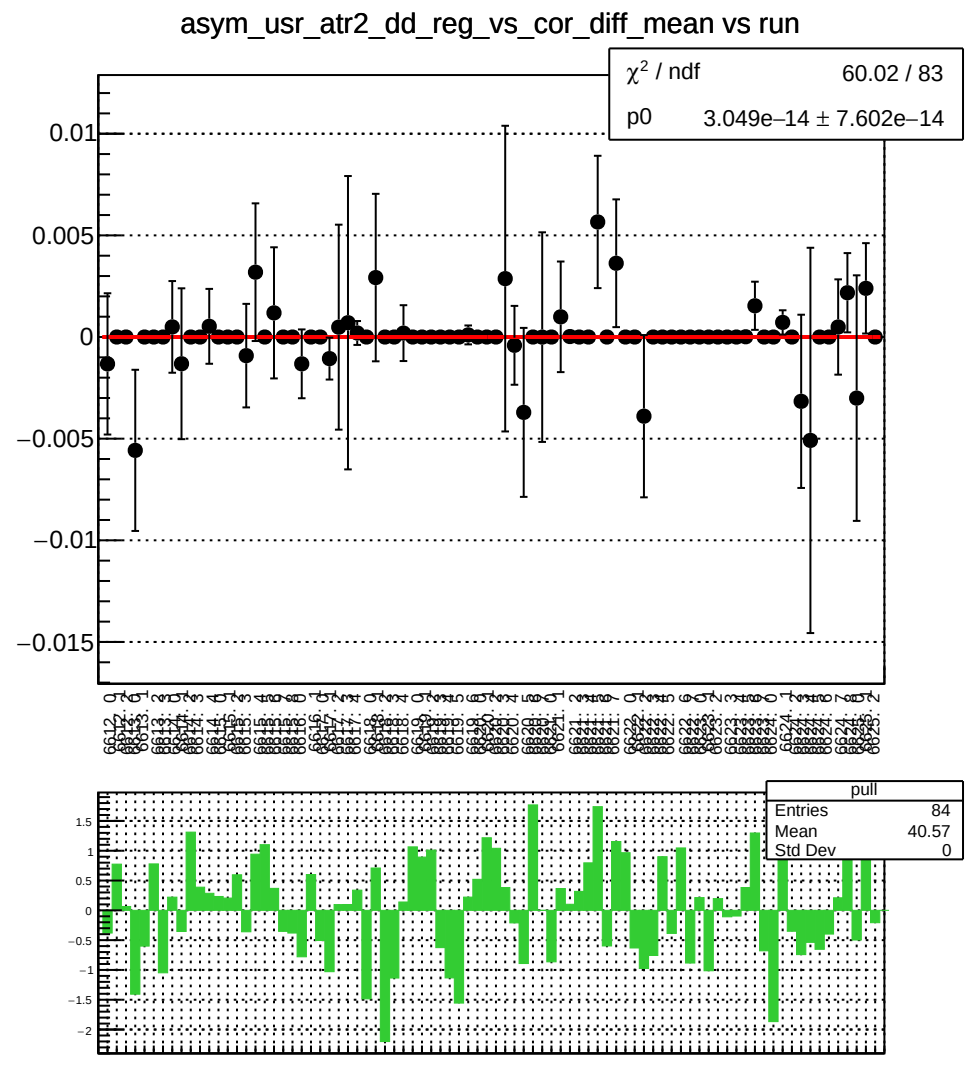

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.32 / 83
p0 −632.2 ± 3668
×10³
100
50
0
−50
−100
pull
Entries 84
Mean −41.18
Std Dev 0
pull1D
Entries 84
Mean −0.01194
Std Dev 0.9406

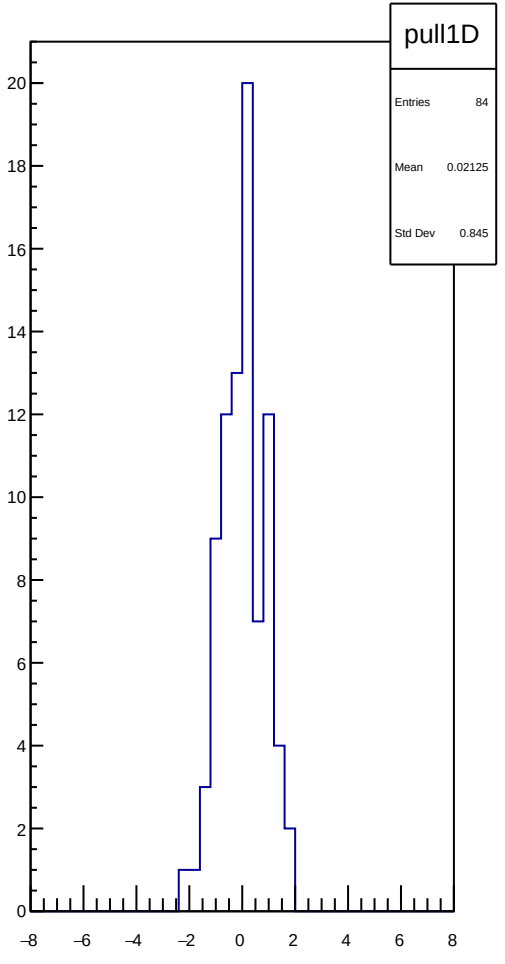

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.041e+04 / 83
p0 3304 ± 2.594
4400
4200
4000
3800
3600
3400
3200
3000
2800

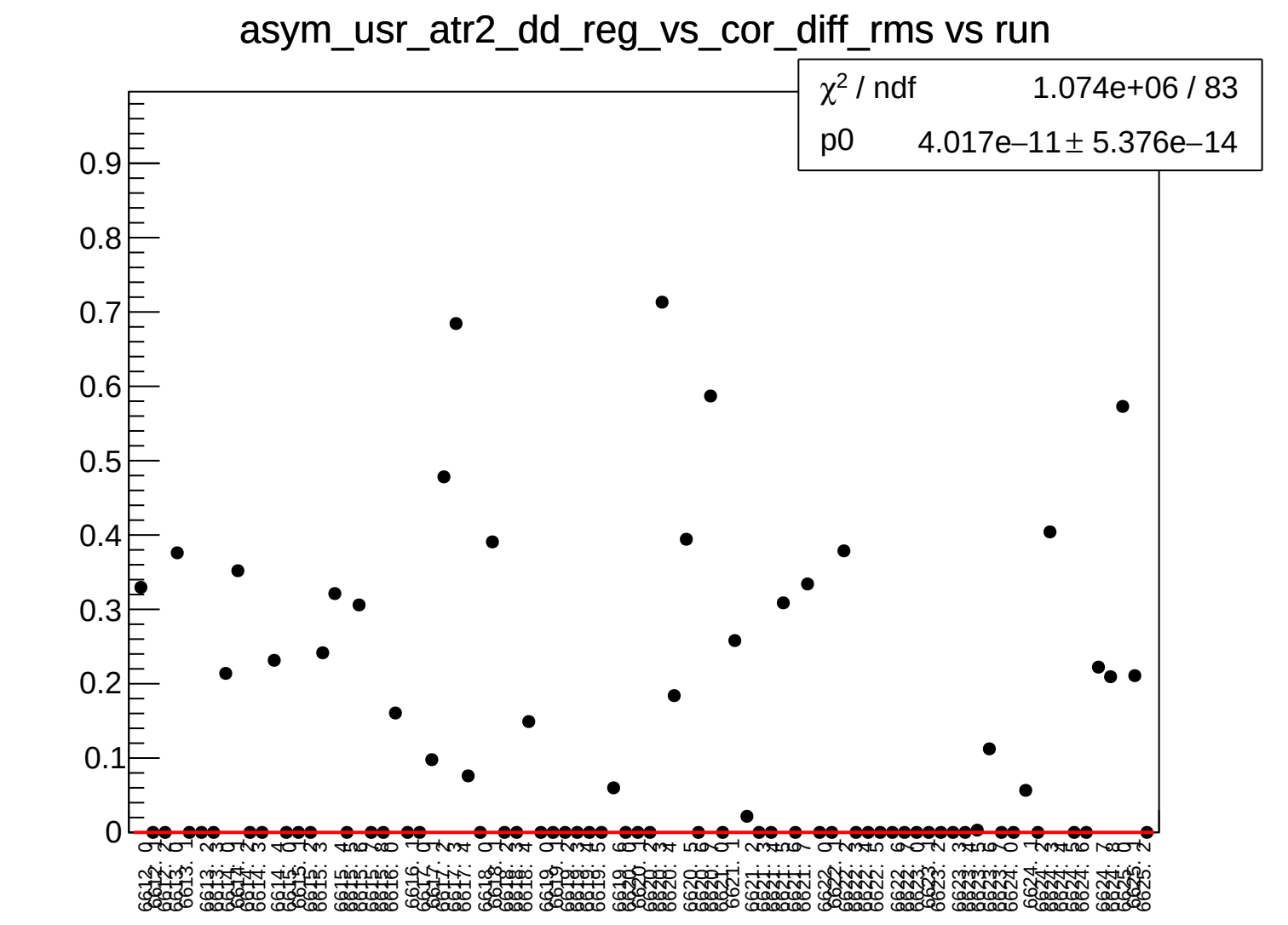

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 68.03 / 83
p0 −711.7 ± 3654
100
50
0
−50
−100
pull
Entries 84
Mean −79.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

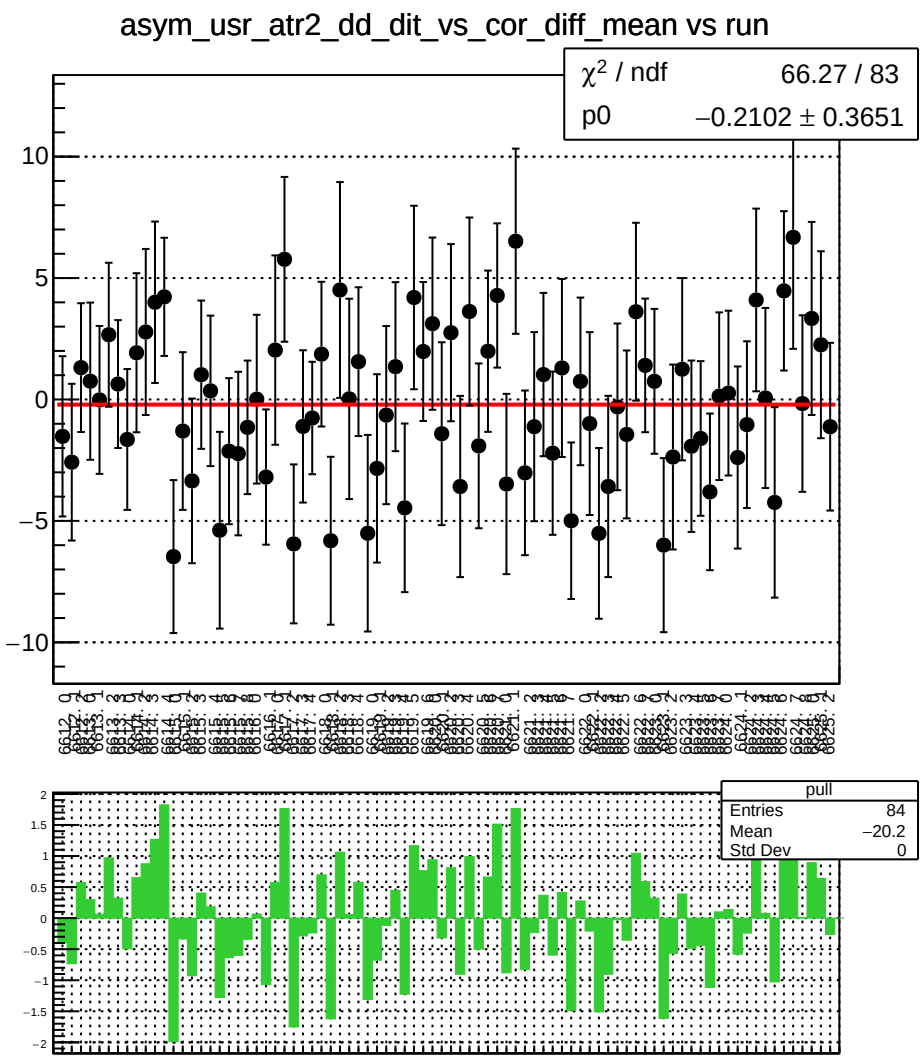

pull1D
Entries 84
Mean 0.009105
Std Dev 0.8999
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

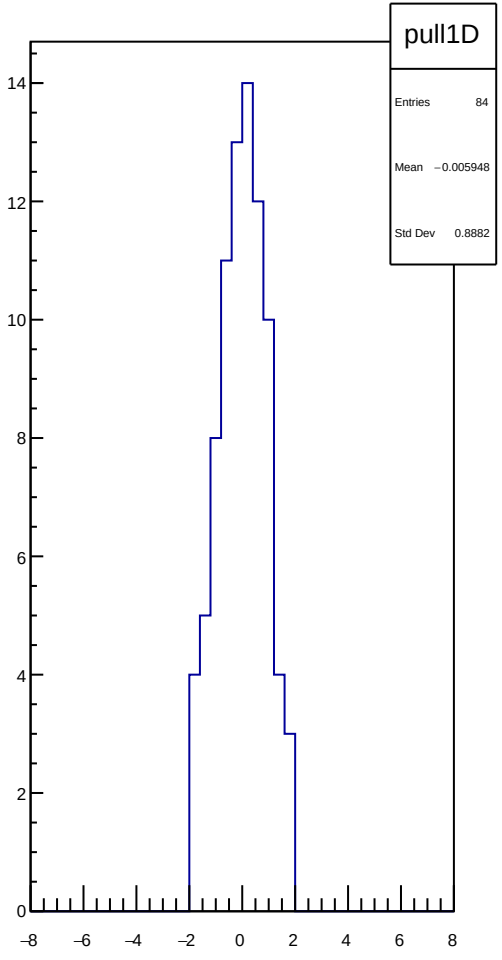

asym_usr_atr2_dd_rms vs run
χ² / ndf 8079 / 83
p0 3293 ± 2.584
4200
4000
3800
3600
3400
3200
3000
2800

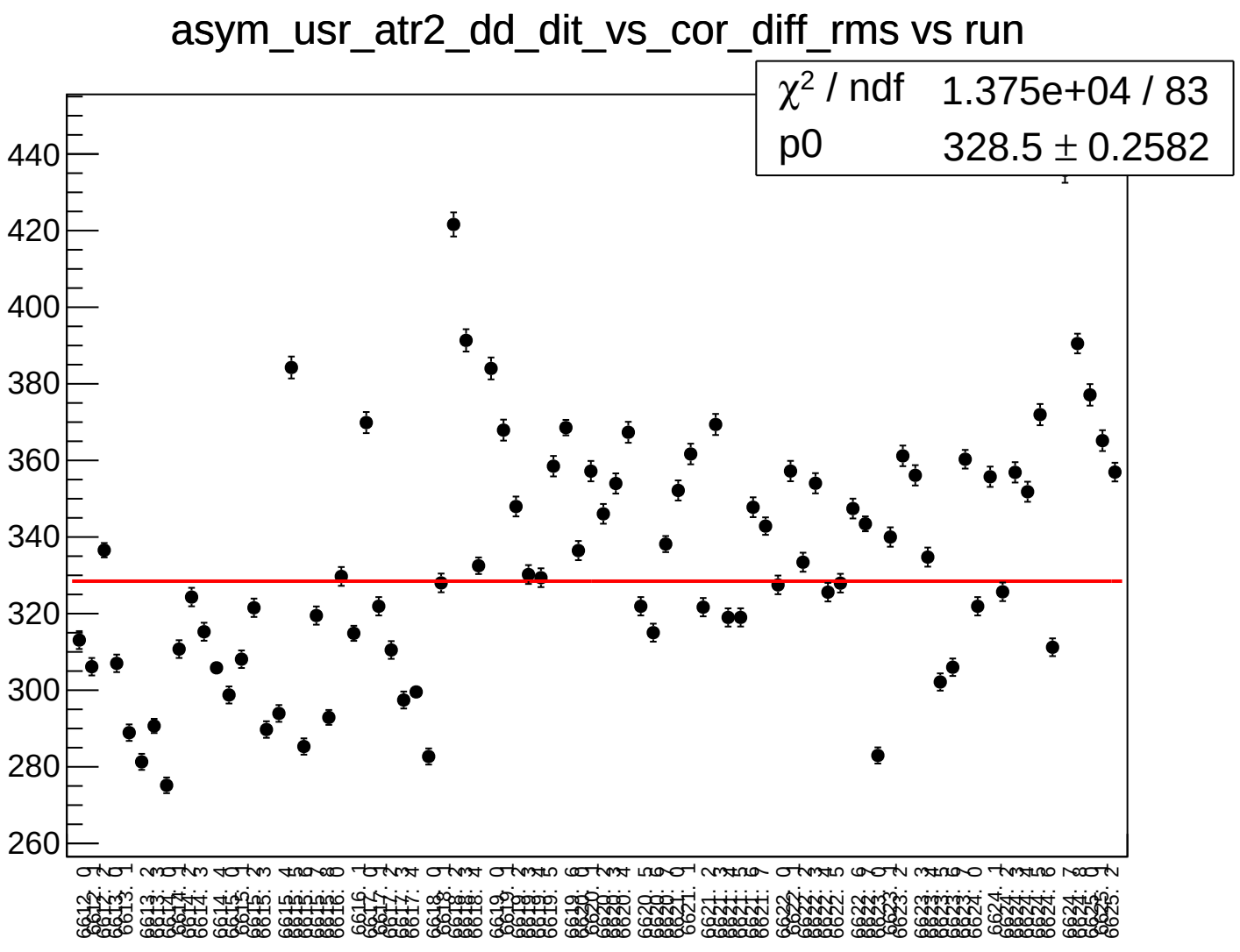

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 60.02 / 83
p0 3.049e−14 ± 7.602e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 84
Mean 40.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

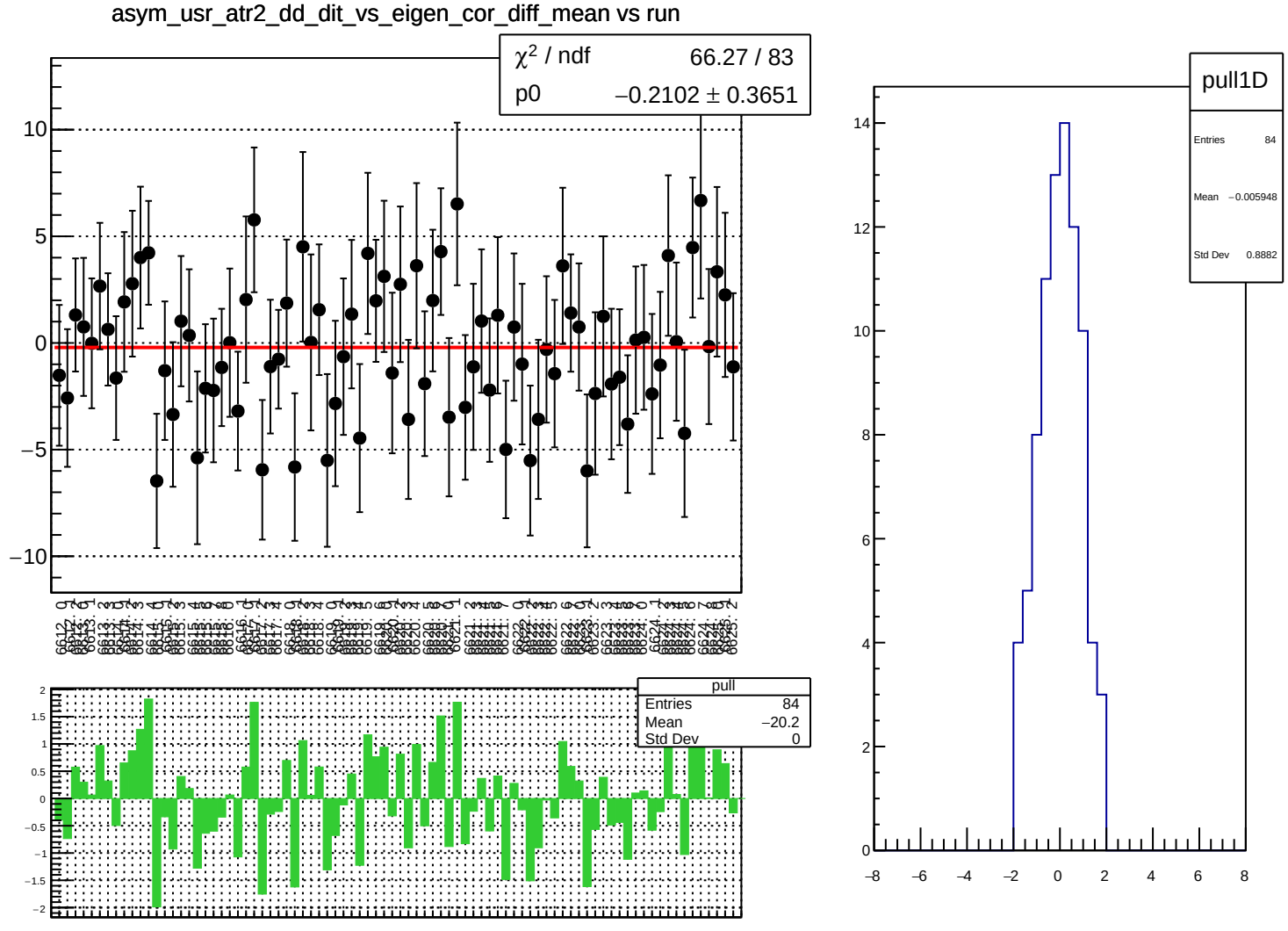

pull1D
Entries 84
Mean 0.02125
Std Dev 0.845
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

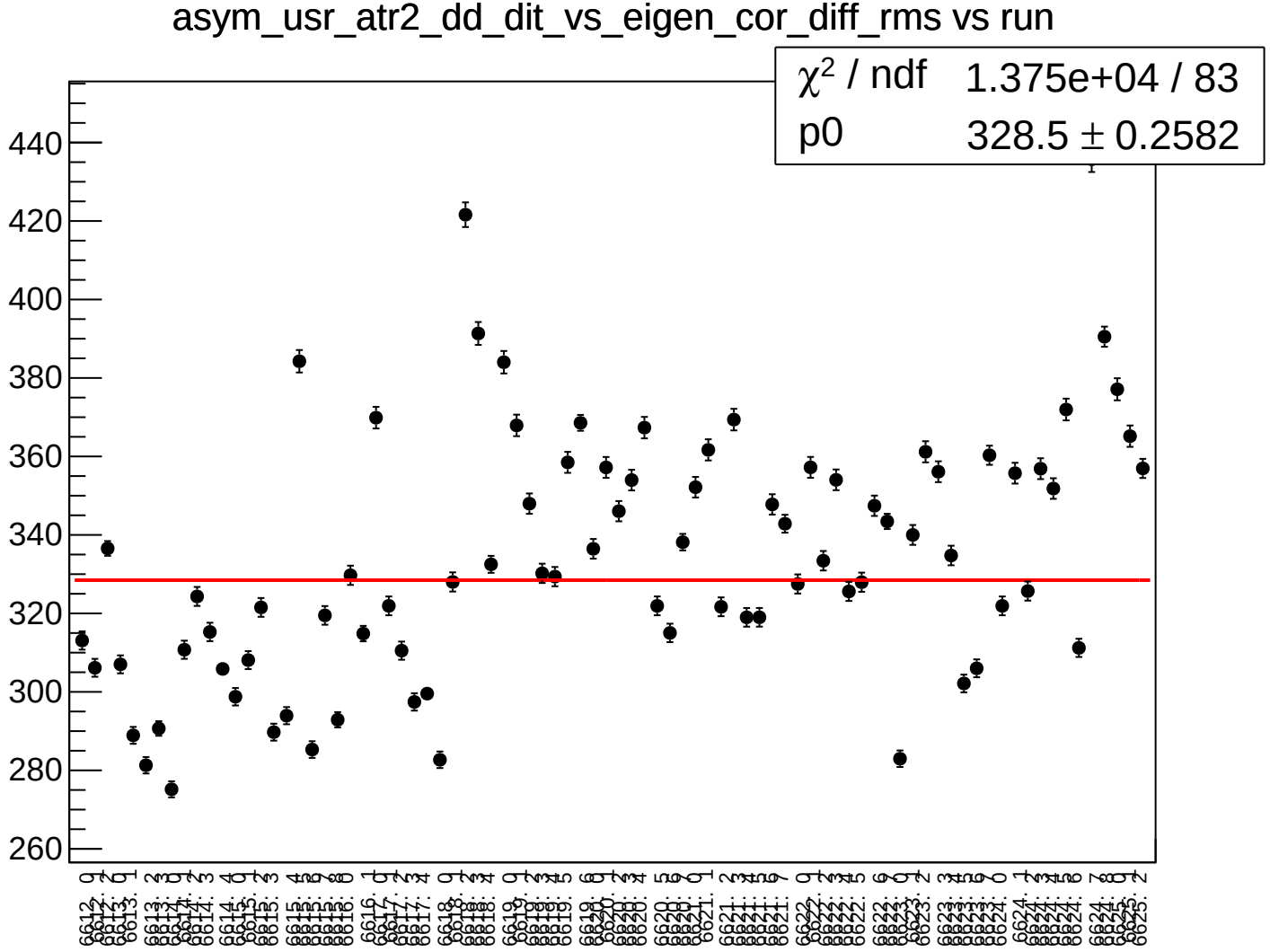

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.074e+06 / 83
p0 4.017e−11 ± 5.376e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

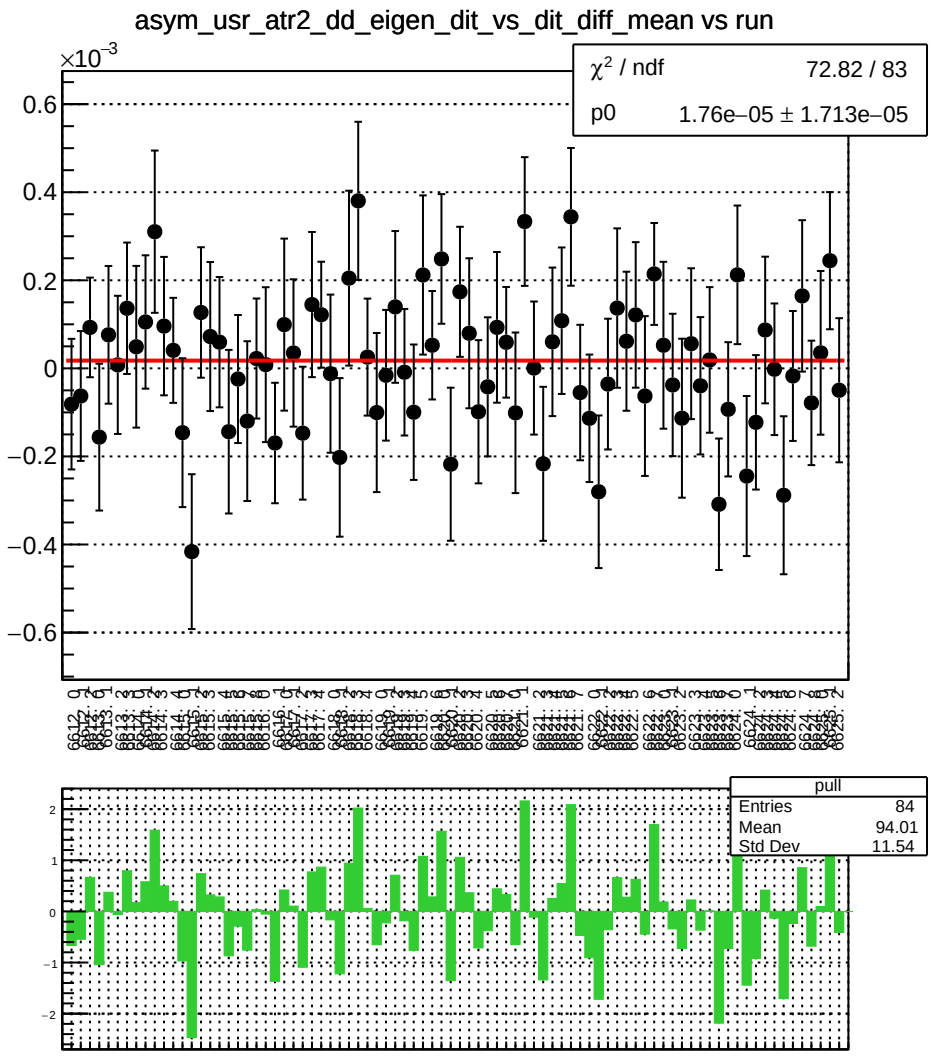

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 66.27 / 83
p0 −0.2102 ± 0.3651
pull
Entries 84
Mean −20.2
Std Dev 0

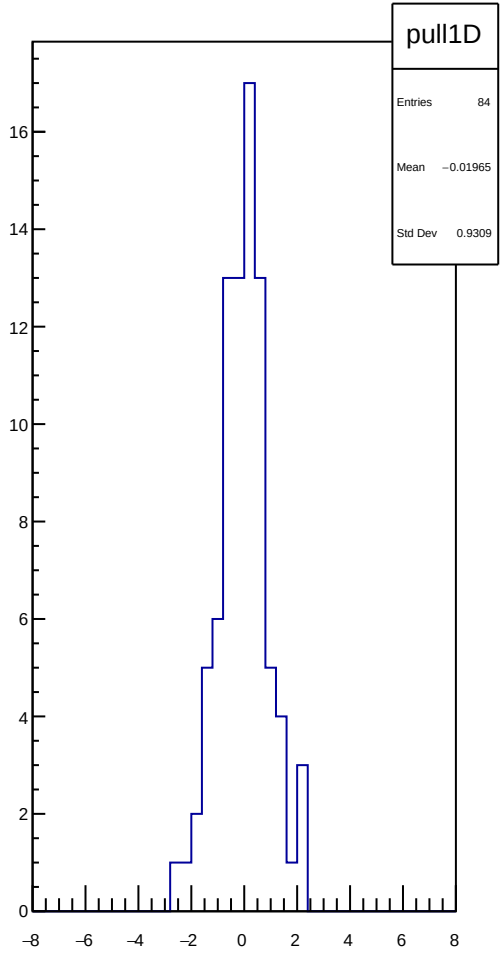

pull1D
Entries 84
Mean −0.005948
Std Dev 0.8882

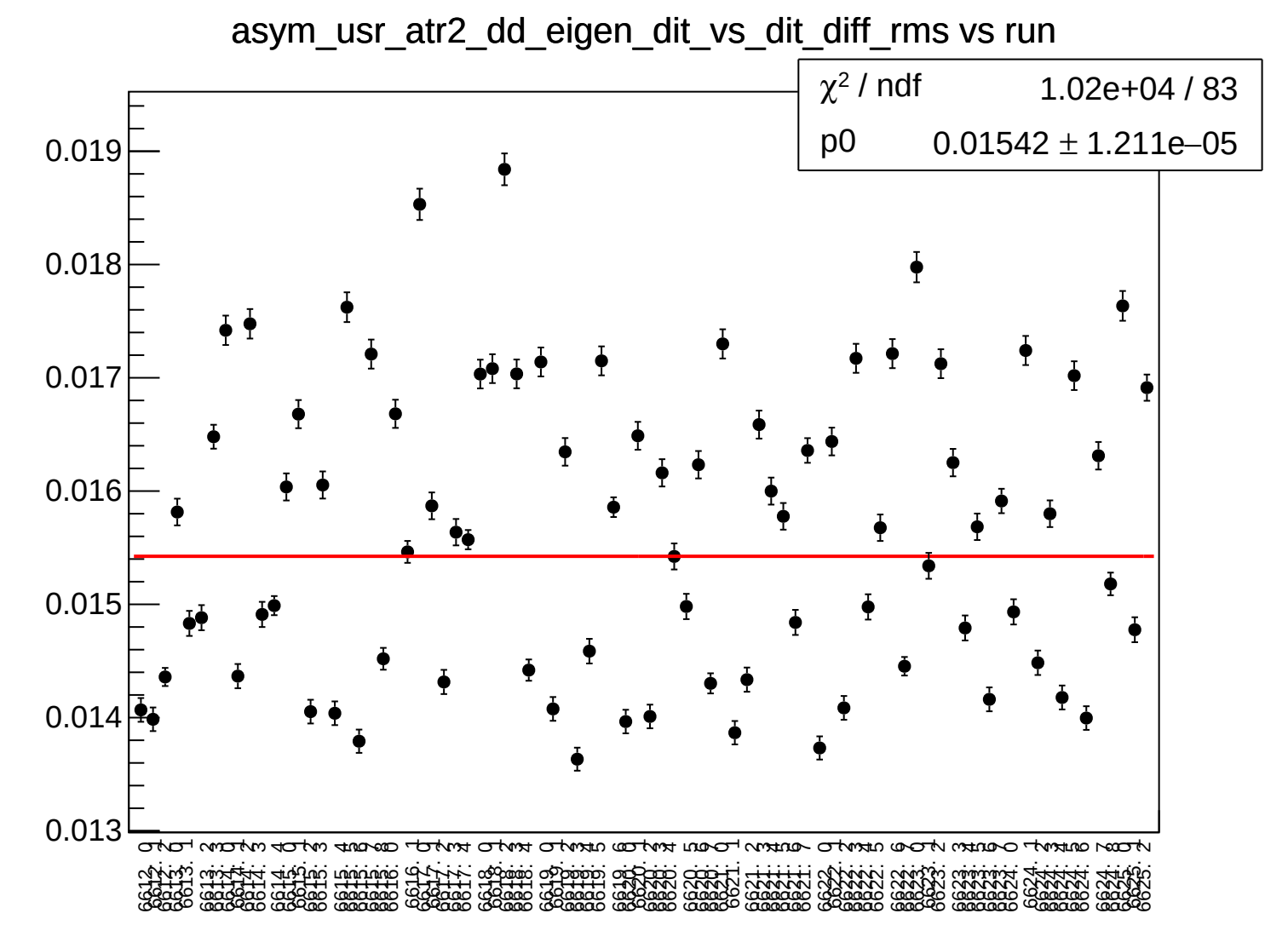

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.375e+04 / 83
p0 328.5 ± 0.2582
440
420
400
380
360
340
320
300
280
260

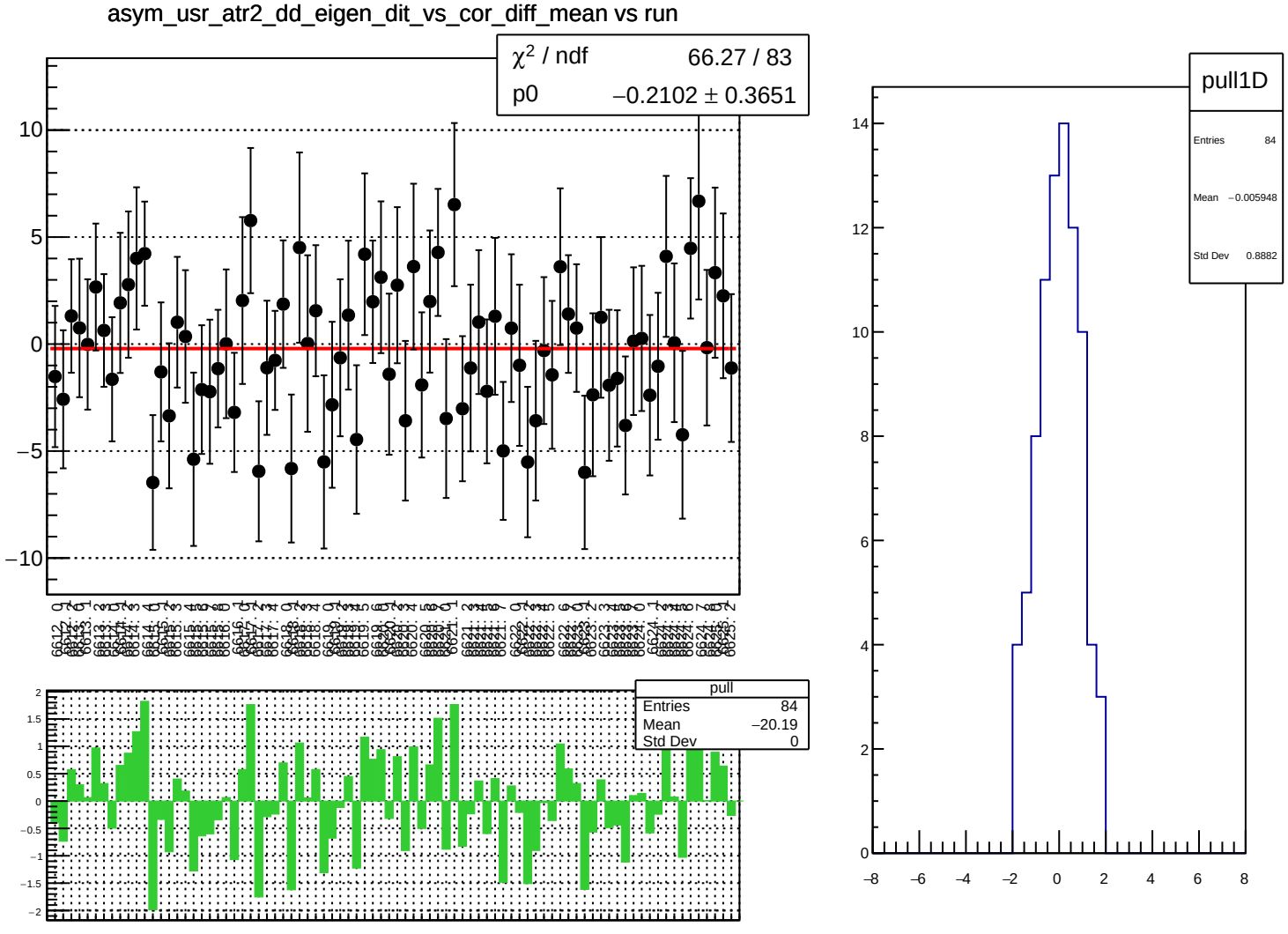

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.27 / 83
p0 −0.2102 ± 0.3651
pull
Entries 84
Mean −20.2
Std Dev 0
pull1D
Entries 84
Mean −0.005948
Std Dev 0.8882

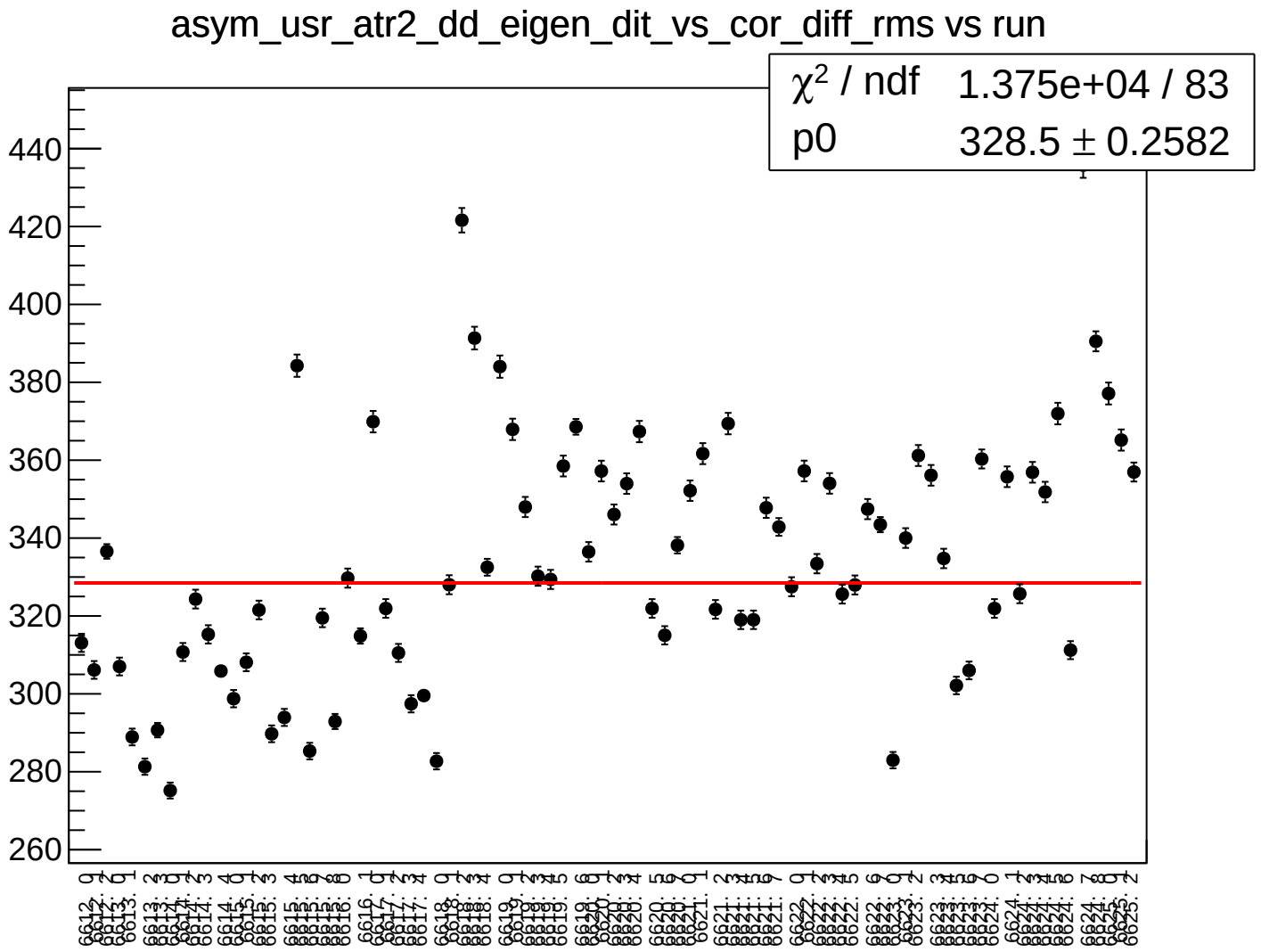

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.375e+04 / 83
p0 328.5 ± 0.2582
440
420
400
380
360
340
320
300
280
260

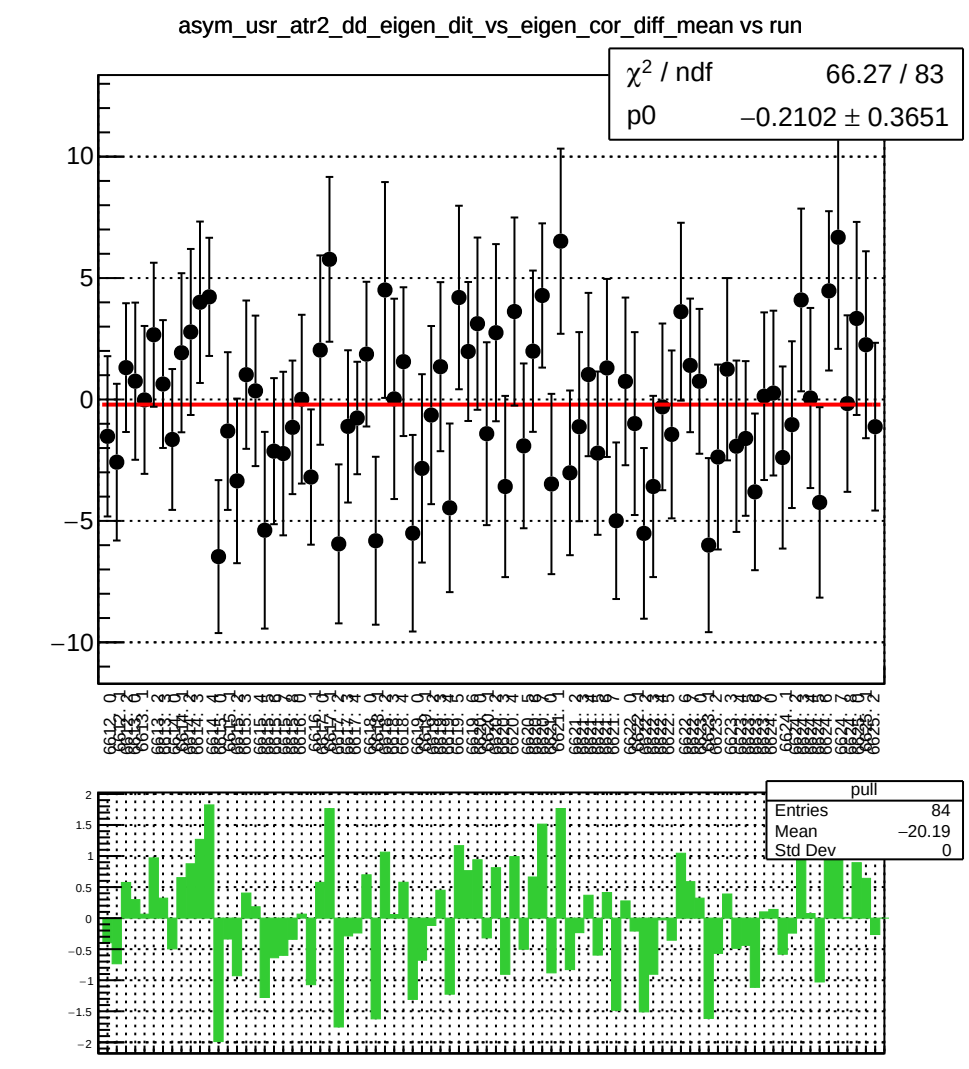

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.82 / 83
p0 1.76e−05 ± 1.713e−05
pull
Entries 84
Mean 94.01
Std Dev 11.54

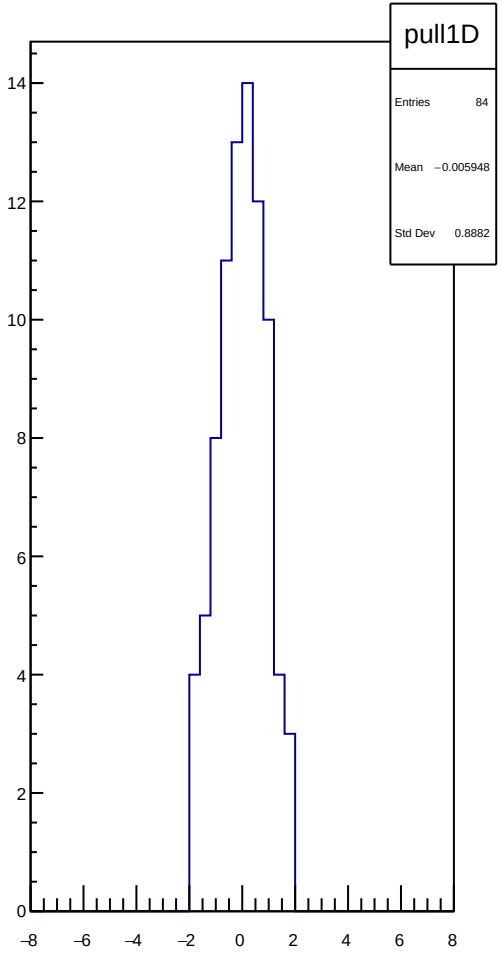

pull1D
Entries 84
Mean −0.01965
Std Dev 0.9309

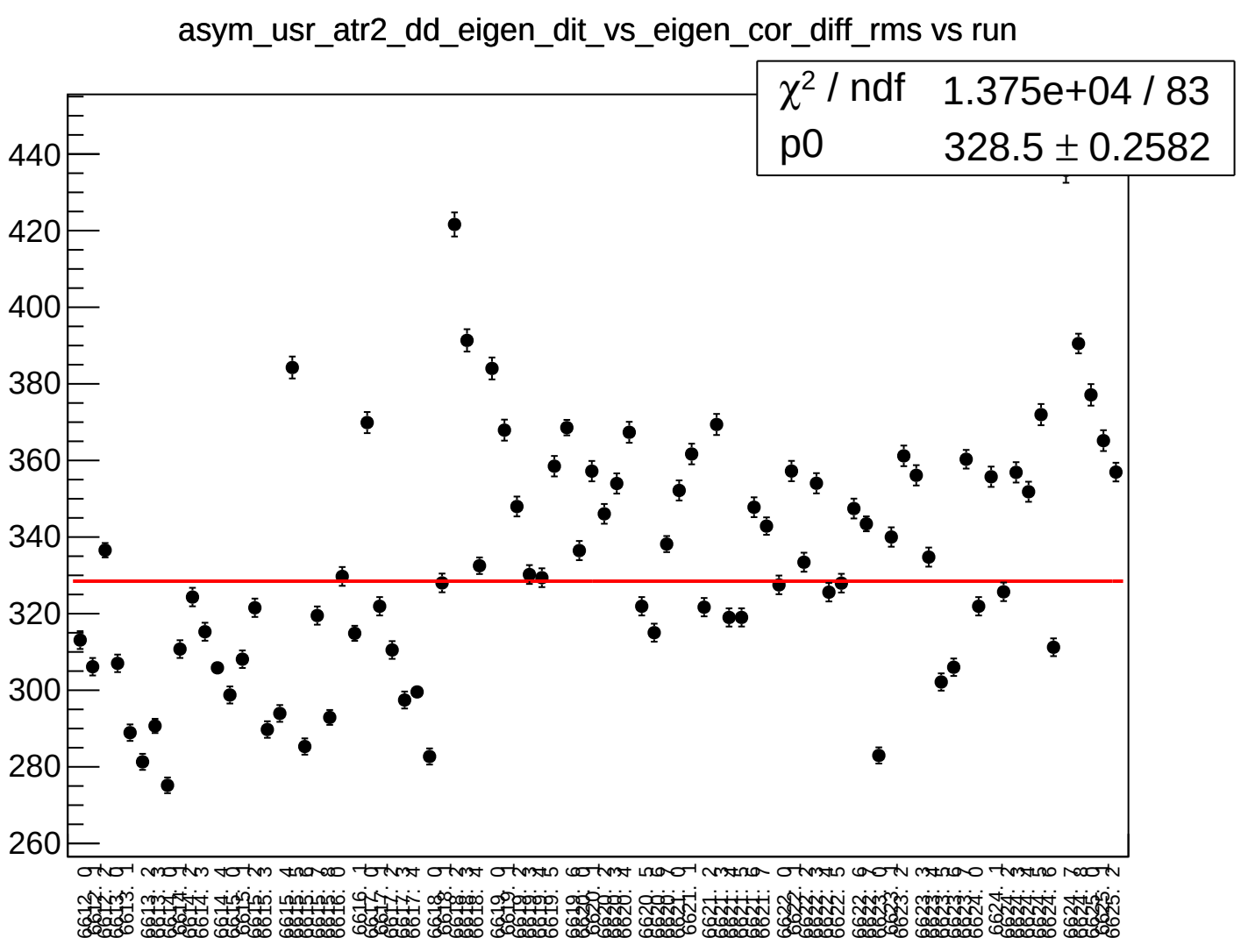

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.02e+04 / 83
p0 0.01542 ± 1.211e–05
0.019
0.018
0.017
0.016
0.015
0.014
0.013

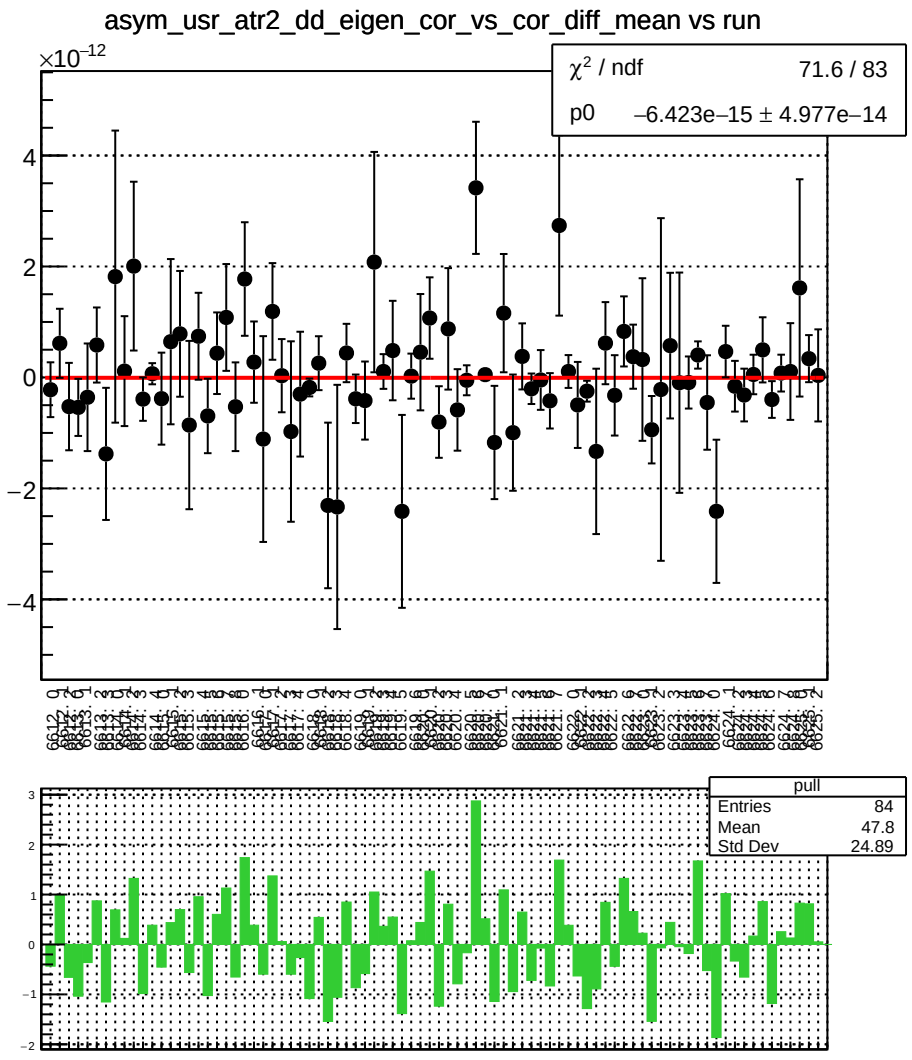

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.27 / 83
p0 −0.2102 ± 0.3651
pull
Entries 84
Mean −20.19
Std Dev 0
pull1D
Entries 84
Mean −0.005948
Std Dev 0.8882

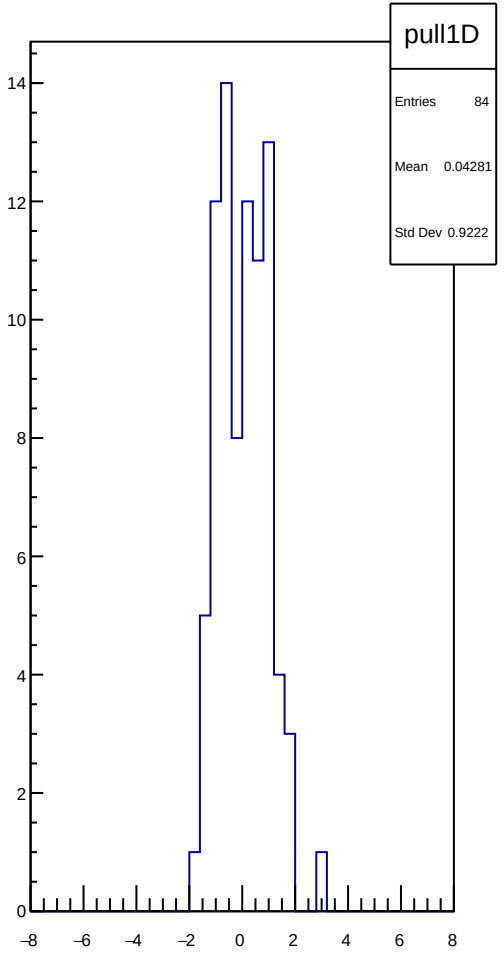

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.375e+04 / 83
p0 328.5 ± 0.2582
440
420
400
380
360
340
320
300
280
260

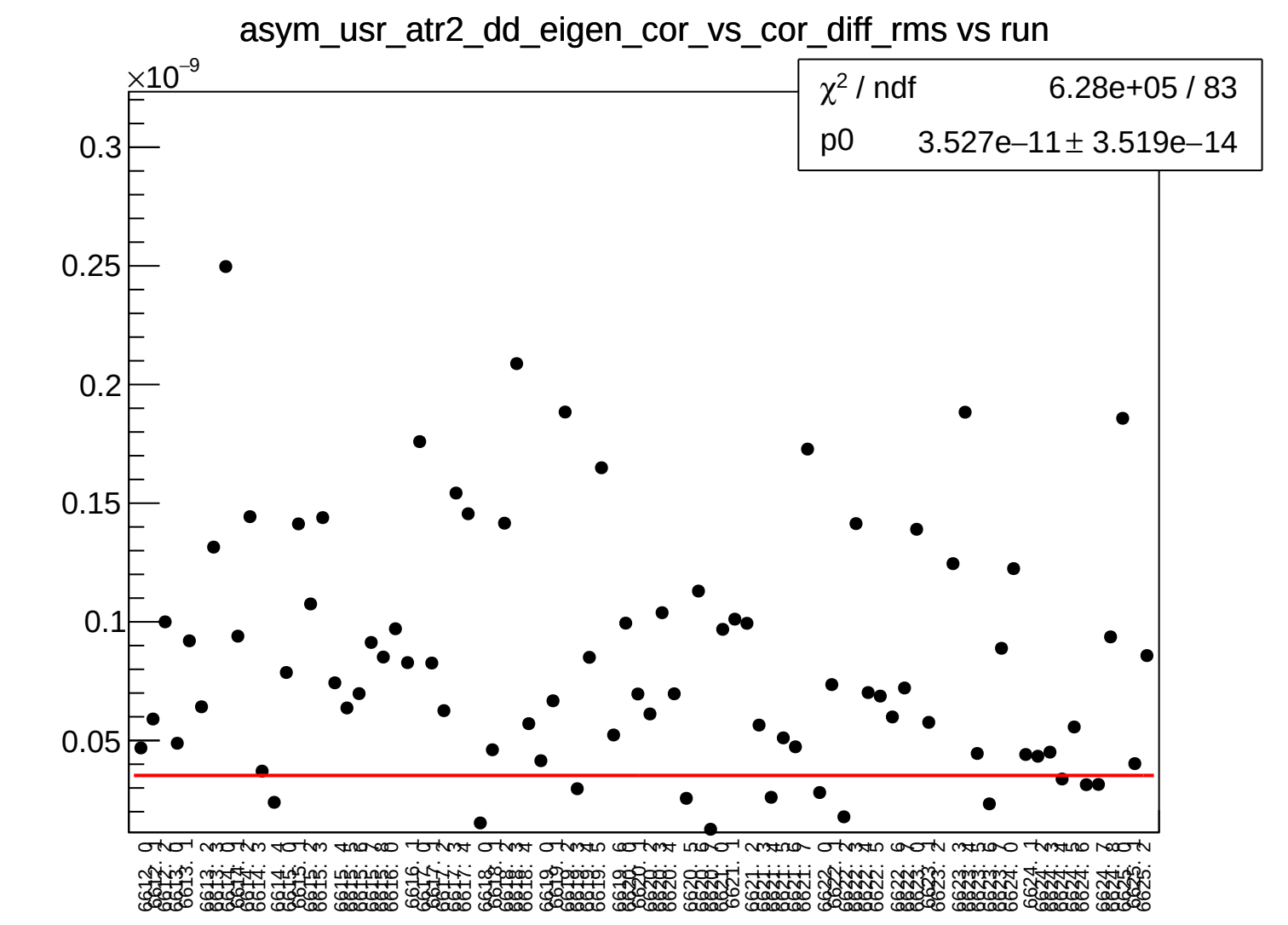

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.27 / 83
p0 −0.2102 ± 0.3651
pull
Entries 84
Mean −20.19
Std Dev 0

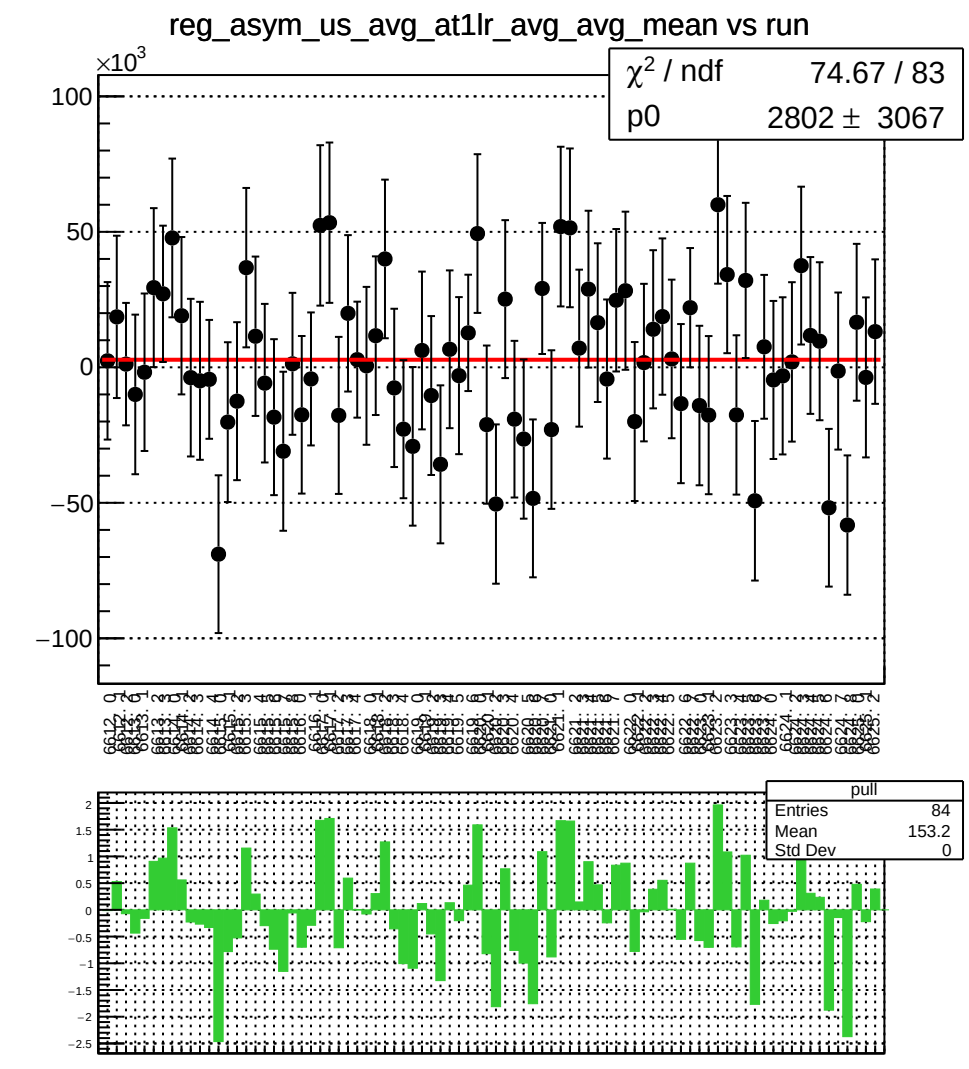

pull1D
Entries 84
Mean −0.005948
Std Dev 0.8882

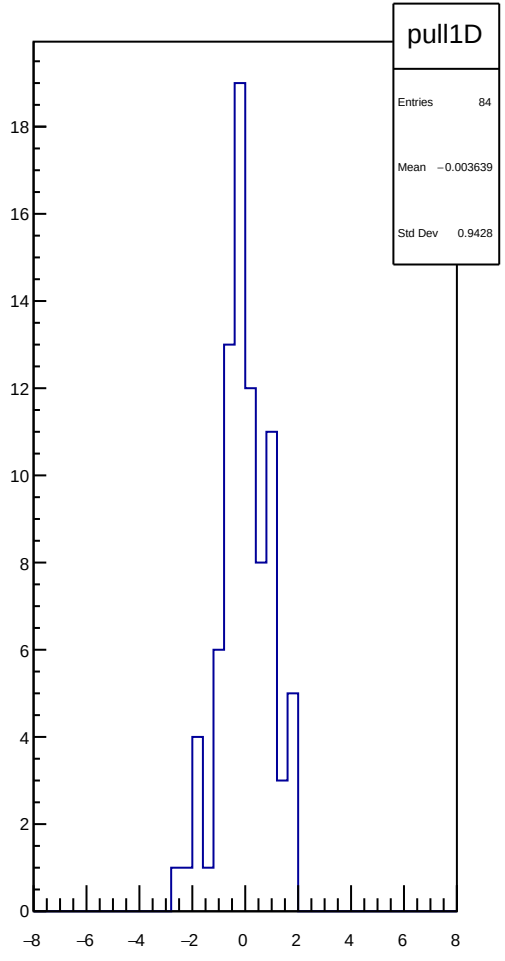

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.375e+04 / 83
p0 328.5 ± 0.2582
440
420
400
380
360
340
320
300
280
260

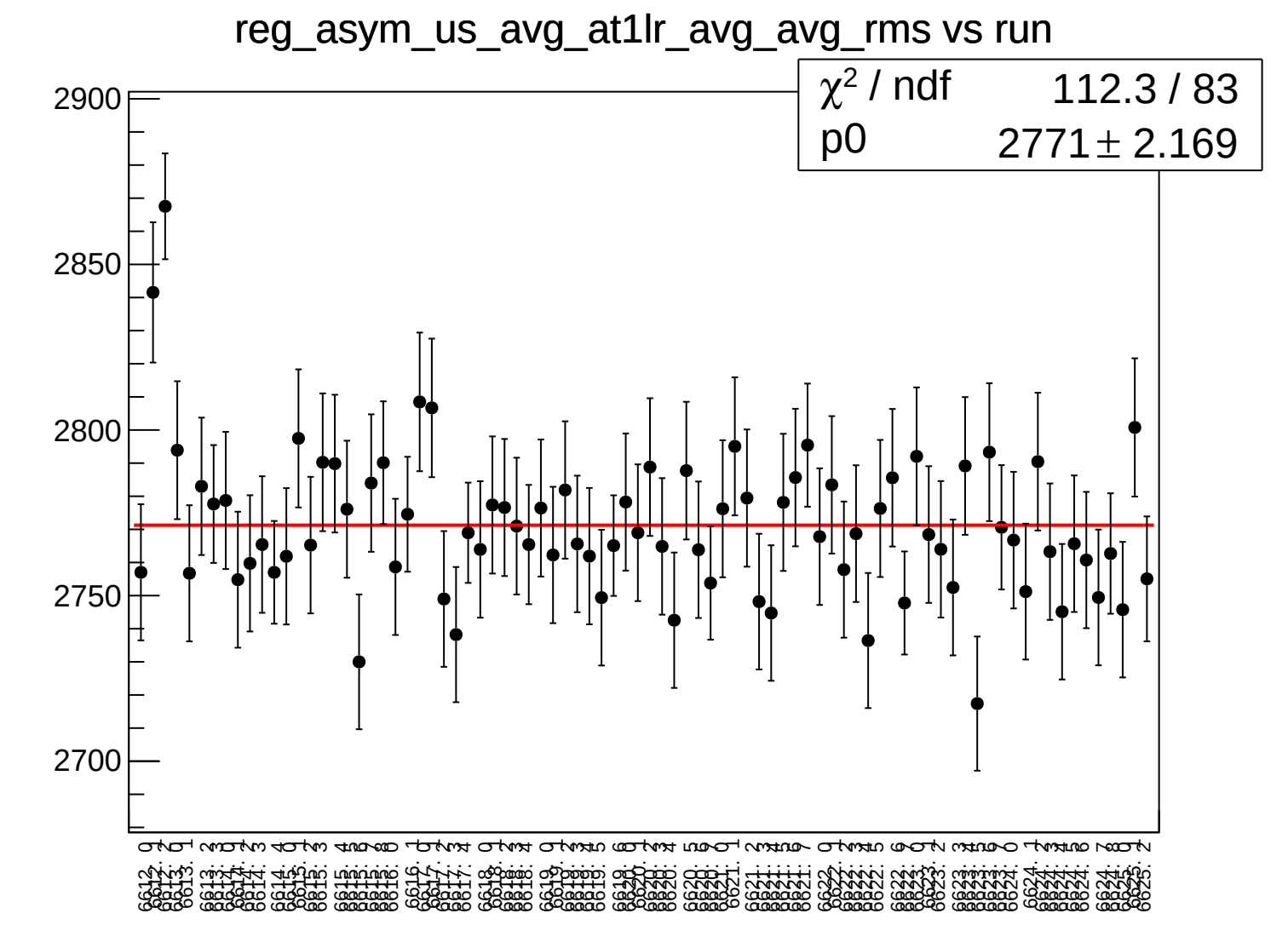

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.6 / 83
p0 −6.423e−15 ± 4.977e−14
pull
Entries 84
Mean 47.8
Std Dev 24.89

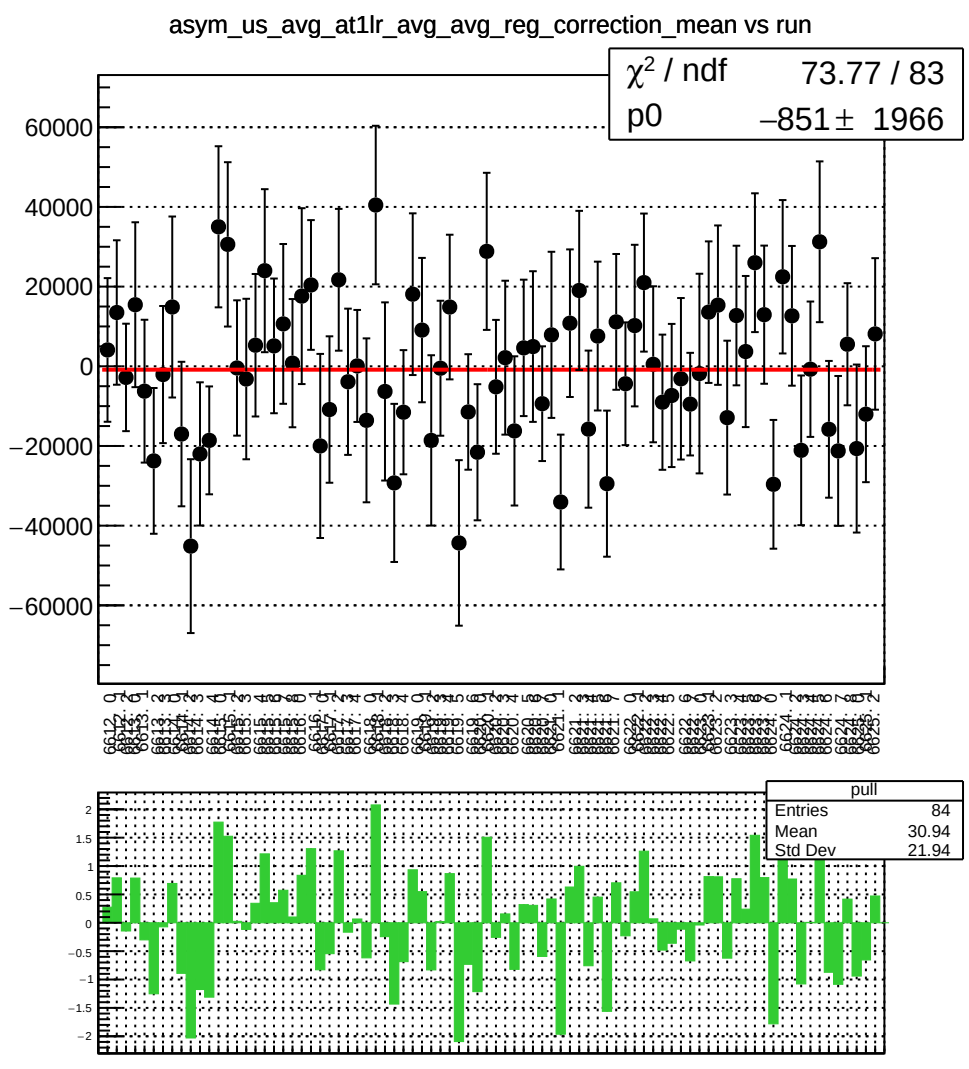

pull1D
Entries 84
Mean 0.04281
Std Dev 0.9222

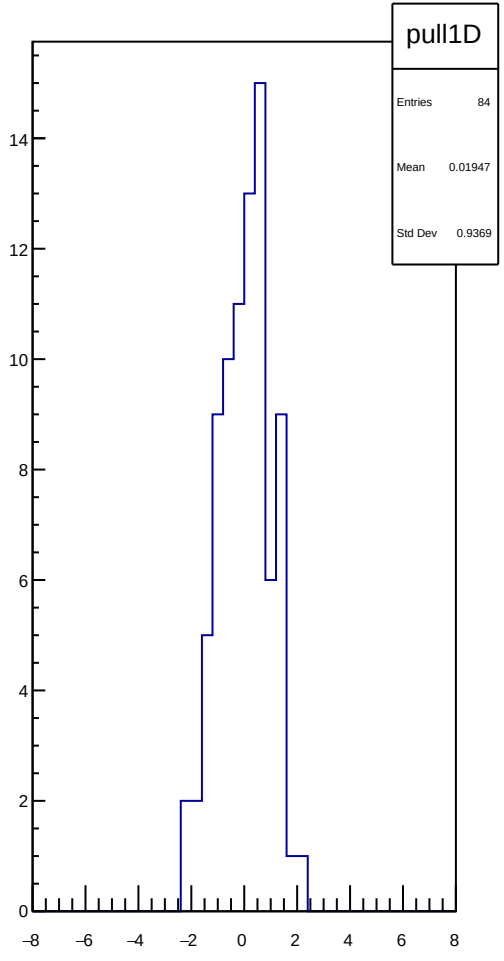

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.28e+05 / 83
p0 3.527e−11 ± 3.519e−14
0.3
0.25
0.2
0.15
0.1
0.05

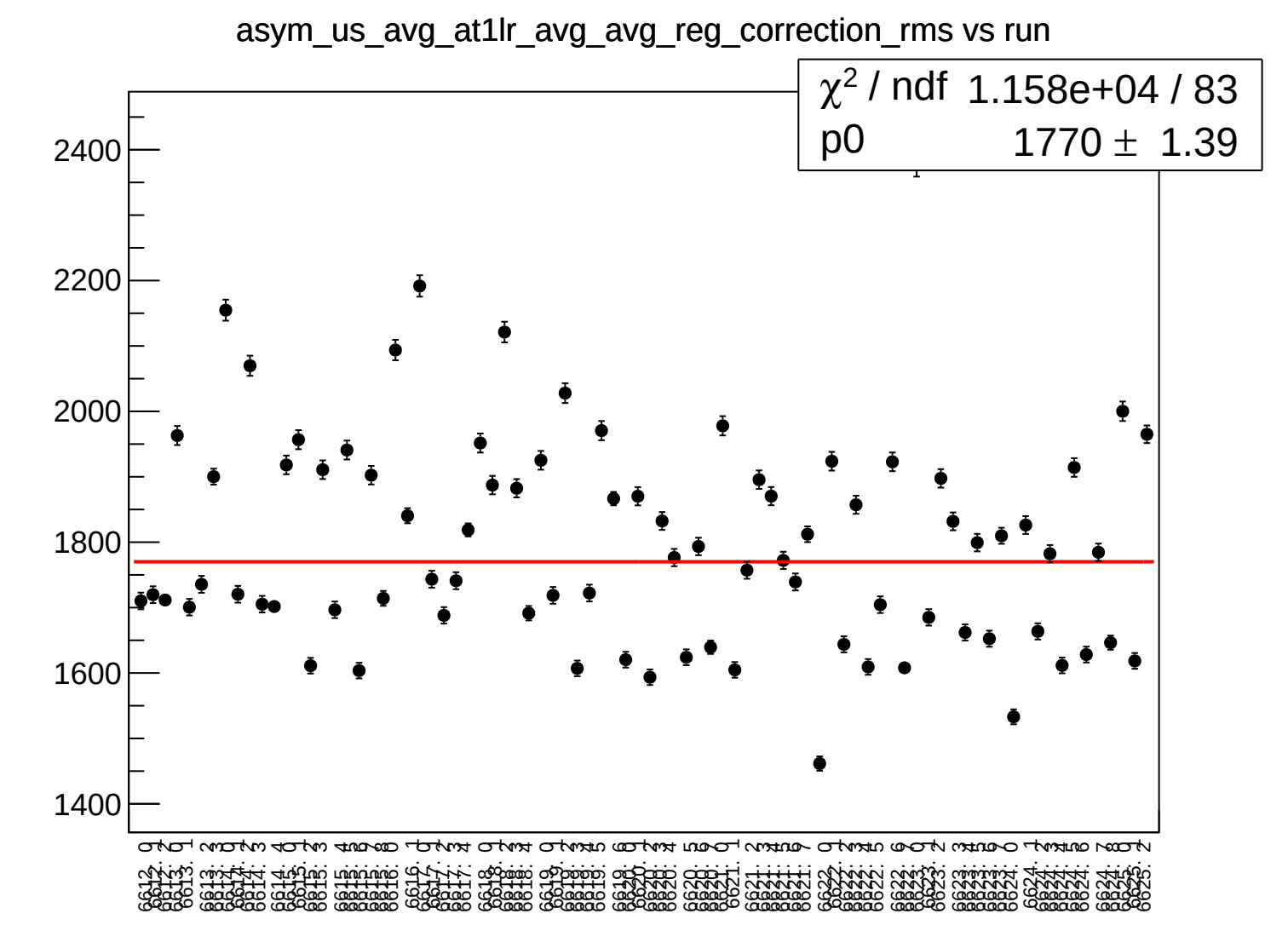

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 74.67 / 83
p0 2802 ± 3067
pull
Entries 84
Mean 153.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

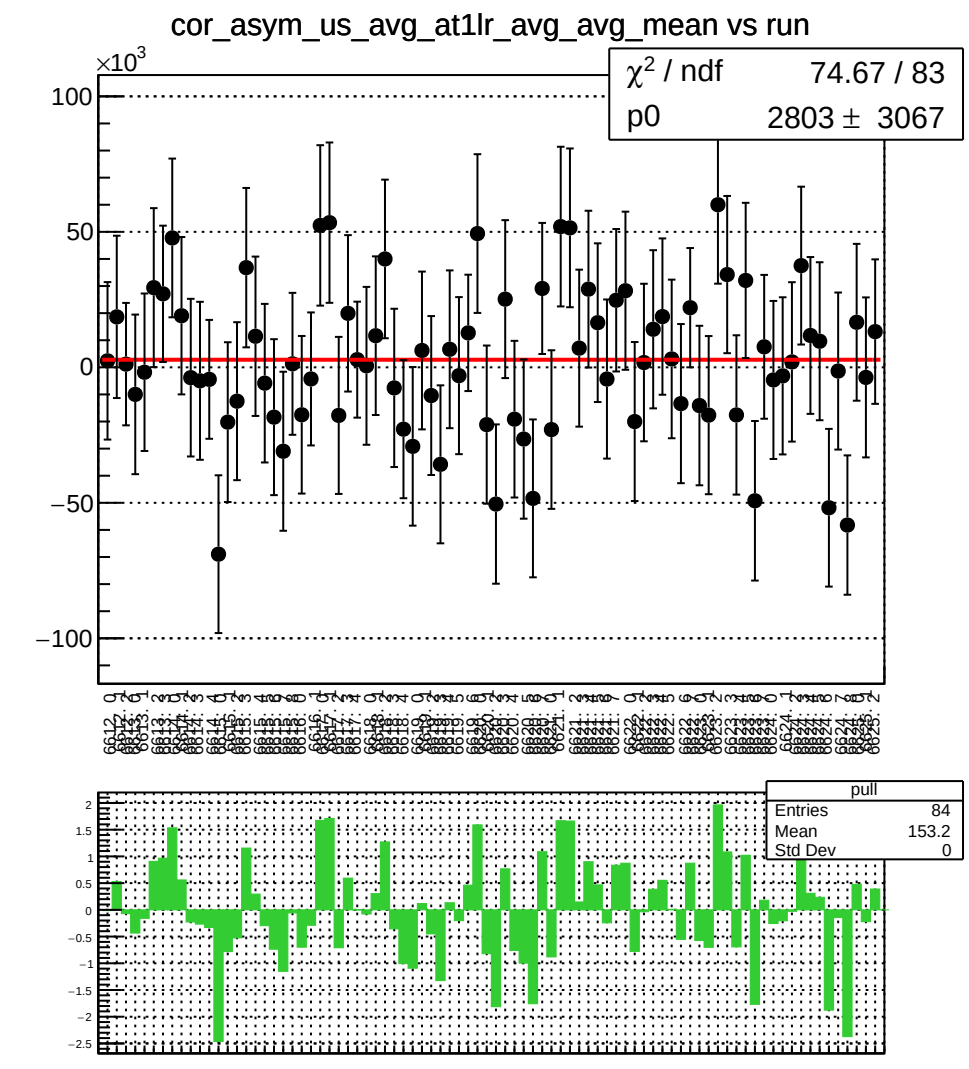

pull1D
Entries 84
Mean −0.003639
Std Dev 0.9428
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

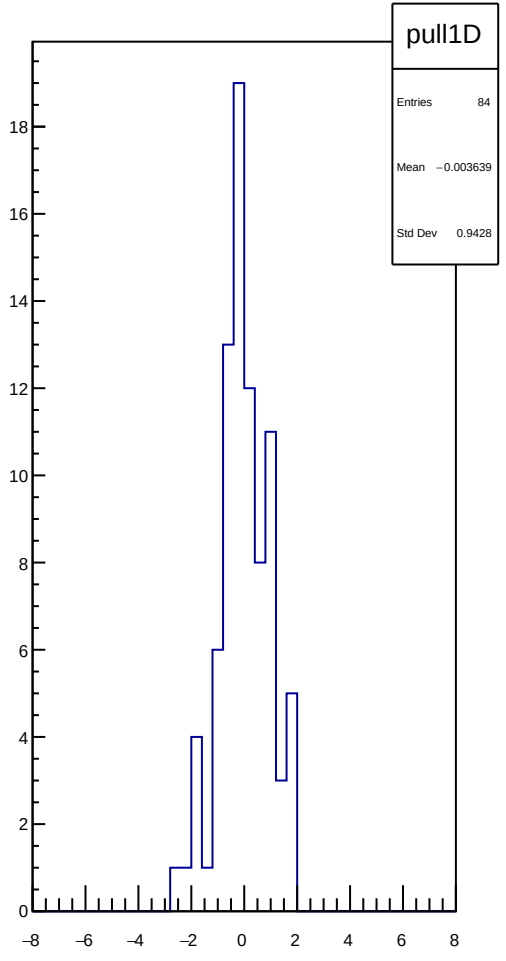

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 112.3 / 83
p0 2771 ± 2.169
2900
2850
2800
2750
2700

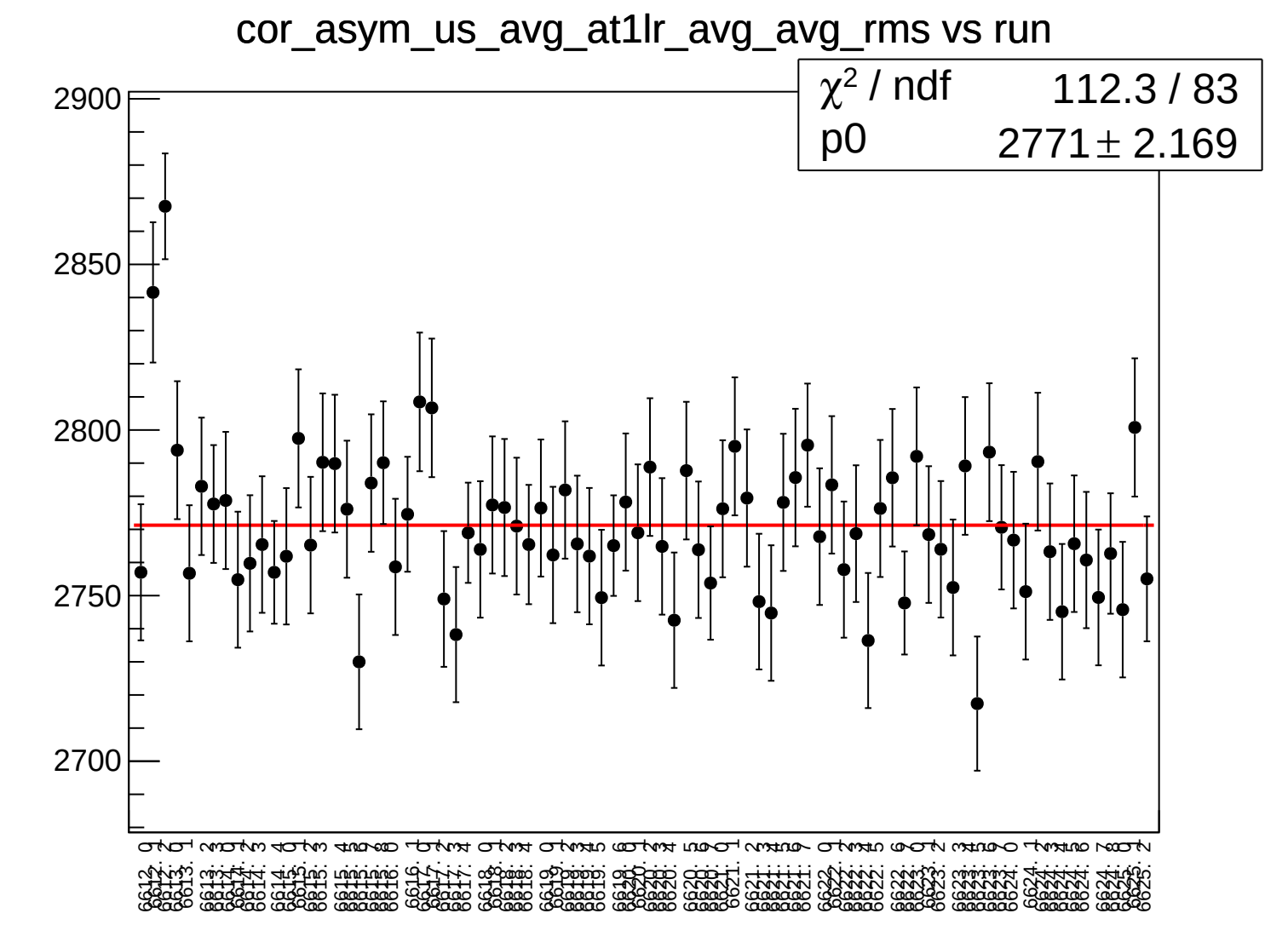

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 73.77 / 83
p0 −851 ± 1966
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 30.94
Std Dev 21.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

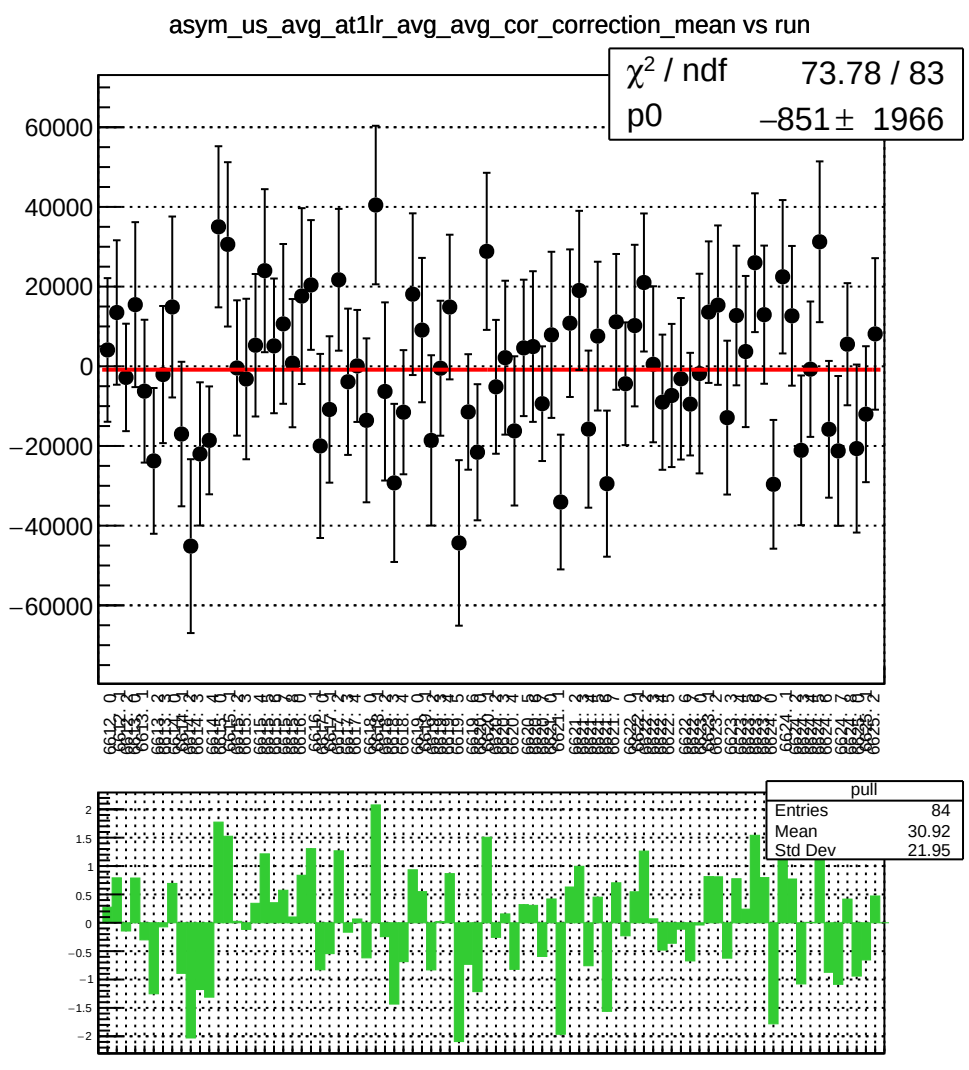

pull1D
Entries 84
Mean 0.01947
Std Dev 0.9369
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

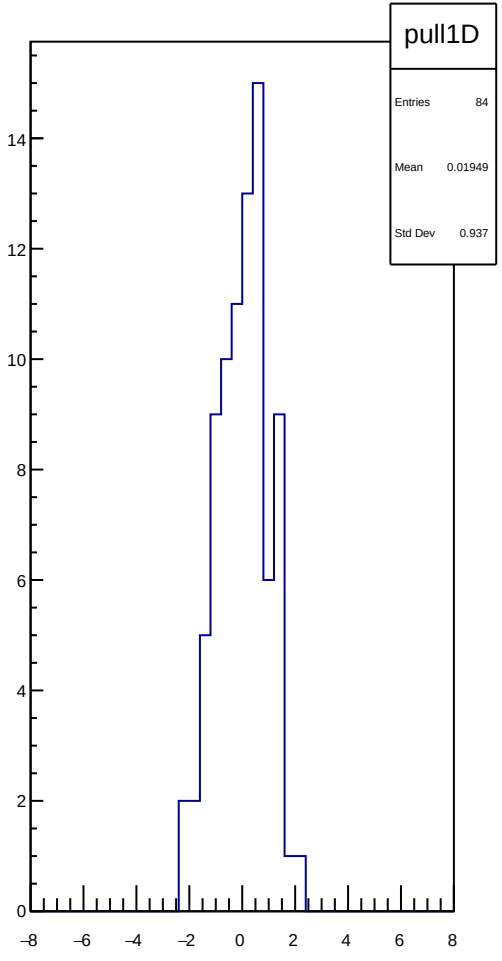

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.158e+04 / 83
p0 1770 ± 1.39
2400
2200
2000
1800
1600
1400

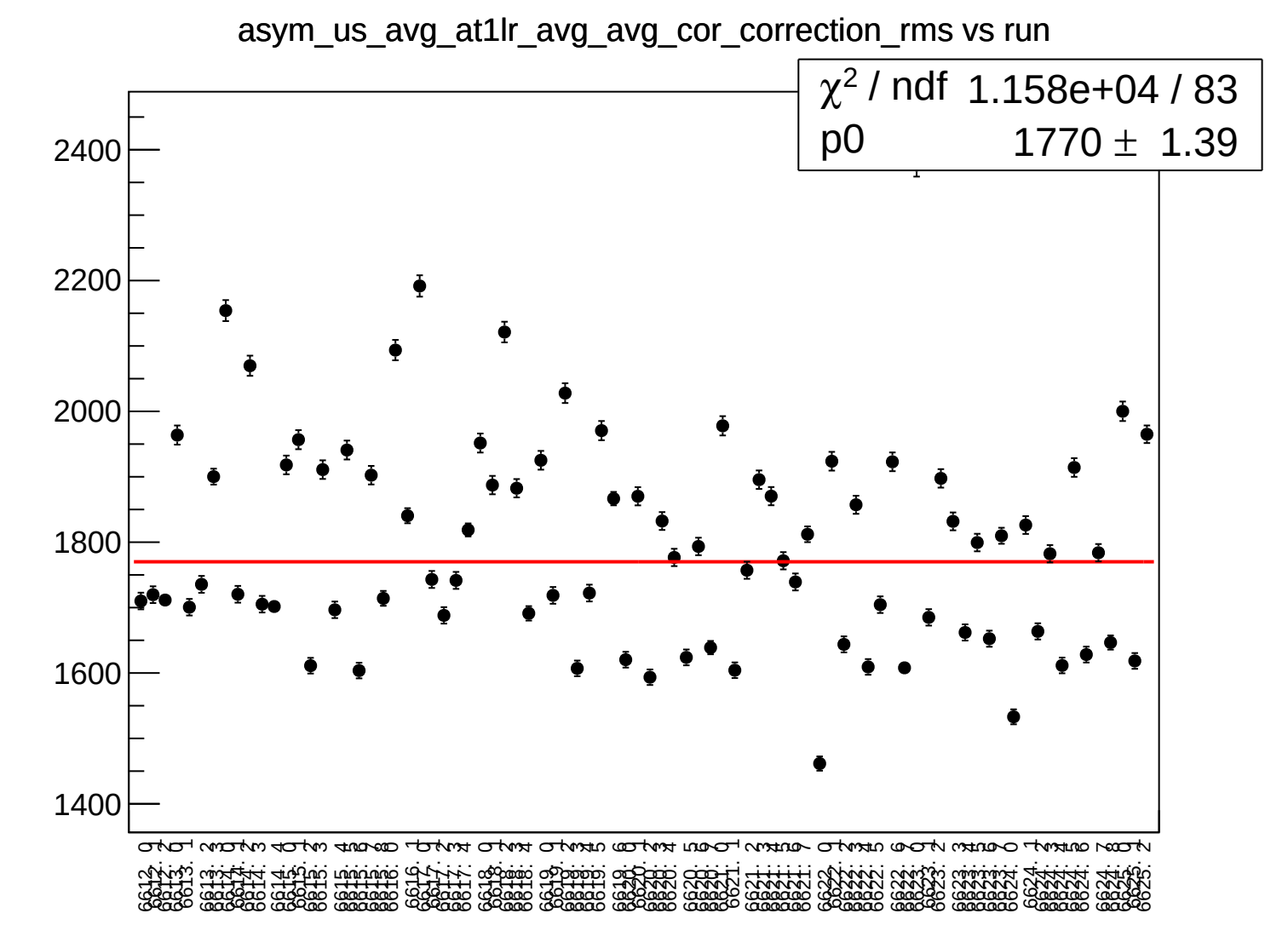

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 74.67 / 83
p0 2803 ± 3067
100
50
0
−50
−100
pull
Entries 84
Mean 153.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

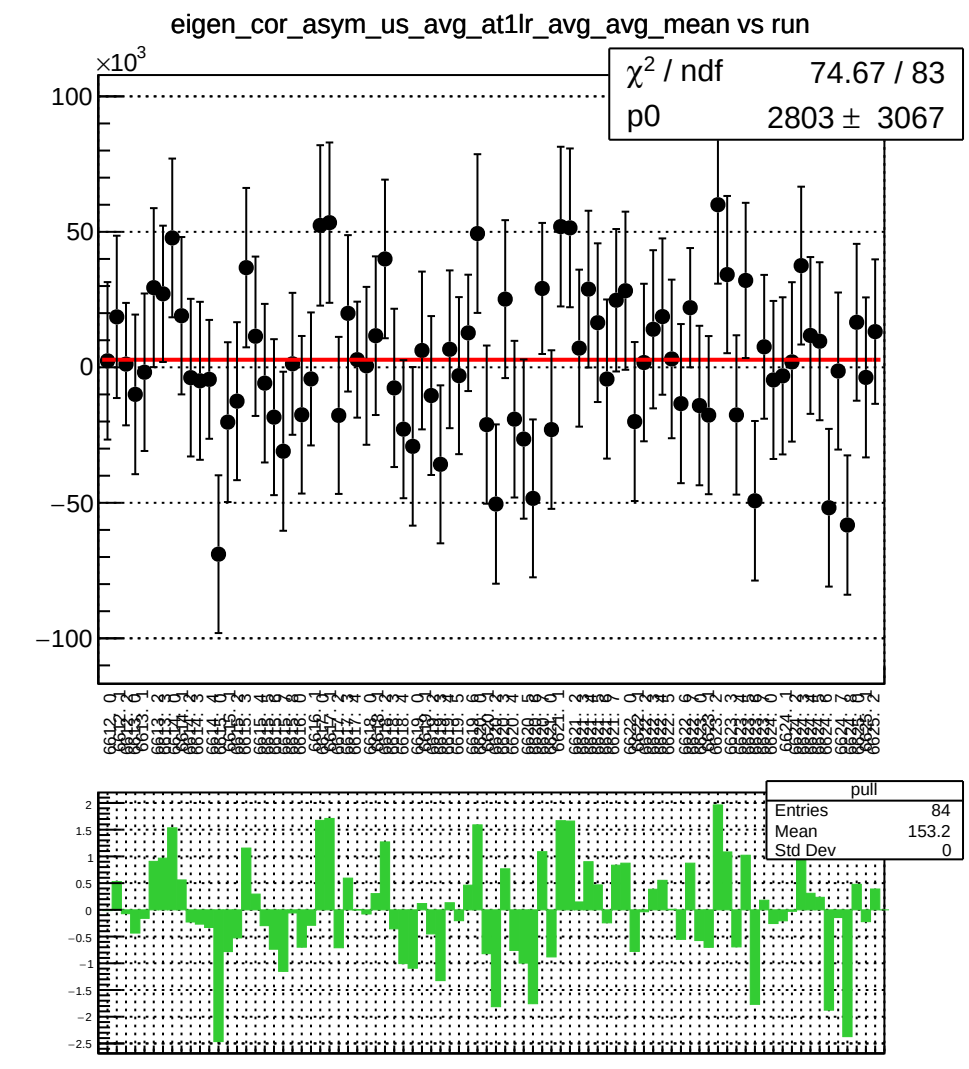

pull1D
Entries 84
Mean −0.003639
Std Dev 0.9428
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

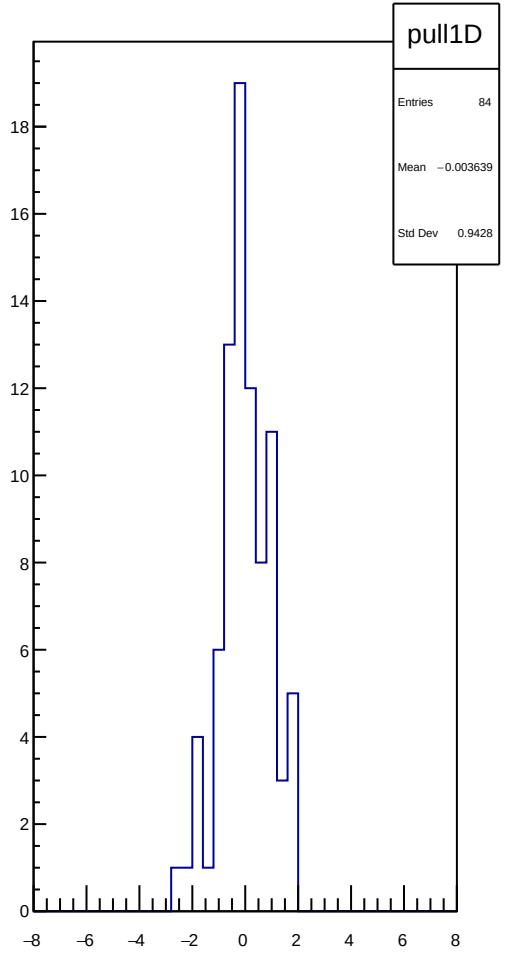

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 112.3 / 83
p0 2771 ± 2.169
2900
2850
2800
2750
2700

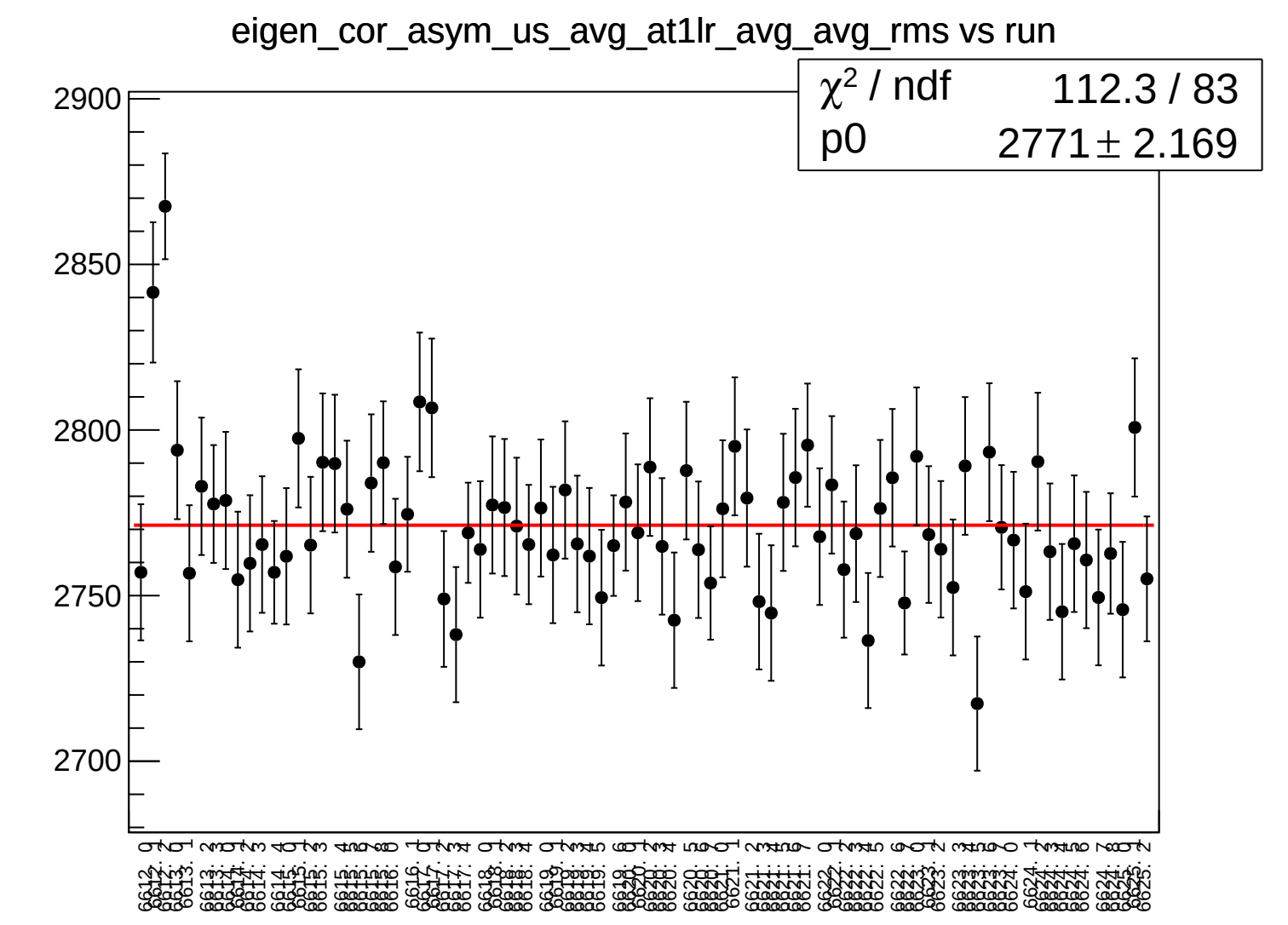

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 73.78 / 83
p0 −851 ± 1966
pull
Entries 84
Mean 30.92
Std Dev 21.95

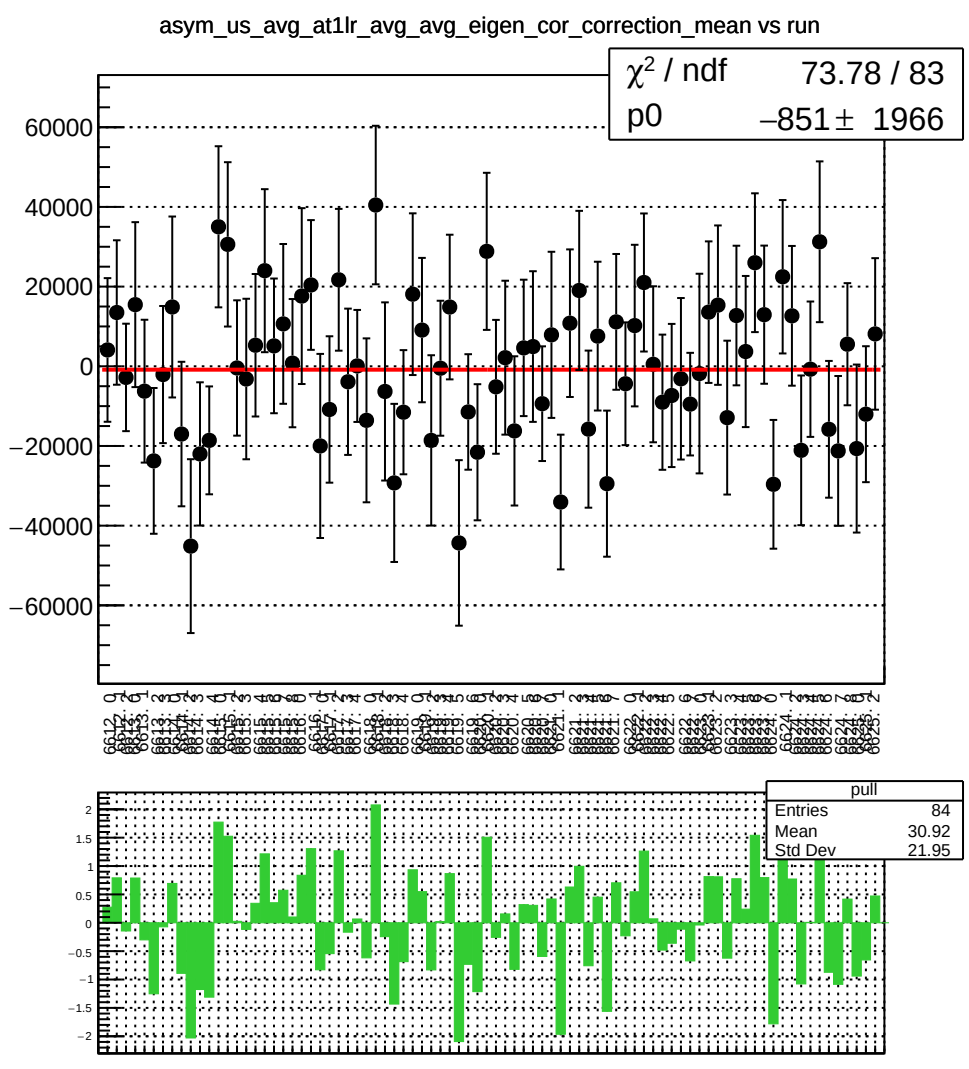

pull1D
Entries 84
Mean 0.01949
Std Dev 0.937

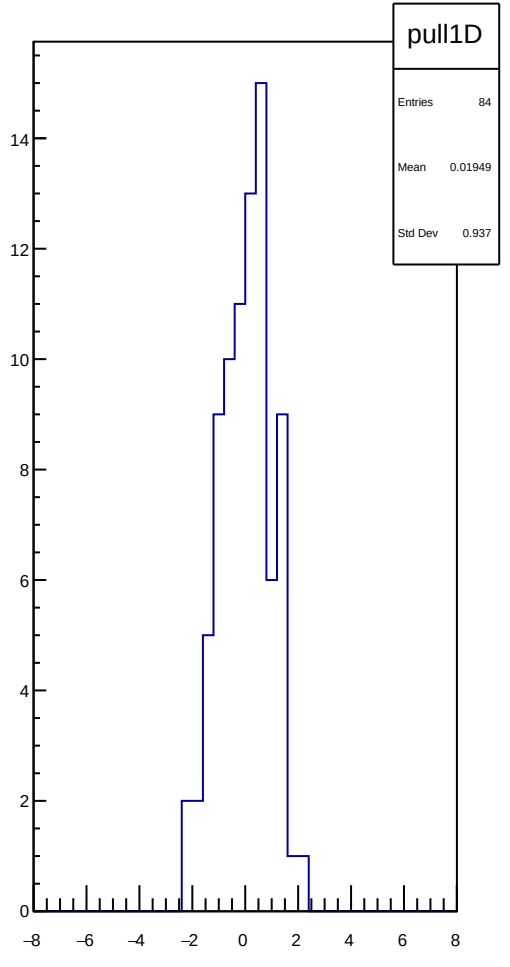

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.158e+04 / 83
p0 1770 ± 1.39
2400
2200
2000
1800
1600
1400

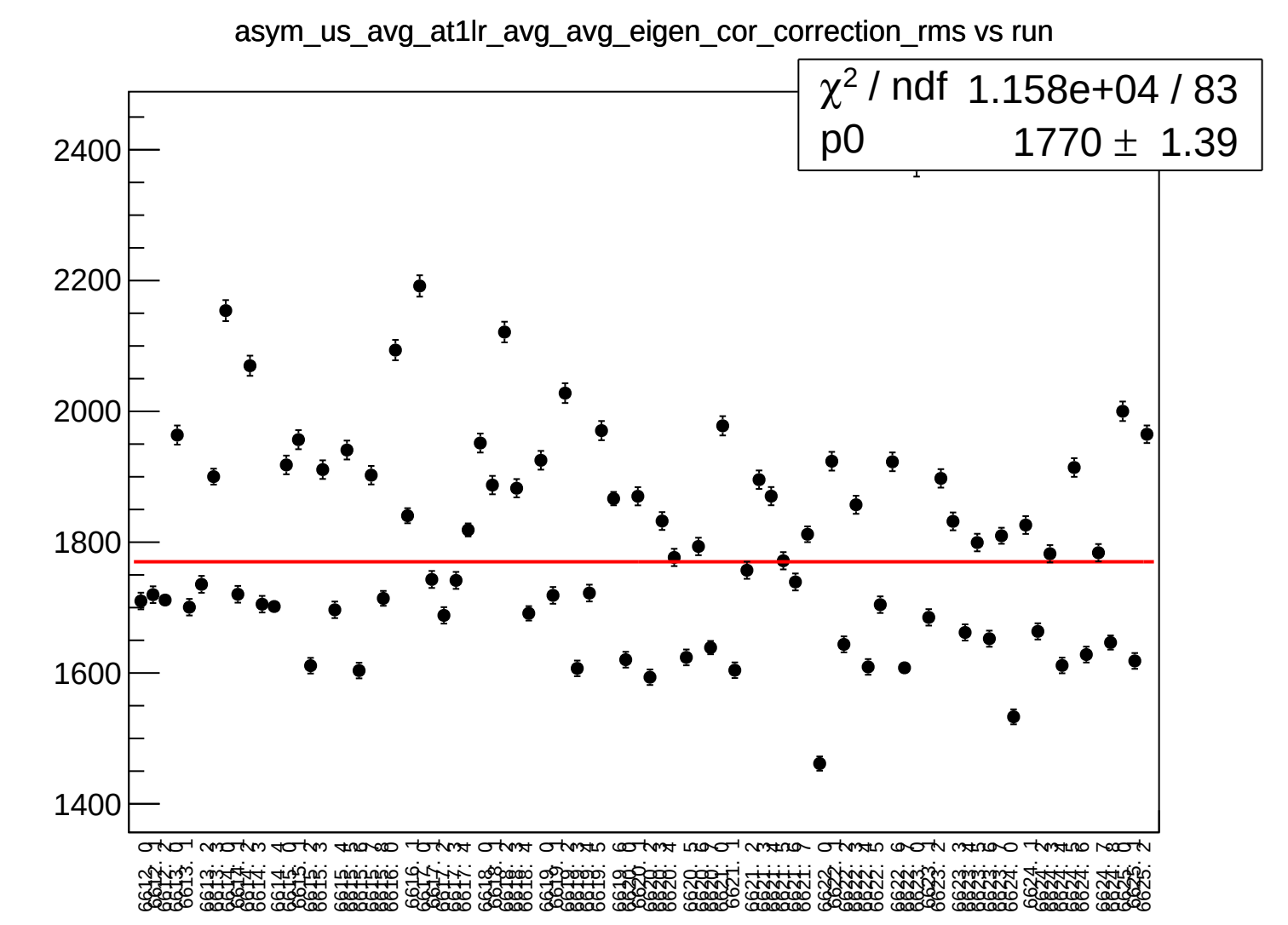

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 74.67 / 83
p0 2803 ± 3067
100
50
0
−50
−100
pull
Entries 84
Mean 153.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

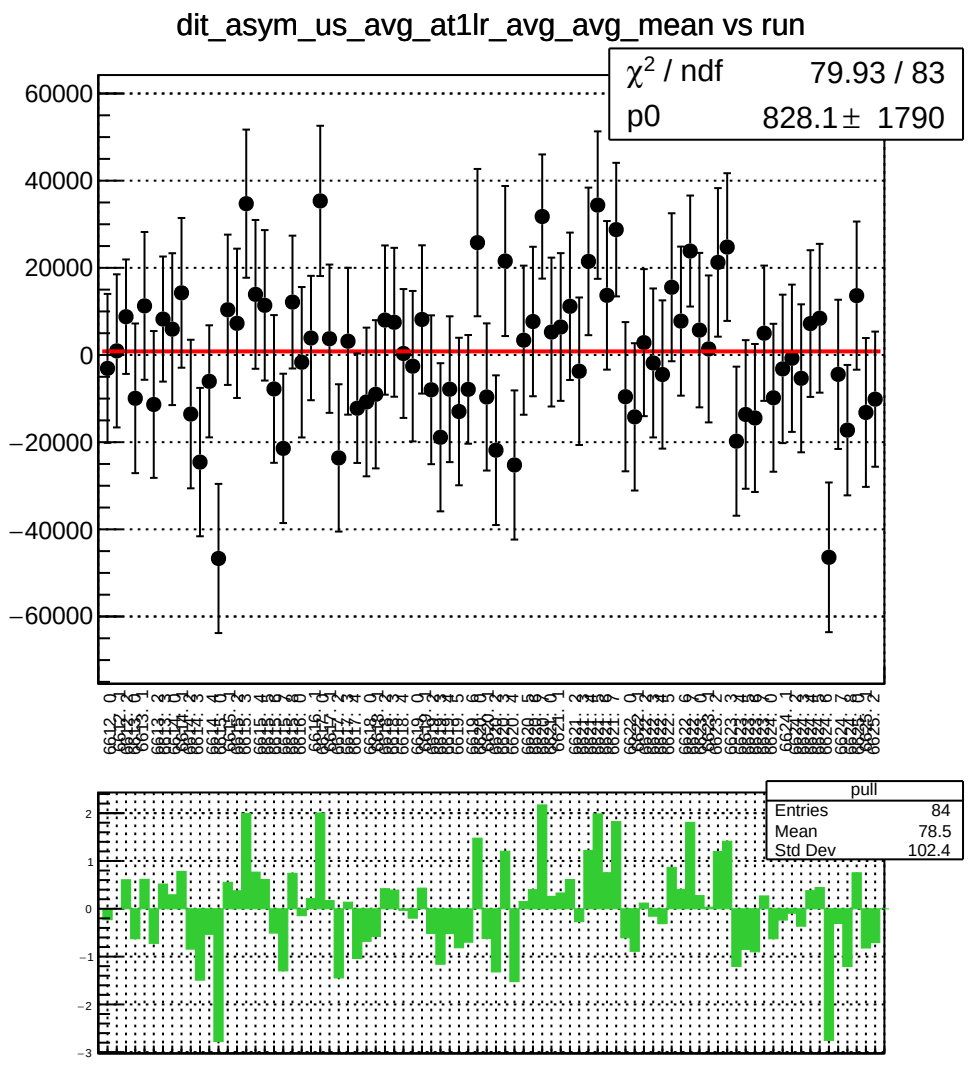

pull1D
Entries 84
Mean −0.003639
Std Dev 0.9428
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

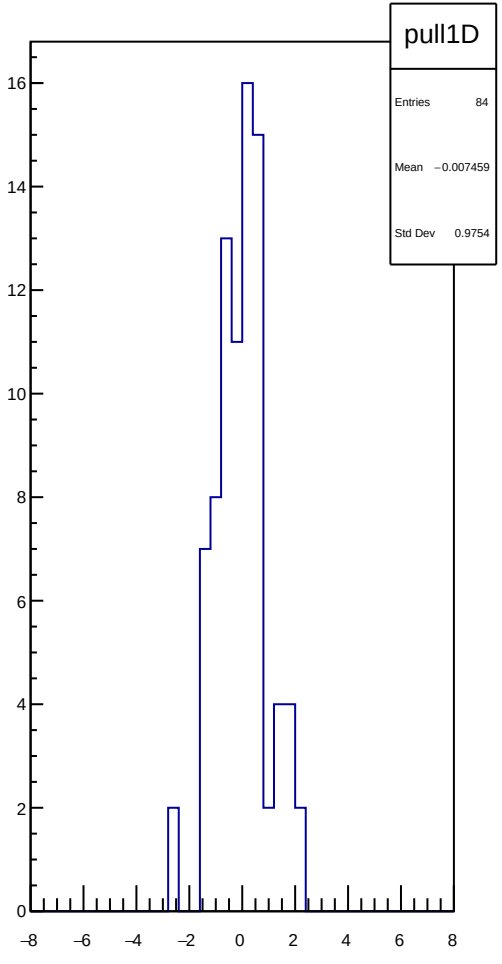

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 112.3 / 83
p0 2771 ± 2.169
2900
2850
2800
2750
2700

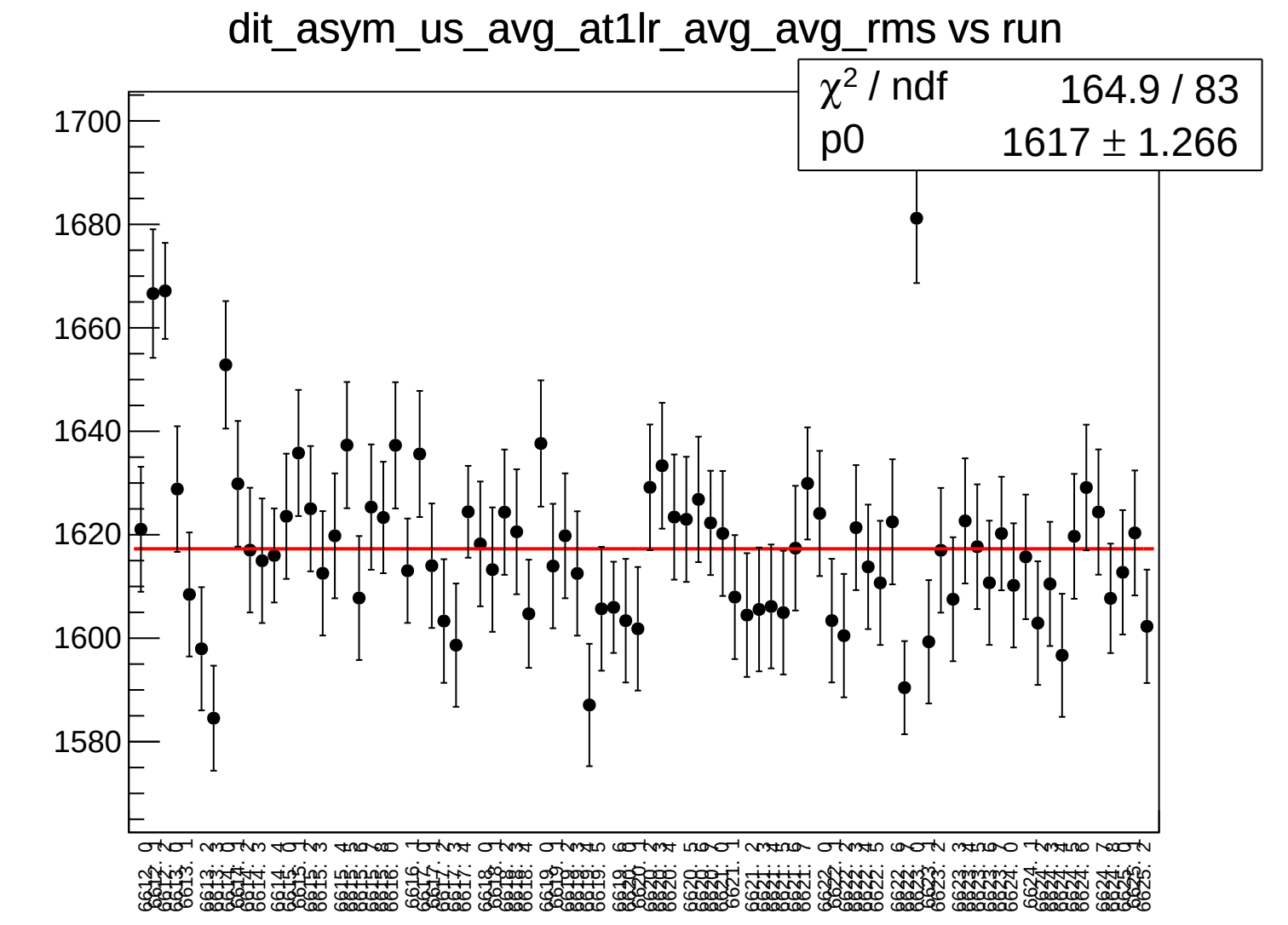

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 73.78 / 83
p0 −851 ± 1966
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 30.92
Std Dev 21.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

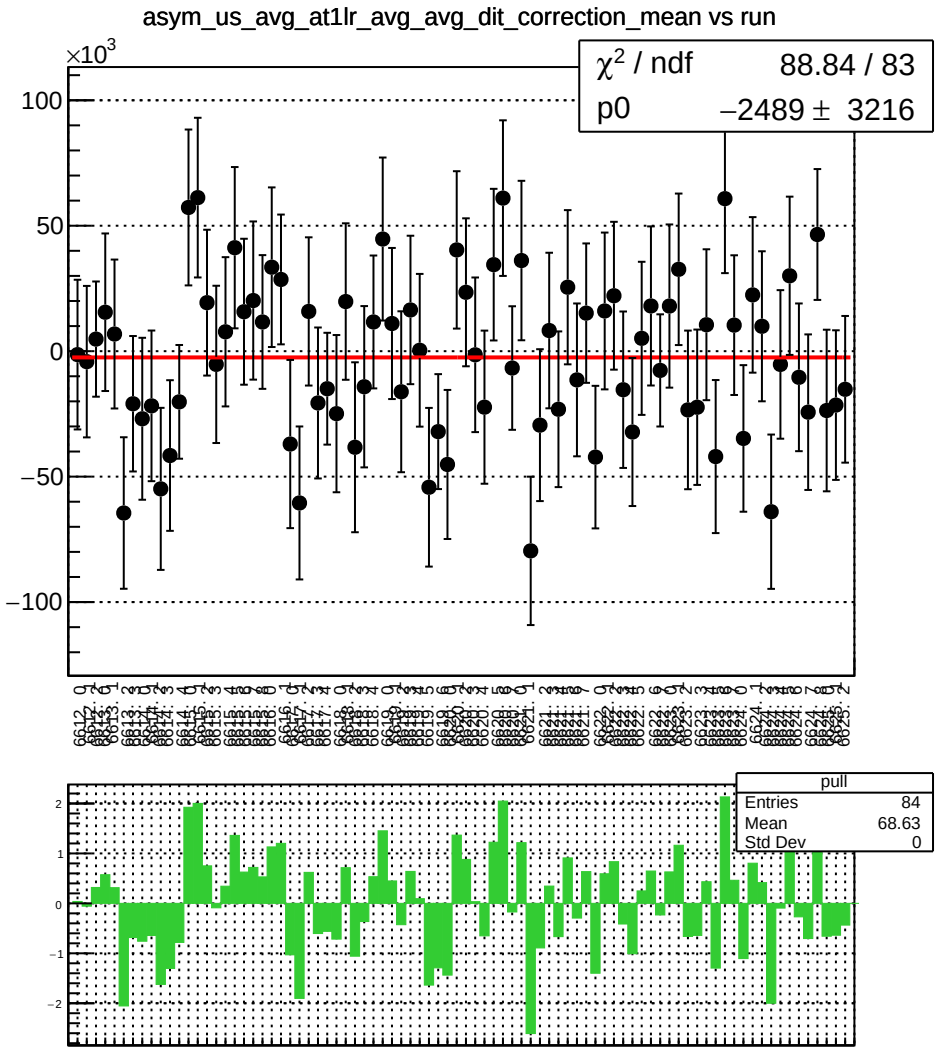

pull1D
Entries 84
Mean 0.01949
Std Dev 0.937
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

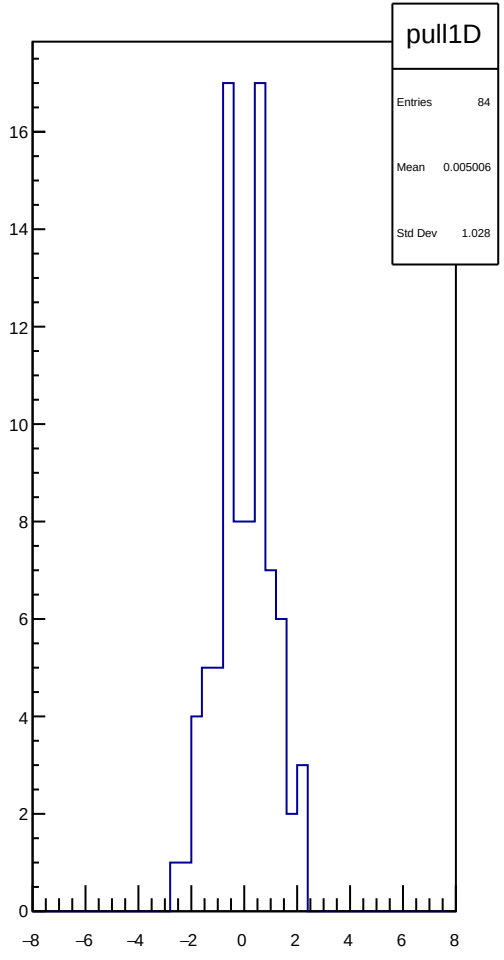

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.158e+04 / 83
p0 1770 ± 1.39
2400
2200
2000
1800
1600
1400

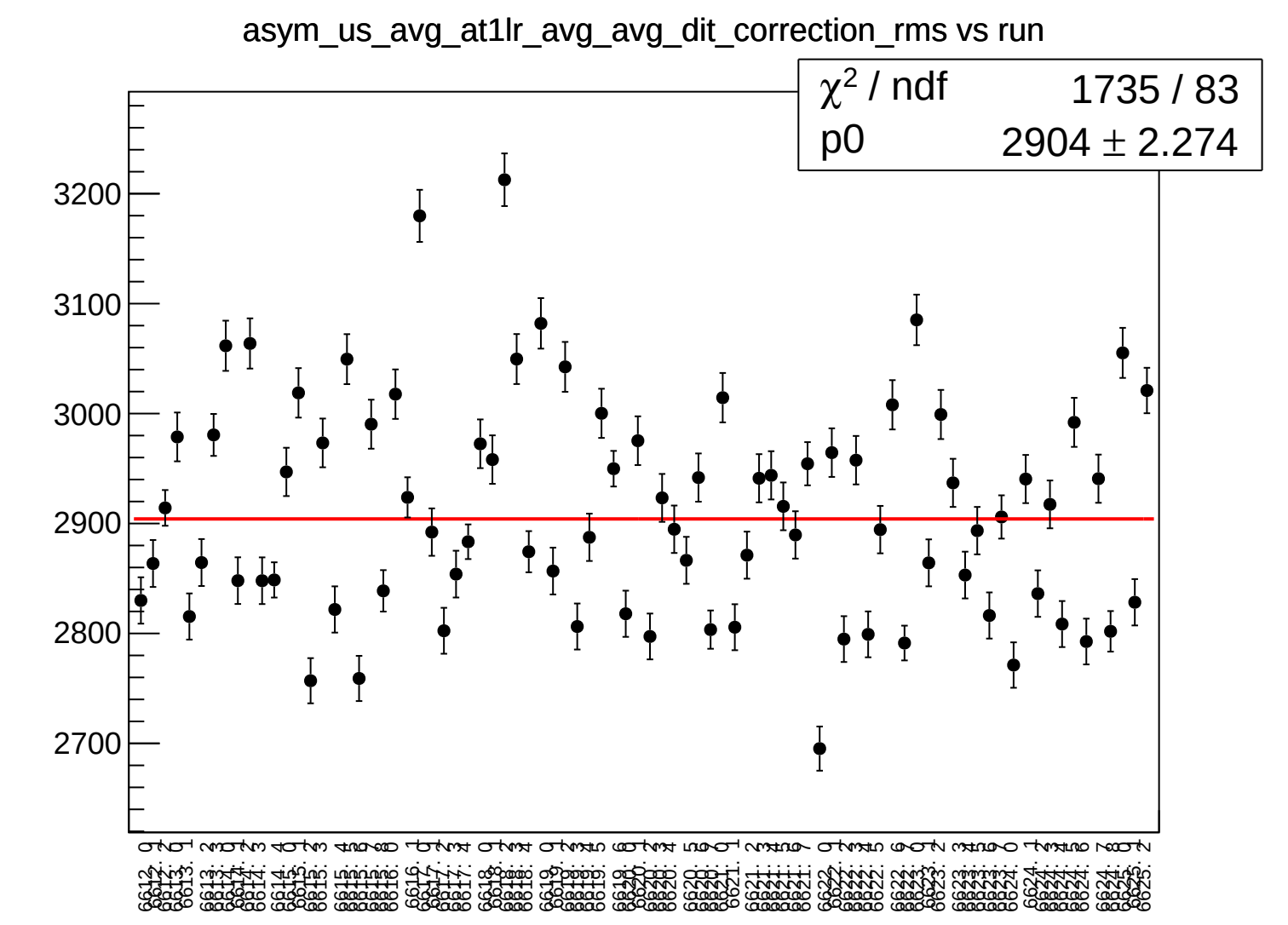

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 79.93 / 83
p0 828.1 ± 1790
pull
Entries 84
Mean 78.5
Std Dev 102.4

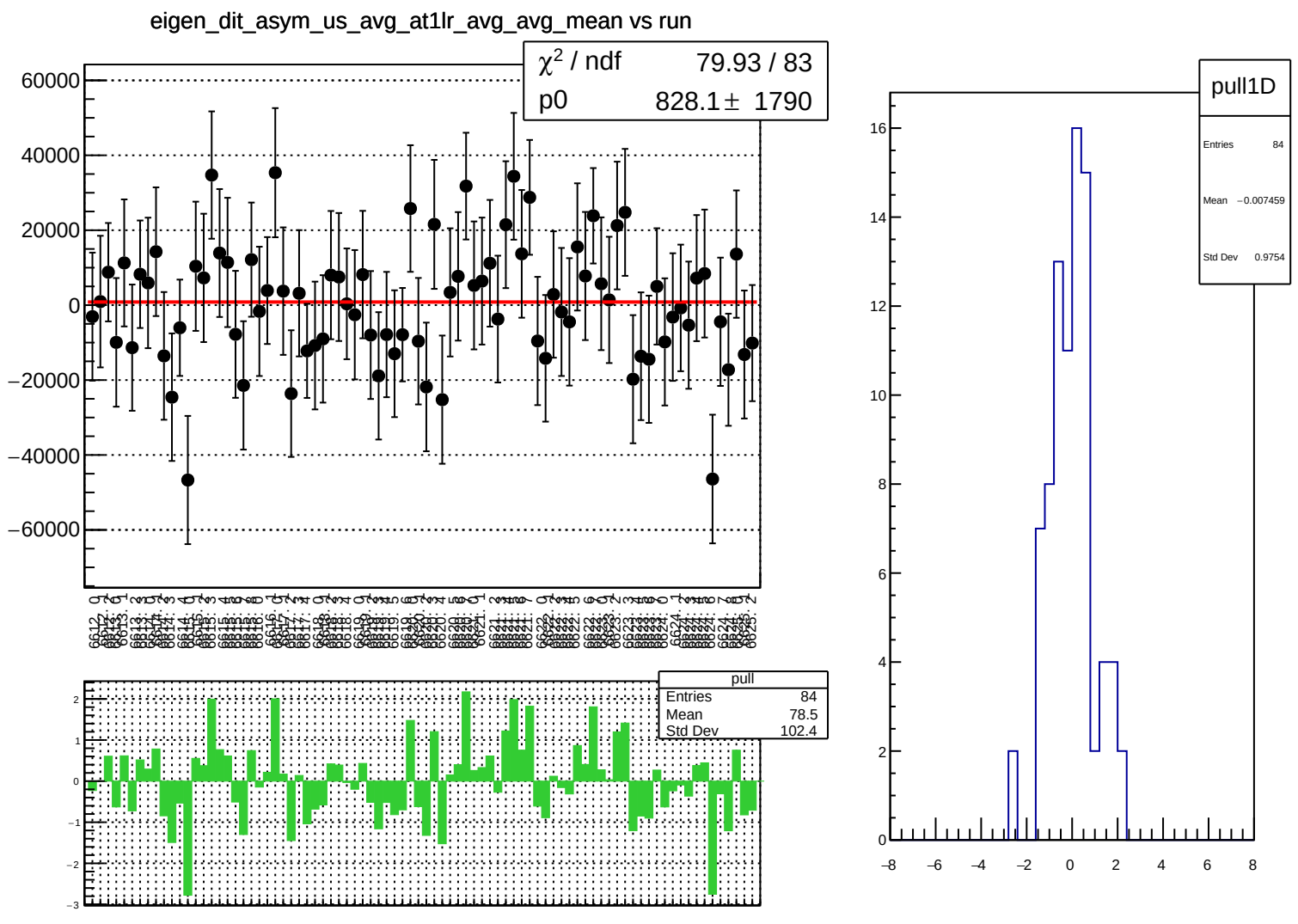

pull1D
Entries 84
Mean −0.007459
Std Dev 0.9754

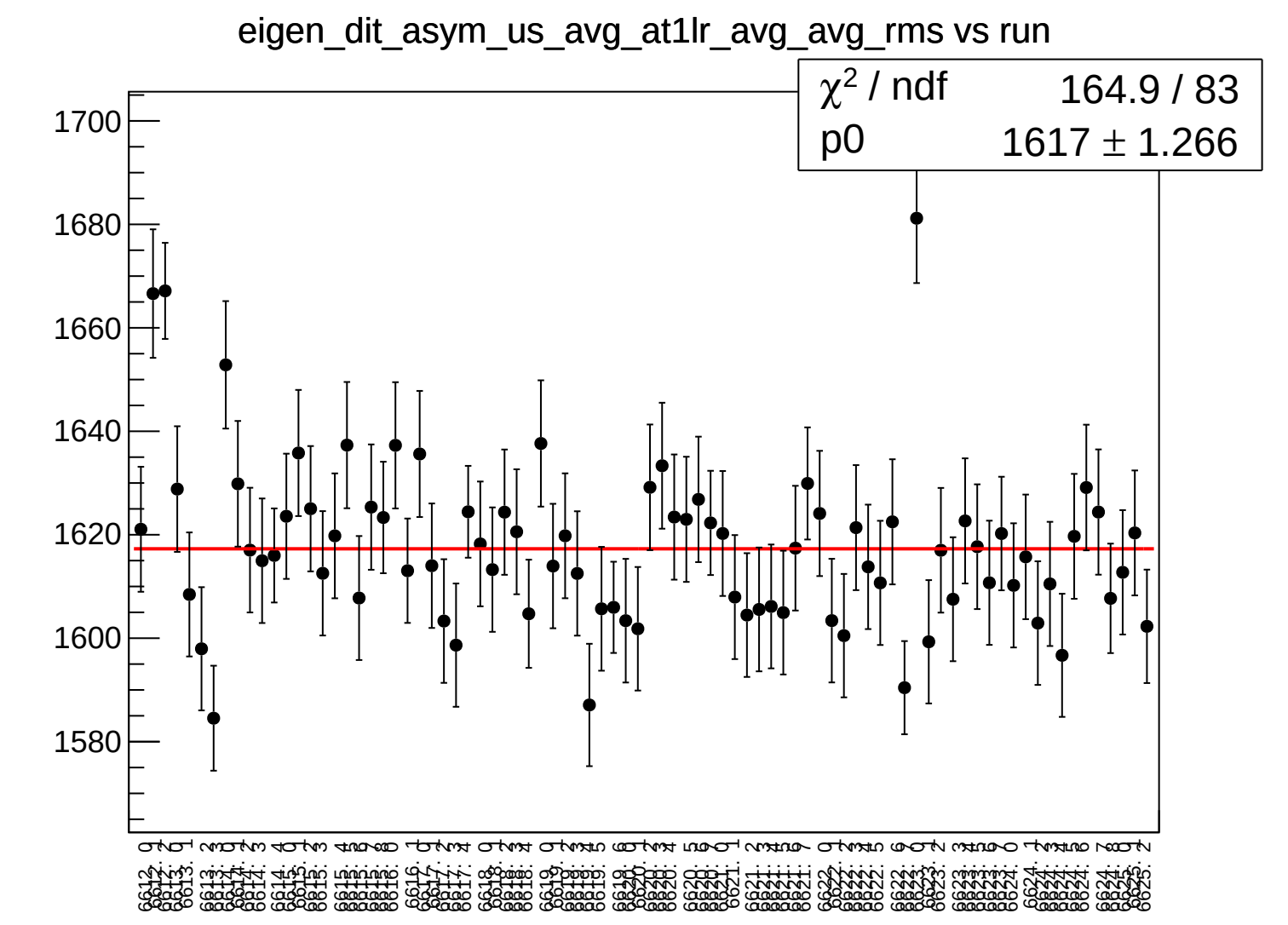

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 164.9 / 83
p0 1617 ± 1.266
1700
1680
1660
1640
1620
1600
1580

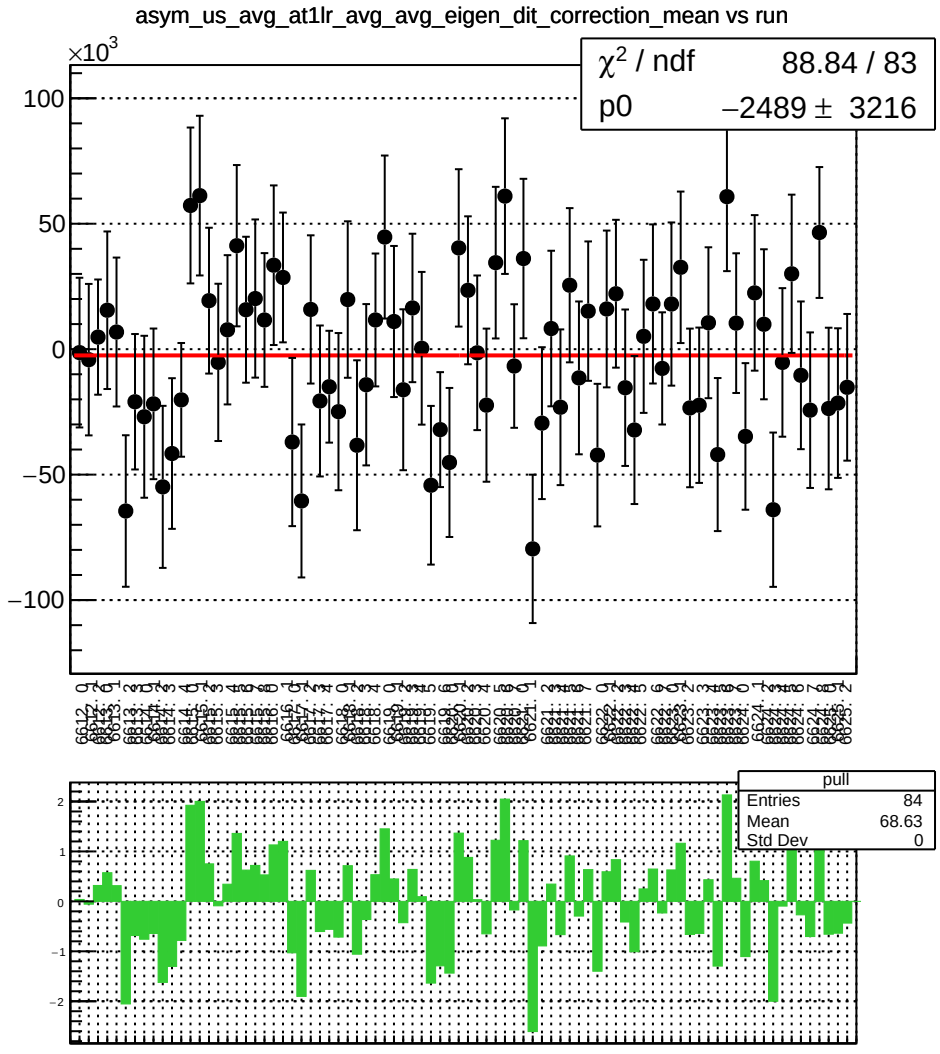

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 88.84 / 83
p0 −2489 ± 3216
100
50
0
−50
−100
pull
Entries 84
Mean 68.63
Std Dev 0
2
1
0
−1
−2

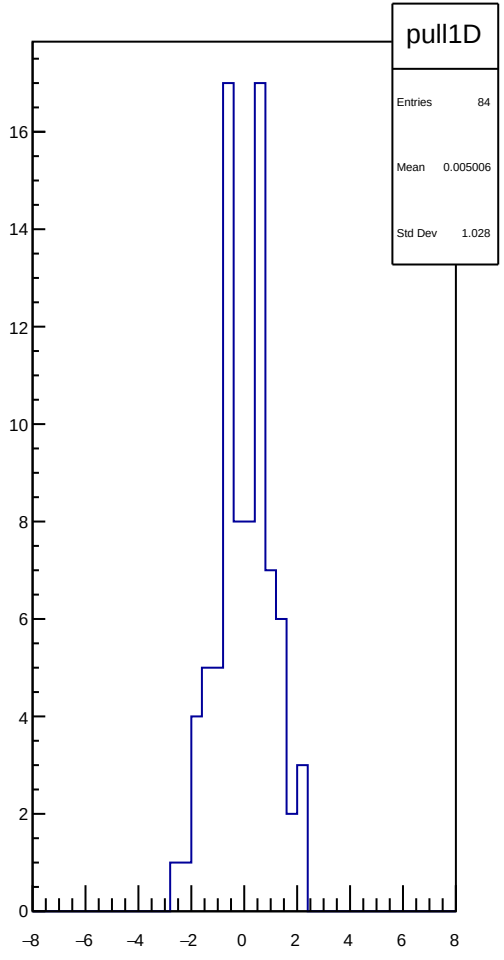

pull1D
Entries 84
Mean 0.005006
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

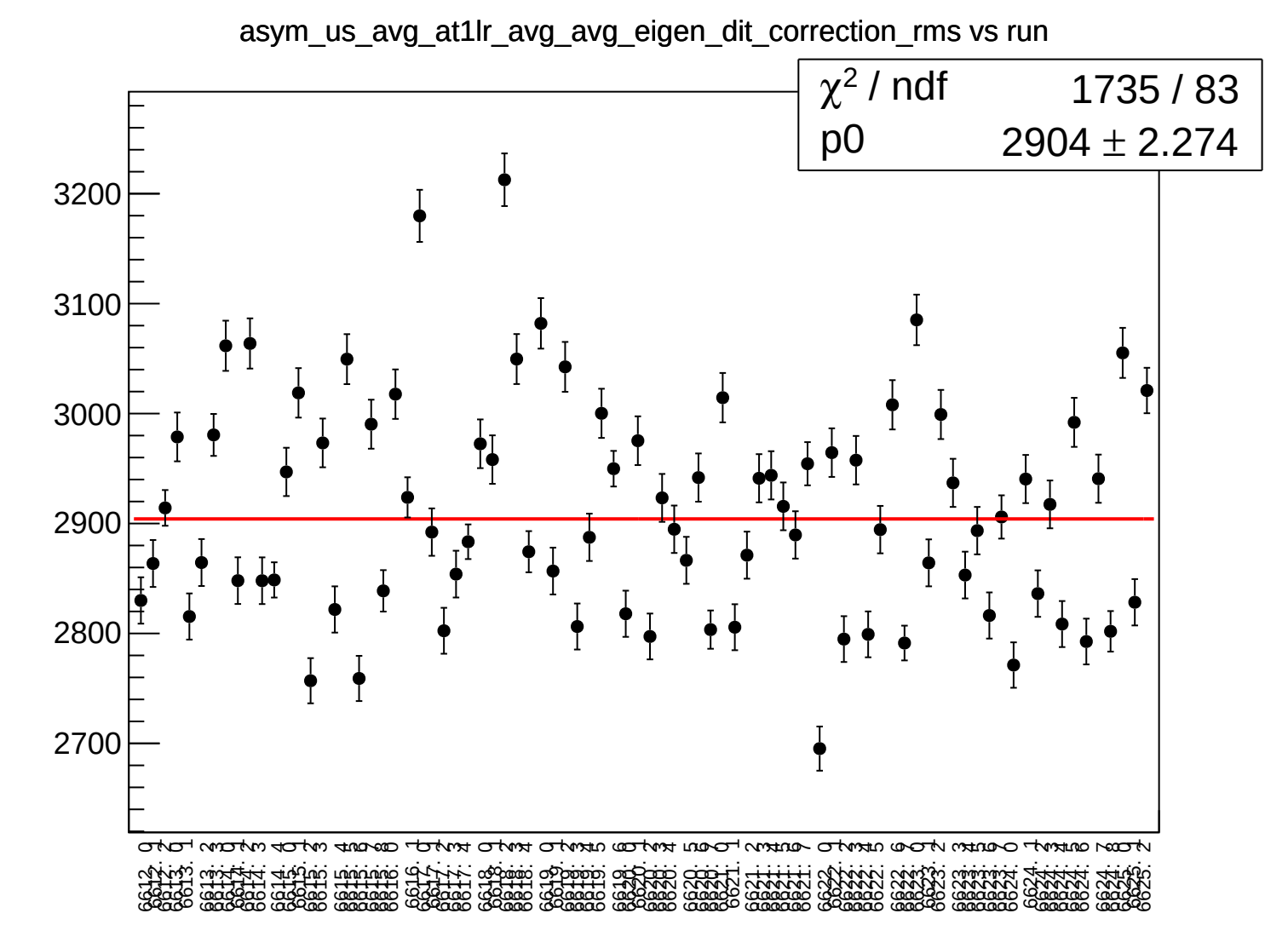

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1735 / 83
p0 2904 ± 2.274
3200
3100
3000
2900
2800
2700

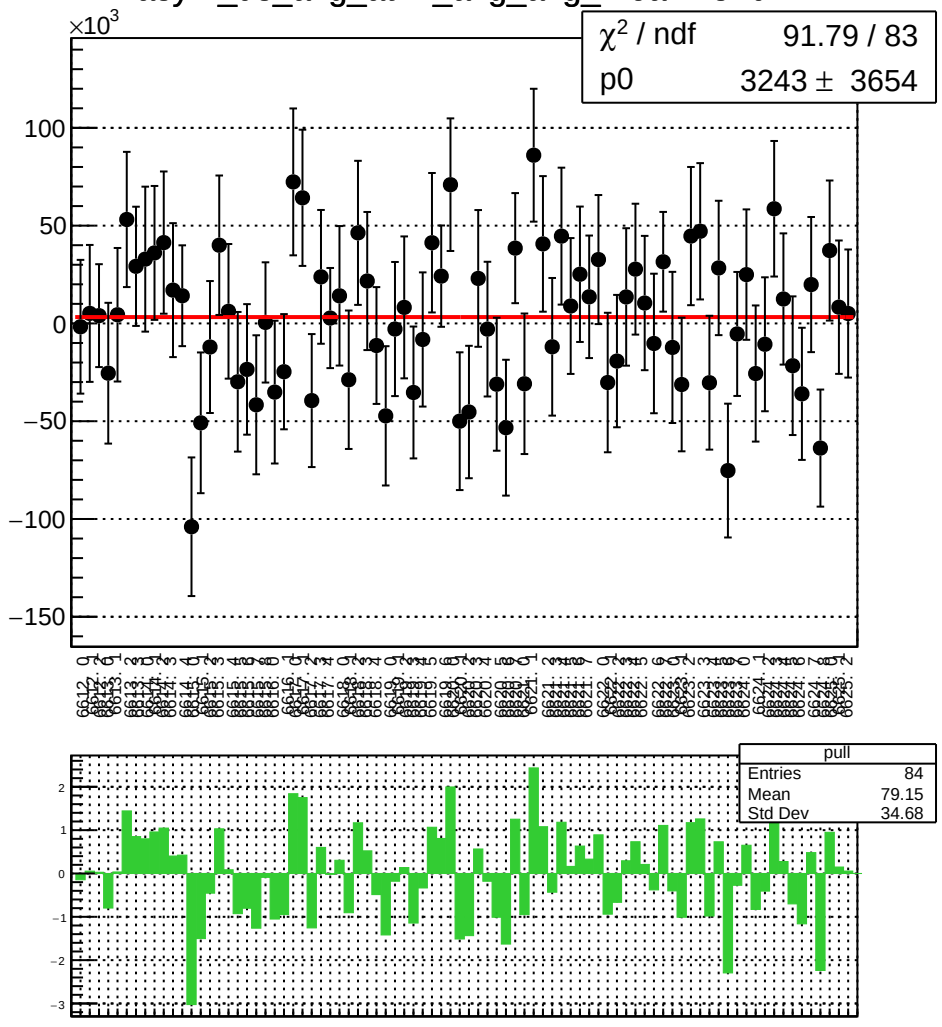

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 79.93 / 83
p0 828.1 ± 1790
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 78.5
Std Dev 102.4
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.007459
Std Dev 0.9754
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

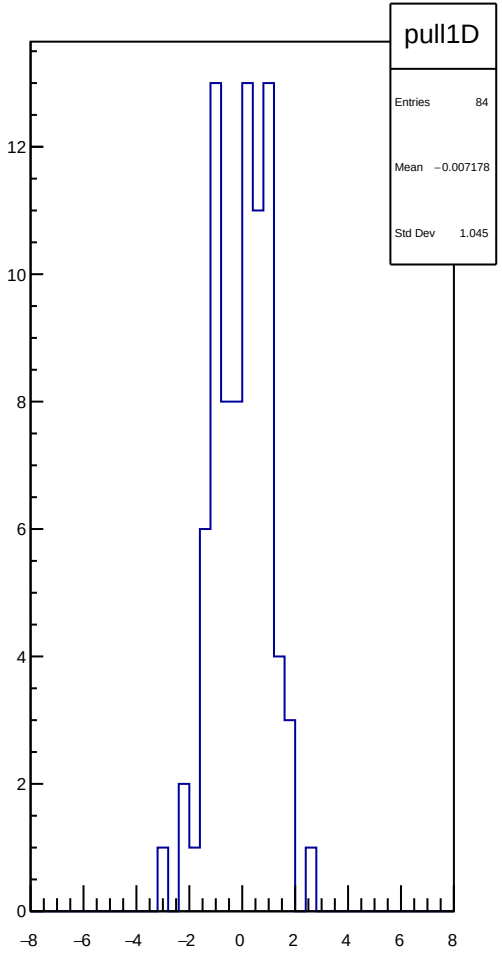

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 164.9 / 83
p0 1617 ± 1.266
1700
1680
1660
1640
1620
1600
1580

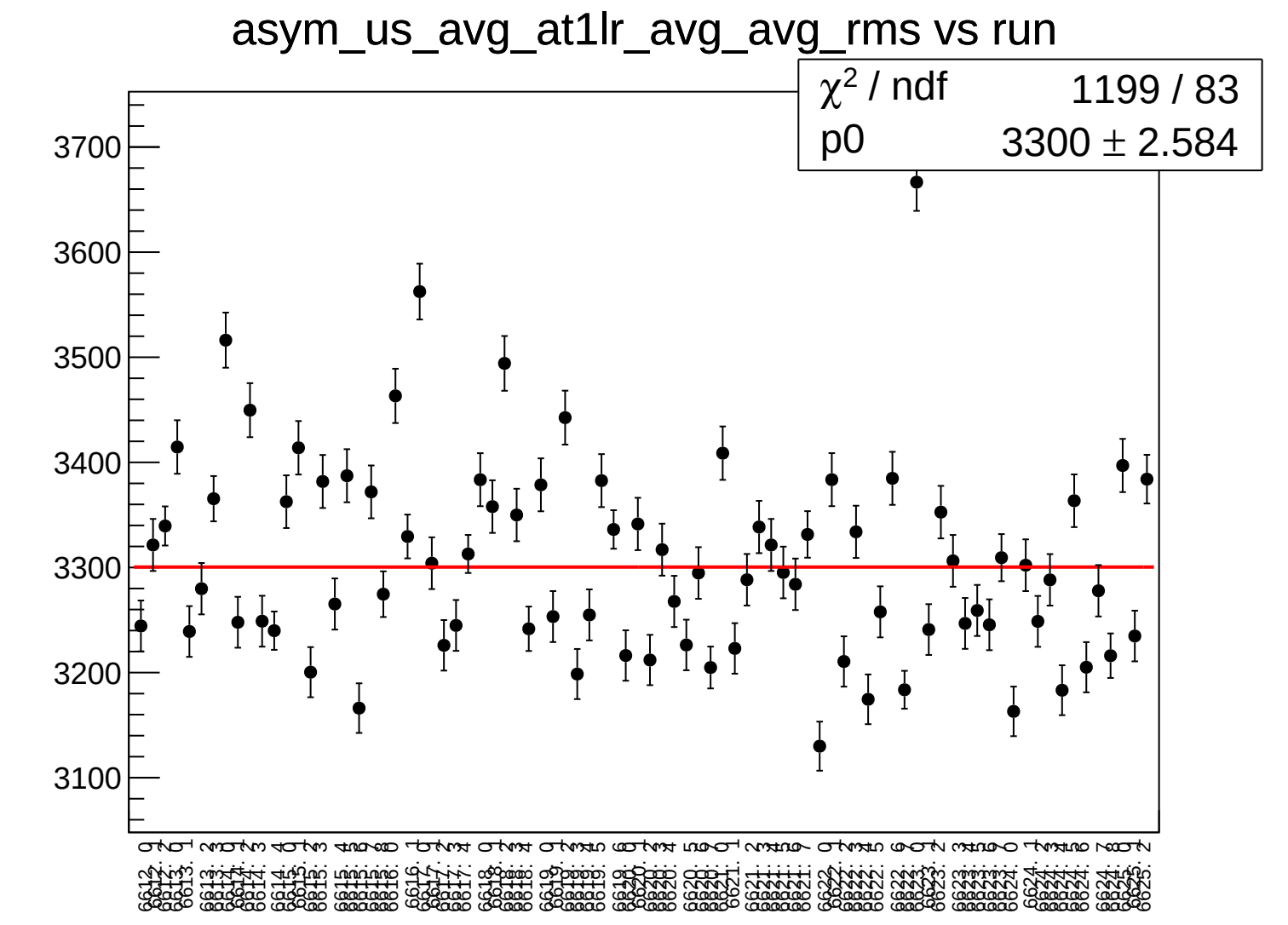

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.84 / 83
p0 −2489 ± 3216
100
50
0
−50
−100
pull
Entries 84
Mean 68.63
Std Dev 0
2
1
0
−1
−2

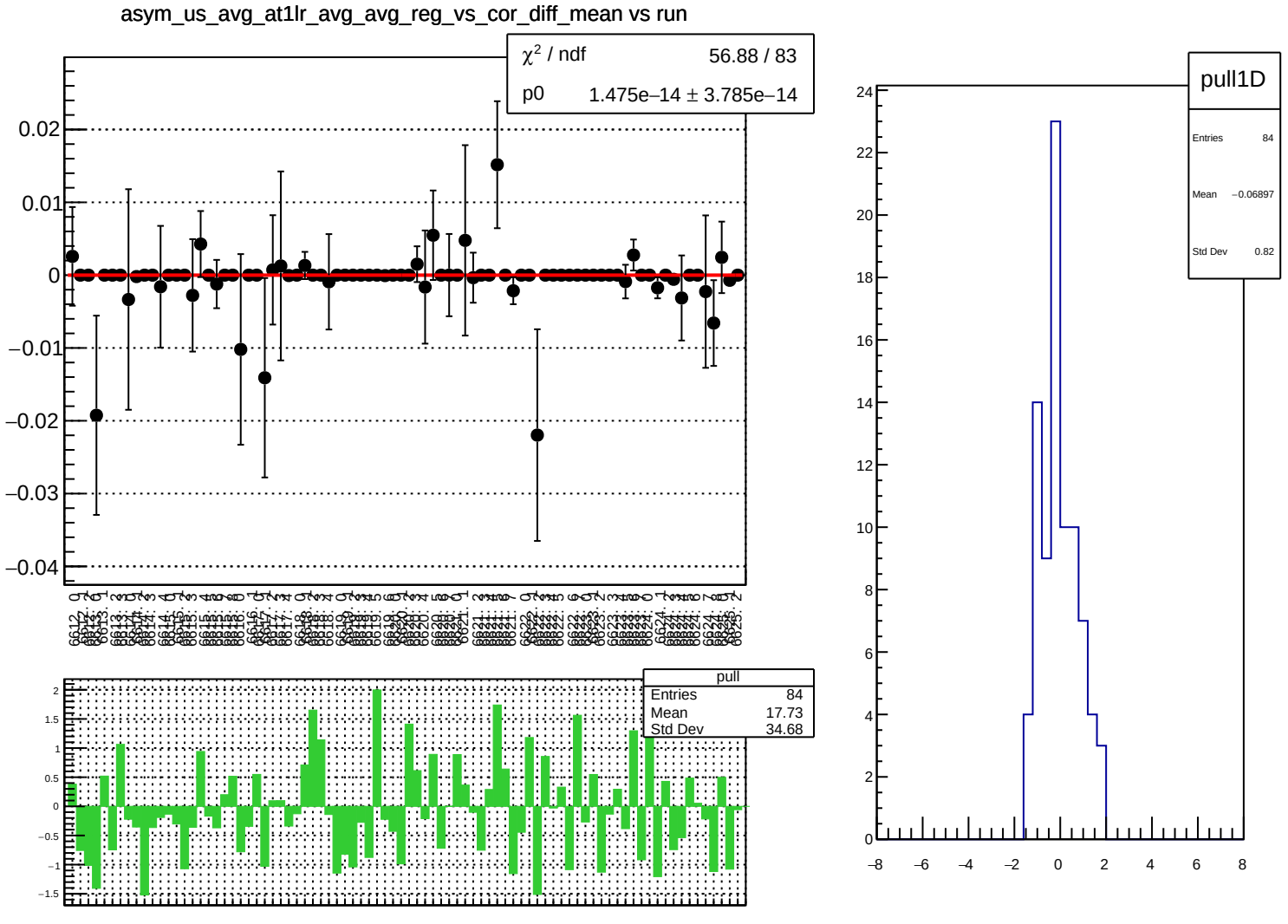

pull1D
Entries 84
Mean 0.005006
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

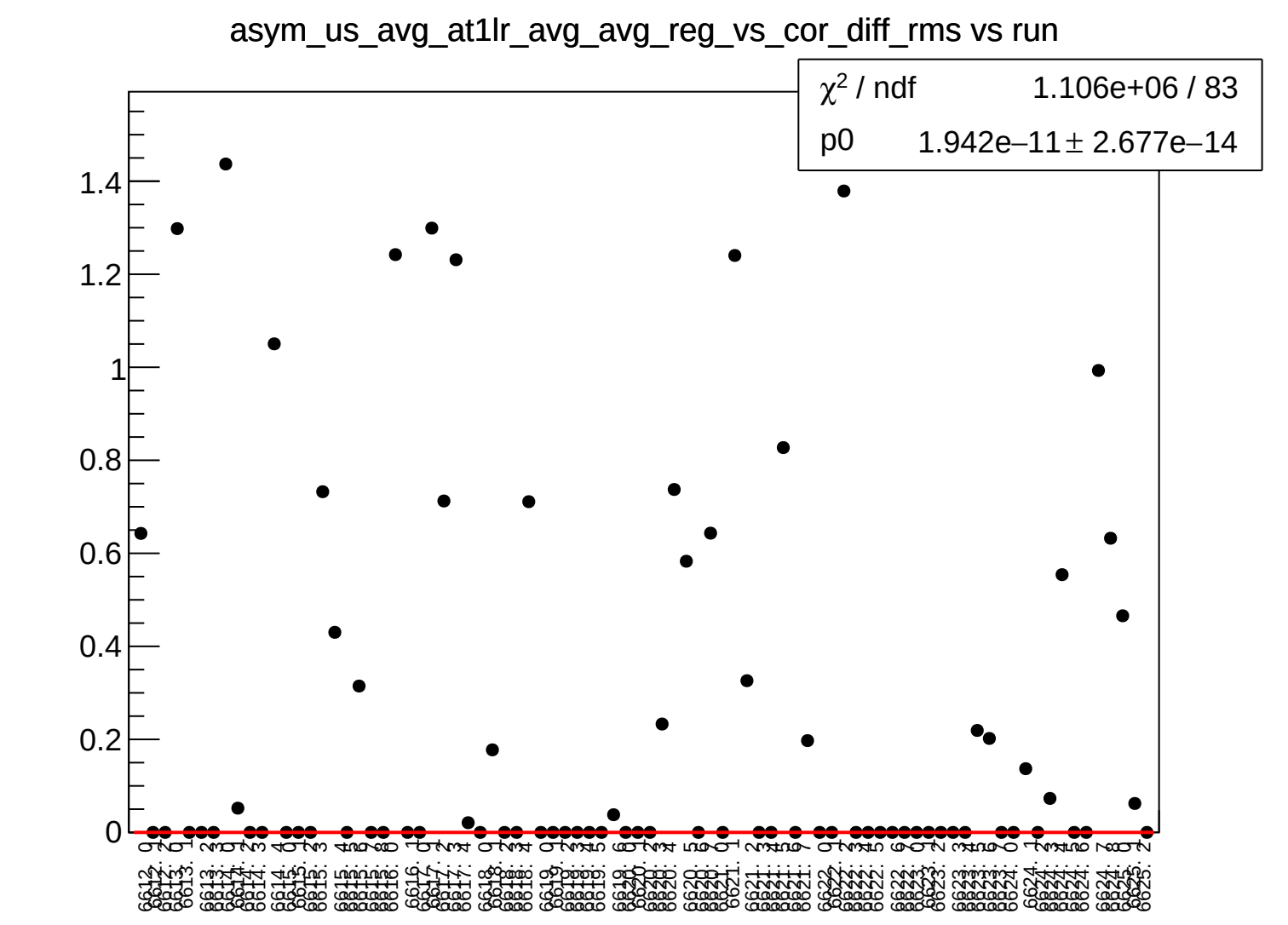

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1735 / 83
p0 2904 ± 2.274
3200
3100
3000
2900
2800
2700

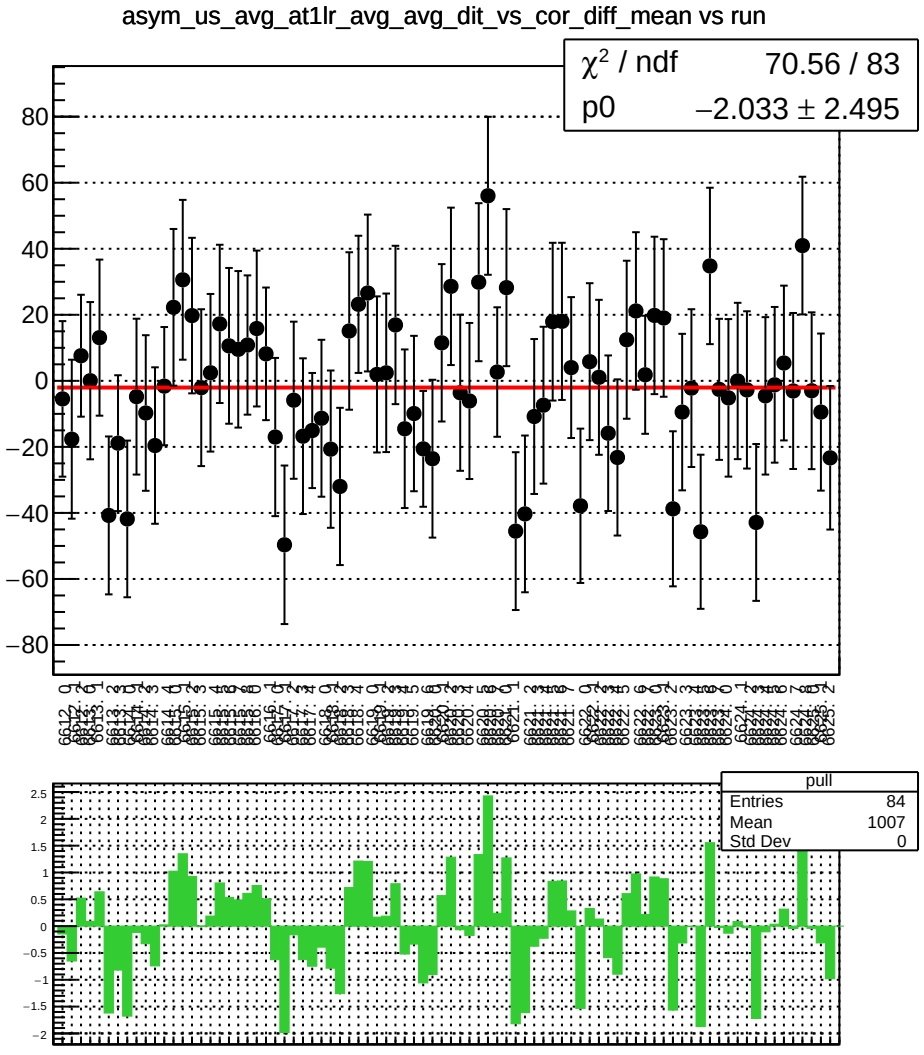

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 91.79 / 83
p0 3243 ± 3654
100
50
0
−50
−100
−150
pull
Entries 84
Mean 79.15
Std Dev 34.68
2
1
0
−1
−2
−3

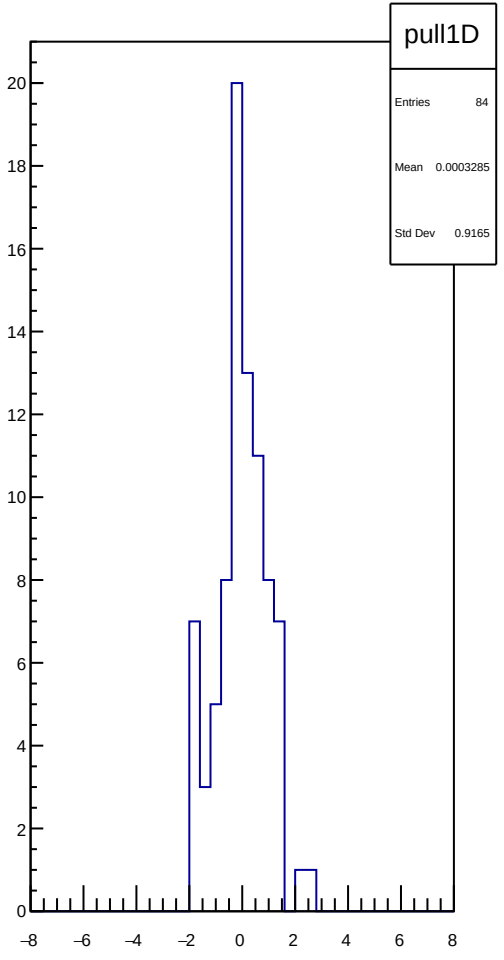

pull1D
Entries 84
Mean −0.007178
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

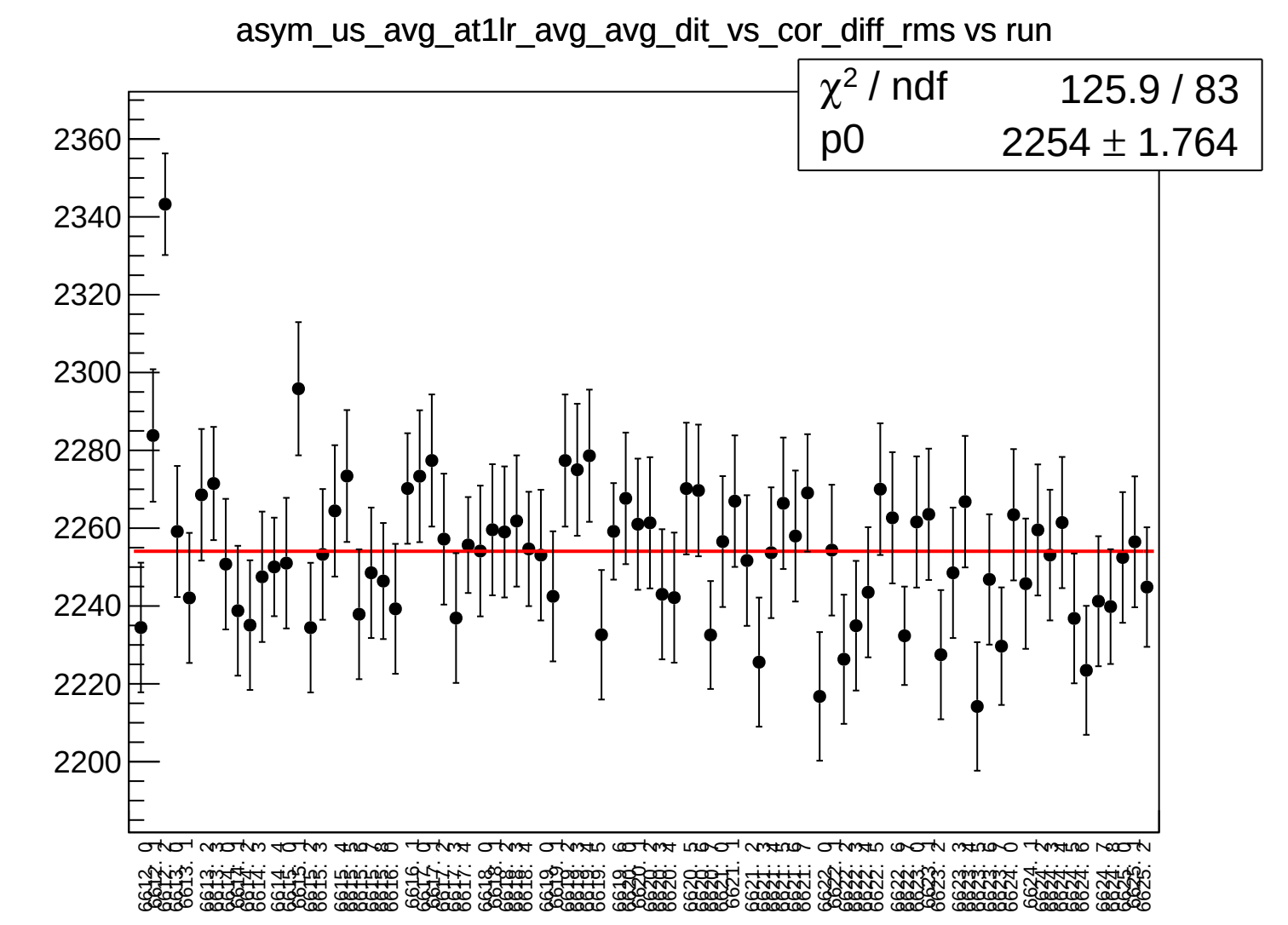

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1199 / 83
p0 3300 ± 2.584
3700
3600
3500
3400
3300
3200
3100

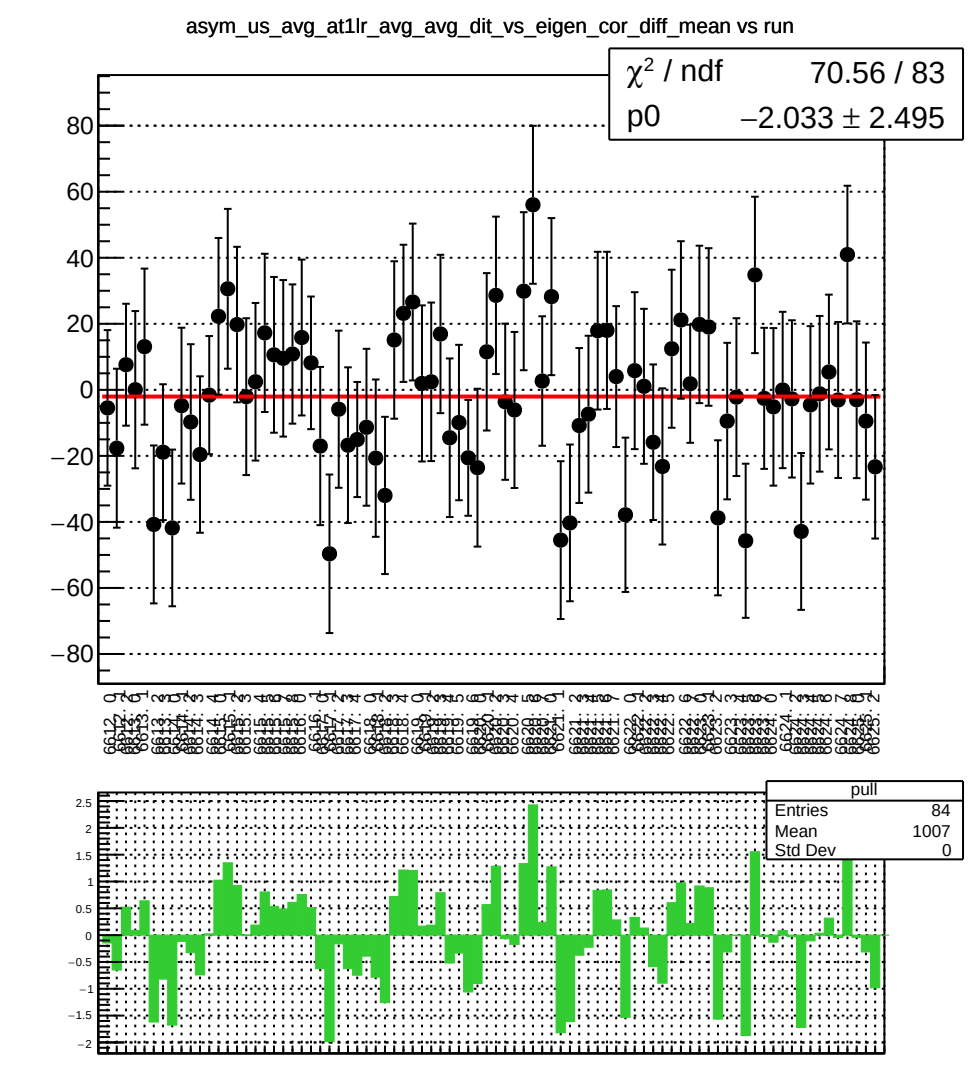

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 56.88 / 83
p0 1.475e−14 ± 3.785e−14
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 84
Mean 17.73
Std Dev 34.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean −0.06897
Std Dev 0.82
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

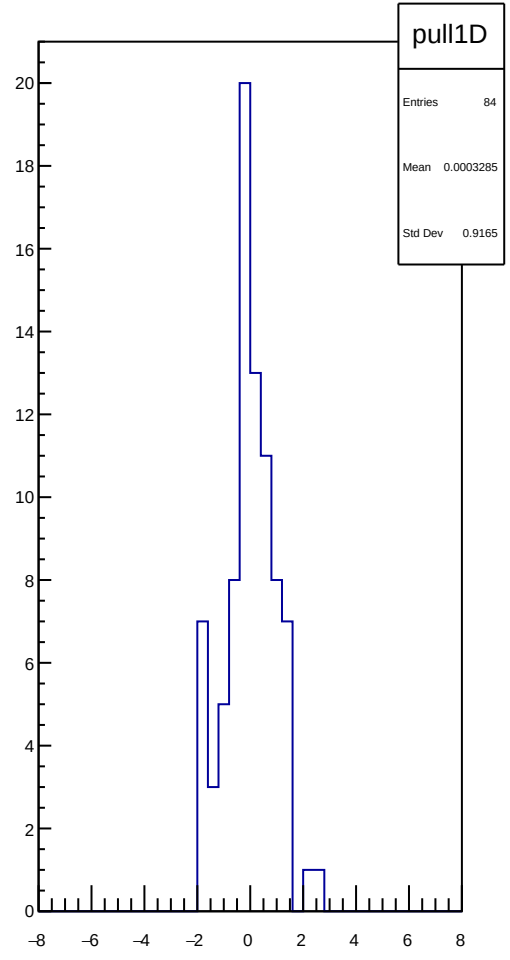

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.106e+06 / 83
p0 1.942e−11 ± 2.677e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

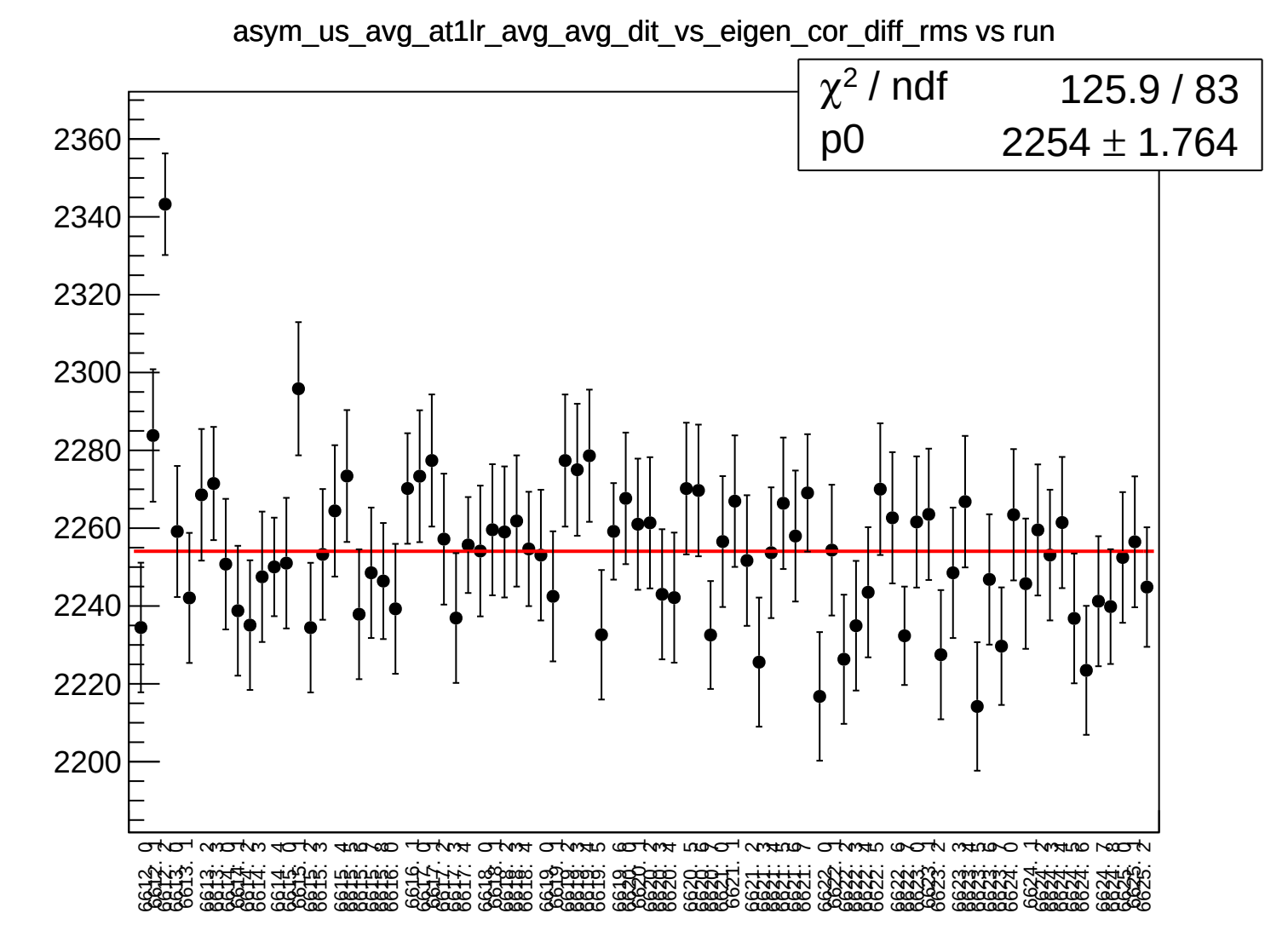

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.56 / 83
p0 −2.033 ± 2.495
pull
Entries 84
Mean 1007
Std Dev 0

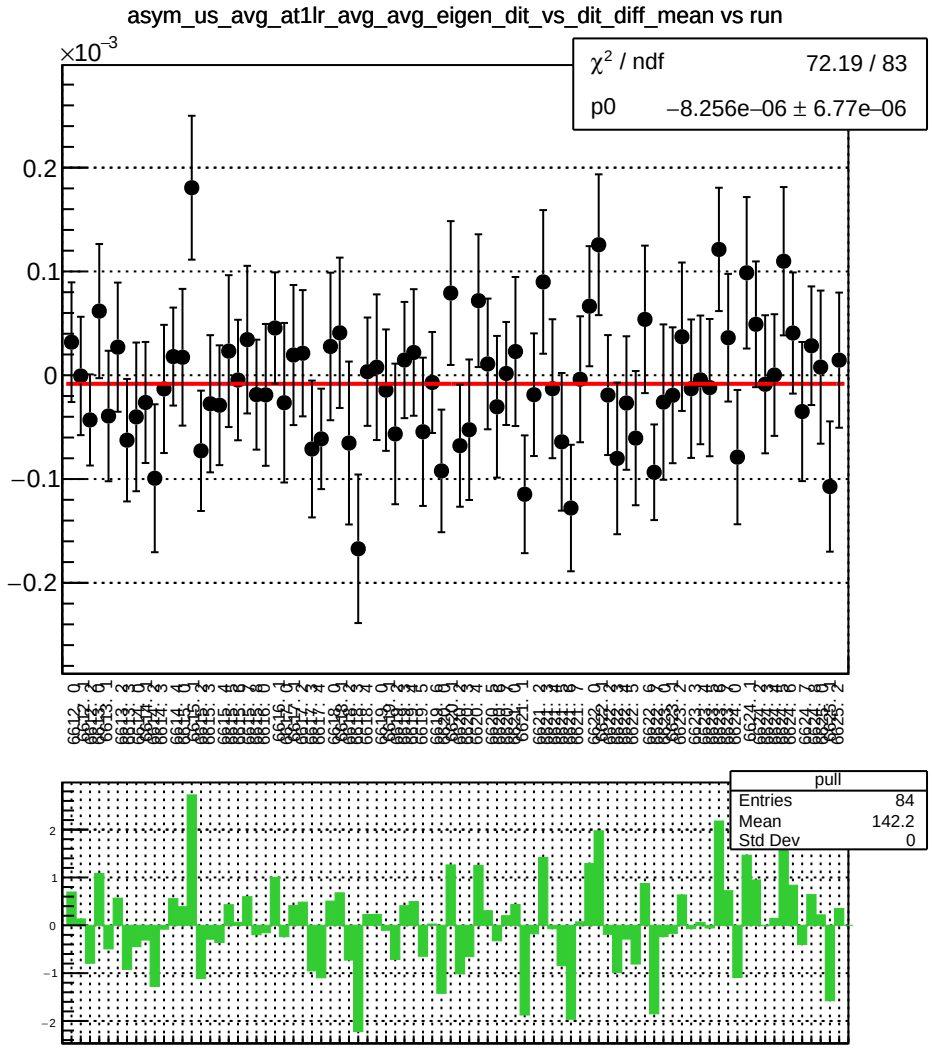

pull1D
Entries 84
Mean 0.0003285
Std Dev 0.9165

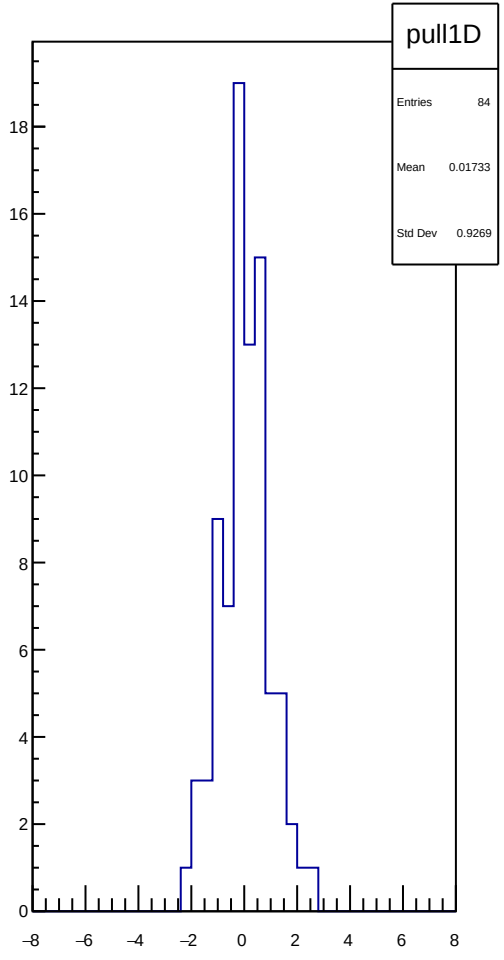

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 125.9 / 83
p0 2254 ± 1.764
2360
2340
2320
2300
2280
2260
2240
2220
2200

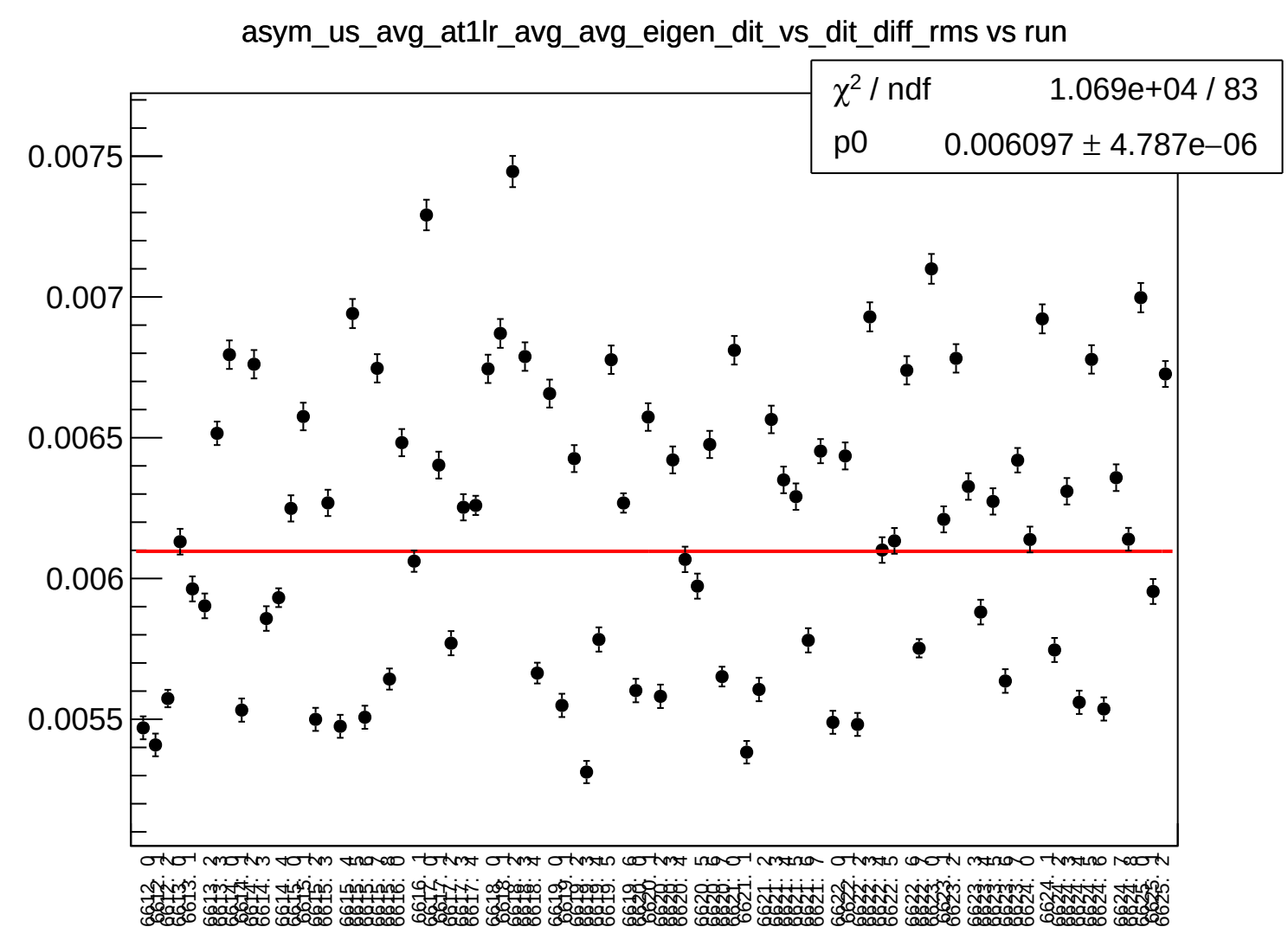

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.56 / 83
p0 −2.033 ± 2.495
pull
Entries 84
Mean 1007
Std Dev 0

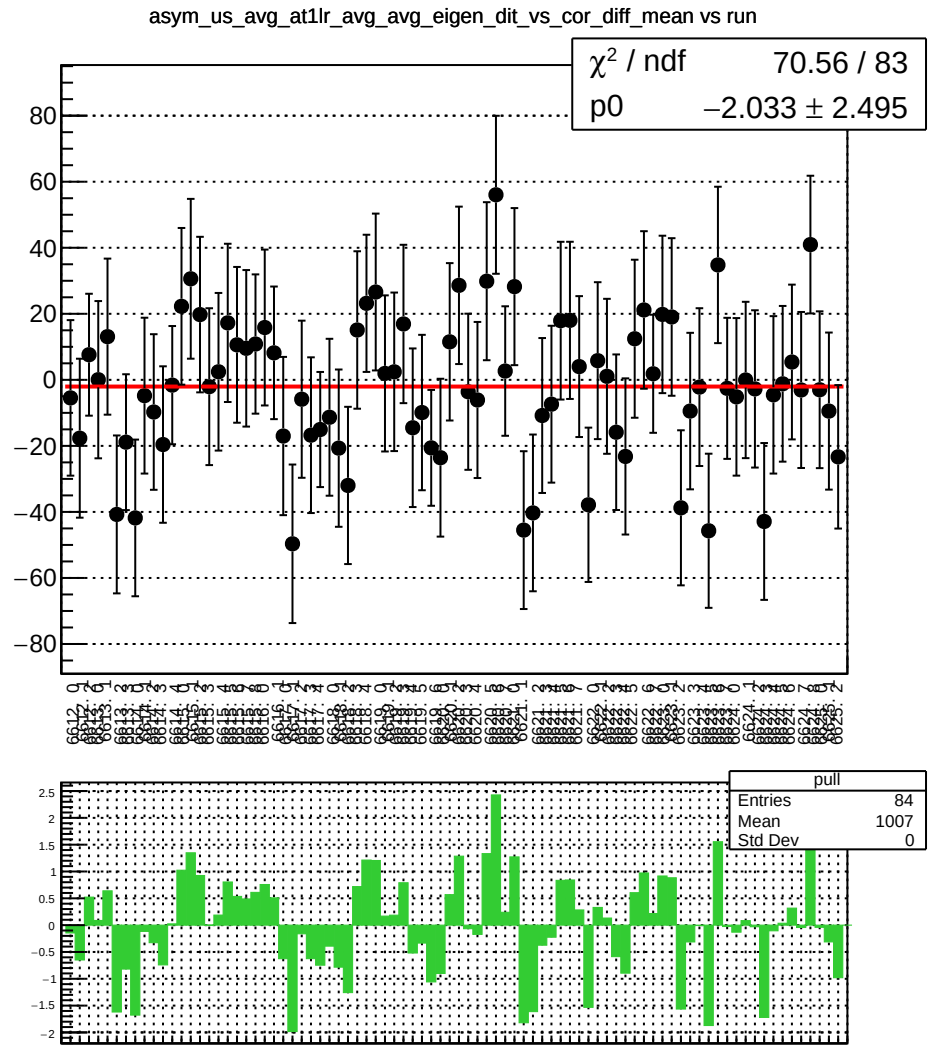

pull1D
Entries 84
Mean 0.0003285
Std Dev 0.9165

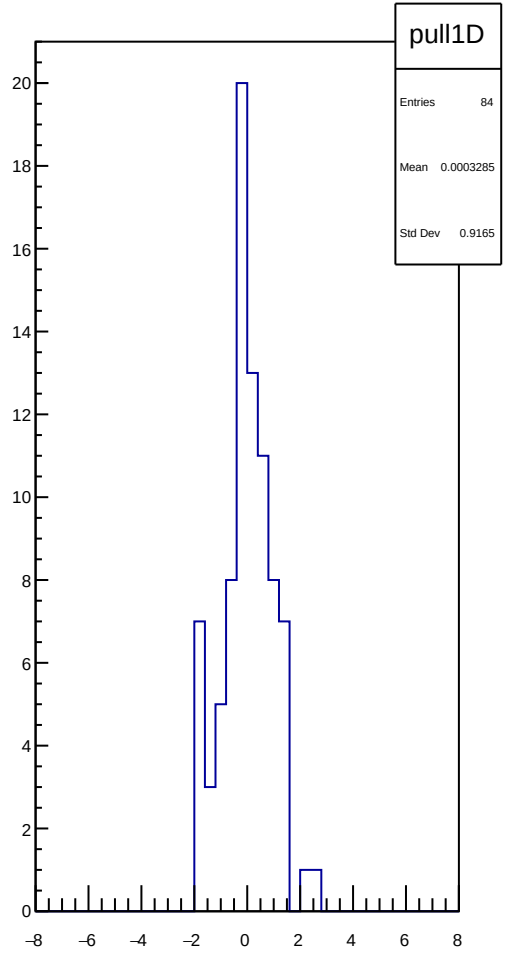

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 125.9 / 83
p0 2254 ± 1.764
2360
2340
2320
2300
2280
2260
2240
2220
2200

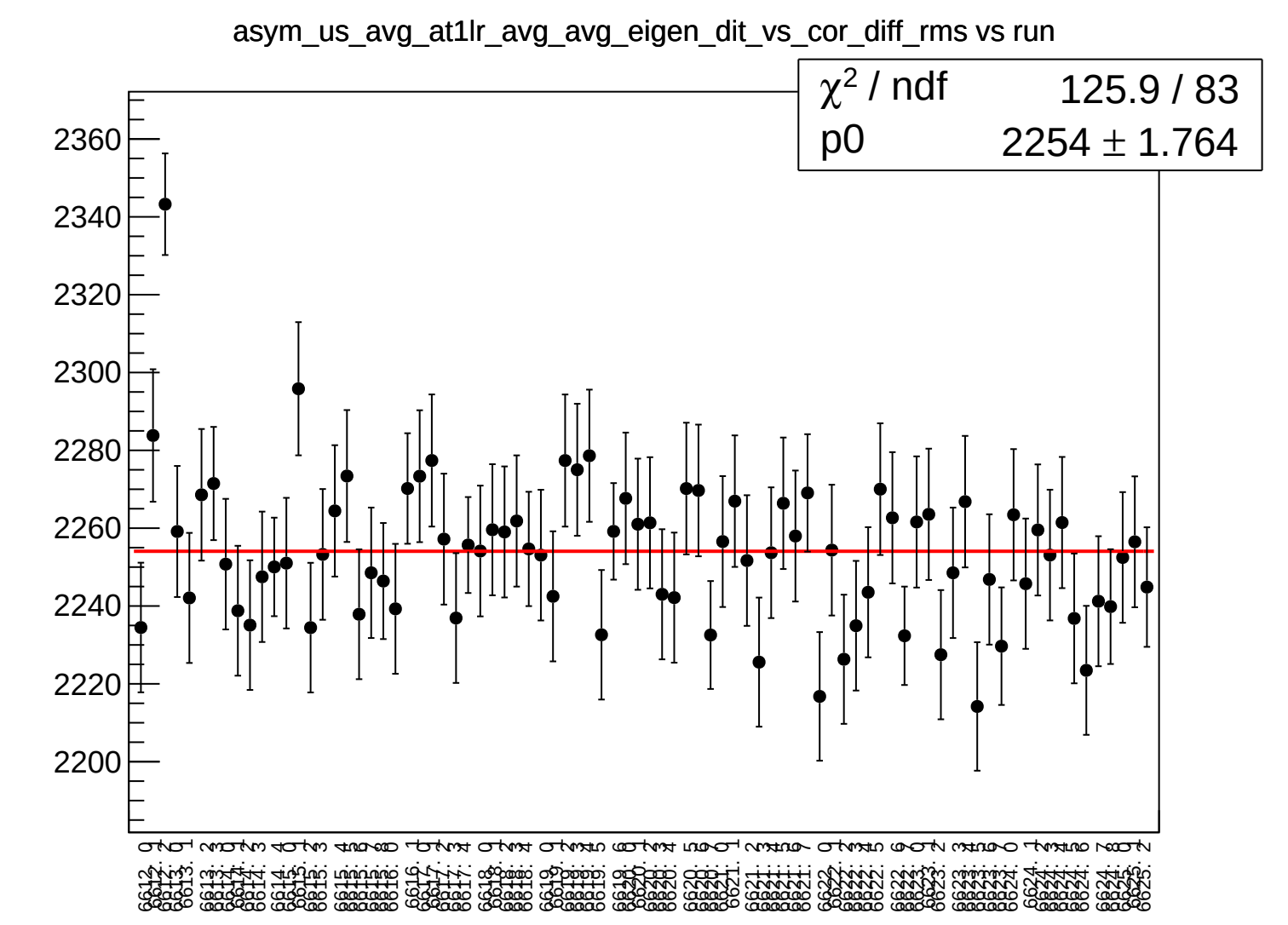

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.19 / 83
p0 −8.256e−06 ± 6.77e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 84
Mean 142.2
Std Dev 0
2
1
0
−1
−2

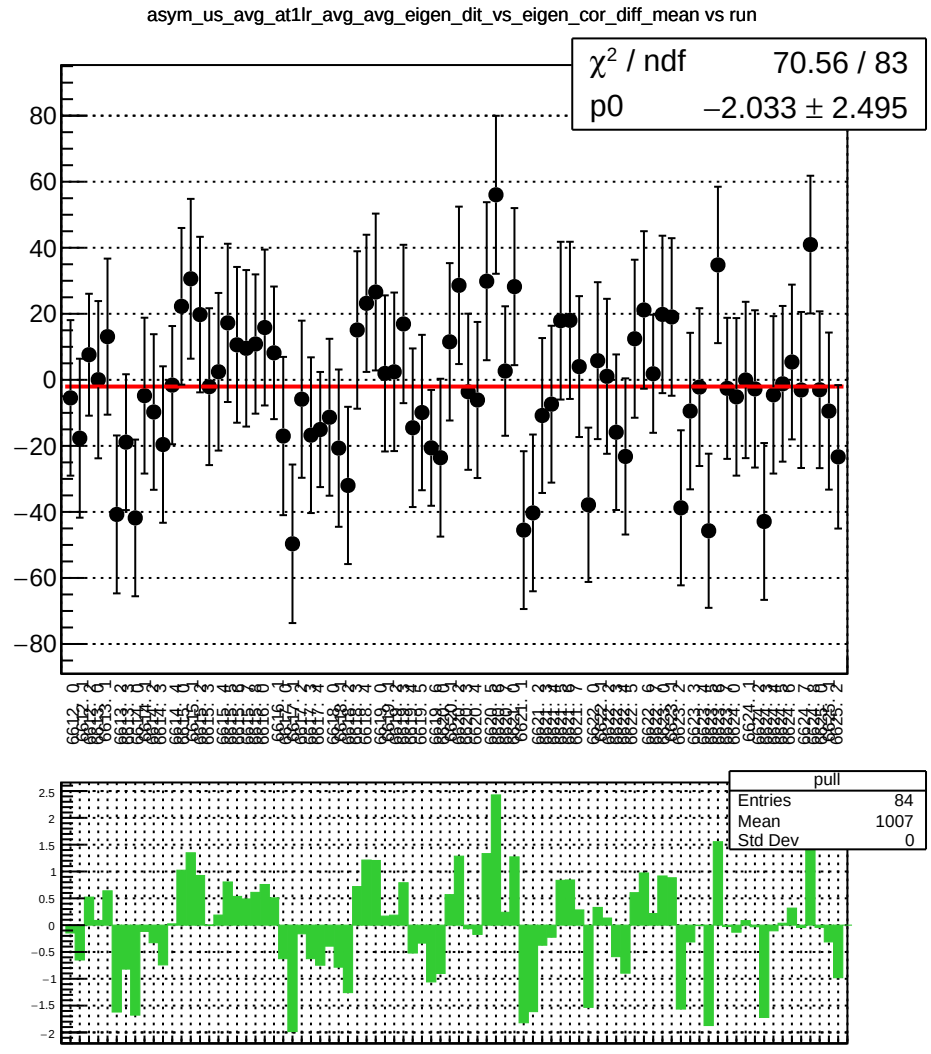

pull1D
Entries 84
Mean 0.01733
Std Dev 0.9269
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

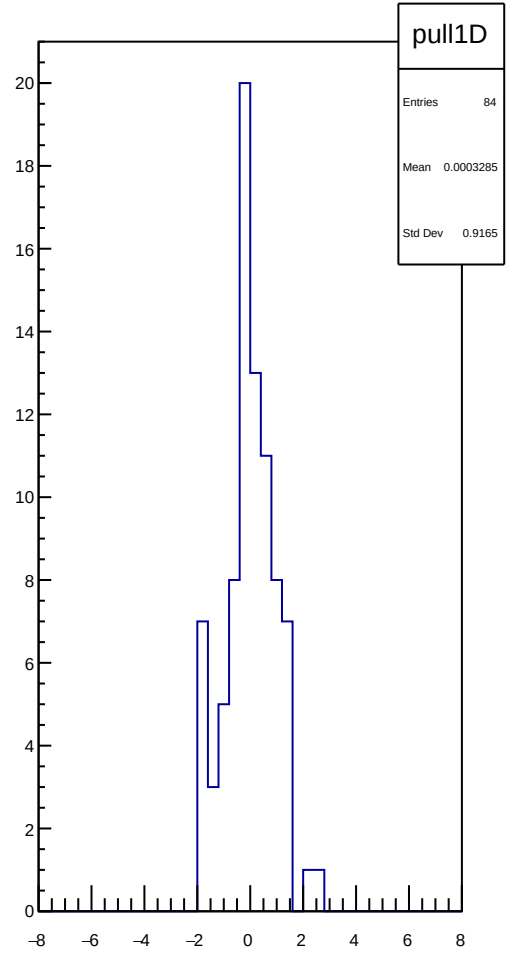

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.069e+04 / 83
p0 0.006097 ± 4.787e−06
0.0075
0.007
0.0065
0.006
0.0055

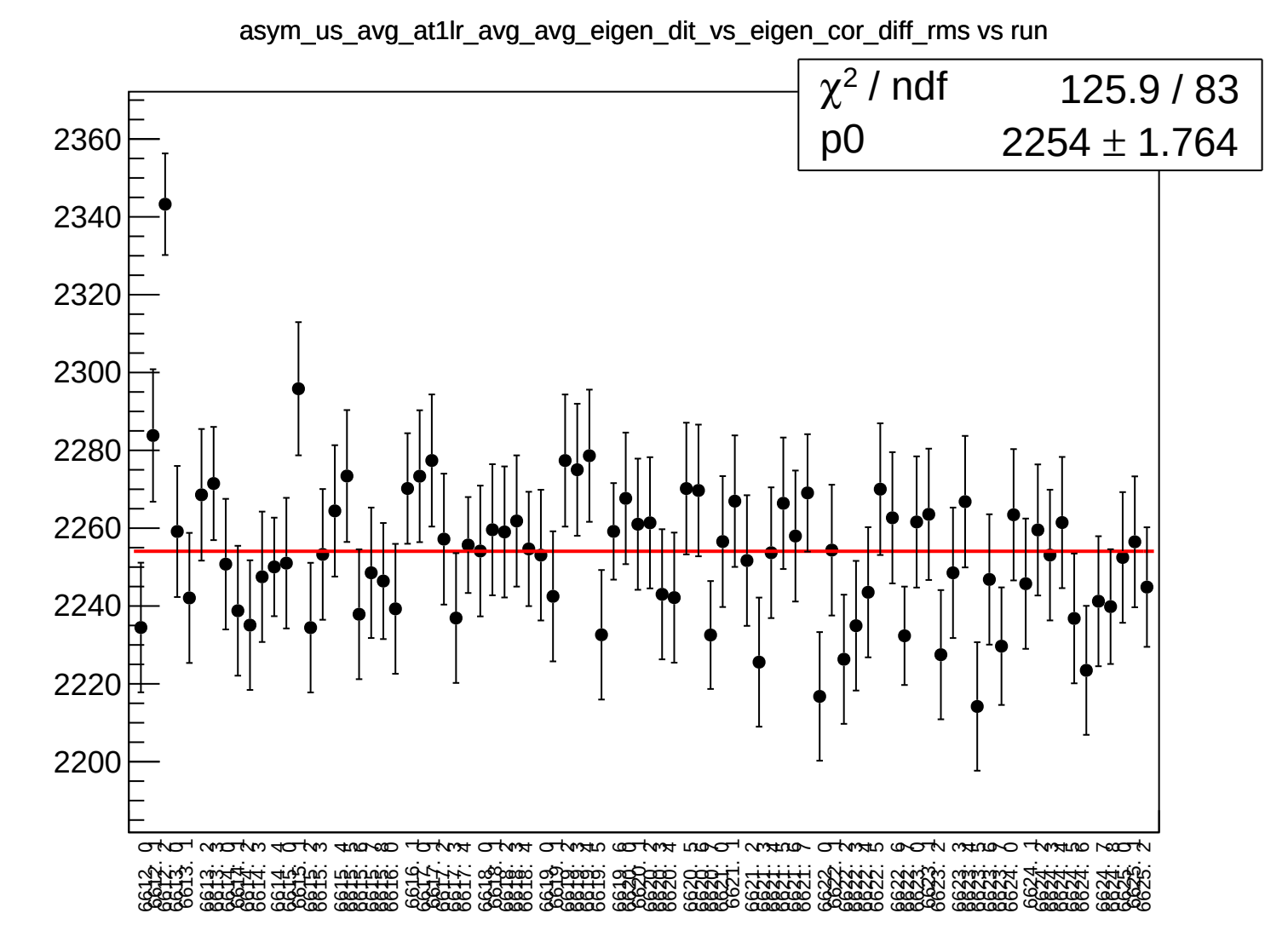

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.56 / 83
p0 −2.033 ± 2.495
pull
Entries 84
Mean 1007
Std Dev 0

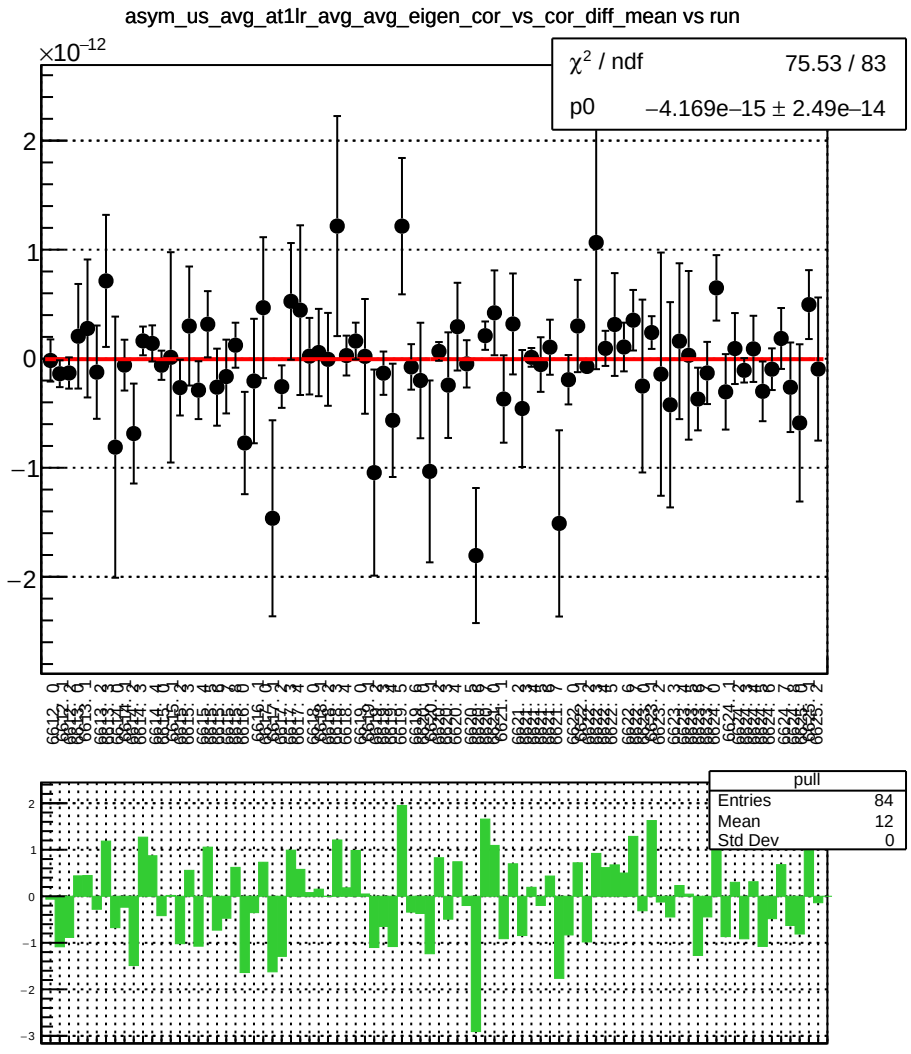

pull1D
Entries 84
Mean 0.0003285
Std Dev 0.9165

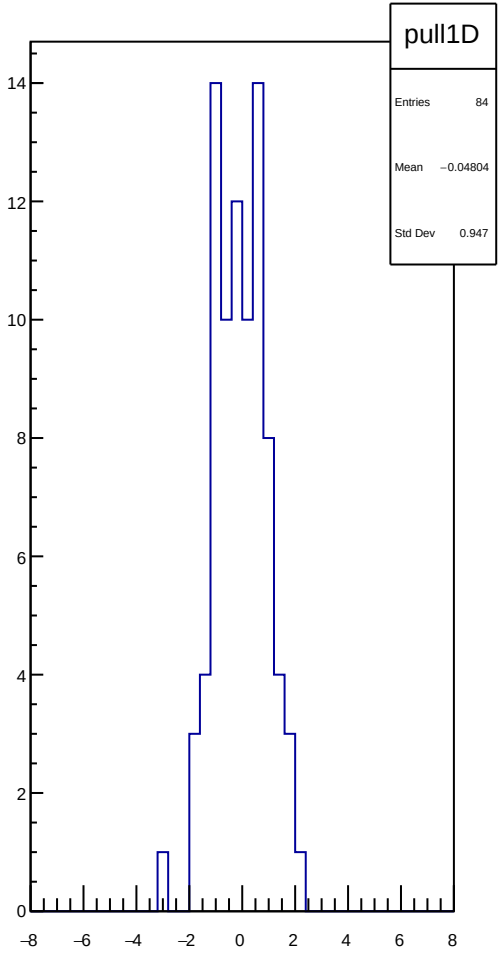

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 125.9 / 83
p0 2254 ± 1.764
2360
2340
2320
2300
2280
2260
2240
2220
2200

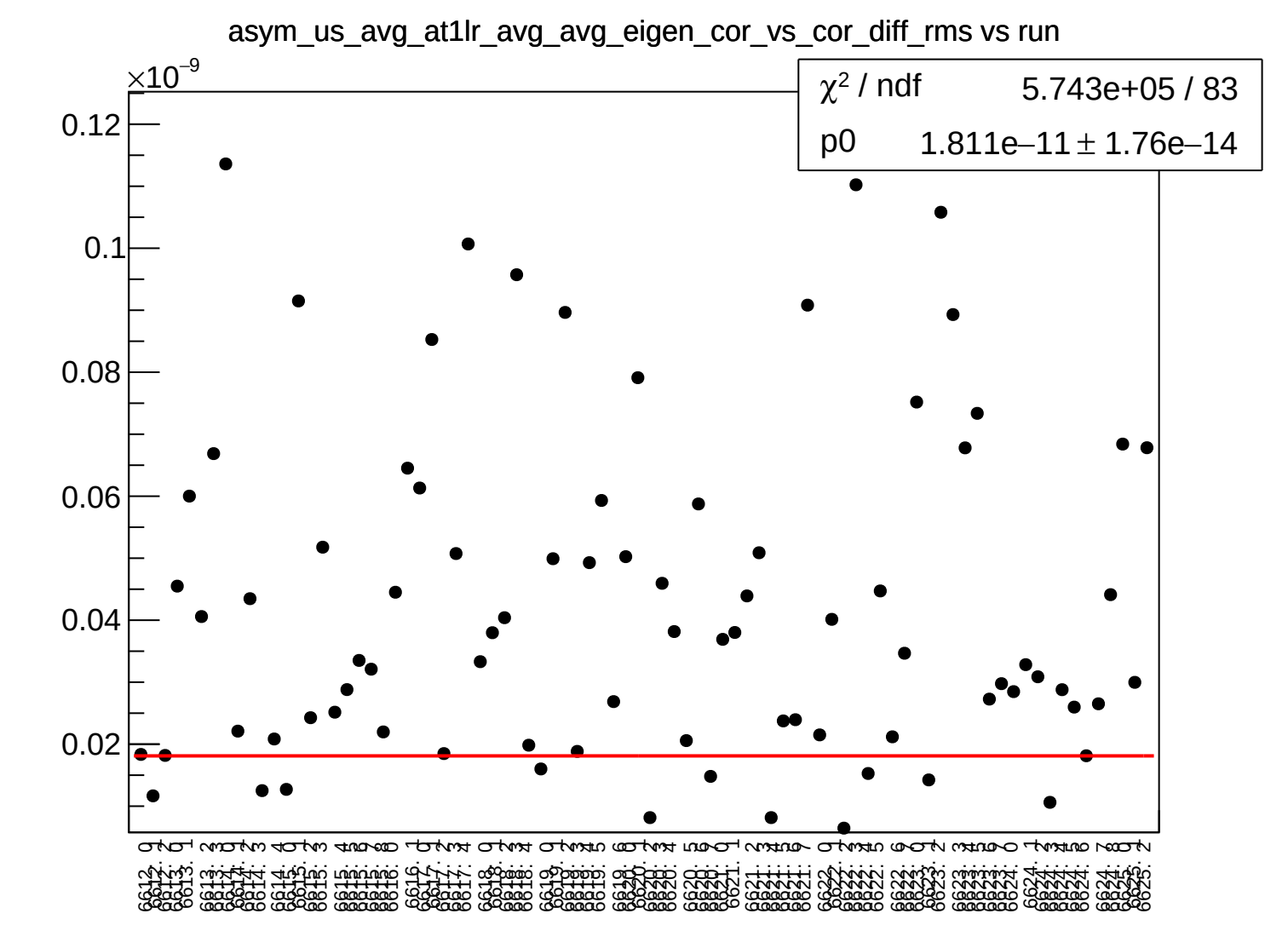

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.56 / 83
p0 −2.033 ± 2.495
pull
Entries 84
Mean 1007
Std Dev 0

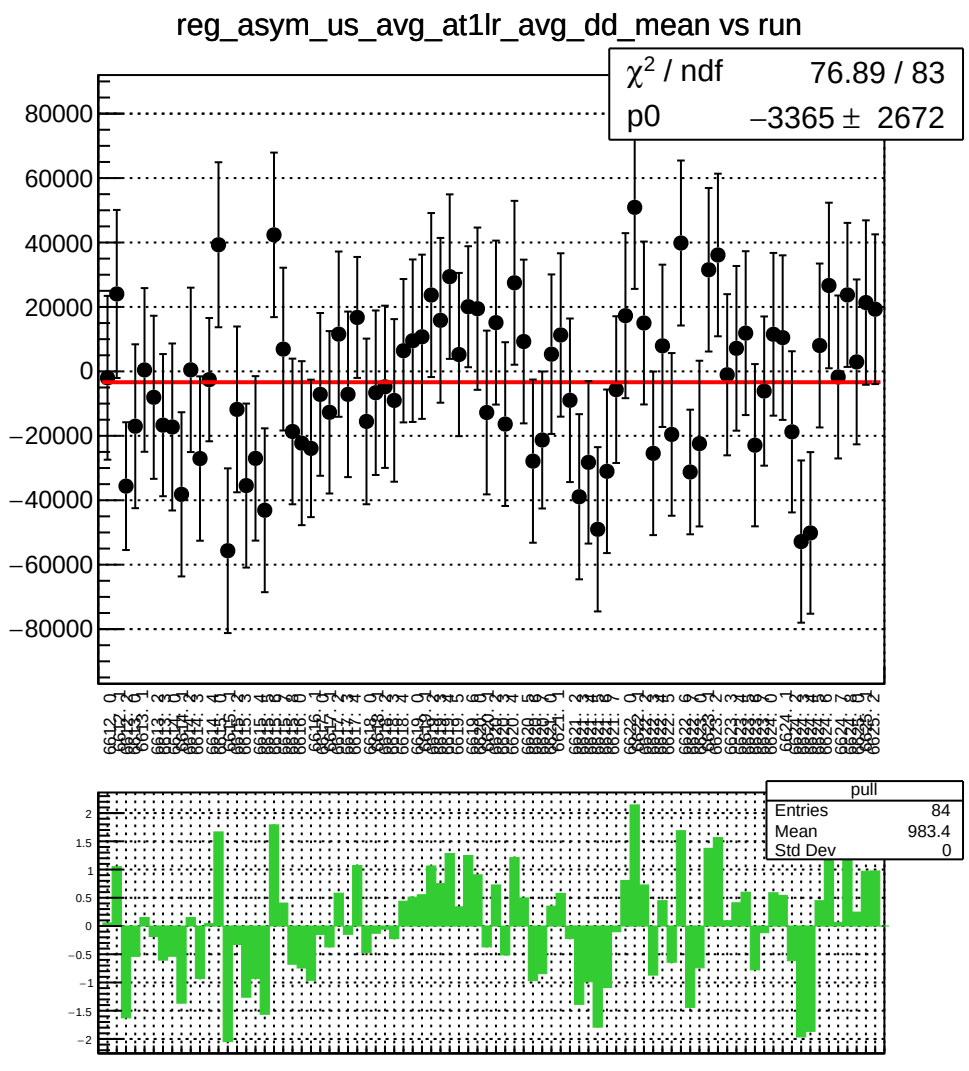

pull1D
Entries 84
Mean 0.0003285
Std Dev 0.9165

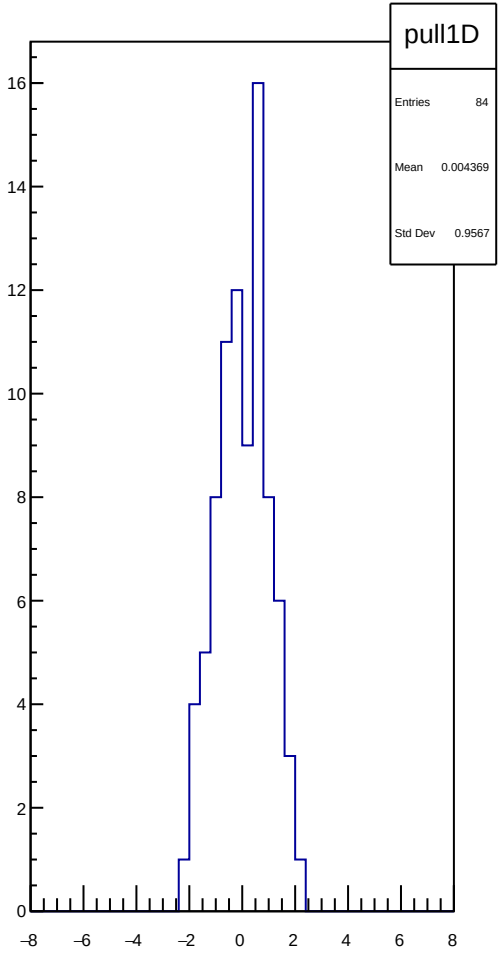

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 125.9 / 83
p0 2254 ± 1.764
2360
2340
2320
2300
2280
2260
2240
2220
2200

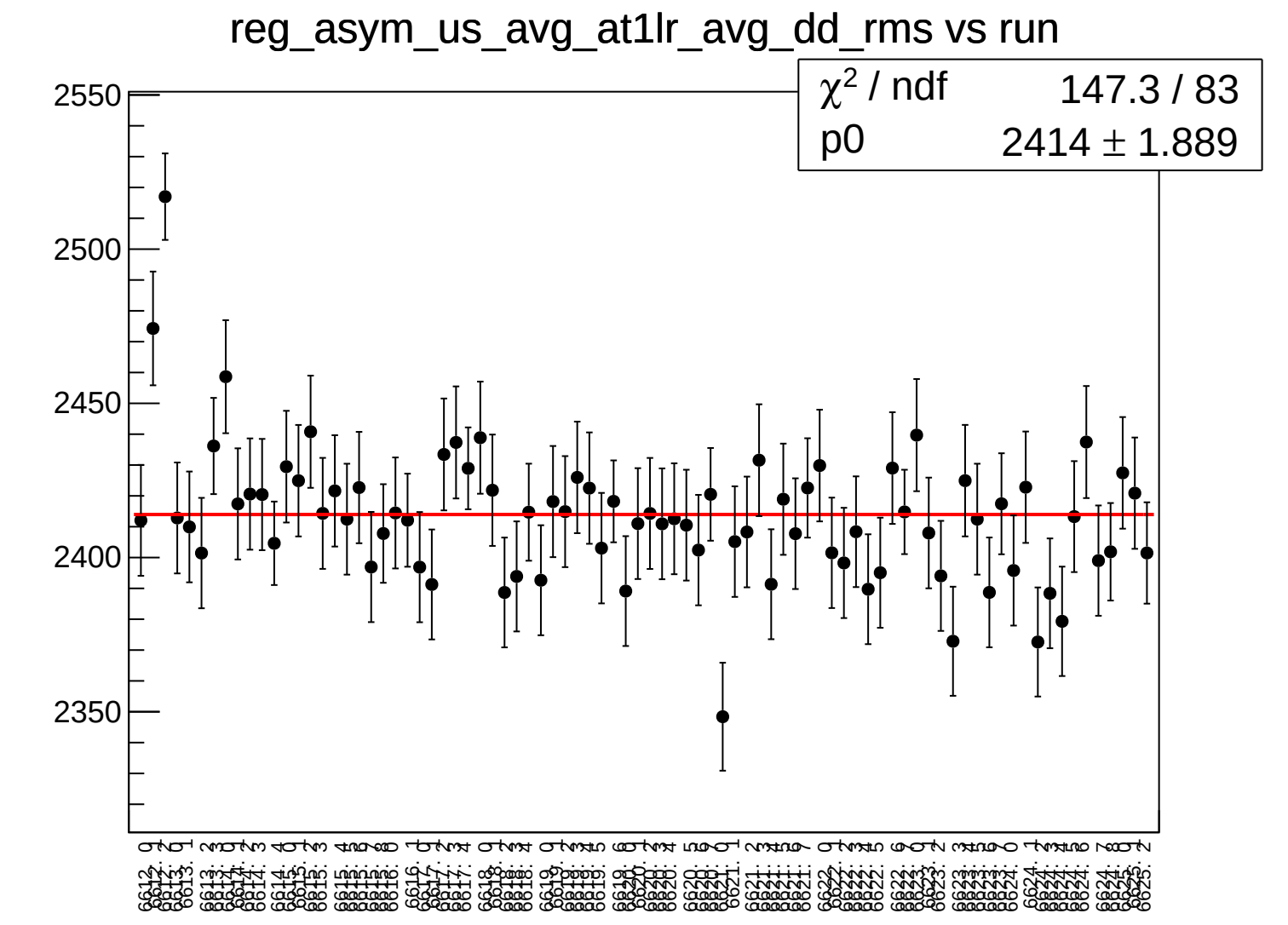

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.53 / 83
p0 −4.169e−15 ± 2.49e−14
pull
Entries 84
Mean 12
Std Dev 0

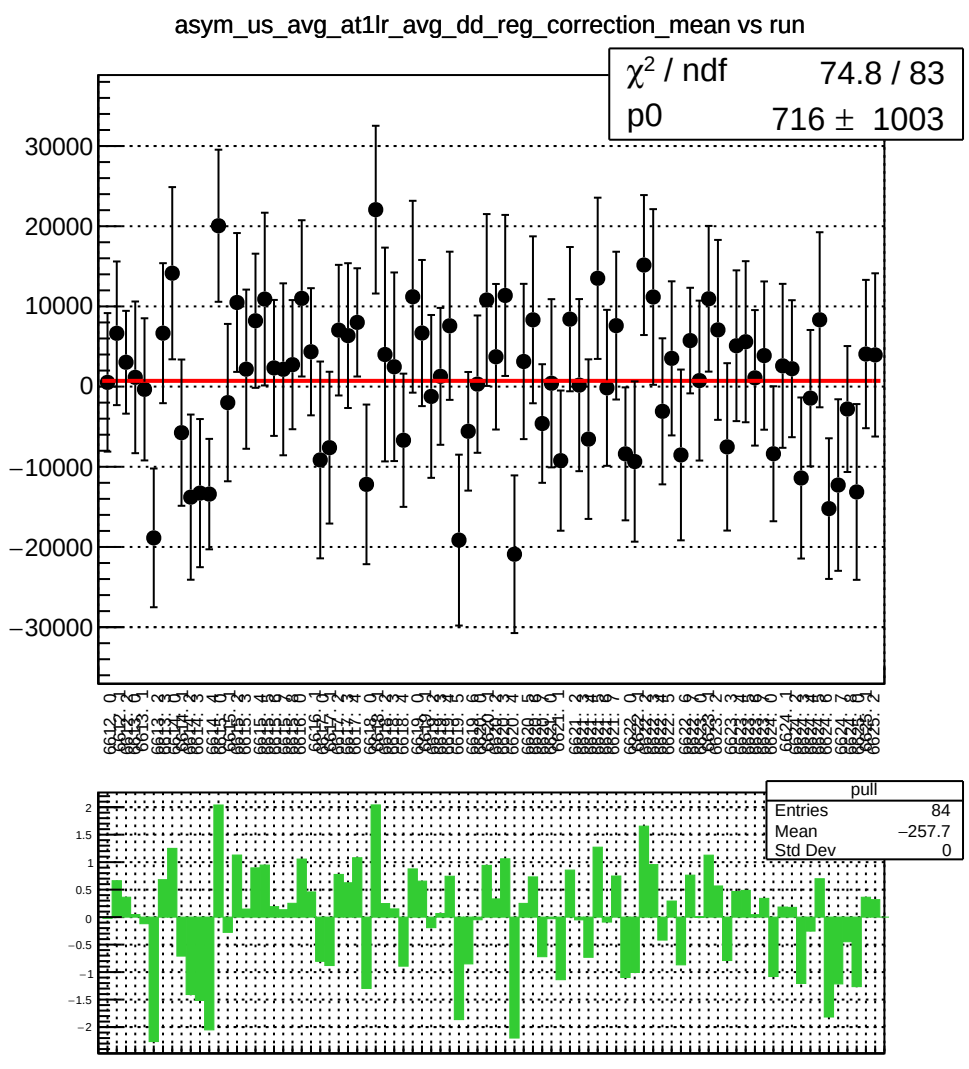

pull1D
Entries 84
Mean −0.04804
Std Dev 0.947

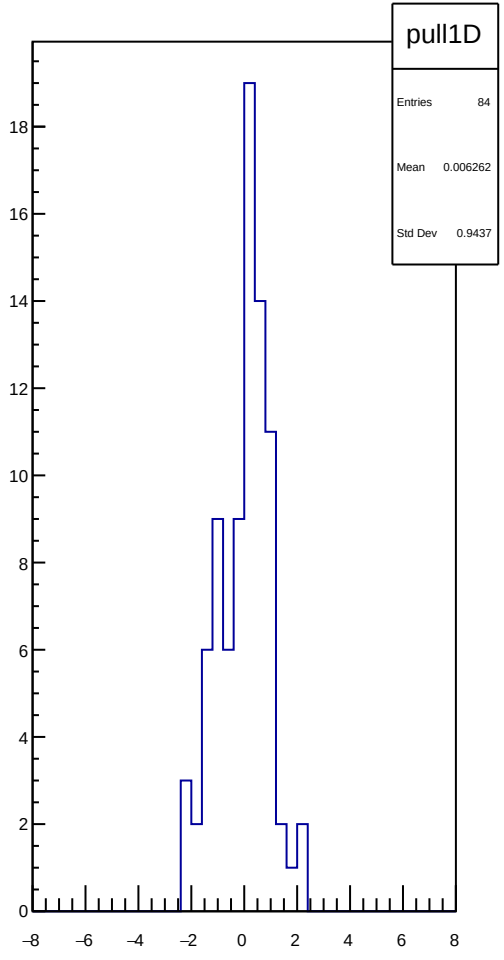

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.743e+05 / 83
p0 1.811e−11 ± 1.76e−14
0.12
0.1
0.08
0.06
0.04
0.02

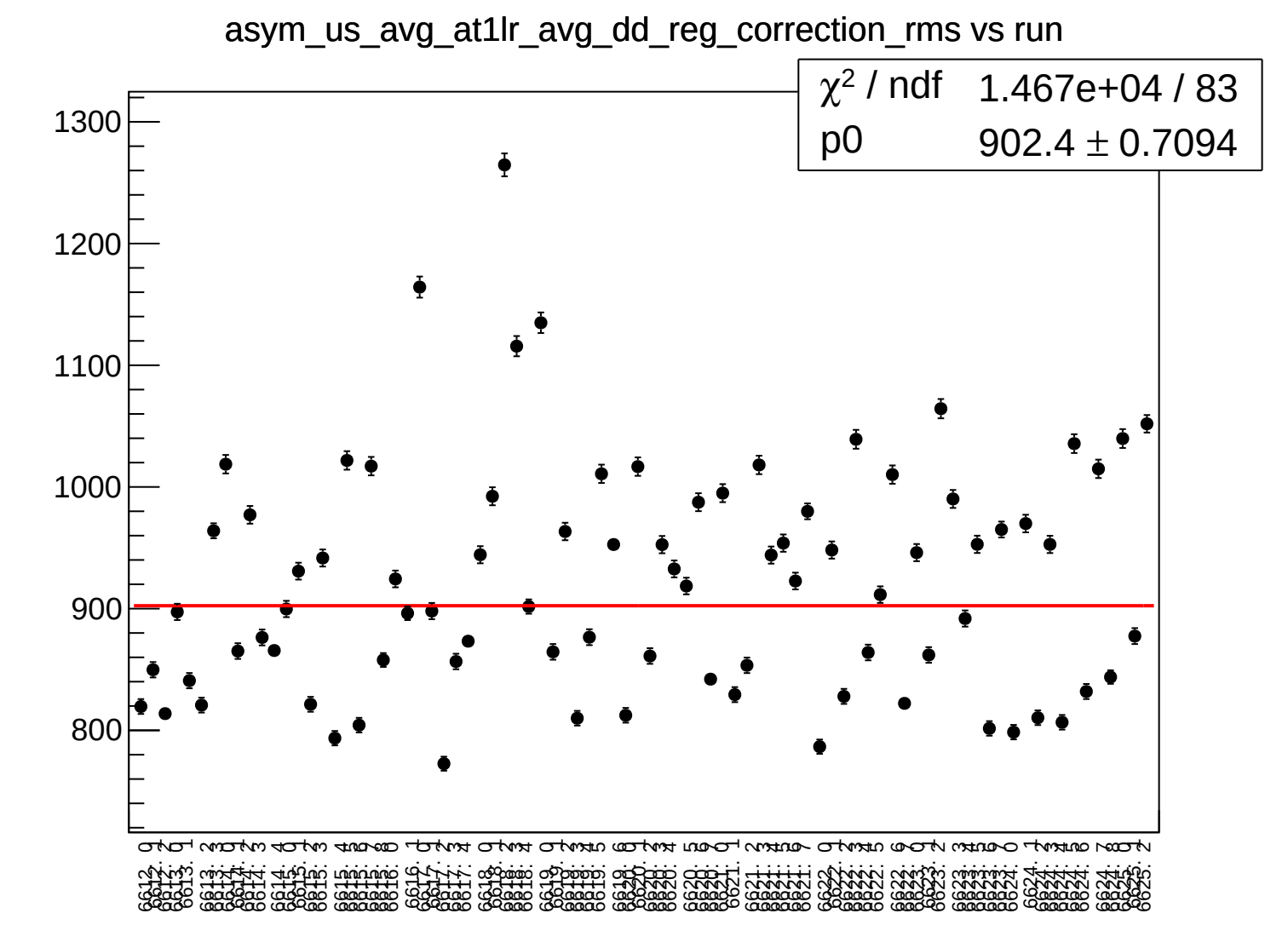

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 76.89 / 83
p0 −3365 ± 2672
pull
Entries 84
Mean 983.4
Std Dev 0

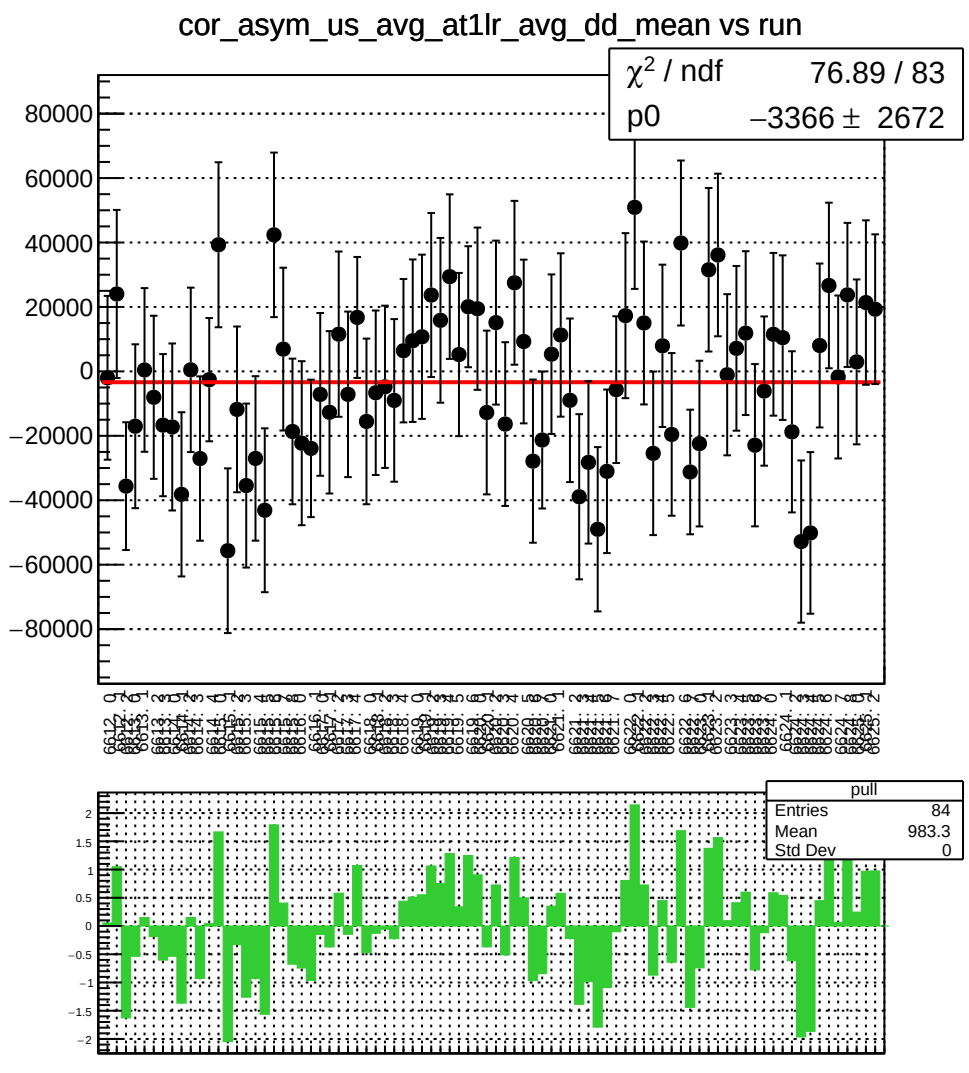

pull1D
Entries 84
Mean 0.004369
Std Dev 0.9567

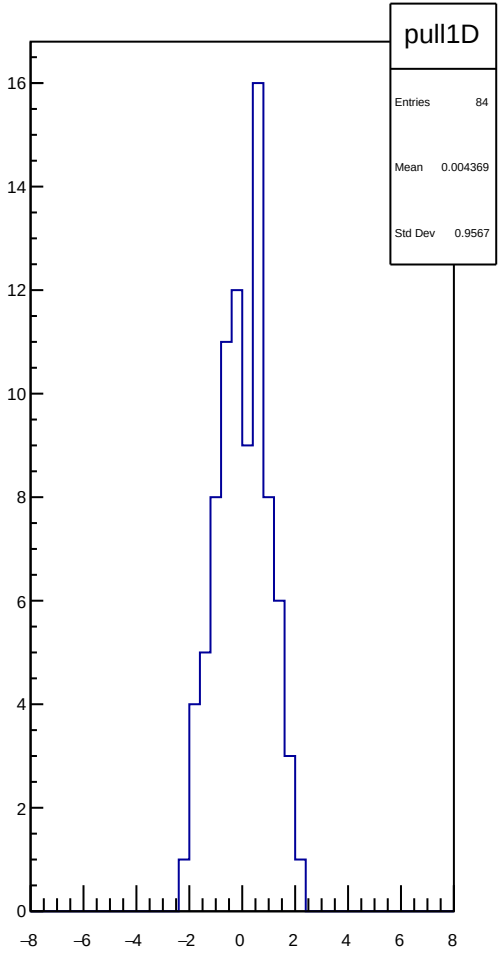

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 147.3 / 83
p0 2414 ± 1.889
2550
2500
2450
2400
2350

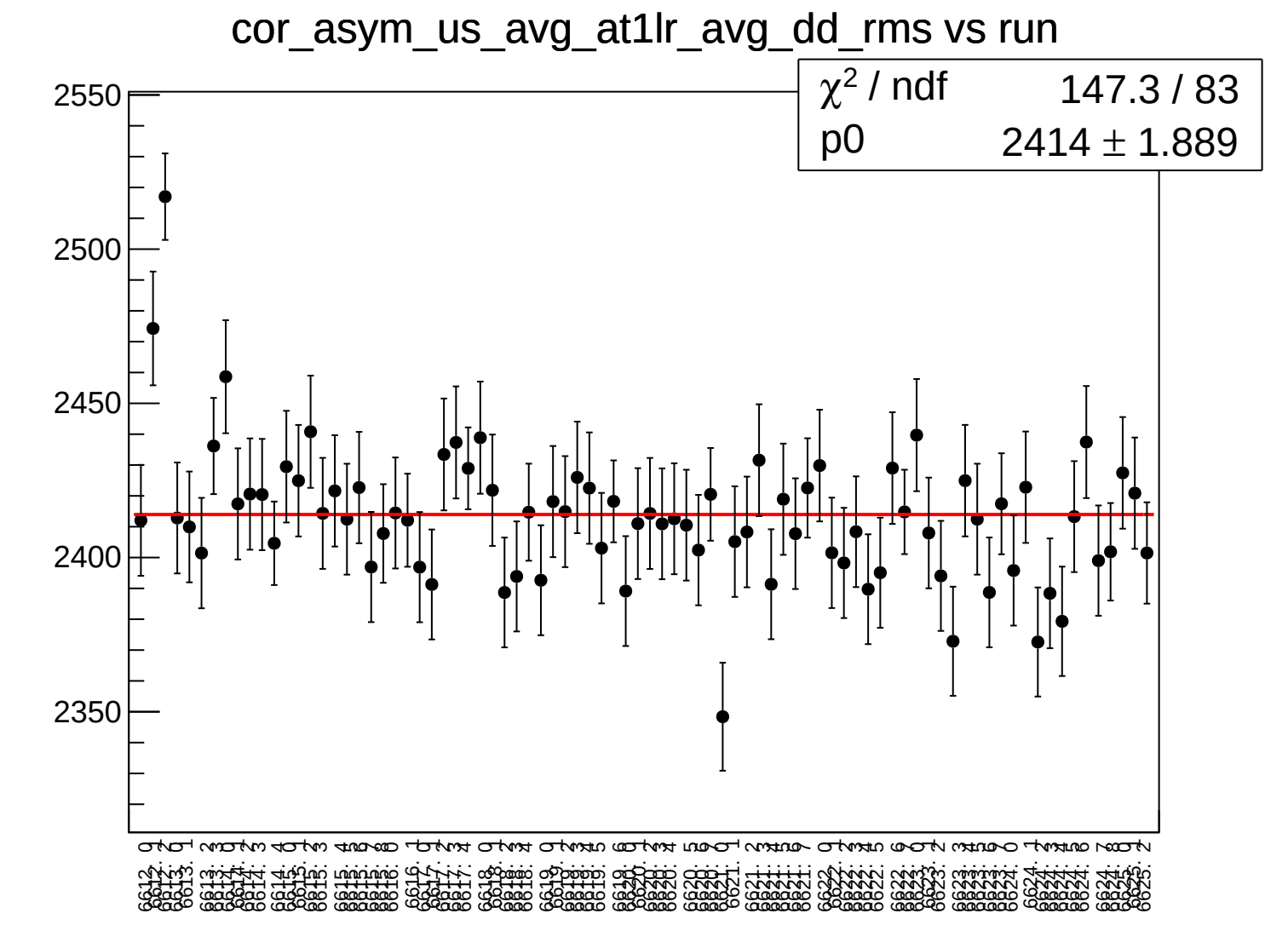

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 74.8 / 83
p0 716 ± 1003
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −257.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

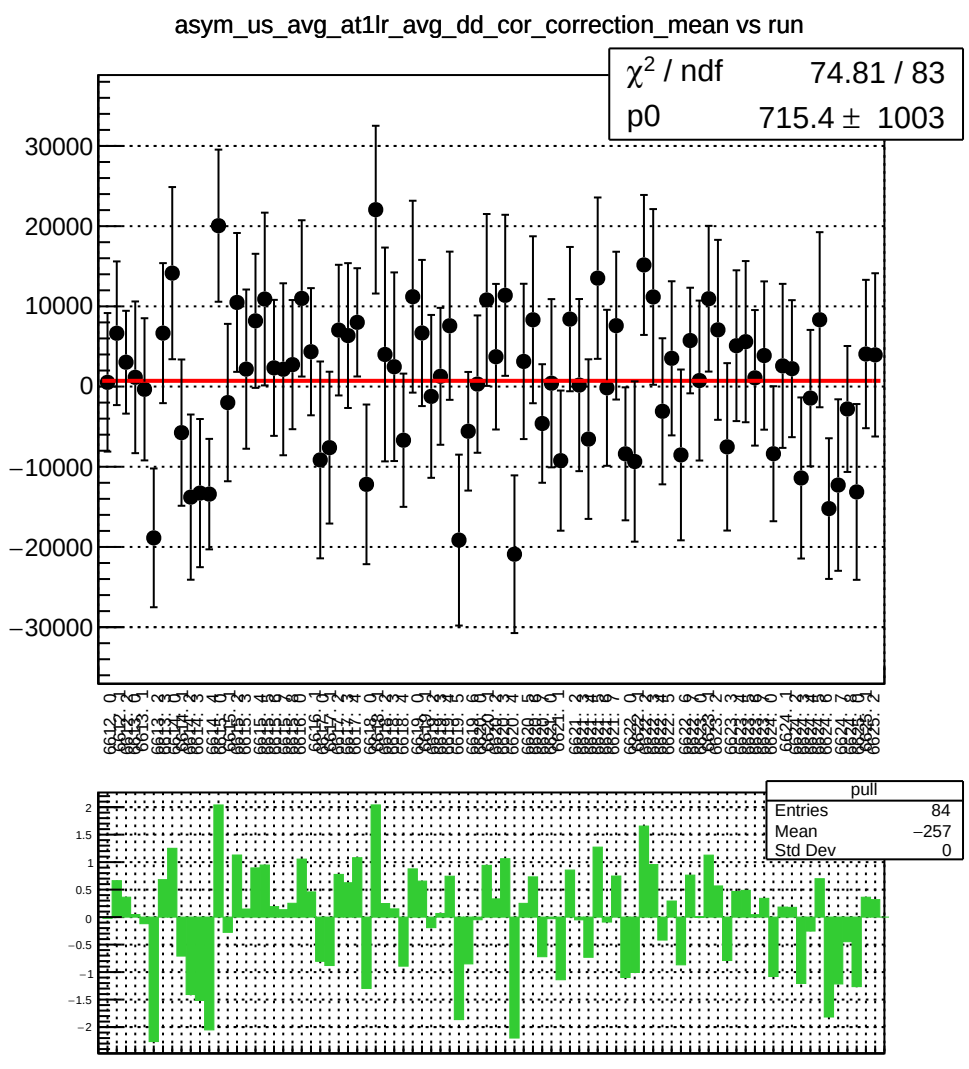

pull1D
Entries 84
Mean 0.006262
Std Dev 0.9437
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

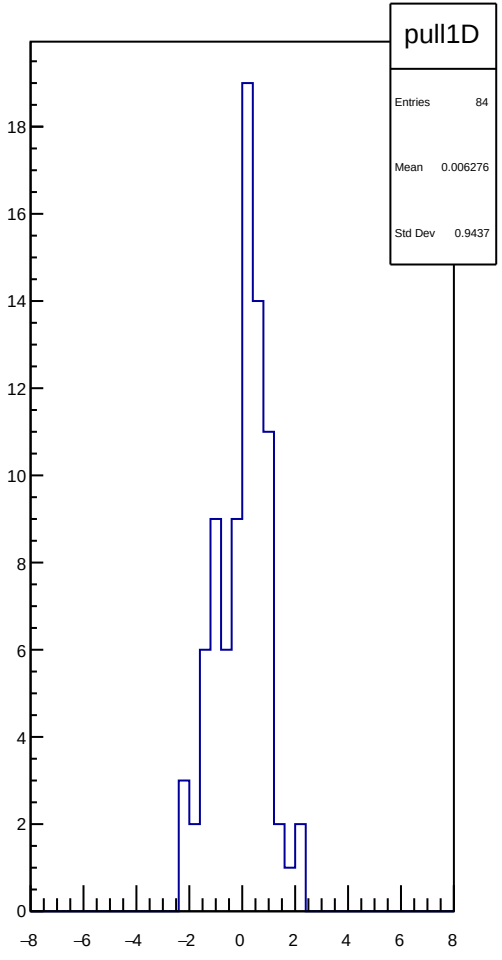

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.467e+04 / 83
p0 902.4 ± 0.7094
1300
1200
1100
1000
900
800

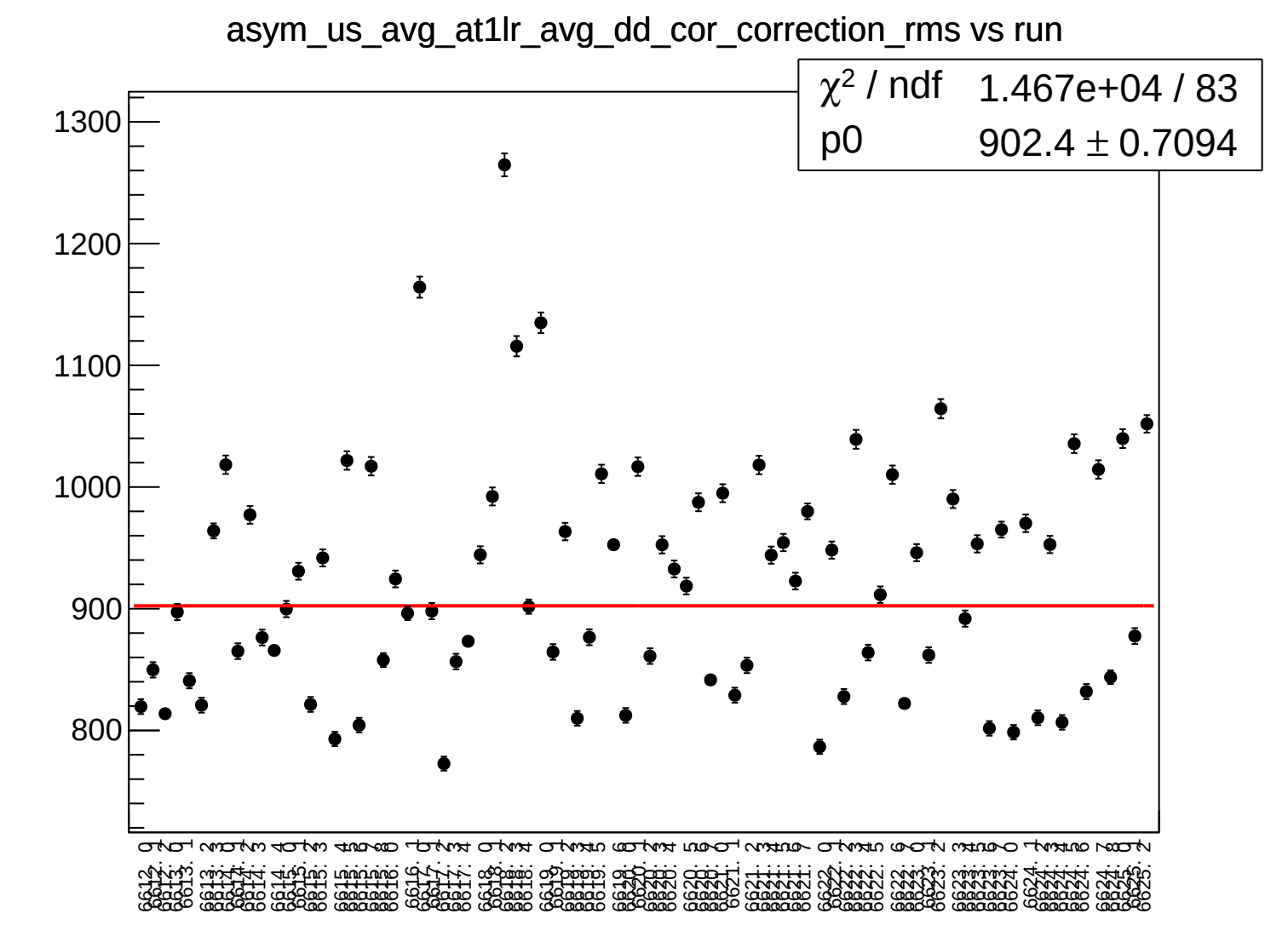

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 76.89 / 83
p0 −3366 ± 2672
pull
Entries 84
Mean 983.3
Std Dev 0

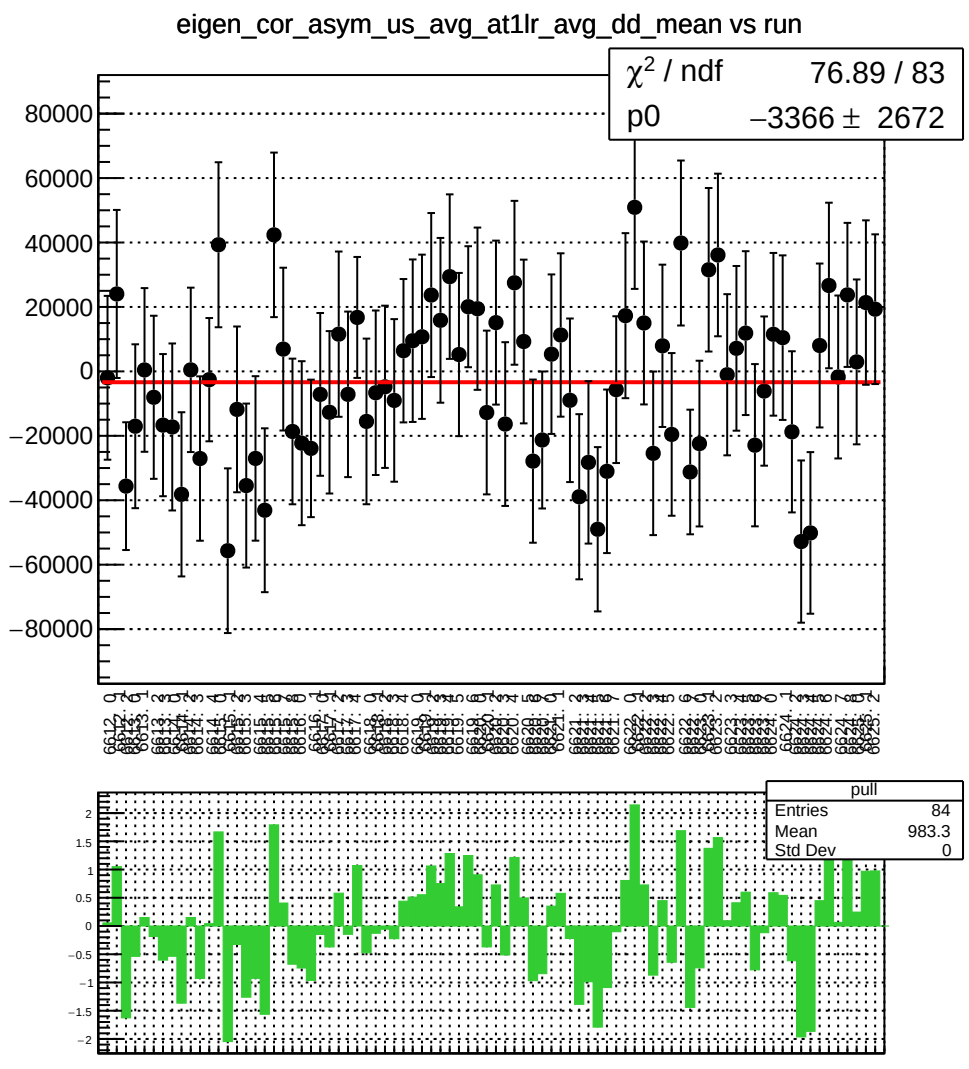

pull1D
Entries 84
Mean 0.004369
Std Dev 0.9567

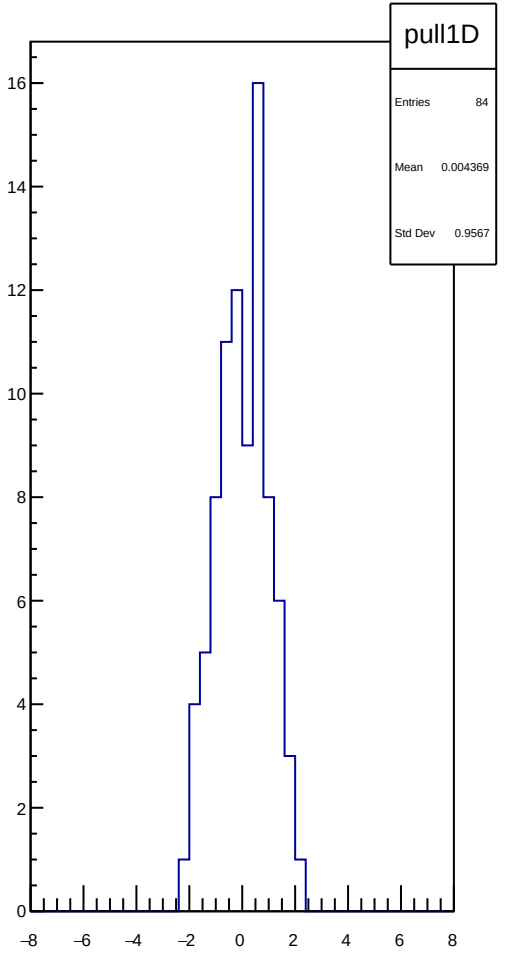

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 147.3 / 83
p0 2414 ± 1.889
2550
2500
2450
2400
2350

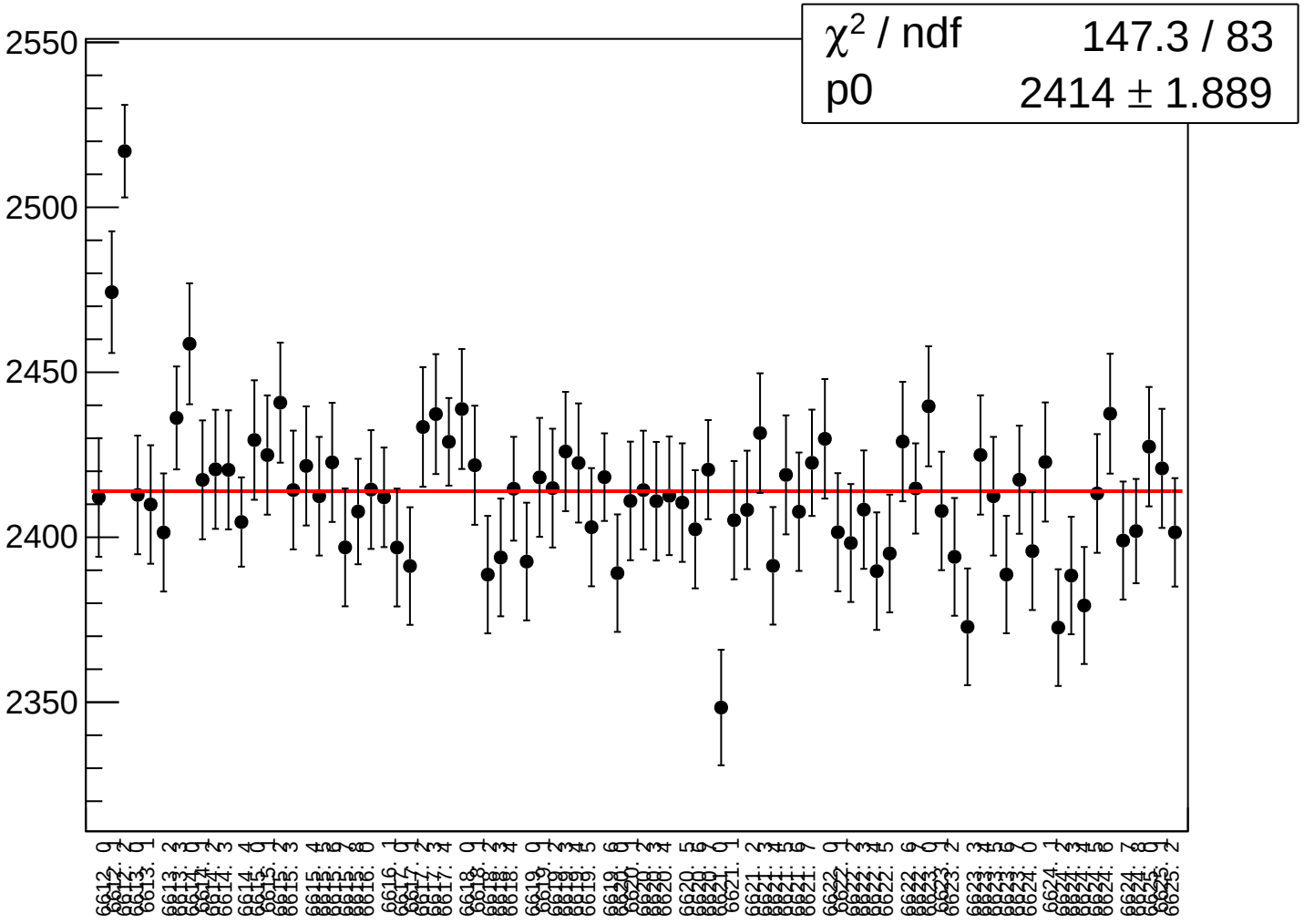

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 74.81 / 83
p0 715.4 ± 1003
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −257
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

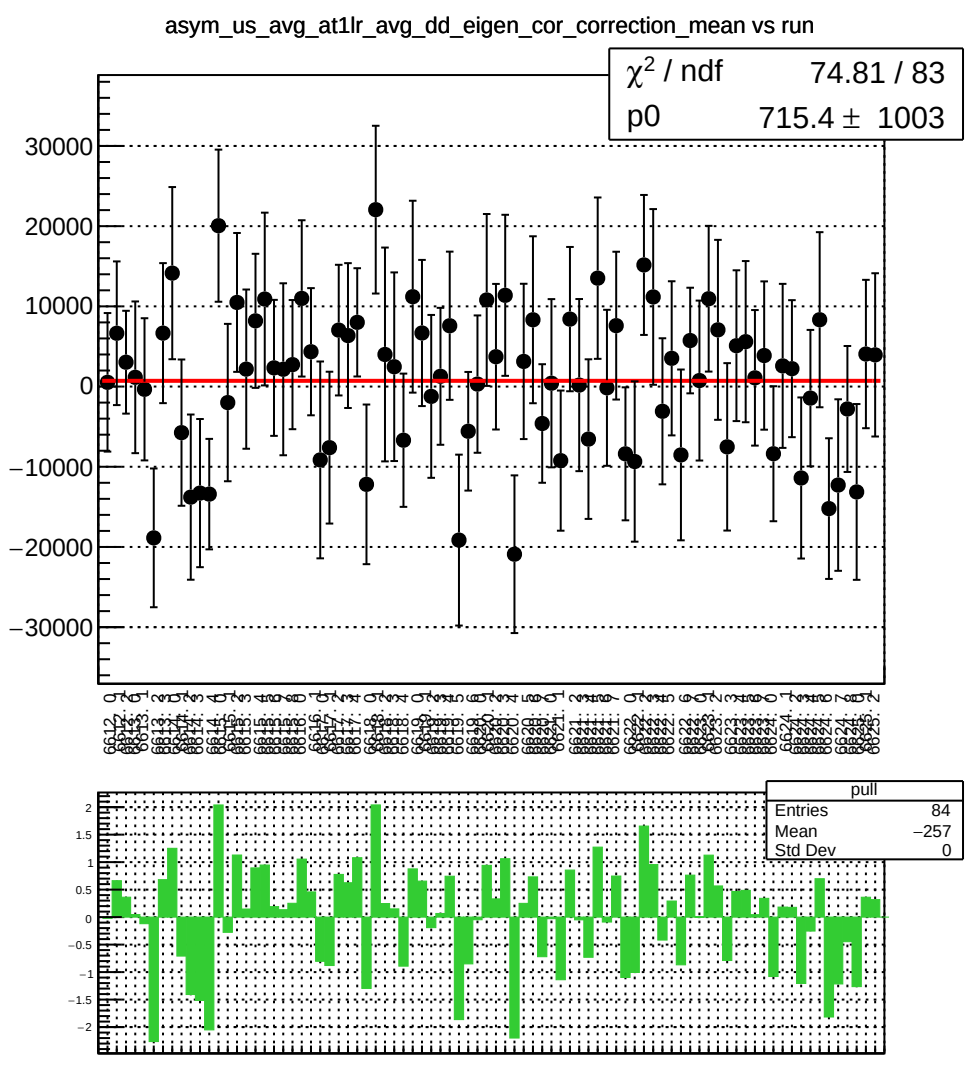

pull1D
Entries 84
Mean 0.006276
Std Dev 0.9437
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

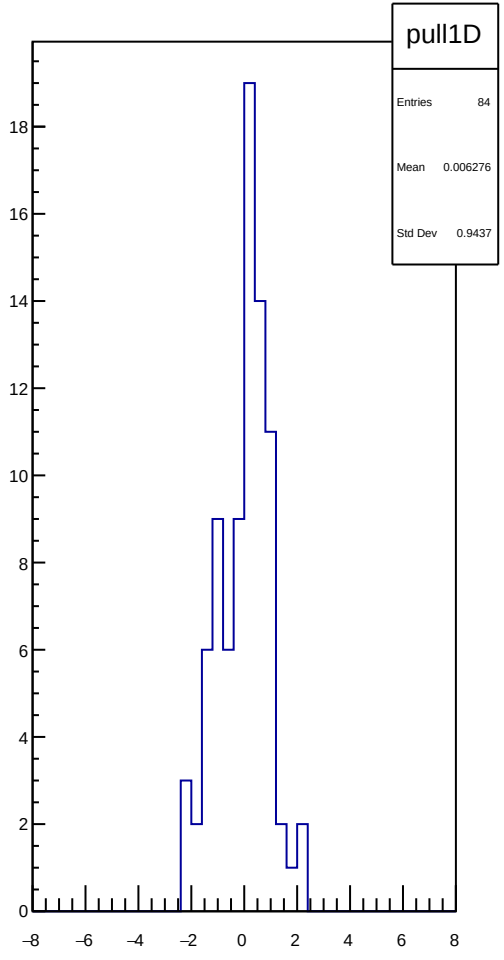

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.467e+04 / 83
p0 902.4 ± 0.7094
1300
1200
1100
1000
900
800

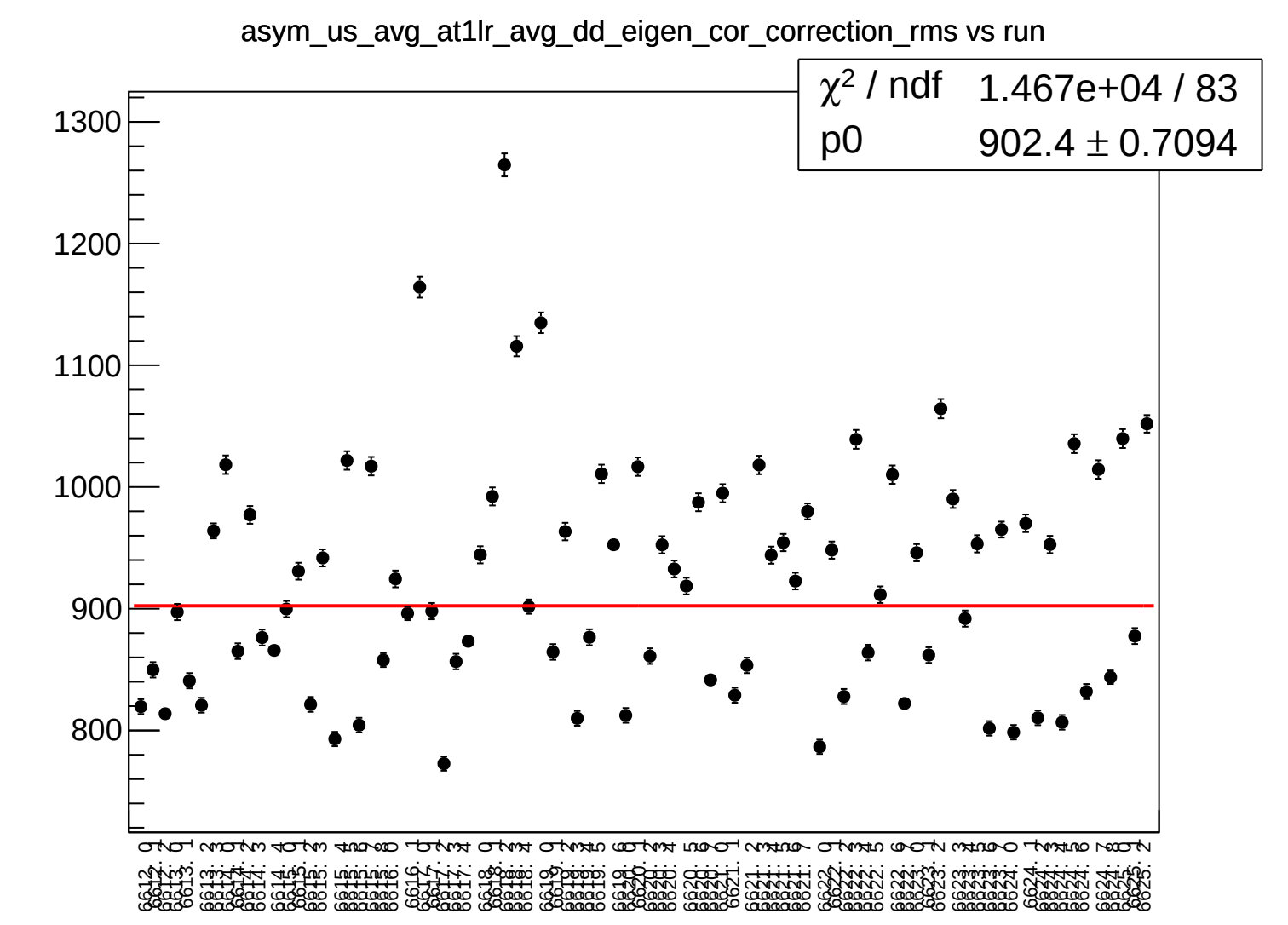

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 76.89 / 83
p0 −3366 ± 2672
pull
Entries 84
Mean 983.3
Std Dev 0

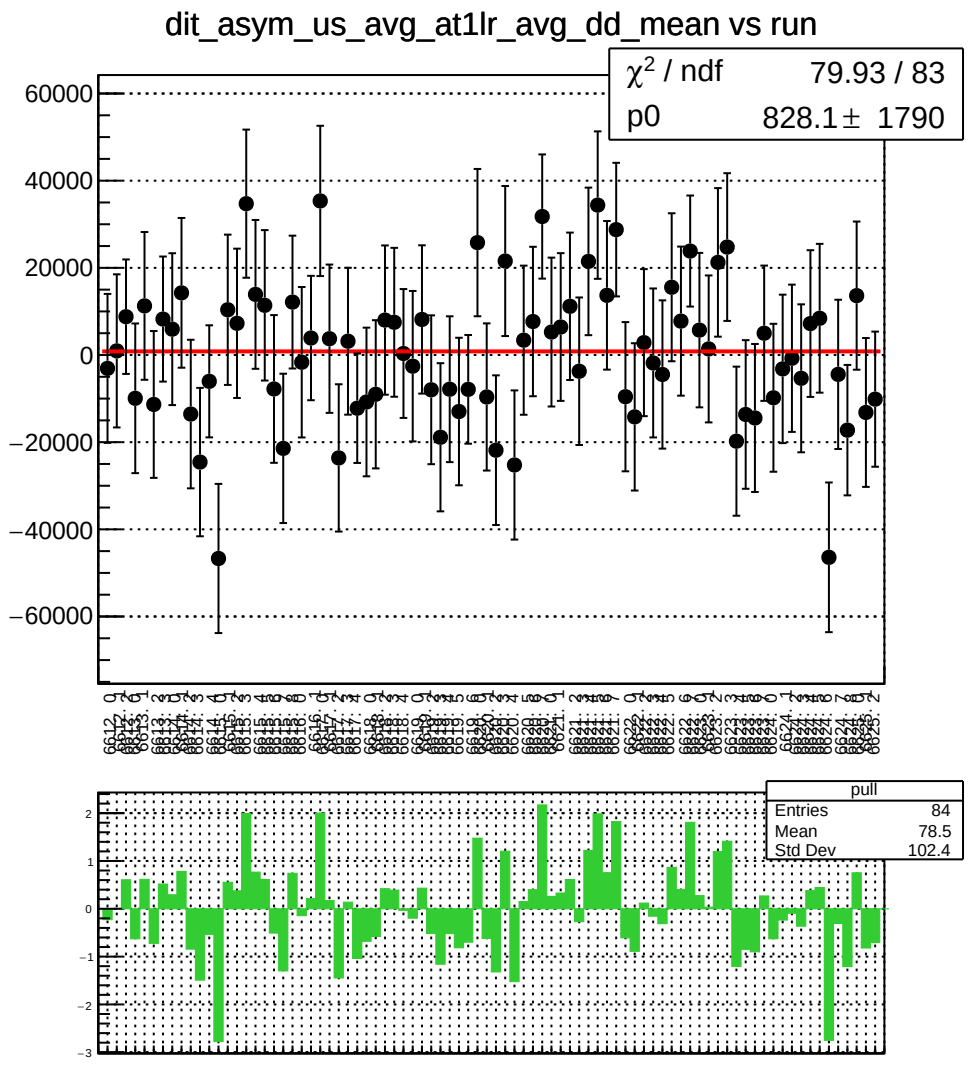

pull1D
Entries 84
Mean 0.004369
Std Dev 0.9567

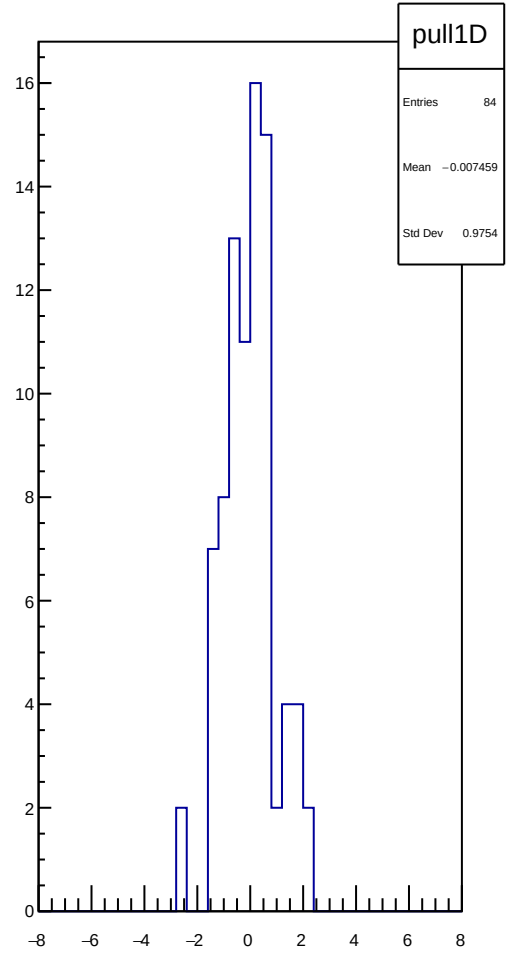

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 147.3 / 83
p0 2414 ± 1.889
2550
2500
2450
2400
2350

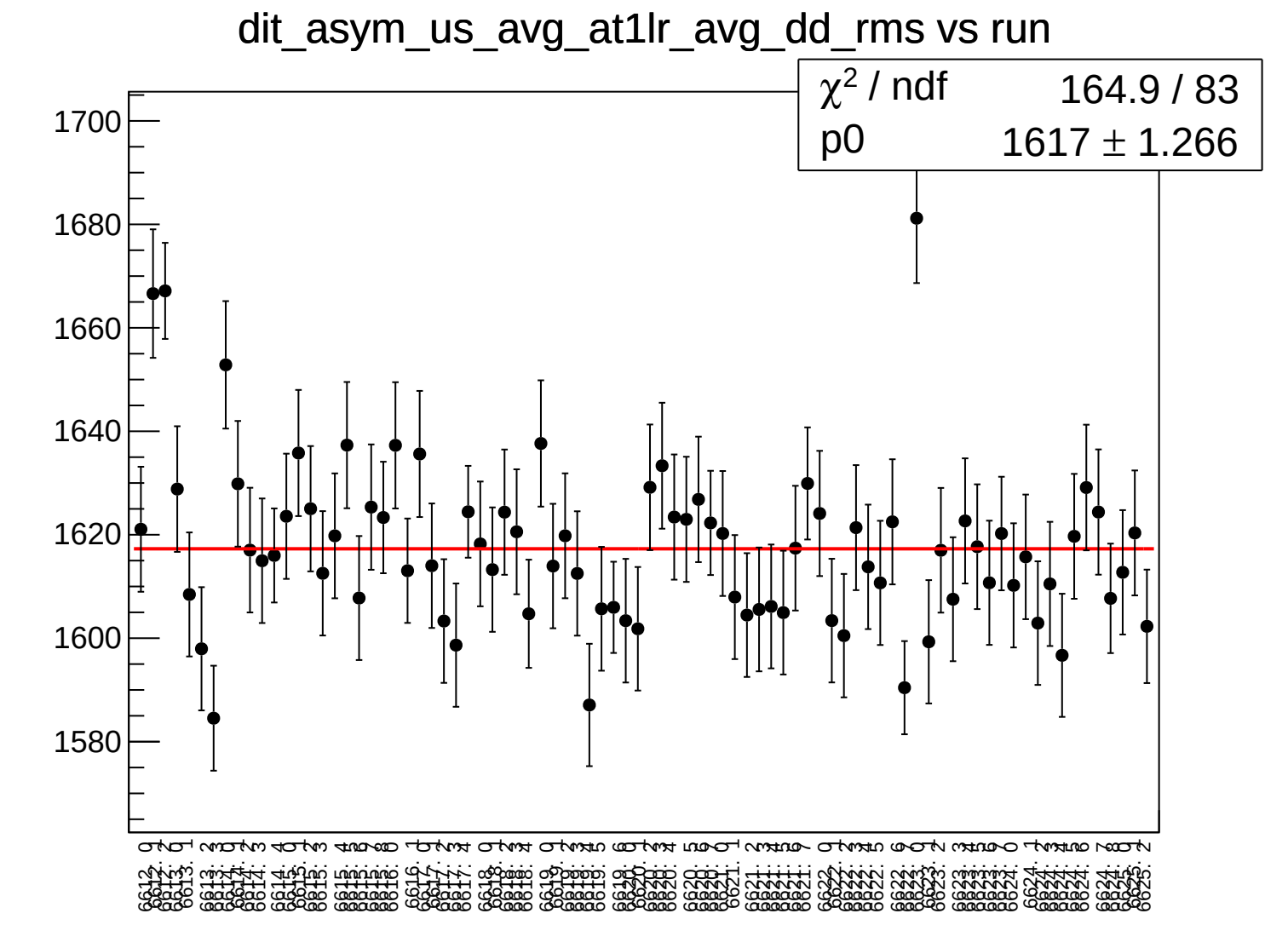

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.81 / 83
p0 715.4 ± 1003
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −257
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

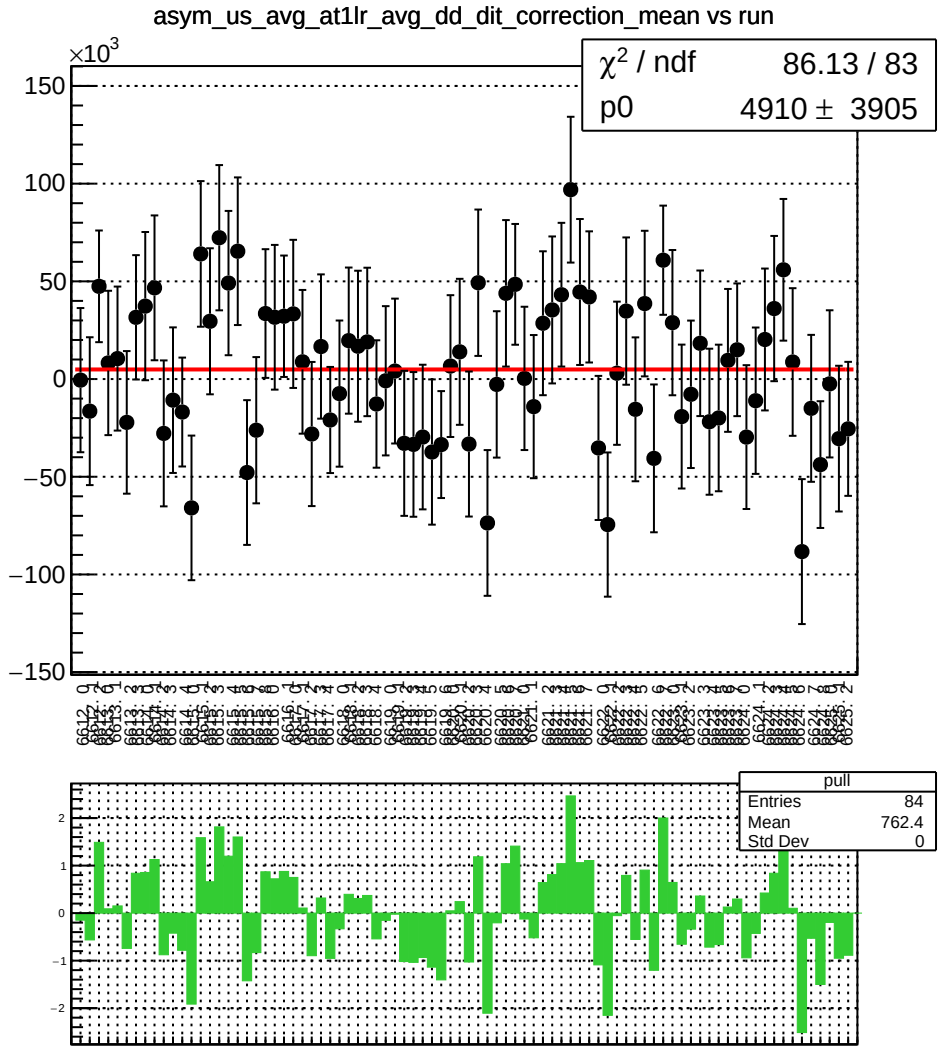

pull1D
Entries 84
Mean 0.006276
Std Dev 0.9437
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

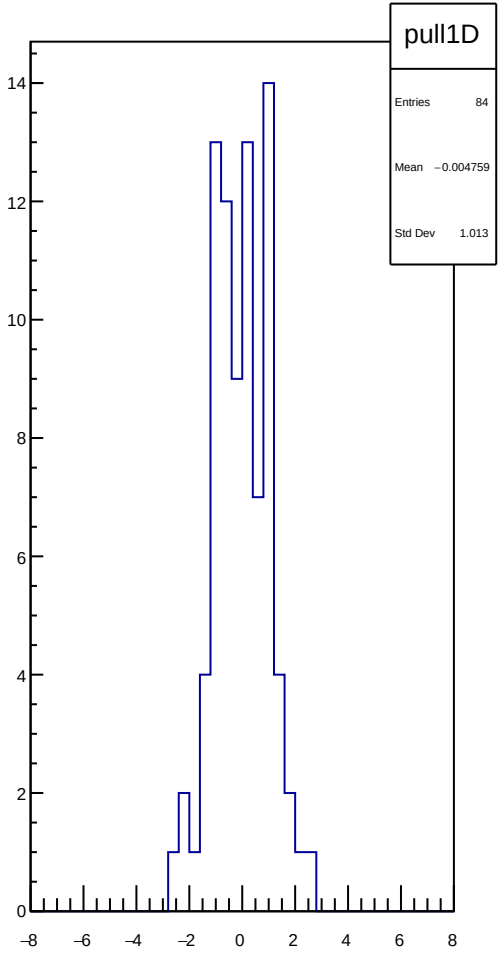

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.467e+04 / 83
p0 902.4 ± 0.7094
1300
1200
1100
1000
900
800

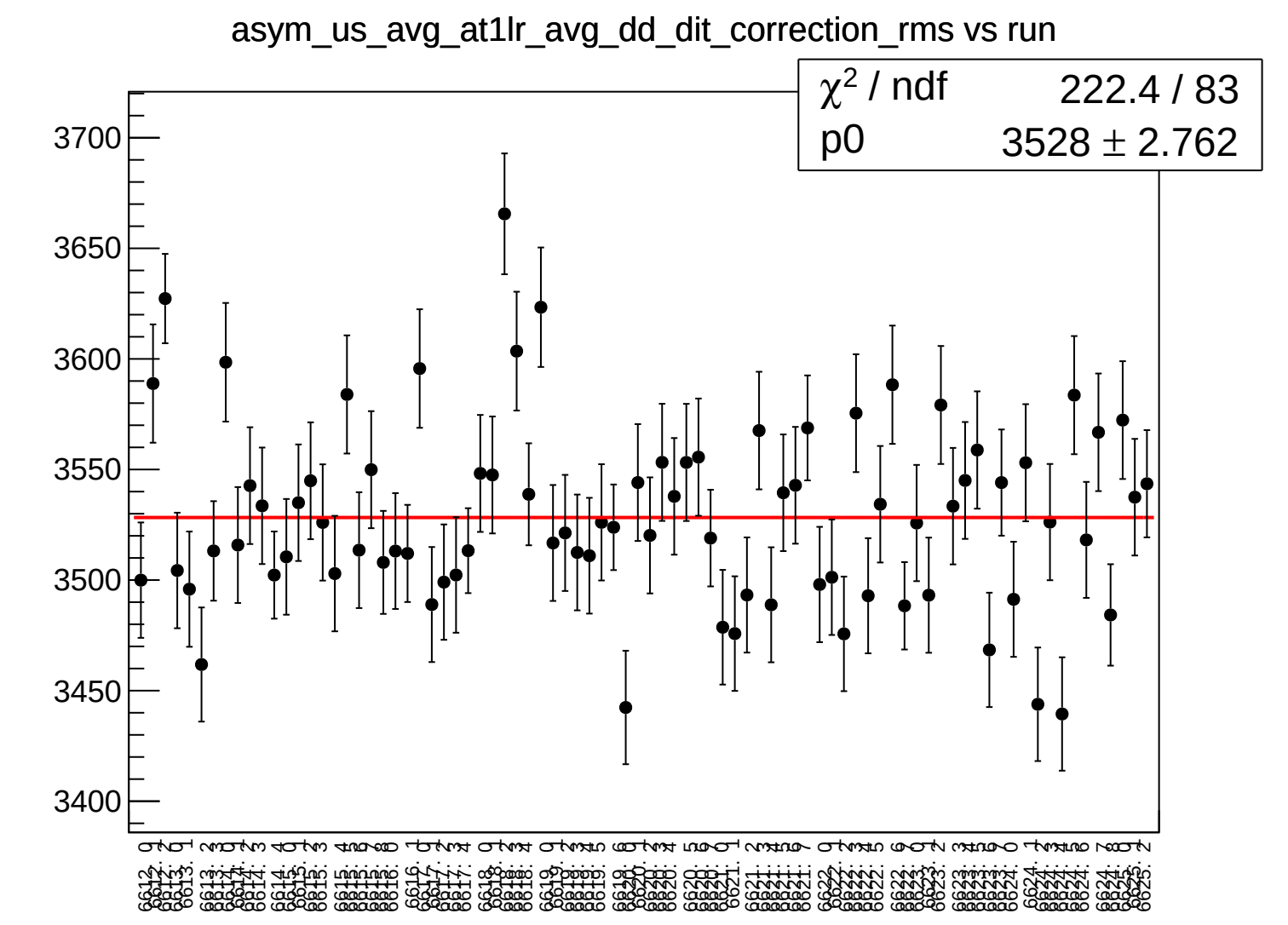

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 79.93 / 83
p0 828.1 ± 1790
pull
Entries 84
Mean 78.5
Std Dev 102.4

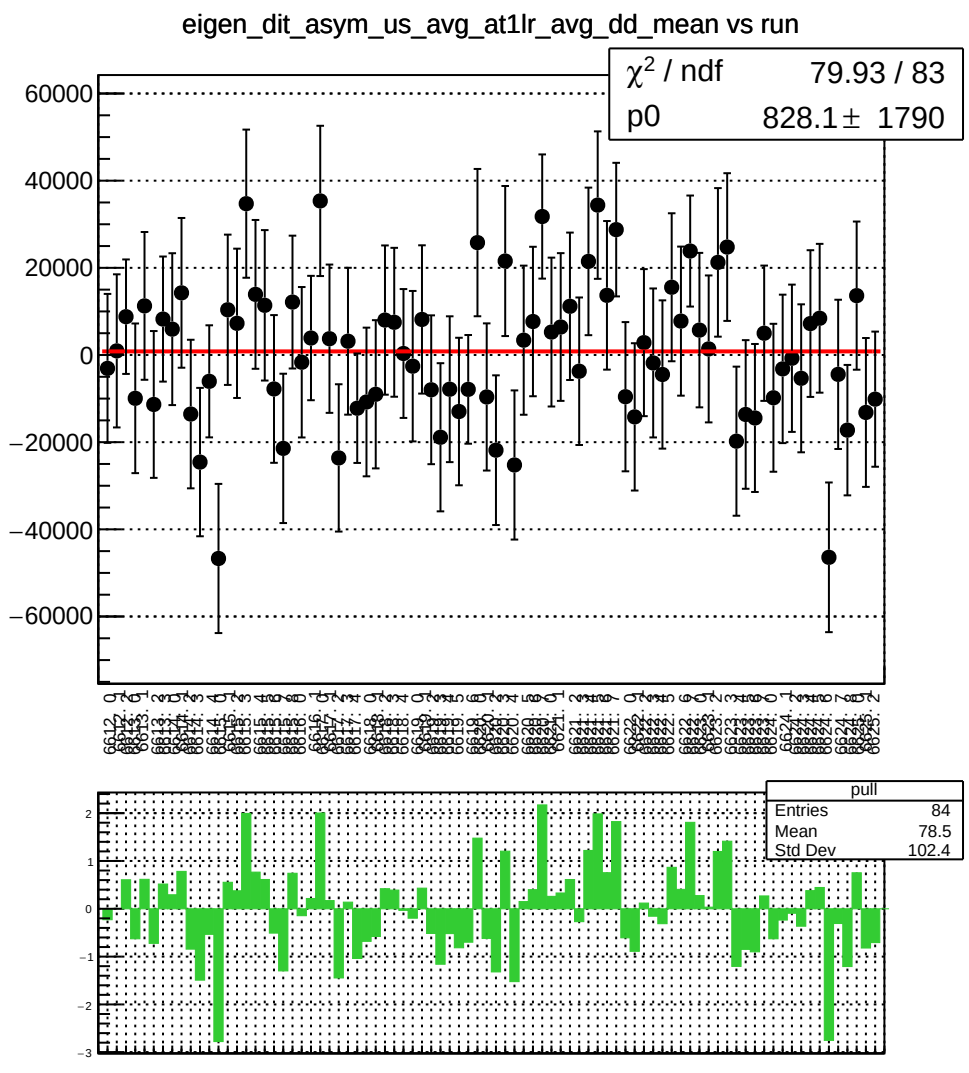

pull1D
Entries 84
Mean −0.007459
Std Dev 0.9754

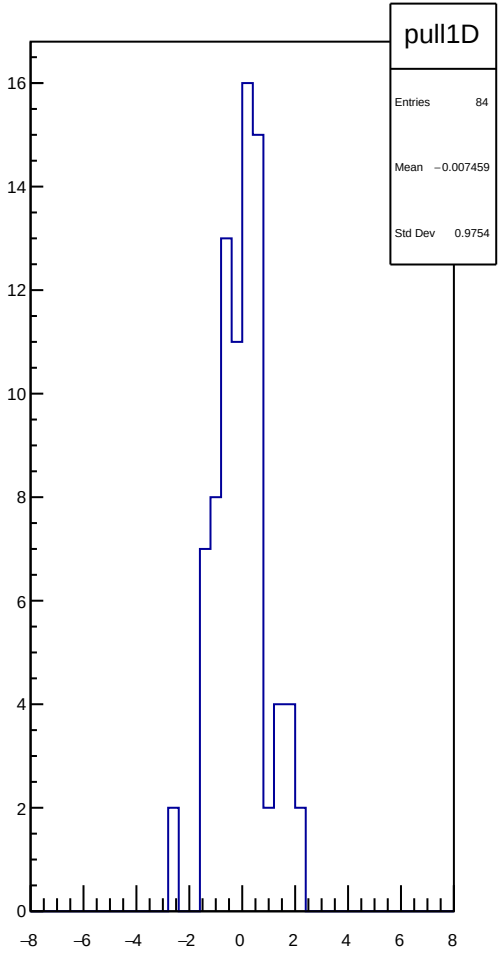

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 164.9 / 83
p0 1617 ± 1.266
1700
1680
1660
1640
1620
1600
1580

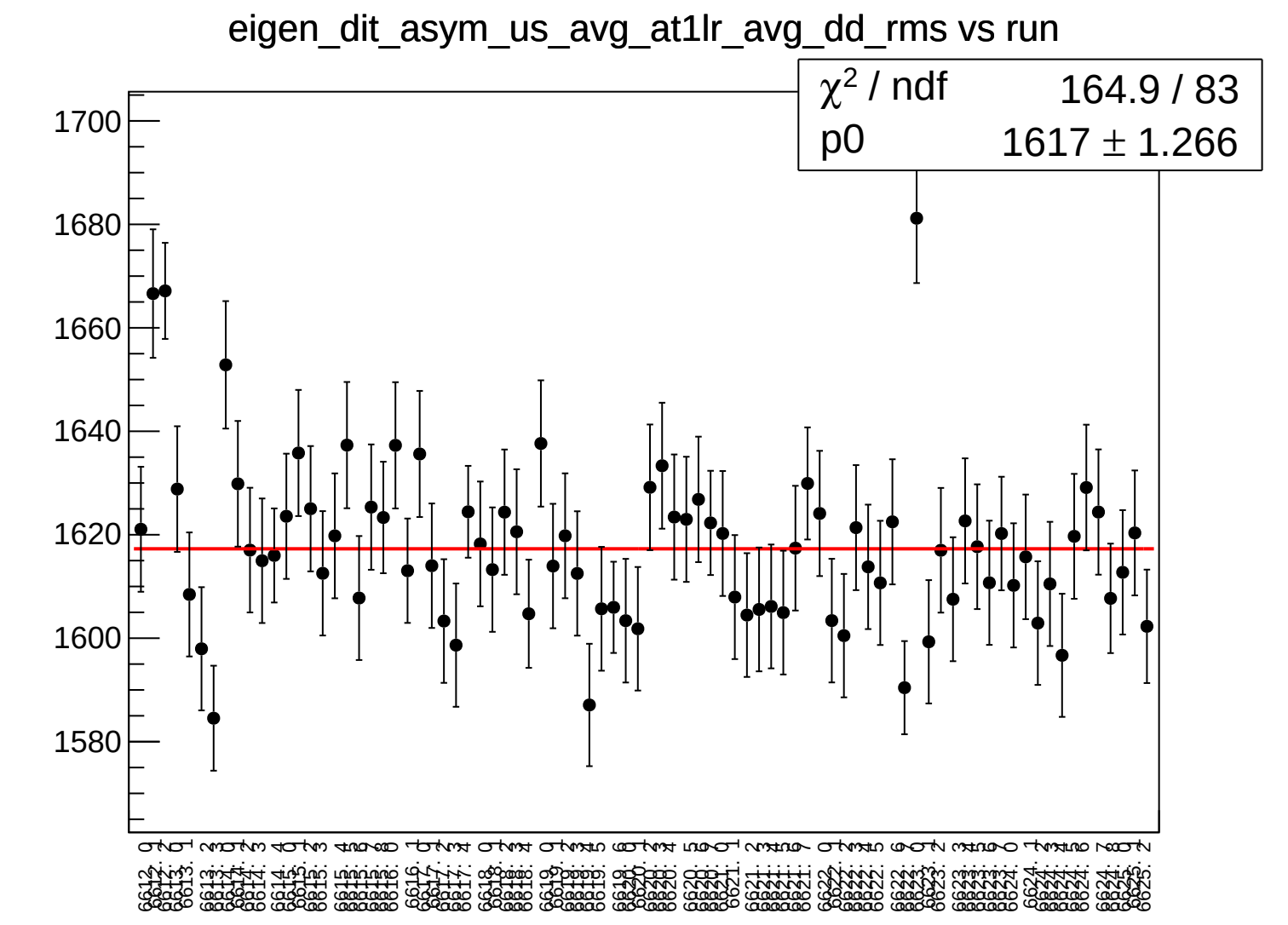

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.13 / 83
p0 4910 ± 3905
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 762.4
Std Dev 0
2
1
0
−1
−2

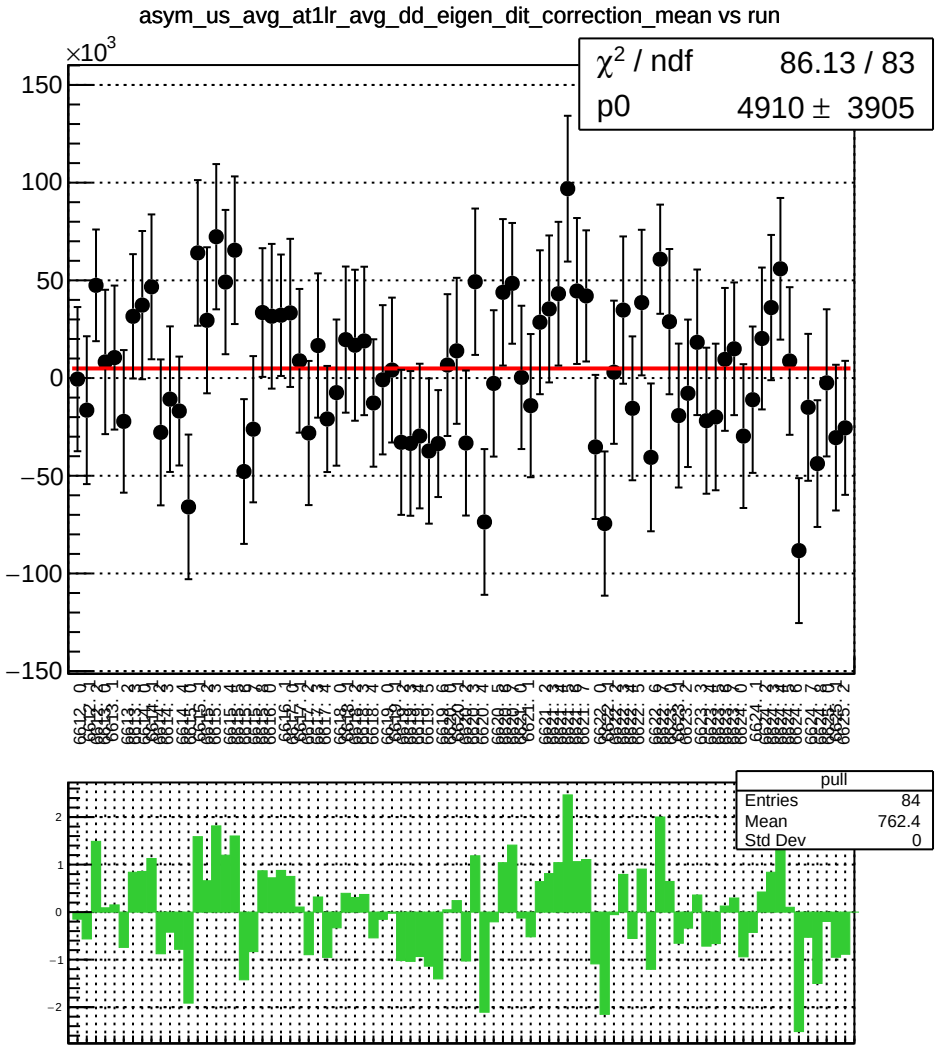

pull1D
Entries 84
Mean −0.004759
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

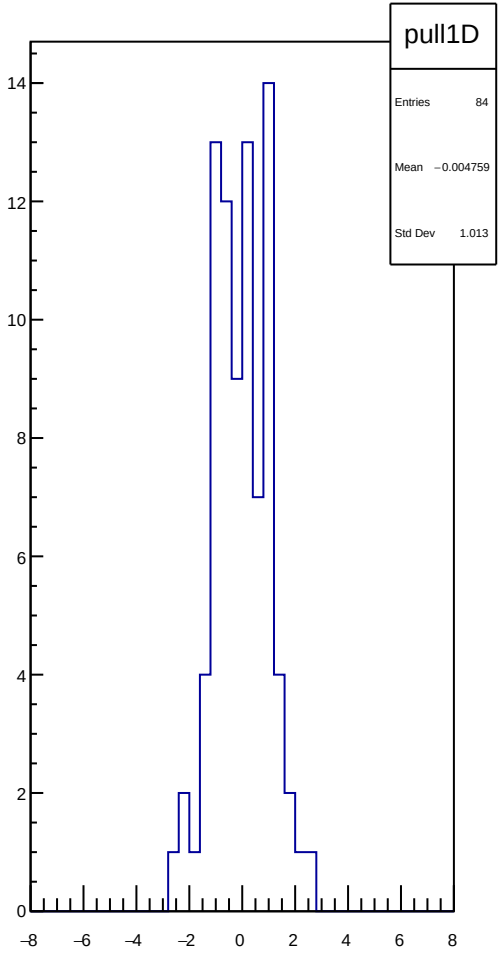

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 222.4 / 83
p0 3528 ± 2.762
3700
3650
3600
3550
3500
3450
3400

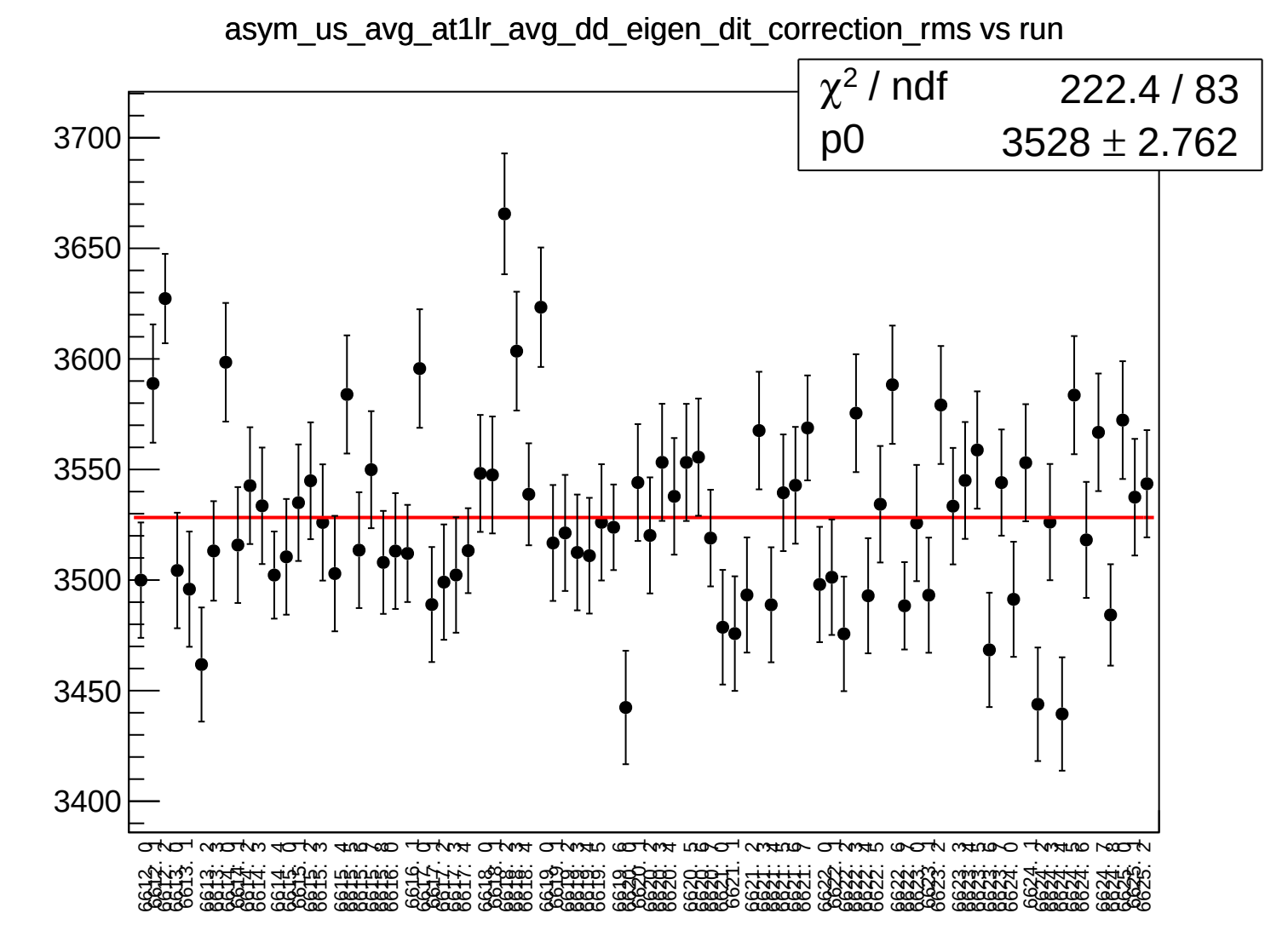

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 79.93 / 83
p0 828.1 ± 1790
pull
Entries 84
Mean 78.5
Std Dev 102.4

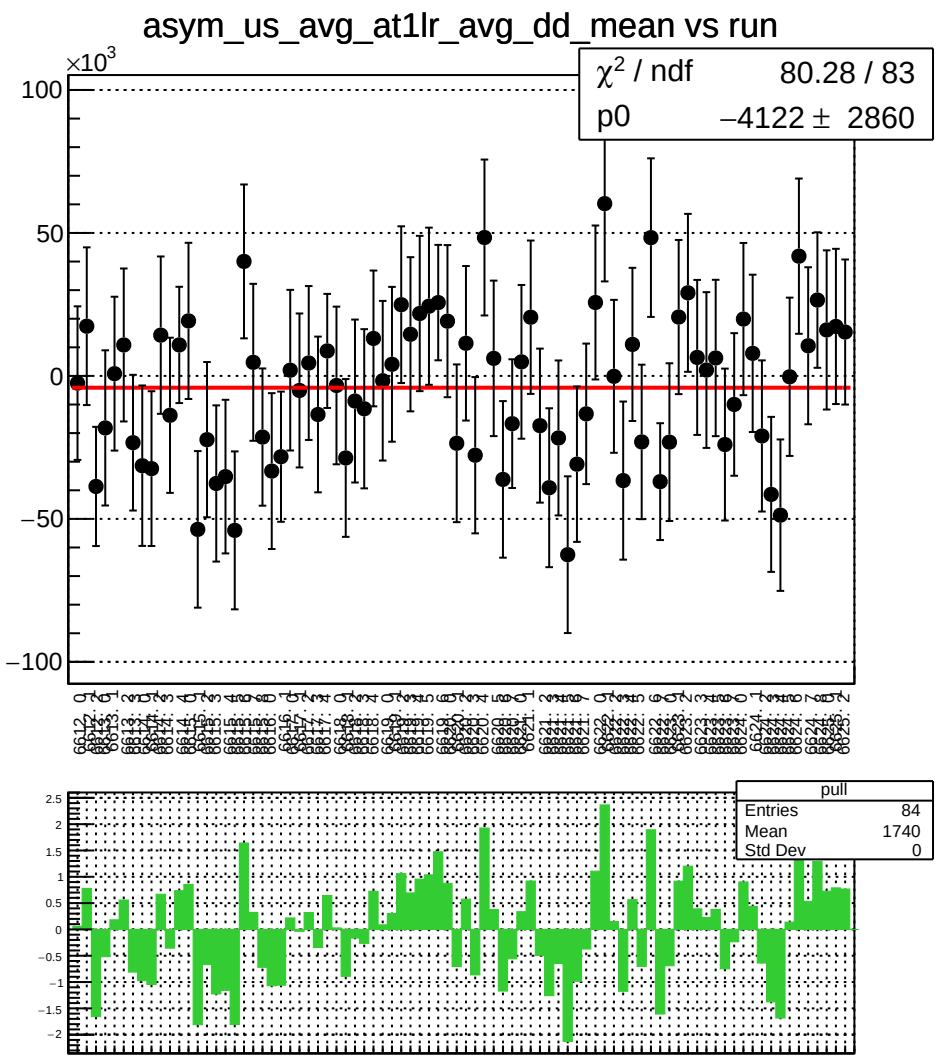

pull1D
Entries 84
Mean −0.007459
Std Dev 0.9754

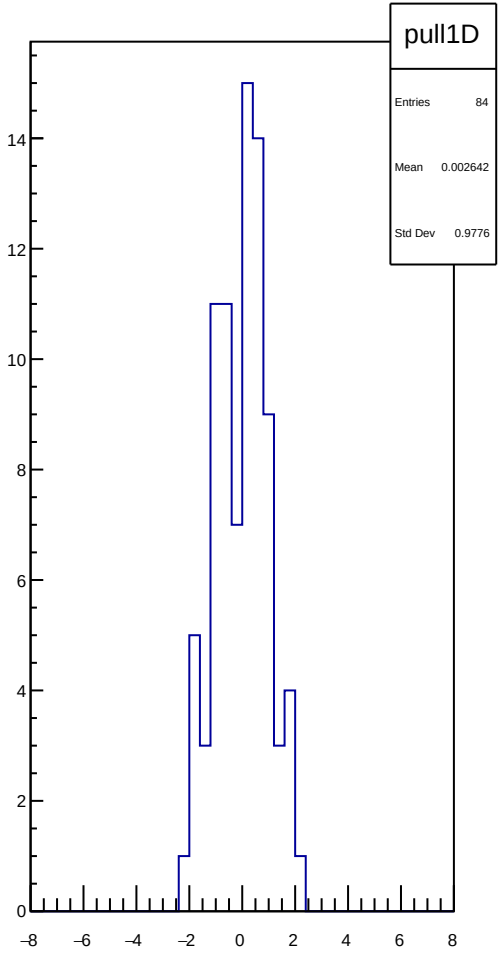

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 164.9 / 83
p0 1617 ± 1.266
1700
1680
1660
1640
1620
1600
1580

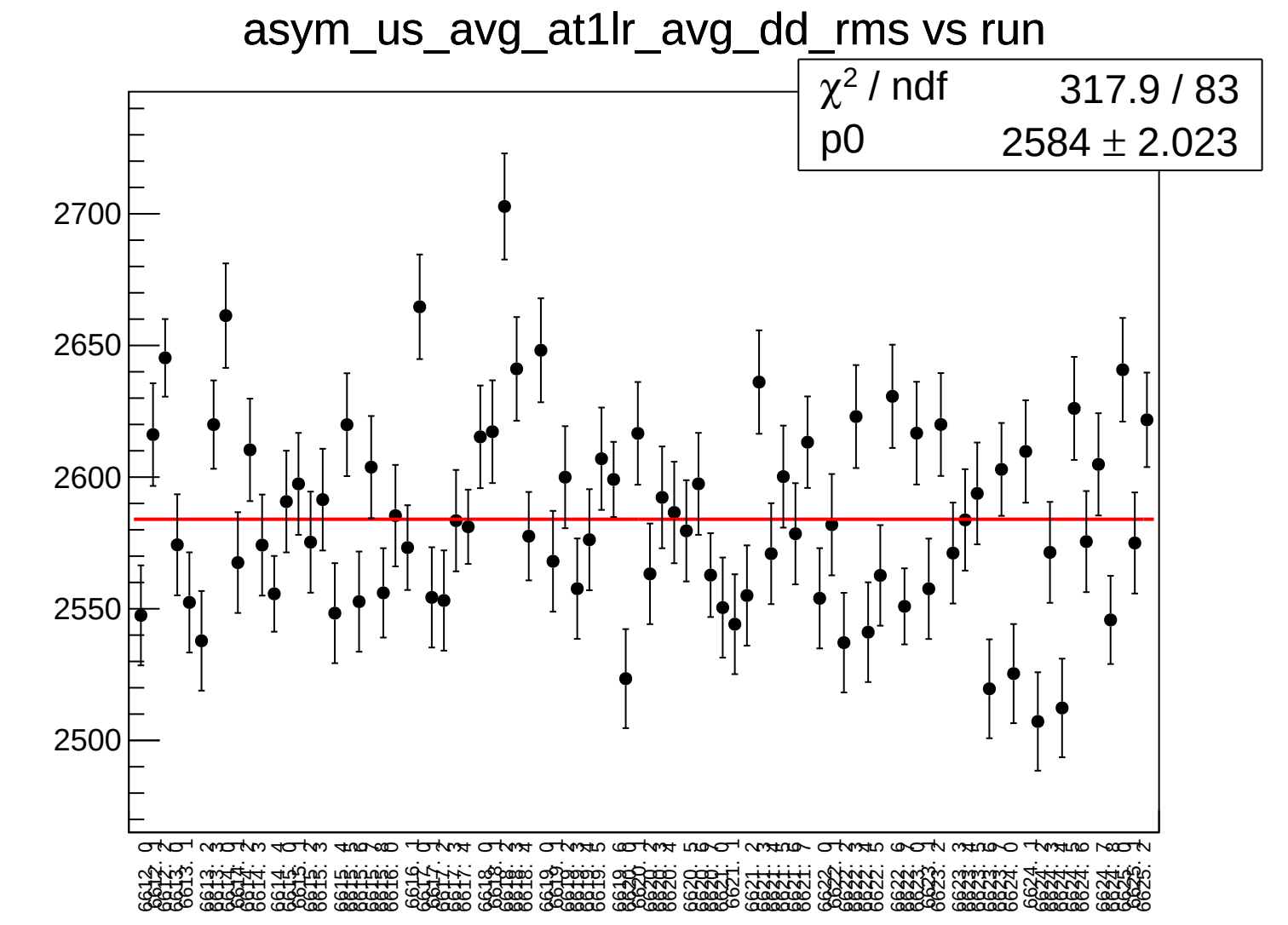

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.13 / 83
p0 4910 ± 3905
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 762.4
Std Dev 0
2
1
0
−1
−2

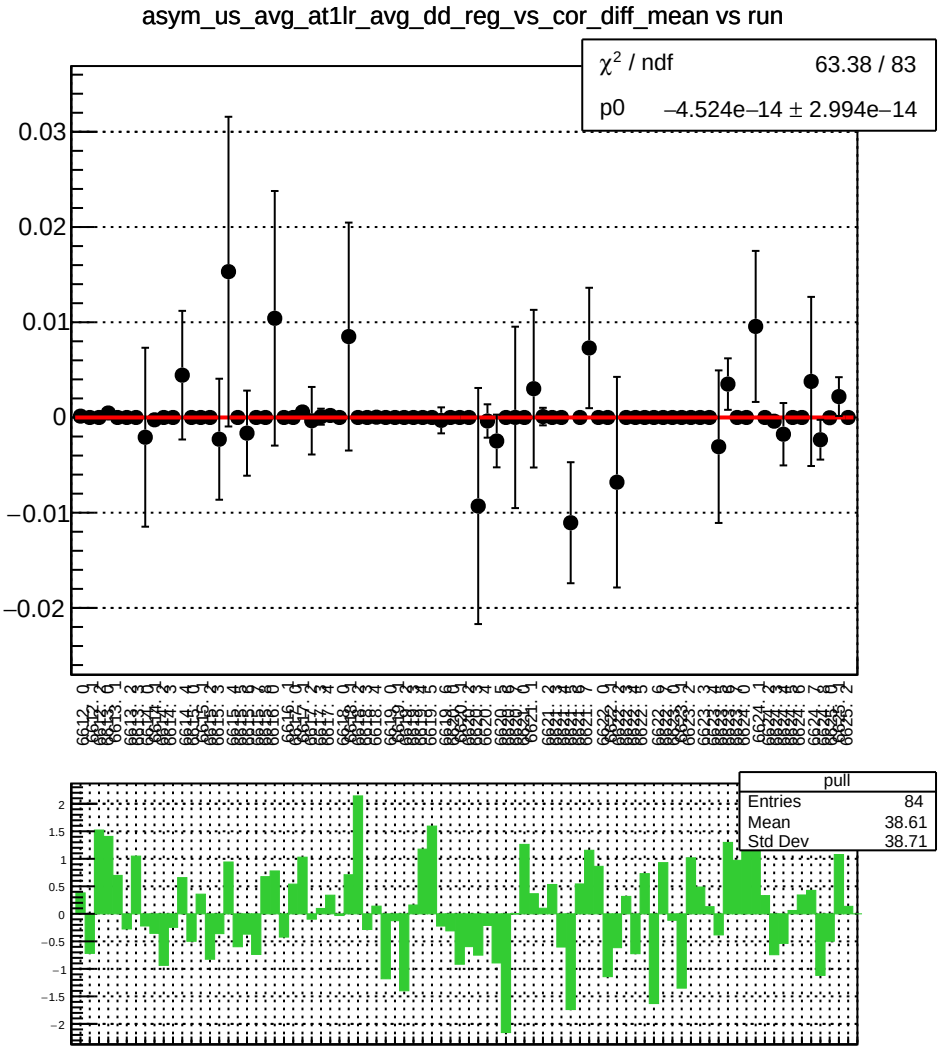

pull1D
Entries 84
Mean −0.004759
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

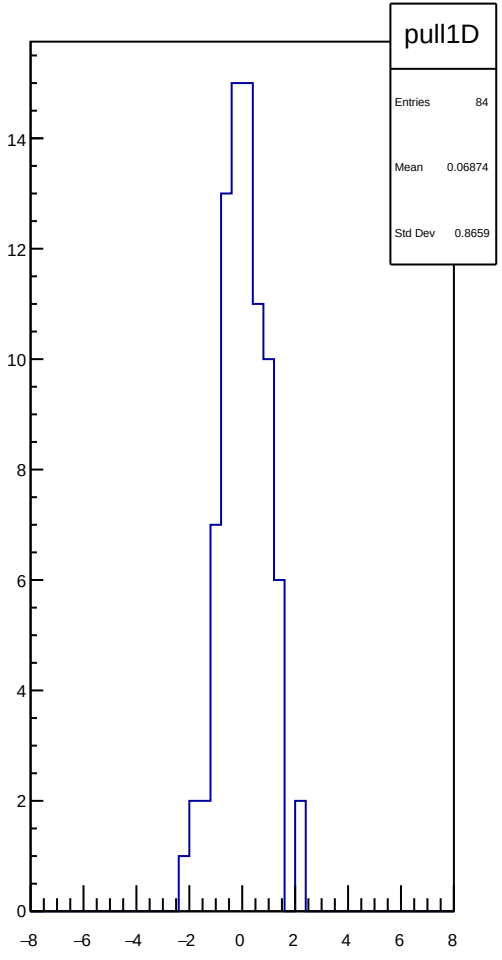

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 222.4 / 83
p0 3528 ± 2.762
3700
3650
3600
3550
3500
3450
3400

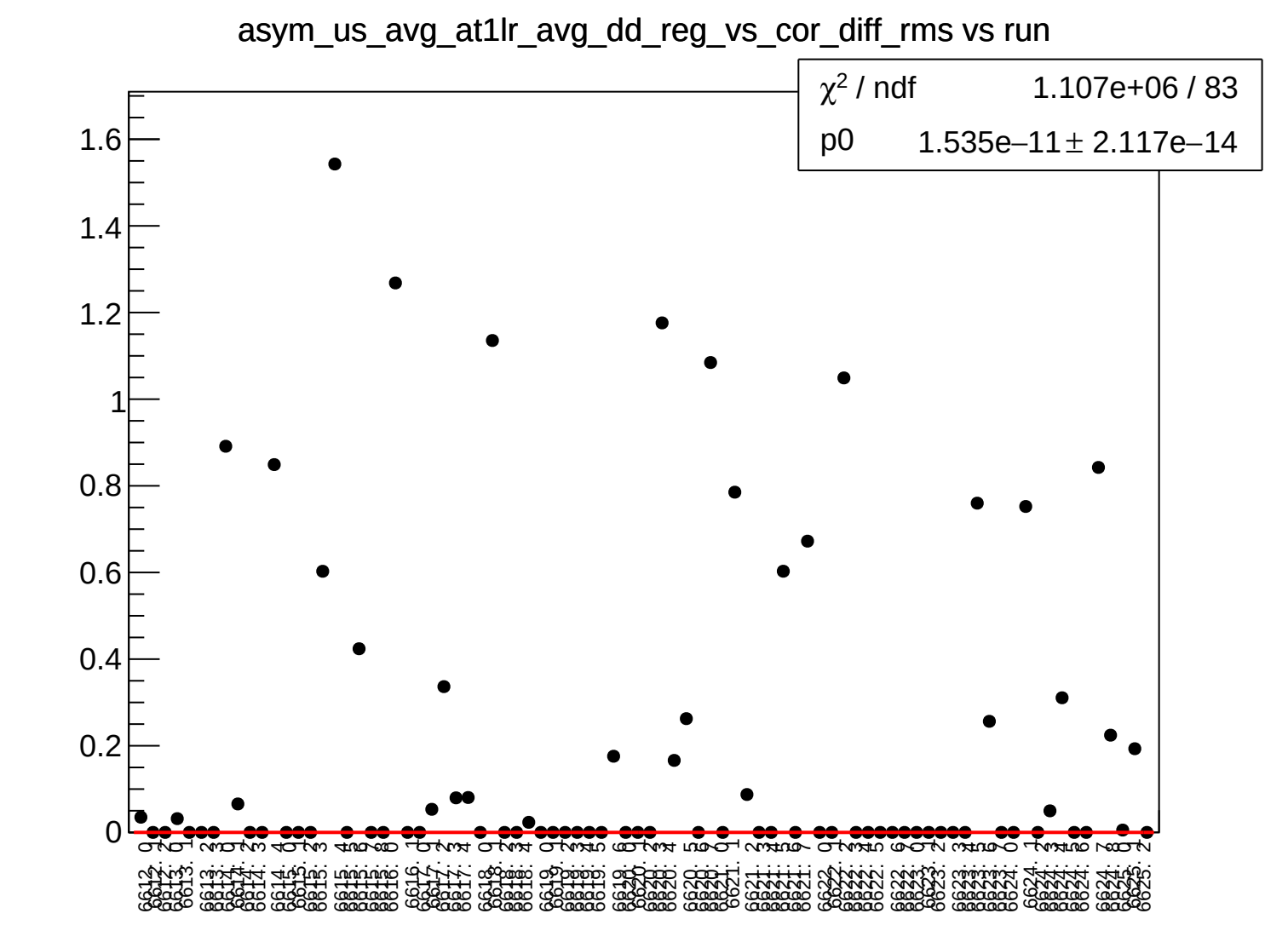

asym_us_avg_at1lr_avg_dd_mean vs run
×10^3
χ² / ndf 80.28 / 83
p0 −4122 ± 2860
pull
Entries 84
Mean 1740
Std Dev 0

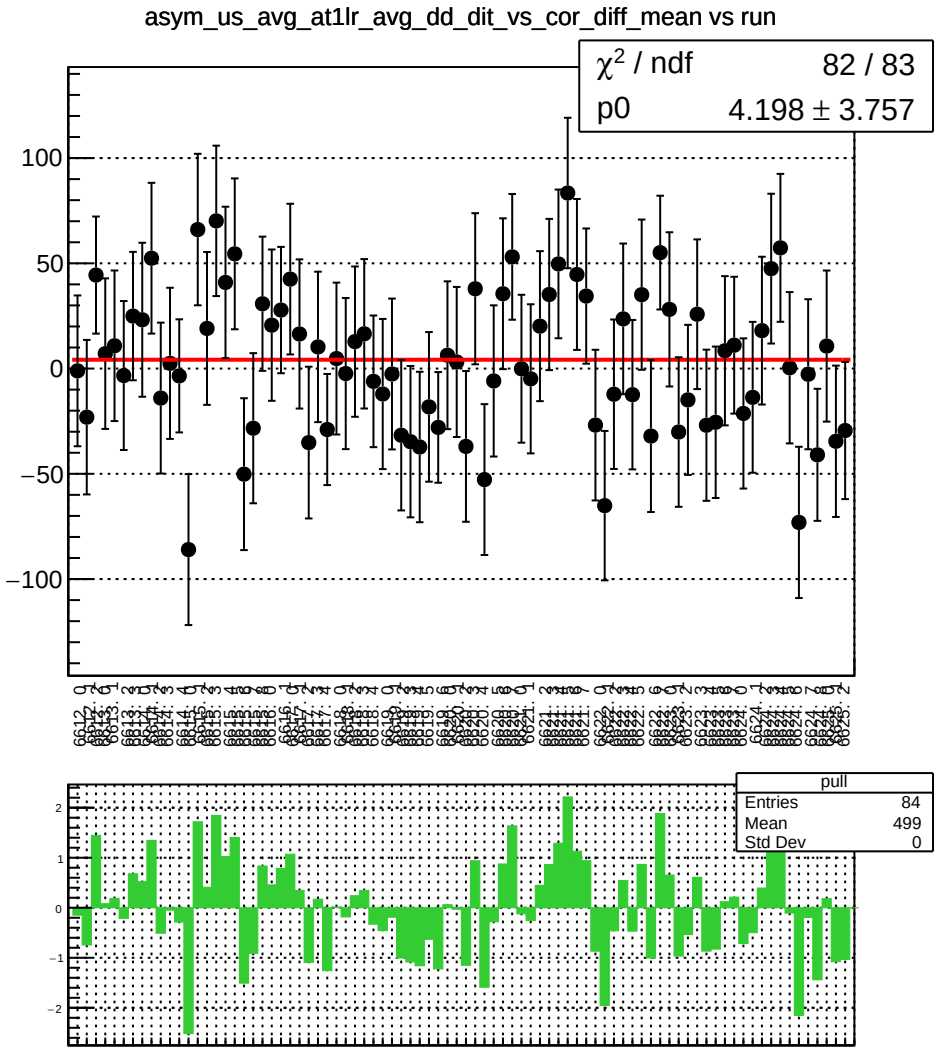

pull1D
Entries 84
Mean 0.002642
Std Dev 0.9776

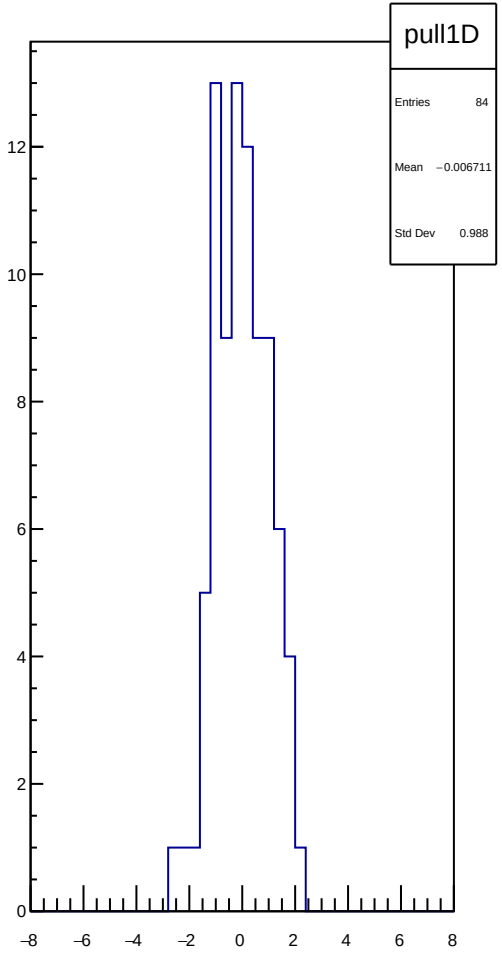

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 317.9 / 83
p0 2584 ± 2.023
2700
2650
2600
2550
2500

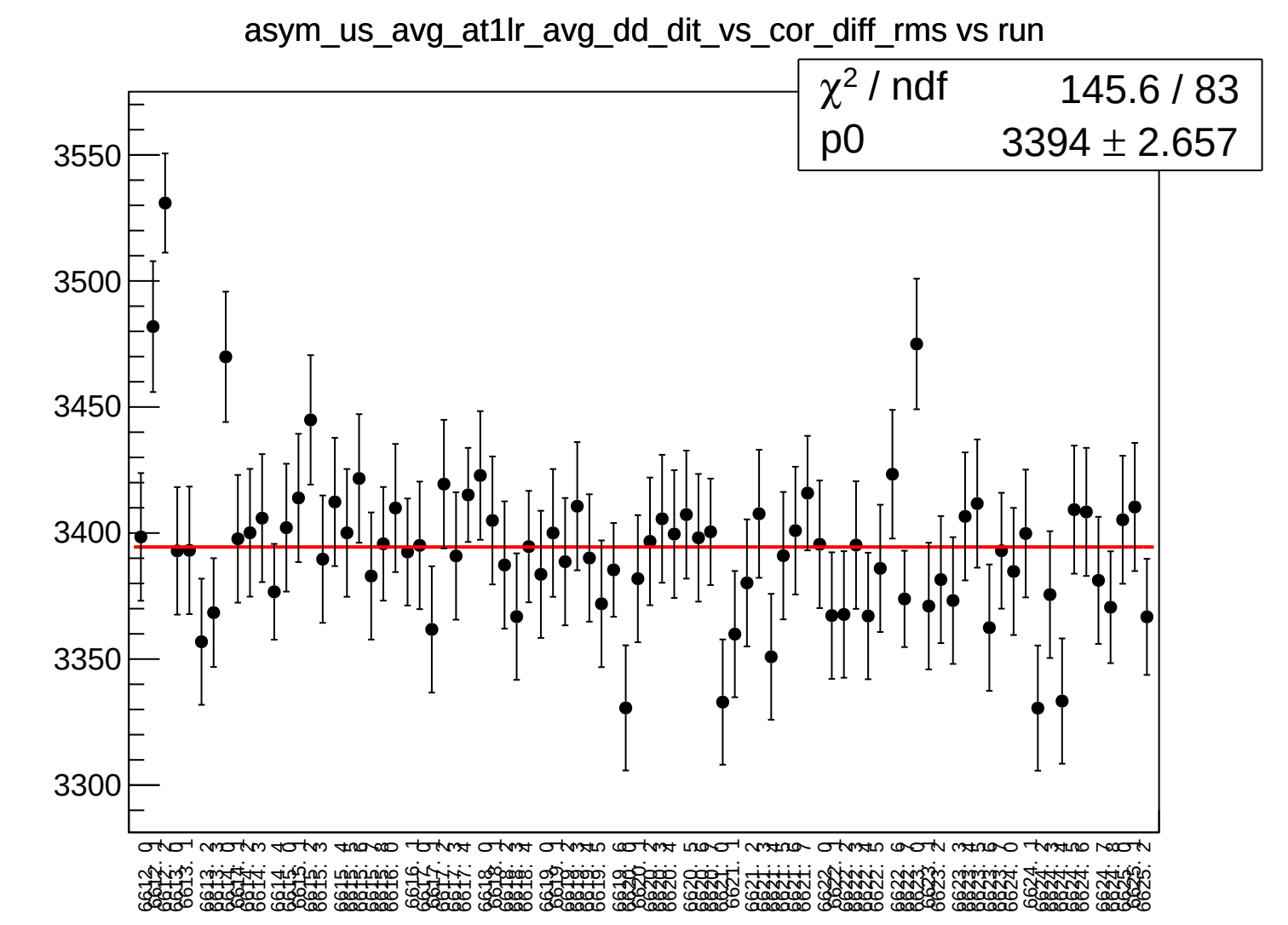

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 63.38 / 83
p0 −4.524e−14 ± 2.994e−14
pull
Entries 84
Mean 38.61
Std Dev 38.71

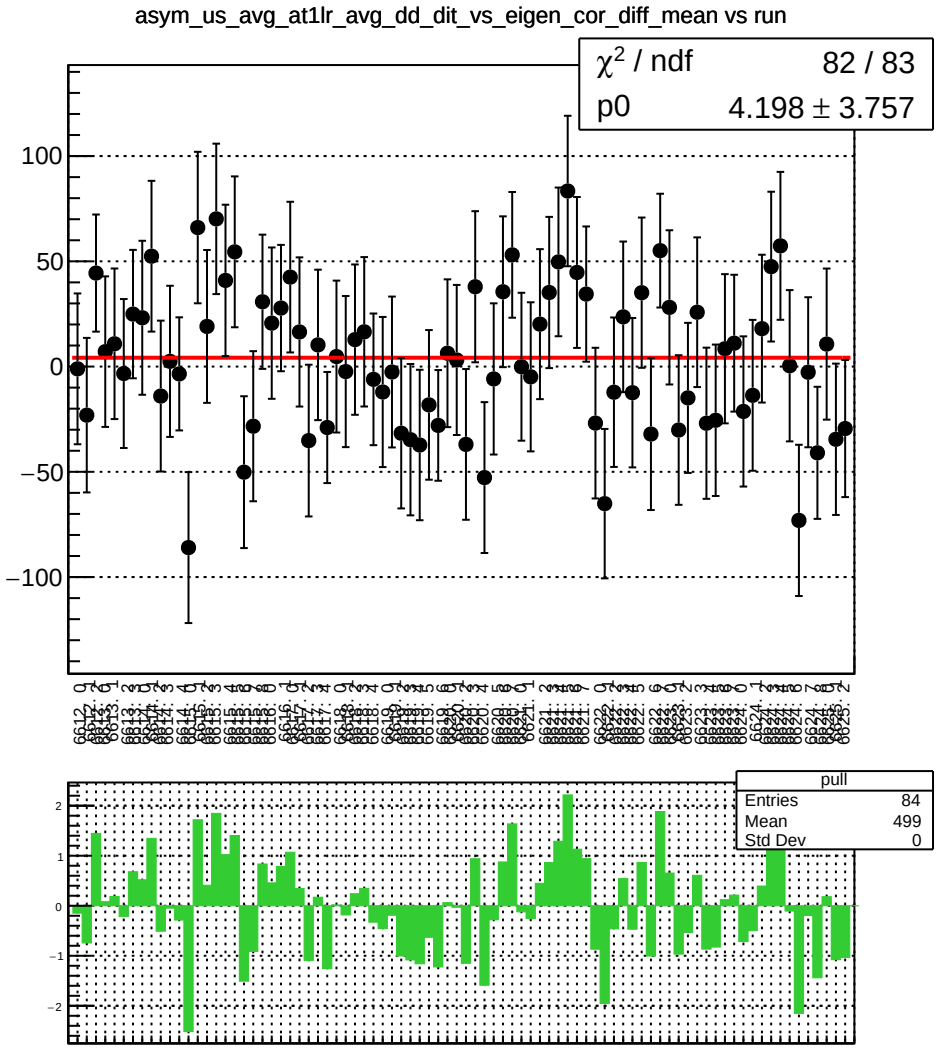

pull1D
Entries 84
Mean 0.06874
Std Dev 0.8659

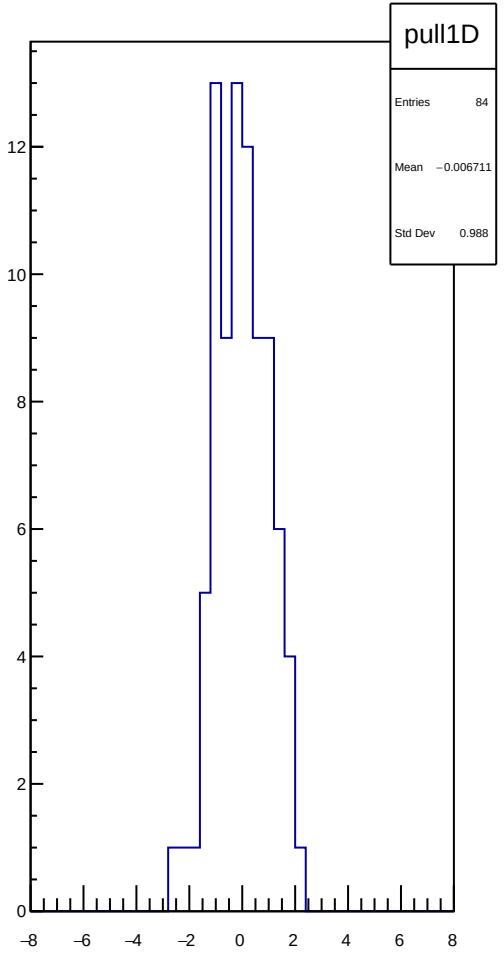

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.107e+06 / 83
p0 1.535e−11 ± 2.117e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

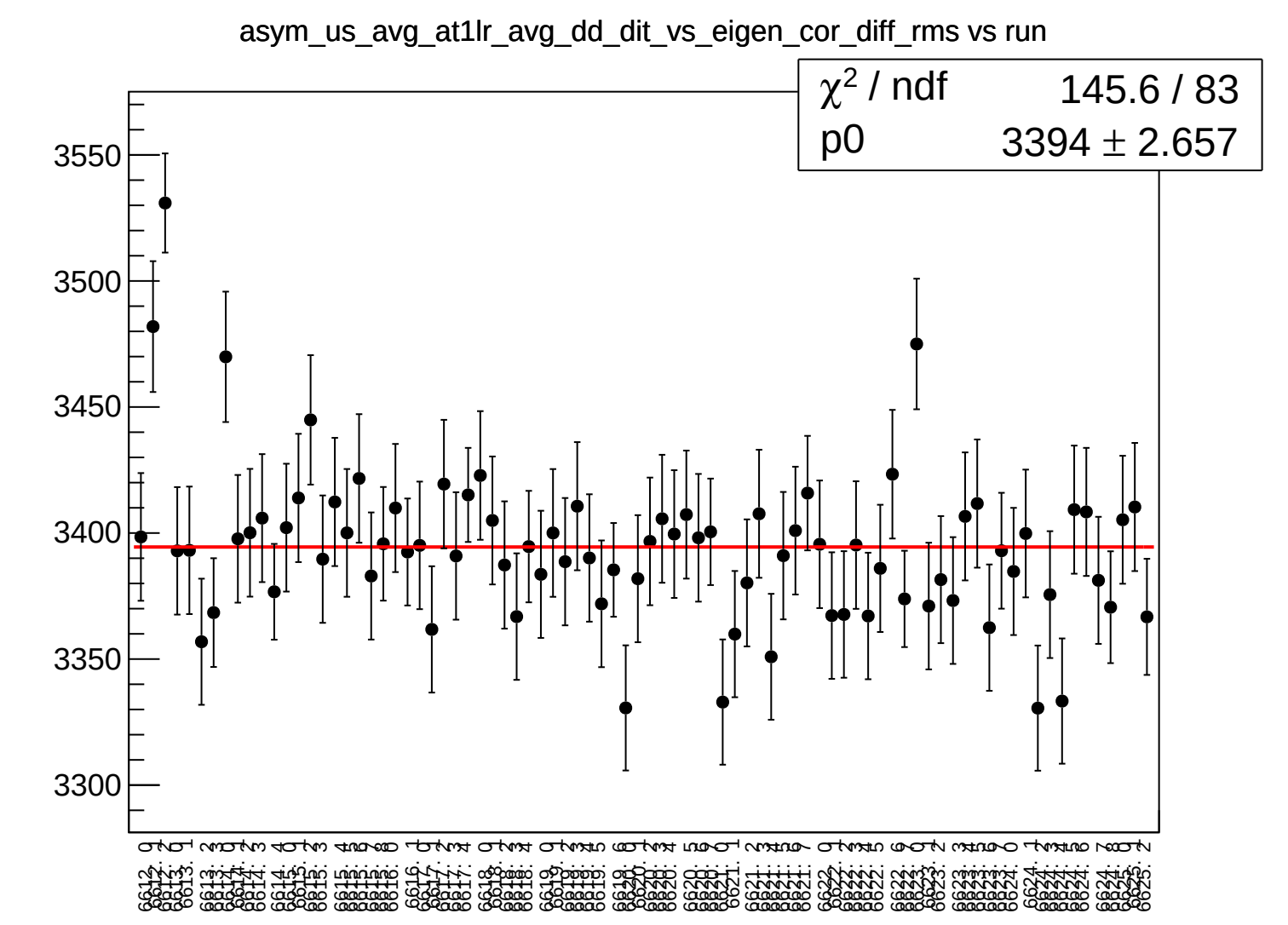

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82 / 83
p0 4.198 ± 3.757
100
50
0
−50
−100
pull
Entries 84
Mean 499
Std Dev 0
2
1
0
−1
−2

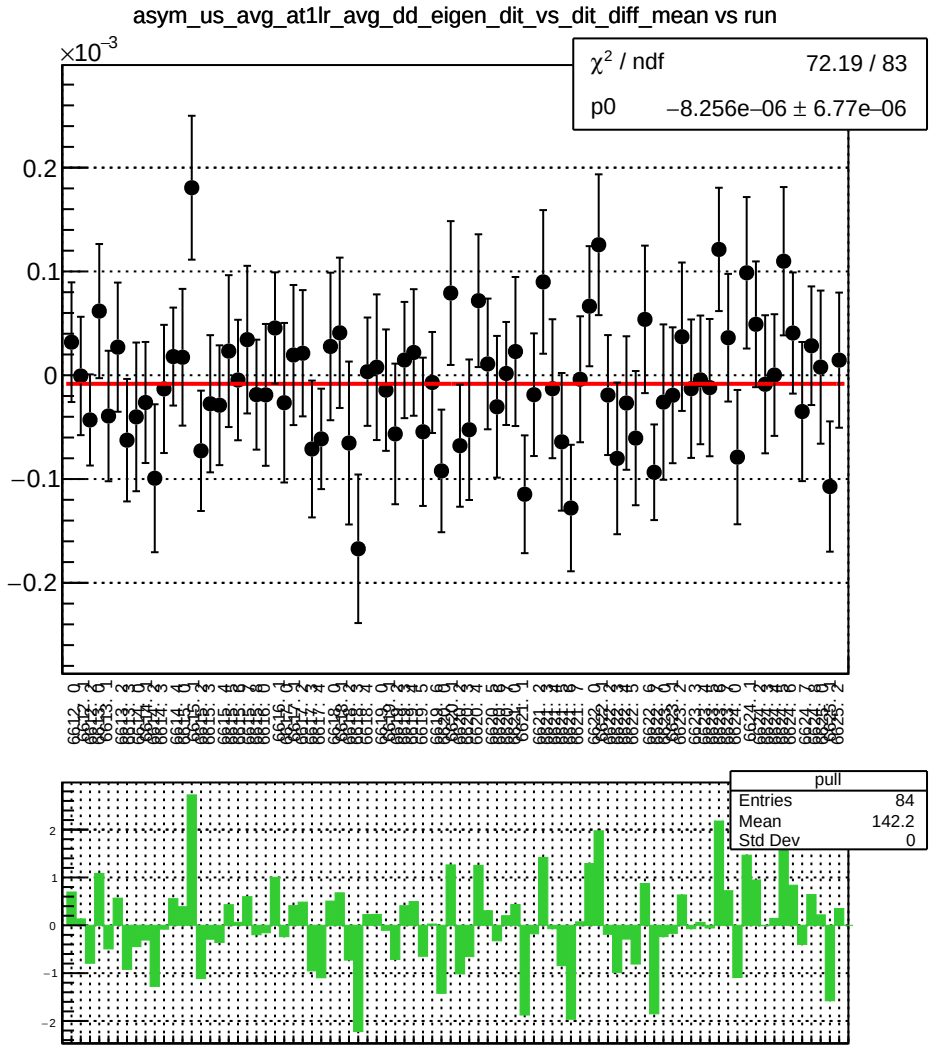

pull1D
Entries 84
Mean −0.006711
Std Dev 0.988
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

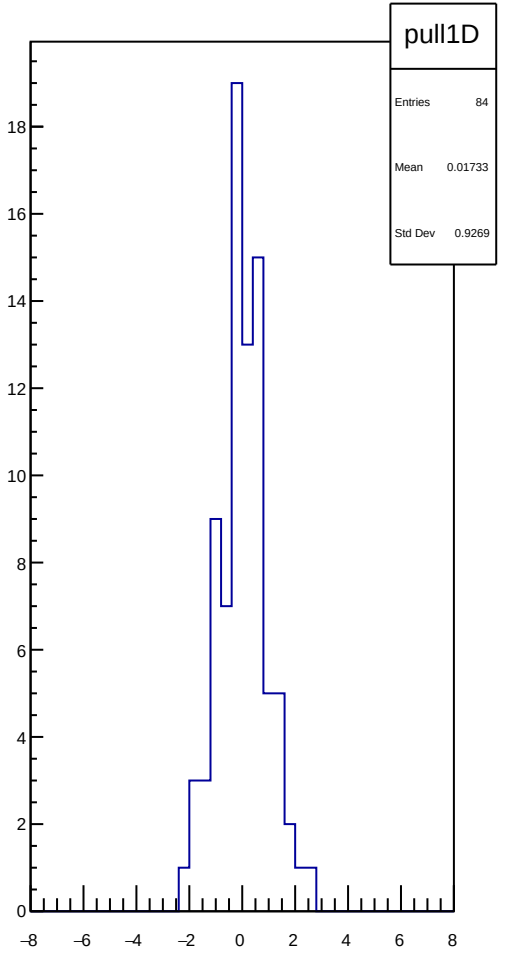

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 145.6 / 83
p0 3394 ± 2.657
3550
3500
3450
3400
3350
3300

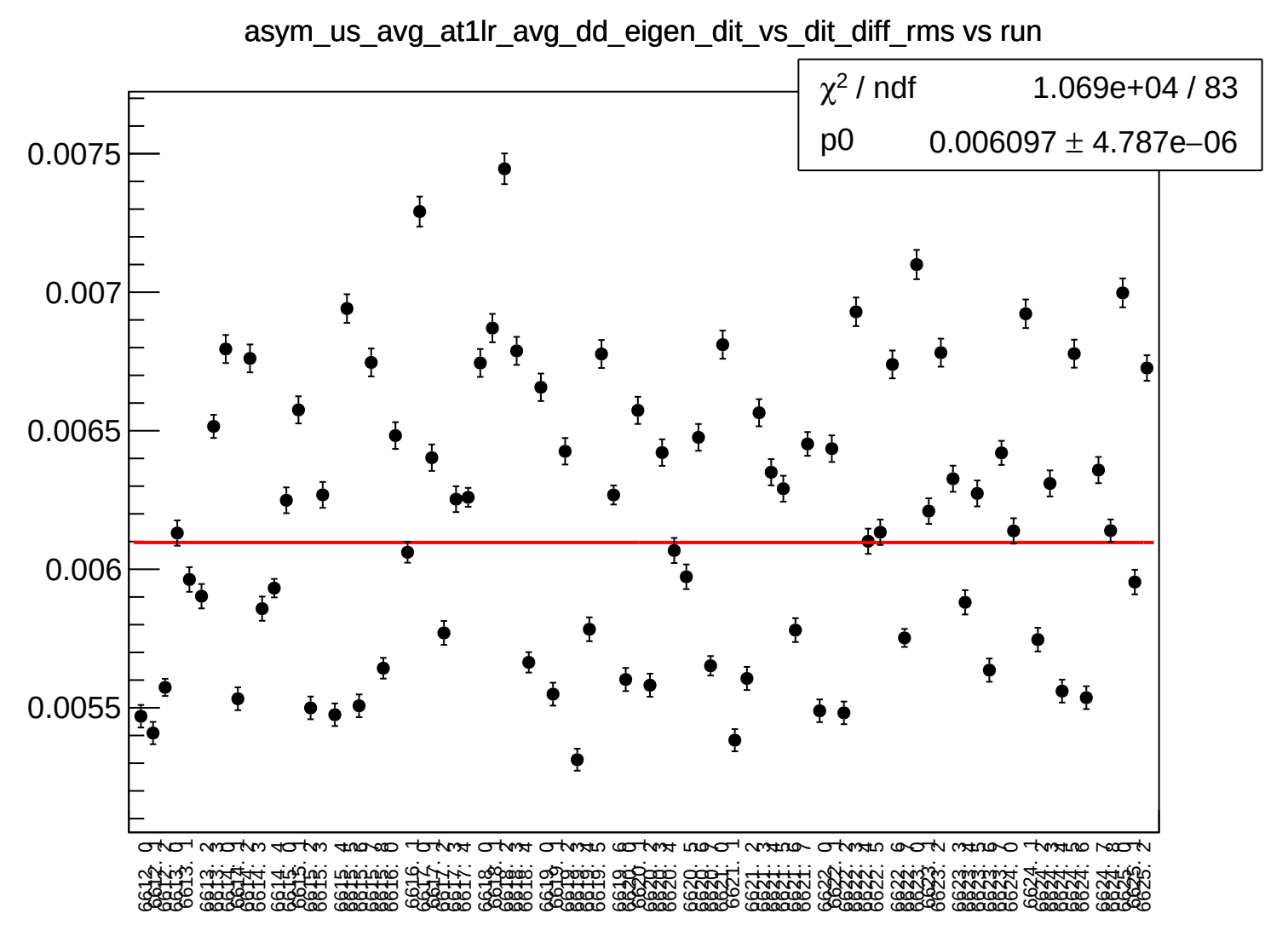

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82 / 83
p0 4.198 ± 3.757
100
50
0
−50
−100
pull
Entries 84
Mean 499
Std Dev 0
2
1
0
−1
−2

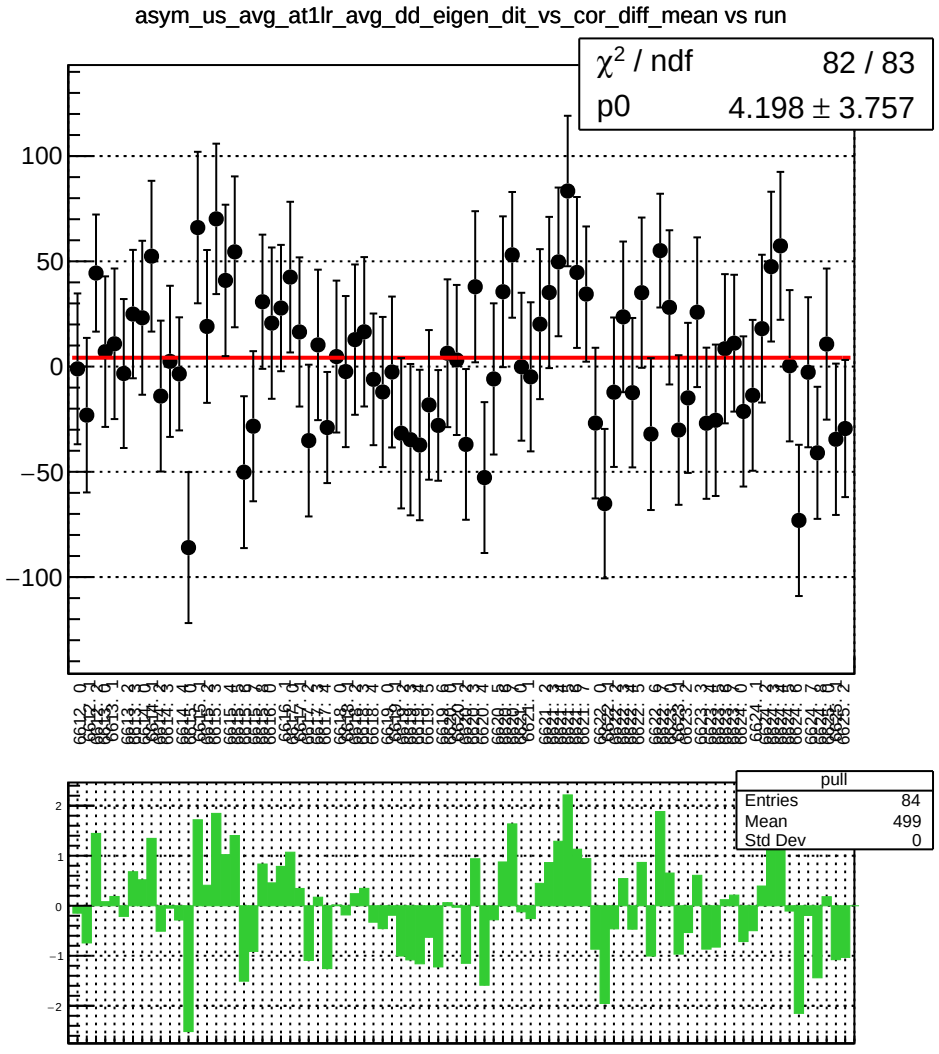

pull1D
Entries 84
Mean −0.006711
Std Dev 0.988
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

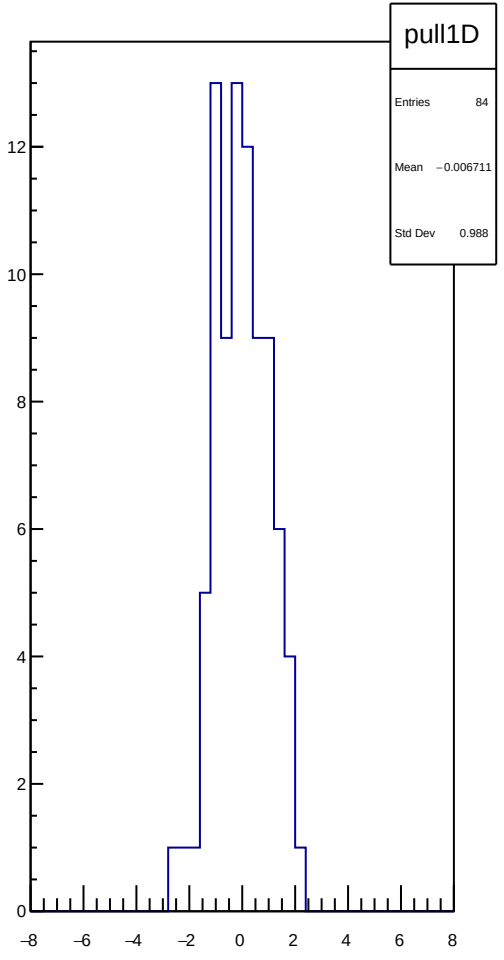

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 145.6 / 83
p0 3394 ± 2.657
3550
3500
3450
3400
3350
3300

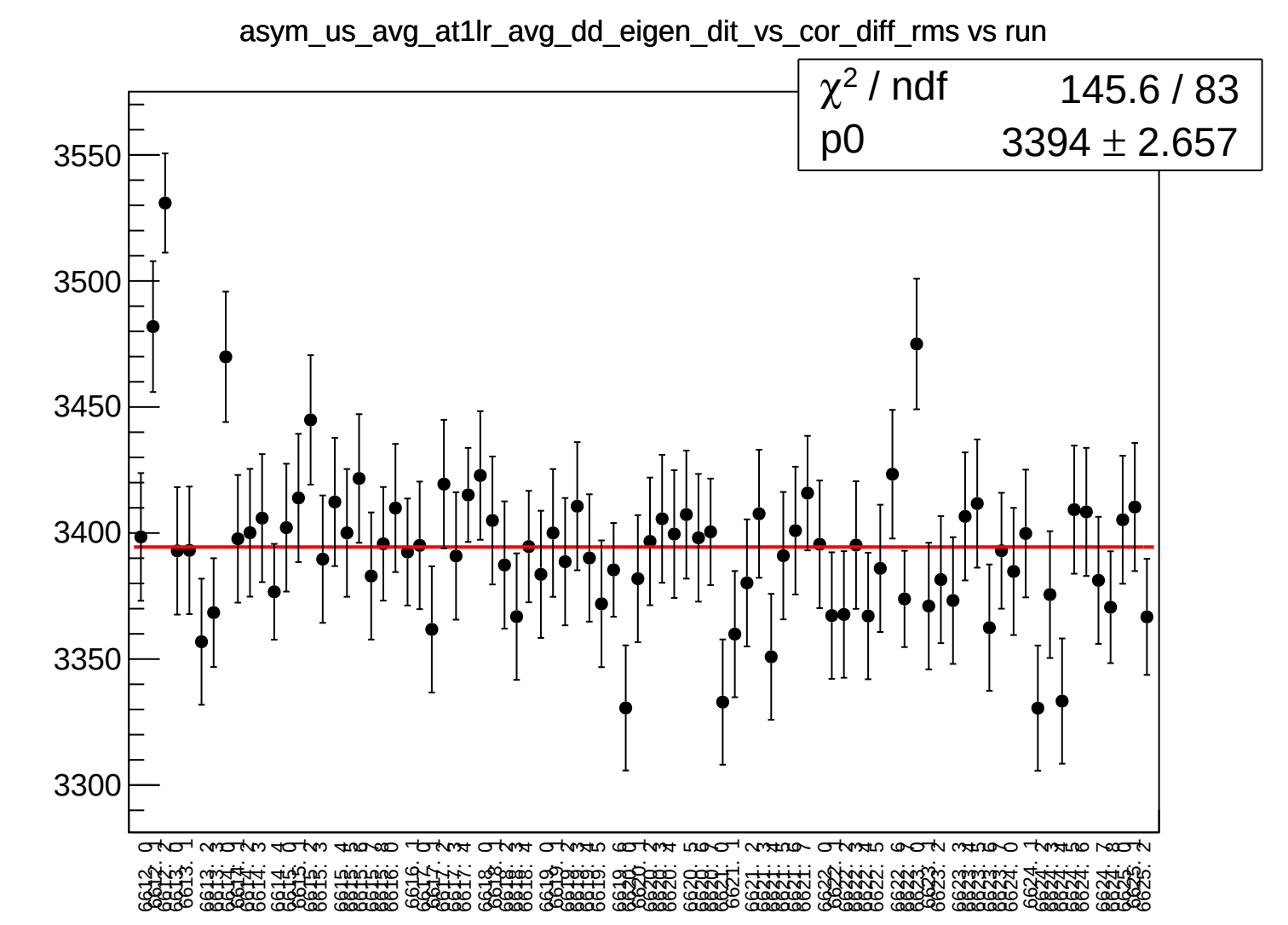

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.19 / 83
p0 −8.256e−06 ± 6.77e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 84
Mean 142.2
Std Dev 0
2
1
0
−1
−2

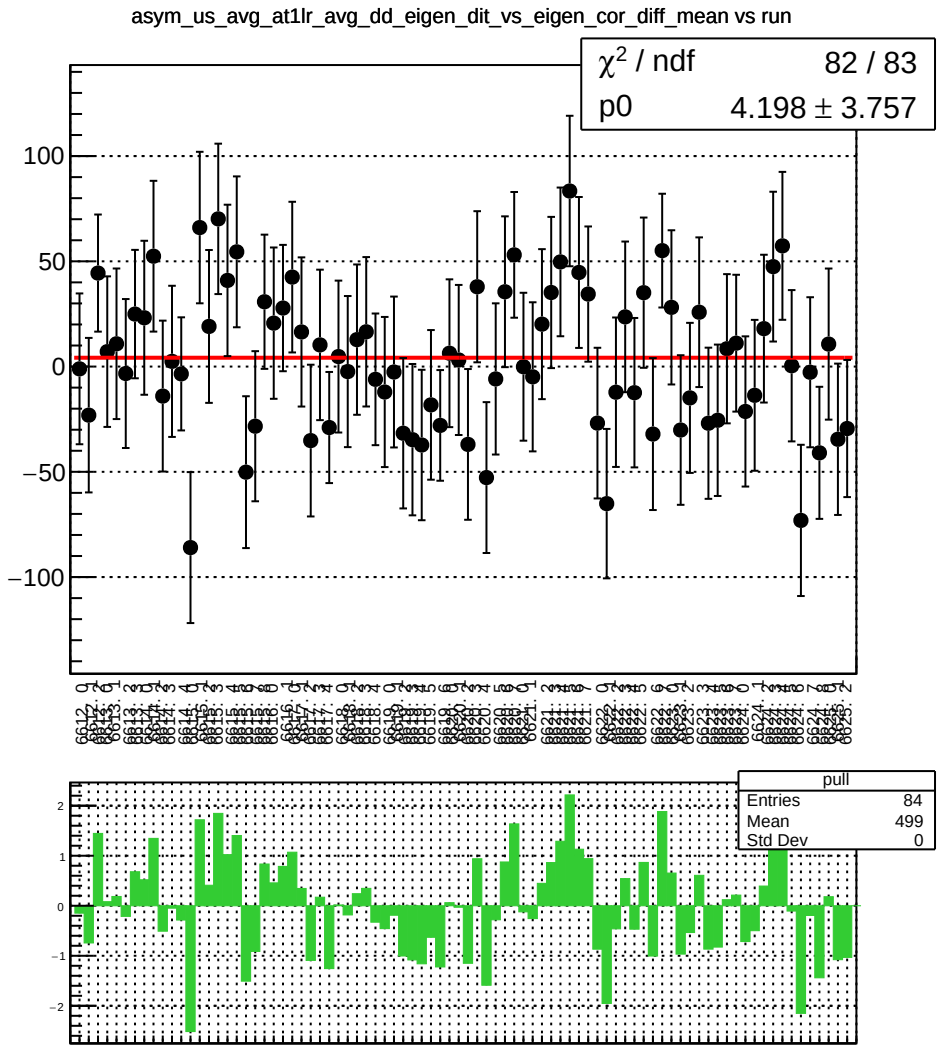

pull1D
Entries 84
Mean 0.01733
Std Dev 0.9269
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

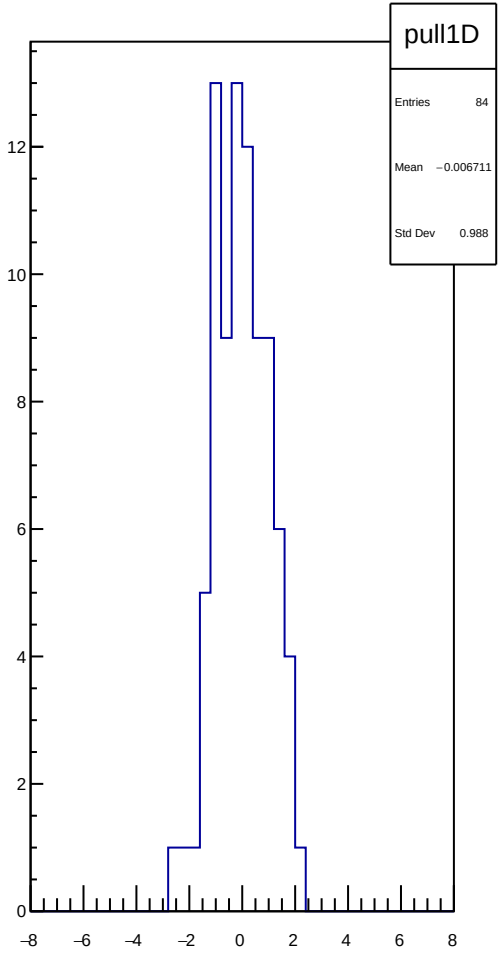

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.069e+04 / 83
p0 0.006097 ± 4.787e−06
0.0075
0.007
0.0065
0.006
0.0055

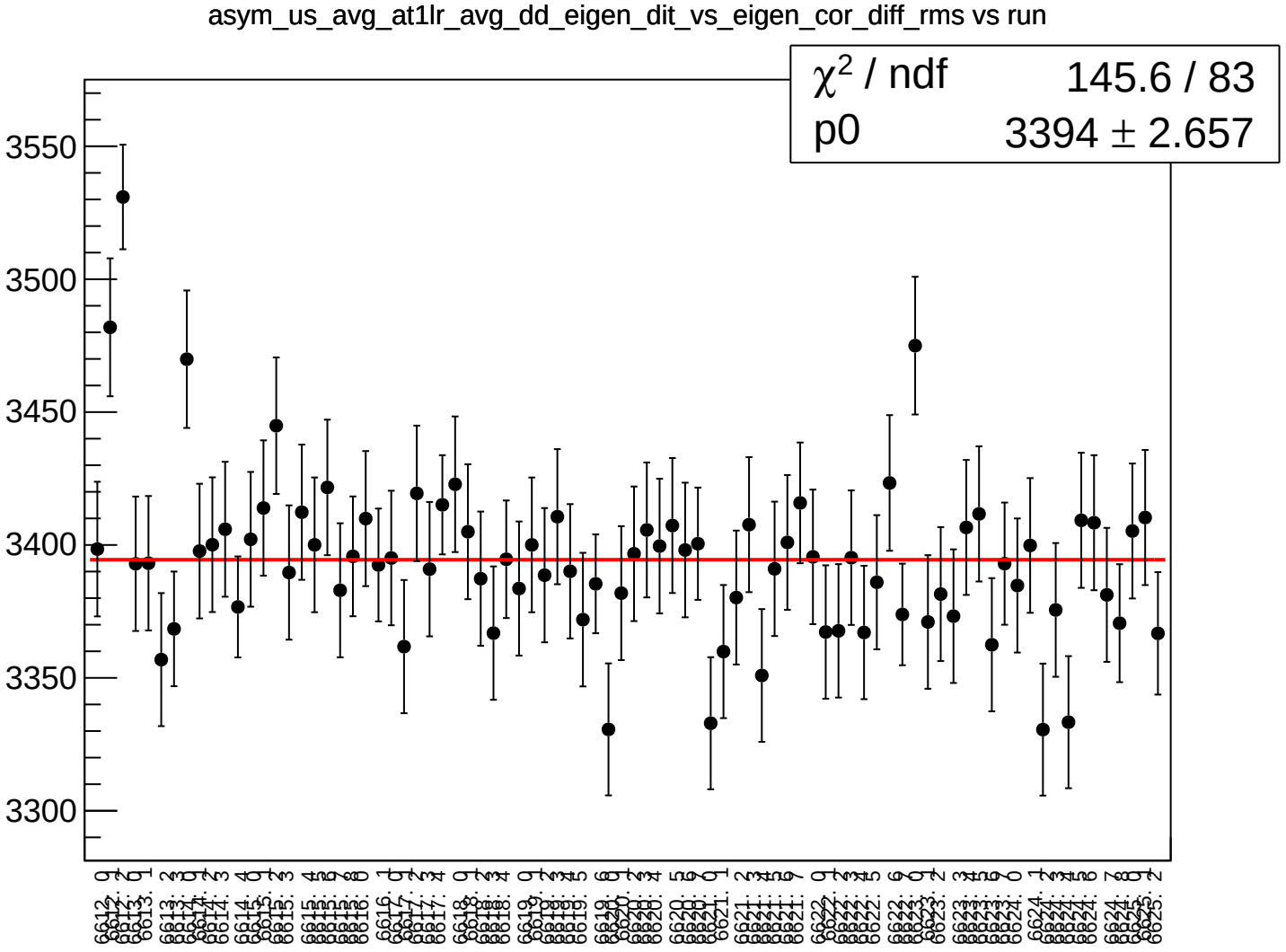

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82 / 83
p0 4.198 ± 3.757
100
50
0
−50
−100
pull
Entries 84
Mean 499
Std Dev 0
2
1
0
−1
−2

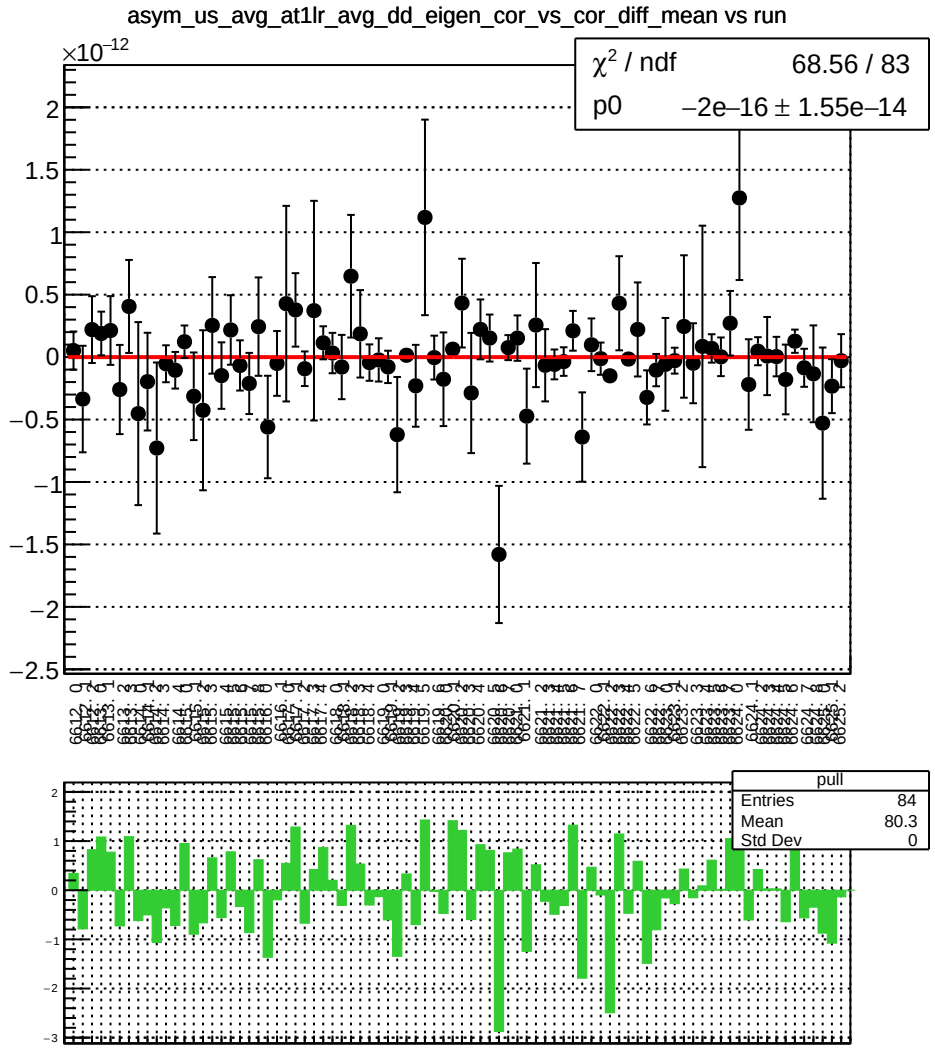

pull1D
Entries 84
Mean −0.006711
Std Dev 0.988
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

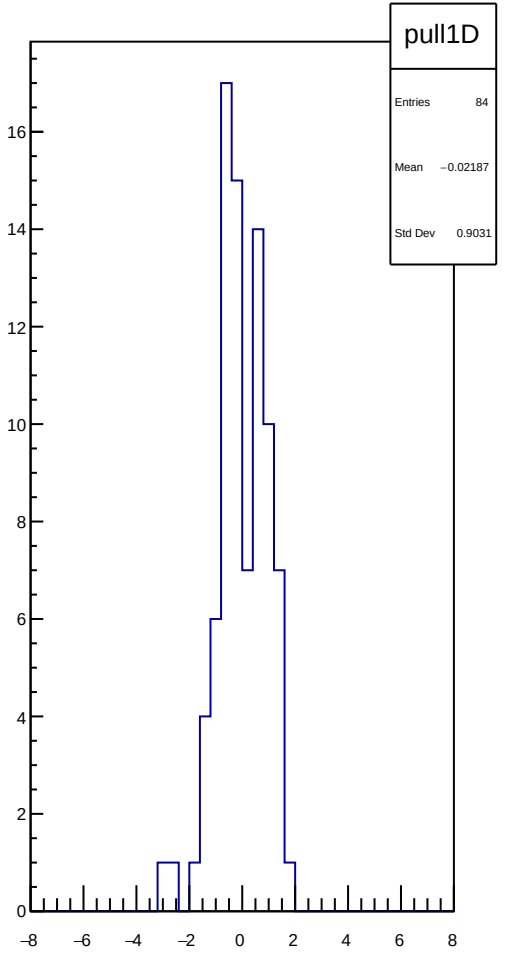

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 145.6 / 83
p0 3394 ± 2.657
3550
3500
3450
3400
3350
3300

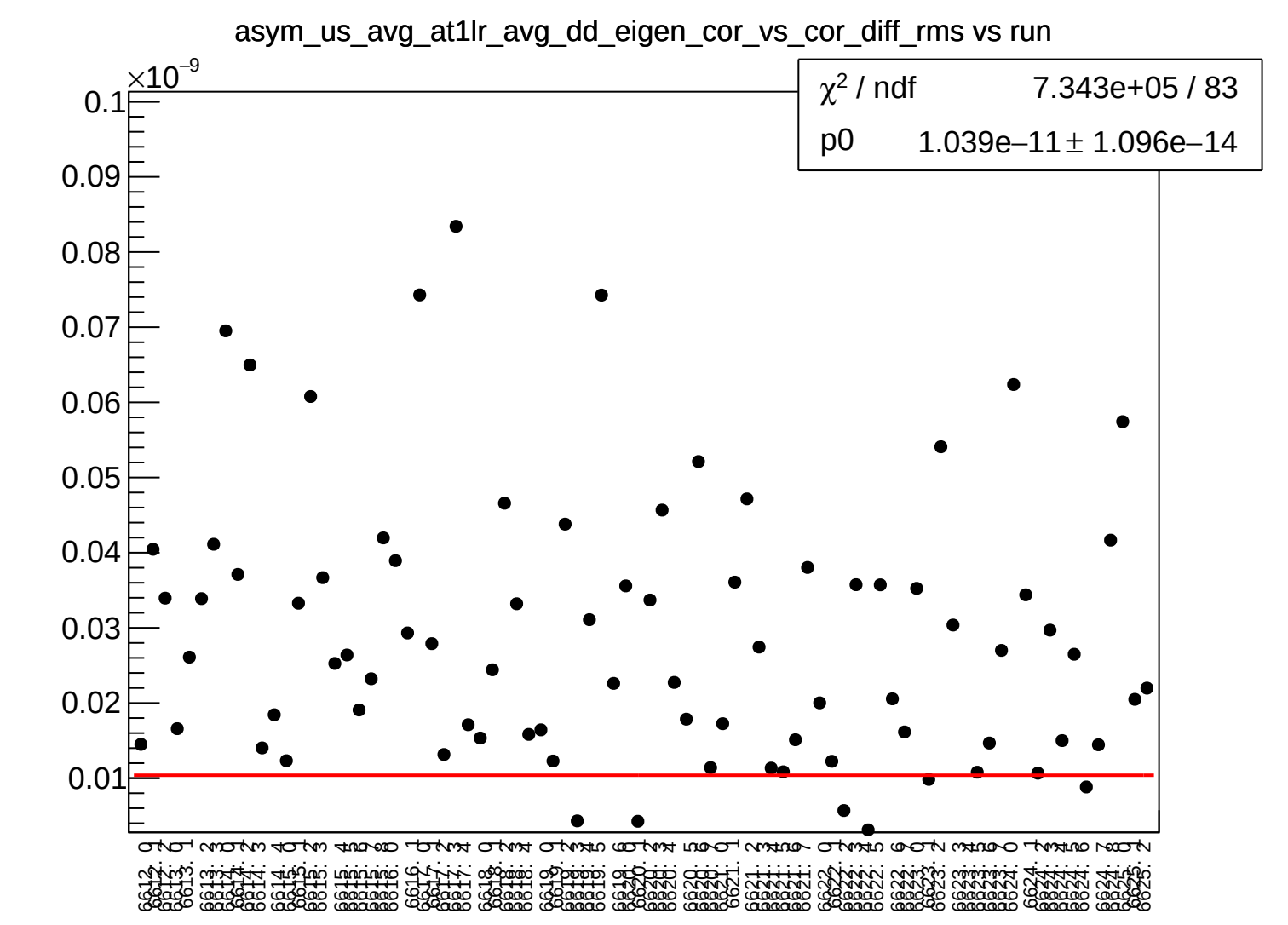

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82 / 83
p0 4.198 ± 3.757
100
50
0
−50
−100
pull
Entries 84
Mean 499
Std Dev 0
2
1
0
−1
−2

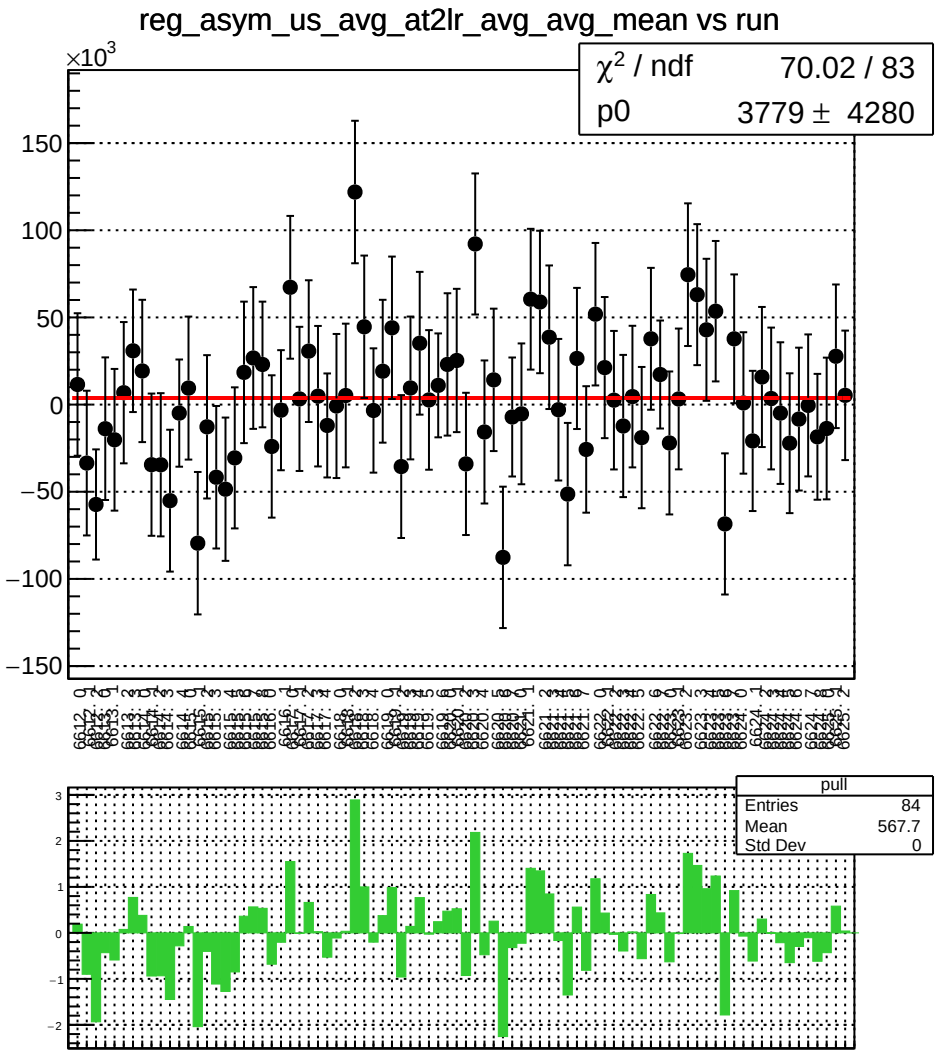

pull1D
Entries 84
Mean −0.006711
Std Dev 0.988
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

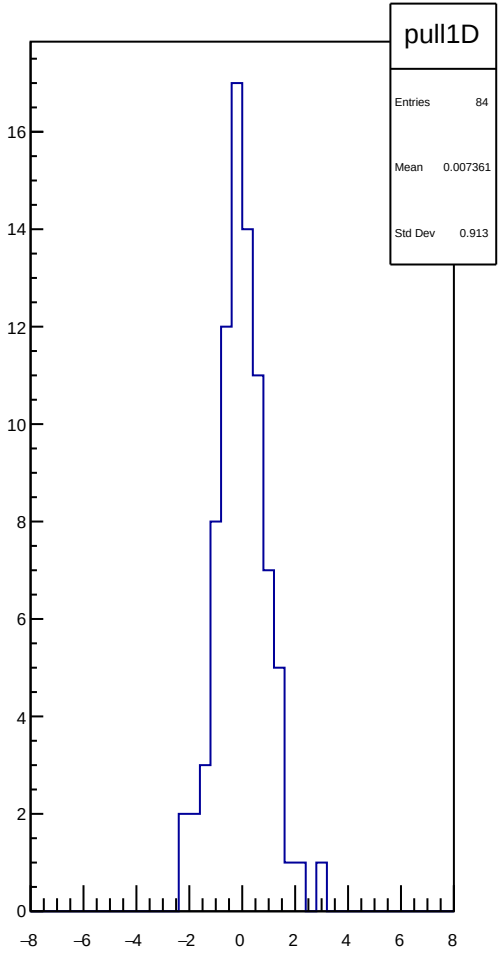

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 145.6 / 83
p0 3394 ± 2.657
3550
3500
3450
3400
3350
3300

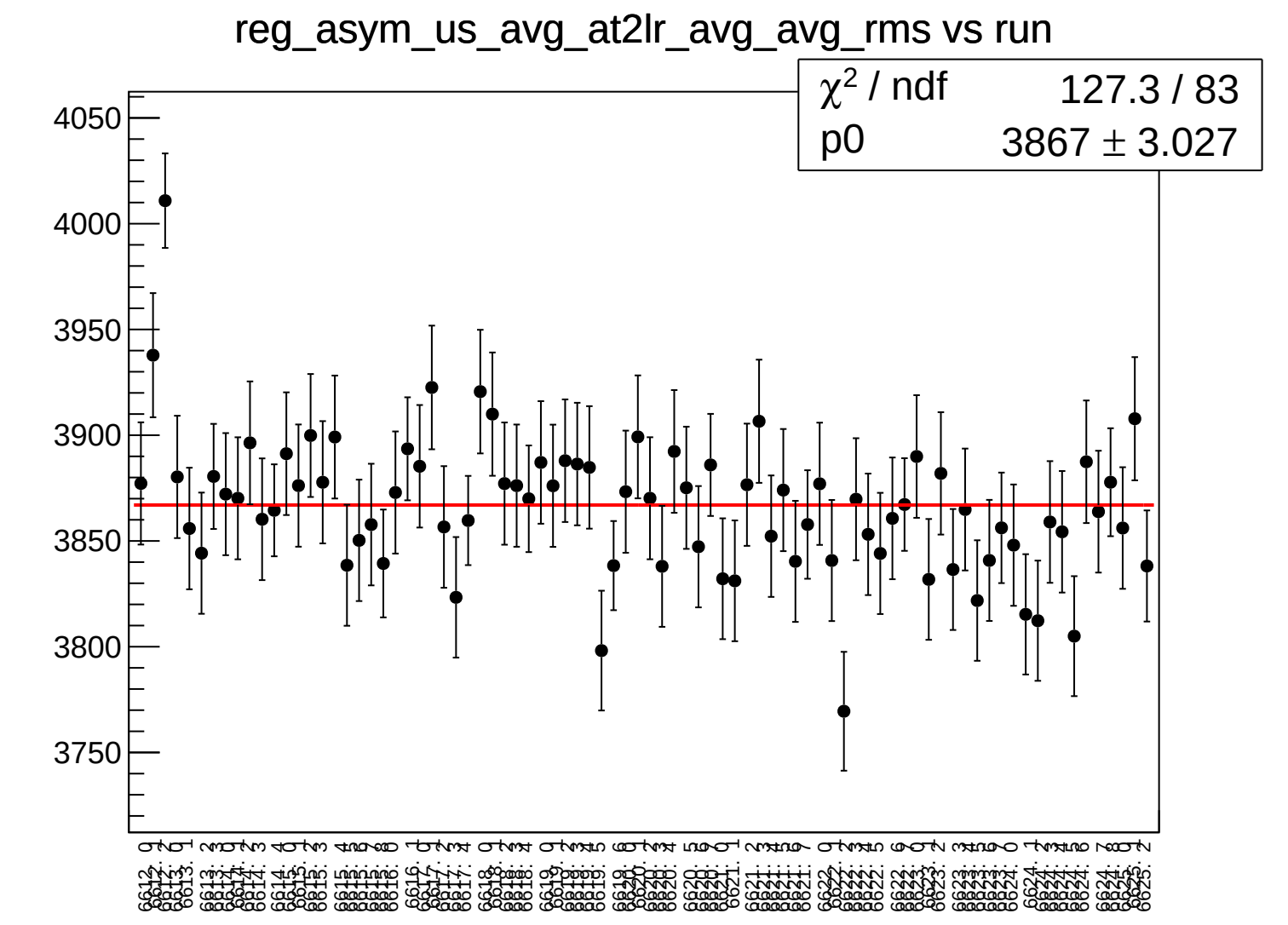

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.56 / 83
p0 −2e−16 ± 1.55e−14
pull
Entries 84
Mean 80.3
Std Dev 0

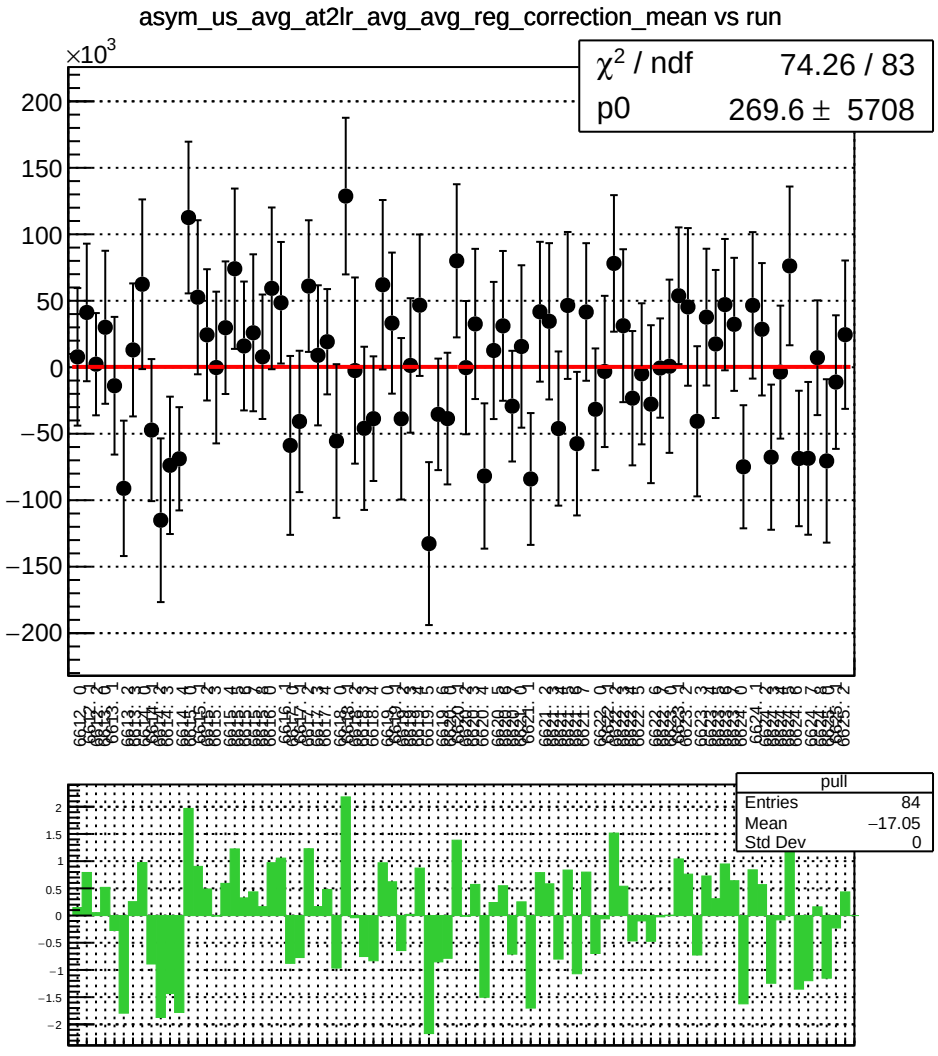

pull1D
Entries 84
Mean −0.02187
Std Dev 0.9031

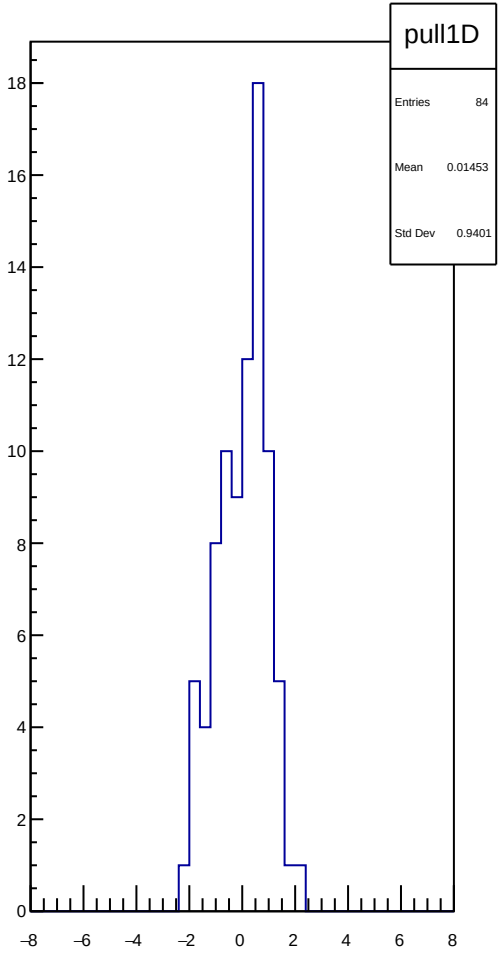

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.343e+05 / 83
p0 1.039e−11 ± 1.096e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

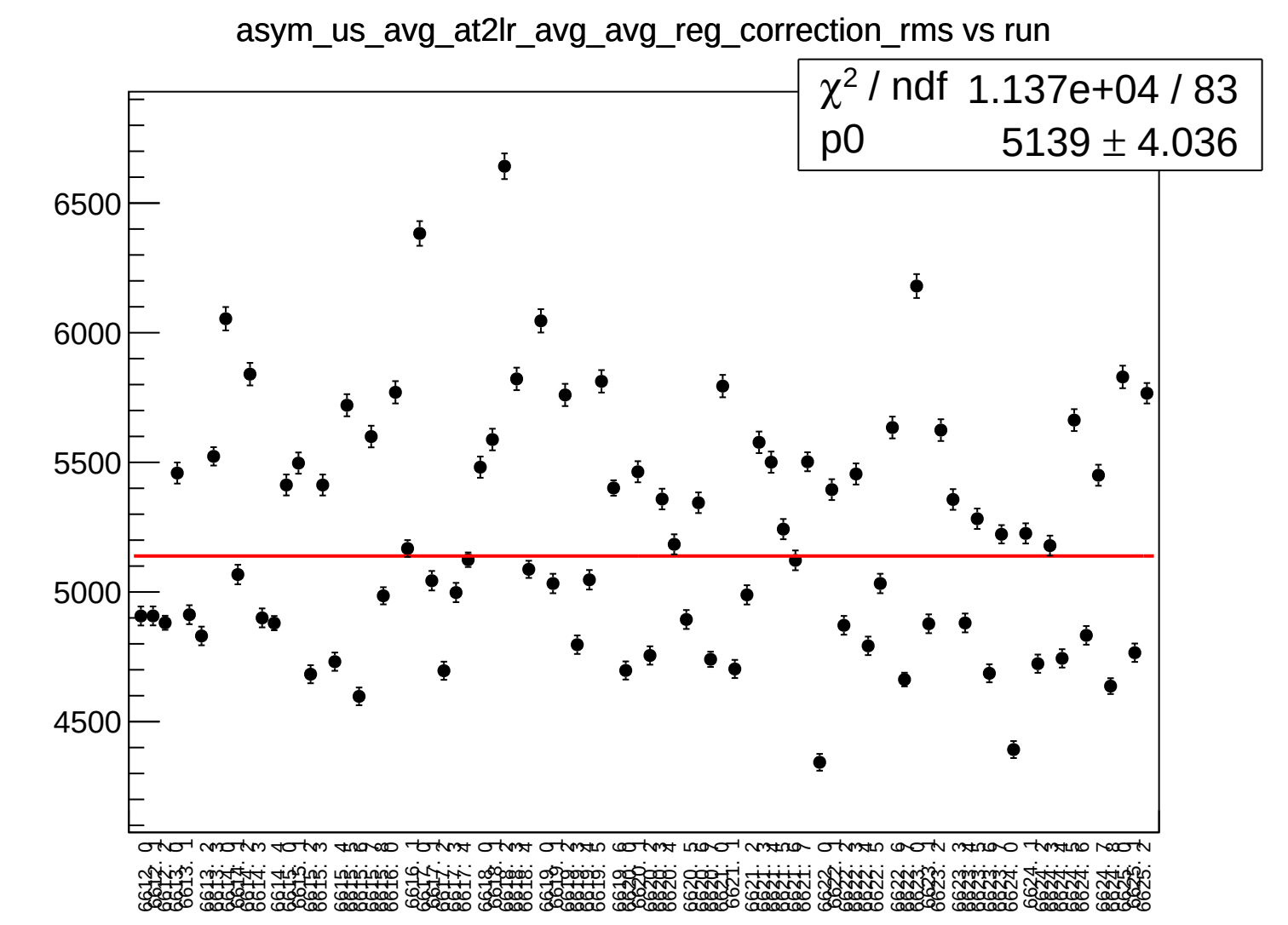

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 70.02 / 83
p0 3779 ± 4280
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 567.7
Std Dev 0
3
2
1
0
−1
−2

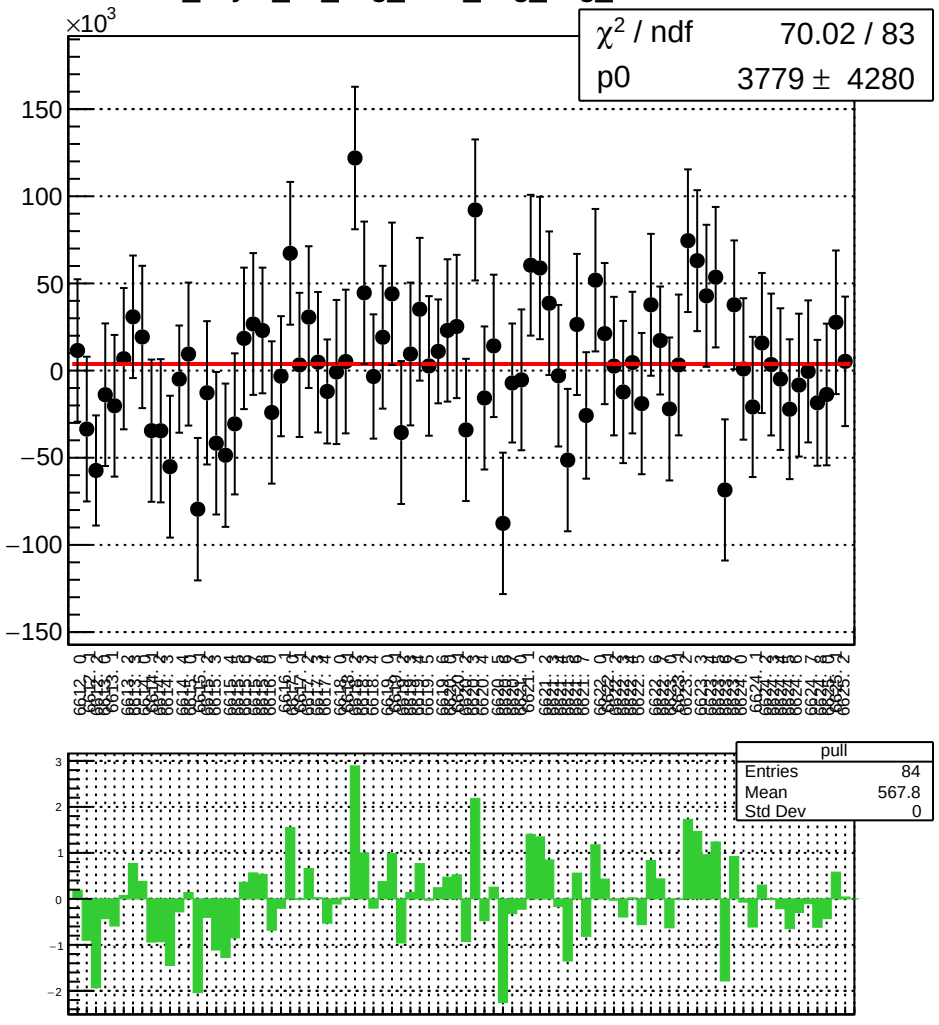

pull1D
Entries 84
Mean 0.007361
Std Dev 0.913
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

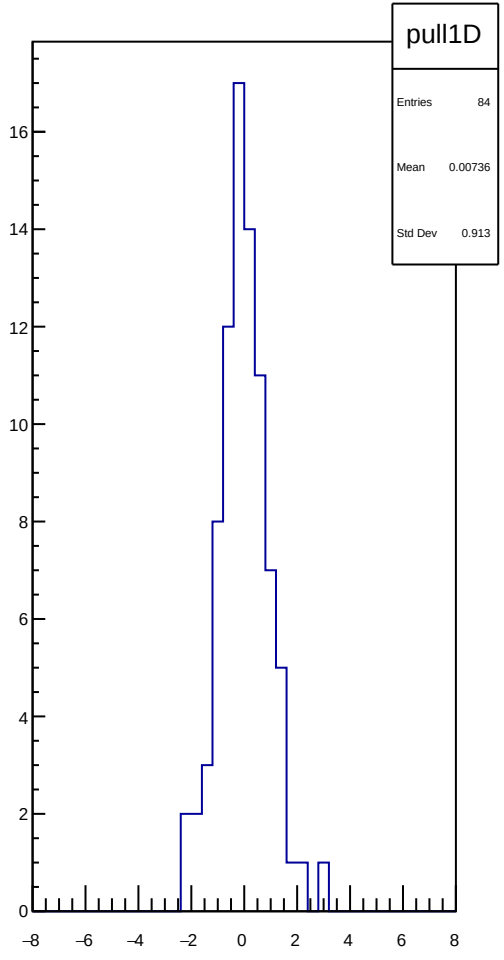

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 127.3 / 83
p0 3867 ± 3.027
4050
4000
3950
3900
3850
3800
3750

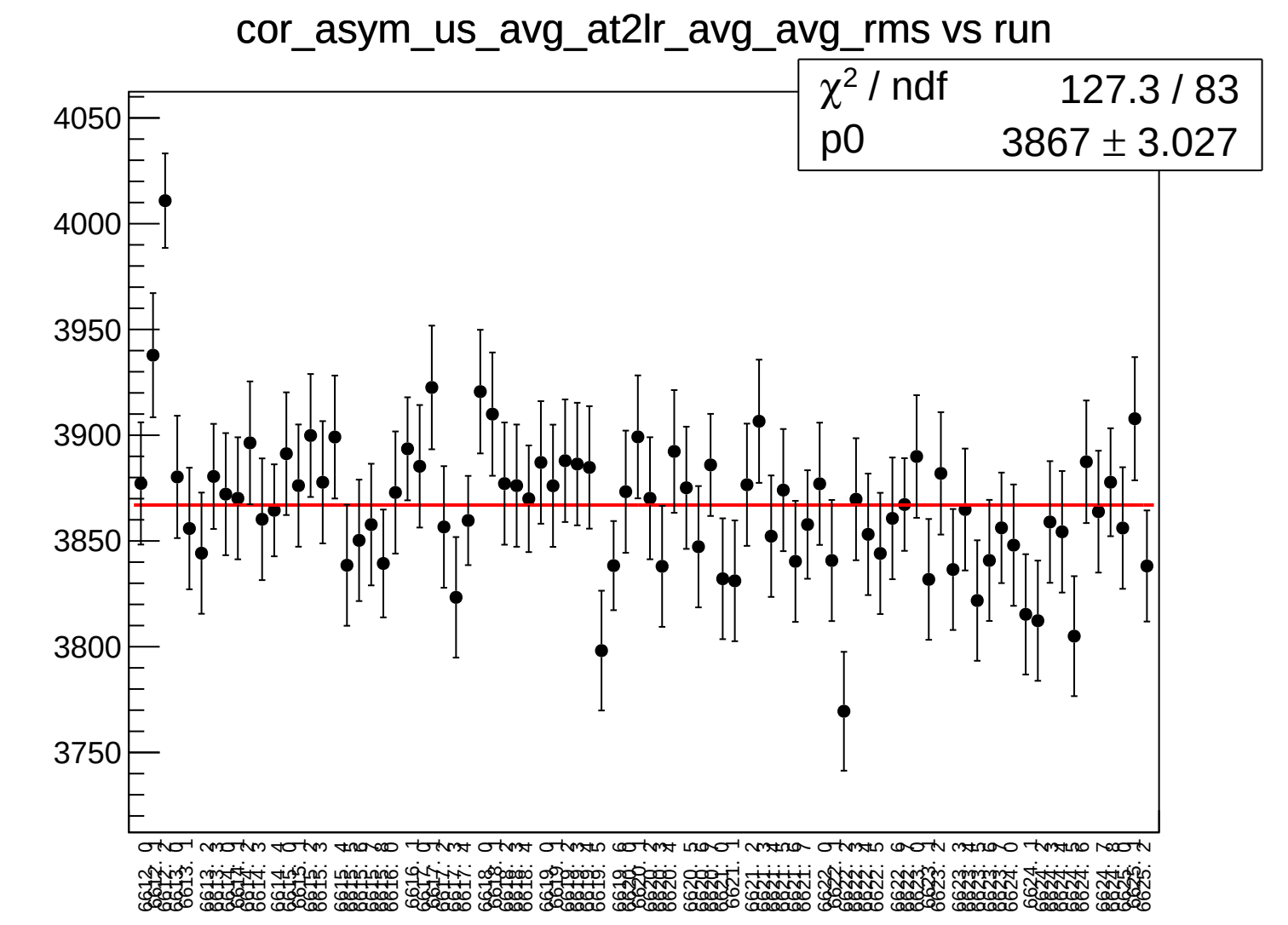

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 74.26 / 83
p0 269.6 ± 5708
pull
Entries 84
Mean −17.05
Std Dev 0

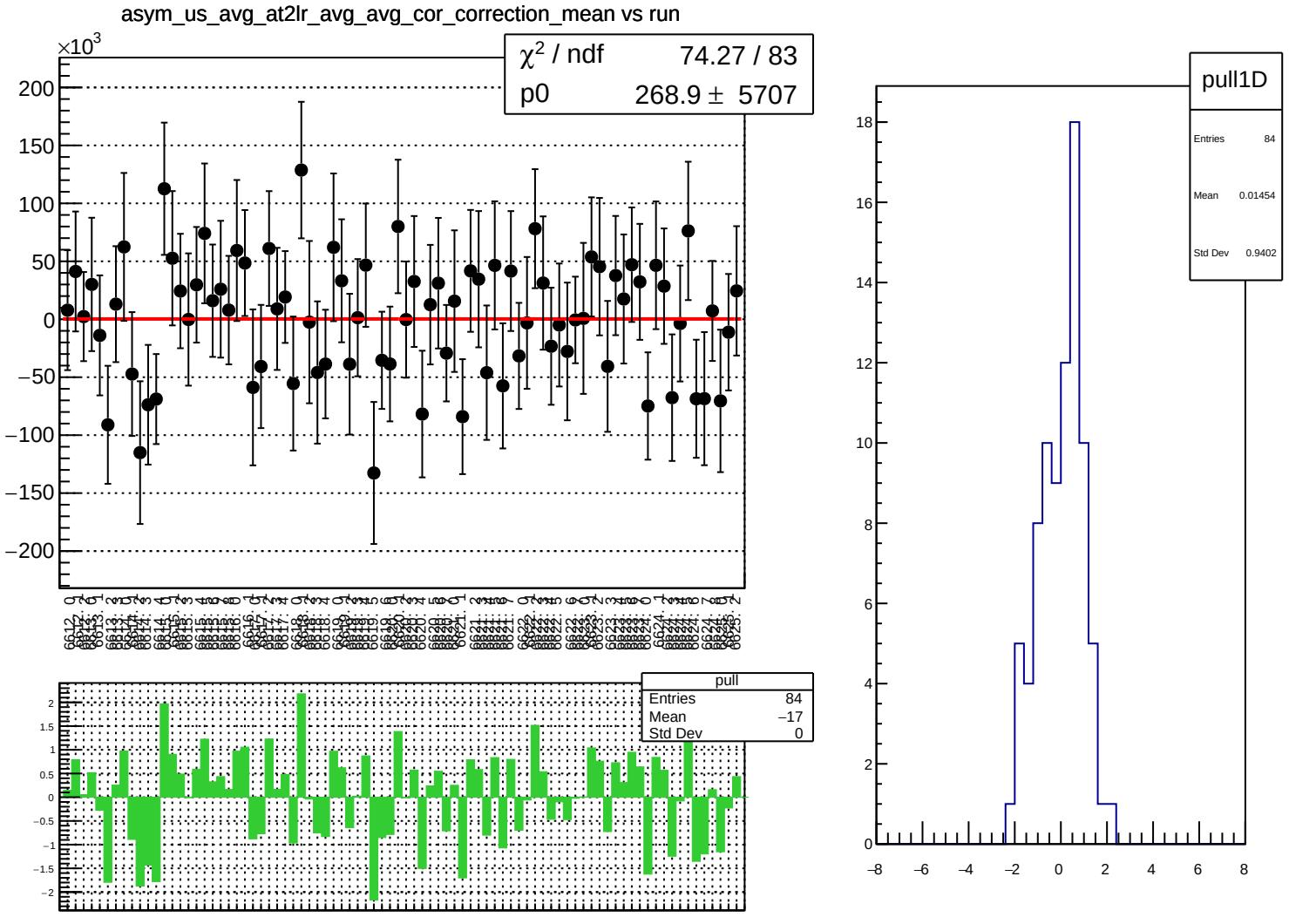

pull1D
Entries 84
Mean 0.01453
Std Dev 0.9401

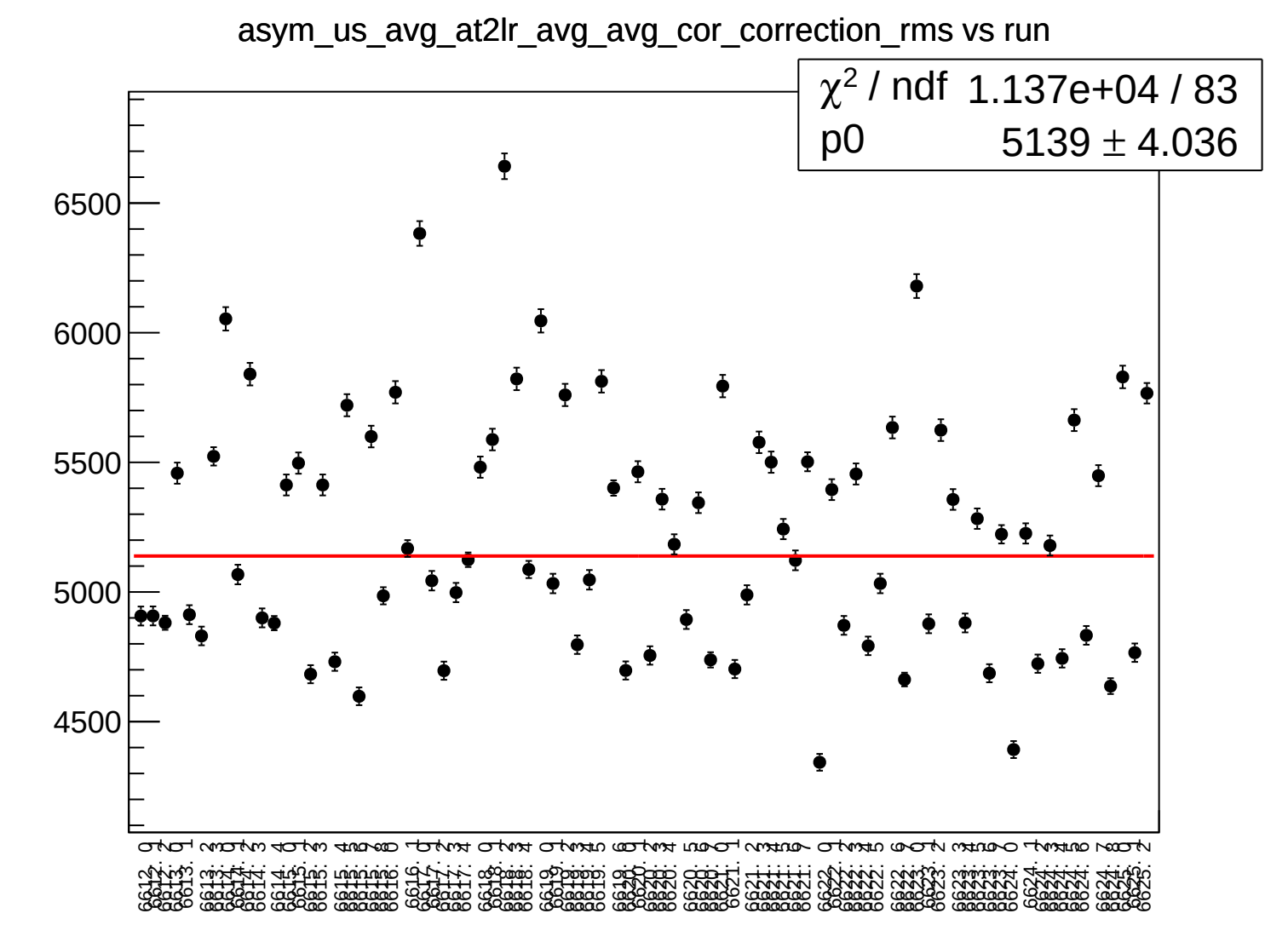

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.137e+04 / 83
p0 5139 ± 4.036
6500
6000
5500
5000
4500

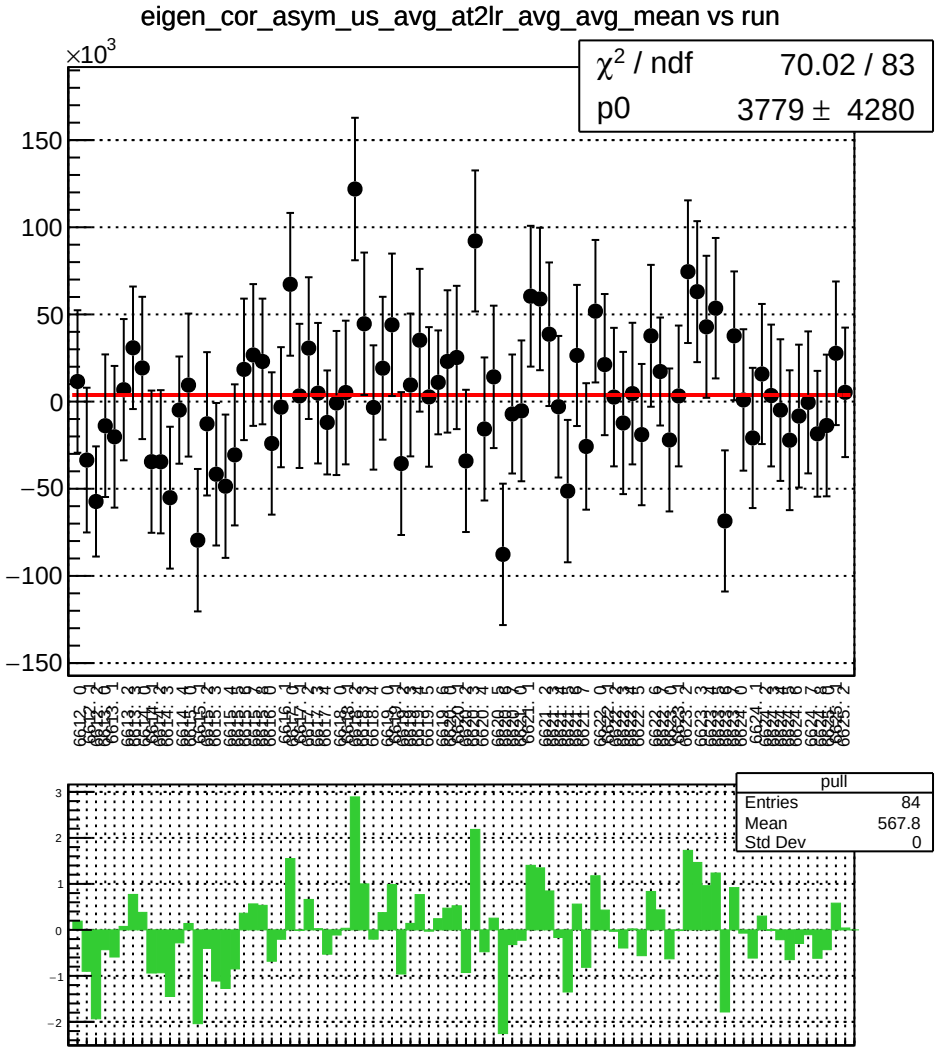

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 70.02 / 83
p0 3779 ± 4280
×10³
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 567.8
Std Dev 0
3
2
1
0
−1
−2

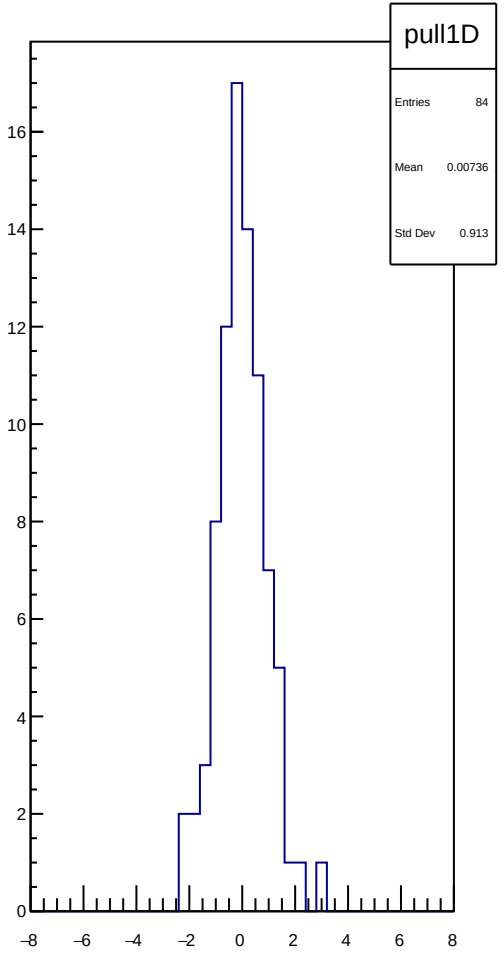

pull1D
Entries 84
Mean 0.00736
Std Dev 0.913
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

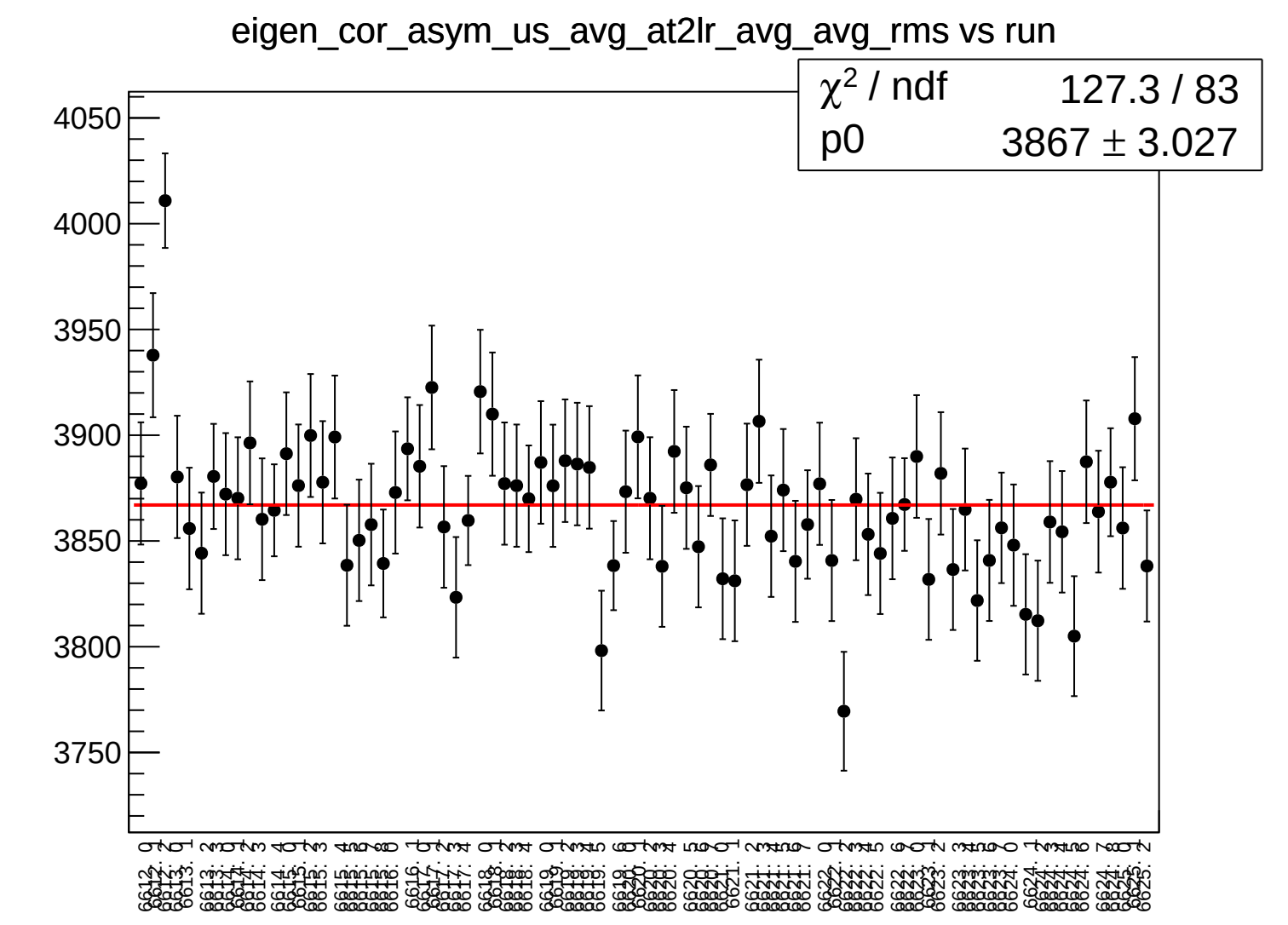

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 127.3 / 83
p0 3867 ± 3.027
4050
4000
3950
3900
3850
3800
3750

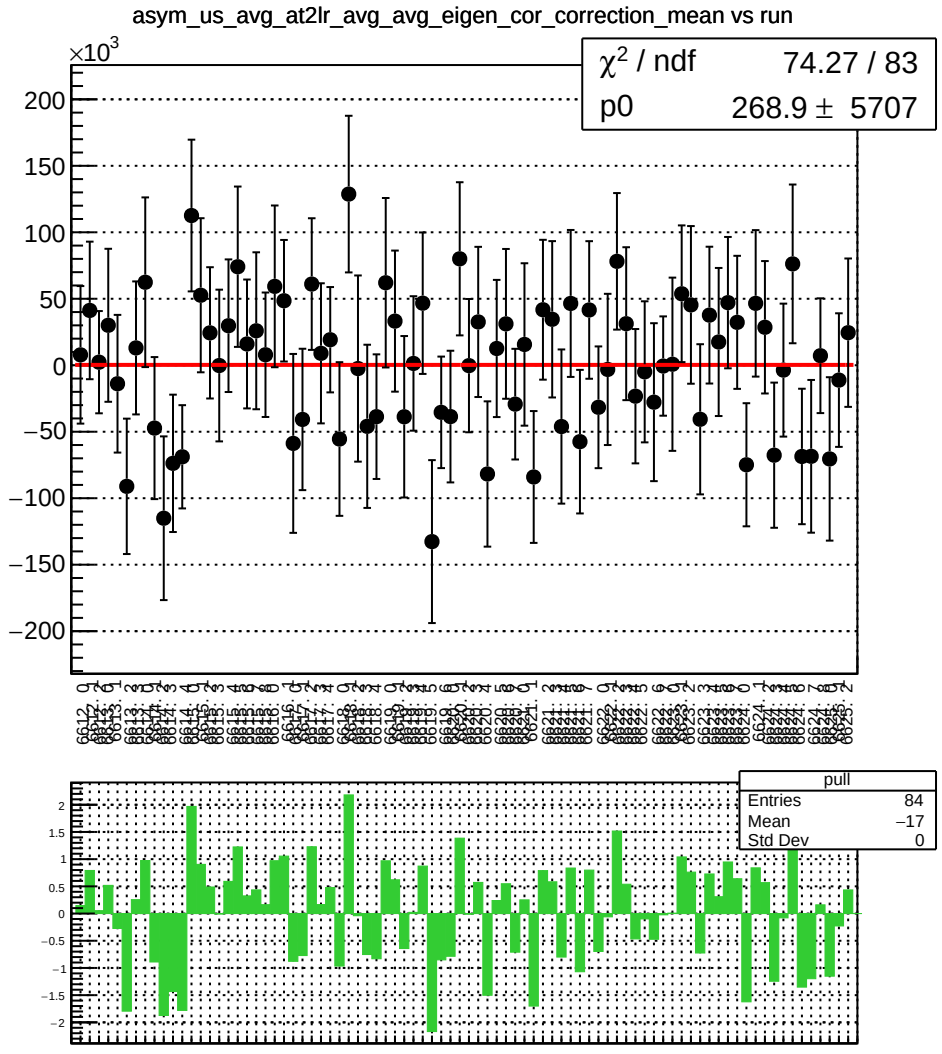

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 74.27 / 83
p0 268.9 ± 5707
pull
Entries 84
Mean −17
Std Dev 0
pull1D
Entries 84
Mean 0.01454
Std Dev 0.9402

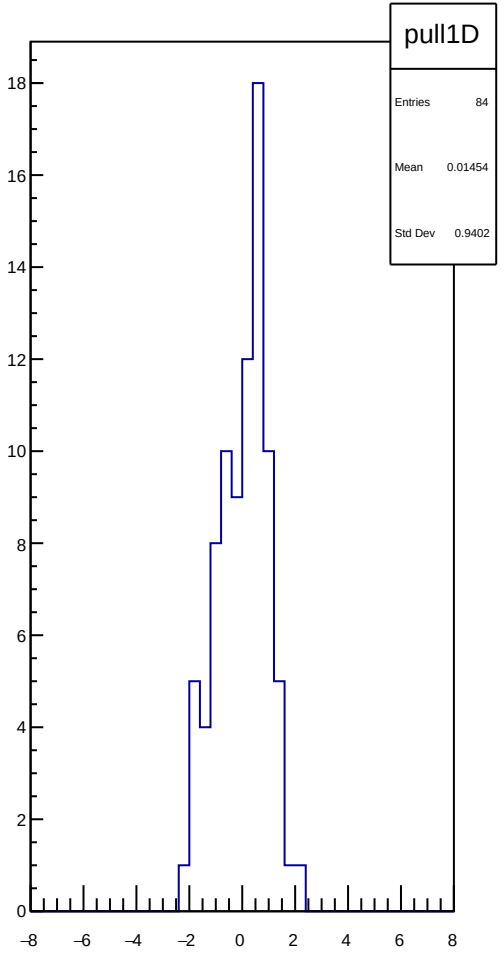

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.137e+04 / 83
p0 5139 ± 4.036
6500
6000
5500
5000
4500

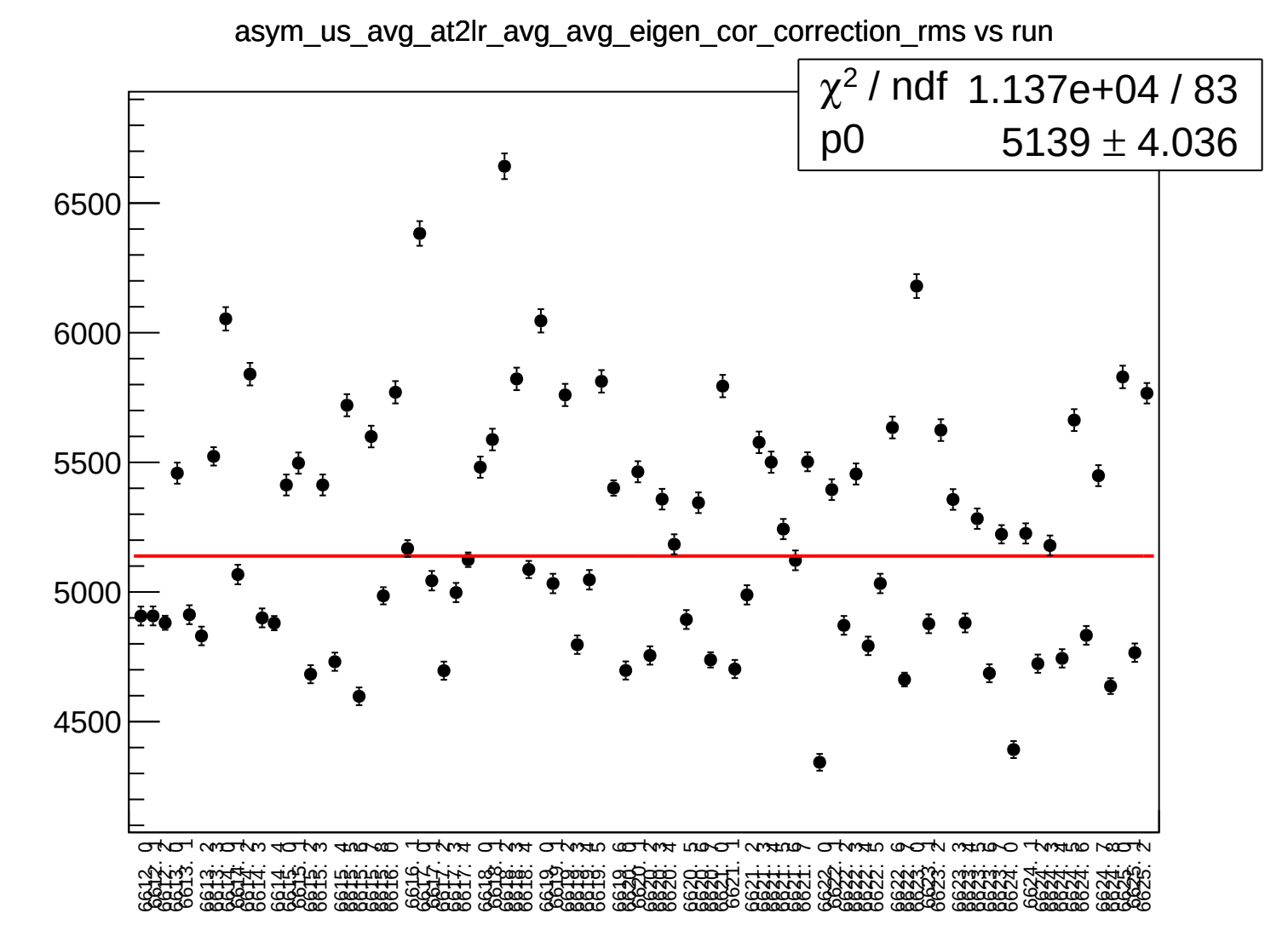

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 70.02 / 83
p0 3779 ± 4280
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 567.8
Std Dev 0
3
2
1
0
−1
−2

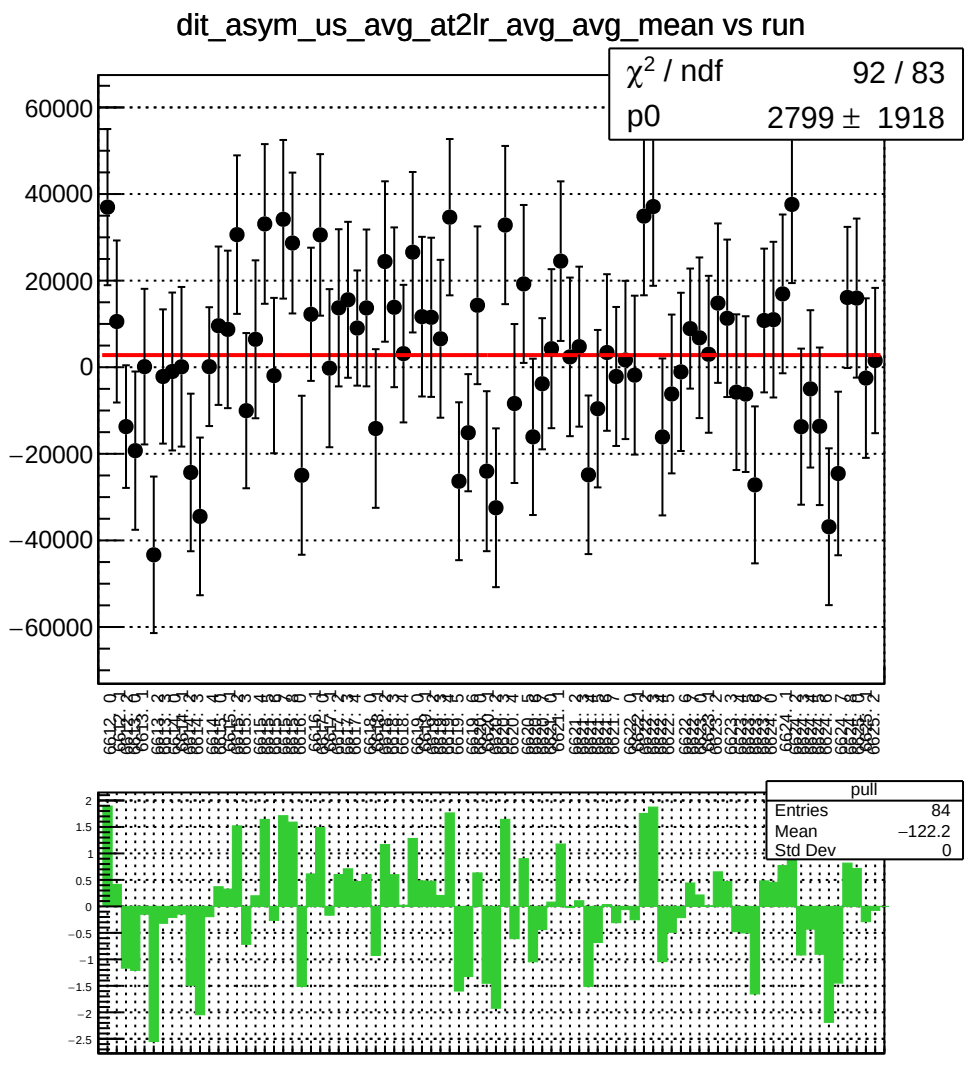

pull1D
Entries 84
Mean 0.00736
Std Dev 0.913
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

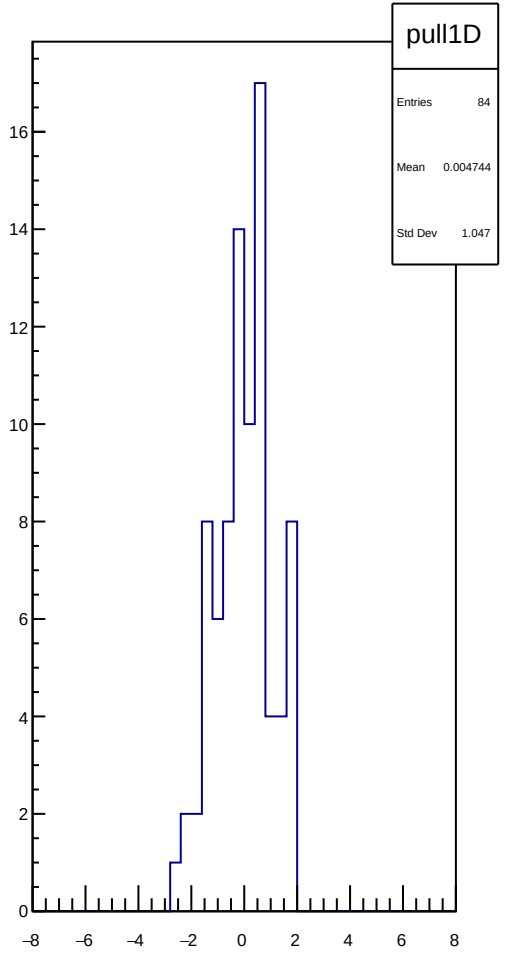

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 127.3 / 83
p0 3867 ± 3.027
4050
4000
3950
3900
3850
3800
3750

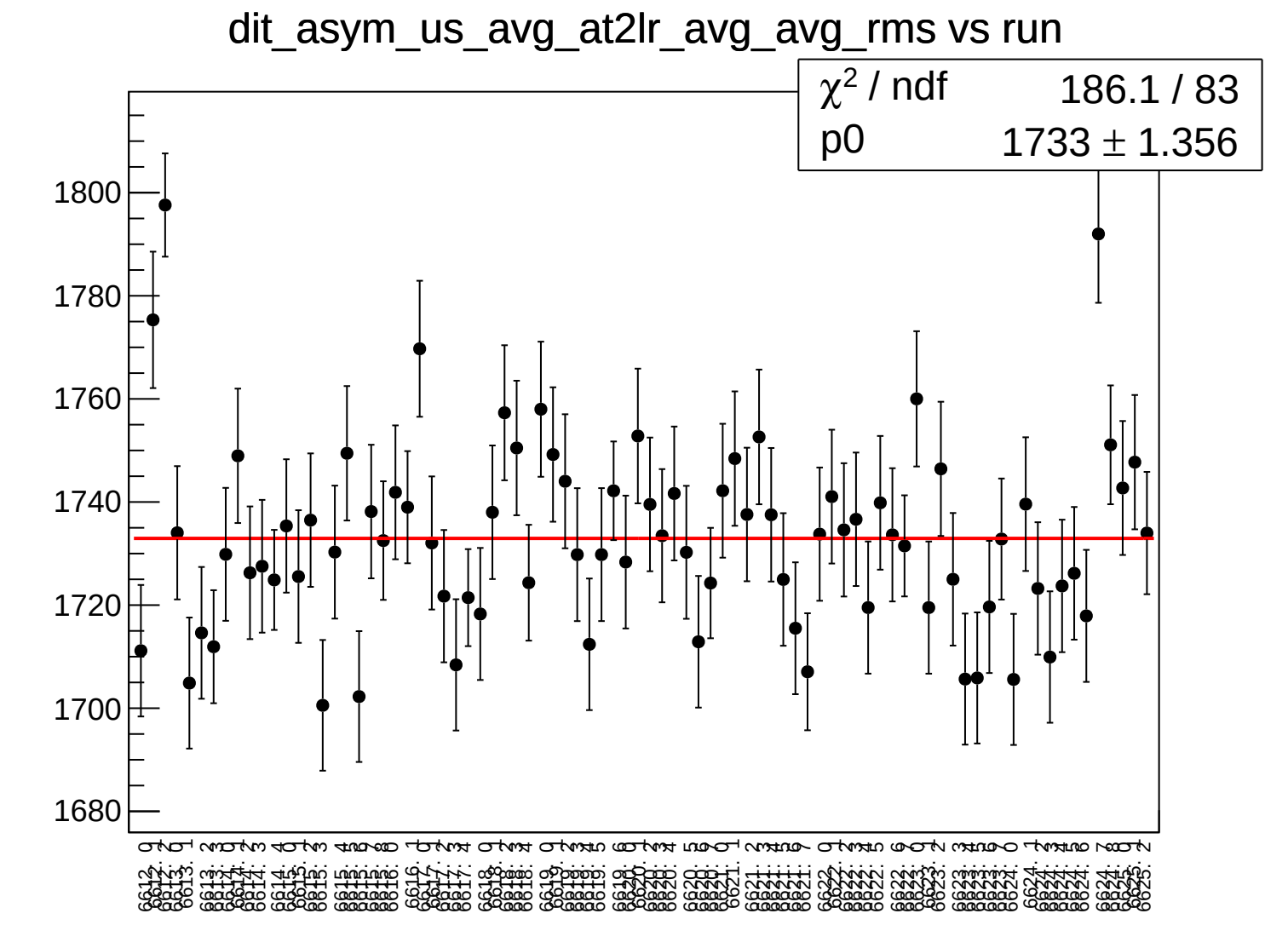

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 74.27 / 83
p0 268.9 ± 5707
pull
Entries 84
Mean −17
Std Dev 0

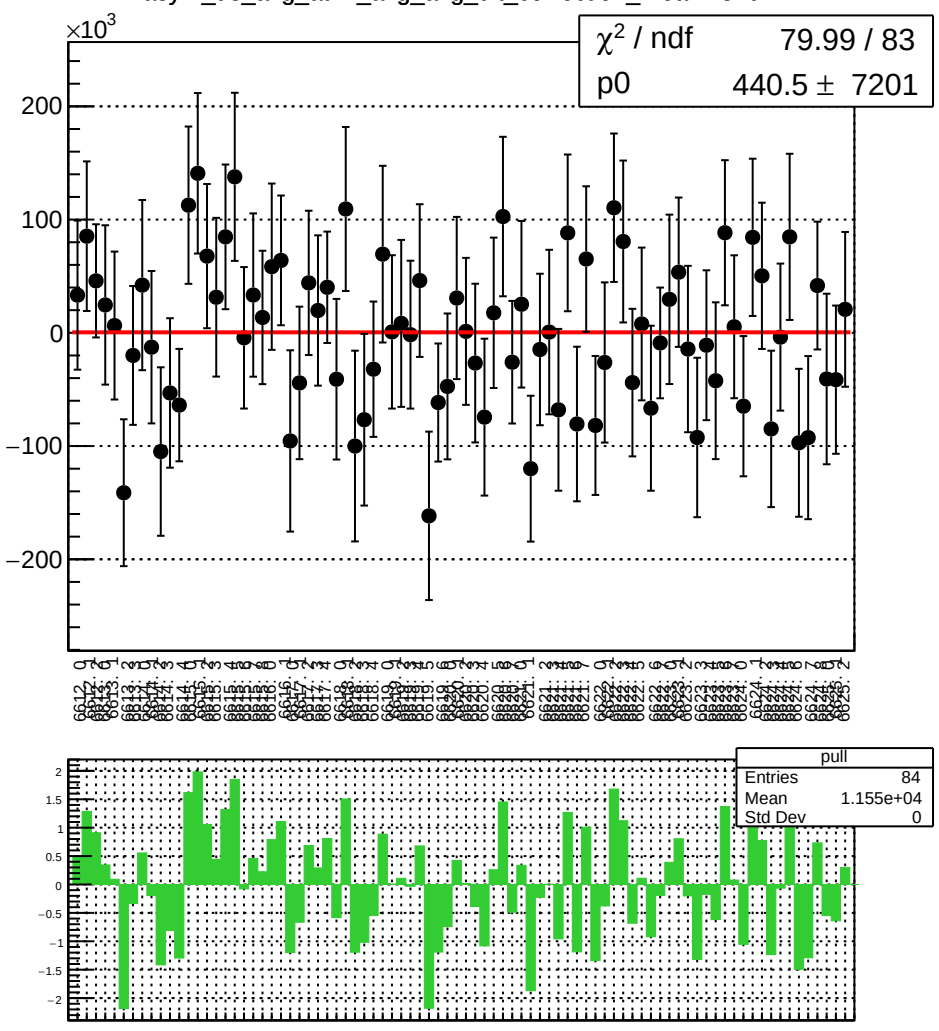

pull1D
Entries 84
Mean 0.01454
Std Dev 0.9402

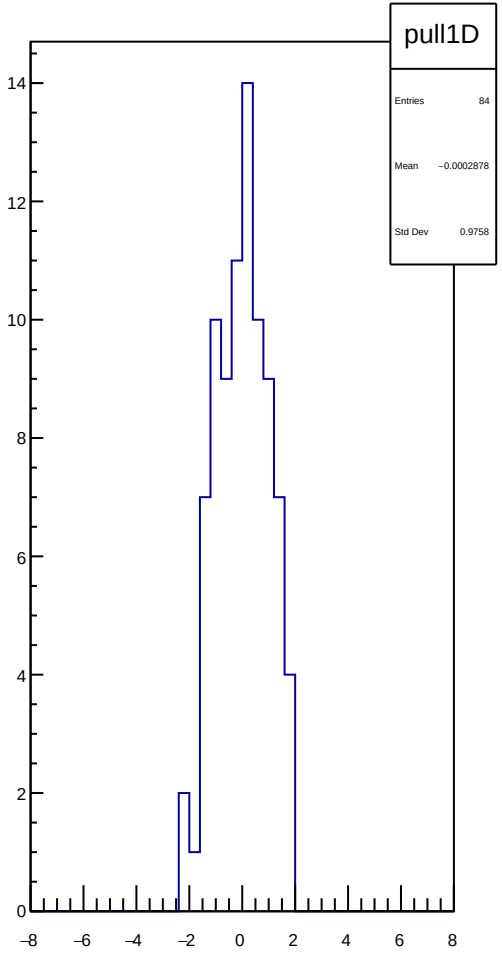

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.137e+04 / 83
p0 5139 ± 4.036
6500
6000
5500
5000
4500

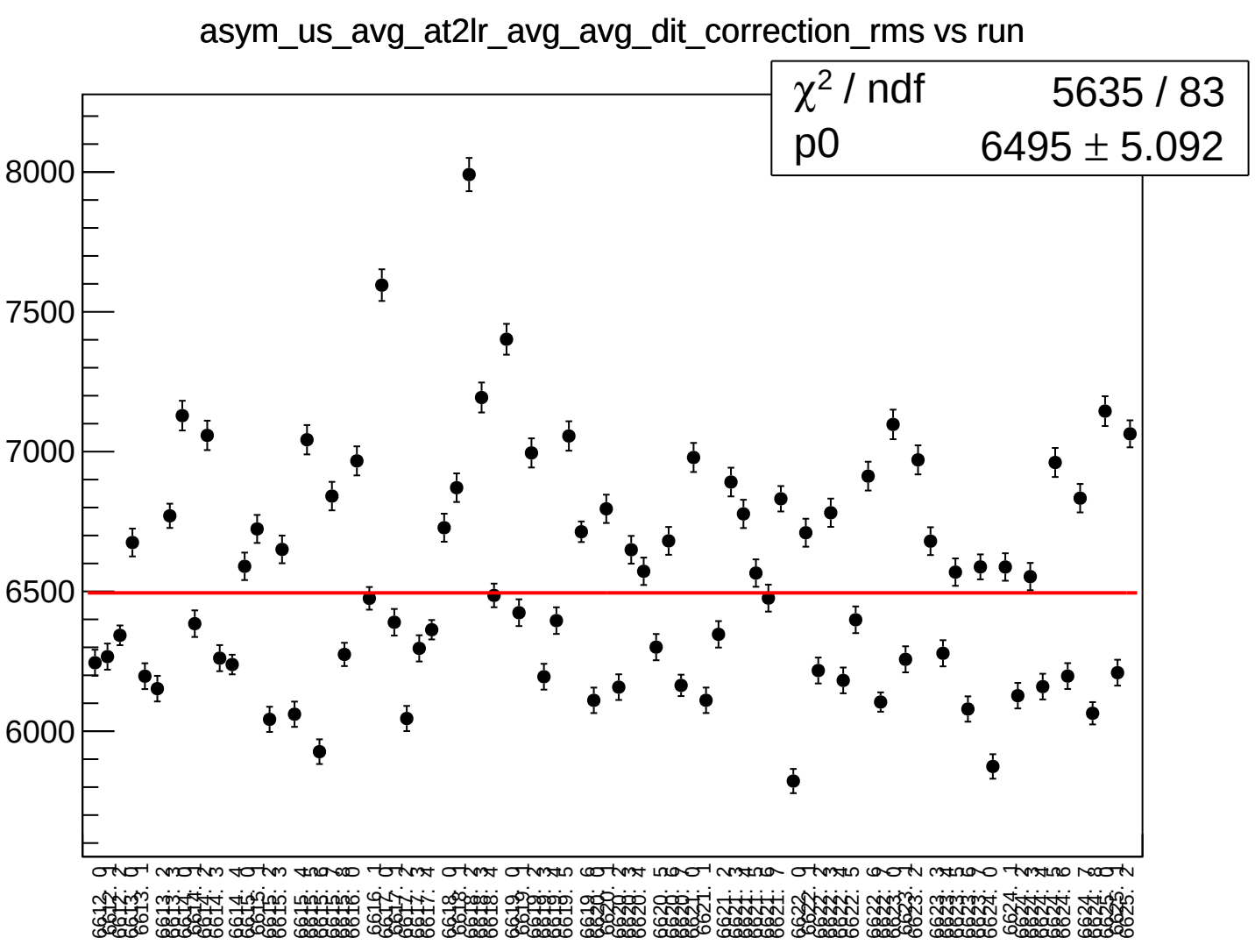

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 92 / 83
p0 2799 ± 1918
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −122.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

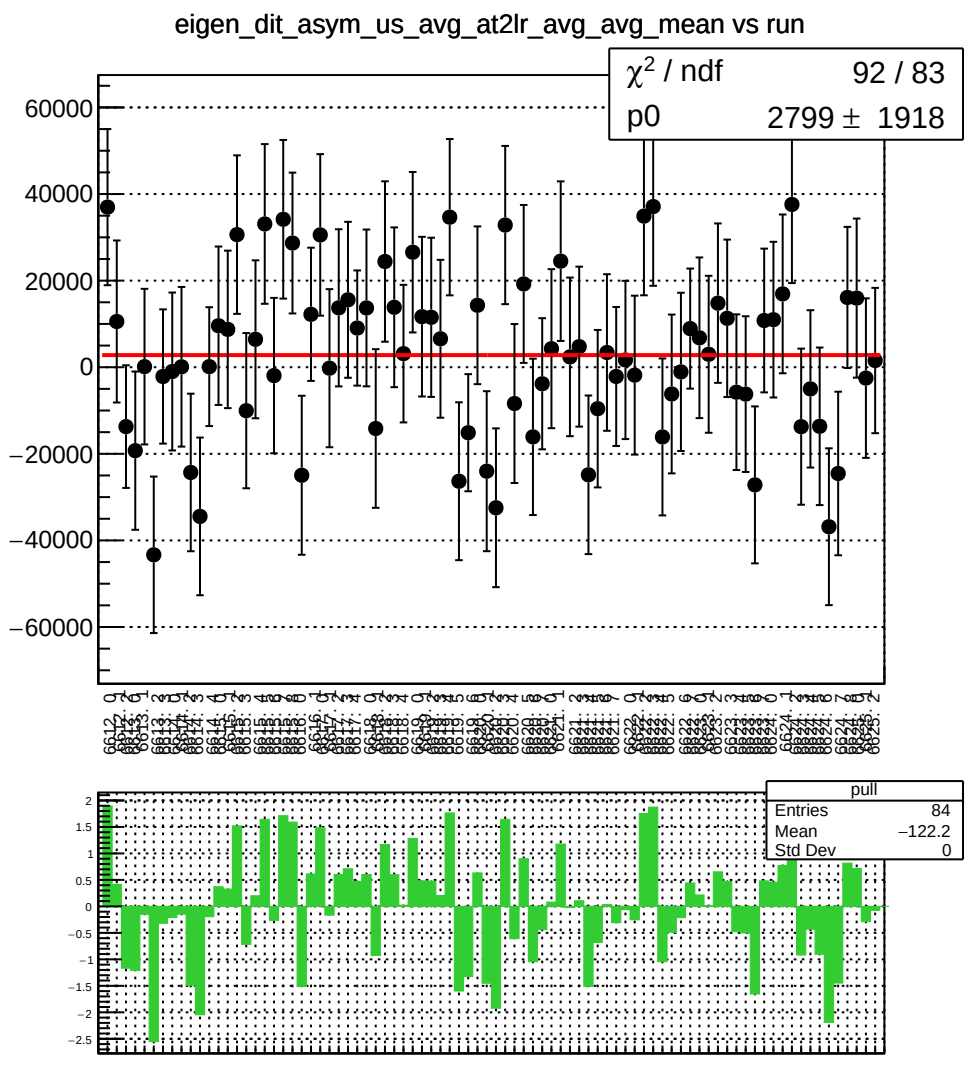

pull1D
Entries 84
Mean 0.004744
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

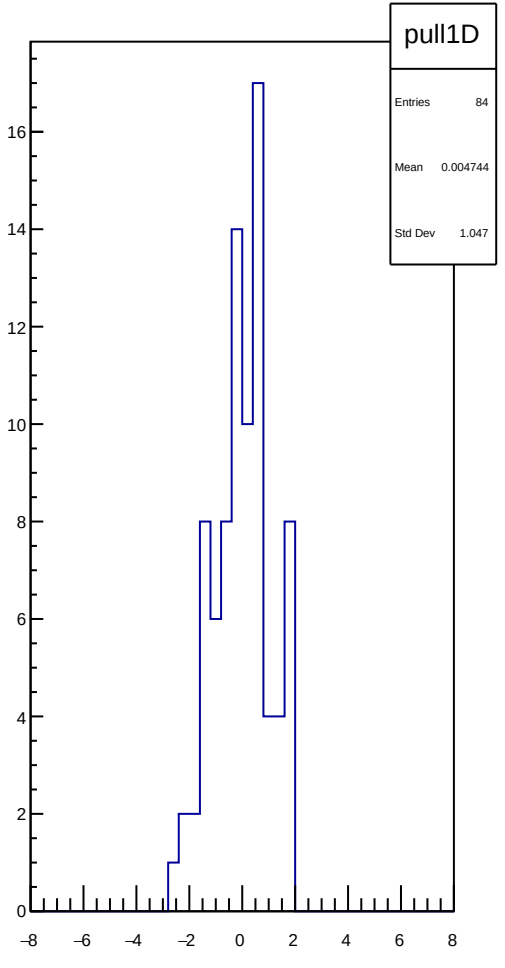

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 186.1 / 83
p0 1733 ± 1.356
1800
1780
1760
1740
1720
1700
1680

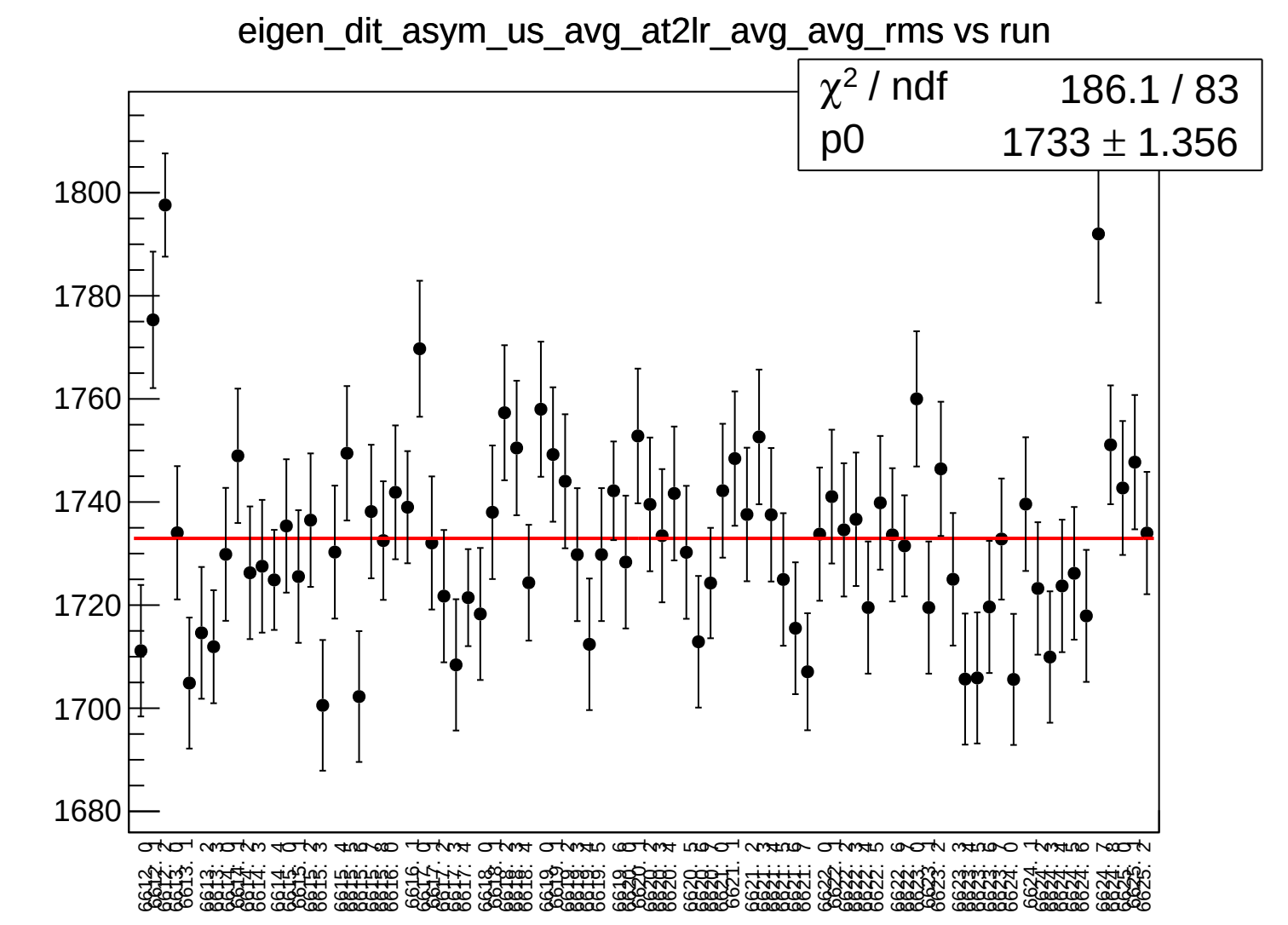

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 79.99 / 83
p0 440.5 ± 7201
200
100
0
−100
−200
pull
Entries 84
Mean 1.155e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

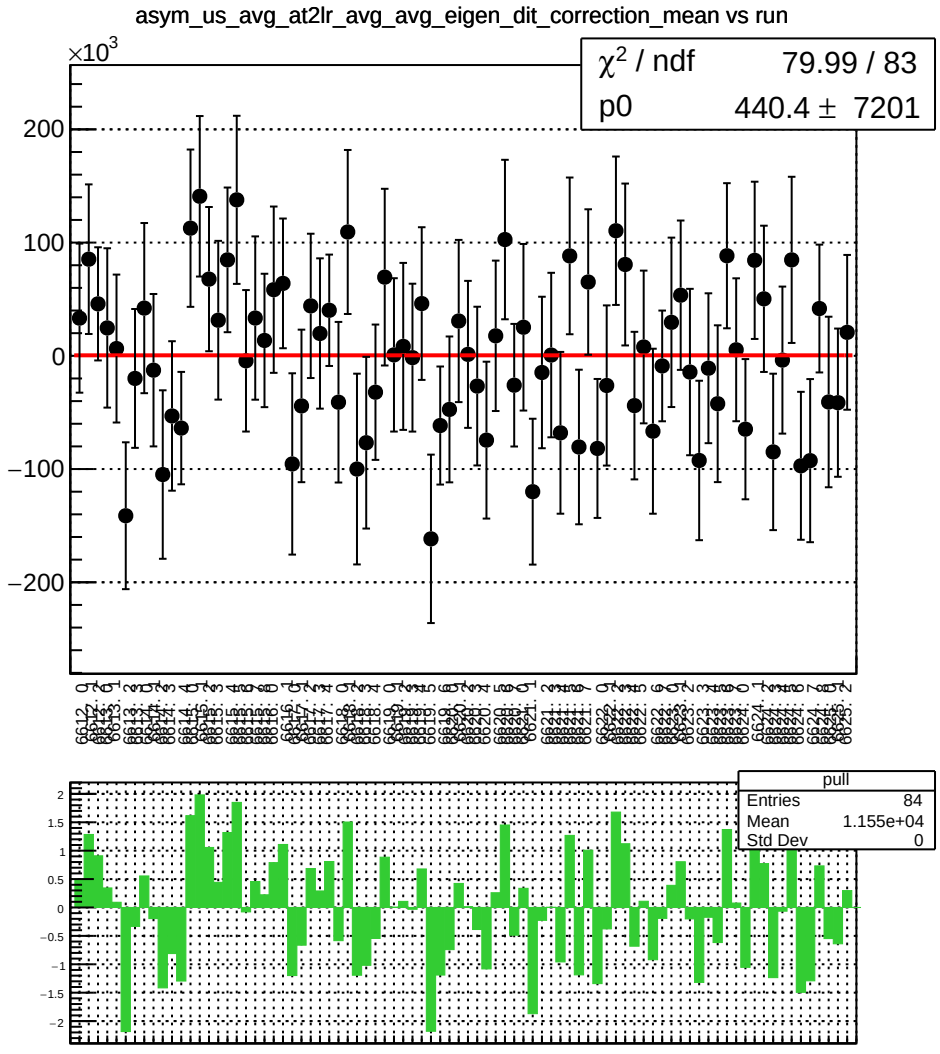

pull1D
Entries 84
Mean −0.0002878
Std Dev 0.9758
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

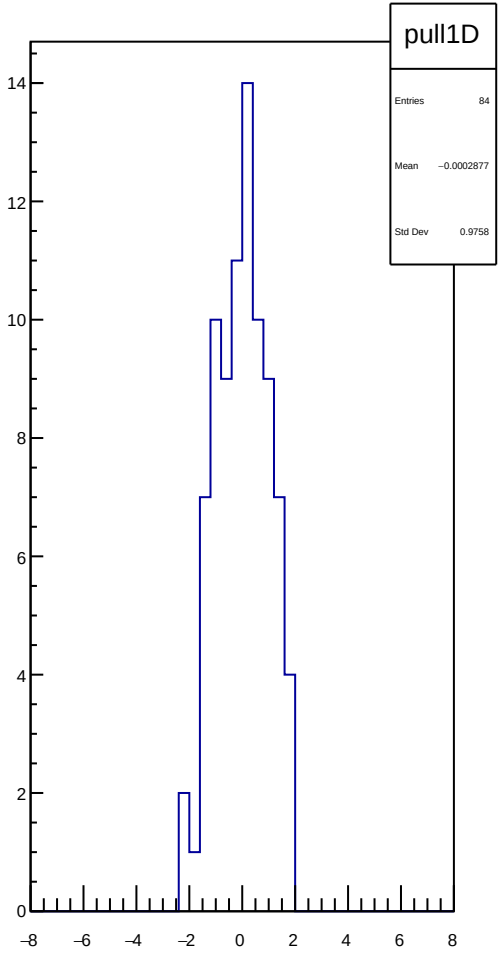

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 5635 / 83
p0 6495 ± 5.092
8000
7500
7000
6500
6000

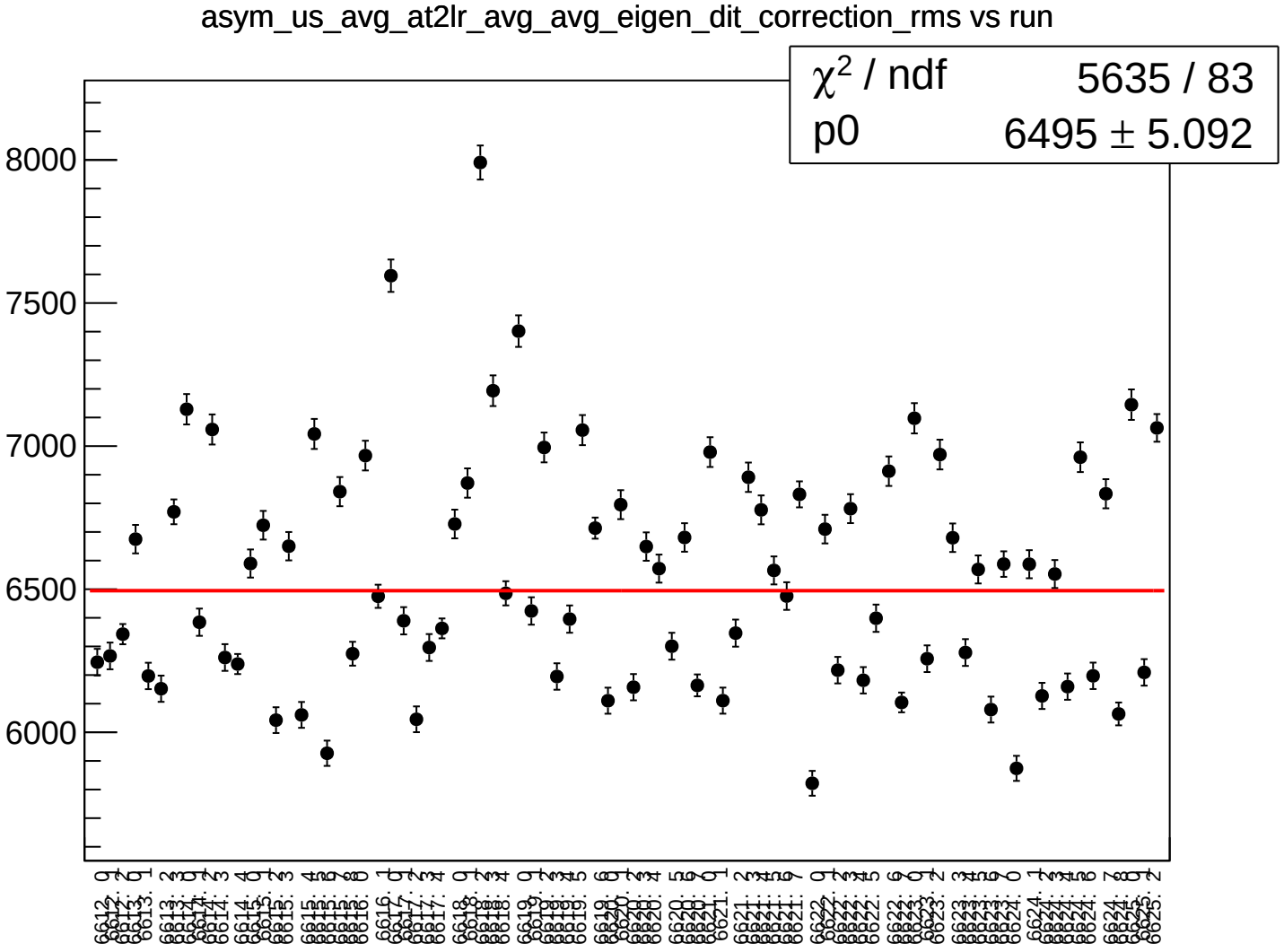

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 92 / 83
p0 2799 ± 1918
pull
Entries 84
Mean −122.2
Std Dev 0

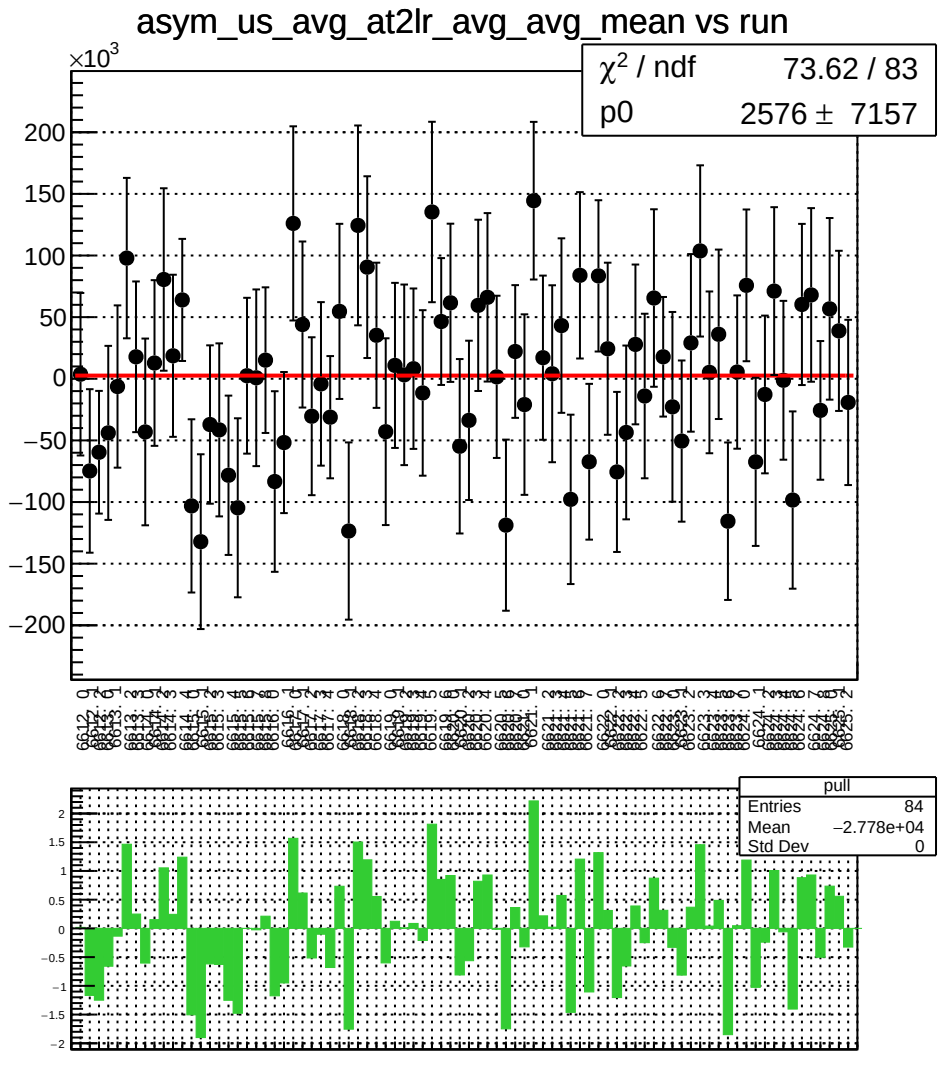

pull1D
Entries 84
Mean 0.004744
Std Dev 1.047

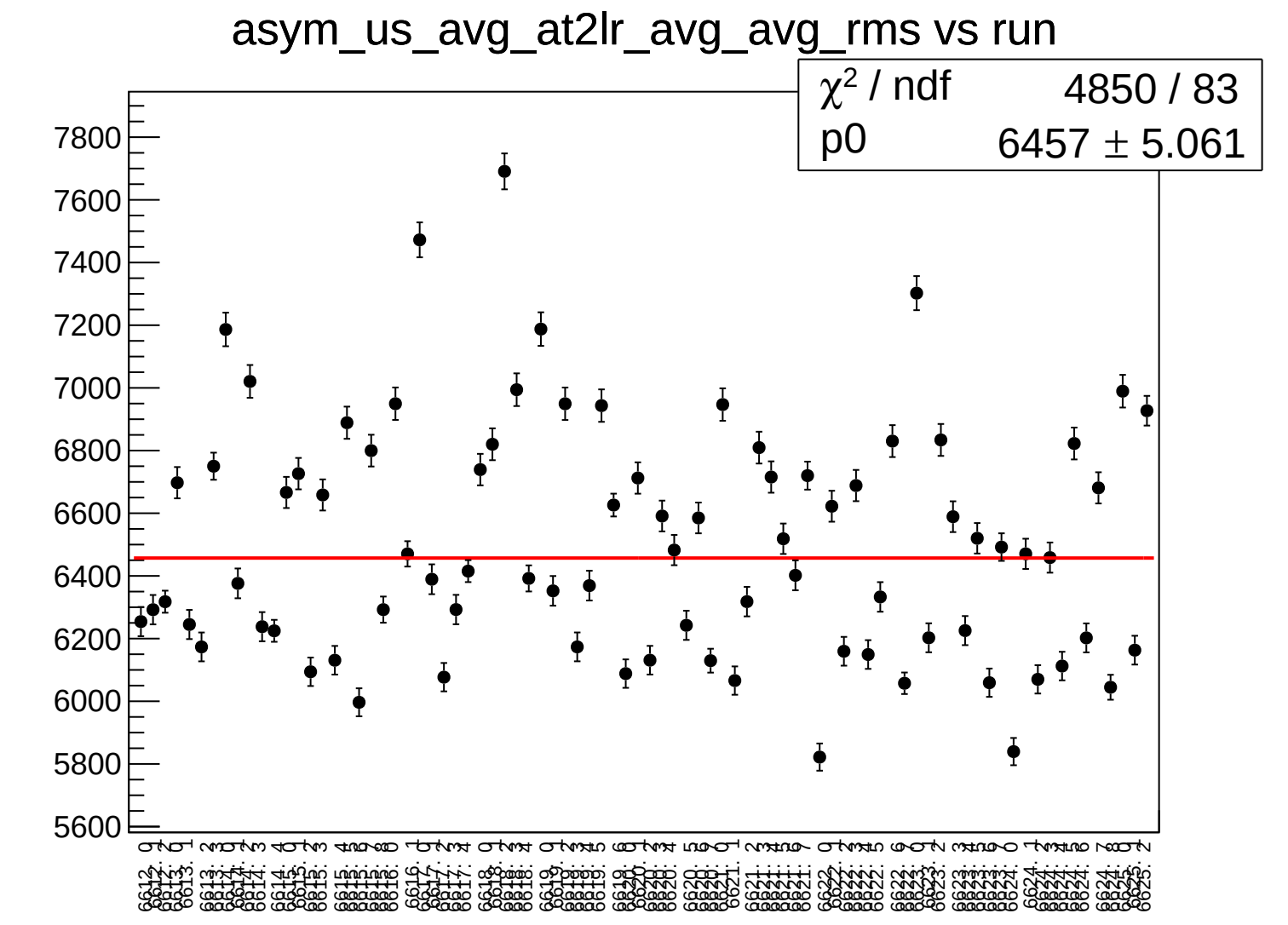

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 186.1 / 83
p0 1733 ± 1.356
1800
1780
1760
1740
1720
1700
1680

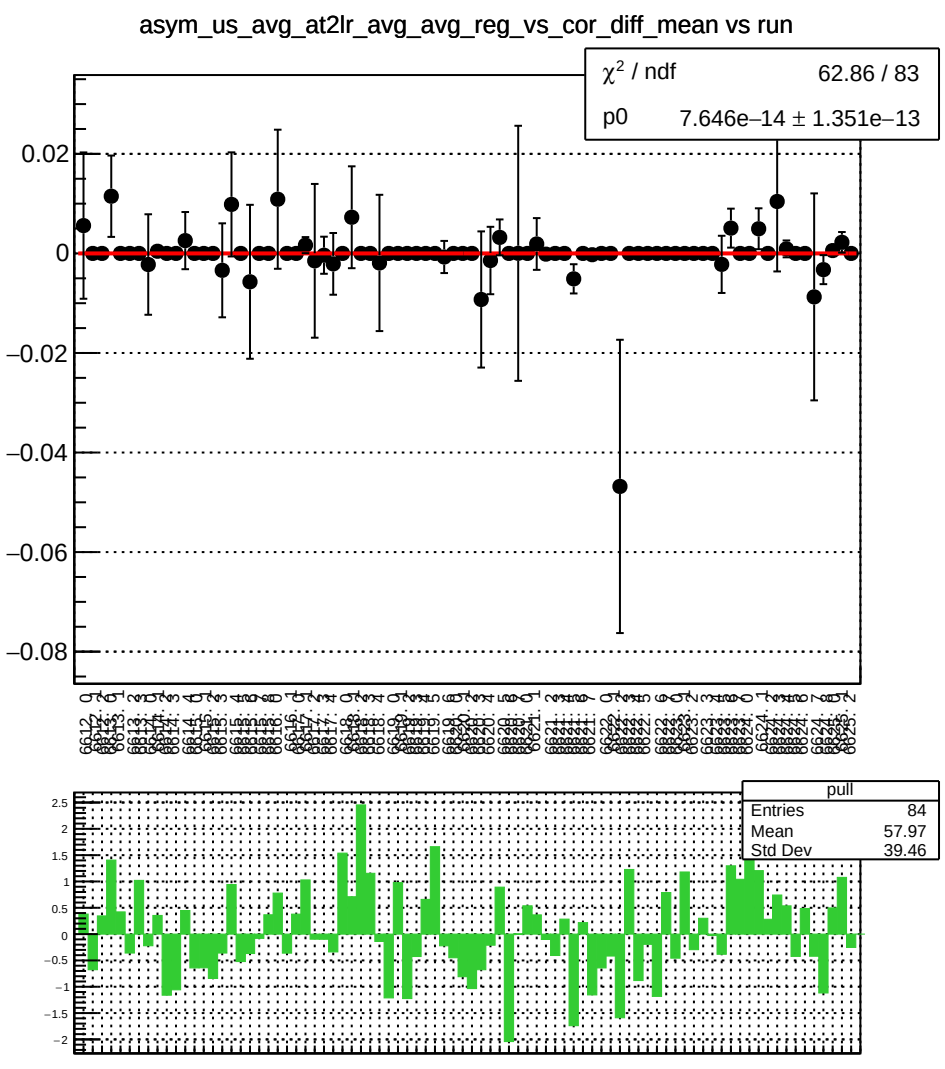

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 79.99 / 83
p0 440.4 ± 7201
200
100
0
−100
−200
pull
Entries 84
Mean 1.155e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

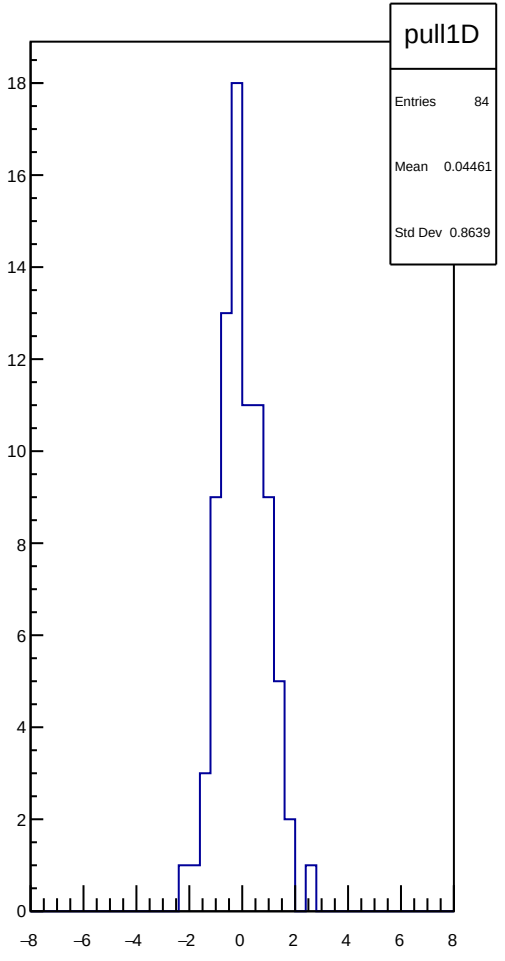

pull1D
Entries 84
Mean −0.0002877
Std Dev 0.9758
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

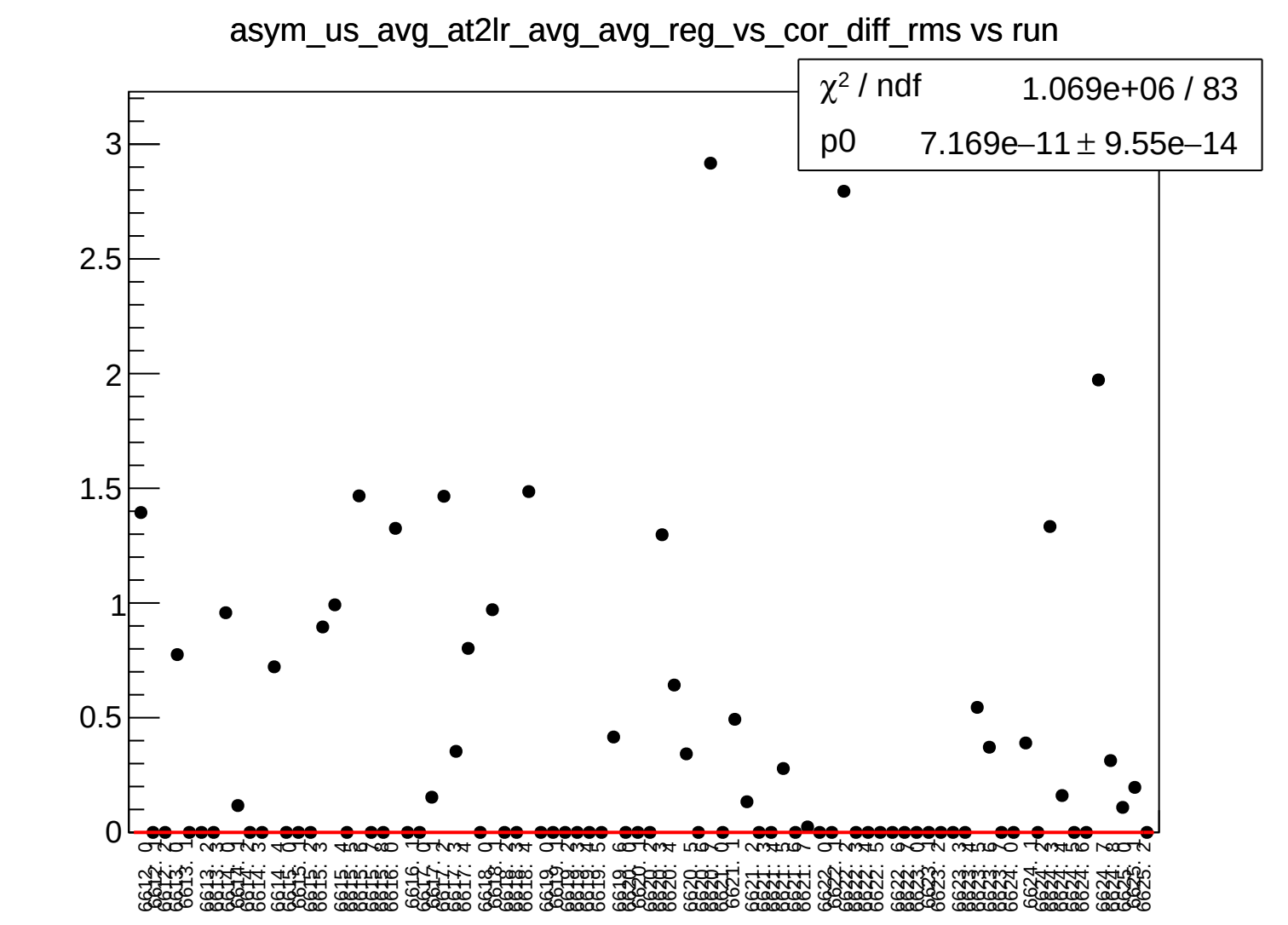

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5635 / 83
p0 6495 ± 5.092
8000
7500
7000
6500
6000

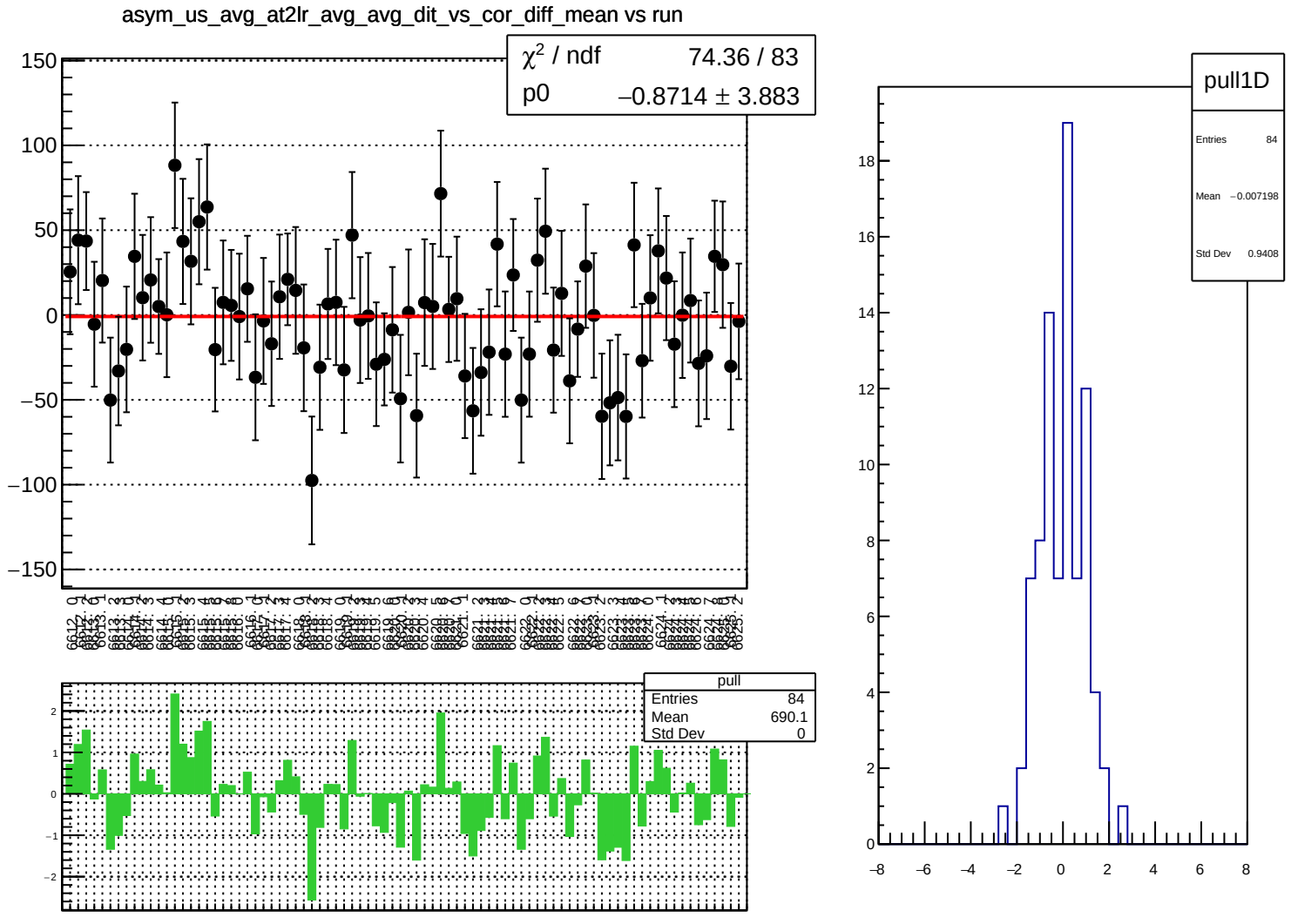

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 73.62 / 83
p0 2576 ± 7157
pull
Entries 84
Mean −2.778e+04
Std Dev 0
pull1D
Entries 84
Mean −0.0001116
Std Dev 0.9362

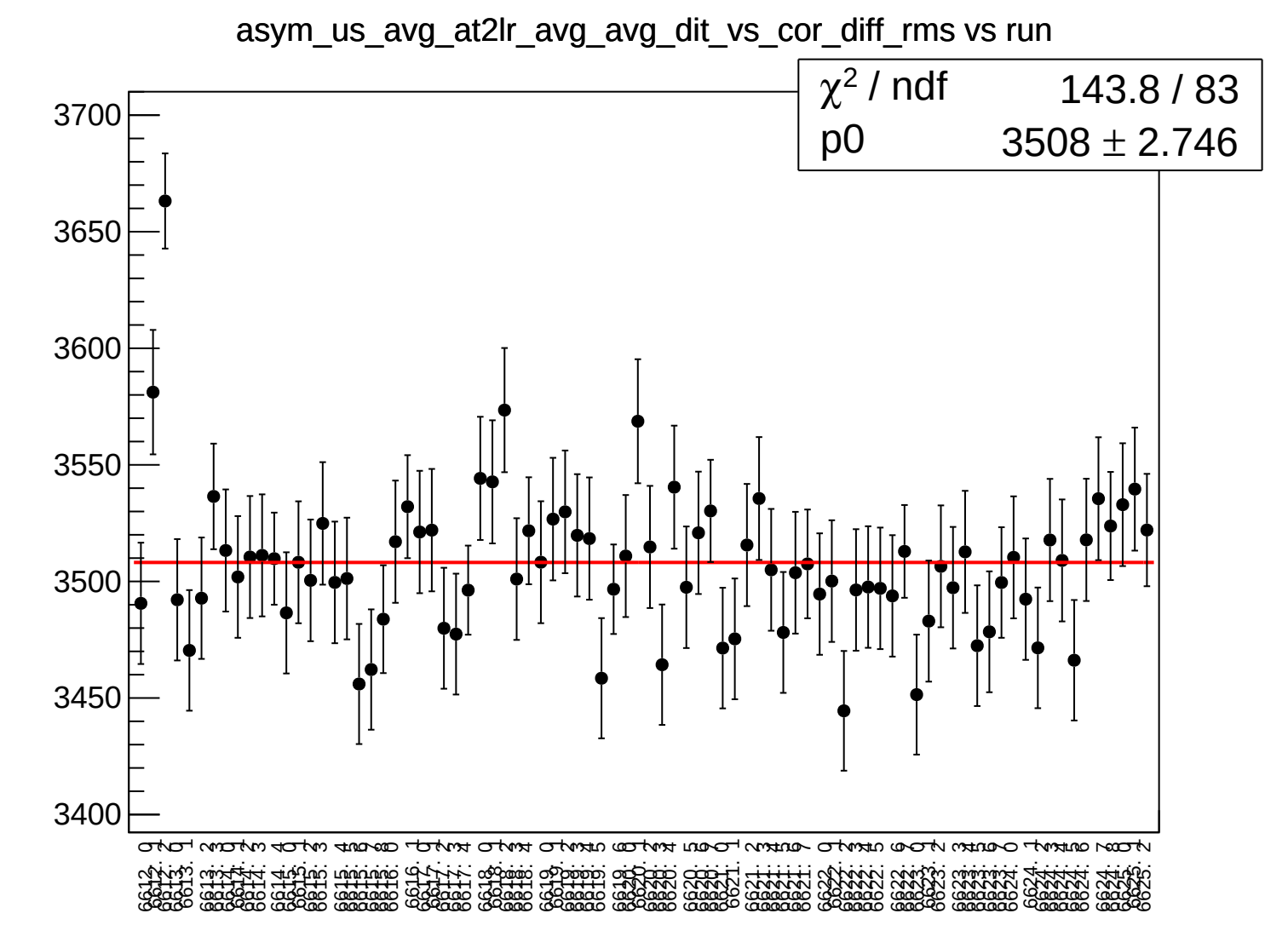

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 4850 / 83
p0 6457 ± 5.061
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

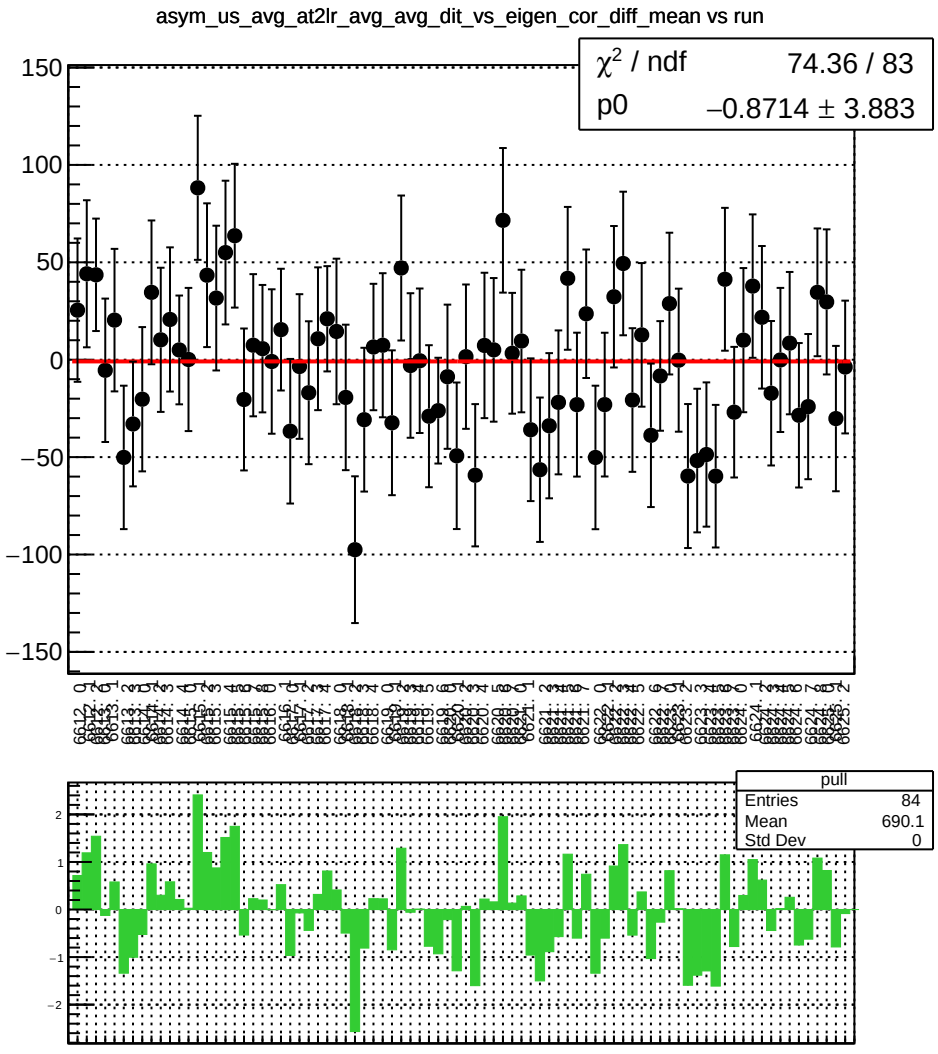

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 62.86 / 83
p0 7.646e−14 ± 1.351e−13
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 84
Mean 57.97
Std Dev 39.46
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

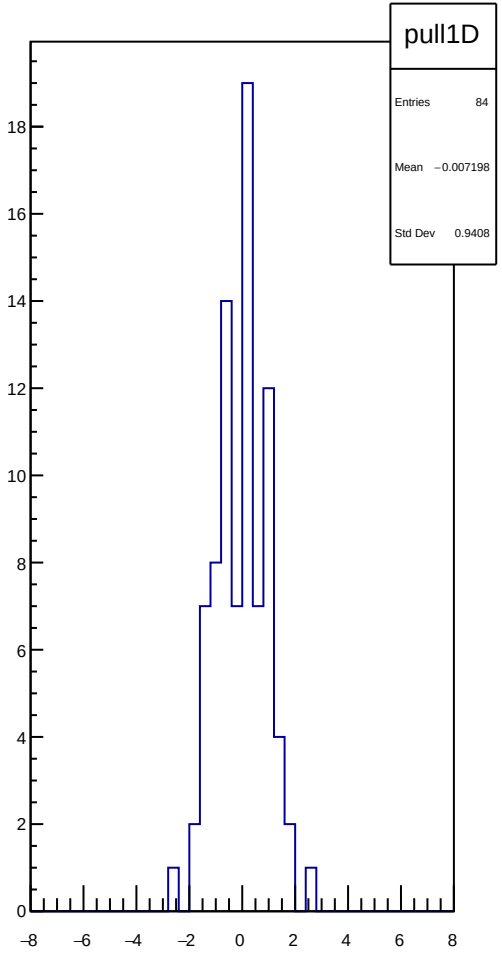

pull1D
Entries 84
Mean 0.04461
Std Dev 0.8639
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

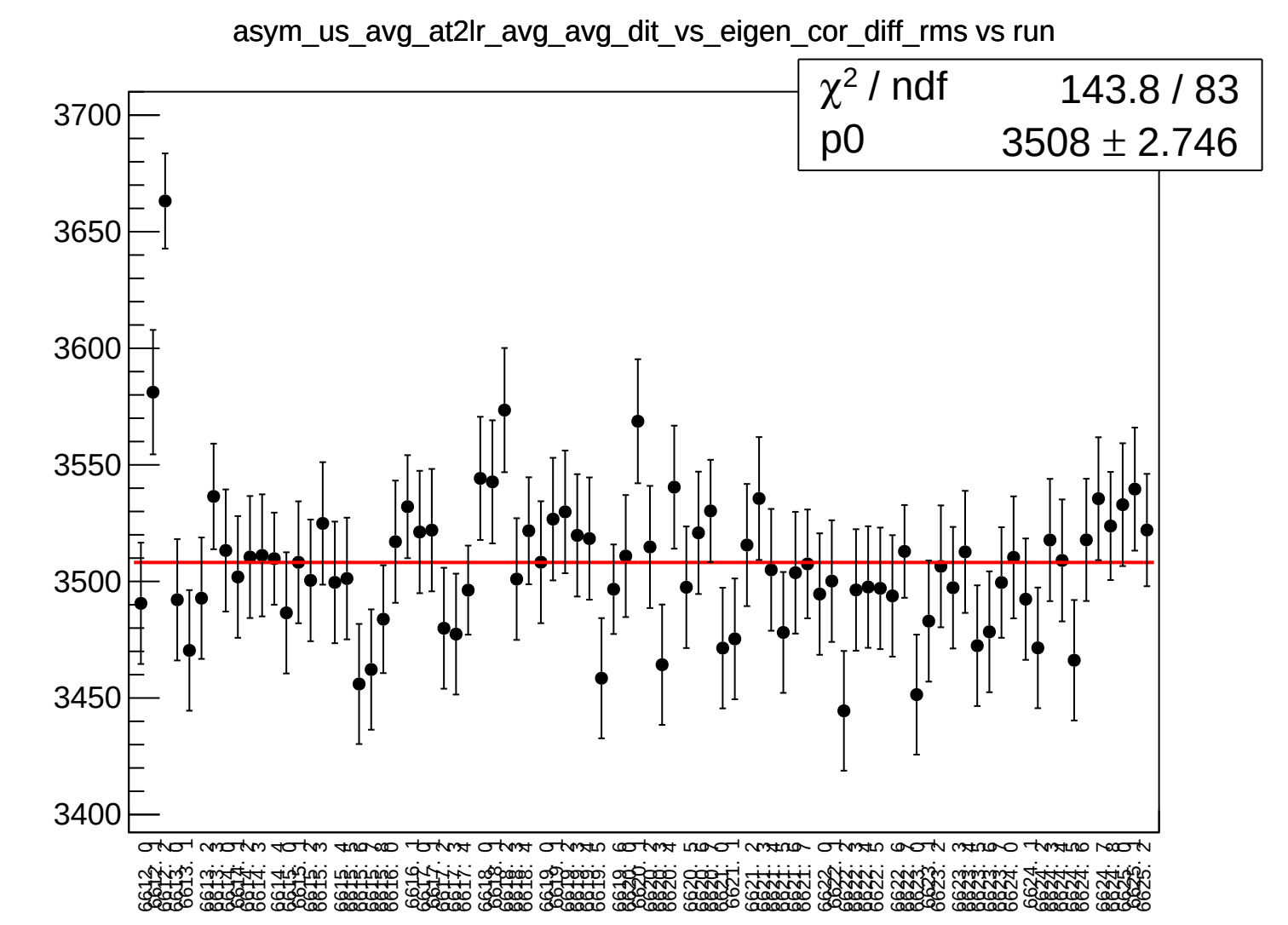

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.069e+06 / 83
p0 7.169e−11 ± 9.55e−14
3
2.5
2
1.5
1
0.5
0

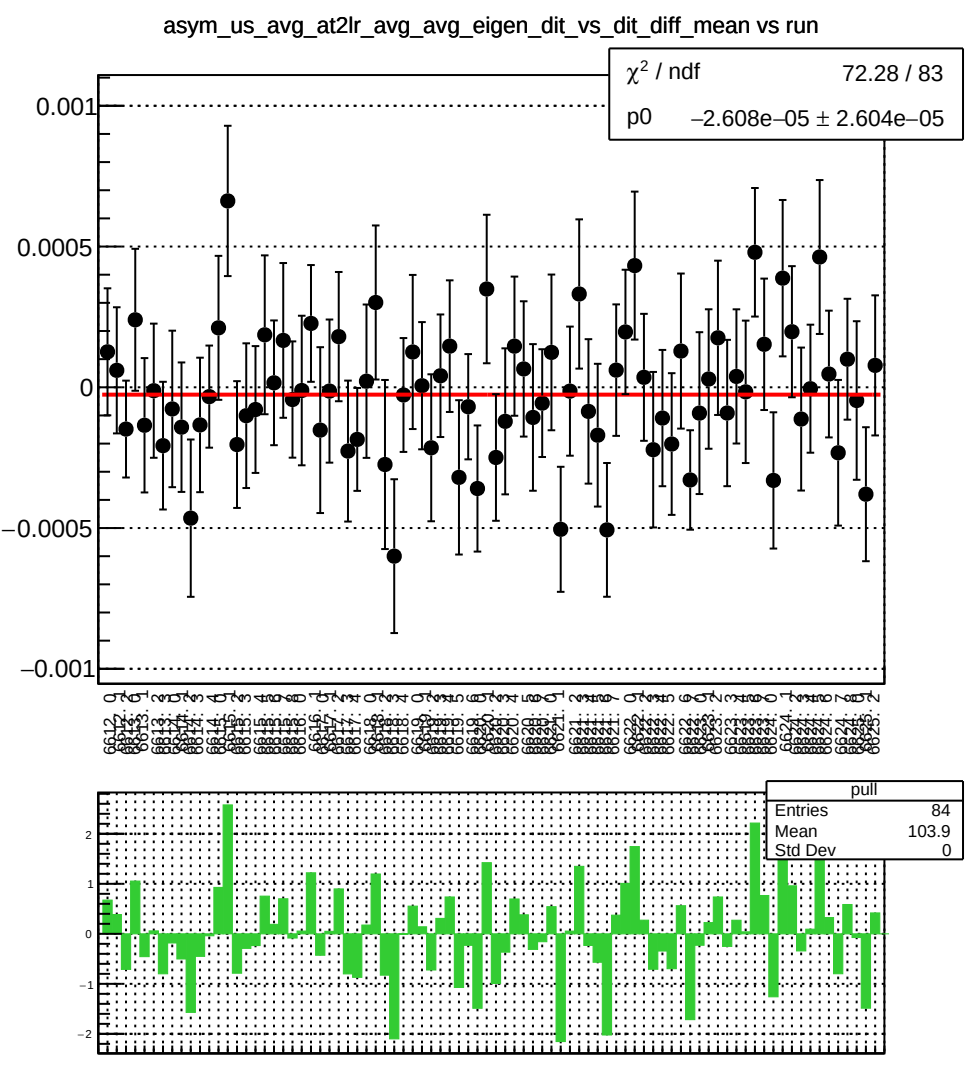

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.36 / 83
p0 −0.8714 ± 3.883
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 690.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.007198
Std Dev 0.9408
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

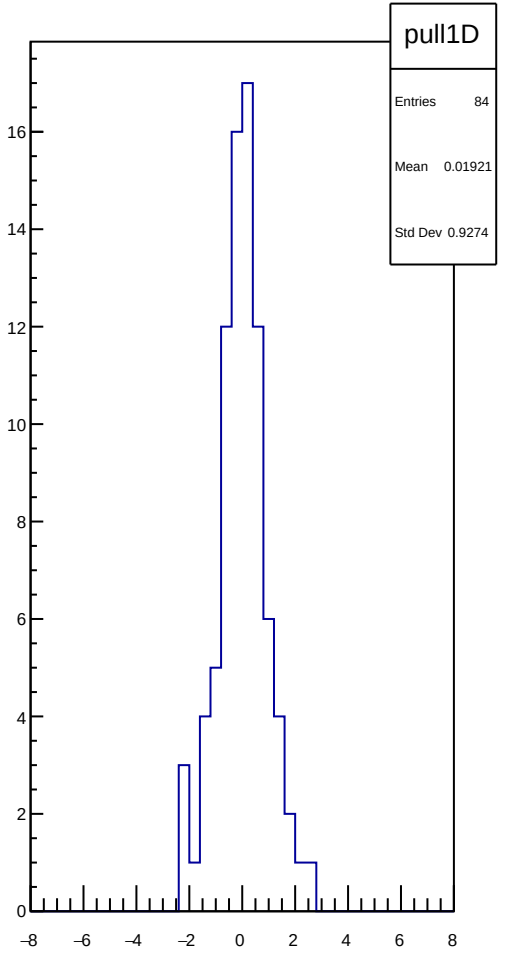

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 143.8 / 83
p0 3508 ± 2.746
3700
3650
3600
3550
3500
3450
3400

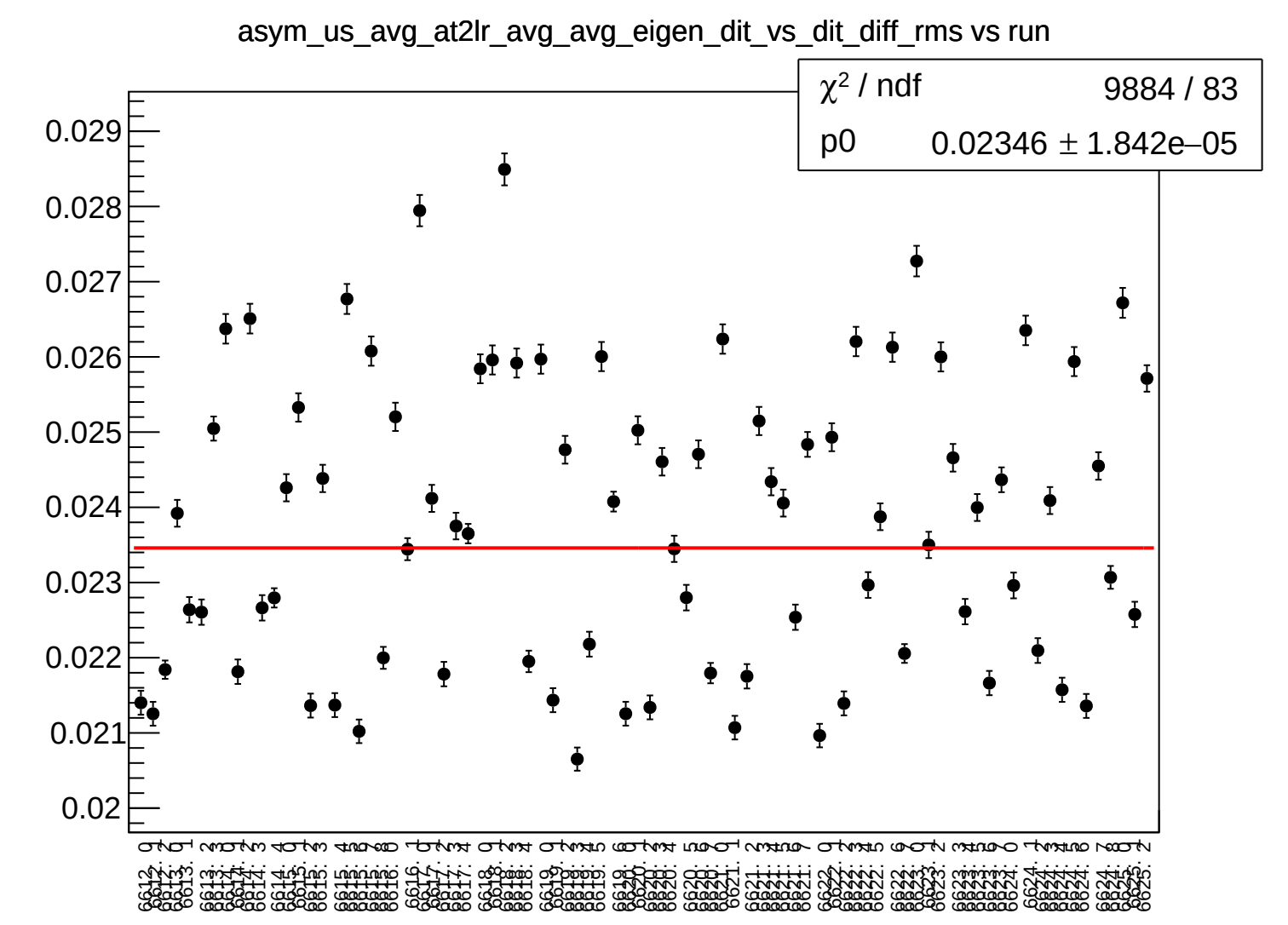

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.36 / 83
p0 −0.8714 ± 3.883
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 690.1
Std Dev 0
2
1
0
−1
−2

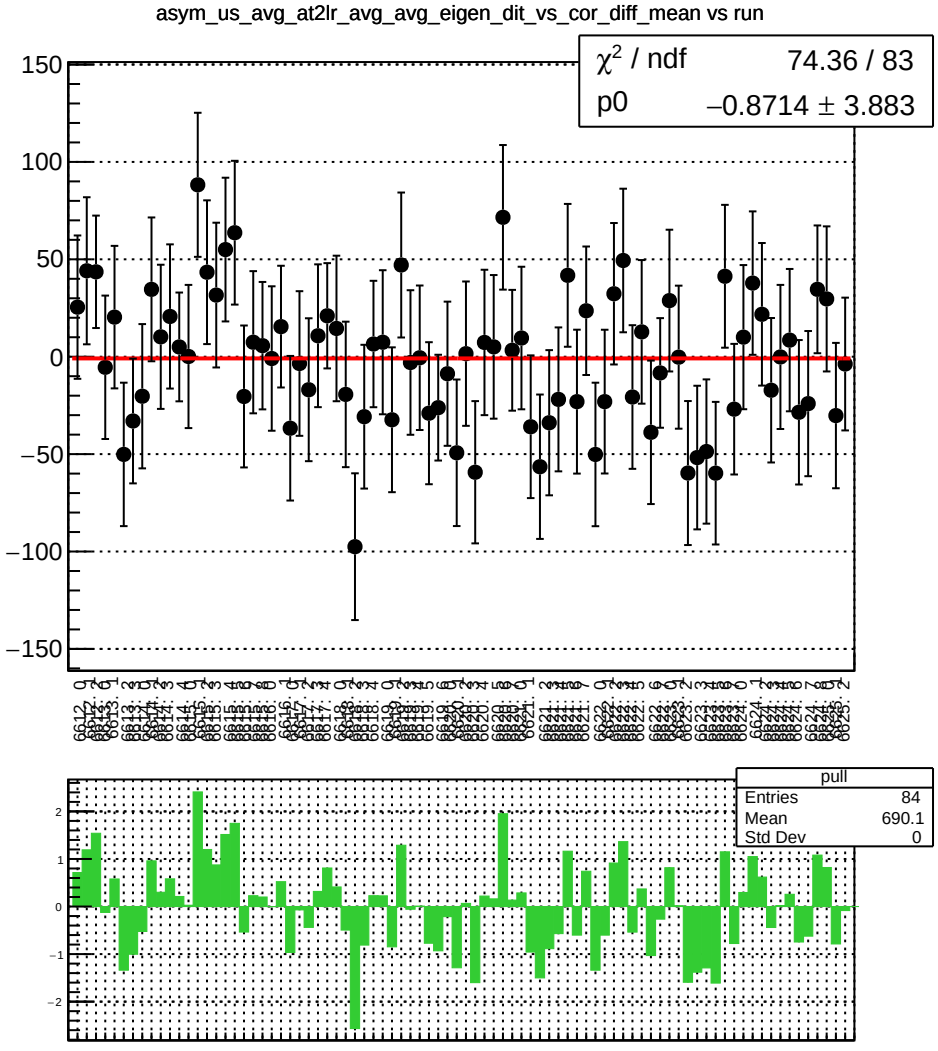

pull1D
Entries 84
Mean −0.007198
Std Dev 0.9408
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

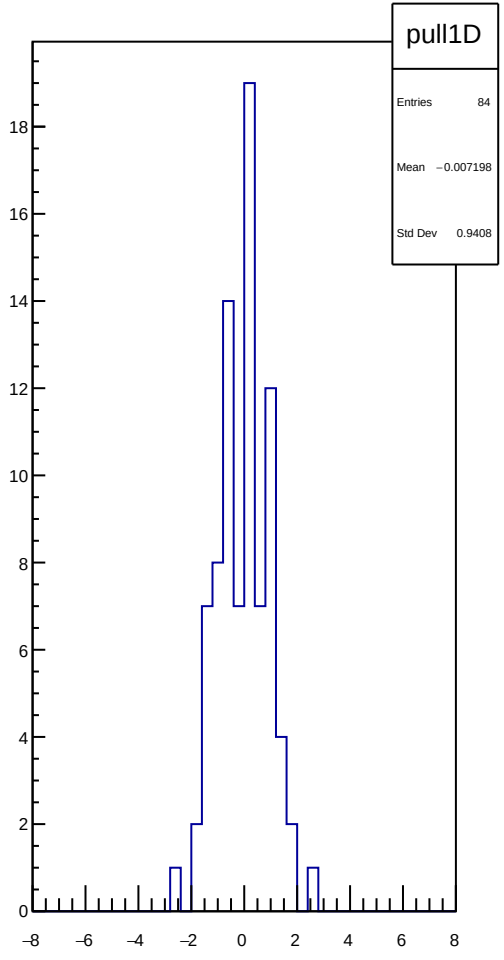

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 143.8 / 83
p0 3508 ± 2.746
3700
3650
3600
3550
3500
3450
3400

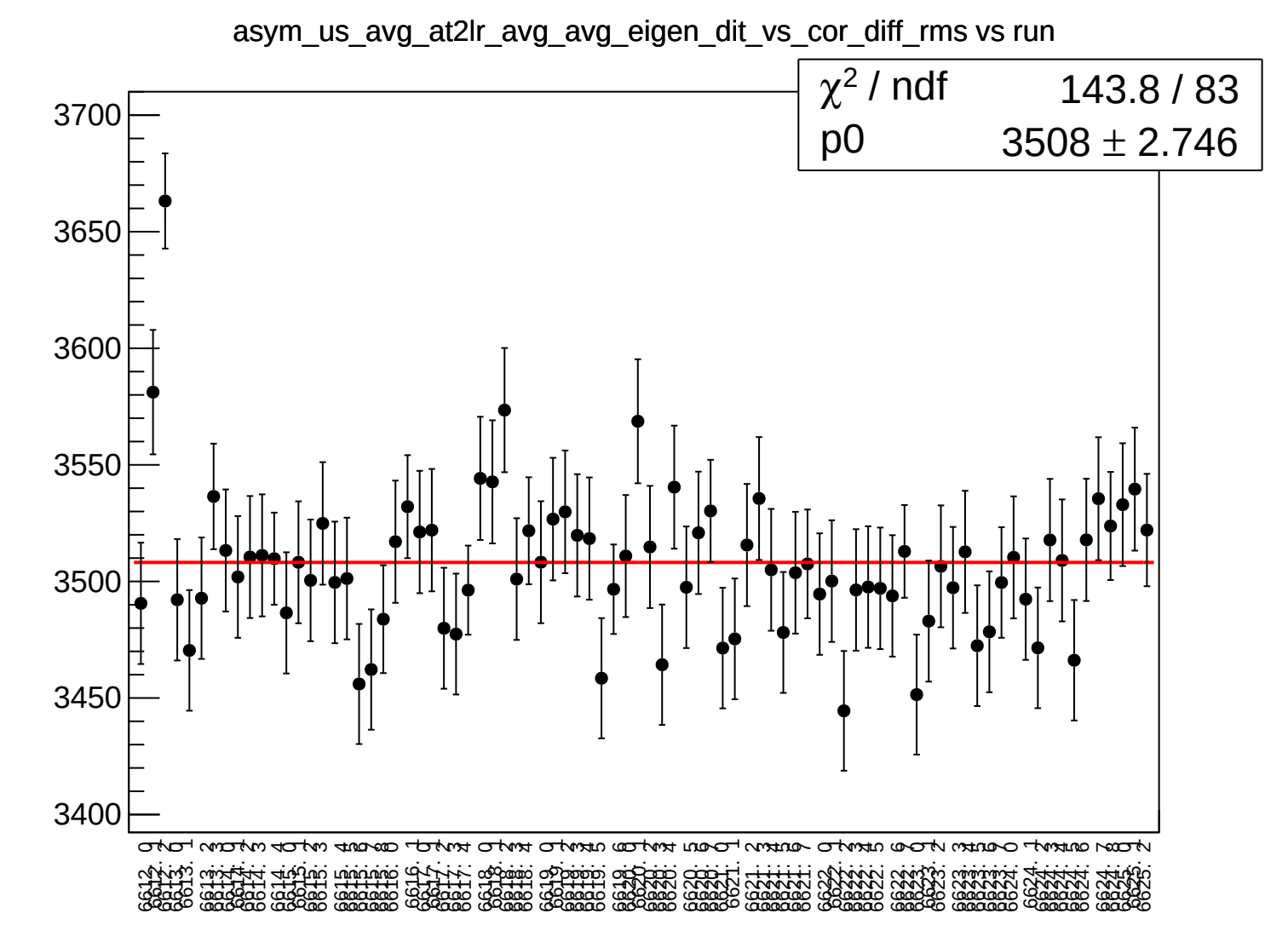

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 72.28 / 83
p0 −2.608e−05 ± 2.604e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 84
Mean 103.9
Std Dev 0

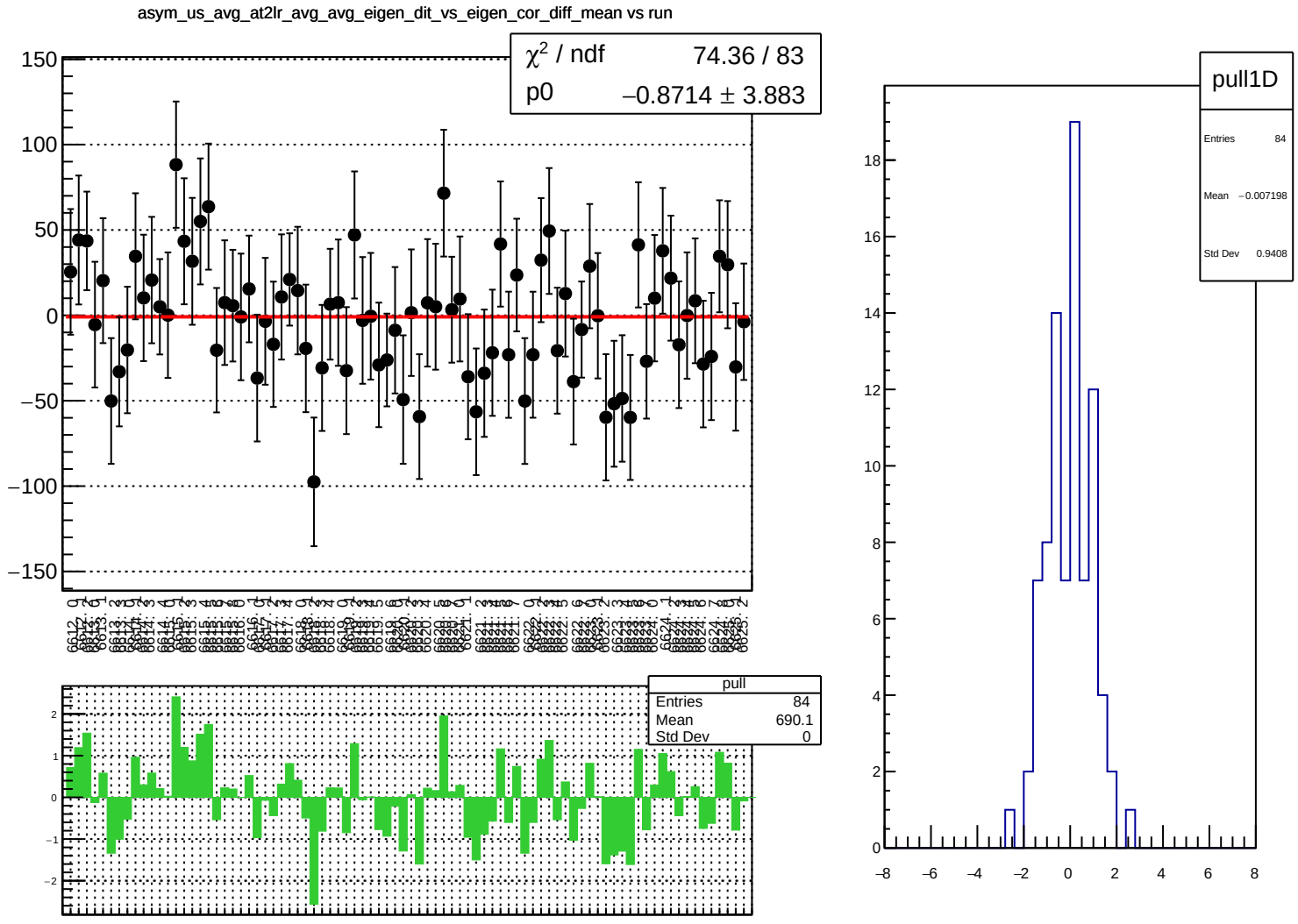

pull1D
Entries 84
Mean 0.01921
Std Dev 0.9274

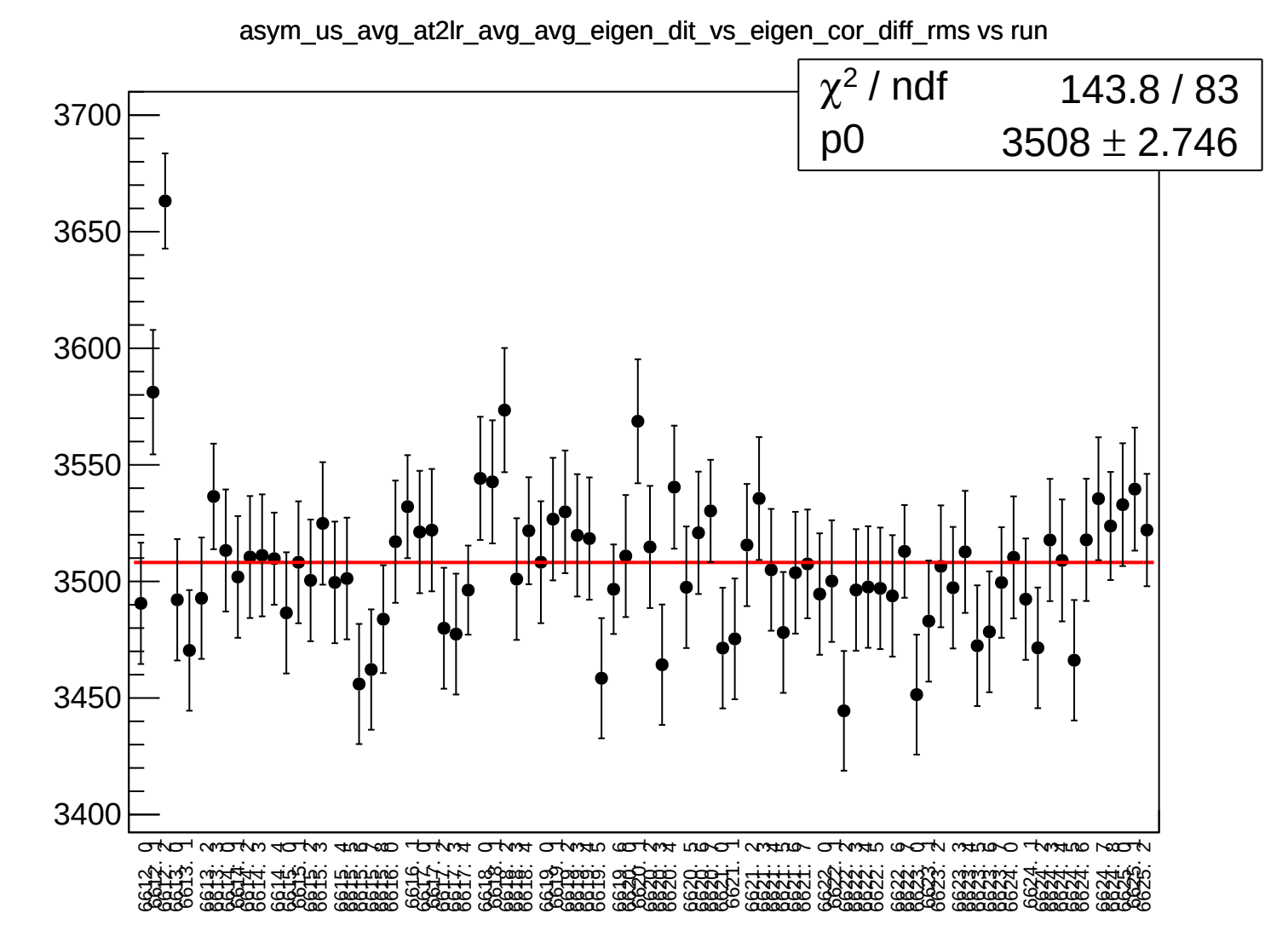

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9884 / 83
p0 0.02346 ± 1.842e−05
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.02

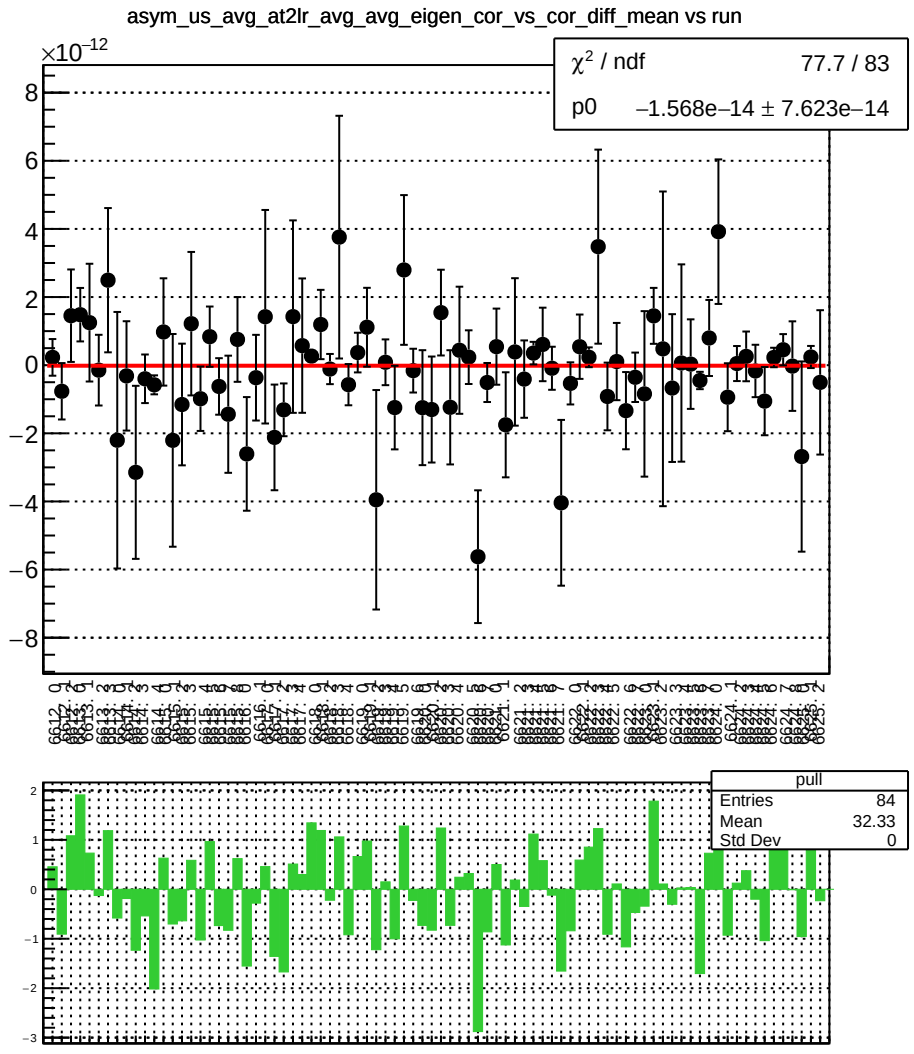

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.36 / 83
p0 −0.8714 ± 3.883
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 690.1
Std Dev 0
2
1
0
−1
−2

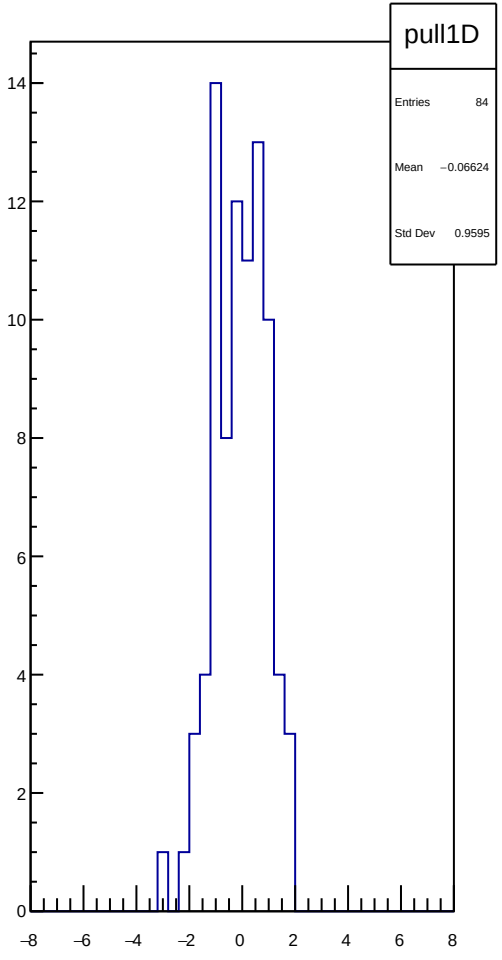

pull1D
Entries 84
Mean −0.007198
Std Dev 0.9408
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

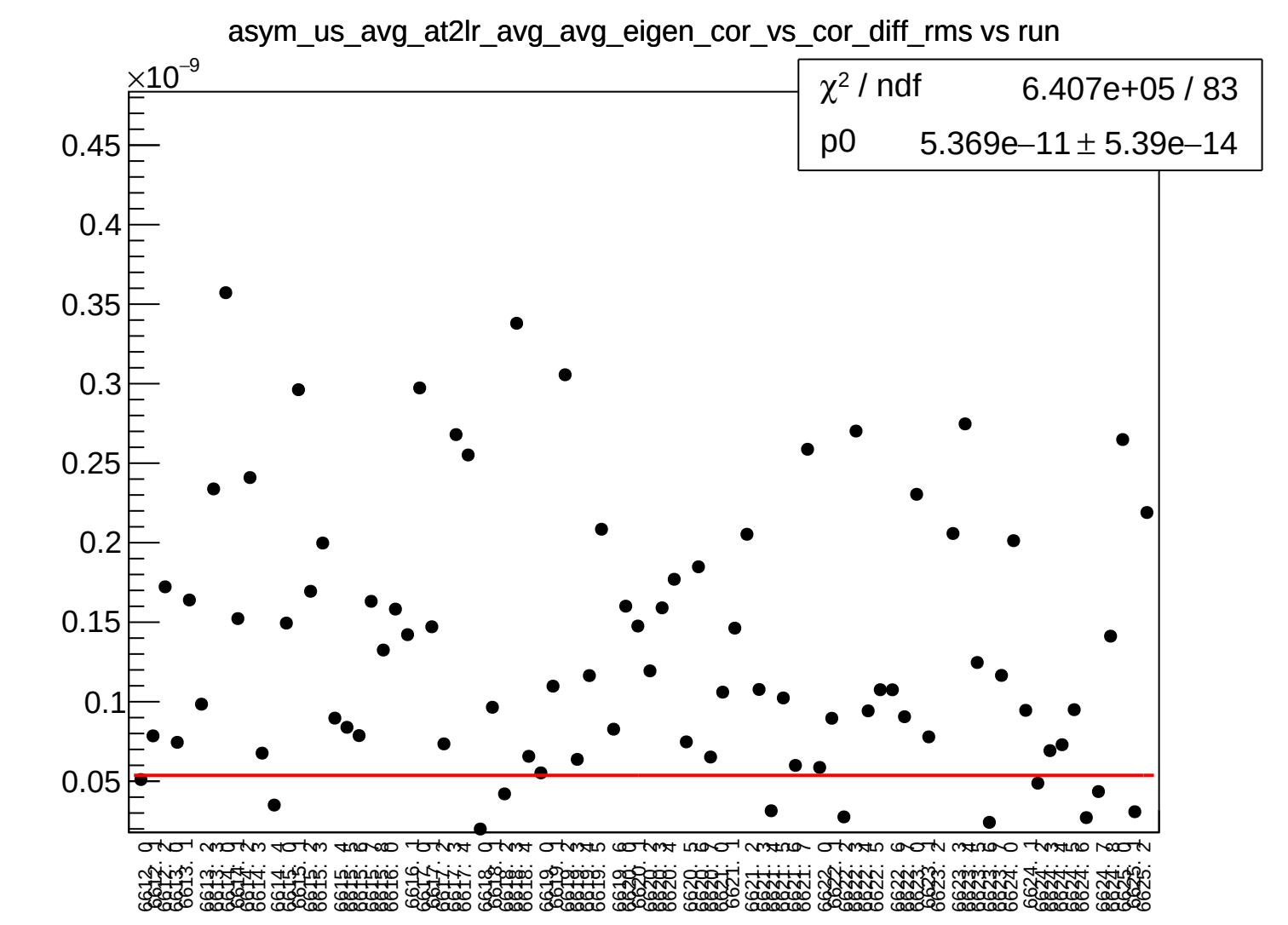

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 143.8 / 83
p0 3508 ± 2.746
3700
3650
3600
3550
3500
3450
3400

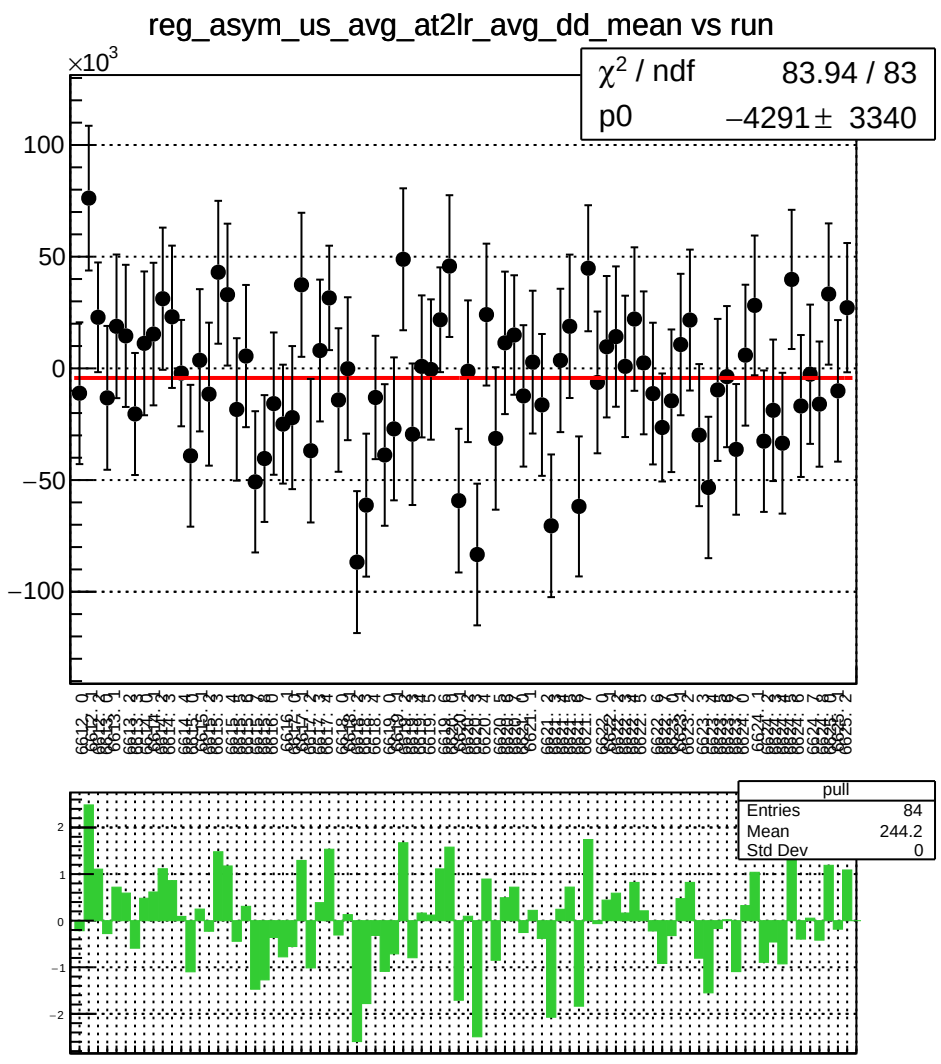

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.36 / 83
p0 −0.8714 ± 3.883
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 690.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.007198
Std Dev 0.9408
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

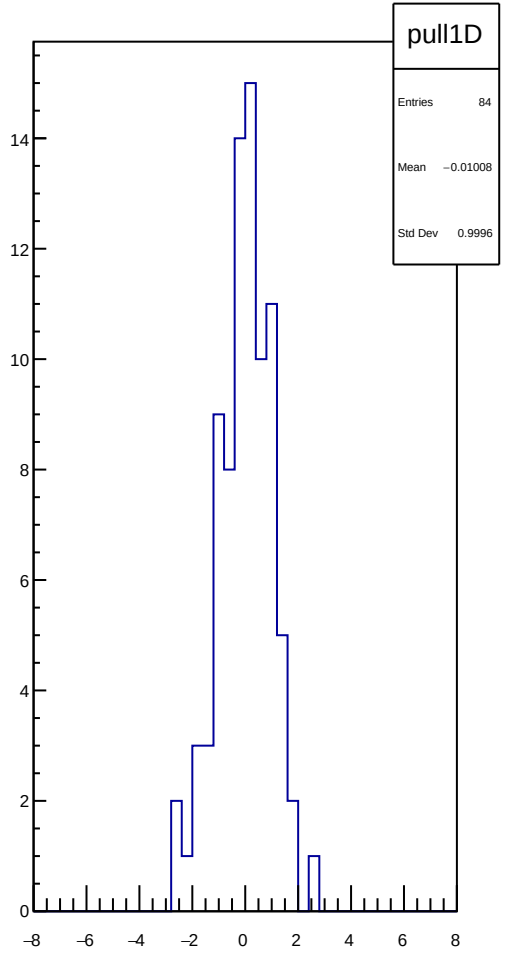

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 143.8 / 83
p0 3508 ± 2.746
3700
3650
3600
3550
3500
3450
3400

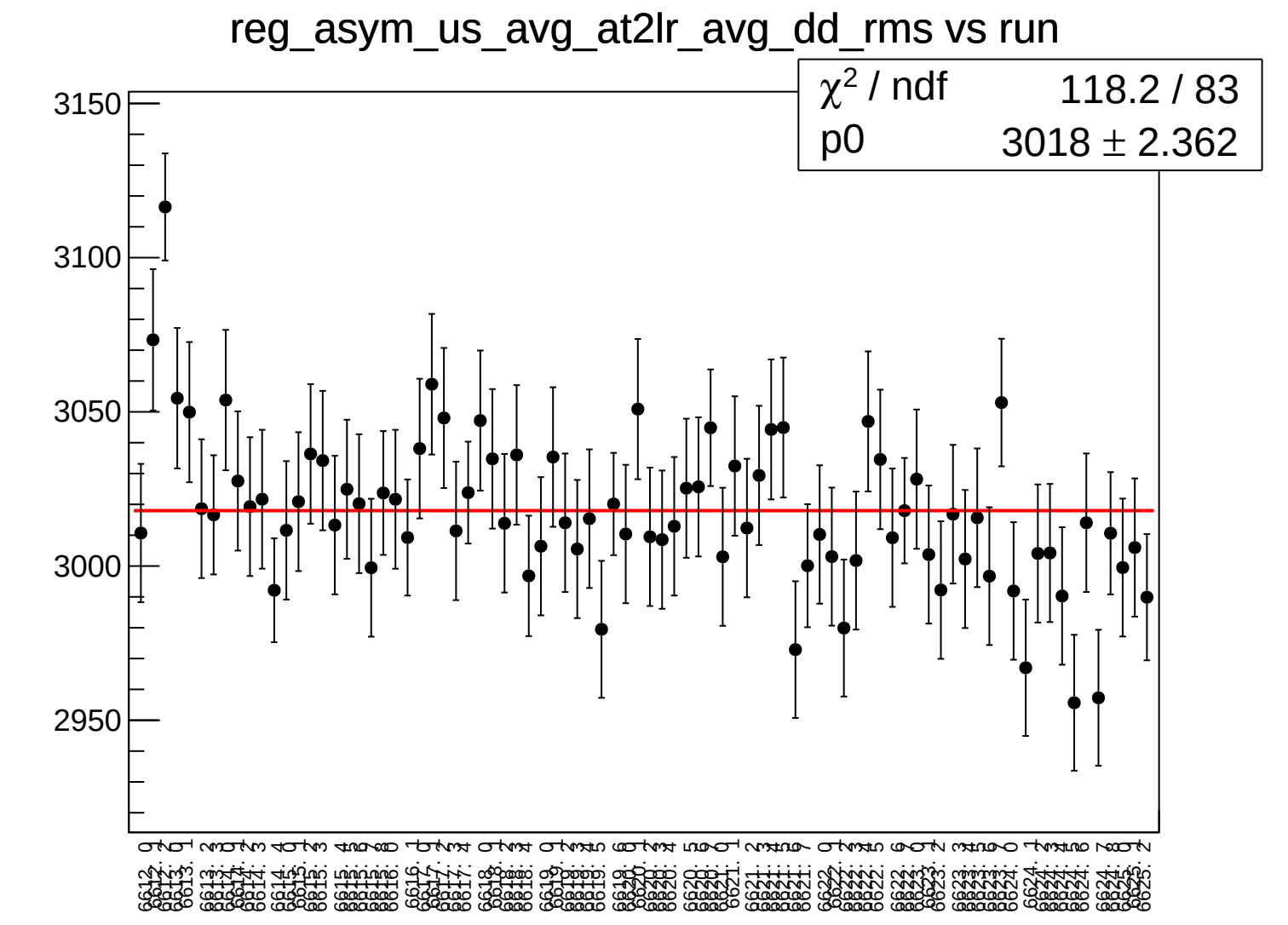

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.7 / 83
p0 −1.568e−14 ± 7.623e−14
pull
Entries 84
Mean 32.33
Std Dev 0

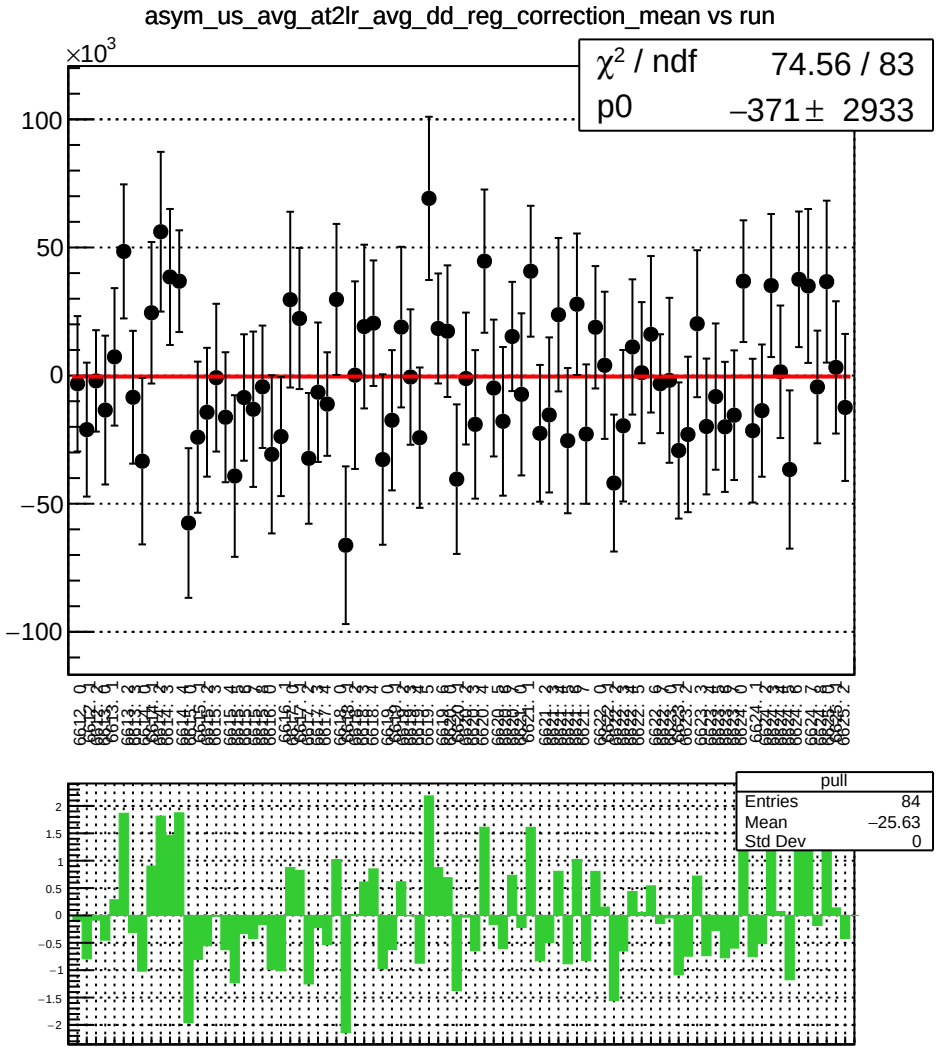

pull1D
Entries 84
Mean −0.06624
Std Dev 0.9595

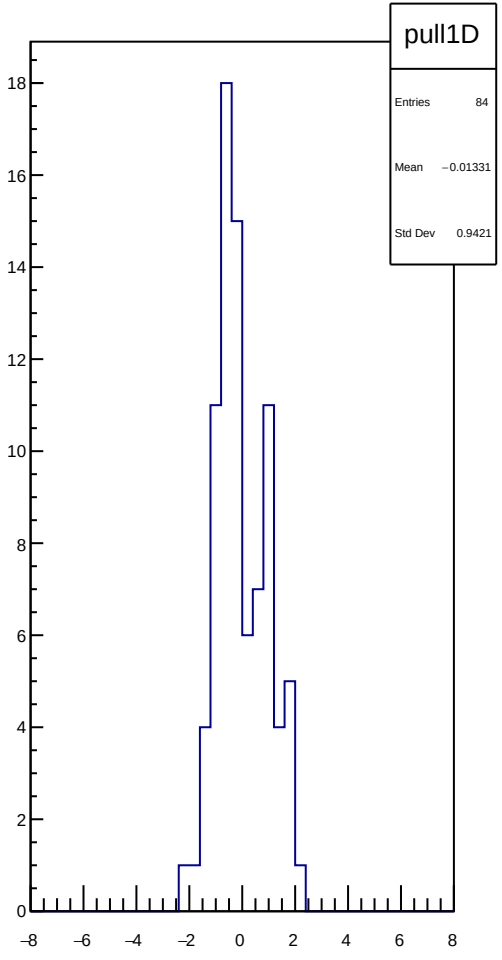

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.407e+05 / 83
p0 5.369e−11 ± 5.39e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

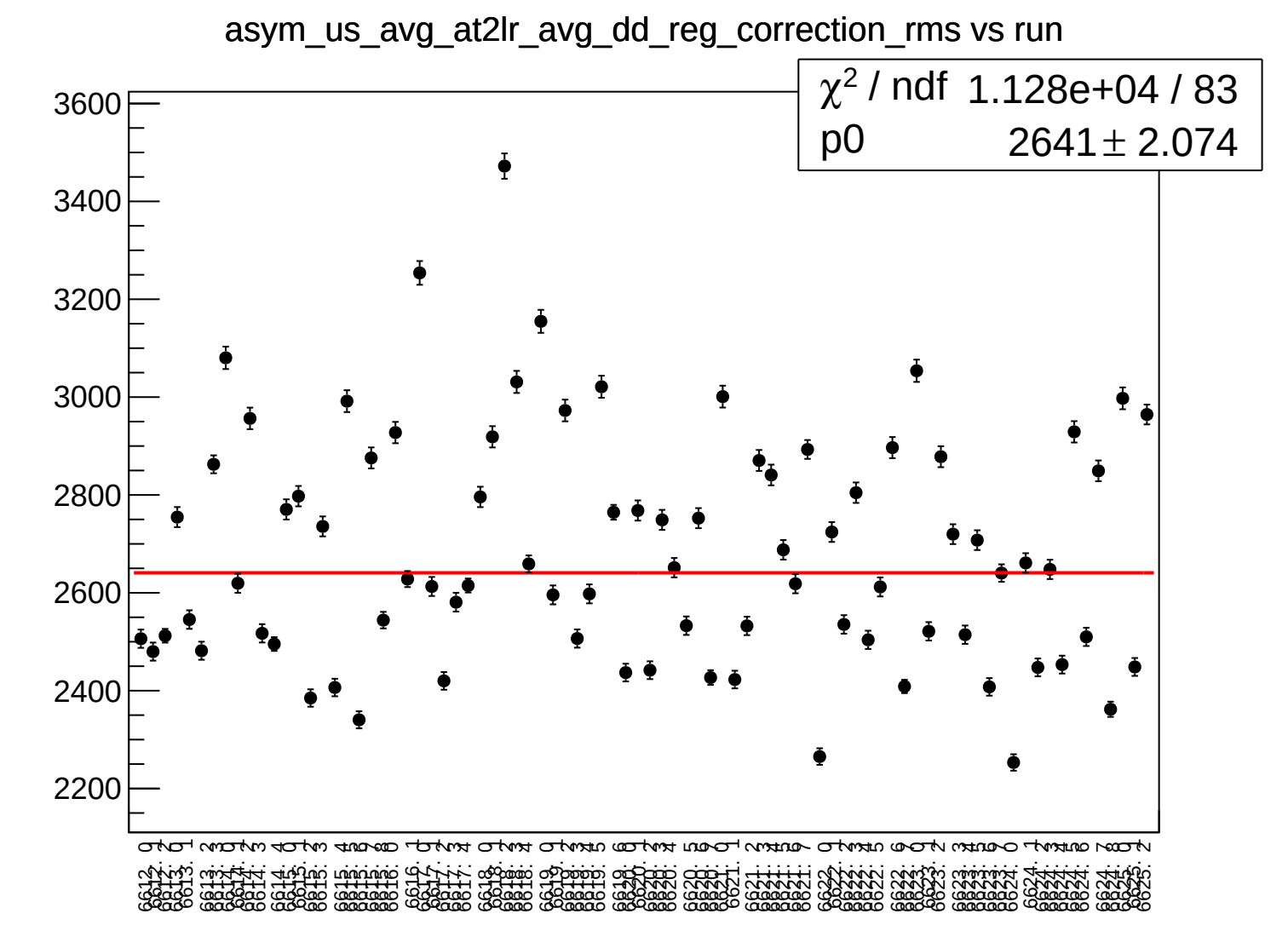

reg_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 83.94 / 83
p0 −4291 ± 3340
100
50
0
−50
−100
pull
Entries 84
Mean 244.2
Std Dev 0
2
1
0
−1
−2

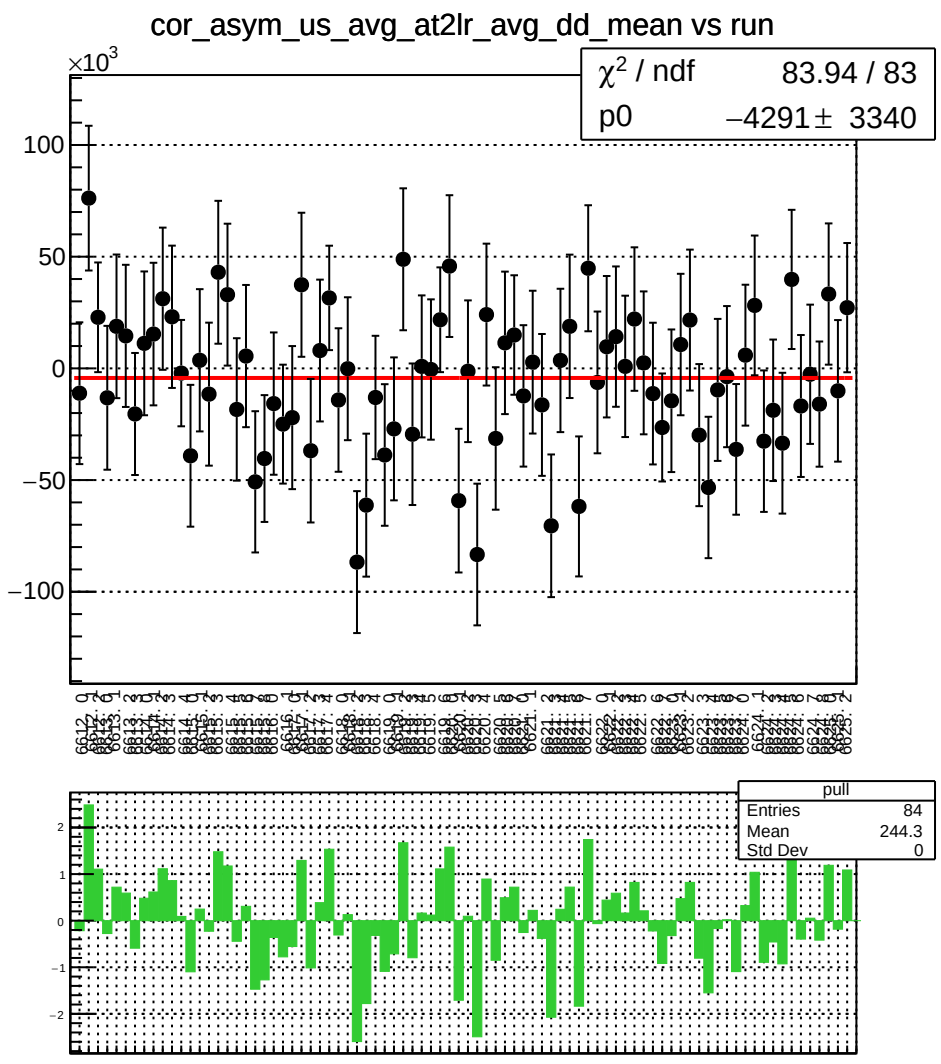

pull1D
Entries 84
Mean −0.01008
Std Dev 0.9996
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

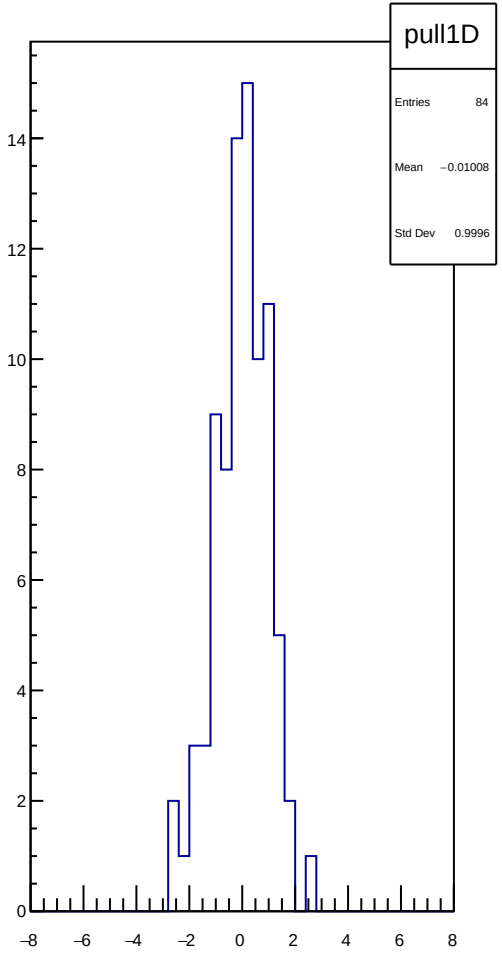

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 118.2 / 83
p0 3018 ± 2.362
3150
3100
3050
3000
2950

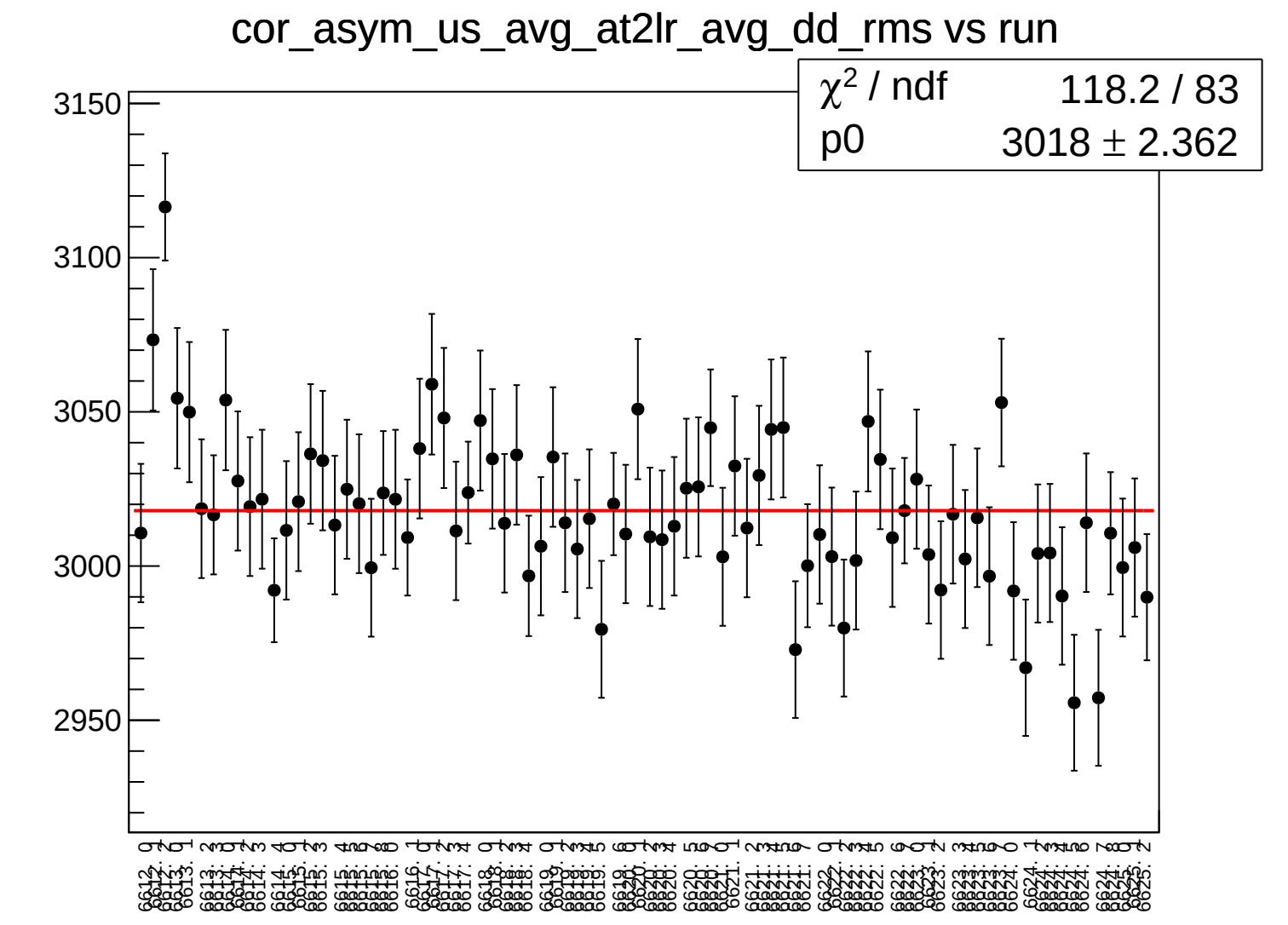

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 74.56 / 83
p0 −371 ± 2933
100
50
0
−50
−100
pull
Entries 84
Mean −25.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

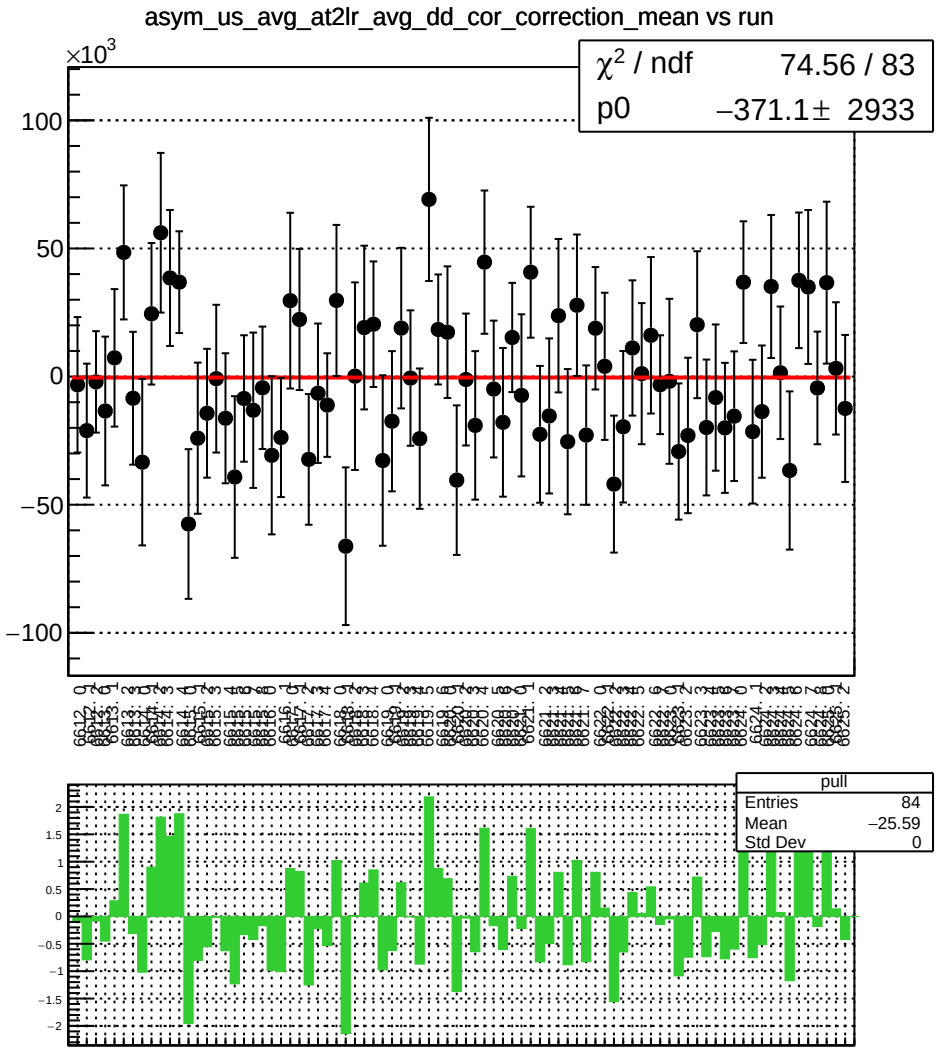

pull1D
Entries 84
Mean −0.01331
Std Dev 0.9421
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

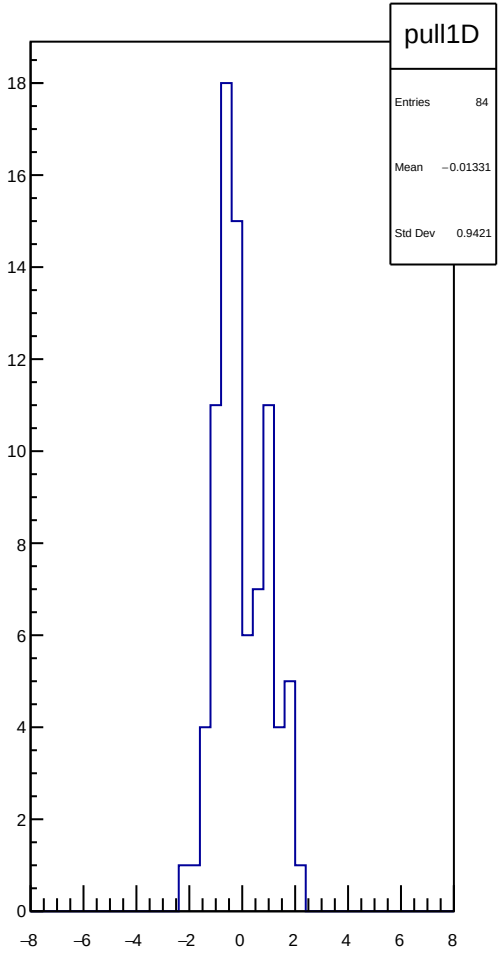

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.128e+04 / 83
p0 2641 ± 2.074
3600
3400
3200
3000
2800
2600
2400
2200

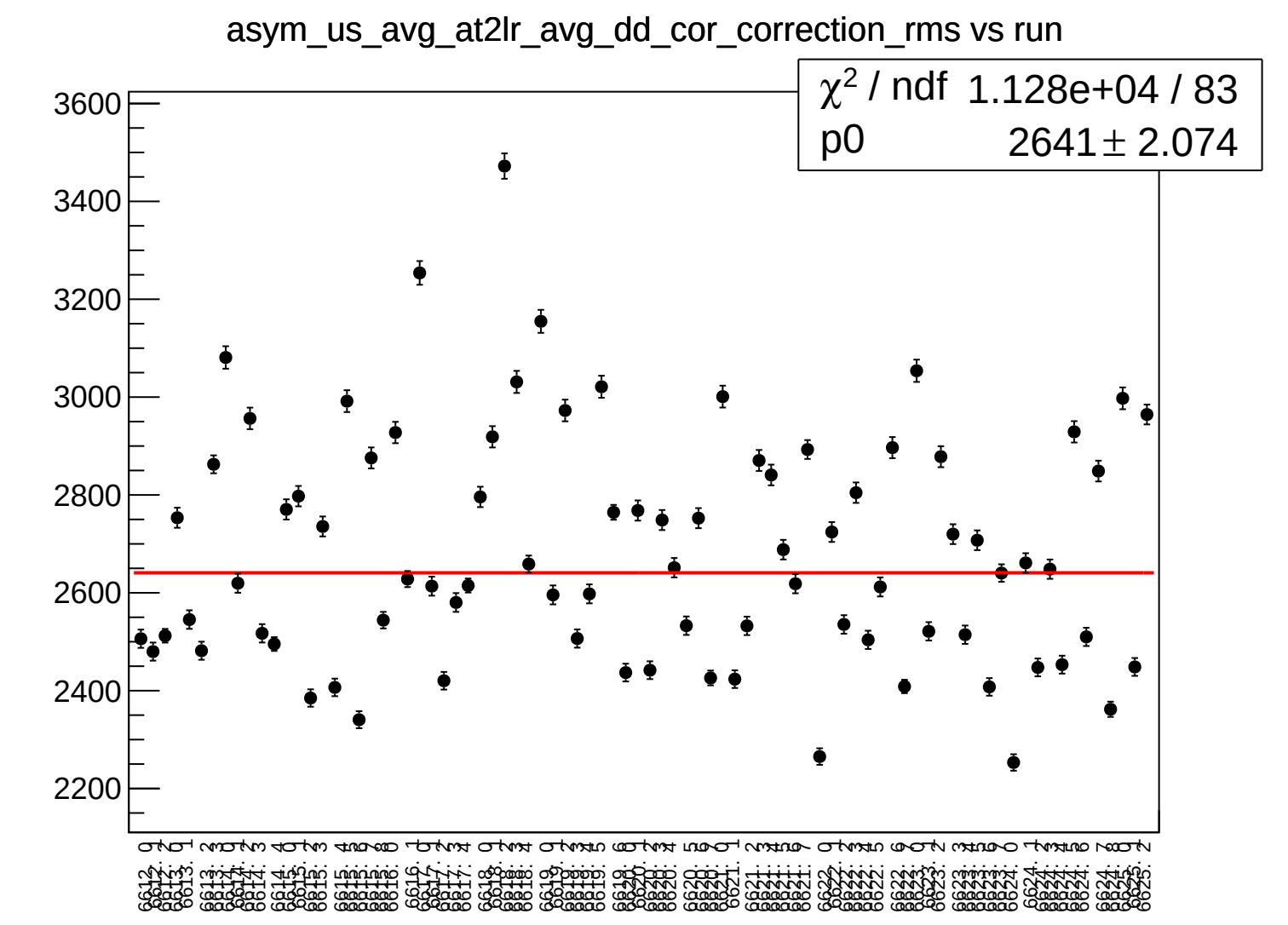

cor_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 83.94 / 83
p0 −4291 ± 3340
100
50
0
−50
−100
pull
Entries 84
Mean 244.3
Std Dev 0
2
1
0
−1
−2

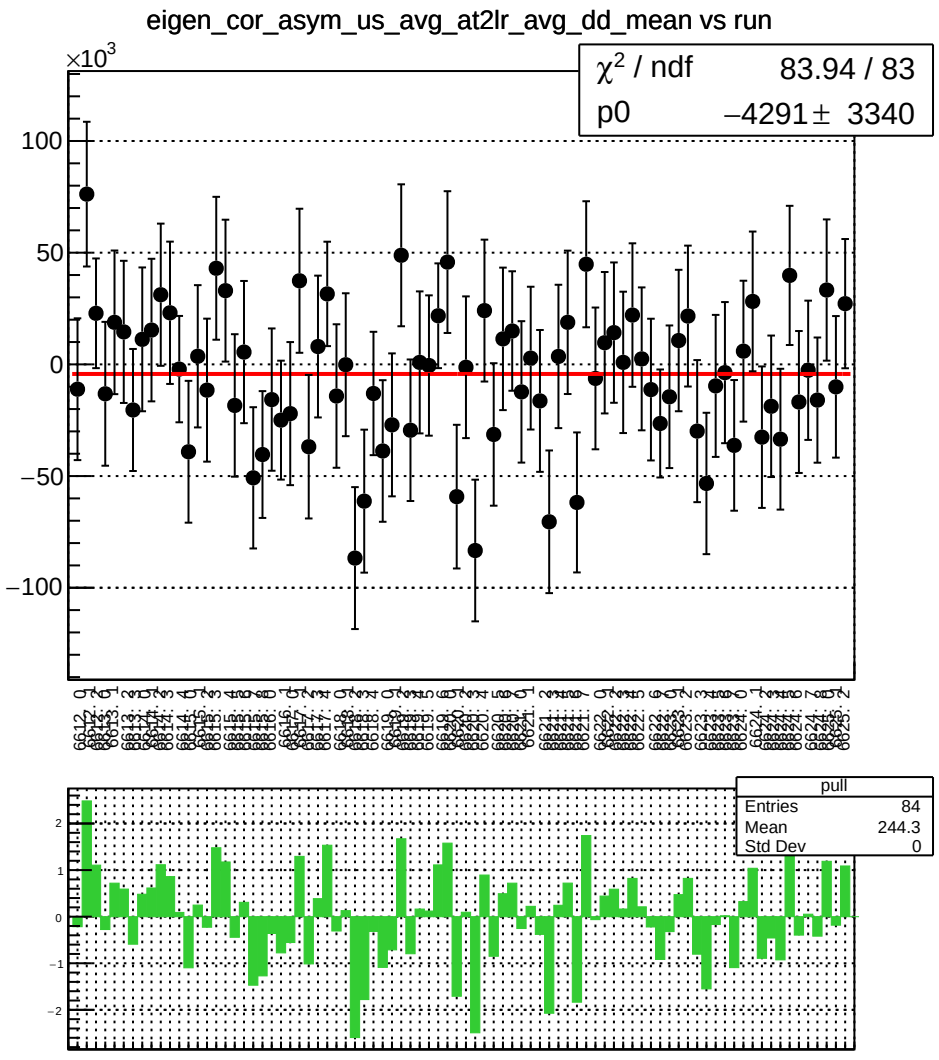

pull1D
Entries 84
Mean −0.01008
Std Dev 0.9996
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

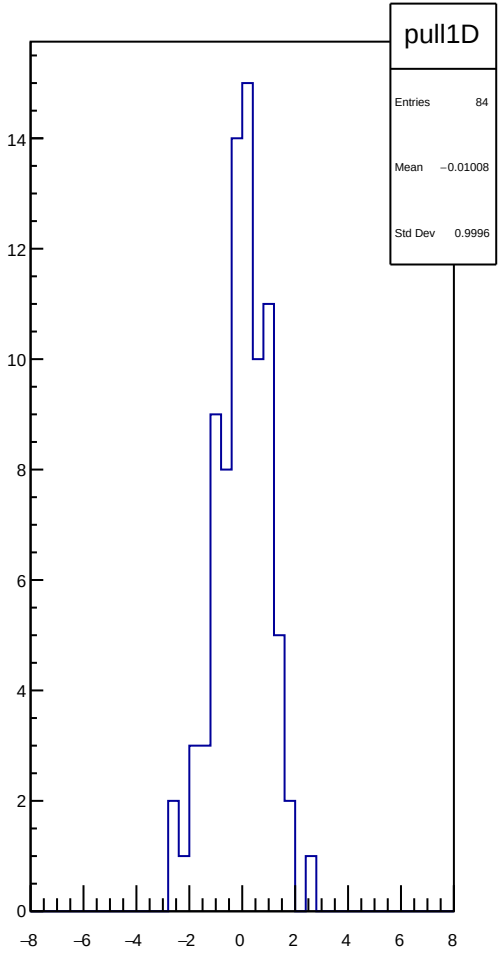

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 118.2 / 83
p0 3018 ± 2.362
3150
3100
3050
3000
2950

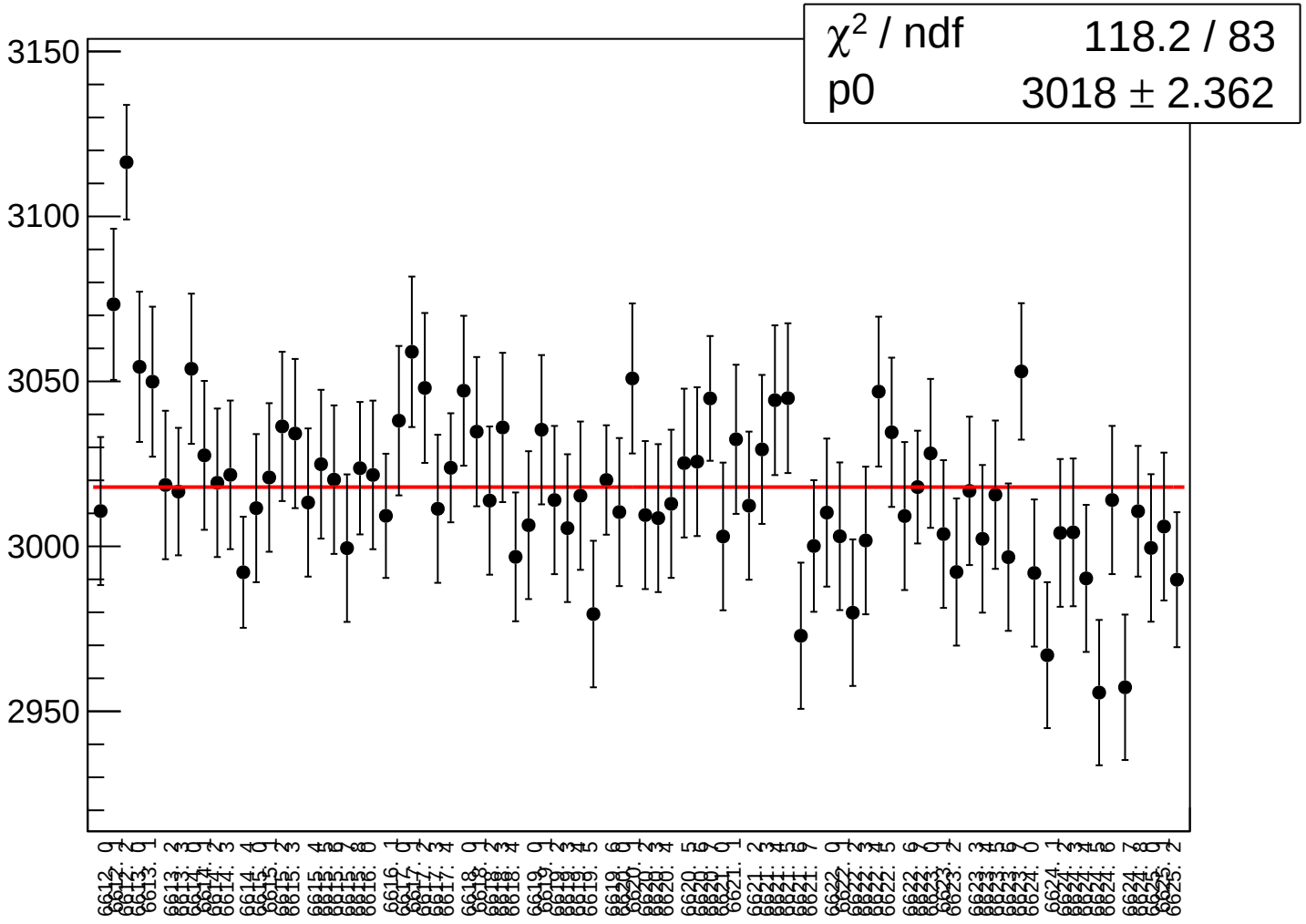

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
χ² / ndf 74.56 / 83
p0 −371.1± 2933
×10³
pull
Entries 84
Mean −25.59
Std Dev 0

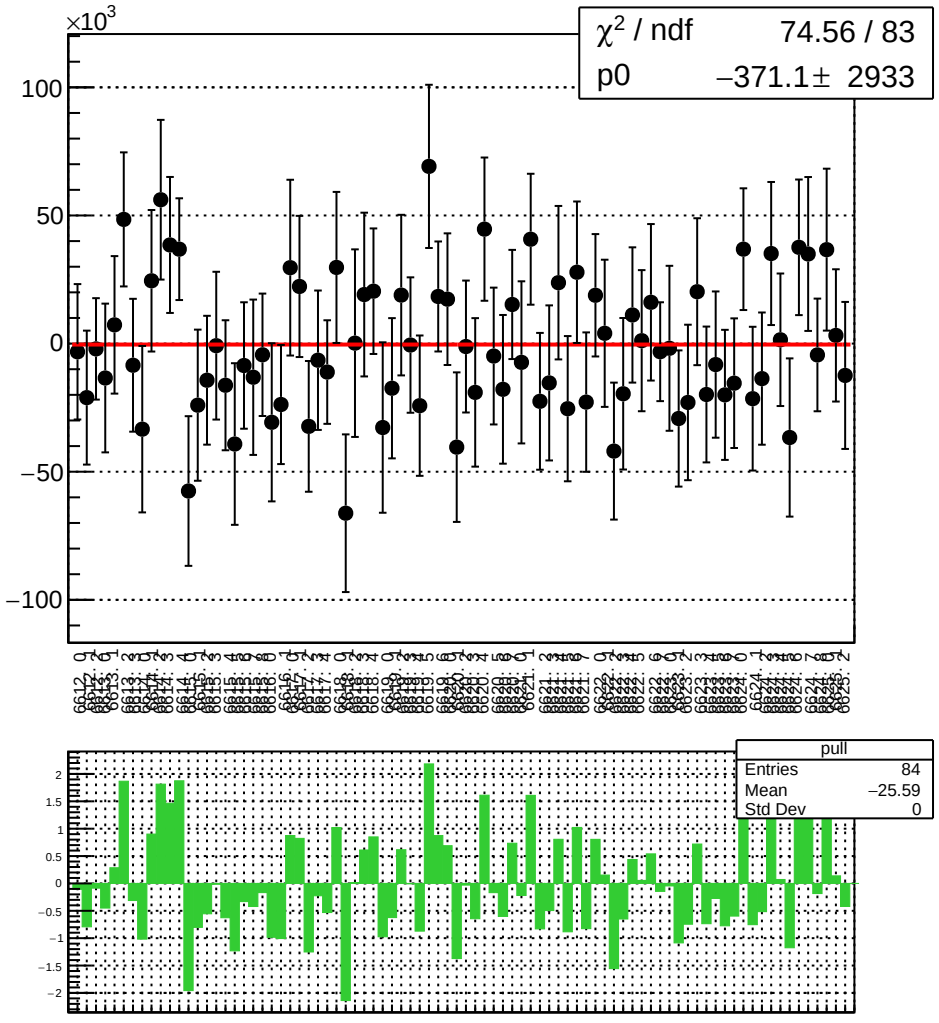

pull1D
Entries 84
Mean −0.01331
Std Dev 0.9421

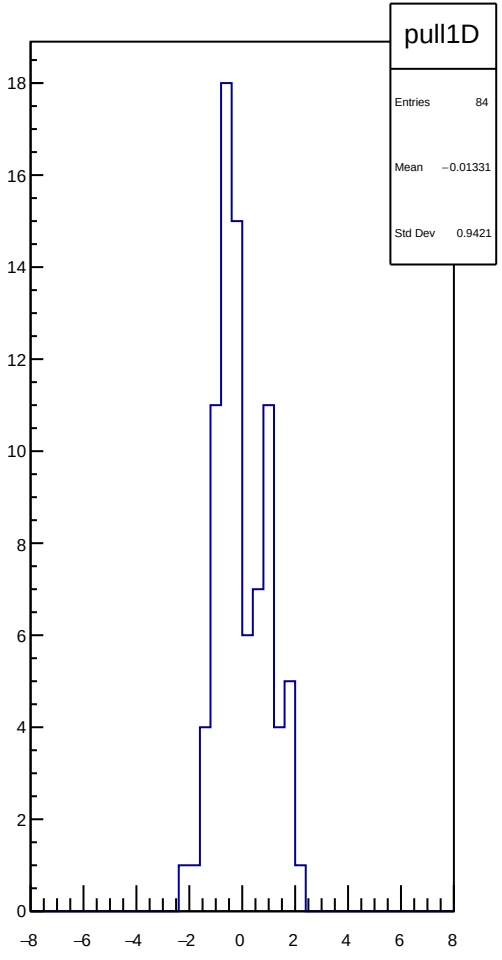

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.128e+04 / 83
p0 2641 ± 2.074
3600
3400
3200
3000
2800
2600
2400
2200

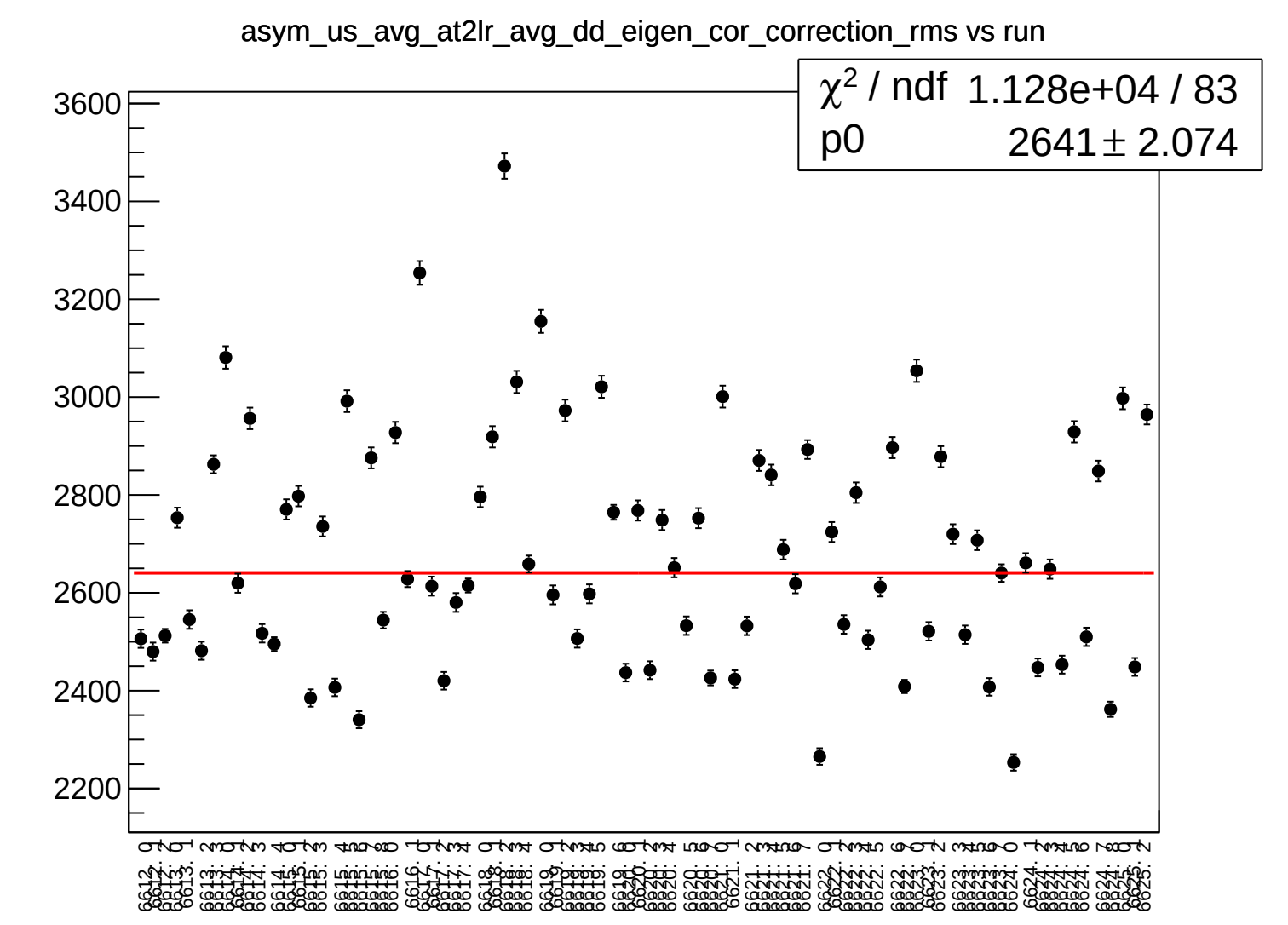

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 83.94 / 83
p0 −4291 ± 3340
100
50
0
−50
−100
pull
Entries 84
Mean 244.3
Std Dev 0
2
1
0
−1
−2

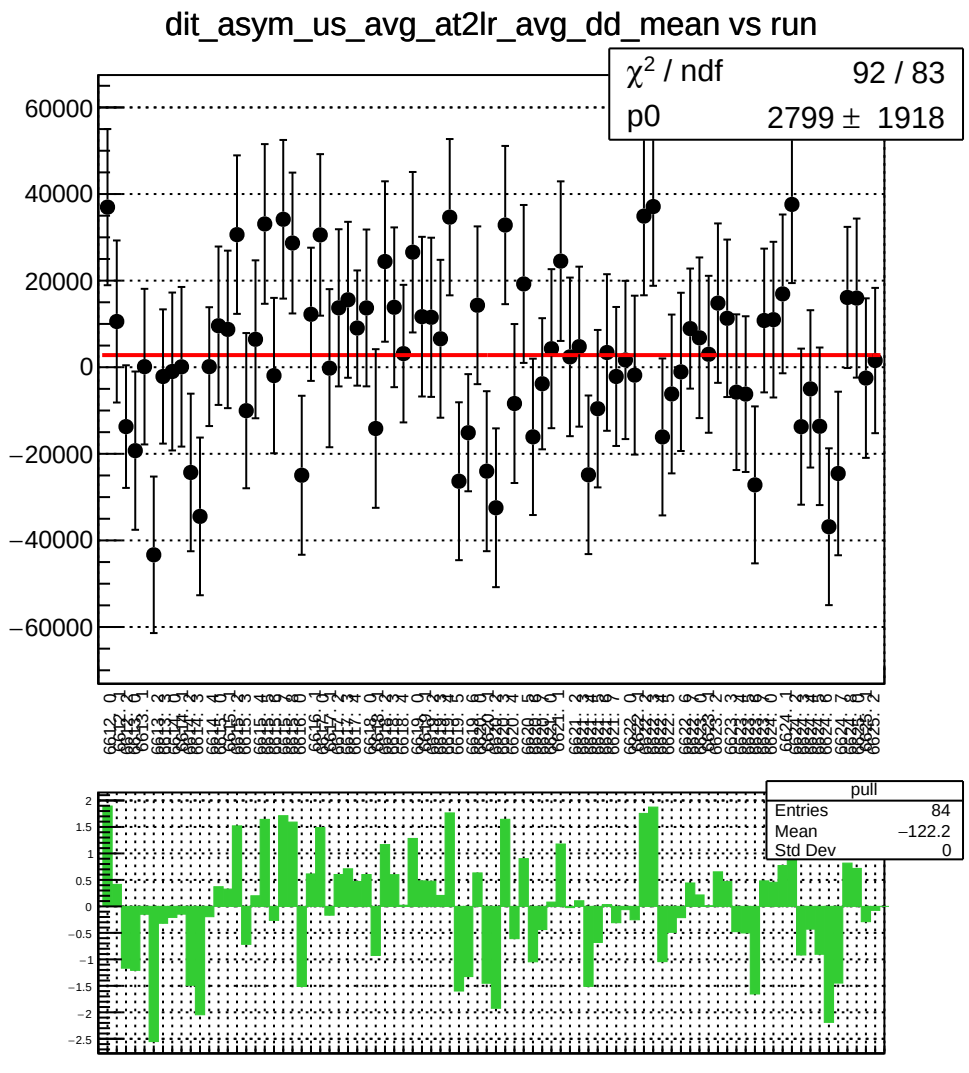

pull1D
Entries 84
Mean −0.01008
Std Dev 0.9996
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

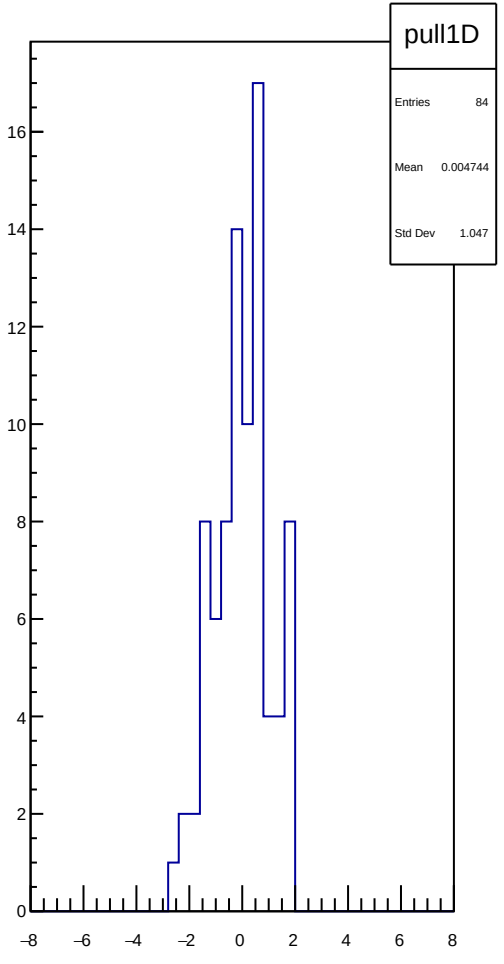

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 118.2 / 83
p0 3018 ± 2.362
3150
3100
3050
3000
2950

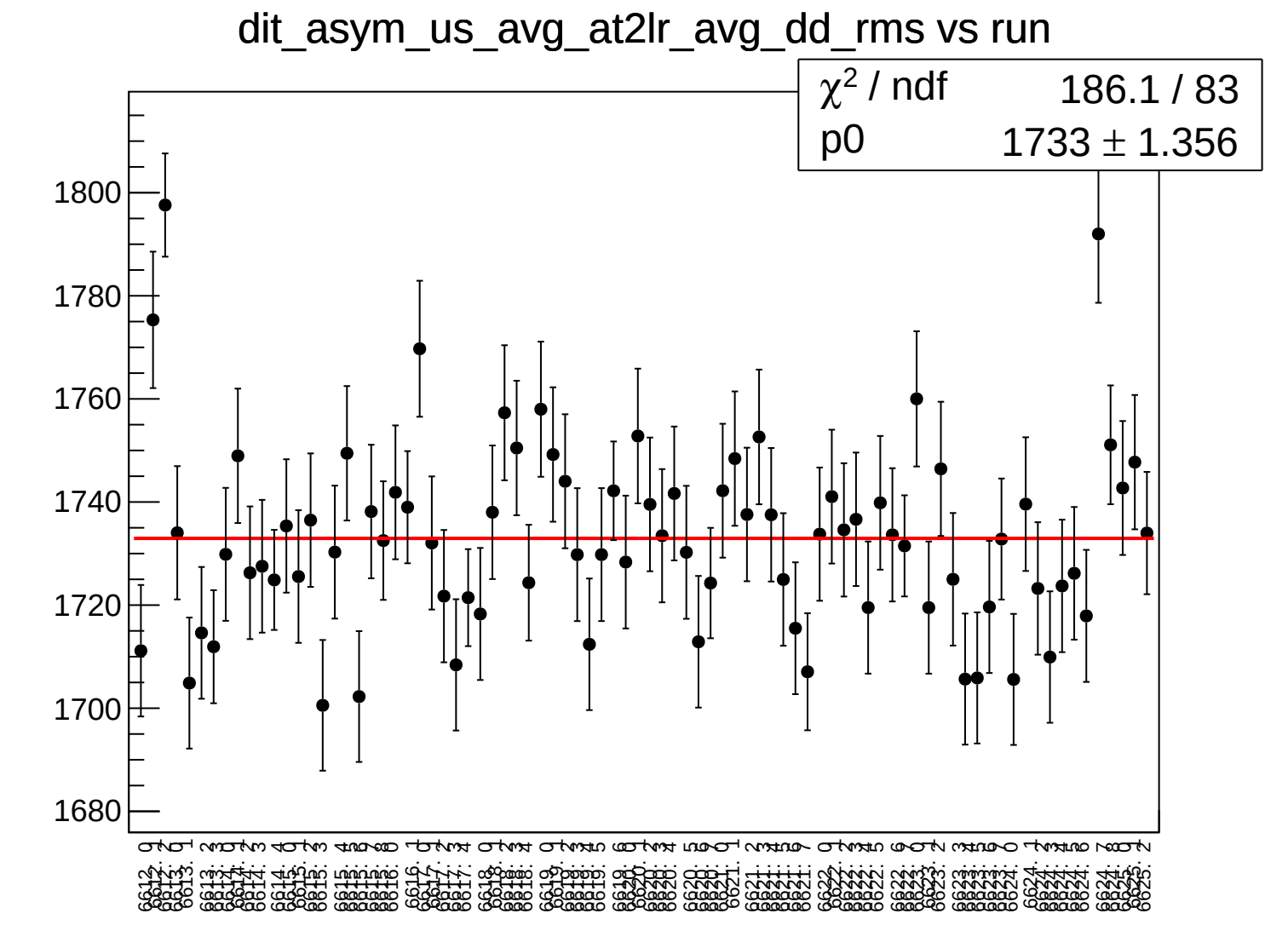

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.56 / 83
p0 −371.1± 2933
pull
Entries 84
Mean −25.59
Std Dev 0

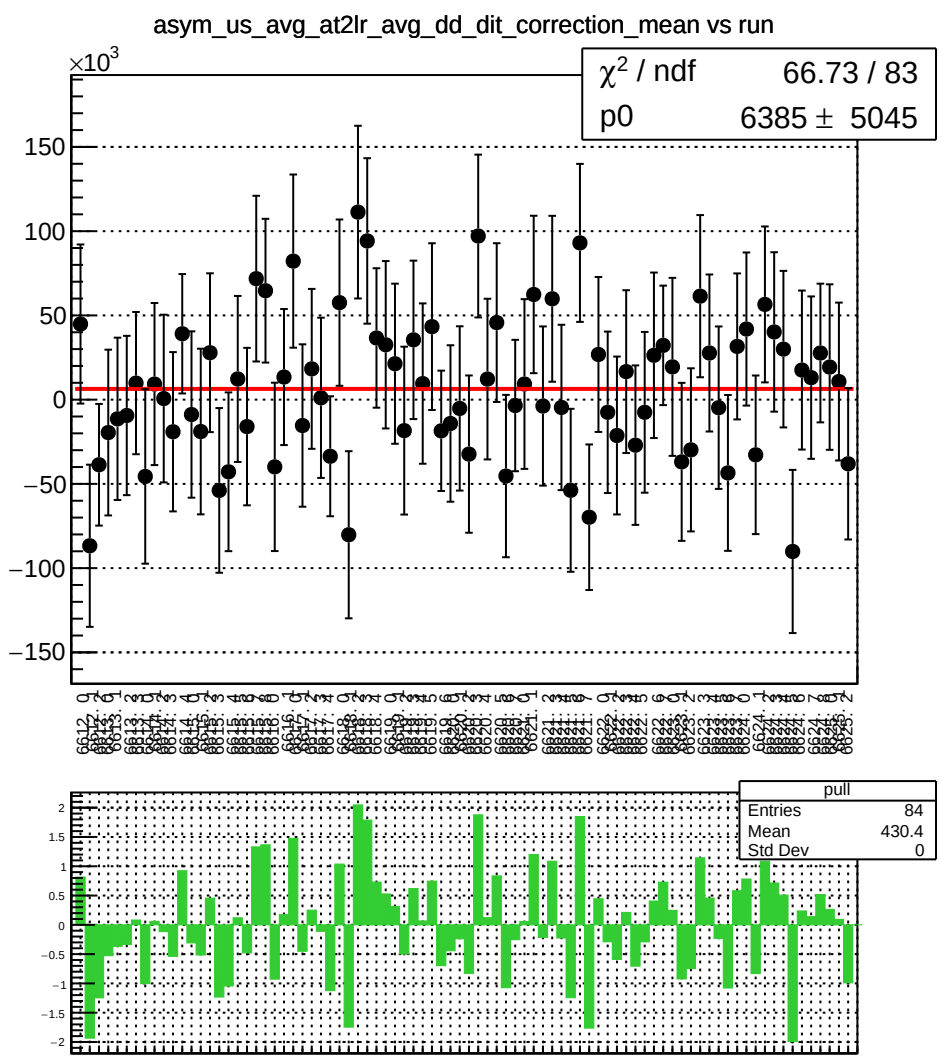

pull1D
Entries 84
Mean −0.01331
Std Dev 0.9421

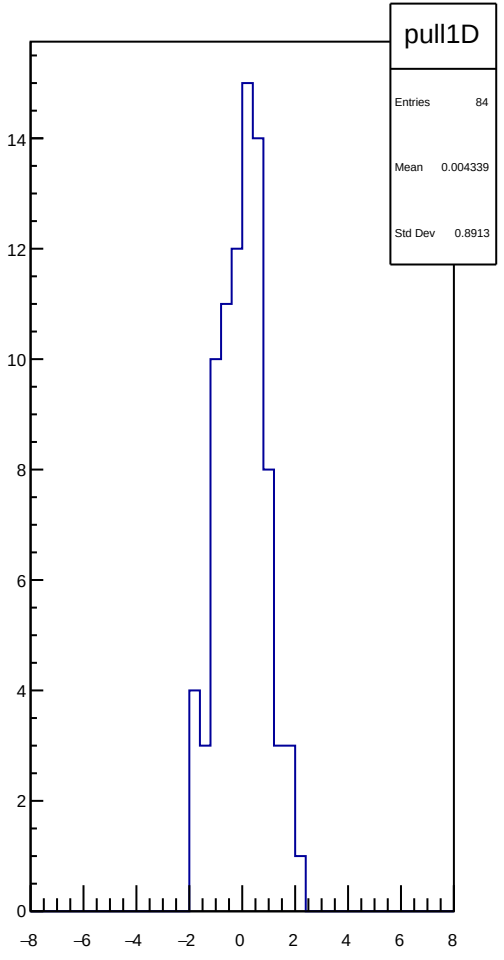

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.128e+04 / 83
p0 2641 ± 2.074
3600
3400
3200
3000
2800
2600
2400
2200

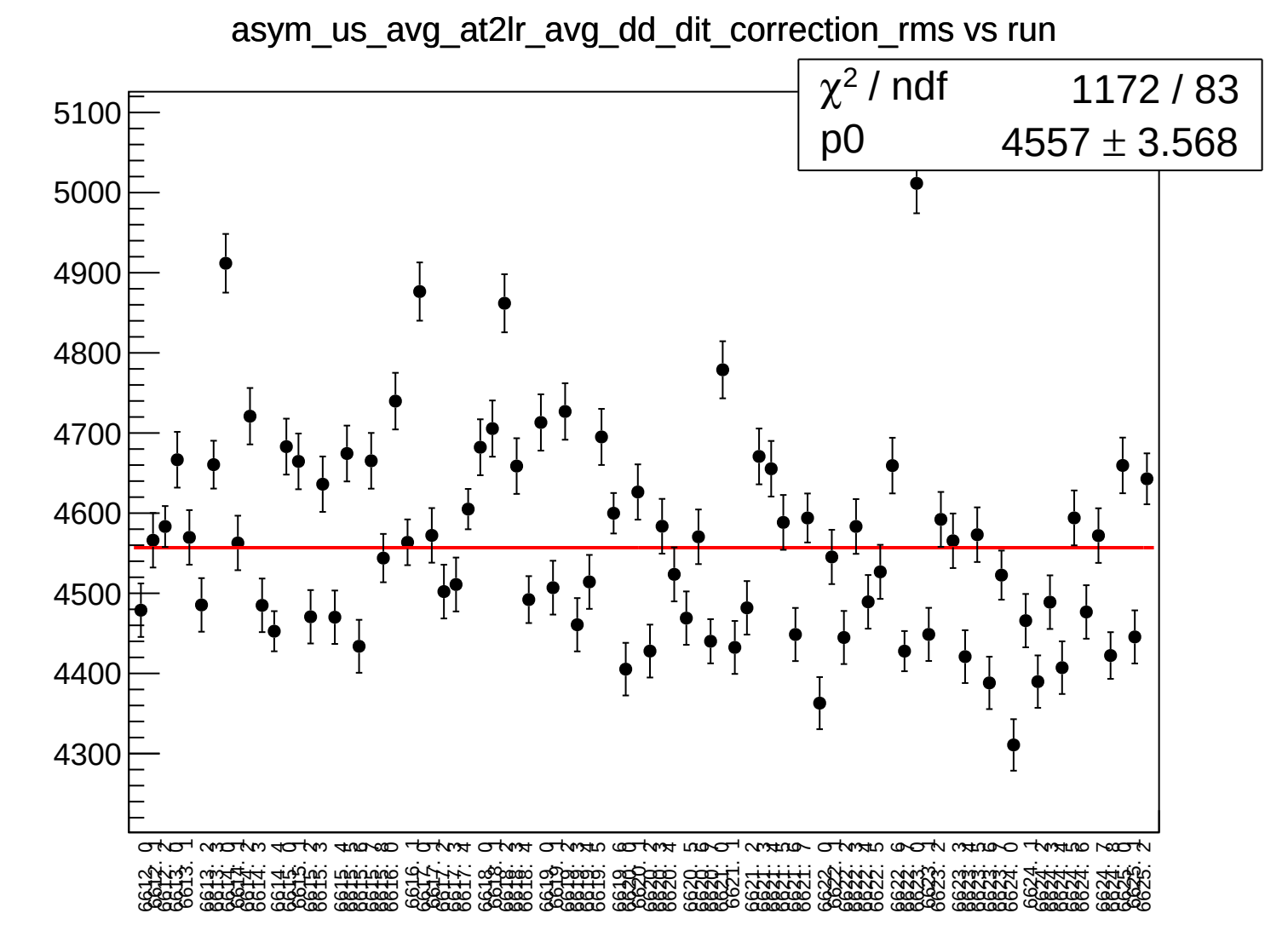

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 92 / 83
p0 2799 ± 1918
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −122.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

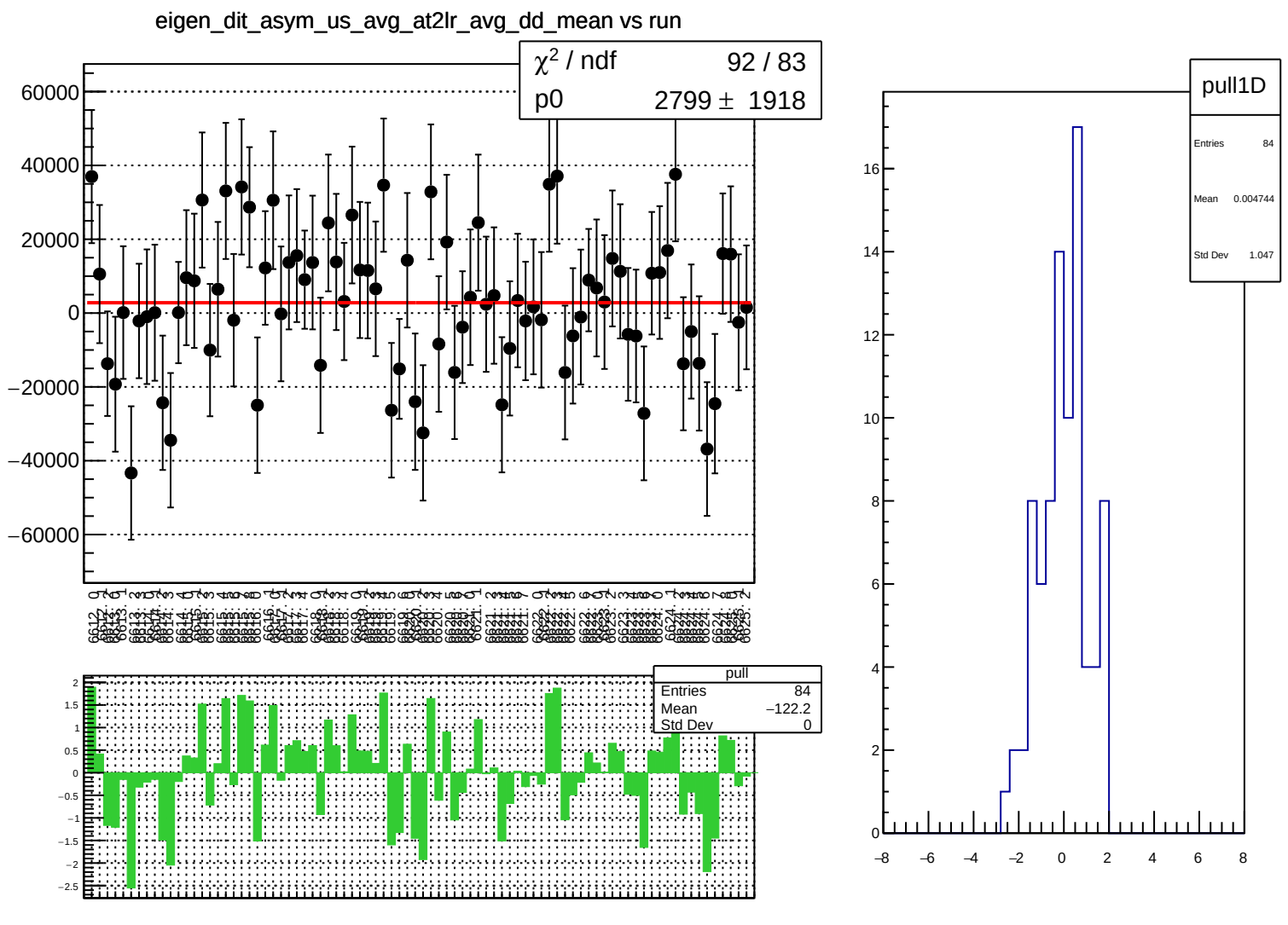

pull1D
Entries 84
Mean 0.004744
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

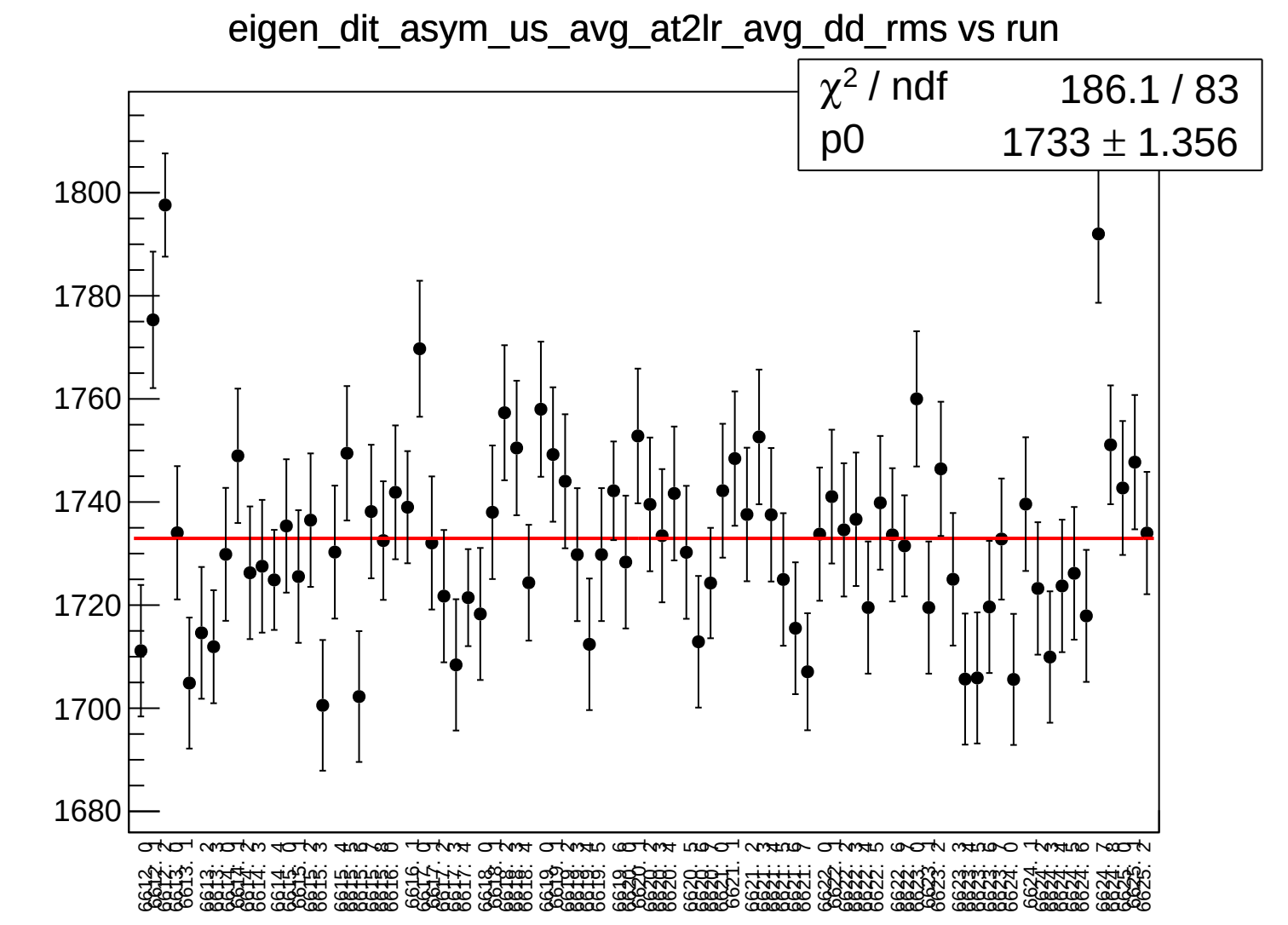

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 186.1 / 83
p0 1733 ± 1.356
1800
1780
1760
1740
1720
1700
1680

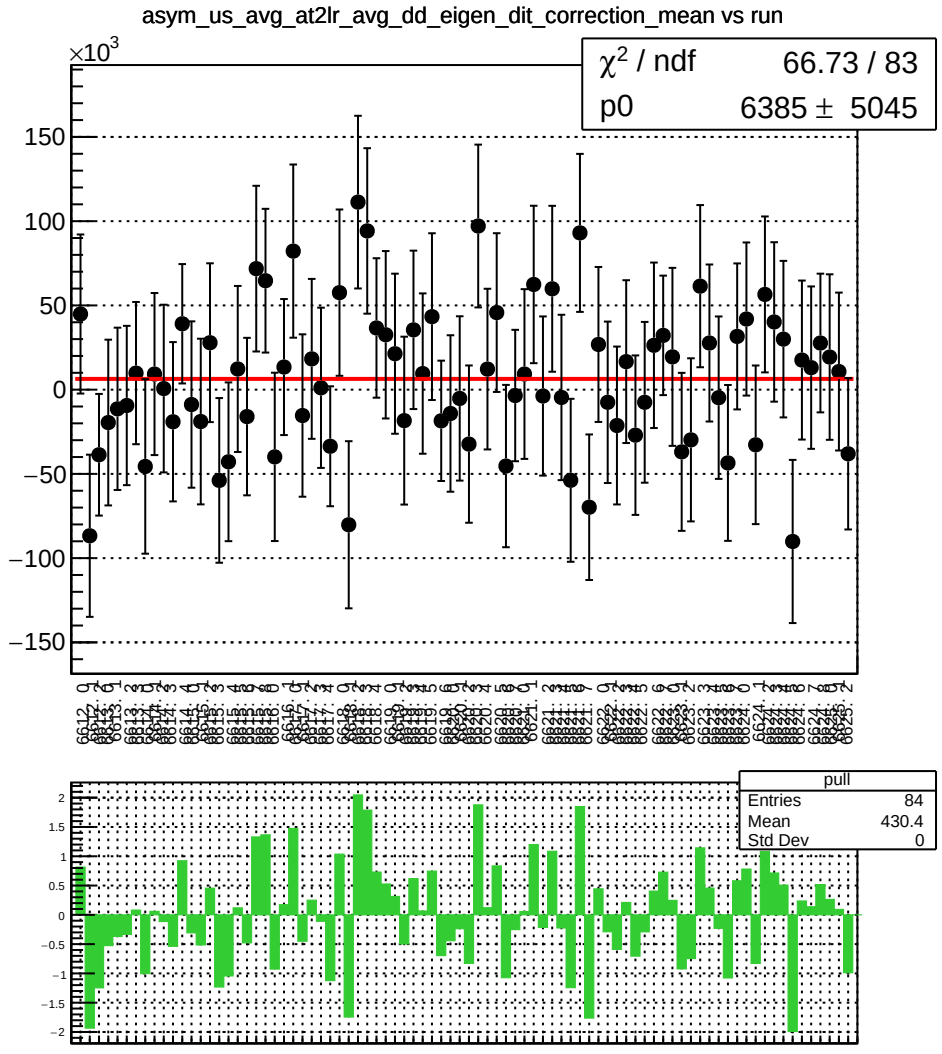

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 66.73 / 83
p0 6385 ± 5045
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 430.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

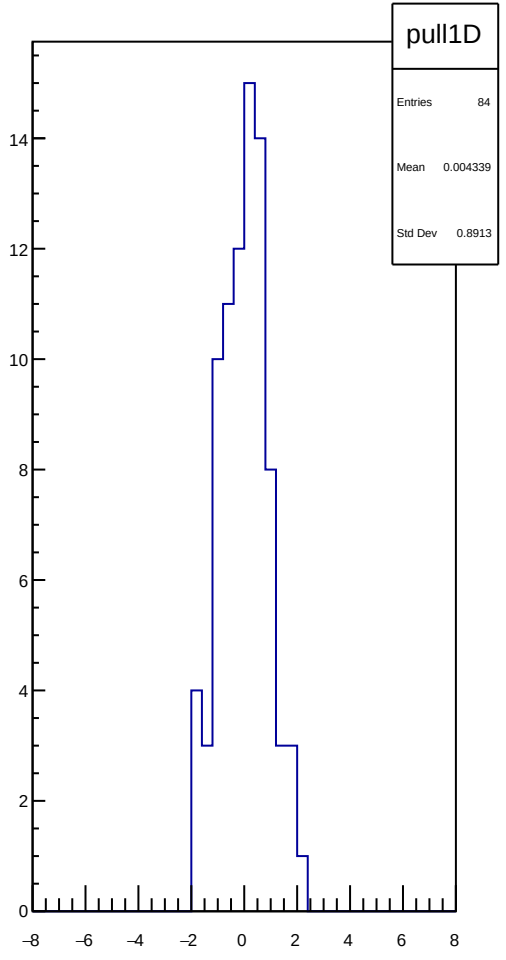

pull1D
Entries 84
Mean 0.004339
Std Dev 0.8913
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

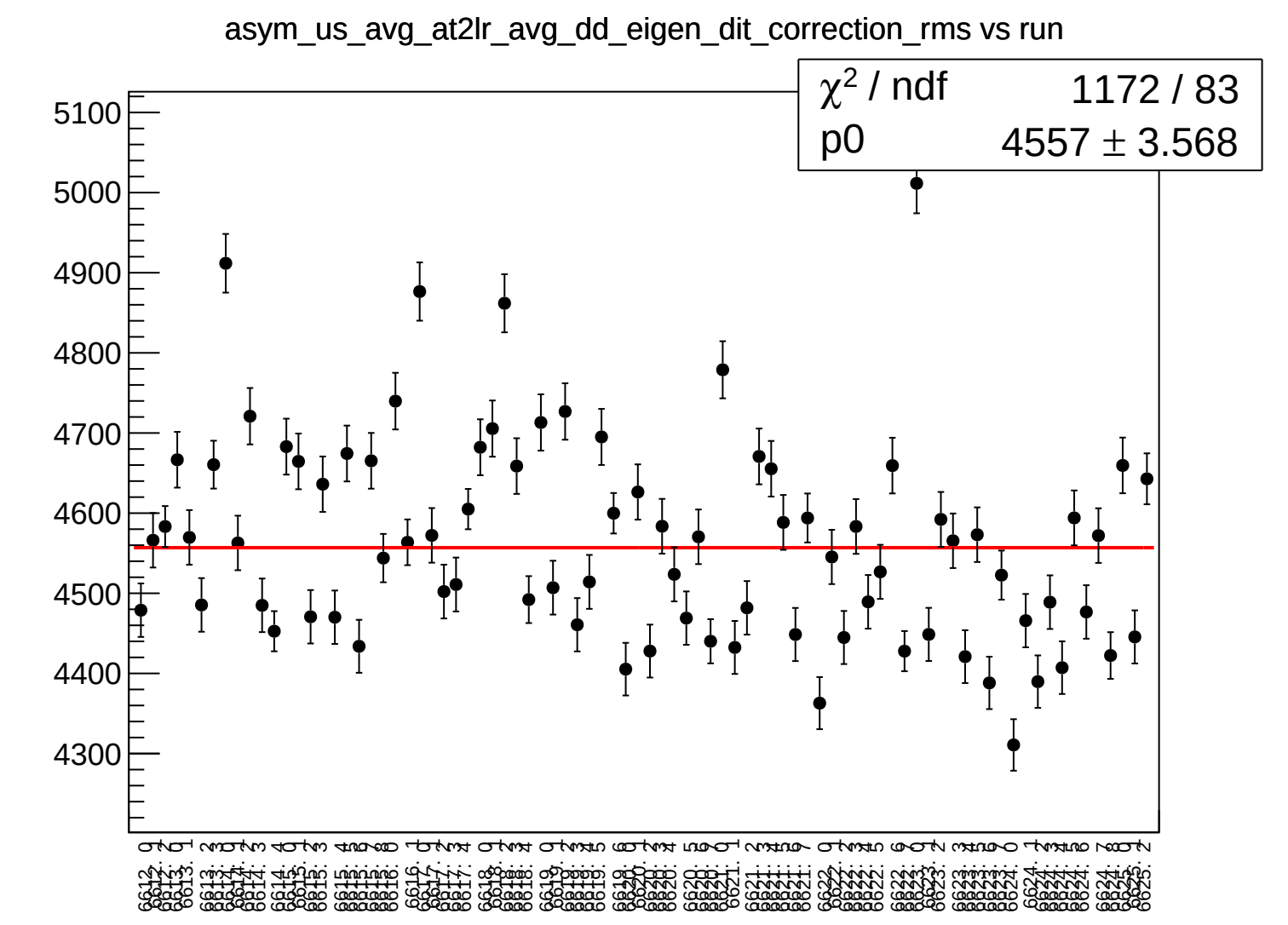

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1172 / 83
p0 4557 ± 3.568
5100
5000
4900
4800
4700
4600
4500
4400
4300

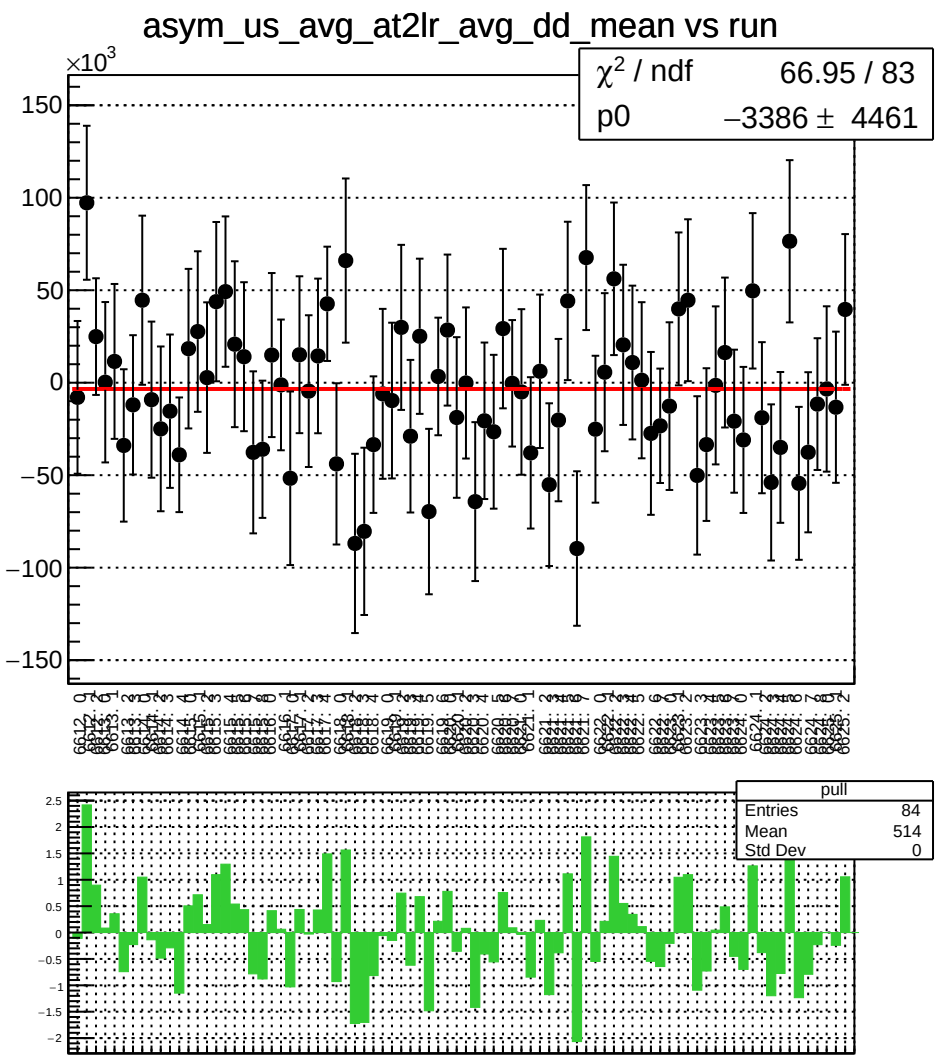

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 92 / 83
p0 2799 ± 1918
pull
Entries 84
Mean −122.2
Std Dev 0
pull1D
Entries 84
Mean 0.004744
Std Dev 1.047

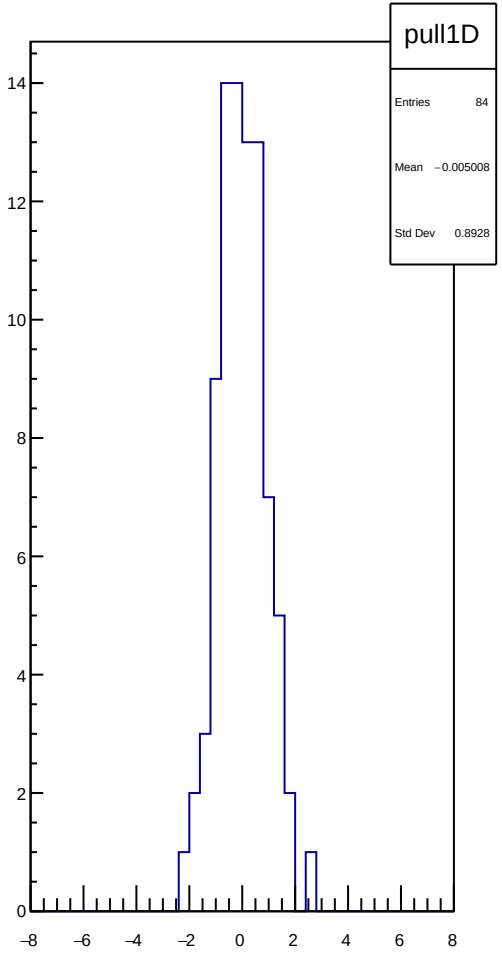

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 186.1 / 83
p0 1733 ± 1.356
1800
1780
1760
1740
1720
1700
1680

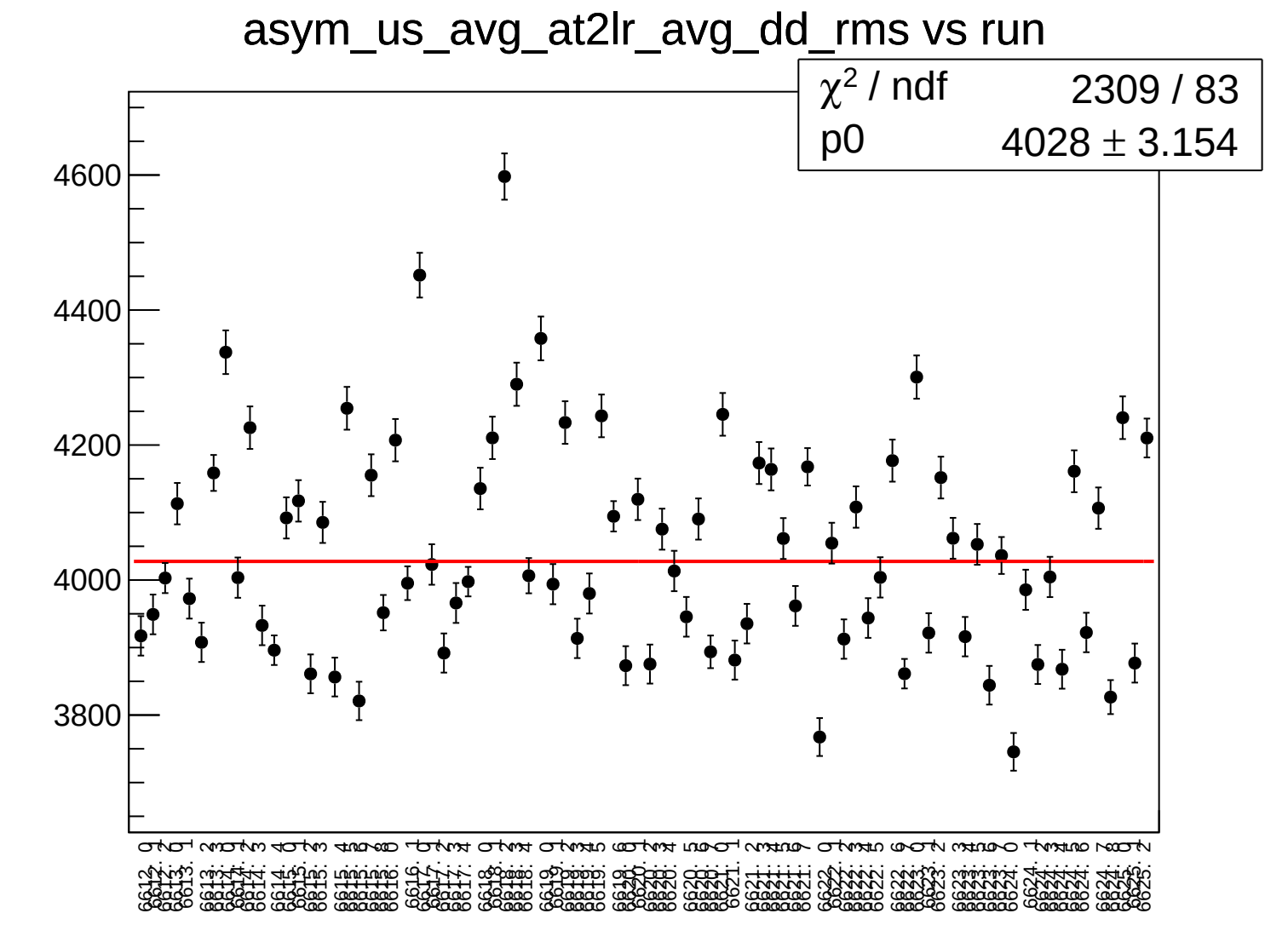

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.73 / 83
p0 6385 ± 5045
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 430.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

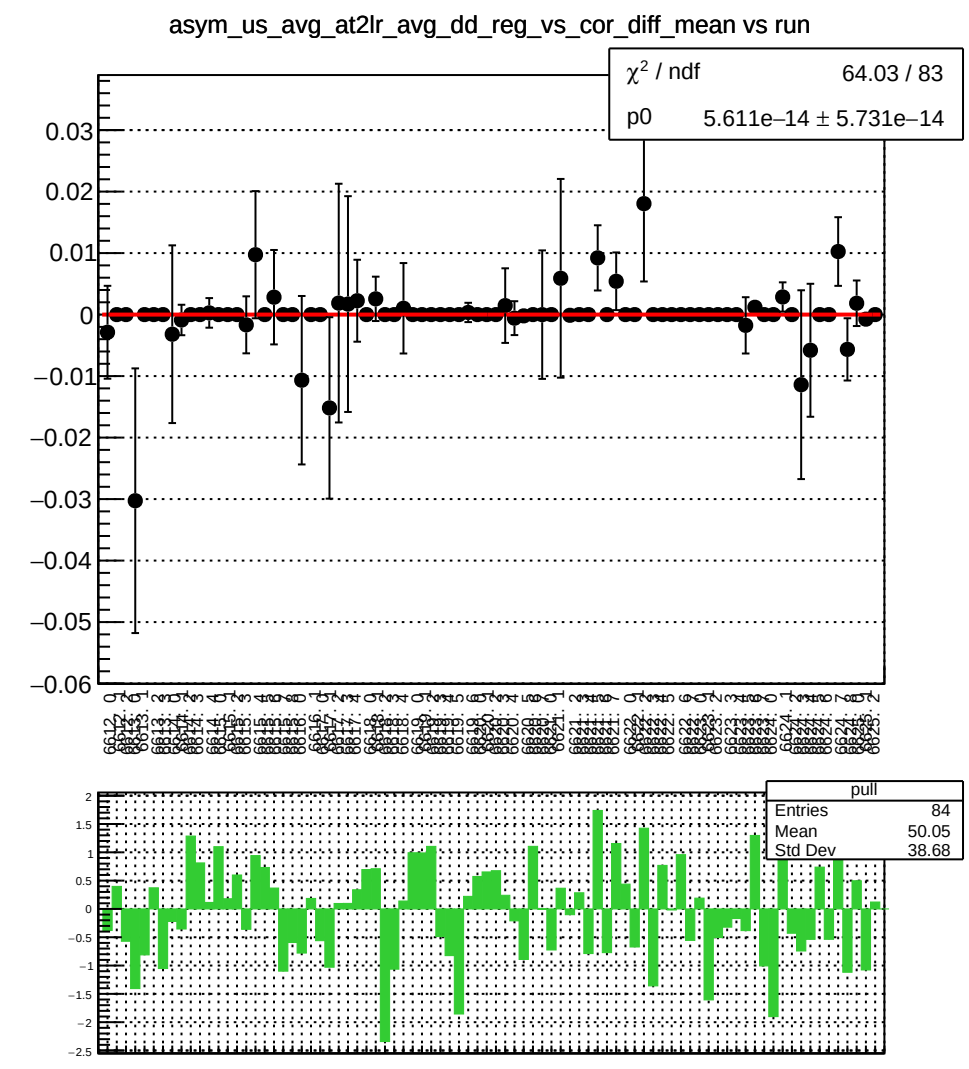

pull1D
Entries 84
Mean 0.004339
Std Dev 0.8913
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

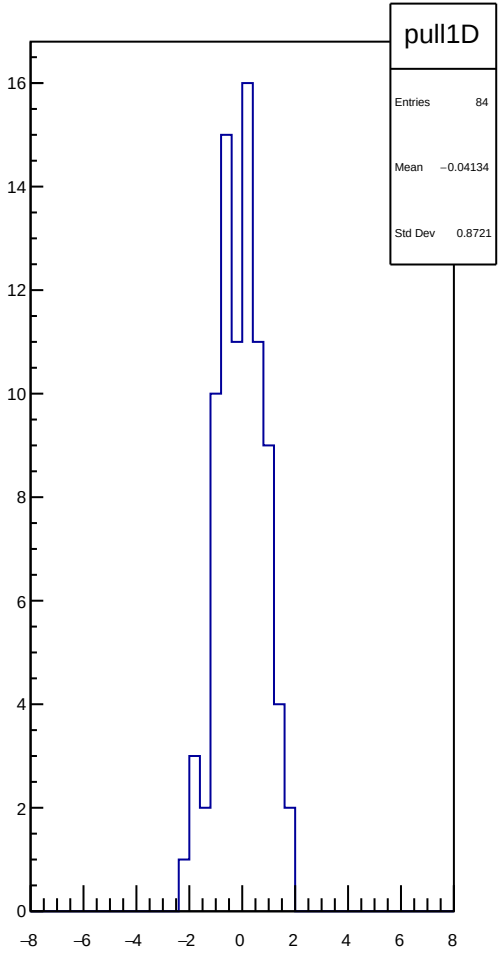

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1172 / 83
p0 4557 ± 3.568
5100
5000
4900
4800
4700
4600
4500
4400
4300

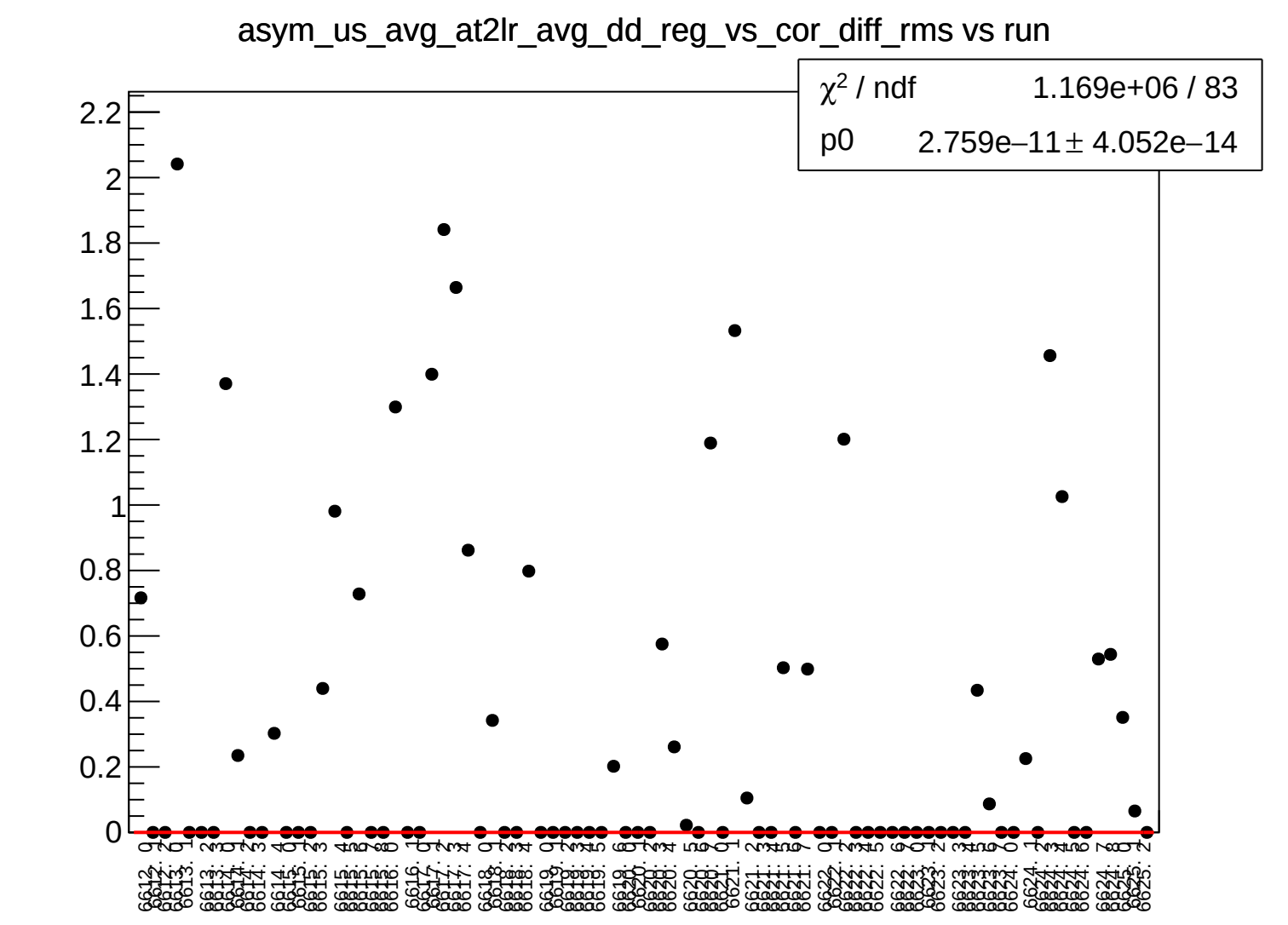

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 66.95 / 83
p0 −3386 ± 4461
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 514
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

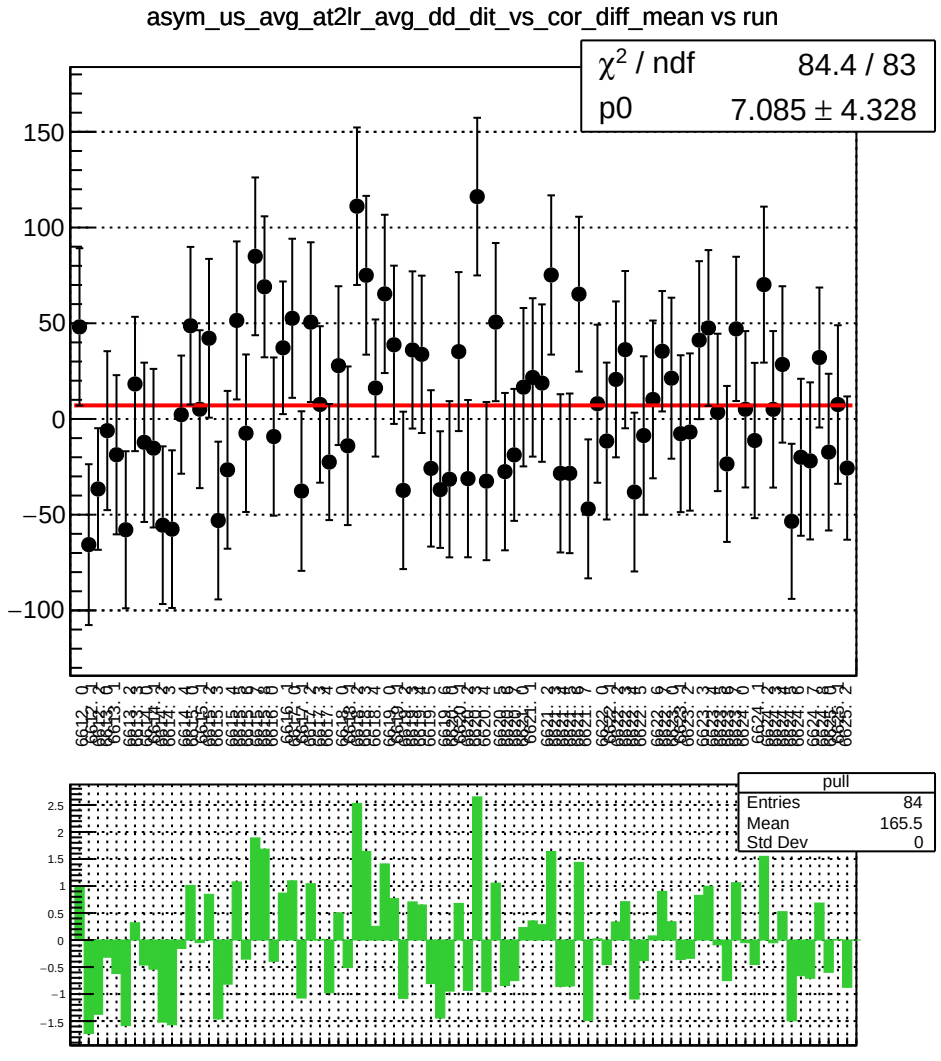

pull1D
Entries 84
Mean −0.005008
Std Dev 0.8928
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

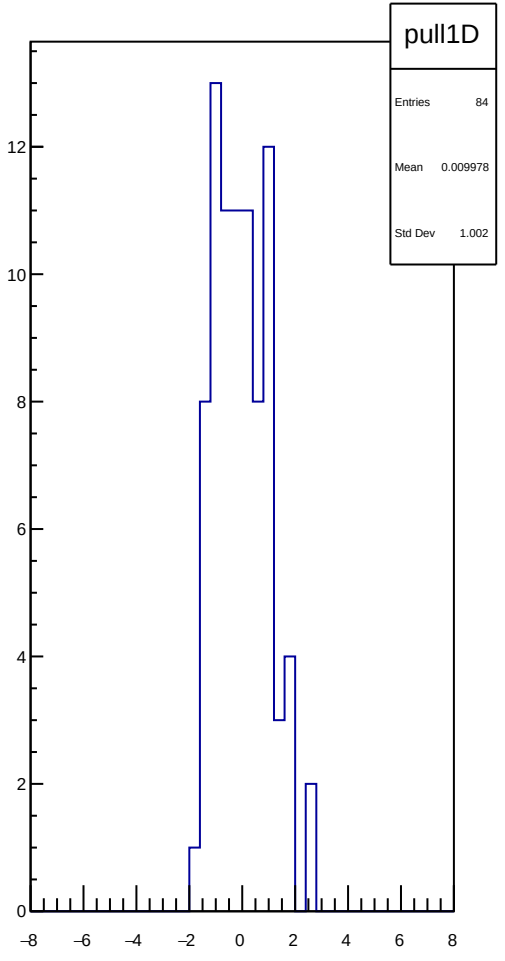

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2309 / 83
p0 4028 ± 3.154
4600
4400
4200
4000
3800

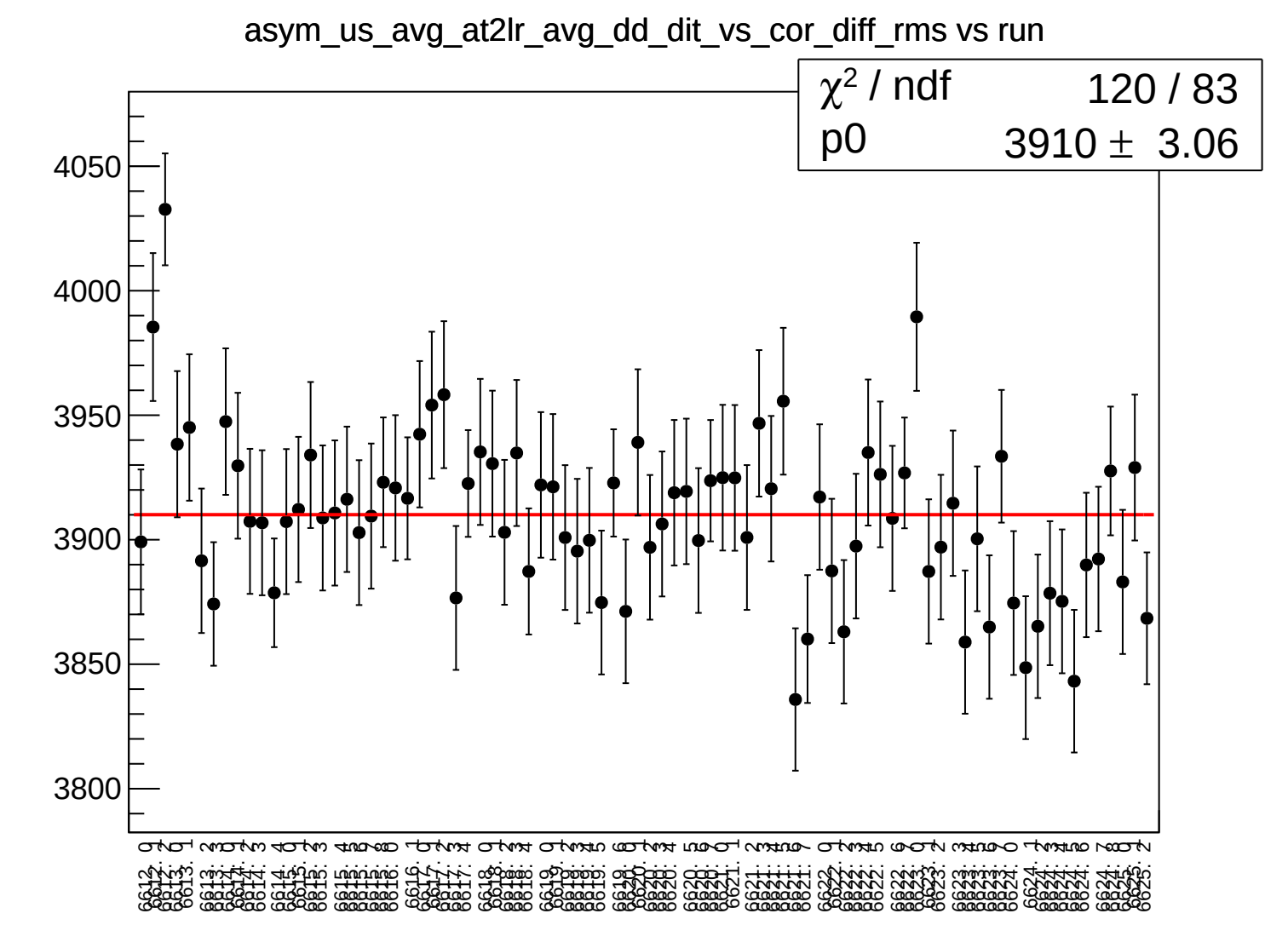

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 64.03 / 83
p0 5.611e−14 ± 5.731e−14
pull
Entries 84
Mean 50.05
Std Dev 38.68

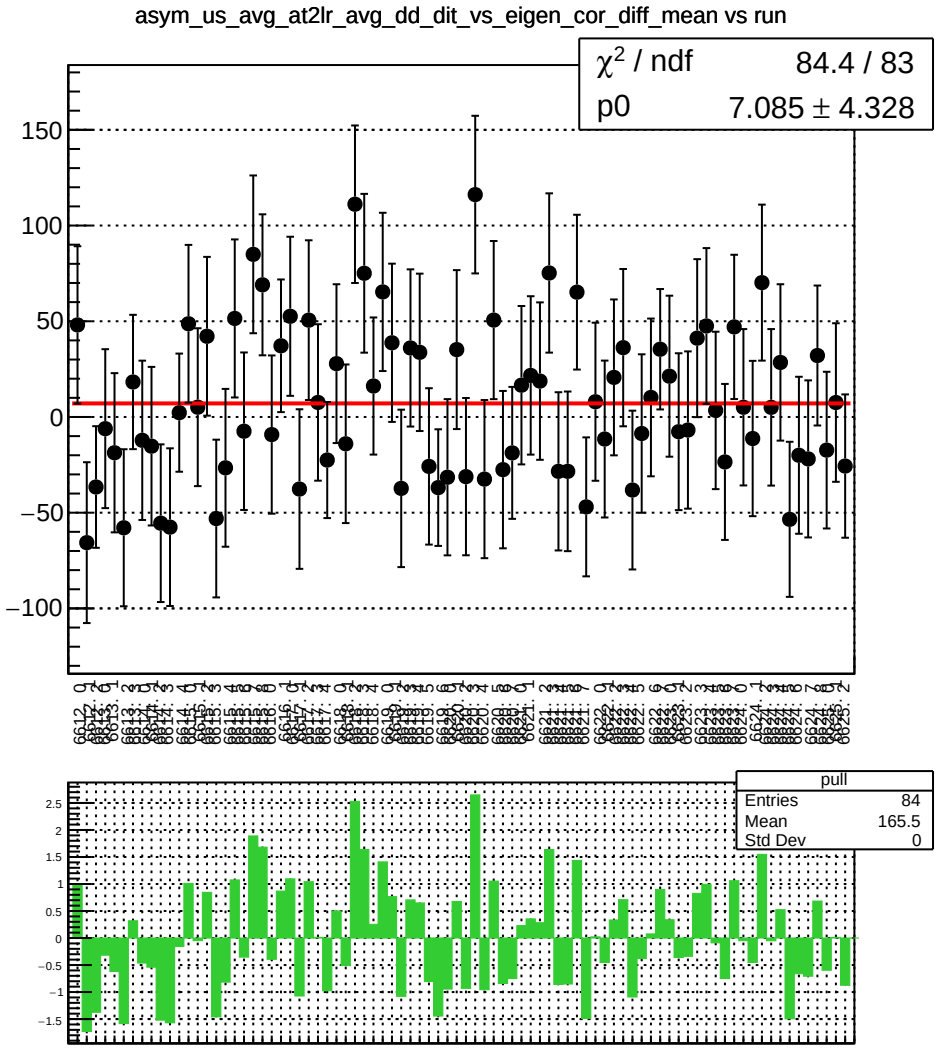

pull1D
Entries 84
Mean −0.04134
Std Dev 0.8721

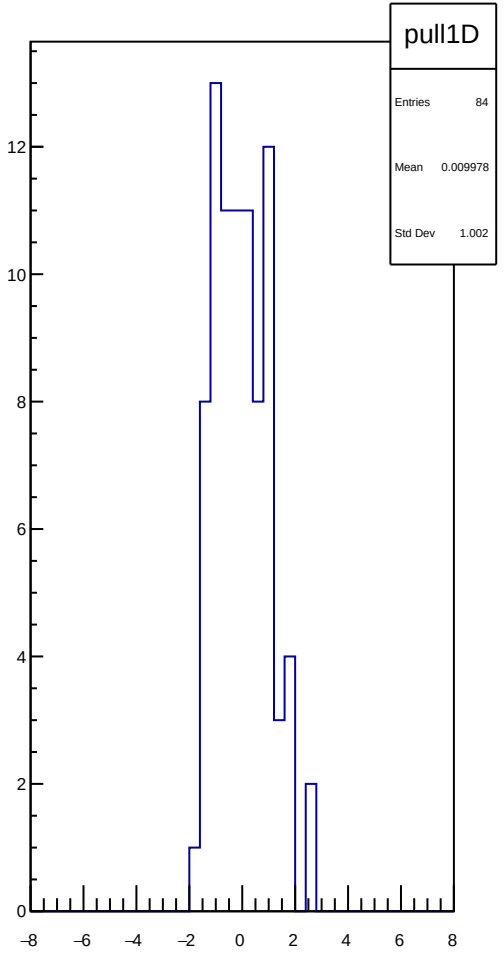

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.169e+06 / 83
p0 2.759e−11 ± 4.052e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

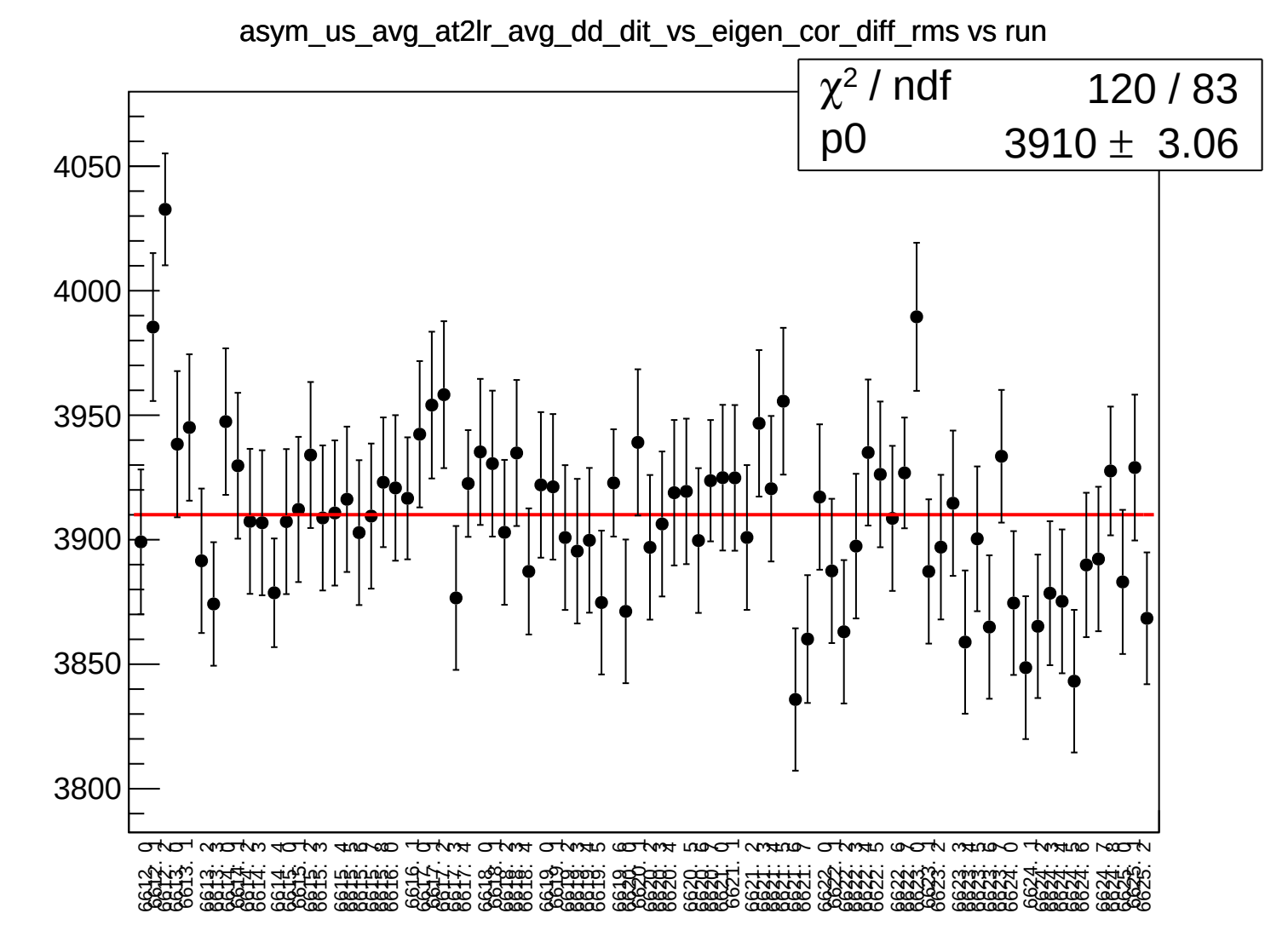

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.4 / 83
p0 7.085 ± 4.328
150
100
50
0
−50
−100
pull
Entries 84
Mean 165.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

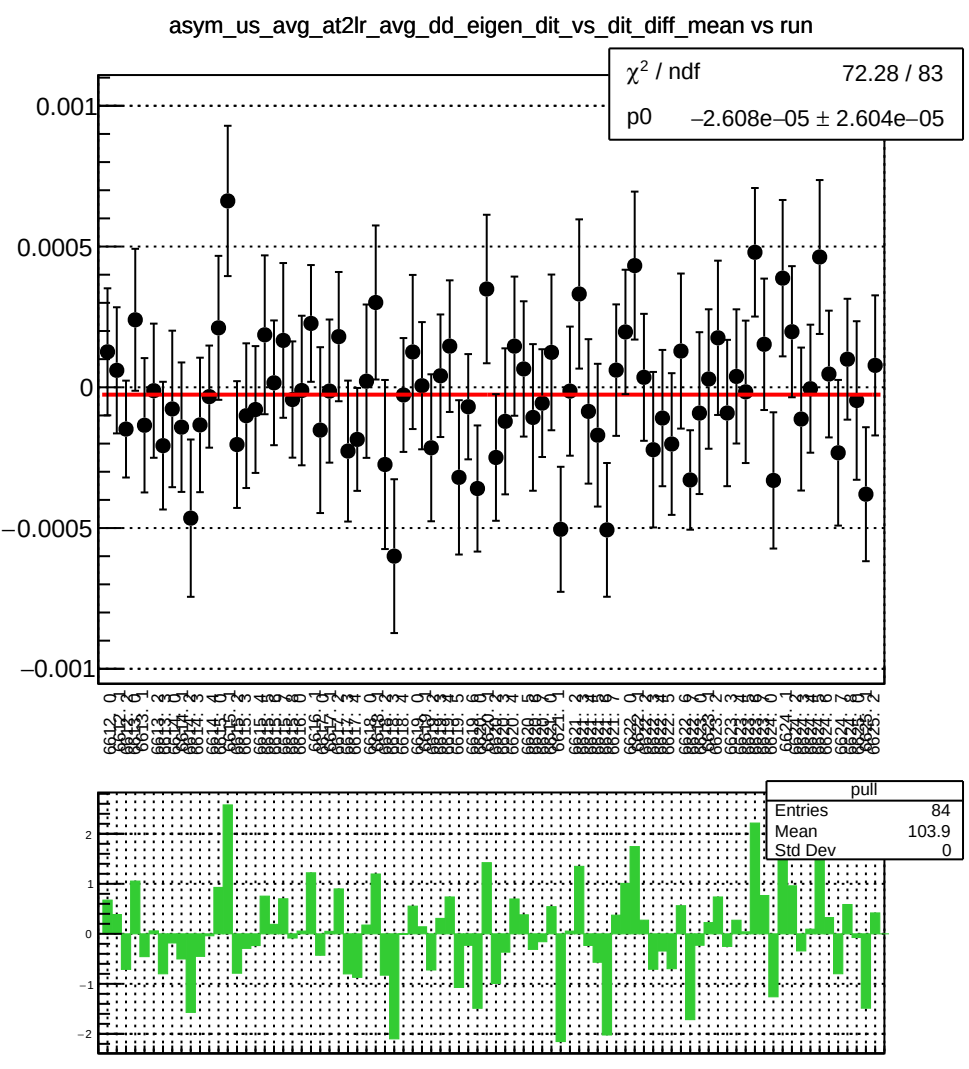

pull1D
Entries 84
Mean 0.009978
Std Dev 1.002
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

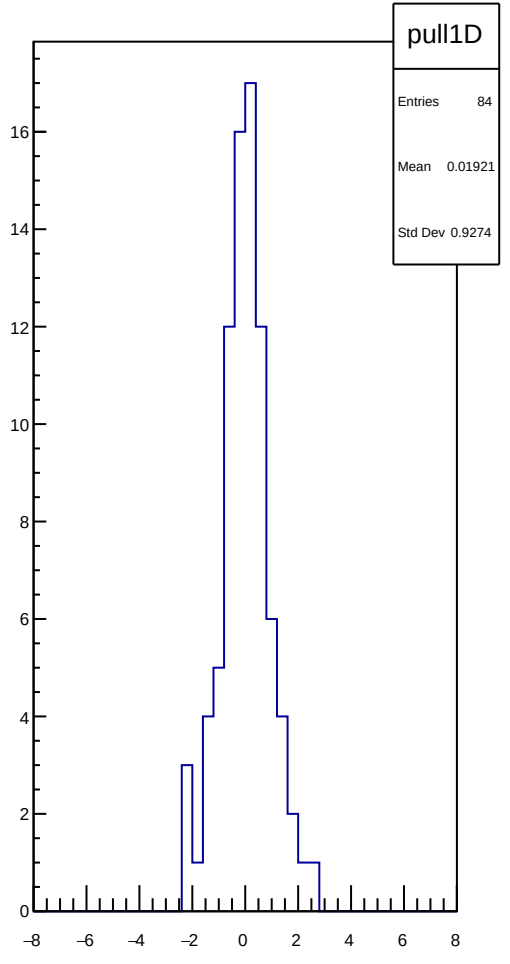

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 120 / 83
p0 3910 ± 3.06
4050
4000
3950
3900
3850
3800

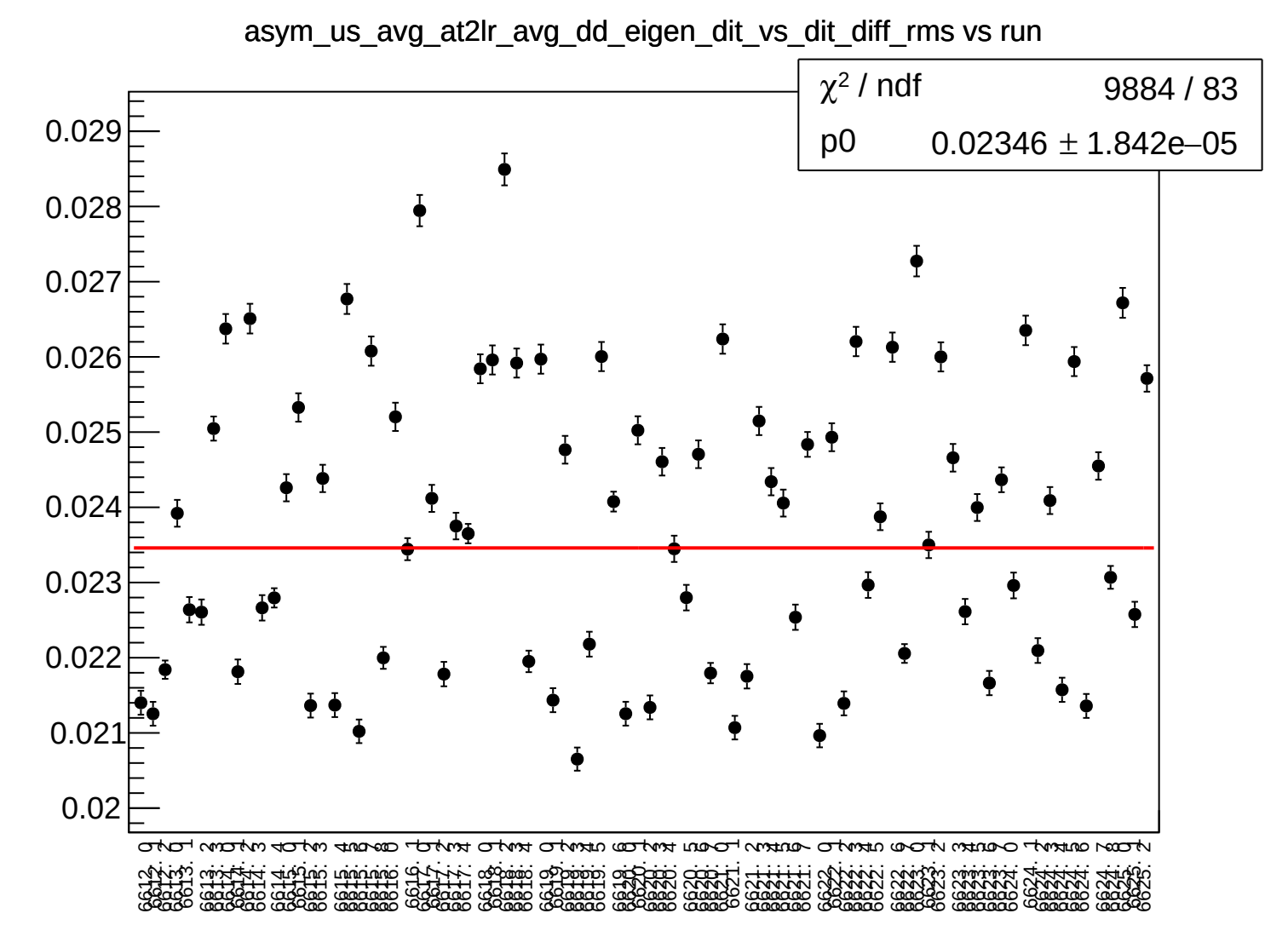

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.4 / 83
p0 7.085 ± 4.328
150
100
50
0
−50
−100
pull
Entries 84
Mean 165.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

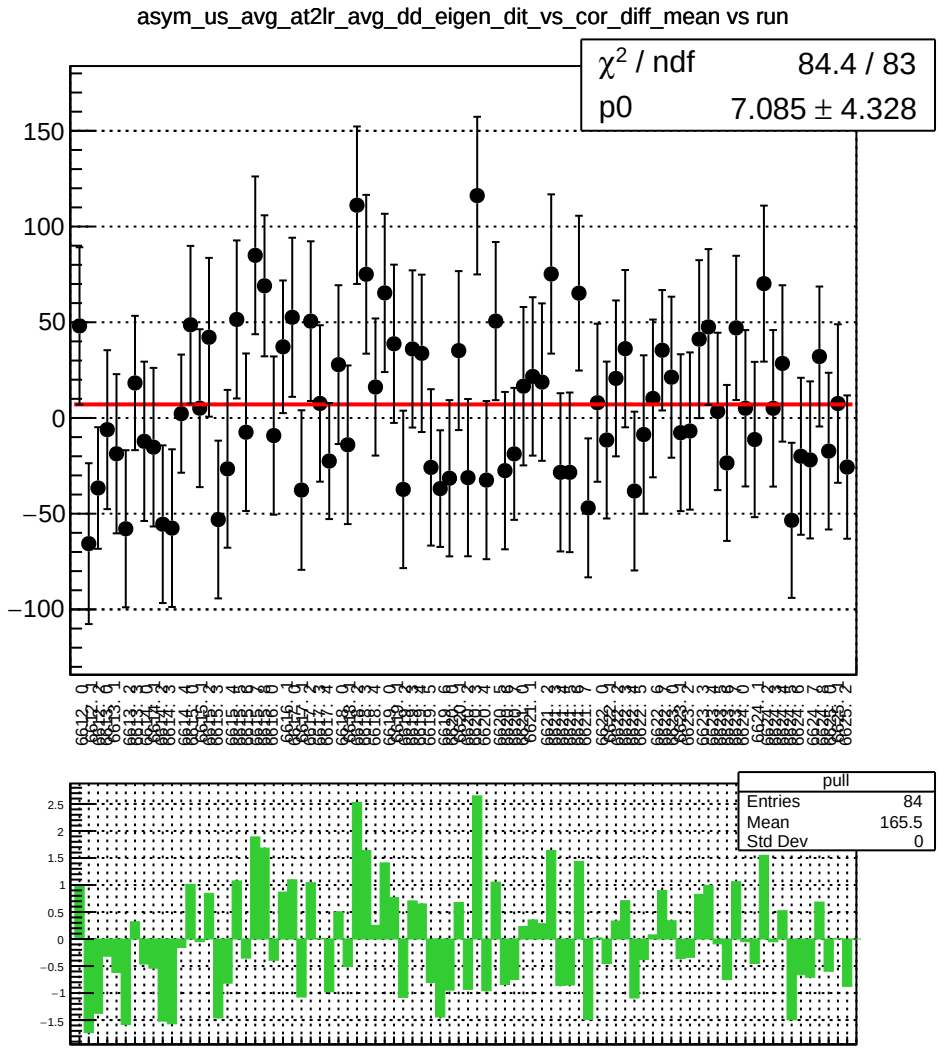

pull1D
Entries 84
Mean 0.009978
Std Dev 1.002
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

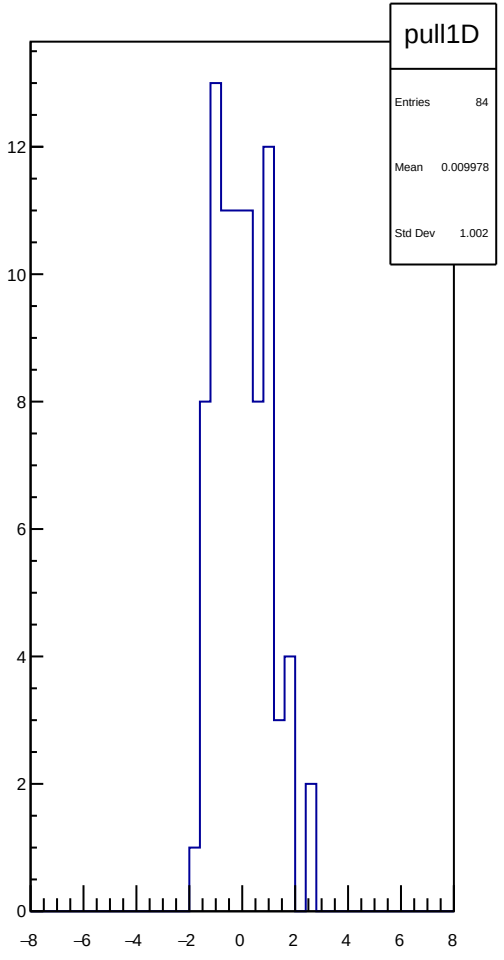

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 120 / 83
p0 3910 ± 3.06
4050
4000
3950
3900
3850
3800

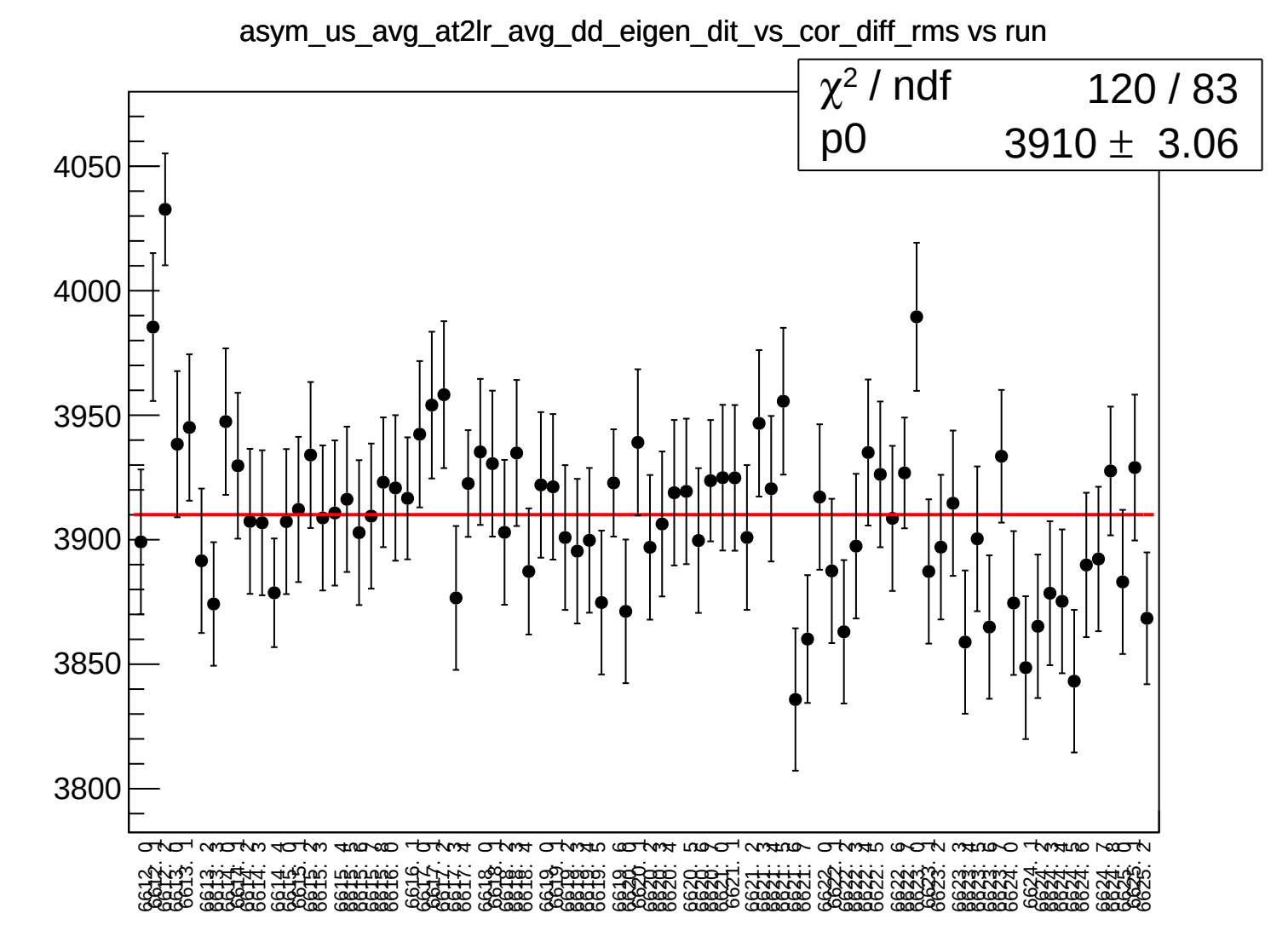

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 72.28 / 83
p0 −2.608e−05 ± 2.604e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 84
Mean 103.9
Std Dev 0
2
1
0
−1
−2

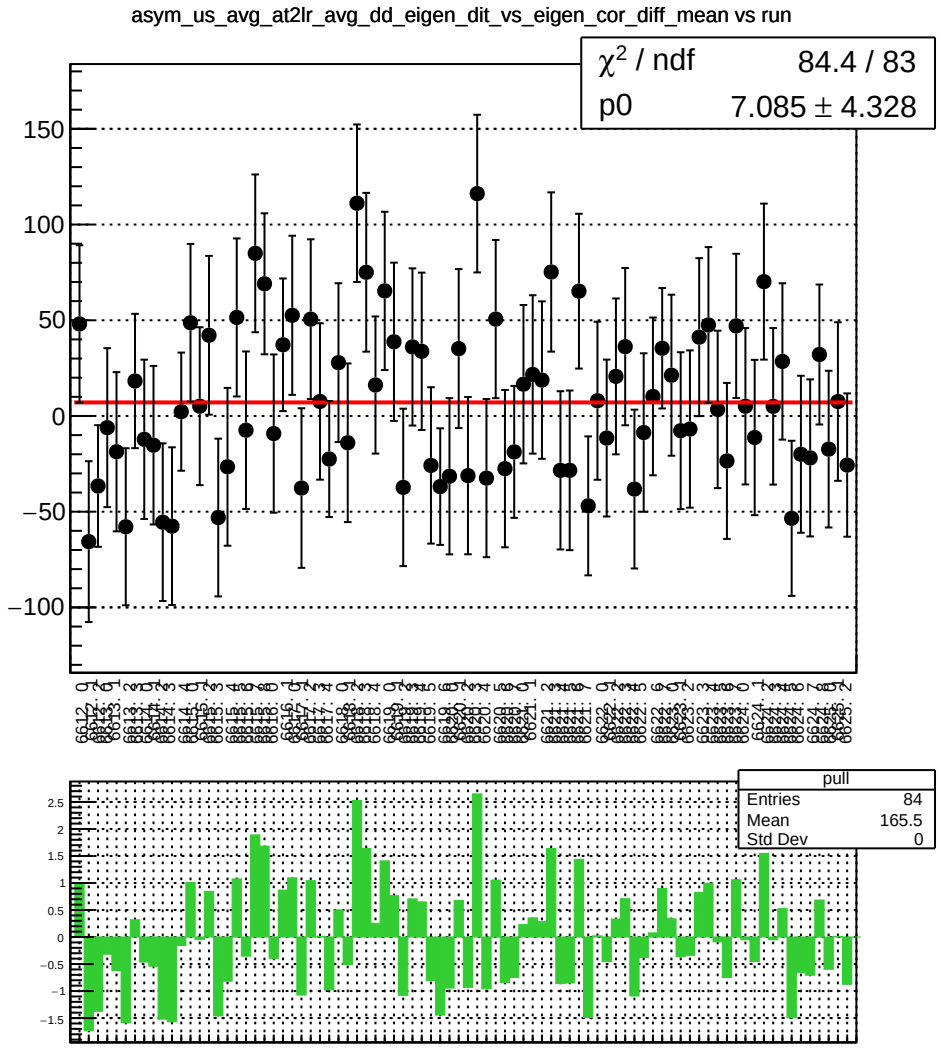

pull1D
Entries 84
Mean 0.01921
Std Dev 0.9274
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

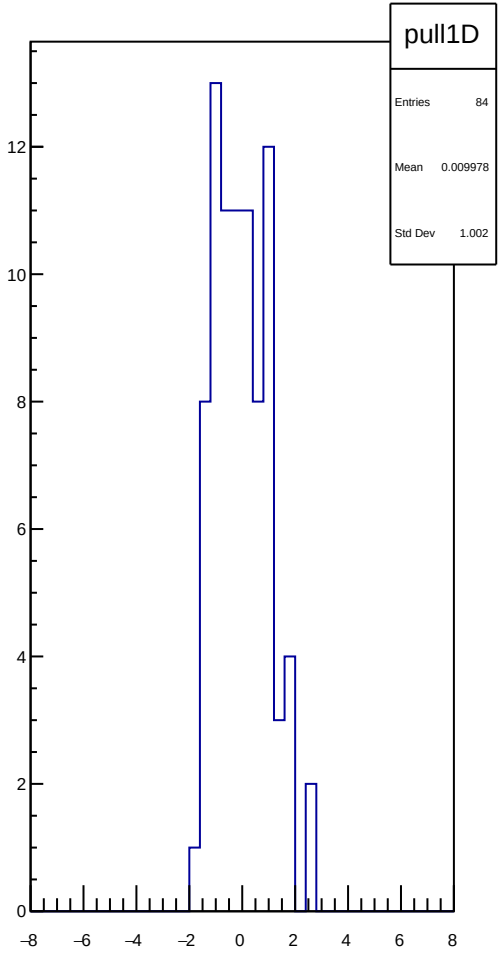

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9884 / 83
p0 0.02346 ± 1.842e−05
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.02

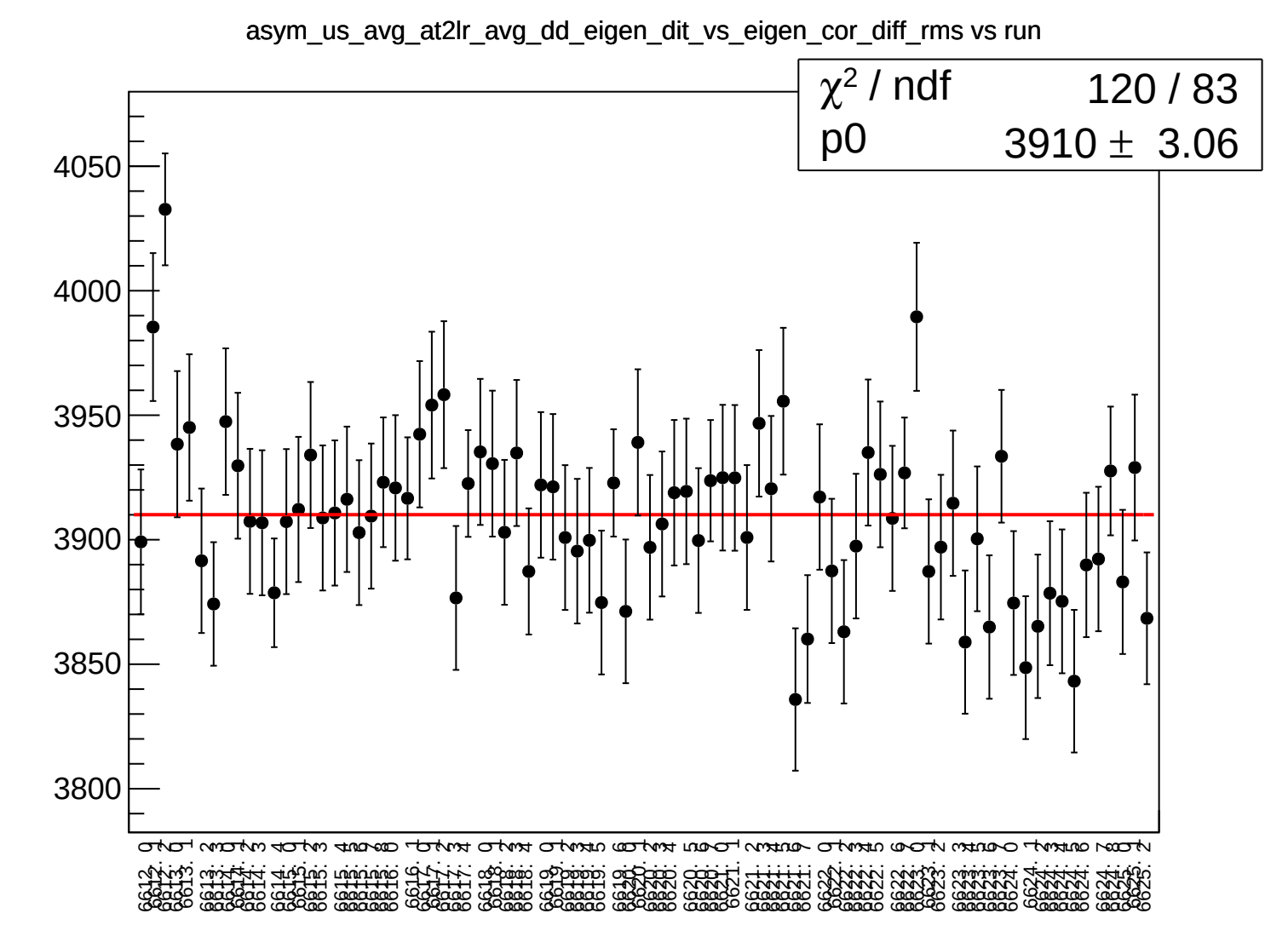

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.4 / 83
p0 7.085 ± 4.328
150
100
50
0
−50
−100
pull
Entries 84
Mean 165.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

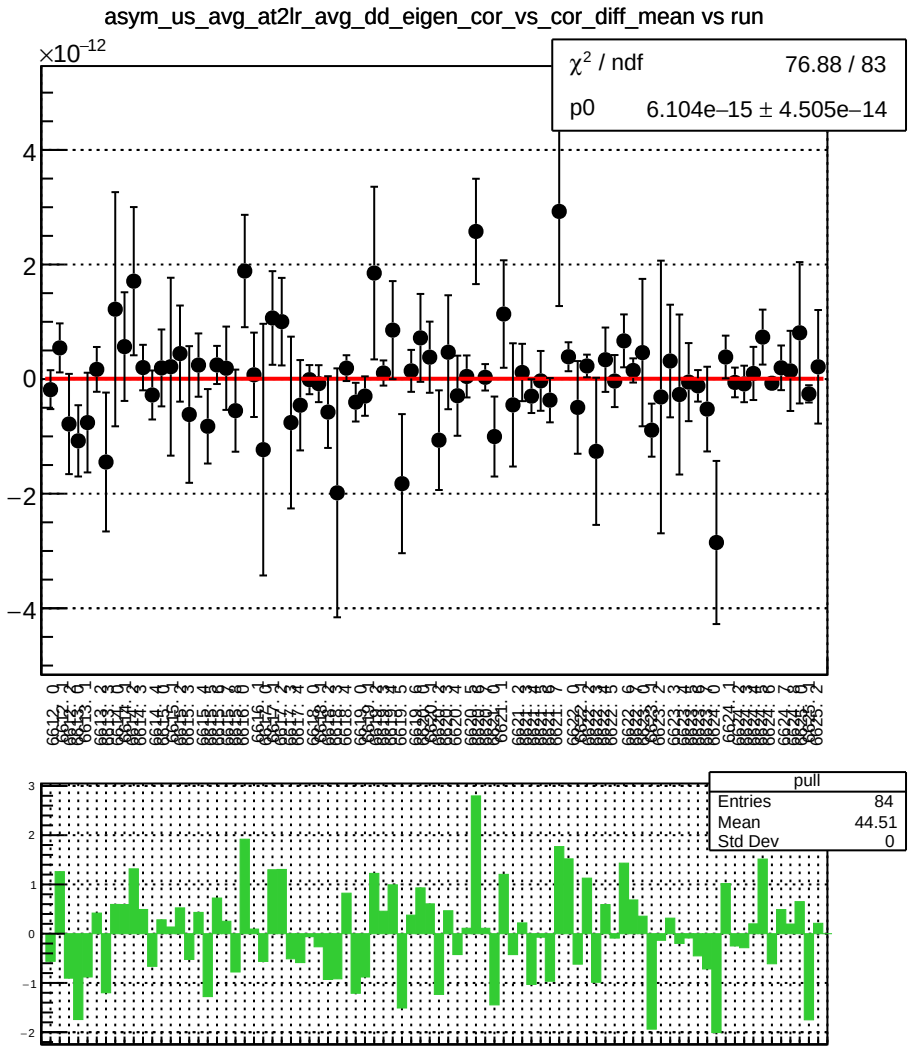

pull1D
Entries 84
Mean 0.009978
Std Dev 1.002
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

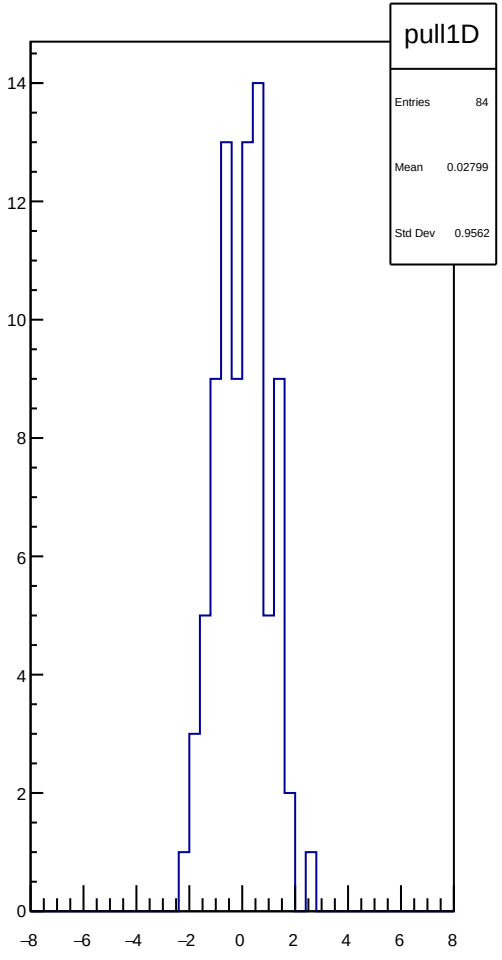

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 120 / 83
p0 3910 ± 3.06
4050
4000
3950
3900
3850
3800

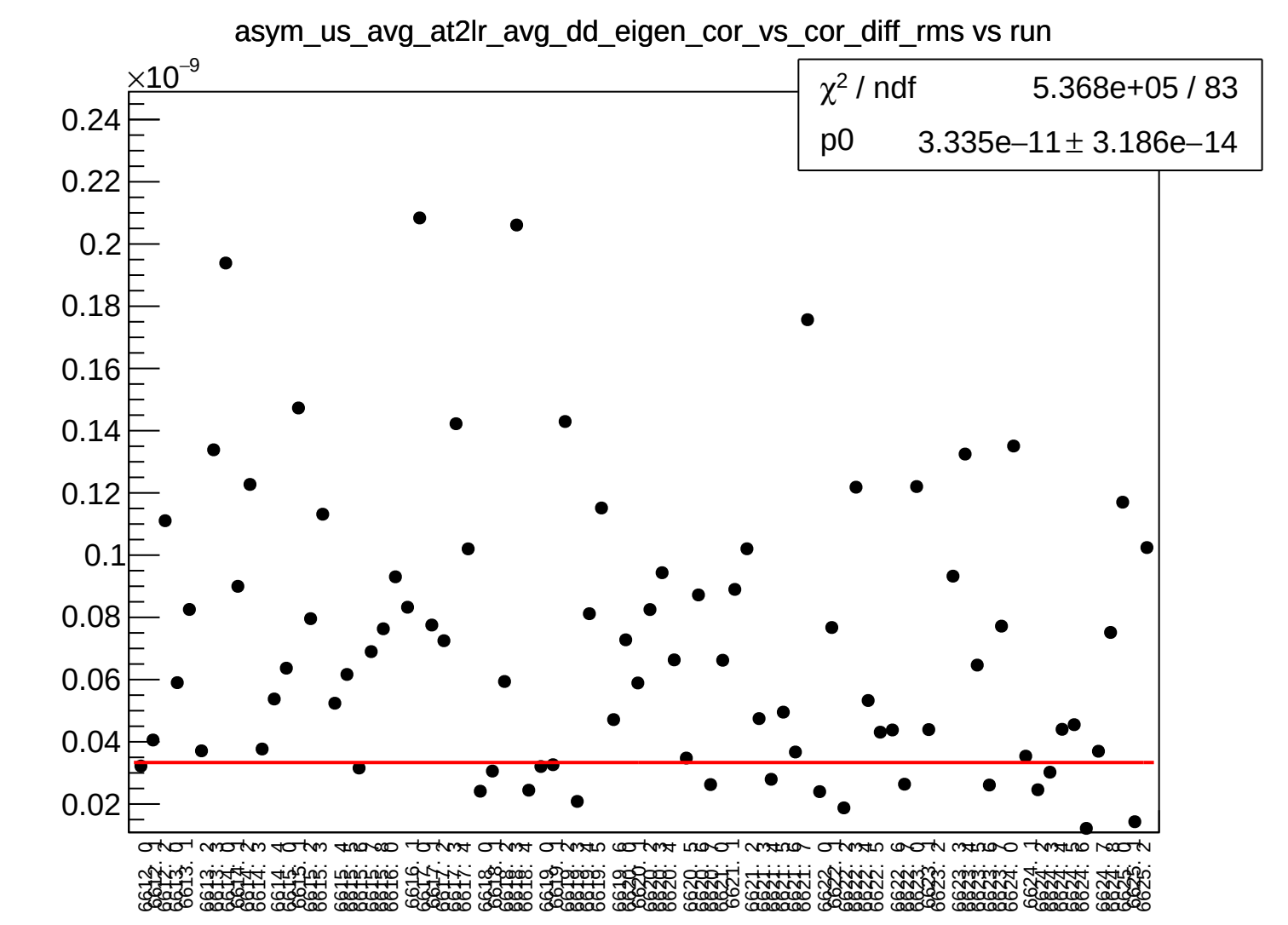

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.4 / 83
p0 7.085 ± 4.328
150
100
50
0
−50
−100
pull
Entries 84
Mean 165.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

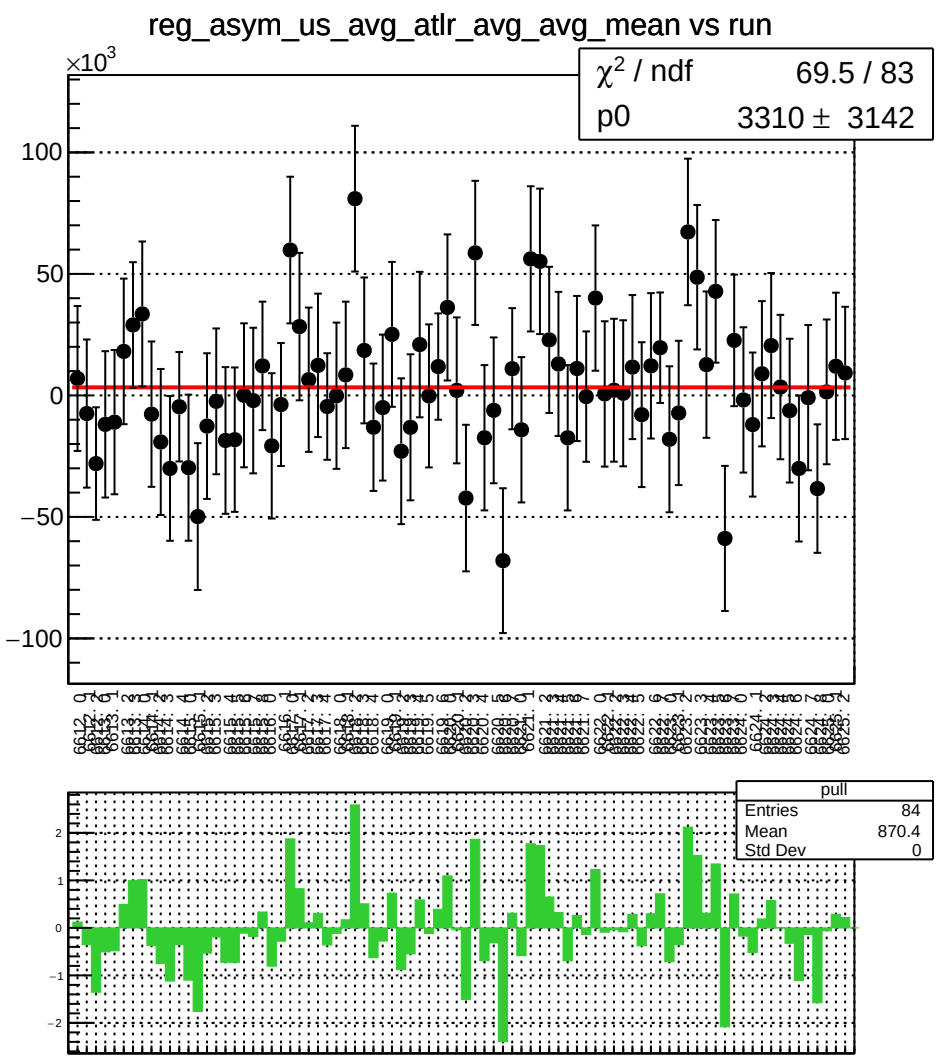

pull1D
Entries 84
Mean 0.009978
Std Dev 1.002
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

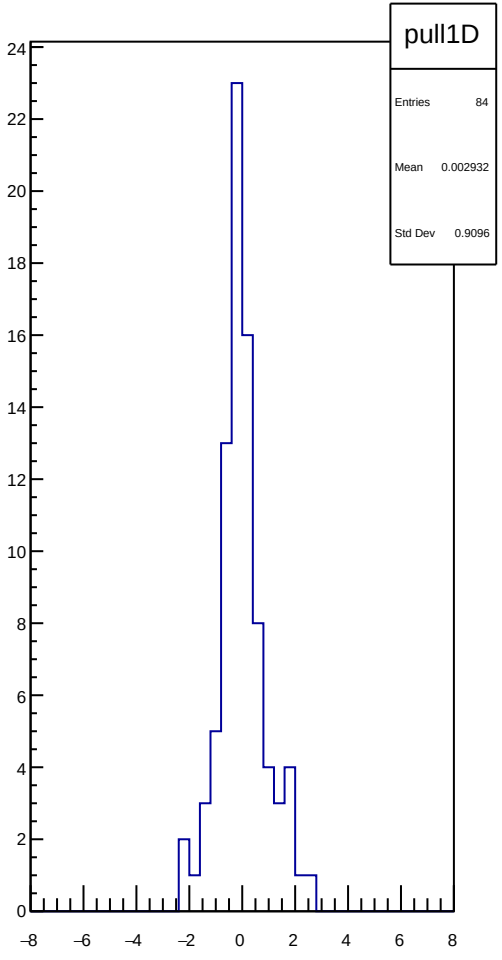

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 120 / 83
p0 3910 ± 3.06
4050
4000
3950
3900
3850
3800

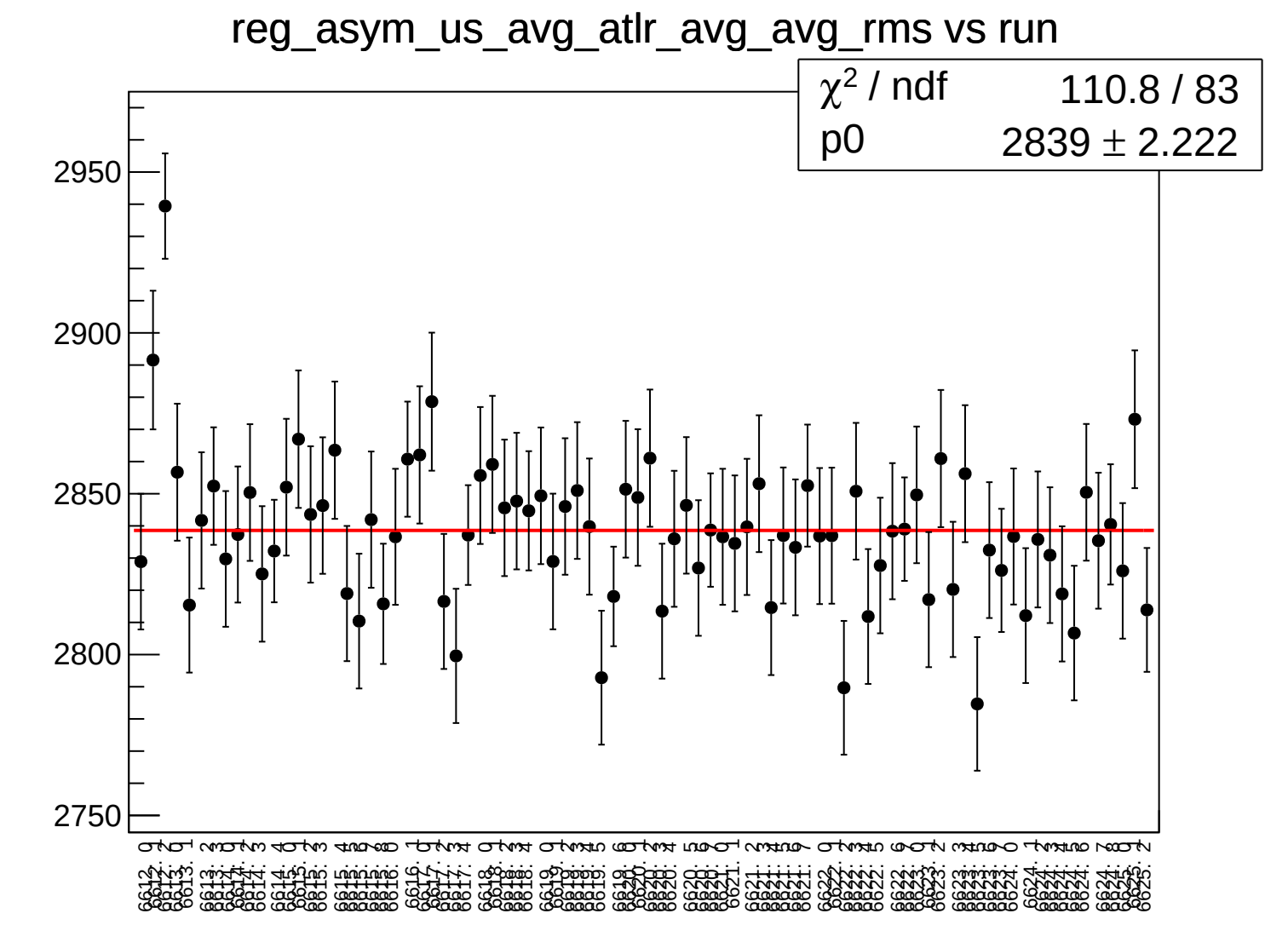

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.88 / 83
p0 6.104e−15 ± 4.505e−14
pull
Entries 84
Mean 44.51
Std Dev 0

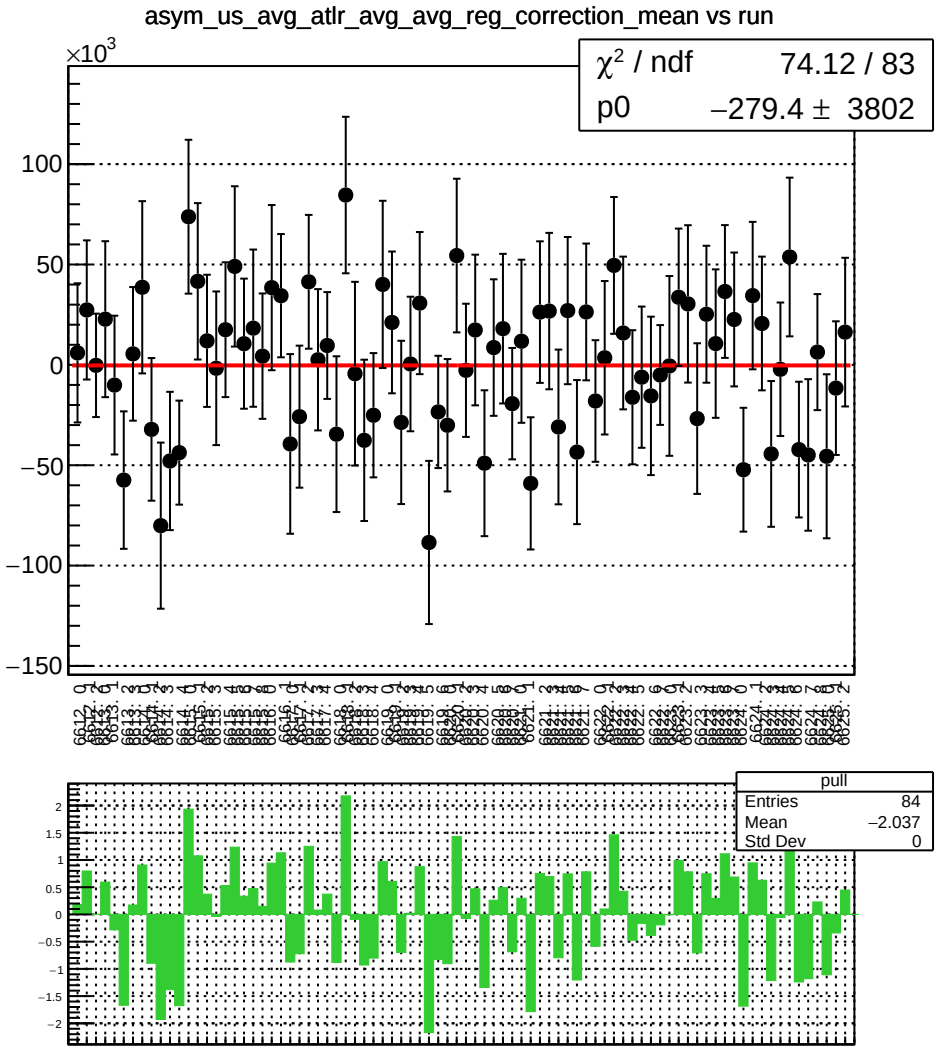

pull1D
Entries 84
Mean 0.02799
Std Dev 0.9562

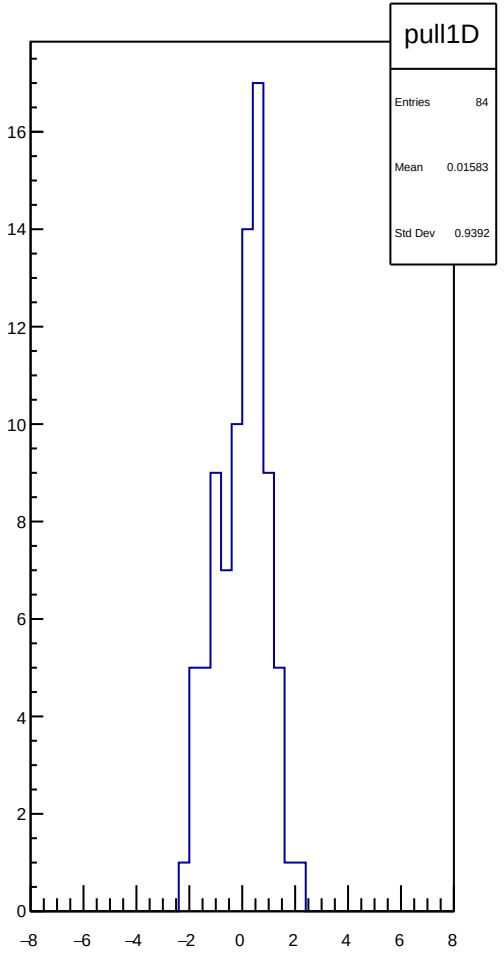

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.368e+05 / 83
p0 3.335e−11 ± 3.186e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

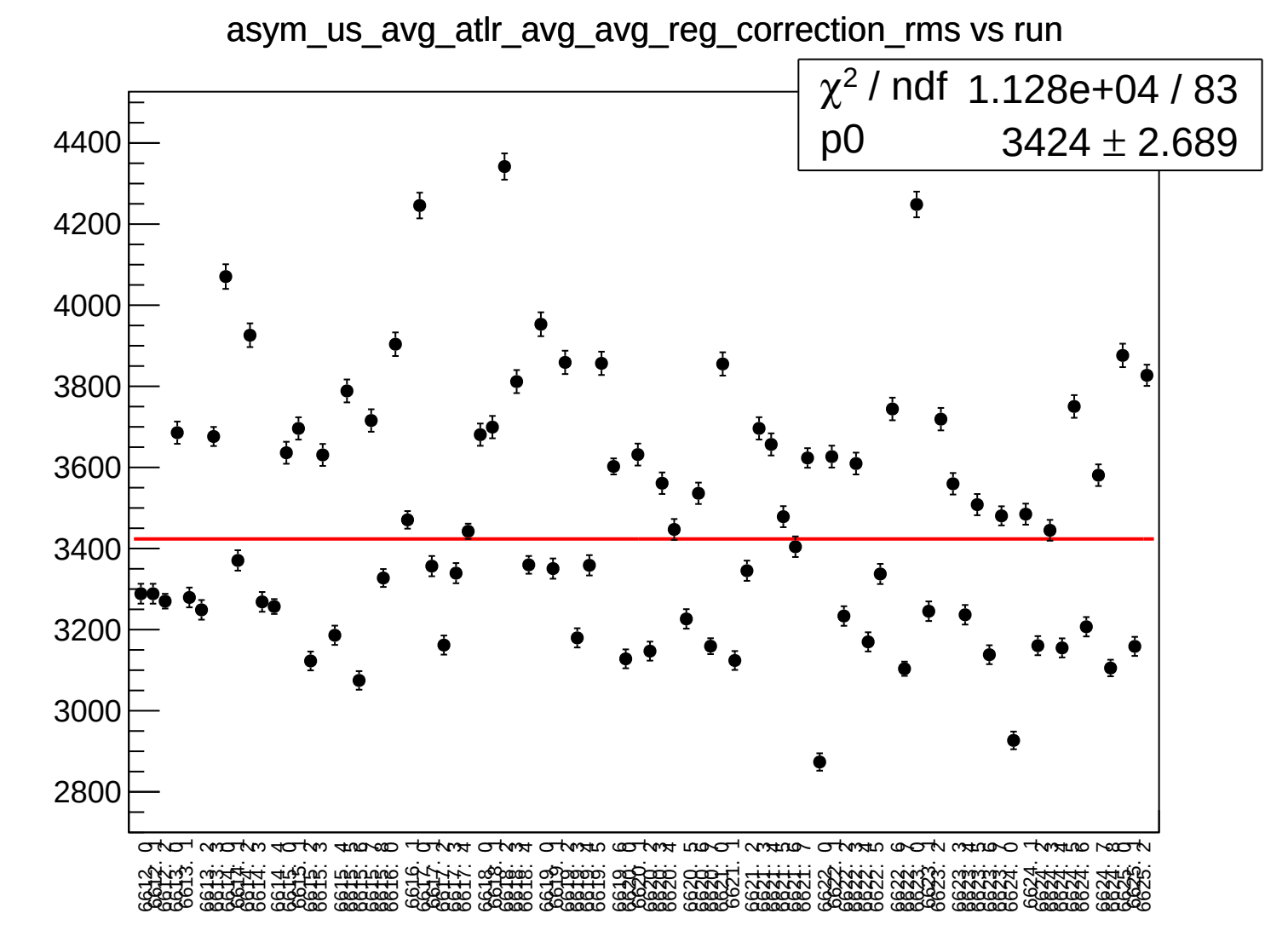

reg_asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ^2 / ndf 69.5 / 83
p0 3310 ± 3142
100
50
0
−50
−100
pull
Entries 84
Mean 870.4
Std Dev 0
2
1
0
−1
−2

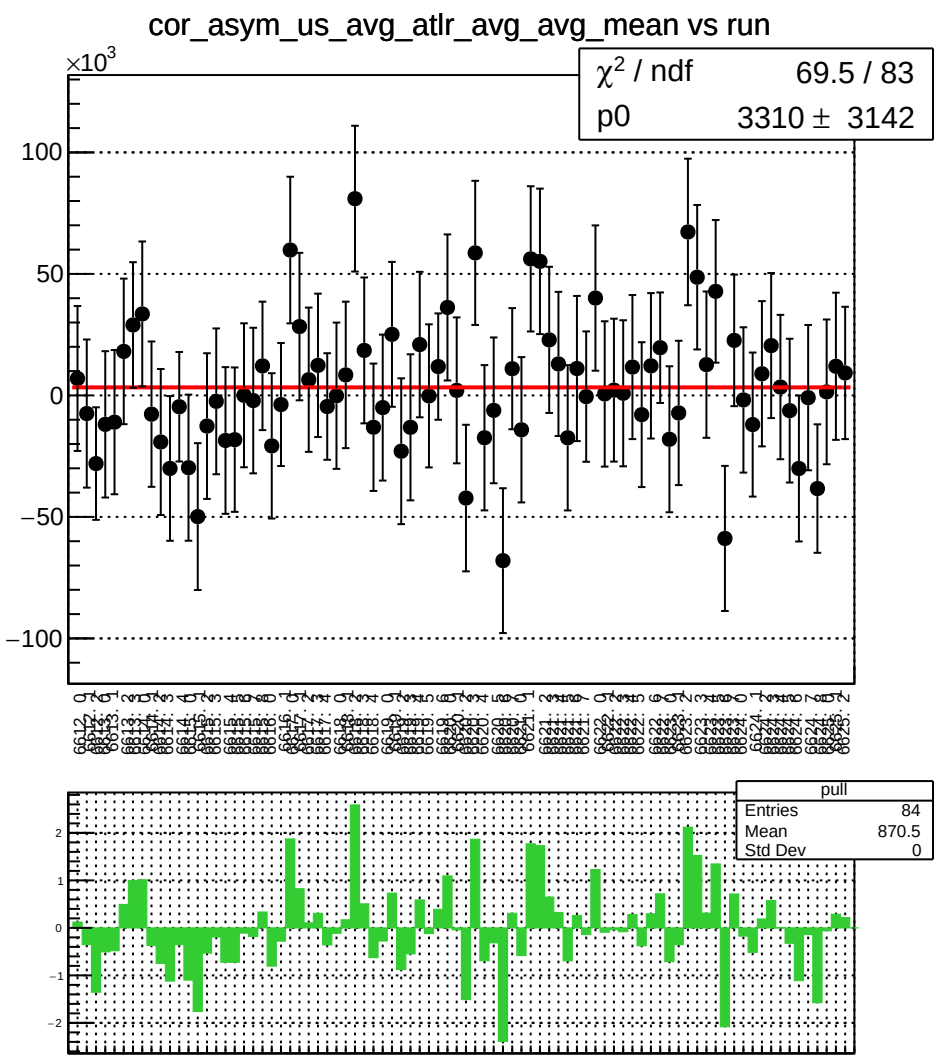

pull1D
Entries 84
Mean 0.002932
Std Dev 0.9096
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

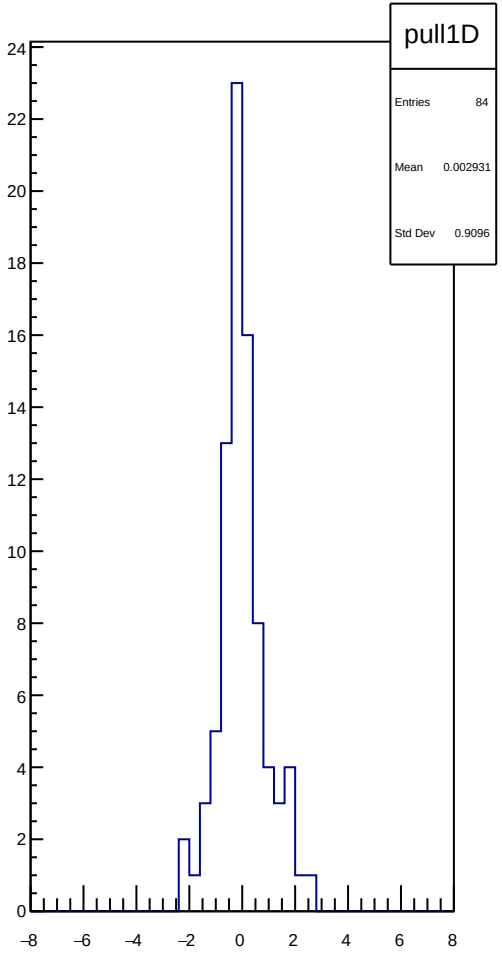

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 110.8 / 83
p0 2839 ± 2.222
2950
2900
2850
2800
2750

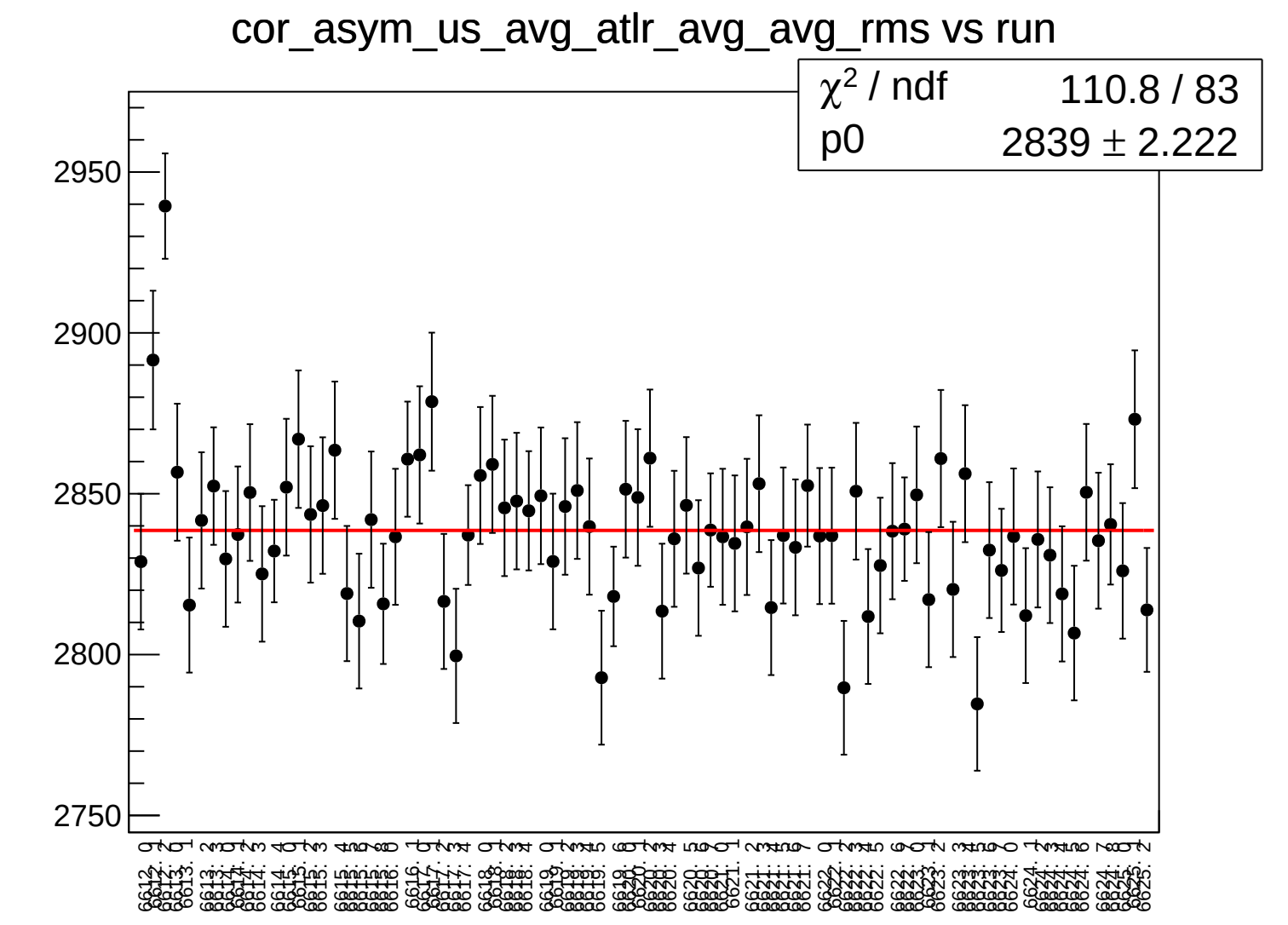

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 74.12 / 83
p0 −279.4 ± 3802
100
50
0
−50
−100
−150
pull
Entries 84
Mean −2.037
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

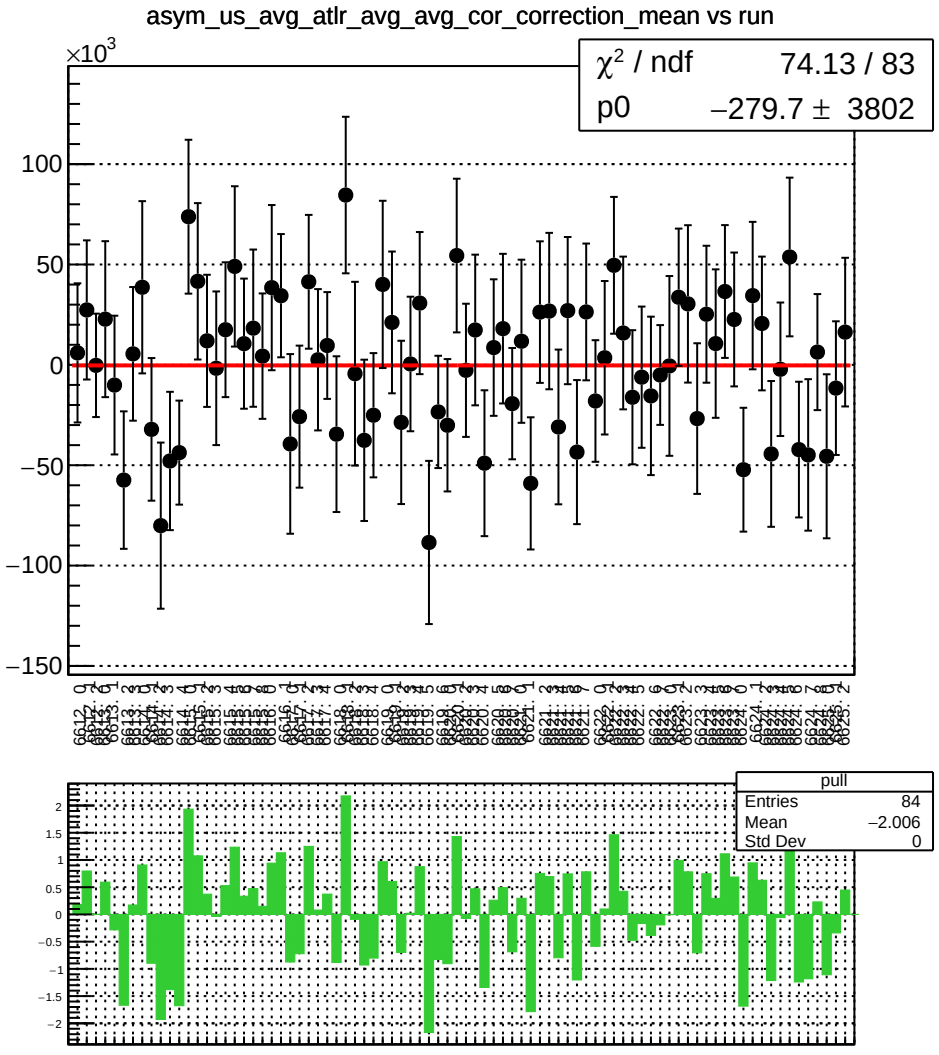

pull1D
Entries 84
Mean 0.01583
Std Dev 0.9392
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

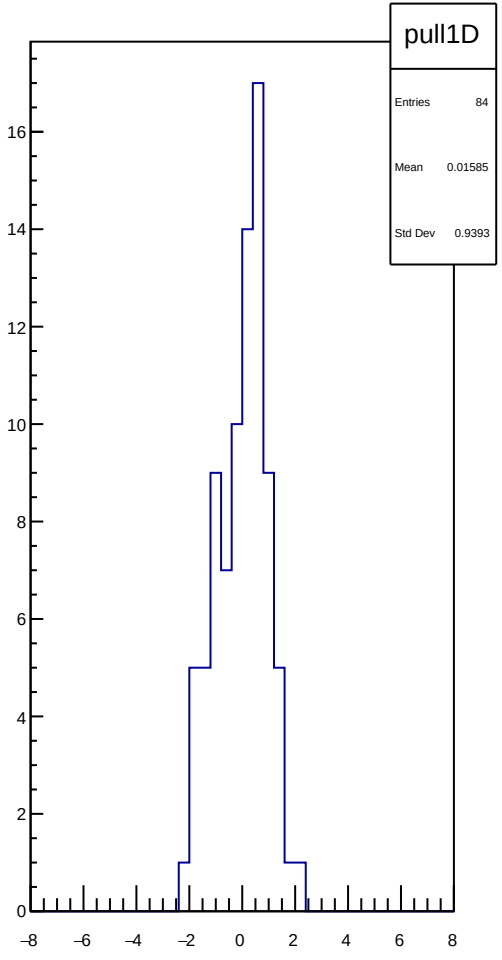

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.128e+04 / 83
p0 3424 ± 2.689
4400
4200
4000
3800
3600
3400
3200
3000
2800

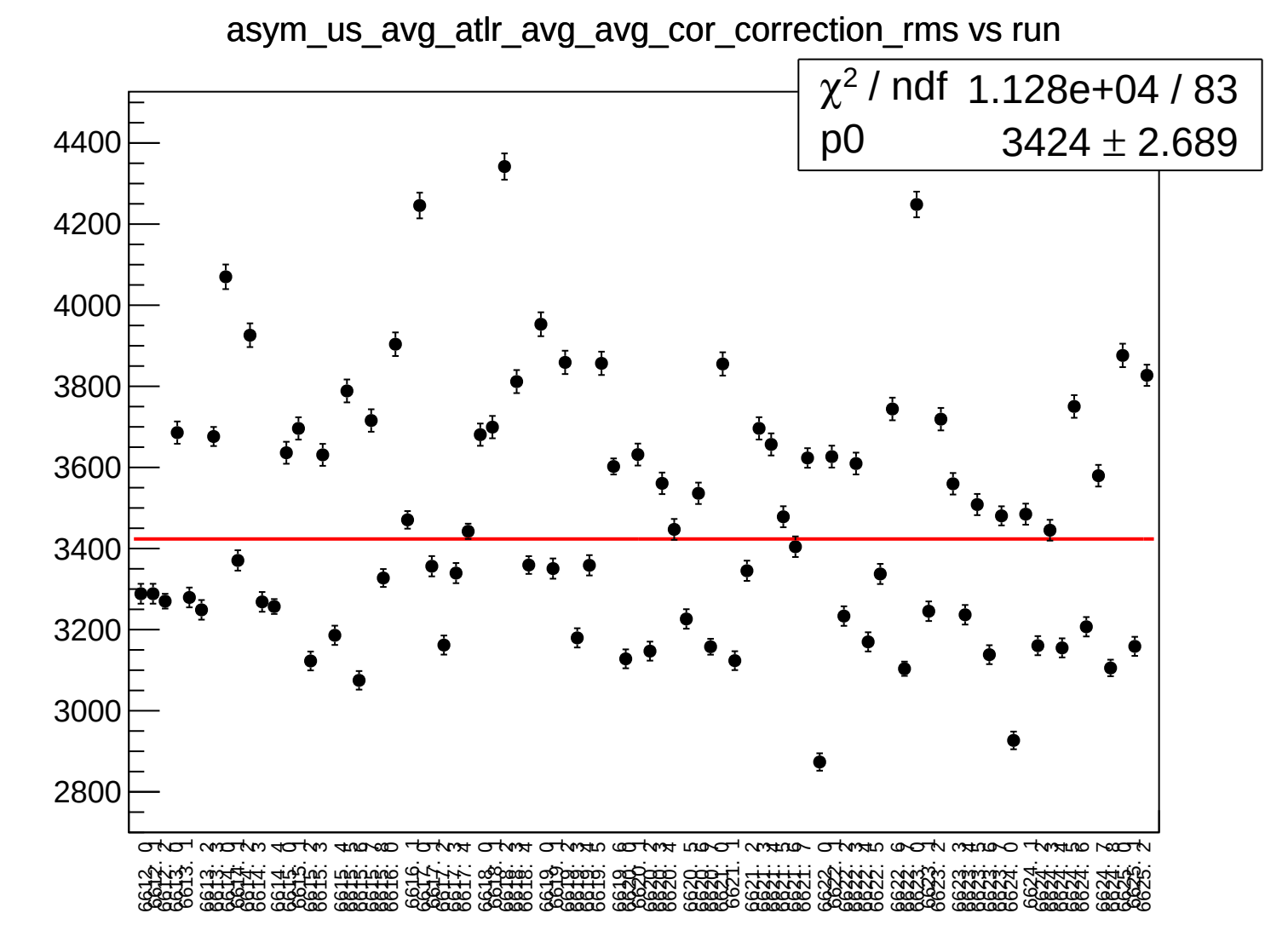

cor_asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 69.5 / 83
p0 3310 ± 3142
100
50
0
−50
−100
pull
Entries 84
Mean 870.5
Std Dev 0
2
1
0
−1
−2

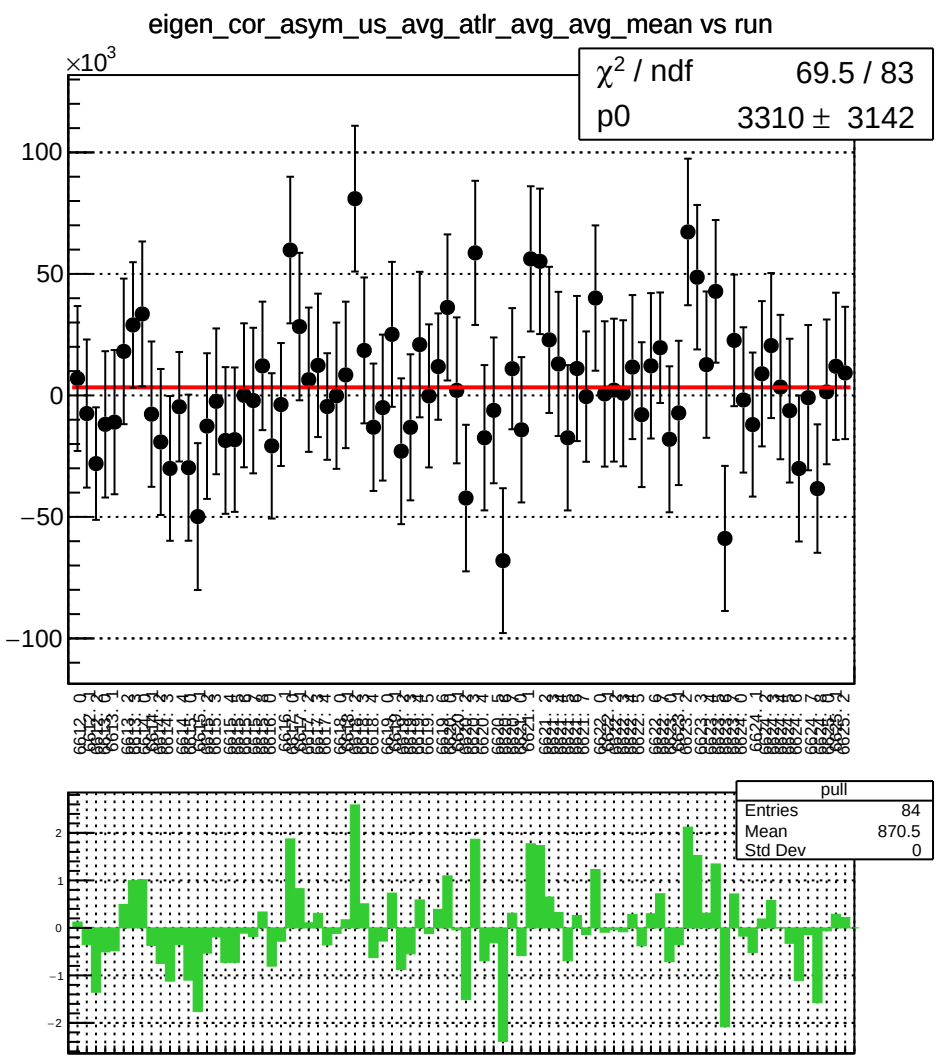

pull1D
Entries 84
Mean 0.002931
Std Dev 0.9096
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

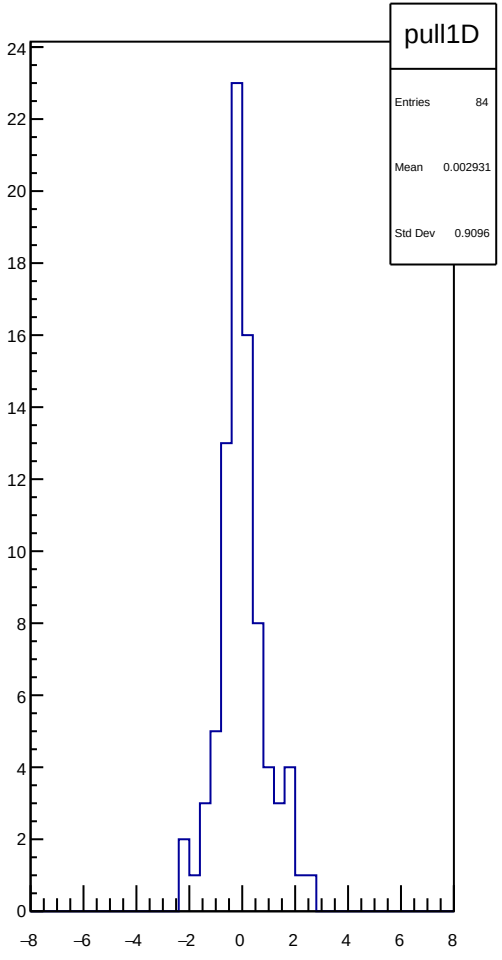

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 110.8 / 83
p0 2839 ± 2.222
2950
2900
2850
2800
2750

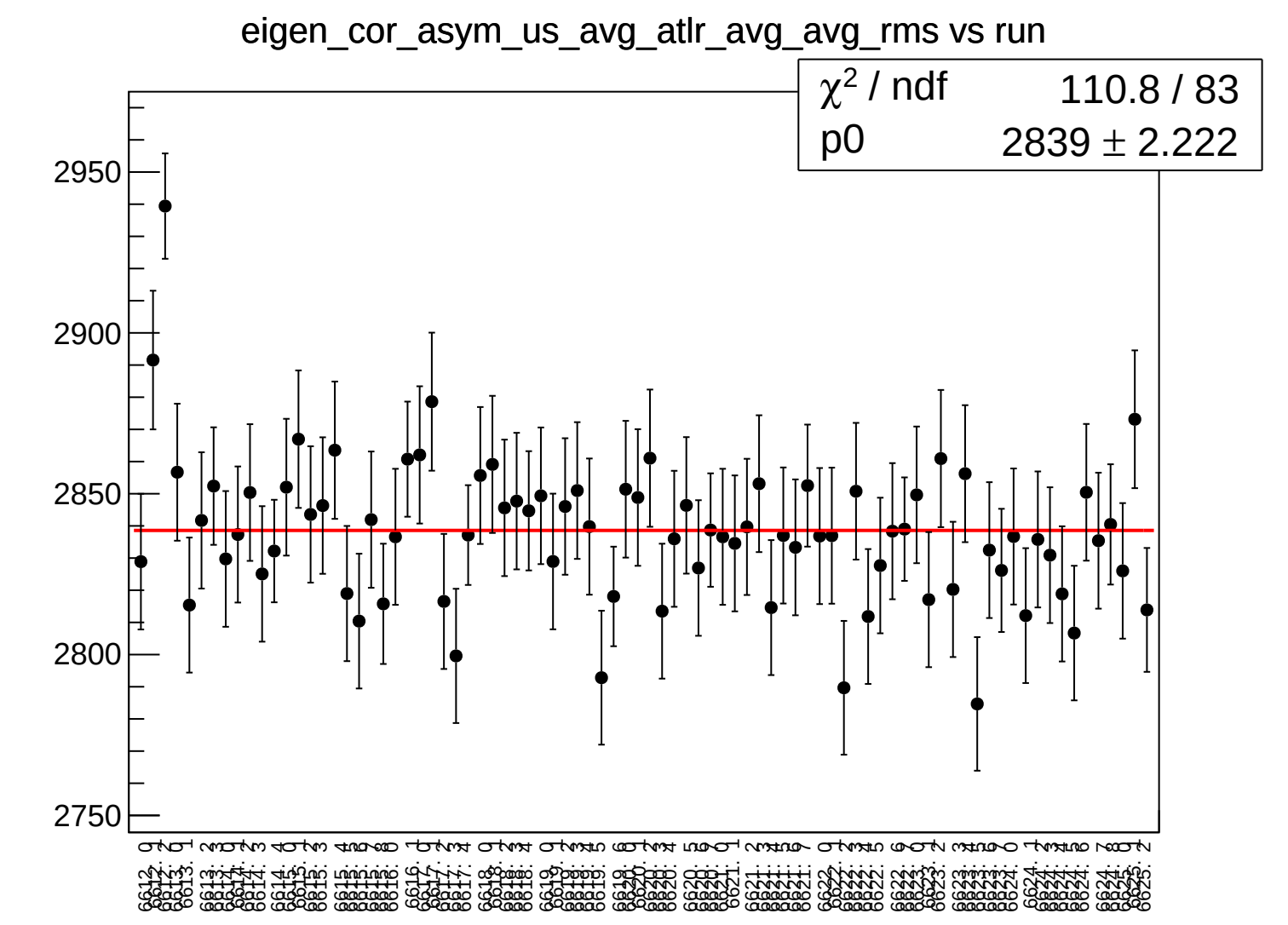

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
χ² / ndf 74.13 / 83
p0 −279.7 ± 3802
×10³
pull
Entries 84
Mean −2.006
Std Dev 0

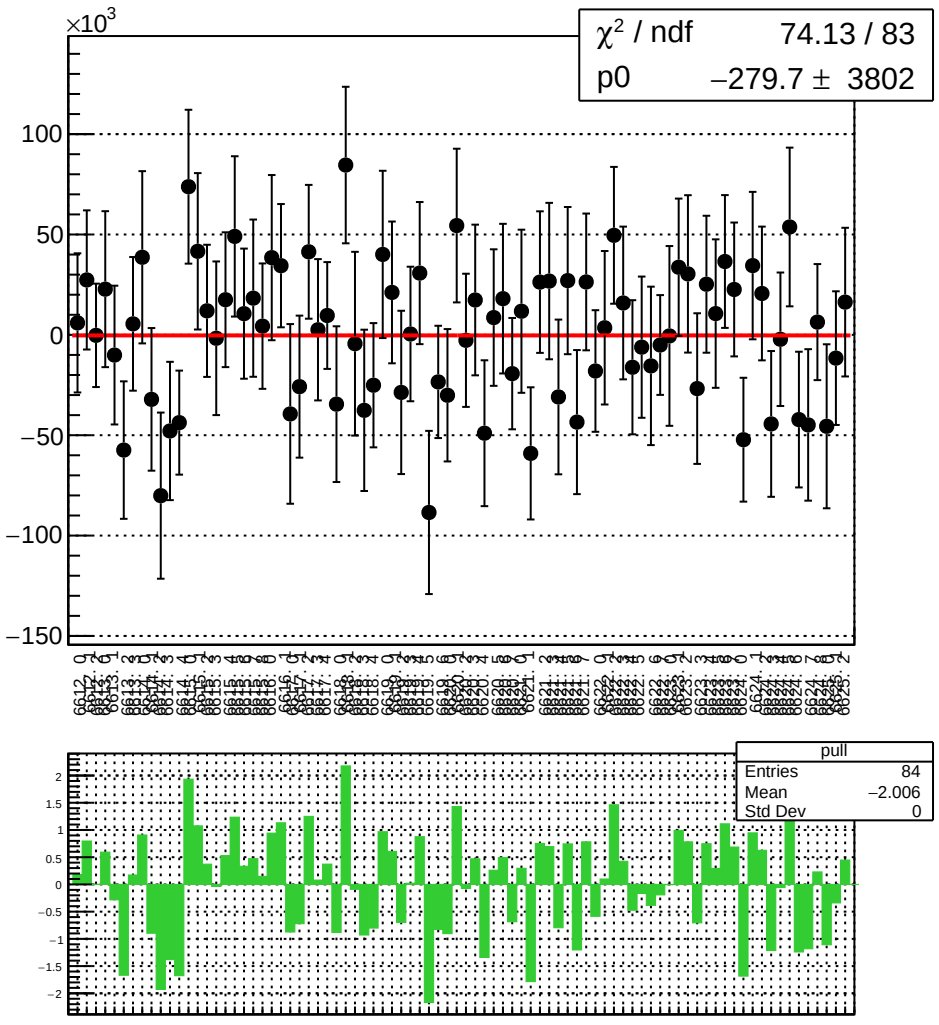

pull1D
Entries 84
Mean 0.01585
Std Dev 0.9393

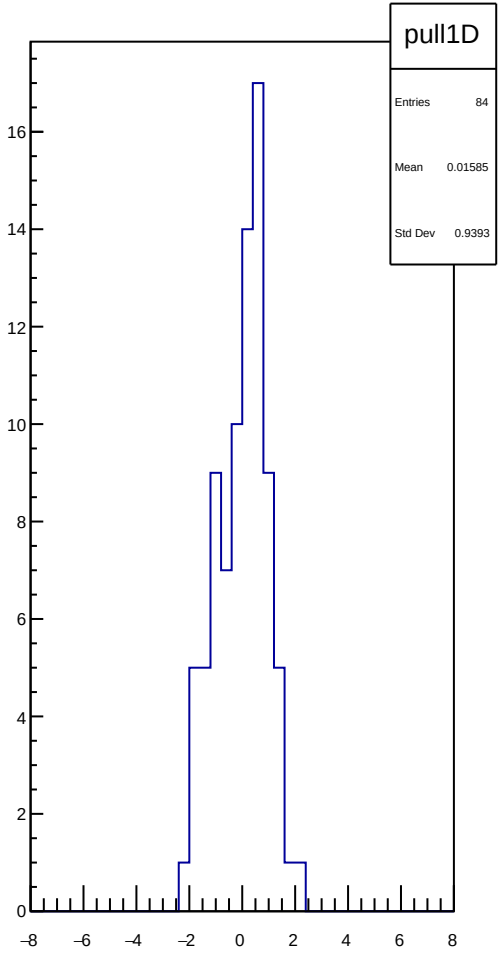

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.128e+04 / 83
p0 3424 ± 2.689
4400
4200
4000
3800
3600
3400
3200
3000
2800

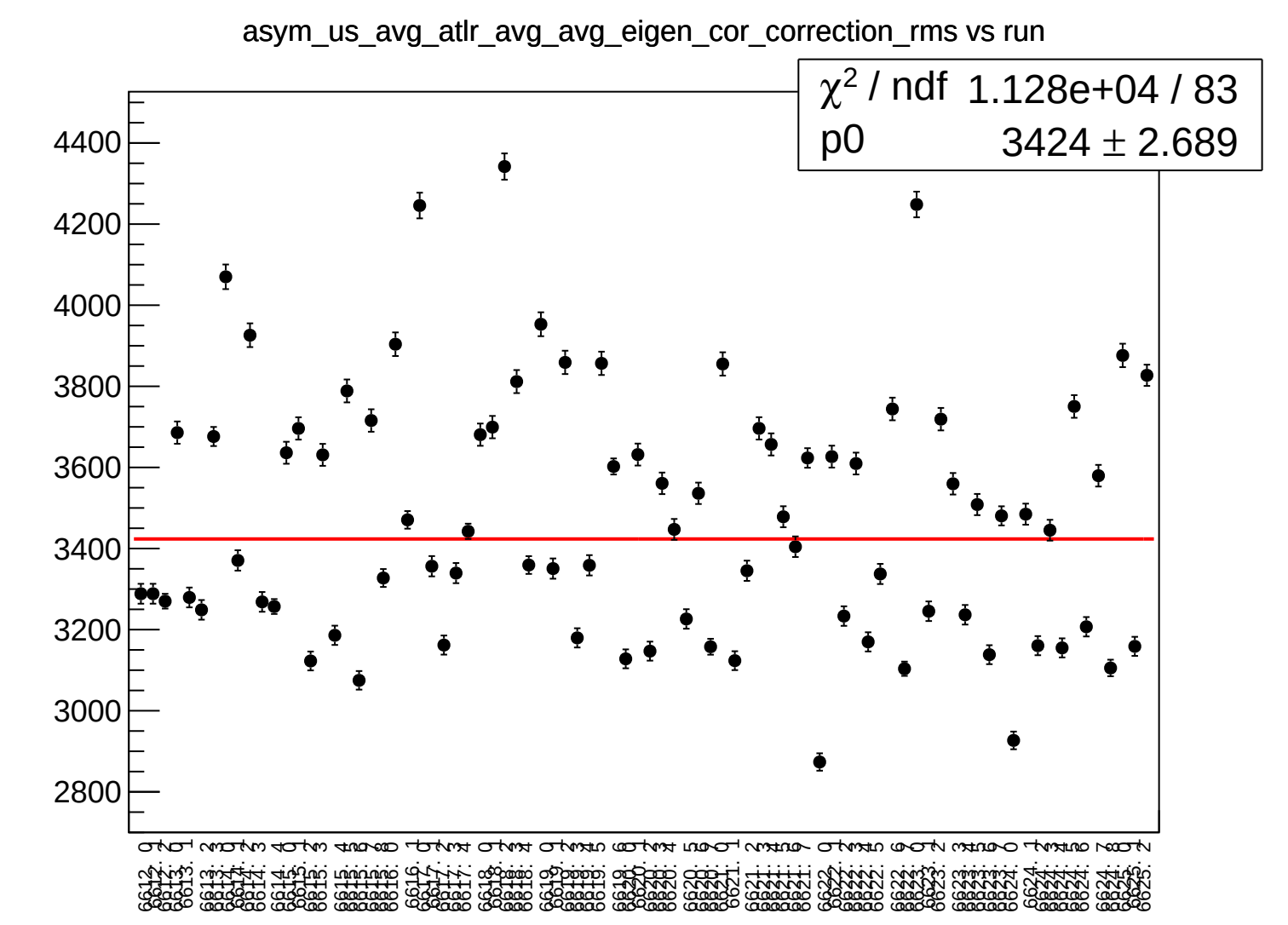

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 69.5 / 83
p0 3310 ± 3142
100
50
0
−50
−100
pull
Entries 84
Mean 870.5
Std Dev 0
2
1
0
−1
−2

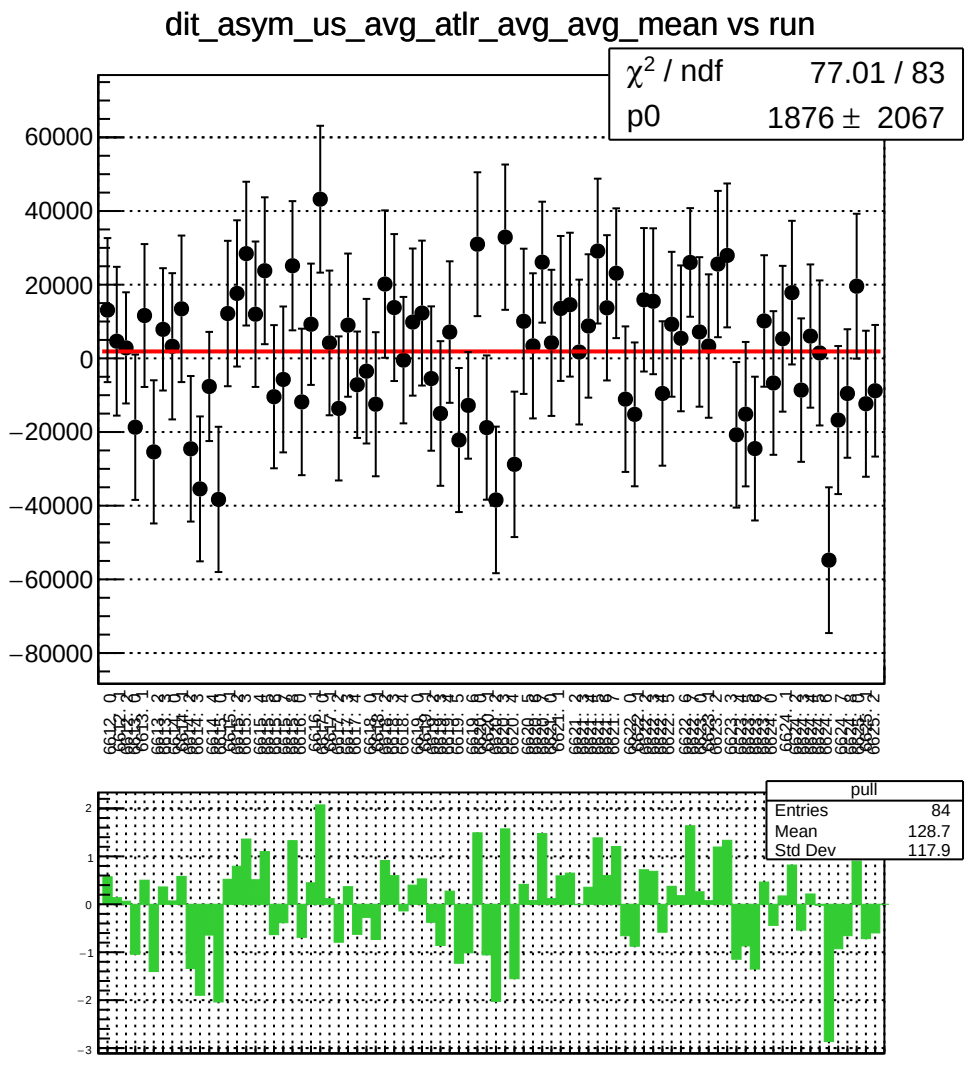

pull1D
Entries 84
Mean 0.002931
Std Dev 0.9096
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

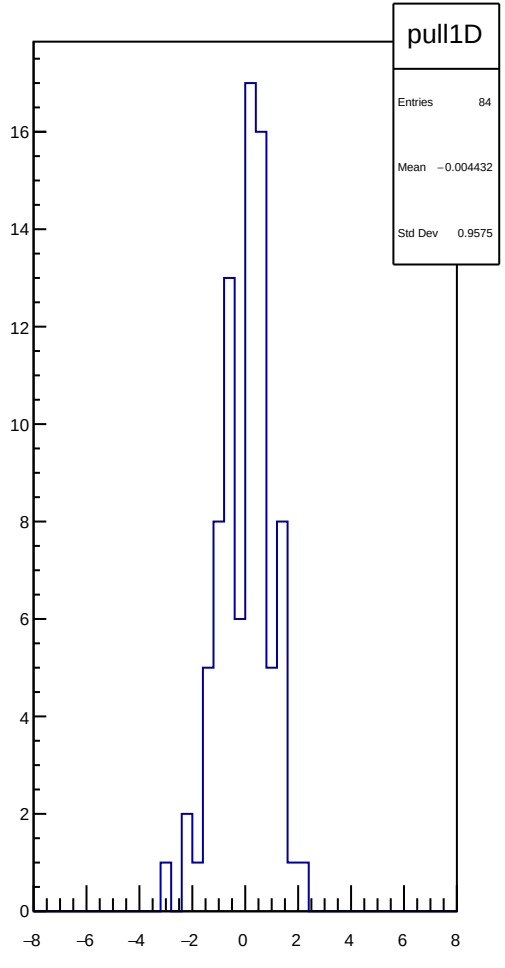

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 110.8 / 83
p0 2839 ± 2.222
2950
2900
2850
2800
2750

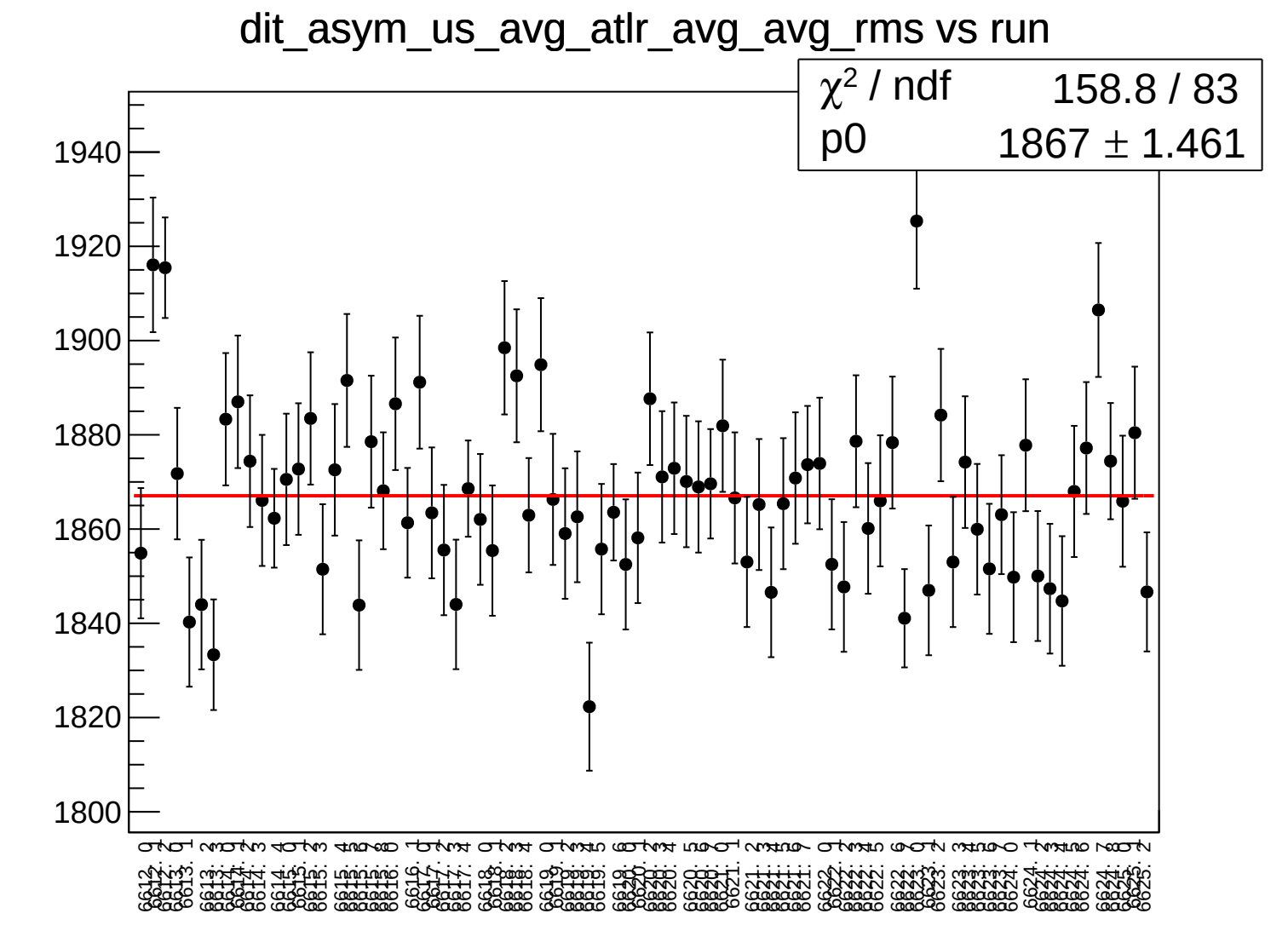

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.13 / 83
p0 −279.7 ± 3802
100
50
0
−50
−100
−150
pull
Entries 84
Mean −2.006
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

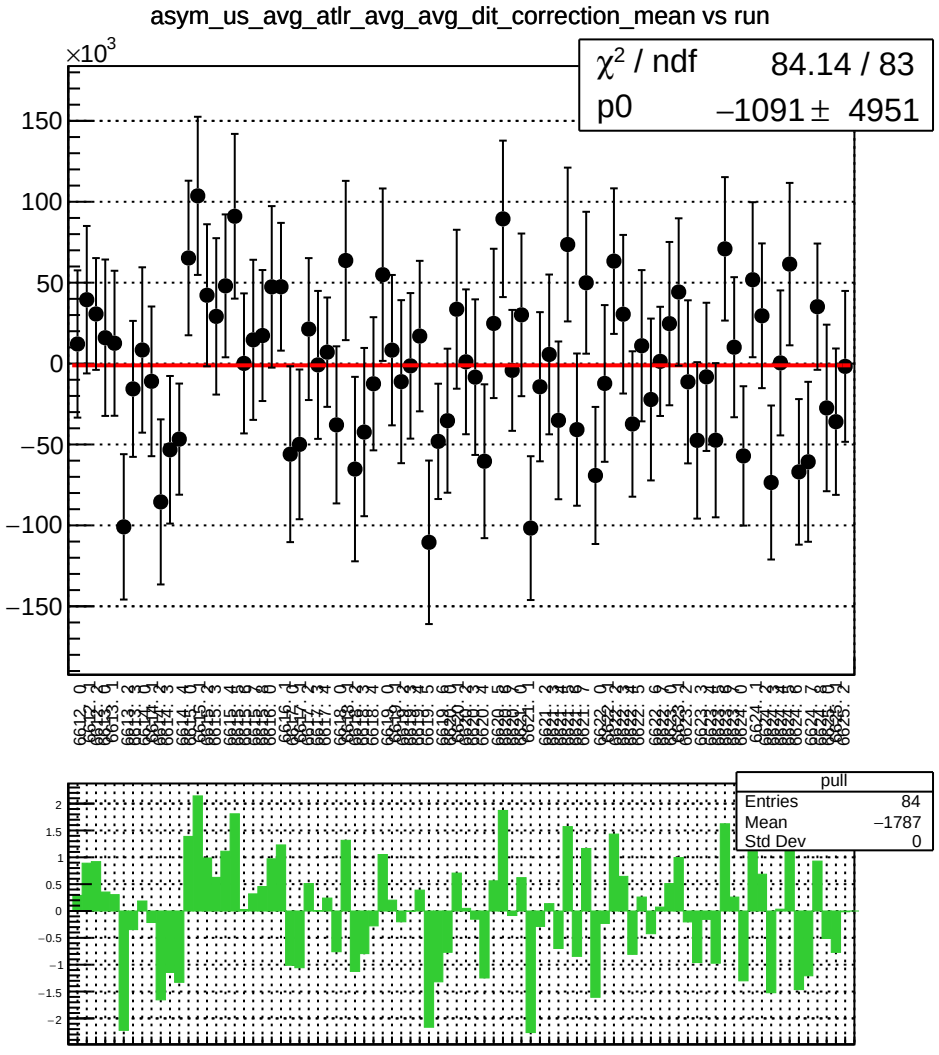

pull1D
Entries 84
Mean 0.01585
Std Dev 0.9393
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

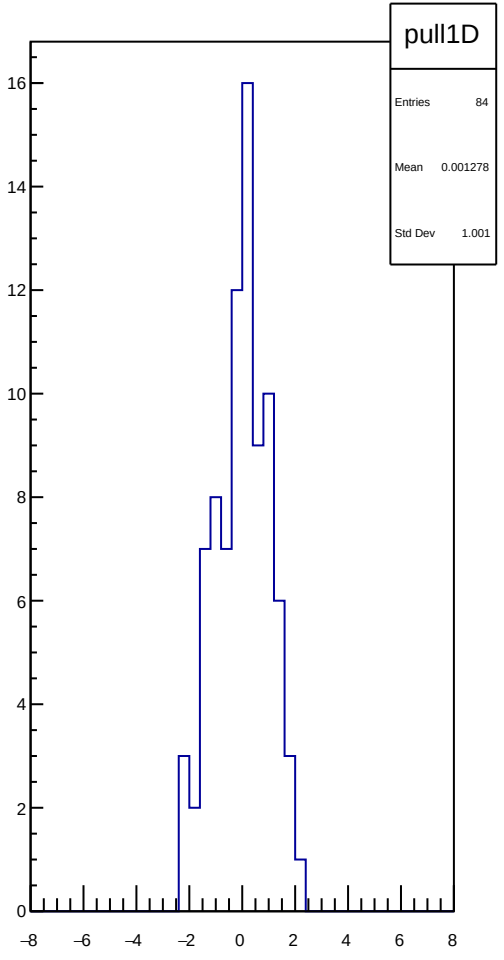

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.128e+04 / 83
p0 3424 ± 2.689
4400
4200
4000
3800
3600
3400
3200
3000
2800

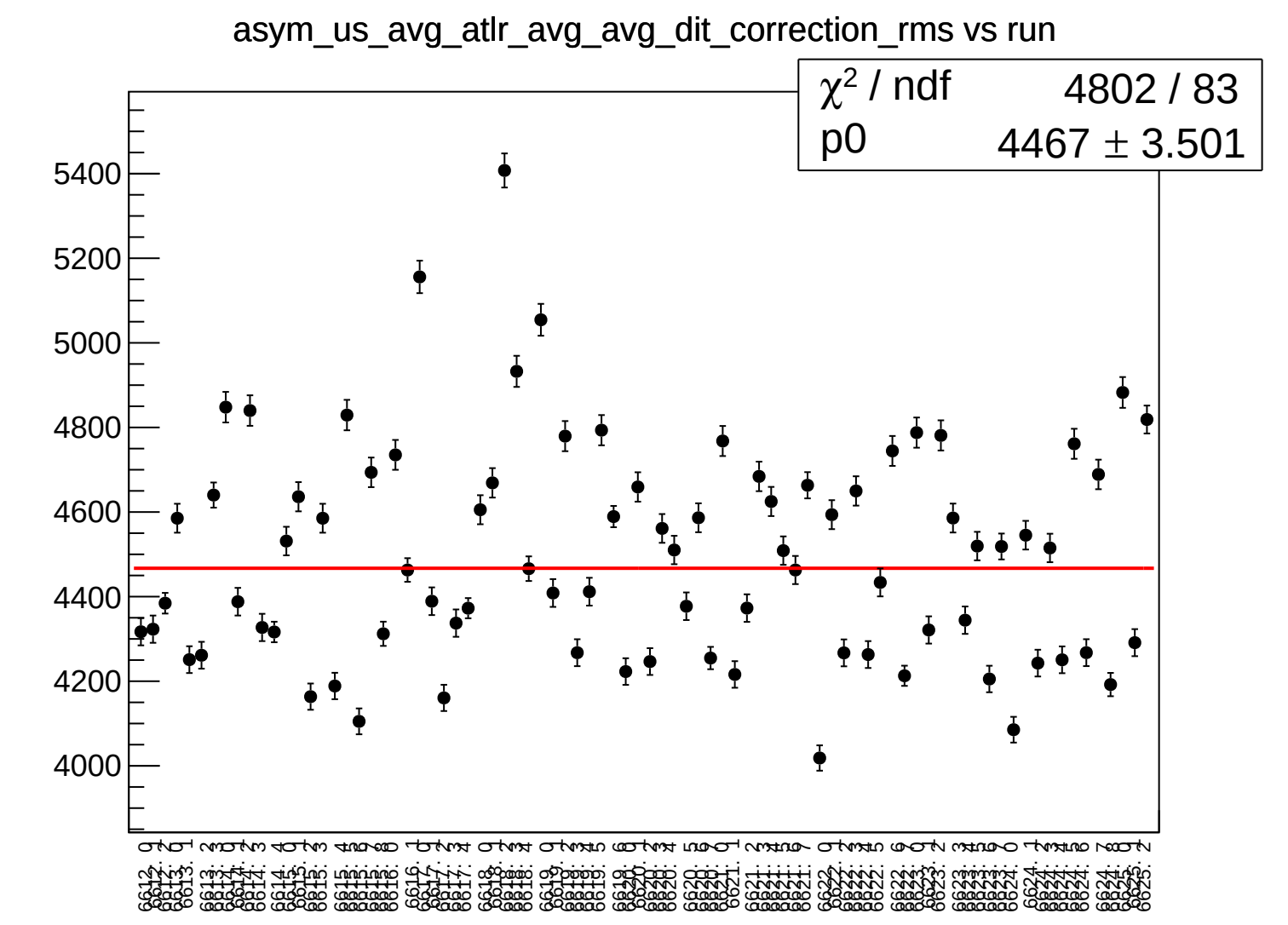

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 77.01 / 83
p0 1876 ± 2067
pull
Entries 84
Mean 128.7
Std Dev 117.9

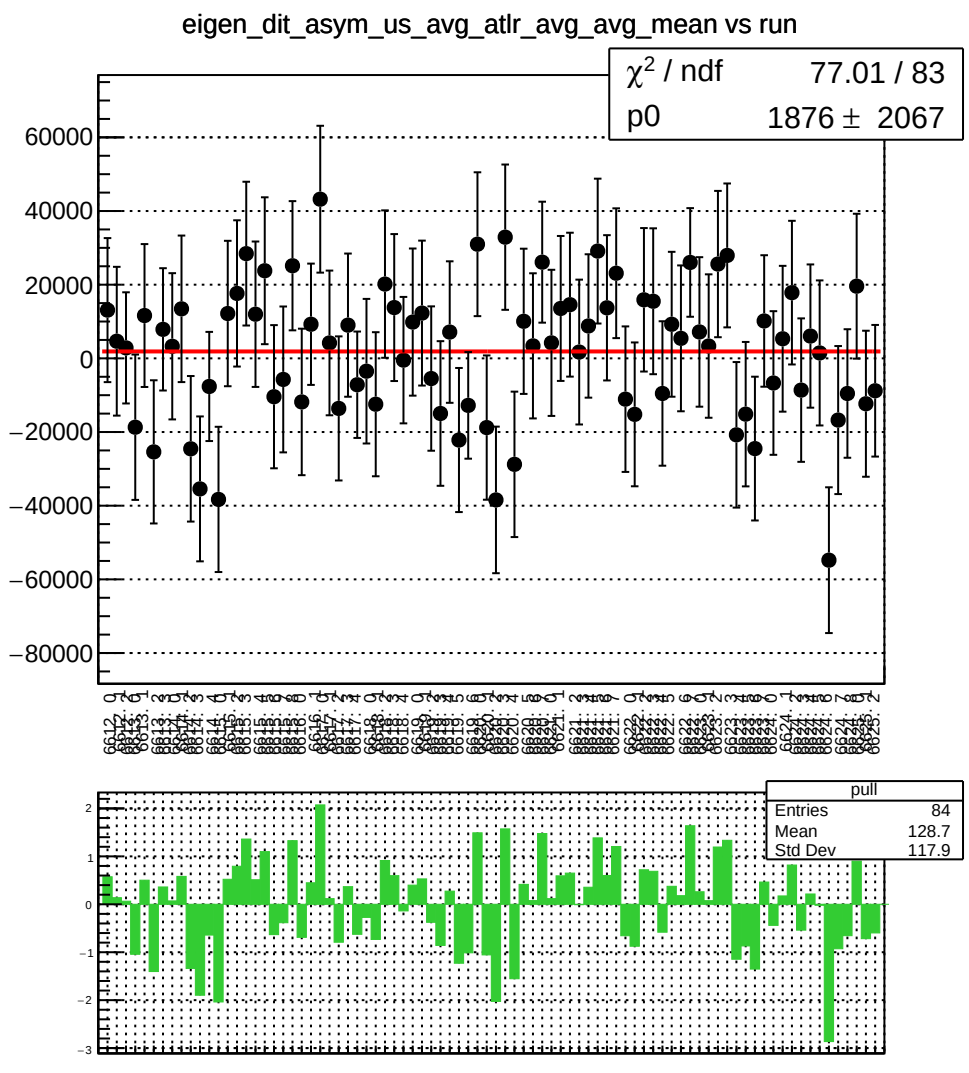

pull1D
Entries 84
Mean −0.004432
Std Dev 0.9575

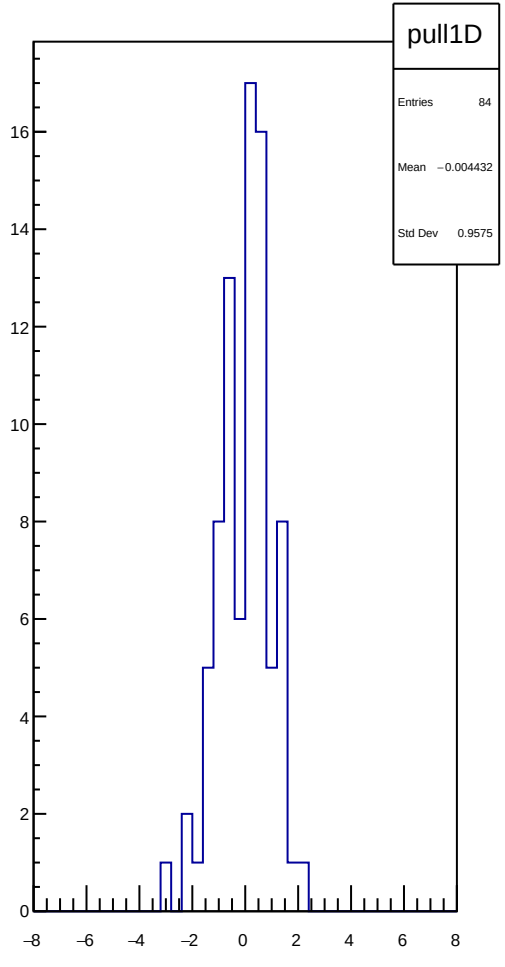

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 158.8 / 83
p0 1867 ± 1.461
1940
1920
1900
1880
1860
1840
1820
1800

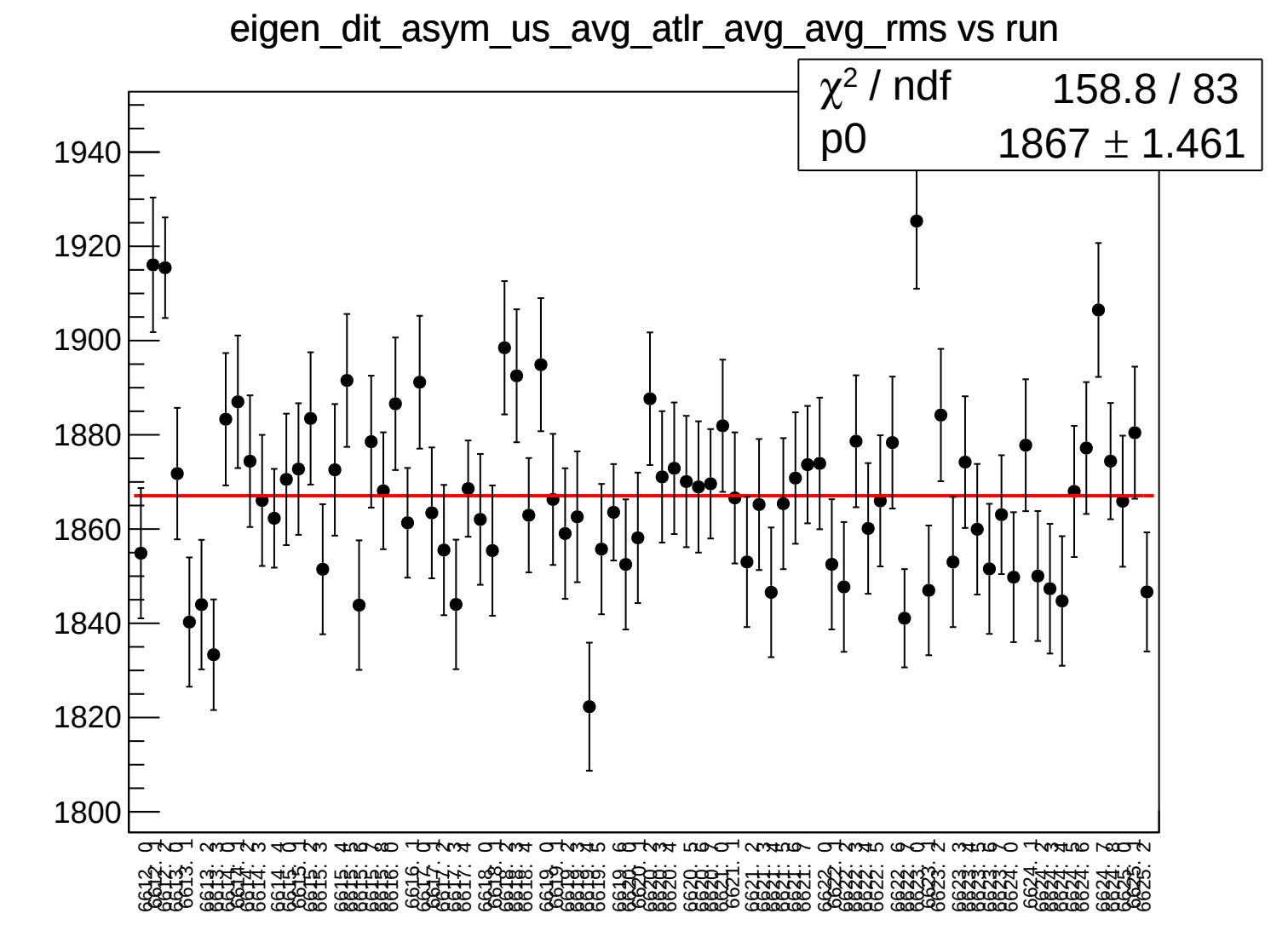

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.14 / 83
p0 −1091 ± 4951
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −1787
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

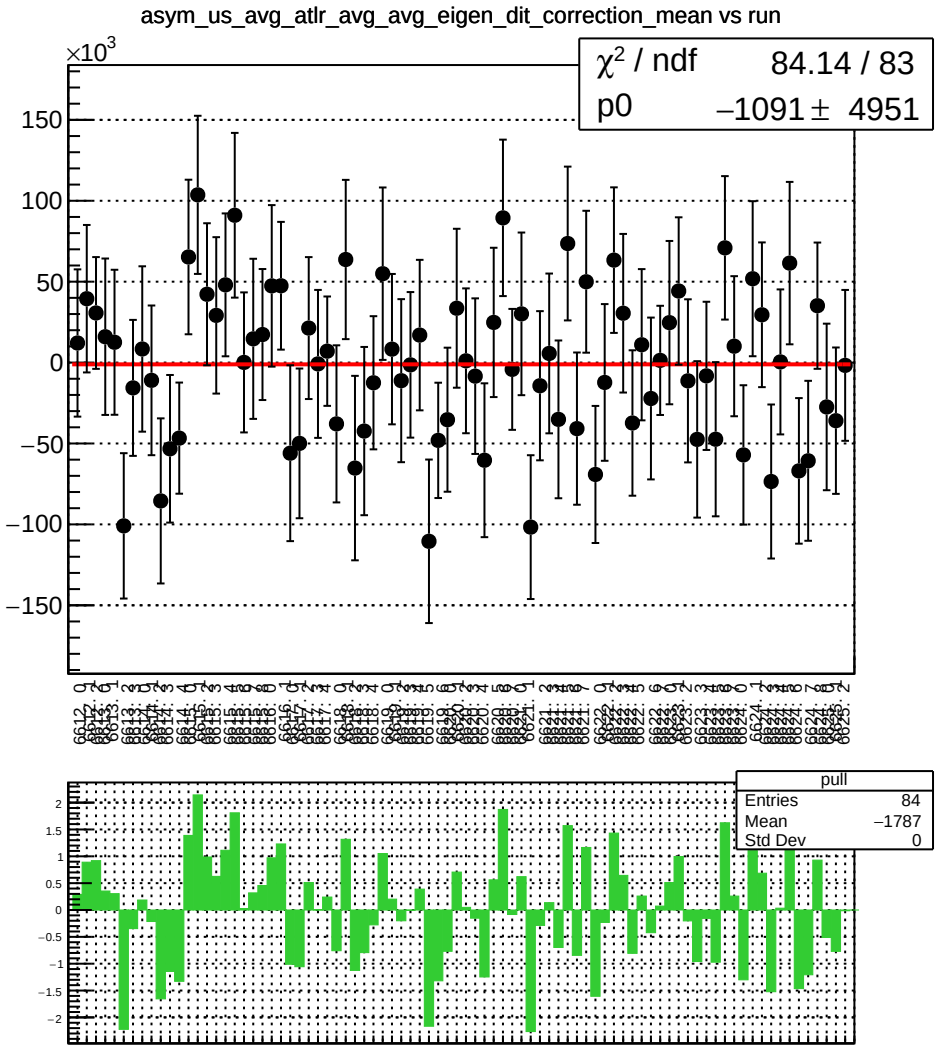

pull1D
Entries 84
Mean 0.001278
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

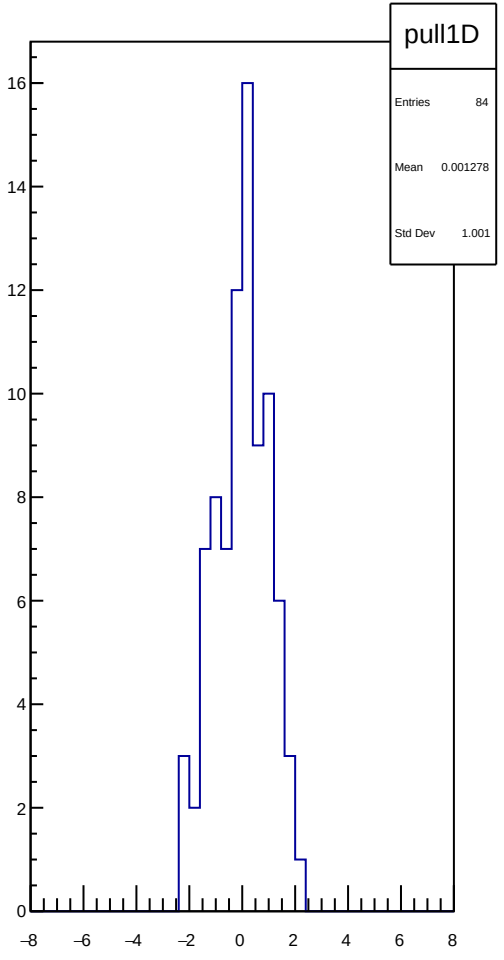

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 4802 / 83
p0 4467 ± 3.501
5400
5200
5000
4800
4600
4400
4200
4000

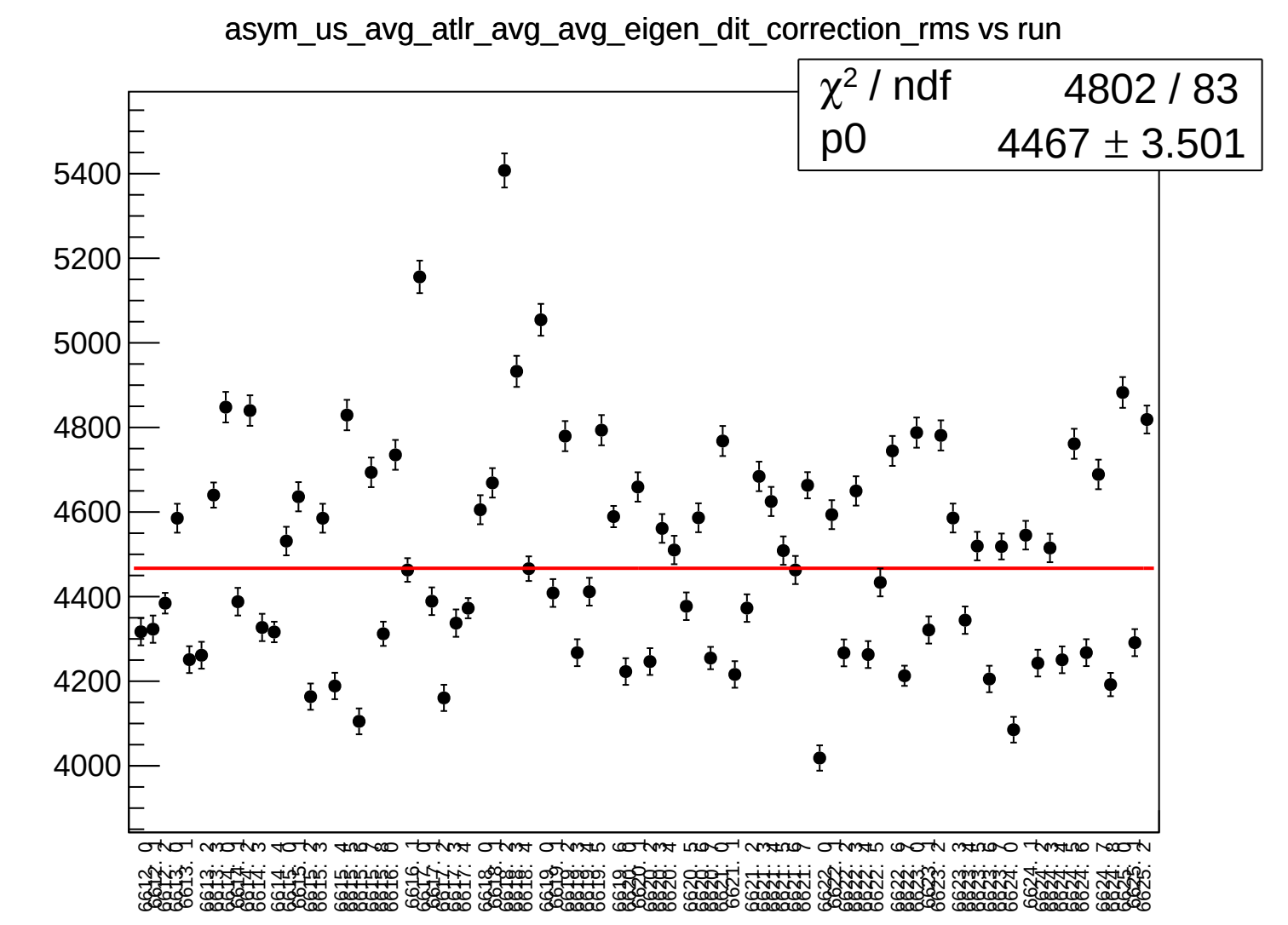

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 77.01 / 83
p0 1876 ± 2067
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 128.7
Std Dev 117.9
2
1
0
−1
−2
−3

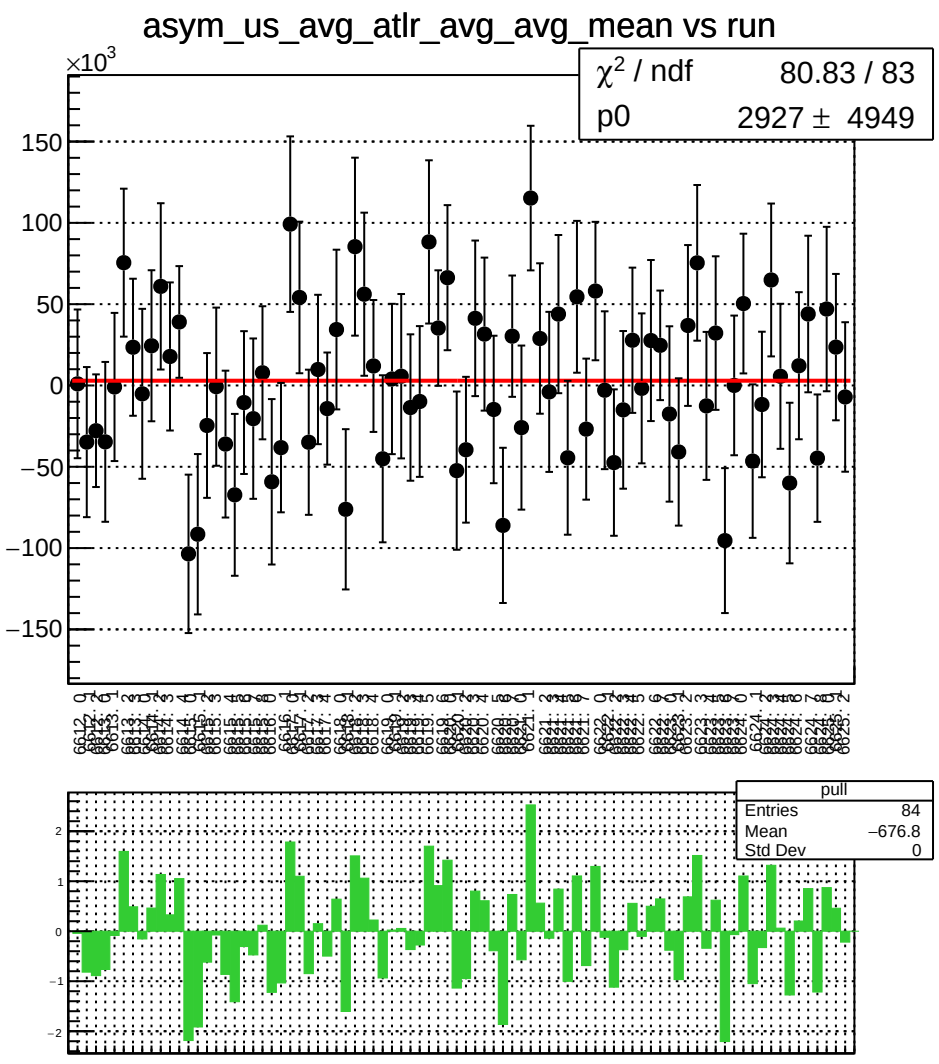

pull1D
Entries 84
Mean −0.004432
Std Dev 0.9575
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

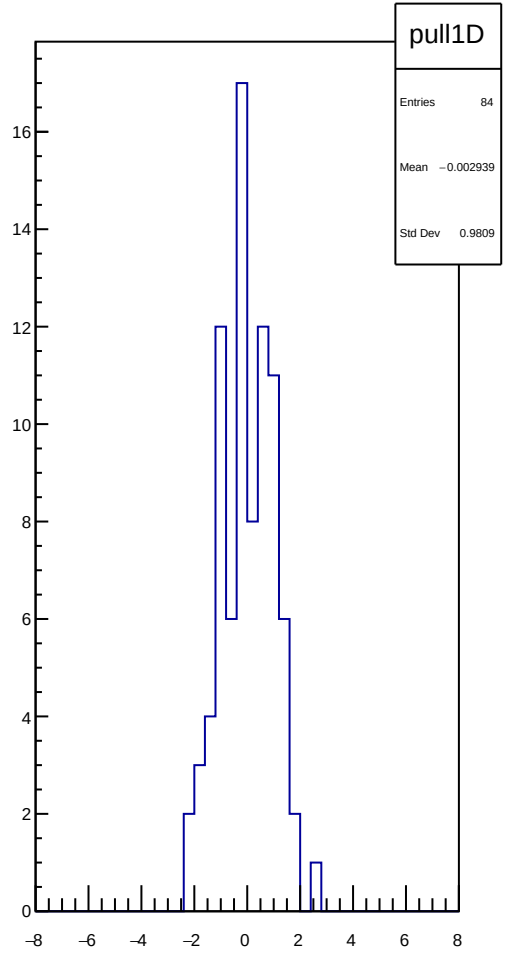

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 158.8 / 83
p0 1867 ± 1.461
1940
1920
1900
1880
1860
1840
1820
1800

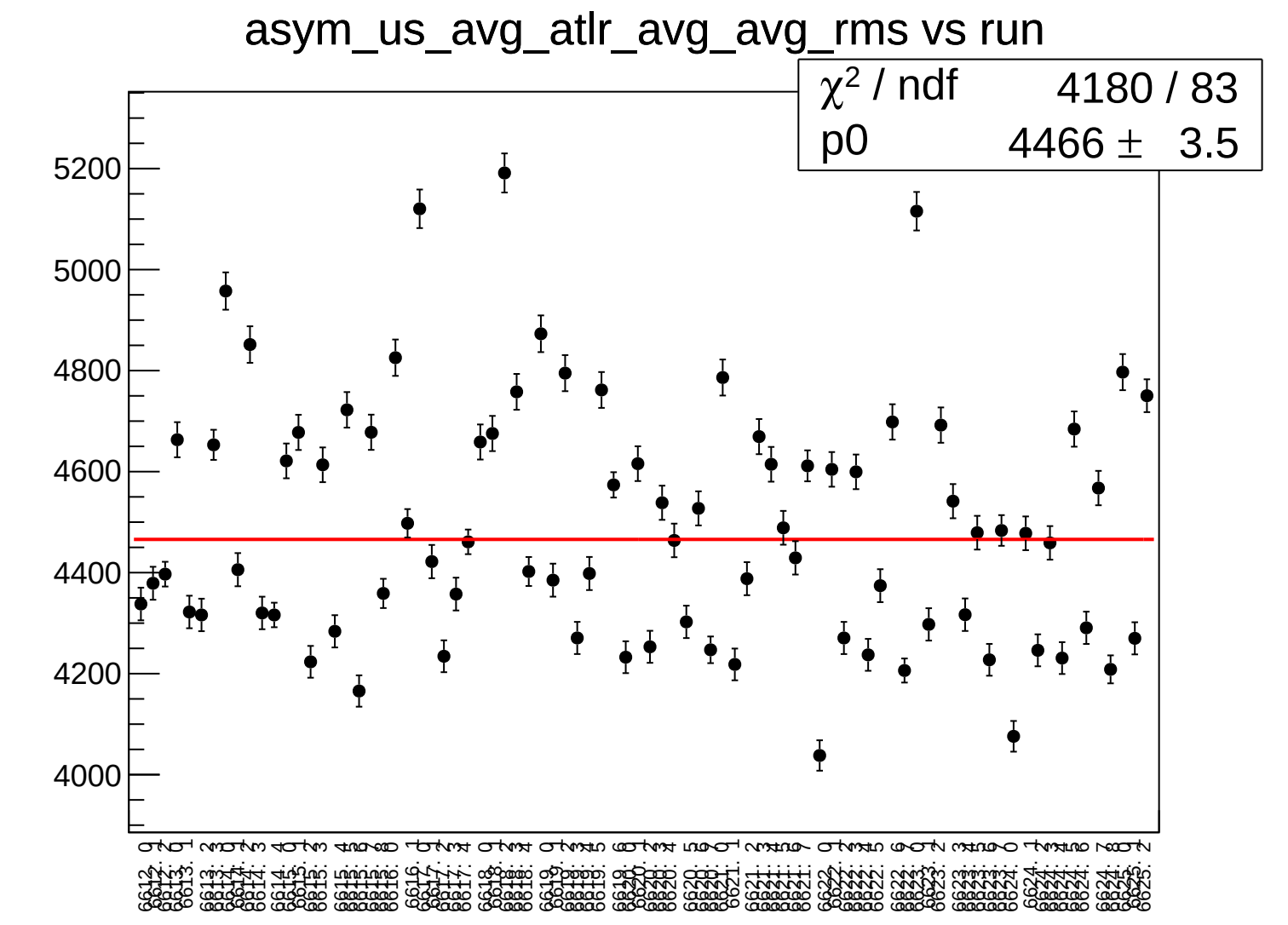

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.14 / 83
p0 −1091 ± 4951
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −1787
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

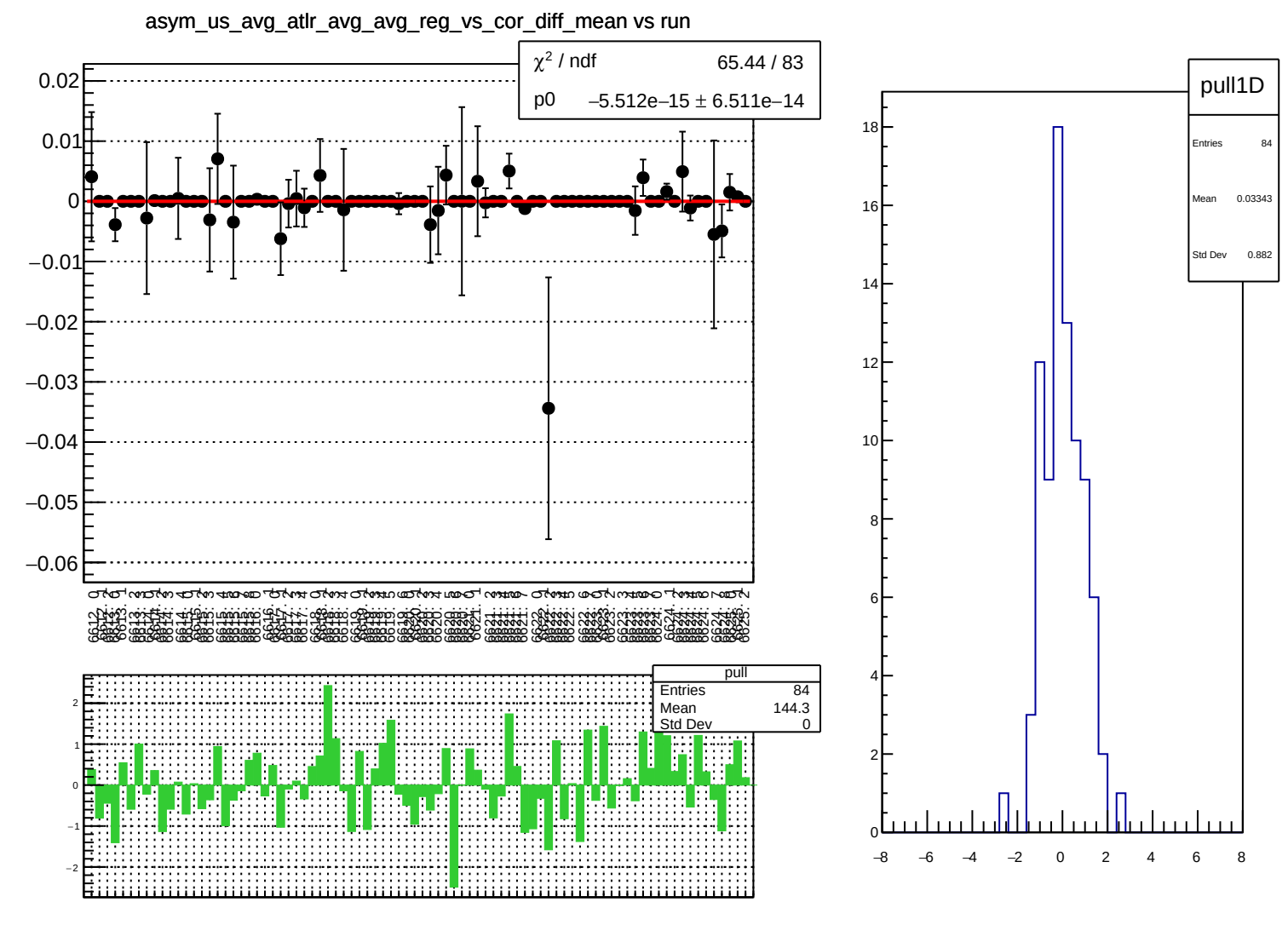

pull1D
Entries 84
Mean 0.001278
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

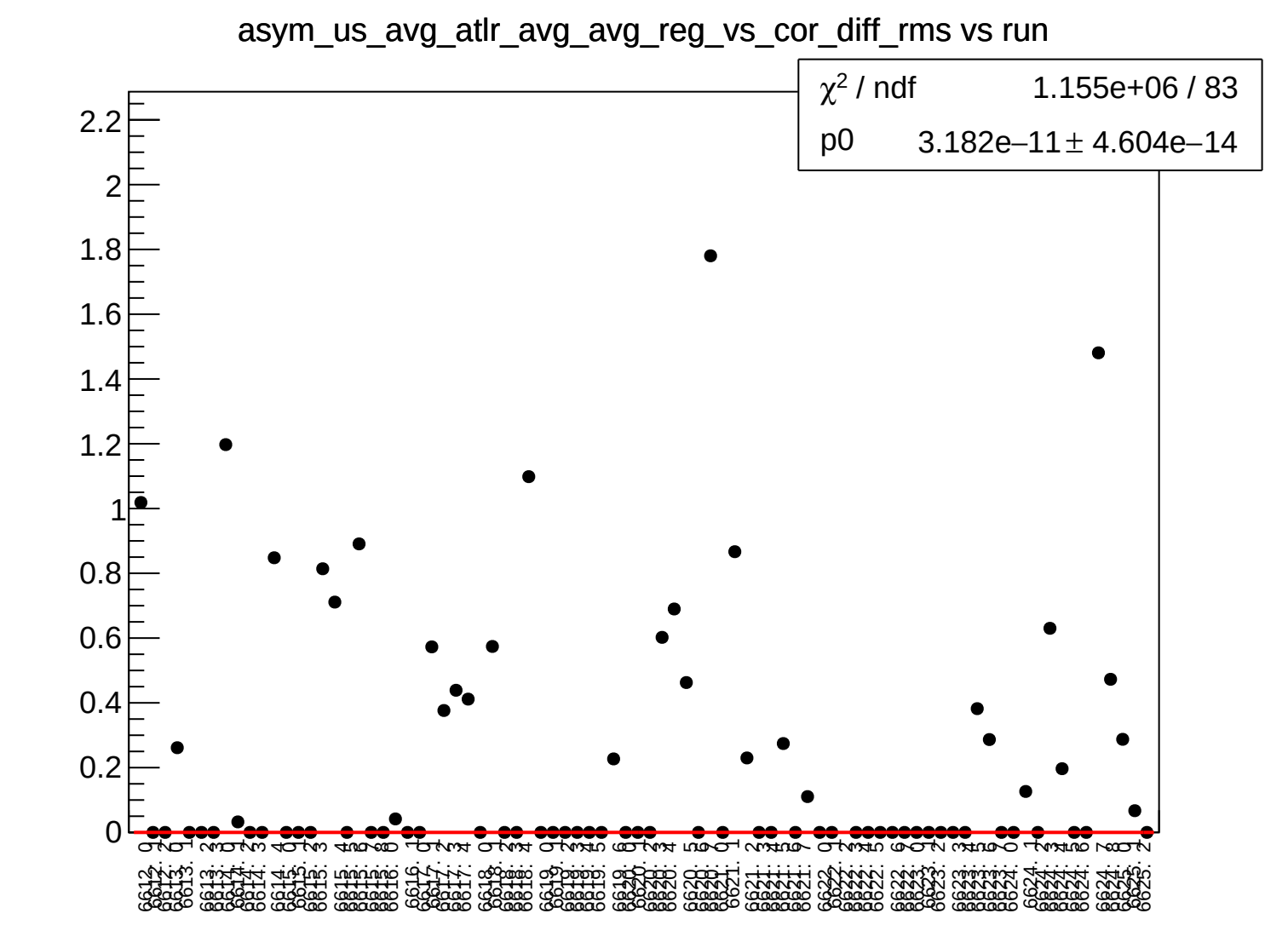

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4802 / 83
p0 4467 ± 3.501
5400
5200
5000
4800
4600
4400
4200
4000

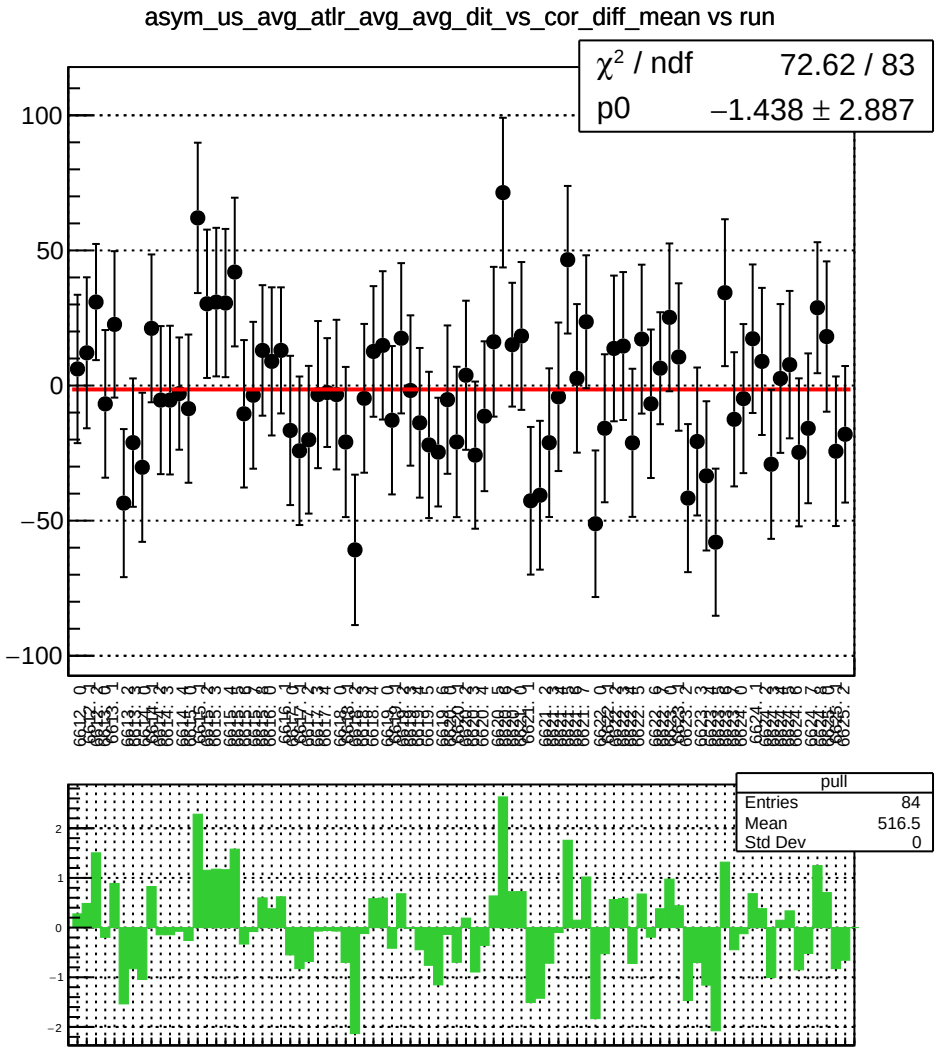

asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 80.83 / 83
p0 2927 ± 4949
×10³
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −676.8
Std Dev 0
2
1
0
−1
−2

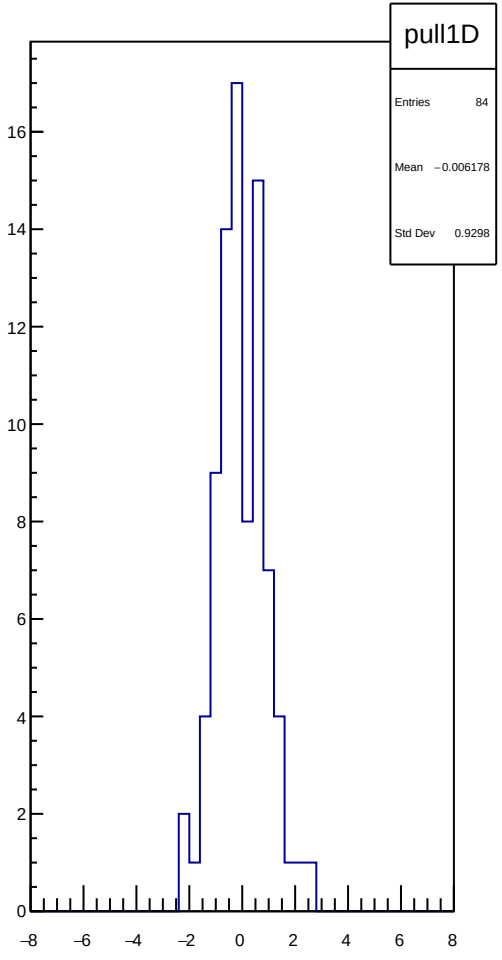

pull1D
Entries 84
Mean −0.002939
Std Dev 0.9809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

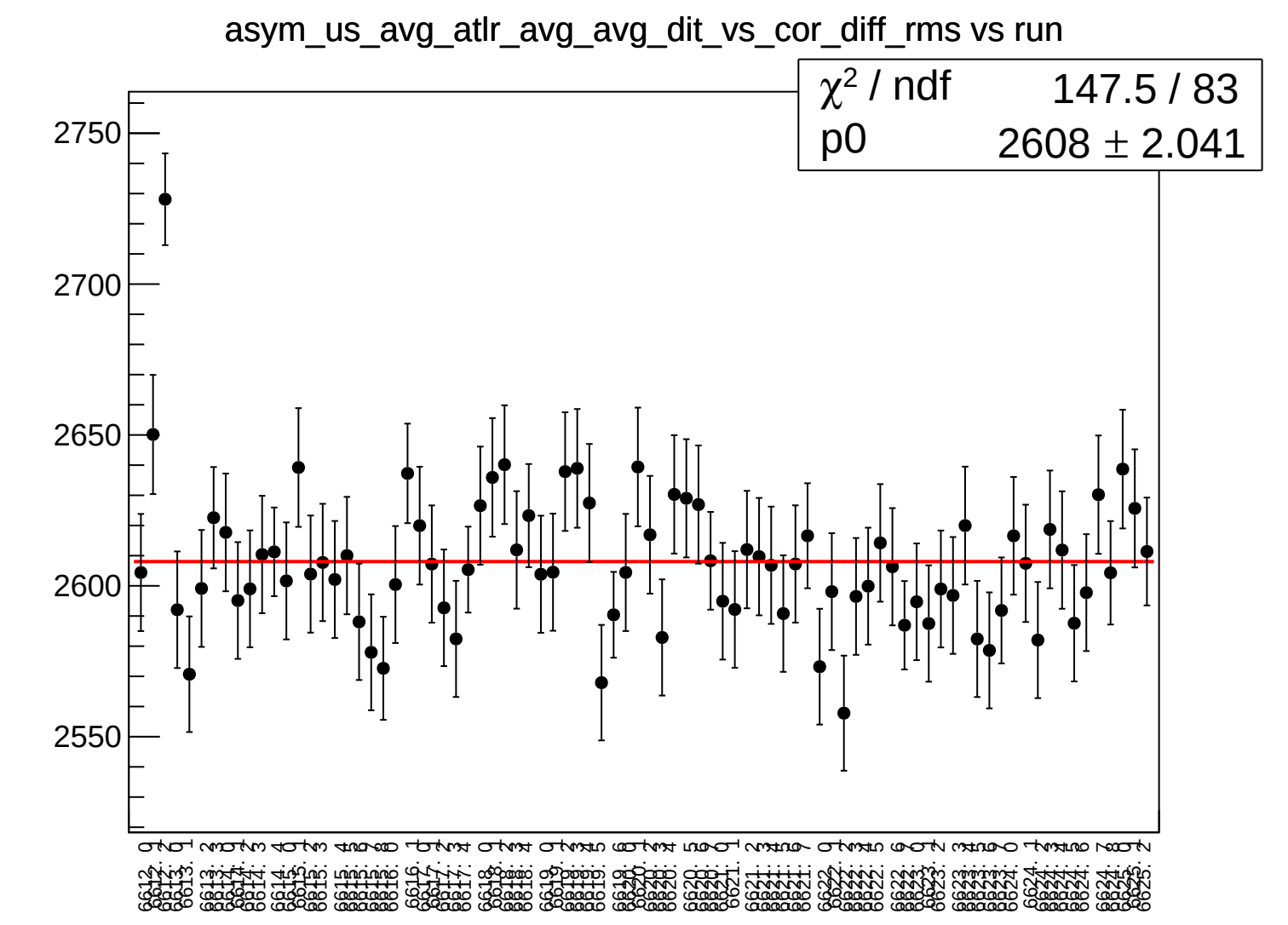

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 4180 / 83
p0 4466 ± 3.5
5200
5000
4800
4600
4400
4200
4000

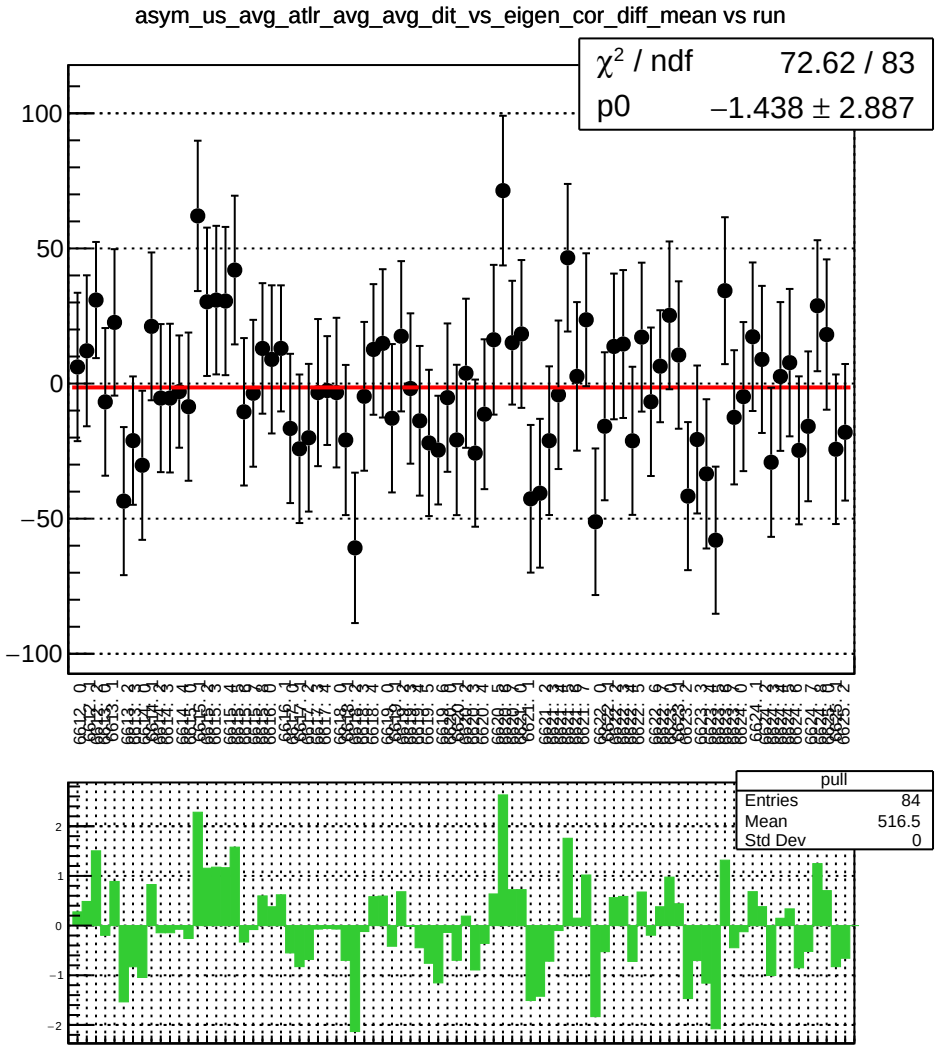

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 65.44 / 83
p0 −5.512e−15 ± 6.511e−14
pull
Entries 84
Mean 144.3
Std Dev 0
pull1D
Entries 84
Mean 0.03343
Std Dev 0.882

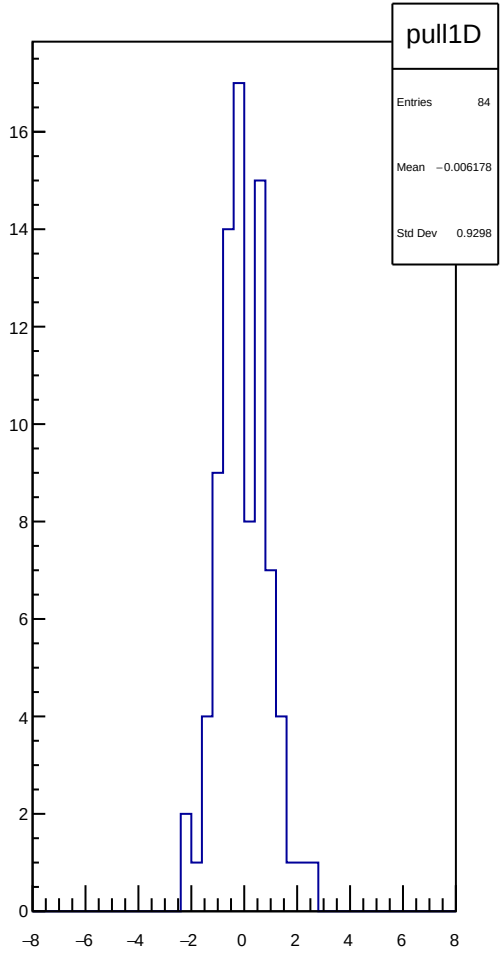

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.155e+06 / 83
p0 3.182e−11 ± 4.604e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

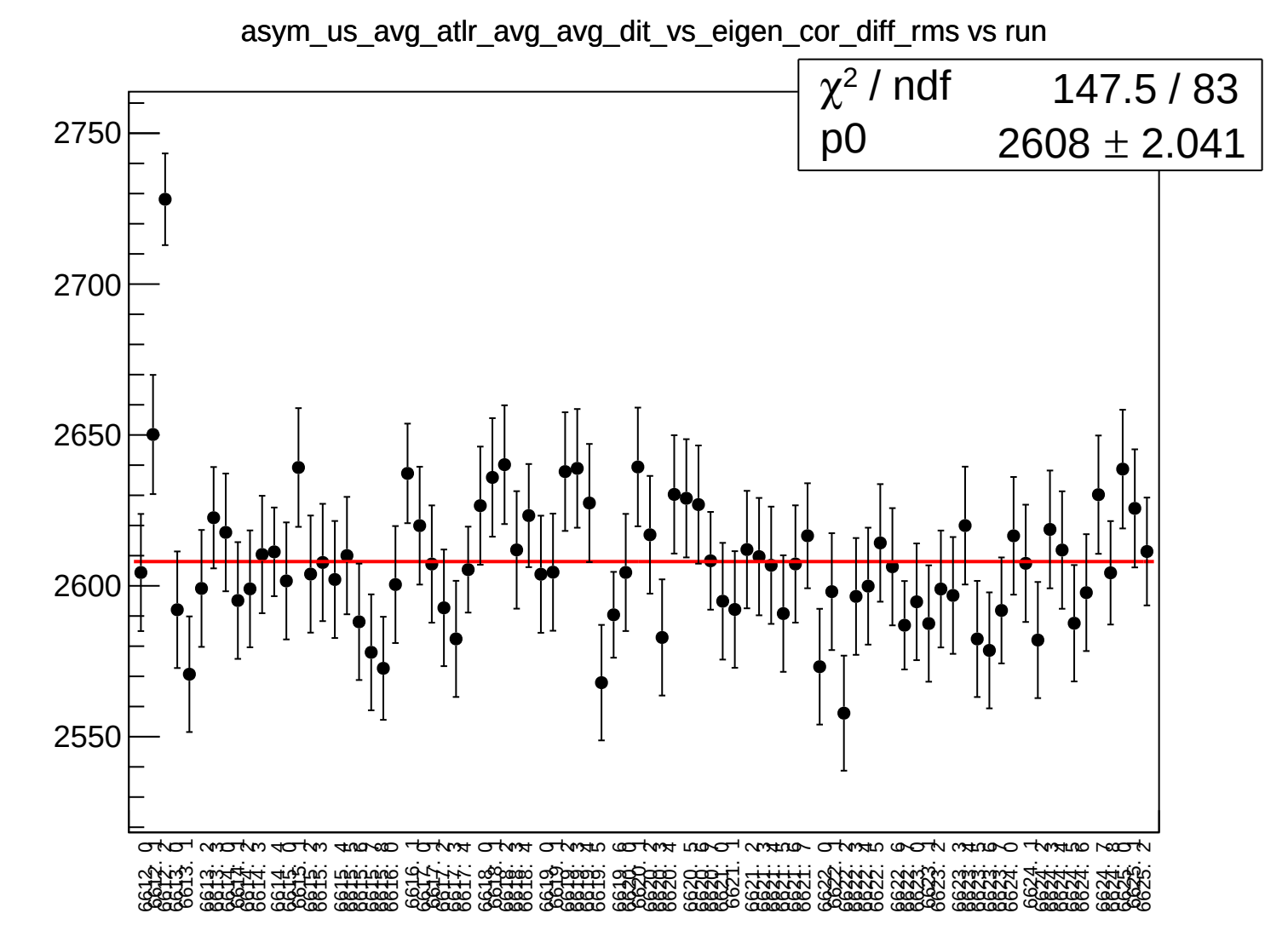

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.62 / 83
p0 −1.438 ± 2.887
100
50
0
−50
−100
pull
Entries 84
Mean 516.5
Std Dev 0
2
1
0
−1
−2

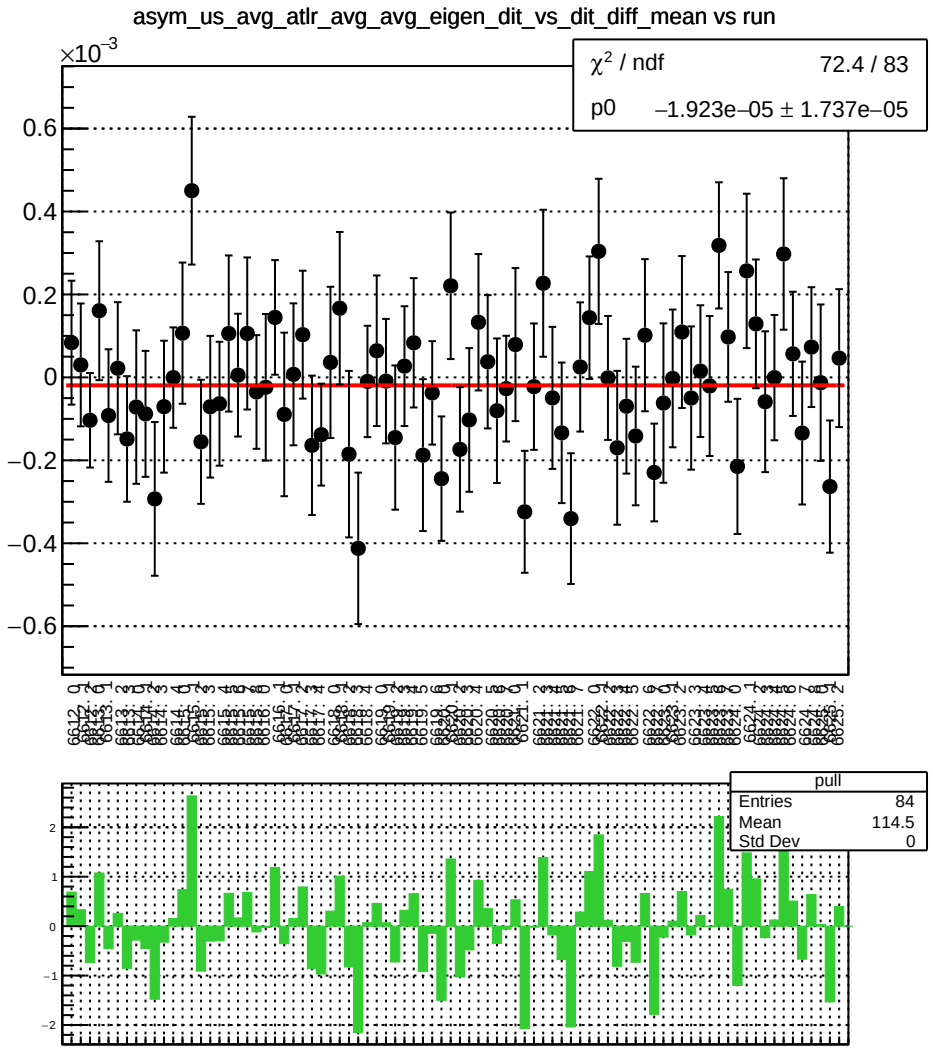

pull1D
Entries 84
Mean −0.006178
Std Dev 0.9298
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

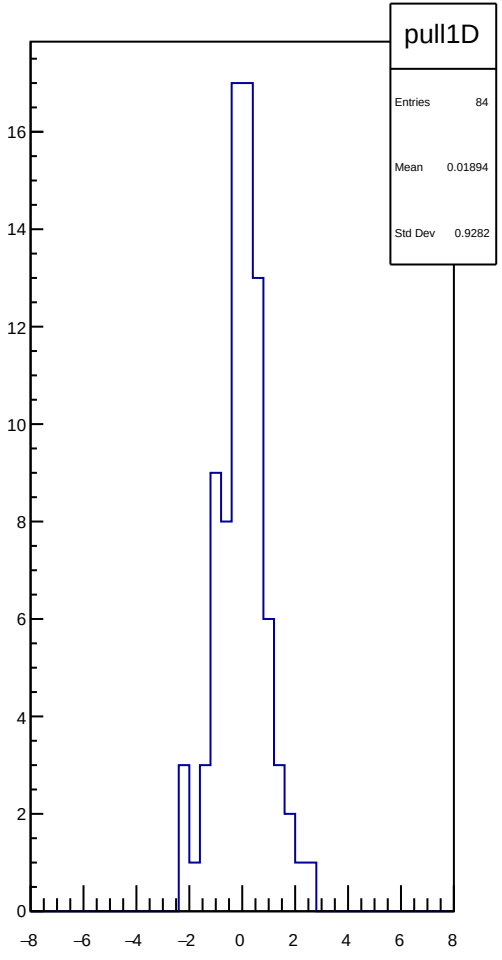

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 147.5 / 83
p0 2608 ± 2.041
2750
2700
2650
2600
2550

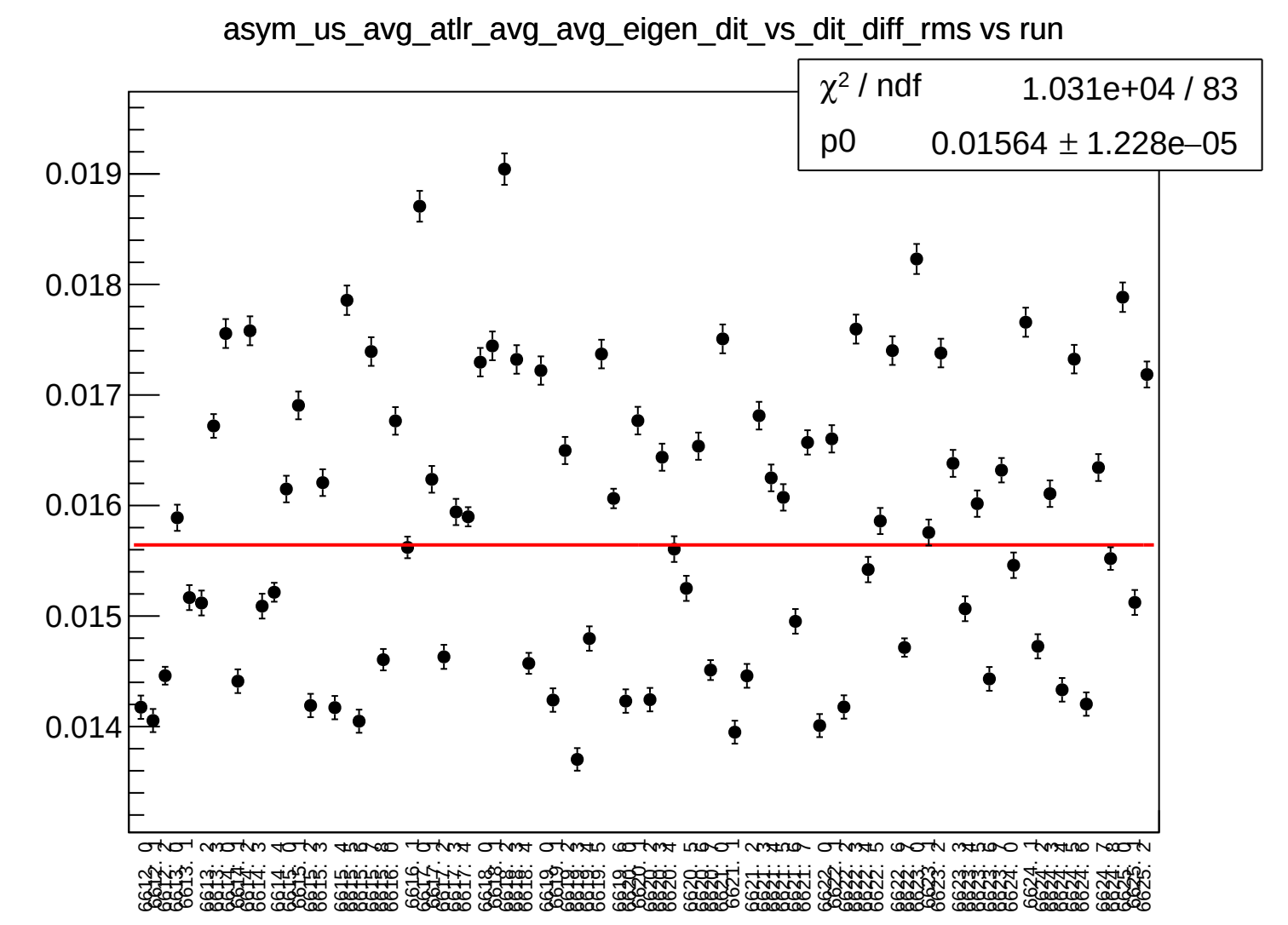

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.62 / 83
p0 −1.438 ± 2.887
100
50
0
−50
−100
pull
Entries 84
Mean 516.5
Std Dev 0
2
1
0
−1
−2

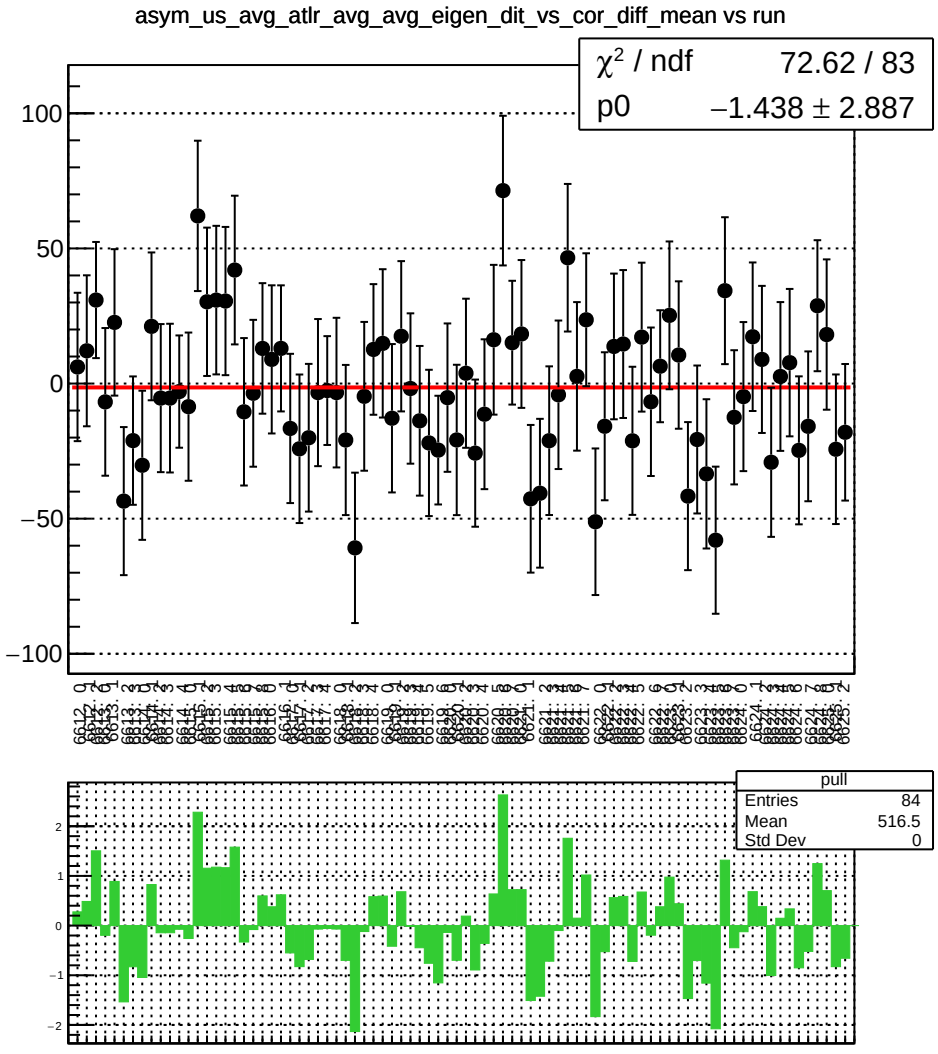

pull1D
Entries 84
Mean −0.006178
Std Dev 0.9298
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

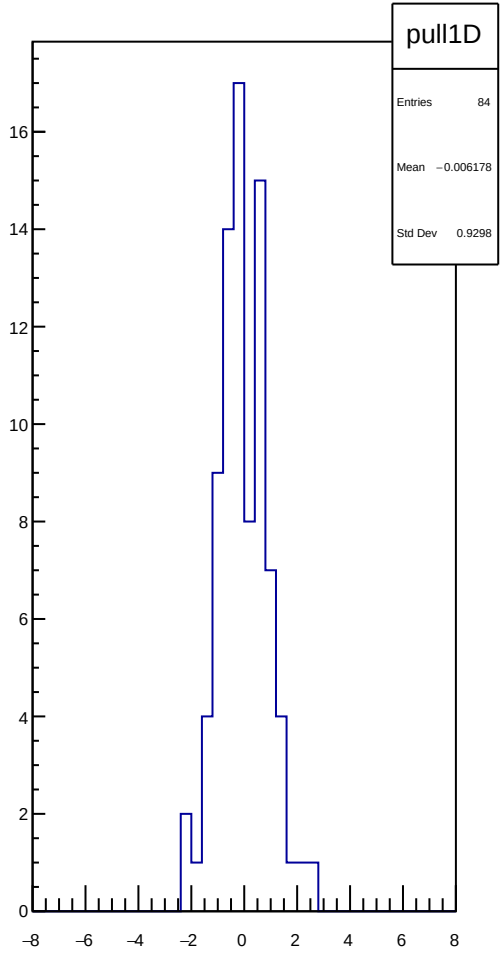

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 147.5 / 83
p0 2608 ± 2.041
2750
2700
2650
2600
2550

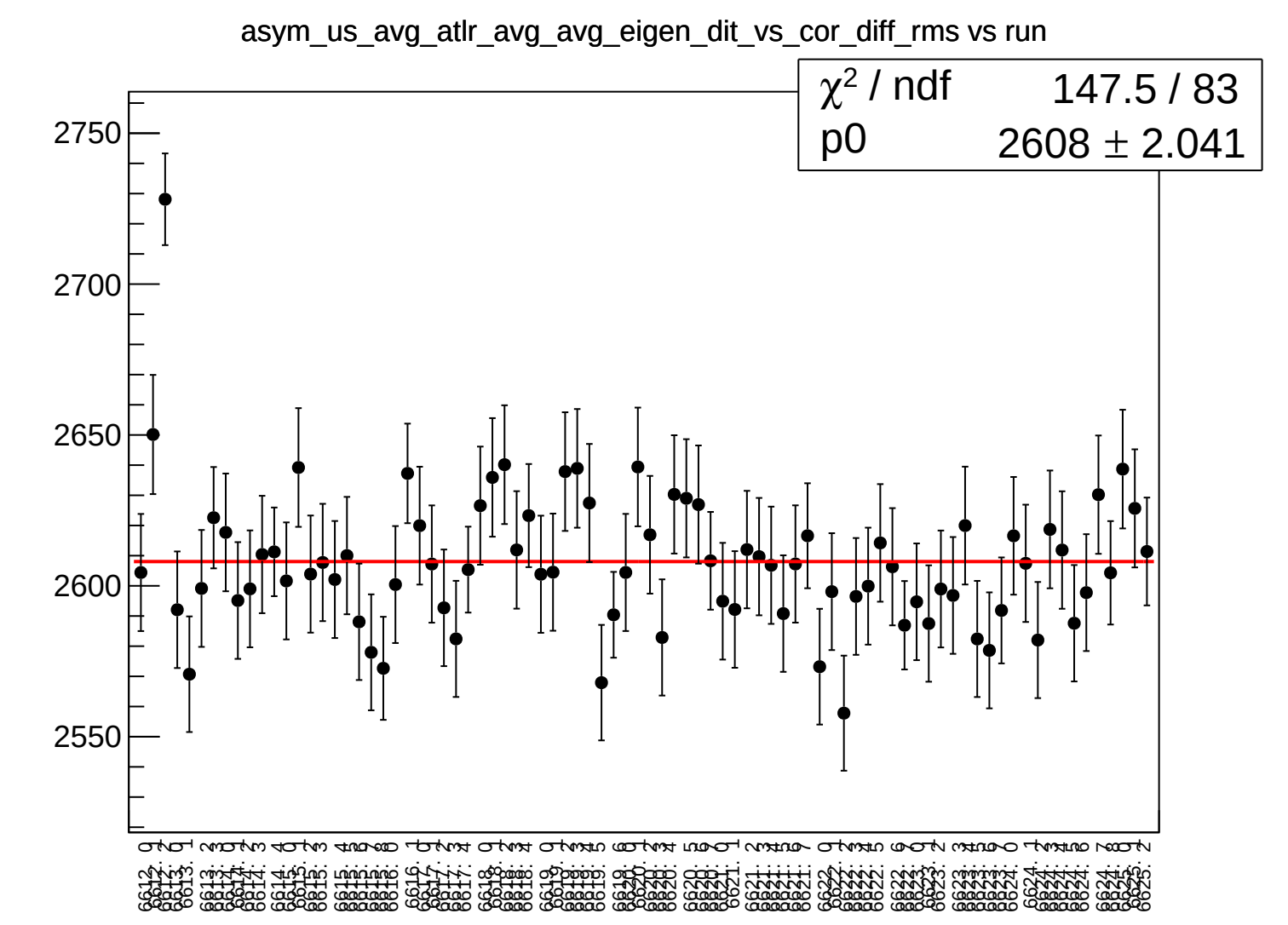

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.4 / 83
p0 −1.923e−05 ± 1.737e−05
pull
Entries 84
Mean 114.5
Std Dev 0

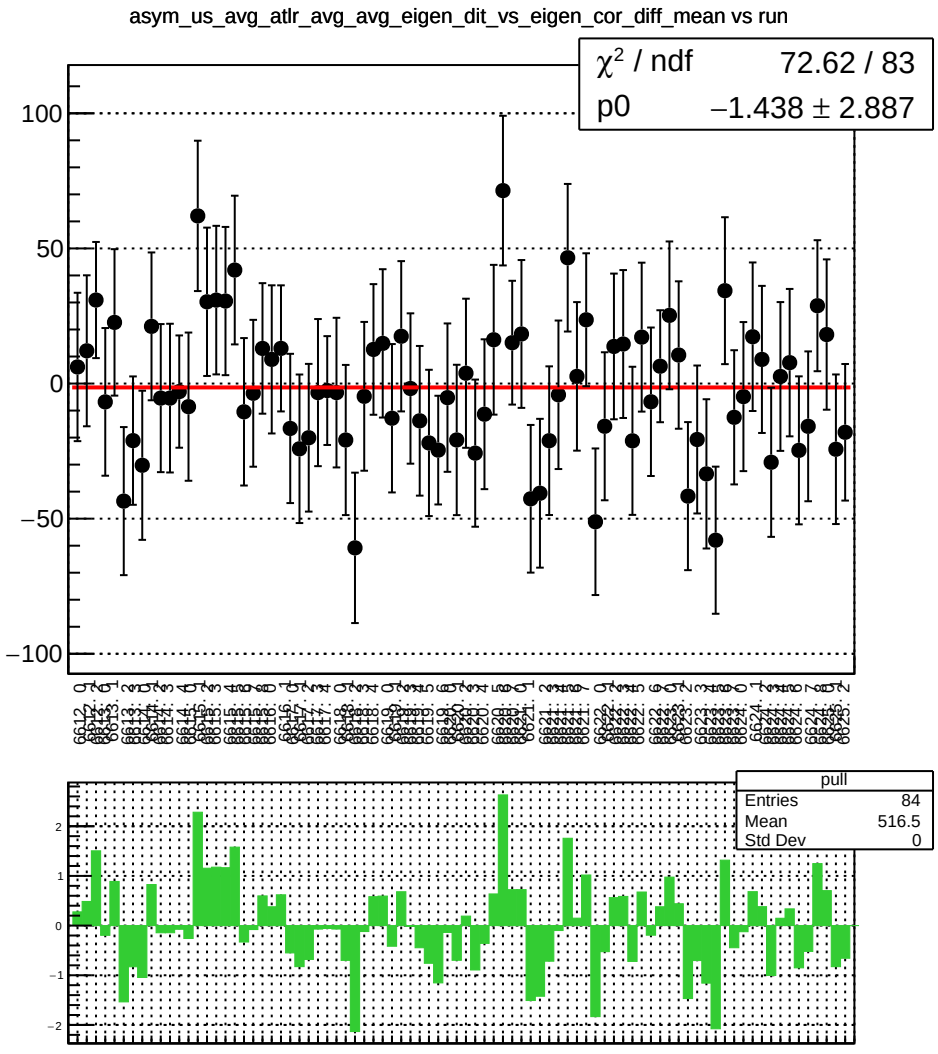

pull1D
Entries 84
Mean 0.01894
Std Dev 0.9282

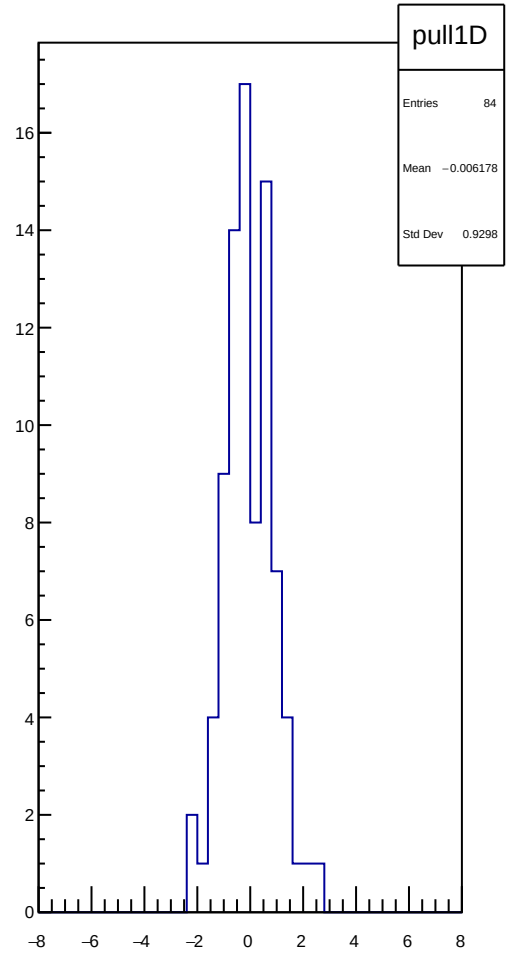

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.031e+04 / 83
p0 0.01564 ± 1.228e−05
0.019
0.018
0.017
0.016
0.015
0.014

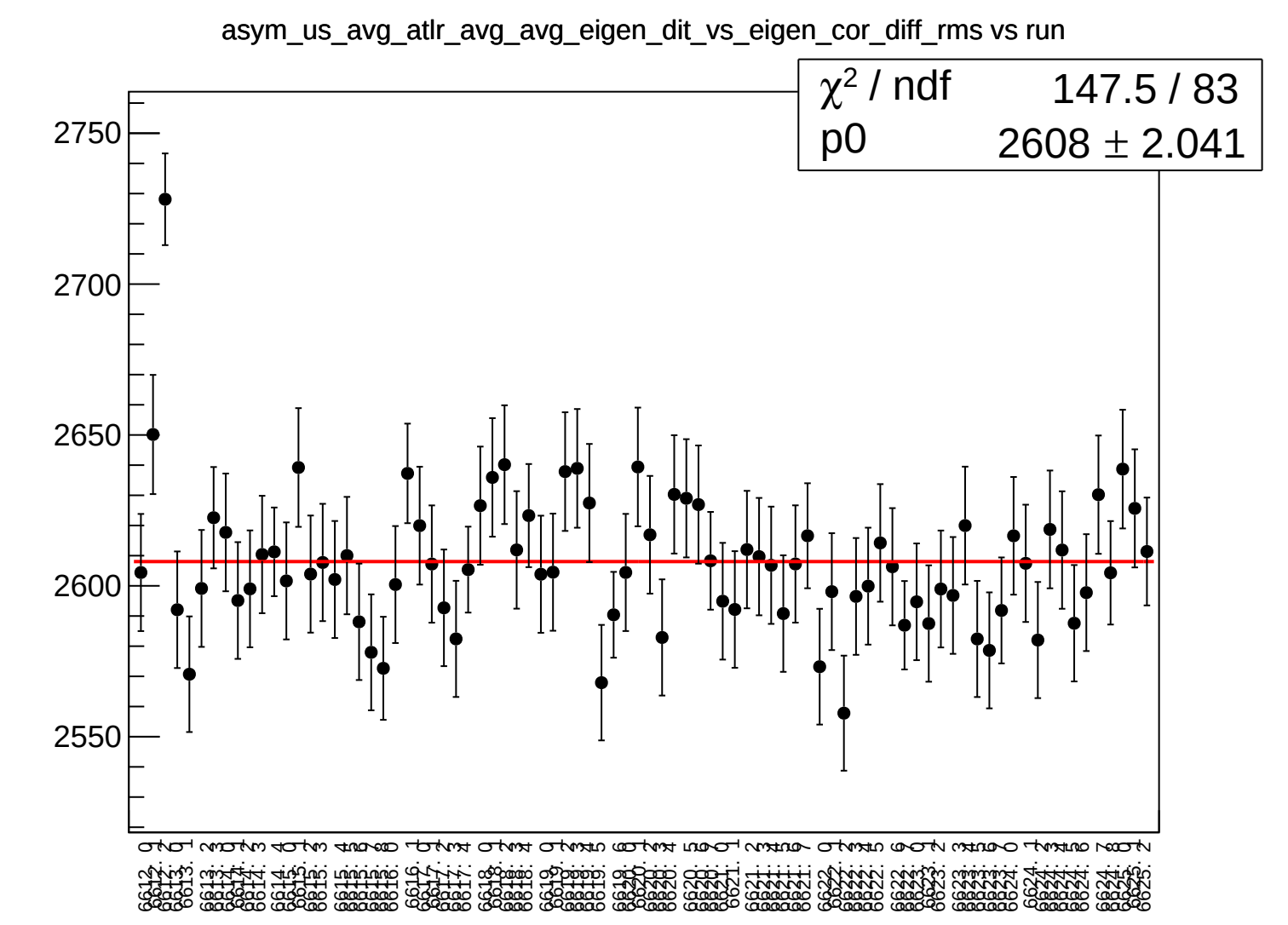

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.62 / 83
p0 −1.438 ± 2.887
100
50
0
−50
−100
pull
Entries 84
Mean 516.5
Std Dev 0
2
1
0
−1
−2

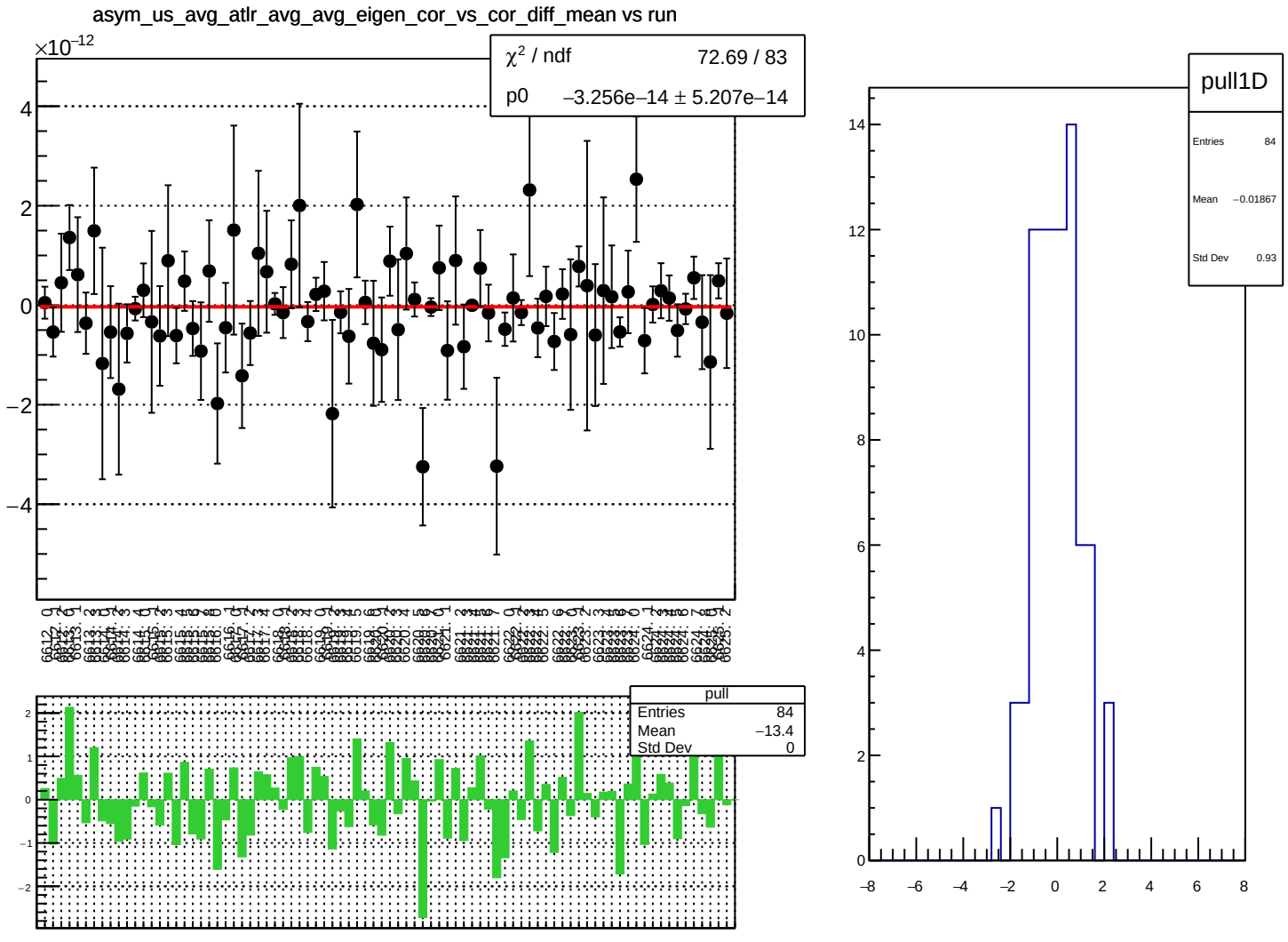

pull1D
Entries 84
Mean −0.006178
Std Dev 0.9298
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

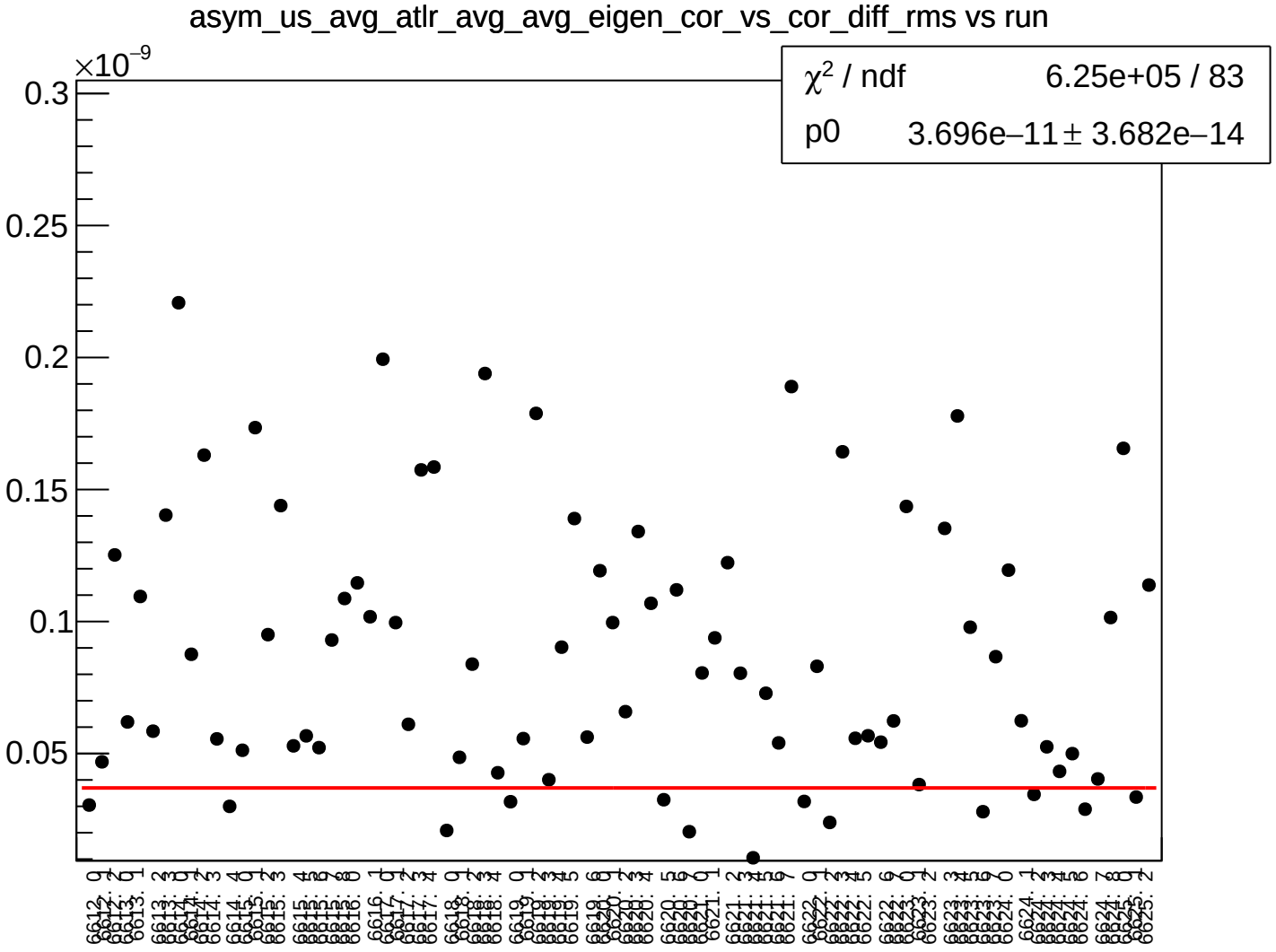

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 147.5 / 83
p0 2608 ± 2.041
2750
2700
2650
2600
2550

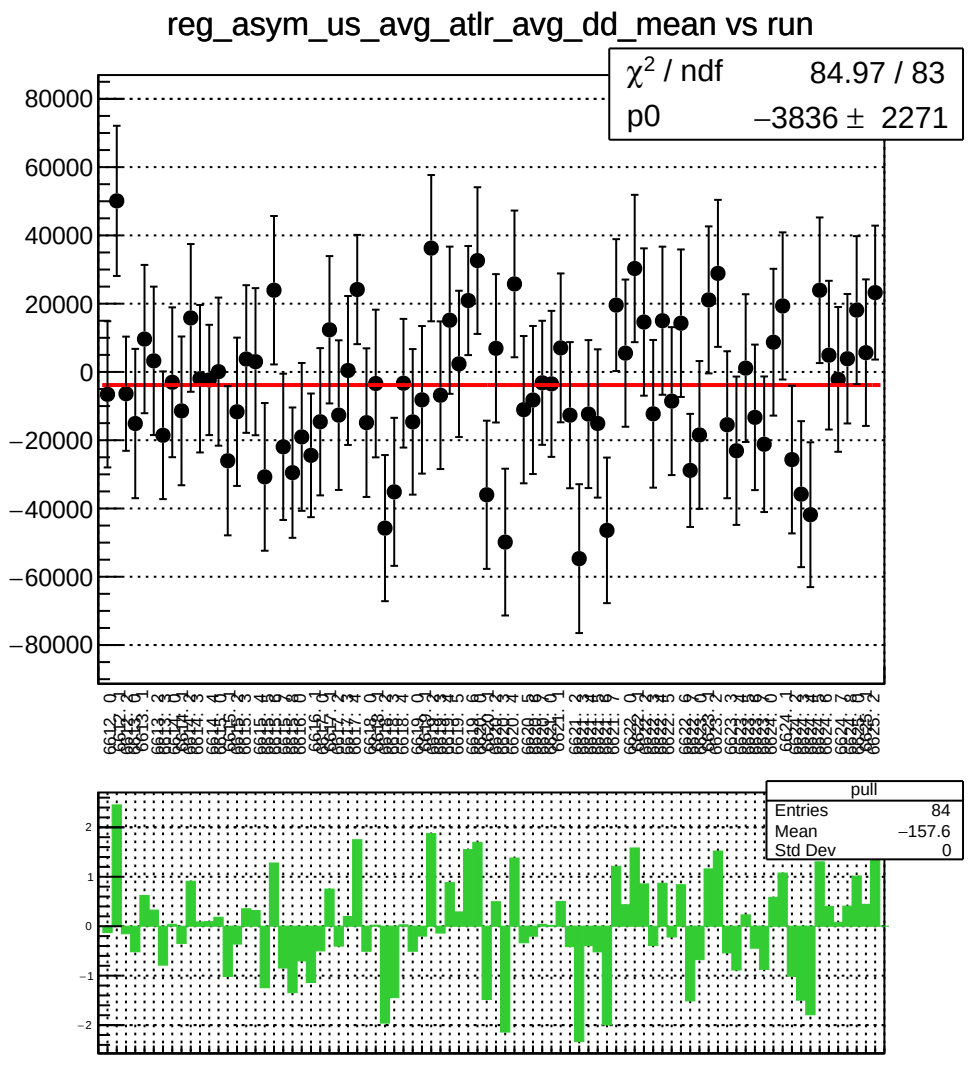

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.62 / 83
p0 −1.438 ± 2.887
pull
Entries 84
Mean 516.5
Std Dev 0

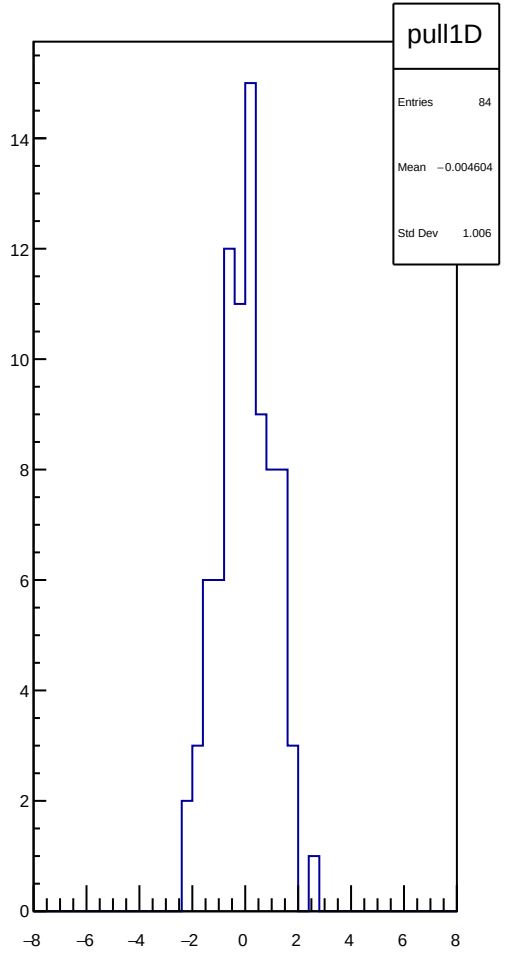

pull1D
Entries 84
Mean −0.006178
Std Dev 0.9298

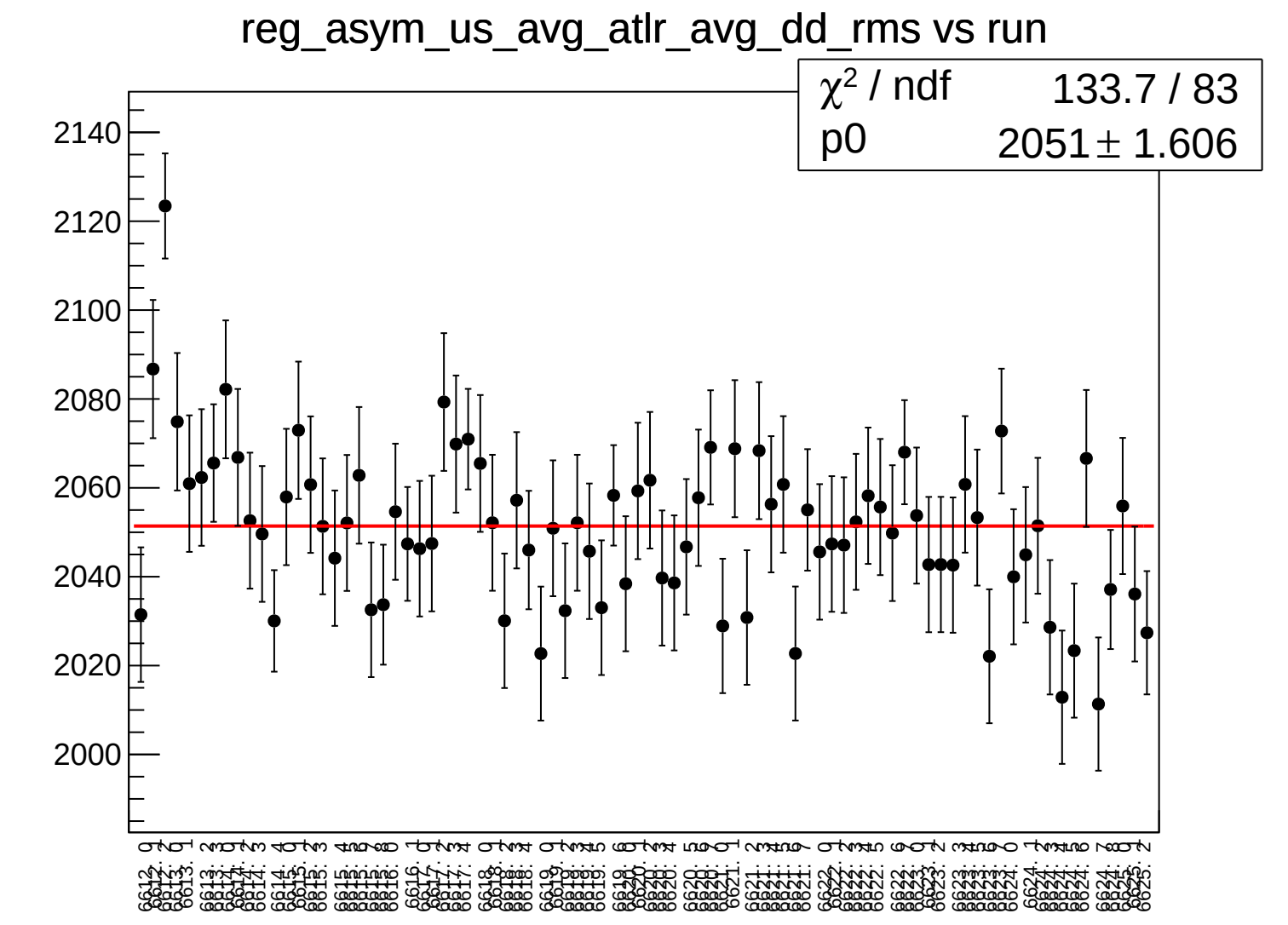

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 147.5 / 83
p0 2608 ± 2.041
2750
2700
2650
2600
2550

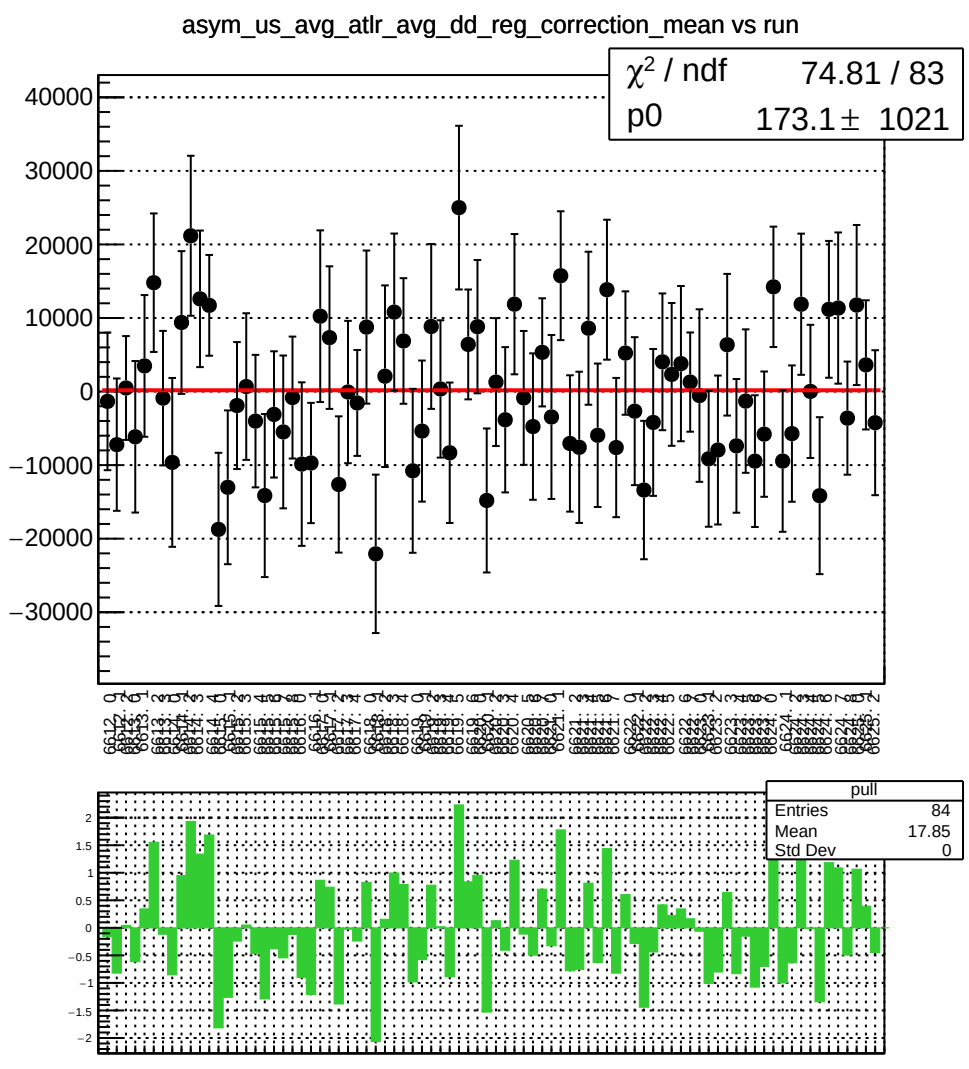

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.69 / 83
p0 −3.256e−14 ± 5.207e−14
pull
Entries 84
Mean −13.4
Std Dev 0
pull1D
Entries 84
Mean −0.01867
Std Dev 0.93

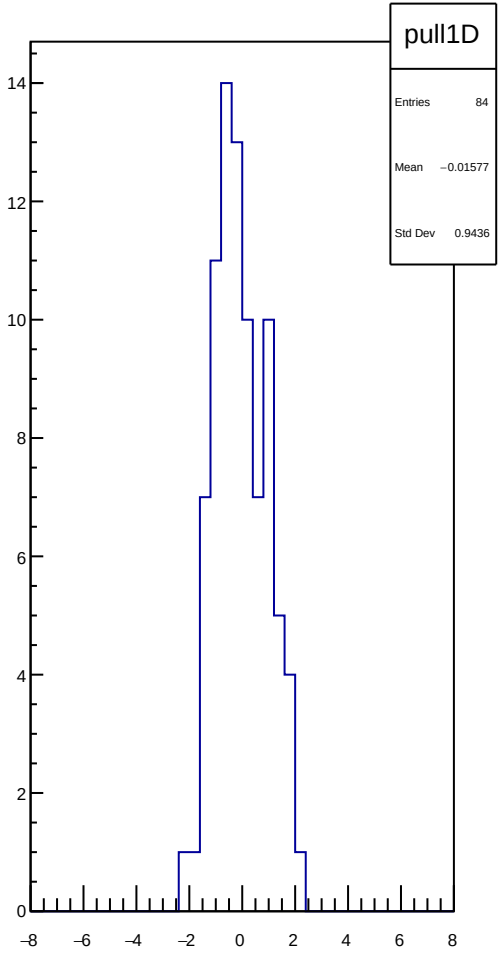

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 6.25e+05 / 83
p0 3.696e−11 ± 3.682e−14

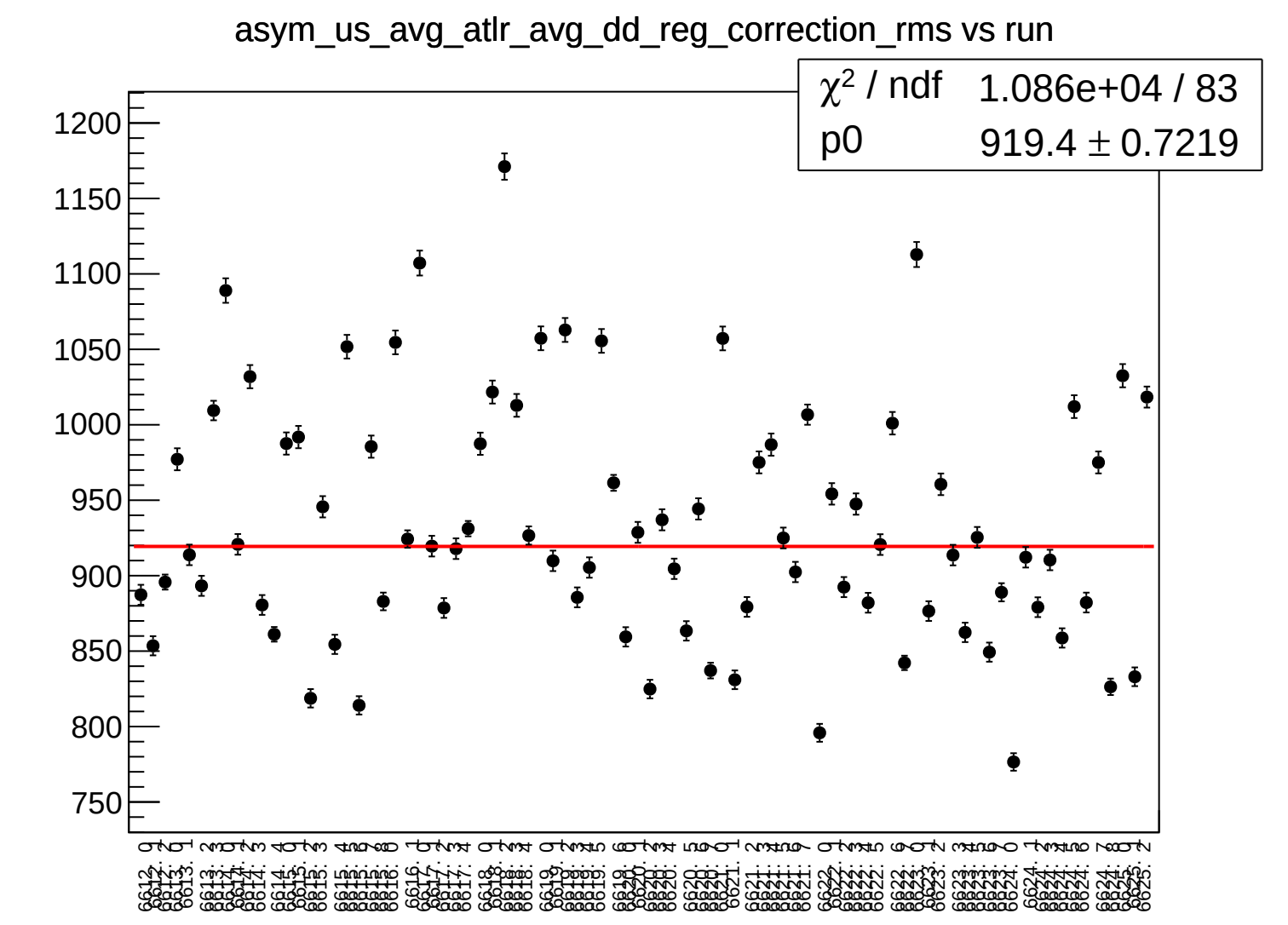

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 84.97 / 83
p0 −3836 ± 2271
pull
Entries 84
Mean −157.6
Std Dev 0

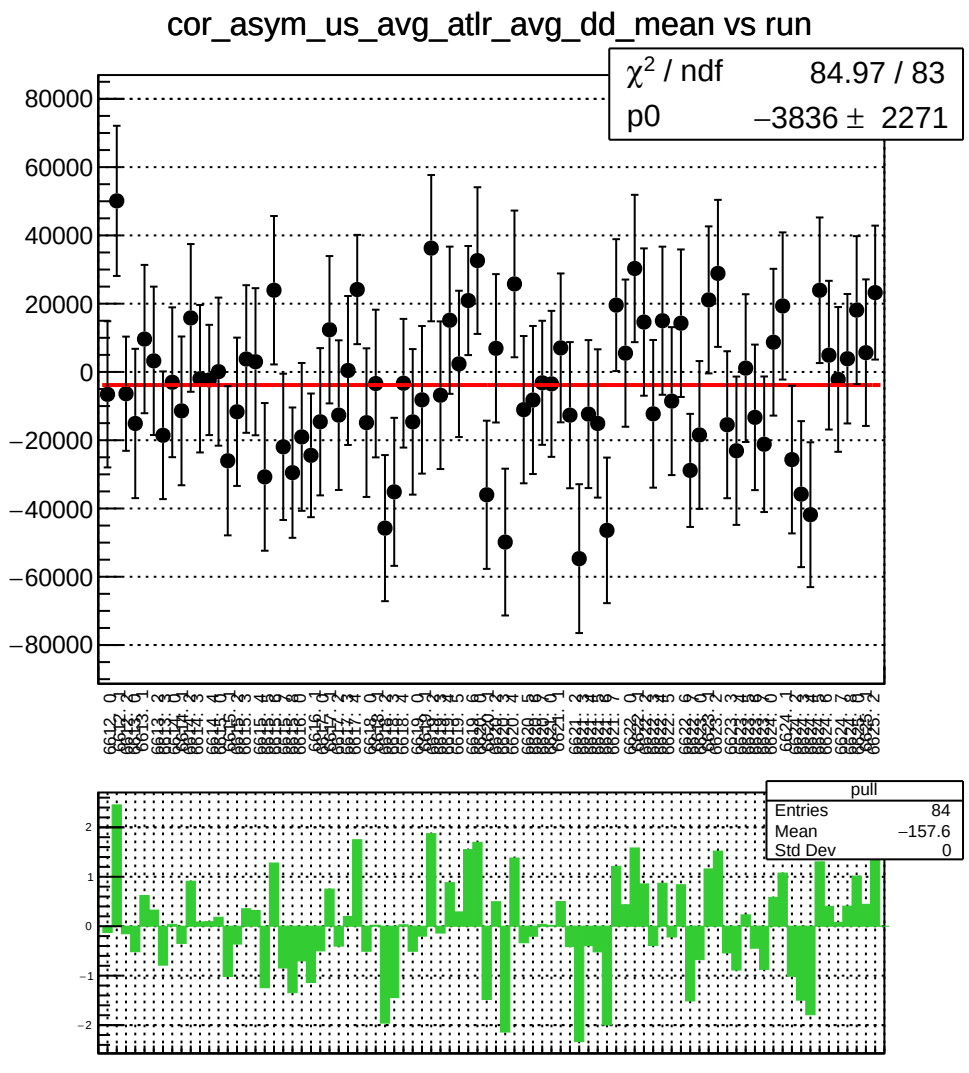

pull1D
Entries 84
Mean −0.004604
Std Dev 1.006

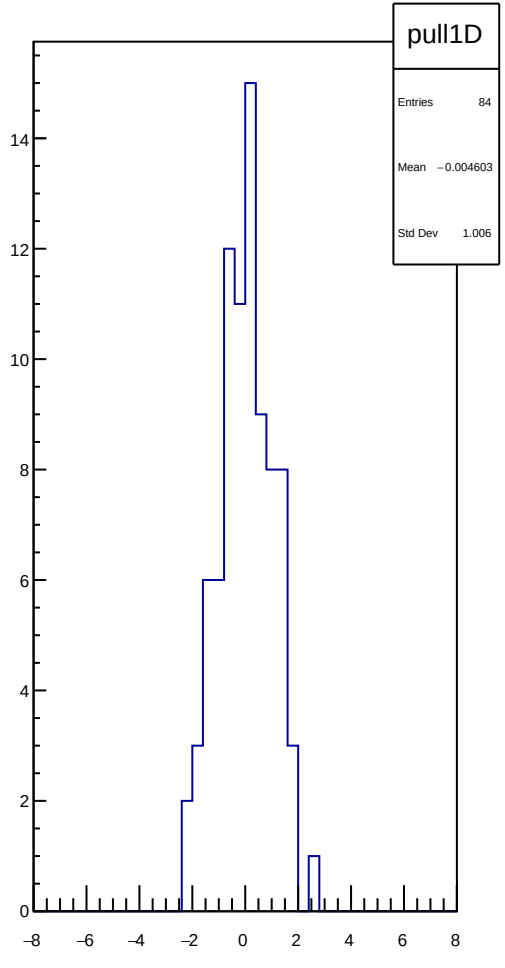

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 133.7 / 83
p0 2051 ± 1.606
2140
2120
2100
2080
2060
2040
2020
2000

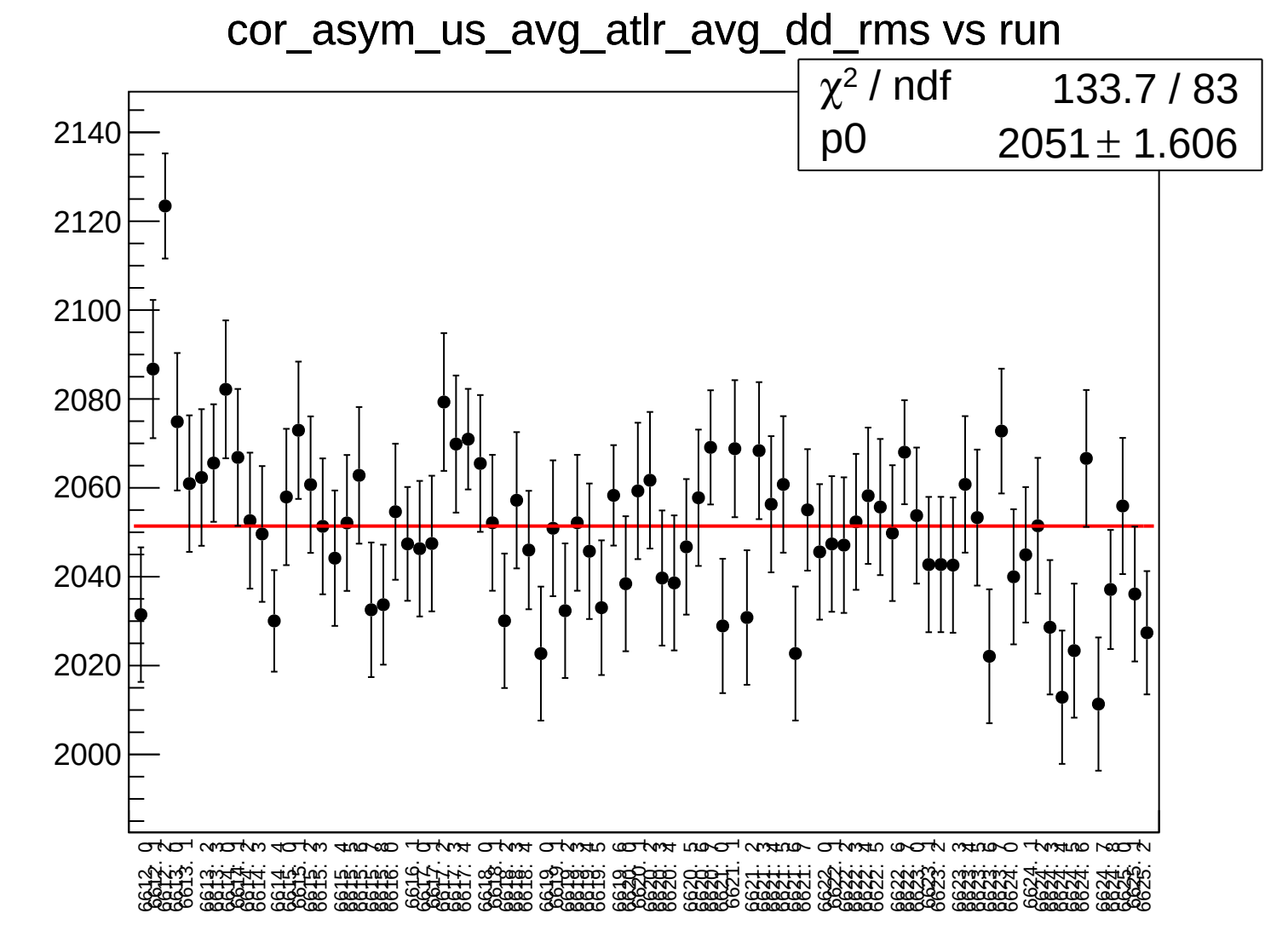

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
χ² / ndf 74.81 / 83
p0 173.1 ± 1021
pull
Entries 84
Mean 17.85
Std Dev 0

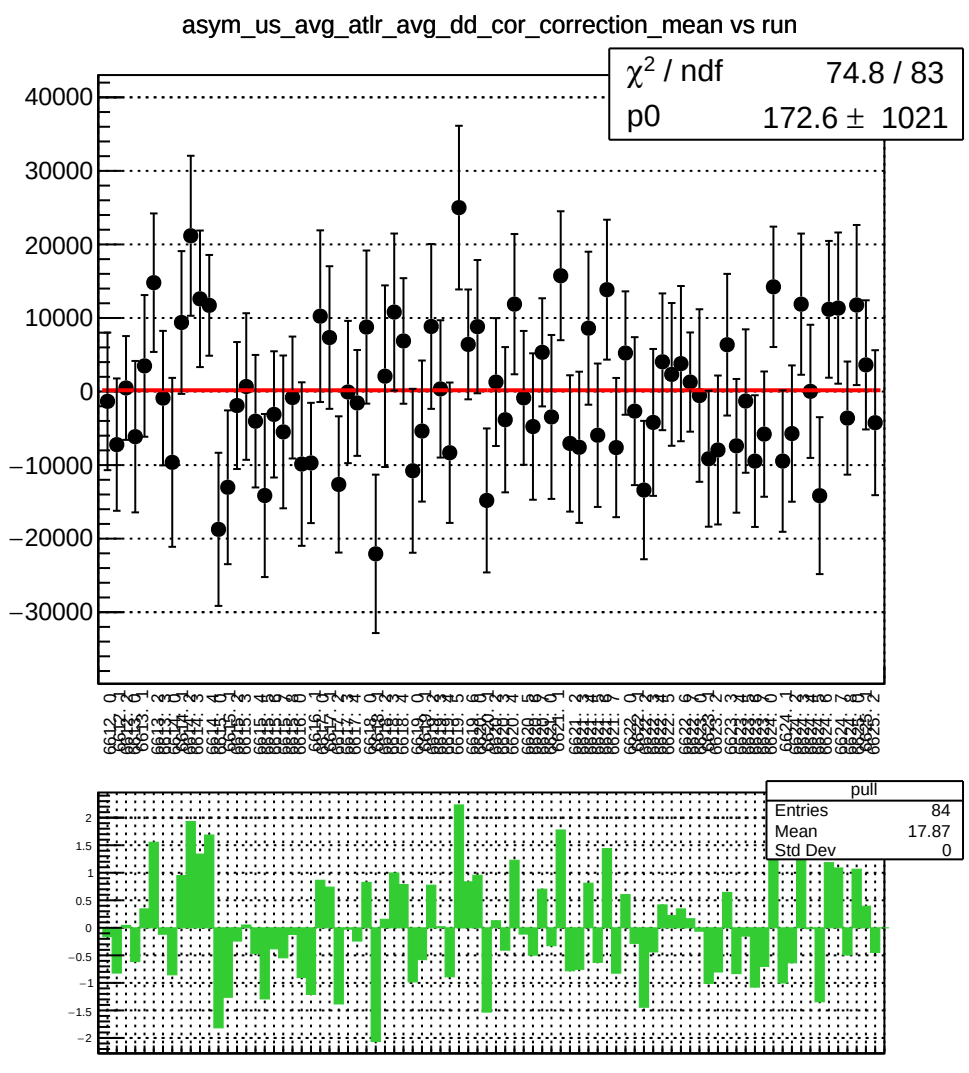

pull1D
Entries 84
Mean −0.01577
Std Dev 0.9436

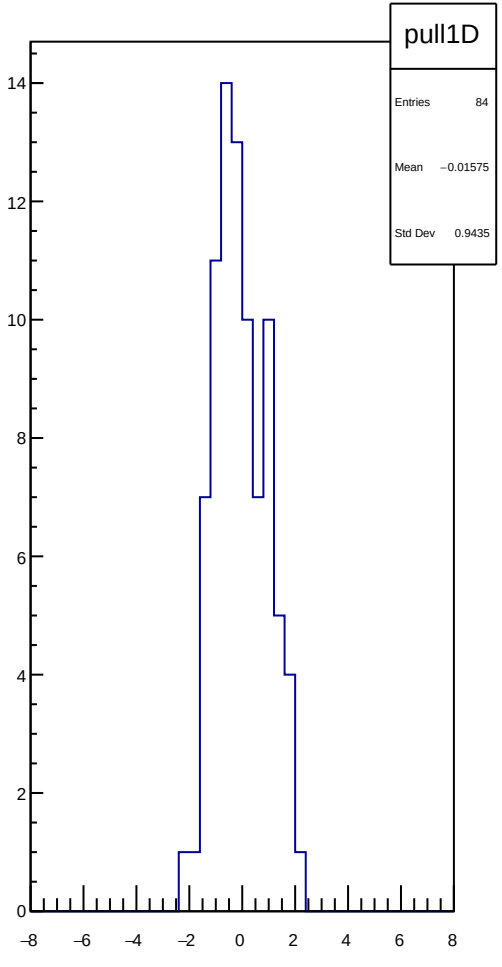

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.086e+04 / 83
p0 919.4 ± 0.7219
1200
1150
1100
1050
1000
950
900
850
800
750

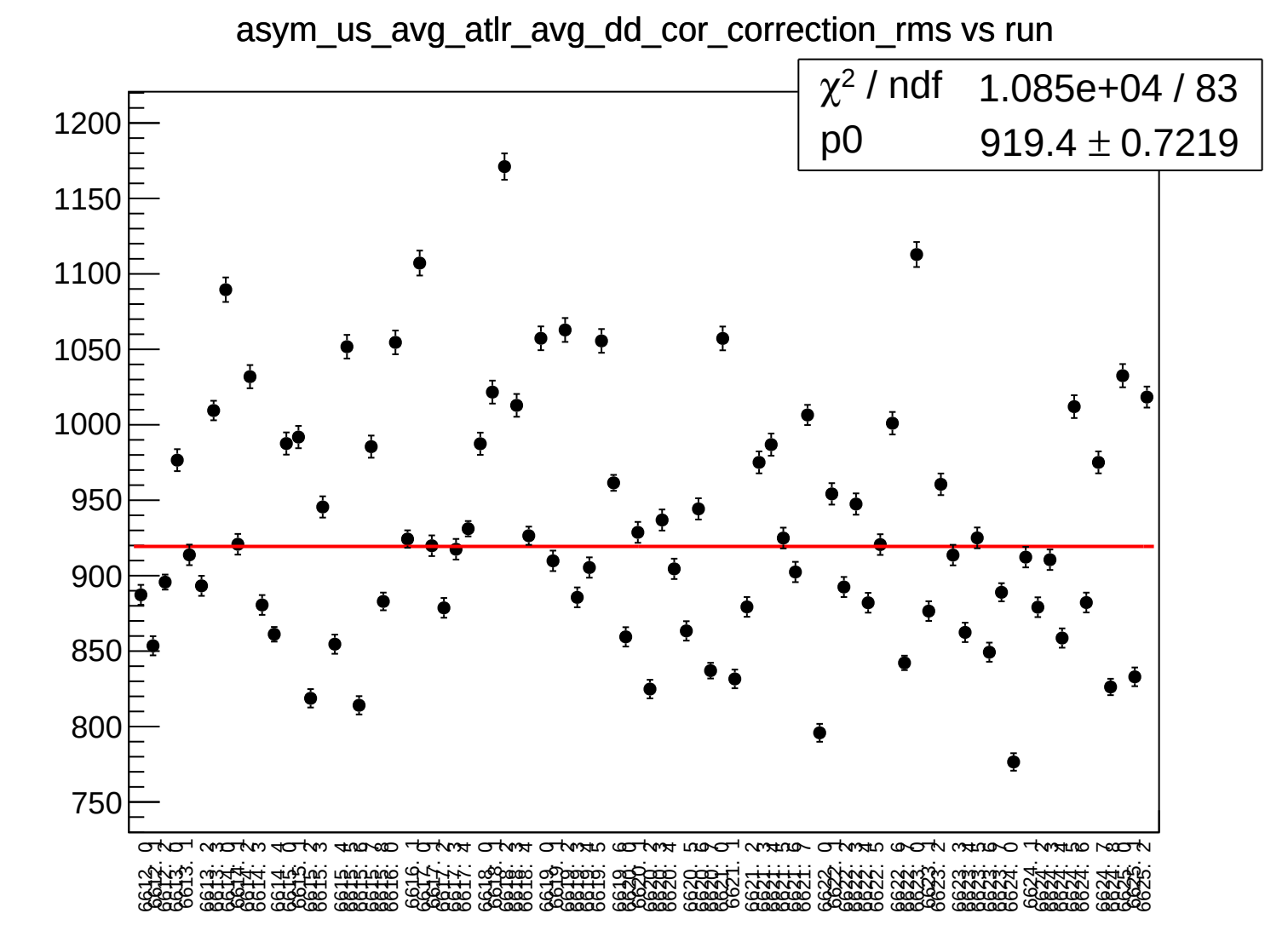

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 84.97 / 83
p0 −3836 ± 2271
pull
Entries 84
Mean −157.6
Std Dev 0

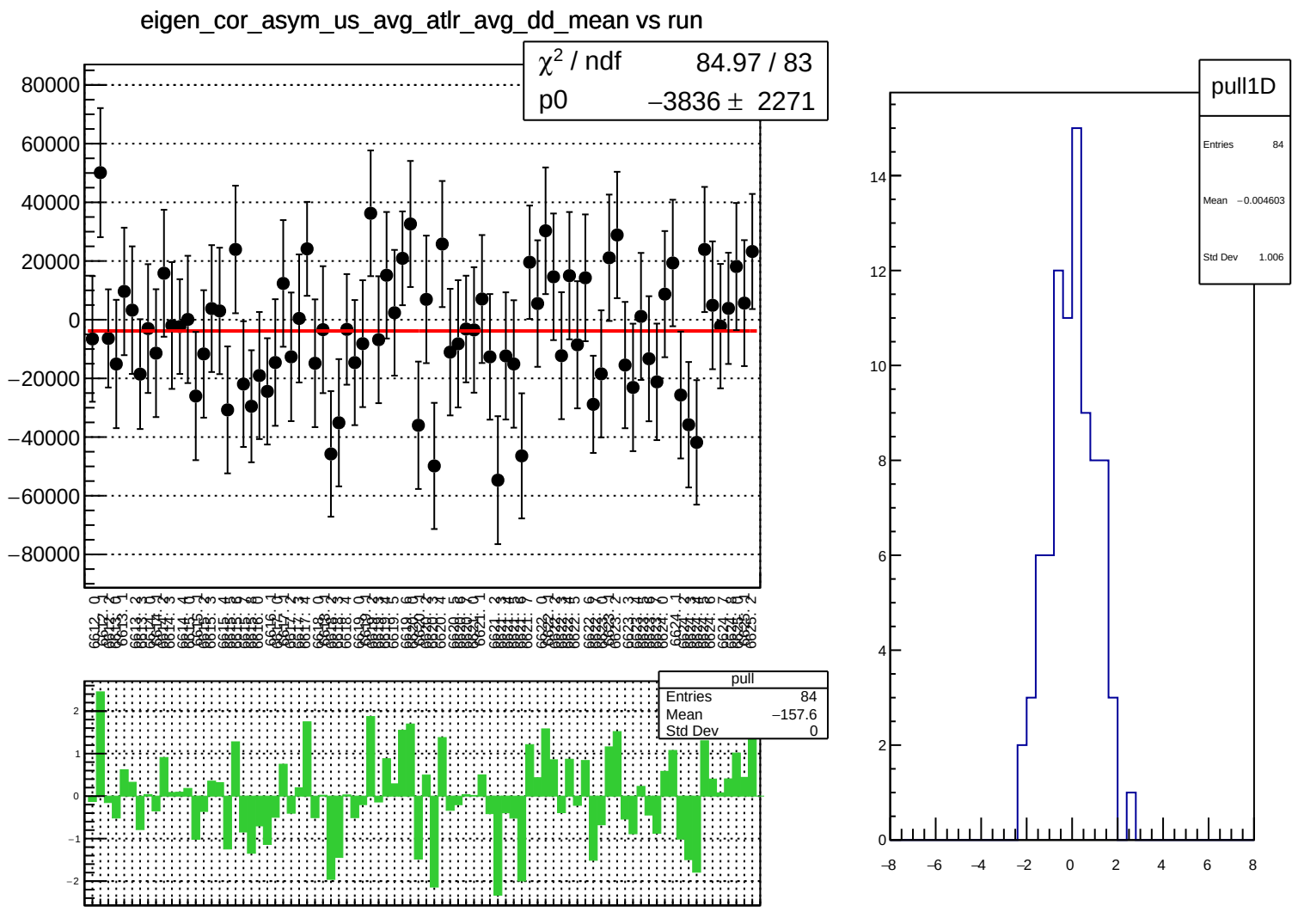

pull1D
Entries 84
Mean −0.004603
Std Dev 1.006

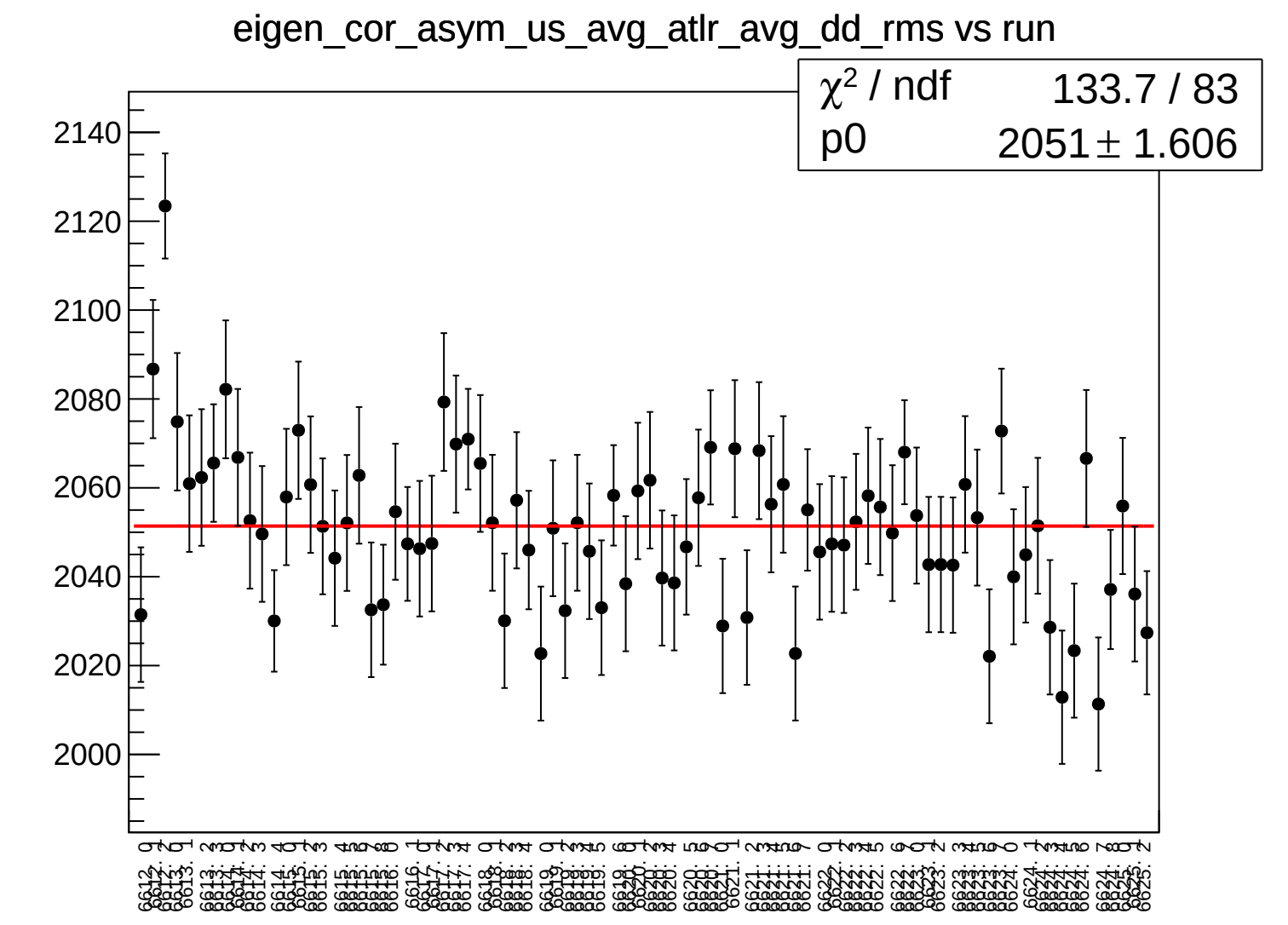

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 133.7 / 83
p0 2051 ± 1.606
2140
2120
2100
2080
2060
2040
2020
2000

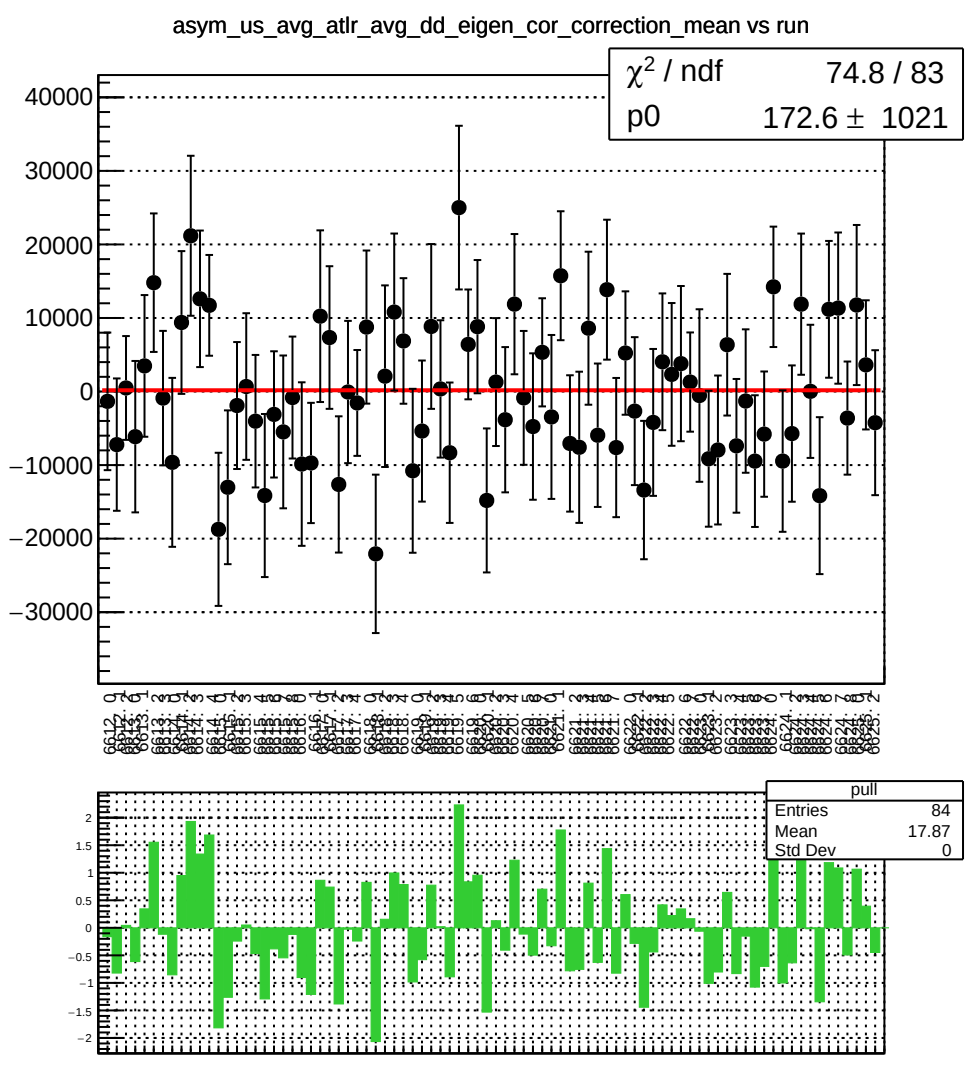

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
χ² / ndf 74.8 / 83
p0 172.6 ± 1021
pull
Entries 84
Mean 17.87
Std Dev 0

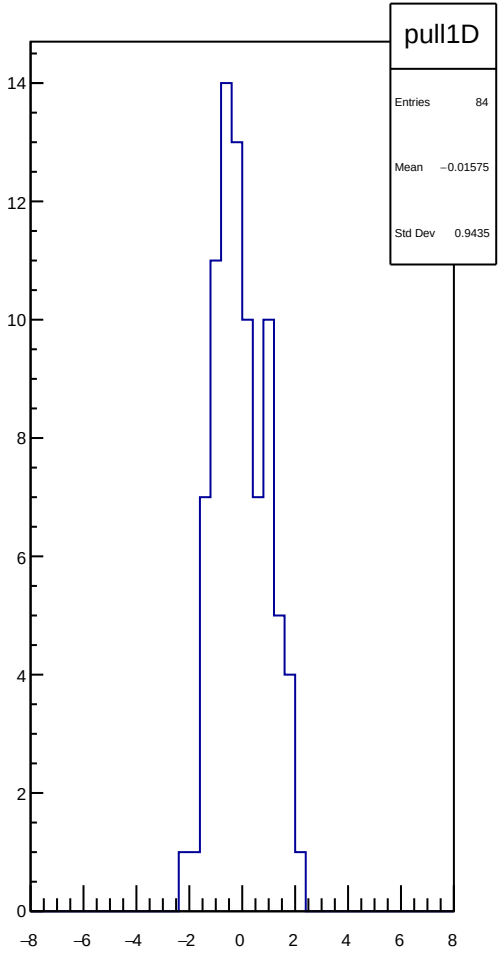

pull1D
Entries 84
Mean −0.01575
Std Dev 0.9435

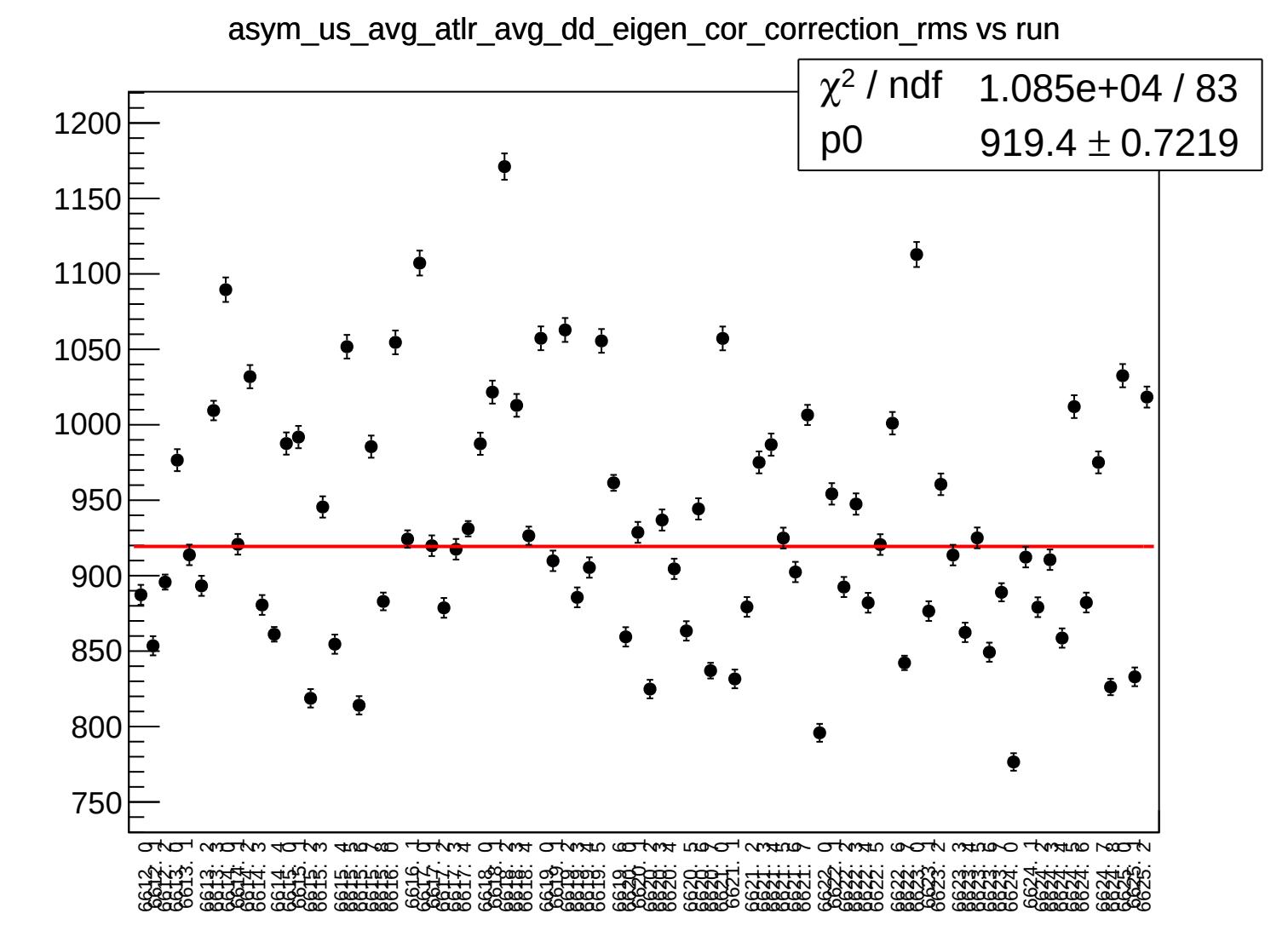

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.085e+04 / 83
p0 919.4 ± 0.7219
1200
1150
1100
1050
1000
950
900
850
800
750

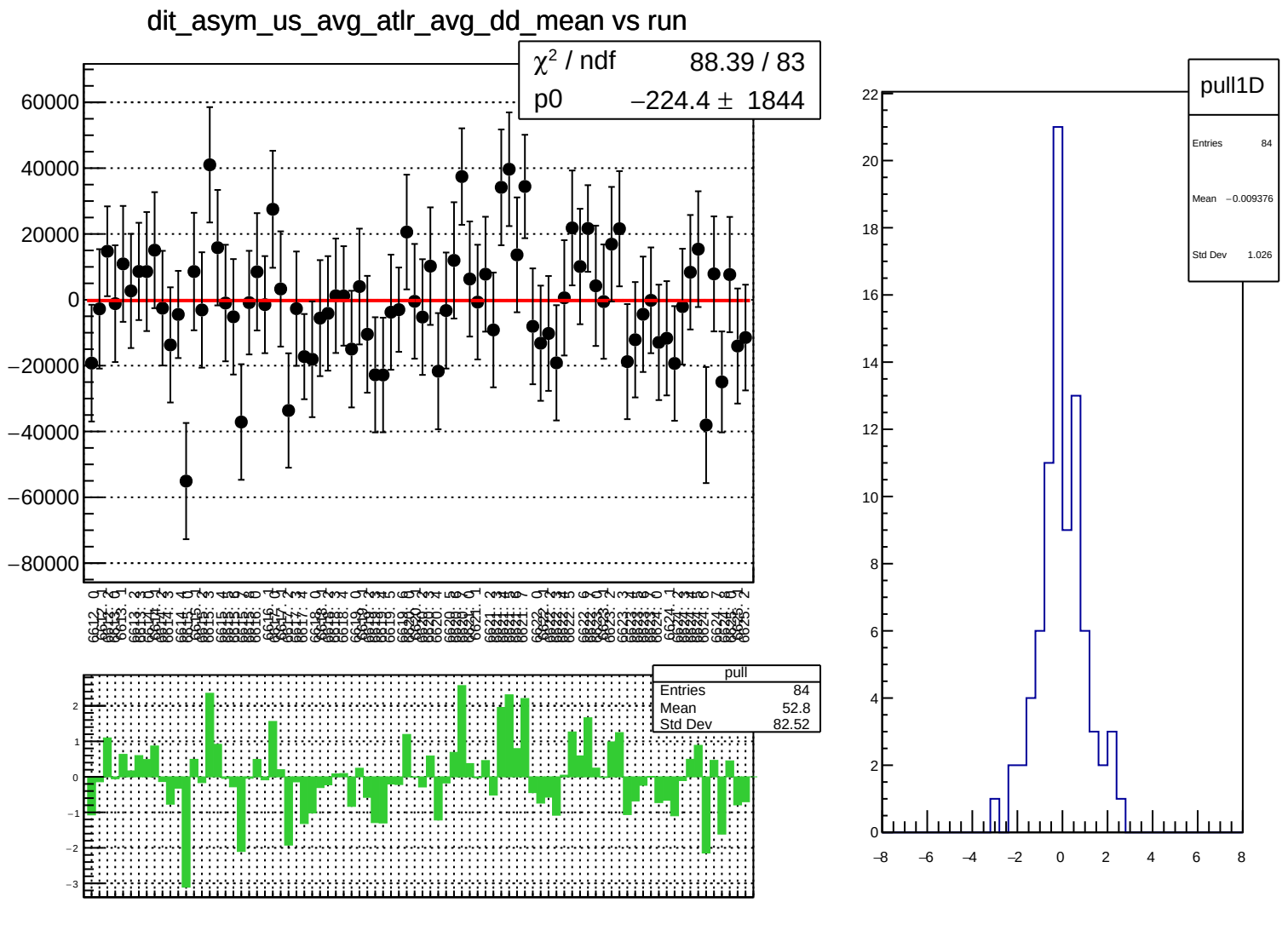

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 84.97 / 83
p0 −3836 ± 2271
pull
Entries 84
Mean −157.6
Std Dev 0
pull1D
Entries 84
Mean −0.004603
Std Dev 1.006

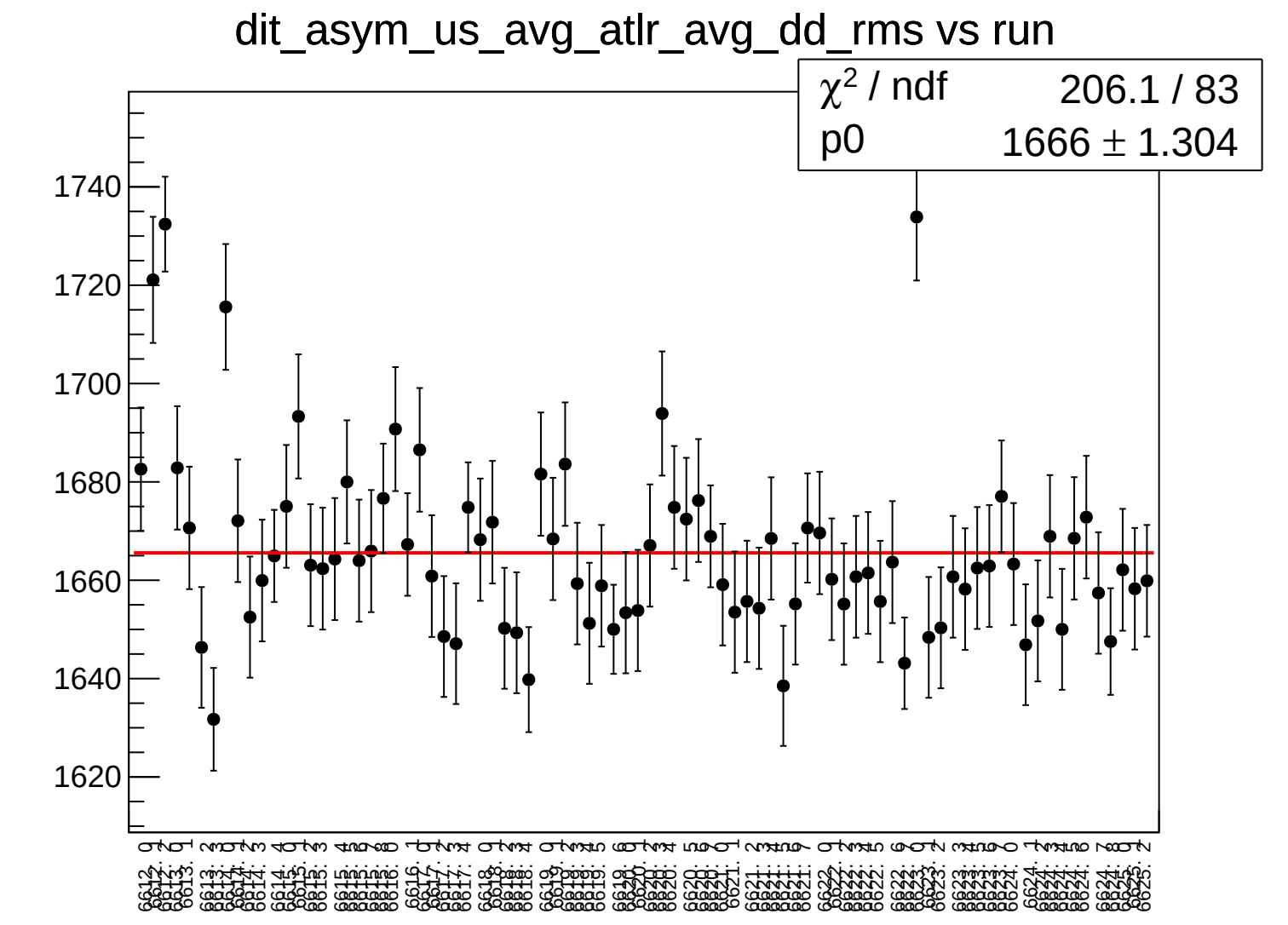

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 133.7 / 83
p0 2051 ± 1.606
2140
2120
2100
2080
2060
2040
2020
2000

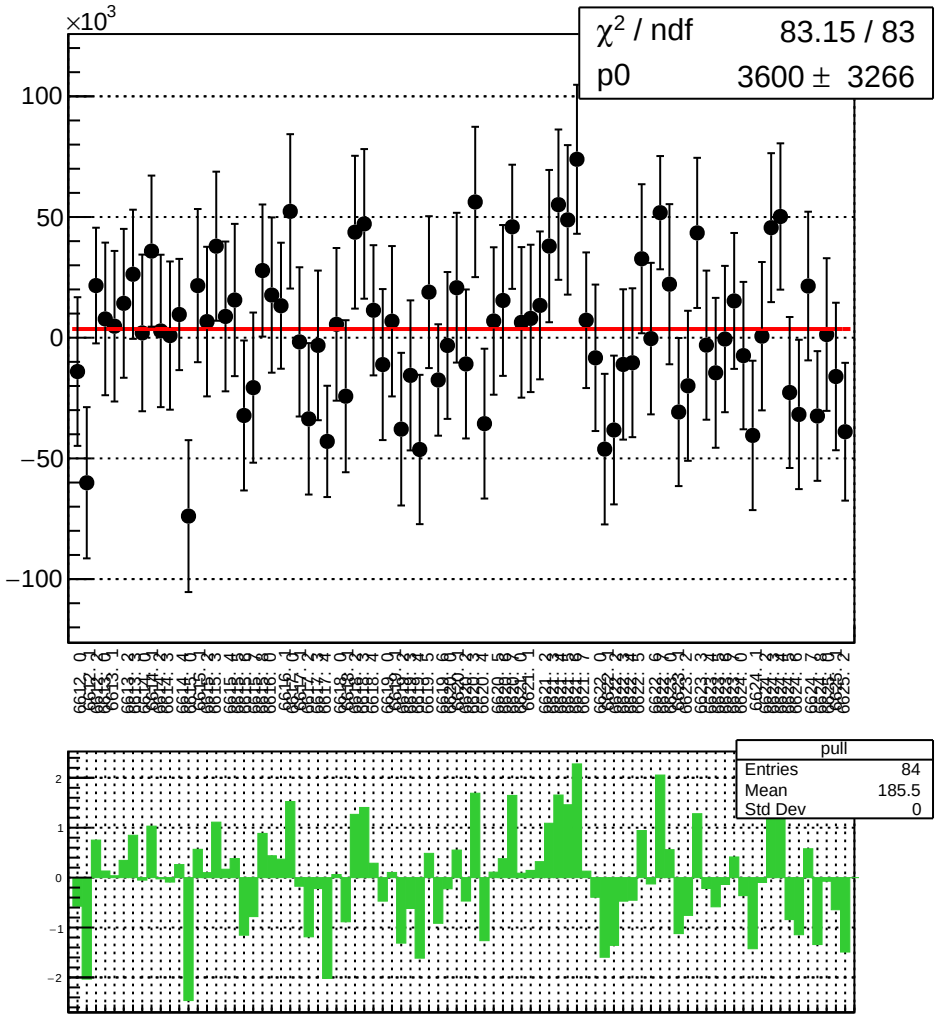

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.8 / 83
p0 172.6 ± 1021
pull
Entries 84
Mean 17.87
Std Dev 0

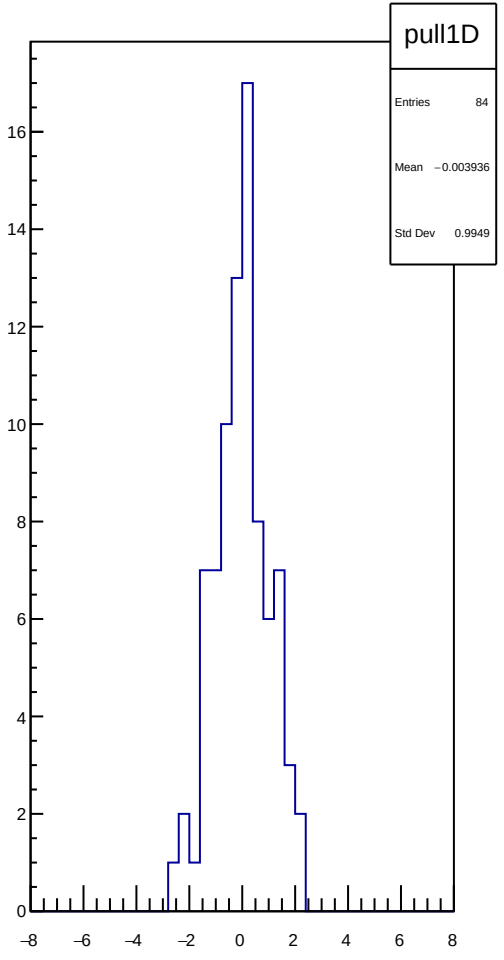

pull1D
Entries 84
Mean −0.01575
Std Dev 0.9435

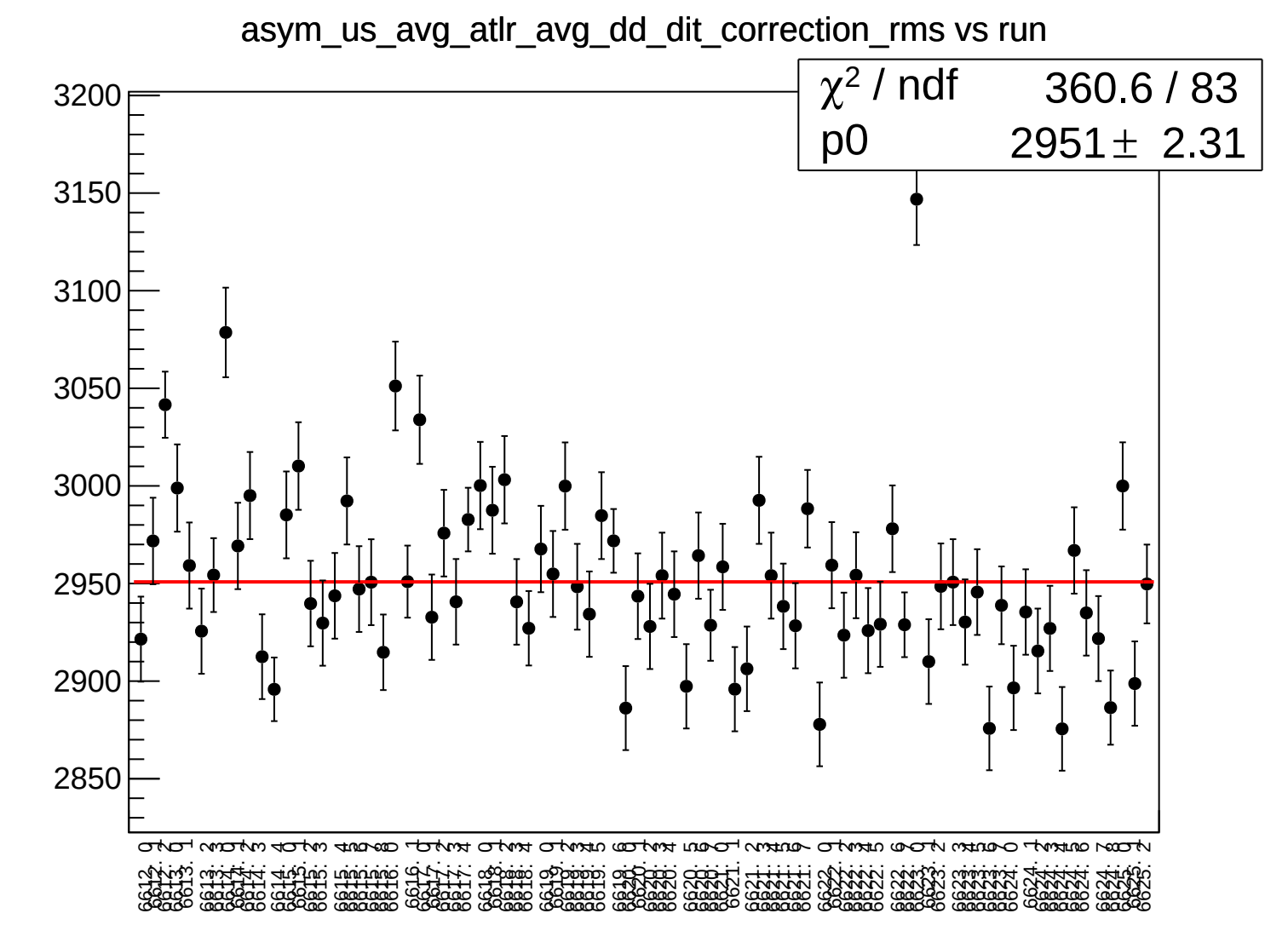

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.085e+04 / 83
p0 919.4 ± 0.7219
1200
1150
1100
1050
1000
950
900
850
800
750

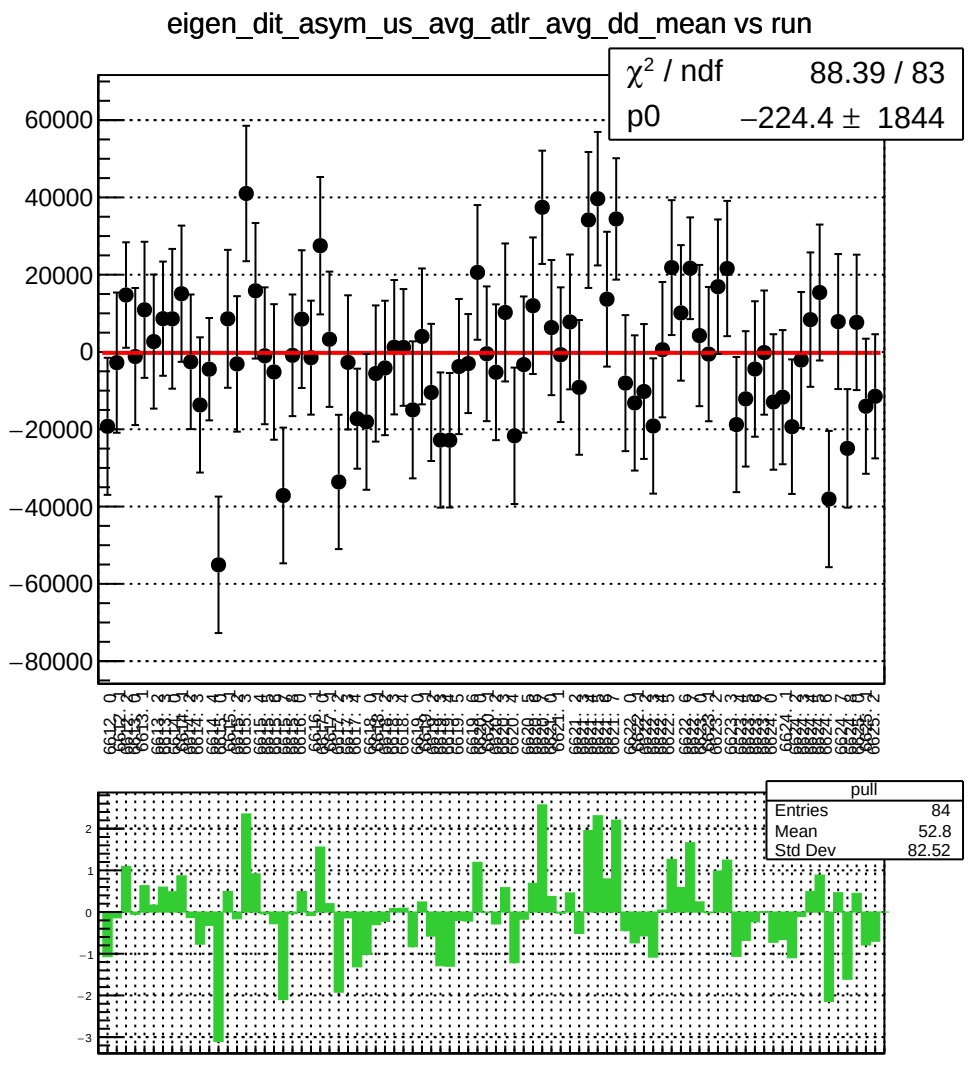

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 88.39 / 83
p0 −224.4 ± 1844
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 52.8
Std Dev 82.52
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.009376
Std Dev 1.026
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

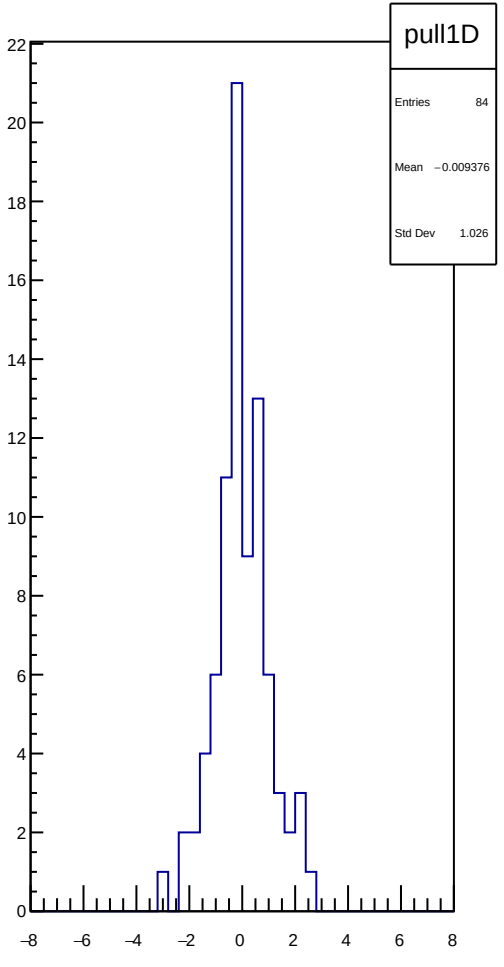

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 206.1 / 83
p0 1666 ± 1.304
1740
1720
1700
1680
1660
1640
1620

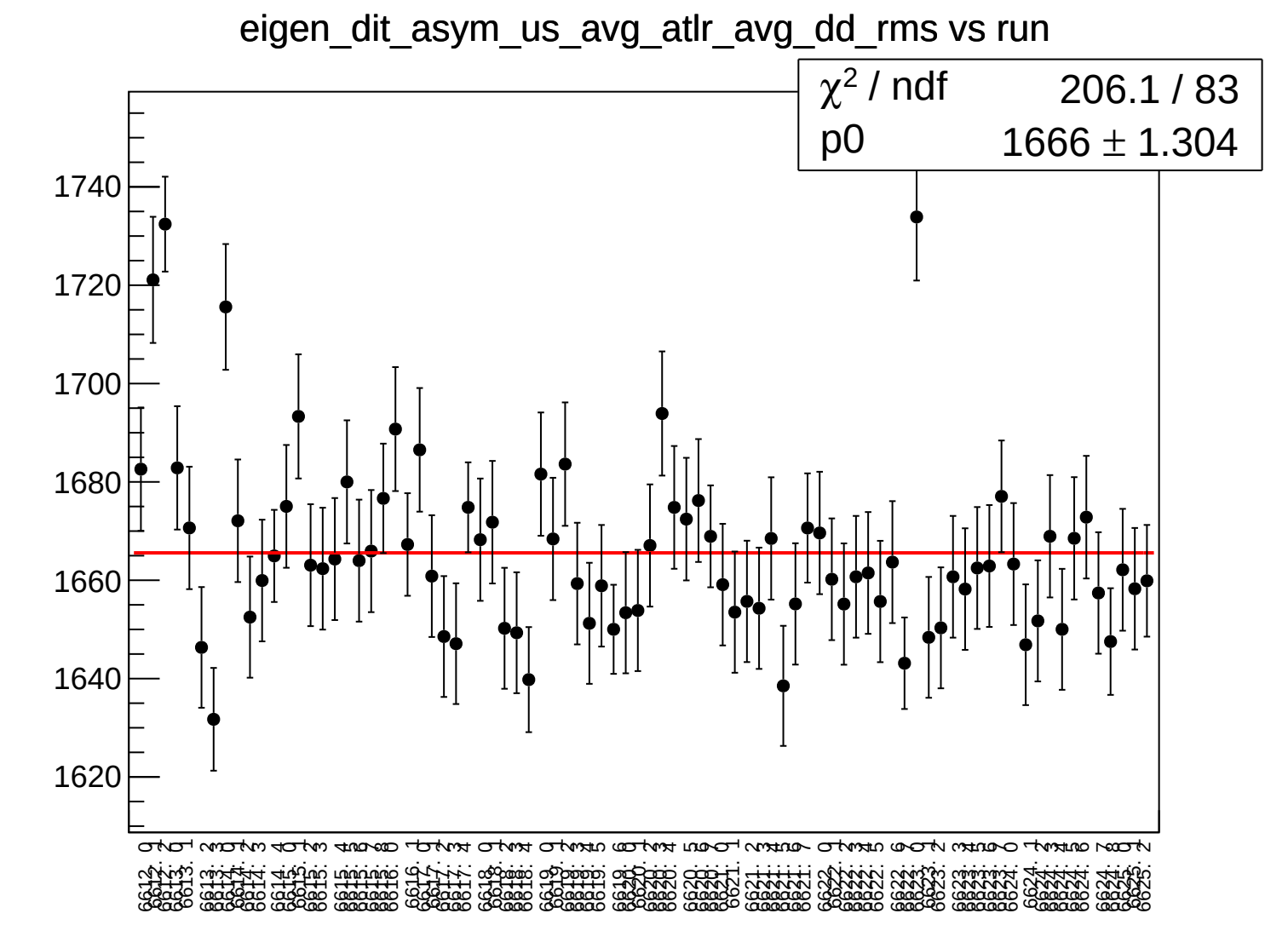

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 83.15 / 83
p0 3600 ± 3266
100
50
0
−50
−100
pull
Entries 84
Mean 185.5
Std Dev 0
2
1
0
−1
−2

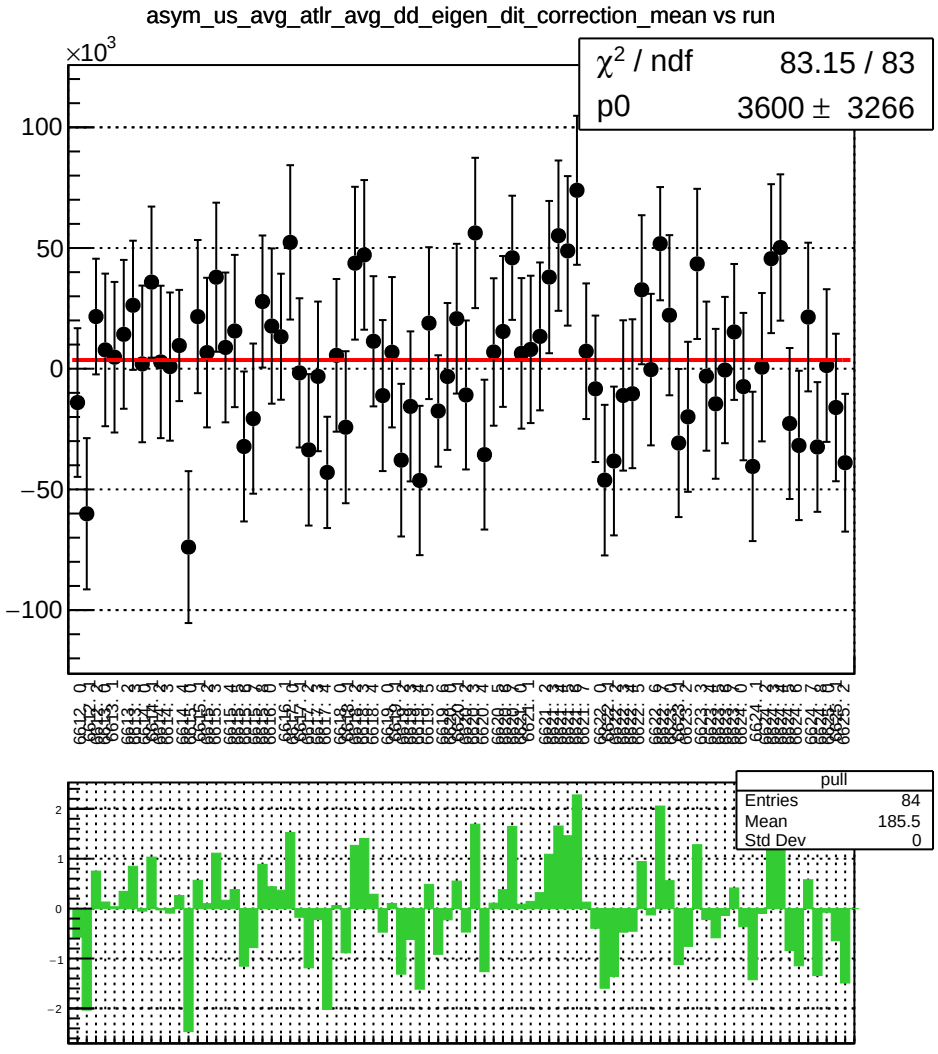

pull1D
Entries 84
Mean −0.003936
Std Dev 0.9949
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

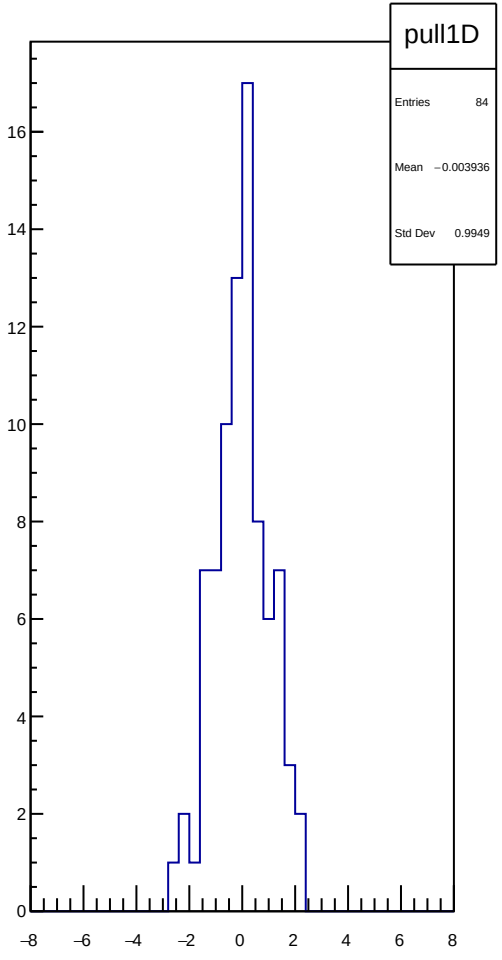

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 360.6 / 83
p0 2951 ± 2.31
3200
3150
3100
3050
3000
2950
2900
2850

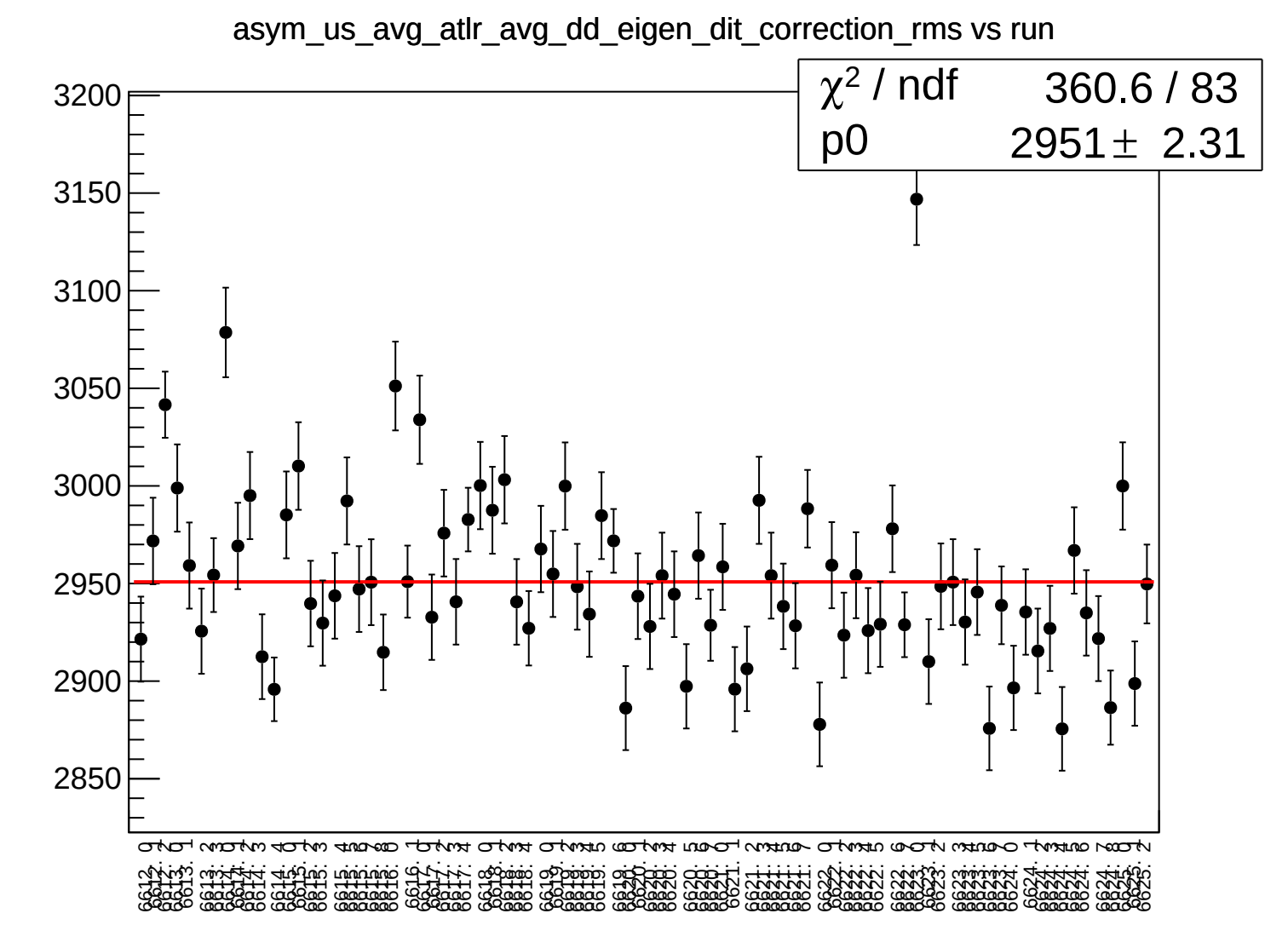

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 88.39 / 83
p0 −224.4 ± 1844
pull
Entries 84
Mean 52.8
Std Dev 82.52

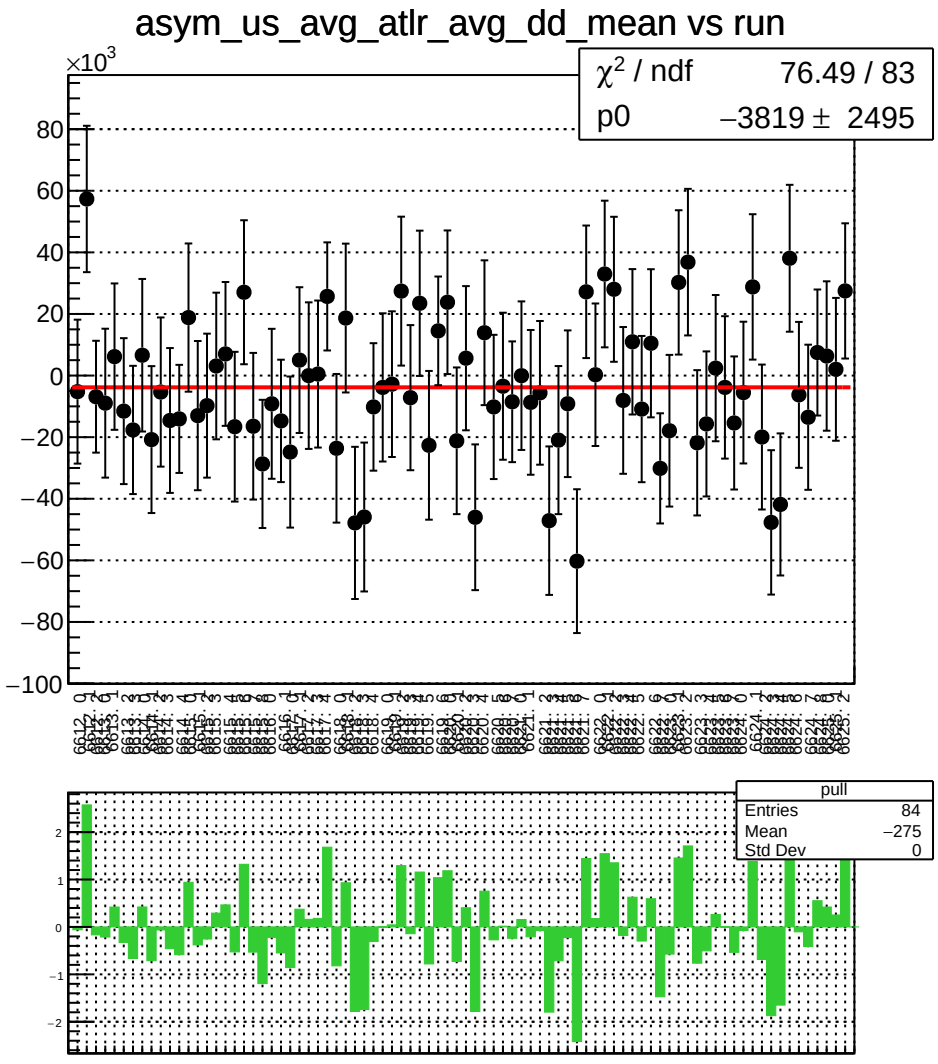

pull1D
Entries 84
Mean −0.009376
Std Dev 1.026

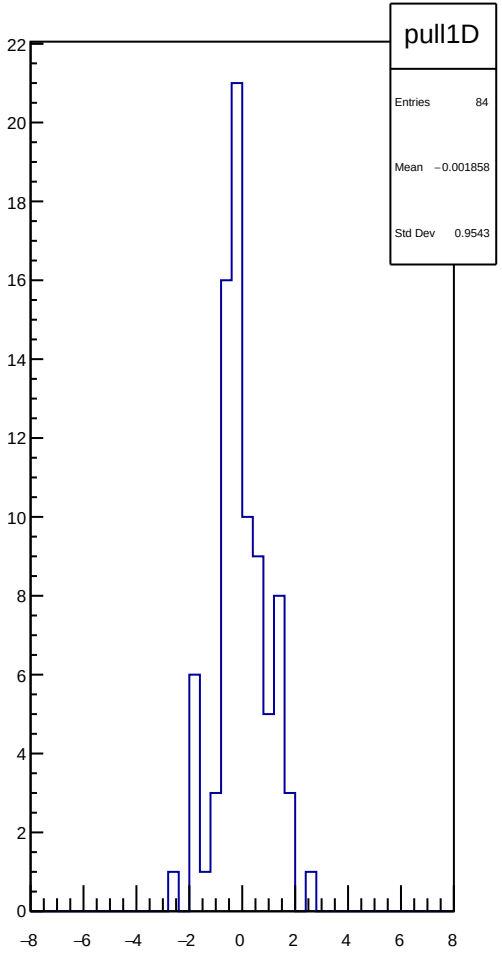

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 206.1 / 83
p0 1666 ± 1.304
1740
1720
1700
1680
1660
1640
1620

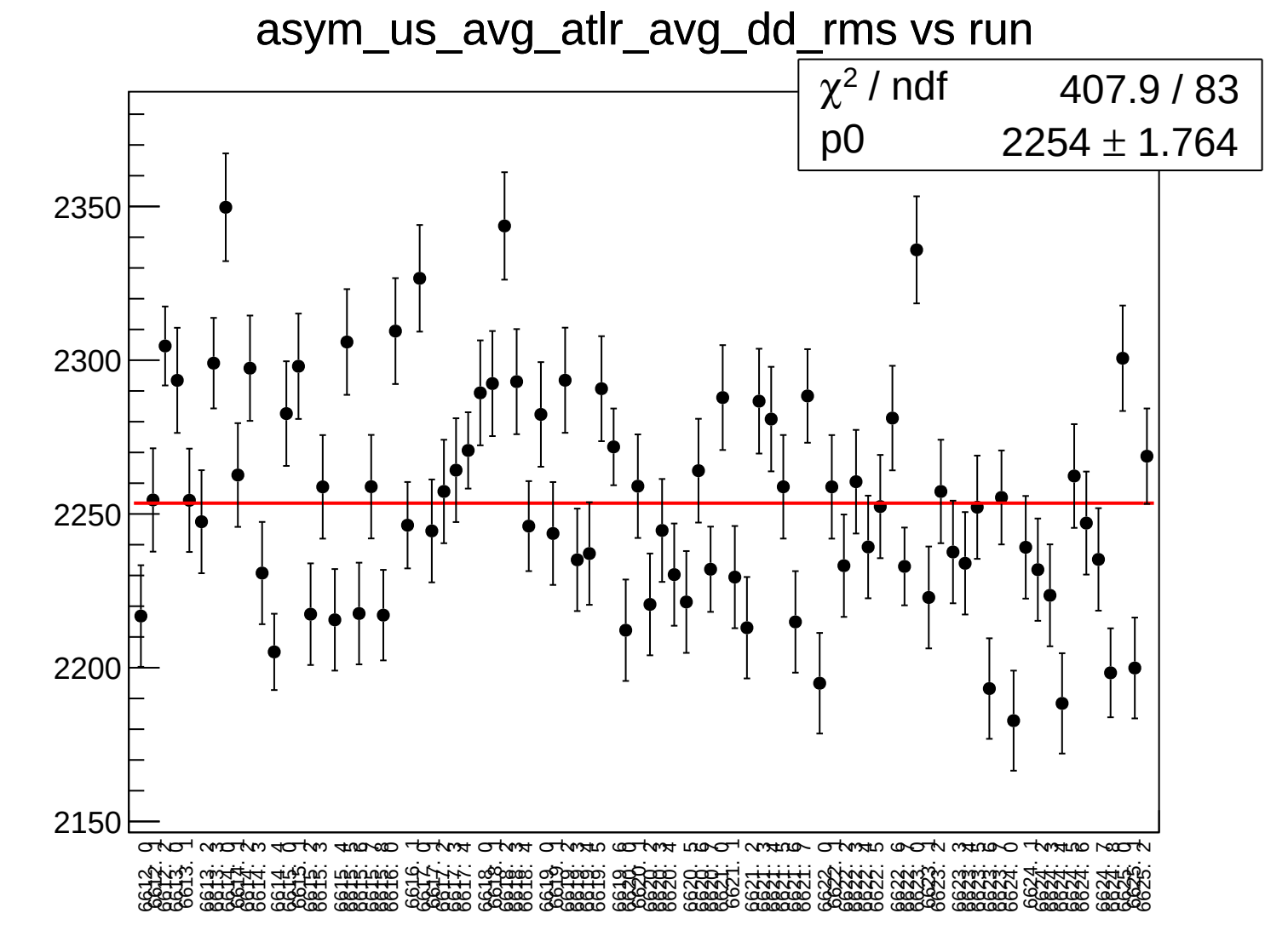

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 83.15 / 83
p0 3600 ± 3266
100
50
0
−50
−100
pull
Entries 84
Mean 185.5
Std Dev 0
2
1
0
−1
−2

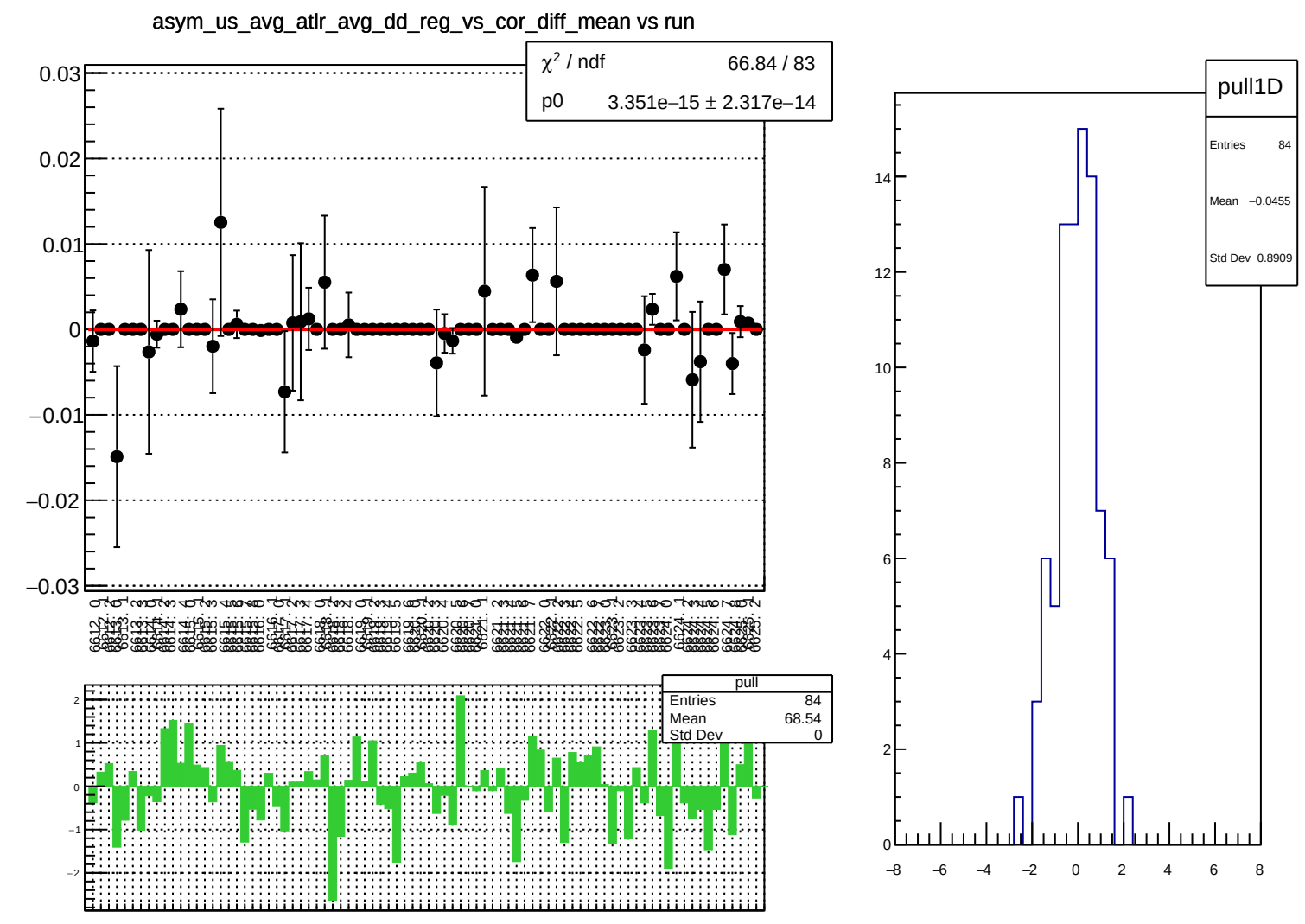

pull1D
Entries 84
Mean −0.003936
Std Dev 0.9949
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

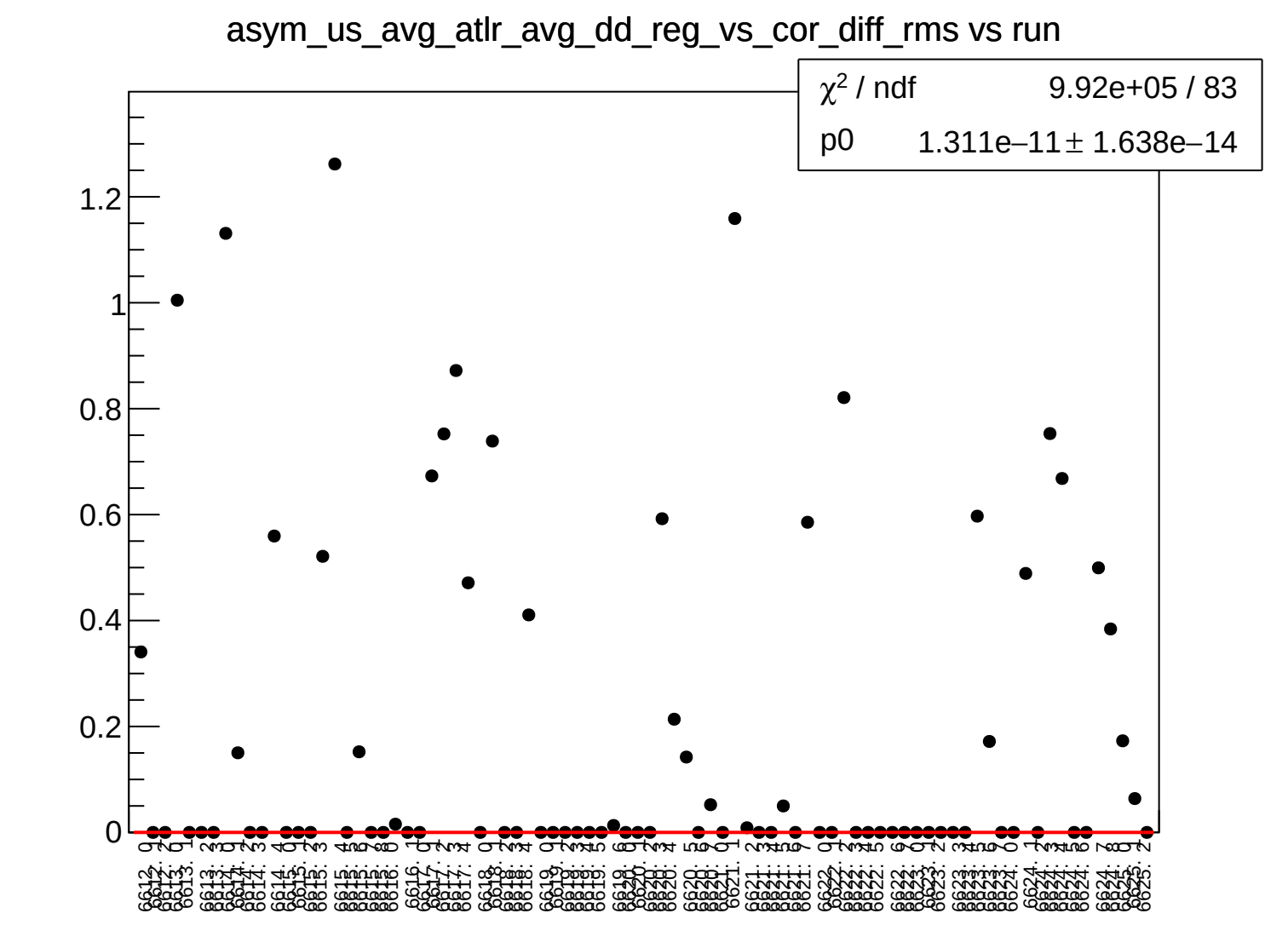

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 360.6 / 83
p0 2951 ± 2.31
3200
3150
3100
3050
3000
2950
2900
2850

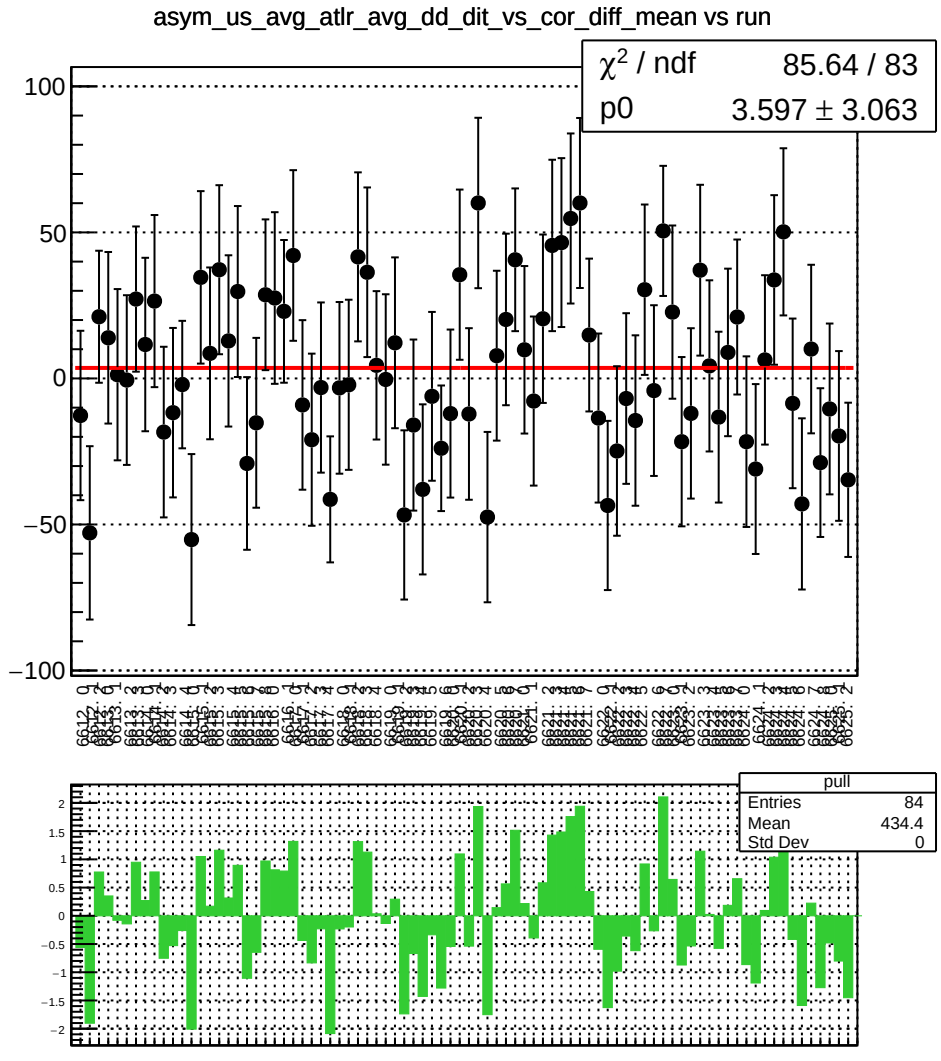

asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 76.49 / 83
p0 −3819 ± 2495
×10³
pull
Entries 84
Mean −275
Std Dev 0

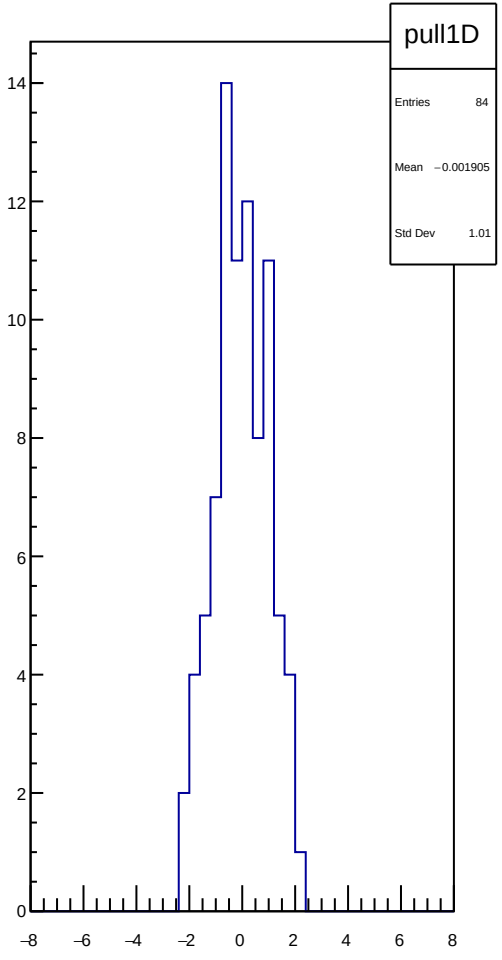

pull1D
Entries 84
Mean −0.001858
Std Dev 0.9543

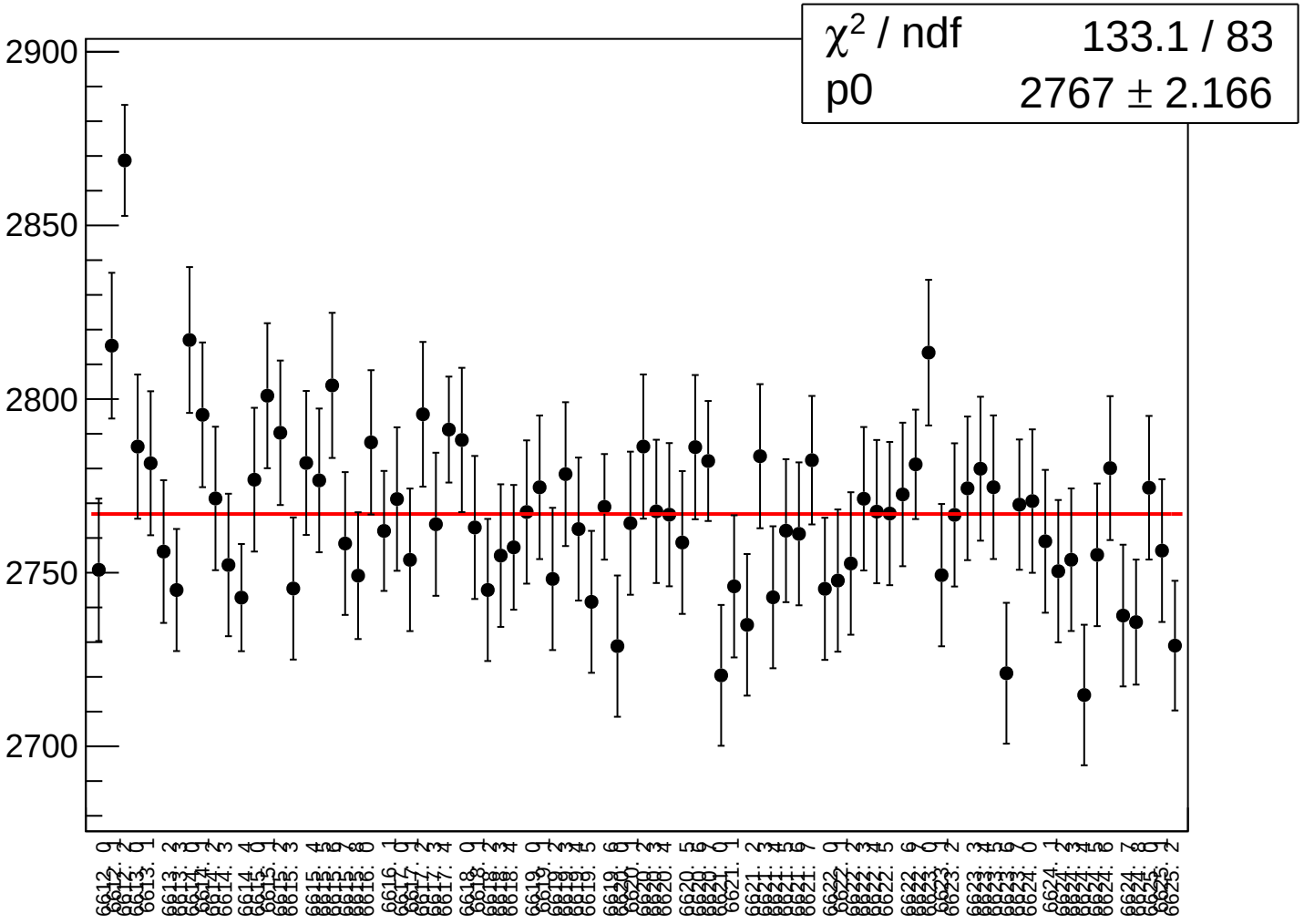

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 407.9 / 83
p0 2254 ± 1.764
2350
2300
2250
2200
2150

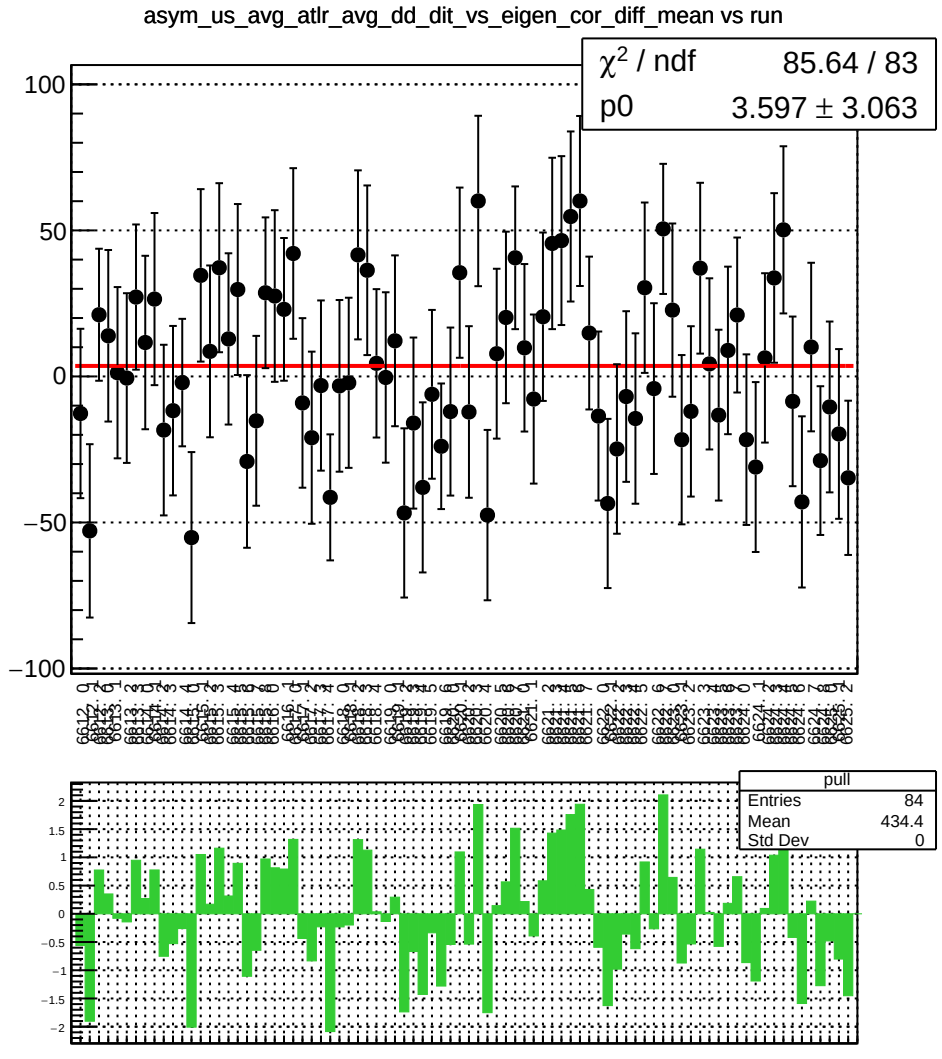

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 66.84 / 83
p0 3.351e−15 ± 2.317e−14
pull
Entries 84
Mean 68.54
Std Dev 0
pull1D
Entries 84
Mean −0.0455
Std Dev 0.8909

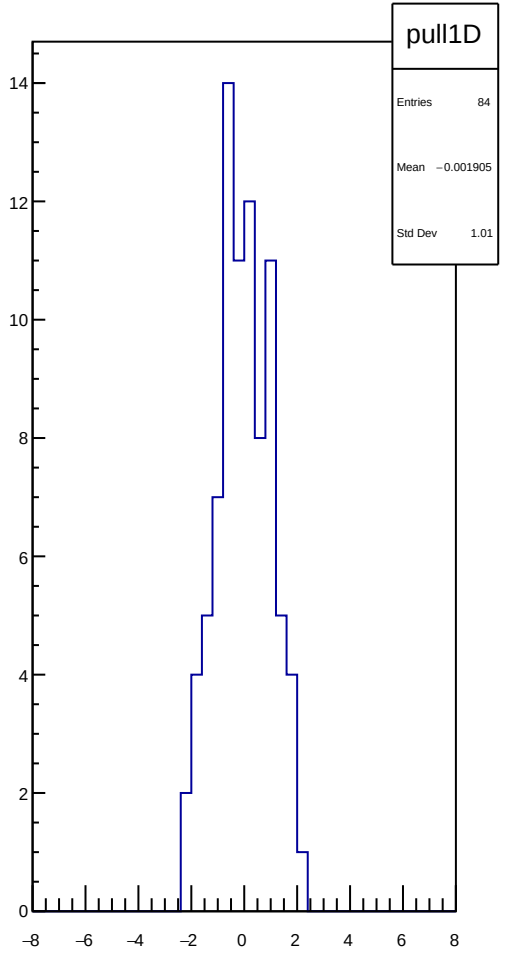

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.92e+05 / 83
p0 1.311e−11 ± 1.638e−14
1.2
1
0.8
0.6
0.4
0.2
0

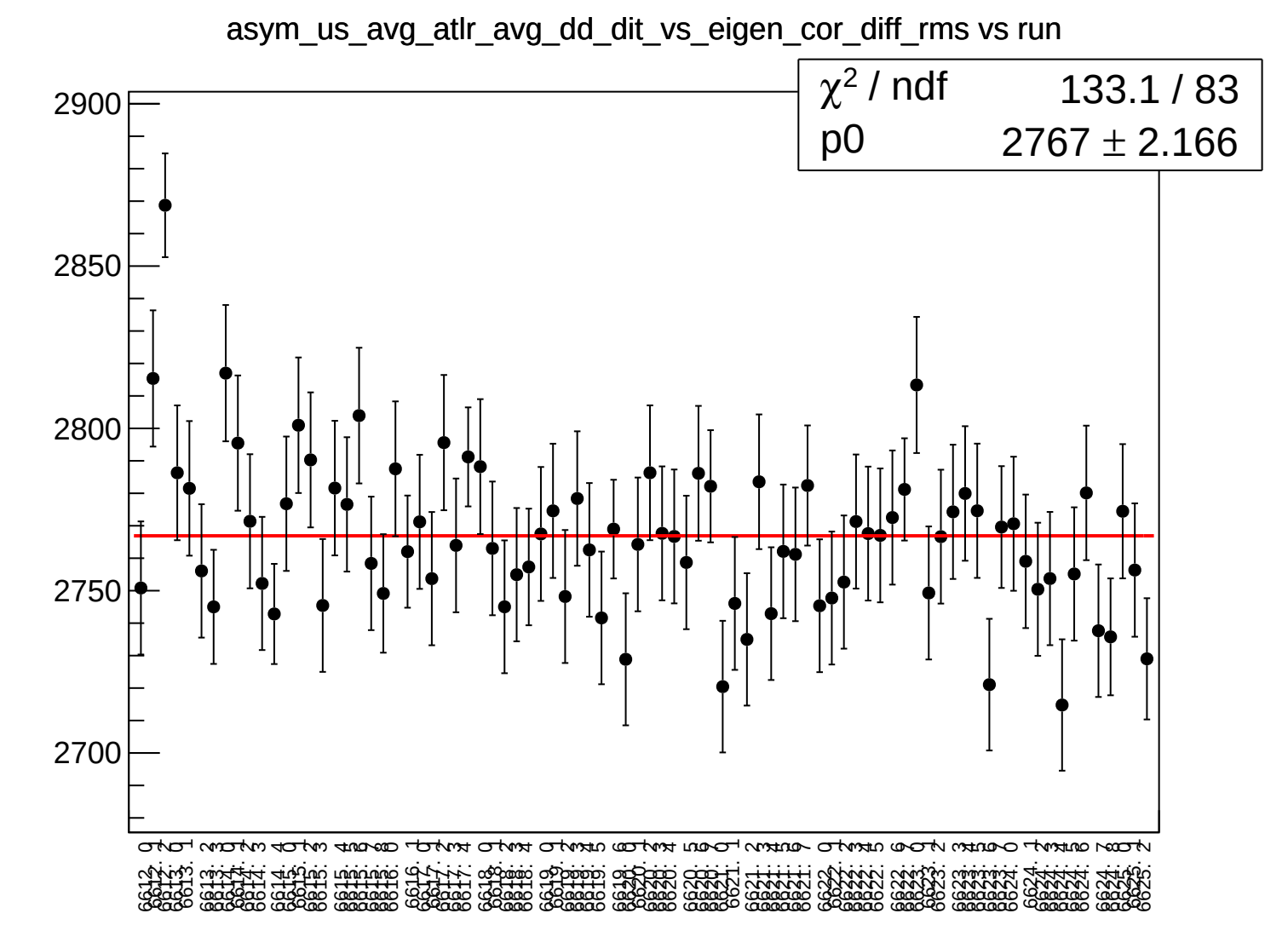

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.64 / 83
p0 3.597 ± 3.063
pull
Entries 84
Mean 434.4
Std Dev 0

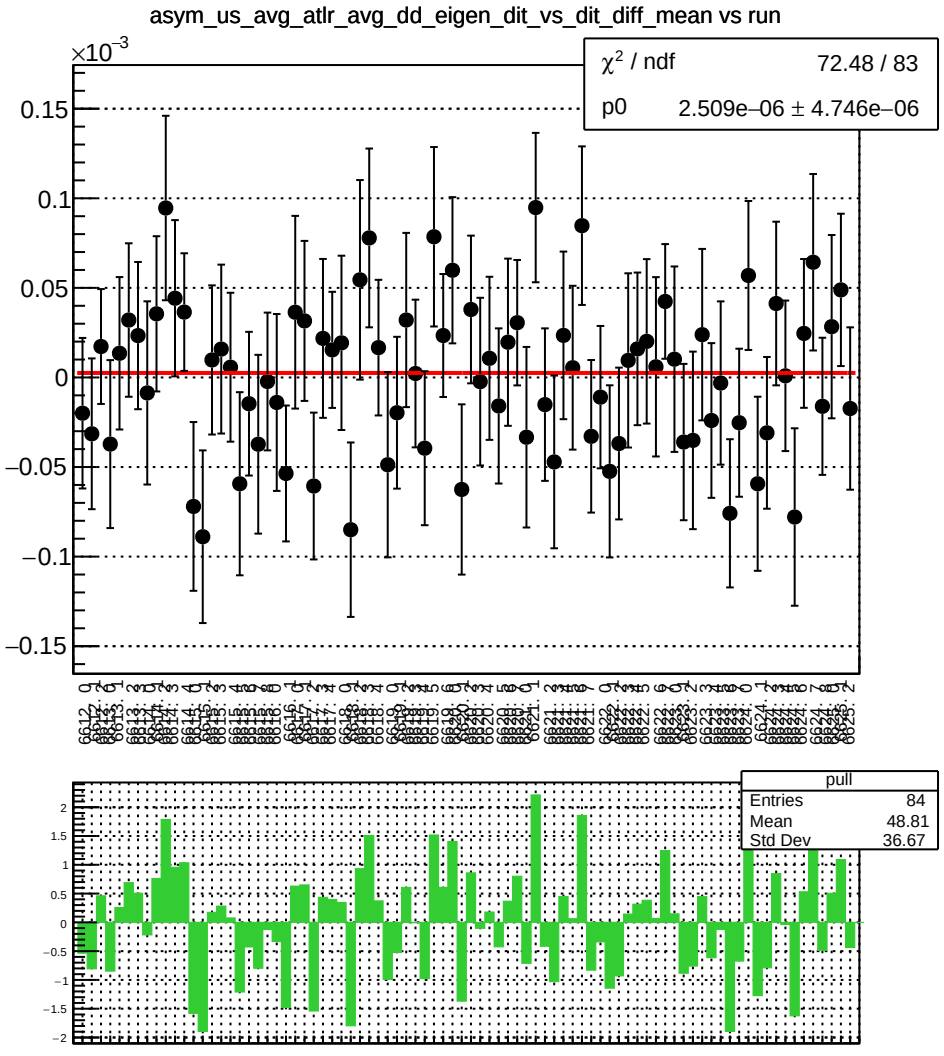

pull1D
Entries 84
Mean −0.001905
Std Dev 1.01

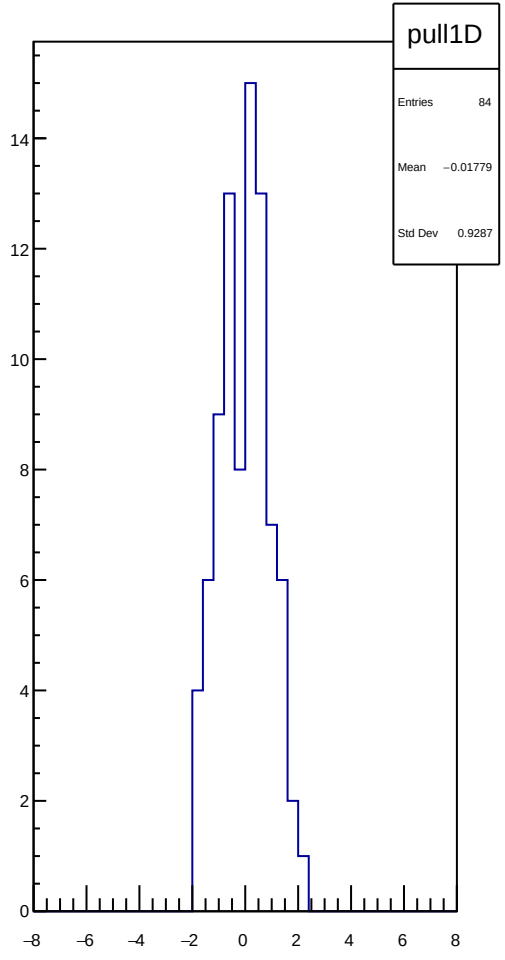

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 133.1 / 83
p0 2767 ± 2.166
2900
2850
2800
2750
2700

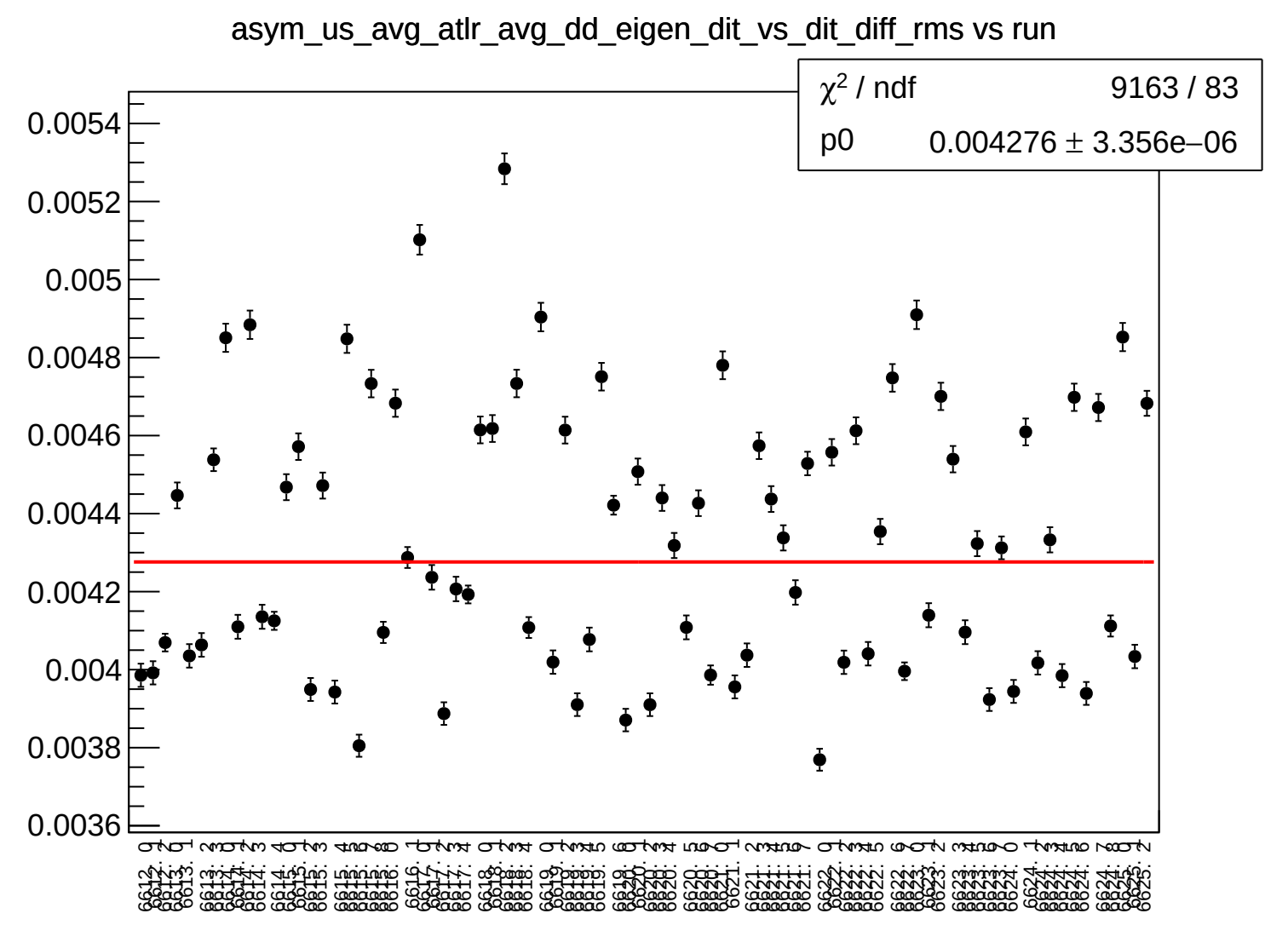

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.64 / 83
p0 3.597 ± 3.063
100
50
0
−50
−100
pull
Entries 84
Mean 434.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

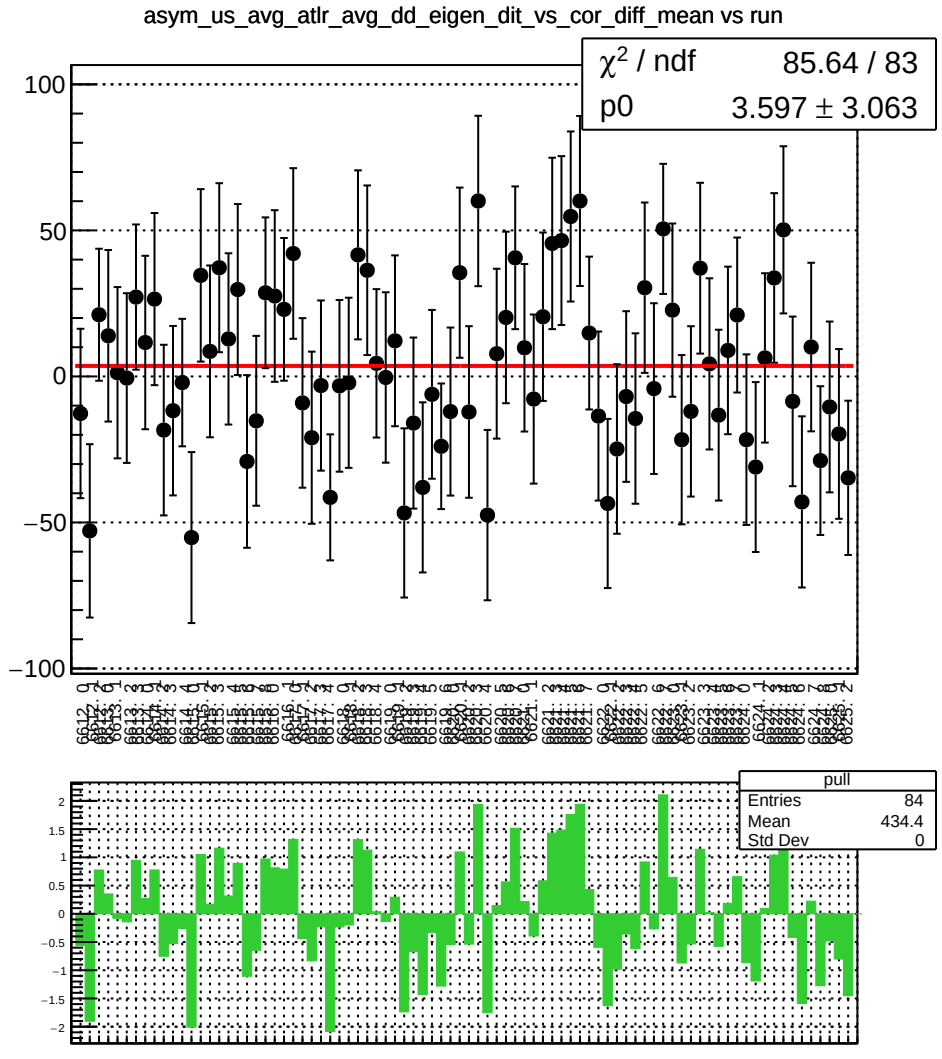

pull1D
Entries 84
Mean −0.001905
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

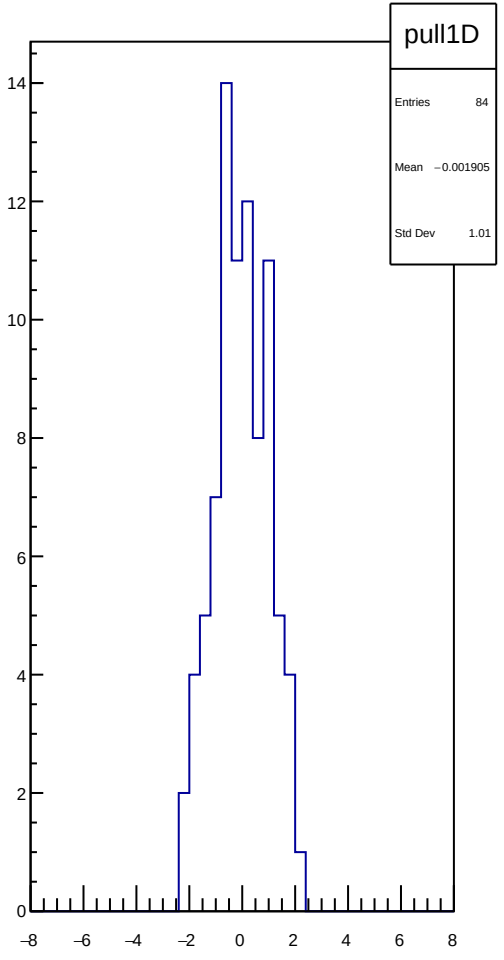

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 133.1 / 83
p0 2767 ± 2.166
2900
2850
2800
2750
2700

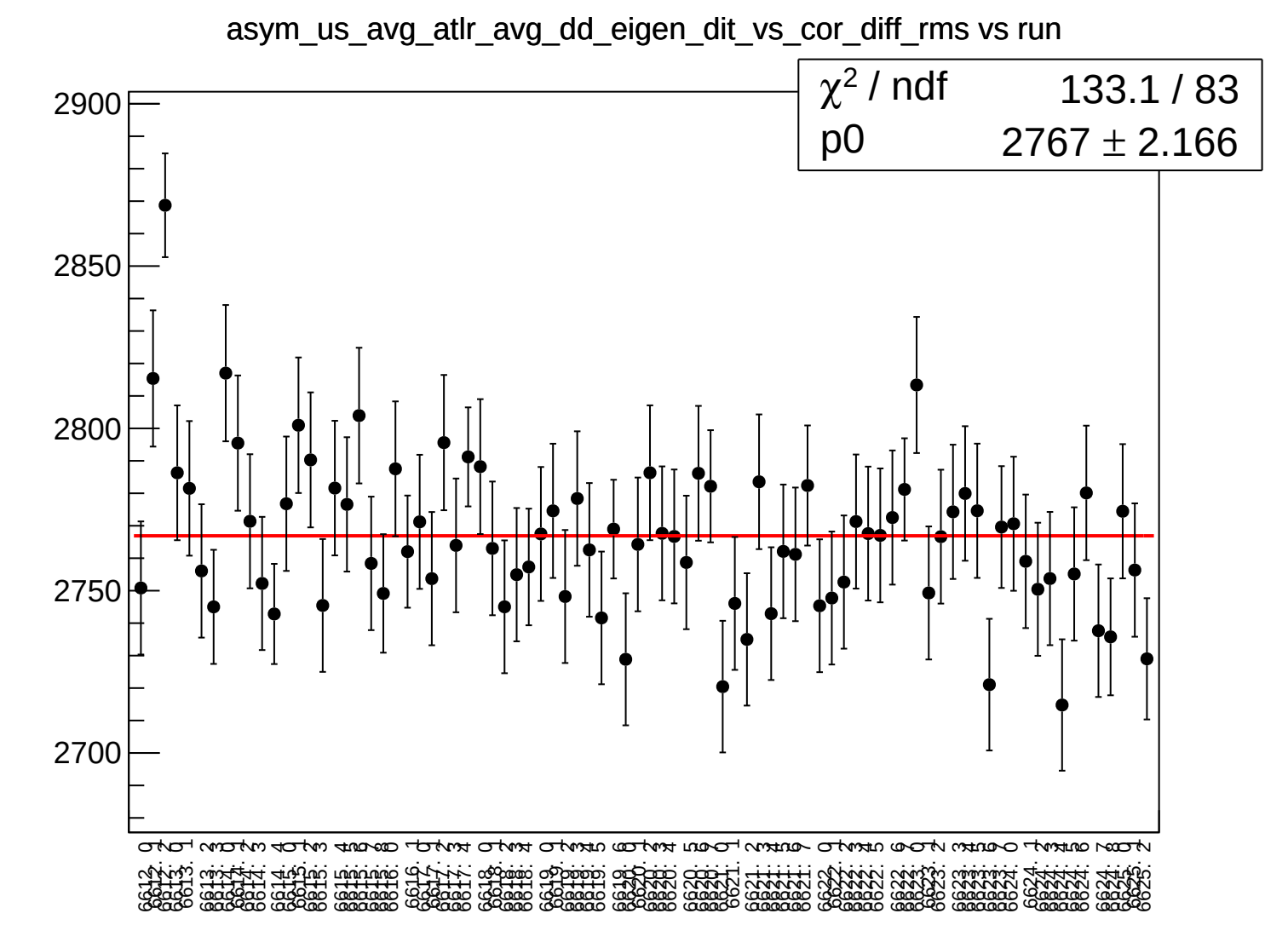

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 72.48 / 83
p0 2.509e−06 ± 4.746e−06
pull
Entries 84
Mean 48.81
Std Dev 36.67

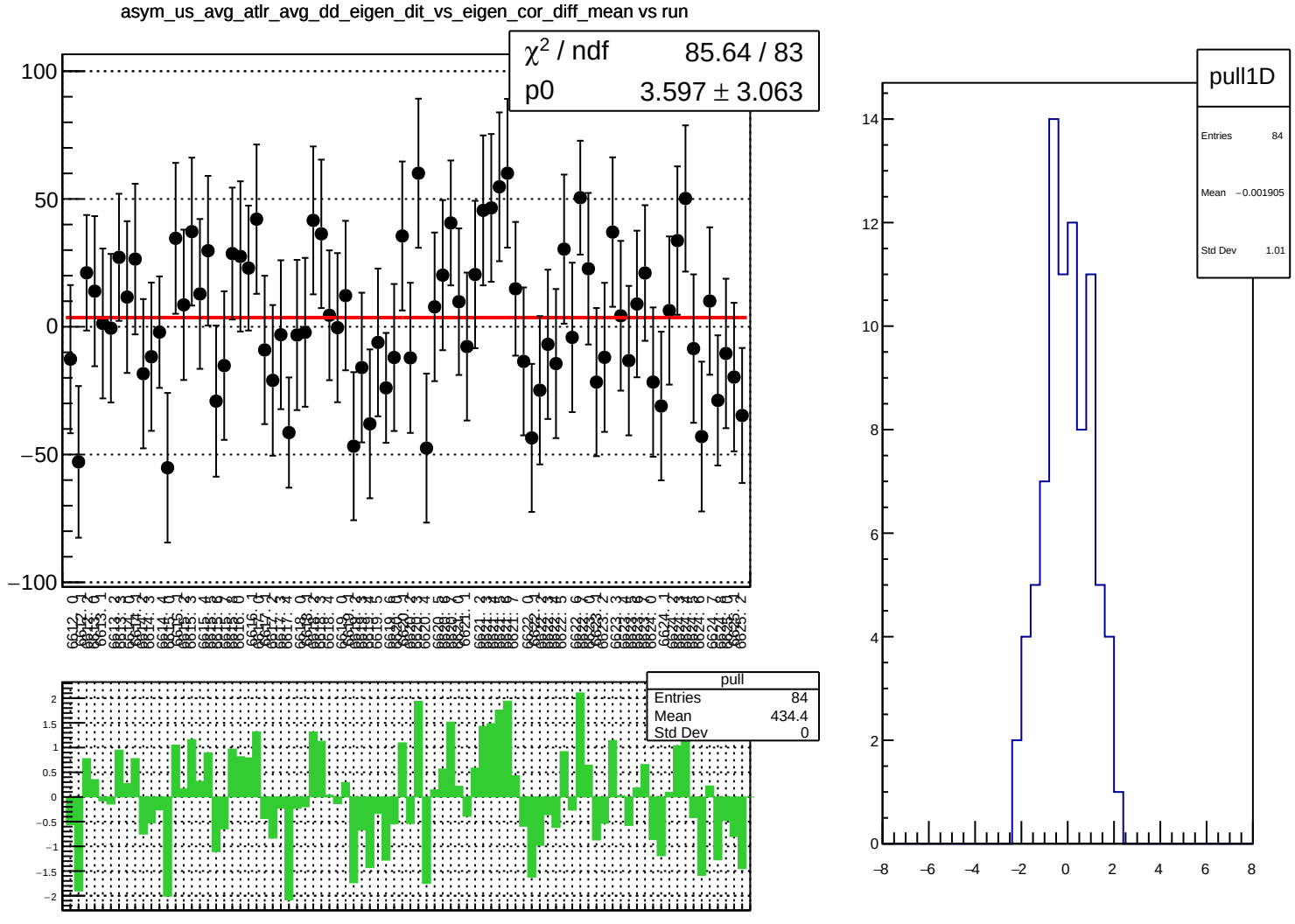

pull1D
Entries 84
Mean −0.01779
Std Dev 0.9287

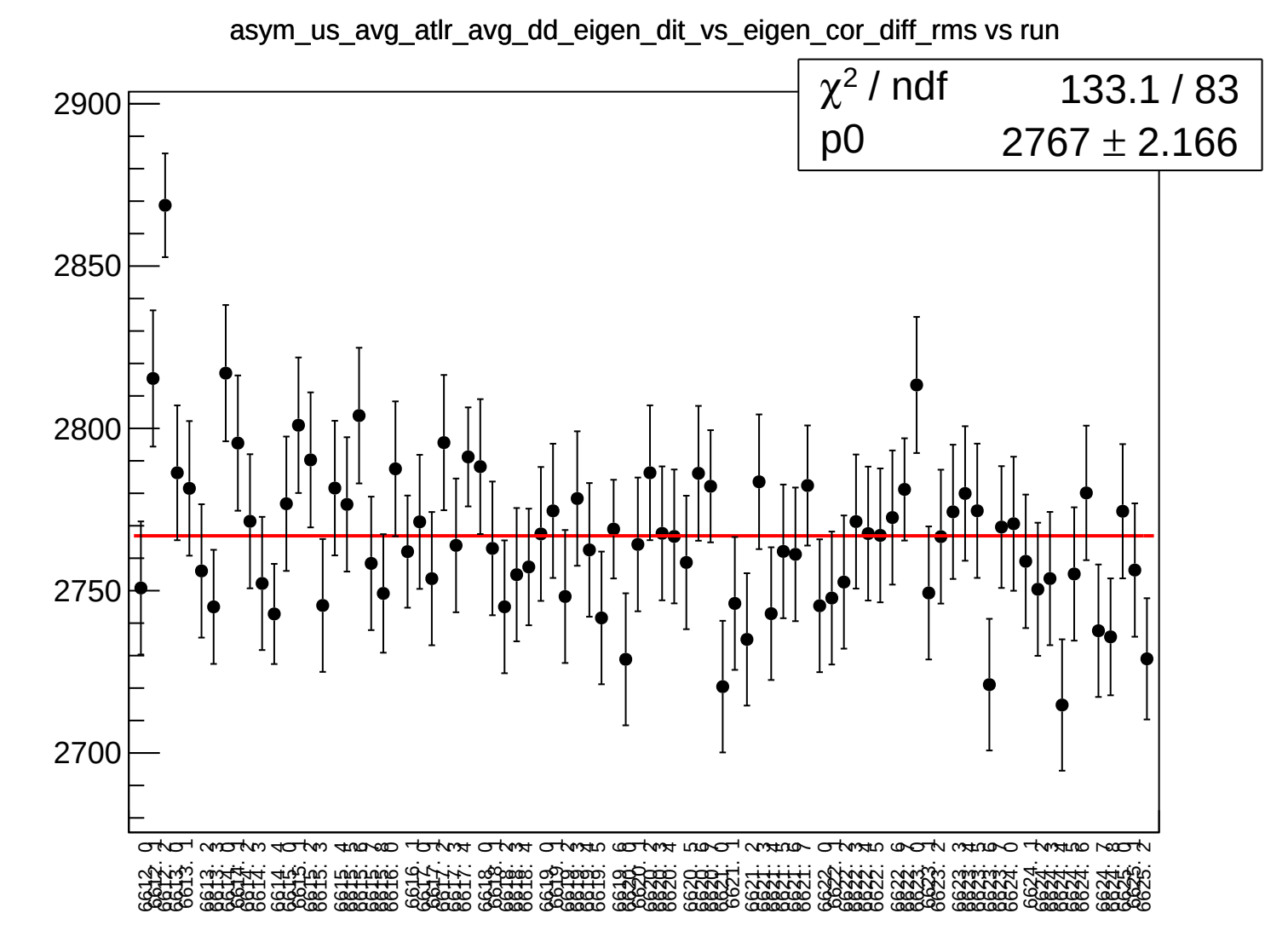

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9163 / 83
p0 0.004276 ± 3.356e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

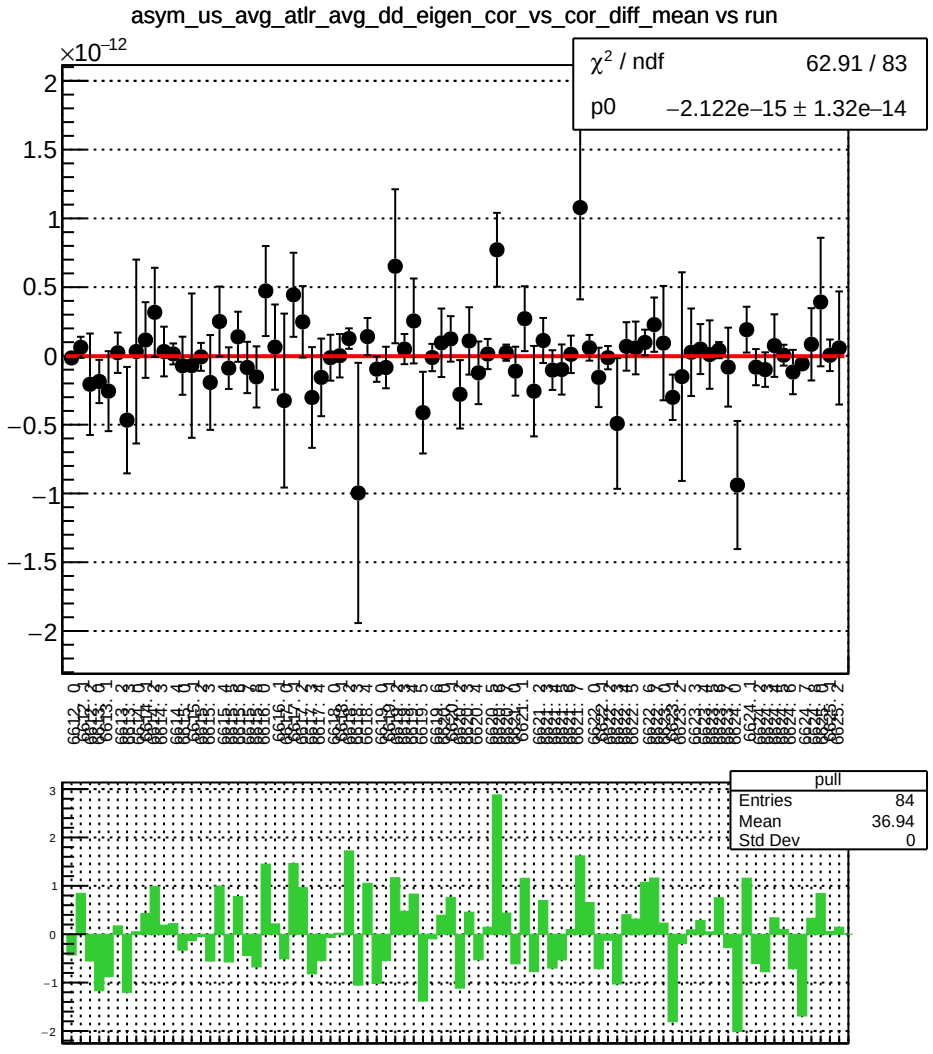

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.64 / 83
p0 3.597 ± 3.063
pull
Entries 84
Mean 434.4
Std Dev 0

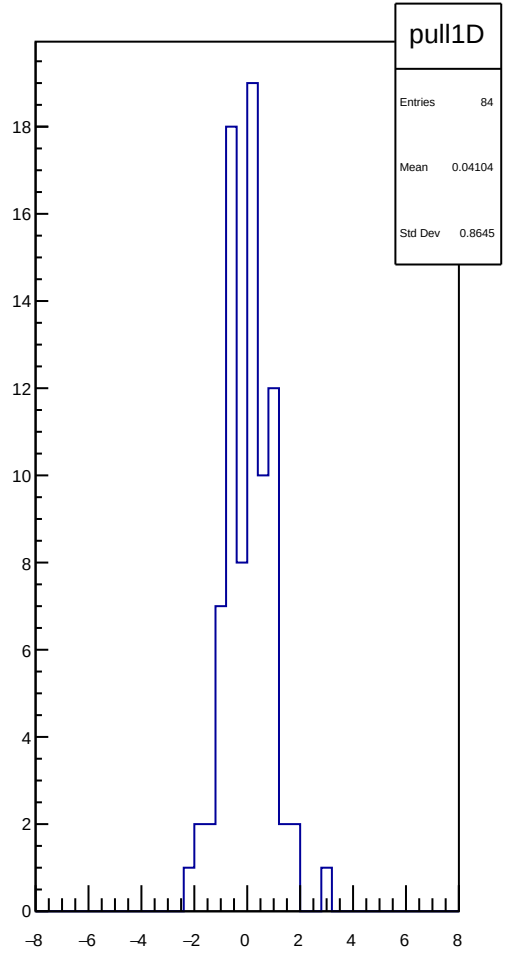

pull1D
Entries 84
Mean −0.001905
Std Dev 1.01

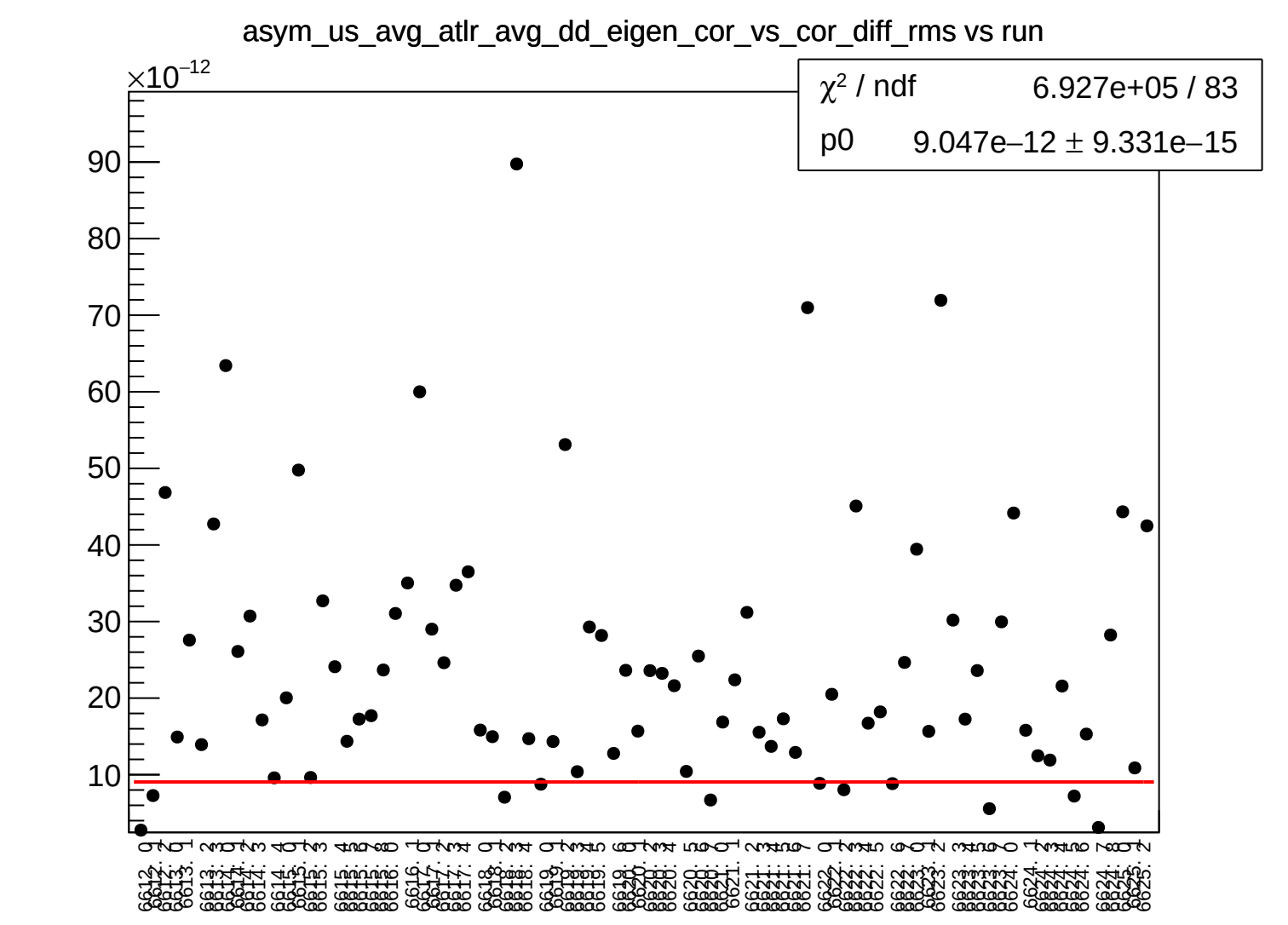

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 133.1 / 83
p0 2767 ± 2.166
2900
2850
2800
2750
2700

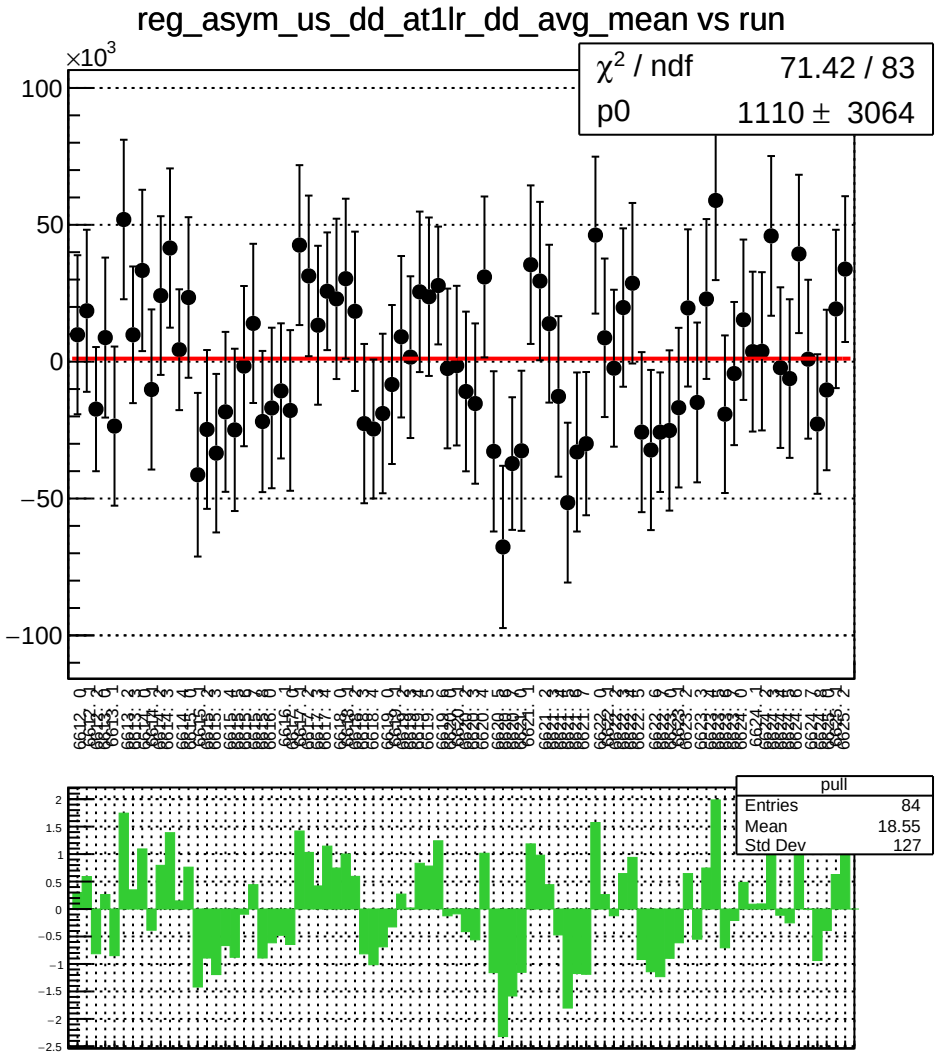

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.64 / 83
p0 3.597 ± 3.063
pull
Entries 84
Mean 434.4
Std Dev 0
pull1D
Entries 84
Mean −0.001905
Std Dev 1.01

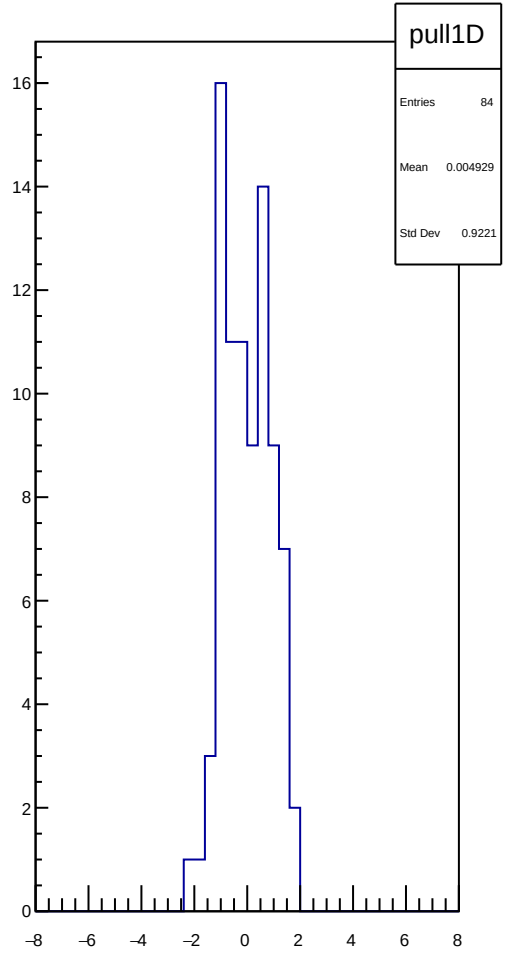

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 133.1 / 83
p0 2767 ± 2.166
2900
2850
2800
2750
2700

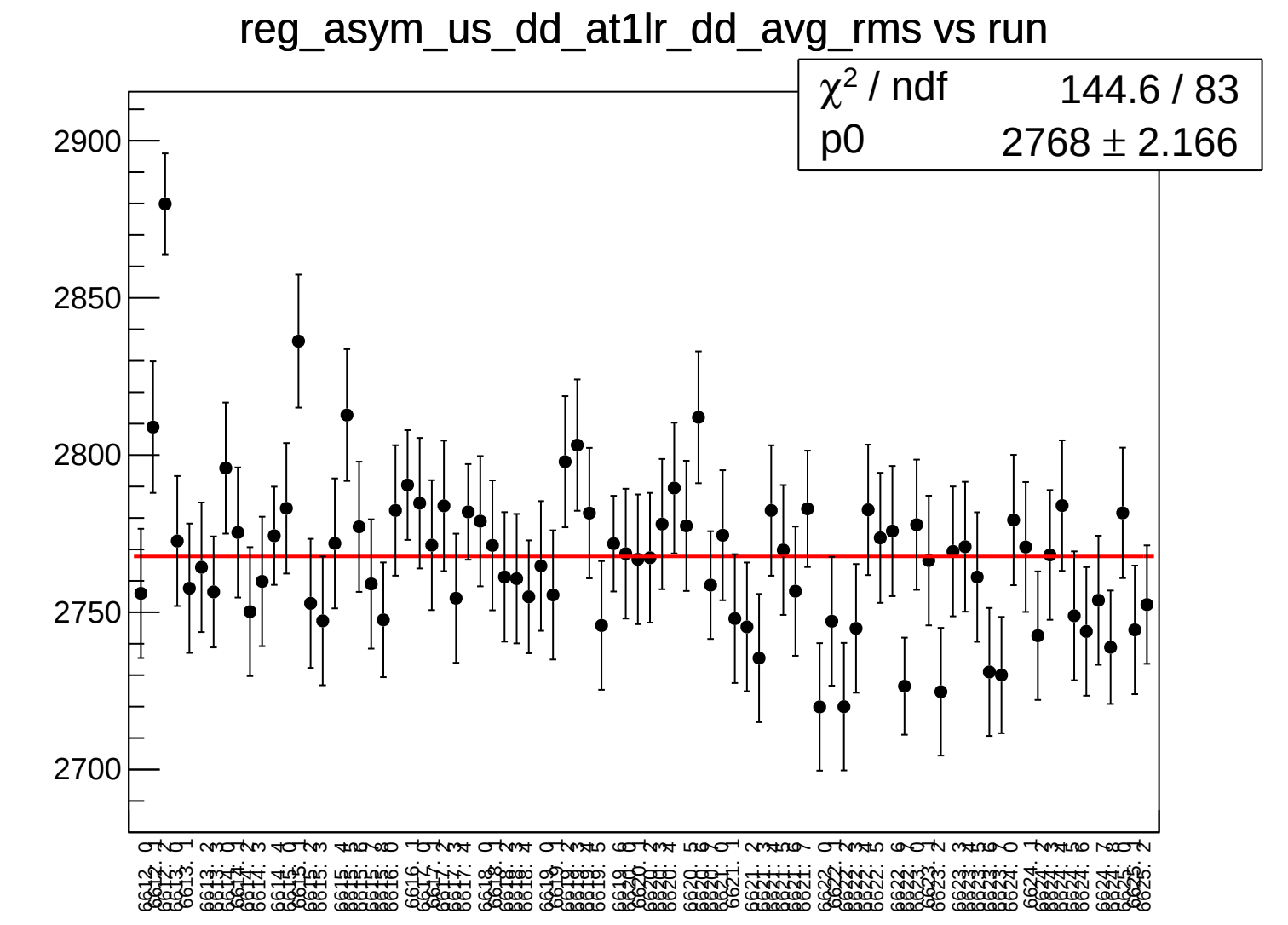

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 62.91 / 83
p0 −2.122e−15 ± 1.32e−14
pull
Entries 84
Mean 36.94
Std Dev 0

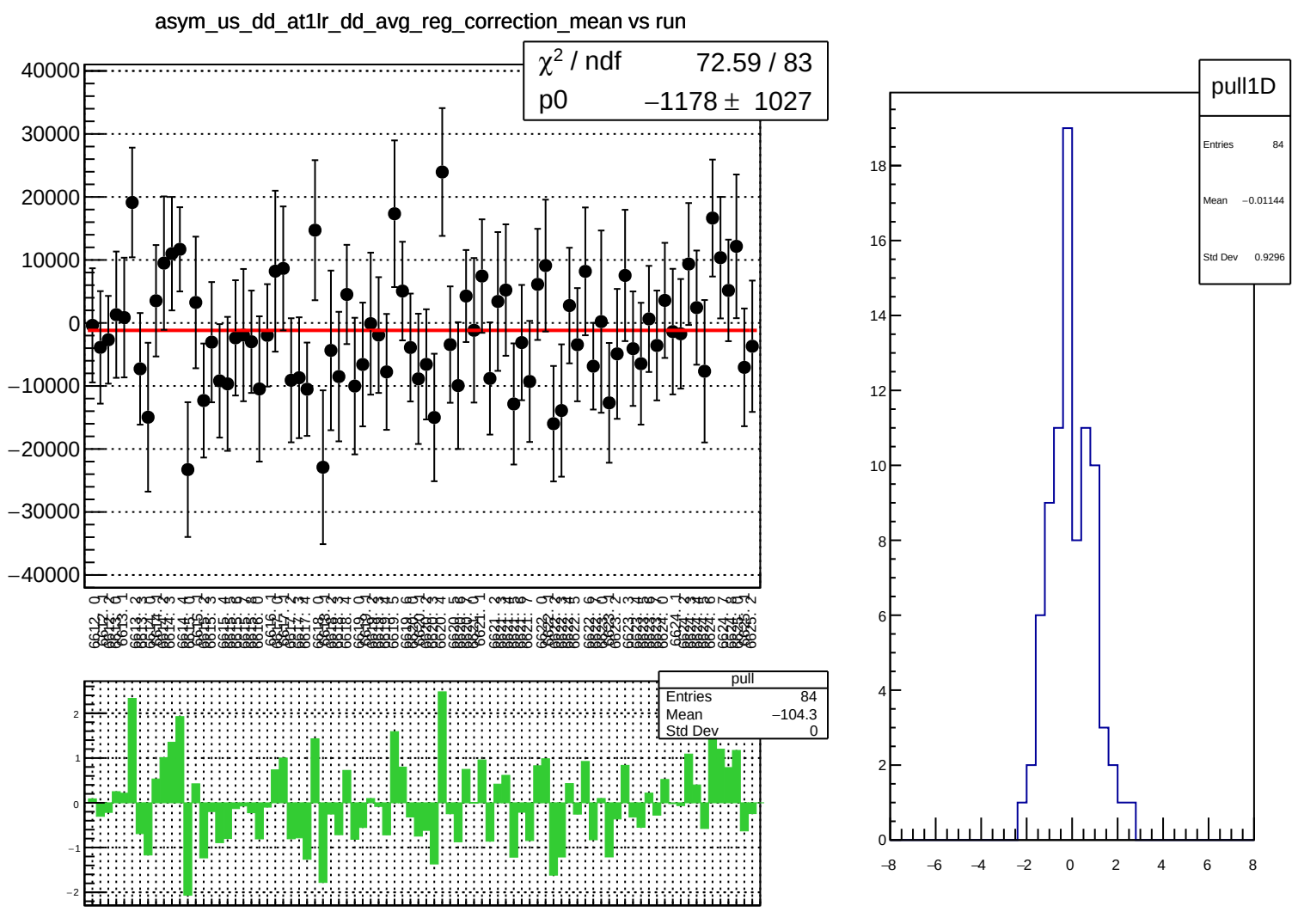

pull1D
Entries 84
Mean 0.04104
Std Dev 0.8645

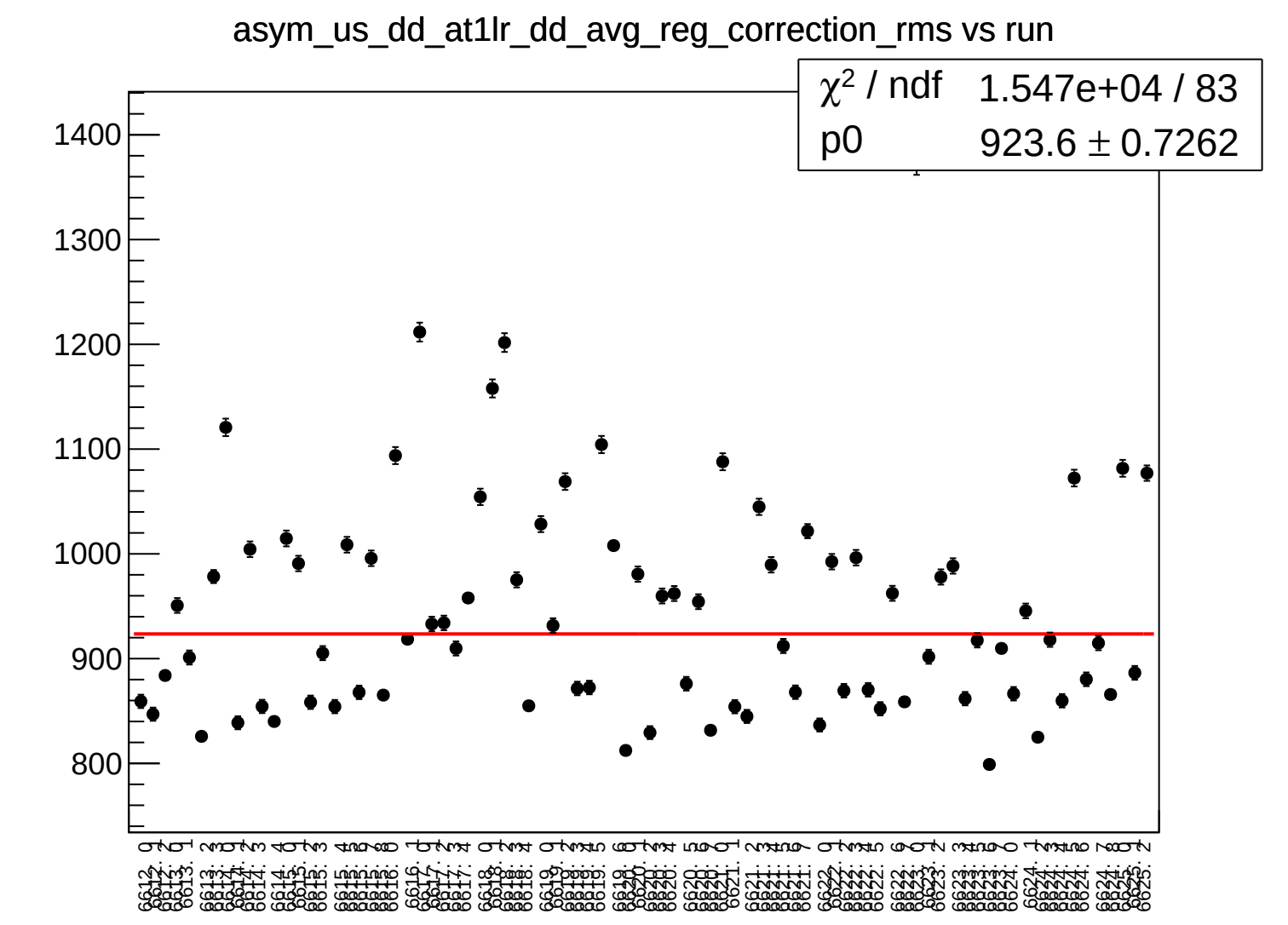

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.927e+05 / 83
p0 9.047e−12 ± 9.331e−15
90
80
70
60
50
40
30
20
10

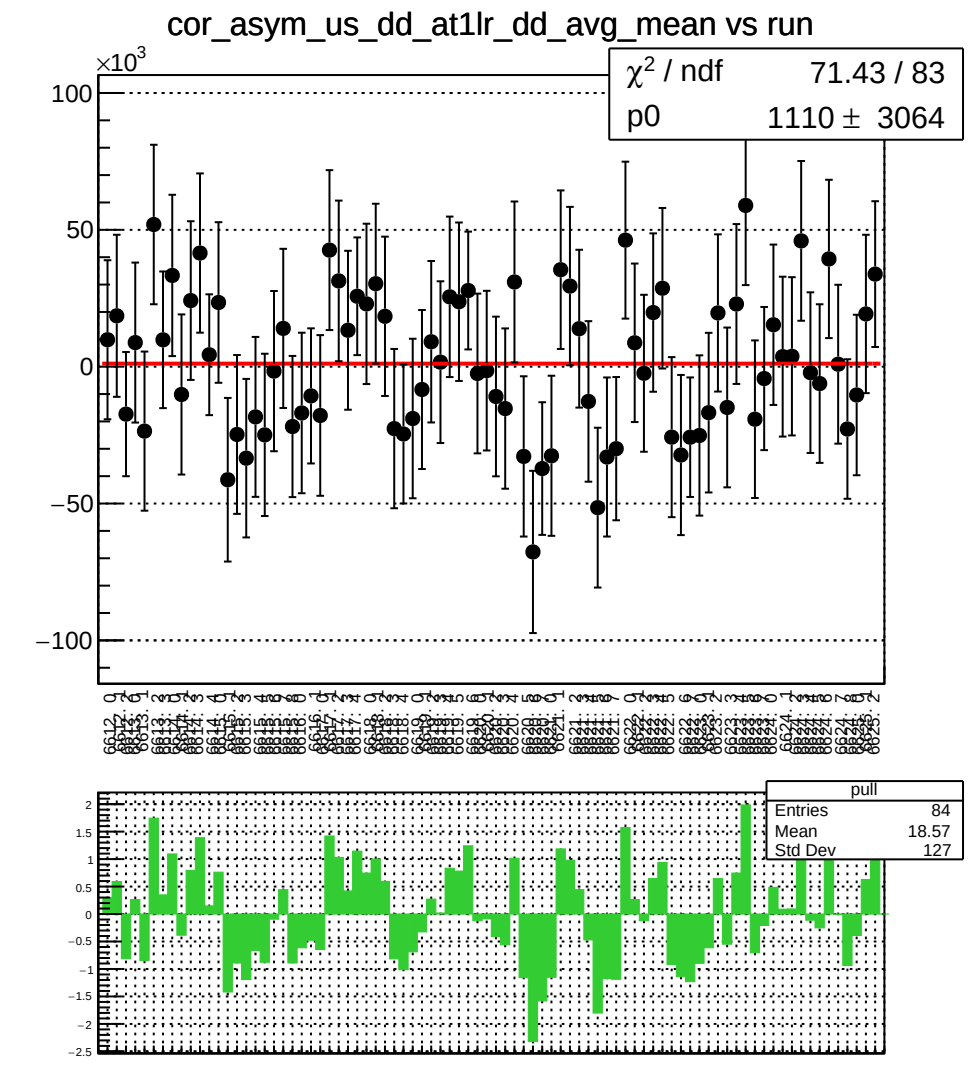

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 71.42 / 83
p0 1110 ± 3064
100
50
0
−50
−100
pull
Entries 84
Mean 18.55
Std Dev 127
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

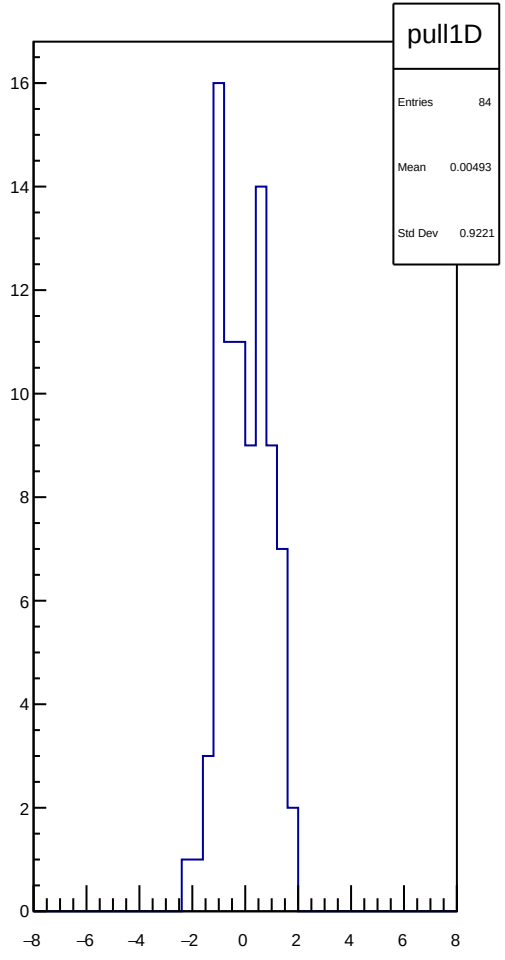

pull1D
Entries 84
Mean 0.004929
Std Dev 0.9221
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

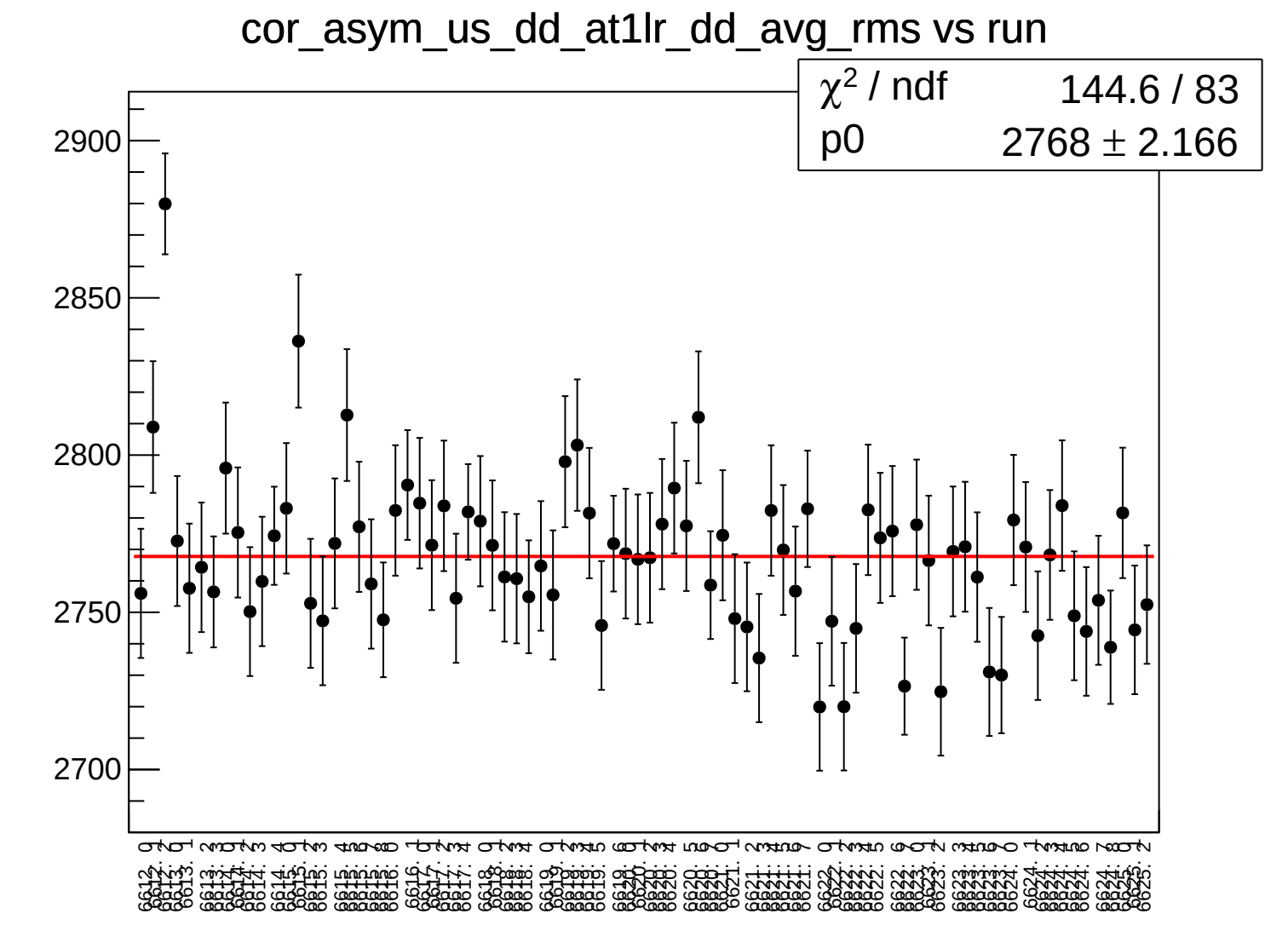

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 144.6 / 83
p0 2768 ± 2.166
2900
2850
2800
2750
2700

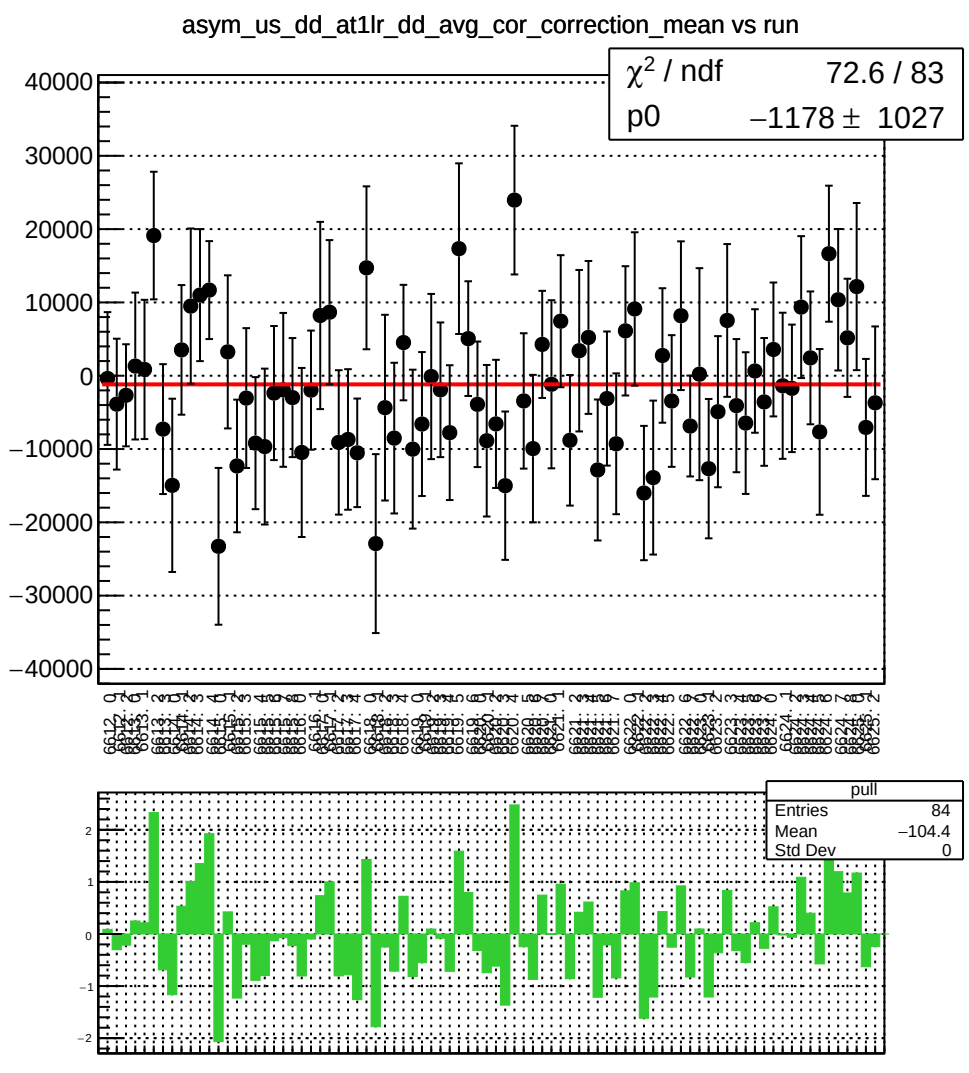

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 72.59 / 83
p0 −1178 ± 1027
pull
Entries 84
Mean −104.3
Std Dev 0
pull1D
Entries 84
Mean −0.01144
Std Dev 0.9296

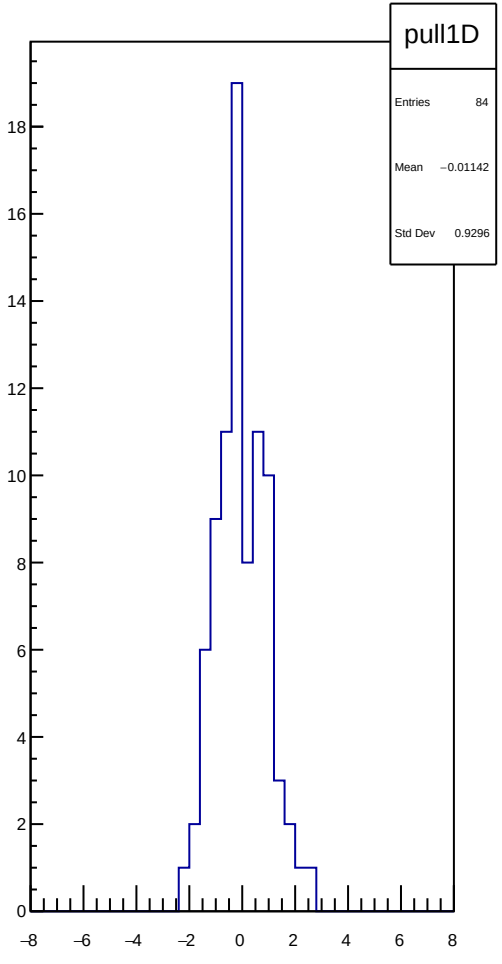

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.547e+04 / 83
p0 923.6 ± 0.7262
1400
1300
1200
1100
1000
900
800

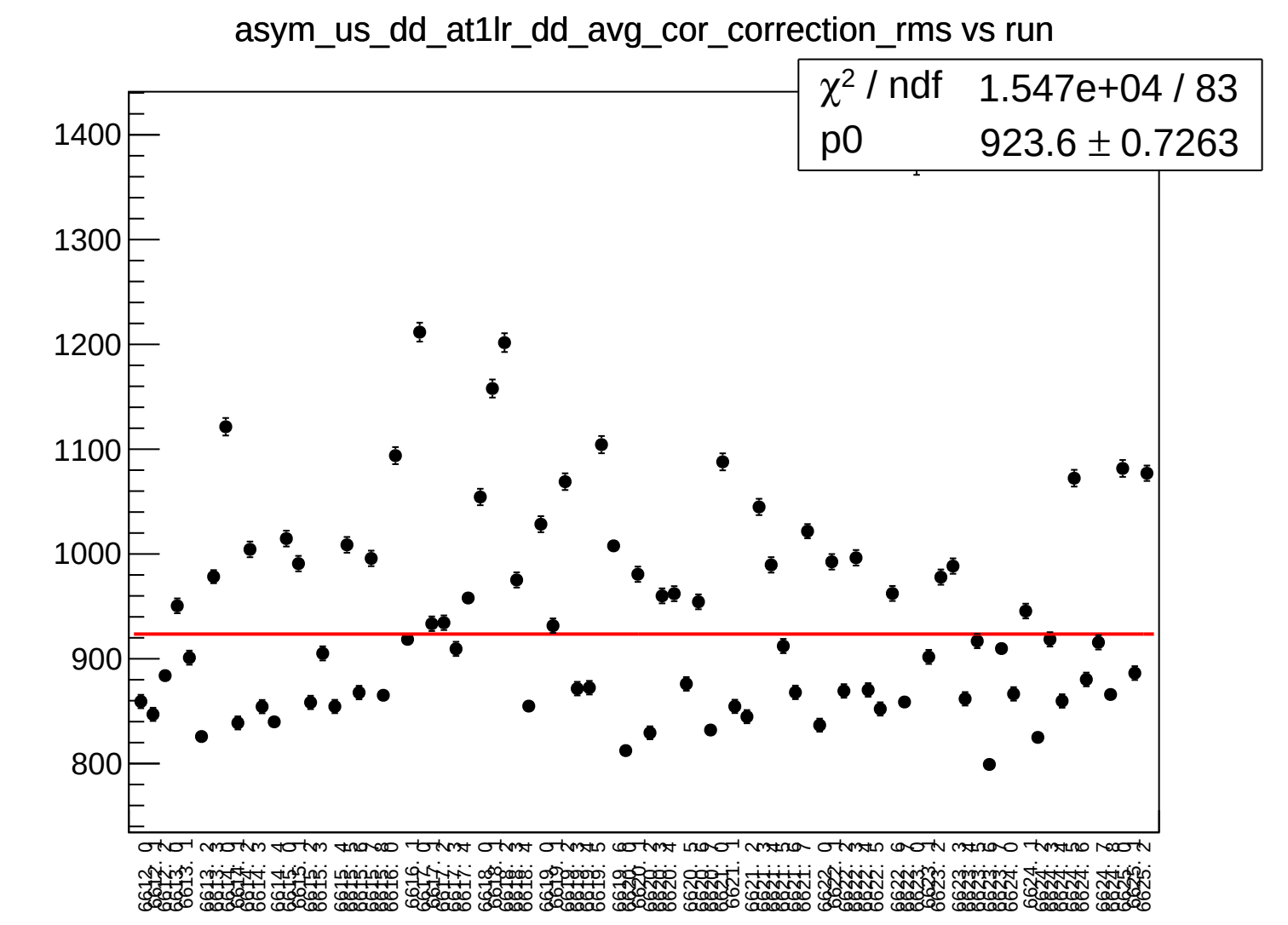

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 71.43 / 83
p0 1110 ± 3064
pull
Entries 84
Mean 18.57
Std Dev 127

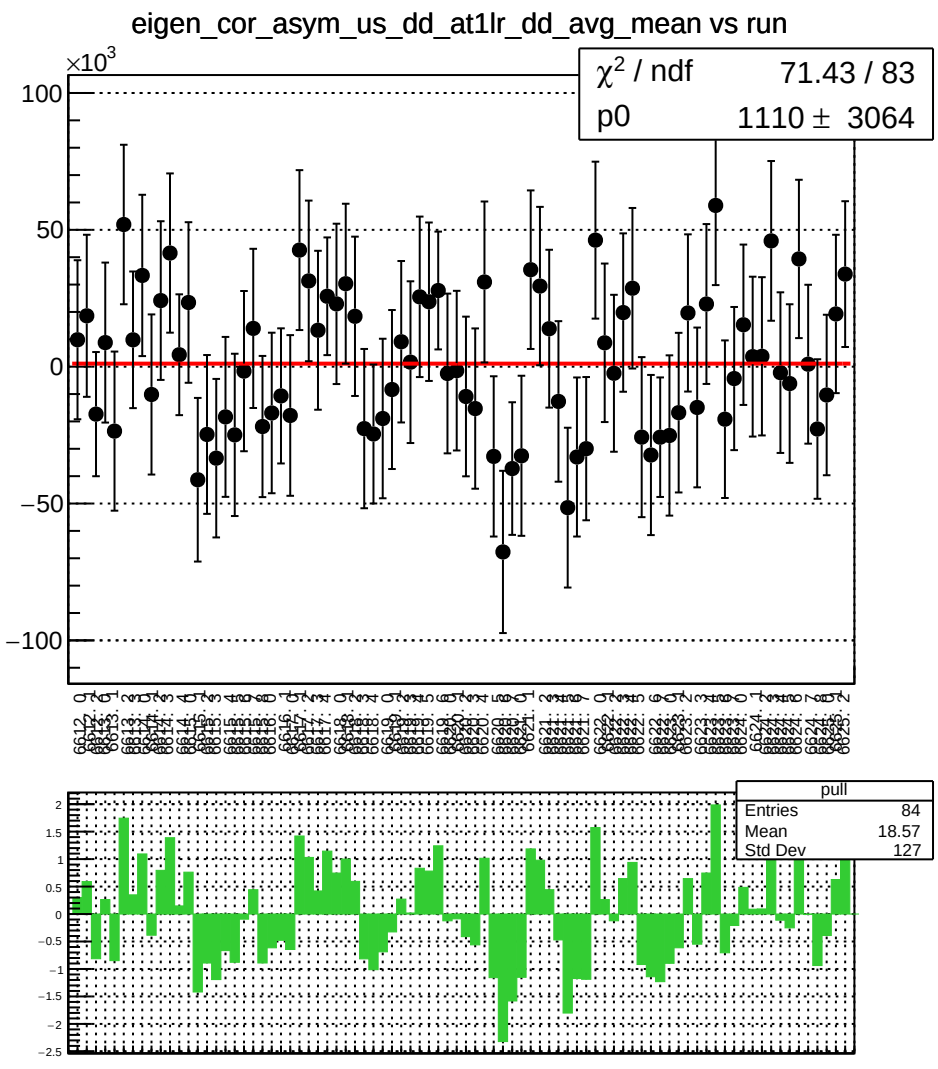

pull1D
Entries 84
Mean 0.00493
Std Dev 0.9221

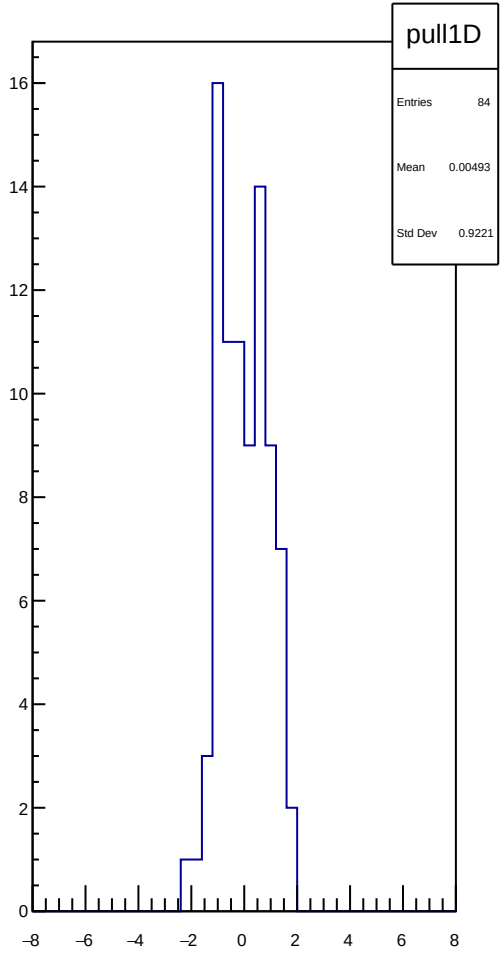

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 144.6 / 83
p0 2768 ± 2.166
2900
2850
2800
2750
2700

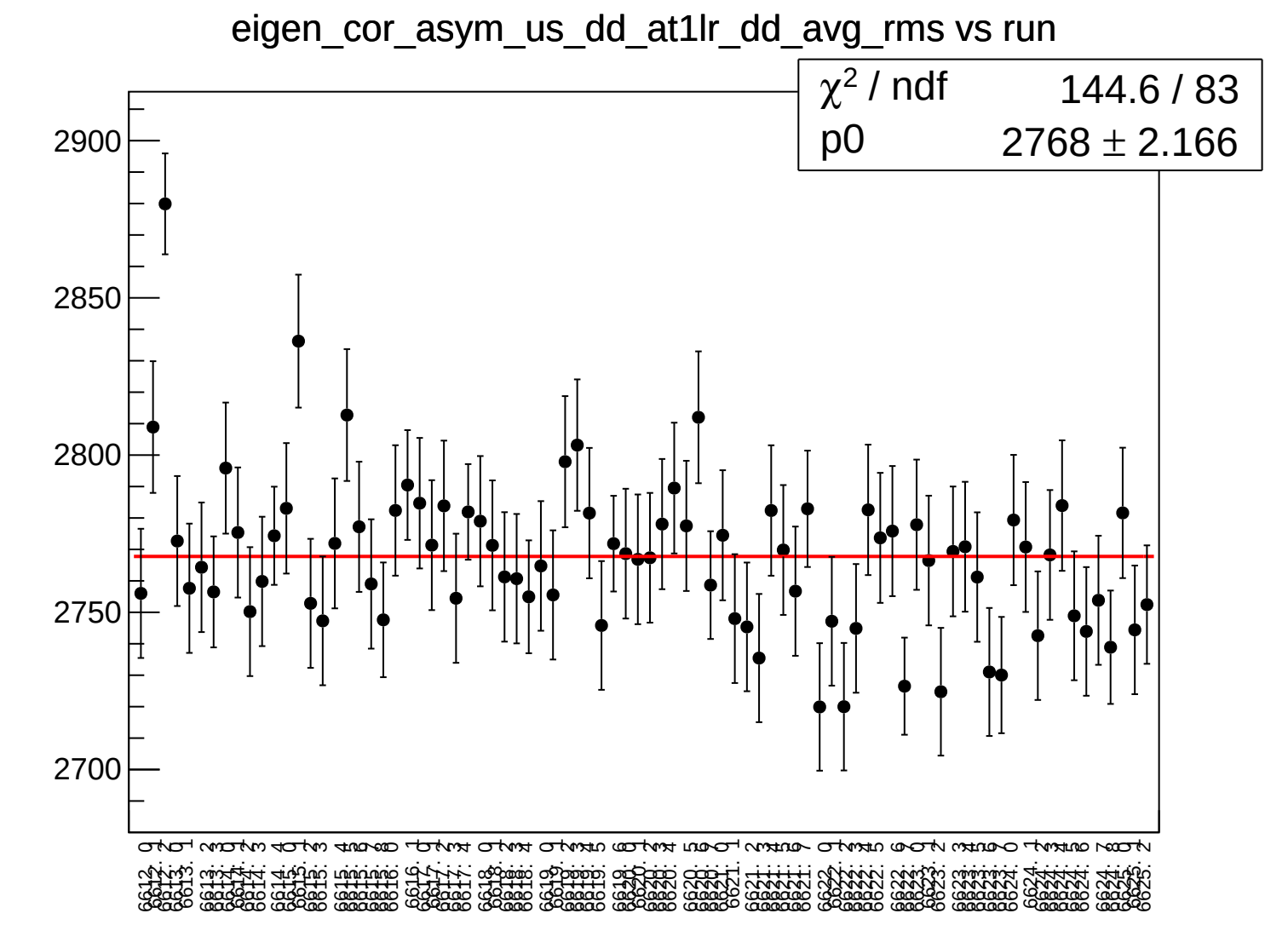

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 72.6 / 83
p0 −1178 ± 1027
pull
Entries 84
Mean −104.4
Std Dev 0

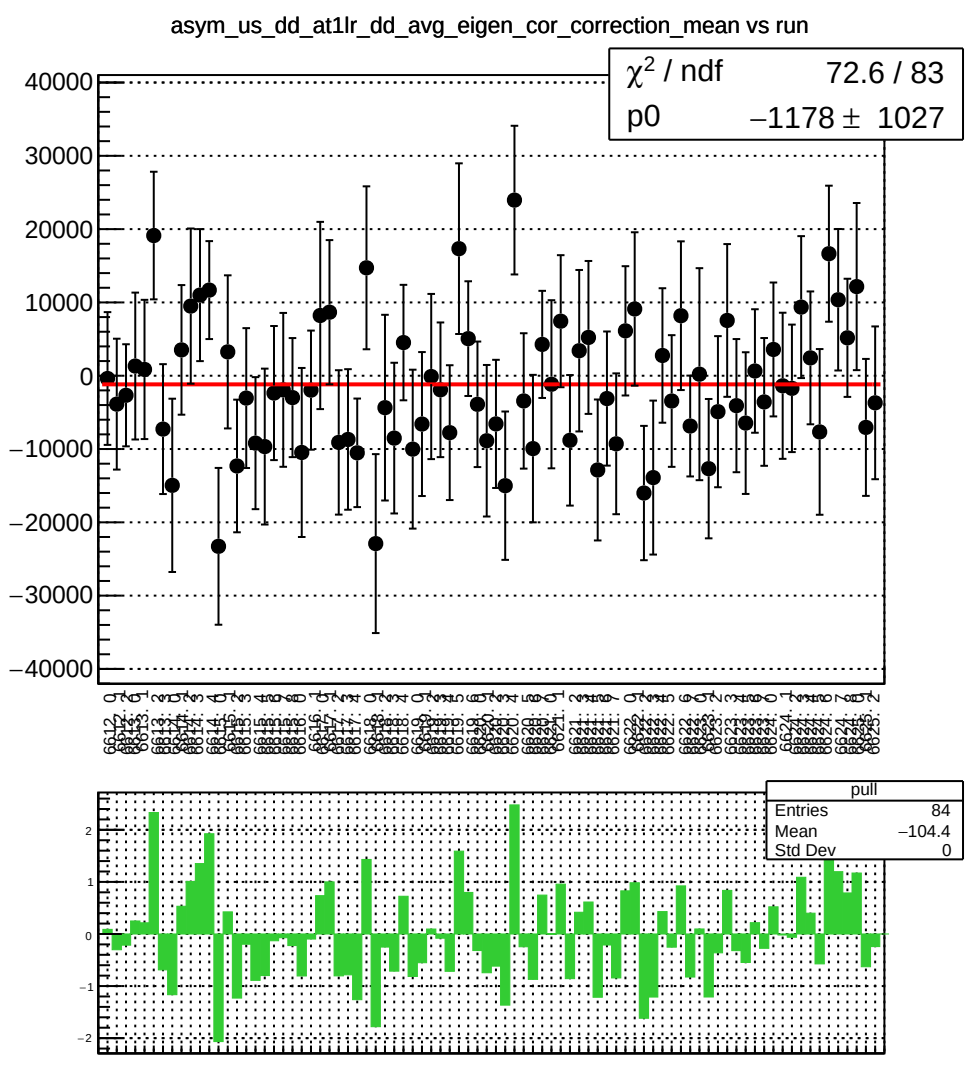

pull1D
Entries 84
Mean −0.01142
Std Dev 0.9296

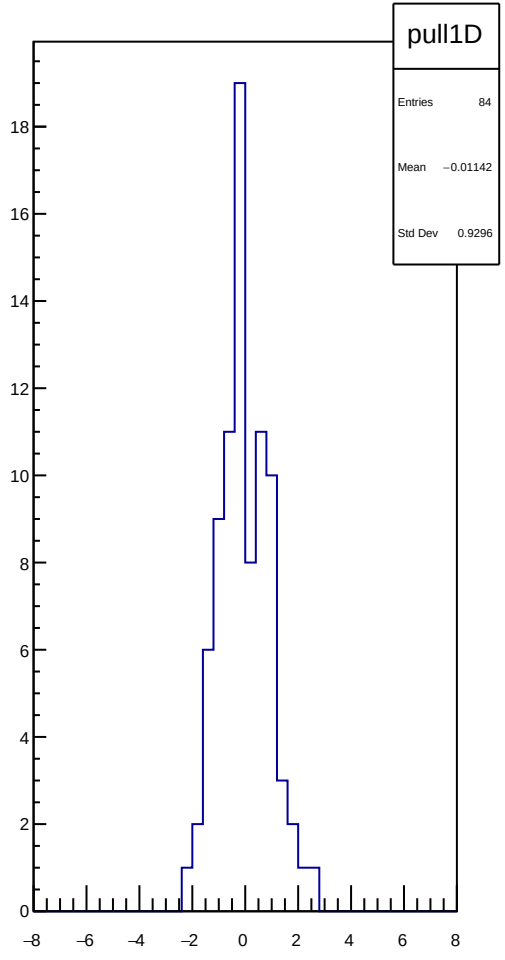

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.547e+04 / 83
p0 923.6 ± 0.7263
1400
1300
1200
1100
1000
900
800

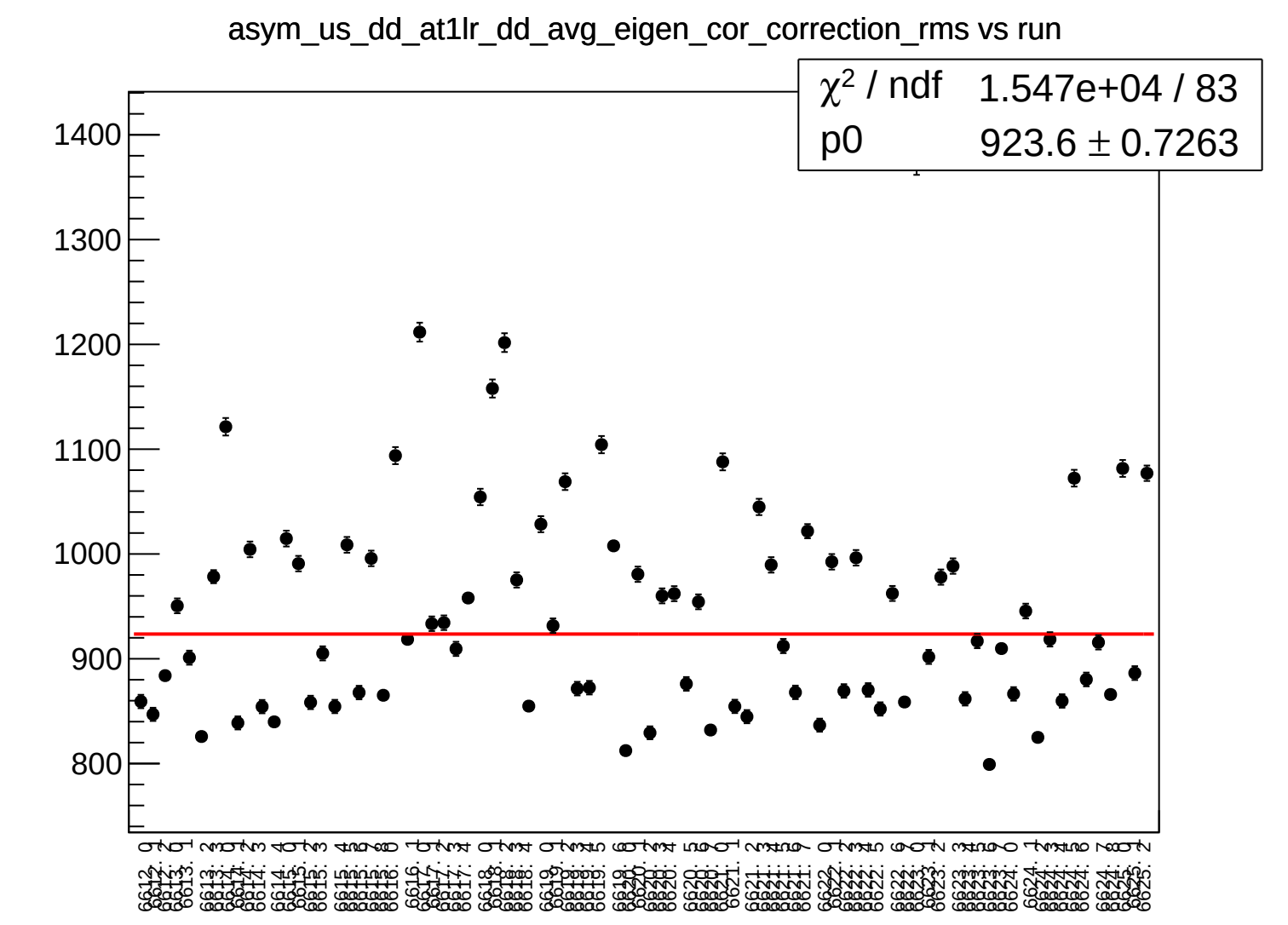

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 71.43 / 83
p0 1110 ± 3064
pull
Entries 84
Mean 18.57
Std Dev 127

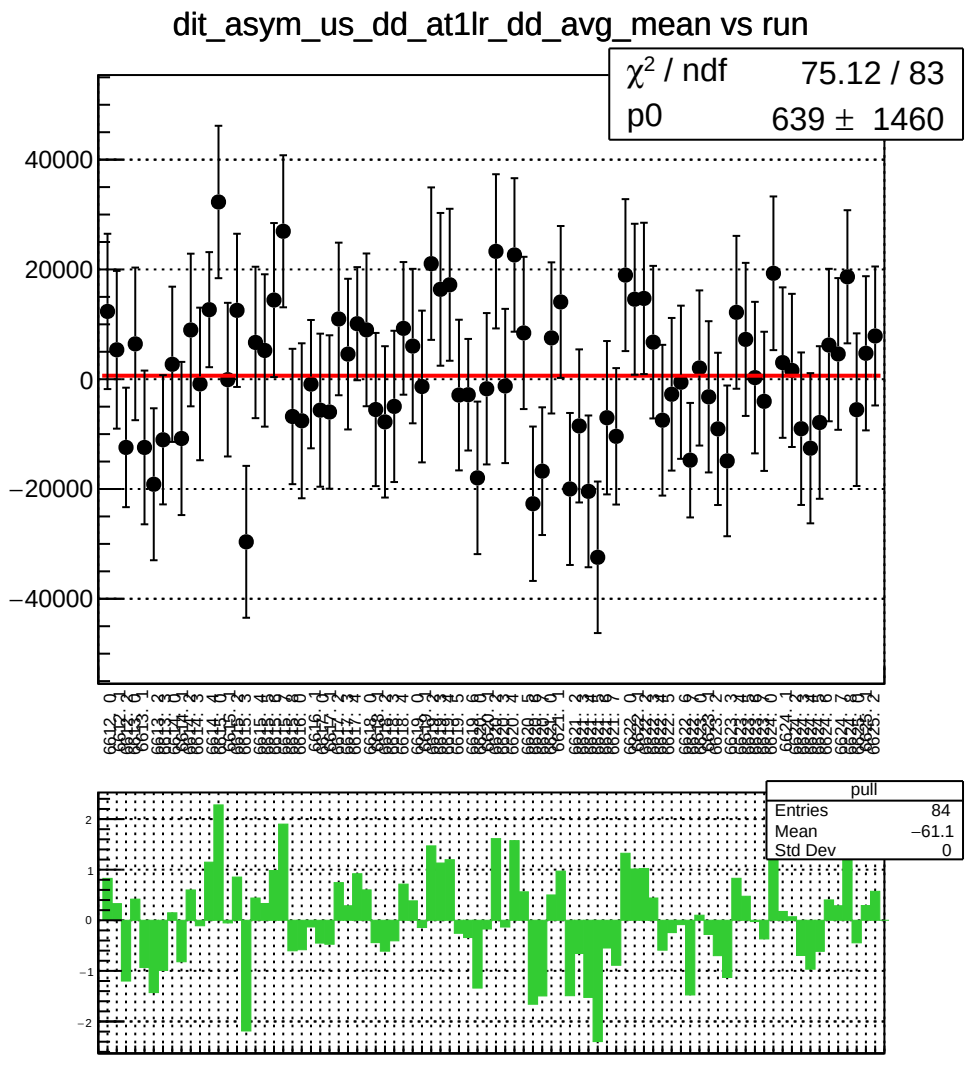

pull1D
Entries 84
Mean 0.00493
Std Dev 0.9221

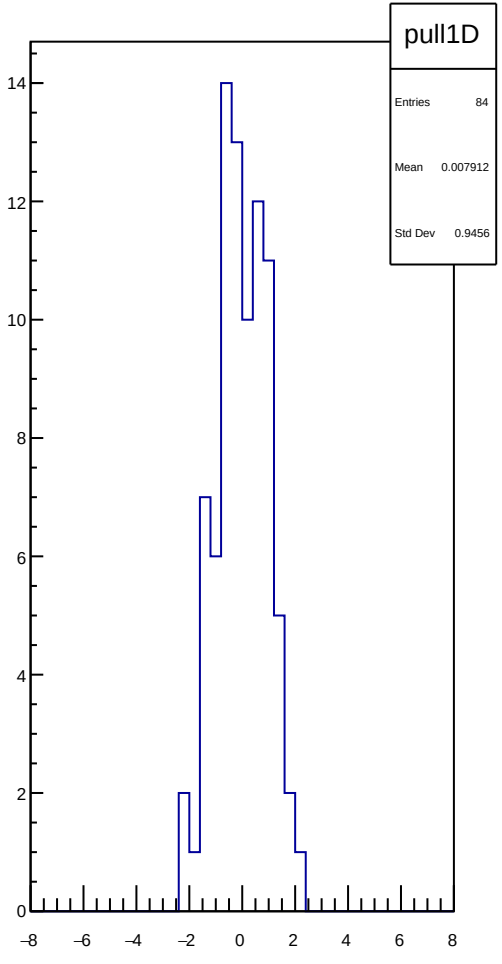

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 144.6 / 83
p0 2768 ± 2.166
2900
2850
2800
2750
2700

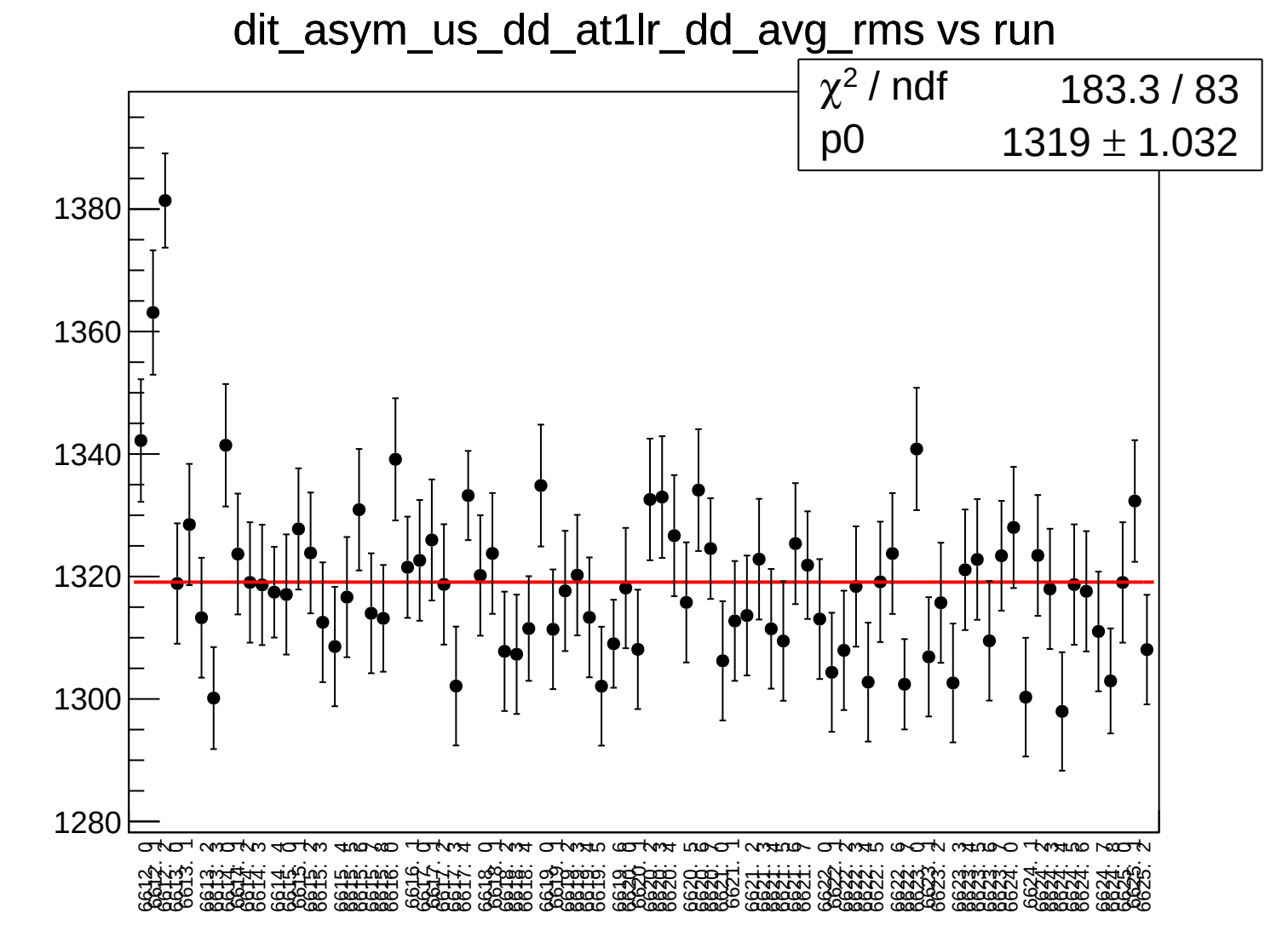

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.6 / 83
p0 −1178 ± 1027
pull
Entries 84
Mean −104.4
Std Dev 0

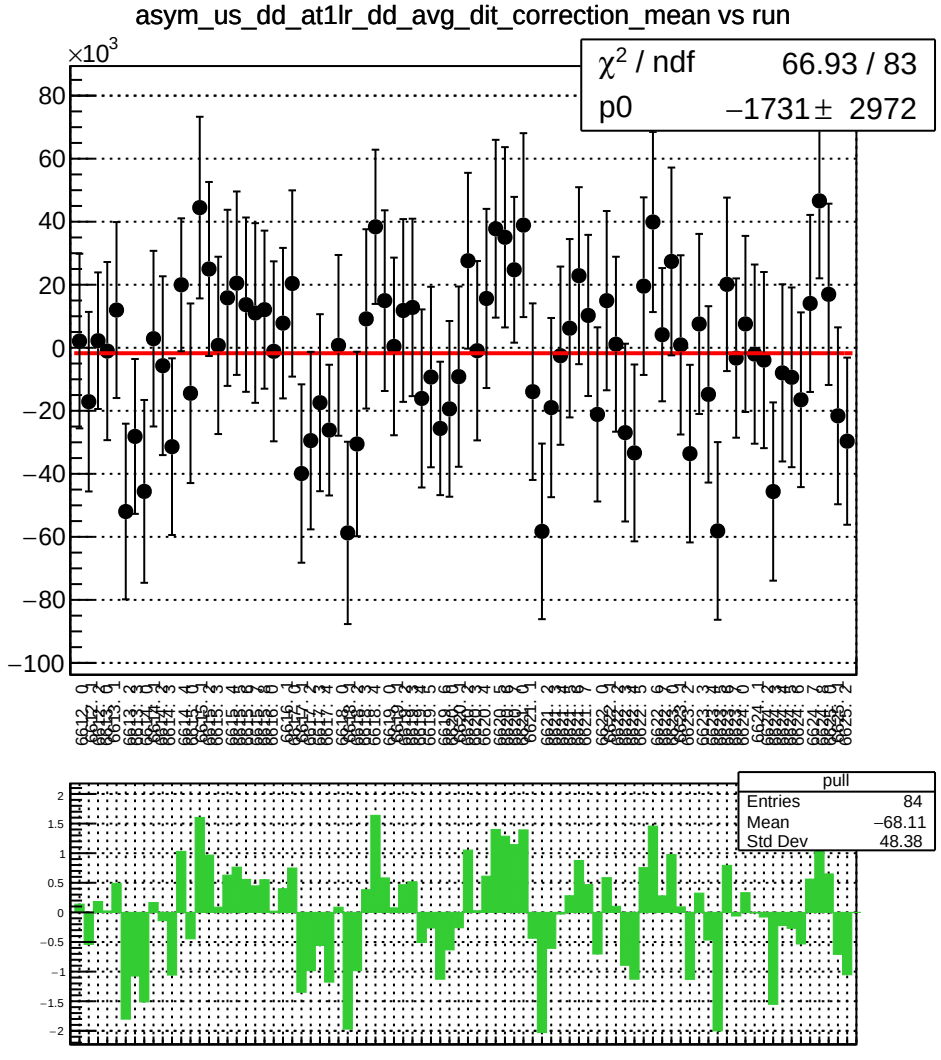

pull1D
Entries 84
Mean −0.01142
Std Dev 0.9296

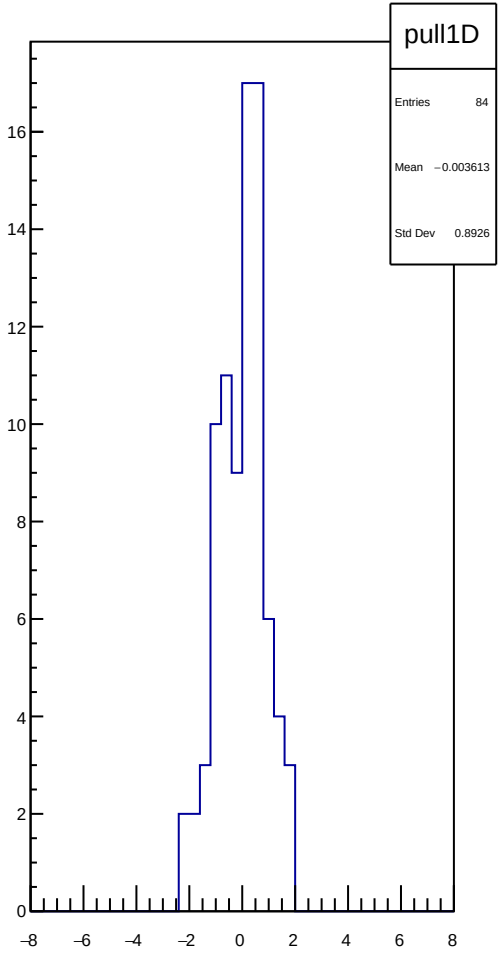

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.547e+04 / 83
p0 923.6 ± 0.7263
1400
1300
1200
1100
1000
900
800

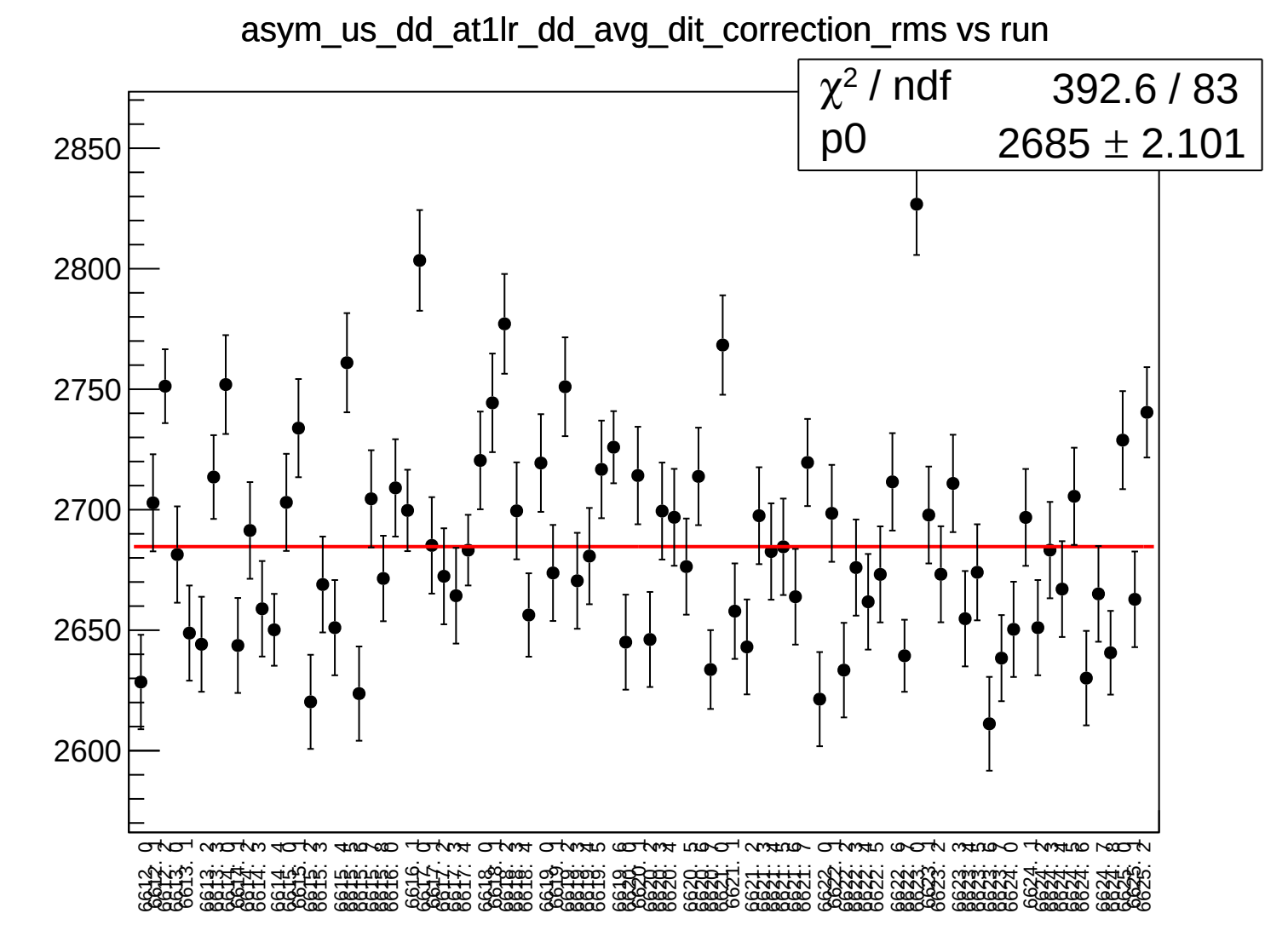

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.12 / 83
p0 639 ± 1460
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −61.1
Std Dev 0
2
1
0
−1
−2

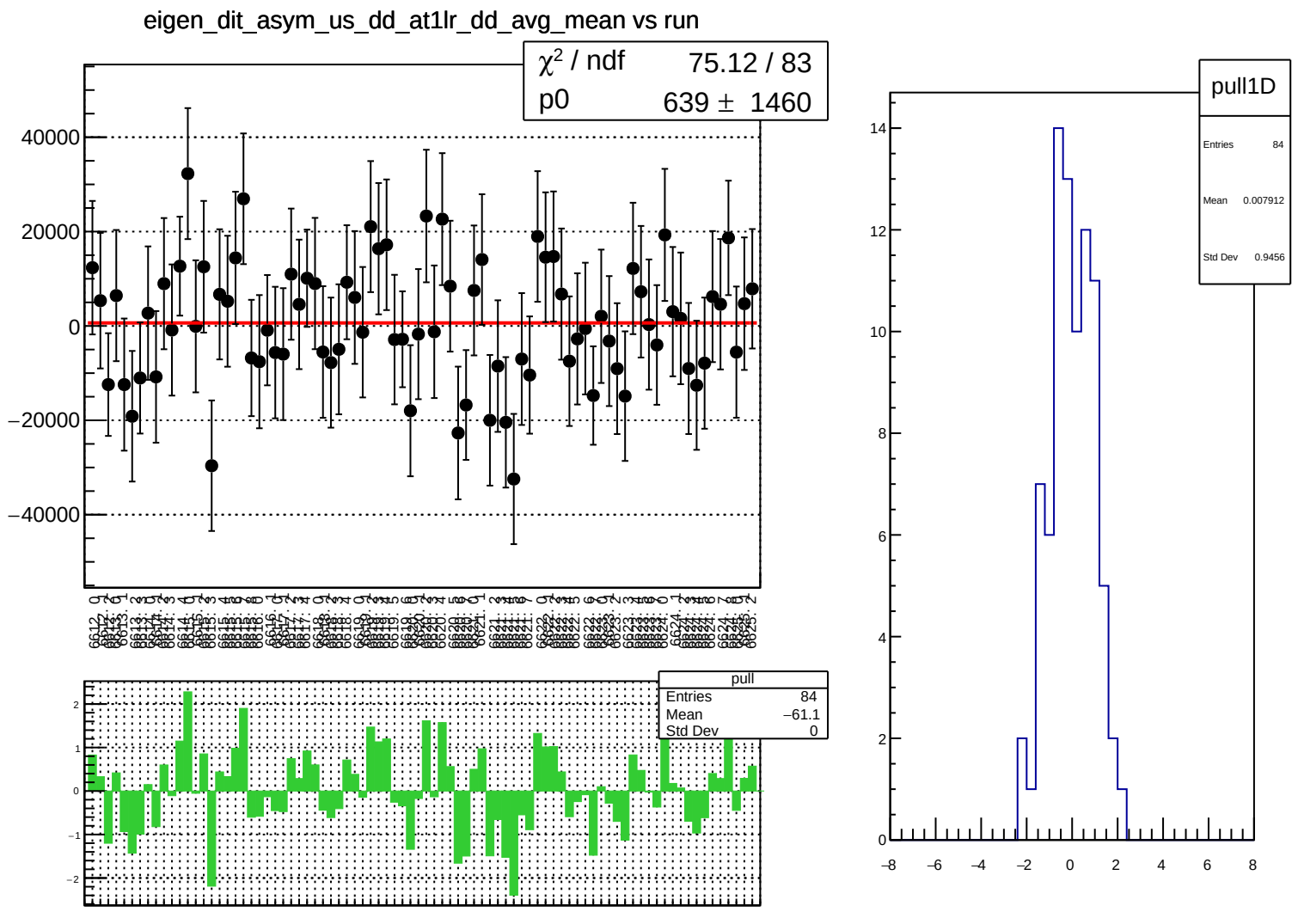

pull1D
Entries 84
Mean 0.007912
Std Dev 0.9456
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

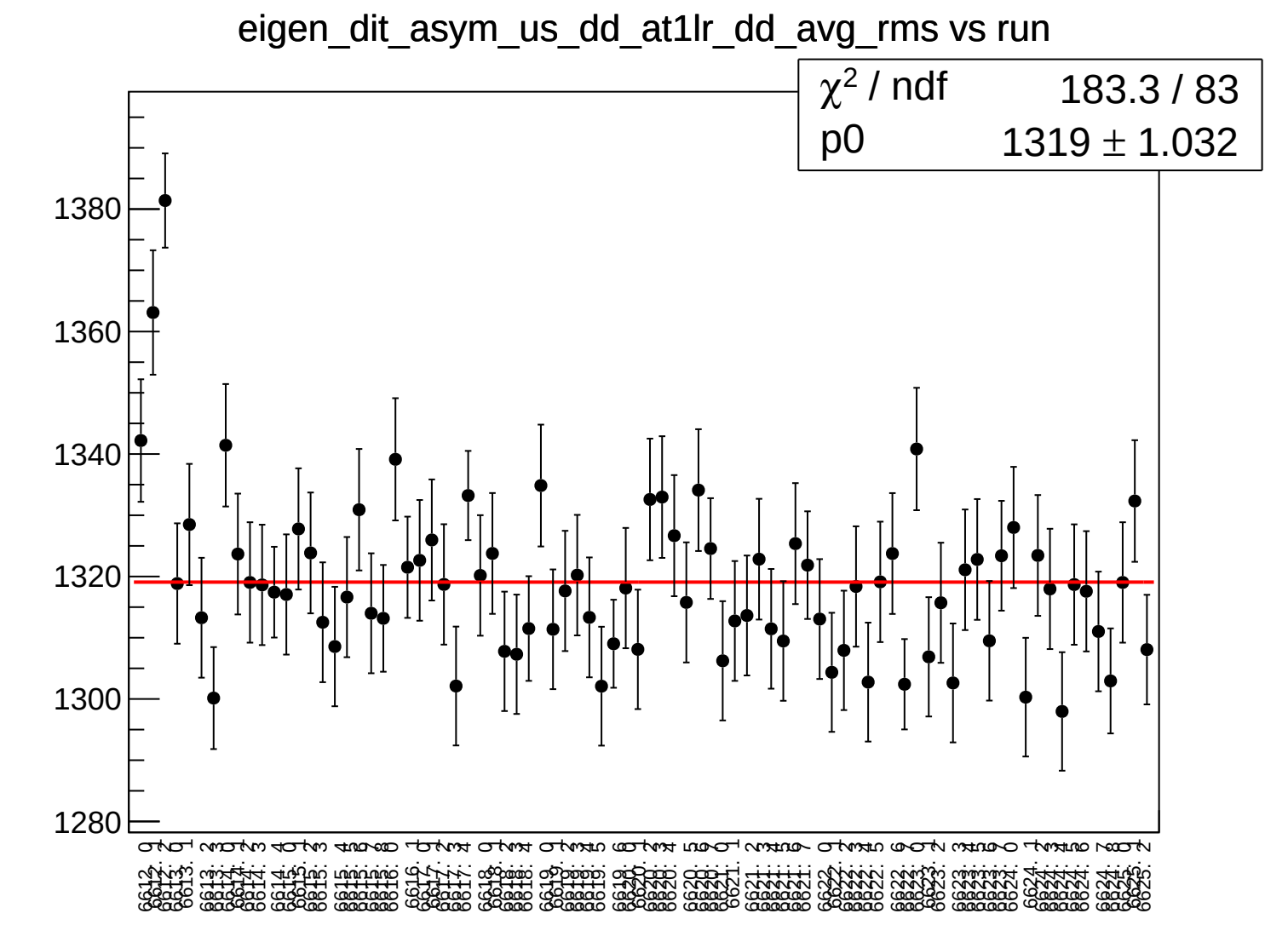

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 183.3 / 83
p0 1319 ± 1.032
1380
1360
1340
1320
1300
1280

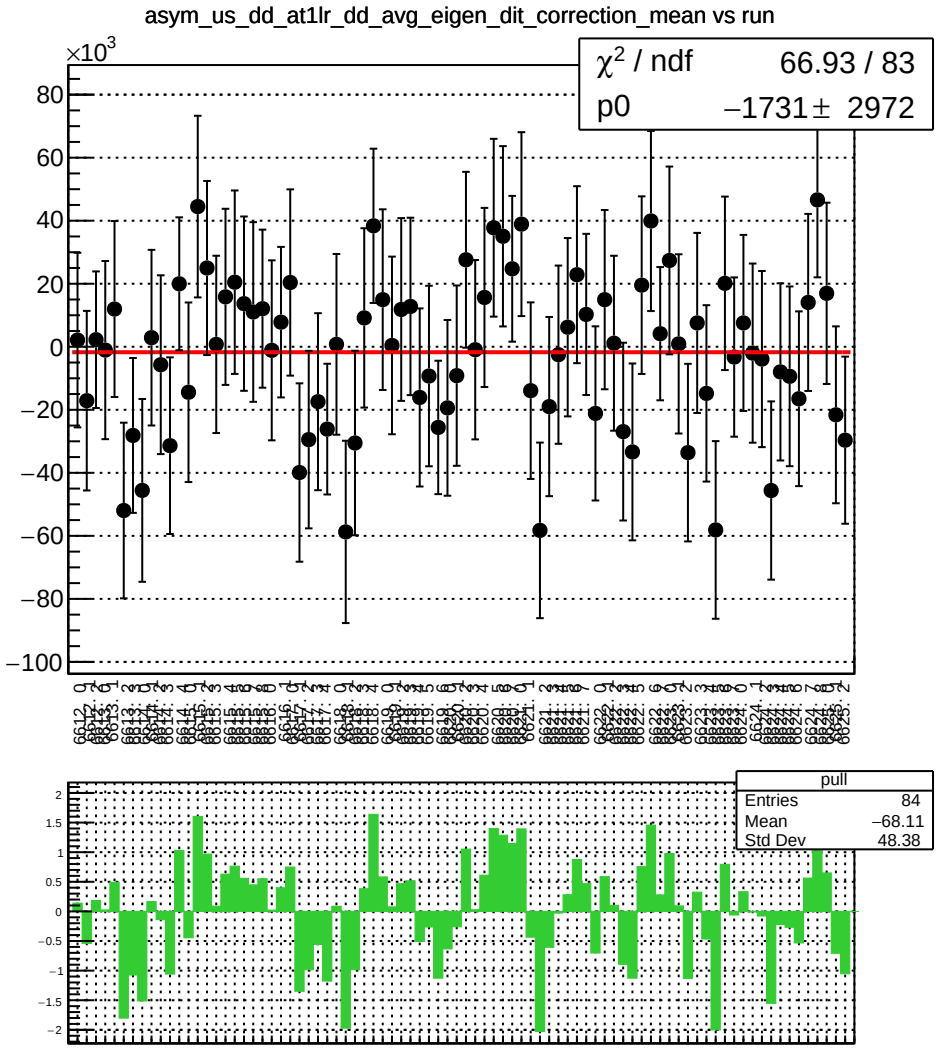

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 66.93 / 83
p0 −1731 ± 2972
pull
Entries 84
Mean −68.11
Std Dev 48.38

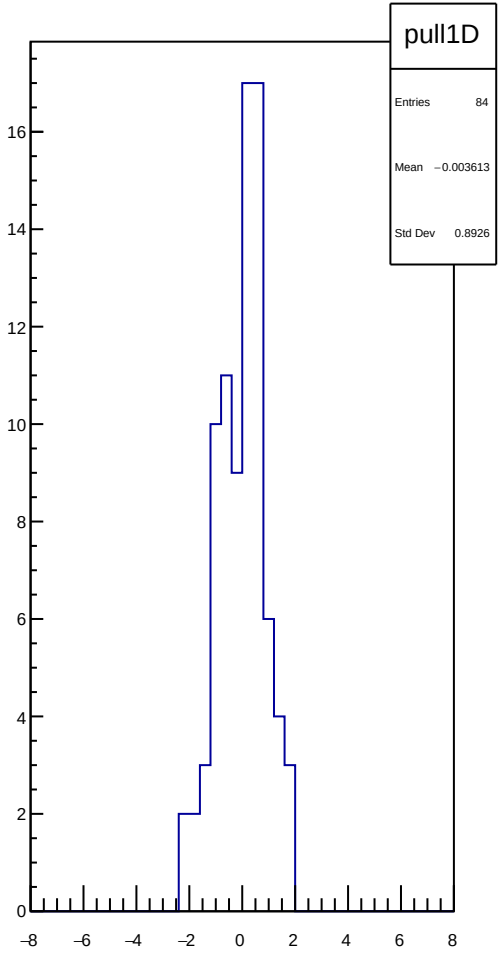

pull1D
Entries 84
Mean −0.003613
Std Dev 0.8926

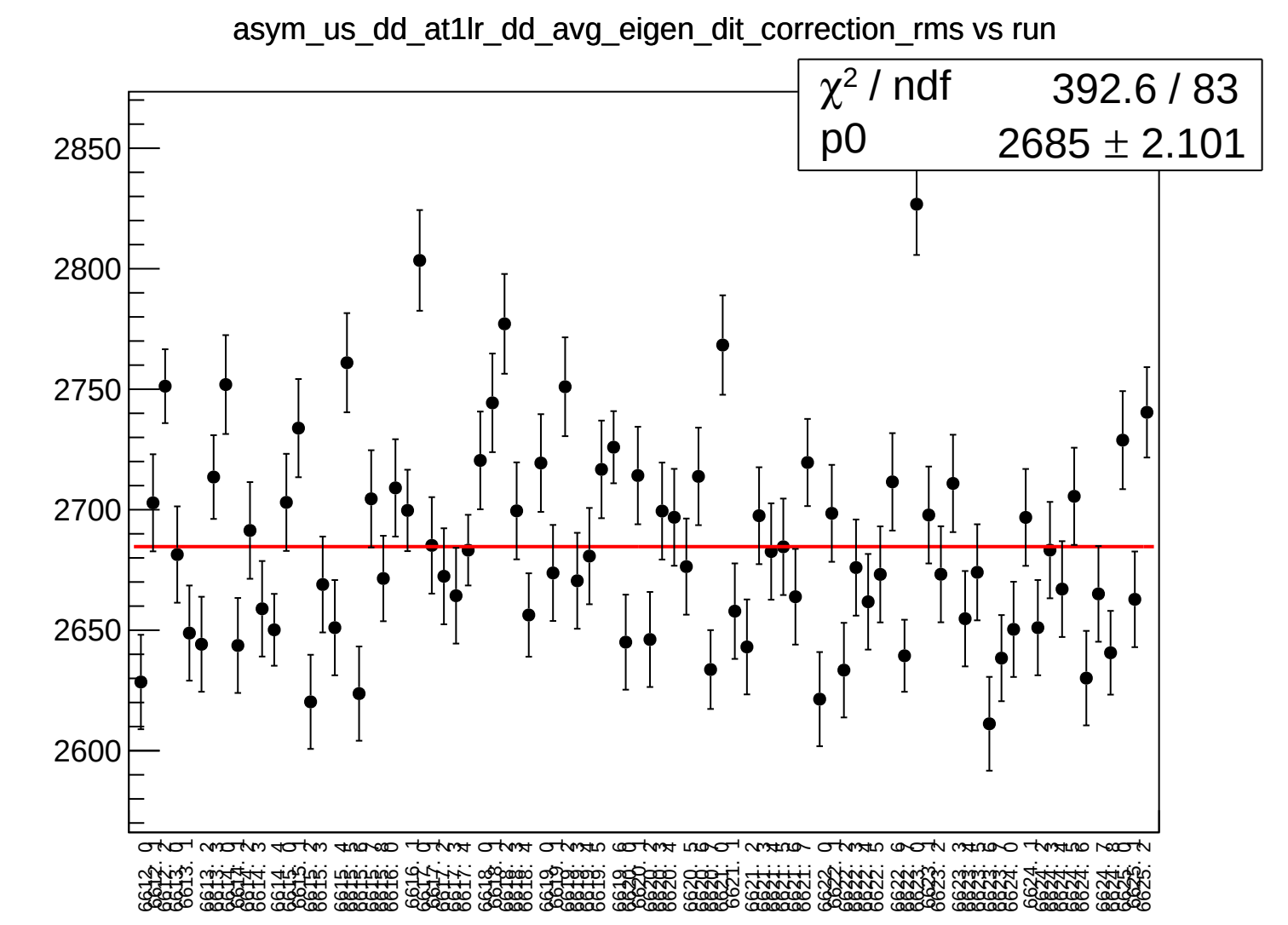

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 392.6 / 83
p0 2685 ± 2.101
2850
2800
2750
2700
2650
2600

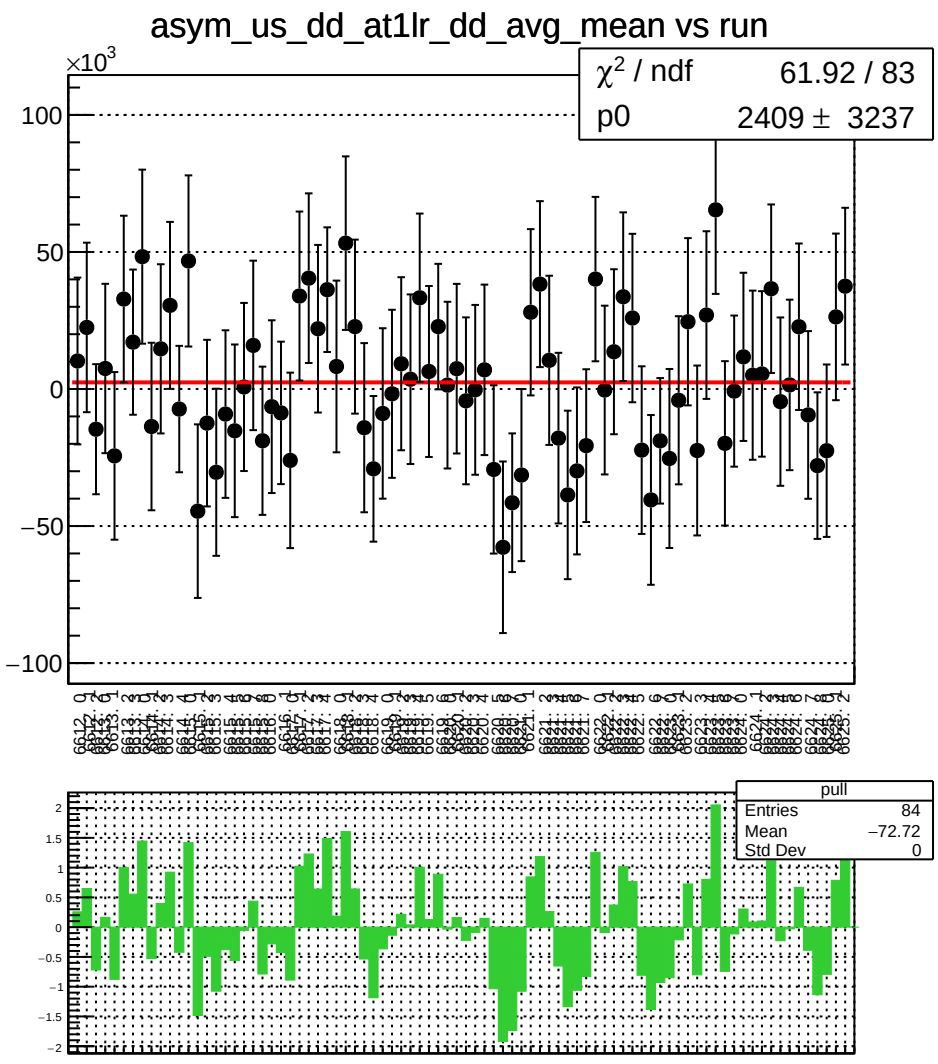

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.12 / 83
p0 639 ± 1460
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −61.1
Std Dev 0
pull1D
Entries 84
Mean 0.007912
Std Dev 0.9456

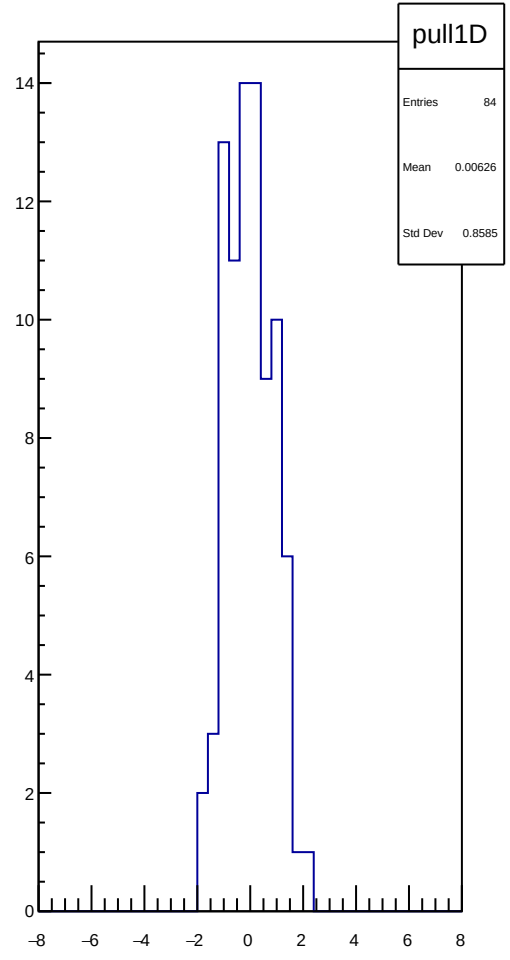

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 183.3 / 83
p0 1319 ± 1.032
1380
1360
1340
1320
1300
1280

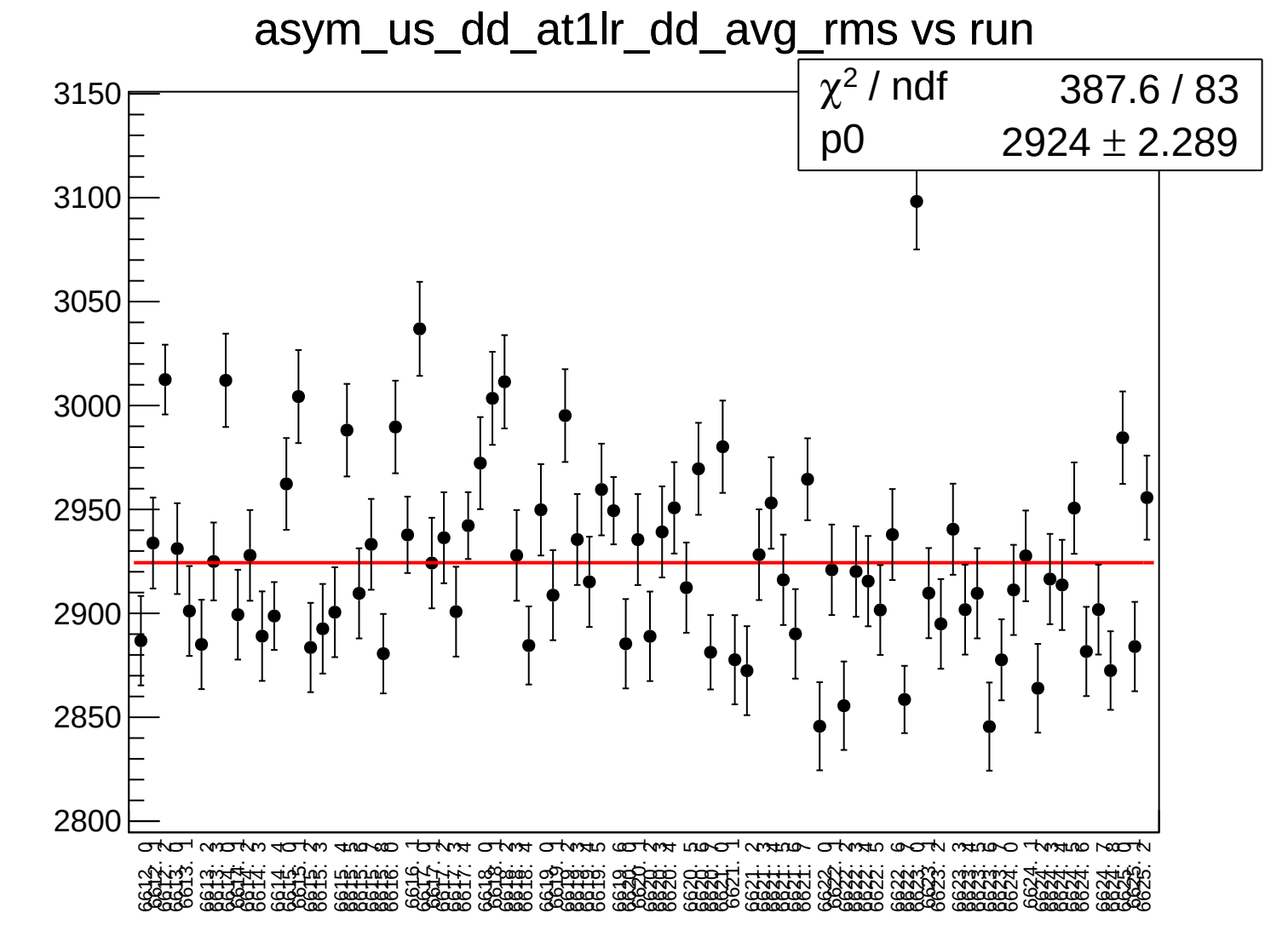

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.93 / 83
p0 −1731 ± 2972
pull
Entries 84
Mean −68.11
Std Dev 48.38

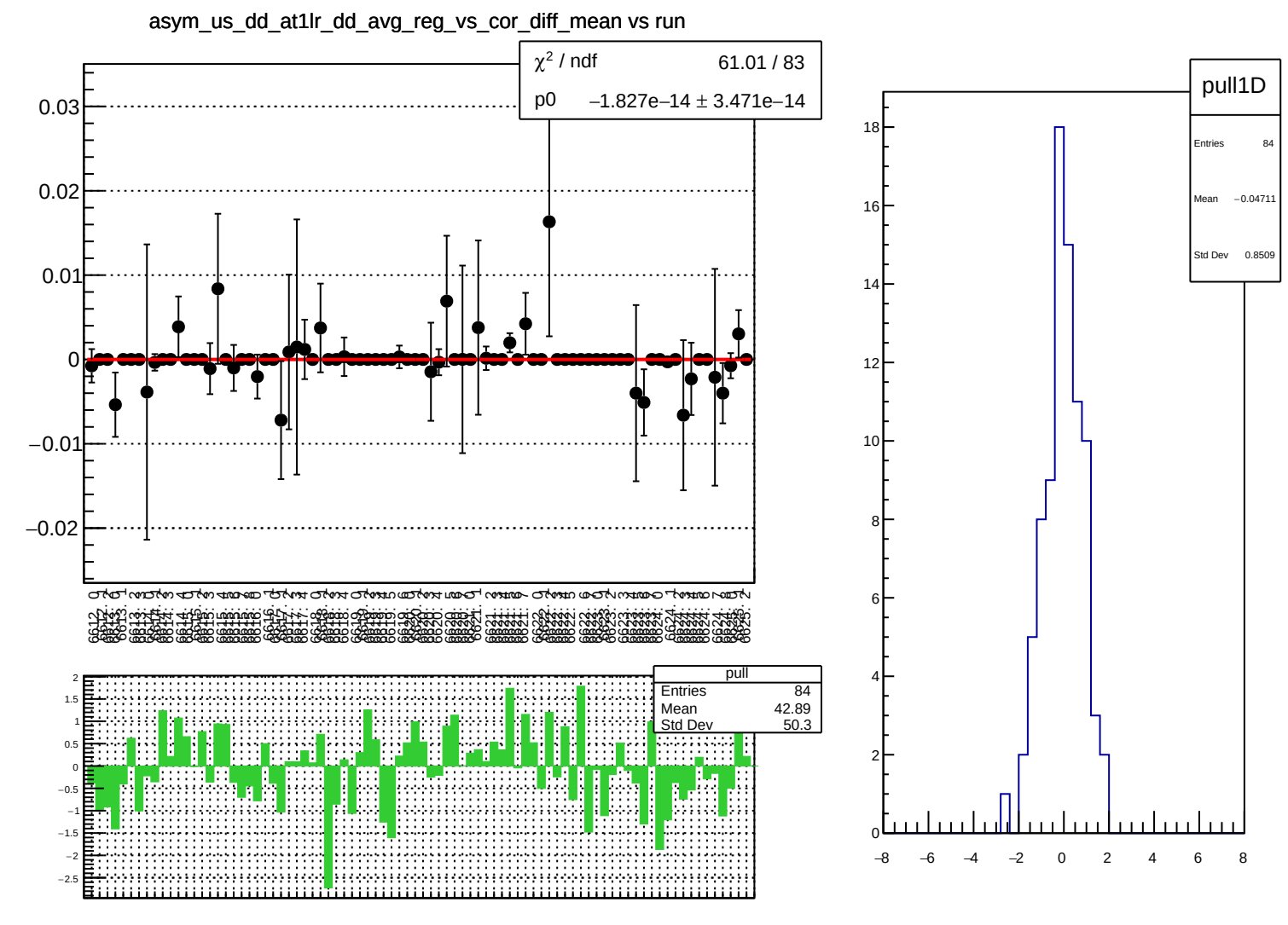

pull1D
Entries 84
Mean −0.003613
Std Dev 0.8926

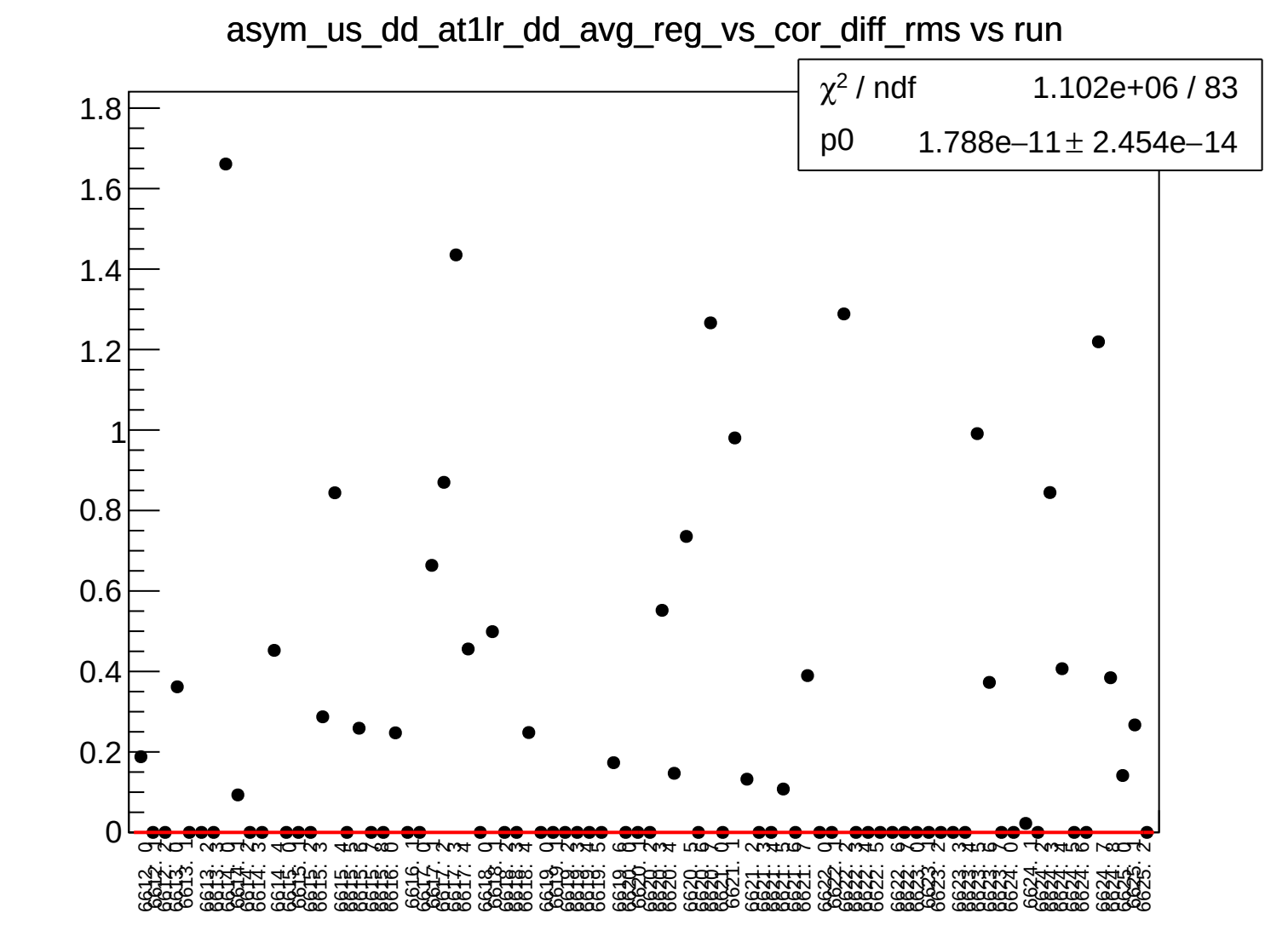

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 392.6 / 83
p0 2685 ± 2.101
2850
2800
2750
2700
2650
2600

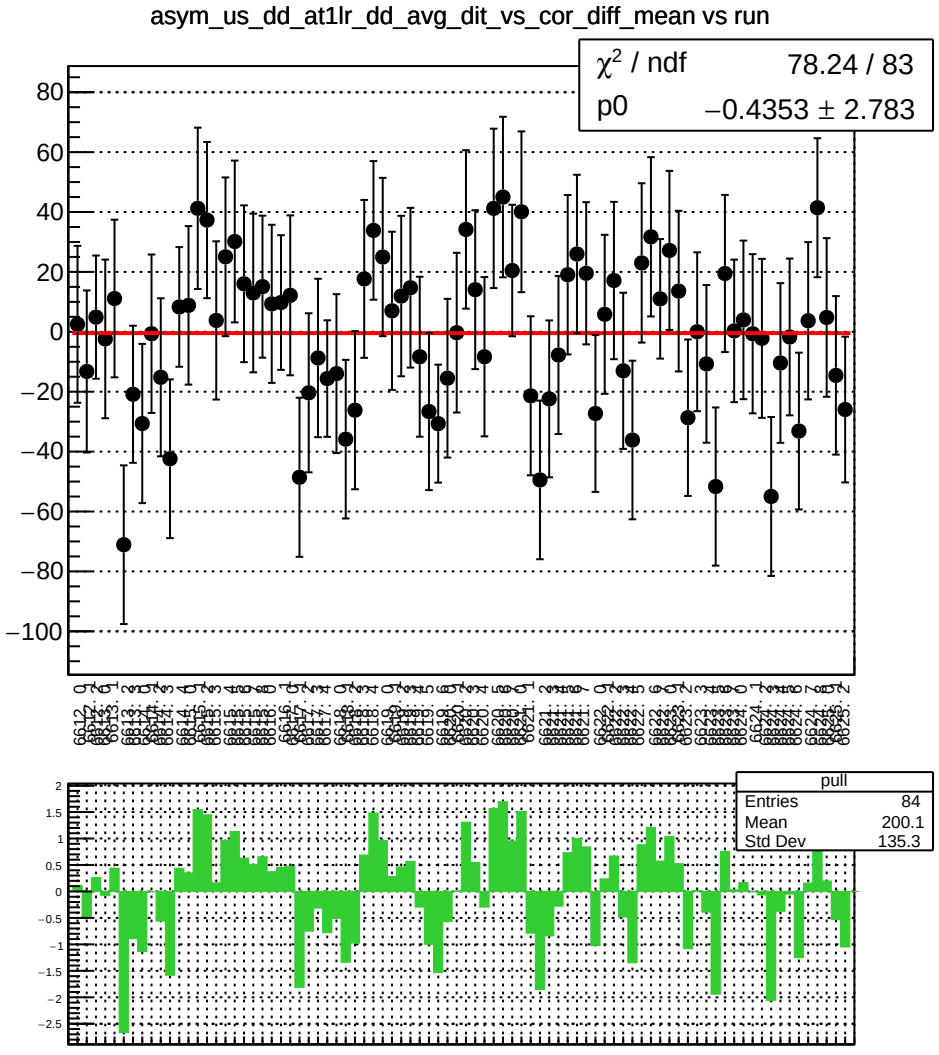

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 61.92 / 83
p0 2409 ± 3237
100
50
0
−50
−100
pull
Entries 84
Mean −72.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

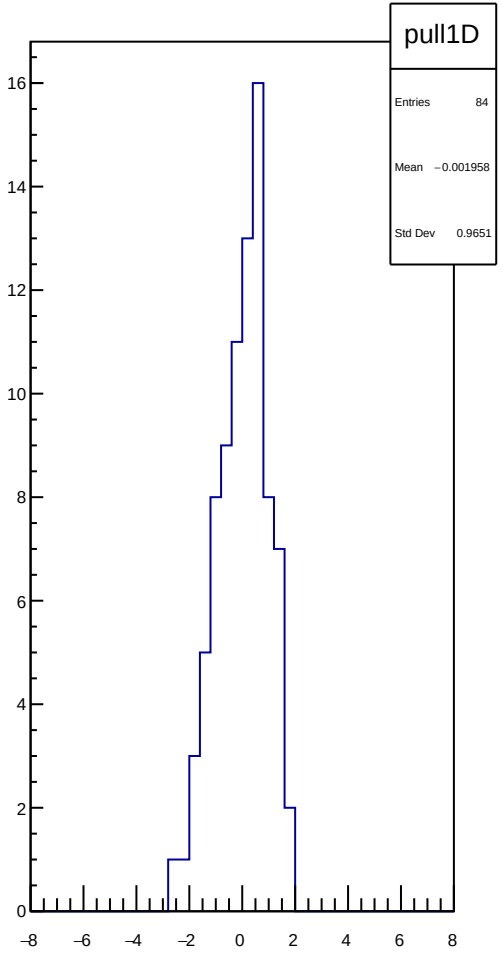

pull1D
Entries 84
Mean 0.00626
Std Dev 0.8585
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

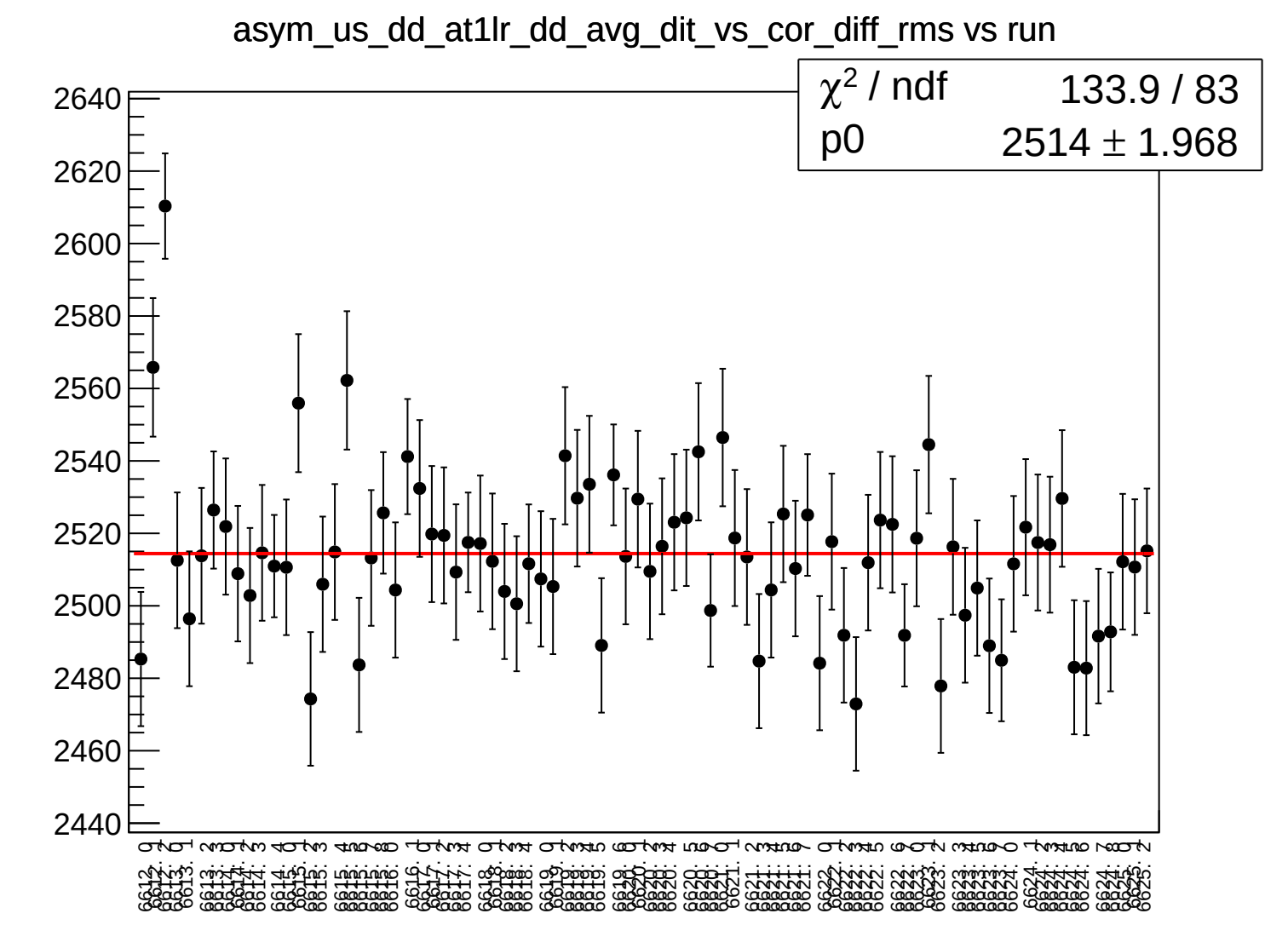

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 387.6 / 83
p0 2924 ± 2.289
3150
3100
3050
3000
2950
2900
2850
2800

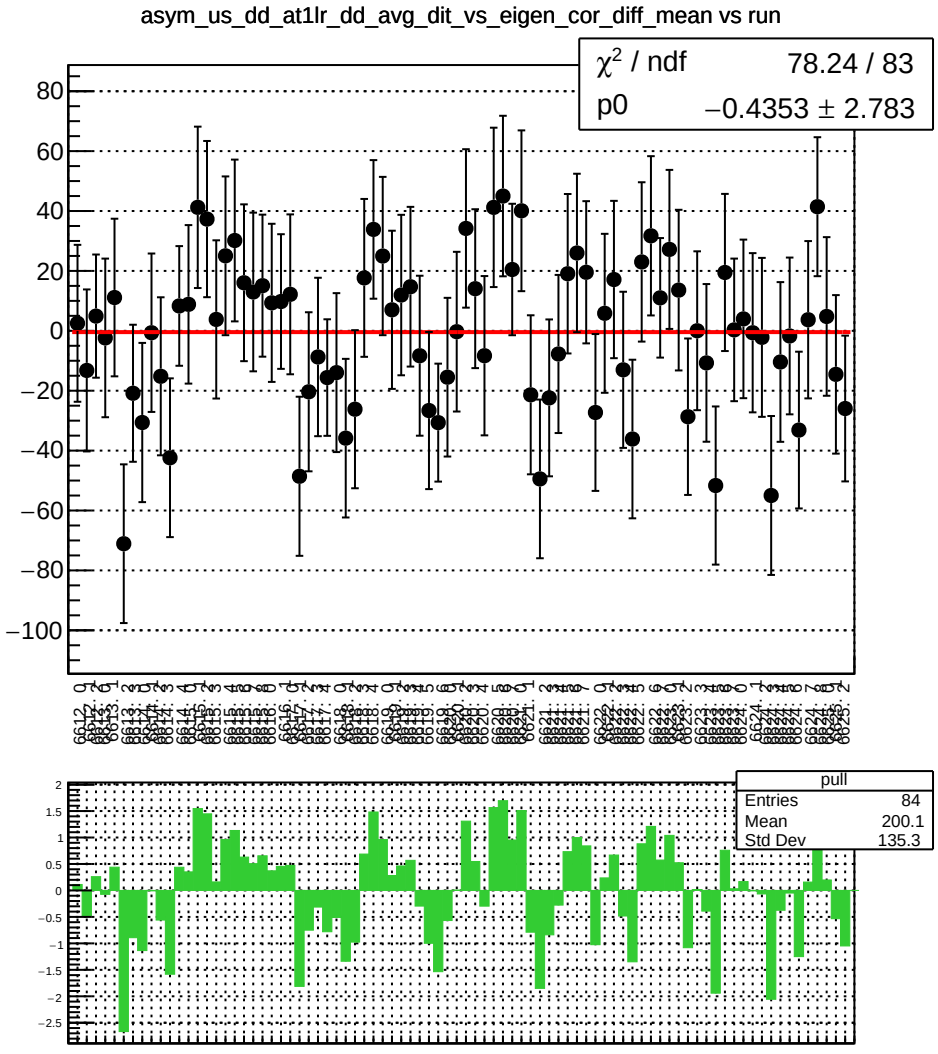

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 61.01 / 83
p0 −1.827e−14 ± 3.471e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 42.89
Std Dev 50.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 84
Mean −0.04711
Std Dev 0.8509
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

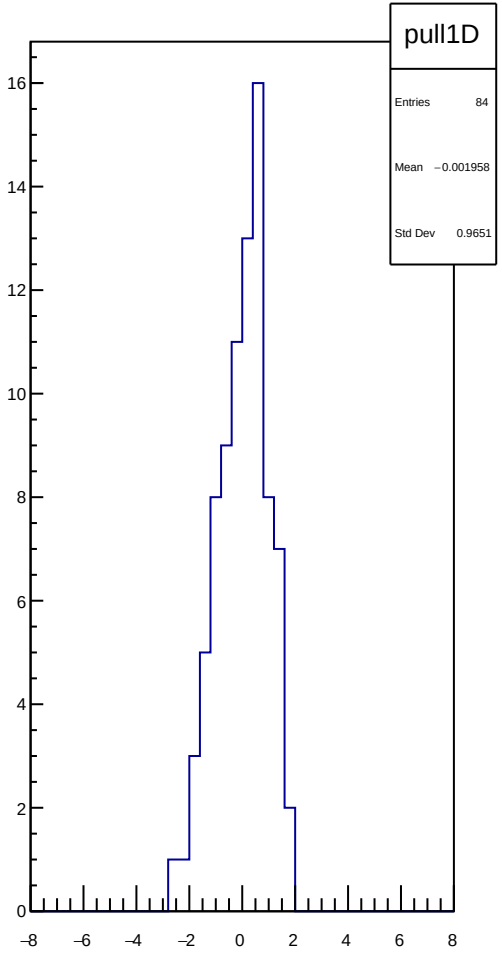

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.102e+06 / 83
p0 1.788e−11 ± 2.454e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

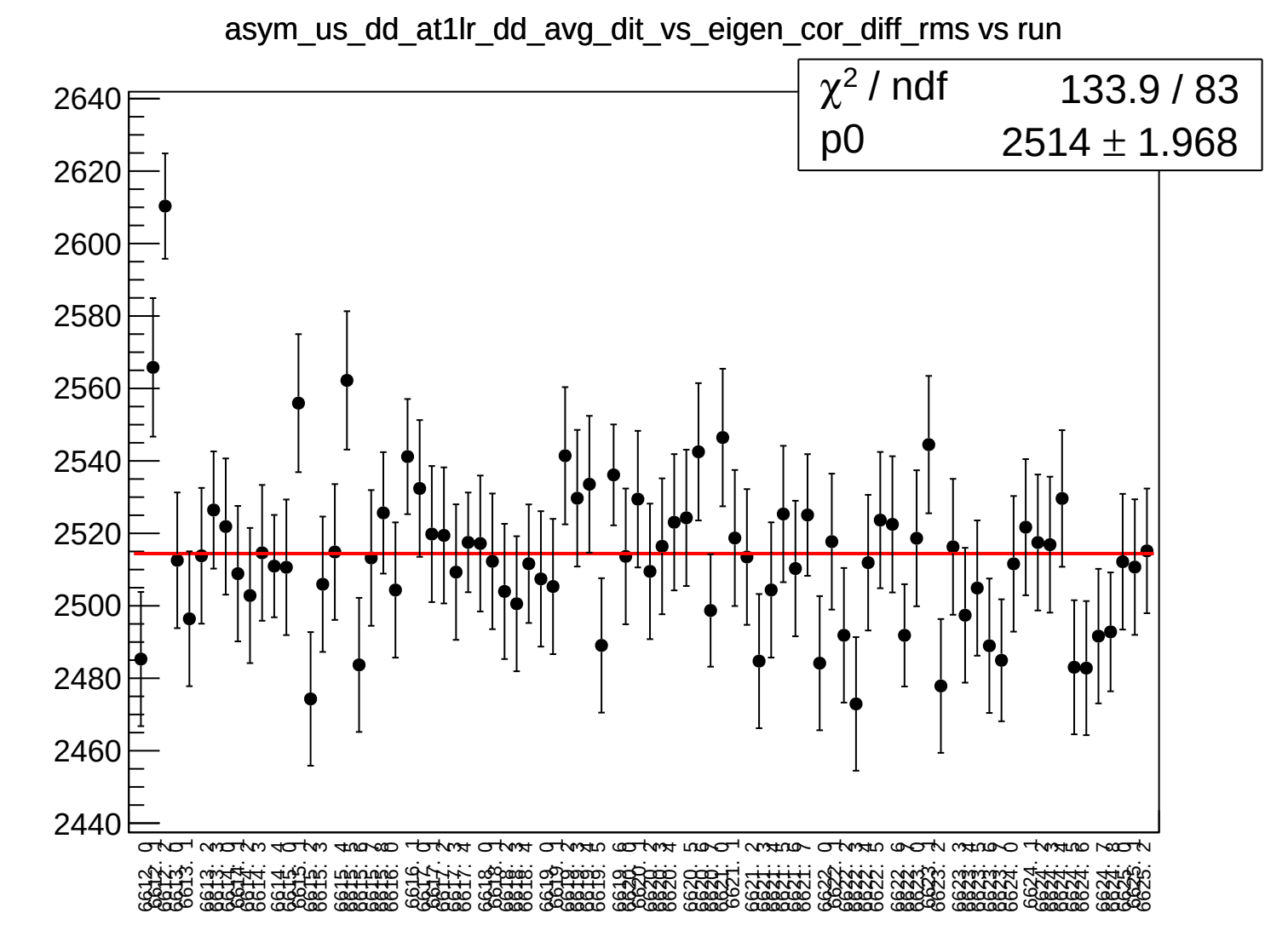

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.24 / 83
p0 −0.4353 ± 2.783
pull
Entries 84
Mean 200.1
Std Dev 135.3

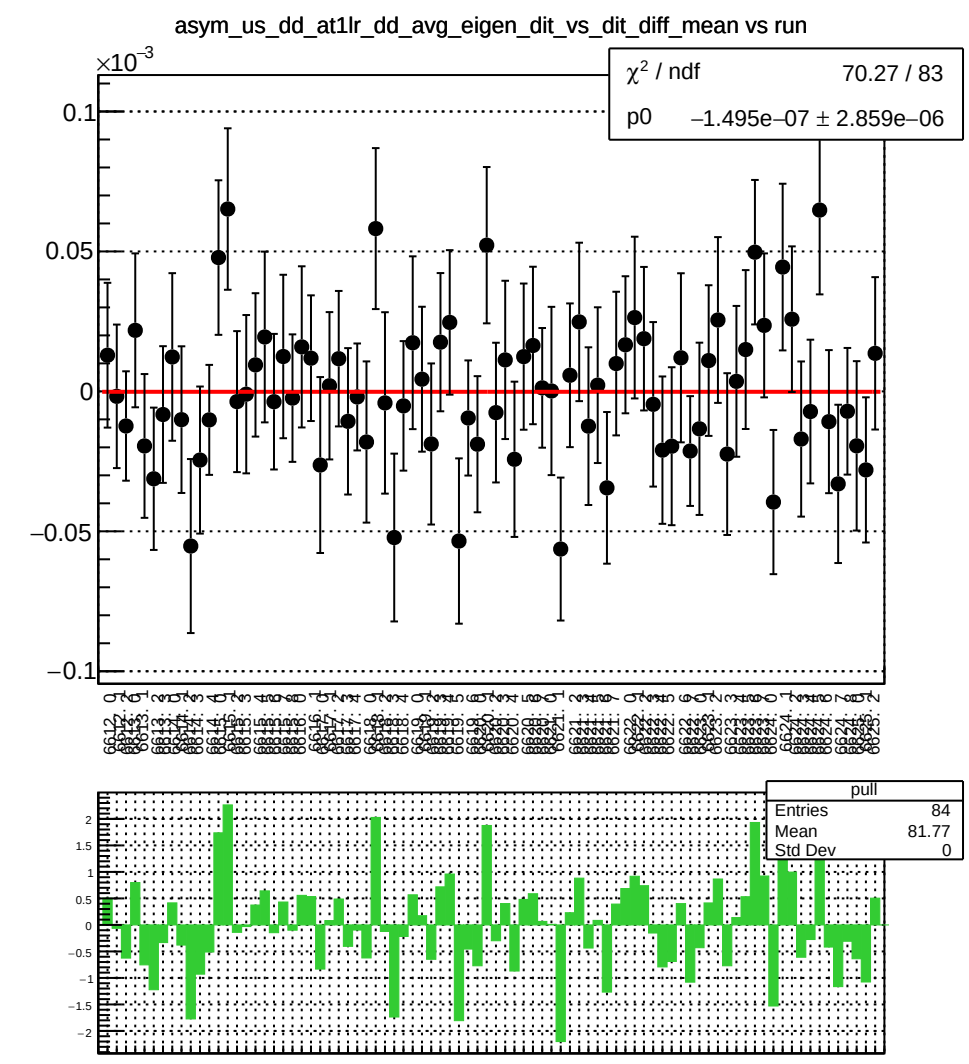

pull1D
Entries 84
Mean −0.001958
Std Dev 0.9651

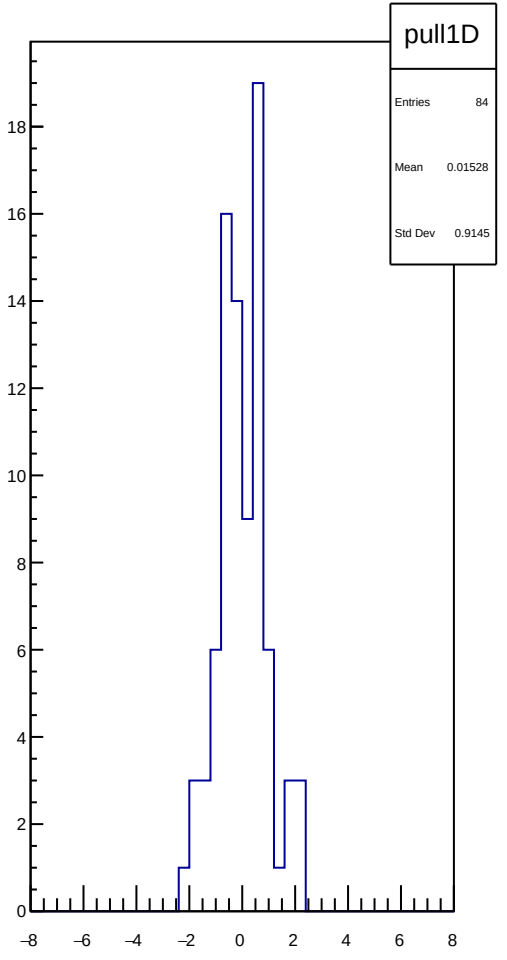

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 133.9 / 83
p0 2514 ± 1.968
2640
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440

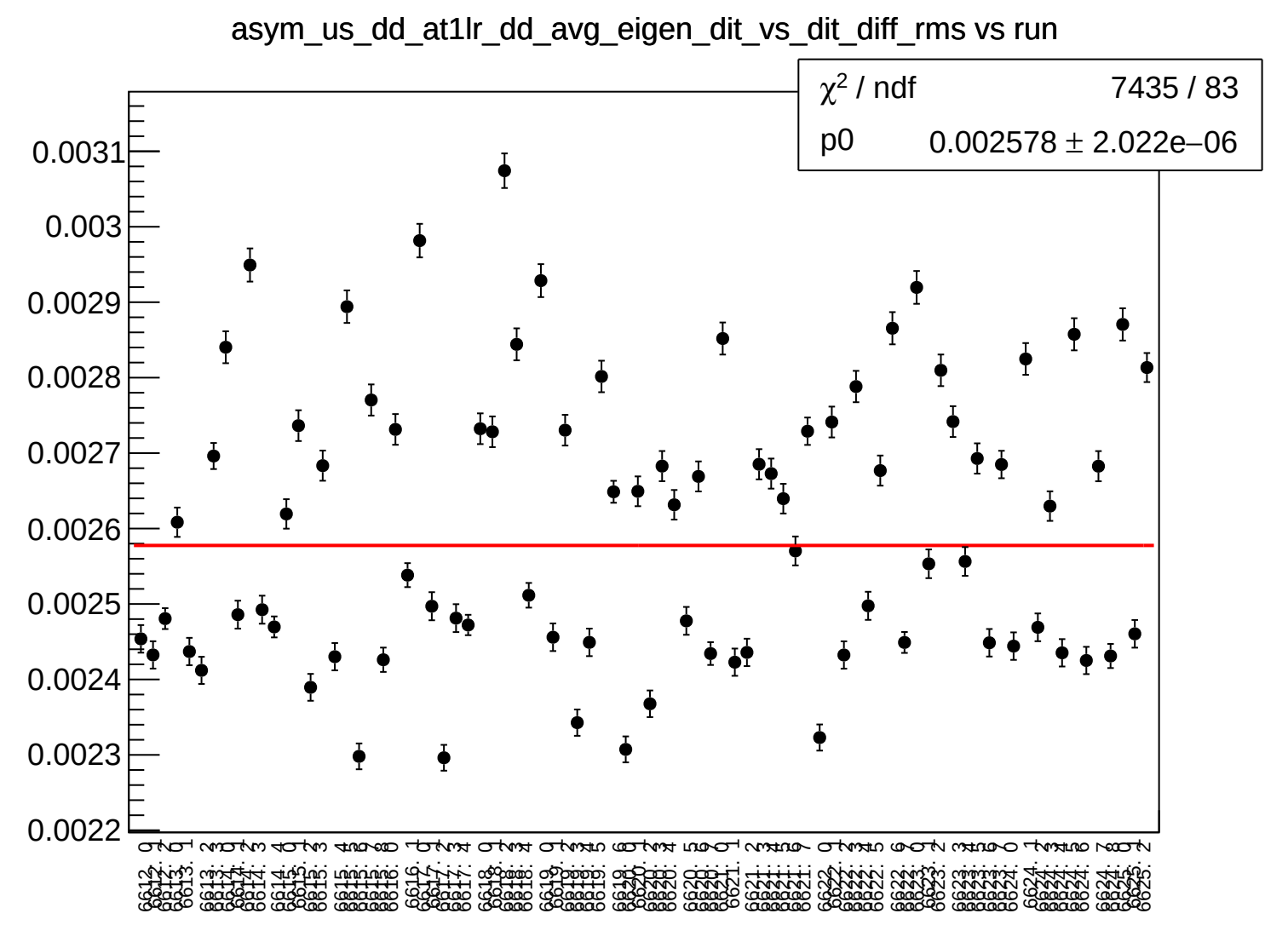

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.24 / 83
p0 −0.4353 ± 2.783
pull
Entries 84
Mean 200.1
Std Dev 135.3

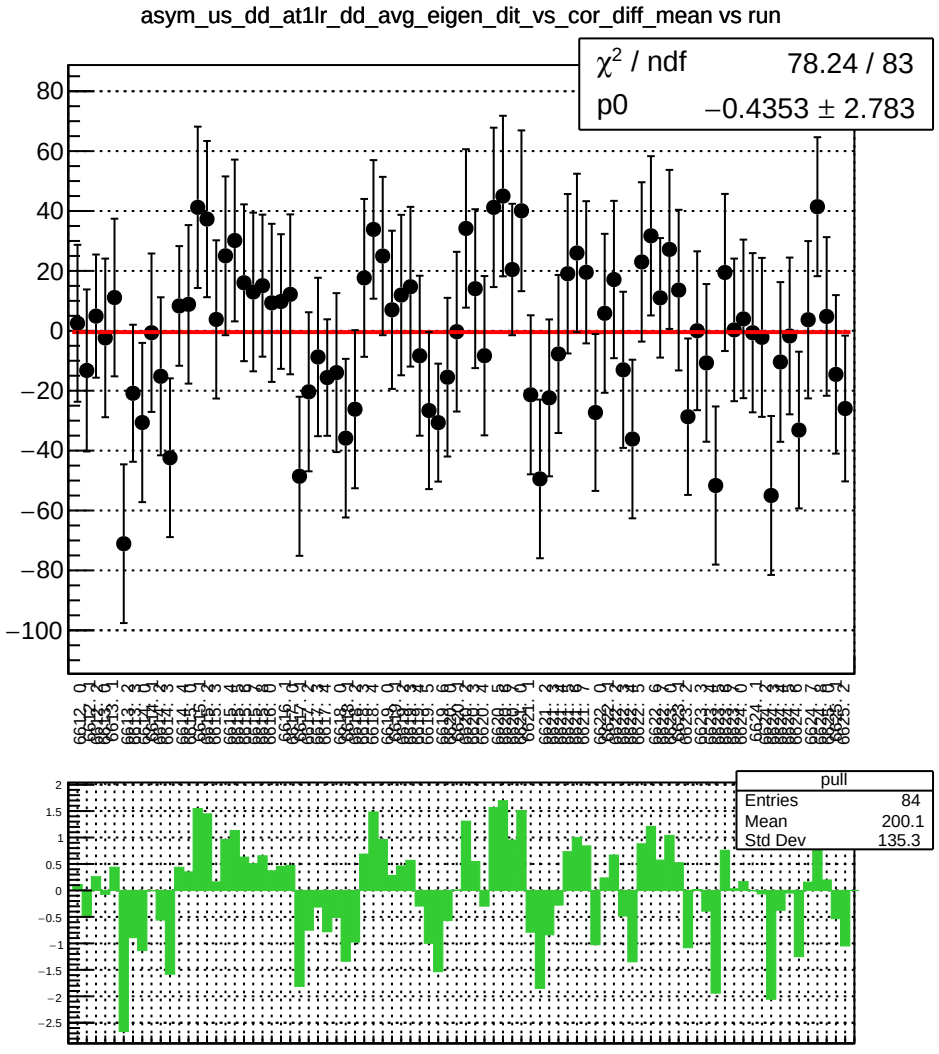

pull1D
Entries 84
Mean −0.001958
Std Dev 0.9651

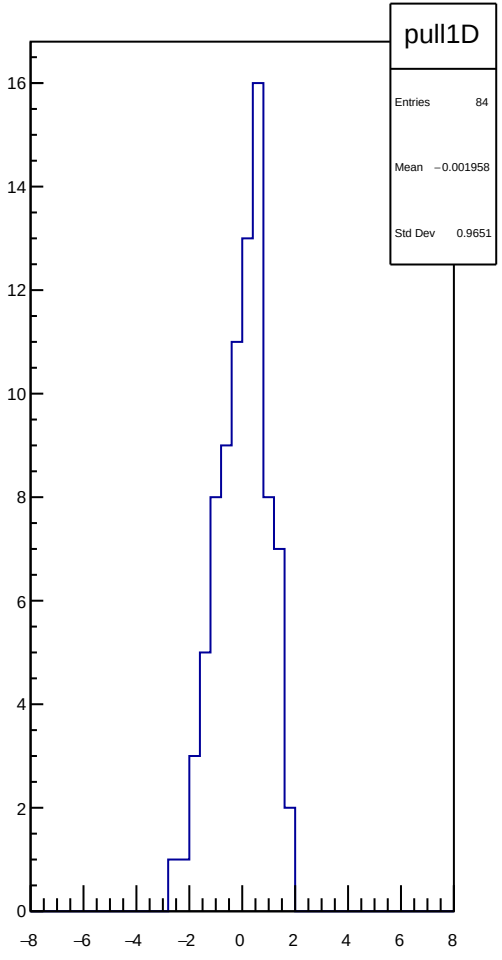

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 133.9 / 83
p0 2514 ± 1.968
2640
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440

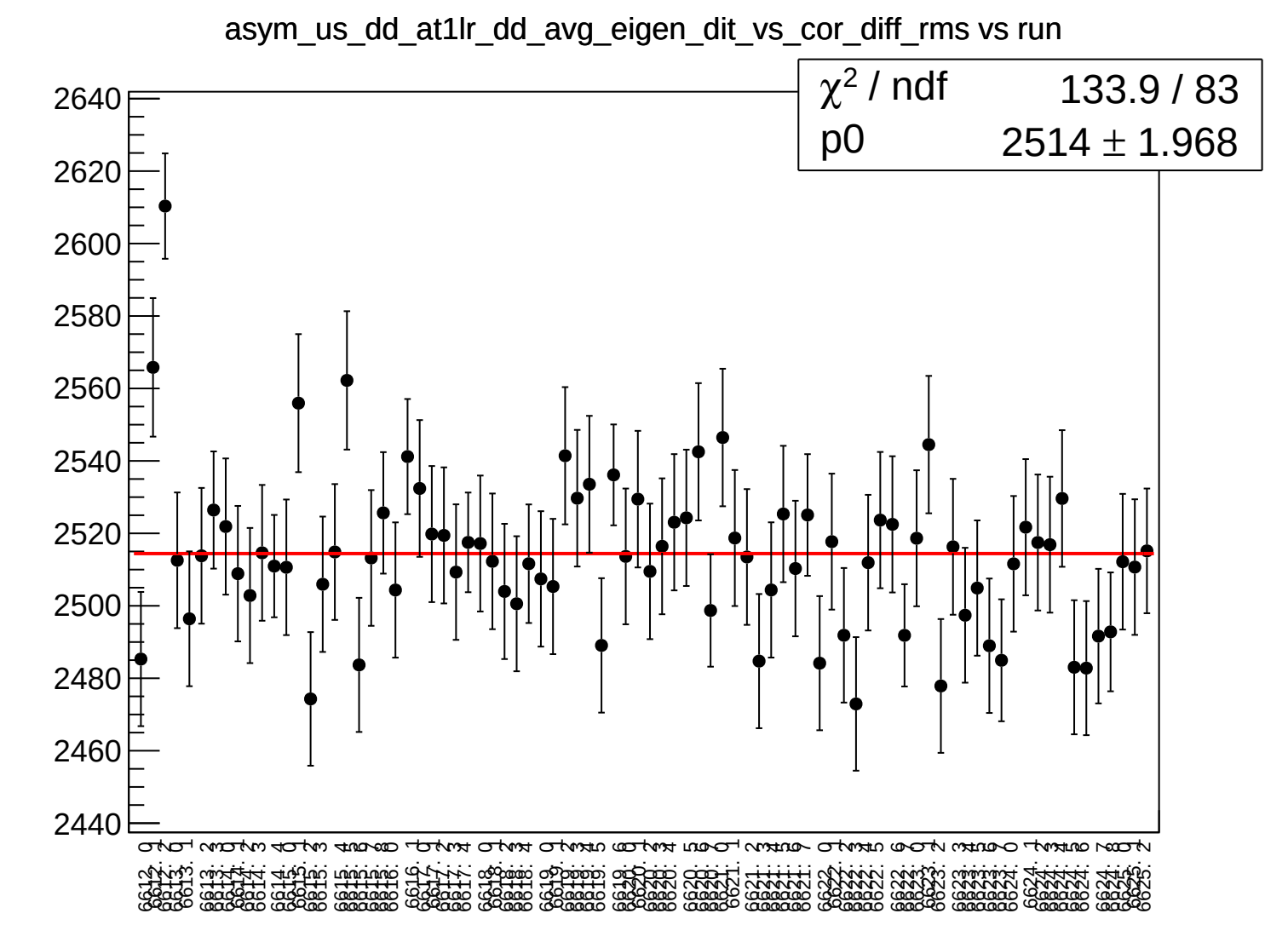

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.27 / 83
p0 −1.495e−07 ± 2.859e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean 81.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

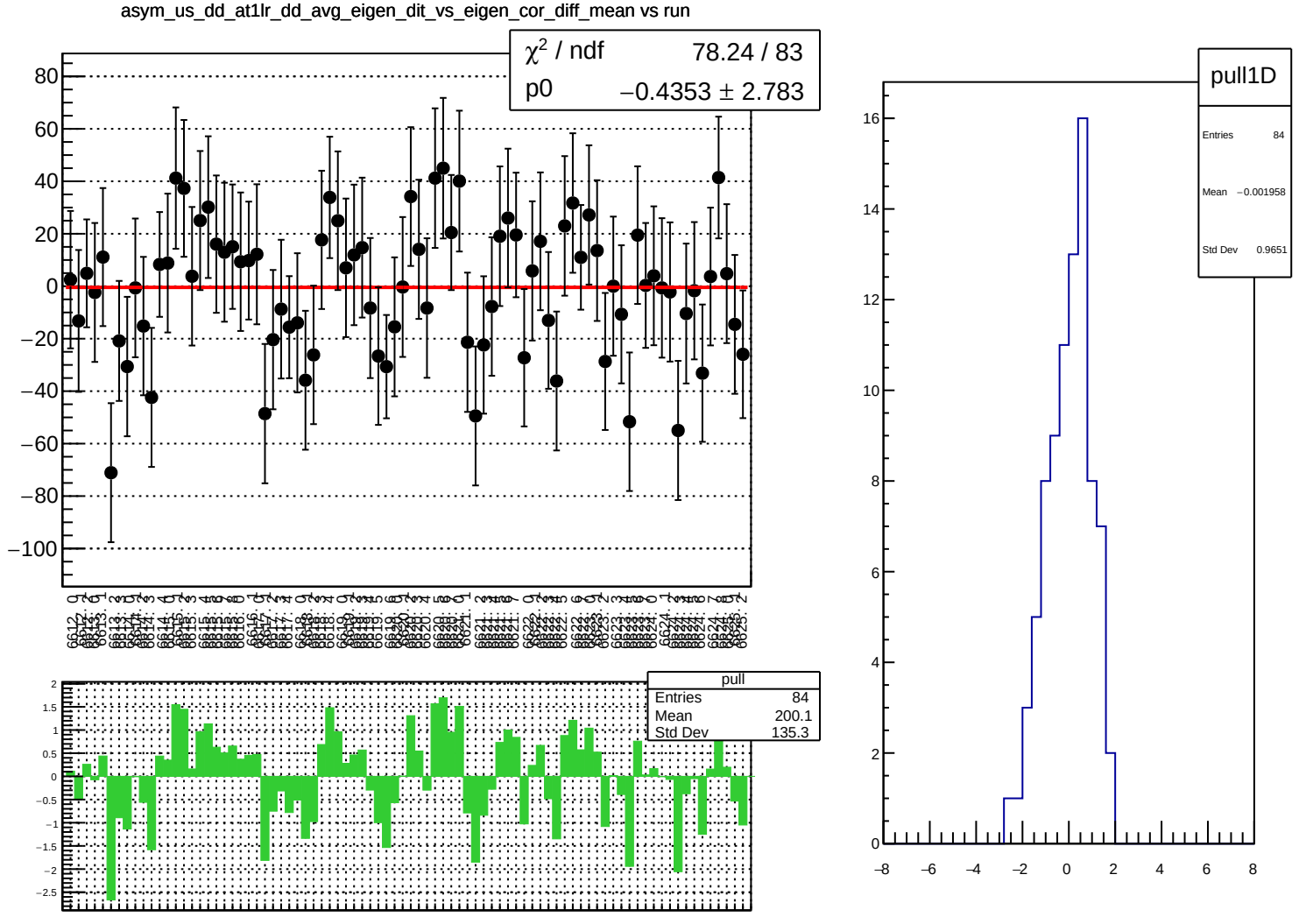

pull1D
Entries 84
Mean 0.01528
Std Dev 0.9145
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

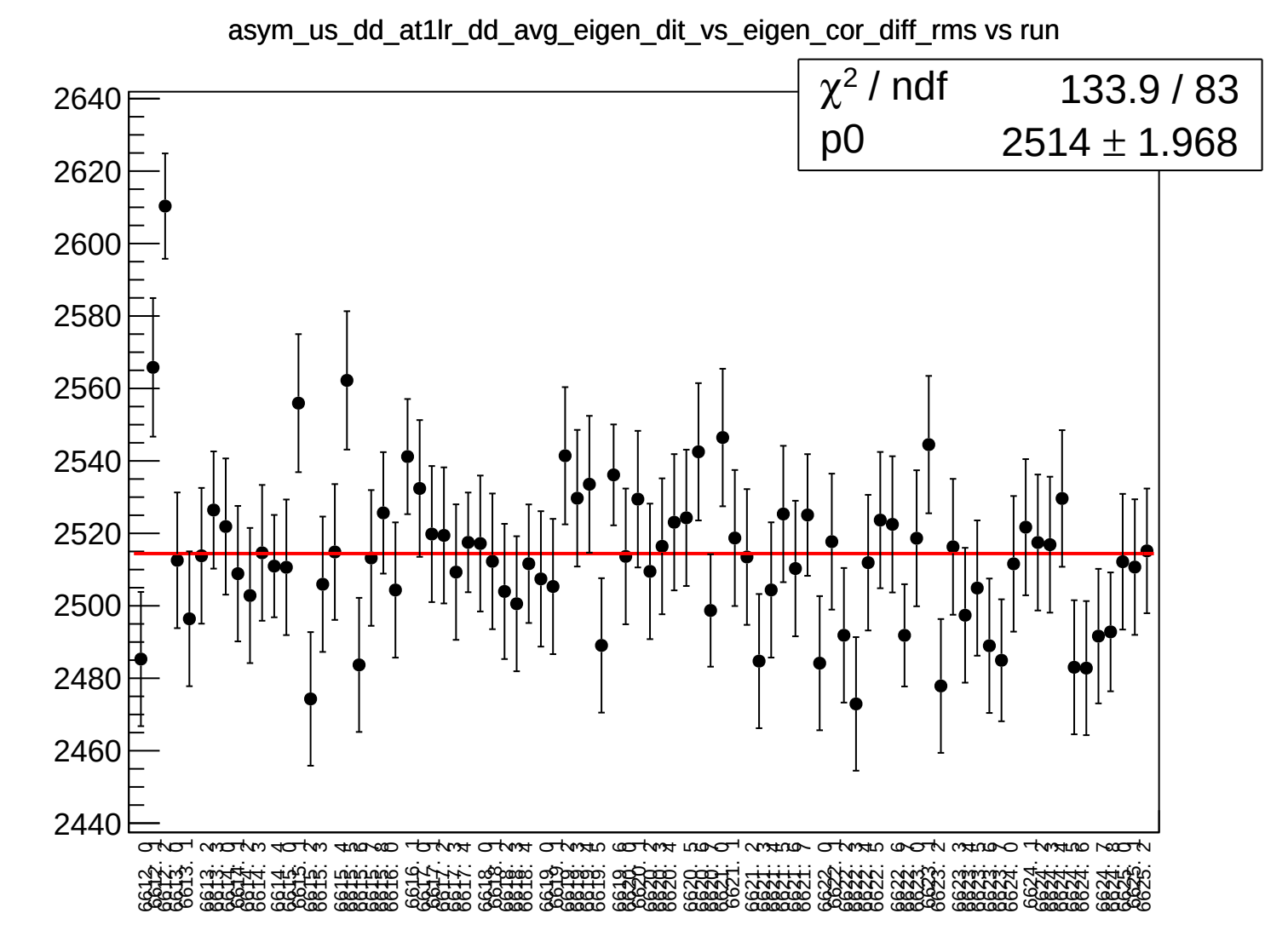

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7435 / 83
p0 0.002578 ± 2.022e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022

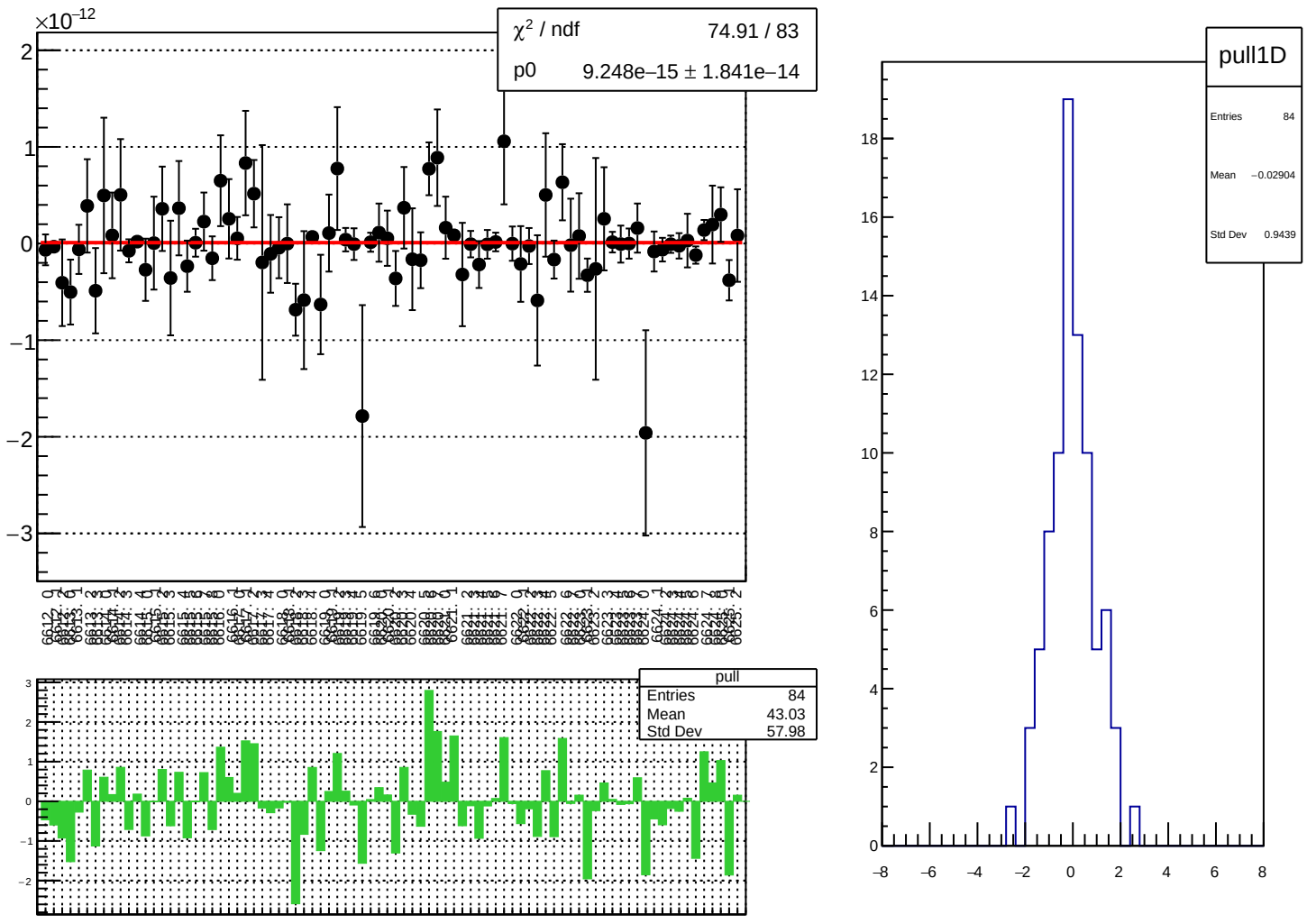

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.24 / 83
p0 −0.4353 ± 2.783
pull
Entries 84
Mean 200.1
Std Dev 135.3

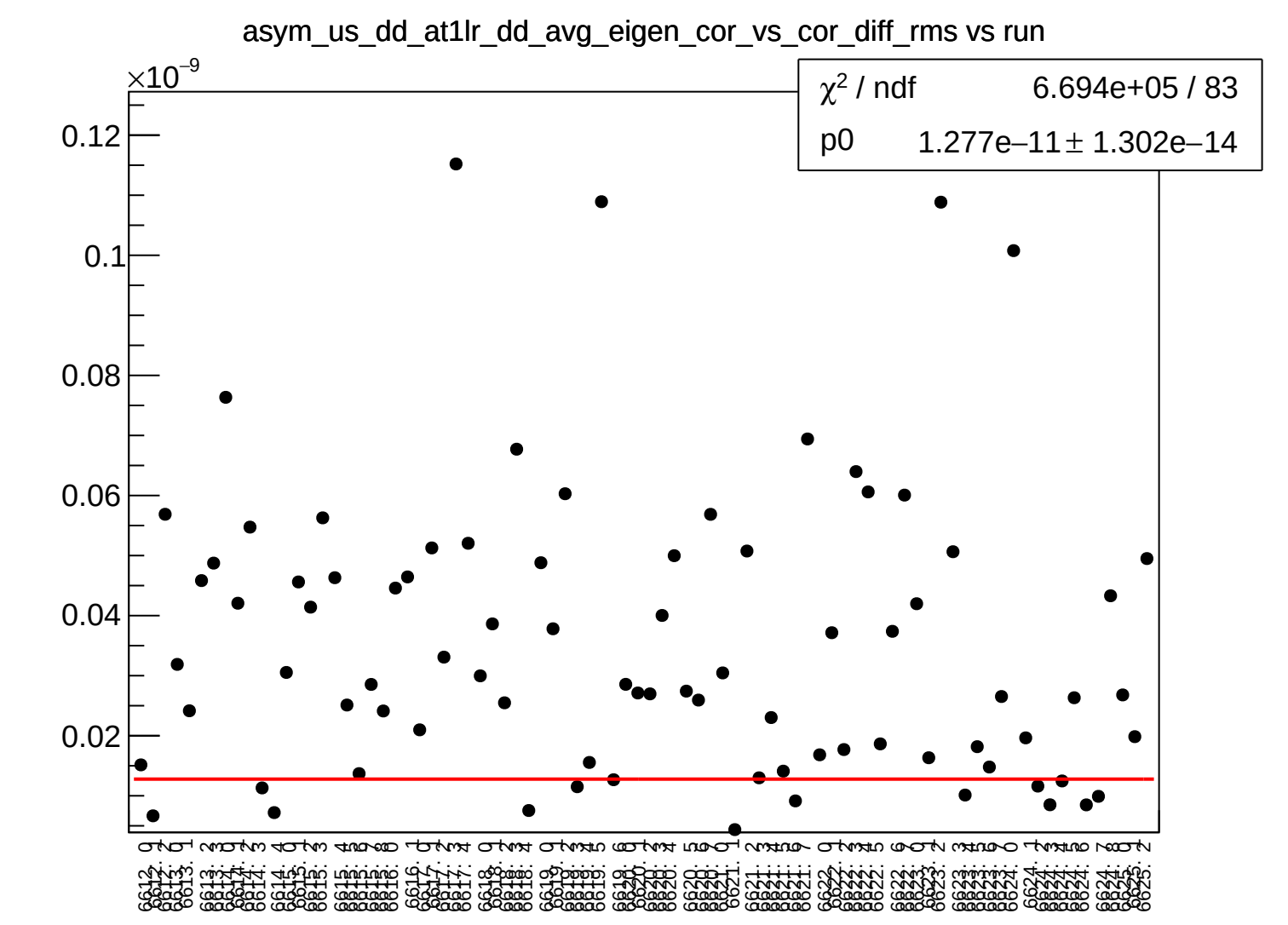

pull1D
Entries 84
Mean −0.001958
Std Dev 0.9651

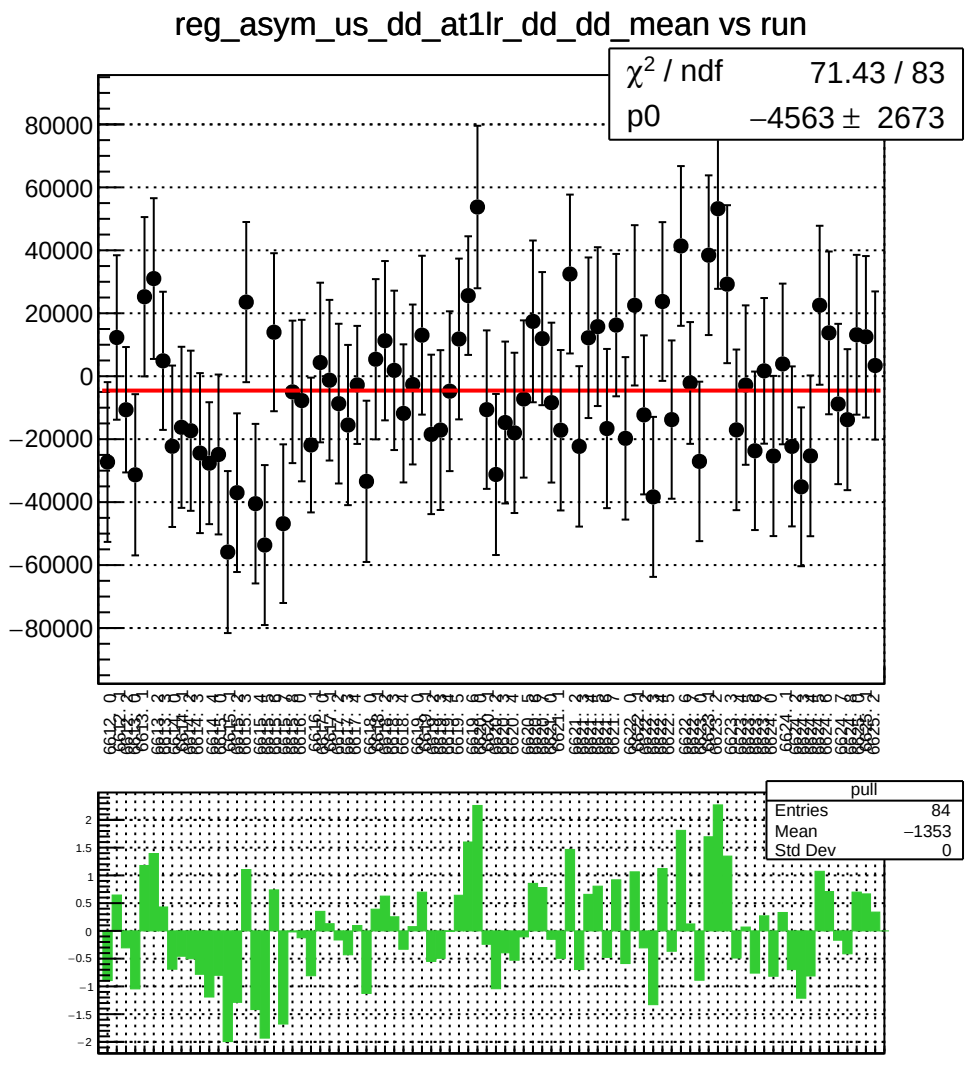

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 133.9 / 83
p0 2514 ± 1.968
2640
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440

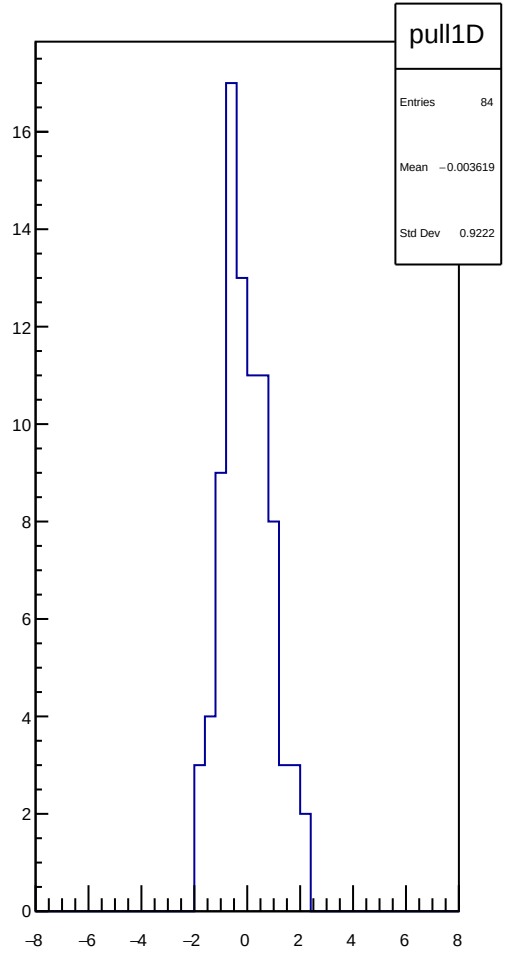

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.24 / 83
p0 −0.4353 ± 2.783
pull
Entries 84
Mean 200.1
Std Dev 135.3
pull1D
Entries 84
Mean −0.001958
Std Dev 0.9651

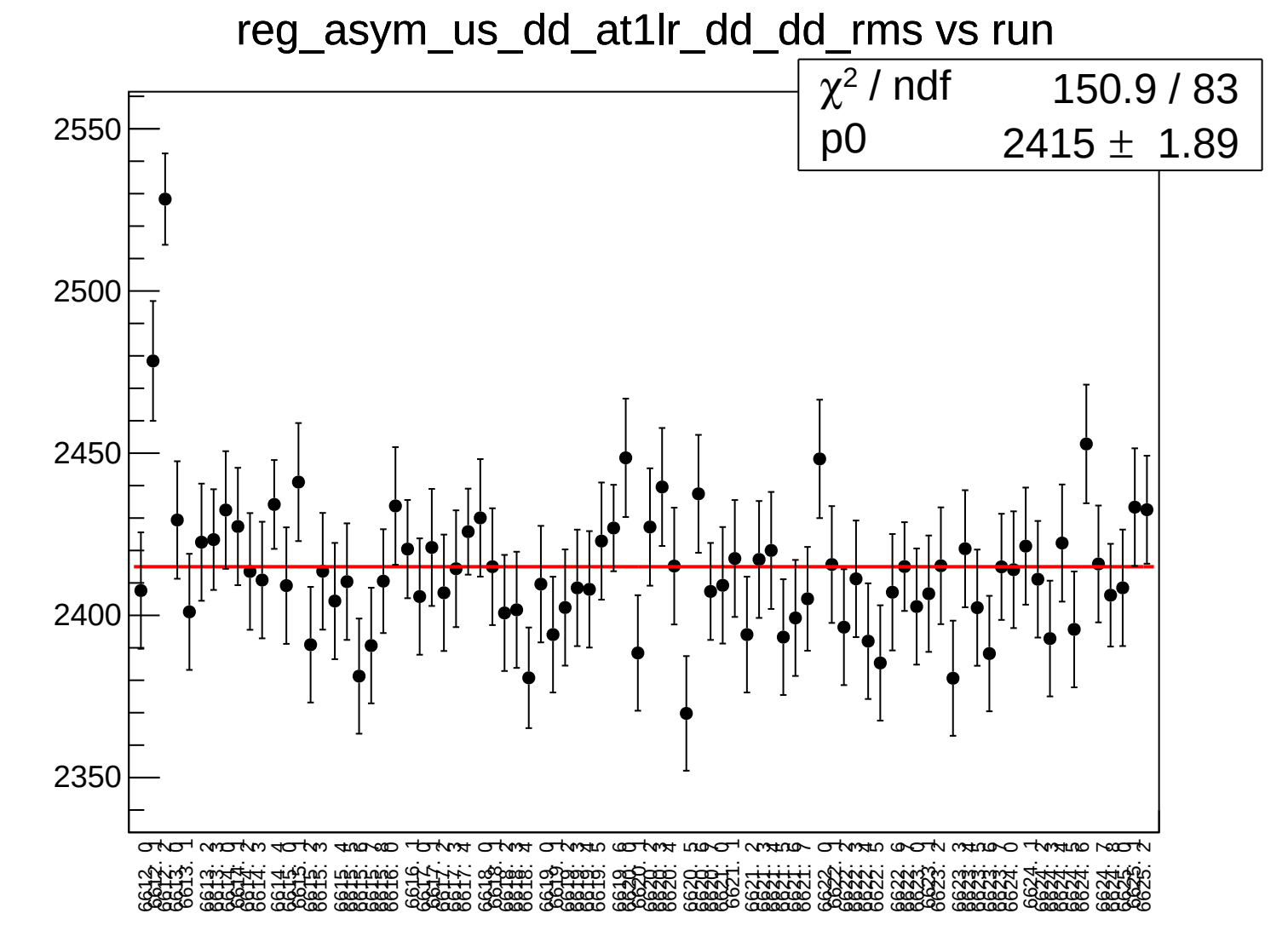

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 133.9 / 83
p0 2514 ± 1.968
2640
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440

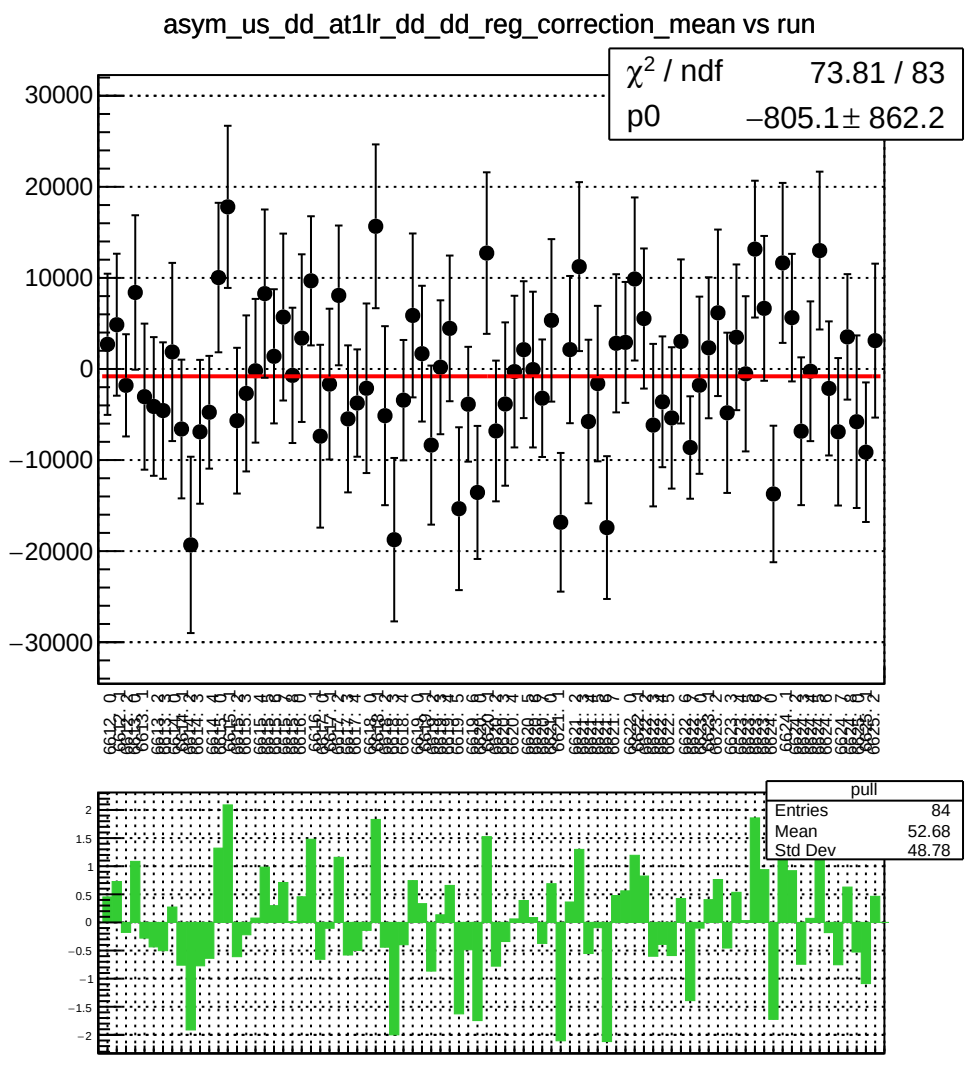

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.91 / 83
p0 9.248e−15 ± 1.841e−14
pull
Entries 84
Mean 43.03
Std Dev 57.98
pull1D
Entries 84
Mean −0.02904
Std Dev 0.9439

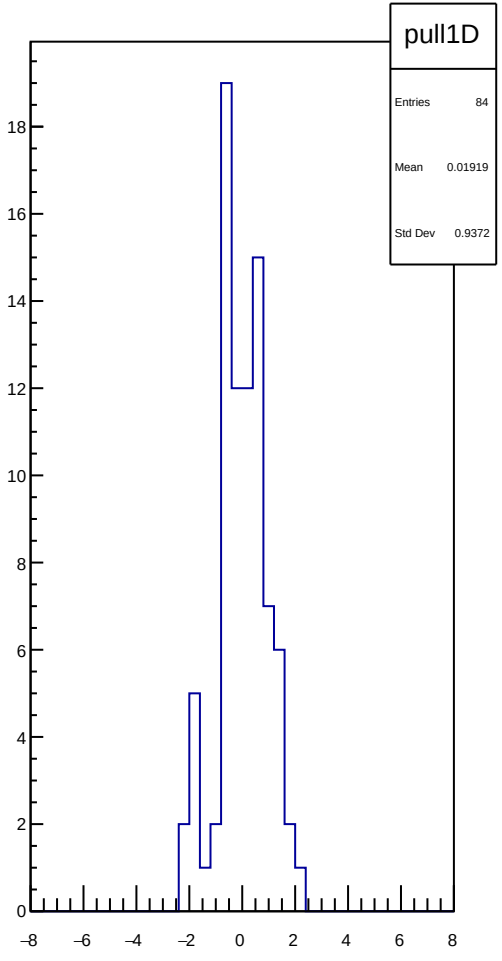

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.694e+05 / 83
p0 1.277e−11 ± 1.302e−14
0.12
0.1
0.08
0.06
0.04
0.02

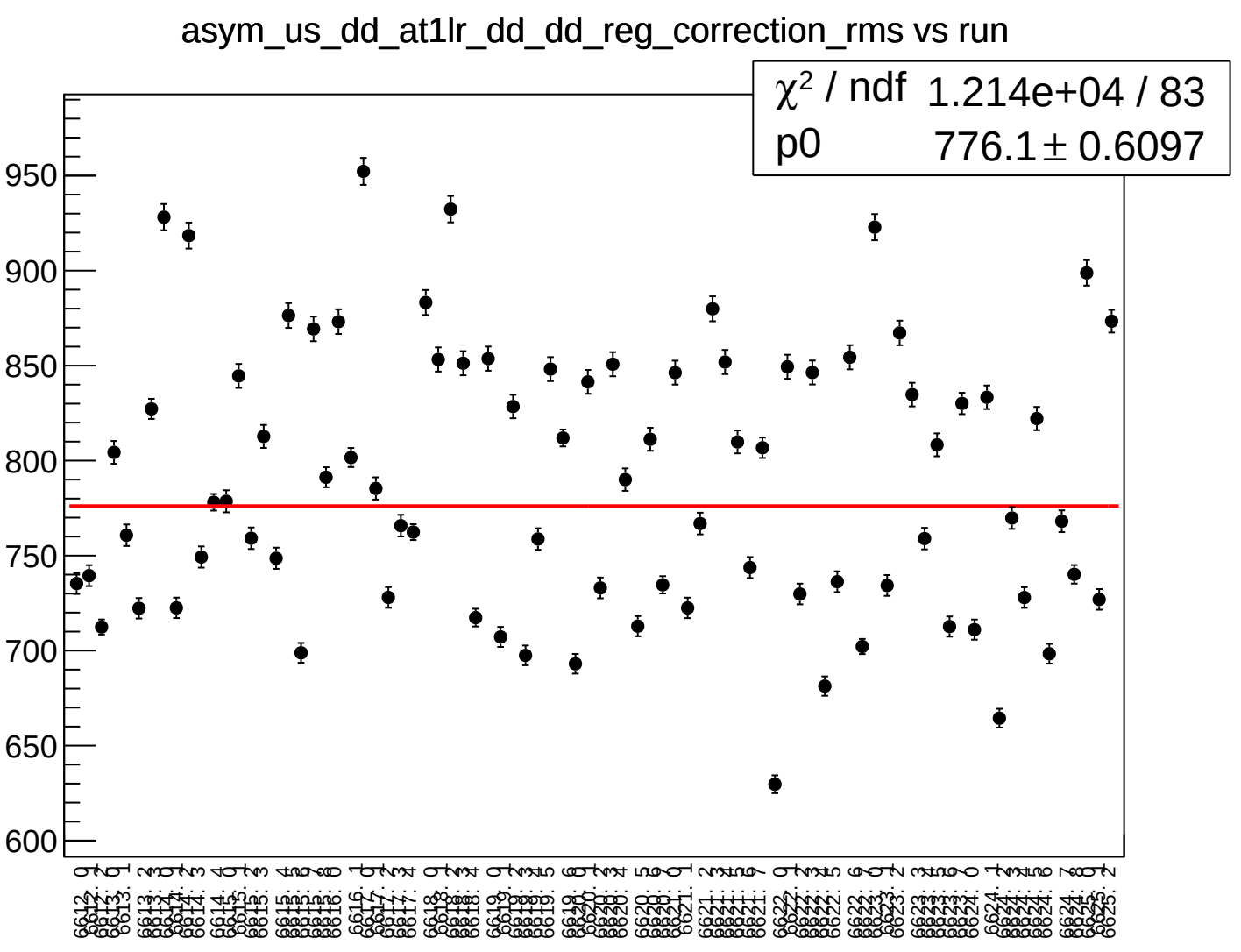

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 71.43 / 83
p0 −4563 ± 2673
pull
Entries 84
Mean −1353
Std Dev 0

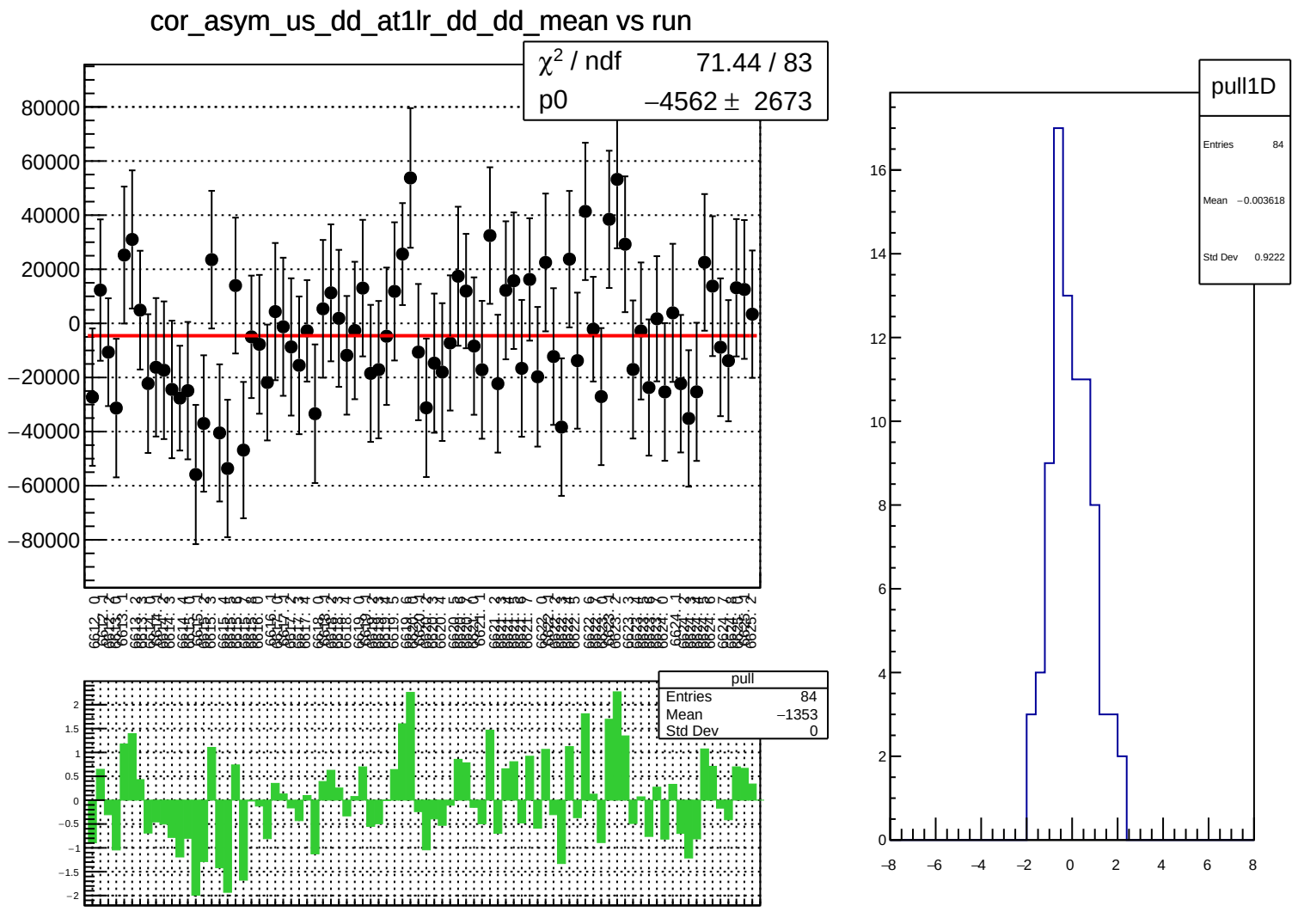

pull1D
Entries 84
Mean −0.003619
Std Dev 0.9222

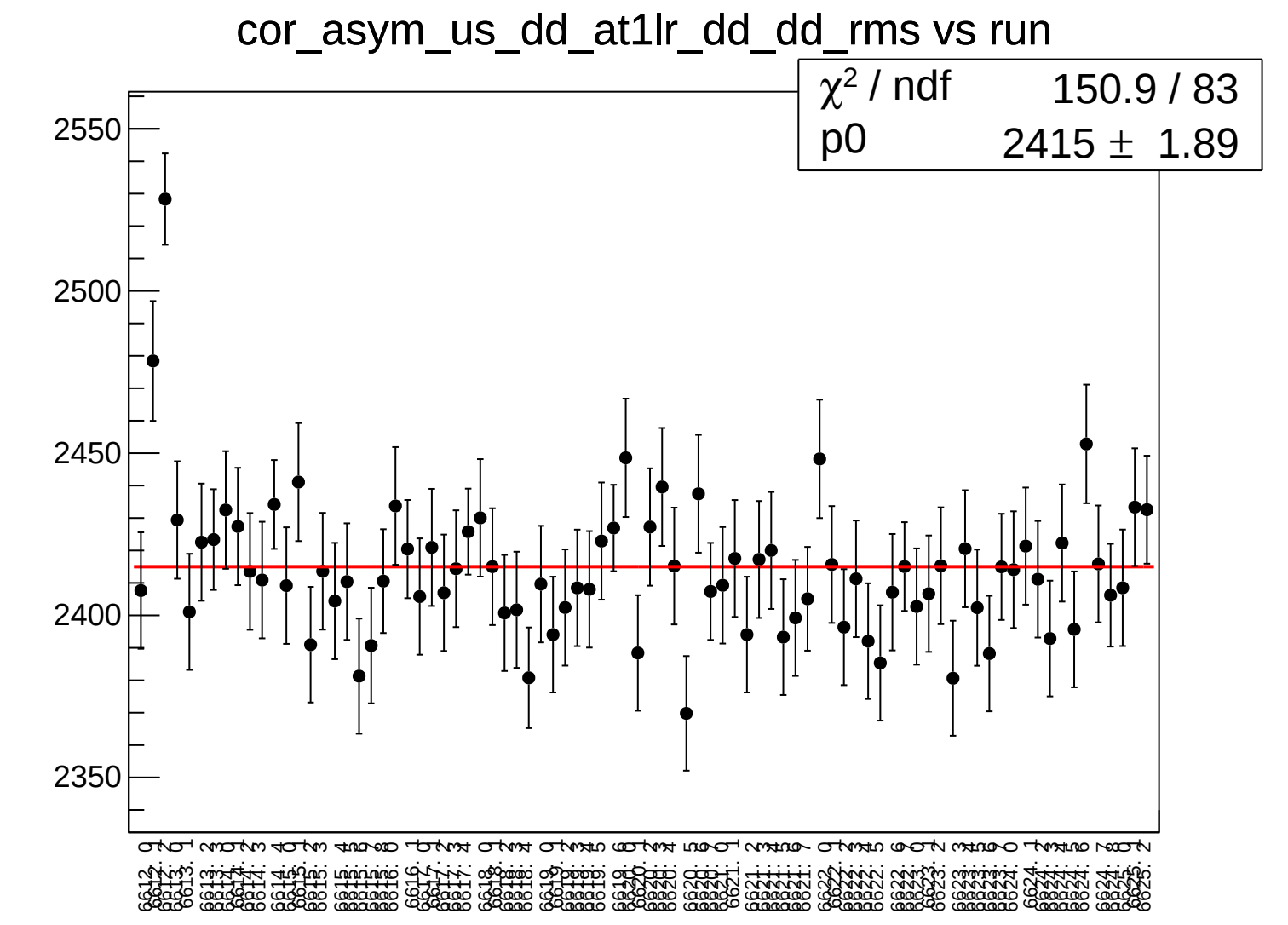

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 150.9 / 83
p0 2415 ± 1.89
2550
2500
2450
2400
2350

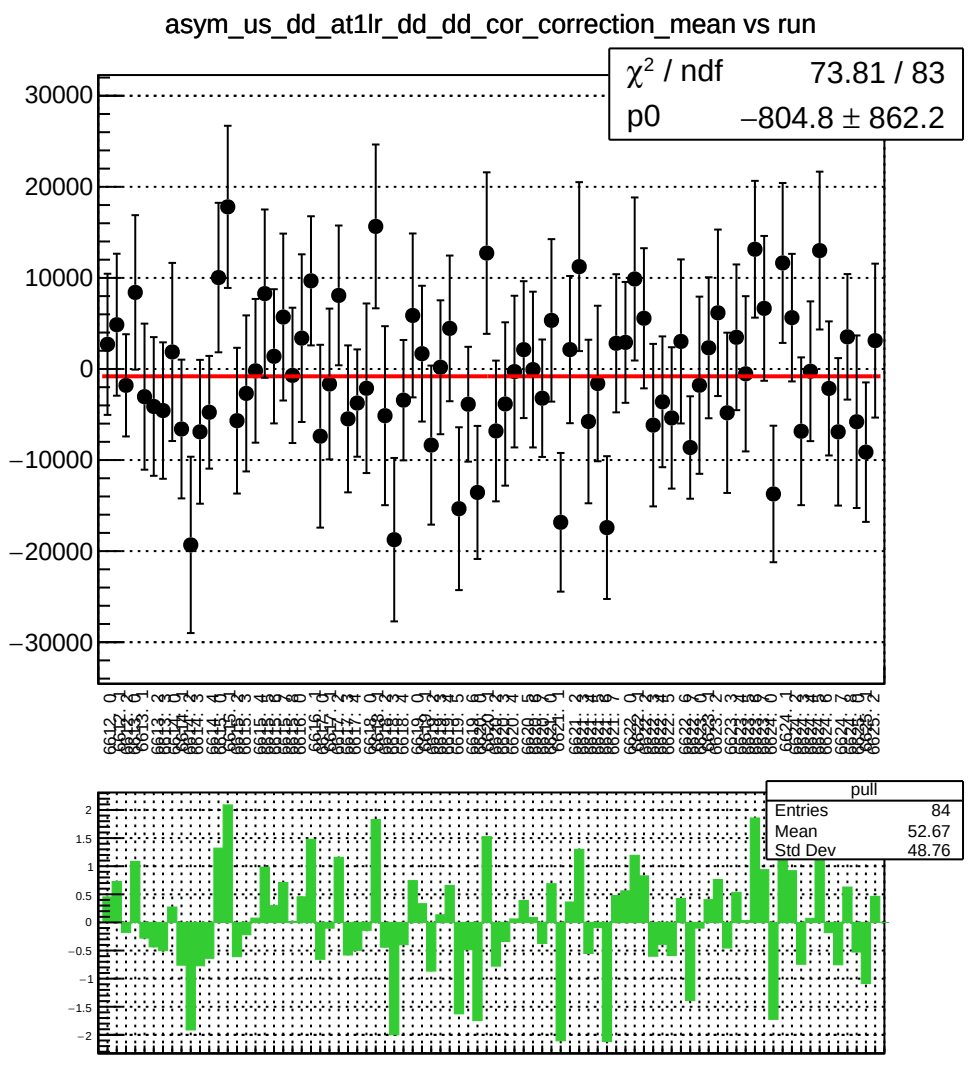

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 73.81 / 83
p0 −805.1± 862.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 52.68
Std Dev 48.78
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

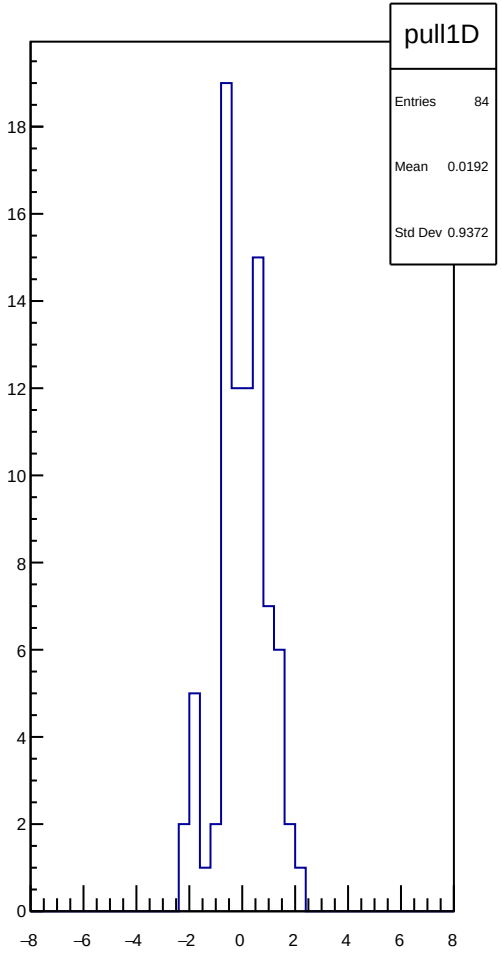

pull1D
Entries 84
Mean 0.01919
Std Dev 0.9372
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

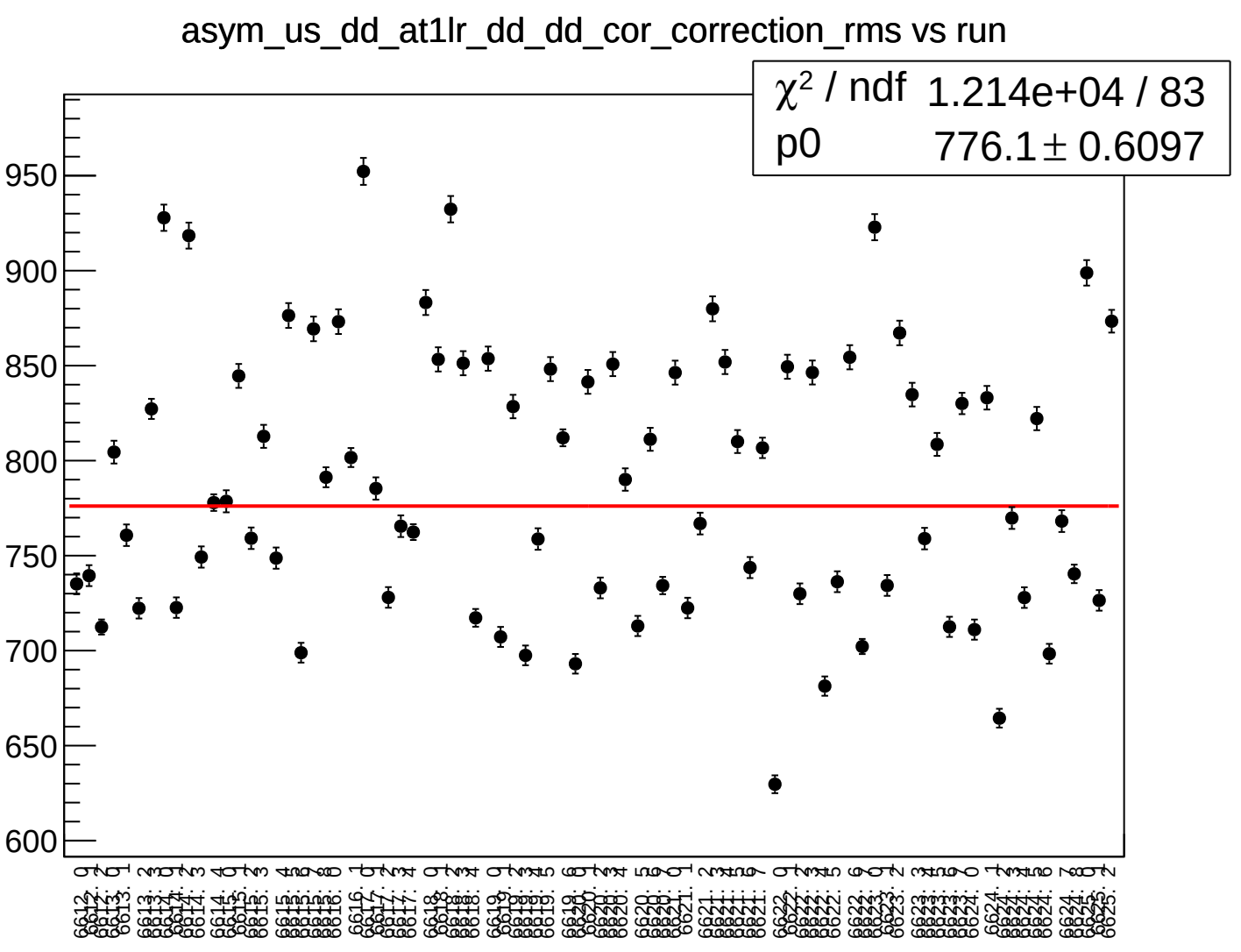

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.214e+04 / 83
p0 776.1 ± 0.6097
950
900
850
800
750
700
650
600

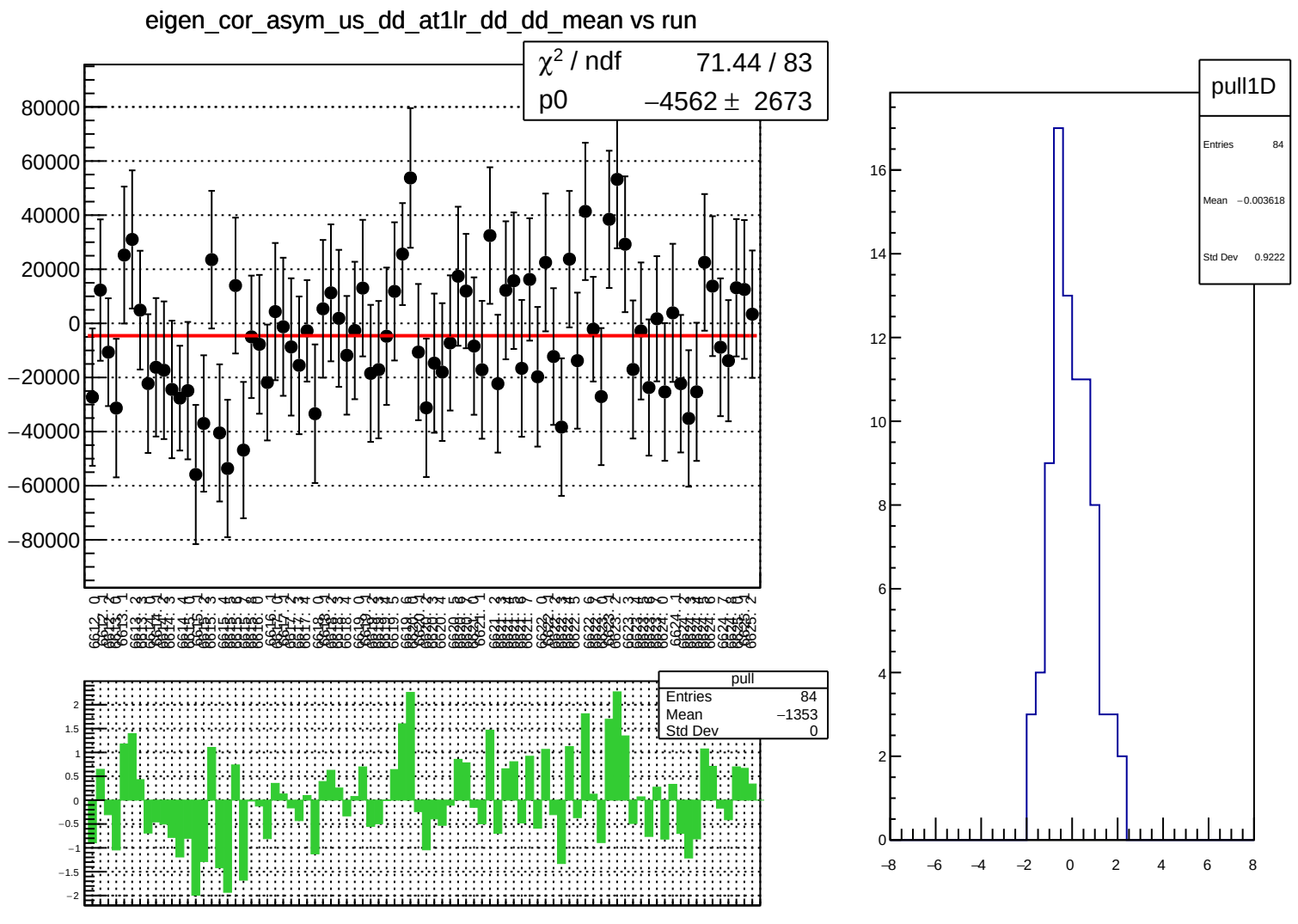

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 71.44 / 83
p0 −4562 ± 2673
pull
Entries 84
Mean −1353
Std Dev 0
pull1D
Entries 84
Mean −0.003618
Std Dev 0.9222

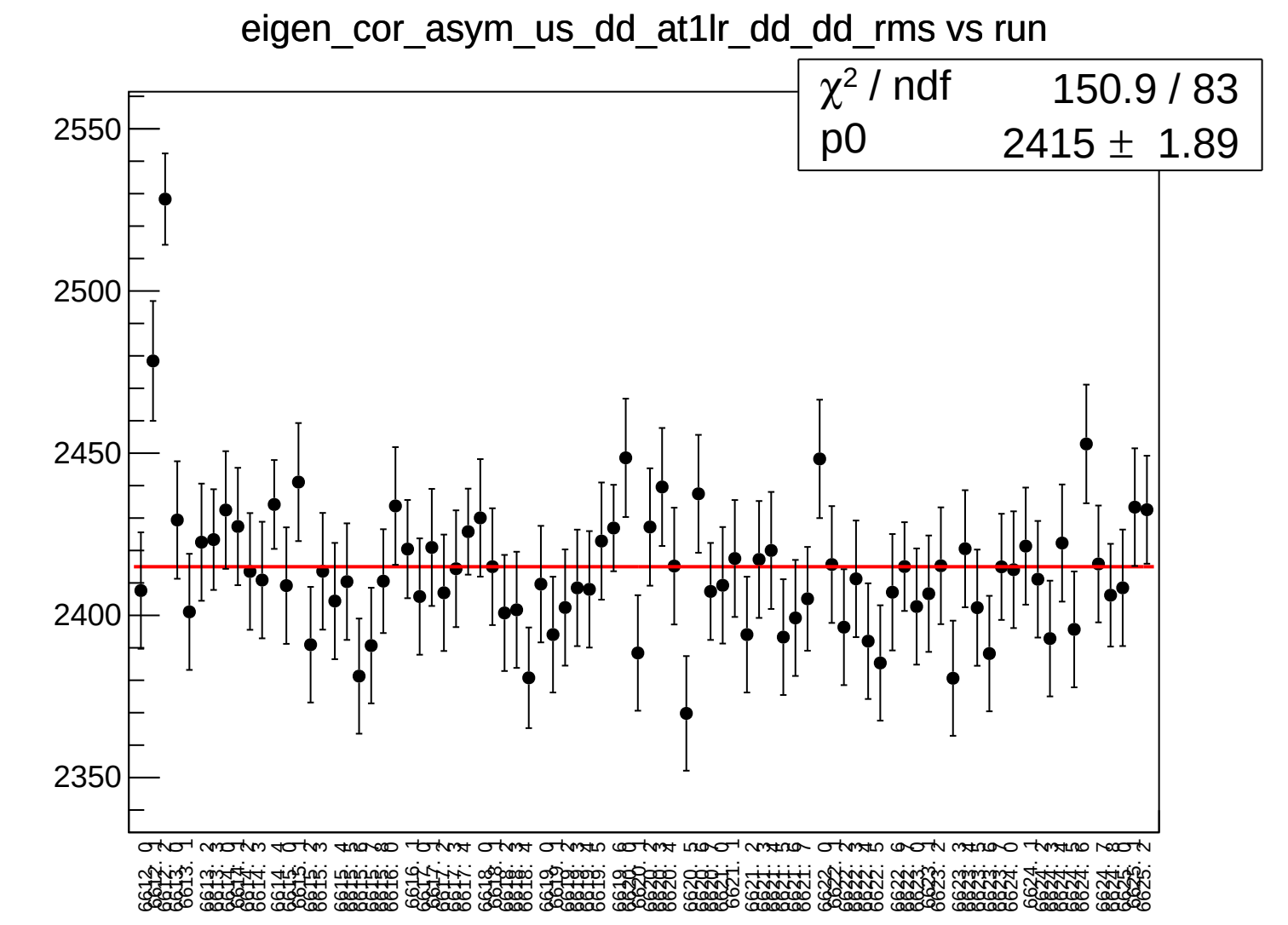

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 150.9 / 83
p0 2415 ± 1.89
2550
2500
2450
2400
2350

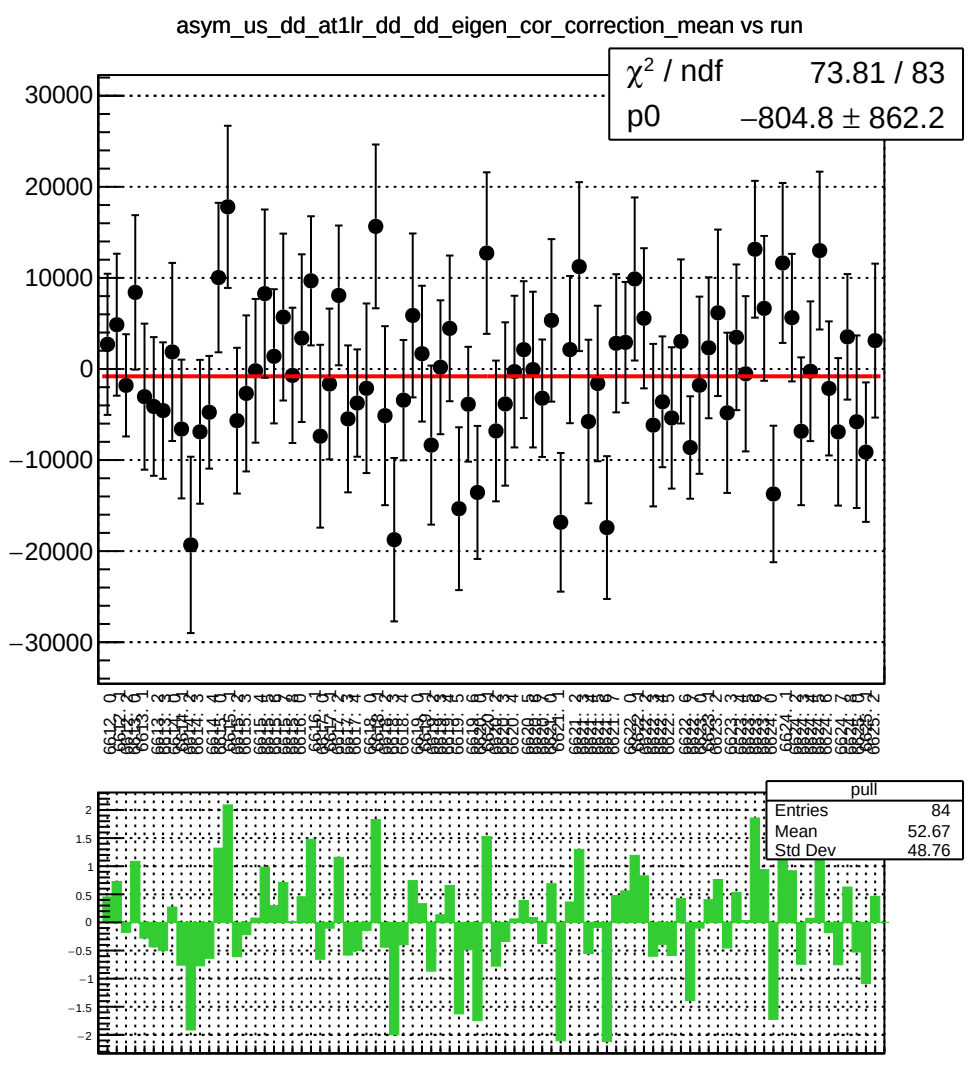

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 73.81 / 83
p0 −804.8 ± 862.2
pull
Entries 84
Mean 52.67
Std Dev 48.76

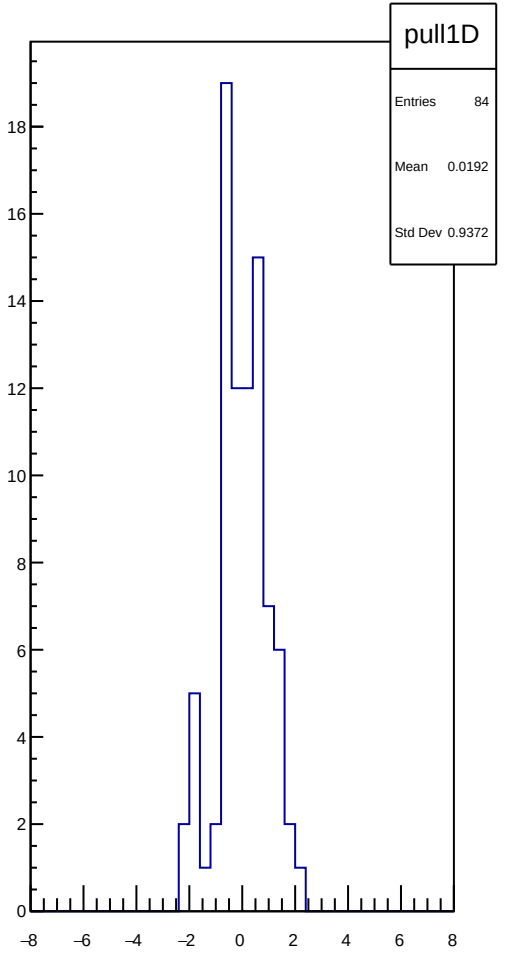

pull1D
Entries 84
Mean 0.0192
Std Dev 0.9372

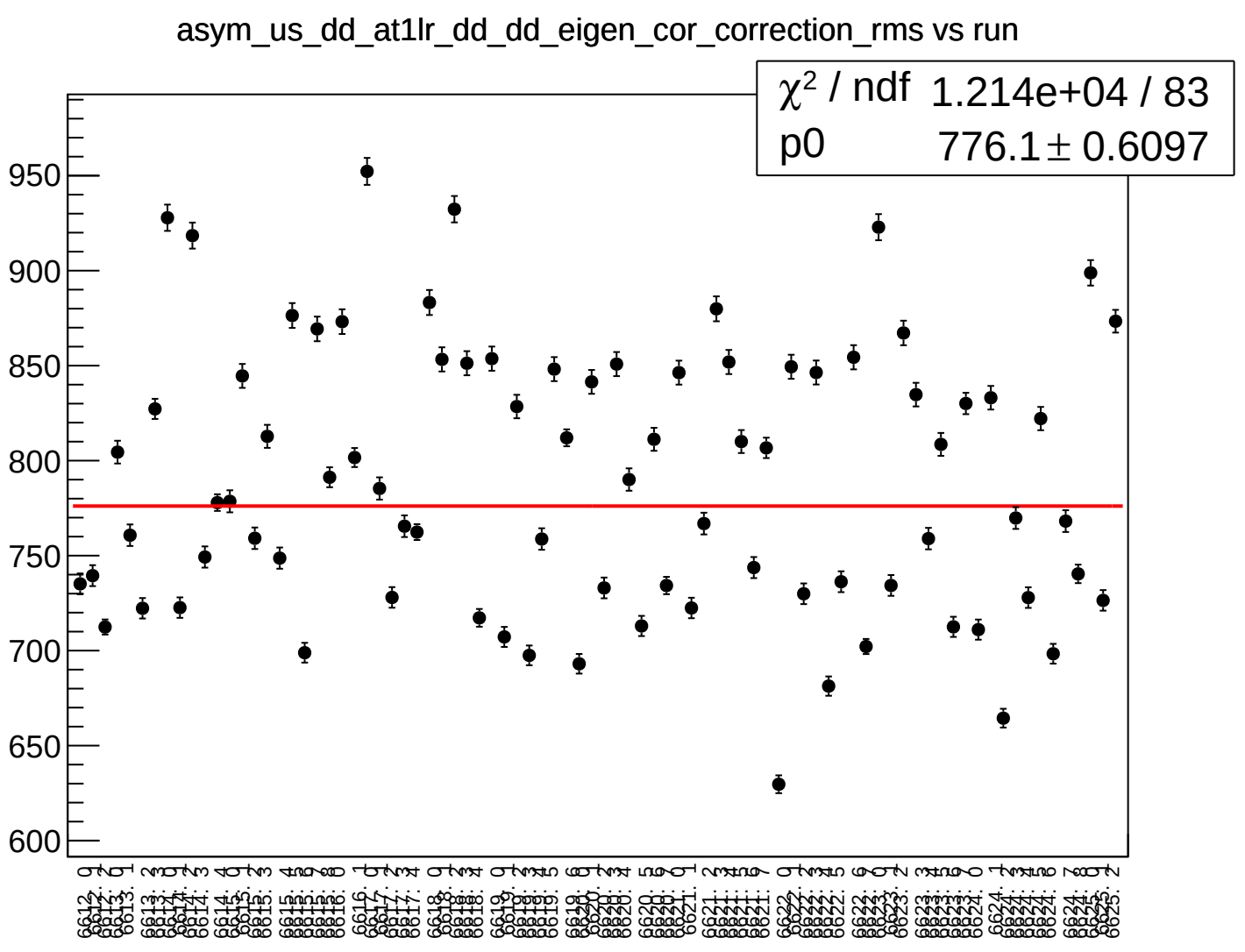

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.214e+04 / 83
p0 776.1 ± 0.6097
950
900
850
800
750
700
650
600

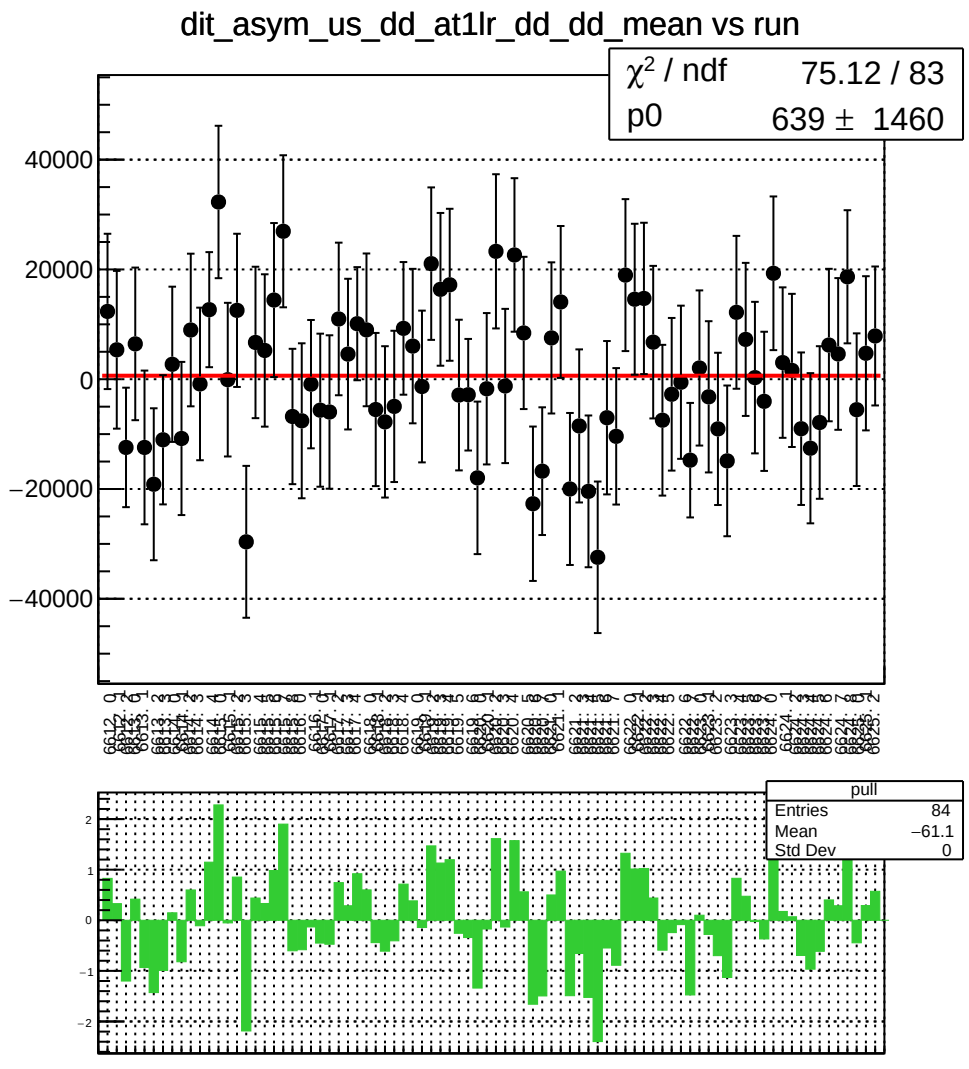

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 71.44 / 83
p0 −4562 ± 2673
pull
Entries 84
Mean −1353
Std Dev 0
pull1D
Entries 84
Mean −0.003618
Std Dev 0.9222

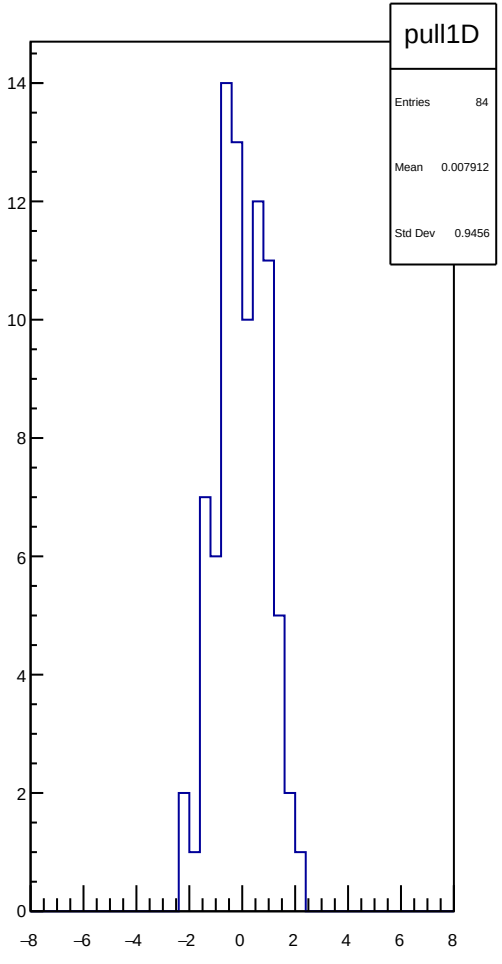

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 150.9 / 83
p0 2415 ± 1.89
2550
2500
2450
2400
2350

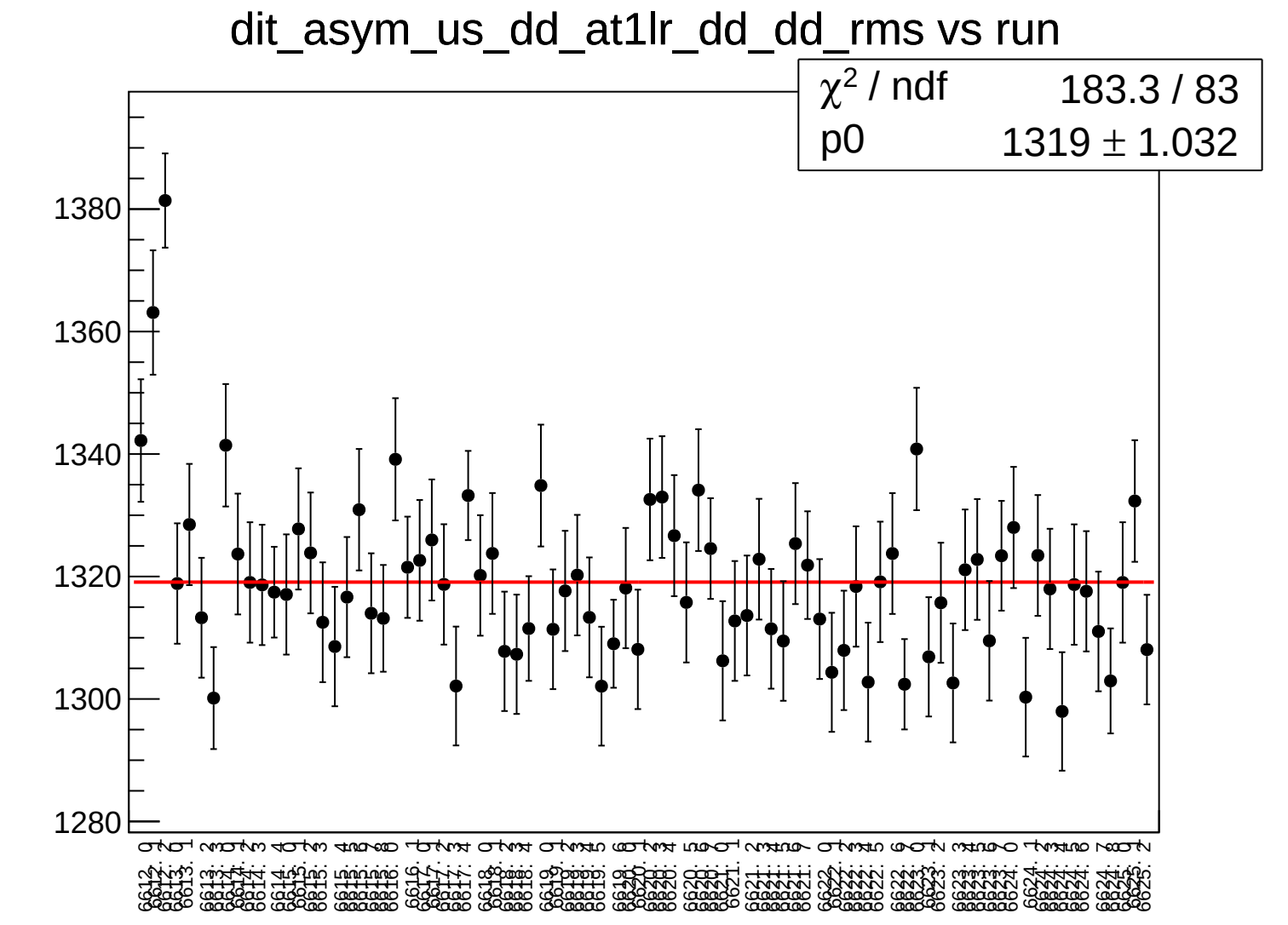

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.81 / 83
p0 −804.8 ± 862.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 52.67
Std Dev 48.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

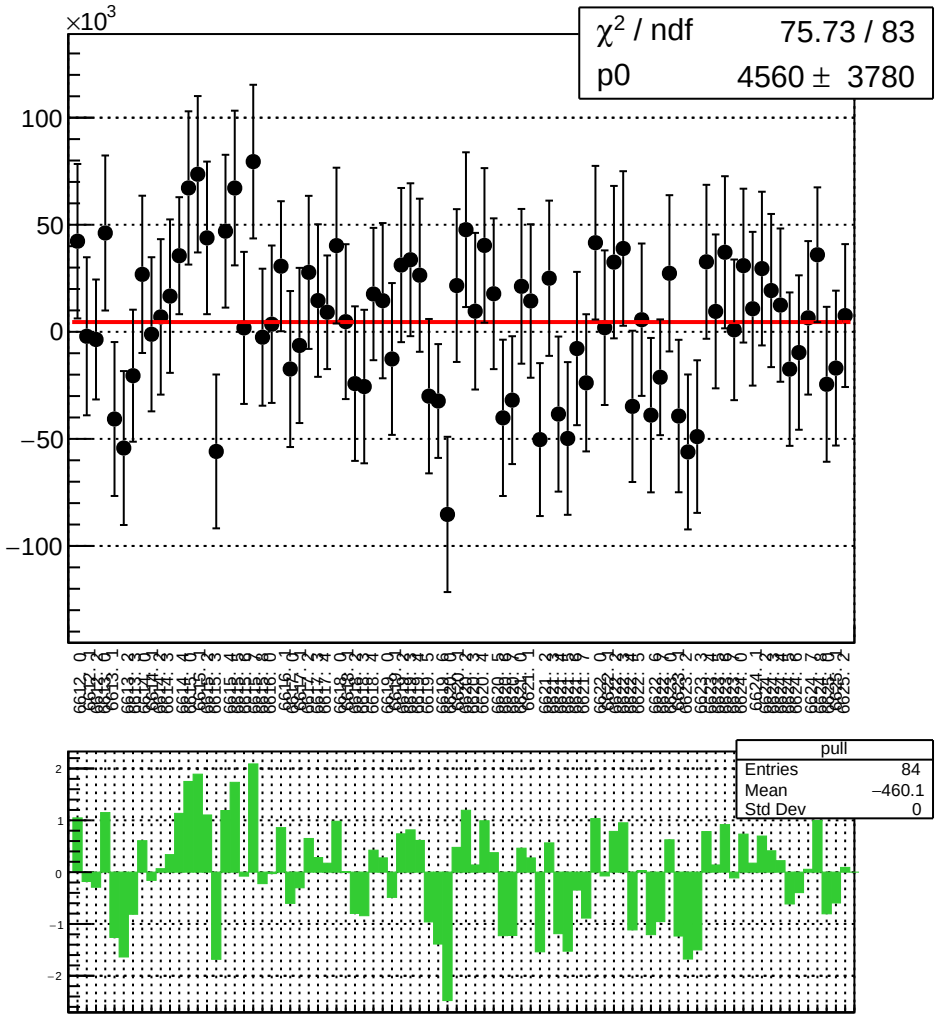

pull1D
Entries 84
Mean 0.0192
Std Dev 0.9372
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

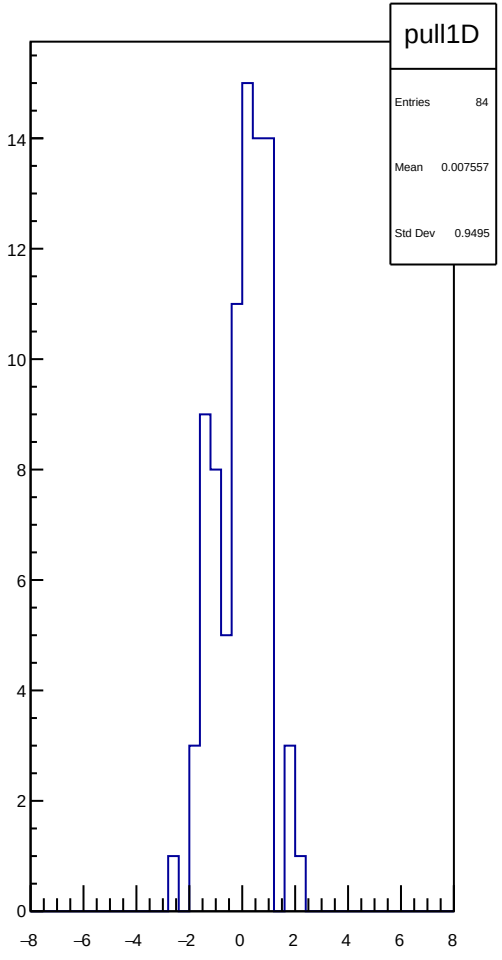

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.214e+04 / 83
p0 776.1 ± 0.6097
950
900
850
800
750
700
650
600

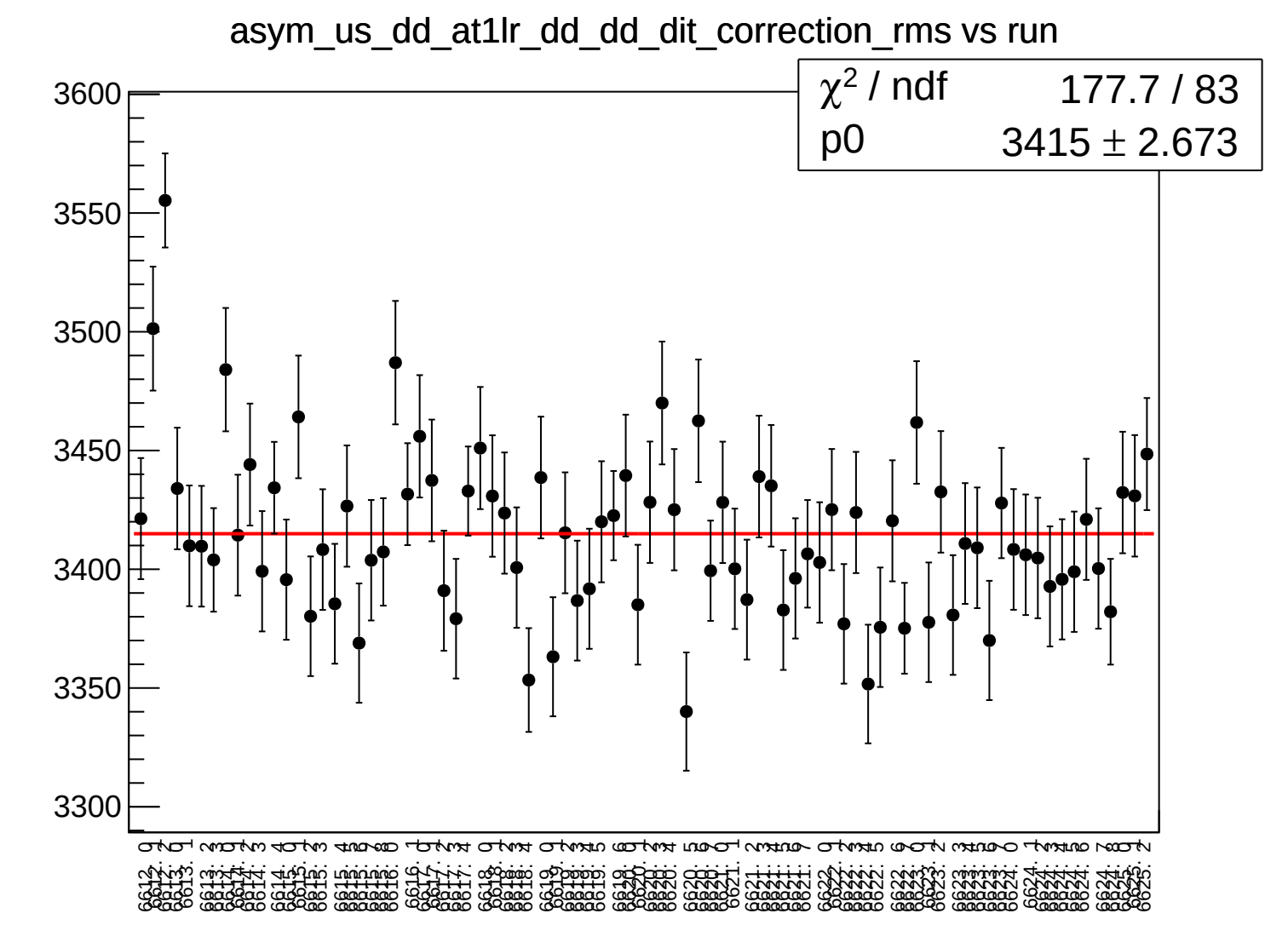

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 75.12 / 83
p0 639 ± 1460
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −61.1
Std Dev 0
2
1
0
−1
−2

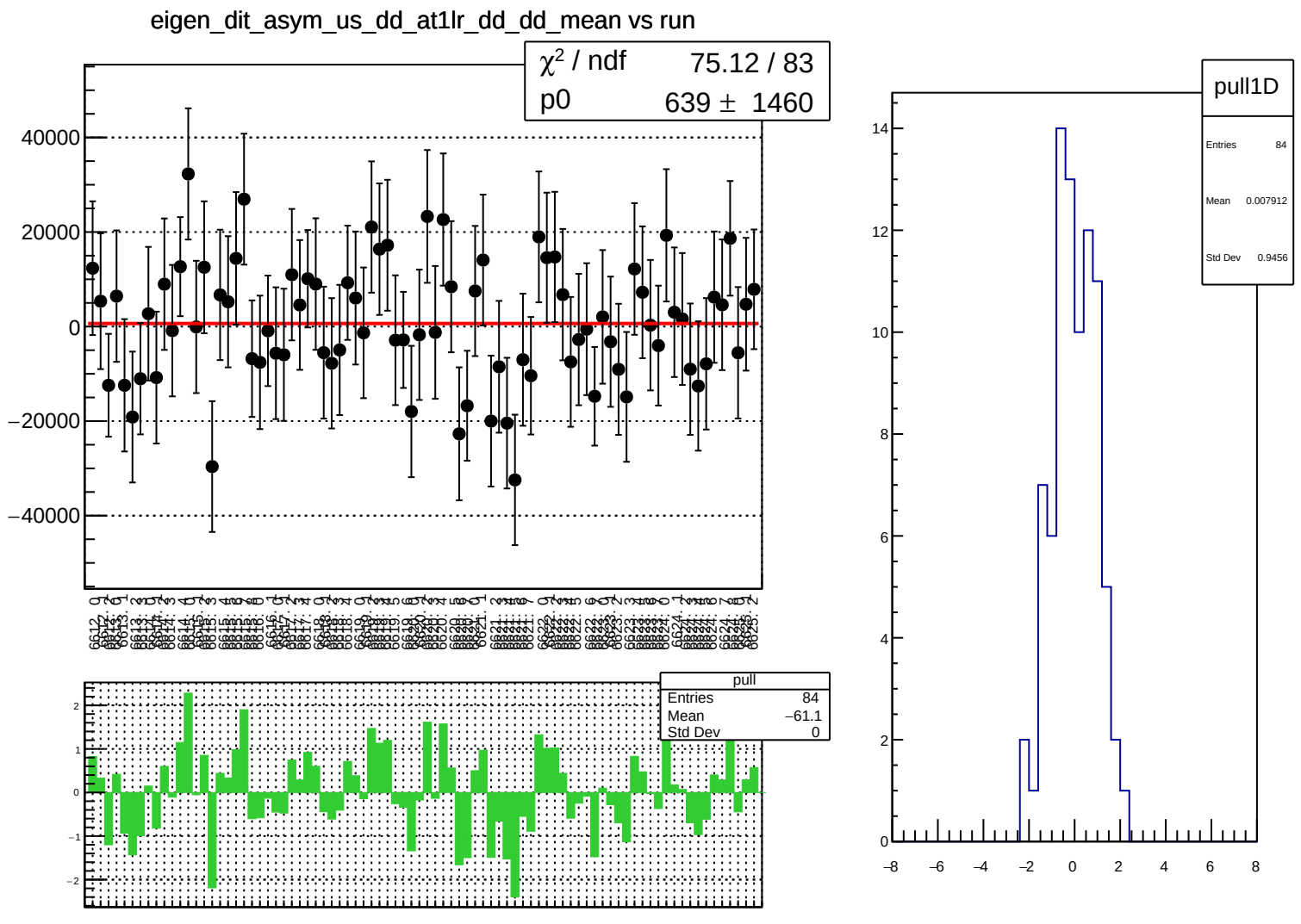

pull1D
Entries 84
Mean 0.007912
Std Dev 0.9456
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

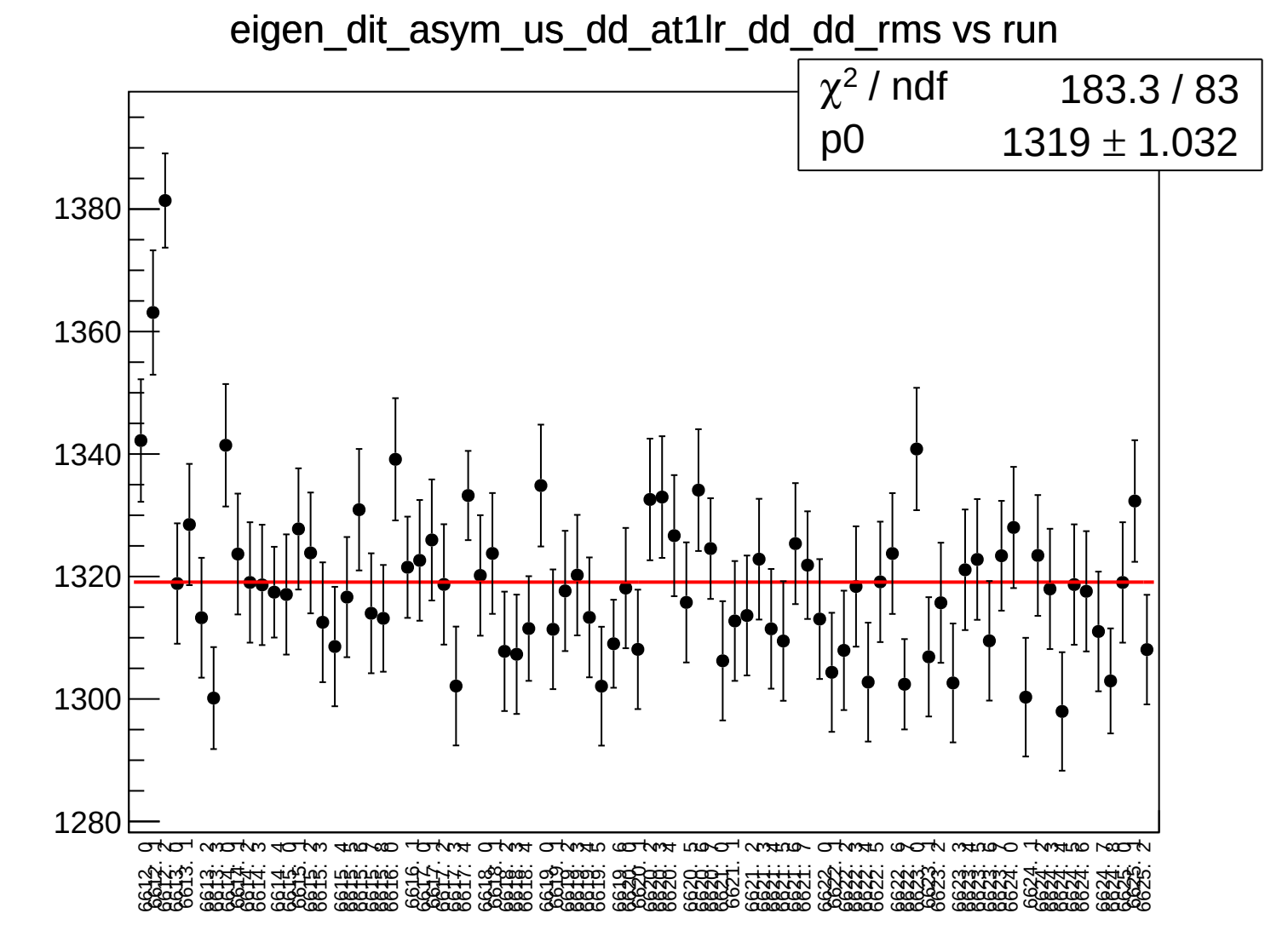

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 183.3 / 83
p0 1319 ± 1.032
1380
1360
1340
1320
1300
1280

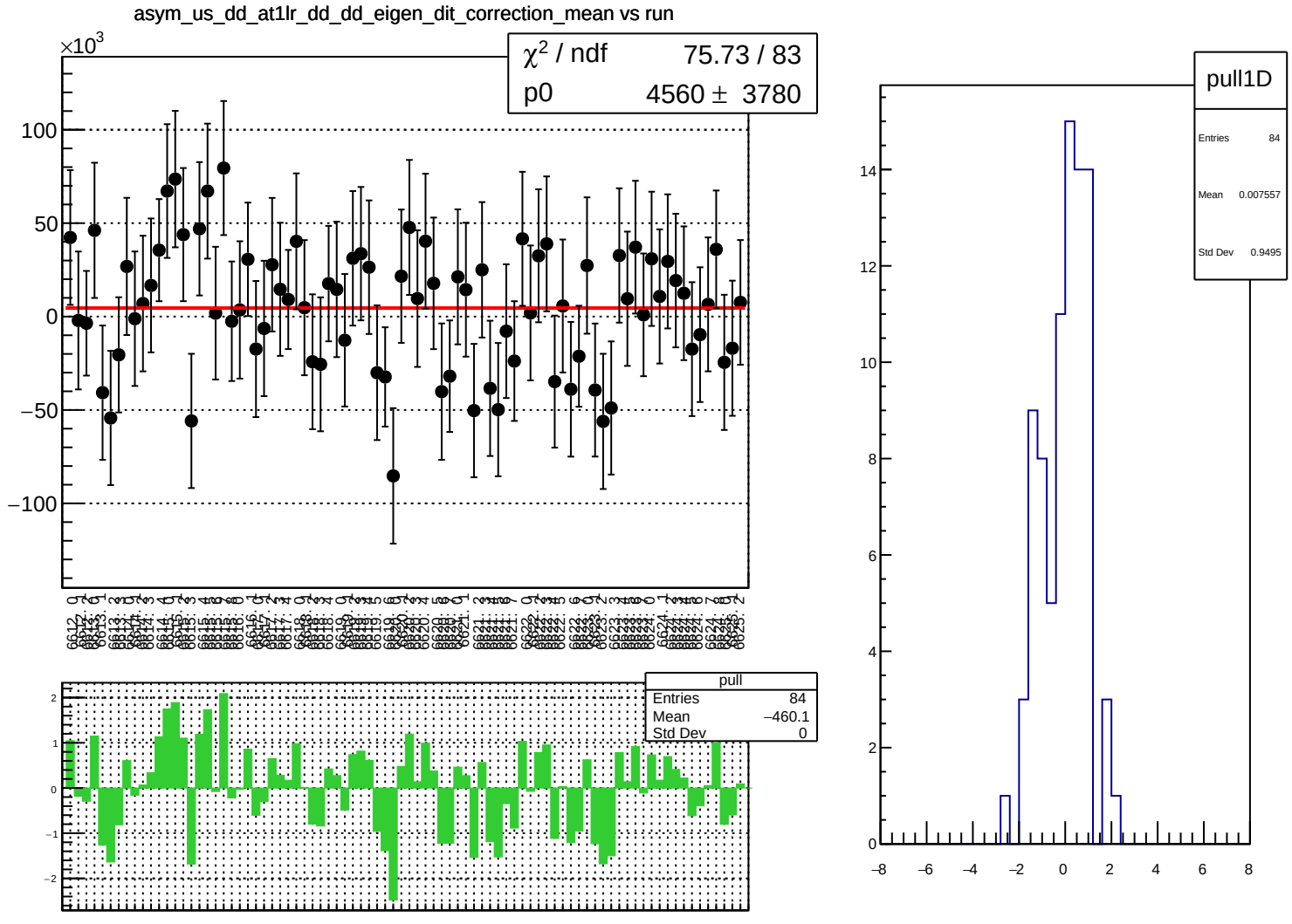

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 75.73 / 83
p0 4560 ± 3780
100
50
0
−50
−100
pull
Entries 84
Mean −460.1
Std Dev 0
2
1
0
−1
−2

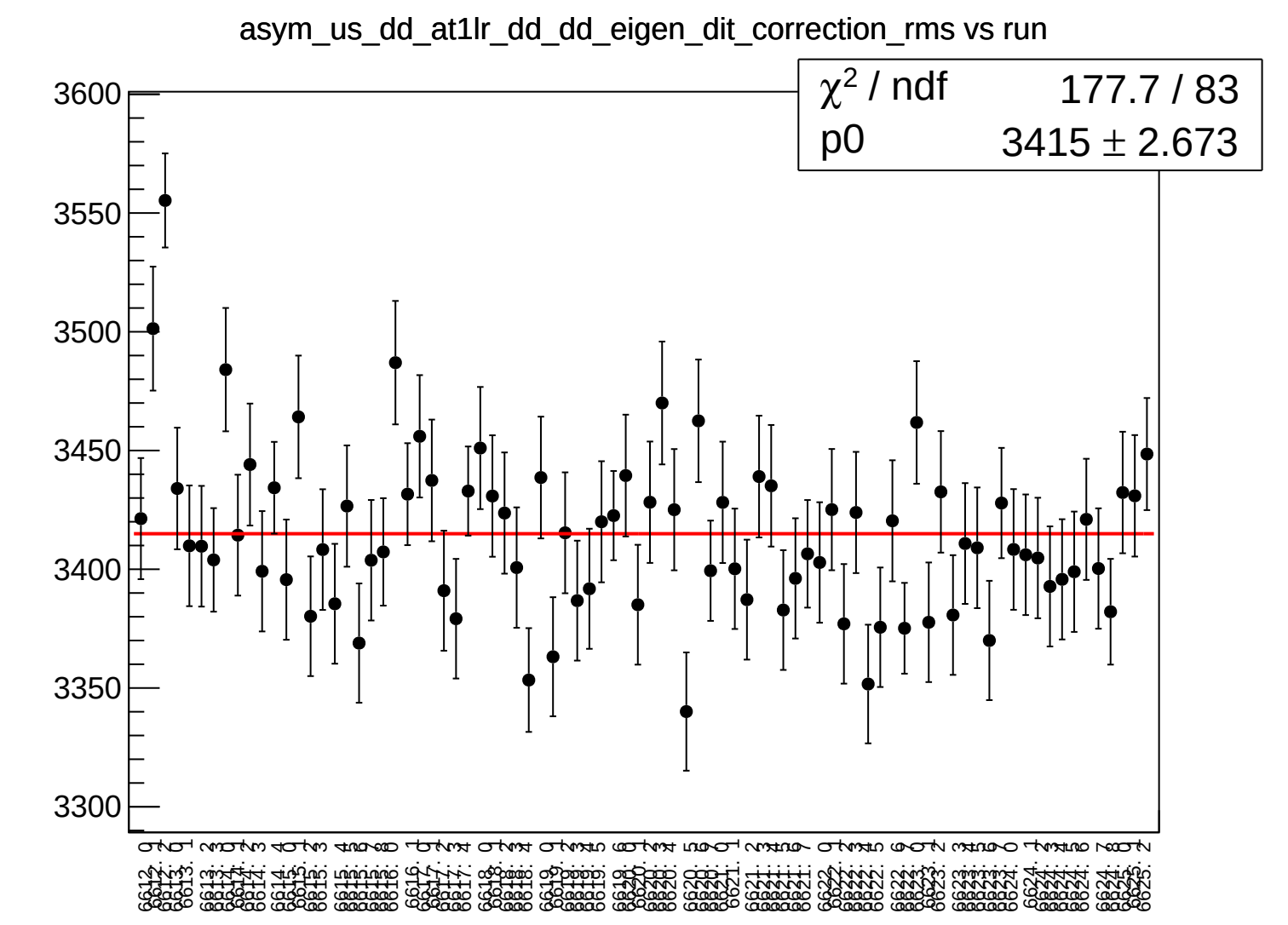

pull1D
Entries 84
Mean 0.007557
Std Dev 0.9495
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

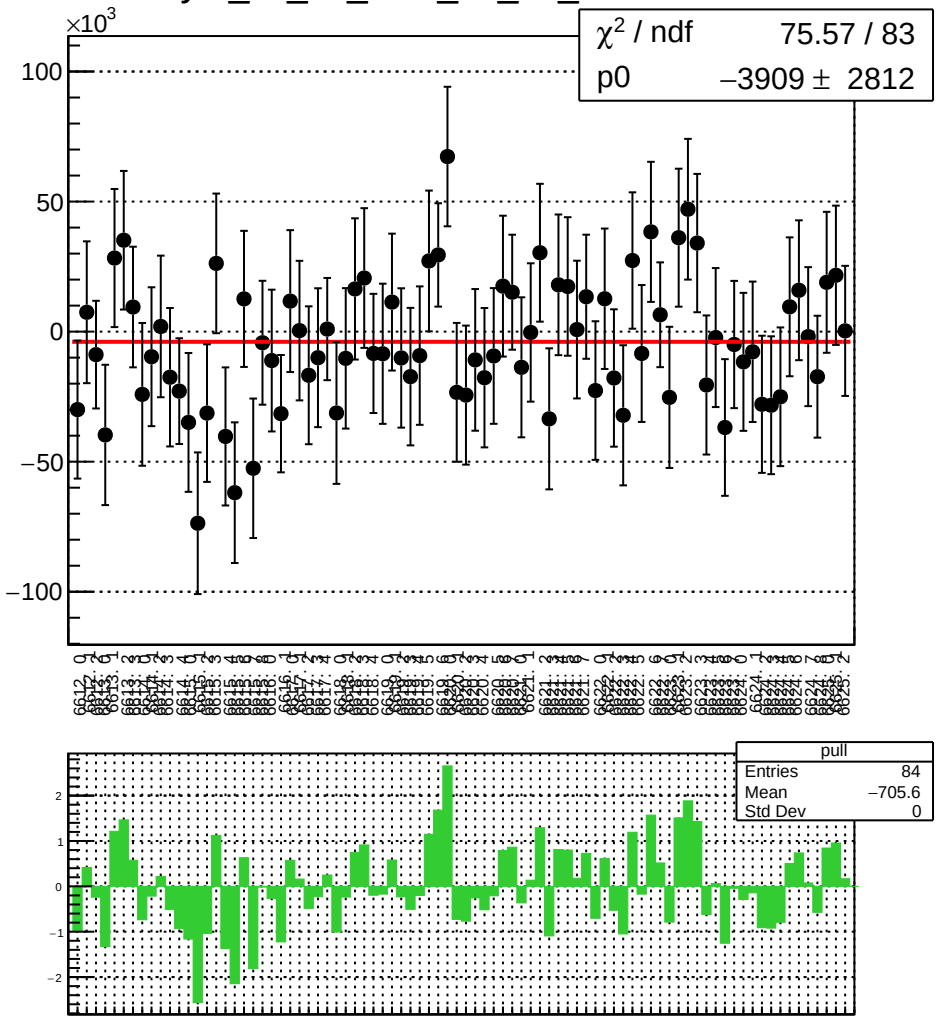

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 177.7 / 83
p0 3415 ± 2.673
3600
3550
3500
3450
3400
3350
3300

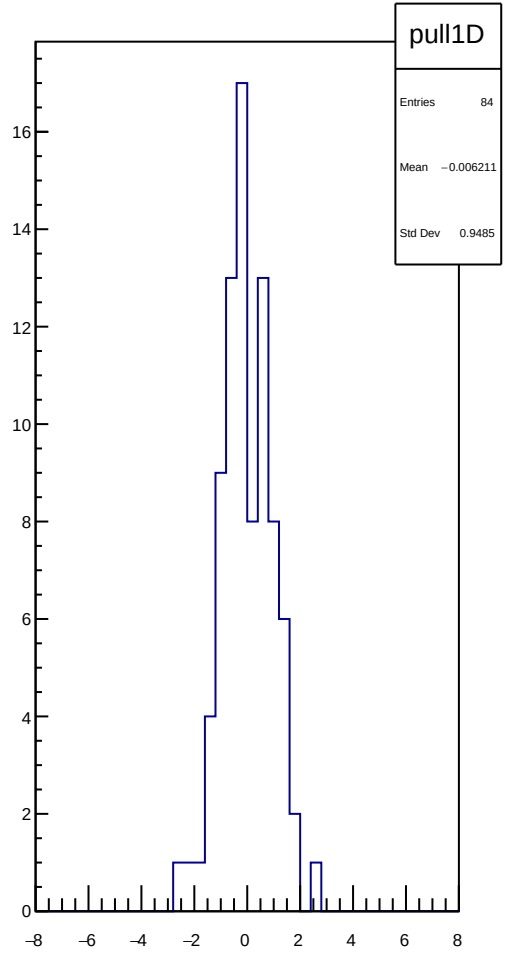

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 75.12 / 83
p0 639 ± 1460
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −61.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.007912
Std Dev 0.9456
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

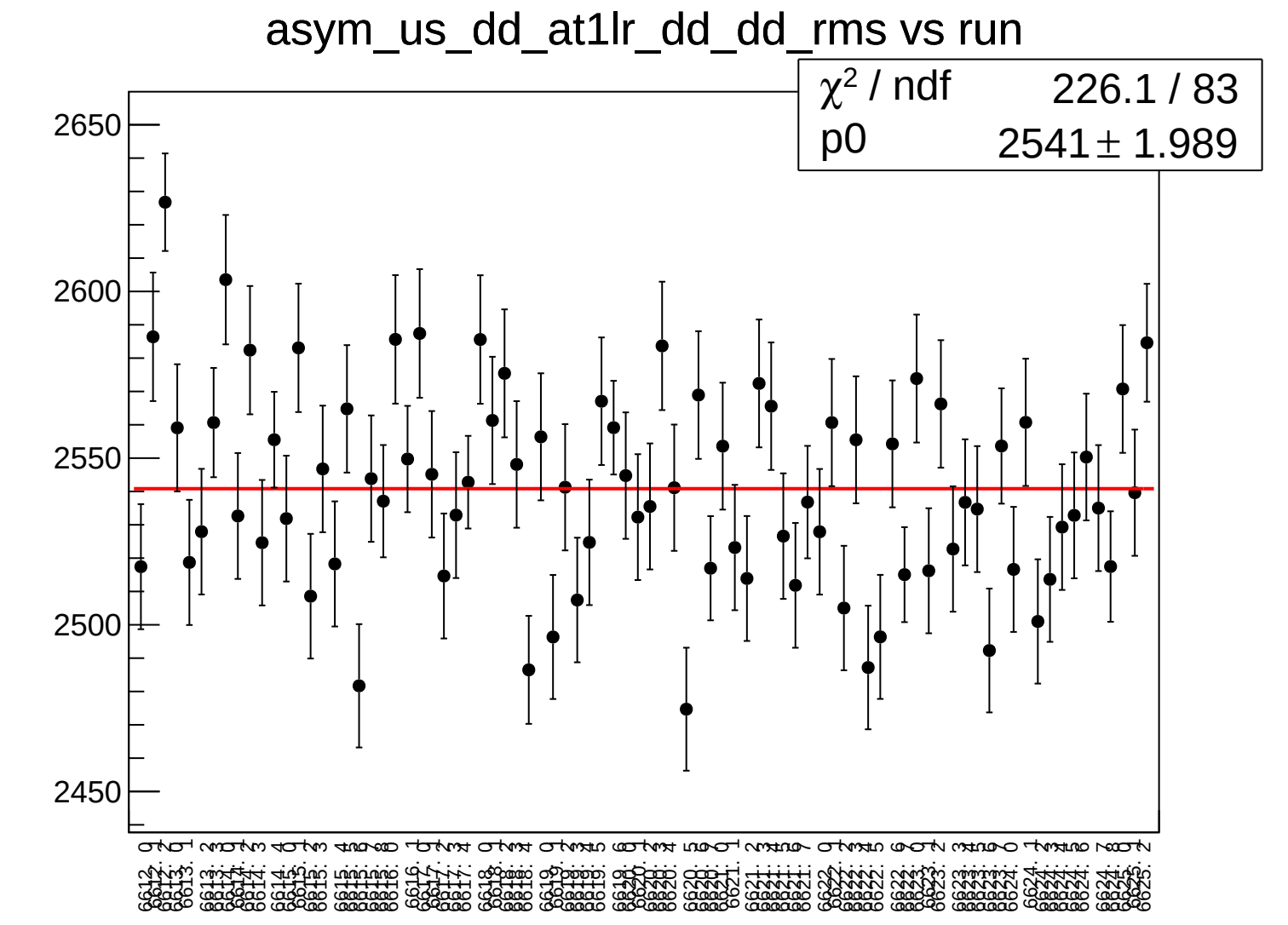

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 183.3 / 83
p0 1319 ± 1.032
1380
1360
1340
1320
1300
1280

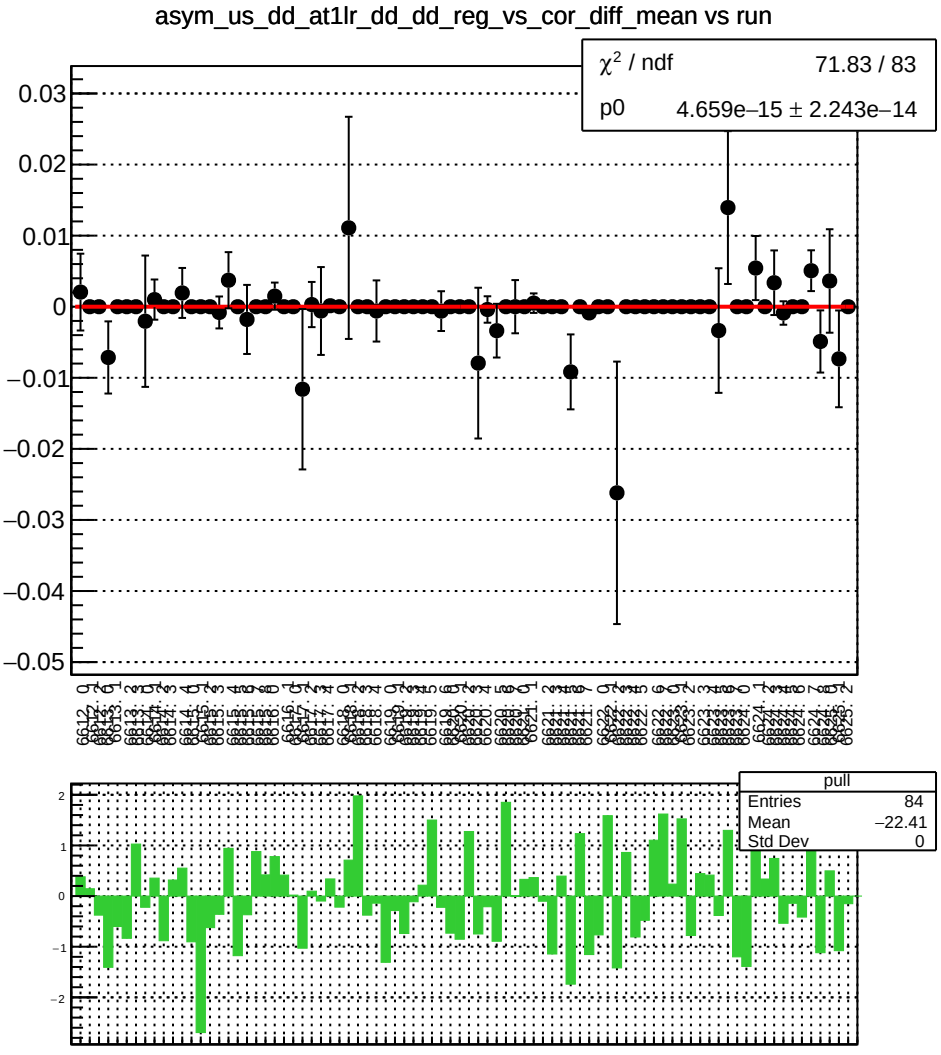

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 75.73 / 83
p0 4560 ± 3780
100
50
0
−50
−100
pull
Entries 84
Mean −460.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.007557
Std Dev 0.9495
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

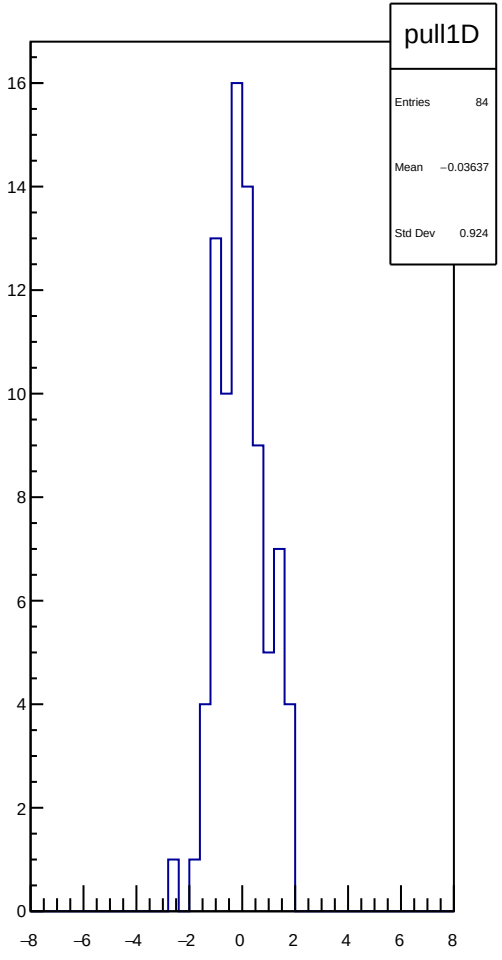

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 177.7 / 83
p0 3415 ± 2.673
3600
3550
3500
3450
3400
3350
3300

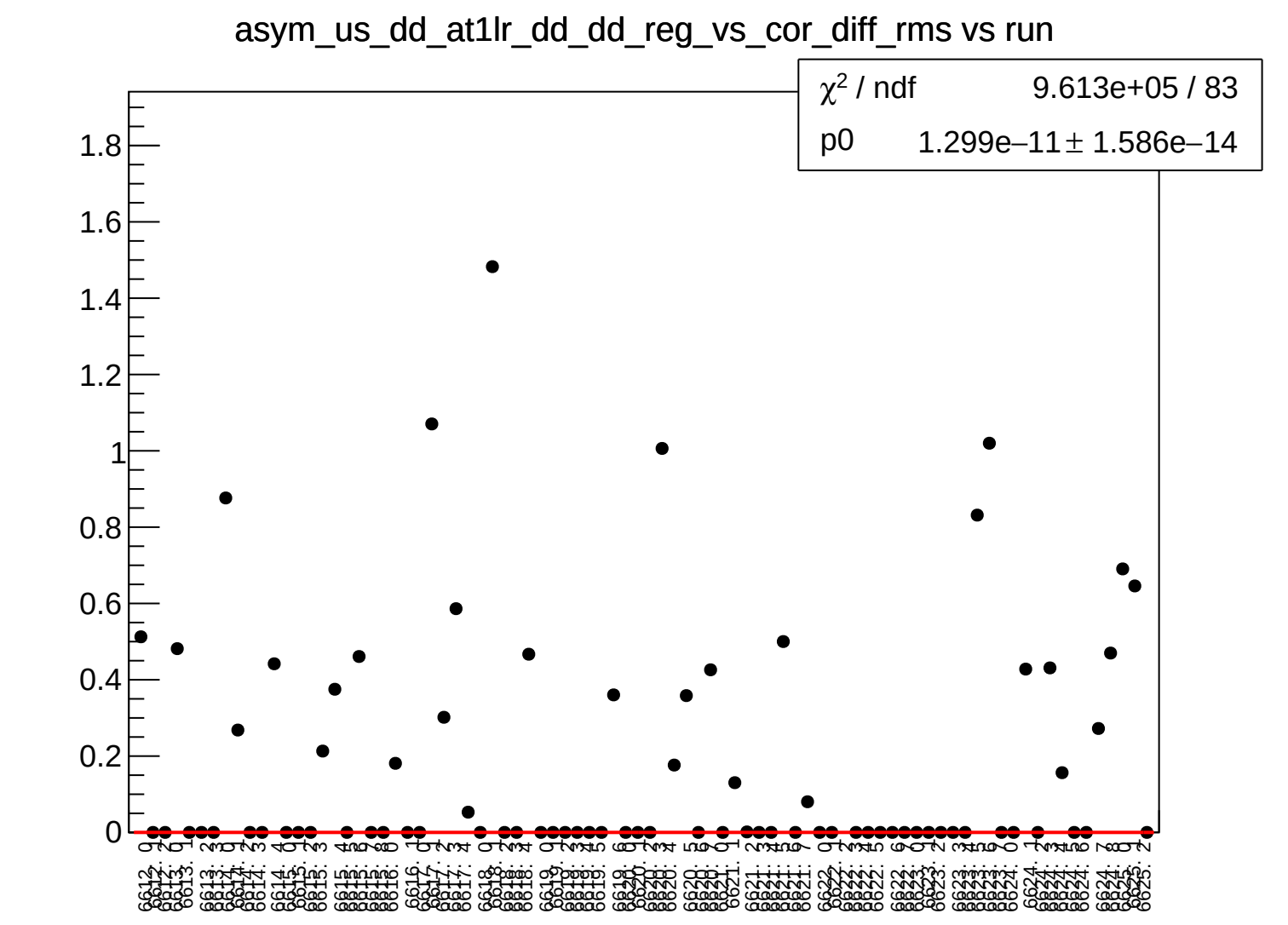

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 75.57 / 83
p0 −3909 ± 2812
100
50
0
−50
−100
pull
Entries 84
Mean −705.6
Std Dev 0
2
1
0
−1
−2

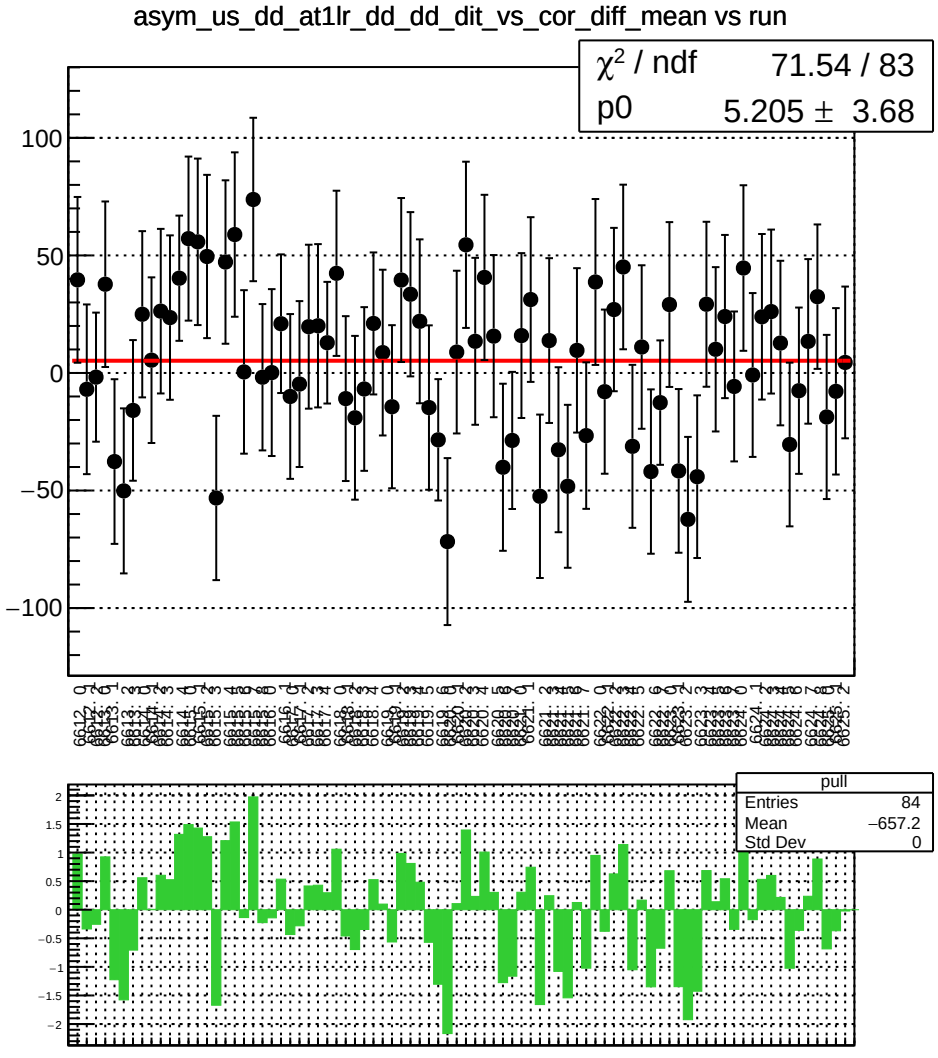

pull1D
Entries 84
Mean −0.006211
Std Dev 0.9485
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

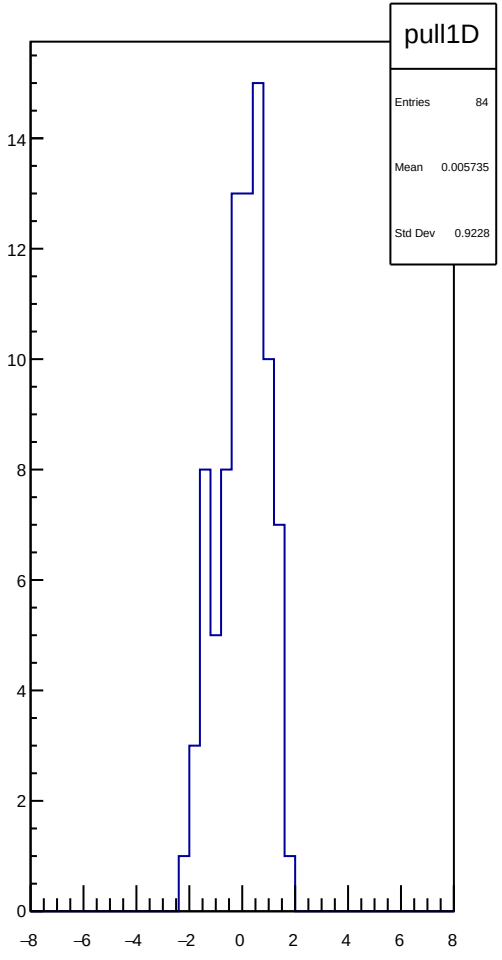

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 226.1 / 83
p0 2541 ± 1.989
2650
2600
2550
2500
2450

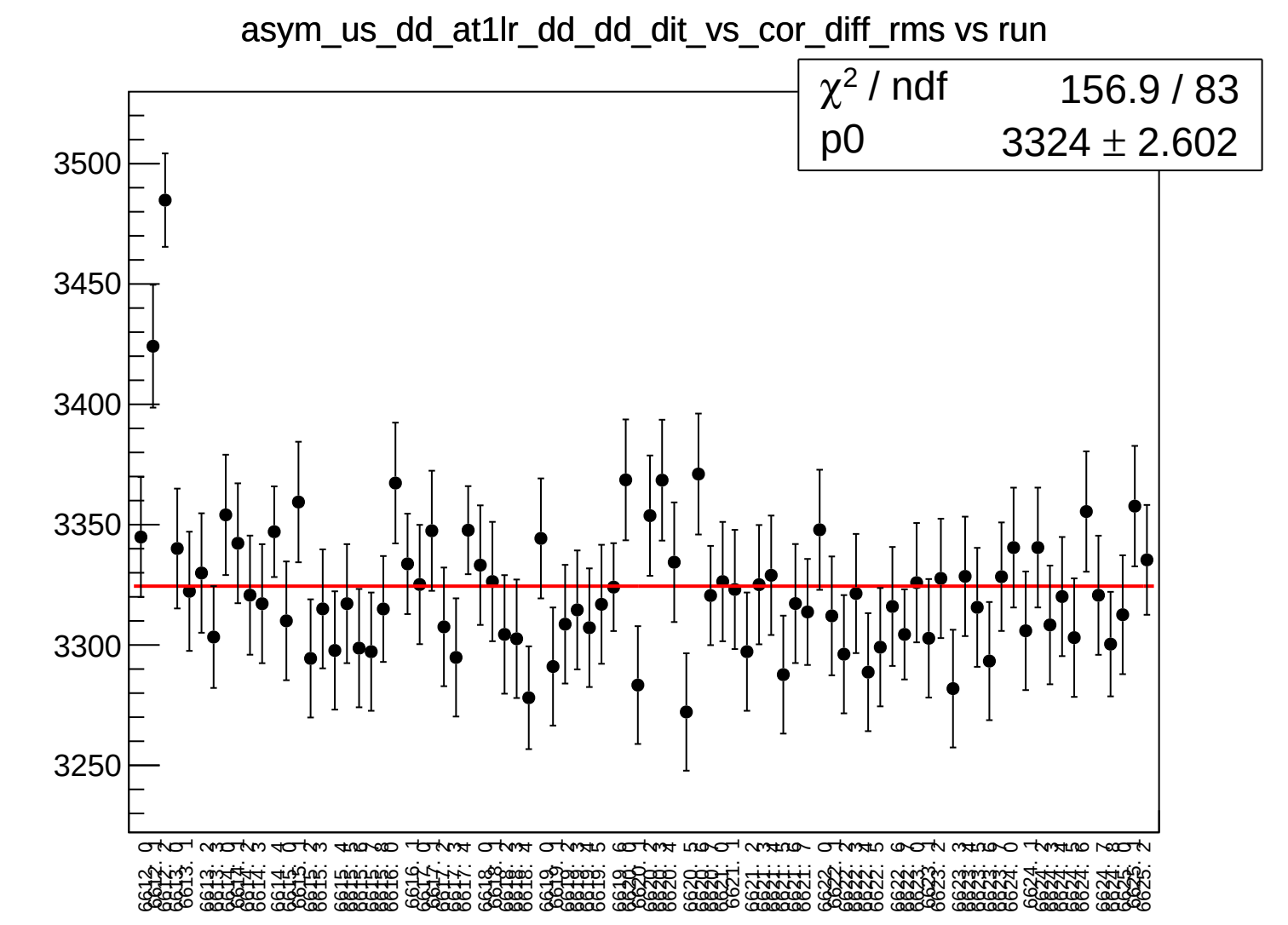

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 71.83 / 83
p0 4.659e−15 ± 2.243e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
pull
Entries 84
Mean −22.41
Std Dev 0
2
1
0
−1
−2

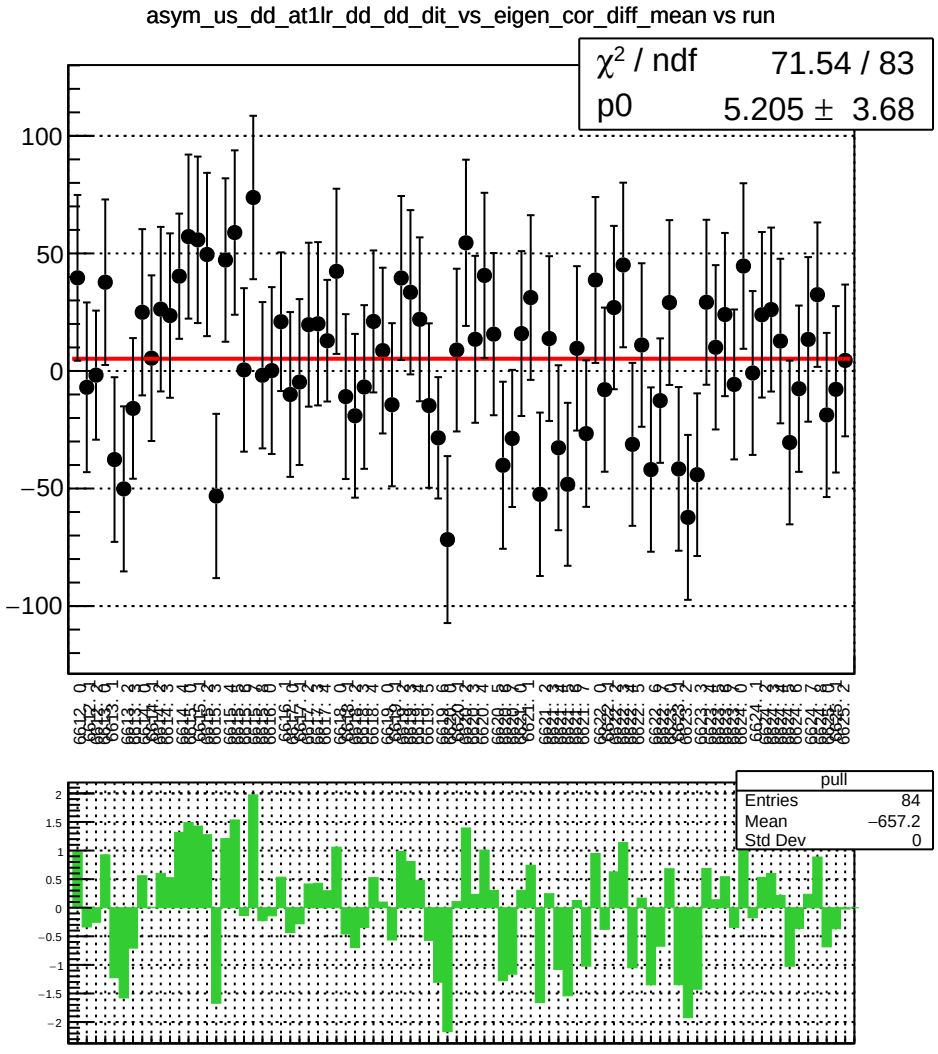

pull1D
Entries 84
Mean −0.03637
Std Dev 0.924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

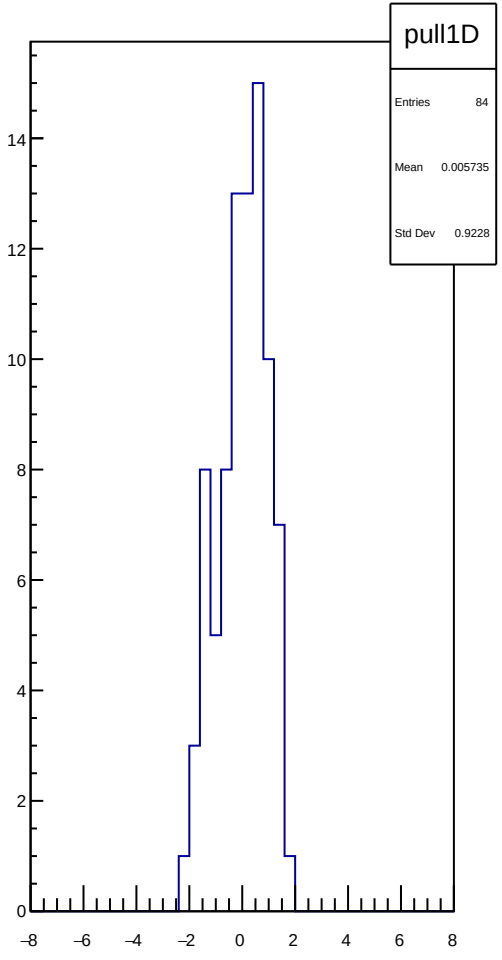

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.613e+05 / 83
p0 1.299e−11 ± 1.586e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

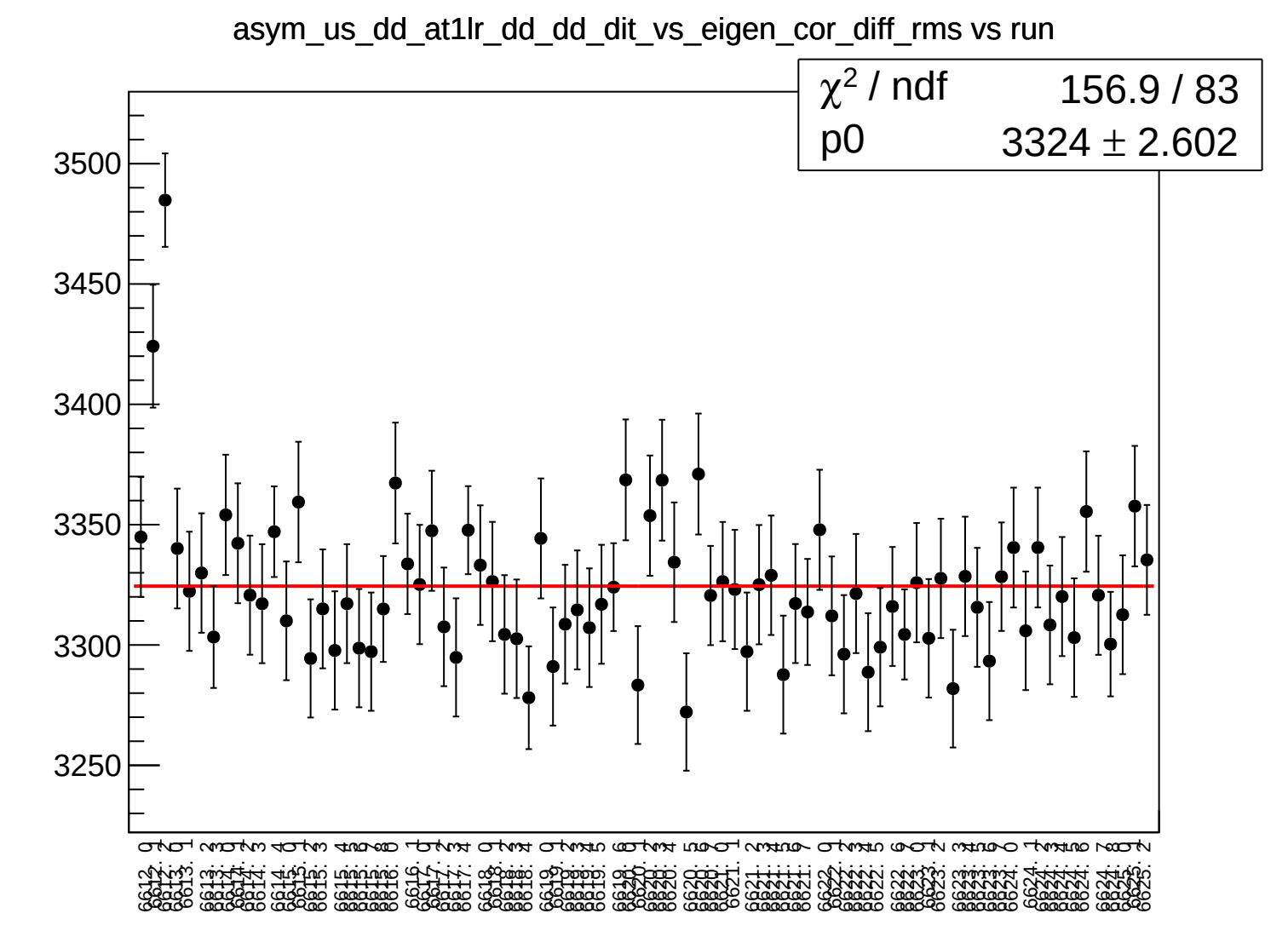

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.54 / 83
p0 5.205 ± 3.68
pull
Entries 84
Mean −657.2
Std Dev 0

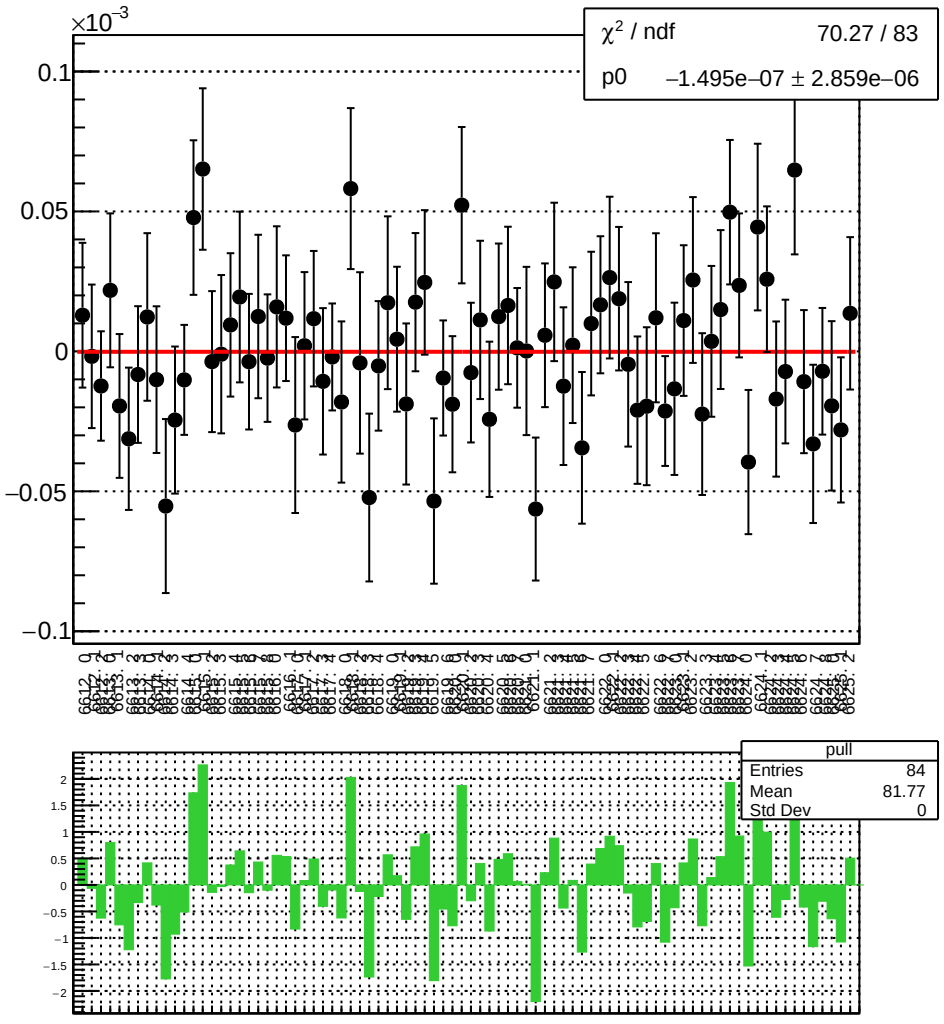

pull1D
Entries 84
Mean 0.005735
Std Dev 0.9228

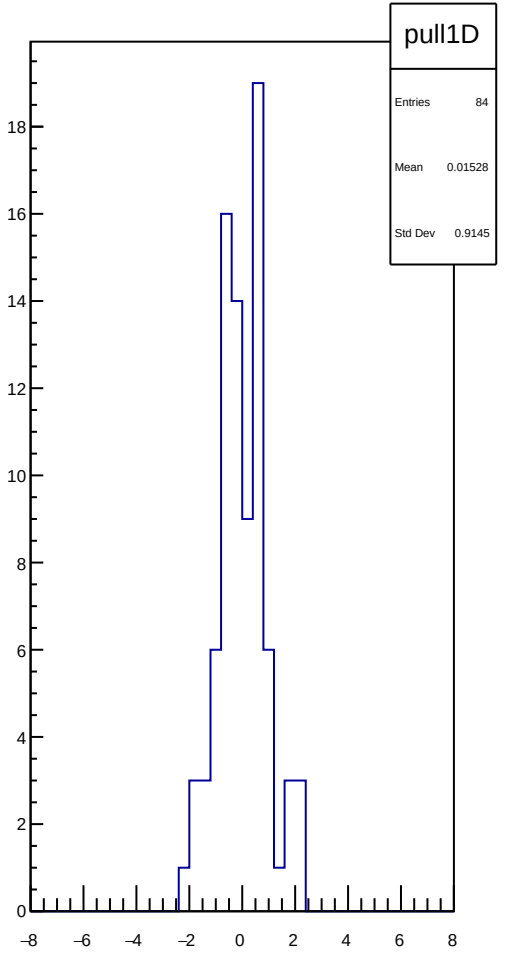

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 156.9 / 83
p0 3324 ± 2.602
3500
3450
3400
3350
3300
3250

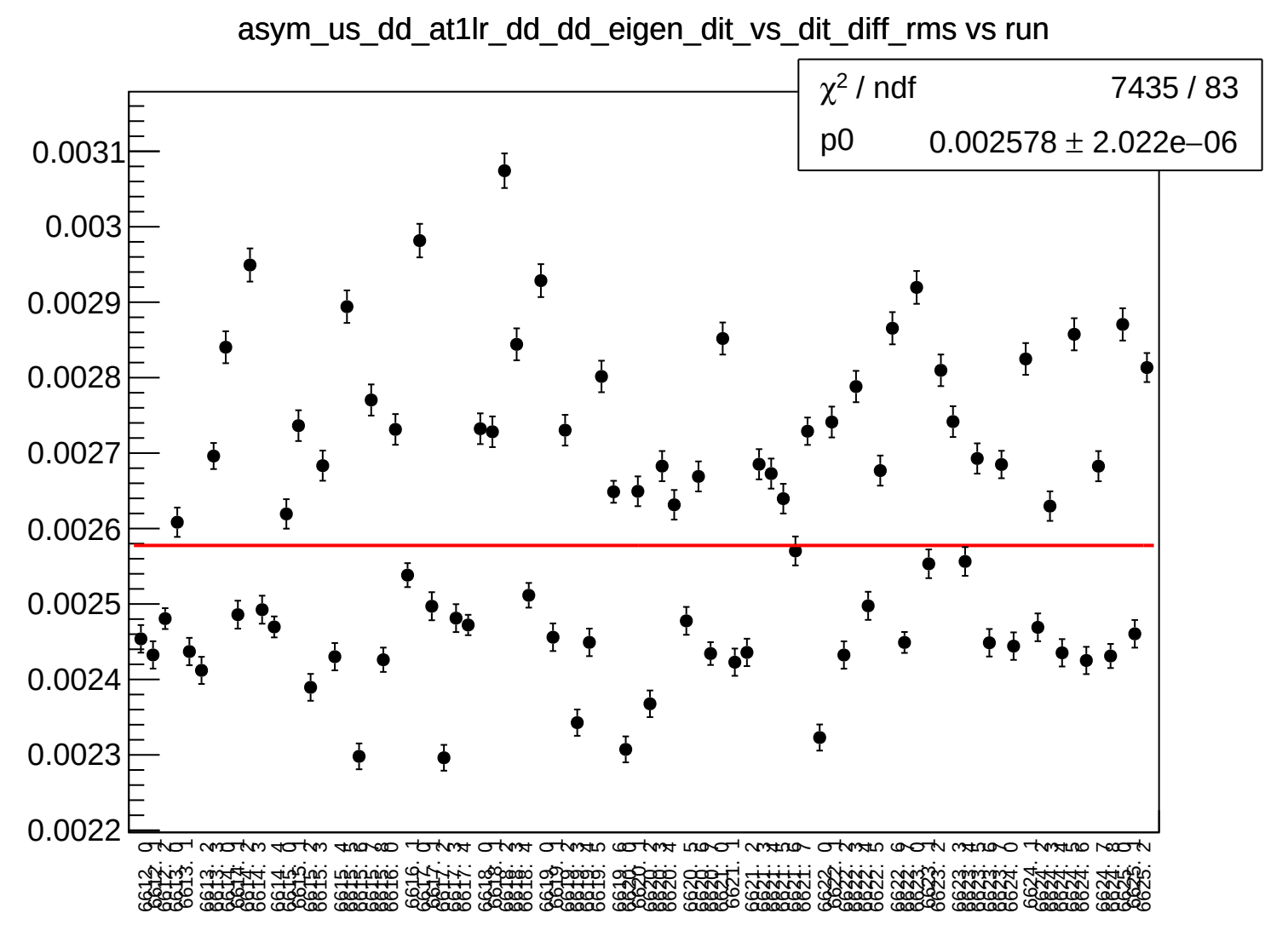

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.54 / 83
p0 5.205 ± 3.68
pull
Entries 84
Mean −657.2
Std Dev 0

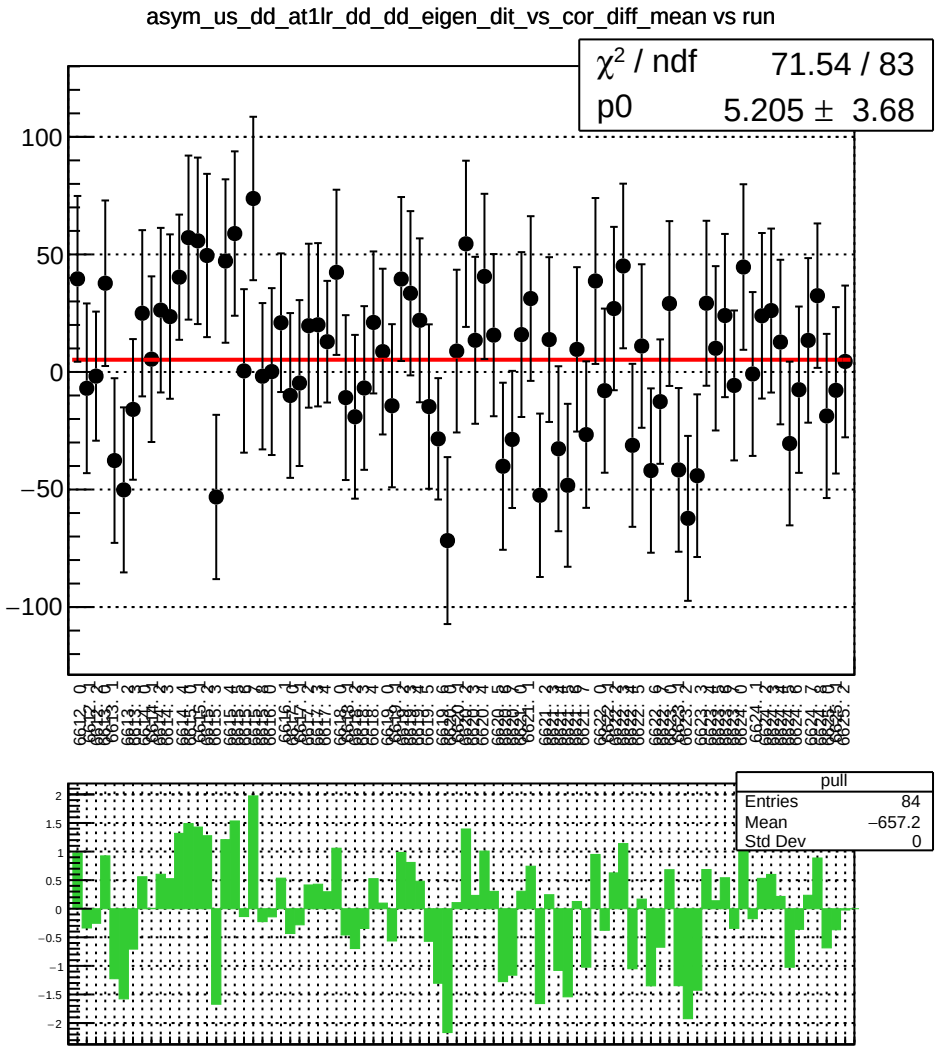

pull1D
Entries 84
Mean 0.005735
Std Dev 0.9228

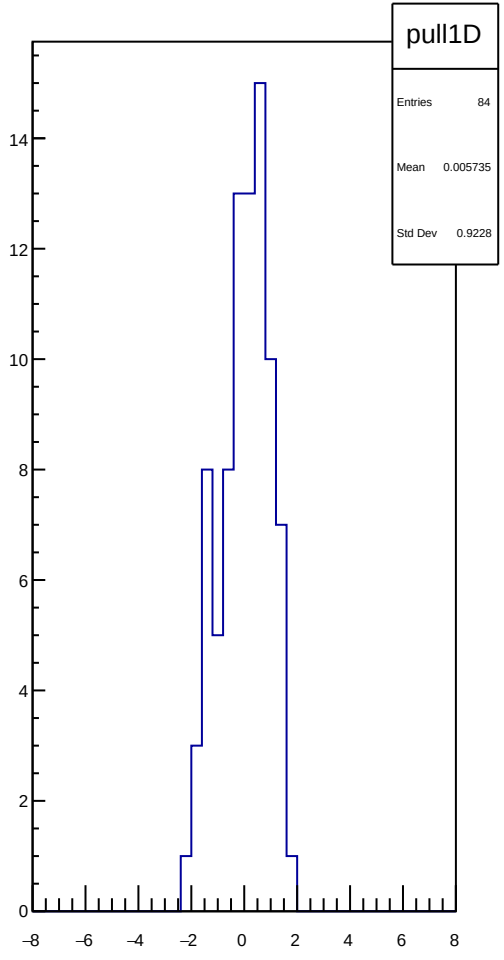

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 156.9 / 83
p0 3324 ± 2.602
3500
3450
3400
3350
3300
3250

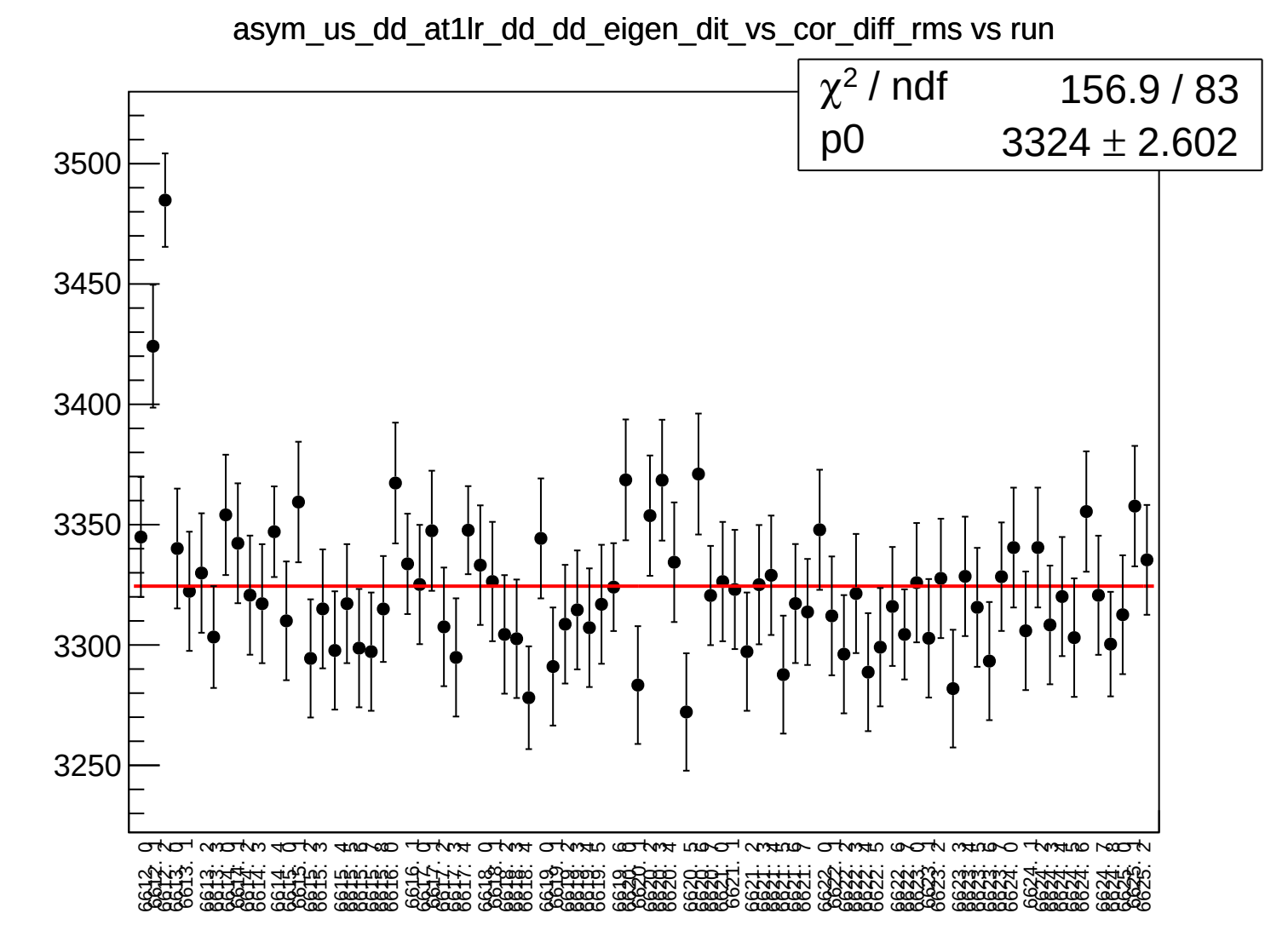

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.27 / 83
p0 −1.495e−07 ± 2.859e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean 81.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

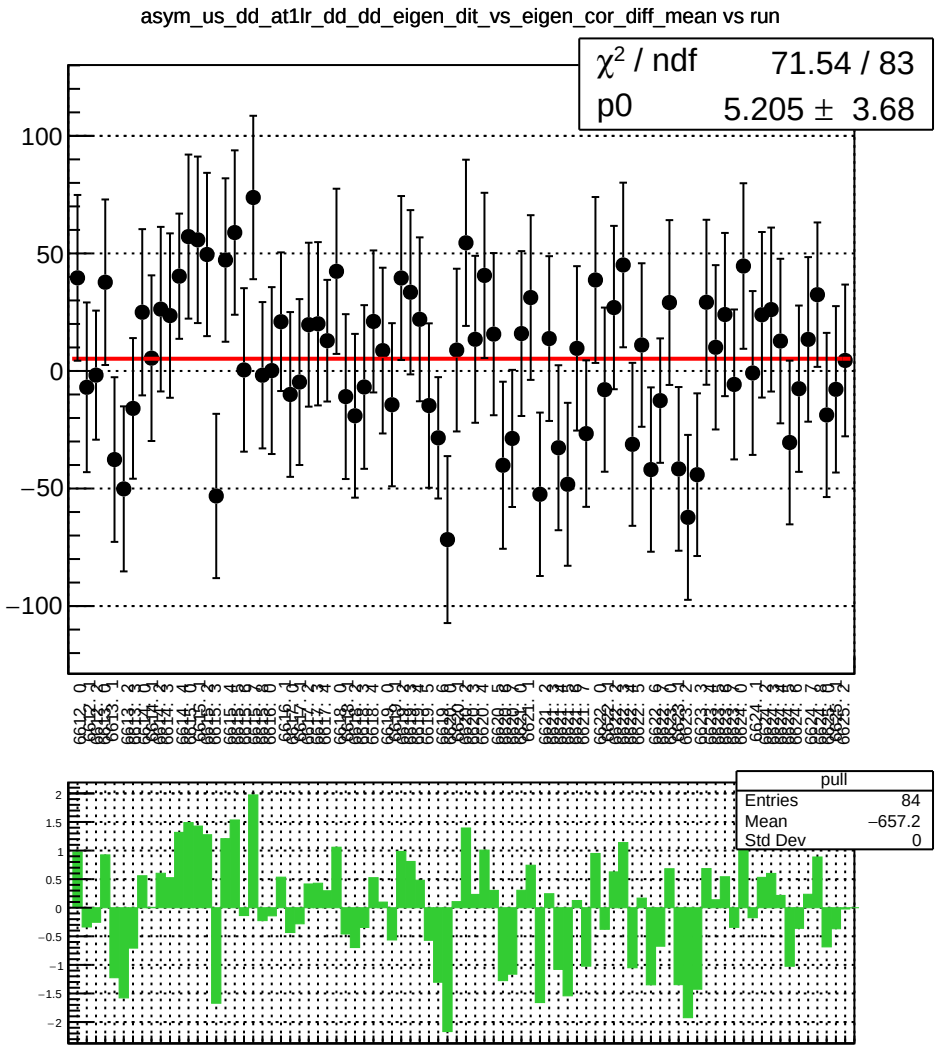

pull1D
Entries 84
Mean 0.01528
Std Dev 0.9145
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

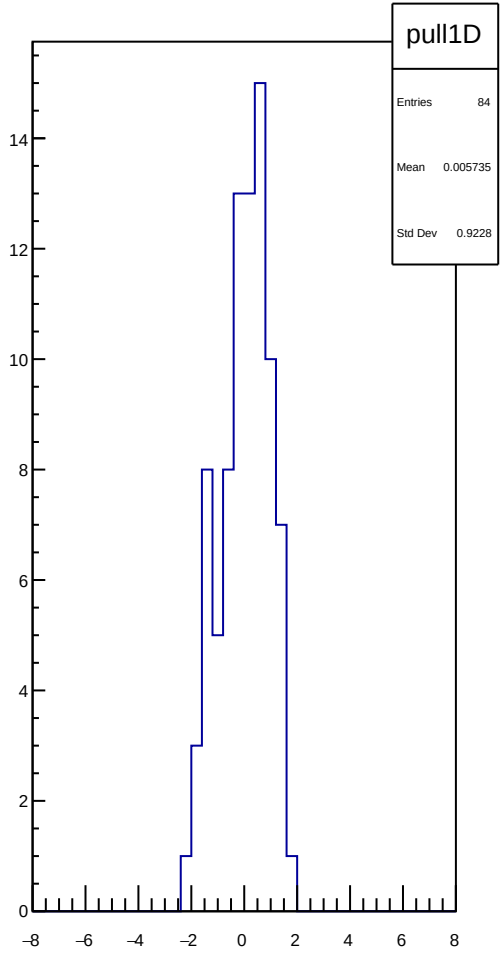

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7435 / 83
p0 0.002578 ± 2.022e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022

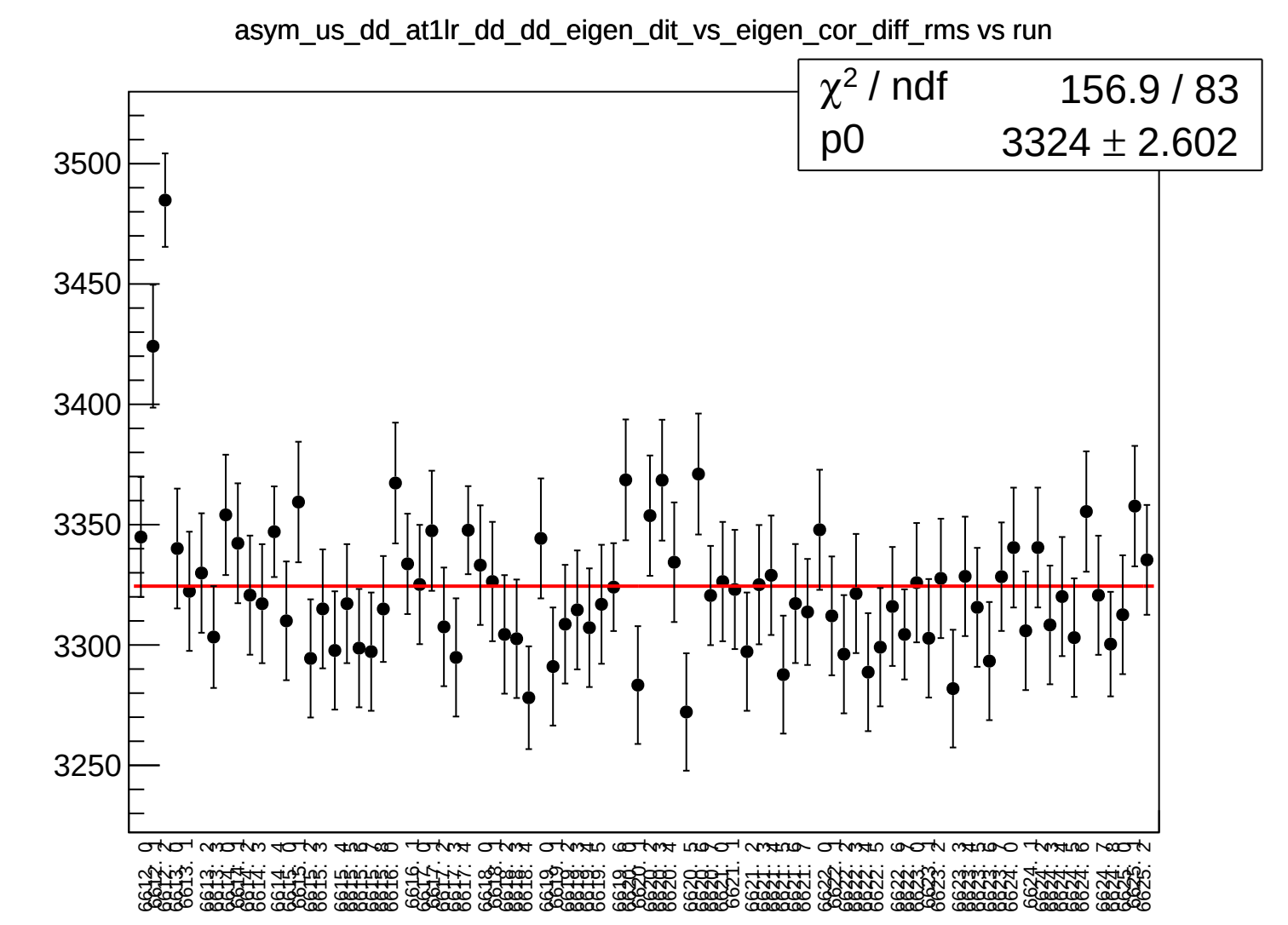

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.54 / 83
p0 5.205 ± 3.68
pull
Entries 84
Mean −657.2
Std Dev 0

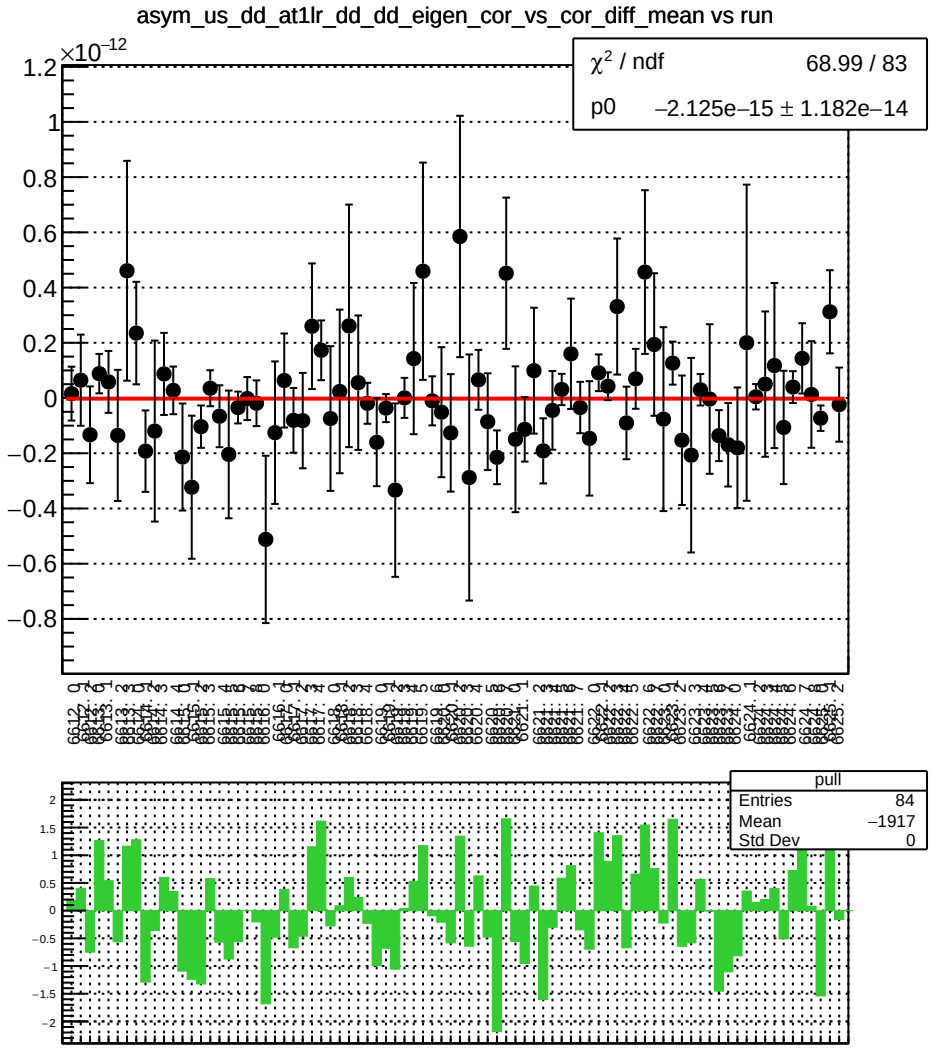

pull1D
Entries 84
Mean 0.005735
Std Dev 0.9228

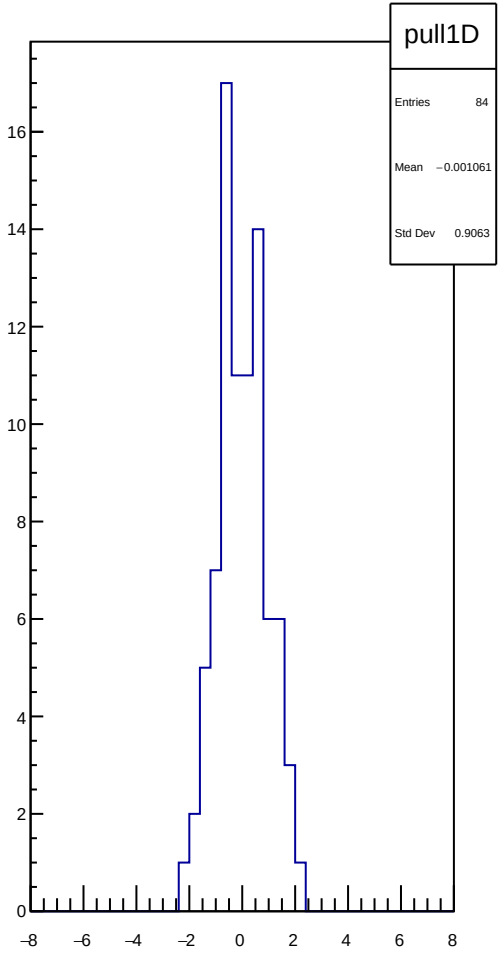

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 156.9 / 83
p0 3324 ± 2.602
3500
3450
3400
3350
3300
3250

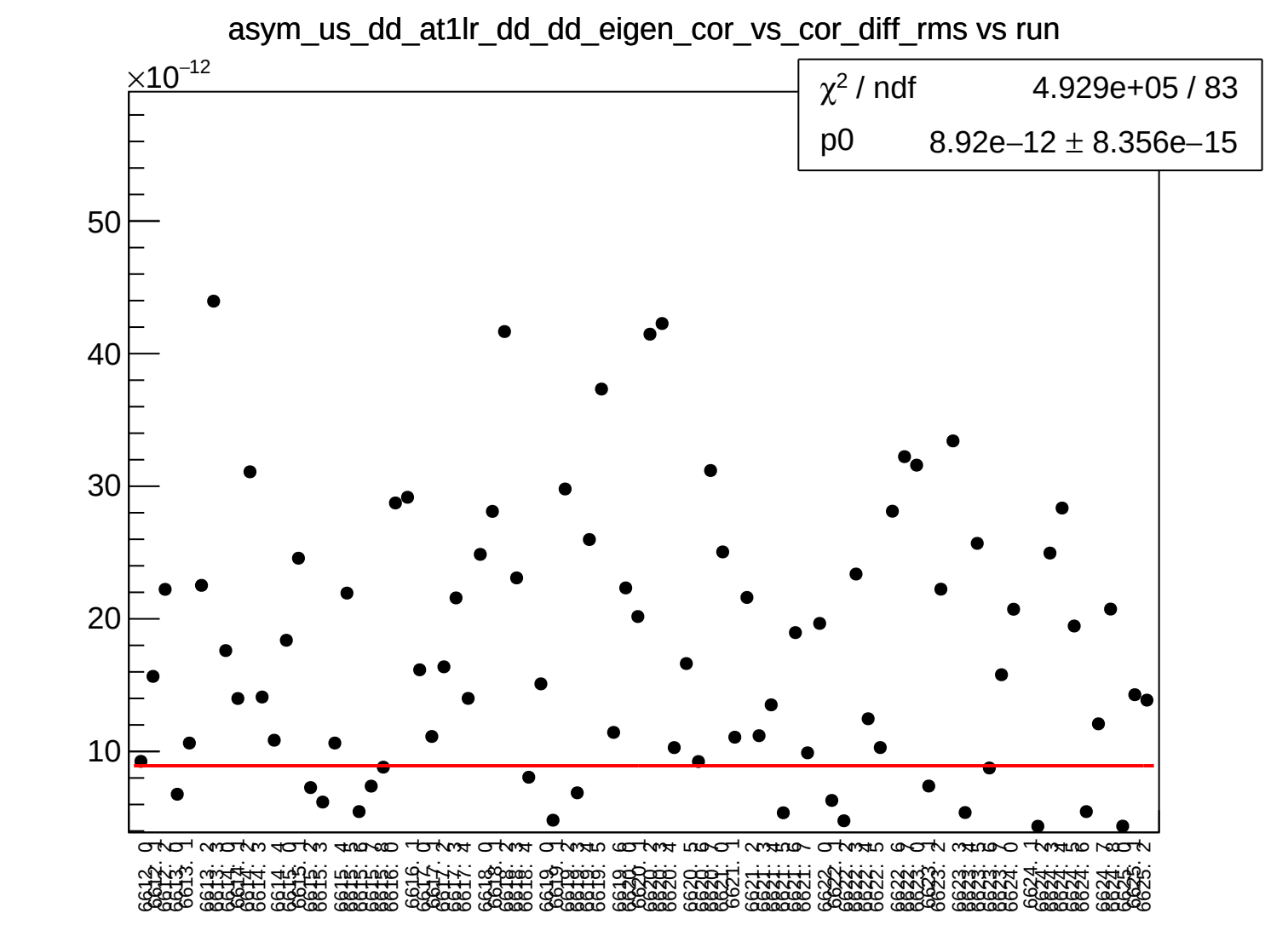

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.54 / 83
p0 5.205 ± 3.68
pull
Entries 84
Mean −657.2
Std Dev 0

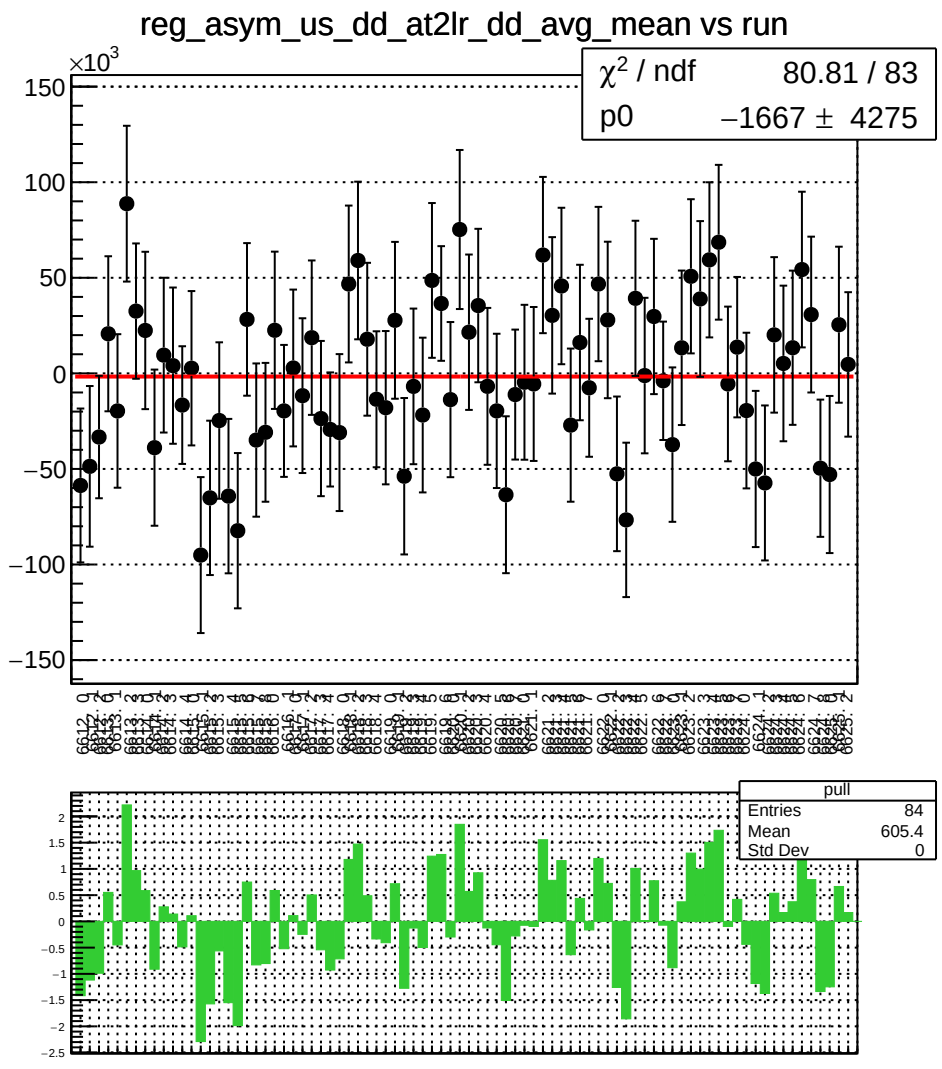

pull1D
Entries 84
Mean 0.005735
Std Dev 0.9228

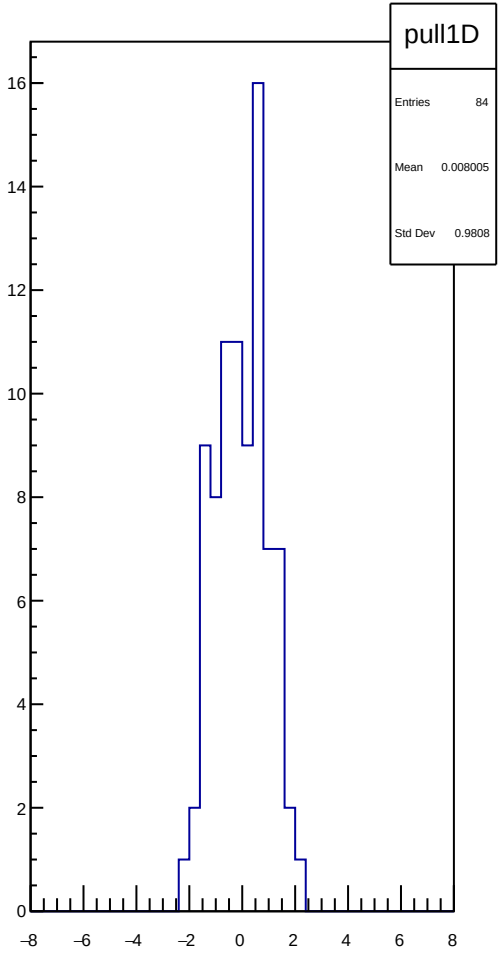

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 156.9 / 83
p0 3324 ± 2.602
3500
3450
3400
3350
3300
3250

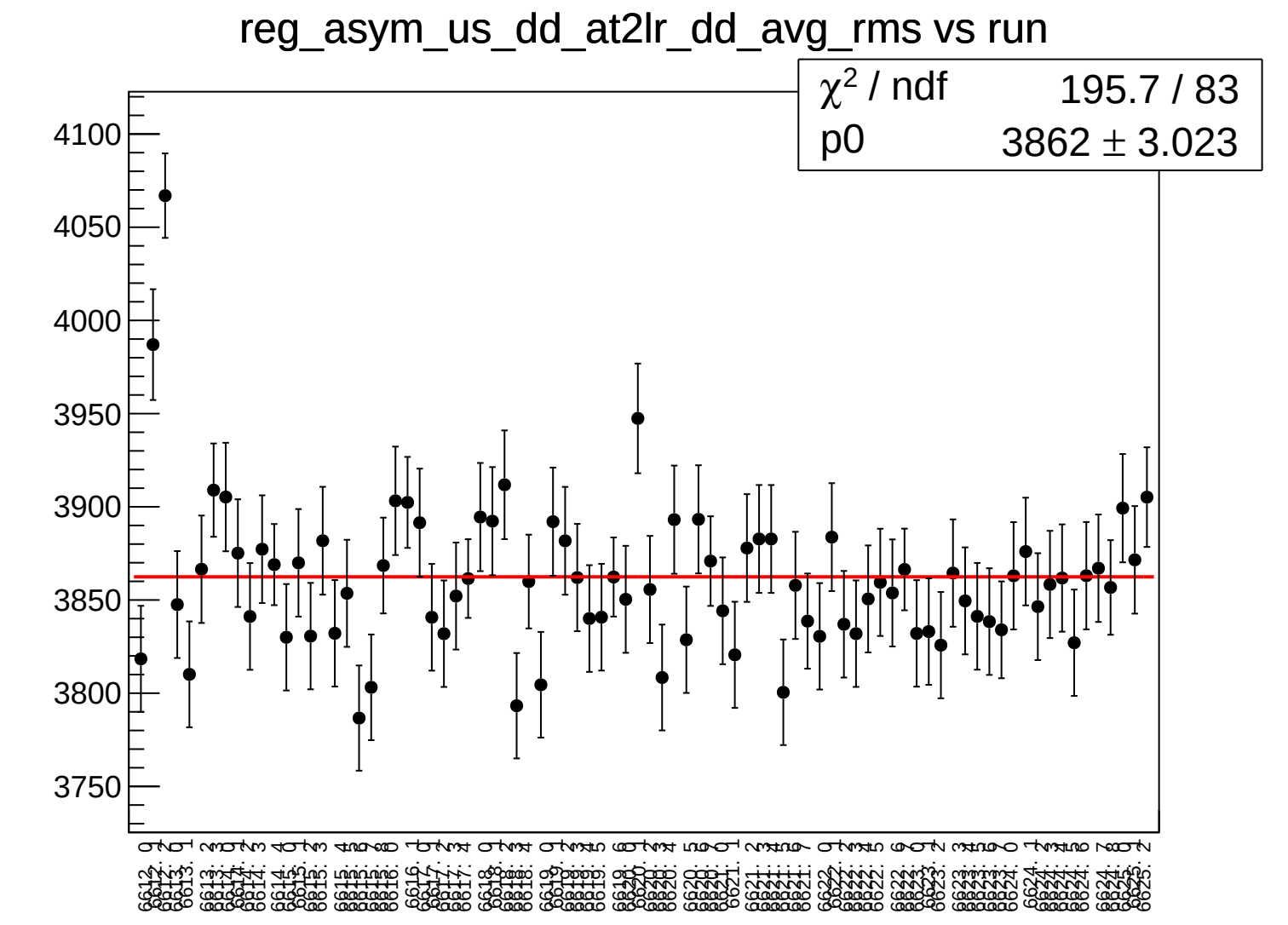

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.99 / 83
p0 −2.125e−15 ± 1.182e−14
pull
Entries 84
Mean −1917
Std Dev 0

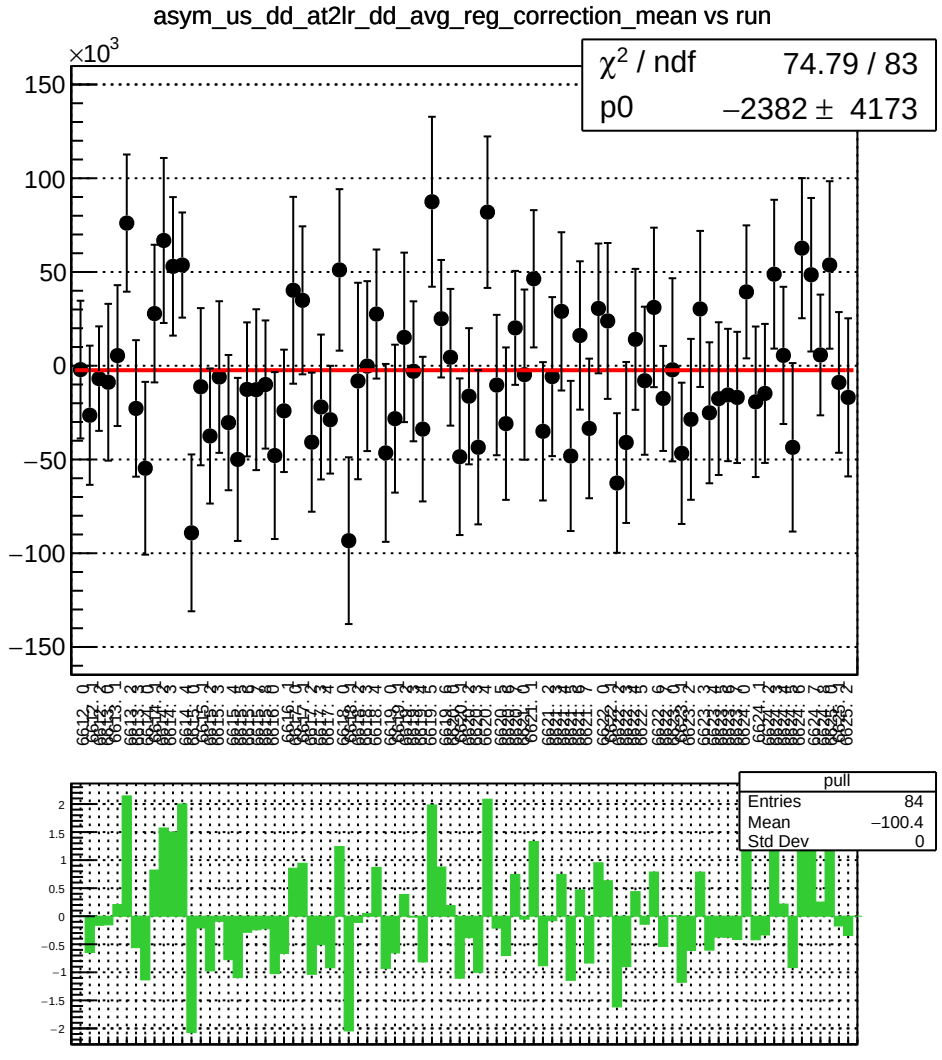

pull1D
Entries 84
Mean −0.001061
Std Dev 0.9063

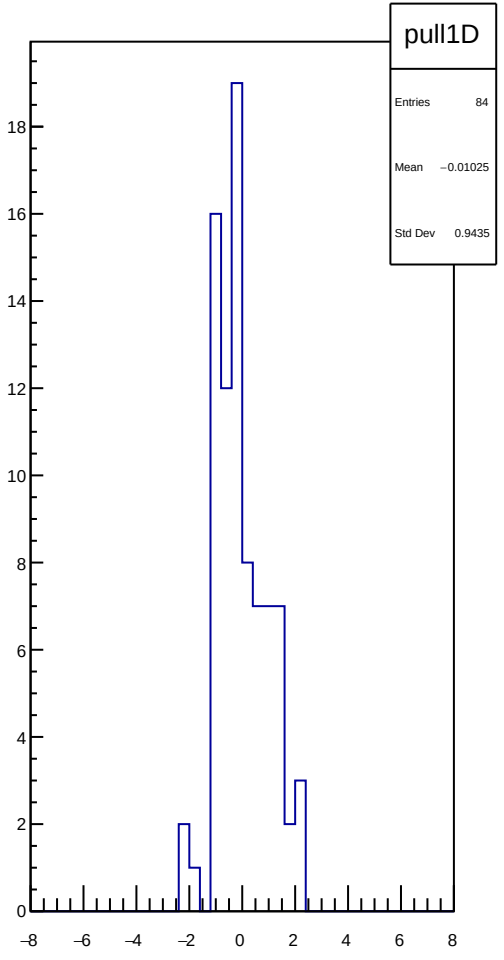

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.929e+05 / 83
p0 8.92e−12 ± 8.356e−15
50
40
30
20
10

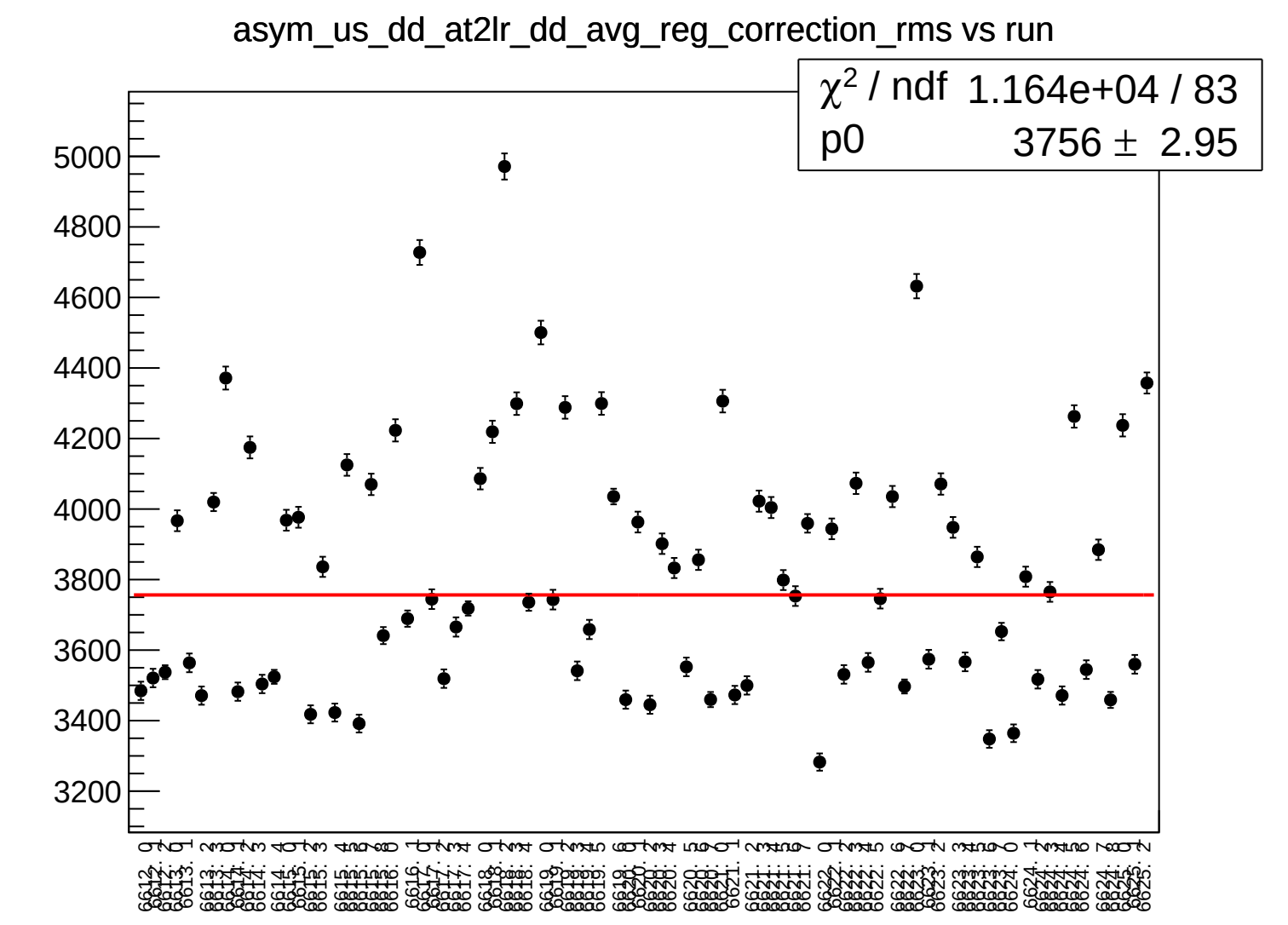

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 80.81 / 83
p0 −1667 ± 4275
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 605.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

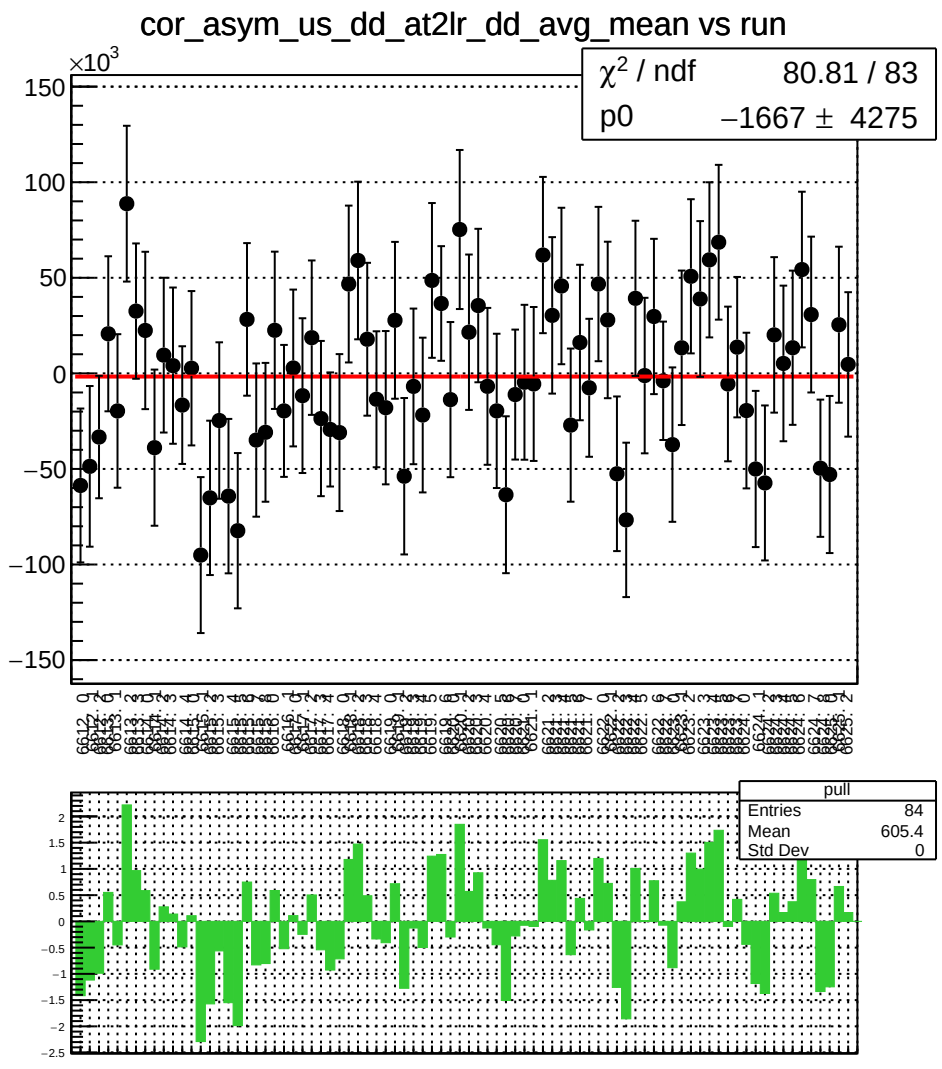

pull1D
Entries 84
Mean 0.008005
Std Dev 0.9808
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

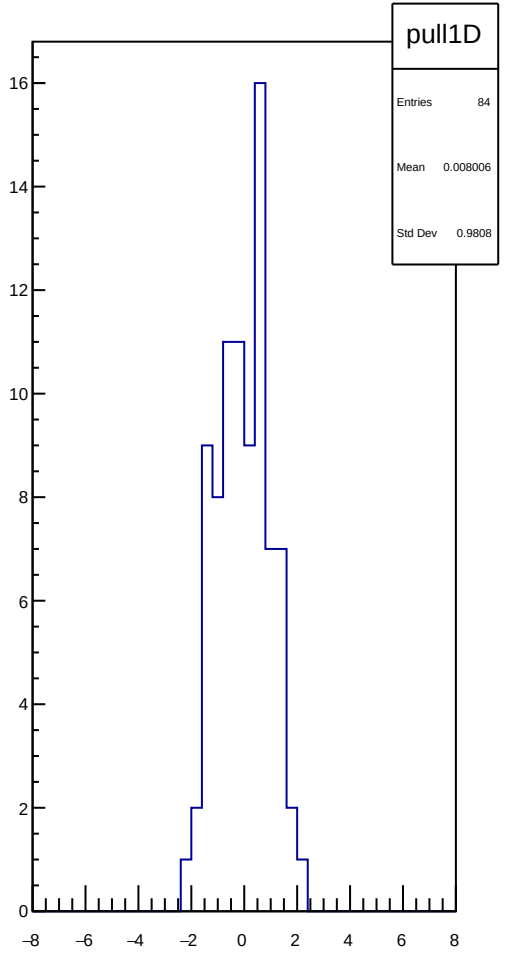

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 195.7 / 83
p0 3862 ± 3.023
4100
4050
4000
3950
3900
3850
3800
3750

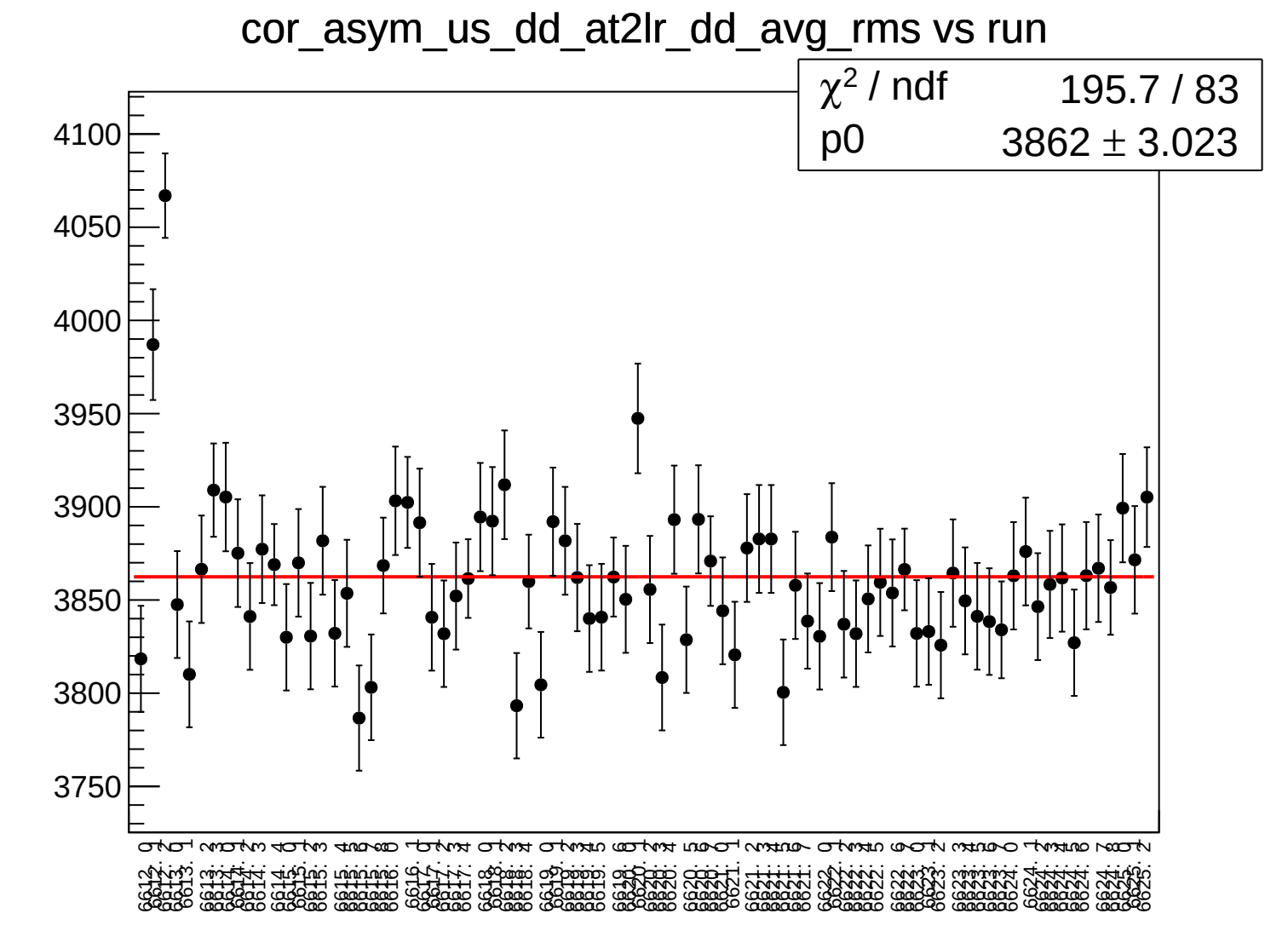

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 74.79 / 83
p0 −2382 ± 4173
pull
Entries 84
Mean −100.4
Std Dev 0

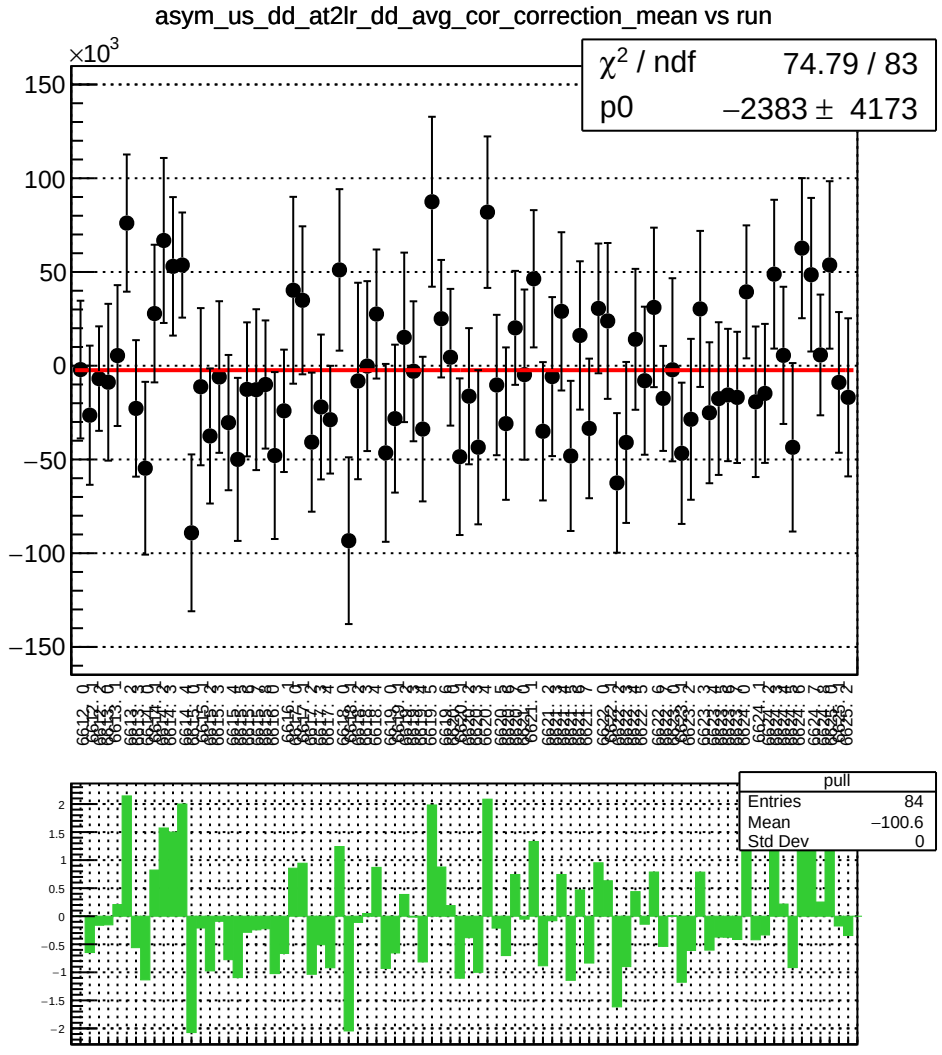

pull1D
Entries 84
Mean −0.01025
Std Dev 0.9435

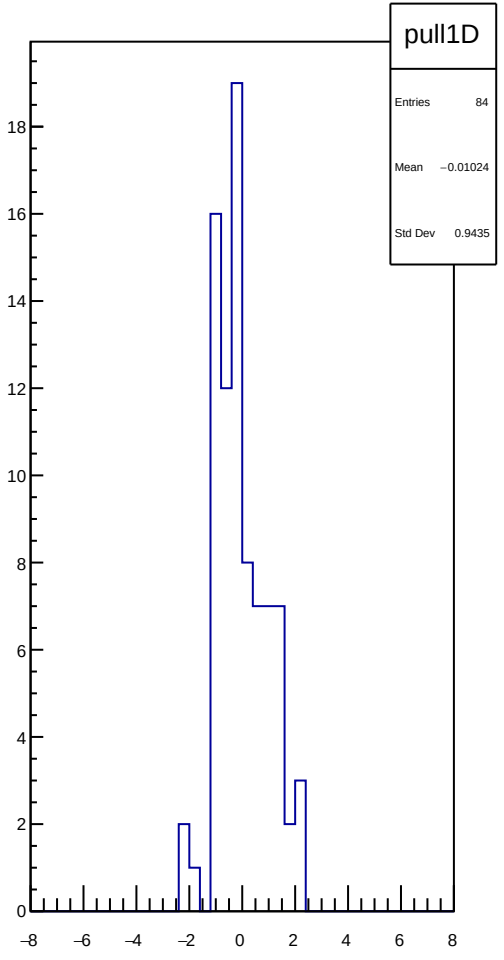

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.164e+04 / 83
p0 3756 ± 2.95
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

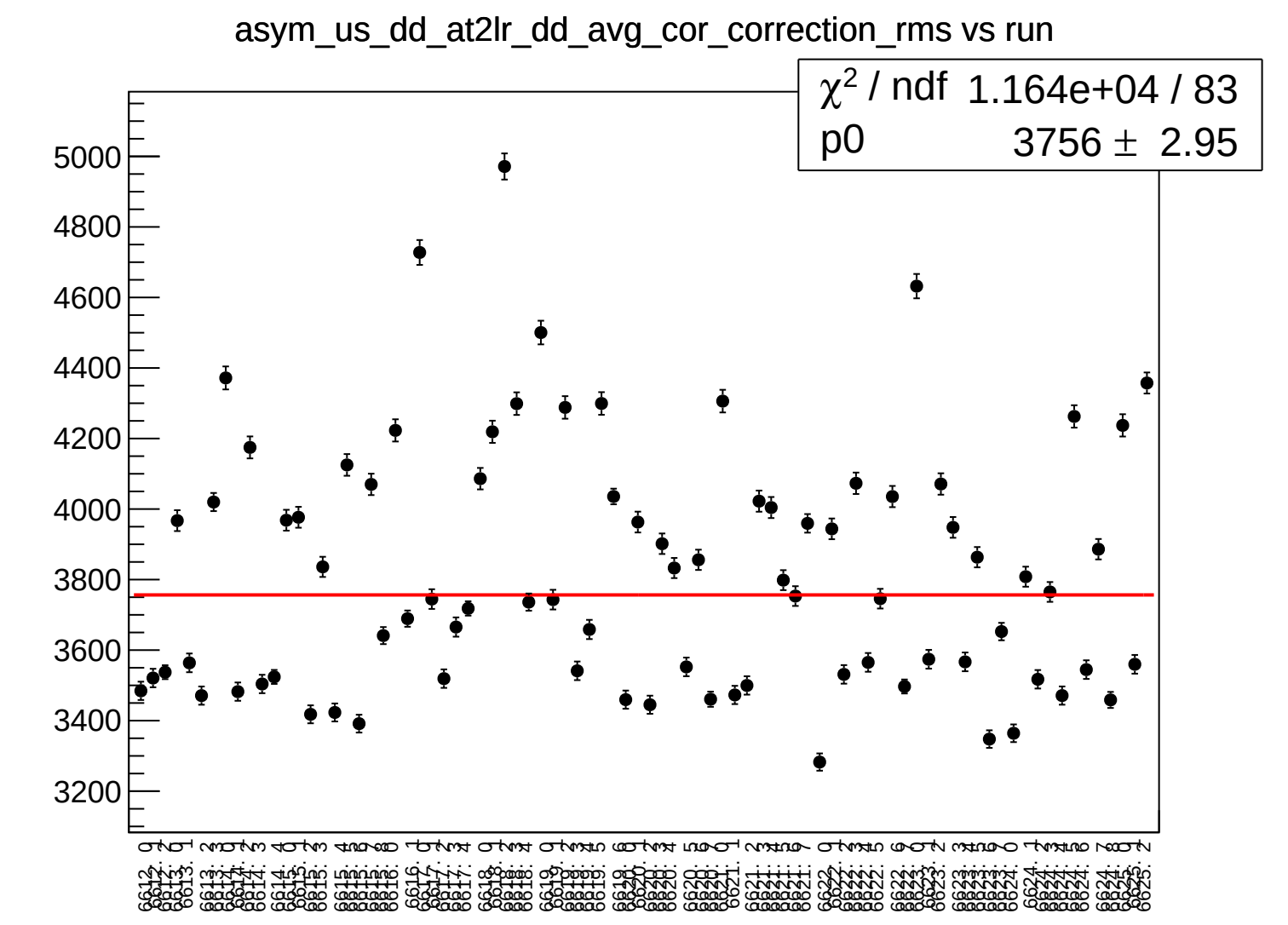

cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 80.81 / 83
p0 −1667 ± 4275
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 605.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

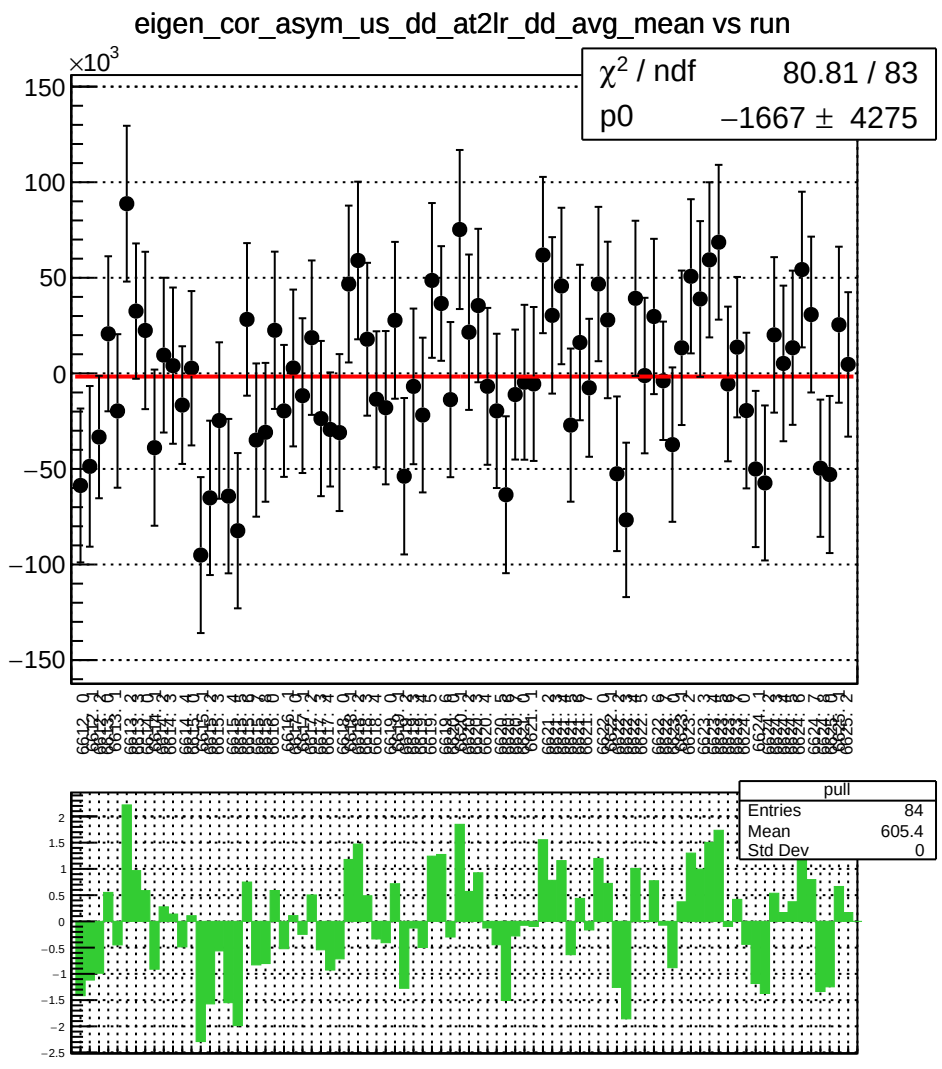

pull1D
Entries 84
Mean 0.008006
Std Dev 0.9808
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

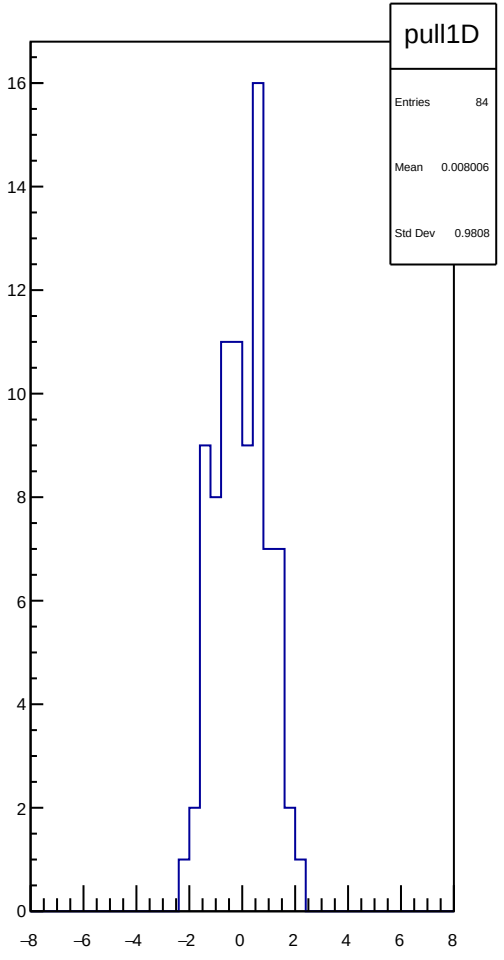

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 195.7 / 83
p0 3862 ± 3.023
4100
4050
4000
3950
3900
3850
3800
3750

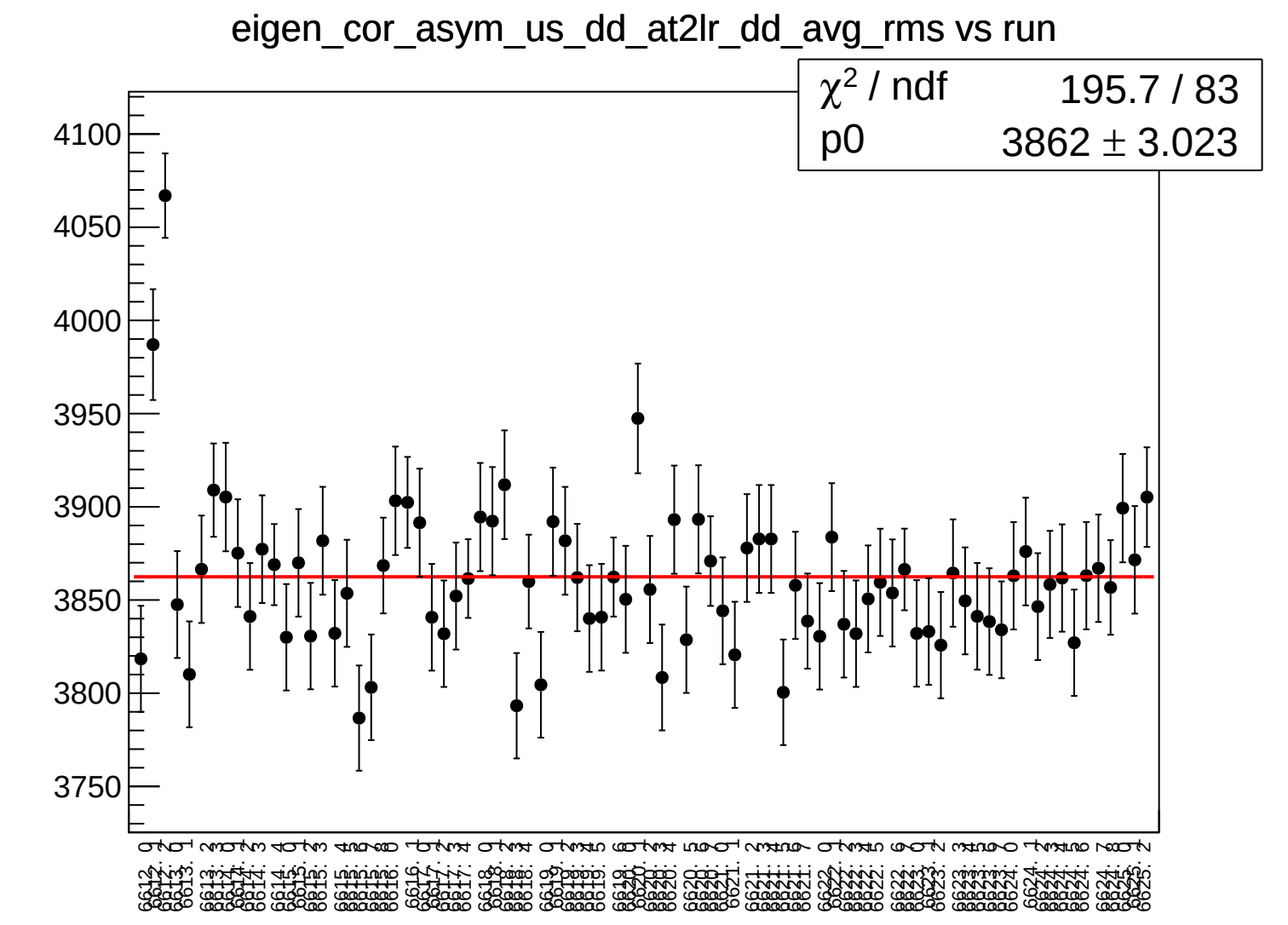

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 74.79 / 83
p0 −2383 ± 4173
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −100.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

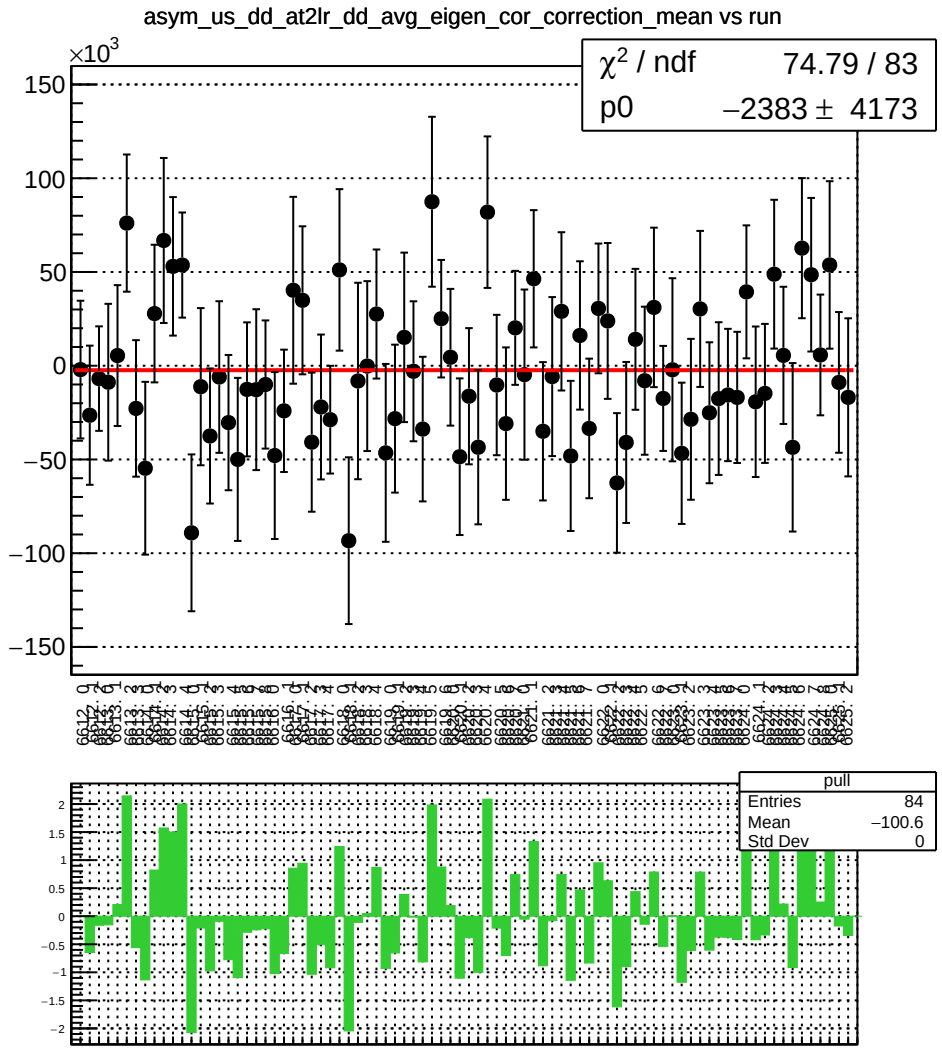

pull1D
Entries 84
Mean −0.01024
Std Dev 0.9435
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

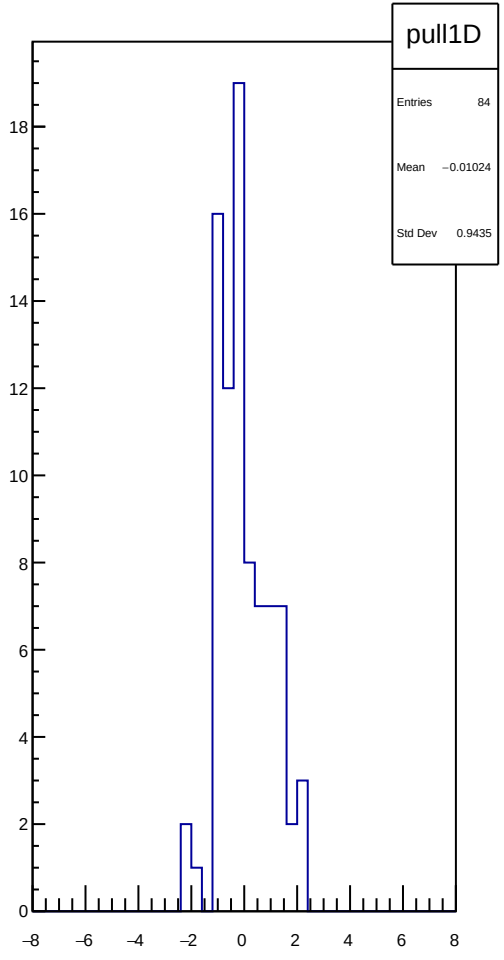

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.164e+04 / 83
p0 3756 ± 2.95
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

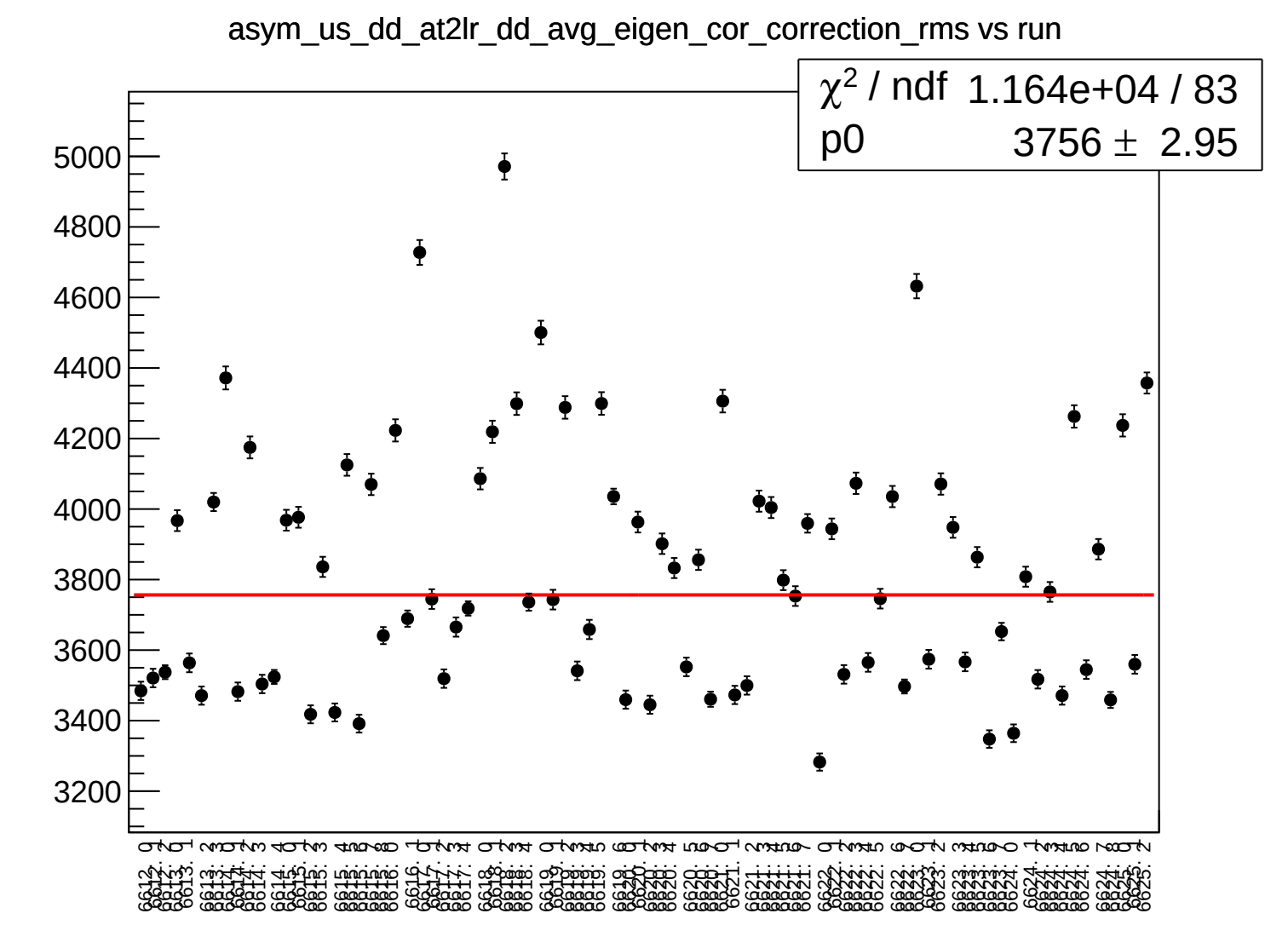

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 80.81 / 83
p0 −1667 ± 4275
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 605.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

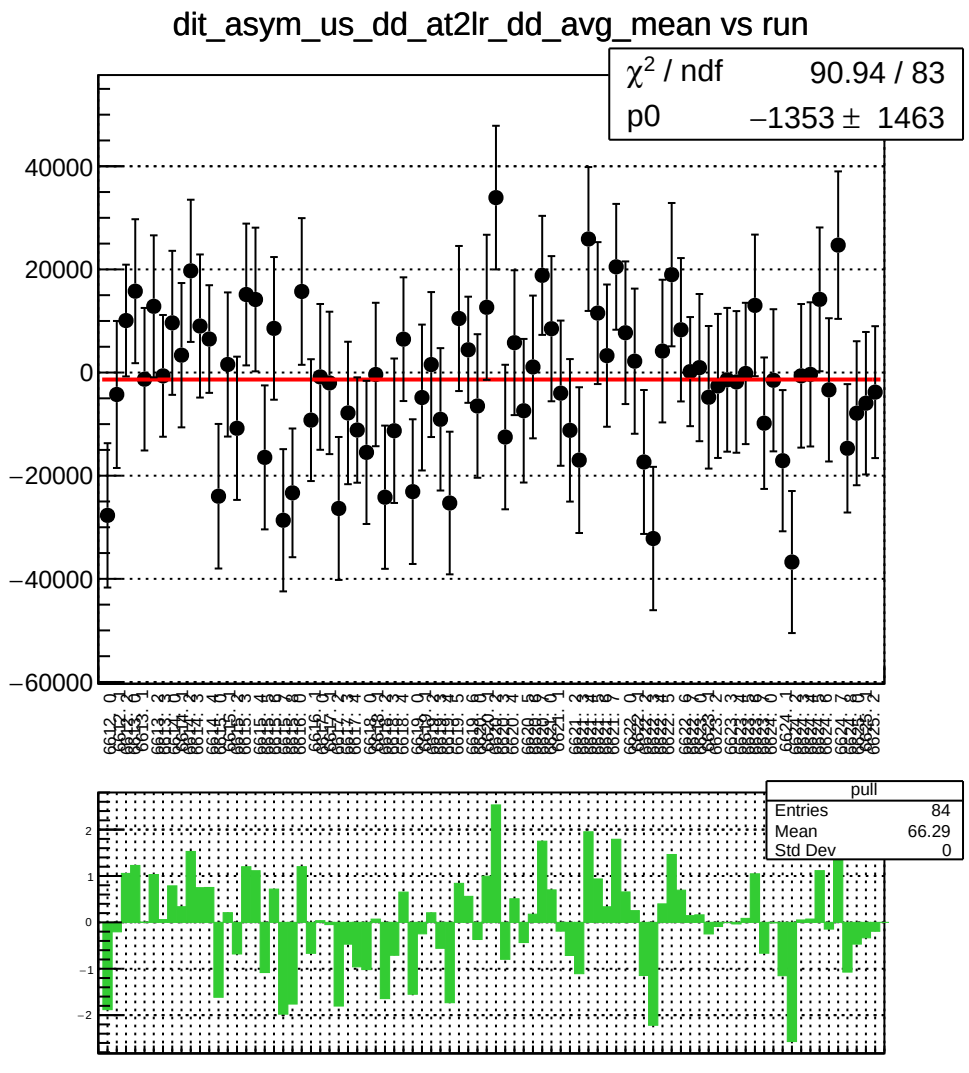

pull1D
Entries 84
Mean 0.008006
Std Dev 0.9808
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

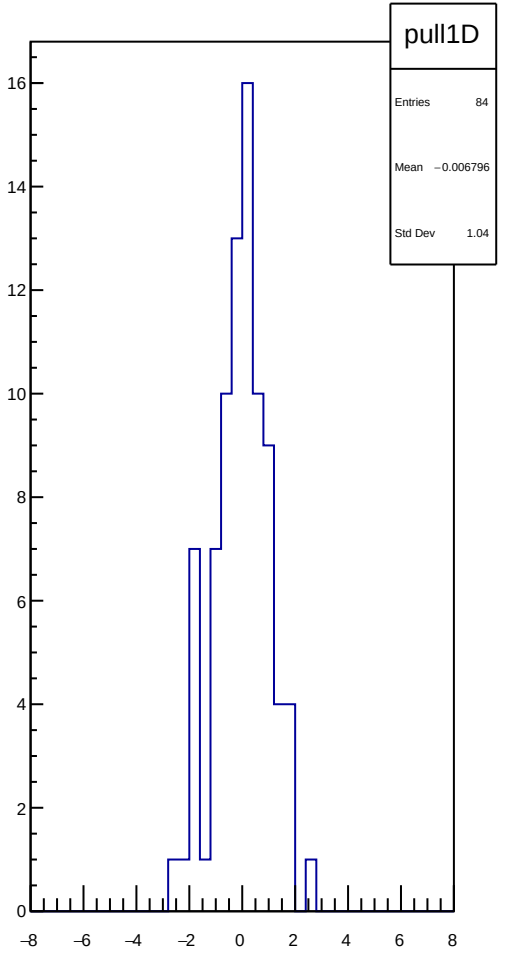

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 195.7 / 83
p0 3862 ± 3.023
4100
4050
4000
3950
3900
3850
3800
3750

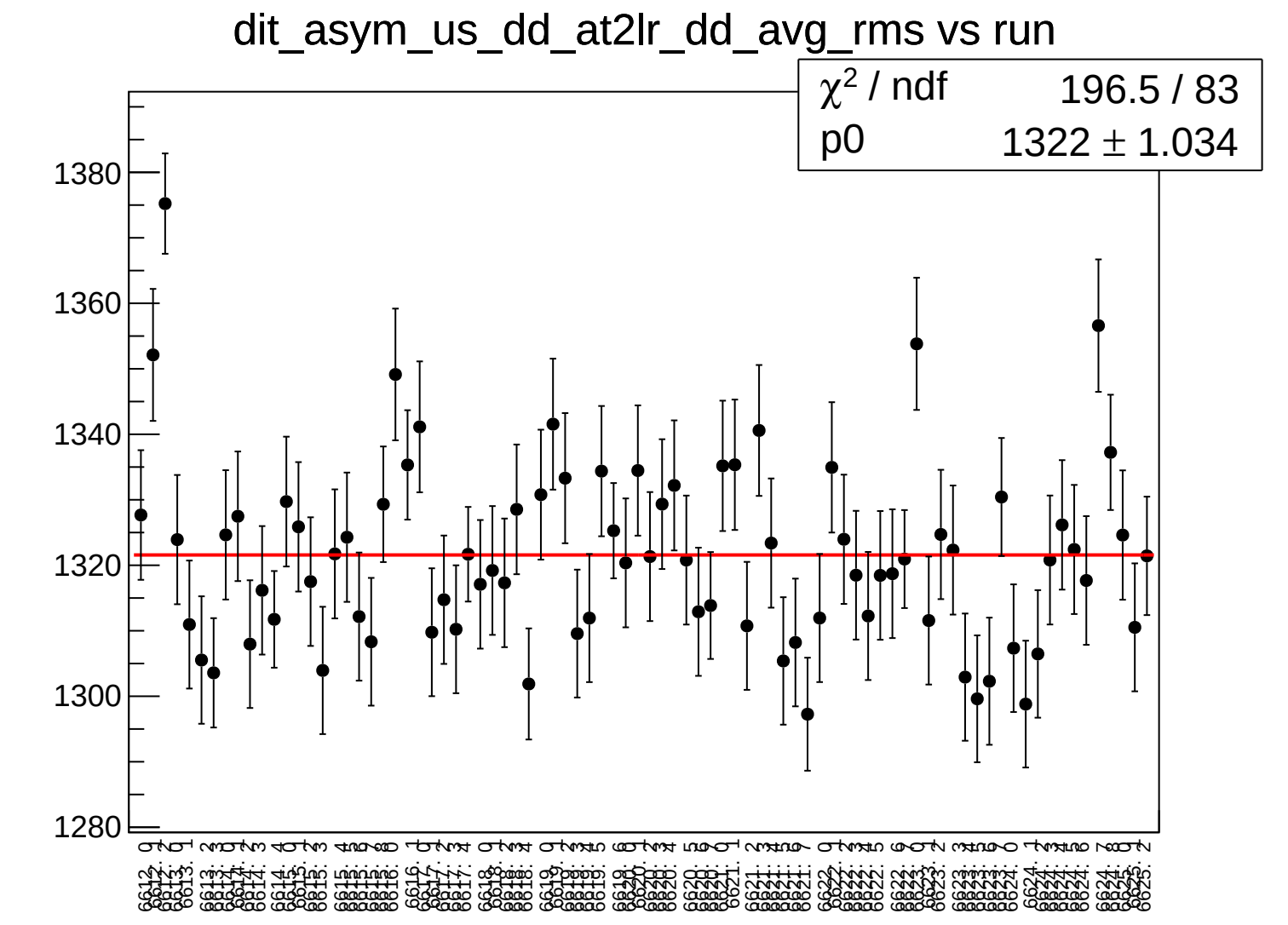

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 74.79 / 83
p0 −2383 ± 4173
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −100.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

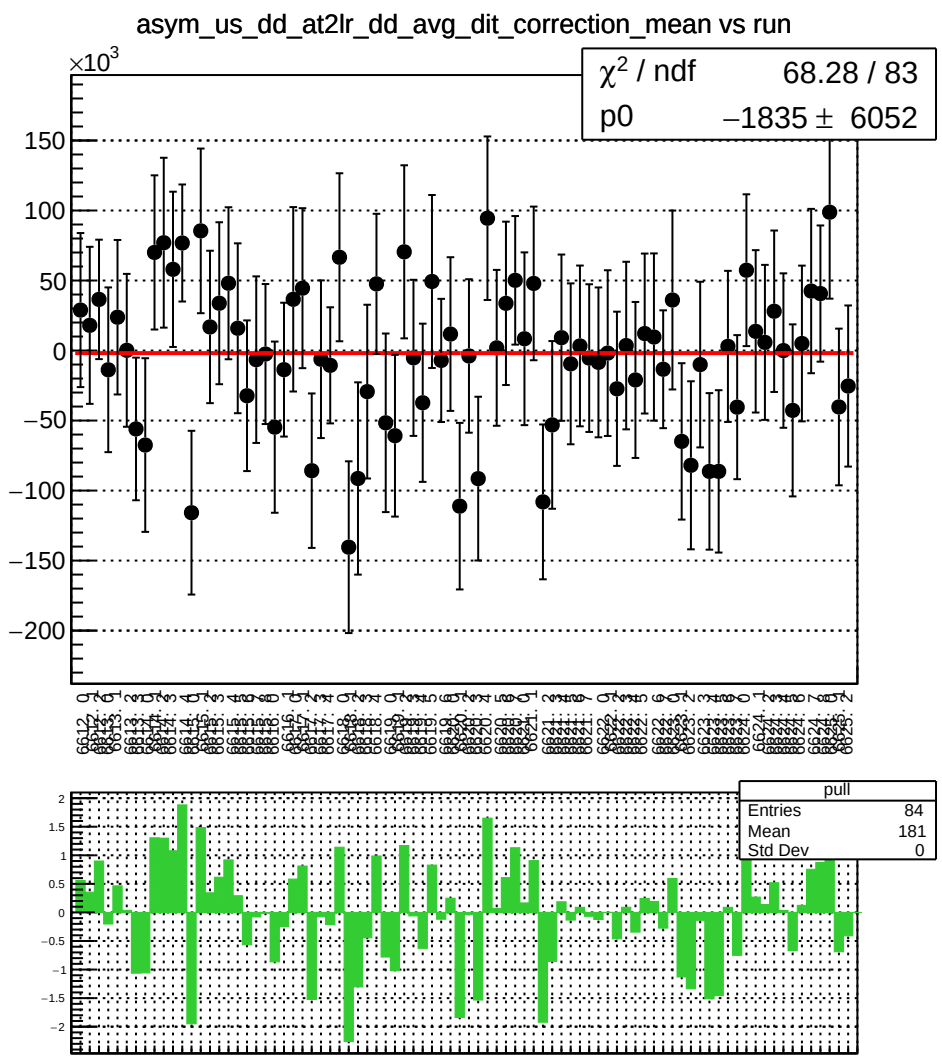

pull1D
Entries 84
Mean −0.01024
Std Dev 0.9435
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

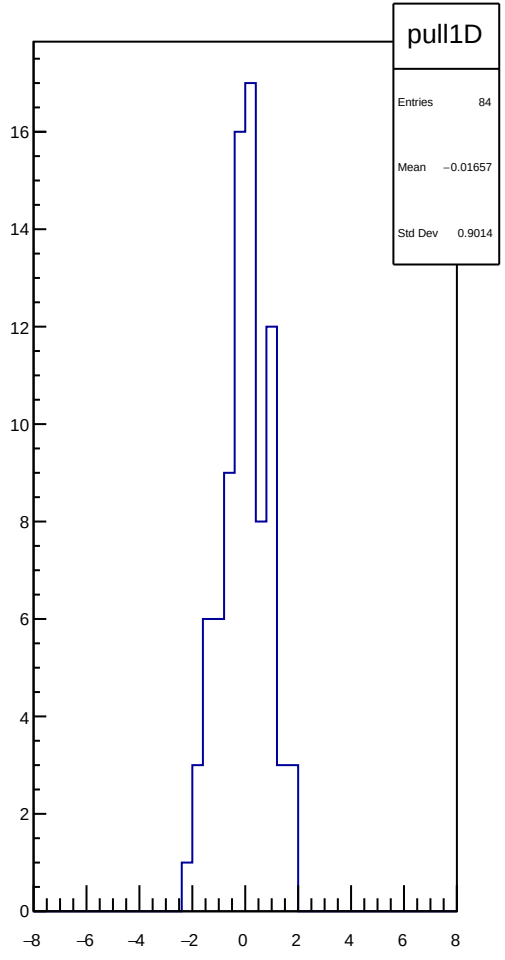

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.164e+04 / 83
p0 3756 ± 2.95
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

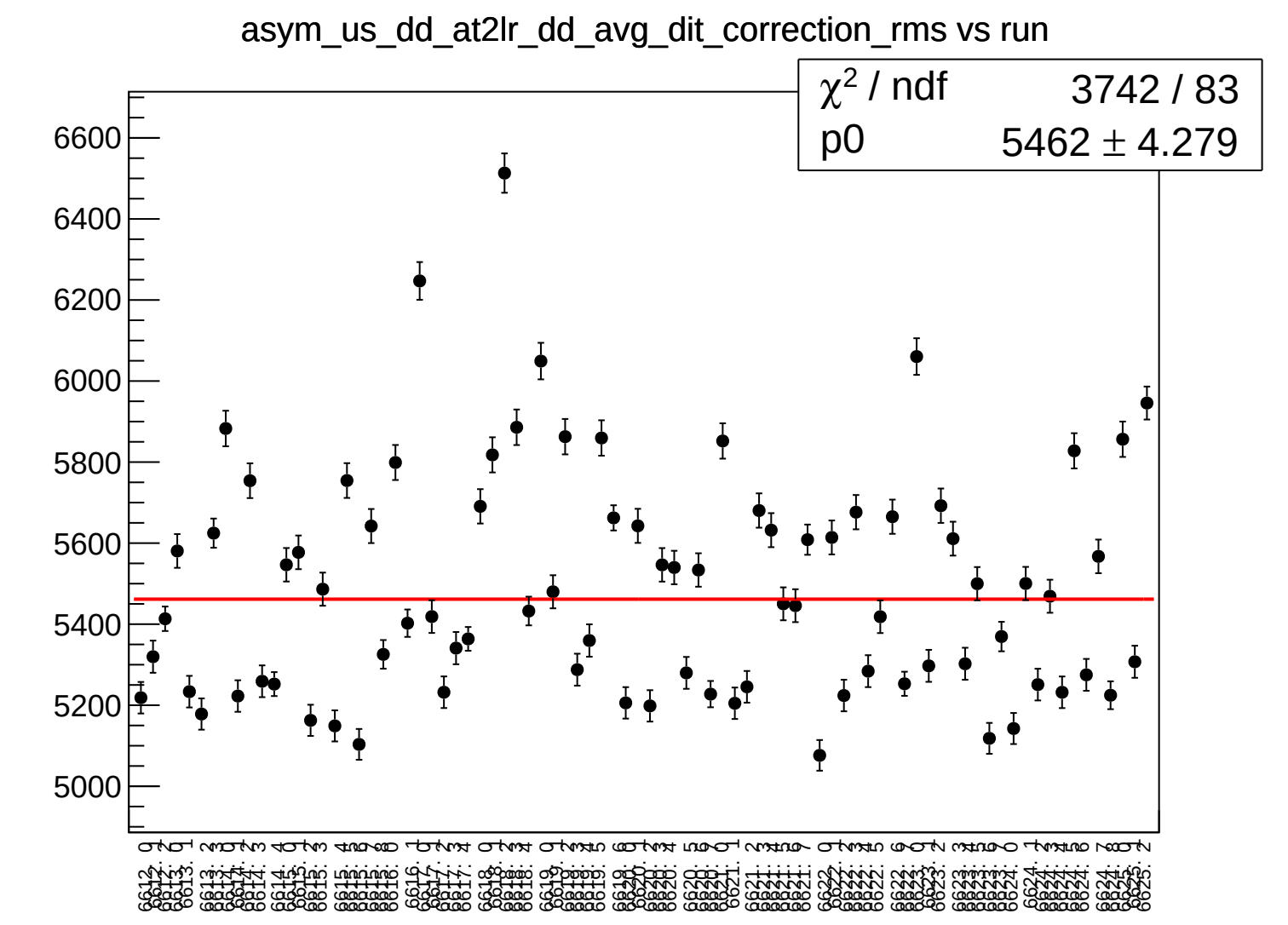

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 90.94 / 83
p0 −1353 ± 1463
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 66.29
Std Dev 0
2
1
0
−1
−2

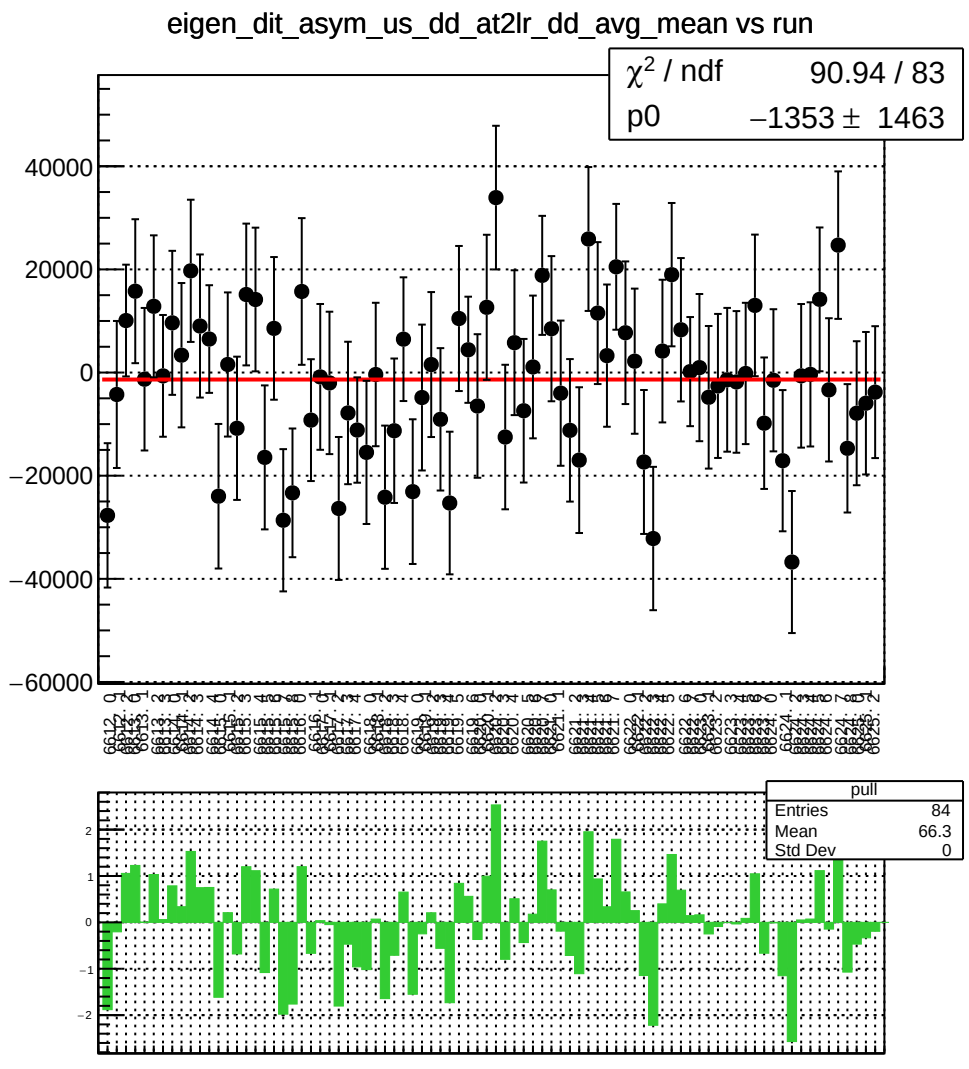

pull1D
Entries 84
Mean −0.006796
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

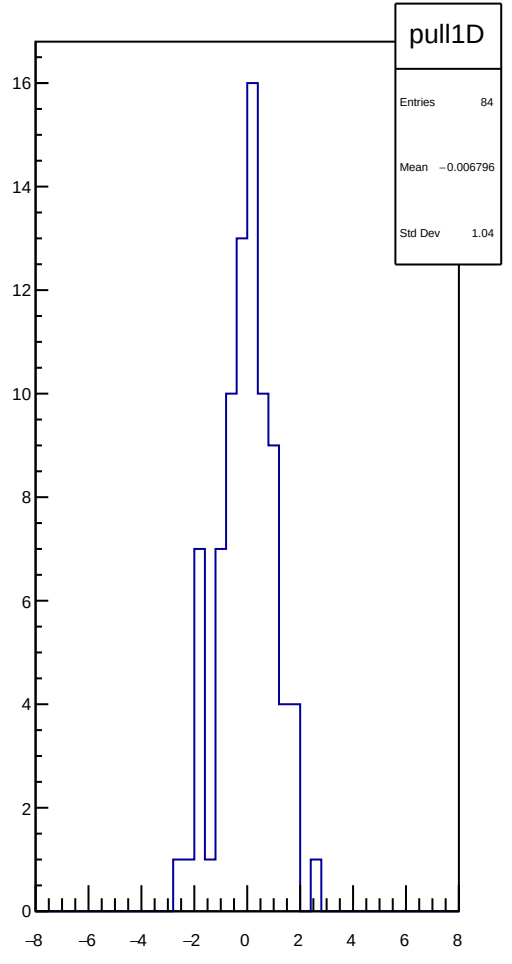

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 196.5 / 83
p0 1322 ± 1.034
1380
1360
1340
1320
1300
1280

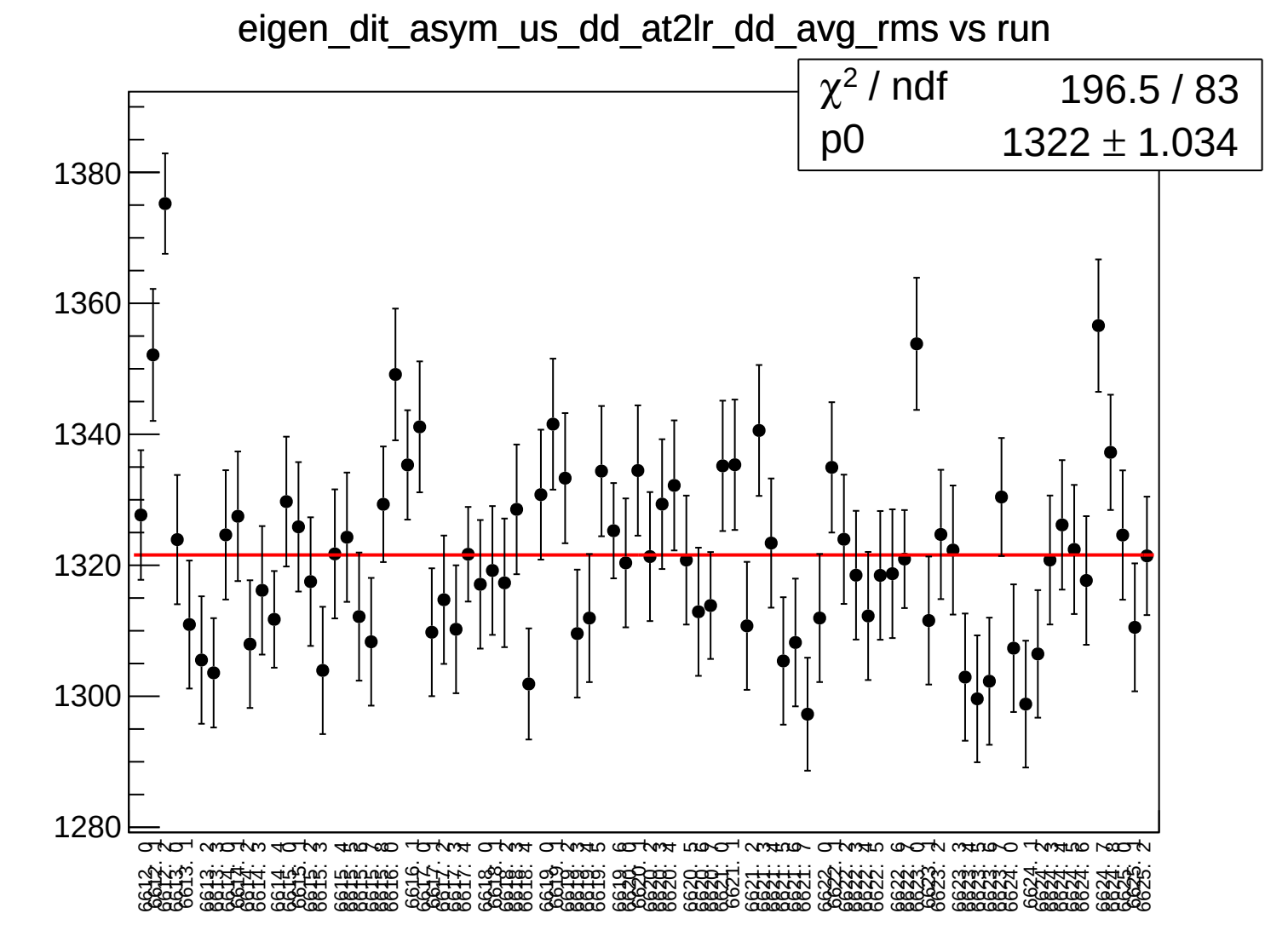

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.28 / 83
p0 −1835 ± 6052
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 181
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

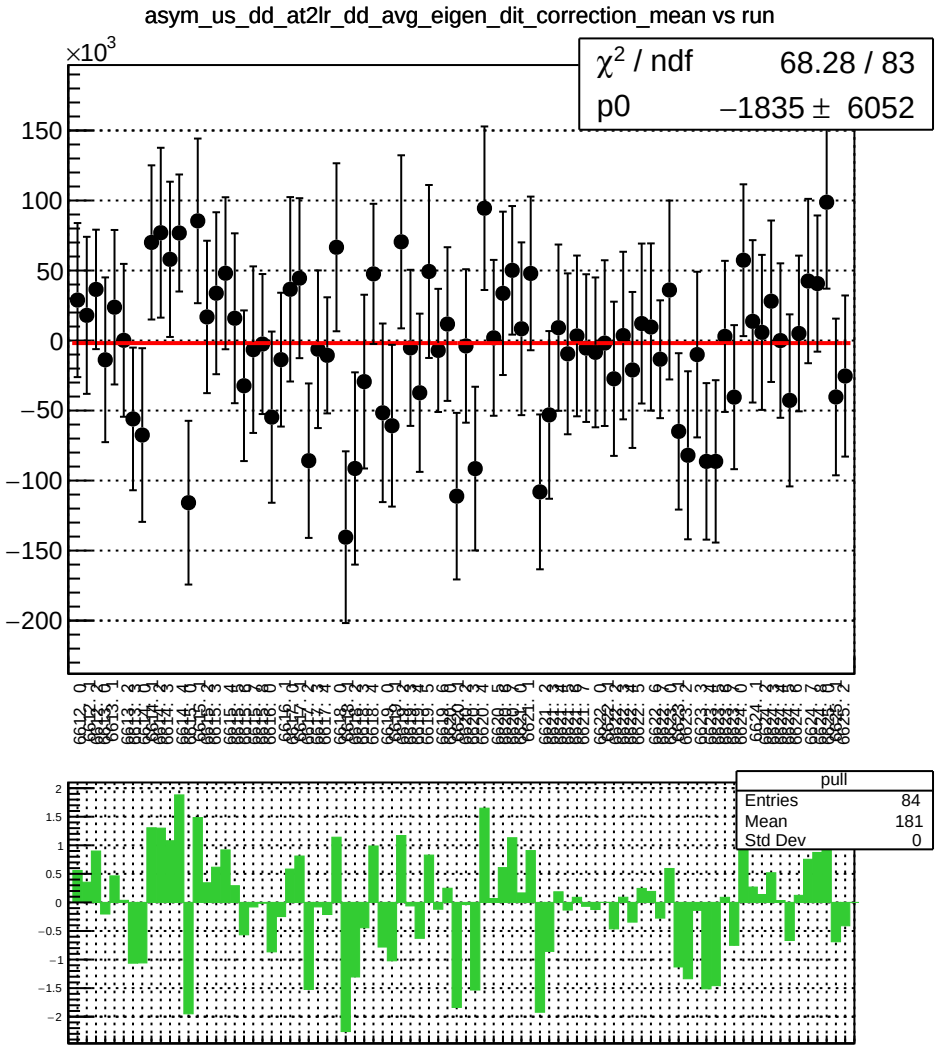

pull1D
Entries 84
Mean −0.01657
Std Dev 0.9014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

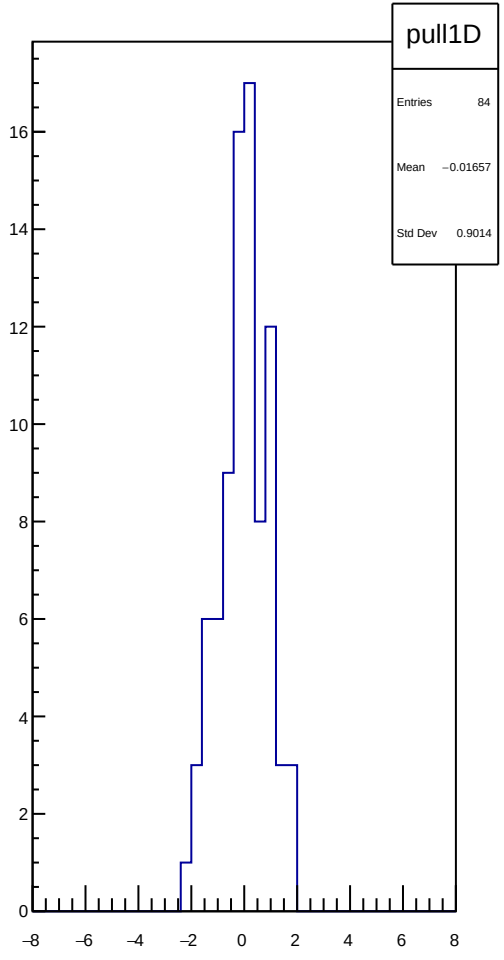

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ^2 / ndf 3742 / 83
p0 5462 ± 4.279
6600
6400
6200
6000
5800
5600
5400
5200
5000

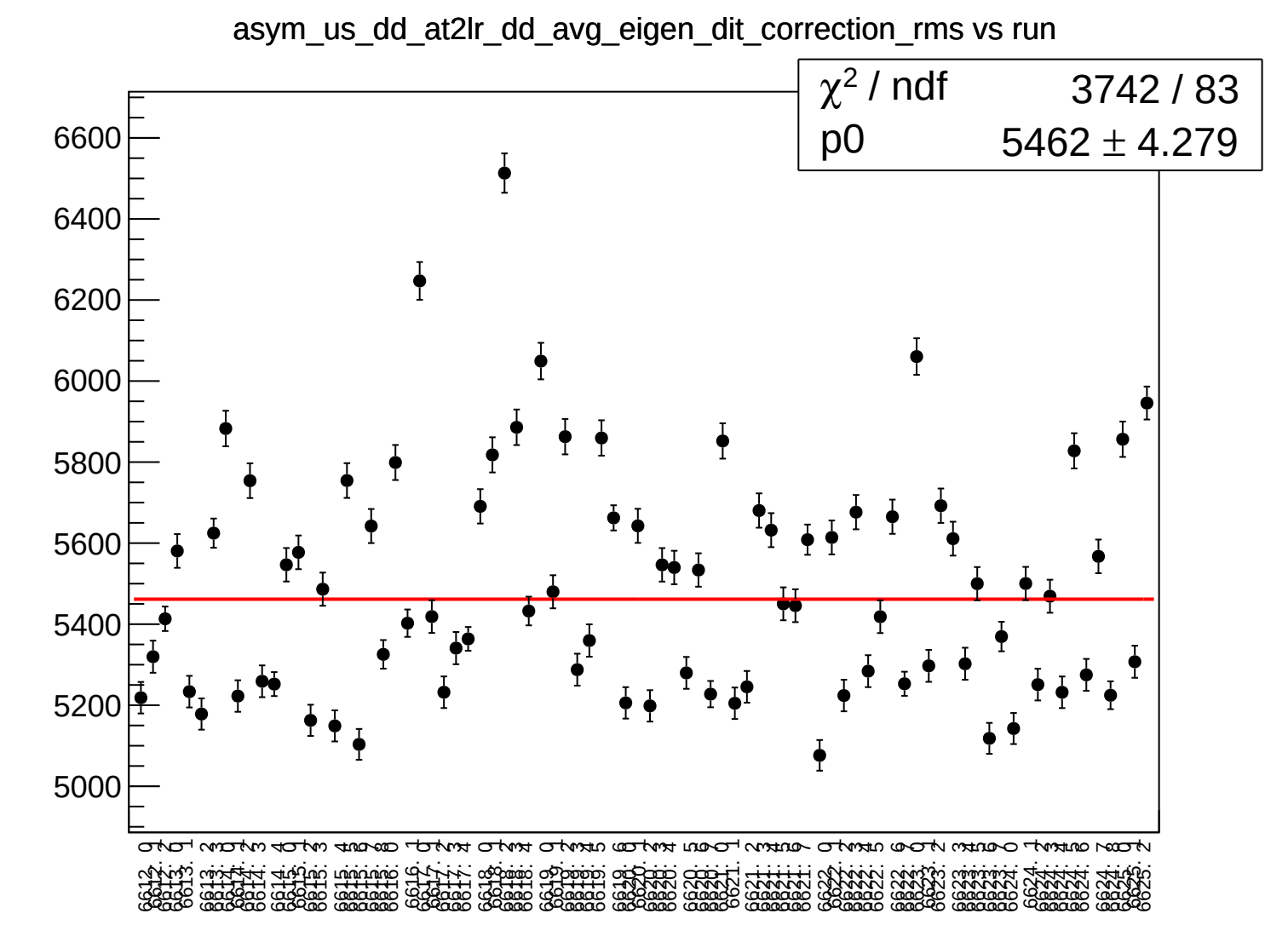

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 90.94 / 83
p0 −1353 ± 1463
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 66.3
Std Dev 0
2
1
0
−1
−2

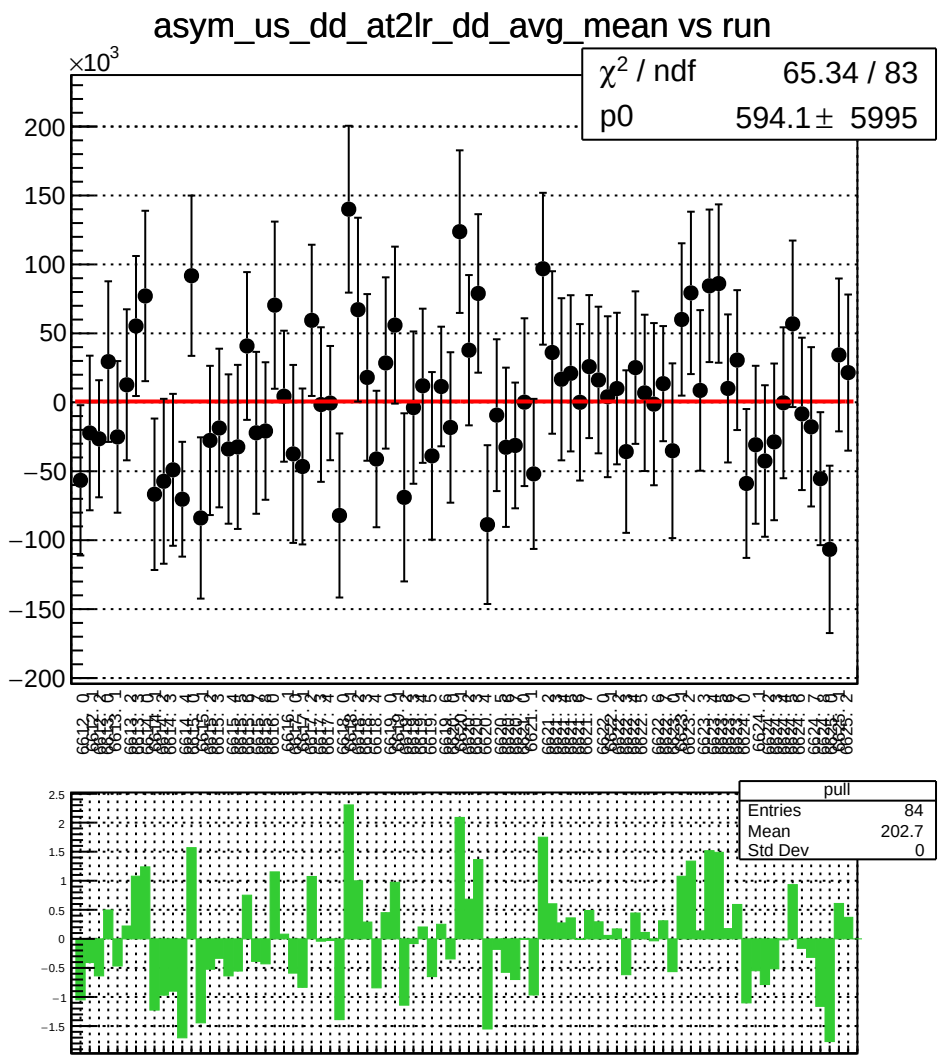

pull1D
Entries 84
Mean −0.006796
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

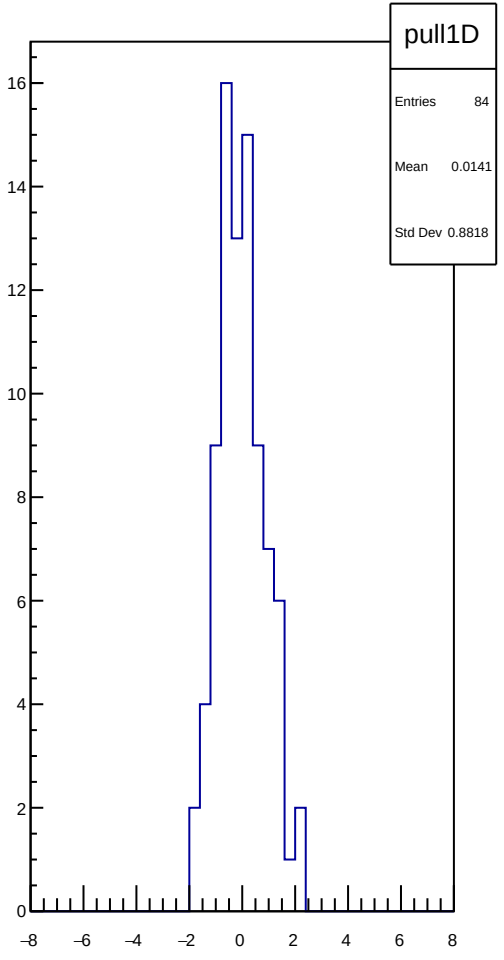

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 196.5 / 83
p0 1322 ± 1.034
1380
1360
1340
1320
1300
1280

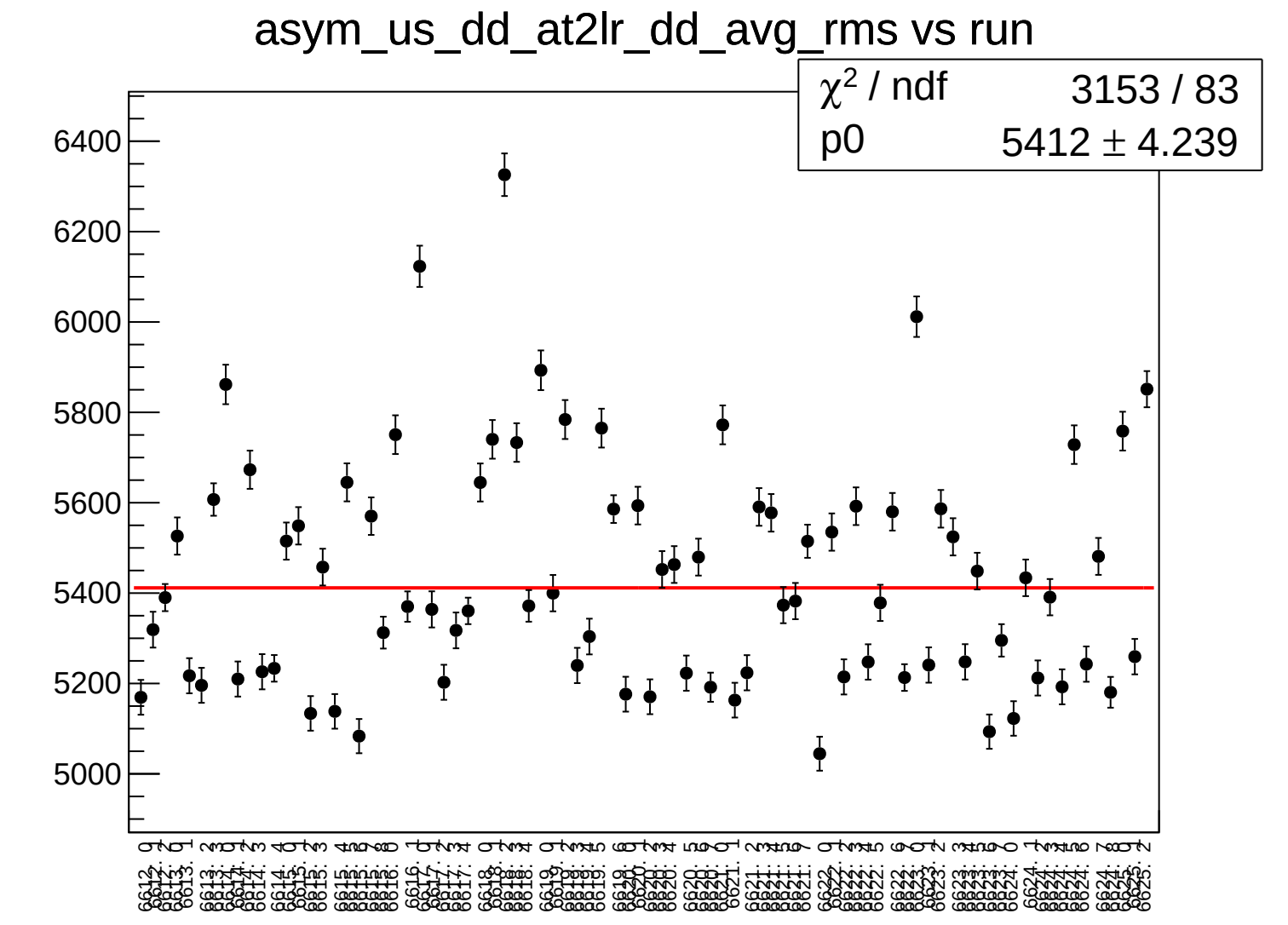

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.28 / 83
p0 −1835 ± 6052
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 181
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

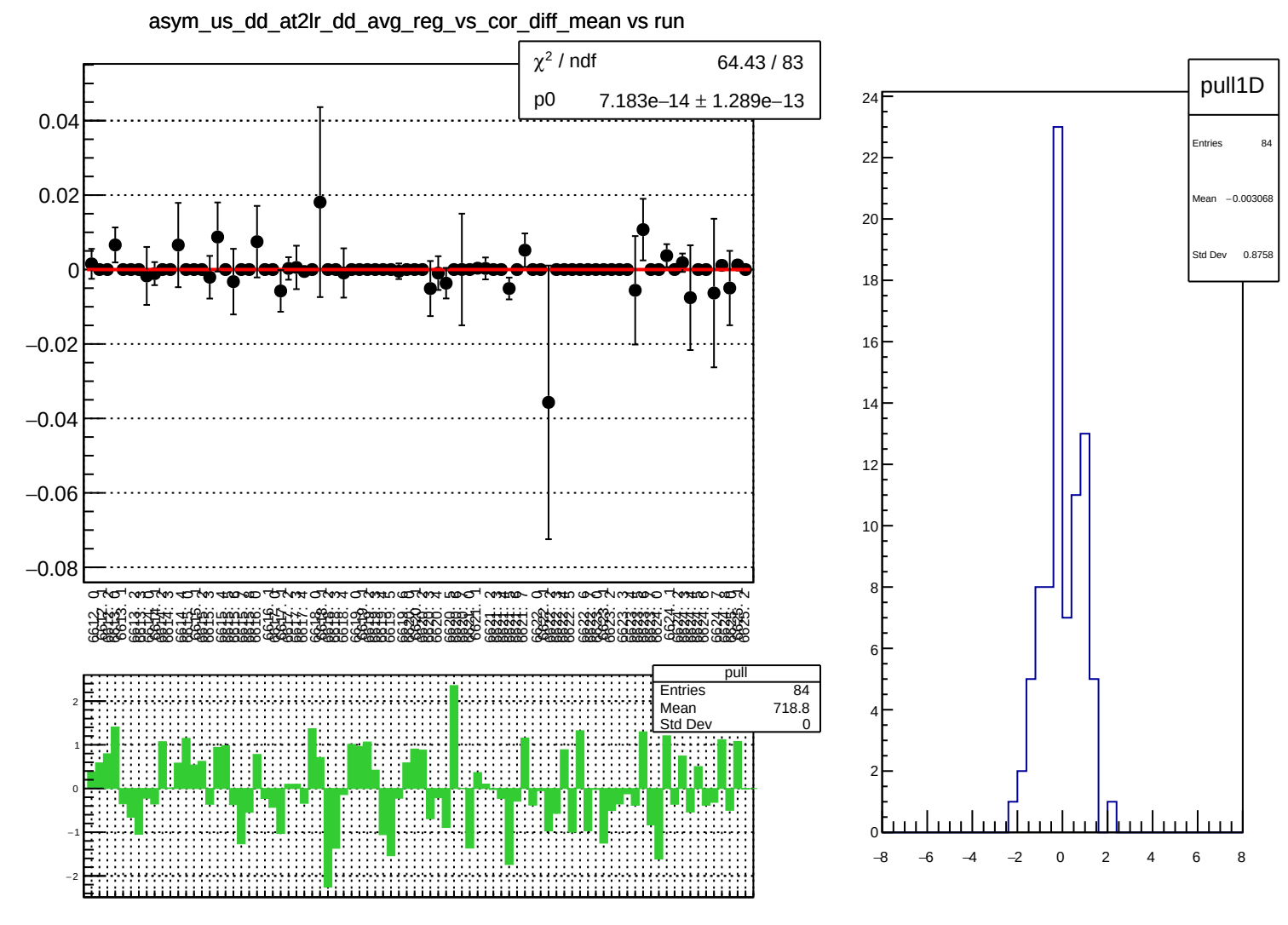

pull1D
Entries 84
Mean −0.01657
Std Dev 0.9014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

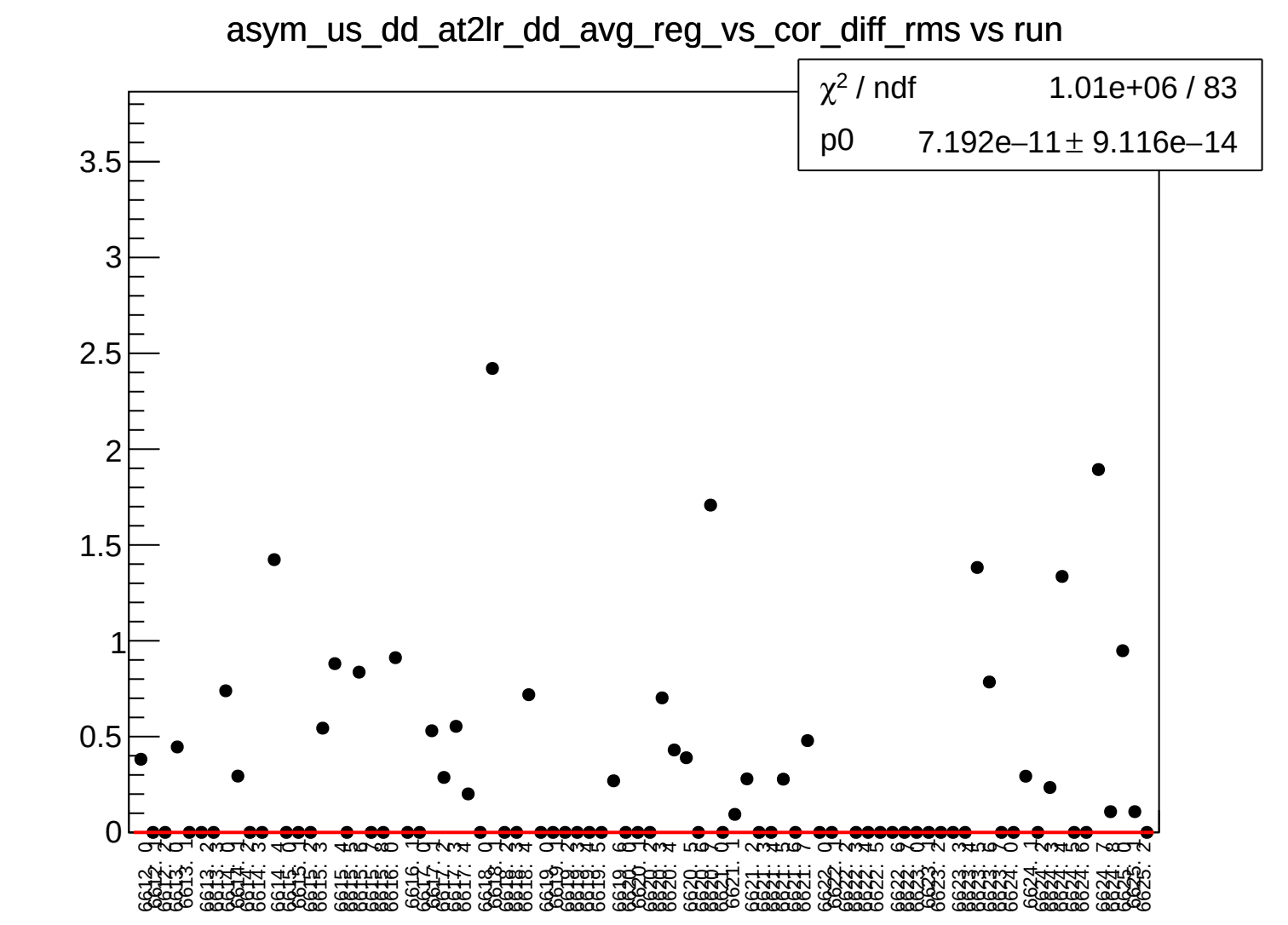

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3742 / 83
p0 5462 ± 4.279
6600
6400
6200
6000
5800
5600
5400
5200
5000

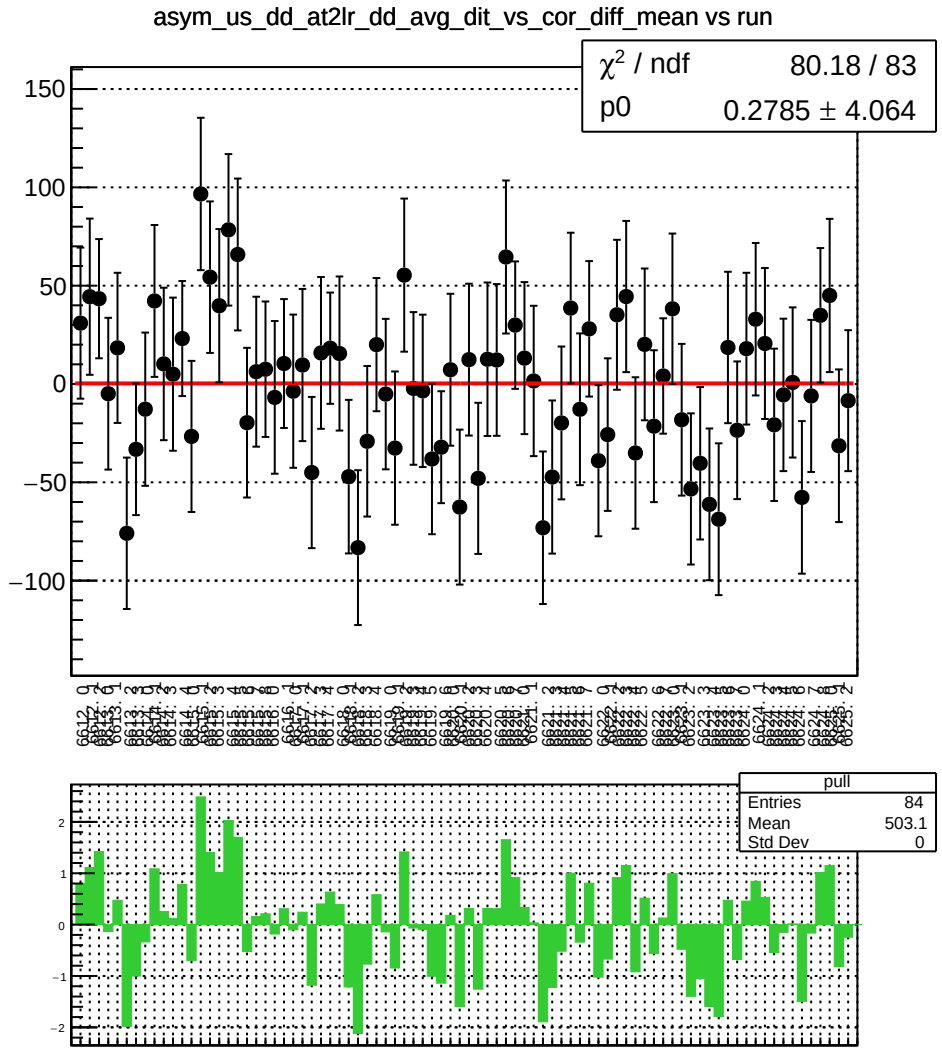

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 65.34 / 83
p0 594.1 ± 5995
pull
Entries 84
Mean 202.7
Std Dev 0

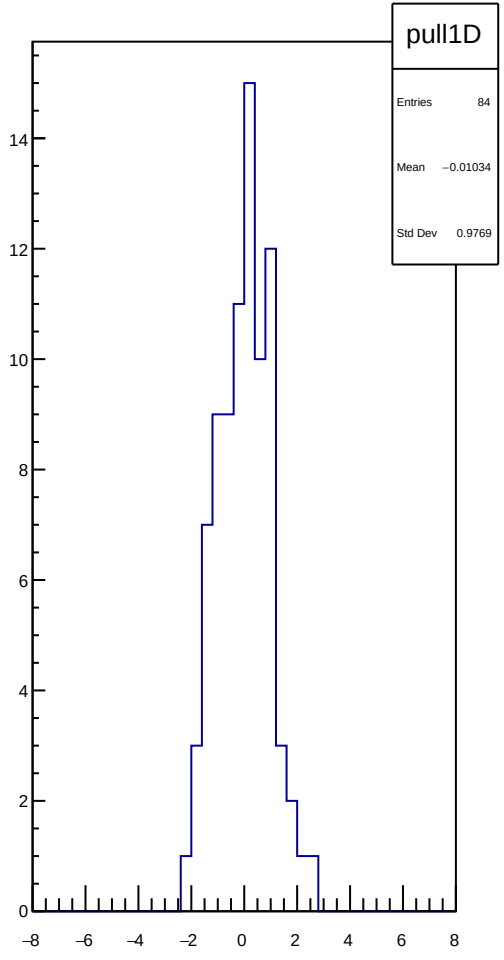

pull1D
Entries 84
Mean 0.0141
Std Dev 0.8818

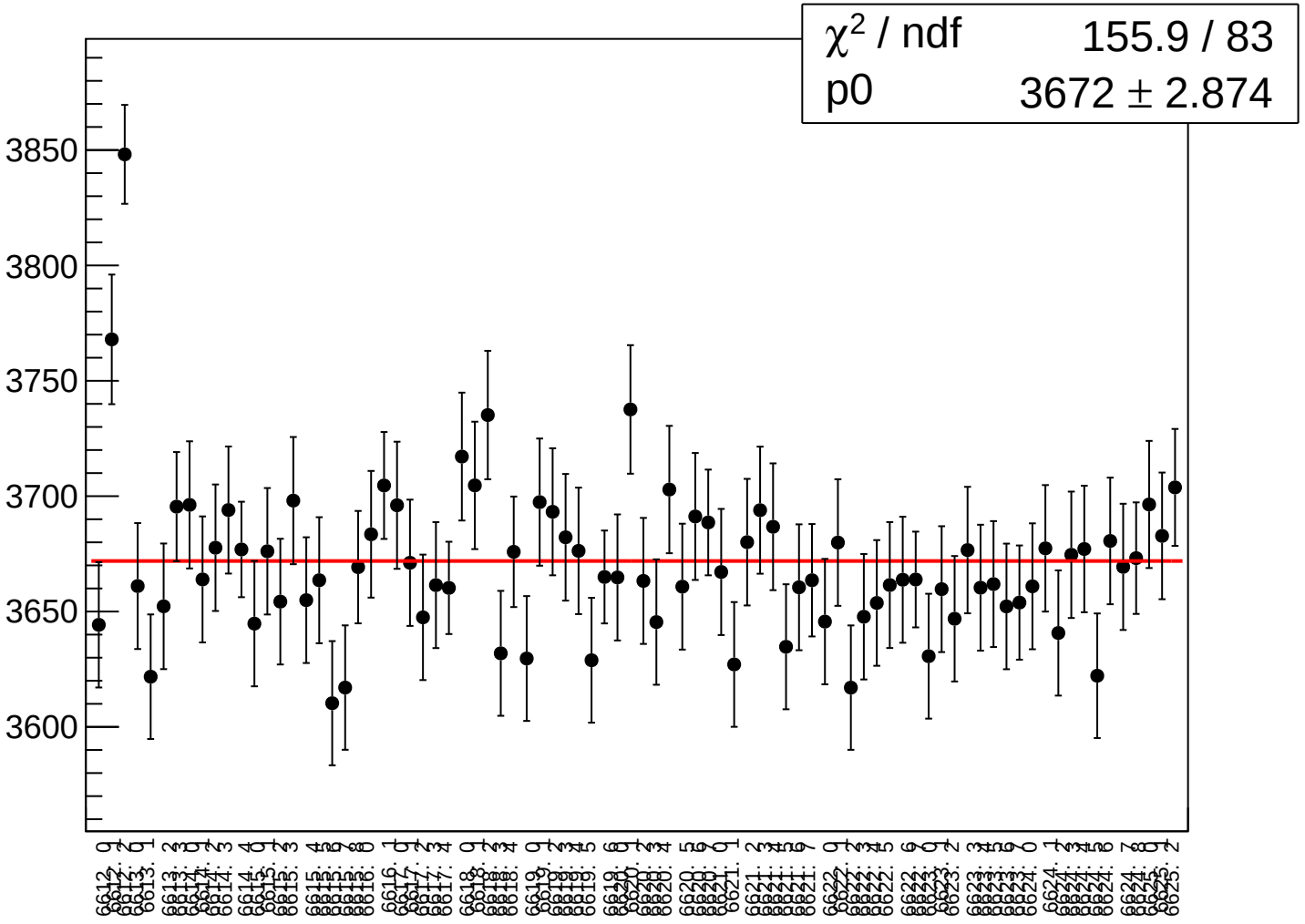

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 3153 / 83
p0 5412 ± 4.239
6400
6200
6000
5800
5600
5400
5200
5000

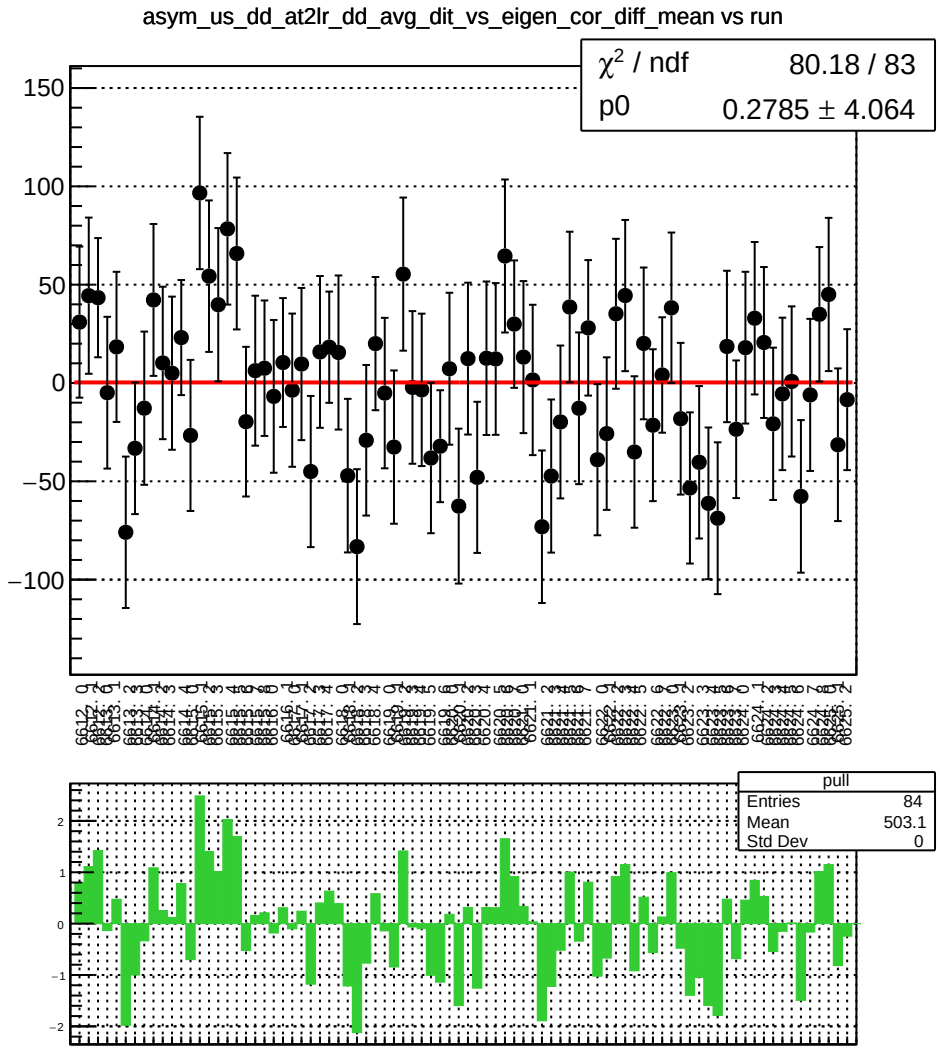

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 64.43 / 83
p0 7.183e−14 ± 1.289e−13
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 84
Mean 718.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.003068
Std Dev 0.8758
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

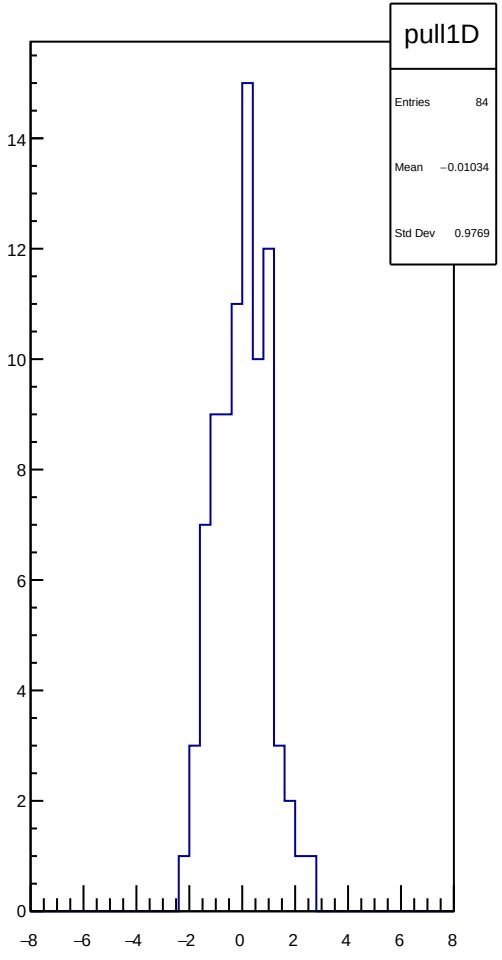

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.01e+06 / 83
p0 7.192e−11 ± 9.116e−14
3.5
3
2.5
2
1.5
1
0.5
0

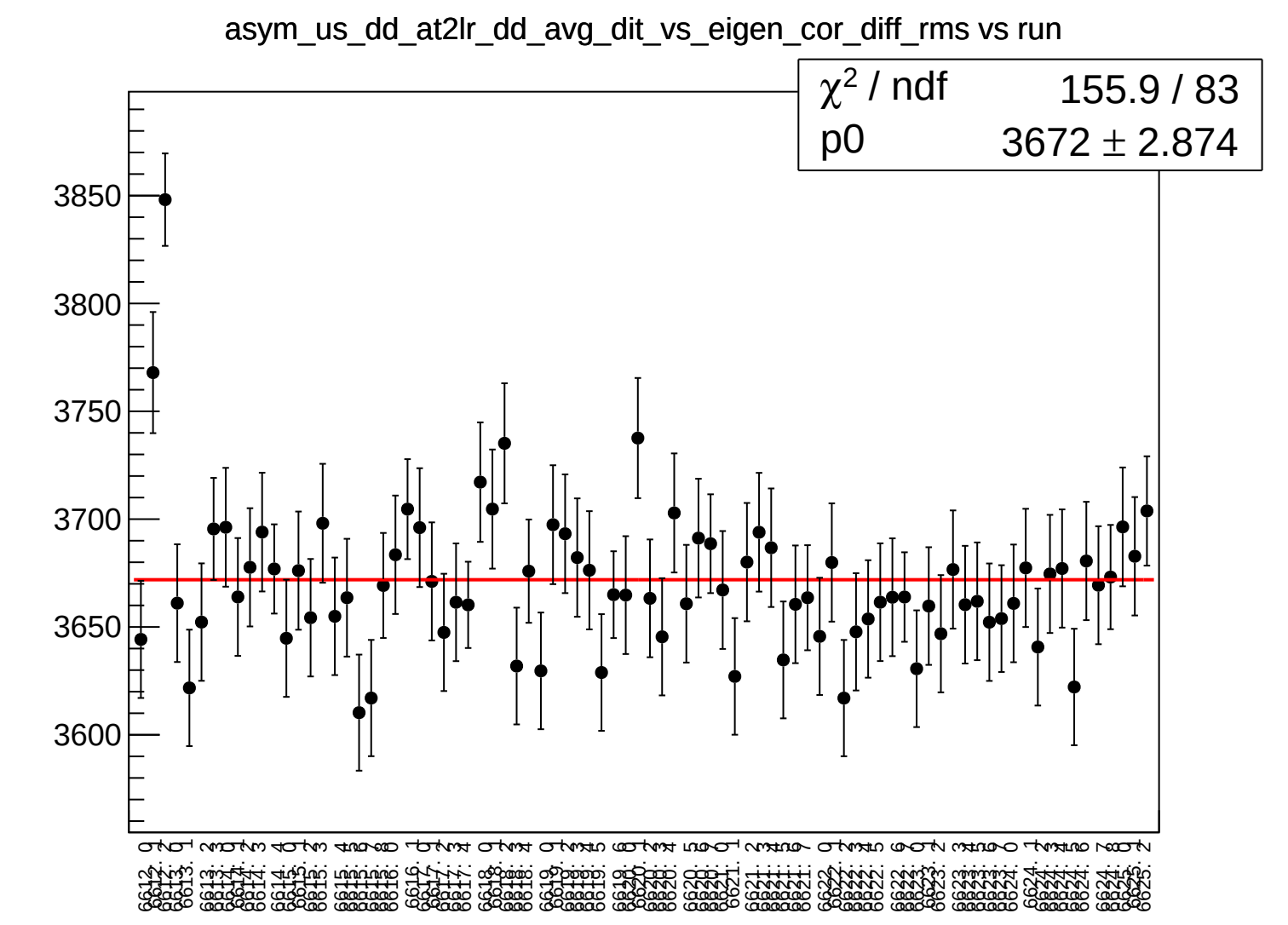

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.18 / 83
p0 0.2785 ± 4.064
150
100
50
0
−50
−100
pull
Entries 84
Mean 503.1
Std Dev 0
2
1
0
−1
−2

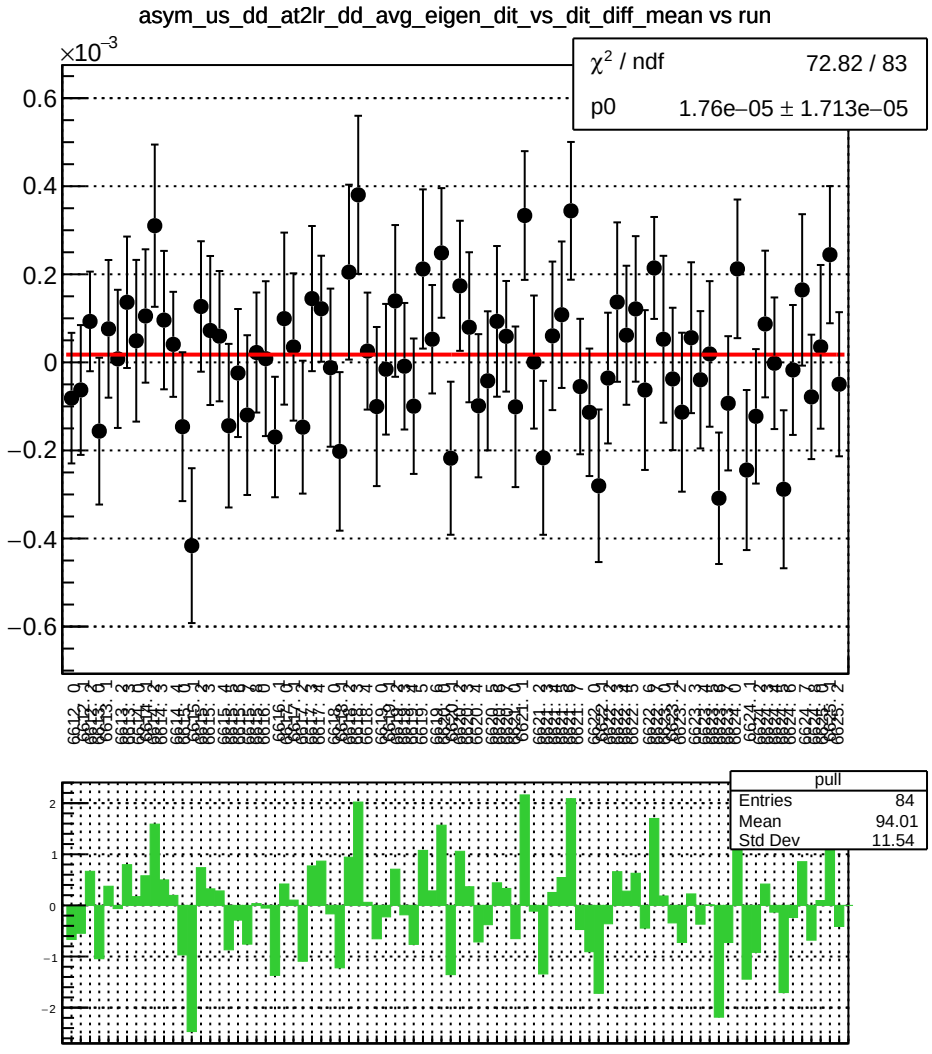

pull1D
Entries 84
Mean −0.01034
Std Dev 0.9769
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

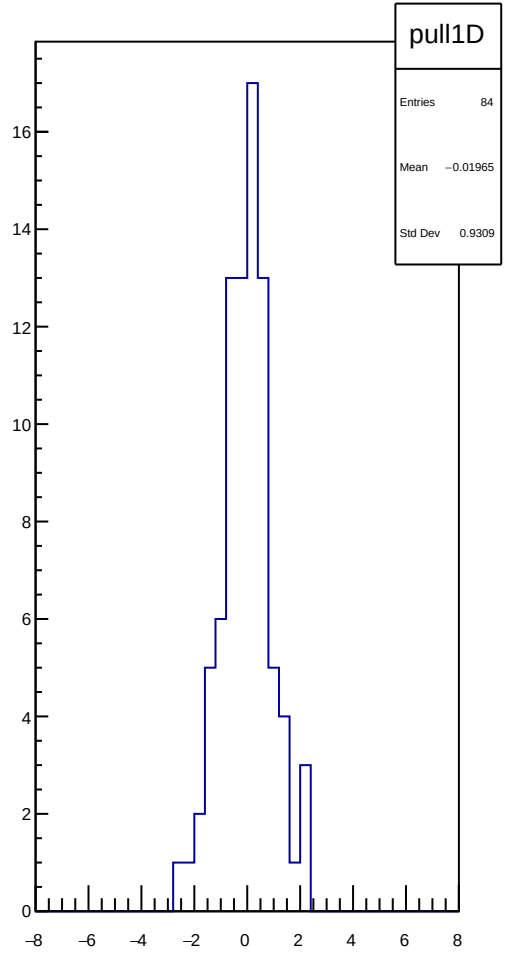

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 155.9 / 83
p0 3672 ± 2.874
3850
3800
3750
3700
3650
3600

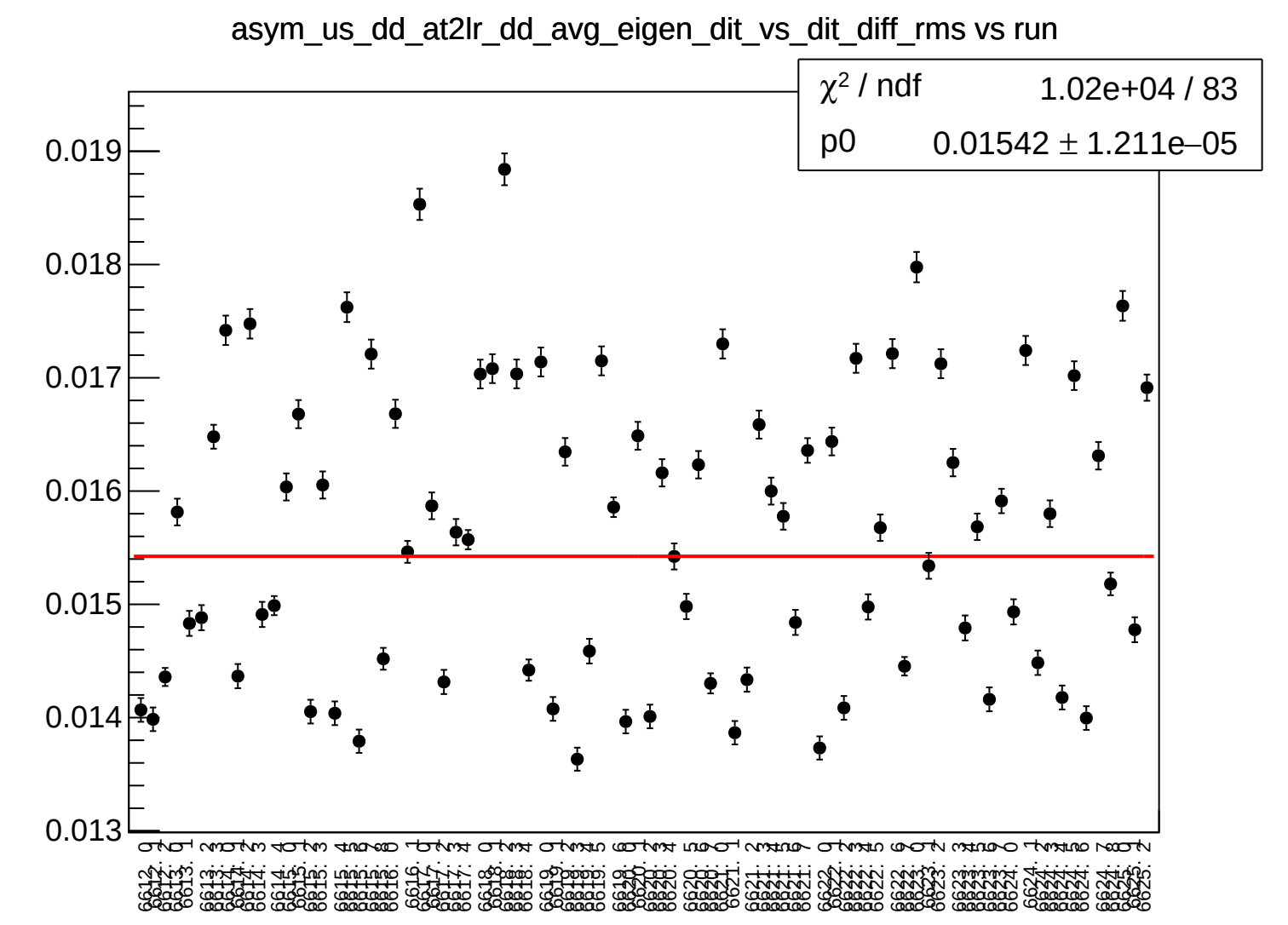

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.18 / 83
p0 0.2785 ± 4.064
150
100
50
0
−50
−100
pull
Entries 84
Mean 503.1
Std Dev 0
2
1
0
−1
−2

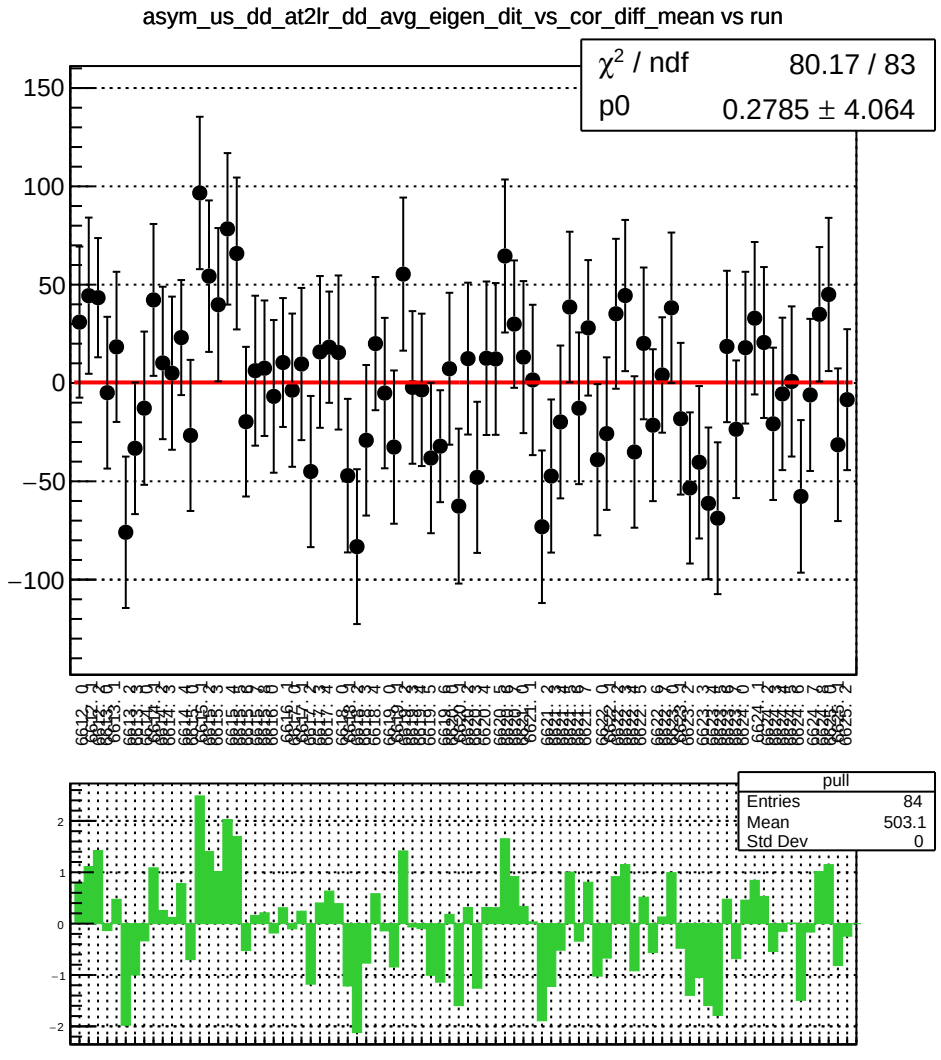

pull1D
Entries 84
Mean −0.01034
Std Dev 0.9769
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

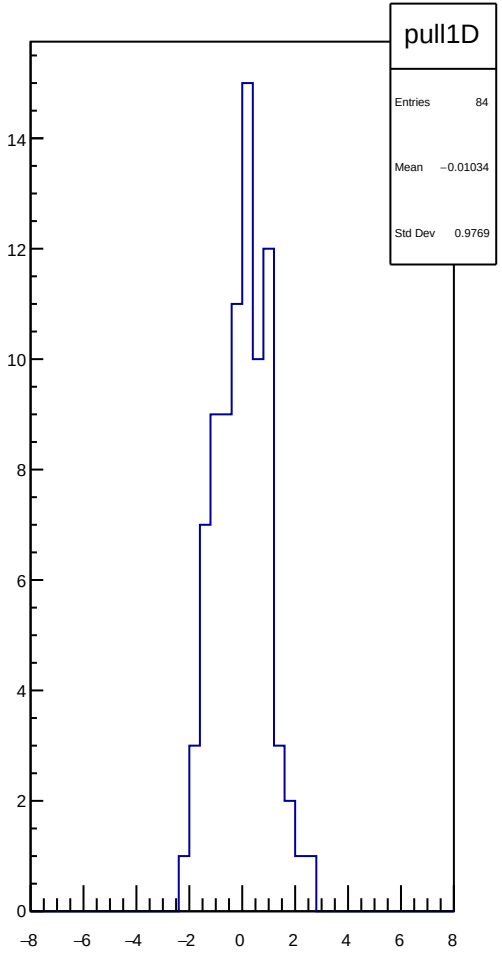

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 155.9 / 83
p0 3672 ± 2.874
3850
3800
3750
3700
3650
3600

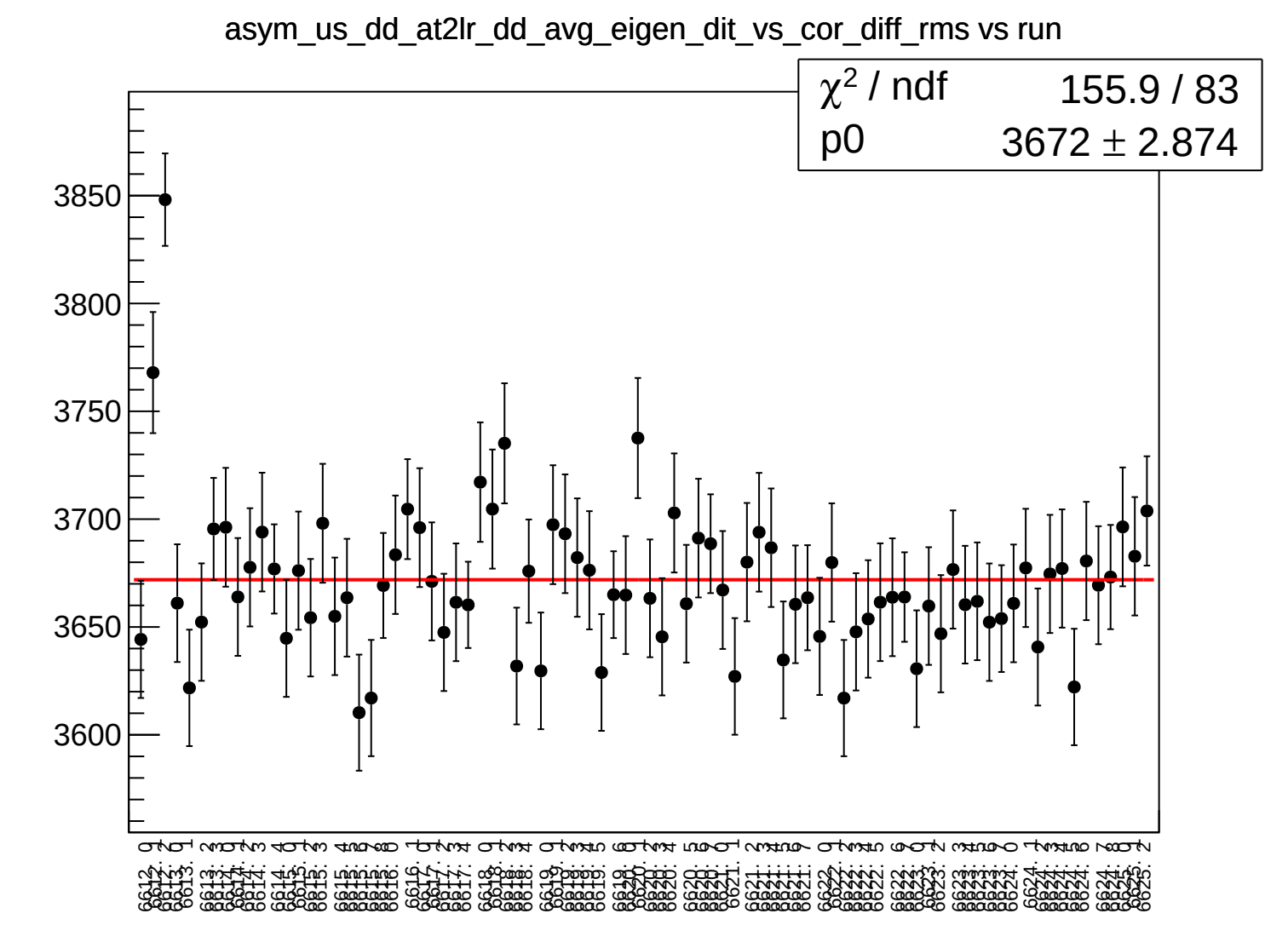

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 72.82 / 83
p0 1.76e−05 ± 1.713e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 84
Mean 94.01
Std Dev 11.54
2
1
0
−1
−2

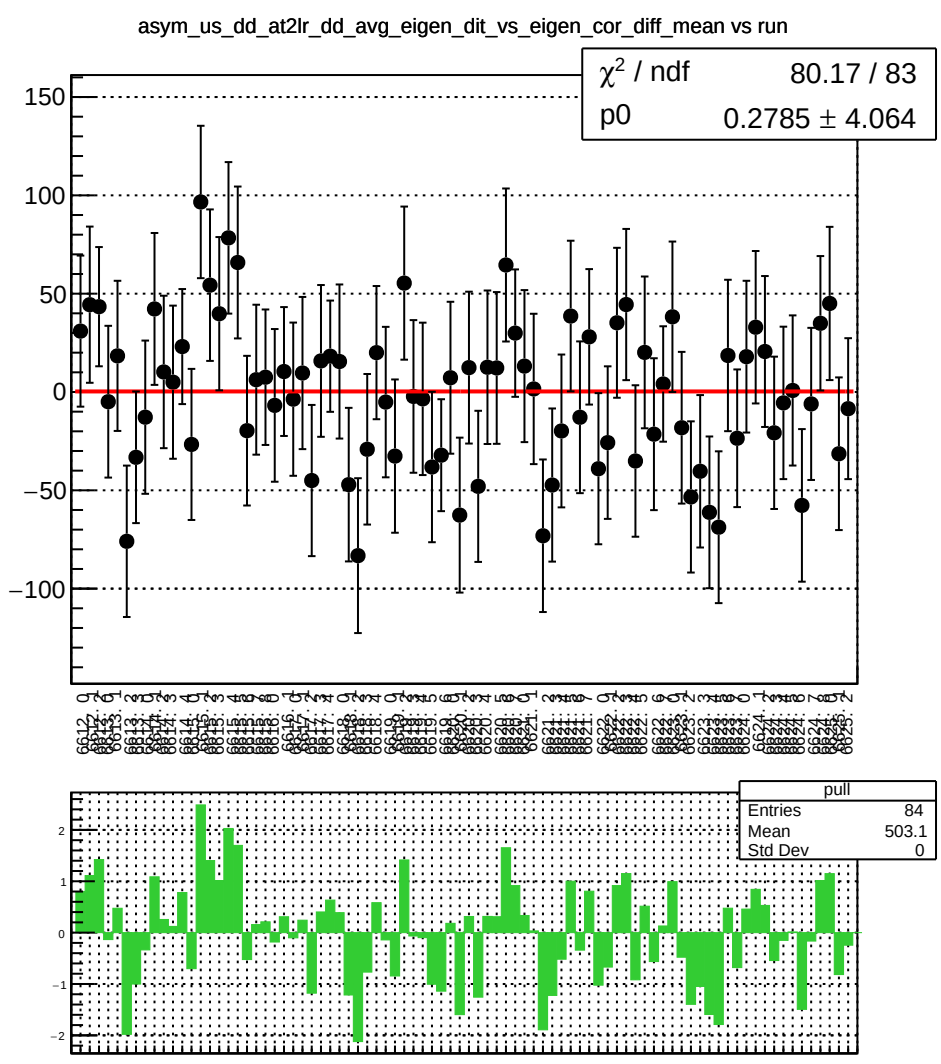

pull1D
Entries 84
Mean −0.01965
Std Dev 0.9309
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

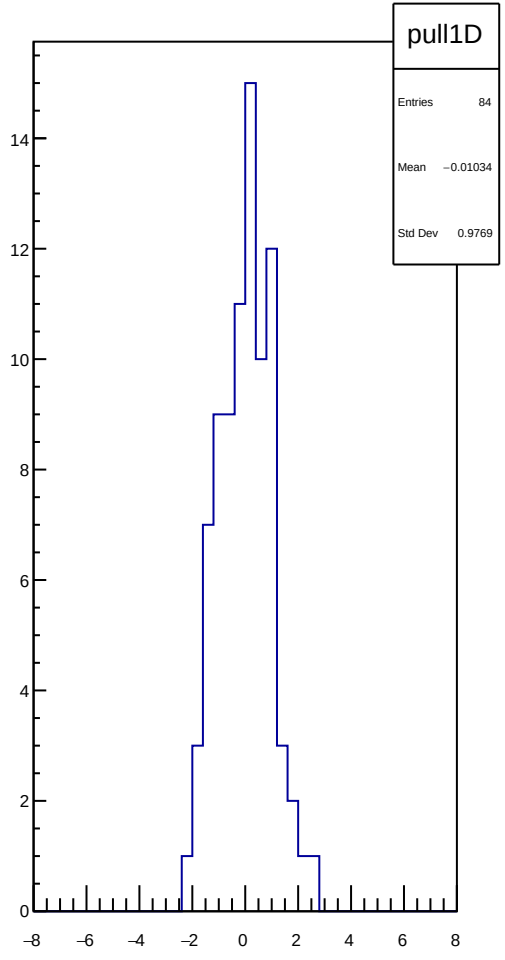

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.02e+04 / 83
p0 0.01542 ± 1.211e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013

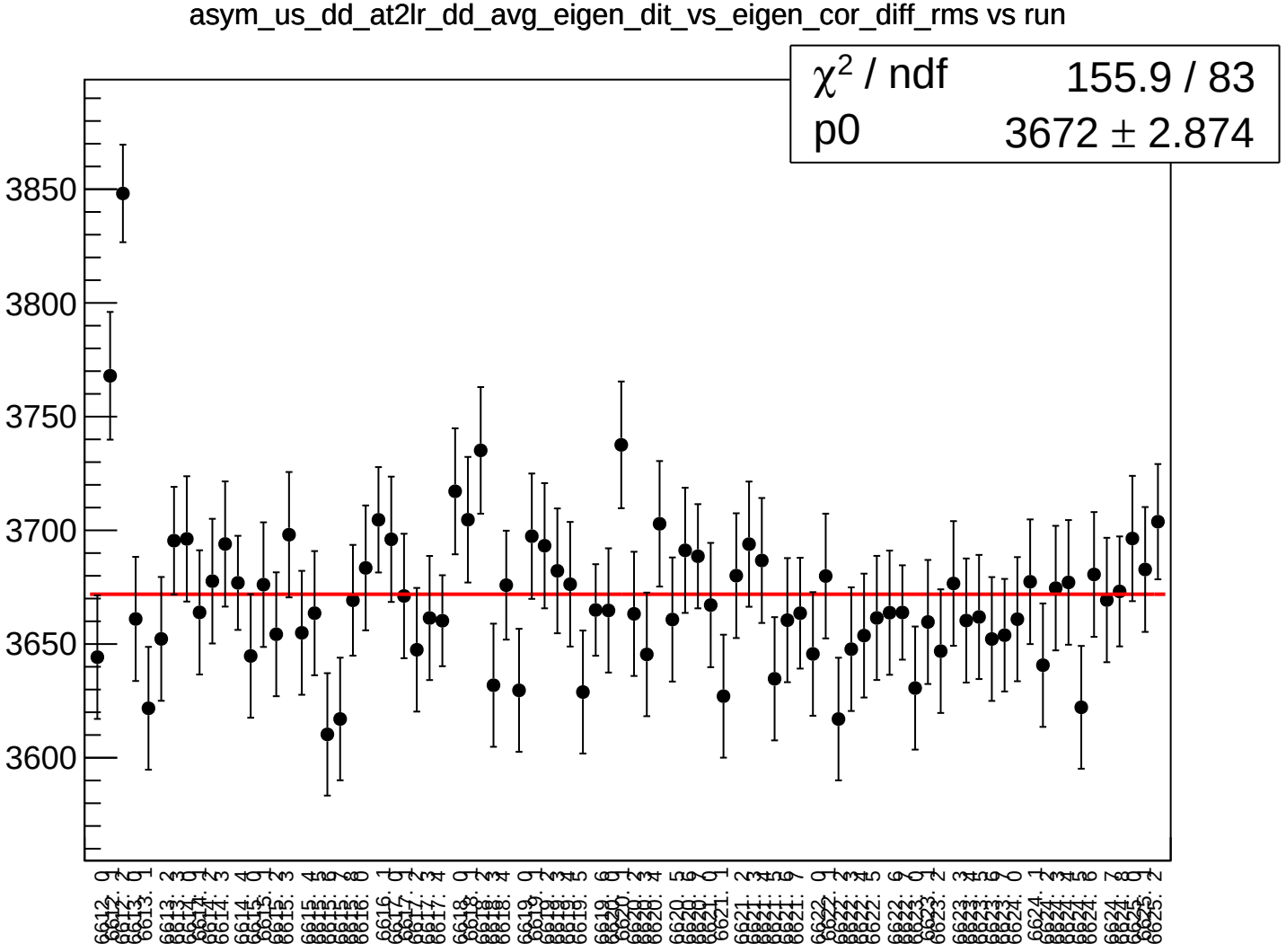

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.17 / 83
p0 0.2785 ± 4.064
150
100
50
0
−50
−100
pull
Entries 84
Mean 503.1
Std Dev 0
2
1
0
−1
−2

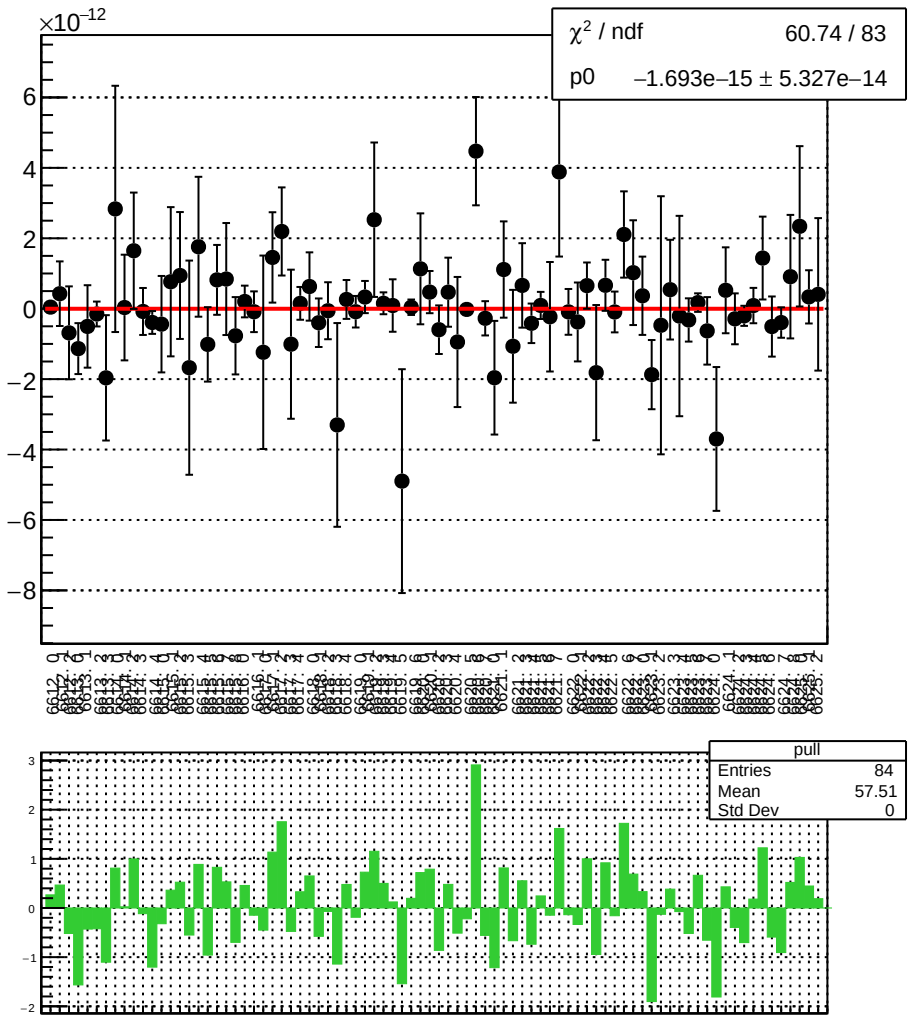

pull1D
Entries 84
Mean −0.01034
Std Dev 0.9769
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

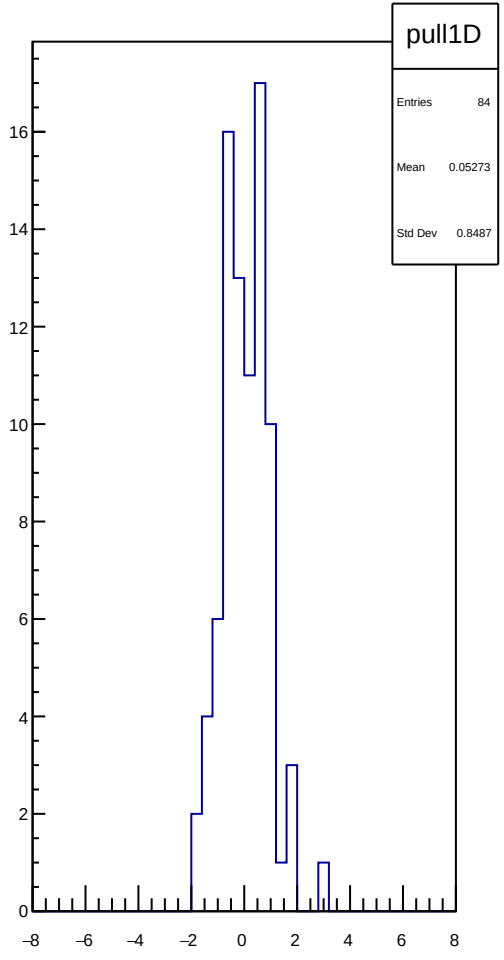

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 155.9 / 83
p0 3672 ± 2.874
3850
3800
3750
3700
3650
3600

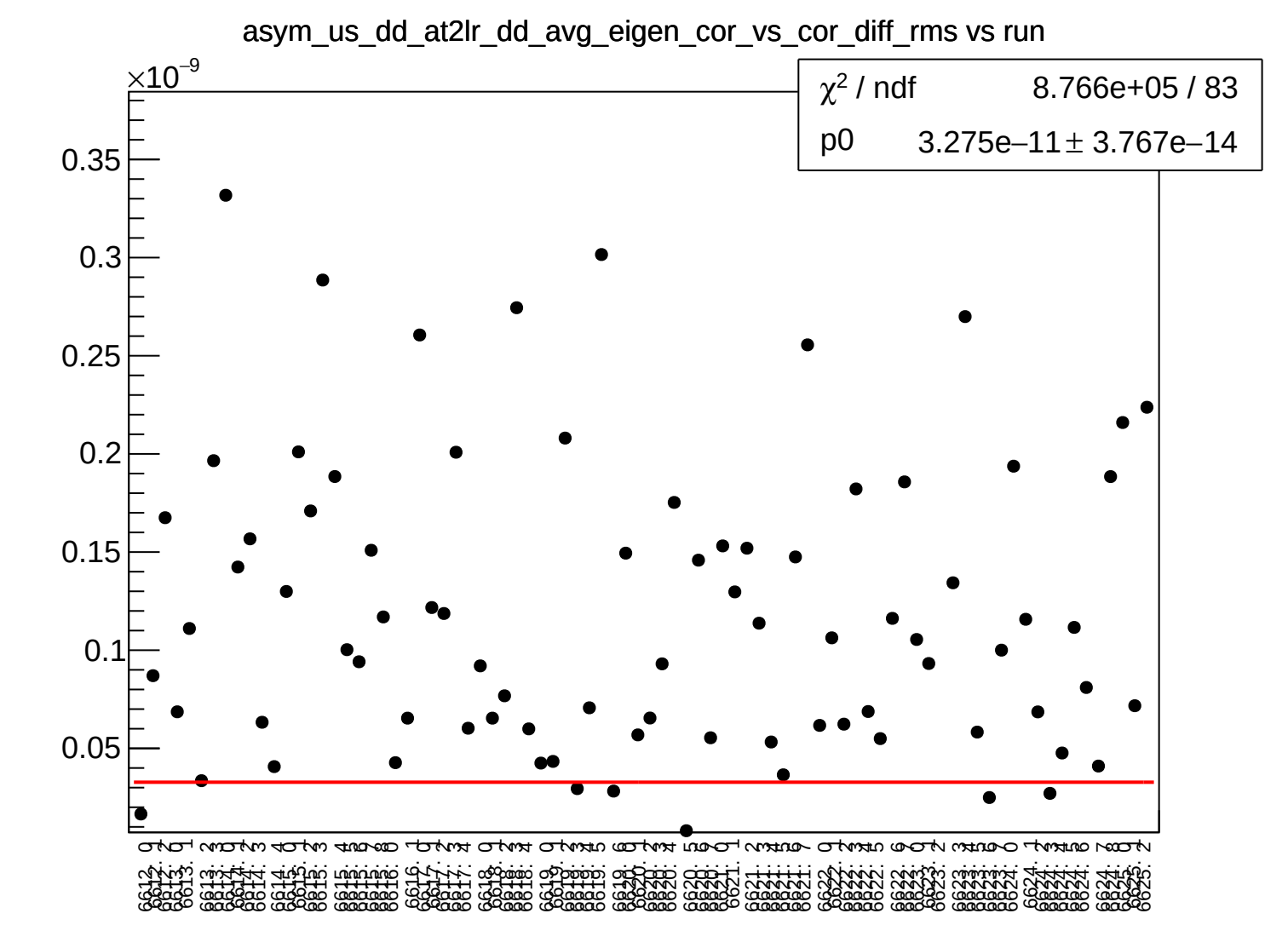

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.17 / 83
p0 0.2785 ± 4.064
150
100
50
0
−50
−100
pull
Entries 84
Mean 503.1
Std Dev 0
2
1
0
−1
−2

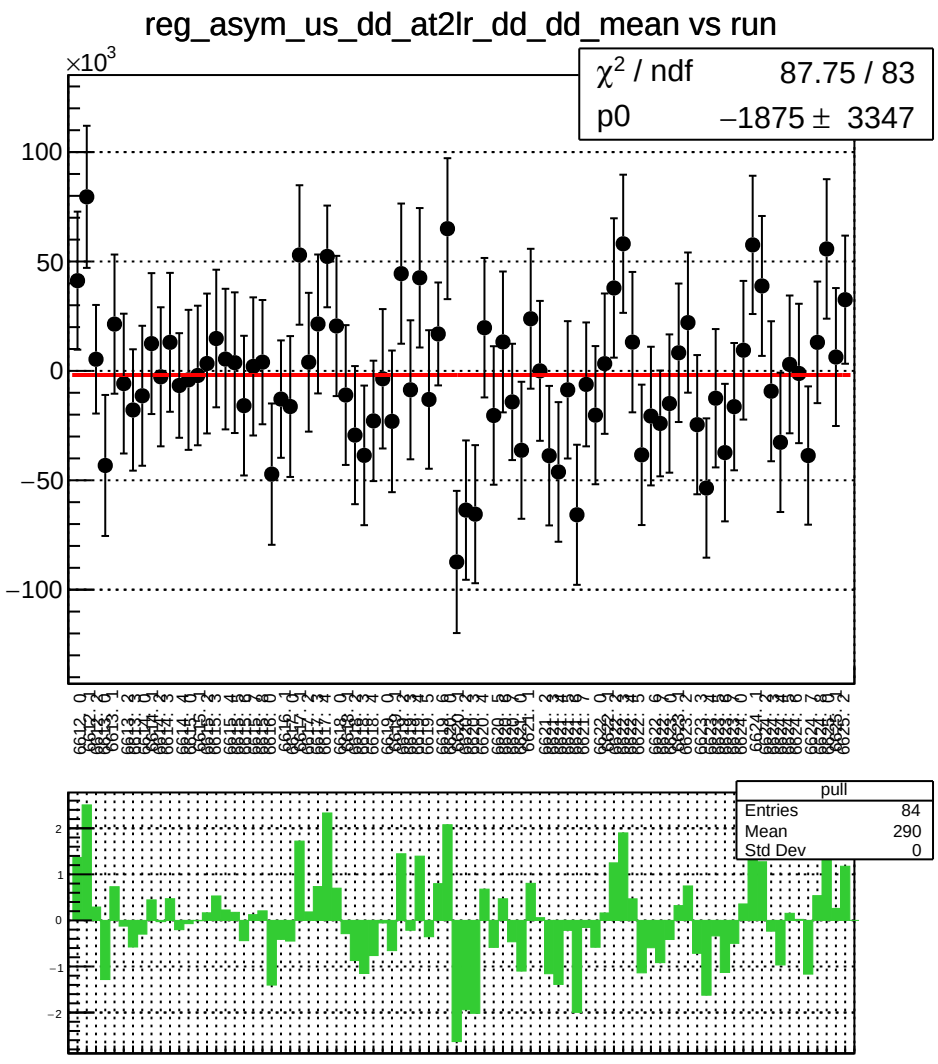

pull1D
Entries 84
Mean −0.01034
Std Dev 0.9769
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

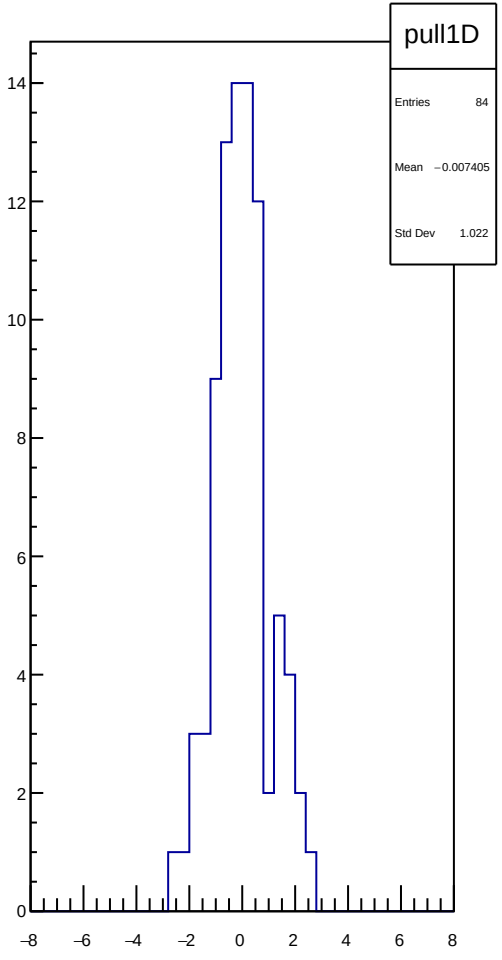

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 155.9 / 83
p0 3672 ± 2.874
3850
3800
3750
3700
3650
3600

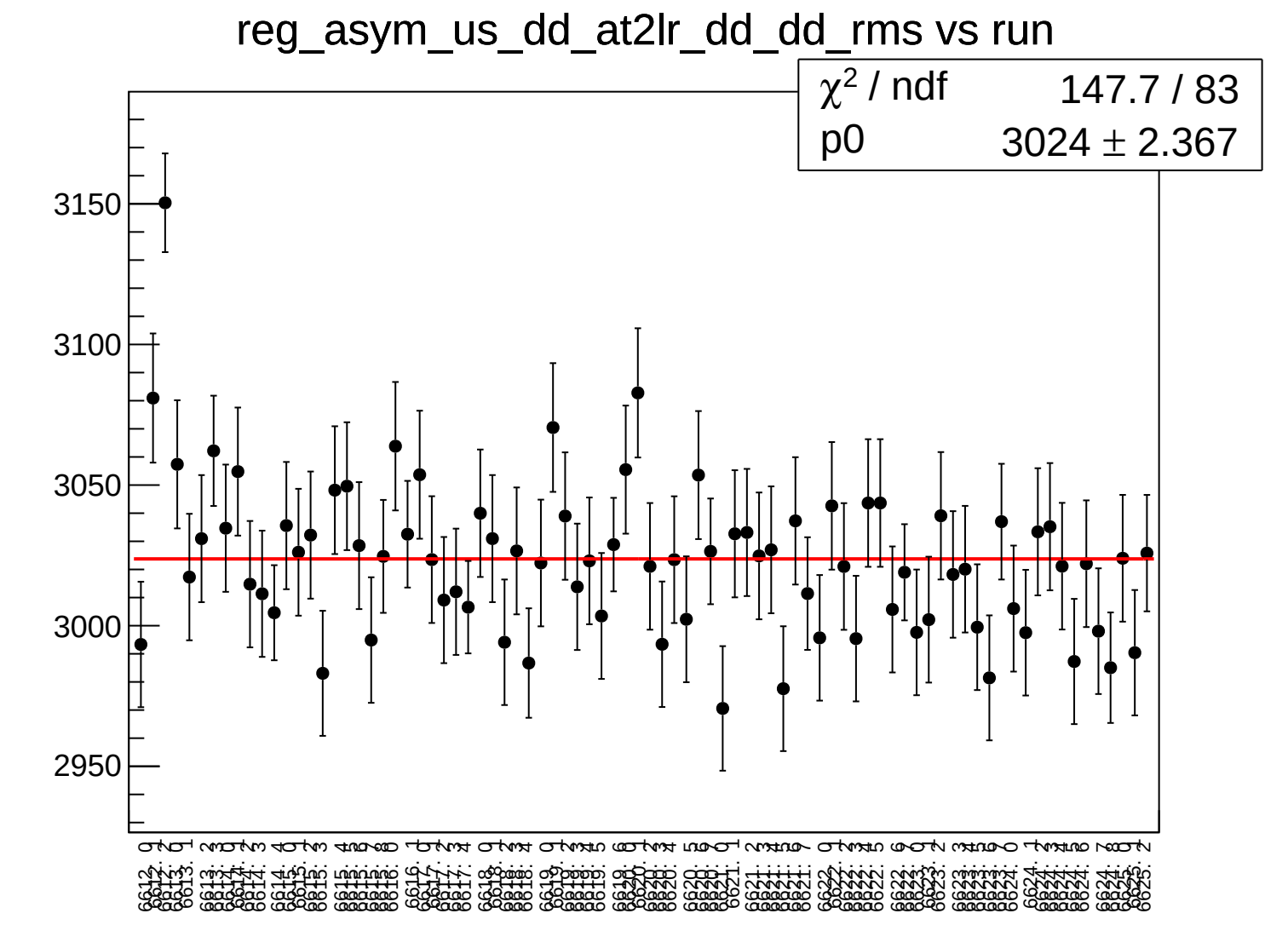

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 60.74 / 83
p0 −1.693e−15 ± 5.327e−14
pull
Entries 84
Mean 57.51
Std Dev 0

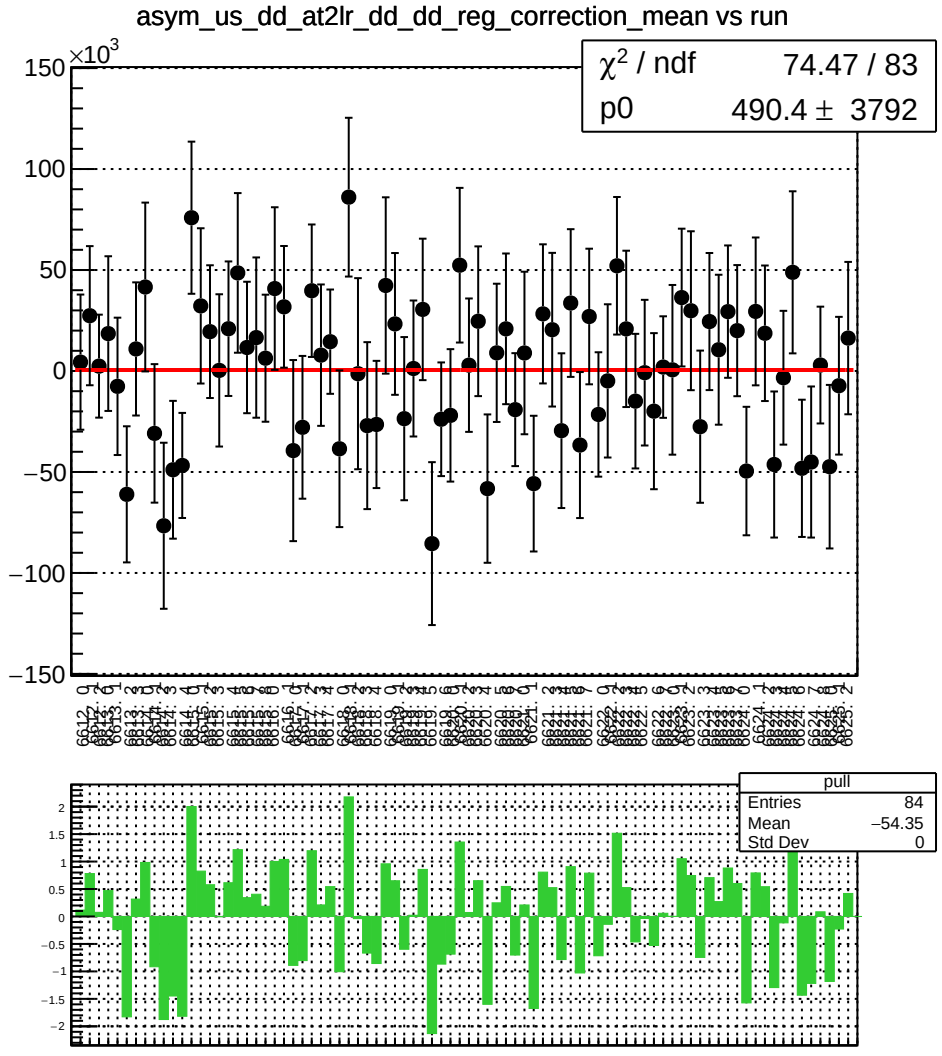

pull1D
Entries 84
Mean 0.05273
Std Dev 0.8487

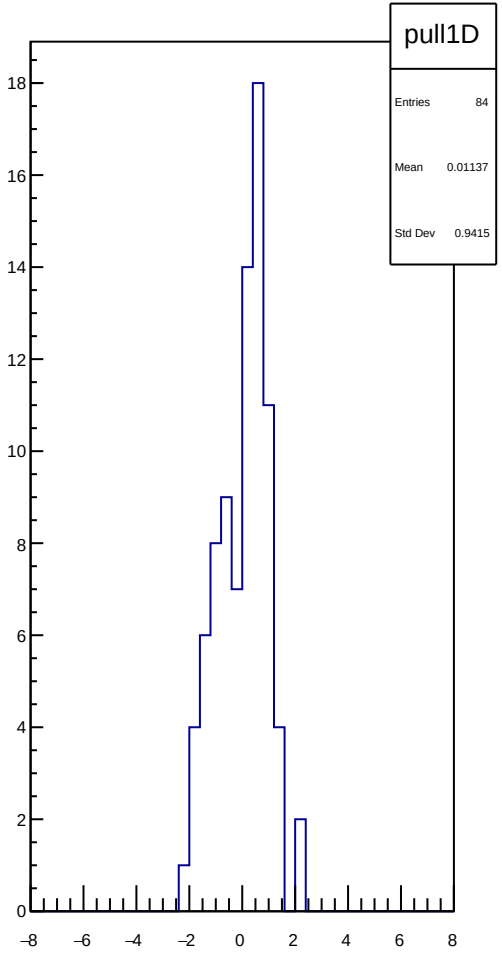

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.766e+05 / 83
p0 3.275e−11 ± 3.767e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

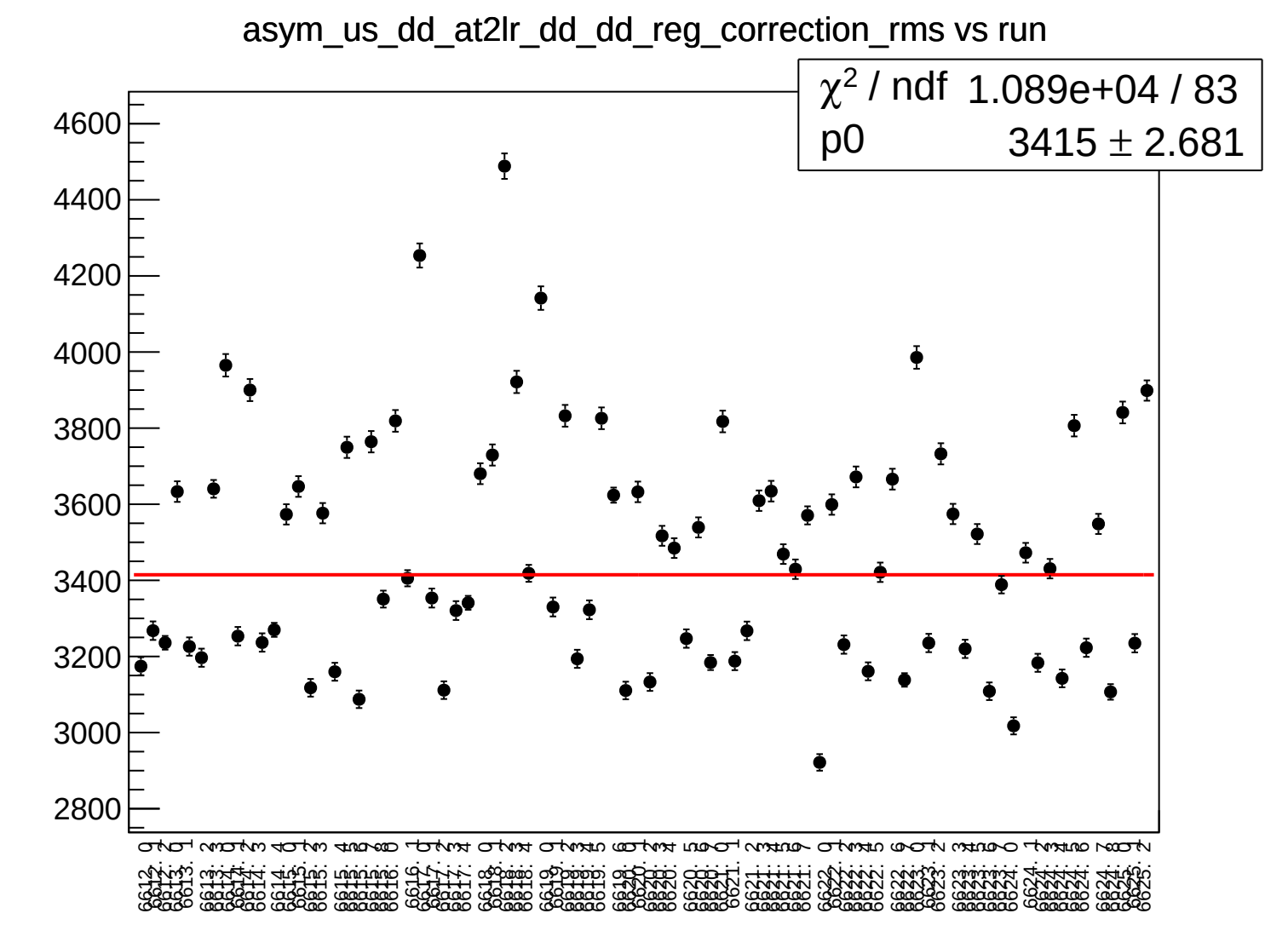

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 87.75 / 83
p0 −1875 ± 3347
×10³
pull
Entries 84
Mean 290
Std Dev 0

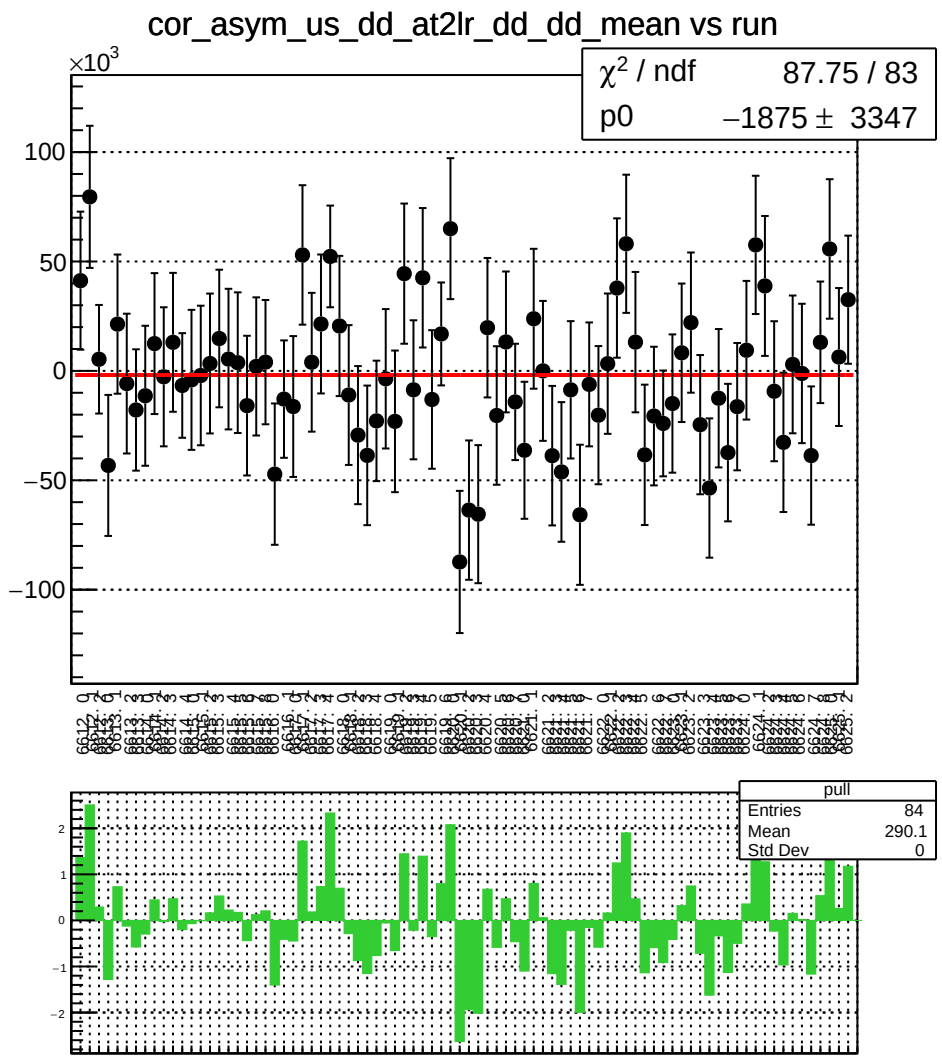

pull1D
Entries 84
Mean −0.007405
Std Dev 1.022

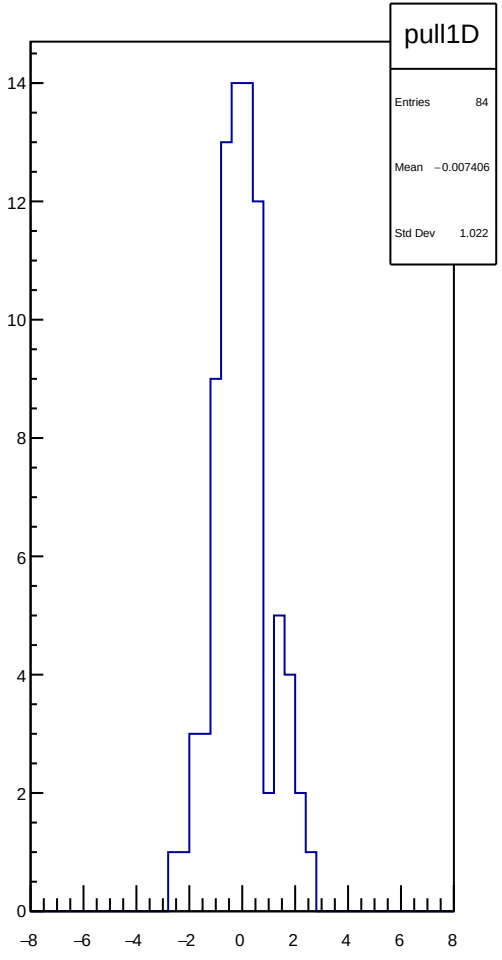

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 147.7 / 83
p0 3024 ± 2.367
3150
3100
3050
3000
2950

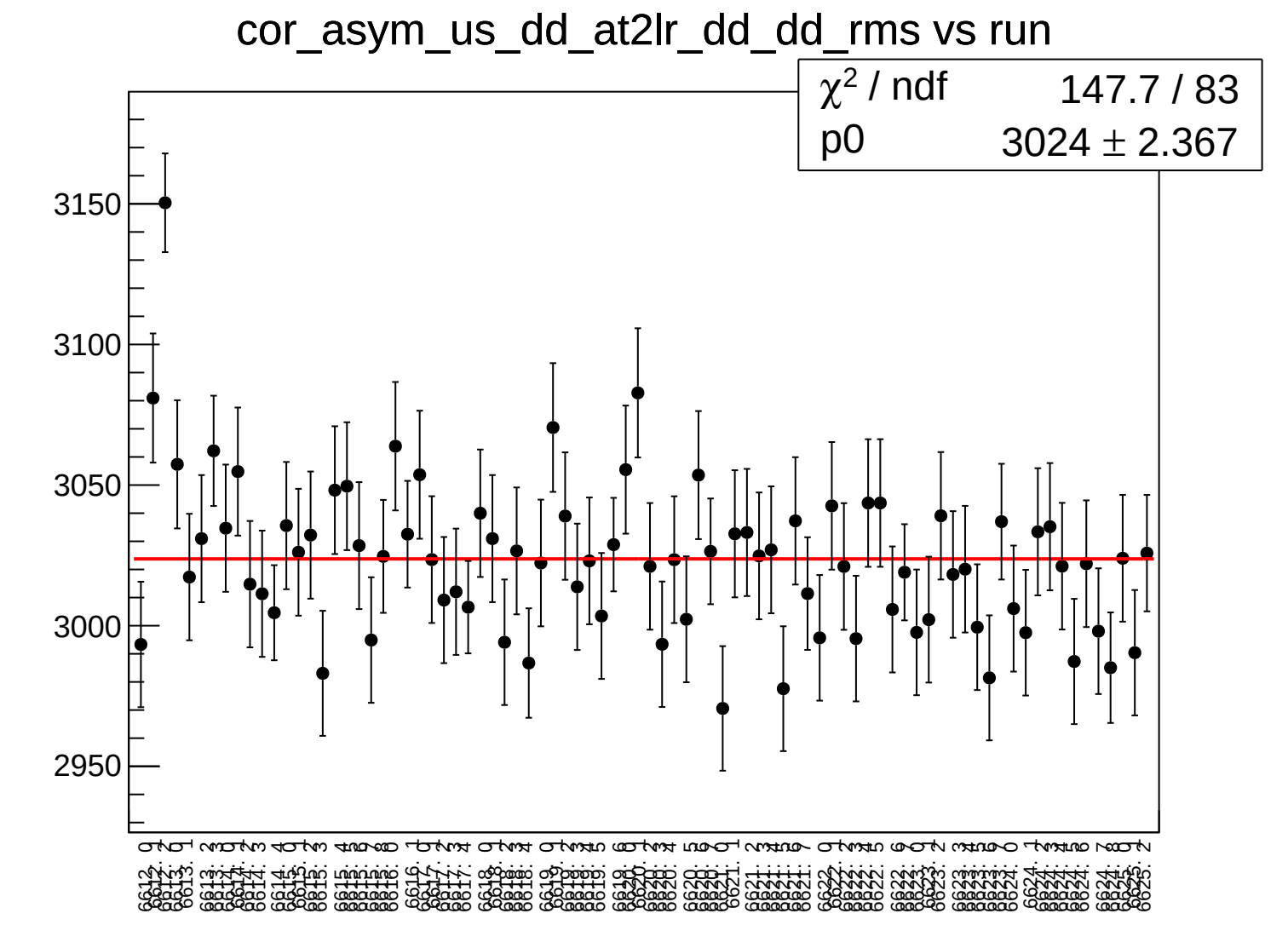

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 74.47 / 83
p0 490.4 ± 3792
×10³
pull
Entries 84
Mean −54.35
Std Dev 0

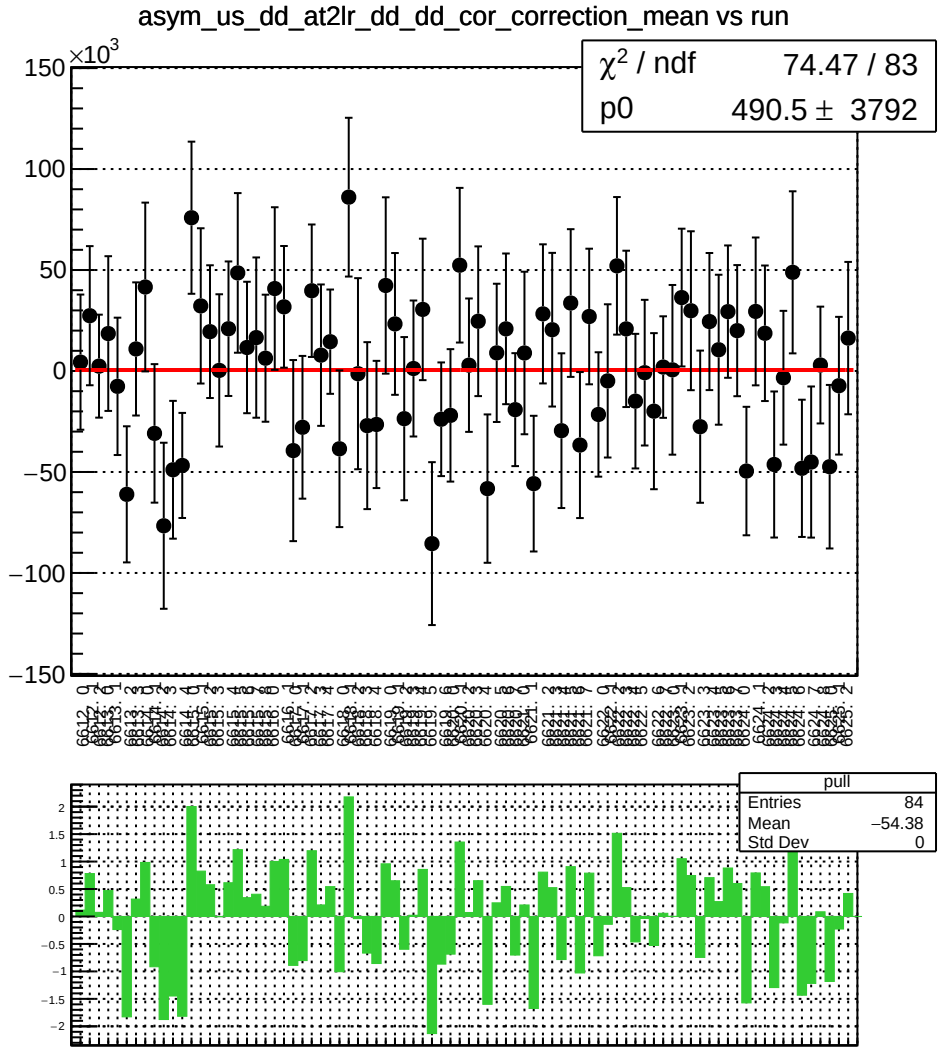

pull1D
Entries 84
Mean 0.01137
Std Dev 0.9415

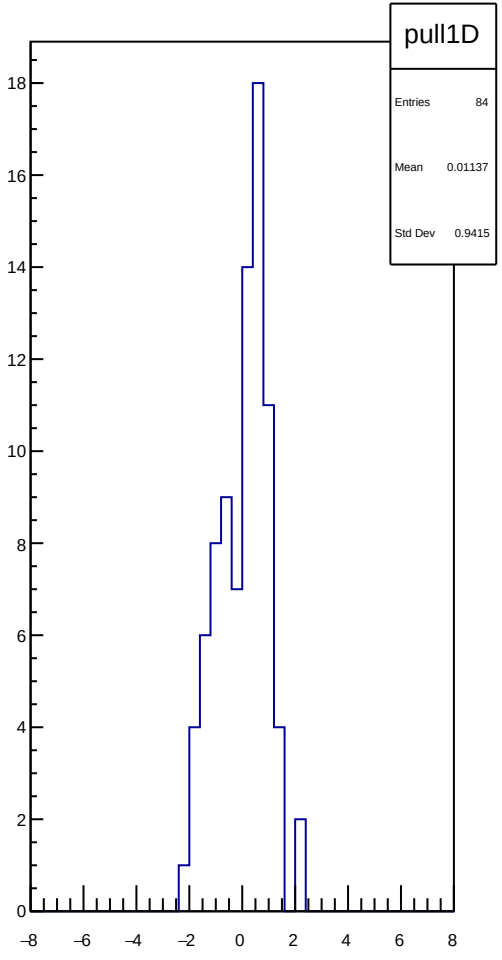

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.089e+04 / 83
p0 3415 ± 2.681
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

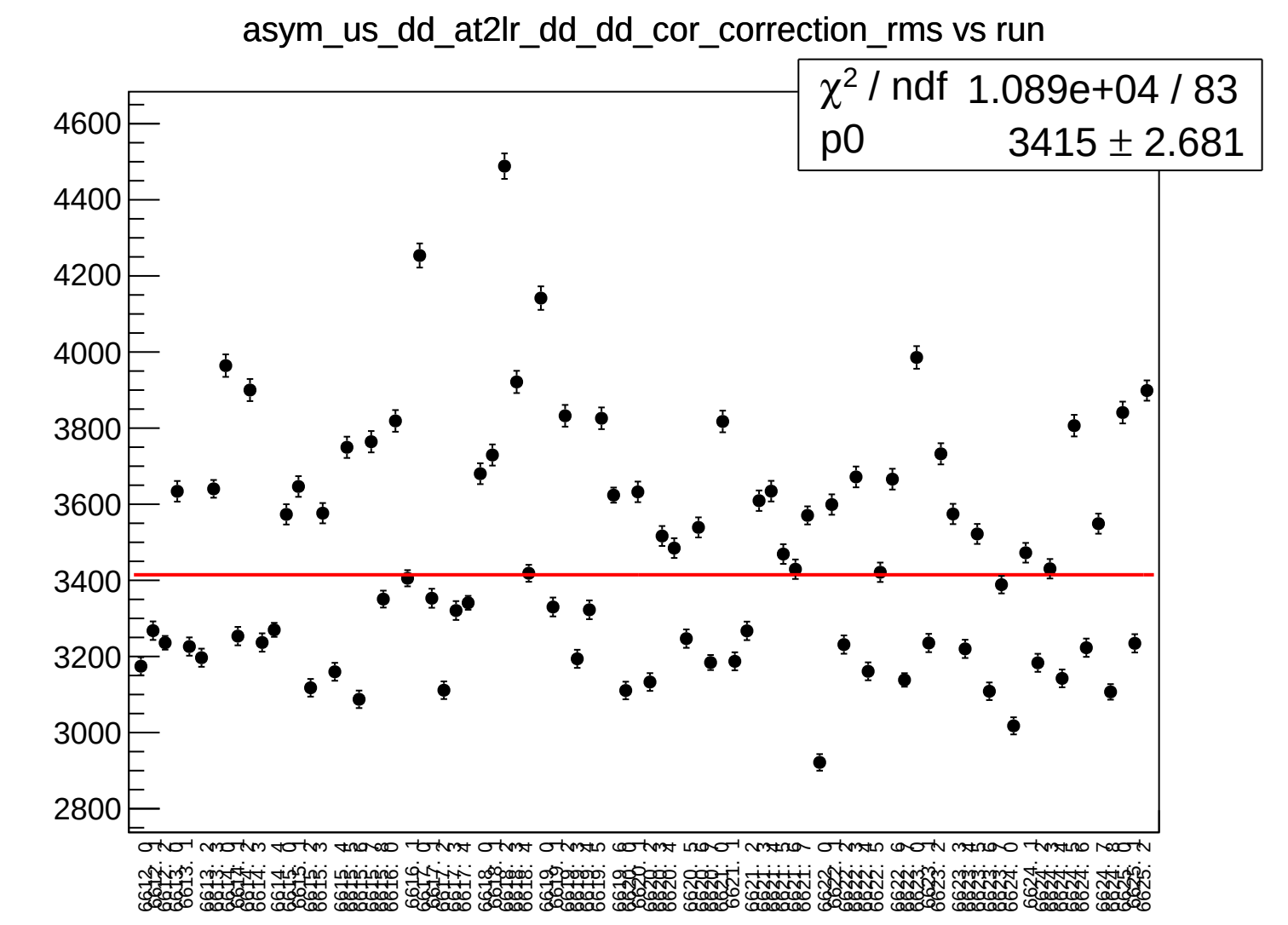

cor_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ^2 / ndf 87.75 / 83
p0 −1875 ± 3347
100
50
0
−50
−100
pull
Entries 84
Mean 290.1
Std Dev 0
2
1
0
−1
−2

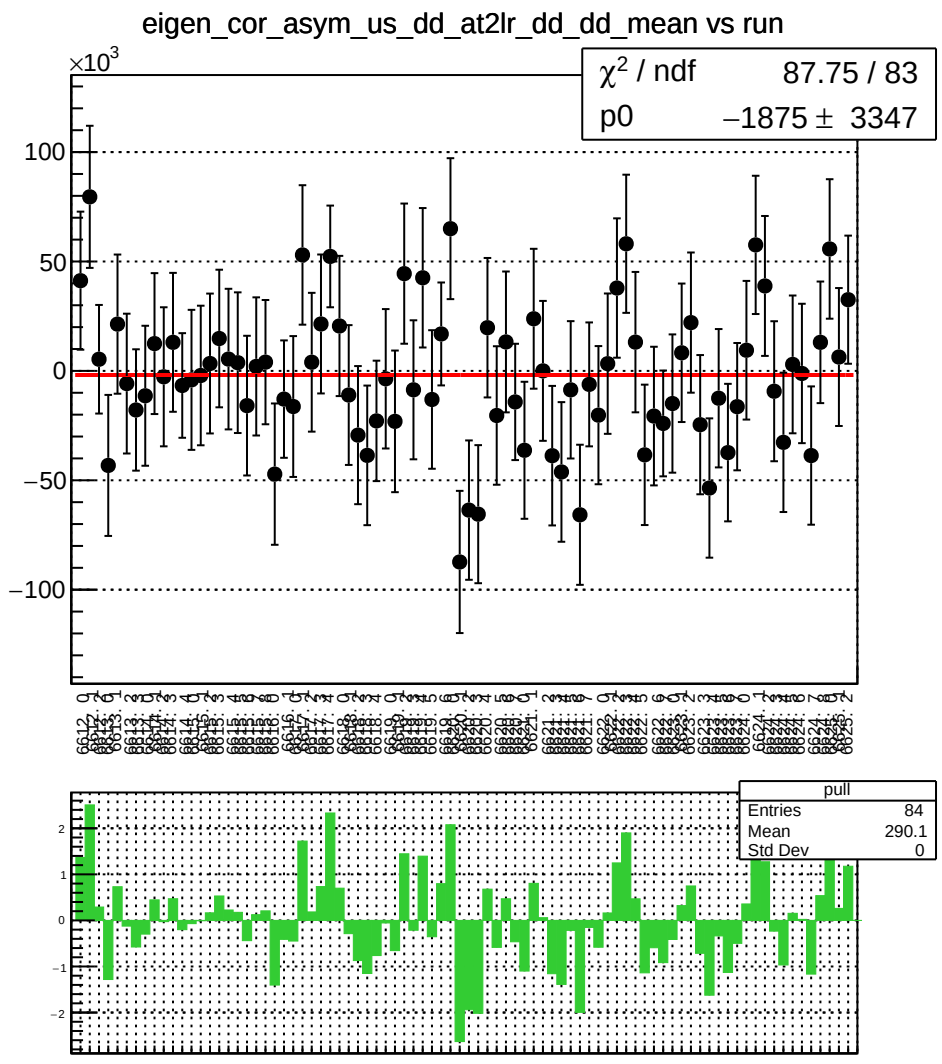

pull1D
Entries 84
Mean −0.007406
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

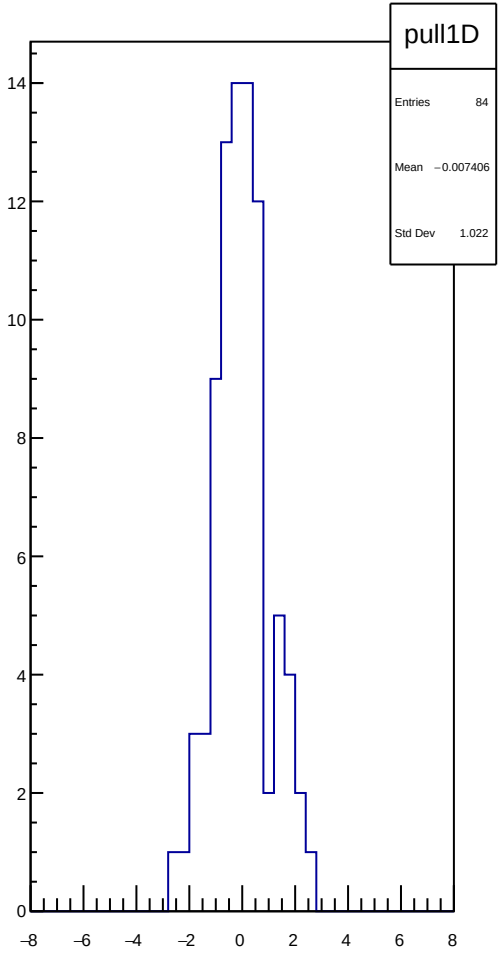

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 147.7 / 83
p0 3024 ± 2.367
3150
3100
3050
3000
2950

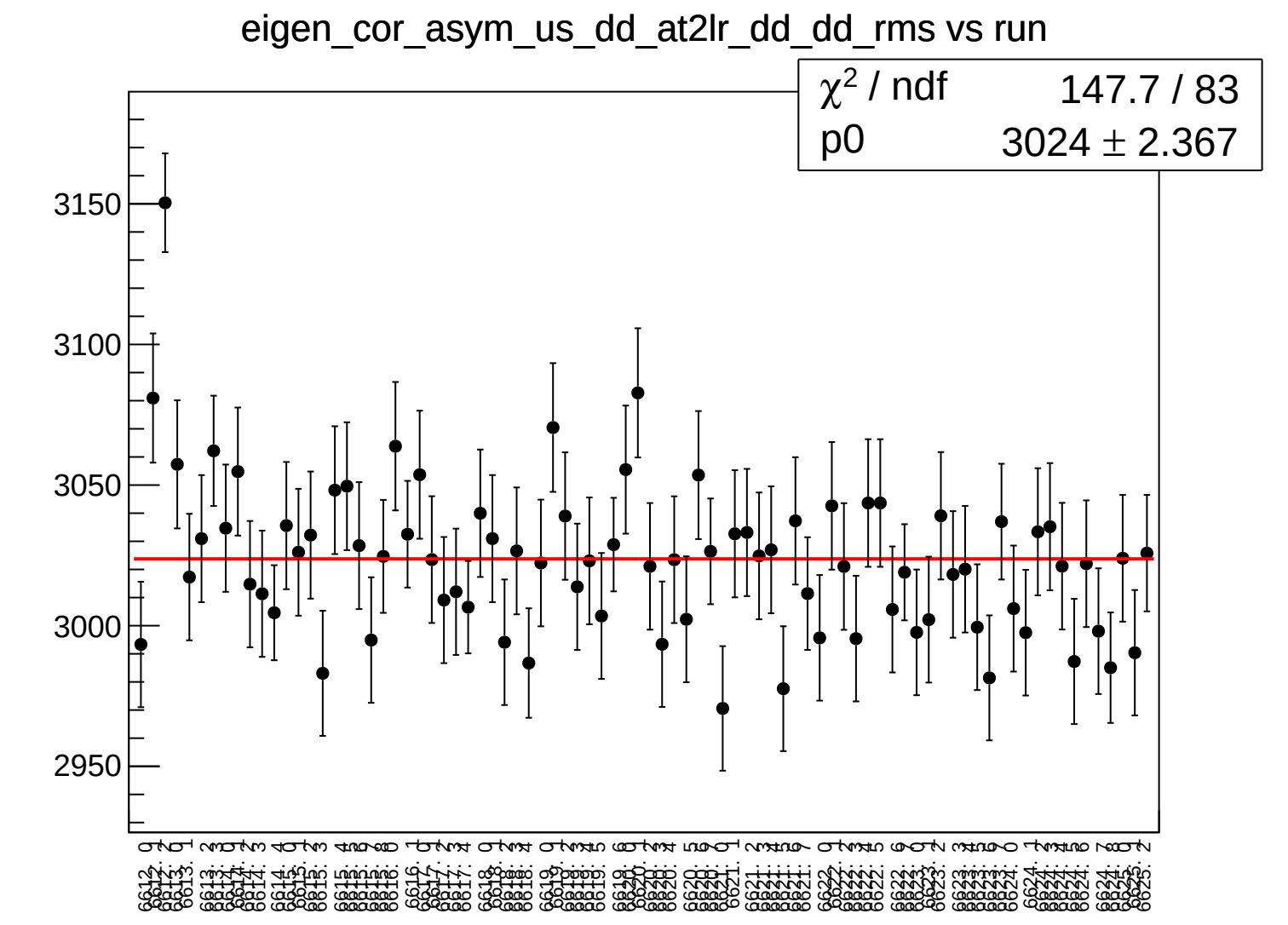

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 74.47 / 83
p0 490.5 ± 3792
×10³
pull
Entries 84
Mean −54.38
Std Dev 0

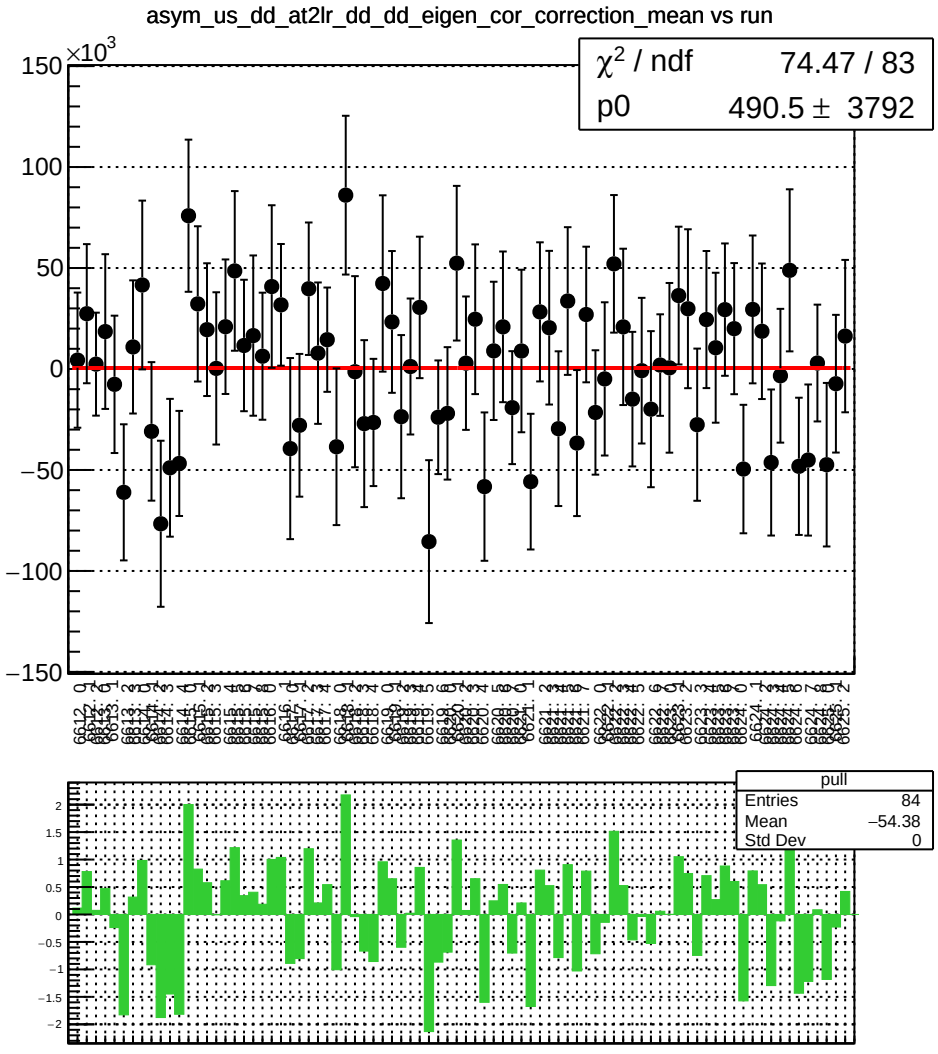

pull1D
Entries 84
Mean 0.01137
Std Dev 0.9415

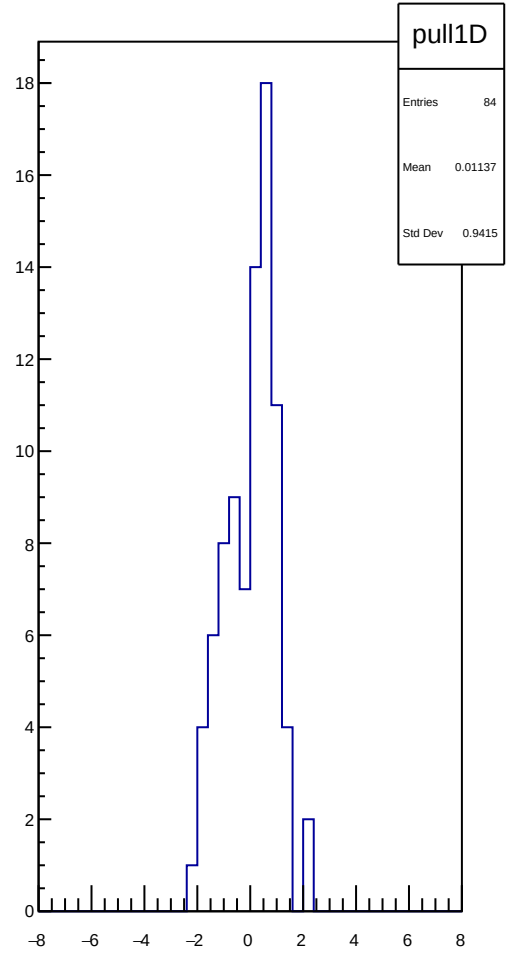

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.089e+04 / 83
p0 3415 ± 2.681
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

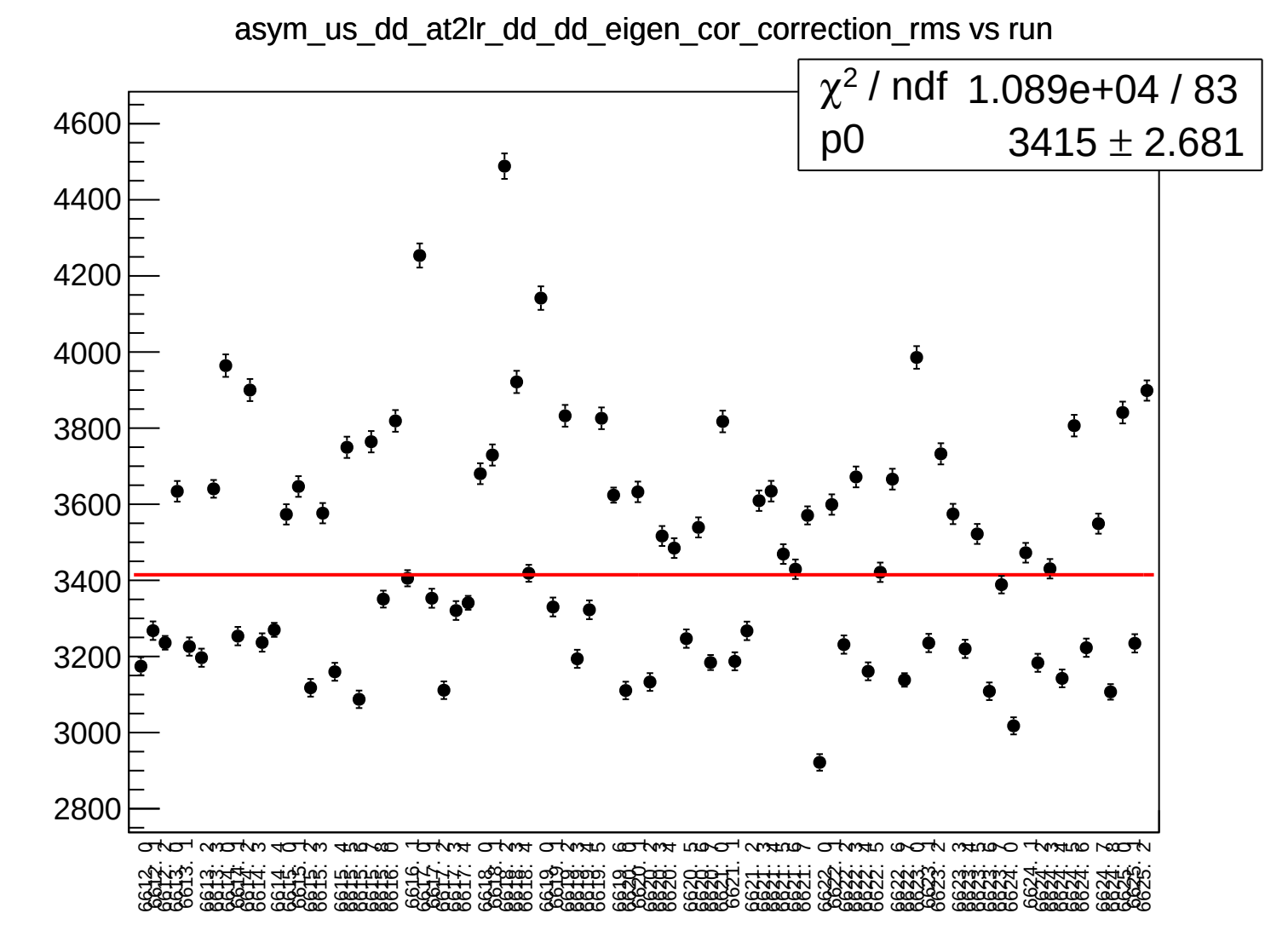

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 87.75 / 83
p0 −1875 ± 3347
×10³
pull
Entries 84
Mean 290.1
Std Dev 0

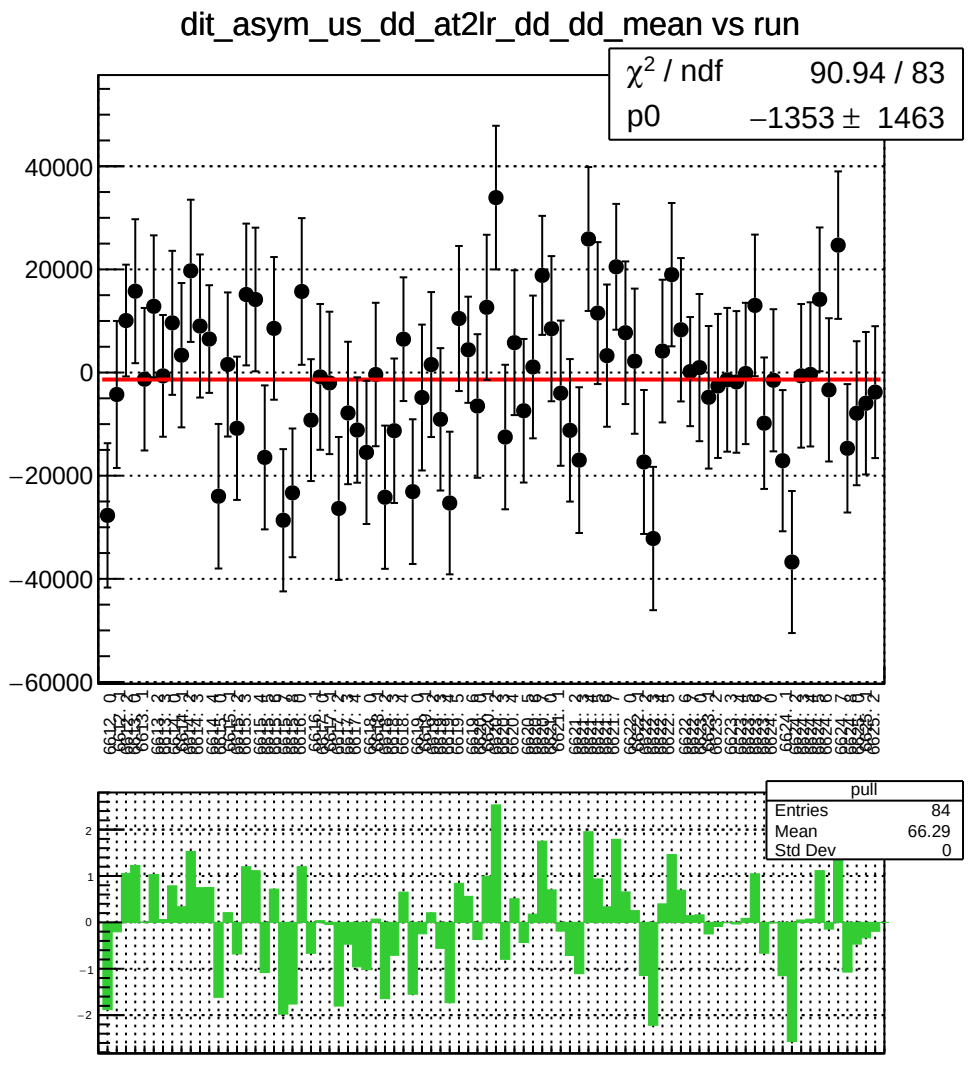

pull1D
Entries 84
Mean −0.007406
Std Dev 1.022

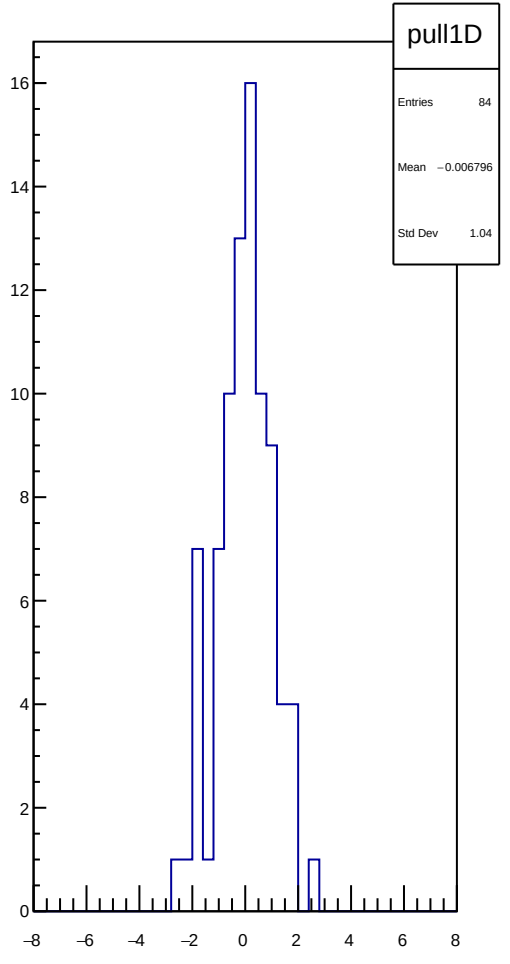

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 147.7 / 83
p0 3024 ± 2.367
3150
3100
3050
3000
2950

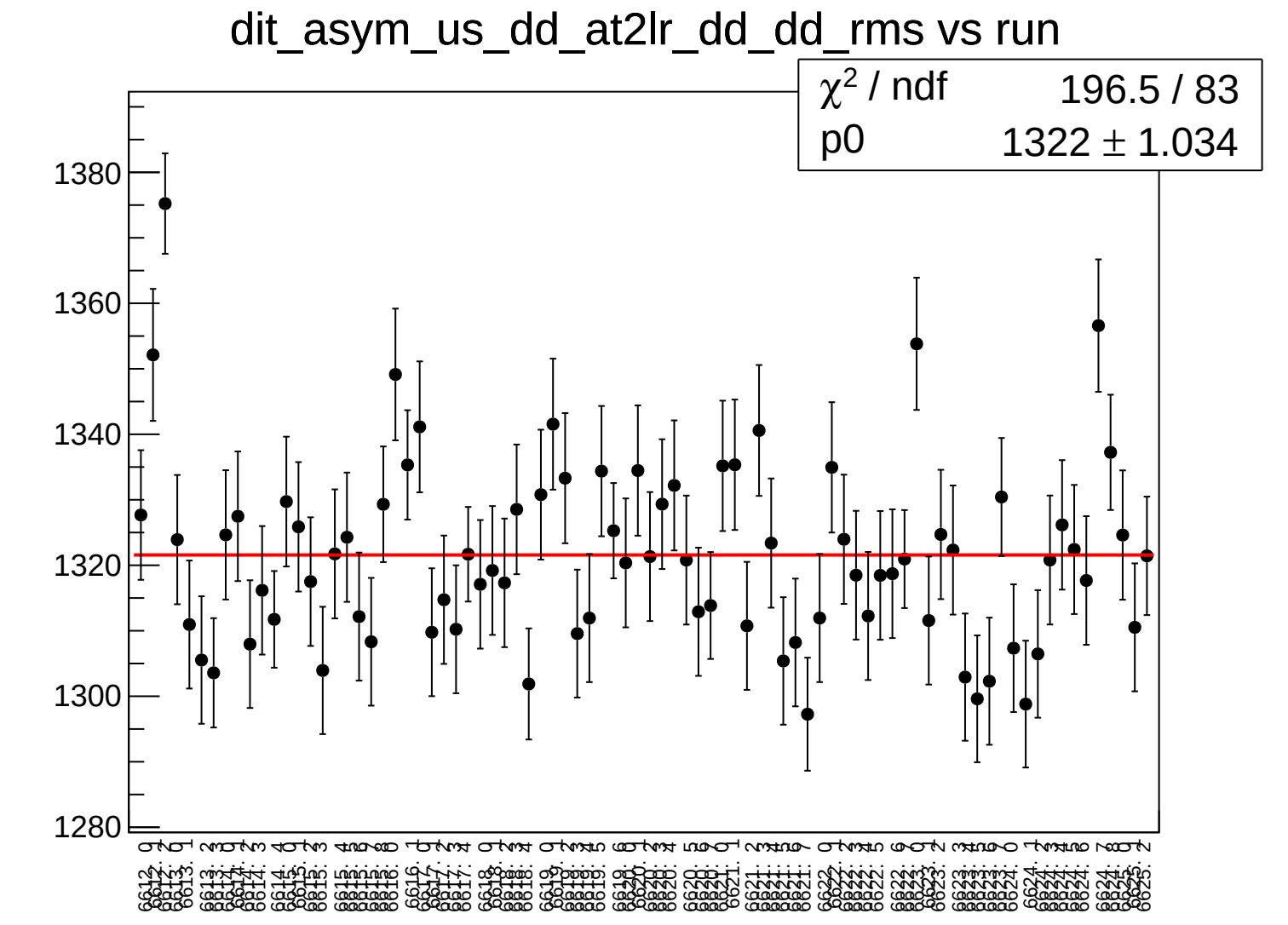

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.47 / 83
p0 490.5 ± 3792
×10³
pull
Entries 84
Mean −54.38
Std Dev 0

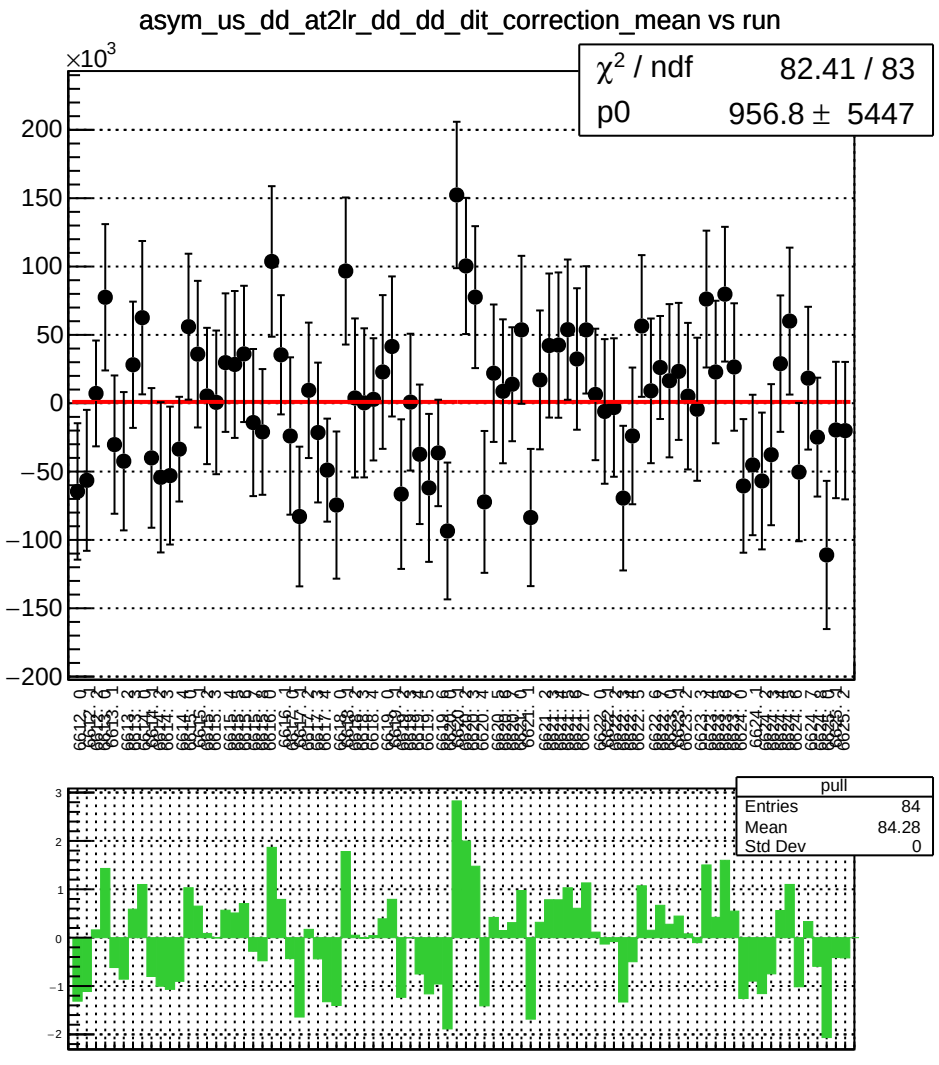

pull1D
Entries 84
Mean 0.01137
Std Dev 0.9415

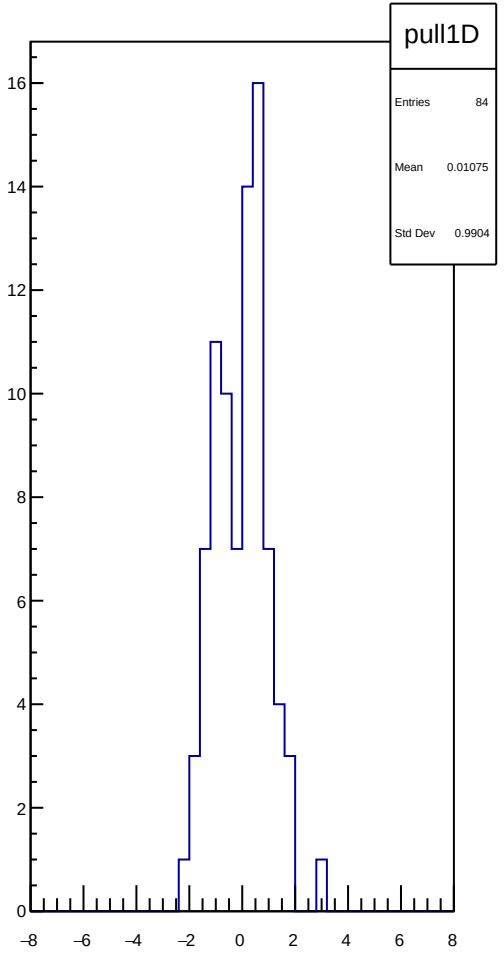

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.089e+04 / 83
p0 3415 ± 2.681
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

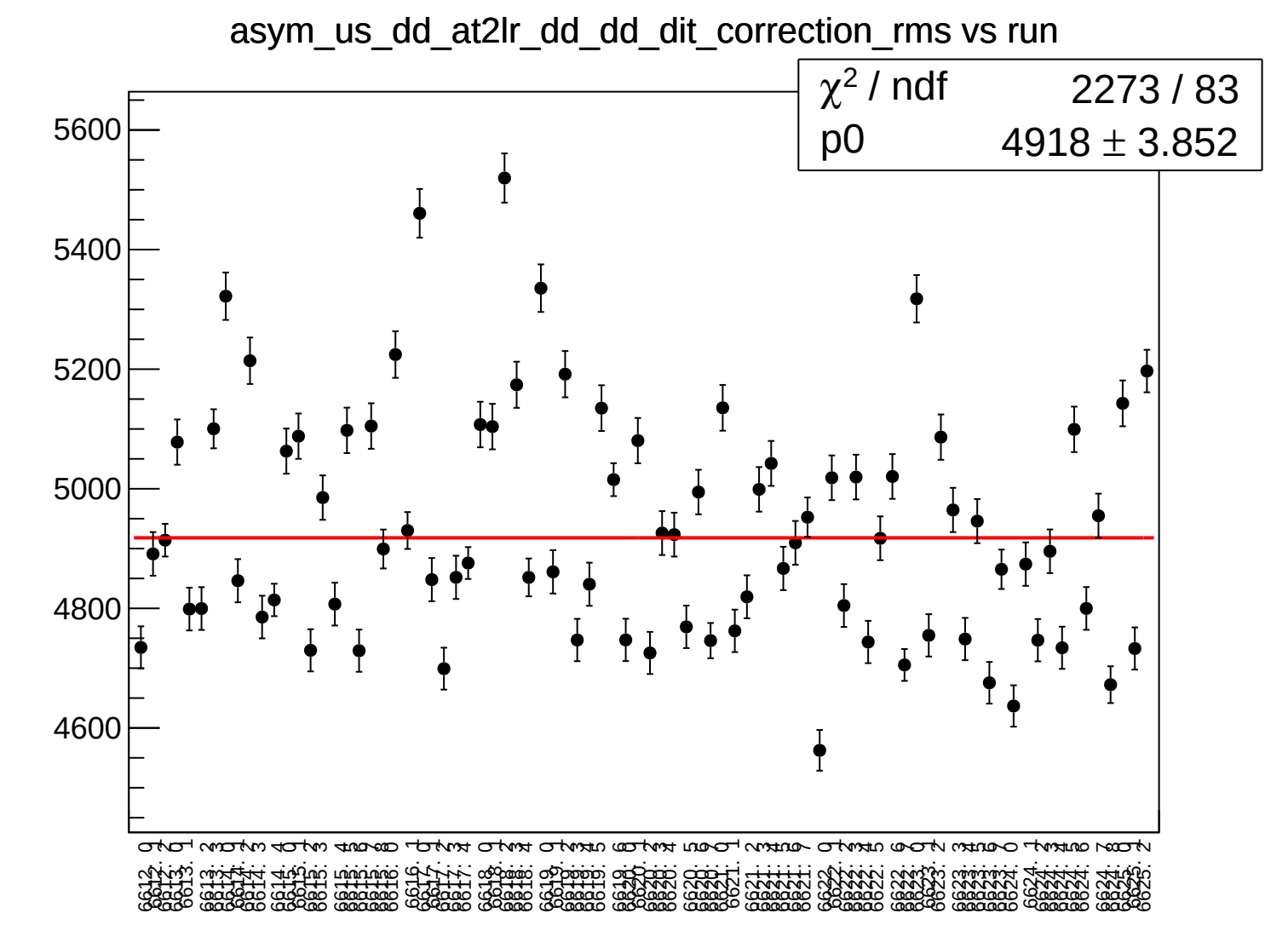

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 90.94 / 83
p0 −1353 ± 1463
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 66.29
Std Dev 0
2
1
0
−1
−2

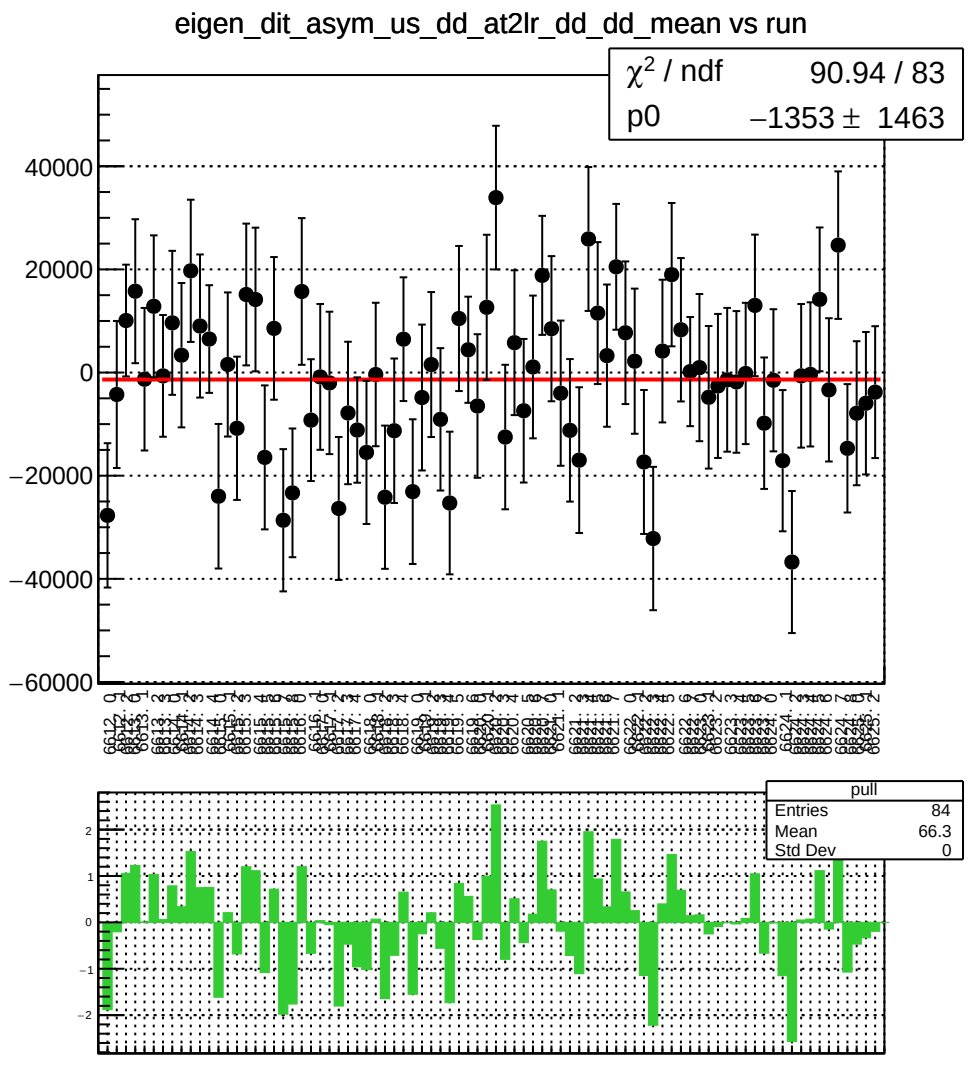

pull1D
Entries 84
Mean −0.006796
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

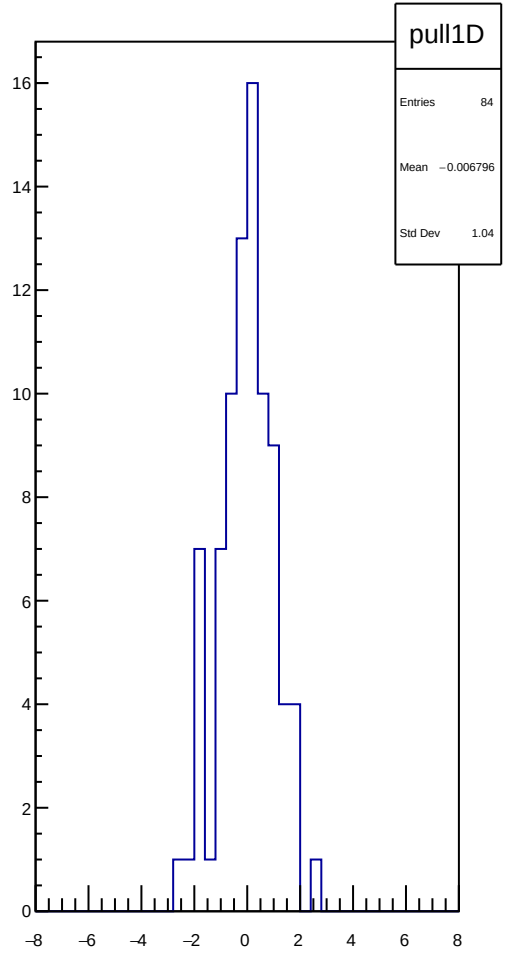

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 196.5 / 83
p0 1322 ± 1.034
1380
1360
1340
1320
1300
1280

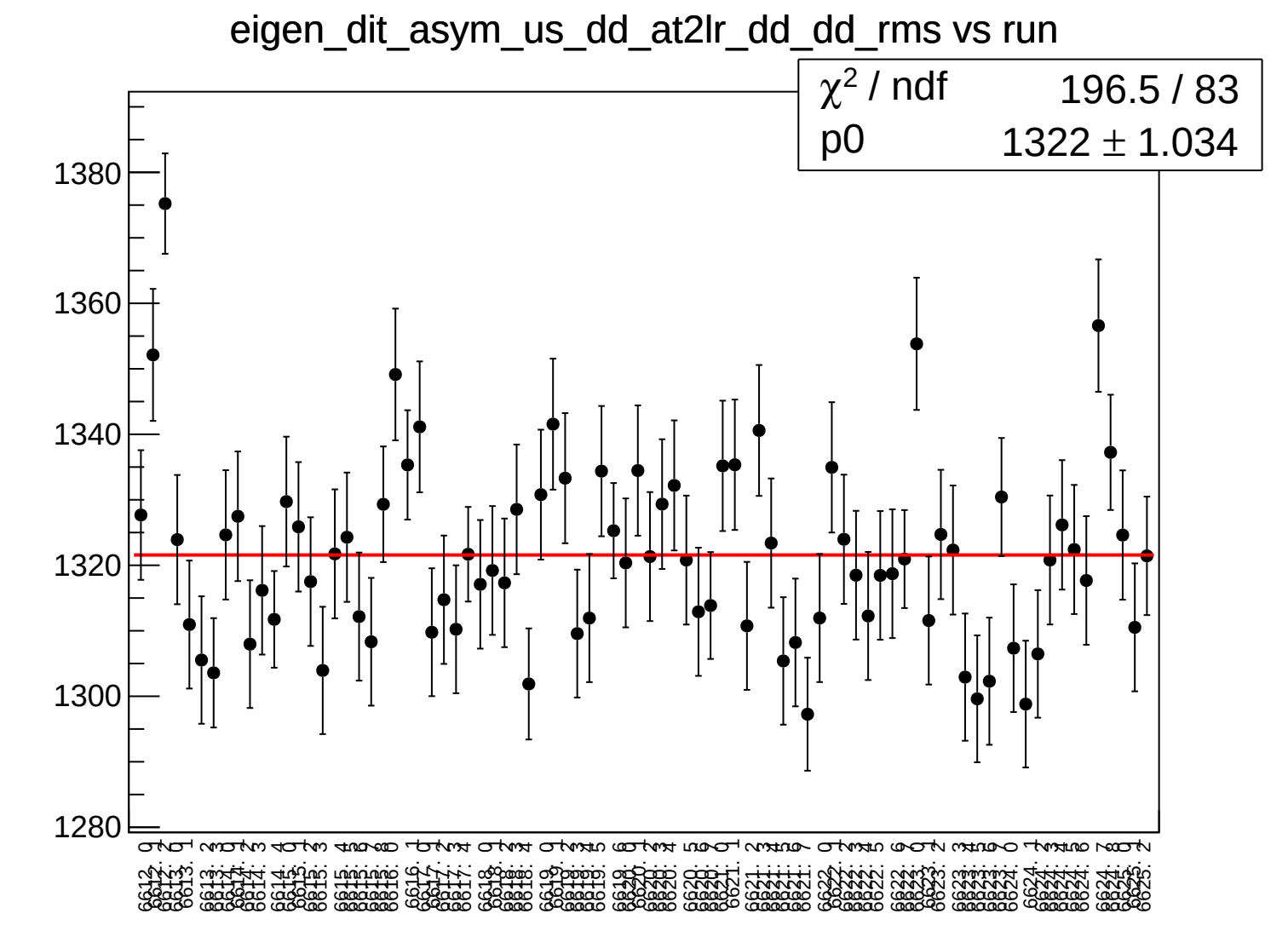

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.41 / 83
p0 956.8 ± 5447
pull
Entries 84
Mean 84.28
Std Dev 0

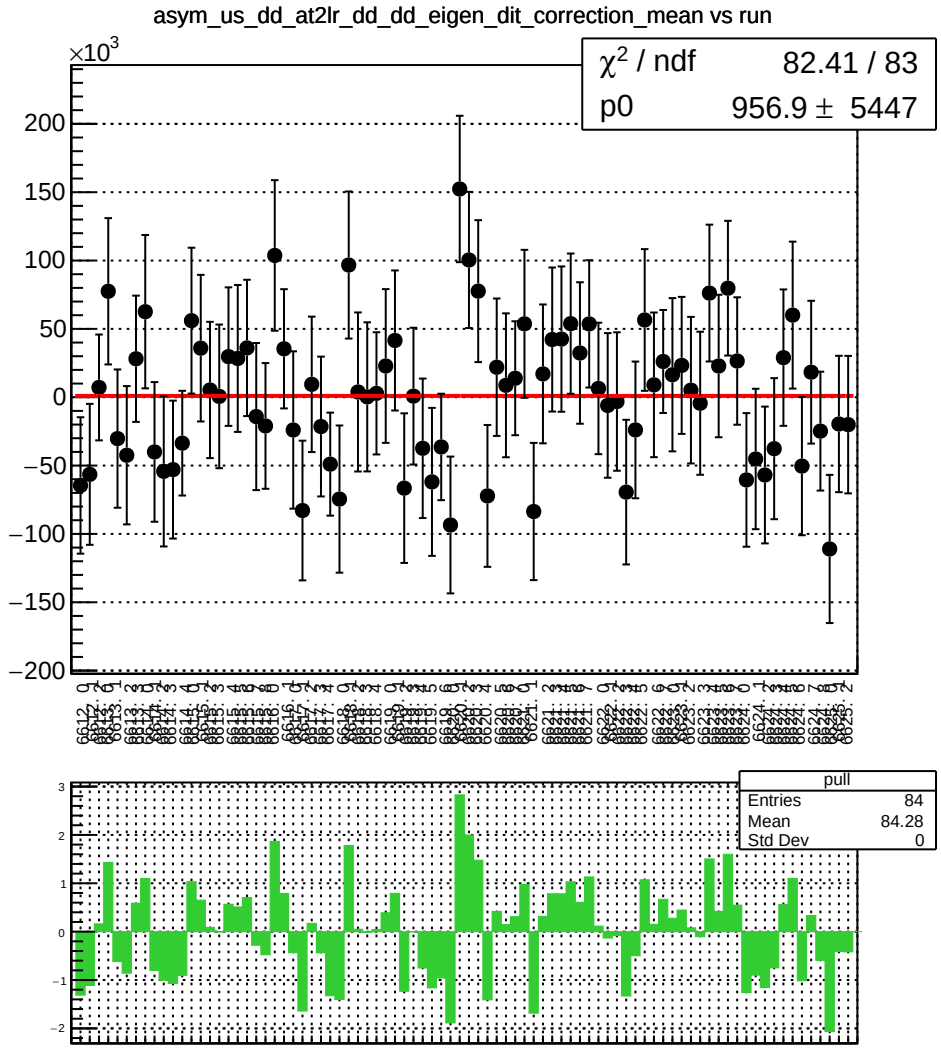

pull1D
Entries 84
Mean 0.01075
Std Dev 0.9904

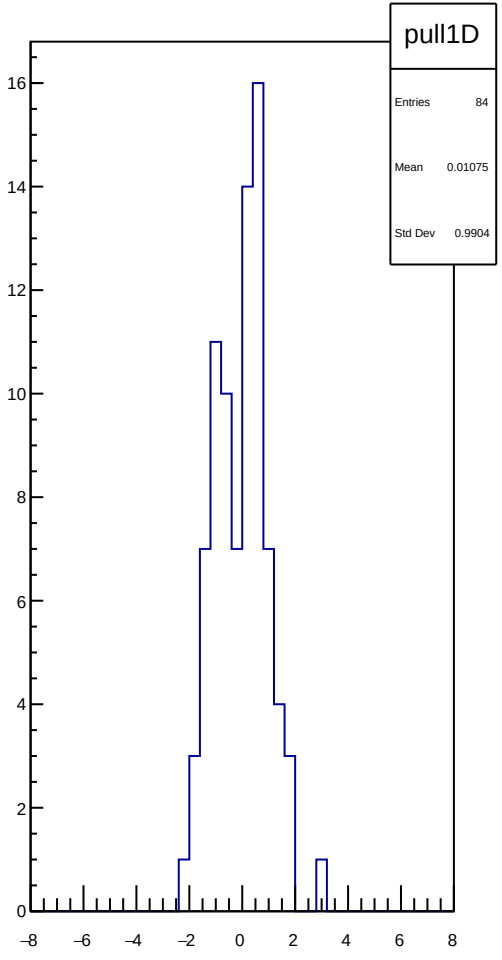

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2273 / 83
p0 4918 ± 3.852
5600
5400
5200
5000
4800
4600

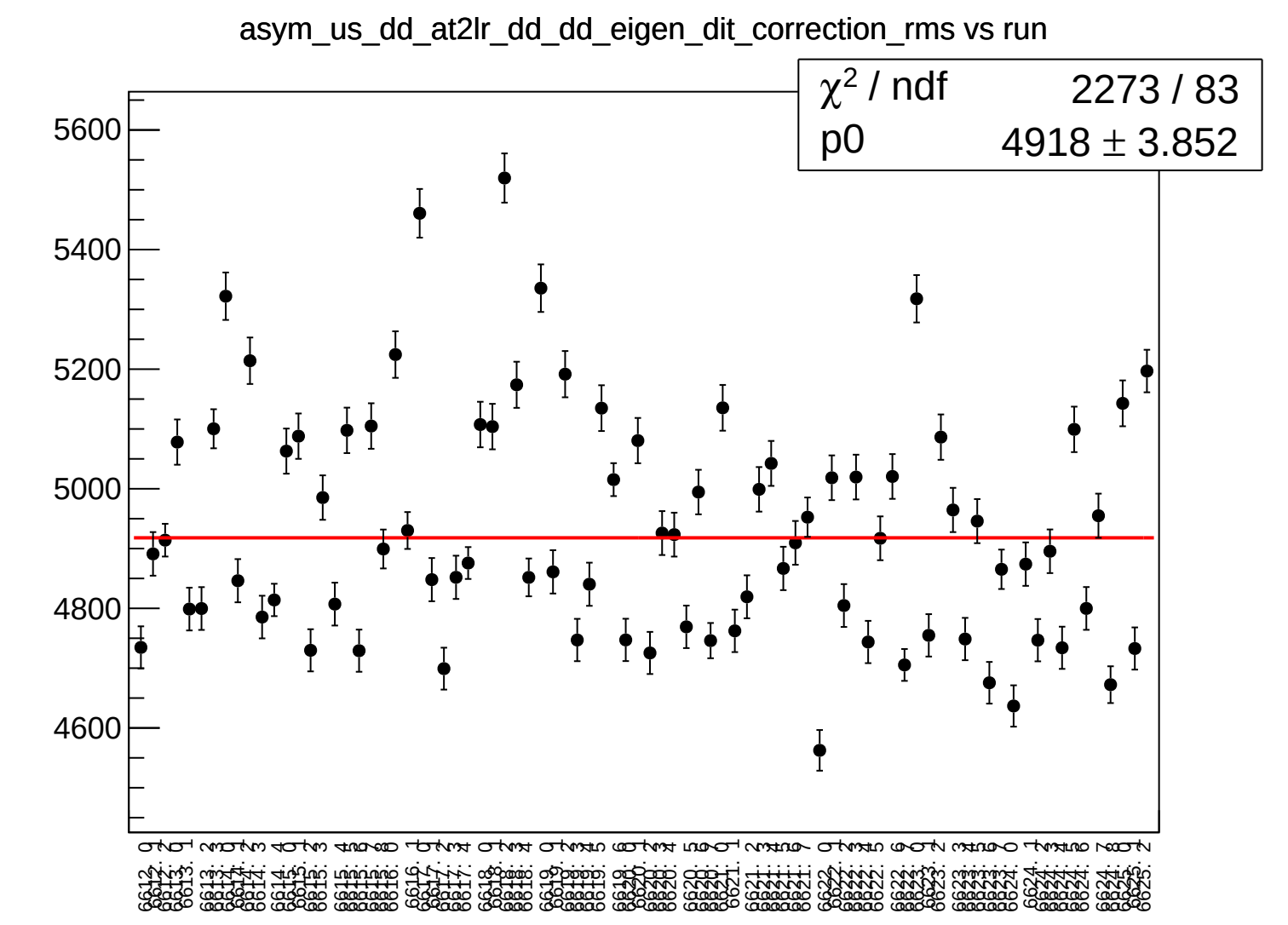

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 90.94 / 83
p0 −1353 ± 1463
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 66.3
Std Dev 0
2
1
0
−1
−2

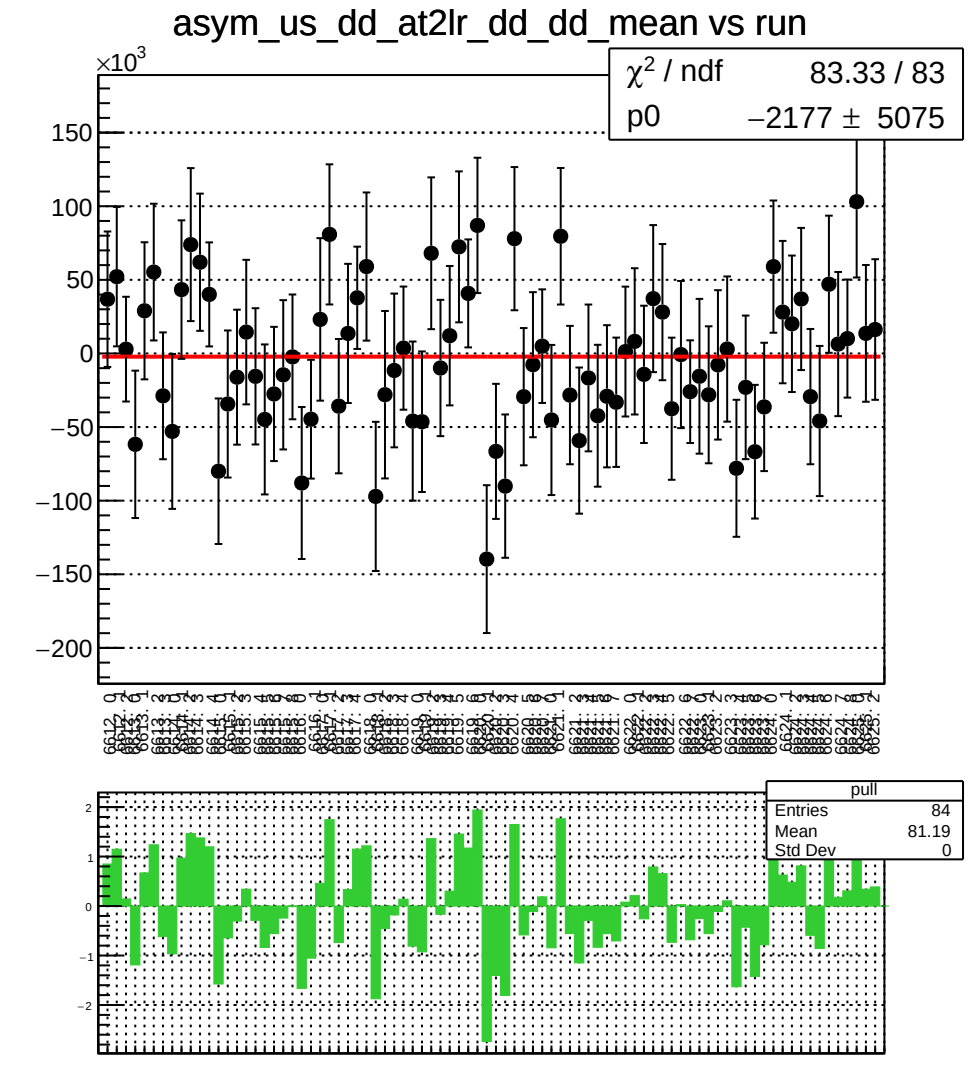

pull1D
Entries 84
Mean −0.006796
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

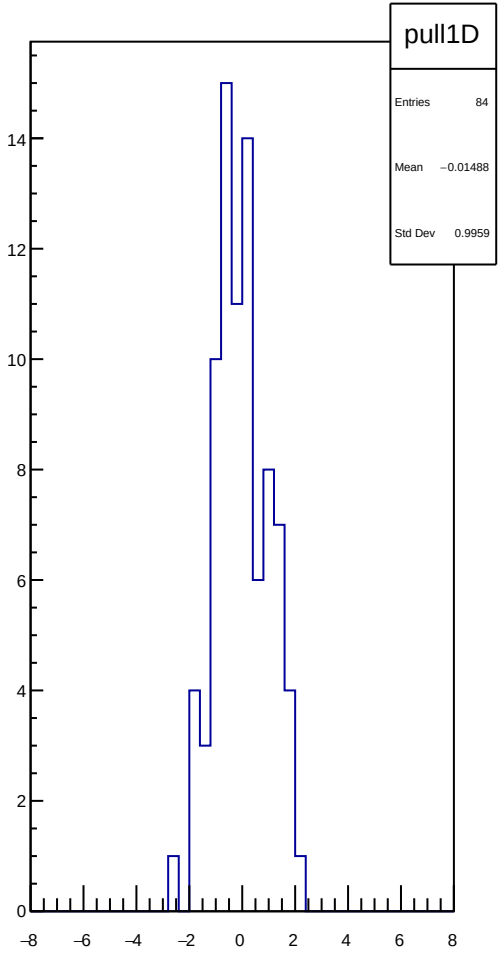

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 196.5 / 83
p0 1322 ± 1.034
1380
1360
1340
1320
1300
1280

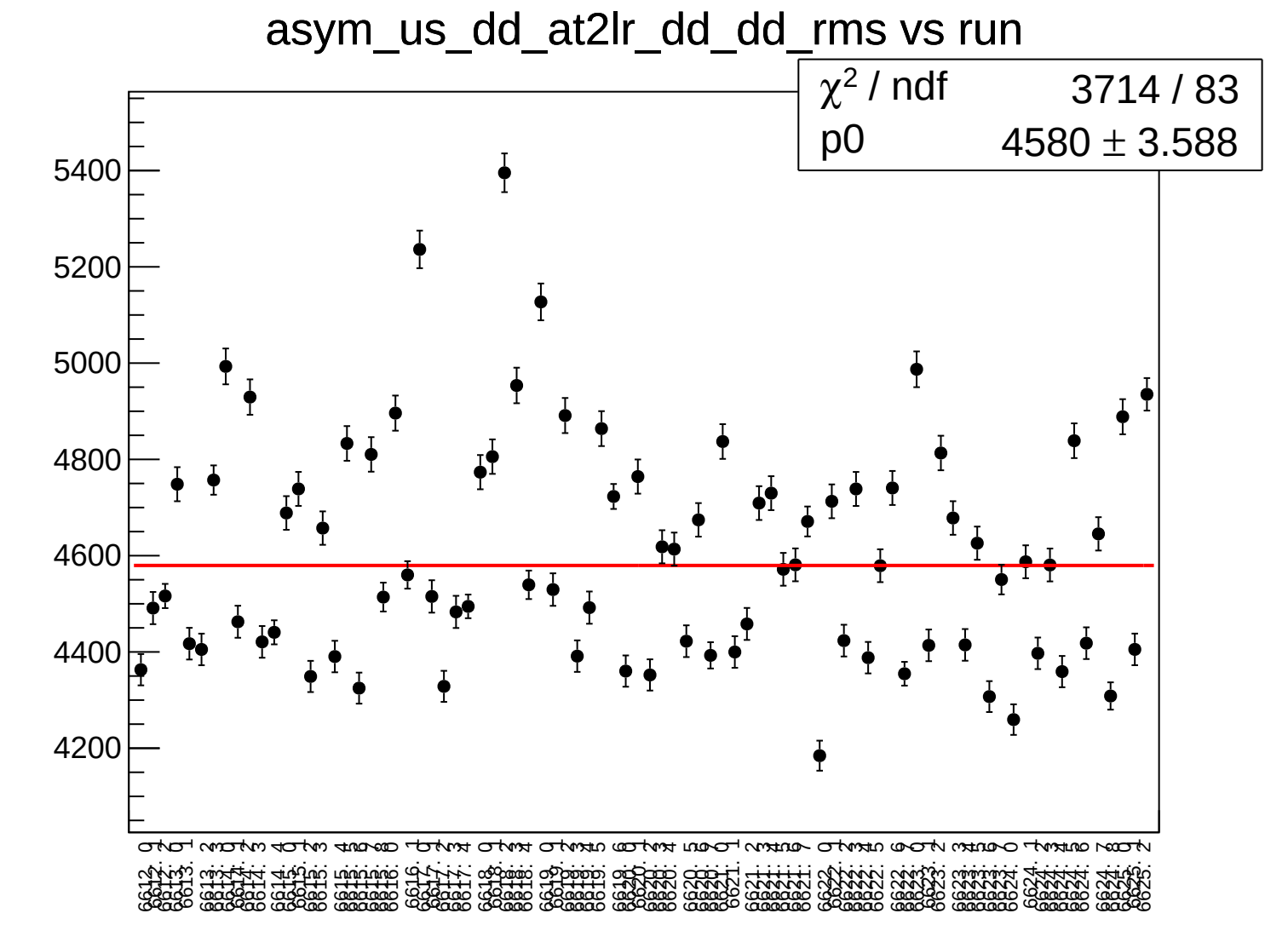

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.41 / 83
p0 956.9 ± 5447
pull
Entries 84
Mean 84.28
Std Dev 0

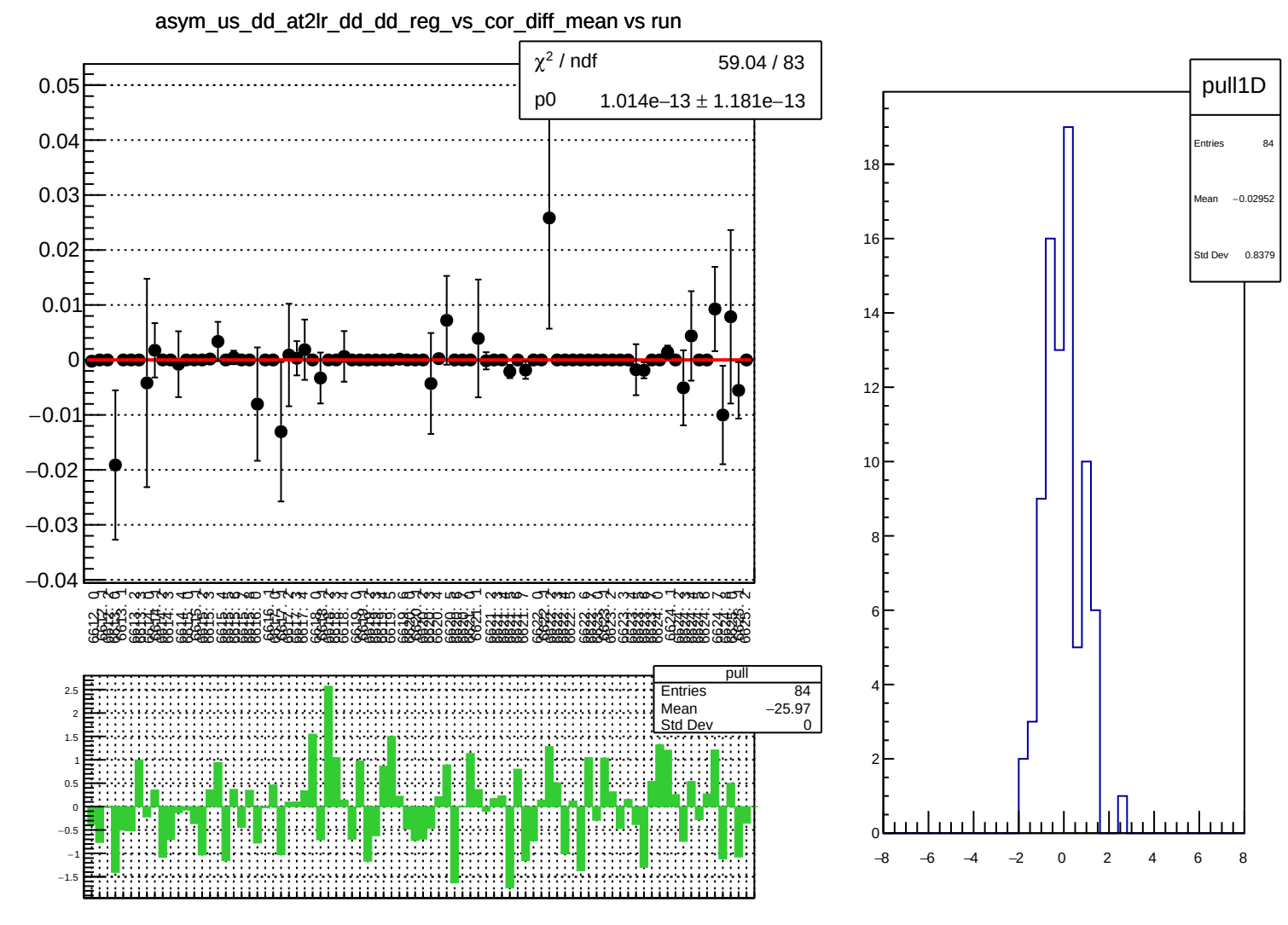

pull1D
Entries 84
Mean 0.01075
Std Dev 0.9904

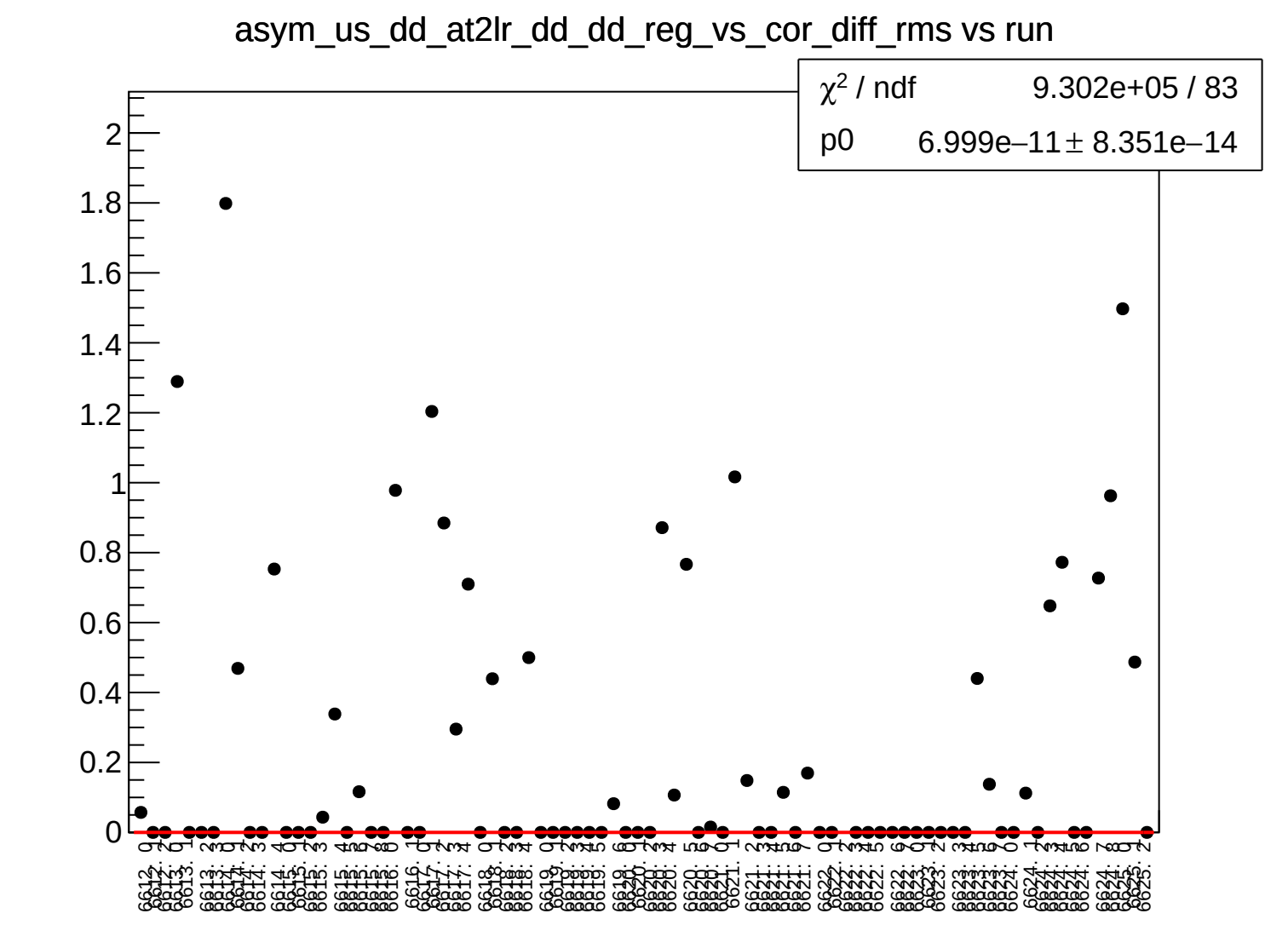

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 2273 / 83
p0 4918 ± 3.852
5600
5400
5200
5000
4800
4600

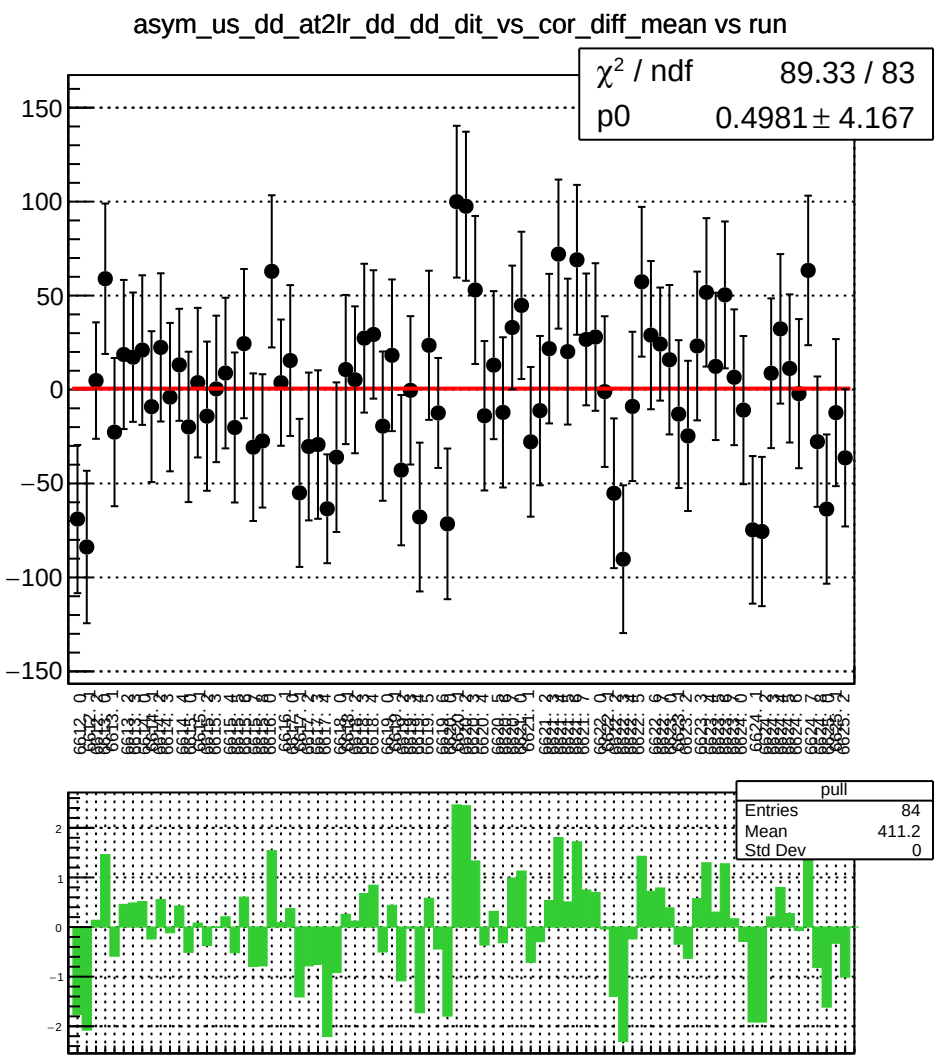

asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 83.33 / 83
p0 −2177 ± 5075
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 81.19
Std Dev 0
2
1
0
−1
−2

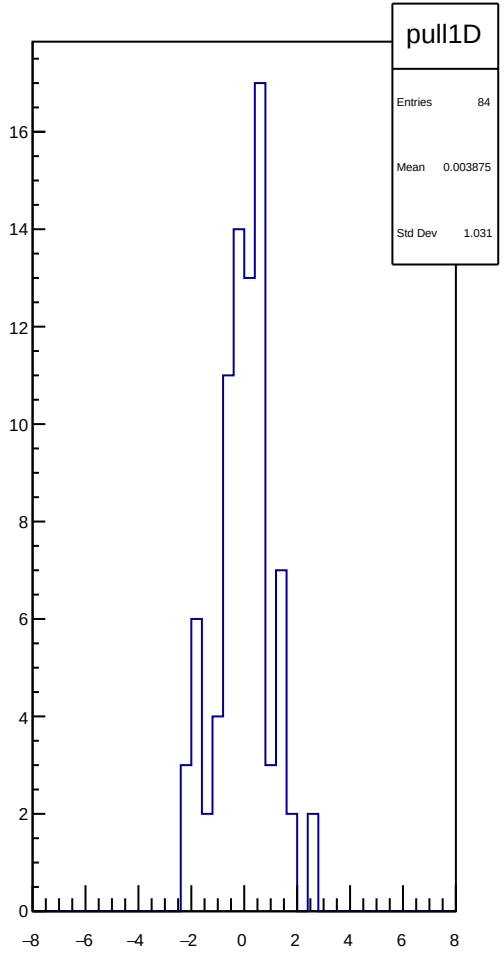

pull1D
Entries 84
Mean −0.01488
Std Dev 0.9959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

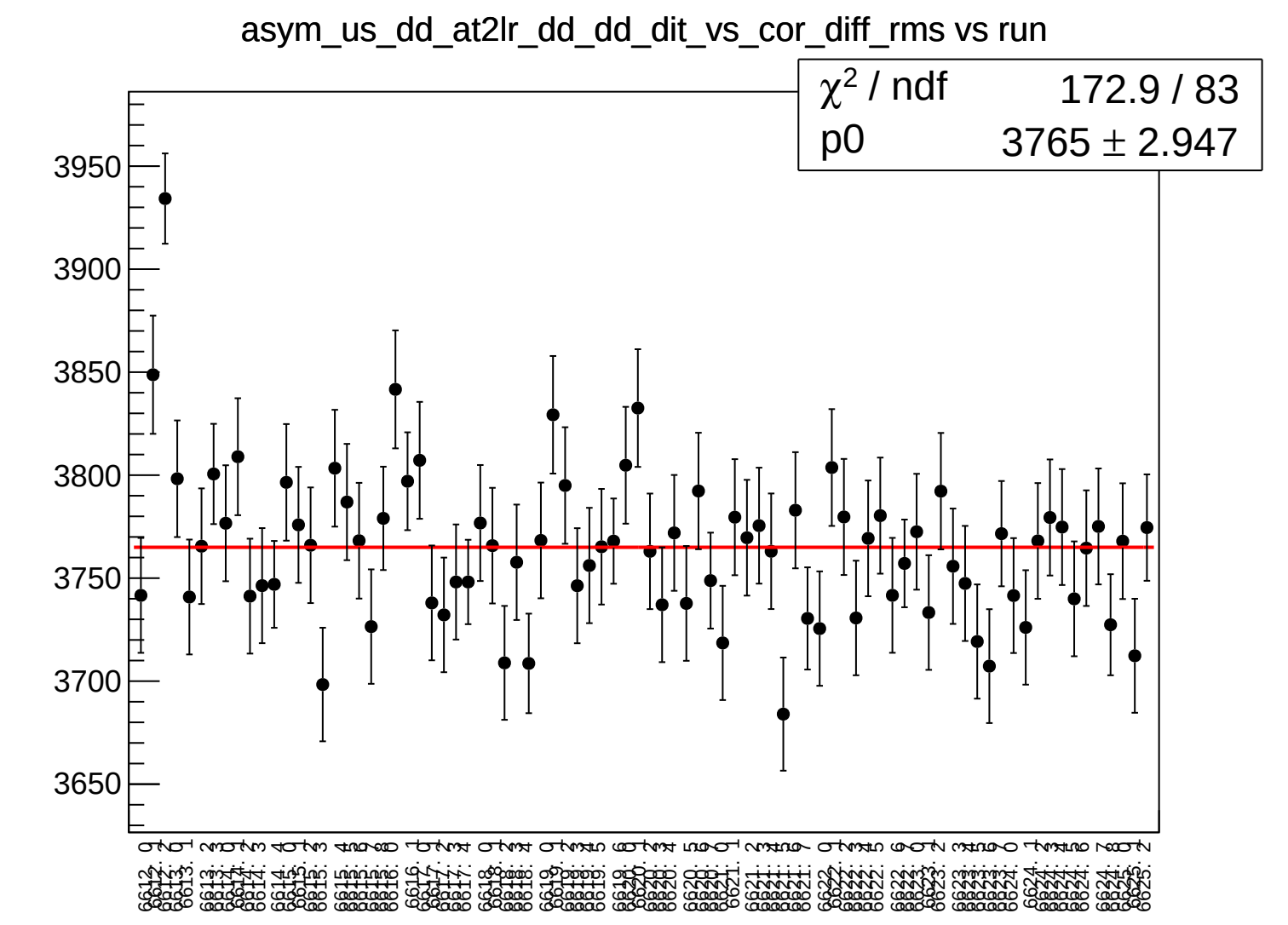

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 3714 / 83
p0 4580 ± 3.588
5400
5200
5000
4800
4600
4400
4200

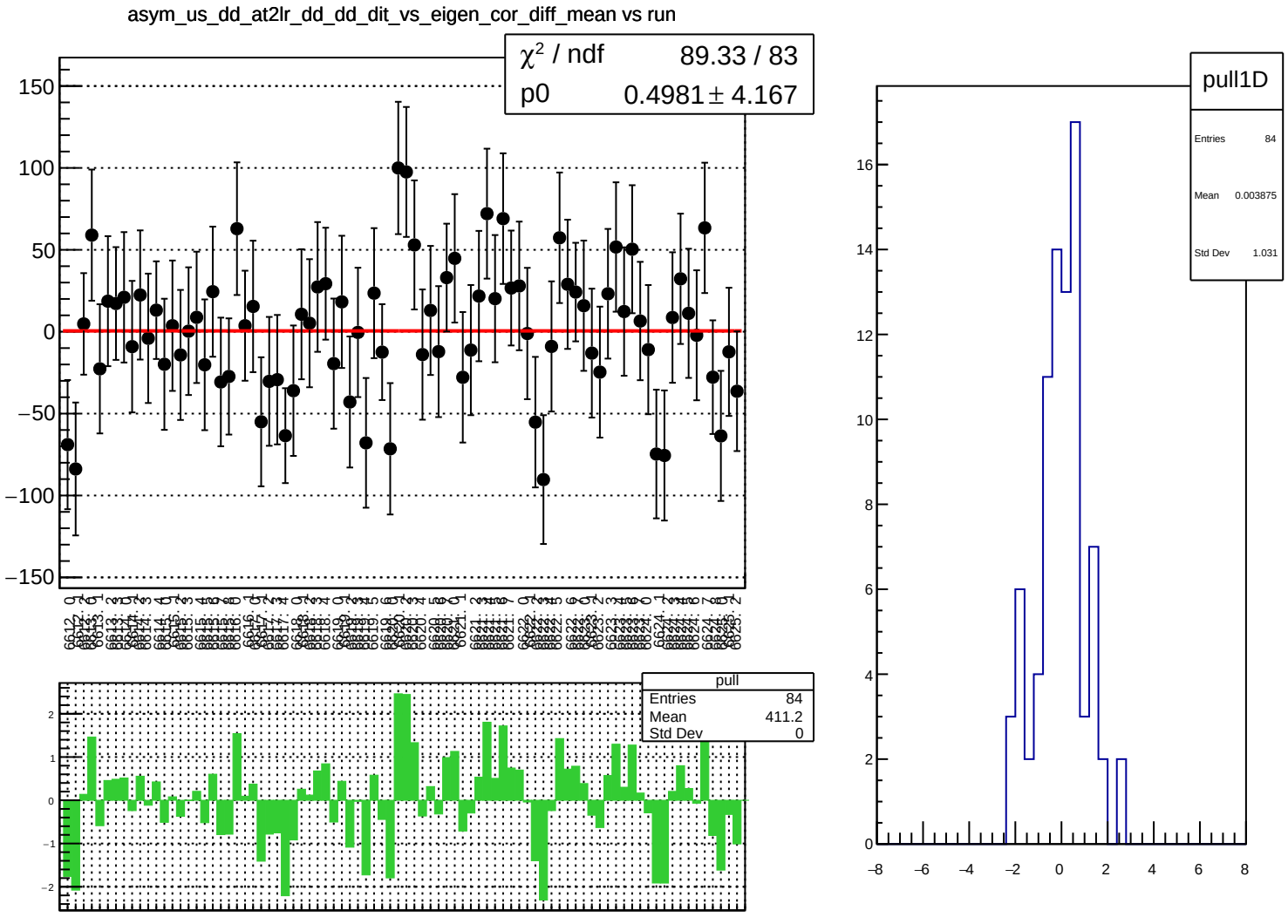

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 59.04 / 83
p0 1.014e−13 ± 1.181e−13
pull
Entries 84
Mean −25.97
Std Dev 0
pull1D
Entries 84
Mean −0.02952
Std Dev 0.8379

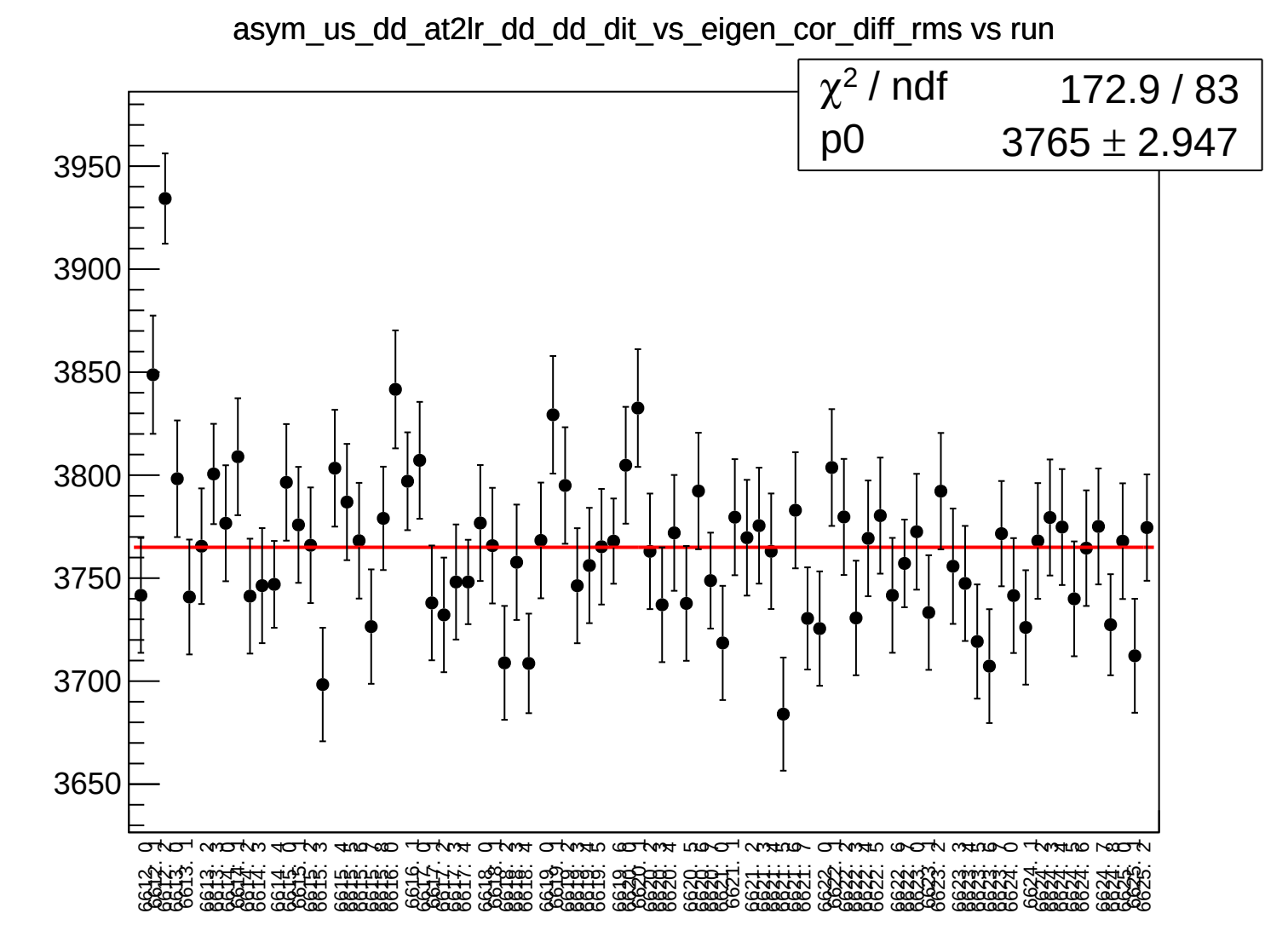

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.302e+05 / 83
p0 6.999e−11 ± 8.351e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

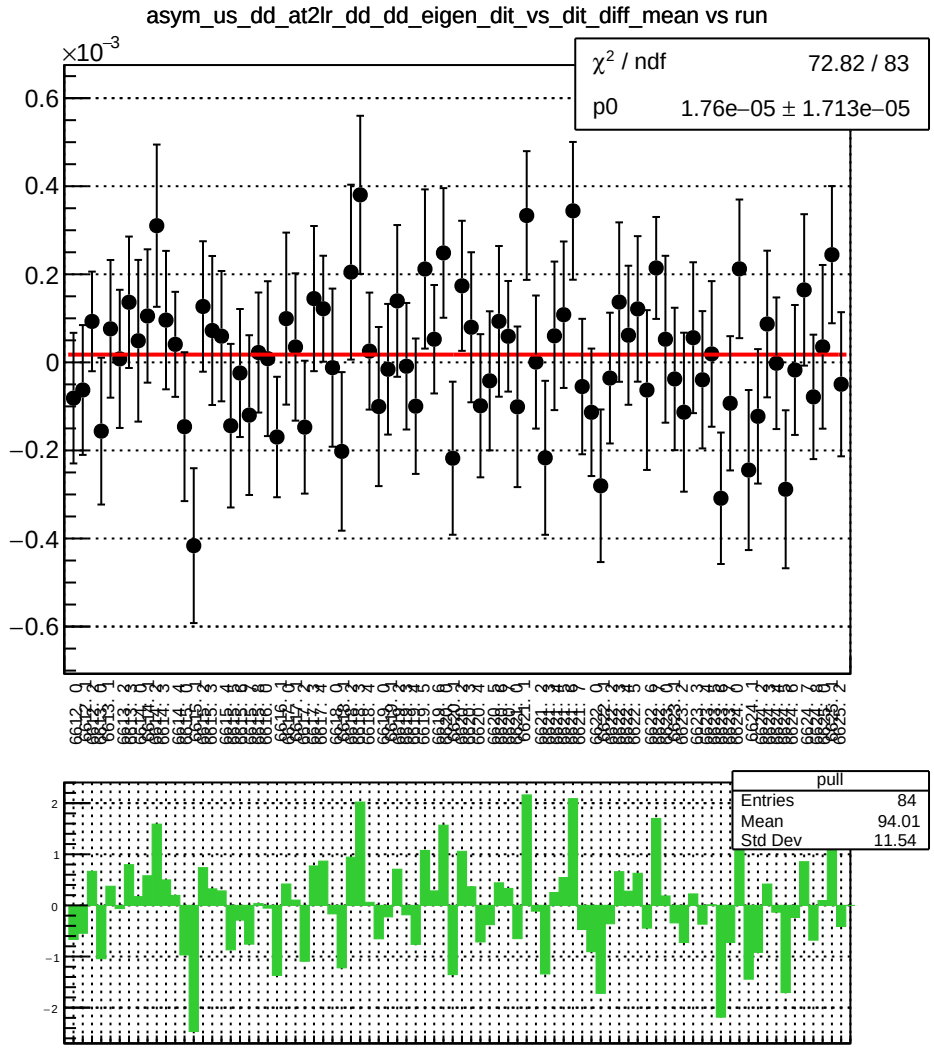

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.33 / 83
p0 0.4981 ± 4.167
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 411.2
Std Dev 0
2
1
0
−1
−2

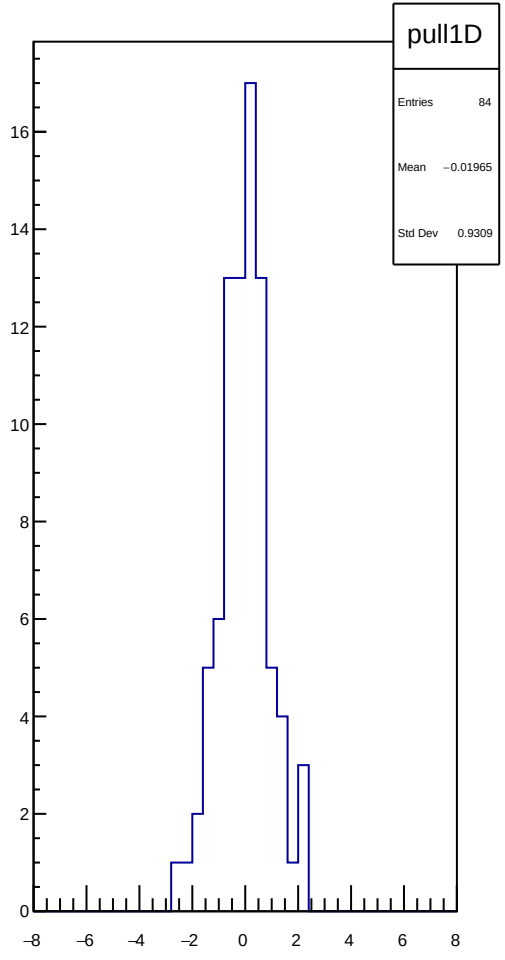

pull1D
Entries 84
Mean 0.003875
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

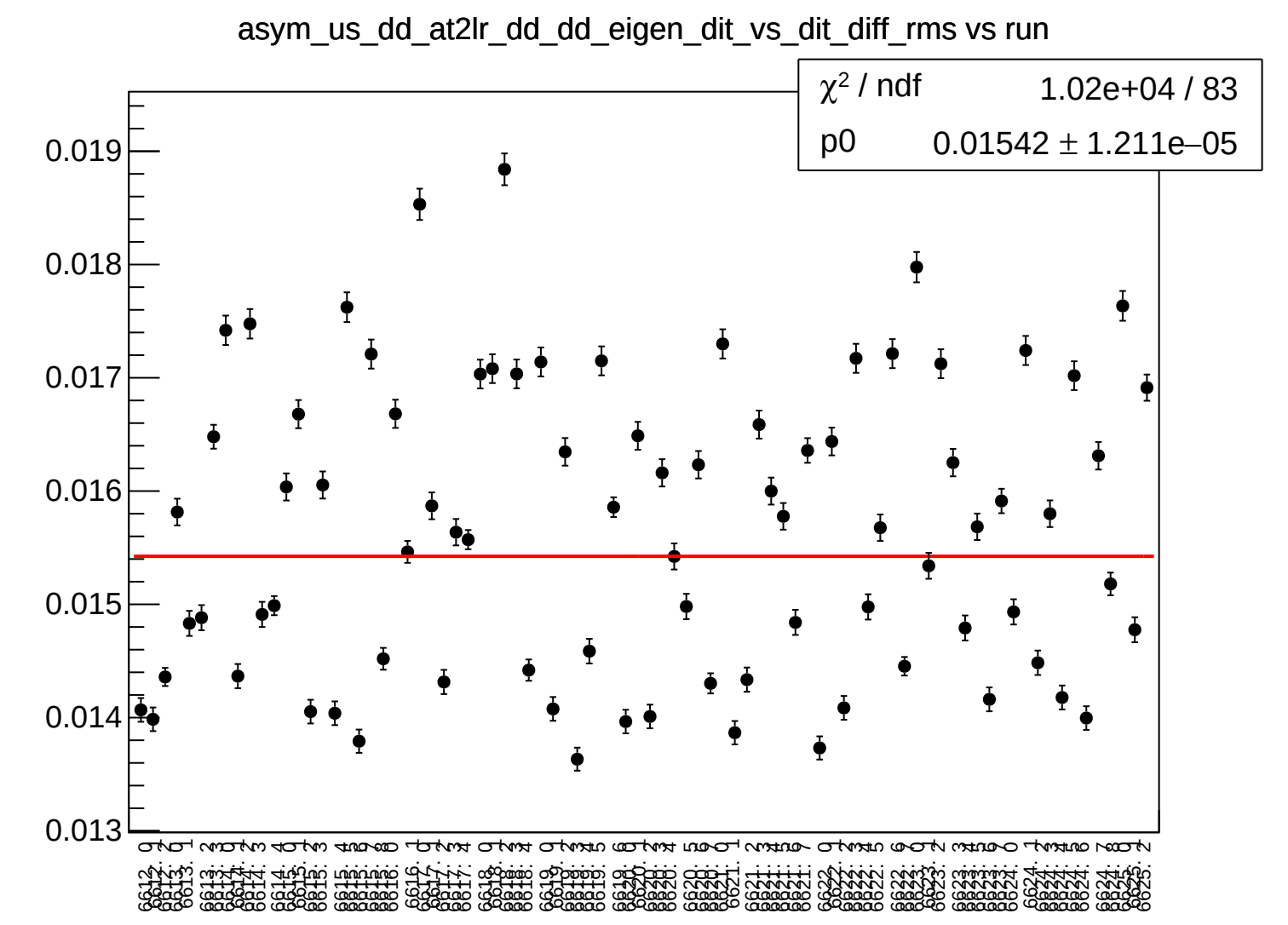

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 172.9 / 83
p0 3765 ± 2.947
3950
3900
3850
3800
3750
3700
3650

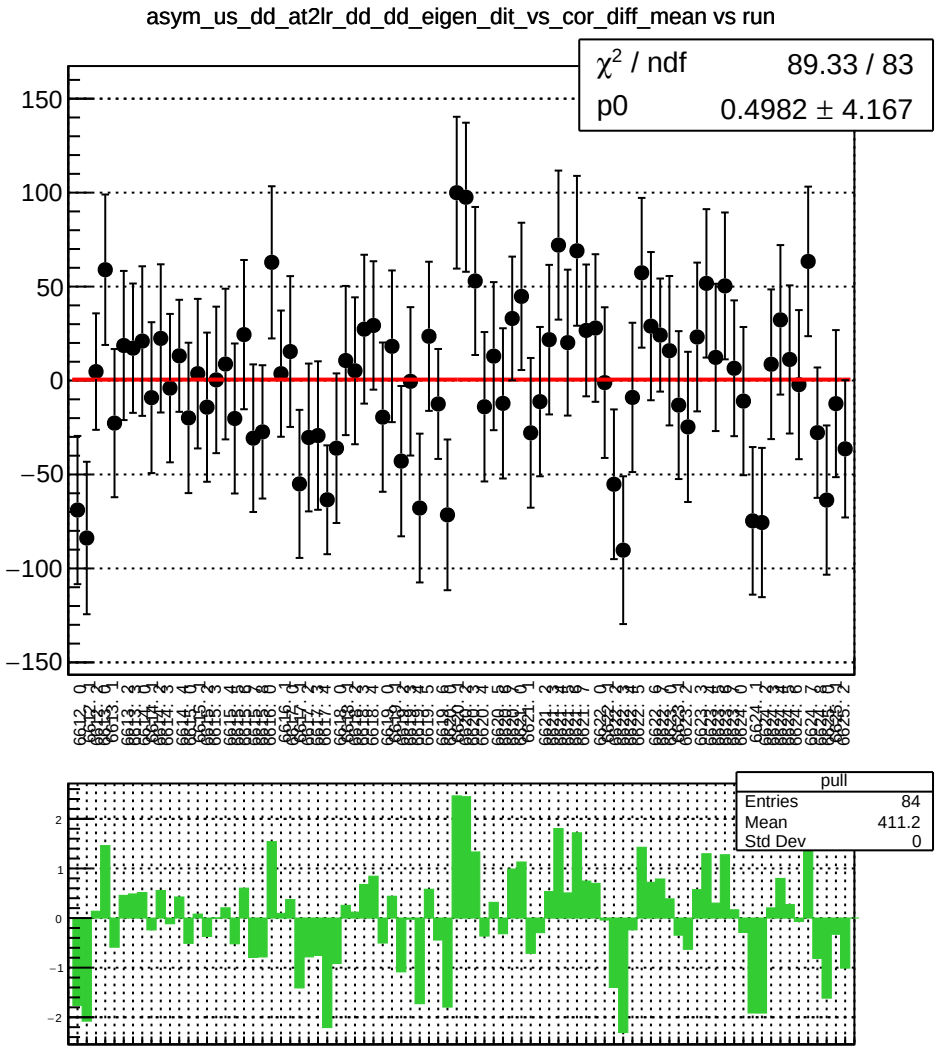

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.33 / 83
p0 0.4981 ± 4.167
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 411.2
Std Dev 0
pull1D
Entries 84
Mean 0.003875
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

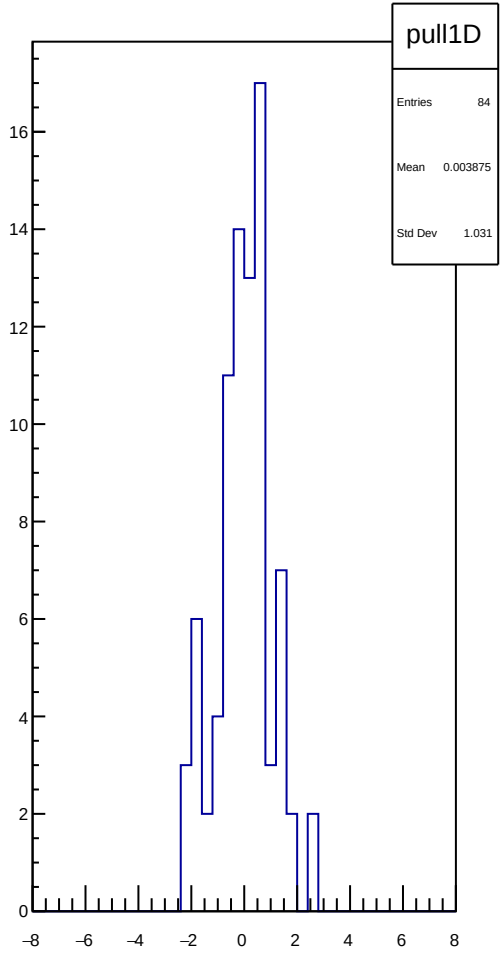

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 172.9 / 83
p0 3765 ± 2.947
3950
3900
3850
3800
3750
3700
3650

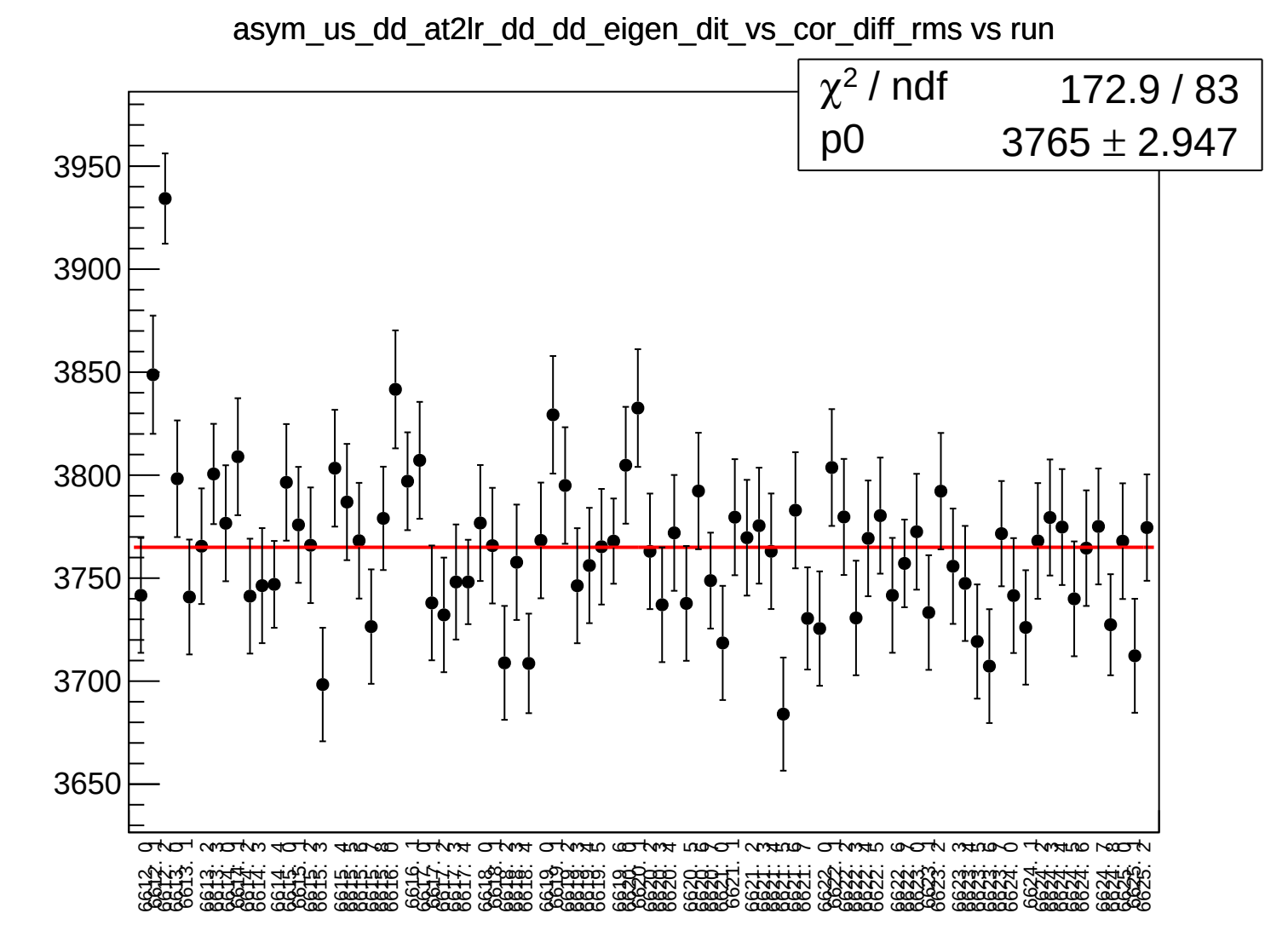

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.82 / 83
p0 1.76e−05 ± 1.713e−05
pull
Entries 84
Mean 94.01
Std Dev 11.54

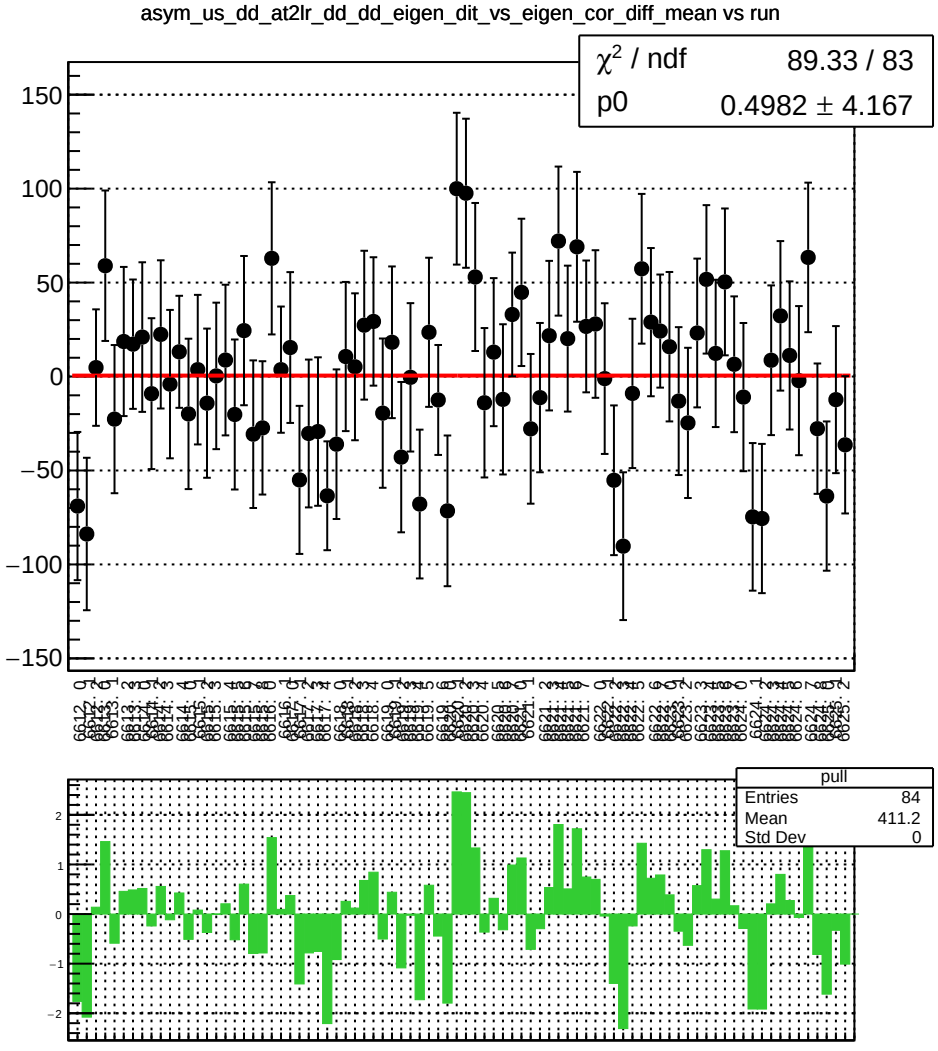

pull1D
Entries 84
Mean −0.01965
Std Dev 0.9309

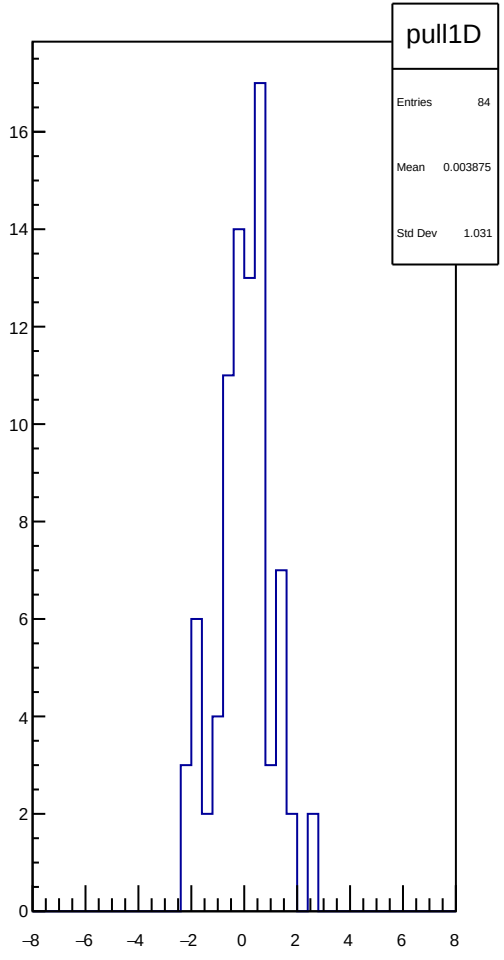

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.02e+04 / 83
p0 0.01542 ± 1.211e–05
0.019
0.018
0.017
0.016
0.015
0.014
0.013

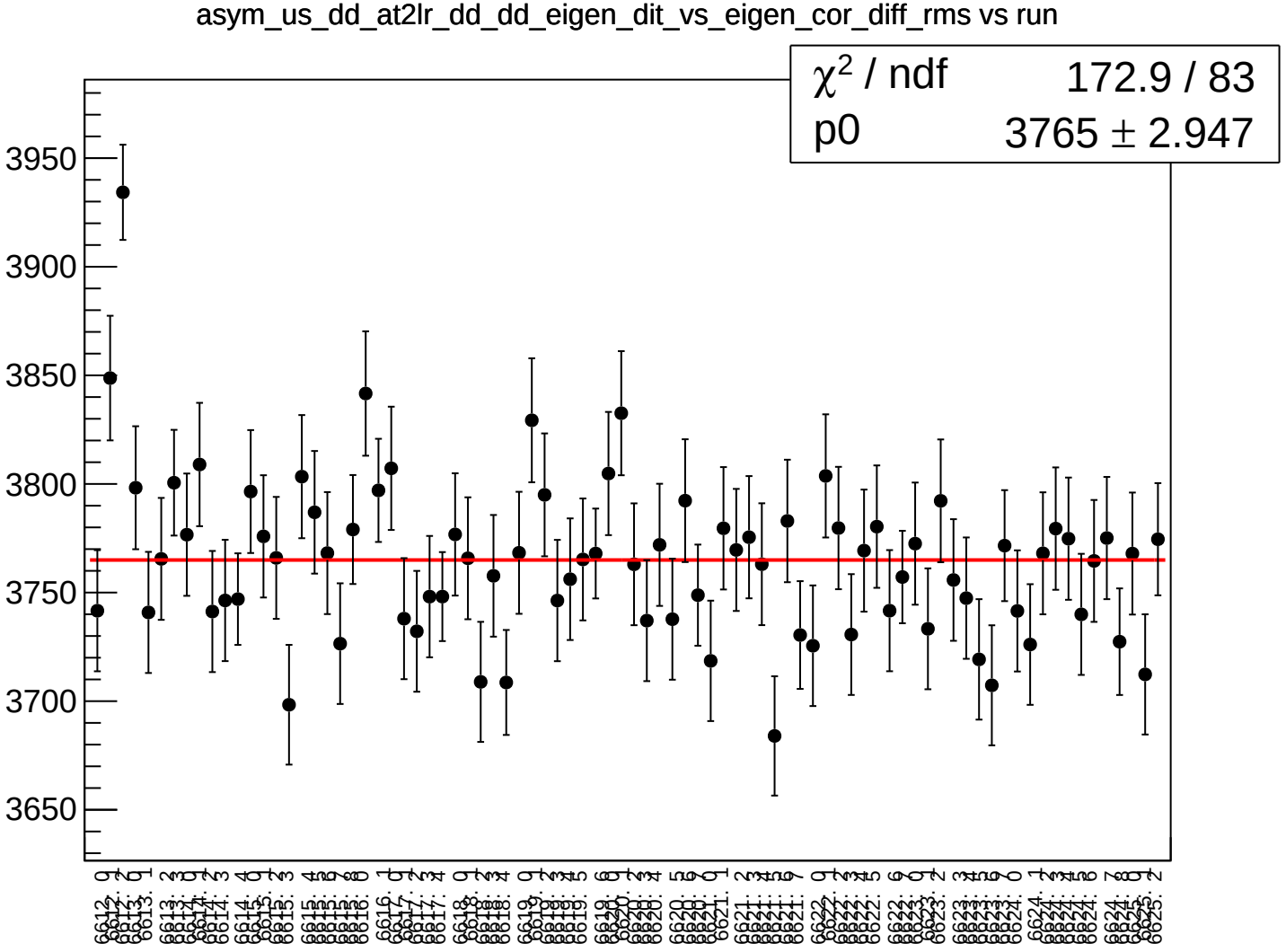

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ^2 / ndf 89.33 / 83
p0 0.4982 ± 4.167
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 411.2
Std Dev 0
2
1
0
−1
−2

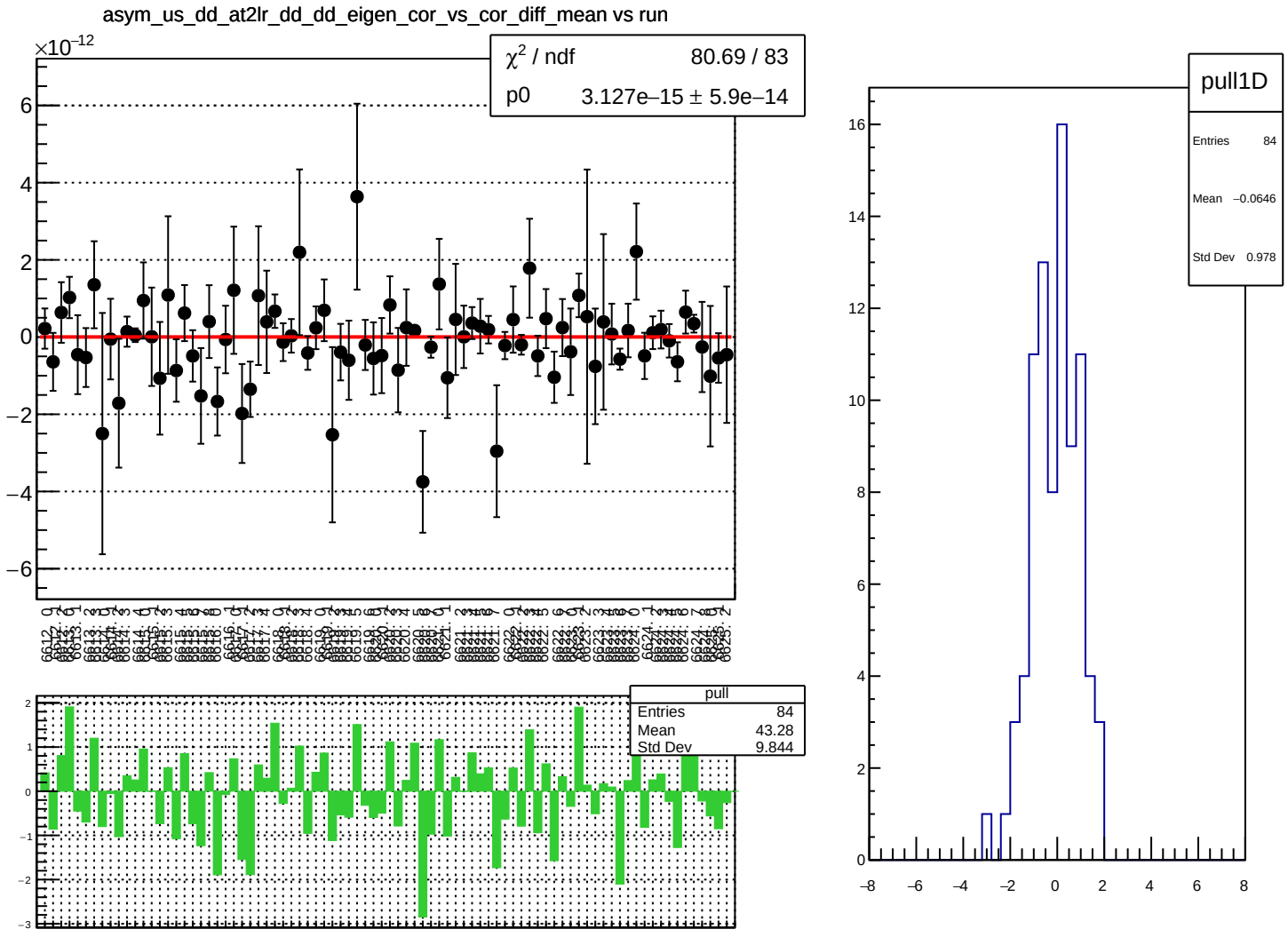

pull1D
Entries 84
Mean 0.003875
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

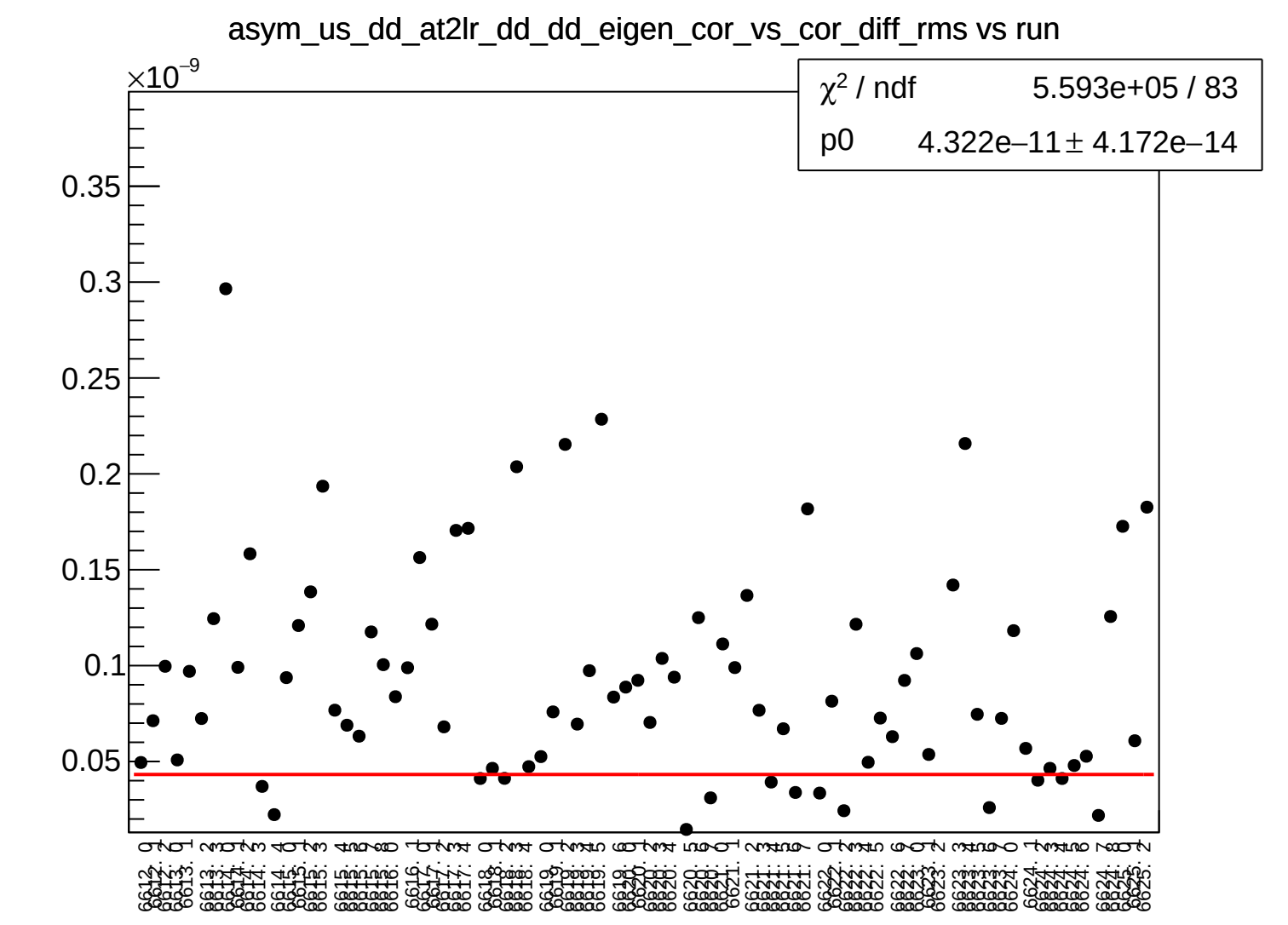

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 172.9 / 83
p0 3765 ± 2.947
3950
3900
3850
3800
3750
3700
3650

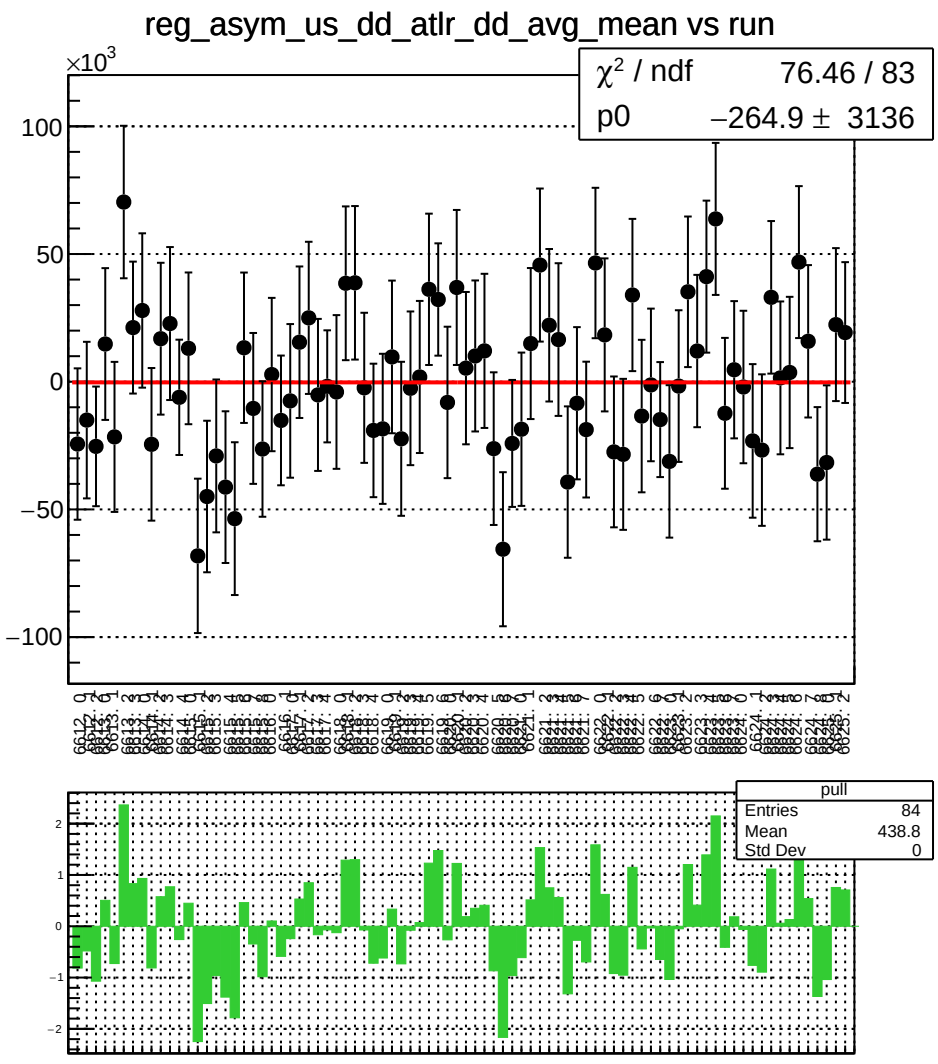

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.33 / 83
p0 0.4982 ± 4.167
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 411.2
Std Dev 0
2
1
0
−1
−2

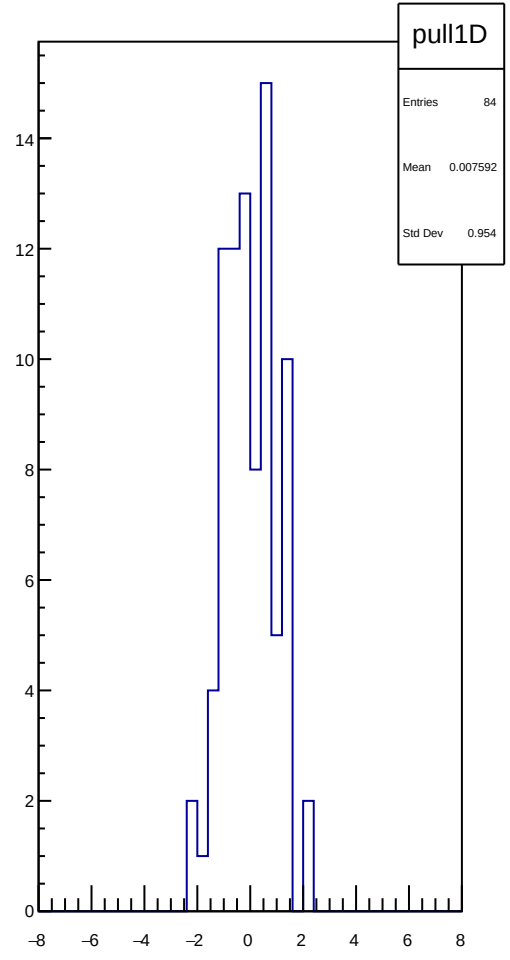

pull1D
Entries 84
Mean 0.003875
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

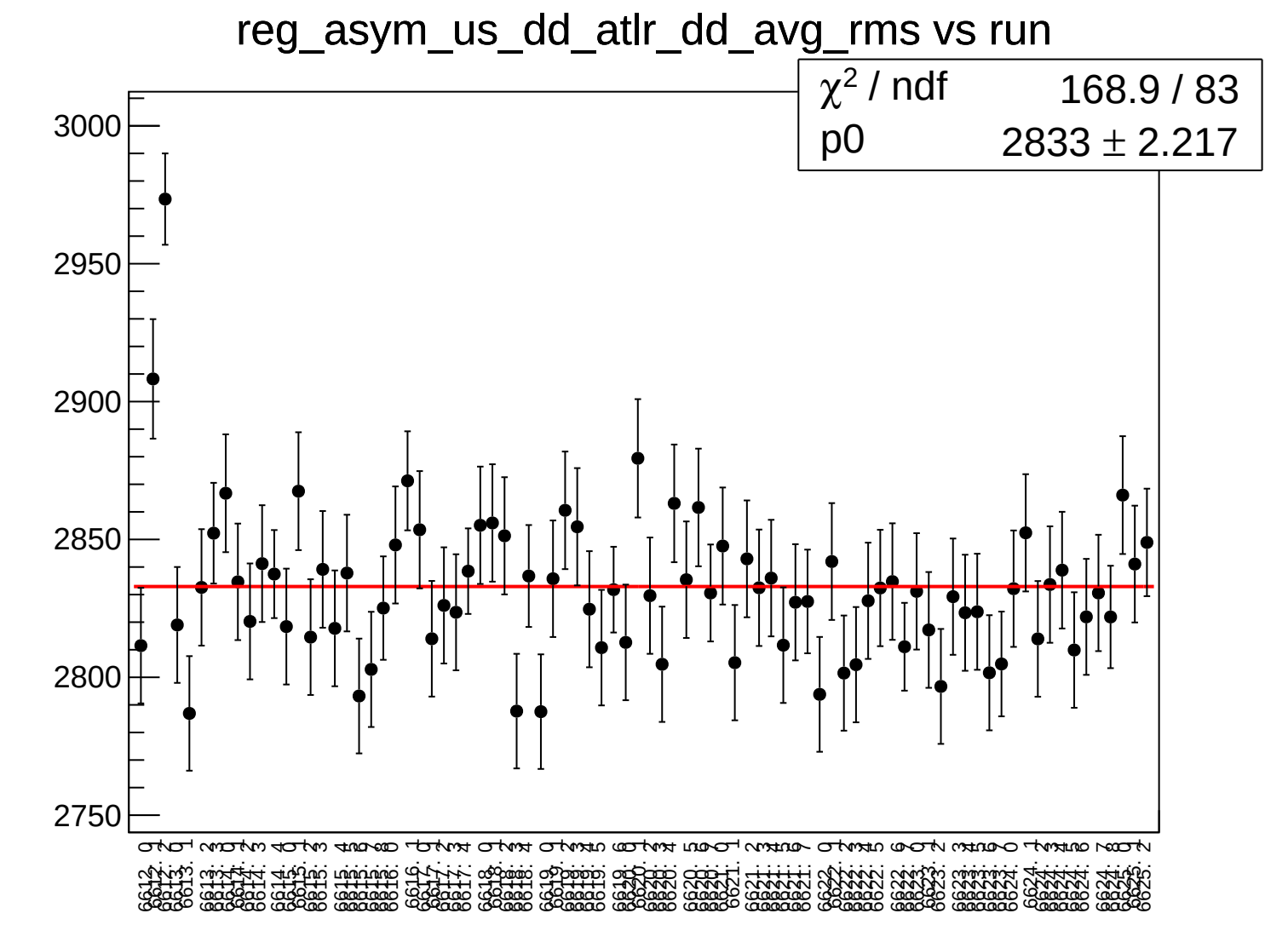

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 172.9 / 83
p0 3765 ± 2.947
3950
3900
3850
3800
3750
3700
3650

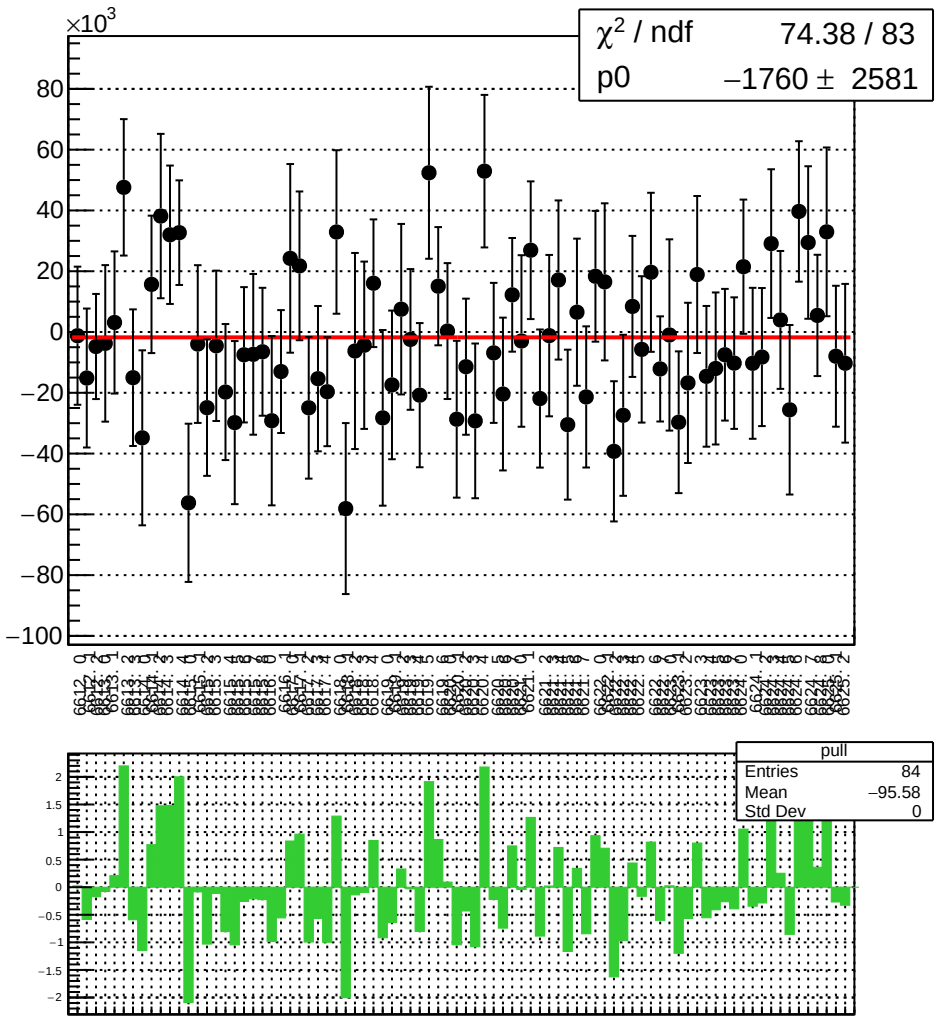

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 80.69 / 83
p0 3.127e−15 ± 5.9e−14
pull
Entries 84
Mean 43.28
Std Dev 9.844
pull1D
Entries 84
Mean −0.0646
Std Dev 0.978

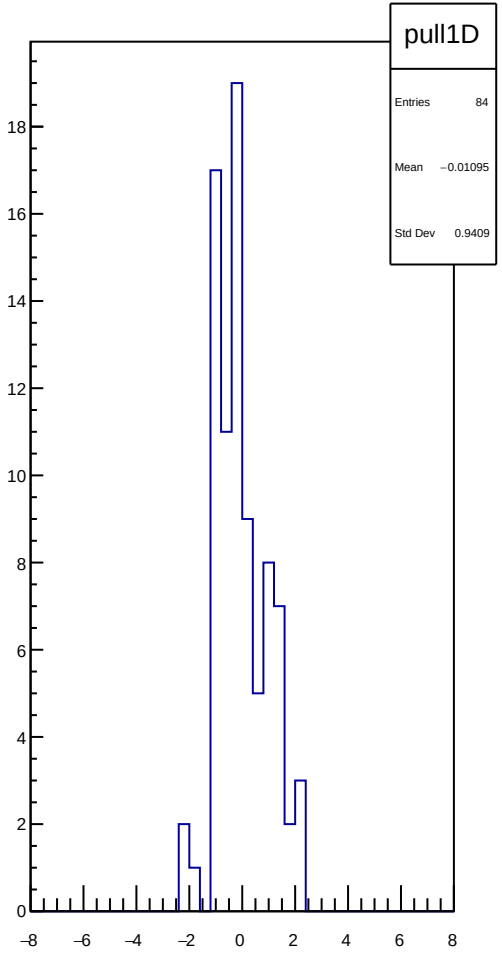

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.593e+05 / 83
p0 4.322e−11 ± 4.172e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

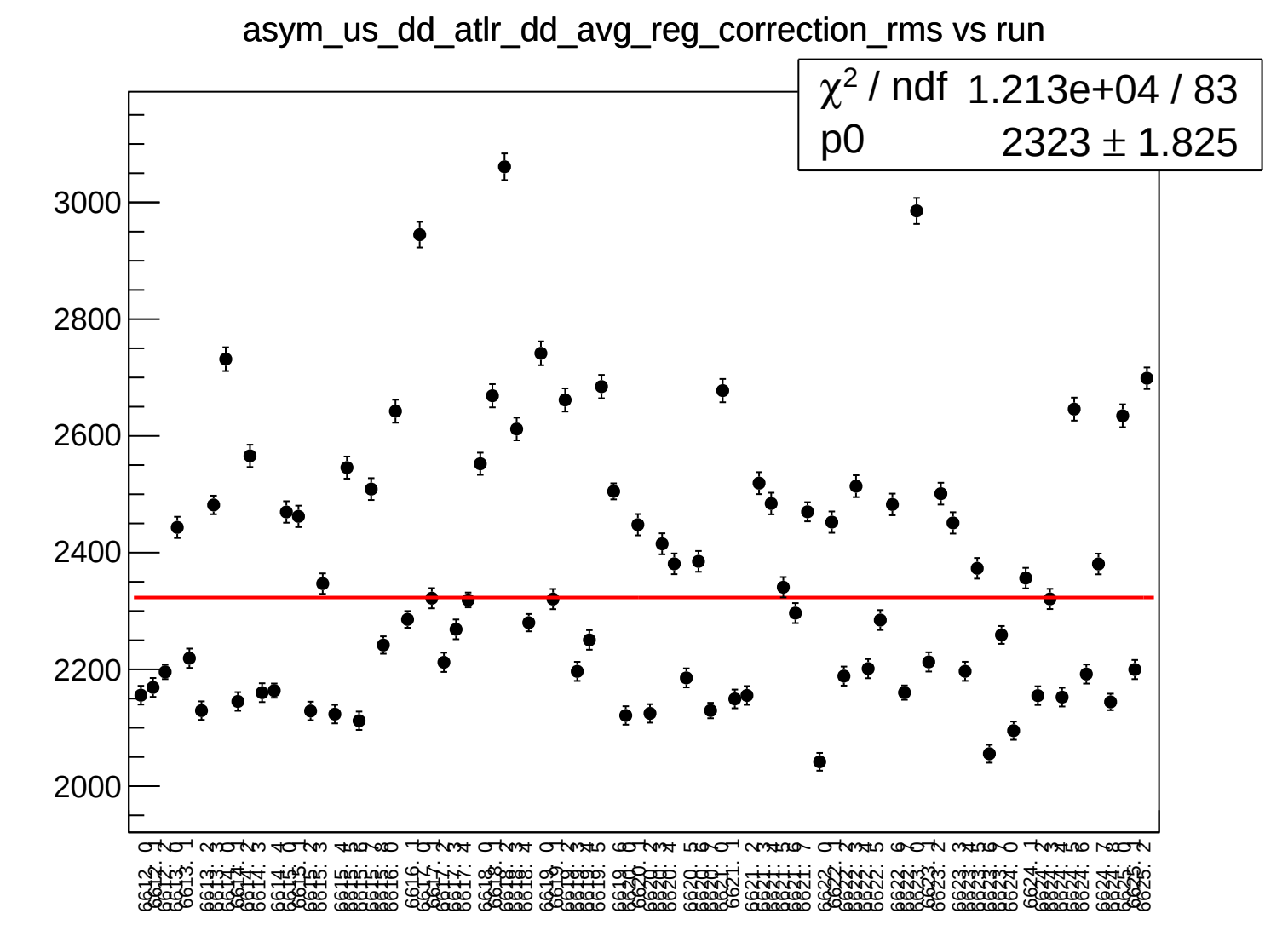

reg_asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 76.46 / 83
p0 −264.9 ± 3136
100
50
0
−50
−100
pull
Entries 84
Mean 438.8
Std Dev 0
2
1
0
−1
−2

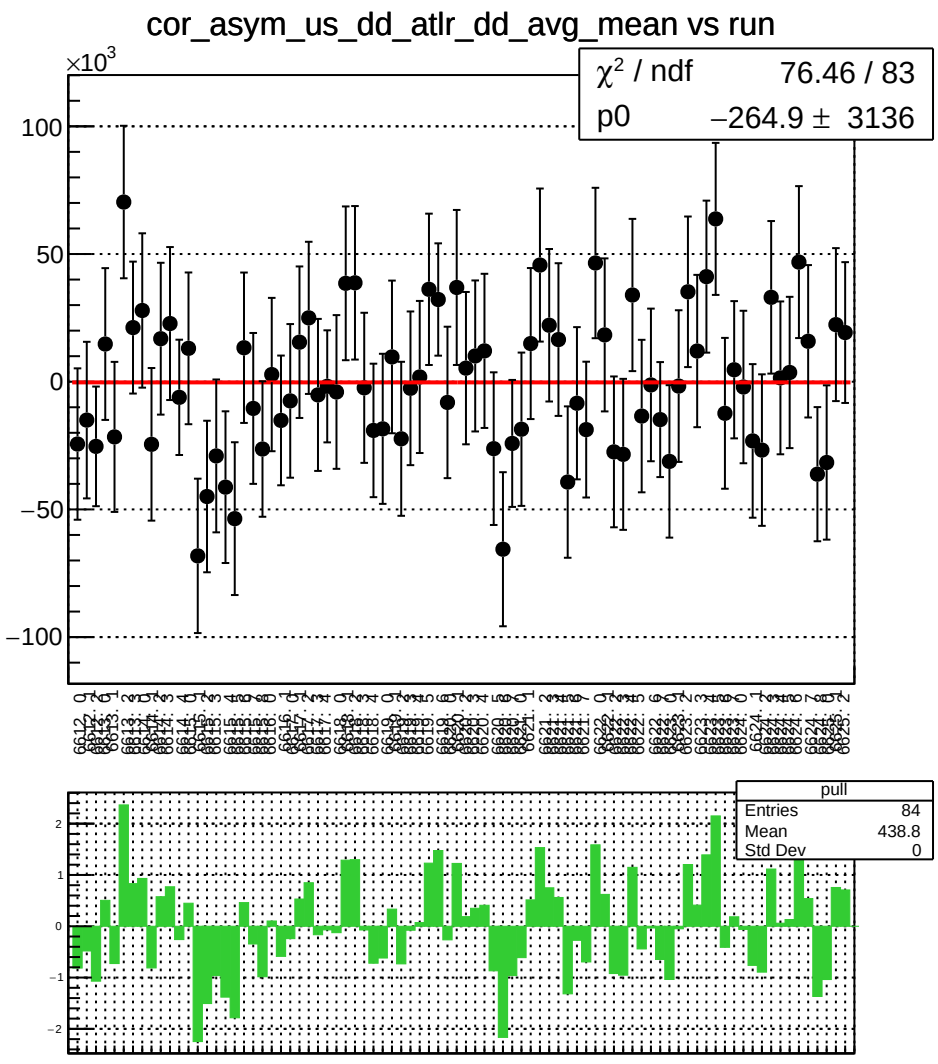

pull1D
Entries 84
Mean 0.007592
Std Dev 0.954
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

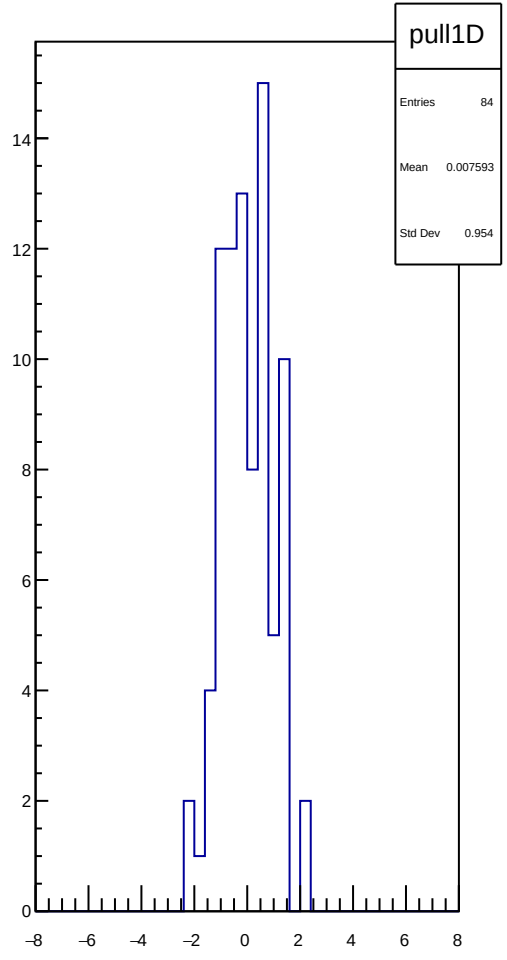

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 168.9 / 83
p0 2833 ± 2.217
3000
2950
2900
2850
2800
2750

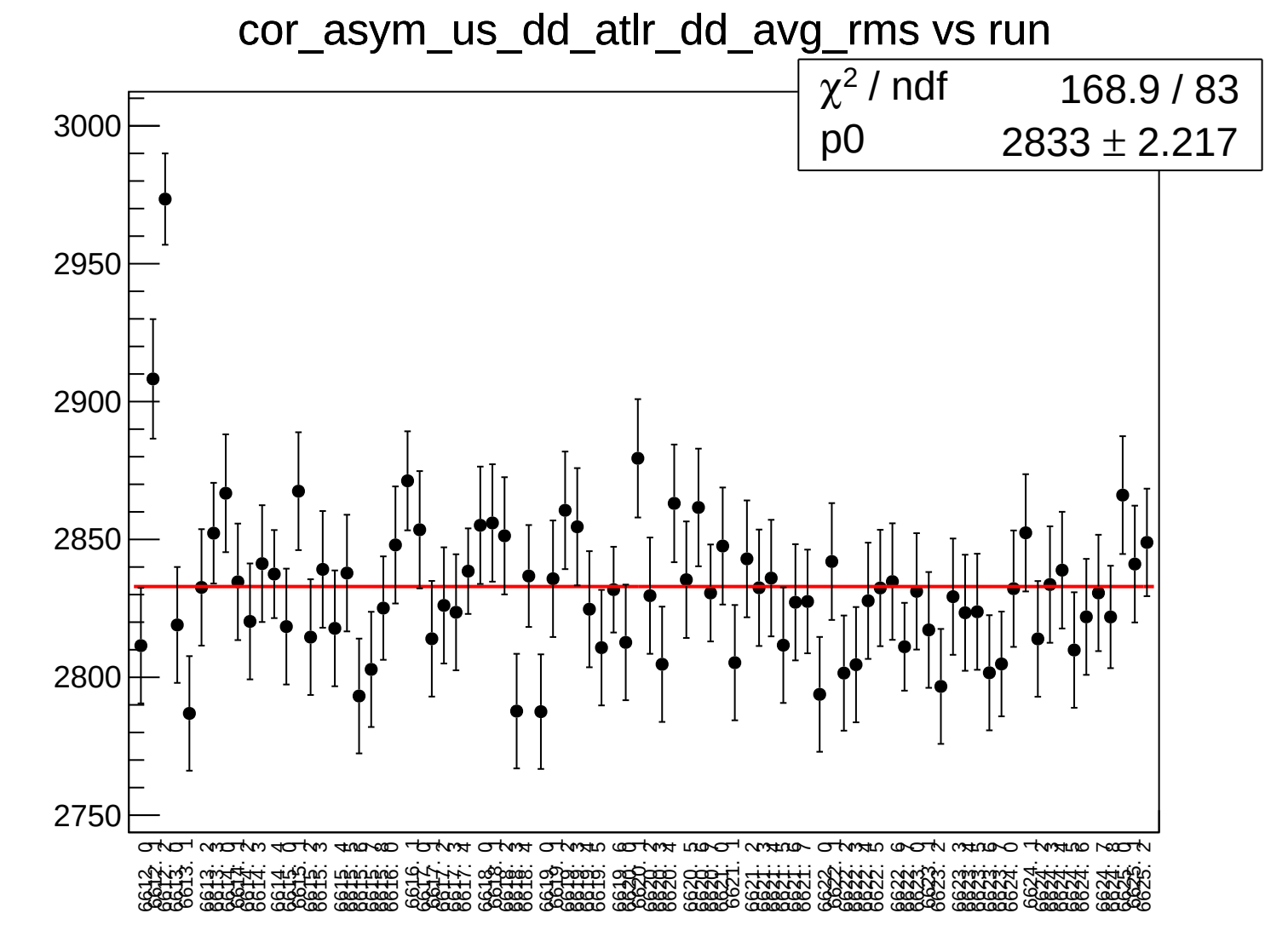

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 74.38 / 83
p0 −1760 ± 2581
pull
Entries 84
Mean −95.58
Std Dev 0

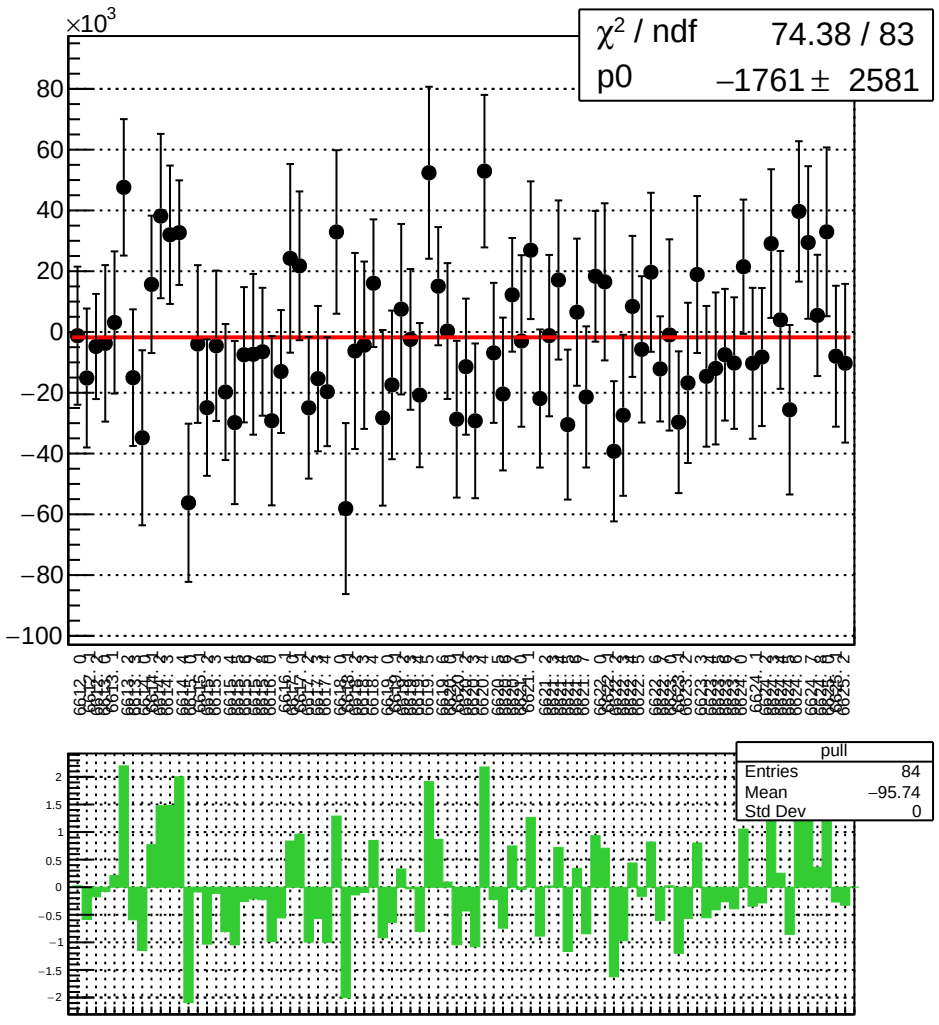

pull1D
Entries 84
Mean −0.01095
Std Dev 0.9409

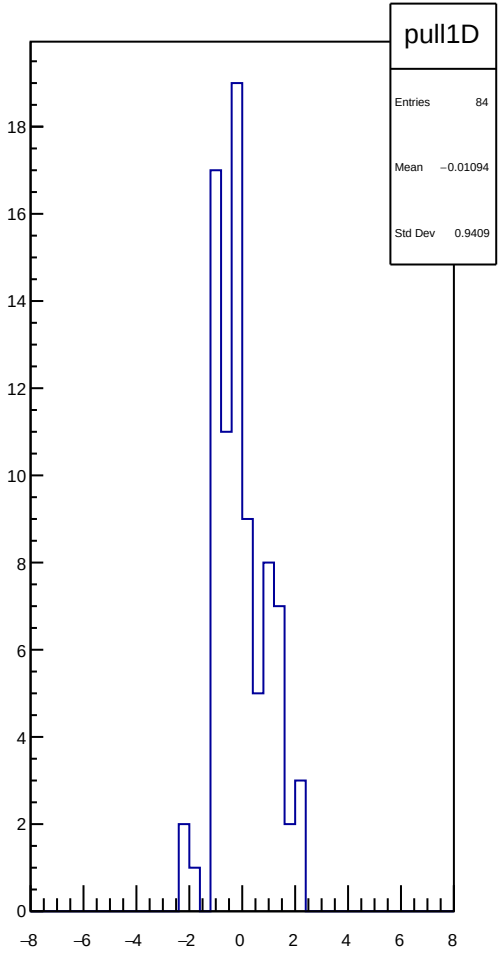

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.213e+04 / 83
p0 2323 ± 1.825
3000
2800
2600
2400
2200
2000

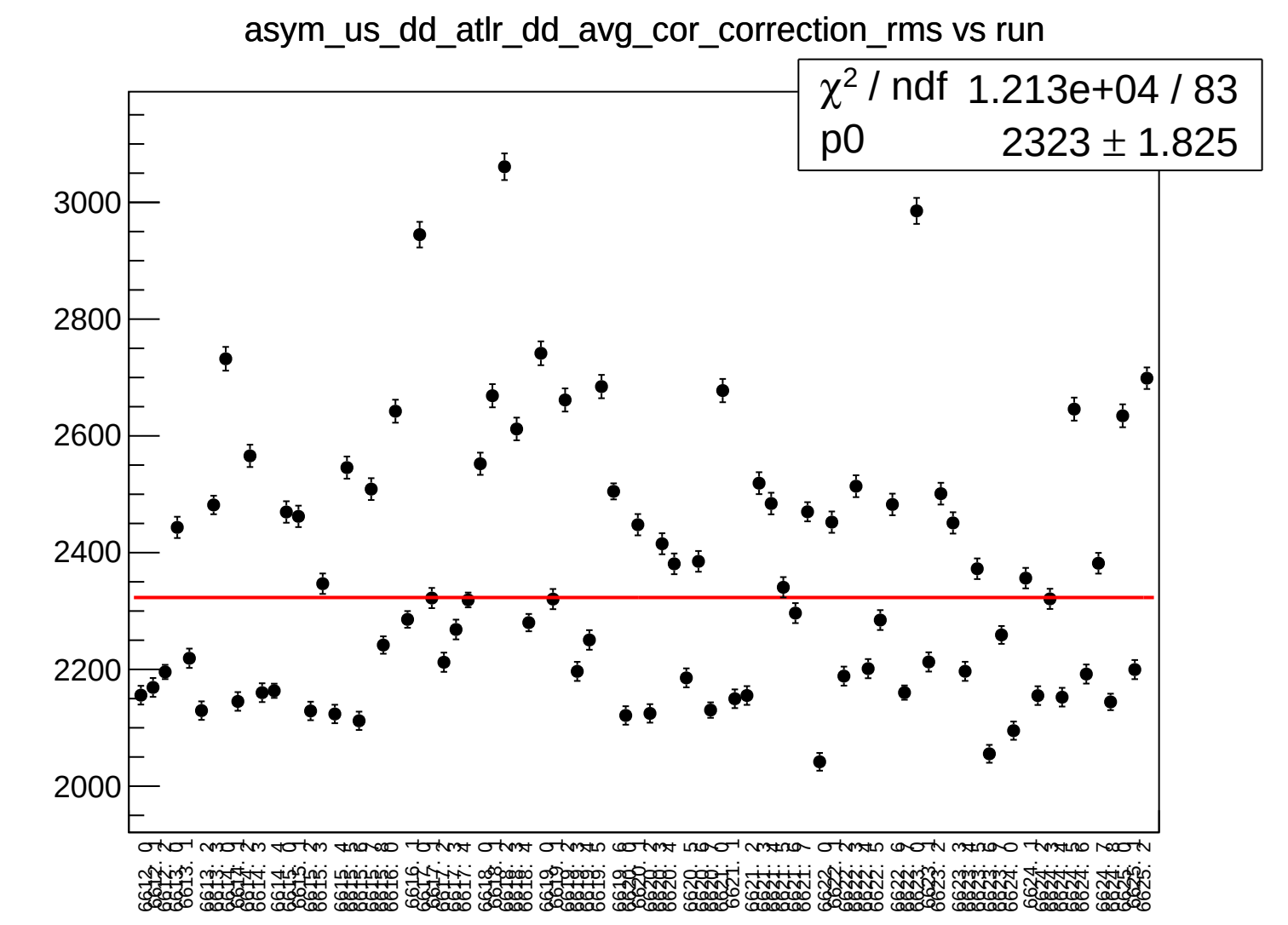

cor_asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 76.46 / 83
p0 −264.9 ± 3136
100
50
0
−50
−100
pull
Entries 84
Mean 438.8
Std Dev 0
2
1
0
−1
−2

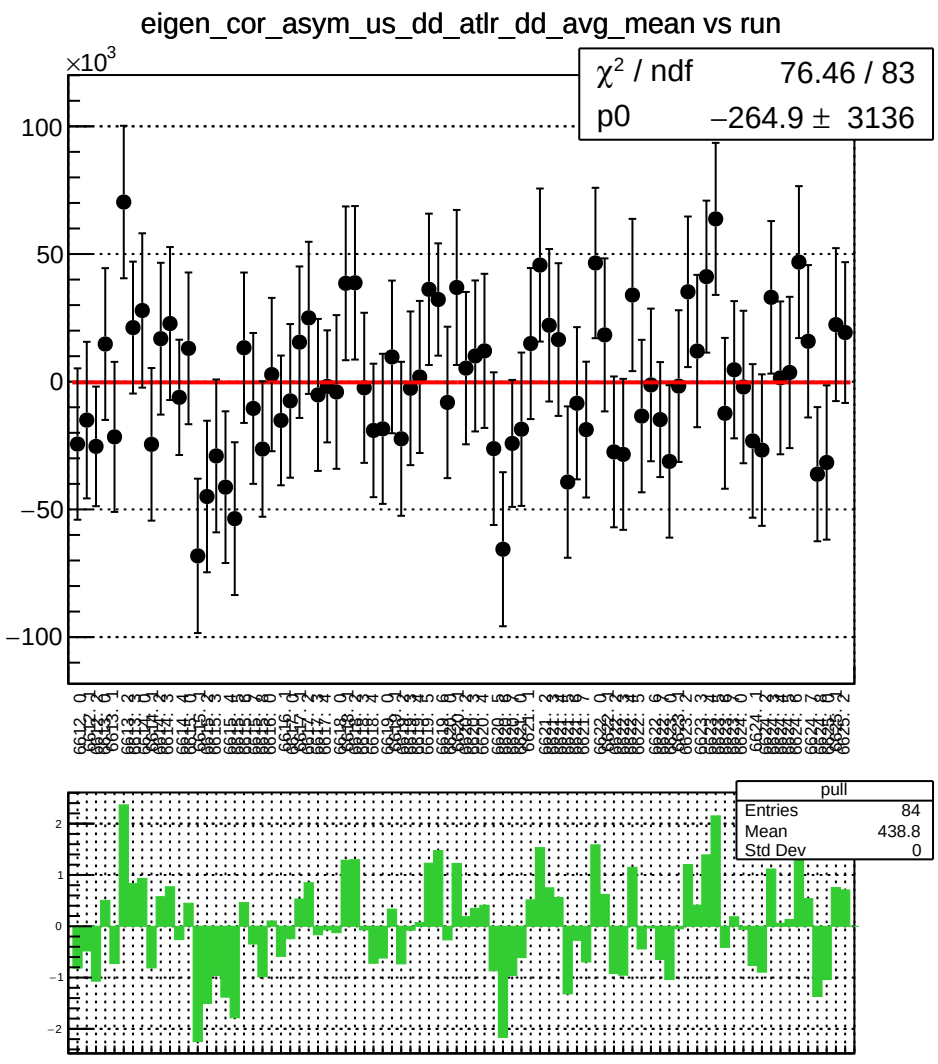

pull1D
Entries 84
Mean 0.007593
Std Dev 0.954
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

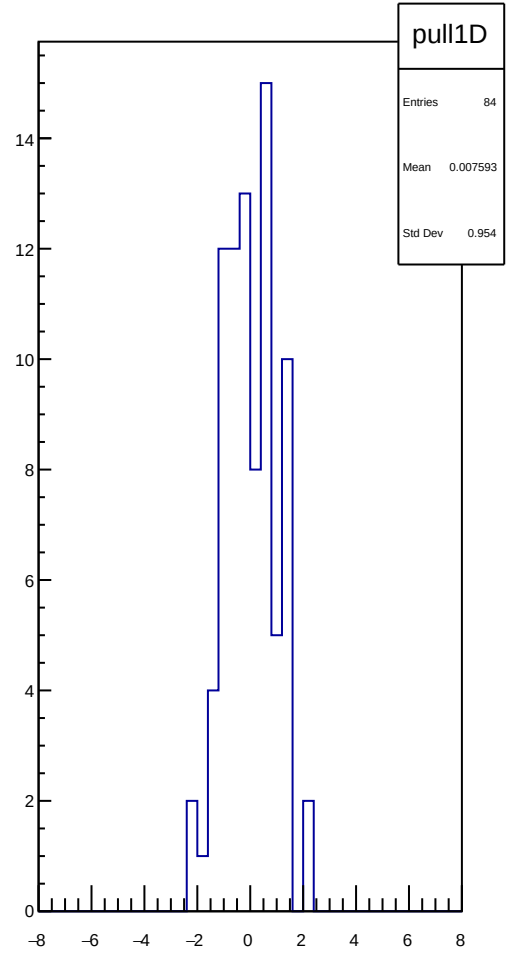

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 168.9 / 83
p0 2833 ± 2.217
3000
2950
2900
2850
2800
2750

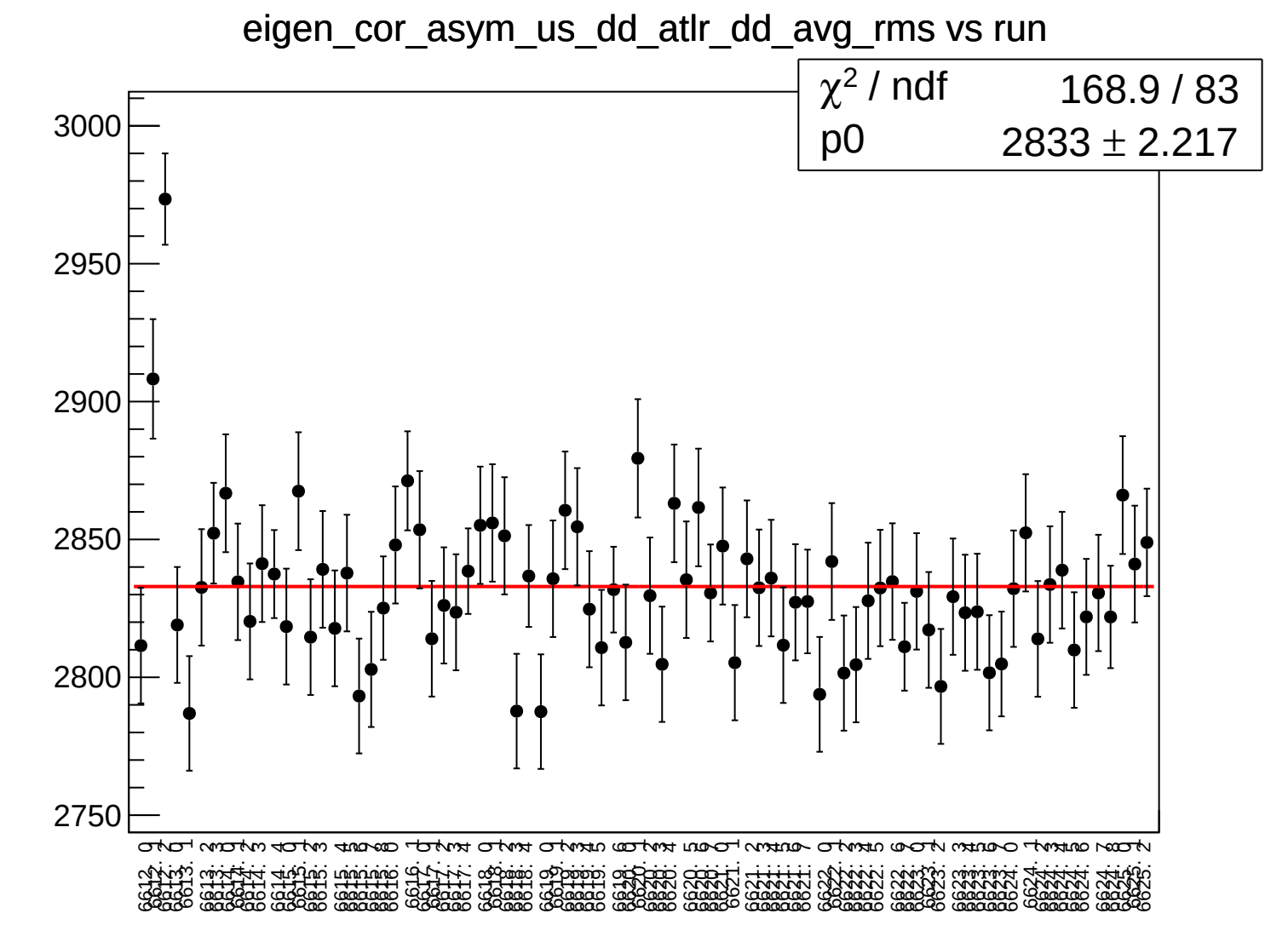

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 74.38 / 83
p0 −1761 ± 2581
pull
Entries 84
Mean −95.74
Std Dev 0

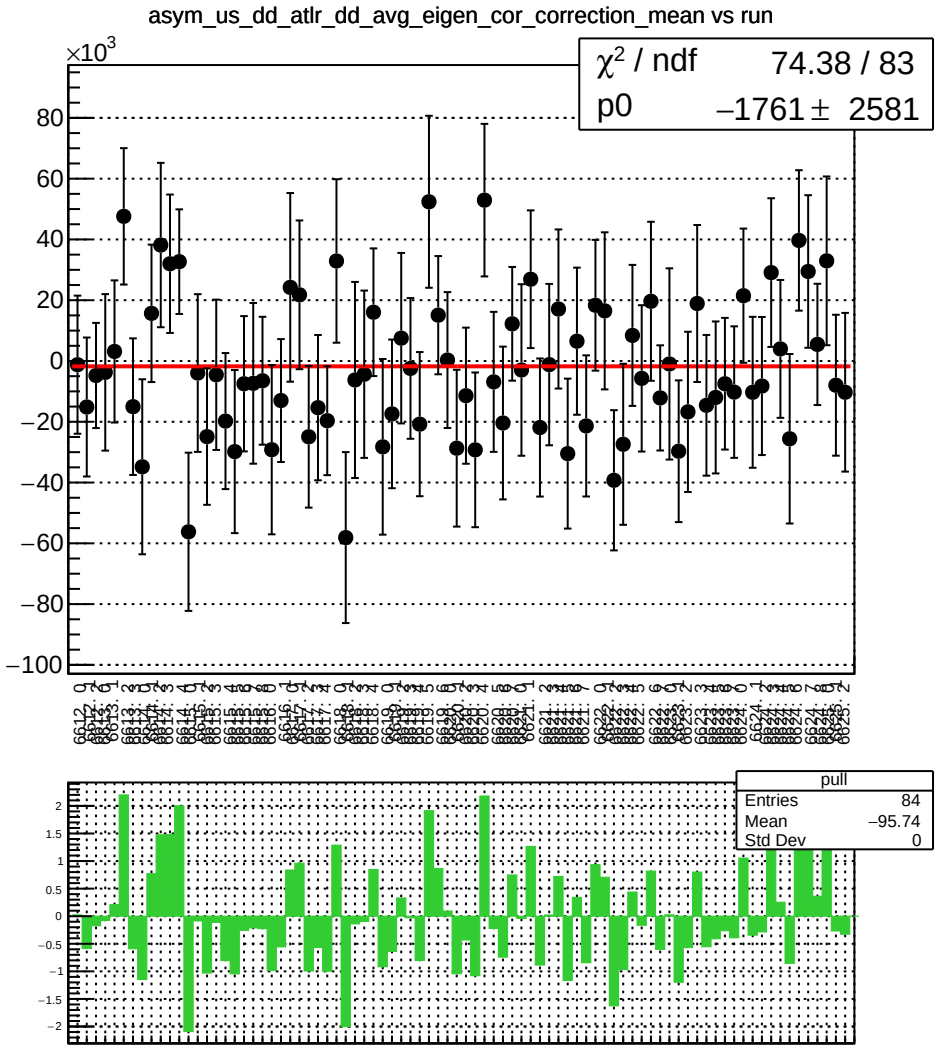

pull1D
Entries 84
Mean −0.01094
Std Dev 0.9409

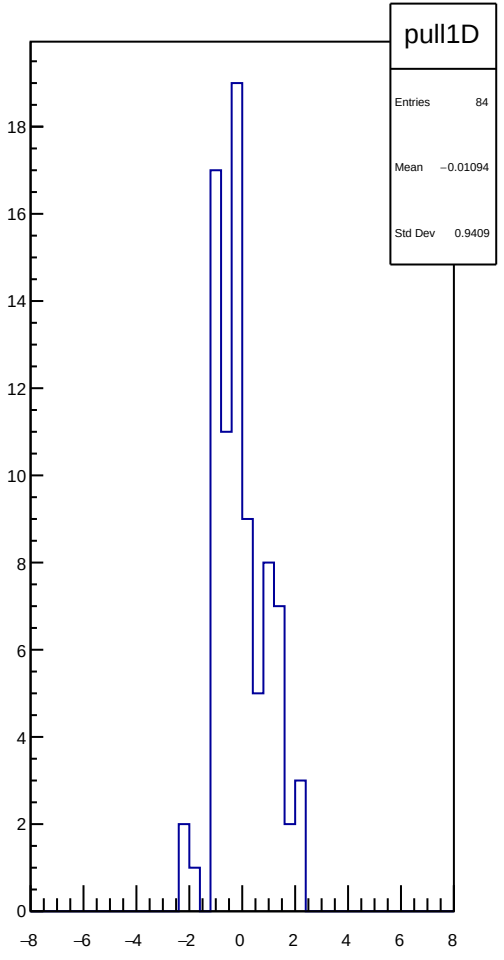

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.213e+04 / 83
p0 2323 ± 1.825
3000
2800
2600
2400
2200
2000

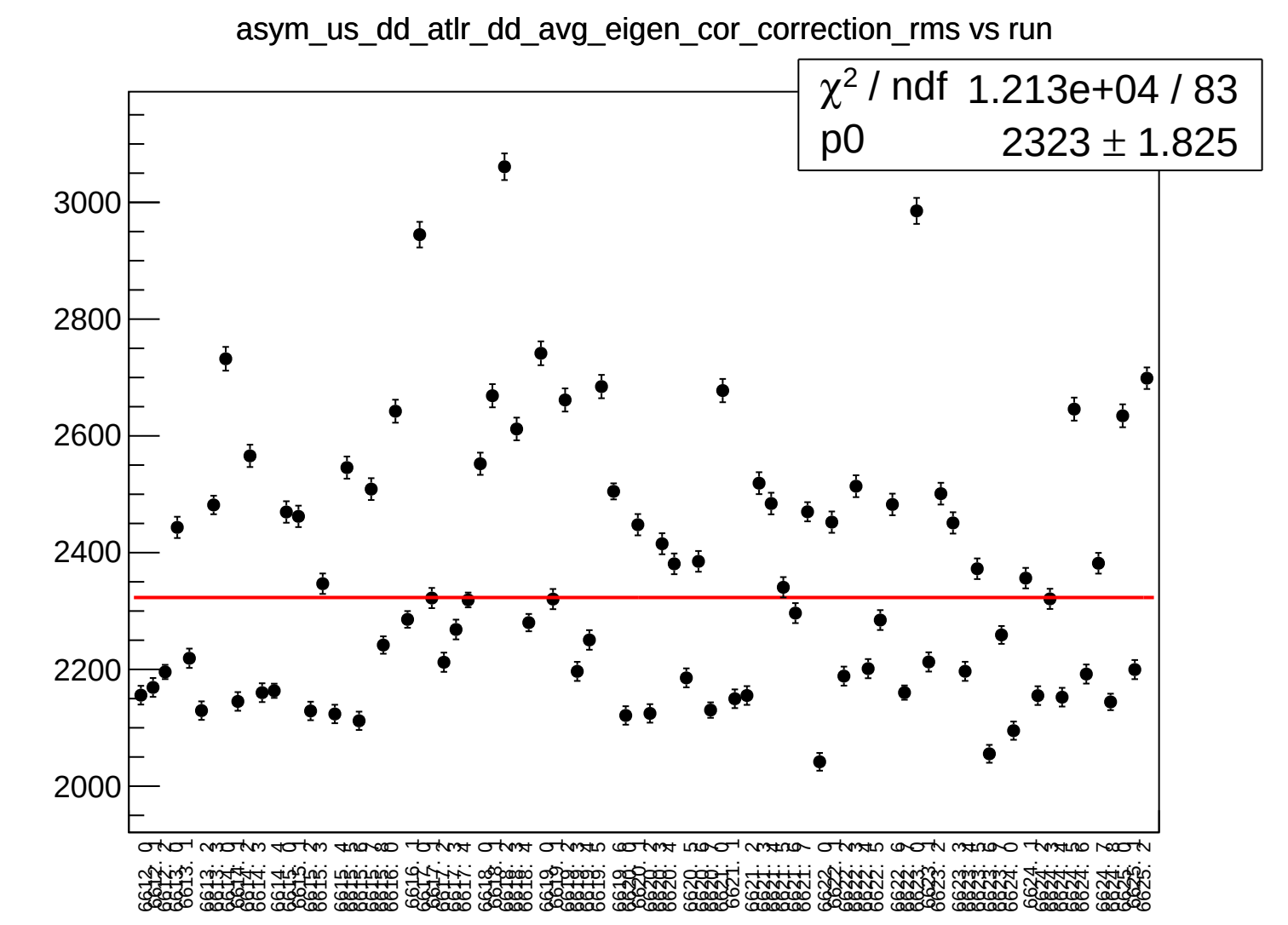

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 76.46 / 83
p0 −264.9 ± 3136
×10³
pull
Entries 84
Mean 438.8
Std Dev 0

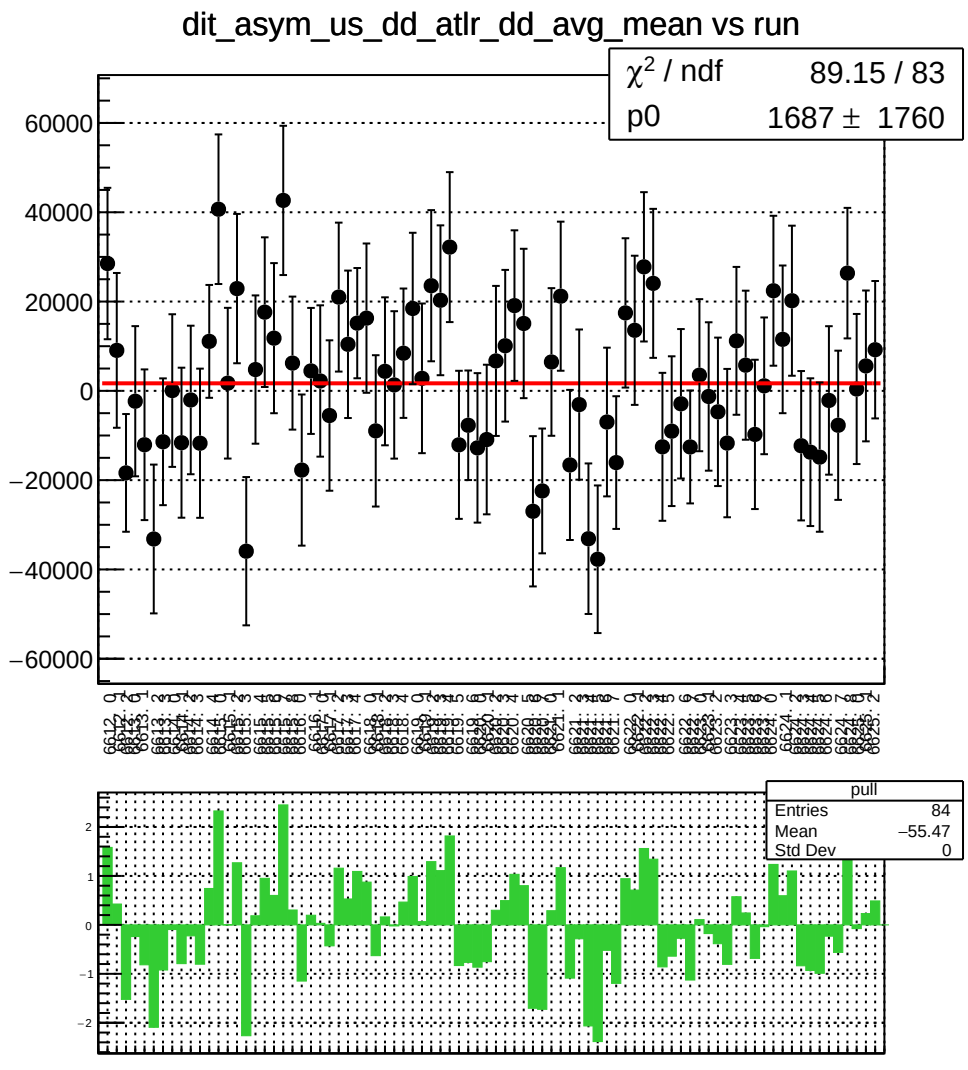

pull1D
Entries 84
Mean 0.007593
Std Dev 0.954

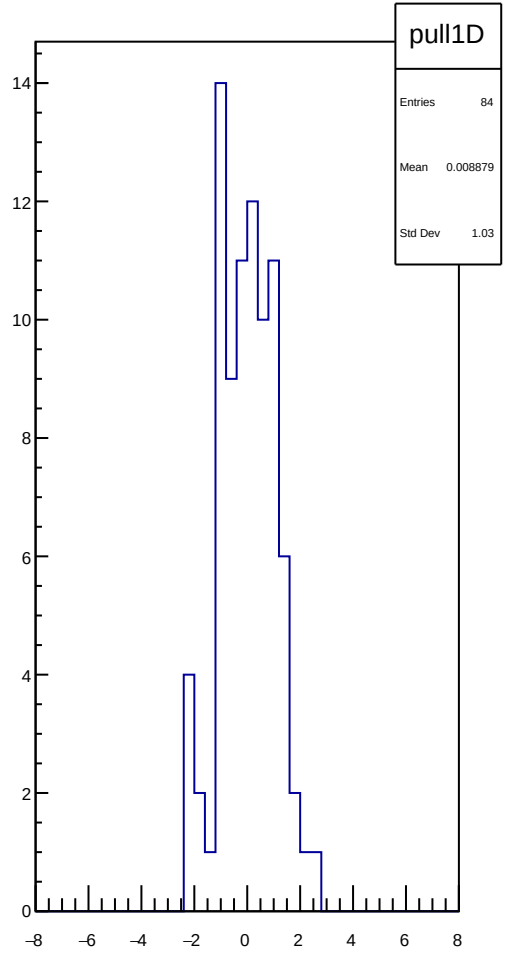

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 168.9 / 83
p0 2833 ± 2.217
3000
2950
2900
2850
2800
2750

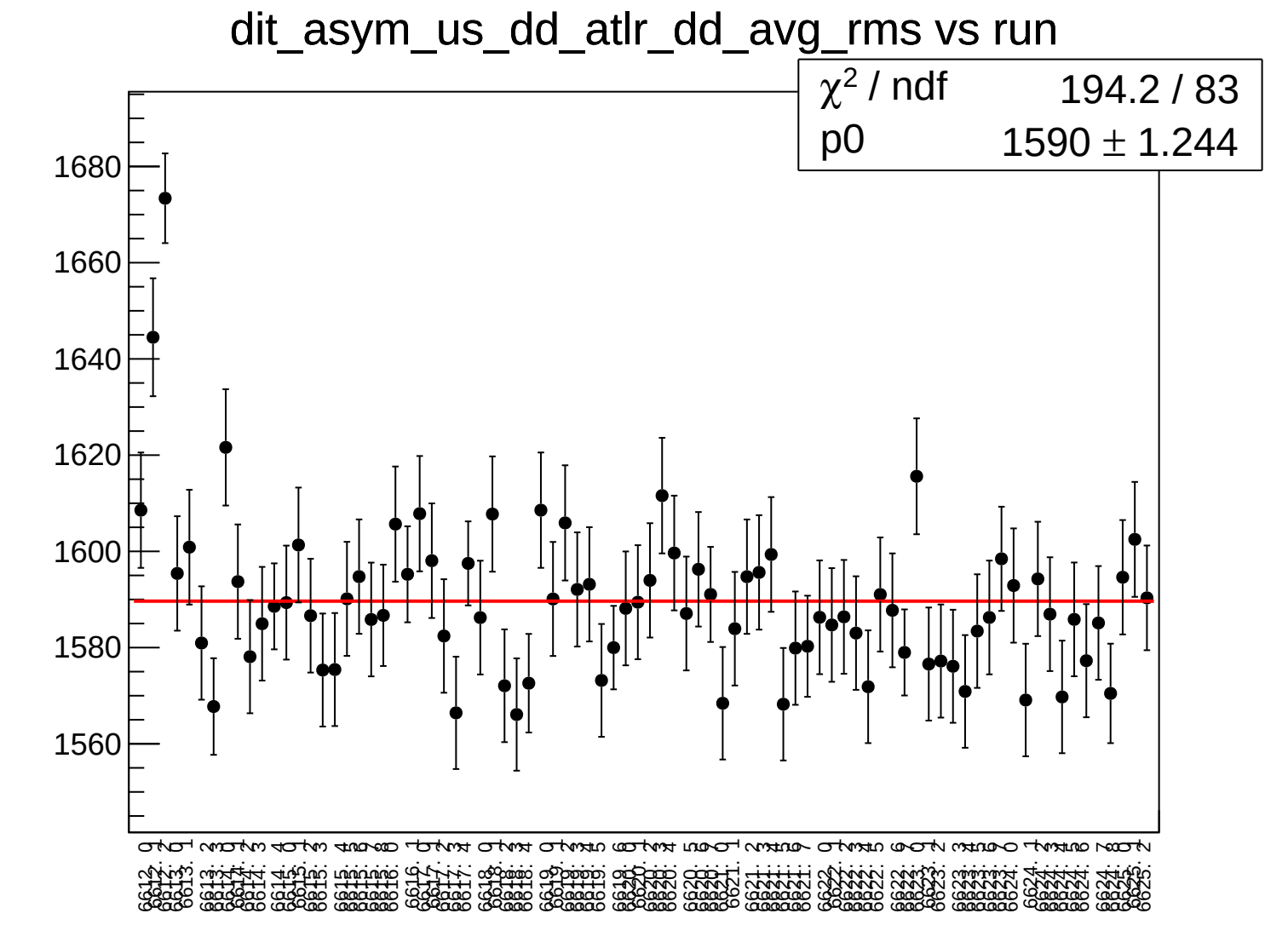

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.38 / 83
p0 −1761 ± 2581
pull
Entries 84
Mean −95.74
Std Dev 0

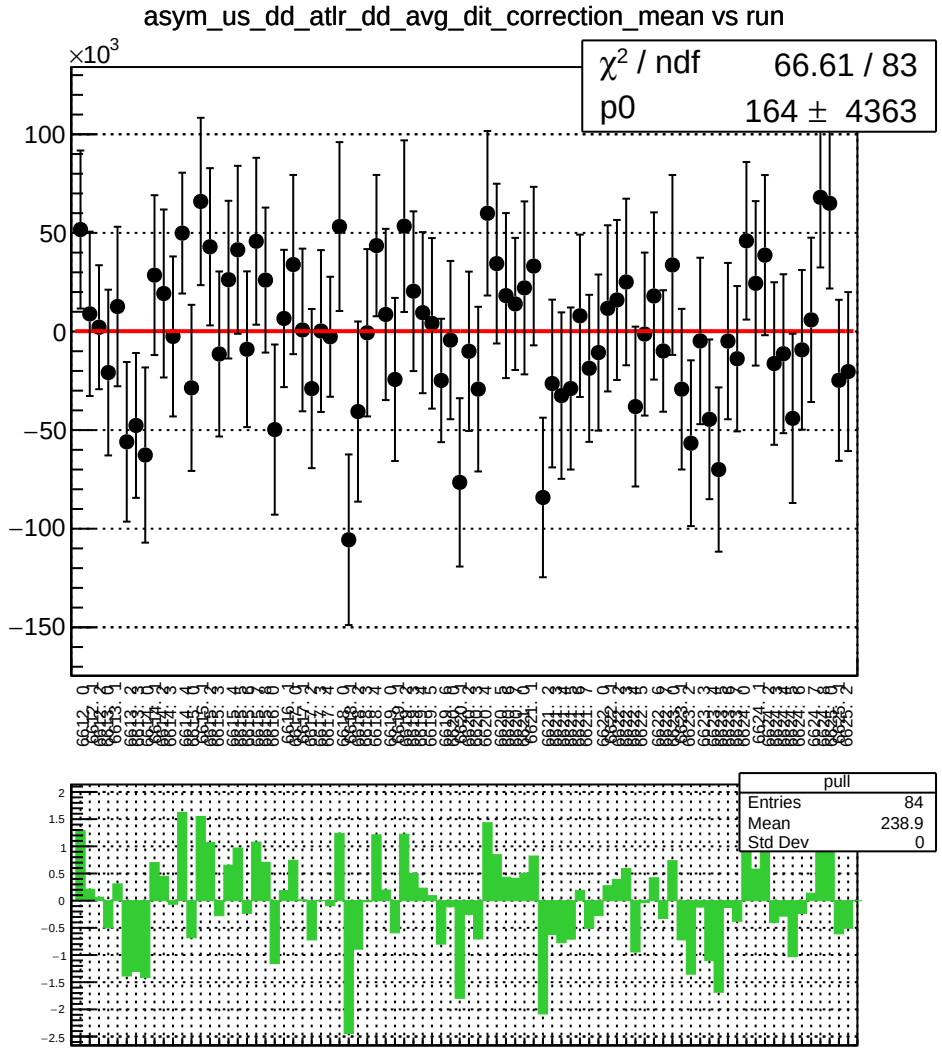

pull1D
Entries 84
Mean −0.01094
Std Dev 0.9409

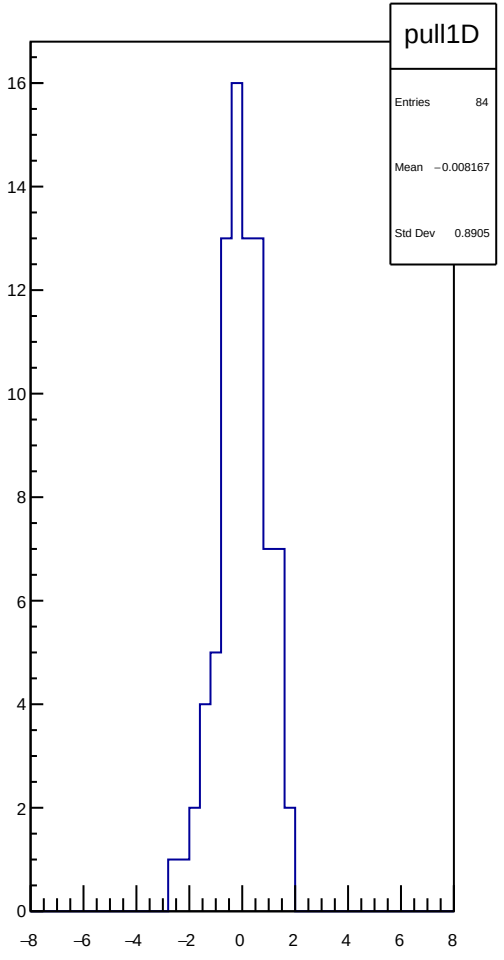

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.213e+04 / 83
p0 2323 ± 1.825
3000
2800
2600
2400
2200
2000

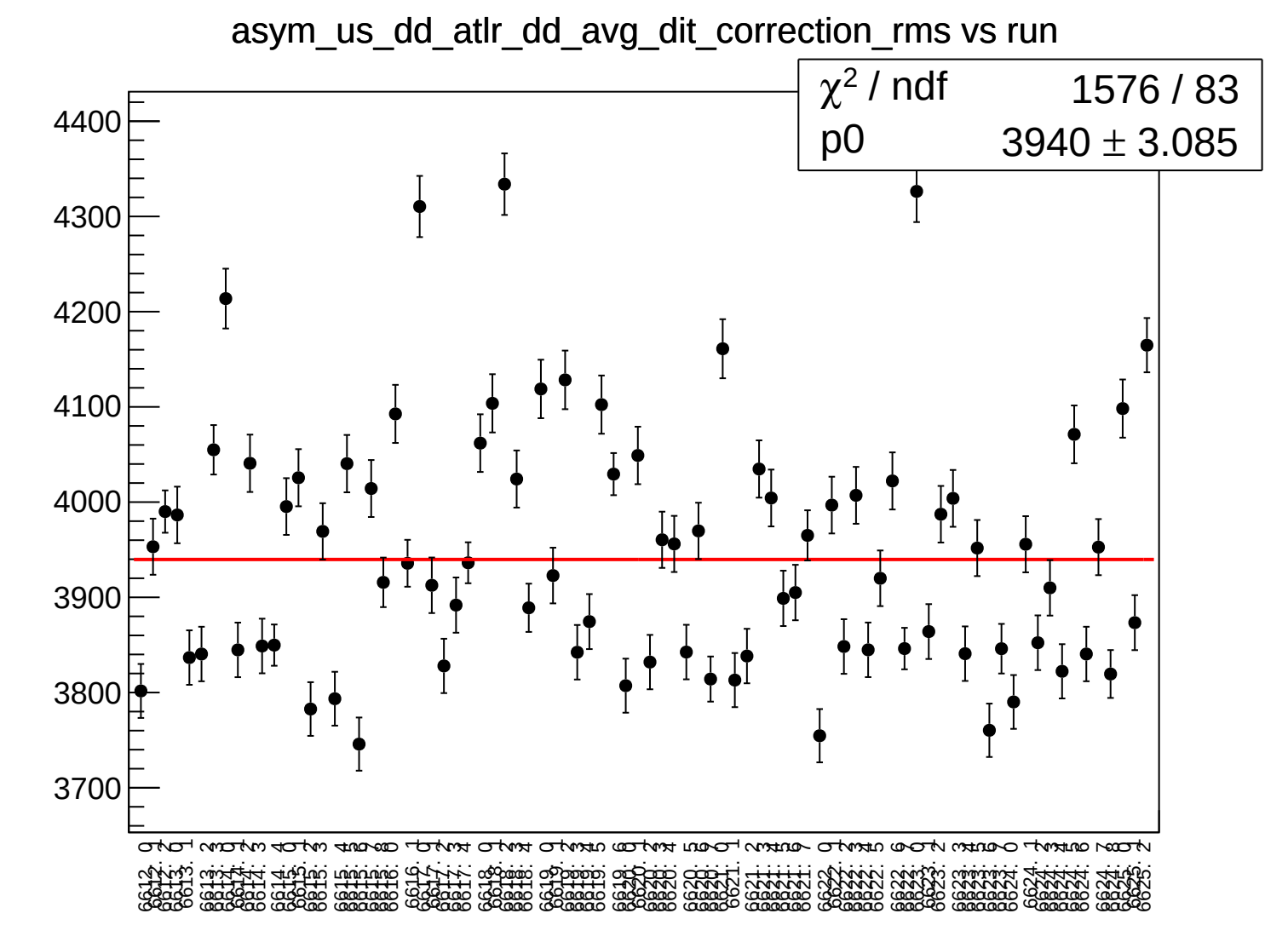

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 89.15 / 83
p0 1687 ± 1760
pull
Entries 84
Mean −55.47
Std Dev 0

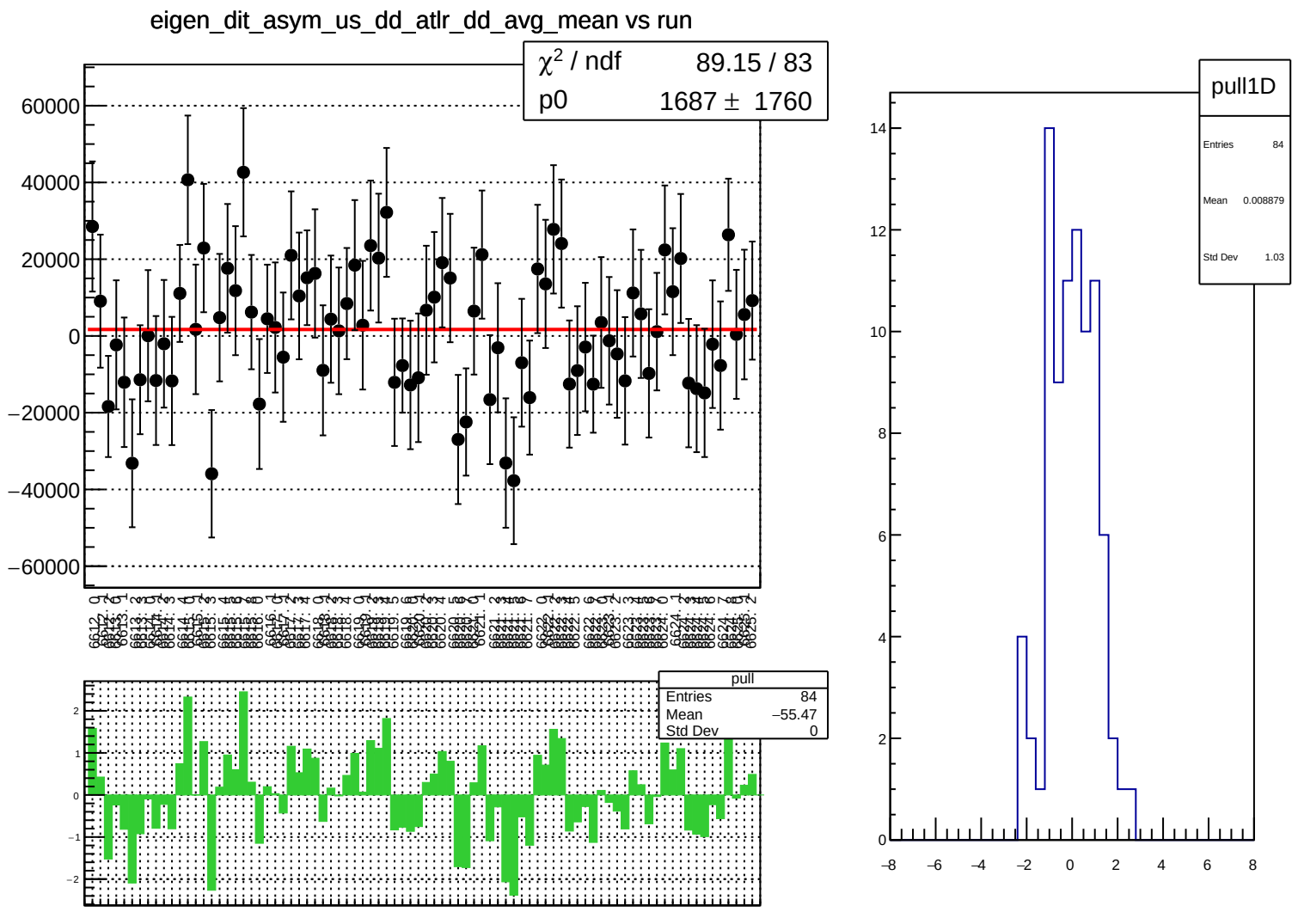

pull1D
Entries 84
Mean 0.008879
Std Dev 1.03

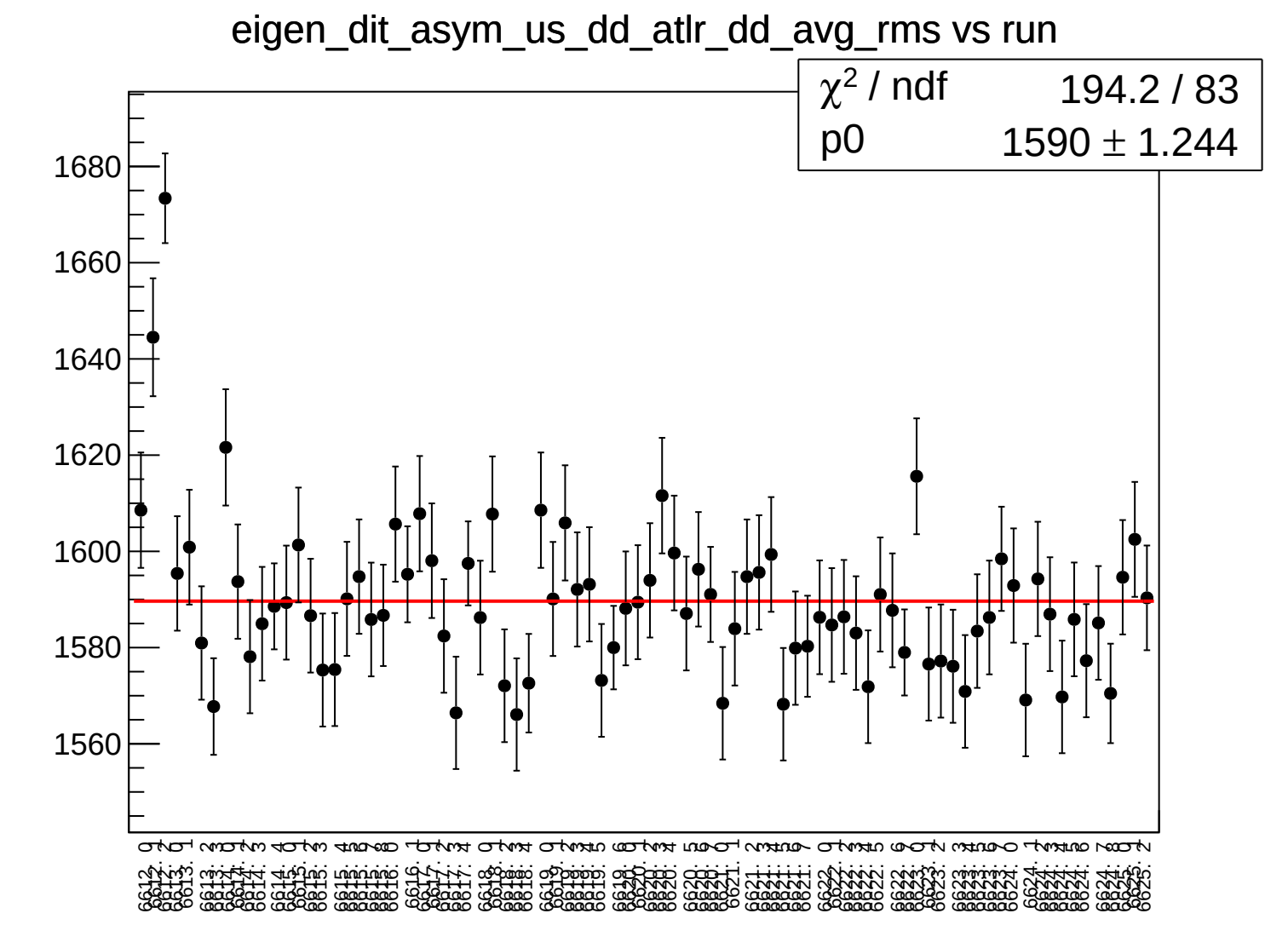

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 194.2 / 83
p0 1590 ± 1.244
1680
1660
1640
1620
1600
1580
1560

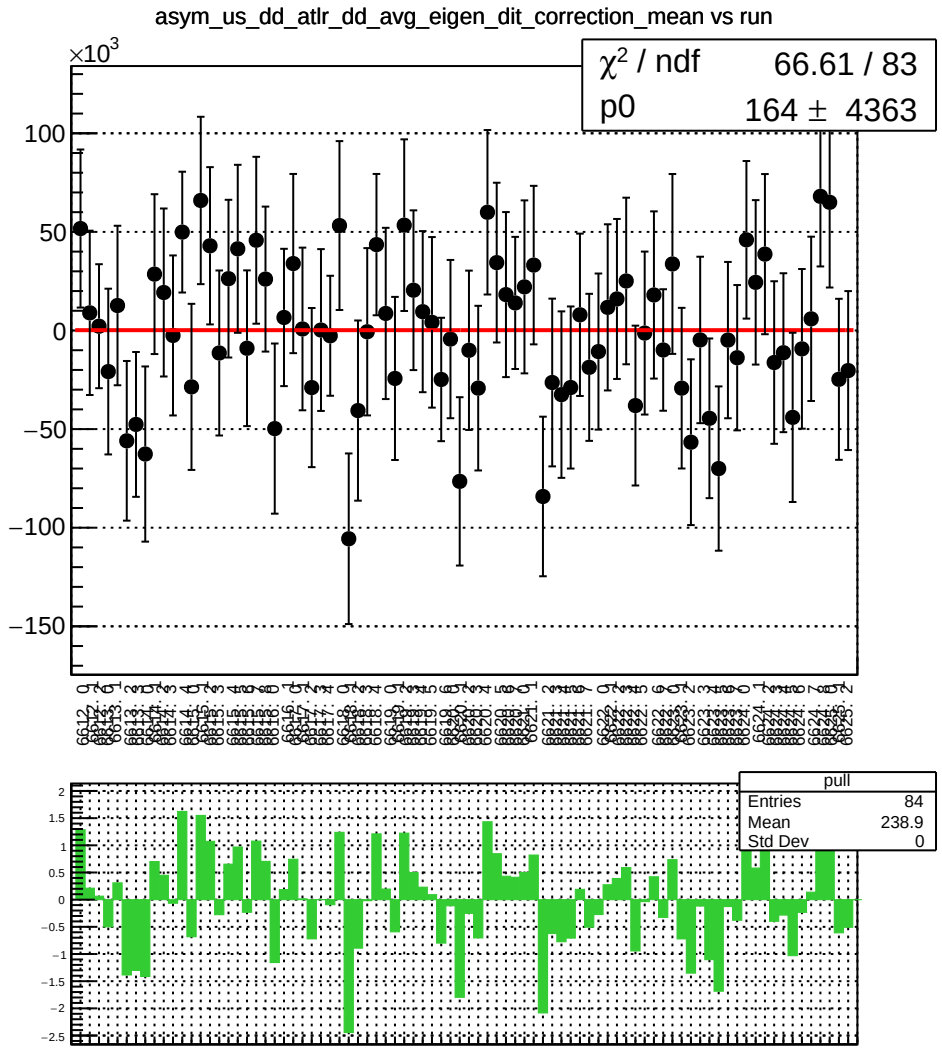

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 66.61 / 83
p0 164 ± 4363
100
50
0
−50
−100
−150
pull
Entries 84
Mean 238.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

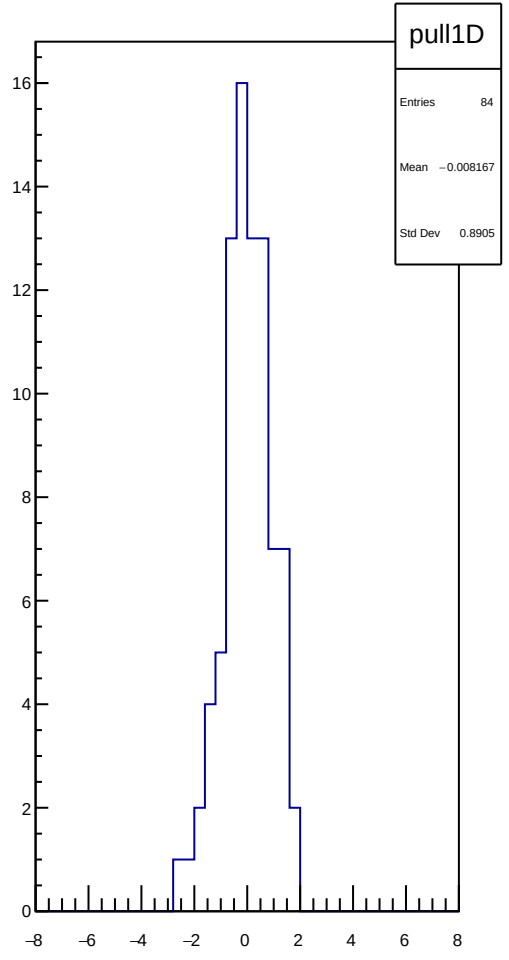

pull1D
Entries 84
Mean −0.008167
Std Dev 0.8905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

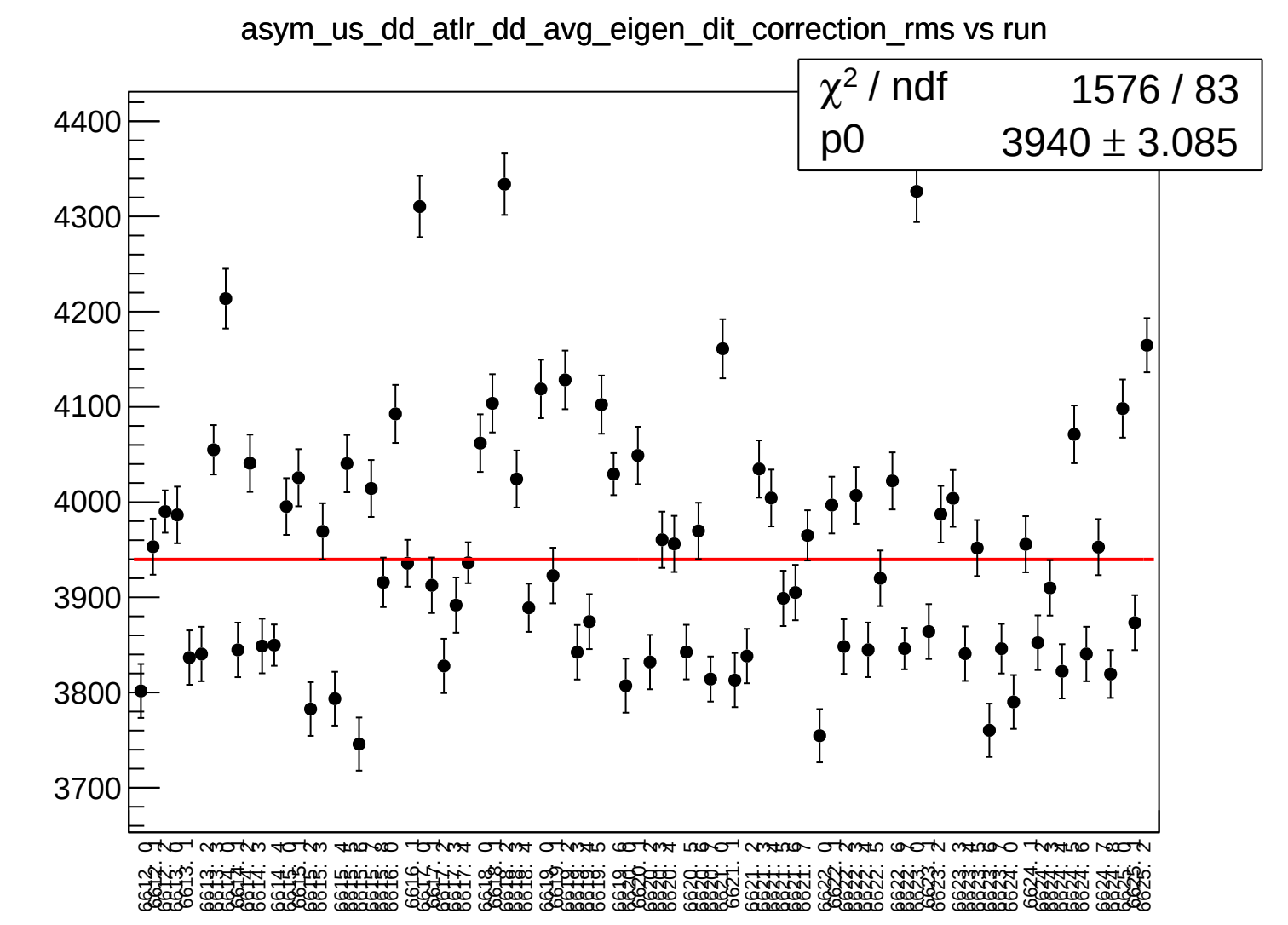

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 1576 / 83
p0 3940 ± 3.085
4400
4300
4200
4100
4000
3900
3800
3700

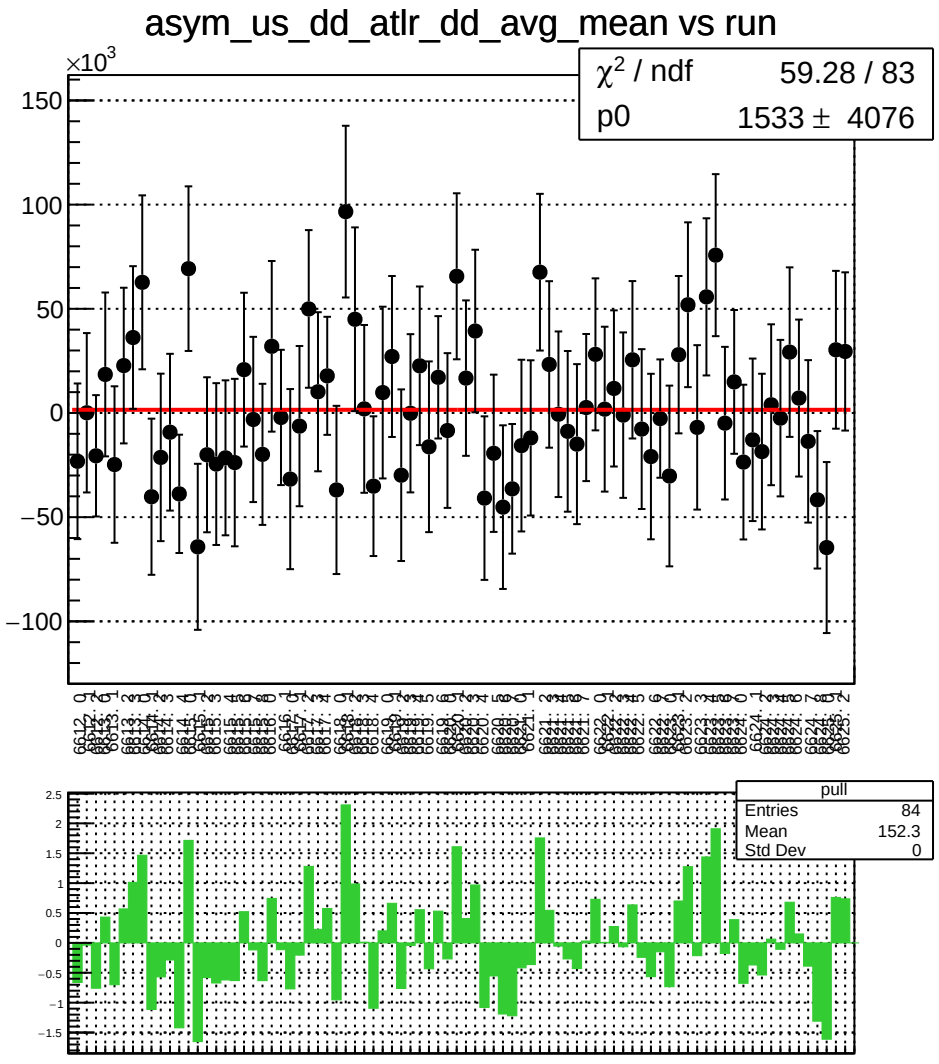

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 89.15 / 83
p0 1687 ± 1760
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −55.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.008879
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

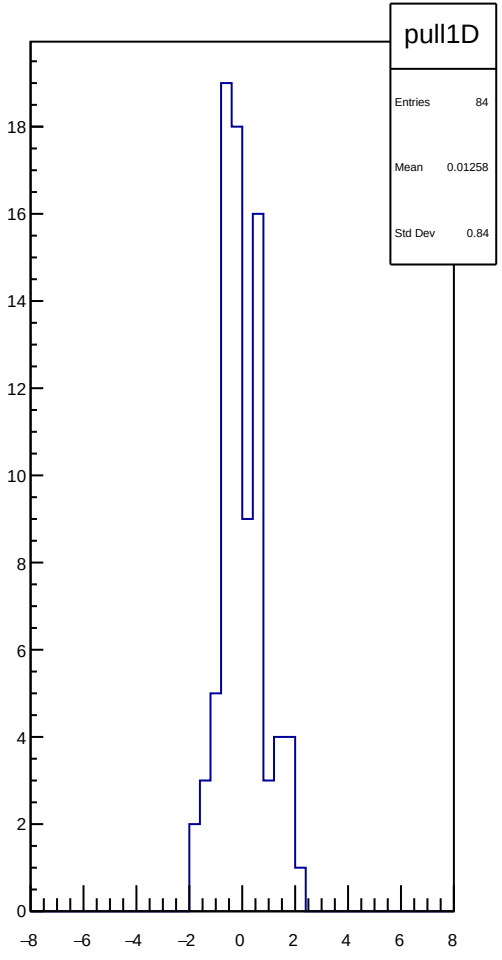

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 194.2 / 83
p0 1590 ± 1.244
1680
1660
1640
1620
1600
1580
1560

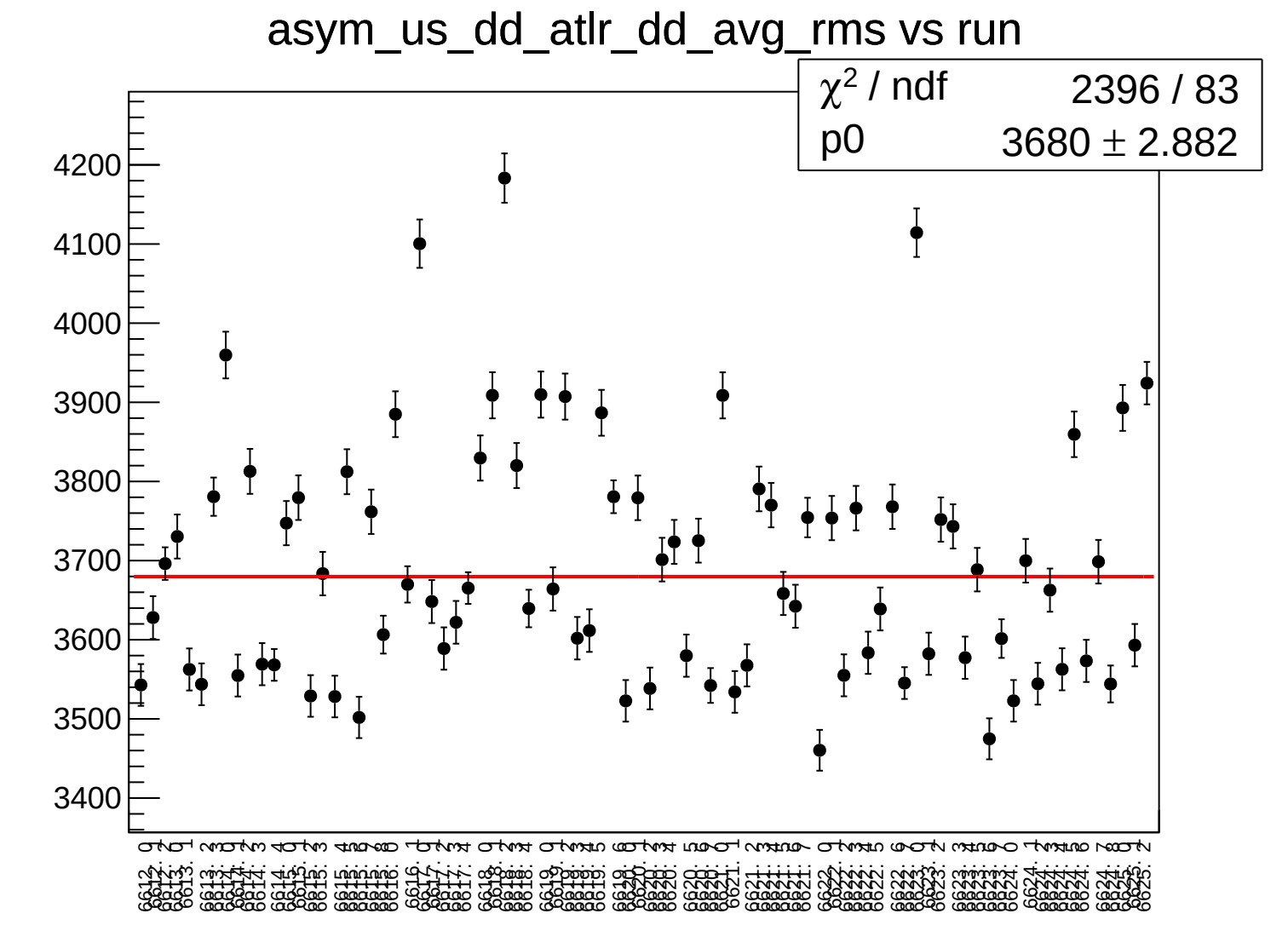

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.61 / 83
p0 164 ± 4363
100
50
0
−50
−100
−150
pull
Entries 84
Mean 238.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

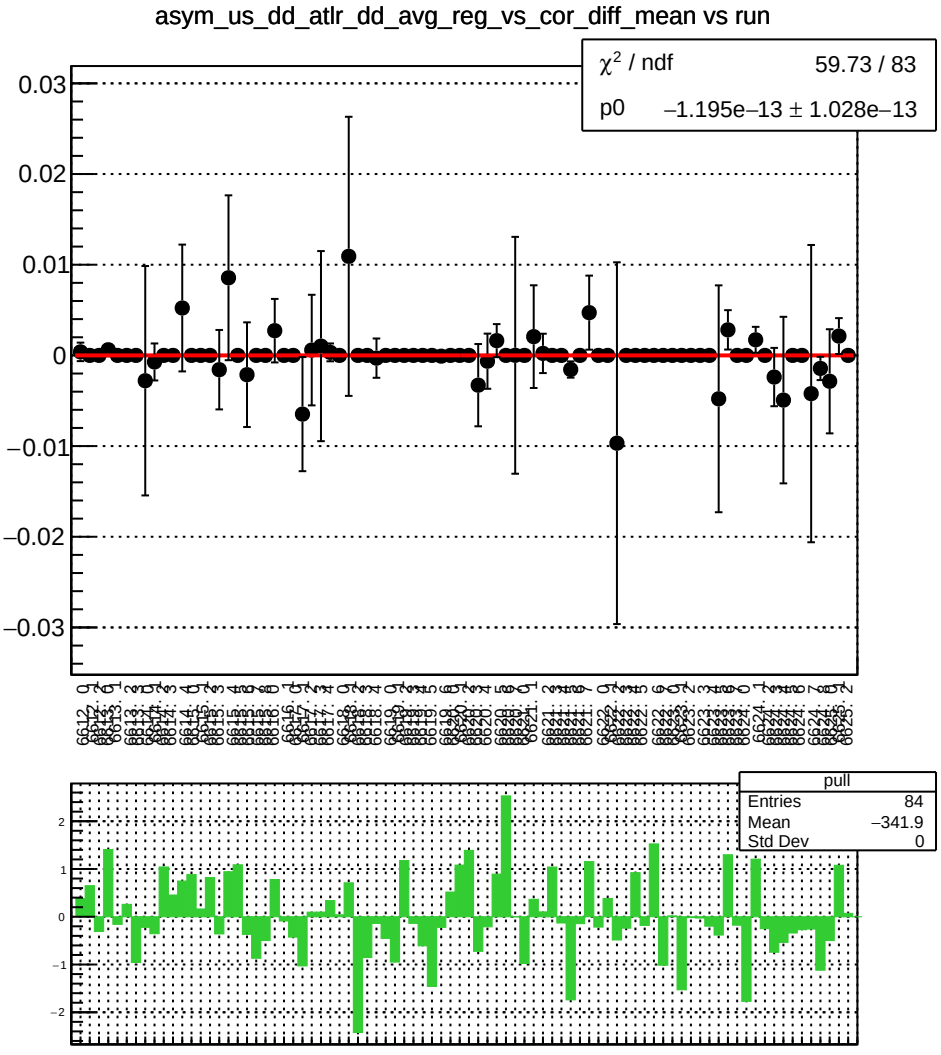

pull1D
Entries 84
Mean −0.008167
Std Dev 0.8905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

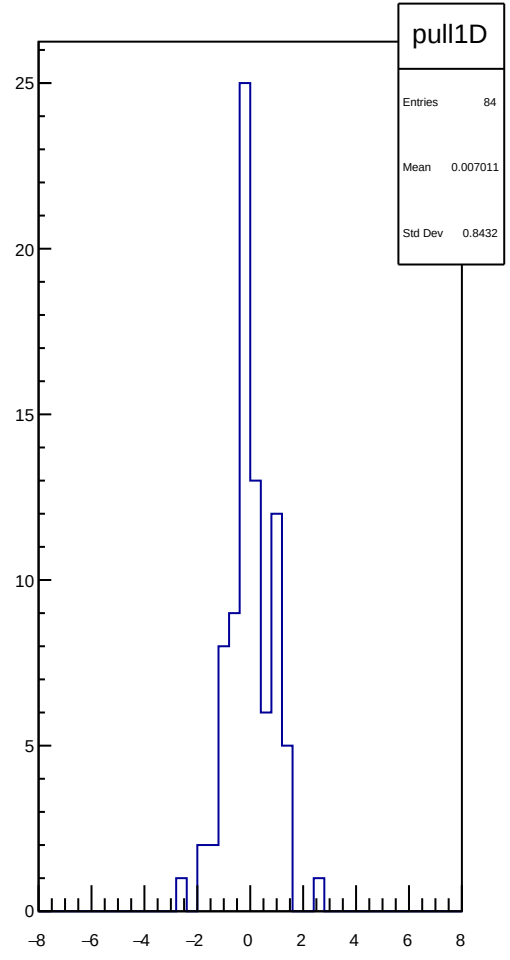

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1576 / 83
p0 3940 ± 3.085
4400
4300
4200
4100
4000
3900
3800
3700

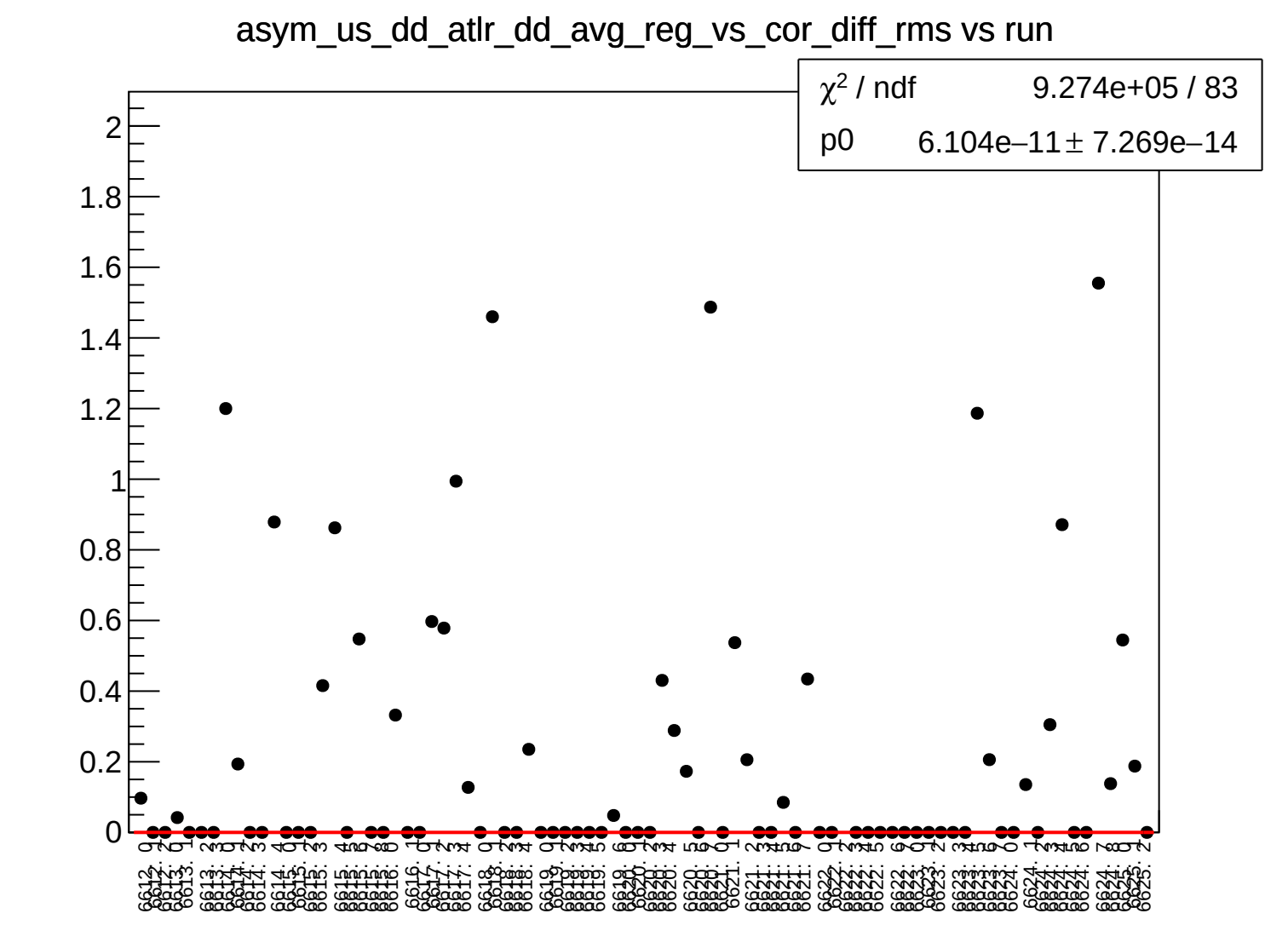

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 59.28 / 83
p0 1533 ± 4076
150
100
50
0
−50
−100
pull
Entries 84
Mean 152.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

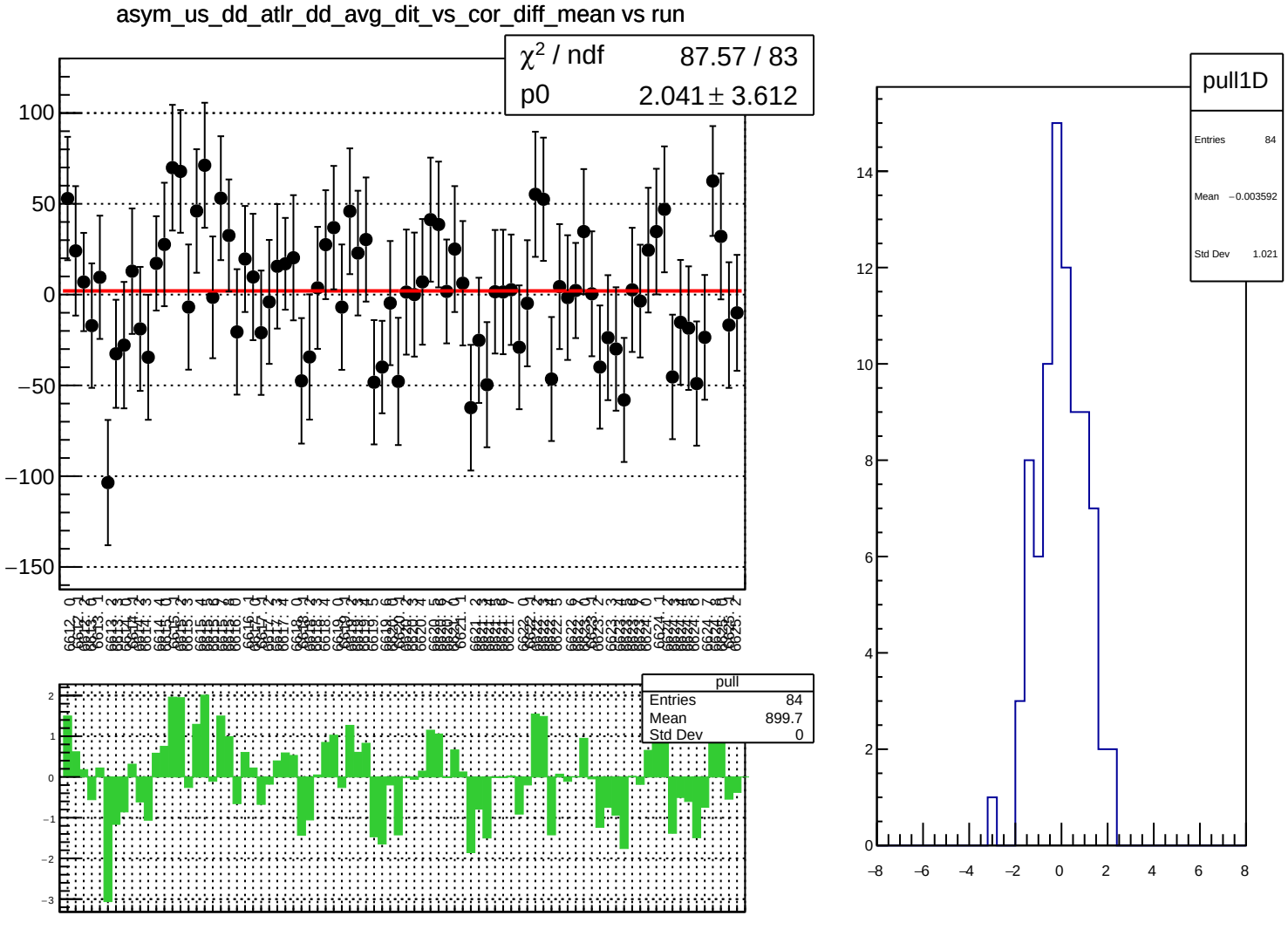

pull1D
Entries 84
Mean 0.01258
Std Dev 0.84
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

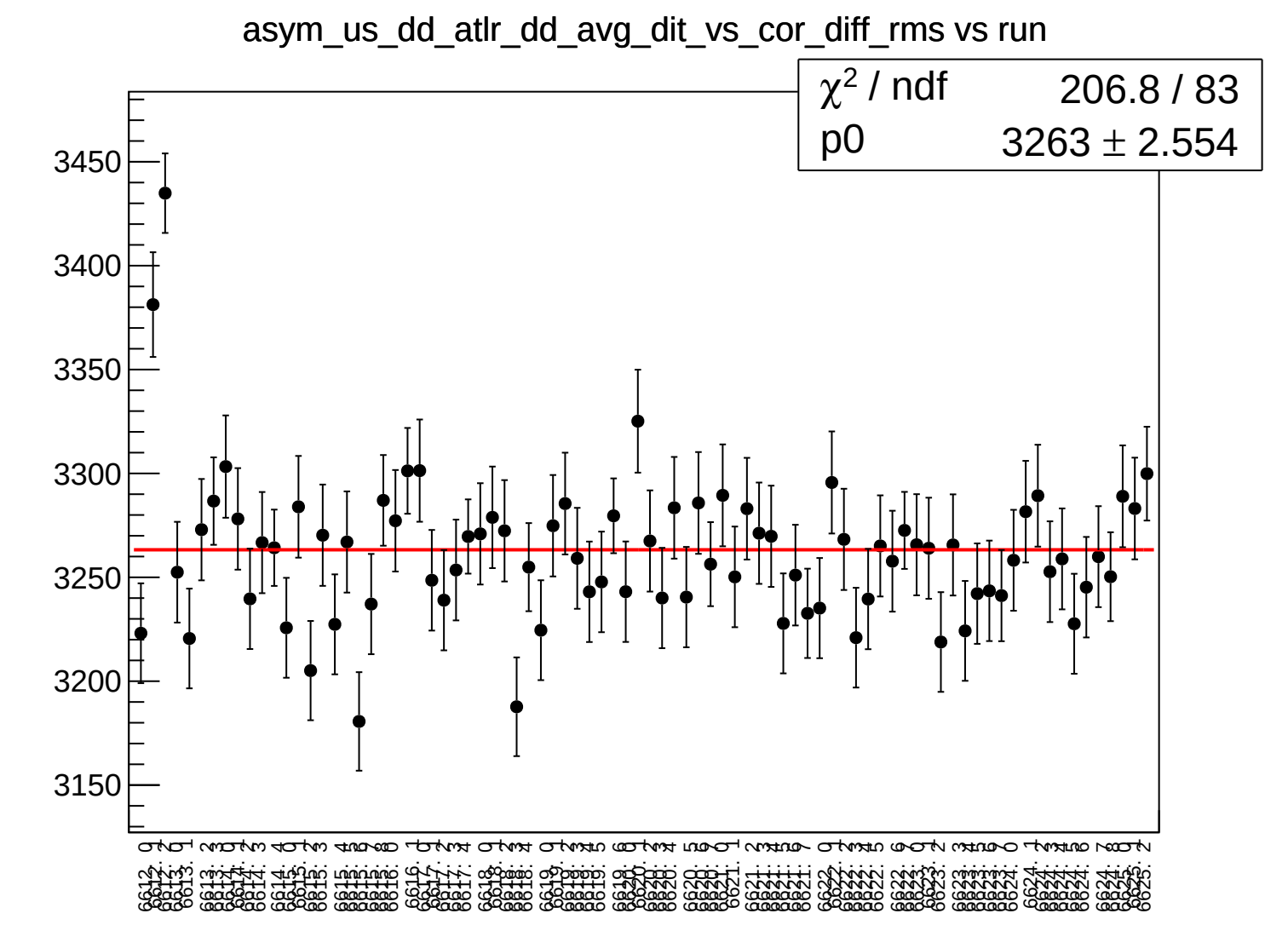

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 2396 / 83
p0 3680 ± 2.882
4200
4100
4000
3900
3800
3700
3600
3500
3400

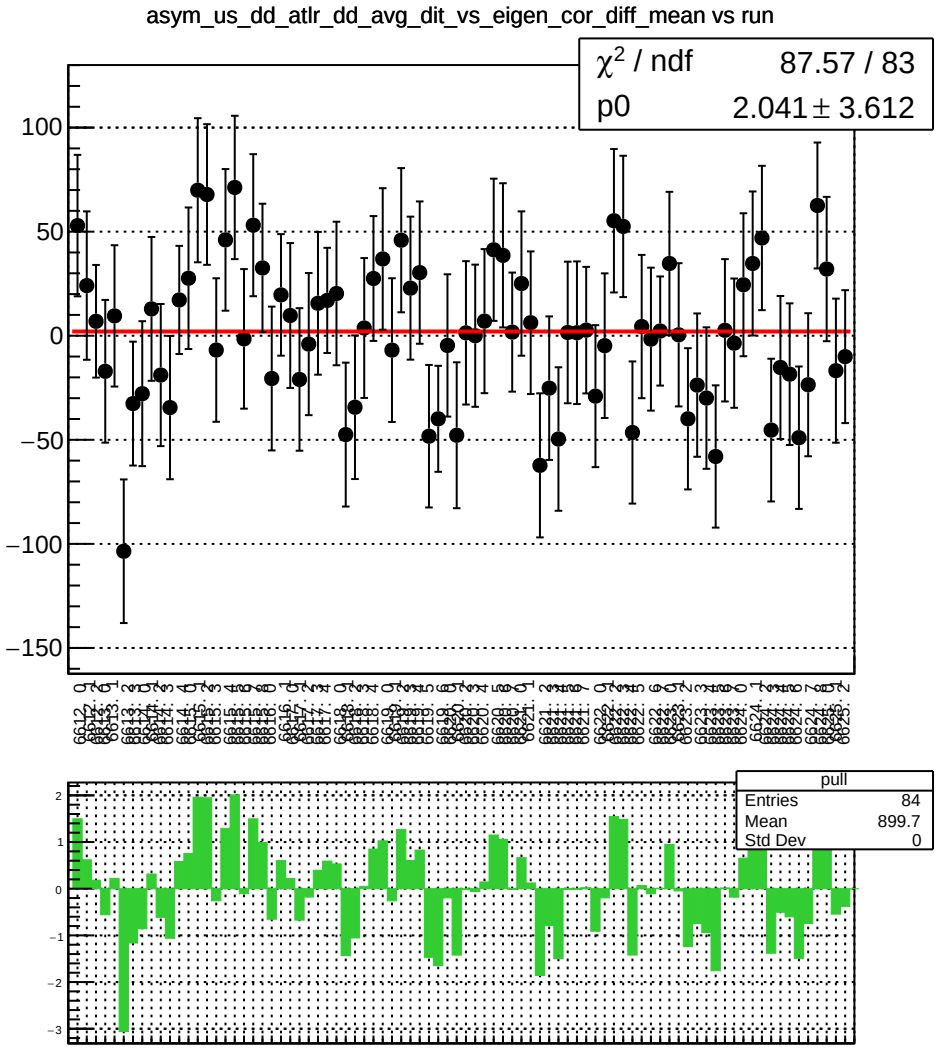

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 59.73 / 83
p0 −1.195e−13 ± 1.028e−13
pull
Entries 84
Mean −341.9
Std Dev 0

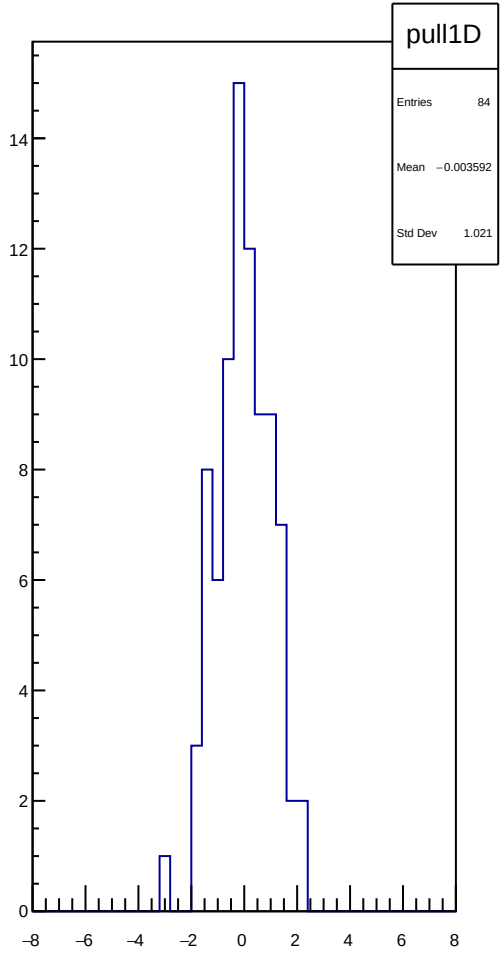

pull1D
Entries 84
Mean 0.007011
Std Dev 0.8432

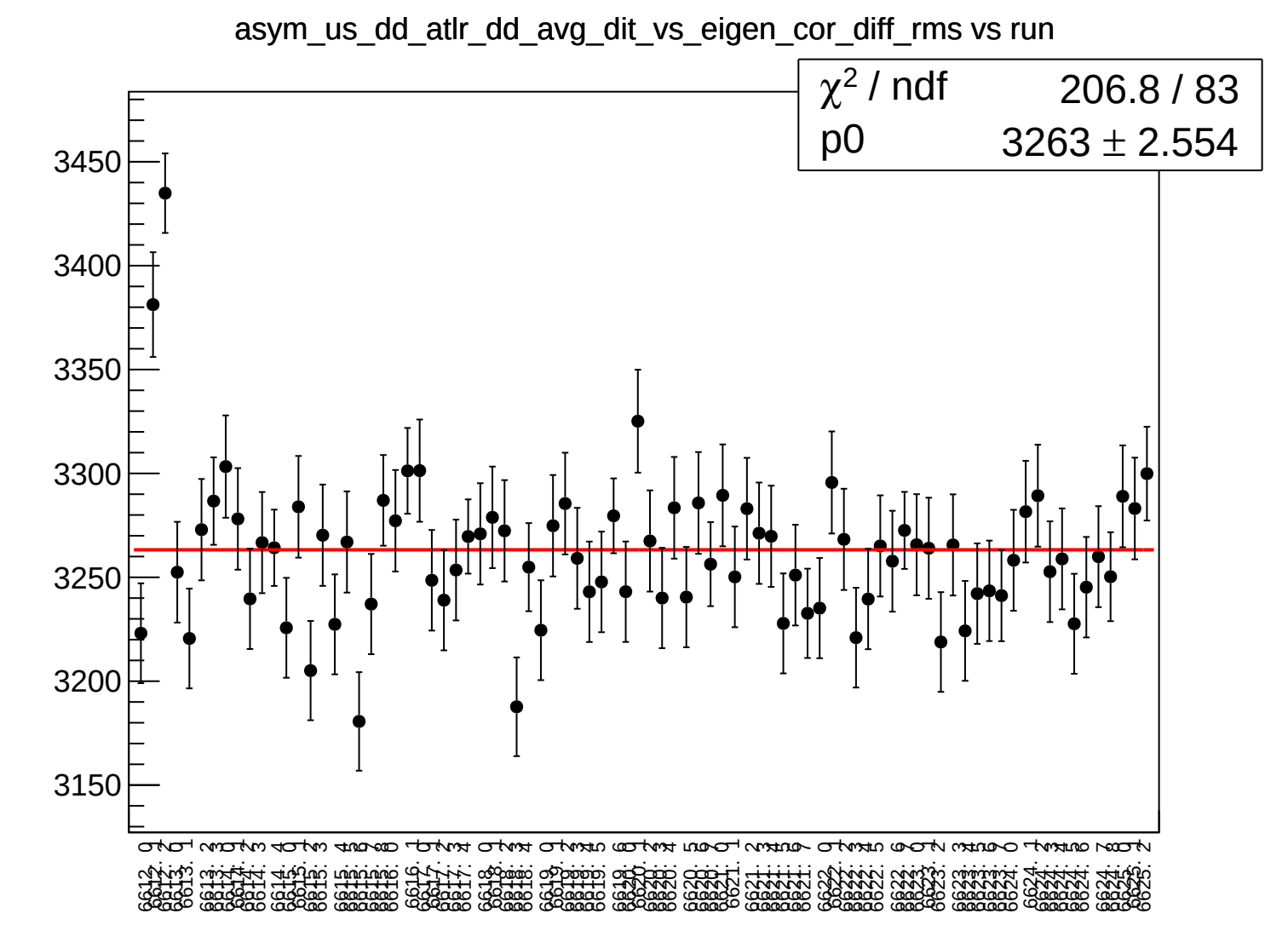

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.274e+05 / 83
p0 6.104e−11 ± 7.269e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

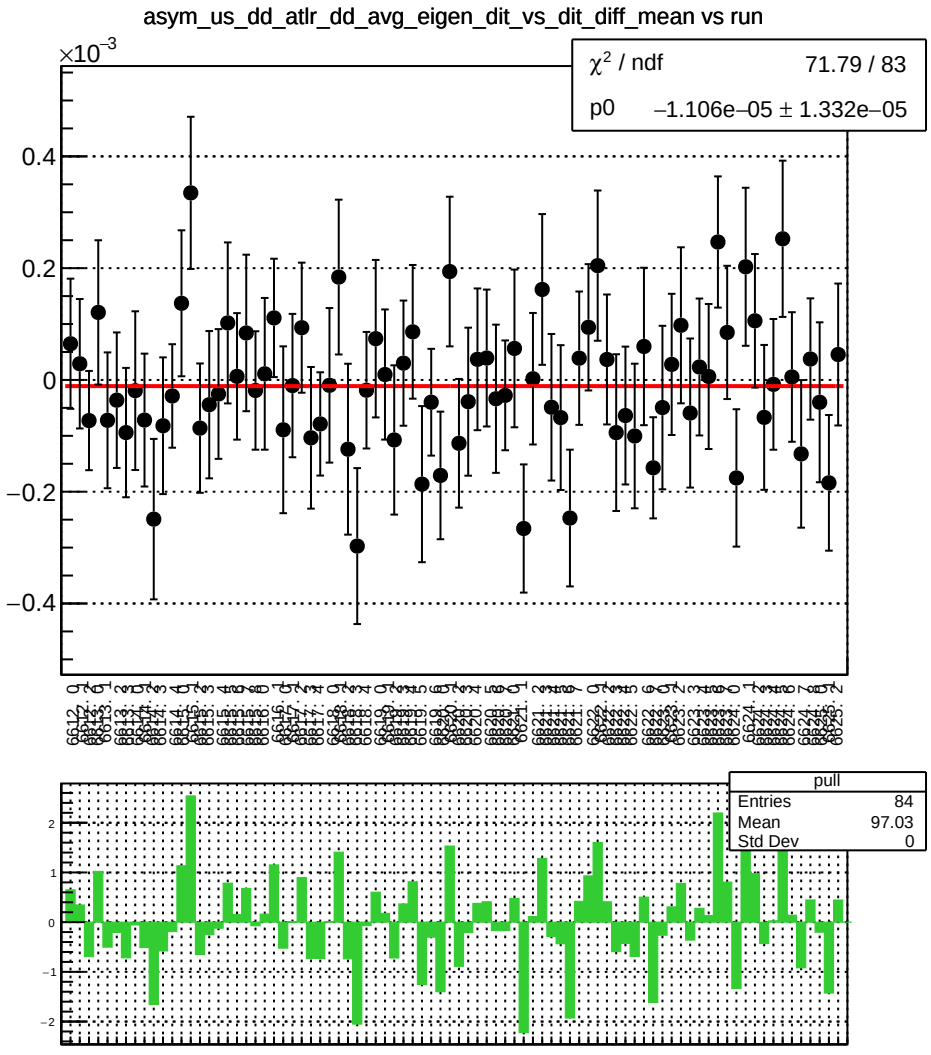

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.57 / 83
p0 2.041 ± 3.612
100
50
0
−50
−100
−150
pull
Entries 84
Mean 899.7
Std Dev 0
pull1D
Entries 84
Mean −0.003592
Std Dev 1.021

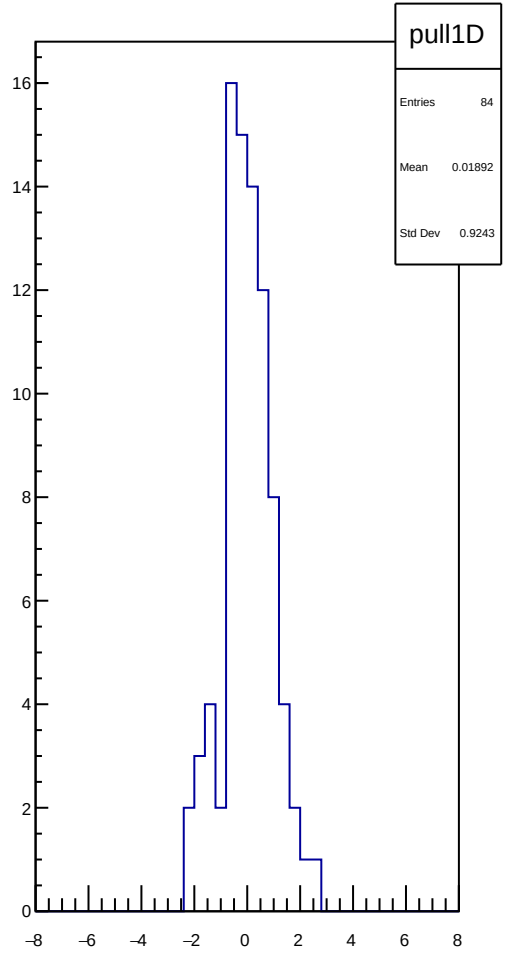

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 206.8 / 83
p0 3263 ± 2.554
3450
3400
3350
3300
3250
3200
3150

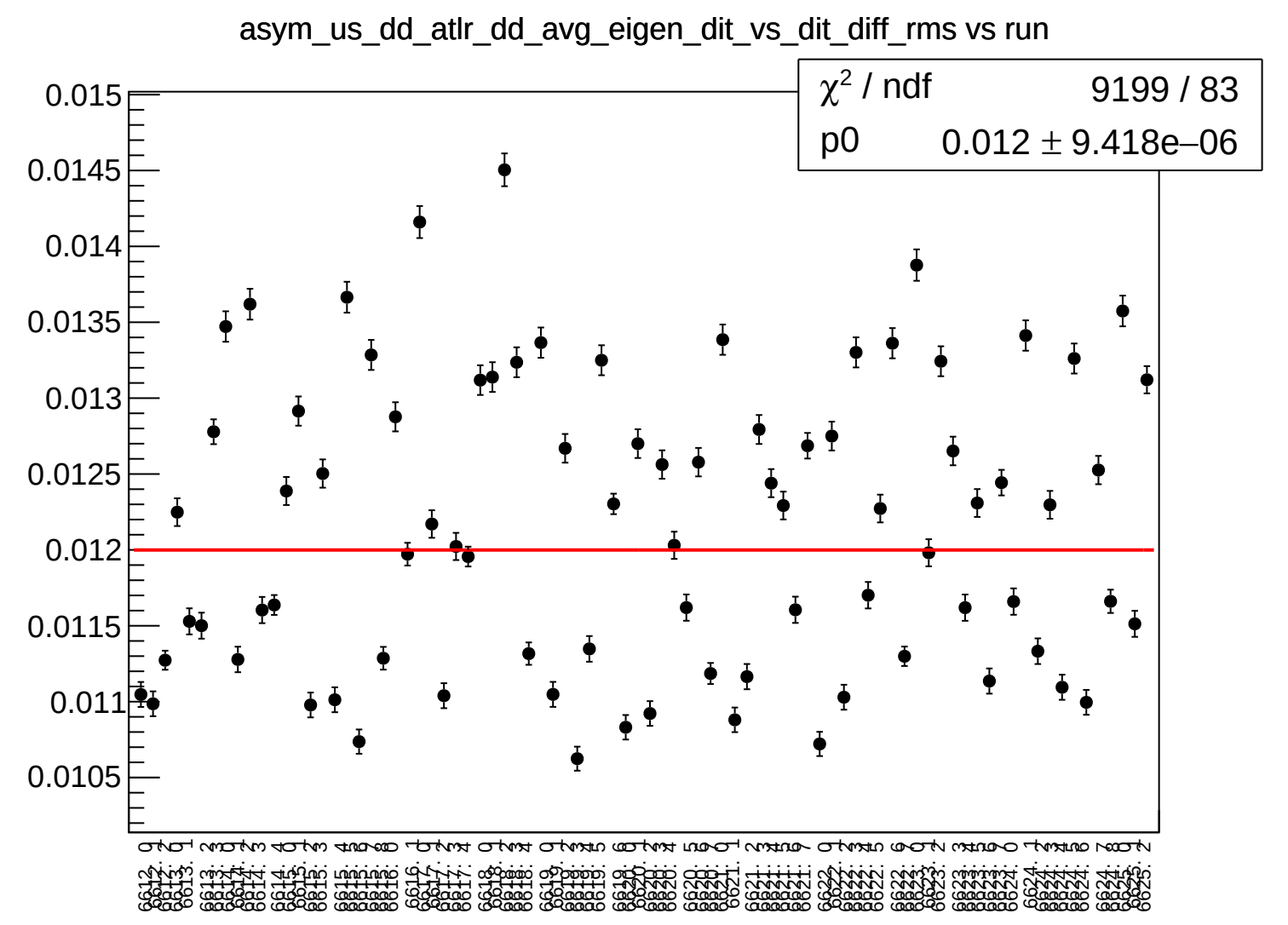

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.57 / 83
p0 2.041 ± 3.612
pull
Entries 84
Mean 899.7
Std Dev 0

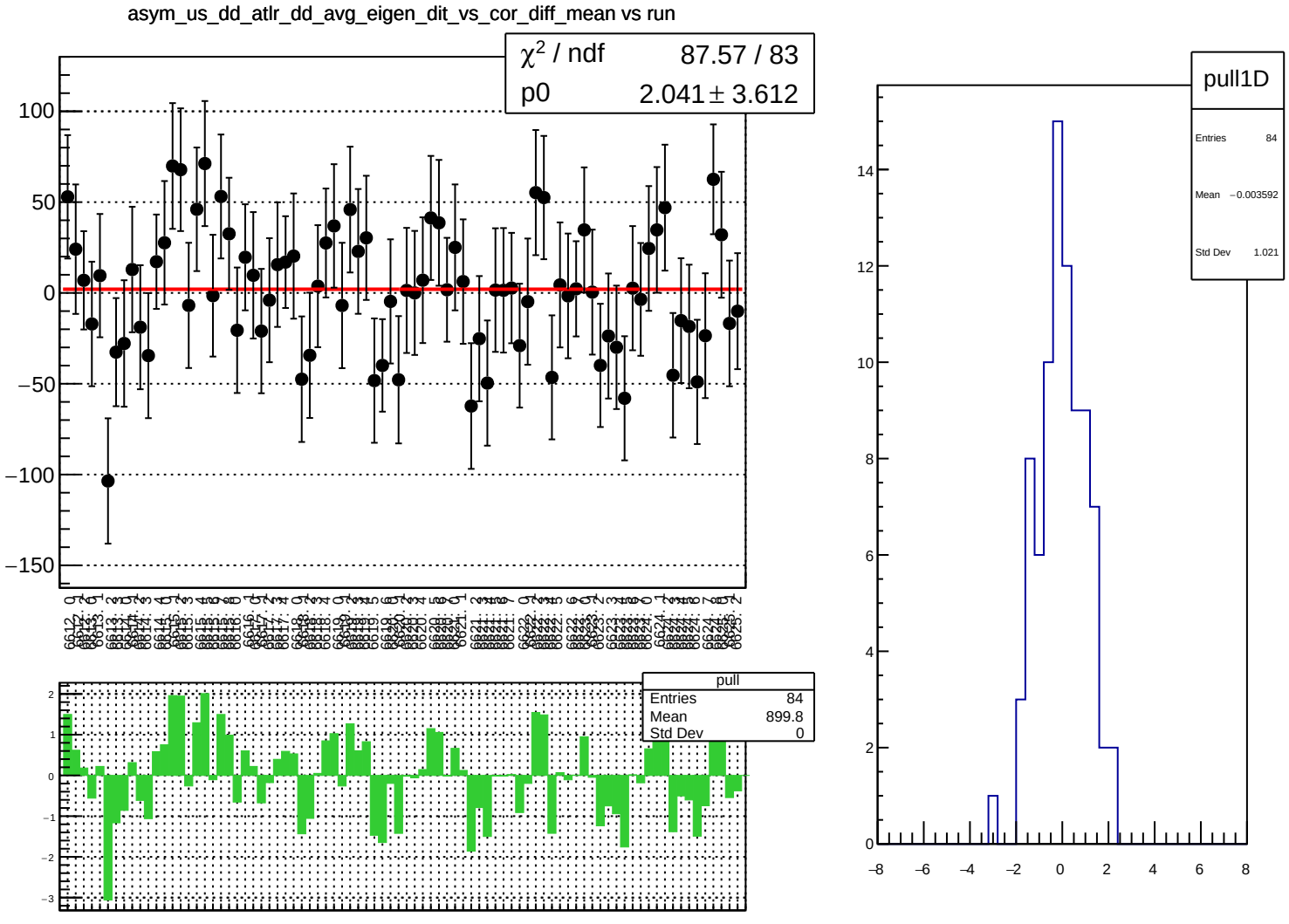

pull1D
Entries 84
Mean −0.003592
Std Dev 1.021

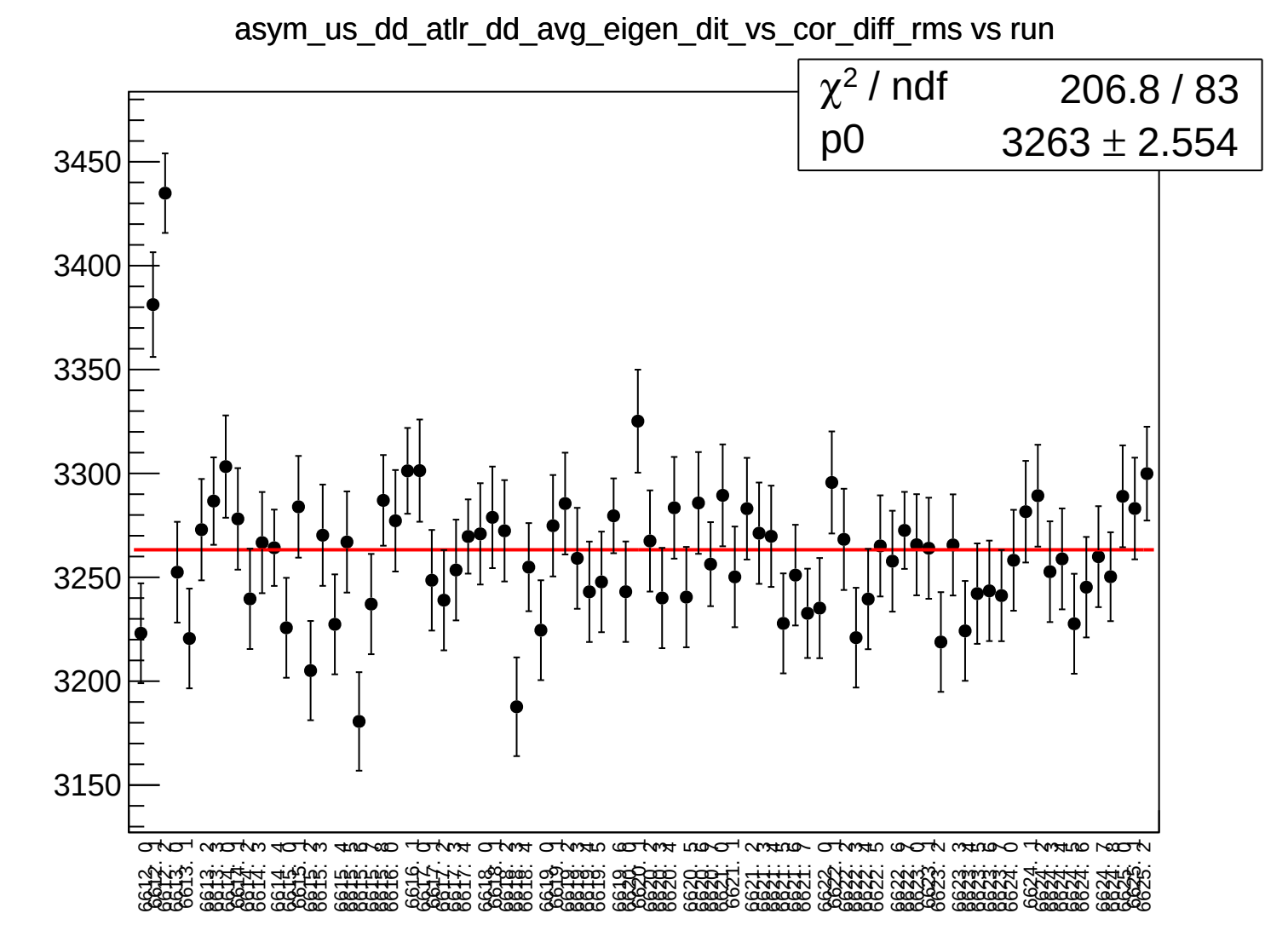

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 206.8 / 83
p0 3263 ± 2.554
3450
3400
3350
3300
3250
3200
3150

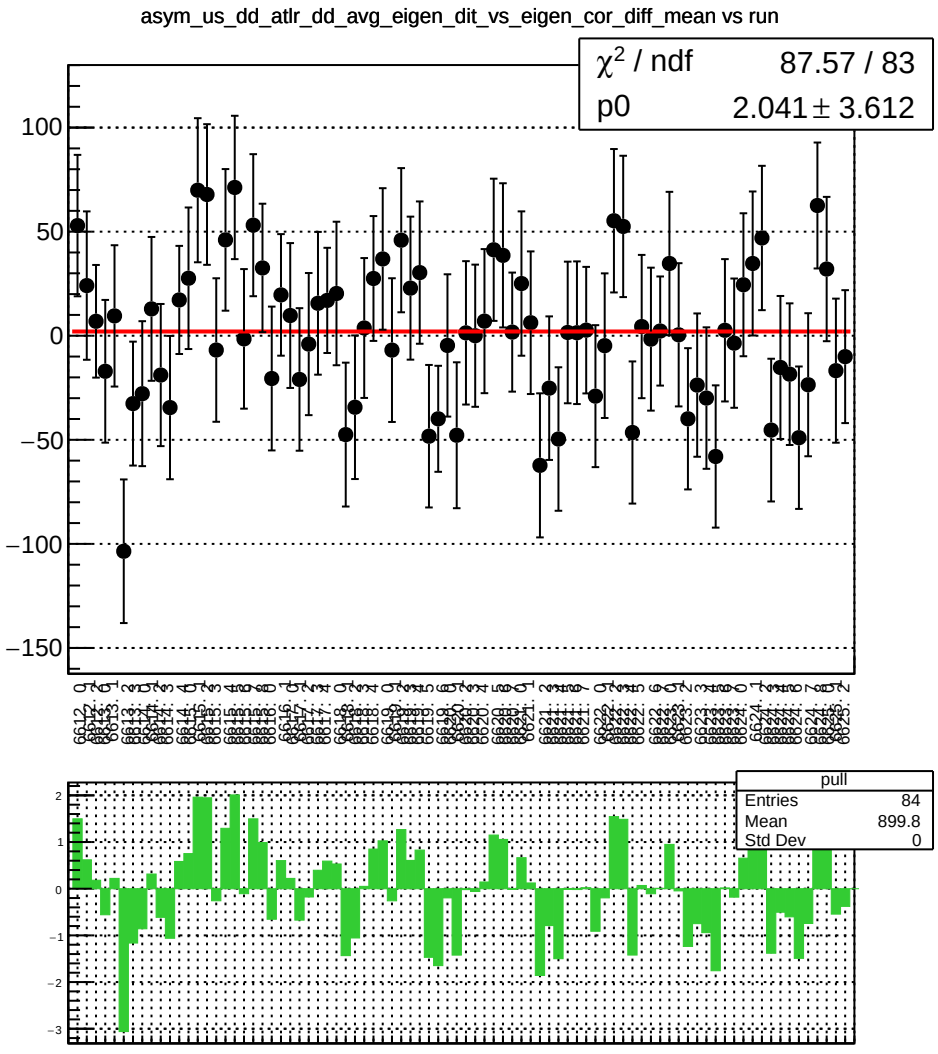

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.79 / 83
p0 −1.106e−05 ± 1.332e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 84
Mean 97.03
Std Dev 0
2
1
0
−1
−2

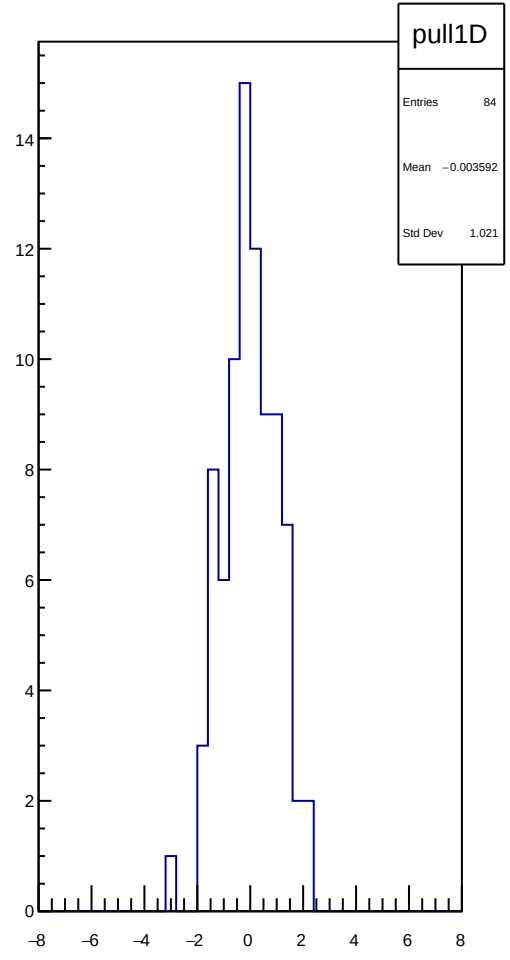

pull1D
Entries 84
Mean 0.01892
Std Dev 0.9243
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

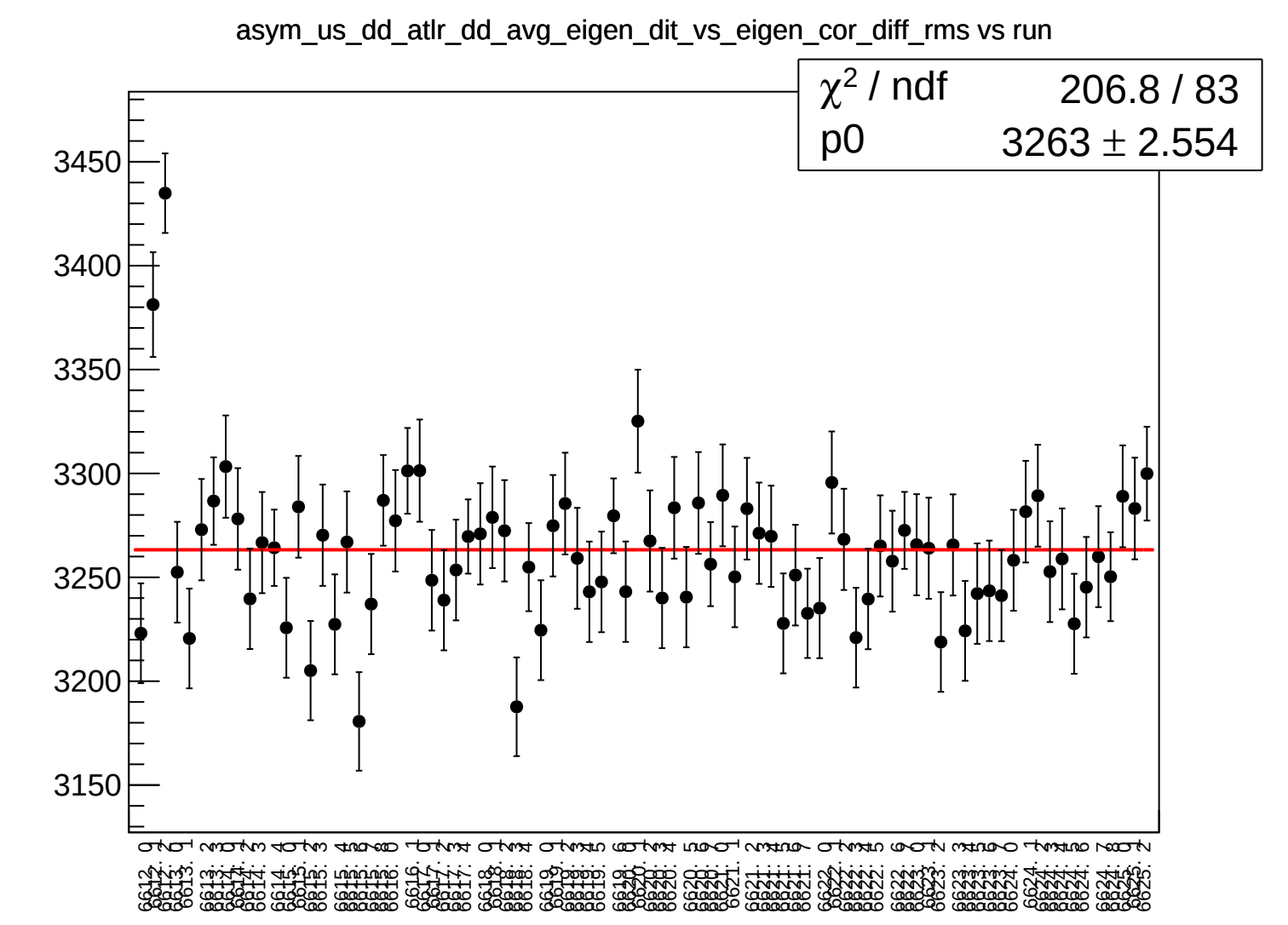

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9199 / 83
p0 0.012 ± 9.418e−06
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105

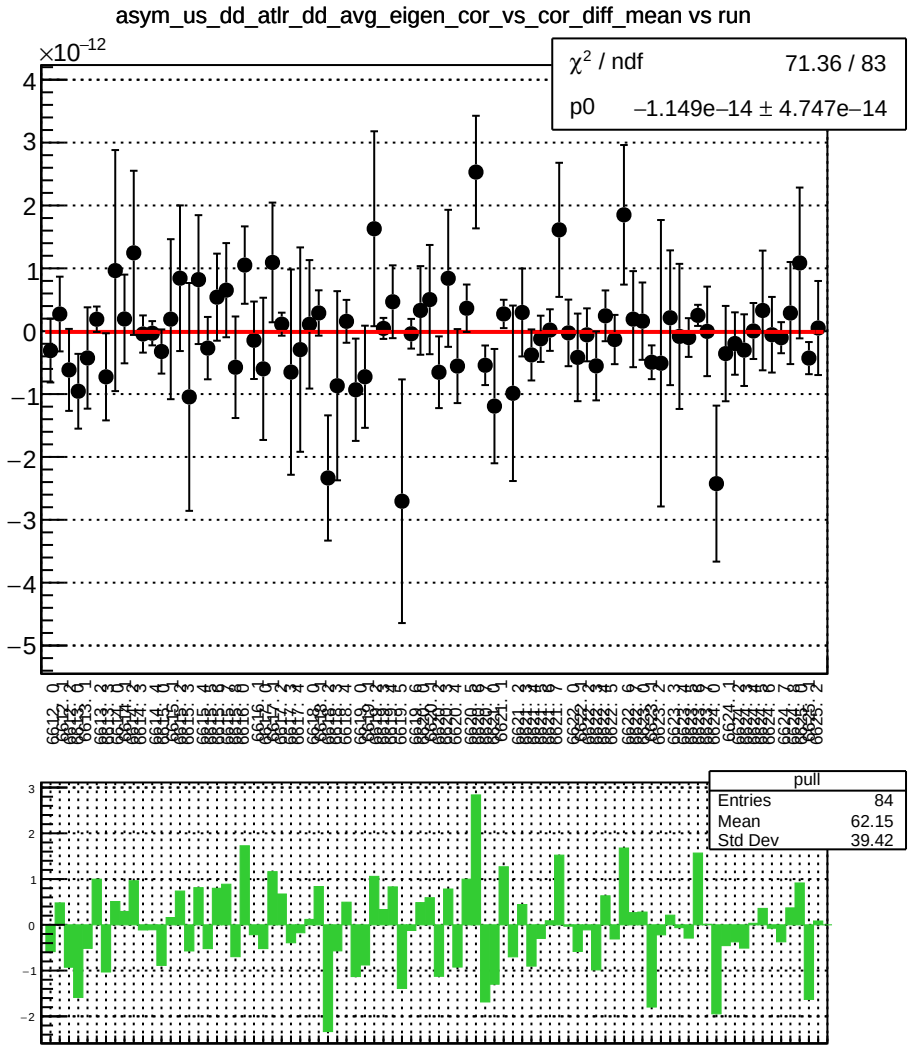

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.57 / 83
p0 2.041 ± 3.612
pull
Entries 84
Mean 899.8
Std Dev 0
pull1D
Entries 84
Mean −0.003592
Std Dev 1.021

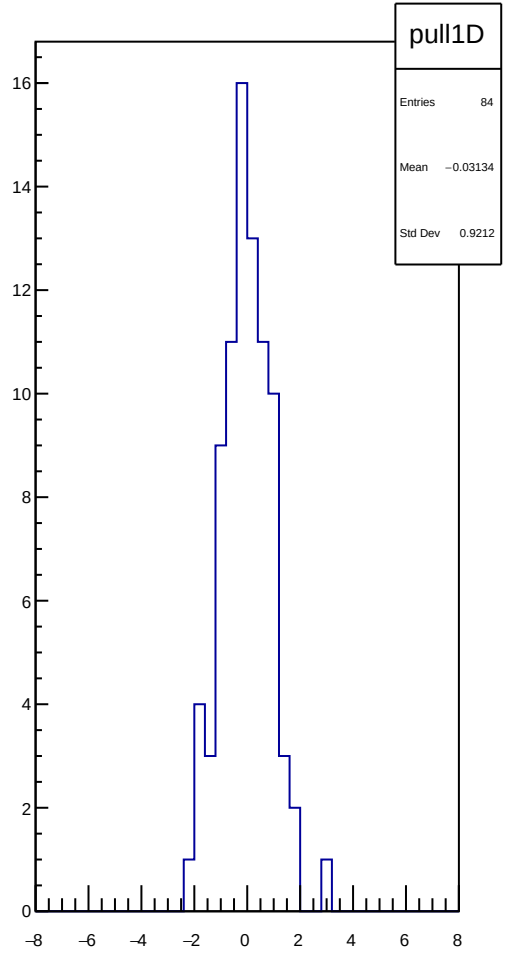

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 206.8 / 83
p0 3263 ± 2.554
3450
3400
3350
3300
3250
3200
3150

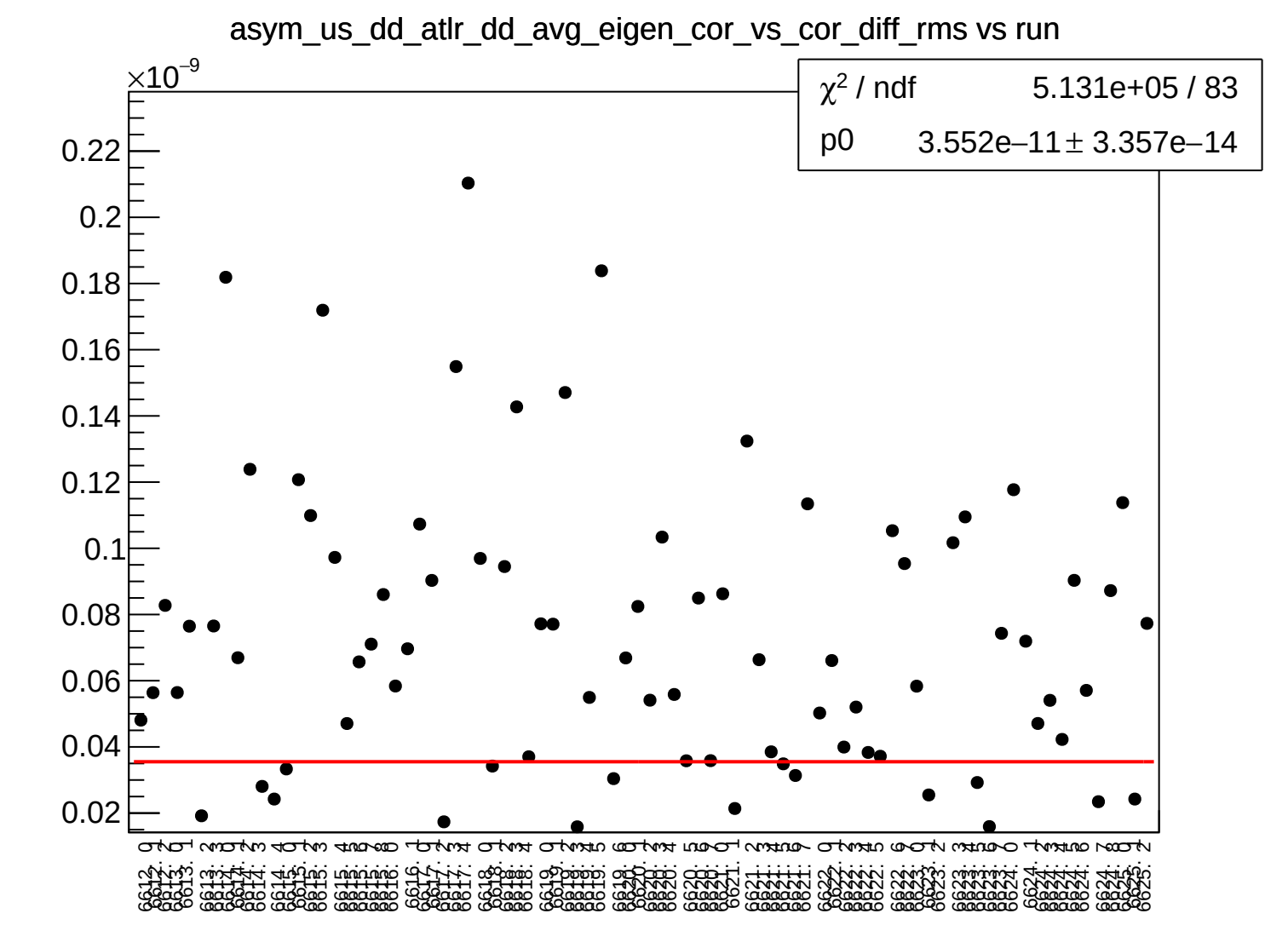

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.57 / 83
p0 2.041 ± 3.612
pull
Entries 84
Mean 899.8
Std Dev 0

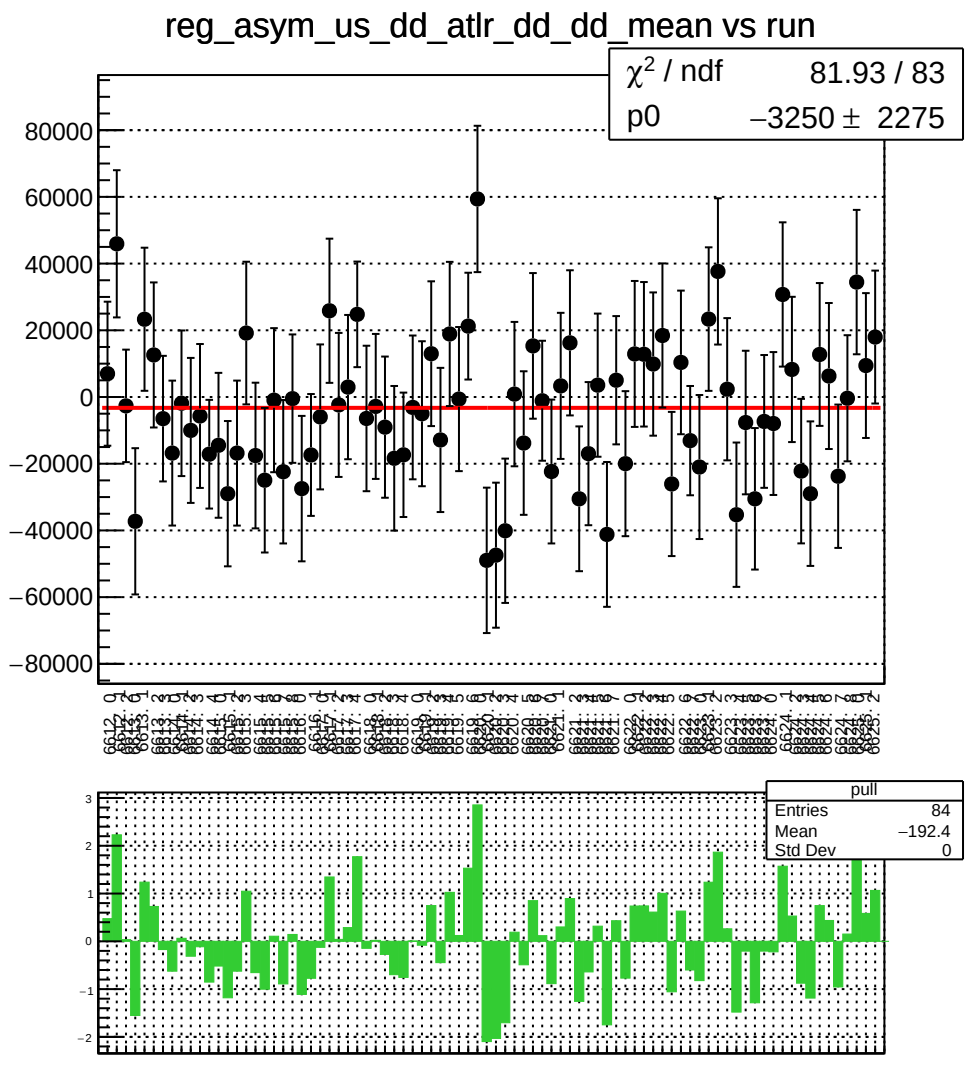

pull1D
Entries 84
Mean −0.003592
Std Dev 1.021

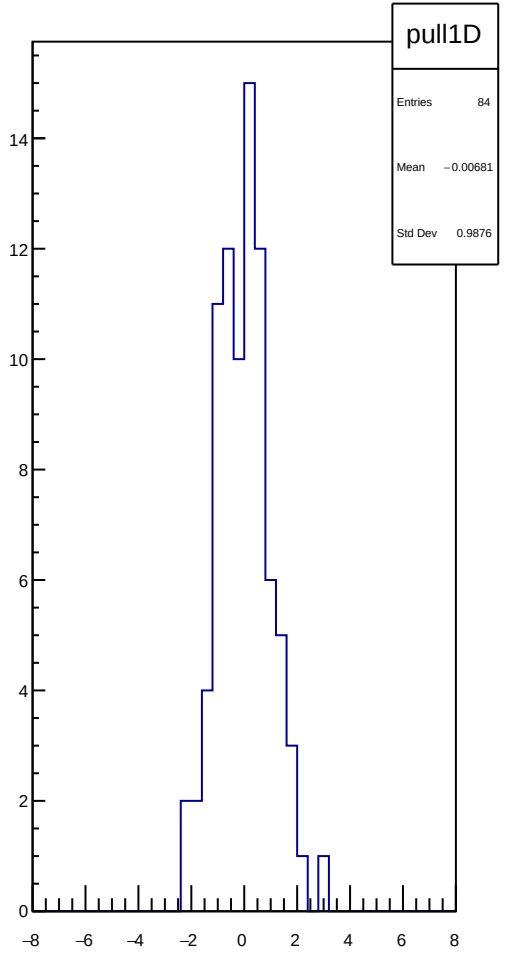

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 206.8 / 83
p0 3263 ± 2.554
3450
3400
3350
3300
3250
3200
3150

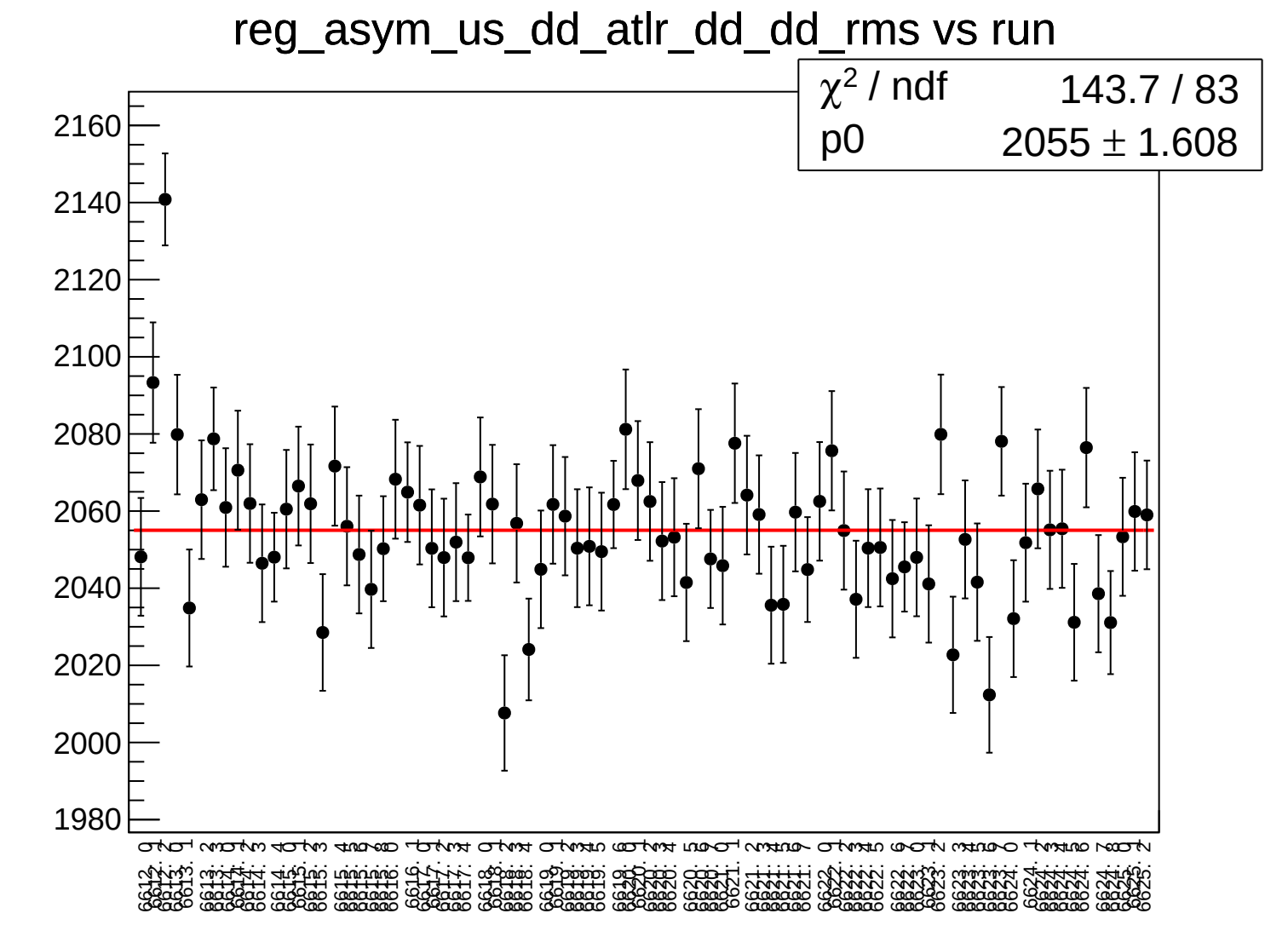

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.36 / 83
p0 −1.149e−14 ± 4.747e−14
pull
Entries 84
Mean 62.15
Std Dev 39.42

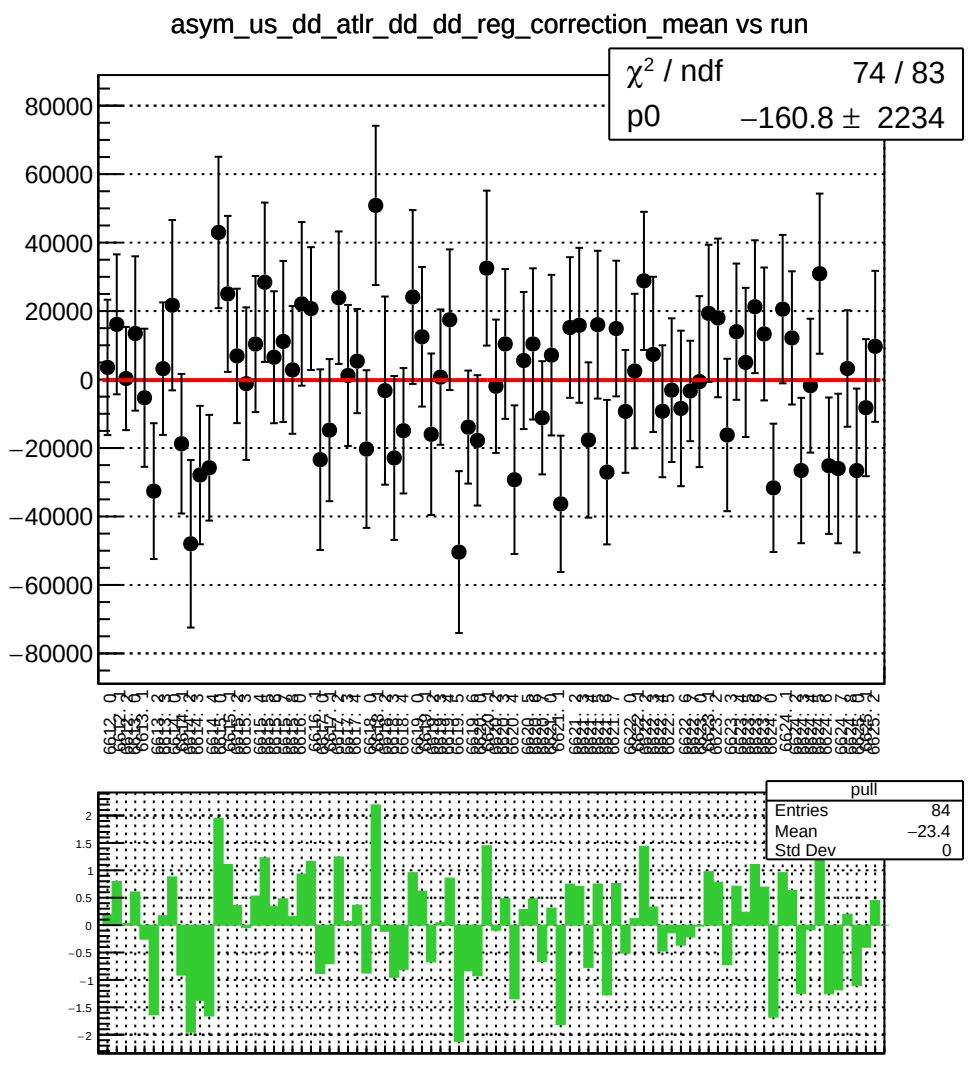

pull1D
Entries 84
Mean −0.03134
Std Dev 0.9212

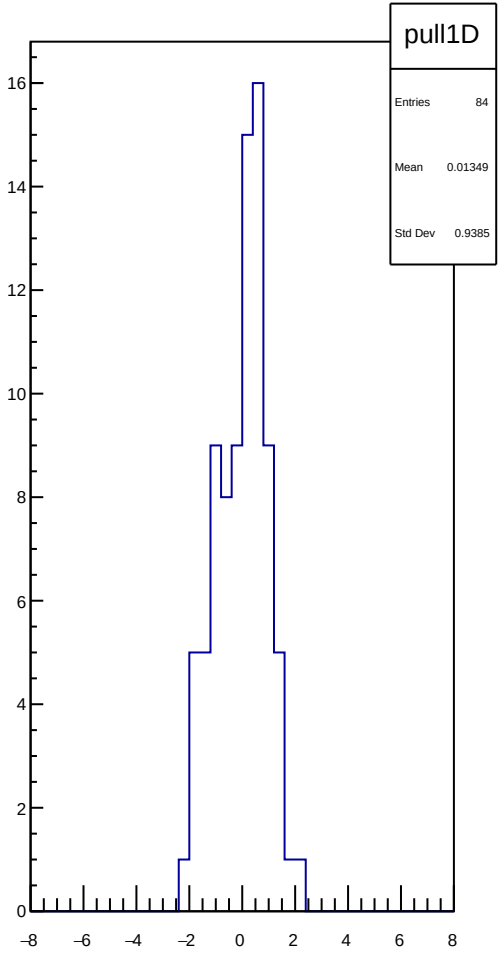

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.131e+05 / 83
p0 3.552e−11 ± 3.357e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

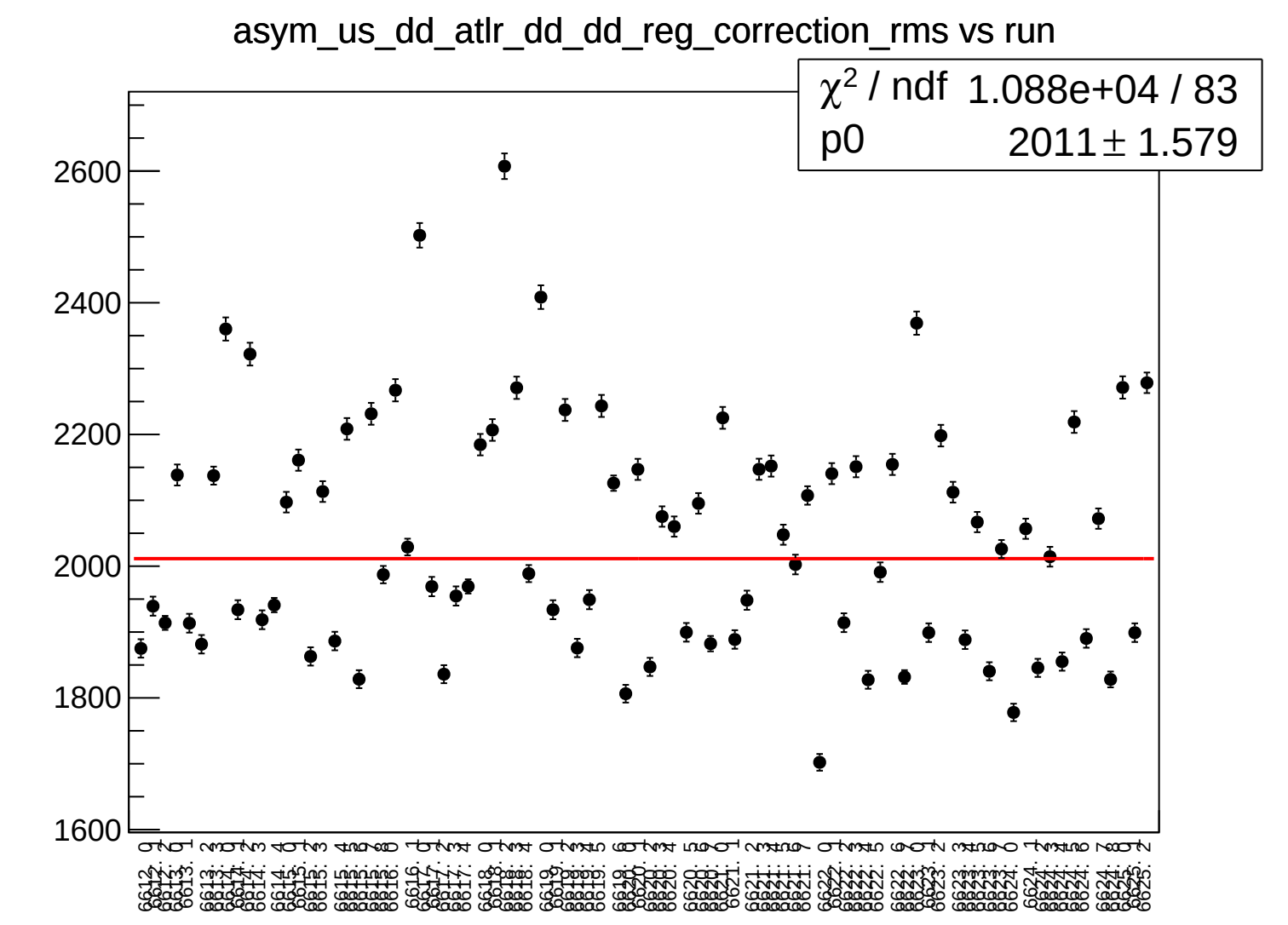

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 81.93 / 83
p0 −3250 ± 2275
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −192.4
Std Dev 0
3
2
1
0
−1
−2

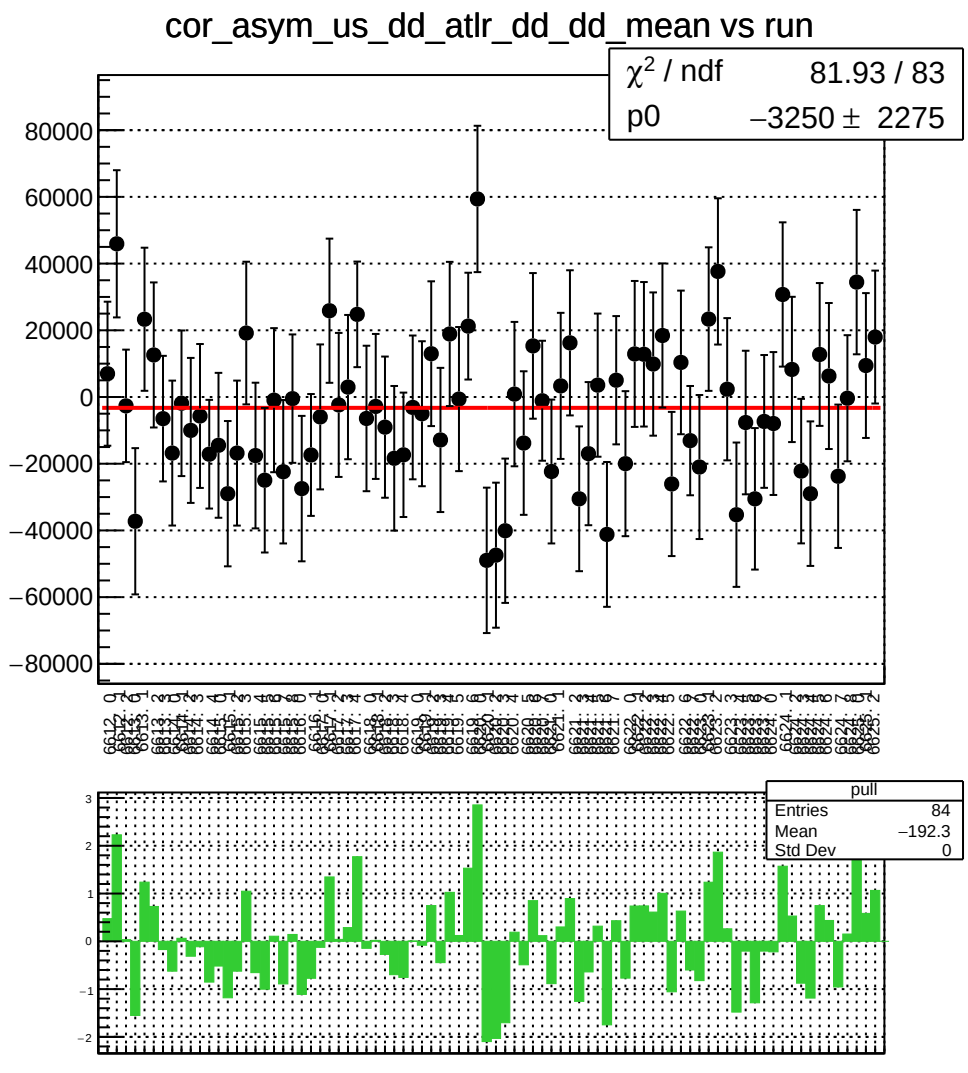

pull1D
Entries 84
Mean −0.00681
Std Dev 0.9876
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

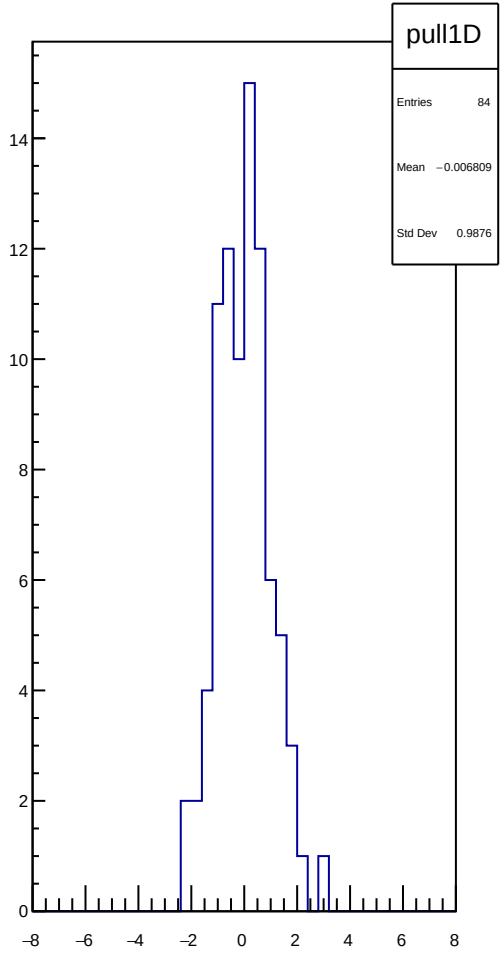

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 143.7 / 83
p0 2055 ± 1.608
2160
2140
2120
2100
2080
2060
2040
2020
2000
1980

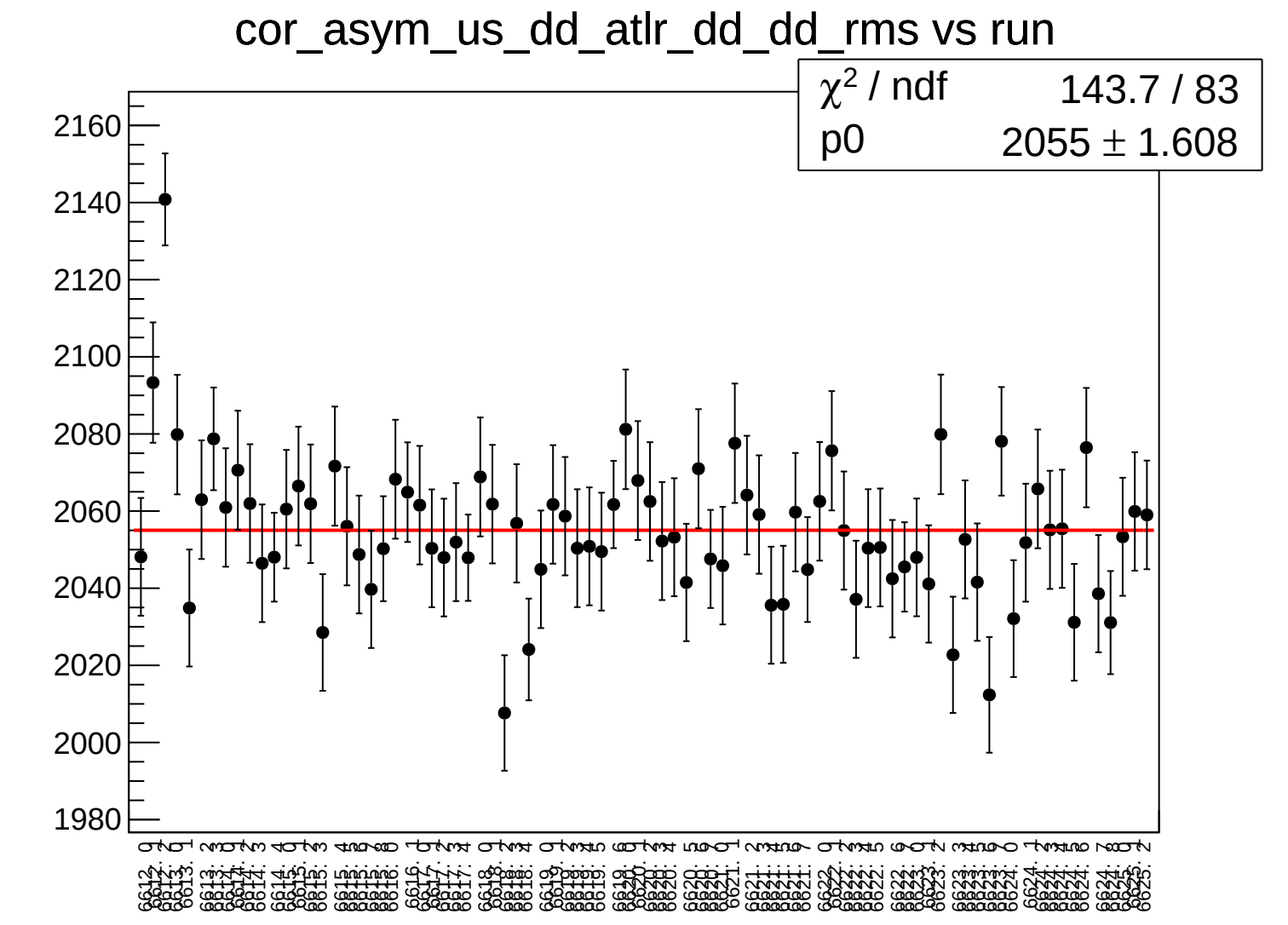

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 74 / 83
p0 −160.8 ± 2234
pull
Entries 84
Mean −23.4
Std Dev 0

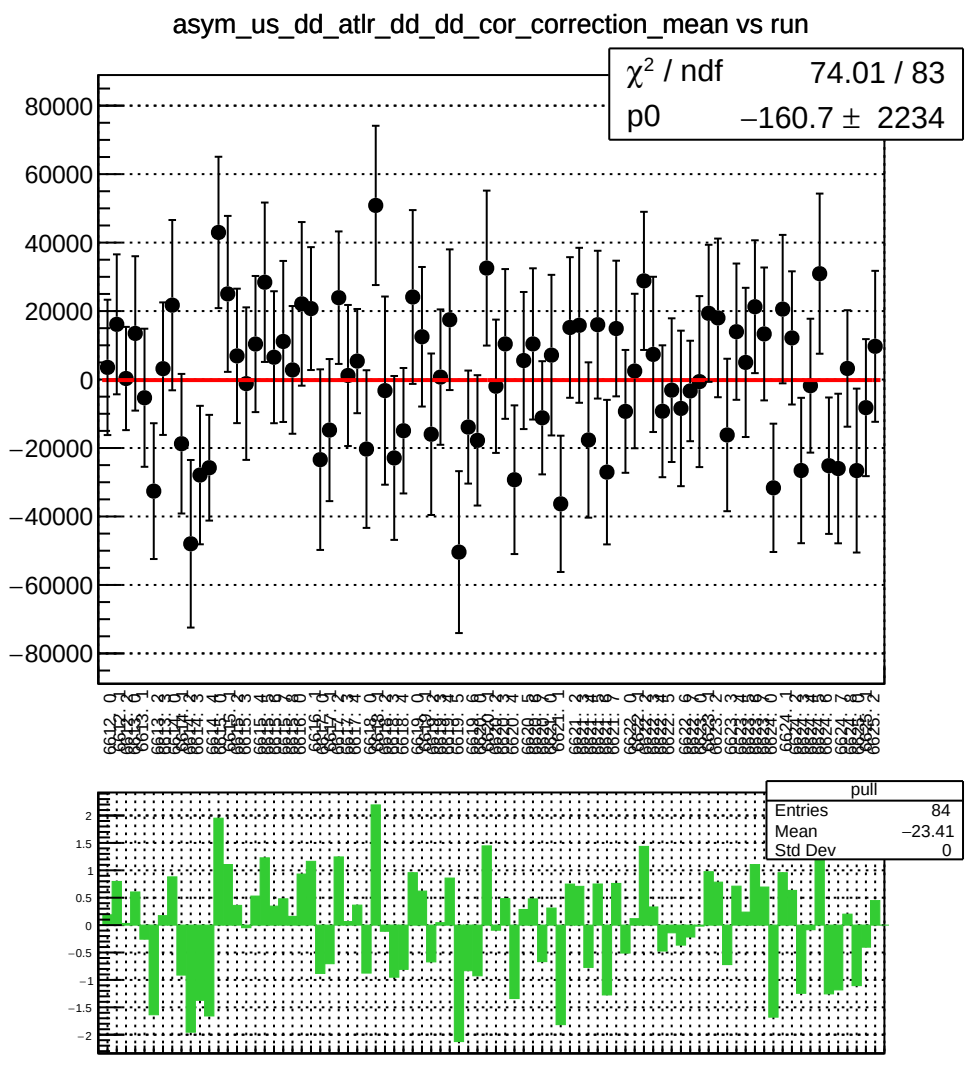

pull1D
Entries 84
Mean 0.01349
Std Dev 0.9385

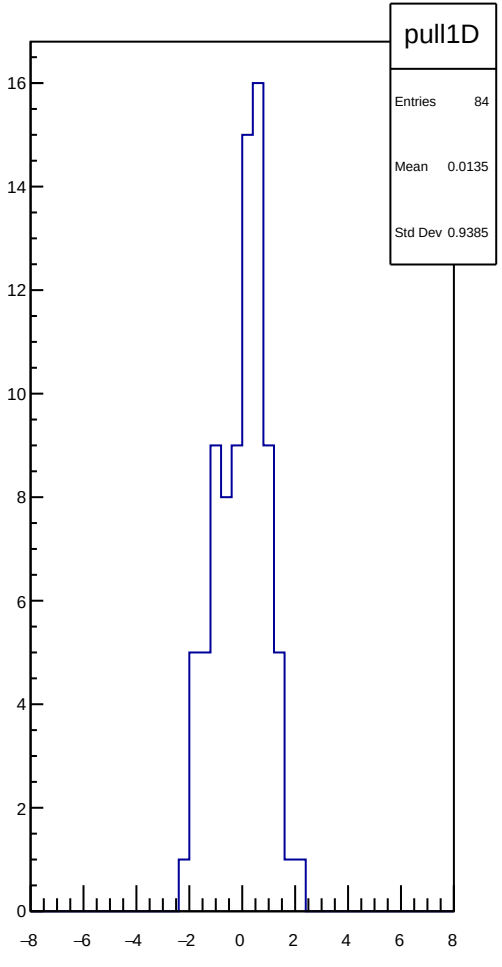

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.088e+04 / 83
p0 2011 ± 1.579
2600
2400
2200
2000
1800
1600

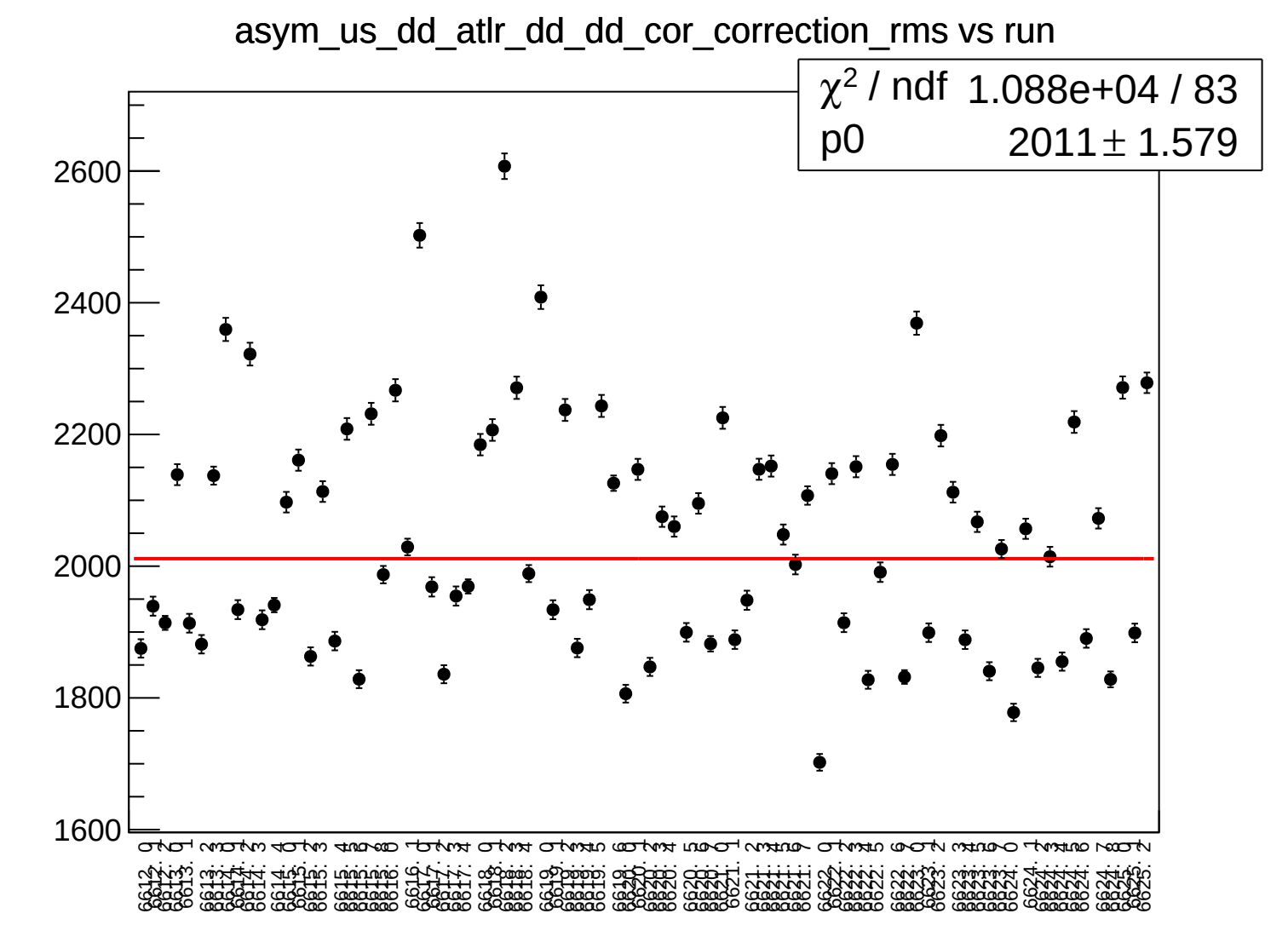

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 81.93 / 83
p0 −3250 ± 2275
pull
Entries 84
Mean −192.3
Std Dev 0

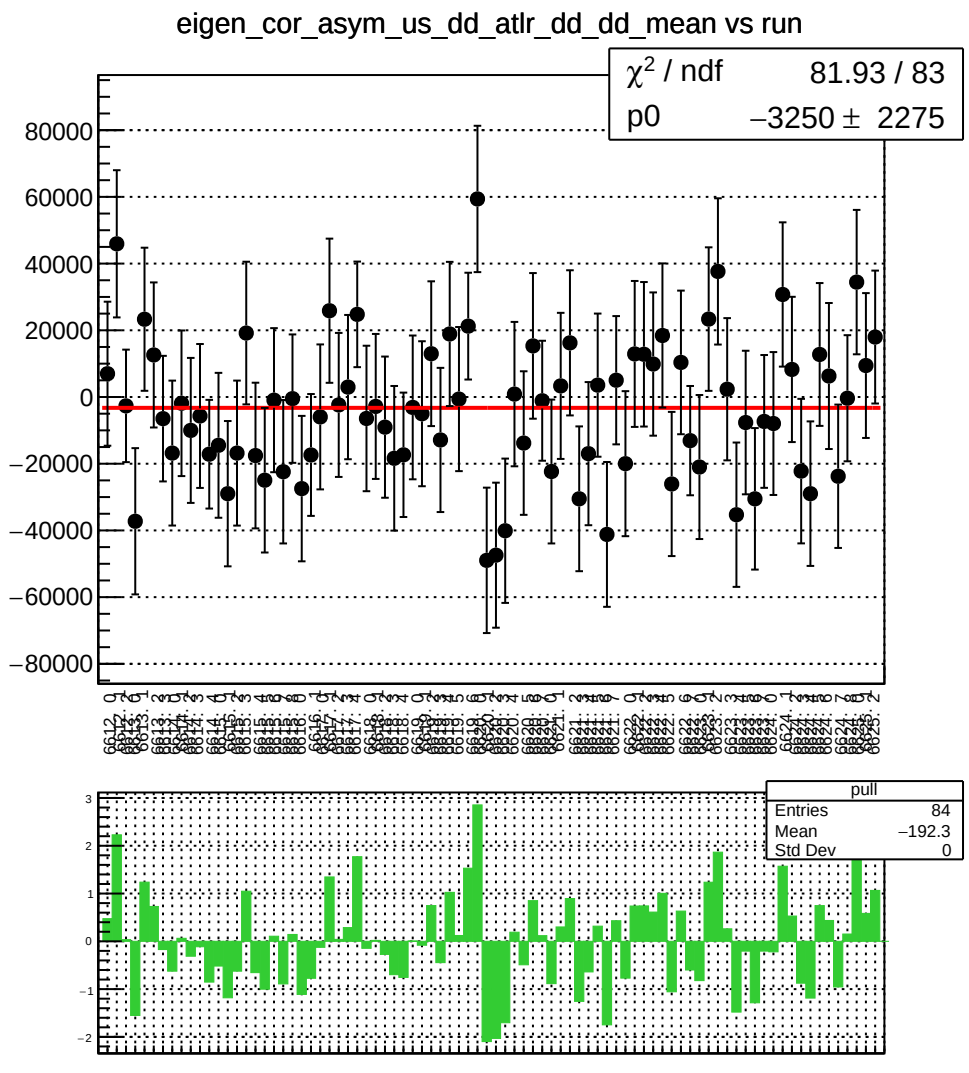

pull1D
Entries 84
Mean −0.006809
Std Dev 0.9876

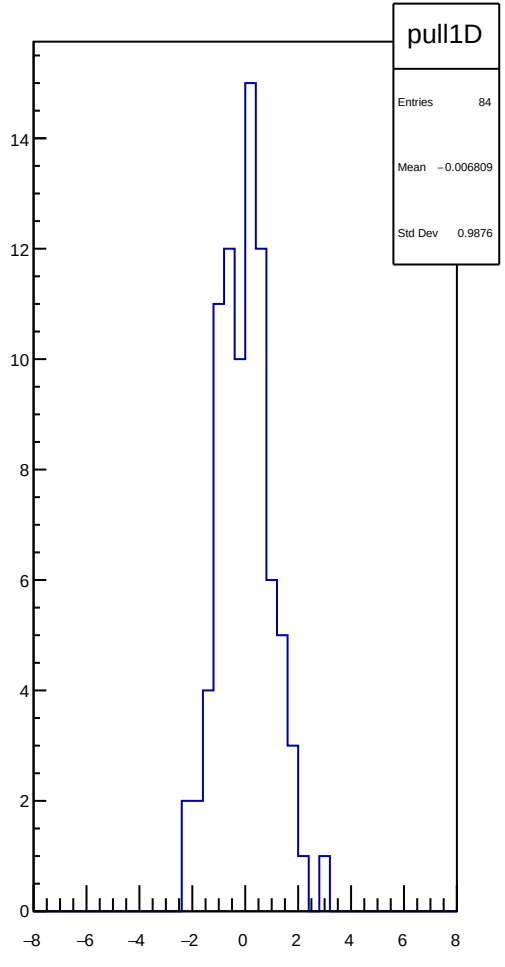

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 143.7 / 83
p0 2055 ± 1.608
2160
2140
2120
2100
2080
2060
2040
2020
2000
1980

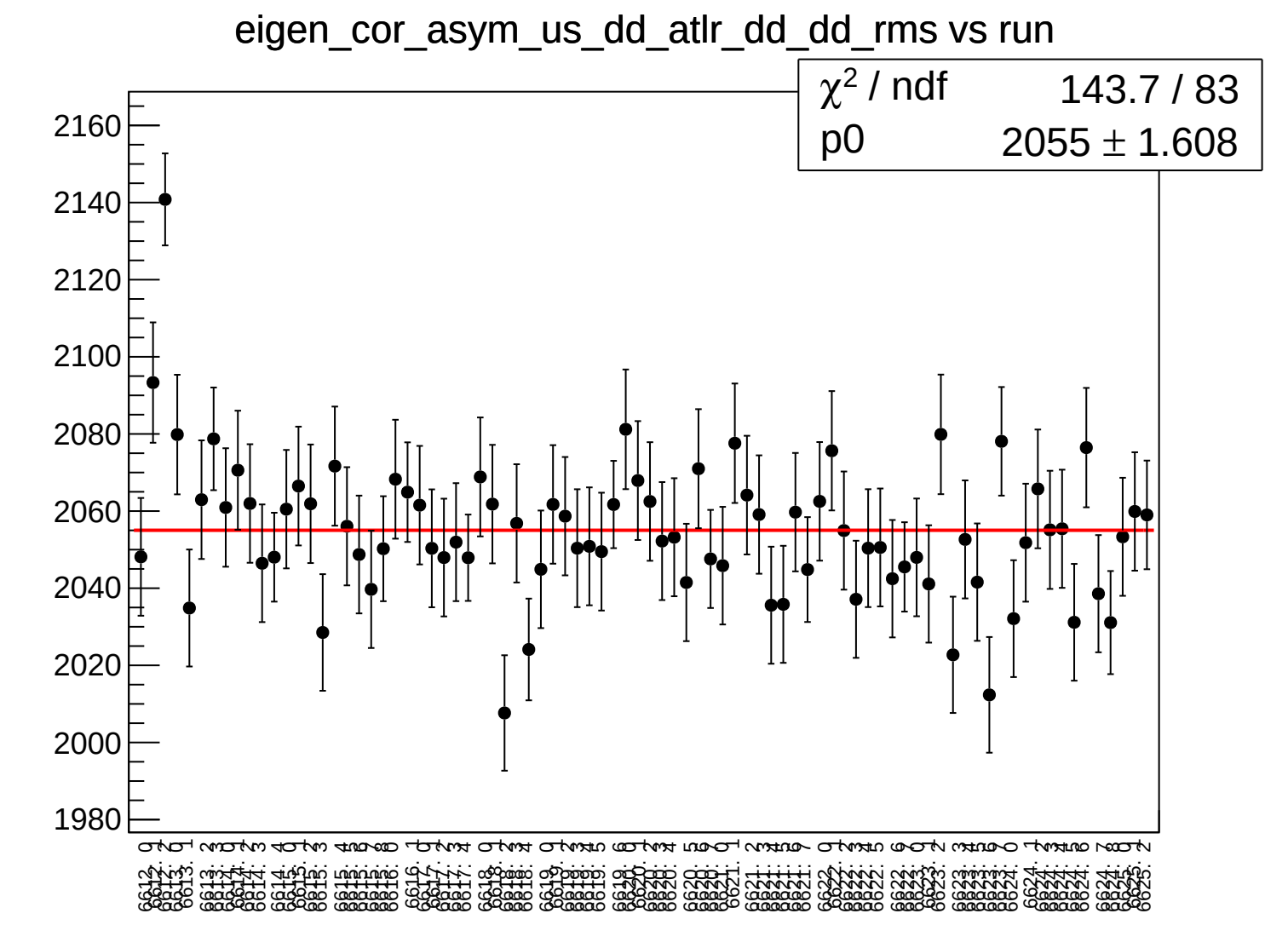

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 74.01 / 83
p0 −160.7 ± 2234
pull
Entries 84
Mean −23.41
Std Dev 0

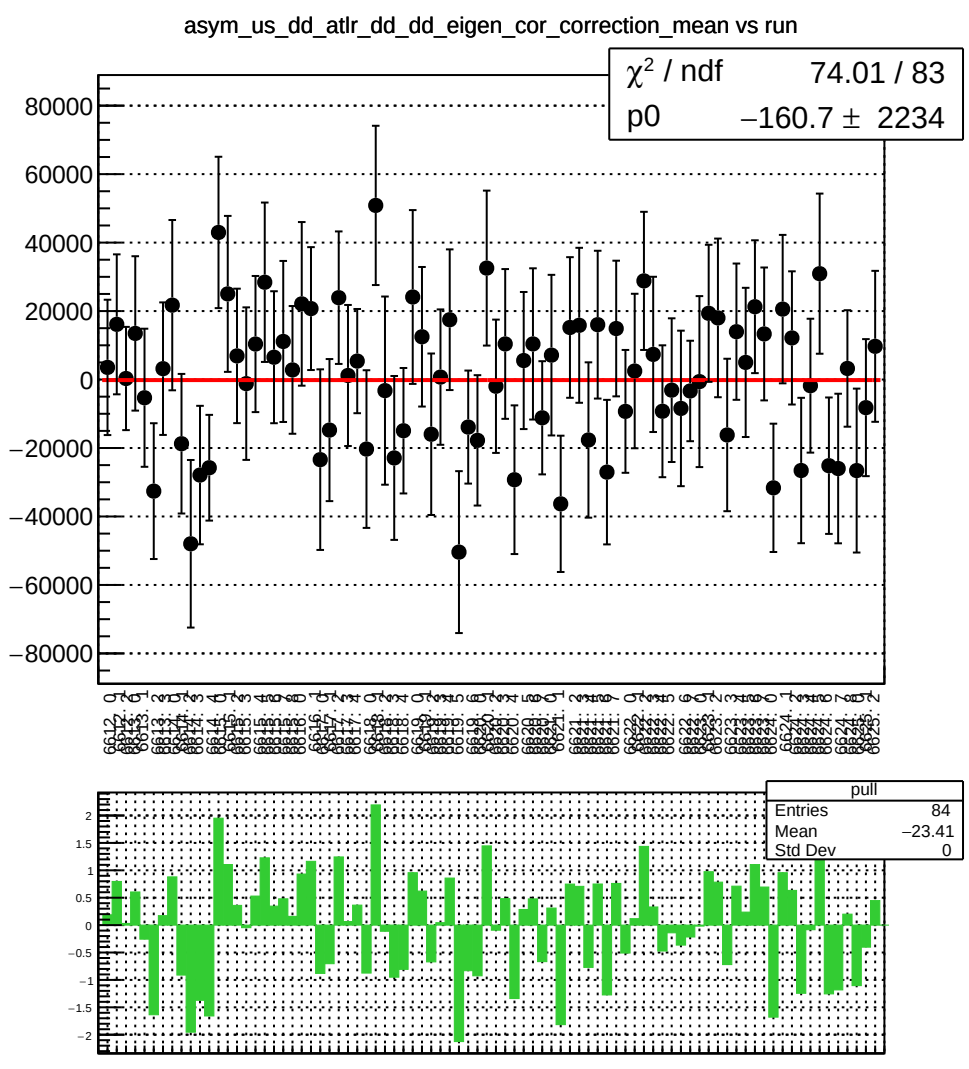

pull1D
Entries 84
Mean 0.0135
Std Dev 0.9385

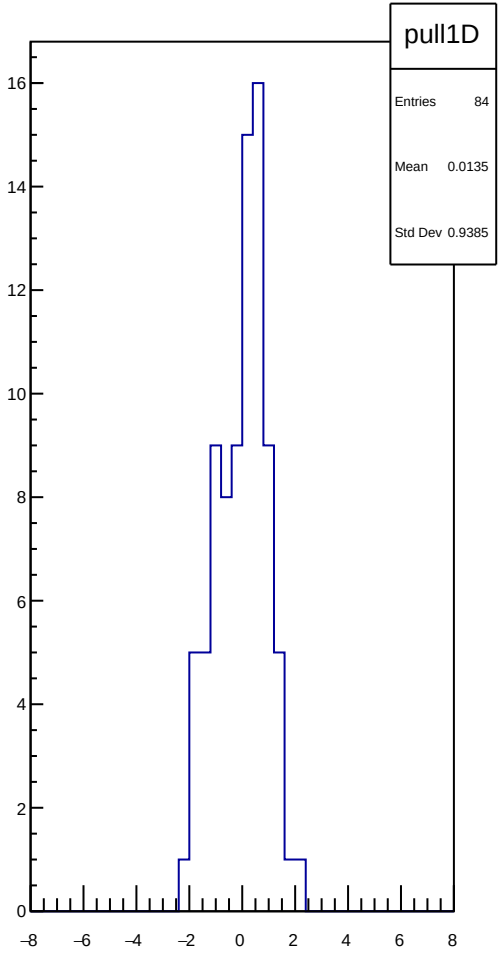

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.088e+04 / 83
p0 2011 ± 1.579
2600
2400
2200
2000
1800
1600

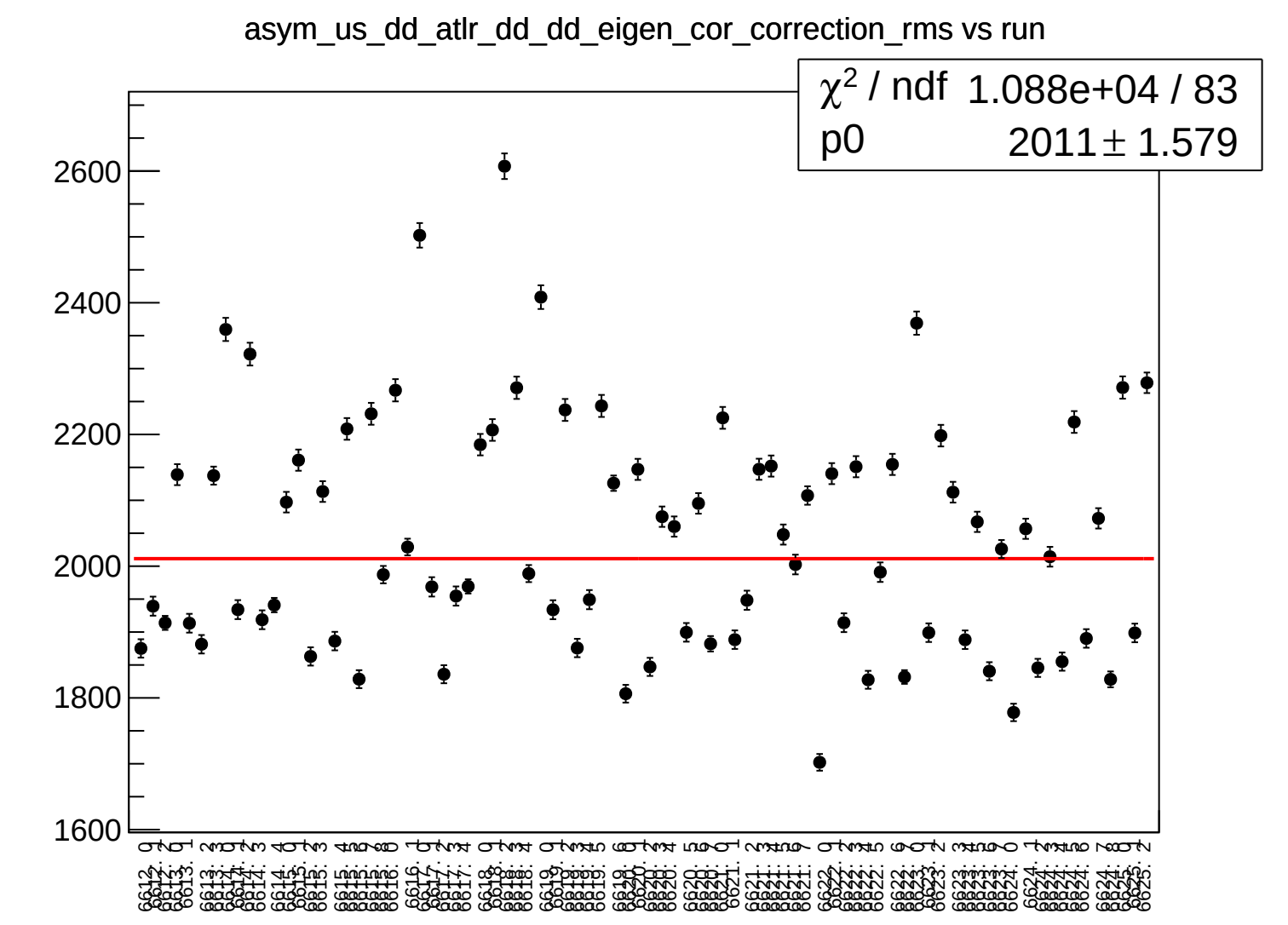

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 81.93 / 83
p0 −3250 ± 2275
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −192.3
Std Dev 0
3
2
1
0
−1
−2

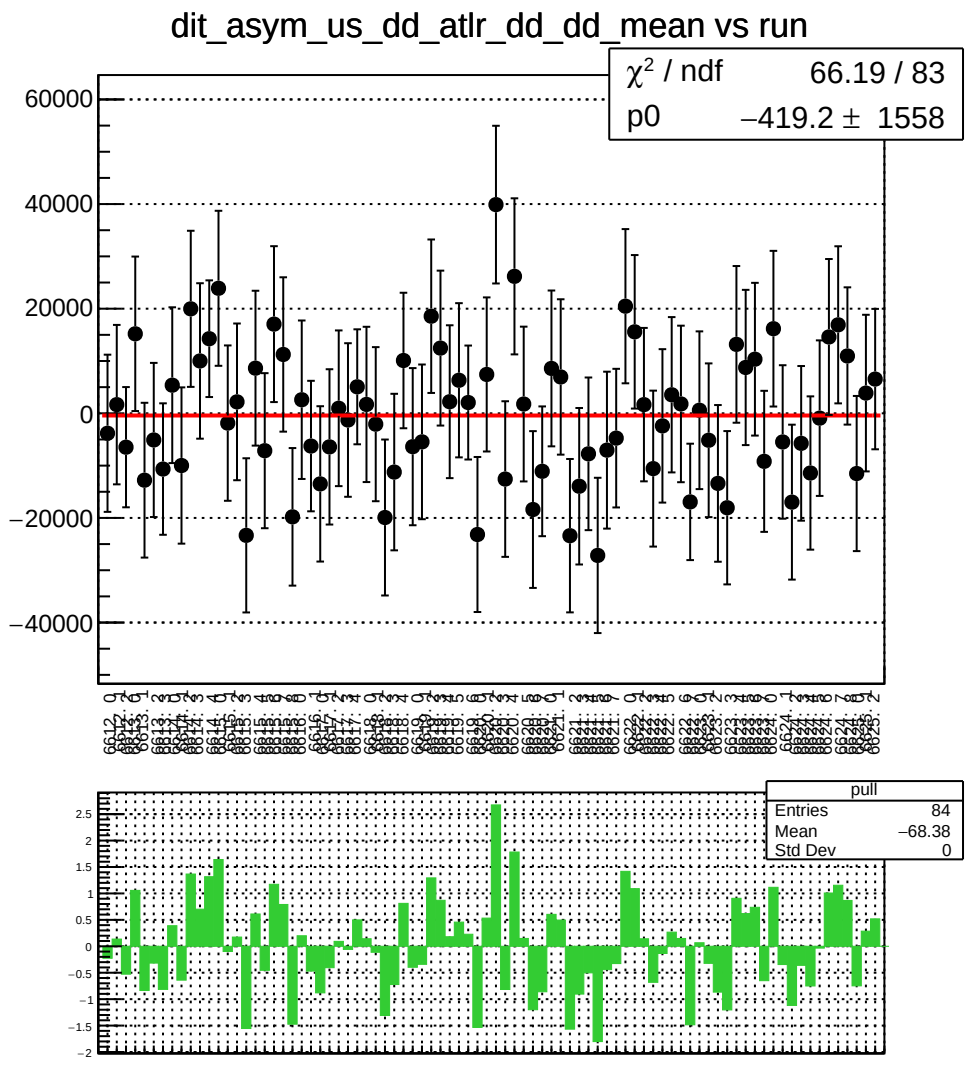

pull1D
Entries 84
Mean −0.006809
Std Dev 0.9876
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

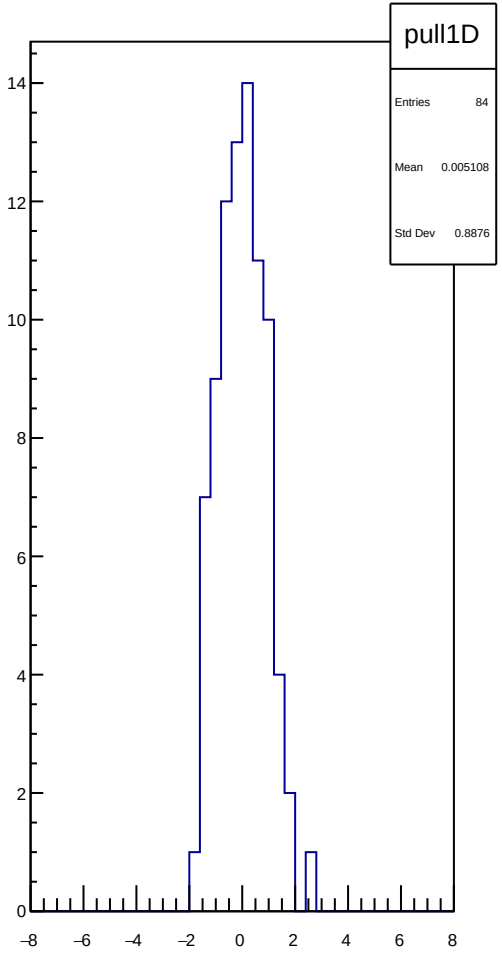

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 143.7 / 83
p0 2055 ± 1.608
2160
2140
2120
2100
2080
2060
2040
2020
2000
1980

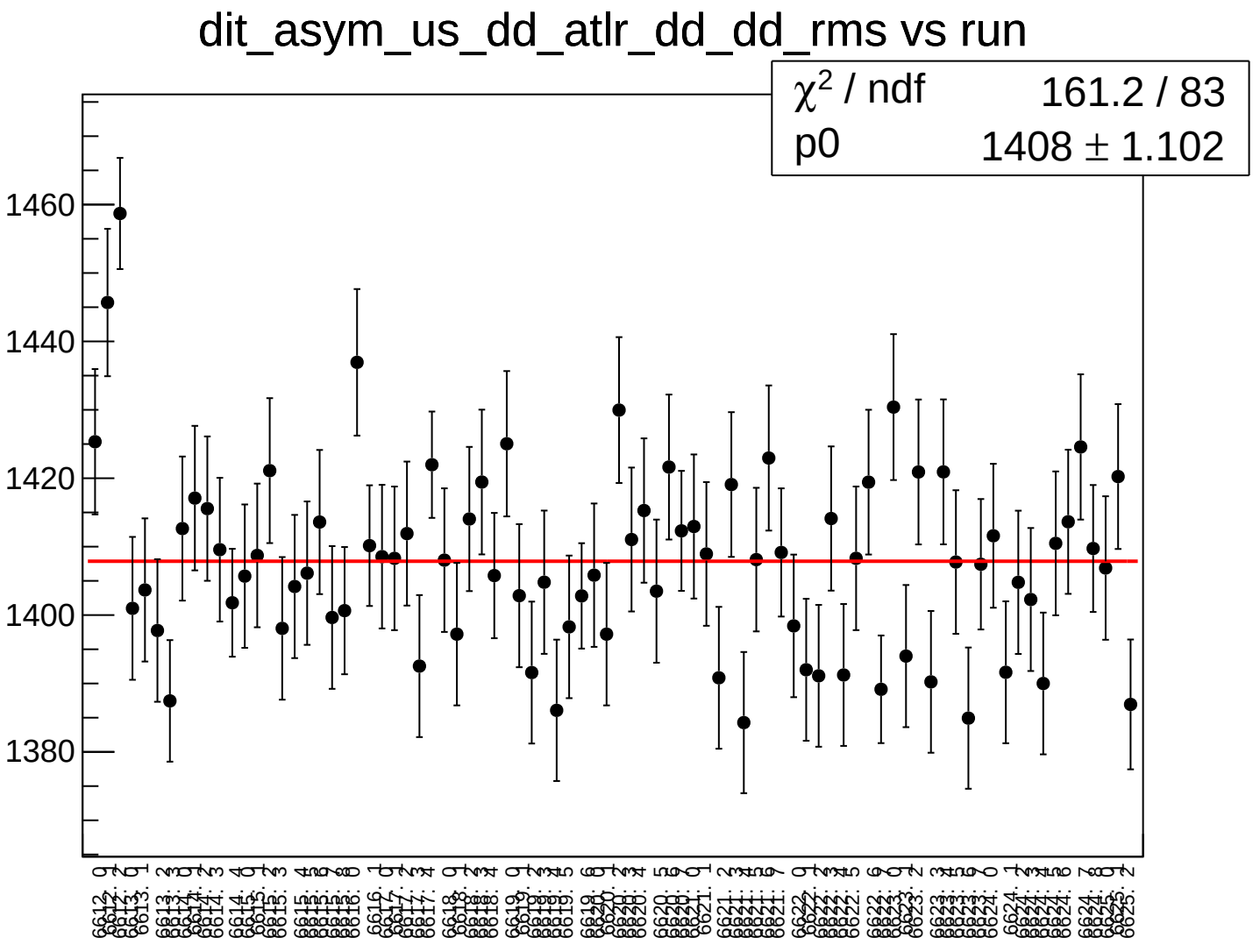

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.01 / 83
p0 −160.7 ± 2234
pull
Entries 84
Mean −23.41
Std Dev 0

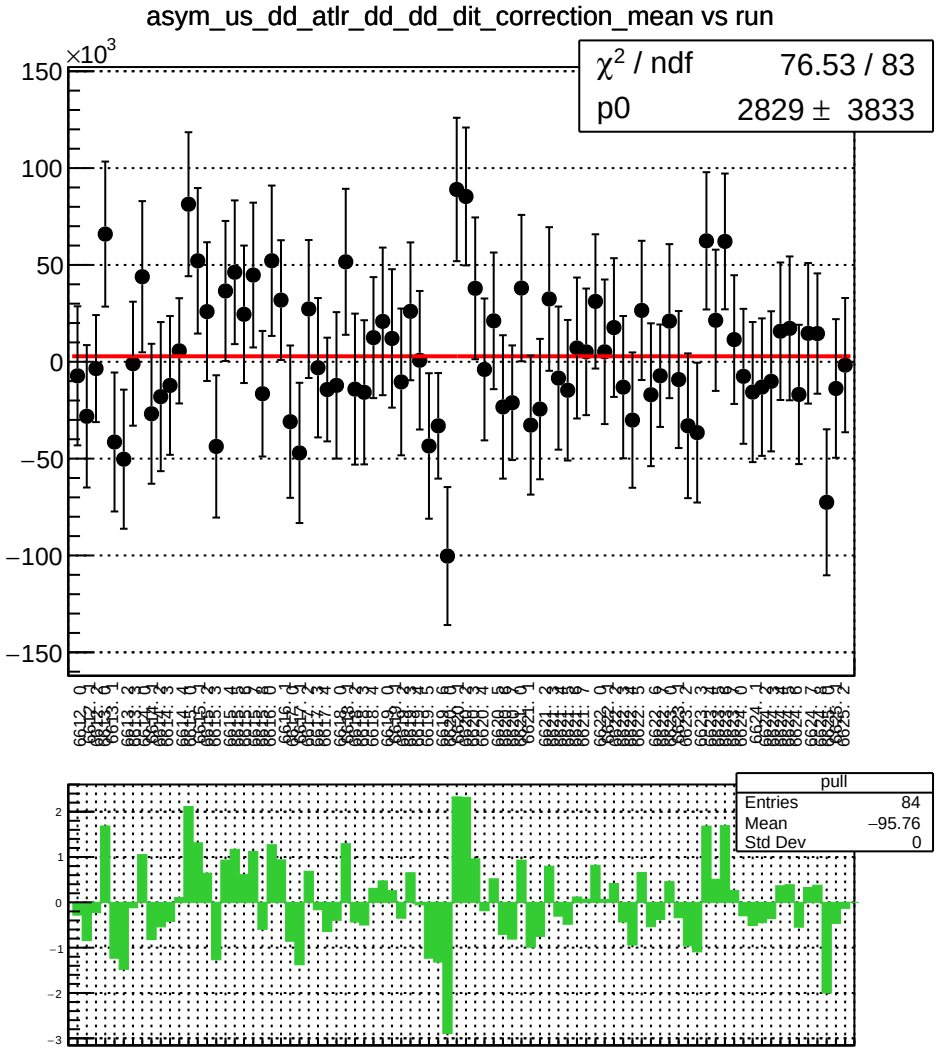

pull1D
Entries 84
Mean 0.0135
Std Dev 0.9385

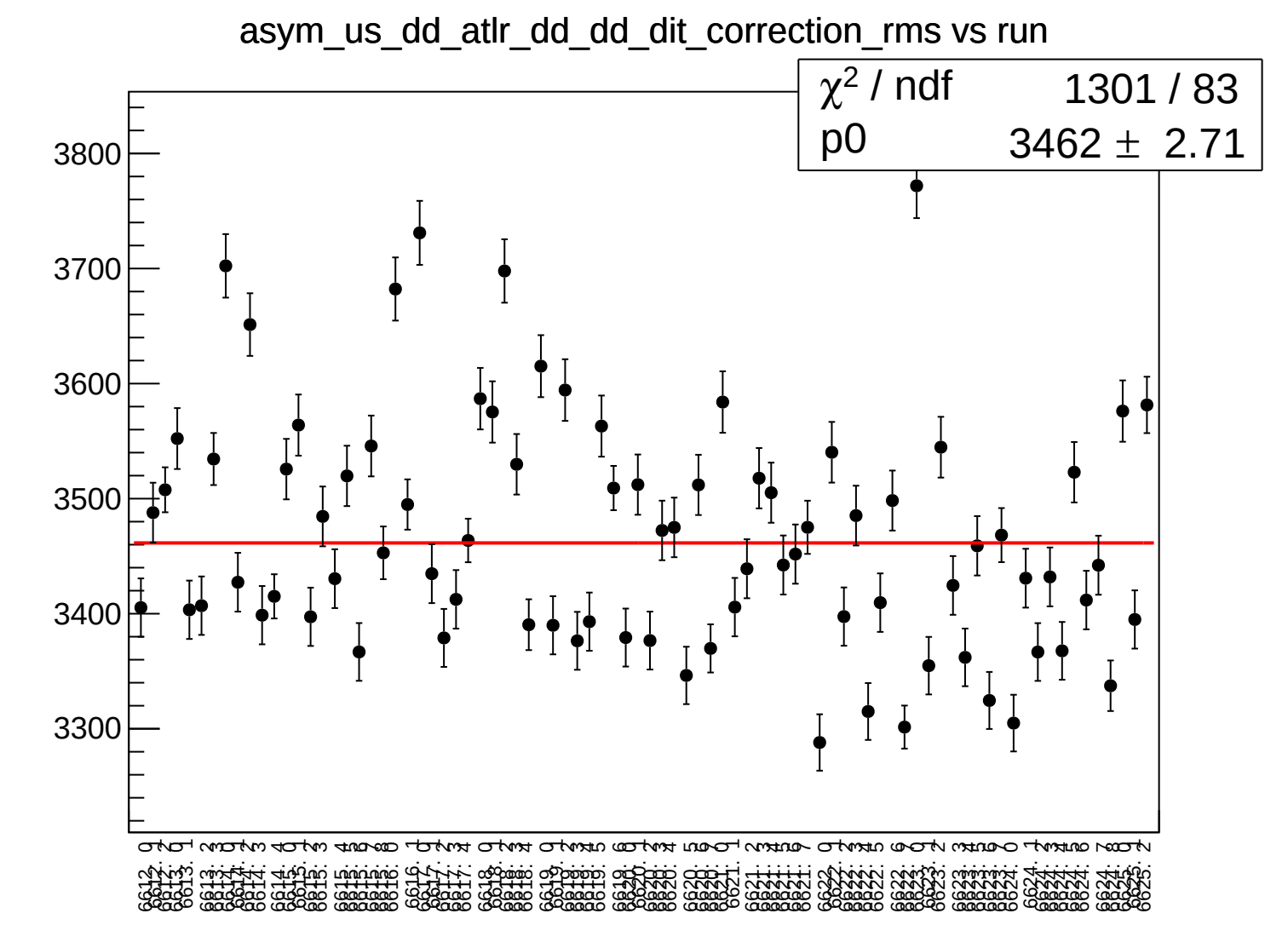

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.088e+04 / 83
p0 2011 ± 1.579
2600
2400
2200
2000
1800
1600

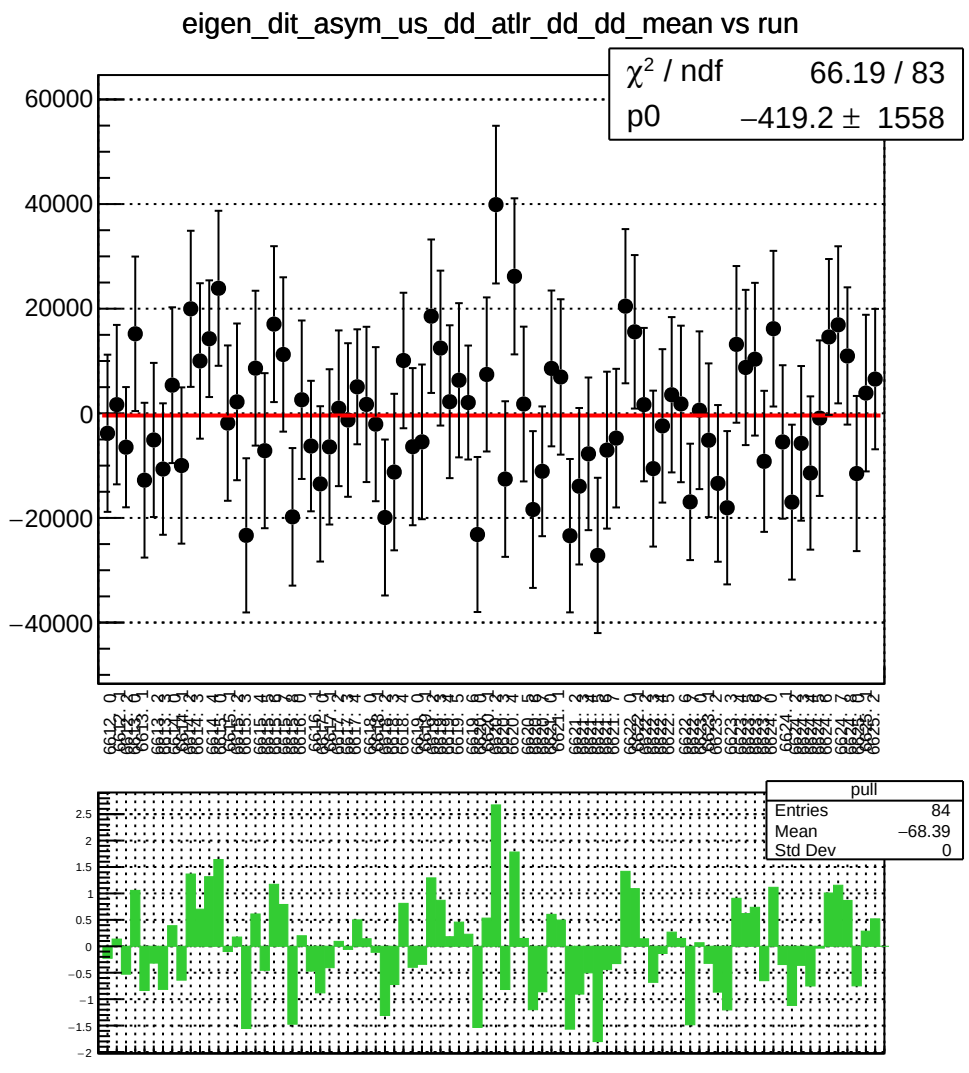

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 66.19 / 83
p0 −419.2 ± 1558
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −68.38
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

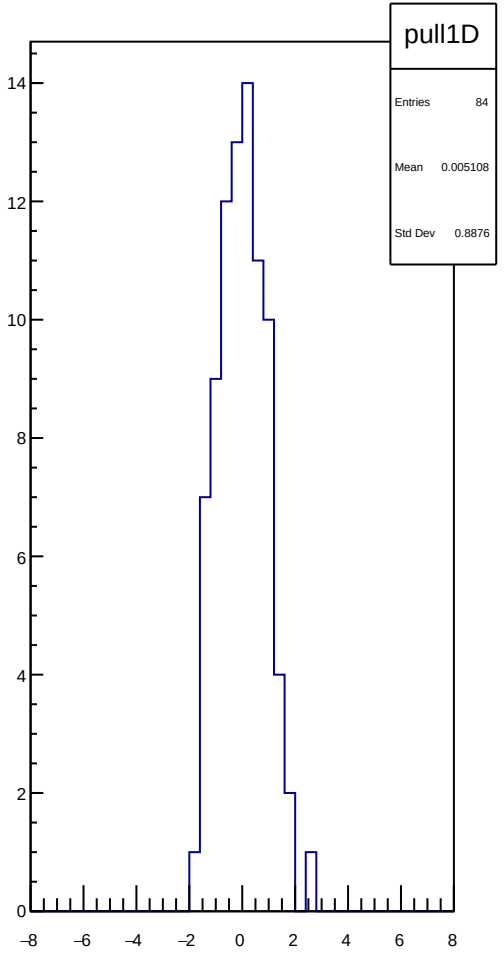

pull1D
Entries 84
Mean 0.005108
Std Dev 0.8876
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

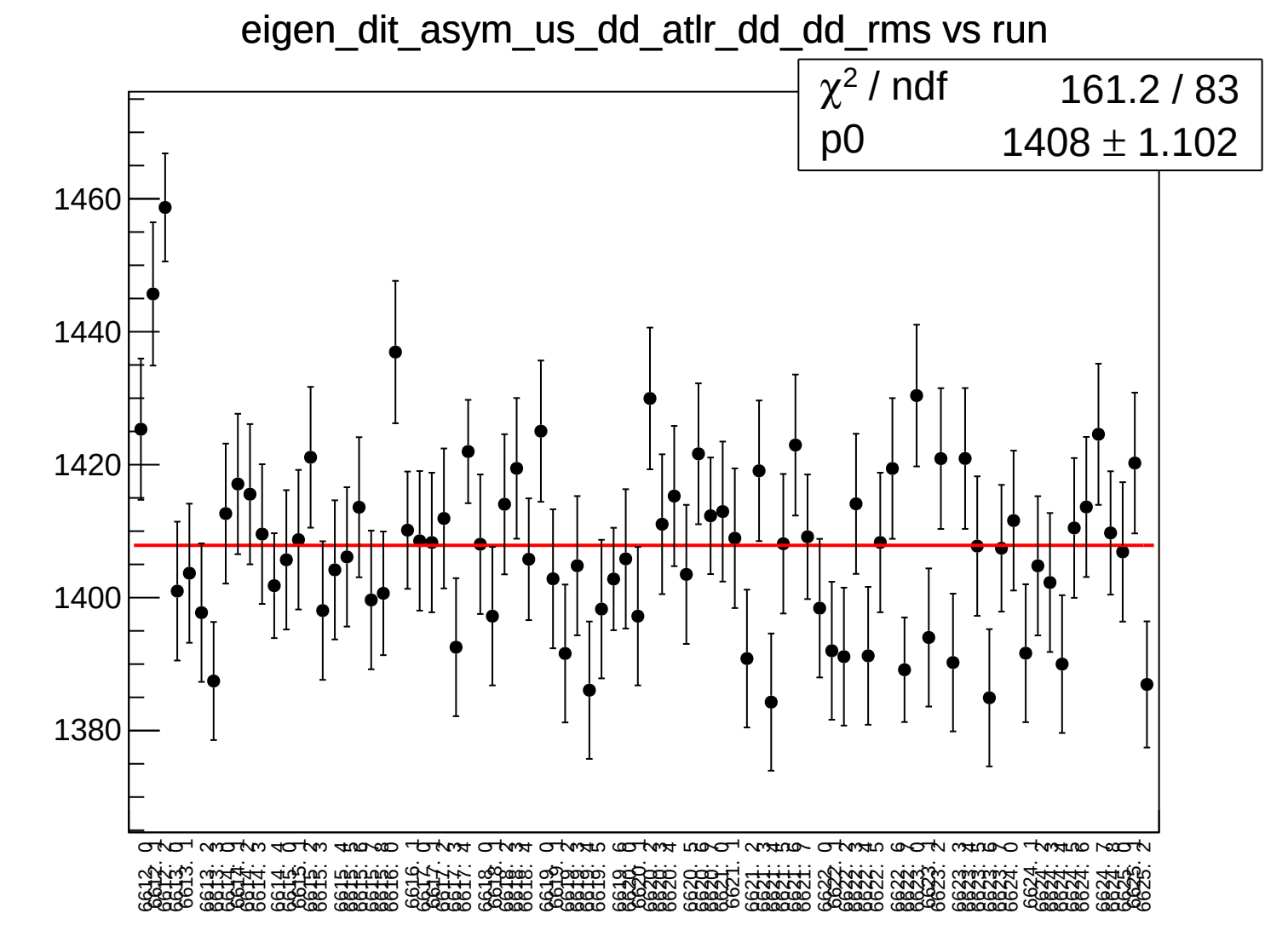

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 161.2 / 83
p0 1408 ± 1.102
1460
1440
1420
1400
1380

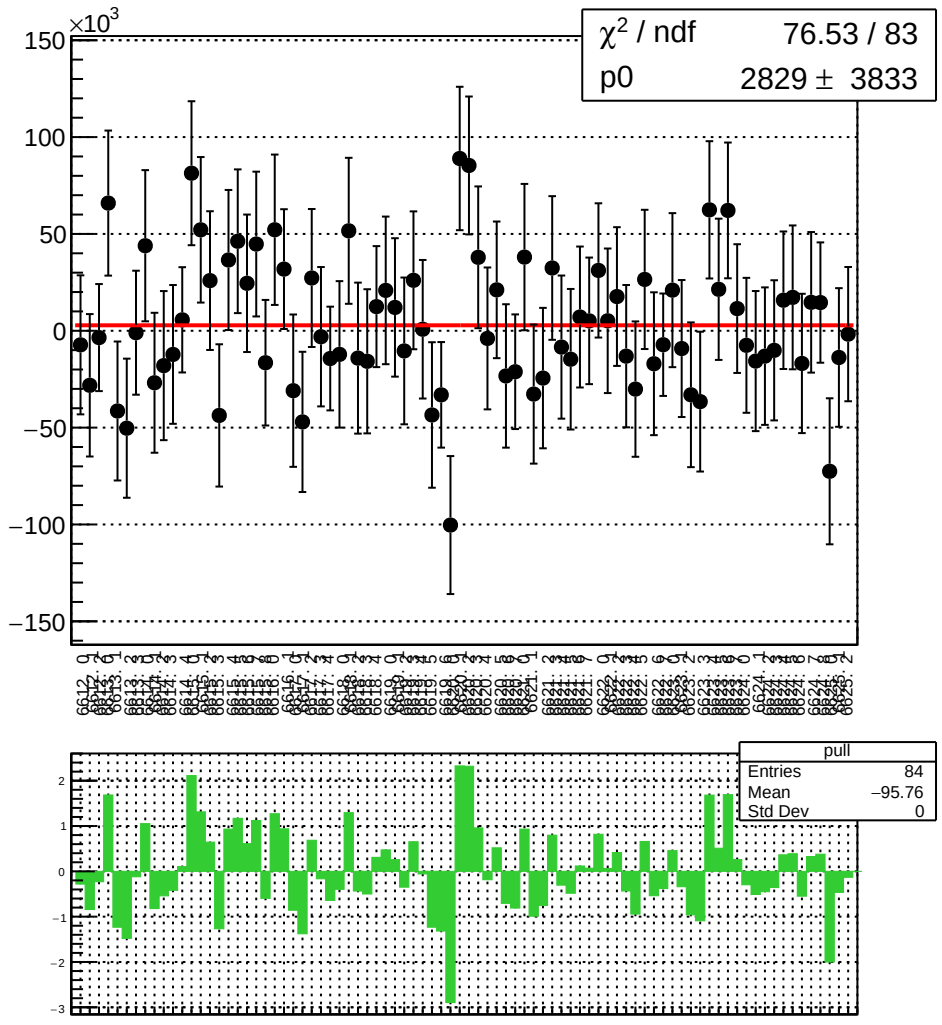

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 76.53 / 83
p0 2829 ± 3833
pull
Entries 84
Mean −95.76
Std Dev 0
pull1D
Entries 84
Mean 0.01137
Std Dev 0.9544

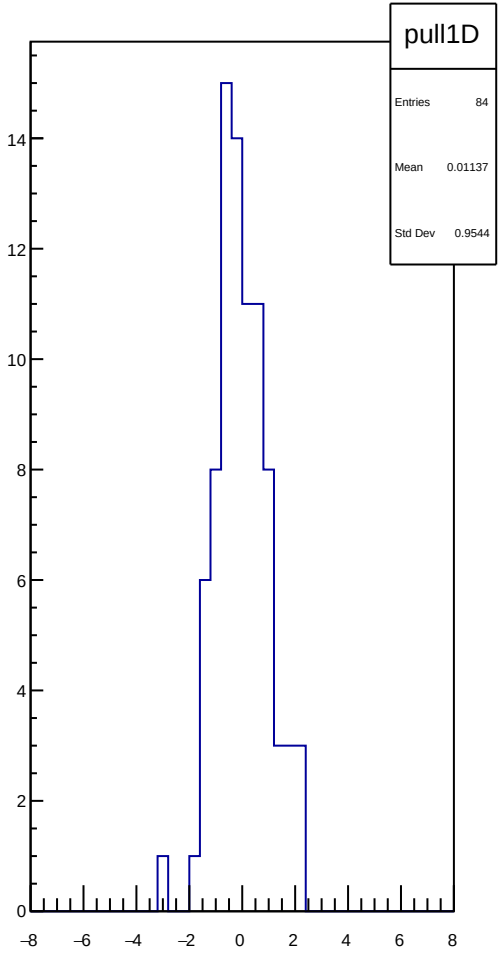

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1301 / 83
p0 3462 ± 2.71
3800
3700
3600
3500
3400
3300

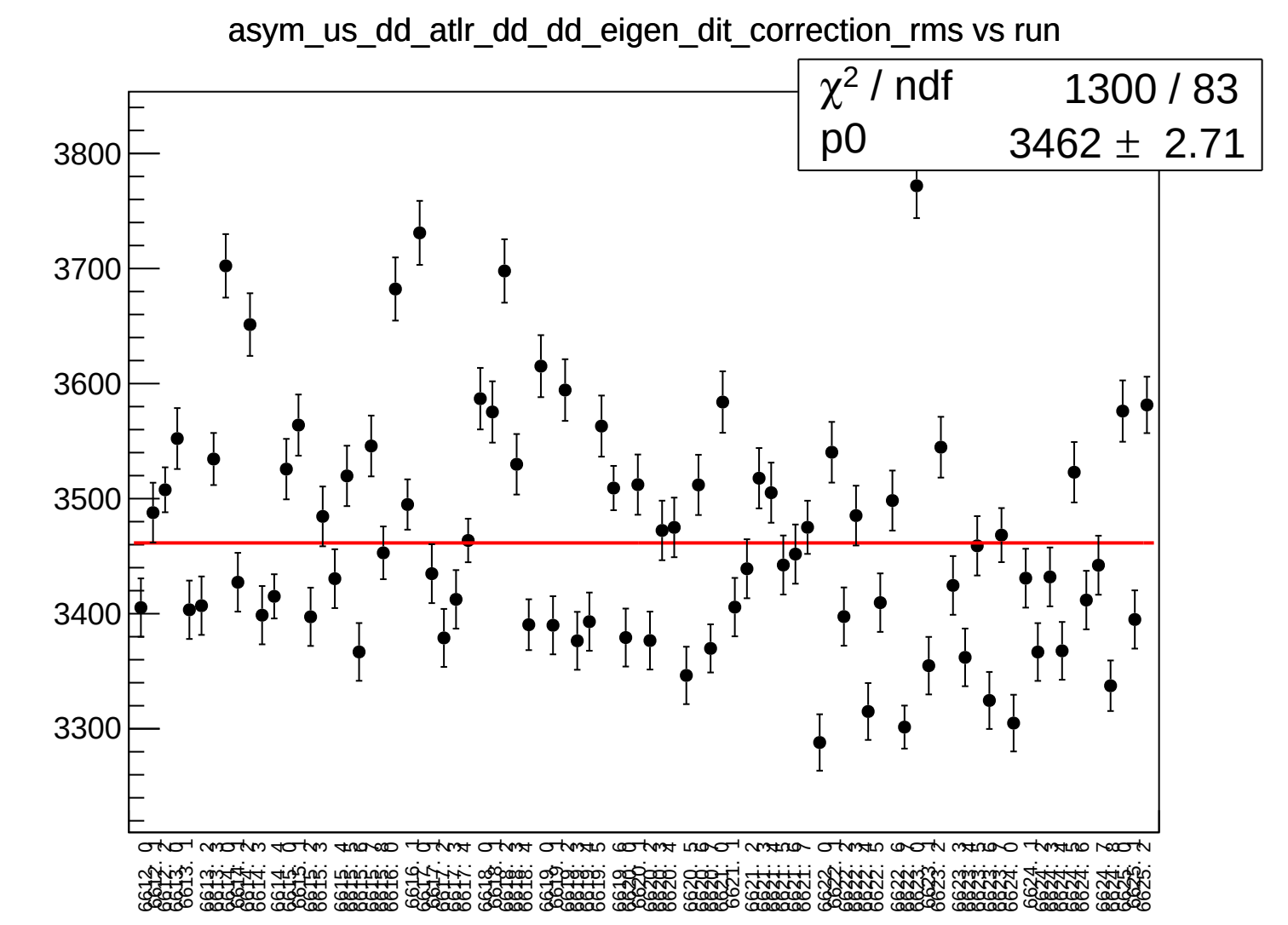

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 66.19 / 83
p0 −419.2 ± 1558
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −68.39
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

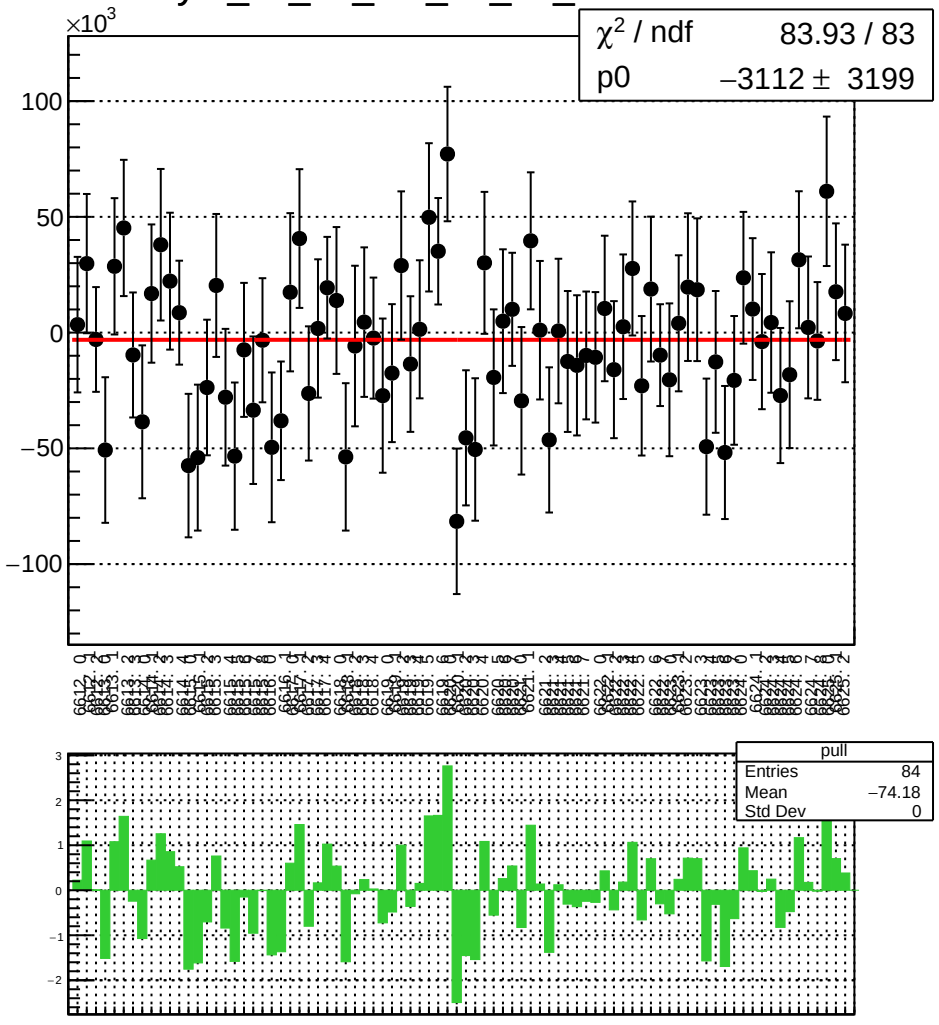

pull1D
Entries 84
Mean 0.005108
Std Dev 0.8876
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

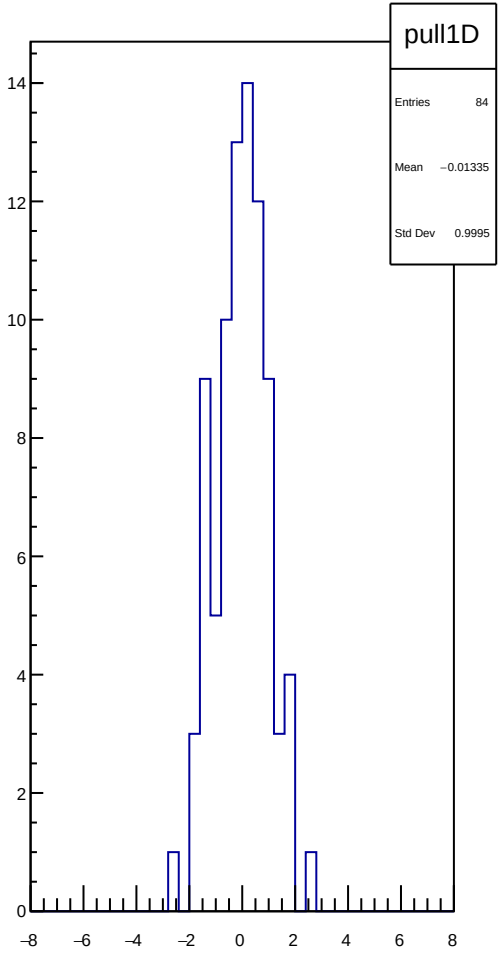

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 161.2 / 83
p0 1408 ± 1.102
1460
1440
1420
1400
1380

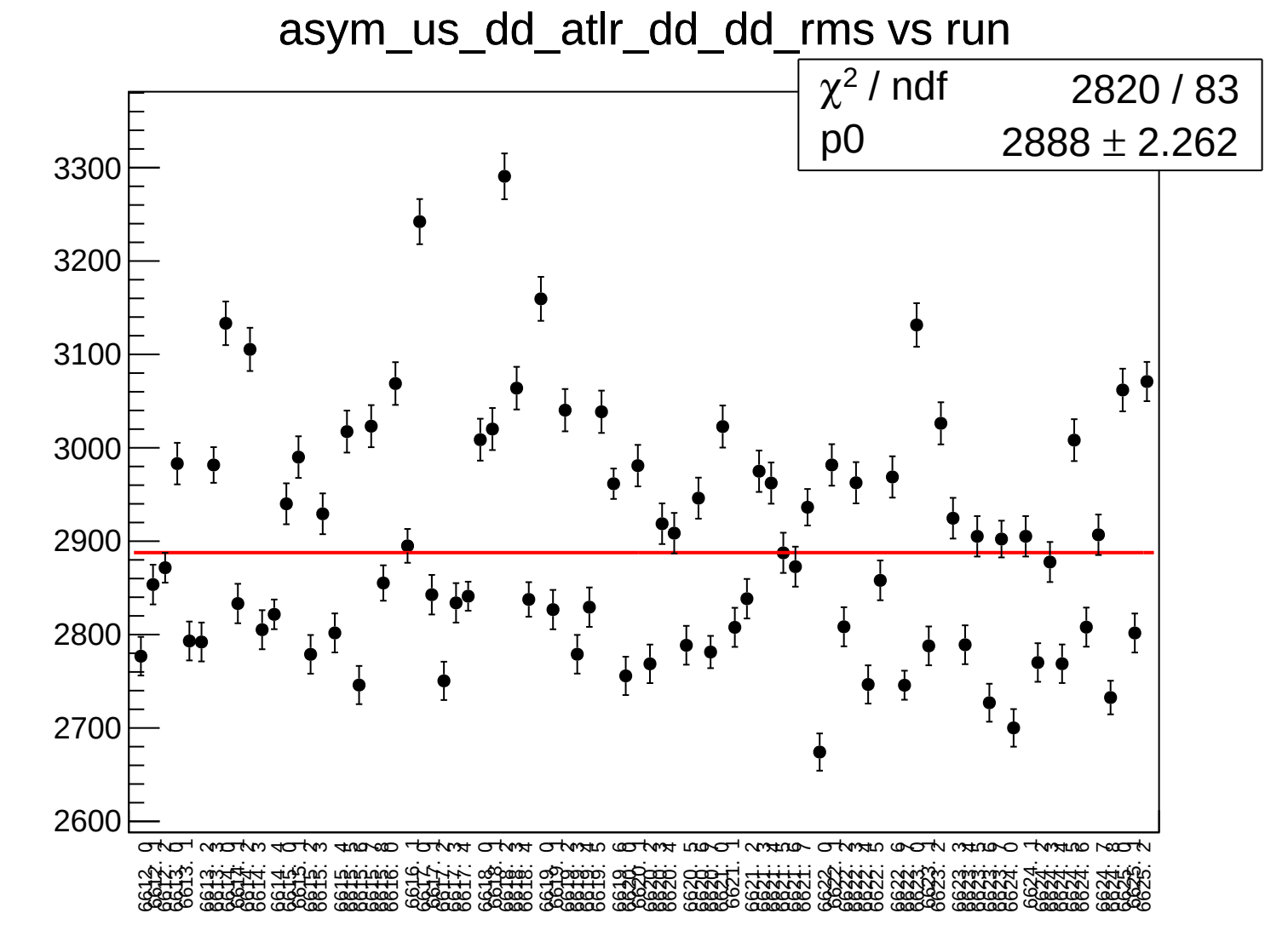

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.53 / 83
p0 2829 ± 3833
pull
Entries 84
Mean −95.76
Std Dev 0

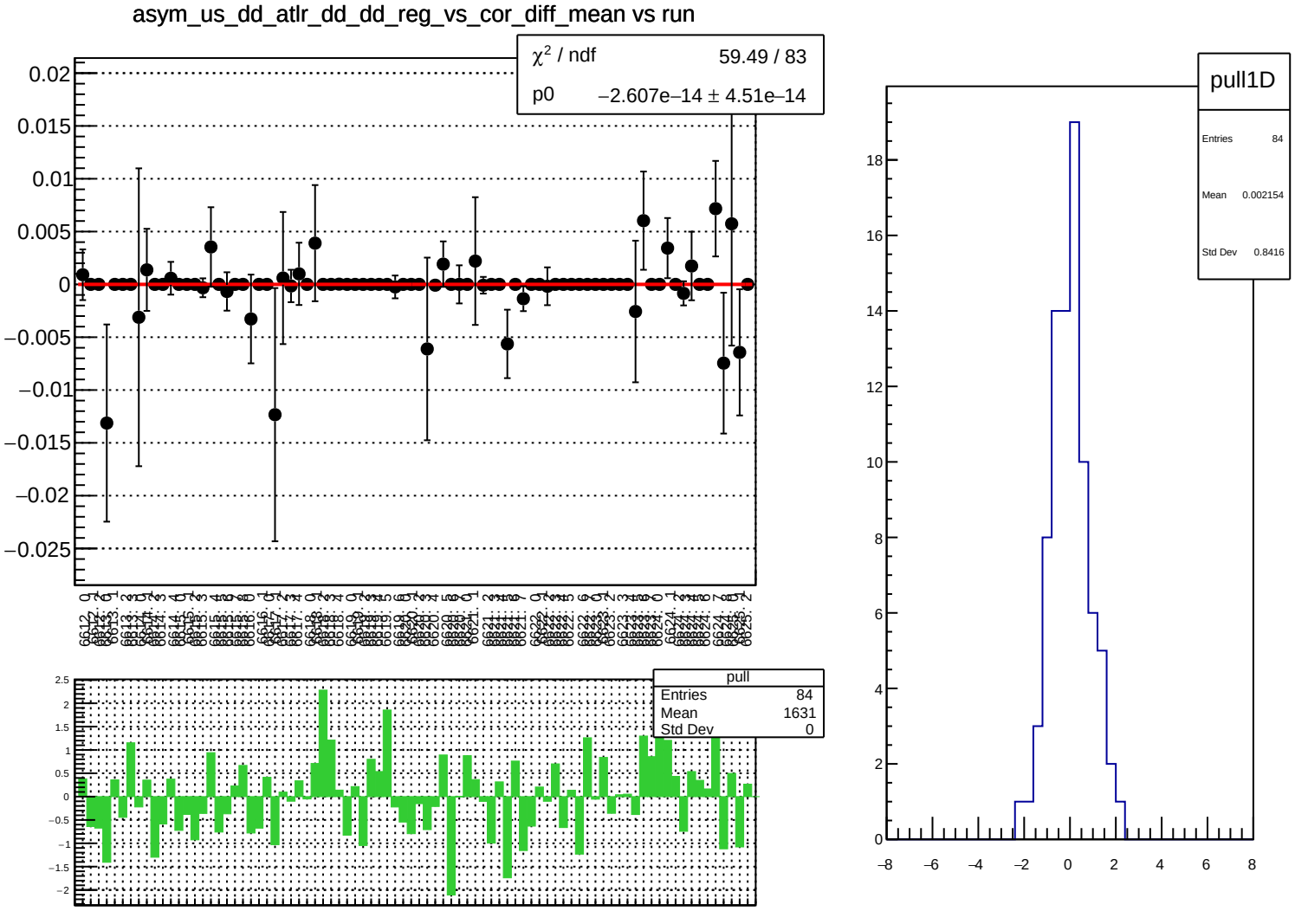

pull1D
Entries 84
Mean 0.01137
Std Dev 0.9544

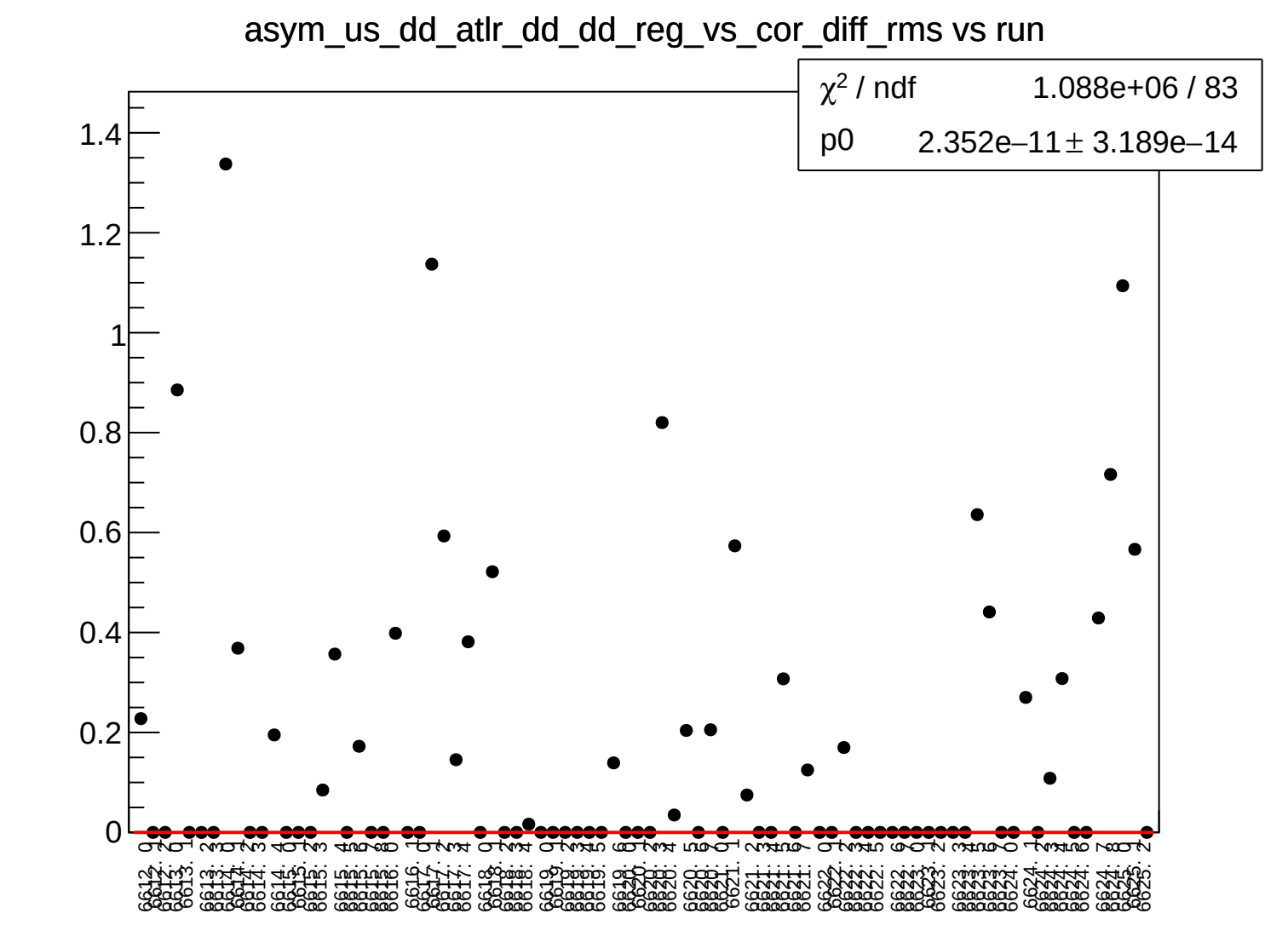

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1300 / 83
p0 3462 ± 2.71
3800
3700
3600
3500
3400
3300

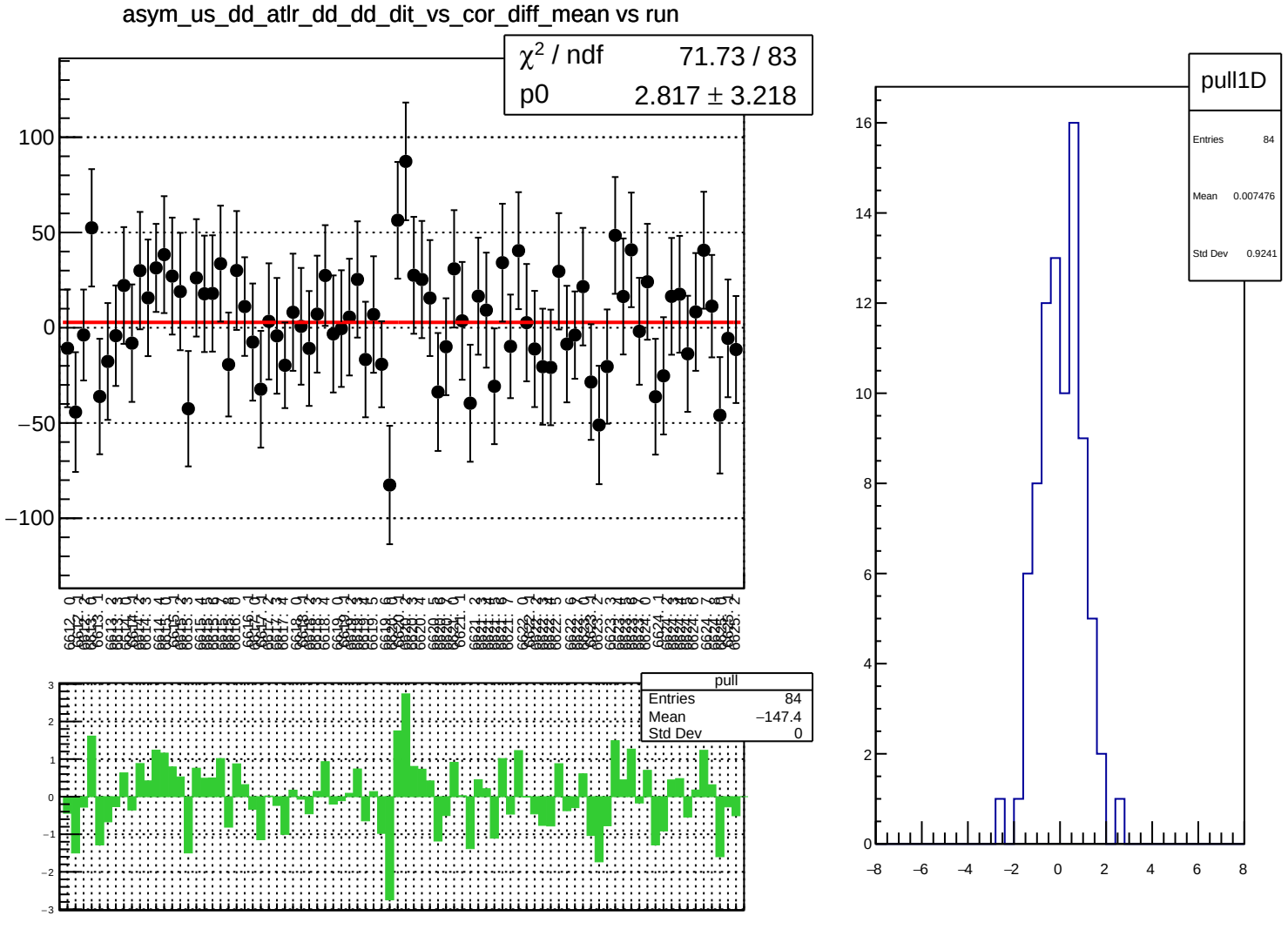

asym_us_dd_atlr_dd_dd_mean vs run
×10^3
χ² / ndf 83.93 / 83
p0 −3112 ± 3199
100
50
0
−50
−100
pull
Entries 84
Mean −74.18
Std Dev 0
3
2
1
0
−1
−2

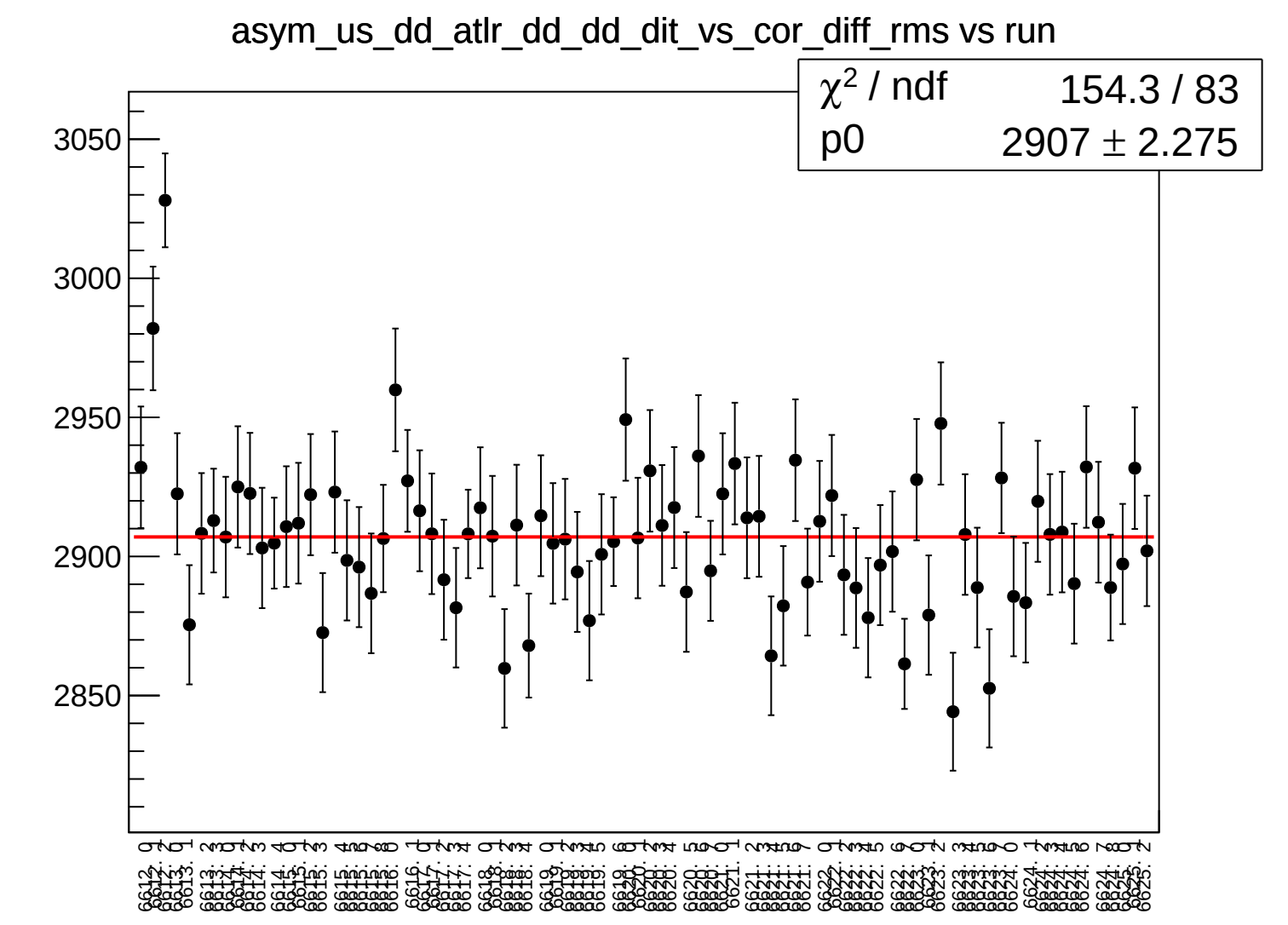

pull1D
Entries 84
Mean −0.01335
Std Dev 0.9995
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

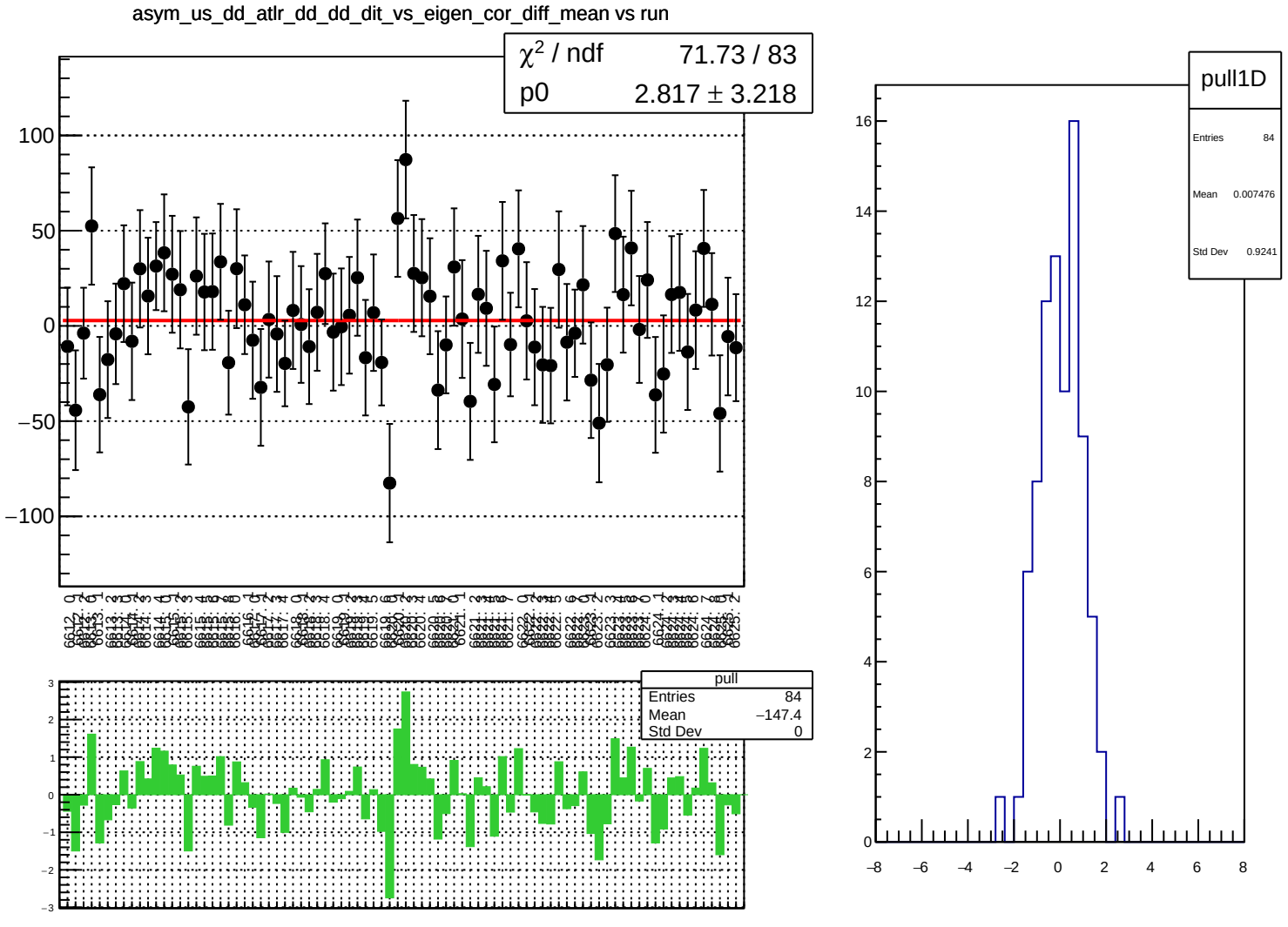

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 2820 / 83
p0 2888 ± 2.262
3300
3200
3100
3000
2900
2800
2700
2600

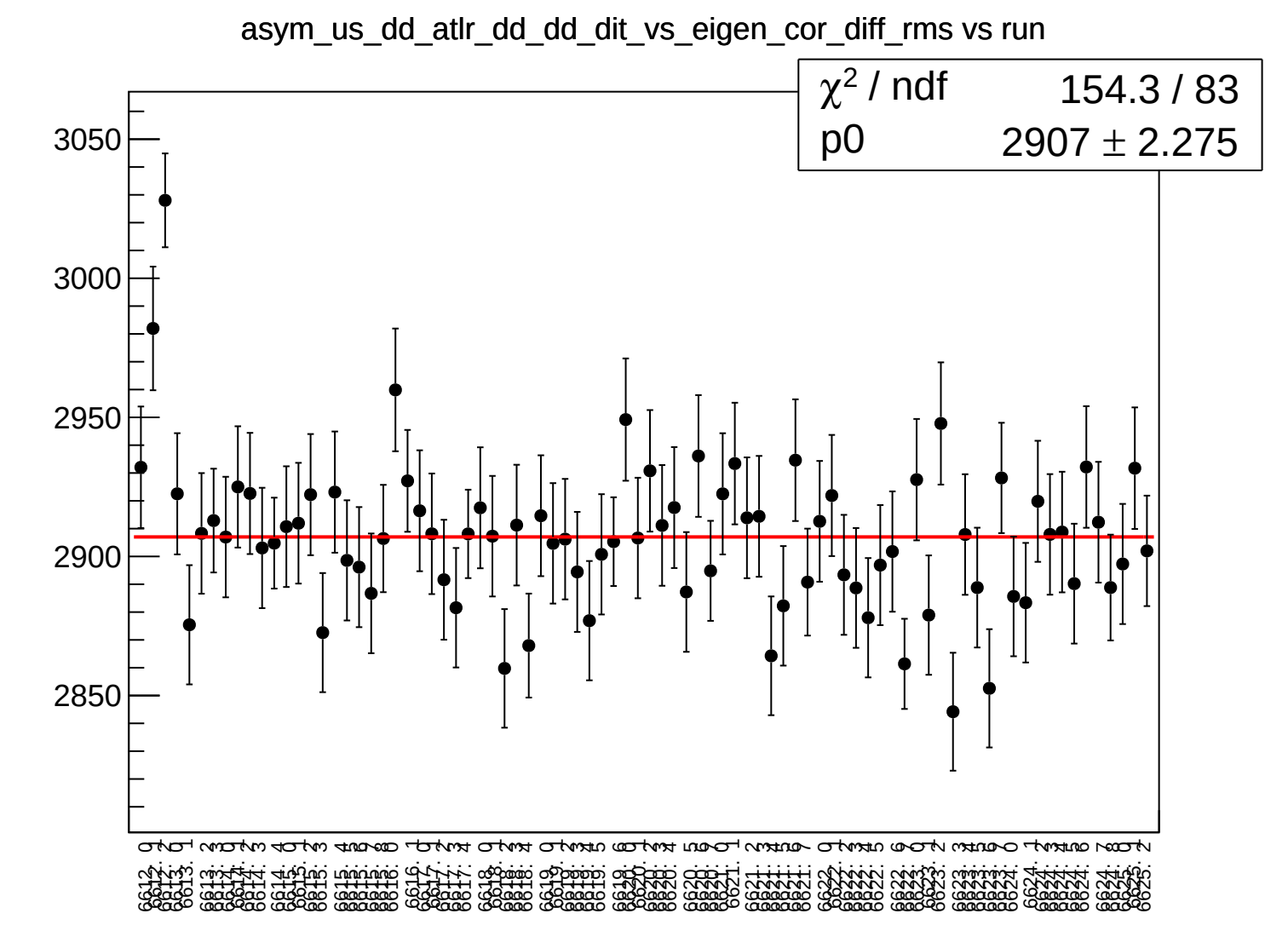

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 59.49 / 83
p0 −2.607e−14 ± 4.51e−14
pull
Entries 84
Mean 1631
Std Dev 0
pull1D
Entries 84
Mean 0.002154
Std Dev 0.8416

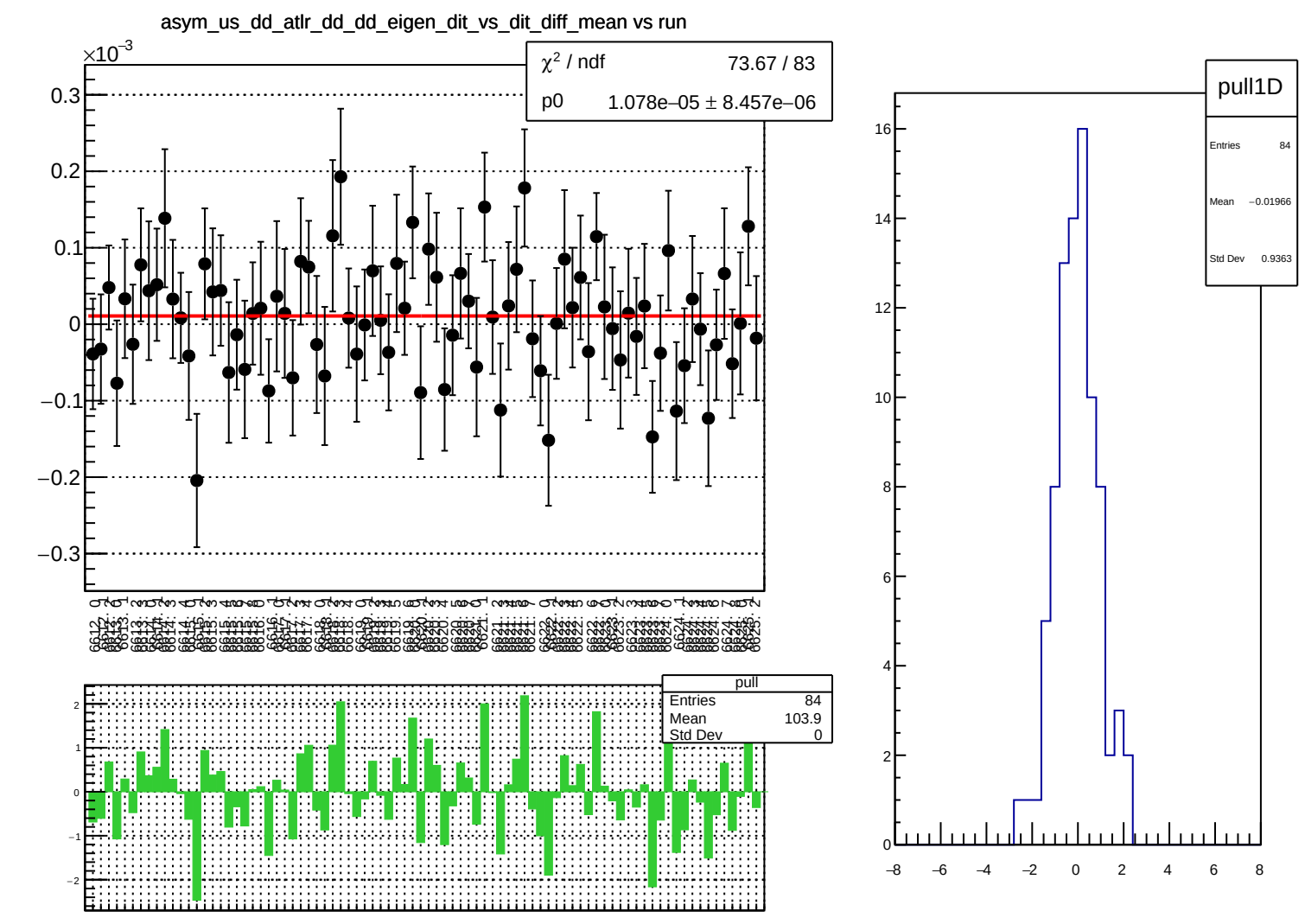

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.088e+06 / 83
p0 2.352e−11 ± 3.189e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

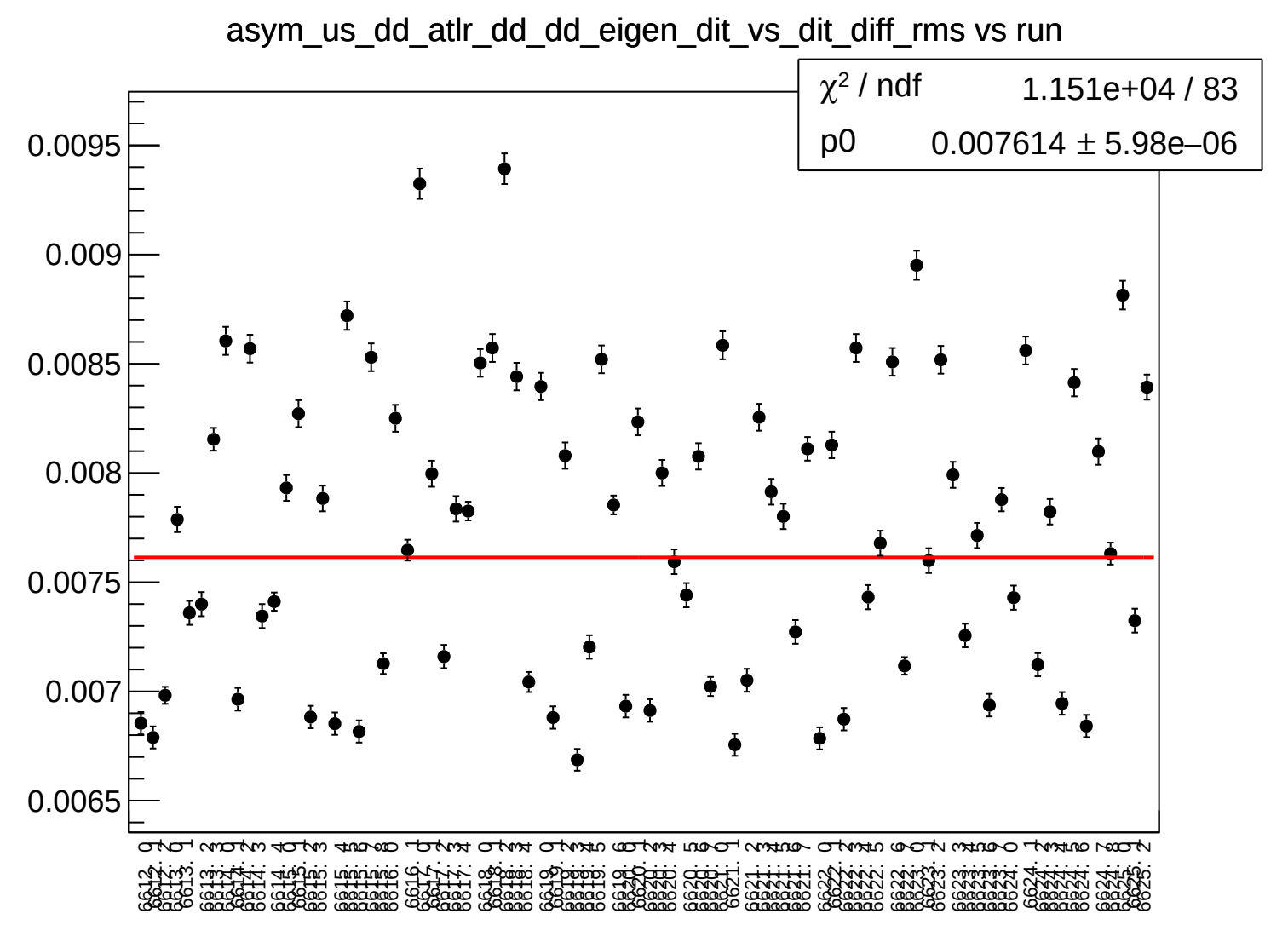

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.73 / 83
p0 2.817 ± 3.218
100
50
0
−50
−100
pull
Entries 84
Mean −147.4
Std Dev 0
pull1D
Entries 84
Mean 0.007476
Std Dev 0.9241

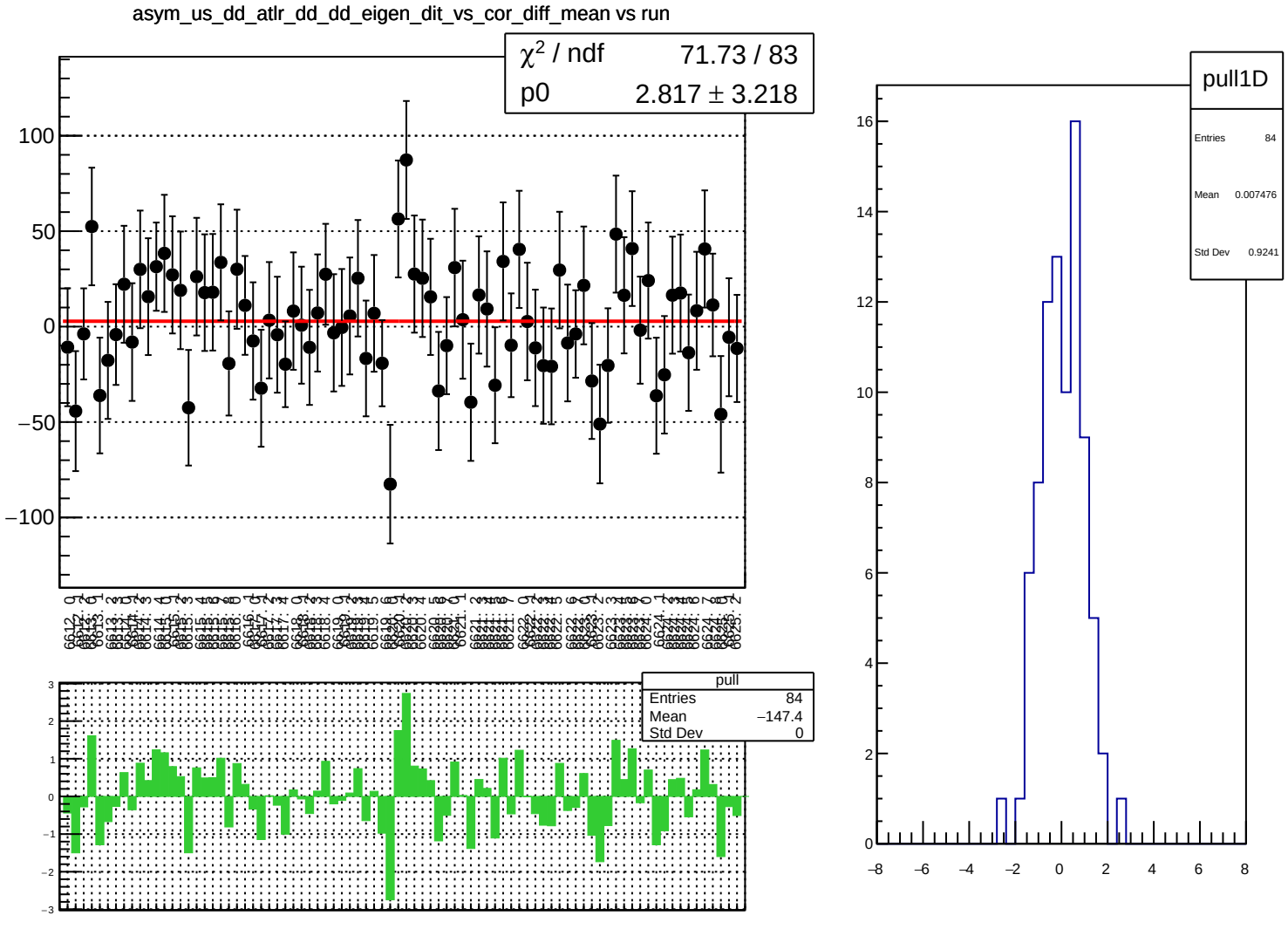

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 154.3 / 83
p0 2907 ± 2.275
3050
3000
2950
2900
2850

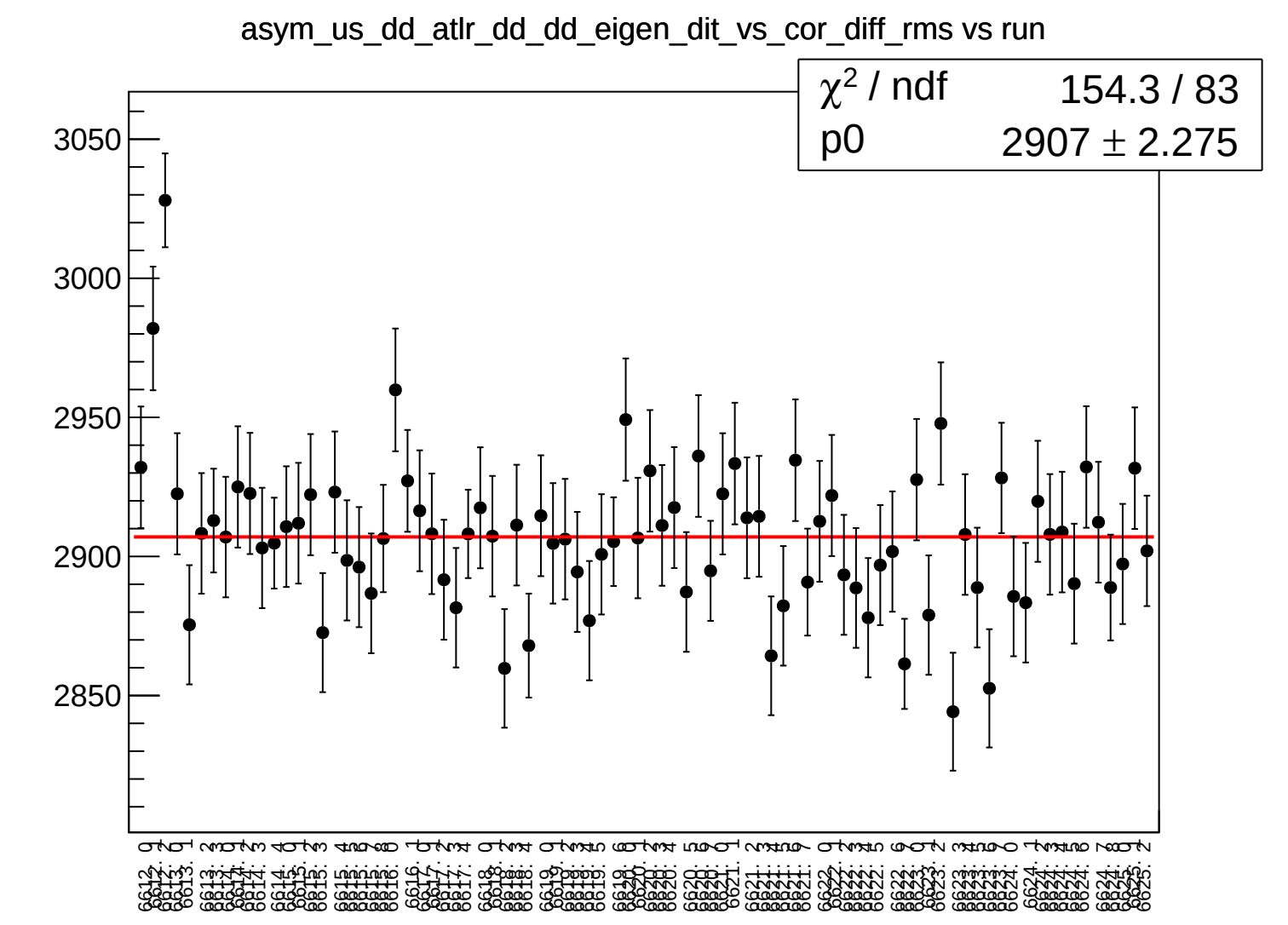

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.73 / 83
p0 2.817 ± 3.218
pull
Entries 84
Mean −147.4
Std Dev 0
pull1D
Entries 84
Mean 0.007476
Std Dev 0.9241

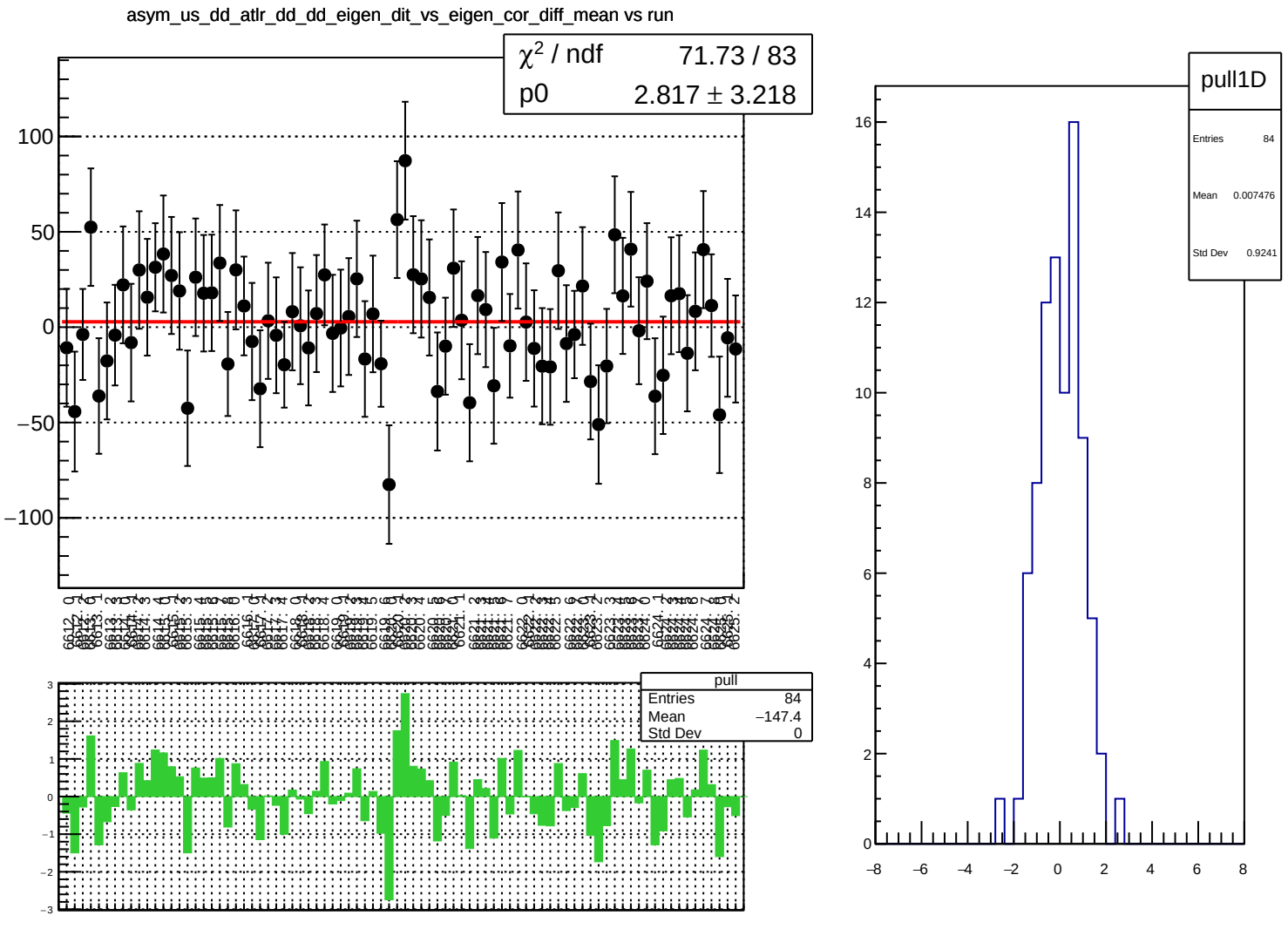

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 154.3 / 83
p0 2907 ± 2.275
3050
3000
2950
2900
2850

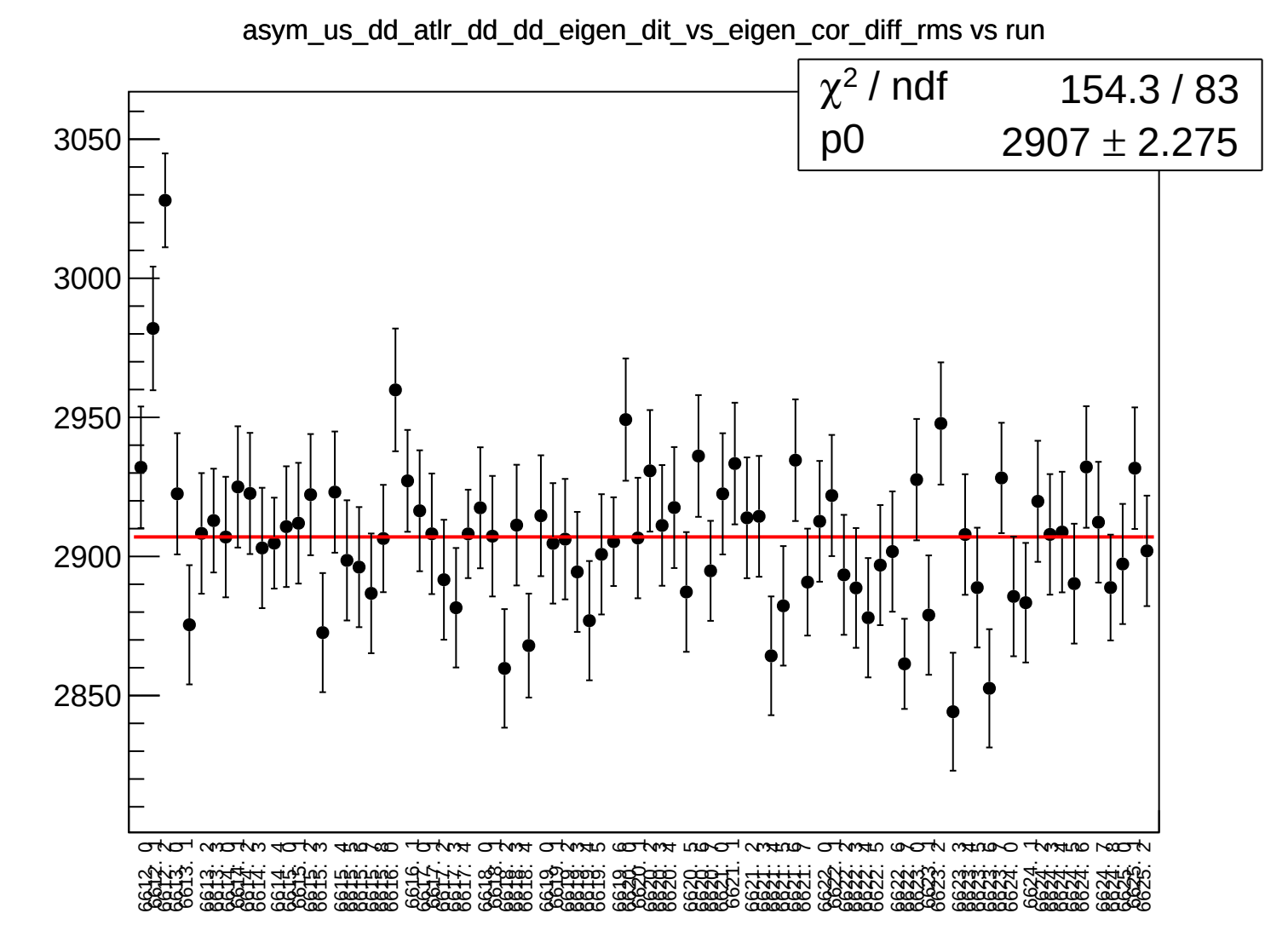

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.67 / 83
p0 1.078e−05 ± 8.457e−06
pull
Entries 84
Mean 103.9
Std Dev 0
pull1D
Entries 84
Mean −0.01966
Std Dev 0.9363

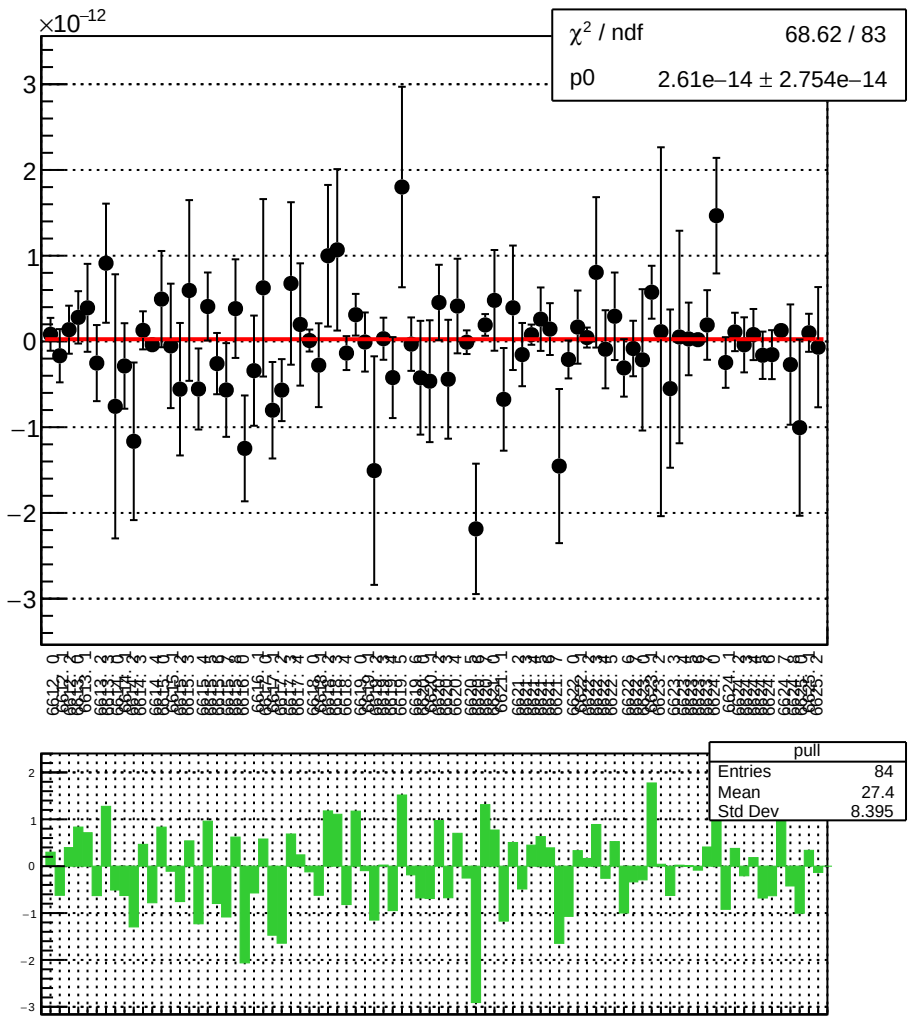

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.151e+04 / 83
p0 0.007614 ± 5.98e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

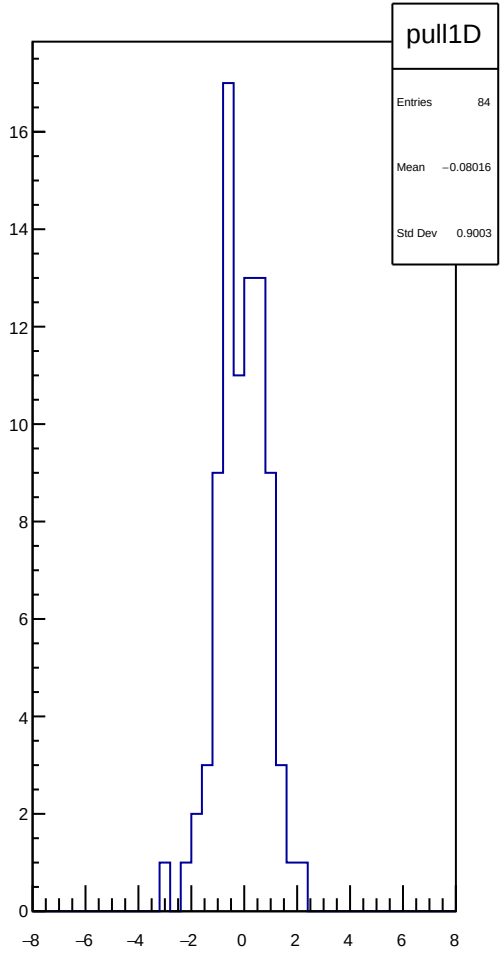

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.73 / 83
p0 2.817 ± 3.218
pull
Entries 84
Mean −147.4
Std Dev 0
pull1D
Entries 84
Mean 0.007476
Std Dev 0.9241

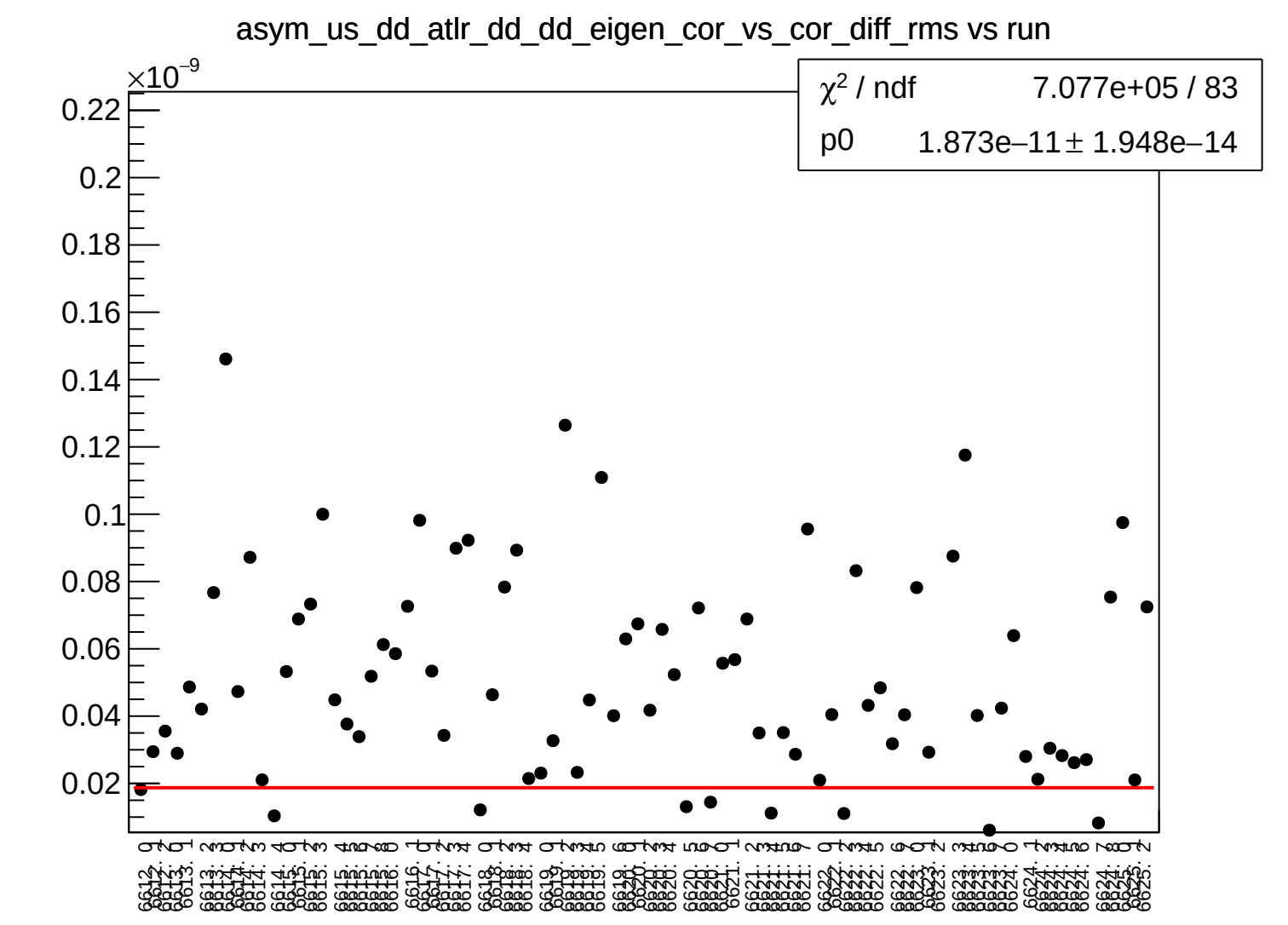

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 154.3 / 83
p0 2907 ± 2.275
3050
3000
2950
2900
2850

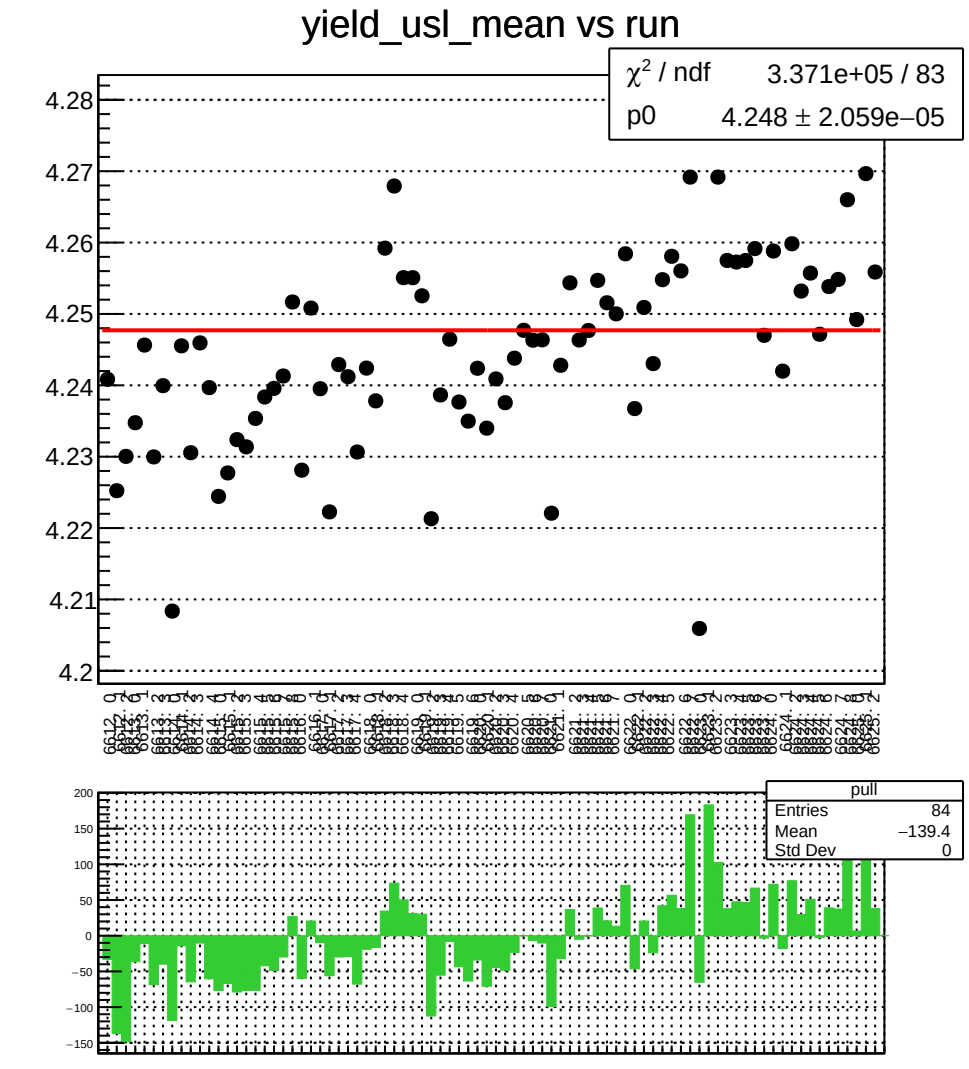

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.73 / 83
p0 2.817 ± 3.218
pull
Entries 84
Mean −147.4
Std Dev 0
pull1D
Entries 84
Mean 0.007476
Std Dev 0.9241

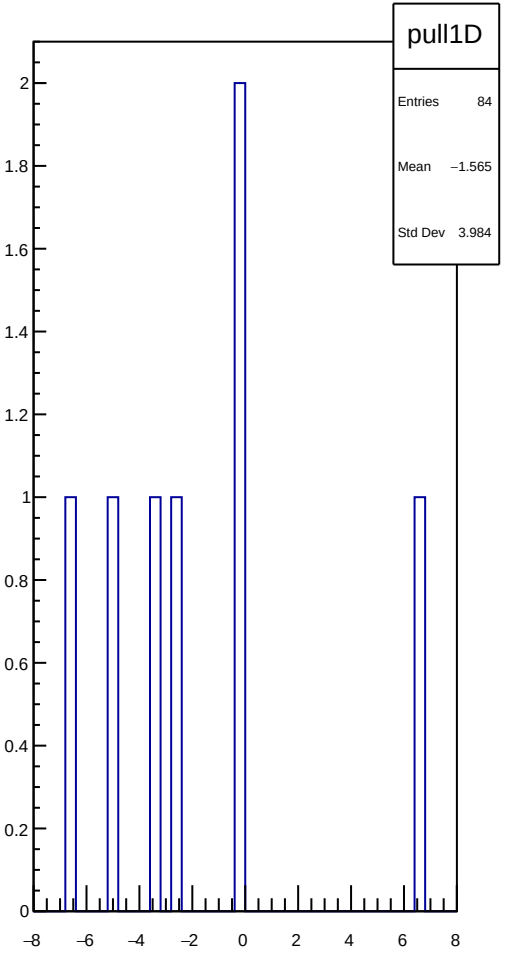

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 154.3 / 83
p0 2907 ± 2.275
3050
3000
2950
2900
2850

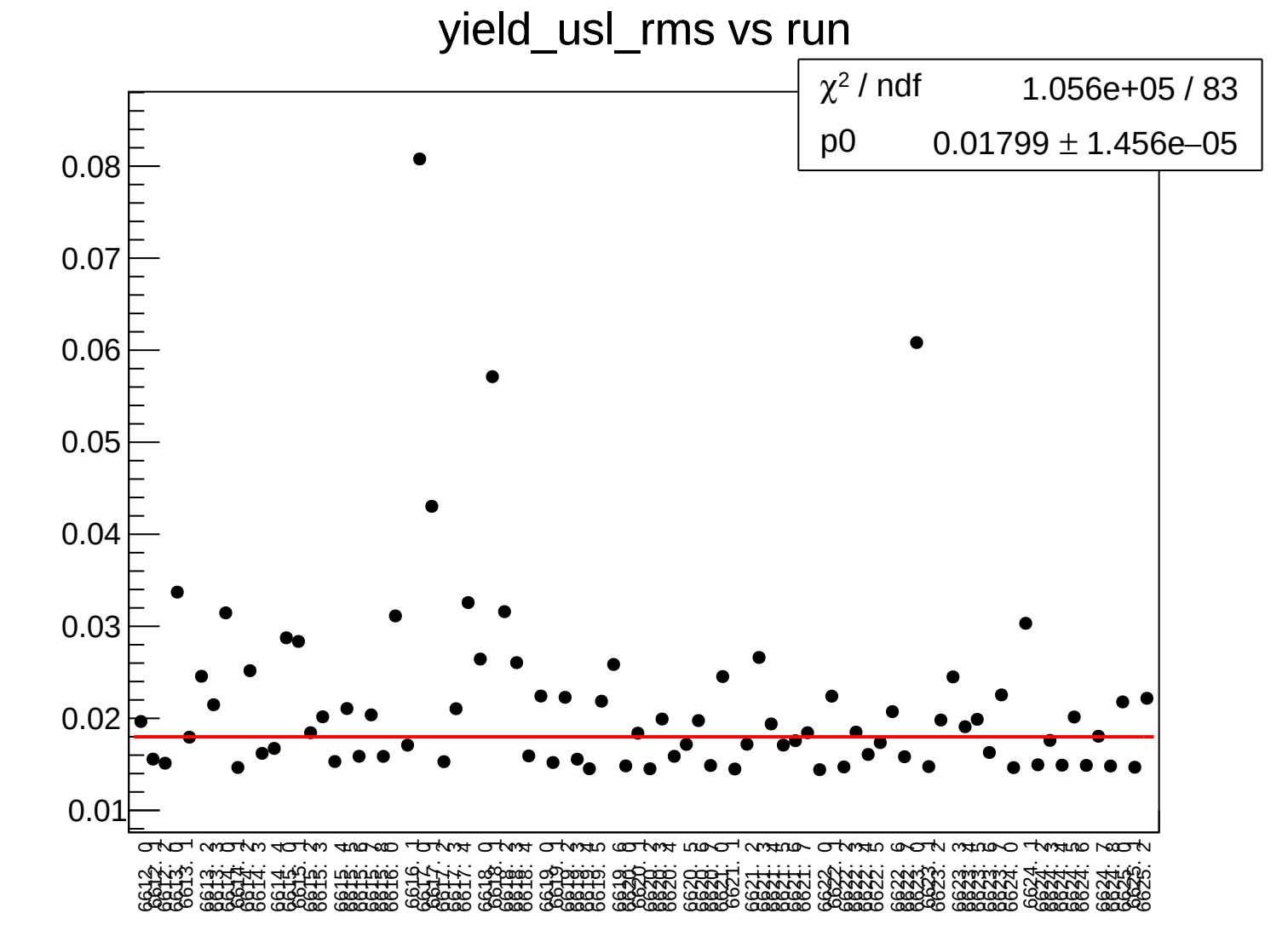

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.62 / 83
p0 2.61e−14 ± 2.754e−14
pull
Entries 84
Mean 27.4
Std Dev 8.395

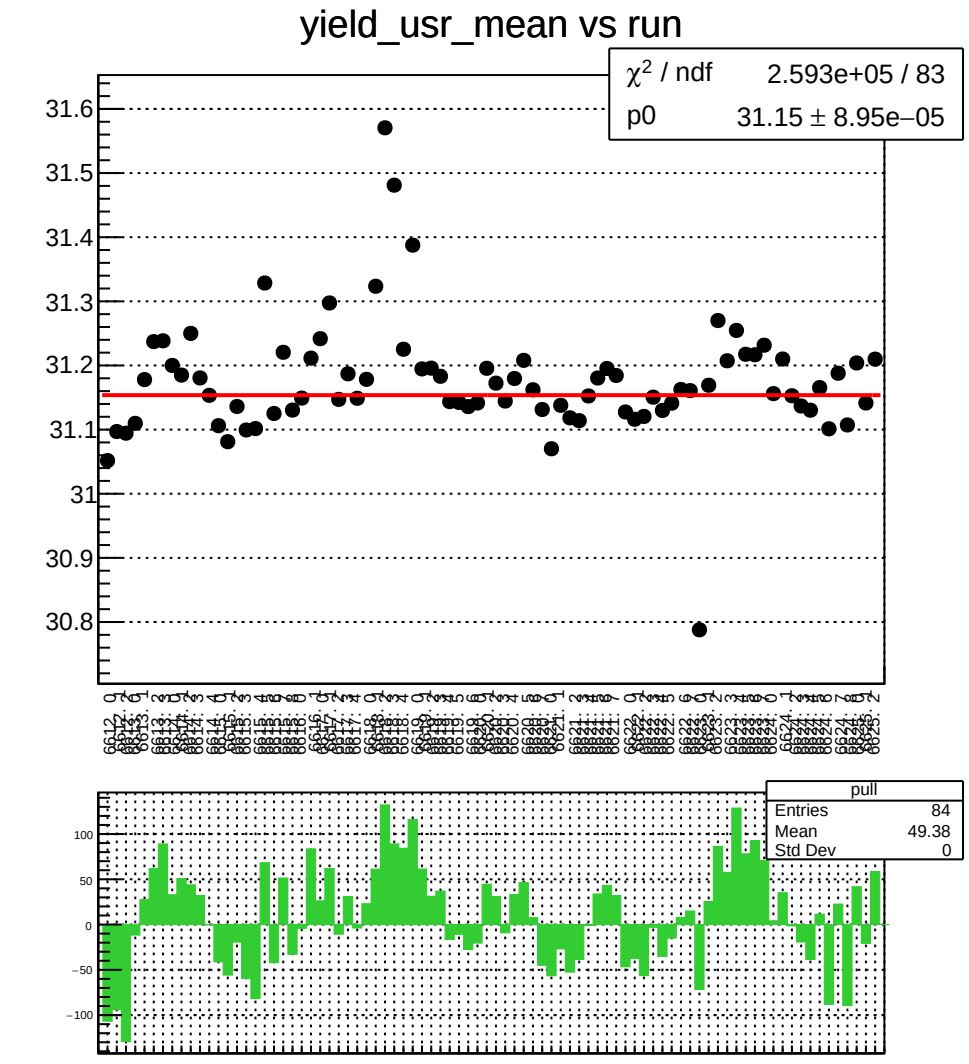

pull1D
Entries 84
Mean −0.08016
Std Dev 0.9003

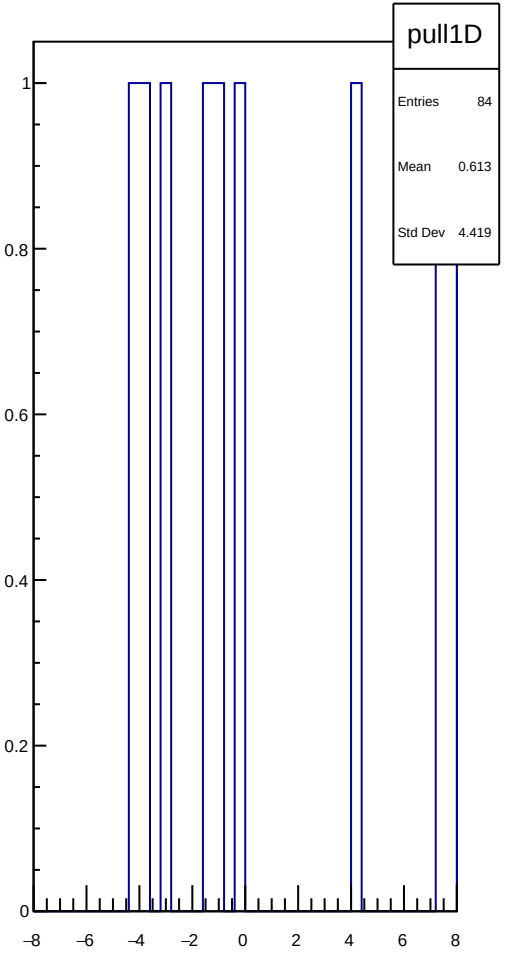

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.077e+05 / 83
p0 1.873e−11 ± 1.948e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

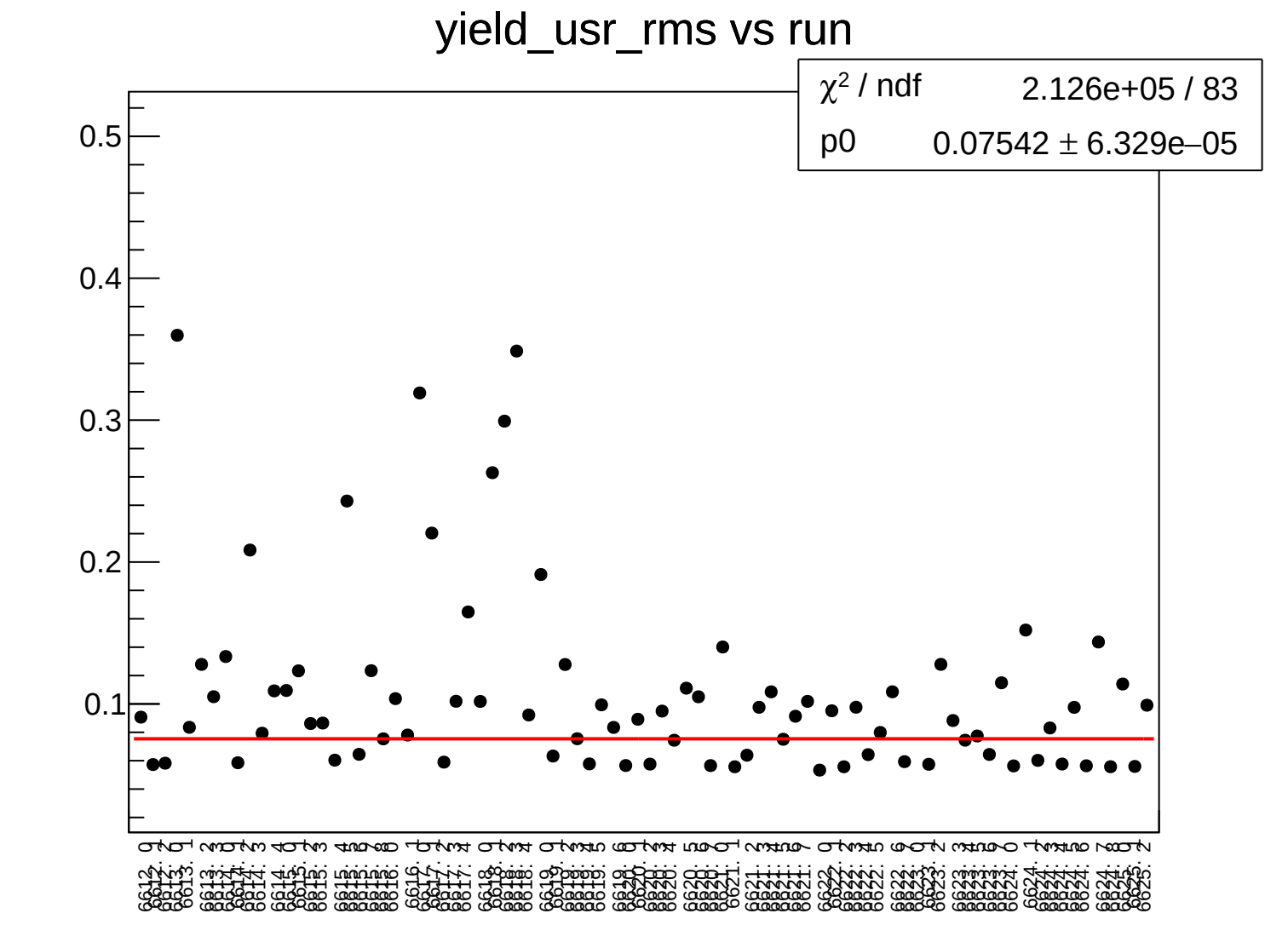

yield_usl_mean vs run
χ² / ndf 3.371e+05 / 83
p0 4.248 ± 2.059e−05
4.28
4.27
4.26
4.25
4.24
4.23
4.22
4.21
4.2
pull
Entries 84
Mean −139.4
Std Dev 0
200
150
100
50
0
−50
−100
−150

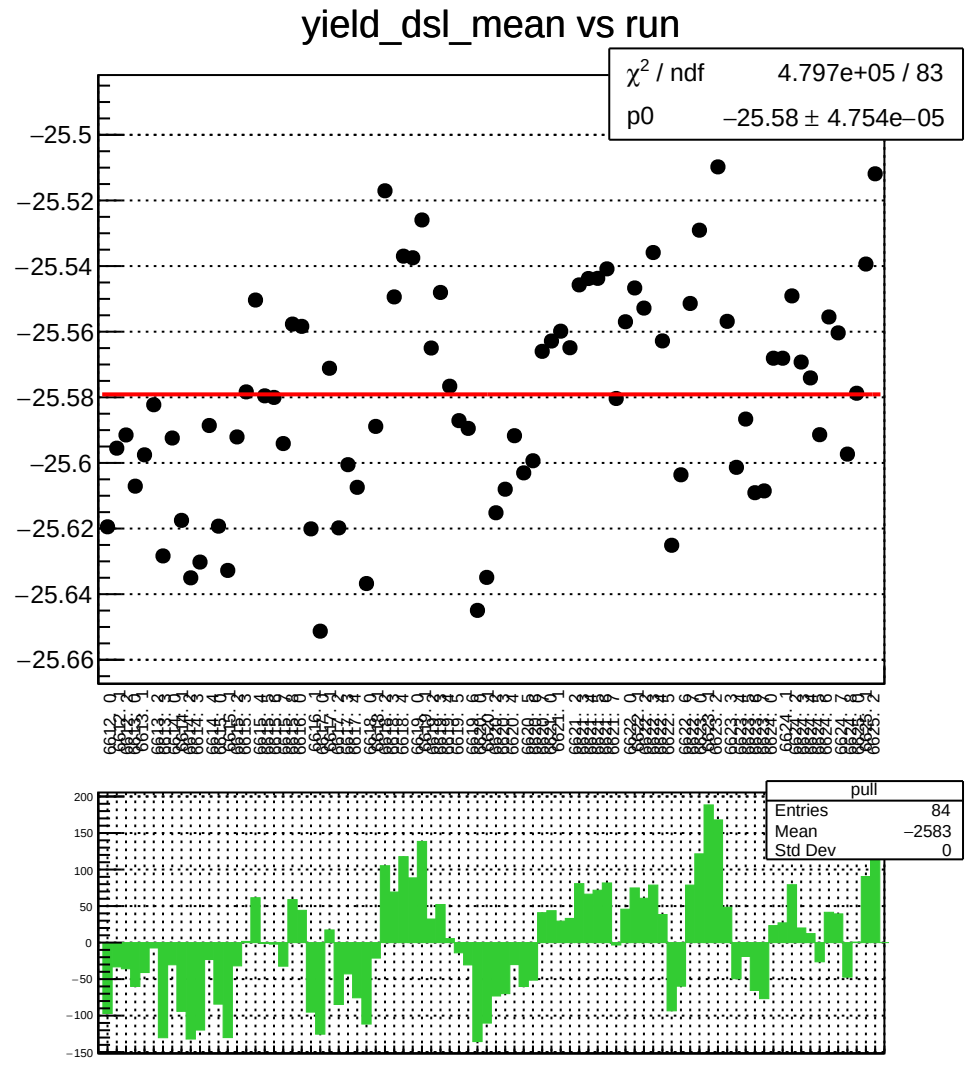

pull1D
Entries 84
Mean −1.565
Std Dev 3.984
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

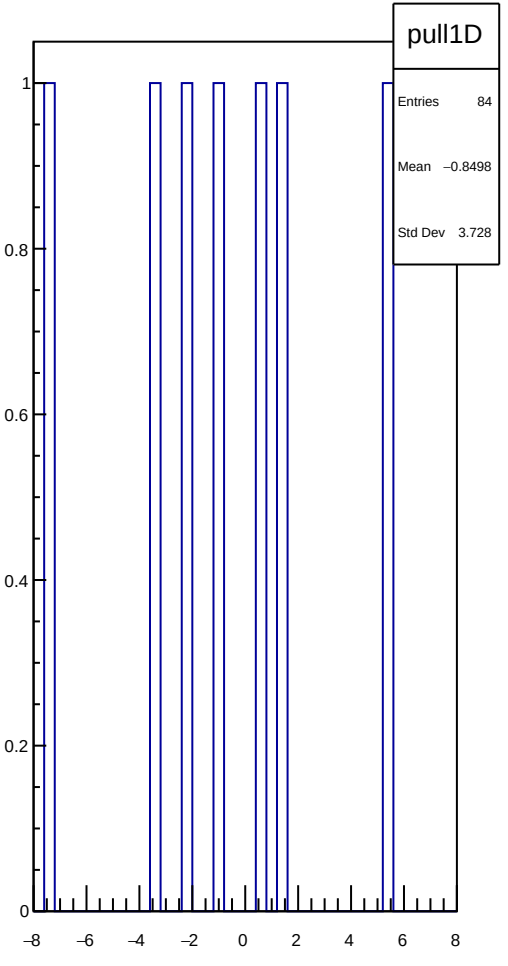

yield_usl_rms vs run
χ² / ndf 1.056e+05 / 83
p0 0.01799 ± 1.456e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

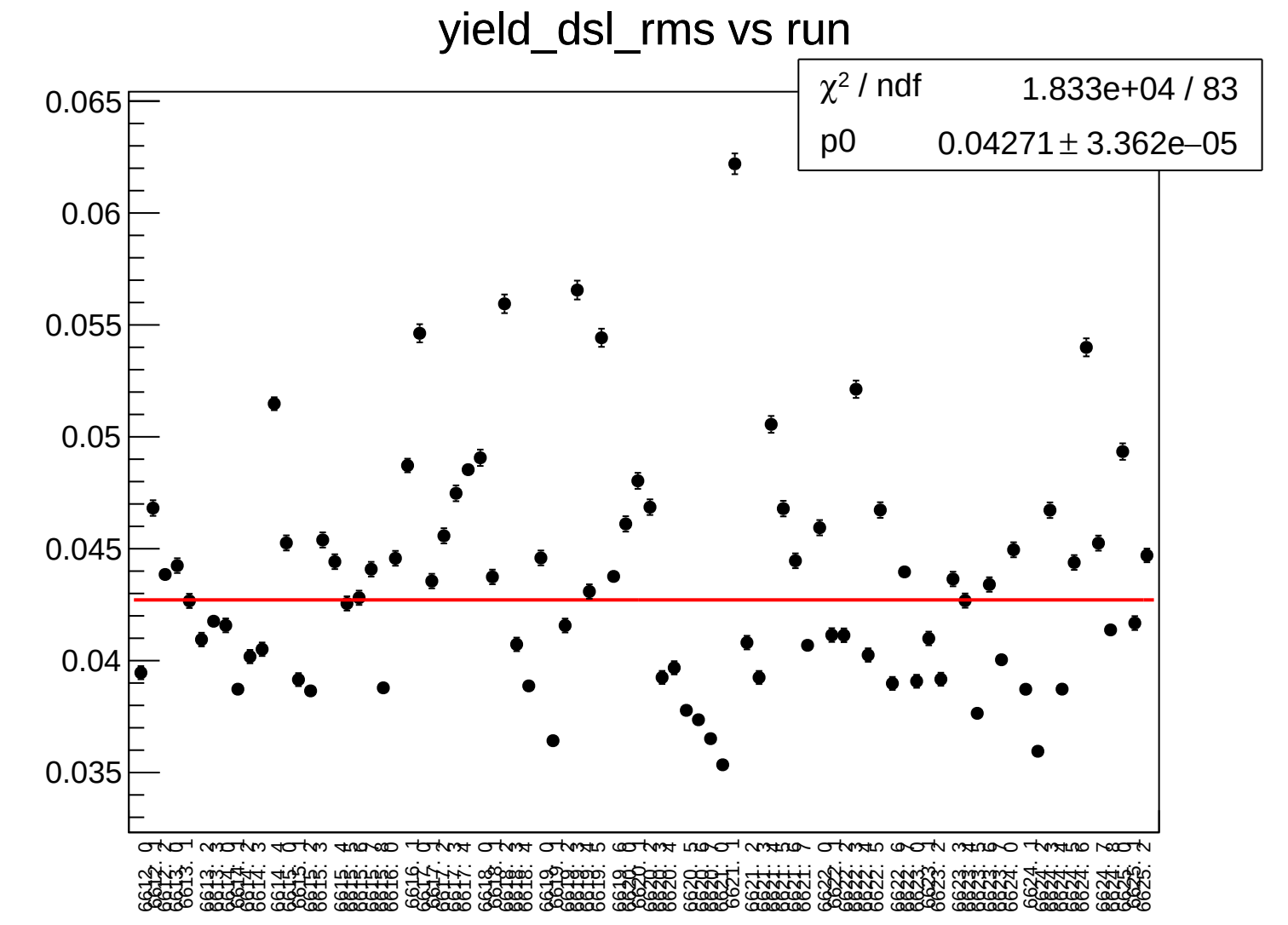

yield_usr_mean vs run
χ² / ndf 2.593e+05 / 83
p0 31.15 ± 8.95e−05
31.6
31.5
31.4
31.3
31.2
31.1
31
30.9
30.8
pull
Entries 84
Mean 49.38
Std Dev 0
100
50
0
−50
−100

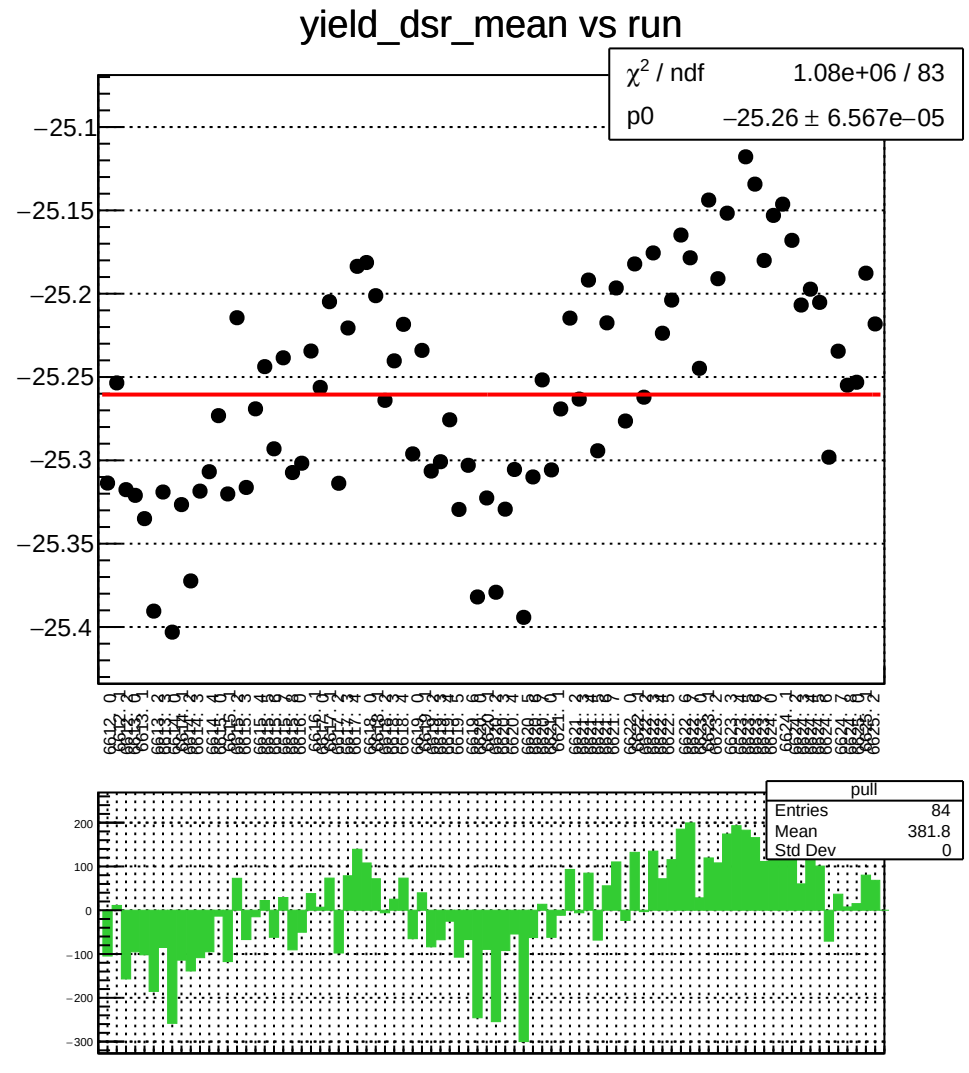

pull1D
Entries 84
Mean 0.613
Std Dev 4.419
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

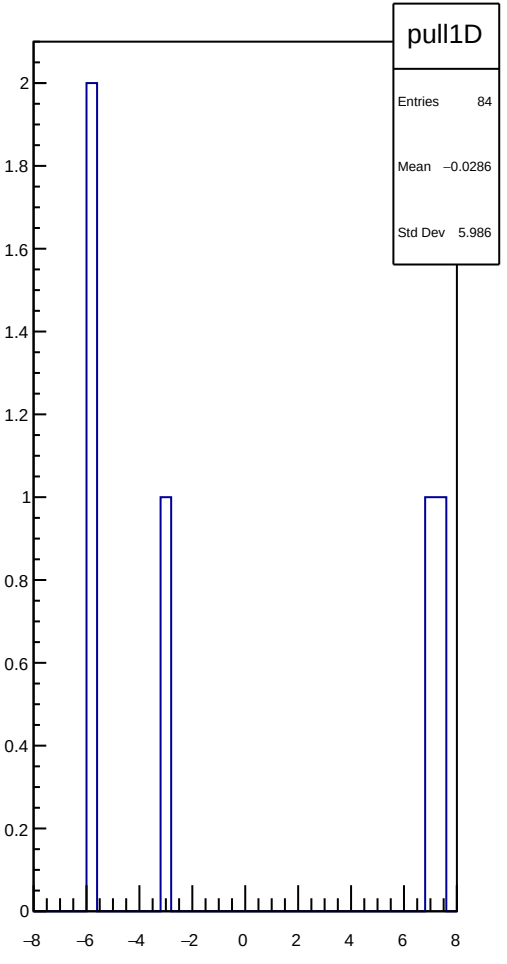

yield_usr_rms vs run
χ² / ndf 2.126e+05 / 83
p0 0.07542 ± 6.329e−05
0.5
0.4
0.3
0.2
0.1

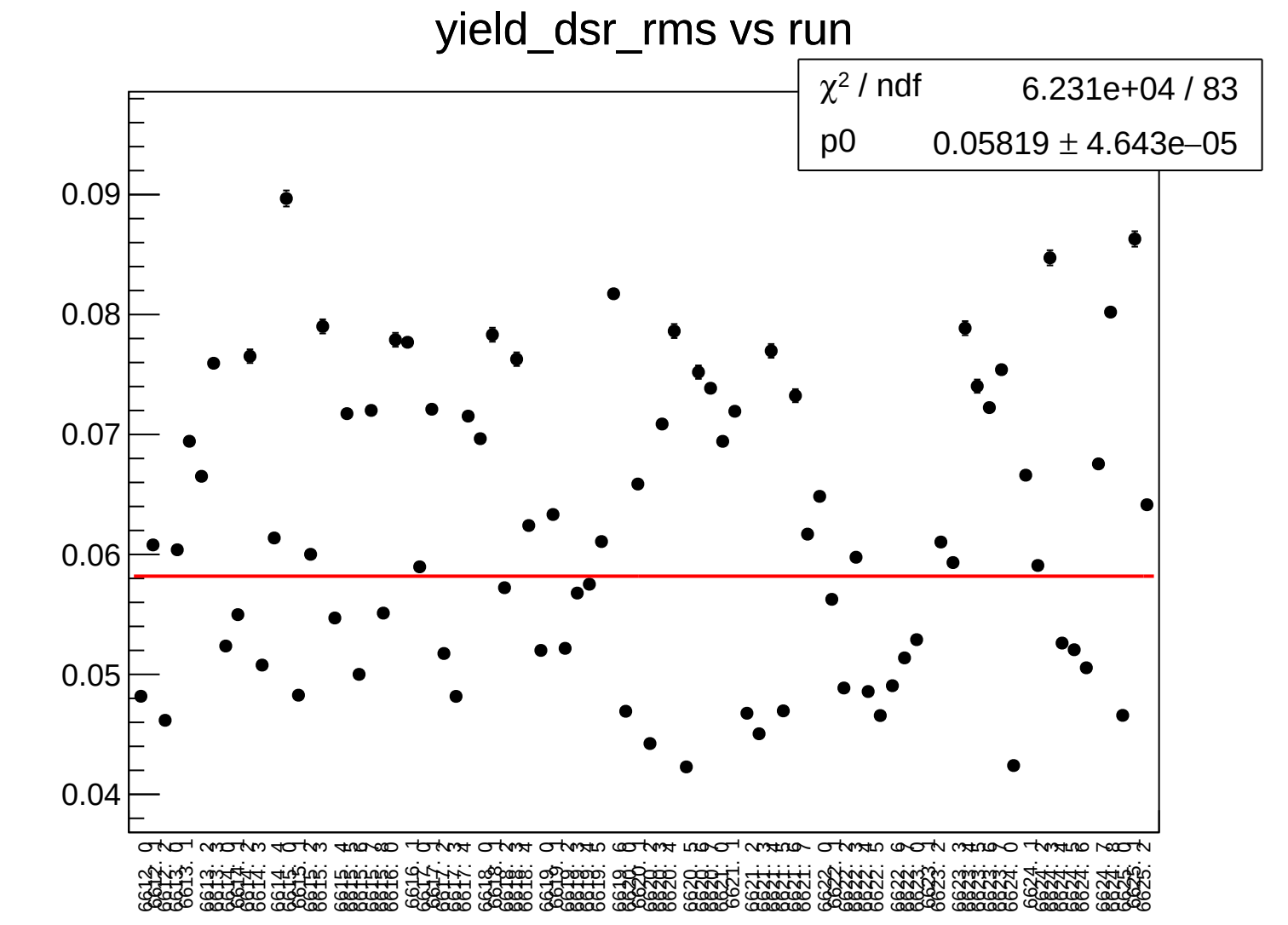

yield_dsl_mean vs run
χ² / ndf 4.797e+05 / 83
p0 −25.58 ± 4.754e−05
−25.5
−25.52
−25.54
−25.56
−25.58
−25.6
−25.62
−25.64
−25.66
pull
Entries 84
Mean −2583
Std Dev 0
200
150
100
50
0
−50
−100
−150

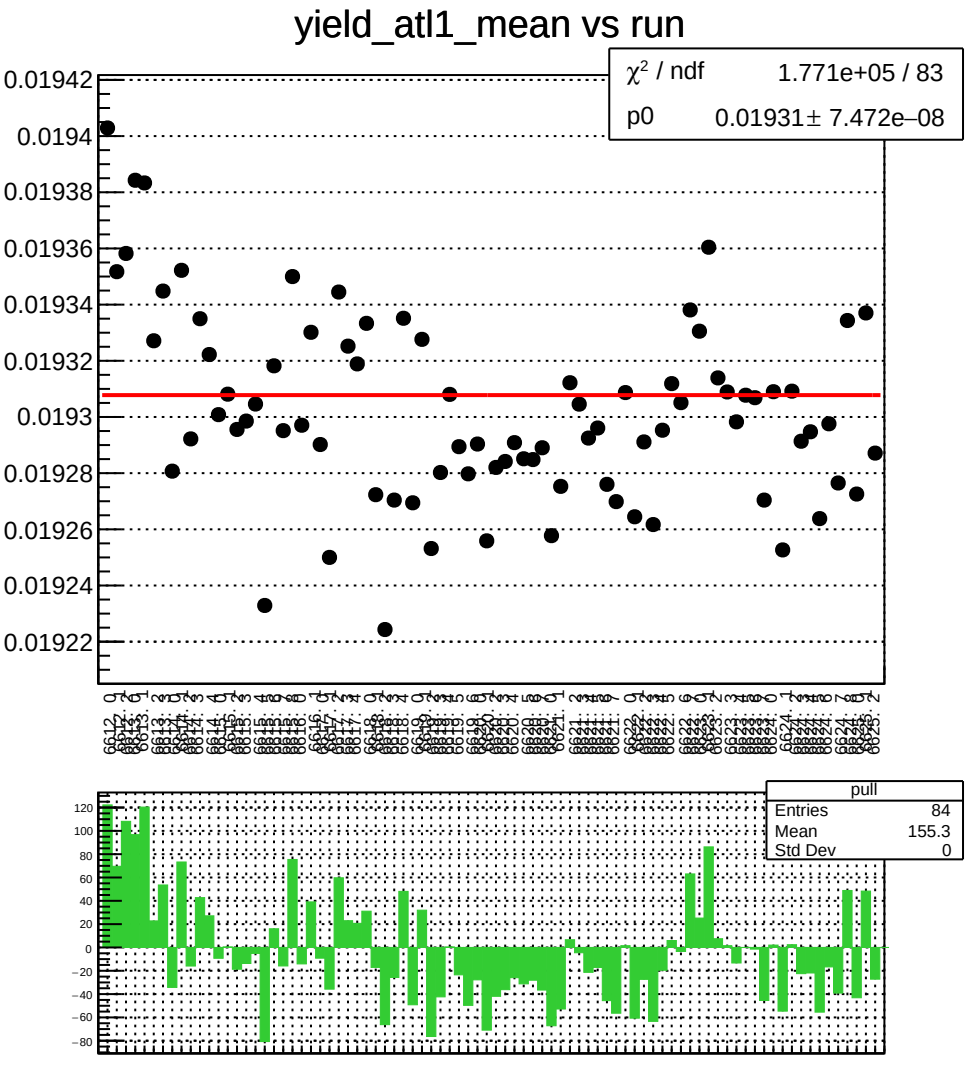

pull1D
Entries 84
Mean −0.8498
Std Dev 3.728
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

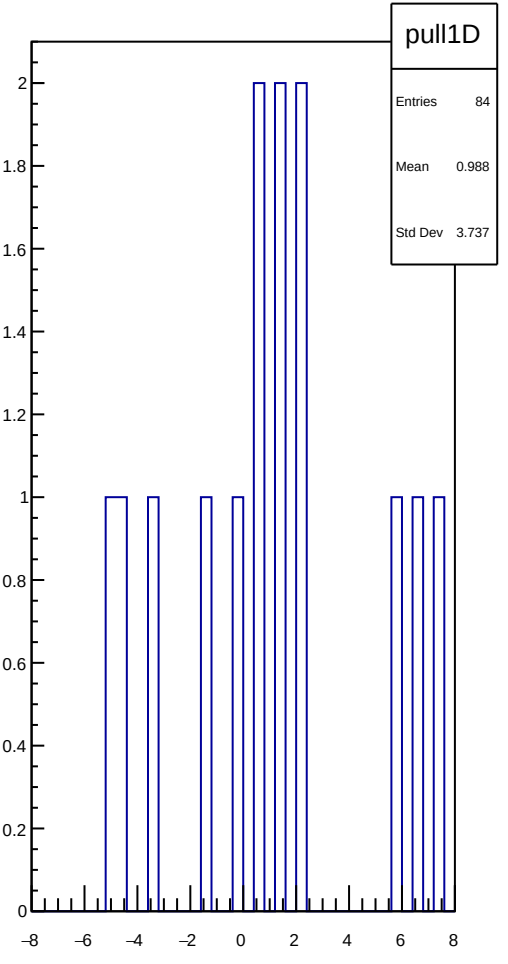

yield_dsl_rms vs run
χ² / ndf 1.833e+04 / 83
p0 0.04271 ± 3.362e–05
0.065
0.06
0.055
0.05
0.045
0.04
0.035

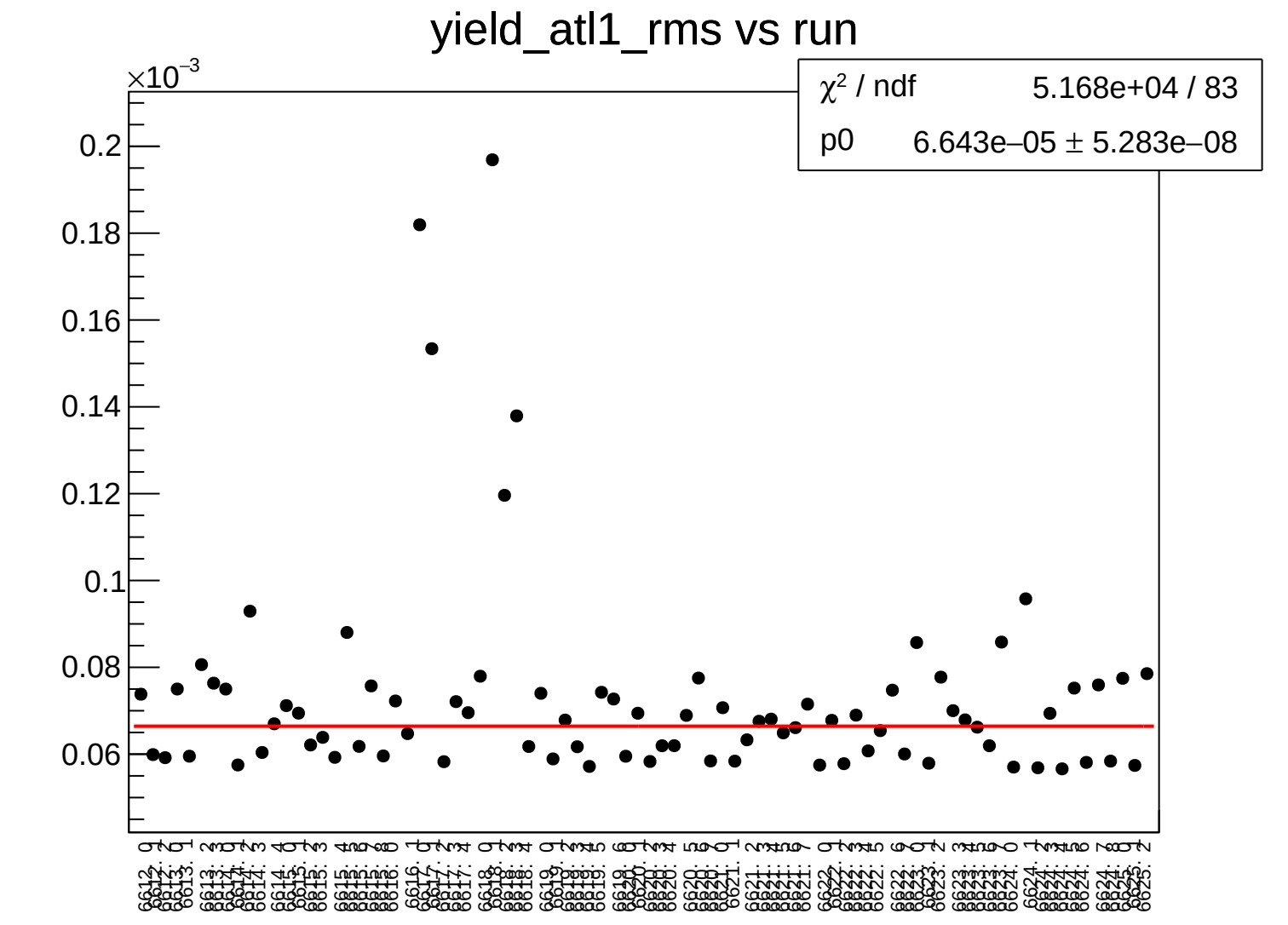

yield_dsr_mean vs run
χ² / ndf 1.08e+06 / 83
p0 −25.26 ± 6.567e−05
−25.1
−25.15
−25.2
−25.25
−25.3
−25.35
−25.4
pull
Entries 84
Mean 381.8
Std Dev 0
200
100
0
−100
−200
−300

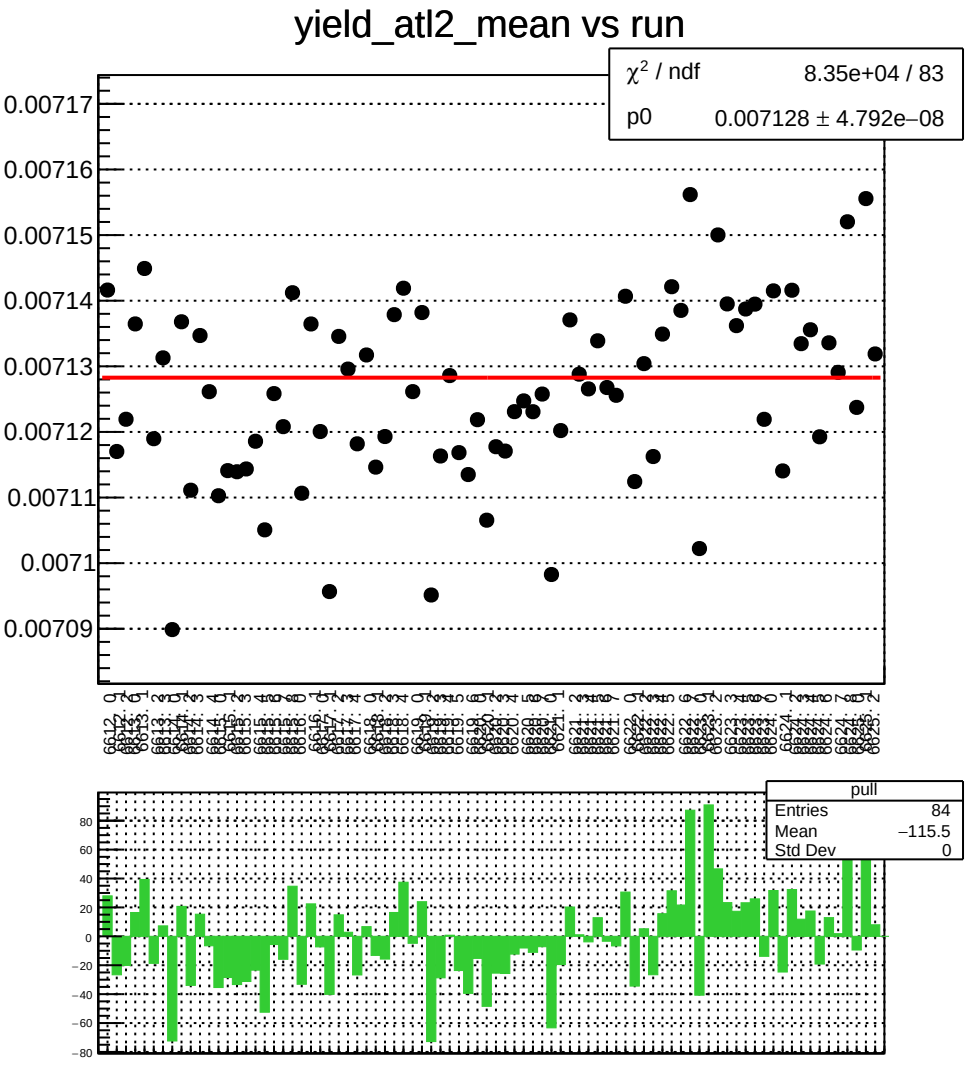

pull1D
Entries 84
Mean −0.0286
Std Dev 5.986
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

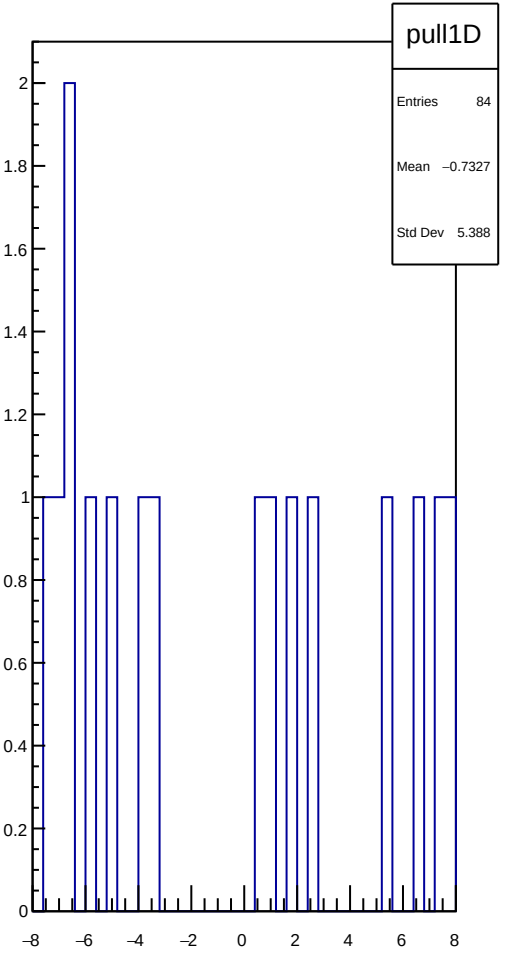

yield_dsr_rms vs run
χ² / ndf 6.231e+04 / 83
p0 0.05819 ± 4.643e−05
0.09
0.08
0.07
0.06
0.05
0.04

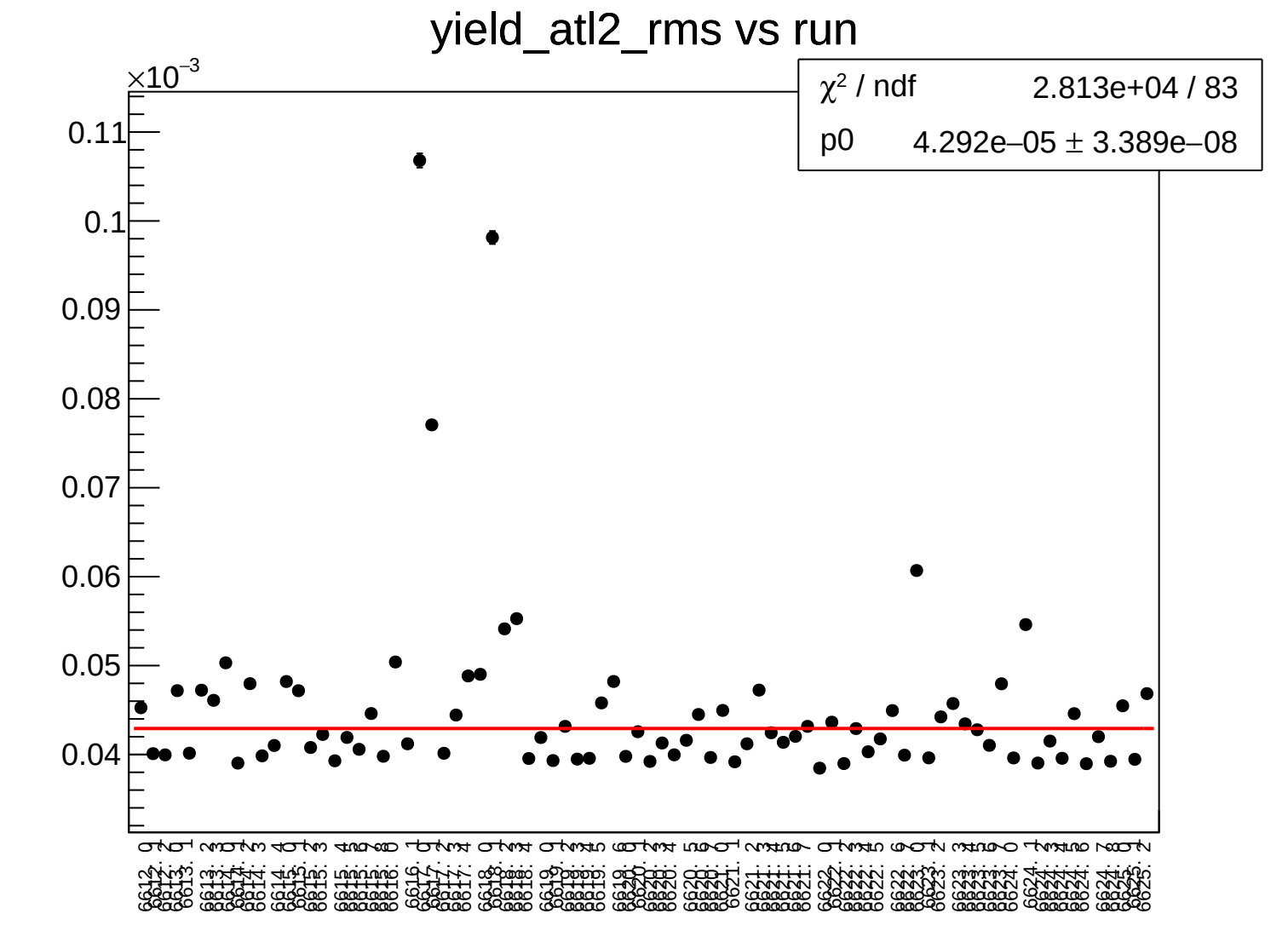

yield_atl1_mean vs run
χ² / ndf 1.771e+05 / 83
p0 0.01931± 7.472e−08
0.01942
0.0194
0.01938
0.01936
0.01934
0.01932
0.0193
0.01928
0.01926
0.01924
0.01922
pull
Entries 84
Mean 155.3
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

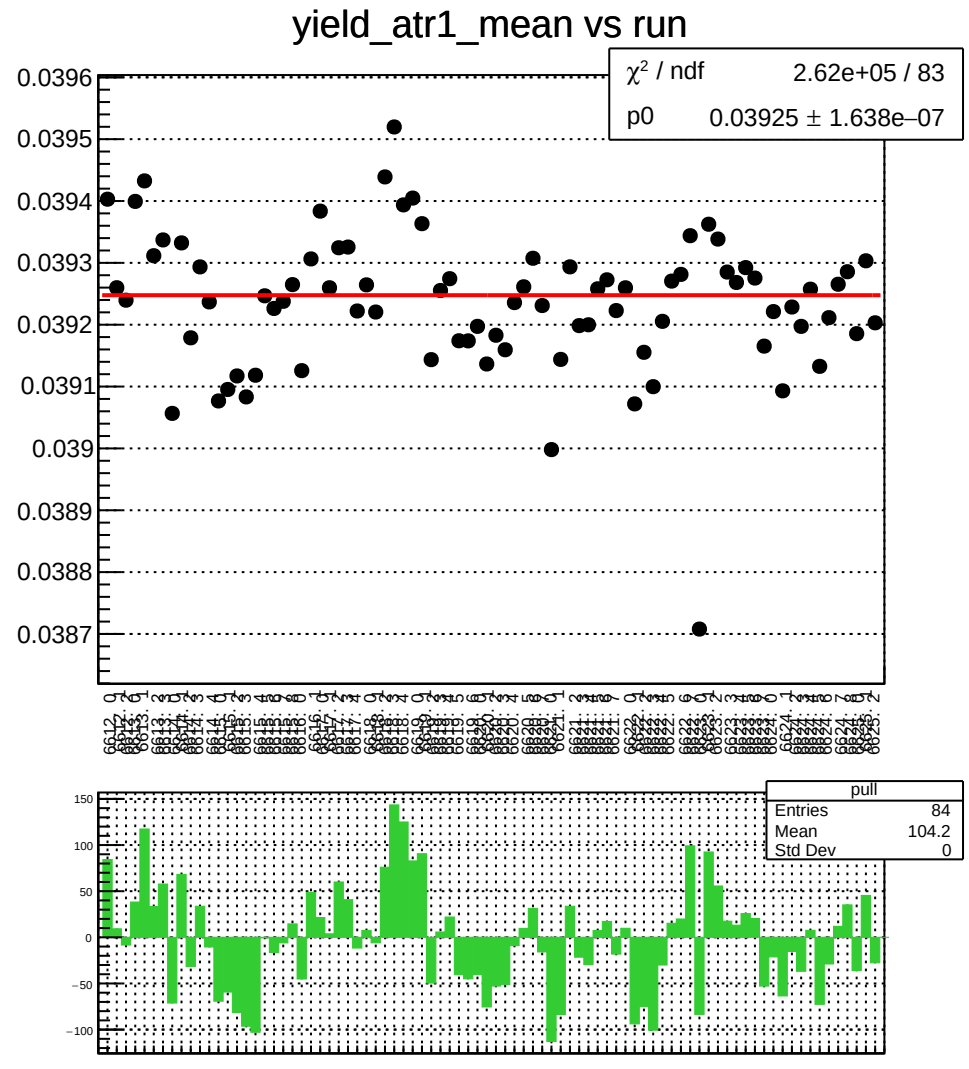

pull1D
Entries 84
Mean 0.988
Std Dev 3.737
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

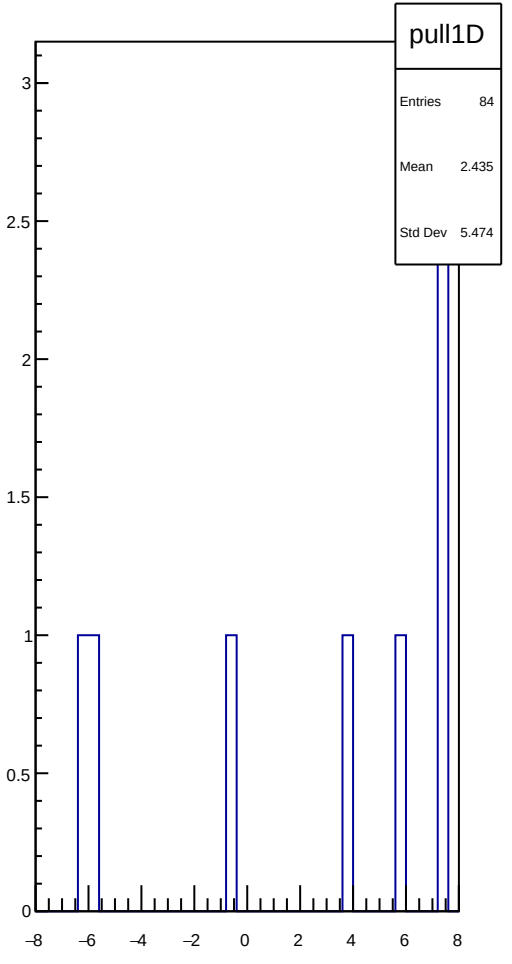

yield_atl1_rms vs run
×10⁻³
χ² / ndf 5.168e+04 / 83
p0 6.643e−05 ± 5.283e−08
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

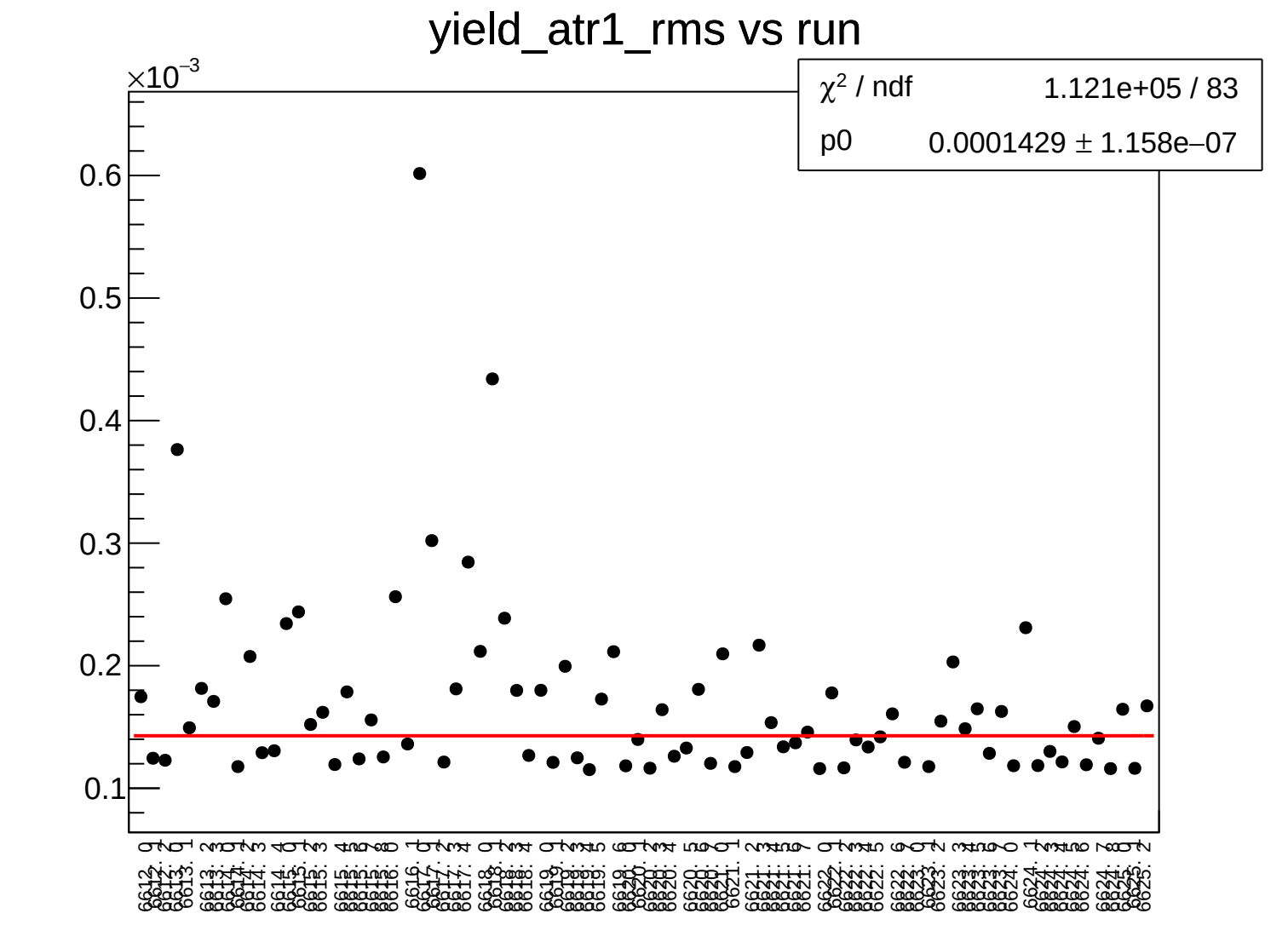

yield_atl2_mean vs run
χ² / ndf 8.35e+04 / 83
p0 0.007128 ± 4.792e−08
0.00717
0.00716
0.00715
0.00714
0.00713
0.00712
0.00711
0.0071
0.00709
pull
Entries 84
Mean −115.5
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

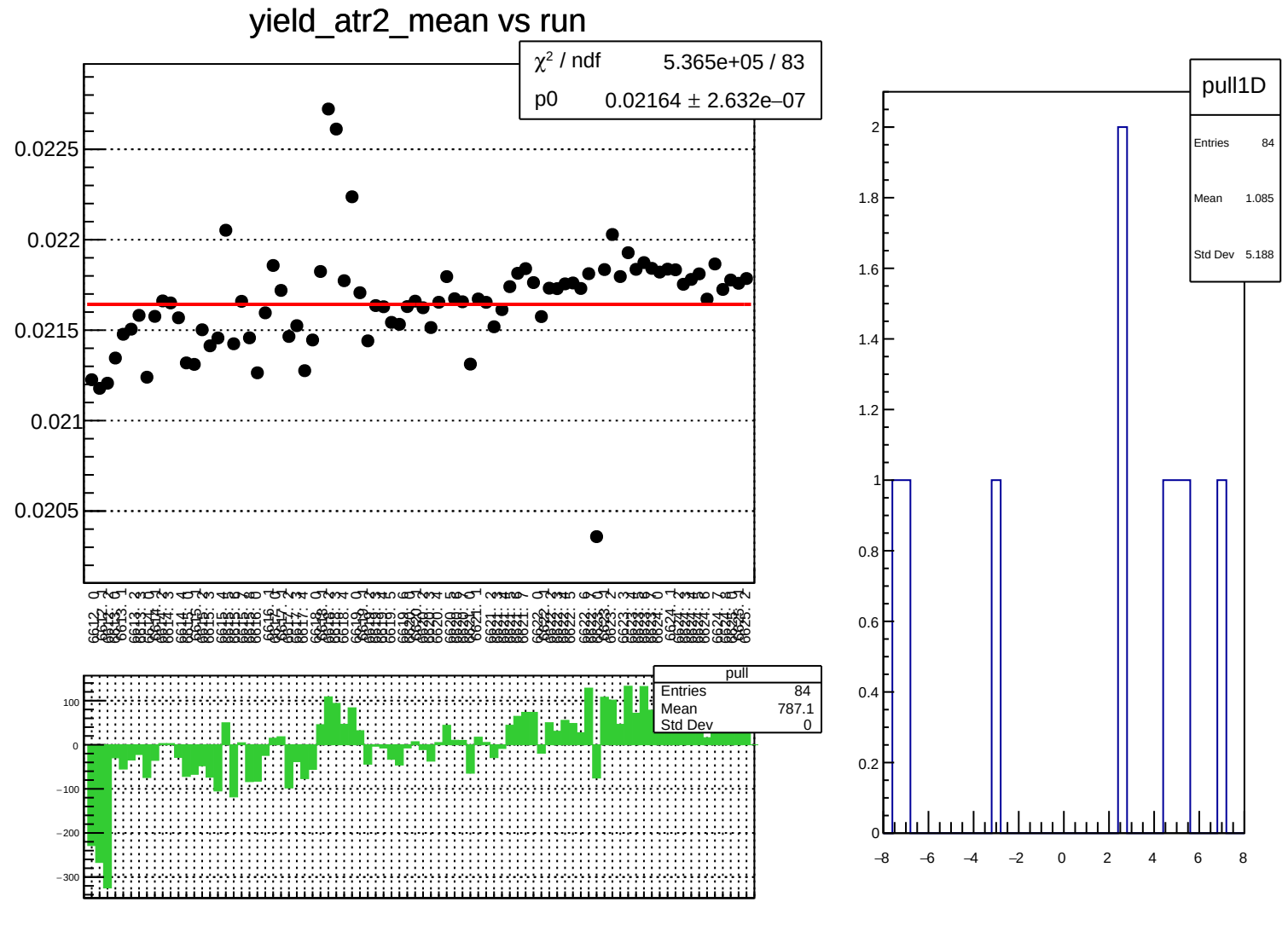

pull1D
Entries 84
Mean −0.7327
Std Dev 5.388
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

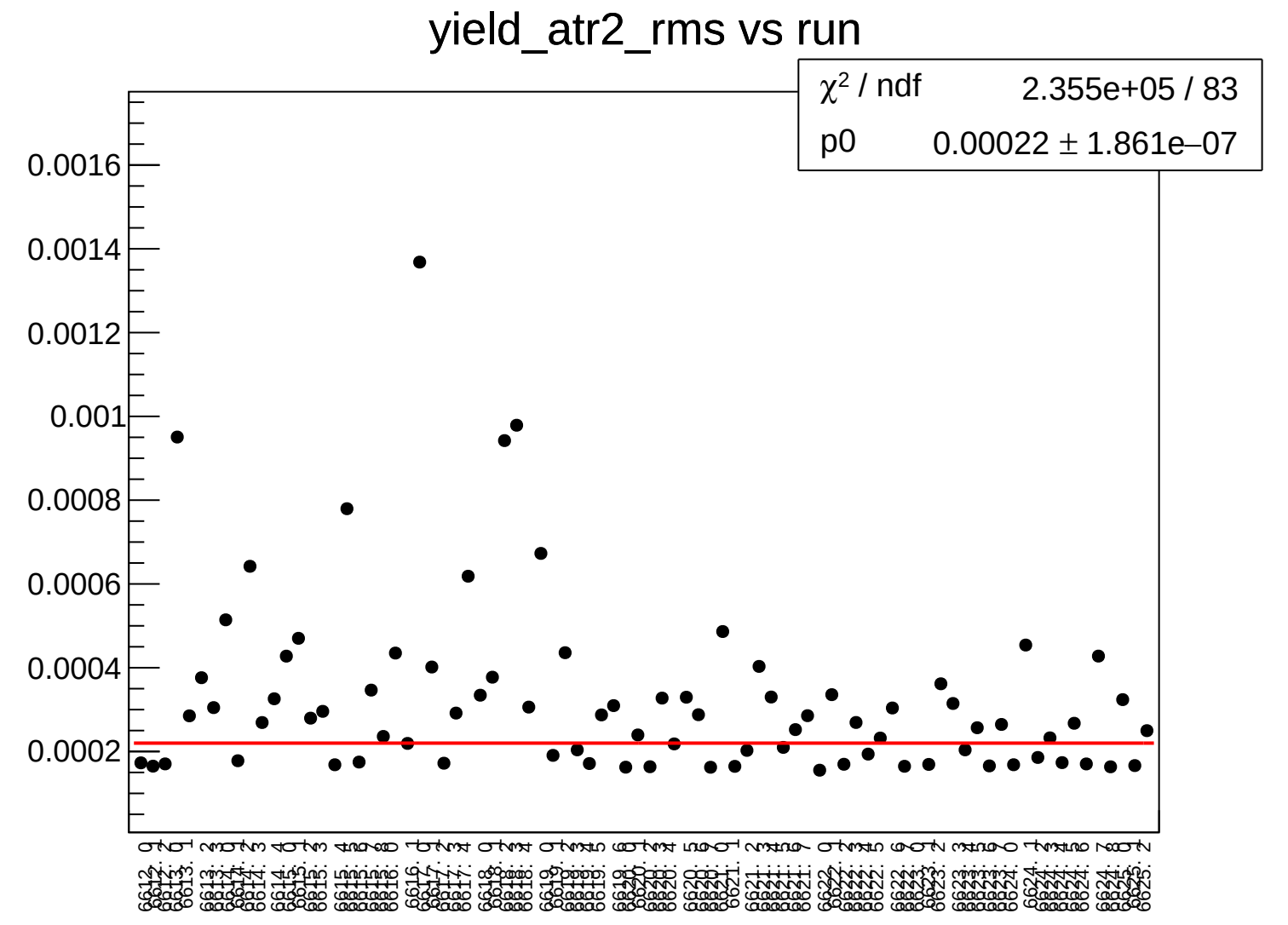

yield_atl2_rms vs run
×10⁻³
χ² / ndf 2.813e+04 / 83
p0 4.292e−05 ± 3.389e−08
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

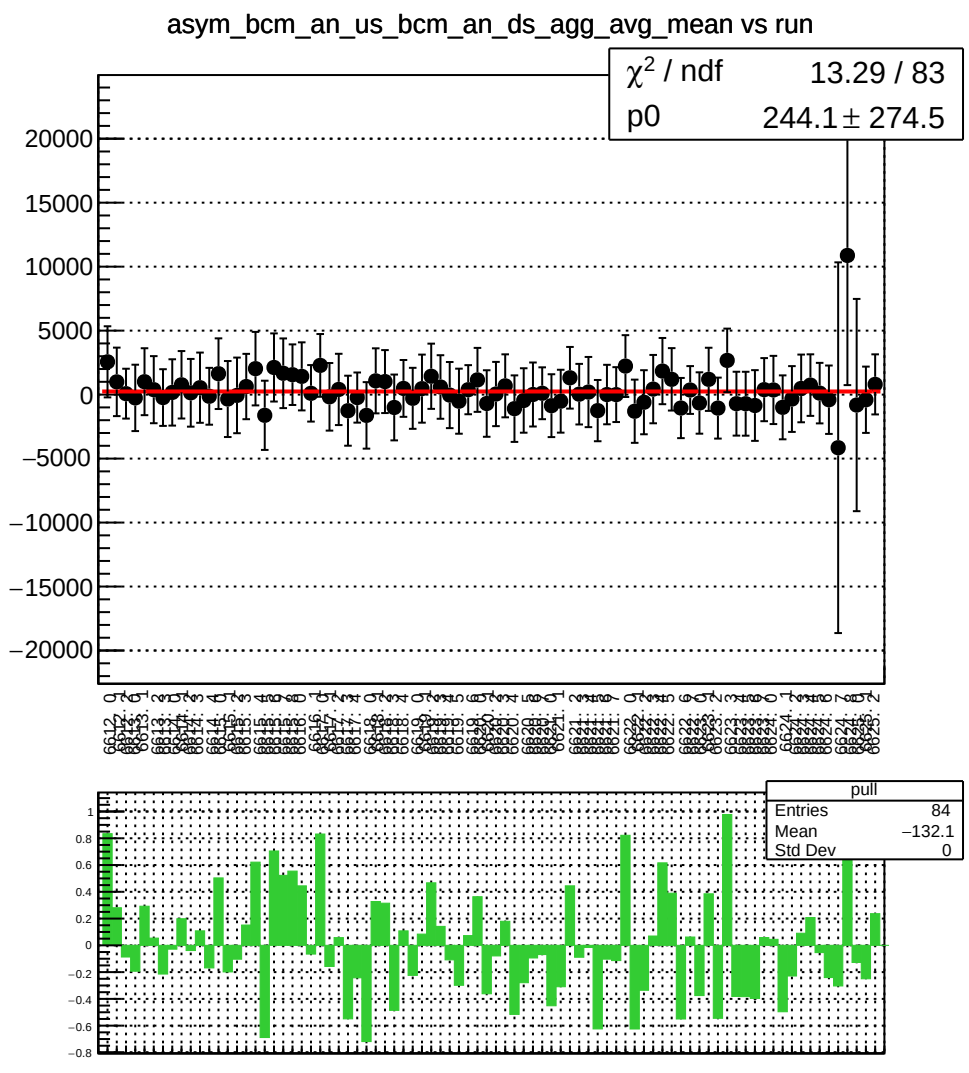

yield_atr1_mean vs run
χ² / ndf 2.62e+05 / 83
p0 0.03925 ± 1.638e−07
0.0396
0.0395
0.0394
0.0393
0.0392
0.0391
0.039
0.0389
0.0388
0.0387
pull
Entries 84
Mean 104.2
Std Dev 0
150
100
50
0
−50
−100

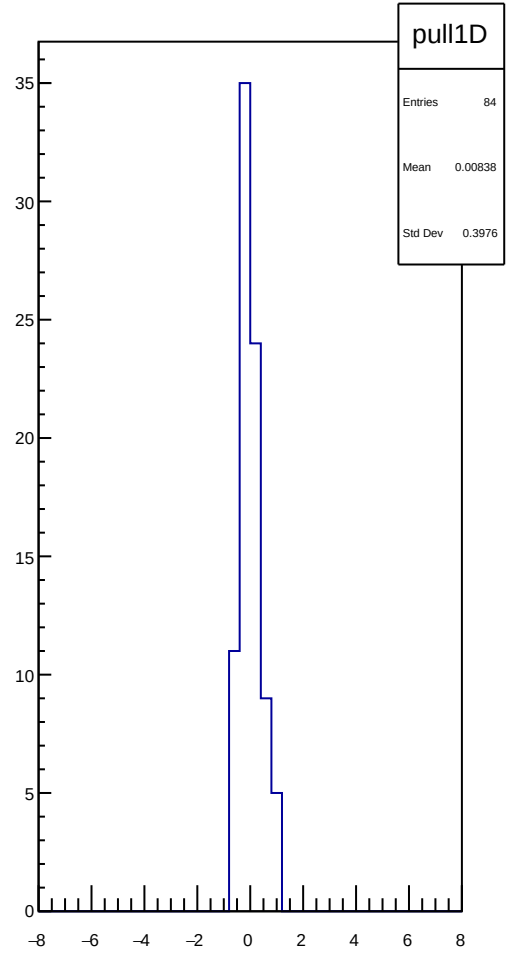

pull1D
Entries 84
Mean 2.435
Std Dev 5.474
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

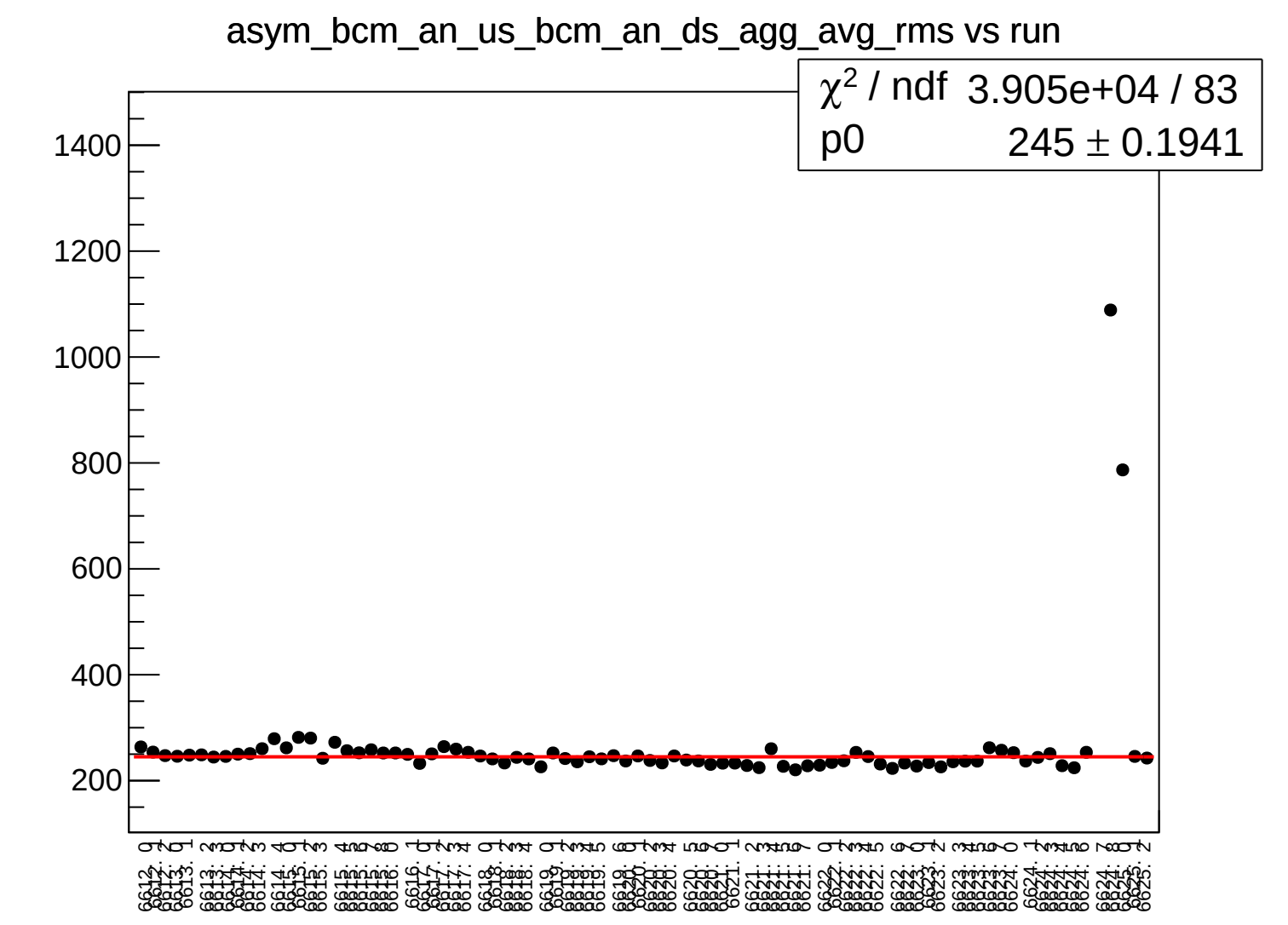

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.121e+05 / 83
p0 0.0001429 ± 1.158e−07
0.6
0.5
0.4
0.3
0.2
0.1

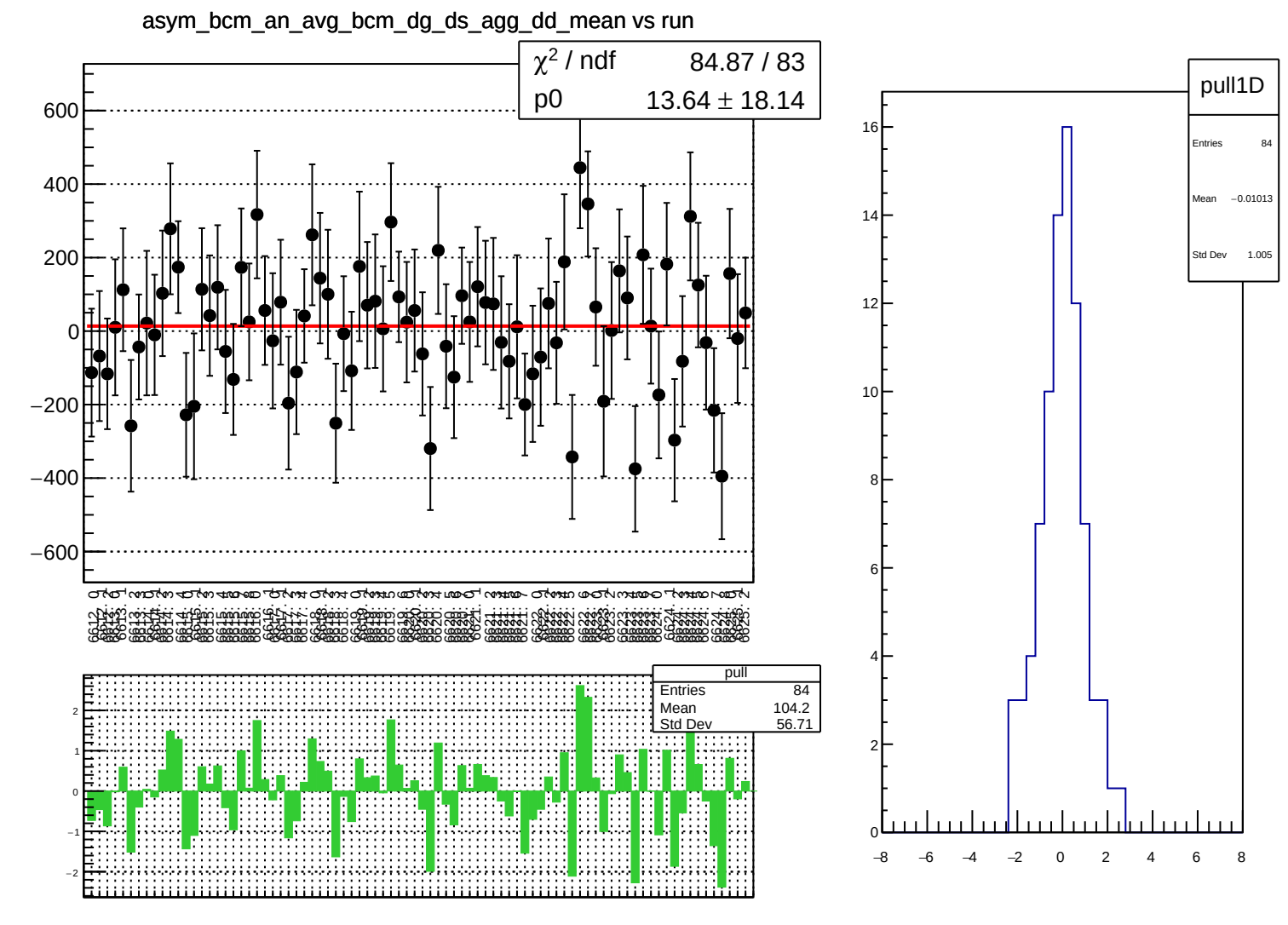

yield_atr2_mean vs run
χ² / ndf 5.365e+05 / 83
p0 0.02164 ± 2.632e−07
0.0225
0.022
0.0215
0.021
0.0205
pull
Entries 84
Mean 787.1
Std Dev 0
100
0
−100
−200
−300
pull1D
Entries 84
Mean 1.085
Std Dev 5.188
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

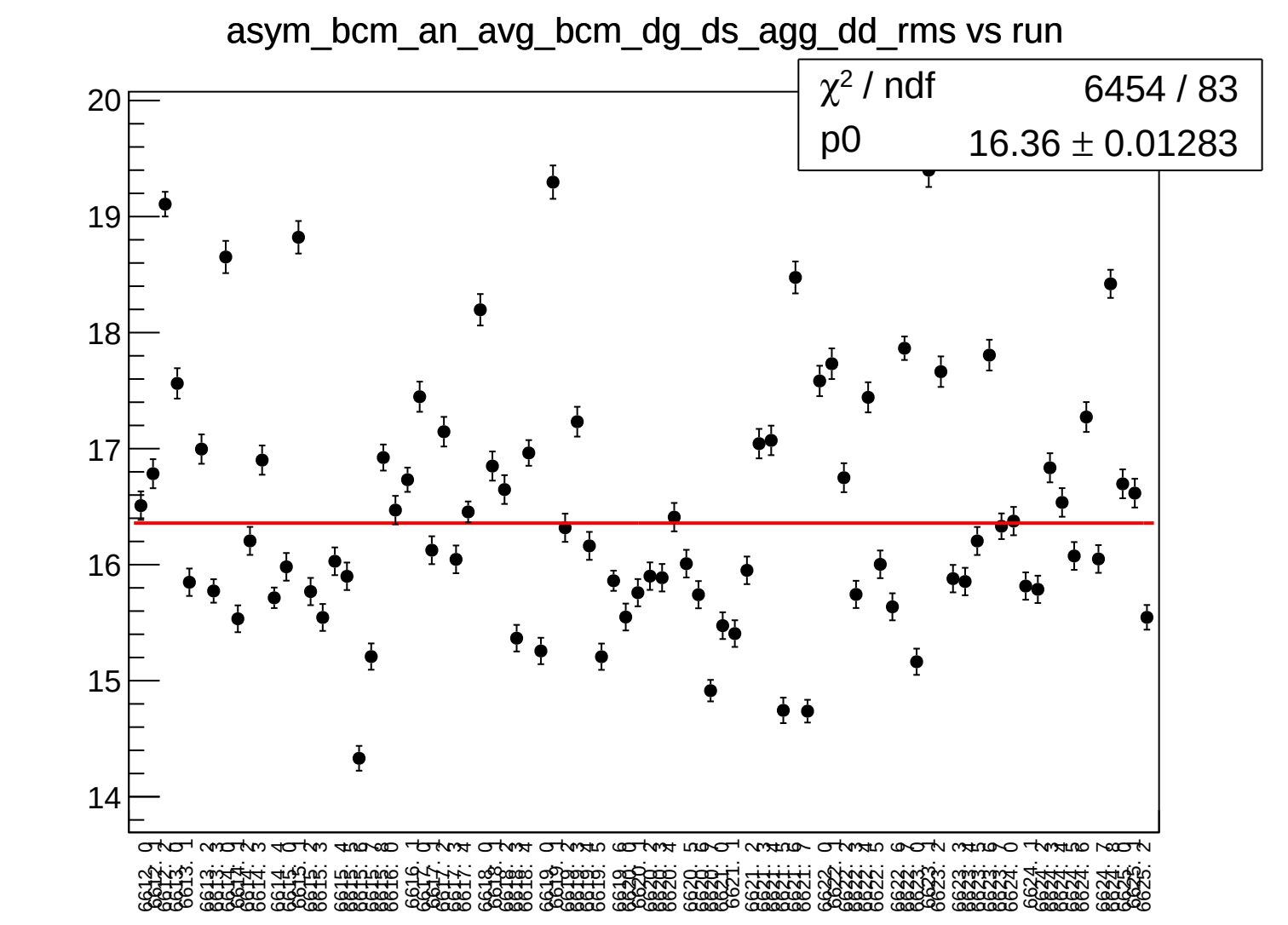

yield_atr2_rms vs run
χ² / ndf 2.355e+05 / 83
p0 0.00022 ± 1.861e–07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

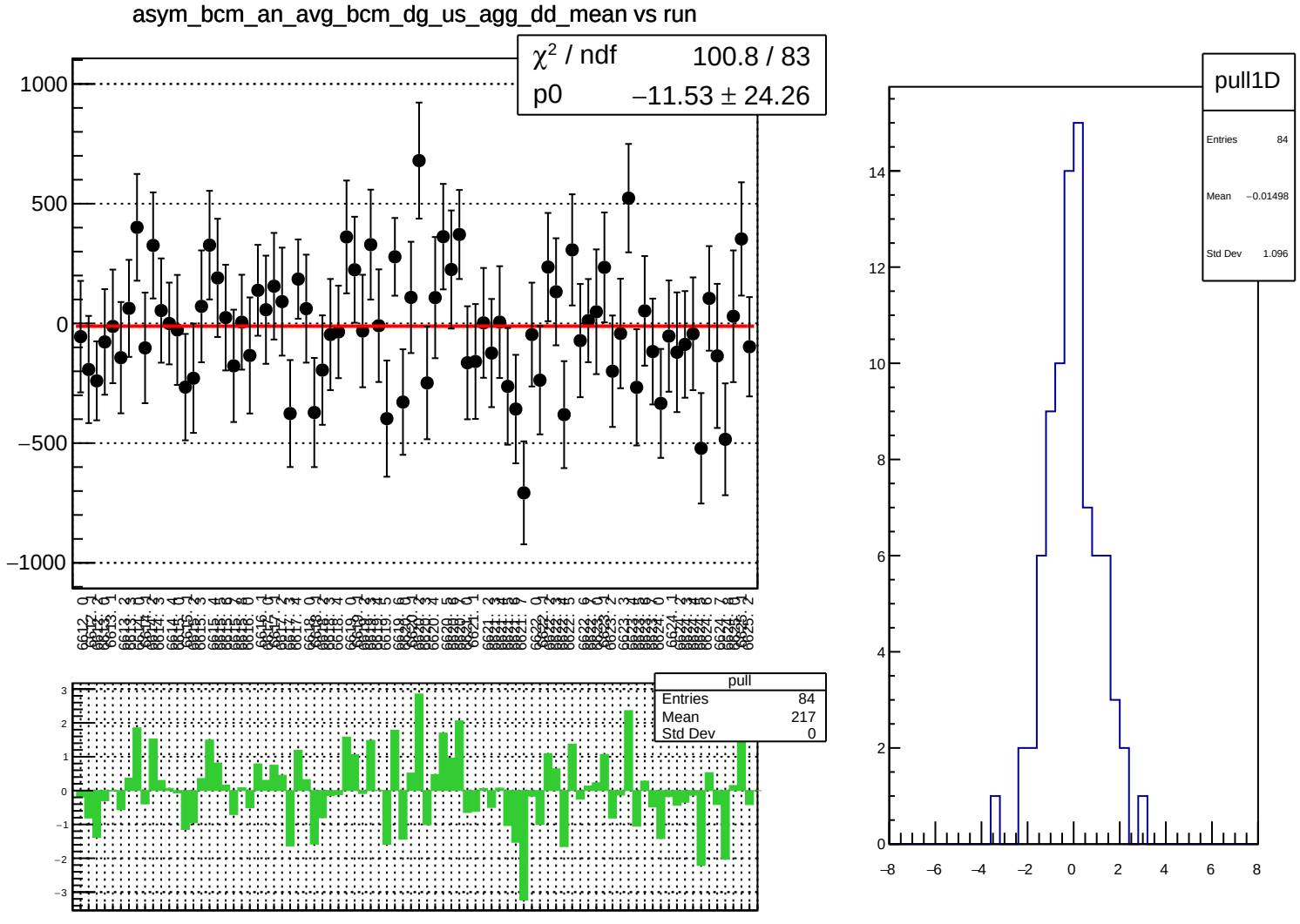

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.29 / 83
p0 244.1 ± 274.5
pull
Entries 84
Mean −132.1
Std Dev 0

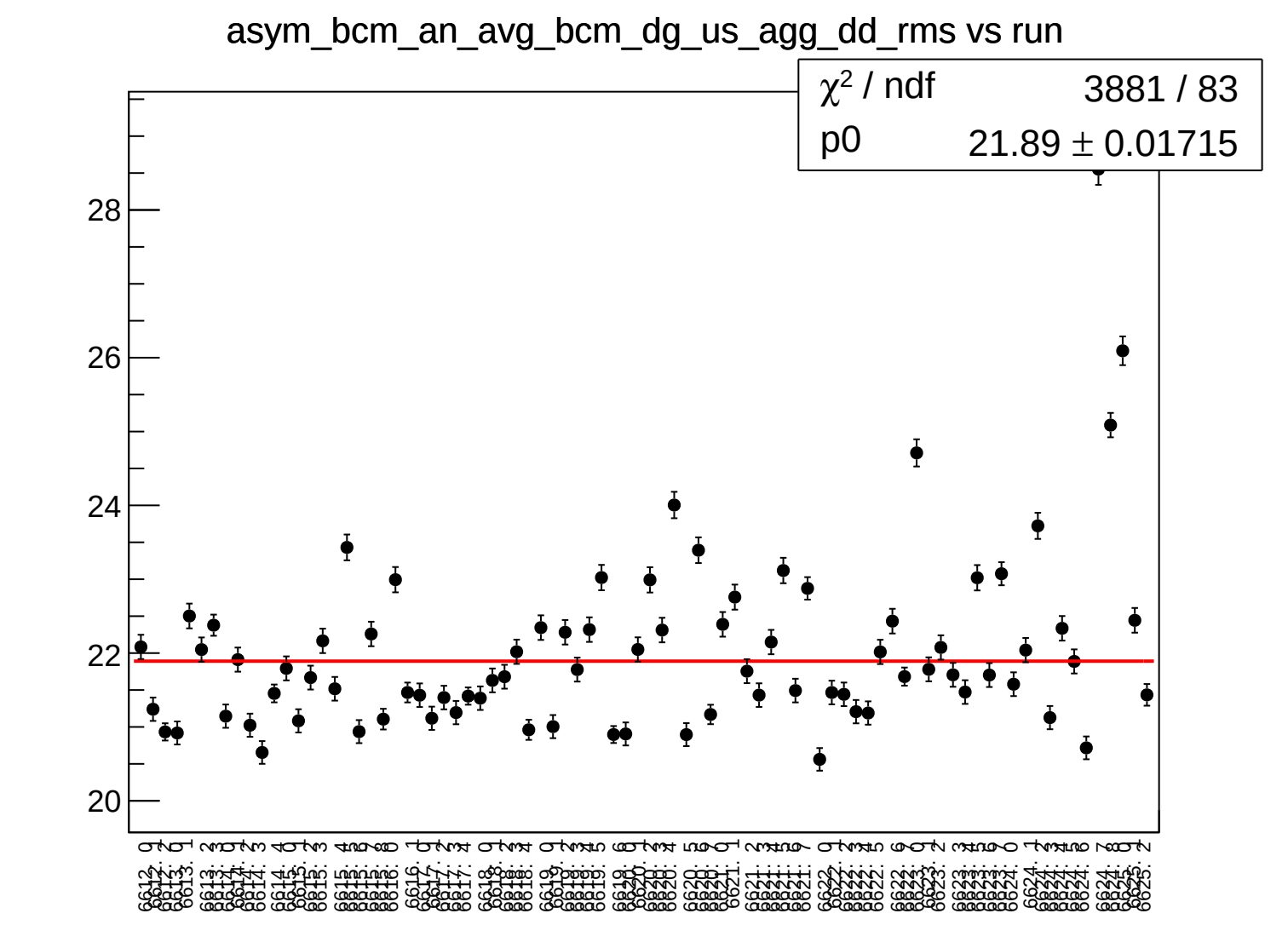

pull1D
Entries 84
Mean 0.00838
Std Dev 0.3976

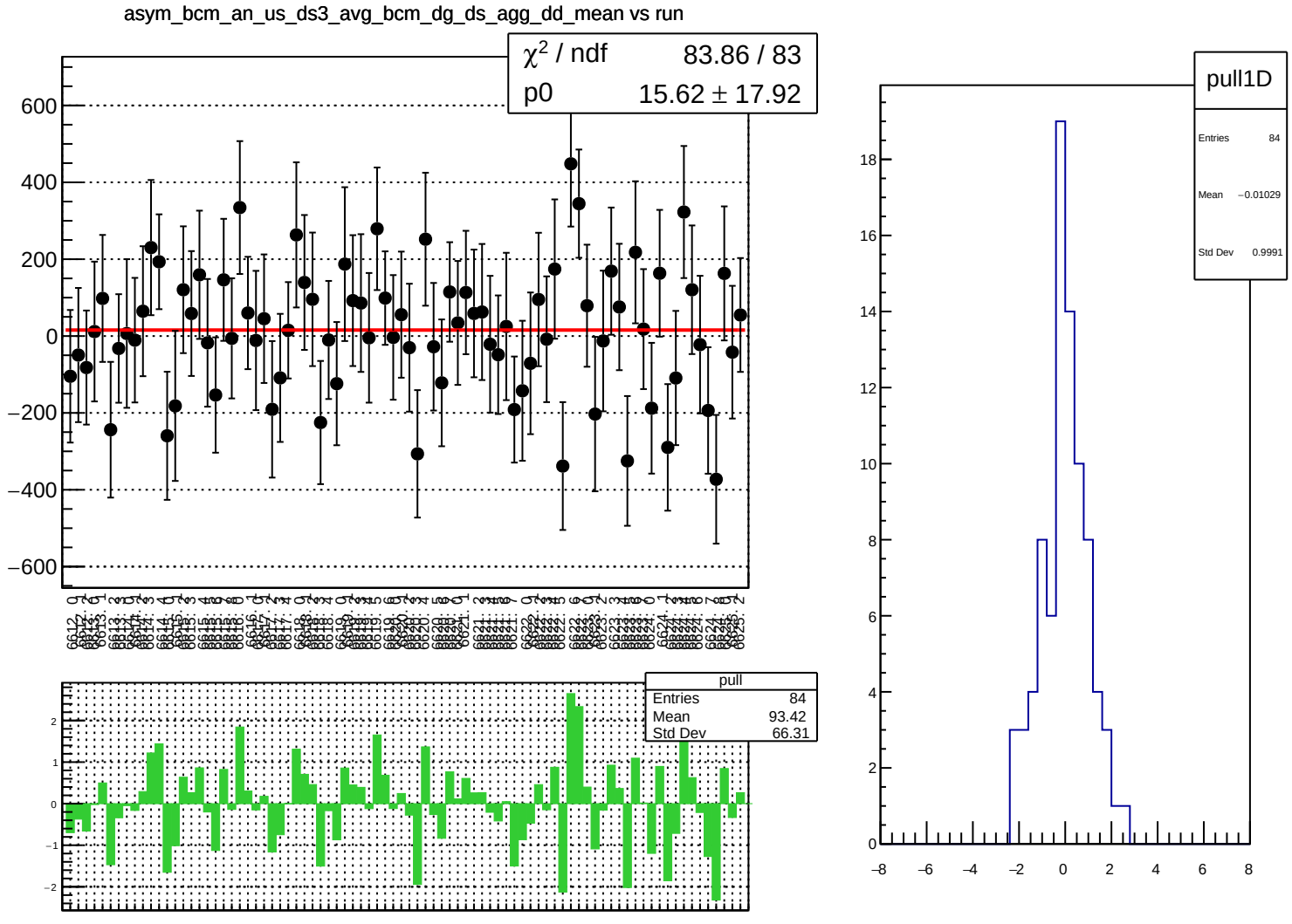

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.905e+04 / 83
p0 245 ± 0.1941
1400
1200
1000
800
600
400
200

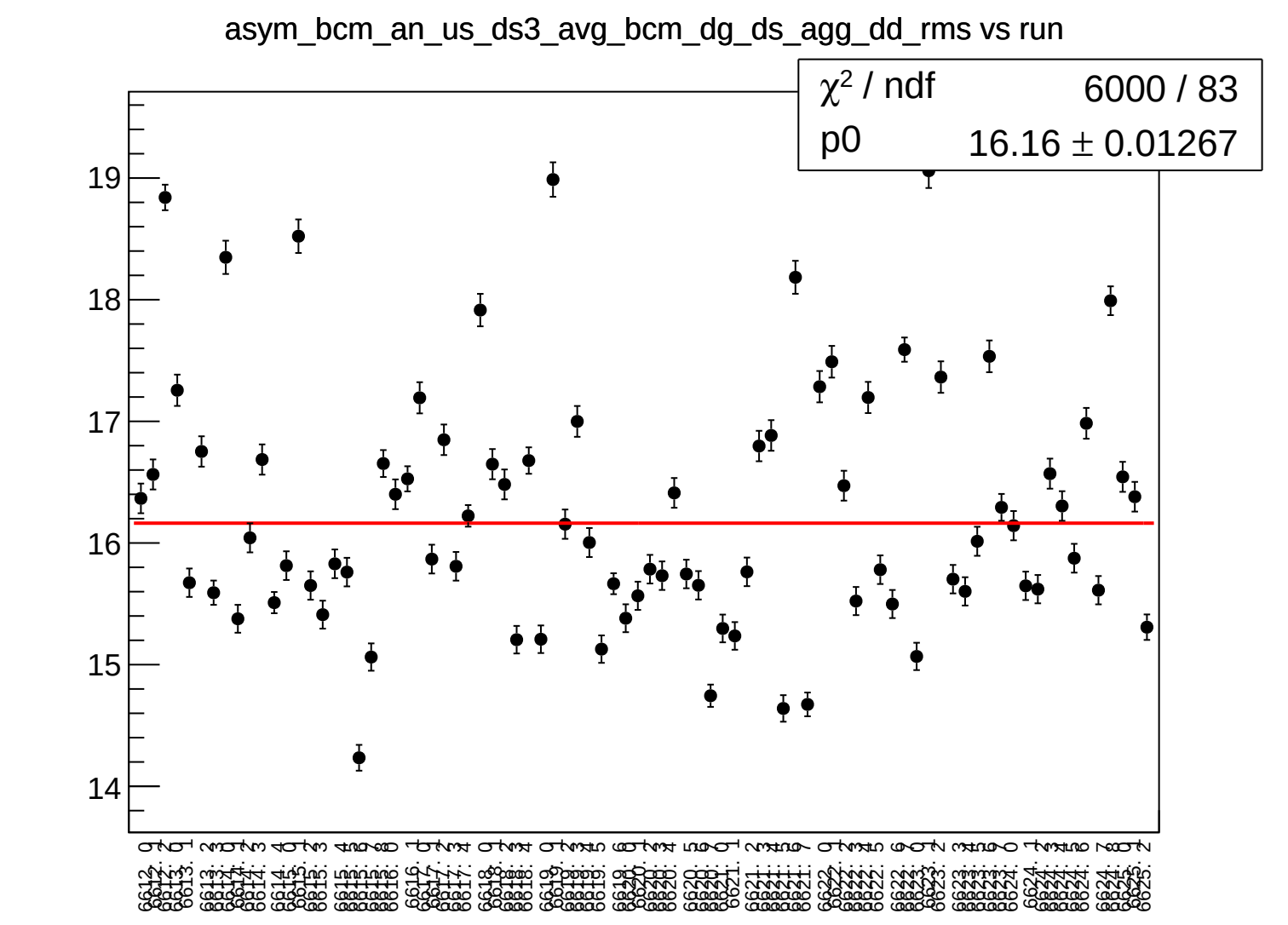

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 84.87 / 83
p0 13.64 ± 18.14
pull
Entries 84
Mean 104.2
Std Dev 56.71
pull1D
Entries 84
Mean −0.01013
Std Dev 1.005

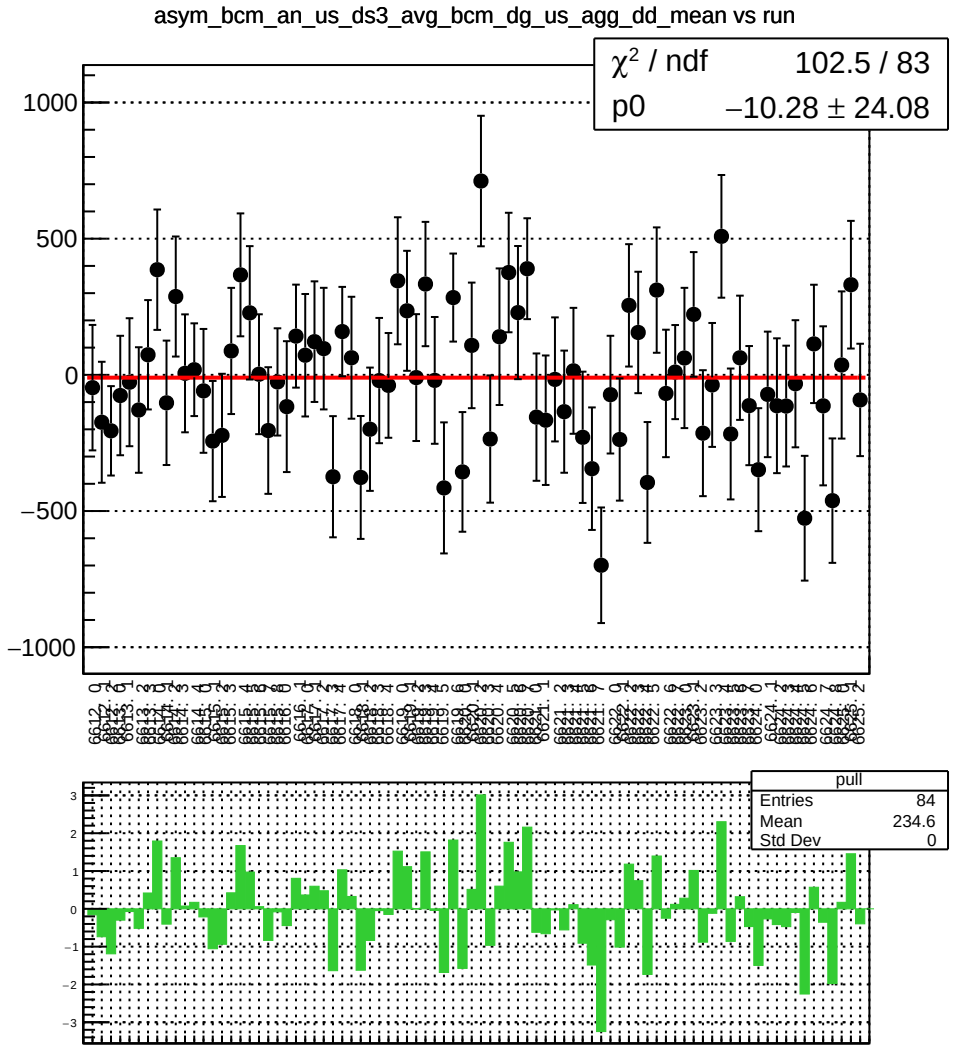

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 6454 / 83
p0 16.36 ± 0.01283
20
19
18
17
16
15
14

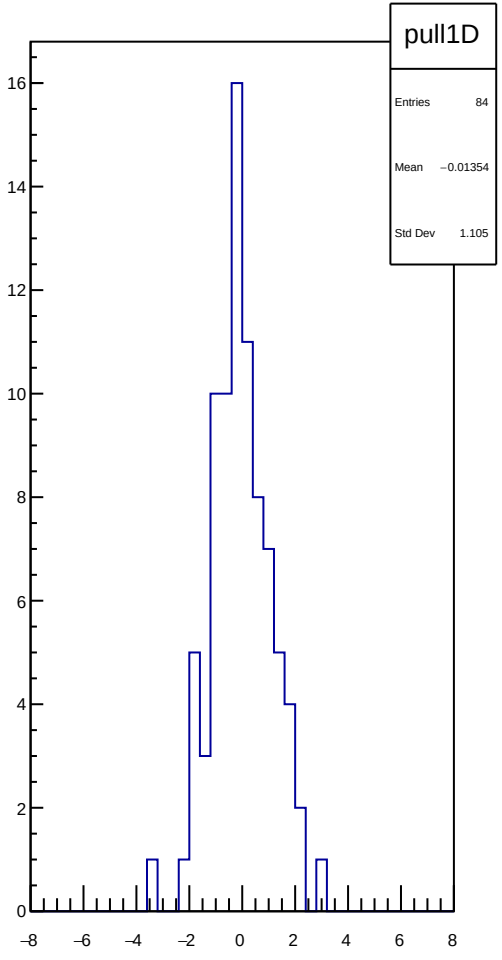

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 100.8 / 83
p0 −11.53 ± 24.26
1000
500
0
−500
−1000
pull
Entries 84
Mean 217
Std Dev 0
pull1D
Entries 84
Mean −0.01498
Std Dev 1.096

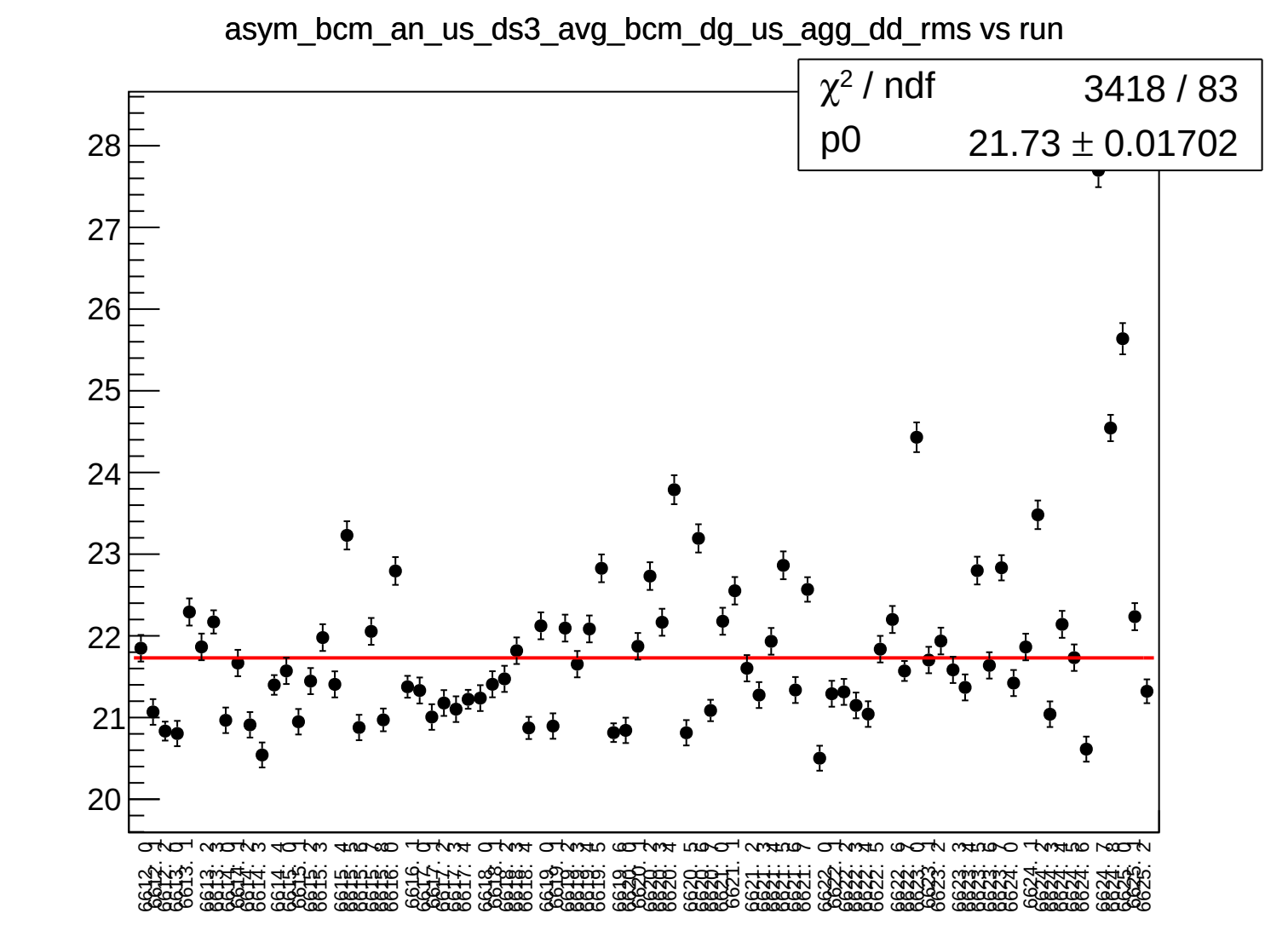

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3881 / 83
p0 21.89 ± 0.01715
28
26
24
22
20

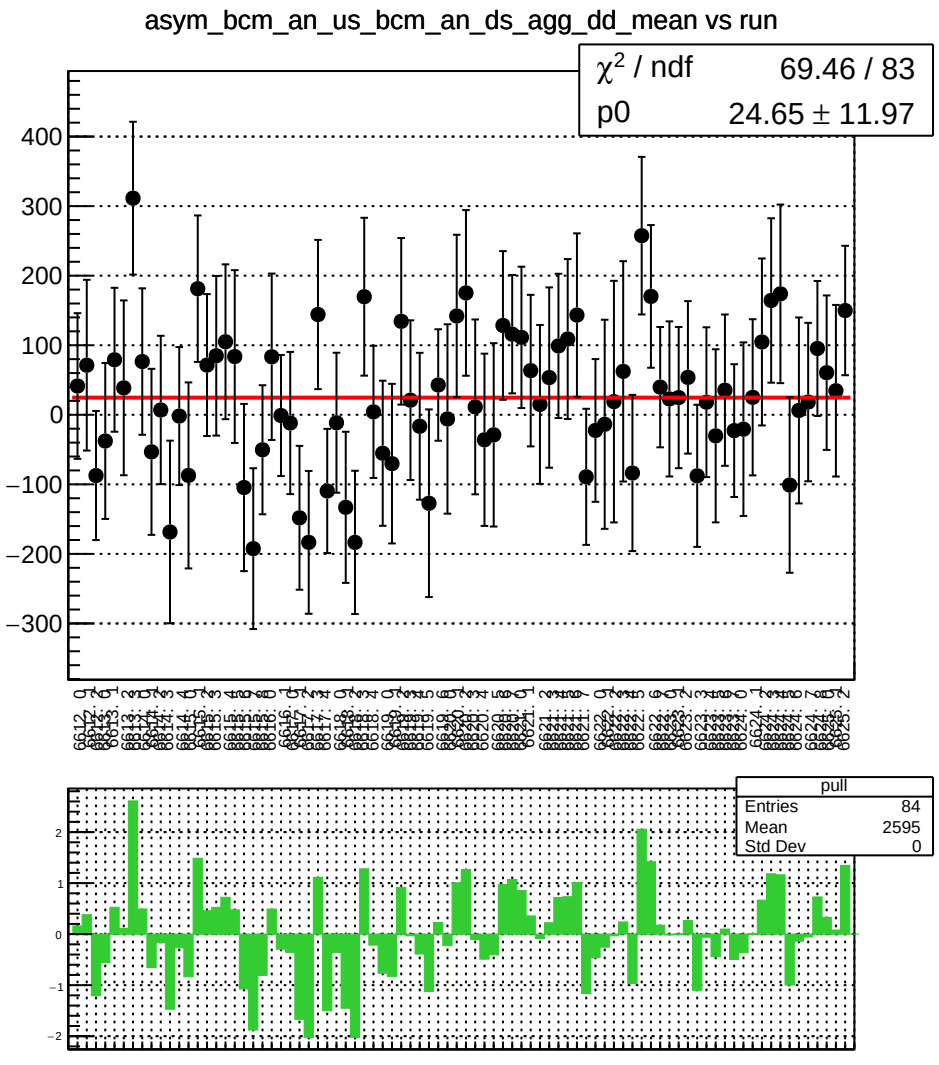

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 83.86 / 83
p0 15.62 ± 17.92
pull
Entries 84
Mean 93.42
Std Dev 66.31
pull1D
Entries 84
Mean −0.01029
Std Dev 0.9991

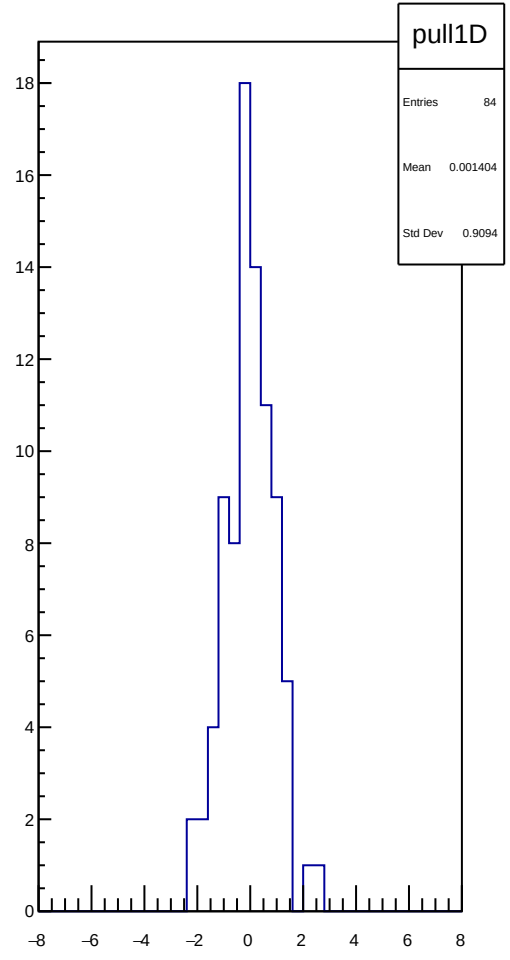

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 6000 / 83
p0 16.16 ± 0.01267
19
18
17
16
15
14

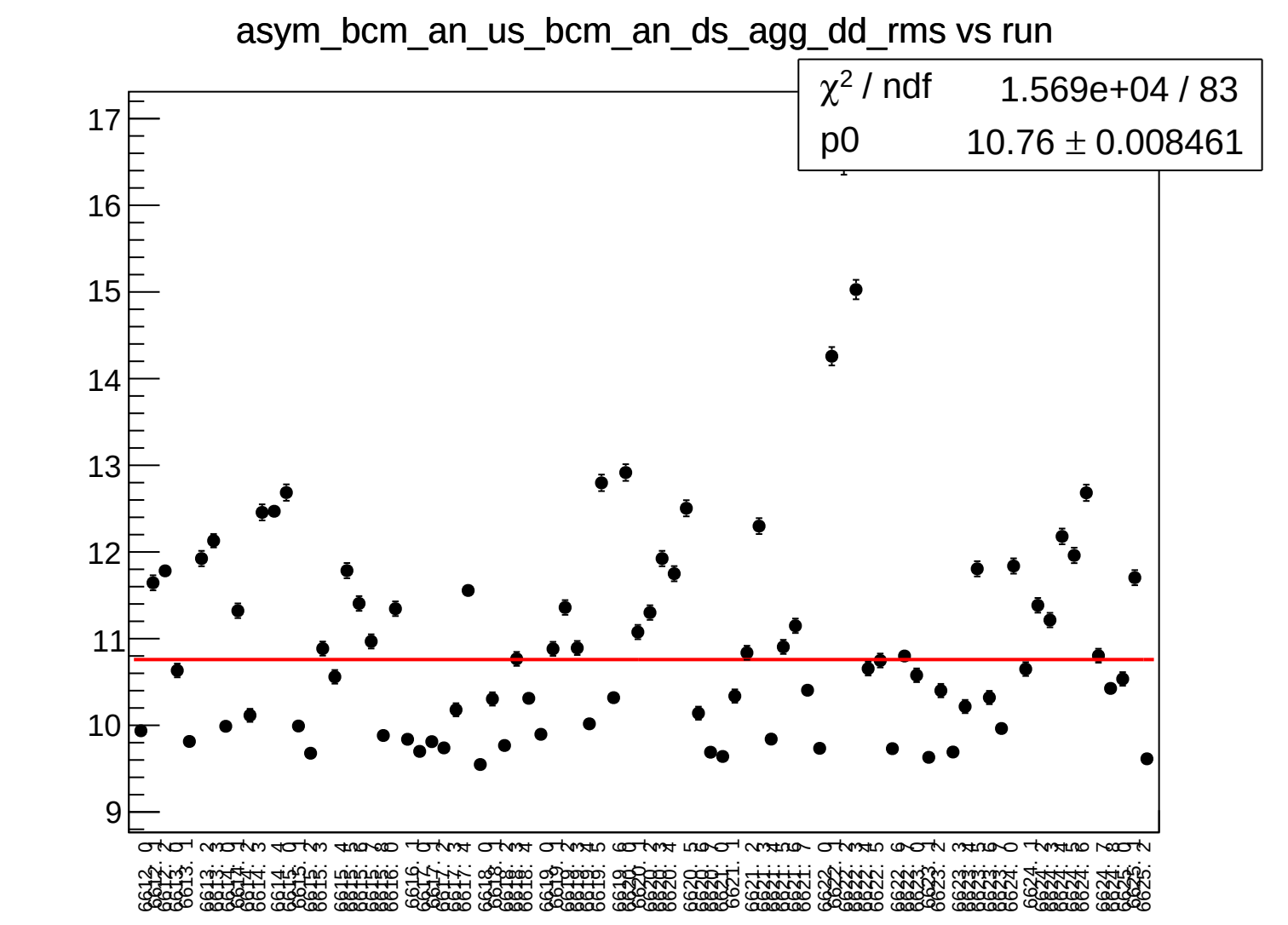

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 102.5 / 83
p0 −10.28 ± 24.08
1000
500
0
−500
−1000
pull
Entries 84
Mean 234.6
Std Dev 0
3
2
1
0
−1
−2
−3

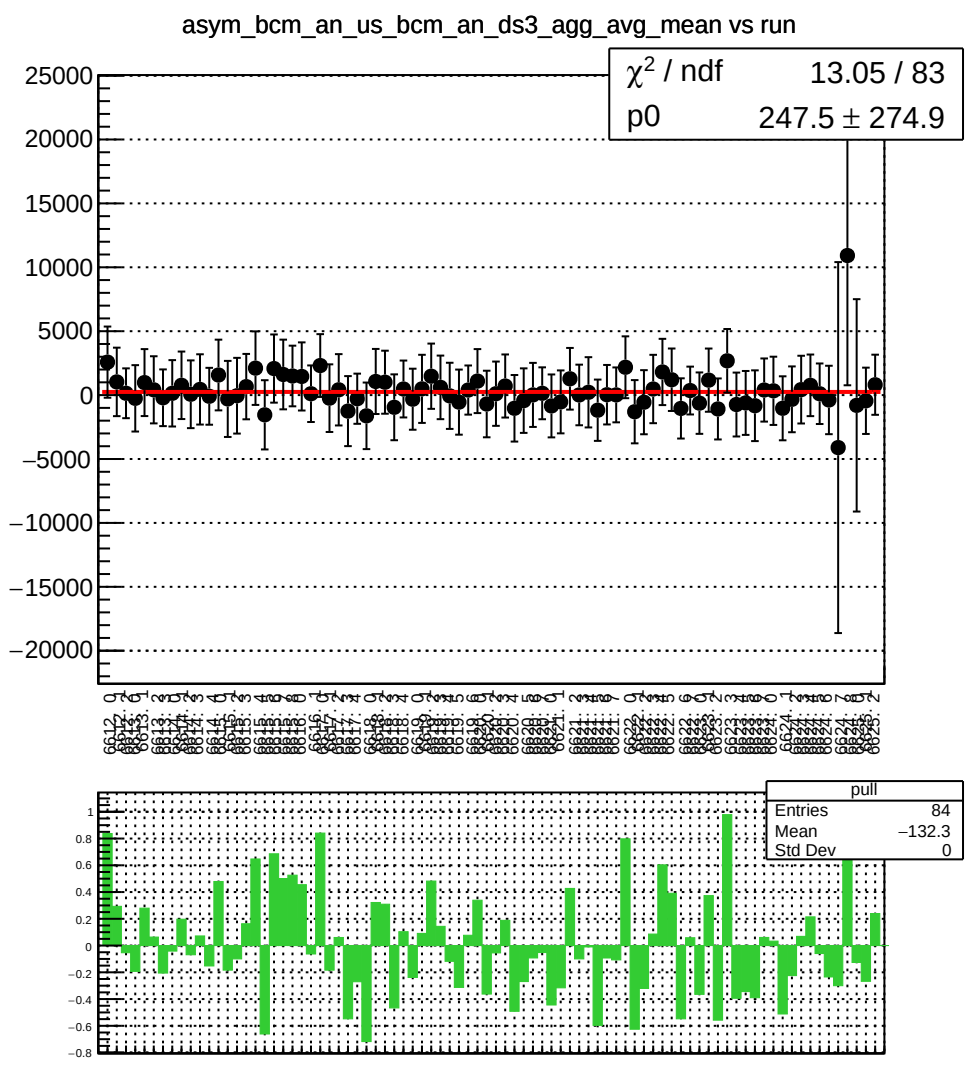

pull1D
Entries 84
Mean −0.01354
Std Dev 1.105
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

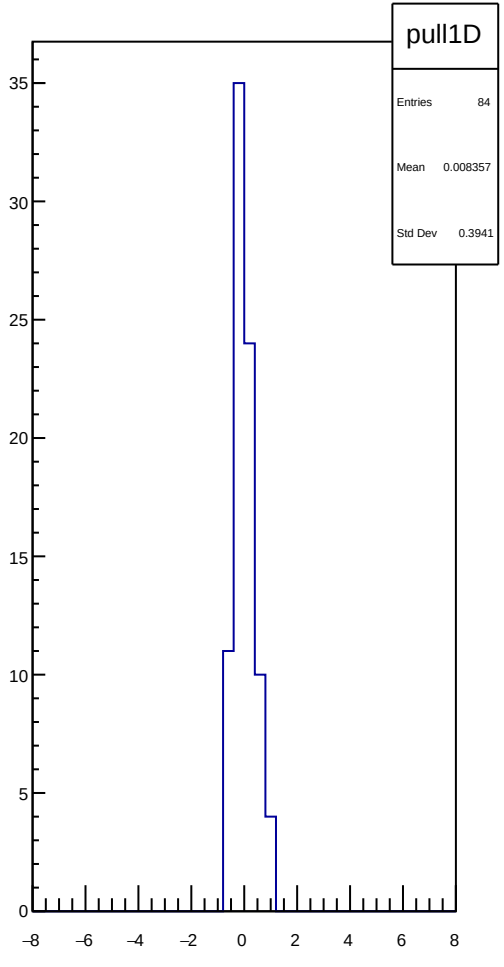

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3418 / 83
p0 21.73 ± 0.01702
28
27
26
25
24
23
22
21
20

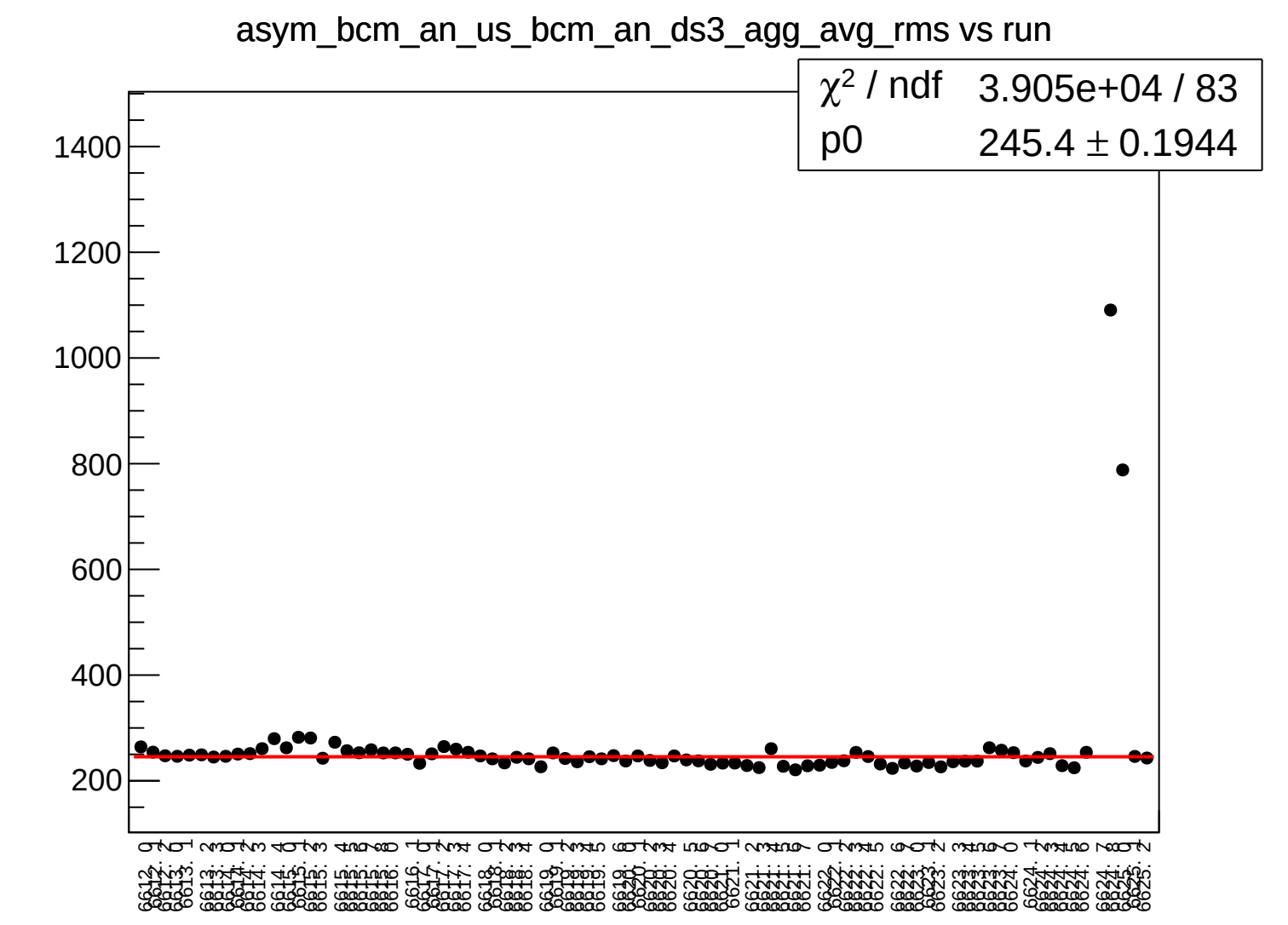

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 69.46 / 83
p0 24.65 ± 11.97
pull
Entries 84
Mean 2595
Std Dev 0

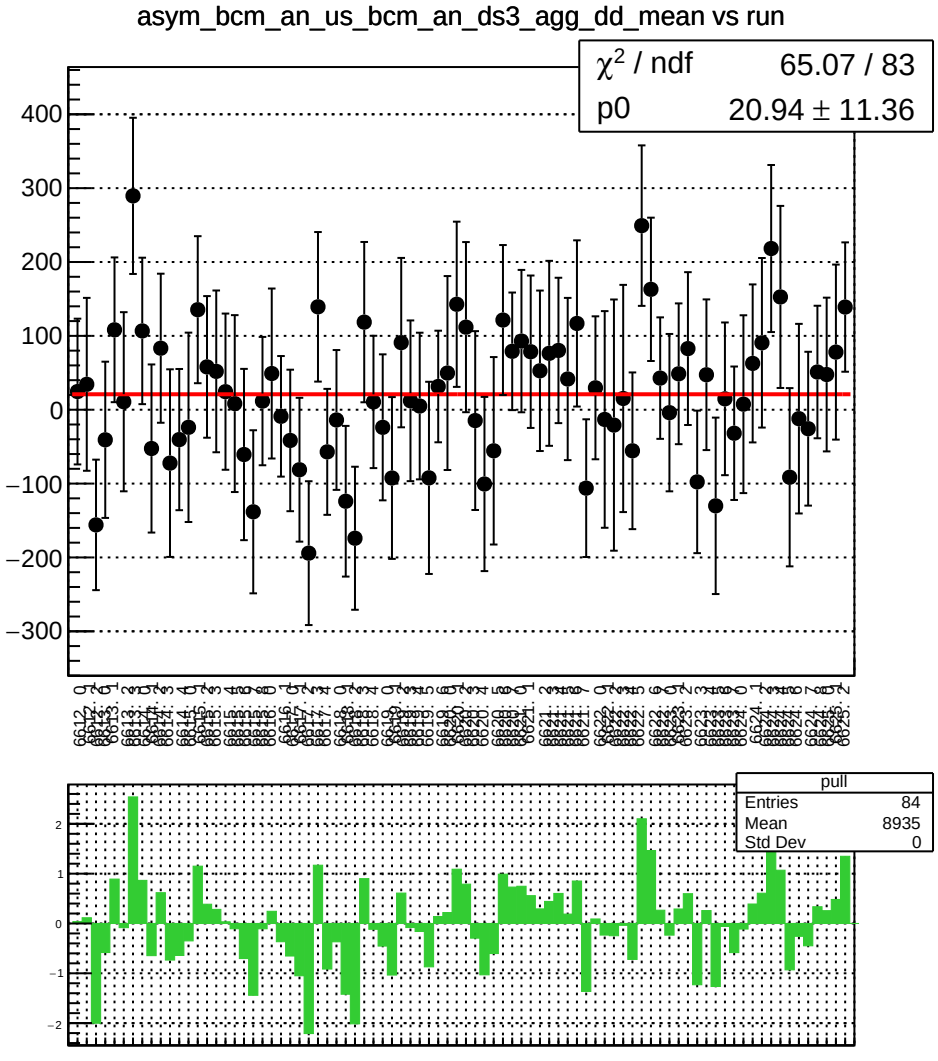

pull1D
Entries 84
Mean 0.001404
Std Dev 0.9094

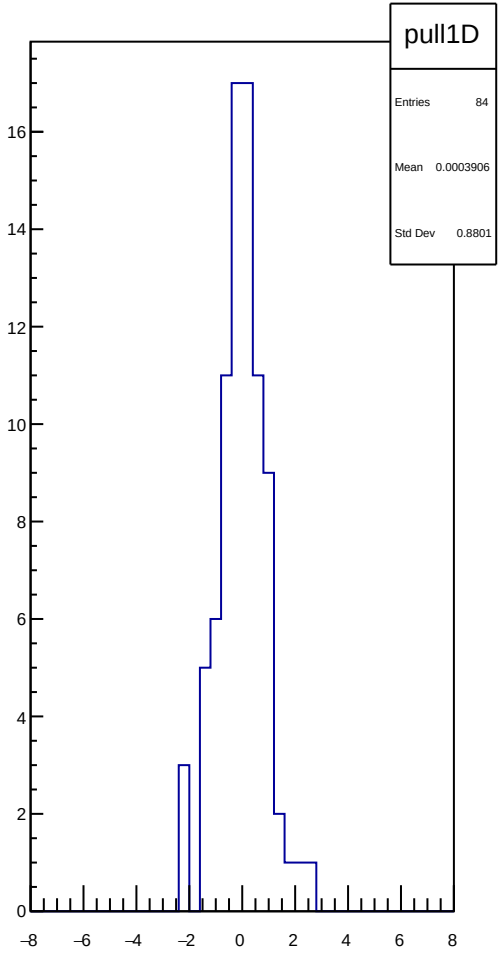

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.569e+04 / 83
p0 10.76 ± 0.008461
17
16
15
14
13
12
11
10
9

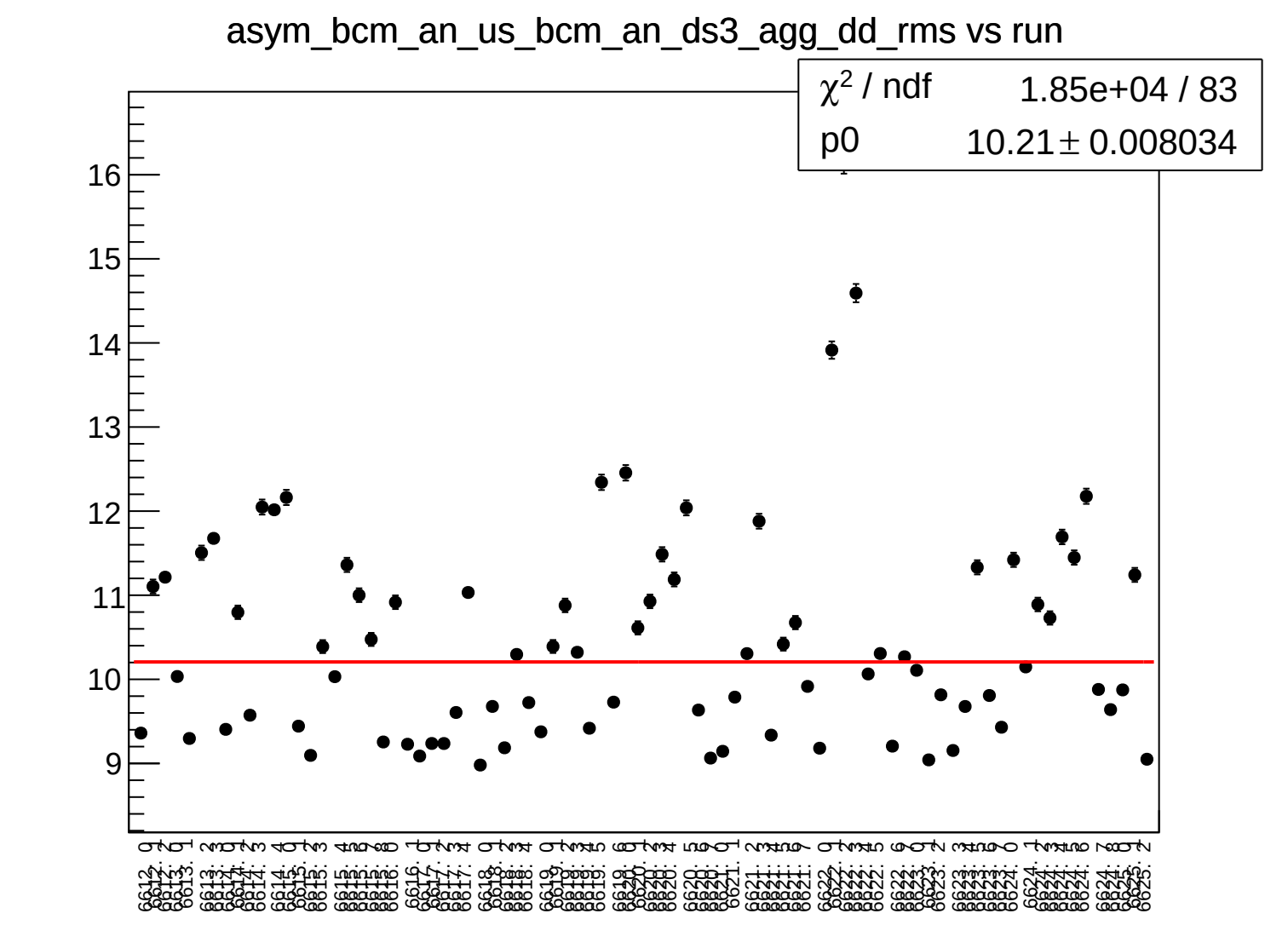

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 13.05 / 83
p0 247.5 ± 274.9
pull
Entries 84
Mean −132.3
Std Dev 0

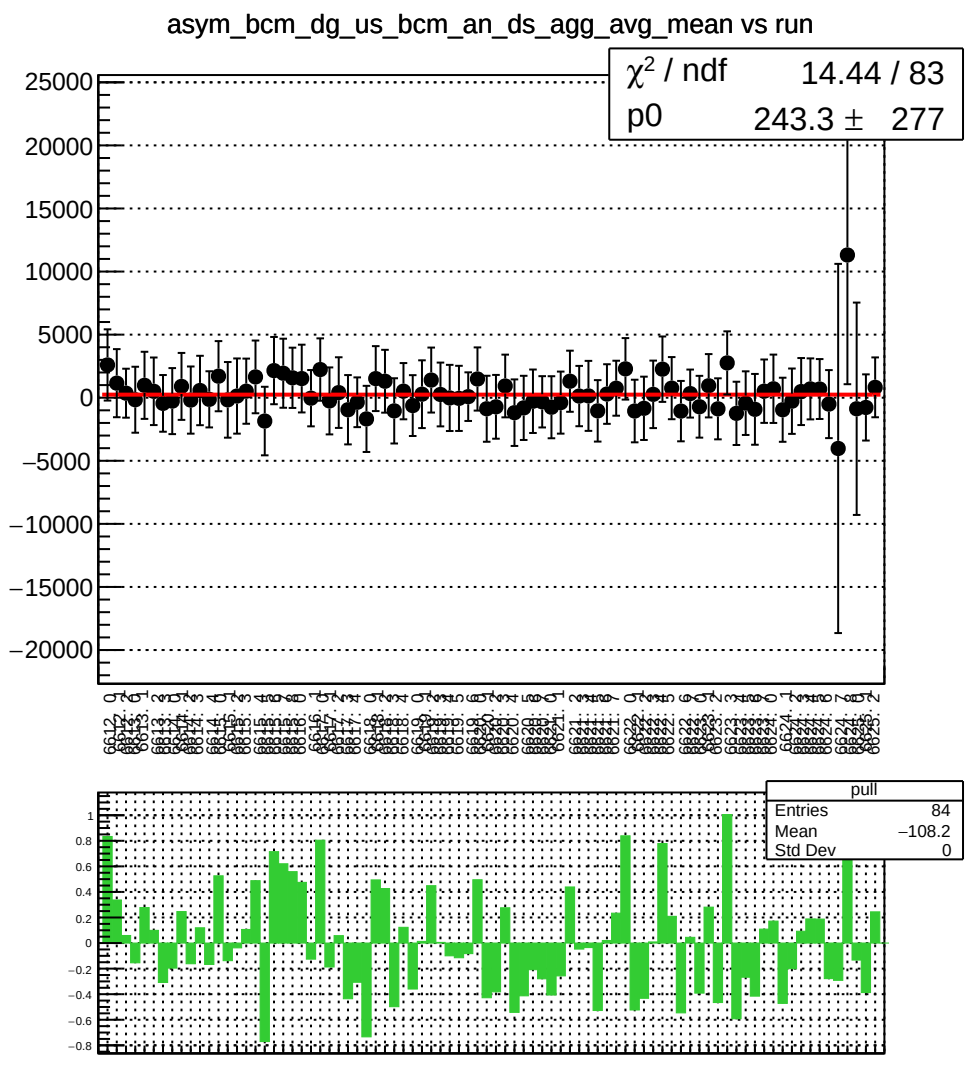

pull1D
Entries 84
Mean 0.008357
Std Dev 0.3941

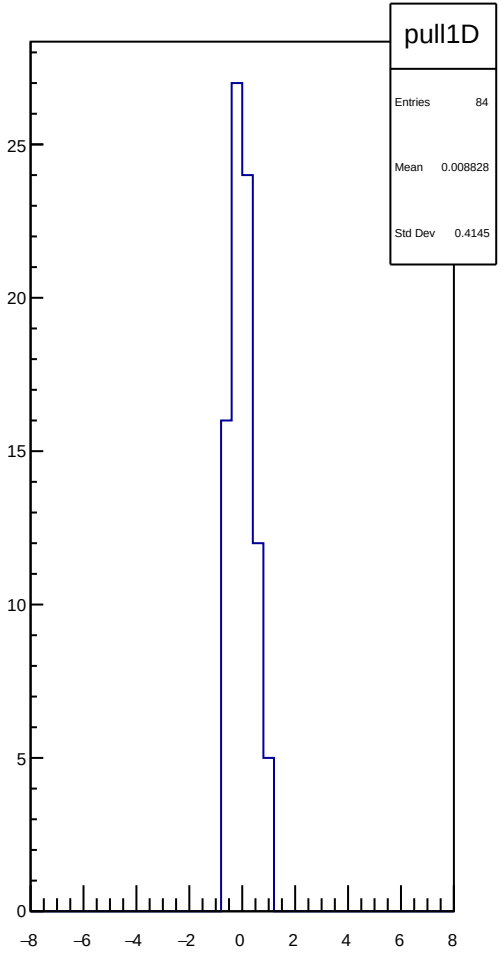

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3.905e+04 / 83
p0 245.4 ± 0.1944
1400
1200
1000
800
600
400
200

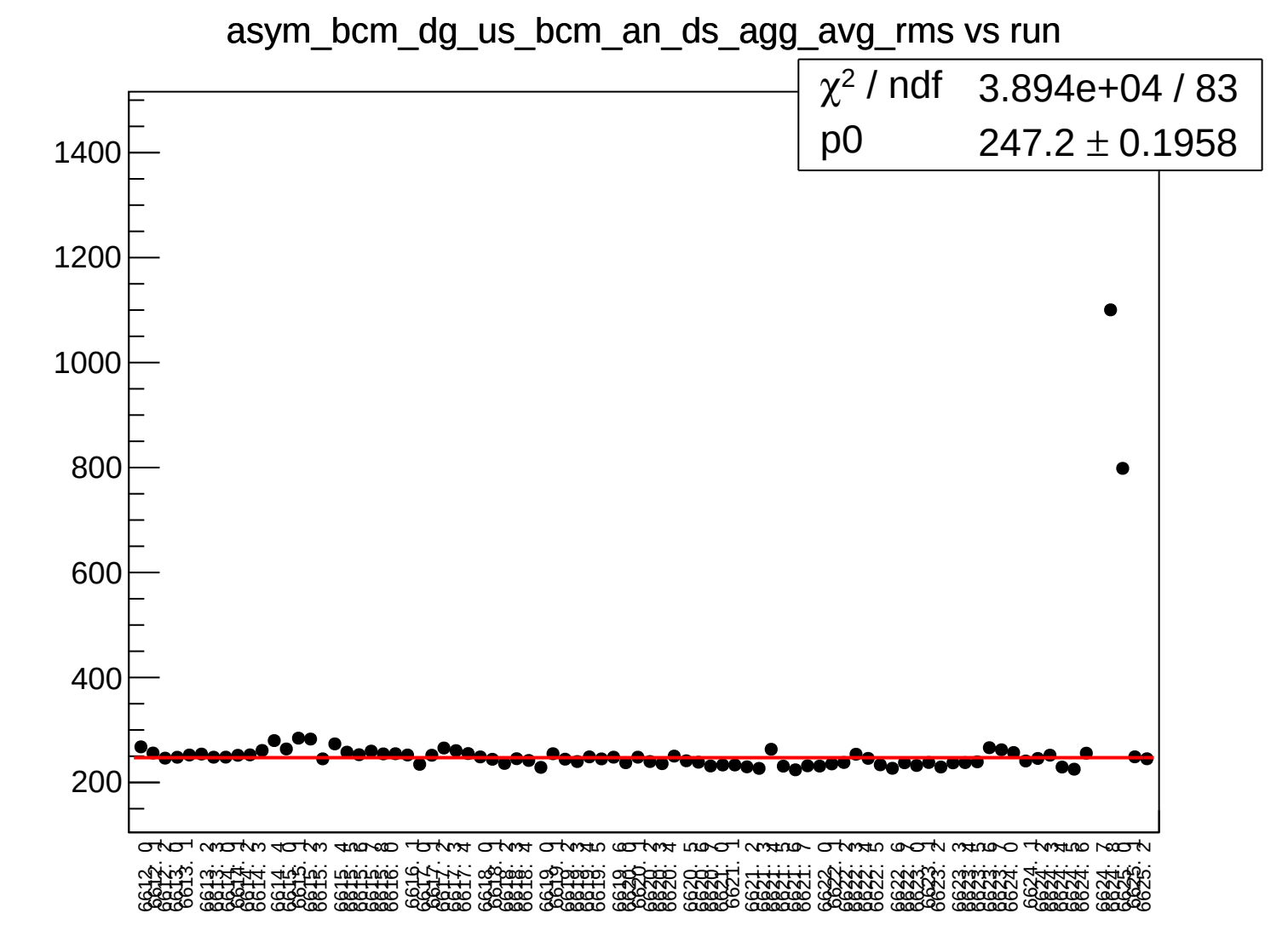

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 65.07 / 83
p0 20.94 ± 11.36
pull
Entries 84
Mean 8935
Std Dev 0

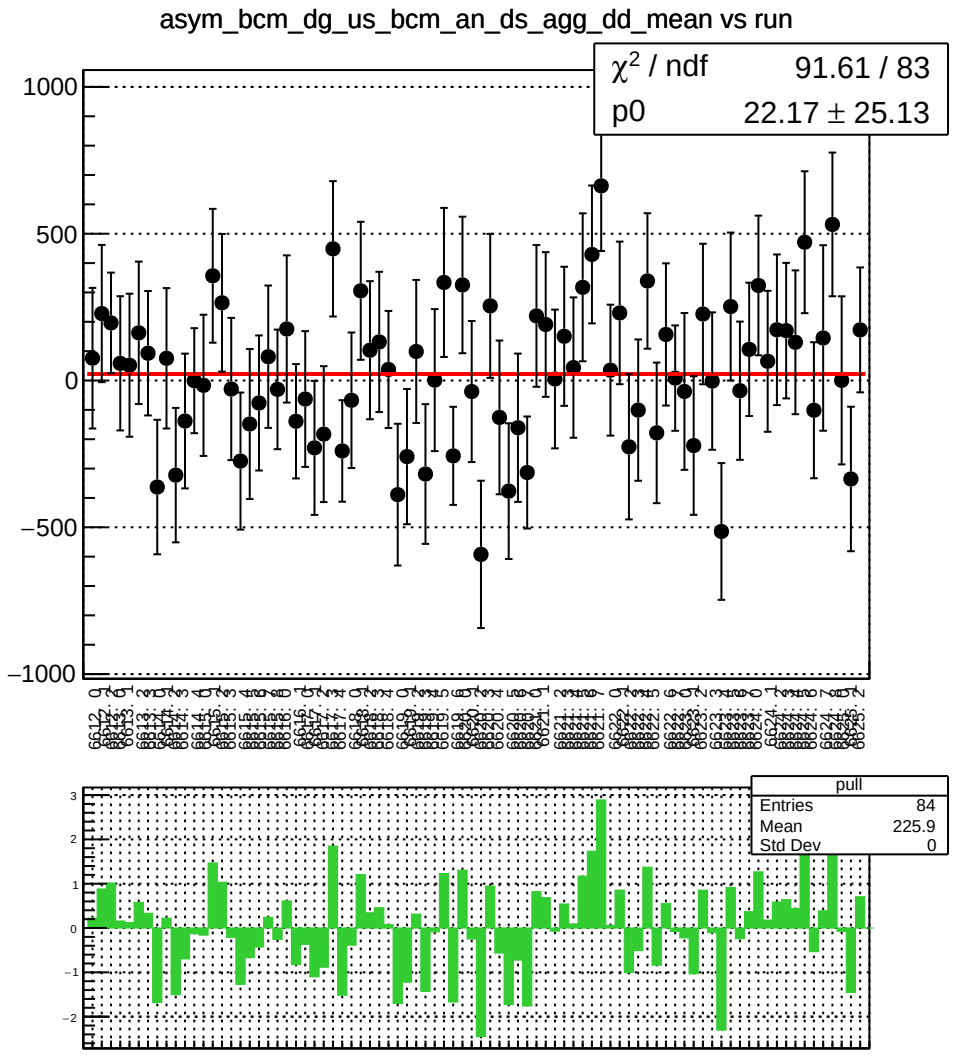

pull1D
Entries 84
Mean 0.0003906
Std Dev 0.8801

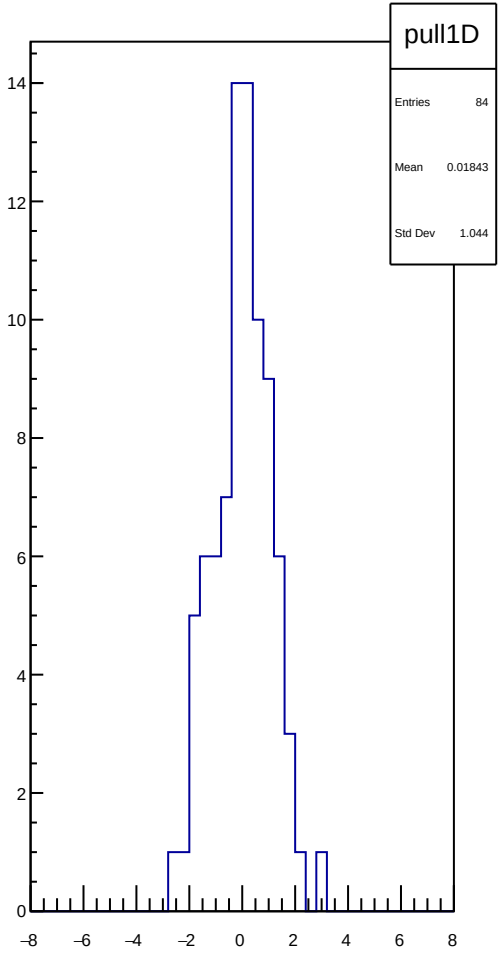

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.85e+04 / 83
p0 10.21 ± 0.008034
16
15
14
13
12
11
10
9

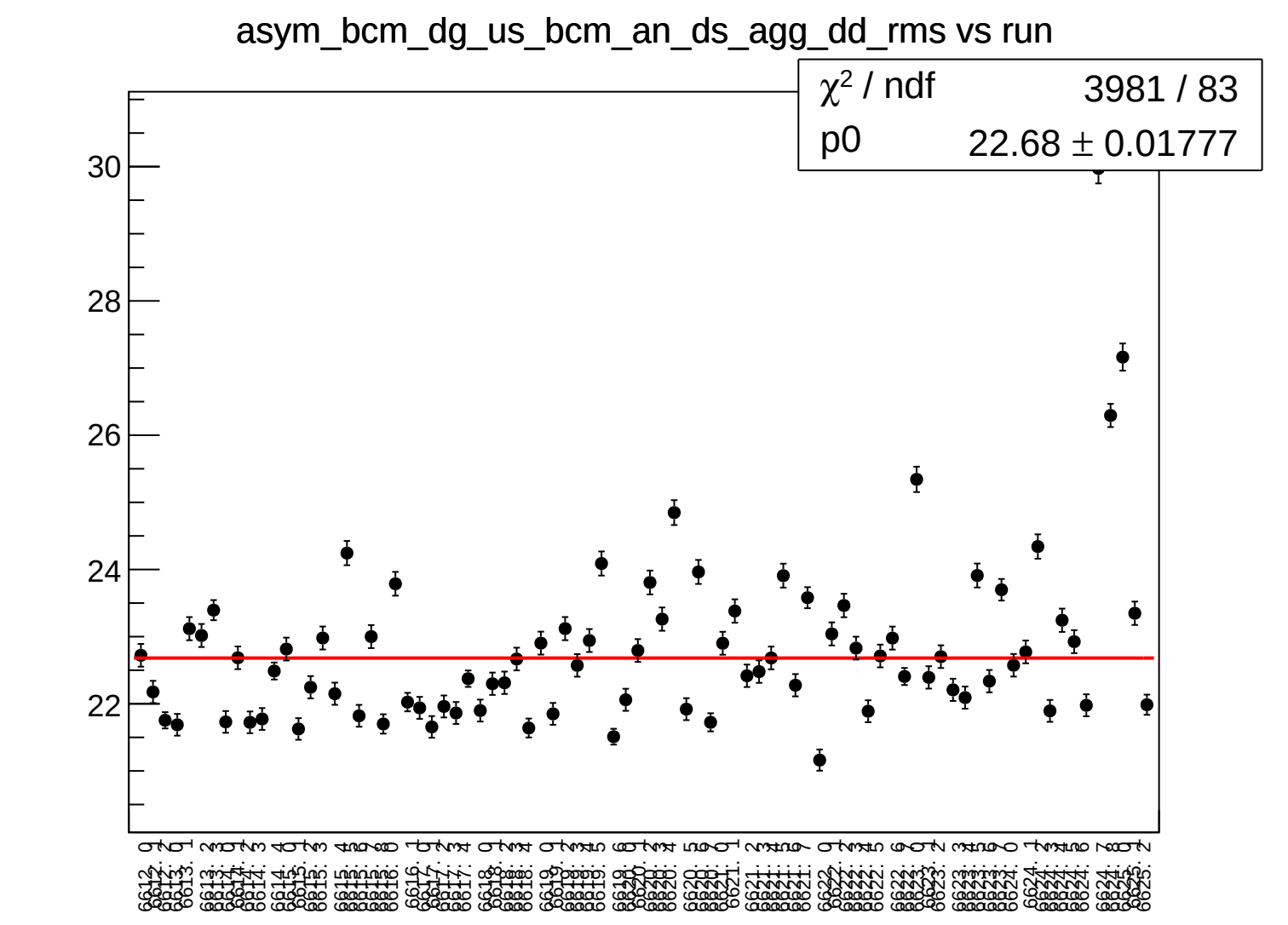

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.44 / 83
p0 243.3 ± 277
pull
Entries 84
Mean −108.2
Std Dev 0

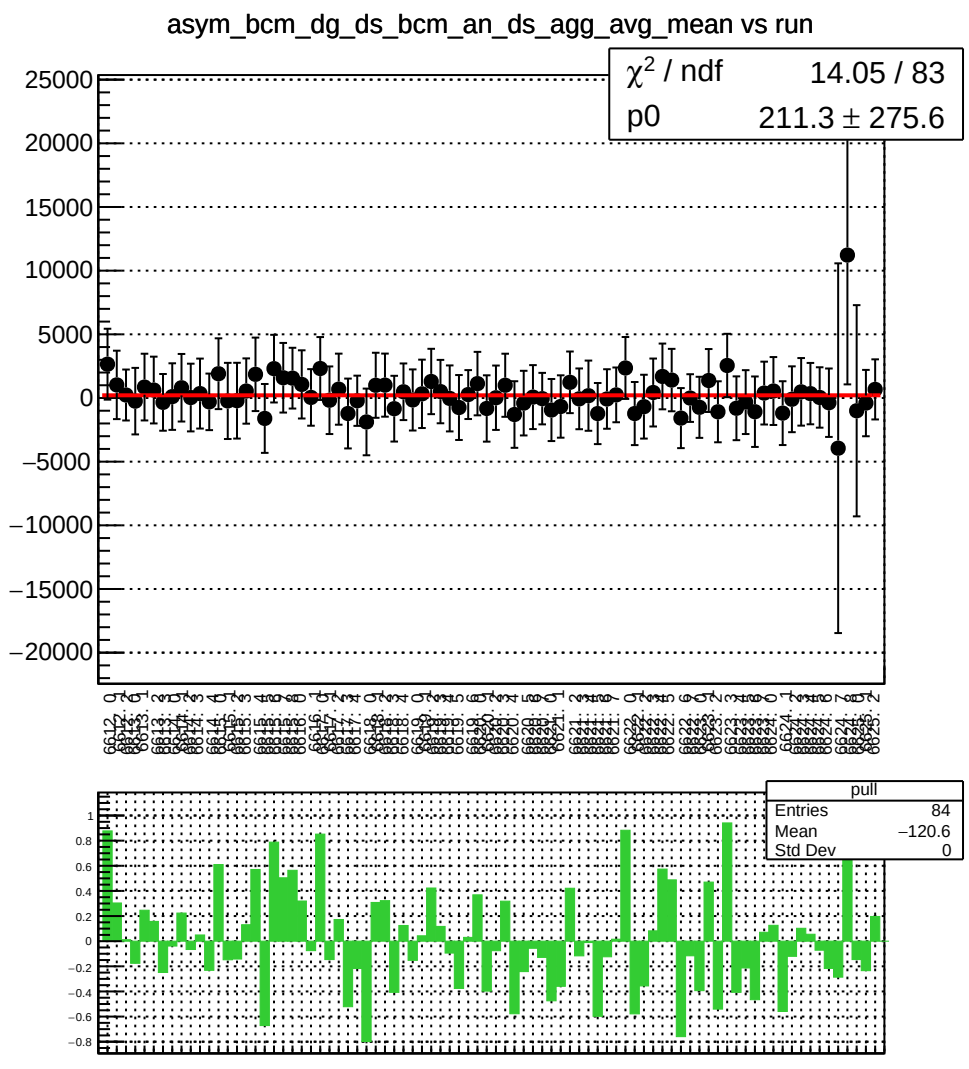

pull1D
Entries 84
Mean 0.008828
Std Dev 0.4145

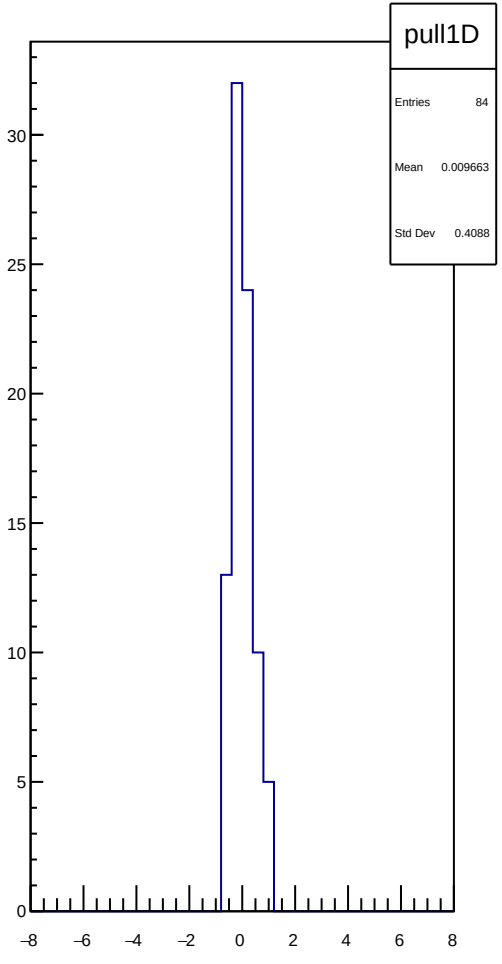

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.894e+04 / 83
p0 247.2 ± 0.1958
1400
1200
1000
800
600
400
200

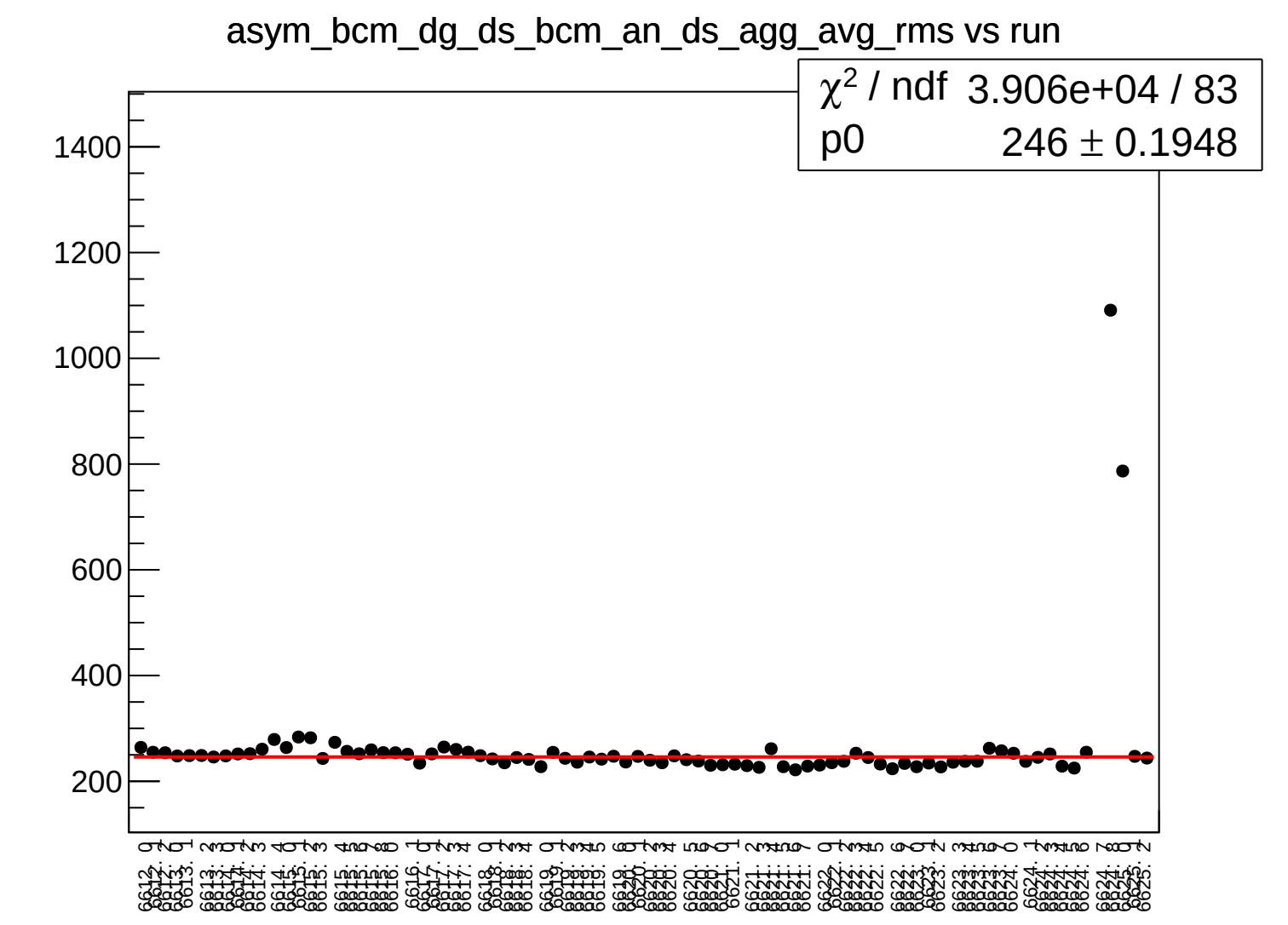

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 91.61 / 83
p0 22.17 ± 25.13
1000
500
0
−500
−1000
pull
Entries 84
Mean 225.9
Std Dev 0
3
2
1
0
−1
−2

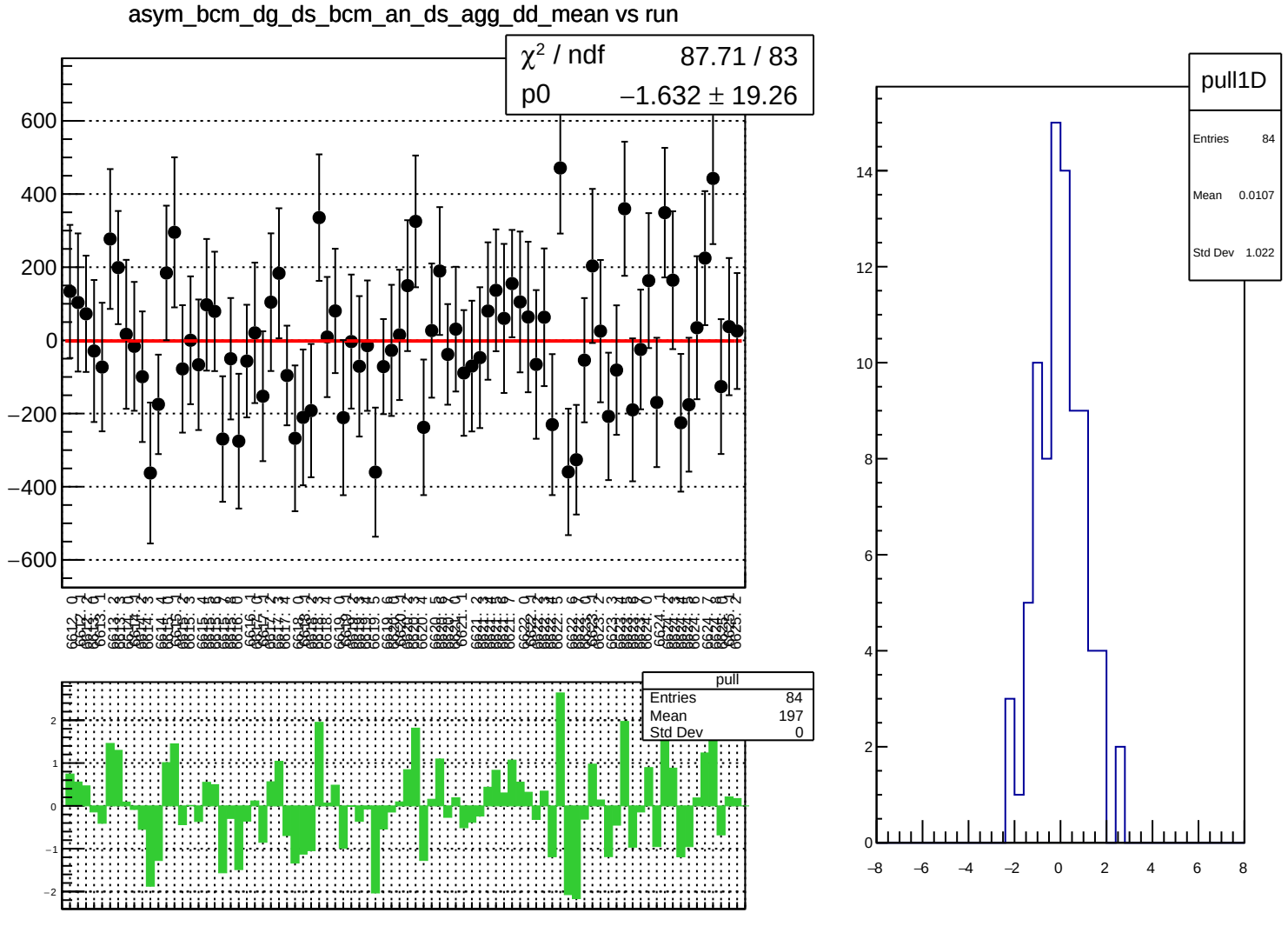

pull1D
Entries 84
Mean 0.01843
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

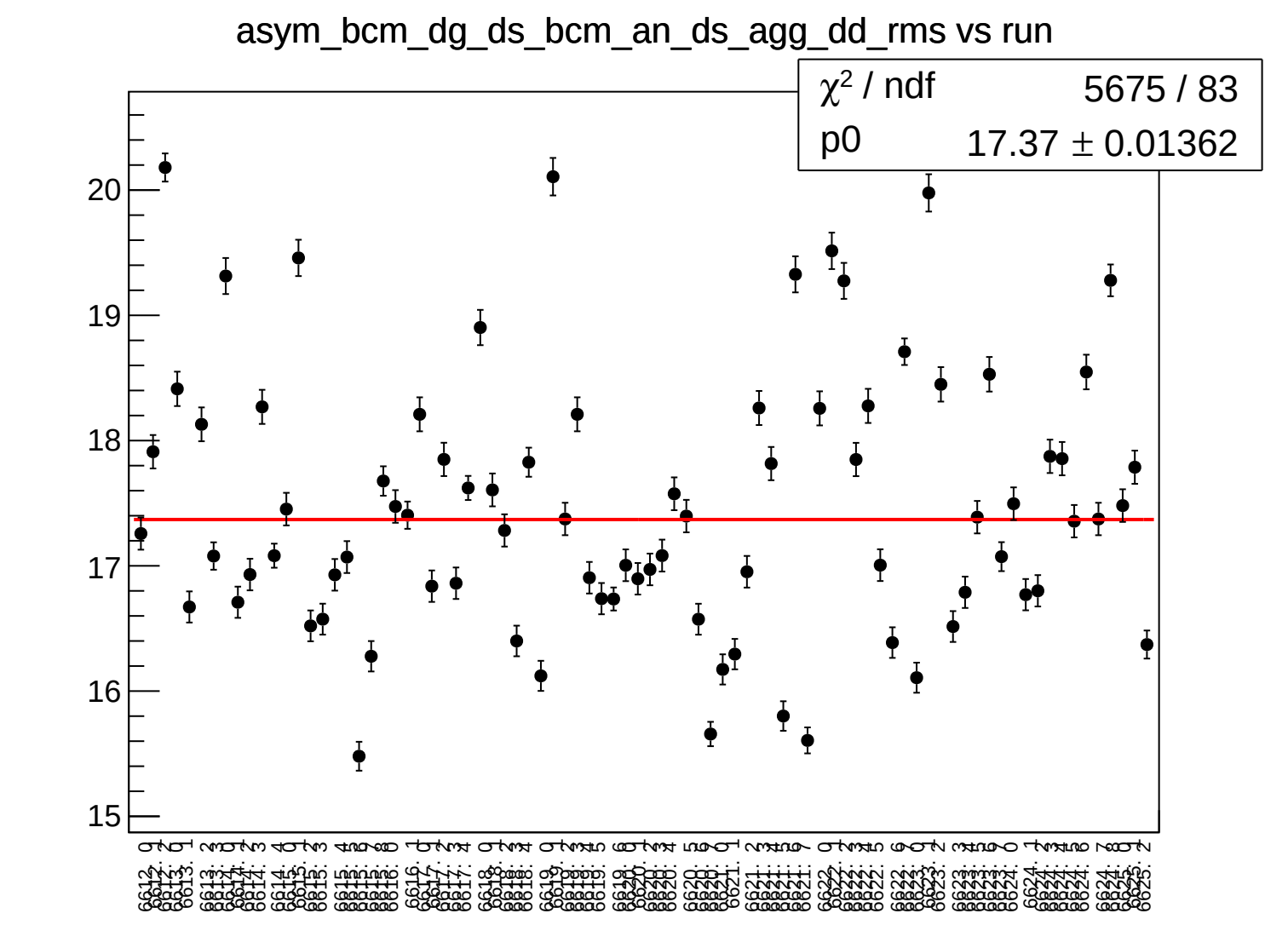

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3981 / 83
p0 22.68 ± 0.01777
30
28
26
24
22

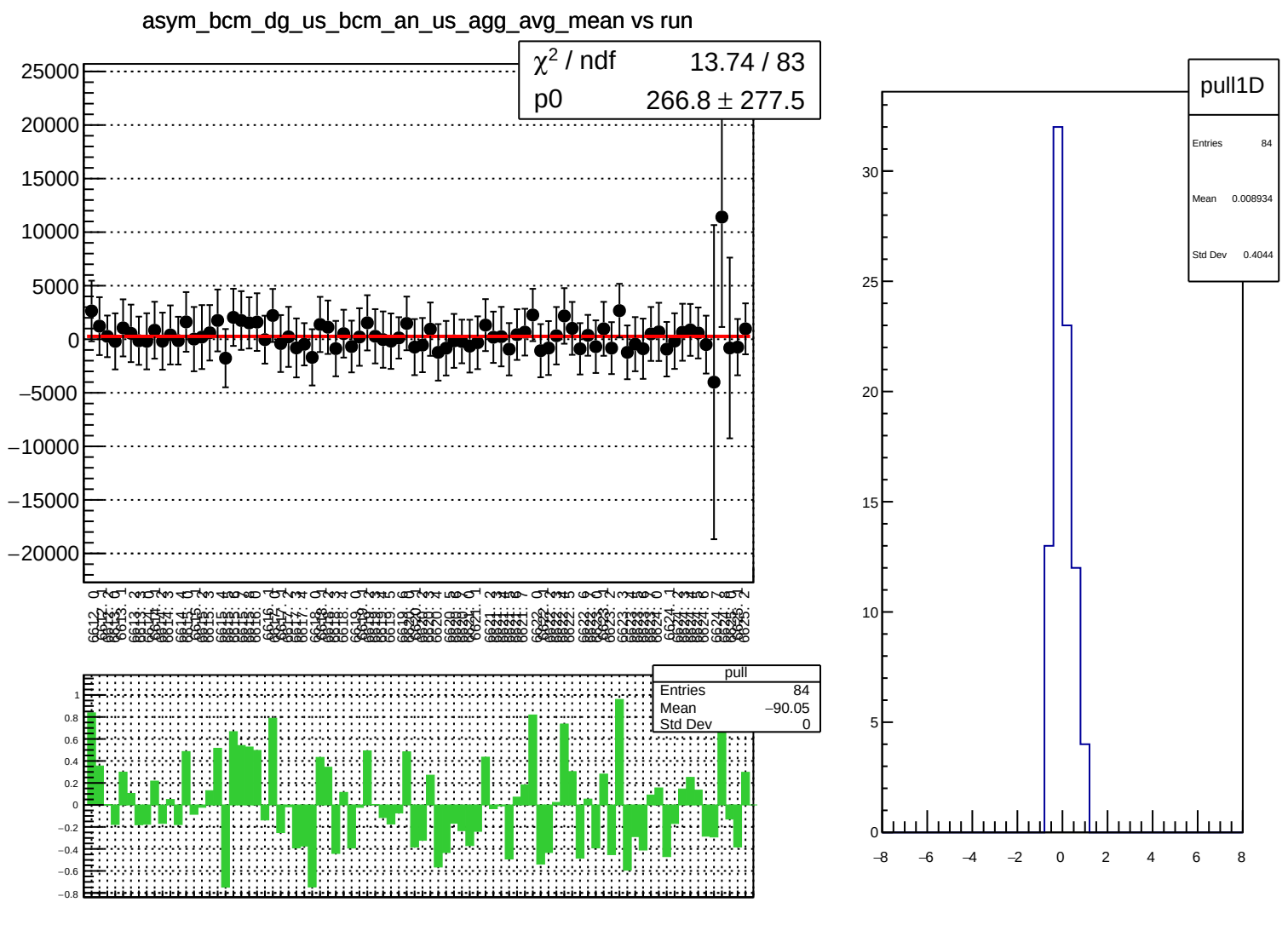

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.05 / 83
p0 211.3 ± 275.6
pull
Entries 84
Mean −120.6
Std Dev 0

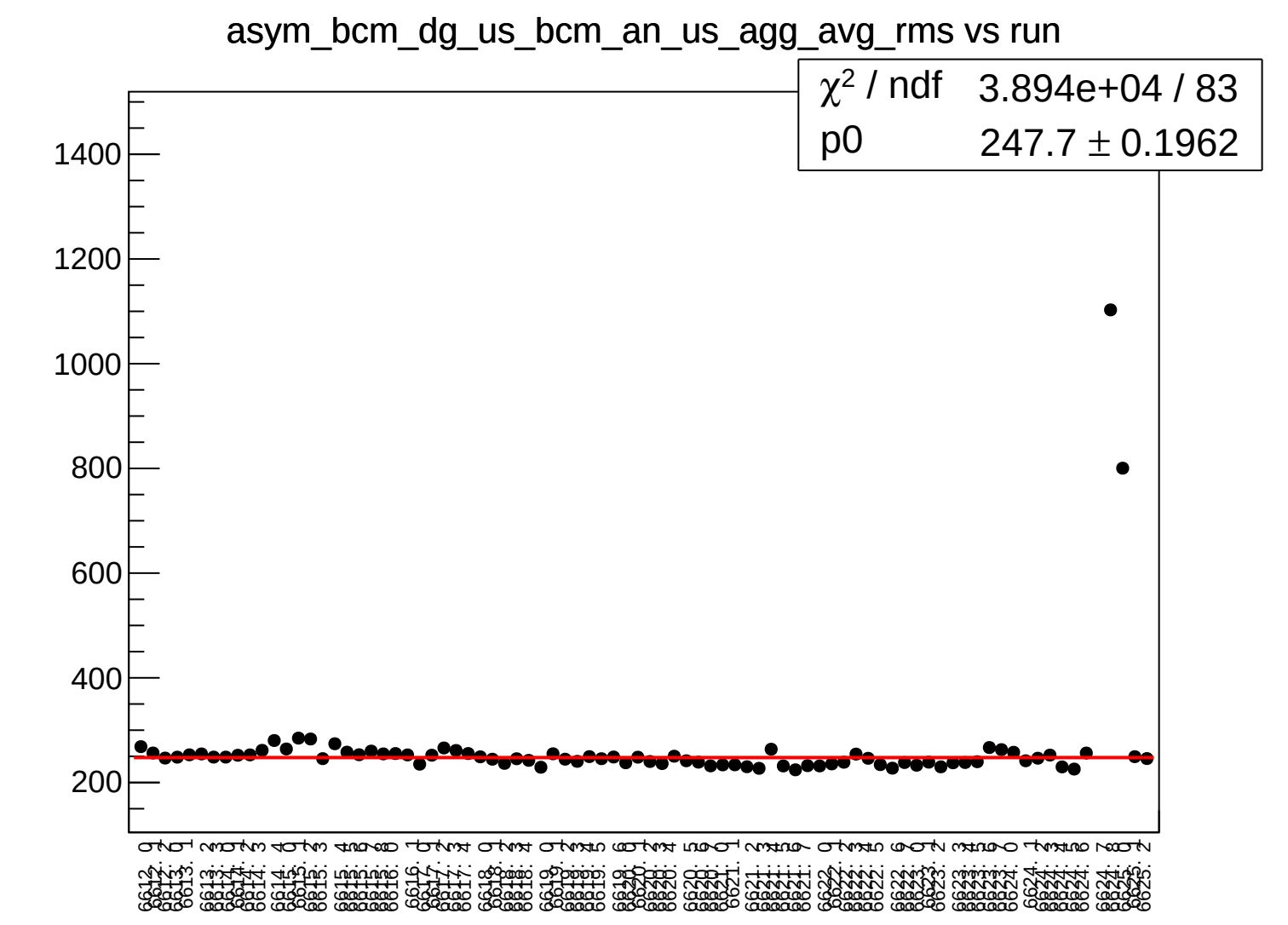

pull1D
Entries 84
Mean 0.009663
Std Dev 0.4088

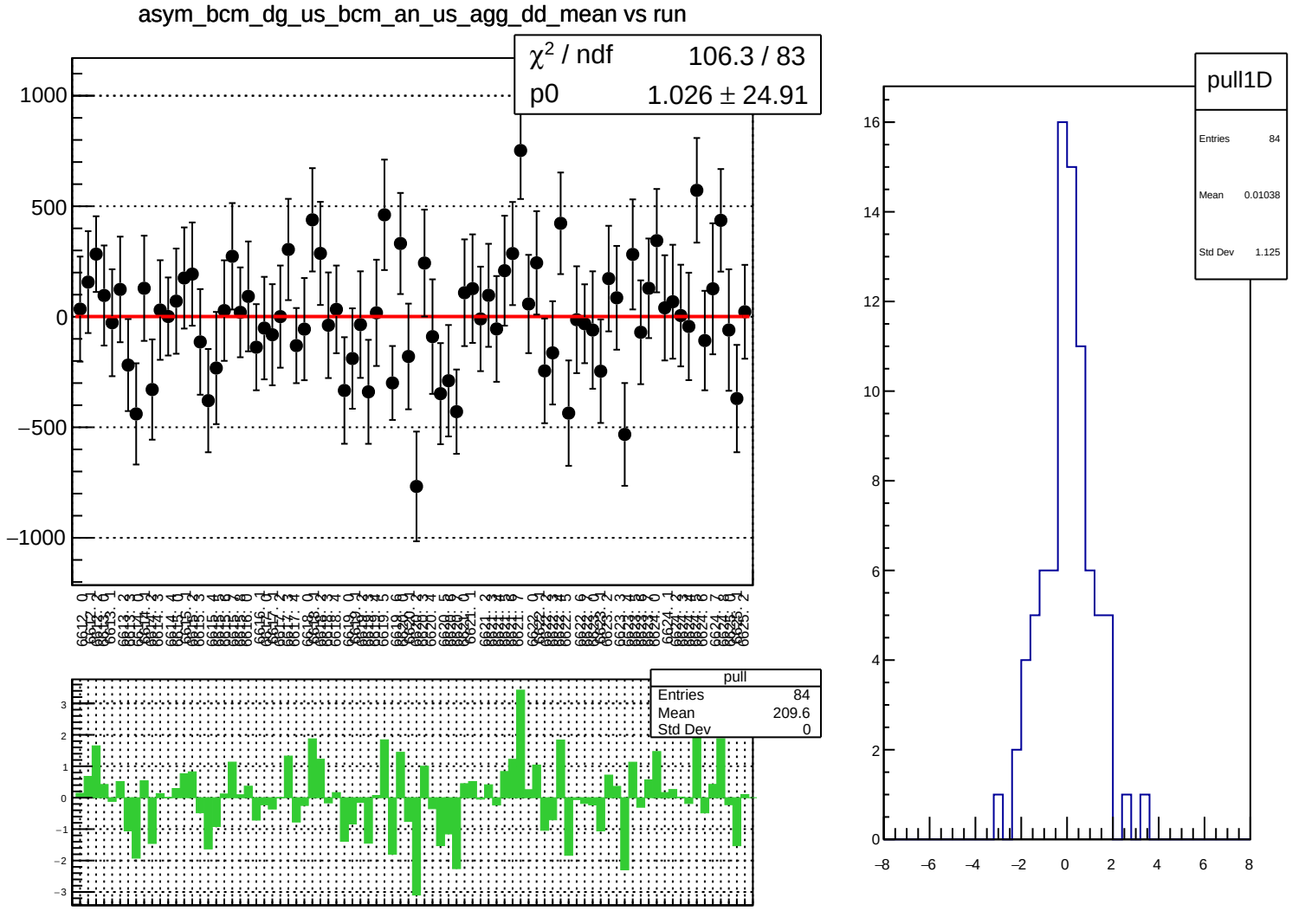

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.906e+04 / 83
p0 246 ± 0.1948
1400
1200
1000
800
600
400
200

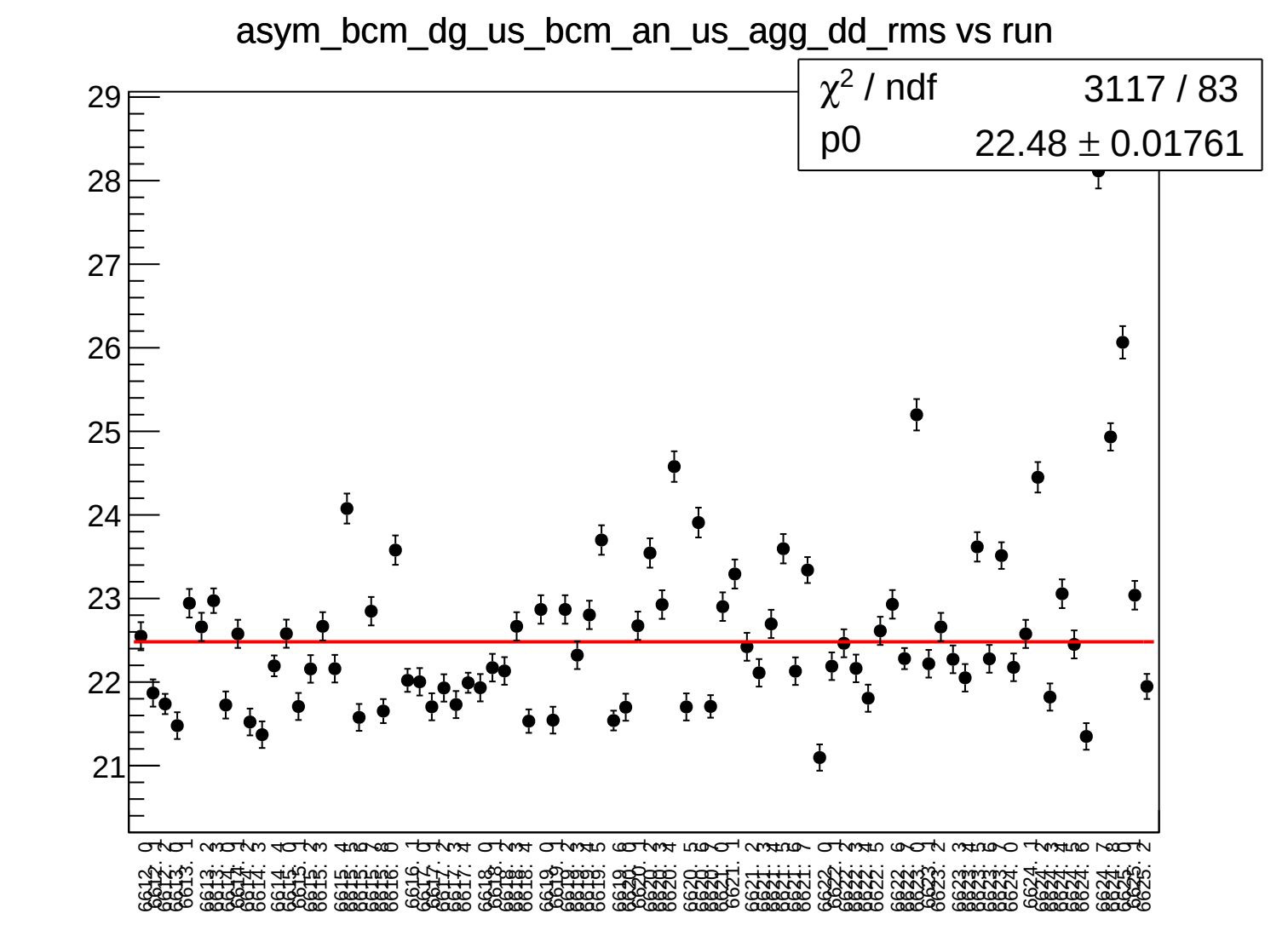

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 87.71 / 83
p0 −1.632 ± 19.26
pull
Entries 84
Mean 197
Std Dev 0
pull1D
Entries 84
Mean 0.0107
Std Dev 1.022

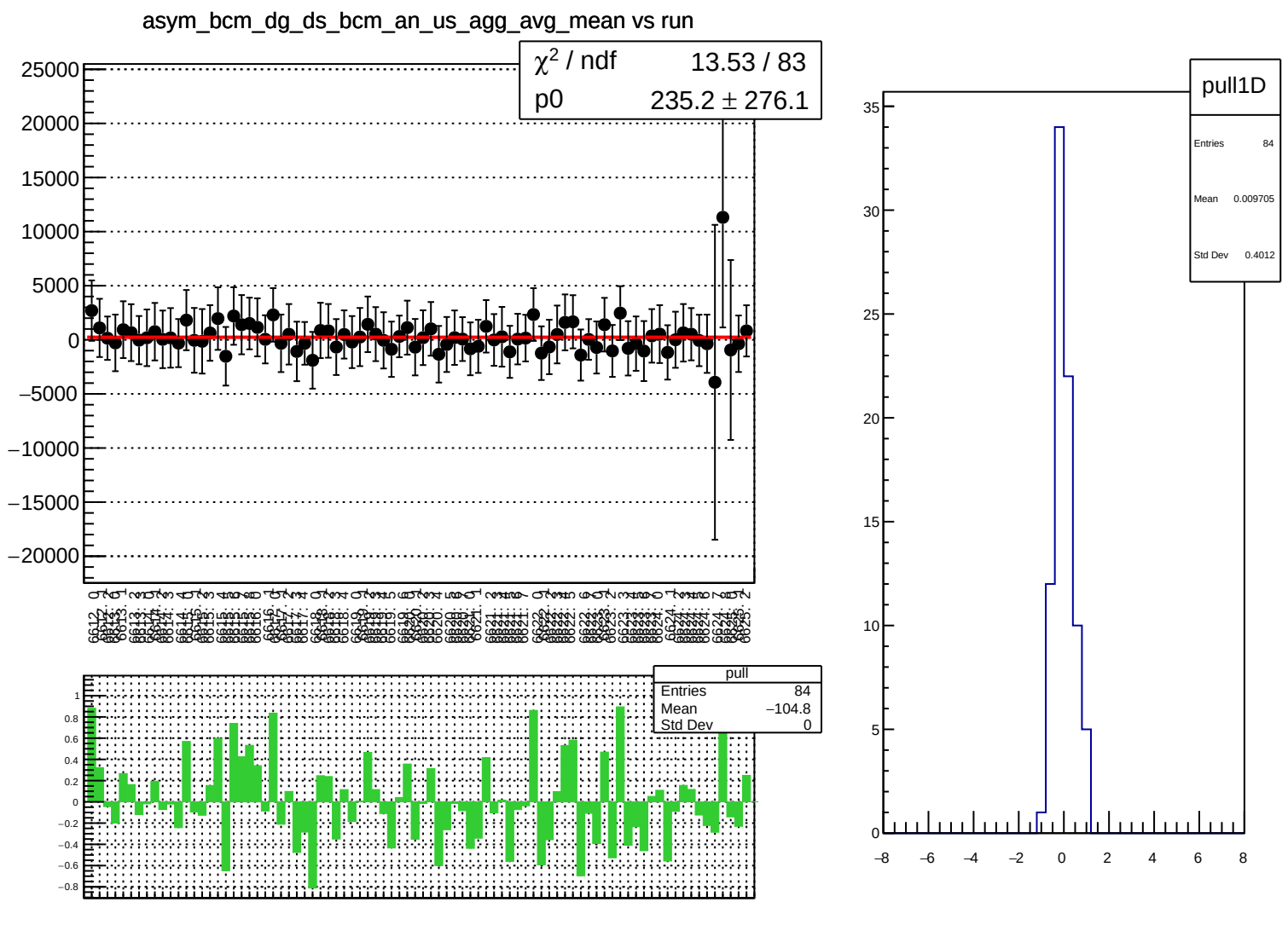

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5675 / 83
p0 17.37 ± 0.01362
20
19
18
17
16
15

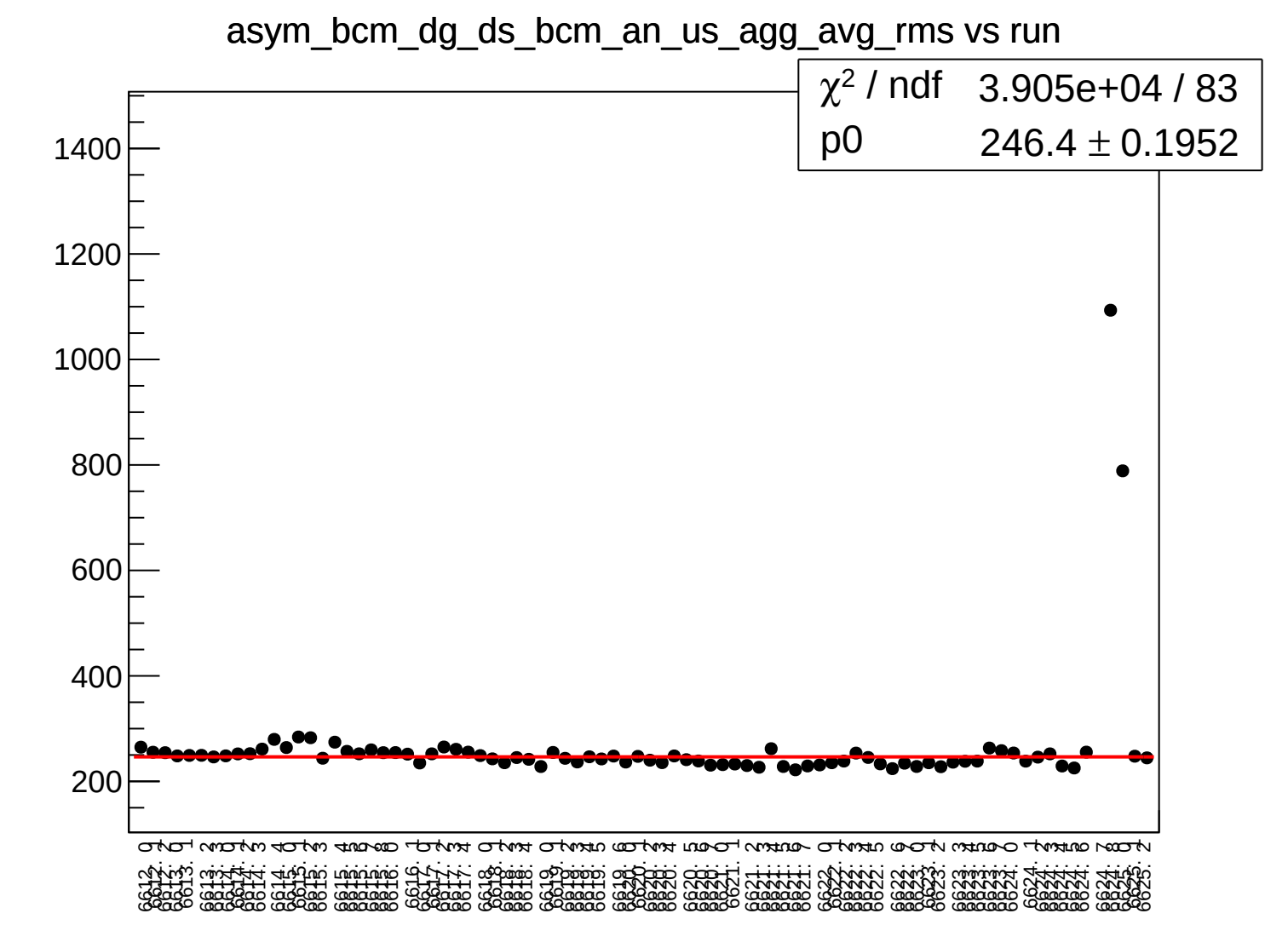

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 13.74 / 83
p0 266.8 ± 277.5
pull
Entries 84
Mean −90.05
Std Dev 0
pull1D
Entries 84
Mean 0.008934
Std Dev 0.4044

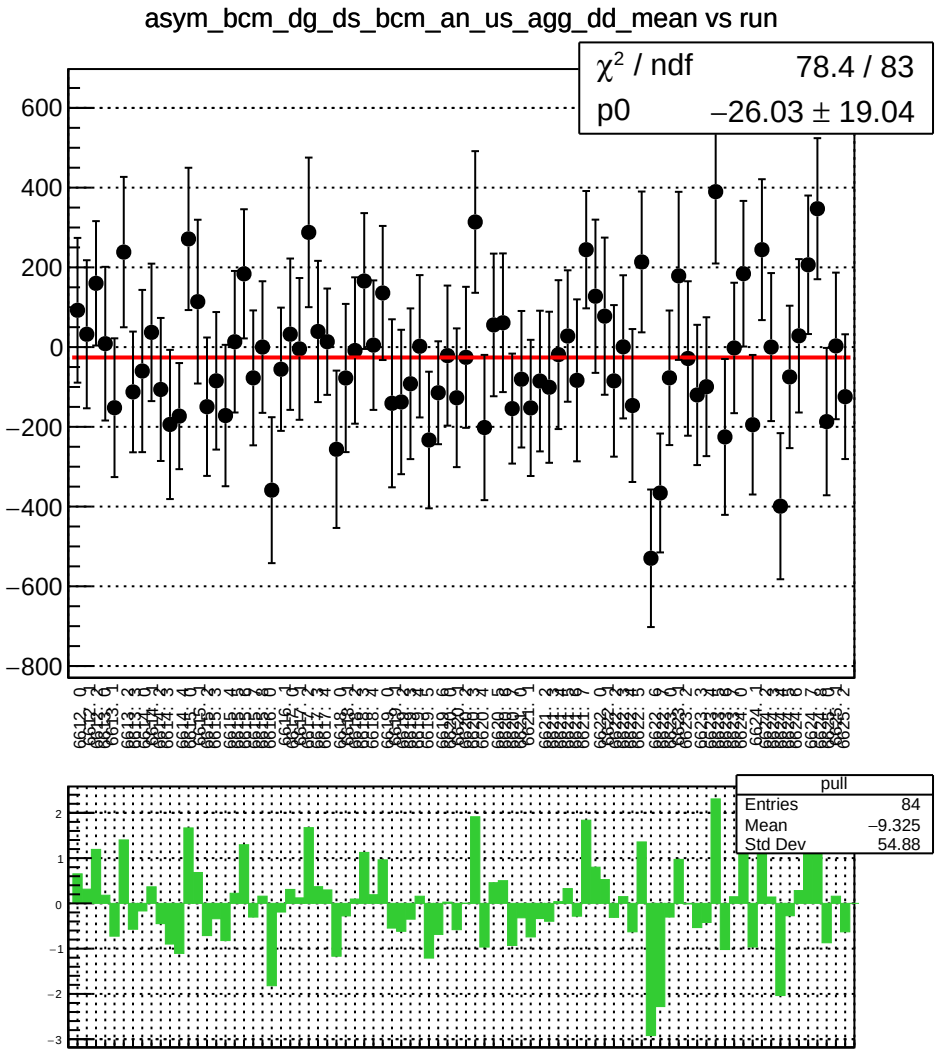

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.894e+04 / 83
p0 247.7 ± 0.1962
1400
1200
1000
800
600
400
200

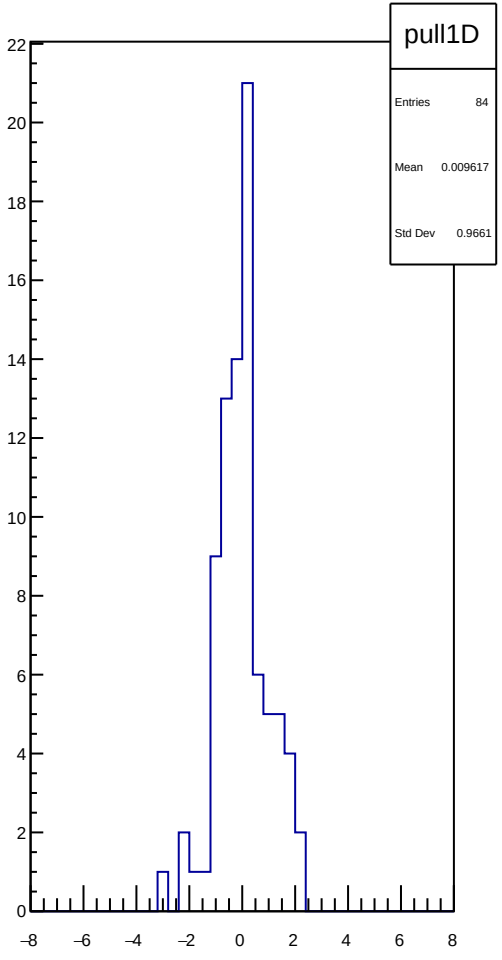

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 106.3 / 83
p0 1.026 ± 24.91
1000
500
0
−500
−1000
pull
Entries 84
Mean 209.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.01038
Std Dev 1.125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

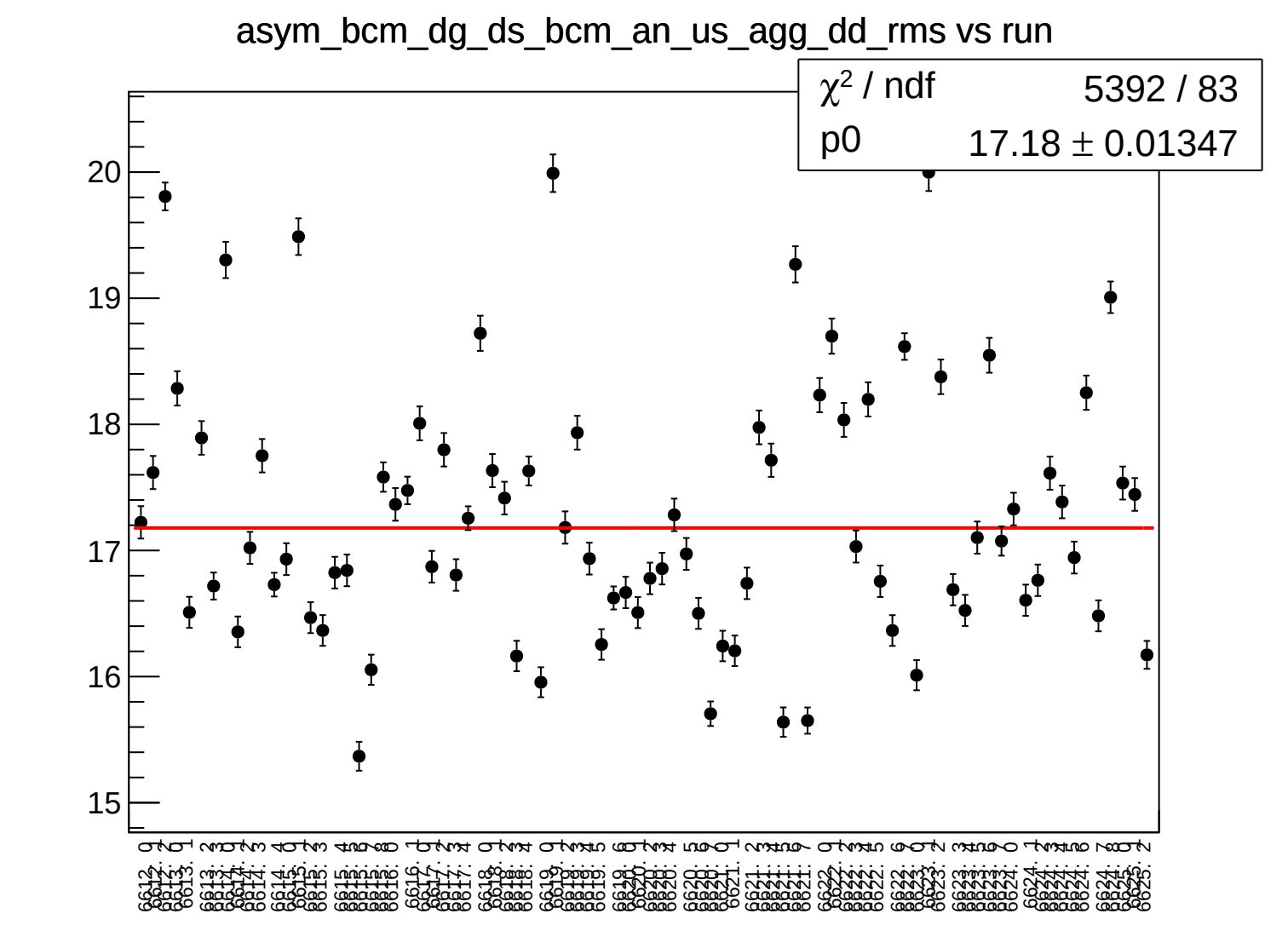

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3117 / 83
p0 22.48 ± 0.01761
29
28
27
26
25
24
23
22
21

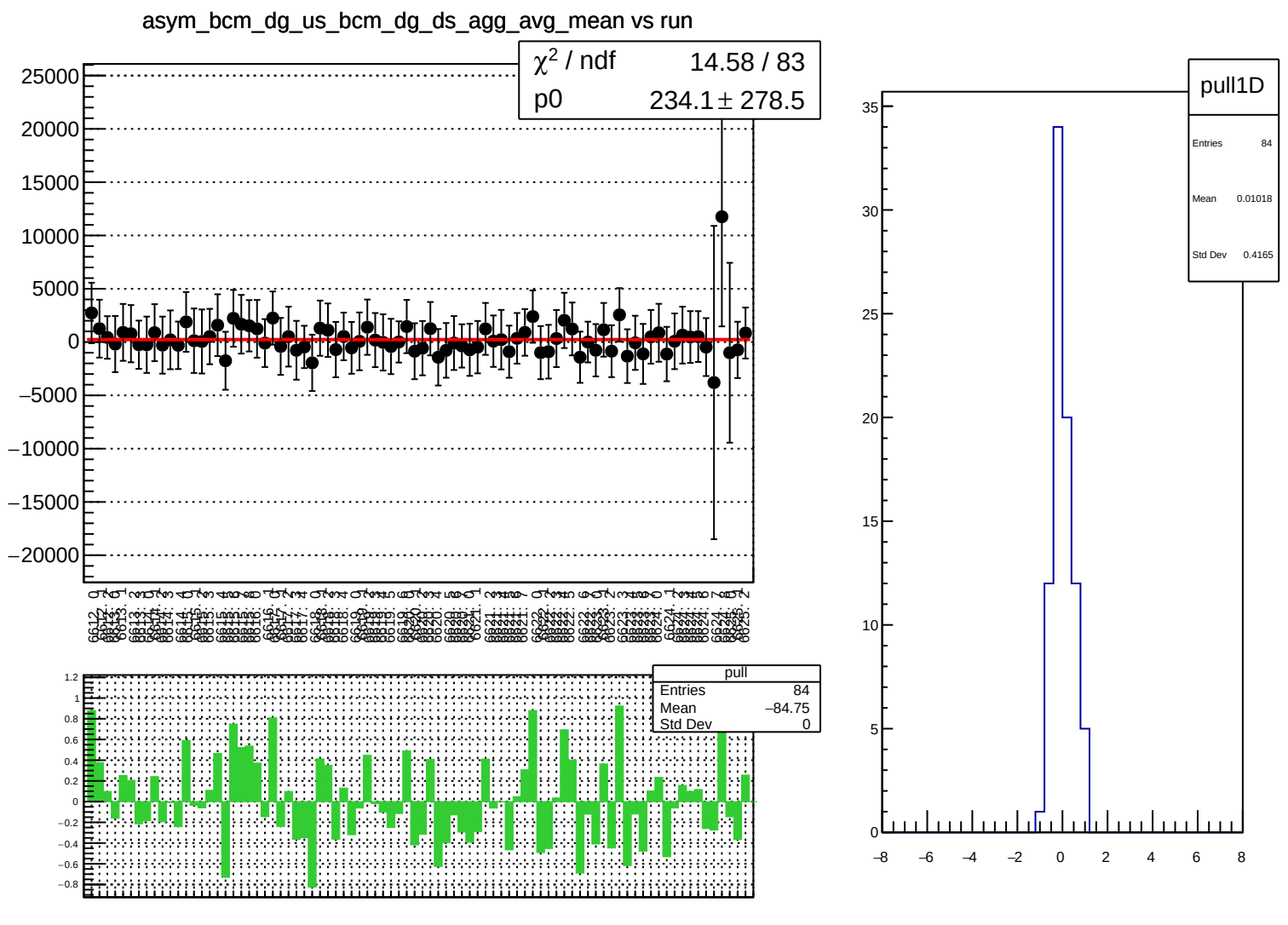

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 13.53 / 83
p0 235.2 ± 276.1
pull
Entries 84
Mean −104.8
Std Dev 0
pull1D
Entries 84
Mean 0.009705
Std Dev 0.4012

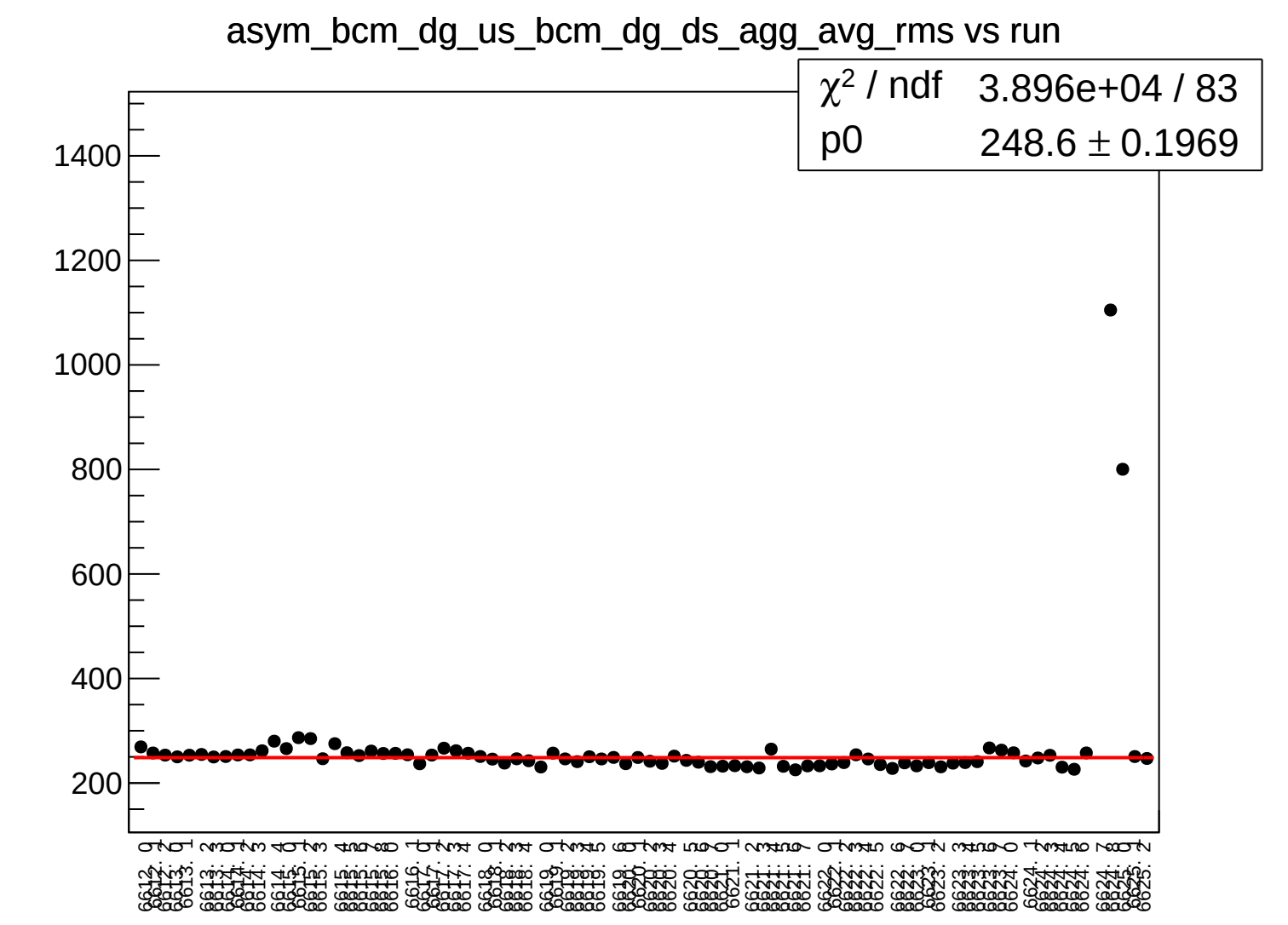

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.905e+04 / 83
p0 246.4 ± 0.1952
1400
1200
1000
800
600
400
200

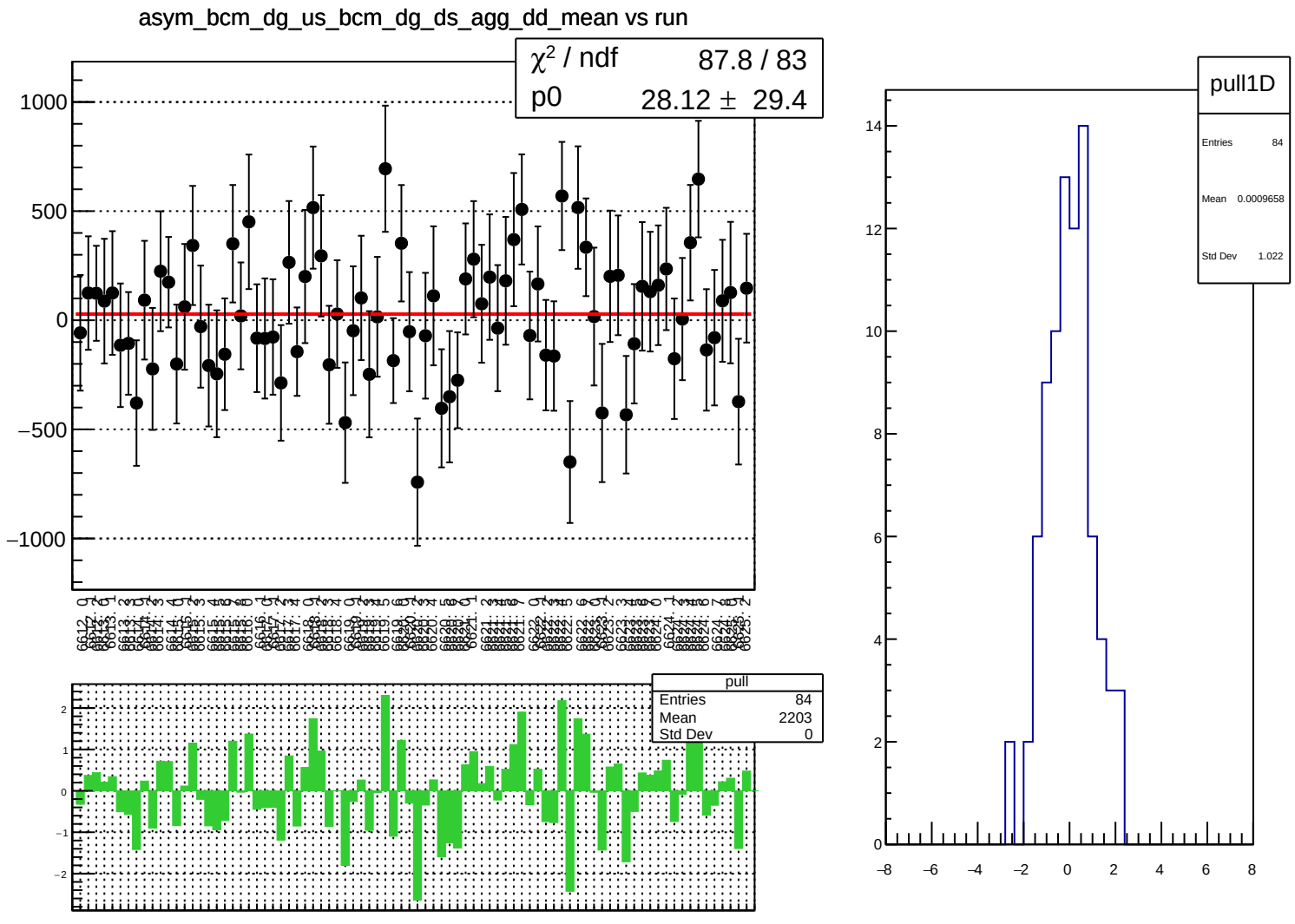

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 78.4 / 83
p0 −26.03 ± 19.04
pull
Entries 84
Mean −9.325
Std Dev 54.88

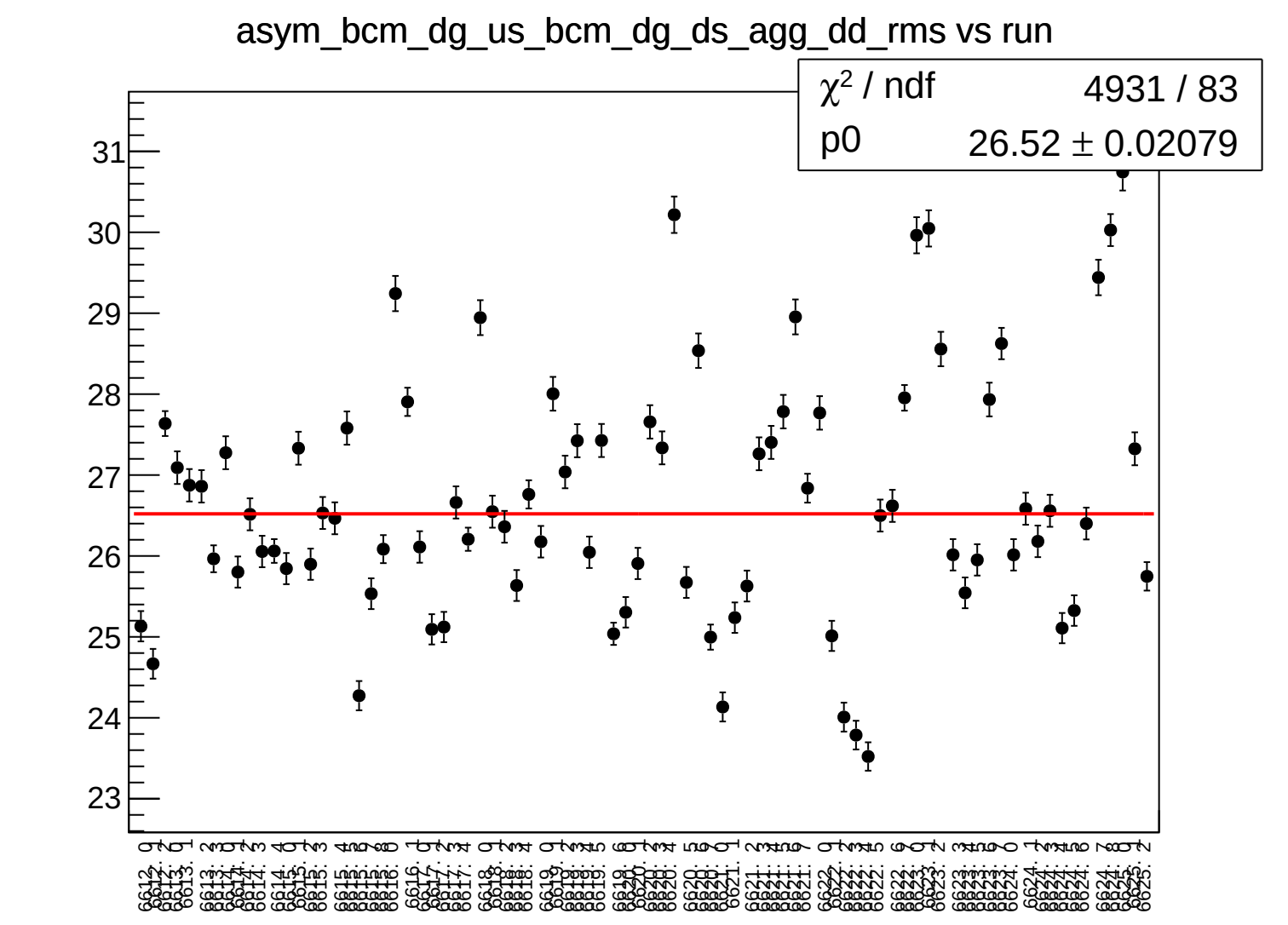

pull1D
Entries 84
Mean 0.009617
Std Dev 0.9661

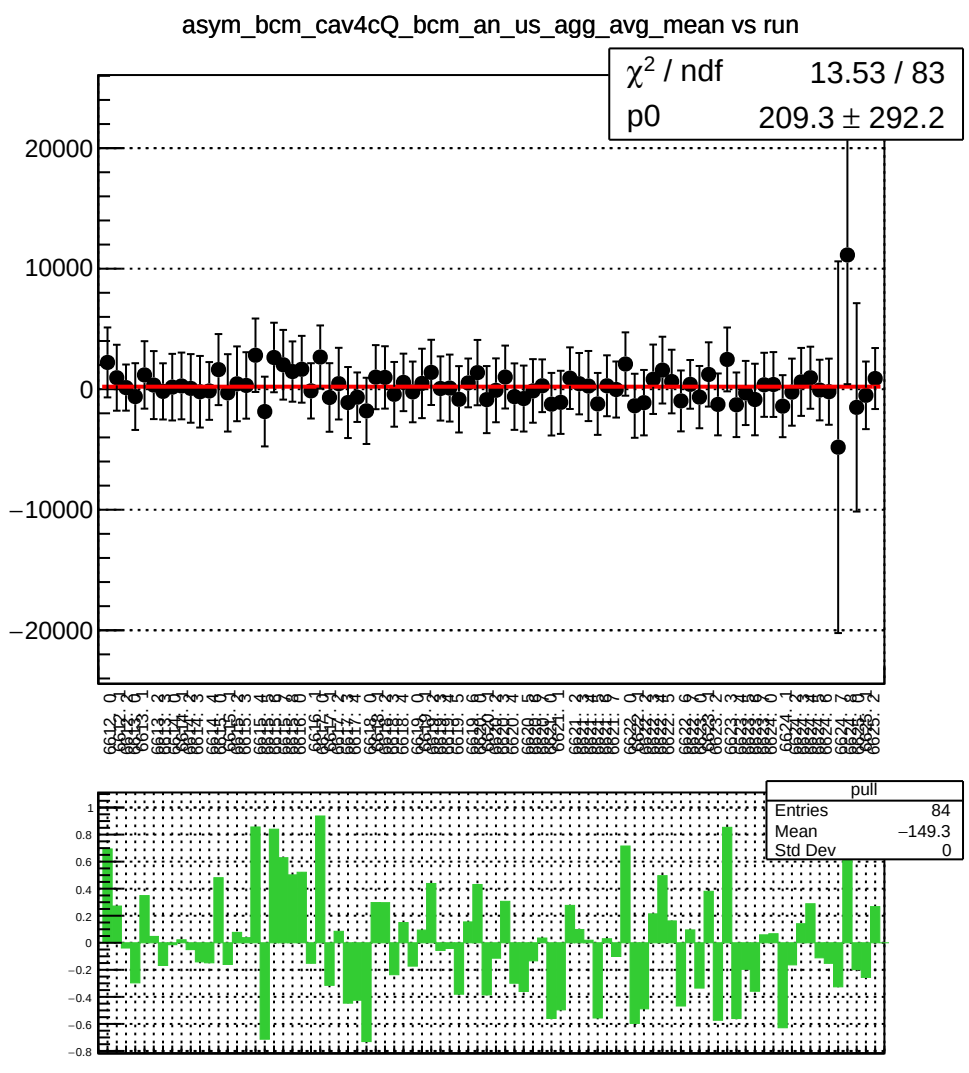

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 5392 / 83
p0 17.18 ± 0.01347
20
19
18
17
16
15

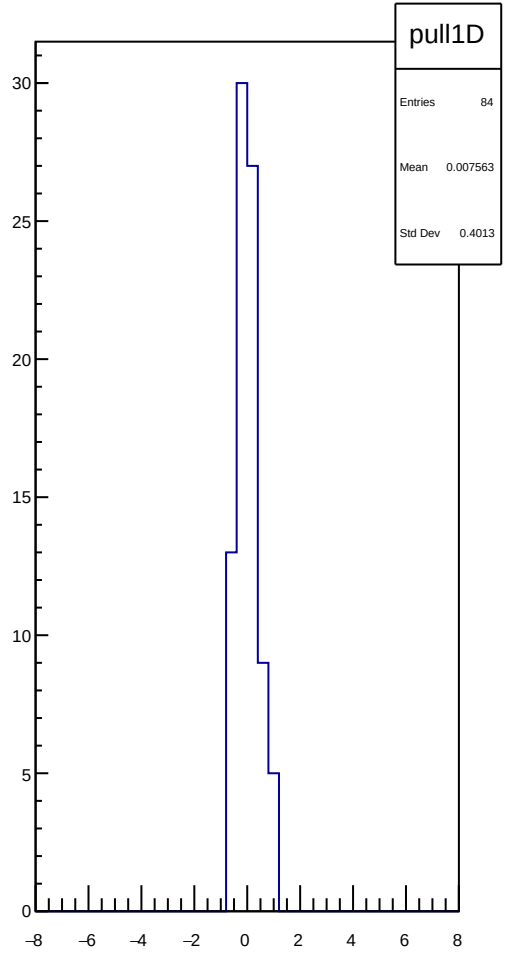

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 14.58 / 83
p0 234.1 ± 278.5
pull
Entries 84
Mean −84.75
Std Dev 0
pull1D
Entries 84
Mean 0.01018
Std Dev 0.4165

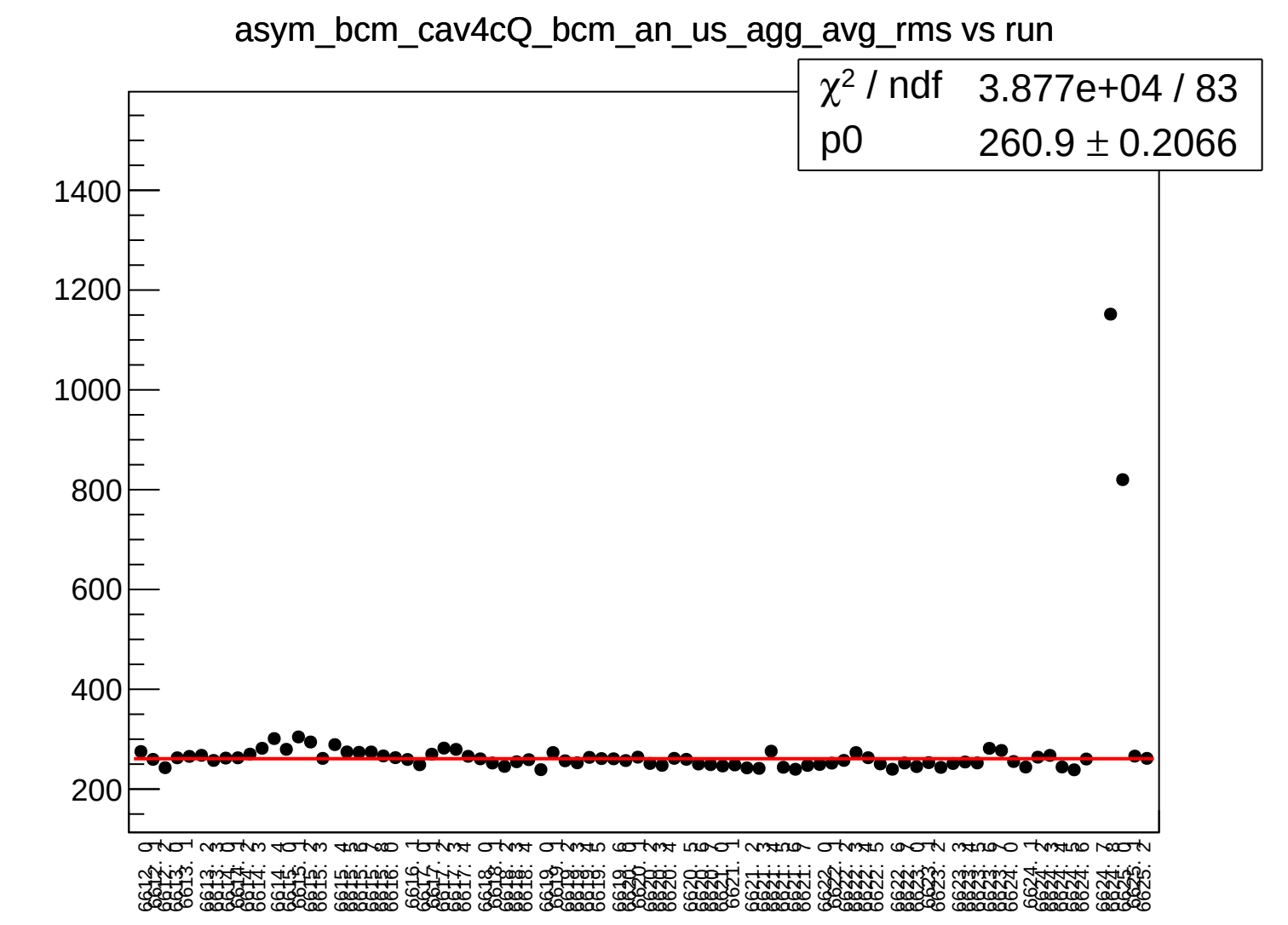

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.896e+04 / 83
p0 248.6 ± 0.1969
1400
1200
1000
800
600
400
200

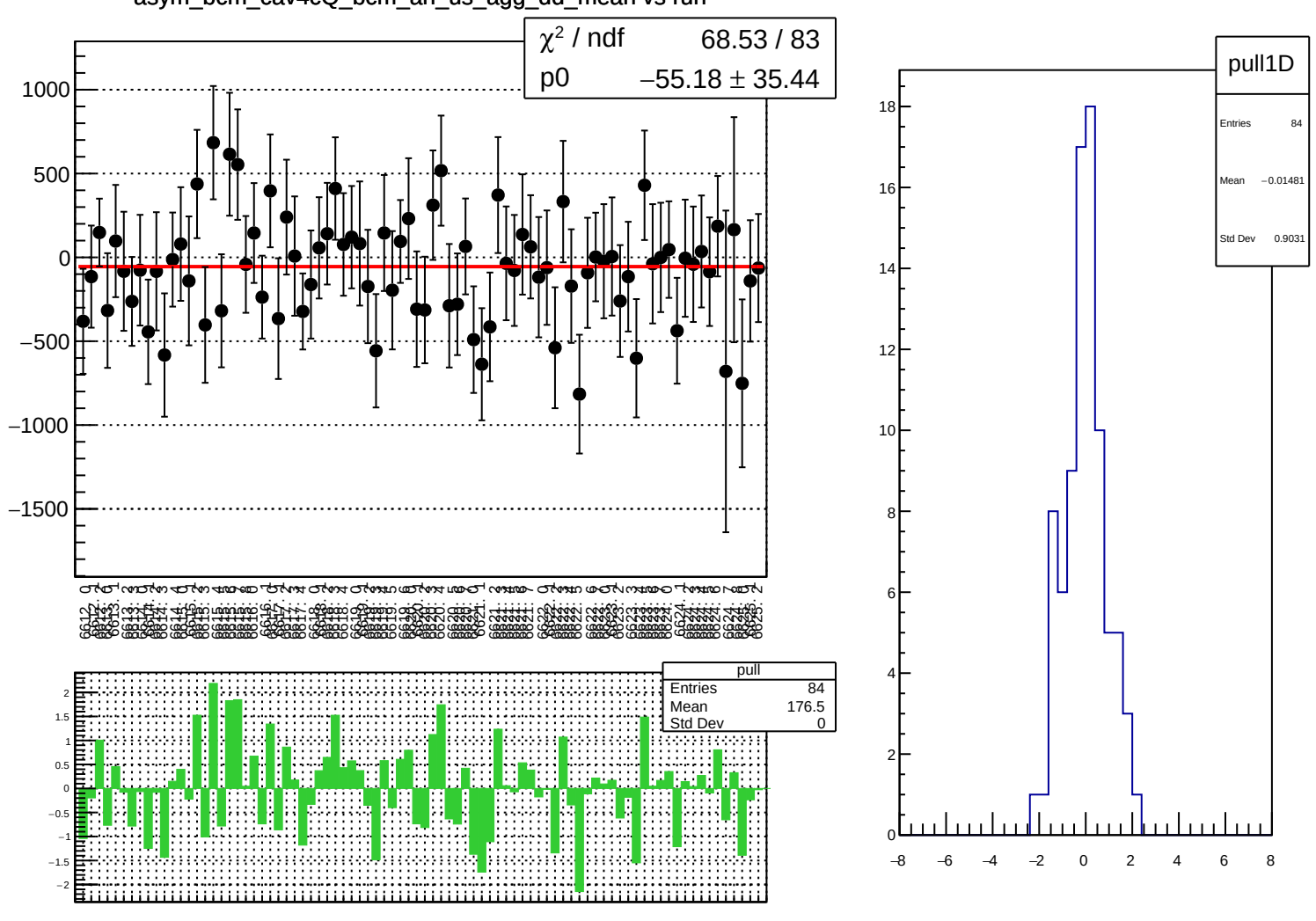

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 87.8 / 83
p0 28.12 ± 29.4
1000
500
0
−500
−1000
pull
Entries 84
Mean 2203
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.0009658
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

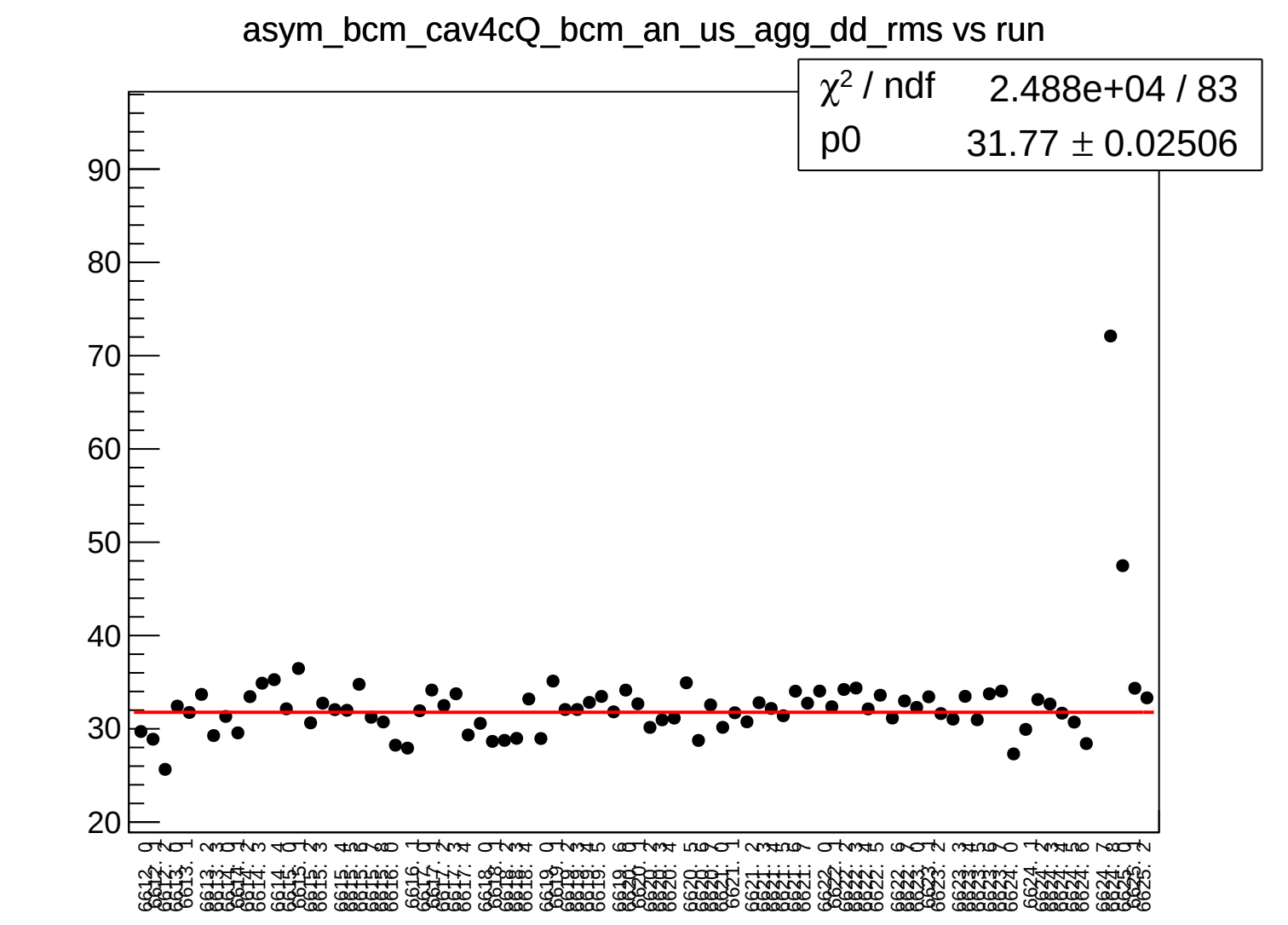

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4931 / 83
p0 26.52 ± 0.02079
31
30
29
28
27
26
25
24
23

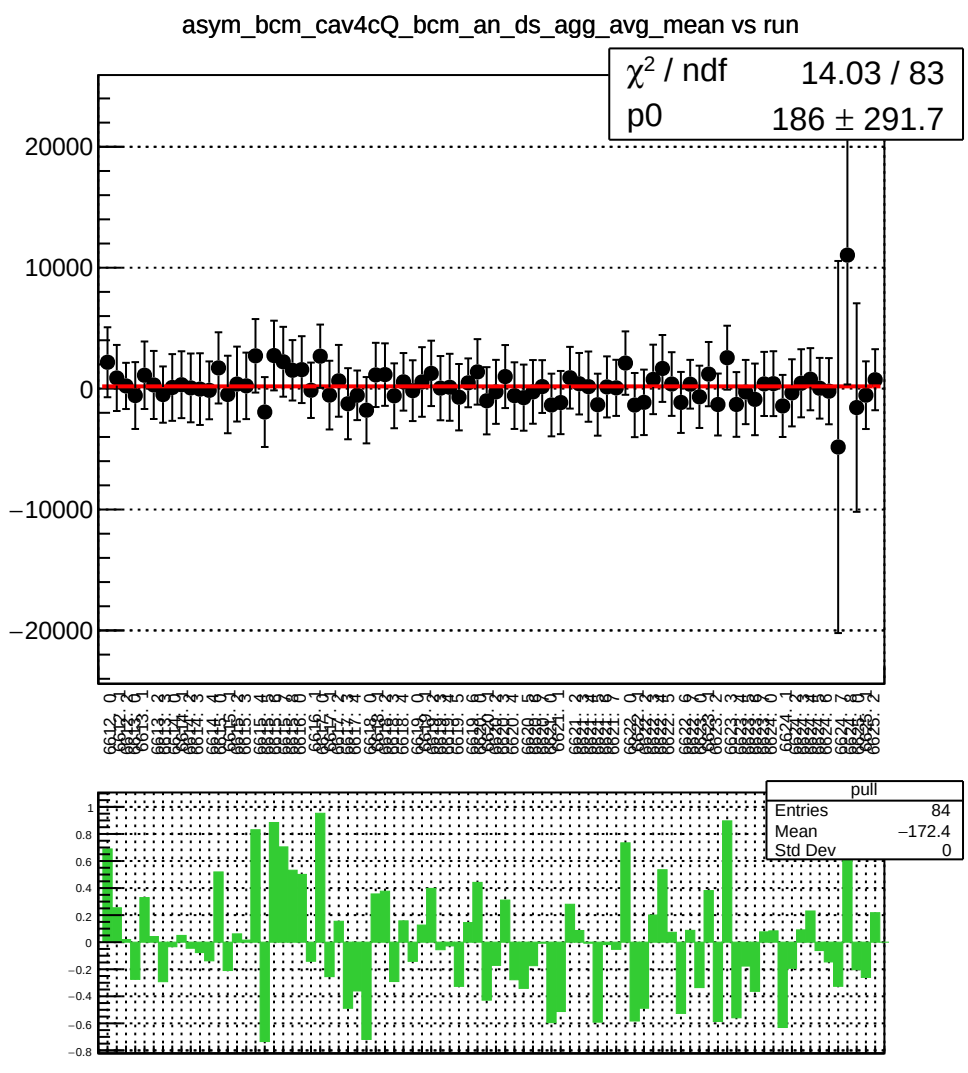

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 13.53 / 83
p0 209.3 ± 292.2
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −149.3
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

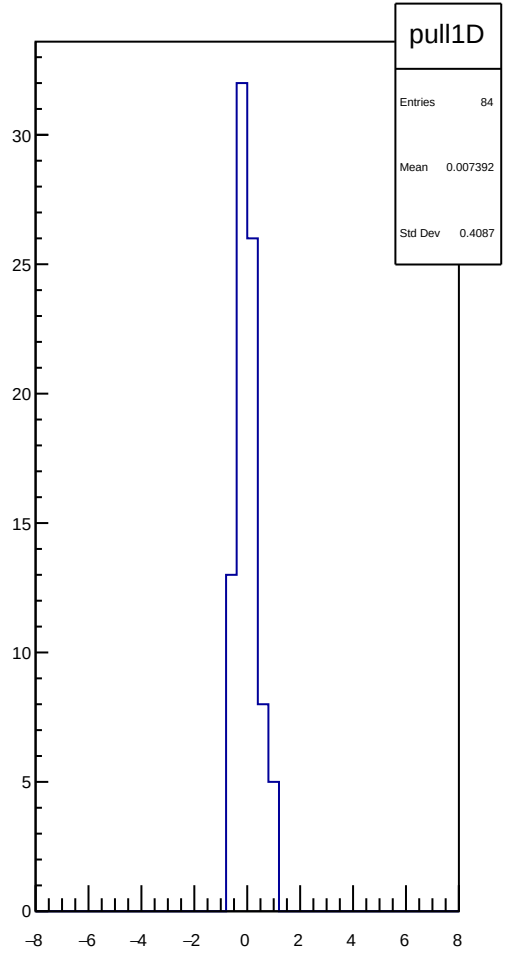

pull1D
Entries 84
Mean 0.007563
Std Dev 0.4013
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

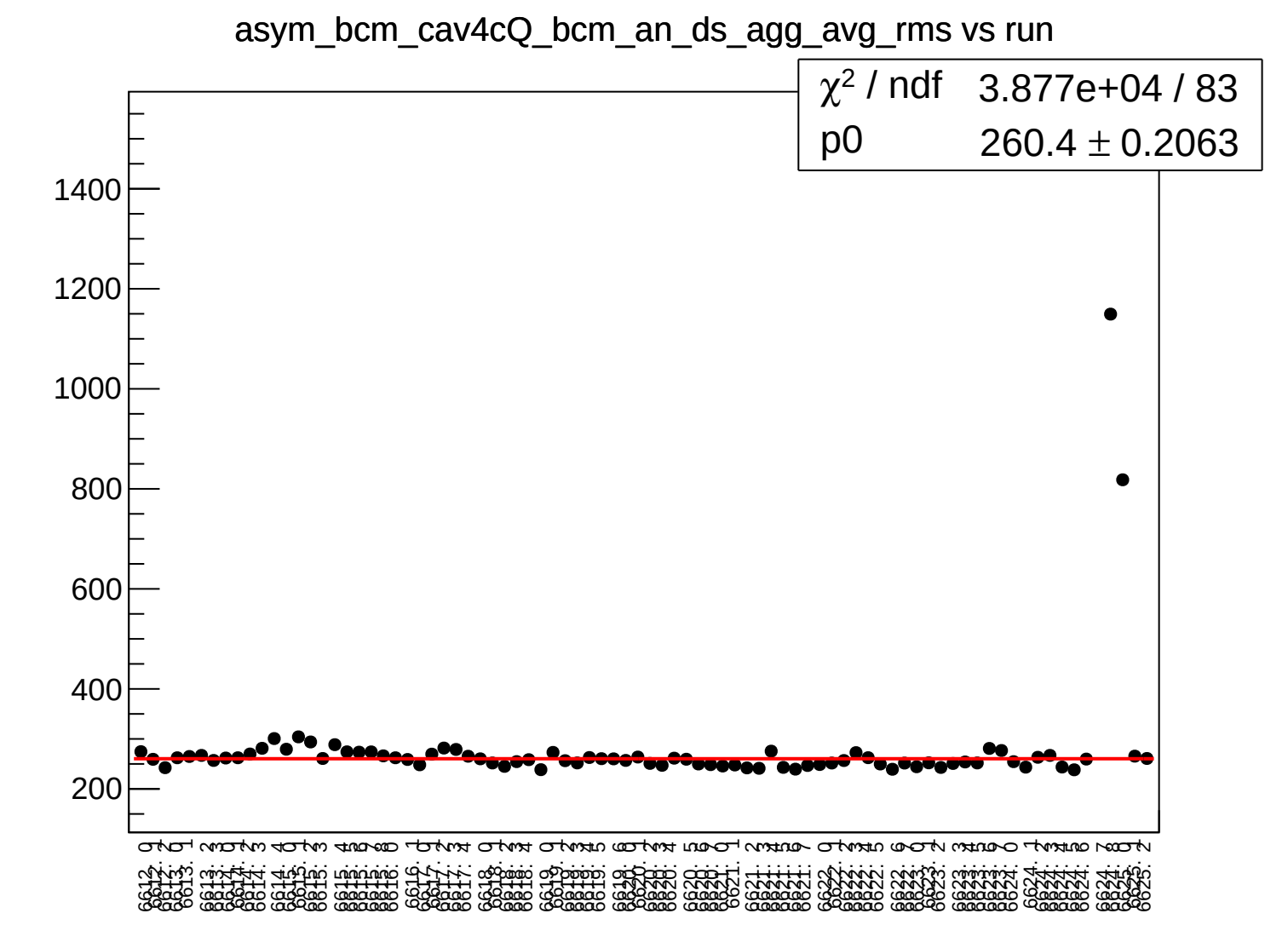

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.877e+04 / 83
p0 260.9 ± 0.2066
1400
1200
1000
800
600
400
200

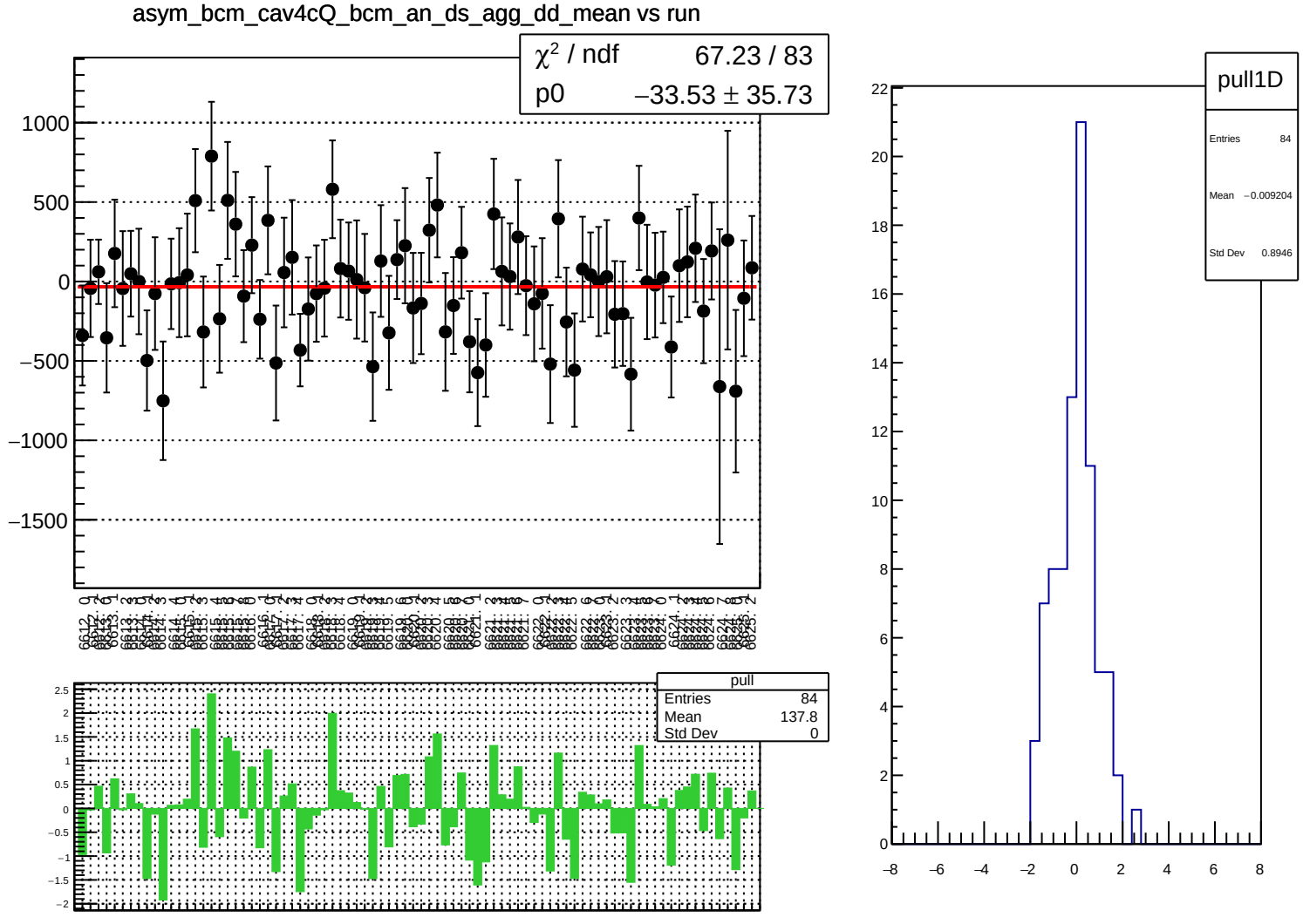

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 68.53 / 83
p0 −55.18 ± 35.44
pull
Entries 84
Mean 176.5
Std Dev 0
pull1D
Entries 84
Mean −0.01481
Std Dev 0.9031

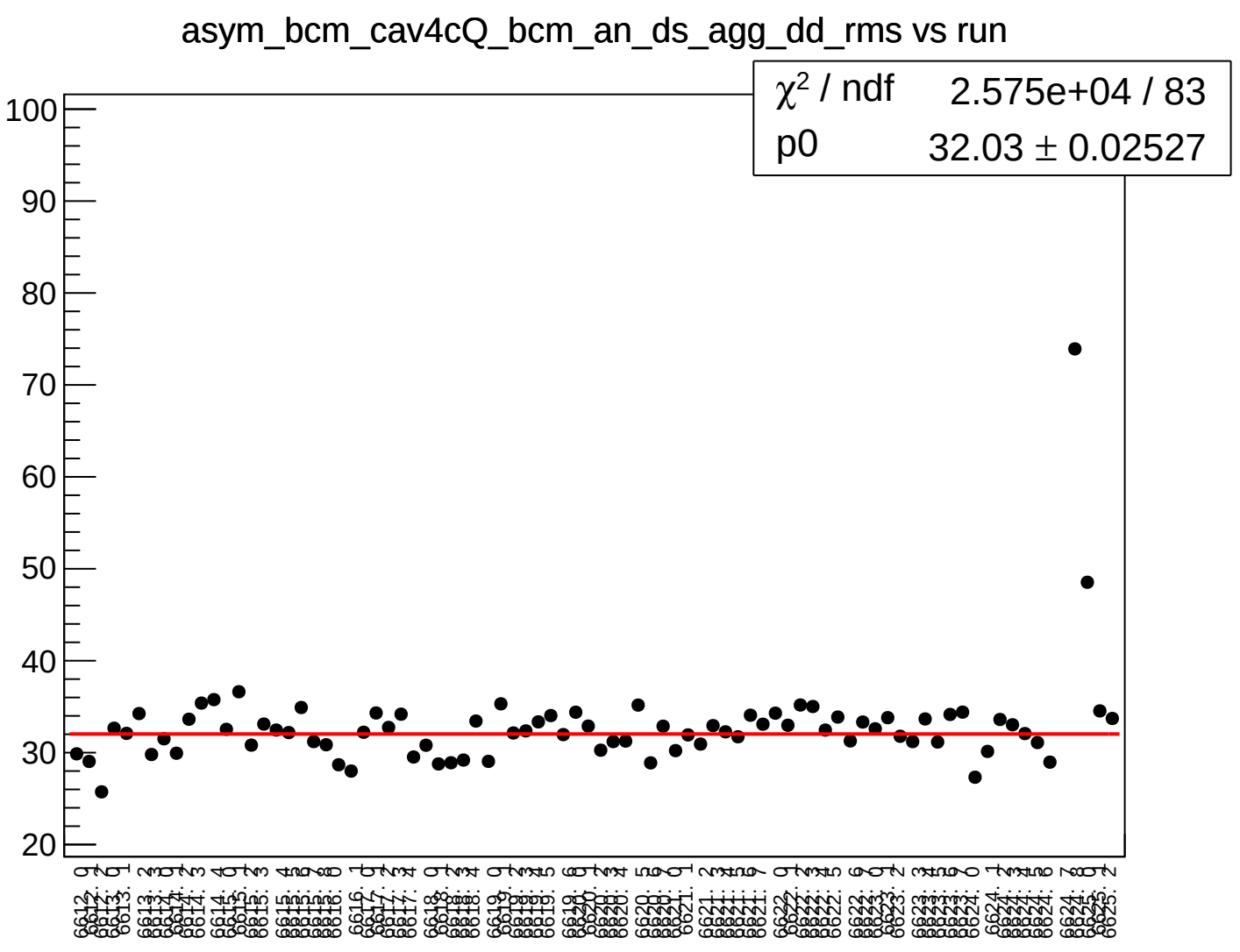

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2.488e+04 / 83
p0 31.77 ± 0.02506
90
80
70
60
50
40
30
20

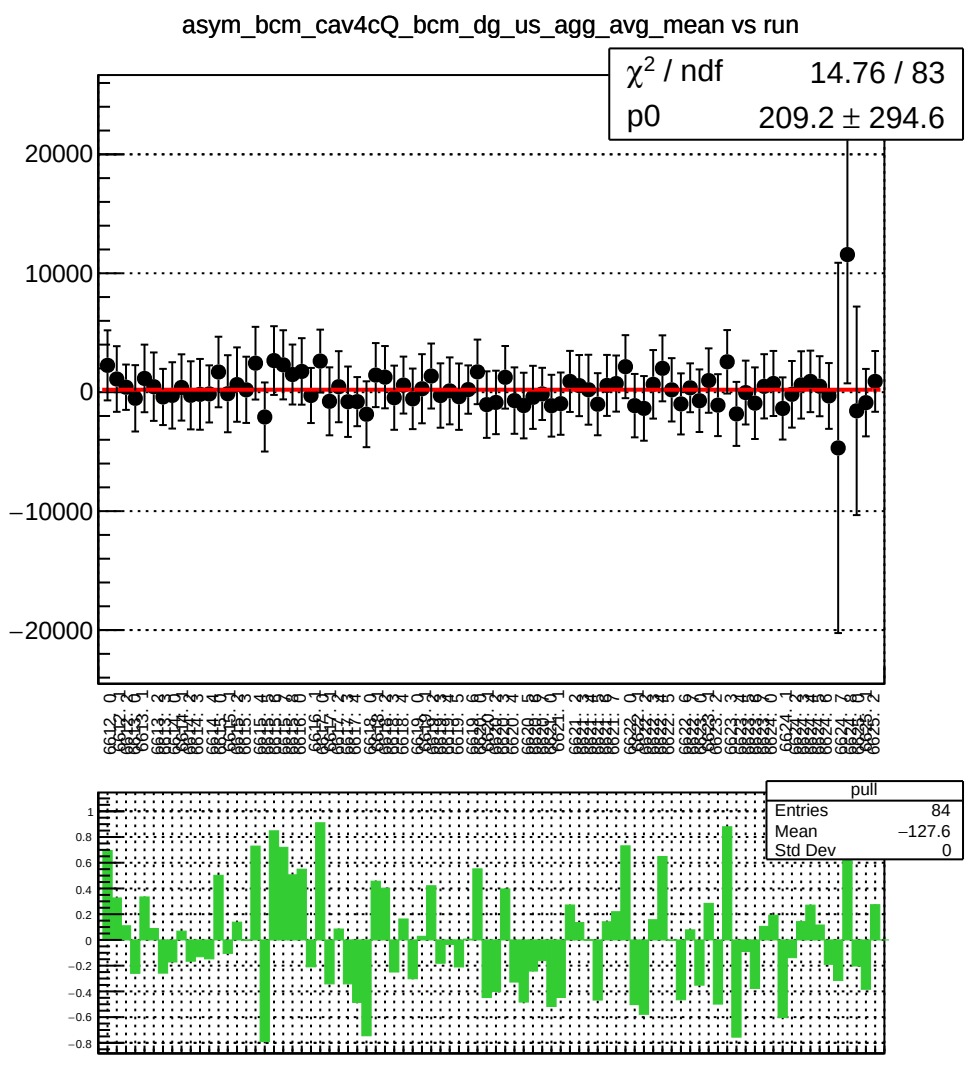

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.03 / 83
p0 186 ± 291.7
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −172.4
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

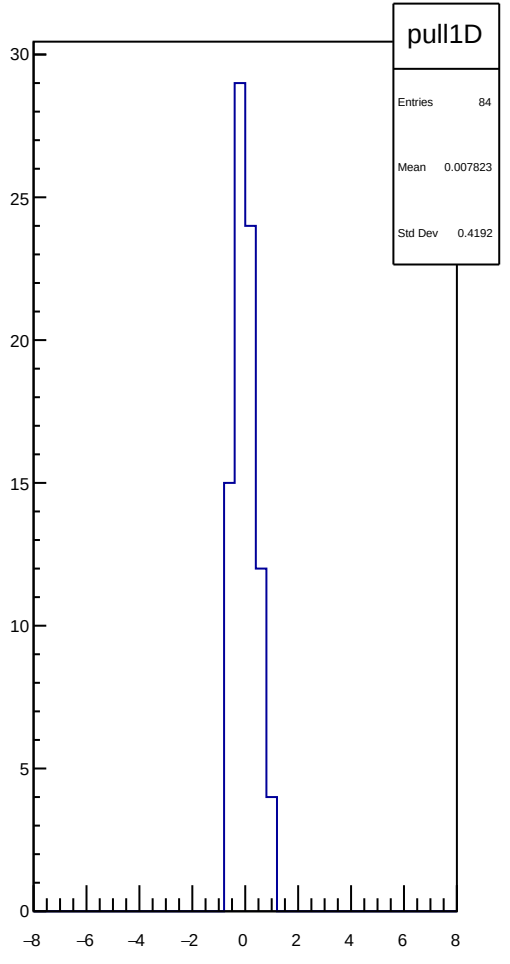

pull1D
Entries 84
Mean 0.007392
Std Dev 0.4087
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

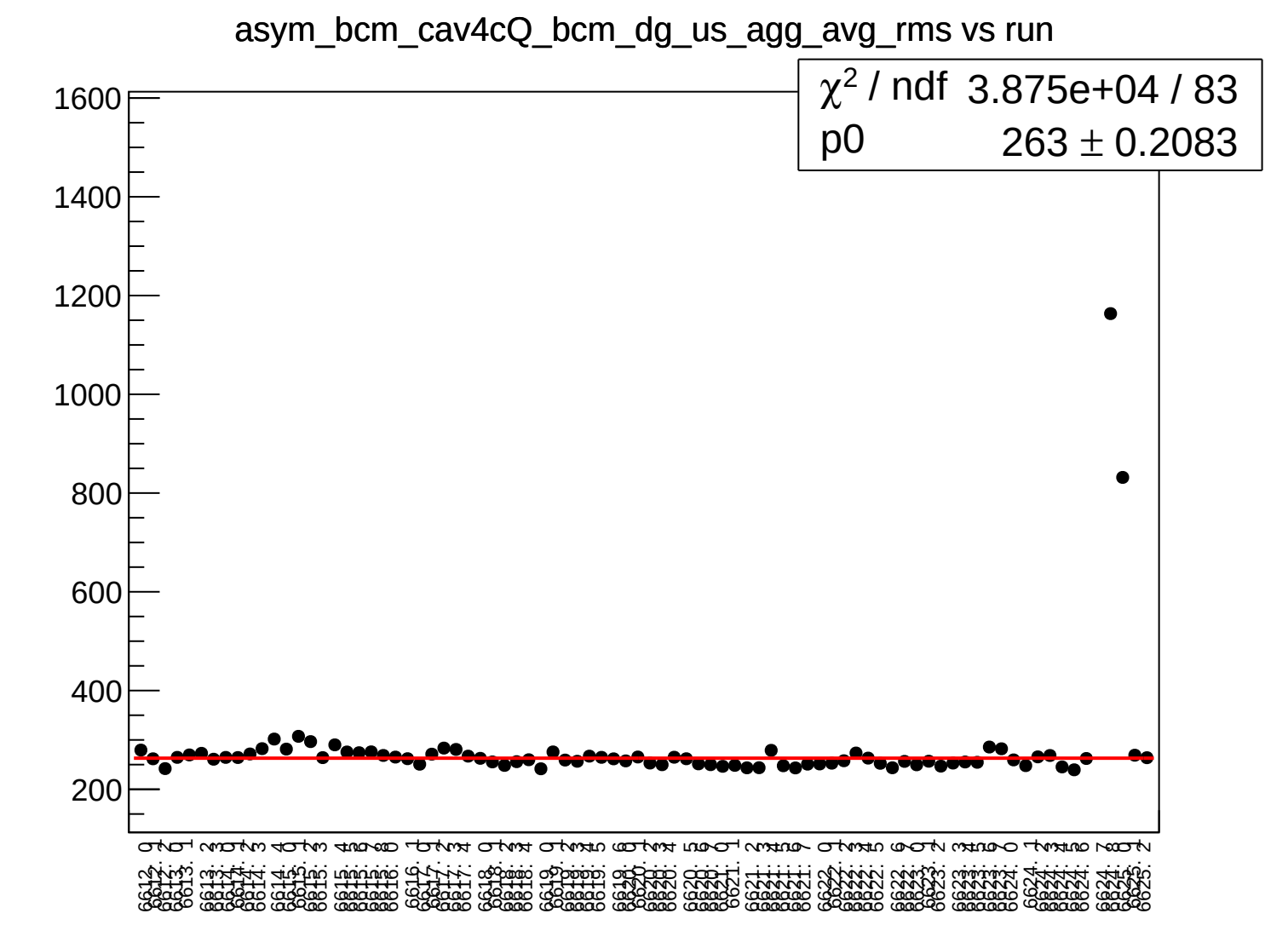

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.877e+04 / 83
p0 260.4 ± 0.2063
1400
1200
1000
800
600
400
200

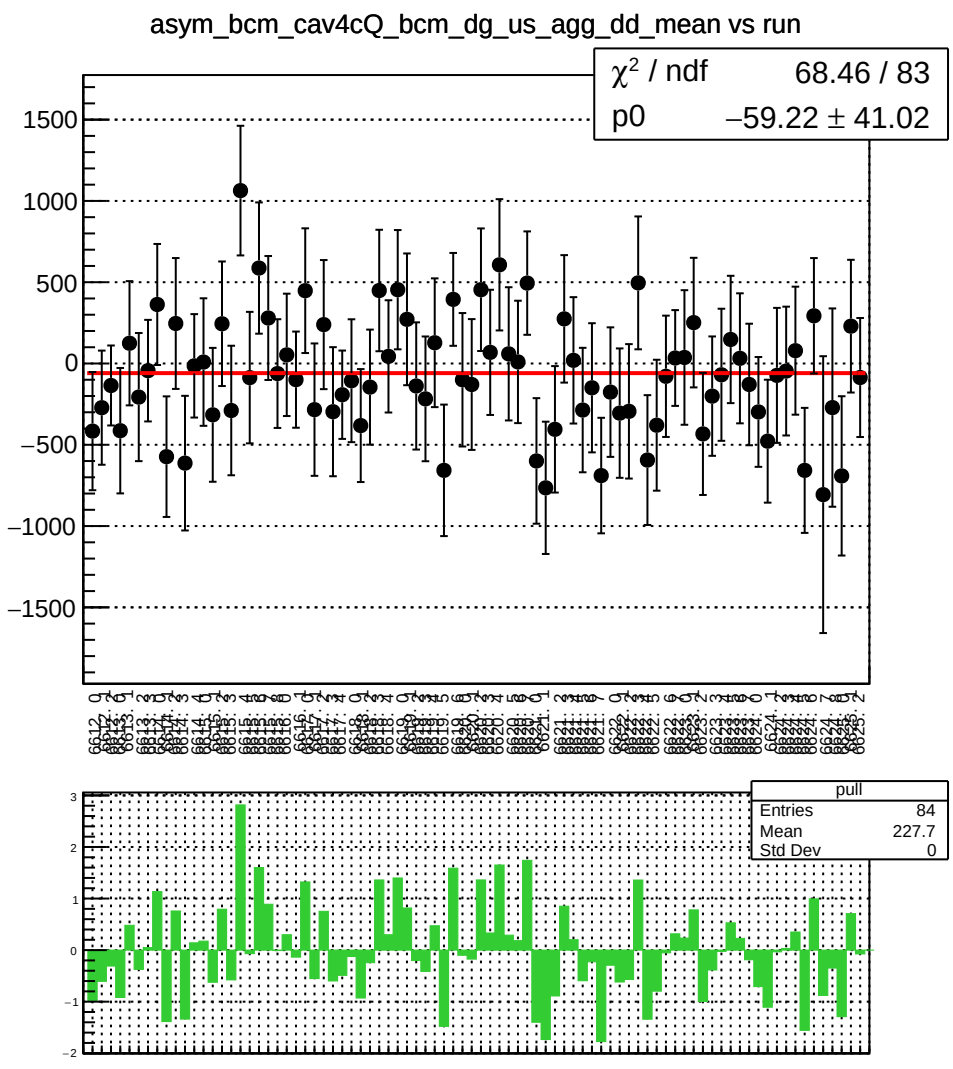

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 67.23 / 83
p0 −33.53 ± 35.73
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean 137.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.009204
Std Dev 0.8946
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

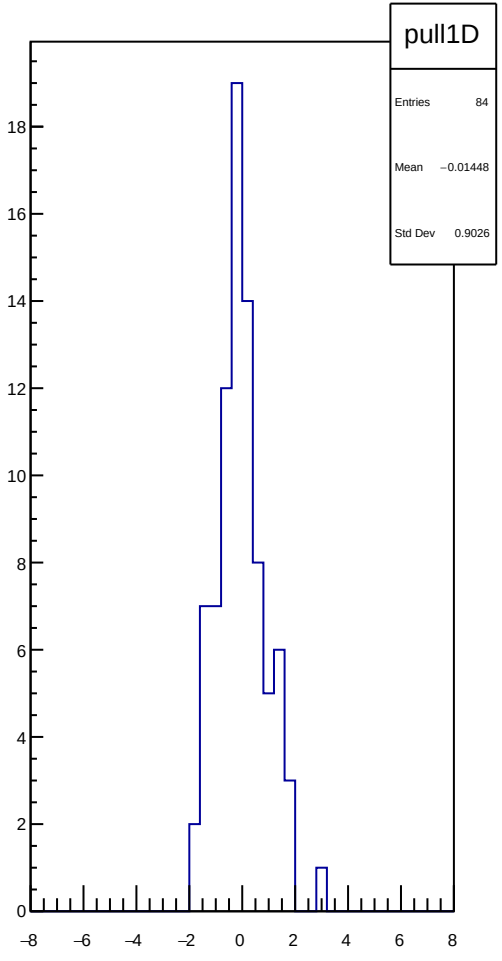

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.575e+04 / 83
p0 32.03 ± 0.02527
100
90
80
70
60
50
40
30
20

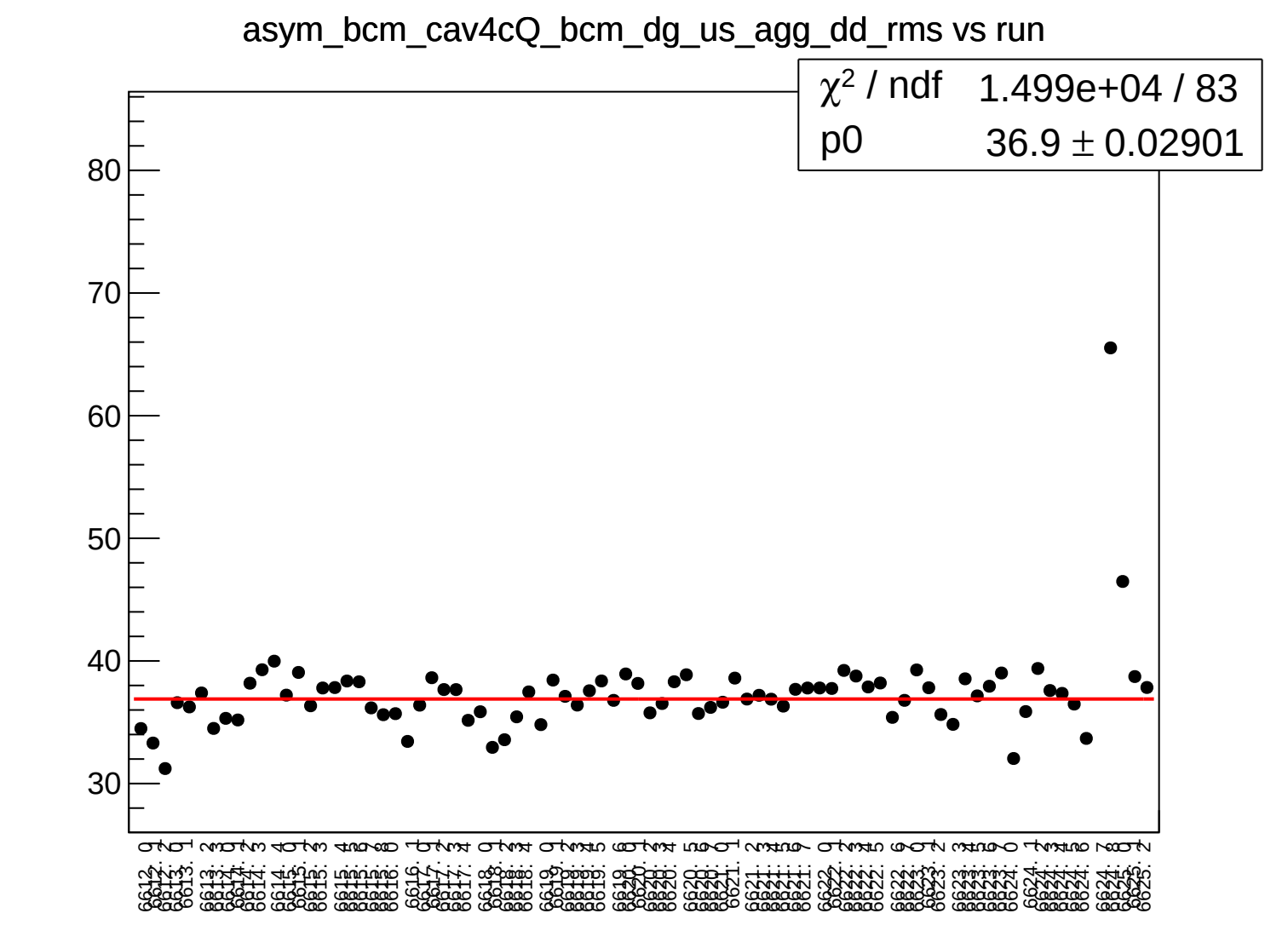

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 14.76 / 83
p0 209.2 ± 294.6
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −127.6
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

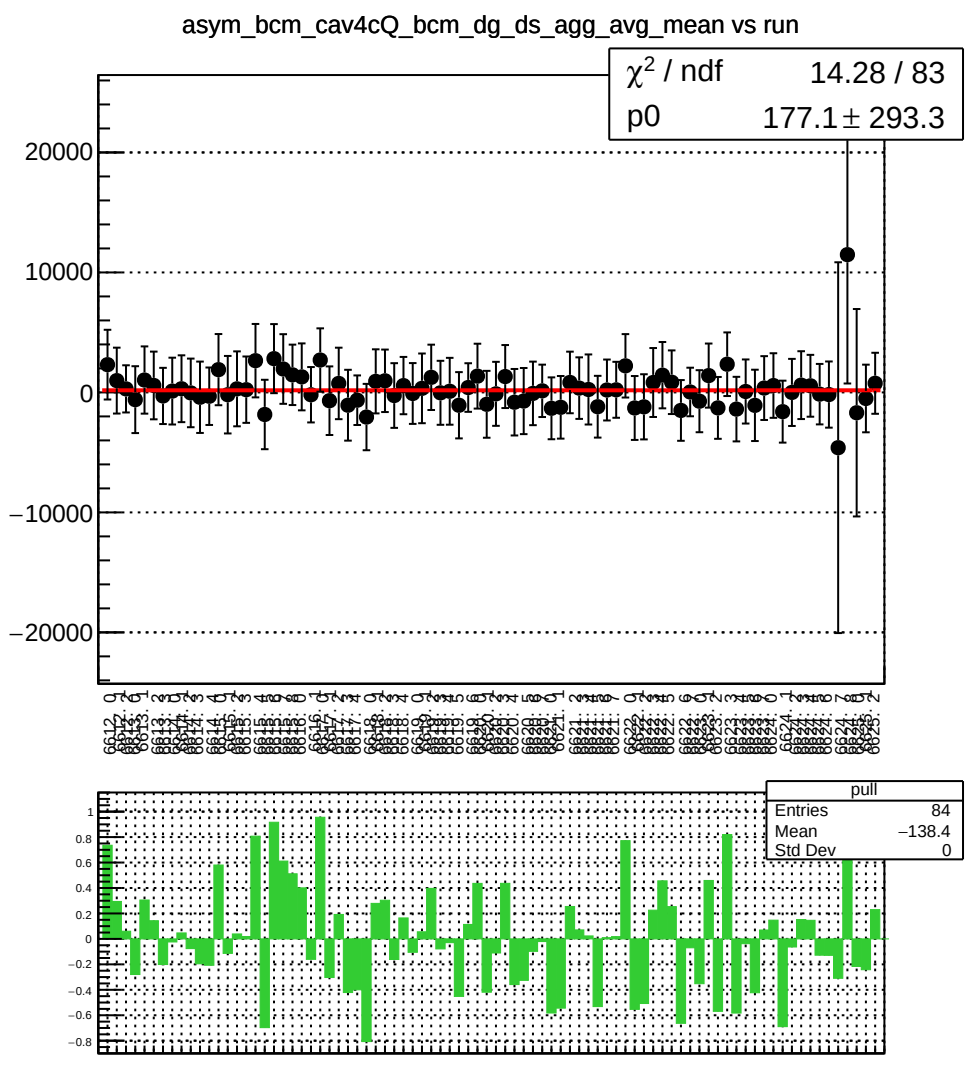

pull1D
Entries 84
Mean 0.007823
Std Dev 0.4192
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

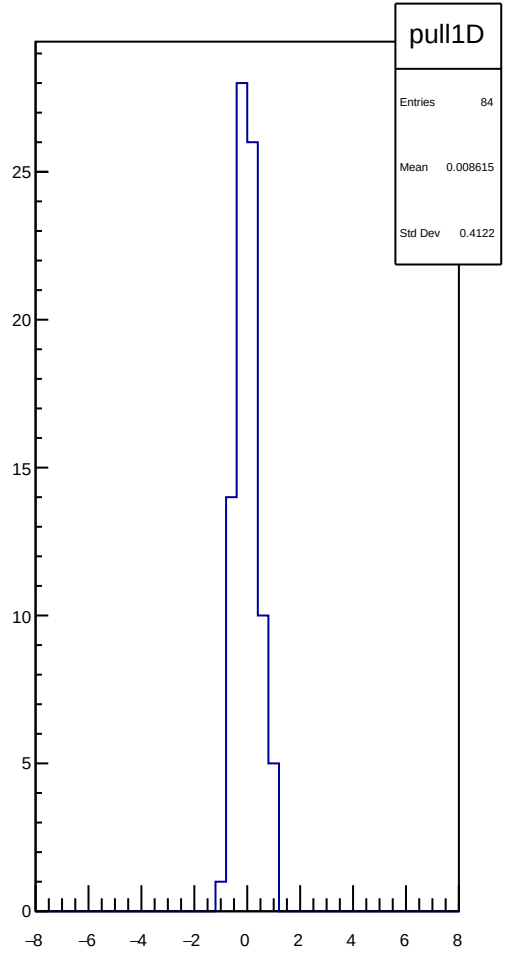

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3.875e+04 / 83
p0 263 ± 0.2083
1600
1400
1200
1000
800
600
400
200

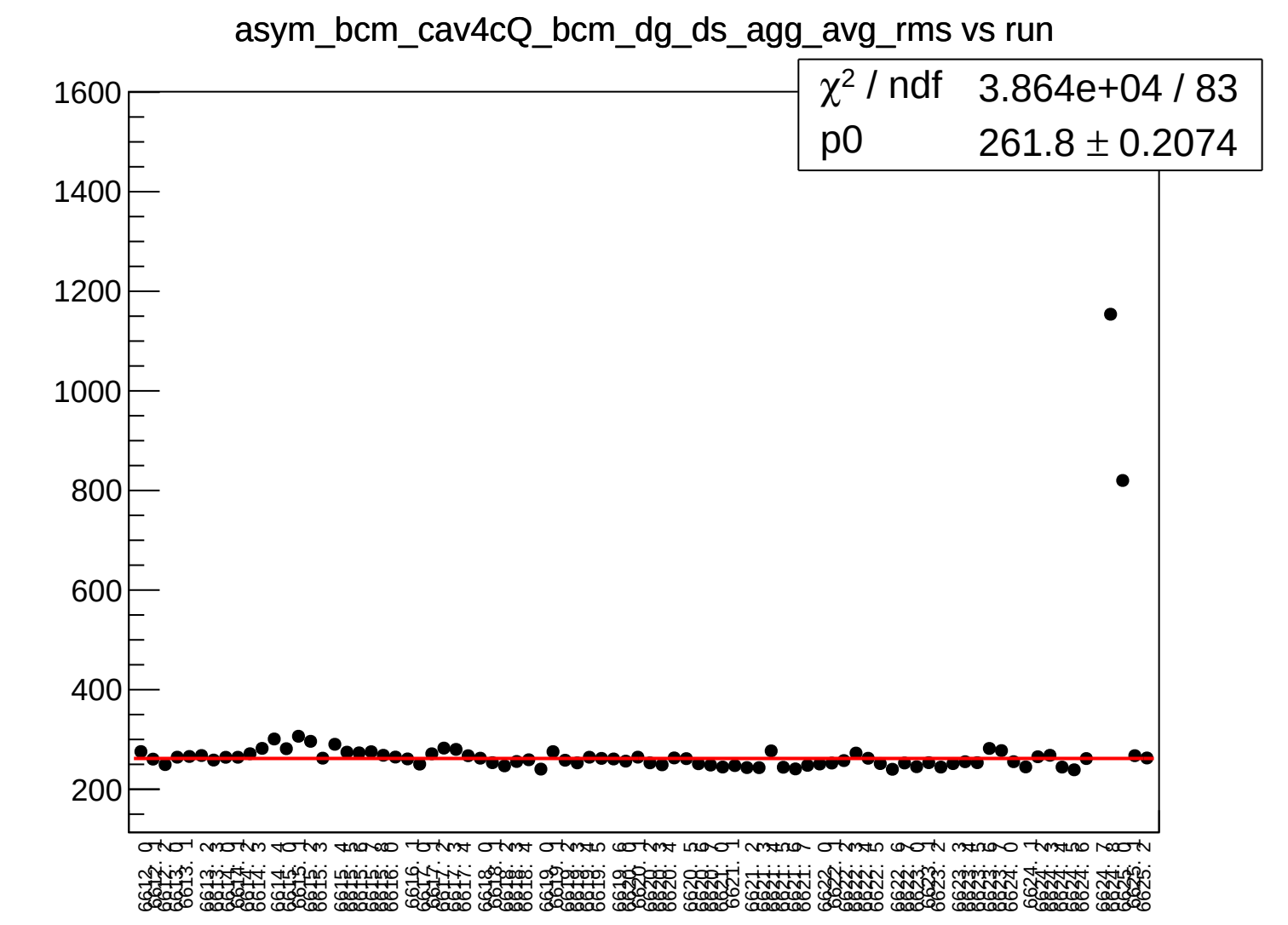

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 68.46 / 83
p0 −59.22 ± 41.02
pull
Entries 84
Mean 227.7
Std Dev 0

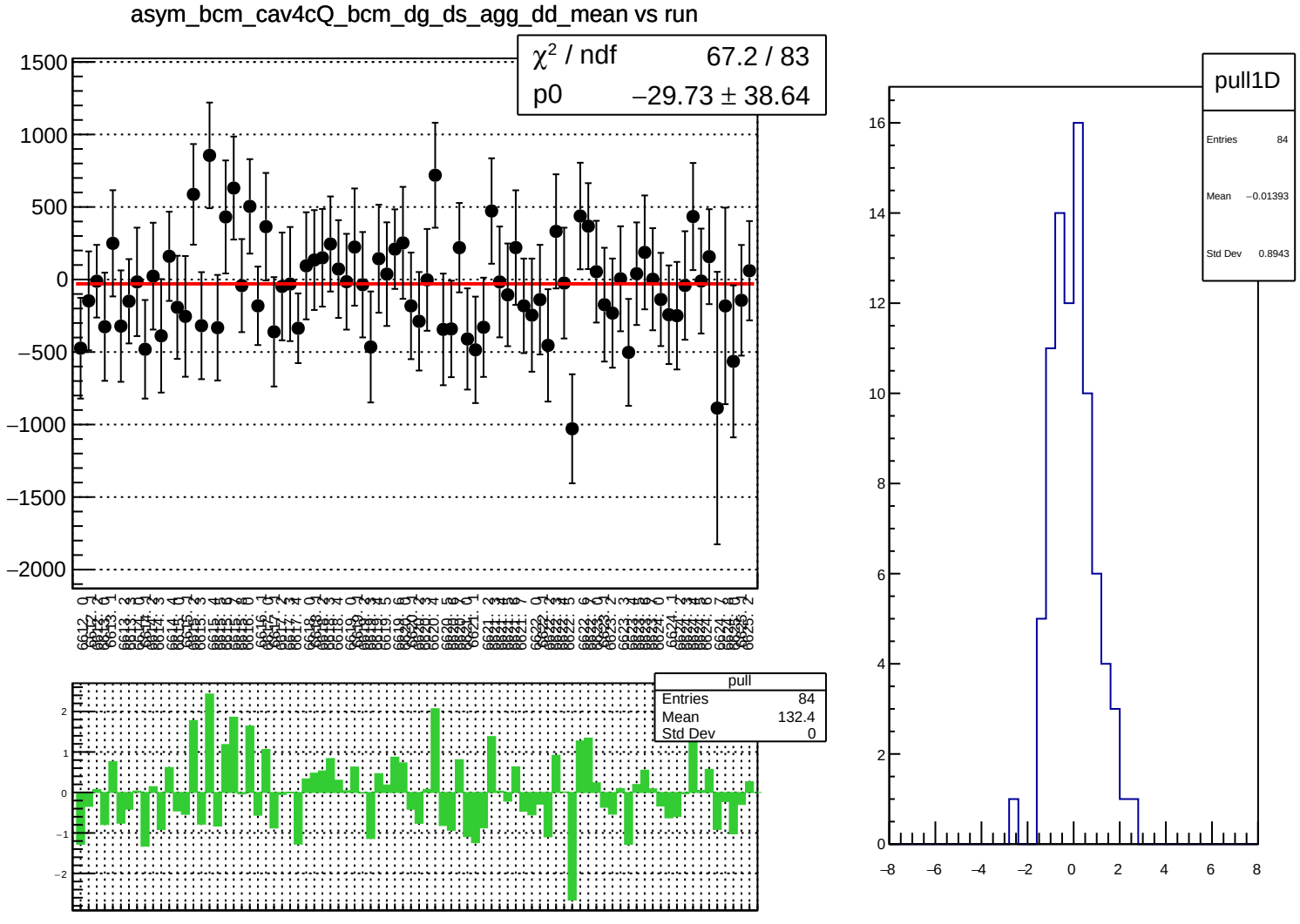

pull1D
Entries 84
Mean −0.01448
Std Dev 0.9026

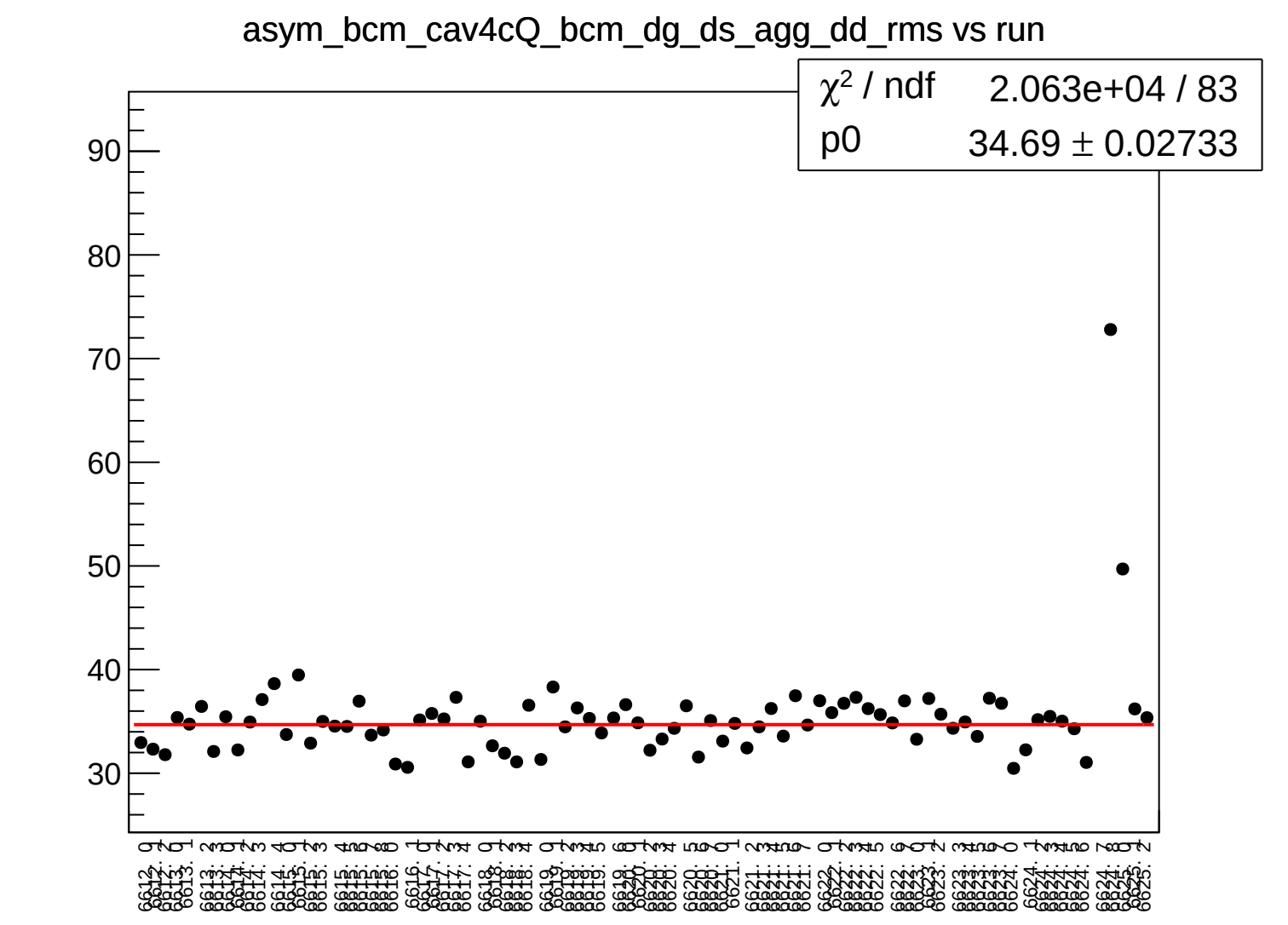

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1.499e+04 / 83
p0 36.9 ± 0.02901
80
70
60
50
40
30

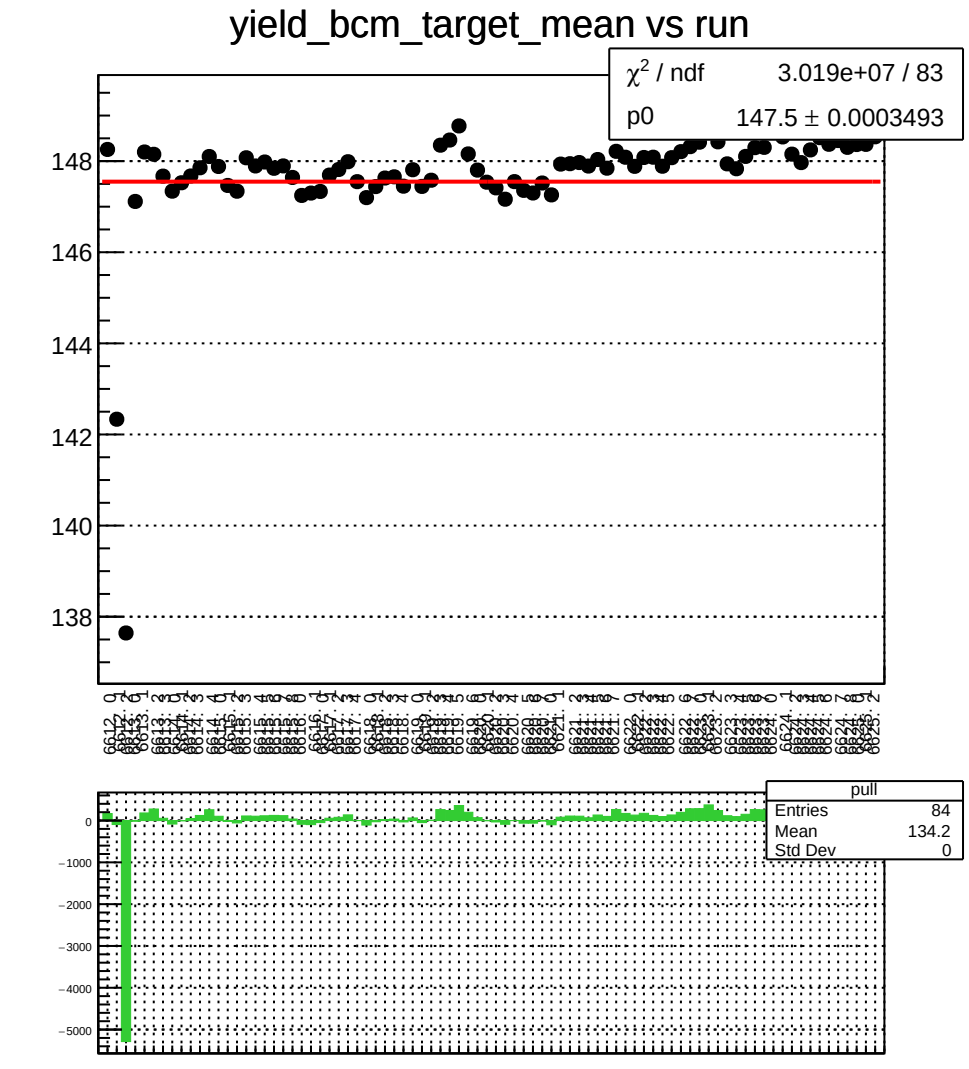

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 14.28 / 83
p0 177.1 ± 293.3
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −138.4
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

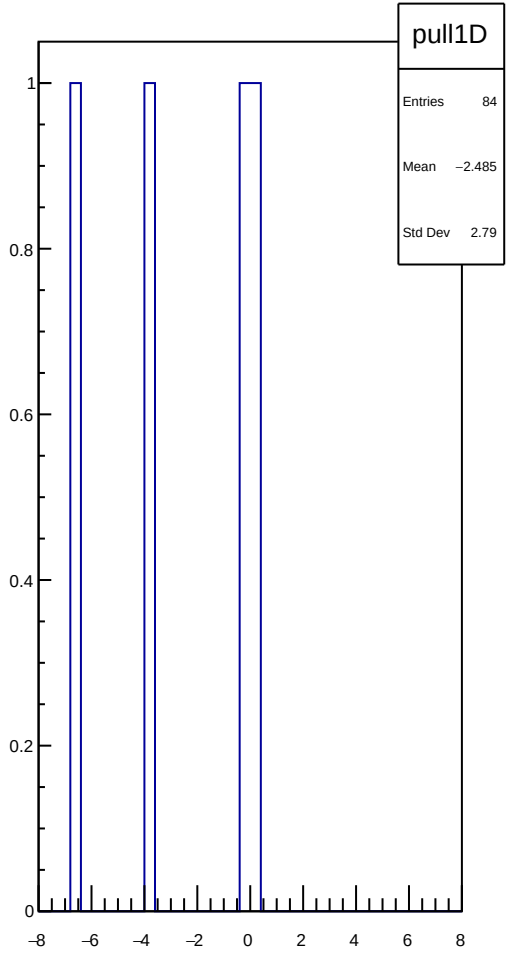

pull1D
Entries 84
Mean 0.008615
Std Dev 0.4122
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.864e+04 / 83
p0 261.8 ± 0.2074
1600
1400
1200
1000
800
600
400
200

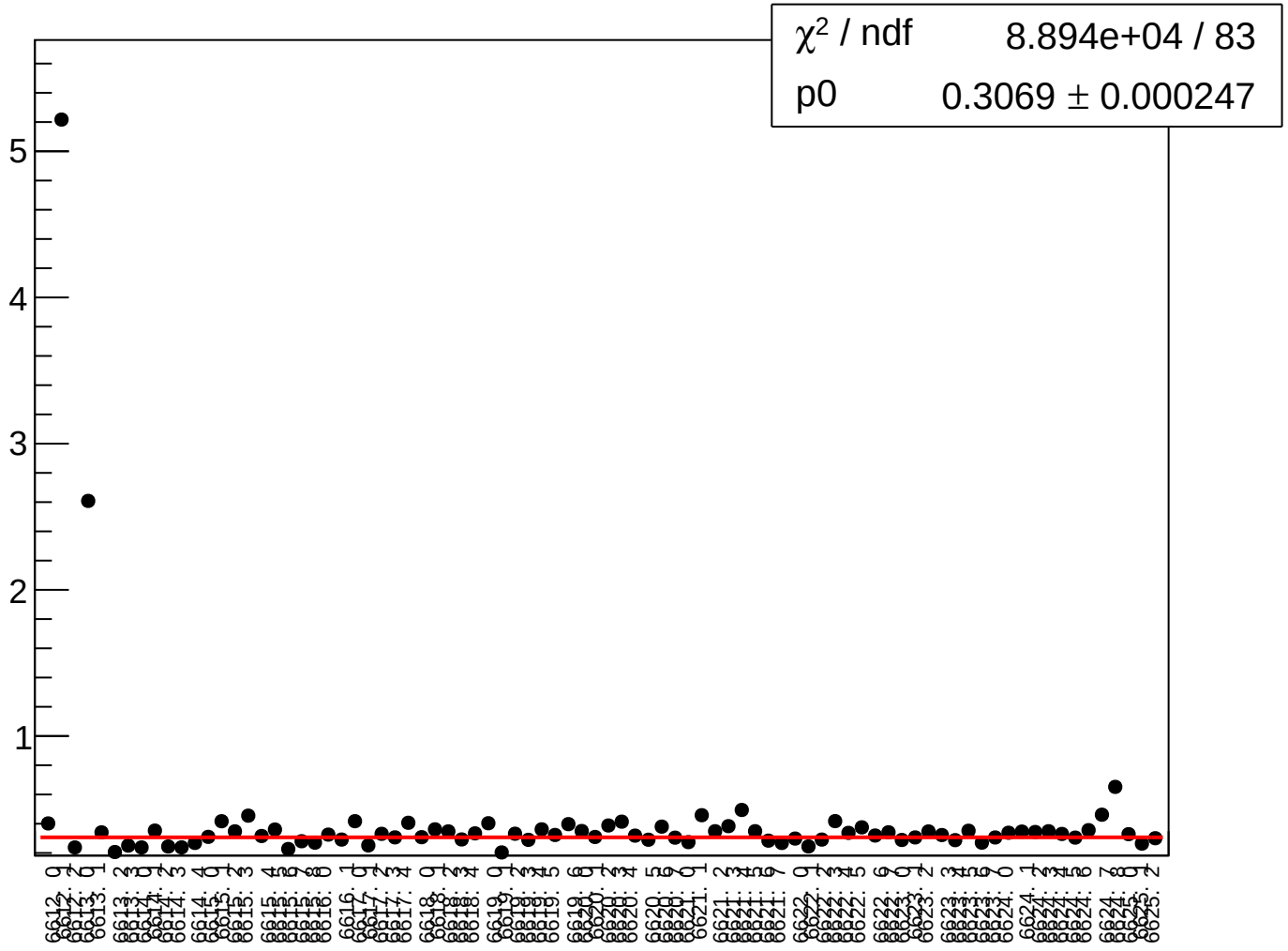

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 67.2 / 83
p0 −29.73 ± 38.64
pull
Entries 84
Mean 132.4
Std Dev 0
pull1D
Entries 84
Mean −0.01393
Std Dev 0.8943

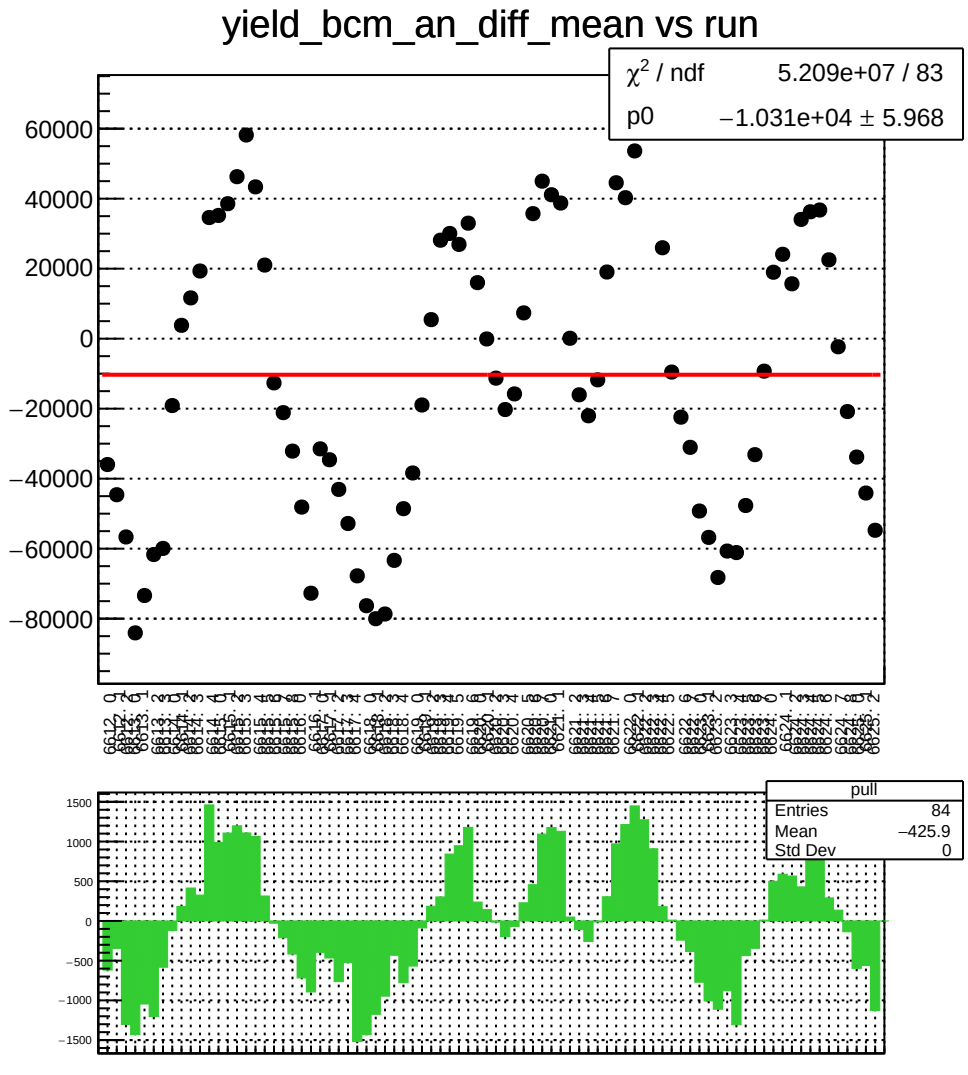

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2.063e+04 / 83
p0 34.69 ± 0.02733
90
80
70
60
50
40
30

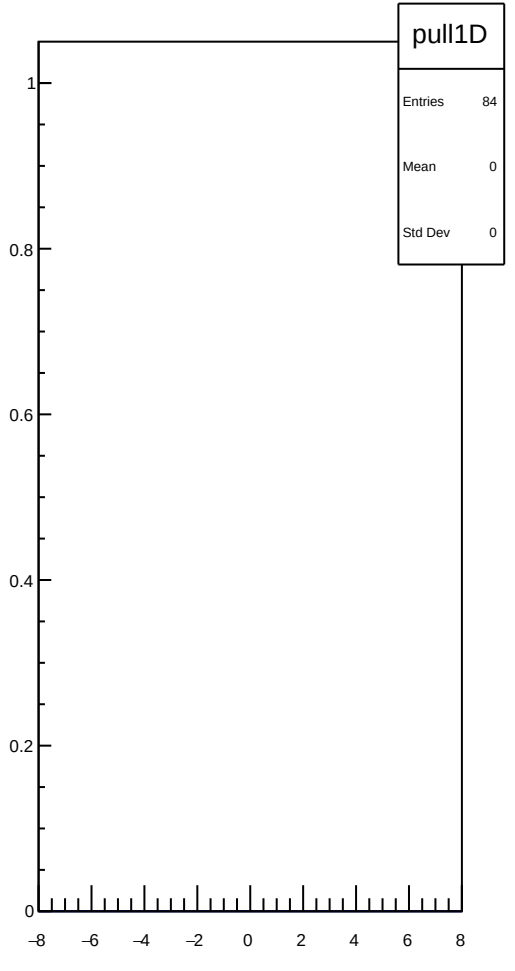

yield_bcm_target_mean vs run
χ² / ndf 3.019e+07 / 83
p0 147.5 ± 0.0003493
148
146
144
142
140
138
pull
Entries 84
Mean 134.2
Std Dev 0
0
−1000
−2000
−3000
−4000
−5000

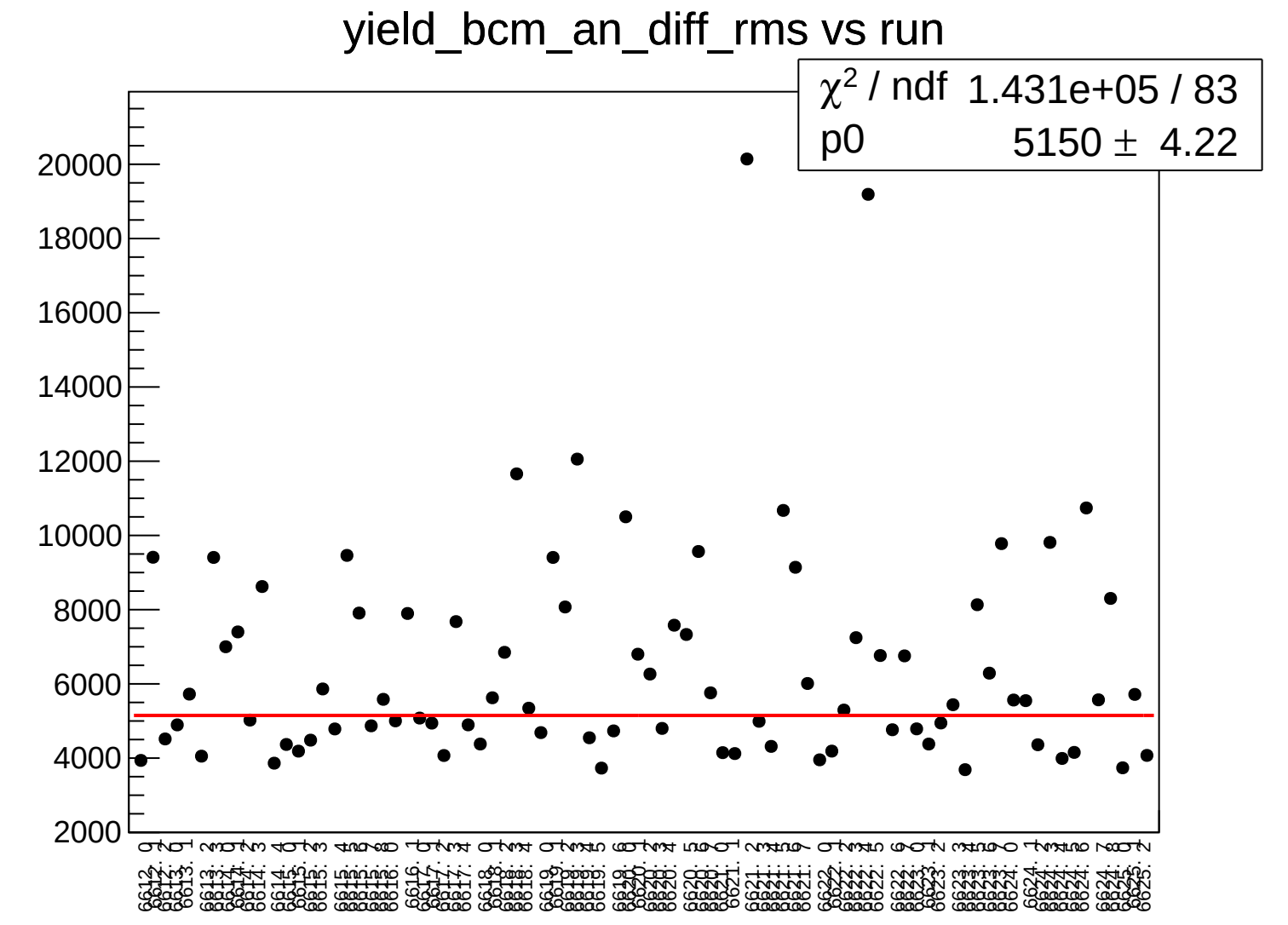

pull1D
Entries 84
Mean −2.485
Std Dev 2.79
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

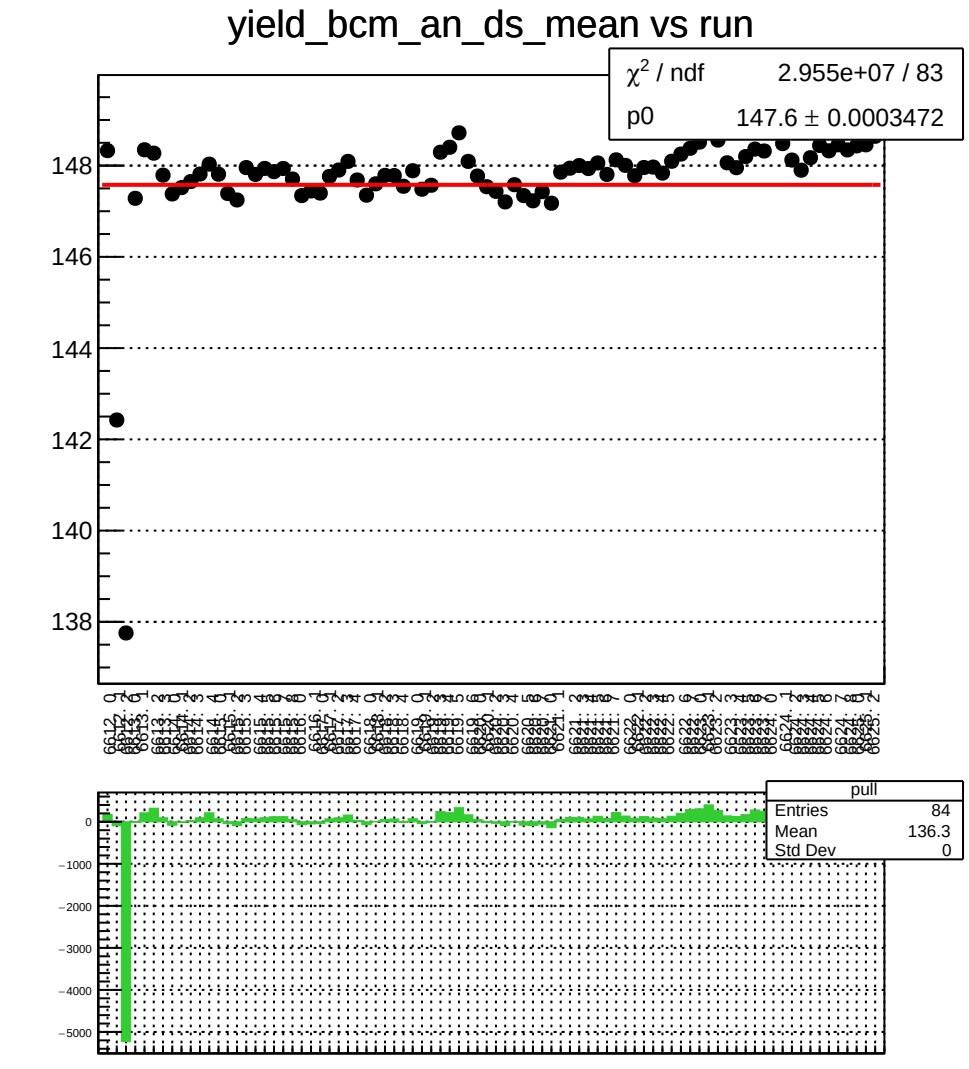
yield_bcm_target_rms vs run

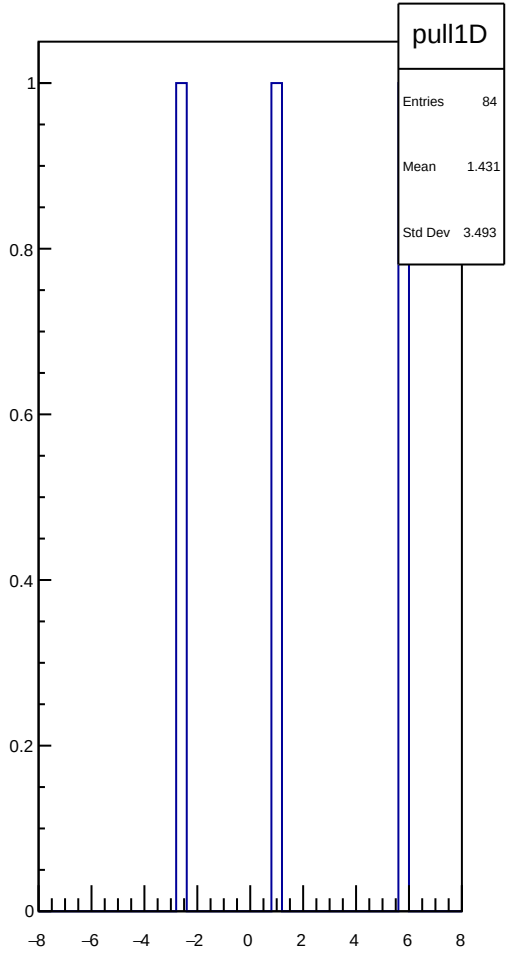


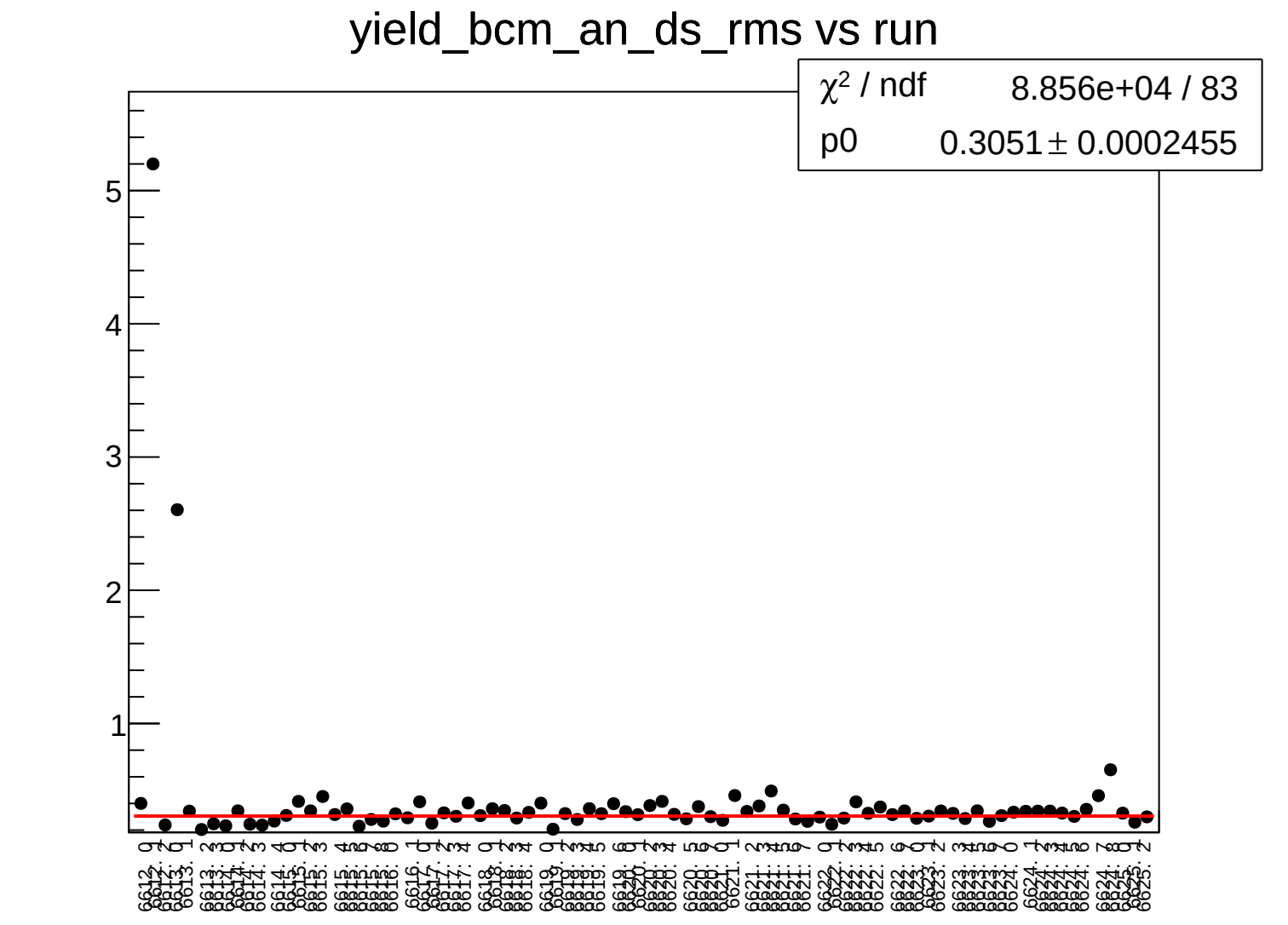

yield_bcm_an_diff_mean vs run
χ² / ndf 5.209e+07 / 83
p0 −1.031e+04 ± 5.968
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −425.9
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

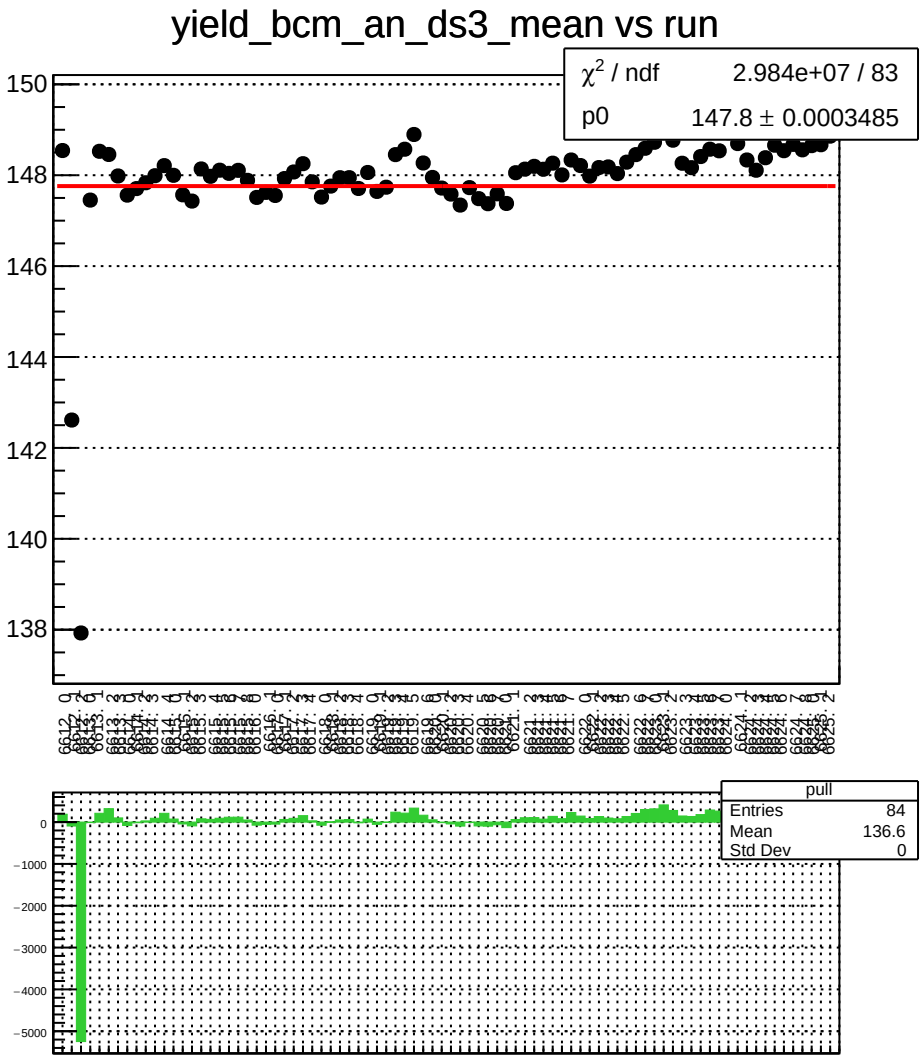

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

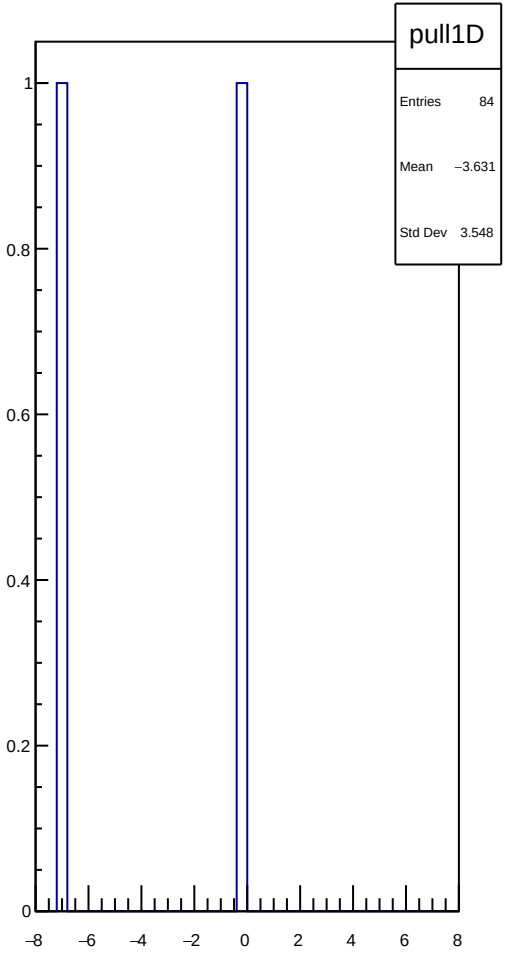

yield_bcm_an_diff_rms vs run
χ² / ndf 1.431e+05 / 83
p0 5150 ± 4.22
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

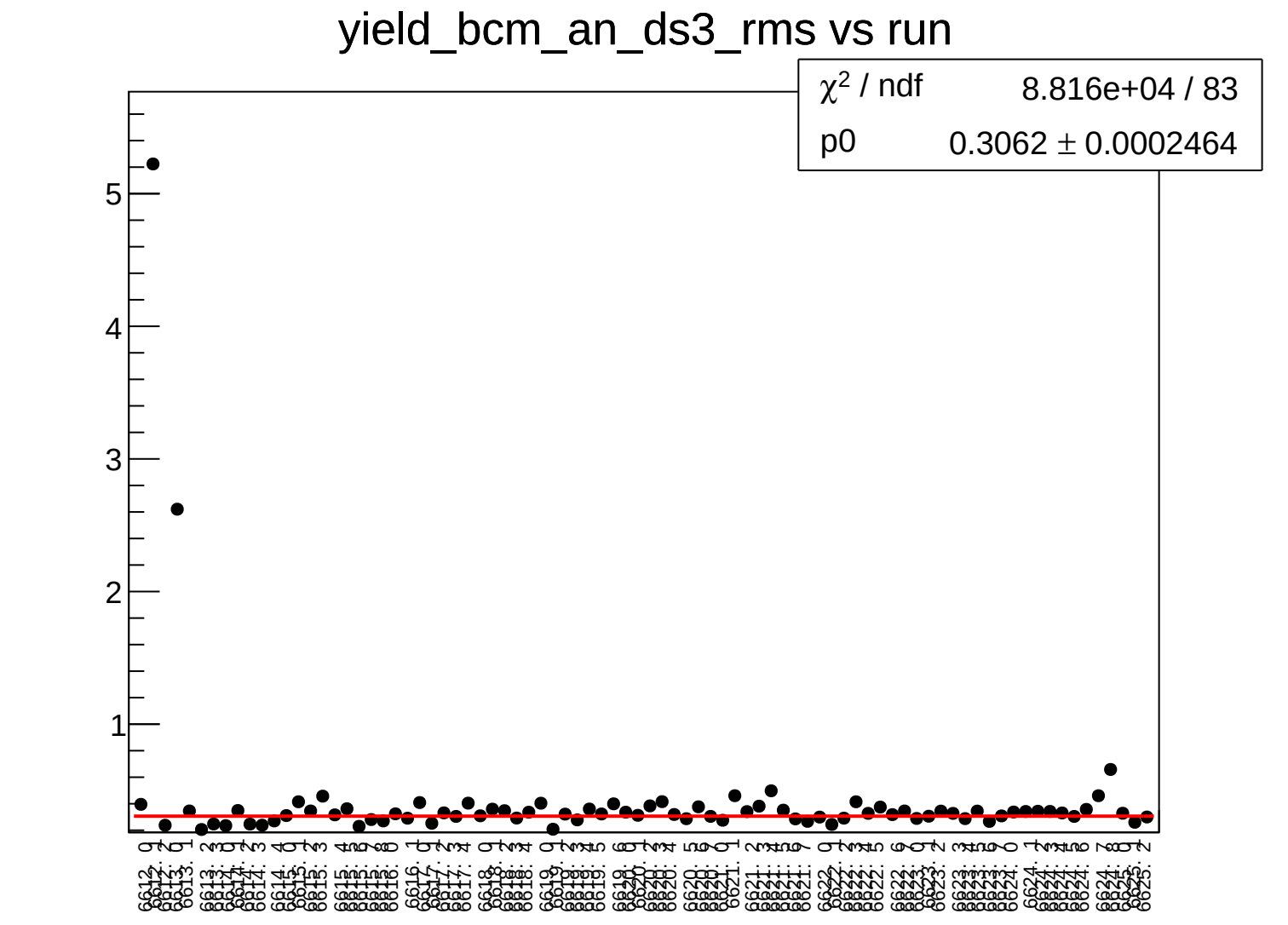

yield_bcm_an_ds_mean vs run
χ² / ndf 2.955e+07 / 83
p0 147.6 ± 0.0003472
148
146
144
142
140
138
pull
Entries 84
Mean 136.3
Std Dev 0
0
−1000
−2000
−3000
−4000
−5000

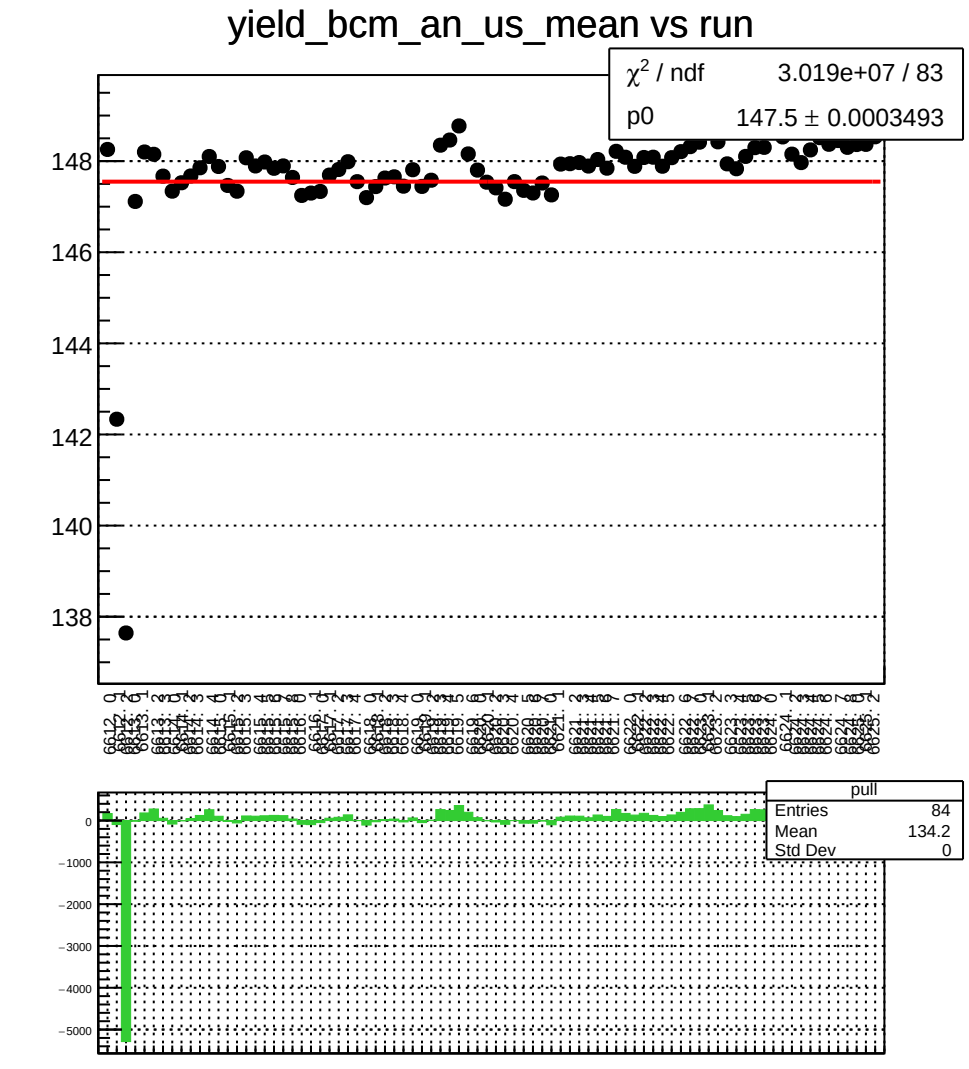

pull1D
Entries 84
Mean 1.431
Std Dev 3.493
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

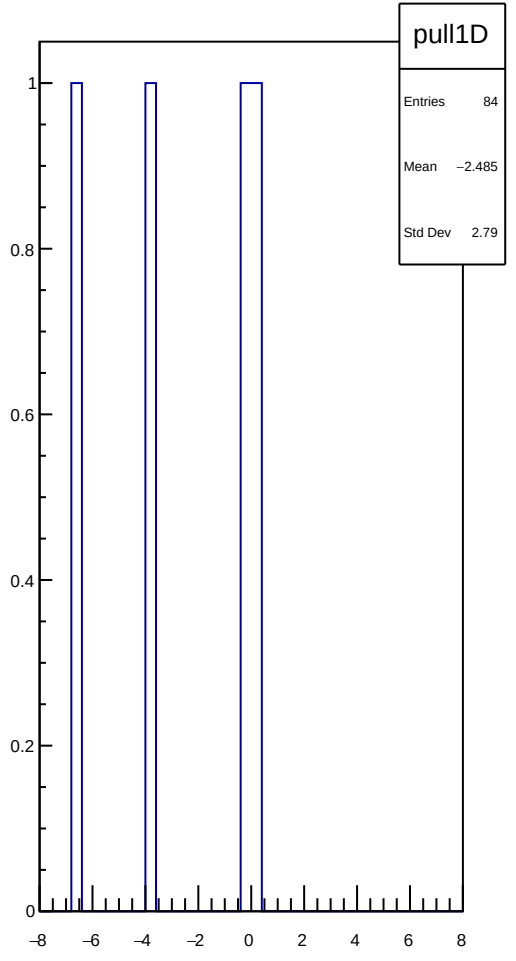

yield_bcm_an_ds_rms vs run
χ² / ndf 8.856e+04 / 83
p0 0.3051 ± 0.0002455
5
4
3
2
1

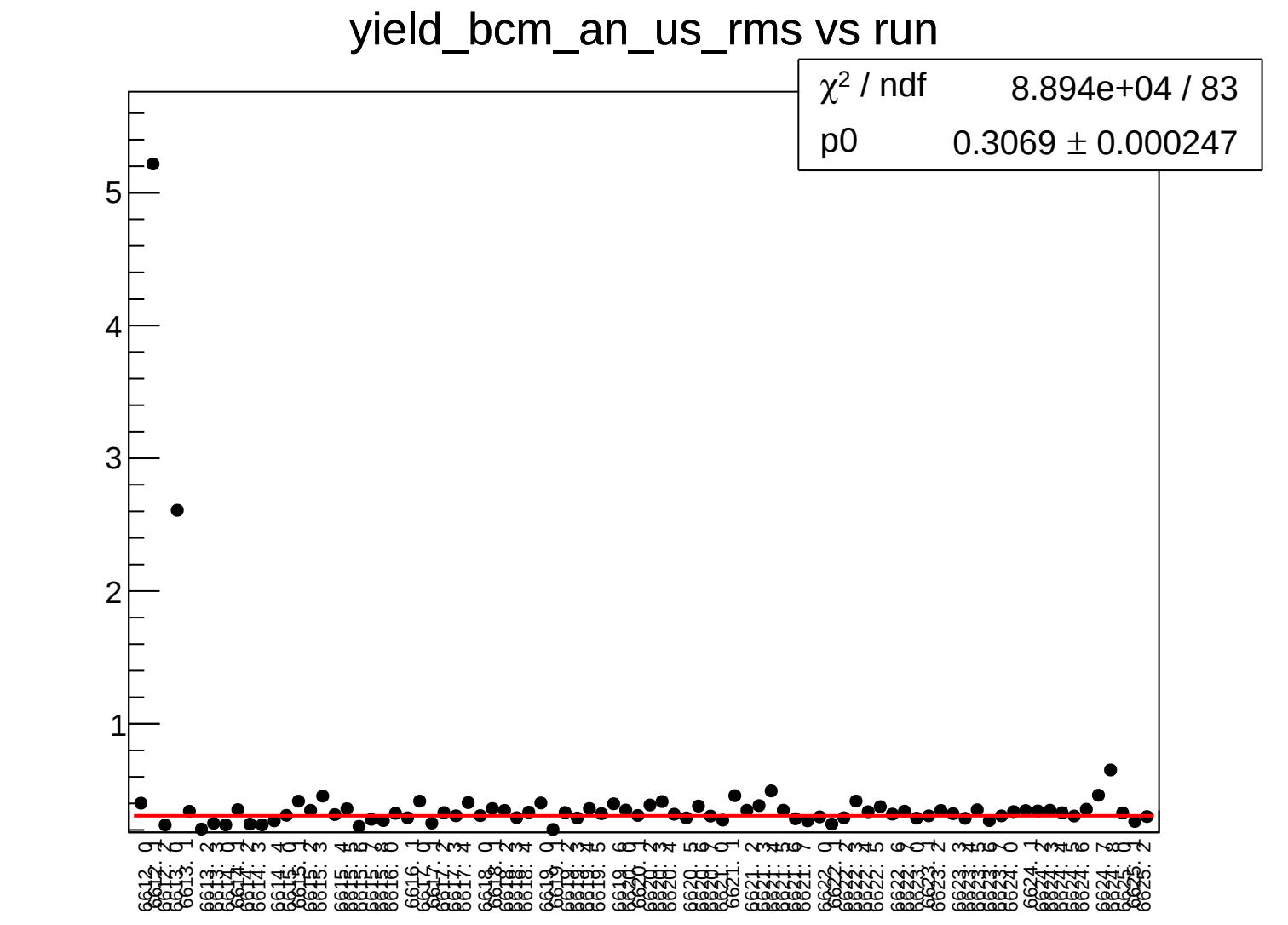

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.984e+07 / 83
p0 147.8 ± 0.0003485
150
148
146
144
142
140
138
pull
Entries 84
Mean 136.6
Std Dev 0
0
−1000
−2000
−3000
−4000
−5000

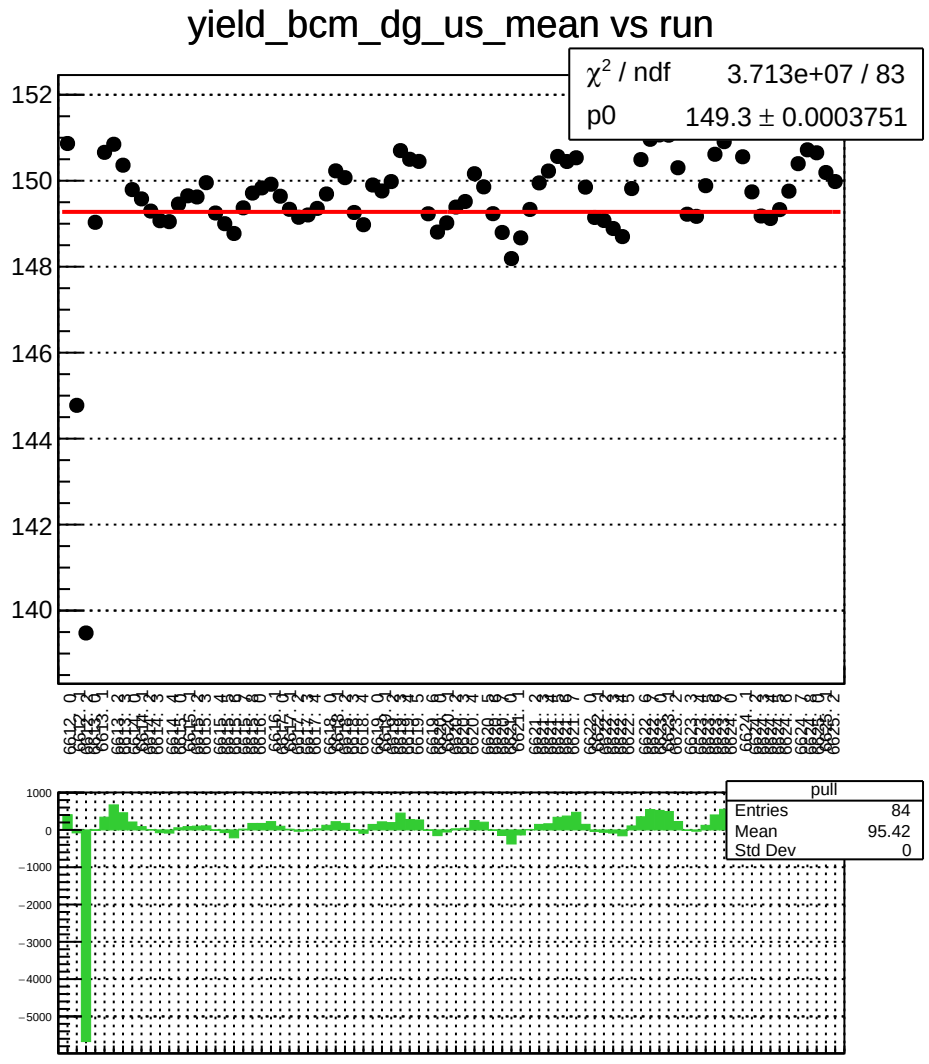

pull1D
Entries 84
Mean −3.631
Std Dev 3.548
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

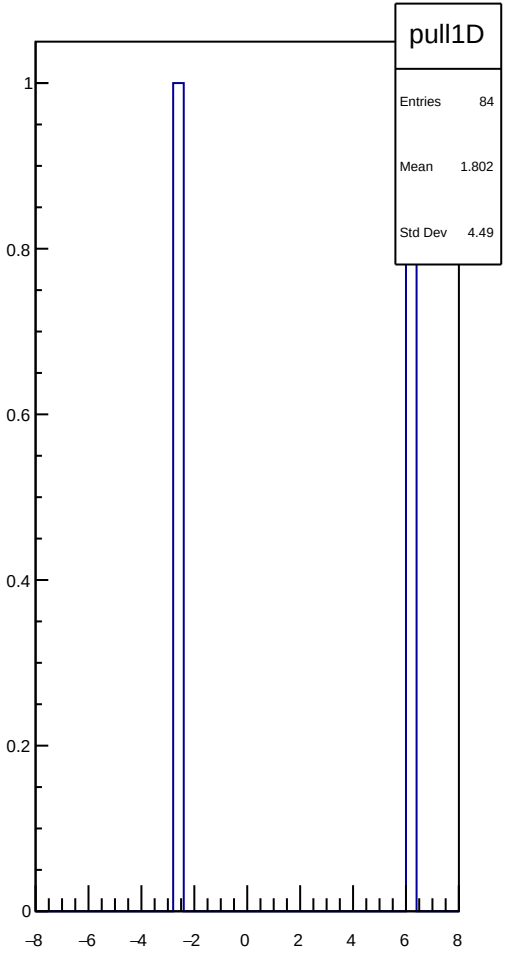

yield_bcm_an_ds3_rms vs run
χ^2 / ndf 8.816e+04 / 83
p0 0.3062 ± 0.0002464
5
4
3
2
1

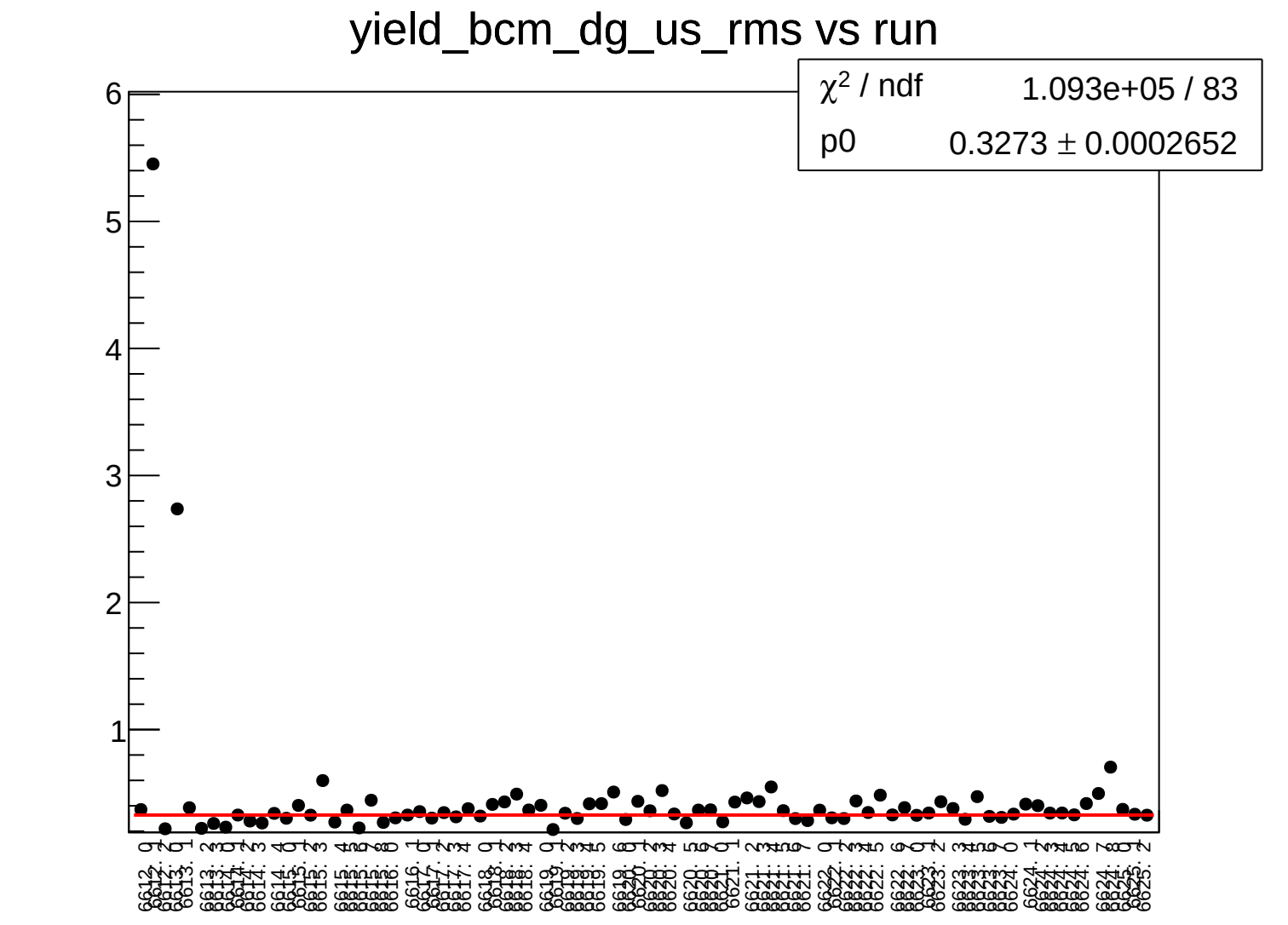

yield_bcm_an_us_mean vs run
χ² / ndf 3.019e+07 / 83
p0 147.5 ± 0.0003493
148
146
144
142
140
138
pull
Entries 84
Mean 134.2
Std Dev 0
0
−1000
−2000
−3000
−4000
−5000

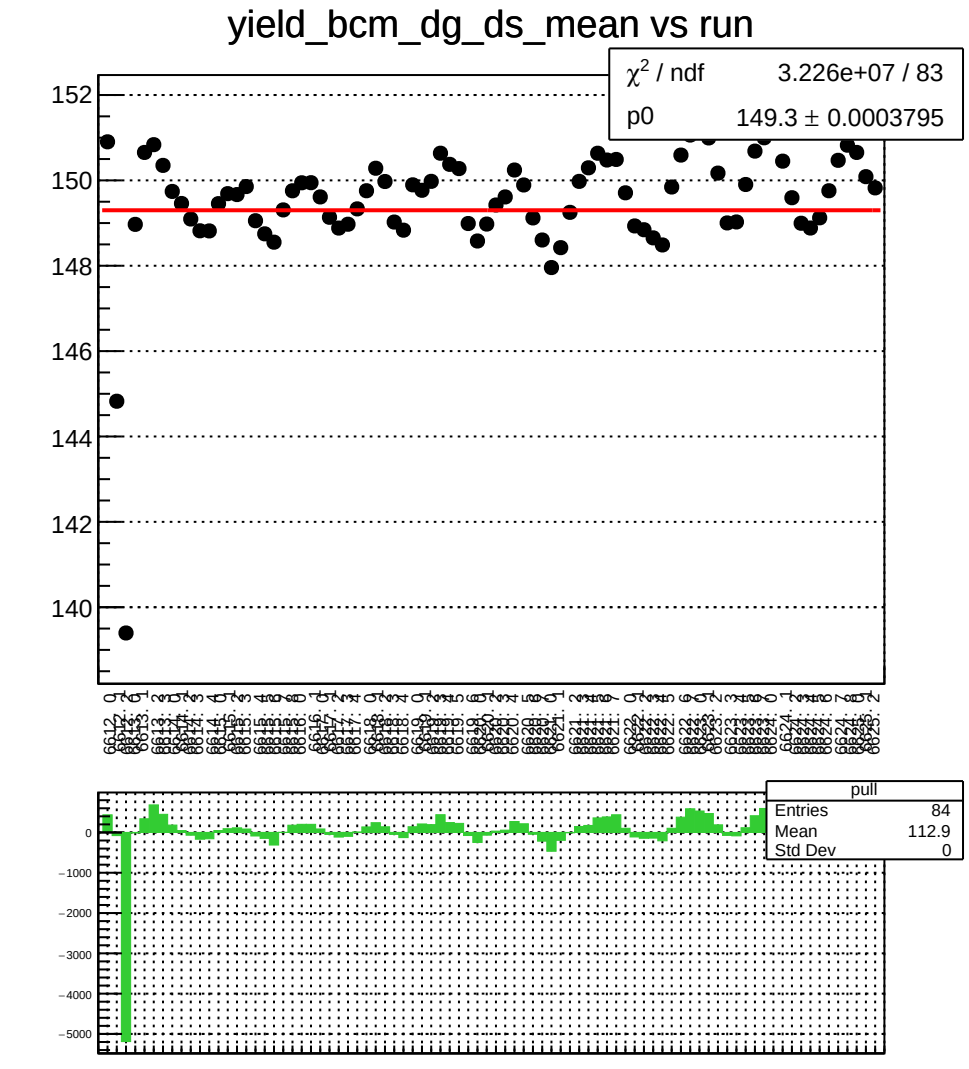

pull1D
Entries 84
Mean −2.485
Std Dev 2.79
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

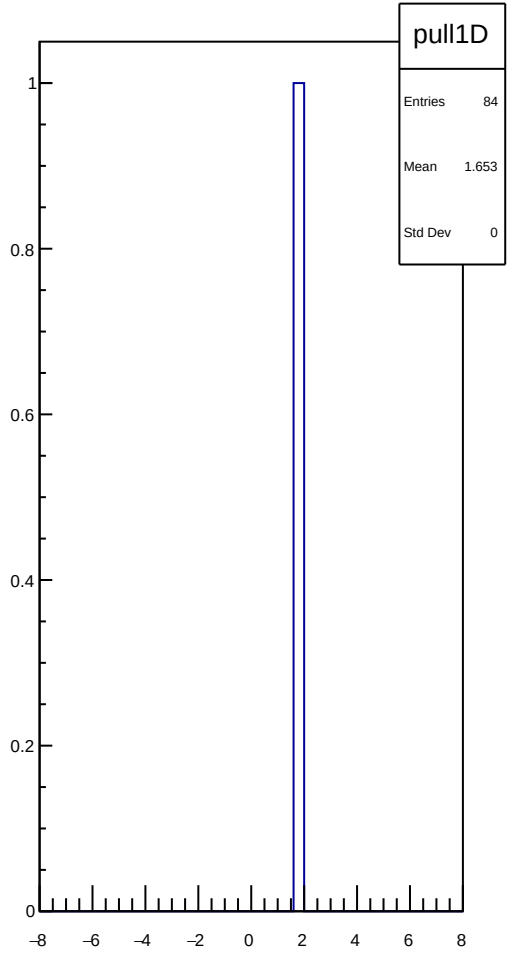

yield_bcm_an_us_rms vs run
χ² / ndf 8.894e+04 / 83
p0 0.3069 ± 0.000247
5
4
3
2
1

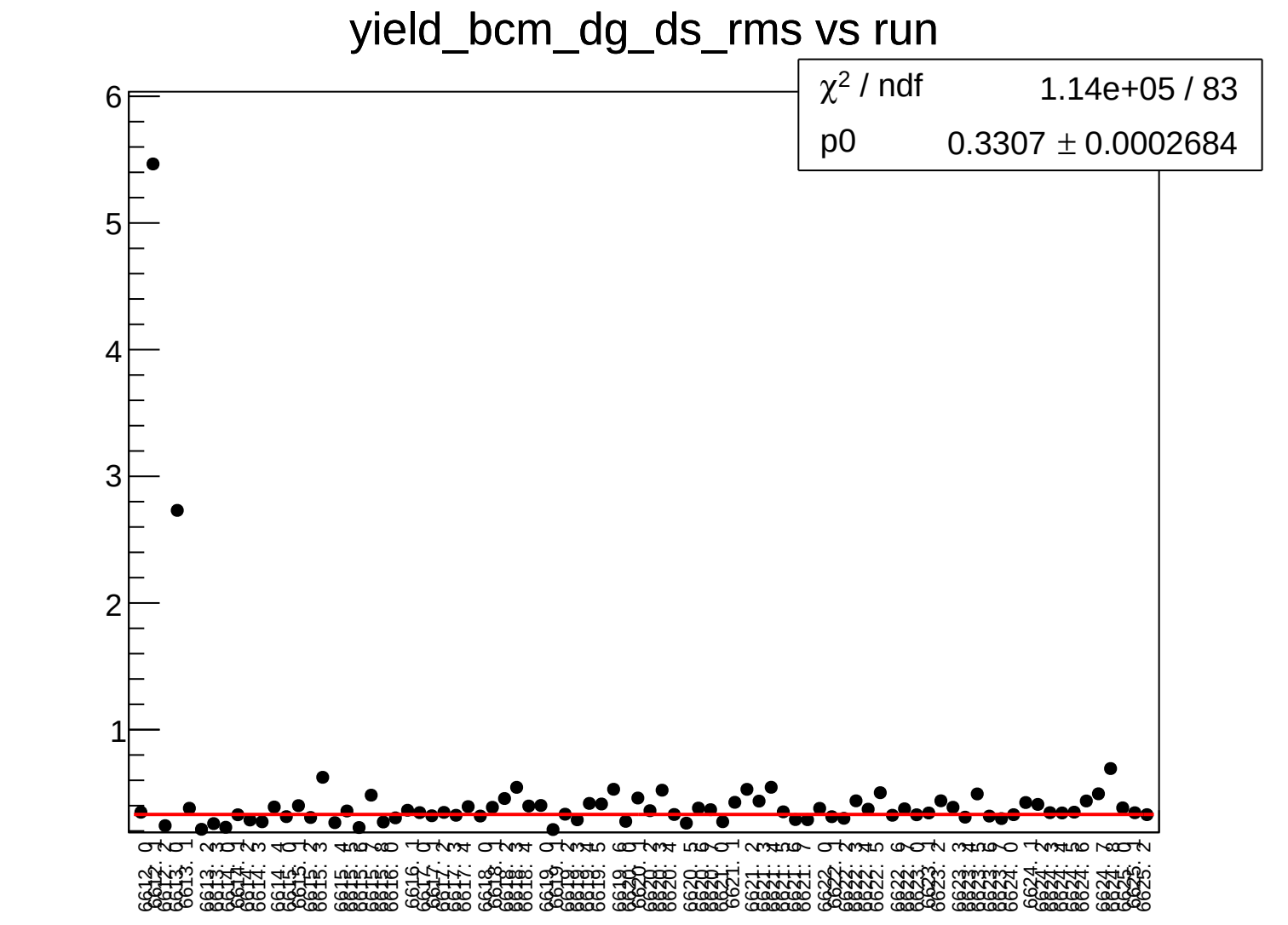

yield_bcm_dg_us_mean vs run
χ² / ndf 3.713e+07 / 83
p0 149.3 ± 0.0003751
152
150
148
146
144
142
140
pull
Entries 84
Mean 95.42
Std Dev 0
1000
0
−1000
−2000
−3000
−4000
−5000

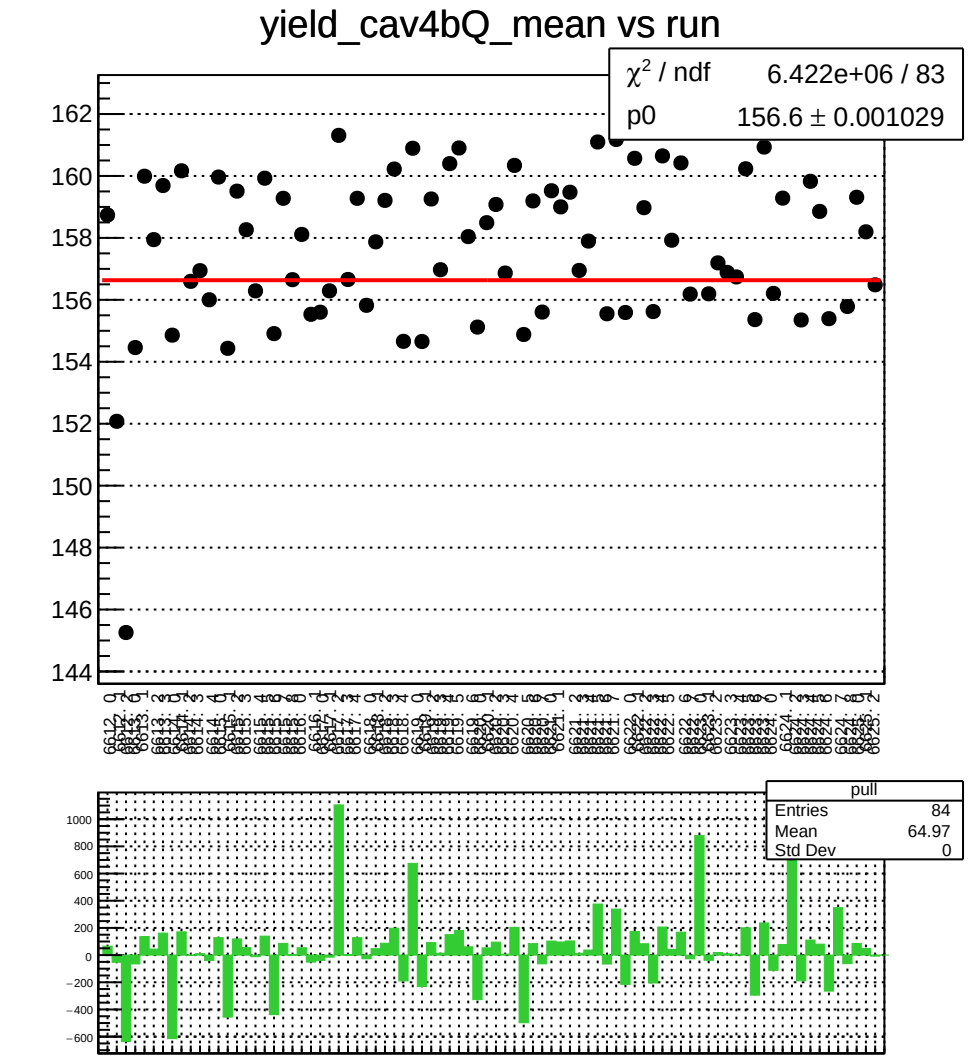

pull1D
Entries 84
Mean 1.802
Std Dev 4.49
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

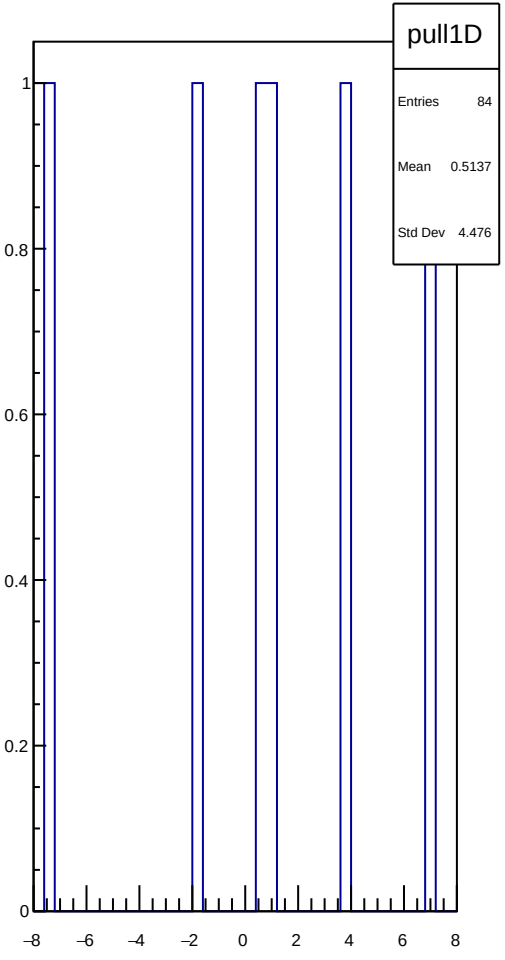

yield_bcm_dg_us_rms vs run
χ² / ndf 1.093e+05 / 83
p0 0.3273 ± 0.0002652
6
5
4
3
2
1

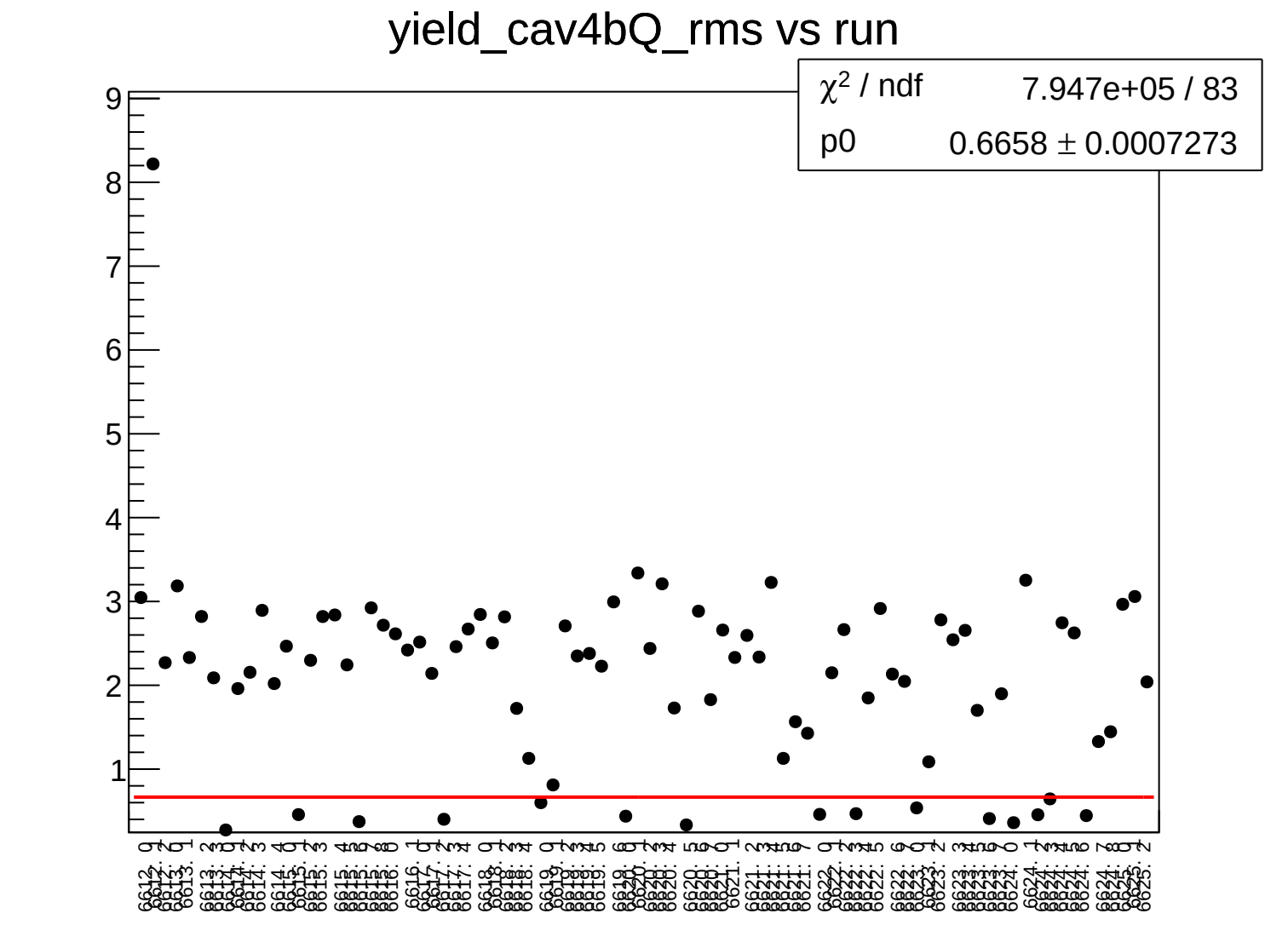

yield_bcm_dg_ds_mean vs run
χ² / ndf 3.226e+07 / 83
p0 149.3 ± 0.0003795
152
150
148
146
144
142
140
pull
Entries 84
Mean 112.9
Std Dev 0
0
−1000
−2000
−3000
−4000
−5000

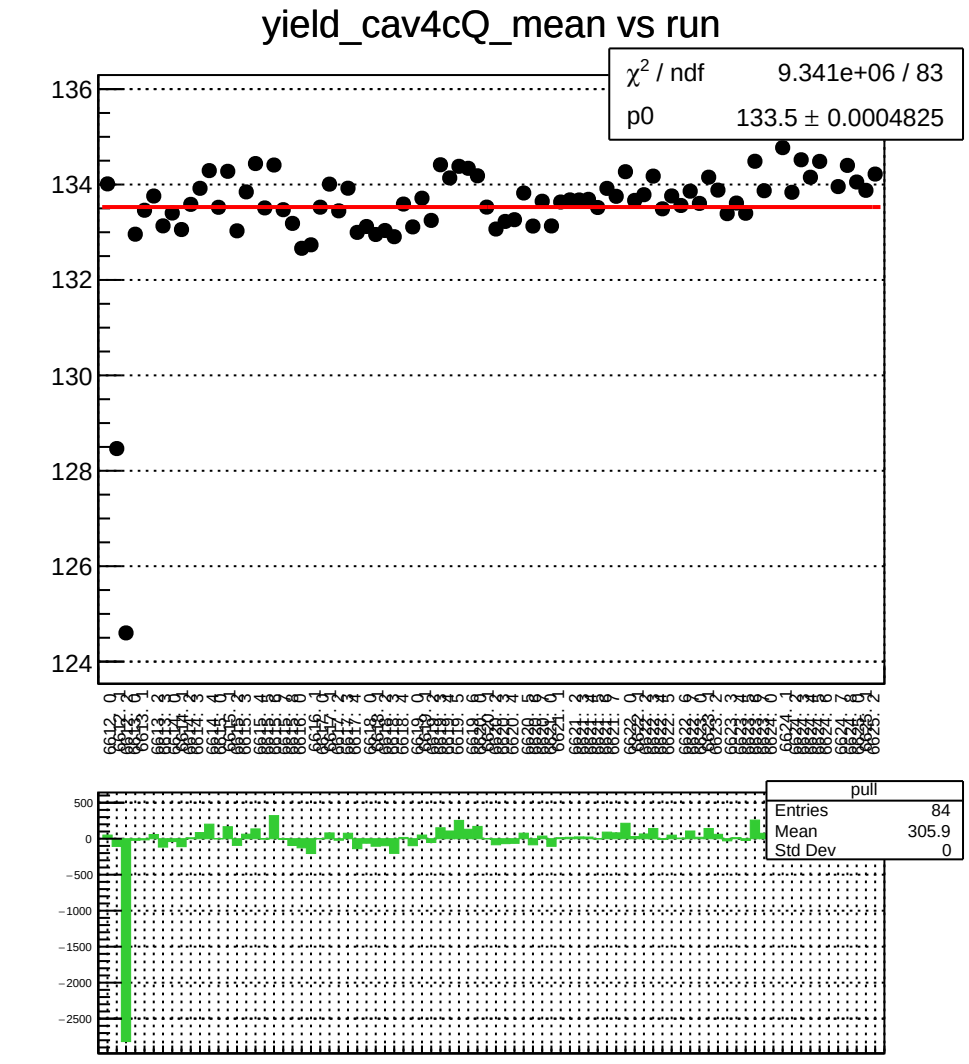

pull1D
Entries 84
Mean 1.653
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

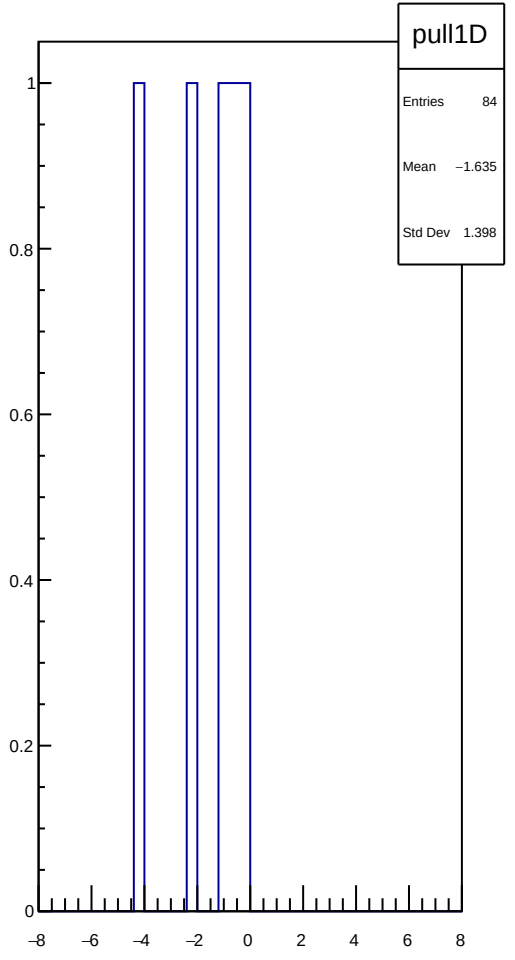

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.14e+05 / 83
p0 0.3307 ± 0.0002684
6
5
4
3
2
1

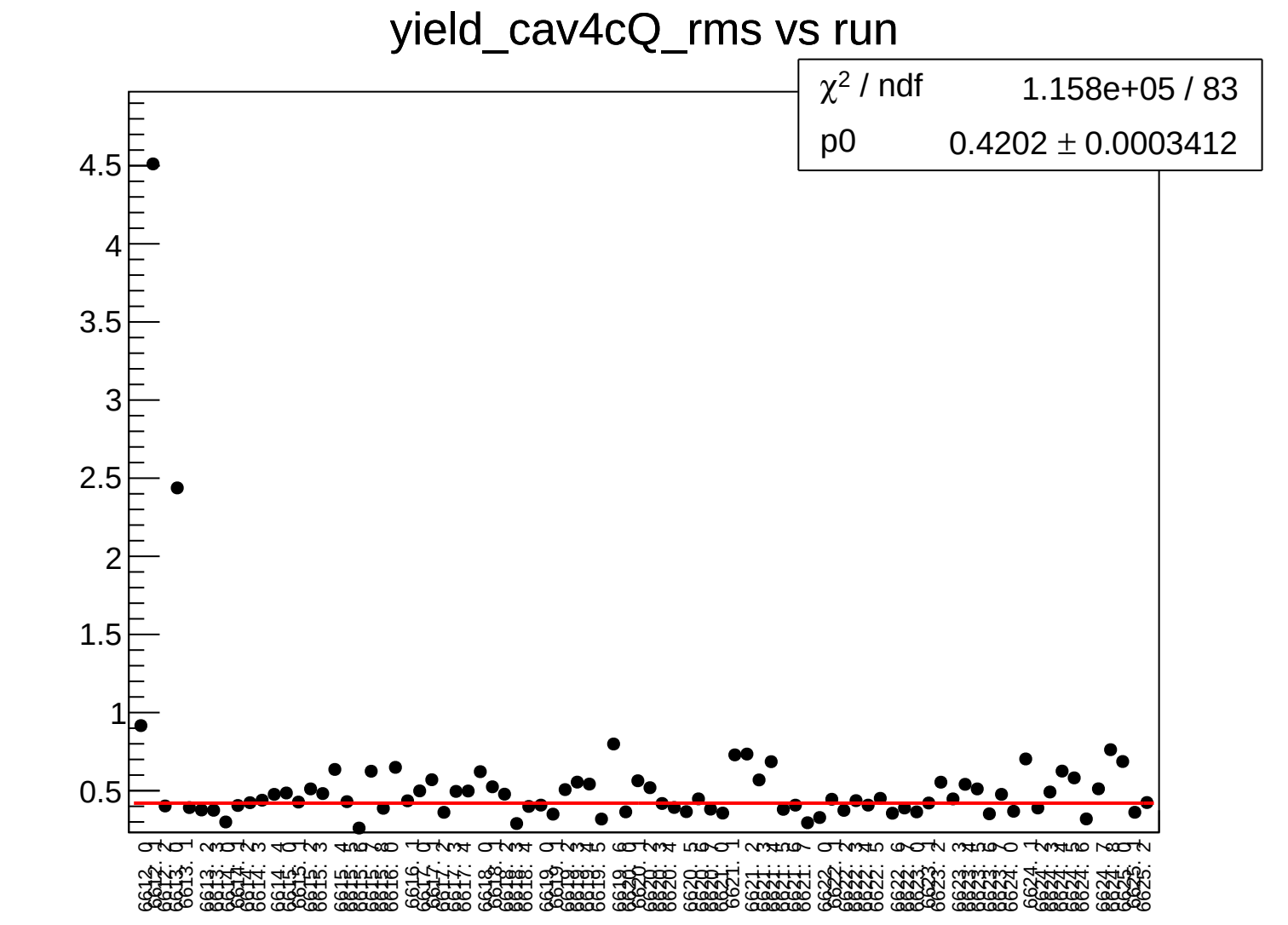

yield_cav4bQ_mean vs run
χ² / ndf 6.422e+06 / 83
p0 156.6 ± 0.001029
pull
Entries 84
Mean 64.97
Std Dev 0

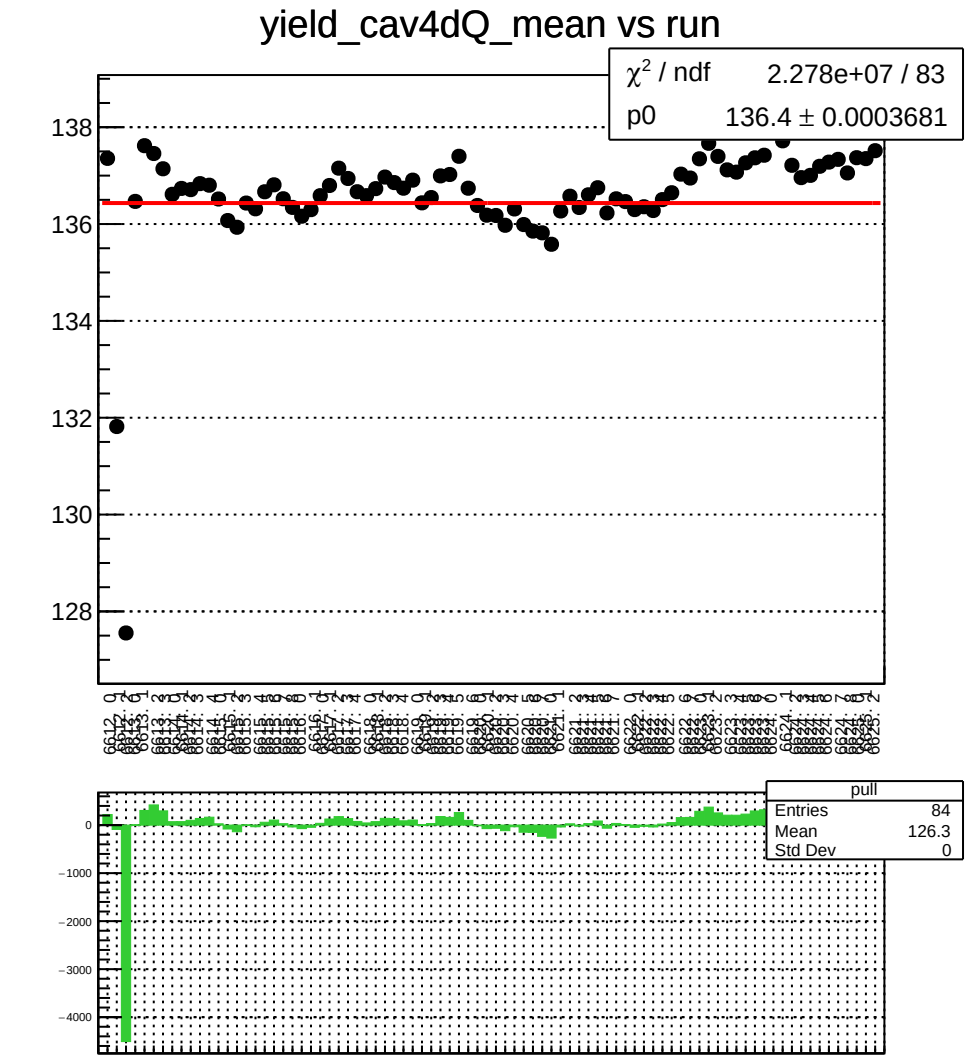

pull1D
Entries 84
Mean 0.5137
Std Dev 4.476

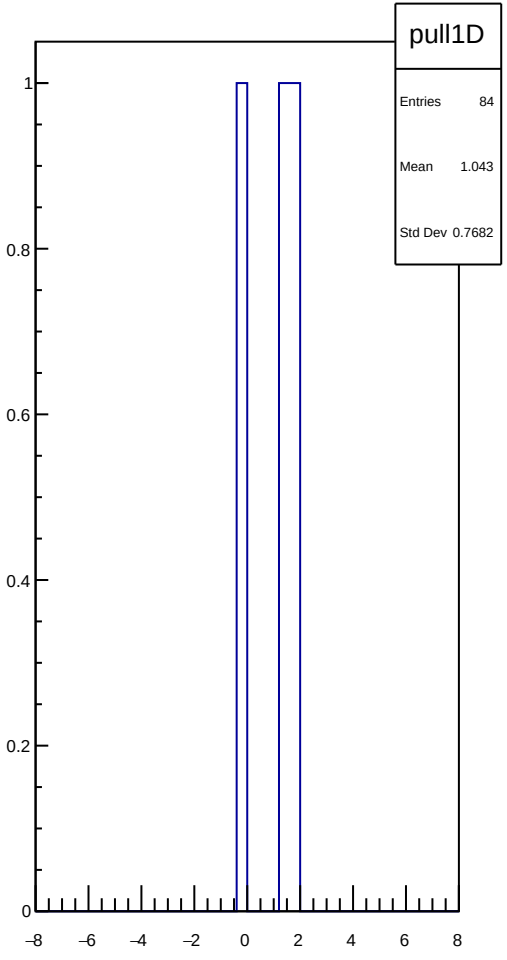

yield_cav4bQ_rms vs run
χ² / ndf 7.947e+05 / 83
p0 0.6658 ± 0.0007273
9
8
7
6
5
4
3
2
1

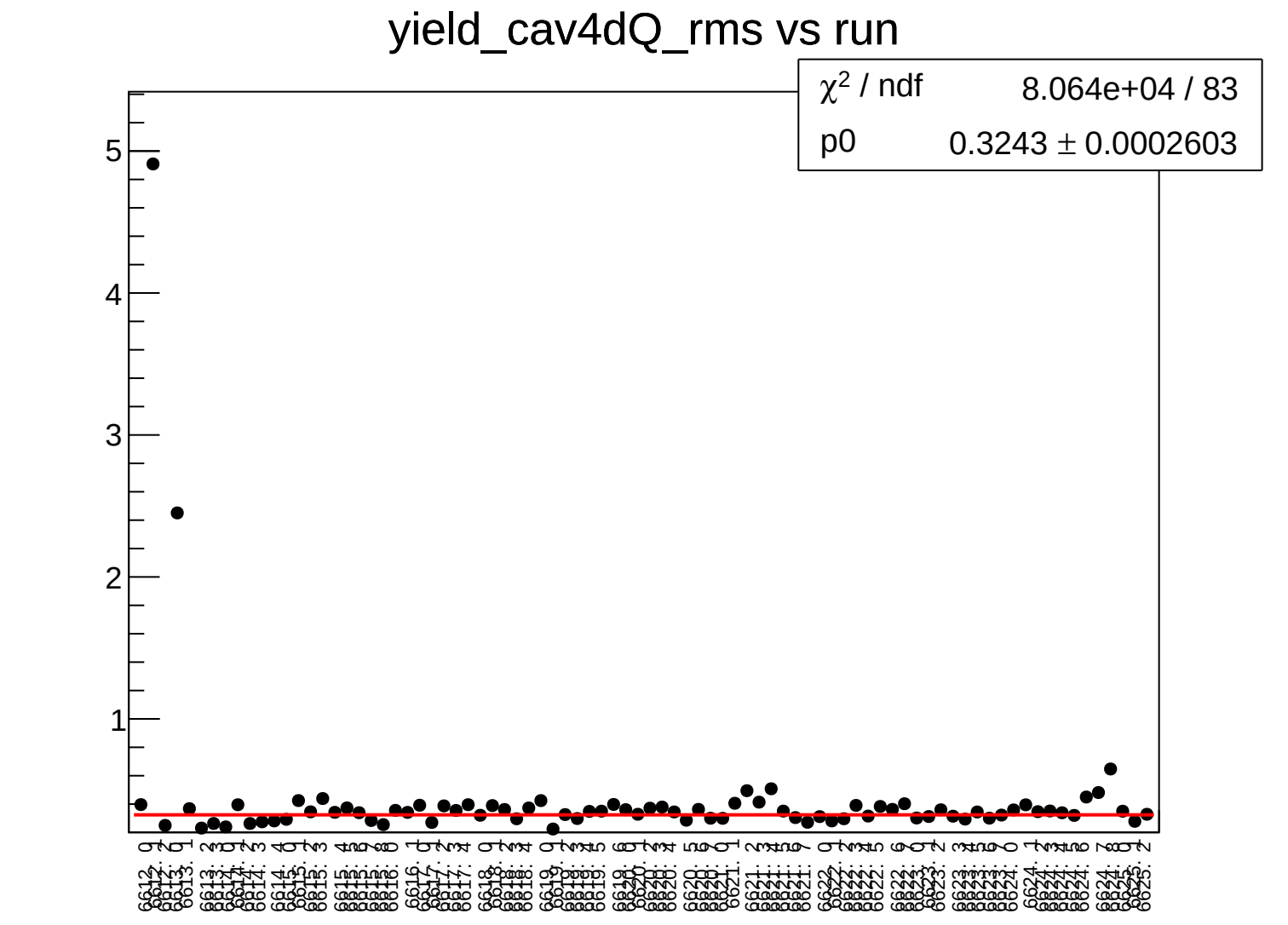

yield_cav4cQ_mean vs run
χ² / ndf 9.341e+06 / 83
p0 133.5 ± 0.0004825
136
134
132
130
128
126
124
pull
Entries 84
Mean 305.9
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500

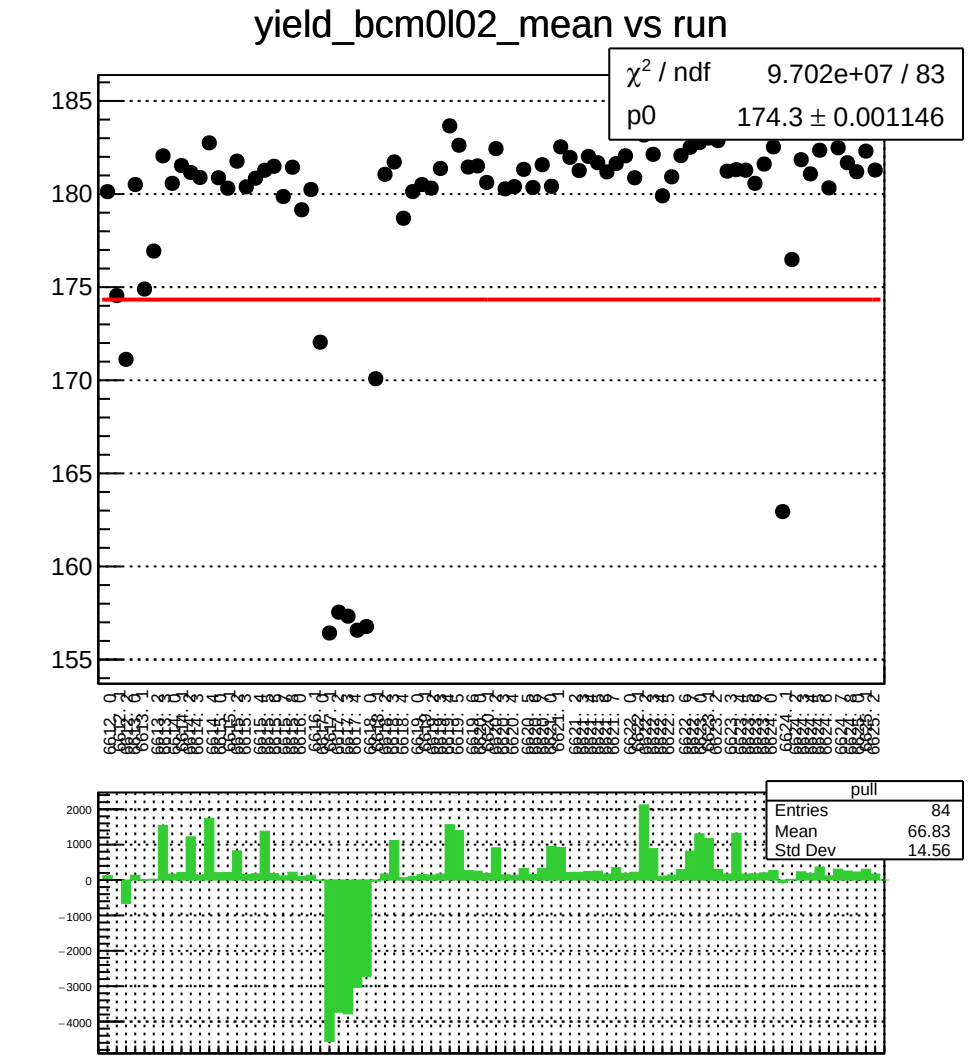

pull1D
Entries 84
Mean −1.635
Std Dev 1.398
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

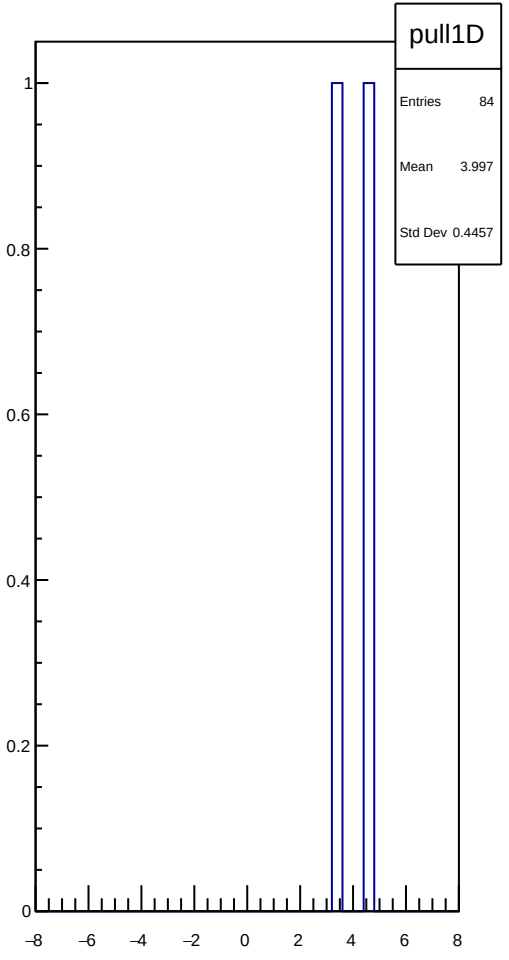

yield_cav4cQ_rms vs run
χ² / ndf 1.158e+05 / 83
p0 0.4202 ± 0.0003412
4.5
4
3.5
3
2.5
2
1.5
1
0.5

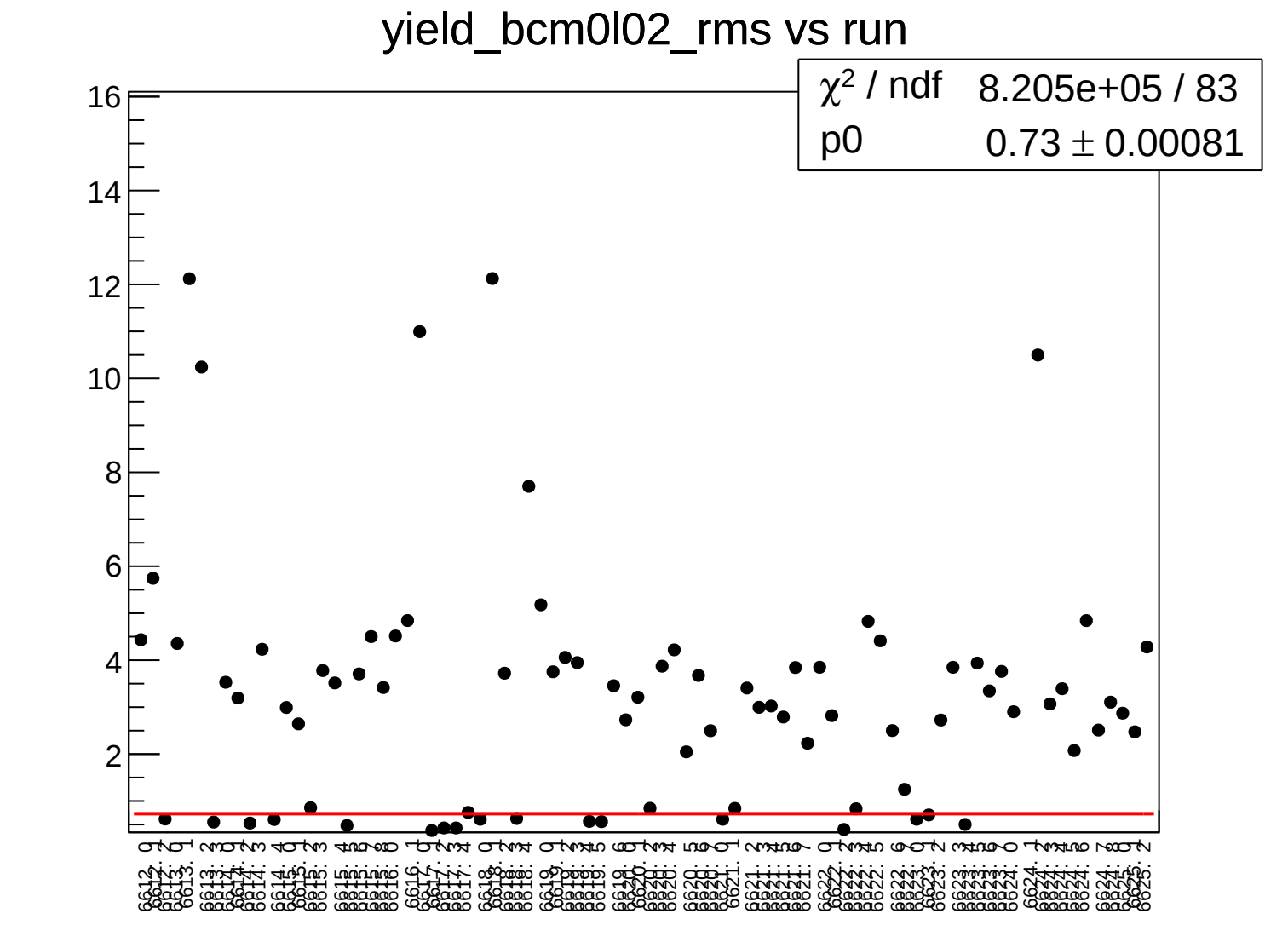

yield_cav4dQ_mean vs run
χ² / ndf 2.278e+07 / 83
p0 136.4 ± 0.0003681
138
136
134
132
130
128
pull
Entries 84
Mean 126.3
Std Dev 0
0
−1000
−2000
−3000
−4000

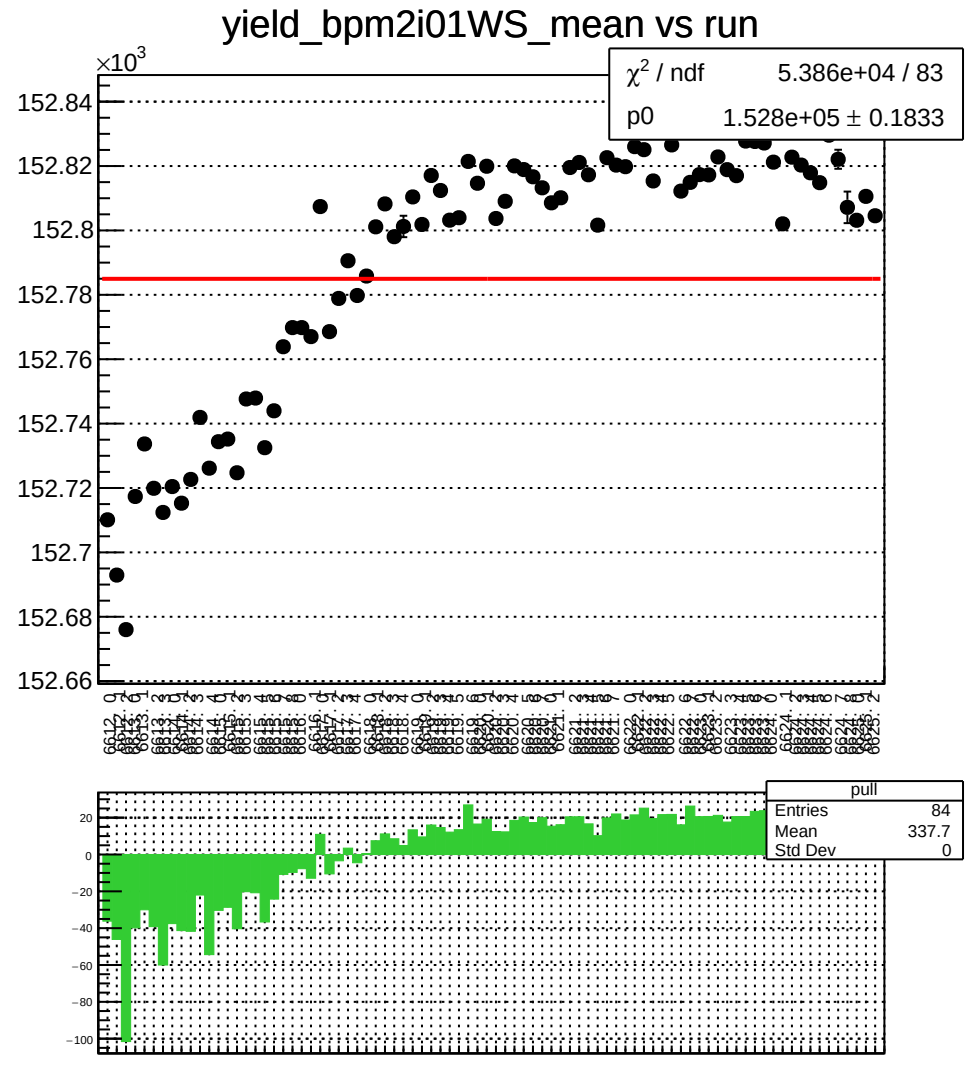

pull1D
Entries 84
Mean 1.043
Std Dev 0.7682
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

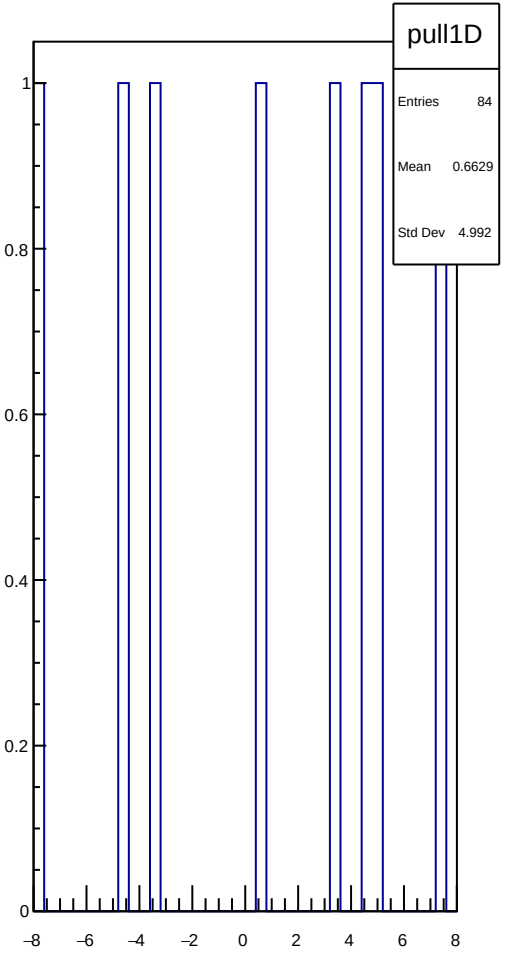

yield_cav4dQ_rms vs run
χ² / ndf 8.064e+04 / 83
p0 0.3243 ± 0.0002603
5
4
3
2
1

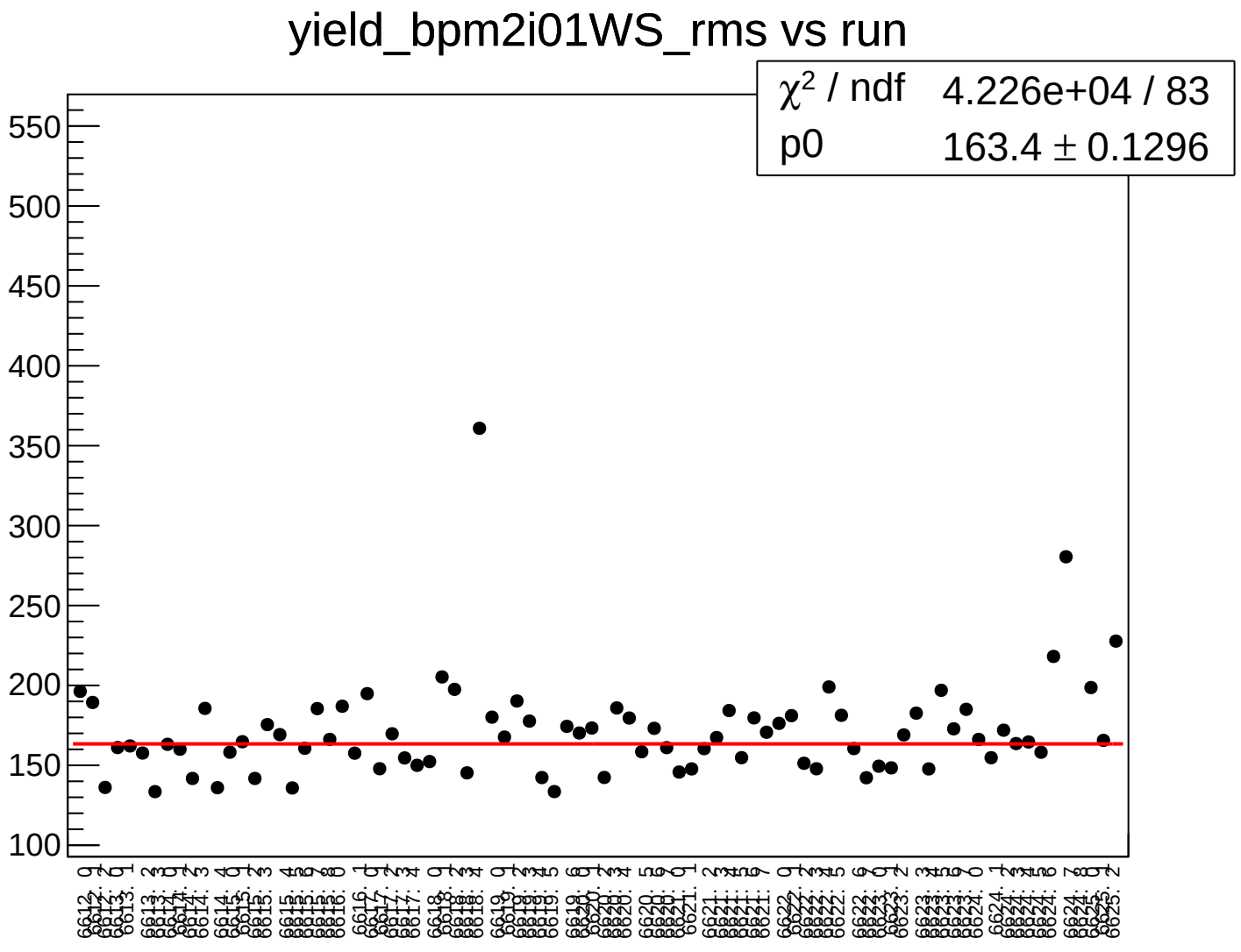

yield_bcm0l02_mean vs run
χ² / ndf 9.702e+07 / 83
p0 174.3 ± 0.001146
185
180
175
170
165
160
155
pull
Entries 84
Mean 66.83
Std Dev 14.56
2000
1000
0
−1000
−2000
−3000
−4000

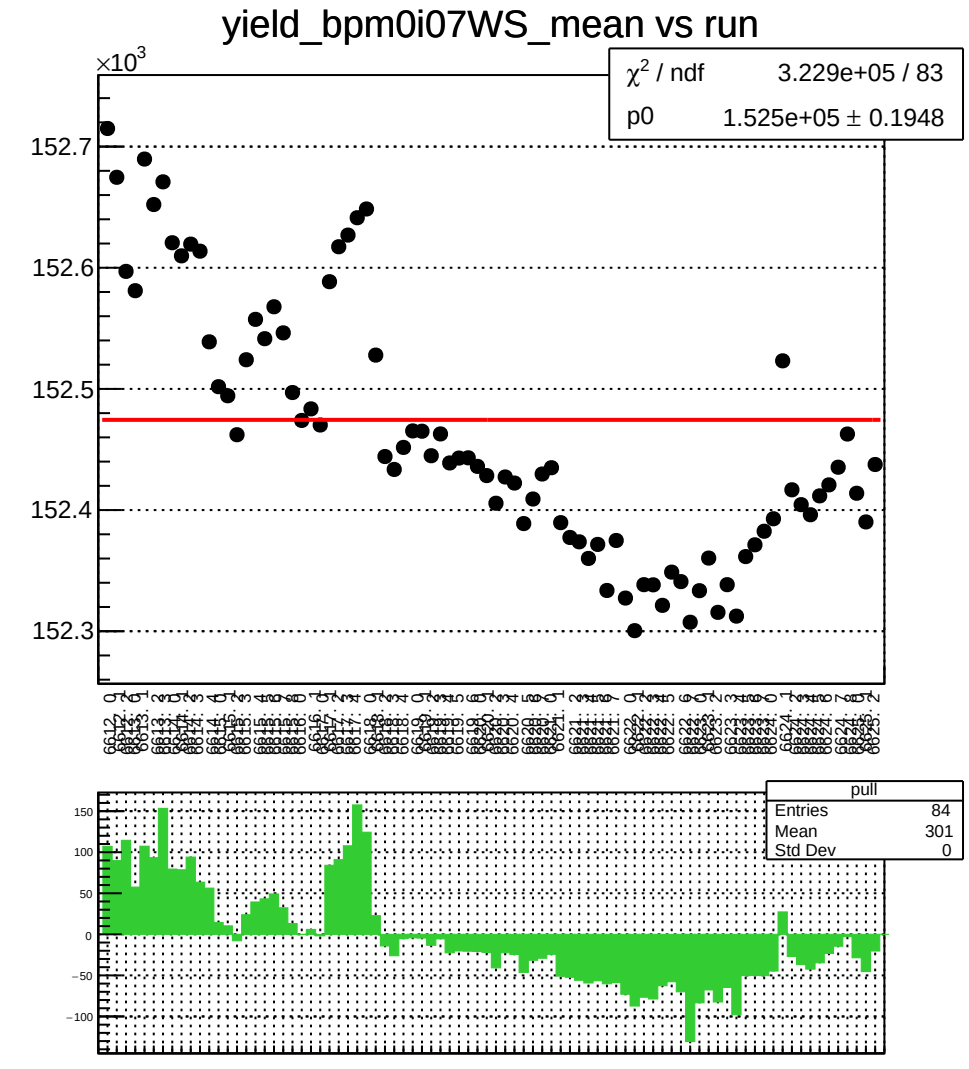

pull1D
Entries 84
Mean 3.997
Std Dev 0.4457
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

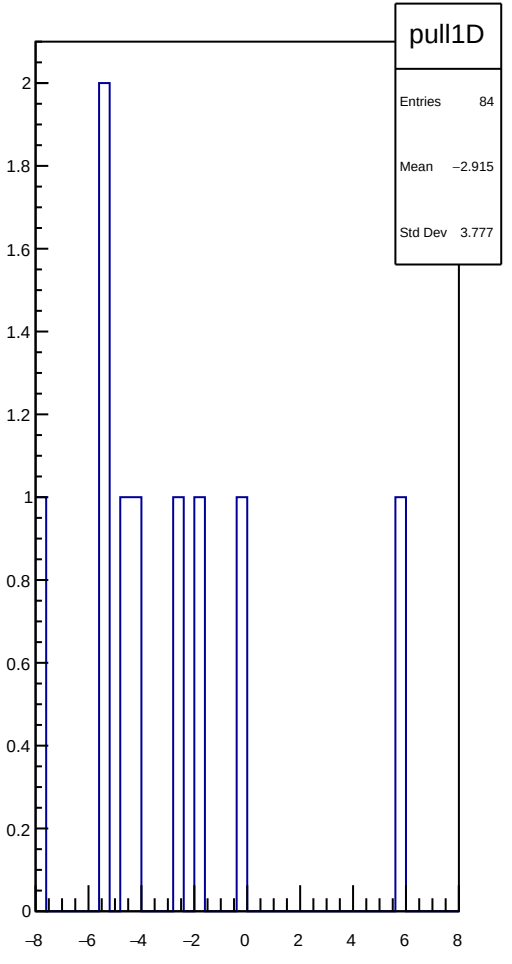

yield_bcm0l02_rms vs run
χ² / ndf 8.205e+05 / 83
p0 0.73 ± 0.00081
16
14
12
10
8
6
4
2

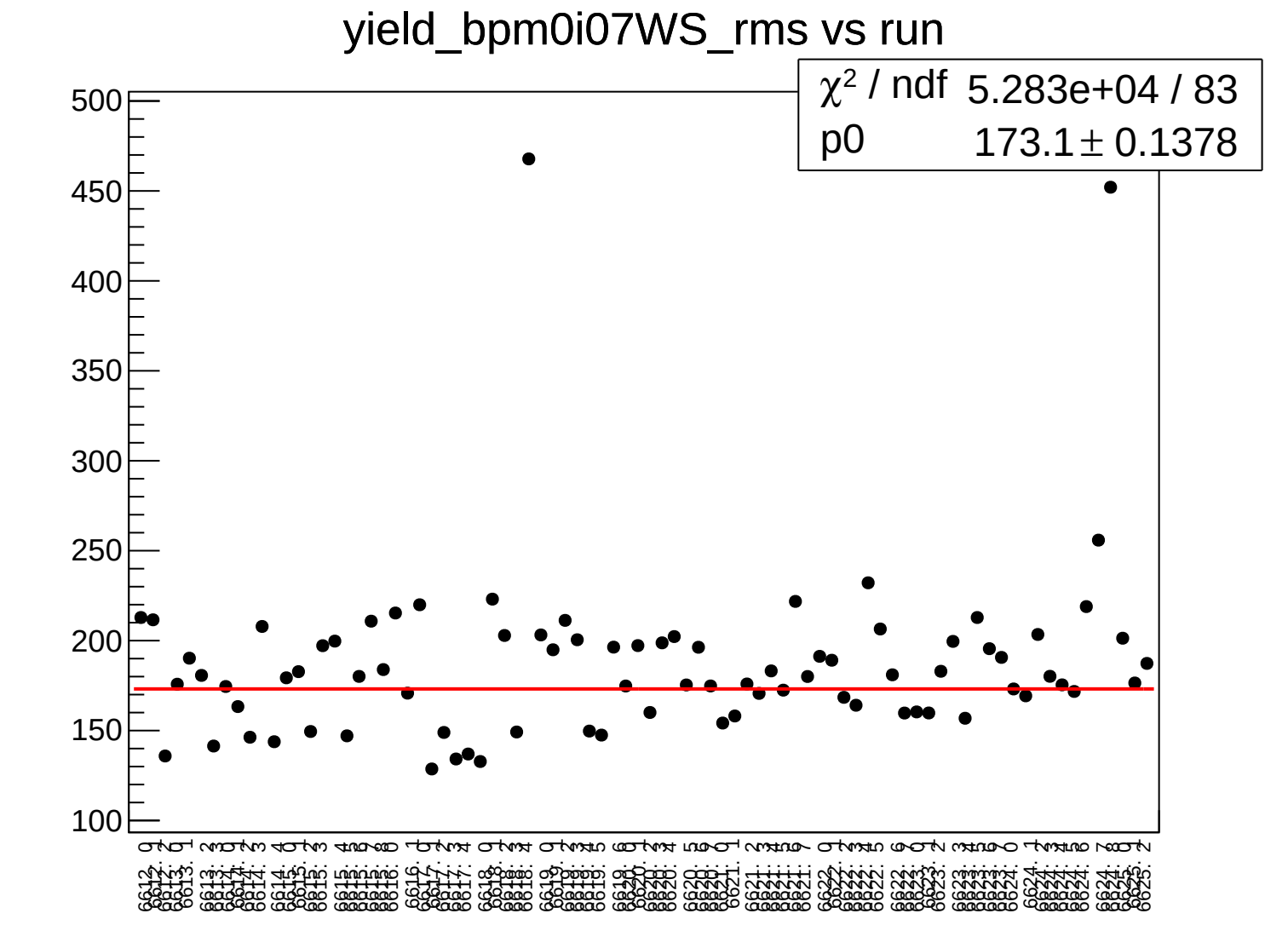

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5.386e+04 / 83
p0 1.528e+05 ± 0.1833
152.84
152.82
152.8
152.78
152.76
152.74
152.72
152.7
152.68
152.66
pull
Entries 84
Mean 337.7
Std Dev 0
20
0
−20
−40
−60
−80
−100

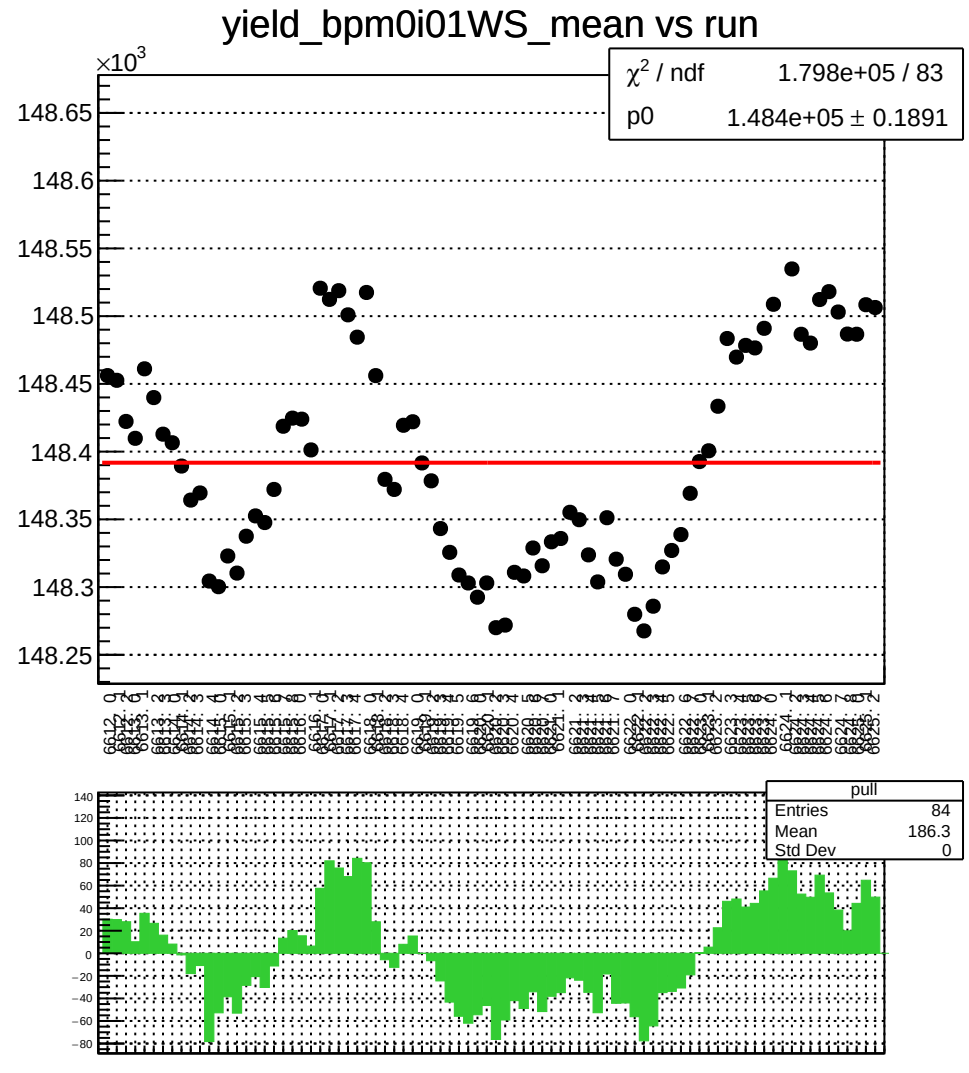

pull1D
Entries 84
Mean 0.6629
Std Dev 4.992
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

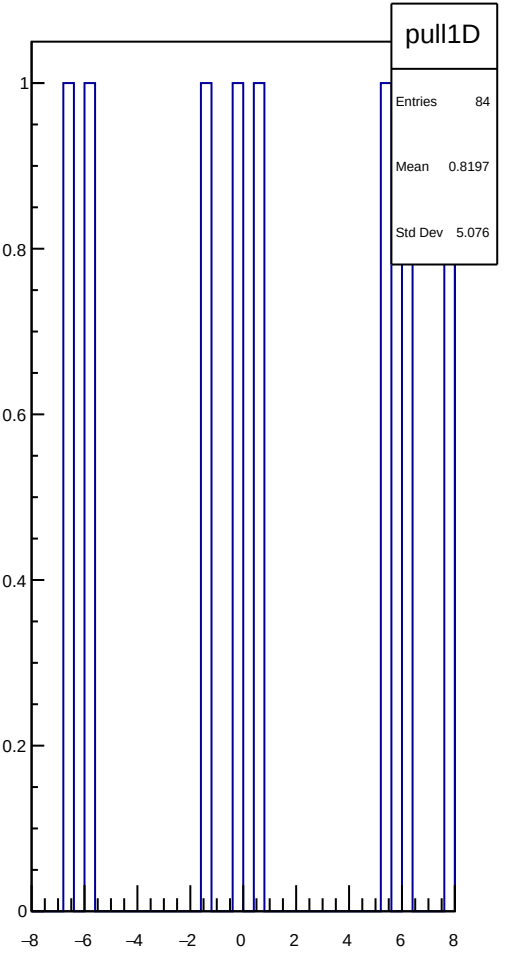

yield_bpm2i01WS_rms vs run
χ² / ndf 4.226e+04 / 83
p0 163.4 ± 0.1296
550
500
450
400
350
300
250
200
150
100

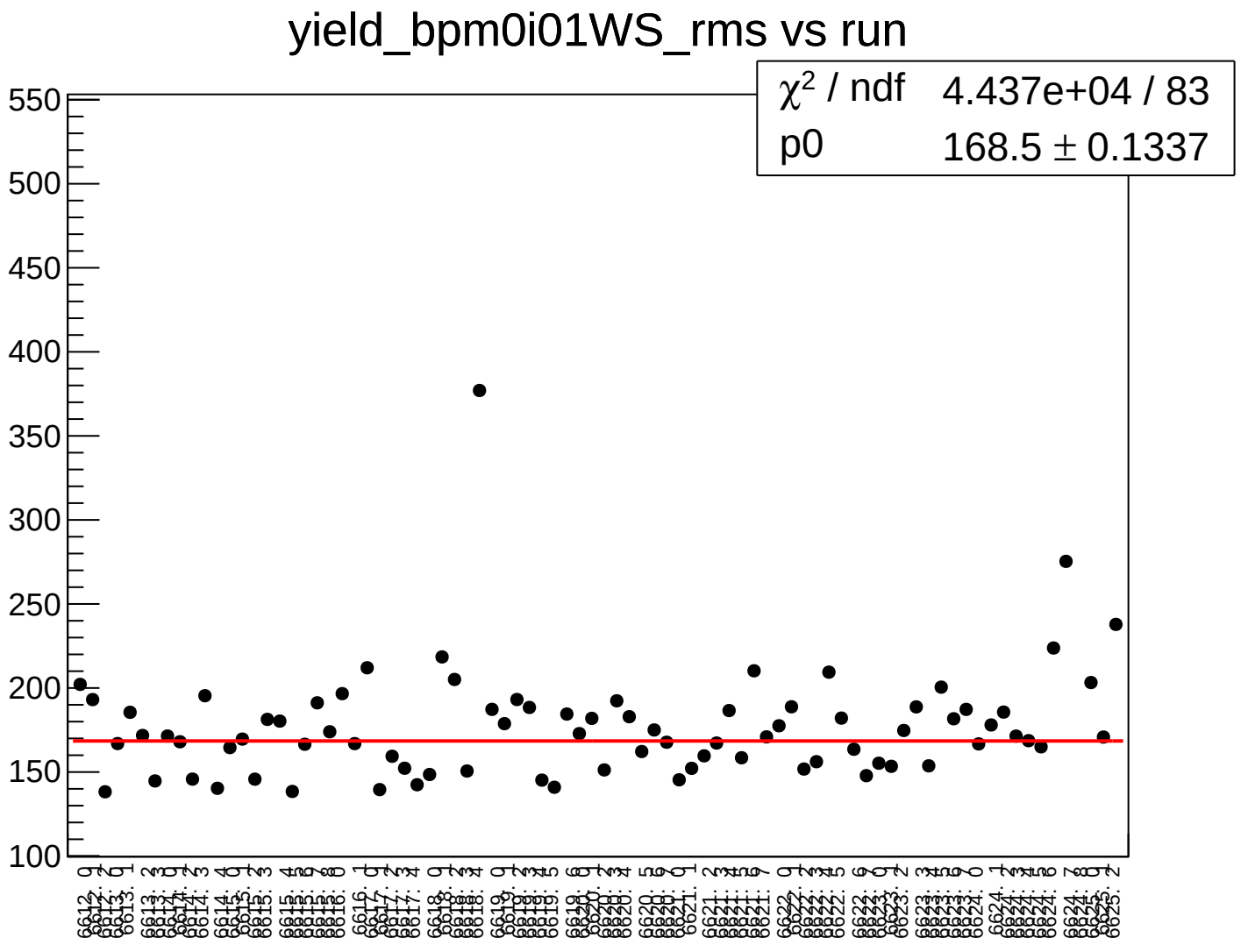

yield_bpm0i07WS_mean vs run
χ² / ndf 3.229e+05 / 83
p0 1.525e+05 ± 0.1948
×10³
152.7
152.6
152.5
152.4
152.3
pull
Entries 84
Mean 301
Std Dev 0
150
100
50
0
−50
−100

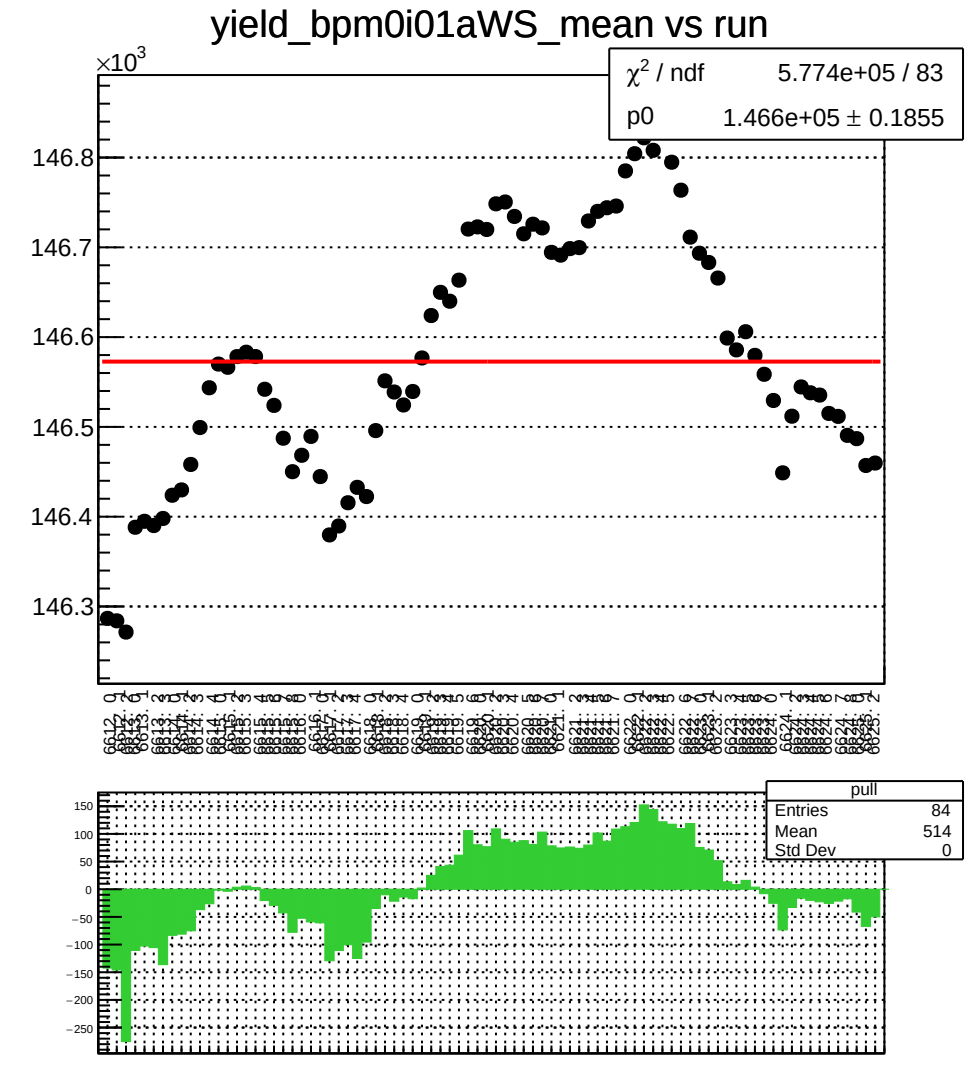

pull1D
Entries 84
Mean −2.915
Std Dev 3.777
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

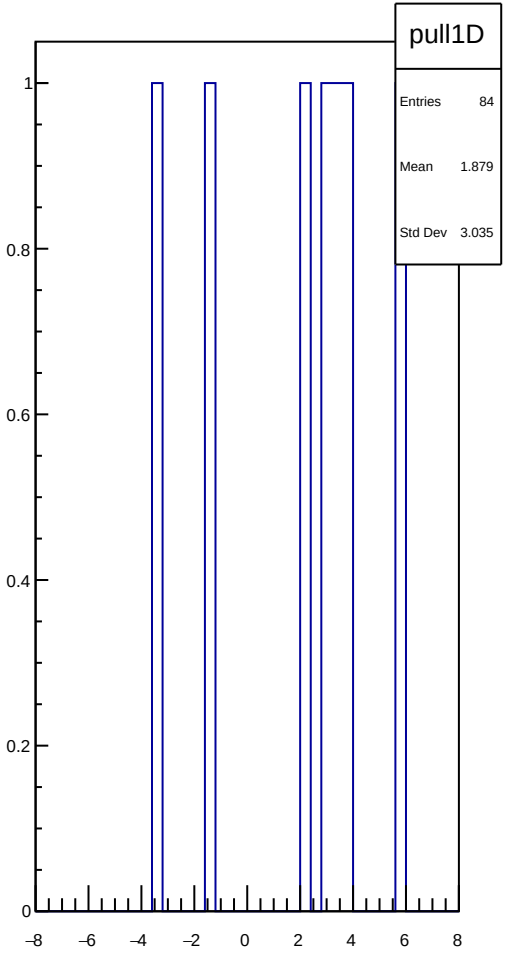

yield_bpm0i07WS_rms vs run
χ² / ndf 5.283e+04 / 83
p0 173.1 ± 0.1378
500
450
400
350
300
250
200
150
100

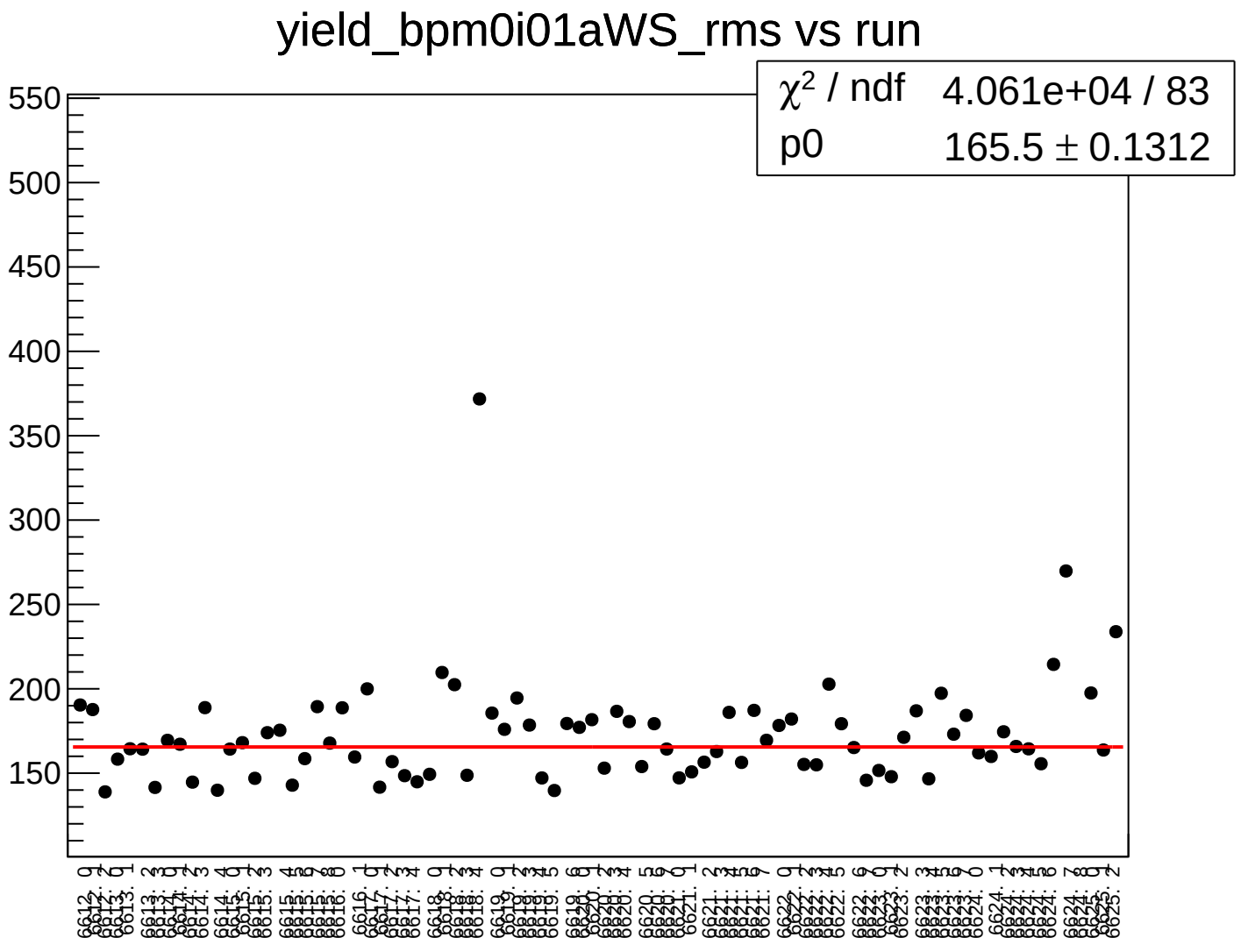

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 1.798e+05 / 83
p0 1.484e+05 ± 0.1891
148.65
148.6
148.55
148.5
148.45
148.4
148.35
148.3
148.25
pull
Entries 84
Mean 186.3
Std Dev 0
140
120
100
80
60
40
20
0
−20
−40
−60
−80

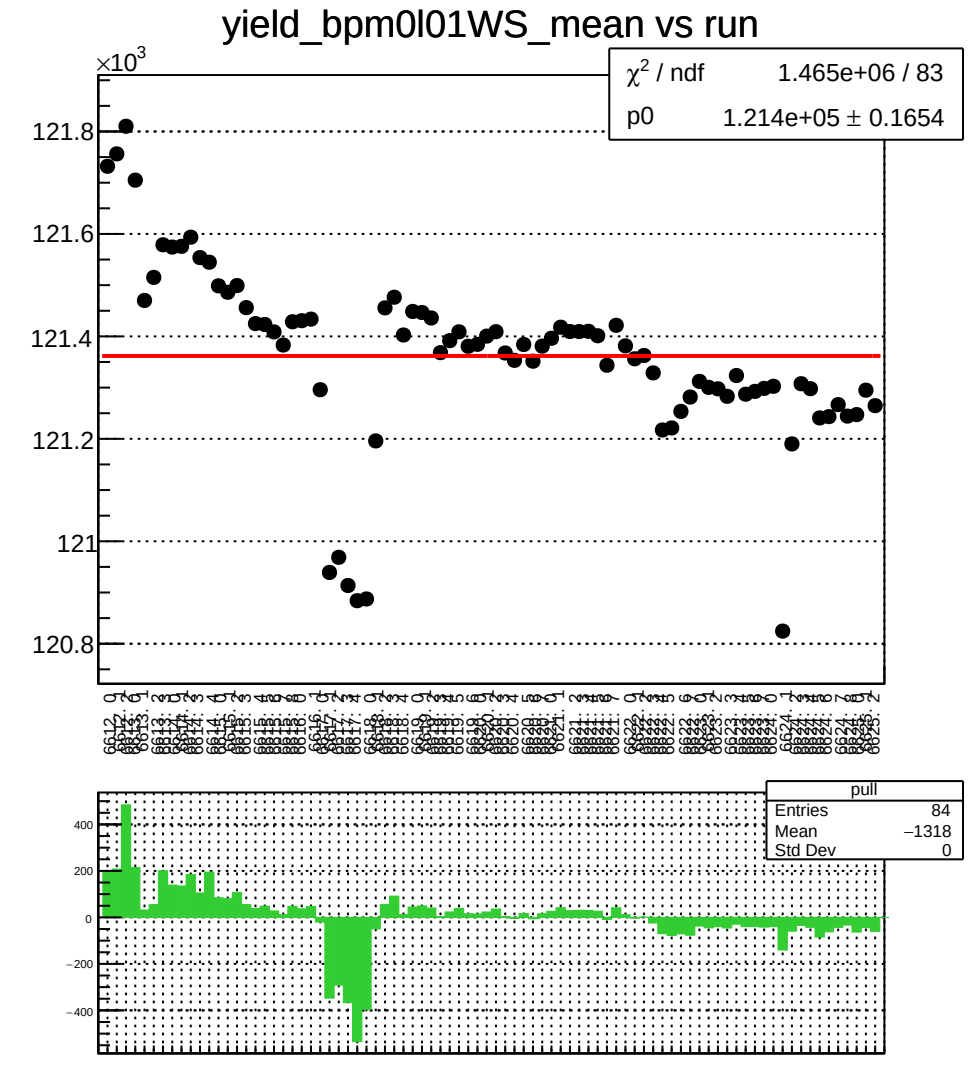

pull1D
Entries 84
Mean 0.8197
Std Dev 5.076
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

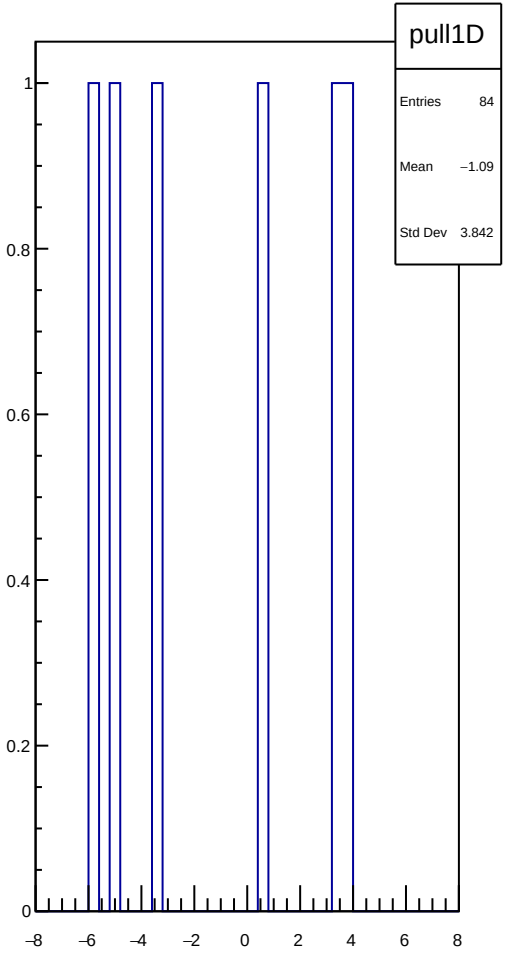

yield_bpm0i01WS_rms vs run
χ² / ndf 4.437e+04 / 83
p0 168.5 ± 0.1337
550
500
450
400
350
300
250
200
150
100

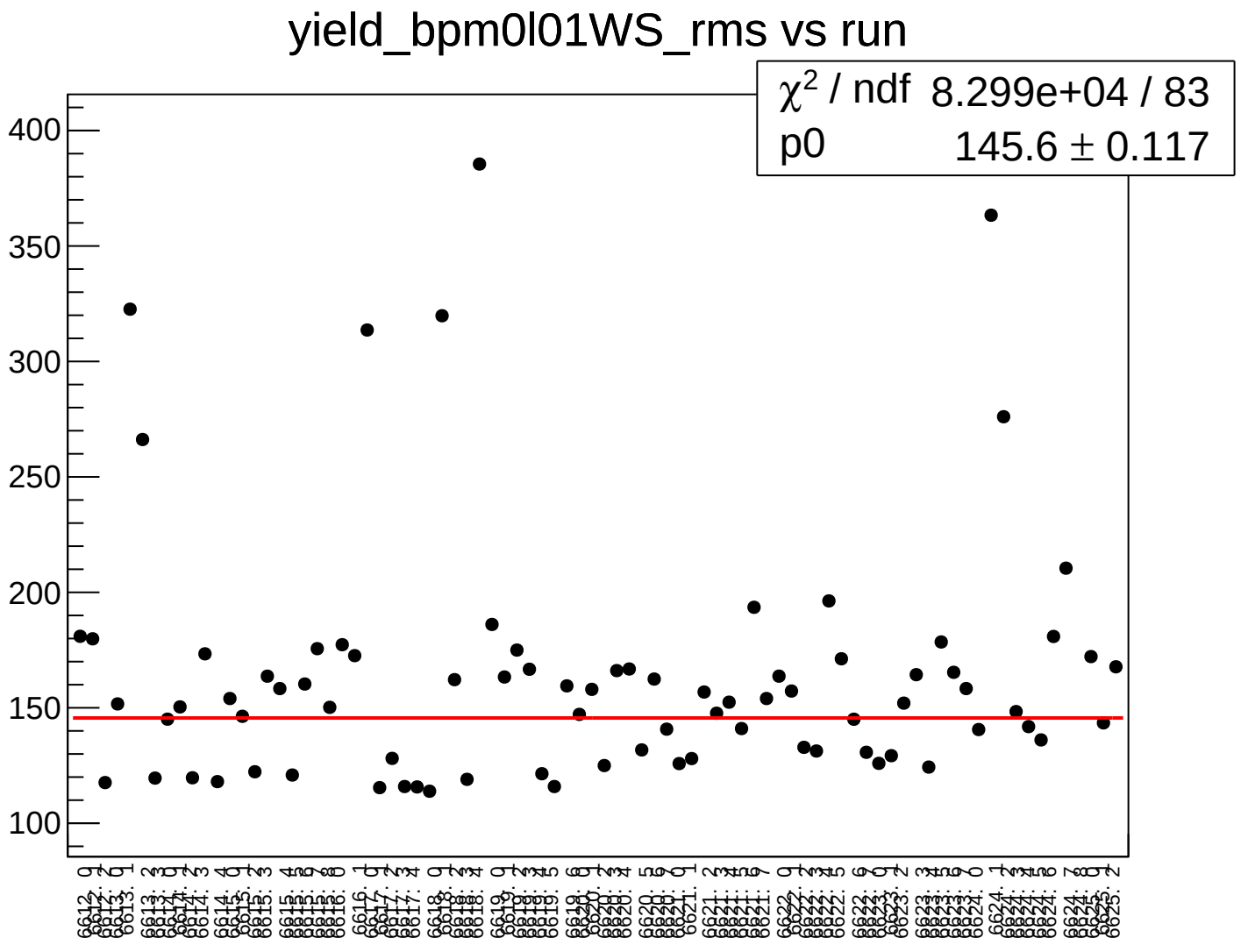

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 5.774e+05 / 83
p0 1.466e+05 ± 0.1855
146.8
146.7
146.6
146.5
146.4
146.3
pull
Entries 84
Mean 514
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

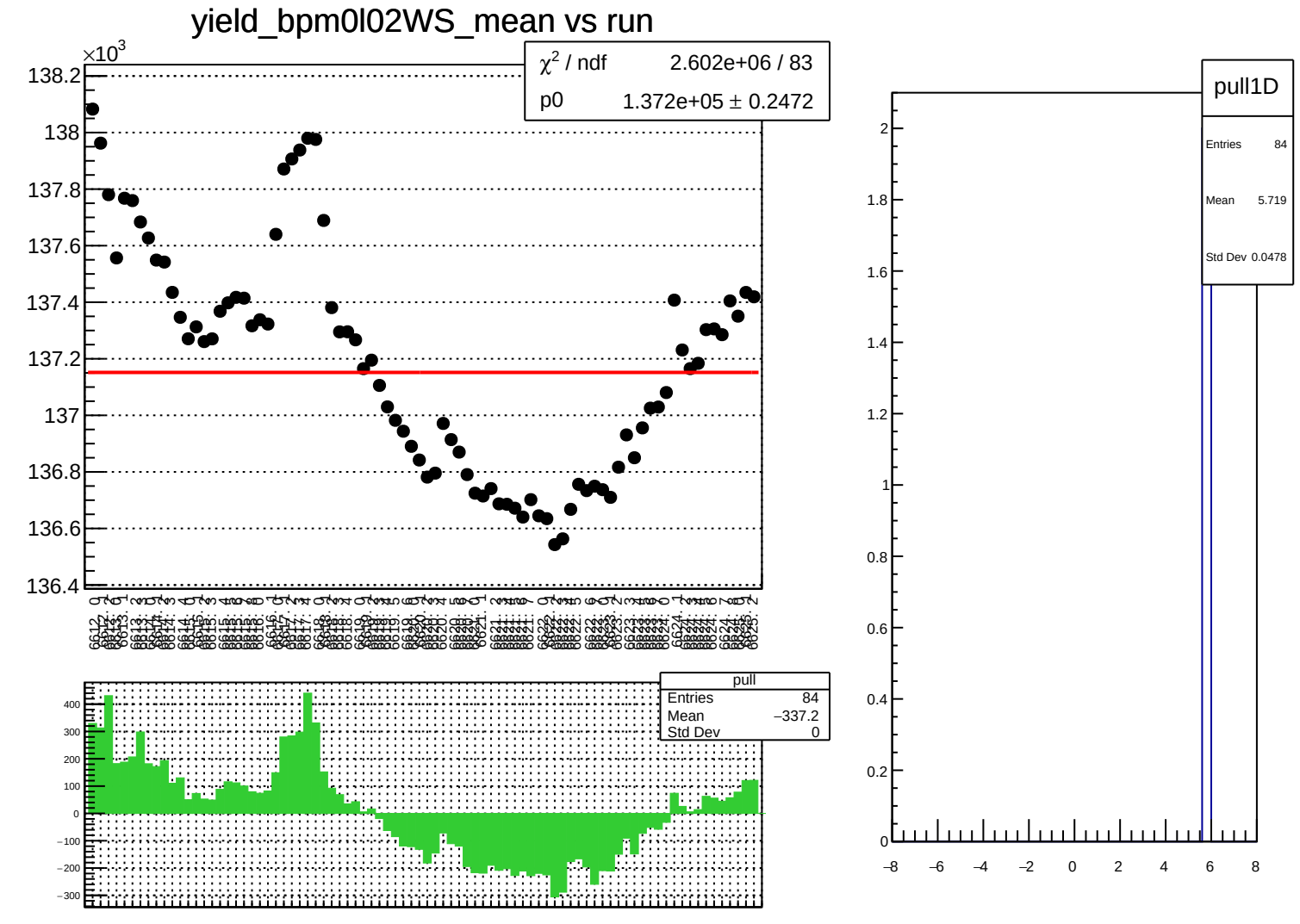

pull1D
Entries 84
Mean 1.879
Std Dev 3.035
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

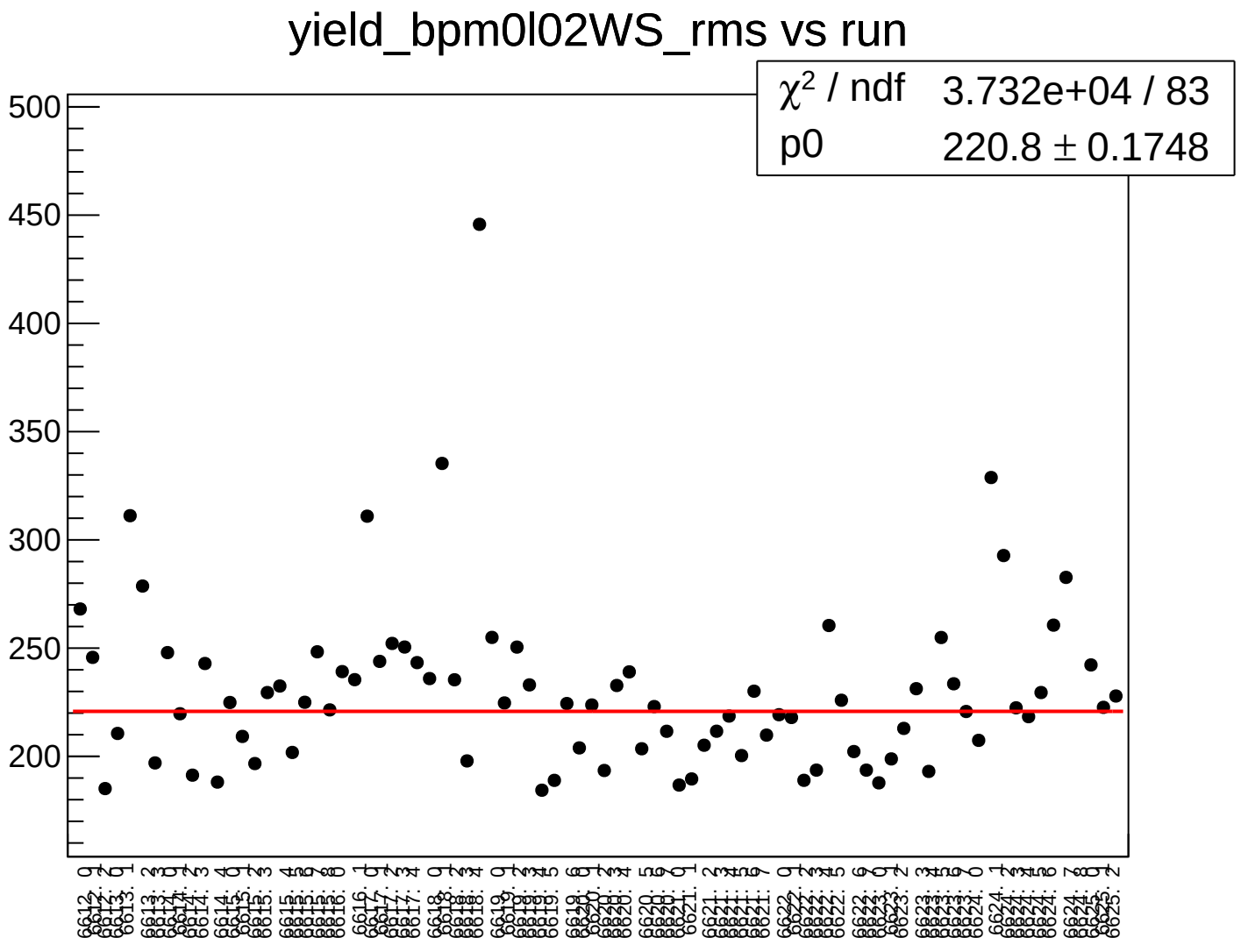

yield_bpm0i01aWS_rms vs run
χ² / ndf 4.061e+04 / 83
p0 165.5 ± 0.1312
550
500
450
400
350
300
250
200
150

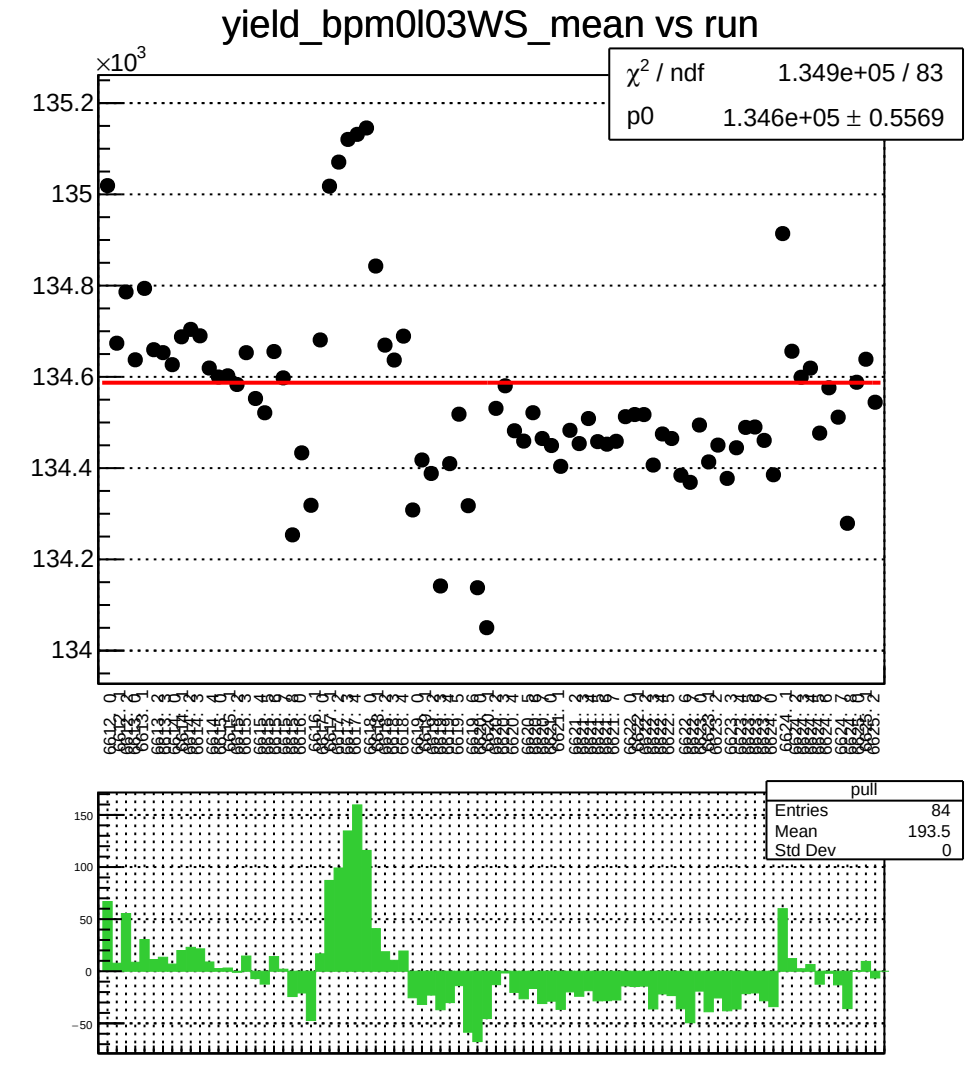

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.465e+06 / 83
p0 1.214e+05 ± 0.1654
121.8
121.6
121.4
121.2
121
120.8
pull
Entries 84
Mean −1318
Std Dev 0
400
200
0
−200
−400

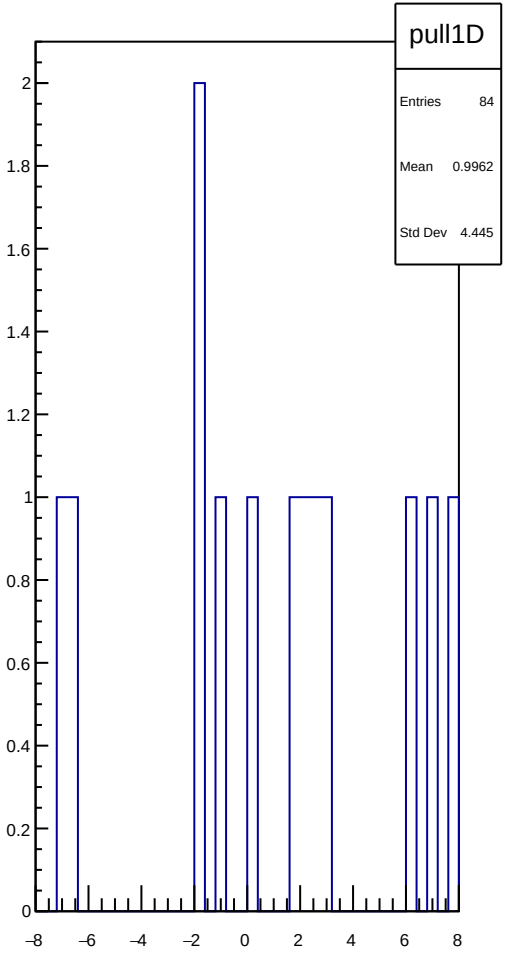

pull1D
Entries 84
Mean −1.09
Std Dev 3.842
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

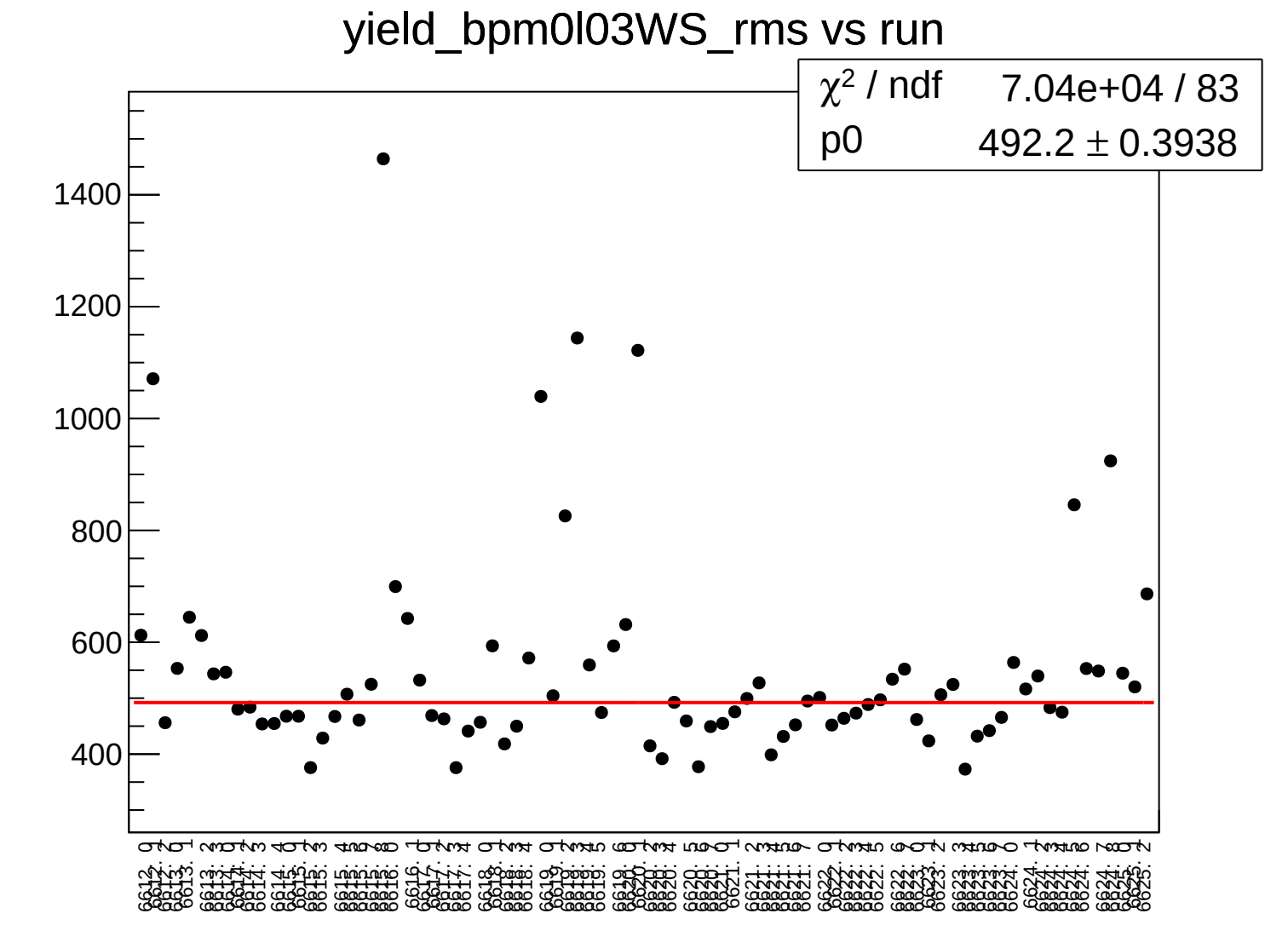

yield_bpm0l01WS_rms vs run
χ² / ndf 8.299e+04 / 83
p0 145.6 ± 0.117
400
350
300
250
200
150
100

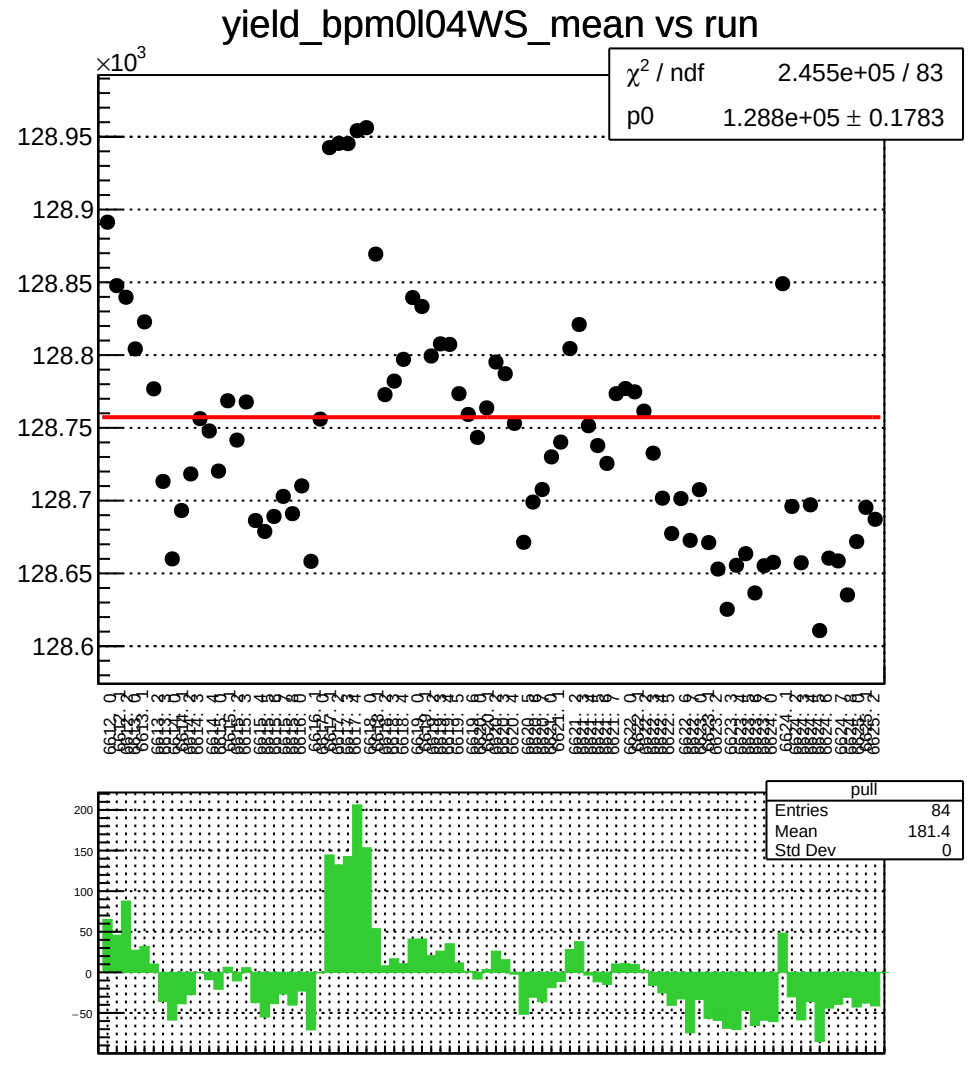

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 2.602e+06 / 83
p0 1.372e+05 ± 0.2472
138.2
138
137.8
137.6
137.4
137.2
137
136.8
136.6
136.4
pull
Entries 84
Mean −337.2
Std Dev 0
400
300
200
100
0
−100
−200
−300
pull1D
Entries 84
Mean 5.719
Std Dev 0.0478
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

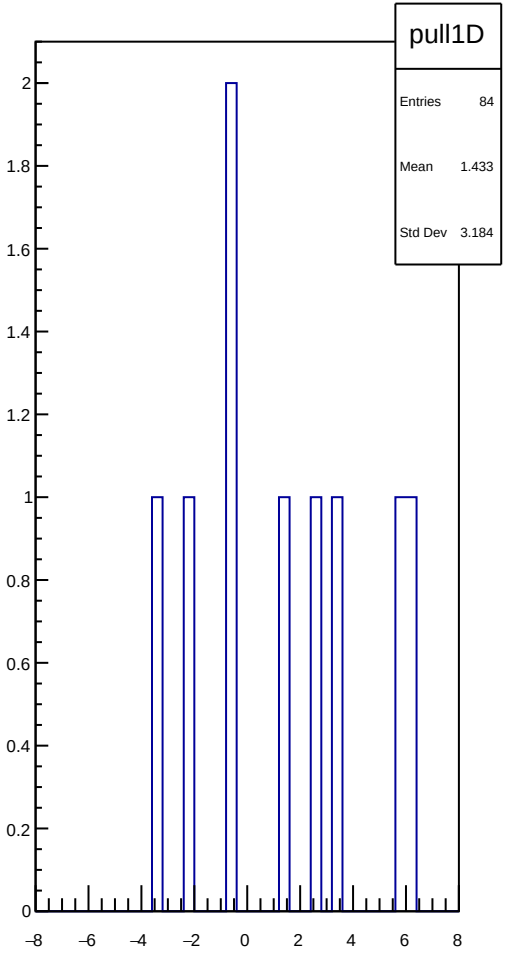

yield_bpm0l02WS_rms vs run
χ² / ndf 3.732e+04 / 83
p0 220.8 ± 0.1748
500
450
400
350
300
250
200

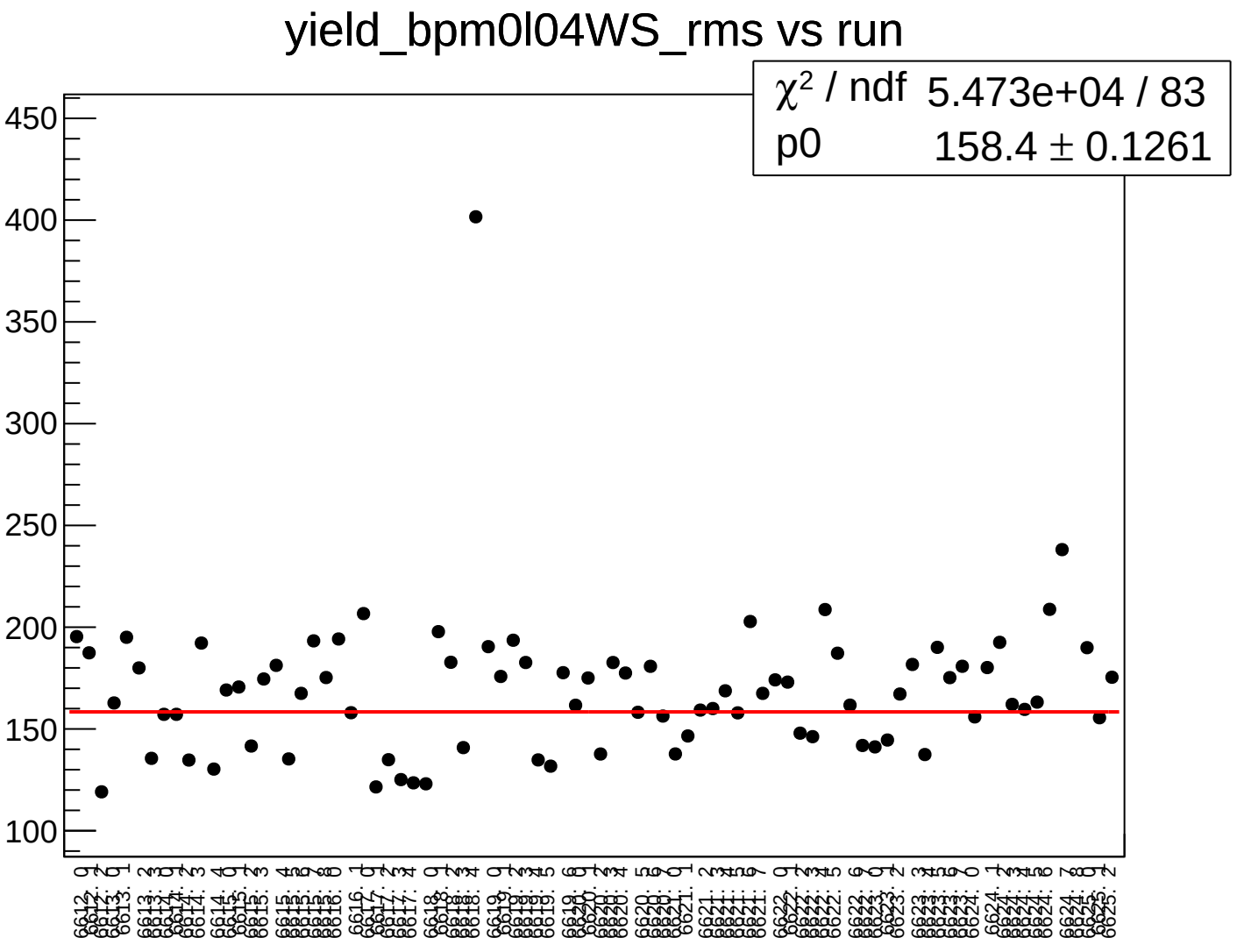

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.349e+05 / 83
p0 1.346e+05 ± 0.5569
135.2
135
134.8
134.6
134.4
134.2
134
pull
Entries 84
Mean 193.5
Std Dev 0
150
100
50
0
−50

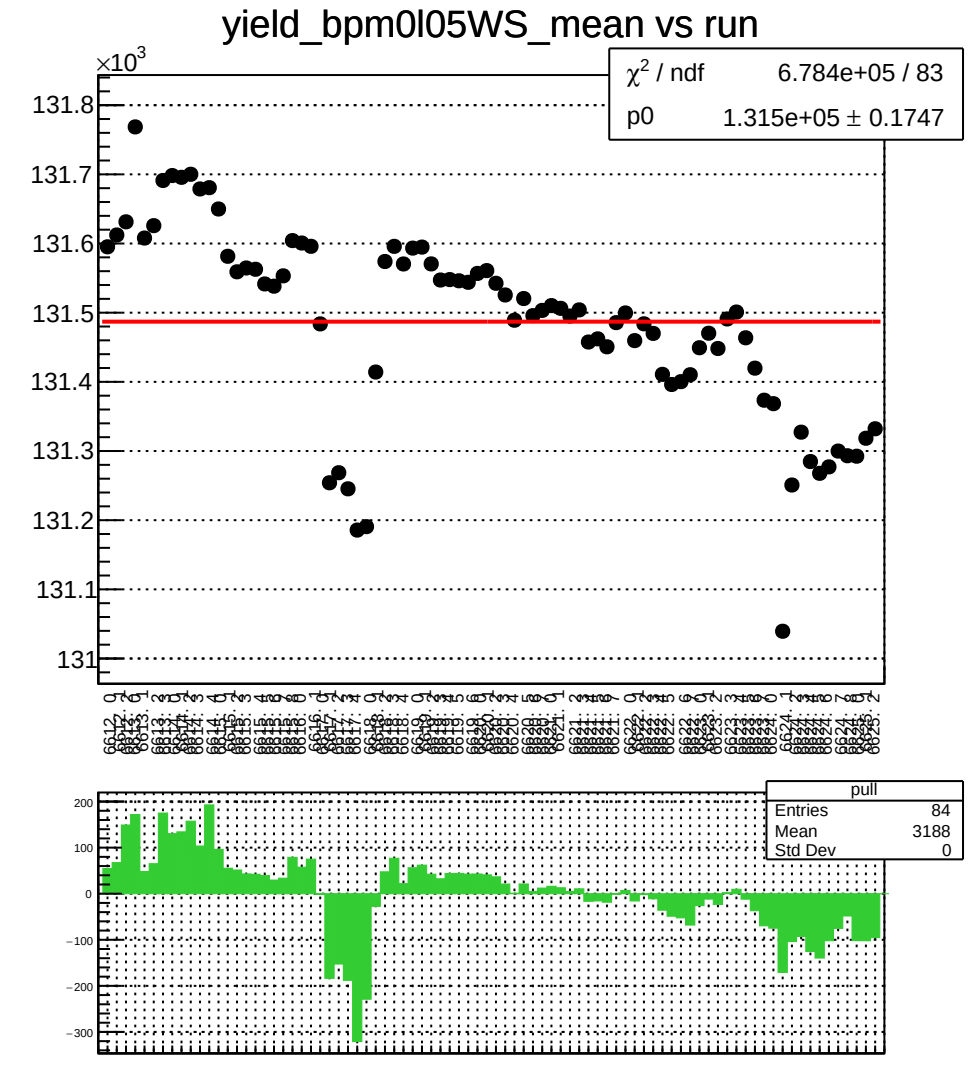

pull1D
Entries 84
Mean 0.9962
Std Dev 4.445
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

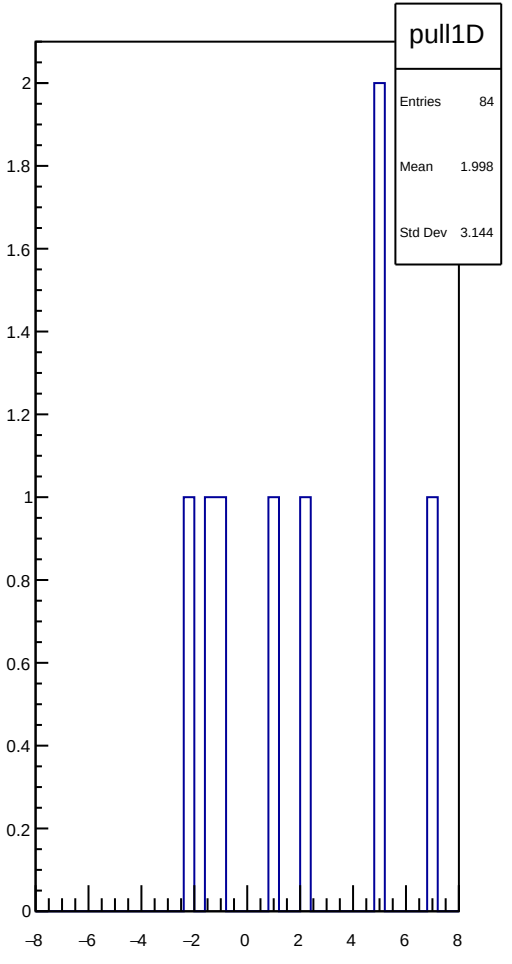

yield_bpm0l03WS_rms vs run
χ² / ndf 7.04e+04 / 83
p0 492.2 ± 0.3938
1400
1200
1000
800
600
400

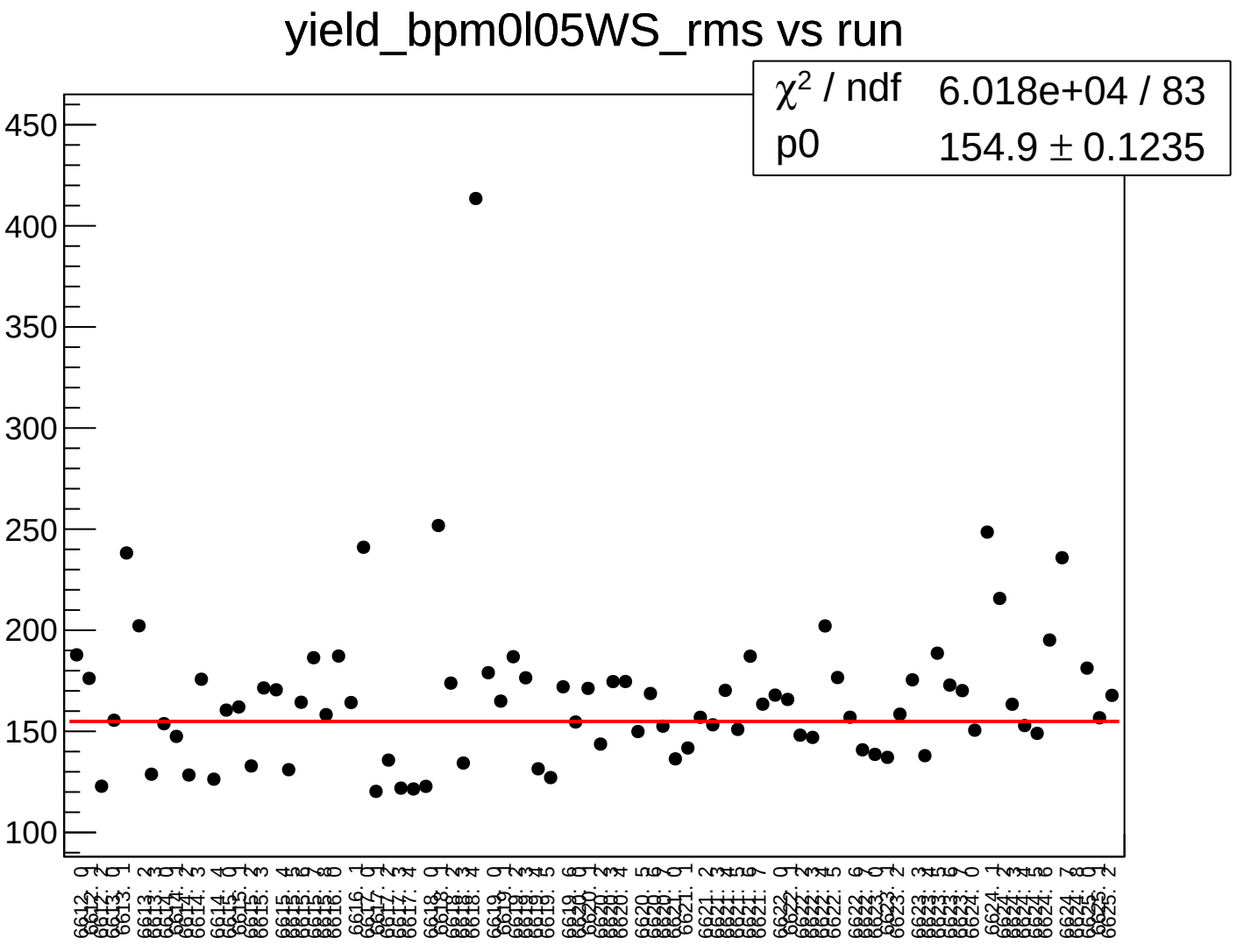

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 2.455e+05 / 83
p0 1.288e+05 ± 0.1783
128.95
128.9
128.85
128.8
128.75
128.7
128.65
128.6
pull
Entries 84
Mean 181.4
Std Dev 0
200
150
100
50
0
−50

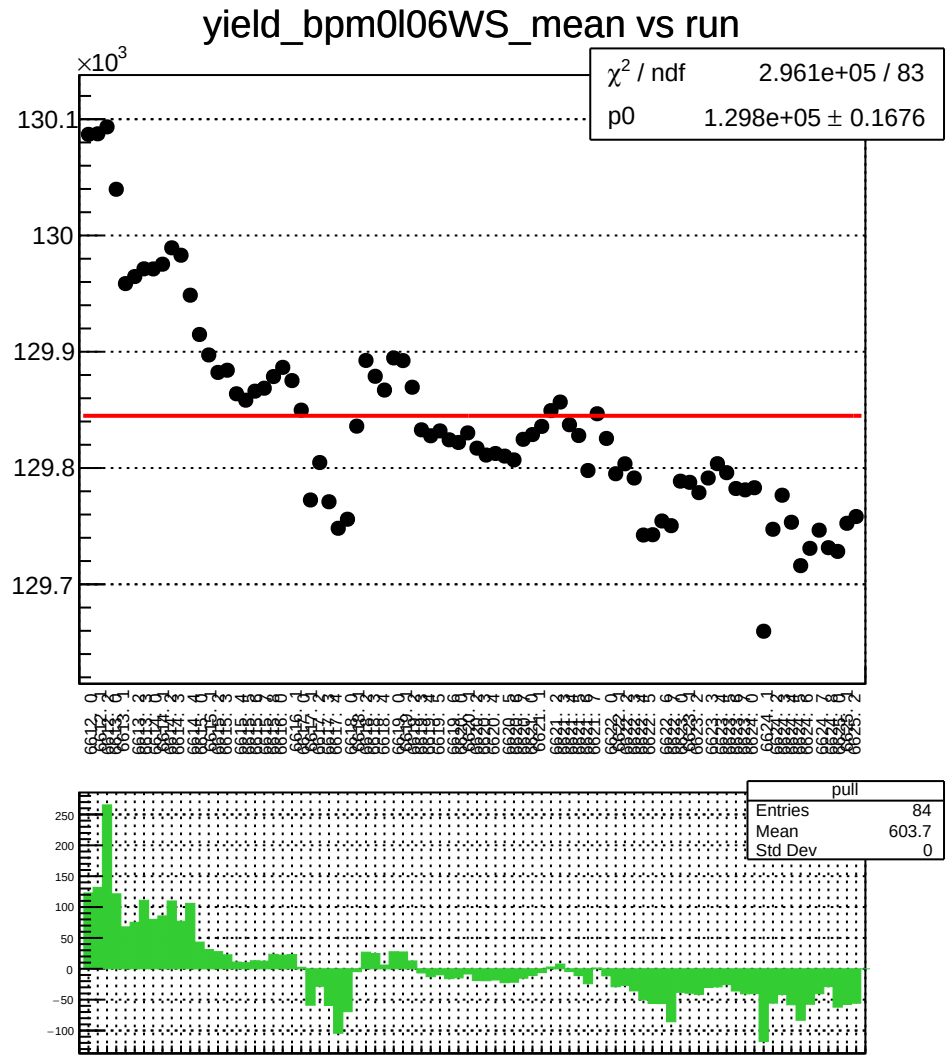

pull1D
Entries 84
Mean 1.433
Std Dev 3.184
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

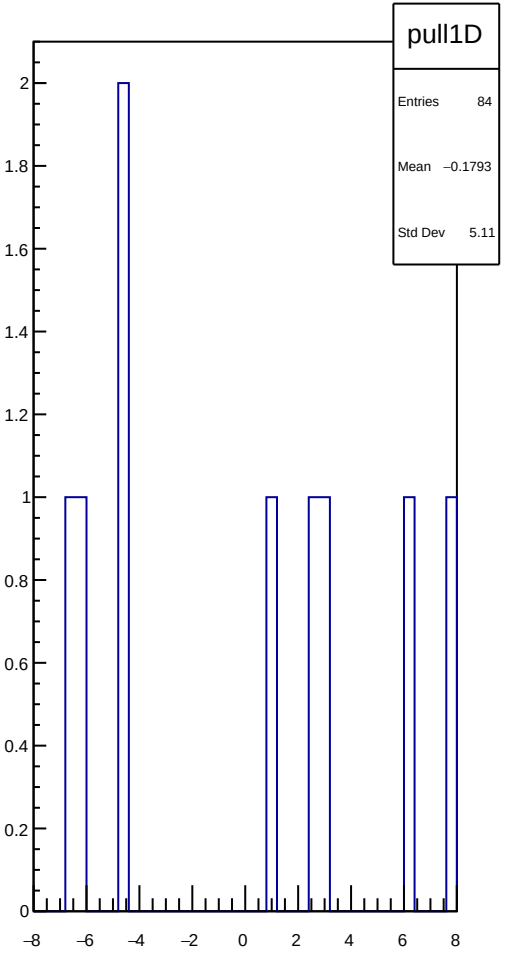

yield_bpm0l04WS_rms vs run
χ² / ndf 5.473e+04 / 83
p0 158.4 ± 0.1261
450
400
350
300
250
200
150
100

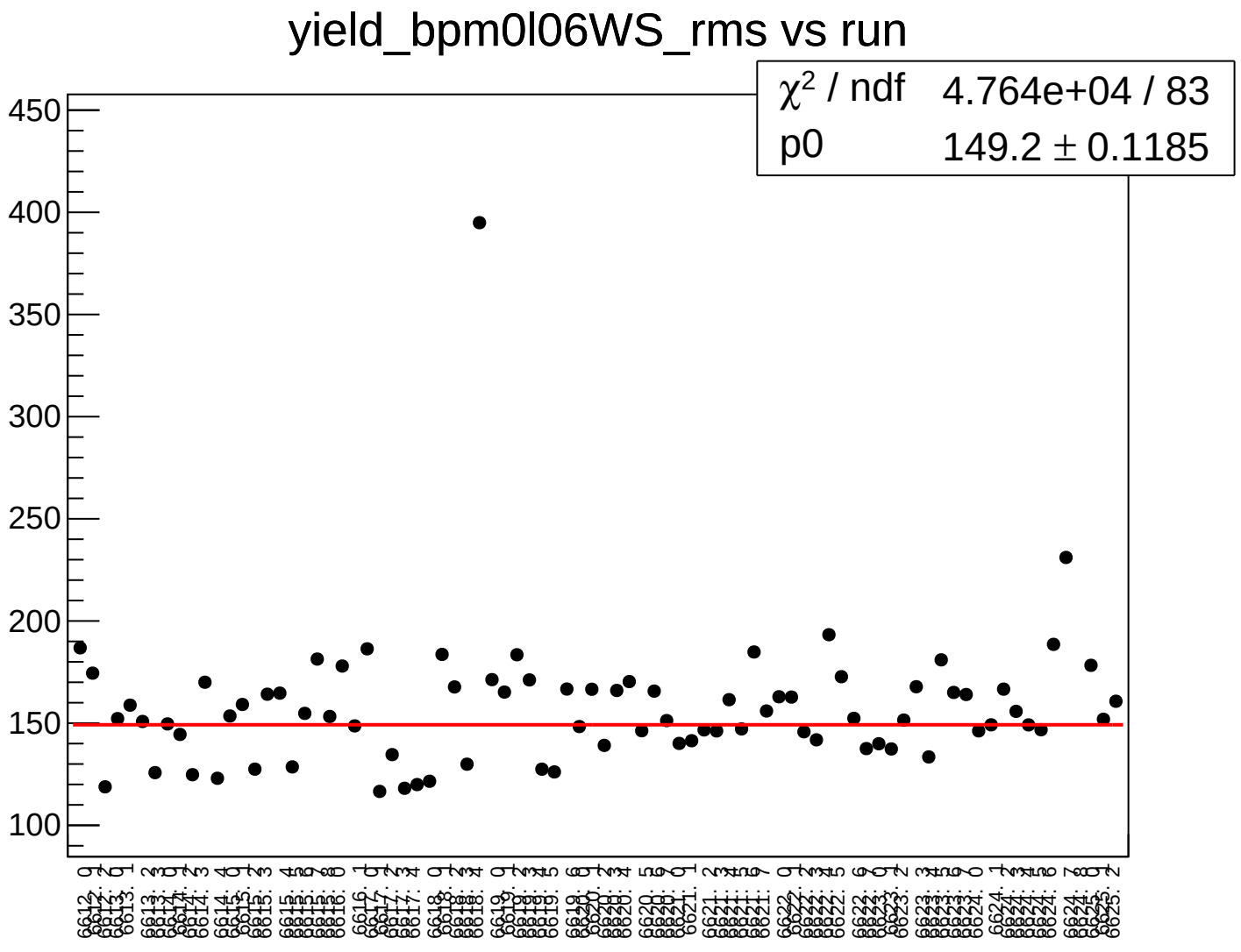

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 6.784e+05 / 83
p0 1.315e+05 ± 0.1747
131.8
131.7
131.6
131.5
131.4
131.3
131.2
131.1
131
pull
Entries 84
Mean 3188
Std Dev 0
200
100
0
−100
−200
−300

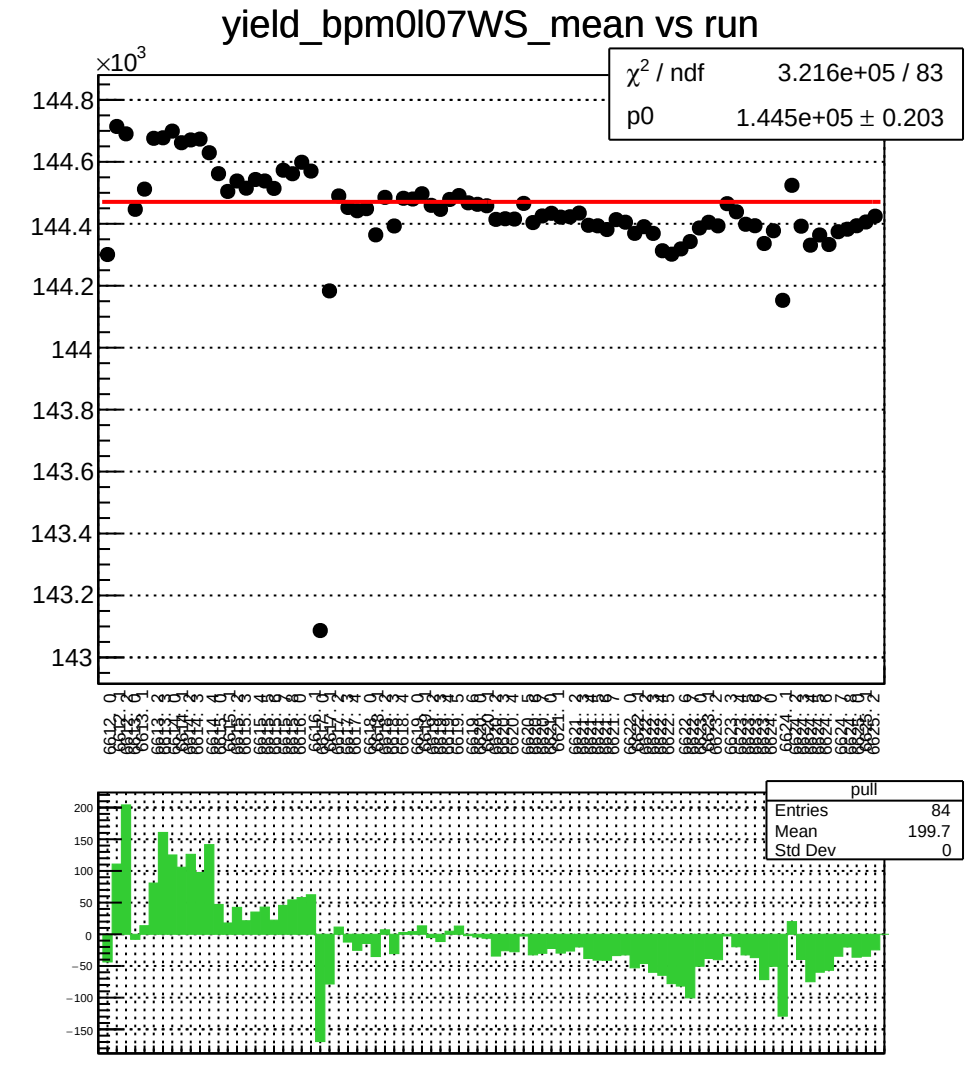

pull1D
Entries 84
Mean 1.998
Std Dev 3.144
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

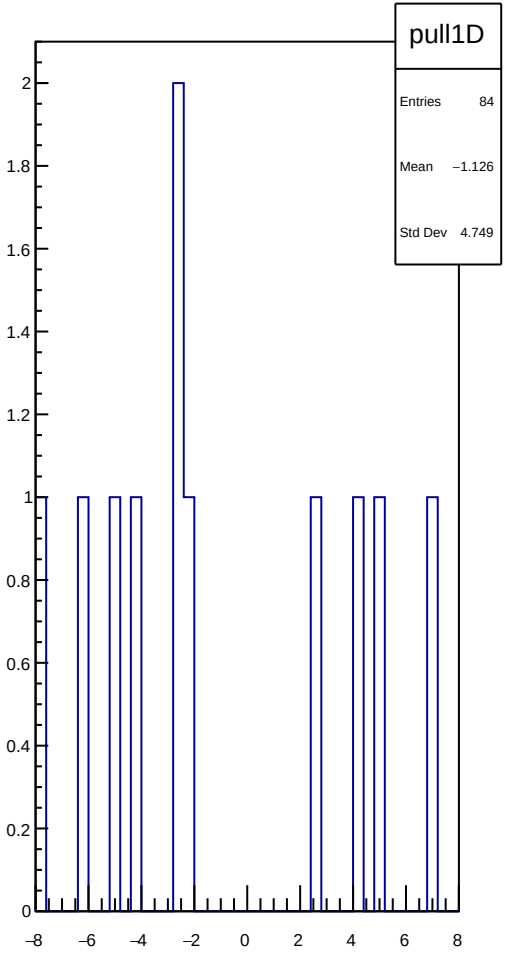

yield_bpm0l05WS_rms vs run
χ² / ndf 6.018e+04 / 83
p0 154.9 ± 0.1235
450
400
350
300
250
200
150
100

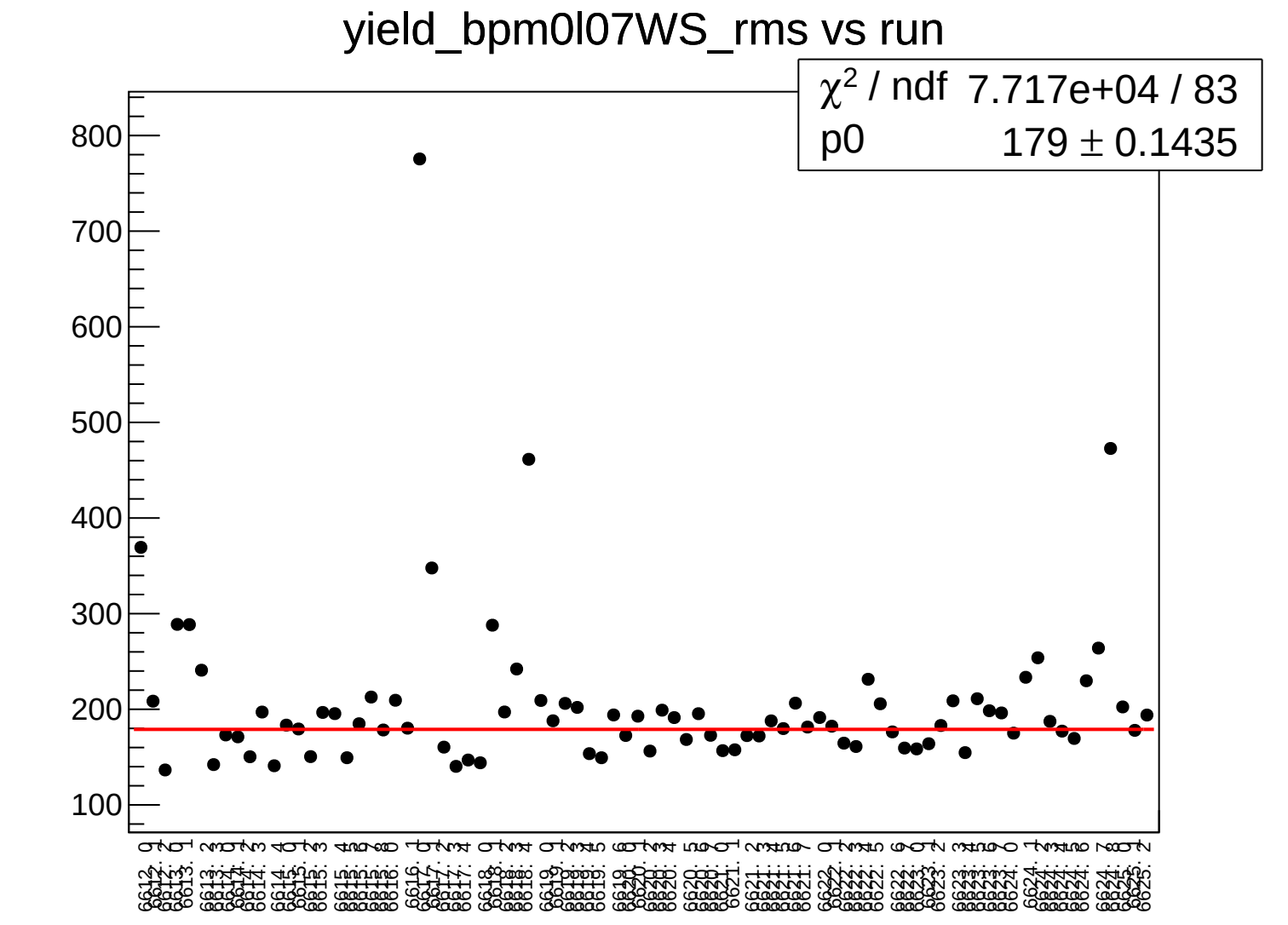

yield_bpm0l06WS_mean vs run
×10^3
130.1
130
129.9
129.8
129.7
χ² / ndf 2.961e+05 / 83
p0 1.298e+05 ± 0.1676
pull
Entries 84
Mean 603.7
Std Dev 0
250
200
150
100
50
0
−50
−100

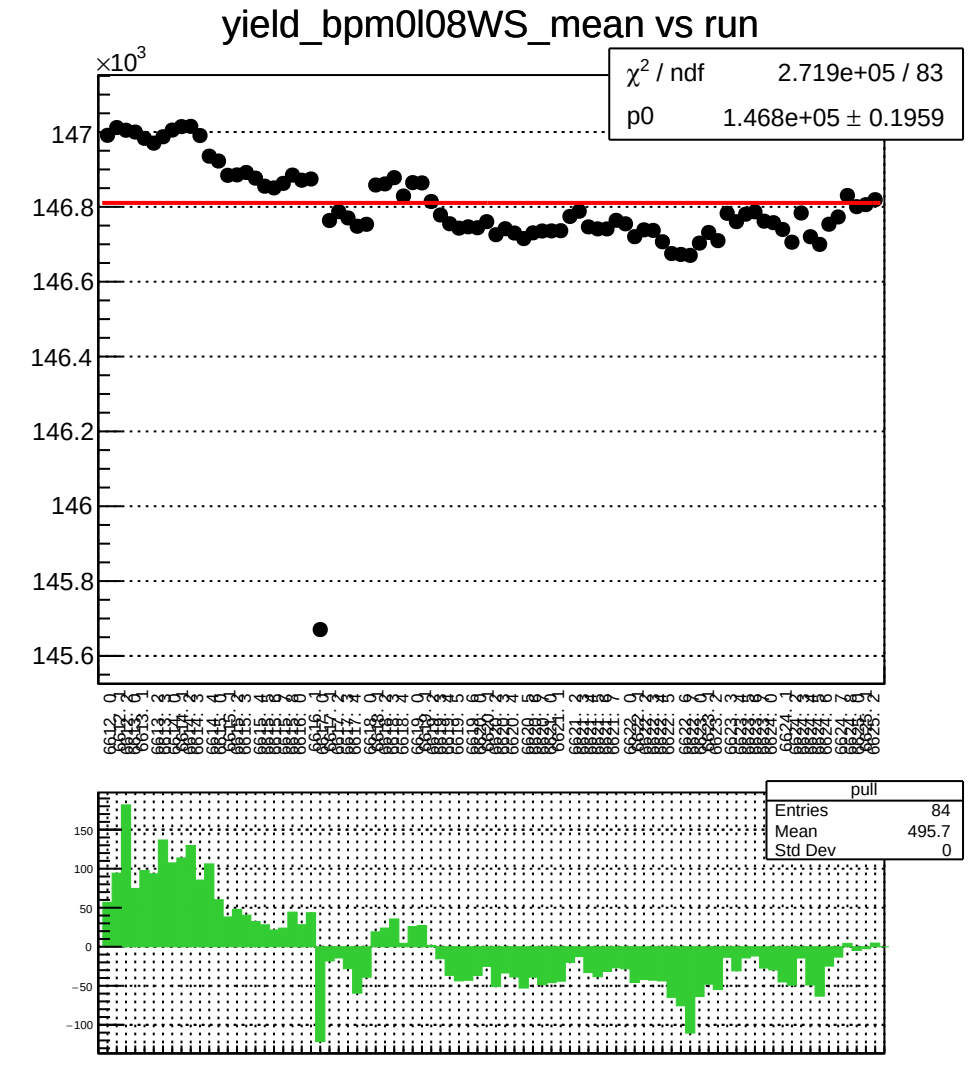

pull1D
Entries 84
Mean −0.1793
Std Dev 5.11
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

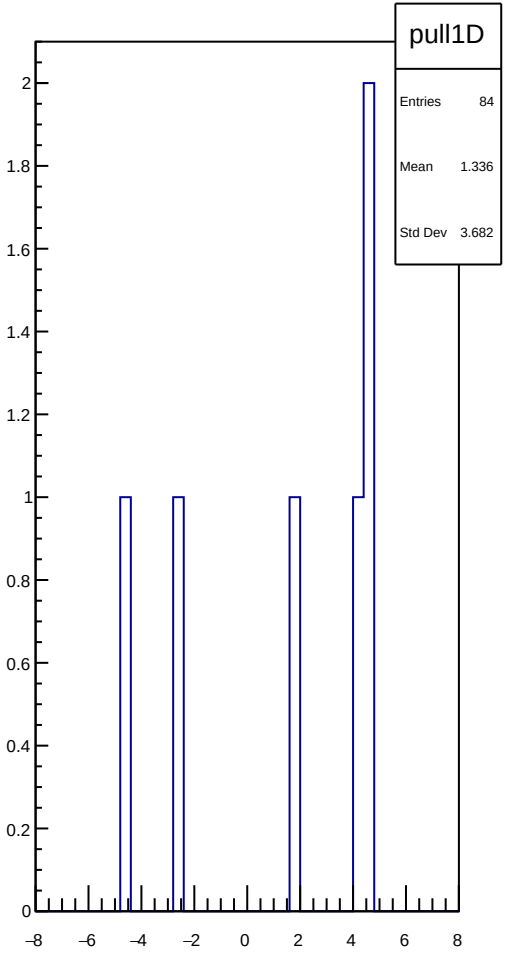

yield_bpm0l06WS_rms vs run
χ² / ndf 4.764e+04 / 83
p0 149.2 ± 0.1185
450
400
350
300
250
200
150
100

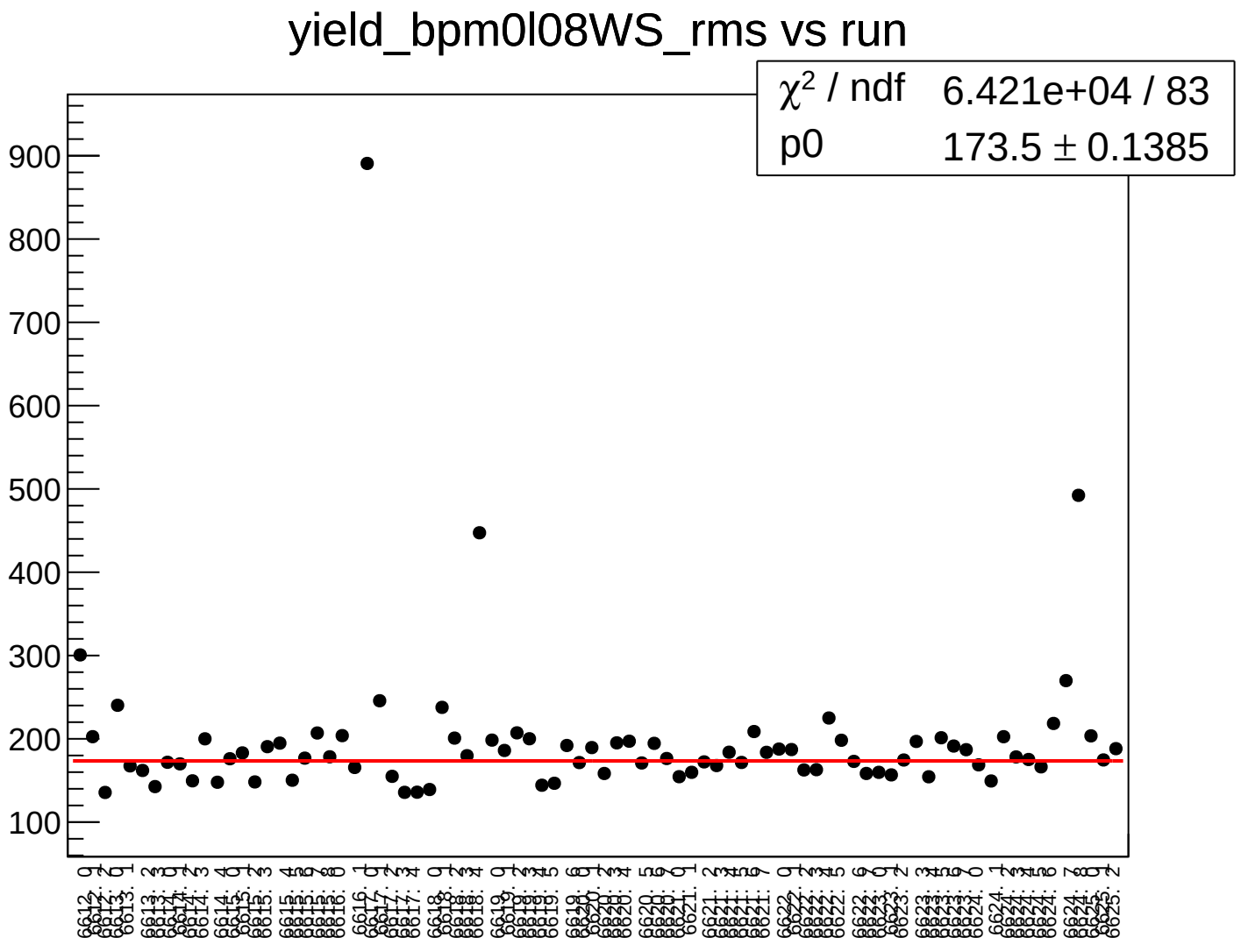

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 3.216e+05 / 83
p0 1.445e+05 ± 0.203
144.8
144.6
144.4
144.2
144
143.8
143.6
143.4
143.2
143
pull
Entries 84
Mean 199.7
Std Dev 0
200
150
100
50
0
−50
−100
−150

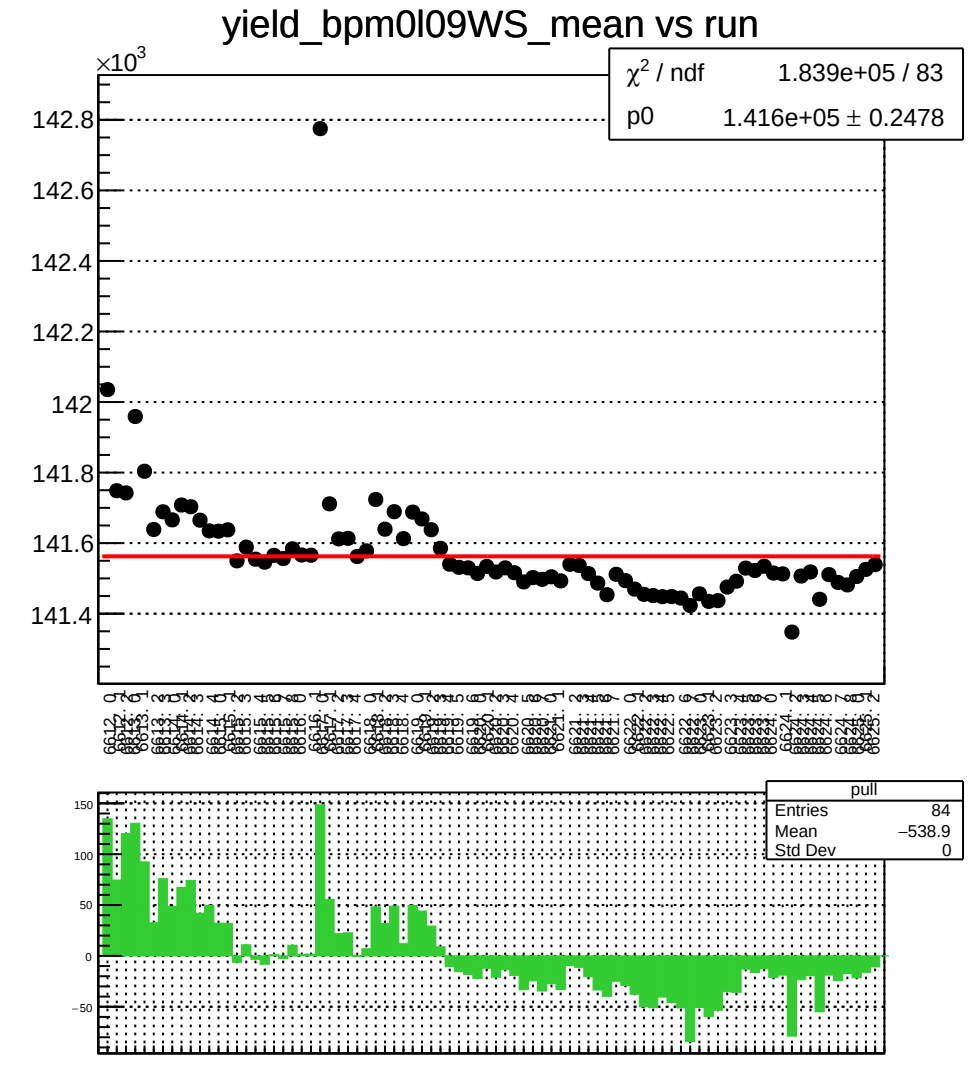

pull1D
Entries 84
Mean −1.126
Std Dev 4.749
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

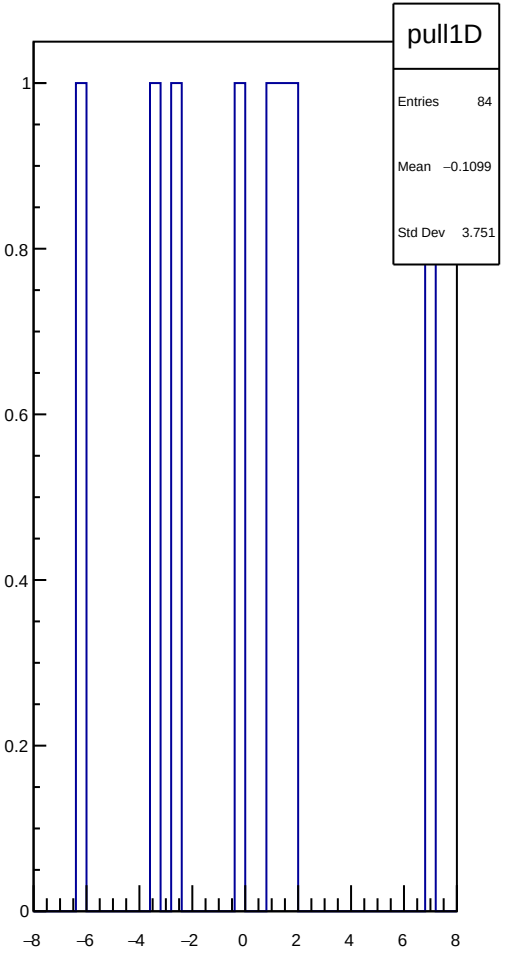

yield_bpm0l07WS_rms vs run
χ² / ndf 7.717e+04 / 83
p0 179 ± 0.1435
800
700
600
500
400
300
200
100

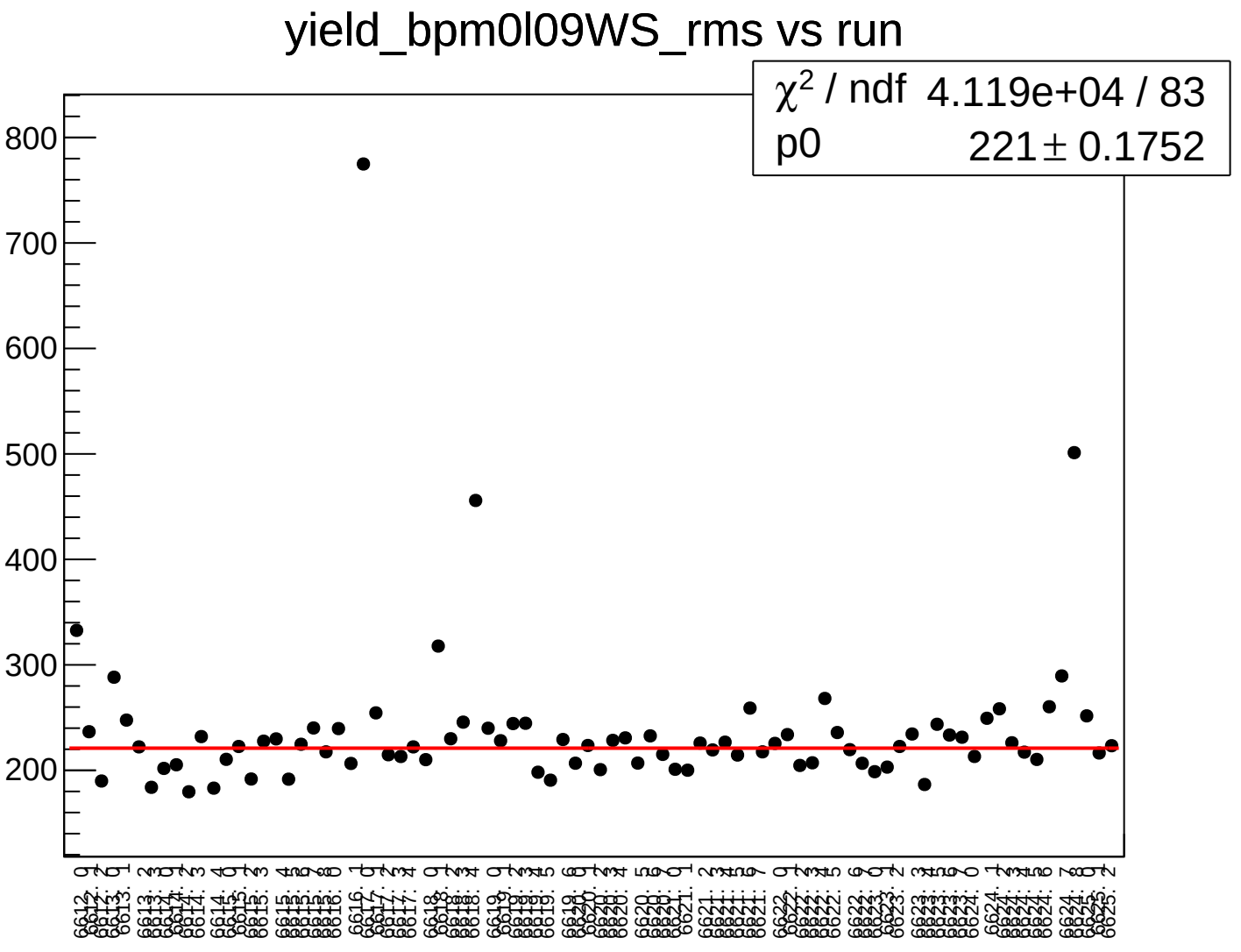

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 2.719e+05 / 83
p0 1.468e+05 ± 0.1959
147
146.8
146.6
146.4
146.2
146
145.8
145.6
pull
Entries 84
Mean 495.7
Std Dev 0
150
100
50
0
−50
−100

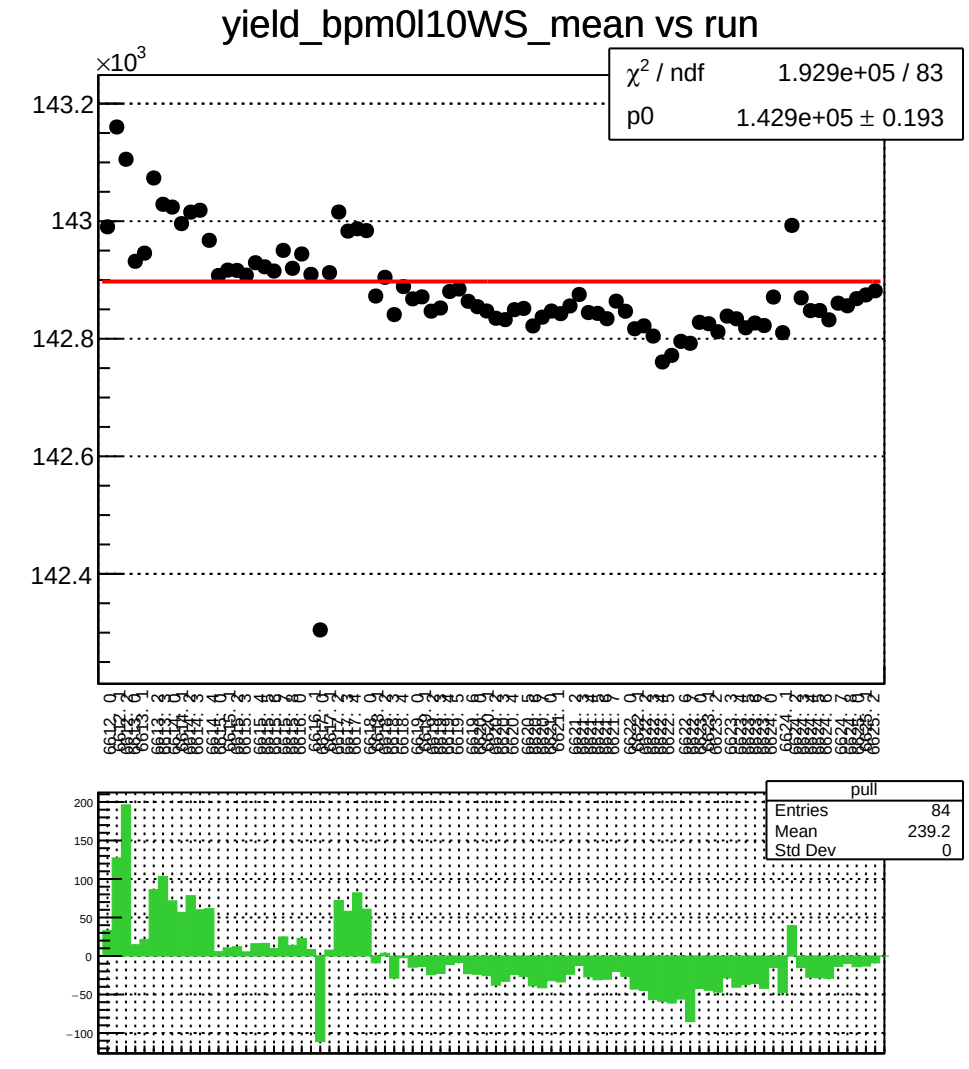

pull1D
Entries 84
Mean 1.336
Std Dev 3.682
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

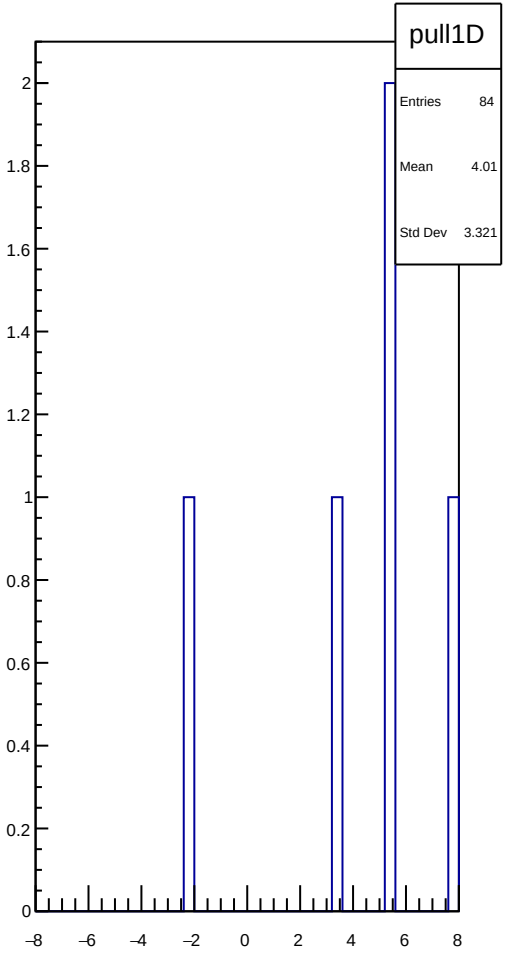

yield_bpm0l08WS_rms vs run
χ^2 / ndf 6.421e+04 / 83
p0 173.5 ± 0.1385
900
800
700
600
500
400
300
200
100

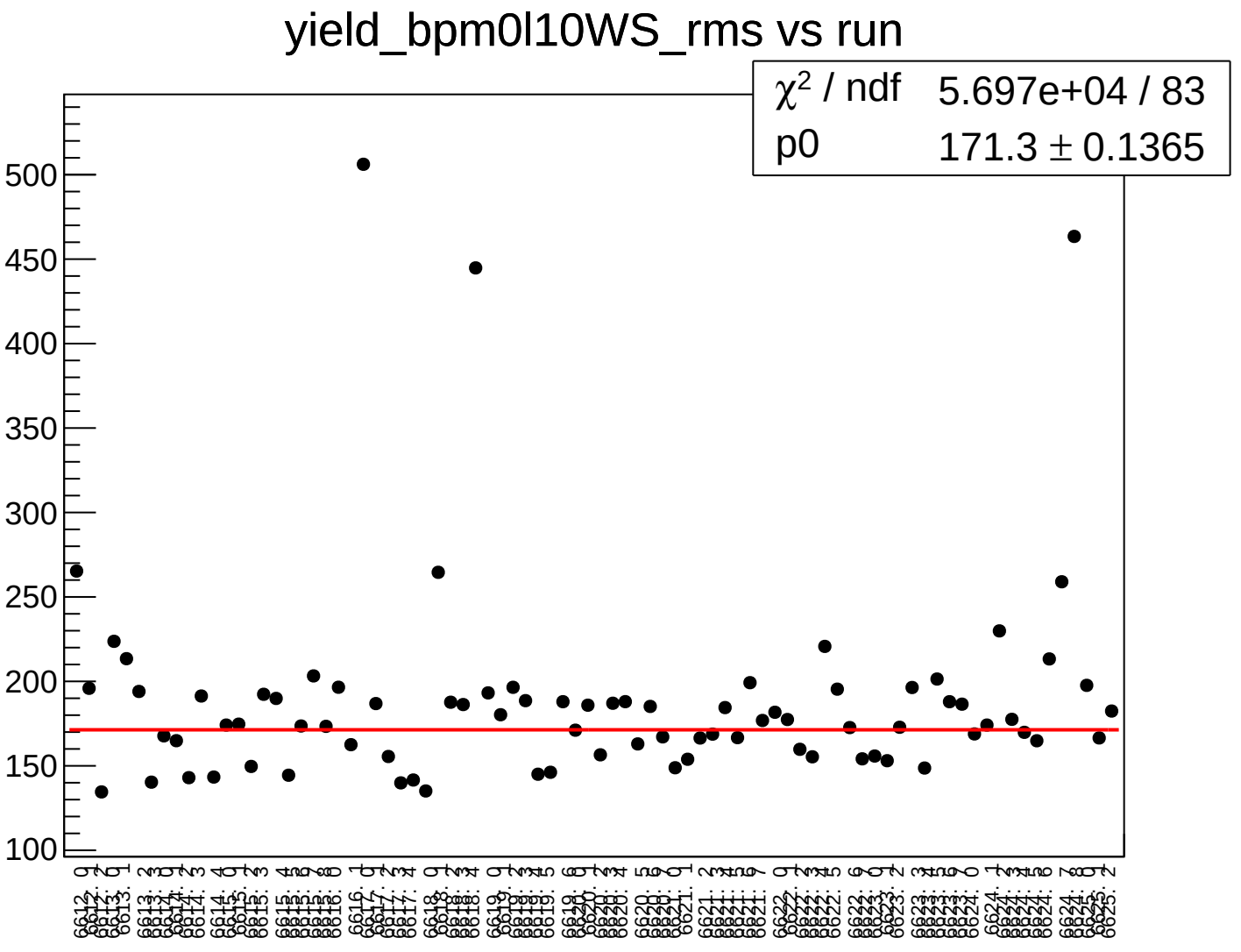

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.839e+05 / 83
p0 1.416e+05 ± 0.2478
142.8
142.6
142.4
142.2
142
141.8
141.6
141.4
pull
Entries 84
Mean −538.9
Std Dev 0
150
100
50
0
−50

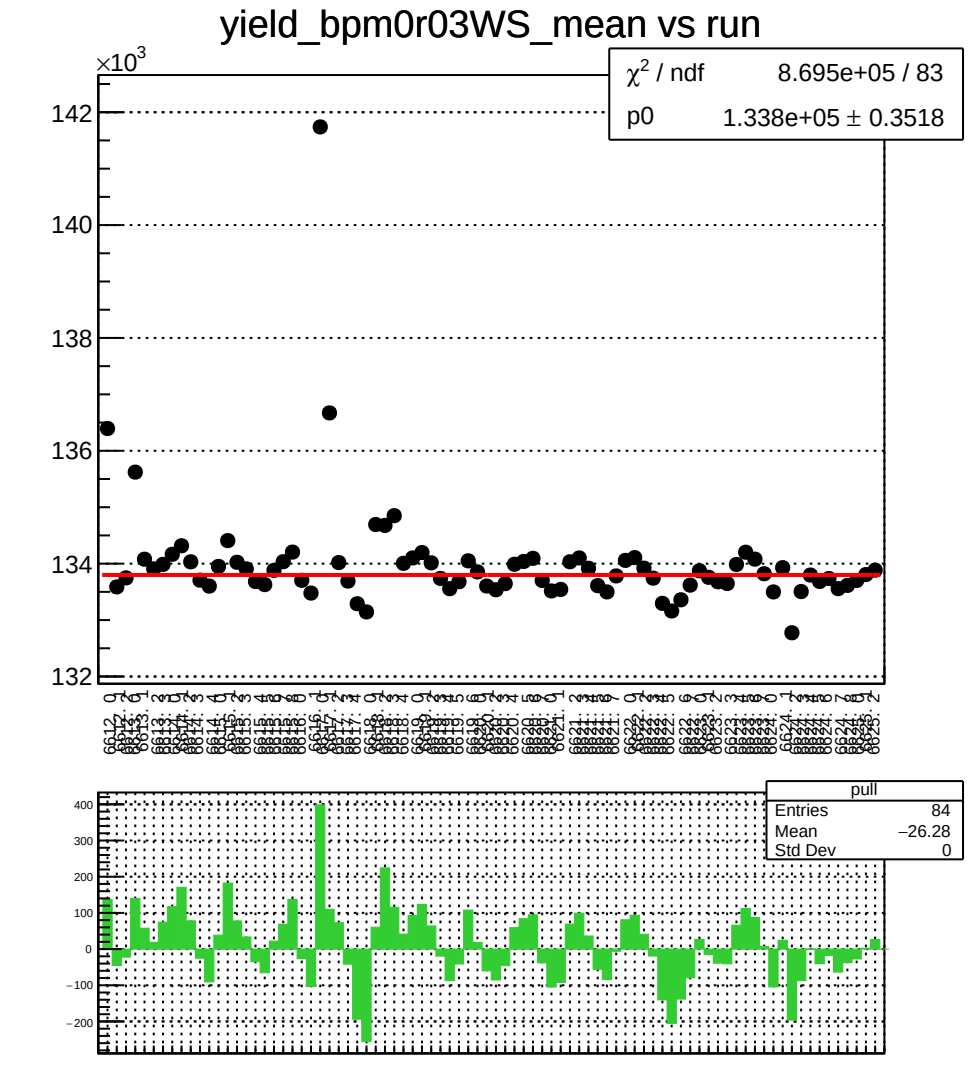

pull1D
Entries 84
Mean −0.1099
Std Dev 3.751
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

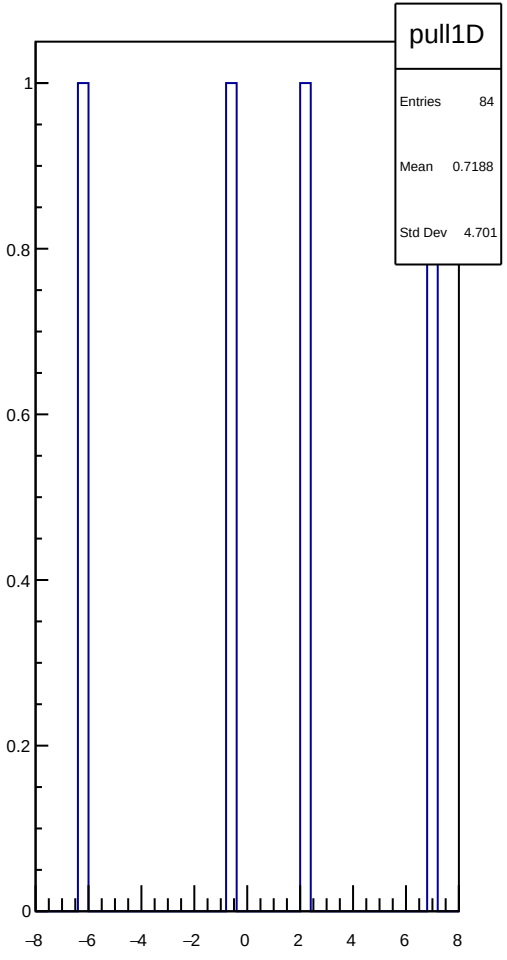

yield_bpm0l09WS_rms vs run
χ^2 / ndf 4.119e+04 / 83
p0 221 ± 0.1752
800
700
600
500
400
300
200

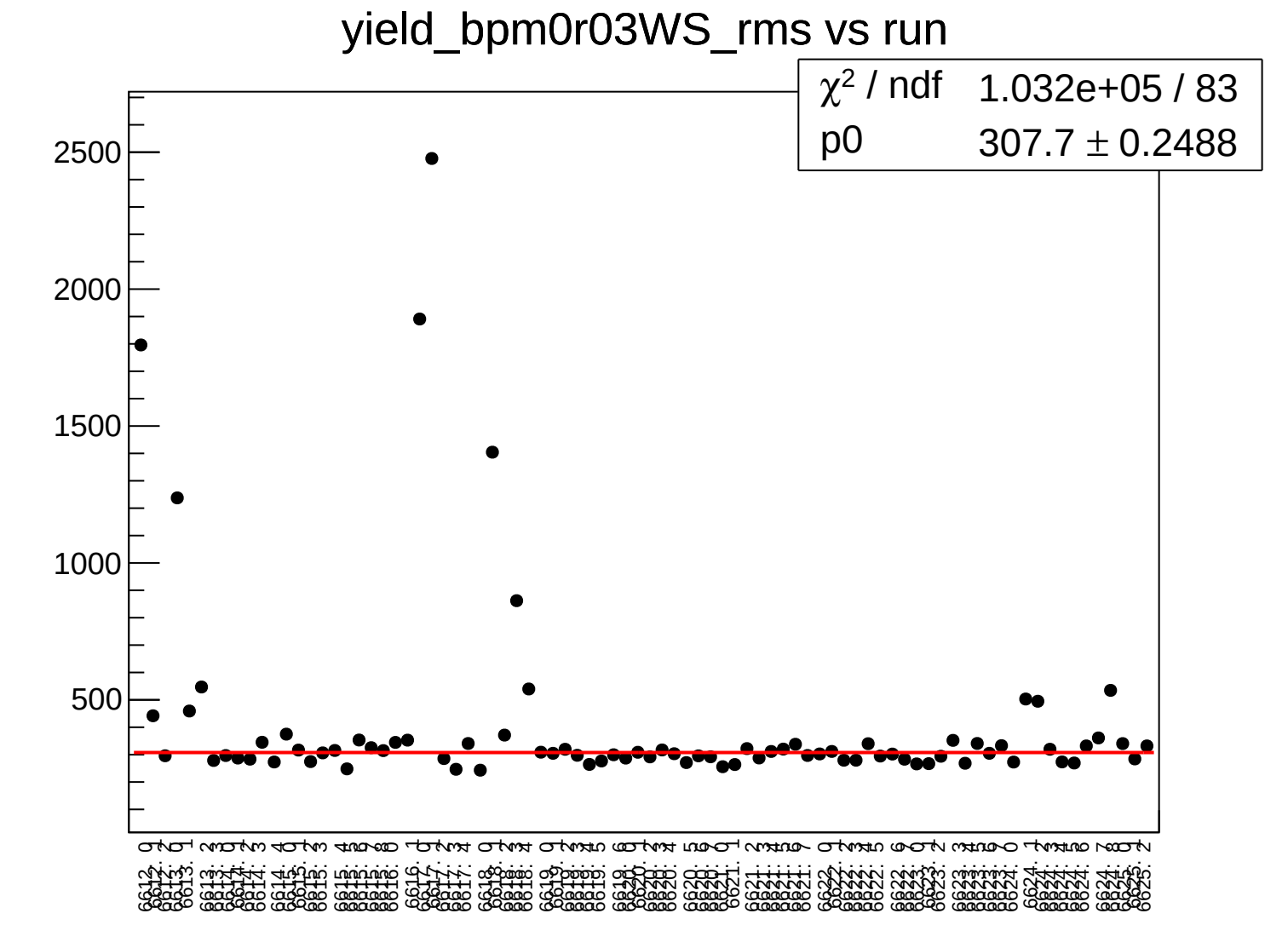

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.929e+05 / 83
p0 1.429e+05 ± 0.193
143.2
143
142.8
142.6
142.4
pull
Entries 84
Mean 239.2
Std Dev 0
200
150
100
50
0
−50
−100

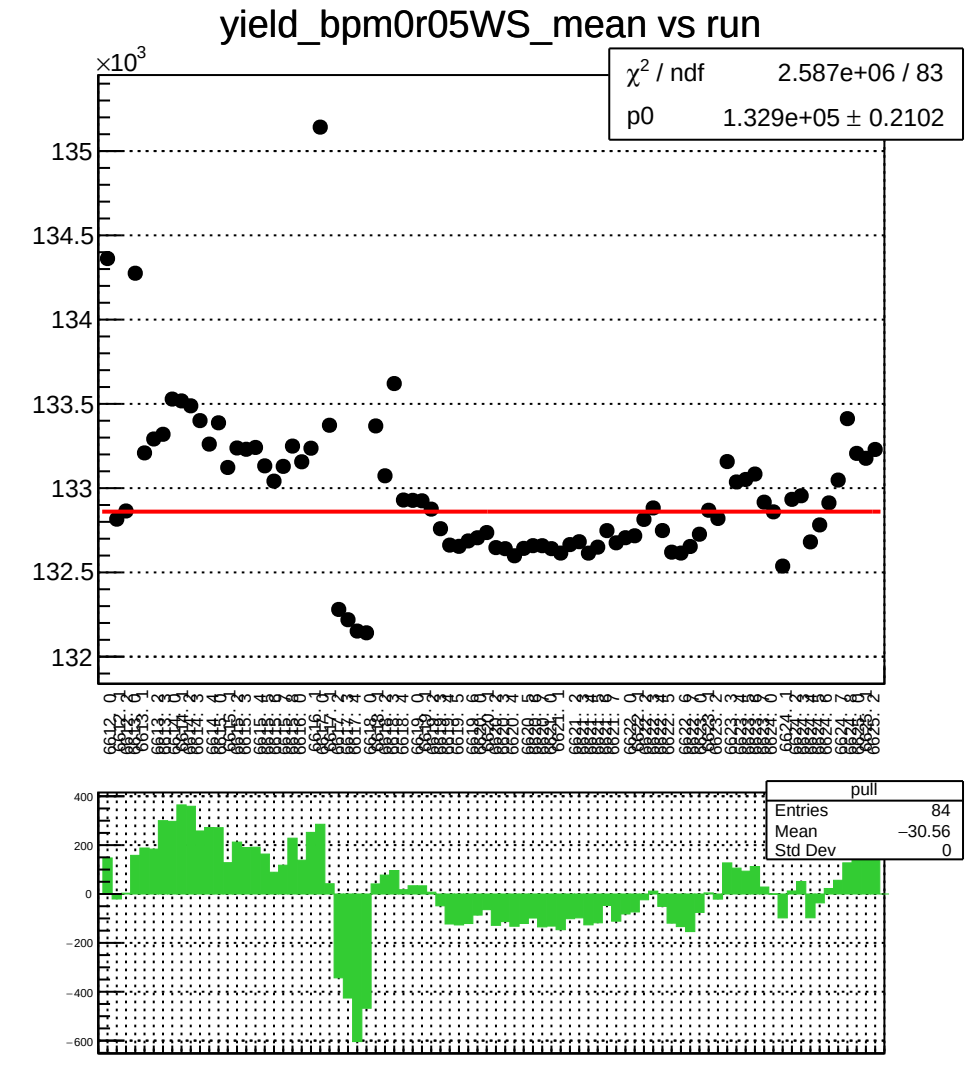

pull1D
Entries 84
Mean 4.01
Std Dev 3.321
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

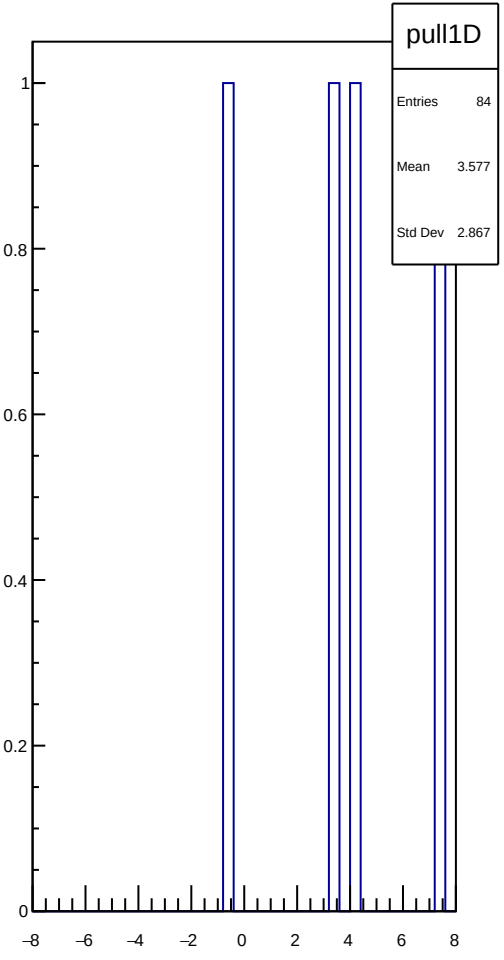

yield_bpm0l10WS_rms vs run
χ² / ndf 5.697e+04 / 83
p0 171.3 ± 0.1365
500
450
400
350
300
250
200
150
100

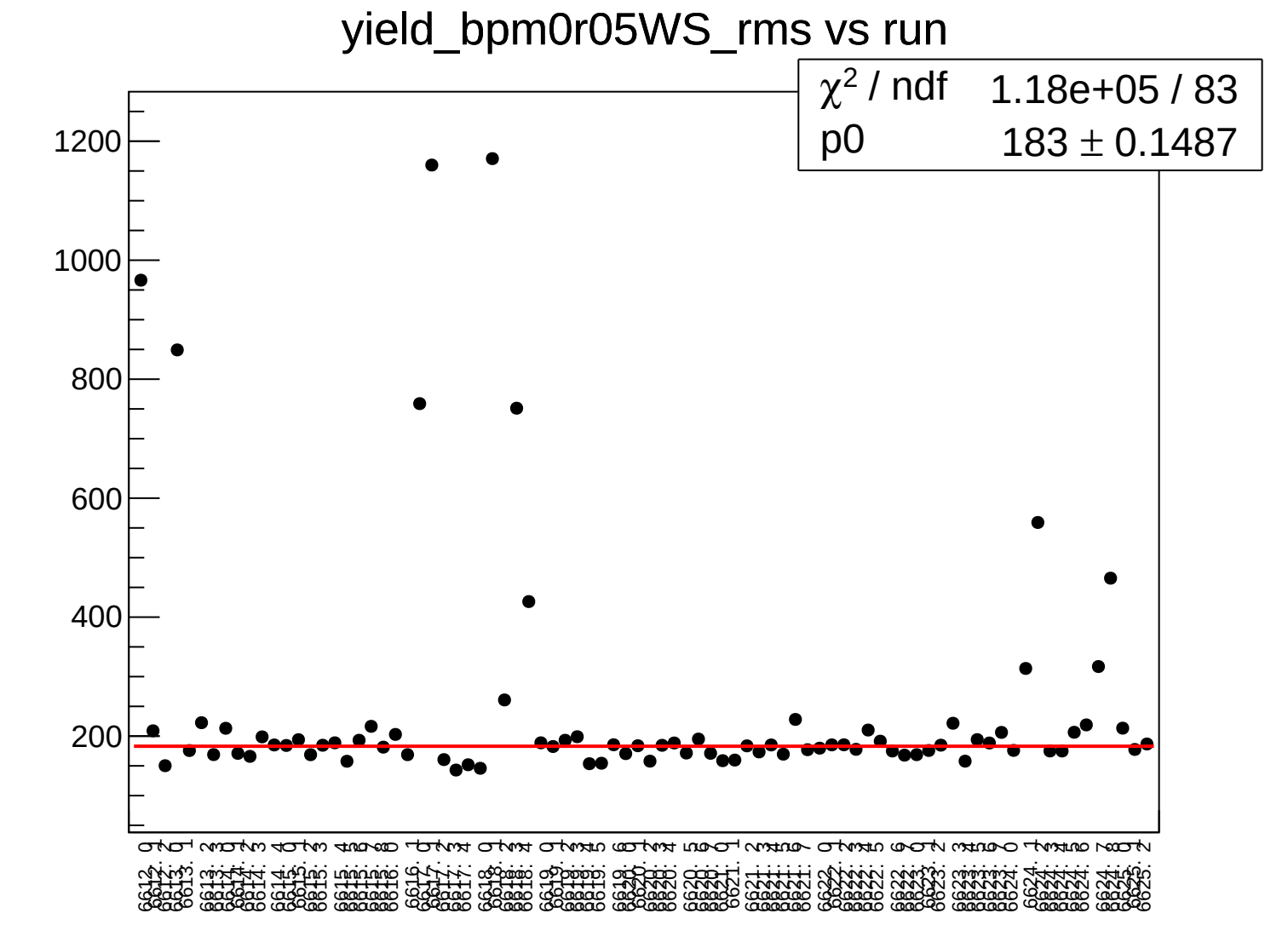

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 8.695e+05 / 83
p0 1.338e+05 ± 0.3518
142
140
138
136
134
132
pull
Entries 84
Mean −26.28
Std Dev 0
400
300
200
100
0
−100
−200

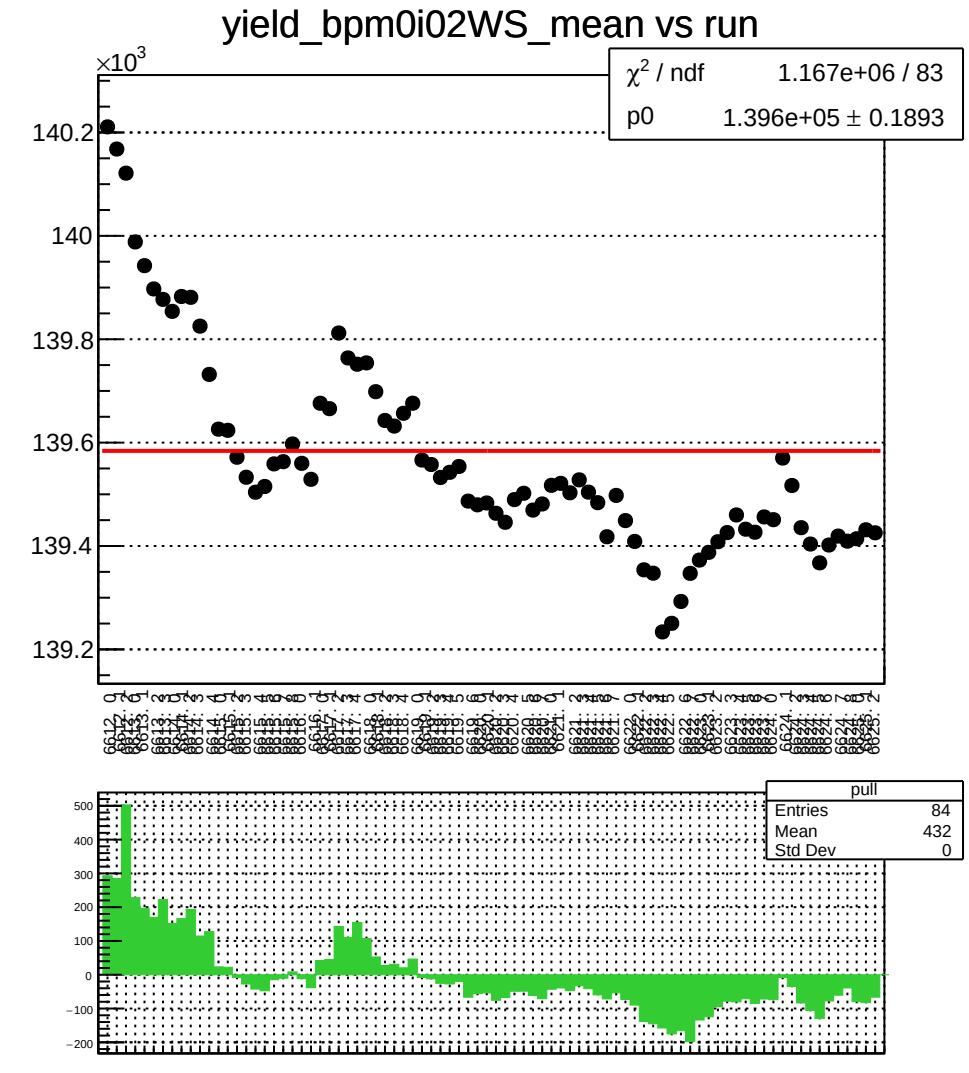

pull1D
Entries 84
Mean 0.7188
Std Dev 4.701
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

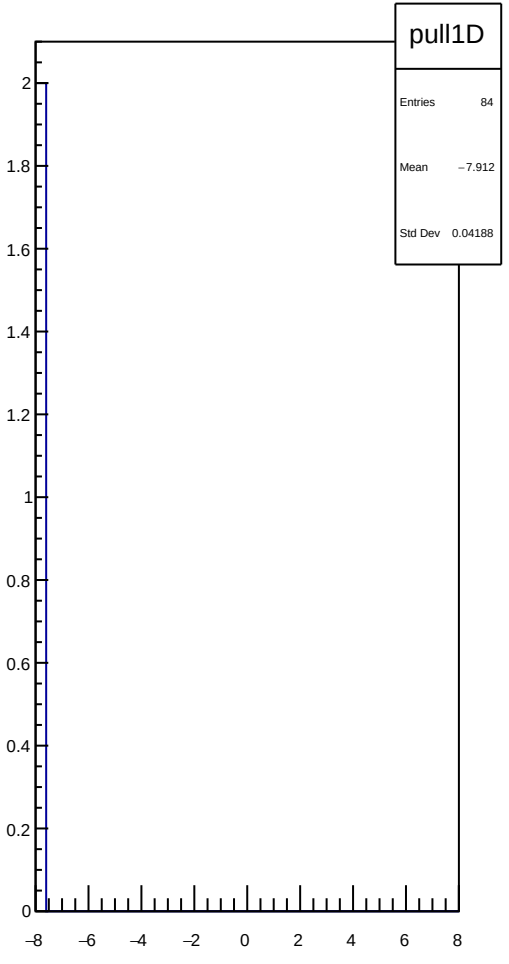

yield_bpm0r03WS_rms vs run
χ² / ndf 1.032e+05 / 83
p0 307.7 ± 0.2488
2500
2000
1500
1000
500

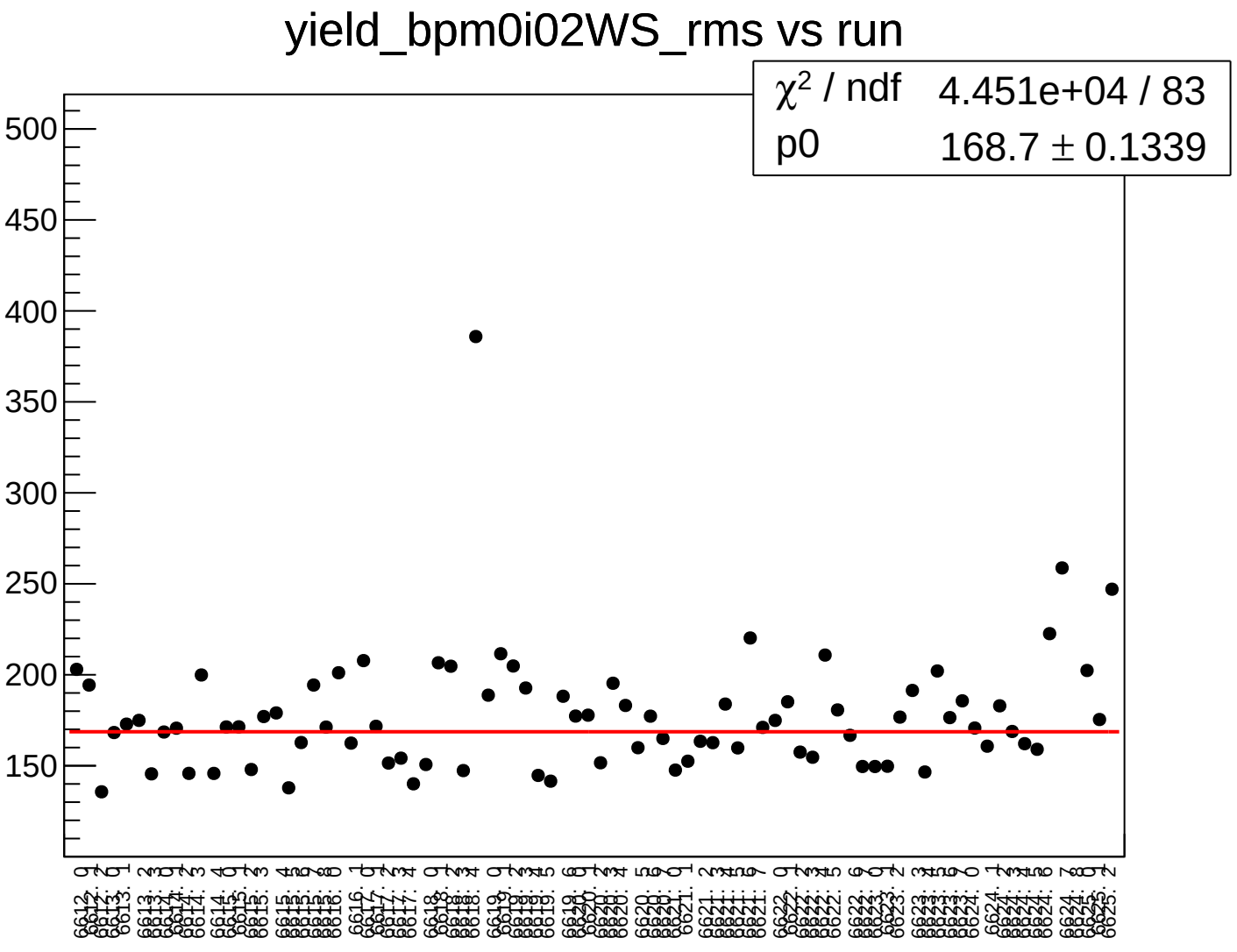

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 2.587e+06 / 83
p0 1.329e+05 ± 0.2102
135
134.5
134
133.5
133
132.5
132
pull
Entries 84
Mean −30.56
Std Dev 0
400
200
0
−200
−400
−600

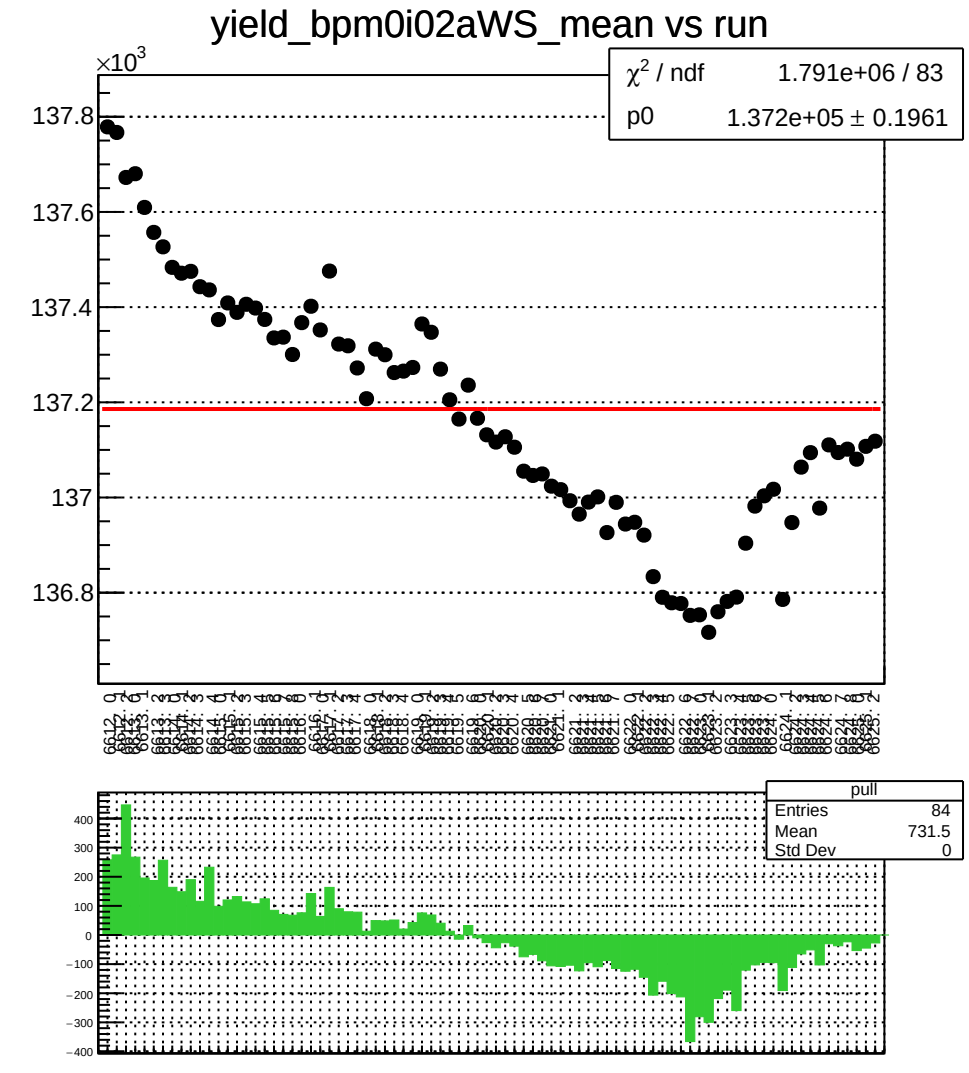

pull1D
Entries 84
Mean 3.577
Std Dev 2.867
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

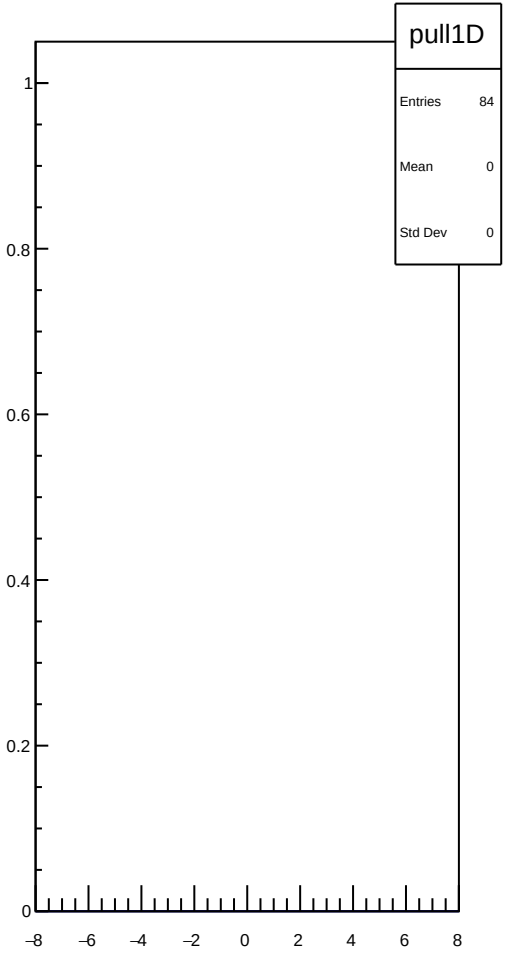

yield_bpm0r05WS_rms vs run
χ² / ndf 1.18e+05 / 83
p0 183 ± 0.1487
1200
1000
800
600
400
200

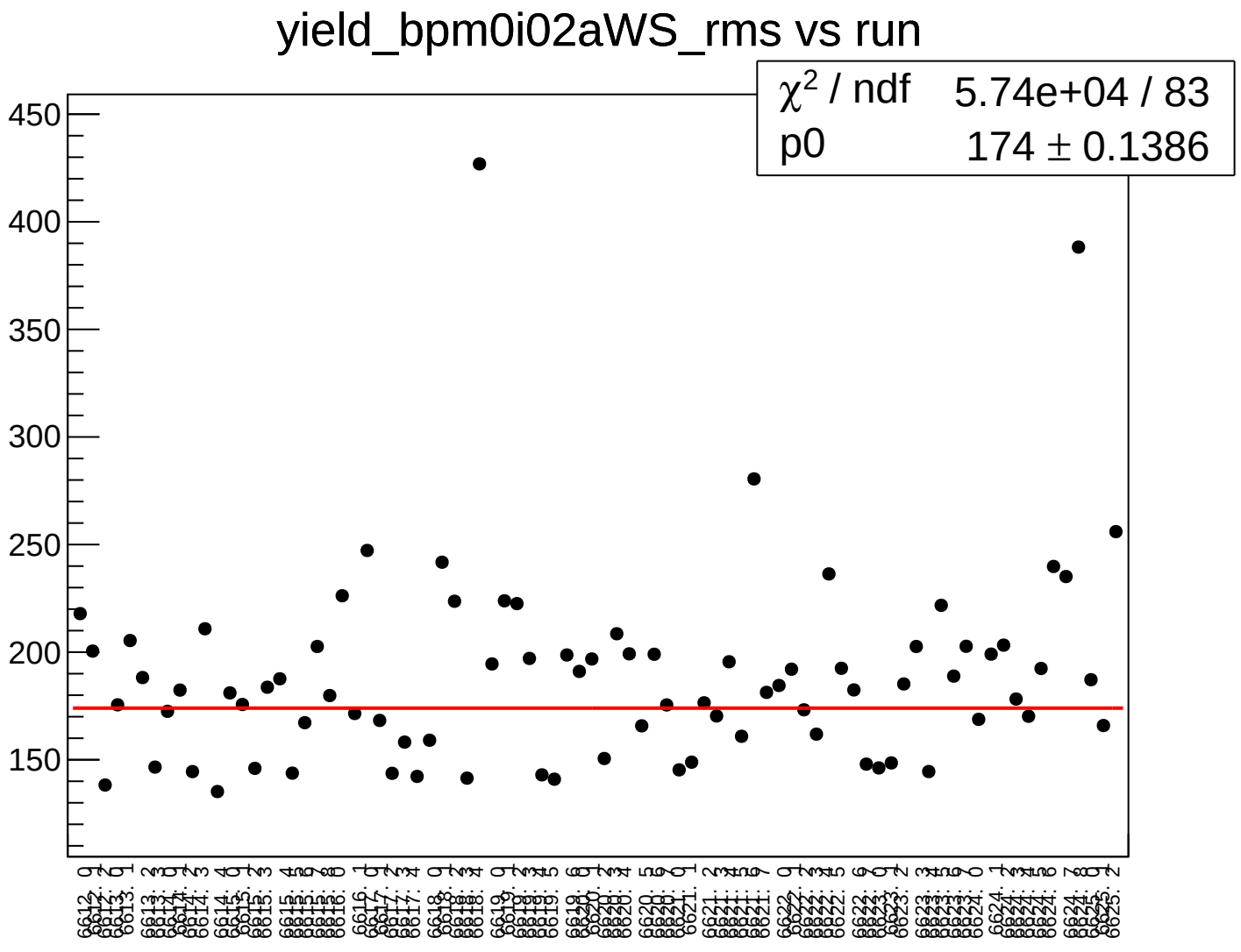

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.167e+06 / 83
p0 1.396e+05 ± 0.1893
140.2
140
139.8
139.6
139.4
139.2
pull
Entries 84
Mean 432
Std Dev 0
500
400
300
200
100
0
−100
−200

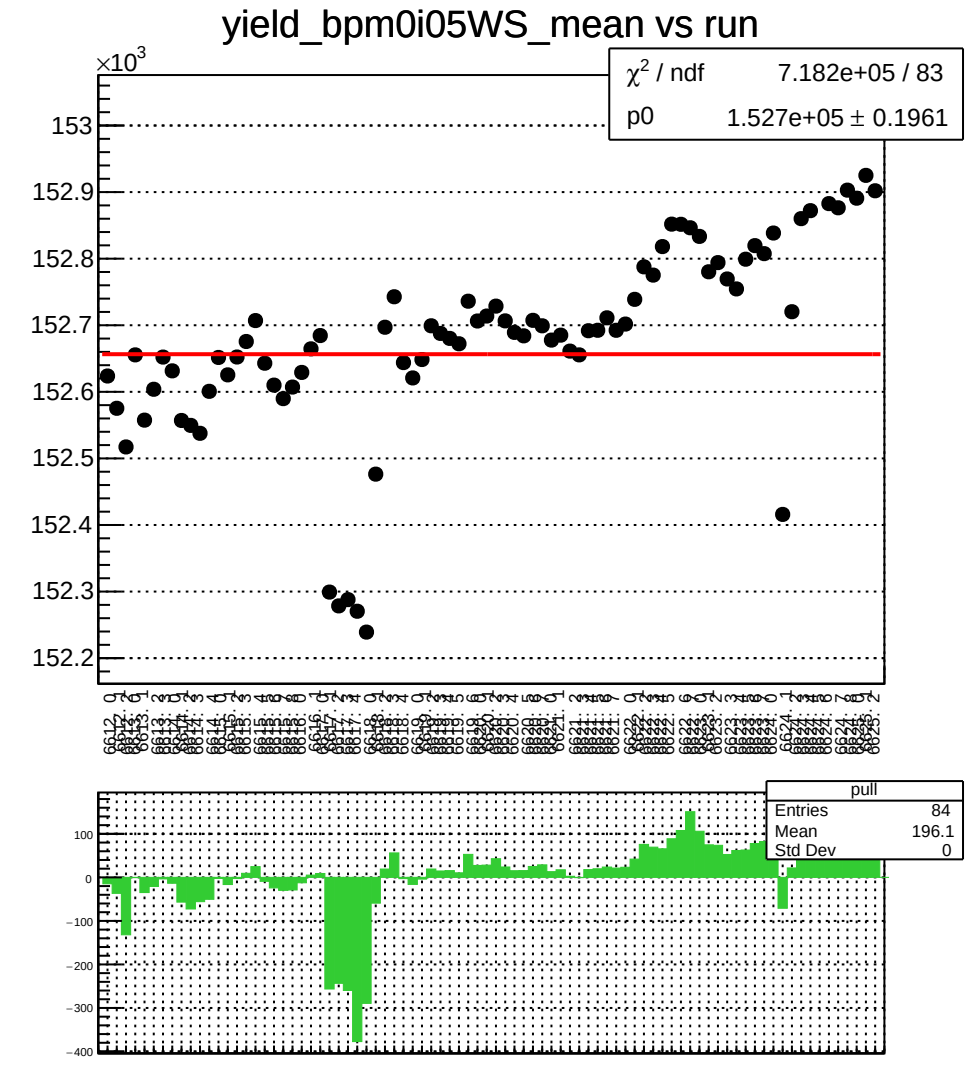

pull1D
Entries 84
Mean −7.912
Std Dev 0.04188
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

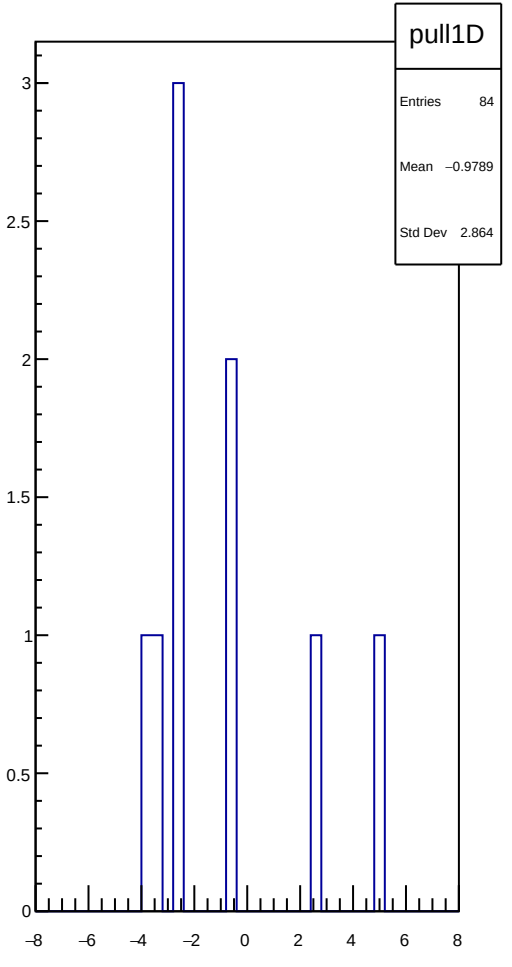

yield_bpm0i02WS_rms vs run
χ² / ndf 4.451e+04 / 83
p0 168.7 ± 0.1339
500
450
400
350
300
250
200
150

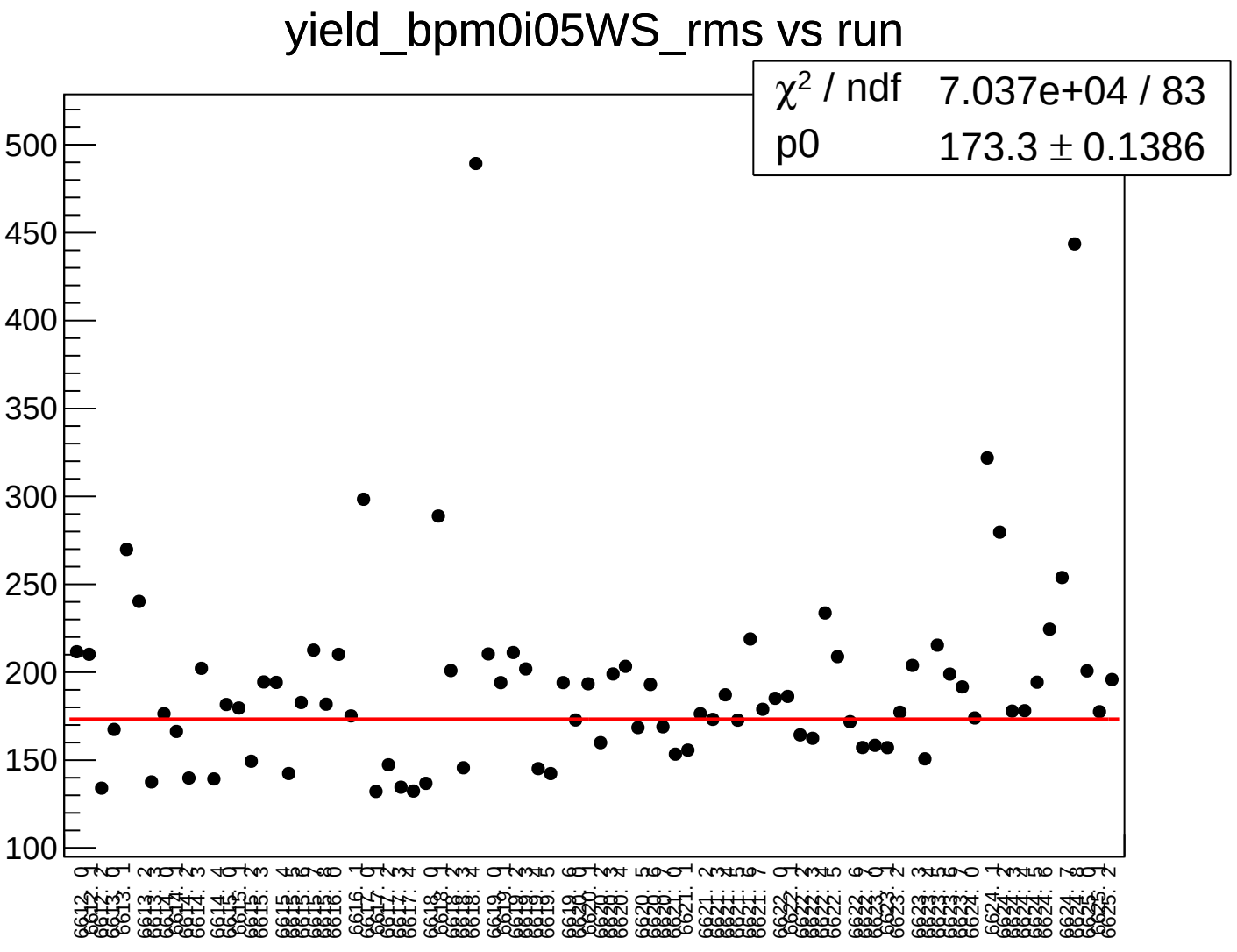

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 1.791e+06 / 83
p0 1.372e+05 ± 0.1961
137.8
137.6
137.4
137.2
137
136.8
pull
Entries 84
Mean 731.5
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

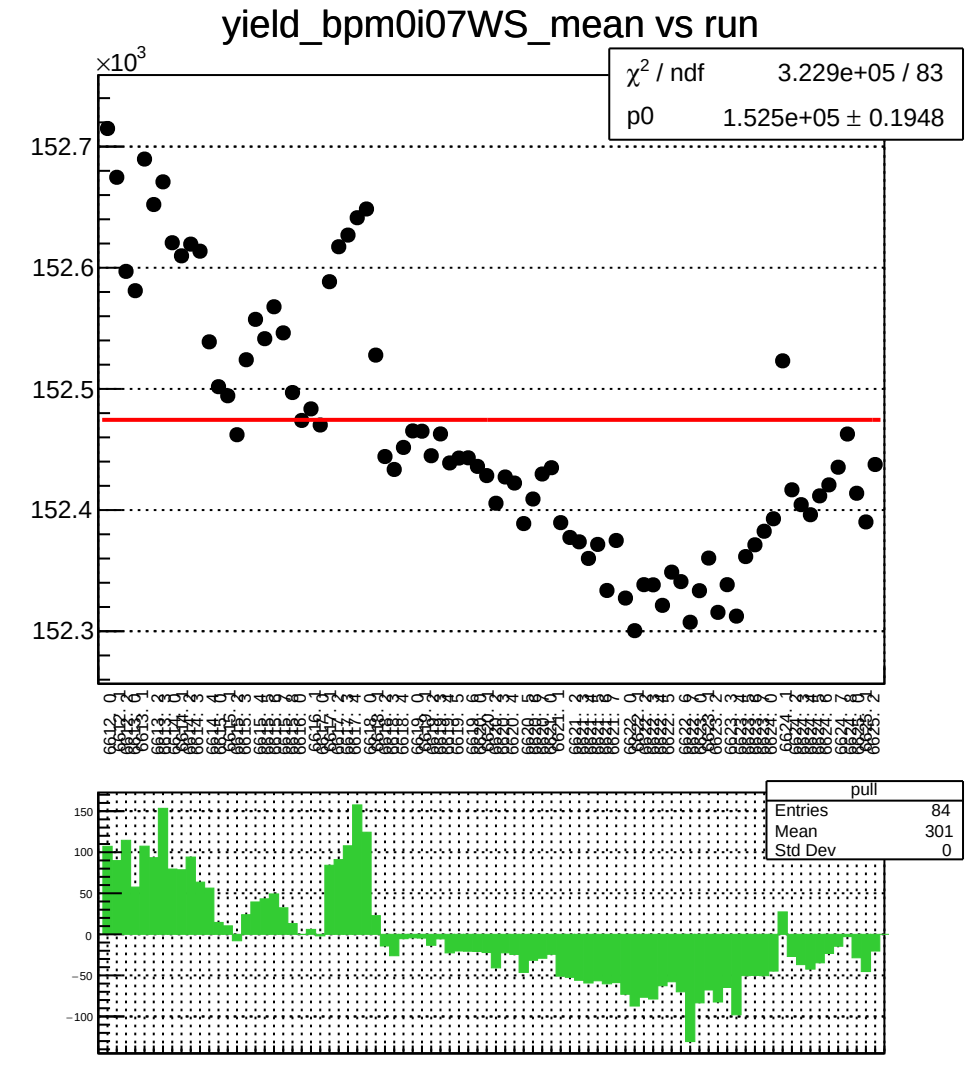

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

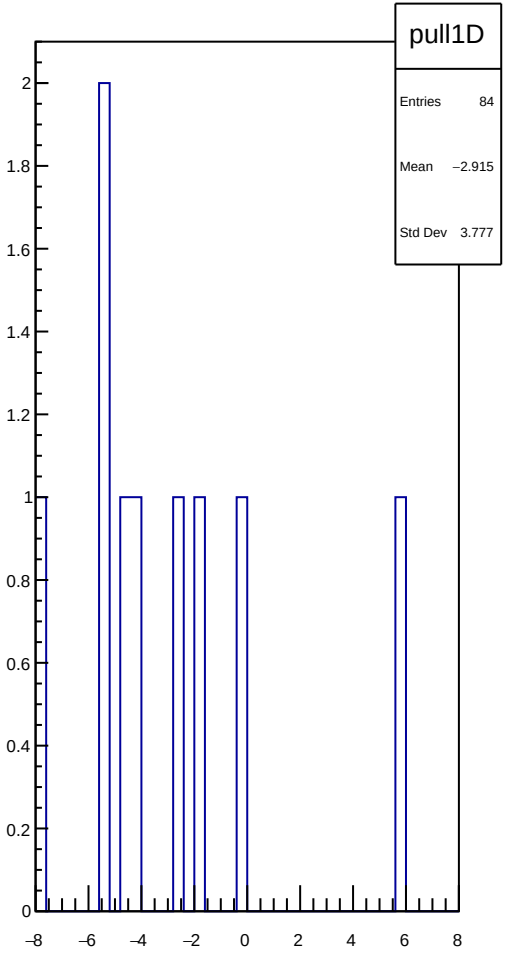

yield_bpm0i02aWS_rms vs run
χ² / ndf 5.74e+04 / 83
p0 174 ± 0.1386
450
400
350
300
250
200
150

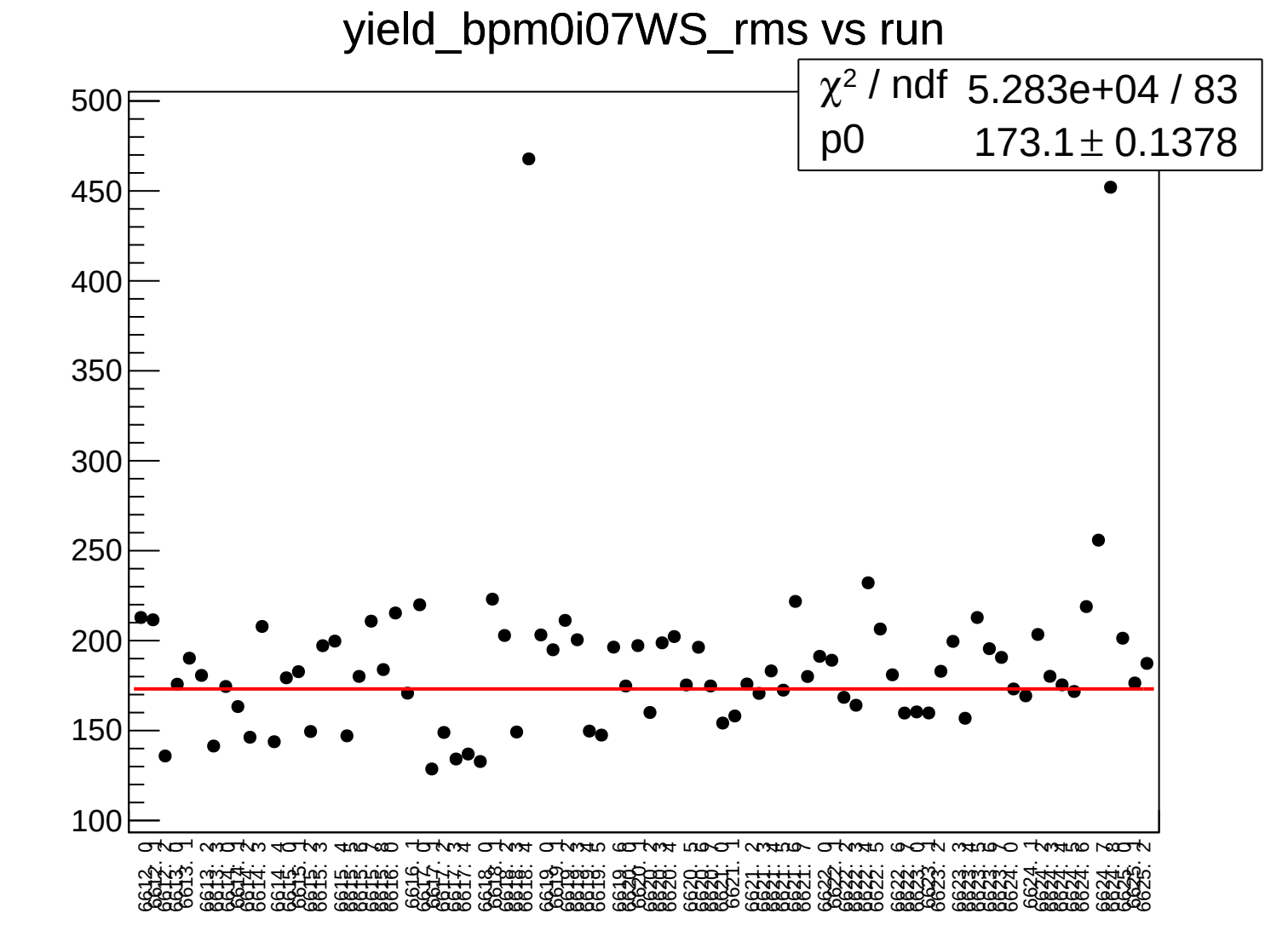

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 7.182e+05 / 83
p0 1.527e+05 ± 0.1961
153
152.9
152.8
152.7
152.6
152.5
152.4
152.3
152.2
pull
Entries 84
Mean 196.1
Std Dev 0
100
0
−100
−200
−300
−400

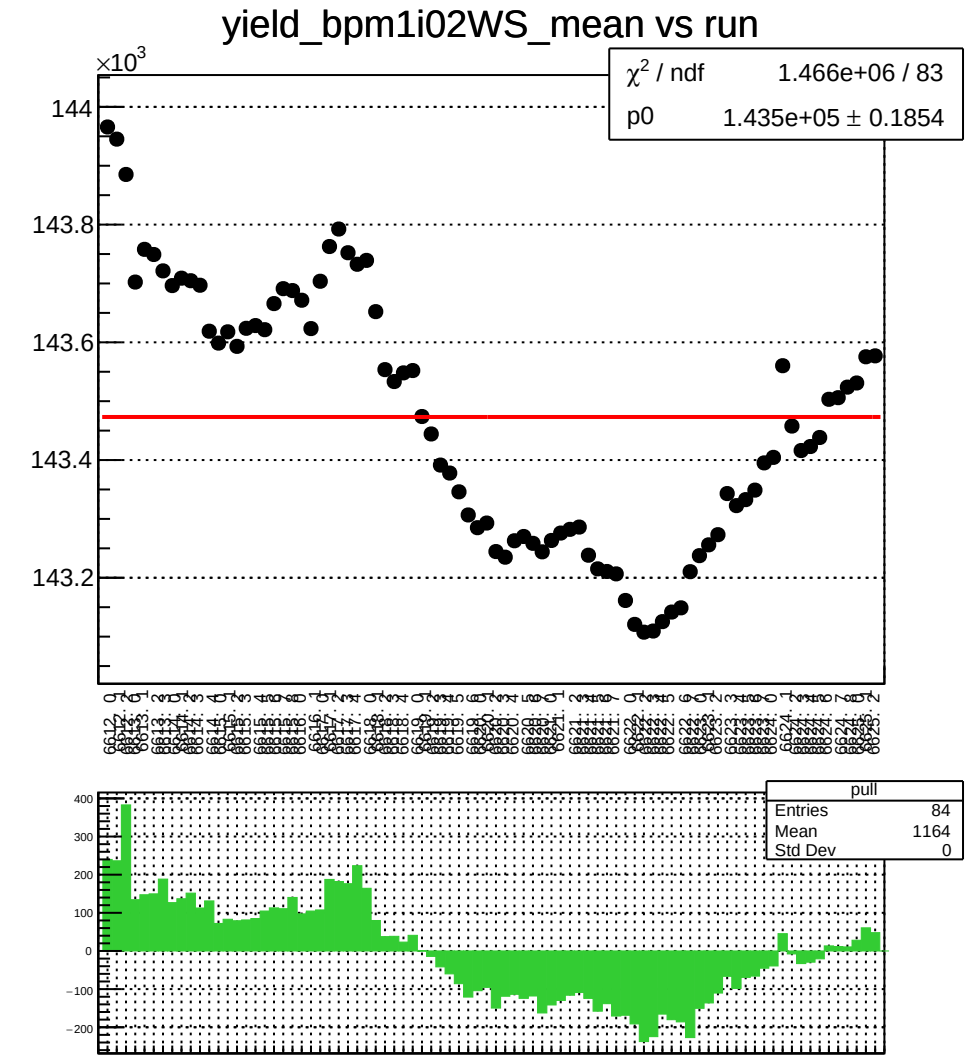

pull1D
Entries 84
Mean −0.9789
Std Dev 2.864
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

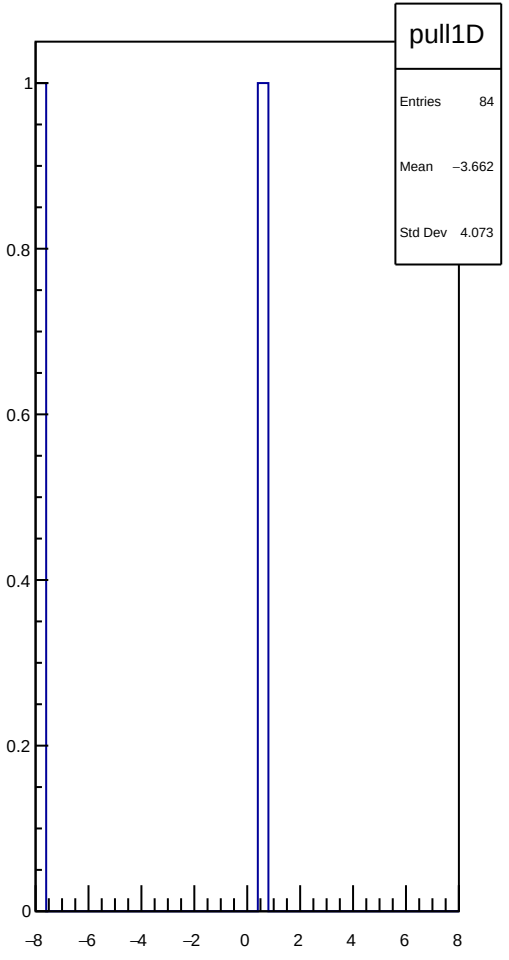

yield_bpm0i05WS_rms vs run
χ² / ndf 7.037e+04 / 83
p0 173.3 ± 0.1386
500
450
400
350
300
250
200
150
100

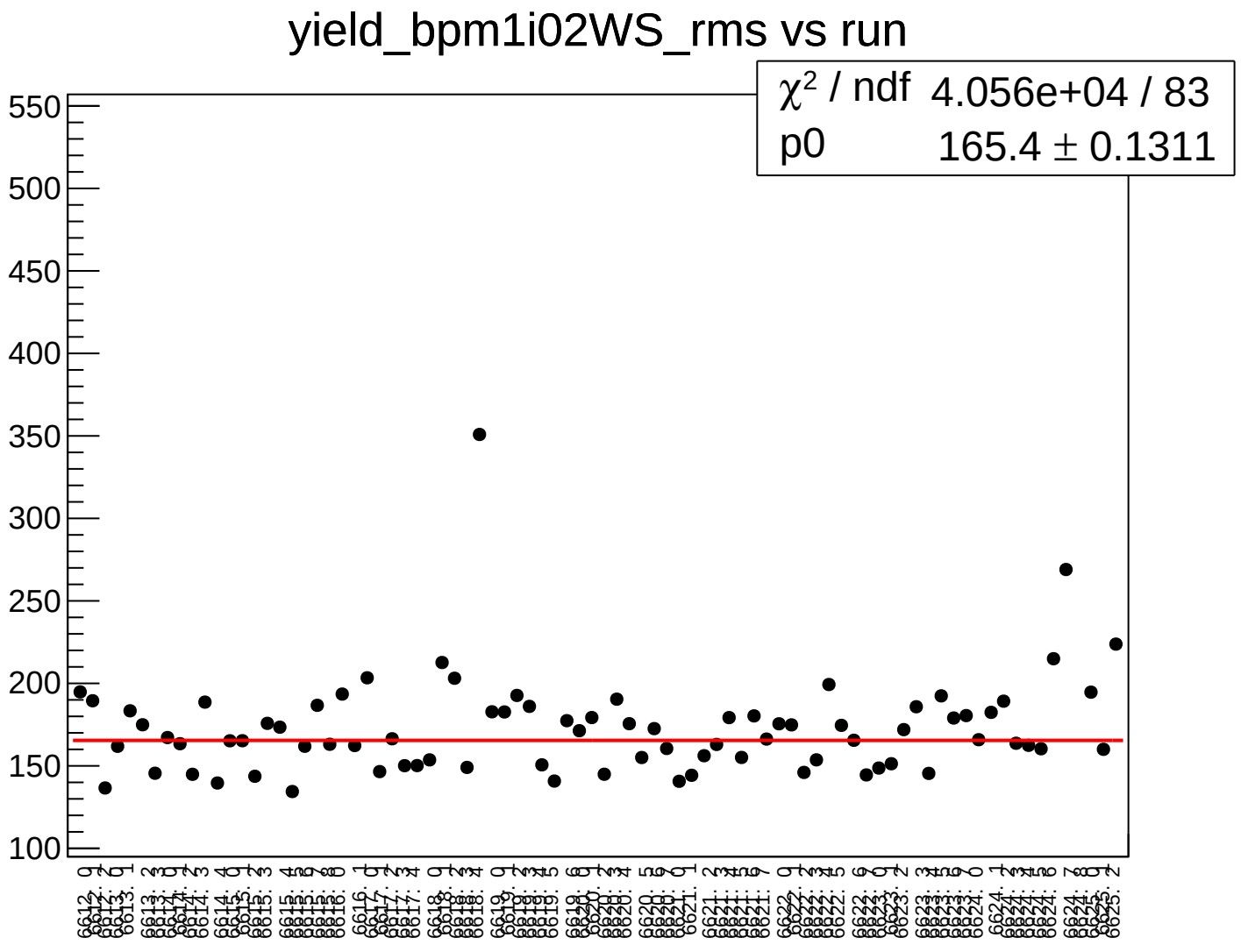

yield_bpm0i07WS_mean vs run
χ² / ndf 3.229e+05 / 83
p0 1.525e+05 ± 0.1948
×10³
152.7
152.6
152.5
152.4
152.3
pull
Entries 84
Mean 301
Std Dev 0
150
100
50
0
−50
−100

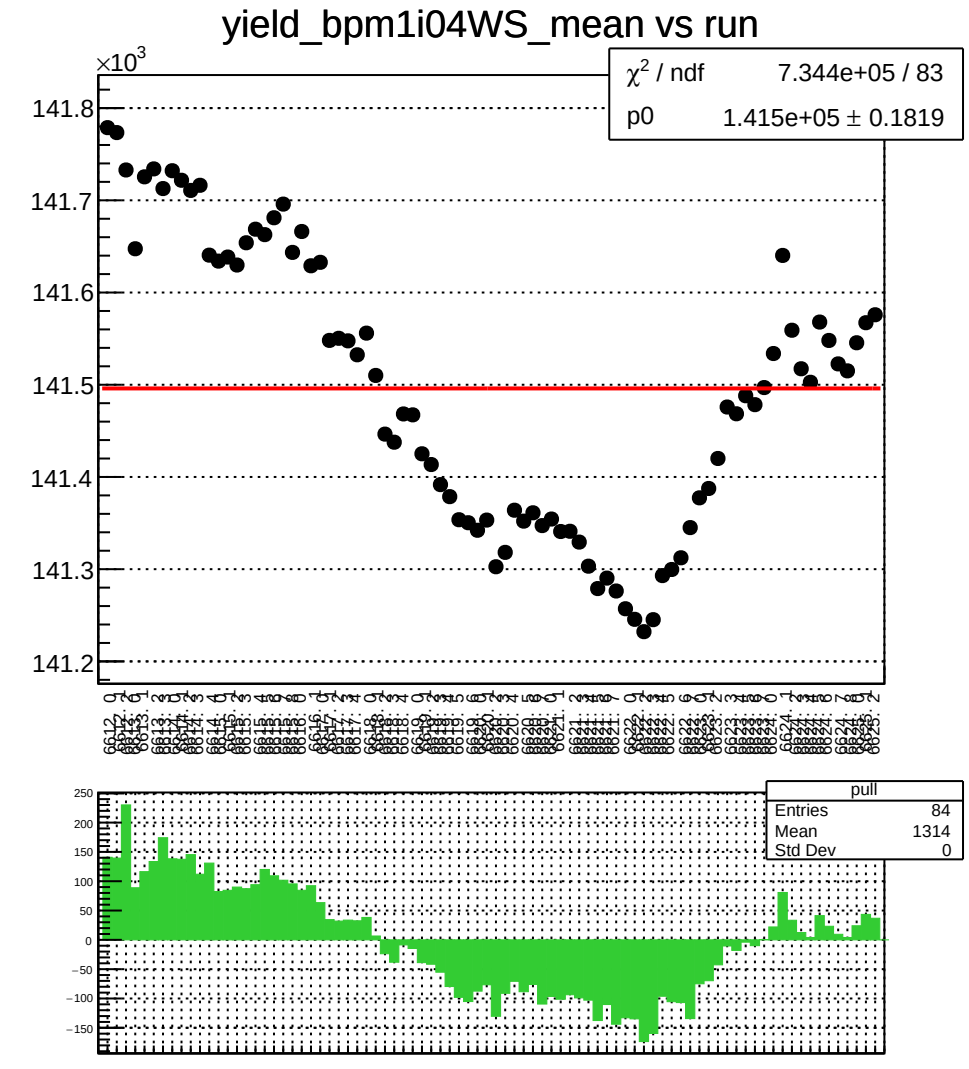

pull1D
Entries 84
Mean −2.915
Std Dev 3.777
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

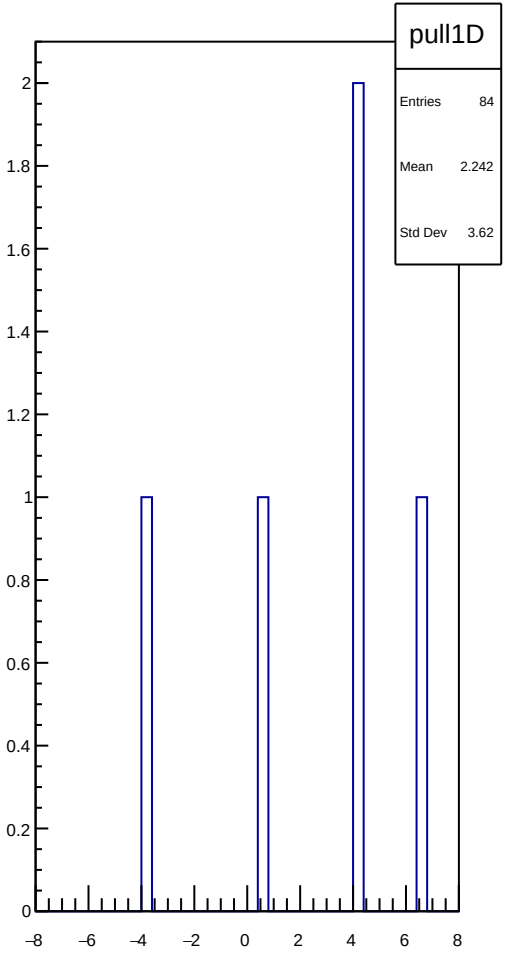

yield_bpm0i07WS_rms vs run
χ² / ndf 5.283e+04 / 83
p0 173.1 ± 0.1378
500
450
400
350
300
250
200
150
100

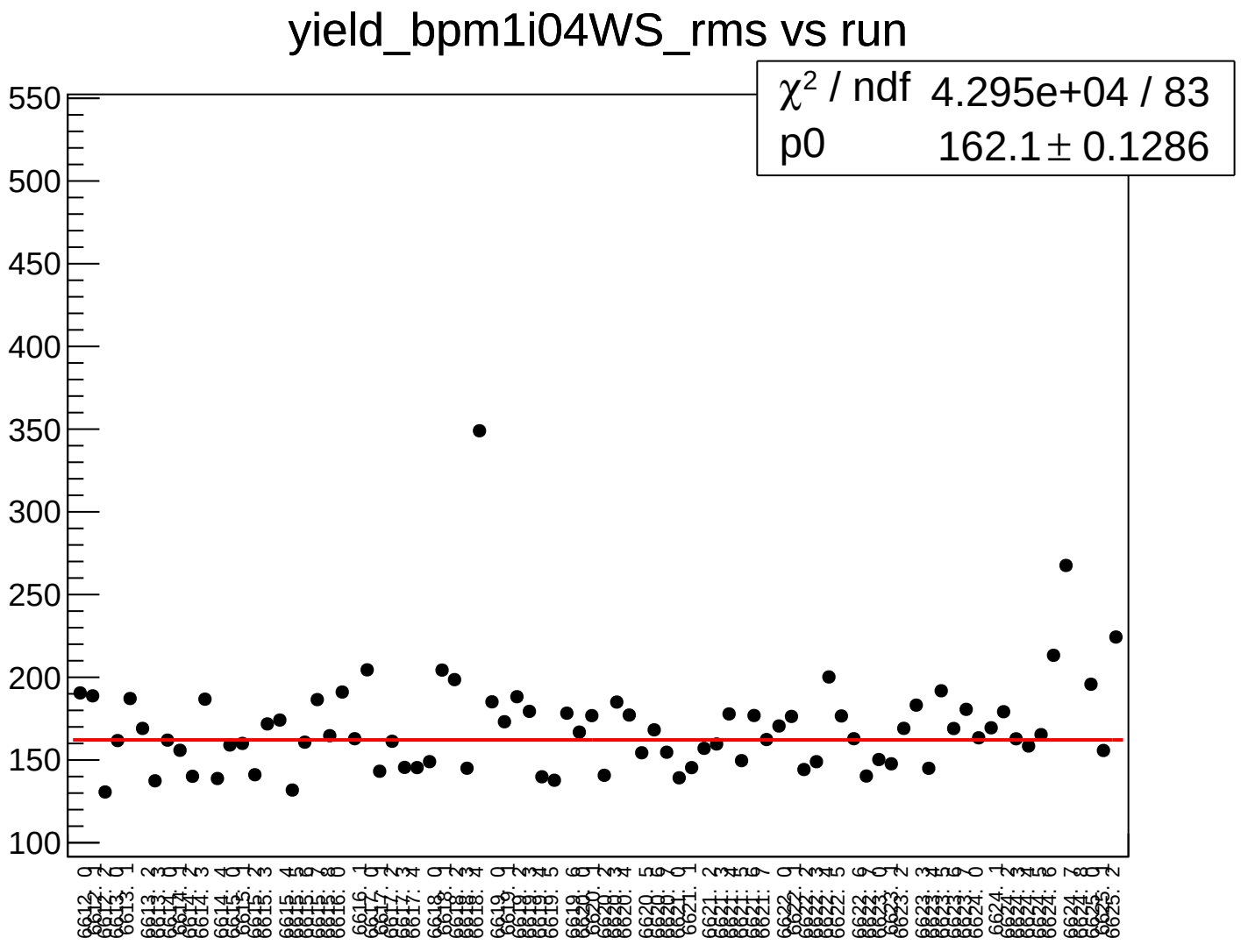

yield_bpm1i02WS_mean vs run
×10^3
144
143.8
143.6
143.4
143.2
χ² / ndf 1.466e+06 / 83
p0 1.435e+05 ± 0.1854
pull
Entries 84
Mean 1164
Std Dev 0
400
300
200
100
0
−100
−200

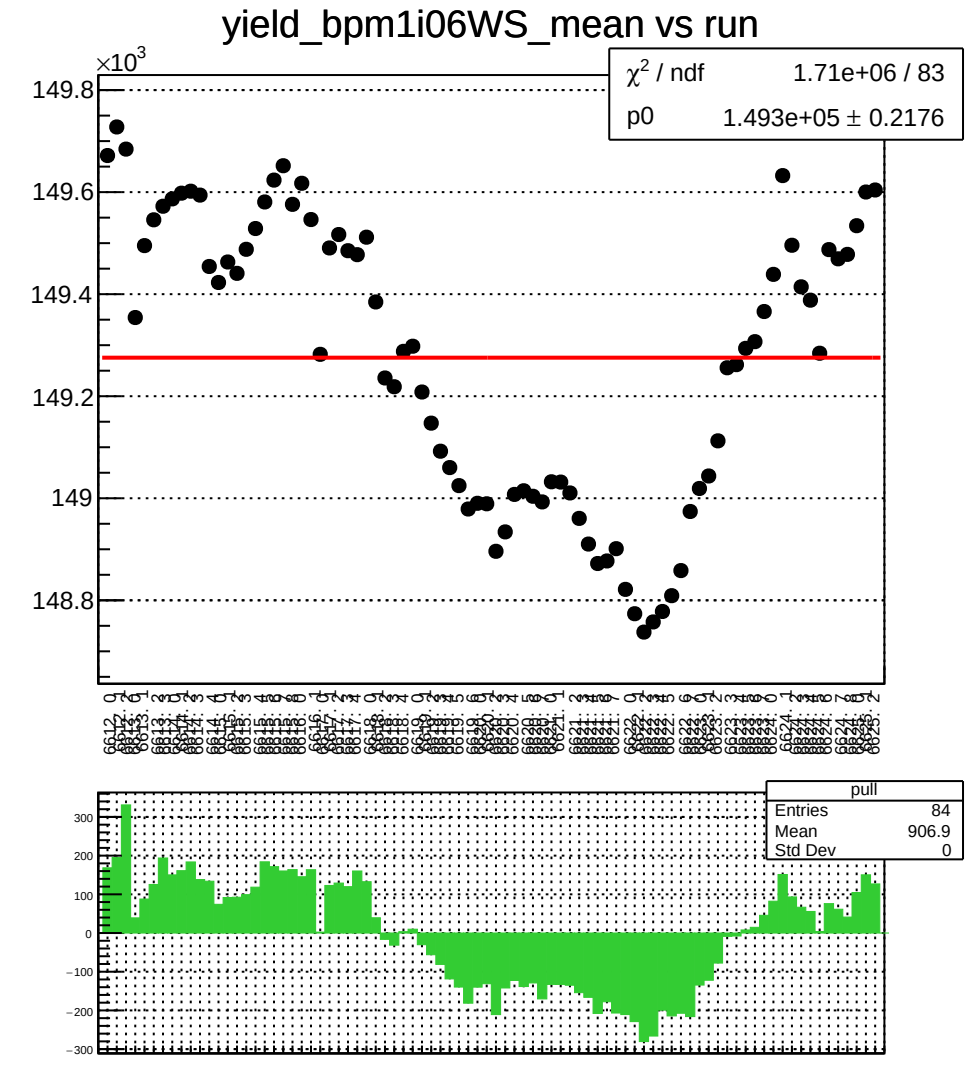

pull1D
Entries 84
Mean −3.662
Std Dev 4.073
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

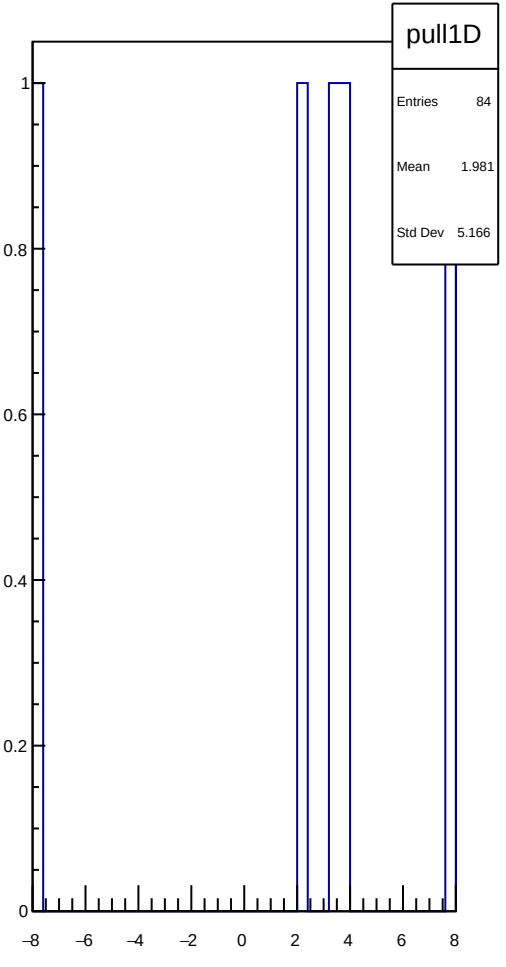

yield_bpm1i02WS_rms vs run
χ² / ndf 4.056e+04 / 83
p0 165.4 ± 0.1311
550
500
450
400
350
300
250
200
150
100

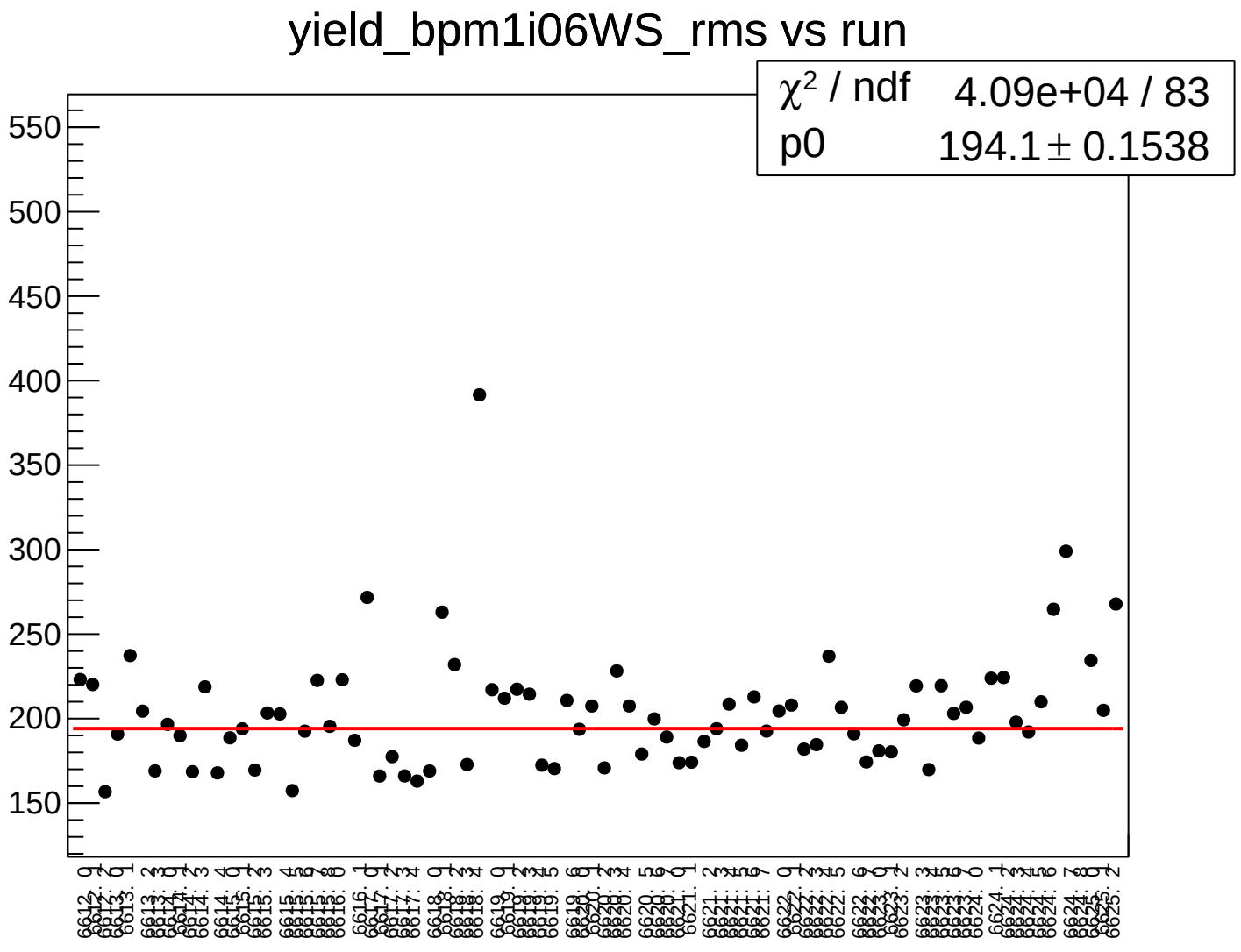

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 7.344e+05 / 83
p0 1.415e+05 ± 0.1819
141.8
141.7
141.6
141.5
141.4
141.3
141.2
pull
Entries 84
Mean 1314
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

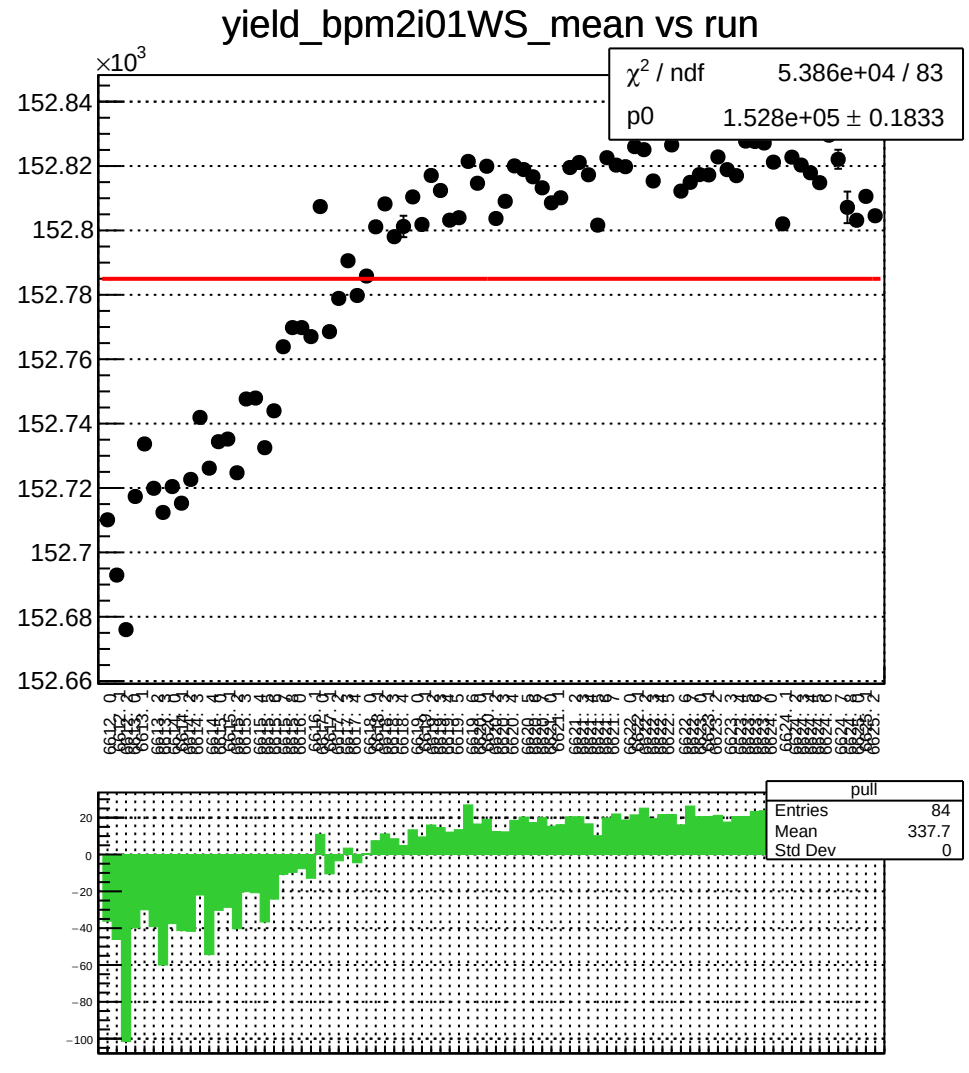

pull1D
Entries 84
Mean 2.242
Std Dev 3.62
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

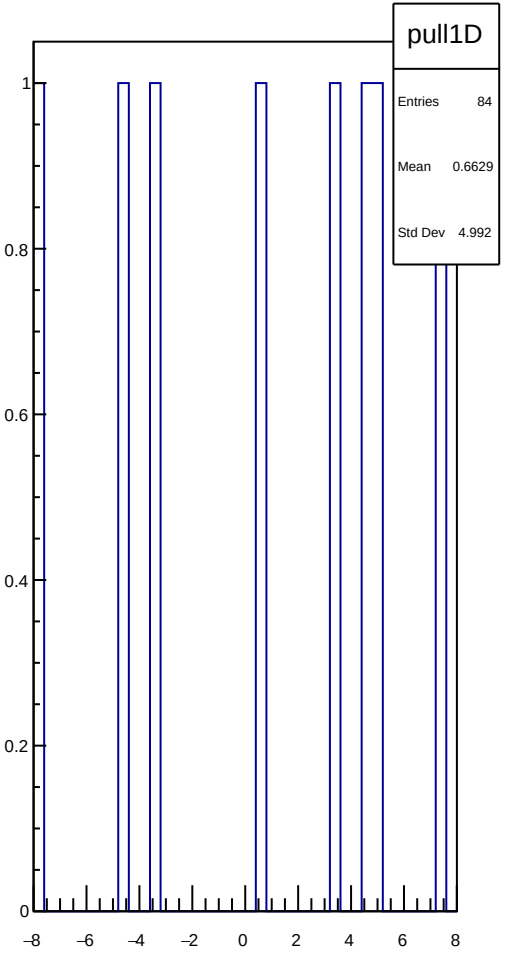

yield_bpm1i04WS_rms vs run
χ² / ndf 4.295e+04 / 83
p0 162.1 ± 0.1286
550
500
450
400
350
300
250
200
150
100

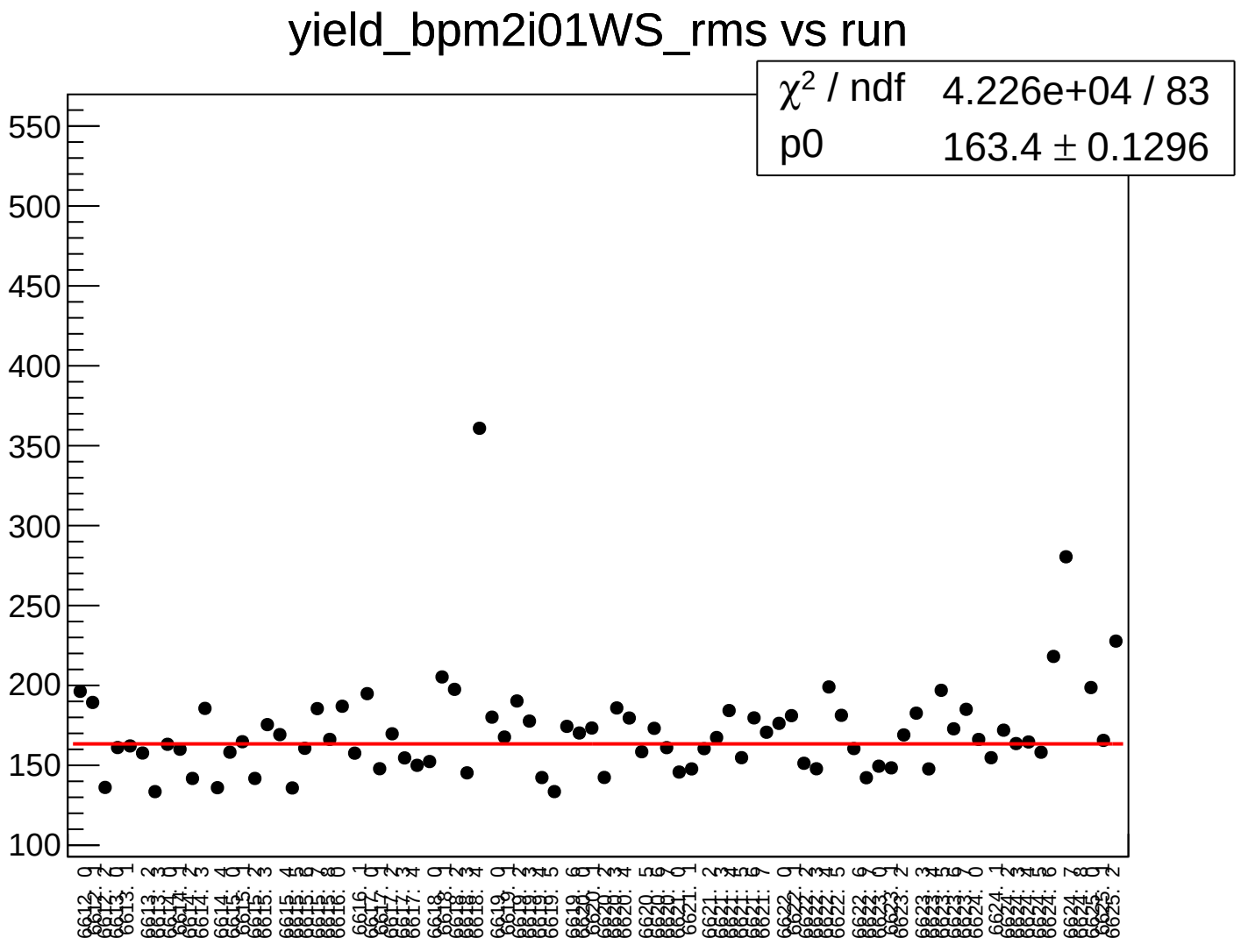

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 1.71e+06 / 83
p0 1.493e+05 ± 0.2176
149.8
149.6
149.4
149.2
149
148.8
pull
Entries 84
Mean 906.9
Std Dev 0
300
200
100
0
−100
−200
−300

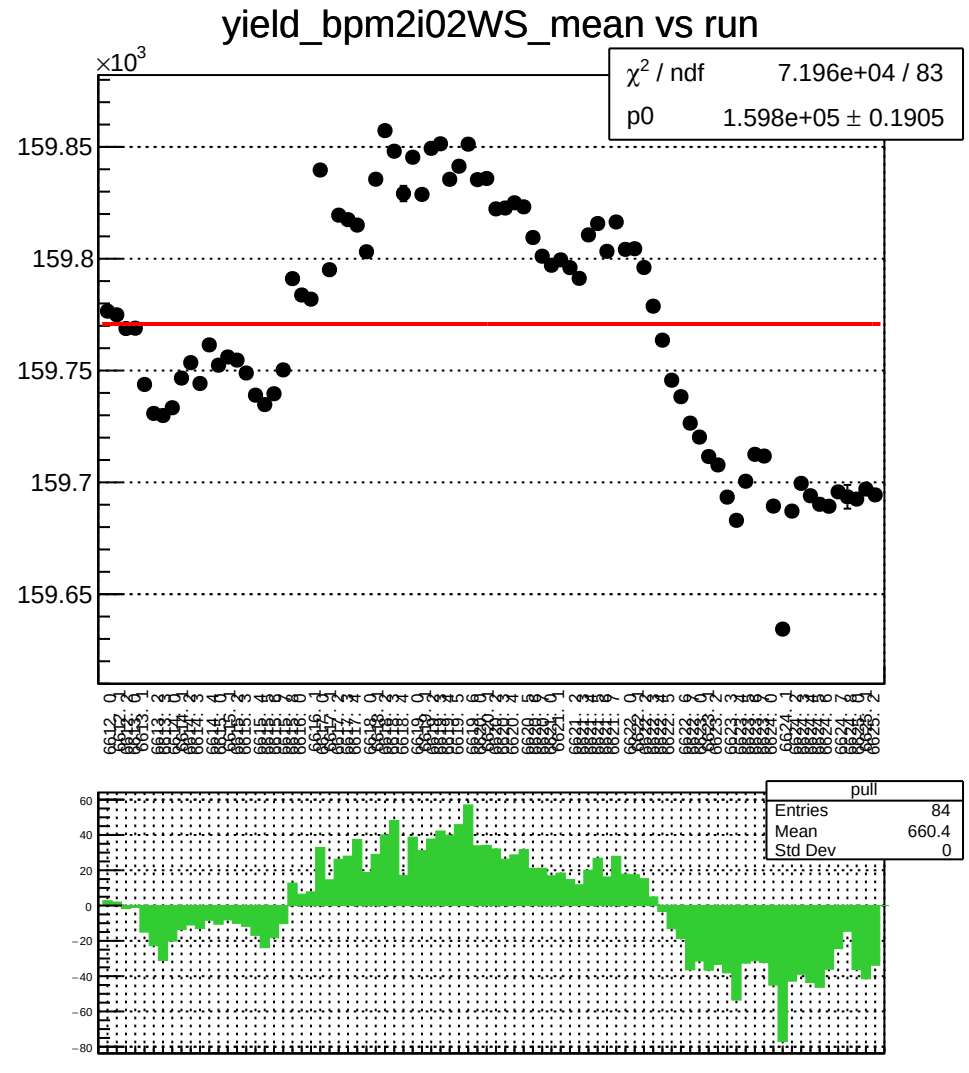

pull1D
Entries 84
Mean 1.981
Std Dev 5.166
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

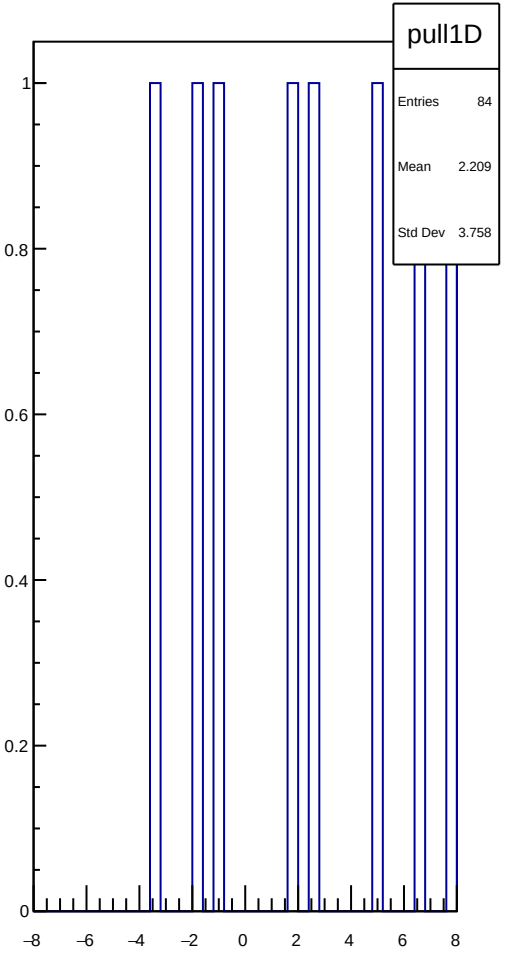

yield_bpm1i06WS_rms vs run
χ² / ndf 4.09e+04 / 83
p0 194.1 ± 0.1538
550
500
450
400
350
300
250
200
150

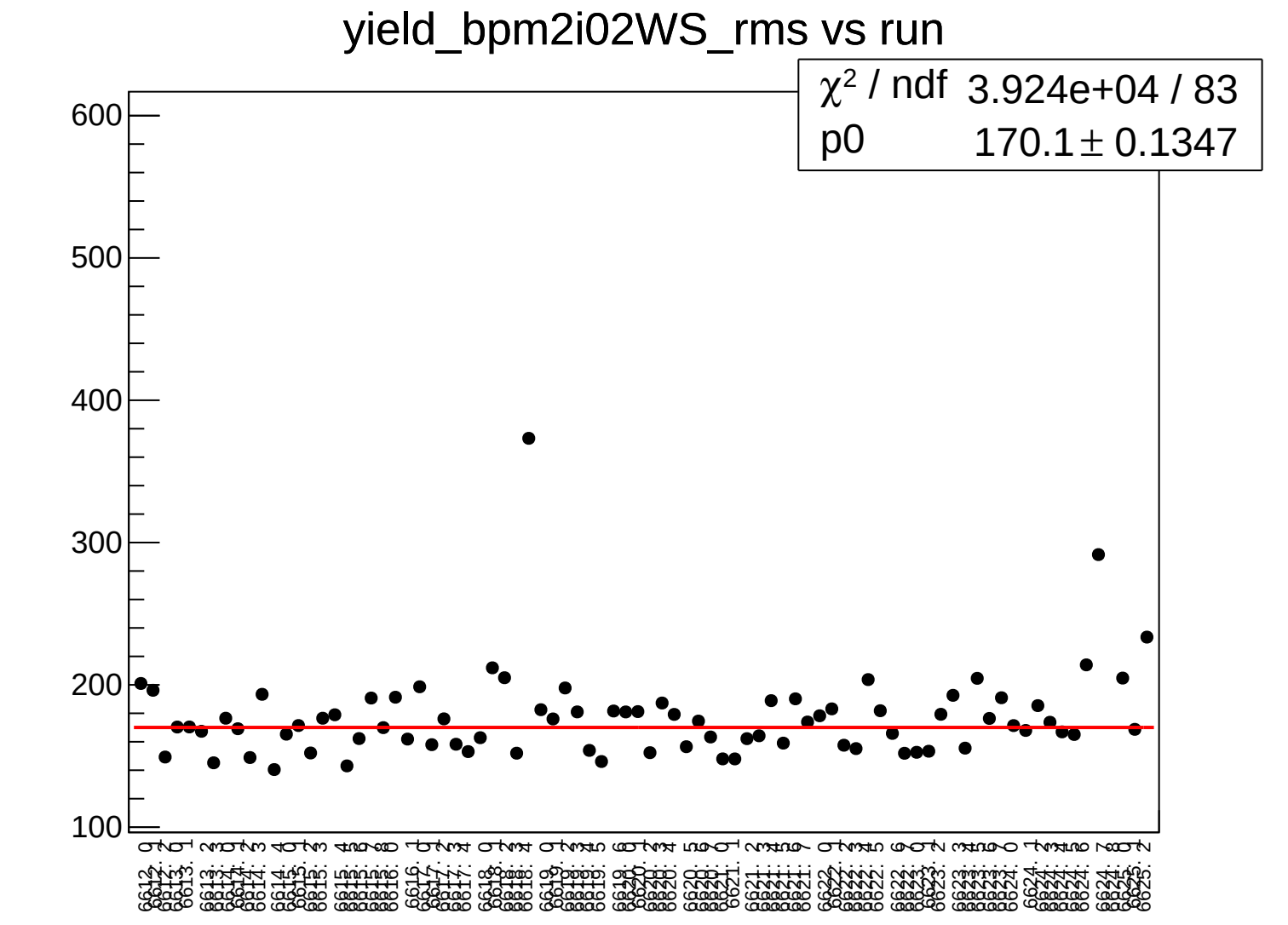

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5.386e+04 / 83
p0 1.528e+05 ± 0.1833
152.84
152.82
152.8
152.78
152.76
152.74
152.72
152.7
152.68
152.66
pull
Entries 84
Mean 337.7
Std Dev 0
20
0
−20
−40
−60
−80
−100

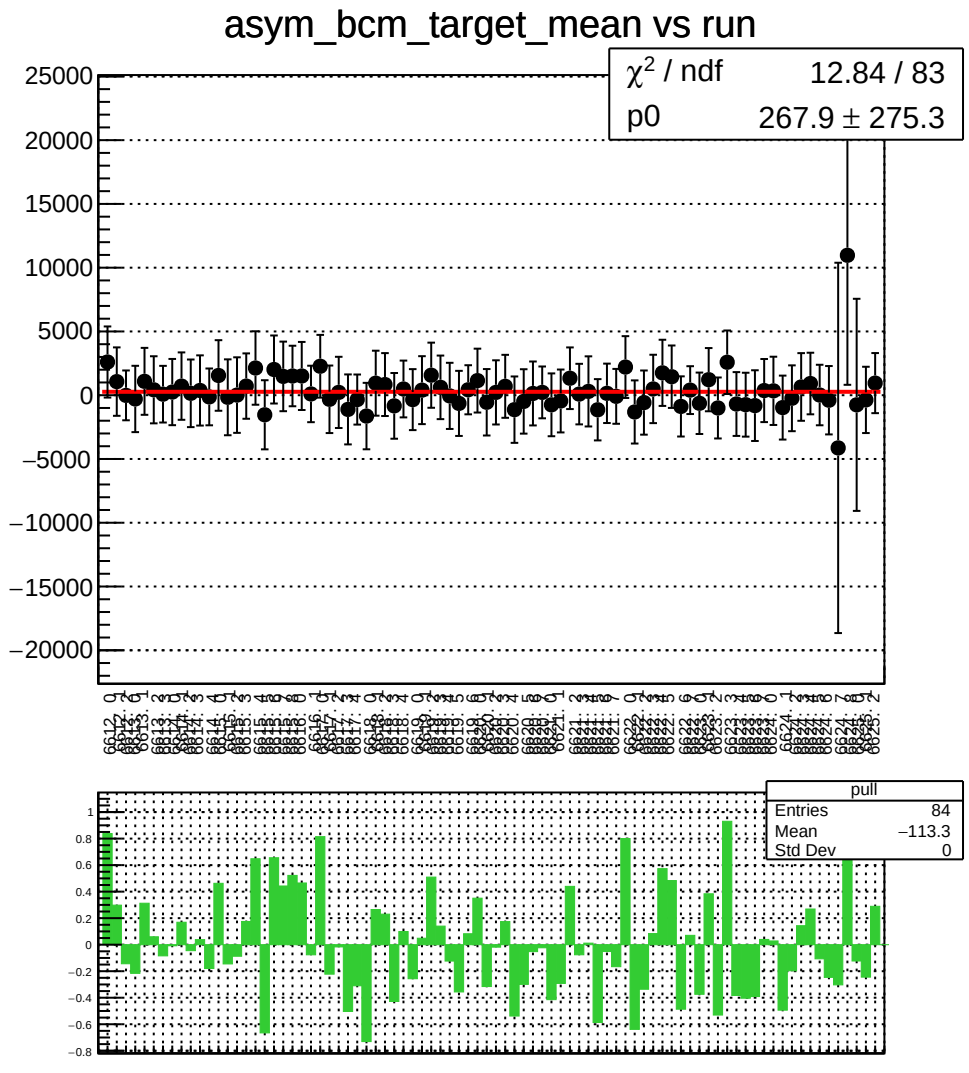

pull1D
Entries 84
Mean 0.6629
Std Dev 4.992
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

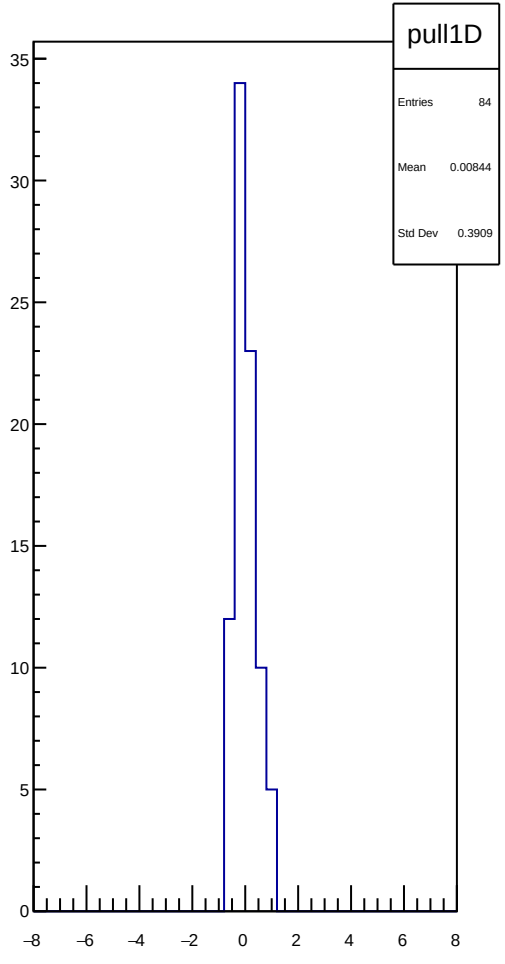

yield_bpm2i01WS_rms vs run
χ² / ndf 4.226e+04 / 83
p0 163.4 ± 0.1296
550
500
450
400
350
300
250
200
150
100

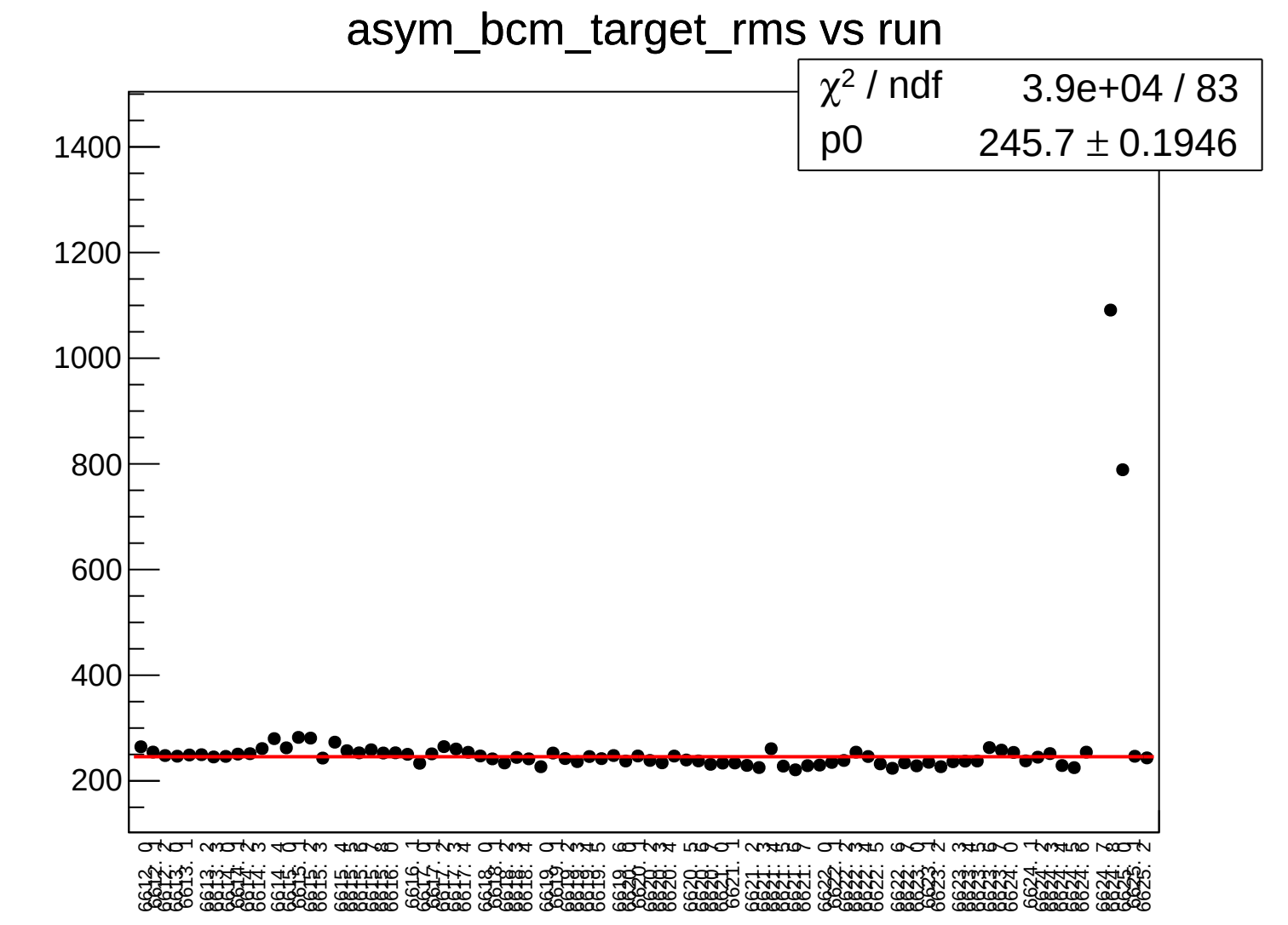

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 7.196e+04 / 83
p0 1.598e+05 ± 0.1905
159.85
159.8
159.75
159.7
159.65
pull
Entries 84
Mean 660.4
Std Dev 0
60
40
20
0
−20
−40
−60
−80

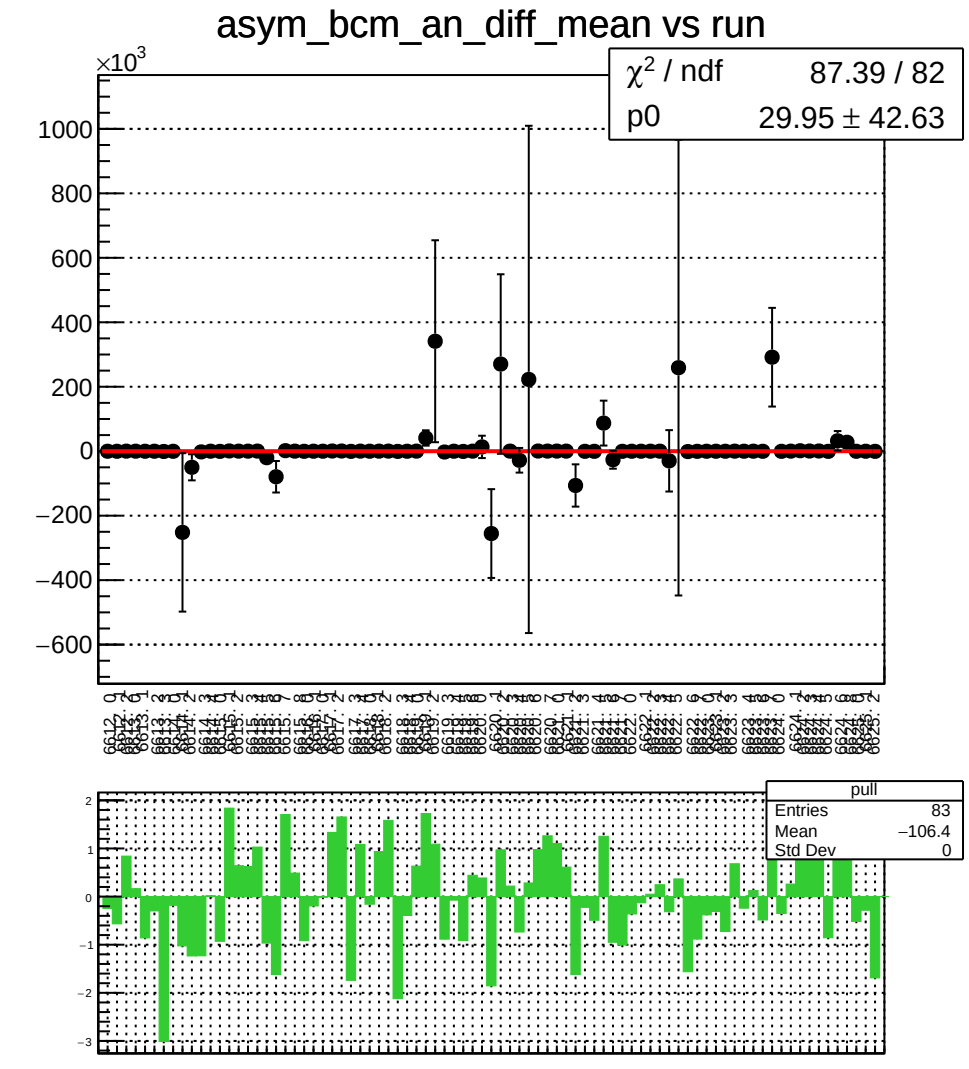

pull1D
Entries 84
Mean 2.209
Std Dev 3.758
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

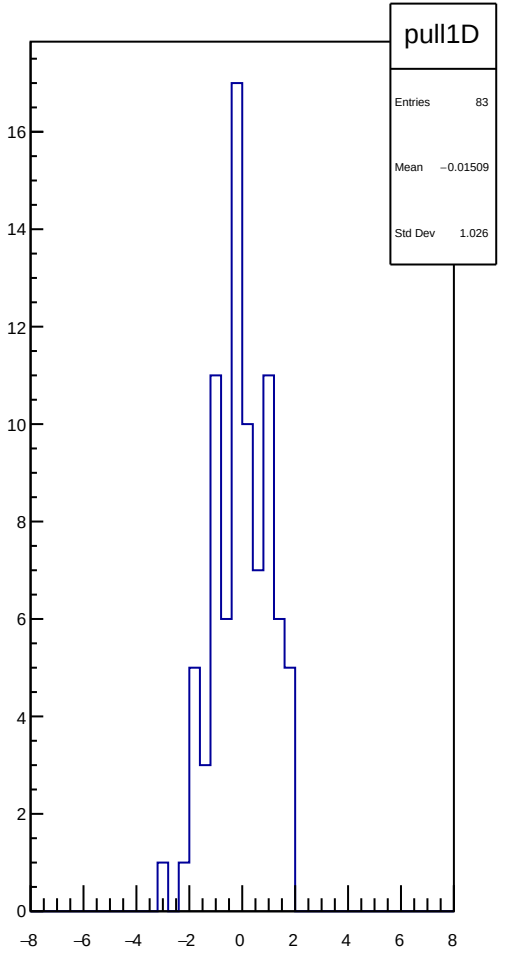

yield_bpm2i02WS_rms vs run
χ² / ndf 3.924e+04 / 83
p0 170.1 ± 0.1347
600
500
400
300
200
100

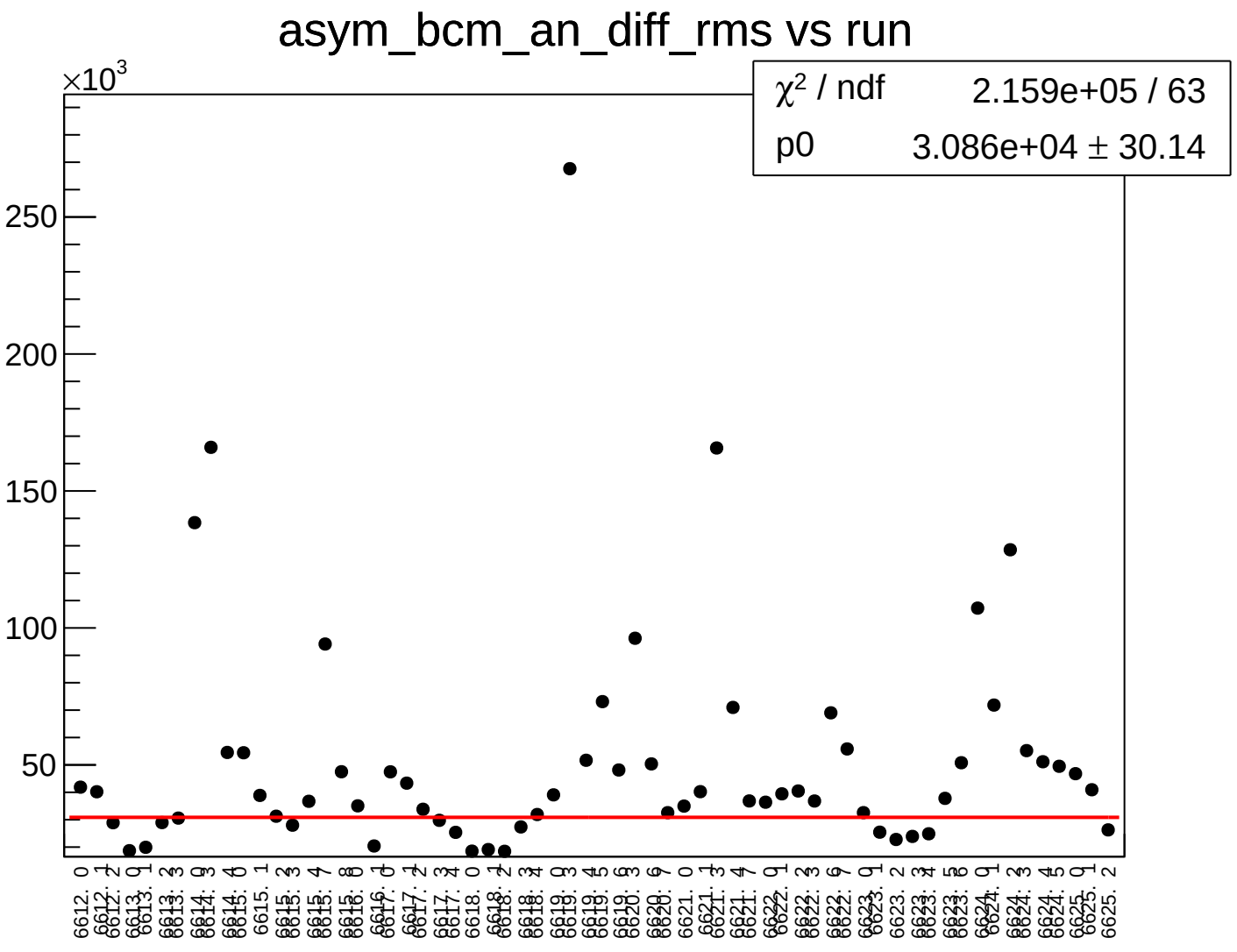

asym_bcm_target_mean vs run
χ² / ndf 12.84 / 83
p0 267.9 ± 275.3
pull
Entries 84
Mean −113.3
Std Dev 0

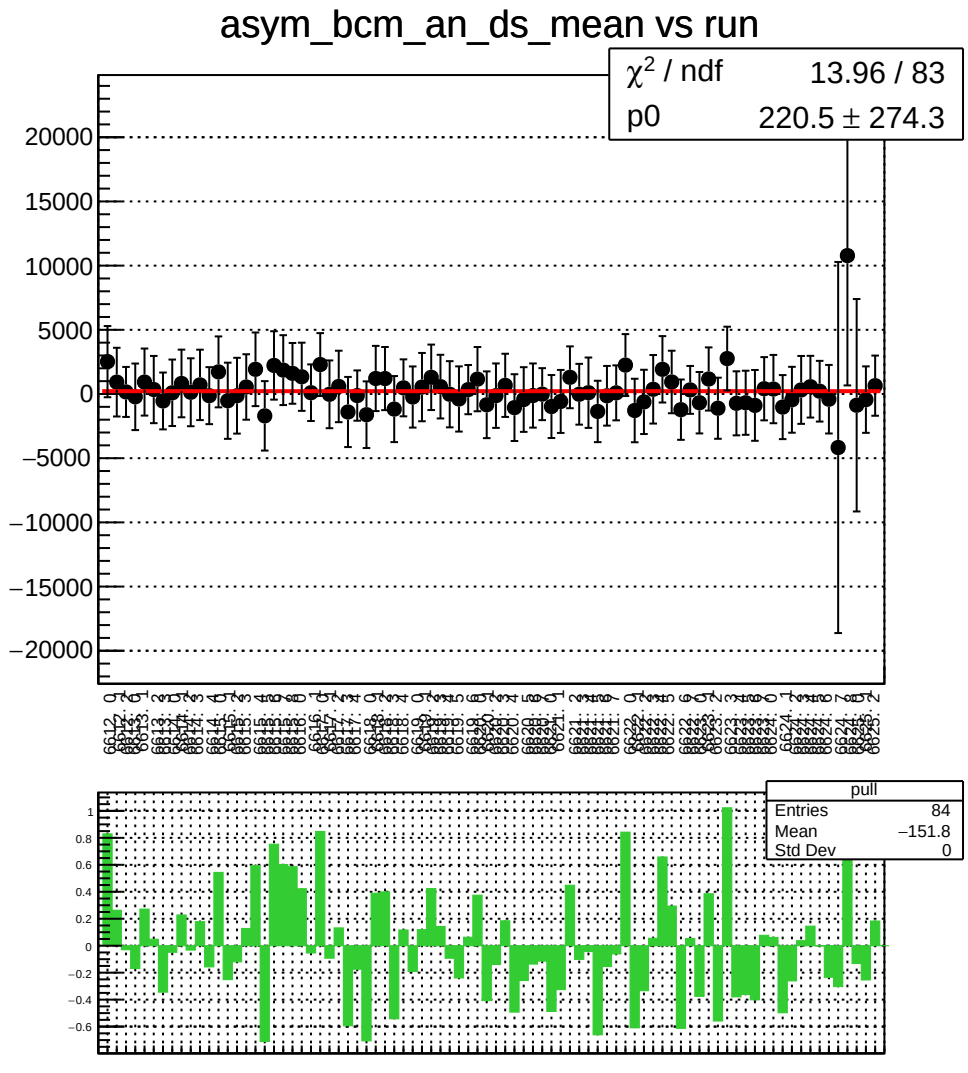

pull1D
Entries 84
Mean 0.00844
Std Dev 0.3909

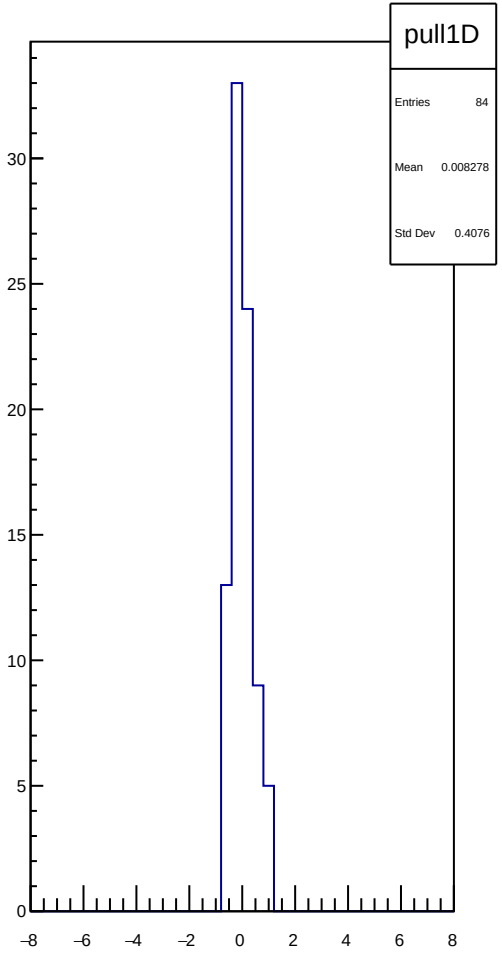

asym_bcm_target_rms vs run
χ² / ndf 3.9e+04 / 83
p0 245.7 ± 0.1946
1400
1200
1000
800
600
400
200

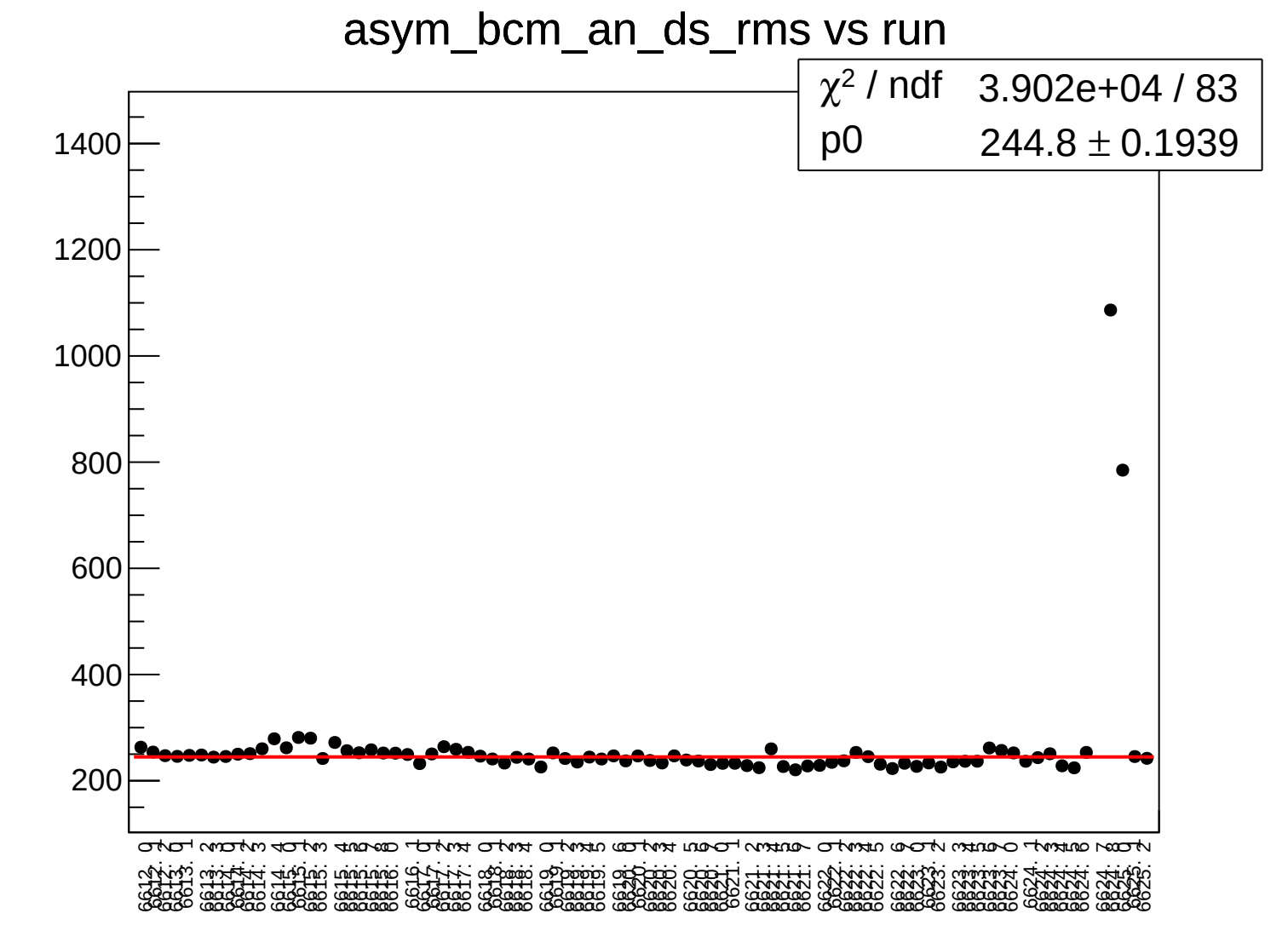

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 87.39 / 82
p0 29.95 ± 42.63
1000
800
600
400
200
0
−200
−400
−600
pull
Entries 83
Mean −106.4
Std Dev 0
2
1
0
−1
−2
−3

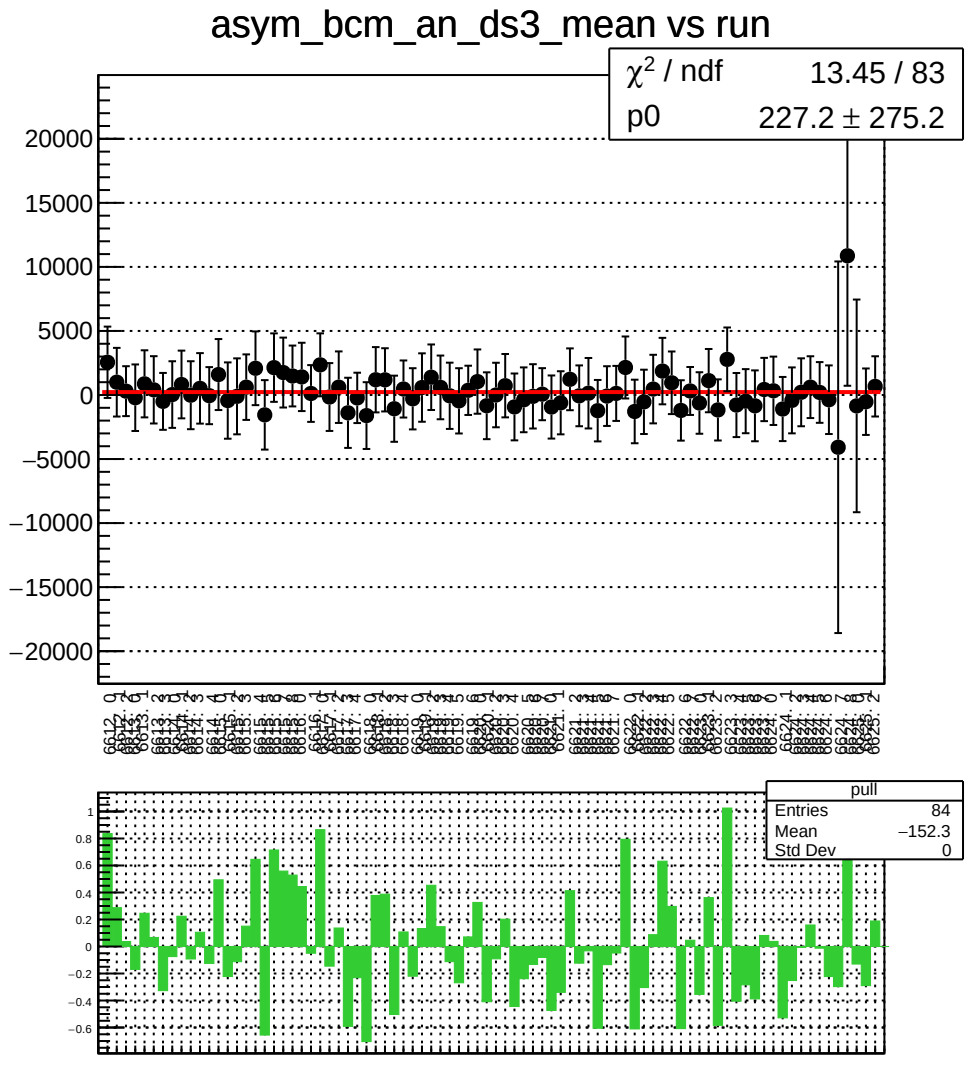

pull1D
Entries 83
Mean −0.01509
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

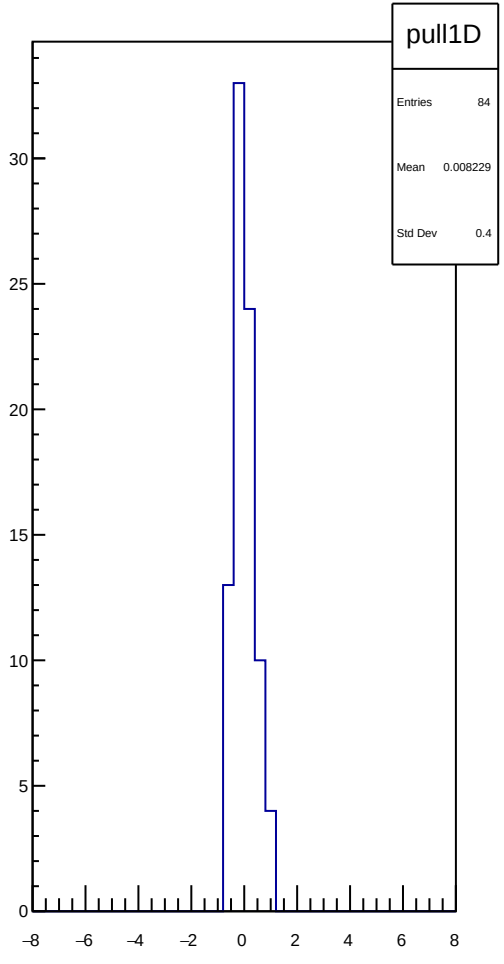

asym_bcm_an_diff_rms vs run
×10^3
χ^2 / ndf 2.159e+05 / 63
p0 3.086e+04 ± 30.14
250
200
150
100
50

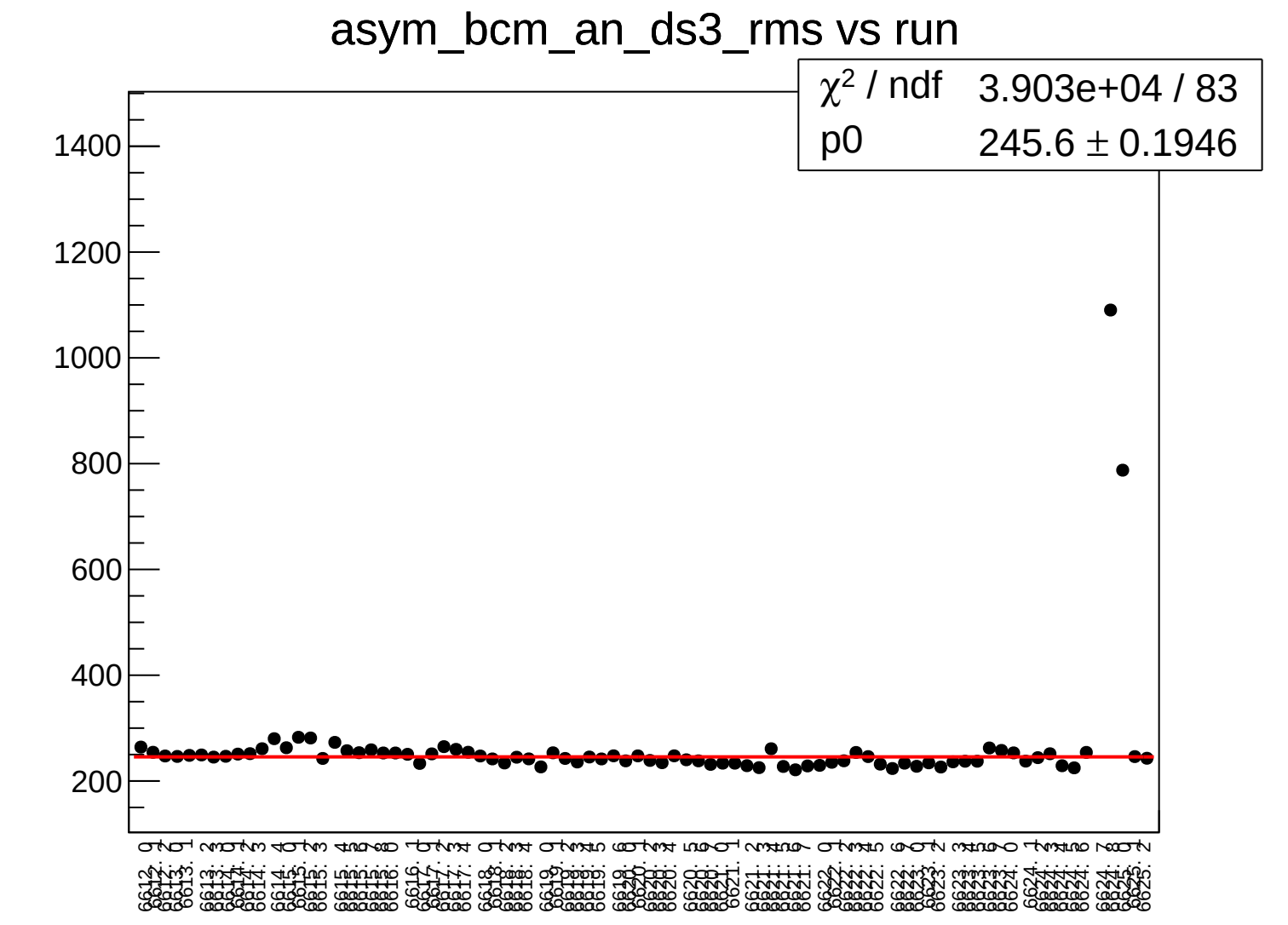

asym_bcm_an_ds_mean vs run
χ² / ndf 13.96 / 83
p0 220.5 ± 274.3
pull
Entries 84
Mean −151.8
Std Dev 0

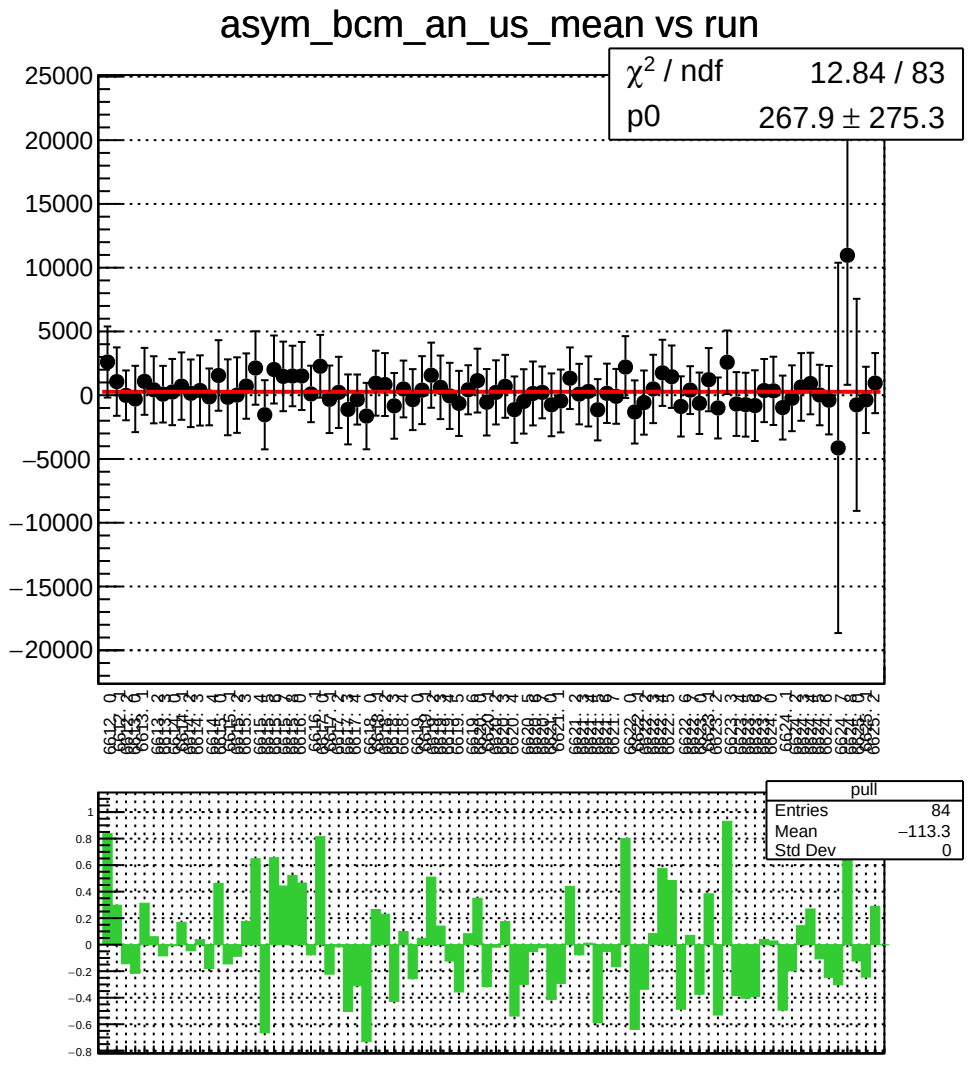

pull1D
Entries 84
Mean 0.008278
Std Dev 0.4076

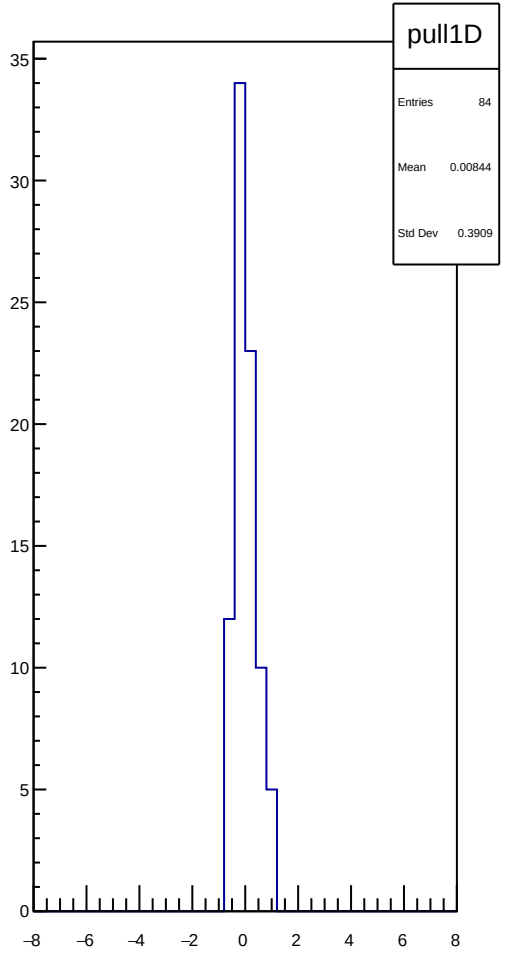

asym_bcm_an_ds_rms vs run
χ^2 / ndf 3.902e+04 / 83
p0 244.8 ± 0.1939
1400
1200
1000
800
600
400
200

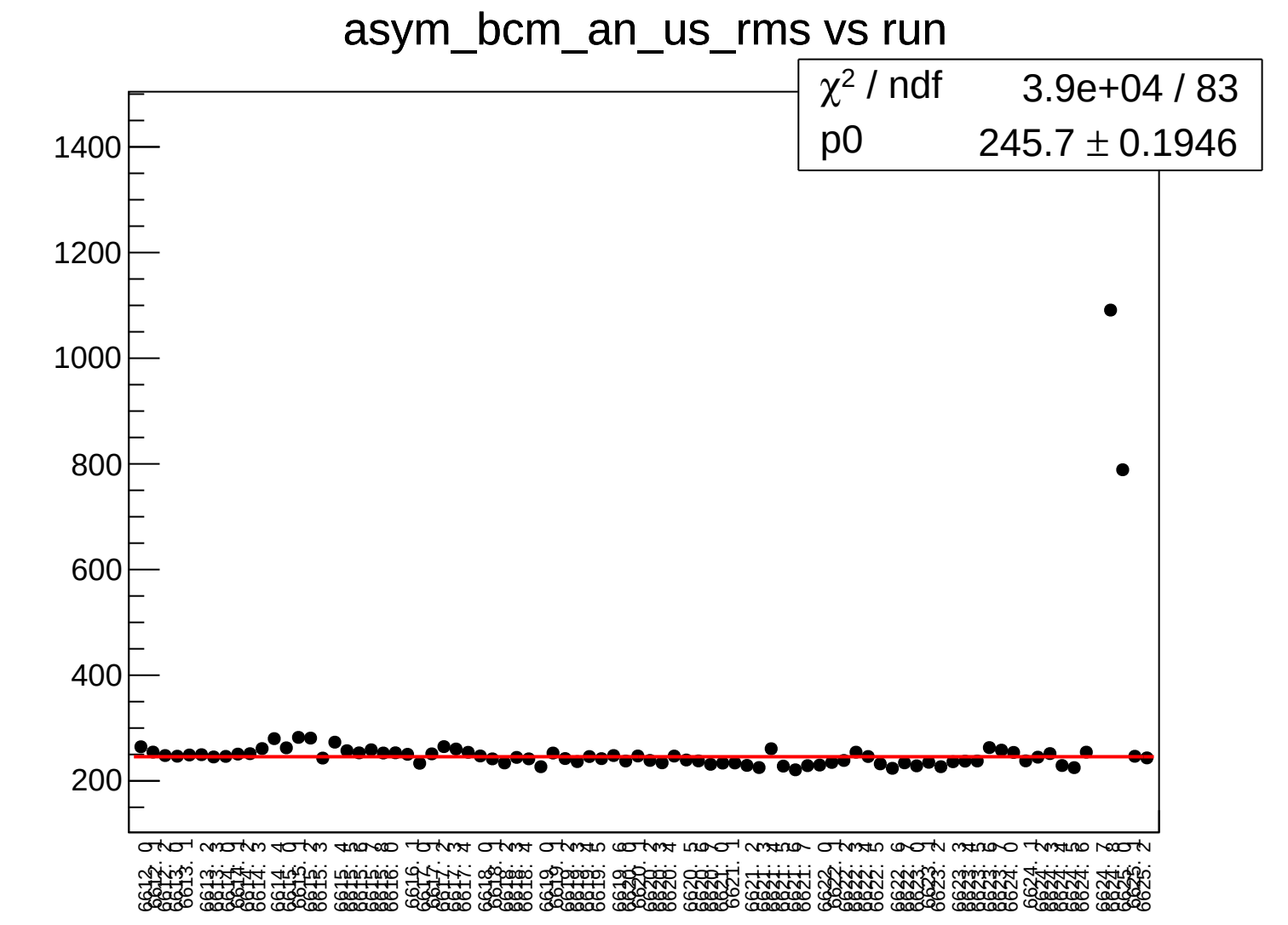

asym_bcm_an_ds3_mean vs run
χ² / ndf 13.45 / 83
p0 227.2 ± 275.2
pull
Entries 84
Mean −152.3
Std Dev 0

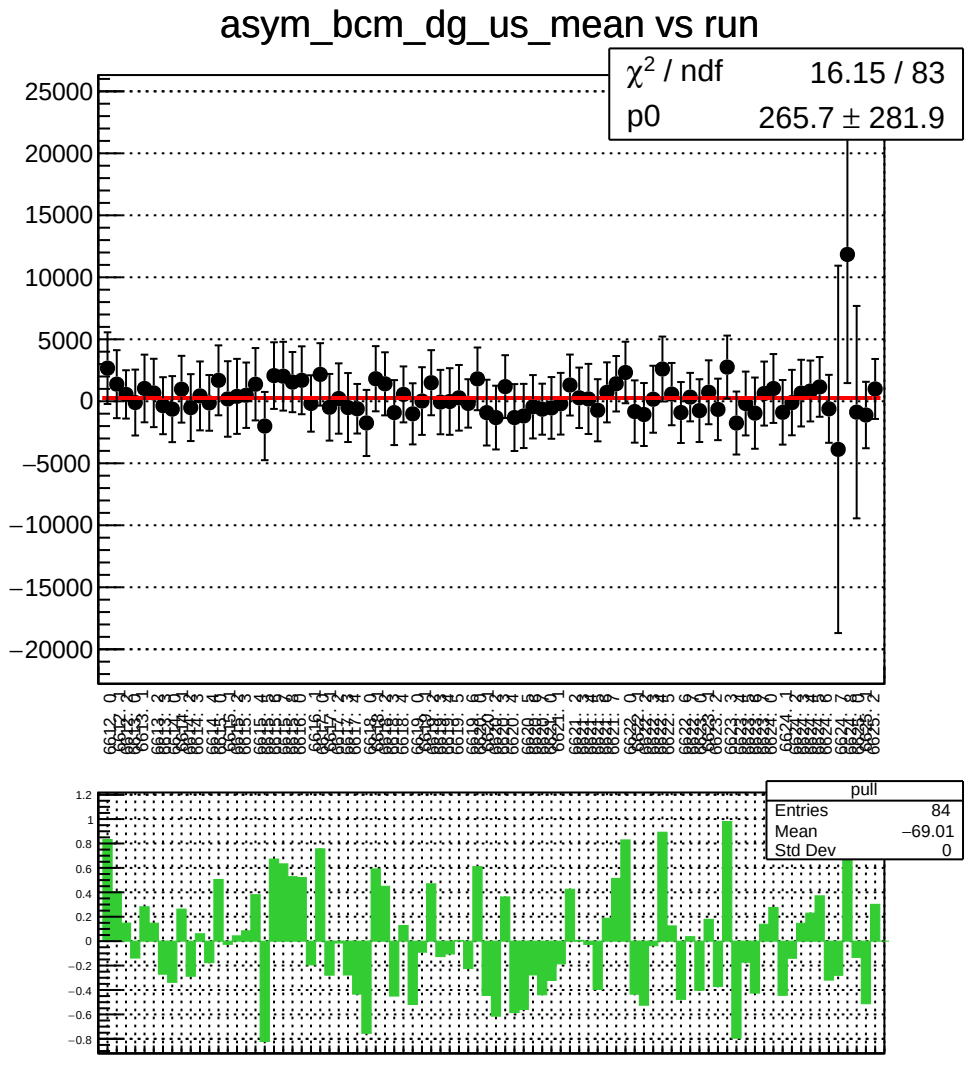

pull1D
Entries 84
Mean 0.008229
Std Dev 0.4

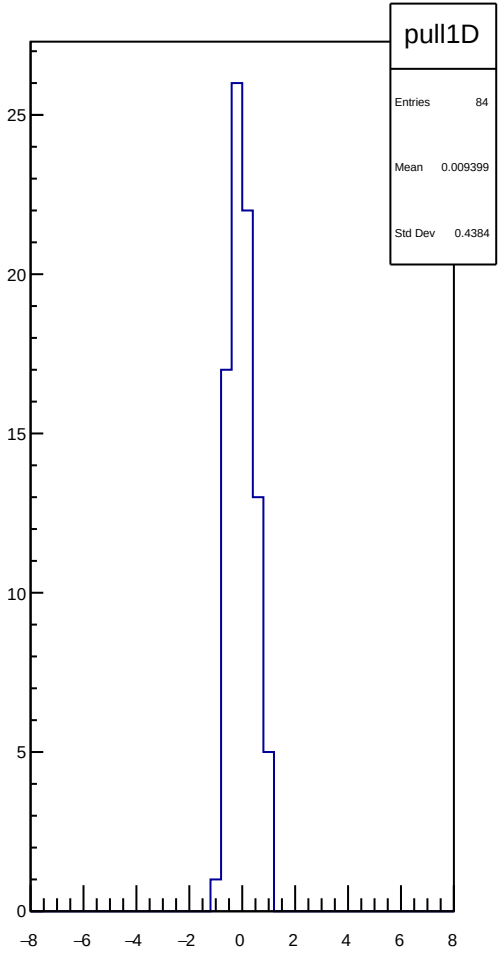

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 3.903e+04 / 83
p0 245.6 ± 0.1946
1400
1200
1000
800
600
400
200

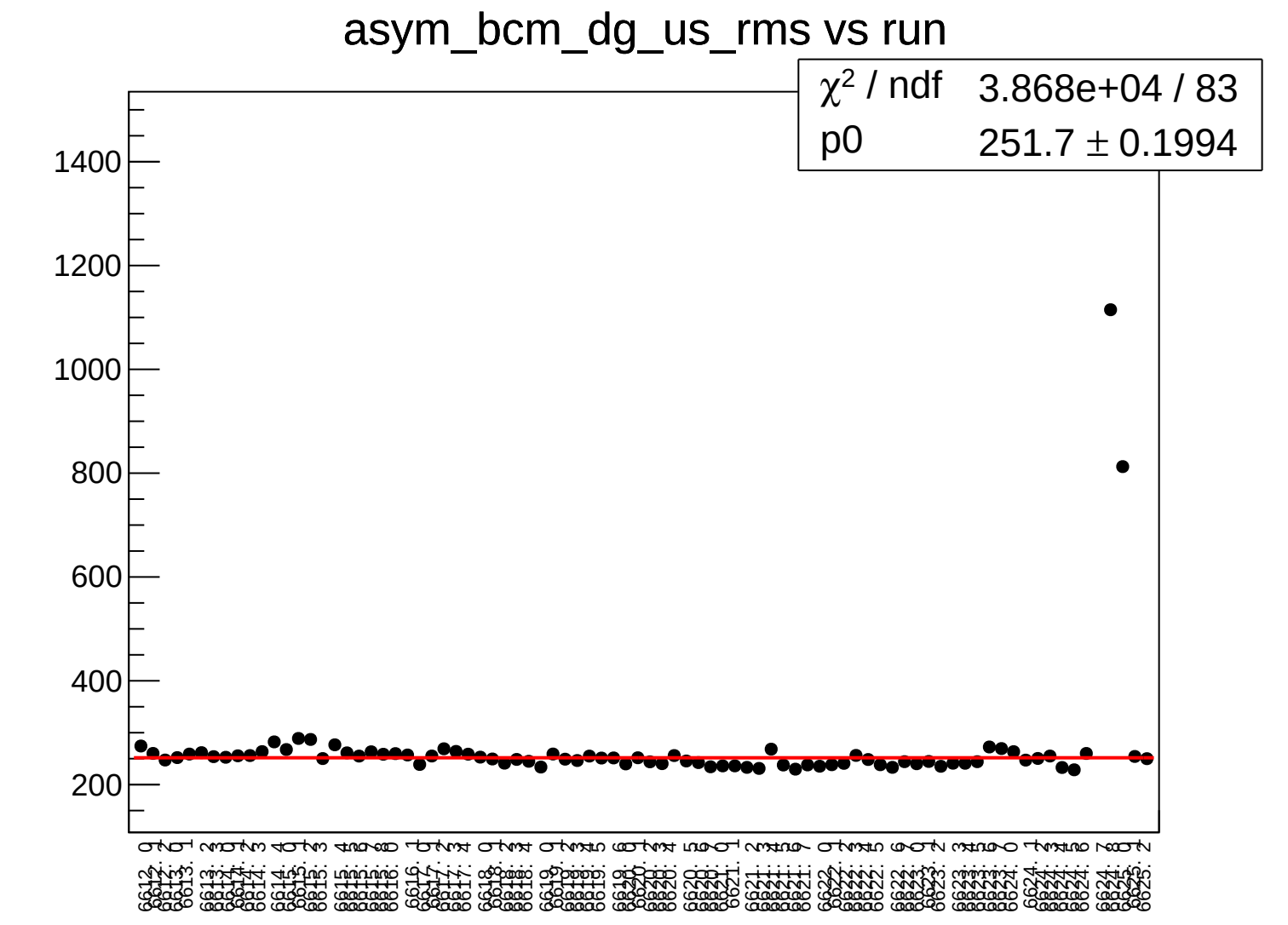

asym_bcm_an_us_mean vs run
χ² / ndf 12.84 / 83
p0 267.9 ± 275.3
pull
Entries 84
Mean −113.3
Std Dev 0

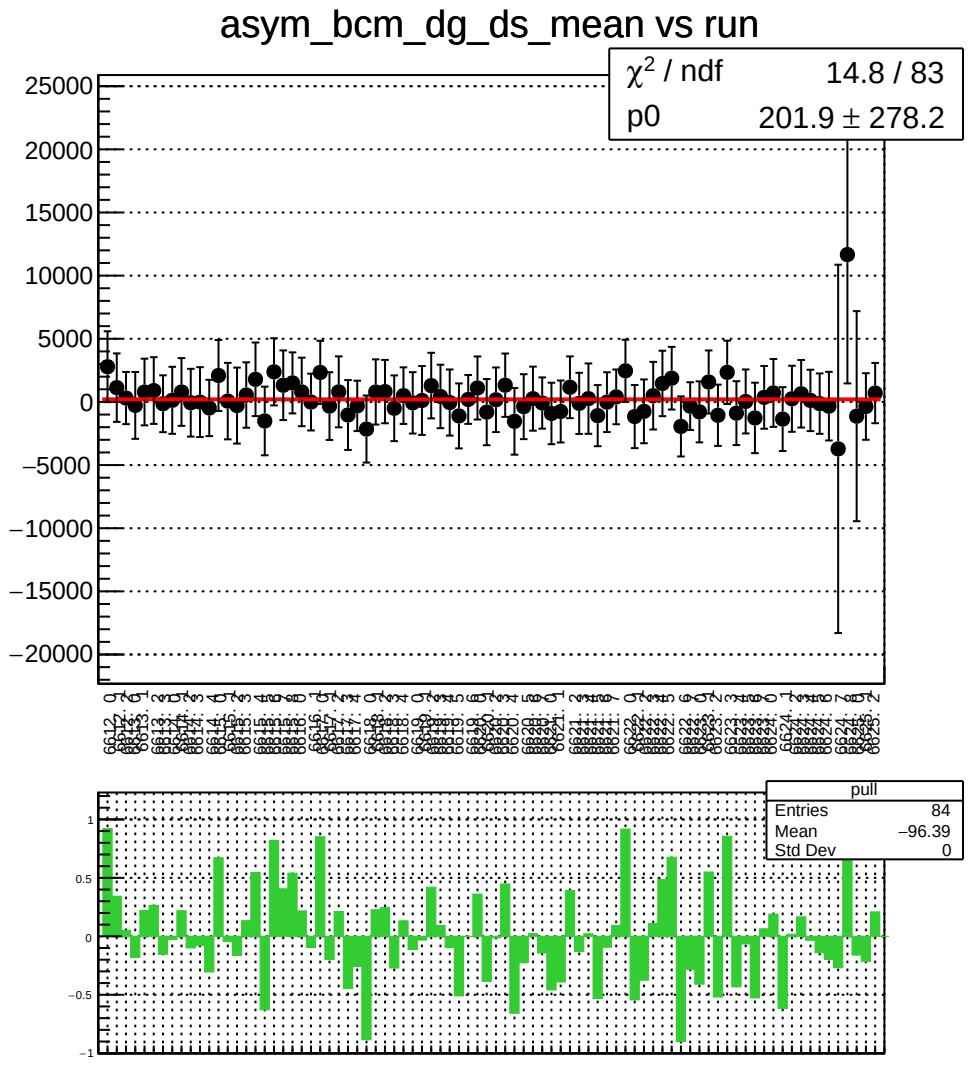

pull1D
Entries 84
Mean 0.00844
Std Dev 0.3909

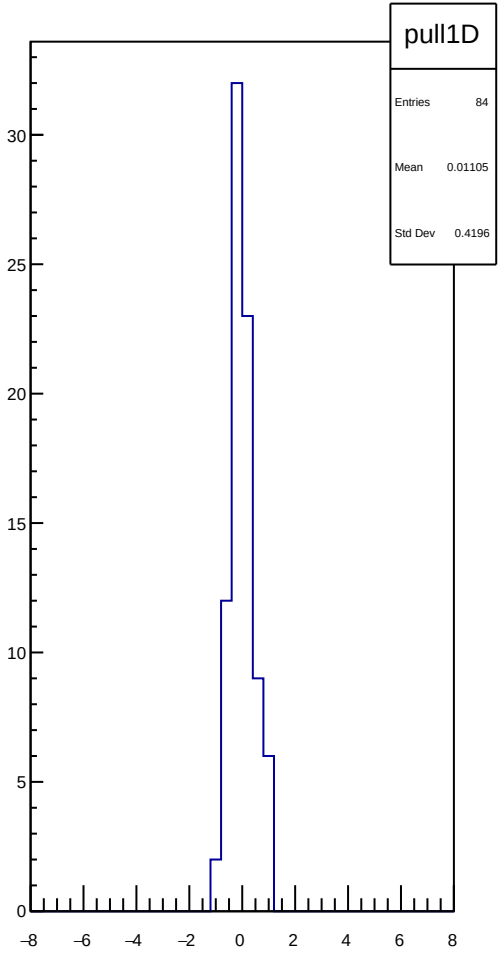

asym_bcm_an_us_rms vs run
χ² / ndf 3.9e+04 / 83
p0 245.7 ± 0.1946
1400
1200
1000
800
600
400
200

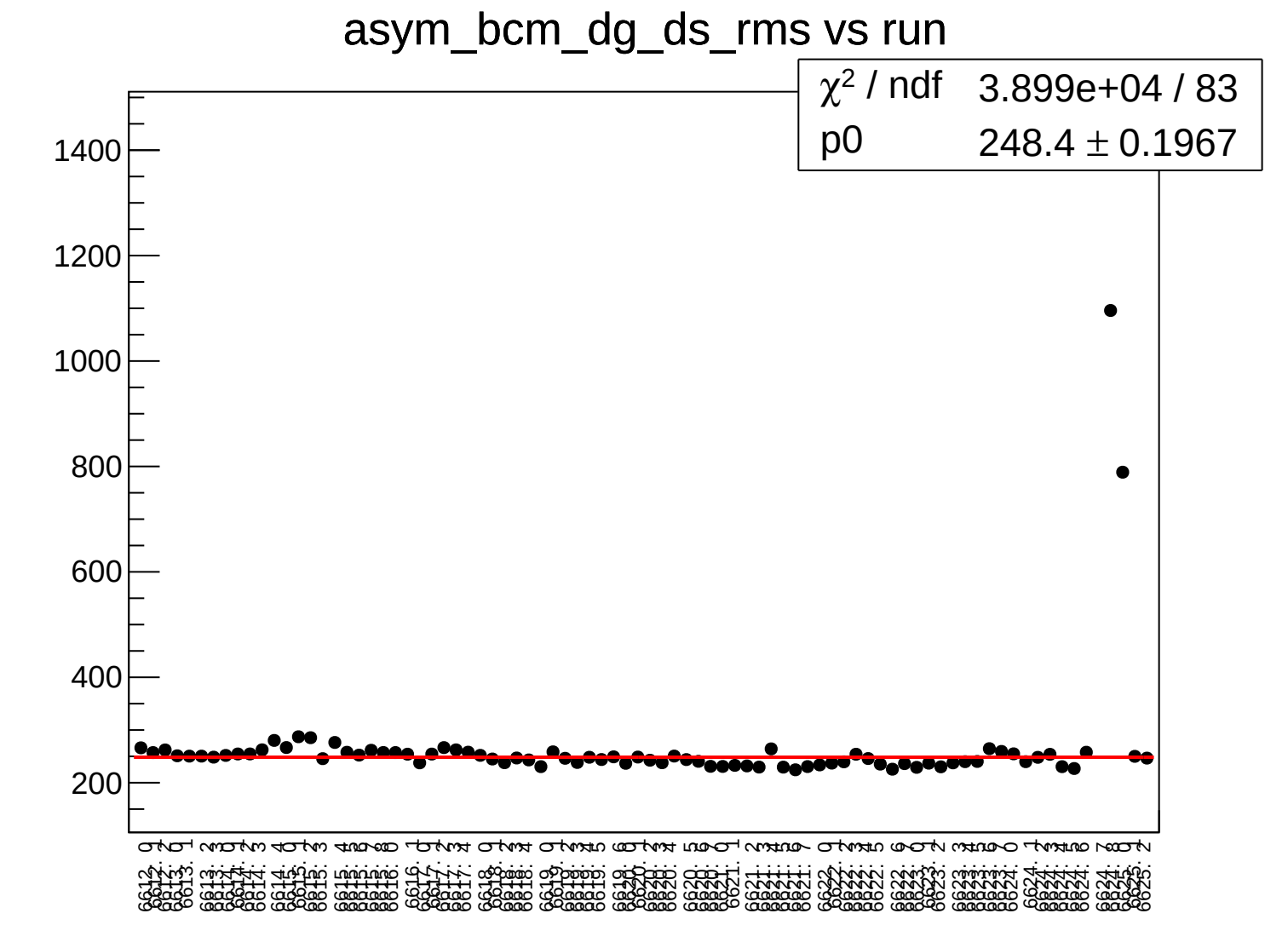

asym_bcm_dg_us_mean vs run
χ² / ndf 16.15 / 83
p0 265.7 ± 281.9
pull
Entries 84
Mean −69.01
Std Dev 0

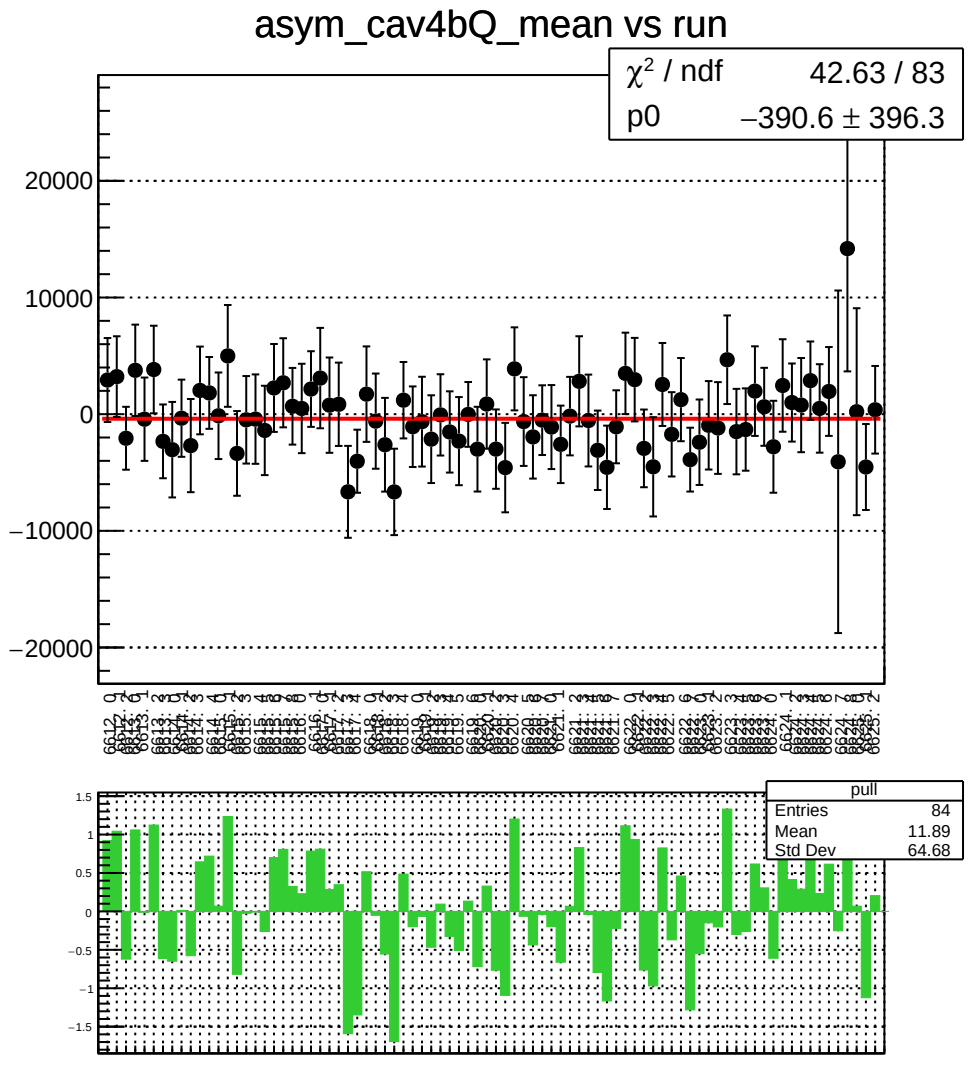

pull1D
Entries 84
Mean 0.009399
Std Dev 0.4384

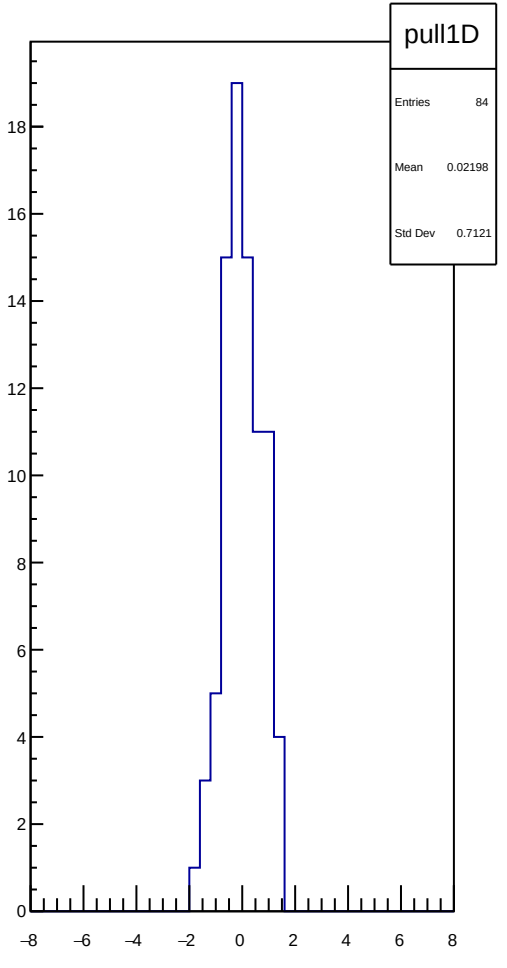

asym_bcm_dg_us_rms vs run
χ² / ndf 3.868e+04 / 83
p0 251.7 ± 0.1994
1400
1200
1000
800
600
400
200

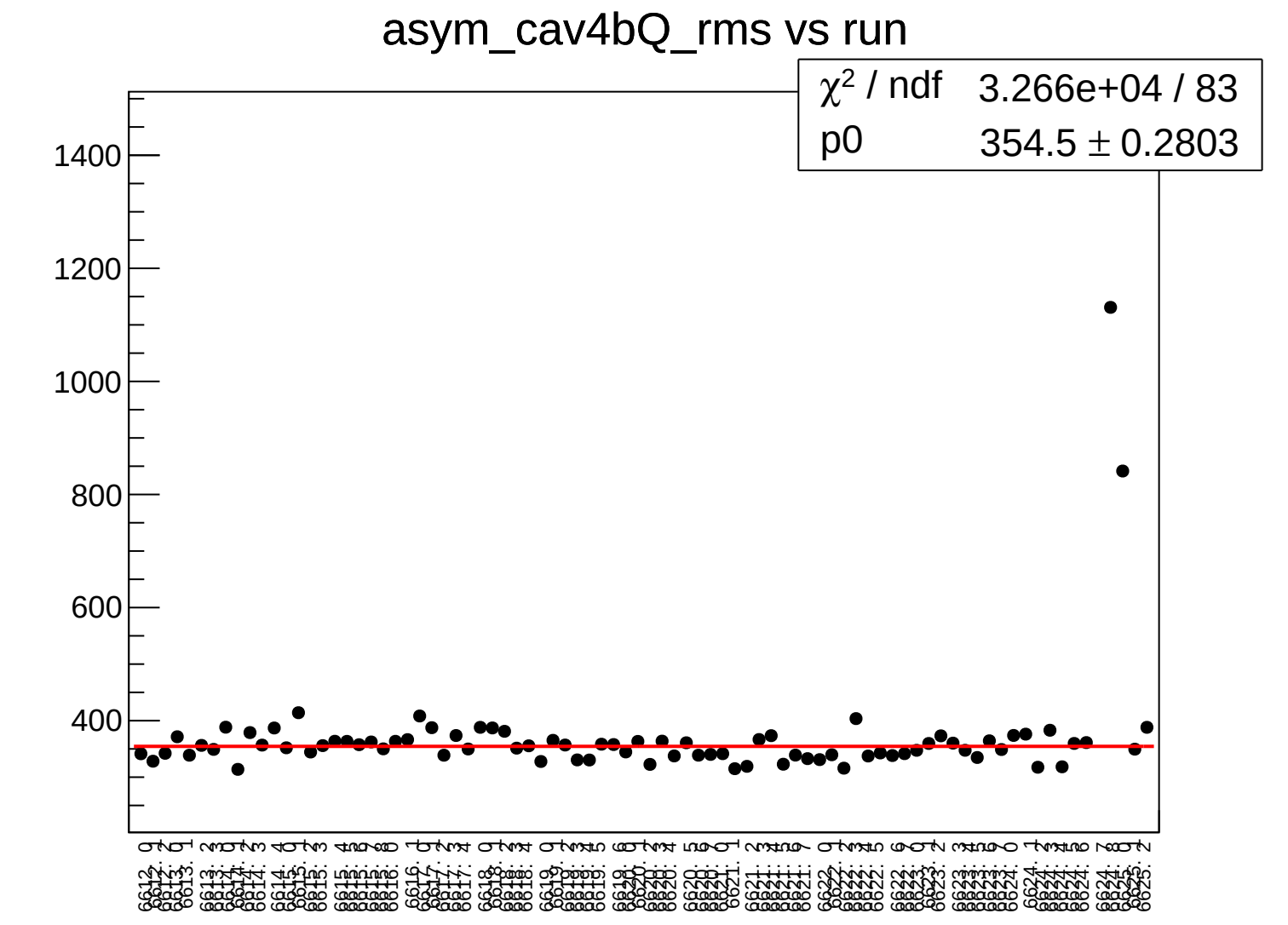

asym_bcm_dg_ds_mean vs run
χ² / ndf 14.8 / 83
p0 201.9 ± 278.2
pull
Entries 84
Mean −96.39
Std Dev 0

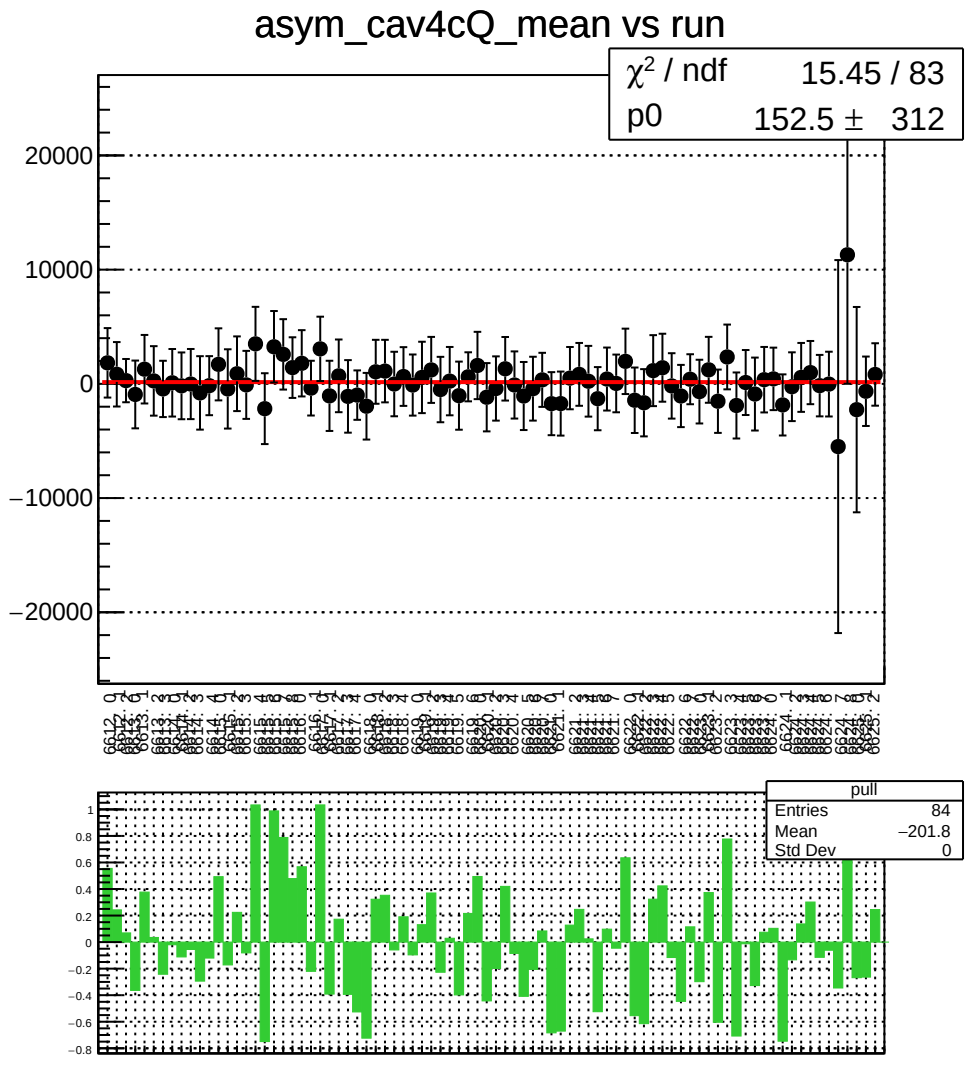

pull1D
Entries 84
Mean 0.01105
Std Dev 0.4196

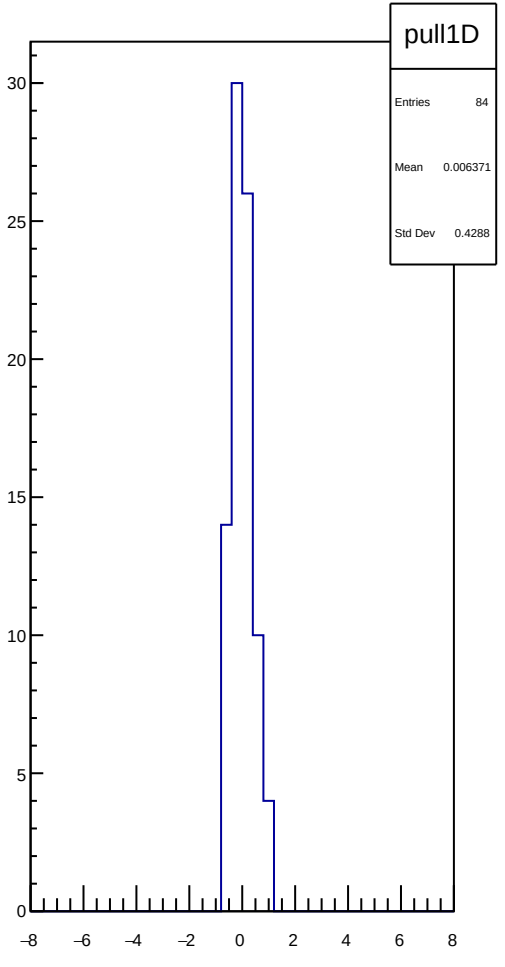

asym_bcm_dg_ds_rms vs run
χ² / ndf 3.899e+04 / 83
p0 248.4 ± 0.1967
1400
1200
1000
800
600
400
200

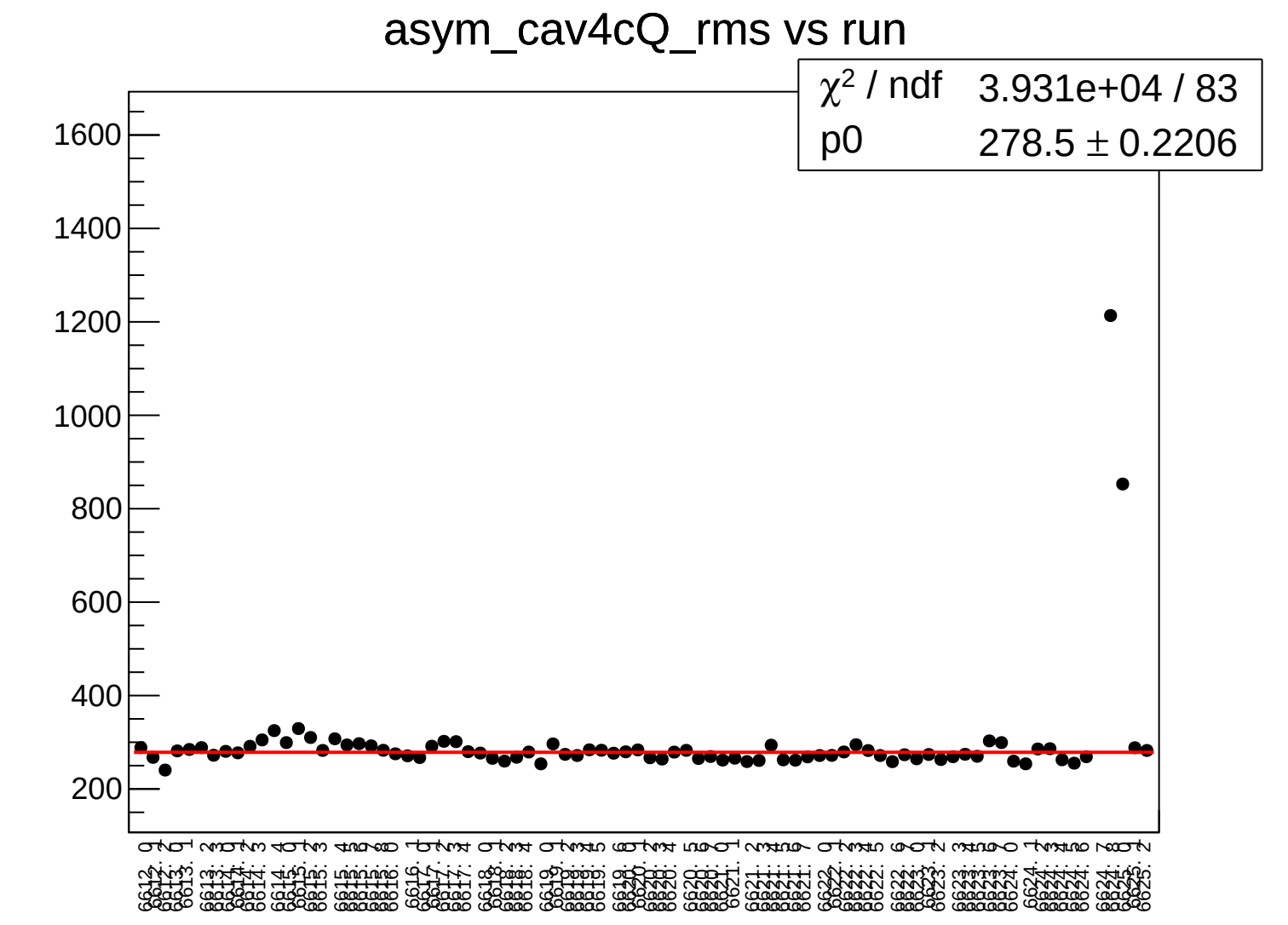

asym_cav4bQ_mean vs run
χ² / ndf 42.63 / 83
p0 −390.6 ± 396.3
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 11.89
Std Dev 64.68
1.5
1
0.5
0
−0.5
−1
−1.5

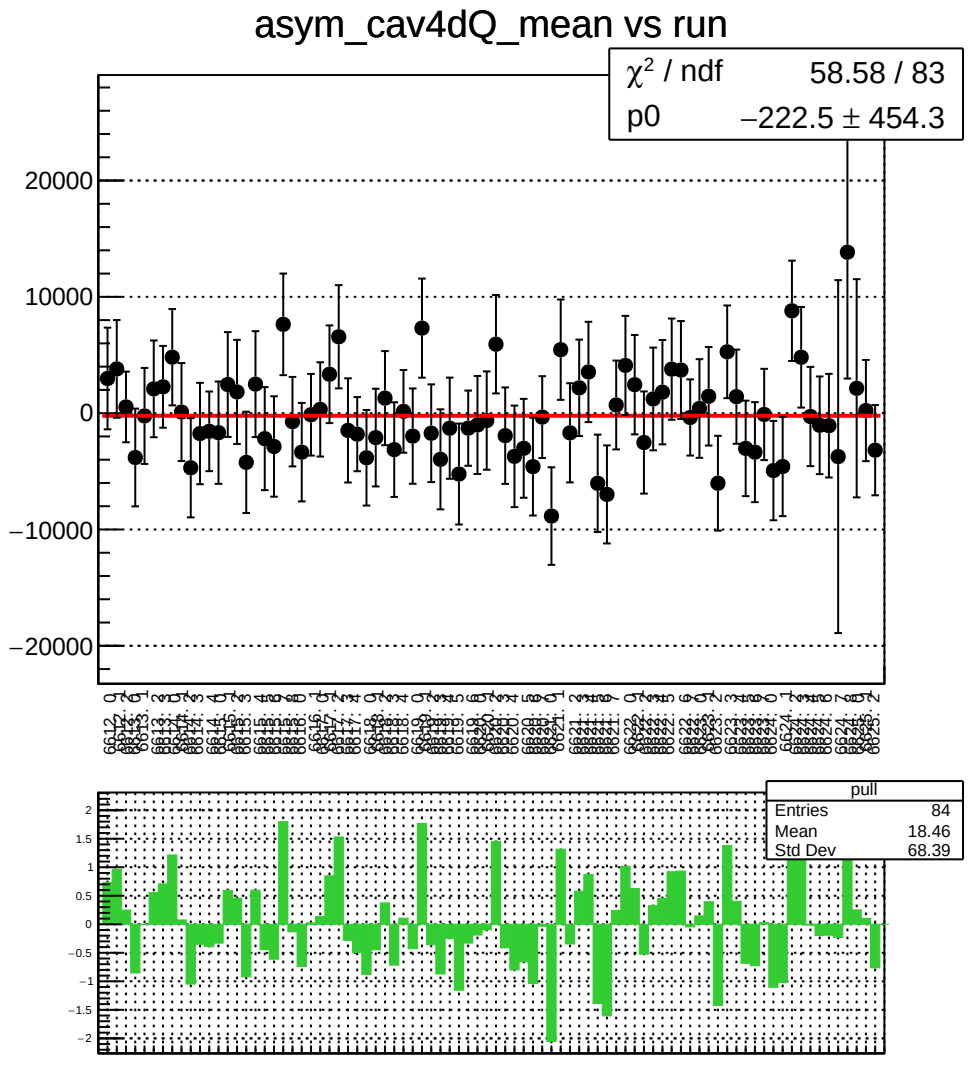

pull1D
Entries 84
Mean 0.02198
Std Dev 0.7121
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

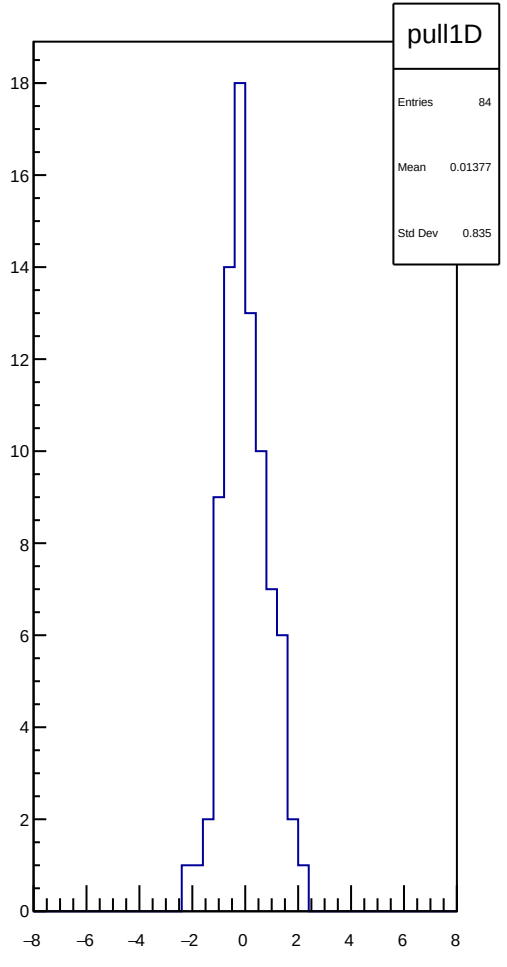

asym_cav4bQ_rms vs run
χ² / ndf 3.266e+04 / 83
p0 354.5 ± 0.2803
1400
1200
1000
800
600
400

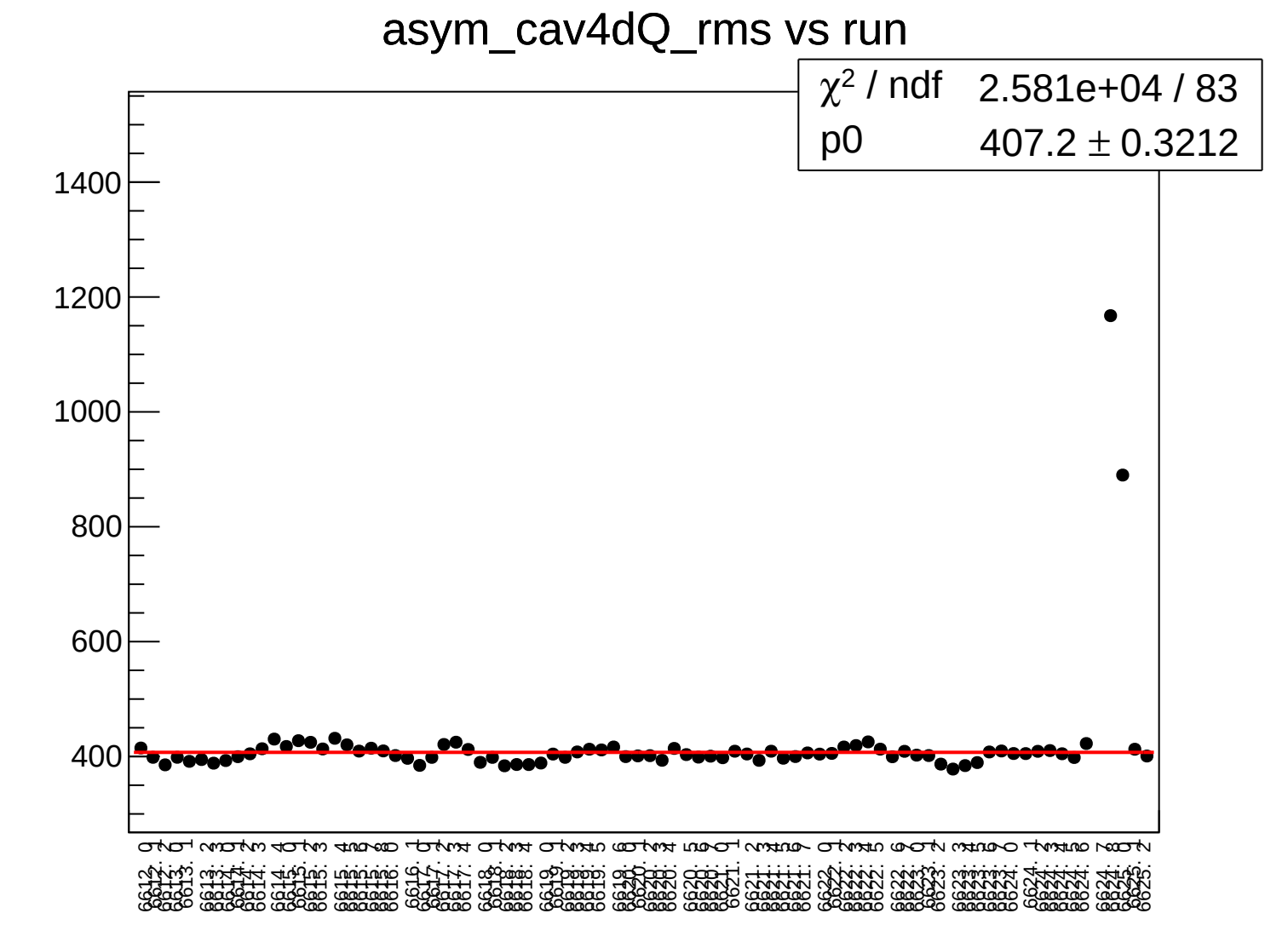

asym_cav4cQ_mean vs run
χ² / ndf 15.45 / 83
p0 152.5 ± 312
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −201.8
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

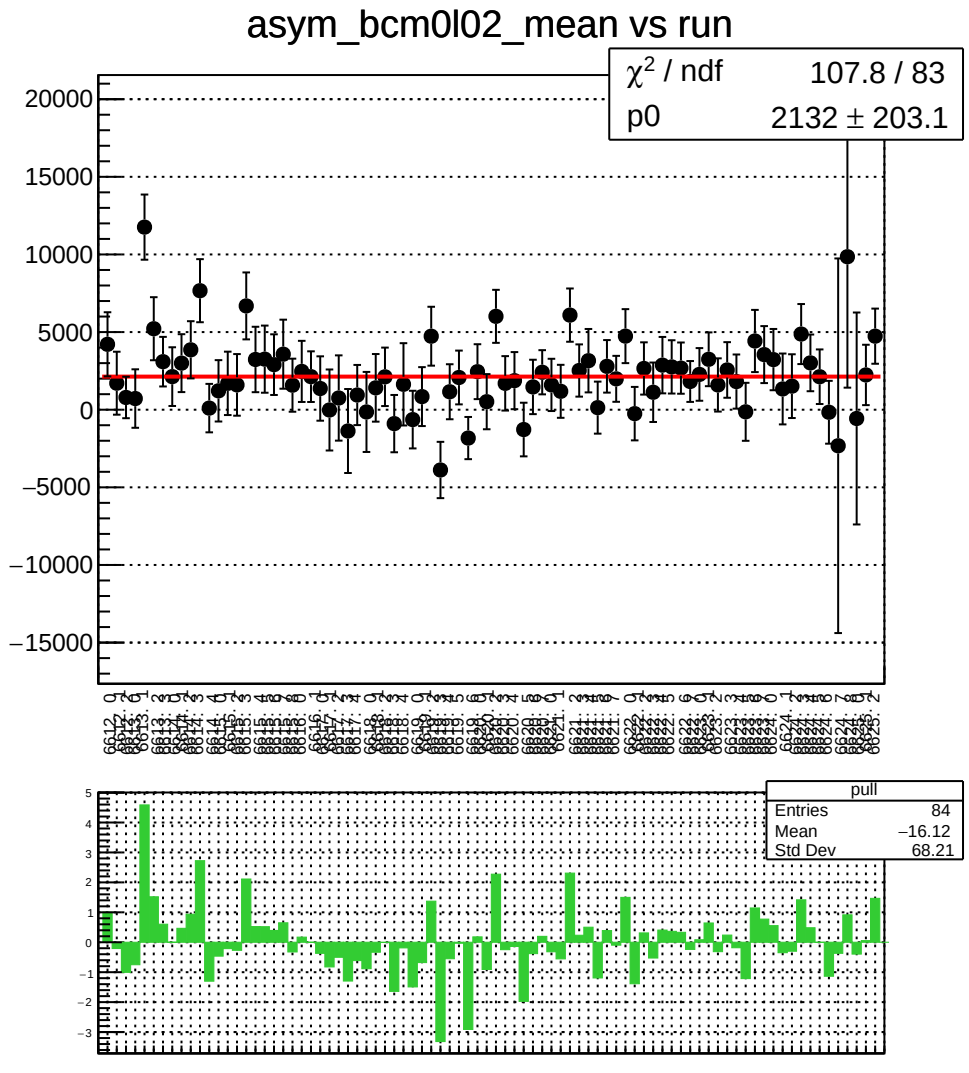

pull1D
Entries 84
Mean 0.006371
Std Dev 0.4288
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

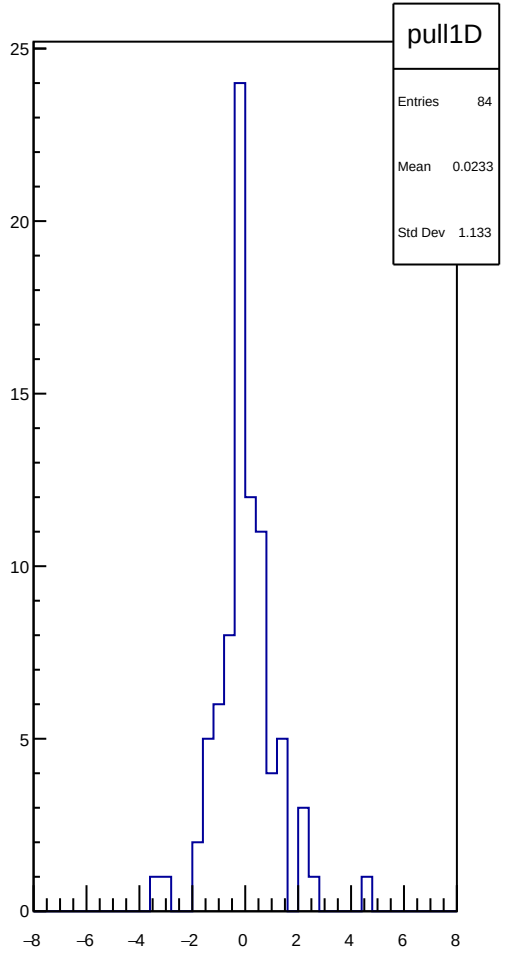

asym_cav4cQ_rms vs run
χ² / ndf 3.931e+04 / 83
p0 278.5 ± 0.2206
1600
1400
1200
1000
800
600
400
200

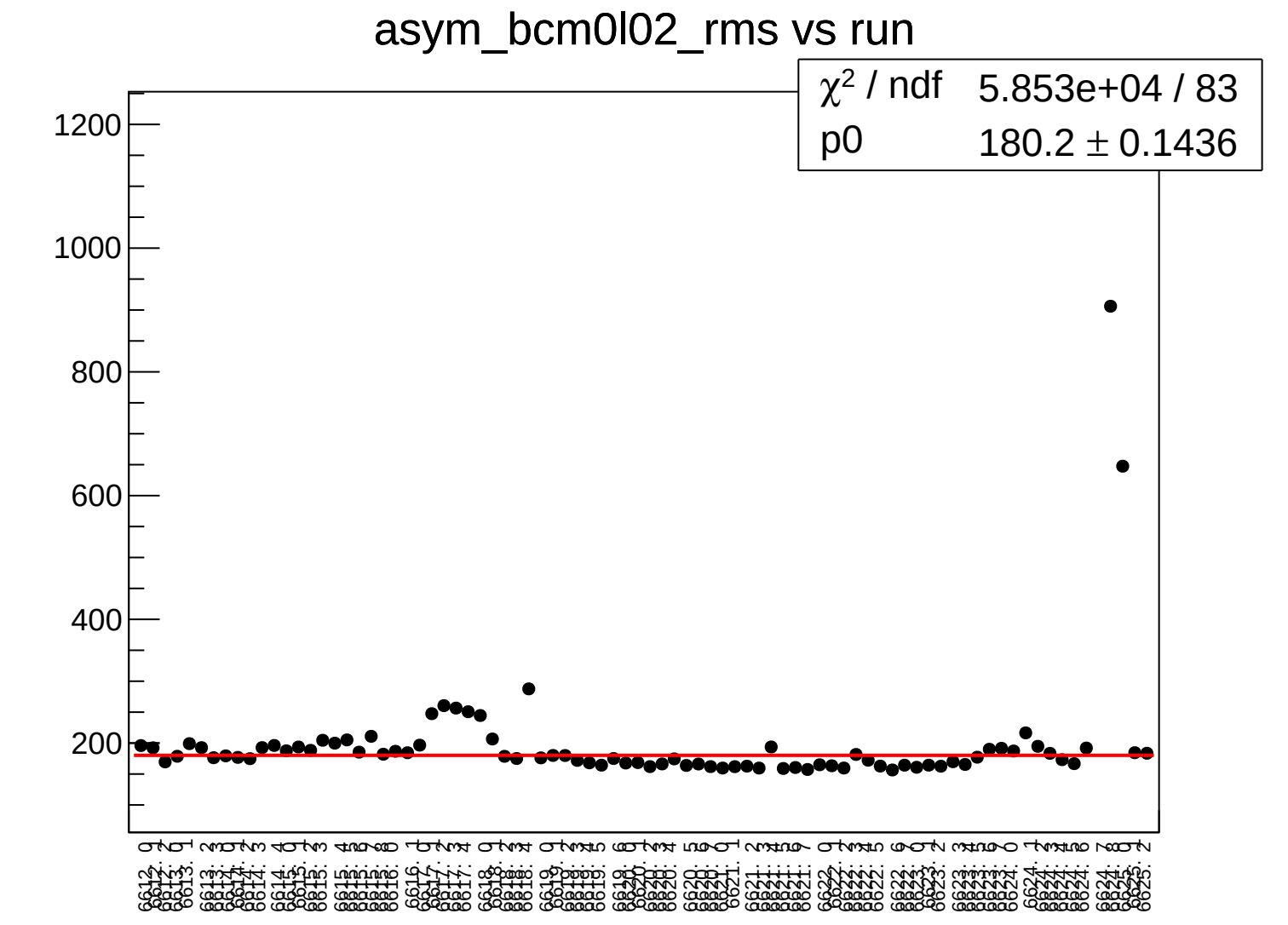

asym_cav4dQ_mean vs run
χ² / ndf 58.58 / 83
p0 −222.5 ± 454.3
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 18.46
Std Dev 68.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

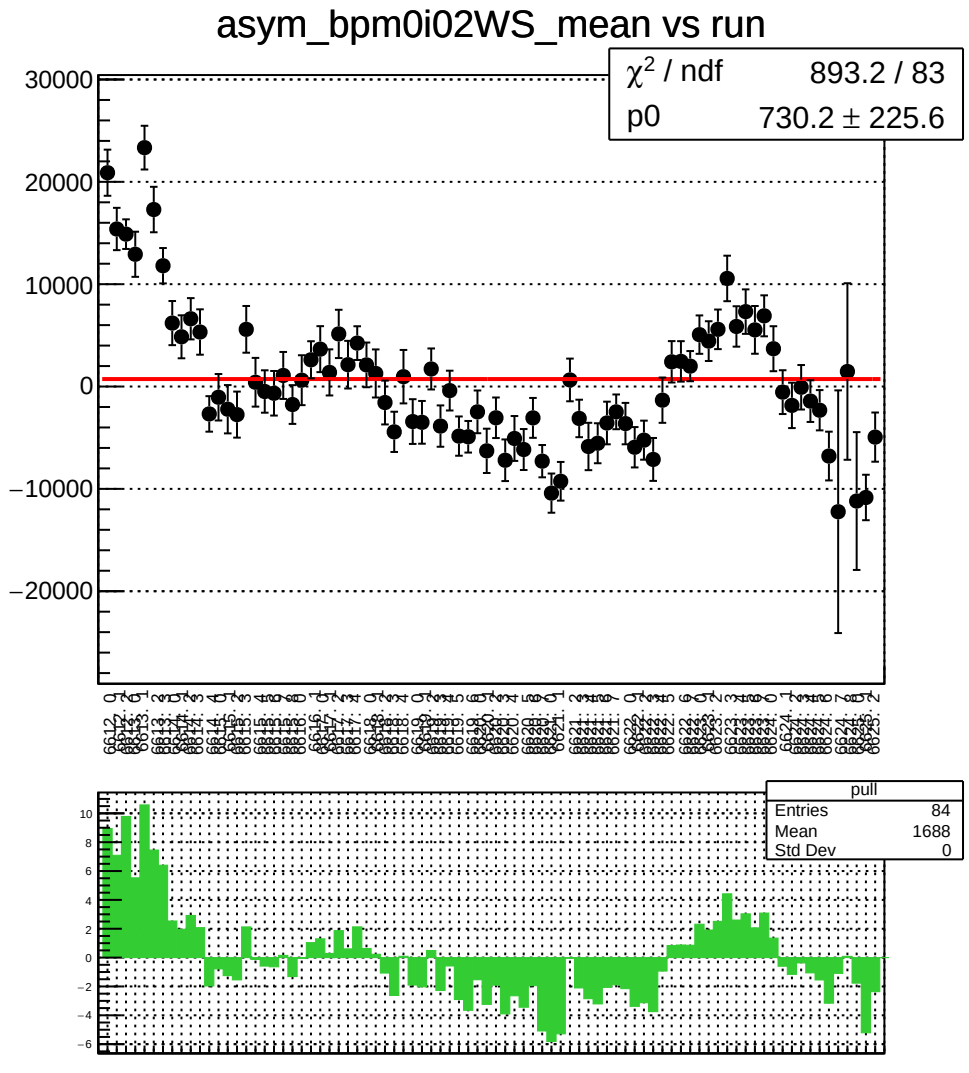

pull1D
Entries 84
Mean 0.01377
Std Dev 0.835
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

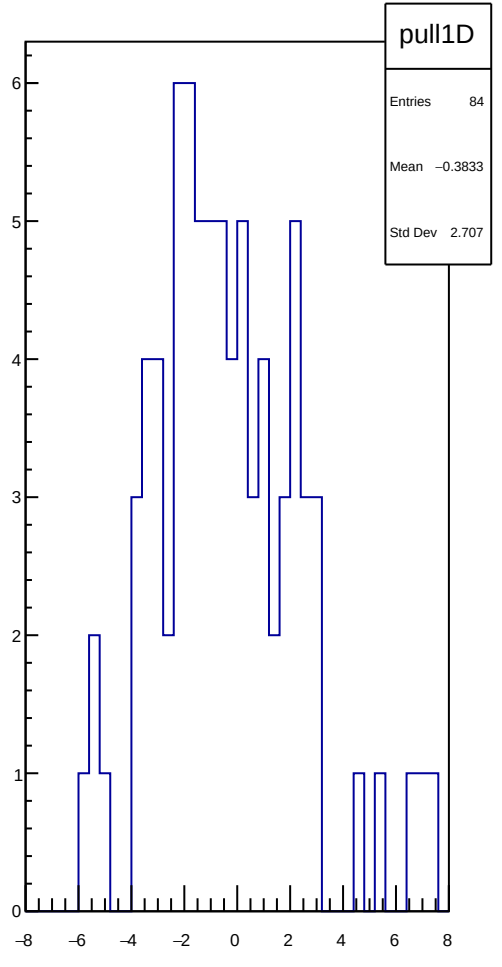

asym_cav4dQ_rms vs run
χ² / ndf 2.581e+04 / 83
p0 407.2 ± 0.3212
1400
1200
1000
800
600
400

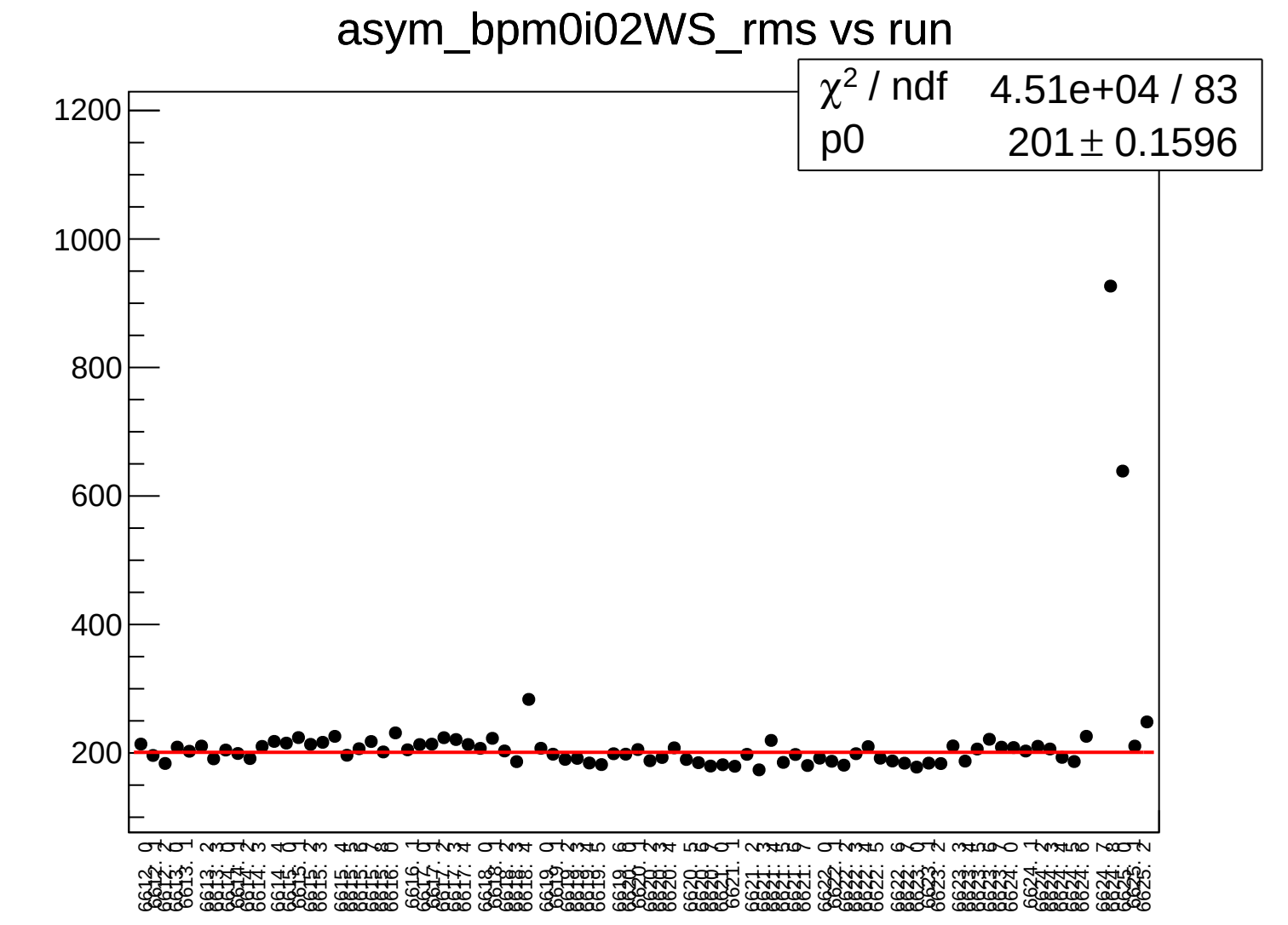

asym_bcm0l02_mean vs run
χ² / ndf 107.8 / 83
p0 2132 ± 203.1
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −16.12
Std Dev 68.21
5
4
3
2
1
0
−1
−2
−3

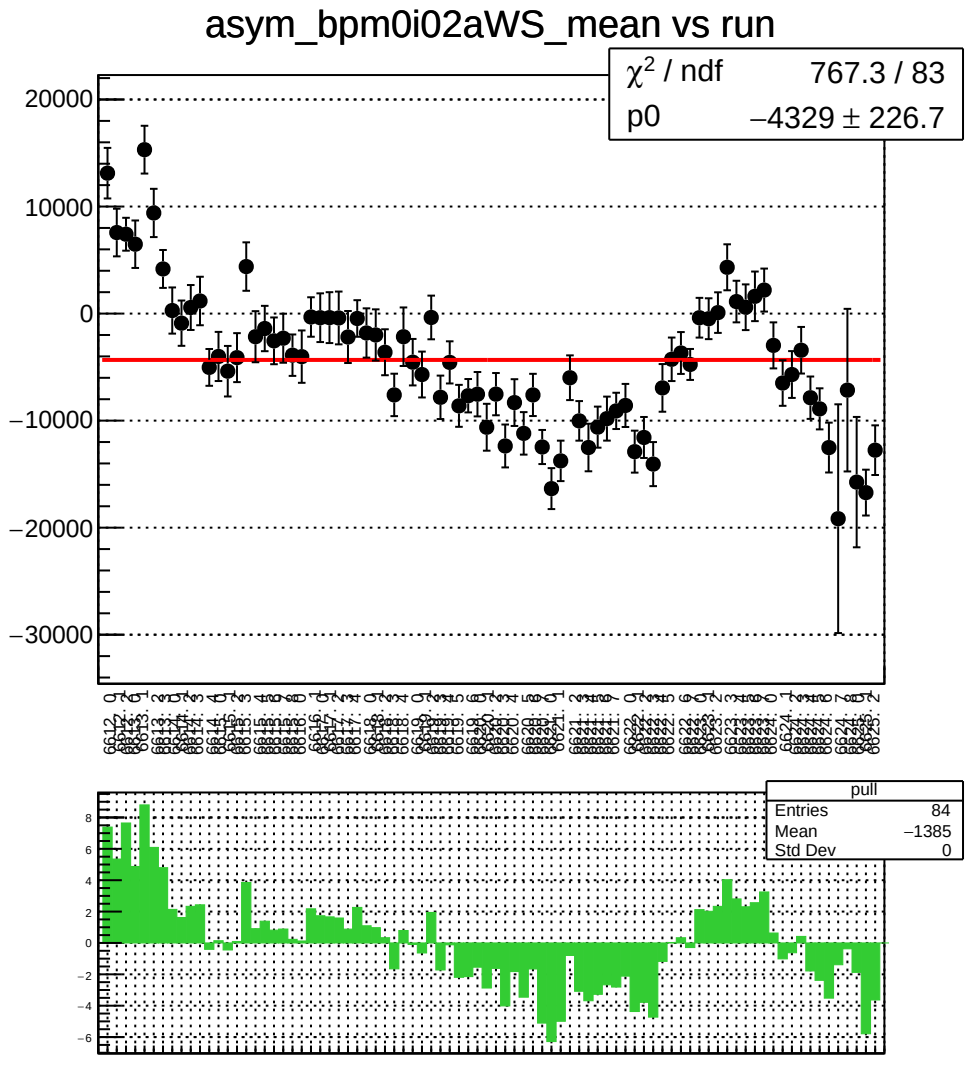

pull1D
Entries 84
Mean 0.0233
Std Dev 1.133
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

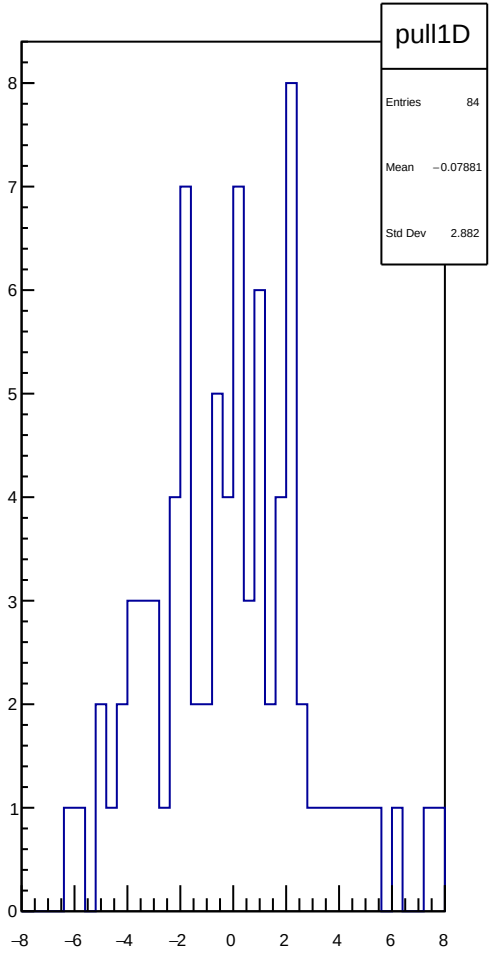

asym_bcm0l02_rms vs run
χ² / ndf 5.853e+04 / 83
p0 180.2 ± 0.1436
1200
1000
800
600
400
200

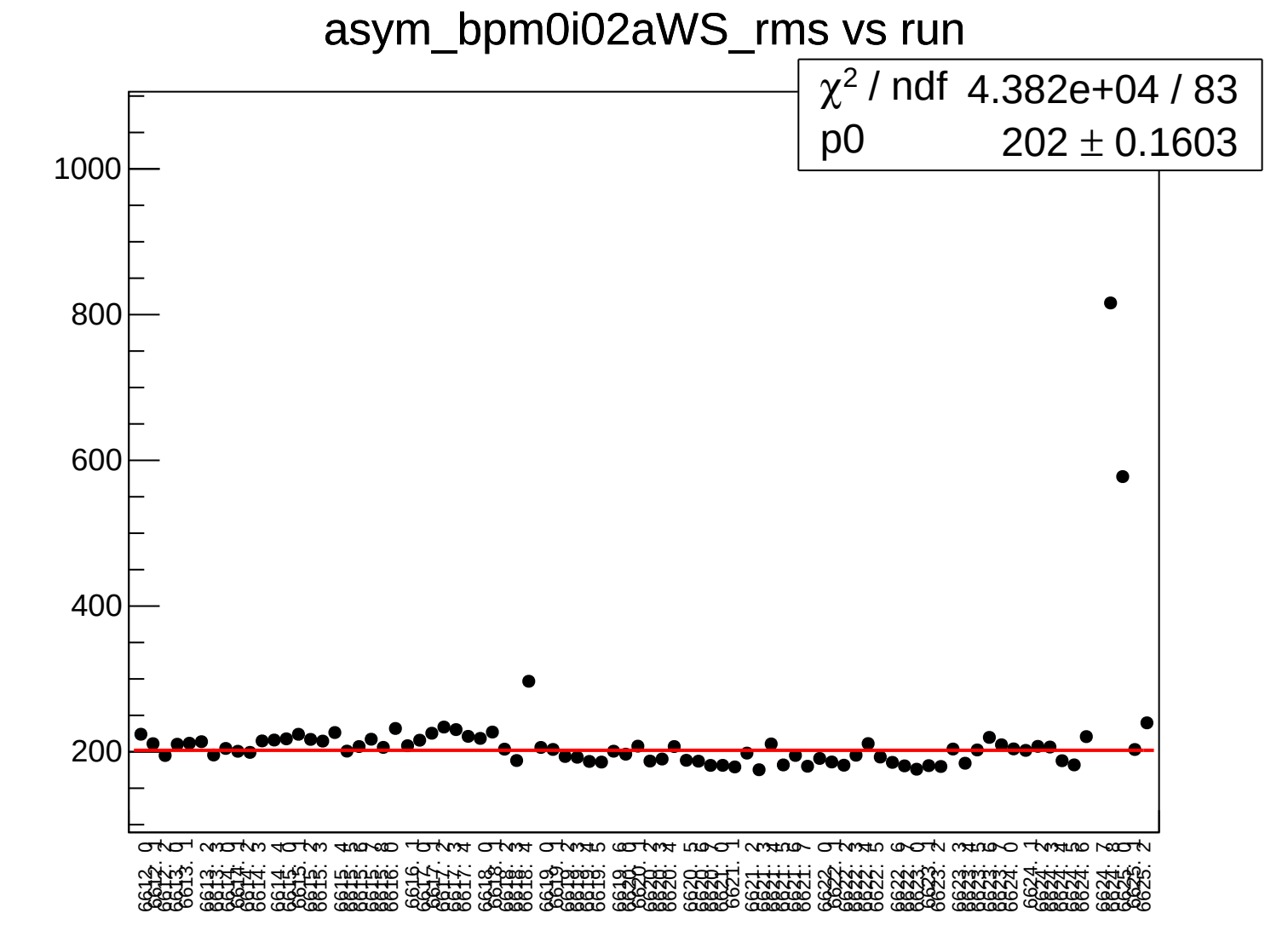

asym_bpm0i02WS_mean vs run
χ² / ndf 893.2 / 83
p0 730.2 ± 225.6
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 1688
Std Dev 0
10
8
6
4
2
0
−2
−4
−6

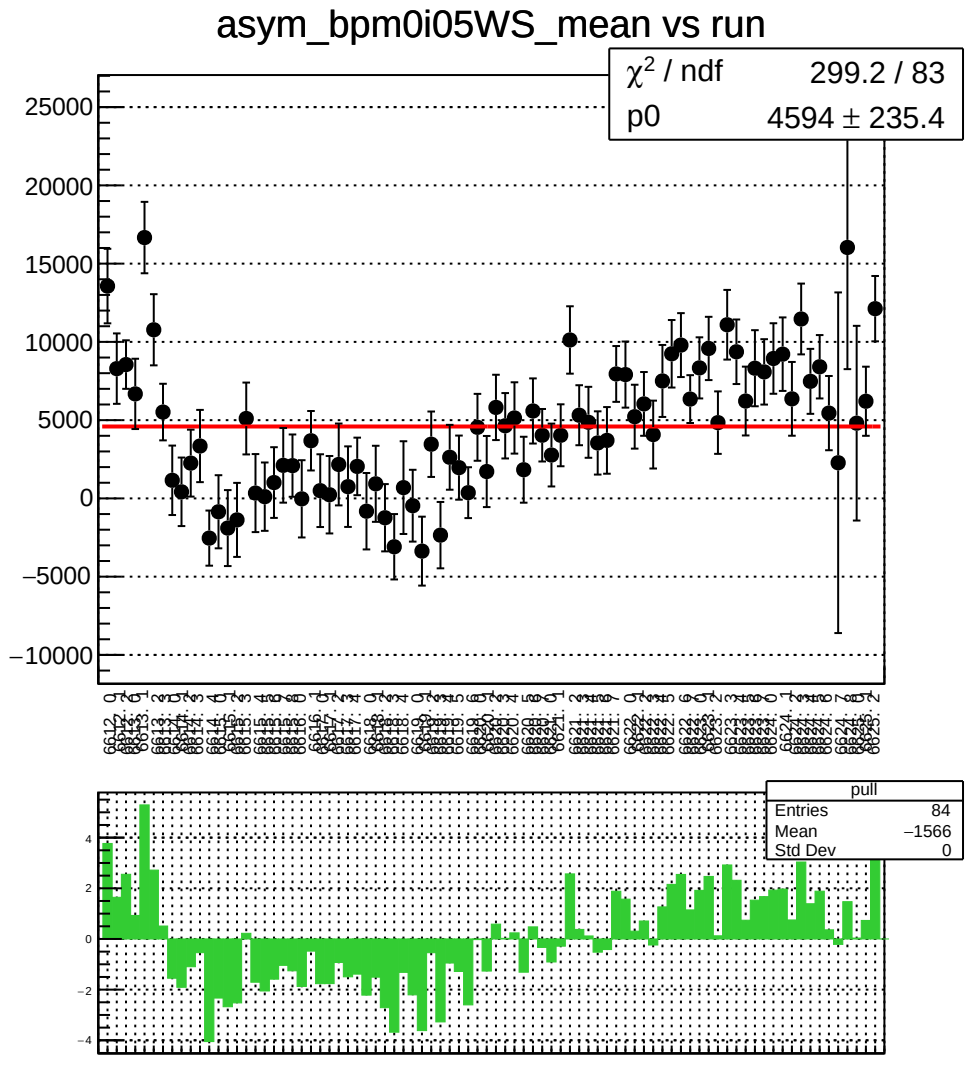

pull1D
Entries 84
Mean −0.3833
Std Dev 2.707
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

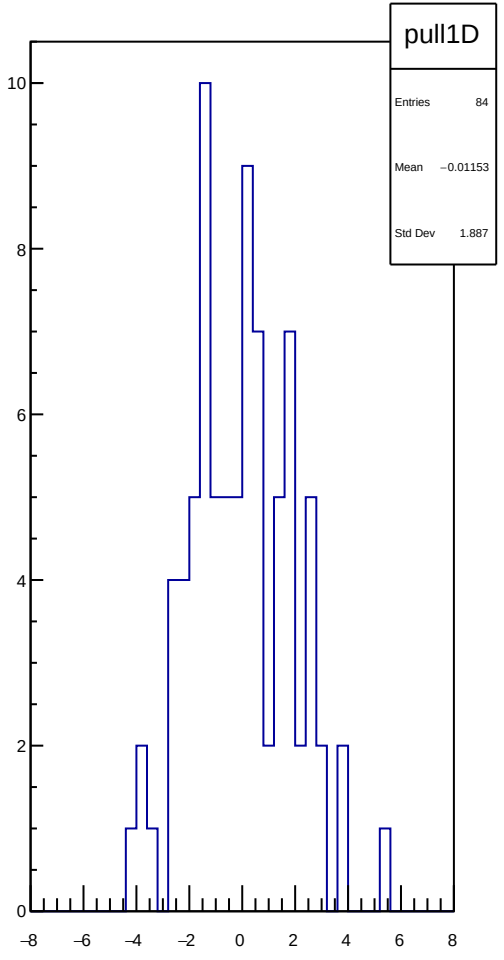

asym_bpm0i02WS_rms vs run
χ² / ndf 4.51e+04 / 83
p0 201 ± 0.1596
1200
1000
800
600
400
200

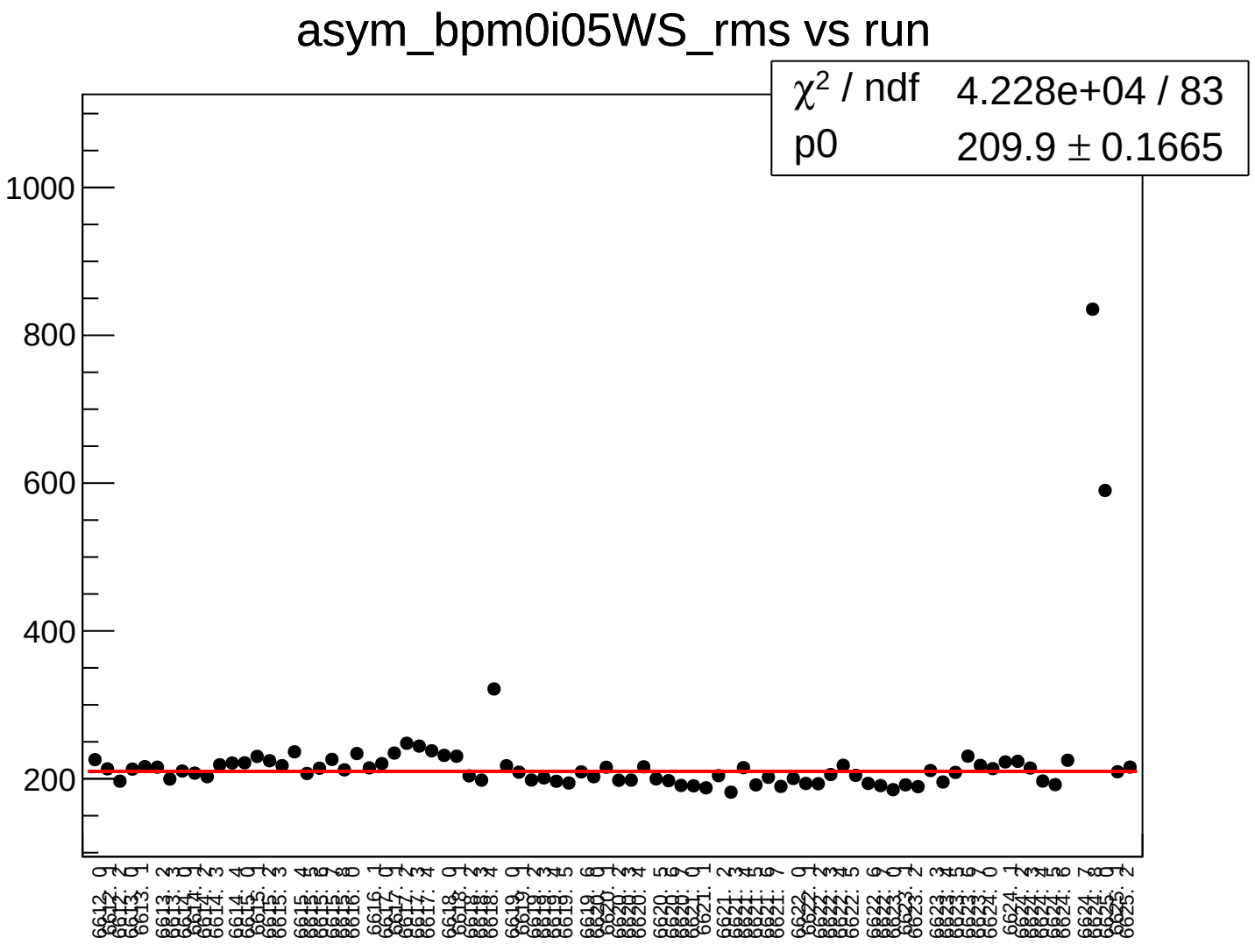

asym_bpm0i02aWS_mean vs run
χ² / ndf 767.3 / 83
p0 −4329 ± 226.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −1385
Std Dev 0
8
6
4
2
0
−2
−4
−6

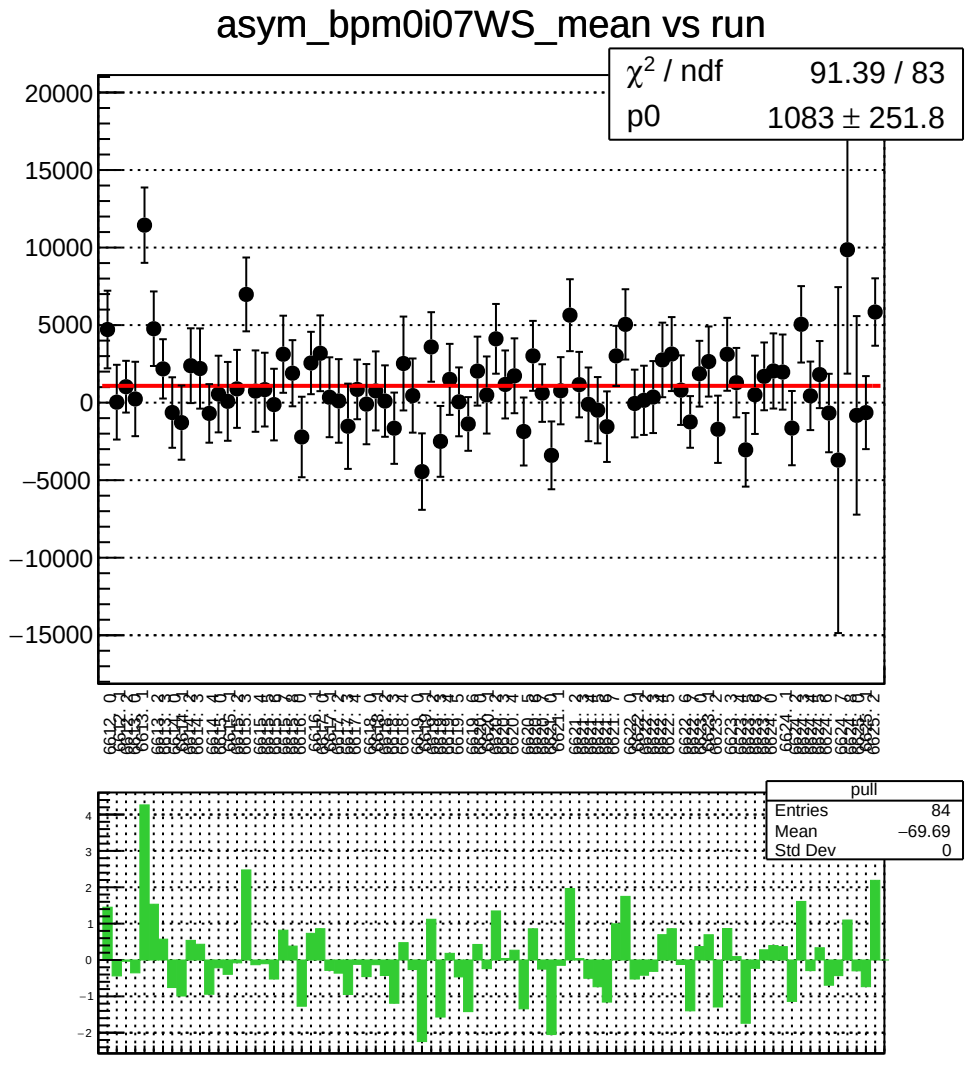

pull1D
Entries 84
Mean −0.07881
Std Dev 2.882
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

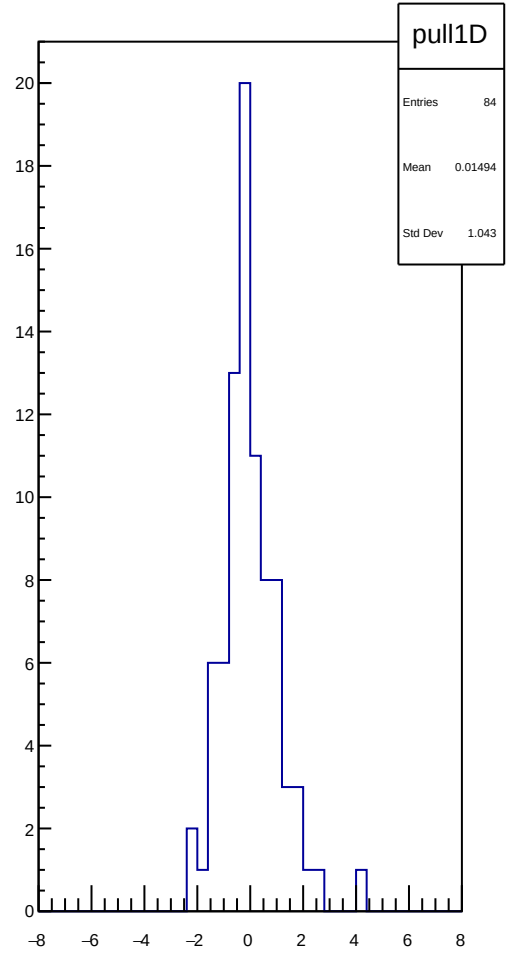

asym_bpm0i02aWS_rms vs run
χ^2 / ndf 4.382e+04 / 83
p0 202 ± 0.1603
1000
800
600
400
200

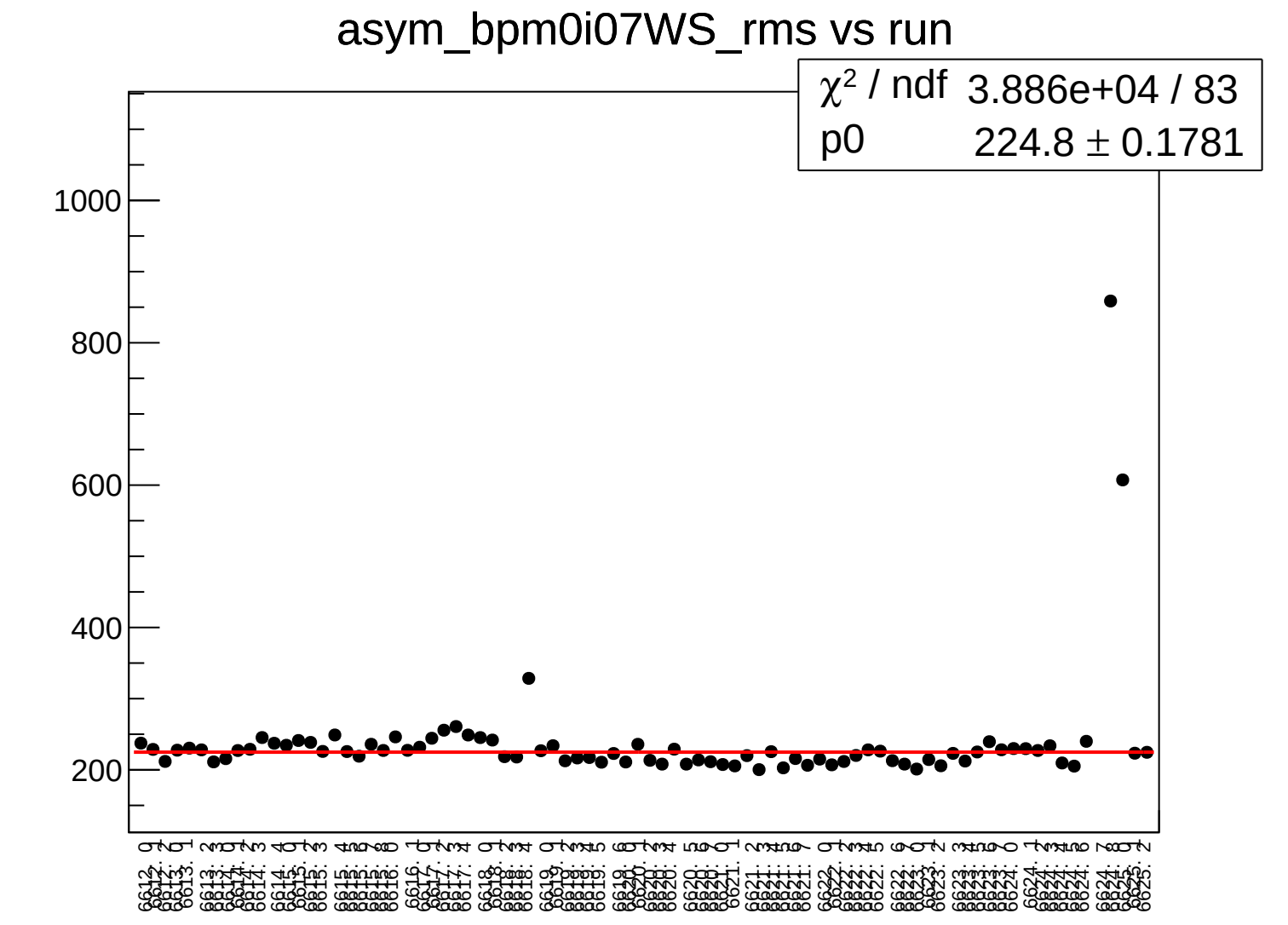

asym_bpm0i05WS_mean vs run
χ² / ndf 299.2 / 83
p0 4594 ± 235.4
pull
Entries 84
Mean −1566
Std Dev 0

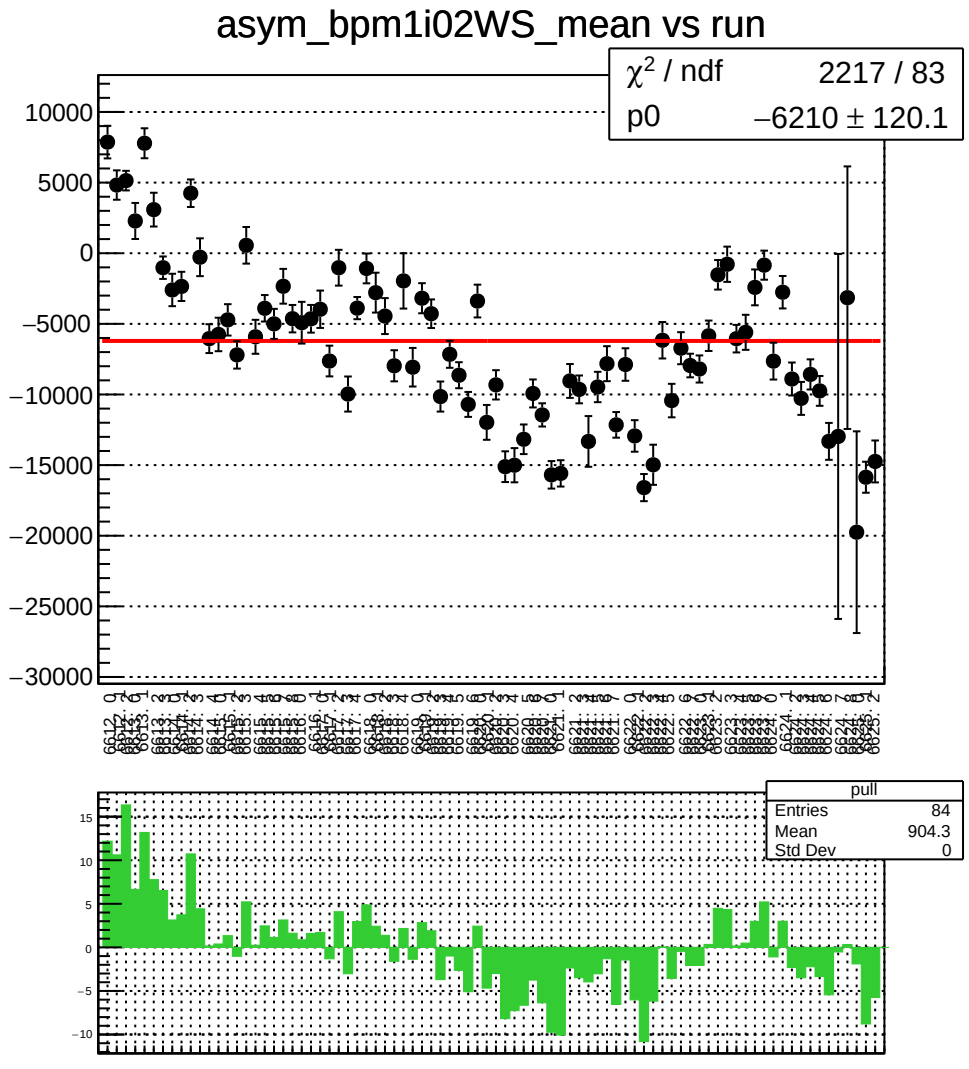

pull1D
Entries 84
Mean −0.01153
Std Dev 1.887

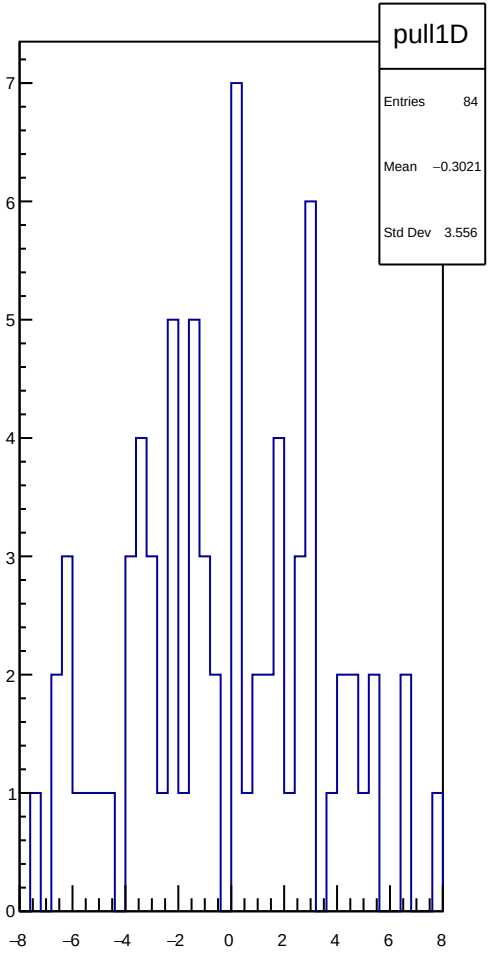

asym_bpm0i05WS_rms vs run
χ² / ndf 4.228e+04 / 83
p0 209.9 ± 0.1665
1000
800
600
400
200

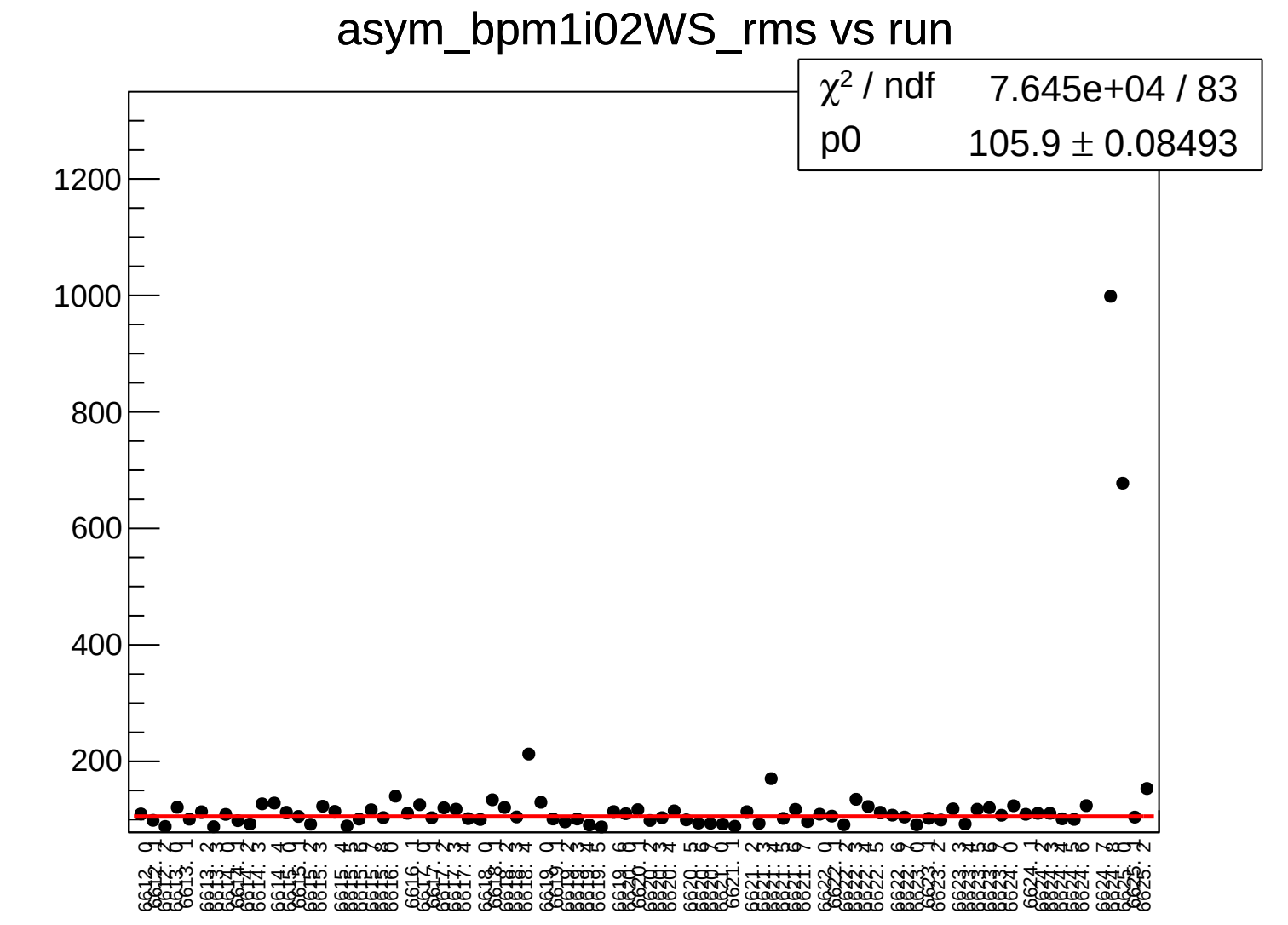

asym_bpm0i07WS_mean vs run
χ^2 / ndf 91.39 / 83
p0 1083 ± 251.8
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −69.69
Std Dev 0
4
3
2
1
0
−1
−2

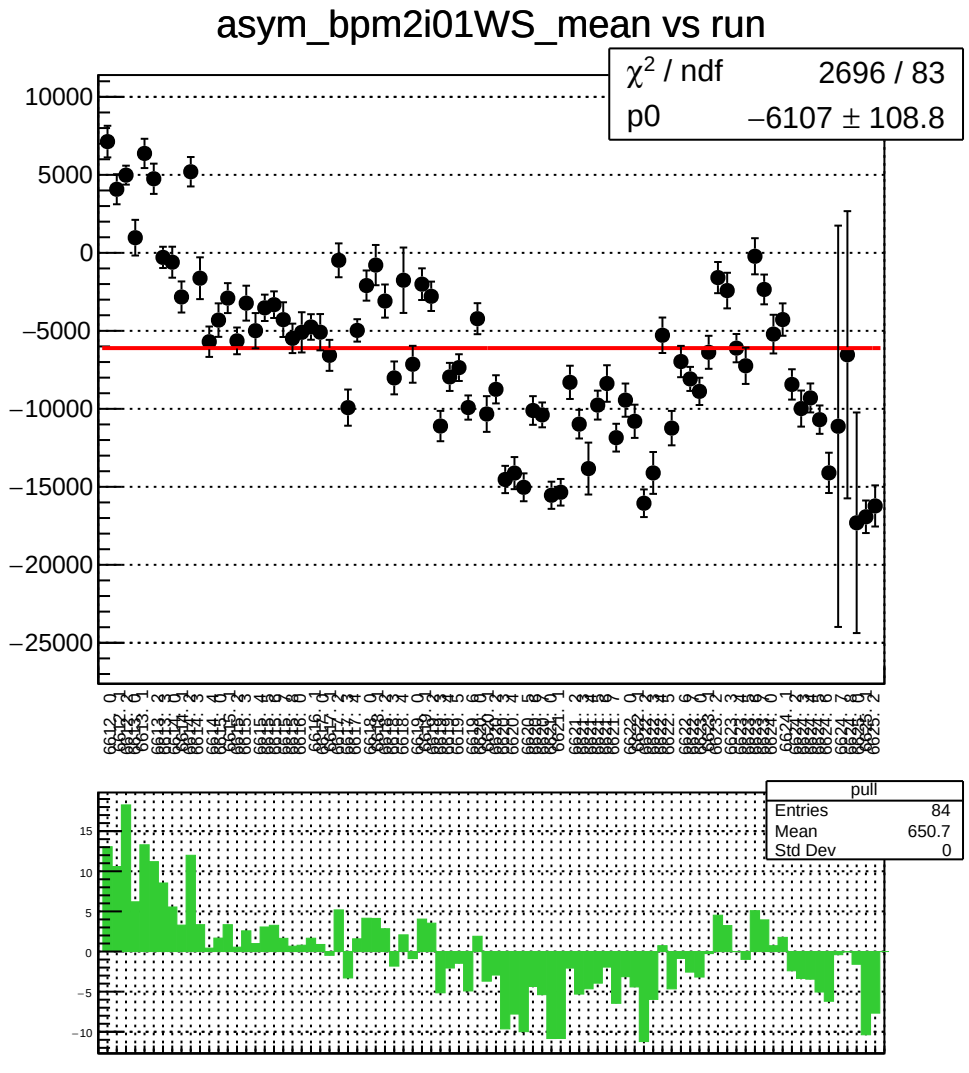

pull1D
Entries 84
Mean 0.01494
Std Dev 1.043
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

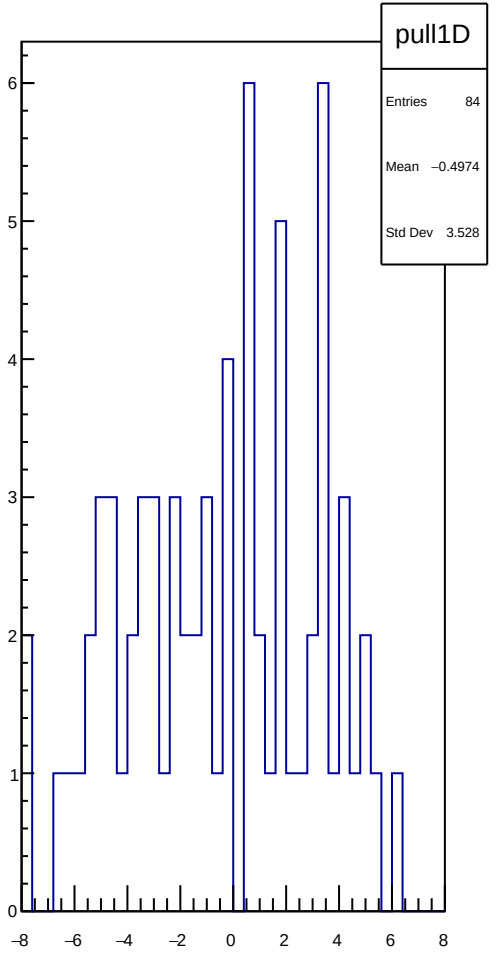

asym_bpm0i07WS_rms vs run
χ² / ndf 3.886e+04 / 83
p0 224.8 ± 0.1781
1000
800
600
400
200

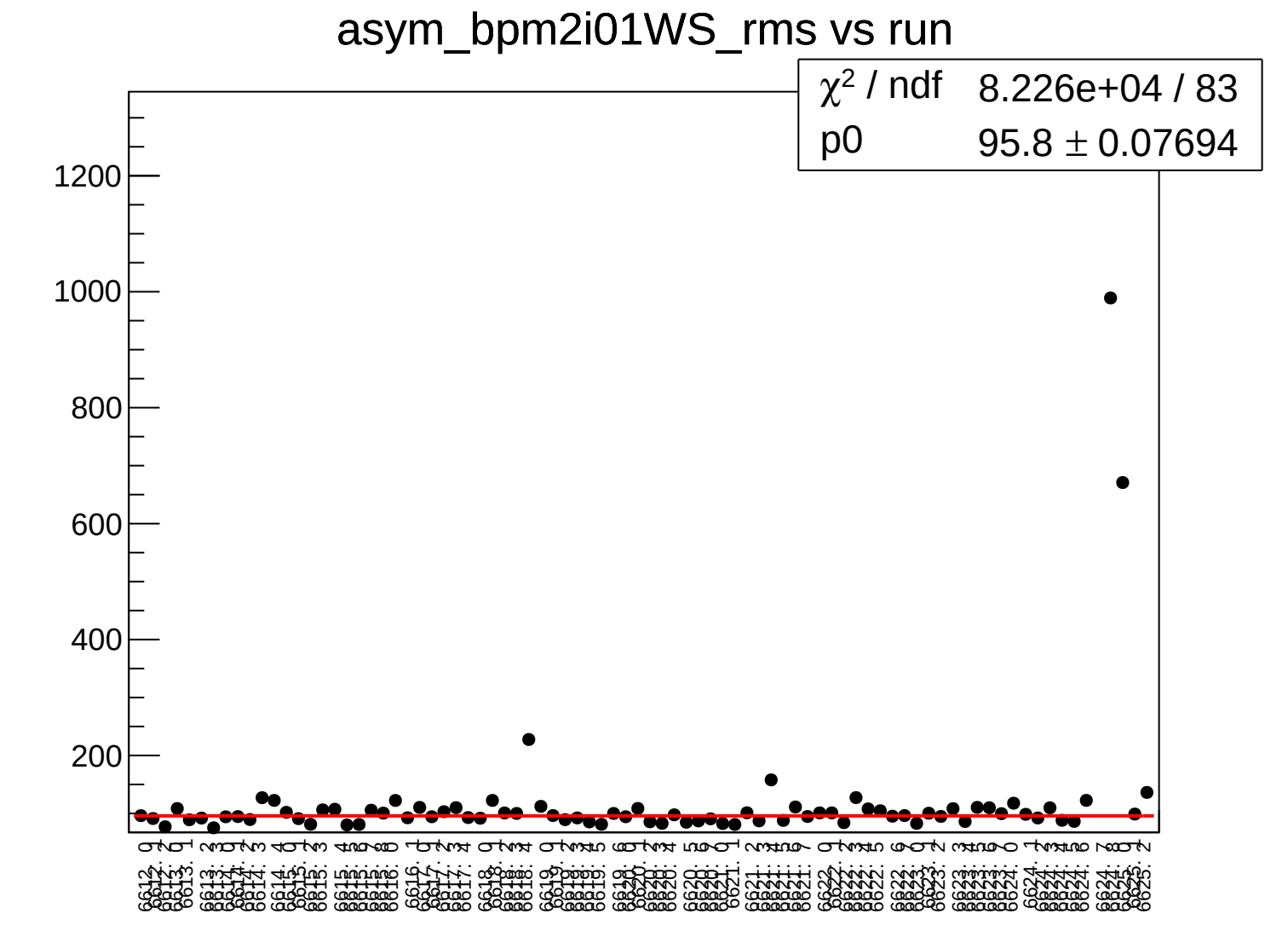

asym_bpm1i02WS_mean vs run
χ² / ndf 2217 / 83
p0 −6210 ± 120.1
pull
Entries 84
Mean 904.3
Std Dev 0

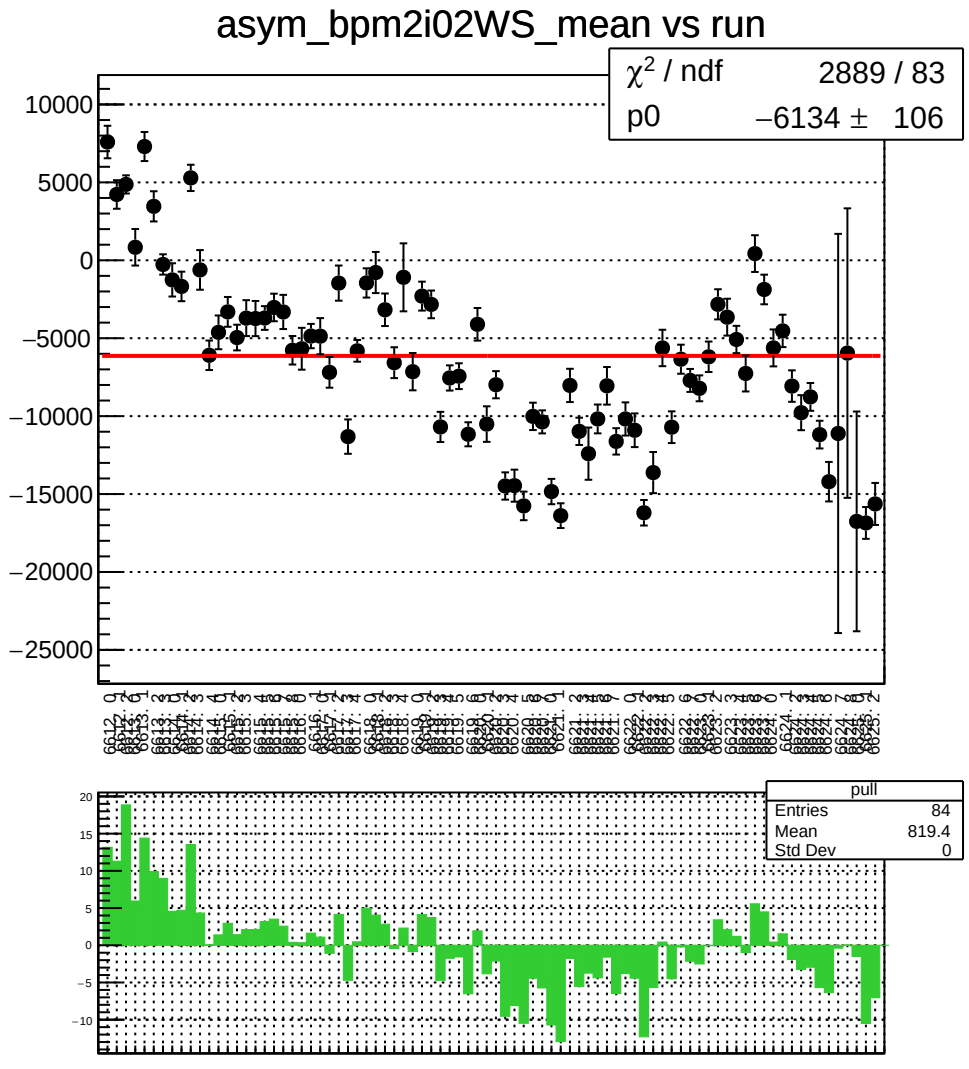

pull1D
Entries 84
Mean −0.3021
Std Dev 3.556

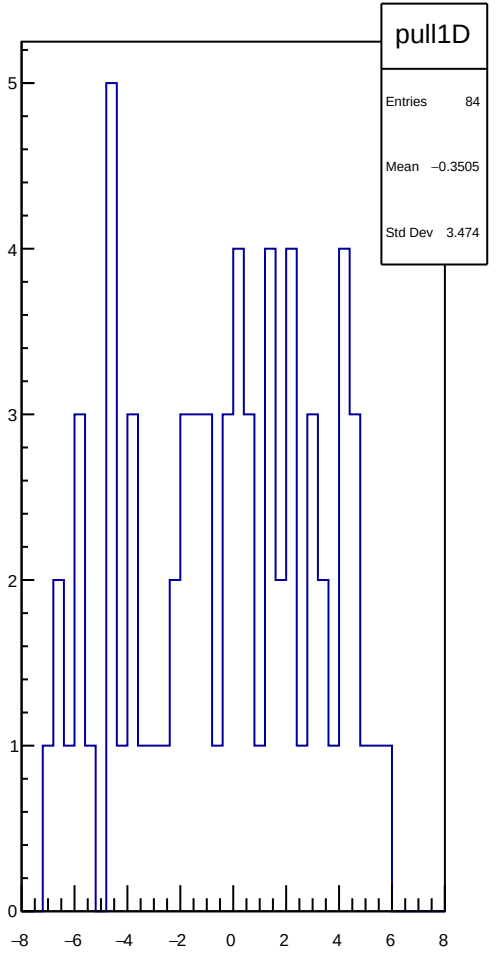

asym_bpm1i02WS_rms vs run
χ² / ndf 7.645e+04 / 83
p0 105.9 ± 0.08493
1200
1000
800
600
400
200

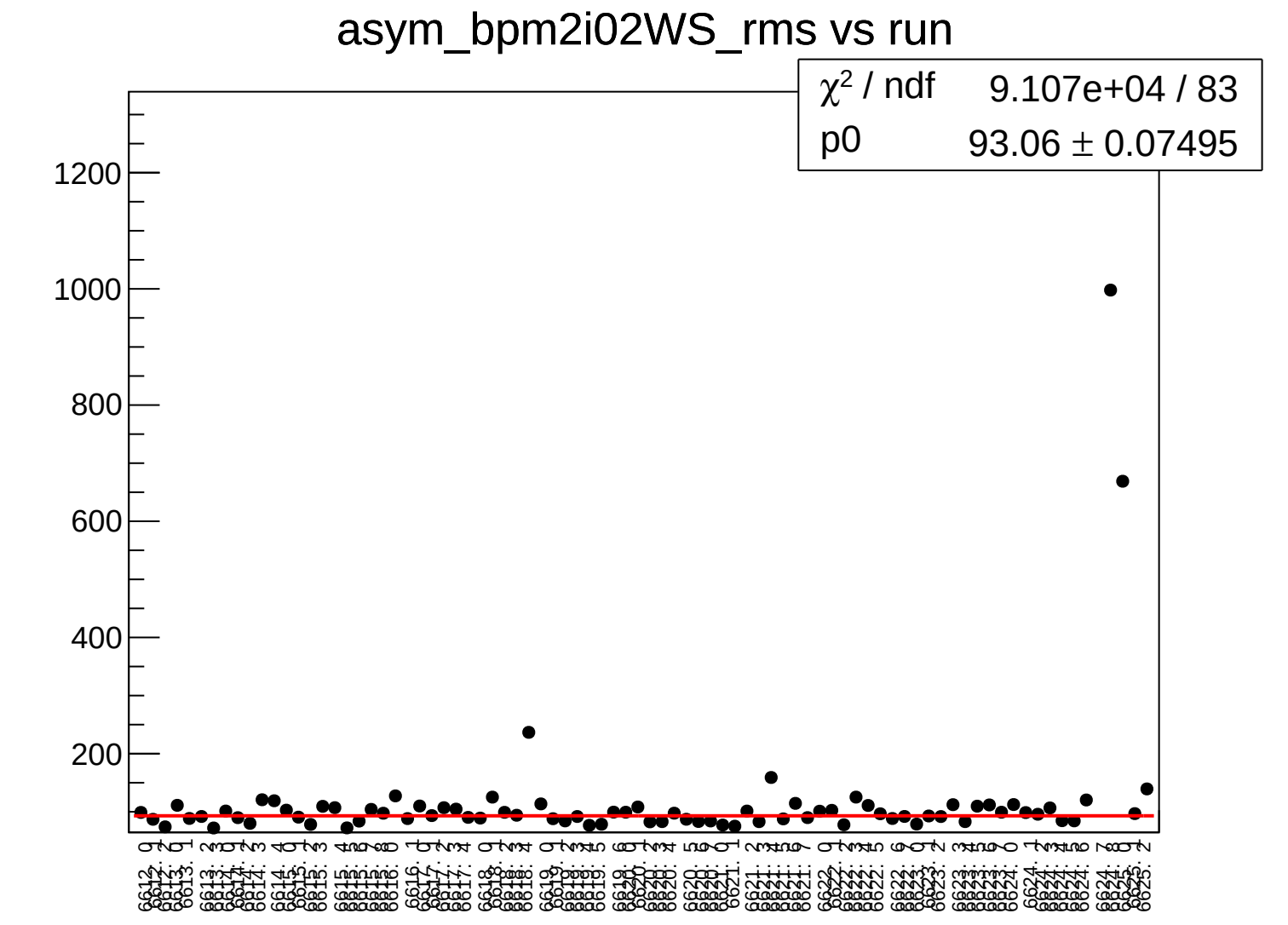

asym_bpm2i01WS_mean vs run
χ² / ndf 2696 / 83
p0 −6107 ± 108.8
pull
Entries 84
Mean 650.7
Std Dev 0

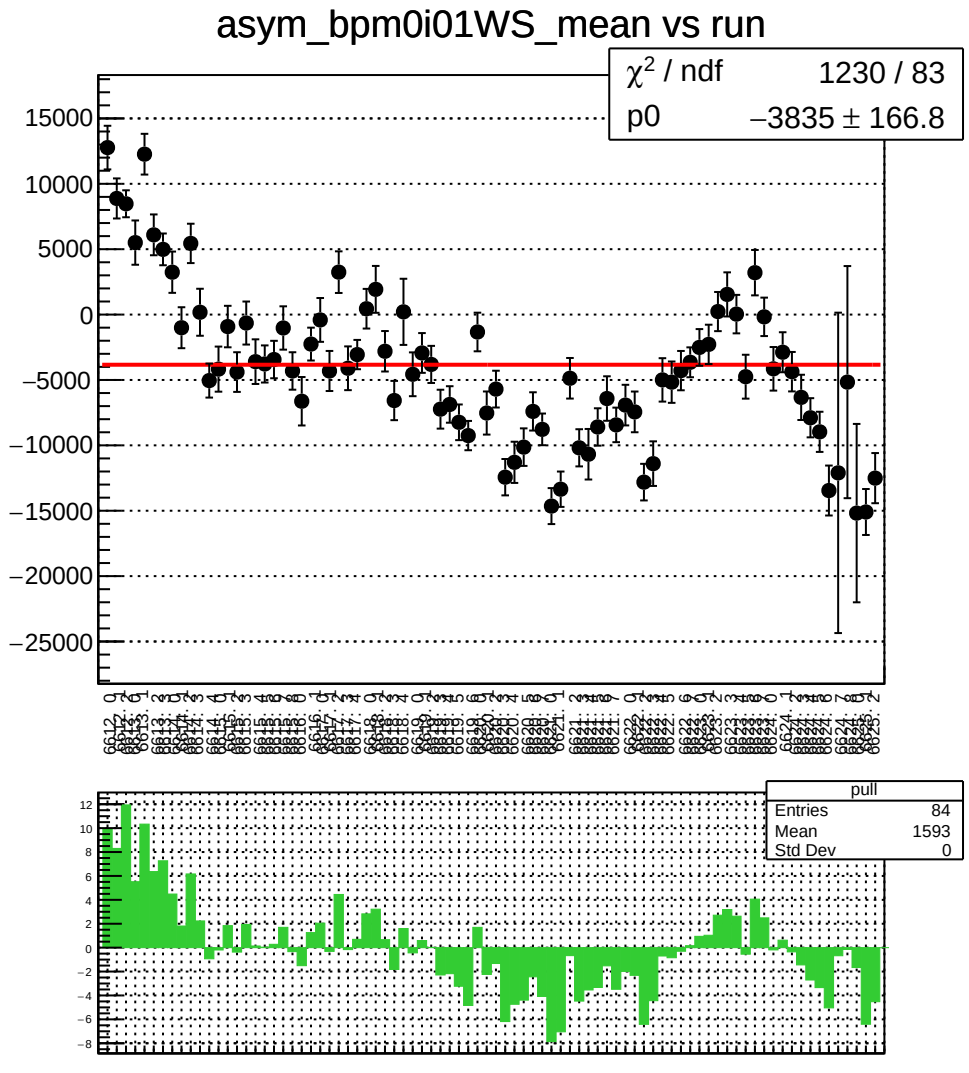

pull1D
Entries 84
Mean −0.4974
Std Dev 3.528

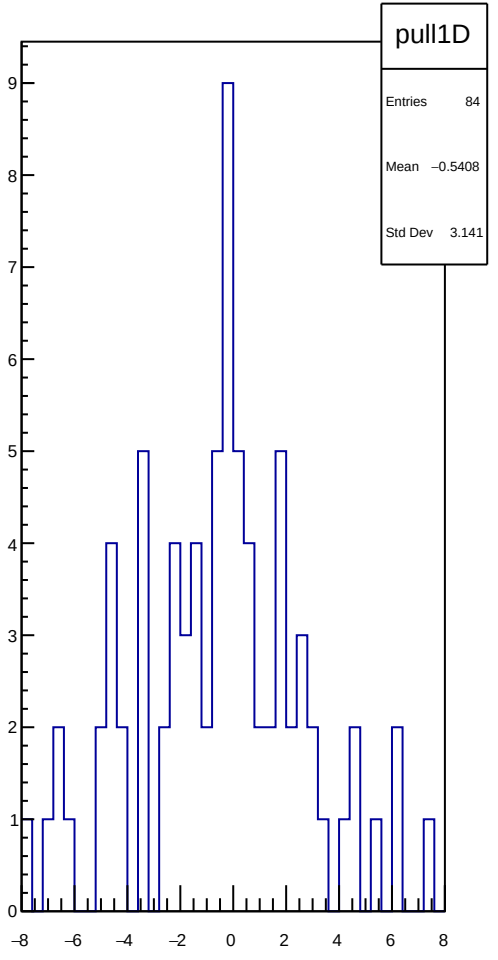

asym_bpm2i01WS_rms vs run
χ² / ndf 8.226e+04 / 83
p0 95.8 ± 0.07694
1200
1000
800
600
400
200

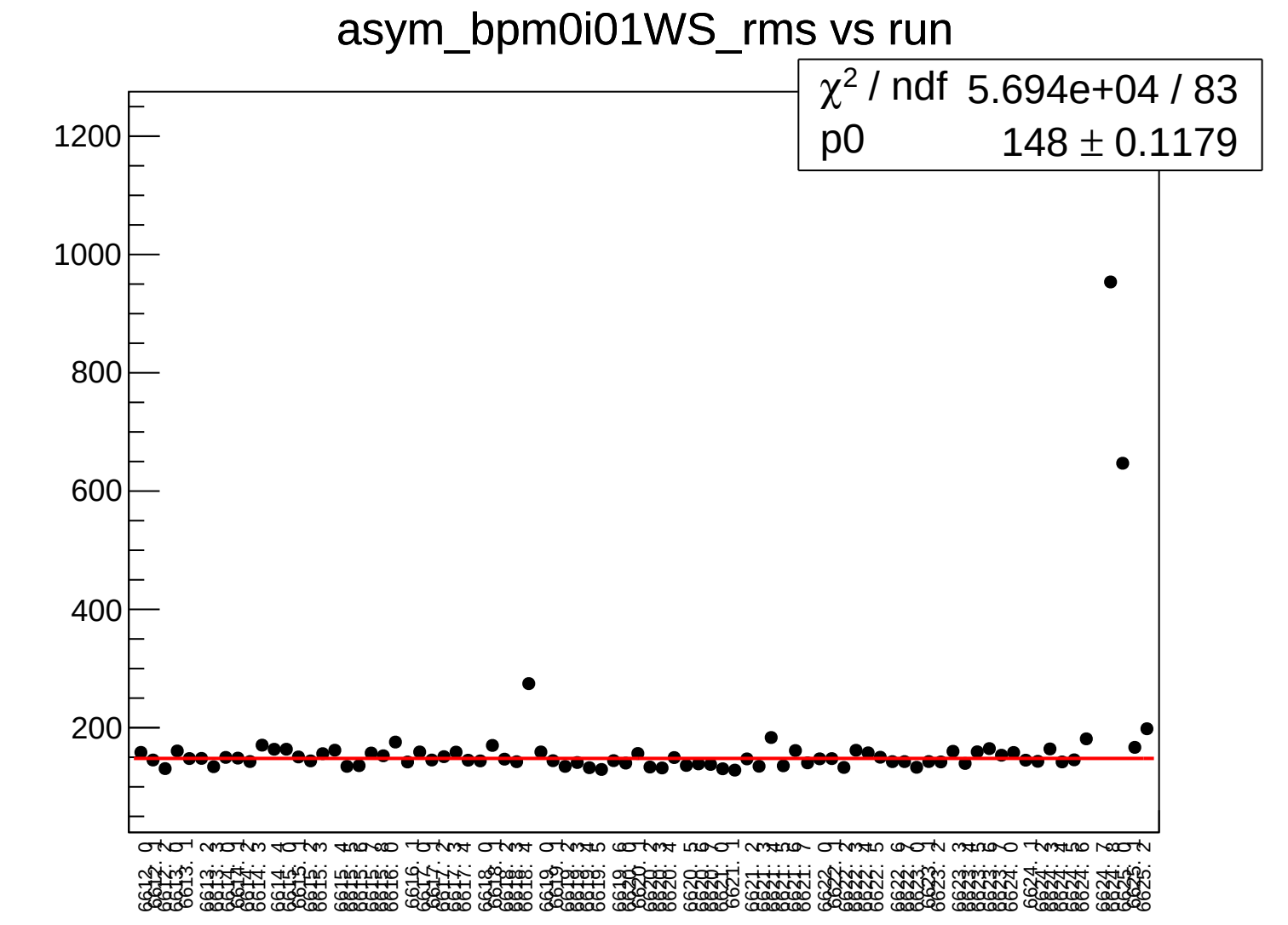

asym_bpm2i02WS_mean vs run
χ² / ndf 2889 / 83
p0 −6134 ± 106
pull
Entries 84
Mean 819.4
Std Dev 0

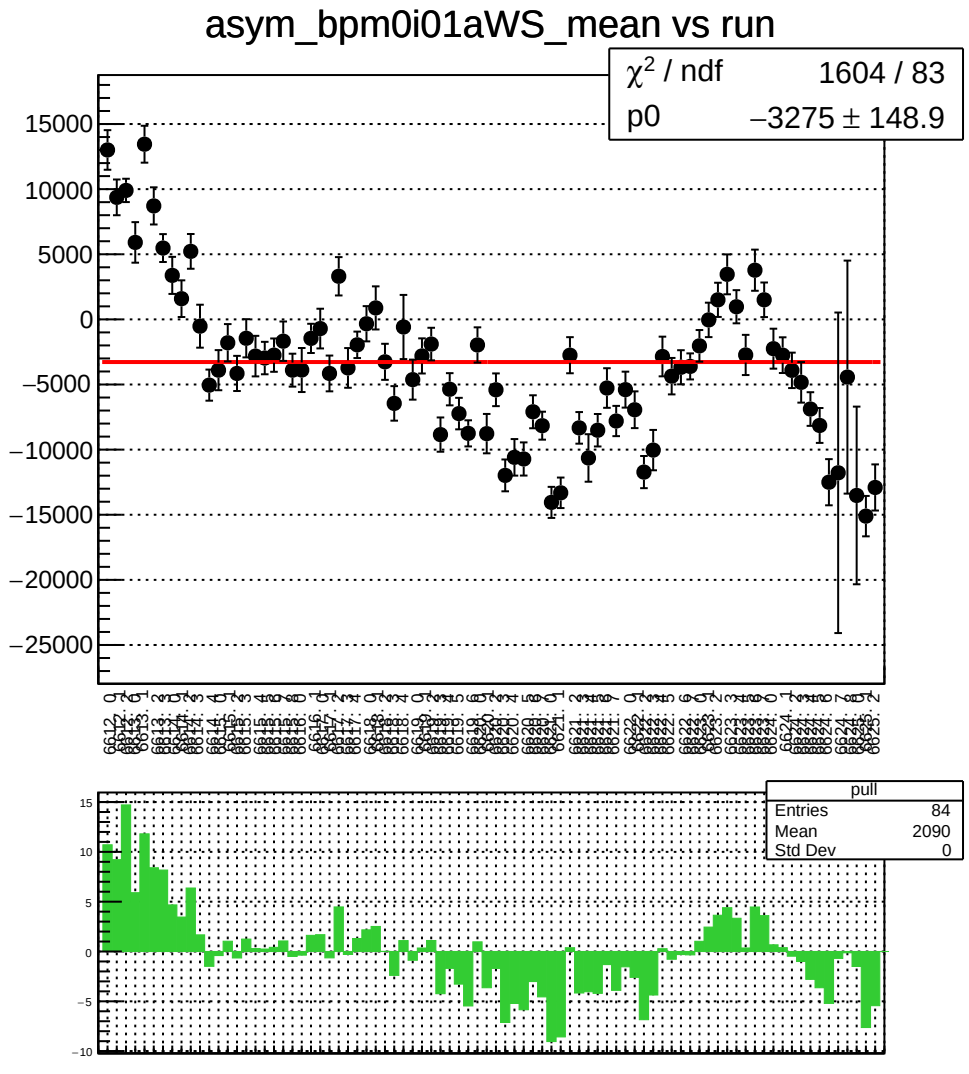

pull1D
Entries 84
Mean −0.3505
Std Dev 3.474

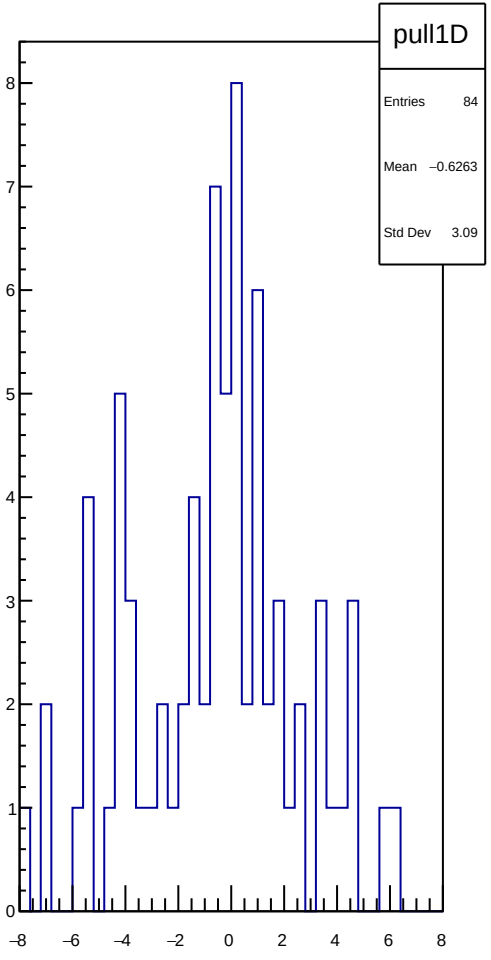

asym_bpm2i02WS_rms vs run
χ^2 / ndf 9.107e+04 / 83
p0 93.06 ± 0.07495
1200
1000
800
600
400
200

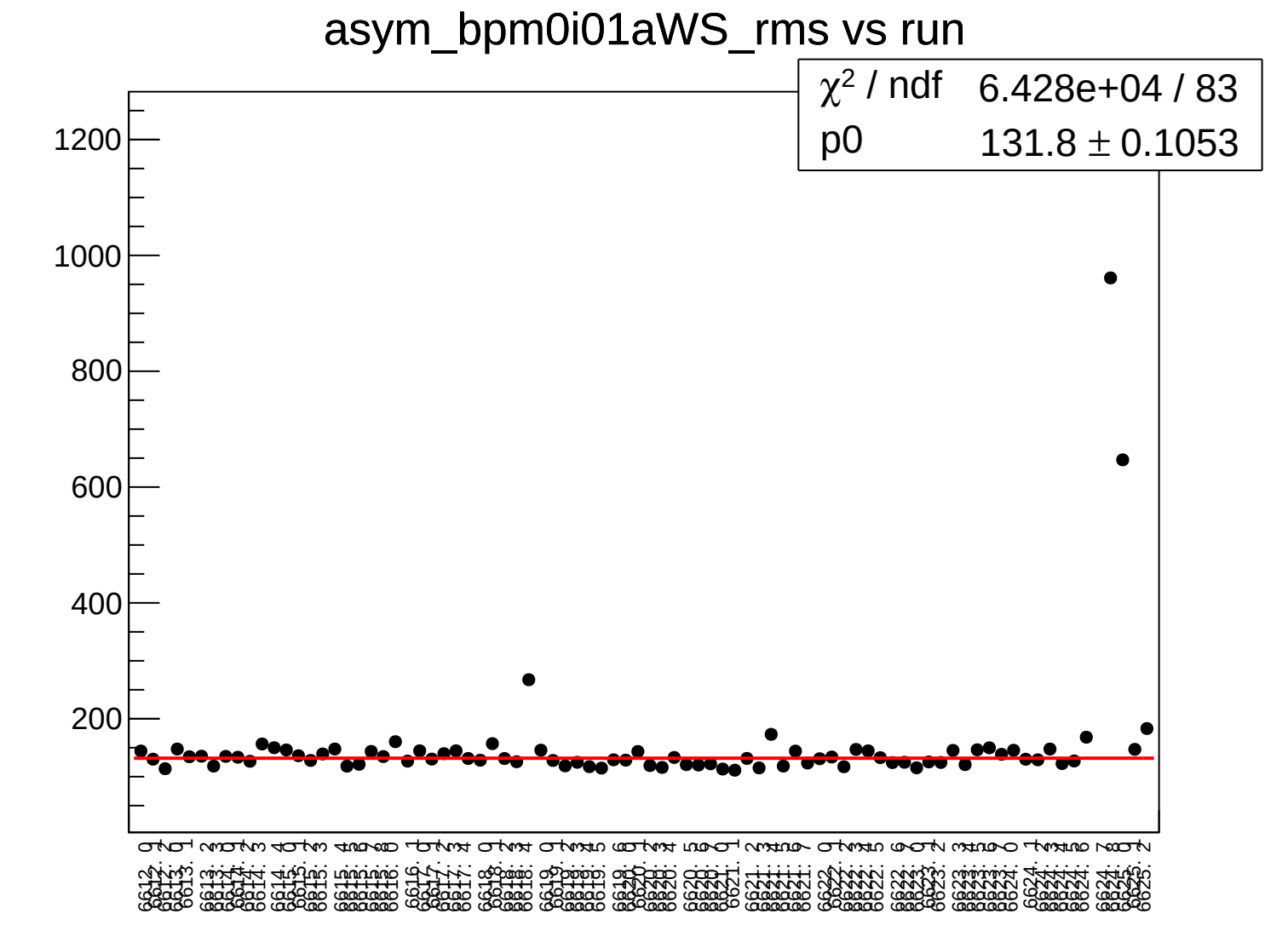

asym_bpm0i01WS_mean vs run
χ² / ndf 1230 / 83
p0 −3835 ± 166.8
pull
Entries 84
Mean 1593
Std Dev 0

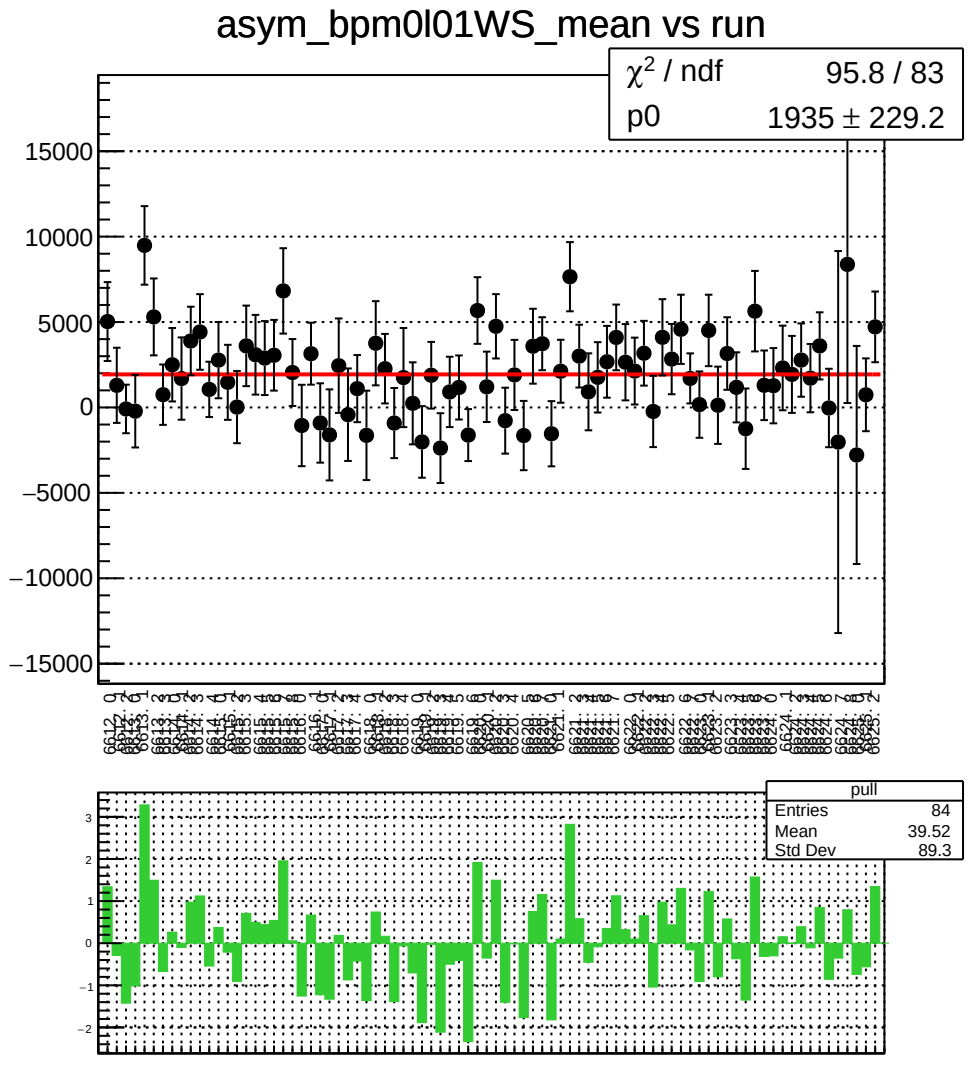

pull1D
Entries 84
Mean −0.5408
Std Dev 3.141

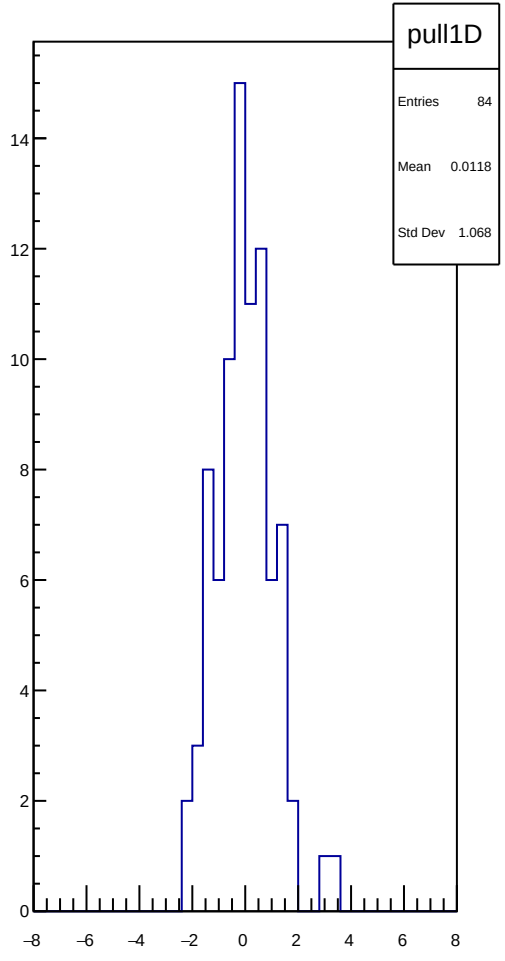

asym_bpm0i01WS_rms vs run
χ^2 / ndf 5.694e+04 / 83
p0 148 ± 0.1179
1200
1000
800
600
400
200

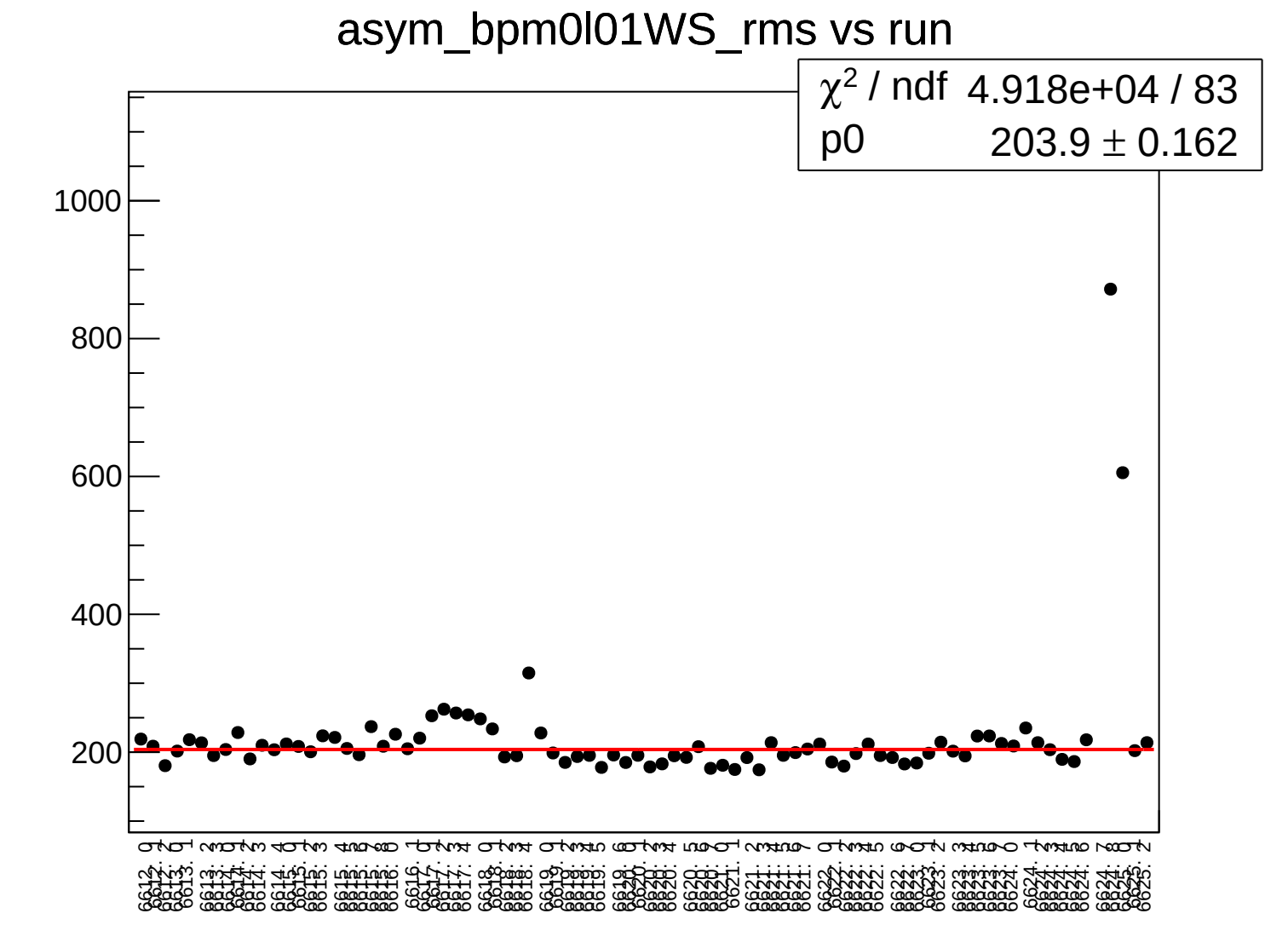

asym_bpm0i01aWS_mean vs run
χ² / ndf 1604 / 83
p0 −3275 ± 148.9
pull
Entries 84
Mean 2090
Std Dev 0

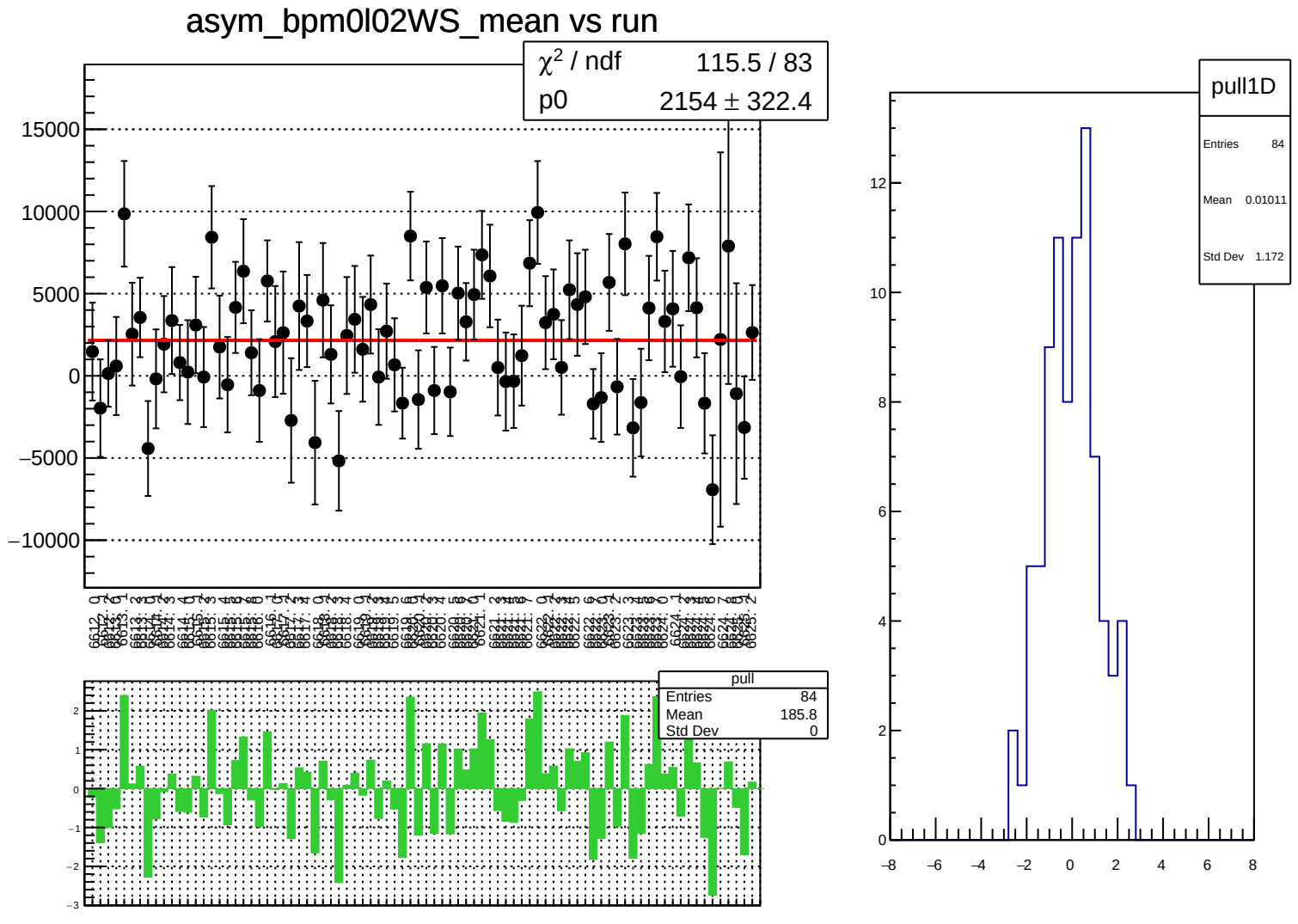

pull1D
Entries 84
Mean −0.6263
Std Dev 3.09

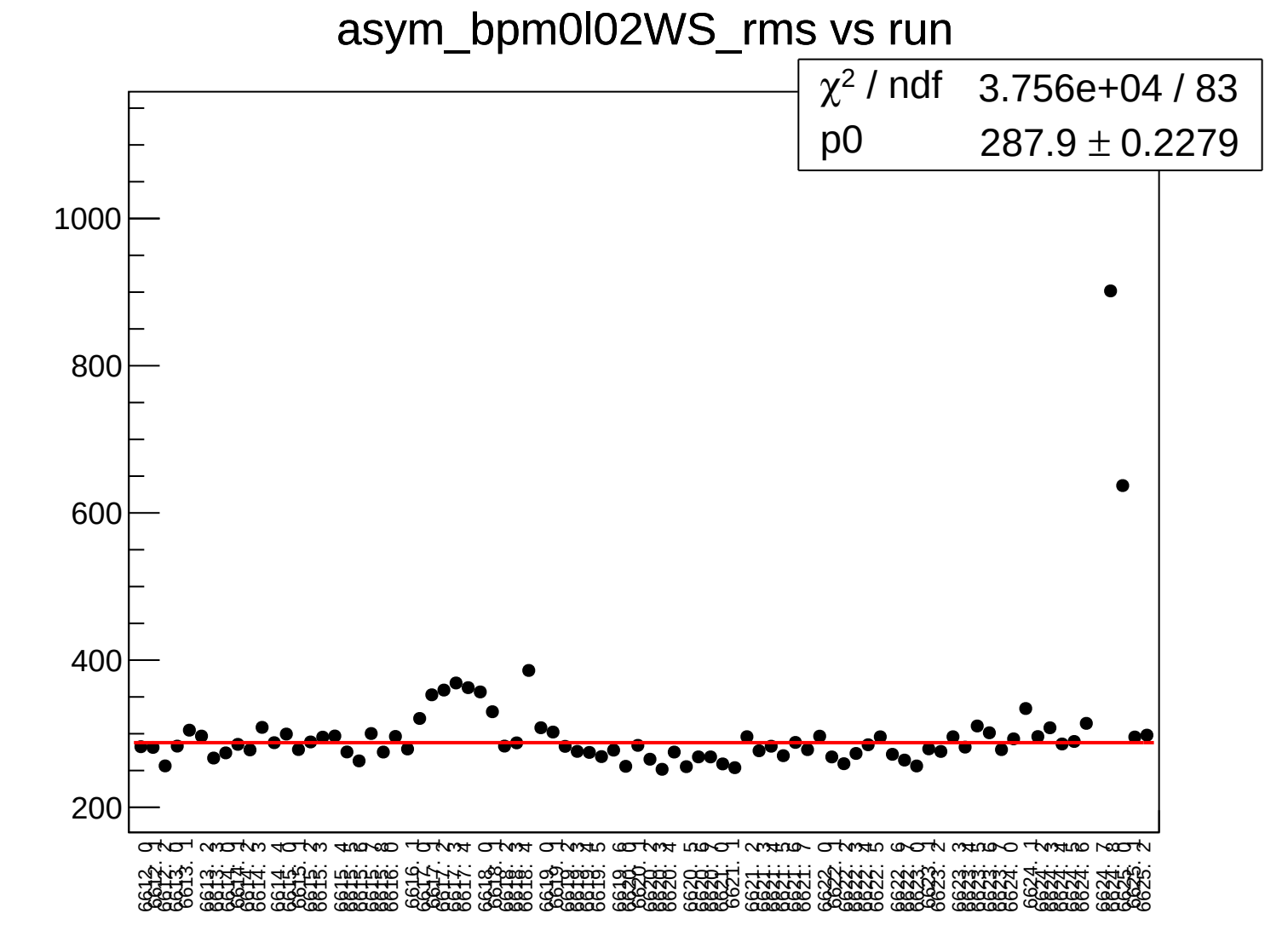

asym_bpm0i01aWS_rms vs run
χ² / ndf 6.428e+04 / 83
p0 131.8 ± 0.1053
1200
1000
800
600
400
200

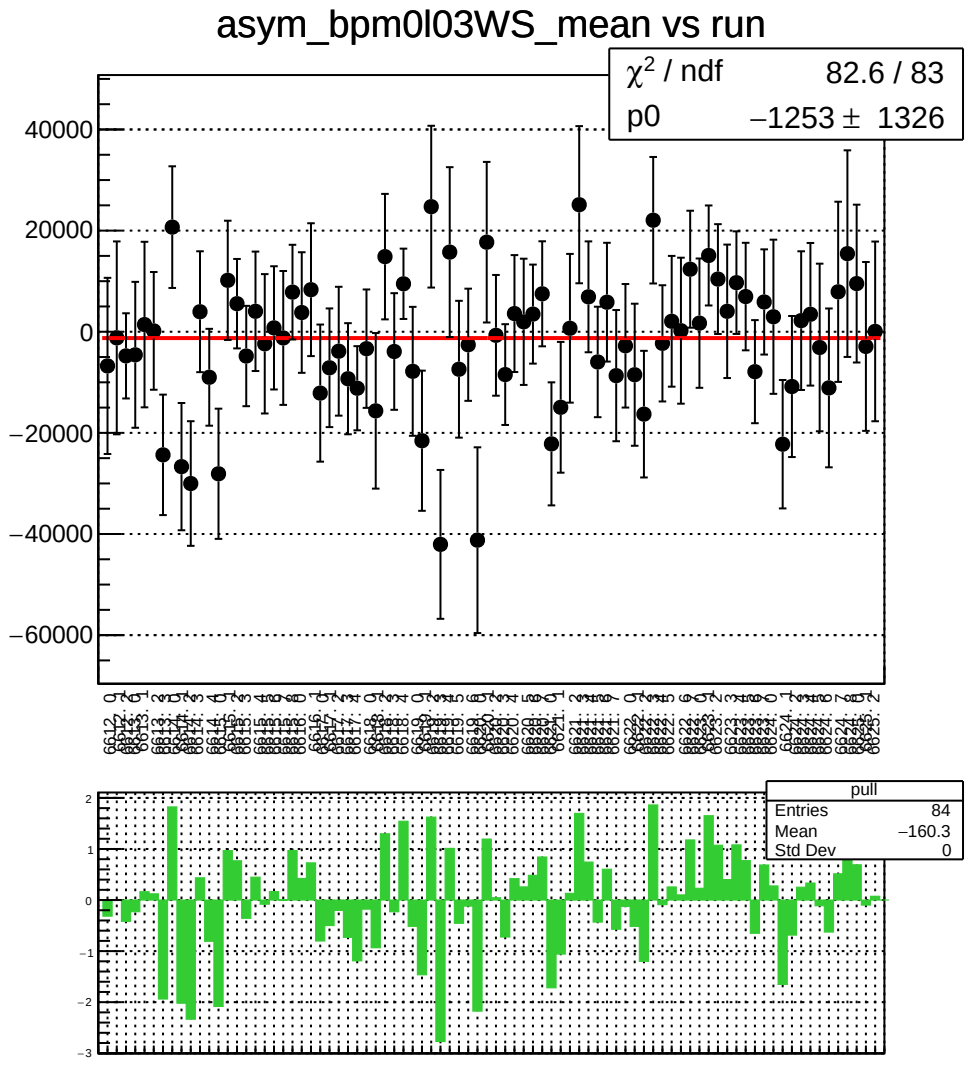

asym_bpm0l01WS_mean vs run
χ² / ndf 95.8 / 83
p0 1935 ± 229.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 39.52
Std Dev 89.3
3
2
1
0
−1
−2

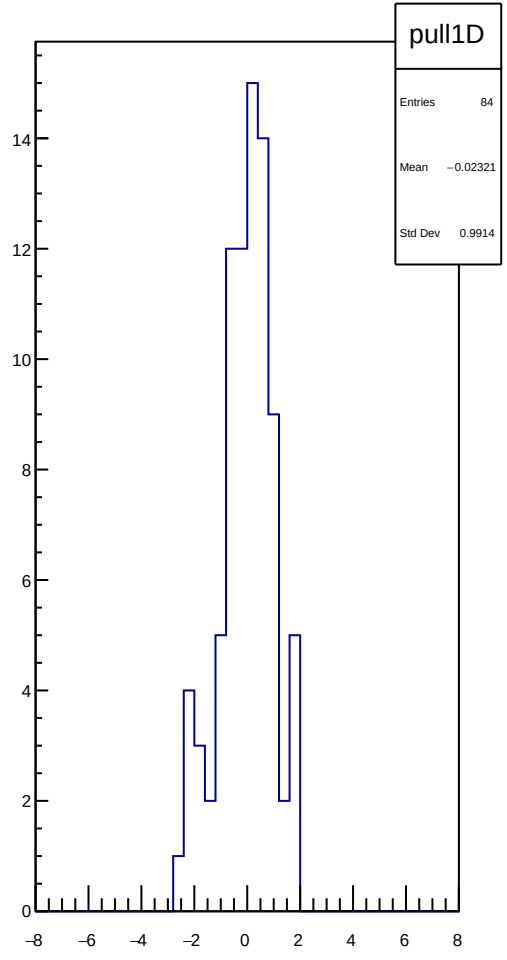

pull1D
Entries 84
Mean 0.0118
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

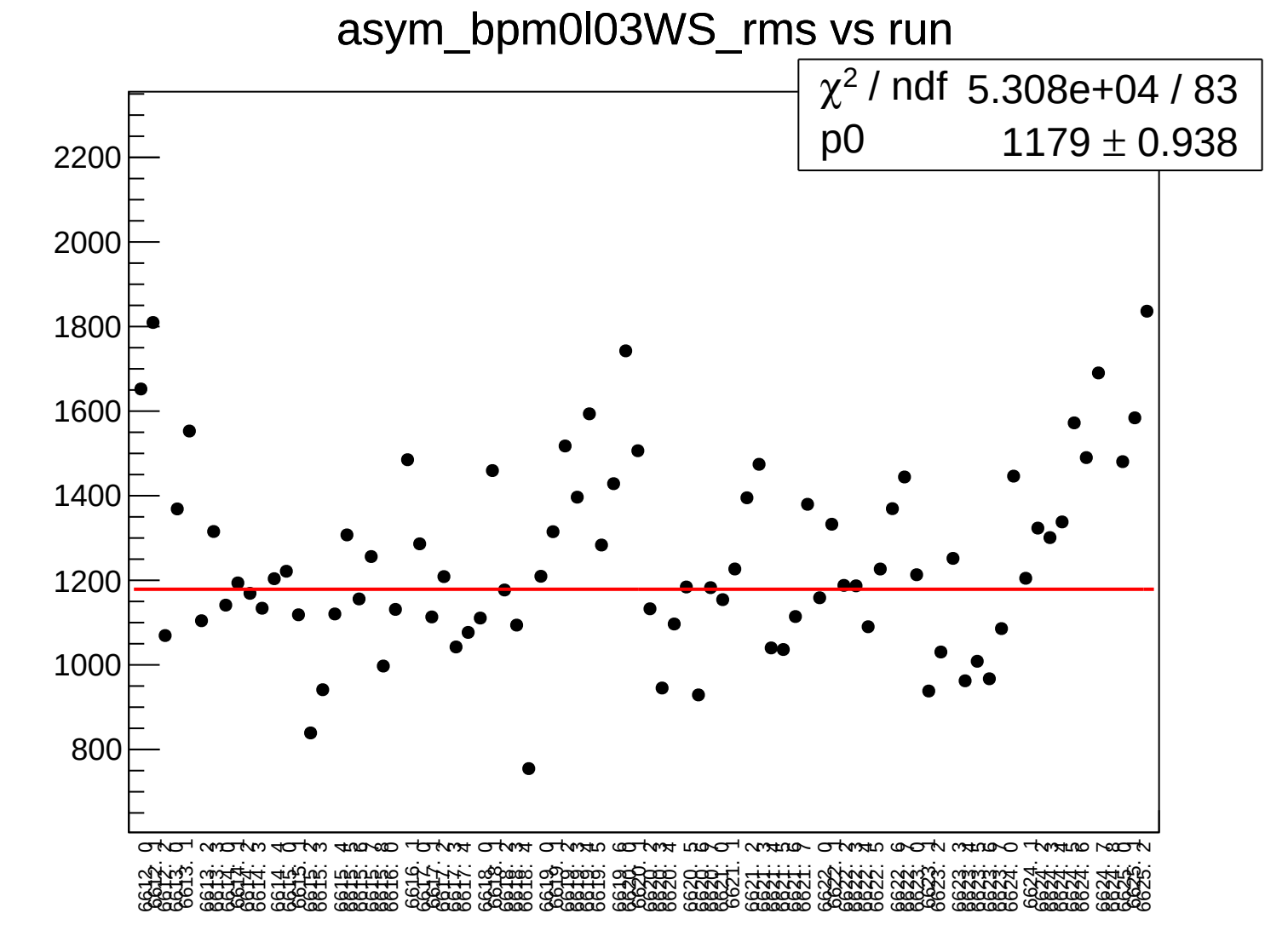

asym_bpm0l01WS_rms vs run
χ² / ndf 4.918e+04 / 83
p0 203.9 ± 0.162
1000
800
600
400
200

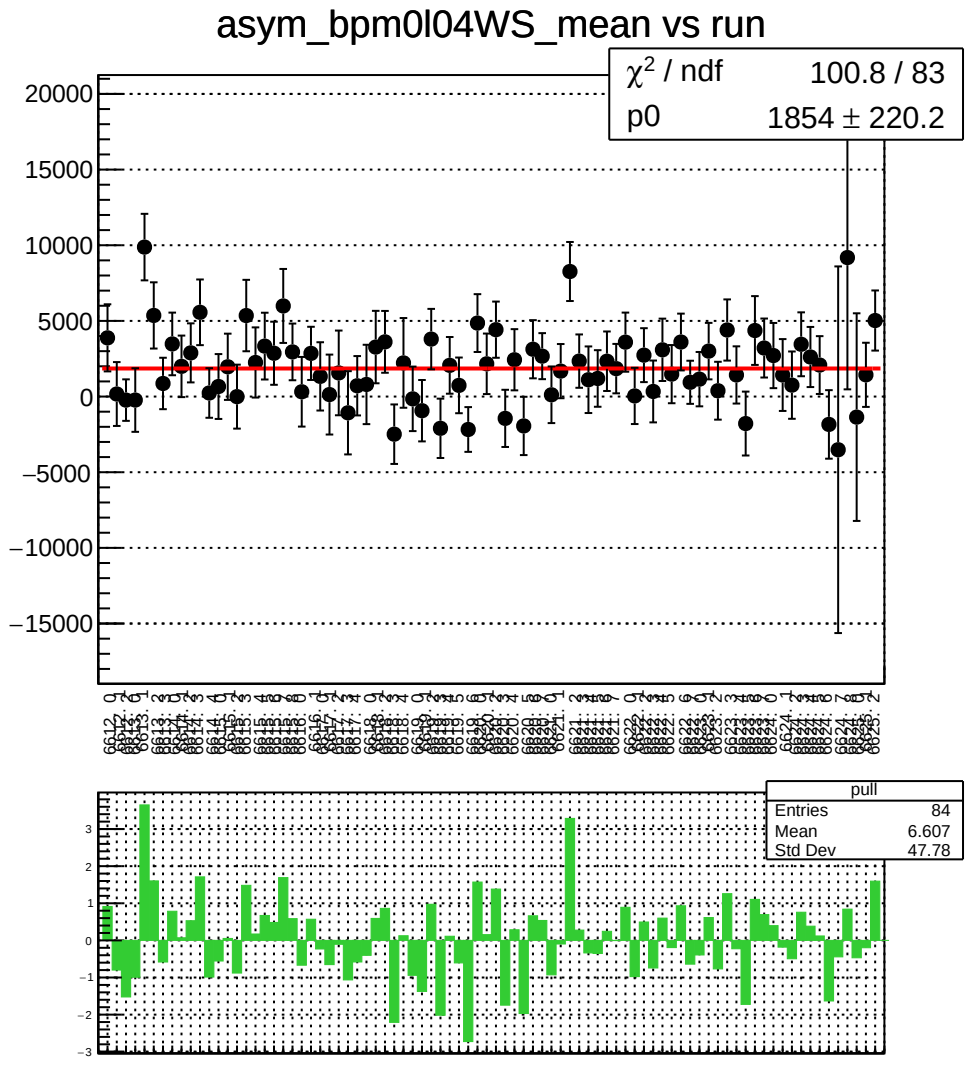

asym_bpm0l02WS_mean vs run
χ² / ndf 115.5 / 83
p0 2154 ± 322.4
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 185.8
Std Dev 0
pull1D
Entries 84
Mean 0.01011
Std Dev 1.172
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

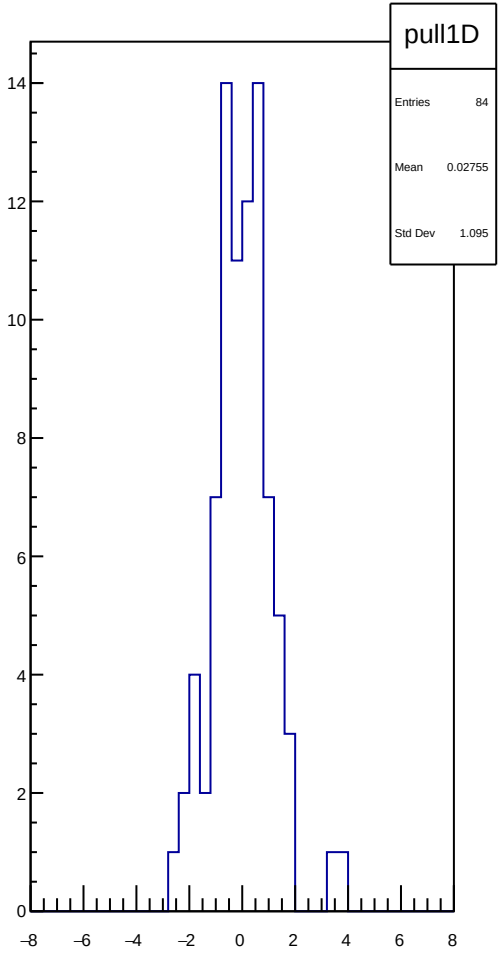

asym_bpm0l02WS_rms vs run
χ² / ndf 3.756e+04 / 83
p0 287.9 ± 0.2279
1000
800
600
400
200

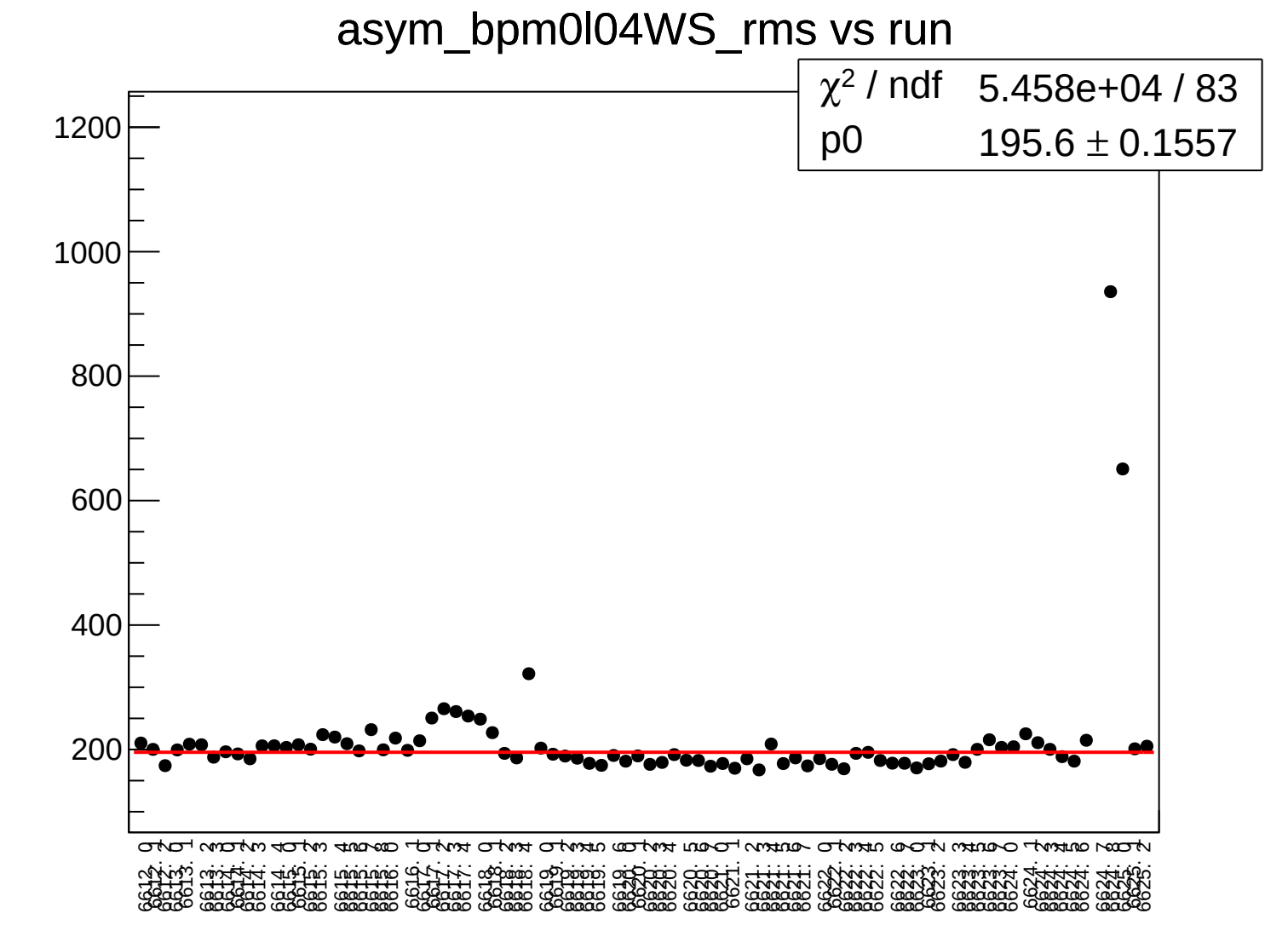

asym_bpm0l03WS_mean vs run
χ² / ndf 82.6 / 83
p0 −1253 ± 1326
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −160.3
Std Dev 0
2
1
0
−1
−2
−3

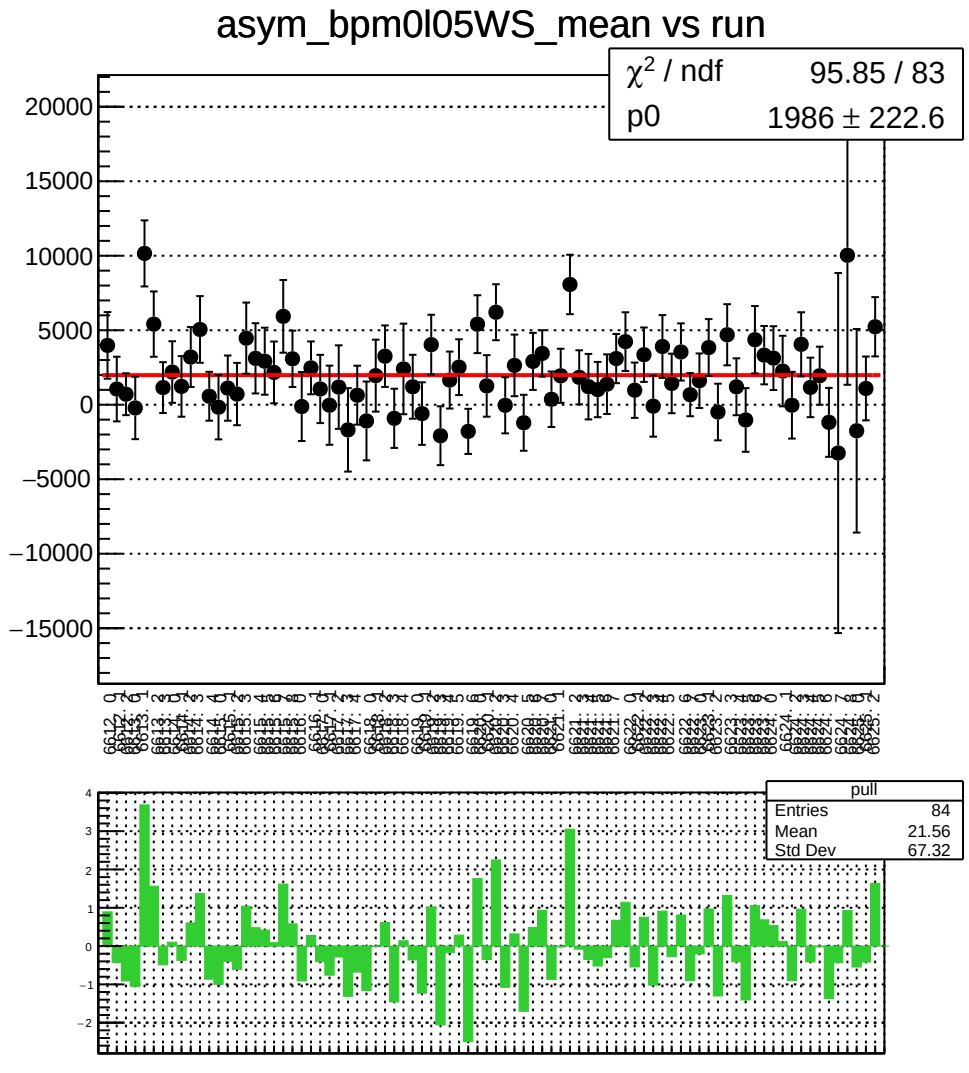

pull1D
Entries 84
Mean −0.02321
Std Dev 0.9914
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

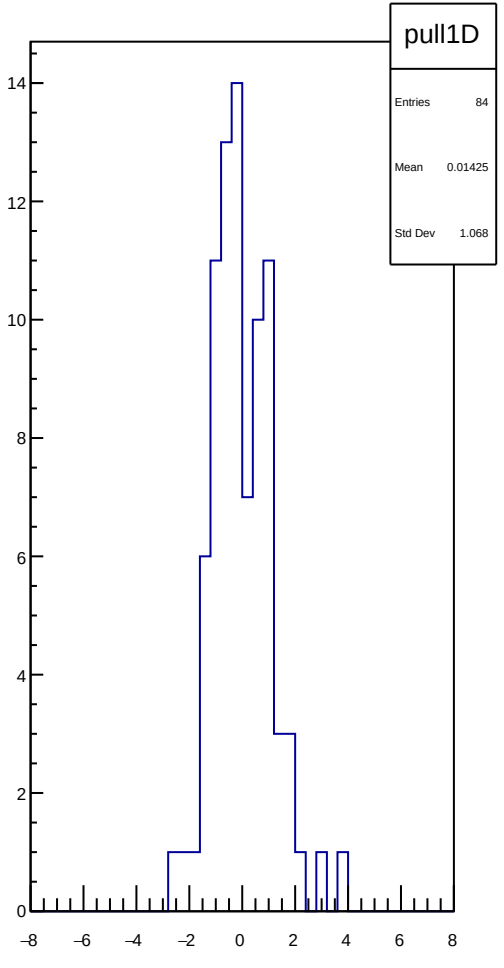

asym_bpm0l03WS_rms vs run
χ² / ndf 5.308e+04 / 83
p0 1179 ± 0.938
2200
2000
1800
1600
1400
1200
1000
800

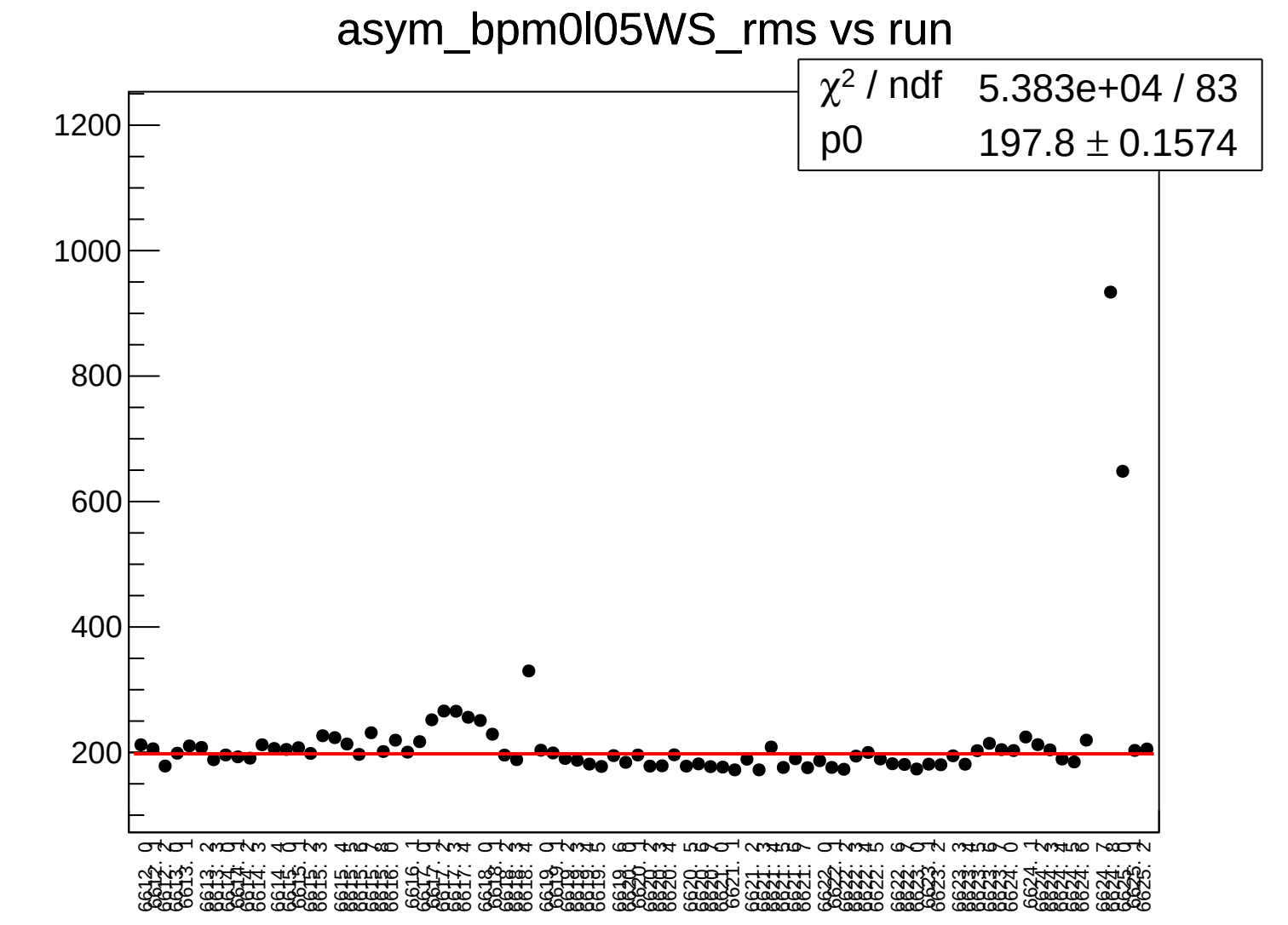

asym_bpm0l04WS_mean vs run
χ² / ndf 100.8 / 83
p0 1854 ± 220.2
pull
Entries 84
Mean 6.607
Std Dev 47.78

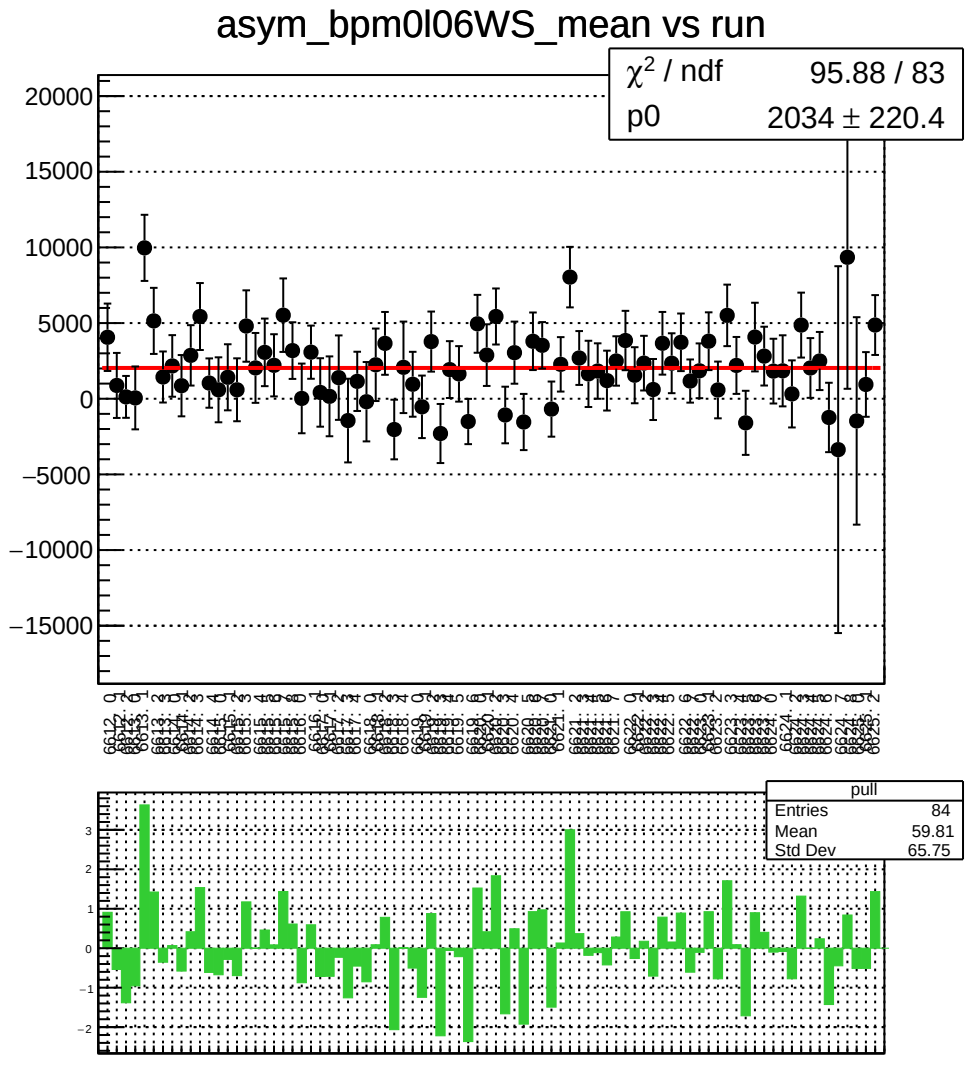

pull1D
Entries 84
Mean 0.02755
Std Dev 1.095

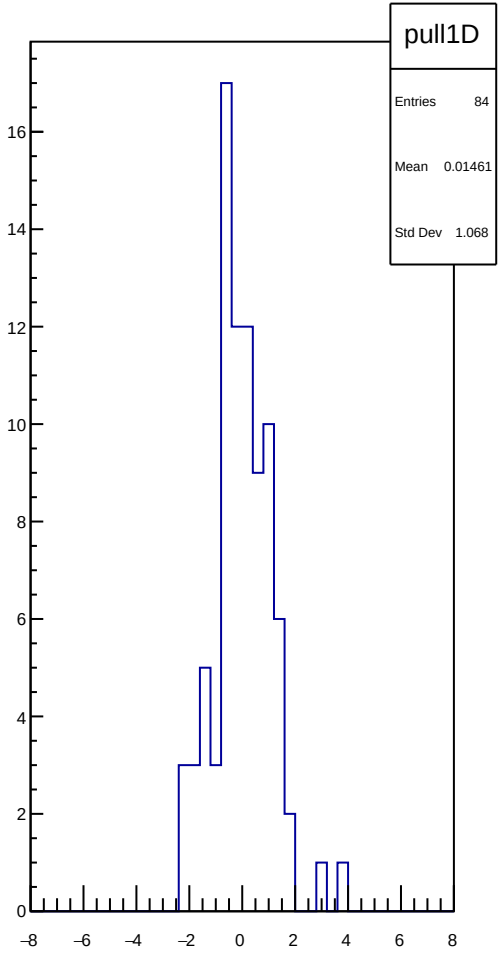

asym_bpm0l04WS_rms vs run
χ² / ndf 5.458e+04 / 83
p0 195.6 ± 0.1557
1200
1000
800
600
400
200

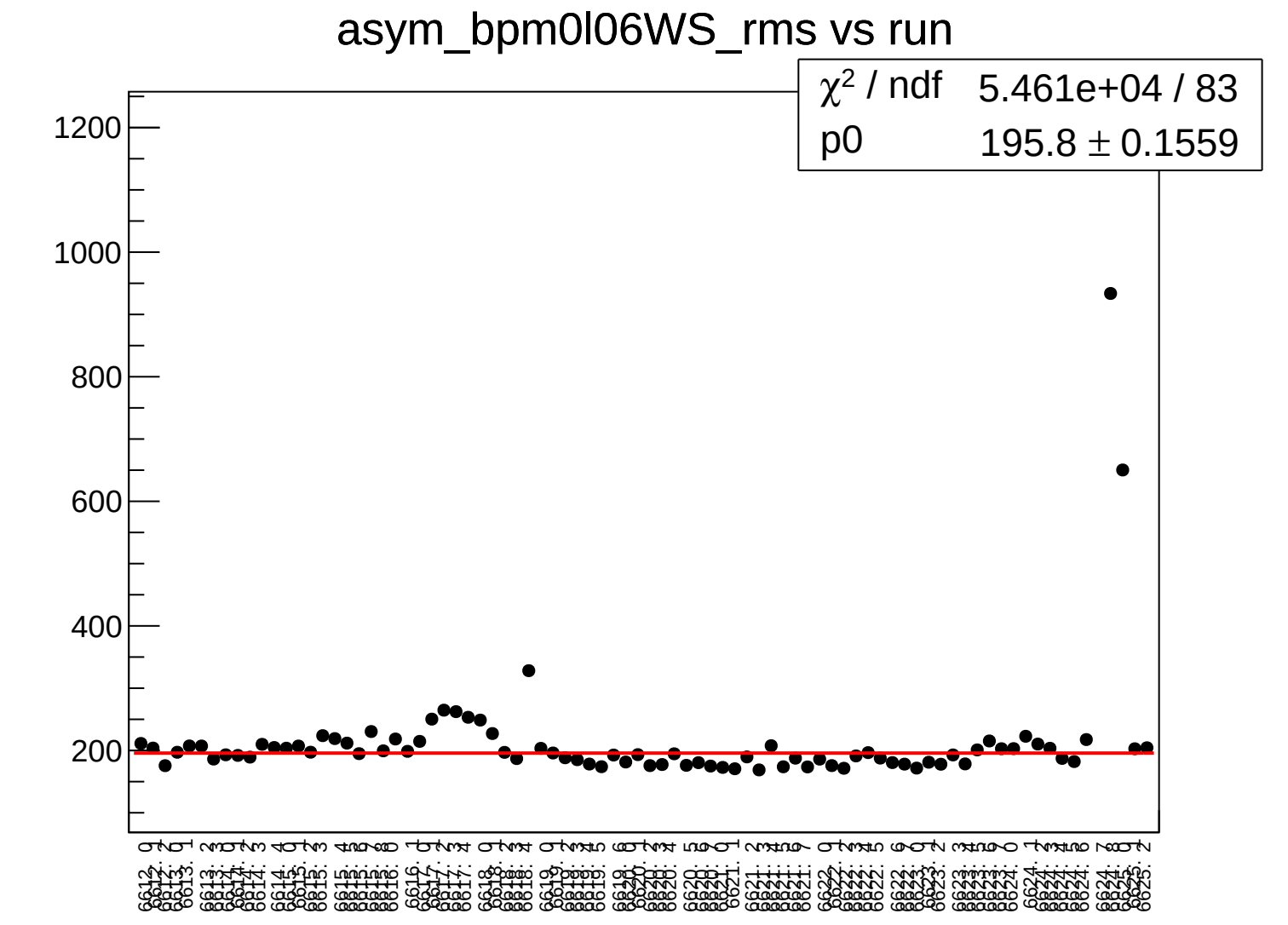

asym_bpm0l05WS_mean vs run
χ² / ndf 95.85 / 83
p0 1986 ± 222.6
pull
Entries 84
Mean 21.56
Std Dev 67.32

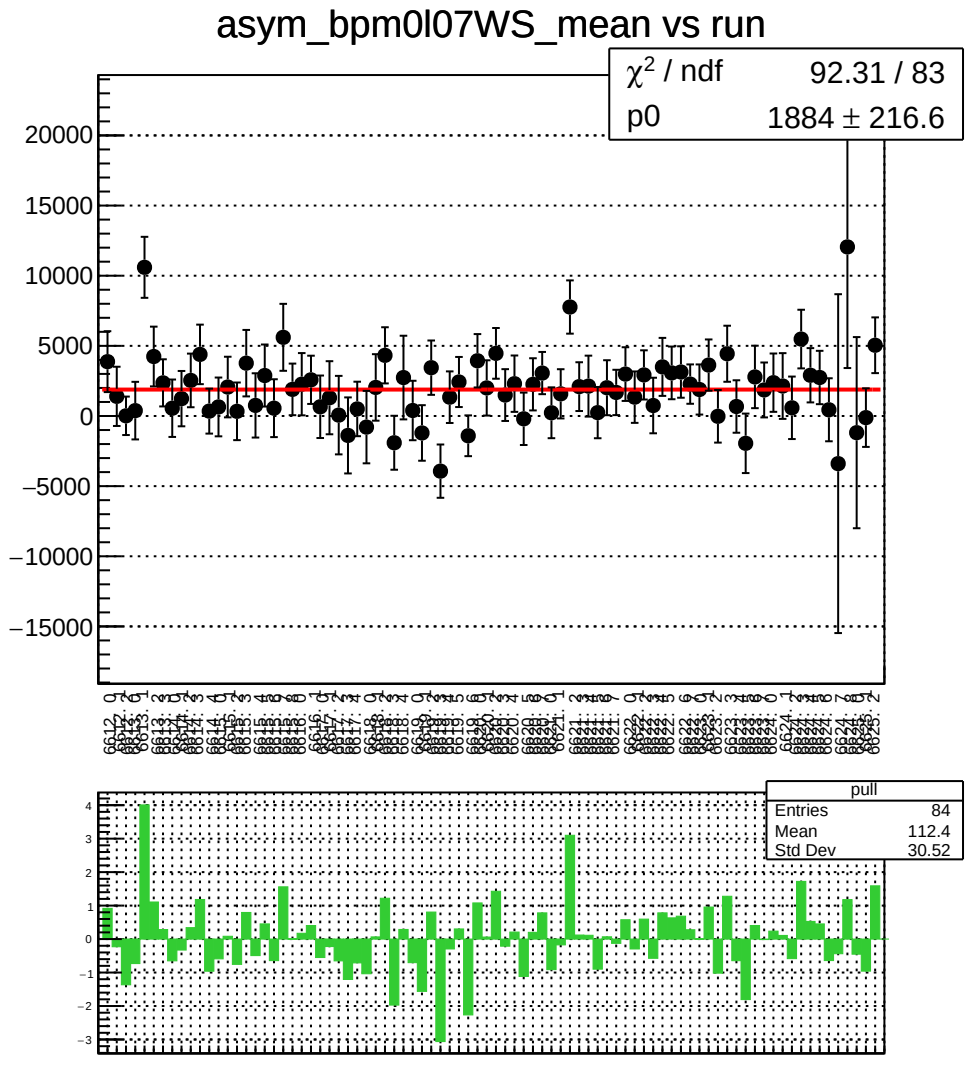

pull1D
Entries 84
Mean 0.01425
Std Dev 1.068

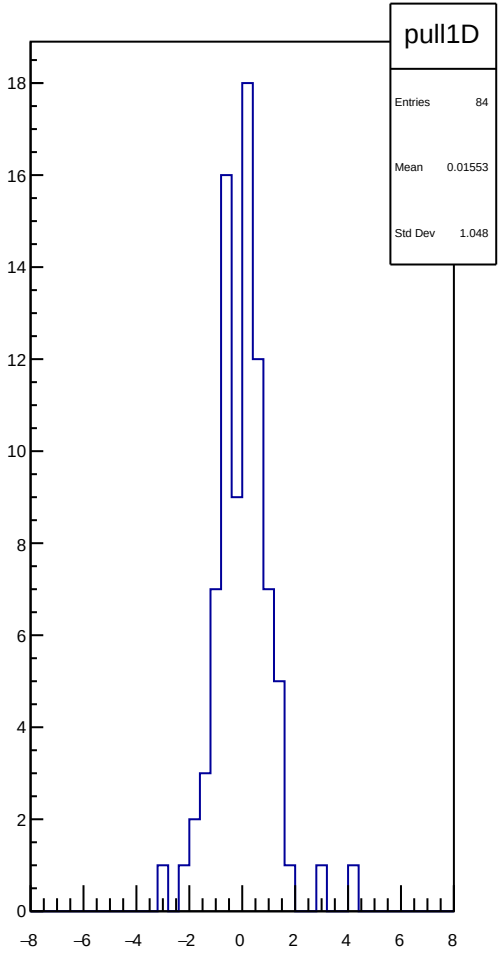

asym_bpm0l05WS_rms vs run
χ² / ndf 5.383e+04 / 83
p0 197.8 ± 0.1574
1200
1000
800
600
400
200

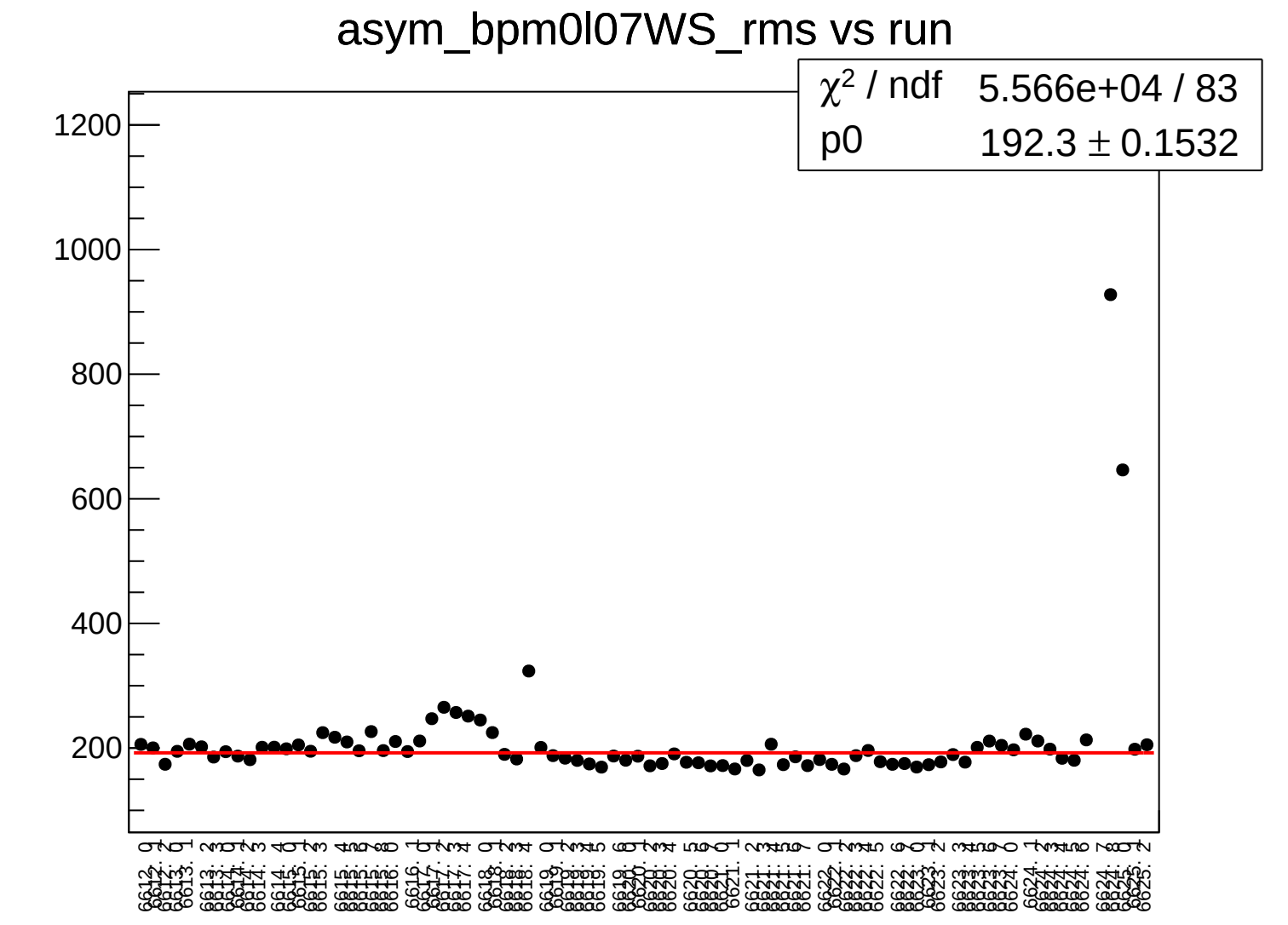

asym_bpm0l06WS_mean vs run
χ² / ndf 95.88 / 83
p0 2034 ± 220.4
pull
Entries 84
Mean 59.81
Std Dev 65.75

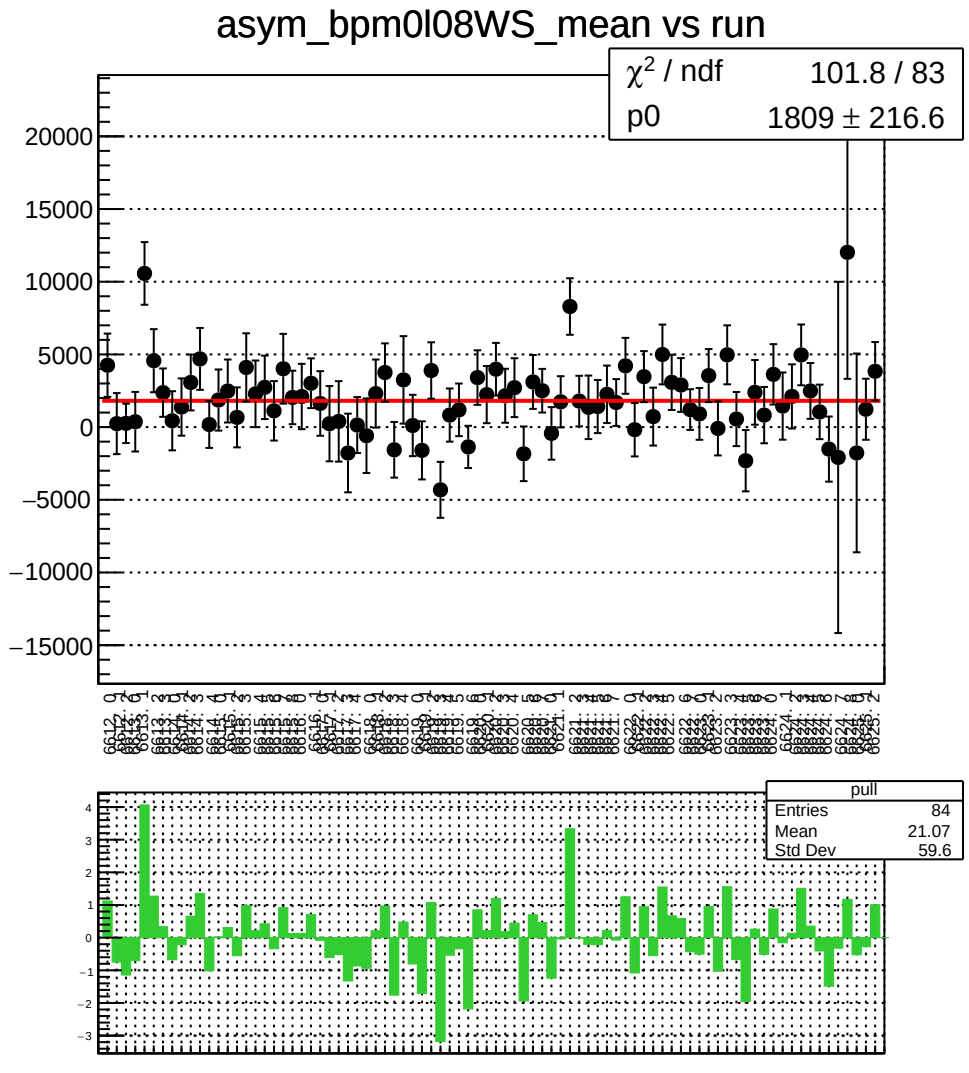

pull1D
Entries 84
Mean 0.01461
Std Dev 1.068

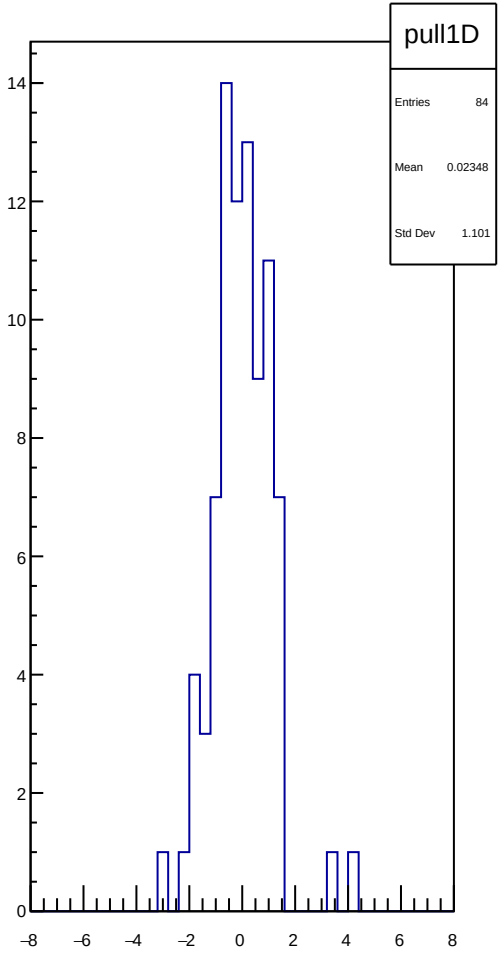

asym_bpm0l06WS_rms vs run
χ^2 / ndf 5.461e+04 / 83
p0 195.8 ± 0.1559
1200
1000
800
600
400
200

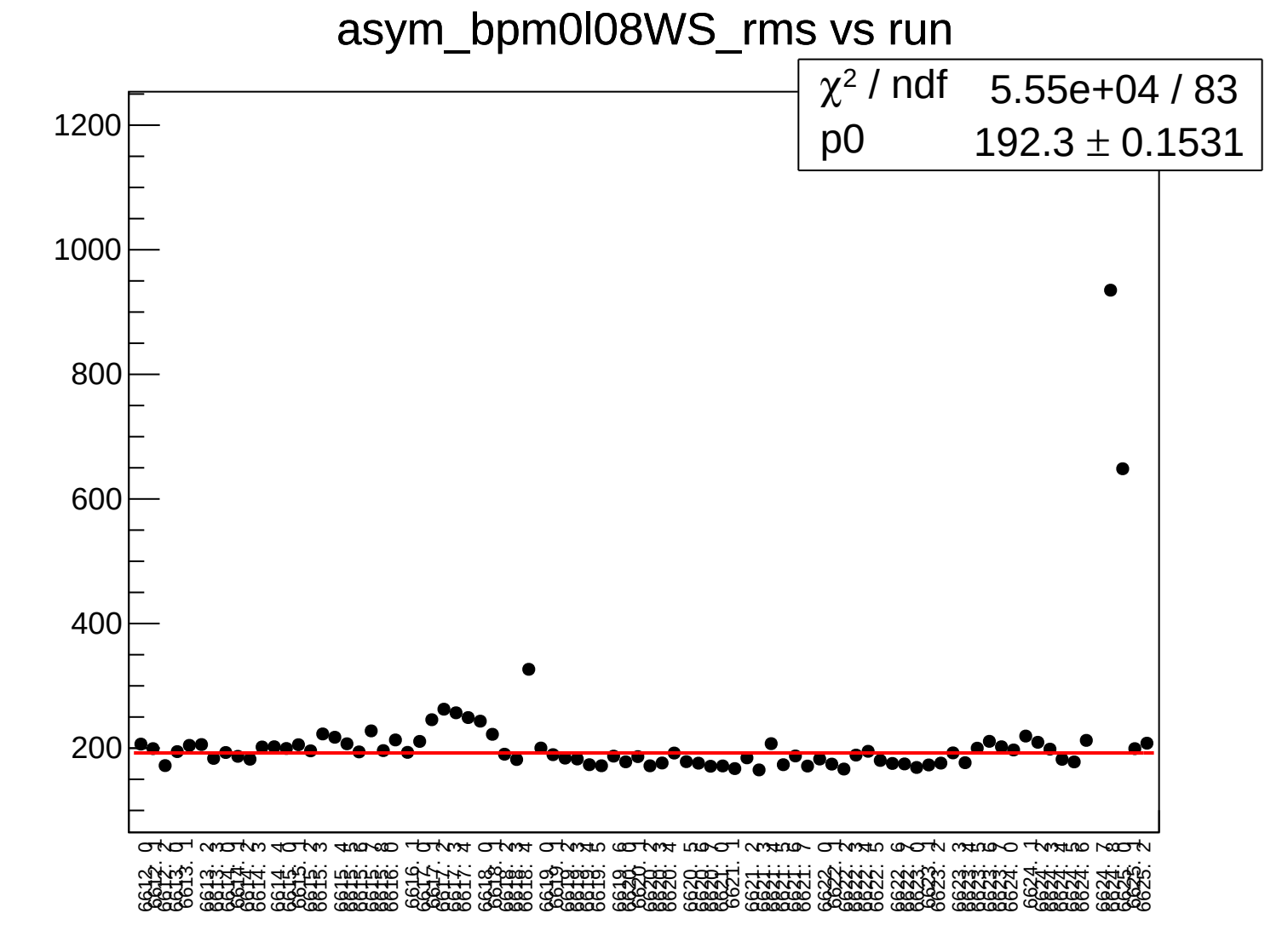

asym_bpm0l07WS_mean vs run
χ² / ndf 92.31 / 83
p0 1884 ± 216.6
pull
Entries 84
Mean 112.4
Std Dev 30.52

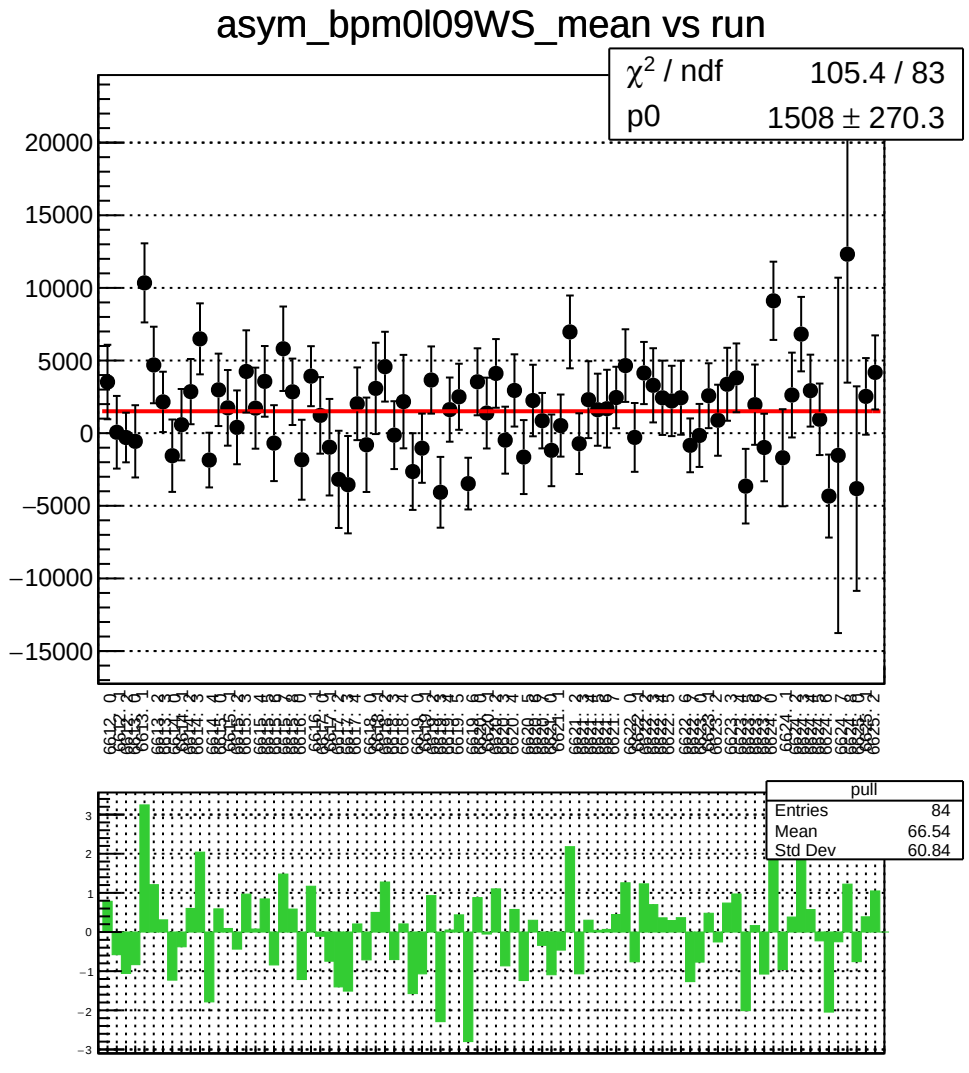

pull1D
Entries 84
Mean 0.01553
Std Dev 1.048

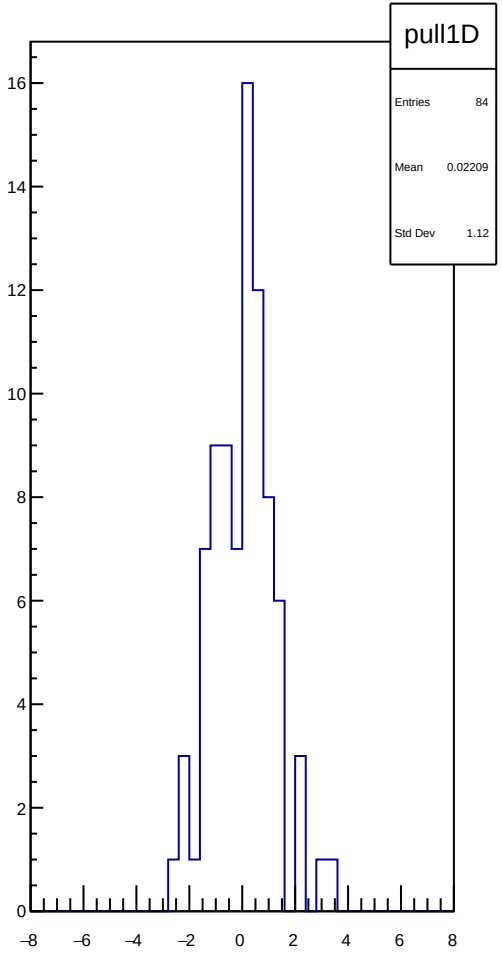

asym_bpm0l07WS_rms vs run
χ² / ndf 5.566e+04 / 83
p0 192.3 ± 0.1532
1200
1000
800
600
400
200

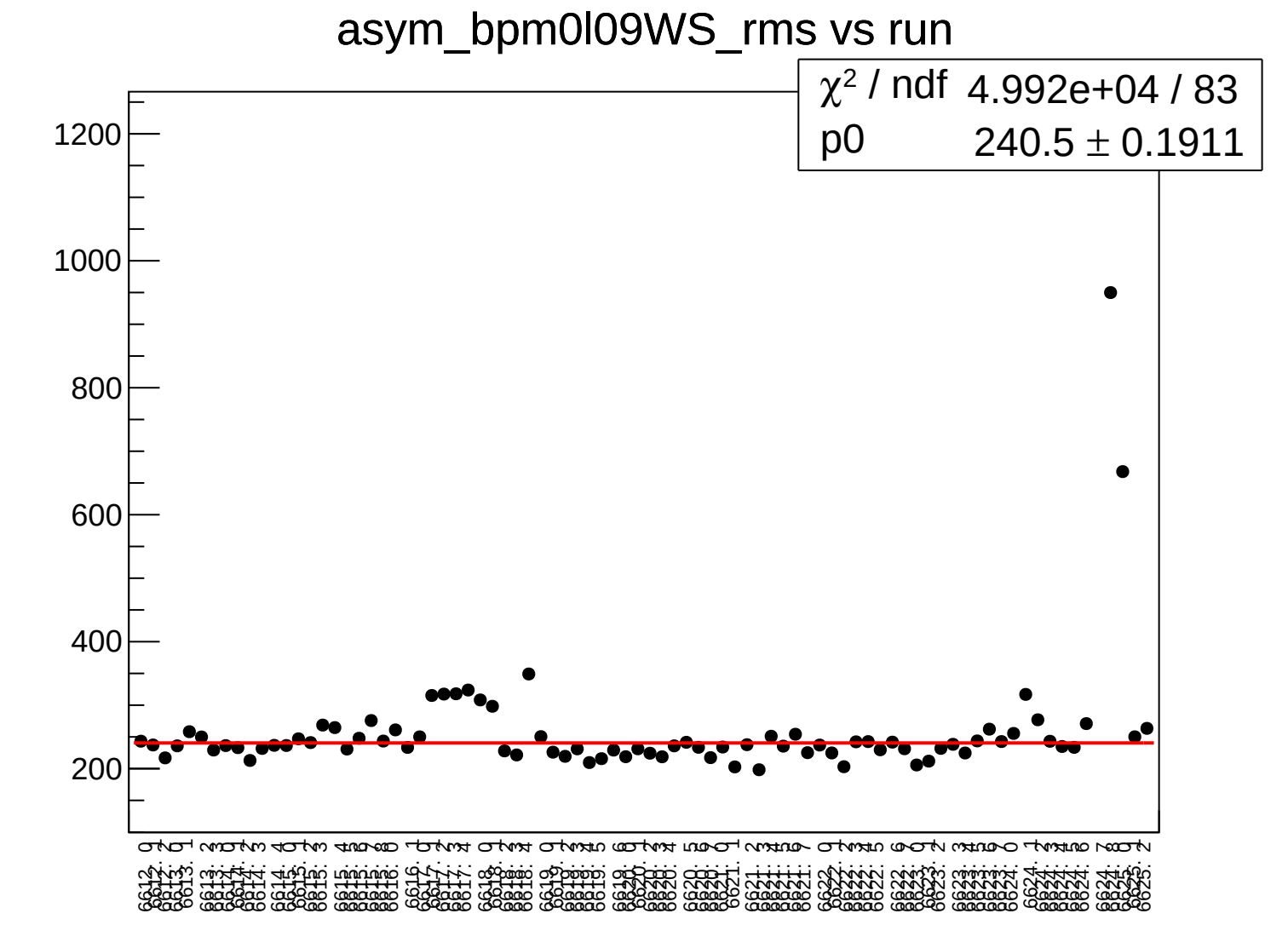

asym_bpm0l08WS_mean vs run
χ² / ndf 101.8 / 83
p0 1809 ± 216.6
pull
Entries 84
Mean 21.07
Std Dev 59.6

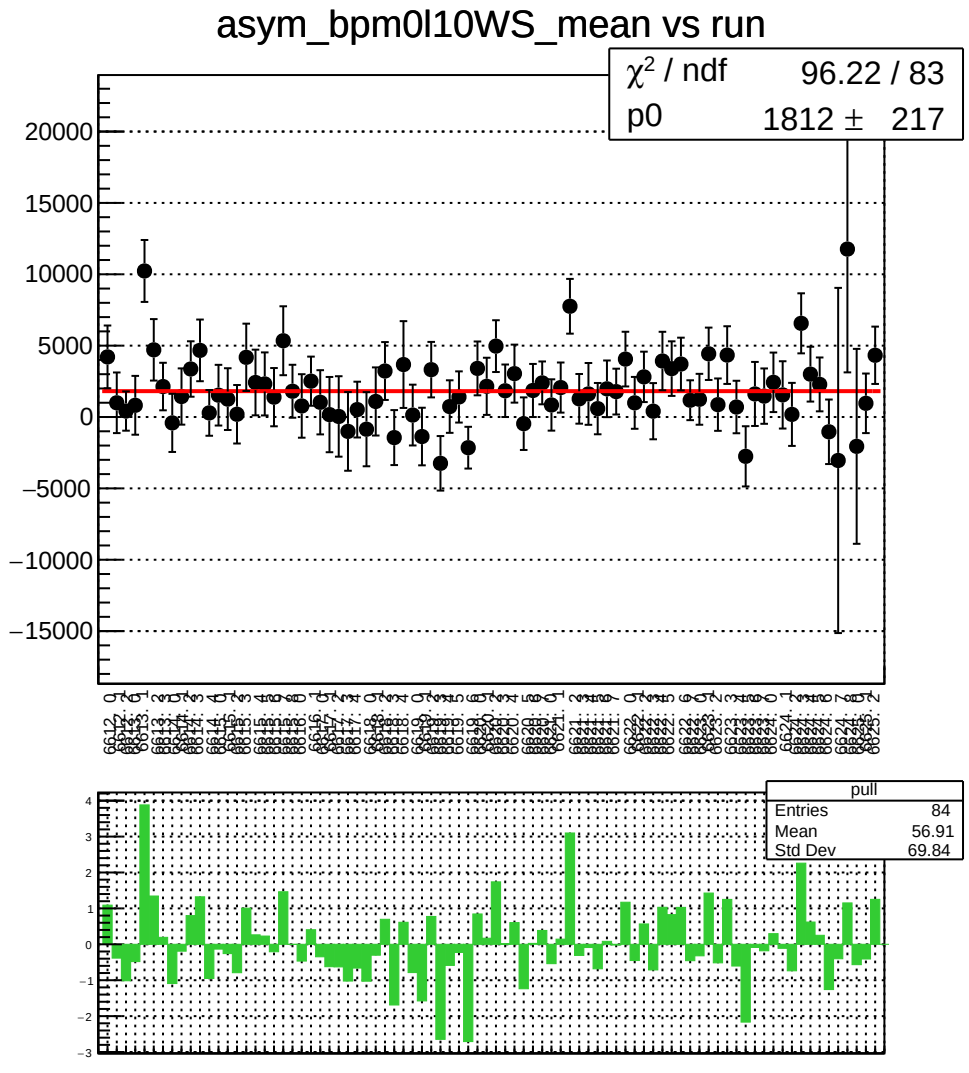

pull1D
Entries 84
Mean 0.02348
Std Dev 1.101

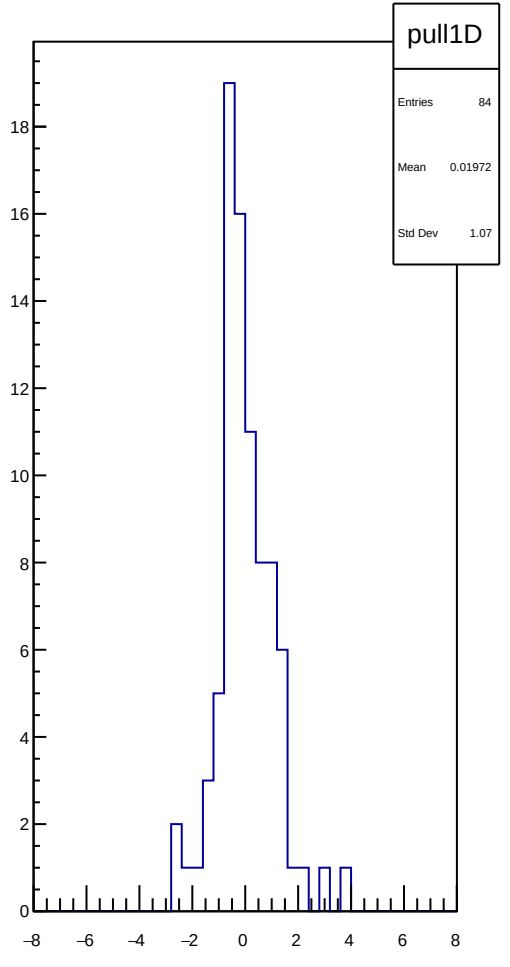

asym_bpm0l08WS_rms vs run
χ² / ndf 5.55e+04 / 83
p0 192.3 ± 0.1531
1200
1000
800
600
400
200

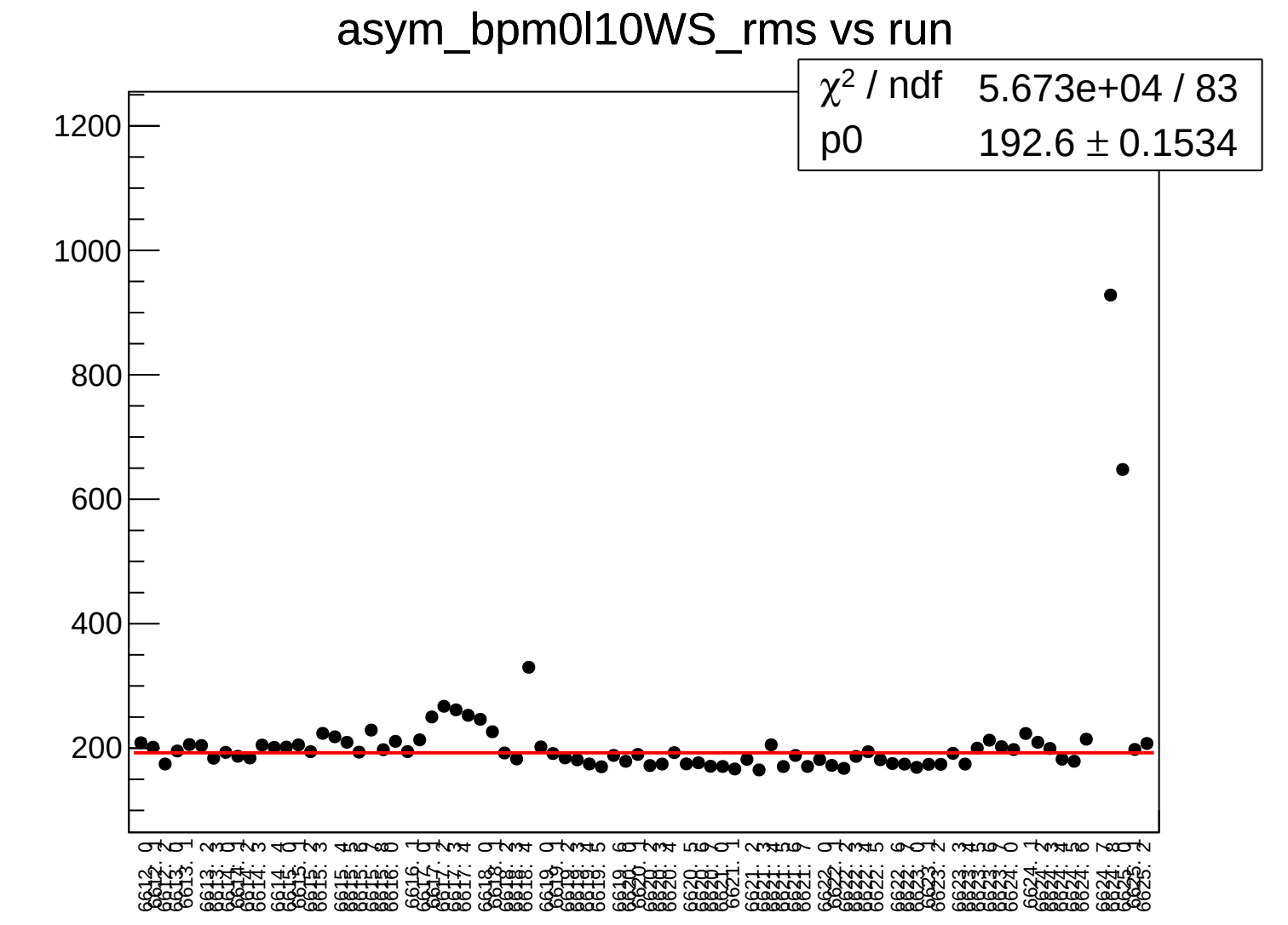

asym_bpm0l09WS_mean vs run
χ² / ndf 105.4 / 83
p0 1508 ± 270.3
pull
Entries 84
Mean 66.54
Std Dev 60.84

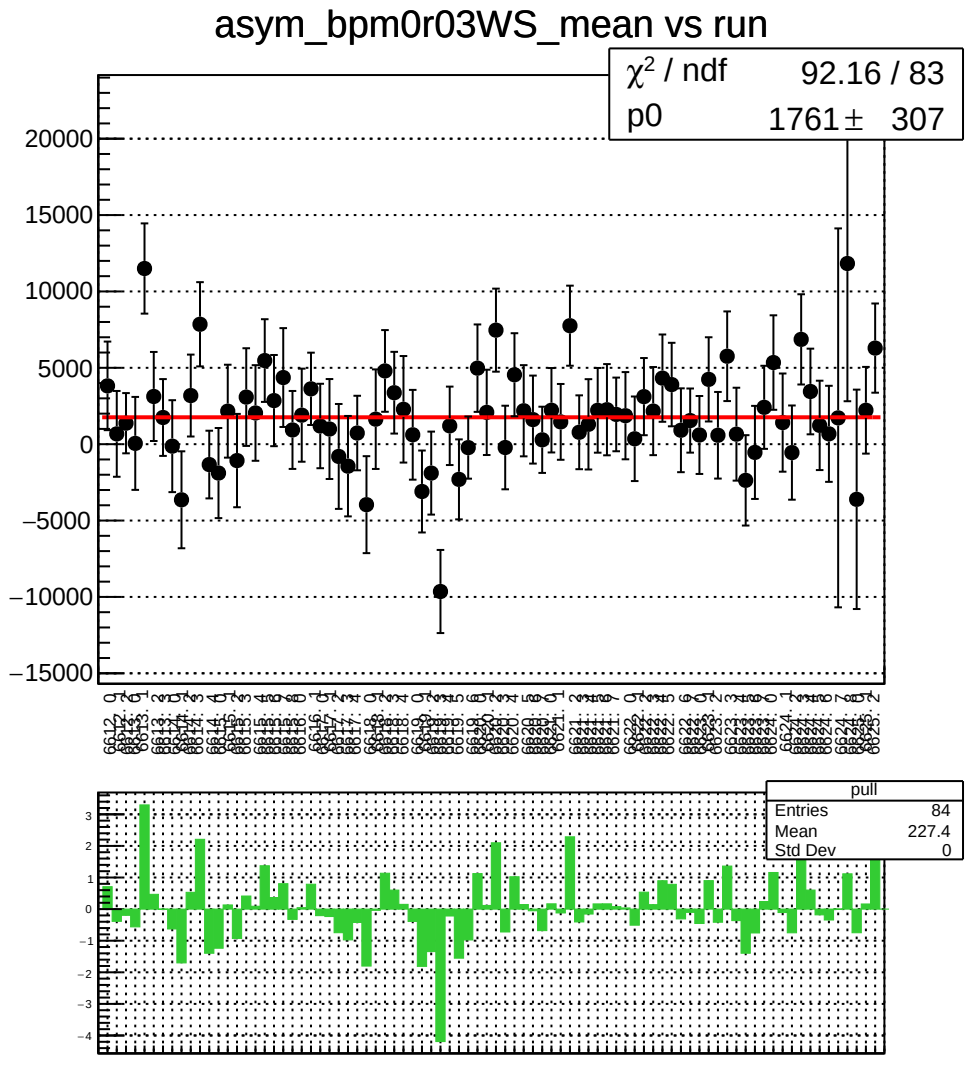

pull1D
Entries 84
Mean 0.02209
Std Dev 1.12

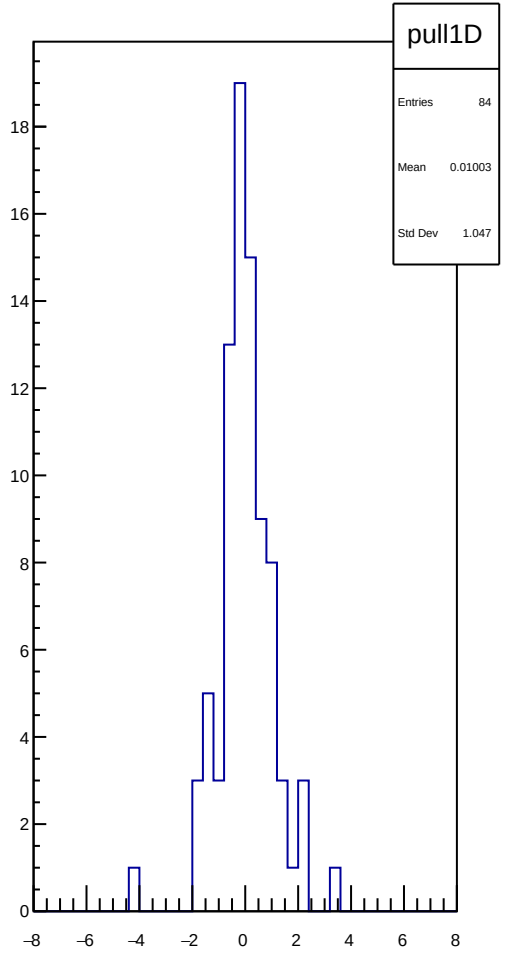

asym_bpm0l09WS_rms vs run
χ² / ndf 4.992e+04 / 83
p0 240.5 ± 0.1911
1200
1000
800
600
400
200

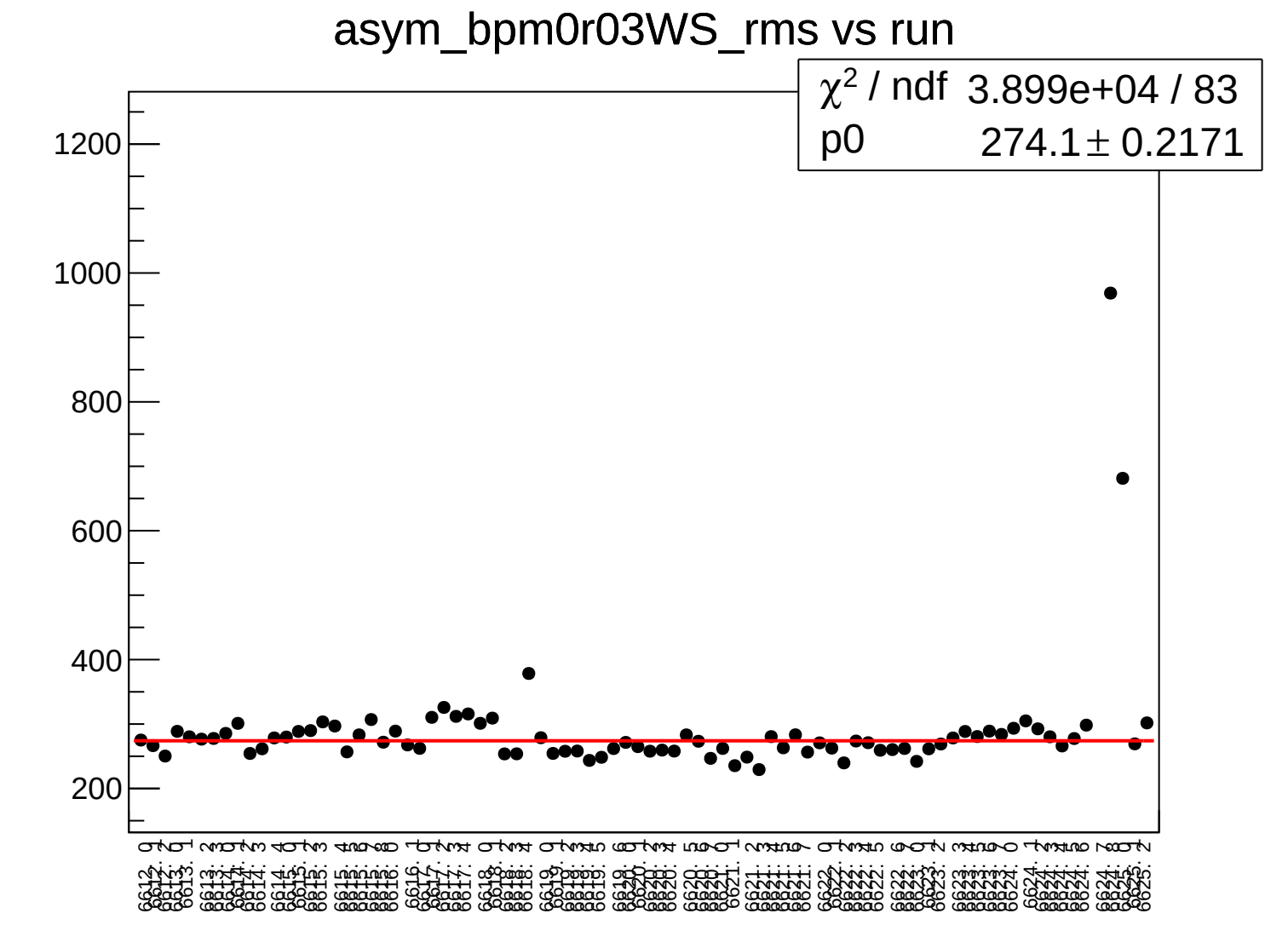

asym_bpm0l10WS_mean vs run
χ² / ndf 96.22 / 83
p0 1812 ± 217
pull
Entries 84
Mean 56.91
Std Dev 69.84

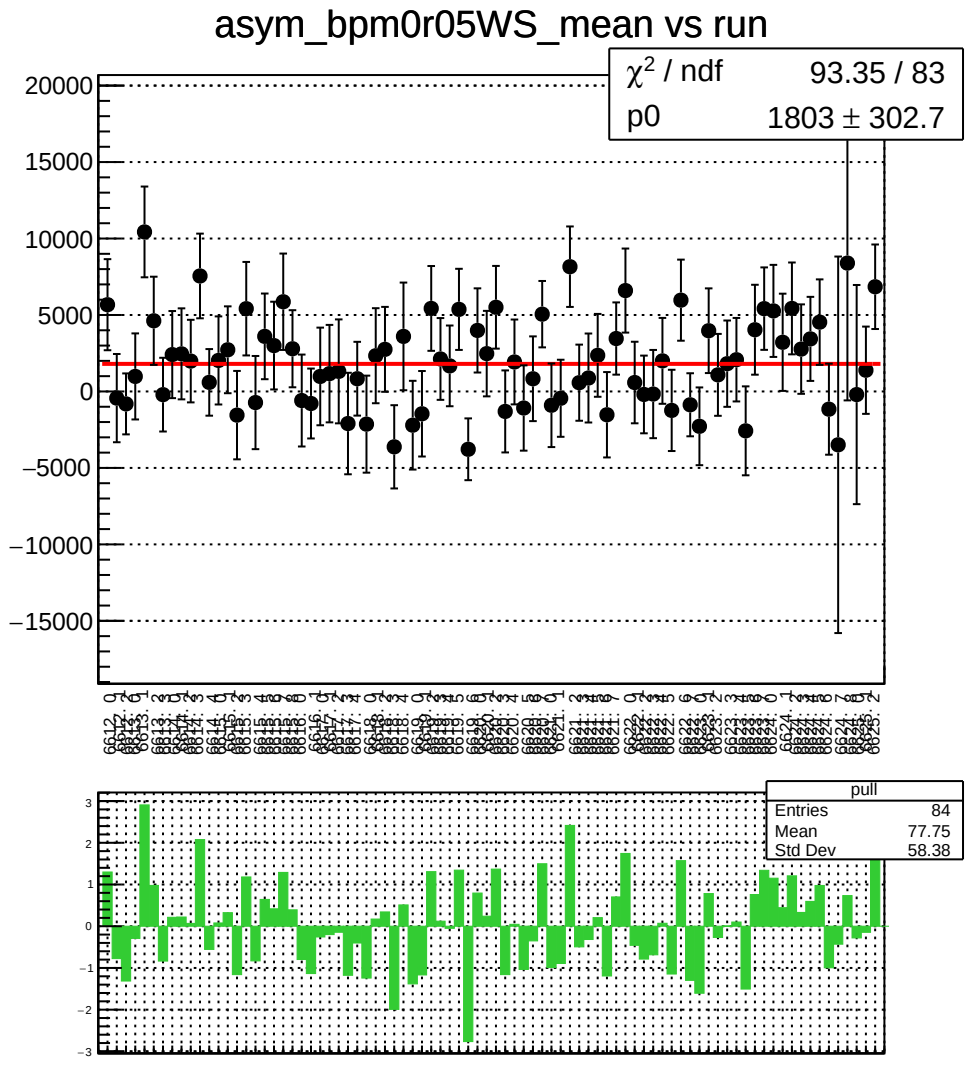

pull1D
Entries 84
Mean 0.01972
Std Dev 1.07

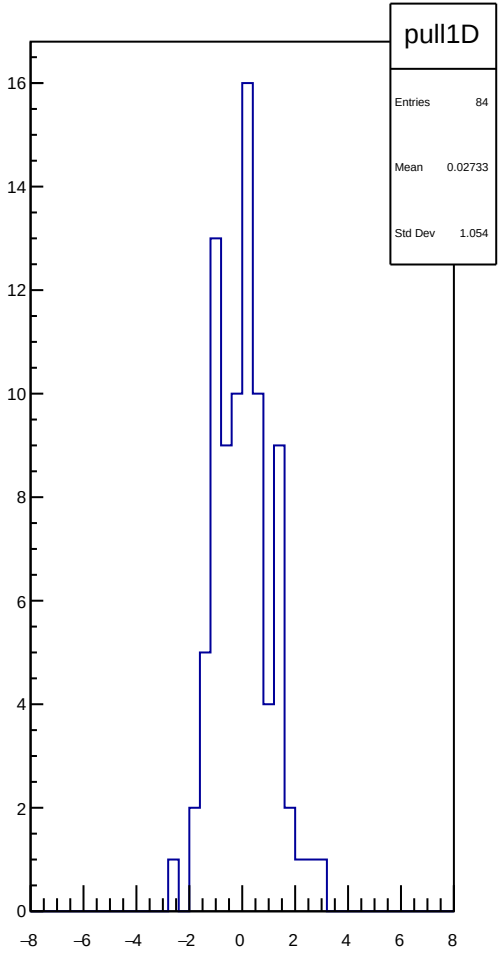

asym_bpm0l10WS_rms vs run
χ² / ndf 5.673e+04 / 83
p0 192.6 ± 0.1534
1200
1000
800
600
400
200

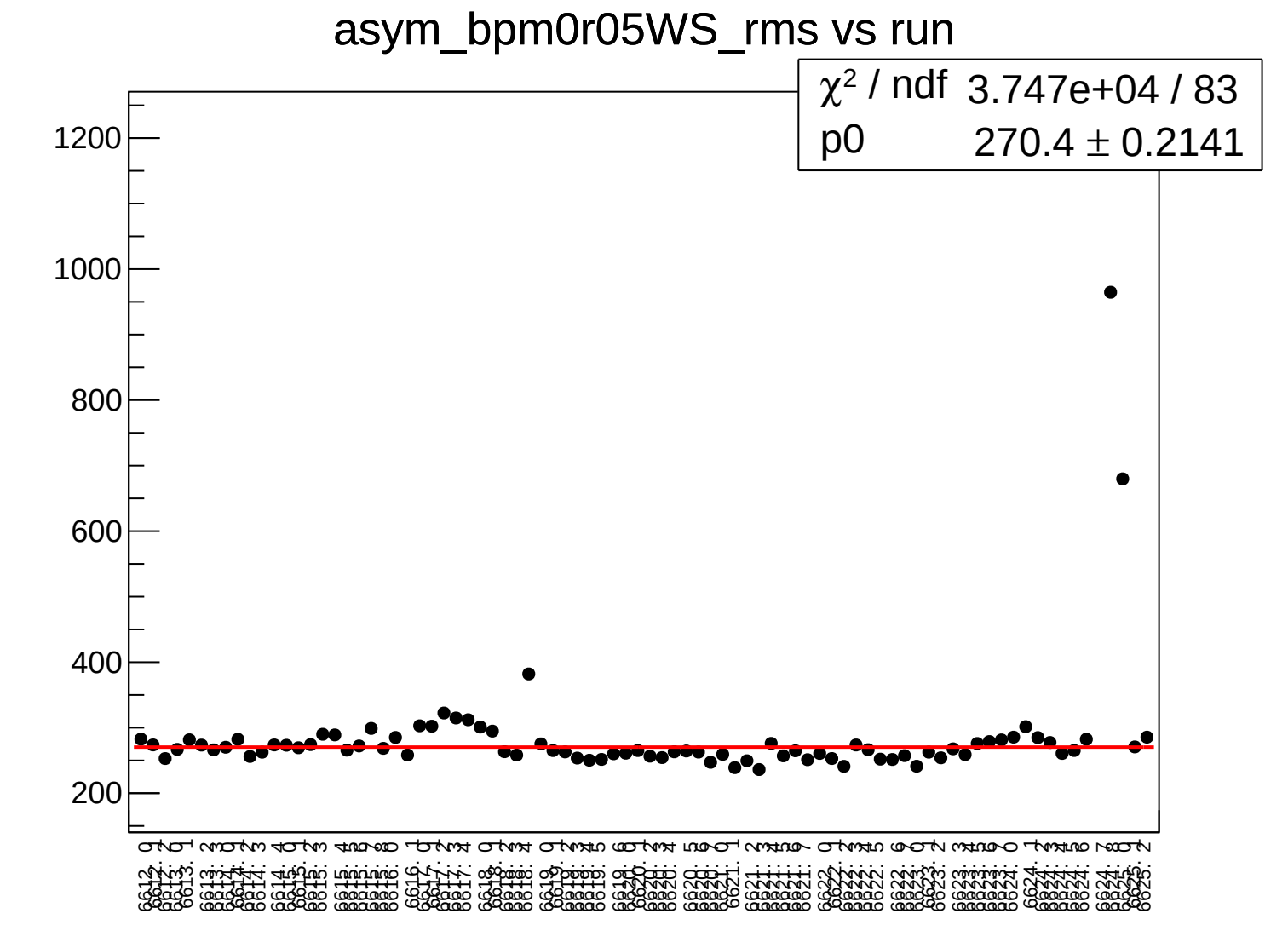

asym_bpm0r03WS_mean vs run
χ² / ndf 92.16 / 83
p0 1761 ± 307
pull
Entries 84
Mean 227.4
Std Dev 0

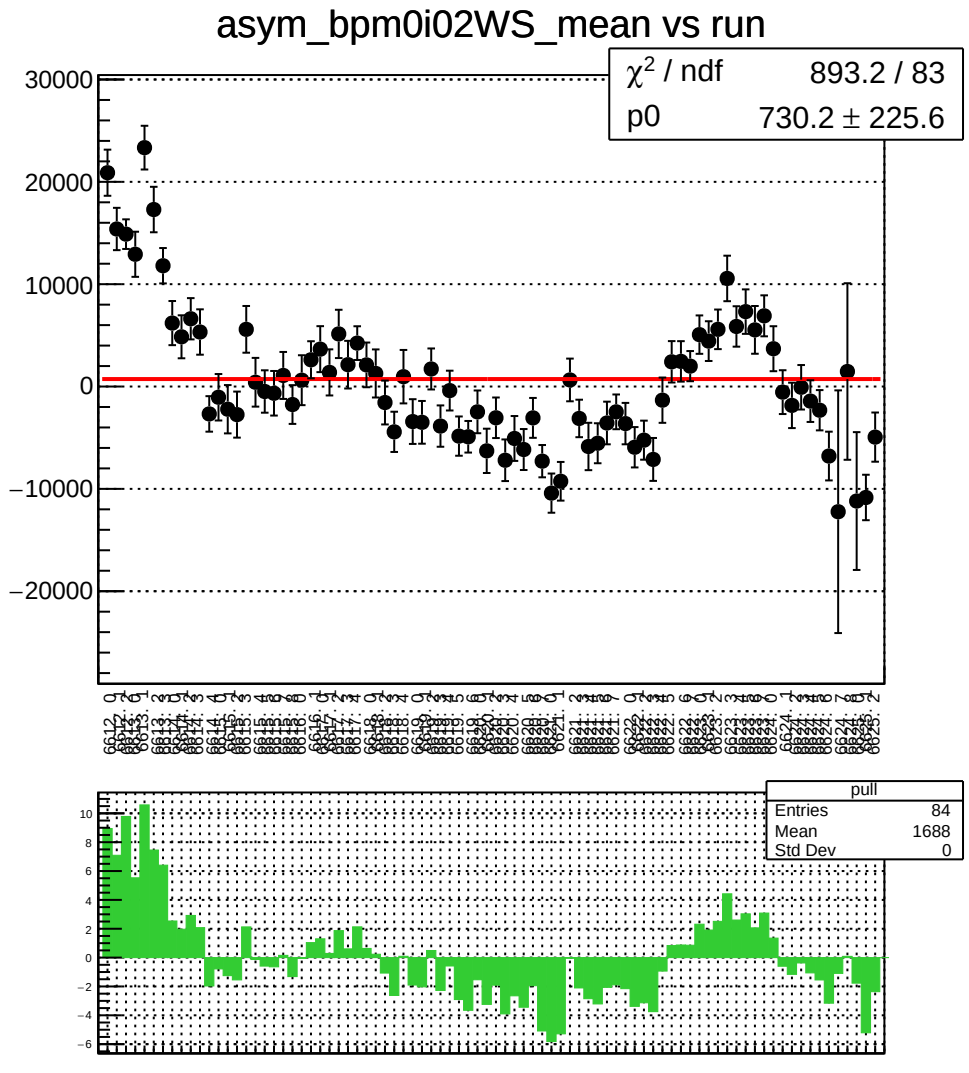

pull1D
Entries 84
Mean 0.01003
Std Dev 1.047

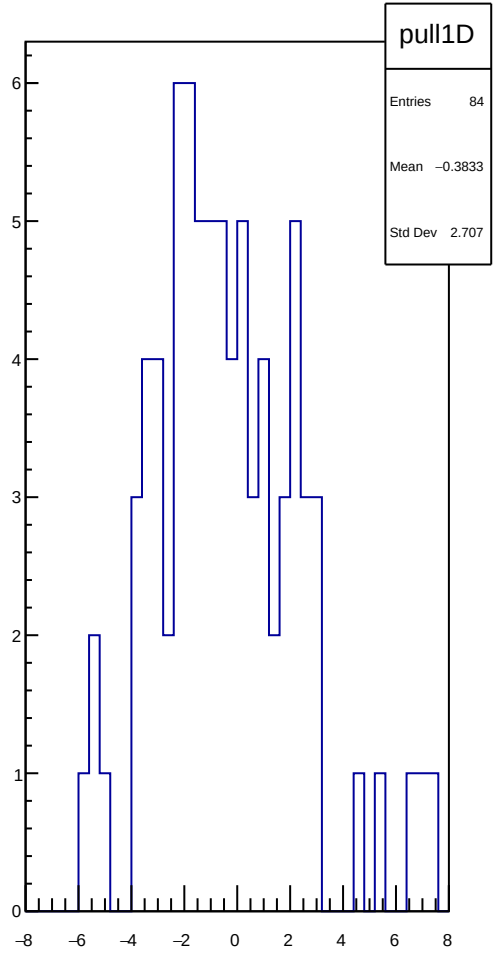

asym_bpm0r03WS_rms vs run
χ² / ndf 3.899e+04 / 83
p0 274.1 ± 0.2171
1200
1000
800
600
400
200

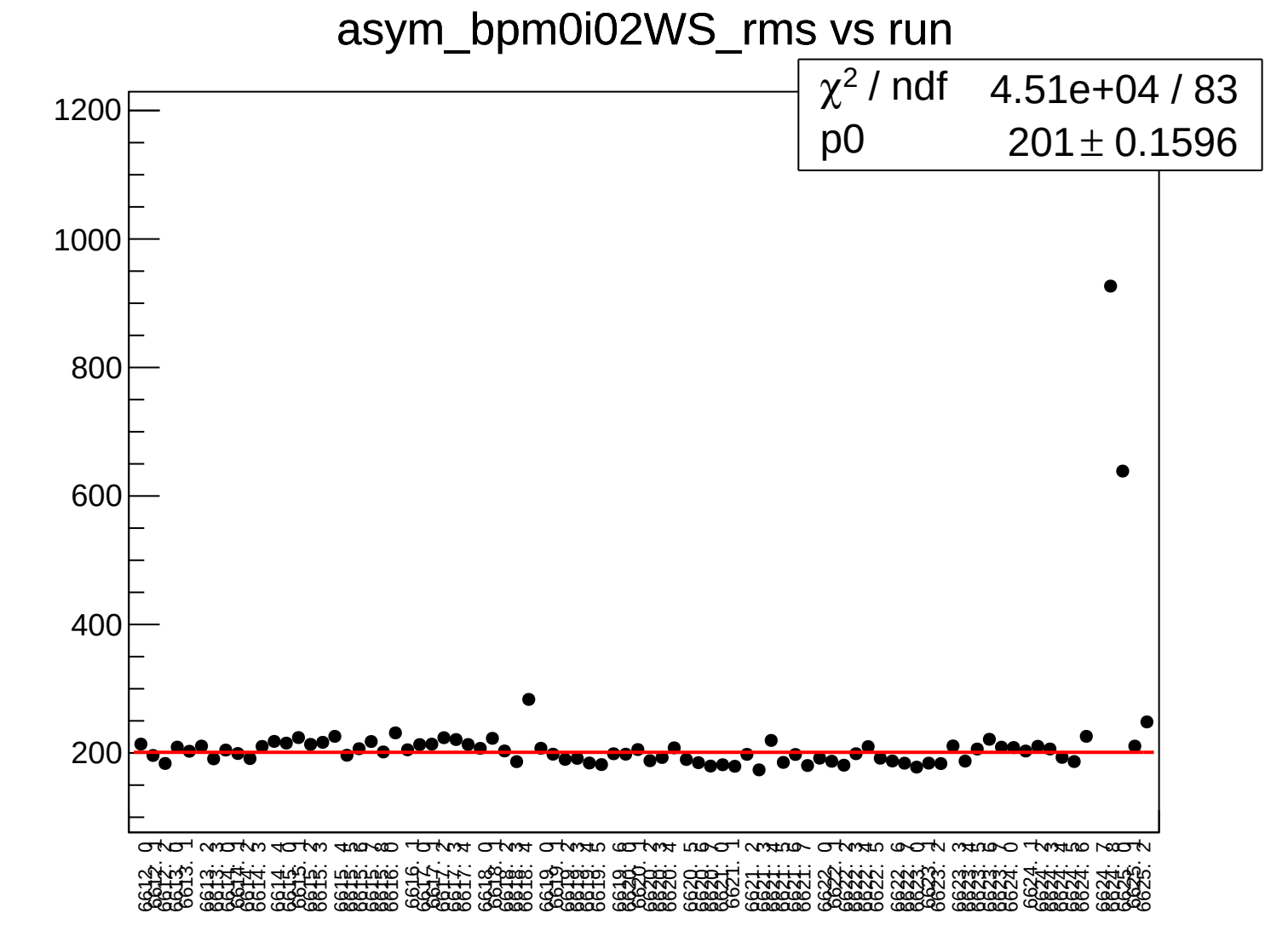

asym_bpm0r05WS_mean vs run
χ² / ndf 93.35 / 83
p0 1803 ± 302.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 77.75
Std Dev 58.38
3
2
1
0
−1
−2
−3

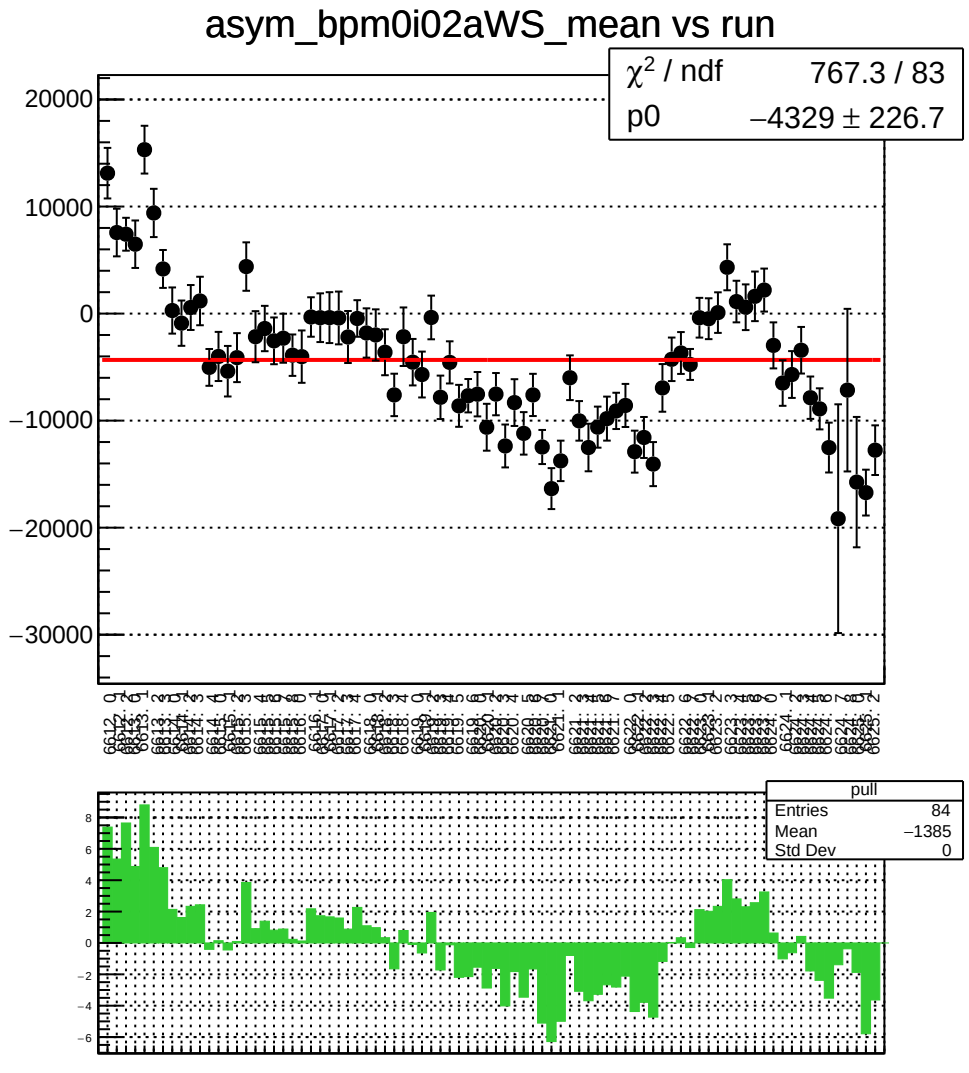

pull1D
Entries 84
Mean 0.02733
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

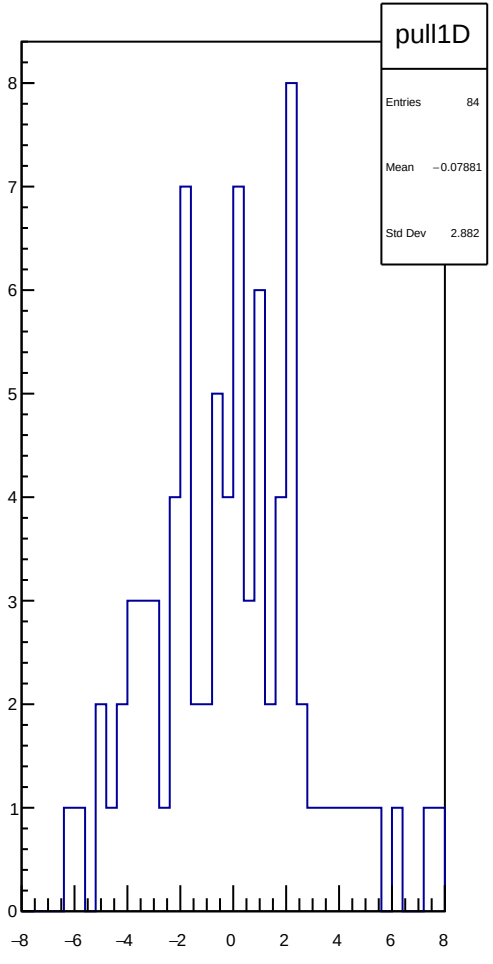

asym_bpm0r05WS_rms vs run
χ² / ndf 3.747e+04 / 83
p0 270.4 ± 0.2141
1200
1000
800
600
400
200

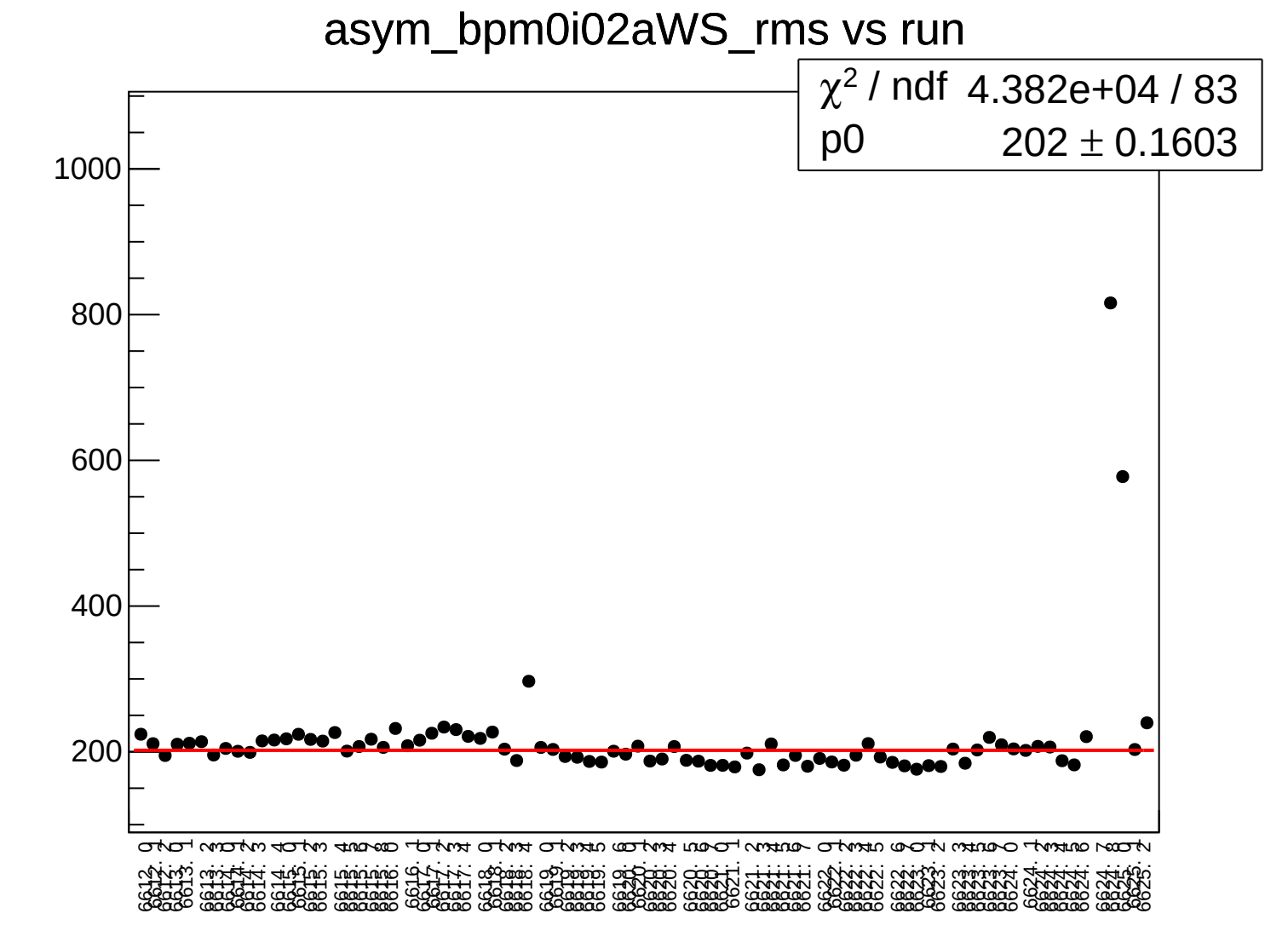

asym_bpm0i02WS_mean vs run
χ² / ndf 893.2 / 83
p0 730.2 ± 225.6
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 1688
Std Dev 0
10
8
6
4
2
0
−2
−4
−6

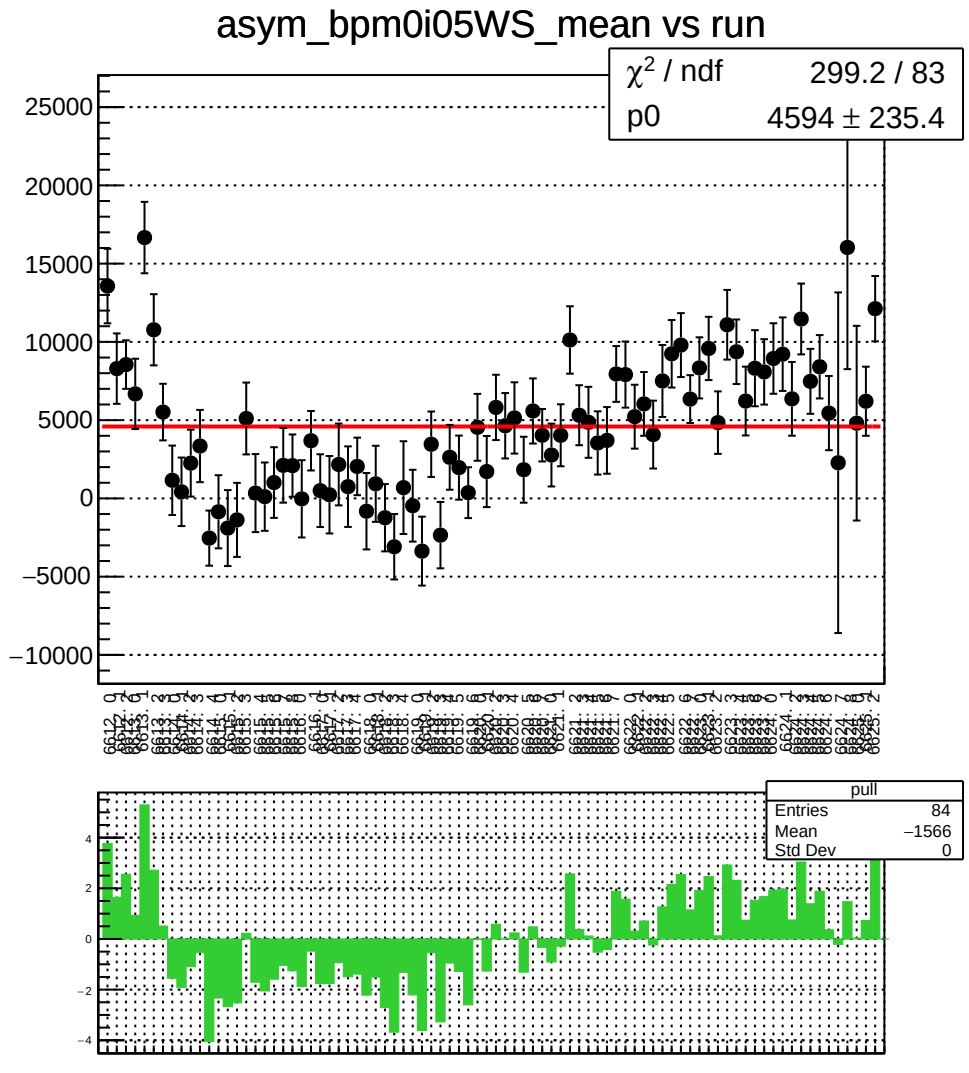

pull1D
Entries 84
Mean −0.3833
Std Dev 2.707
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

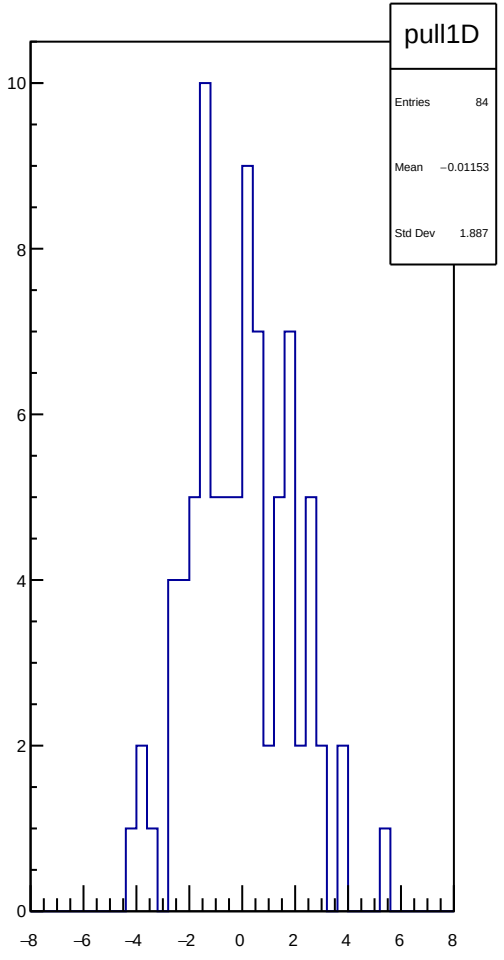

asym_bpm0i02WS_rms vs run
χ² / ndf 4.51e+04 / 83
p0 201 ± 0.1596
1200
1000
800
600
400
200

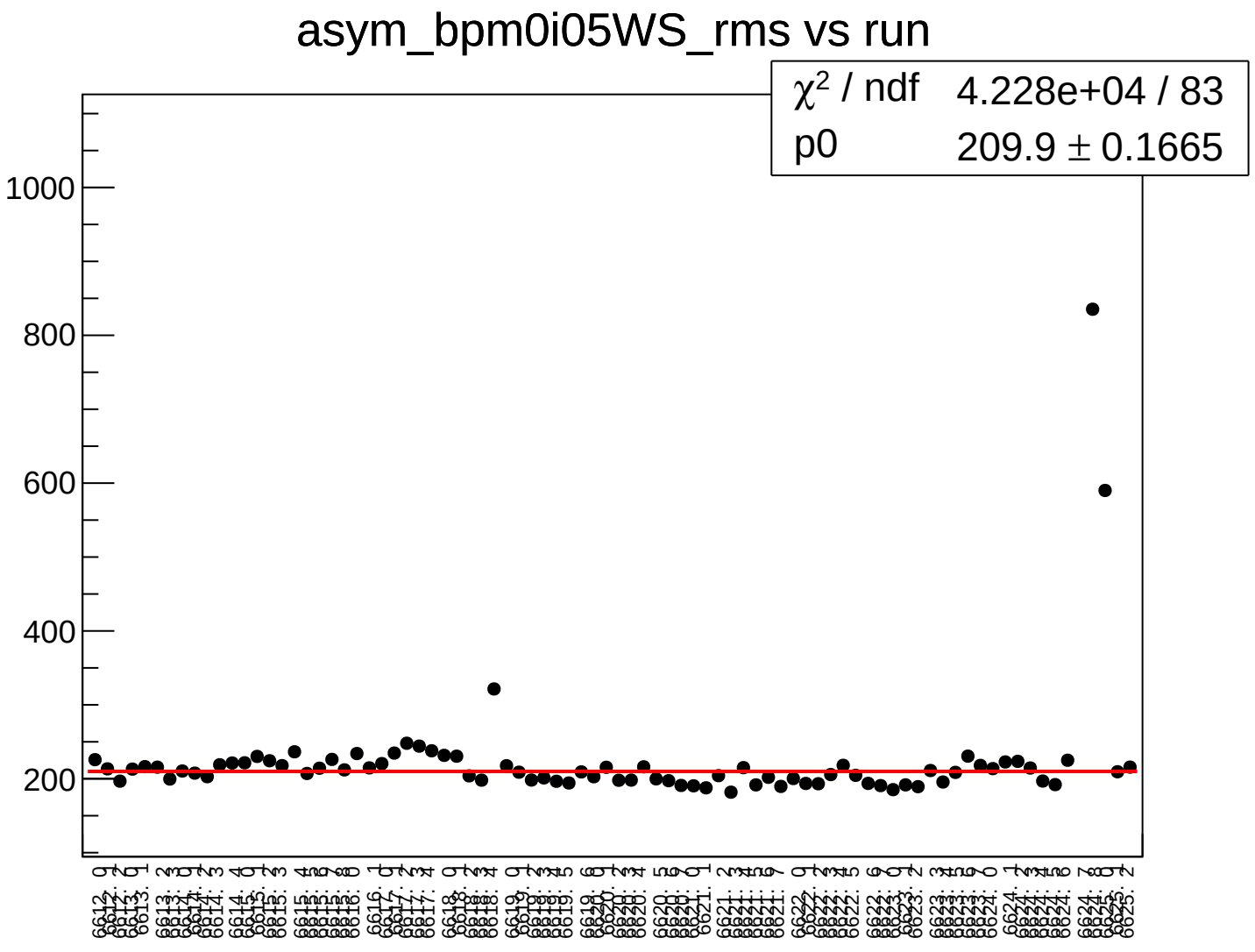

asym_bpm0i02aWS_mean vs run
χ² / ndf 767.3 / 83
p0 −4329 ± 226.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −1385
Std Dev 0
8
6
4
2
0
−2
−4
−6

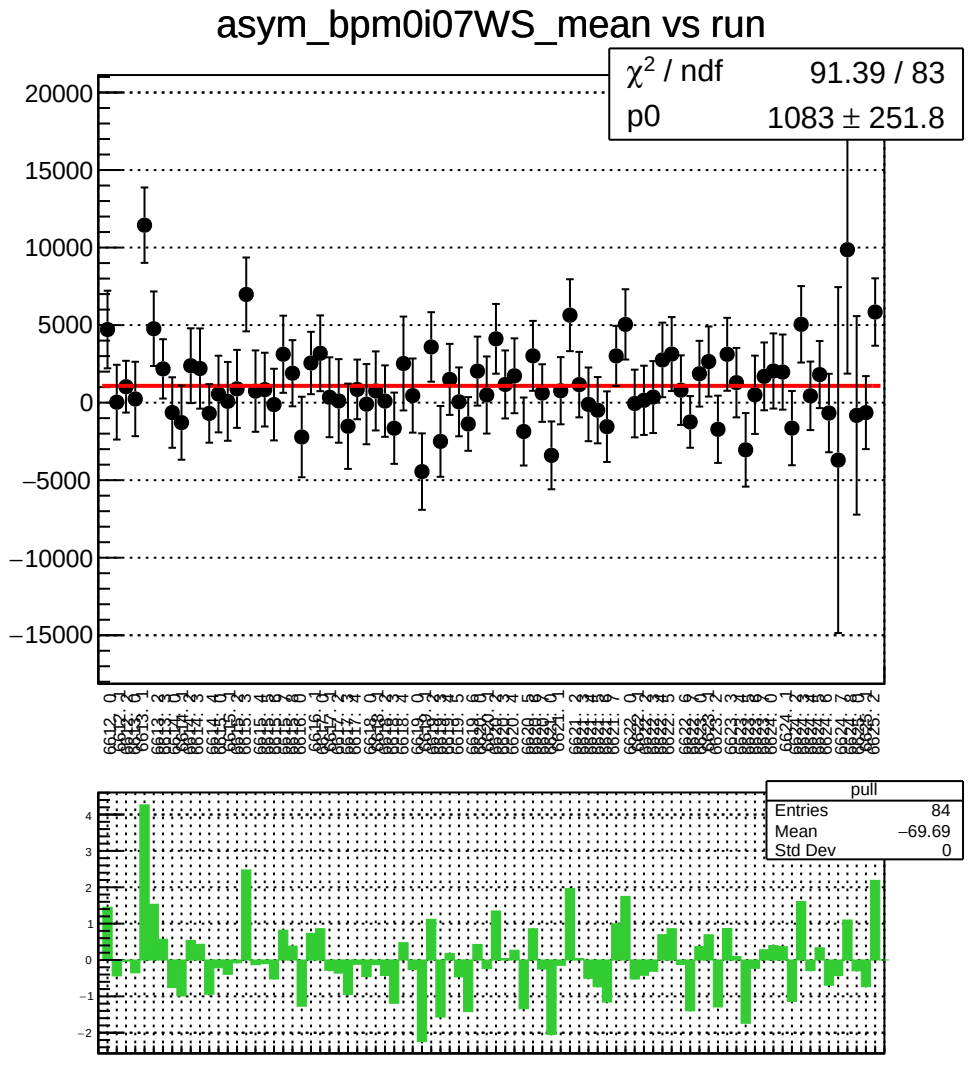

pull1D
Entries 84
Mean −0.07881
Std Dev 2.882
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

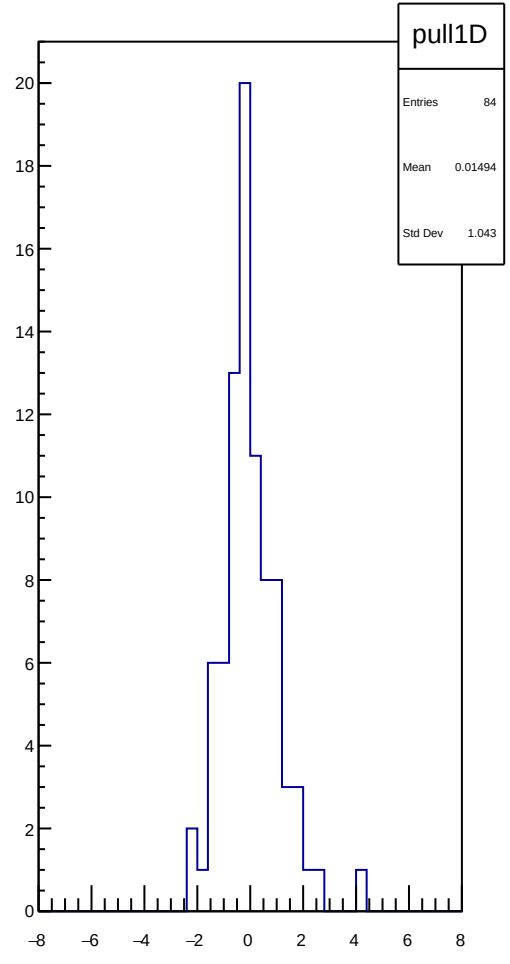

asym_bpm0i02aWS_rms vs run
χ^2 / ndf 4.382e+04 / 83
p0 202 ± 0.1603
1000
800
600
400
200

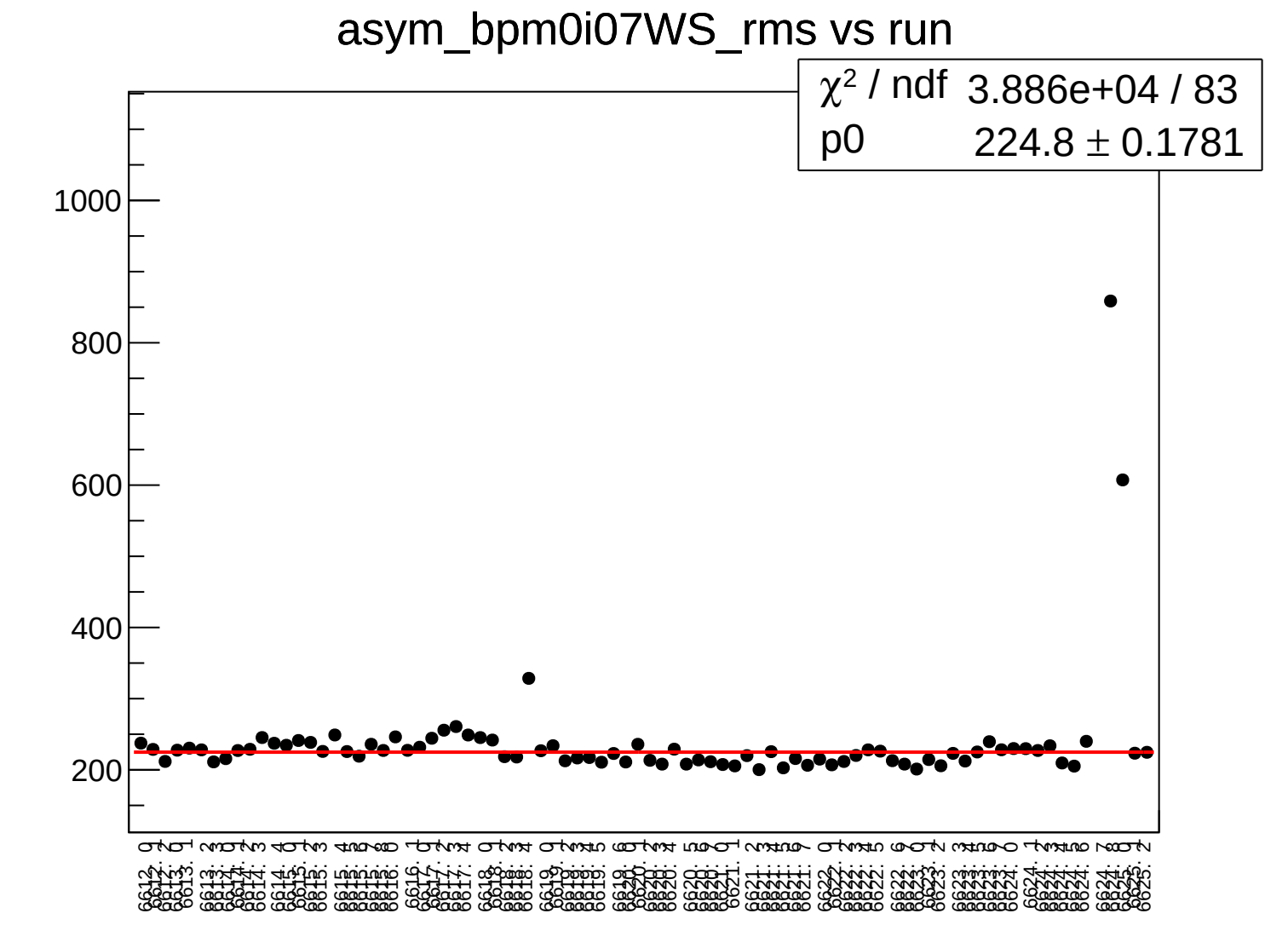

asym_bpm0i05WS_mean vs run
χ² / ndf 299.2 / 83
p0 4594 ± 235.4
pull
Entries 84
Mean −1566
Std Dev 0

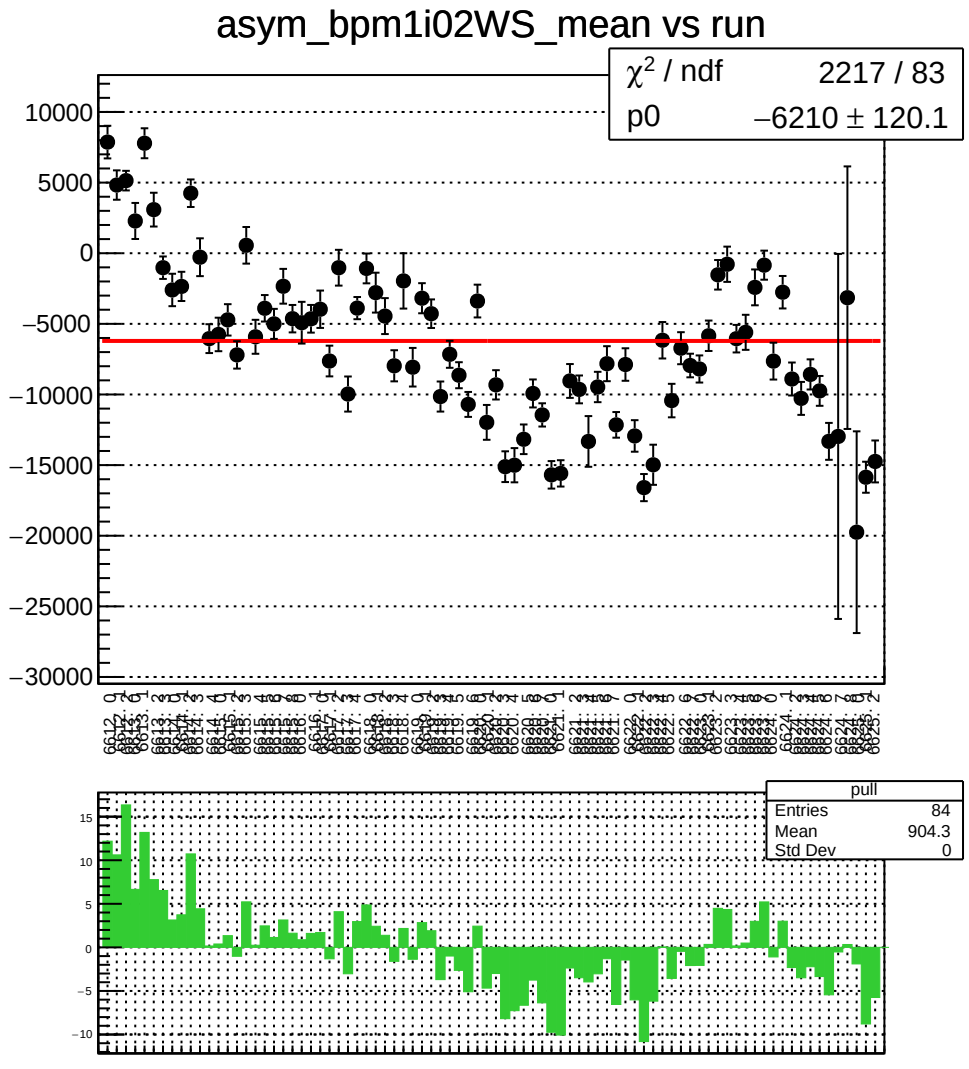

pull1D
Entries 84
Mean −0.01153
Std Dev 1.887

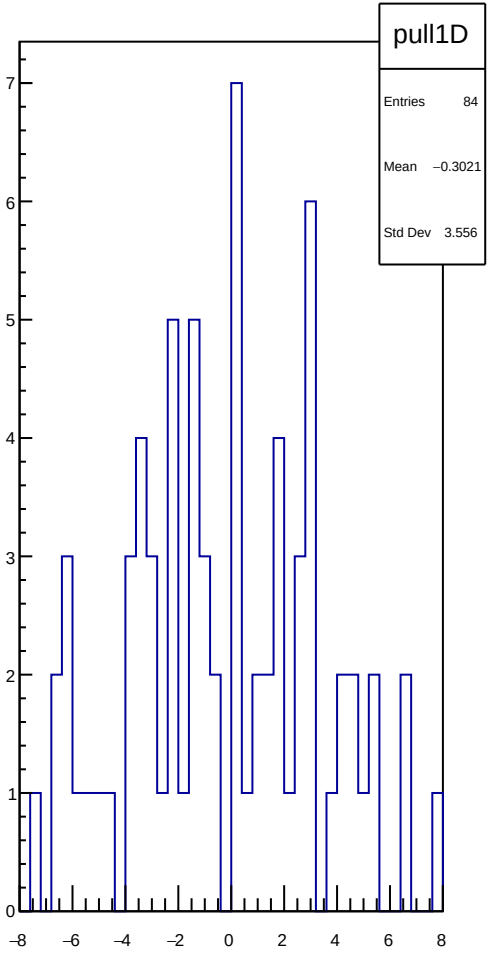

asym_bpm0i05WS_rms vs run
χ² / ndf 4.228e+04 / 83
p0 209.9 ± 0.1665
1000
800
600
400
200

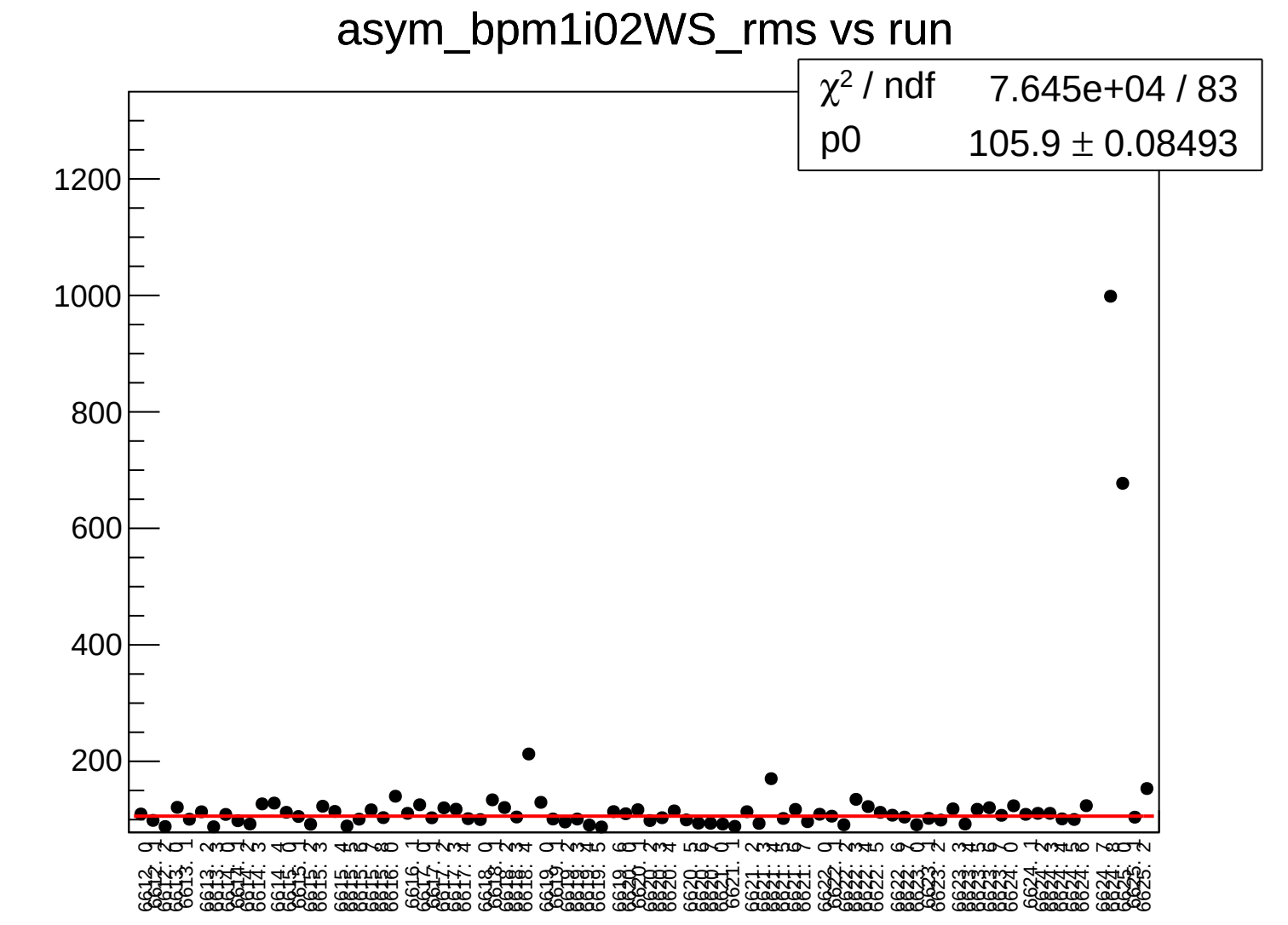

asym_bpm0i07WS_mean vs run
χ^2 / ndf 91.39 / 83
p0 1083 ± 251.8
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −69.69
Std Dev 0
4
3
2
1
0
−1
−2

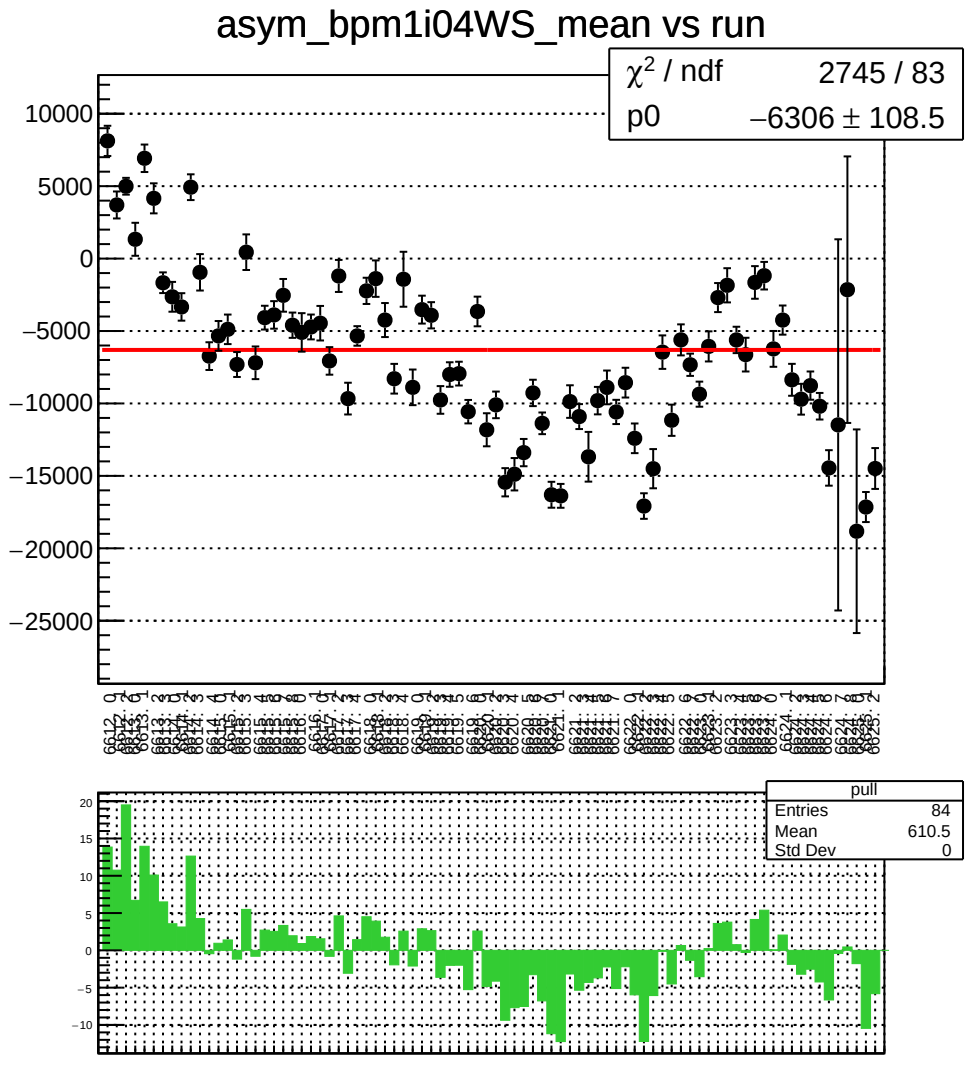

pull1D
Entries 84
Mean 0.01494
Std Dev 1.043
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

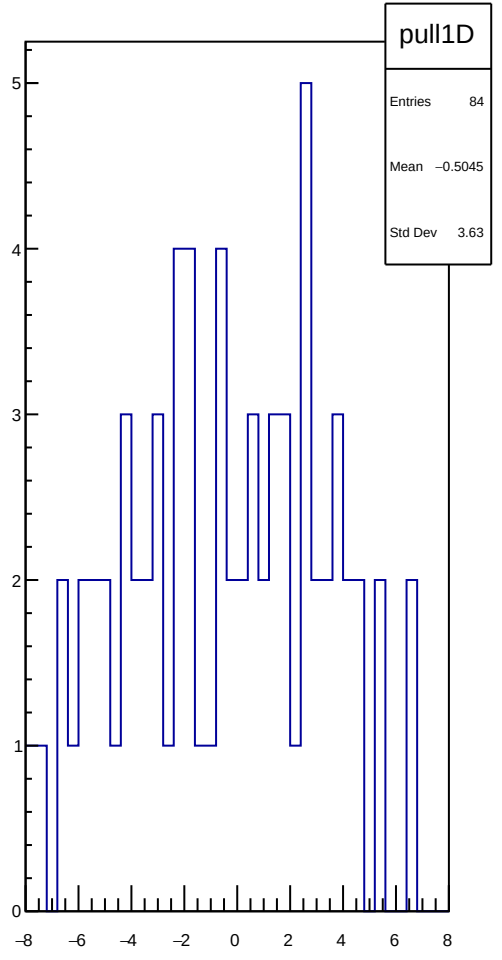

asym_bpm0i07WS_rms vs run
χ² / ndf 3.886e+04 / 83
p0 224.8 ± 0.1781
1000
800
600
400
200

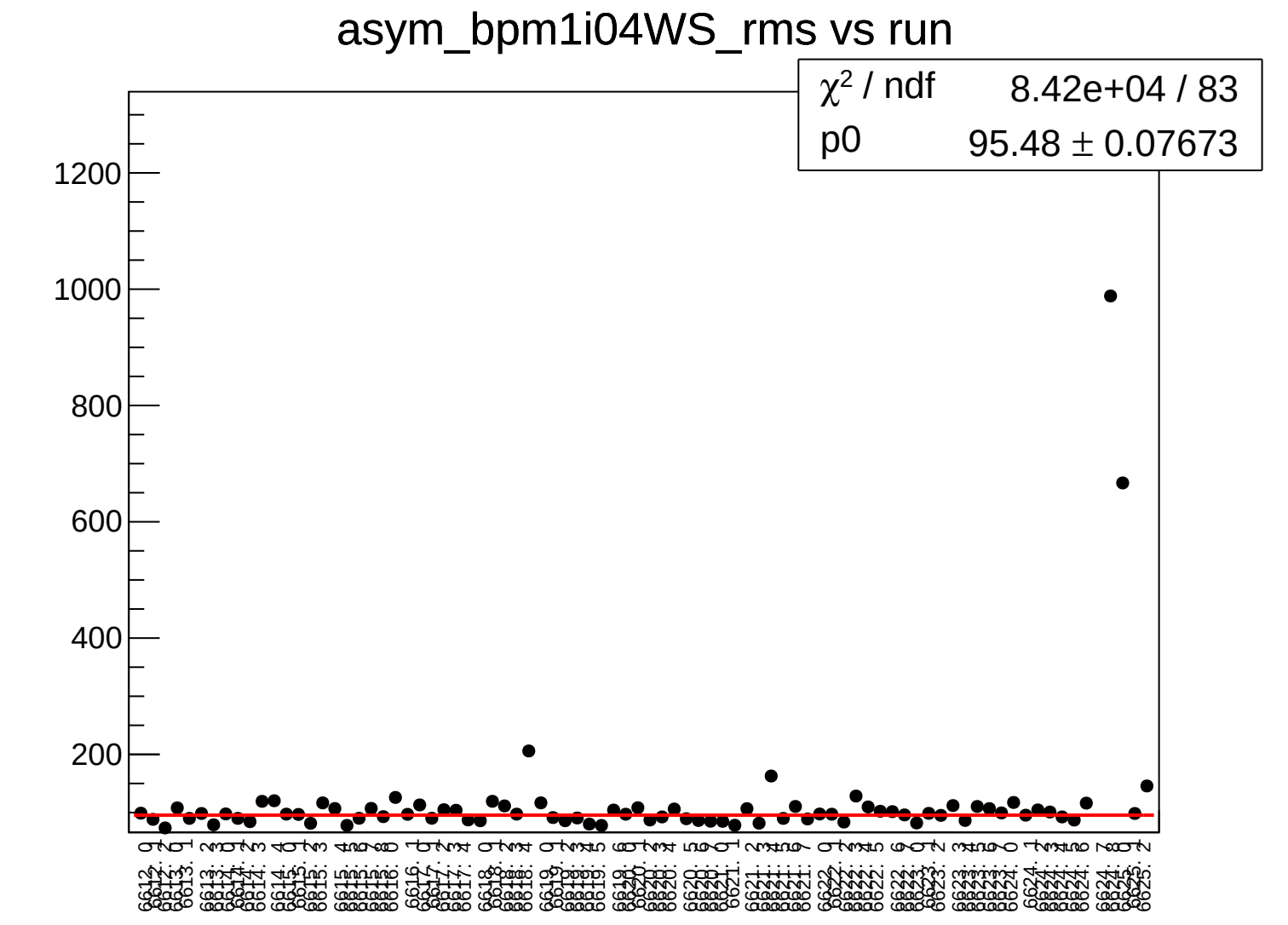

asym_bpm1i02WS_mean vs run
χ² / ndf 2217 / 83
p0 −6210 ± 120.1
pull
Entries 84
Mean 904.3
Std Dev 0

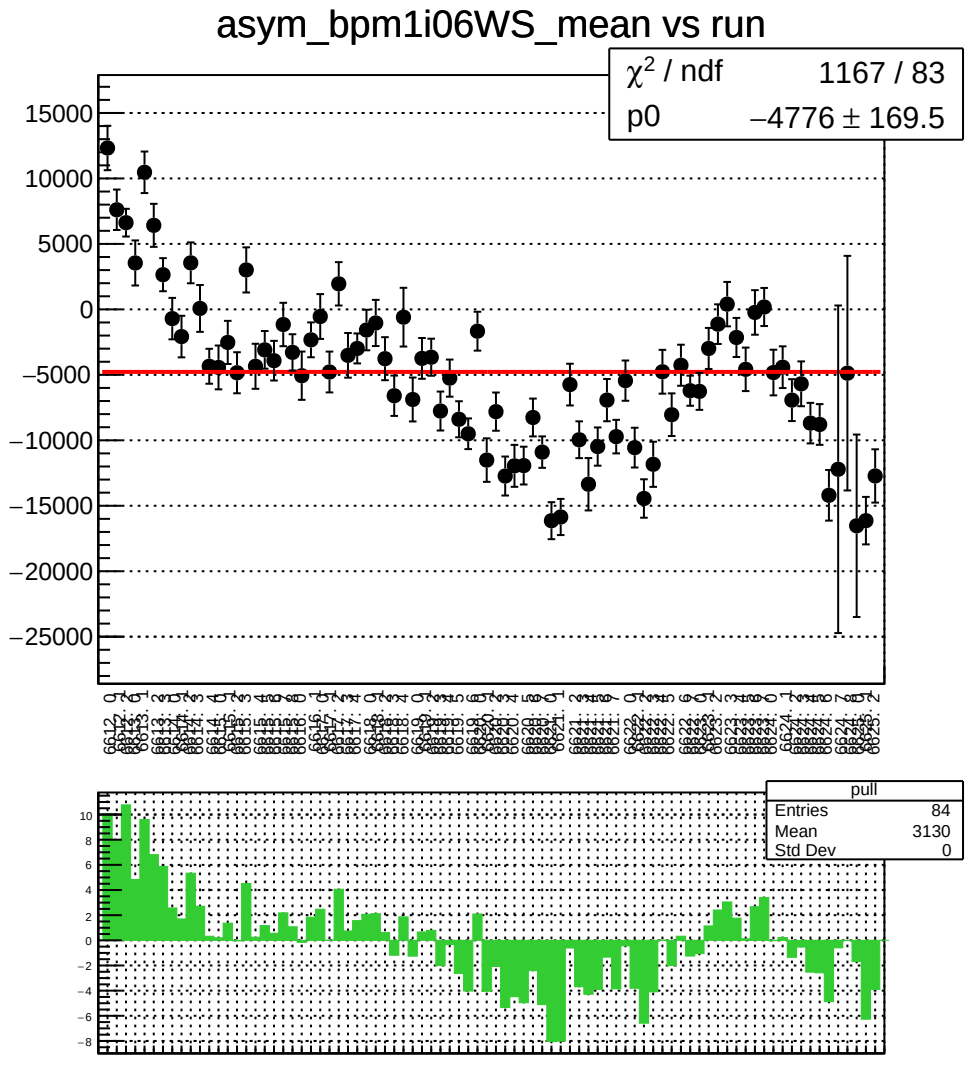

pull1D
Entries 84
Mean −0.3021
Std Dev 3.556

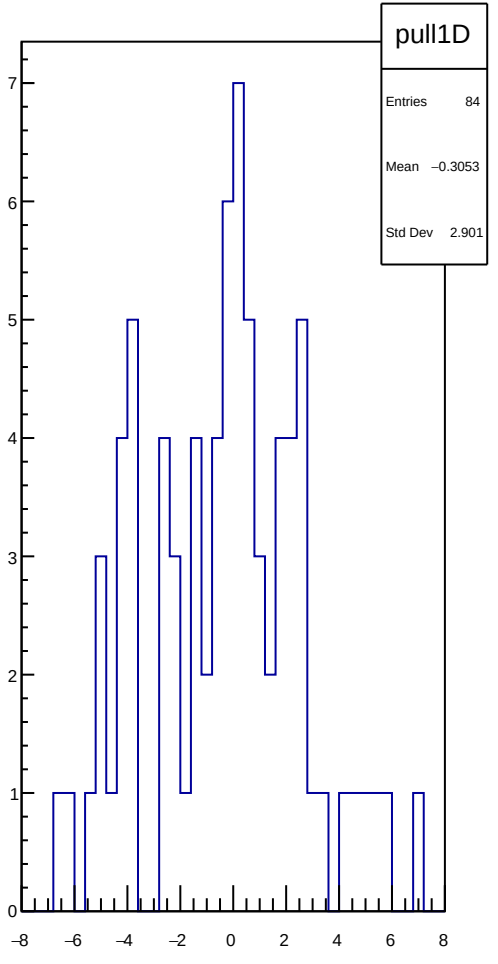

asym_bpm1i02WS_rms vs run
χ² / ndf 7.645e+04 / 83
p0 105.9 ± 0.08493
1200
1000
800
600
400
200

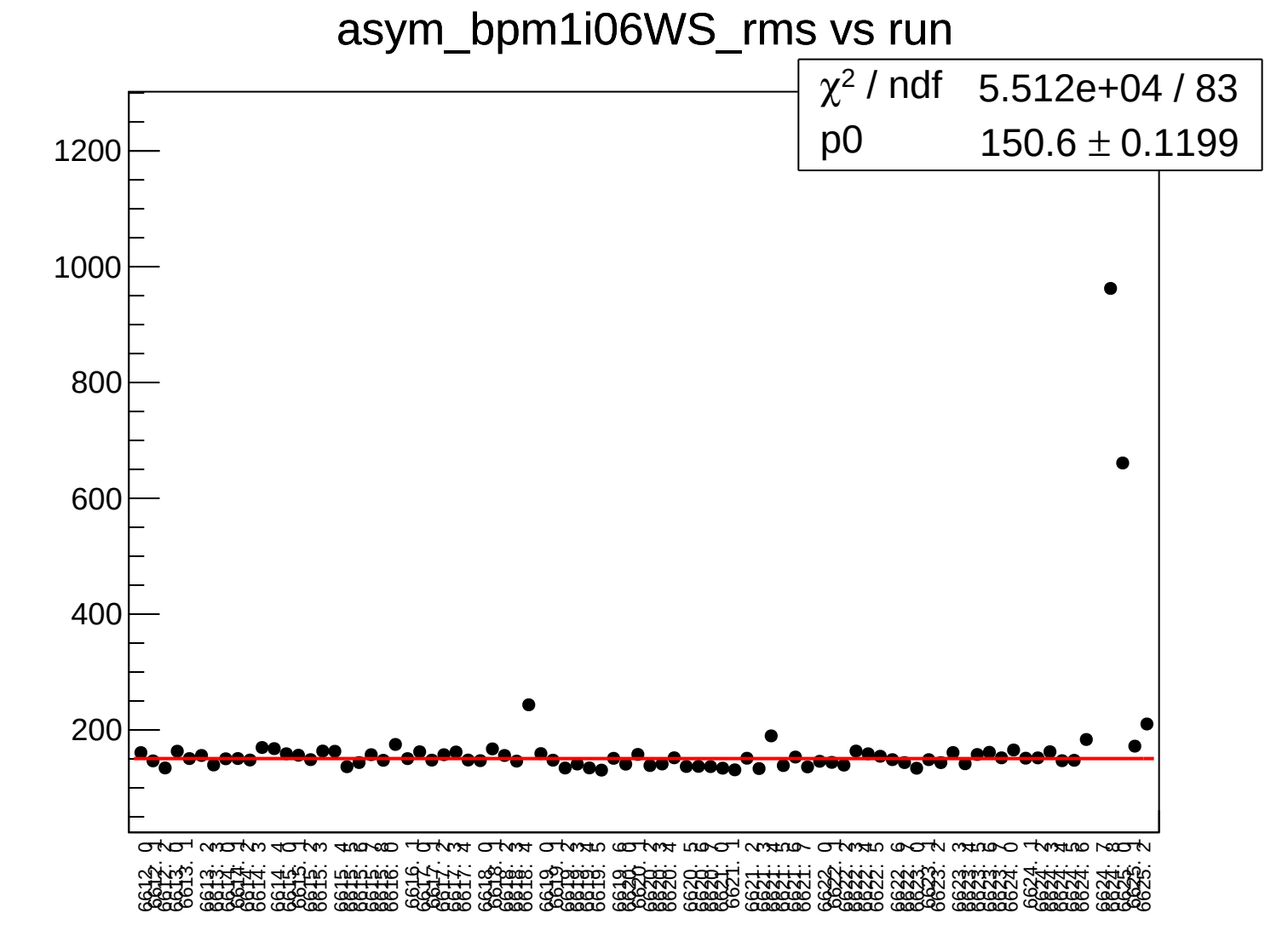

asym_bpm1i04WS_mean vs run
χ² / ndf 2745 / 83
p0 −6306 ± 108.5
pull
Entries 84
Mean 610.5
Std Dev 0

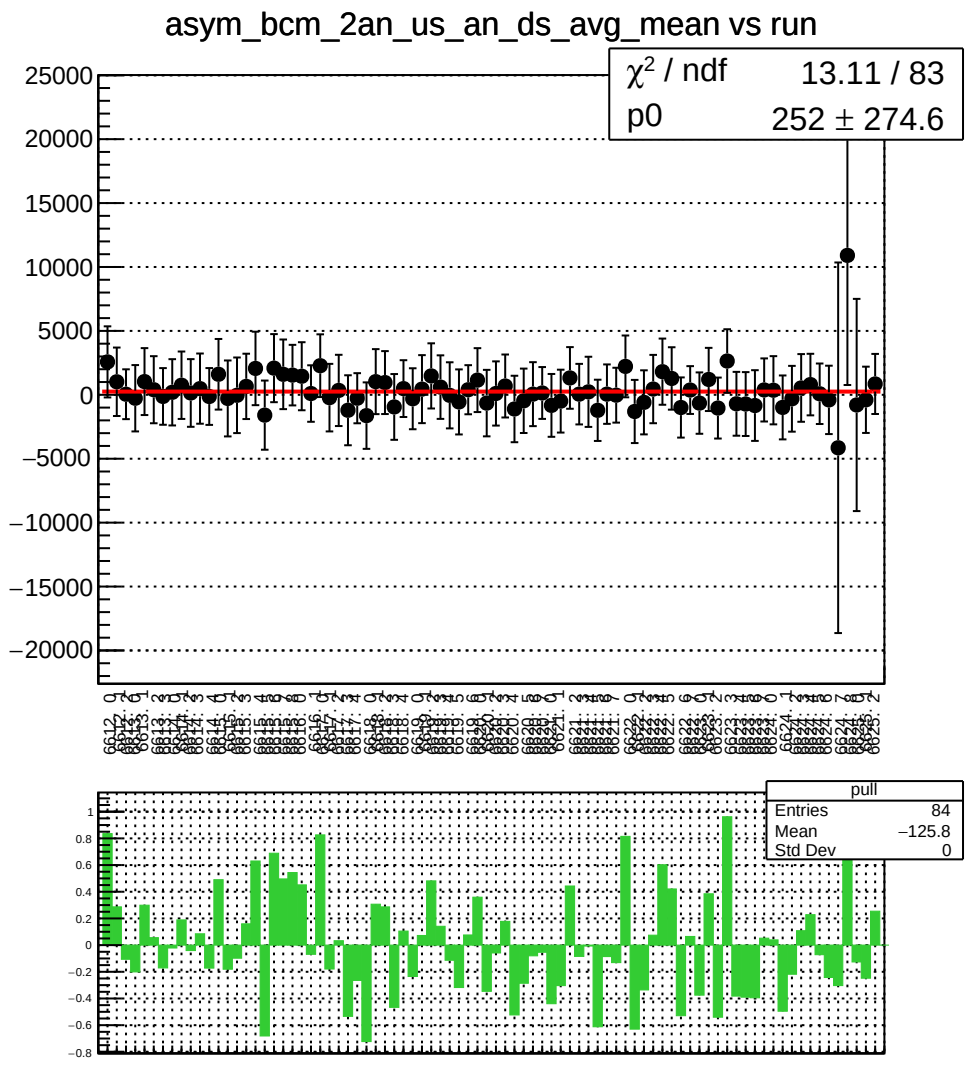

pull1D
Entries 84
Mean −0.5045
Std Dev 3.63

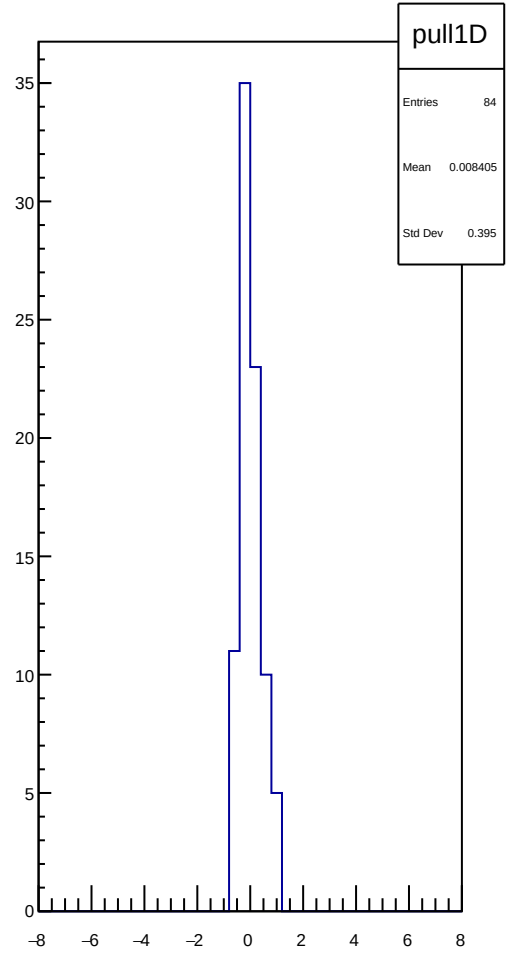

asym_bpm1i04WS_rms vs run
χ² / ndf 8.42e+04 / 83
p0 95.48 ± 0.07673
1200
1000
800
600
400
200

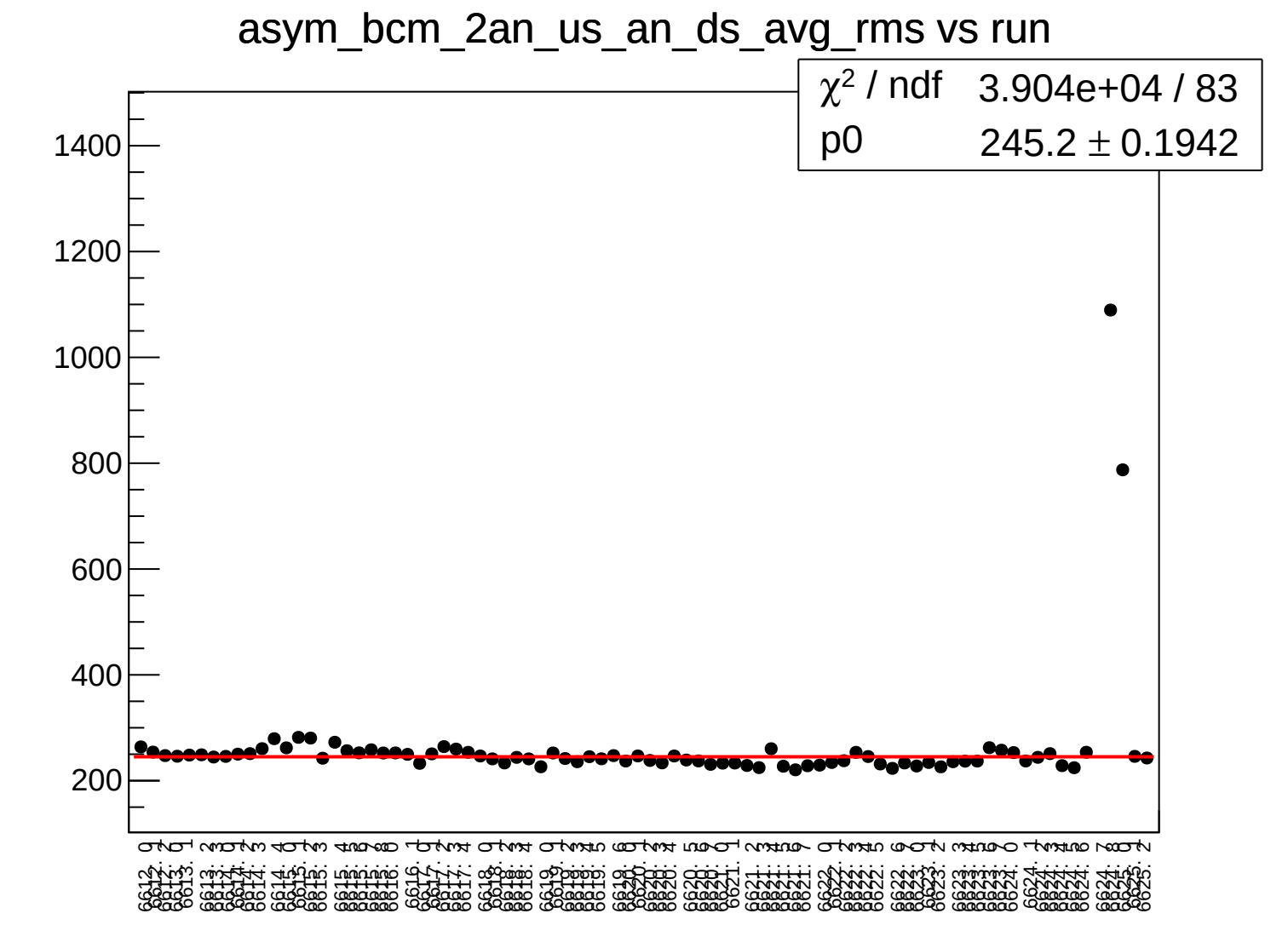

asym_bpm1i06WS_mean vs run
χ² / ndf 1167 / 83
p0 −4776 ± 169.5
pull
Entries 84
Mean 3130
Std Dev 0

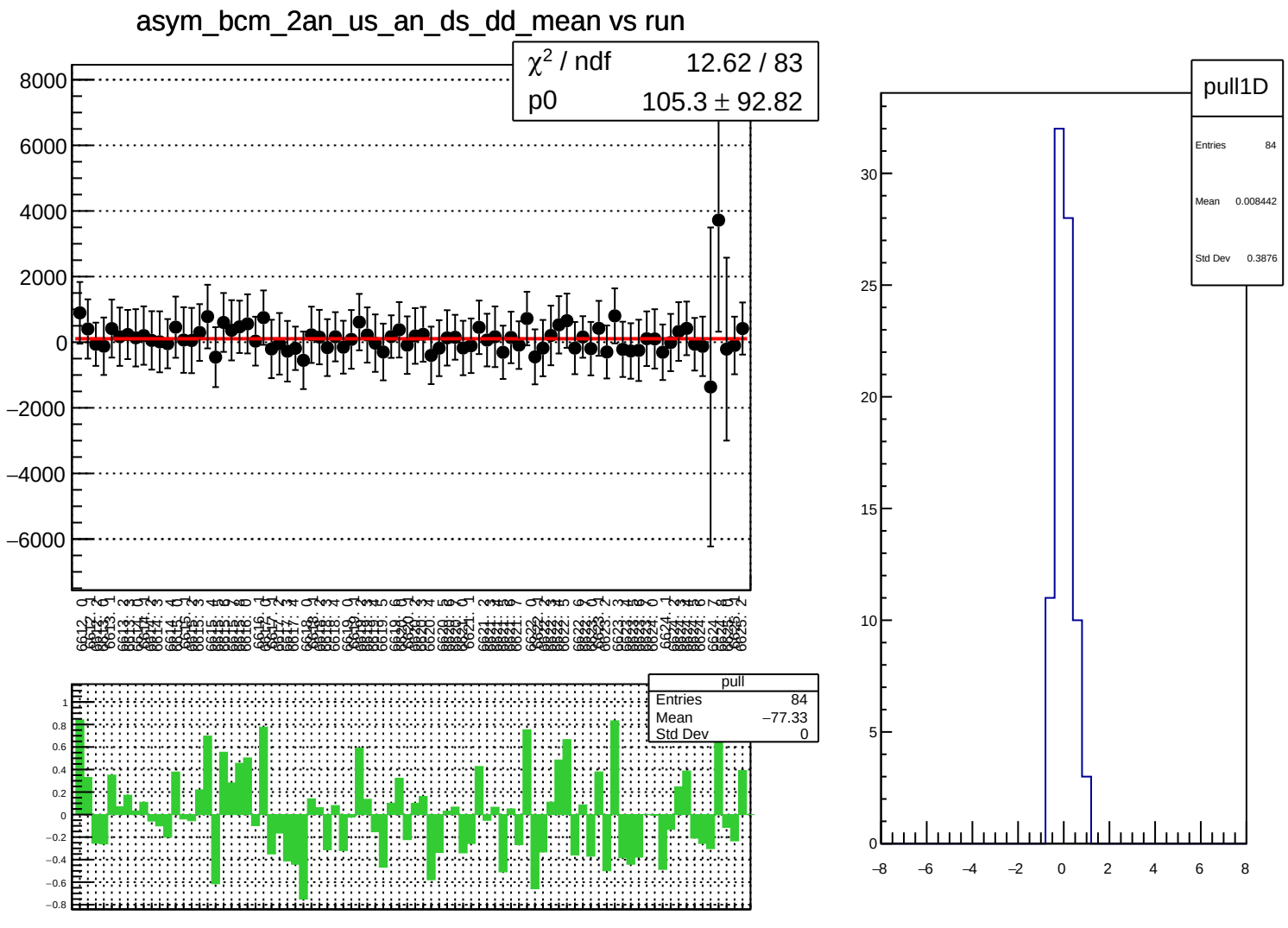

pull1D
Entries 84
Mean −0.3053
Std Dev 2.901

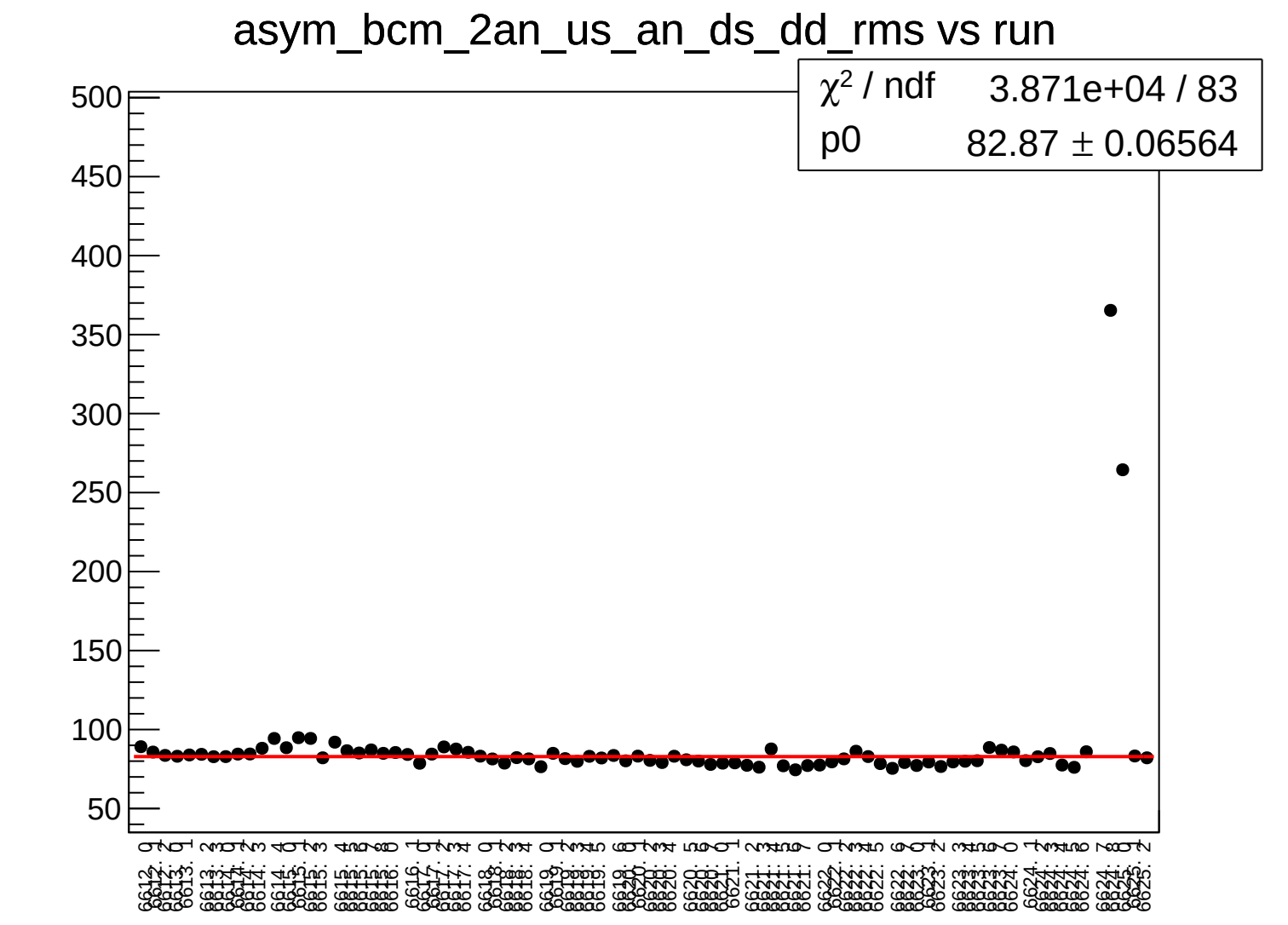

asym_bpm1i06WS_rms vs run
χ^2 / ndf 5.512e+04 / 83
p0 150.6 ± 0.1199
1200
1000
800
600
400
200

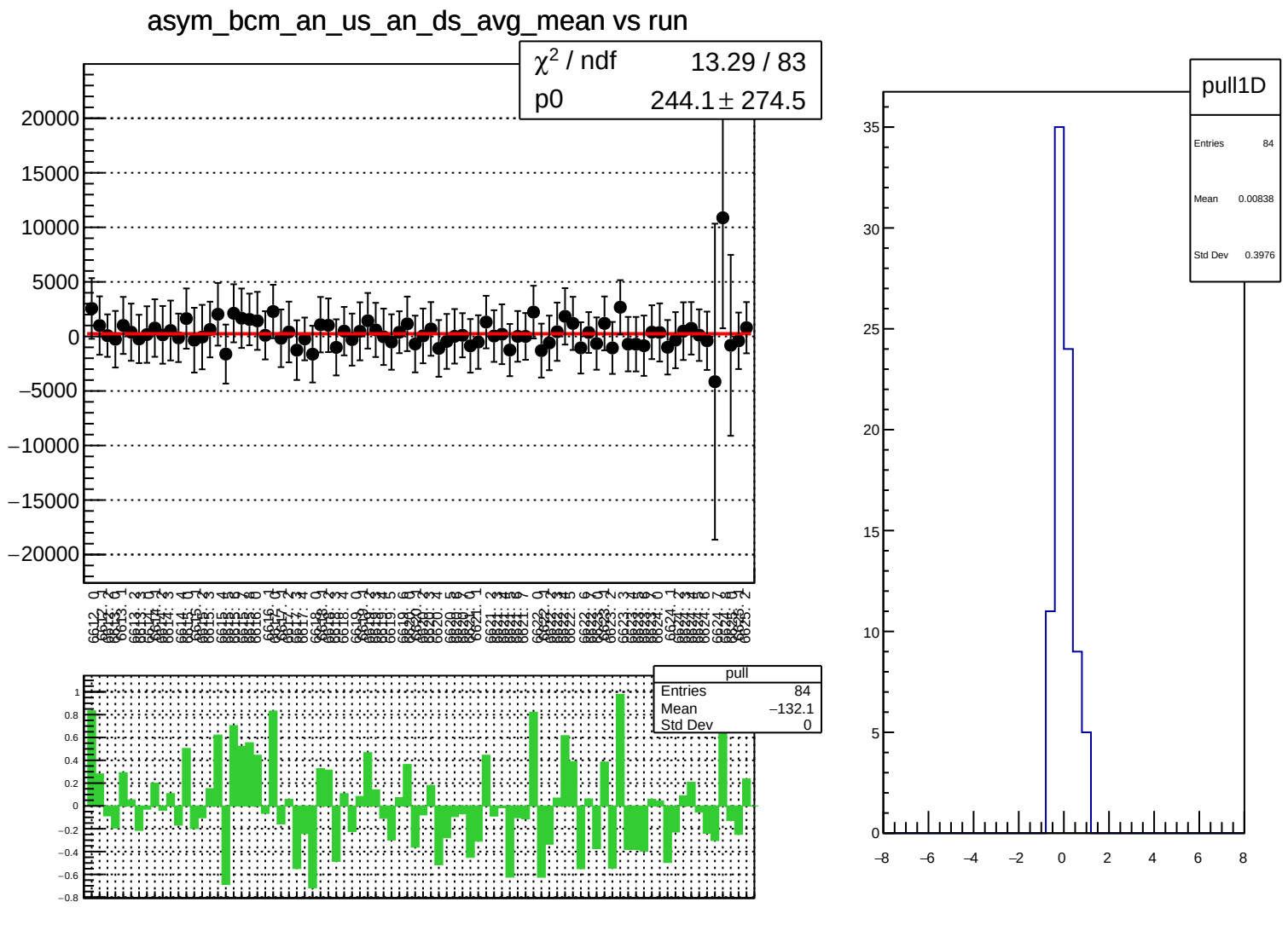

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 13.11 / 83
p0 252 ± 274.6
pull
Entries 84
Mean −125.8
Std Dev 0

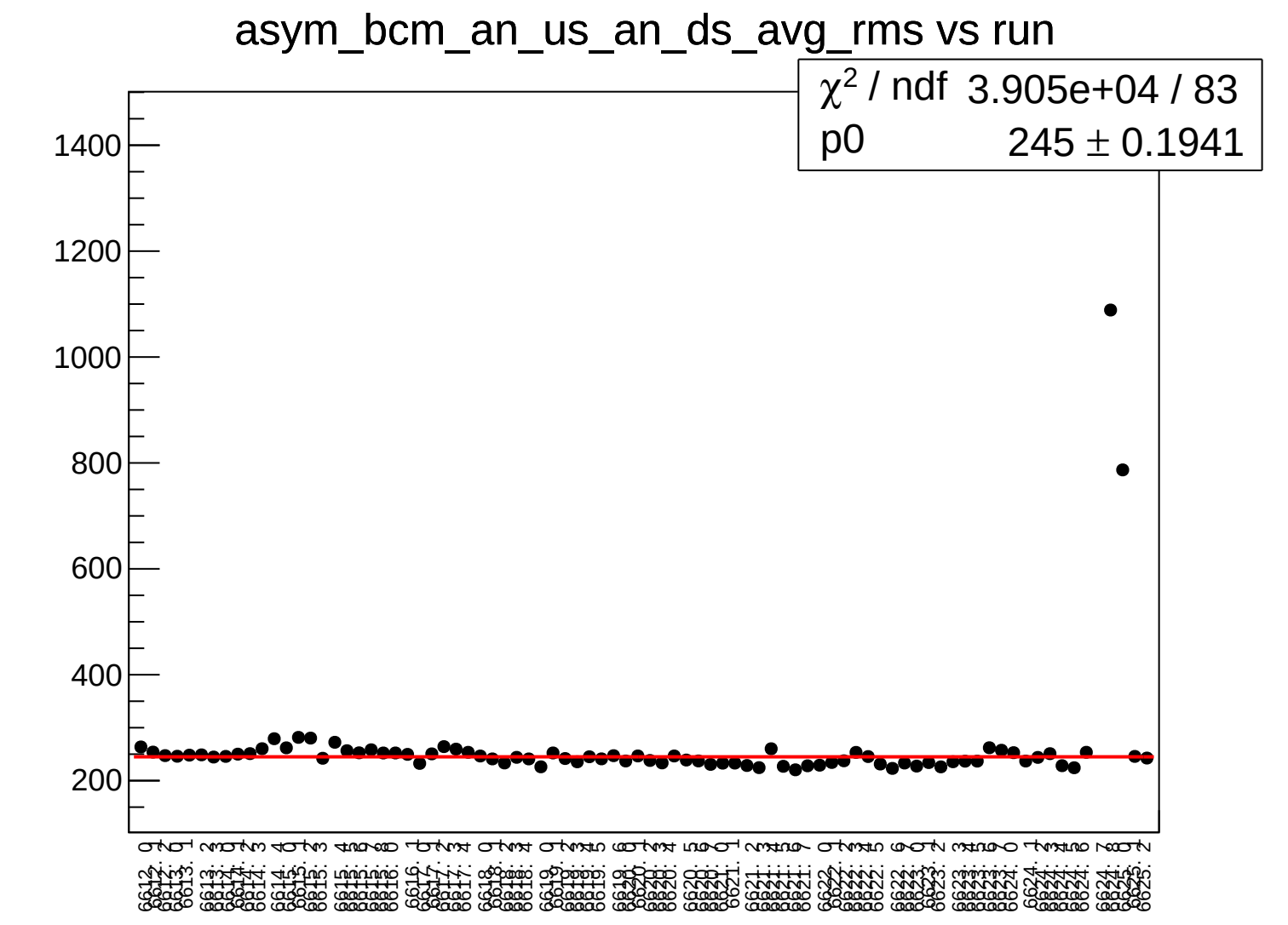

pull1D
Entries 84
Mean 0.008405
Std Dev 0.395

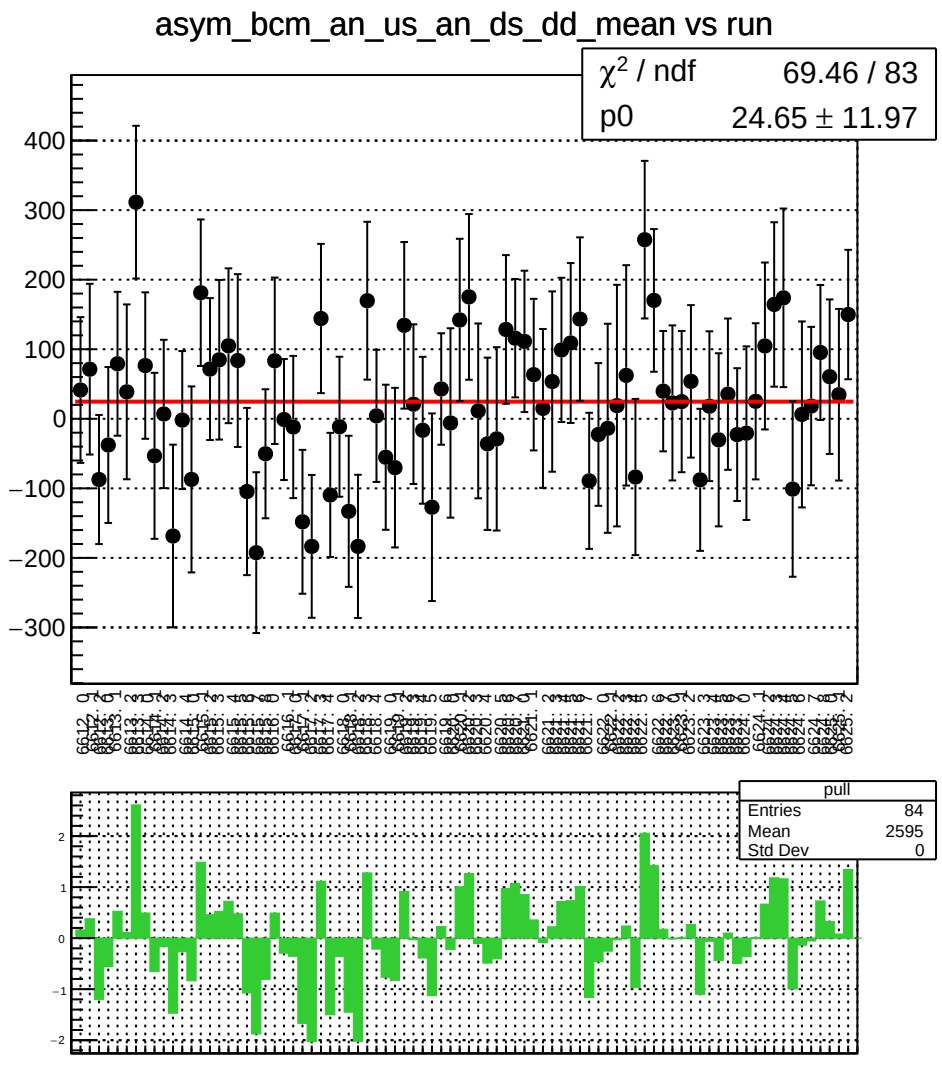

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 3.904e+04 / 83
p0 245.2 ± 0.1942
1400
1200
1000
800
600
400
200

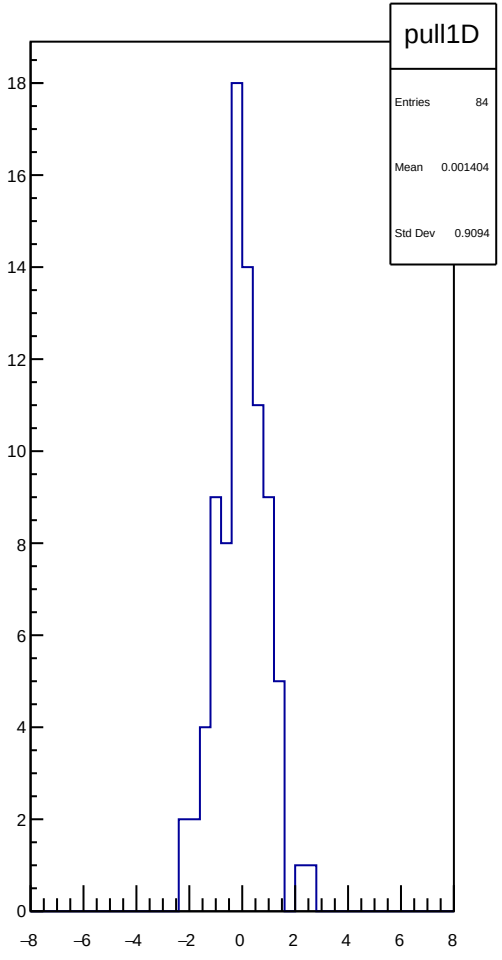

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 12.62 / 83
p0 105.3 ± 92.82
pull
Entries 84
Mean −77.33
Std Dev 0
pull1D
Entries 84
Mean 0.008442
Std Dev 0.3876

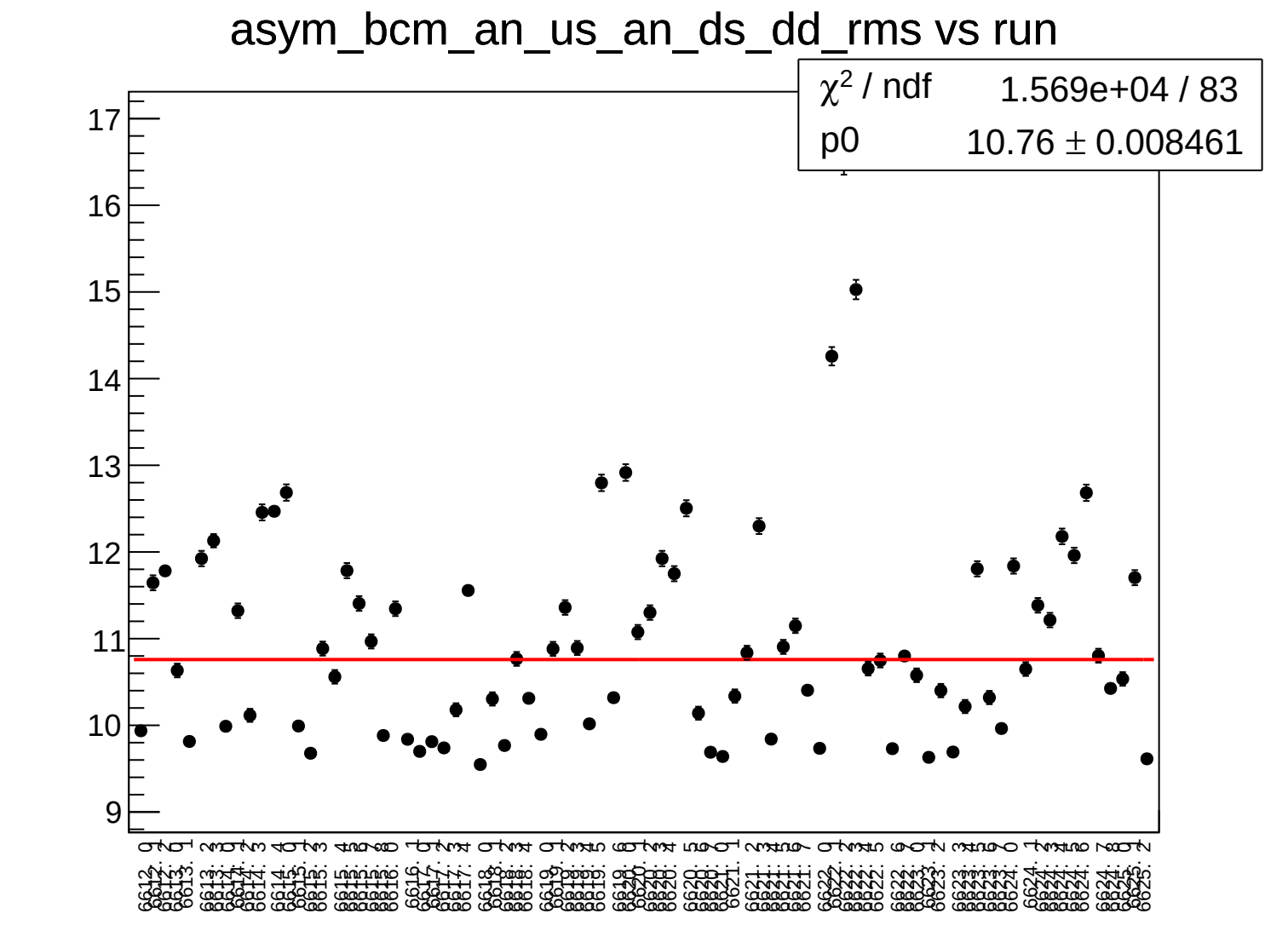

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 3.871e+04 / 83
p0 82.87 ± 0.06564
500
450
400
350
300
250
200
150
100
50

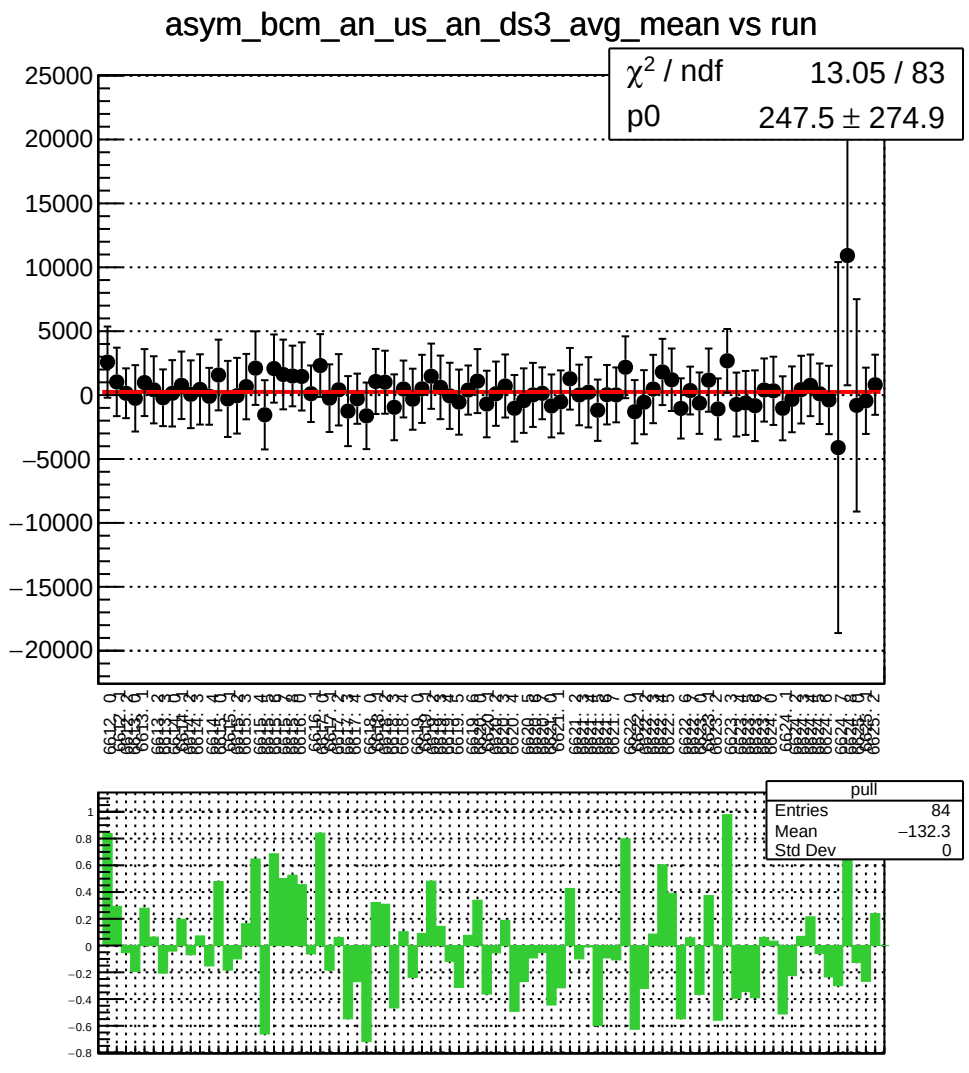

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 13.29 / 83
p0 244.1 ± 274.5
pull
Entries 84
Mean −132.1
Std Dev 0
pull1D
Entries 84
Mean 0.00838
Std Dev 0.3976

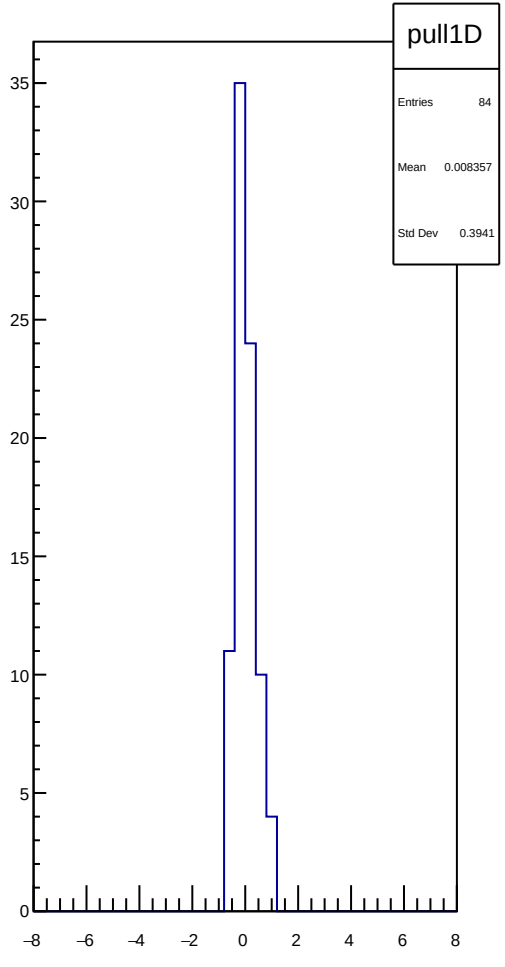

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 3.905e+04 / 83
p0 245 ± 0.1941
1400
1200
1000
800
600
400
200

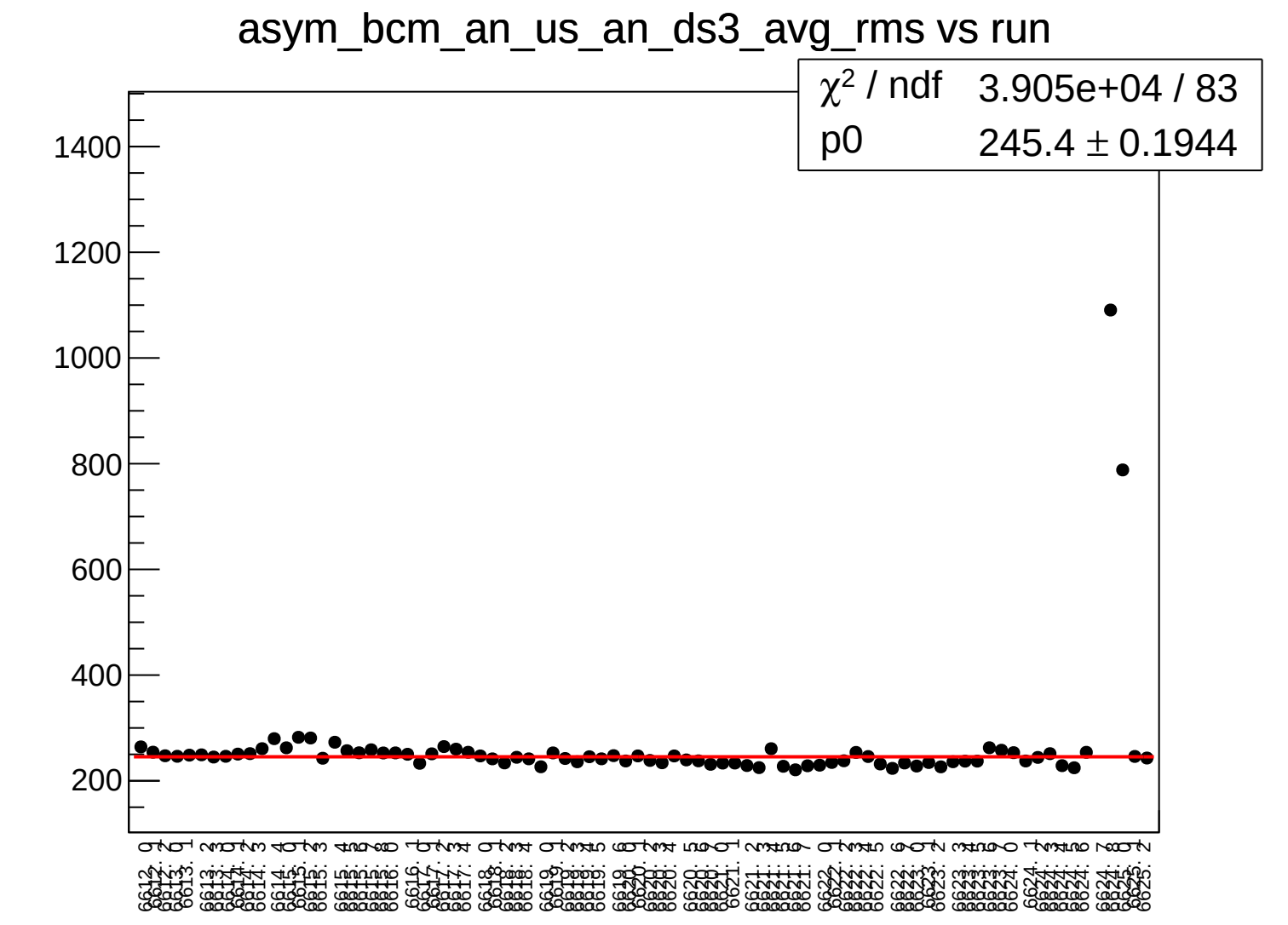

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 69.46 / 83
p0 24.65 ± 11.97
pull
Entries 84
Mean 2595
Std Dev 0

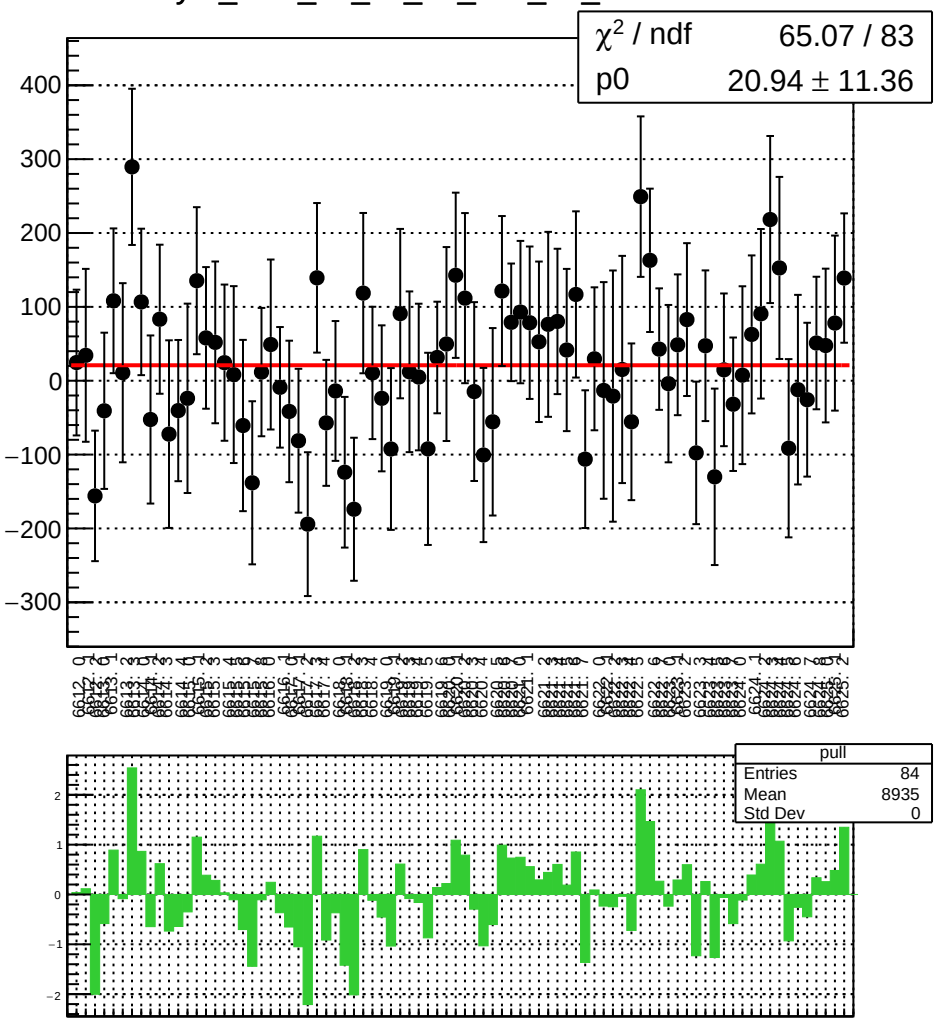

pull1D
Entries 84
Mean 0.001404
Std Dev 0.9094

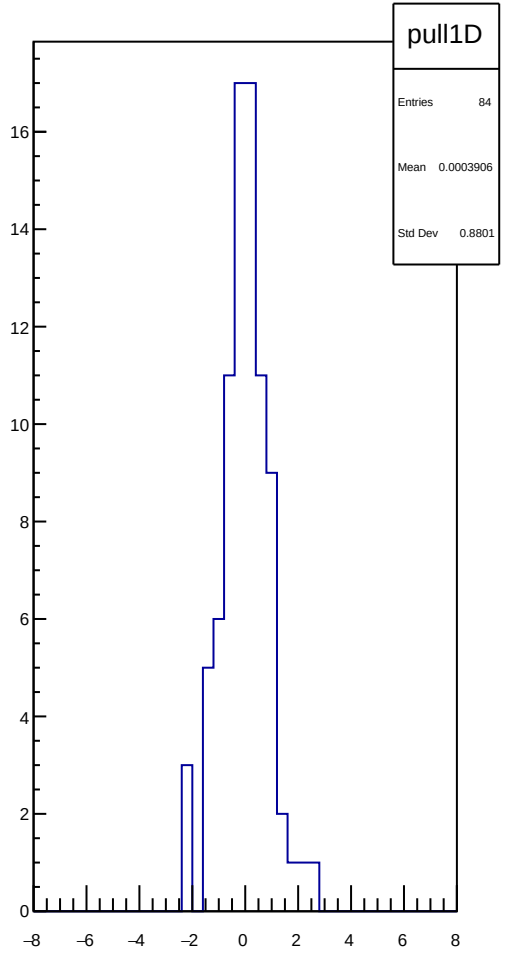

asym_bcm_an_us_an_ds_dd_rms vs run
χ^2 / ndf 1.569e+04 / 83
p0 10.76 ± 0.008461
17
16
15
14
13
12
11
10
9

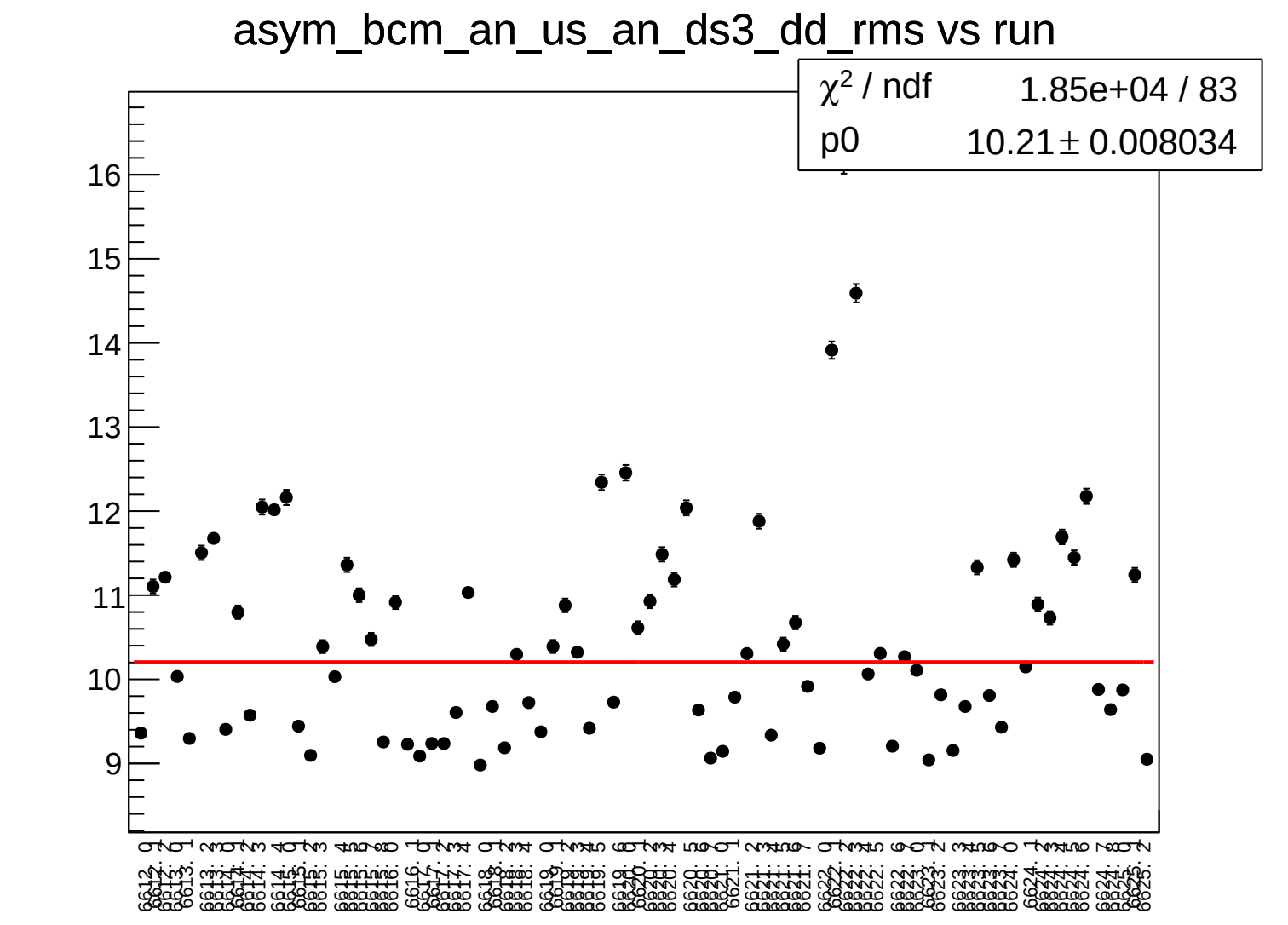

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 13.05 / 83
p0 247.5 ± 274.9
pull
Entries 84
Mean −132.3
Std Dev 0

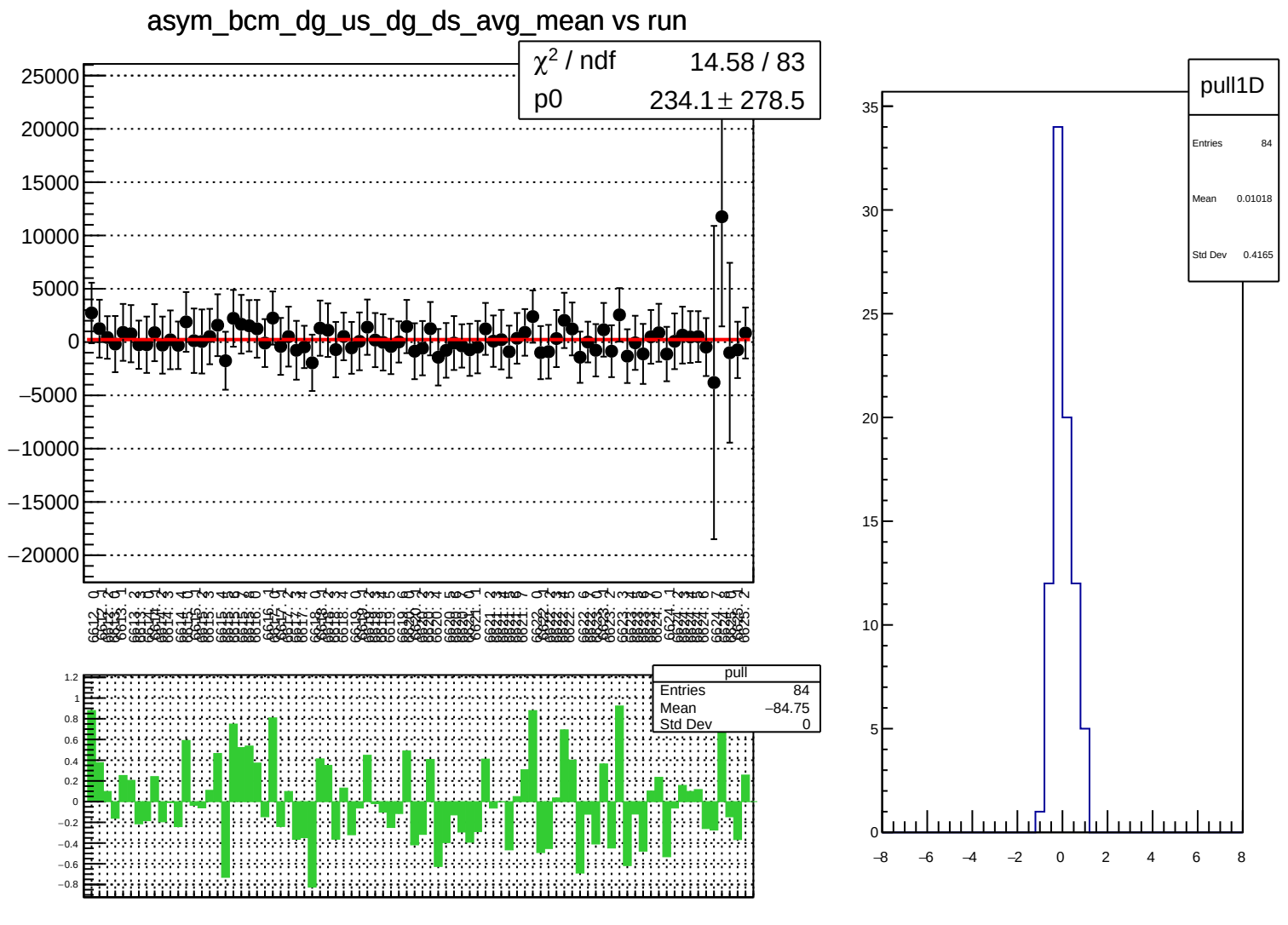

pull1D
Entries 84
Mean 0.008357
Std Dev 0.3941

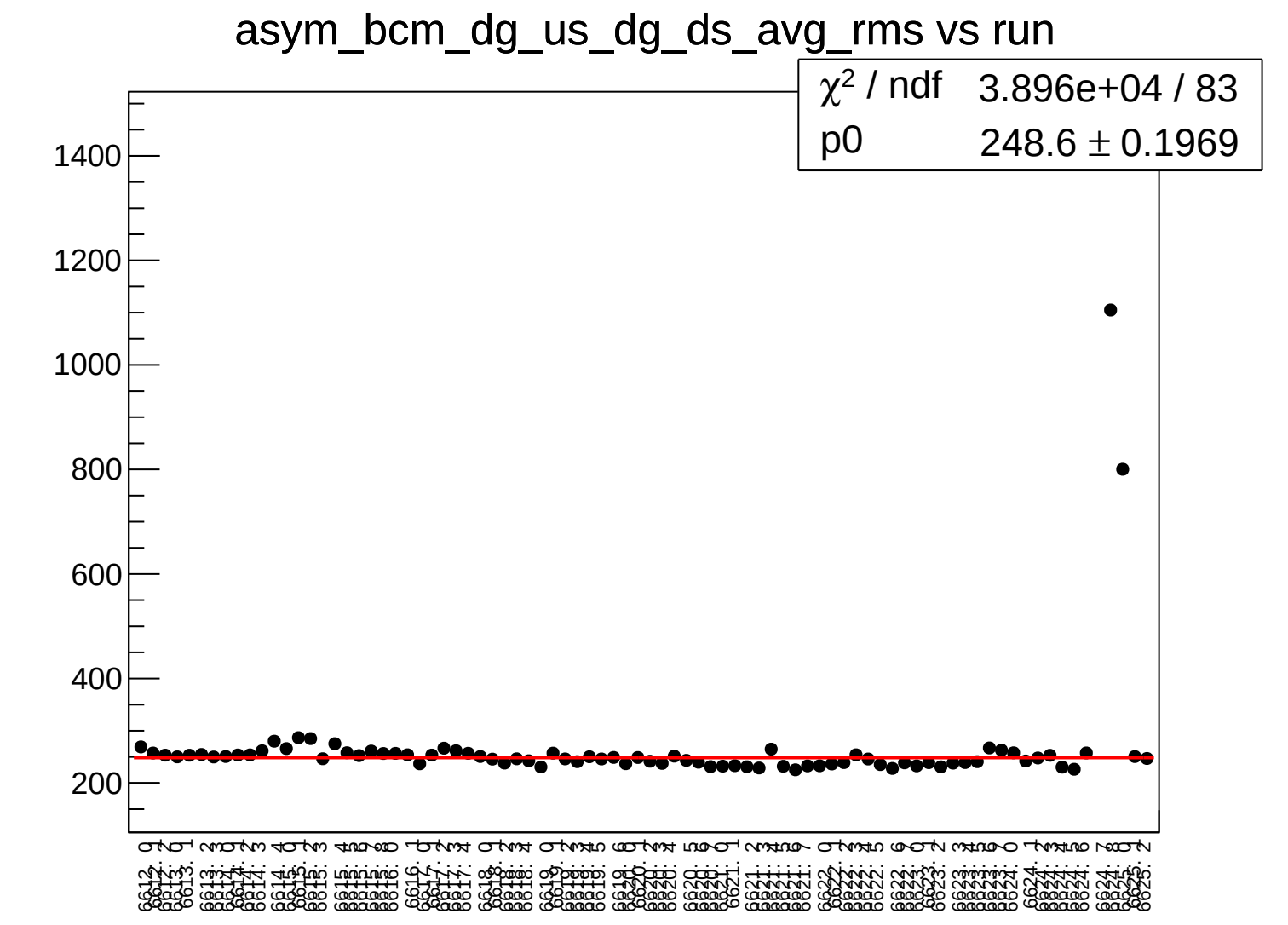

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 3.905e+04 / 83
p0 245.4 ± 0.1944
1400
1200
1000
800
600
400
200

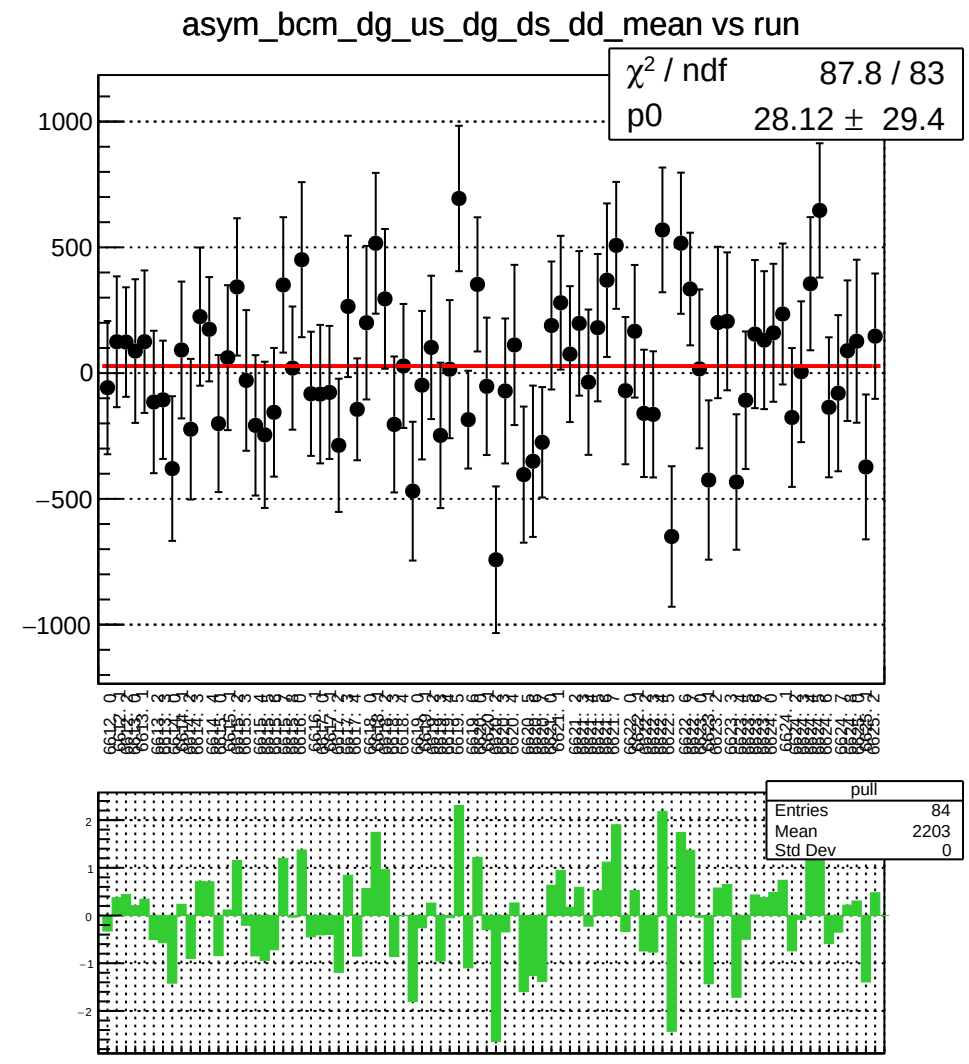

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 65.07 / 83
p0 20.94 ± 11.36
pull
Entries 84
Mean 8935
Std Dev 0

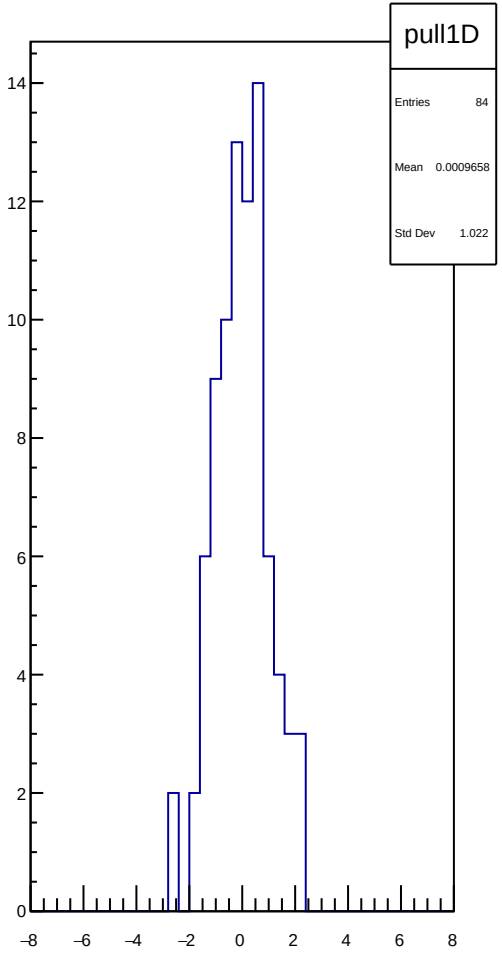

pull1D
Entries 84
Mean 0.0003906
Std Dev 0.8801

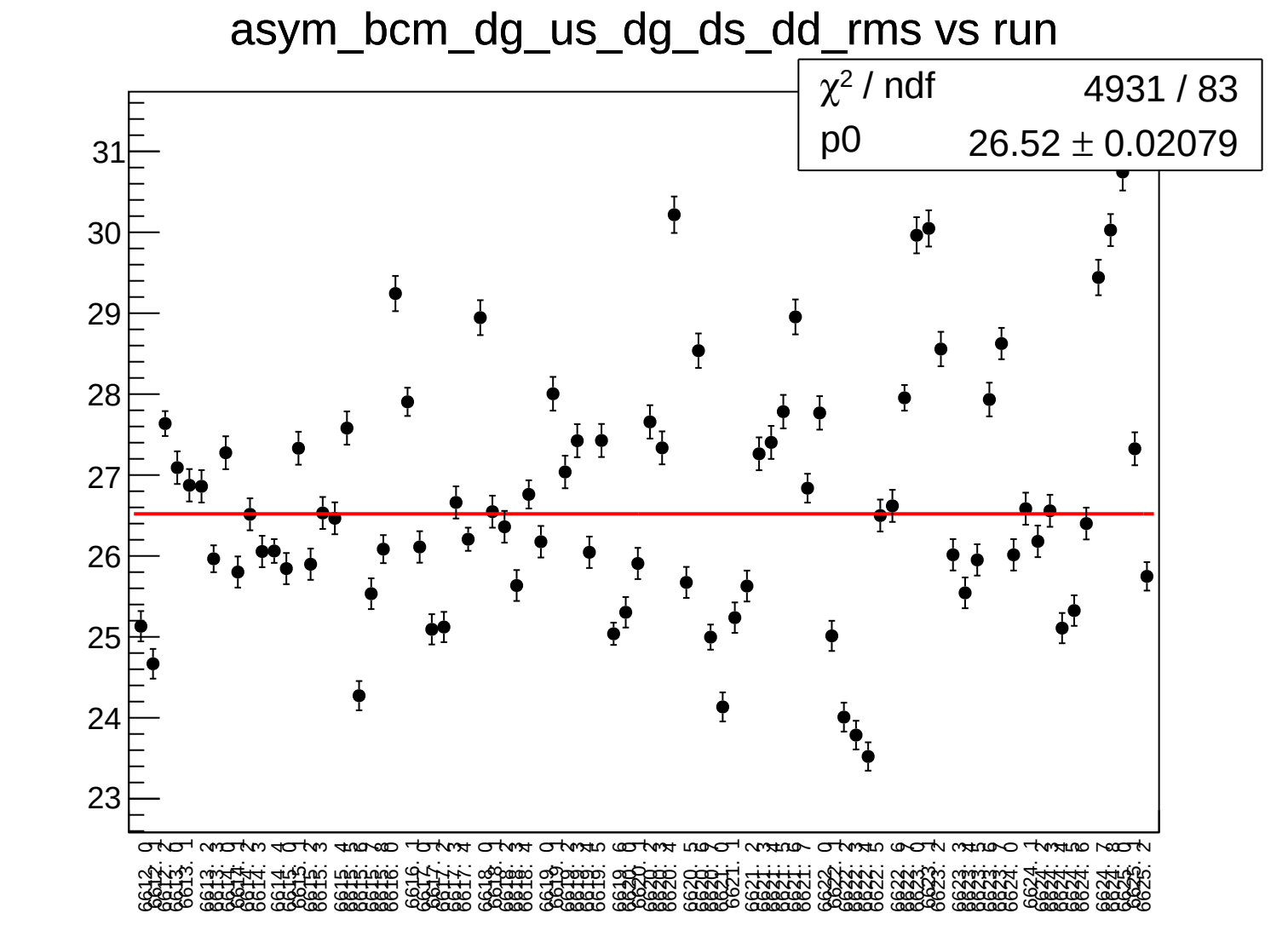

asym_bcm_an_us_an_ds3_dd_rms vs run
χ^2 / ndf 1.85e+04 / 83
p0 10.21 ± 0.008034
16
15
14
13
12
11
10
9

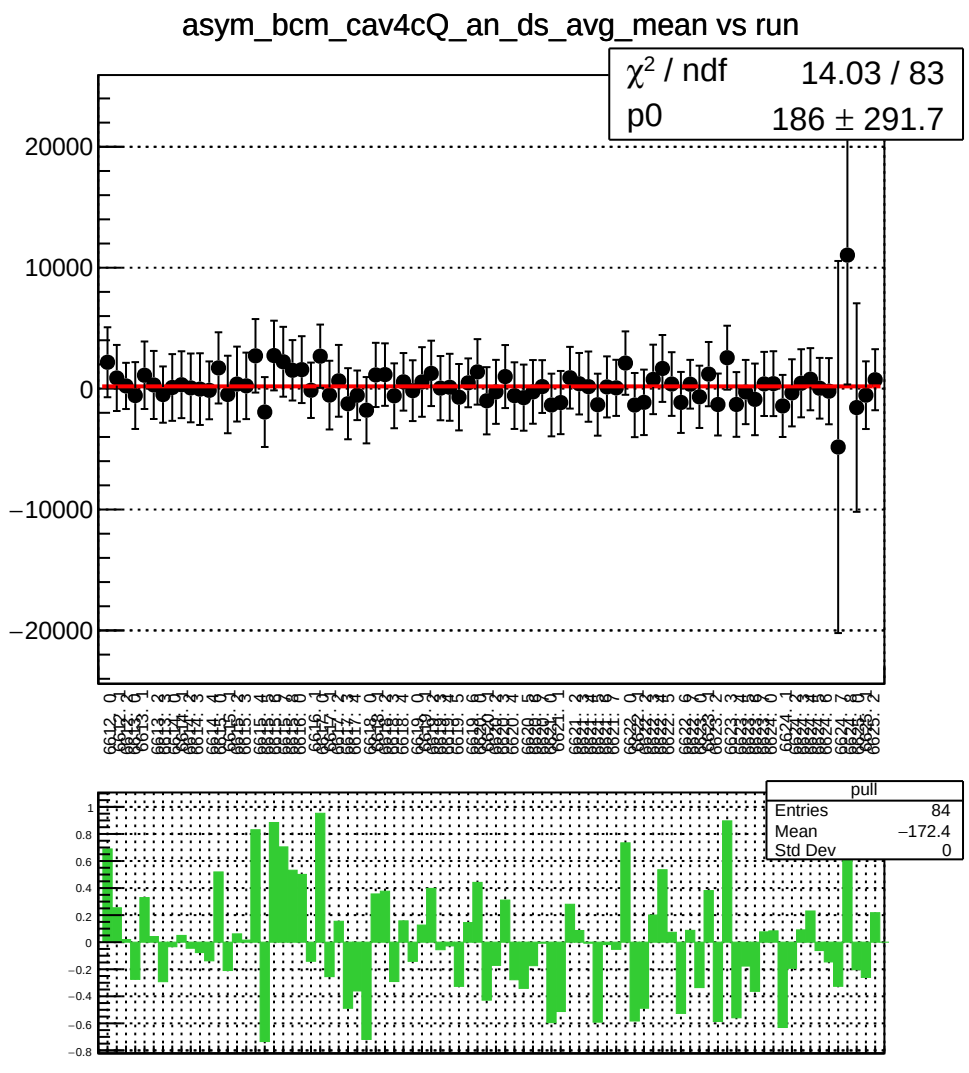

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 14.58 / 83
p0 234.1 ± 278.5
pull
Entries 84
Mean −84.75
Std Dev 0
pull1D
Entries 84
Mean 0.01018
Std Dev 0.4165

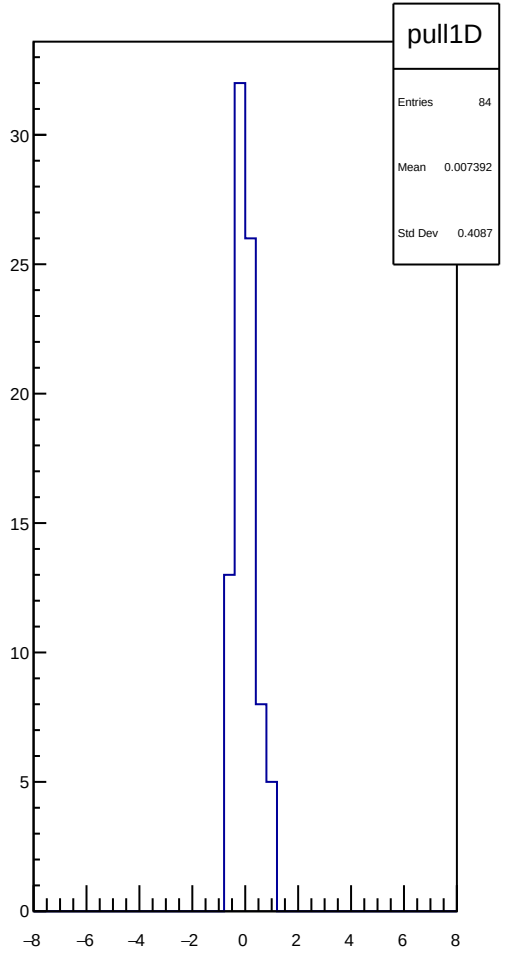

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 3.896e+04 / 83
p0 248.6 ± 0.1969
1400
1200
1000
800
600
400
200

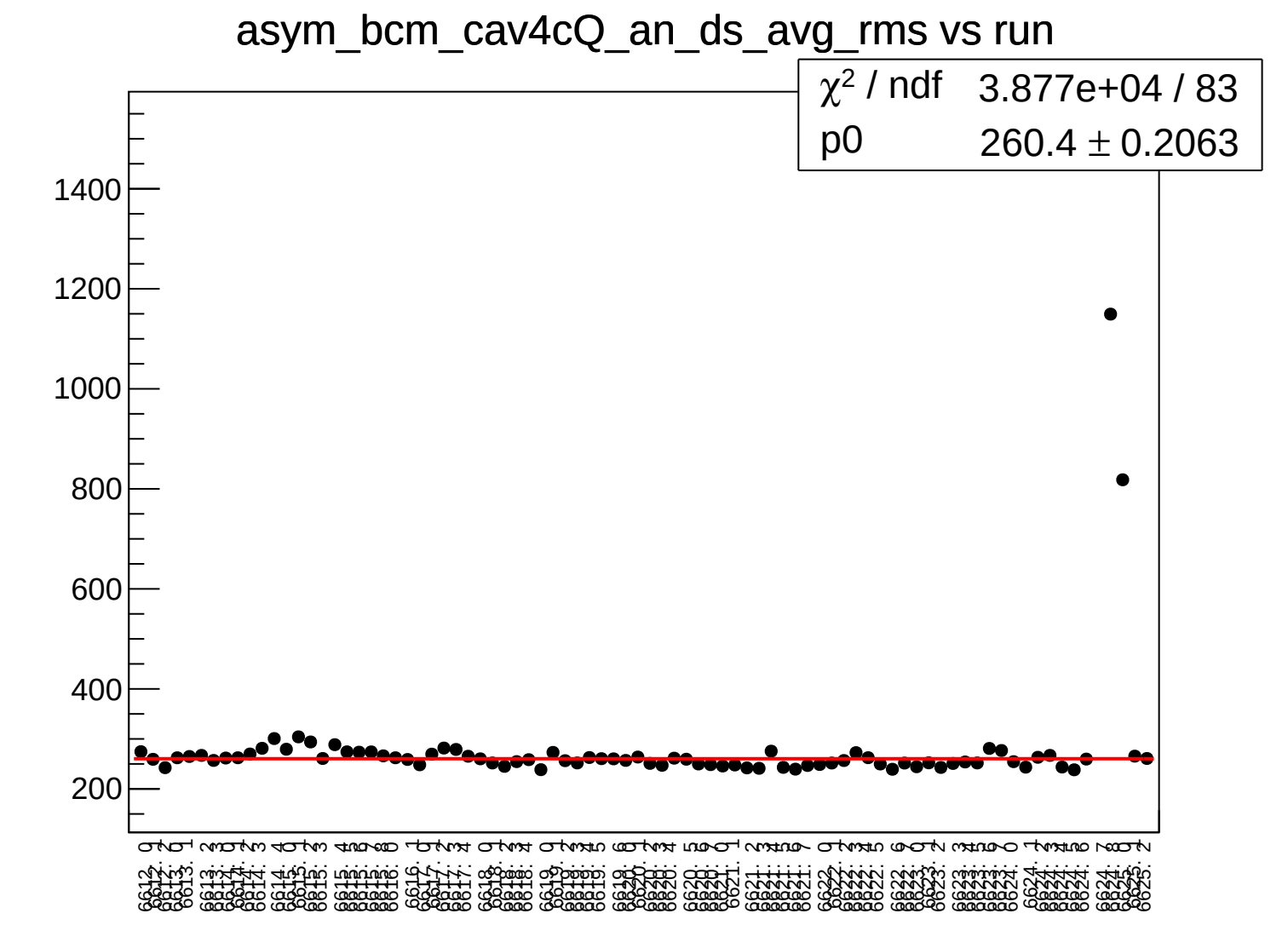

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 87.8 / 83
p0 28.12 ± 29.4
1000
500
0
−500
−1000
pull
Entries 84
Mean 2203
Std Dev 0
2
1
0
−1
−2

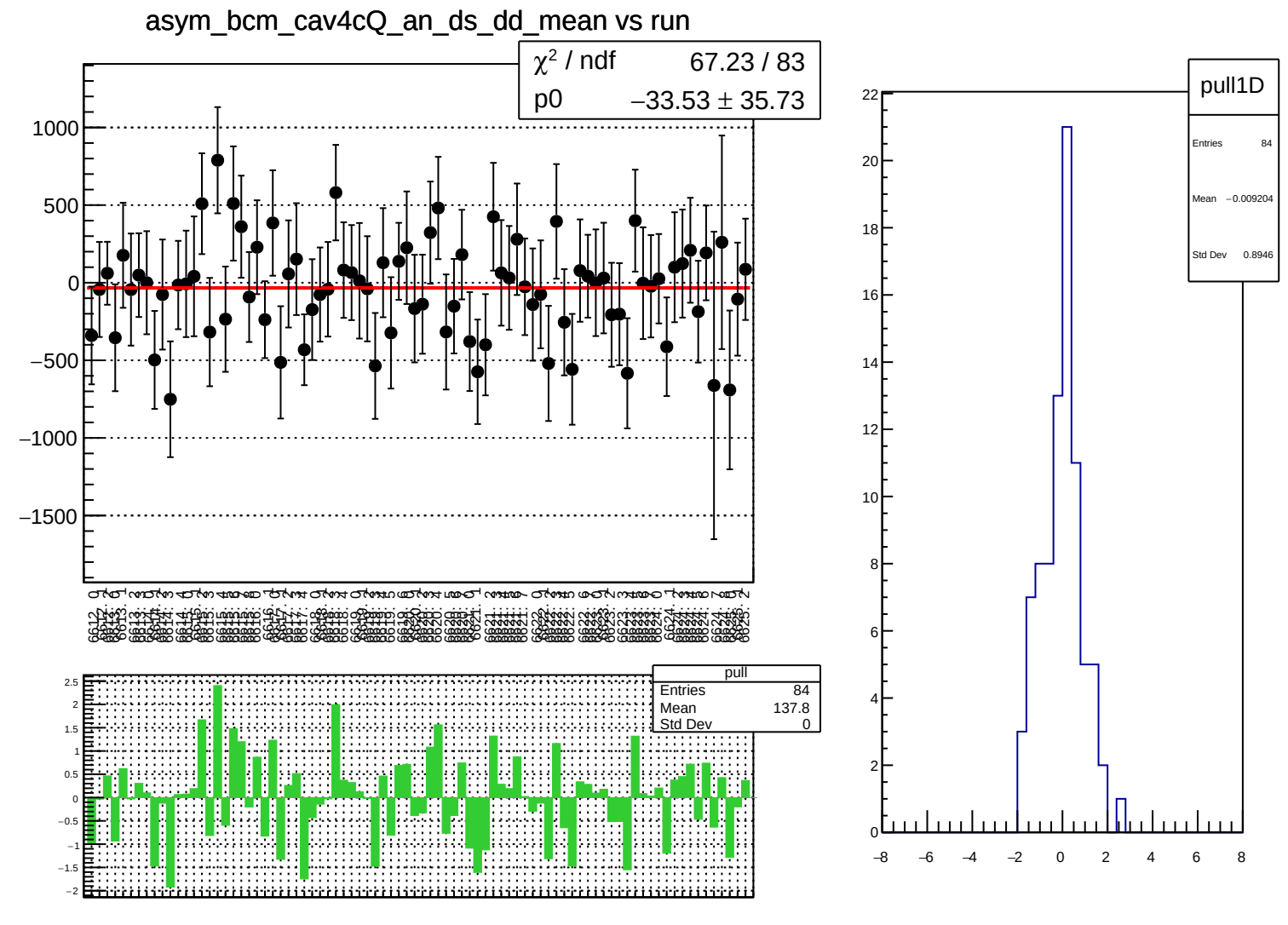

pull1D
Entries 84
Mean 0.0009658
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

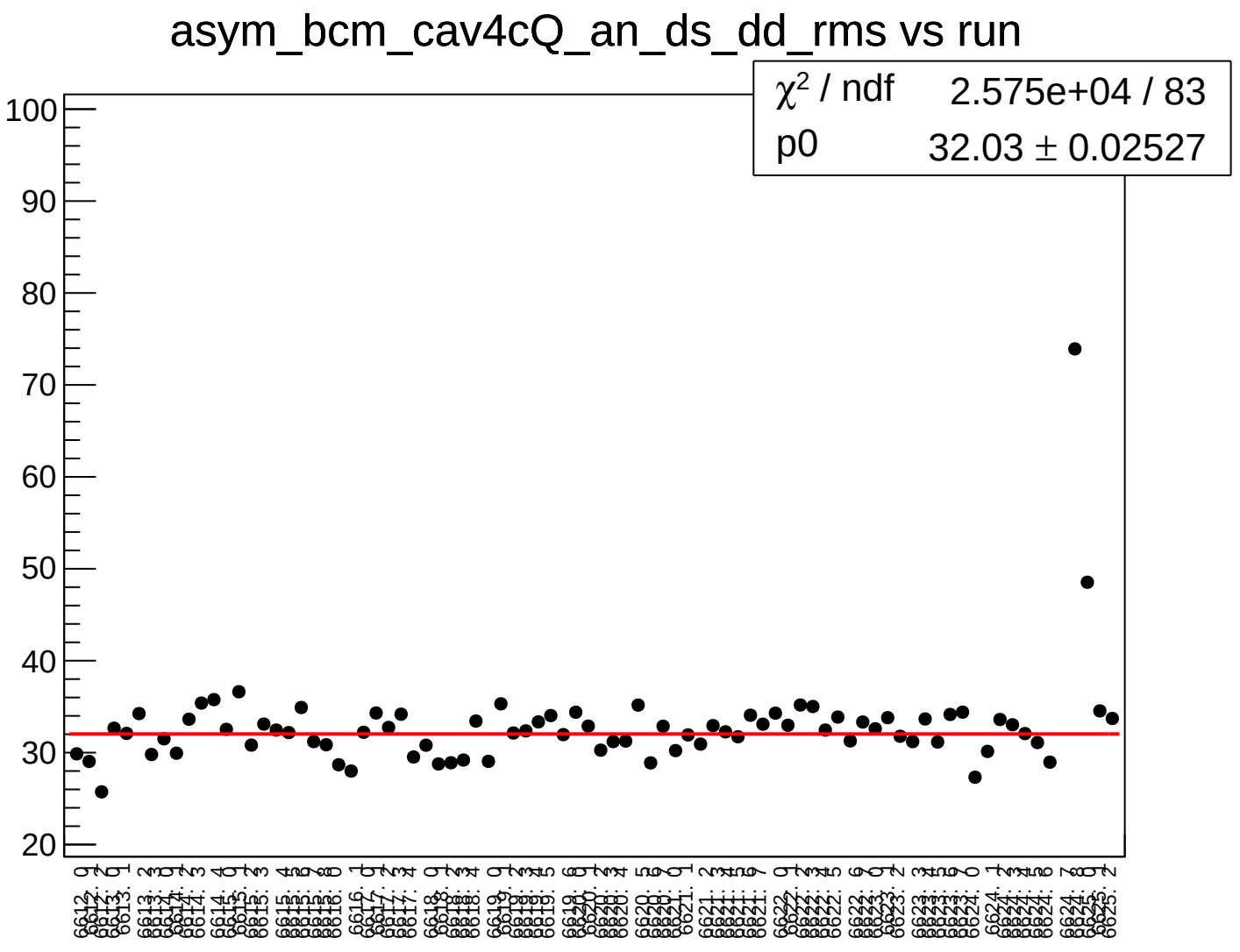

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 4931 / 83
p0 26.52 ± 0.02079
31
30
29
28
27
26
25
24
23

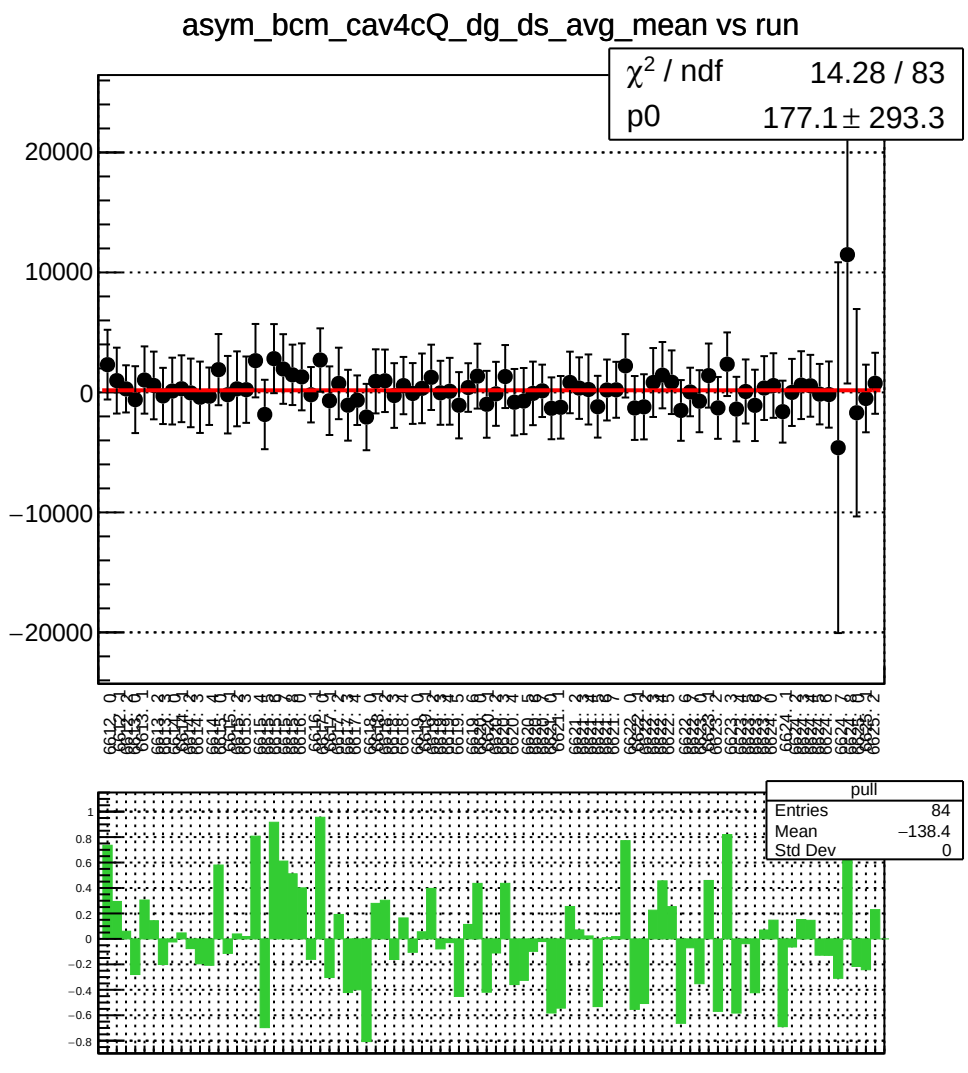

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 14.03 / 83
p0 186 ± 291.7
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −172.4
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

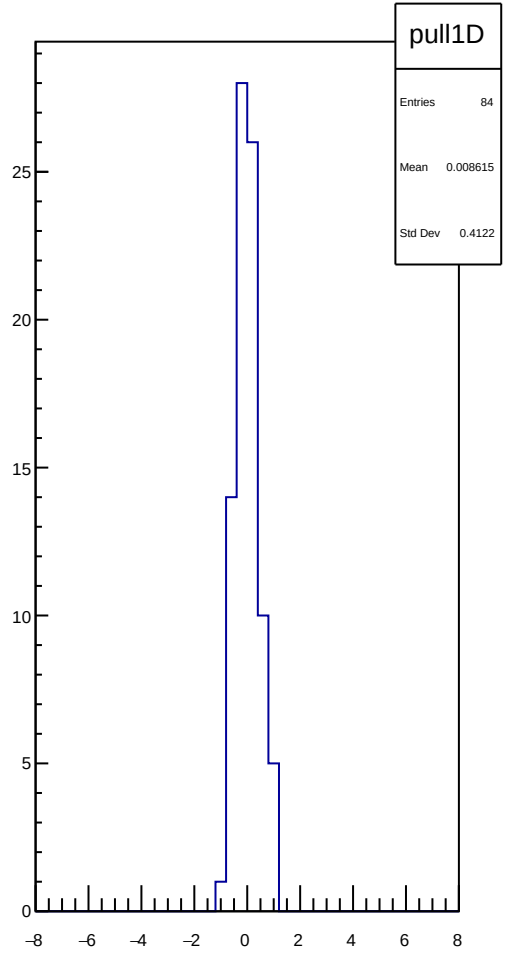

pull1D
Entries 84
Mean 0.007392
Std Dev 0.4087
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

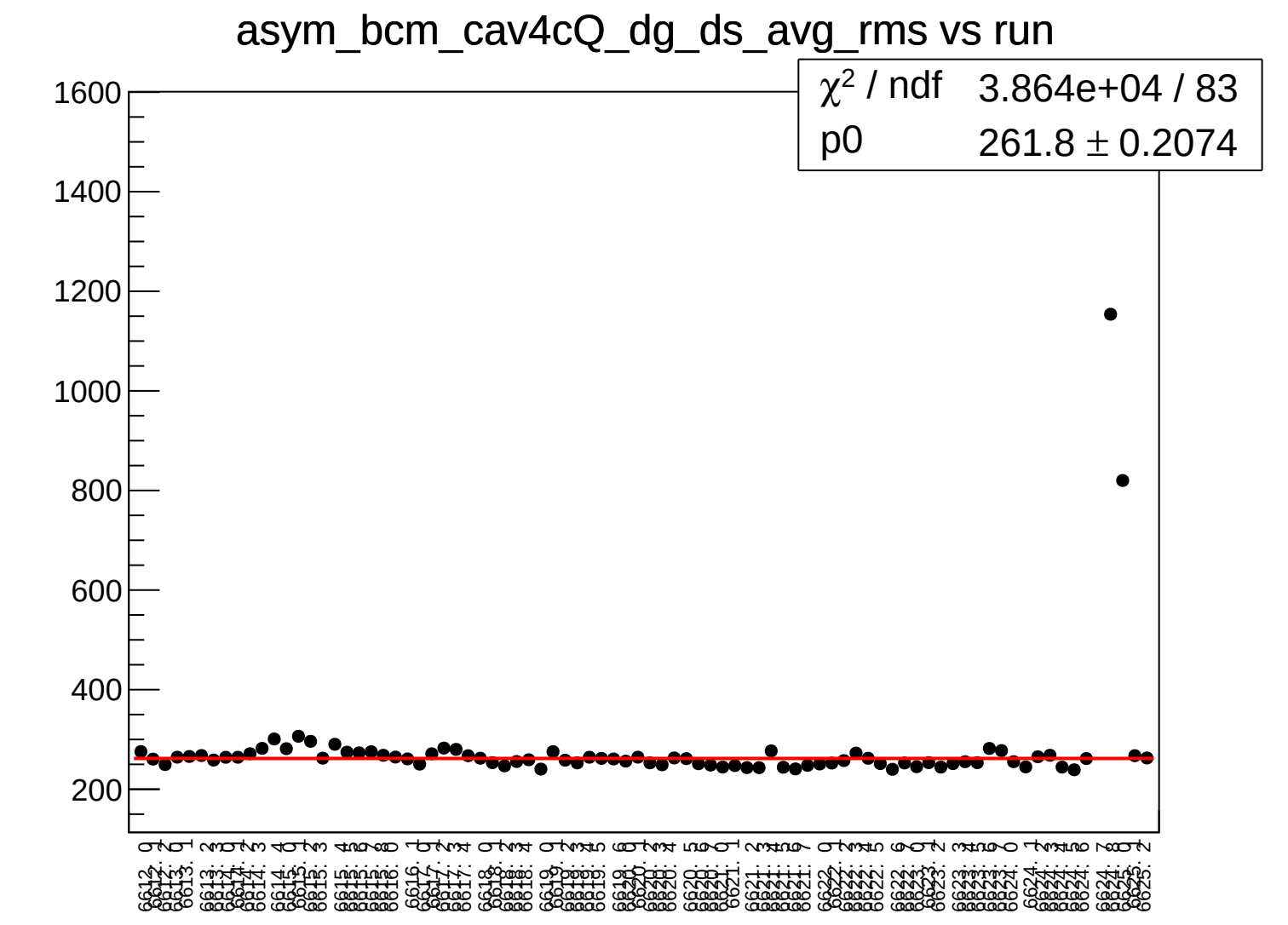

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 3.877e+04 / 83
p0 260.4 ± 0.2063
1400
1200
1000
800
600
400
200

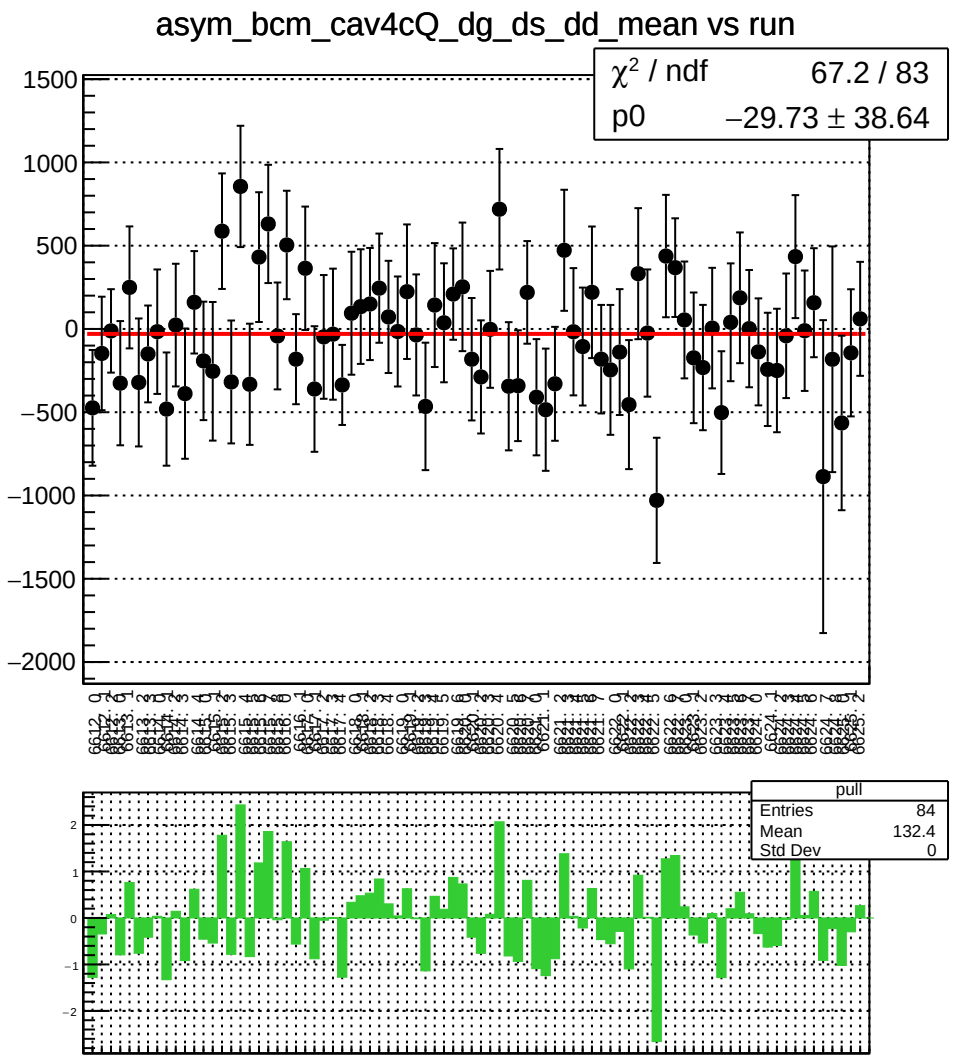

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 67.23 / 83
p0 −33.53 ± 35.73
pull
Entries 84
Mean 137.8
Std Dev 0
pull1D
Entries 84
Mean −0.009204
Std Dev 0.8946

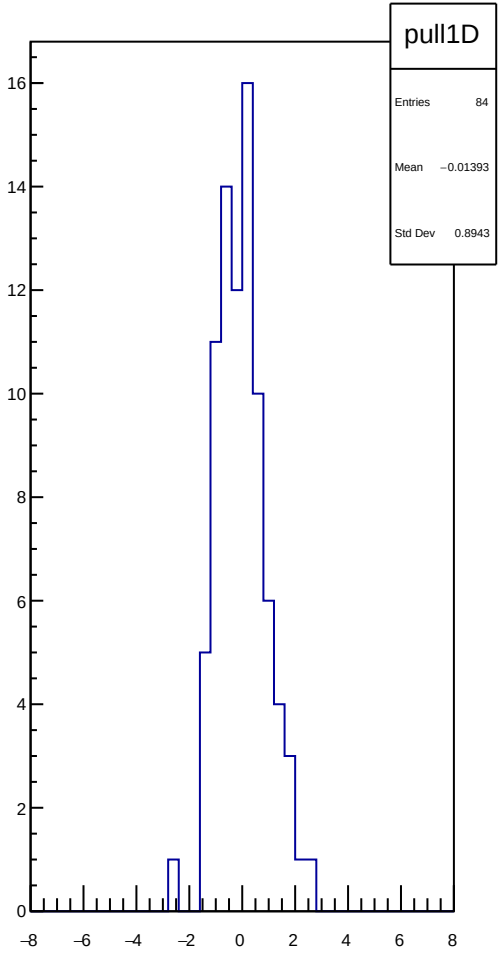

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2.575e+04 / 83
p0 32.03 ± 0.02527
100
90
80
70
60
50
40
30
20

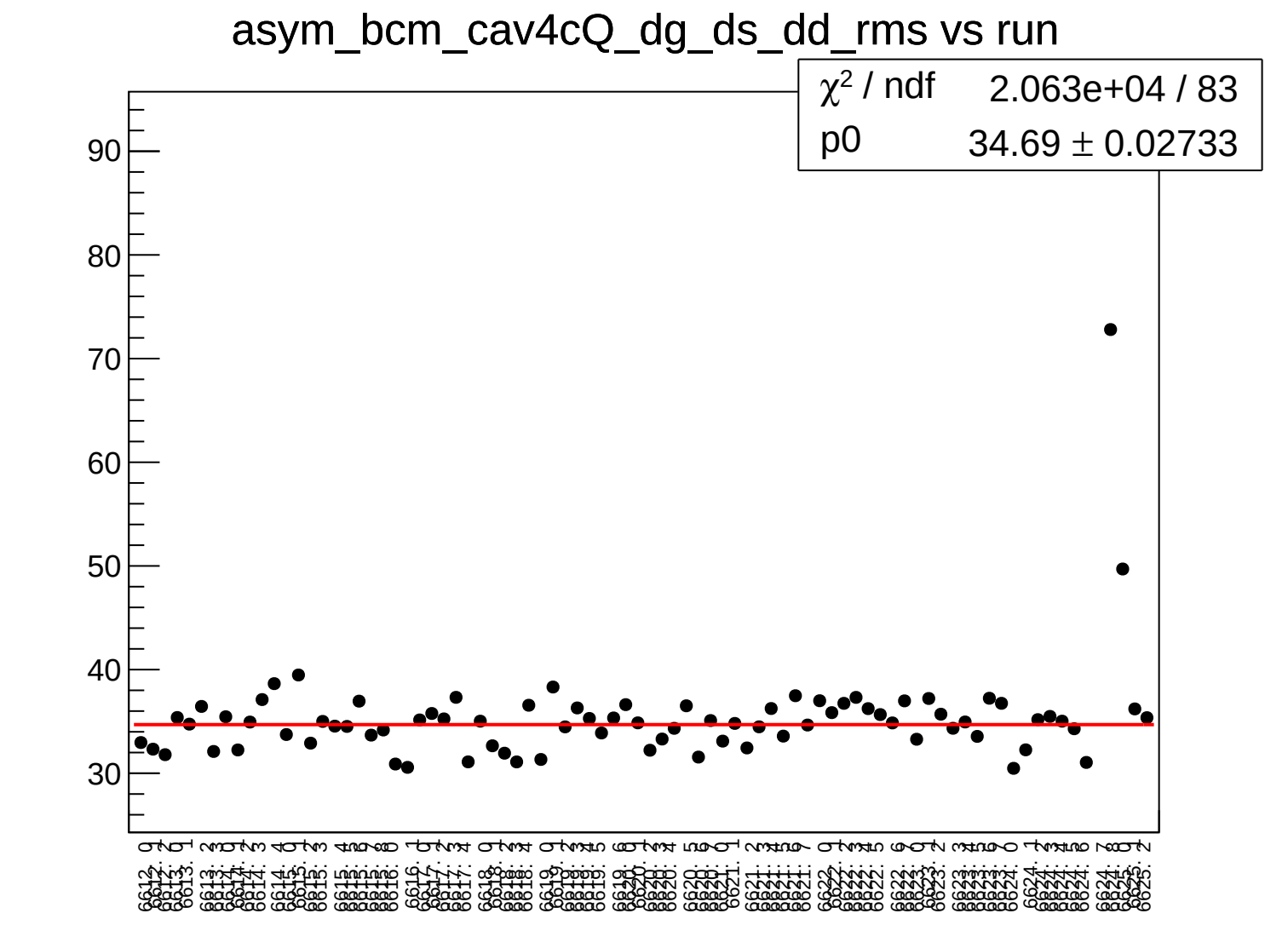

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 14.28 / 83
p0 177.1 ± 293.3
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −138.4
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

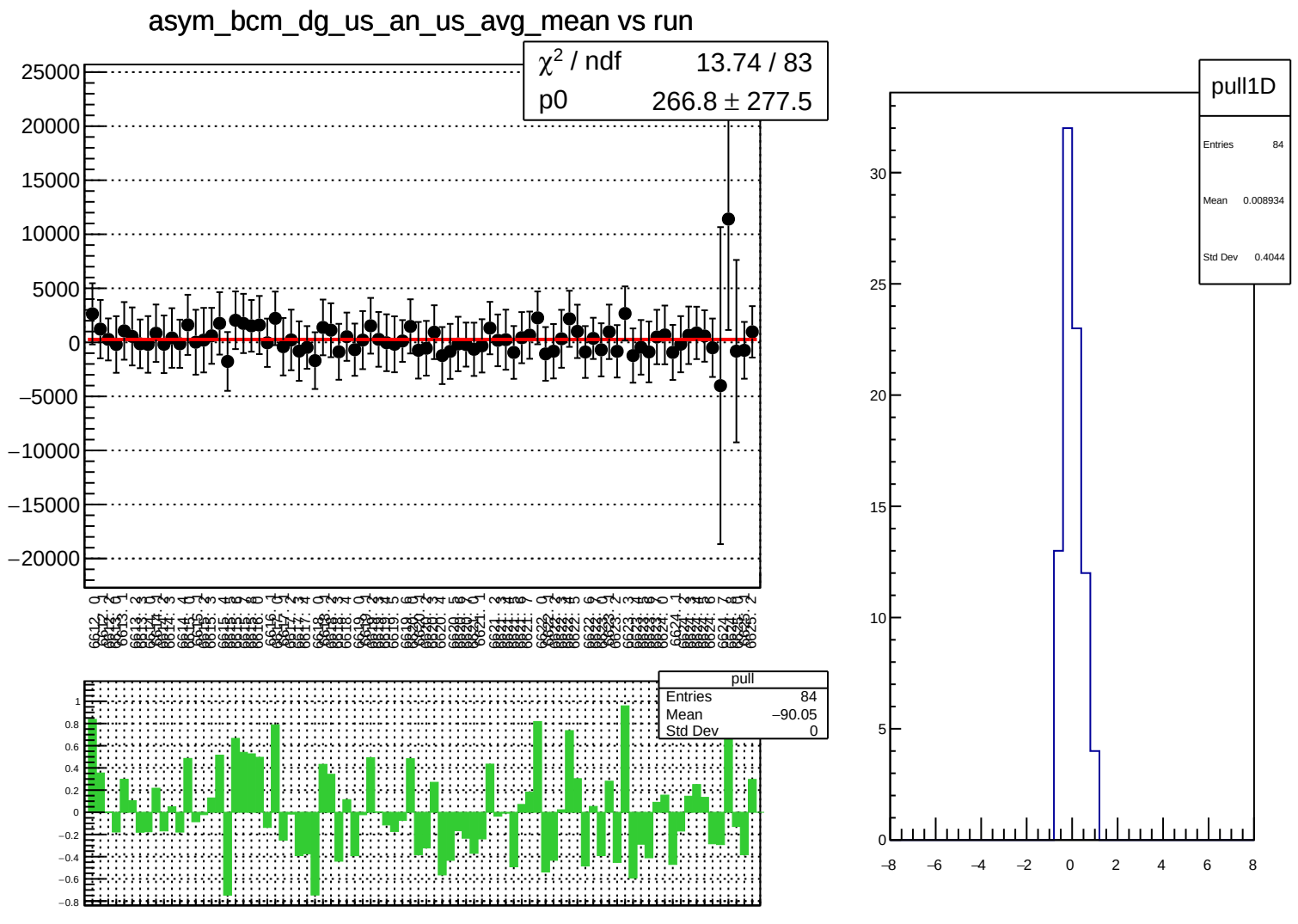

pull1D
Entries 84
Mean 0.008615
Std Dev 0.4122
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

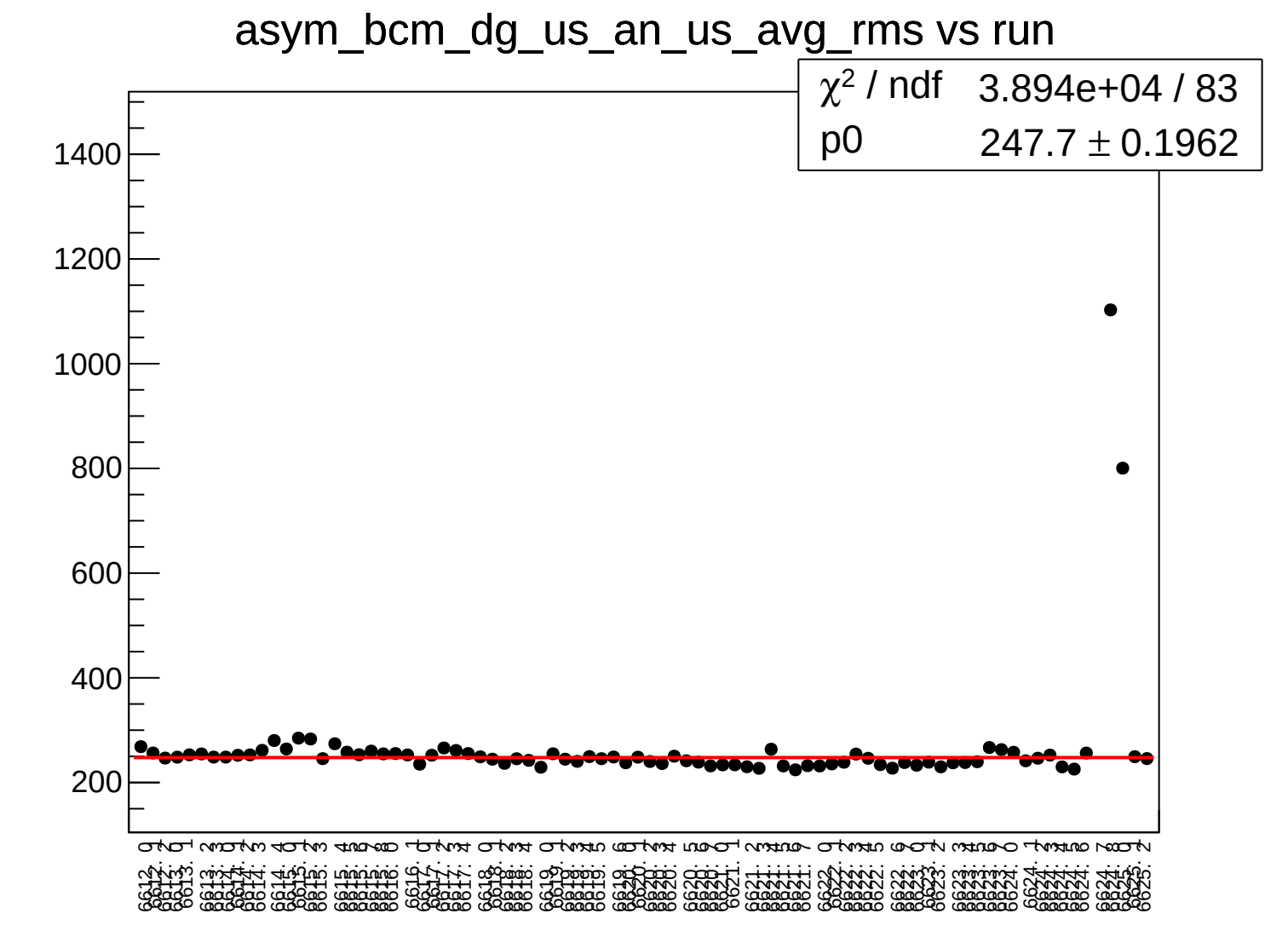

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 3.864e+04 / 83
p0 261.8 ± 0.2074
1600
1400
1200
1000
800
600
400
200

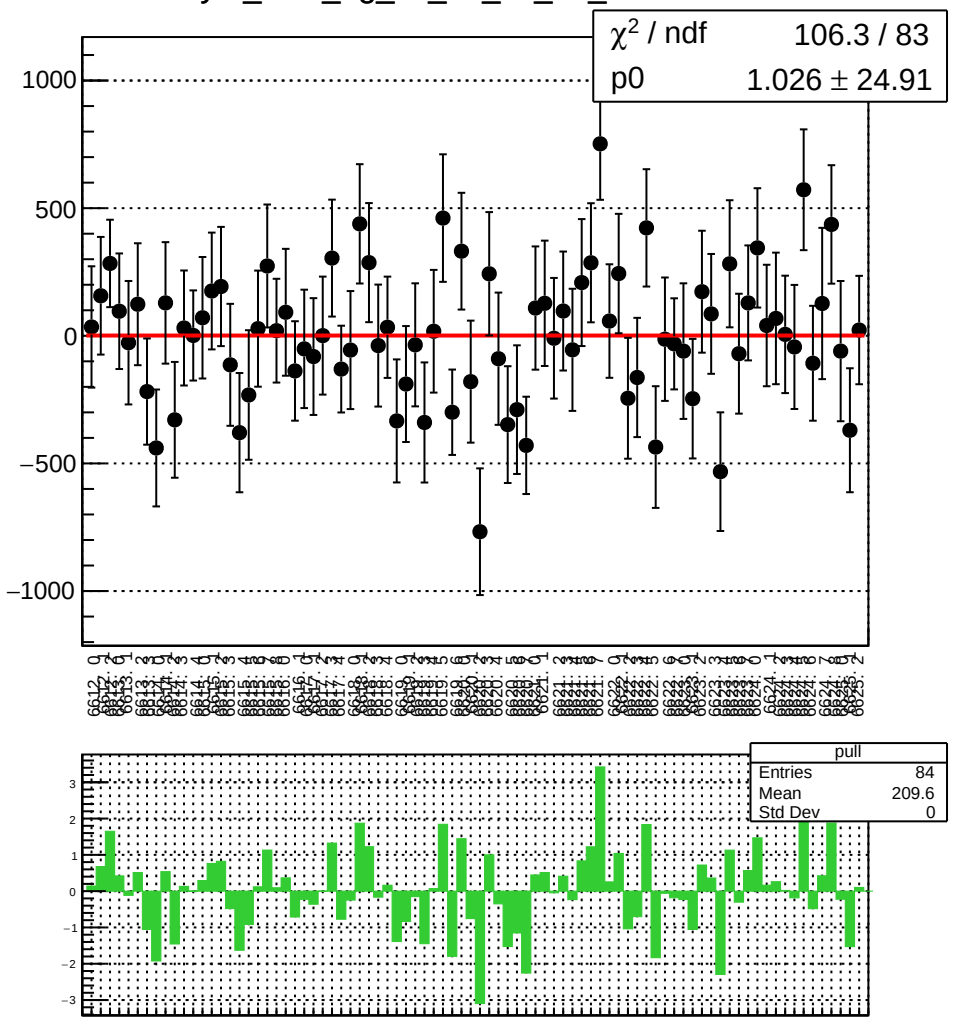

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 67.2 / 83
p0 −29.73 ± 38.64
pull
Entries 84
Mean 132.4
Std Dev 0

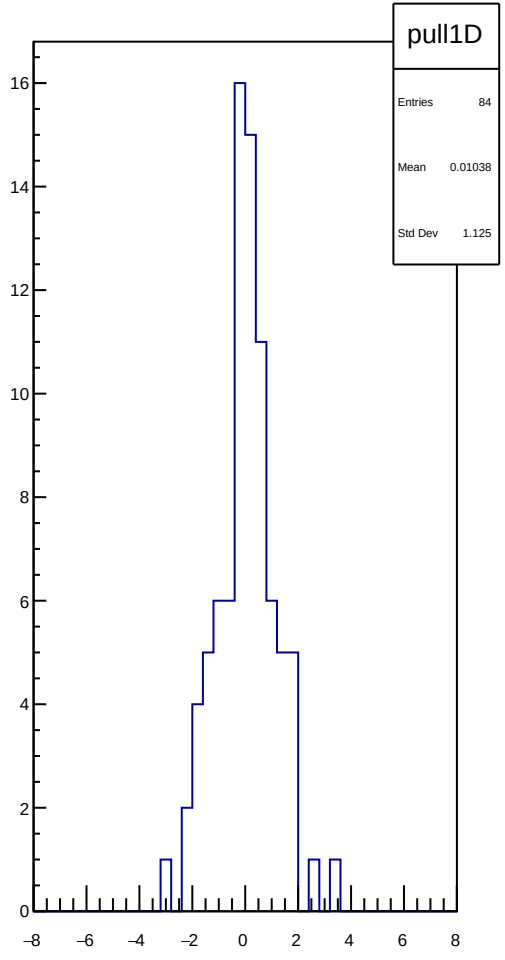

pull1D
Entries 84
Mean −0.01393
Std Dev 0.8943

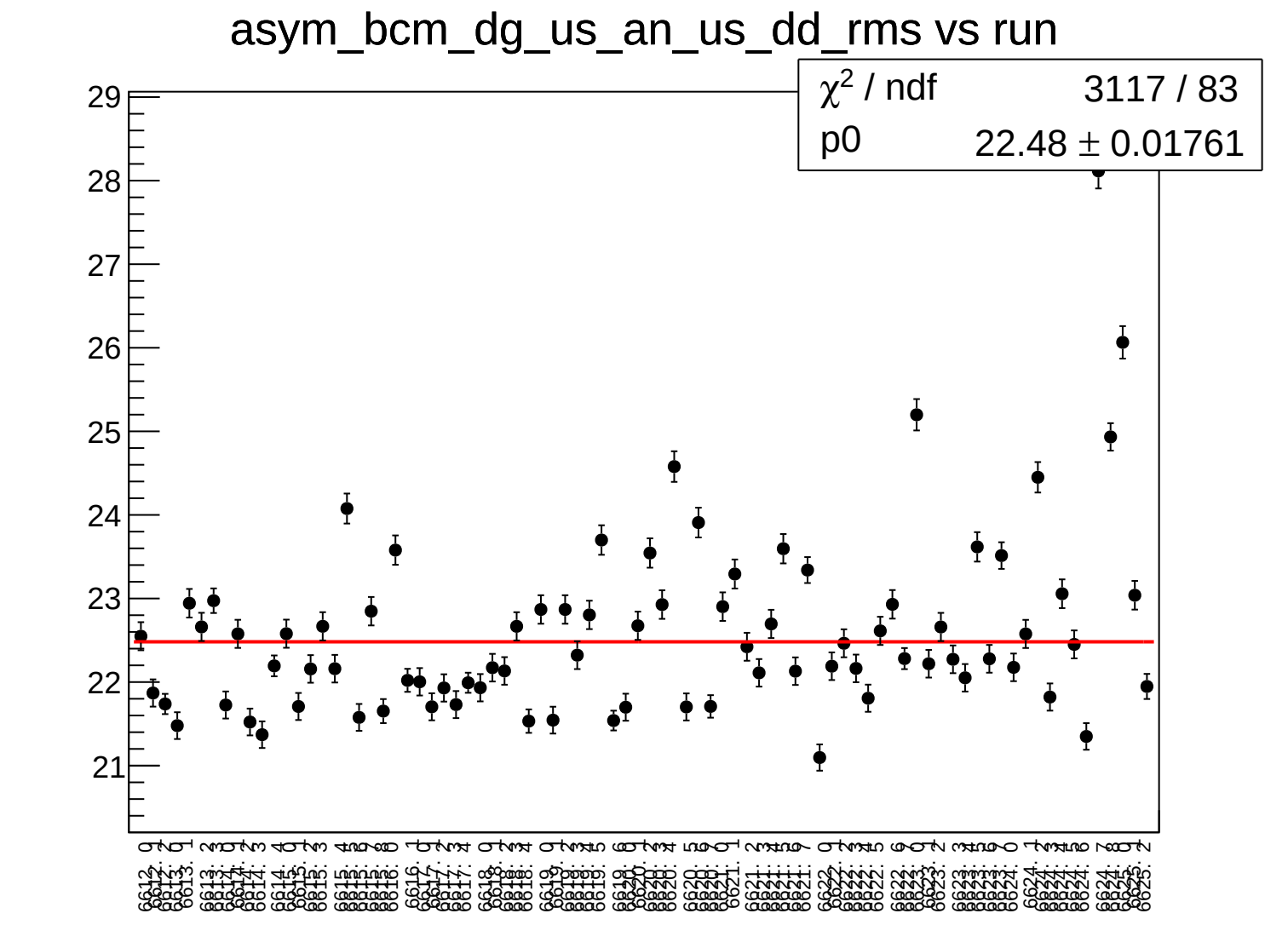

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2.063e+04 / 83
p0 34.69 ± 0.02733
90
80
70
60
50
40
30

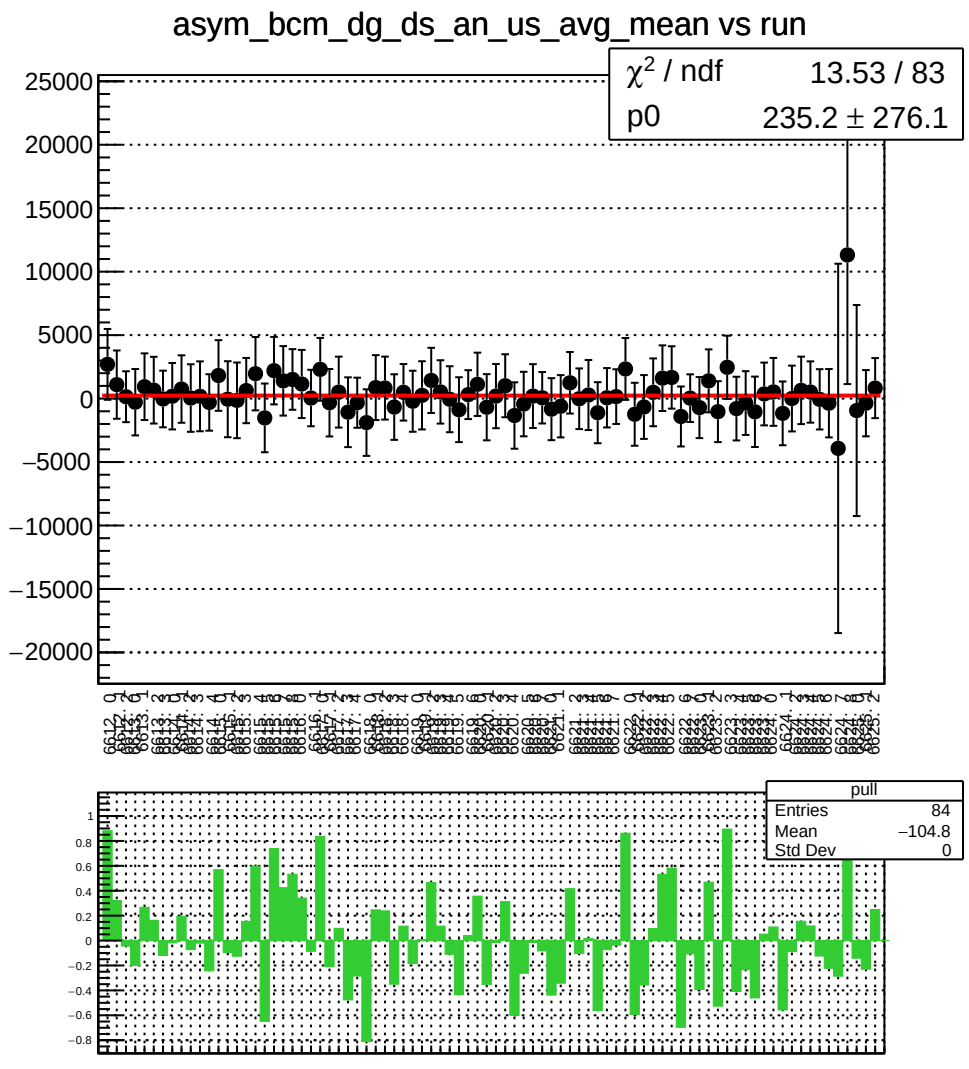

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 13.74 / 83
p0 266.8 ± 277.5
pull
Entries 84
Mean −90.05
Std Dev 0
pull1D
Entries 84
Mean 0.008934
Std Dev 0.4044

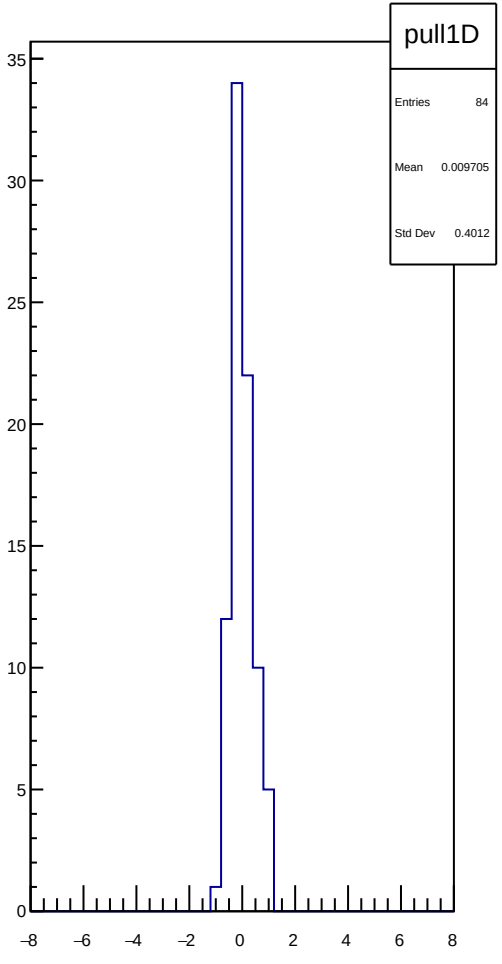

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 3.894e+04 / 83
p0 247.7 ± 0.1962
1400
1200
1000
800
600
400
200

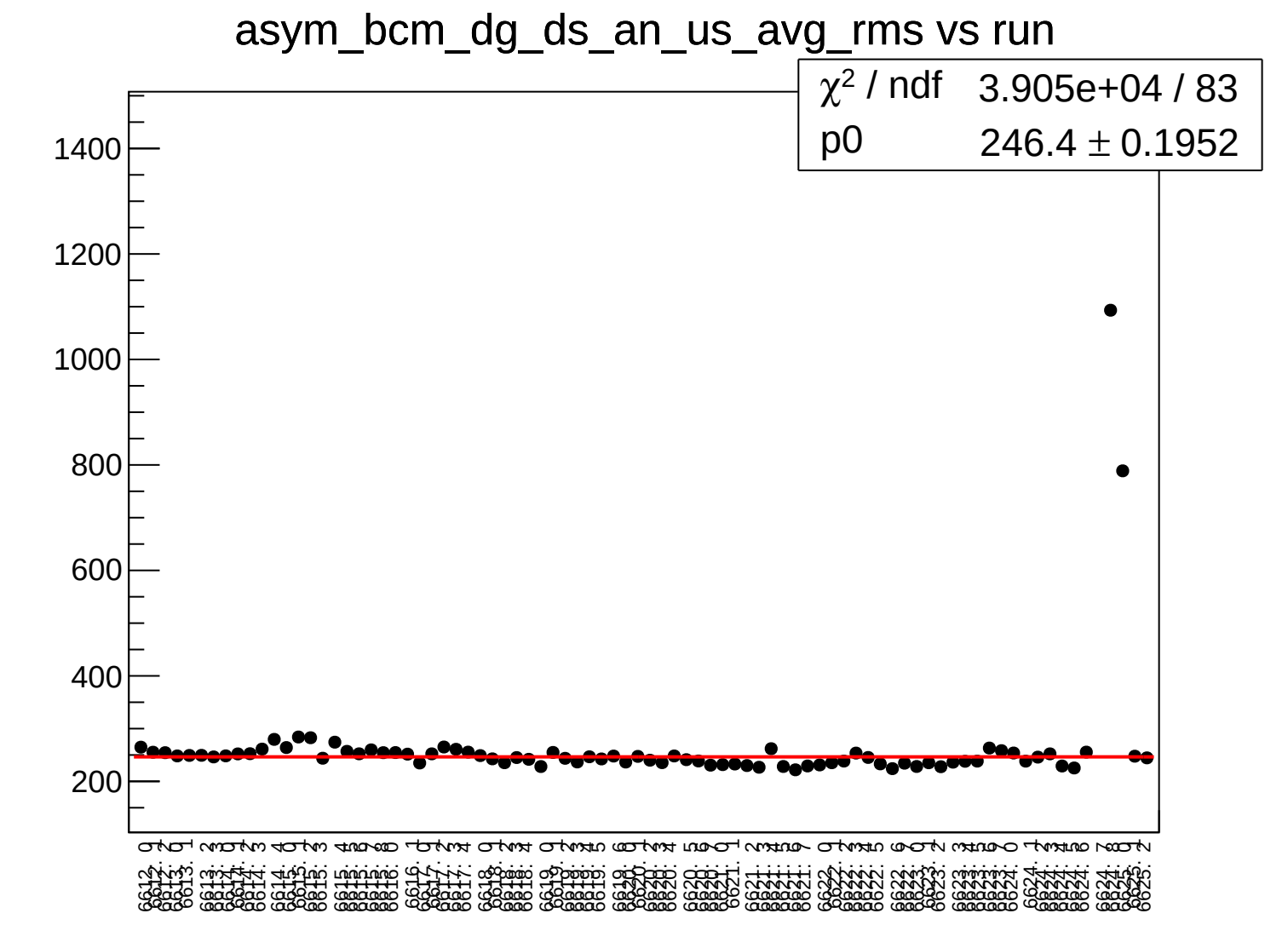

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 106.3 / 83
p0 1.026 ± 24.91
1000
500
0
−500
−1000
pull
Entries 84
Mean 209.6
Std Dev 0
3
2
1
0
−1
−2
−3

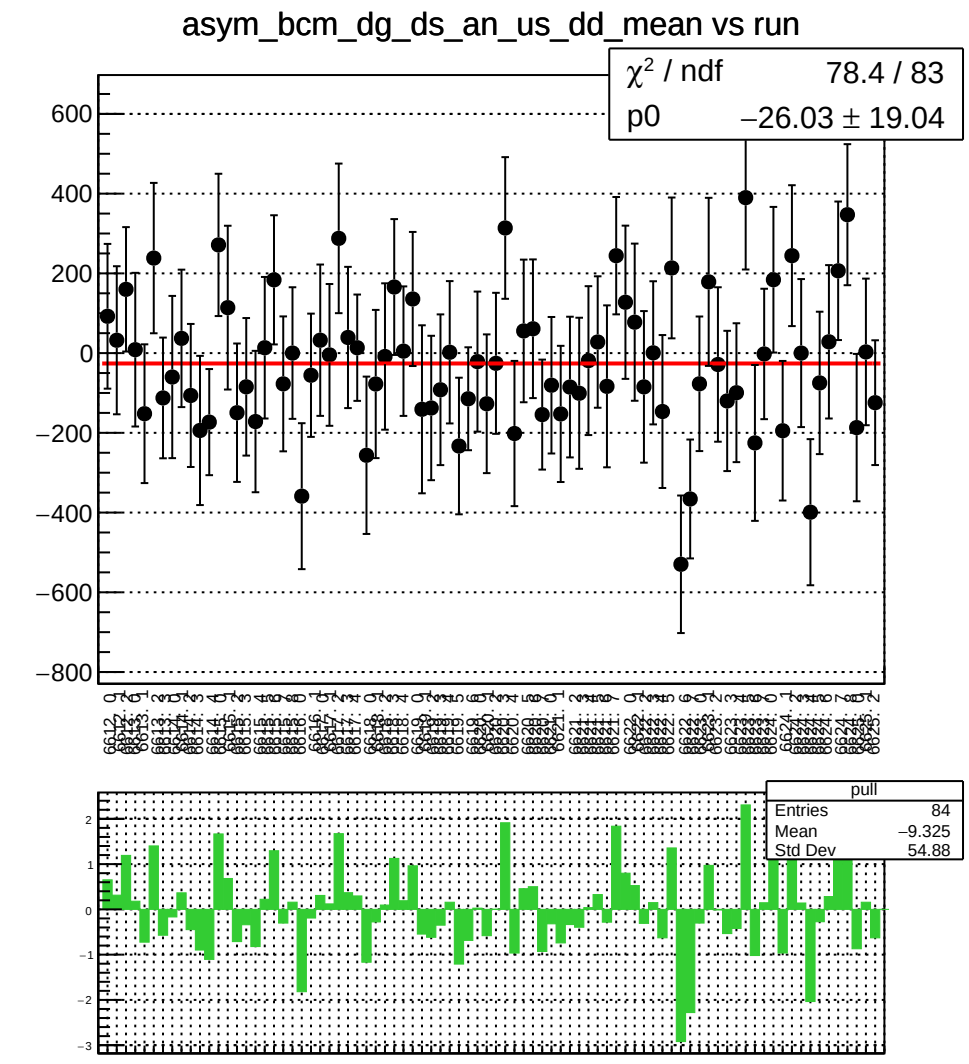

pull1D
Entries 84
Mean 0.01038
Std Dev 1.125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

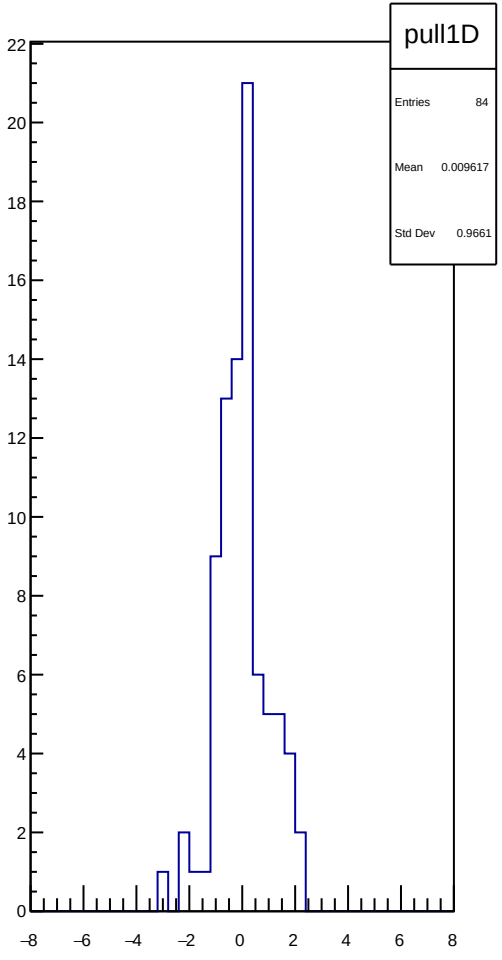

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 3117 / 83
p0 22.48 ± 0.01761
29
28
27
26
25
24
23
22
21

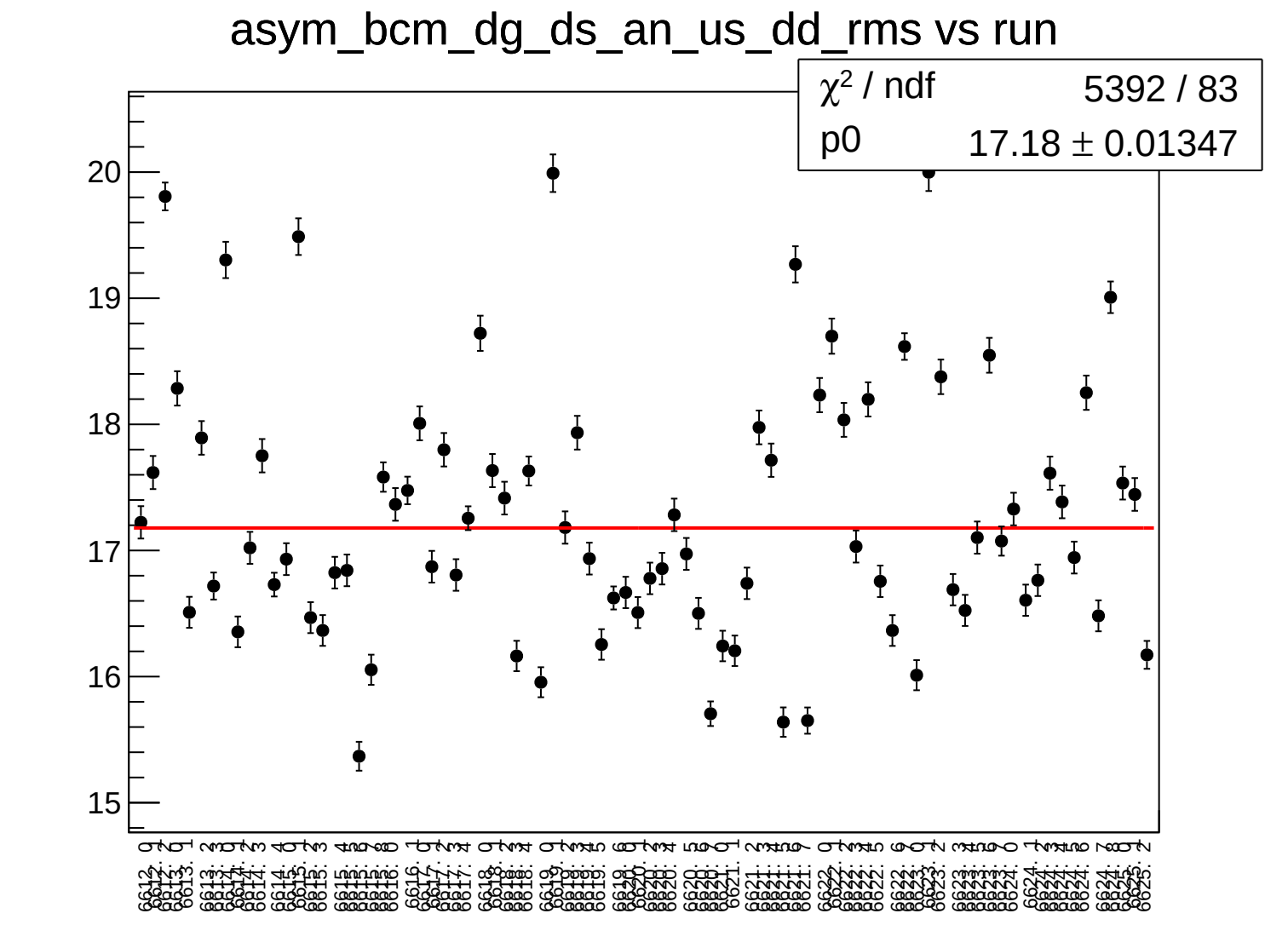

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 13.53 / 83
p0 235.2 ± 276.1
pull
Entries 84
Mean −104.8
Std Dev 0

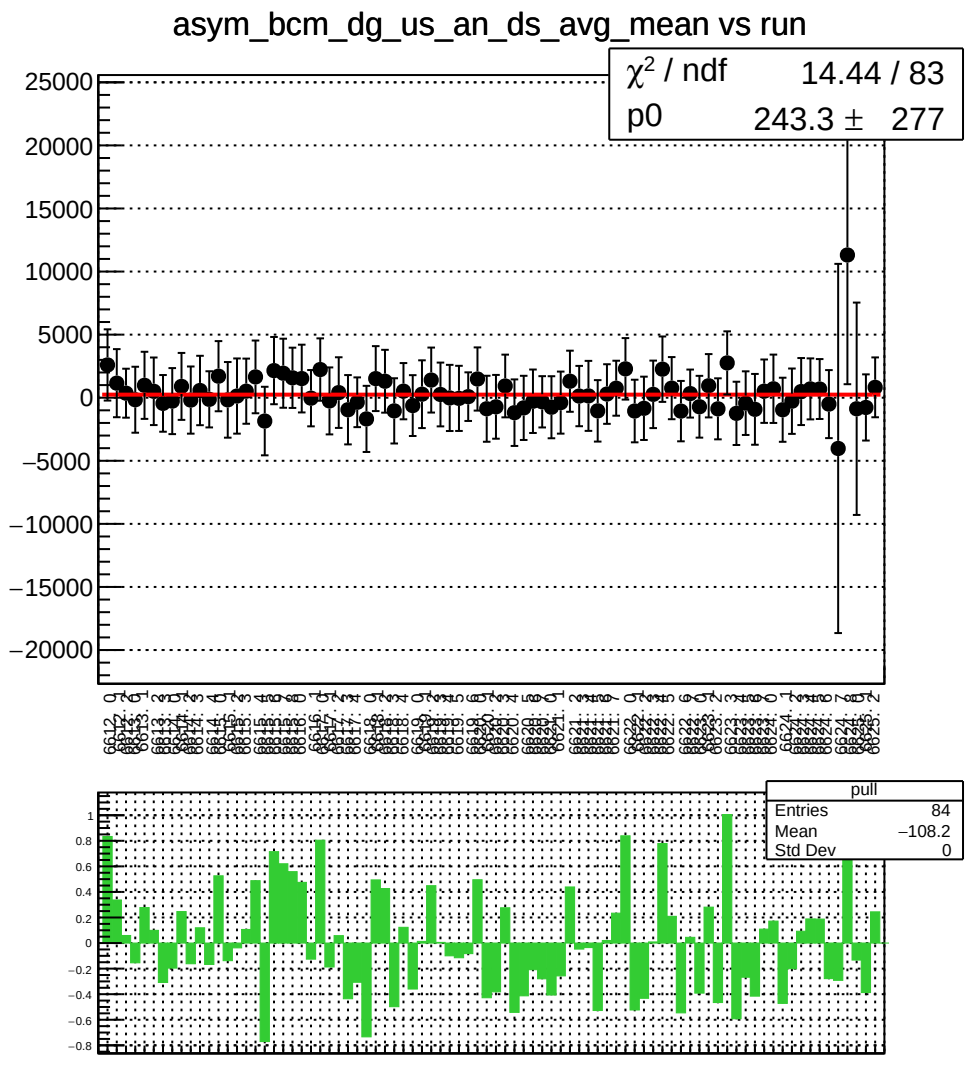

pull1D
Entries 84
Mean 0.009705
Std Dev 0.4012

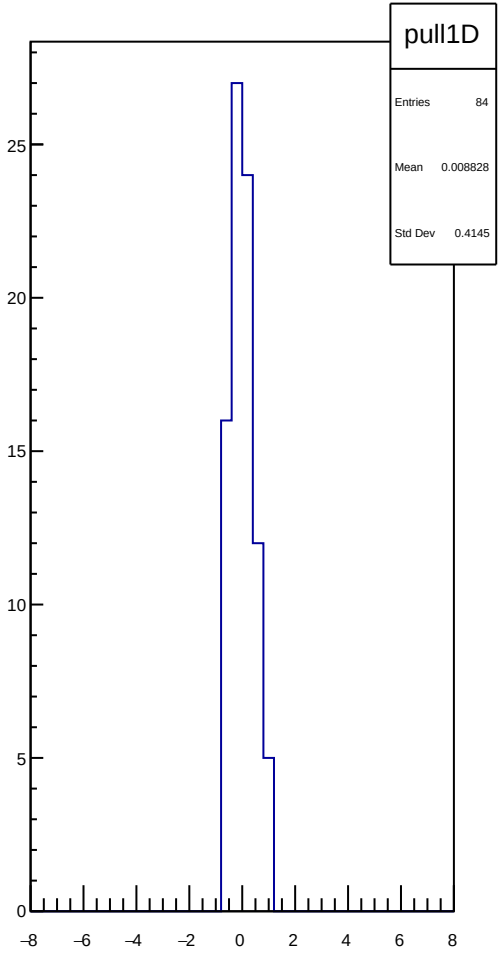

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 3.905e+04 / 83
p0 246.4 ± 0.1952
1400
1200
1000
800
600
400
200

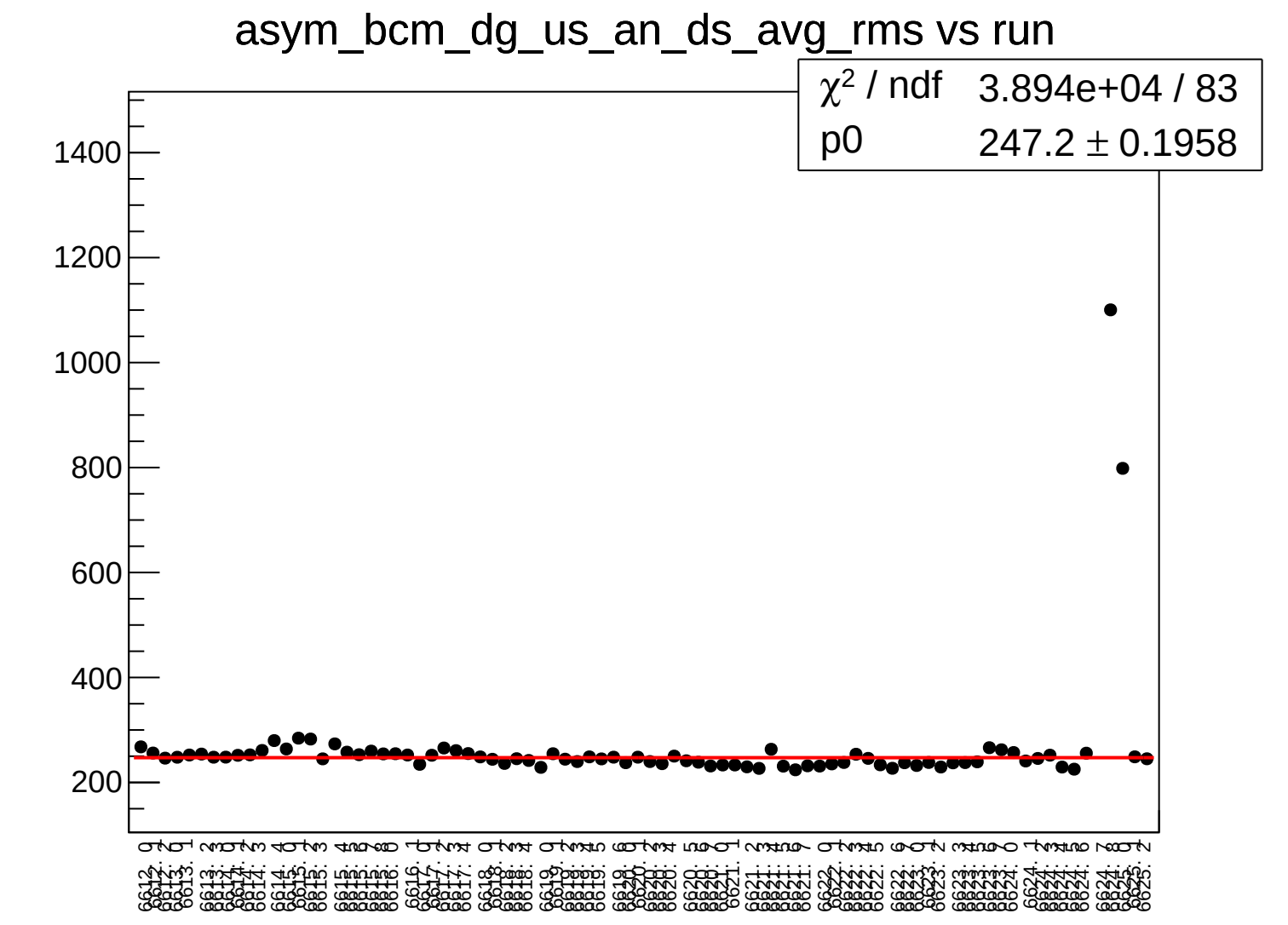

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 78.4 / 83
p0 −26.03 ± 19.04
pull
Entries 84
Mean −9.325
Std Dev 54.88

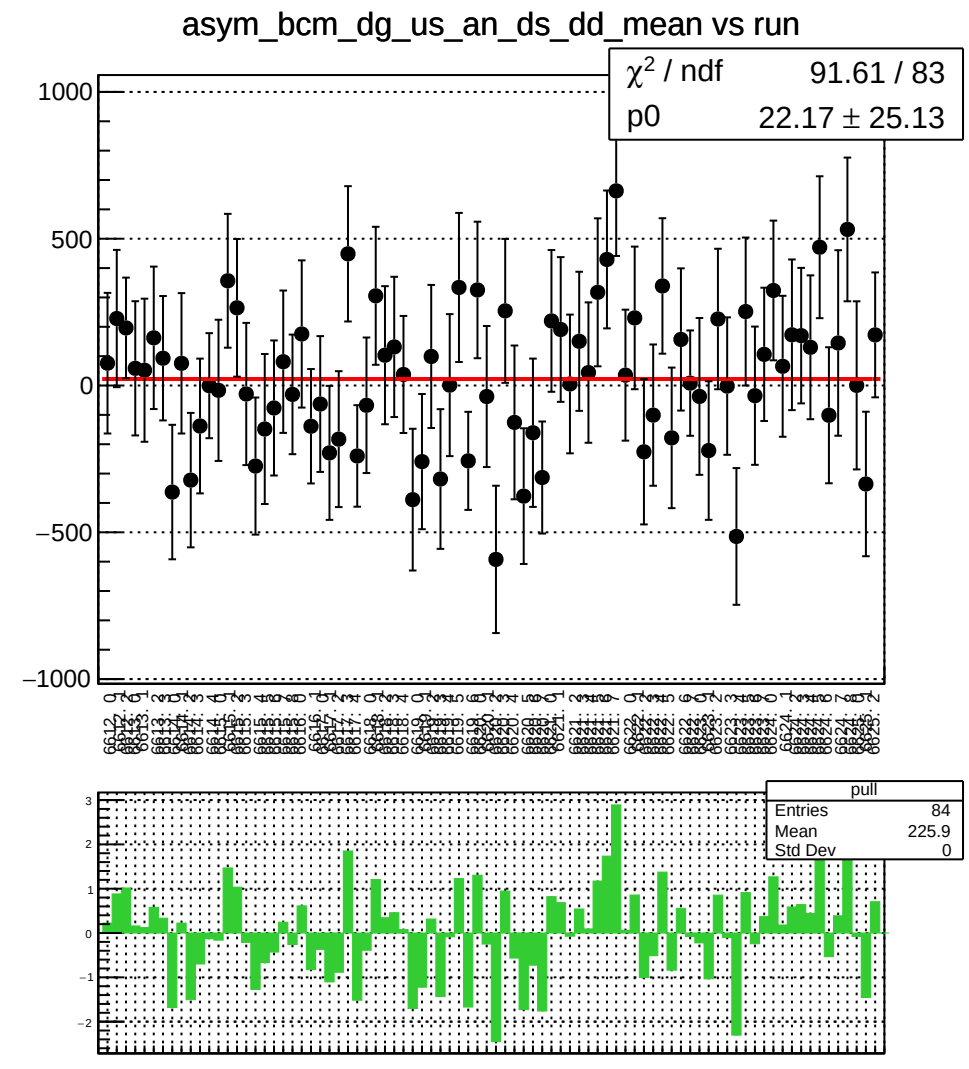

pull1D
Entries 84
Mean 0.009617
Std Dev 0.9661

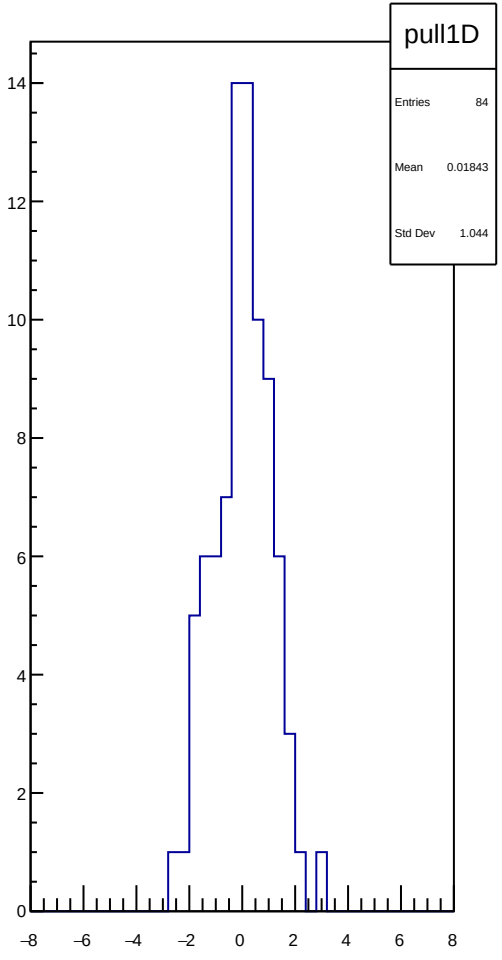

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 5392 / 83
p0 17.18 ± 0.01347
20
19
18
17
16
15

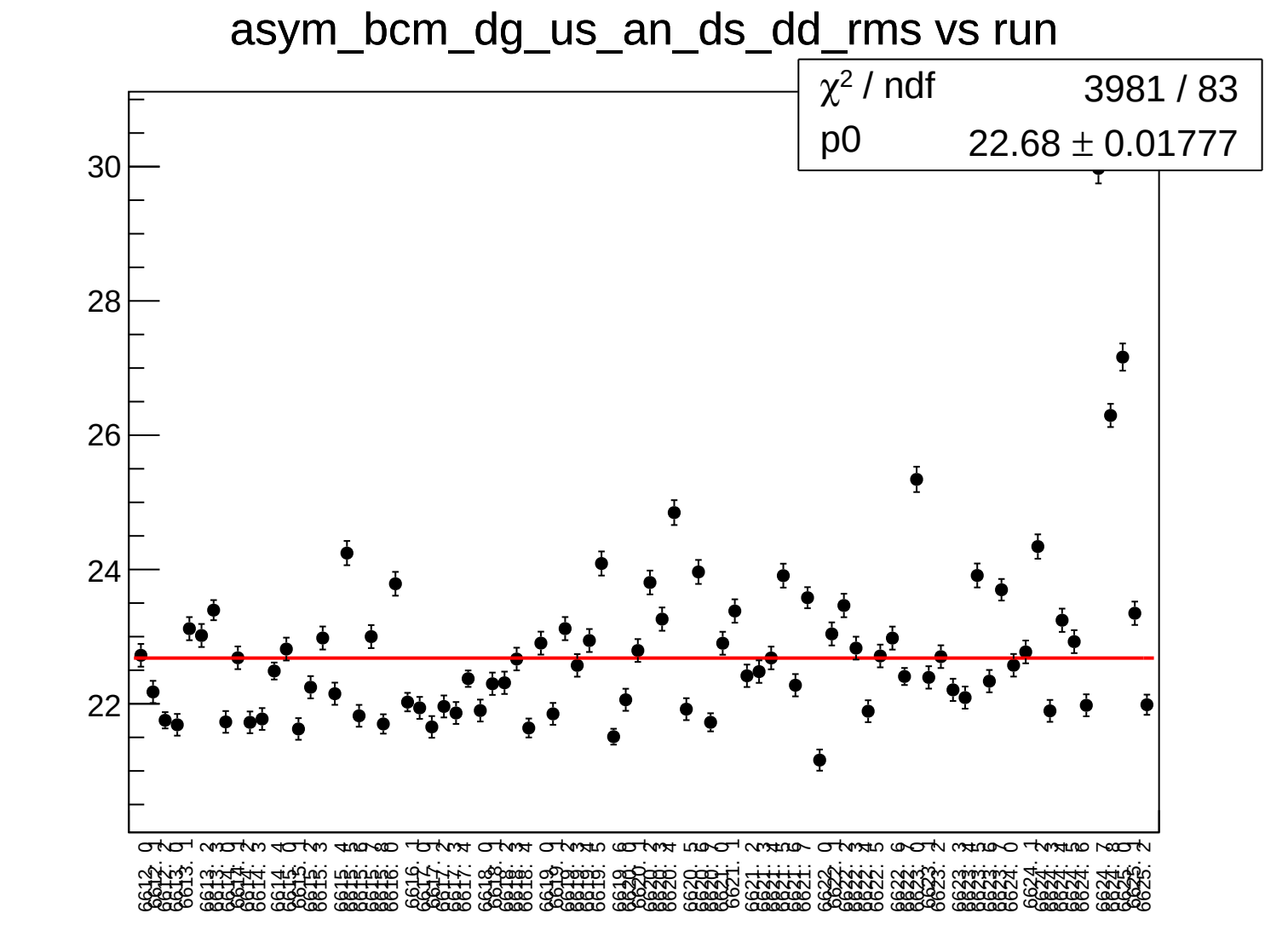

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 14.44 / 83
p0 243.3 ± 277
pull
Entries 84
Mean −108.2
Std Dev 0

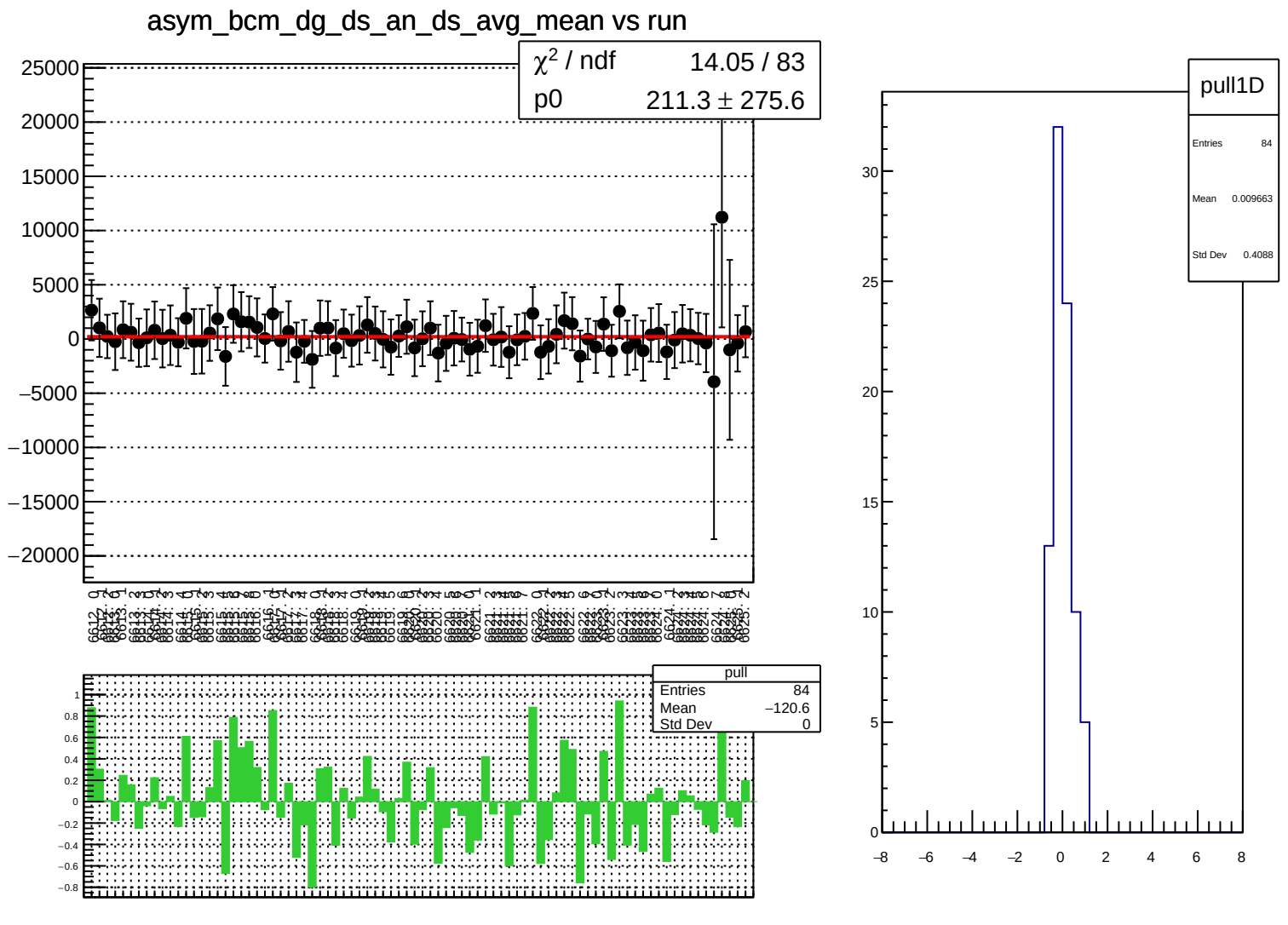

pull1D
Entries 84
Mean 0.008828
Std Dev 0.4145

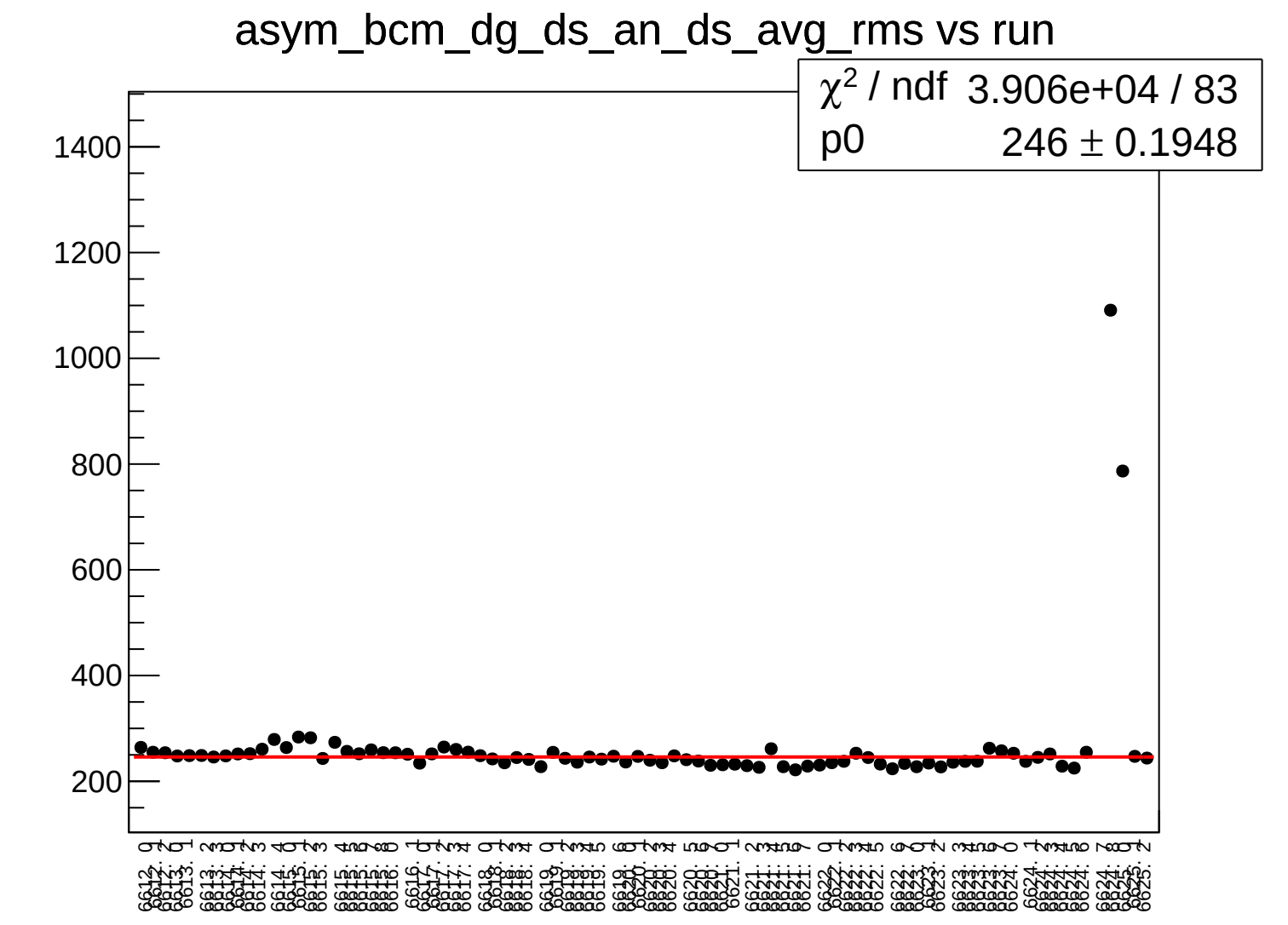

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 3.894e+04 / 83
p0 247.2 ± 0.1958
1400
1200
1000
800
600
400
200

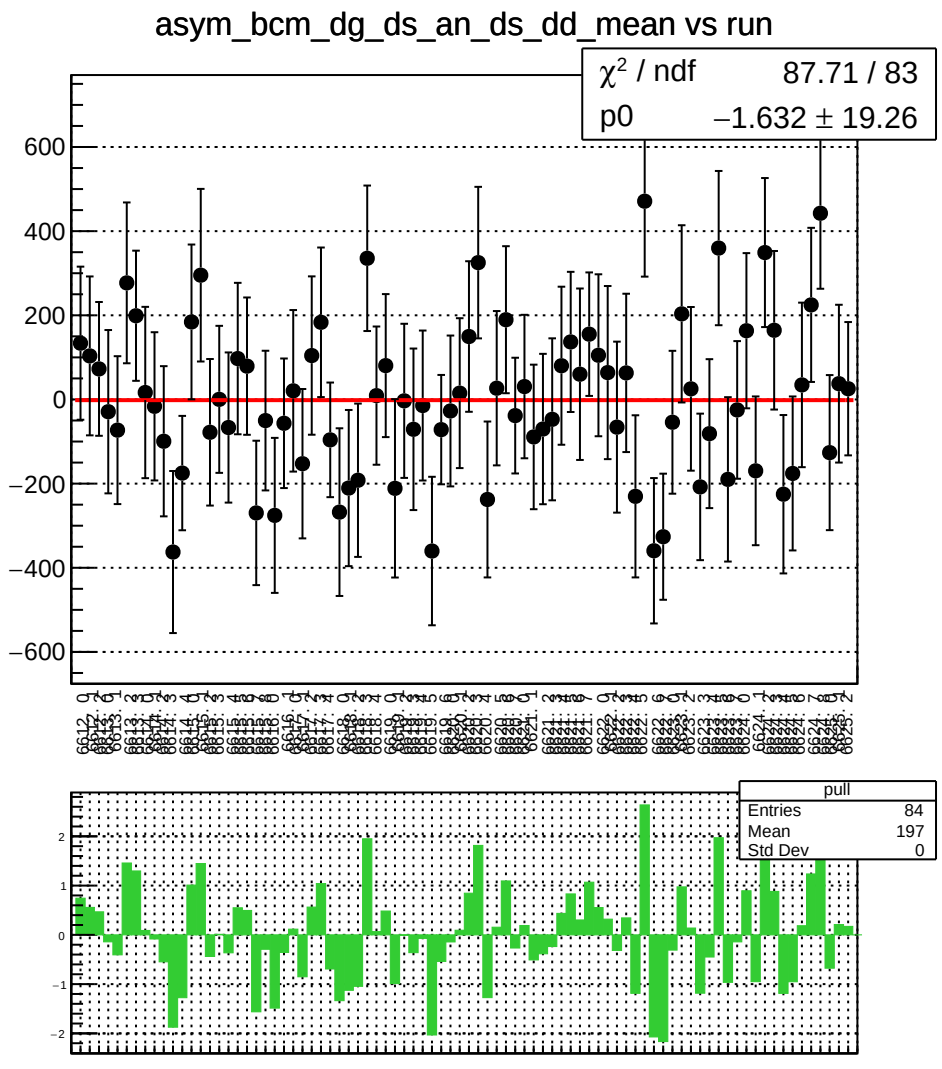

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 91.61 / 83
p0 22.17 ± 25.13
1000
500
0
−500
−1000
pull
Entries 84
Mean 225.9
Std Dev 0
3
2
1
0
−1
−2

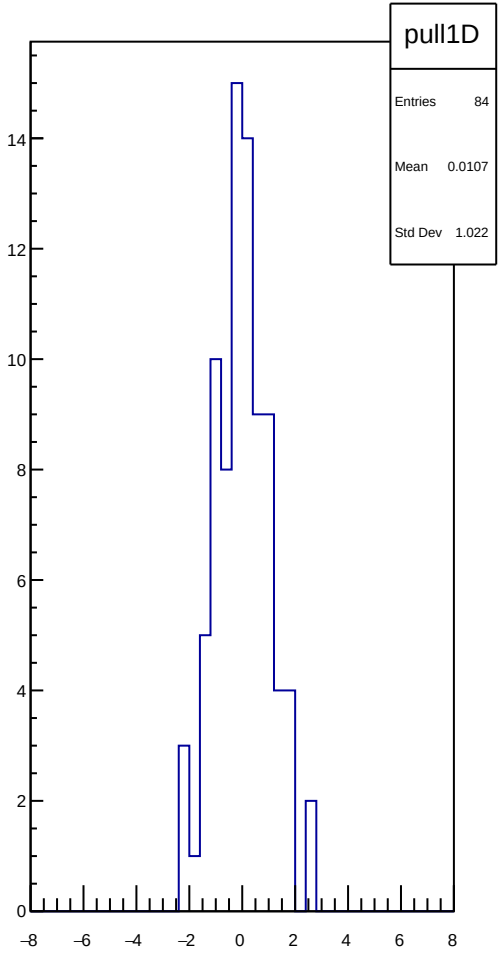

pull1D
Entries 84
Mean 0.01843
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

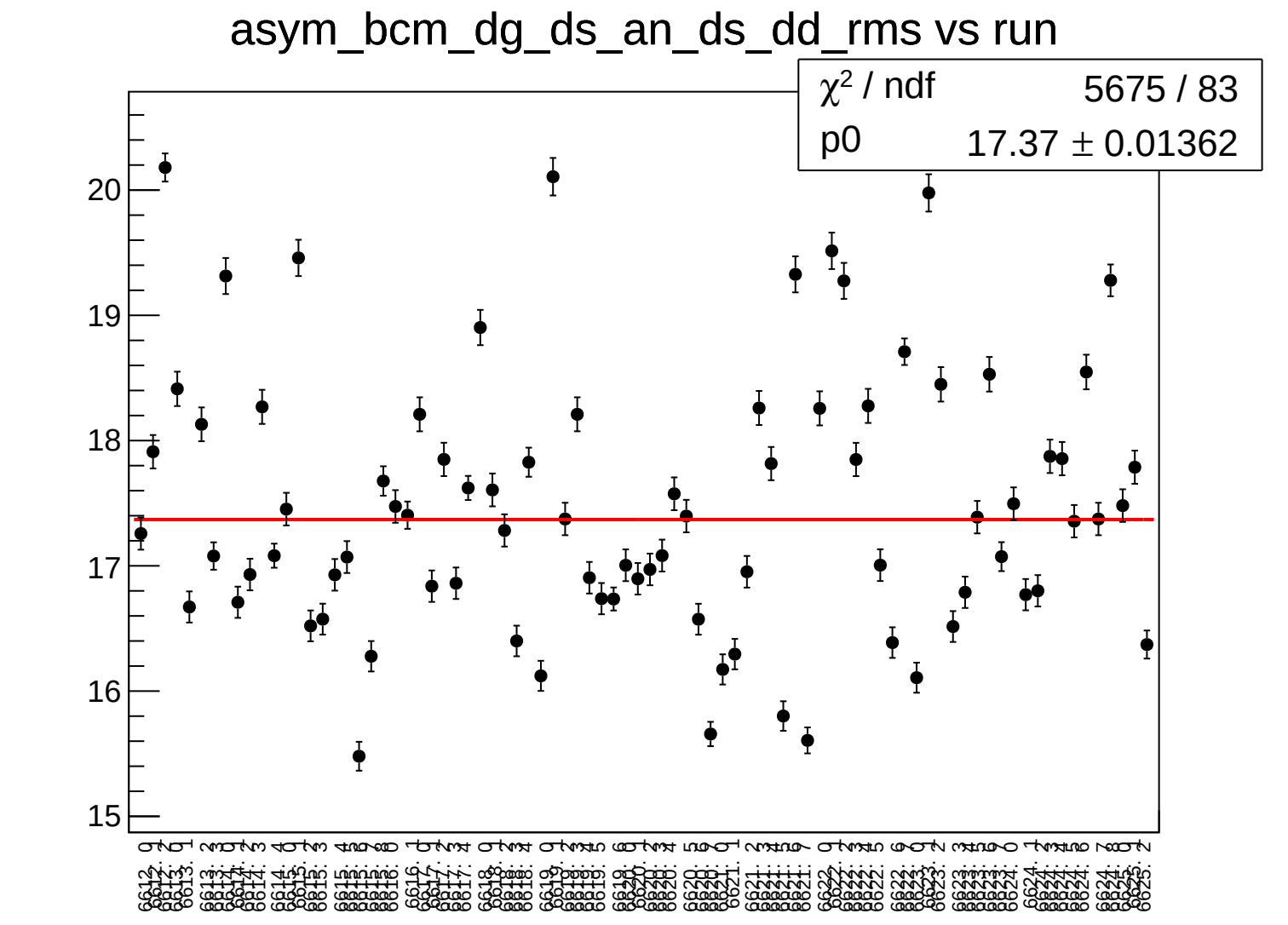

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 3981 / 83
p0 22.68 ± 0.01777
30
28
26
24
22

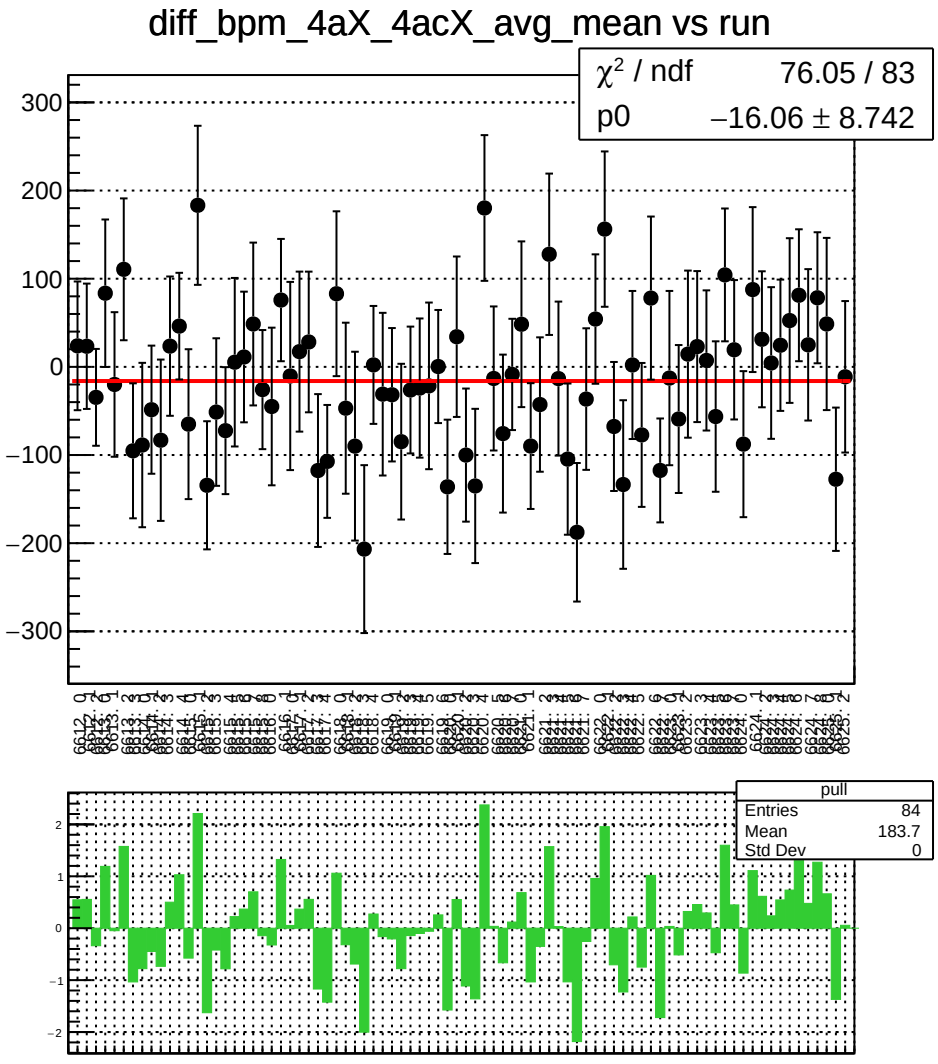

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 14.05 / 83
p0 211.3 ± 275.6
pull
Entries 84
Mean −120.6
Std Dev 0
pull1D
Entries 84
Mean 0.009663
Std Dev 0.4088

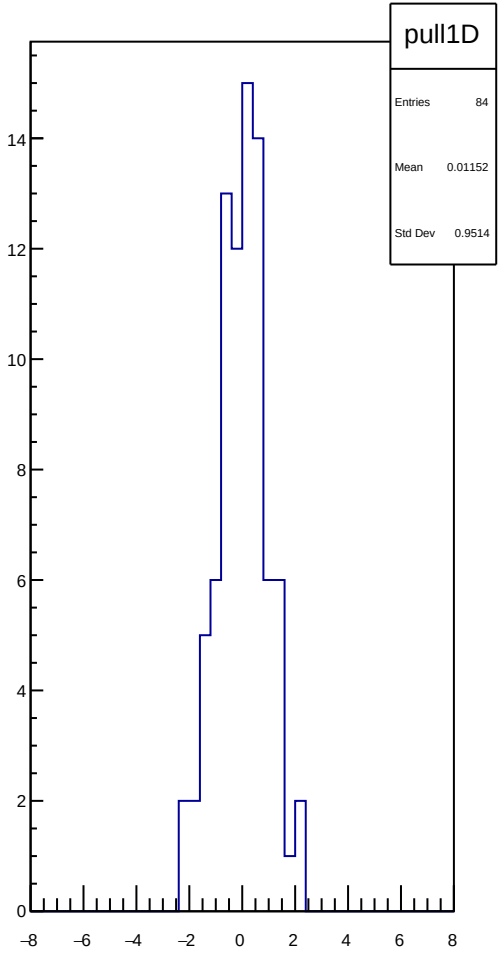

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 3.906e+04 / 83
p0 246 ± 0.1948
1400
1200
1000
800
600
400
200

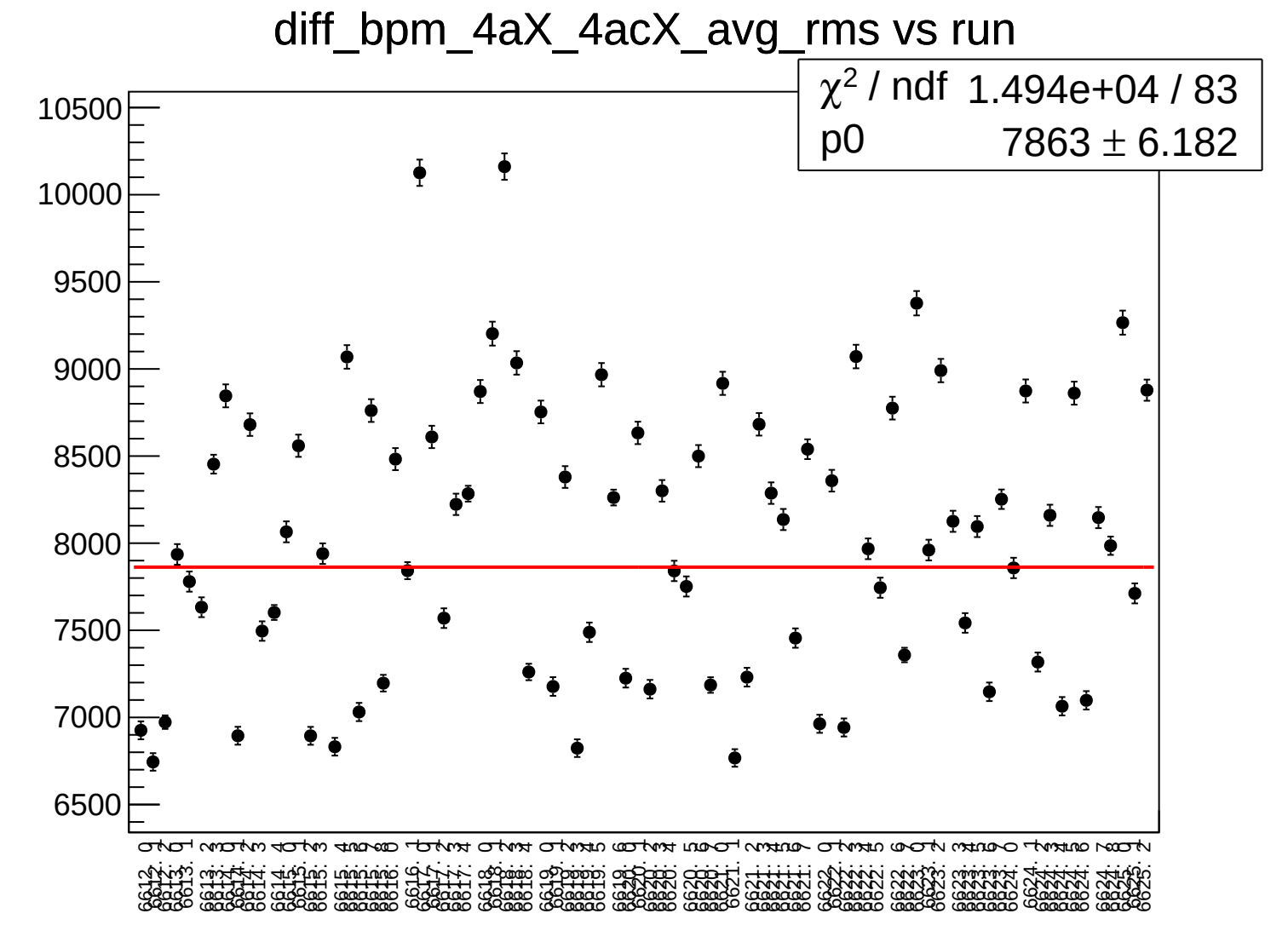

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 87.71 / 83
p0 −1.632 ± 19.26
pull
Entries 84
Mean 197
Std Dev 0

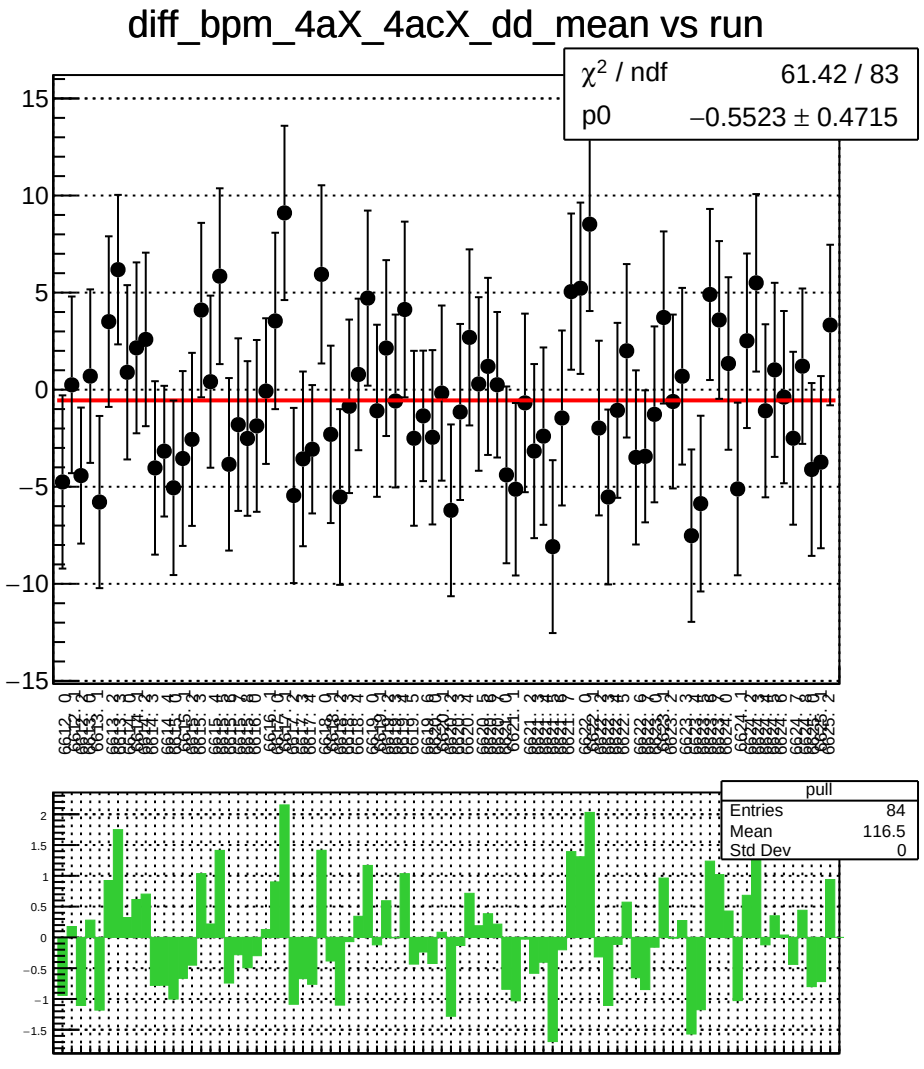

pull1D
Entries 84
Mean 0.0107
Std Dev 1.022

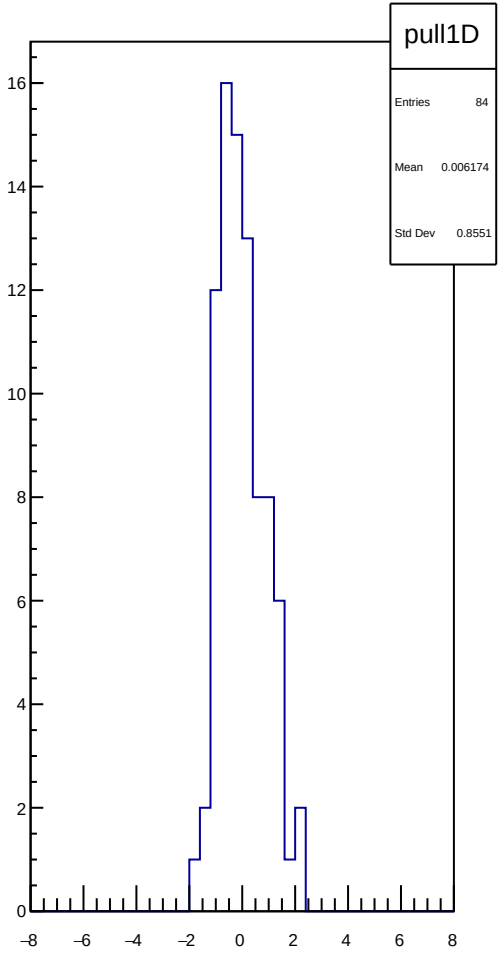

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 5675 / 83
p0 17.37 ± 0.01362
20
19
18
17
16
15

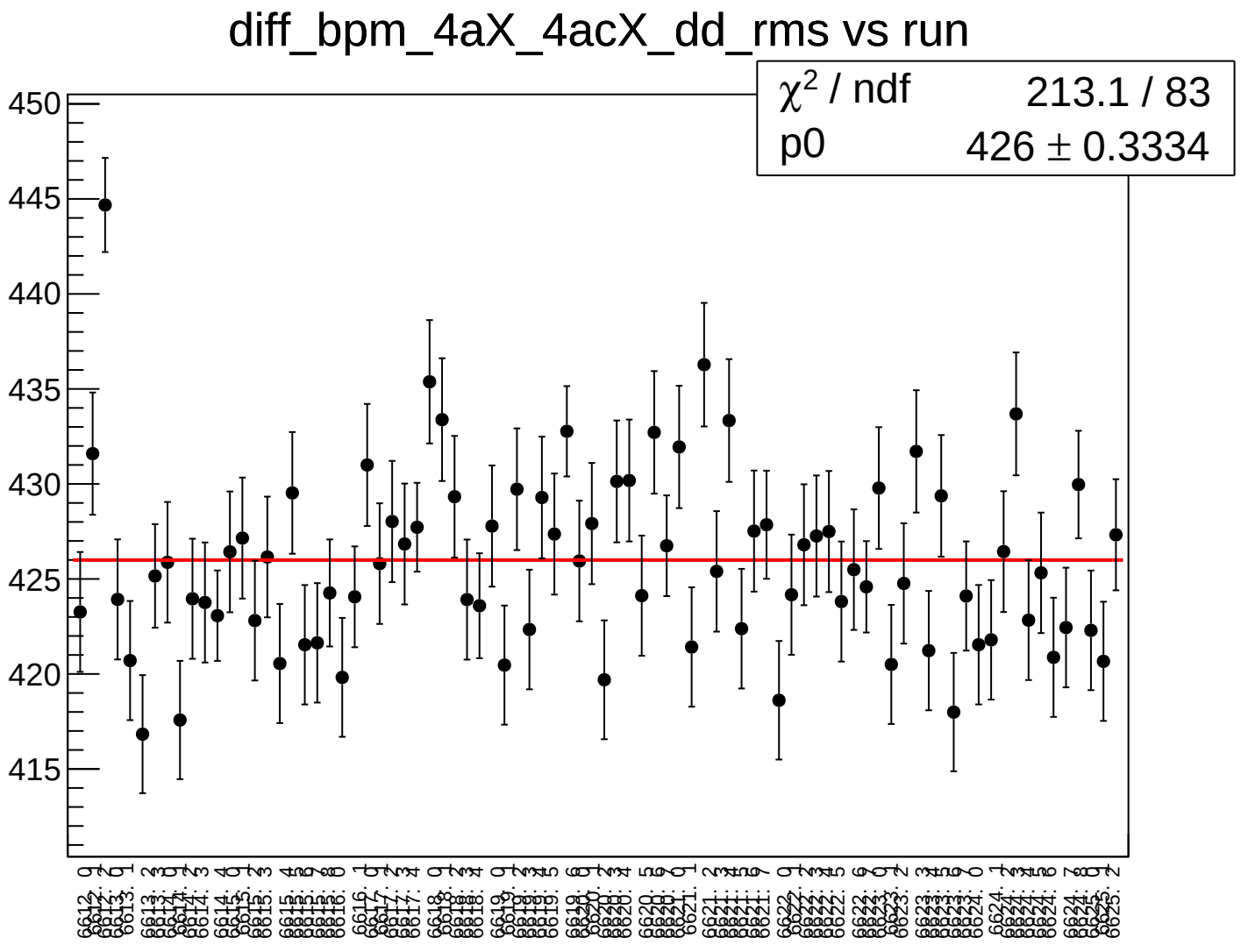

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 76.05 / 83
p0 −16.06 ± 8.742
pull
Entries 84
Mean 183.7
Std Dev 0

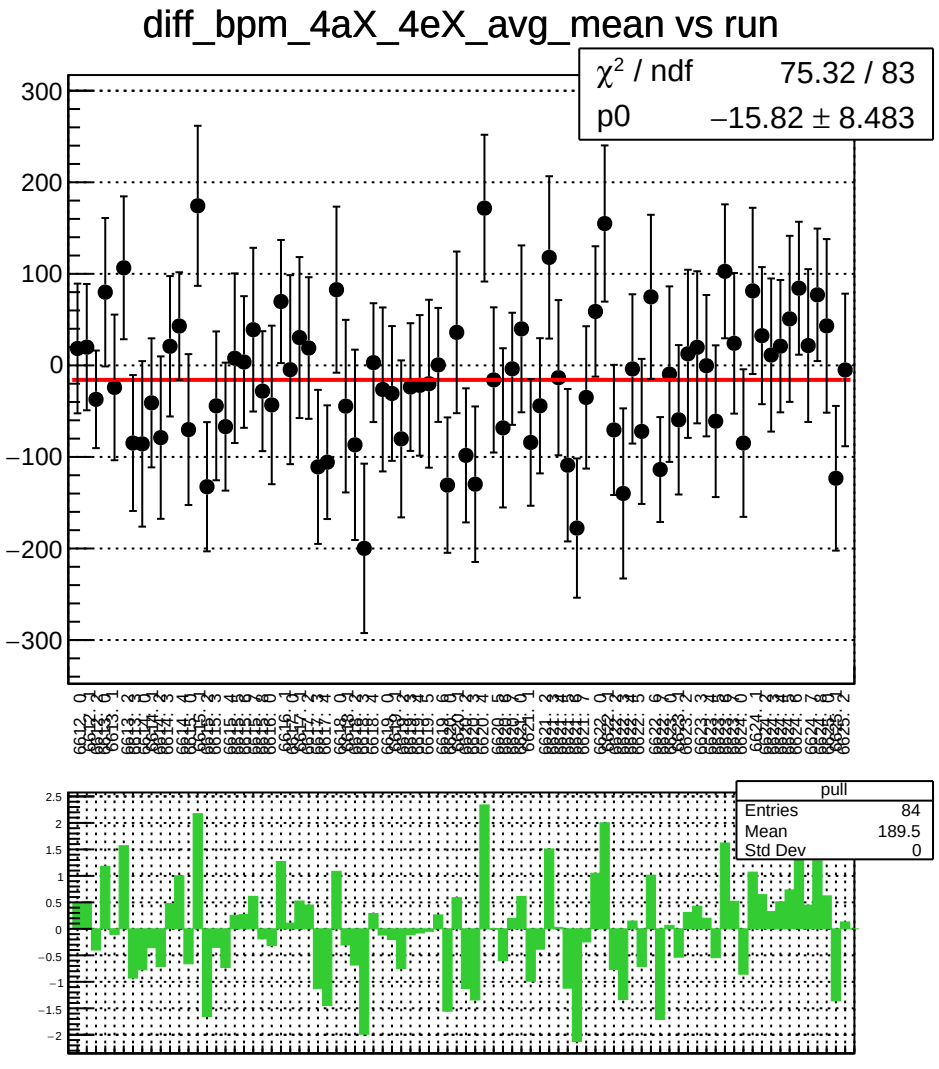

pull1D
Entries 84
Mean 0.01152
Std Dev 0.9514

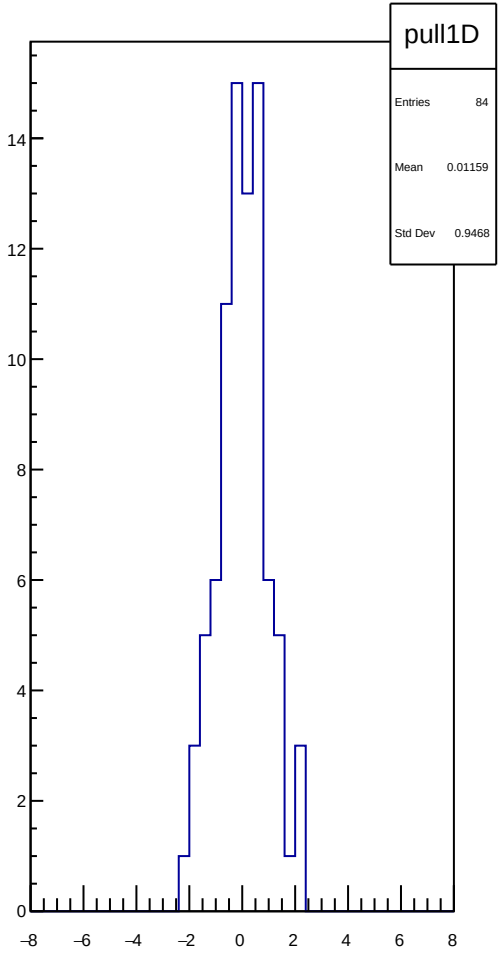

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 1.494e+04 / 83
p0 7863 ± 6.182
10500
10000
9500
9000
8500
8000
7500
7000
6500

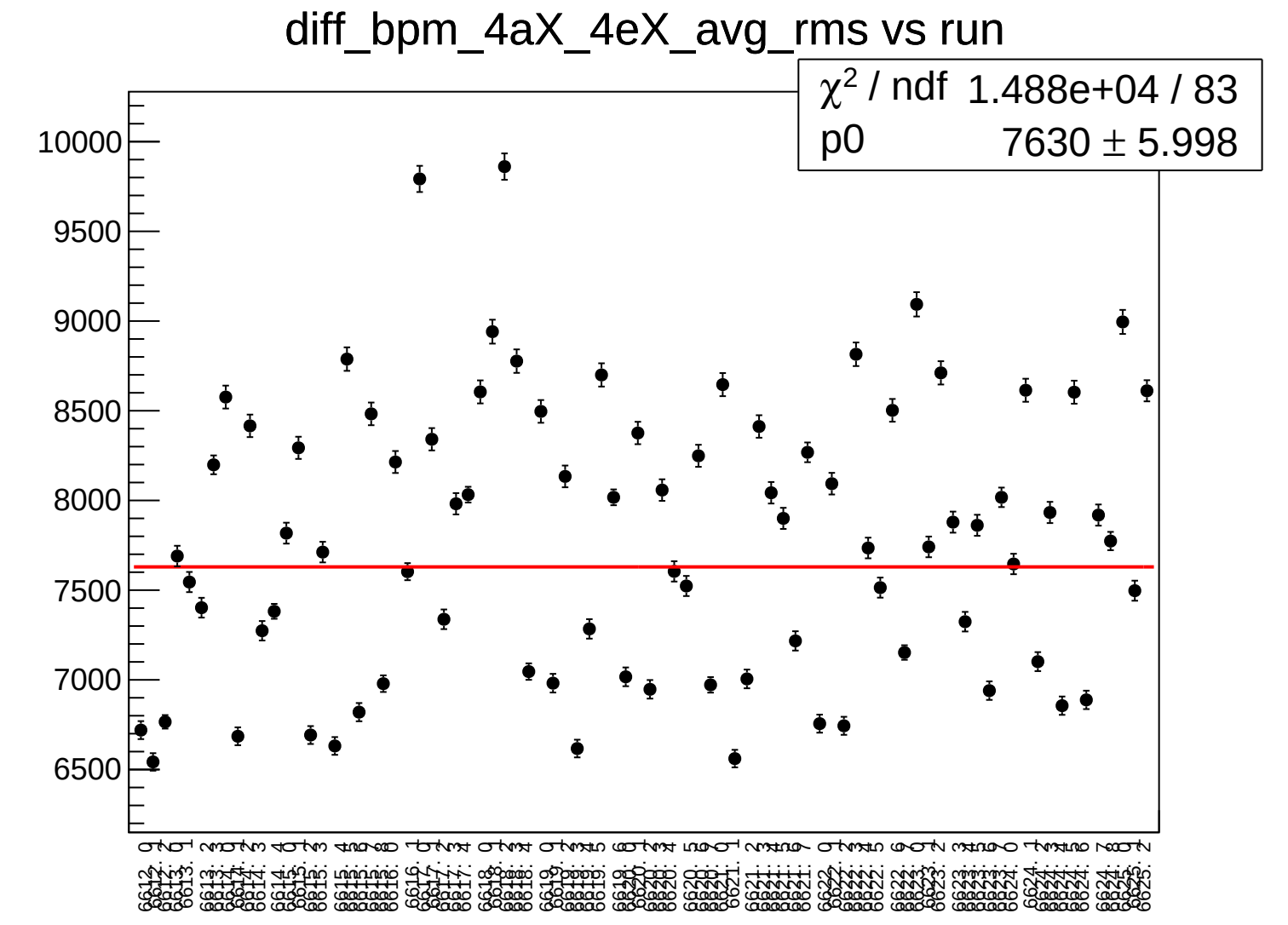

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 61.42 / 83
p0 −0.5523 ± 0.4715
pull
Entries 84
Mean 116.5
Std Dev 0

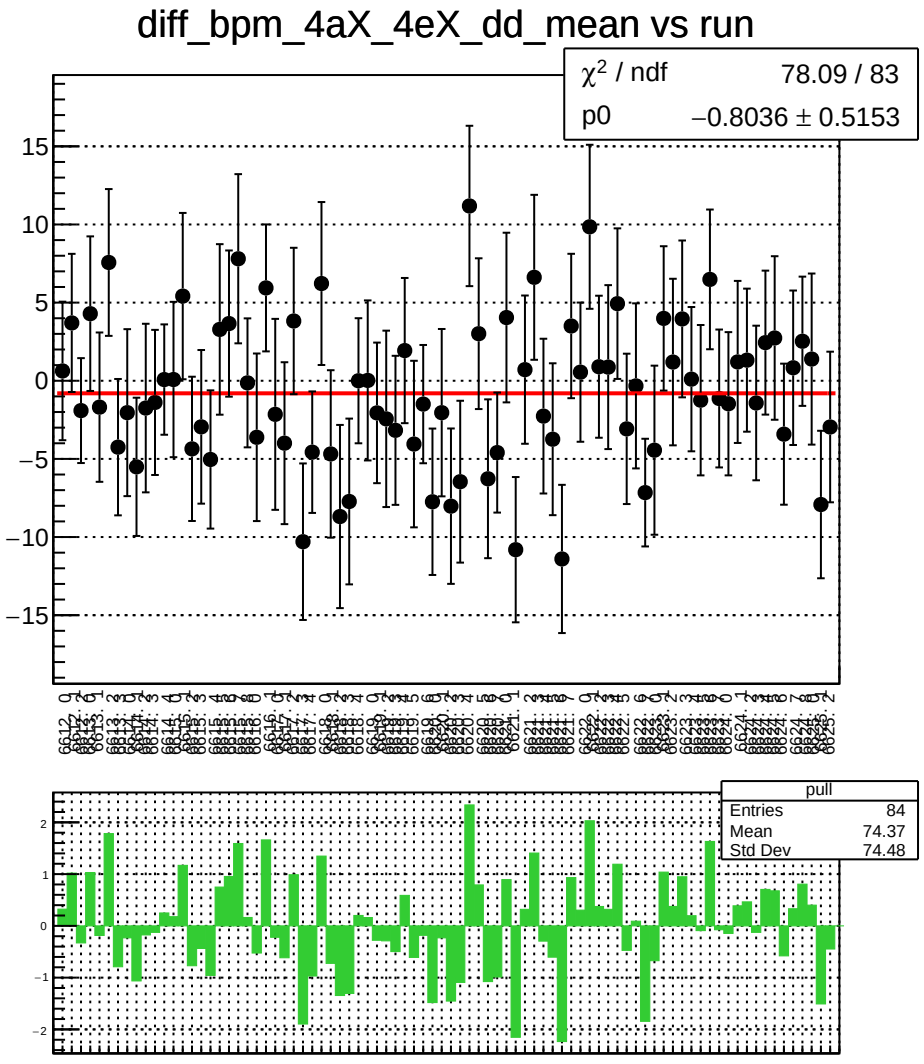

pull1D
Entries 84
Mean 0.006174
Std Dev 0.8551

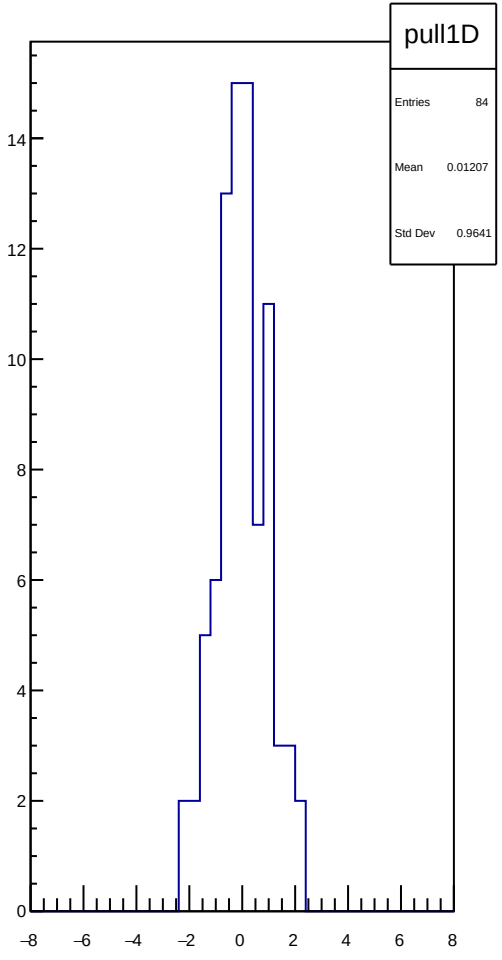

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 213.1 / 83
p0 426 ± 0.3334
450
445
440
435
430
425
420
415

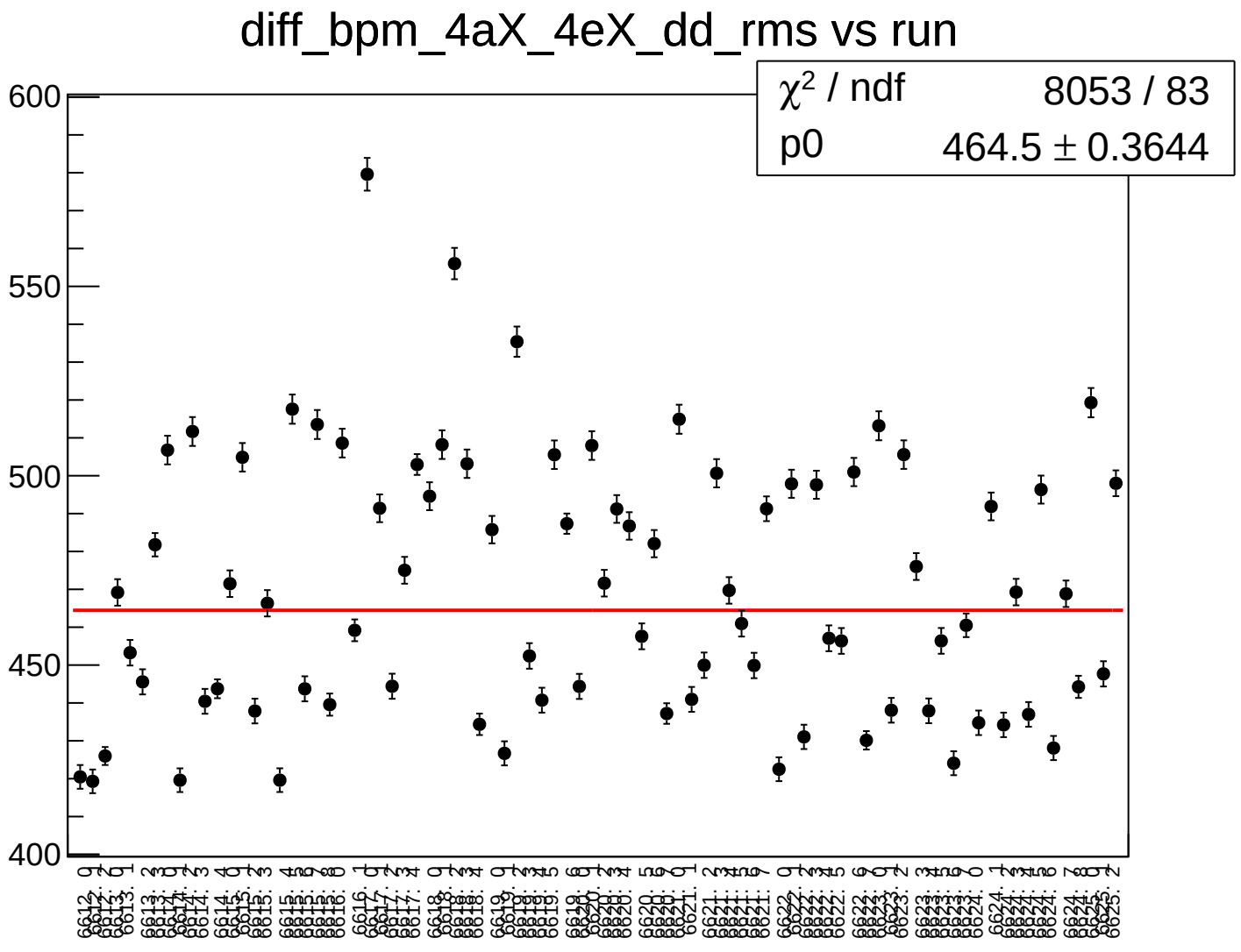

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 75.32 / 83
p0 −15.82 ± 8.483
pull
Entries 84
Mean 189.5
Std Dev 0

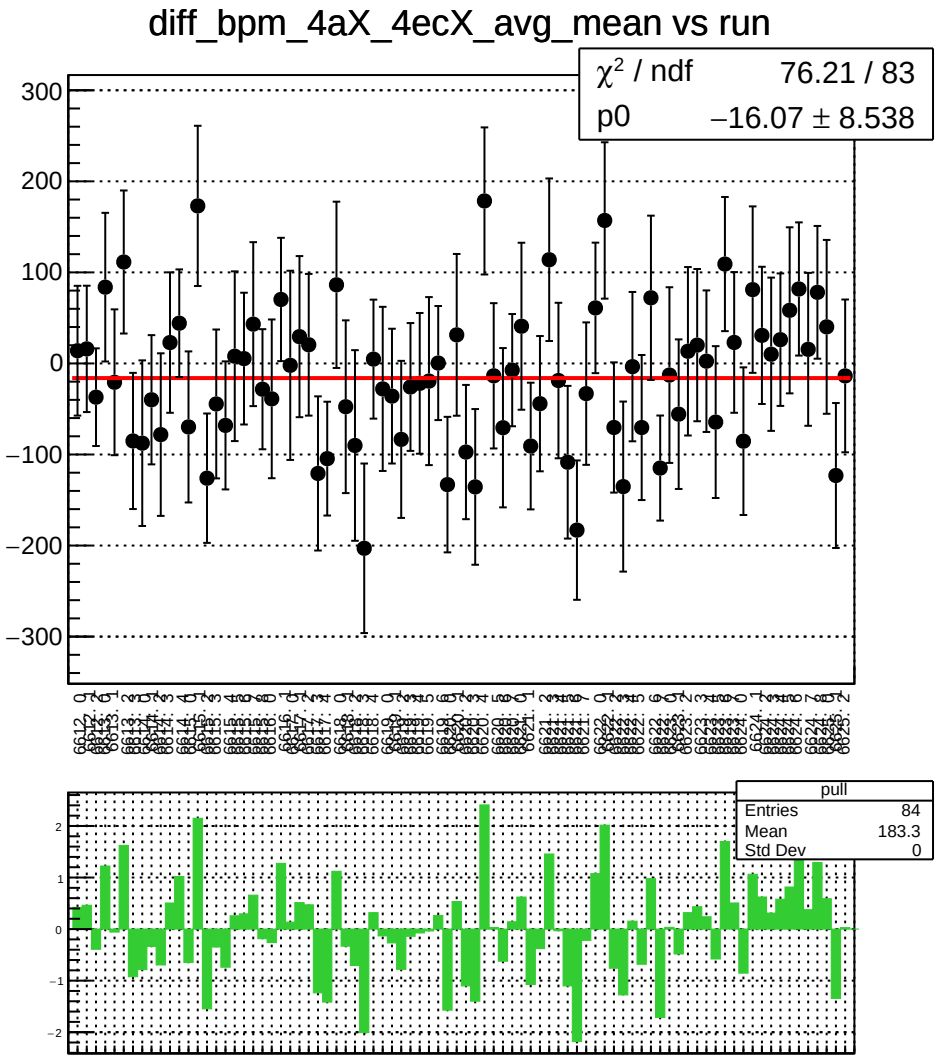

pull1D
Entries 84
Mean 0.01159
Std Dev 0.9468

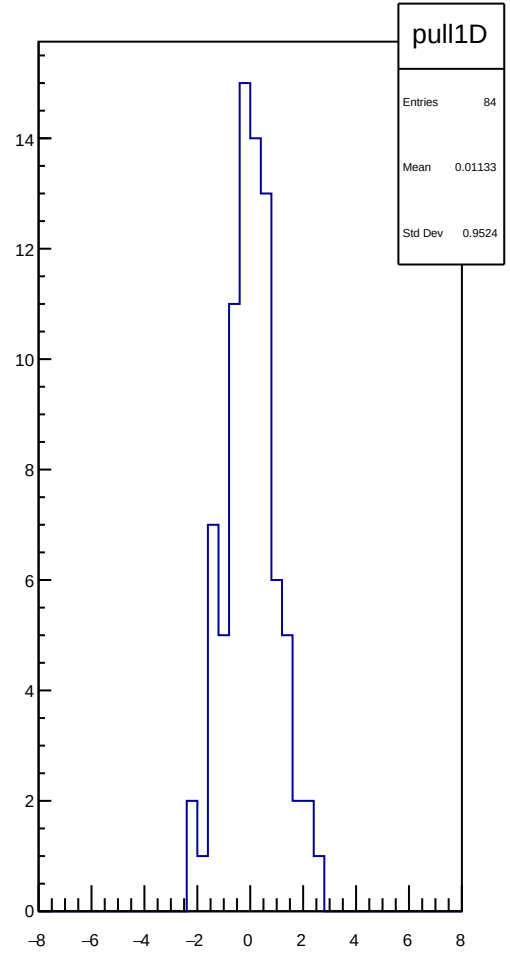

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 1.488e+04 / 83
p0 7630 ± 5.998
10000
9500
9000
8500
8000
7500
7000
6500

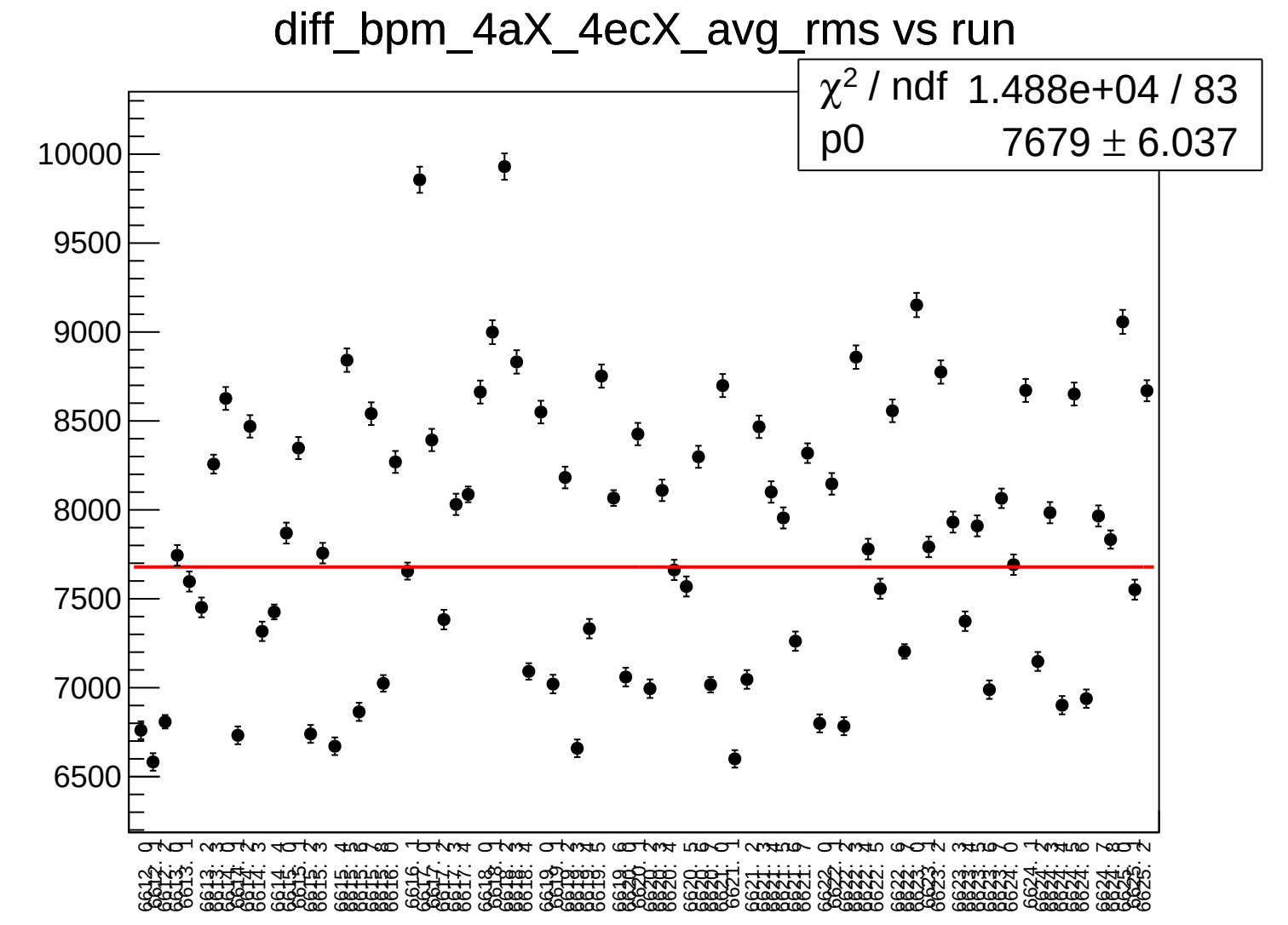

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 78.09 / 83
p0 −0.8036 ± 0.5153
pull
Entries 84
Mean 74.37
Std Dev 74.48

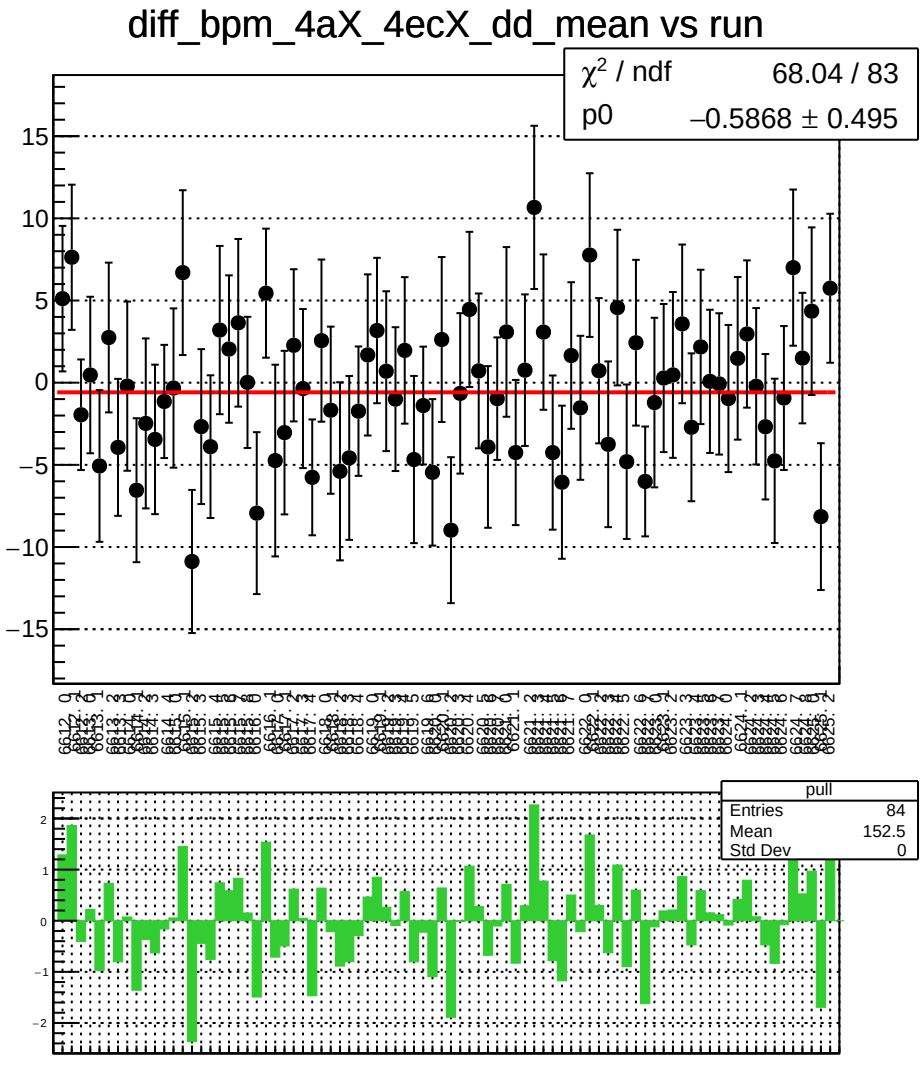

pull1D
Entries 84
Mean 0.01207
Std Dev 0.9641

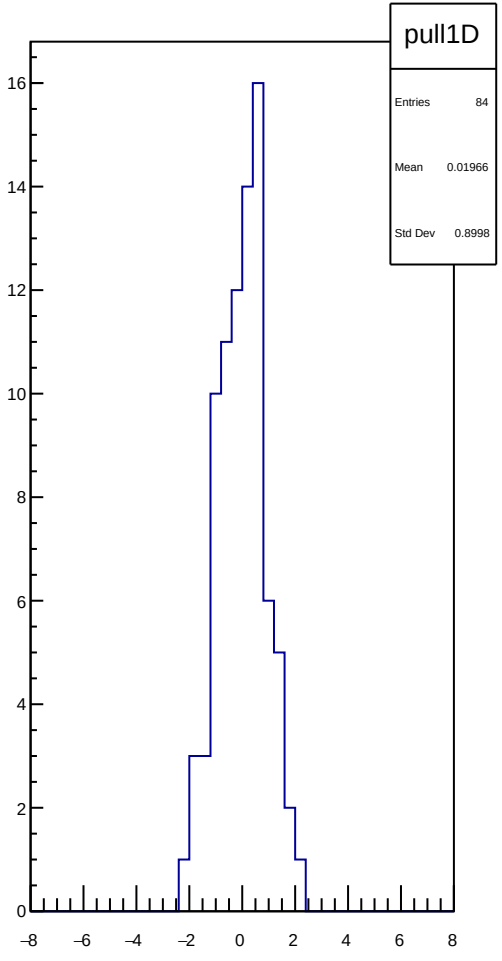

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 8053 / 83
p0 464.5 ± 0.3644
600
550
500
450
400

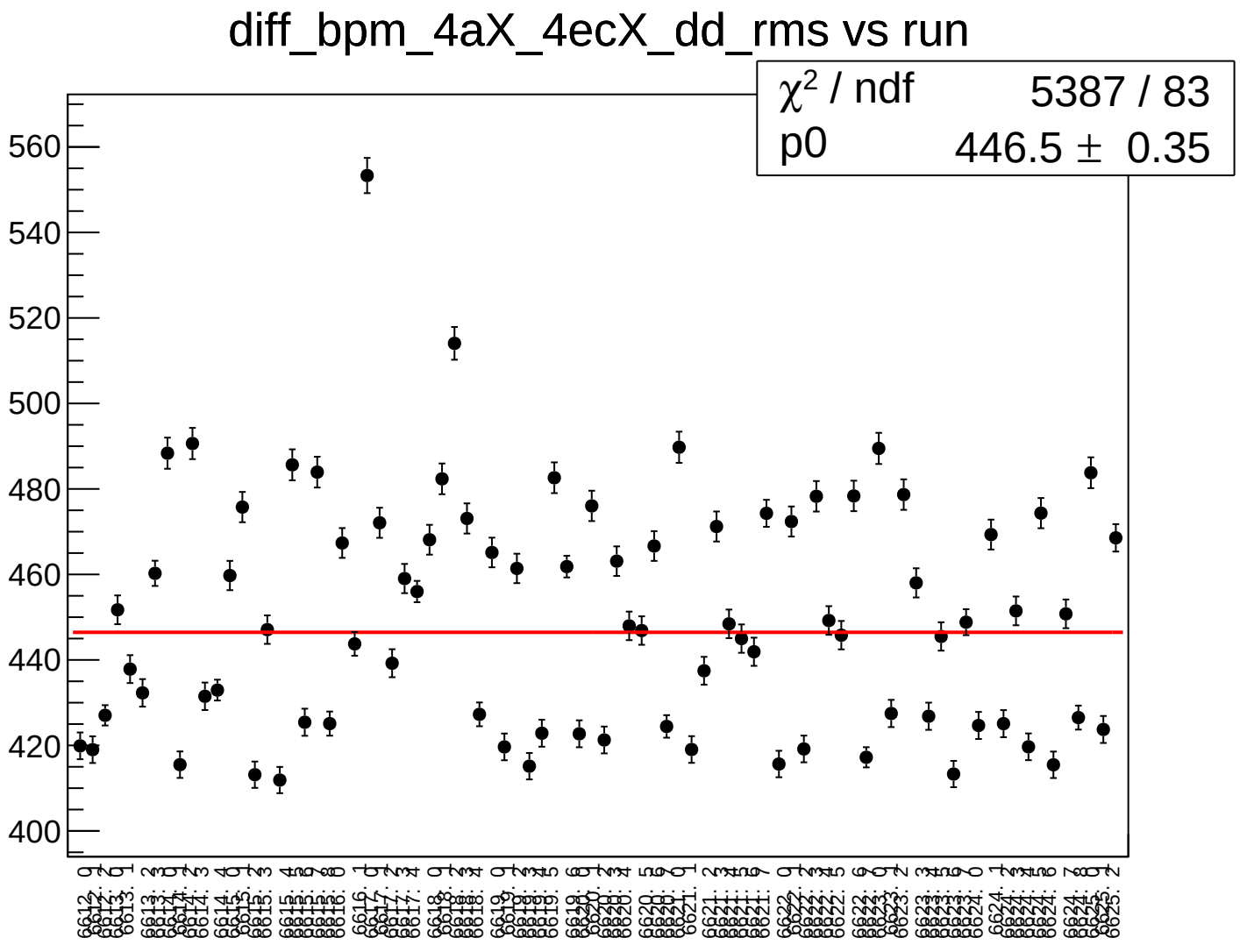

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 76.21 / 83
p0 −16.07 ± 8.538
pull
Entries 84
Mean 183.3
Std Dev 0

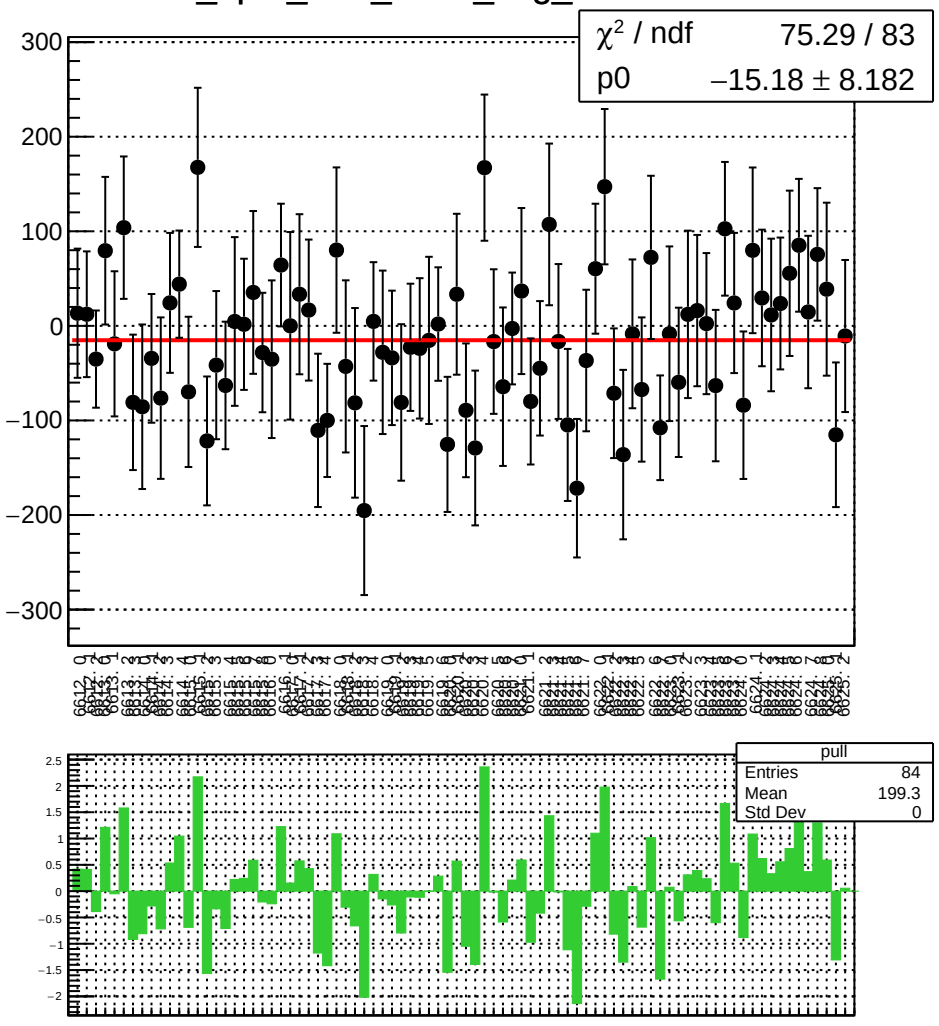

pull1D
Entries 84
Mean 0.01133
Std Dev 0.9524

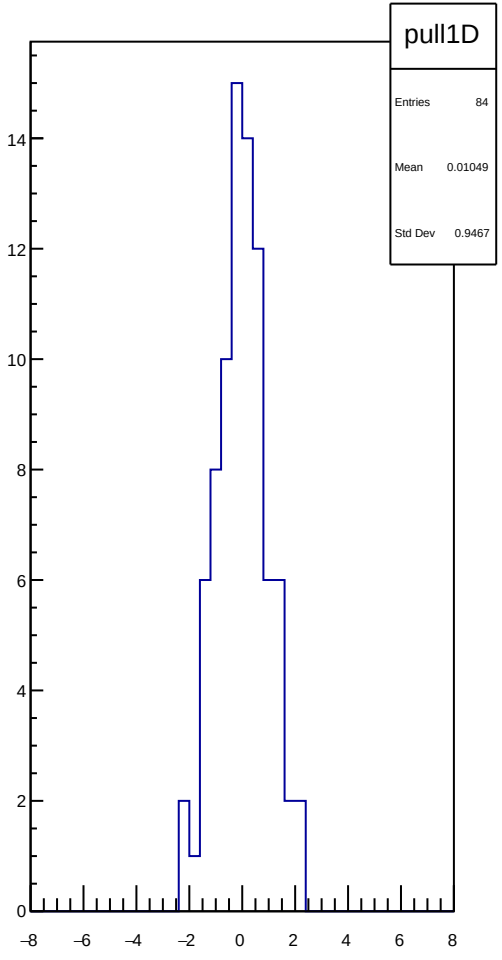

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 1.488e+04 / 83
p0 7679 ± 6.037
10000
9500
9000
8500
8000
7500
7000
6500

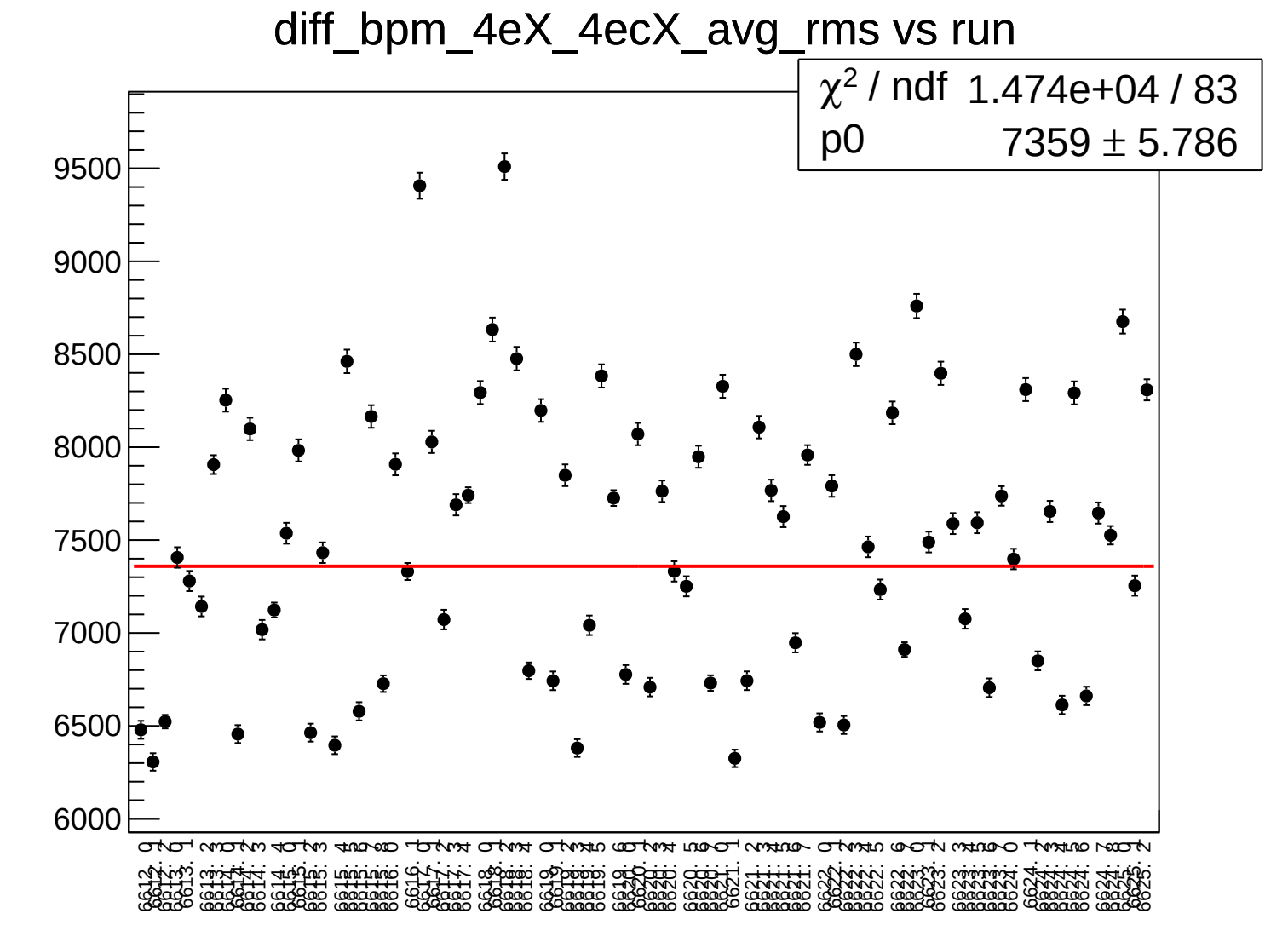

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 68.04 / 83
p0 −0.5868 ± 0.495
pull
Entries 84
Mean 152.5
Std Dev 0

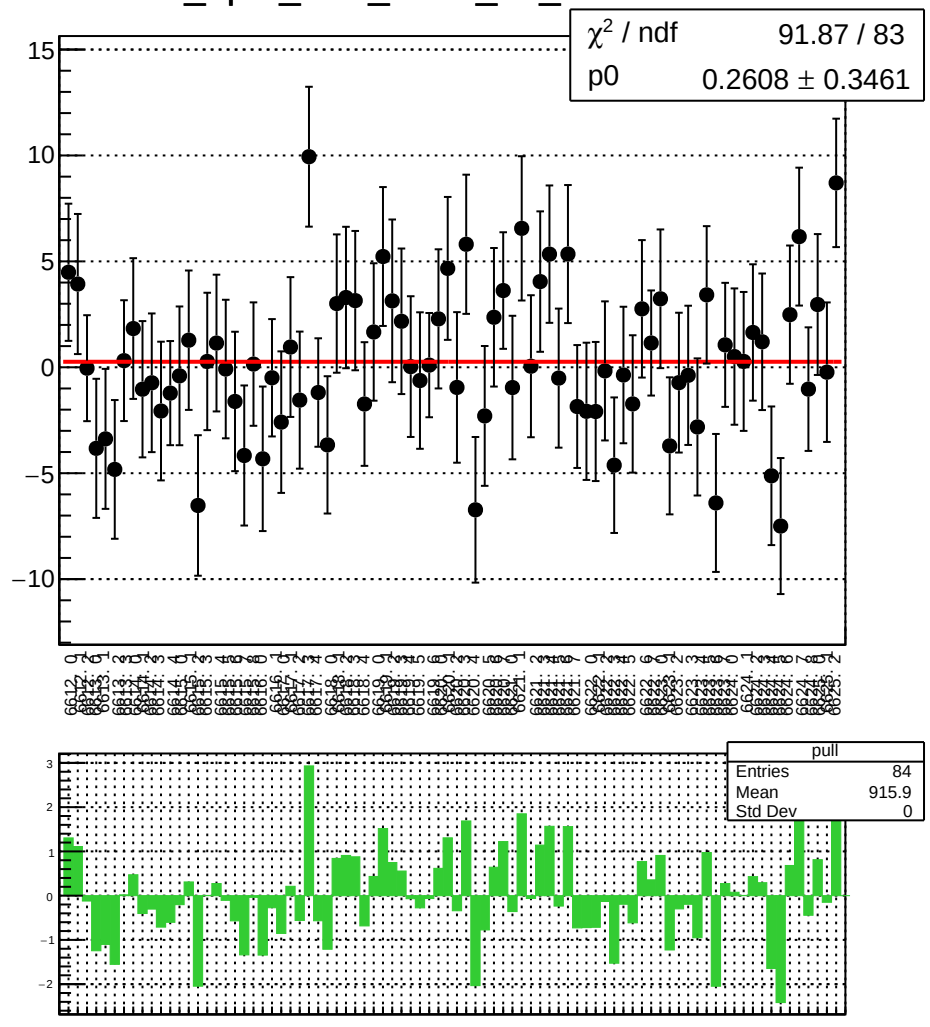

pull1D
Entries 84
Mean 0.01966
Std Dev 0.8998

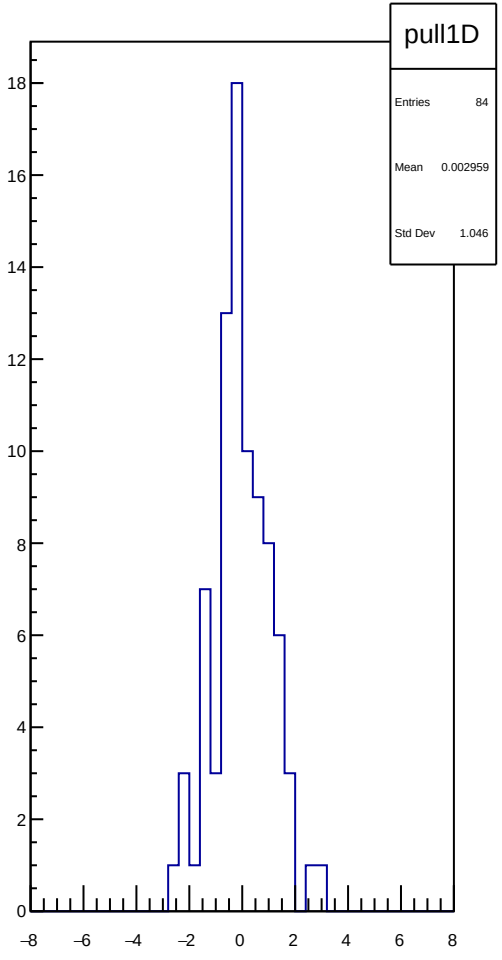

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 5387 / 83
p0 446.5 ± 0.35
560
540
520
500
480
460
440
420
400

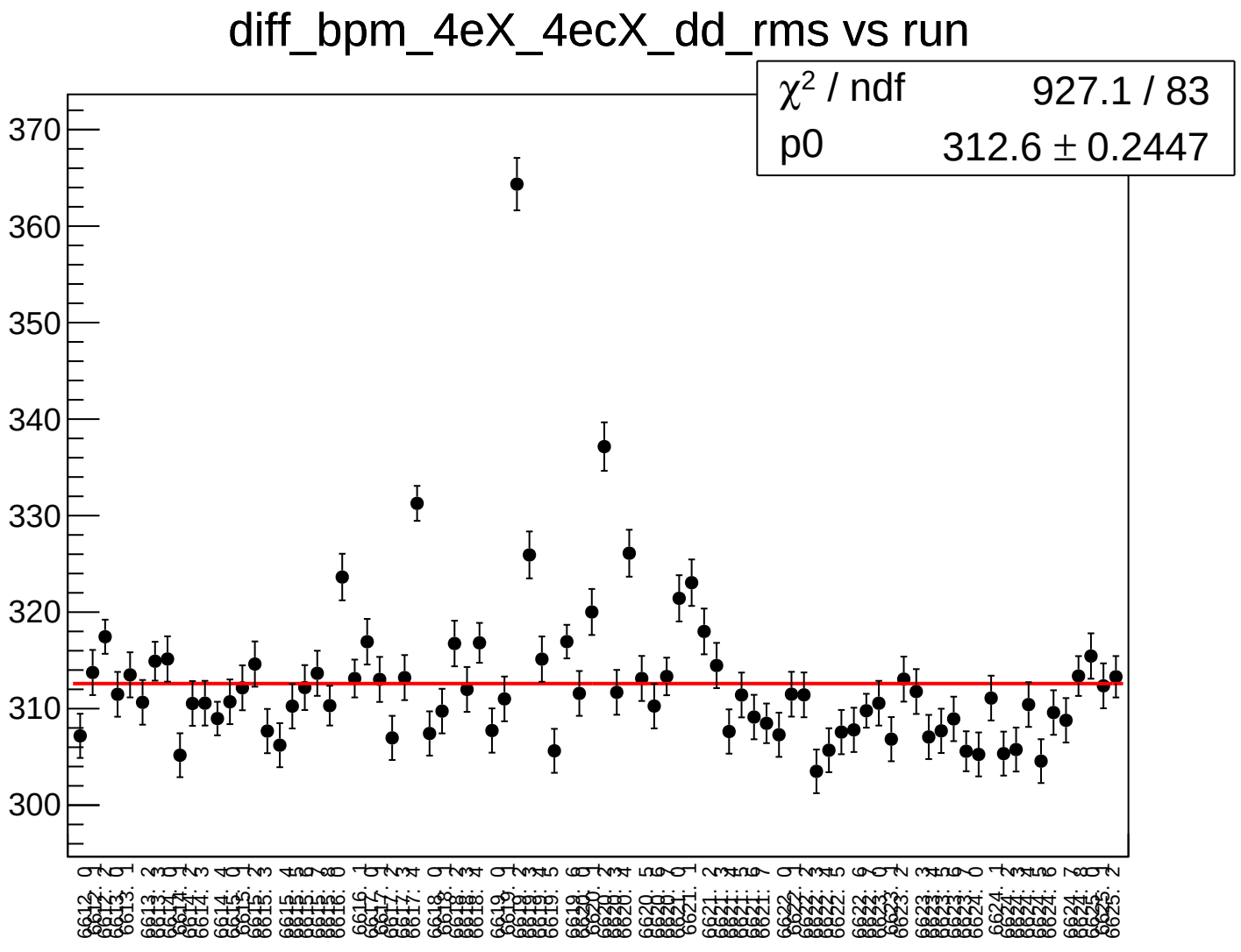

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 75.29 / 83
p0 −15.18 ± 8.182
pull
Entries 84
Mean 199.3
Std Dev 0

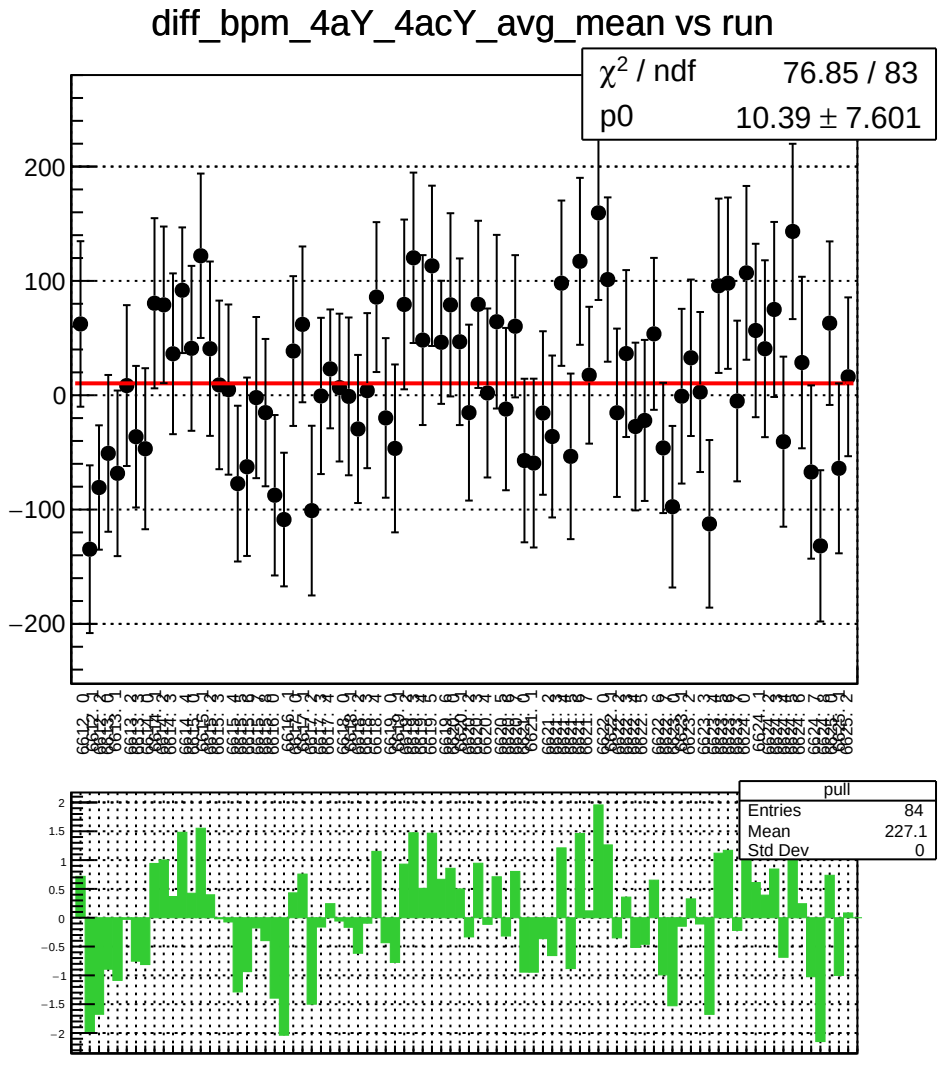

pull1D
Entries 84
Mean 0.01049
Std Dev 0.9467

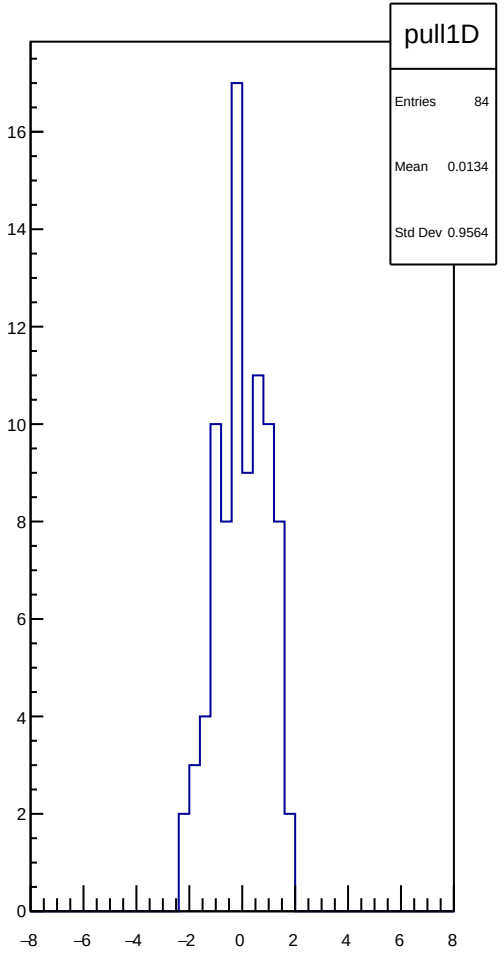

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1.474e+04 / 83
p0 7359 ± 5.786
9500
9000
8500
8000
7500
7000
6500
6000

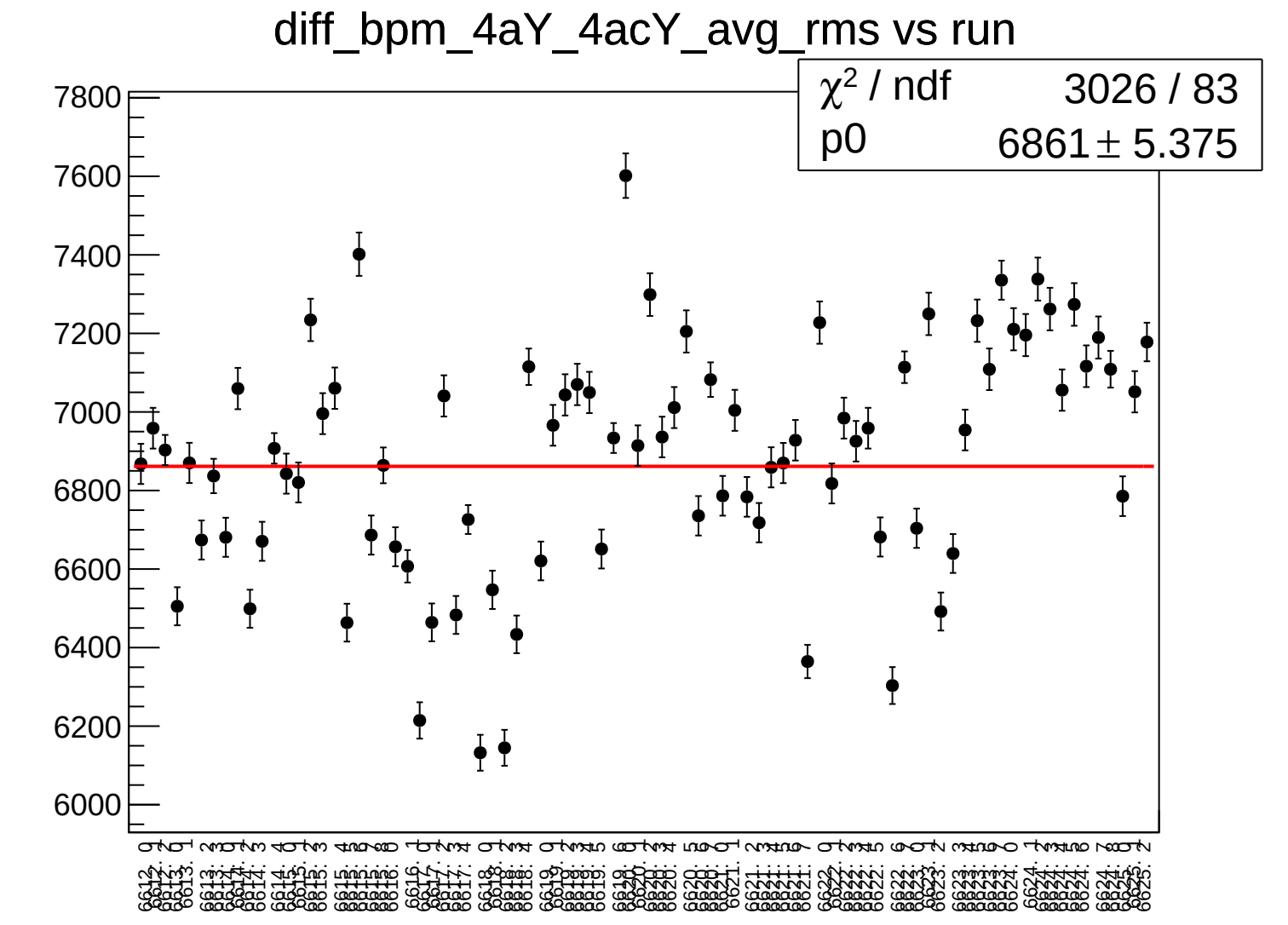

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 91.87 / 83
p0 0.2608 ± 0.3461
pull
Entries 84
Mean 915.9
Std Dev 0

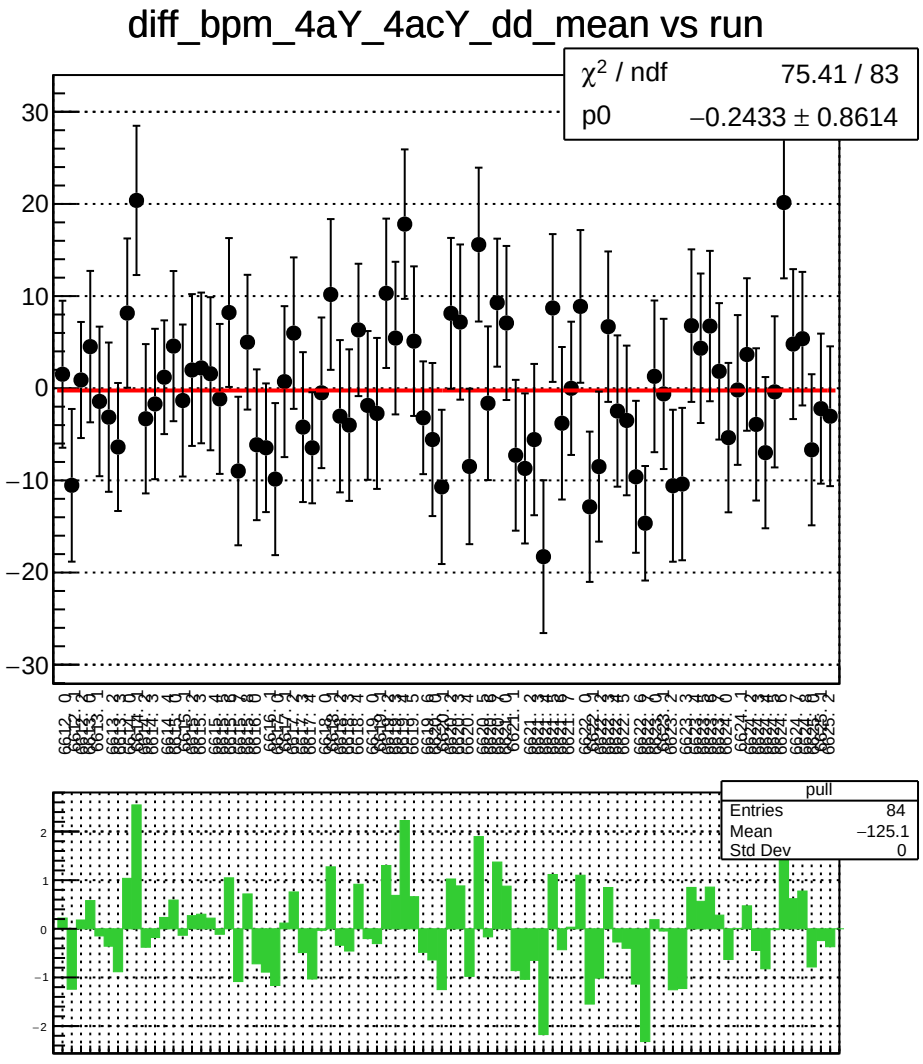

pull1D
Entries 84
Mean 0.002959
Std Dev 1.046

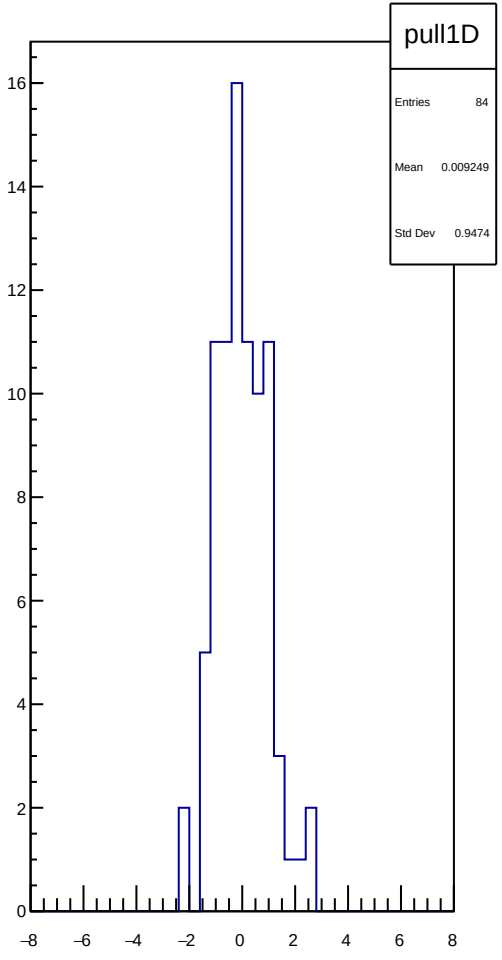

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 927.1 / 83
p0 312.6 ± 0.2447
370
360
350
340
330
320
310
300

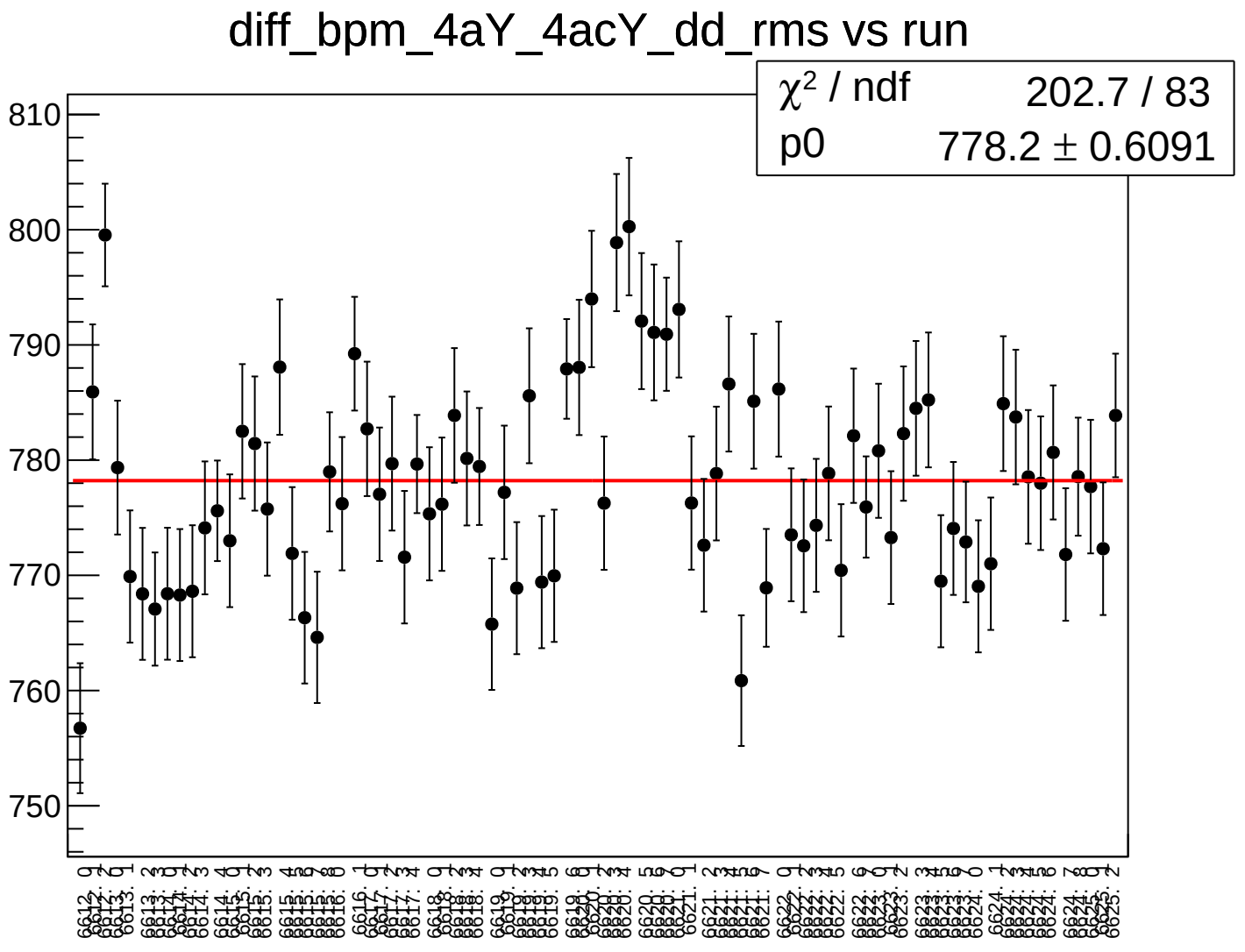

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 76.85 / 83
p0 10.39 ± 7.601
200
100
0
−100
−200
pull
Entries 84
Mean 227.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

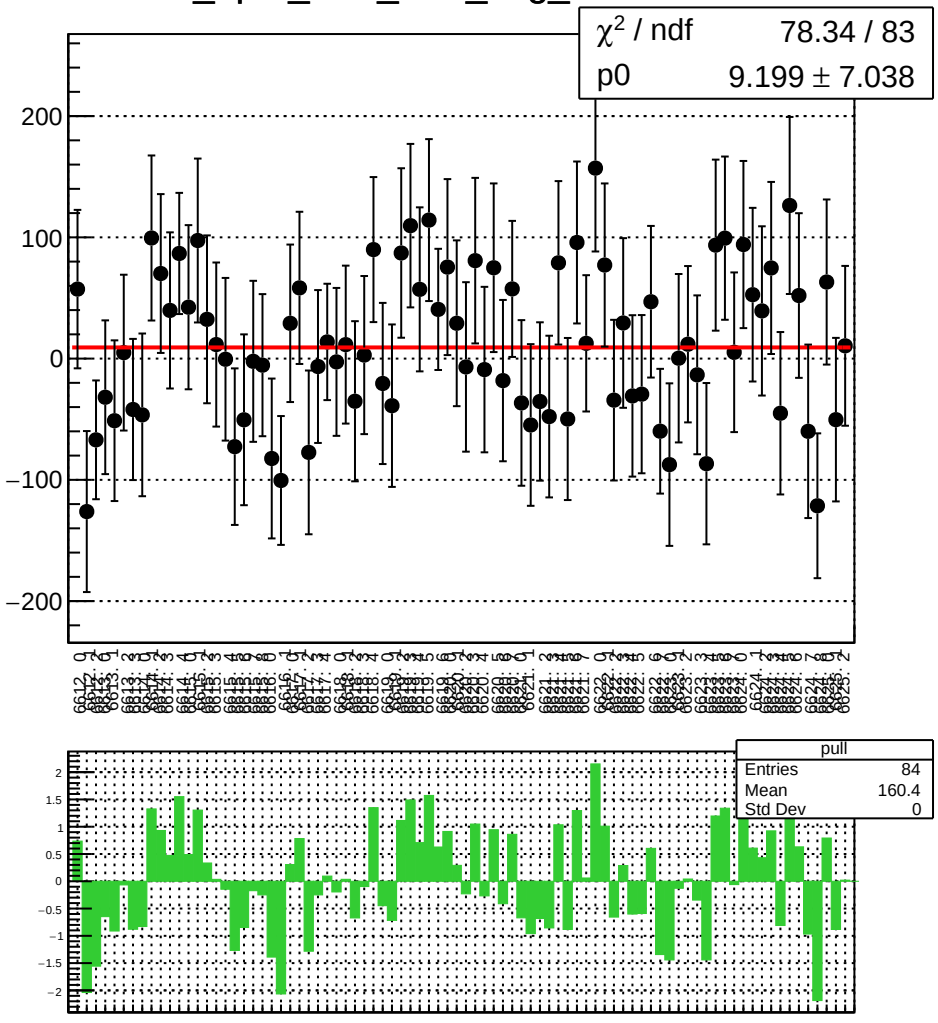

pull1D
Entries 84
Mean 0.0134
Std Dev 0.9564
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

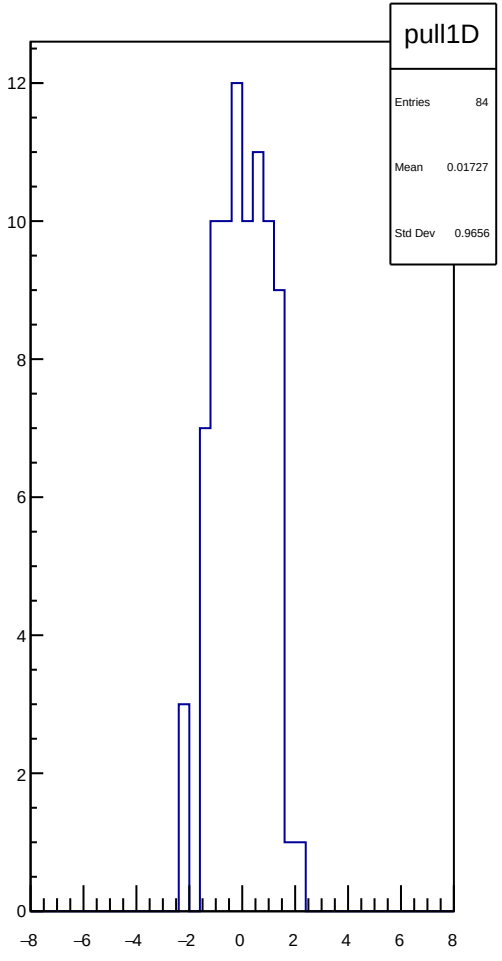

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 3026 / 83
p0 6861 ± 5.375
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

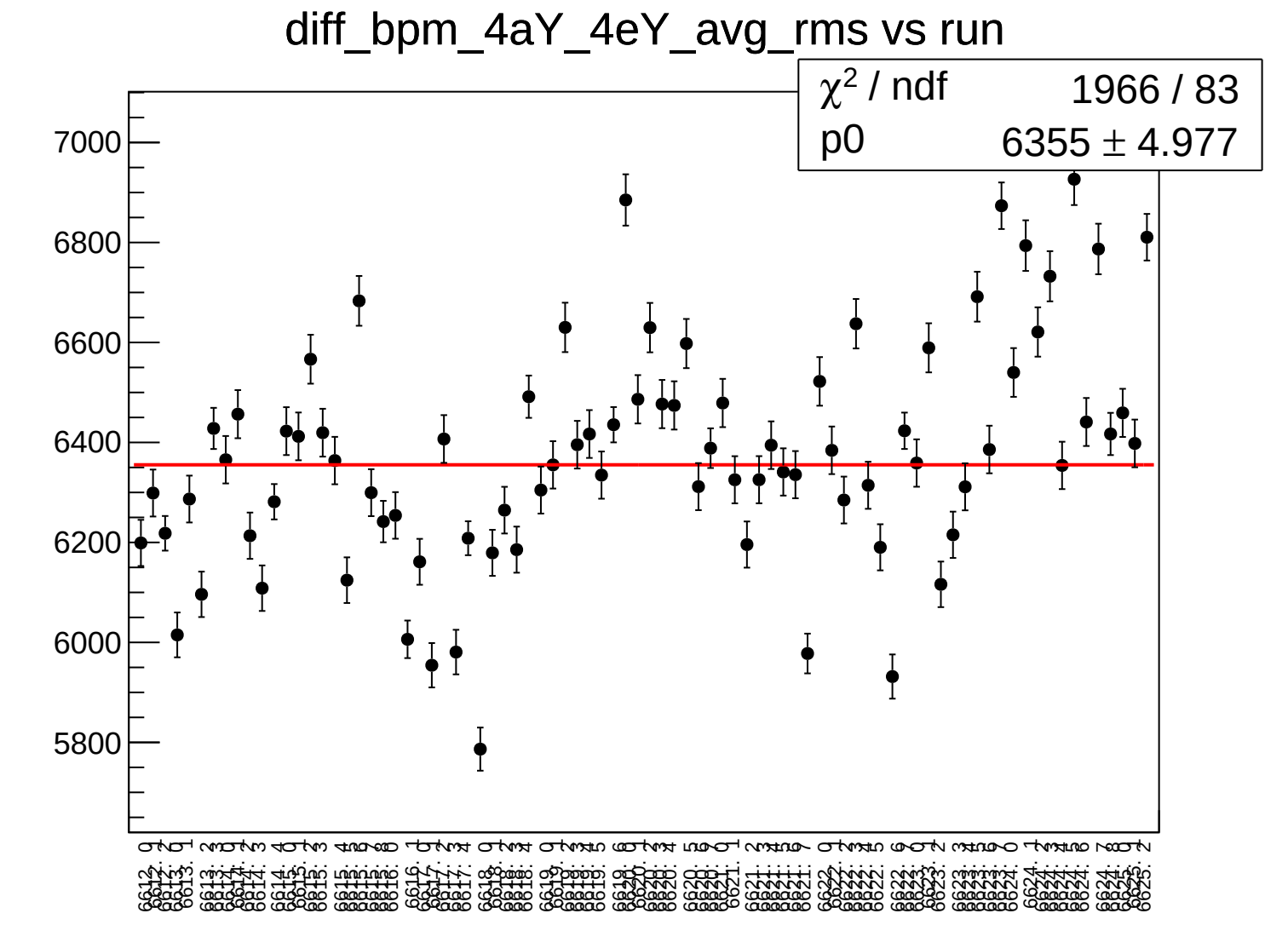

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 75.41 / 83
p0 −0.2433 ± 0.8614
pull
Entries 84
Mean −125.1
Std Dev 0

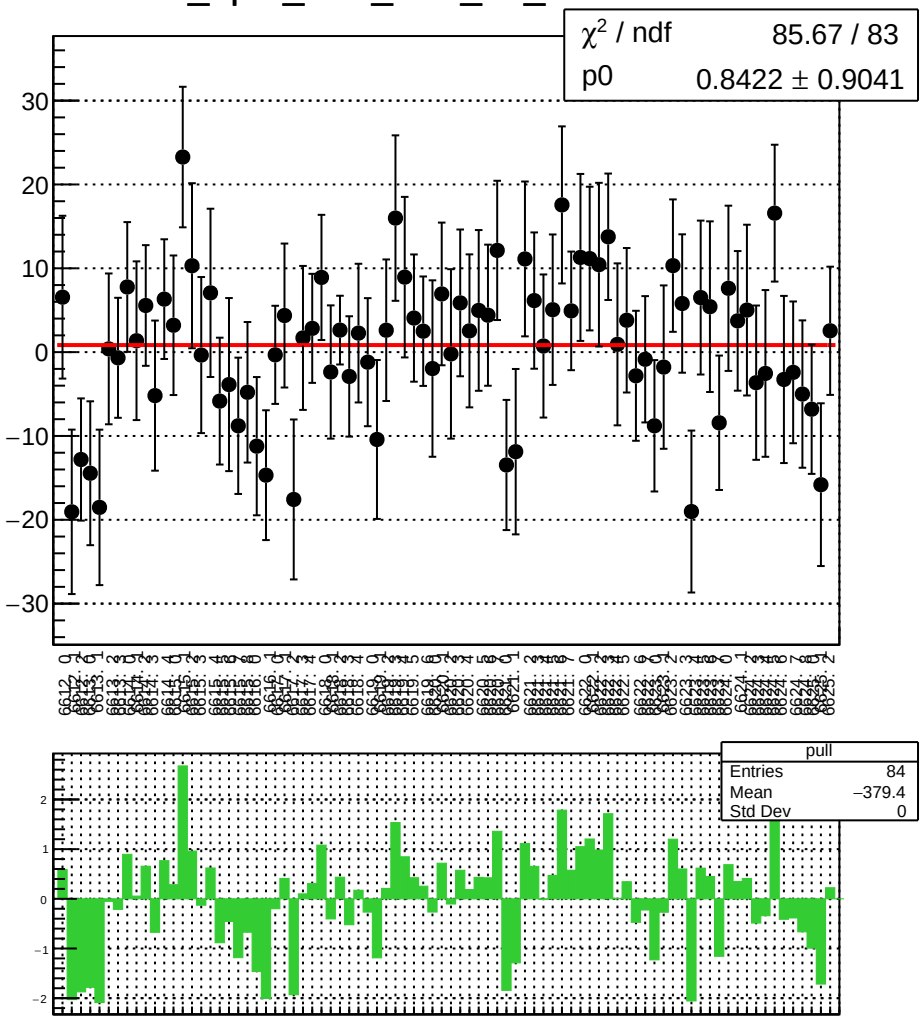

pull1D
Entries 84
Mean 0.009249
Std Dev 0.9474

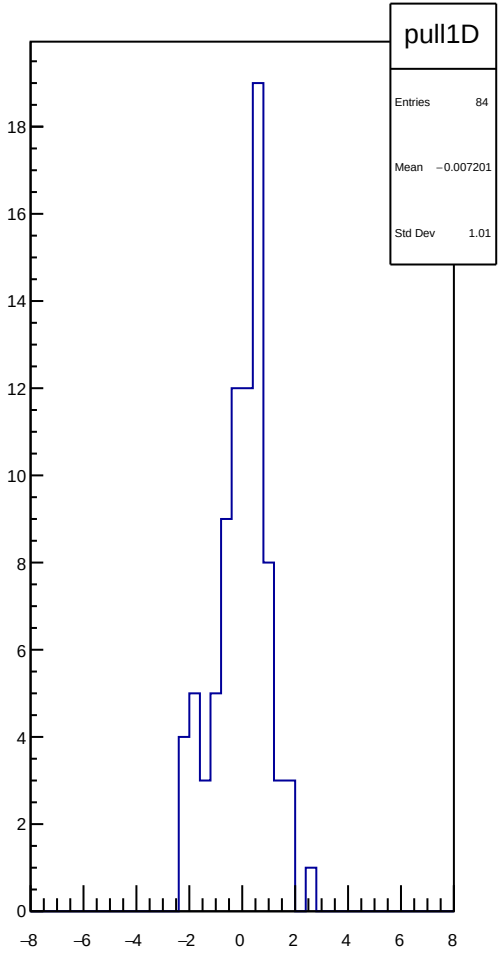

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 202.7 / 83
p0 778.2 ± 0.6091
810
800
790
780
770
760
750

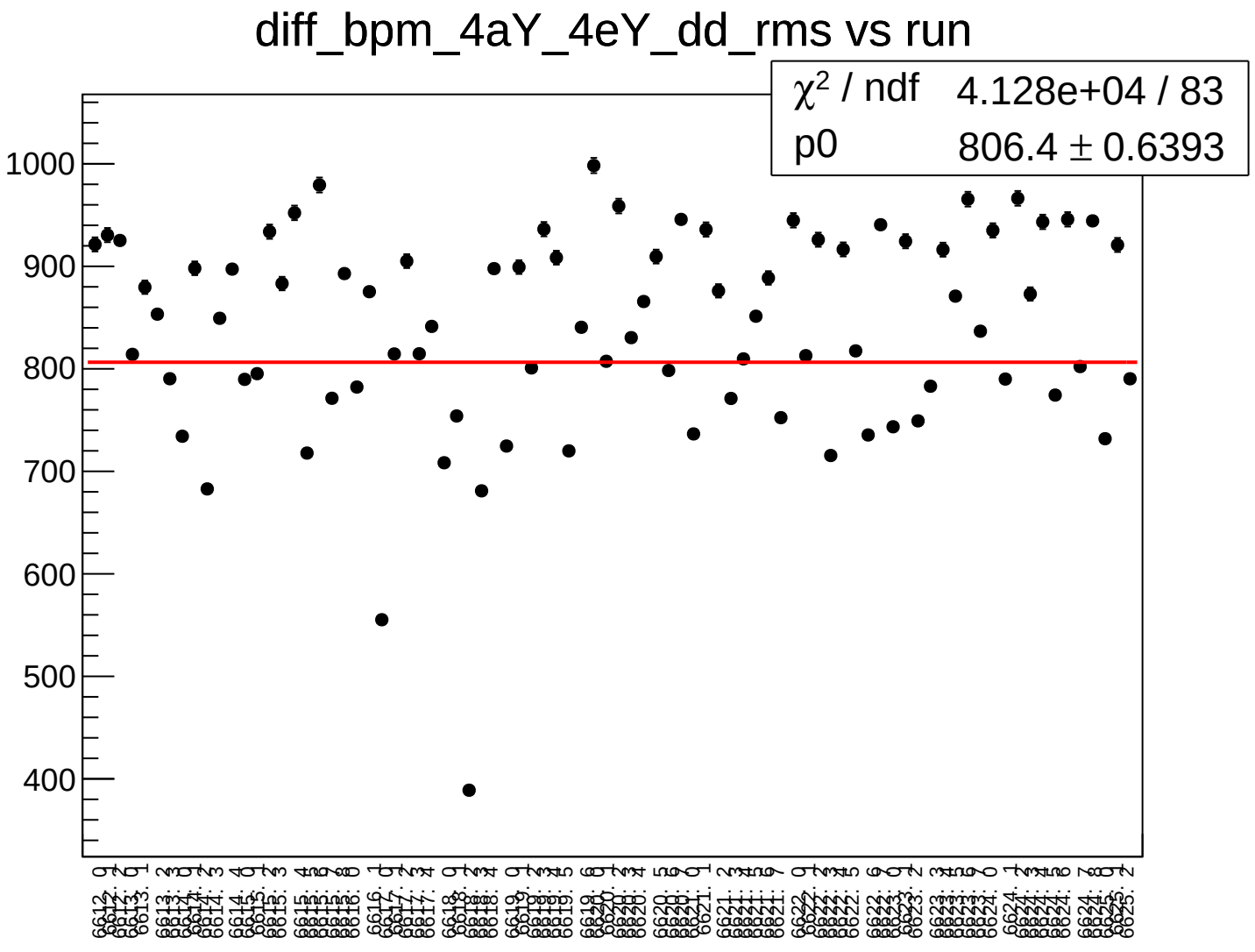

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 78.34 / 83
p0 9.199 ± 7.038
200
100
0
−100
−200
pull
Entries 84
Mean 160.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

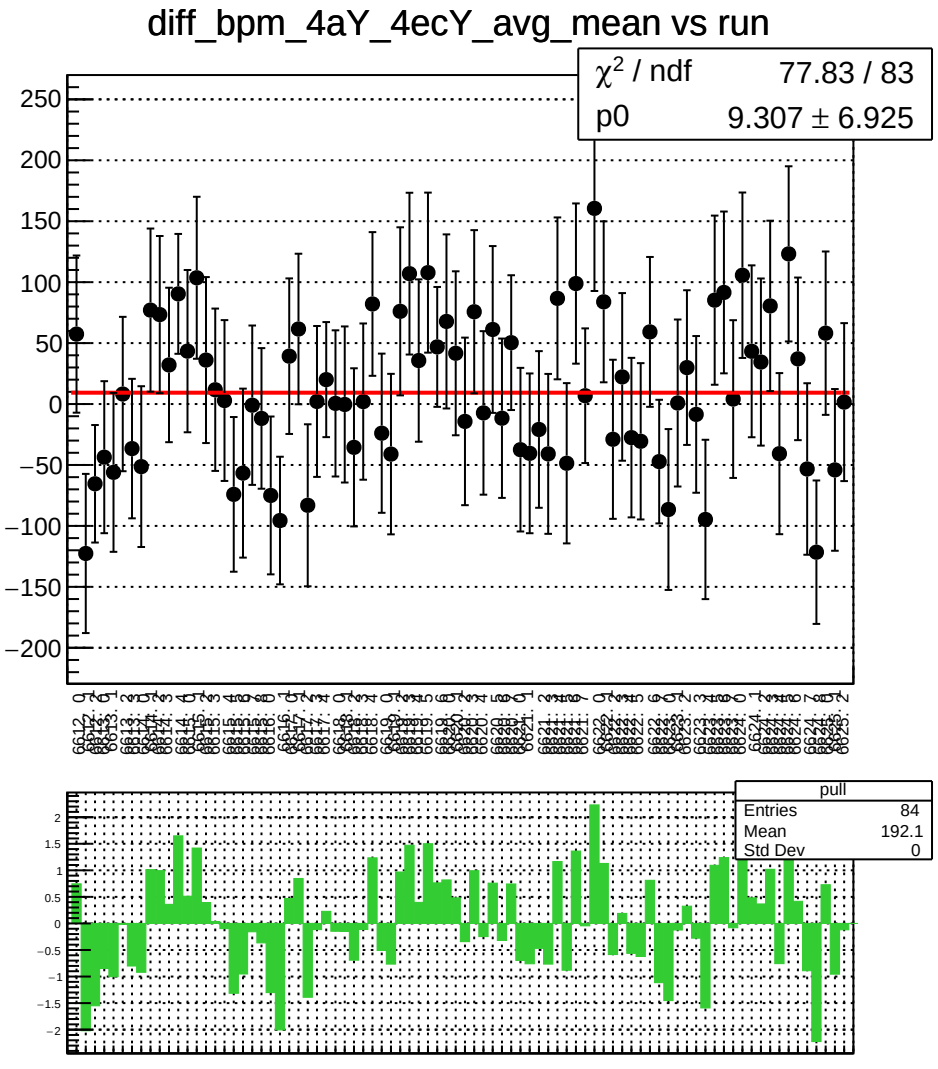

pull1D
Entries 84
Mean 0.01727
Std Dev 0.9656
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

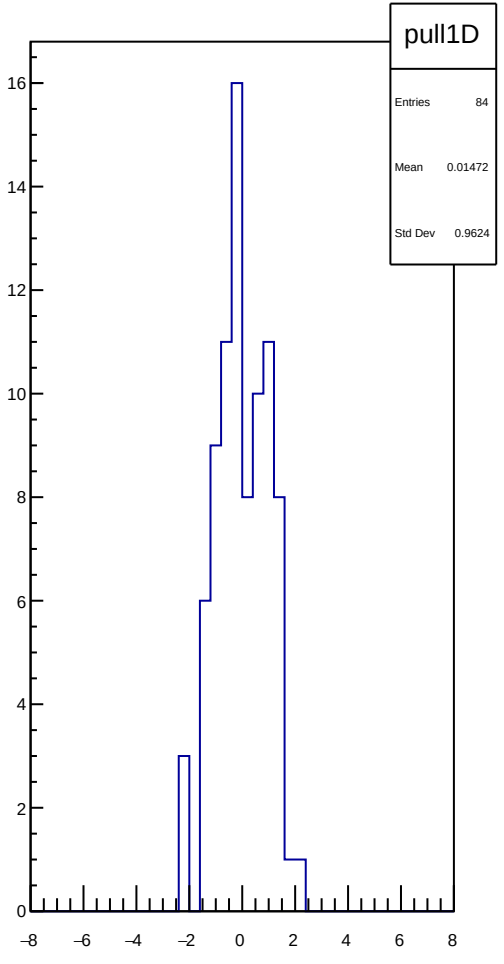

diff_bpm_4aY_4eY_avg_rms vs run
χ^2 / ndf 1966 / 83
p0 6355 ± 4.977
7000
6800
6600
6400
6200
6000
5800

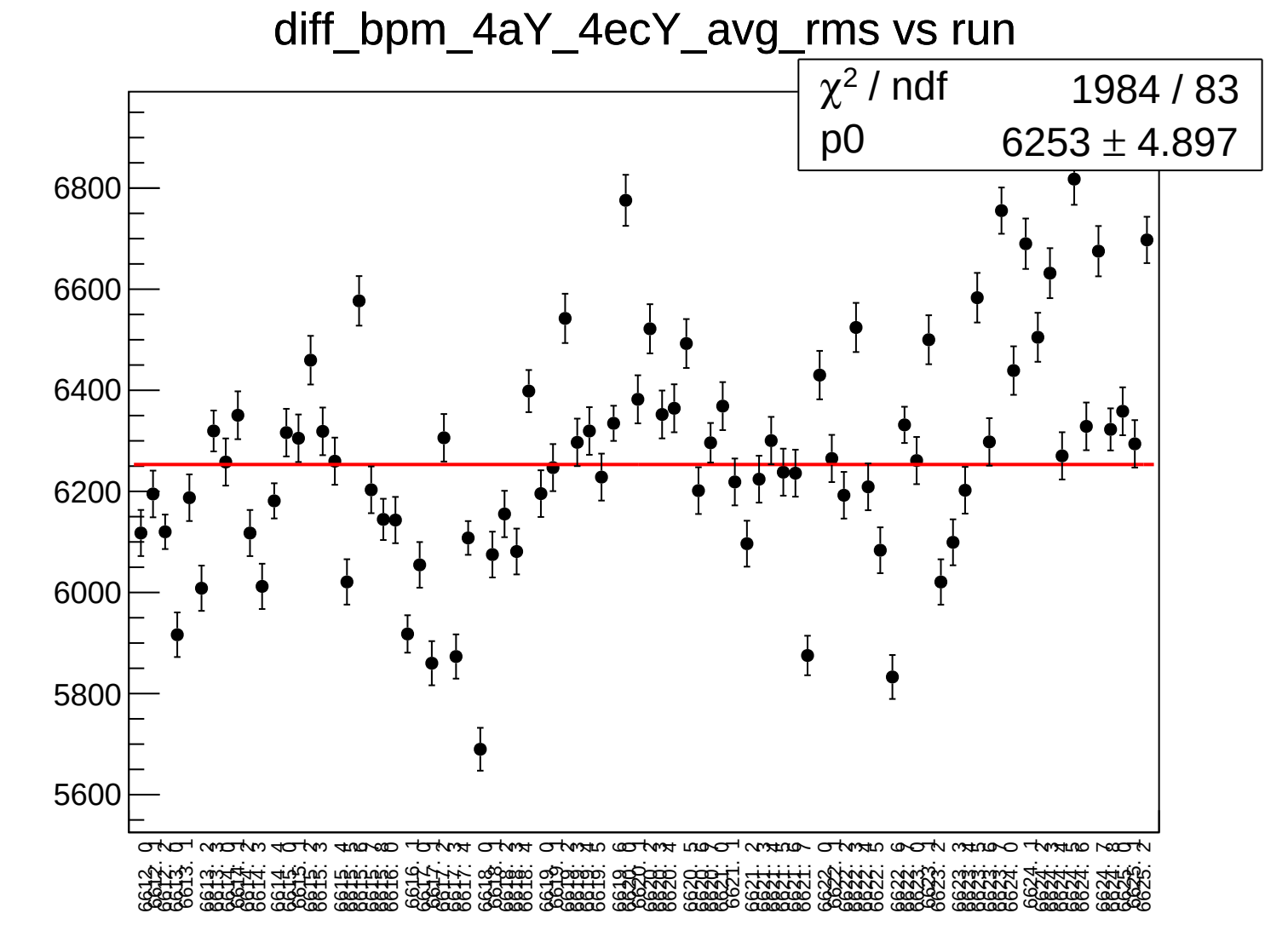

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 85.67 / 83
p0 0.8422 ± 0.9041
pull
Entries 84
Mean −379.4
Std Dev 0

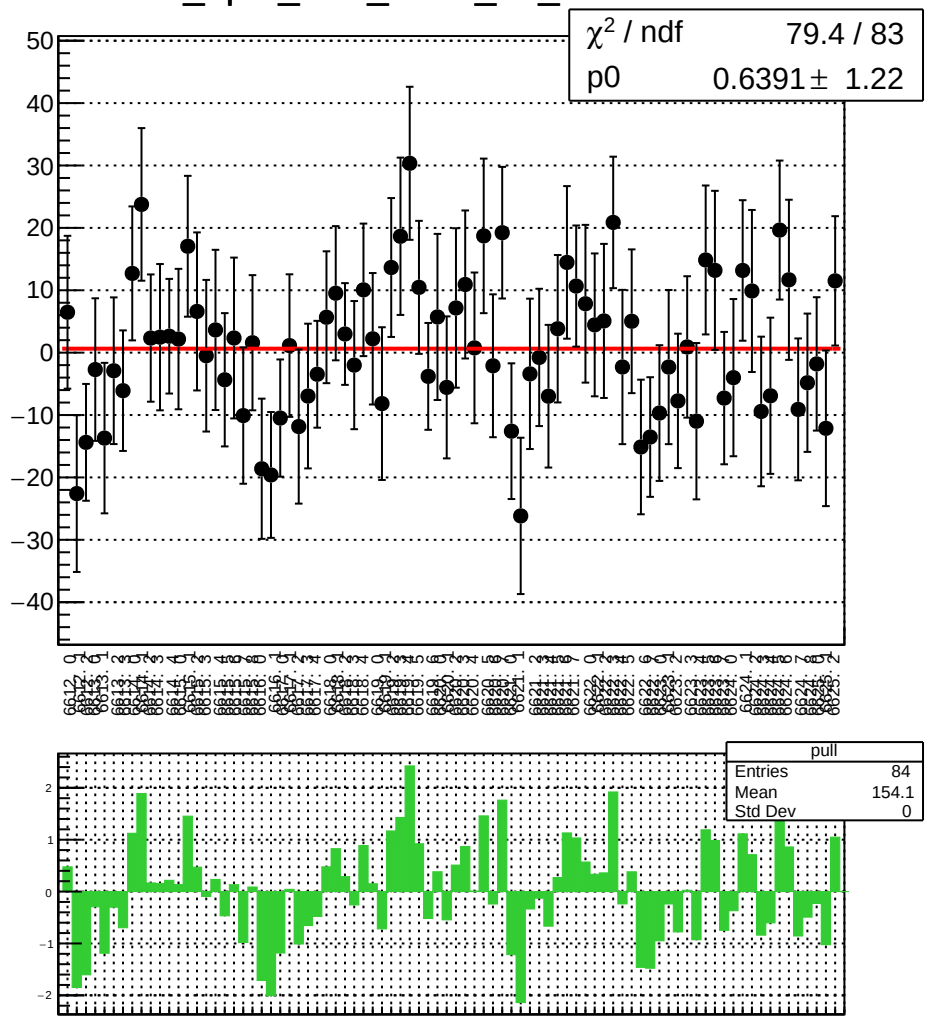

pull1D
Entries 84
Mean −0.007201
Std Dev 1.01

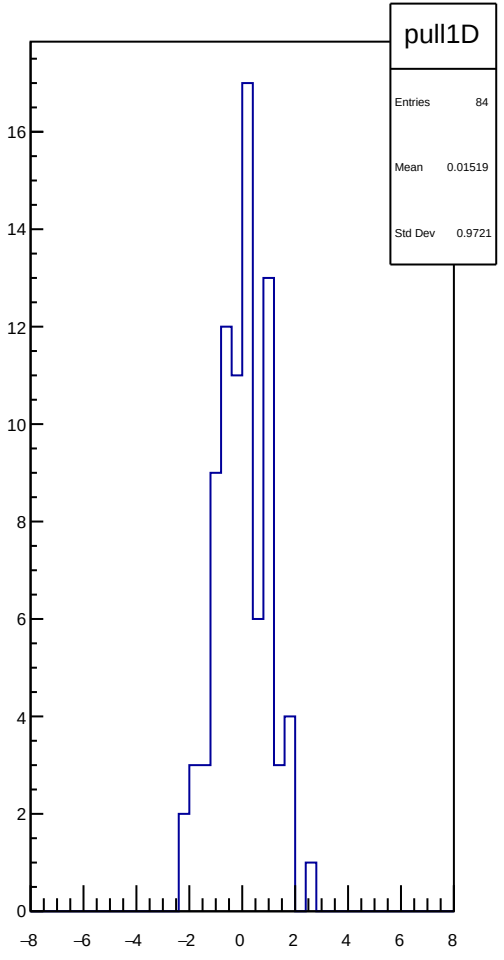

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 4.128e+04 / 83
p0 806.4 ± 0.6393
1000
900
800
700
600
500
400

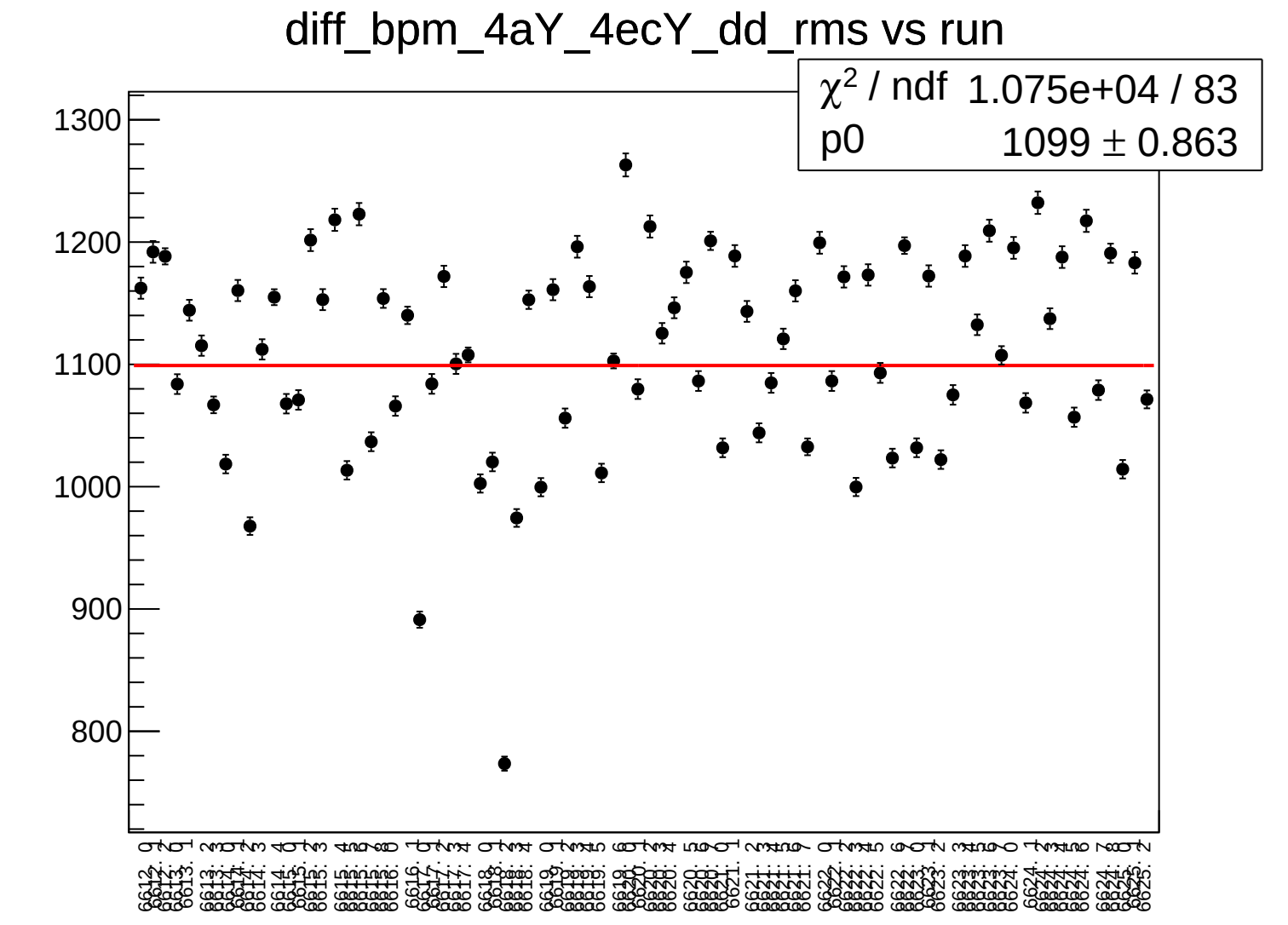

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 77.83 / 83
p0 9.307 ± 6.925
pull
Entries 84
Mean 192.1
Std Dev 0

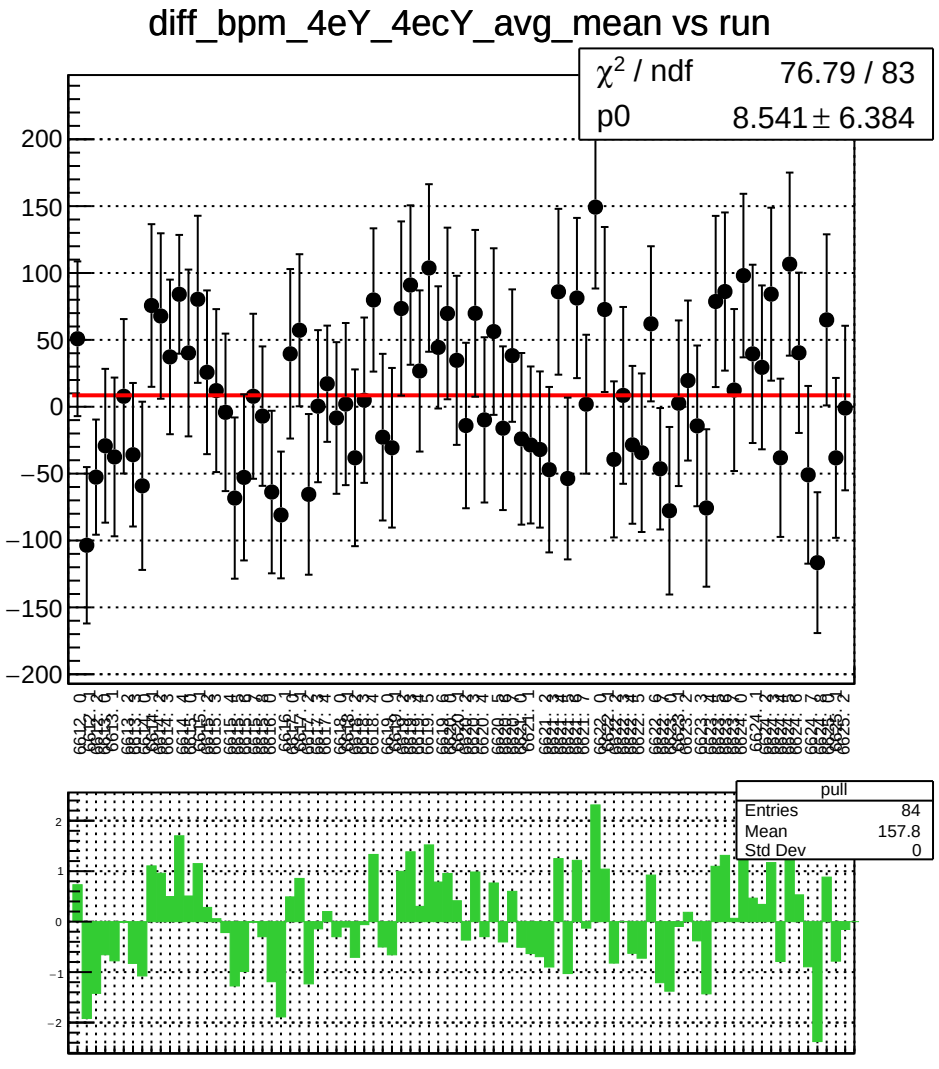

pull1D
Entries 84
Mean 0.01472
Std Dev 0.9624

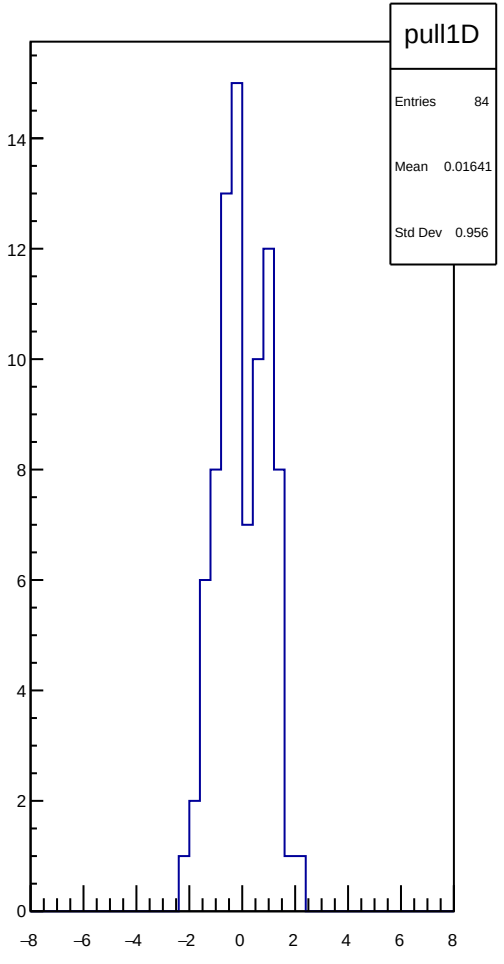

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 1984 / 83
p0 6253 ± 4.897
6800
6600
6400
6200
6000
5800
5600

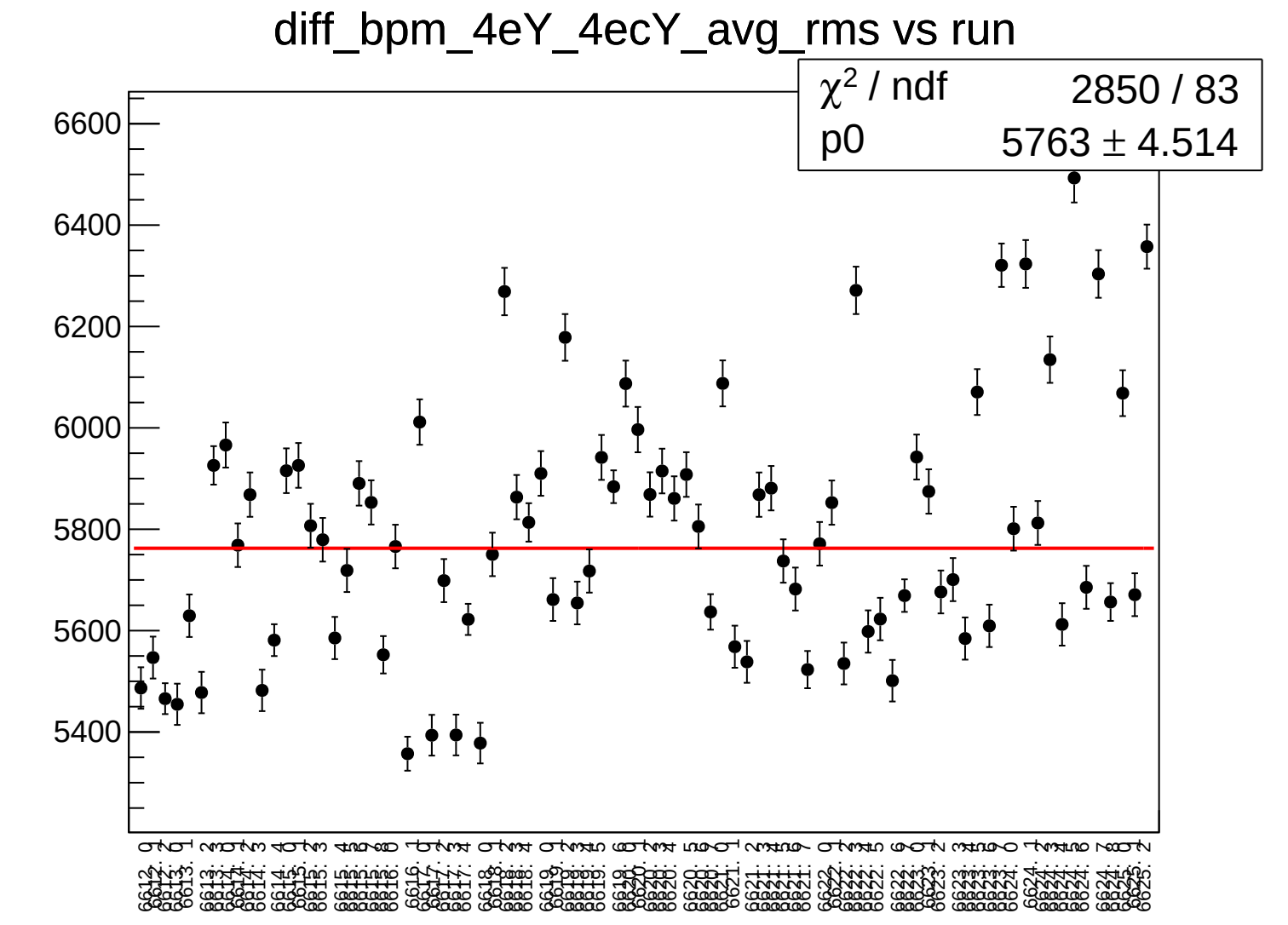

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 79.4 / 83
p0 0.6391 ± 1.22
pull
Entries 84
Mean 154.1
Std Dev 0

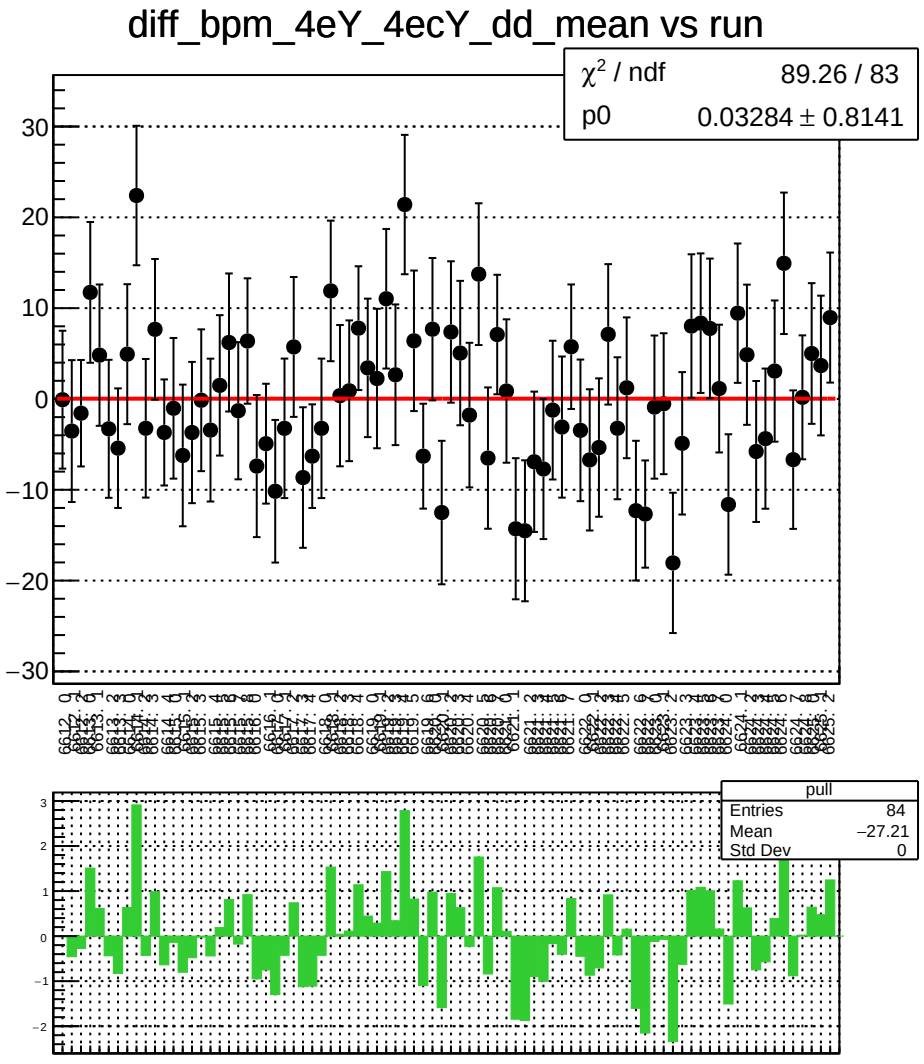

pull1D
Entries 84
Mean 0.01519
Std Dev 0.9721

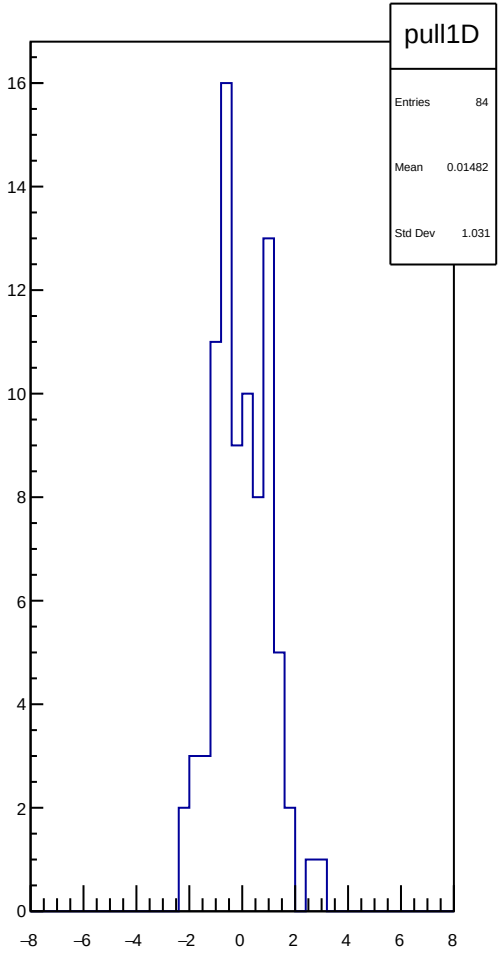

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 1.075e+04 / 83
p0 1099 ± 0.863
1300
1200
1100
1000
900
800

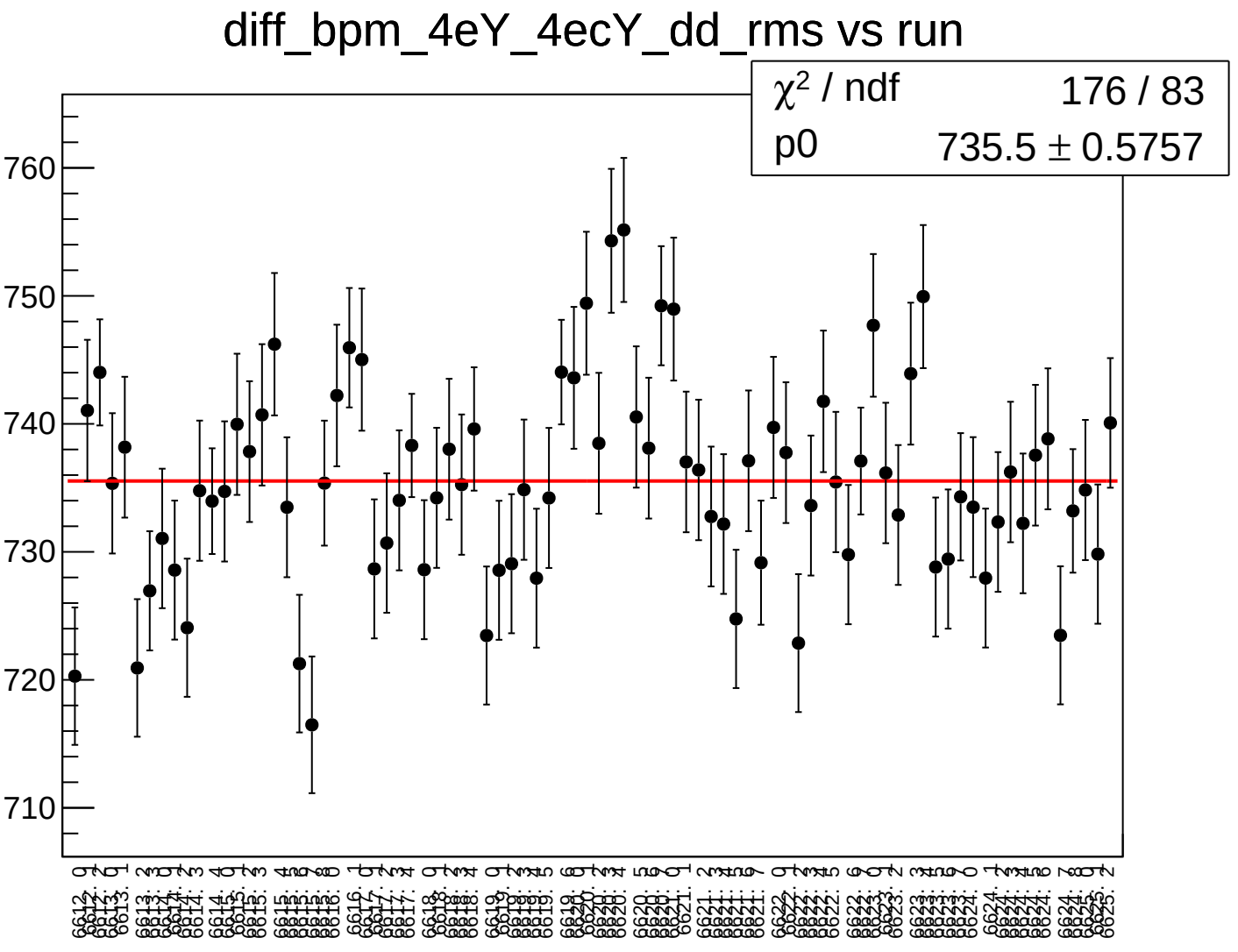

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 76.79 / 83
p0 8.541 ± 6.384
pull
Entries 84
Mean 157.8
Std Dev 0

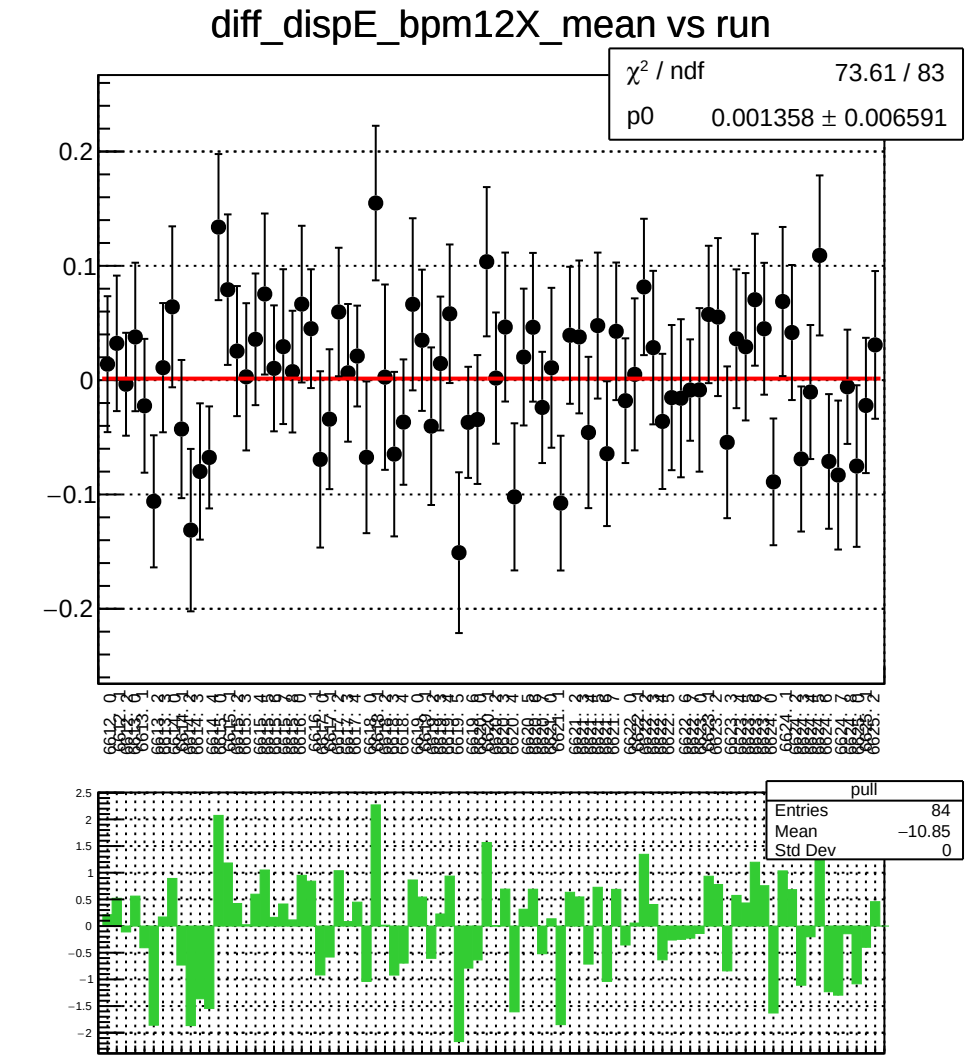

pull1D
Entries 84
Mean 0.01641
Std Dev 0.956

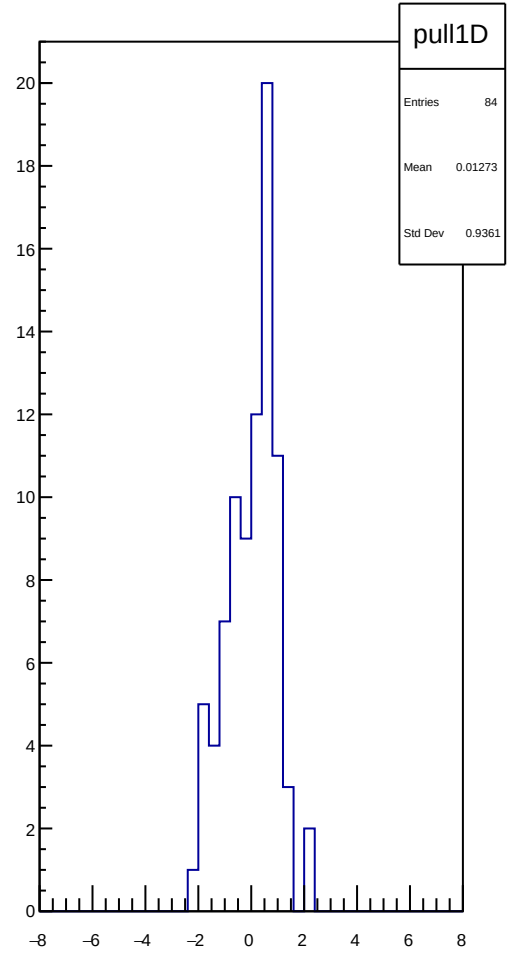

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 2850 / 83
p0 5763 ± 4.514
6600
6400
6200
6000
5800
5600
5400

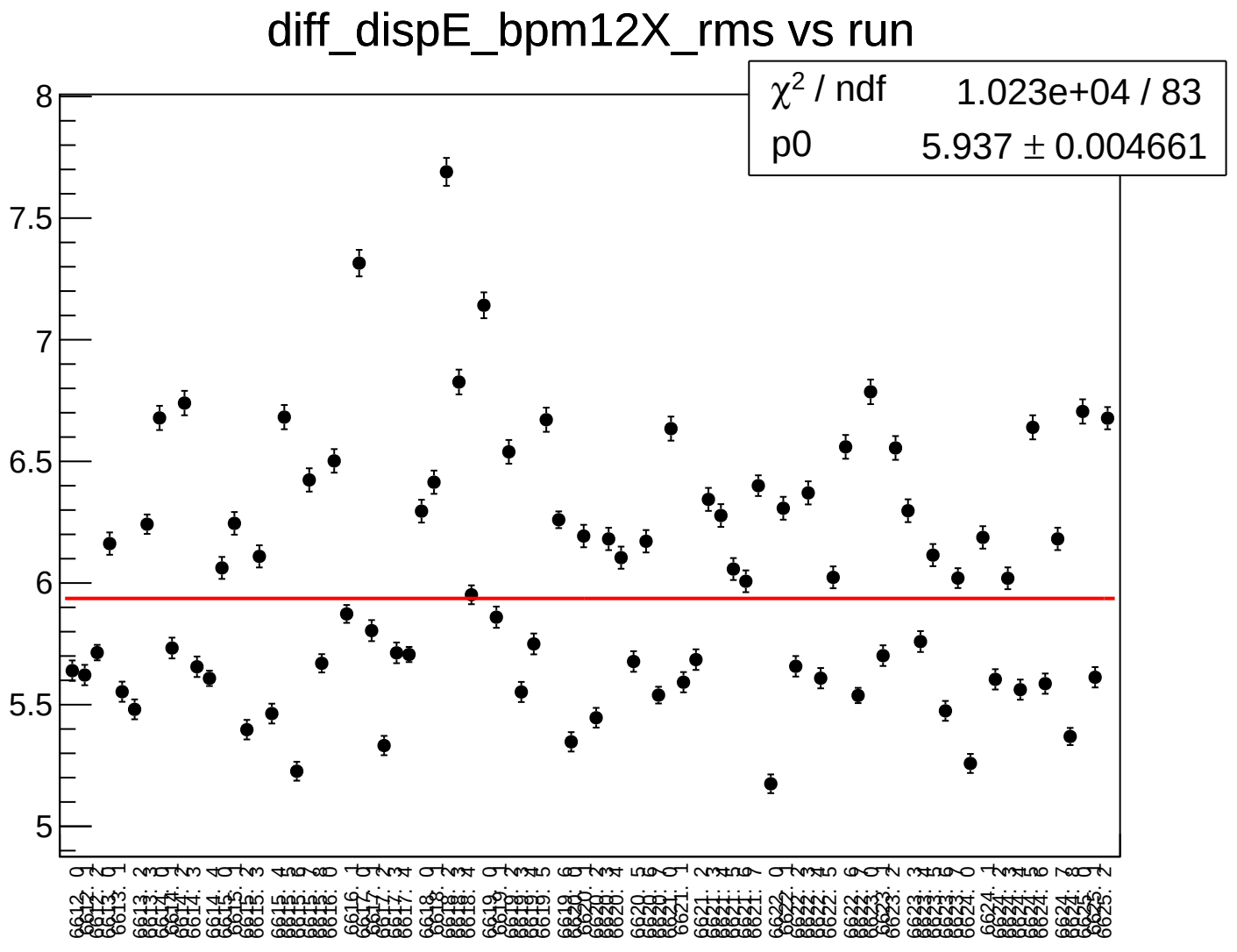

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 89.26 / 83
p0 0.03284 ± 0.8141
pull
Entries 84
Mean −27.21
Std Dev 0

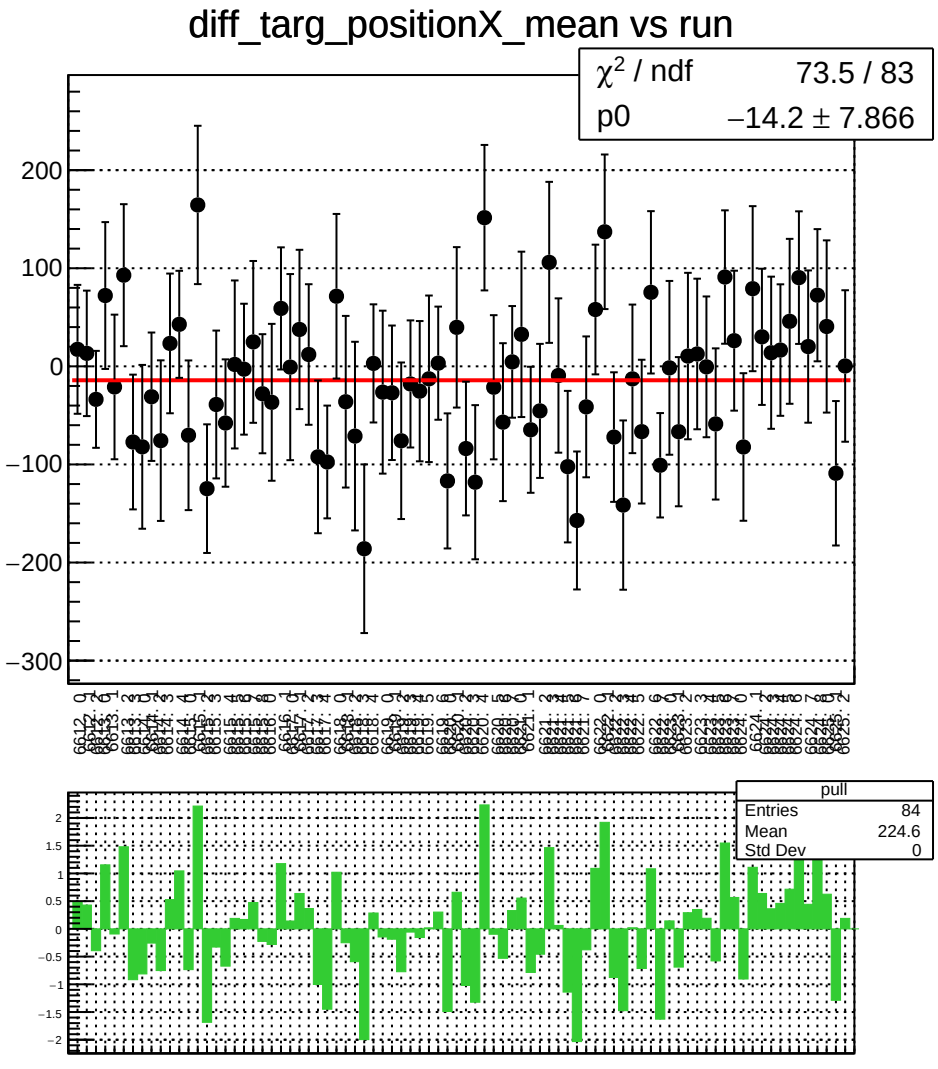

pull1D
Entries 84
Mean 0.01482
Std Dev 1.031

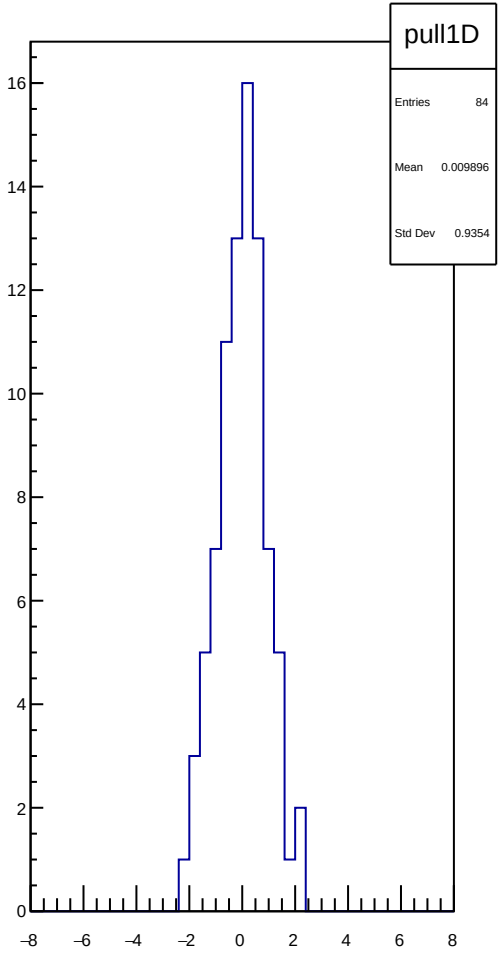

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 176 / 83
p0 735.5 ± 0.5757
760
750
740
730
720
710

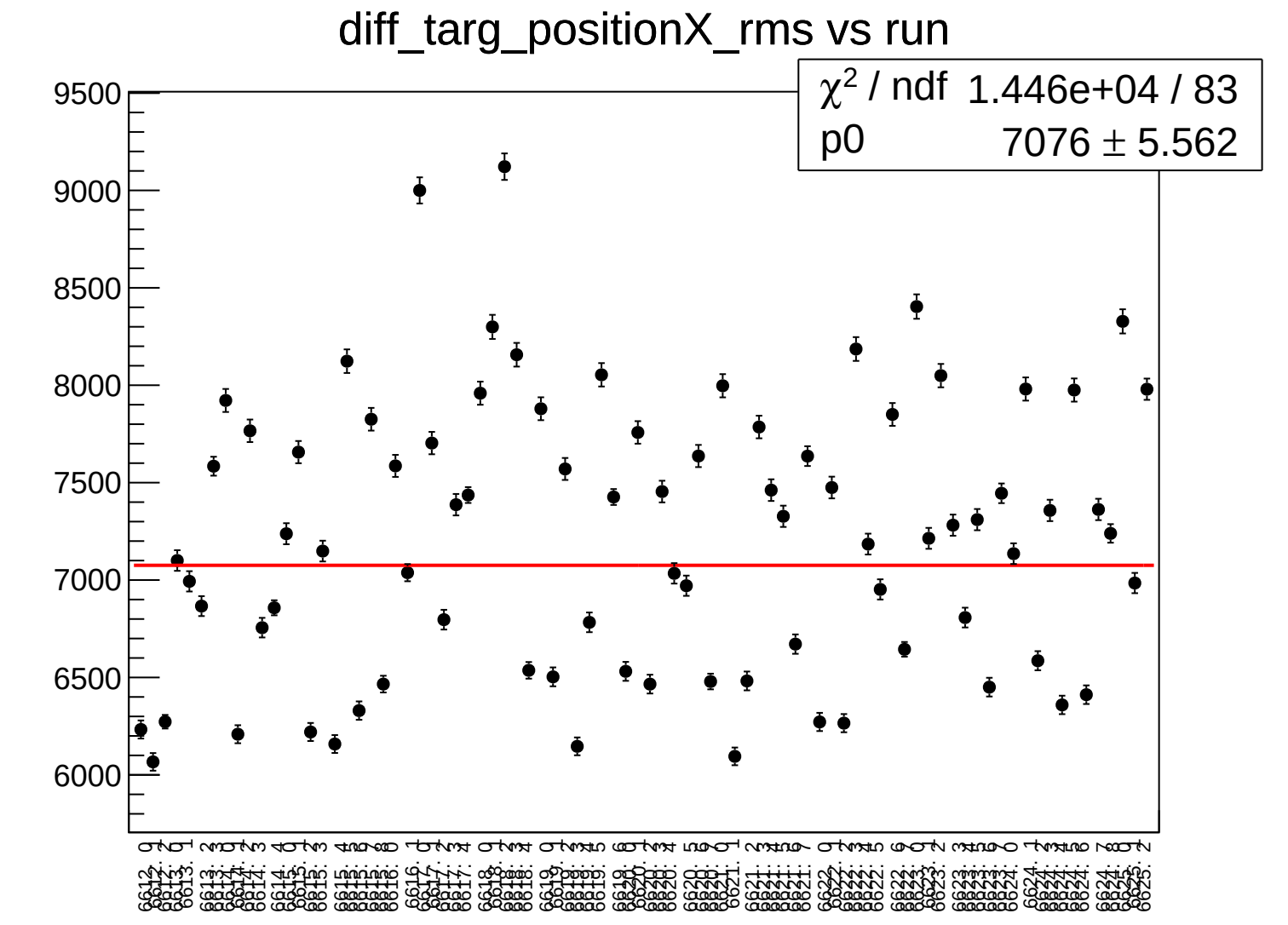

diff_dispE_bpm12X_mean vs run
χ² / ndf 73.61 / 83
p0 0.001358 ± 0.006591
pull
Entries 84
Mean −10.85
Std Dev 0

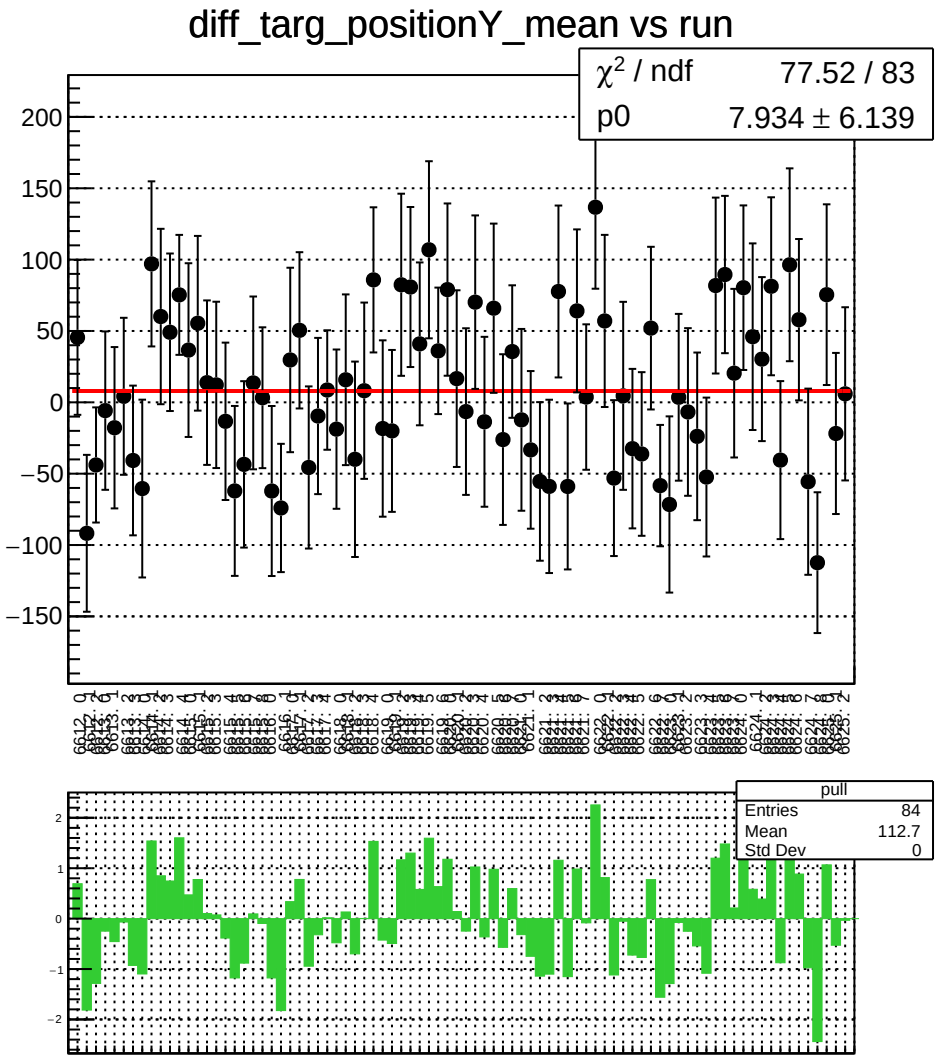

pull1D
Entries 84
Mean 0.01273
Std Dev 0.9361

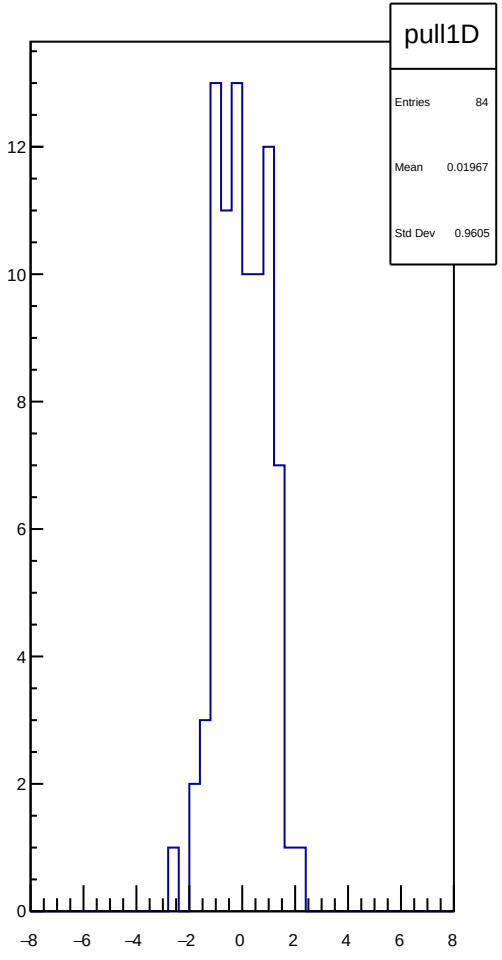

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 1.023e+04 / 83
p0 5.937 ± 0.004661
8
7.5
7
6.5
6
5.5
5

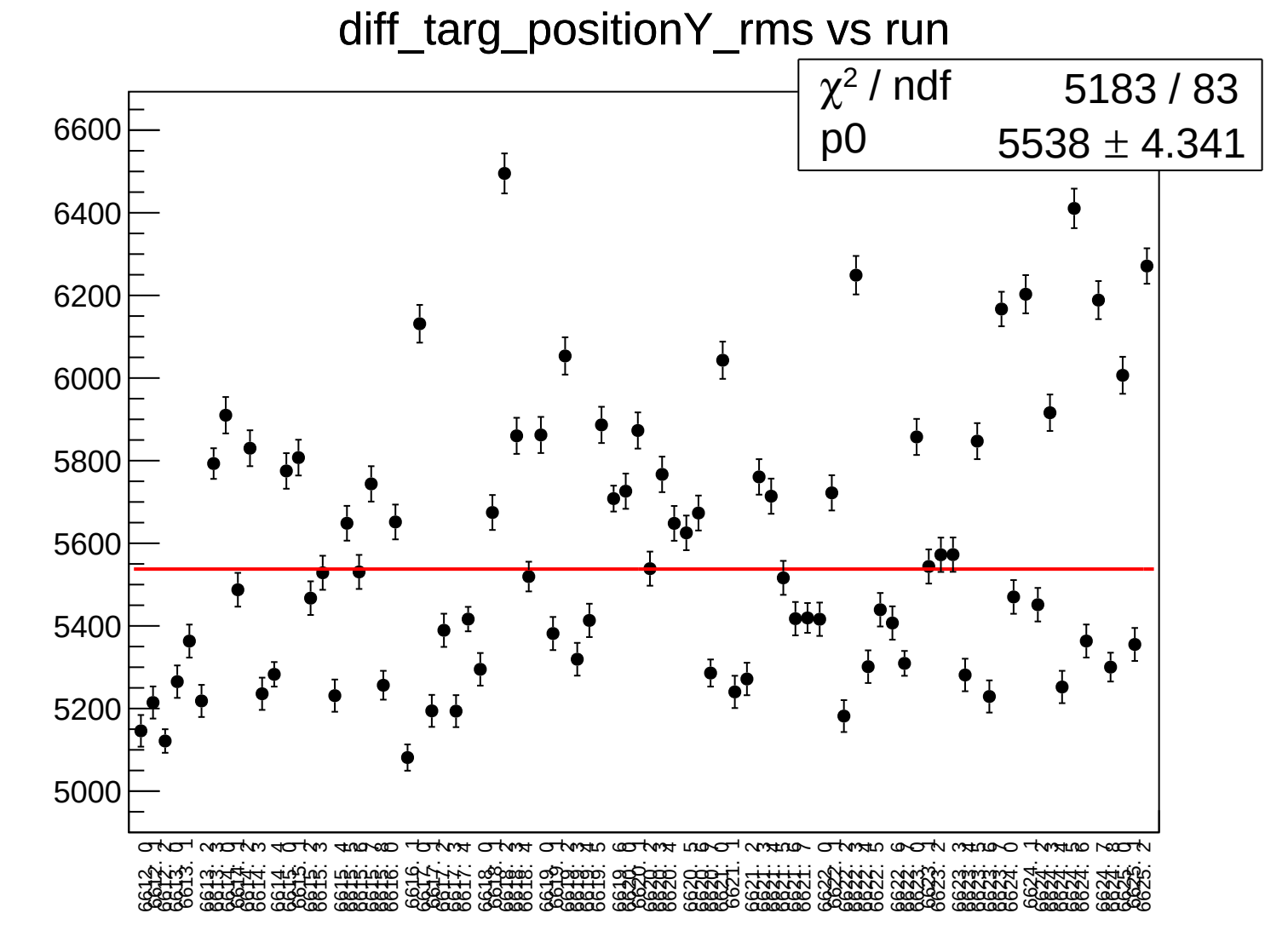

diff_targ_positionX_mean vs run
χ^2 / ndf 73.5 / 83
p0 −14.2 ± 7.866
pull
Entries 84
Mean 224.6
Std Dev 0

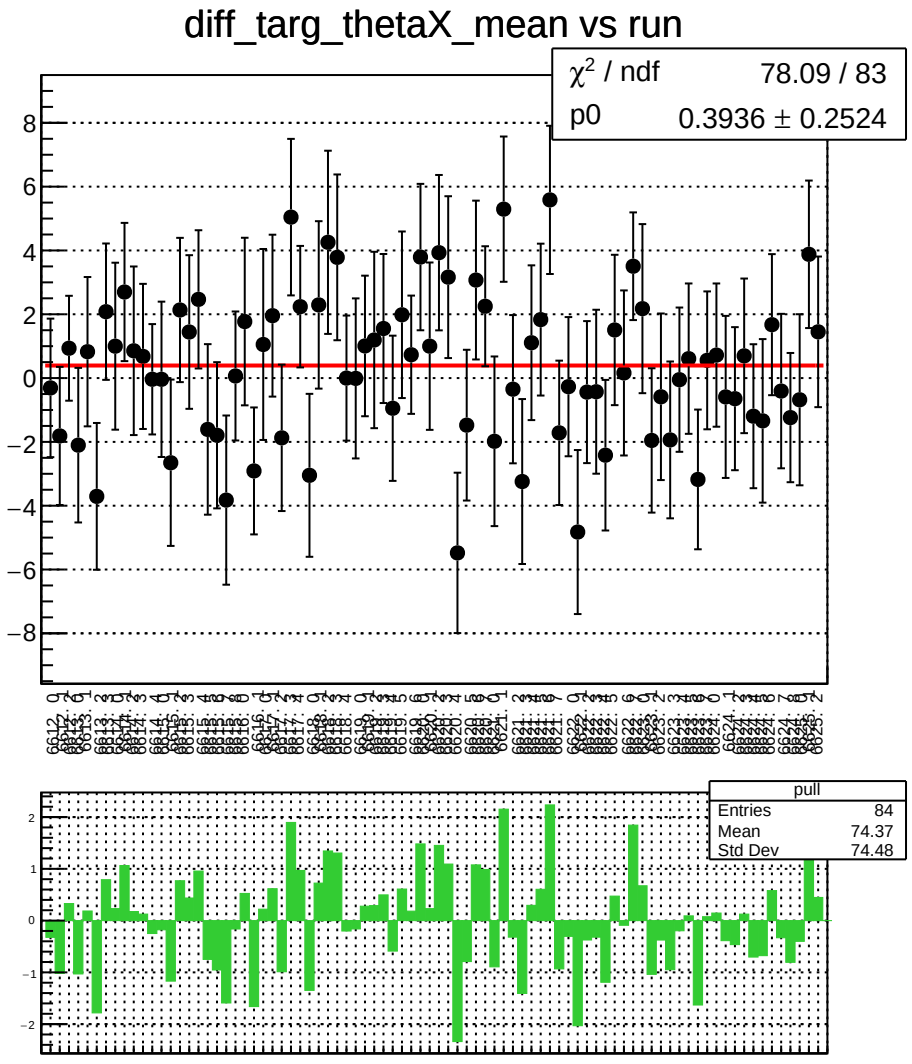

pull1D
Entries 84
Mean 0.009896
Std Dev 0.9354

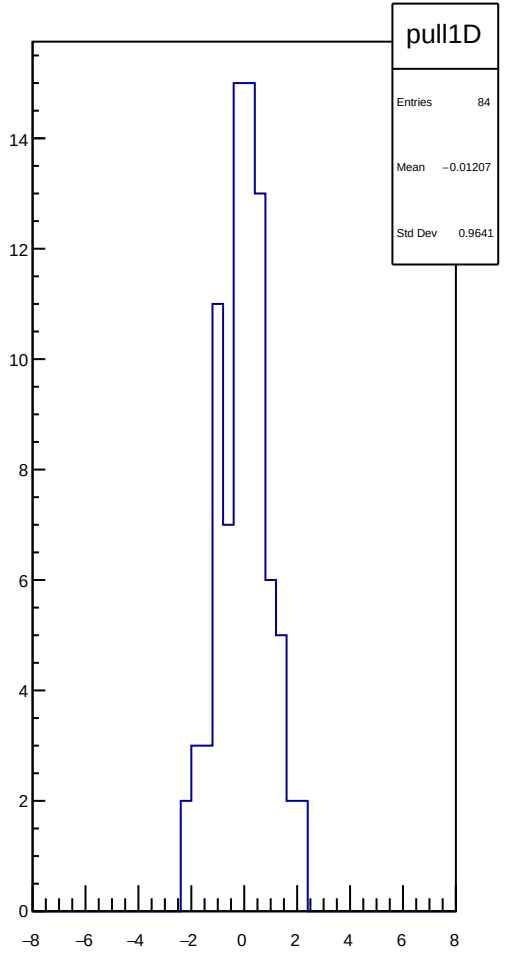

diff_targ_positionX_rms vs run
χ² / ndf 1.446e+04 / 83
p0 7076 ± 5.562
9500
9000
8500
8000
7500
7000
6500
6000

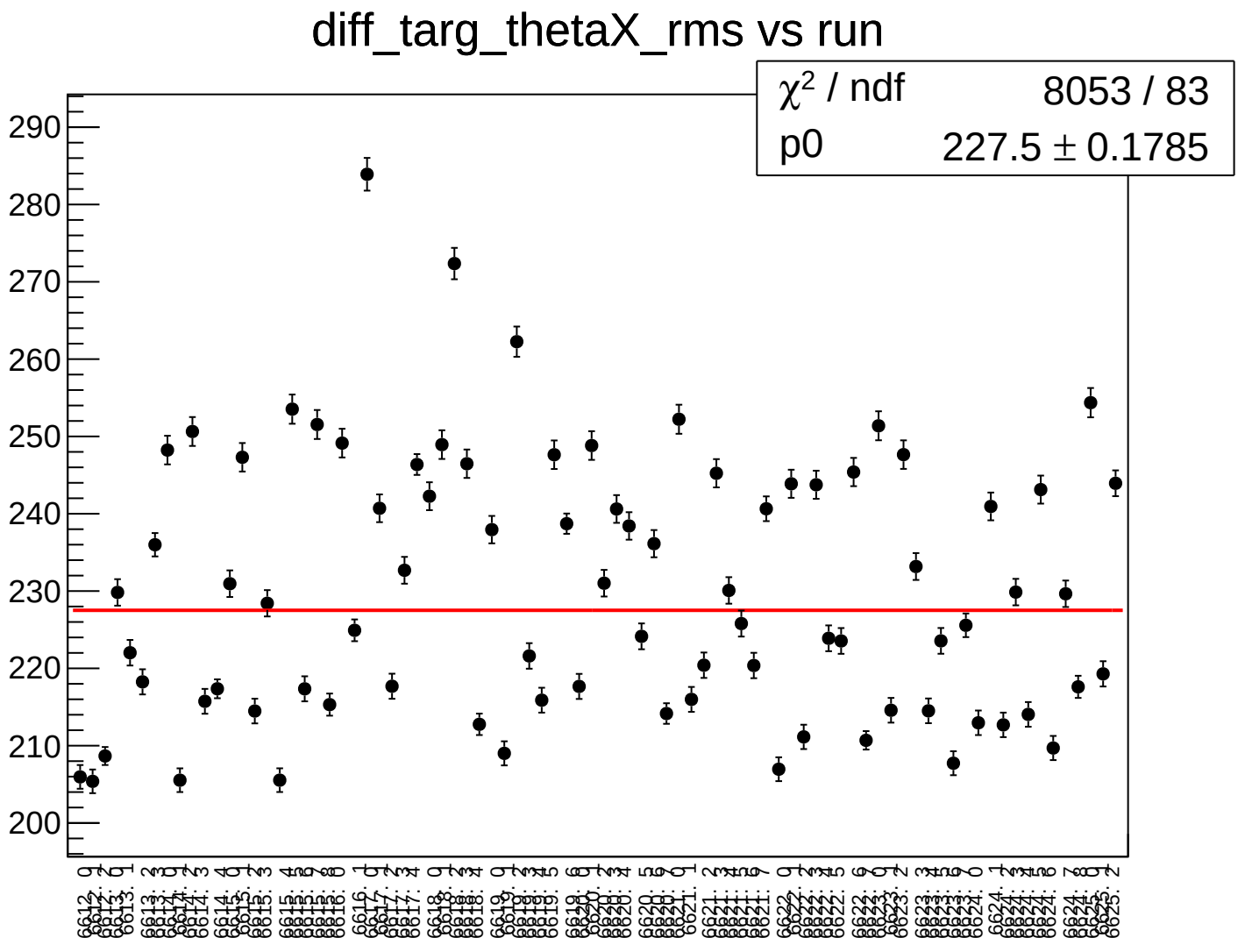

diff_targ_positionY_mean vs run
χ² / ndf 77.52 / 83
p0 7.934 ± 6.139
pull
Entries 84
Mean 112.7
Std Dev 0

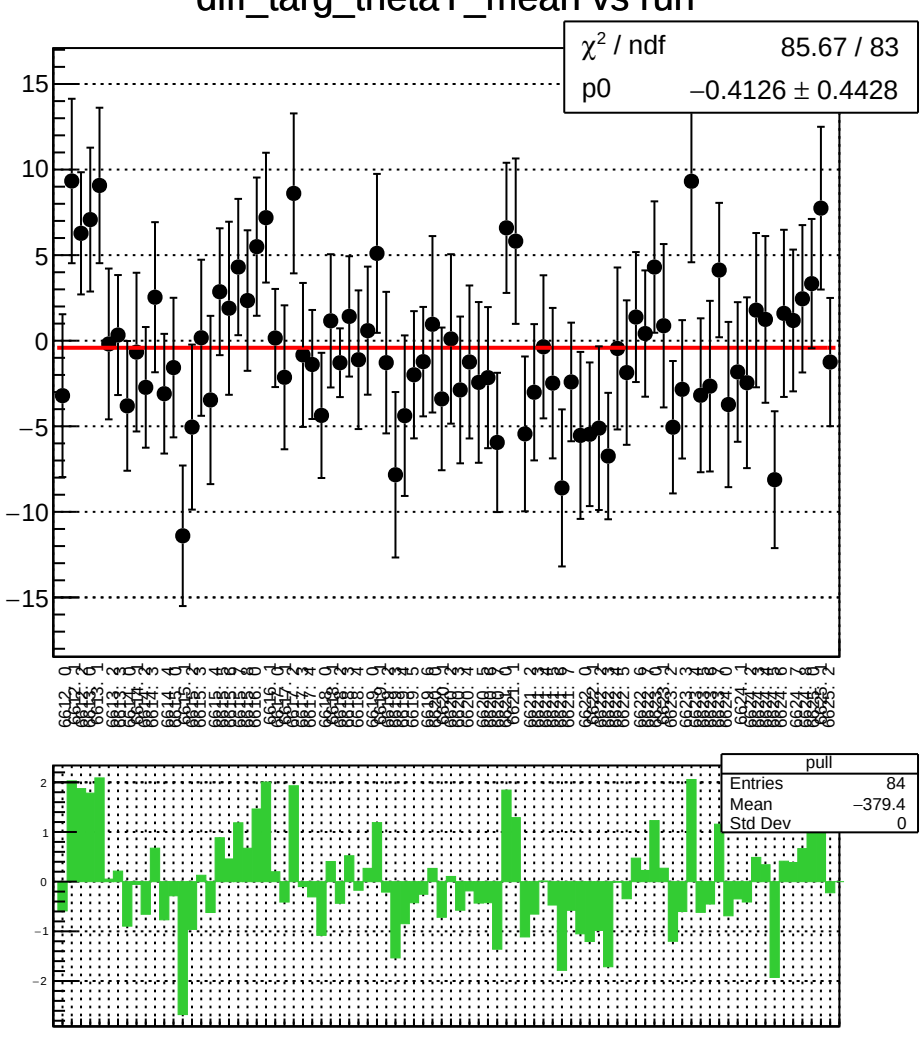

pull1D
Entries 84
Mean 0.01967
Std Dev 0.9605

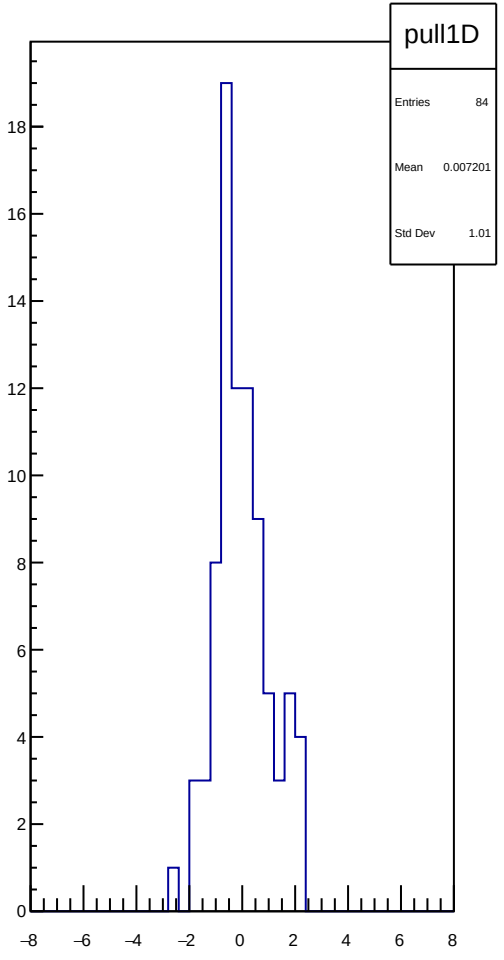

diff_targ_positionY_rms vs run
χ² / ndf 5183 / 83
p0 5538 ± 4.341
6600
6400
6200
6000
5800
5600
5400
5200
5000

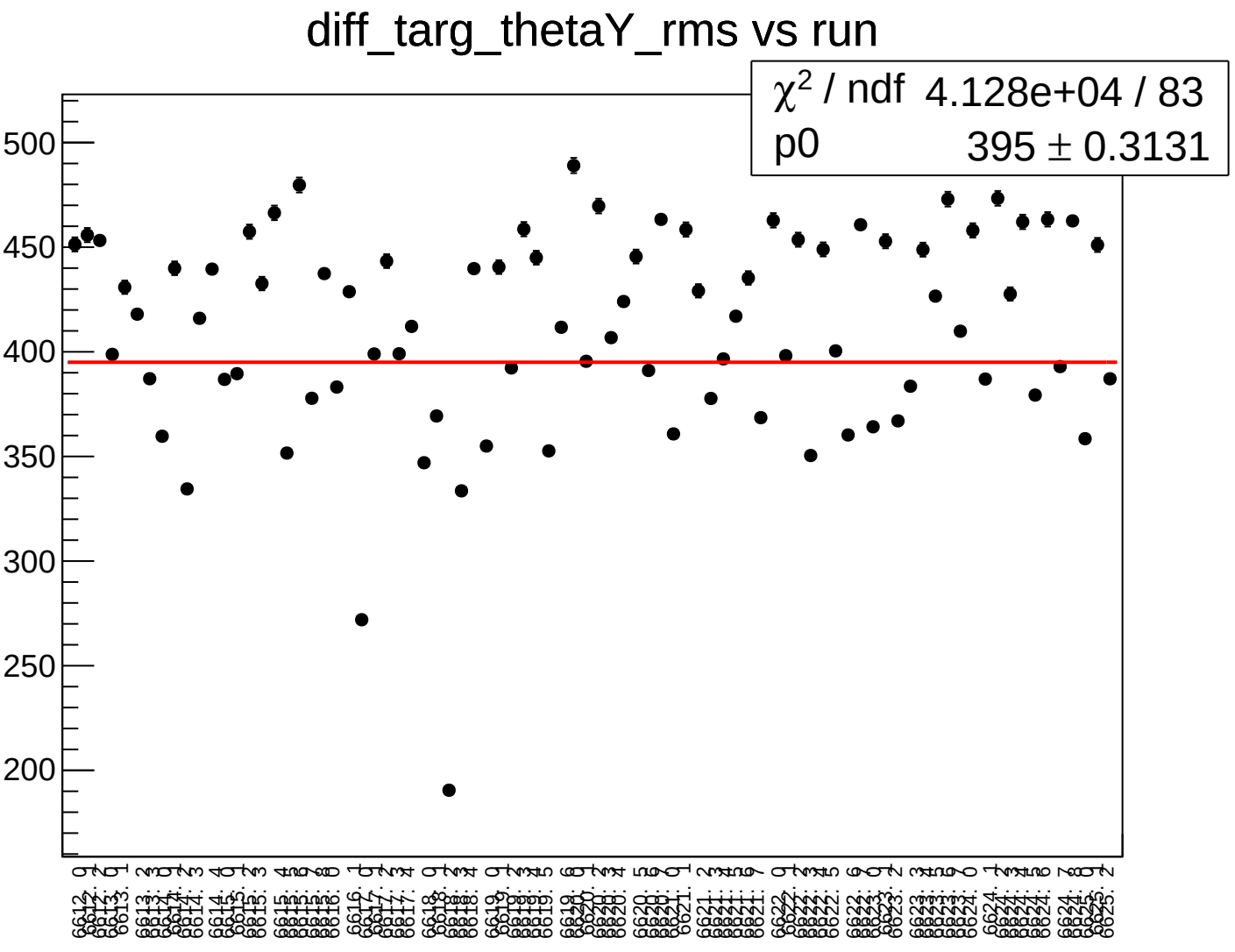

diff_targ_thetaX_mean vs run
χ² / ndf 78.09 / 83
p0 0.3936 ± 0.2524
pull
Entries 84
Mean 74.37
Std Dev 74.48

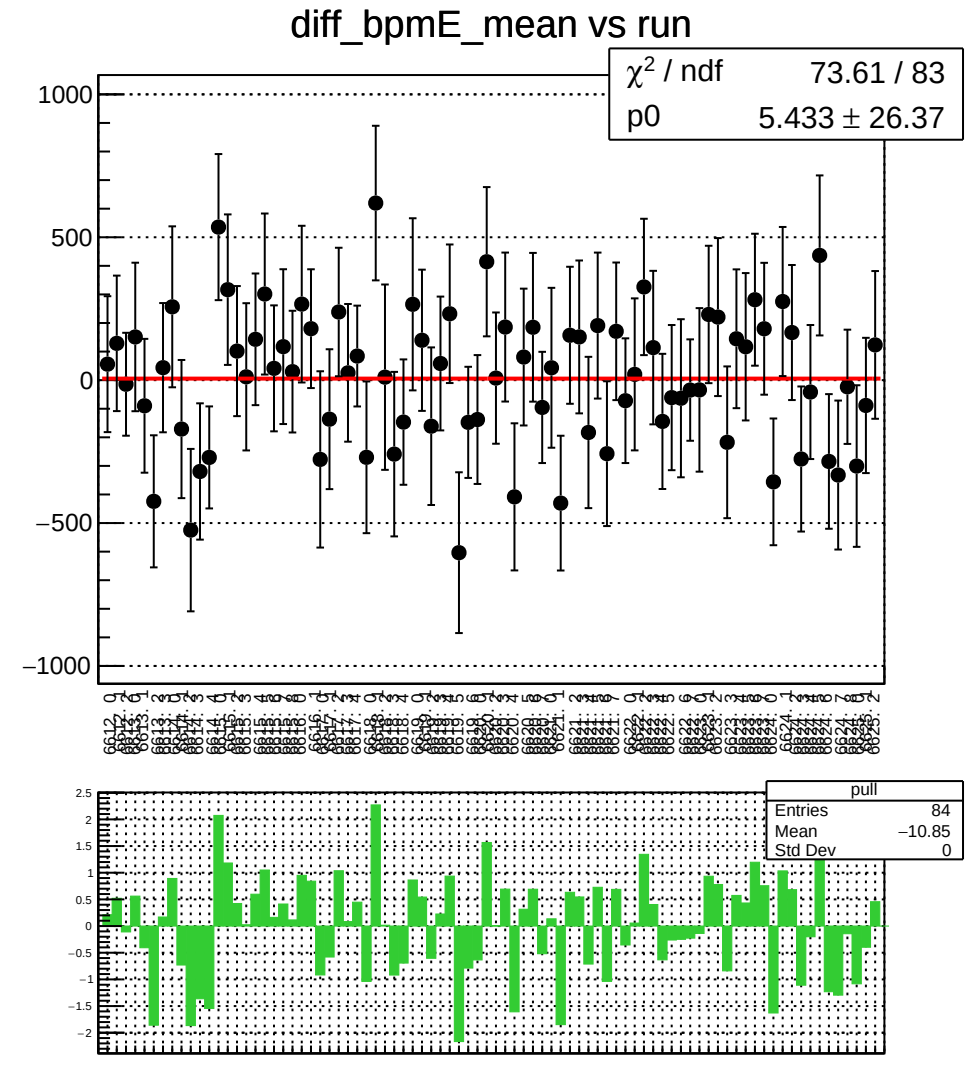

pull1D
Entries 84
Mean −0.01207
Std Dev 0.9641

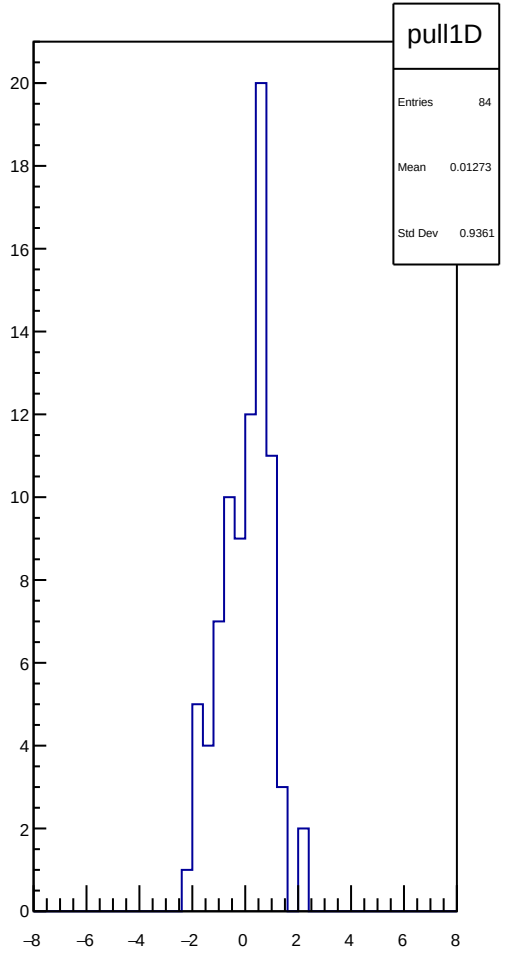

diff_targ_thetaX_rms vs run
χ^2 / ndf 8053 / 83
p0 227.5 ± 0.1785
290
280
270
260
250
240
230
220
210
200

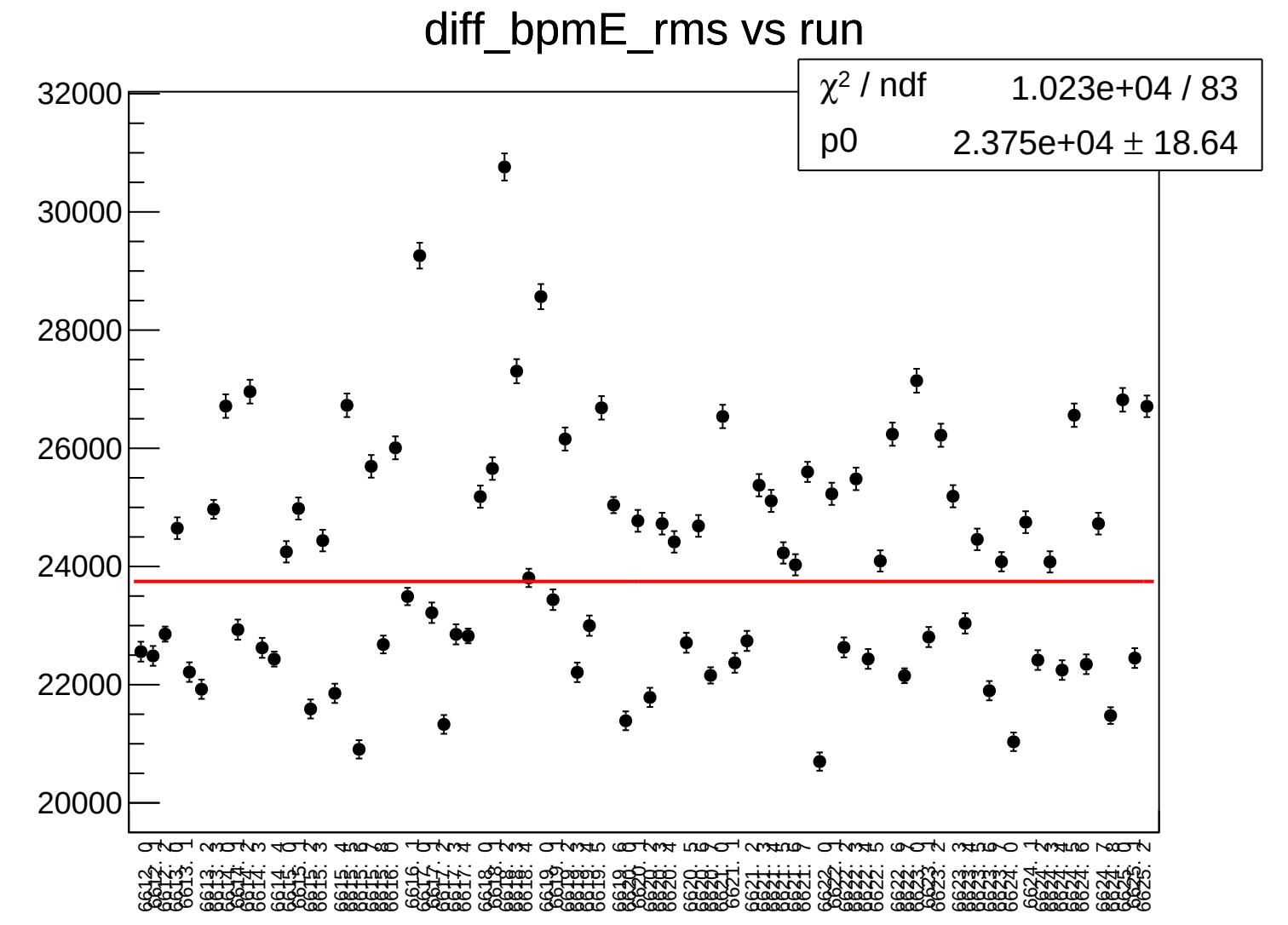

diff_targ_thetaY_mean vs run
χ² / ndf 85.67 / 83
p0 −0.4126 ± 0.4428
pull
Entries 84
Mean −379.4
Std Dev 0

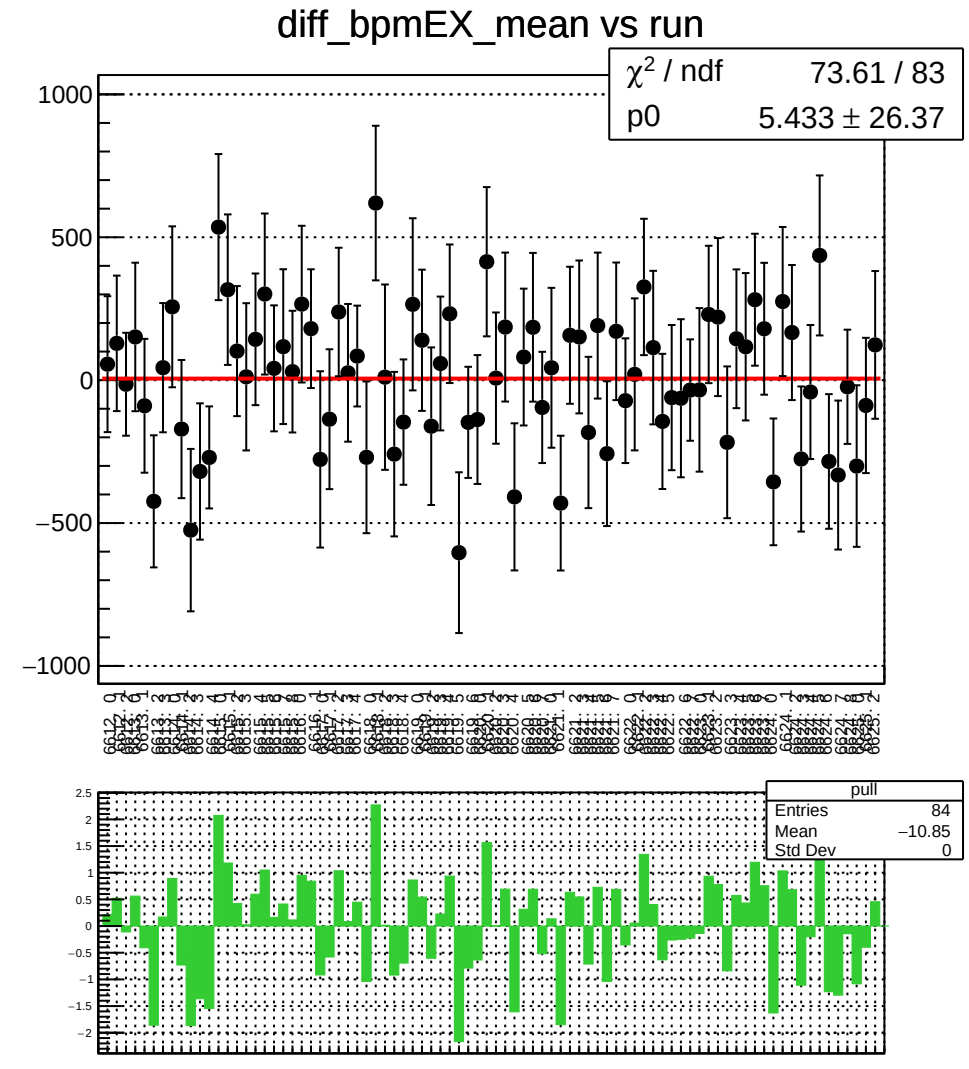

pull1D
Entries 84
Mean 0.007201
Std Dev 1.01

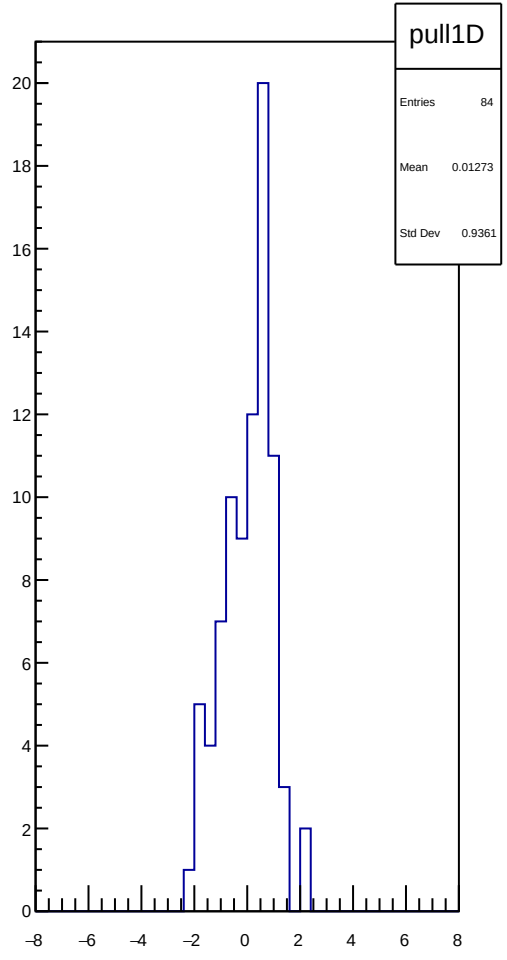

diff_targ_thetaY_rms vs run
χ² / ndf 4.128e+04 / 83
p0 395 ± 0.3131
500
450
400
350
300
250
200

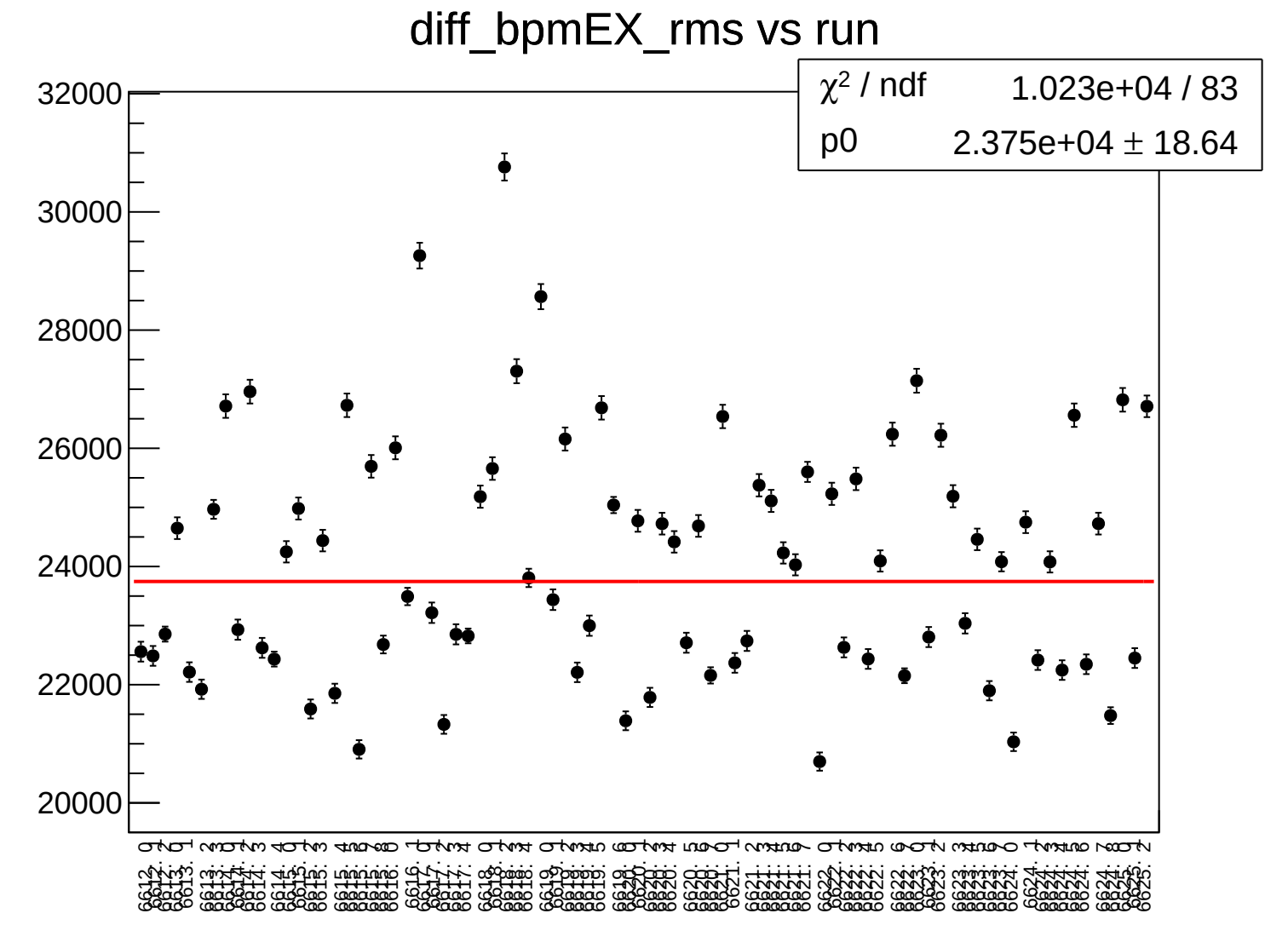

diff_bpmE_mean vs run
χ^2 / ndf 73.61 / 83
p0 5.433 ± 26.37
1000
500
0
−500
−1000
pull
Entries 84
Mean −10.85
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

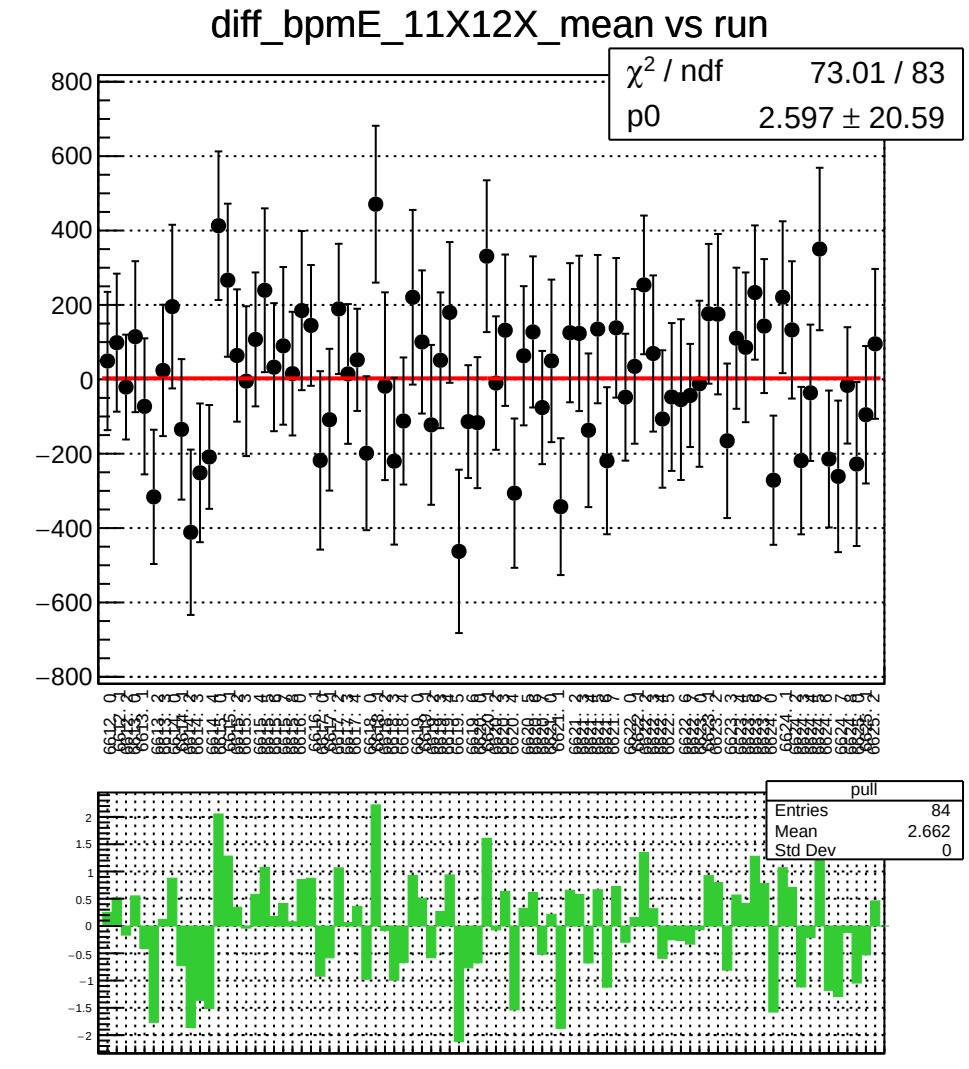

pull1D
Entries 84
Mean 0.01273
Std Dev 0.9361
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

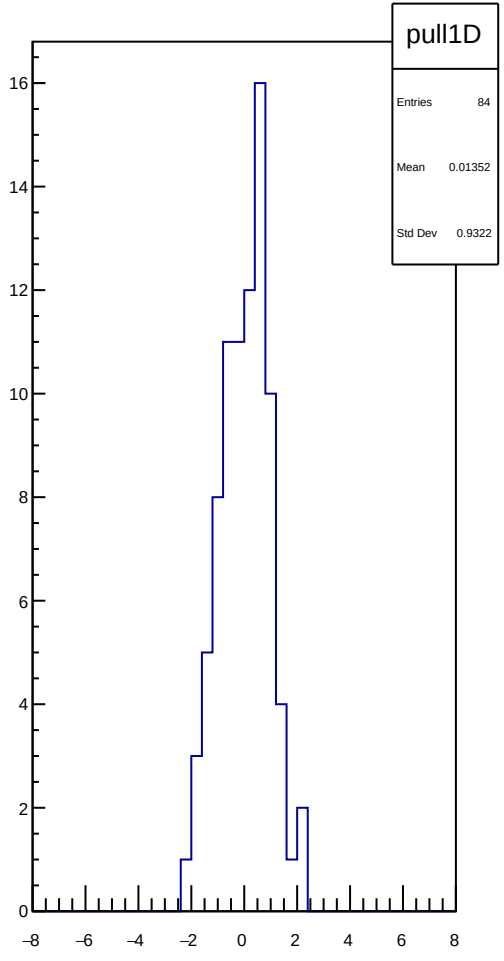

diff_bpmE_rms vs run
χ² / ndf 1.023e+04 / 83
p0 2.375e+04 ± 18.64
32000
30000
28000
26000
24000
22000
20000

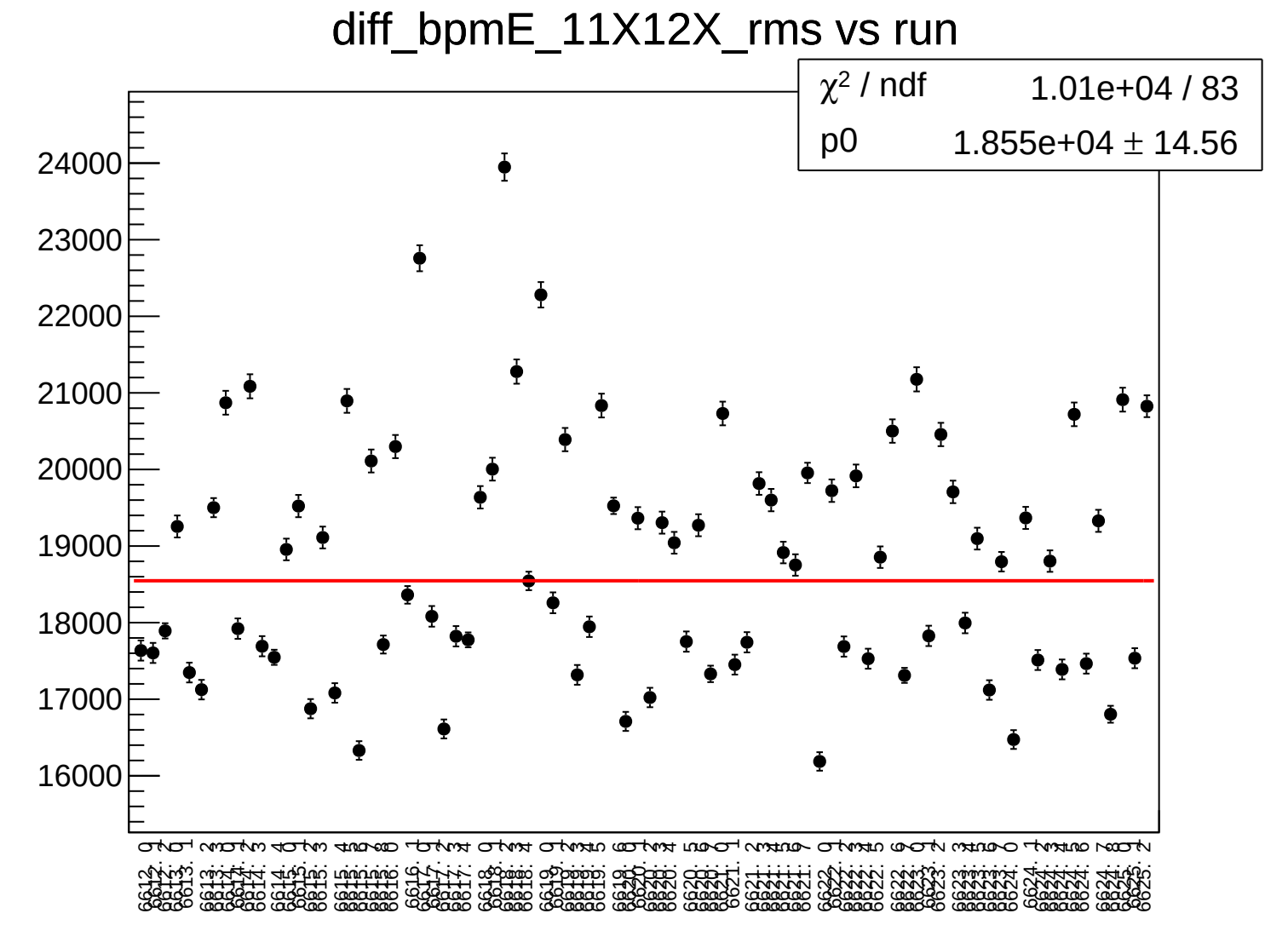

diff_bpmEX_mean vs run
χ² / ndf 73.61 / 83
p0 5.433 ± 26.37
pull
Entries 84
Mean −10.85
Std Dev 0

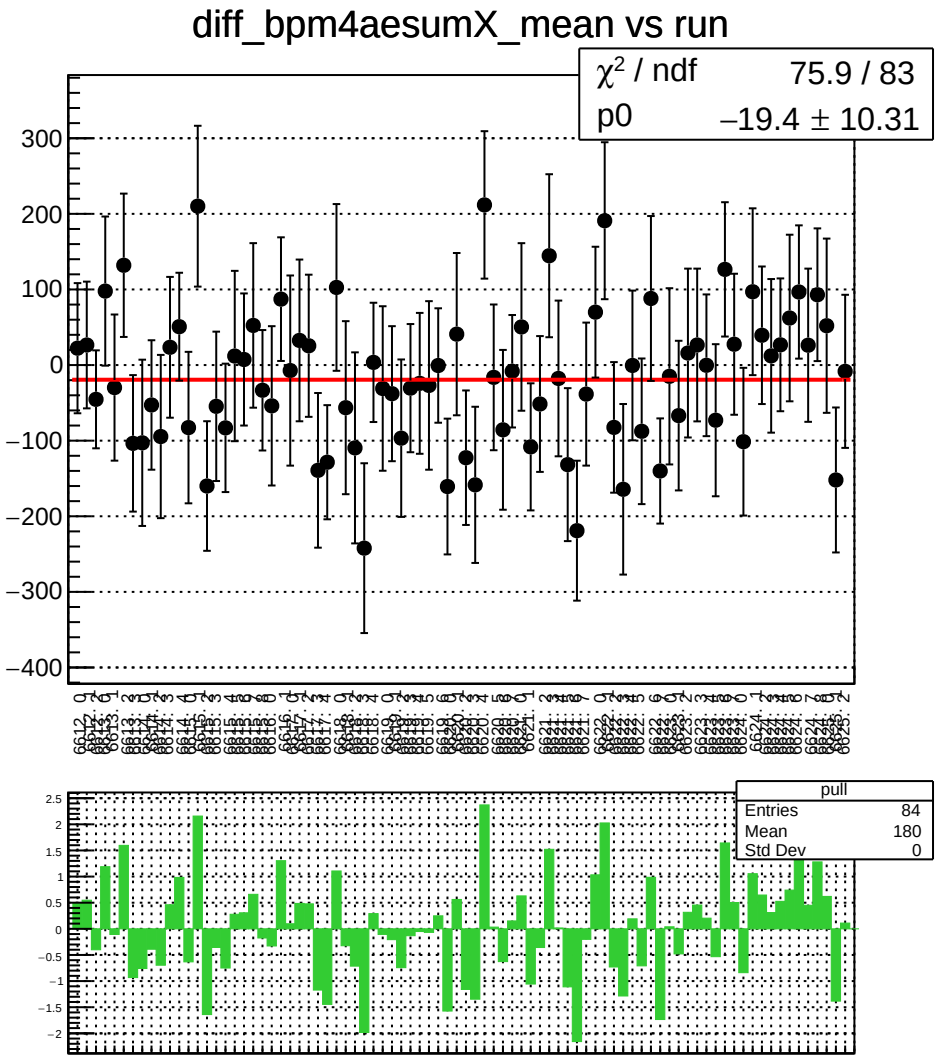

pull1D
Entries 84
Mean 0.01273
Std Dev 0.9361

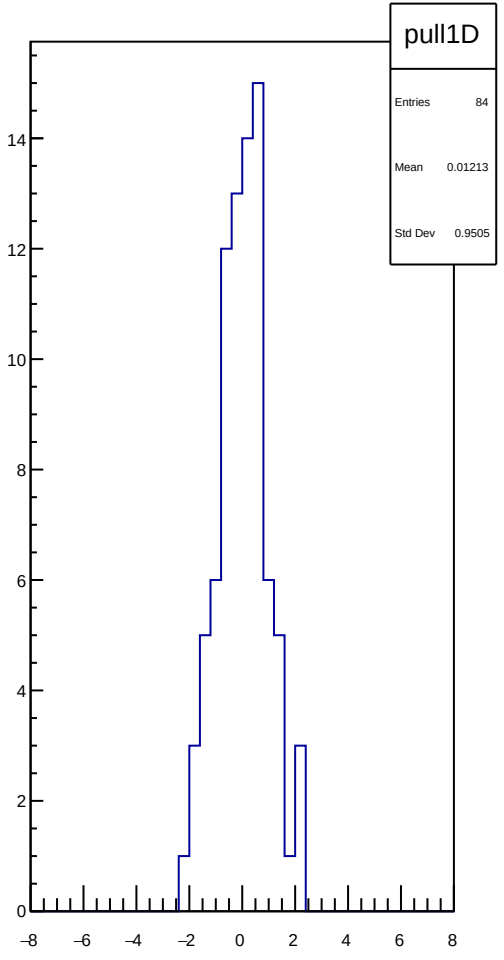

diff_bpmEX_rms vs run
χ² / ndf 1.023e+04 / 83
p0 2.375e+04 ± 18.64
32000
30000
28000
26000
24000
22000
20000

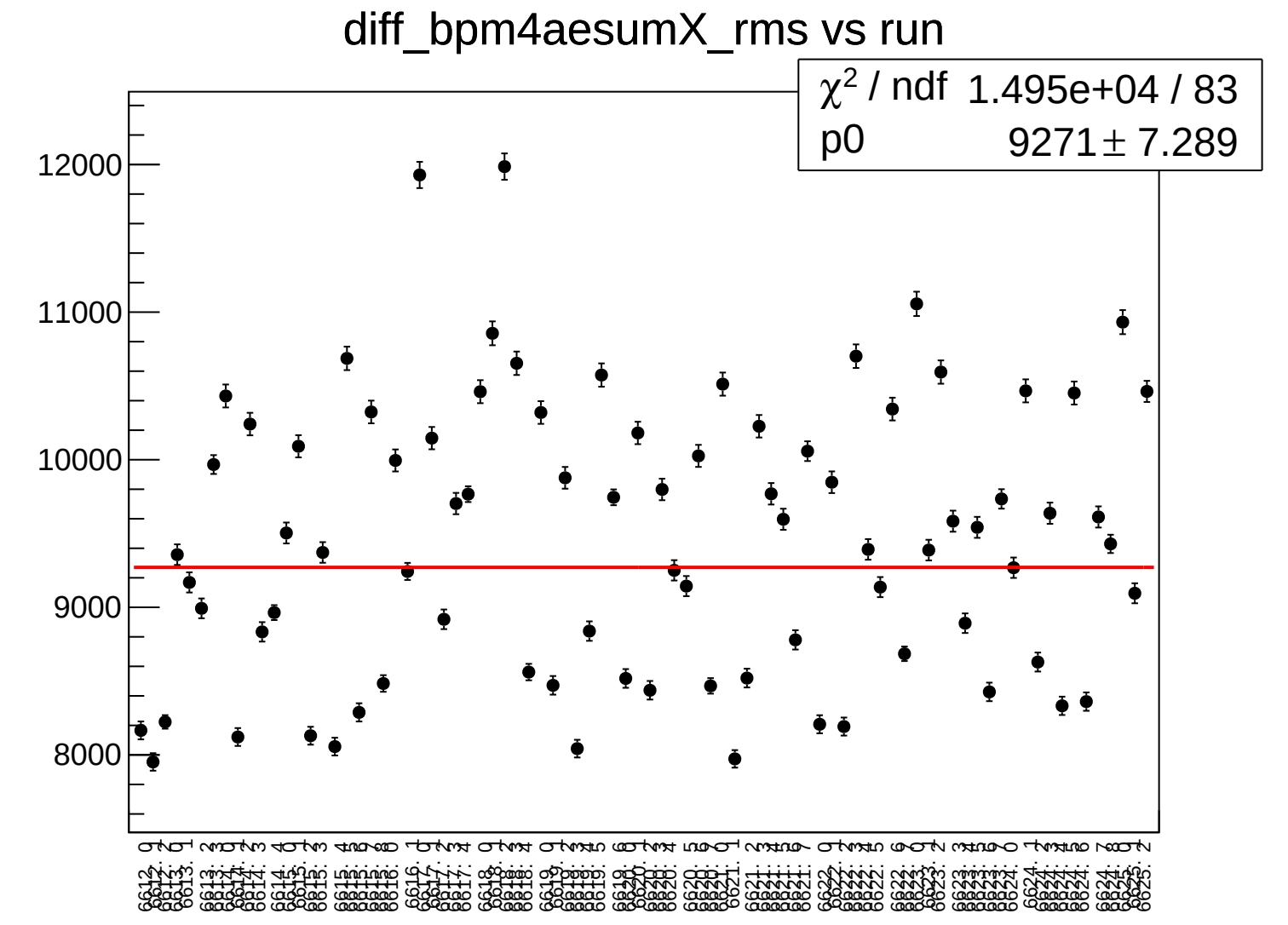

diff_bpmE_11X12X_mean vs run
χ² / ndf 73.01 / 83
p0 2.597 ± 20.59
pull
Entries 84
Mean 2.662
Std Dev 0

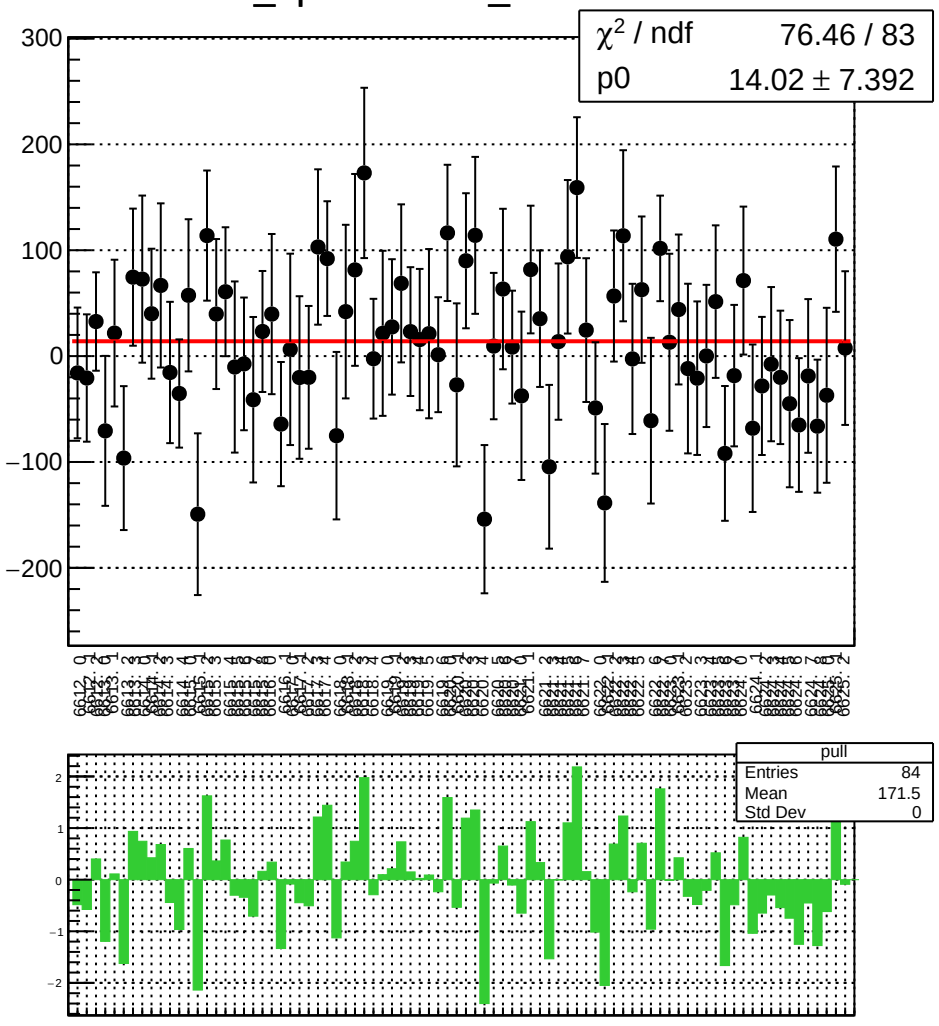

pull1D
Entries 84
Mean 0.01352
Std Dev 0.9322

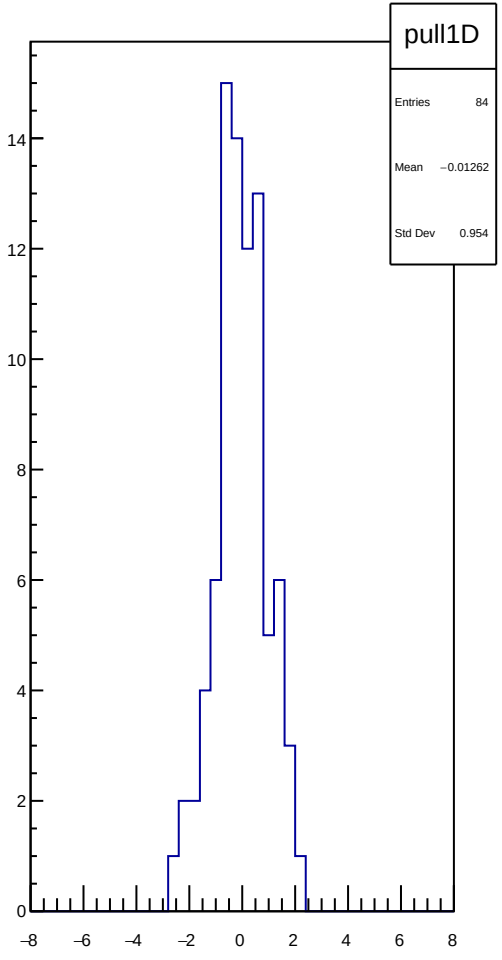

diff_bpmE_11X12X_rms vs run
χ² / ndf 1.01e+04 / 83
p0 1.855e+04 ± 14.56
24000
23000
22000
21000
20000
19000
18000
17000
16000

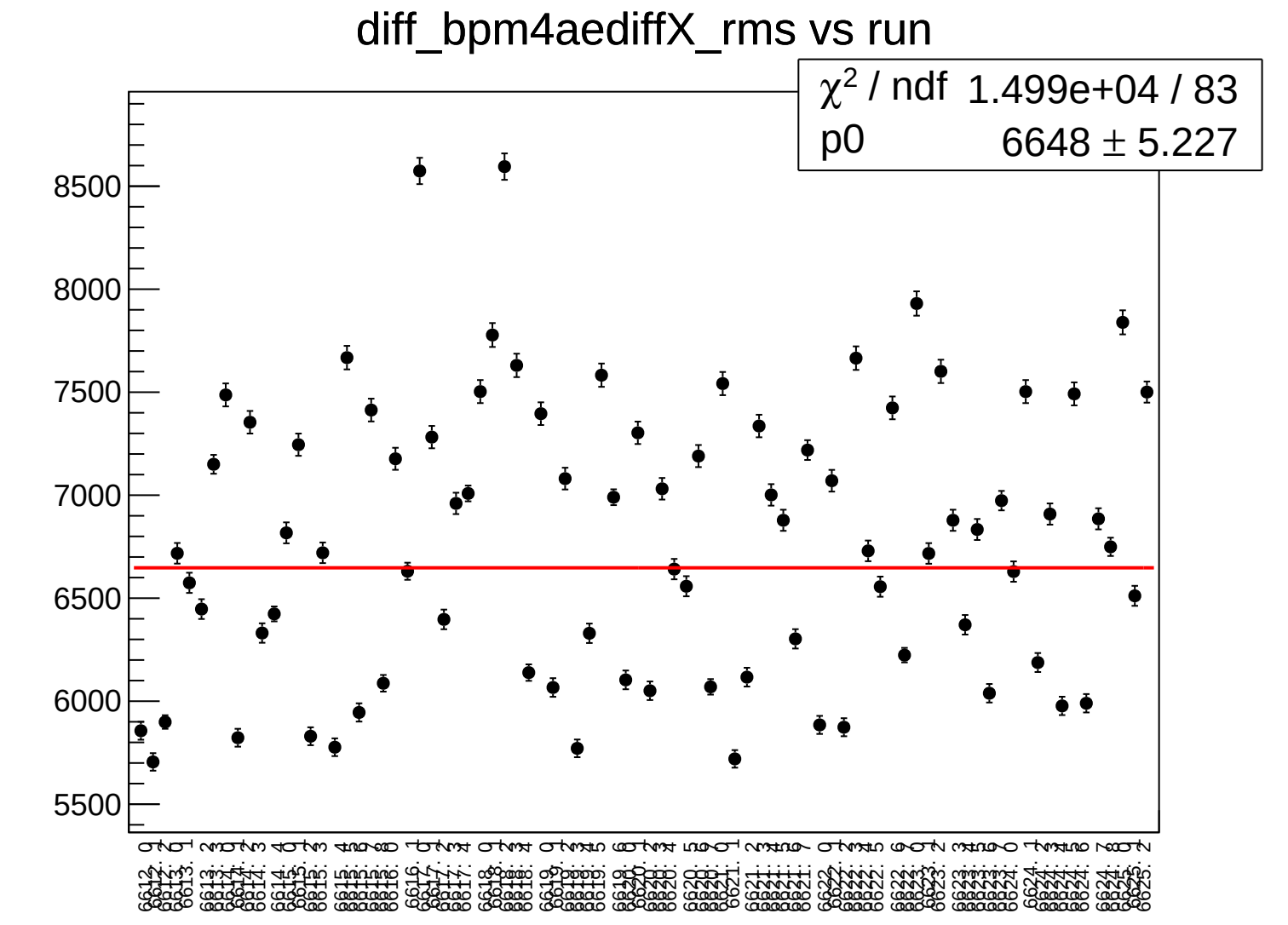

diff_bpm4aesumX_mean vs run
χ² / ndf 75.9 / 83
p0 −19.4 ± 10.31
pull
Entries 84
Mean 180
Std Dev 0

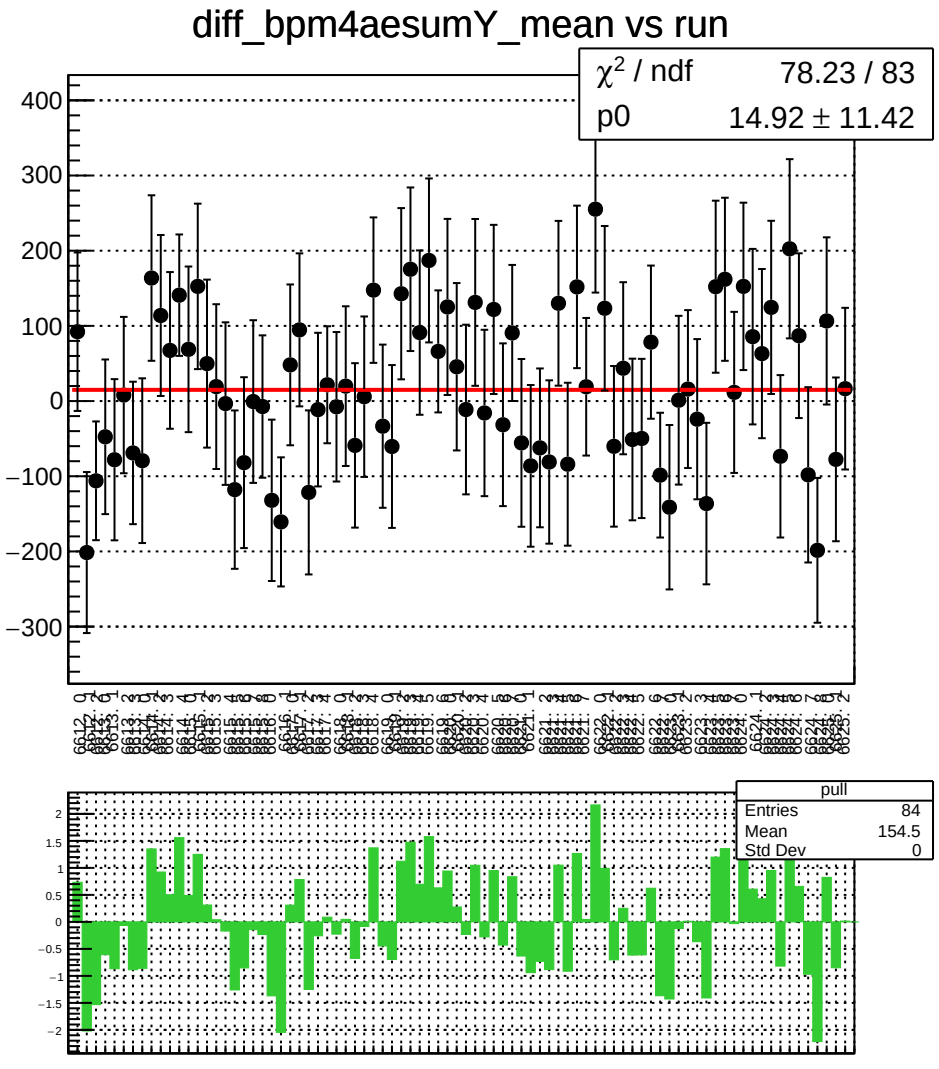

pull1D
Entries 84
Mean 0.01213
Std Dev 0.9505

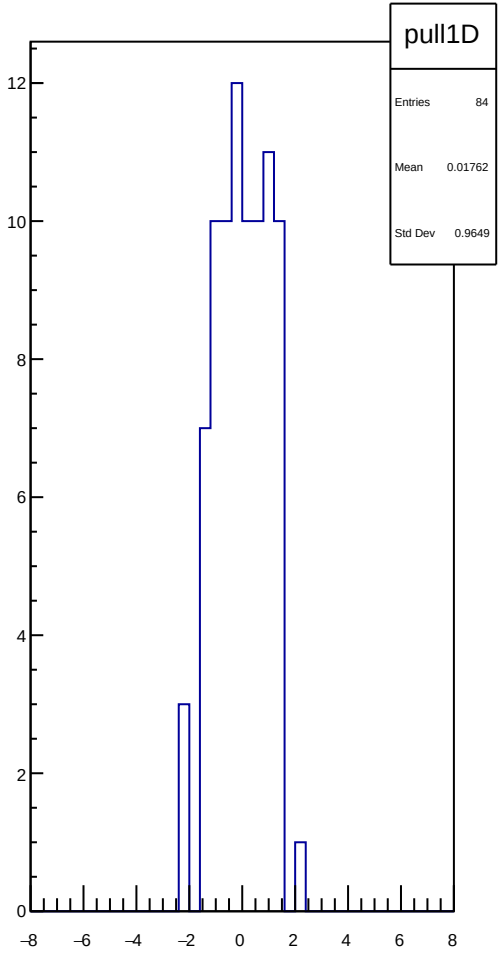

diff_bpm4aesumX_rms vs run
χ² / ndf 1.495e+04 / 83
p0 9271 ± 7.289
12000
11000
10000
9000
8000

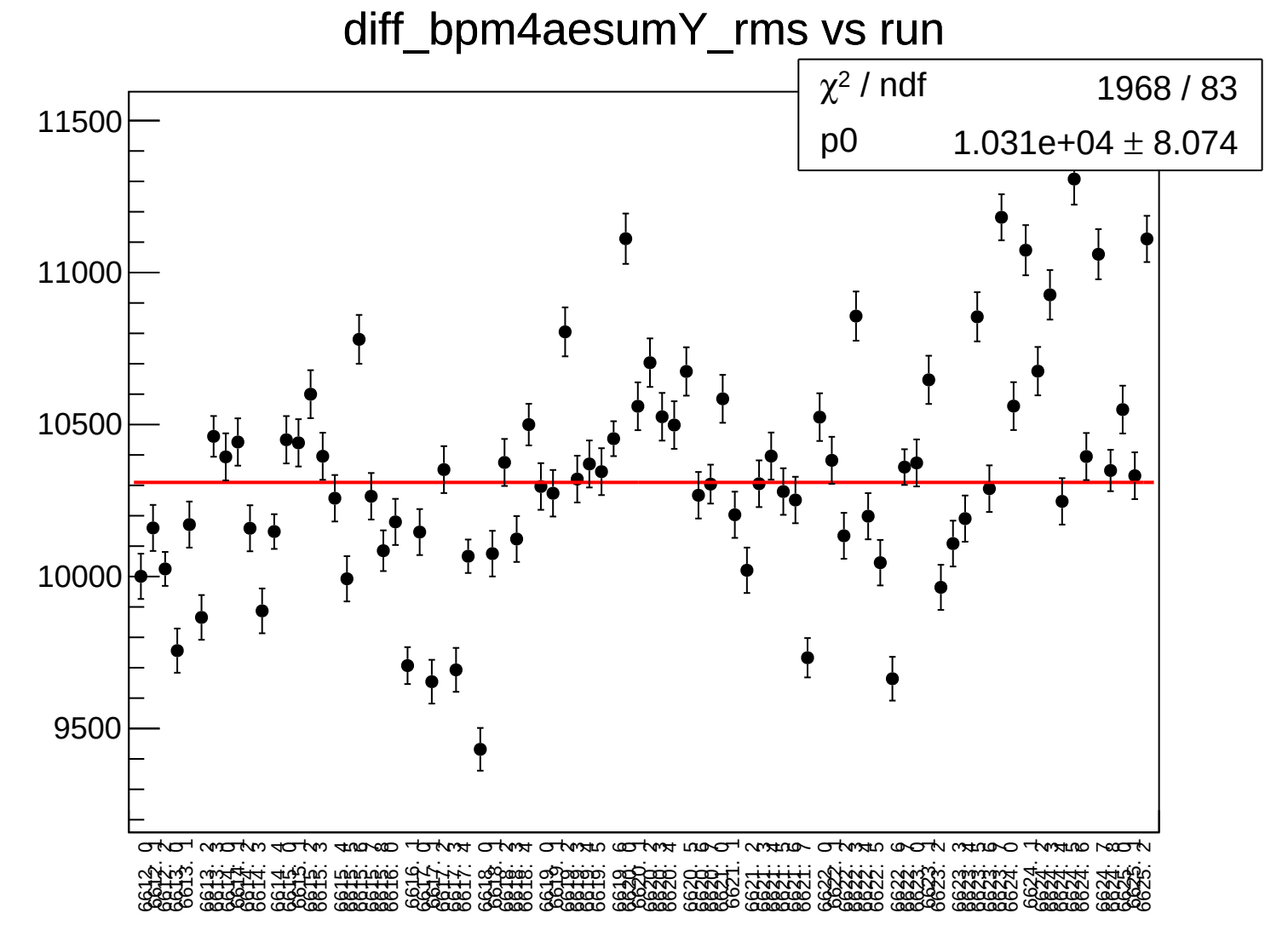

diff_bpm4aediffX_mean vs run
χ^2 / ndf 76.46 / 83
p0 14.02 ± 7.392
pull
Entries 84
Mean 171.5
Std Dev 0

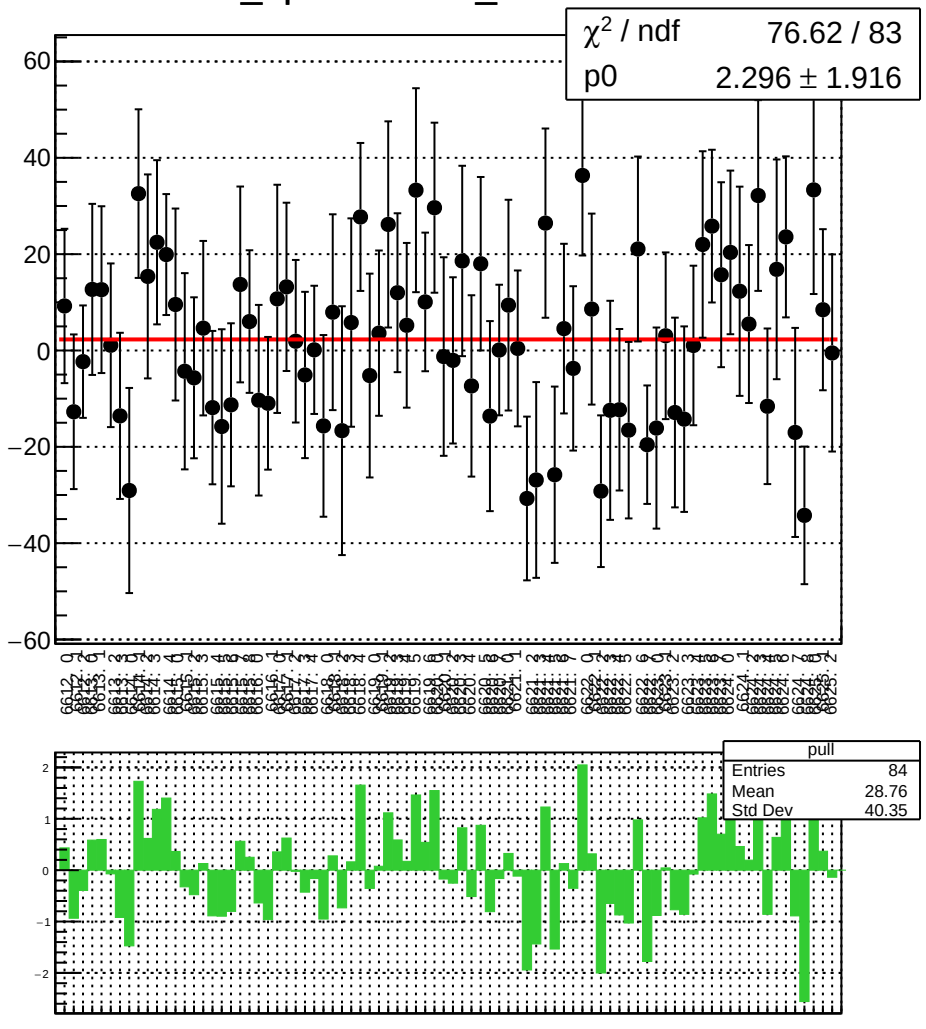

pull1D
Entries 84
Mean −0.01262
Std Dev 0.954

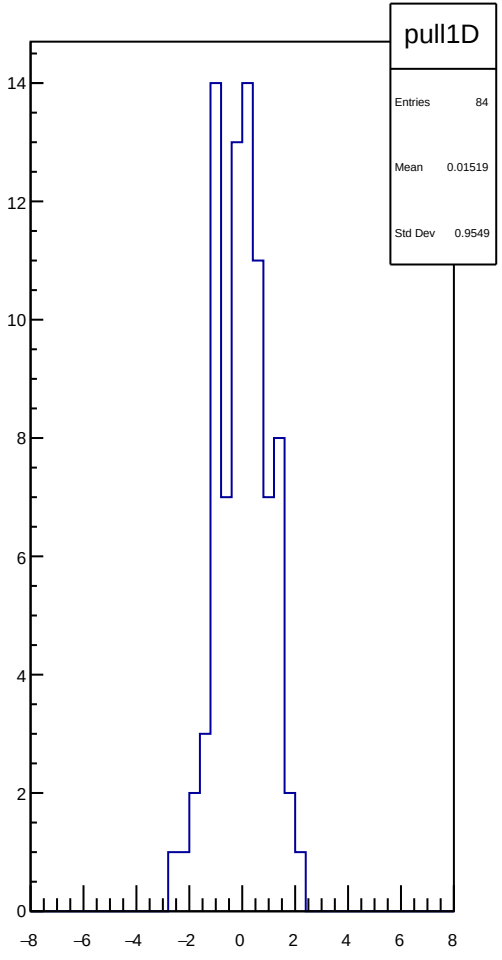

diff_bpm4aediffX_rms vs run
χ² / ndf 1.499e+04 / 83
p0 6648 ± 5.227
8500
8000
7500
7000
6500
6000
5500

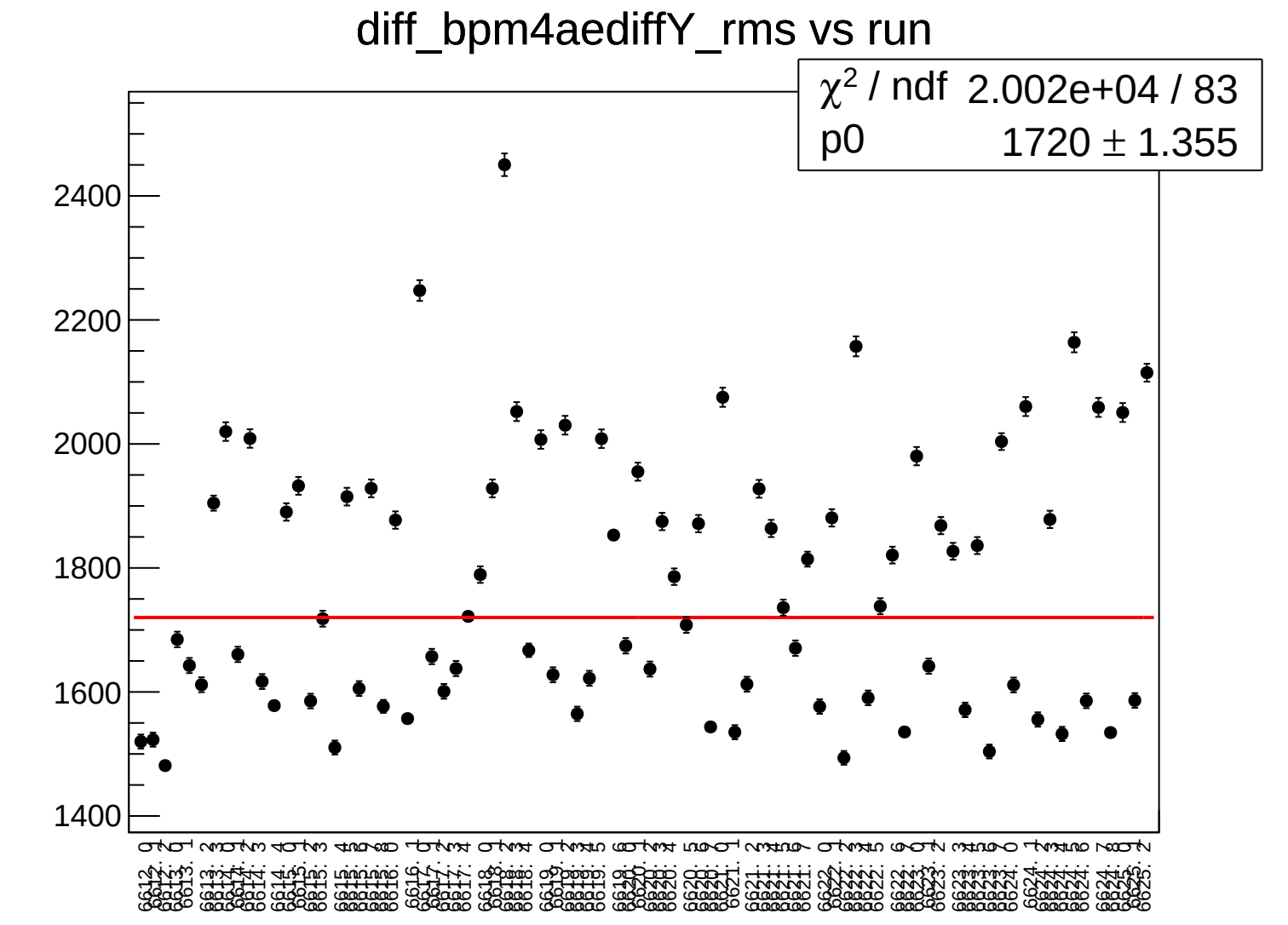

diff_bpm4aesumY_mean vs run
χ² / ndf 78.23 / 83
p0 14.92 ± 11.42
pull
Entries 84
Mean 154.5
Std Dev 0

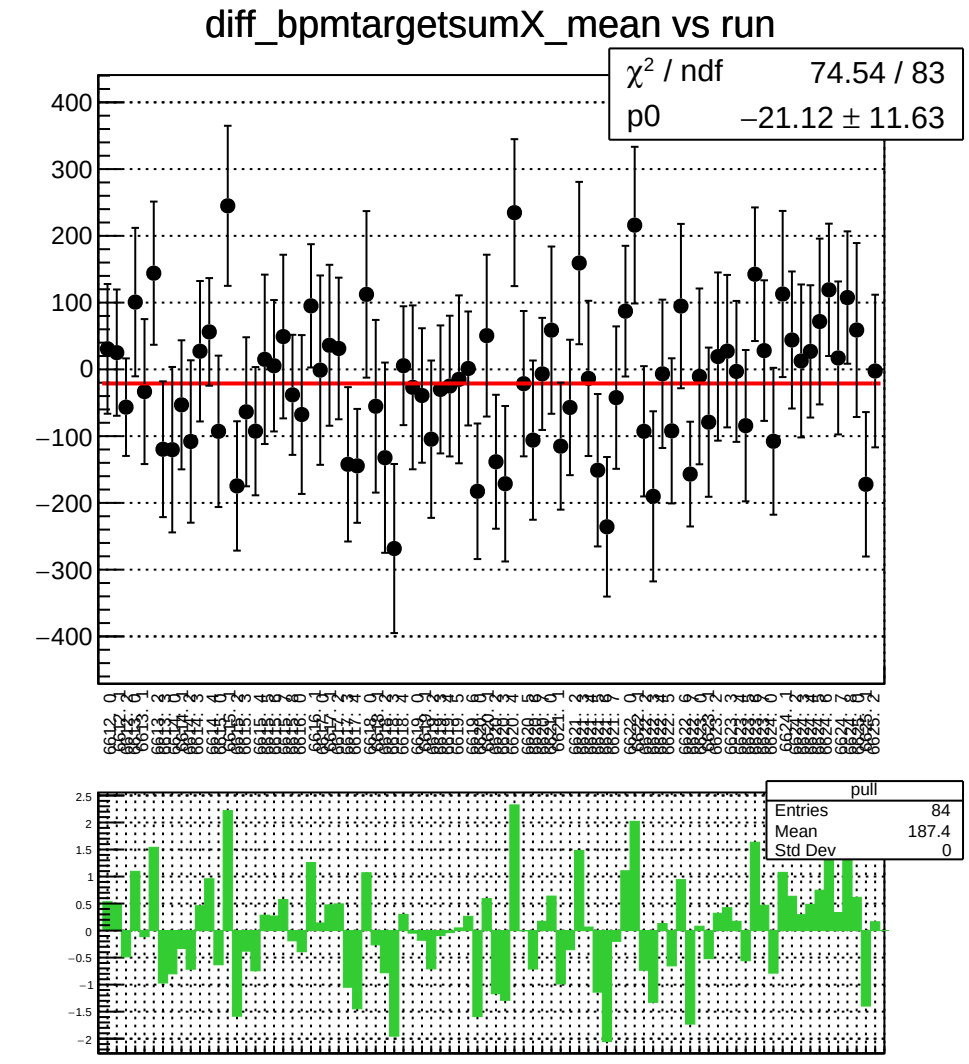

pull1D
Entries 84
Mean 0.01762
Std Dev 0.9649

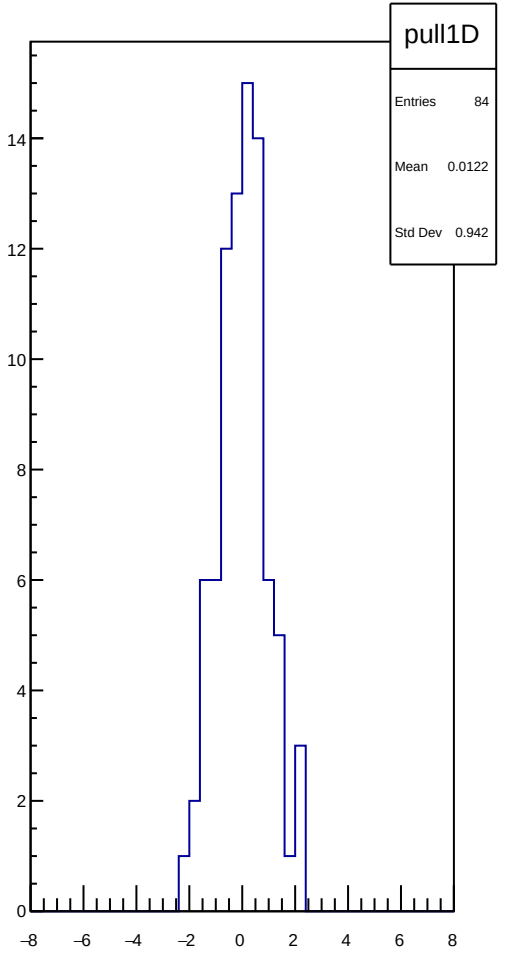

diff_bpm4aesumY_rms vs run
χ² / ndf 1968 / 83
p0 1.031e+04 ± 8.074
11500
11000
10500
10000
9500

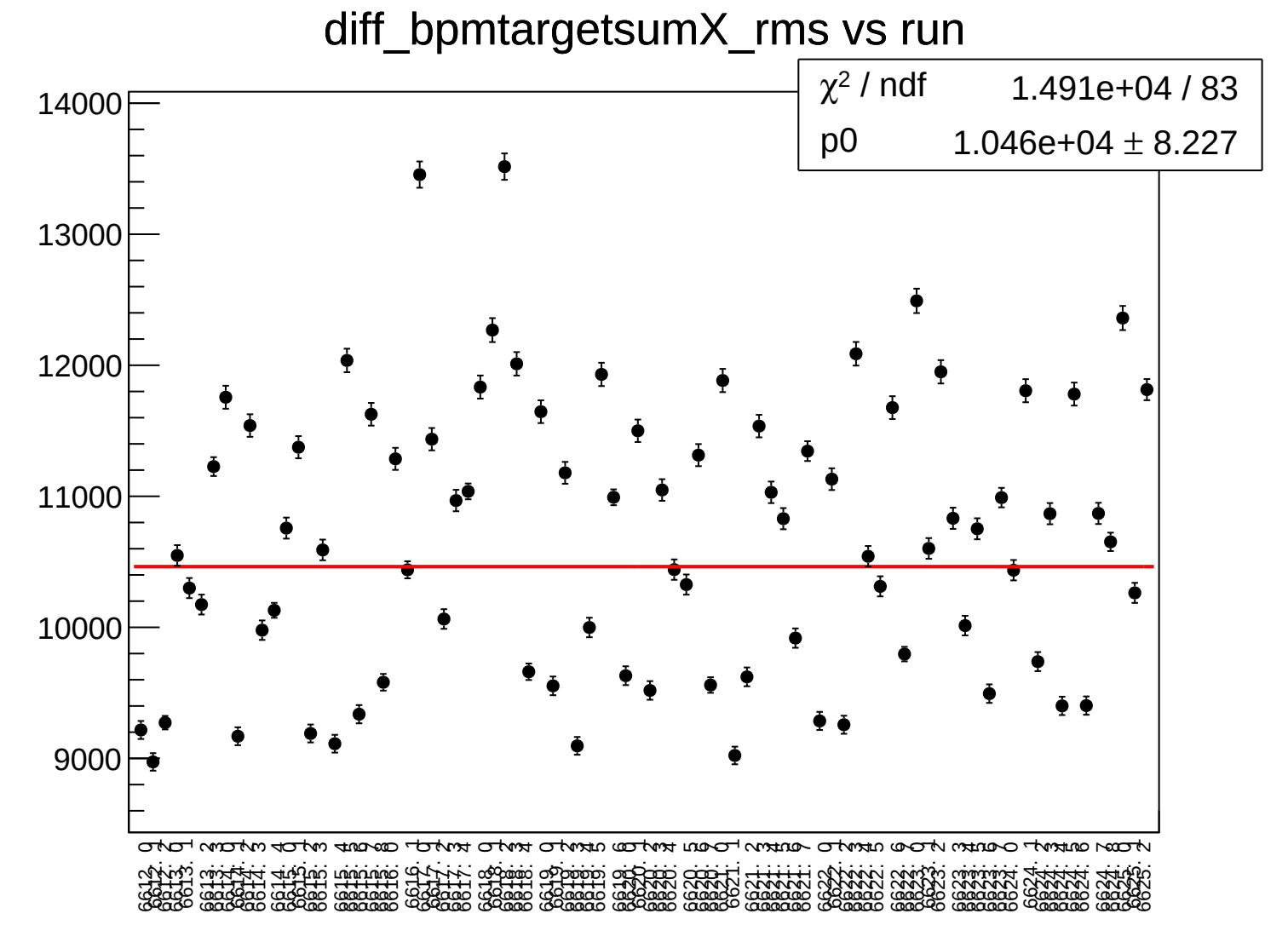

diff_bpm4aediffY_mean vs run
χ² / ndf 76.62 / 83
p0 2.296 ± 1.916
pull
Entries 84
Mean 28.76
Std Dev 40.35

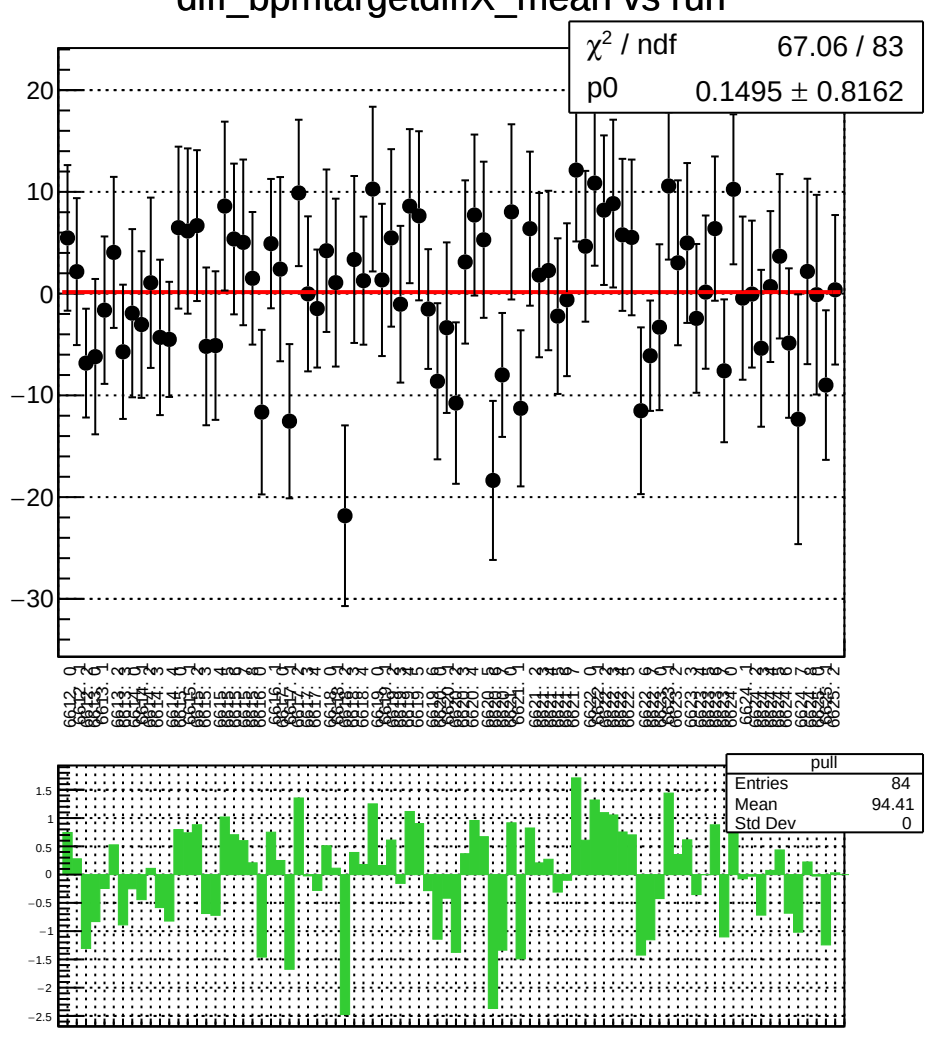

pull1D
Entries 84
Mean 0.01519
Std Dev 0.9549

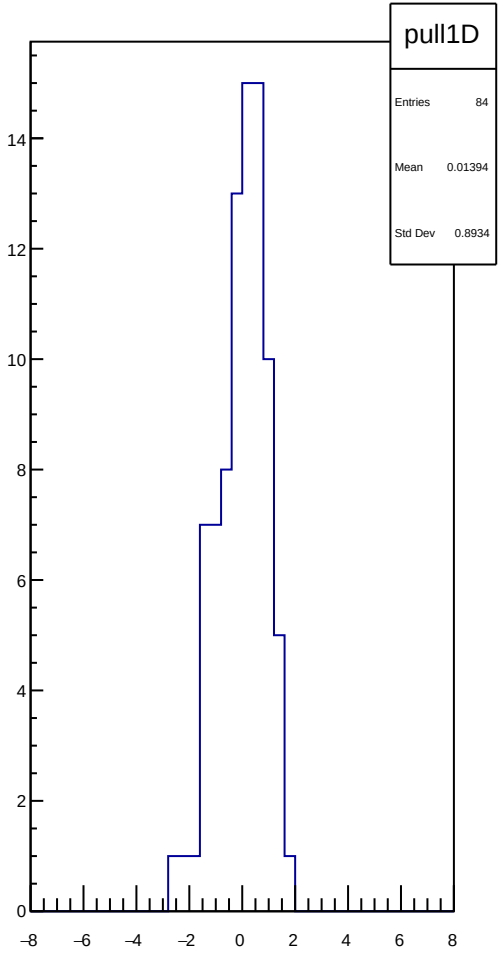

diff_bpm4aediffY_rms vs run
χ² / ndf 2.002e+04 / 83
p0 1720 ± 1.355
2400
2200
2000
1800
1600
1400

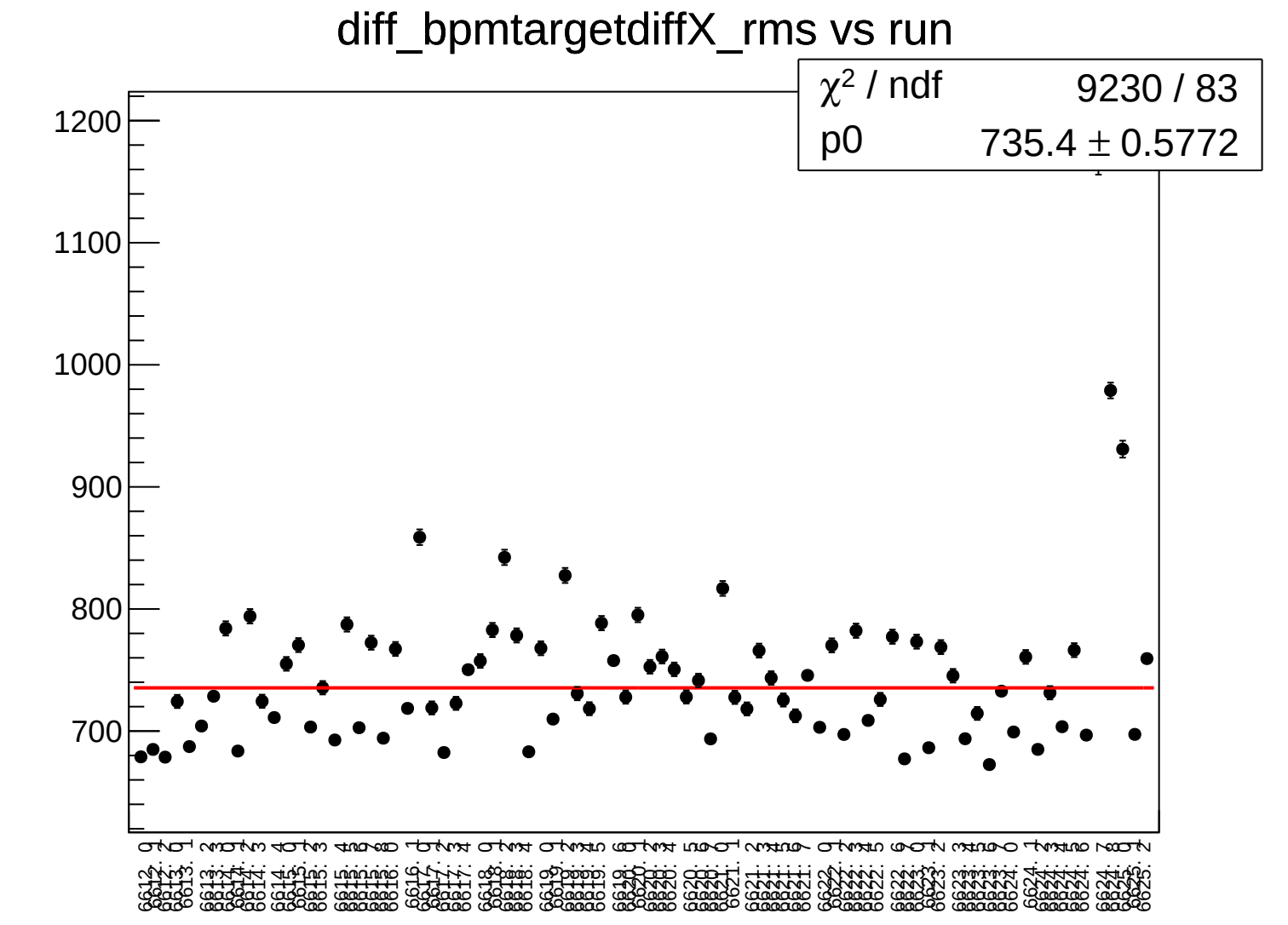

diff_bpmtargetsumX_mean vs run
χ² / ndf 74.54 / 83
p0 −21.12 ± 11.63
pull
Entries 84
Mean 187.4
Std Dev 0

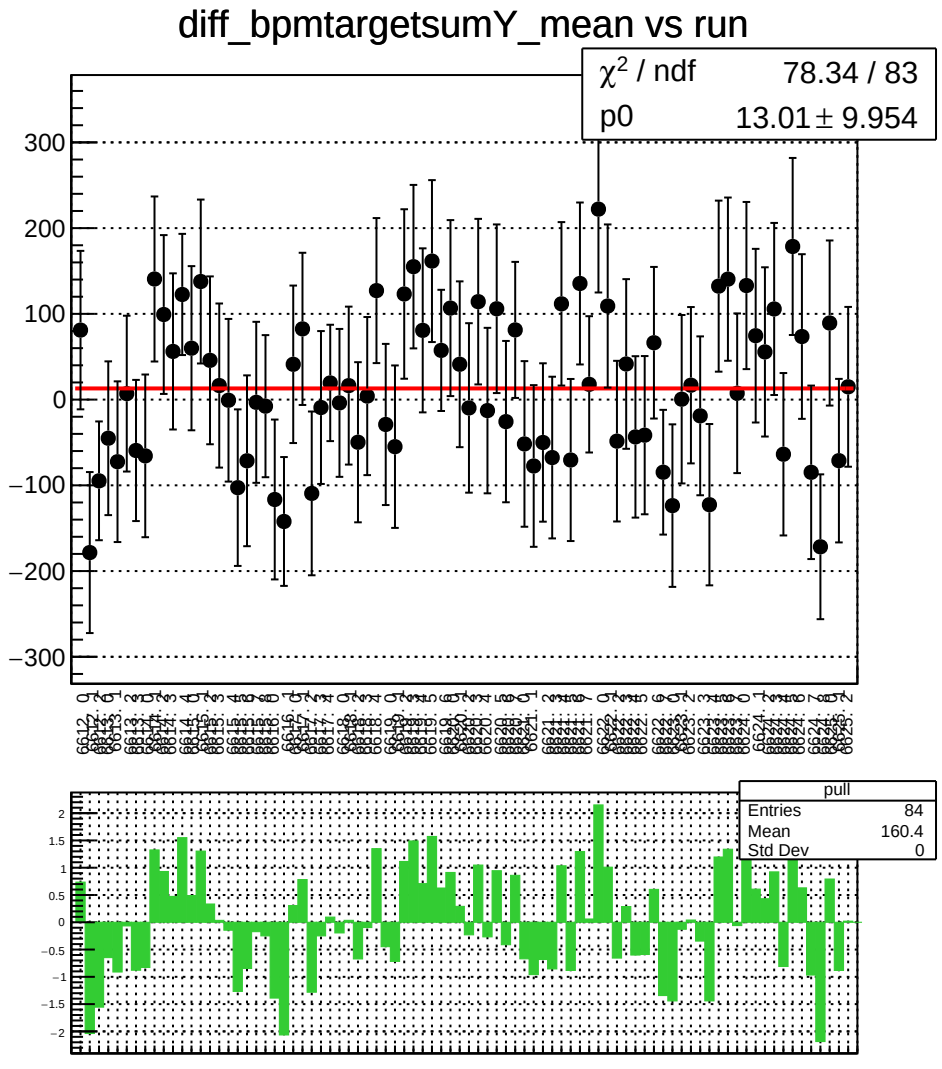

pull1D
Entries 84
Mean 0.0122
Std Dev 0.942

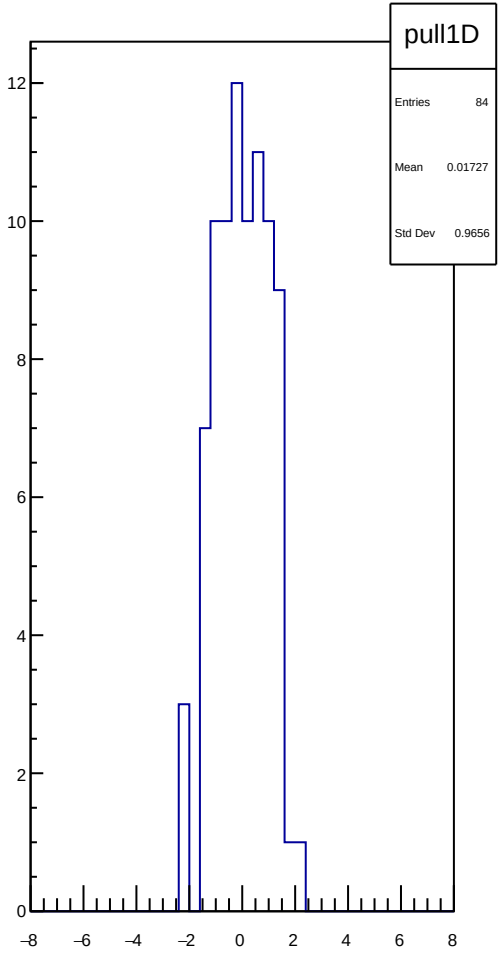

diff_bpmtargetsumX_rms vs run
χ² / ndf 1.491e+04 / 83
p0 1.046e+04 ± 8.227
14000
13000
12000
11000
10000
9000

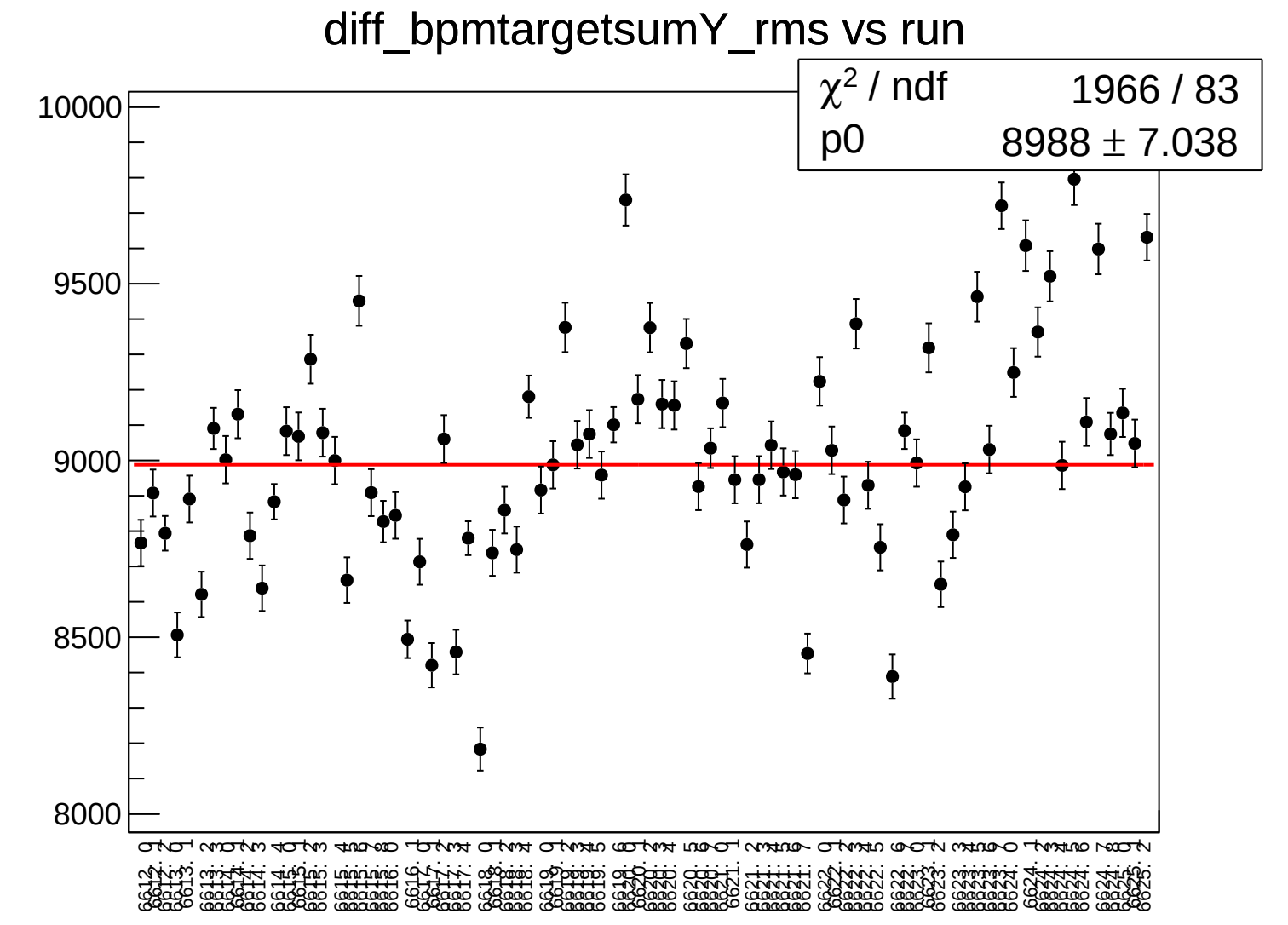

diff_bpmtargetdiffX_mean vs run
χ² / ndf 67.06 / 83
p0 0.1495 ± 0.8162
pull
Entries 84
Mean 94.41
Std Dev 0

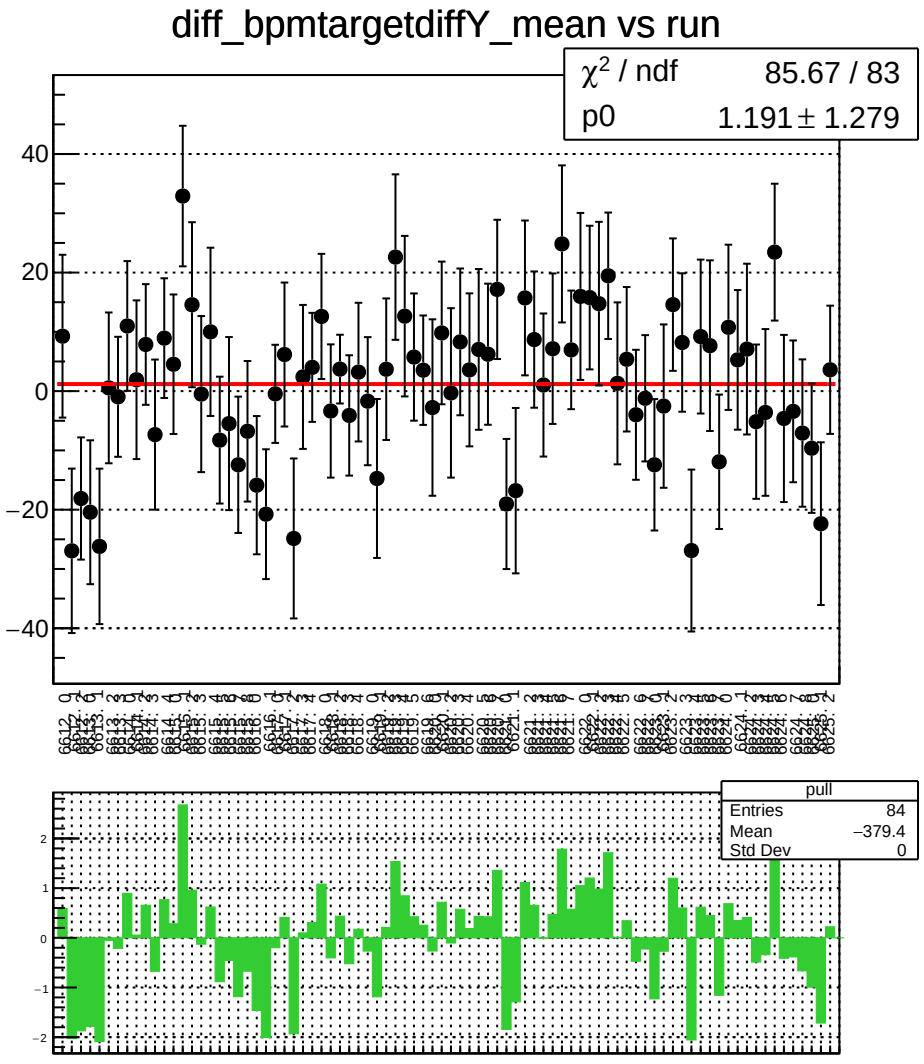

pull1D
Entries 84
Mean 0.01394
Std Dev 0.8934

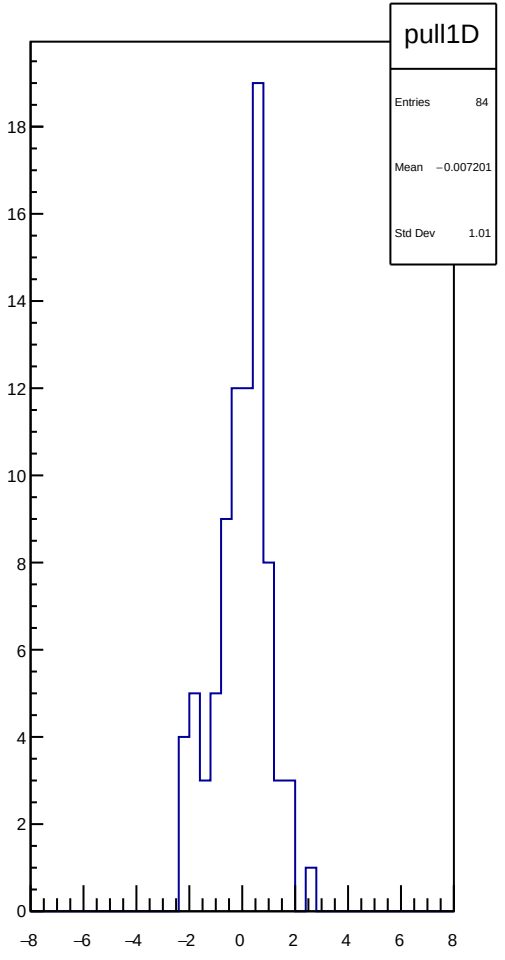

diff_bpmtargetdiffX_rms vs run
χ² / ndf 9230 / 83
p0 735.4 ± 0.5772
1200
1100
1000
900
800
700

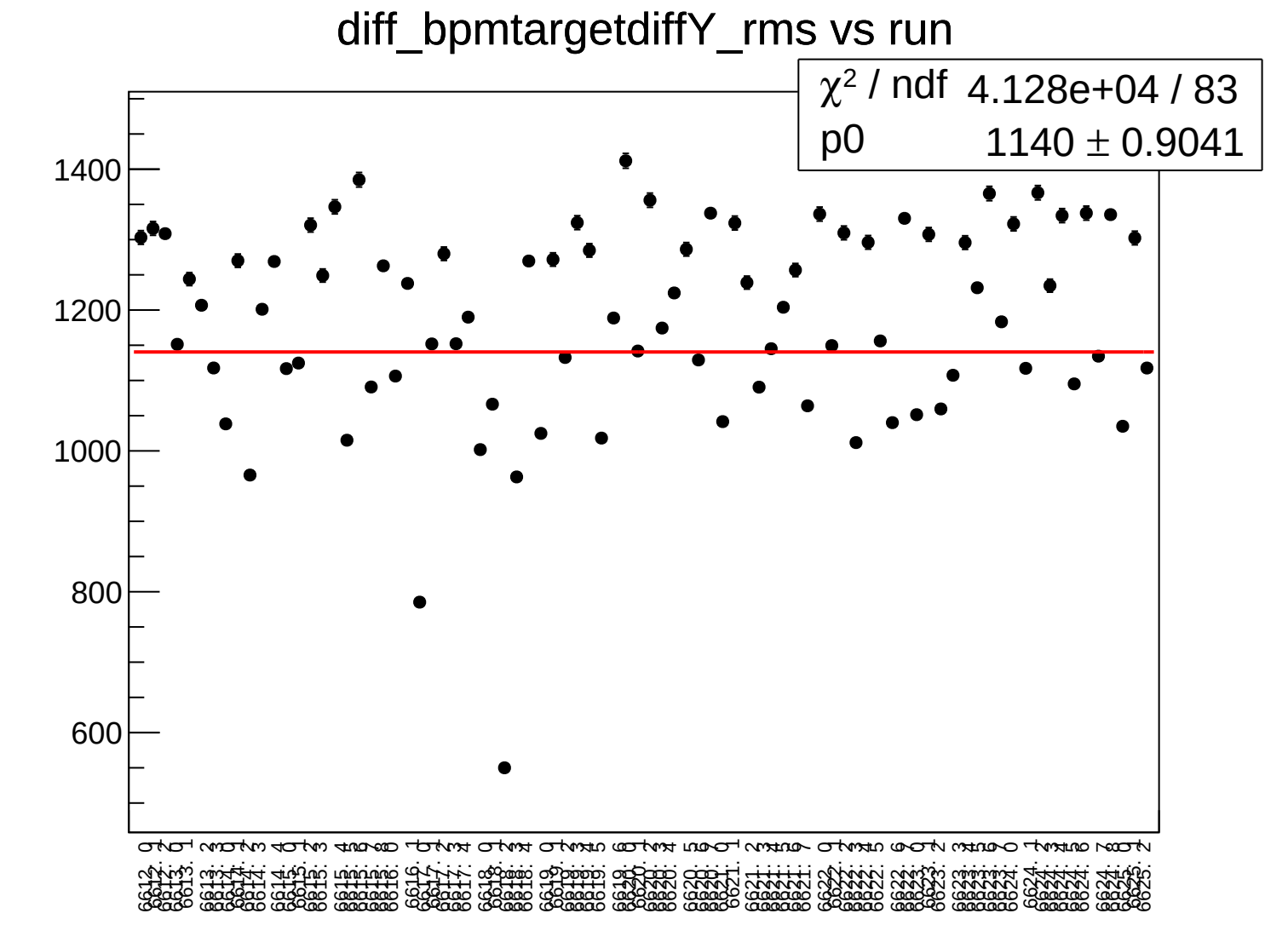

diff_bpmtargetsumY_mean vs run
χ² / ndf 78.34 / 83
p0 13.01 ± 9.954
pull
Entries 84
Mean 160.4
Std Dev 0

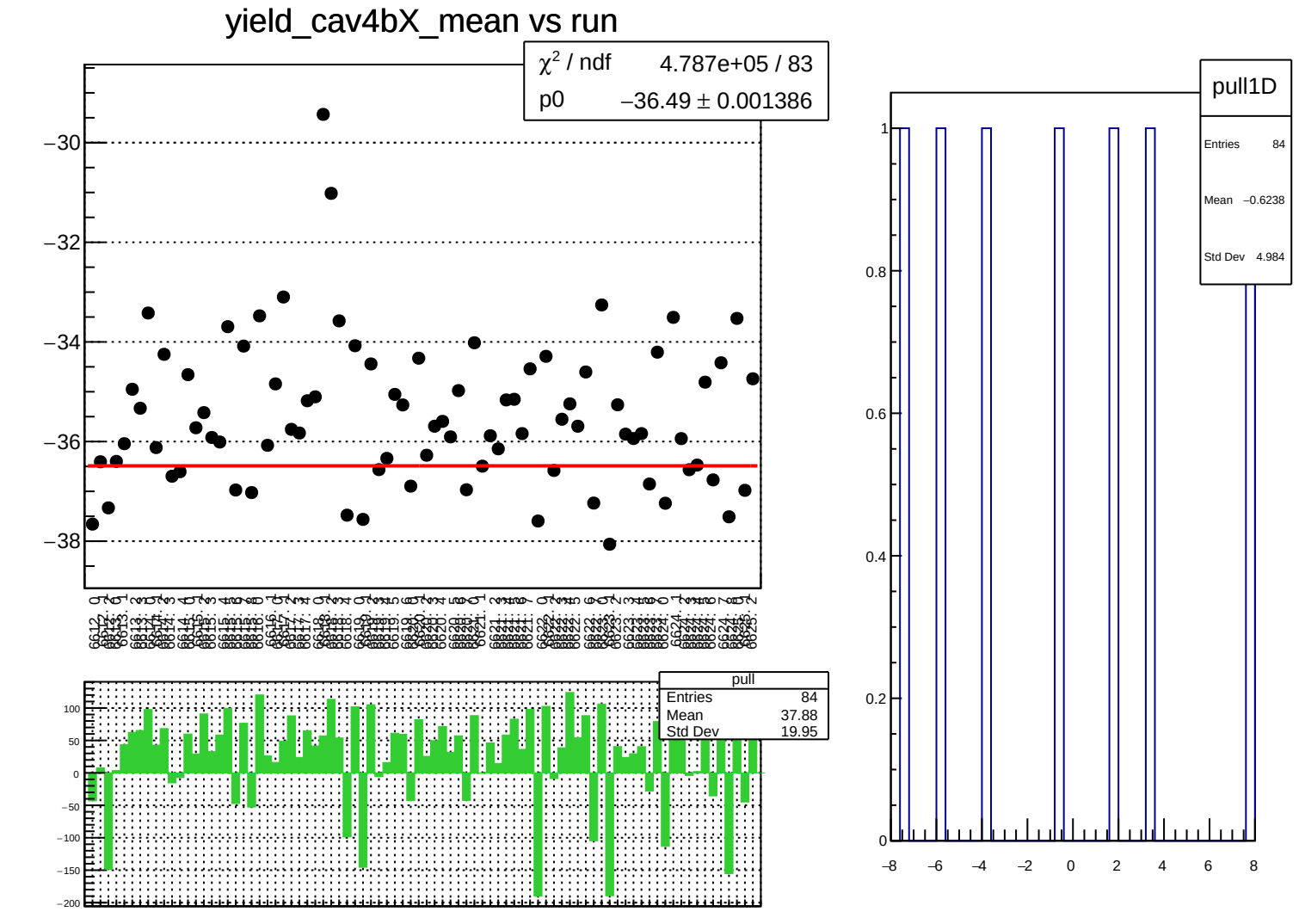

pull1D
Entries 84
Mean 0.01727
Std Dev 0.9656

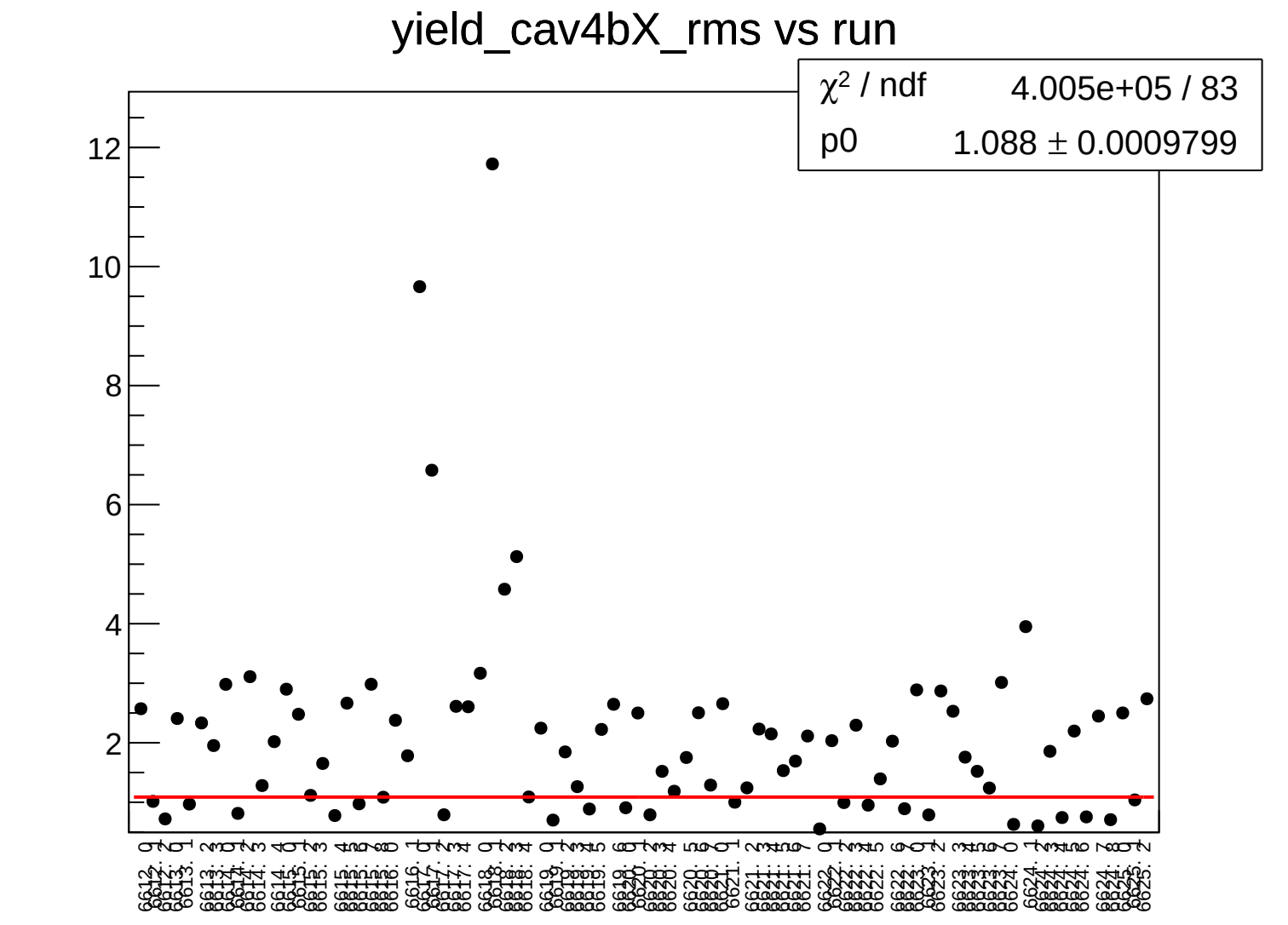

diff_bpmtargetsumY_rms vs run
χ² / ndf 1966 / 83
p0 8988 ± 7.038
10000
9500
9000
8500
8000

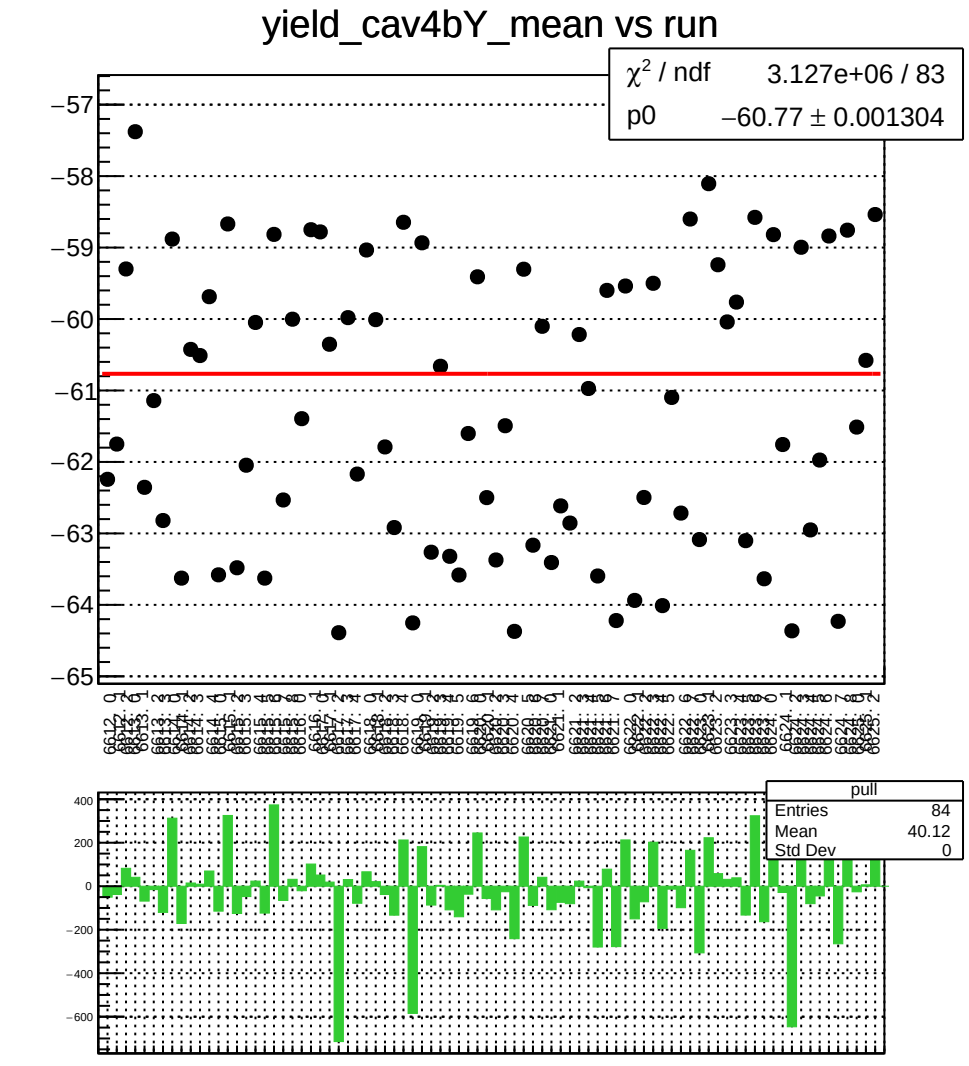

diff_bpmtargetdiffY_mean vs run
χ² / ndf 85.67 / 83
p0 1.191 ± 1.279
40
20
0
−20
−40
pull
Entries 84
Mean −379.4
Std Dev 0
2
1
0
−1
−2

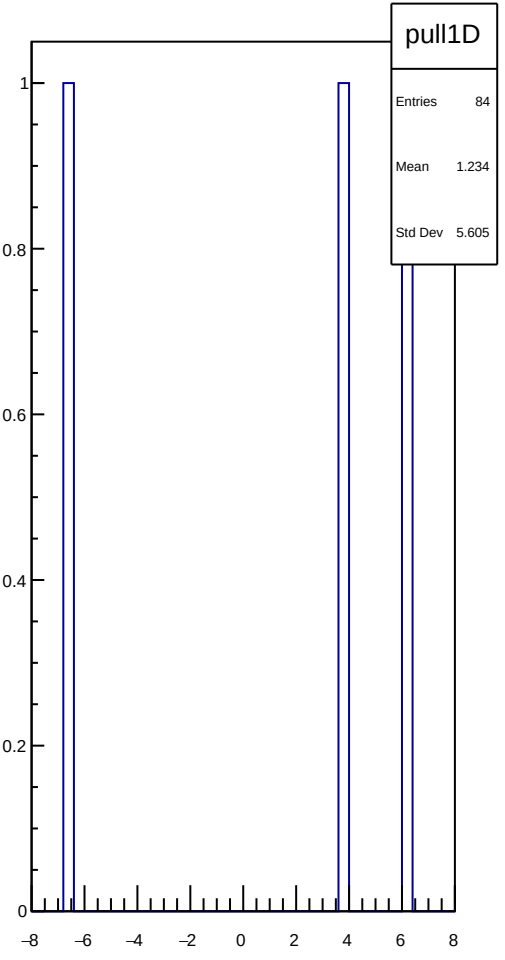

pull1D
Entries 84
Mean −0.007201
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

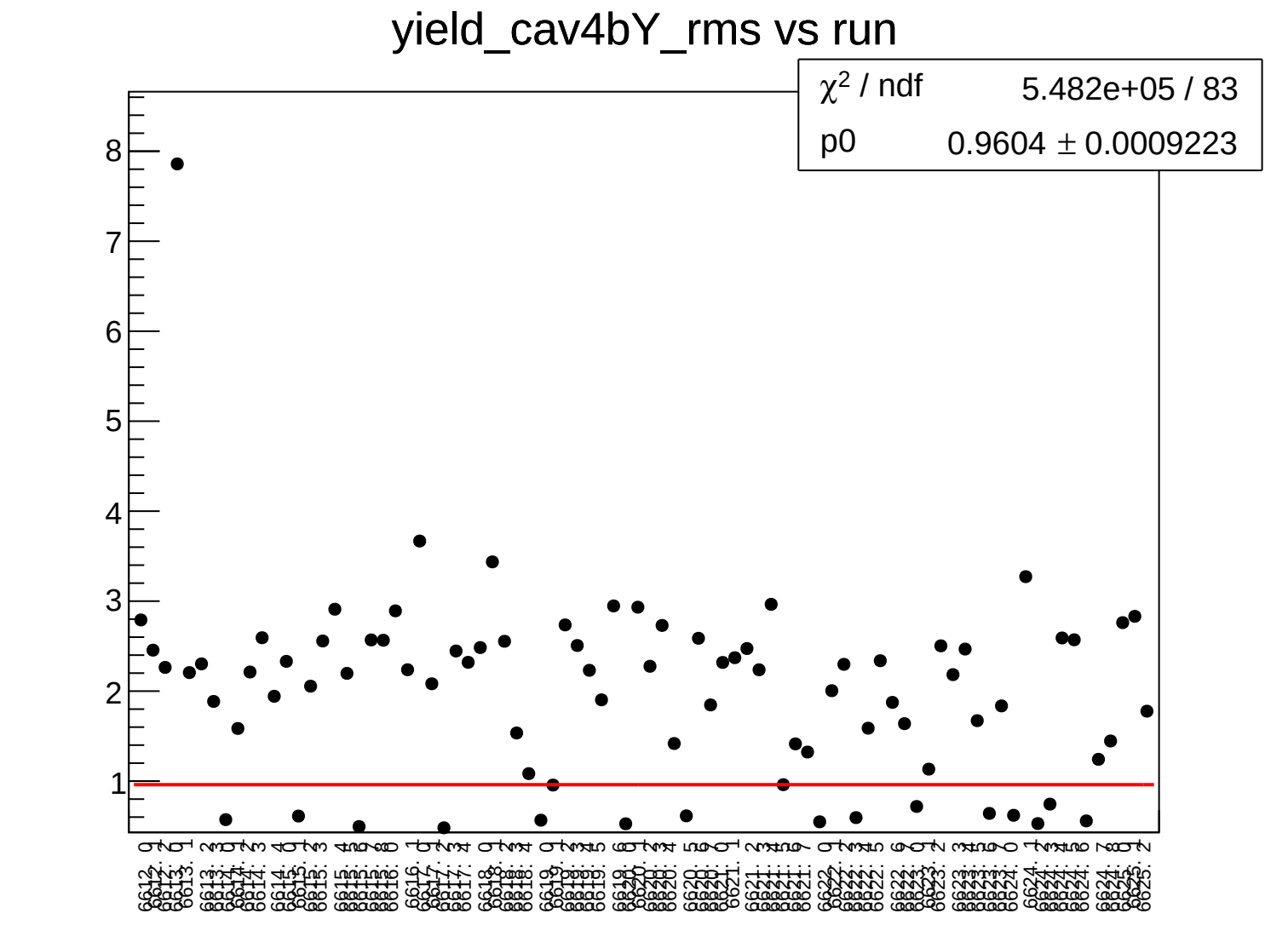

diff_bpmtargetdiffY_rms vs run
χ² / ndf 4.128e+04 / 83
p0 1140 ± 0.9041
1400
1200
1000
800
600

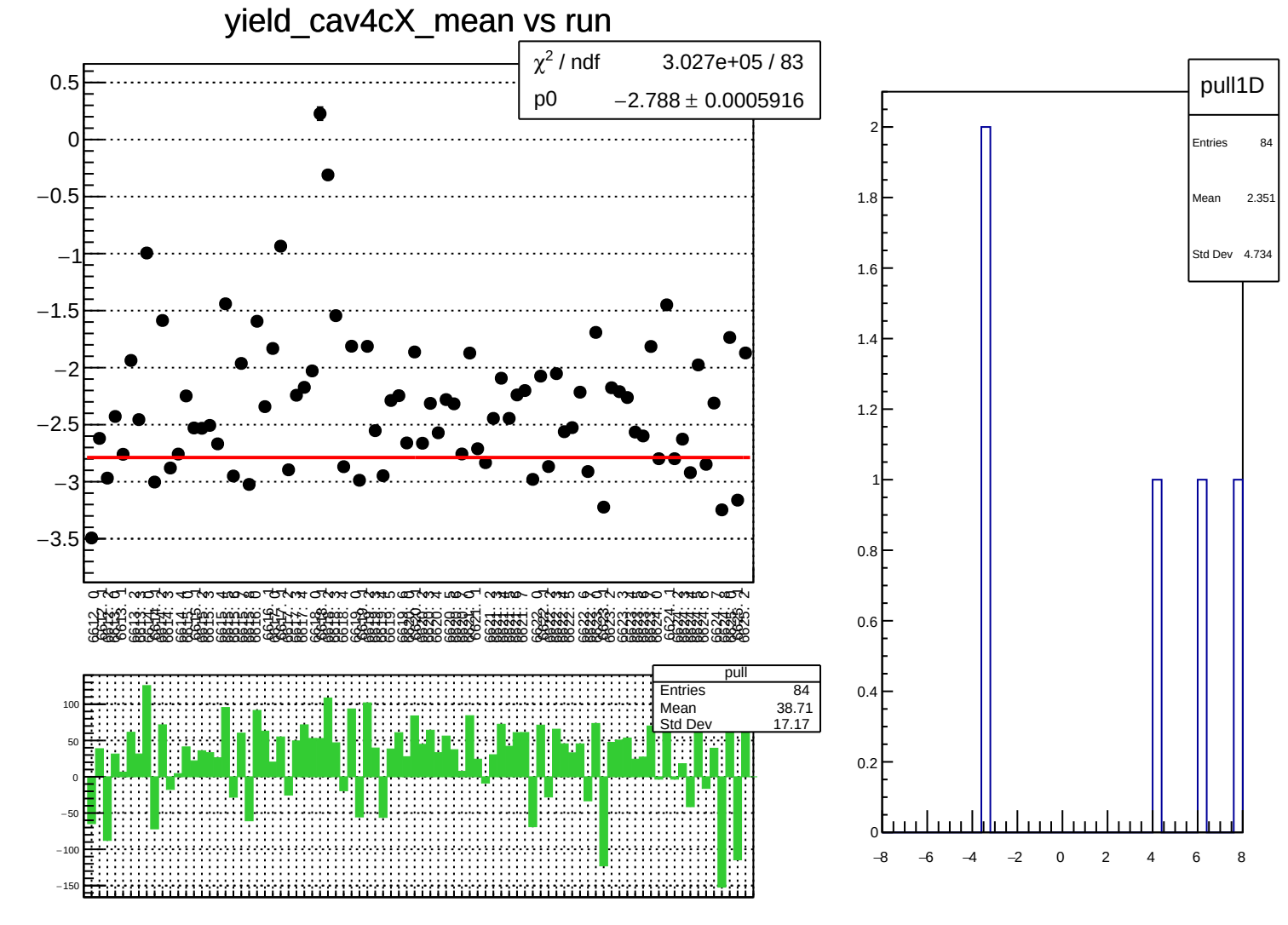

yield_cav4bX_mean vs run
χ² / ndf 4.787e+05 / 83
p0 −36.49 ± 0.001386
−30
−32
−34
−36
−38
pull
Entries 84
Mean 37.88
Std Dev 19.95
100
50
0
−50
−100
−150
−200
pull1D
Entries 84
Mean −0.6238
Std Dev 4.984
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

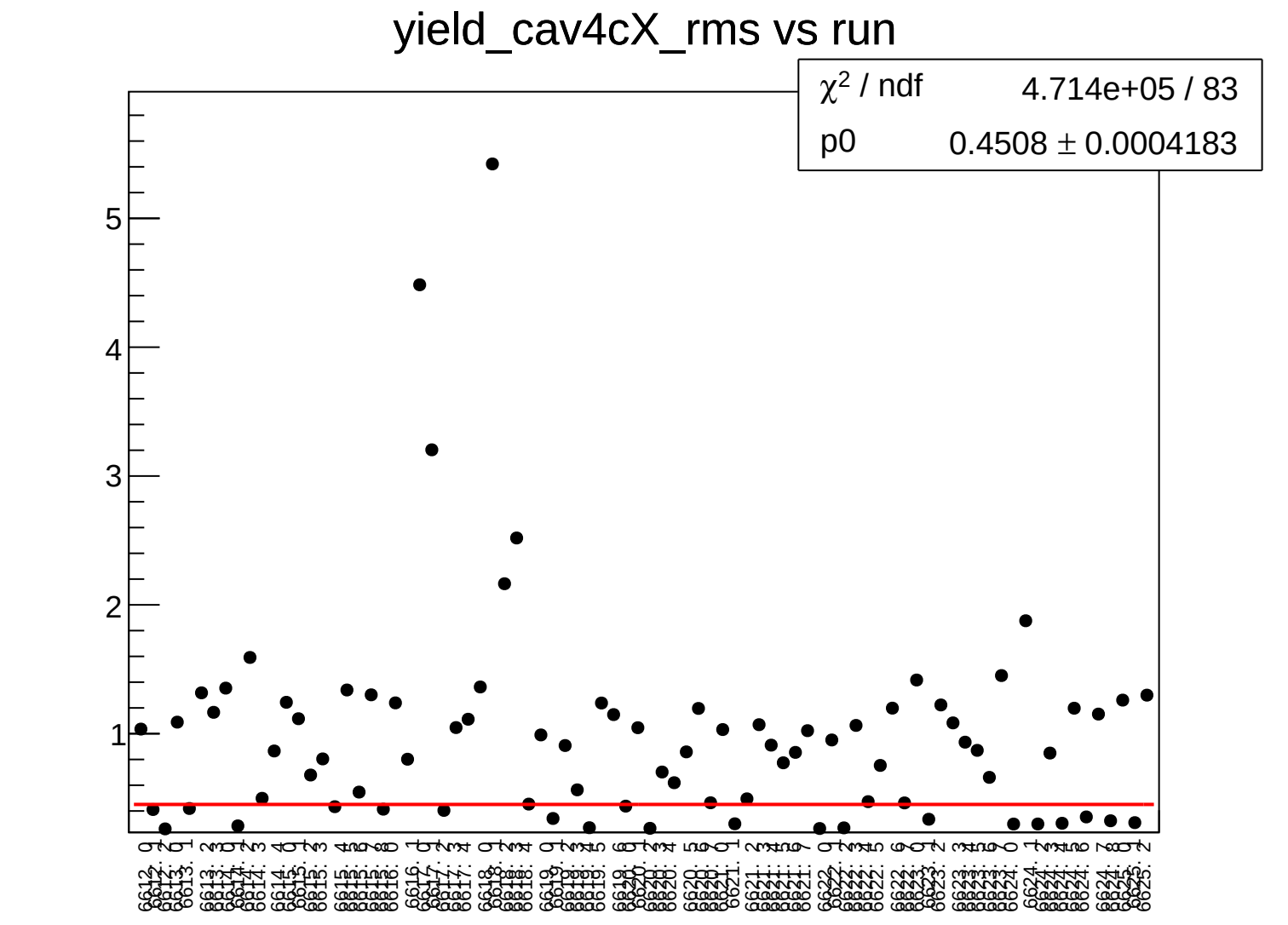

yield_cav4bX_rms vs run
χ² / ndf 4.005e+05 / 83
p0 1.088 ± 0.0009799
12
10
8
6
4
2

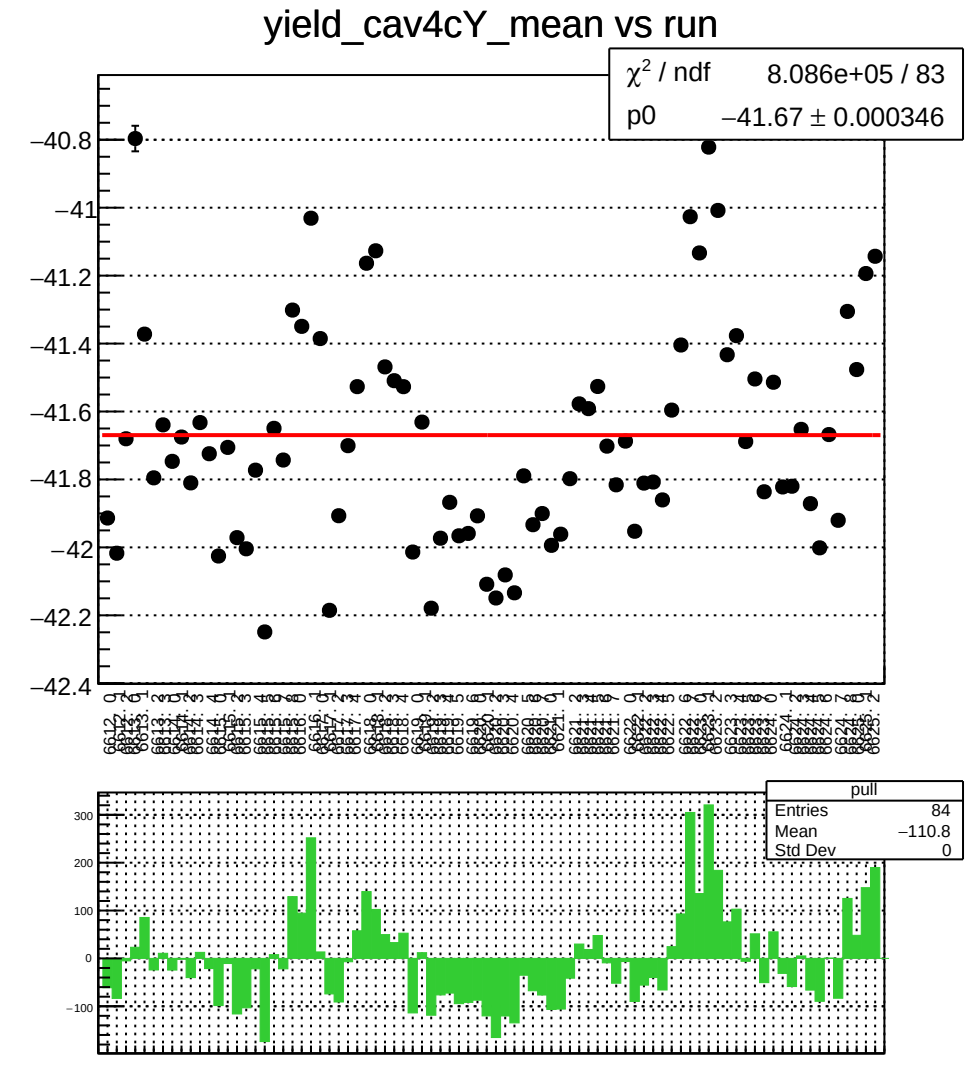

yield_cav4bY_mean vs run
χ² / ndf 3.127e+06 / 83
p0 −60.77 ± 0.001304
pull
Entries 84
Mean 40.12
Std Dev 0

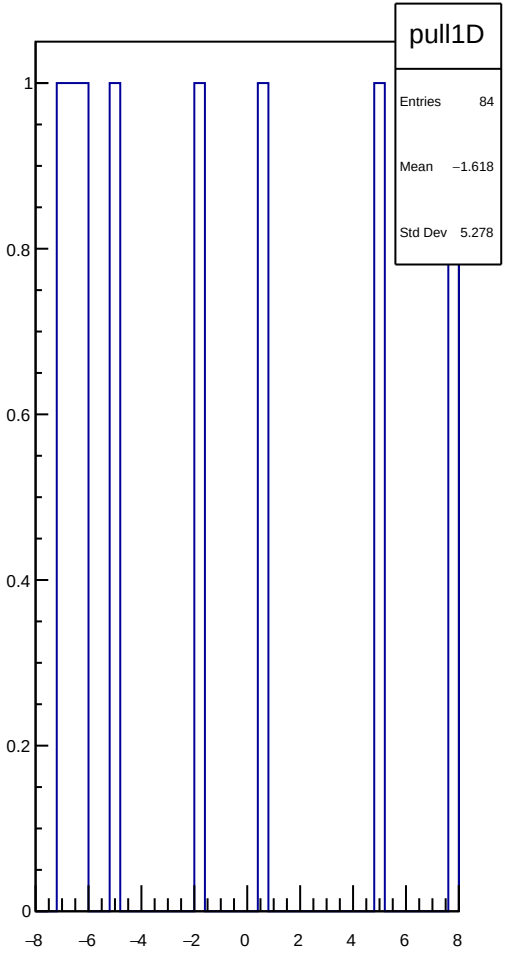

pull1D
Entries 84
Mean 1.234
Std Dev 5.605

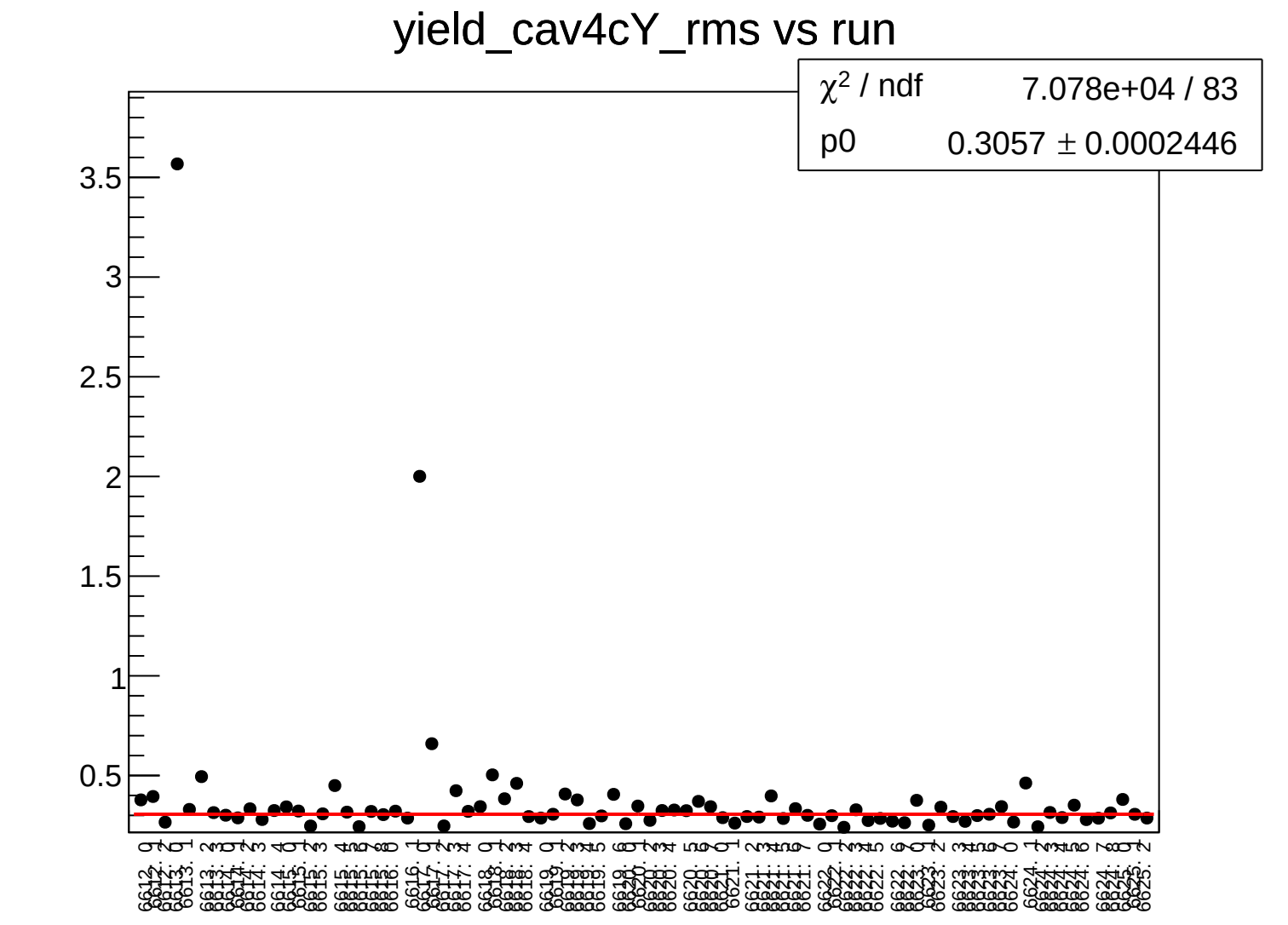

yield_cav4bY_rms vs run
χ² / ndf 5.482e+05 / 83
p0 0.9604 ± 0.0009223
8
7
6
5
4
3
2
1

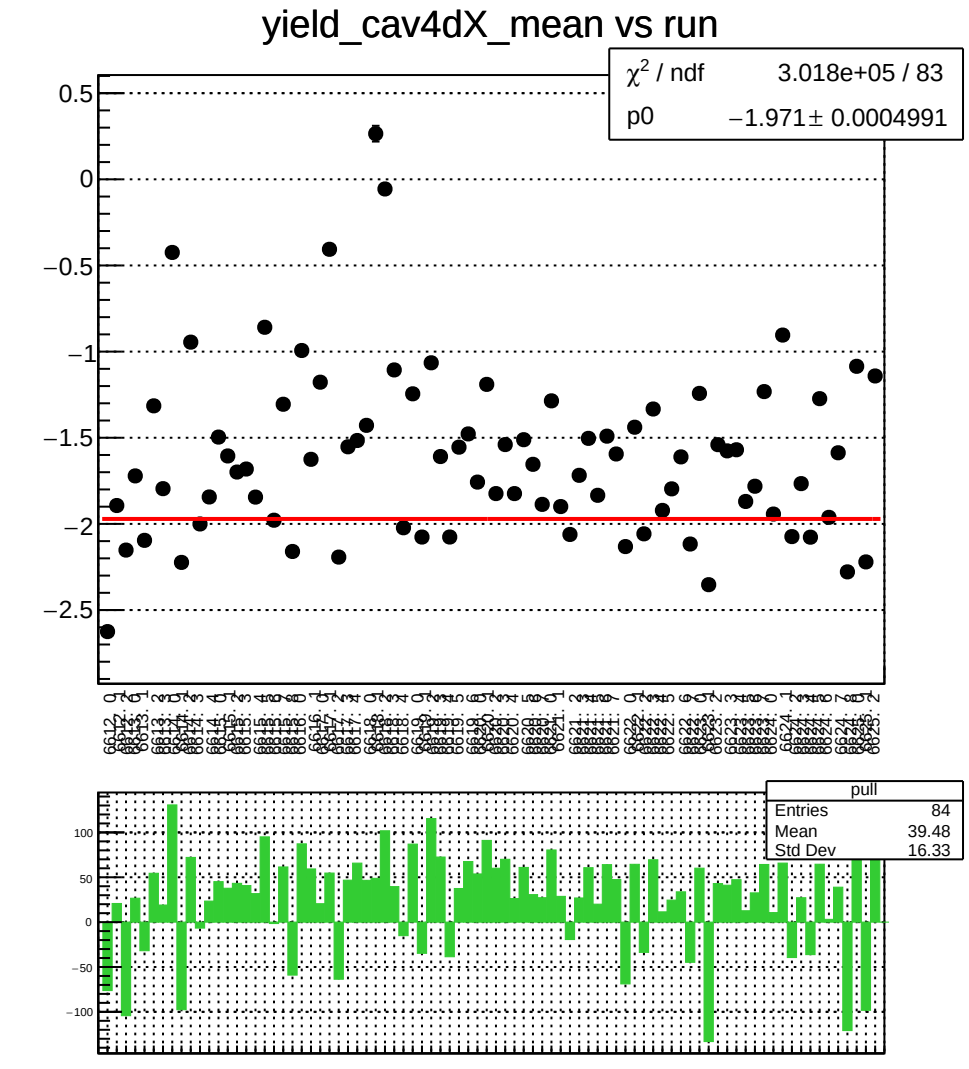

yield_cav4cX_mean vs run
χ² / ndf 3.027e+05 / 83
p0 −2.788 ± 0.0005916
pull
Entries 84
Mean 38.71
Std Dev 17.17
pull1D
Entries 84
Mean 2.351
Std Dev 4.734

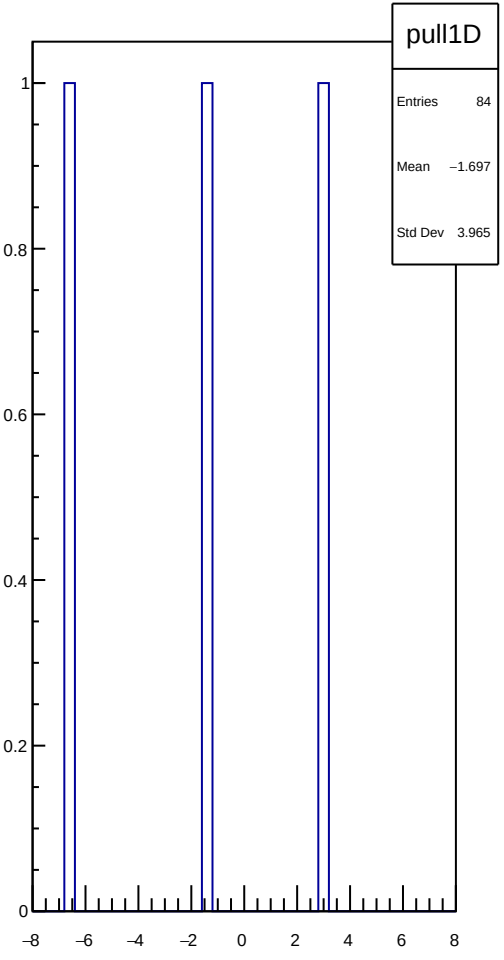

yield_cav4cX_rms vs run
χ² / ndf 4.714e+05 / 83
p0 0.4508 ± 0.0004183
5
4
3
2
1

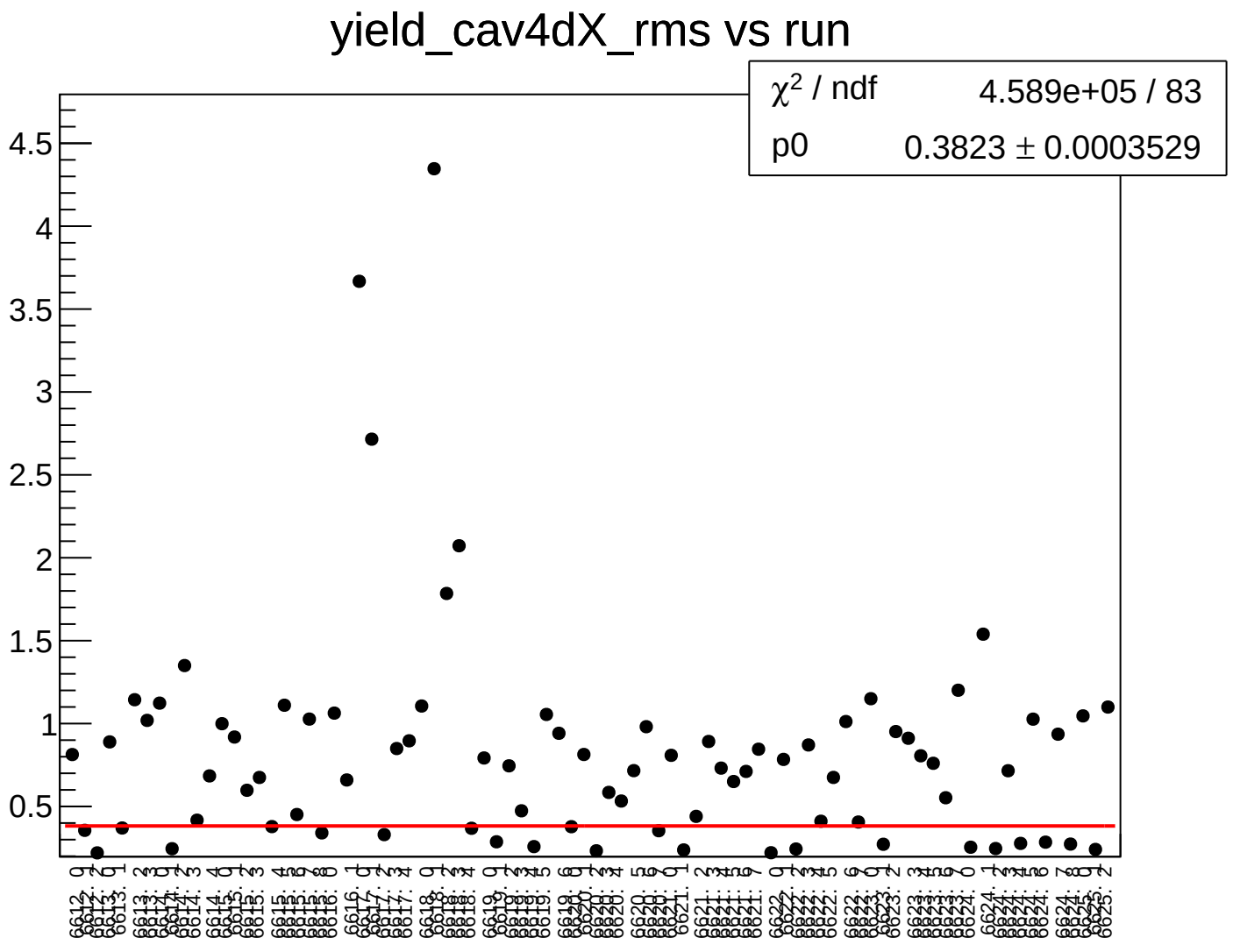

yield_cav4cY_mean vs run
χ² / ndf 8.086e+05 / 83
p0 −41.67 ± 0.000346
−40.8
−41
−41.2
−41.4
−41.6
−41.8
−42
−42.2
−42.4
pull
Entries 84
Mean −110.8
Std Dev 0
300
200
100
0
−100

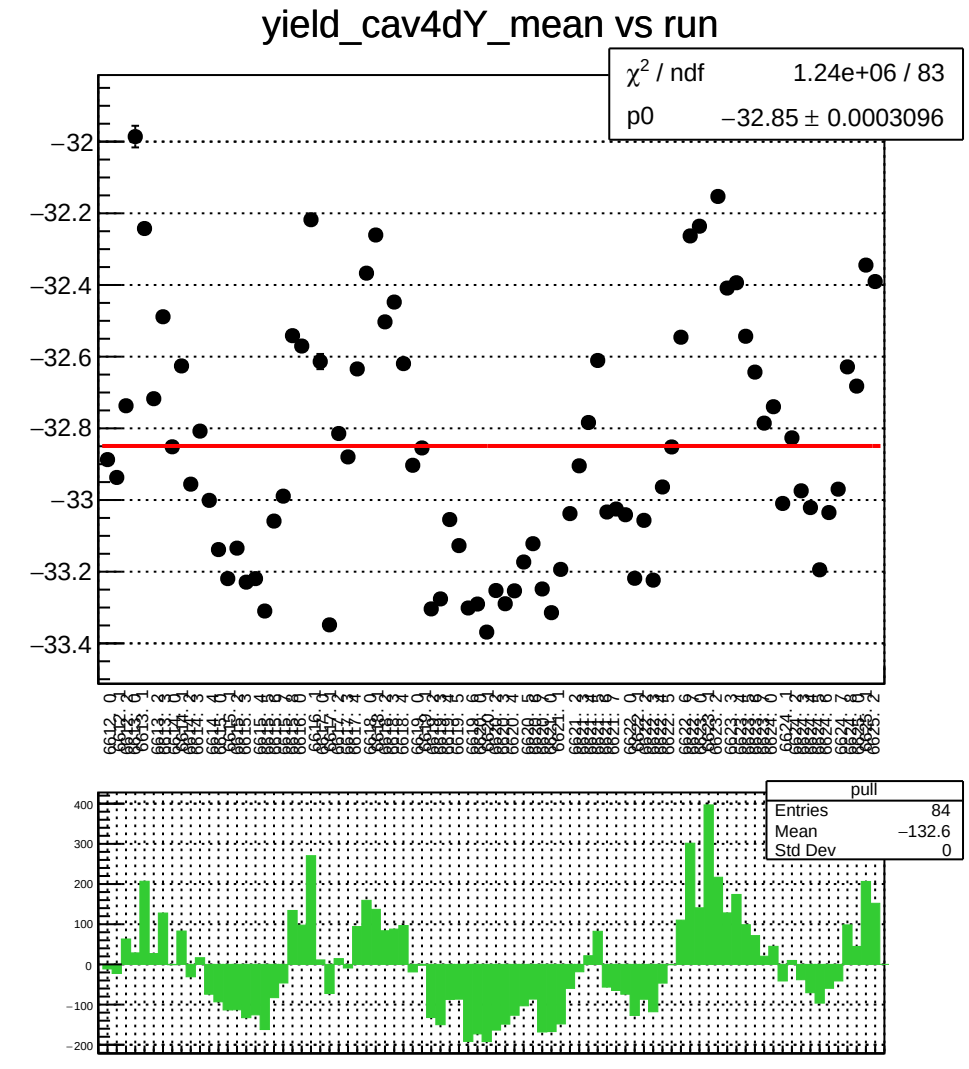

pull1D
Entries 84
Mean −1.618
Std Dev 5.278
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

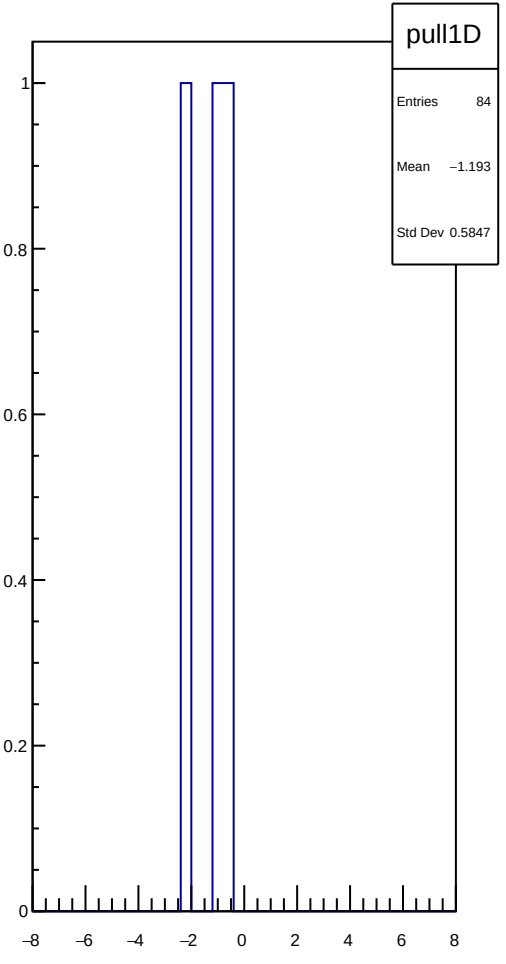

yield_cav4cY_rms vs run
χ² / ndf 7.078e+04 / 83
p0 0.3057 ± 0.0002446
3.5
3
2.5
2
1.5
1
0.5

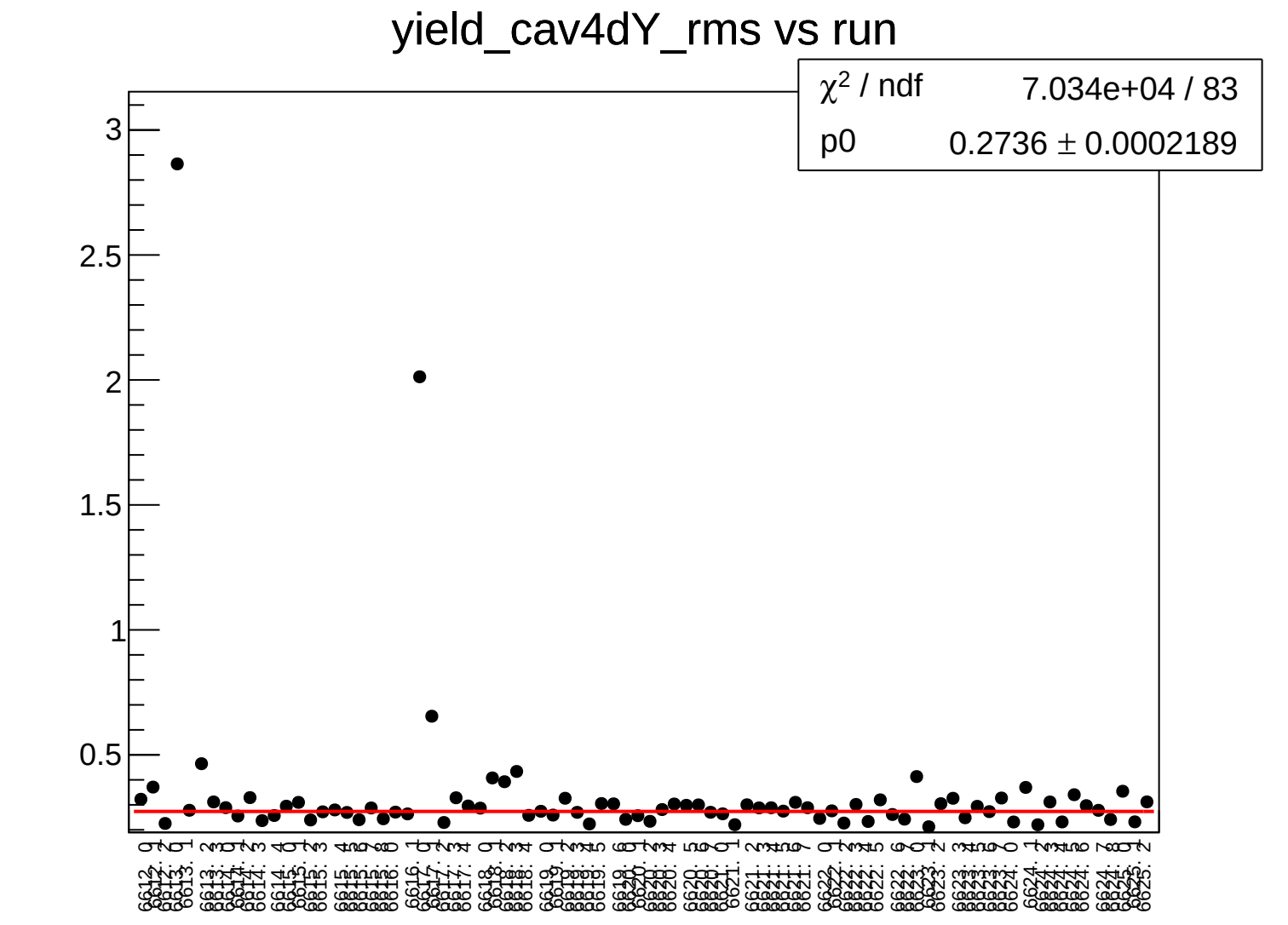

yield_cav4dX_mean vs run
χ² / ndf 3.018e+05 / 83
p0 −1.971± 0.0004991
pull
Entries 84
Mean 39.48
Std Dev 16.33

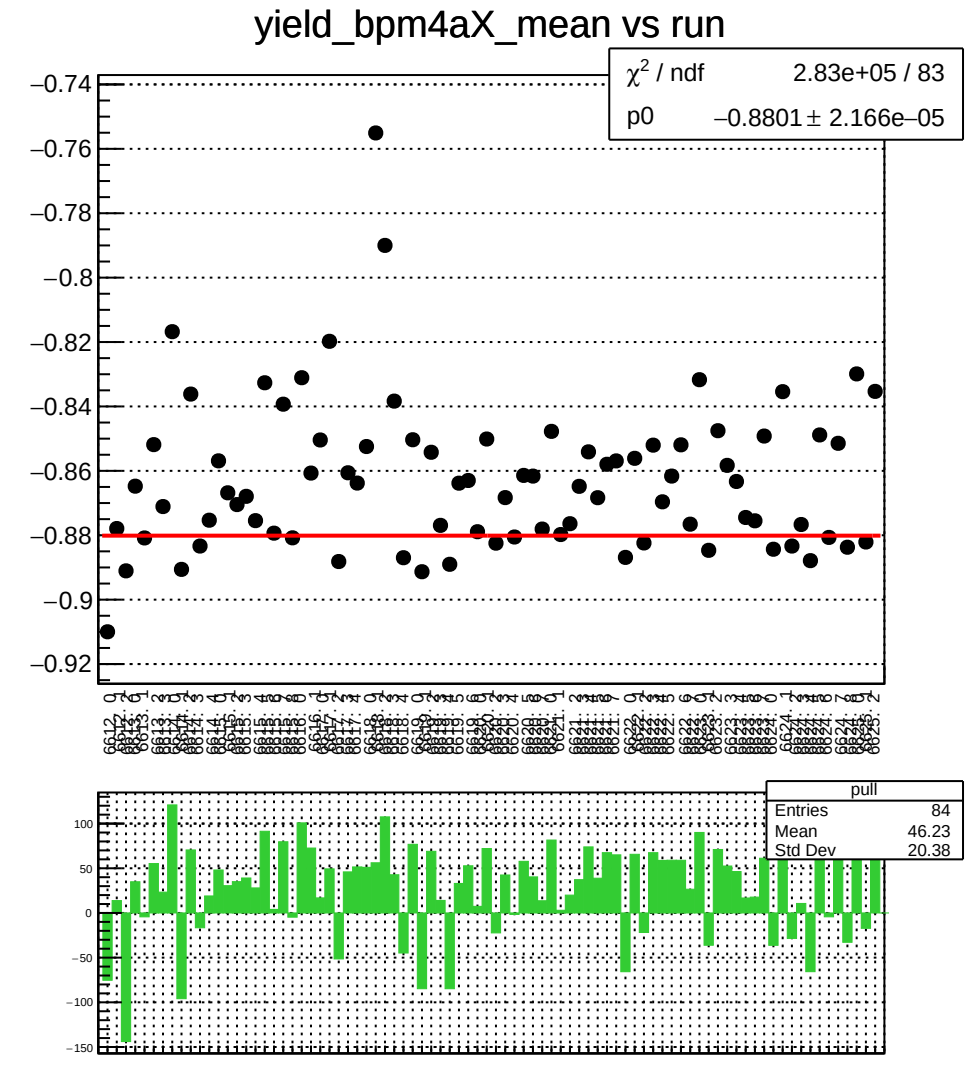

pull1D
Entries 84
Mean −1.697
Std Dev 3.965

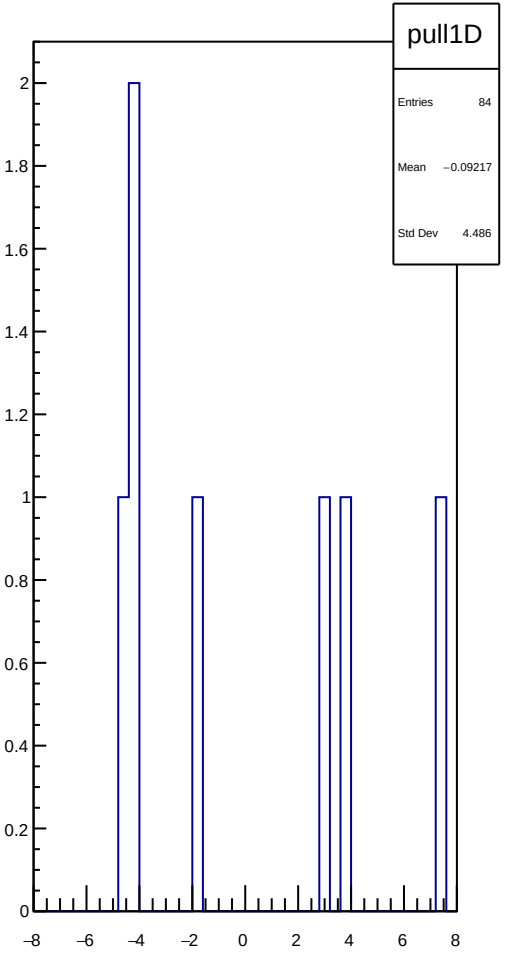

yield_cav4dX_rms vs run
χ^2 / ndf 4.589e+05 / 83
p0 0.3823 ± 0.0003529
4.5
4
3.5
3
2.5
2
1.5
1
0.5

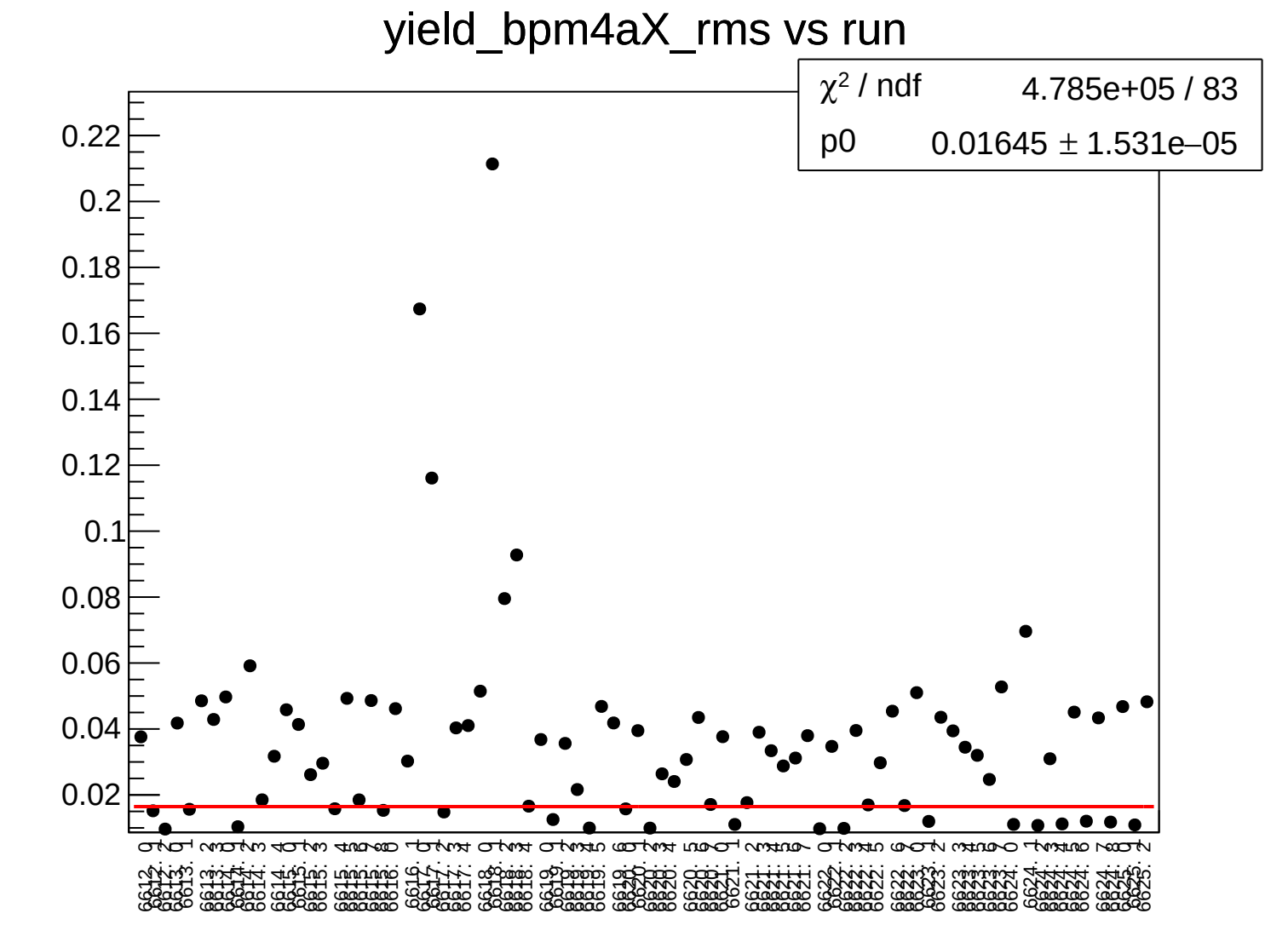

yield_cav4dY_mean vs run
χ² / ndf 1.24e+06 / 83
p0 −32.85 ± 0.0003096
−32
−32.2
−32.4
−32.6
−32.8
−33
−33.2
−33.4
pull
Entries 84
Mean −132.6
Std Dev 0
400
300
200
100
0
−100
−200

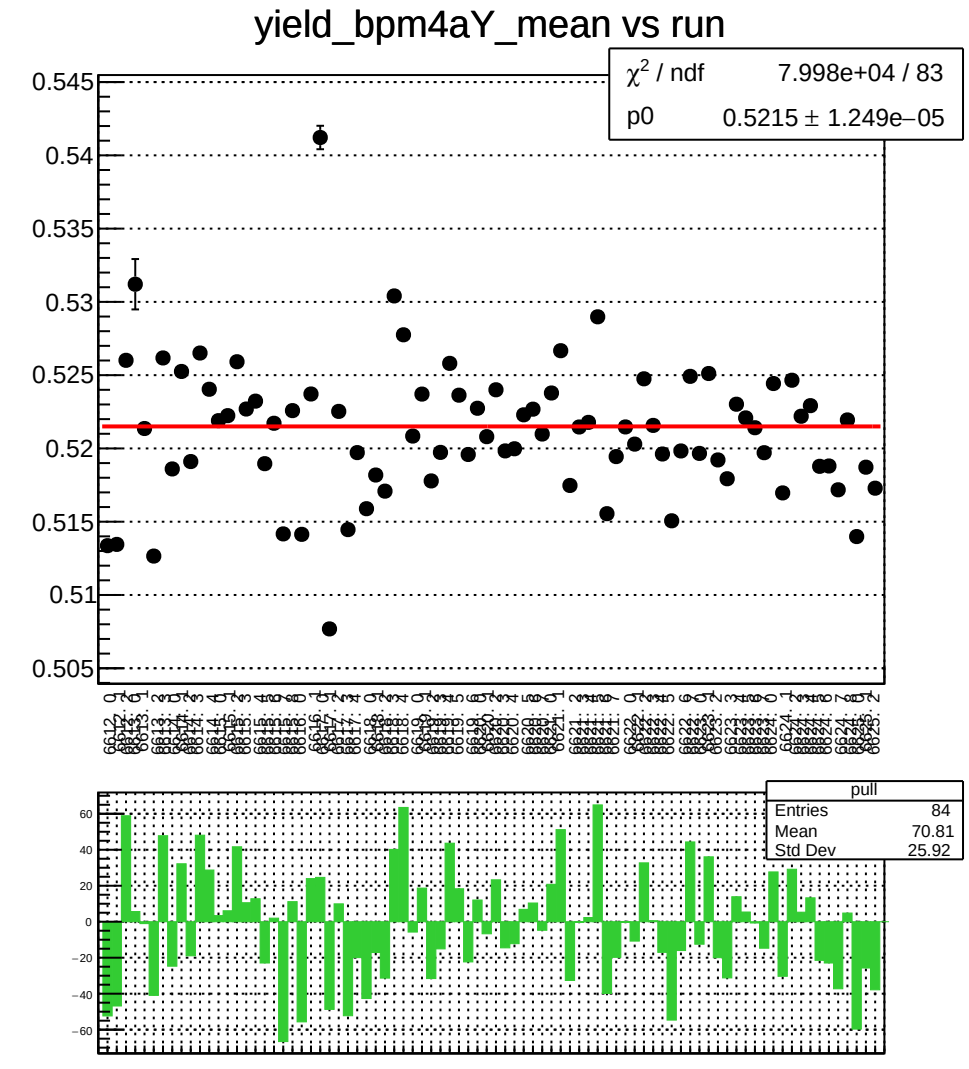

pull1D
Entries 84
Mean −1.193
Std Dev 0.5847
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

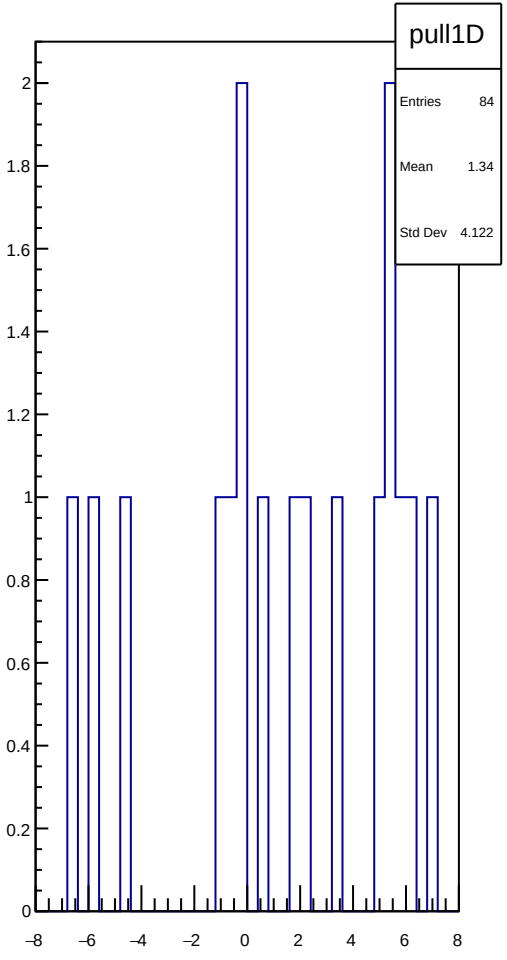

yield_cav4dY_rms vs run
χ² / ndf 7.034e+04 / 83
p0 0.2736 ± 0.0002189
3
2.5
2
1.5
1
0.5

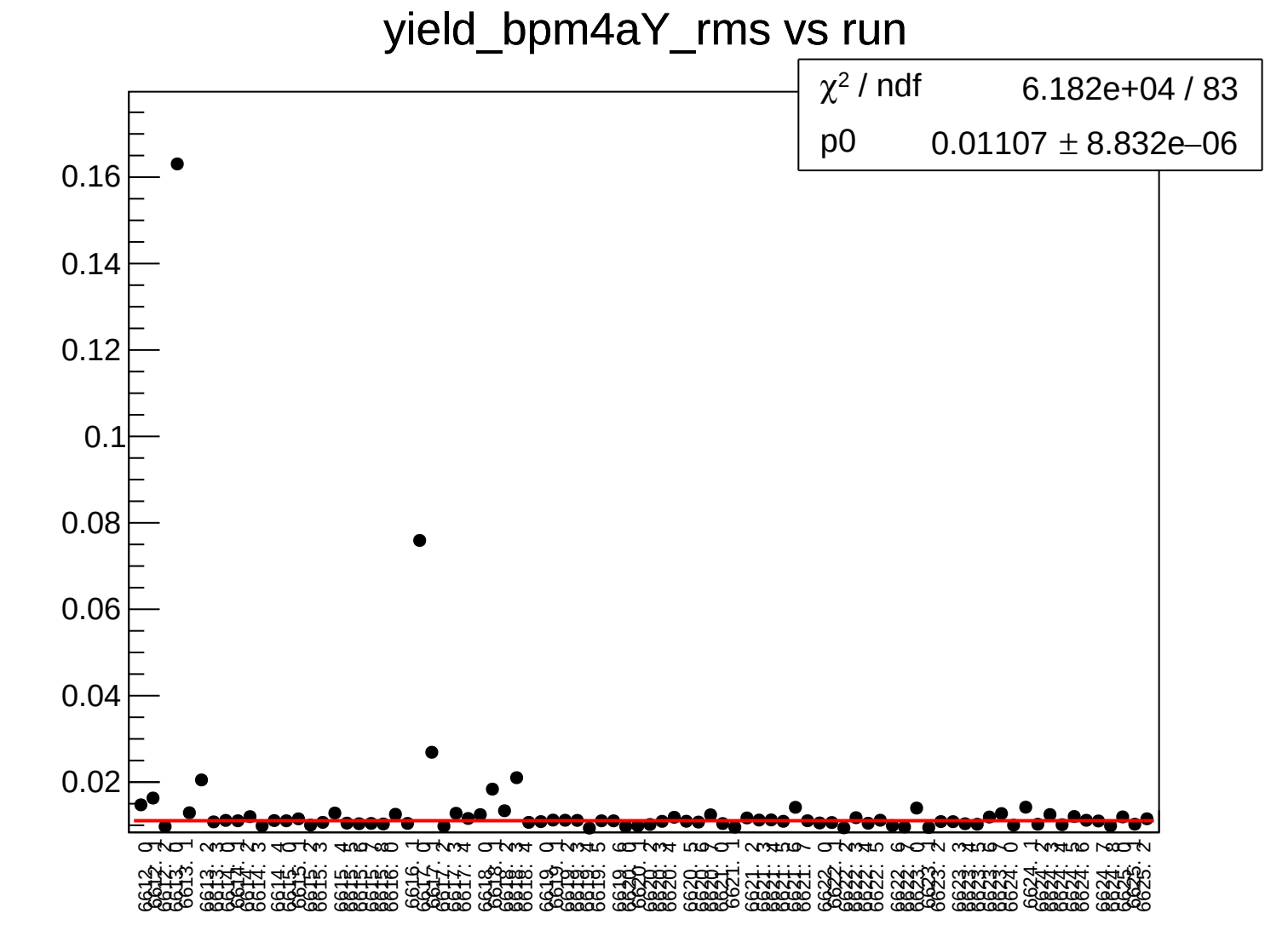

yield_bpm4aX_mean vs run
χ² / ndf 2.83e+05 / 83
p0 −0.8801 ± 2.166e−05
pull
Entries 84
Mean 46.23
Std Dev 20.38

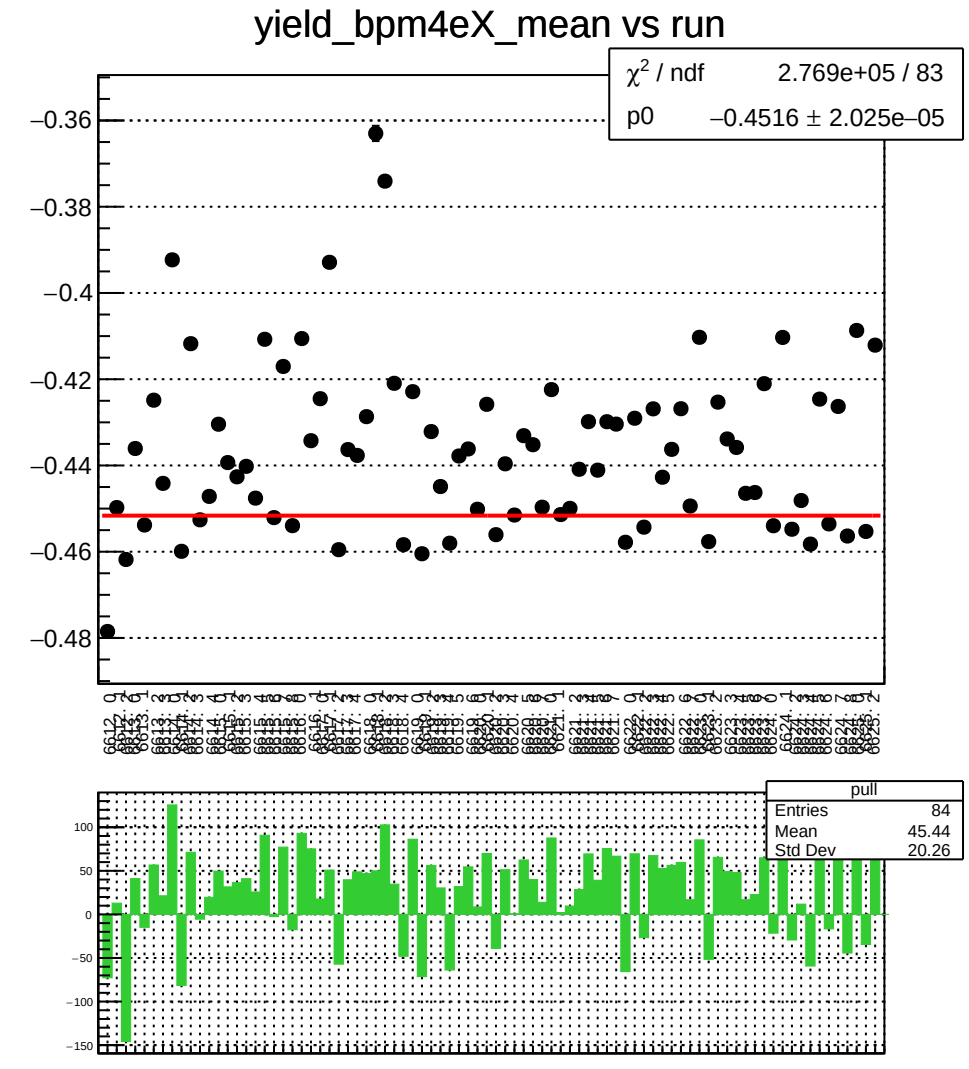

pull1D
Entries 84
Mean −0.09217
Std Dev 4.486

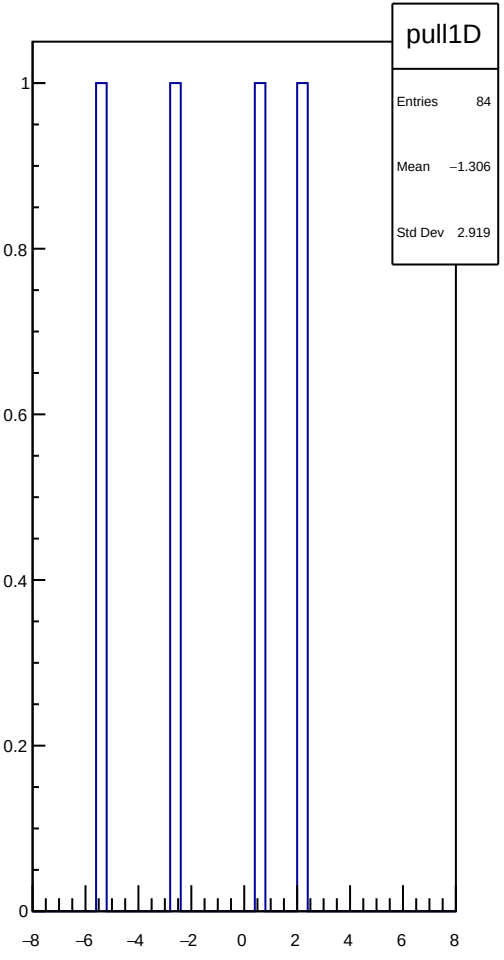

yield_bpm4aX_rms vs run
χ² / ndf 4.785e+05 / 83
p0 0.01645 ± 1.531e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

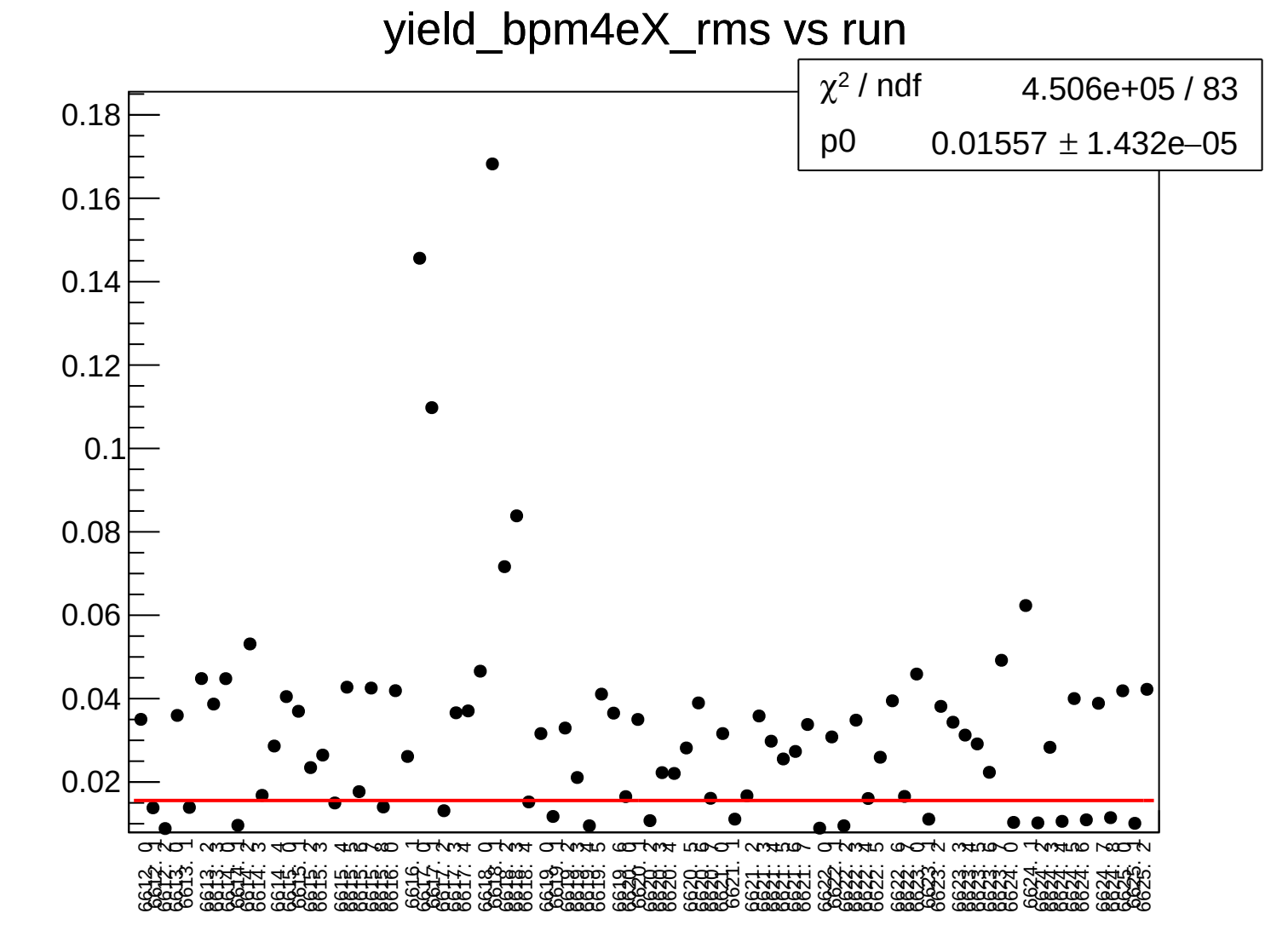

yield_bpm4aY_mean vs run
χ² / ndf 7.998e+04 / 83
p0 0.5215 ± 1.249e−05
pull
Entries 84
Mean 70.81
Std Dev 25.92

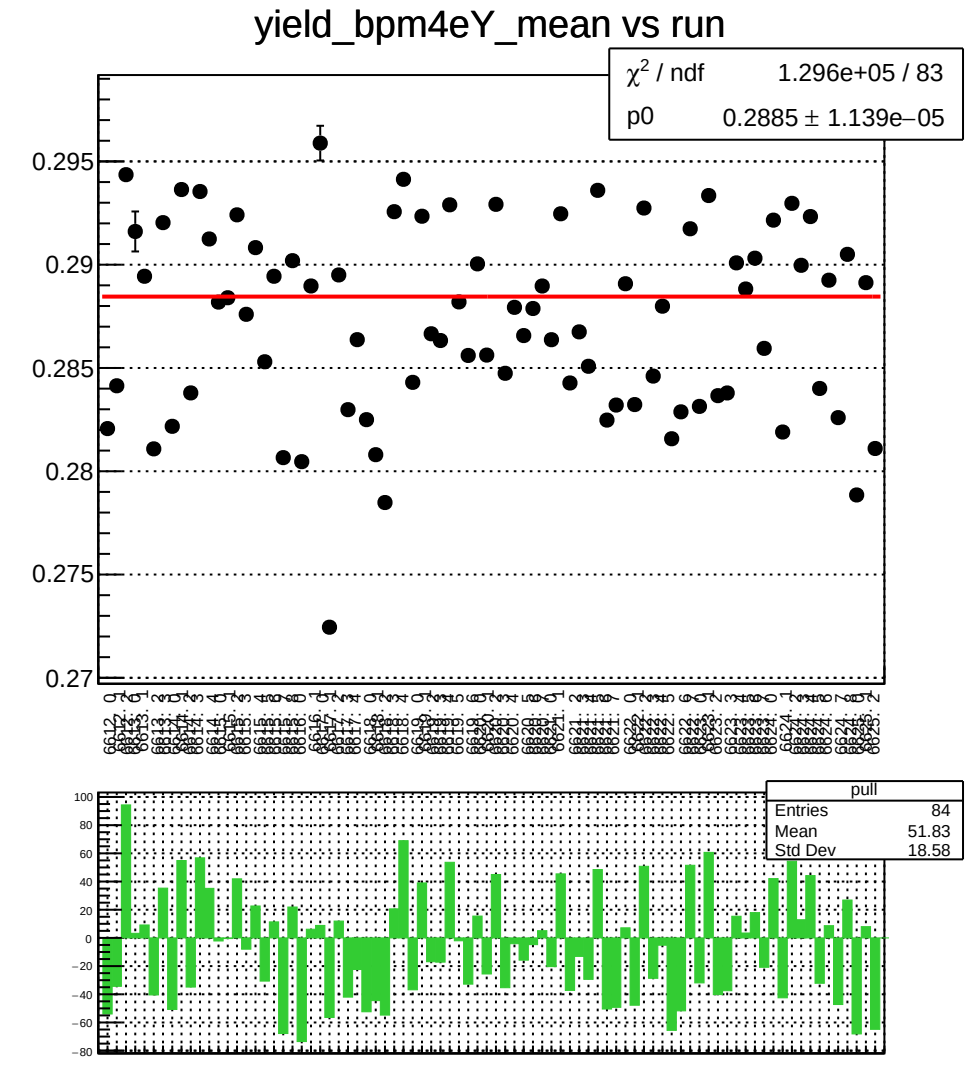

pull1D
Entries 84
Mean 1.34
Std Dev 4.122

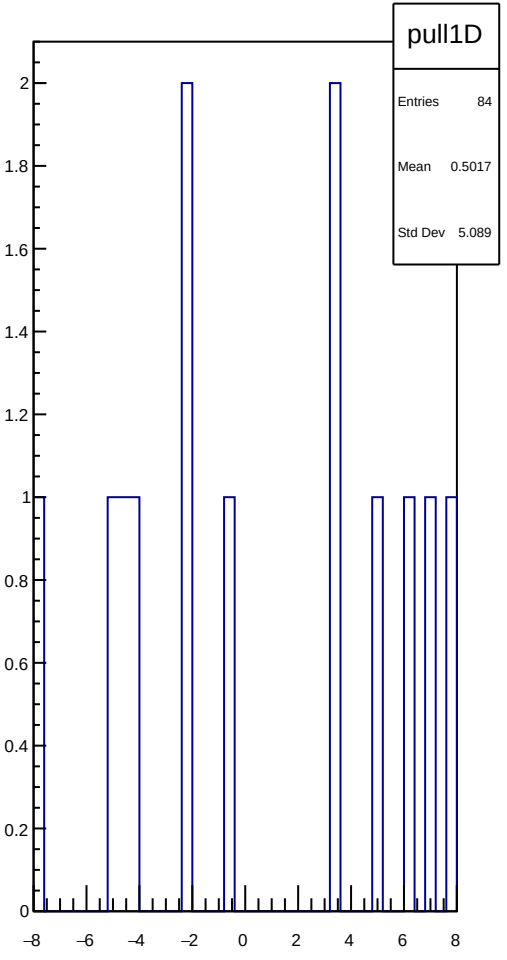

yield_bpm4aY_rms vs run
χ² / ndf 6.182e+04 / 83
p0 0.01107 ± 8.832e–06
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

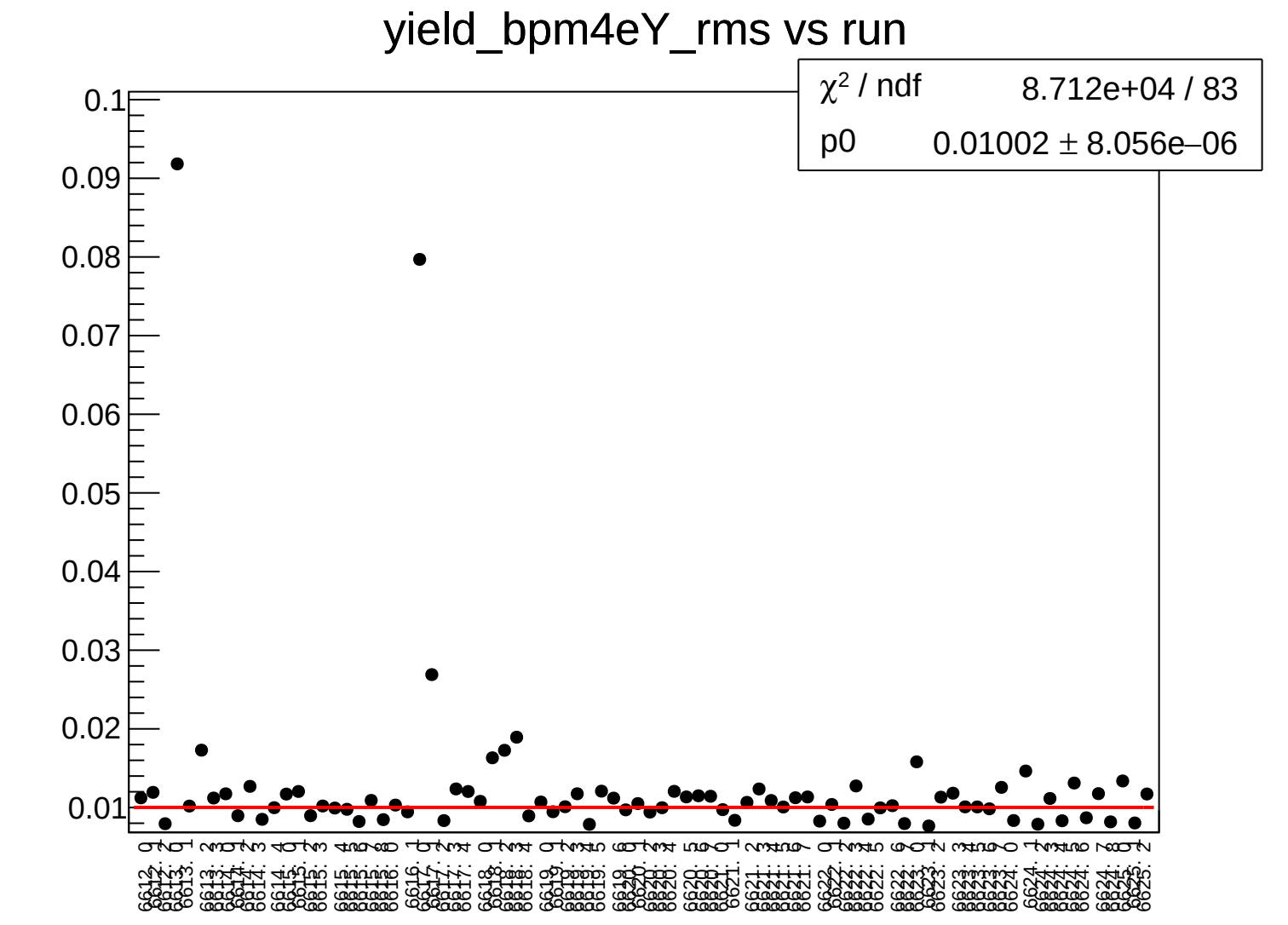

yield_bpm4eX_mean vs run
χ² / ndf 2.769e+05 / 83
p0 −0.4516 ± 2.025e−05
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
pull
Entries 84
Mean 45.44
Std Dev 20.26
100
50
0
−50
−100
−150

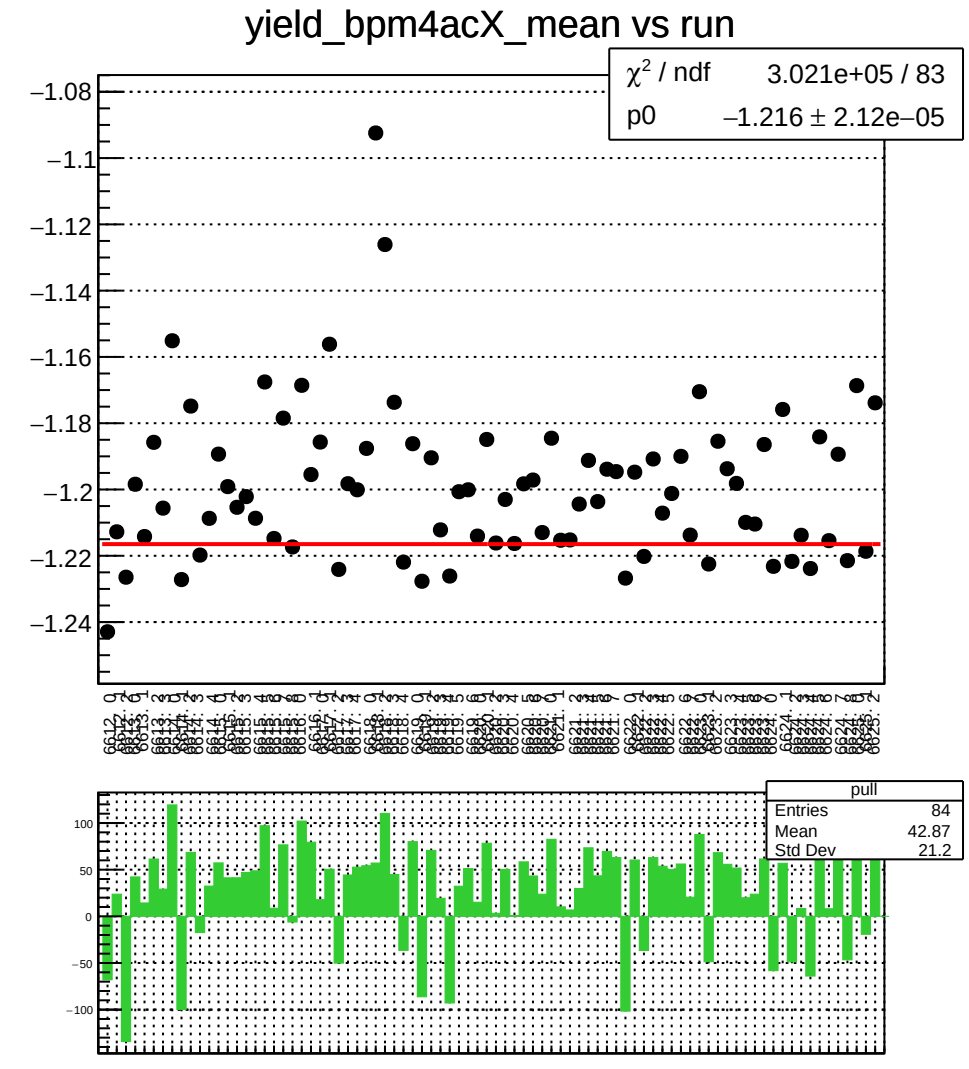

pull1D
Entries 84
Mean −1.306
Std Dev 2.919
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

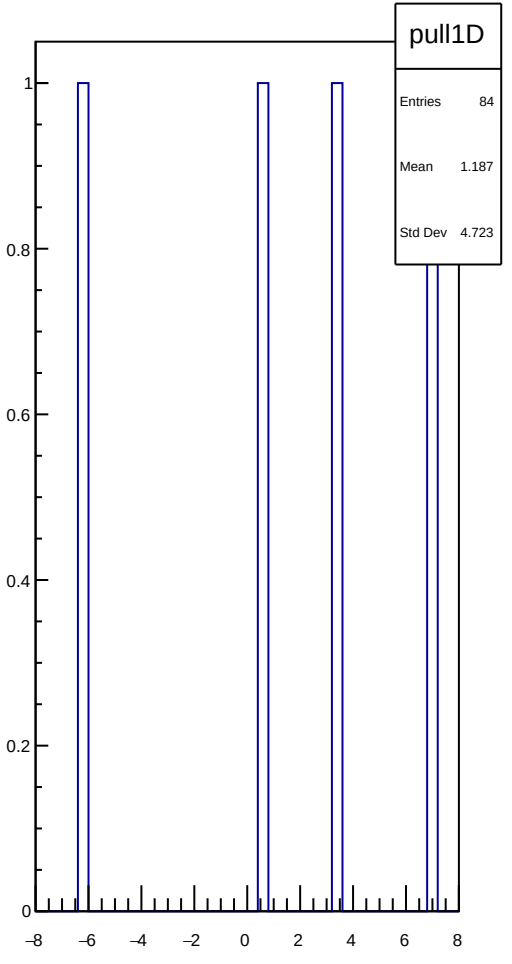

yield_bpm4eX_rms vs run
χ² / ndf 4.506e+05 / 83
p0 0.01557 ± 1.432e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

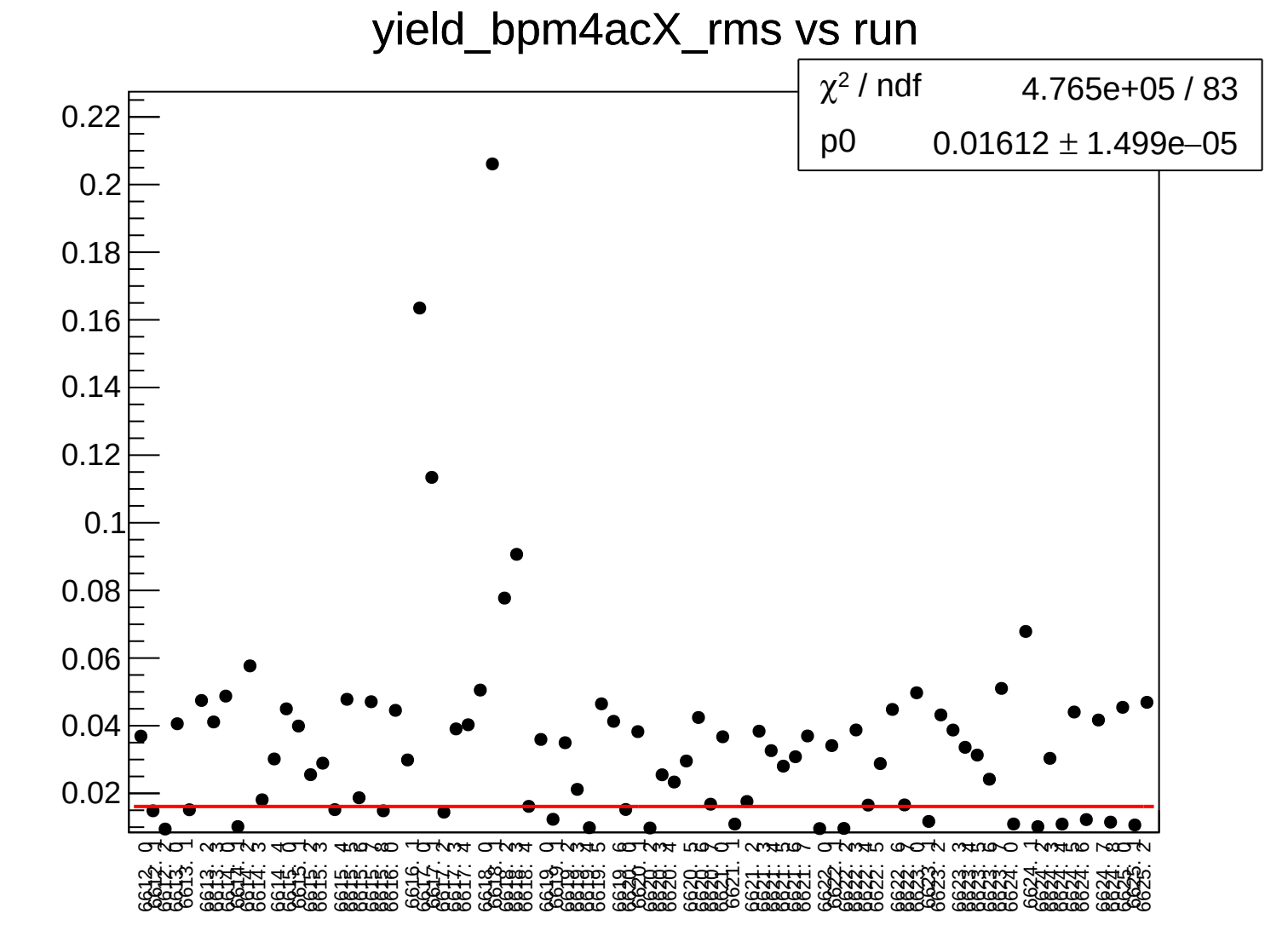

yield_bpm4eY_mean vs run
χ² / ndf 1.296e+05 / 83
p0 0.2885 ± 1.139e−05
0.295
0.29
0.285
0.28
0.275
0.27
pull
Entries 84
Mean 51.83
Std Dev 18.58
100
80
60
40
20
0
−20
−40
−60
−80

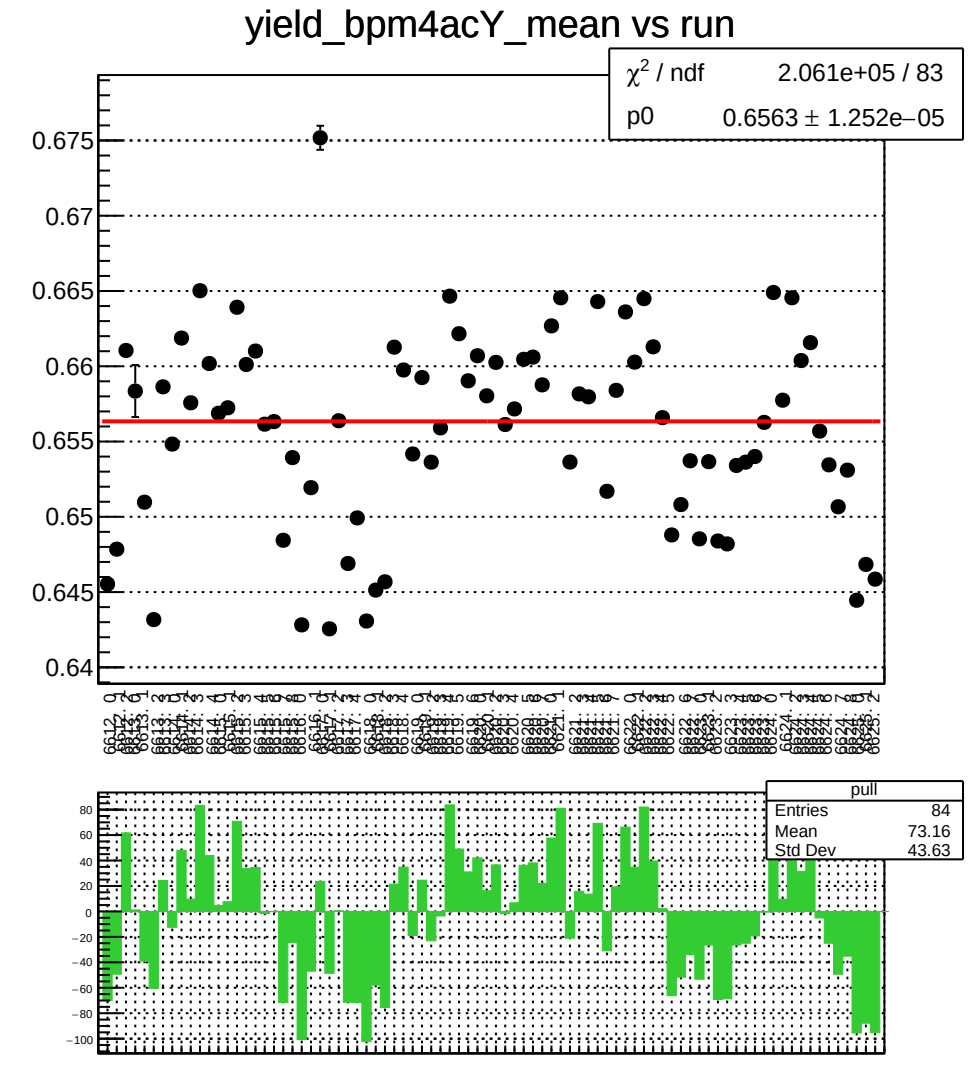

pull1D
Entries 84
Mean 0.5017
Std Dev 5.089
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

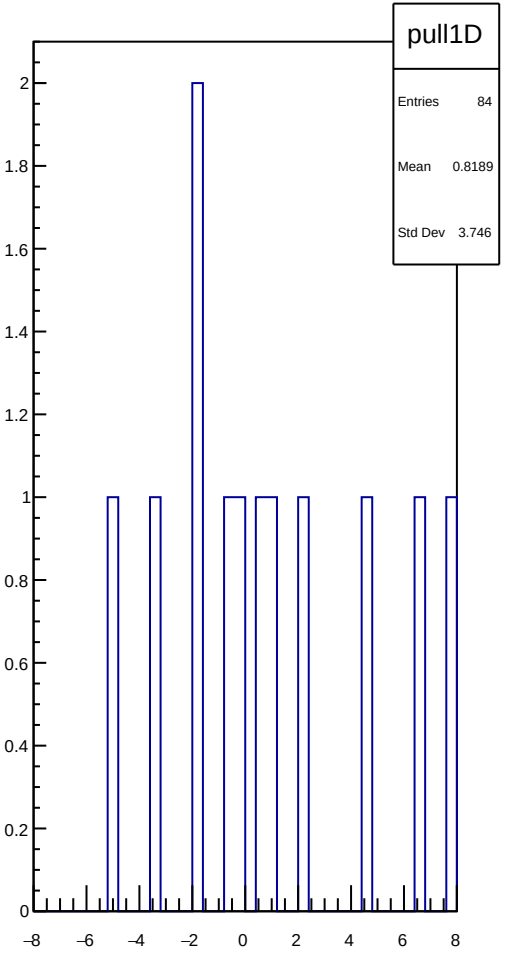

yield_bpm4eY_rms vs run
χ² / ndf 8.712e+04 / 83
p0 0.01002 ± 8.056e–06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

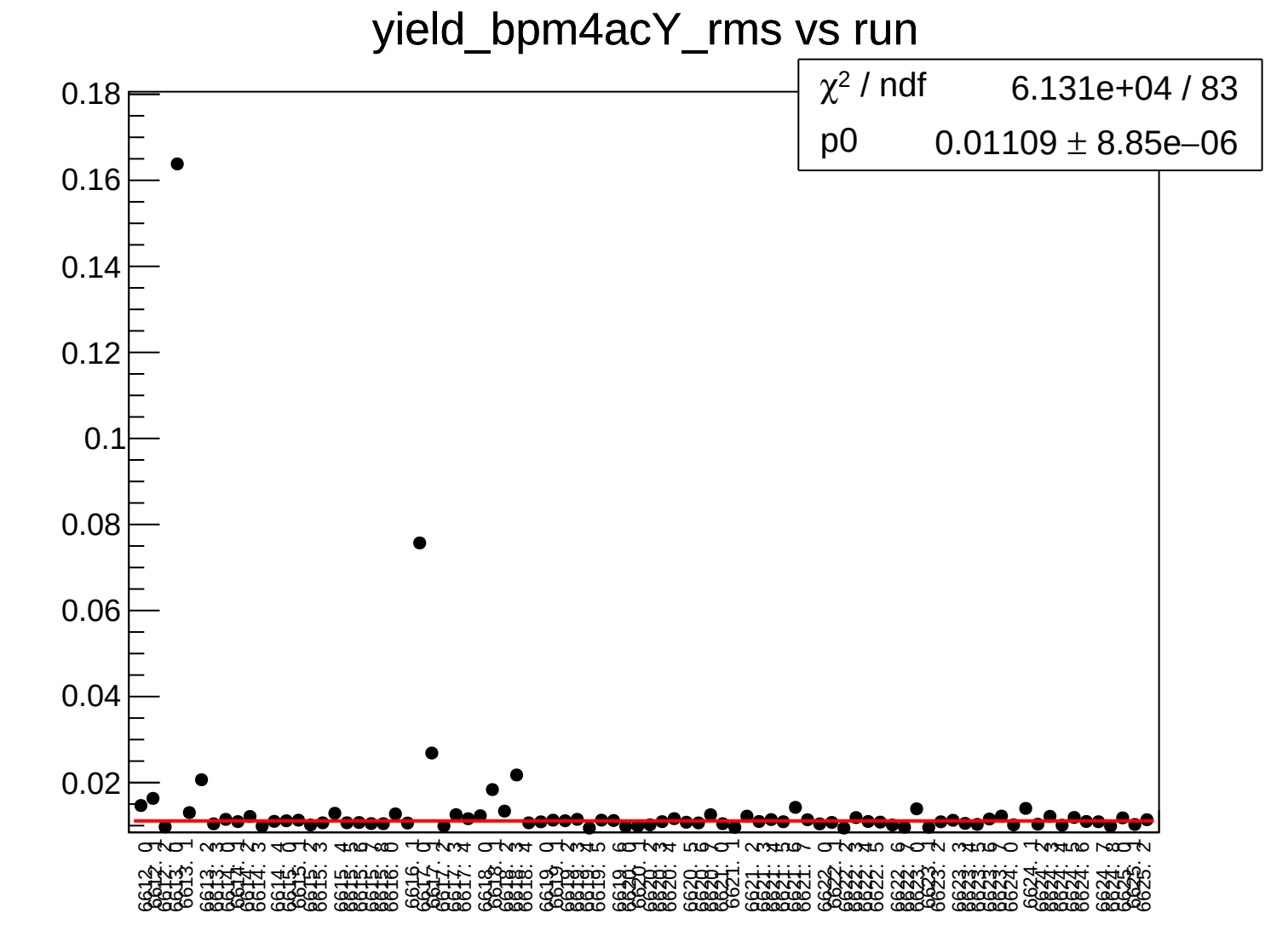

yield_bpm4acX_mean vs run
χ² / ndf 3.021e+05 / 83
p0 −1.216 ± 2.12e−05
−1.08
−1.1
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
−1.24
pull
Entries 84
Mean 42.87
Std Dev 21.2
100
50
0
−50
−100

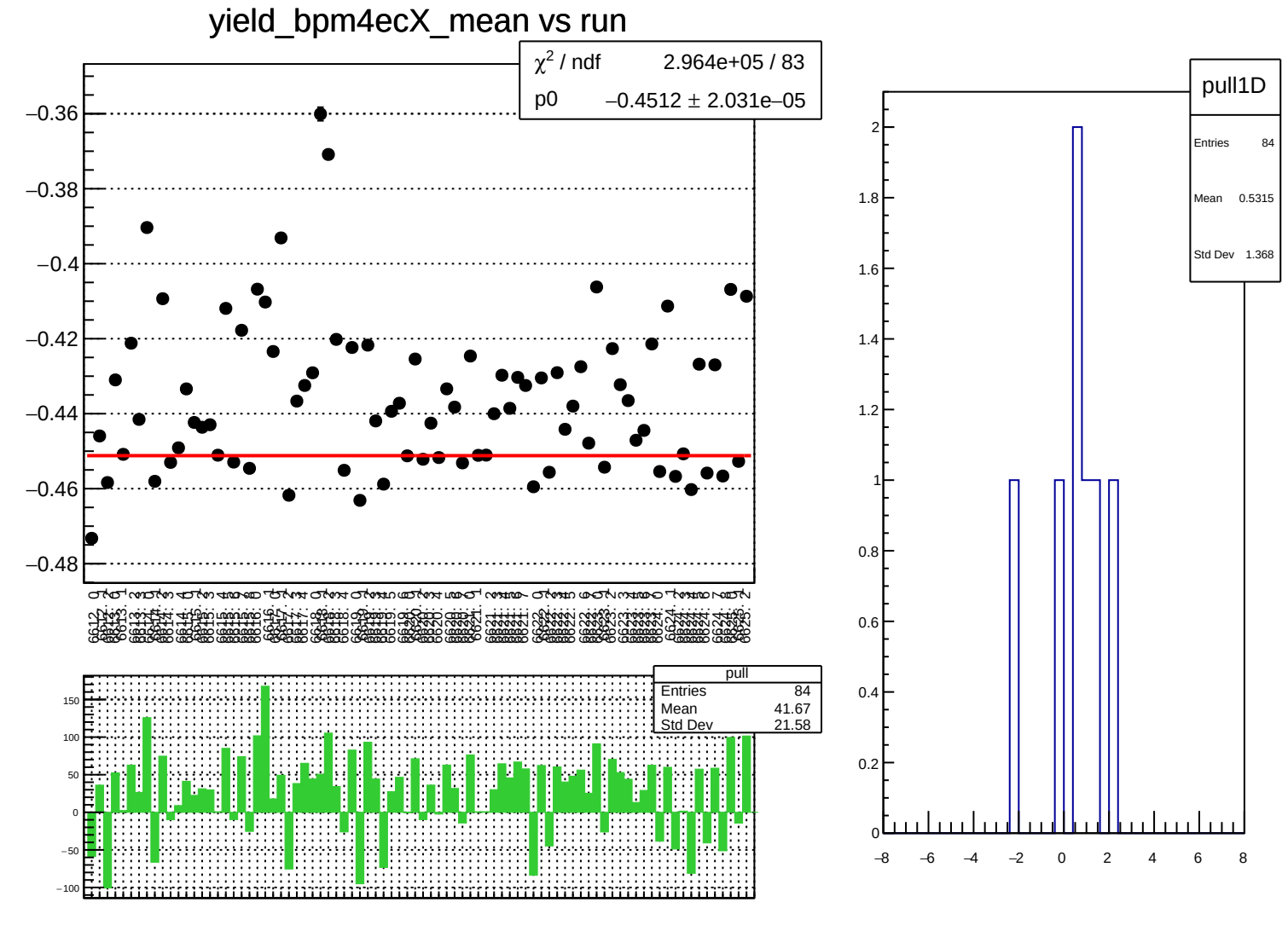

pull1D
Entries 84
Mean 1.187
Std Dev 4.723
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

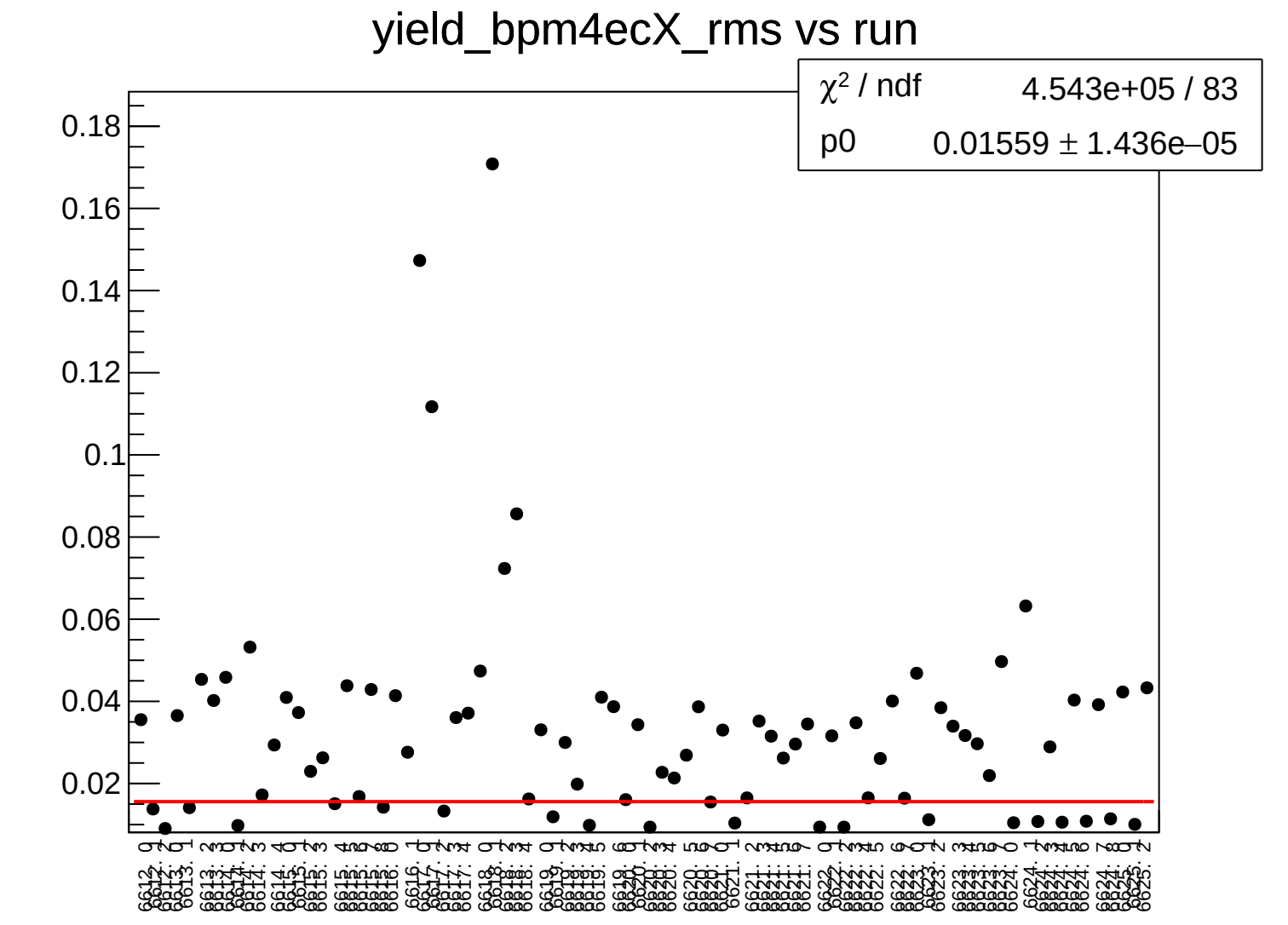

yield_bpm4acX_rms vs run
χ² / ndf 4.765e+05 / 83
p0 0.01612 ± 1.499e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

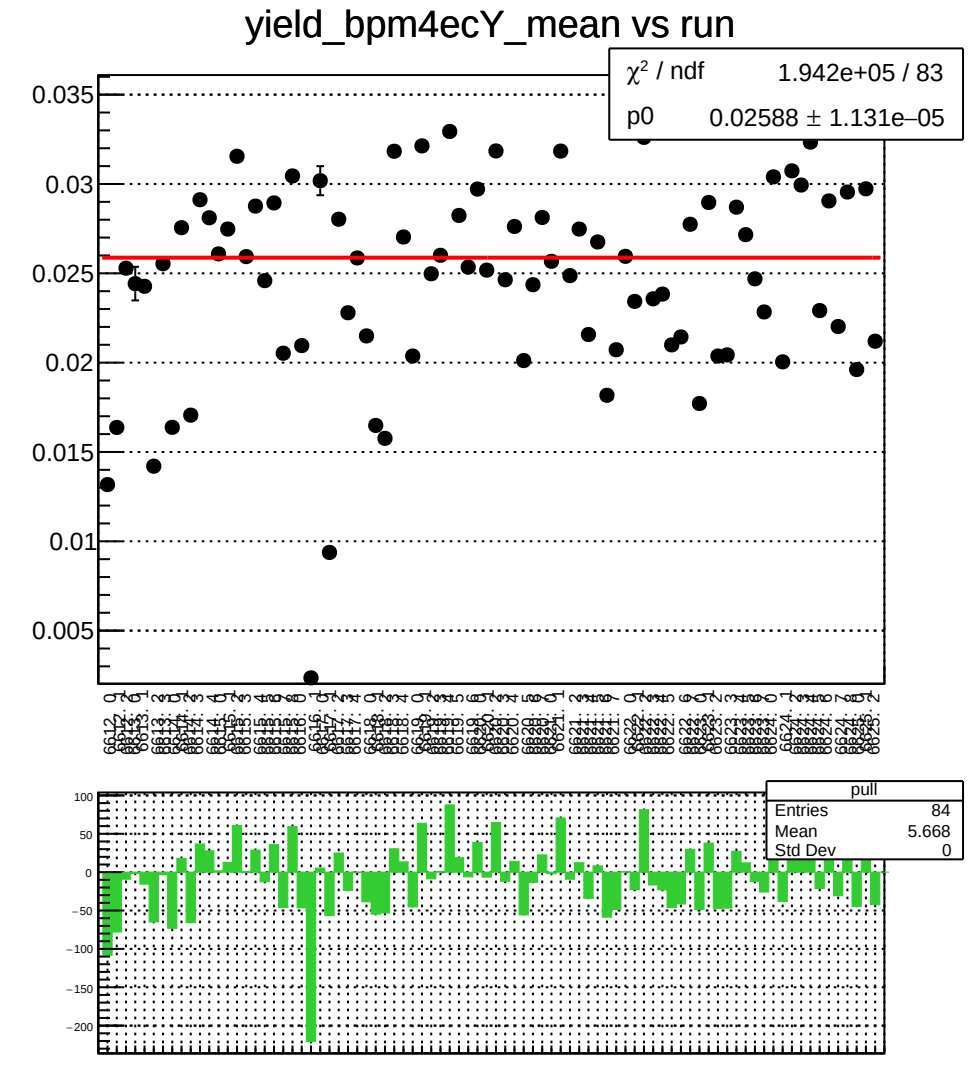

yield_bpm4acY_mean vs run
χ² / ndf 2.061e+05 / 83
p0 0.6563 ± 1.252e−05
0.675
0.67
0.665
0.66
0.655
0.65
0.645
0.64
pull
Entries 84
Mean 73.16
Std Dev 43.63
80
60
40
20
0
−20
−40
−60
−80
−100

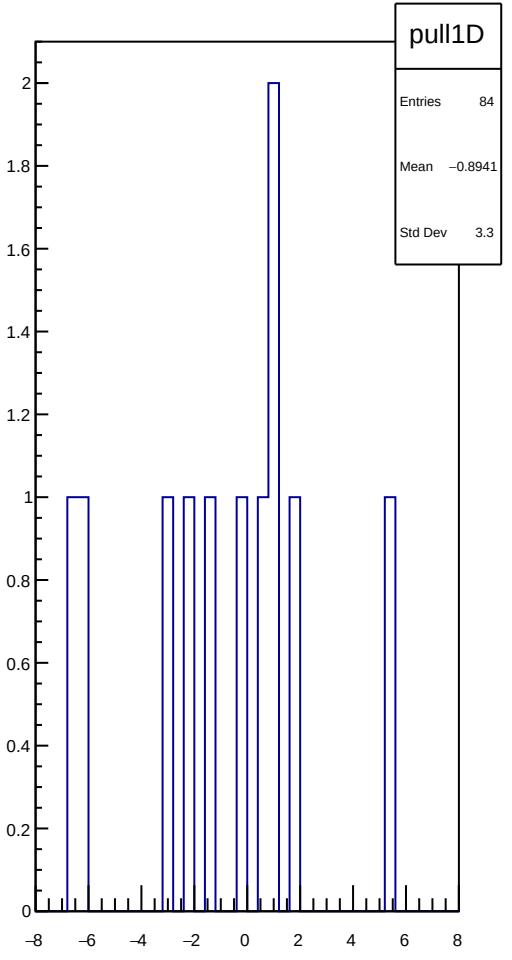

pull1D
Entries 84
Mean 0.8189
Std Dev 3.746
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

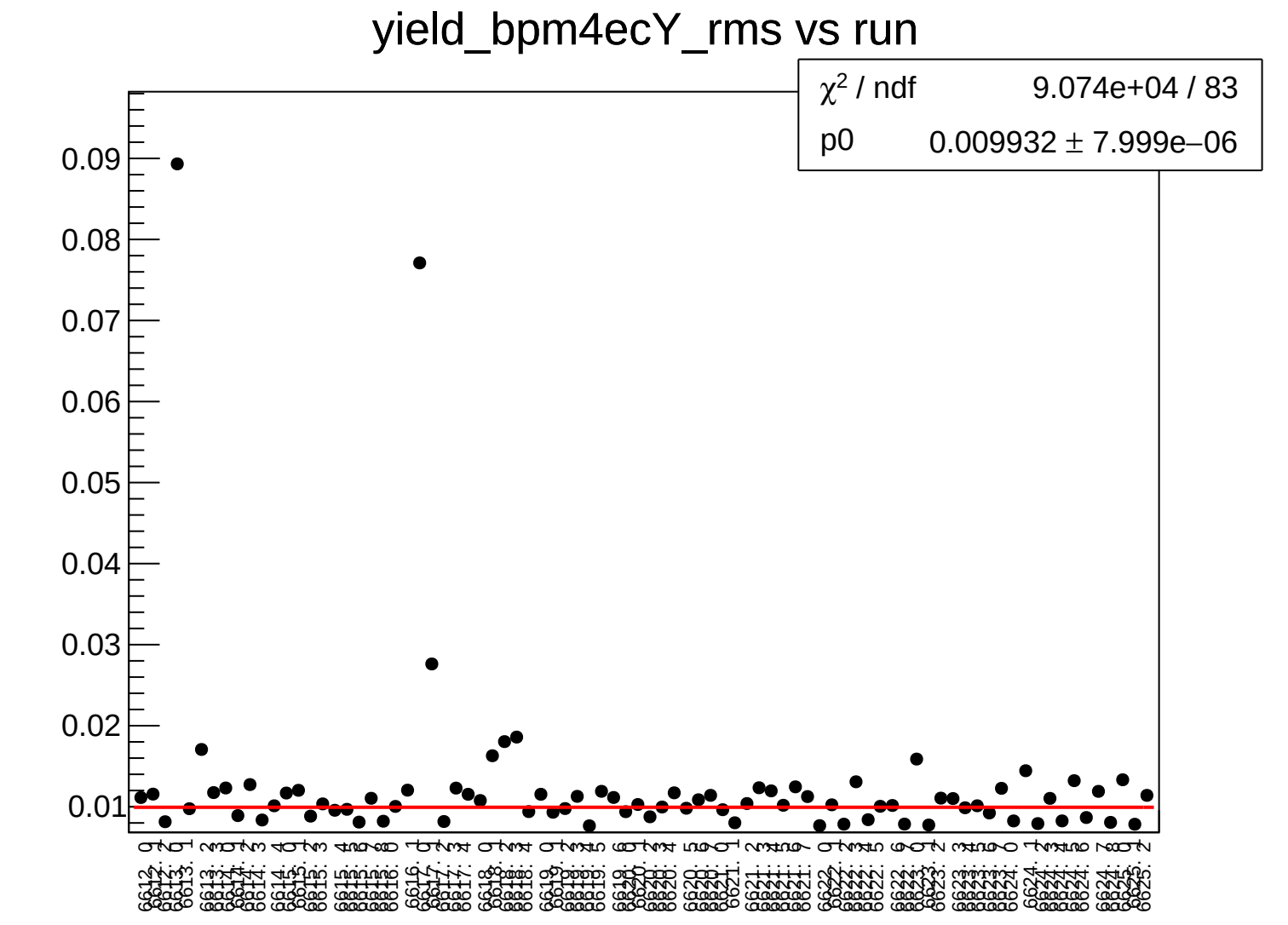

yield_bpm4acY_rms vs run
χ² / ndf 6.131e+04 / 83
p0 0.01109 ± 8.85e−06
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

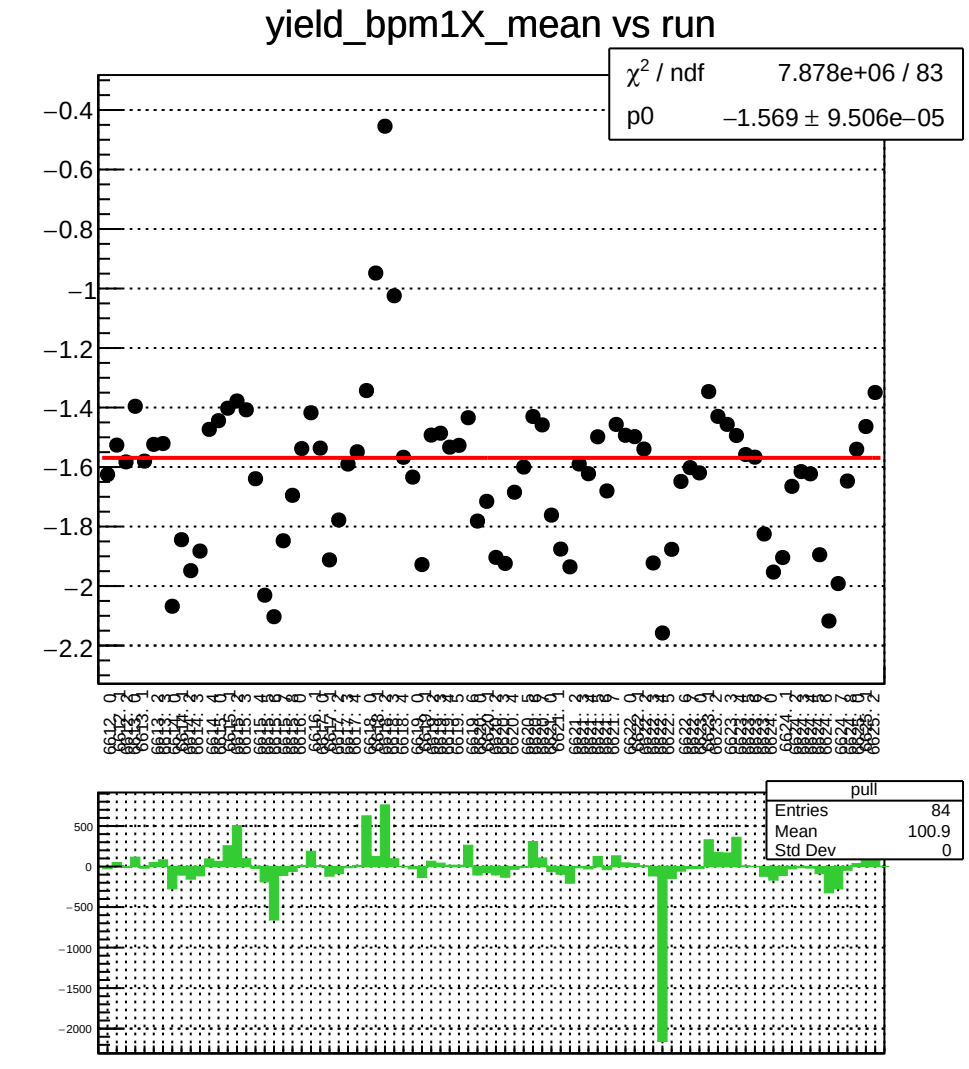

yield_bpm4ecX_mean vs run
χ² / ndf 2.964e+05 / 83
p0 −0.4512 ± 2.031e−05
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
pull
Entries 84
Mean 41.67
Std Dev 21.58
150
100
50
0
−50
−100
pull1D
Entries 84
Mean 0.5315
Std Dev 1.368
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

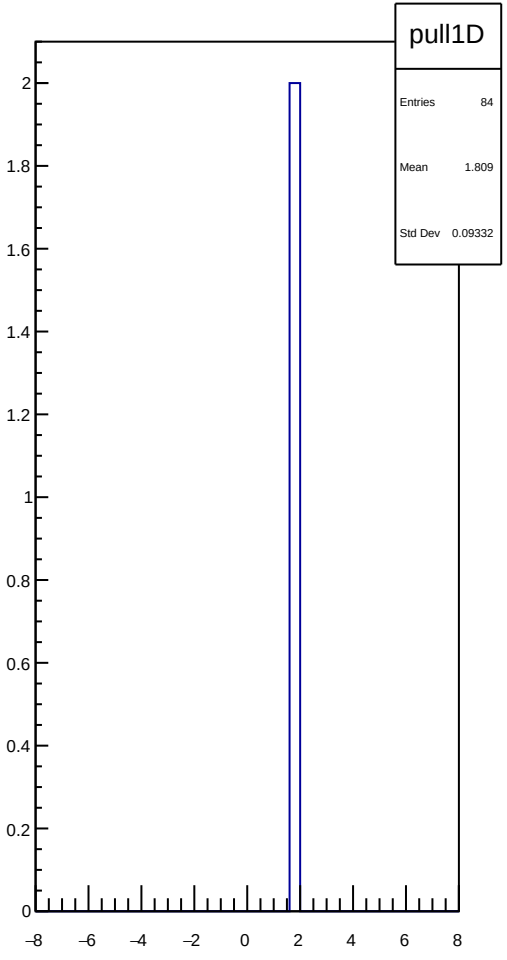

yield_bpm4ecX_rms vs run
χ² / ndf 4.543e+05 / 83
p0 0.01559 ± 1.436e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

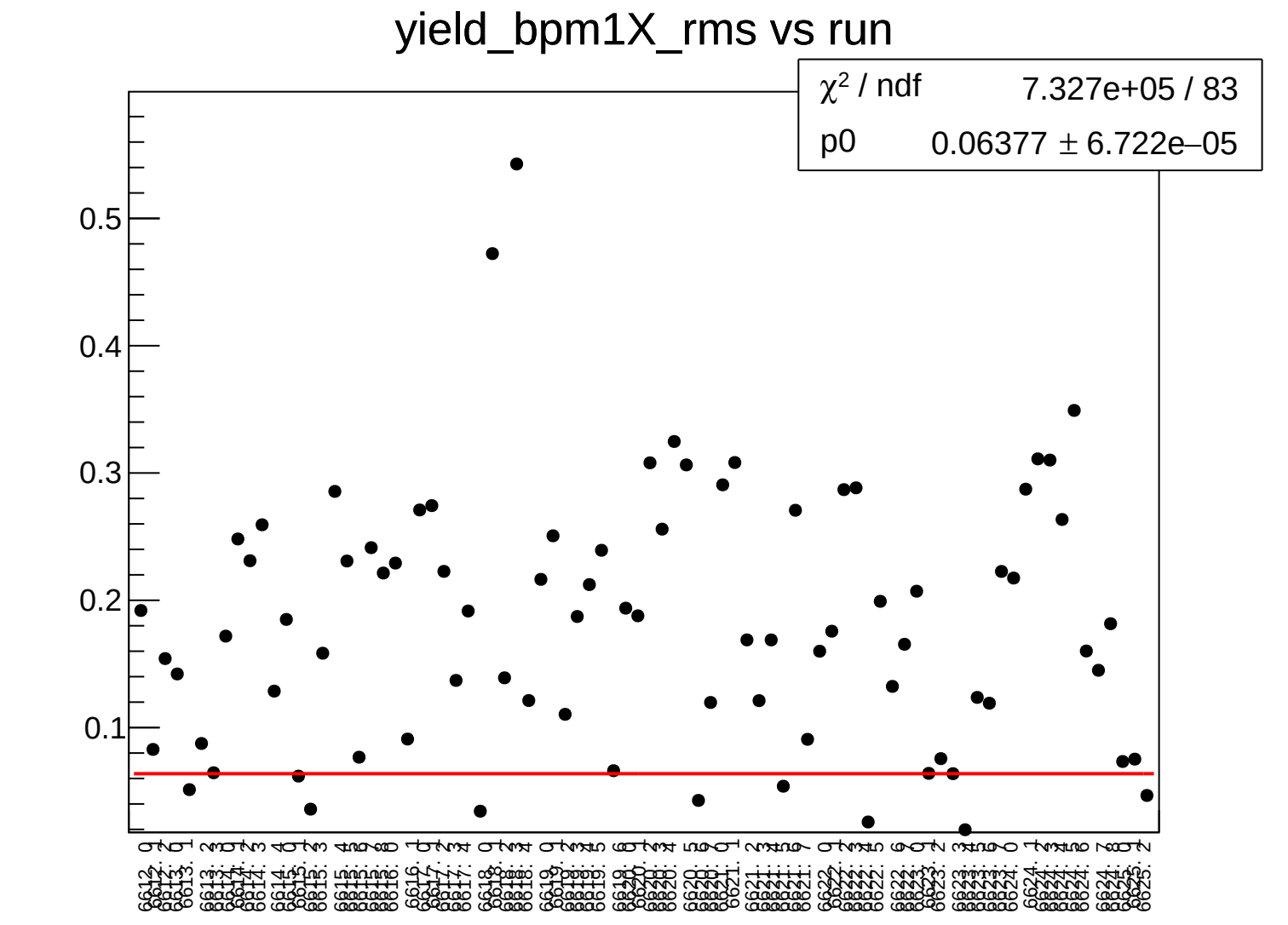

yield_bpm4ecY_mean vs run
χ² / ndf 1.942e+05 / 83
p0 0.02588 ± 1.131e−05
0.035
0.03
0.025
0.02
0.015
0.01
0.005
pull
Entries 84
Mean 5.668
Std Dev 0
100
50
0
−50
−100
−150
−200

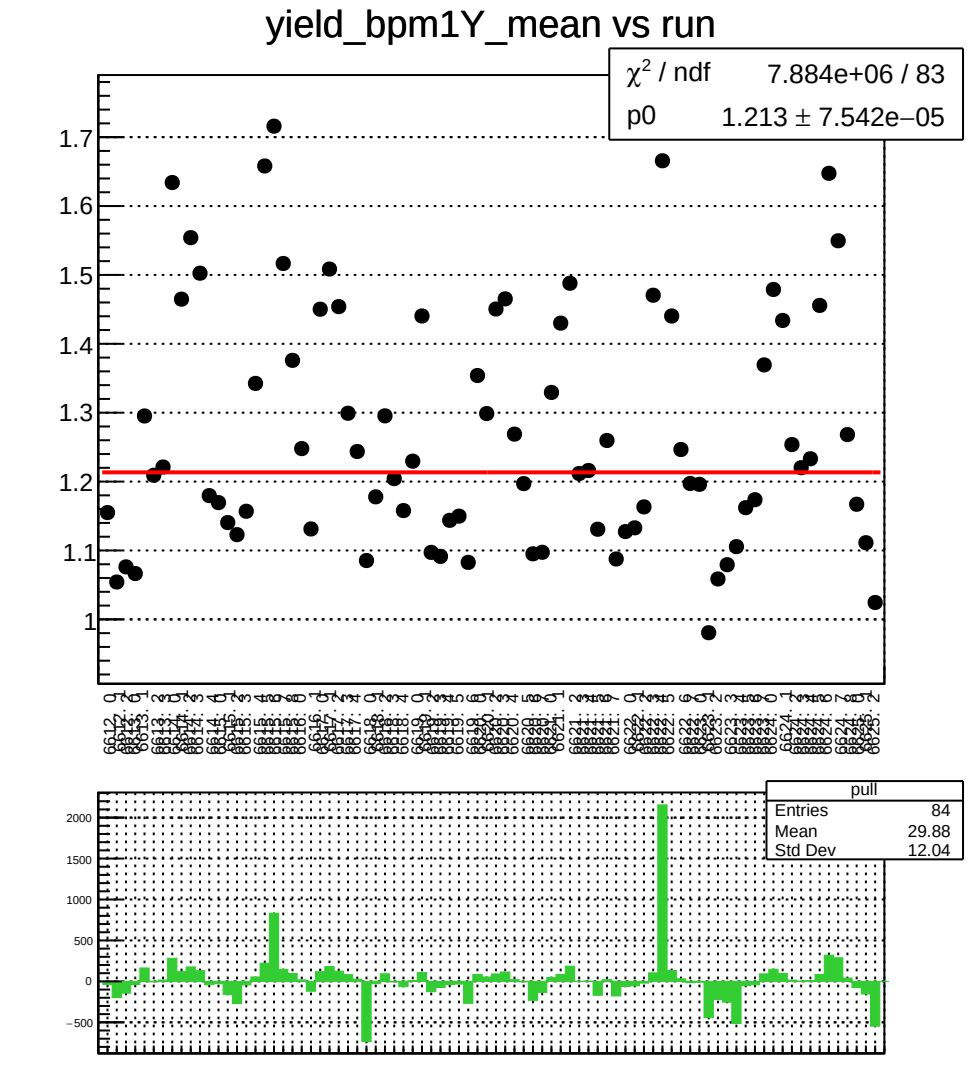

pull1D
Entries 84
Mean −0.8941
Std Dev 3.3
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

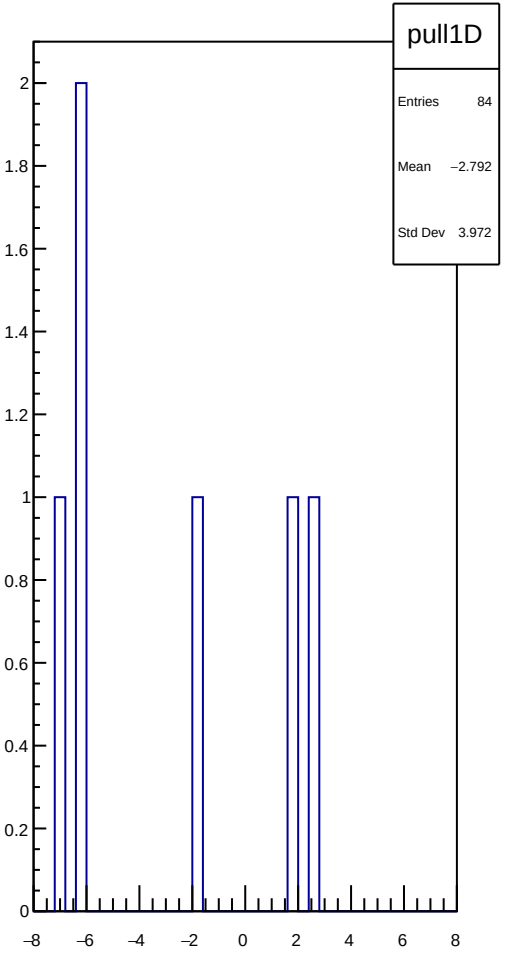

yield_bpm4ecY_rms vs run
χ² / ndf 9.074e+04 / 83
p0 0.009932 ± 7.999e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

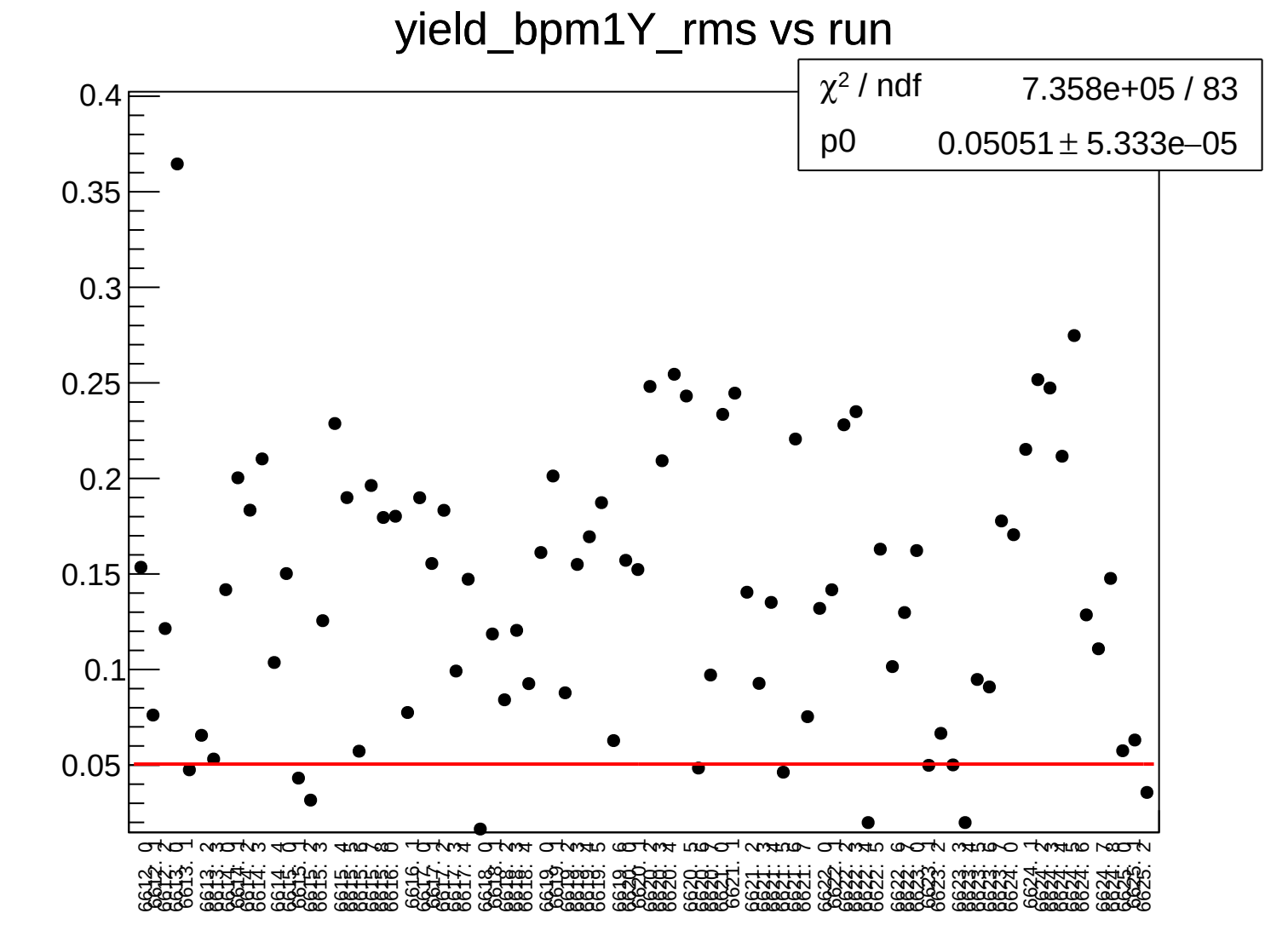

yield_bpm1X_mean vs run
χ² / ndf 7.878e+06 / 83
p0 −1.569 ± 9.506e−05
pull
Entries 84
Mean 100.9
Std Dev 0

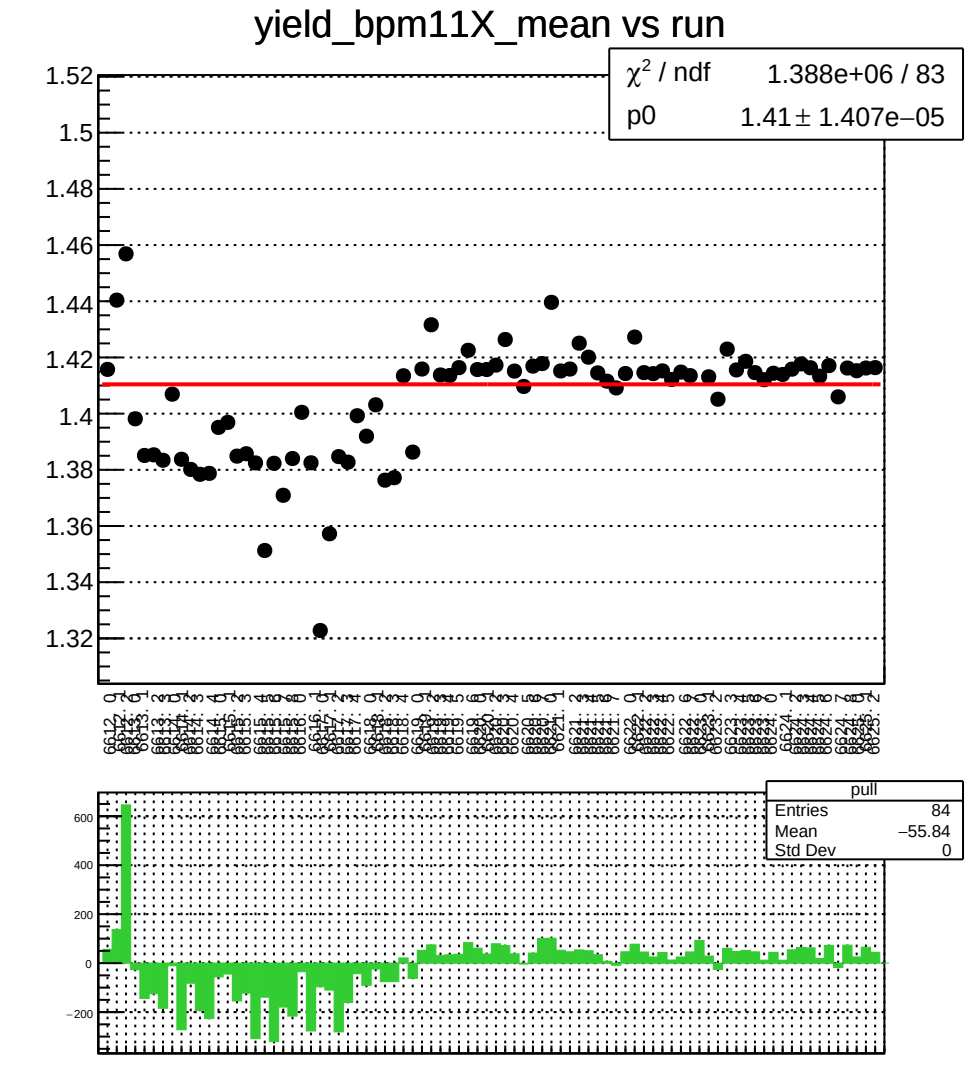

pull1D
Entries 84
Mean 1.809
Std Dev 0.09332

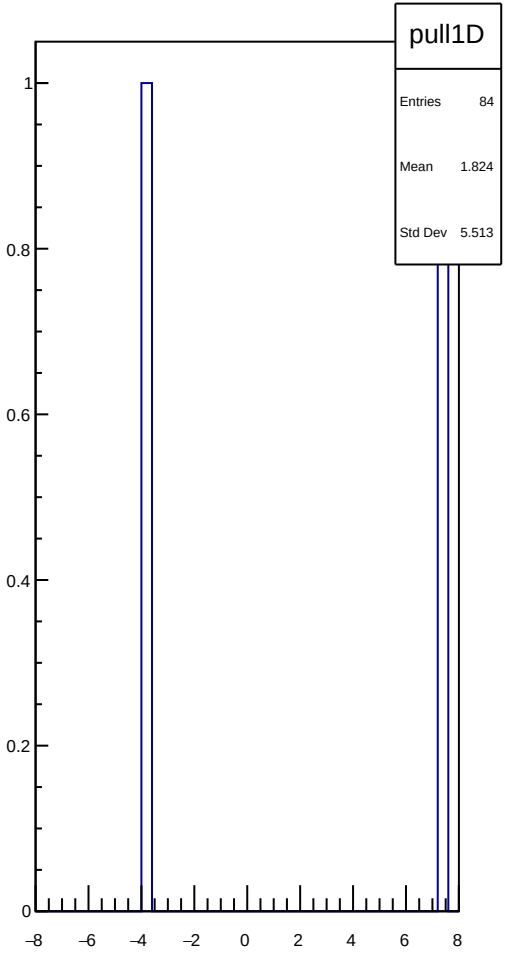

yield_bpm1X_rms vs run
χ² / ndf 7.327e+05 / 83
p0 0.06377 ± 6.722e–05
0.5
0.4
0.3
0.2
0.1

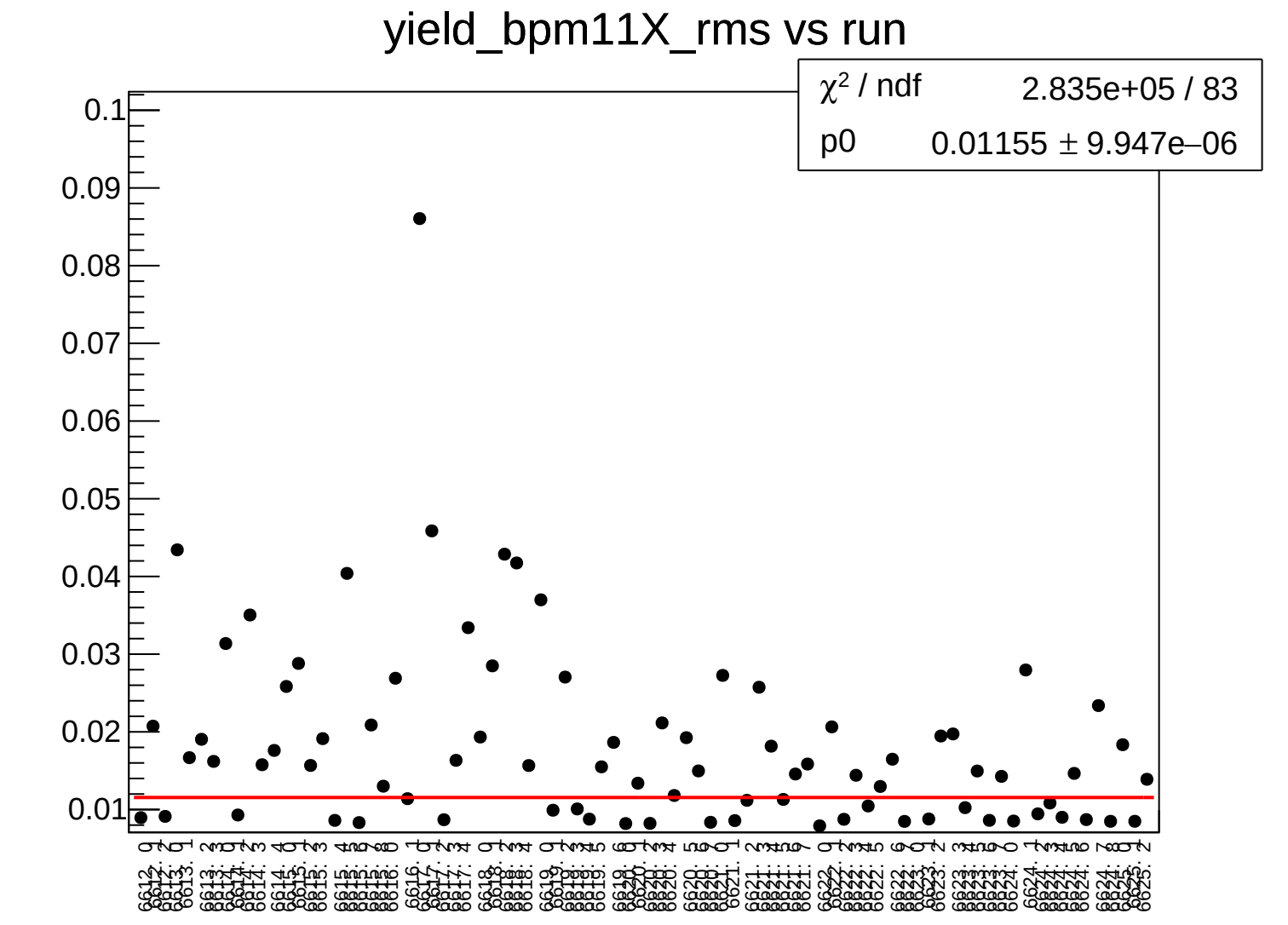

yield_bpm1Y_mean vs run
χ² / ndf 7.884e+06 / 83
p0 1.213 ± 7.542e−05
pull
Entries 84
Mean 29.88
Std Dev 12.04

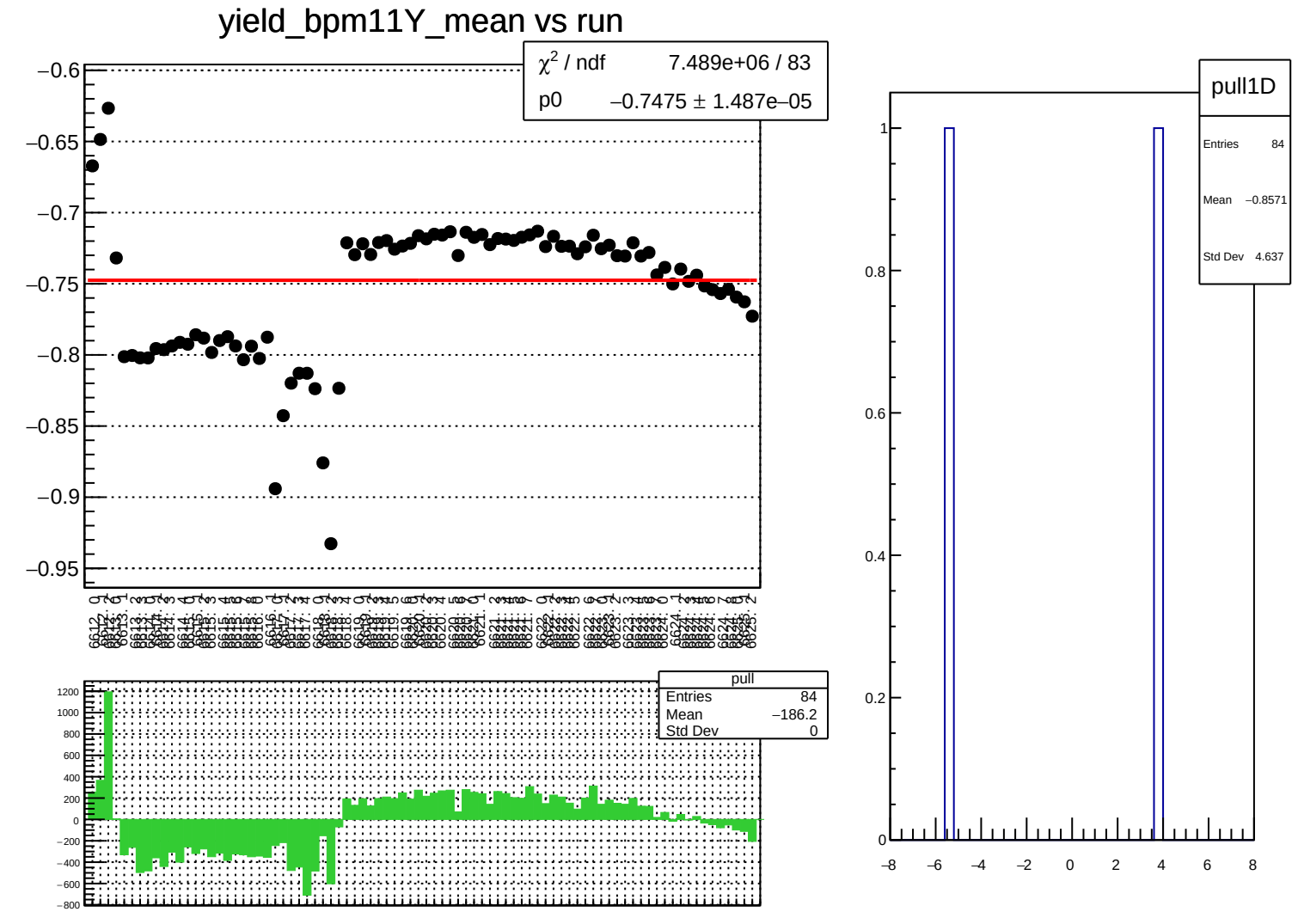

pull1D
Entries 84
Mean −2.792
Std Dev 3.972

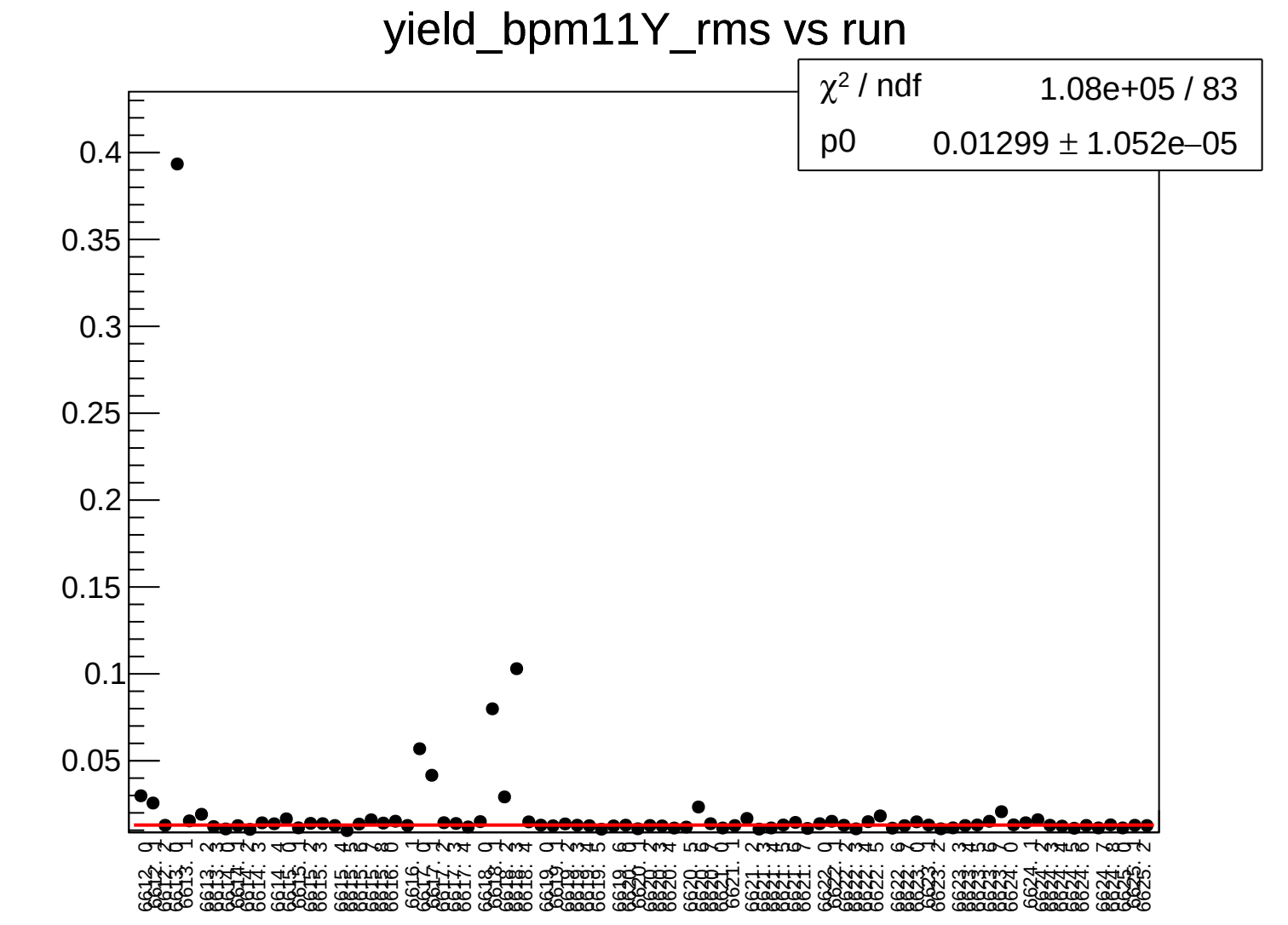

yield_bpm1Y_rms vs run
χ² / ndf 7.358e+05 / 83
p0 0.05051 ± 5.333e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

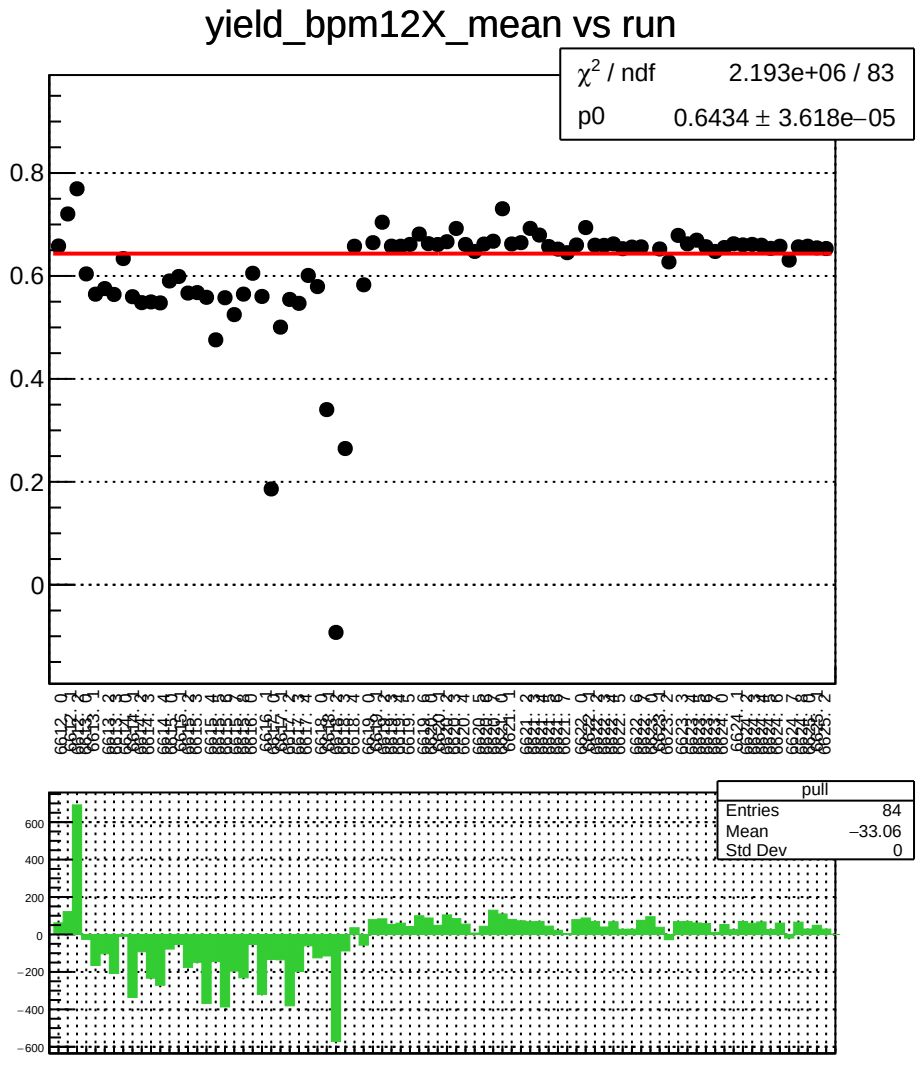

yield_bpm11X_mean vs run
χ² / ndf 1.388e+06 / 83
p0 1.41 ± 1.407e−05
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
1.34
1.32
pull
Entries 84
Mean −55.84
Std Dev 0
600
400
200
0
−200

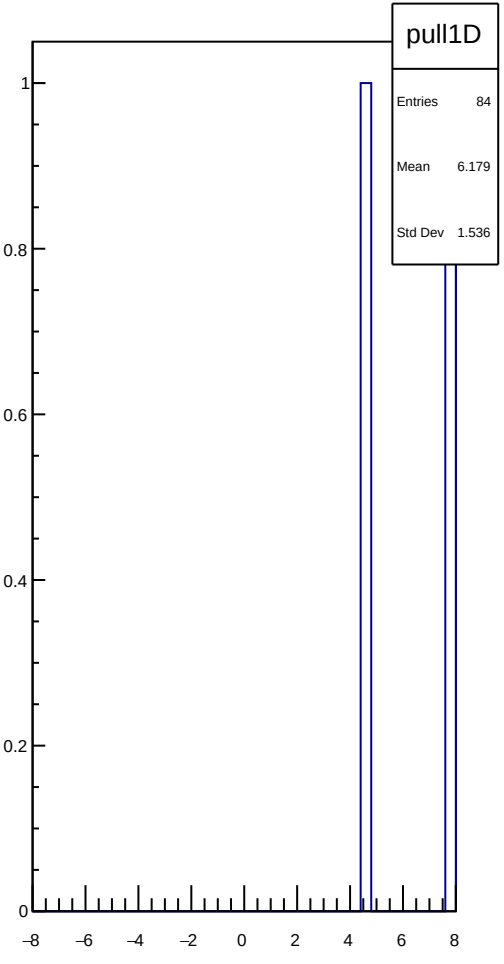

pull1D
Entries 84
Mean 1.824
Std Dev 5.513
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm11X_rms vs run
χ² / ndf 2.835e+05 / 83
p0 0.01155 ± 9.947e–06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

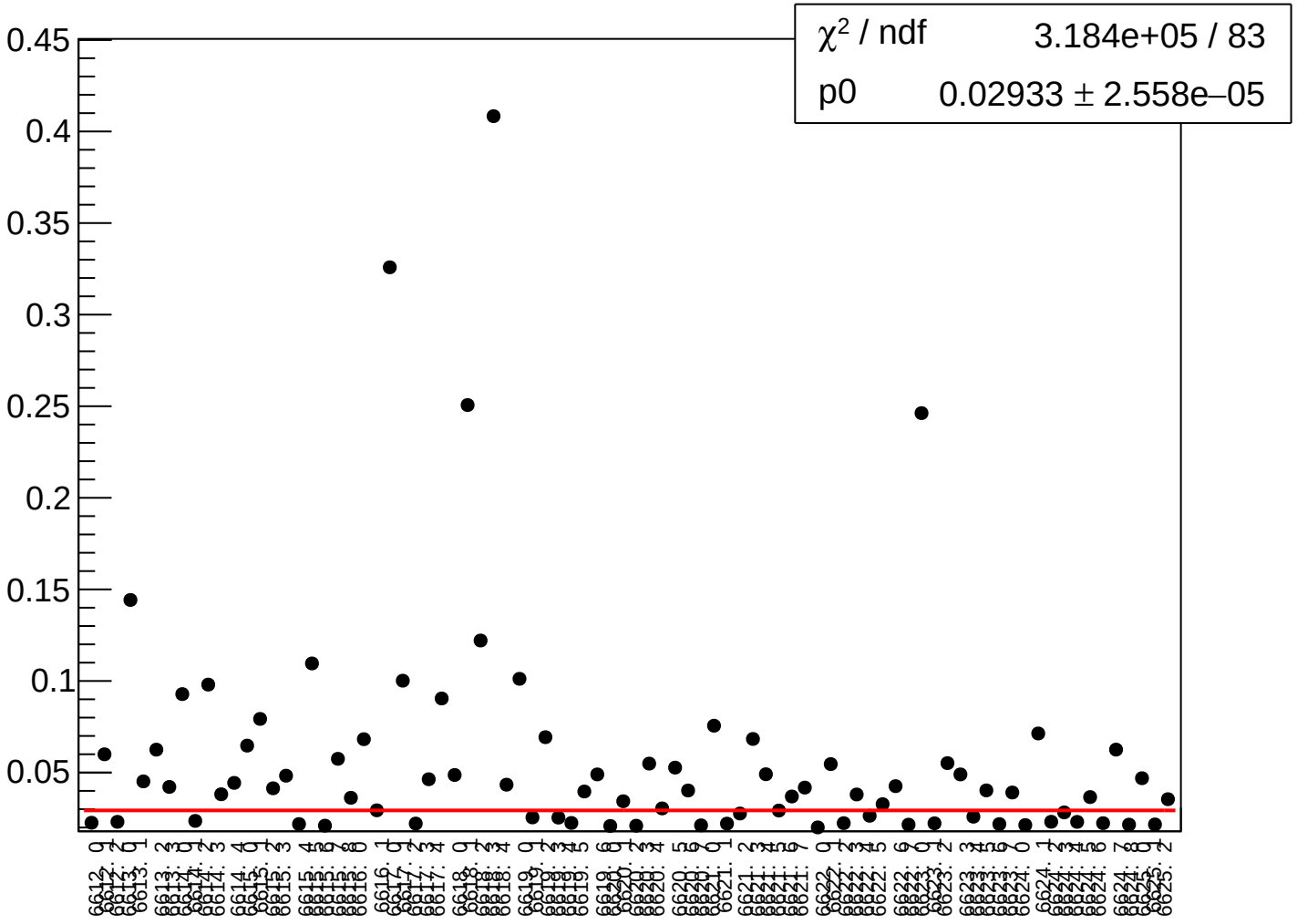

yield_bpm11Y_mean vs run
χ² / ndf 7.489e+06 / 83
p0 −0.7475 ± 1.487e−05
pull
Entries 84
Mean −186.2
Std Dev 0
pull1D
Entries 84
Mean −0.8571
Std Dev 4.637

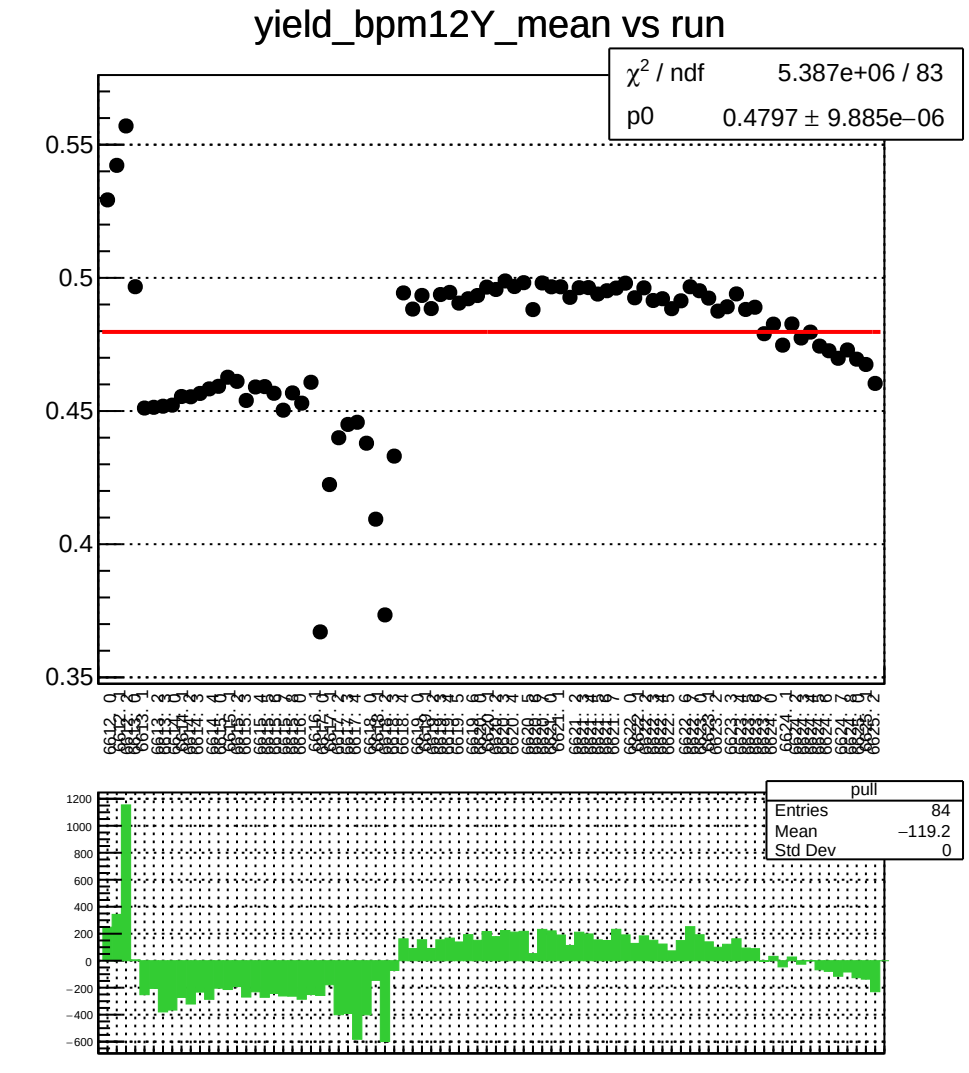

yield_bpm11Y_rms vs run
χ² / ndf 1.08e+05 / 83
p0 0.01299 ± 1.052e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

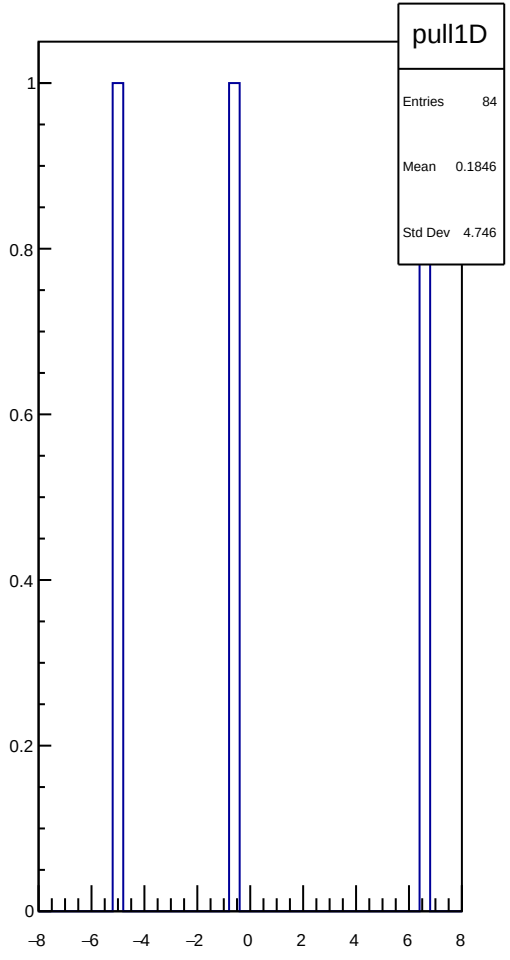

yield_bpm12X_mean vs run
χ² / ndf 2.193e+06 / 83
p0 0.6434 ± 3.618e−05
0.8
0.6
0.4
0.2
0
pull
Entries 84
Mean −33.06
Std Dev 0
600
400
200
0
−200
−400
−600

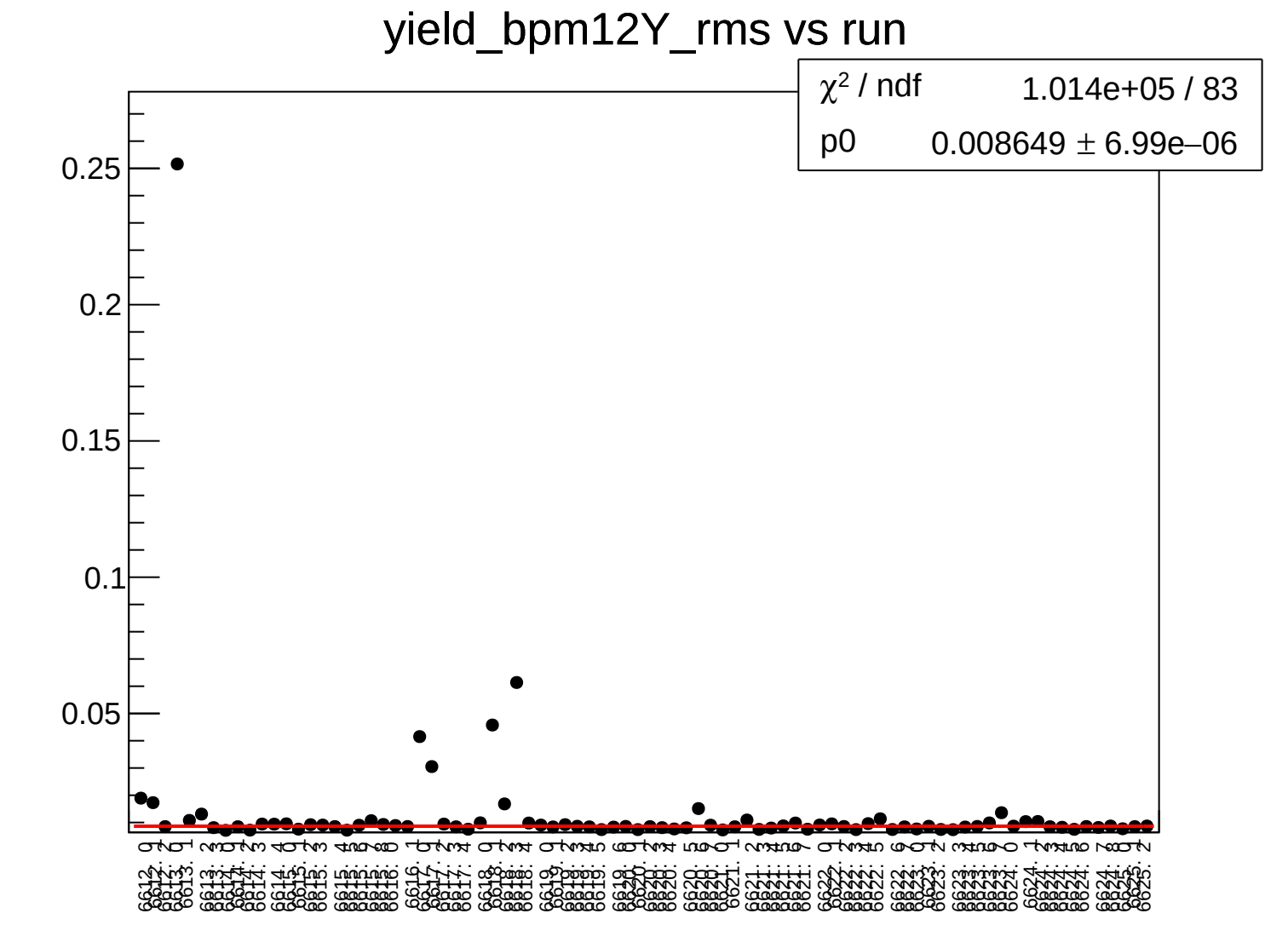

pull1D
Entries 84
Mean 6.179
Std Dev 1.536
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

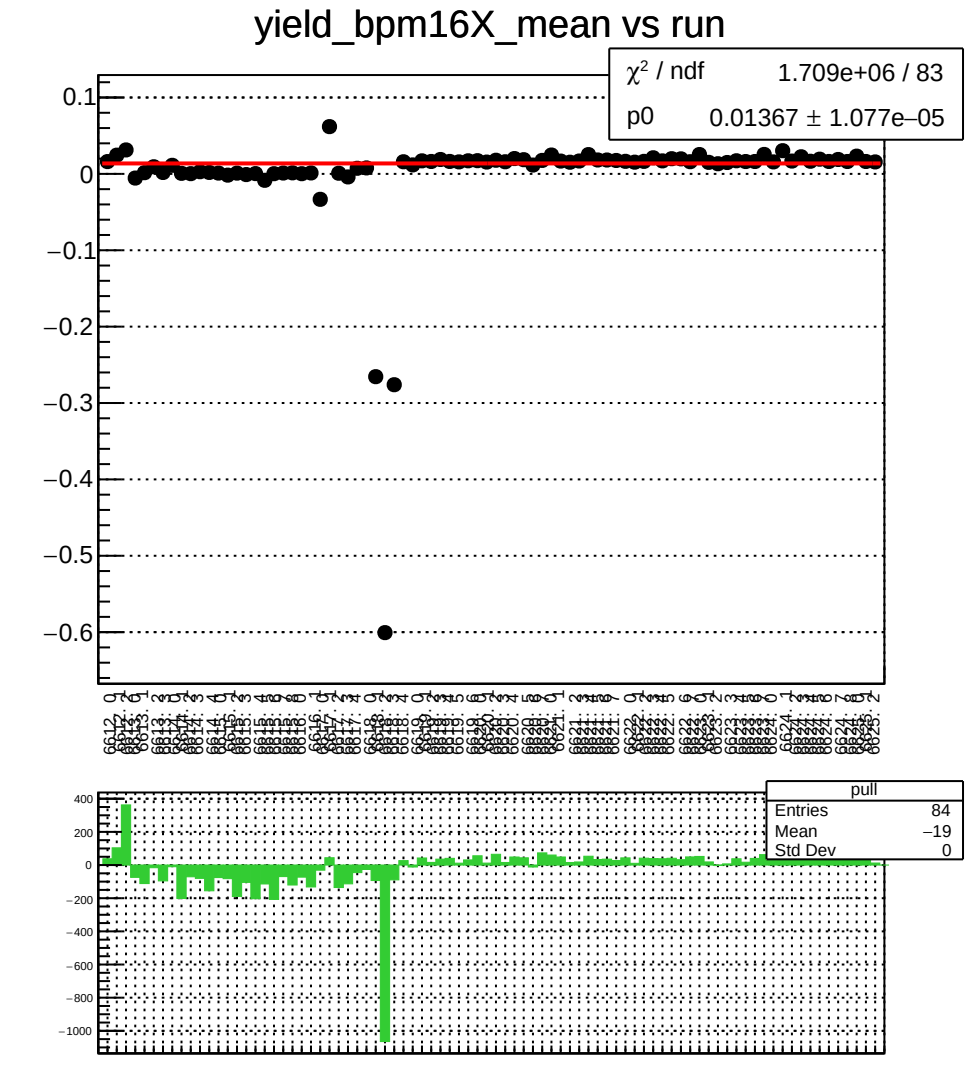
yield_bpm12X_rms vs run

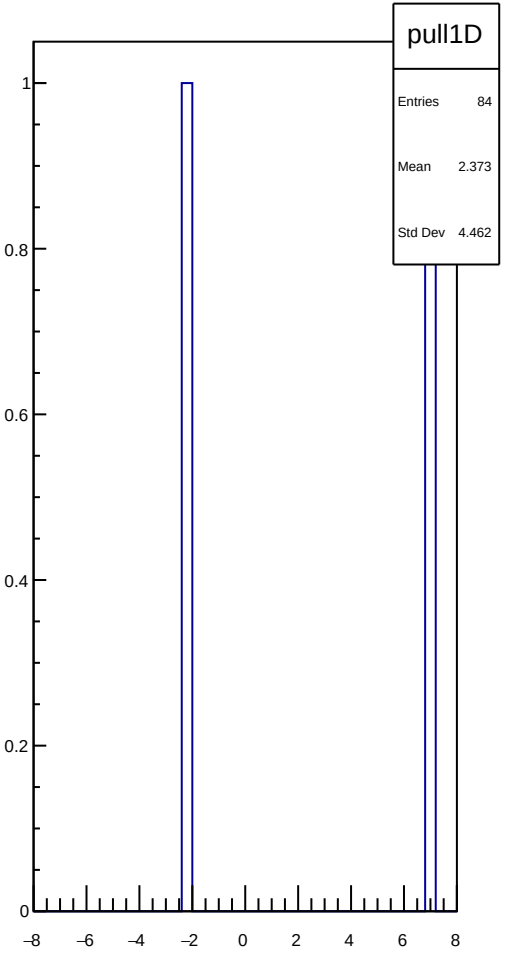


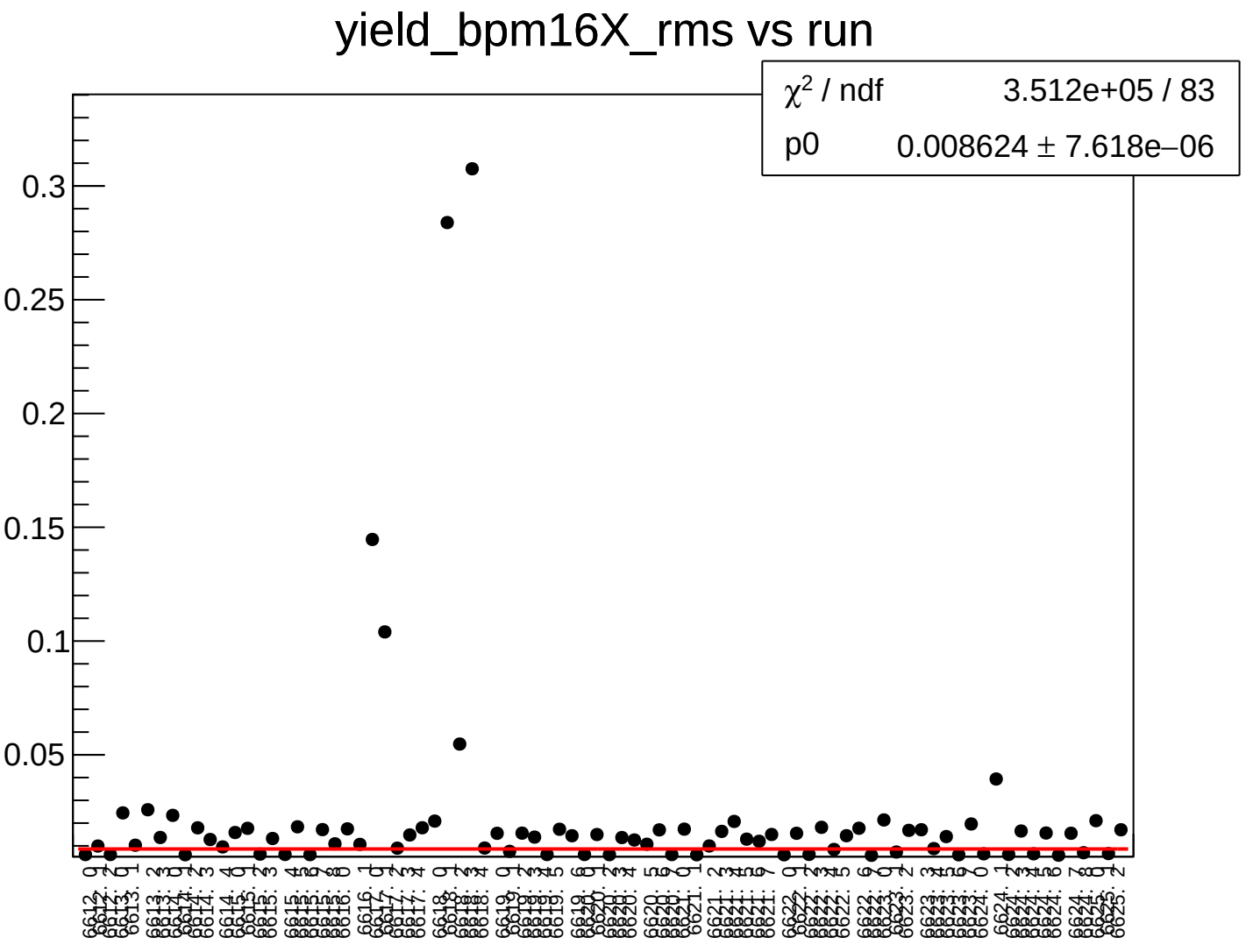

yield_bpm12Y_mean vs run
χ² / ndf 5.387e+06 / 83
p0 0.4797 ± 9.885e−06
0.55
0.5
0.45
0.4
0.35
pull
Entries 84
Mean −119.2
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

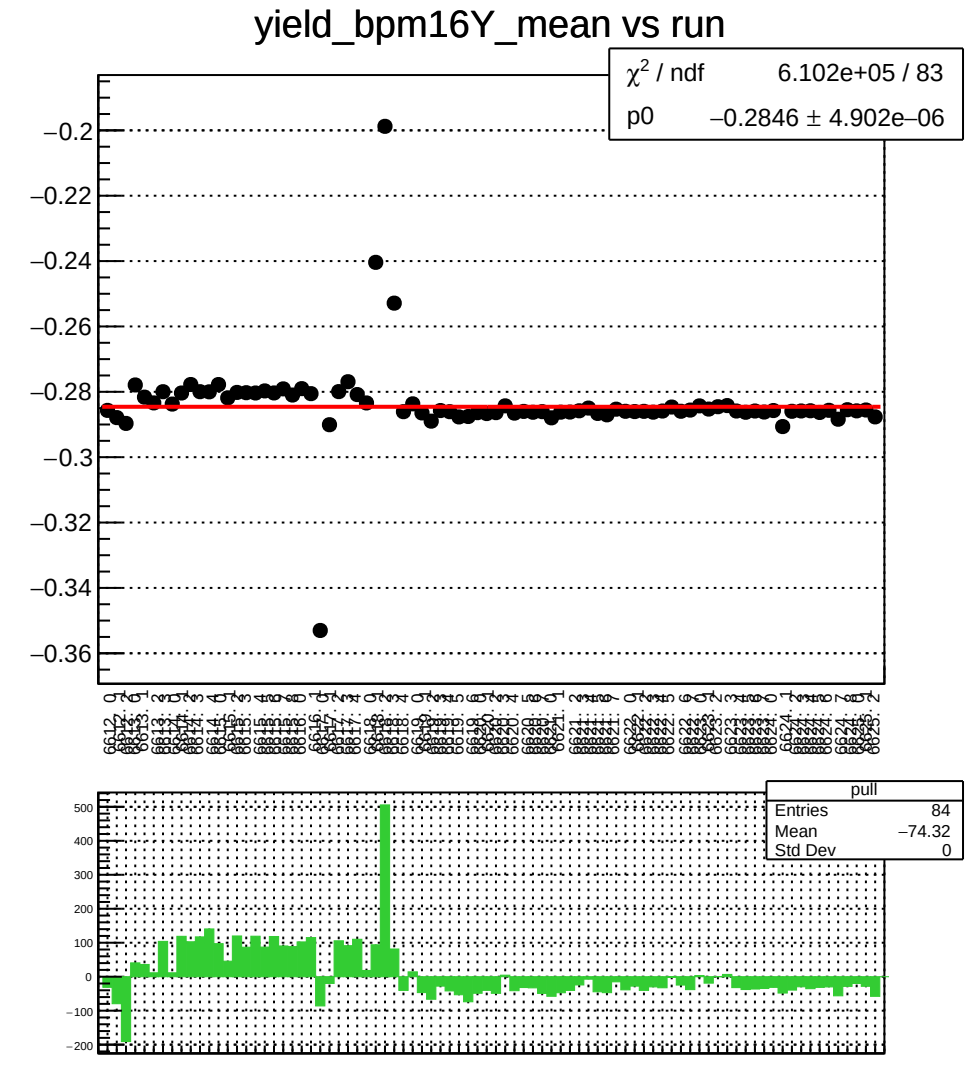

pull1D
Entries 84
Mean 0.1846
Std Dev 4.746
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

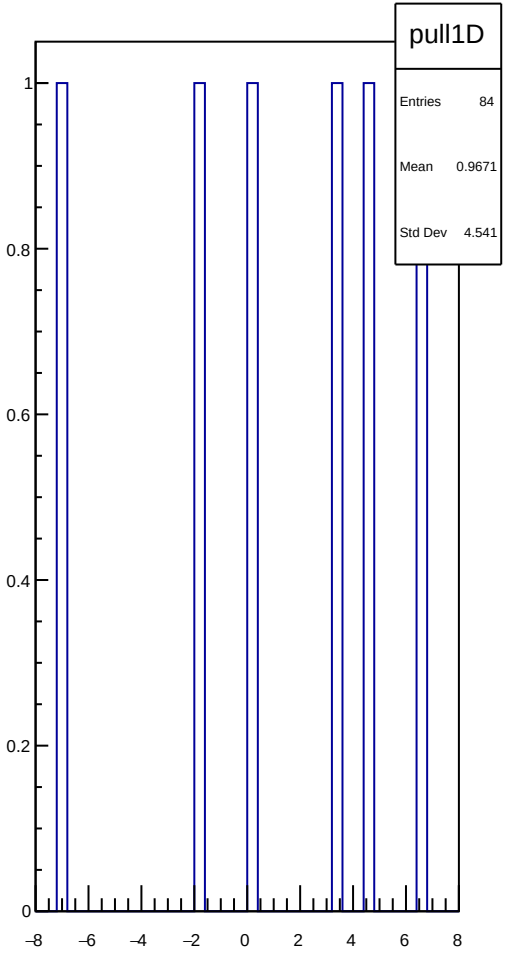

yield_bpm12Y_rms vs run
χ² / ndf 1.014e+05 / 83
p0 0.008649 ± 6.99e–06
0.25
0.2
0.15
0.1
0.05

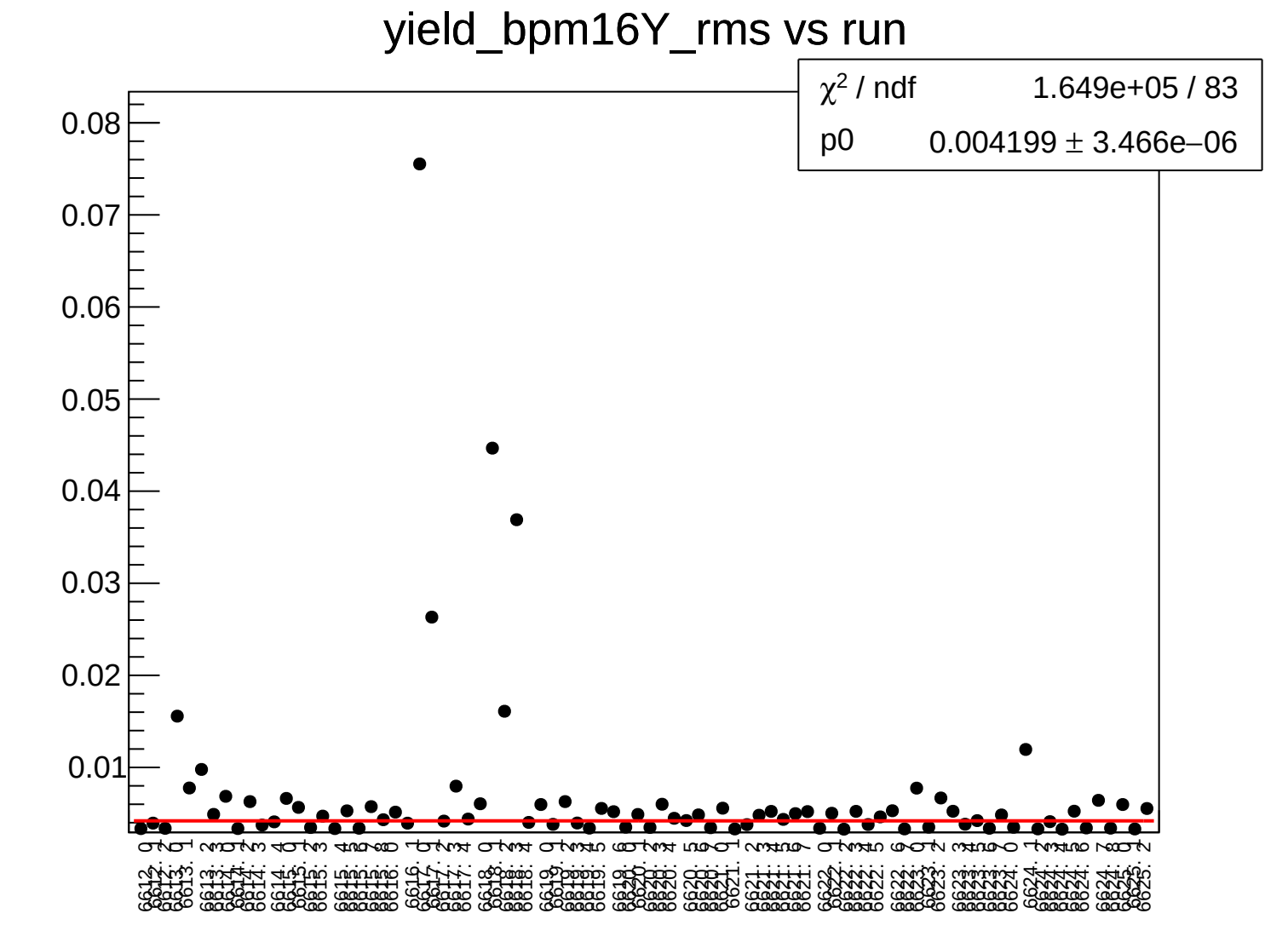

yield_bpm16X_mean vs run
χ² / ndf 1.709e+06 / 83
p0 0.01367 ± 1.077e−05
pull
Entries 84
Mean −19
Std Dev 0

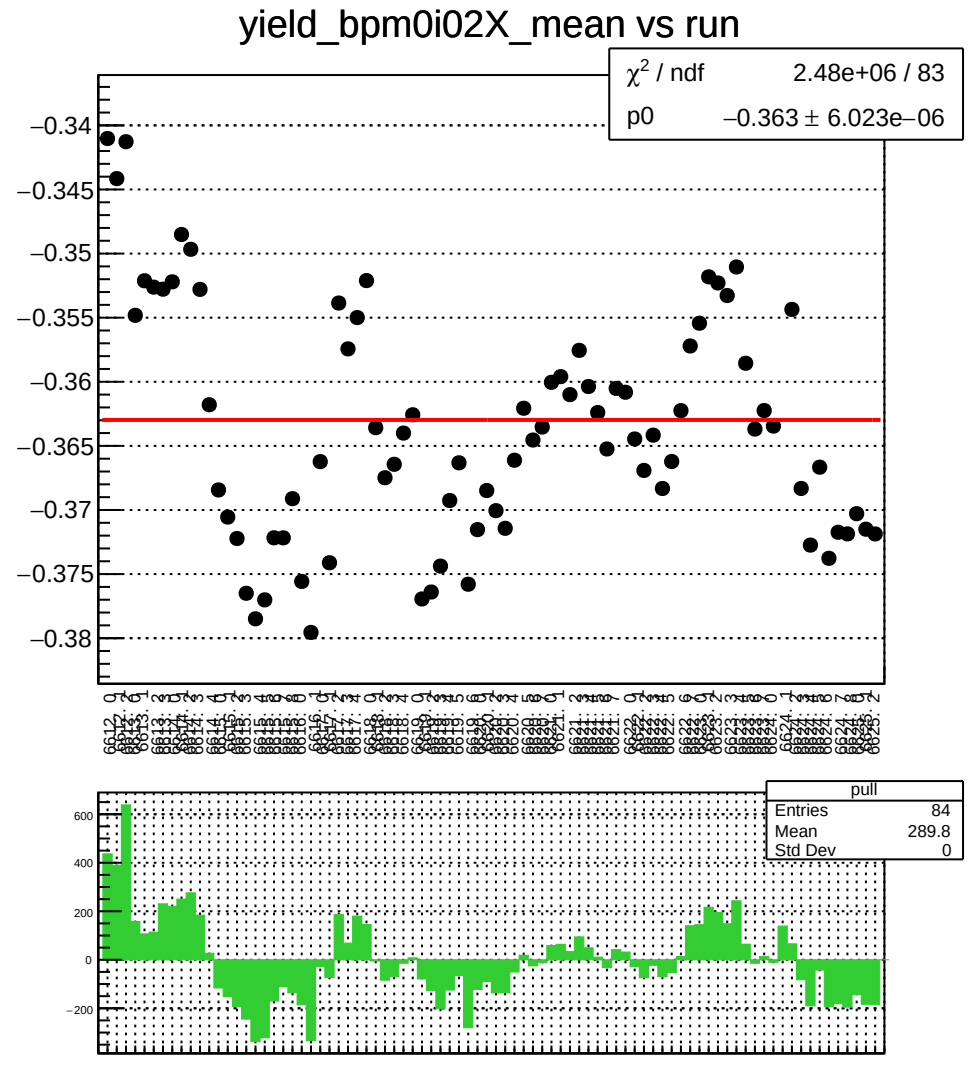

pull1D
Entries 84
Mean 2.373
Std Dev 4.462

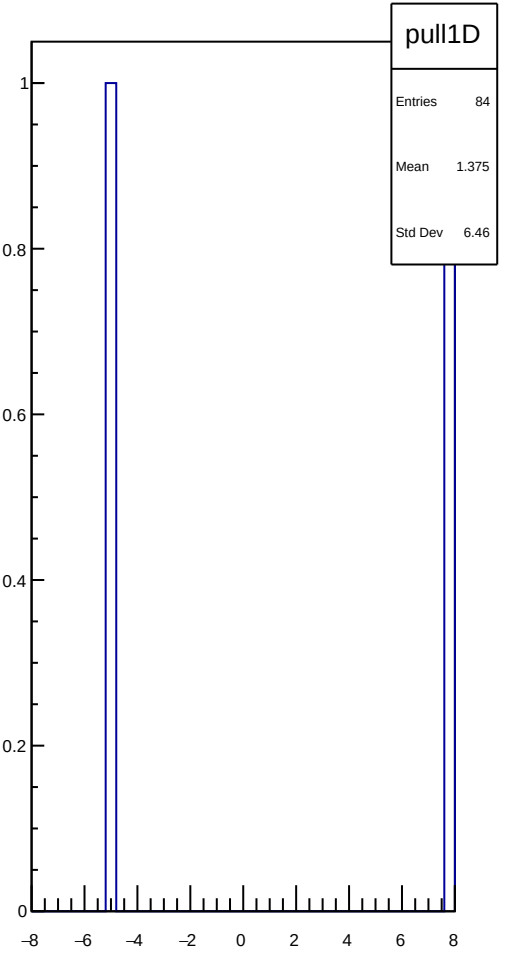

yield_bpm16X_rms vs run
χ² / ndf 3.512e+05 / 83
p0 0.008624 ± 7.618e−06
0.3
0.25
0.2
0.15
0.1
0.05

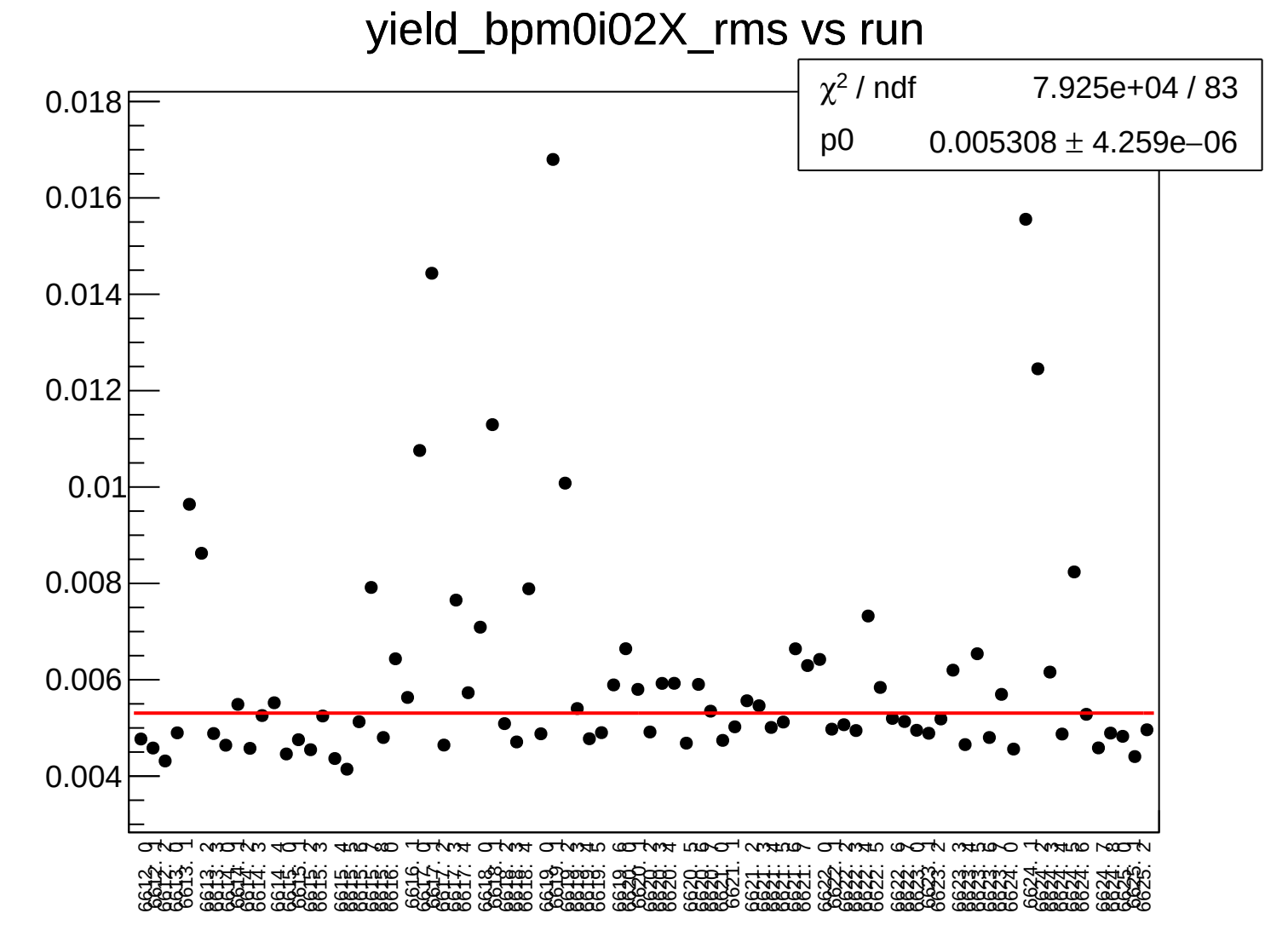

yield_bpm16Y_mean vs run
χ² / ndf 6.102e+05 / 83
p0 −0.2846 ± 4.902e−06
pull
Entries 84
Mean −74.32
Std Dev 0

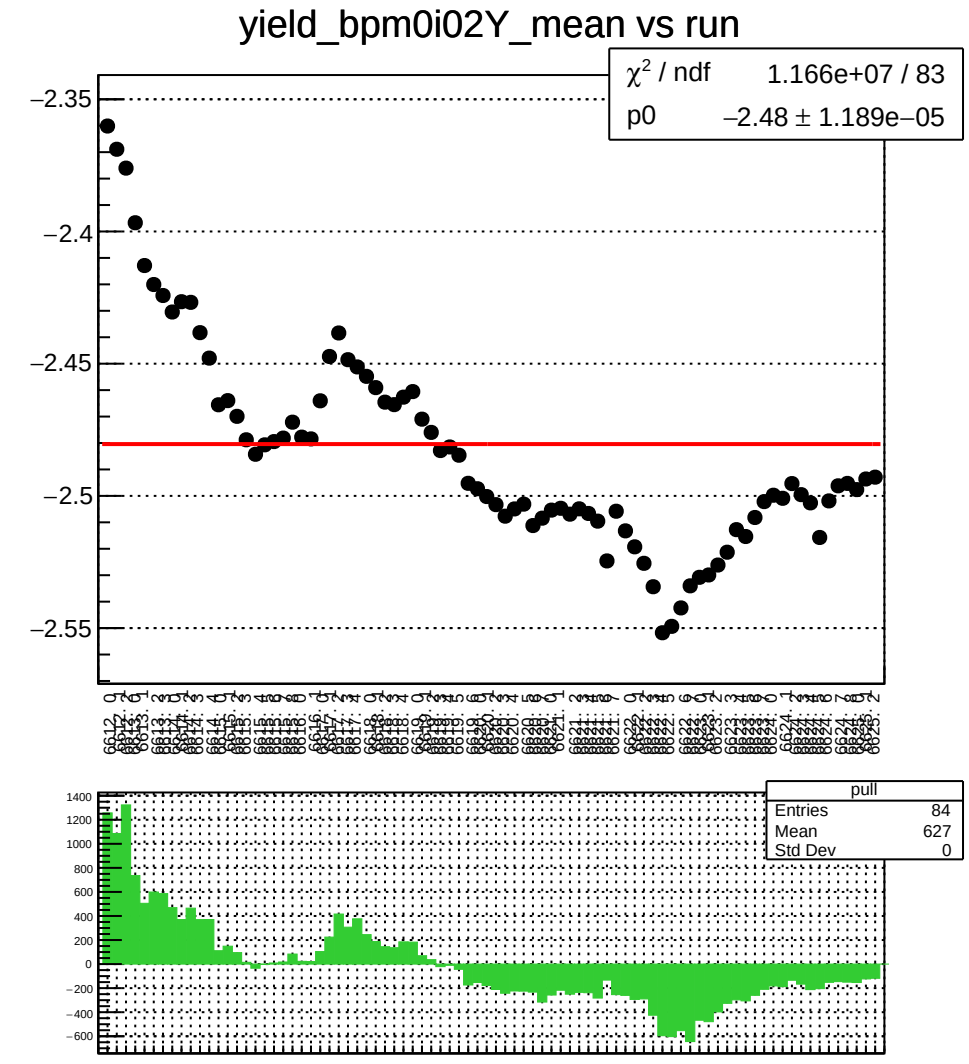

pull1D
Entries 84
Mean 0.9671
Std Dev 4.541

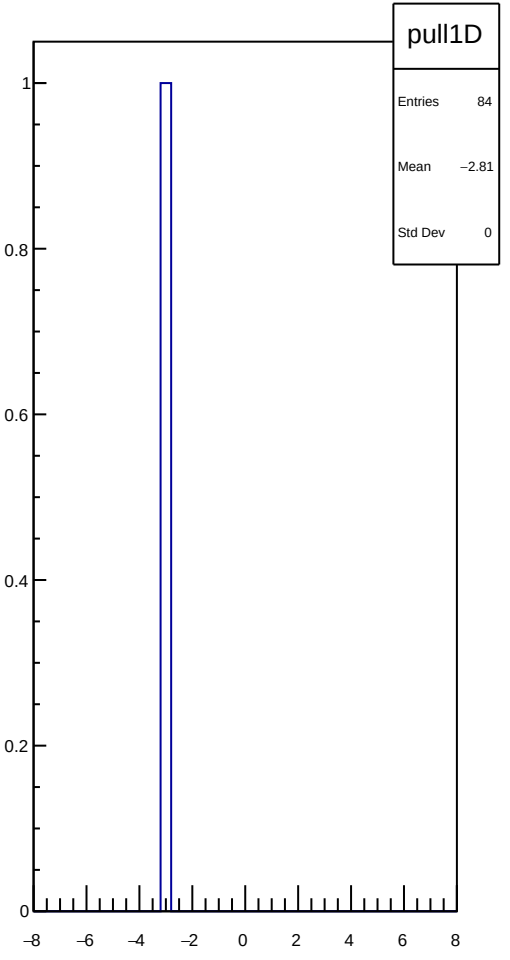

yield_bpm16Y_rms vs run
χ² / ndf 1.649e+05 / 83
p0 0.004199 ± 3.466e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

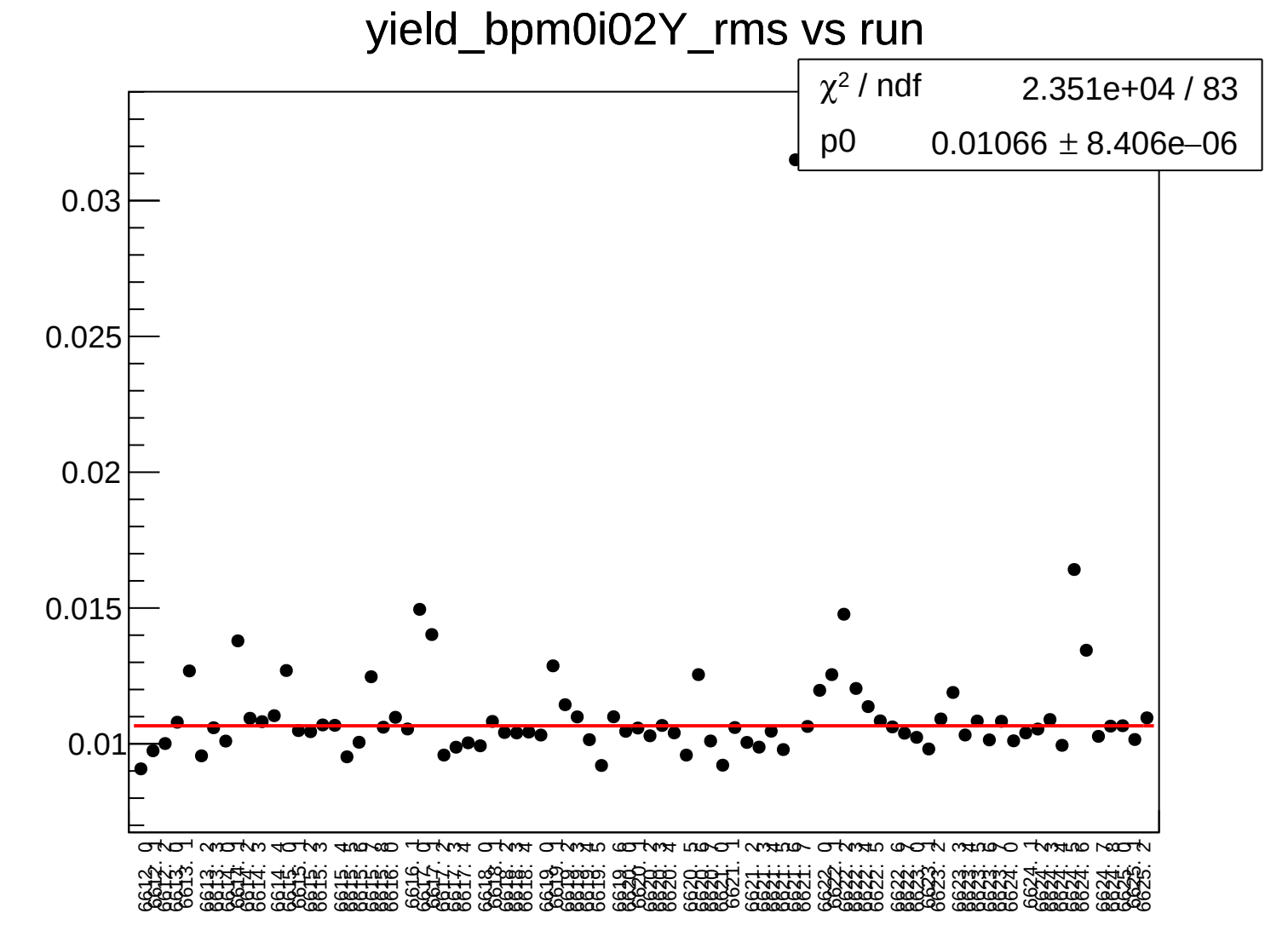

yield_bpm0i02X_mean vs run
χ² / ndf 2.48e+06 / 83
p0 −0.363 ± 6.023e−06
−0.34
−0.345
−0.35
−0.355
−0.36
−0.365
−0.37
−0.375
−0.38
pull
Entries 84
Mean 289.8
Std Dev 0
600
400
200
0
−200

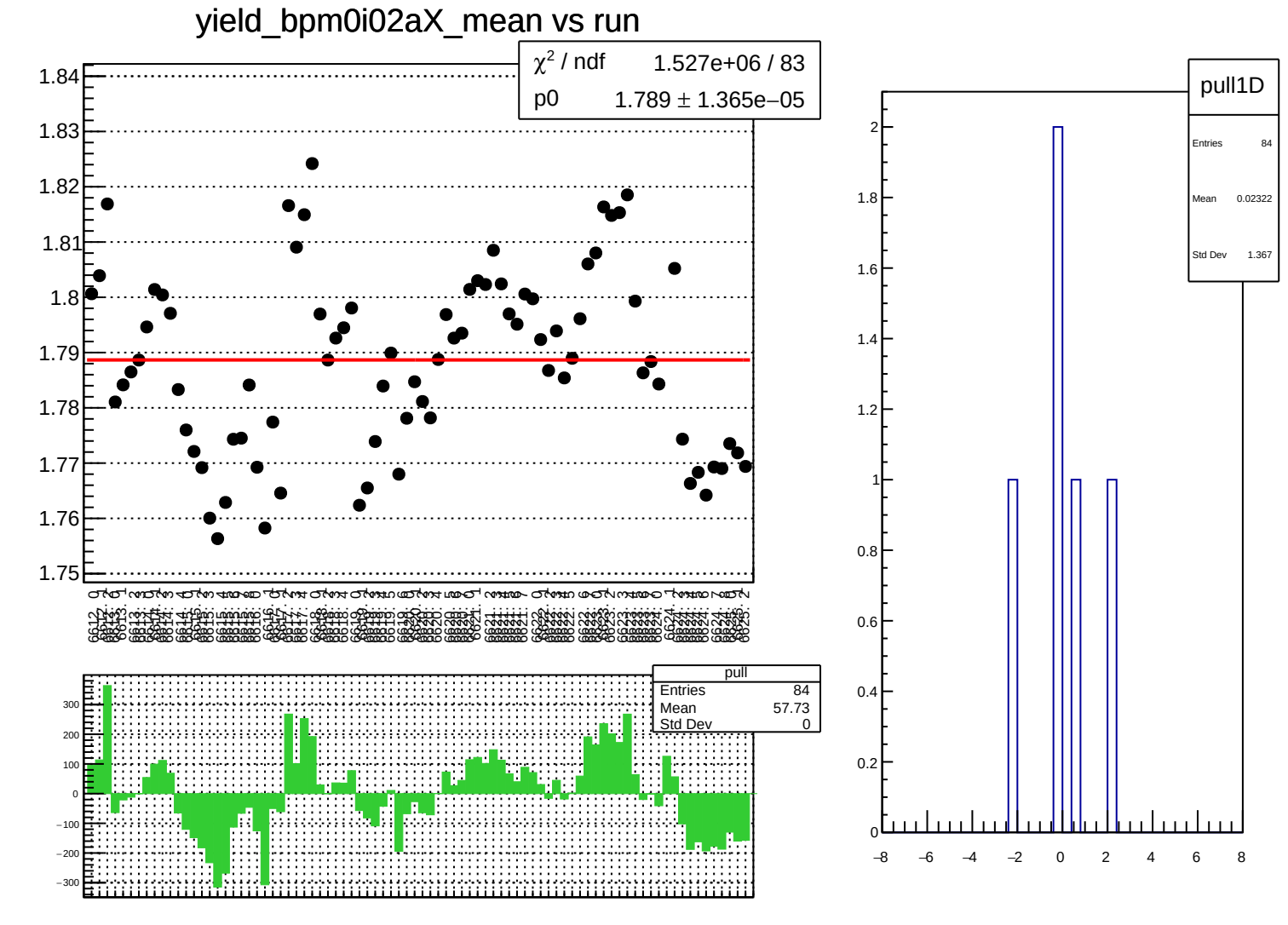

pull1D
Entries 84
Mean 1.375
Std Dev 6.46
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i02X_rms vs run
χ² / ndf 7.925e+04 / 83
p0 0.005308 ± 4.259e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

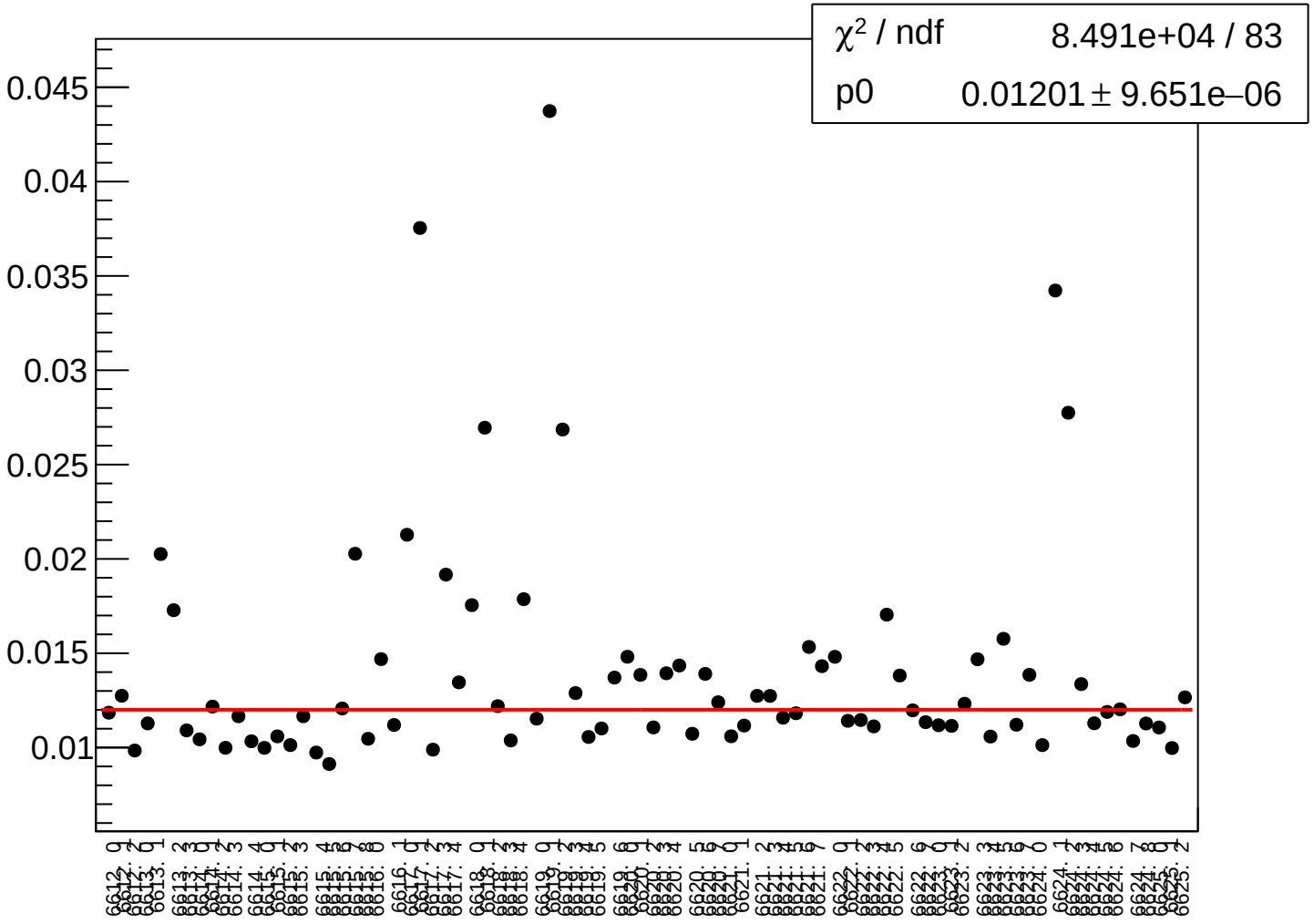

yield_bpm0i02Y_mean vs run
χ² / ndf 1.166e+07 / 83
p0 −2.48 ± 1.189e−05
−2.35
−2.4
−2.45
−2.5
−2.55
pull
Entries 84
Mean 627
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600

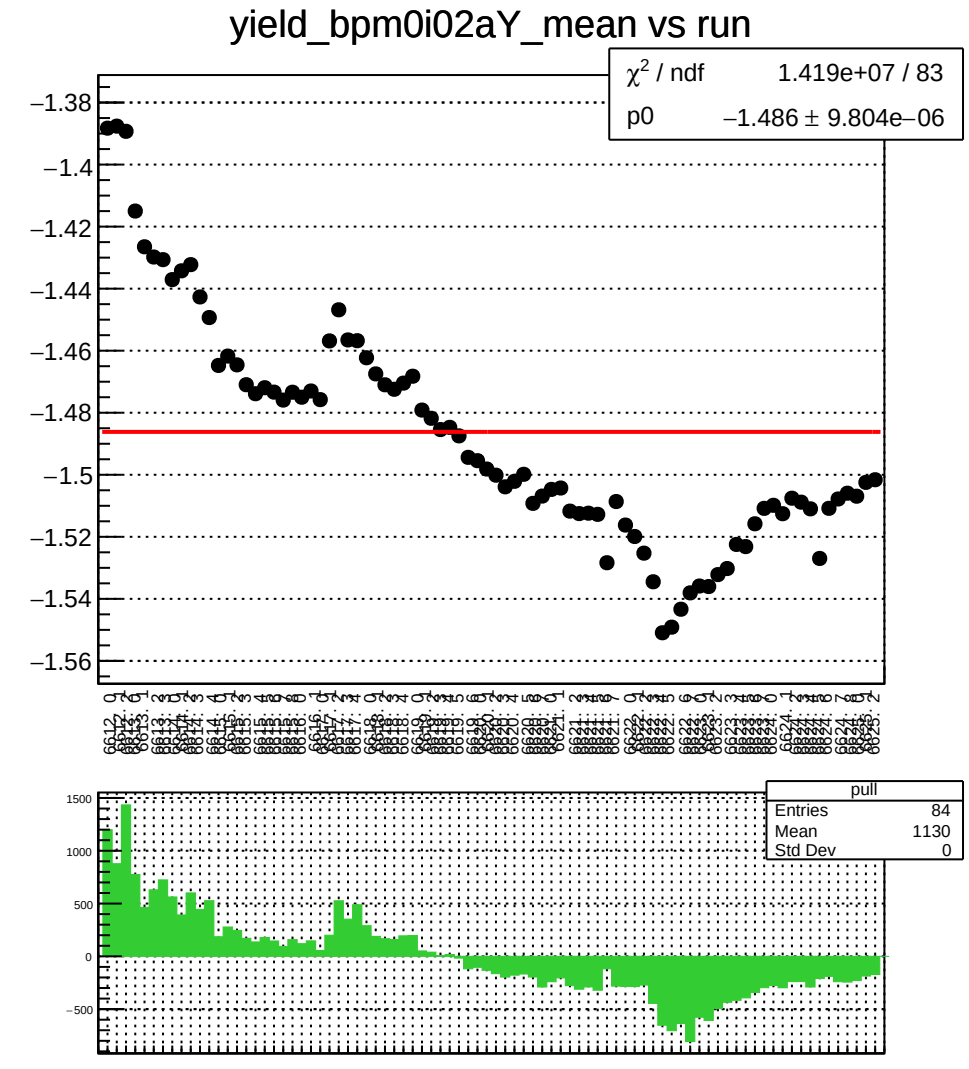

pull1D
Entries 84
Mean −2.81
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

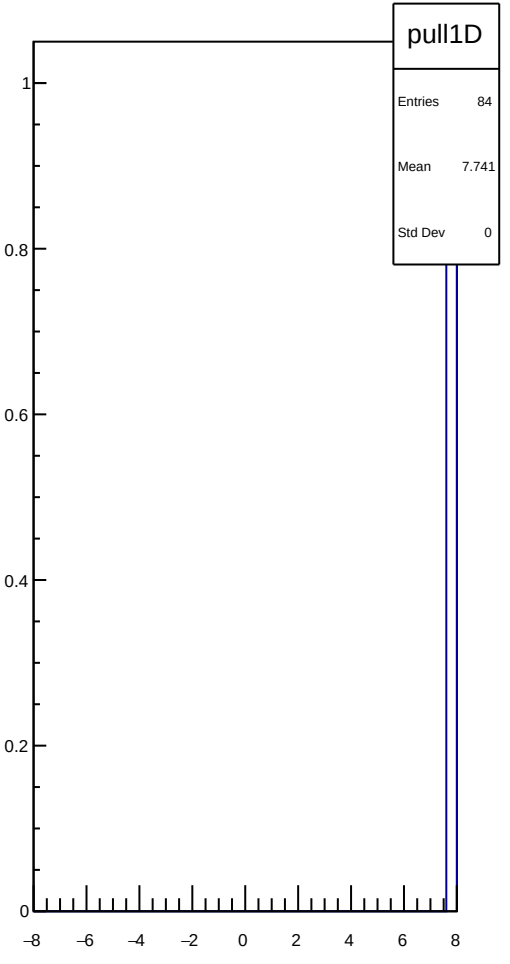

yield_bpm0i02Y_rms vs run
χ² / ndf 2.351e+04 / 83
p0 0.01066 ± 8.406e−06
0.03
0.025
0.02
0.015
0.01

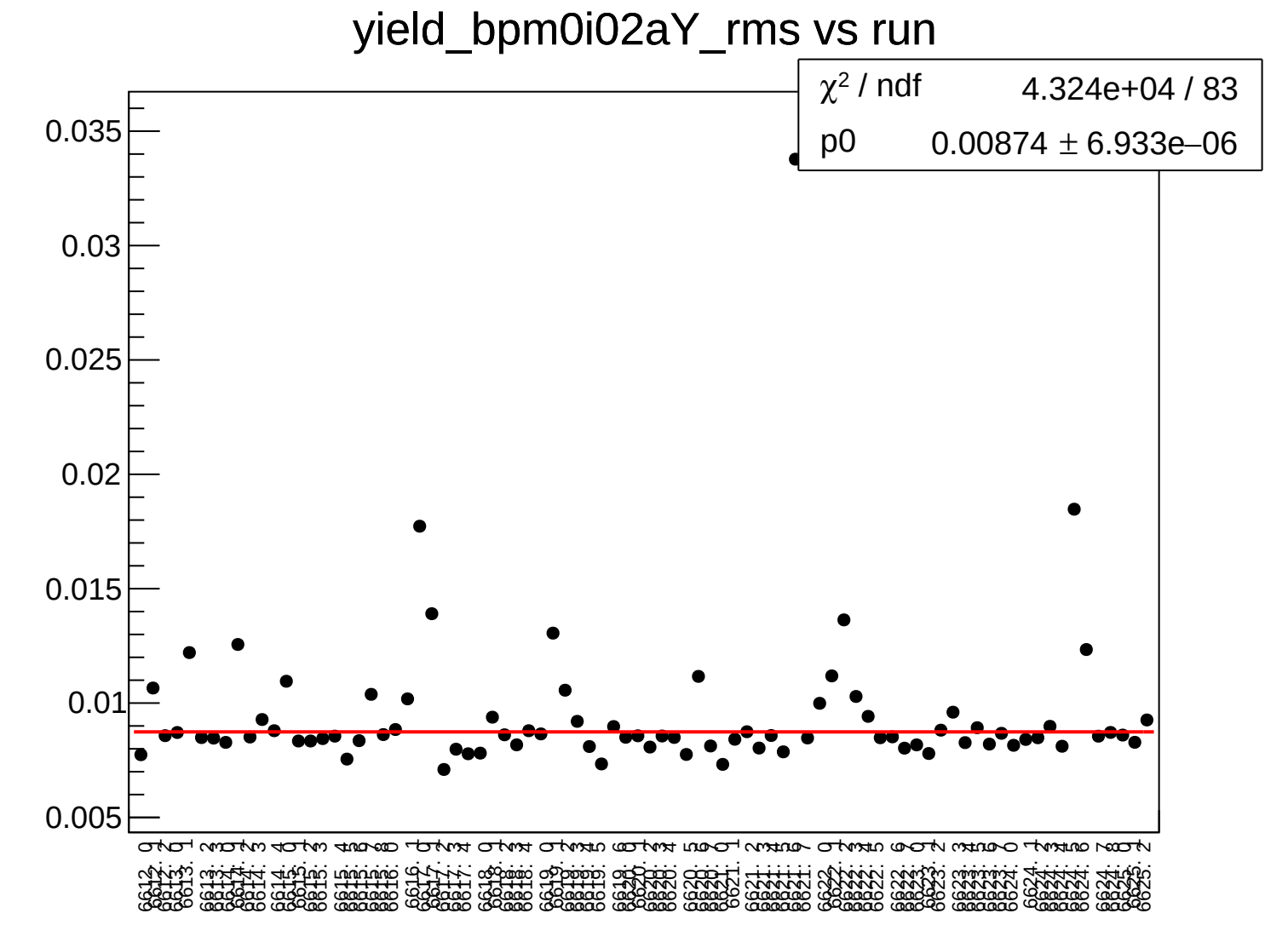

yield_bpm0i02aX_mean vs run
χ² / ndf 1.527e+06 / 83
p0 1.789 ± 1.365e−05
pull
Entries 84
Mean 57.73
Std Dev 0
pull1D
Entries 84
Mean 0.02322
Std Dev 1.367

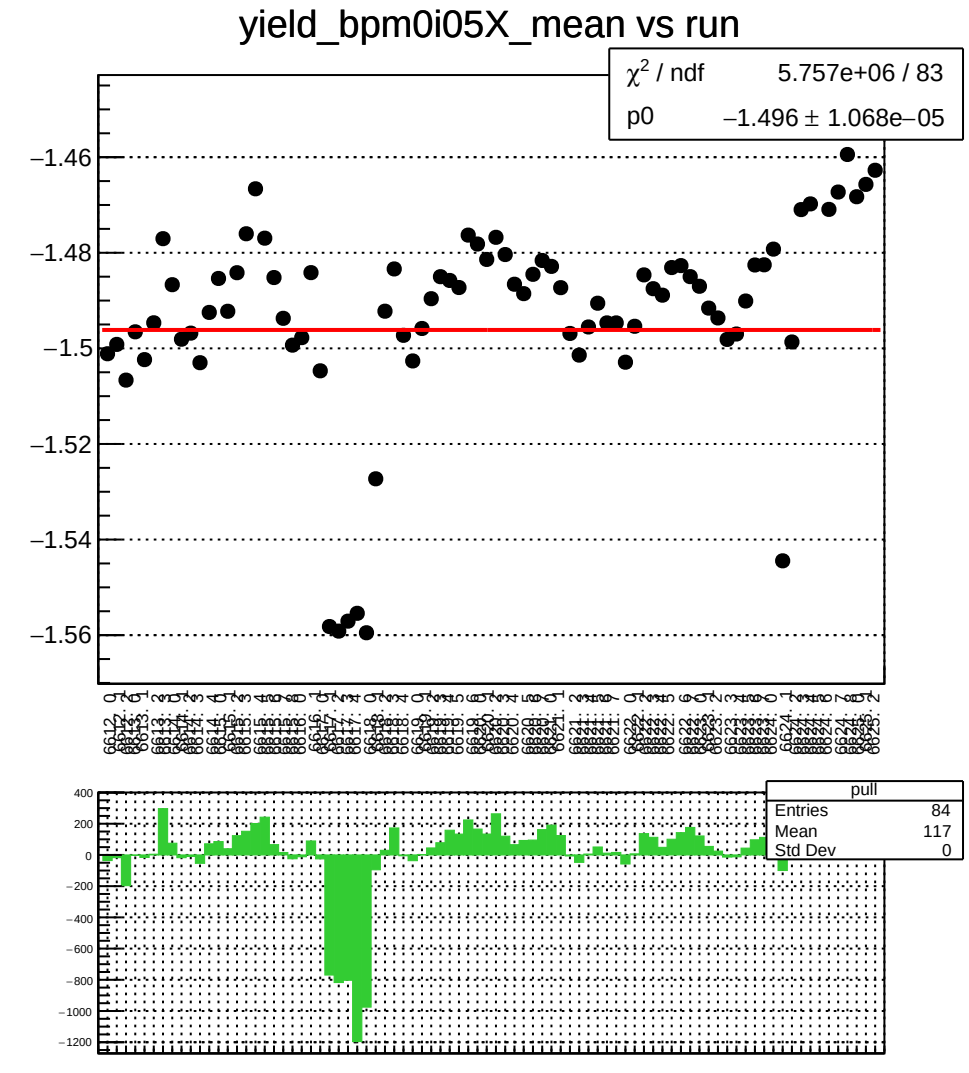
yield_bpm0i02aX_rms vs run

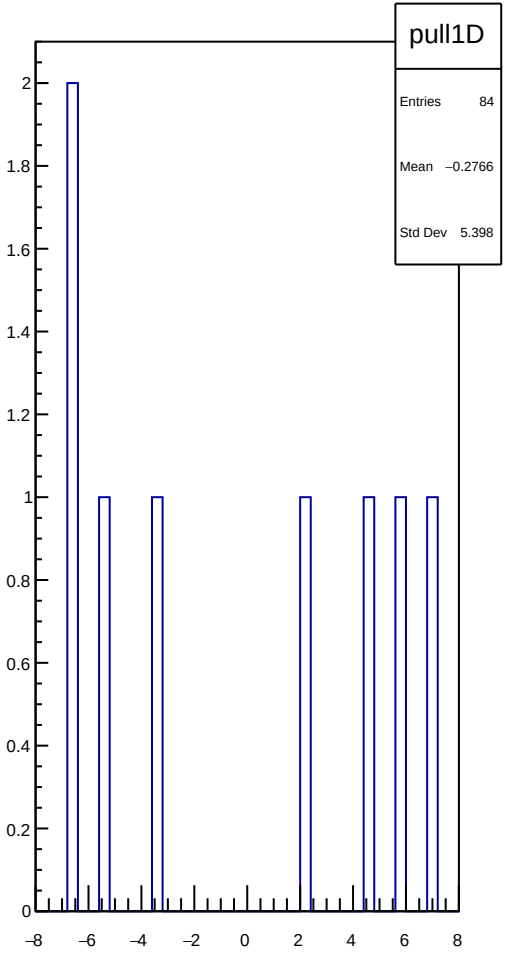


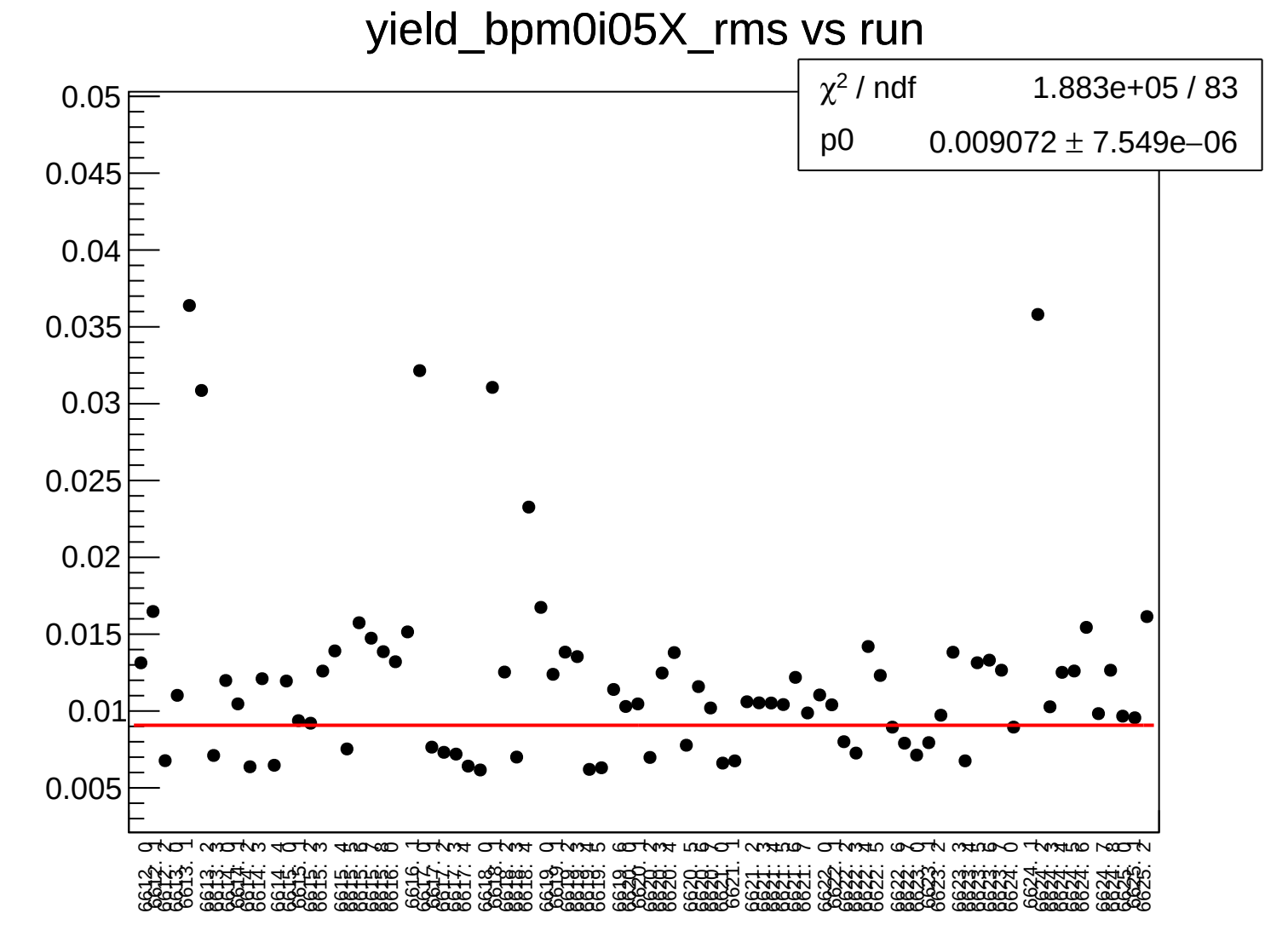

yield_bpm0i02aY_mean vs run
χ² / ndf 1.419e+07 / 83
p0 −1.486 ± 9.804e−06
−1.38
−1.4
−1.42
−1.44
−1.46
−1.48
−1.5
−1.52
−1.54
−1.56
pull
Entries 84
Mean 1130
Std Dev 0
1500
1000
500
0
−500

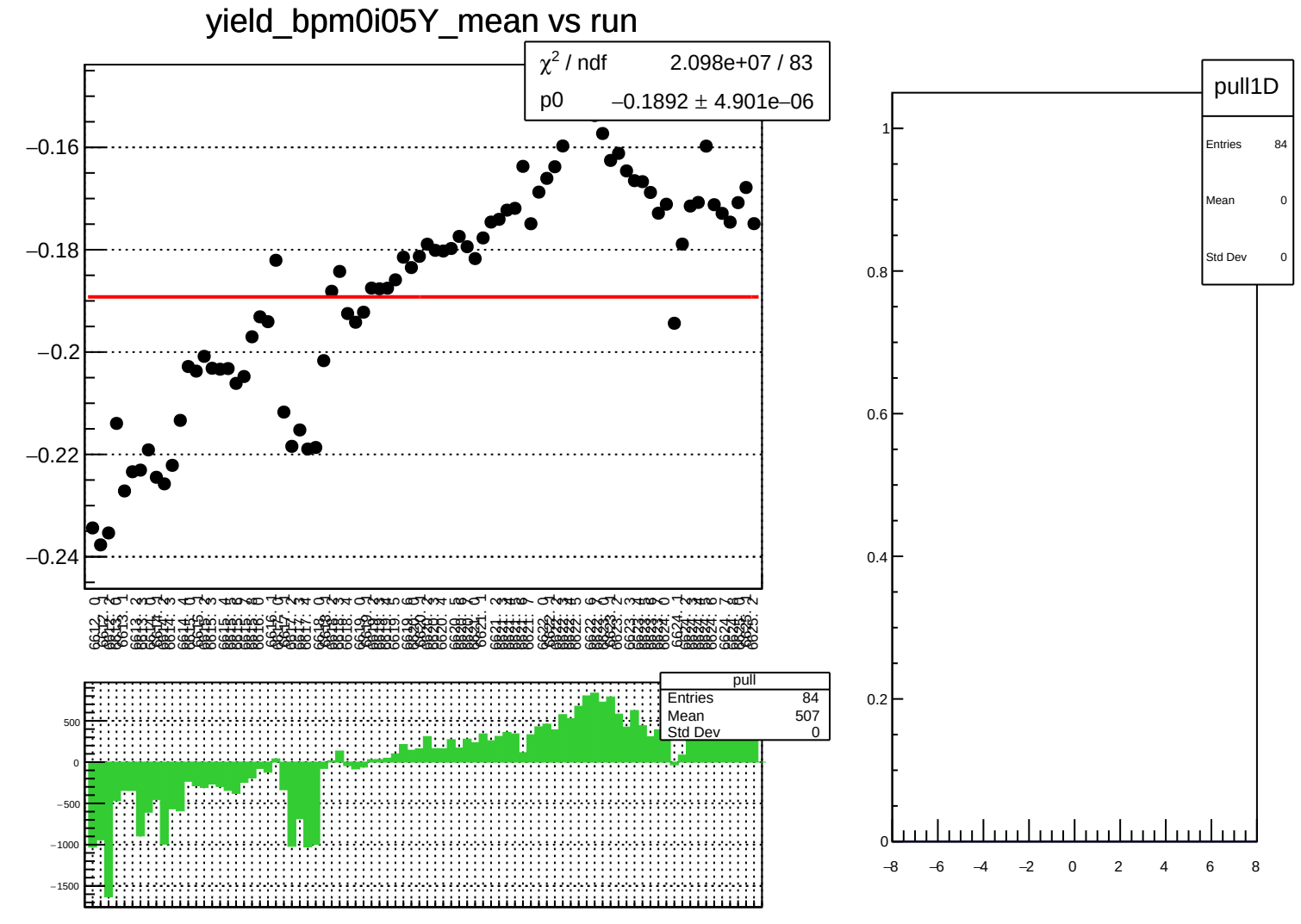

pull1D
Entries 84
Mean 7.741
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

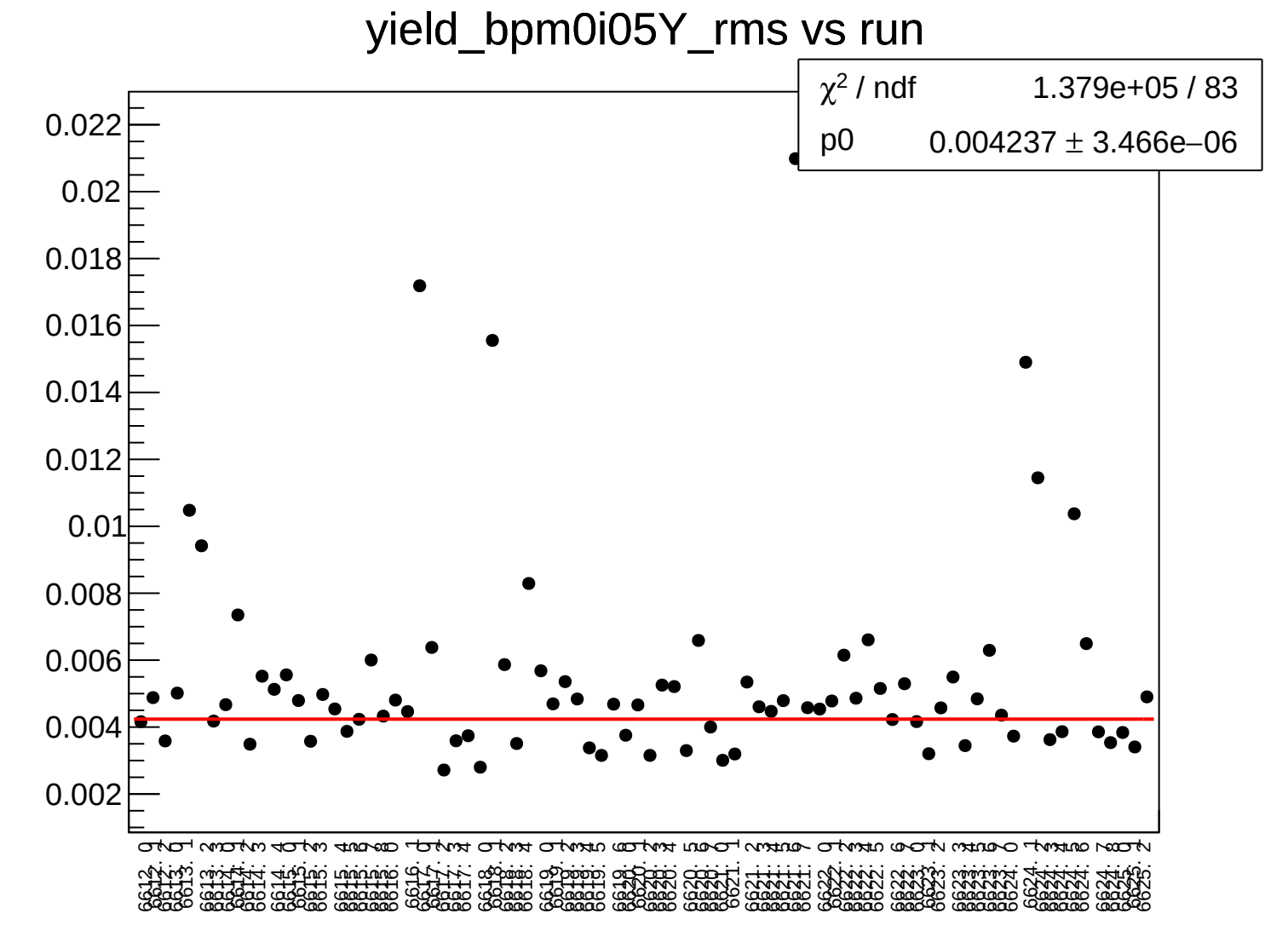

yield_bpm0i02aY_rms vs run
χ² / ndf 4.324e+04 / 83
p0 0.00874 ± 6.933e–06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

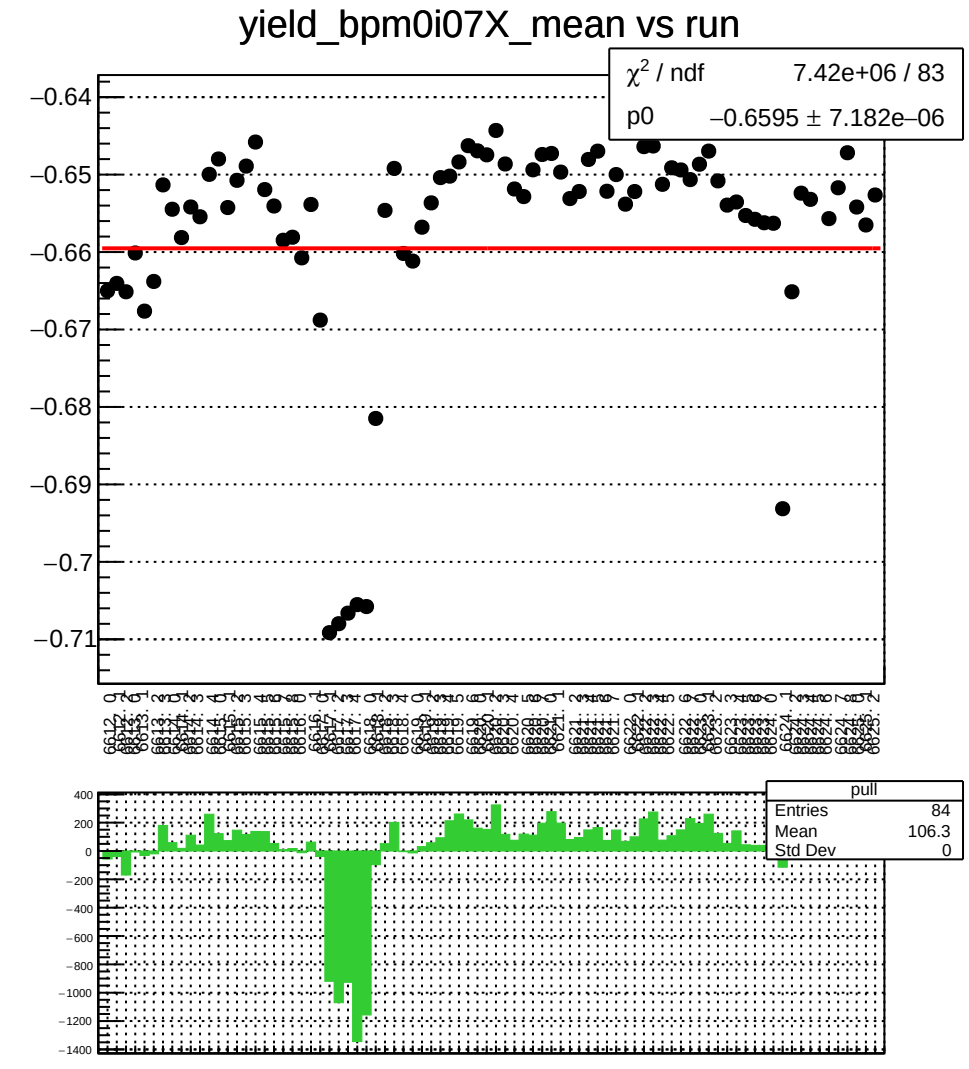

yield_bpm0i05X_mean vs run
χ² / ndf 5.757e+06 / 83
p0 −1.496 ± 1.068e−05
−1.46
−1.48
−1.5
−1.52
−1.54
−1.56
pull
Entries 84
Mean 117
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200

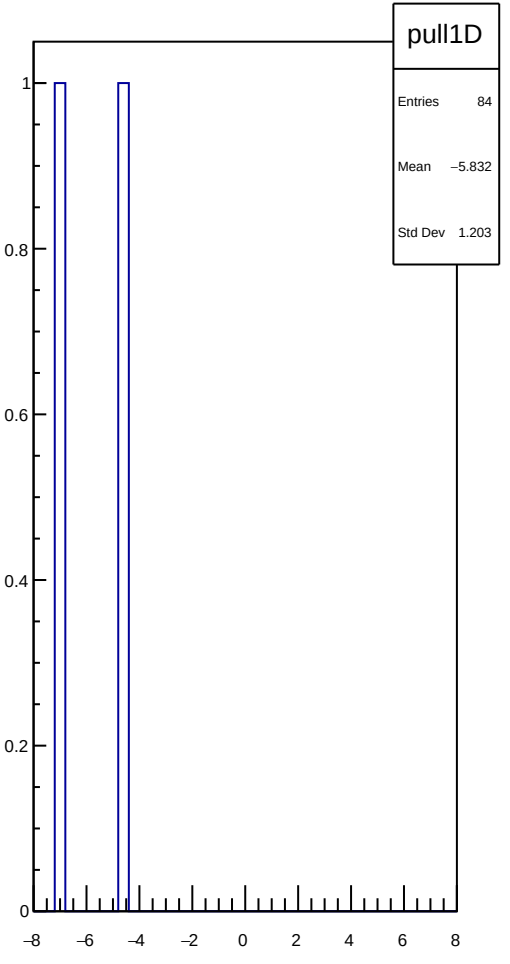

pull1D
Entries 84
Mean −0.2766
Std Dev 5.398
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

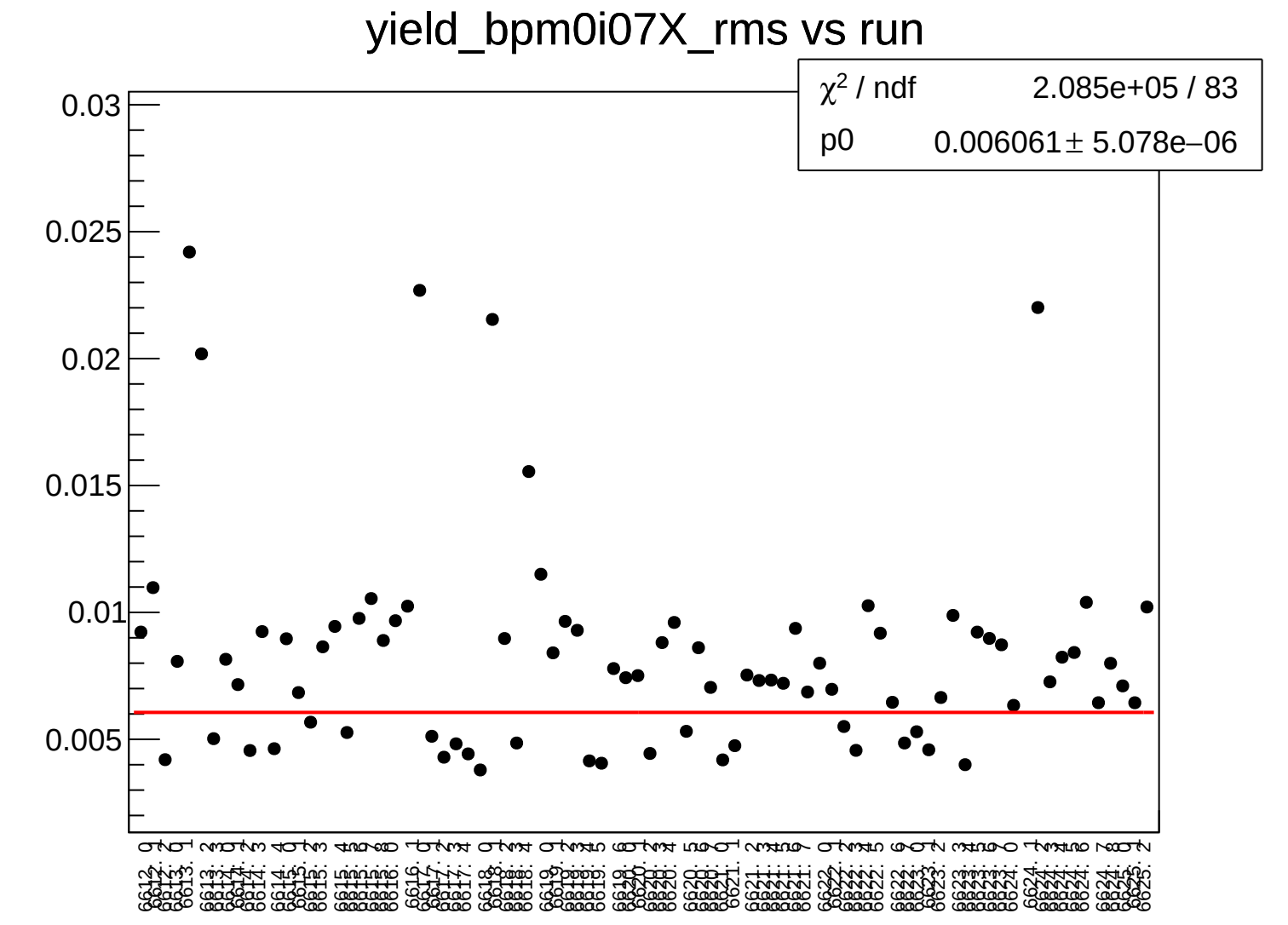

yield_bpm0i05X_rms vs run
χ² / ndf 1.883e+05 / 83
p0 0.009072 ± 7.549e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

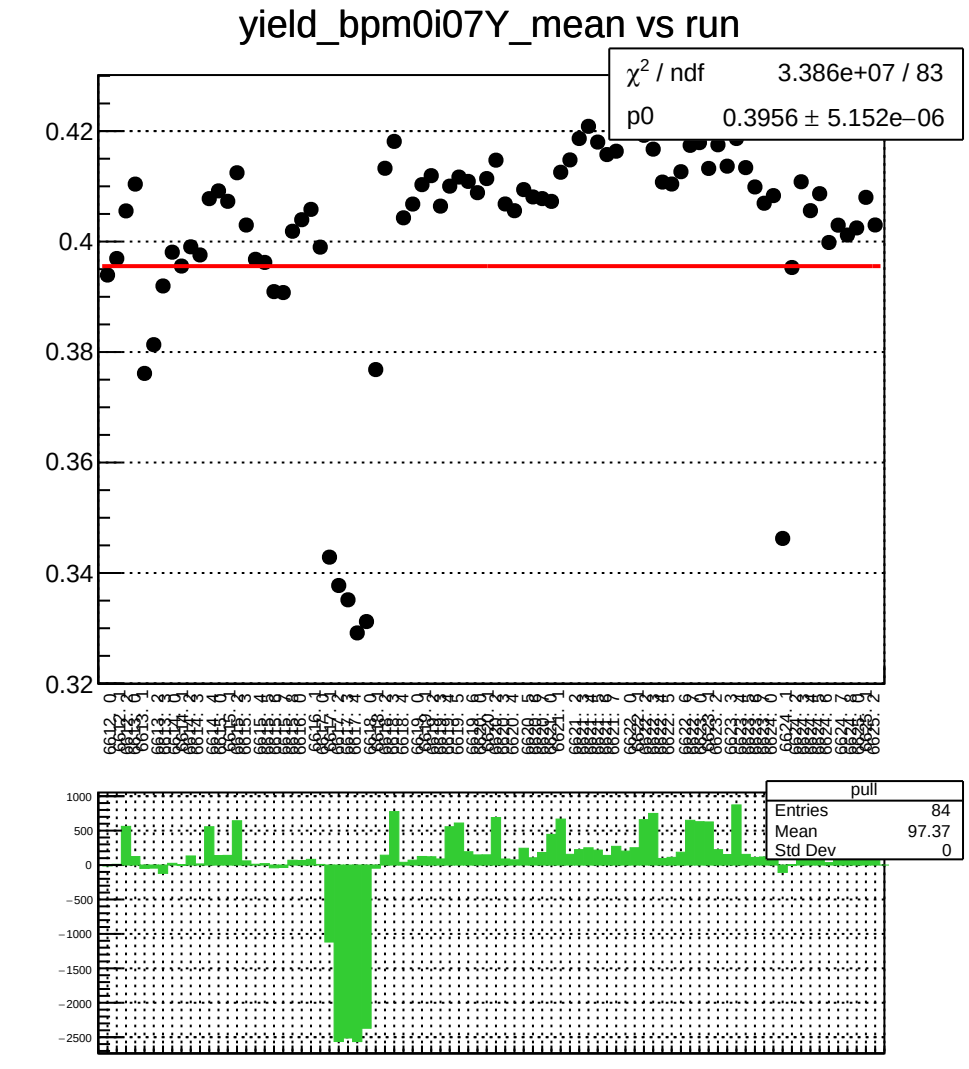

yield_bpm0i05Y_mean vs run
χ² / ndf 2.098e+07 / 83
p0 −0.1892 ± 4.901e−06
−0.16
−0.18
−0.2
−0.22
−0.24
pull
Entries 84
Mean 507
Std Dev 0
500
0
−500
−1000
−1500
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

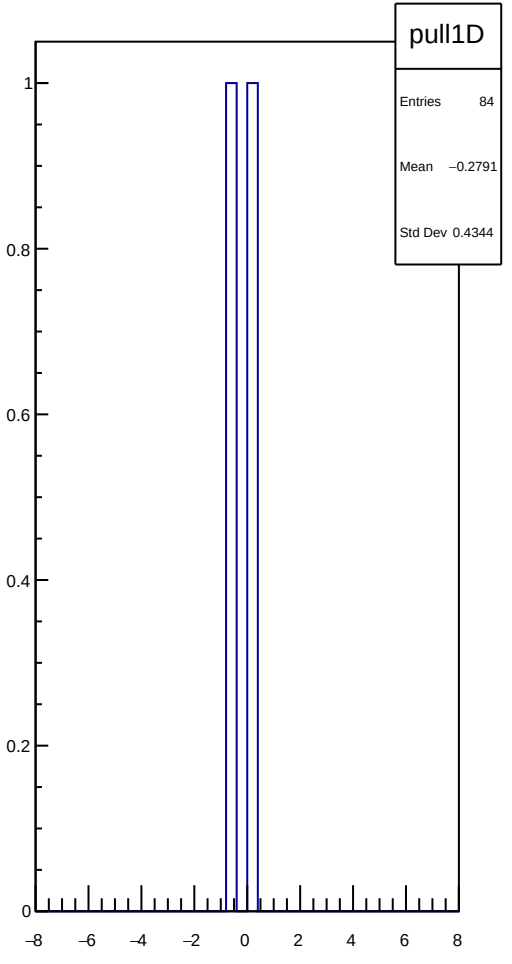

yield_bpm0i05Y_rms vs run
χ² / ndf 1.379e+05 / 83
p0 0.004237 ± 3.466e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002


yield_bpm0i07X_mean vs run
χ² / ndf 7.42e+06 / 83
p0 −0.6595 ± 7.182e−06
−0.64
−0.65
−0.66
−0.67
−0.68
−0.69
−0.7
−0.71
pull
Entries 84
Mean 106.3
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

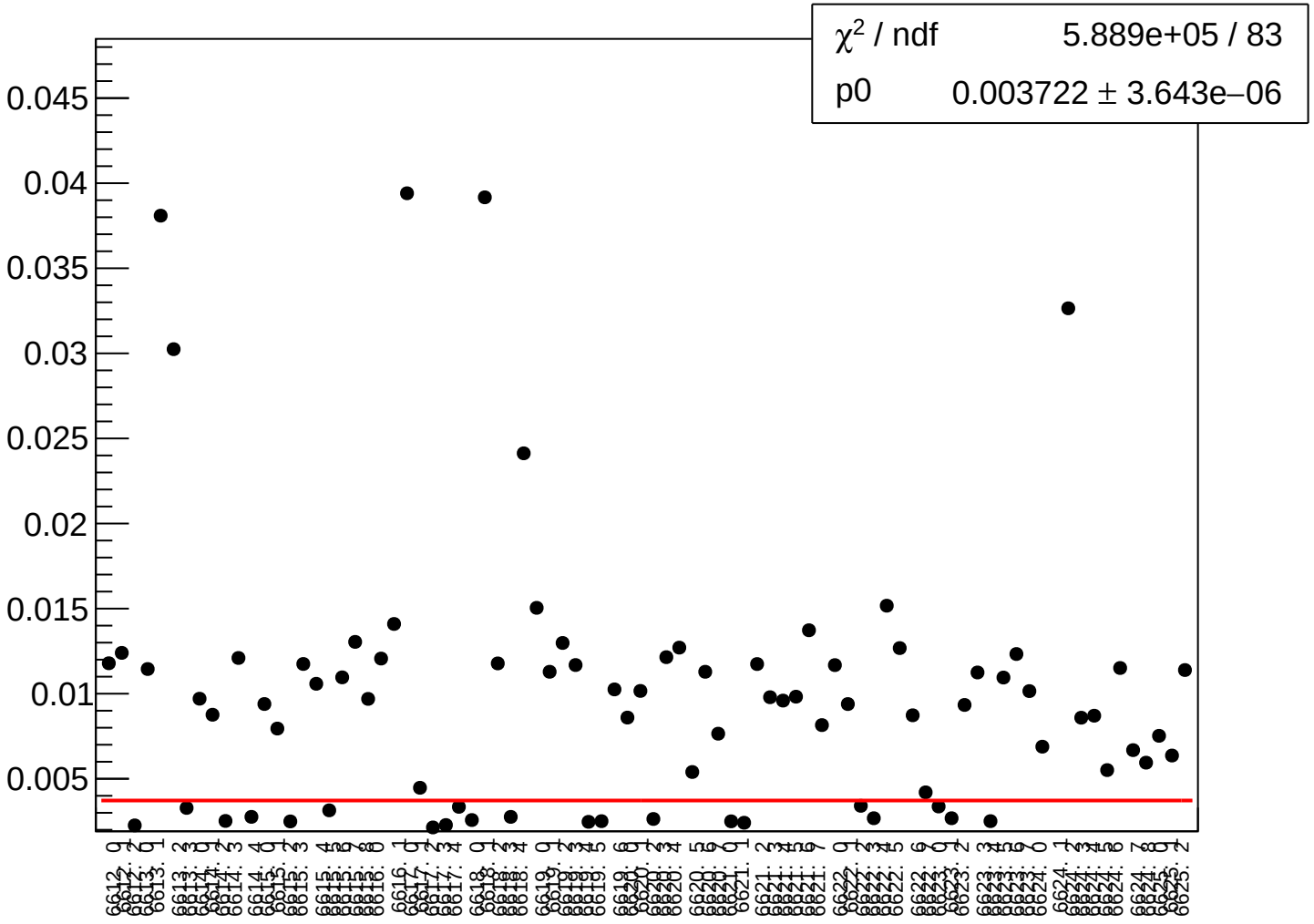

pull1D
Entries 84
Mean −5.832
Std Dev 1.203
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

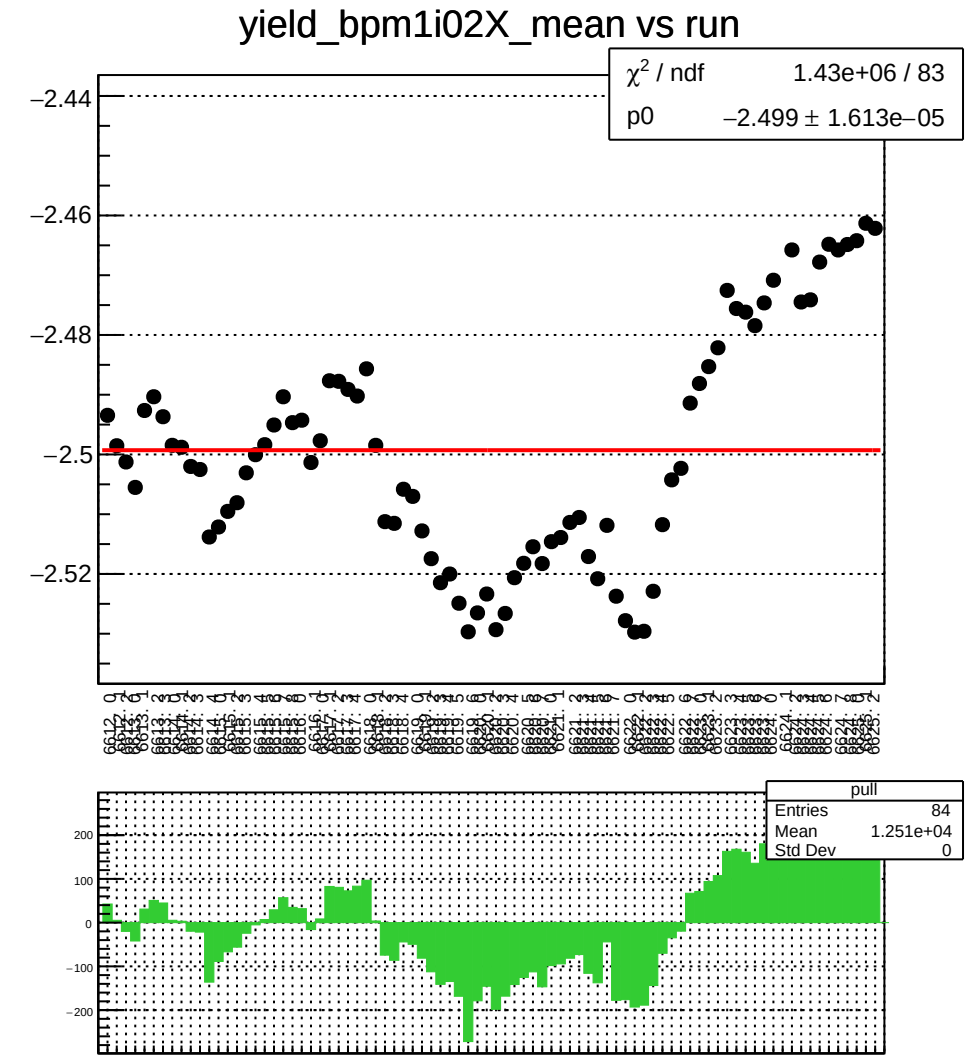

yield_bpm0i07X_rms vs run
χ² / ndf 2.085e+05 / 83
p0 0.006061 ± 5.078e−06
0.03
0.025
0.02
0.015
0.01
0.005

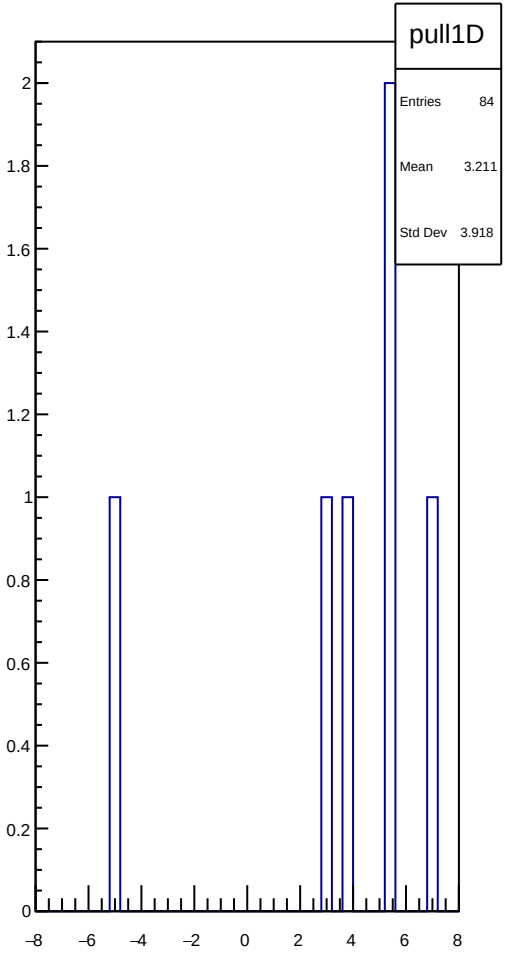

yield_bpm0i07Y_mean vs run
χ² / ndf 3.386e+07 / 83
p0 0.3956 ± 5.152e−06
0.42
0.4
0.38
0.36
0.34
0.32
pull
Entries 84
Mean 97.37
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

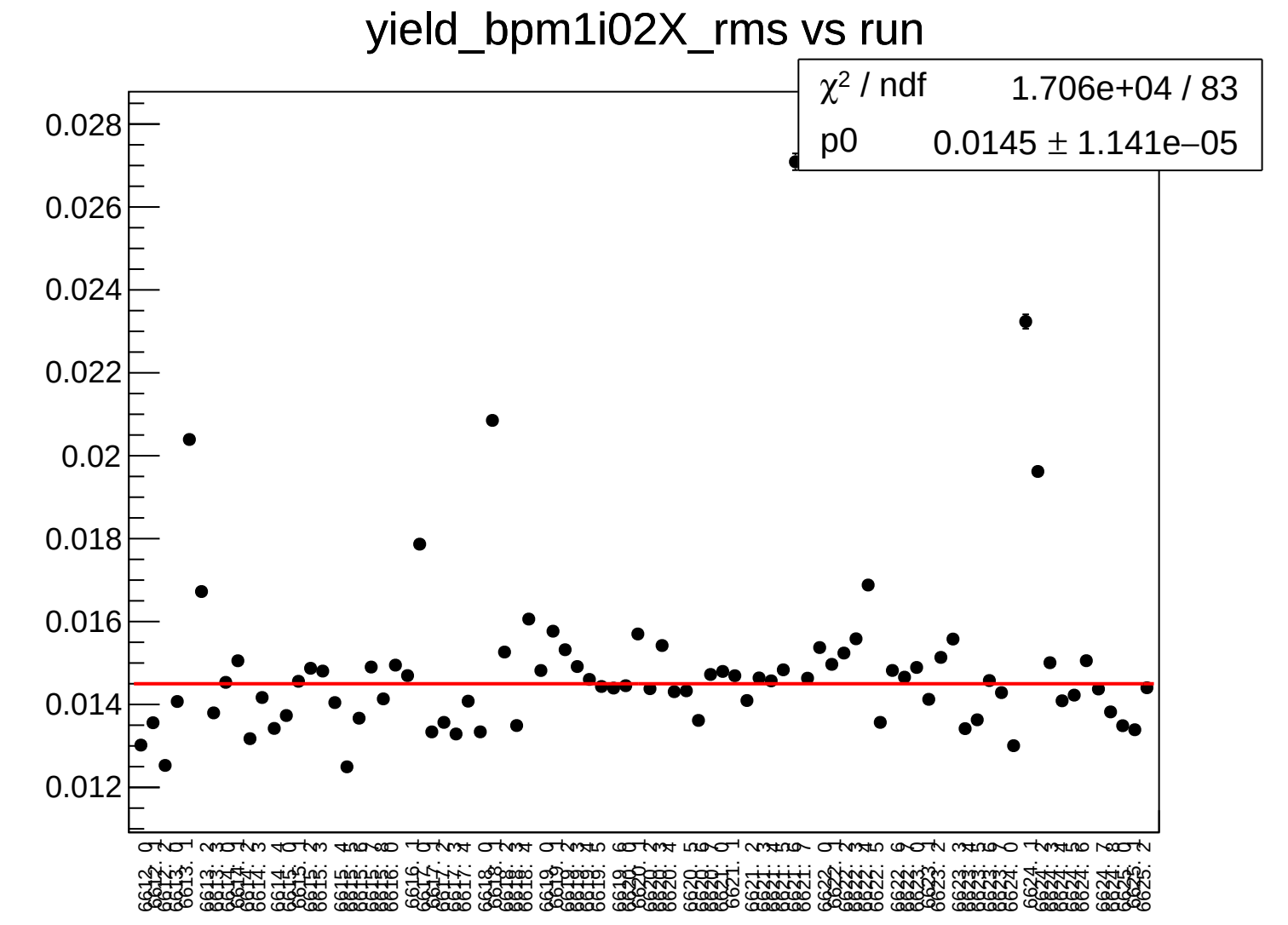

pull1D
Entries 84
Mean −0.2791
Std Dev 0.4344
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

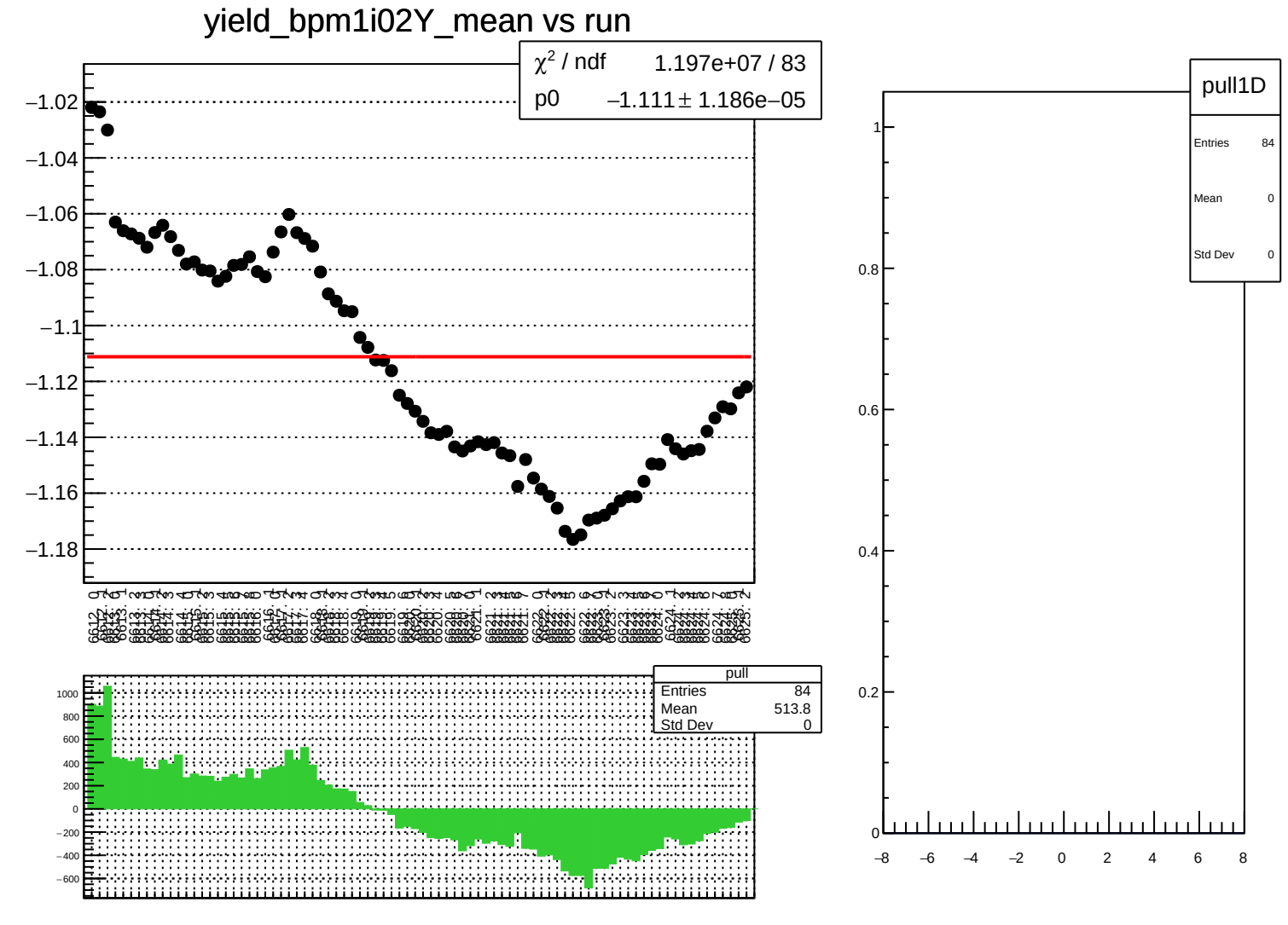
yield_bpm0i07Y_rms vs run

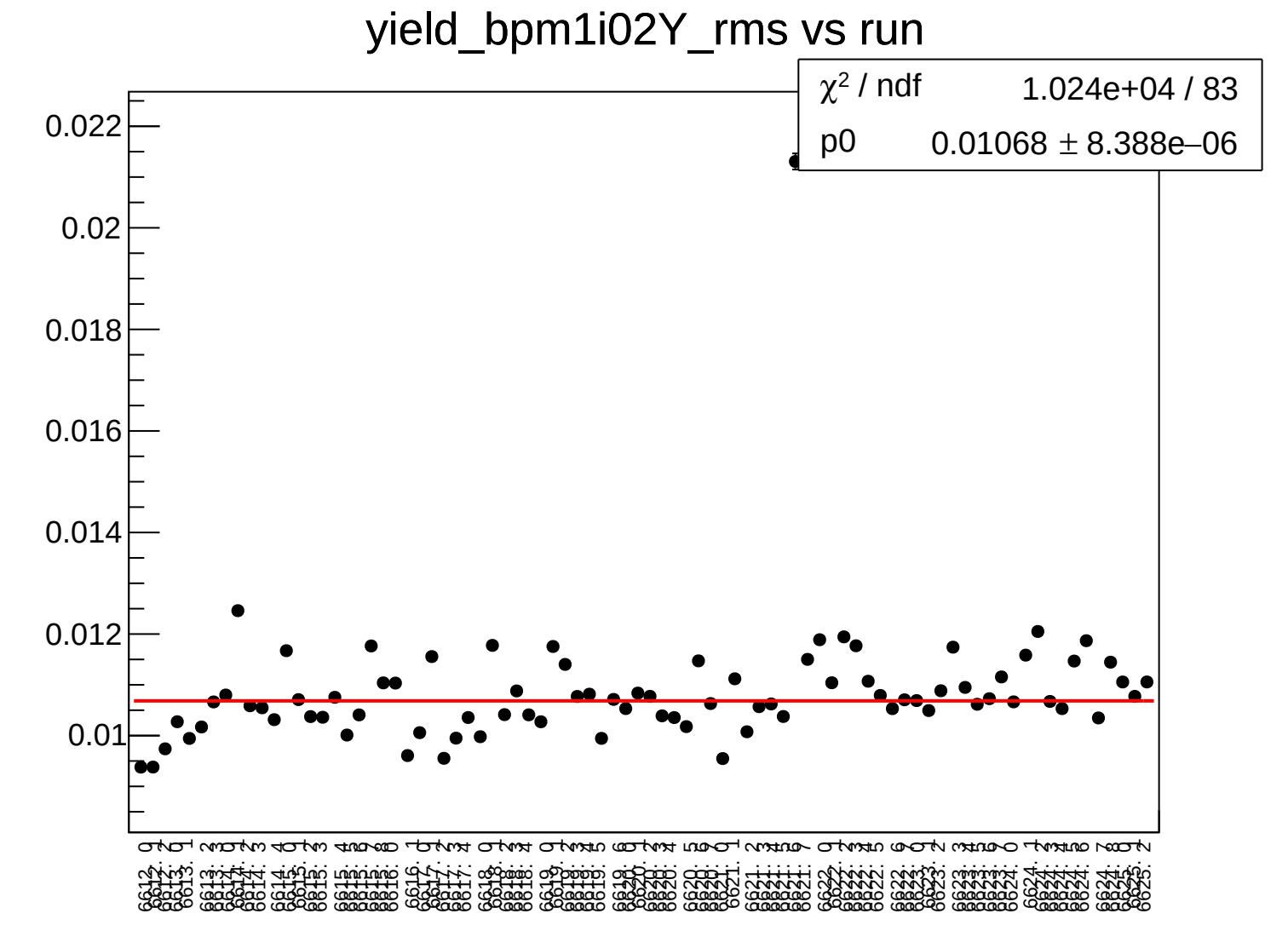


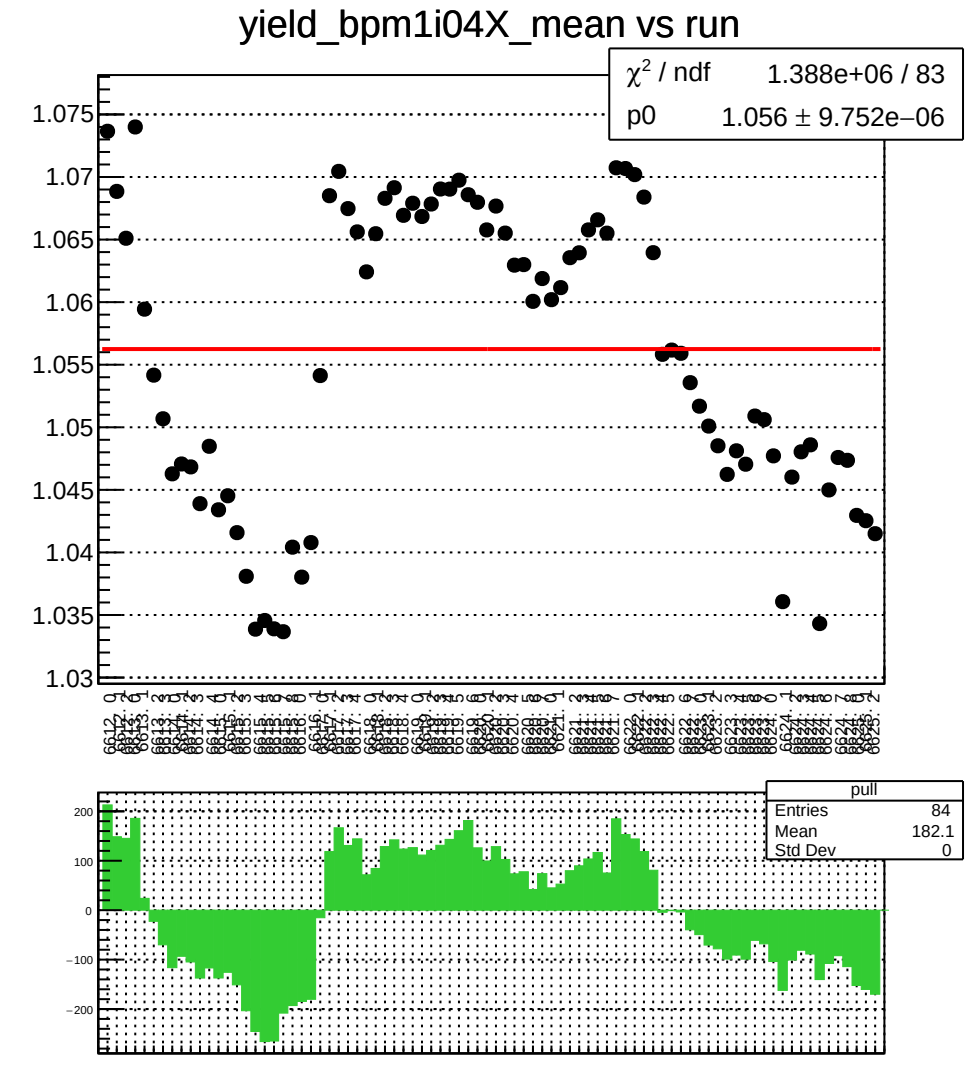

yield_bpm1i02X_mean vs run
χ² / ndf 1.43e+06 / 83
p0 −2.499 ± 1.613e−05
−2.44
−2.46
−2.48
−2.5
−2.52
pull
Entries 84
Mean 1.251e+04
Std Dev 0
200
100
0
−100
−200

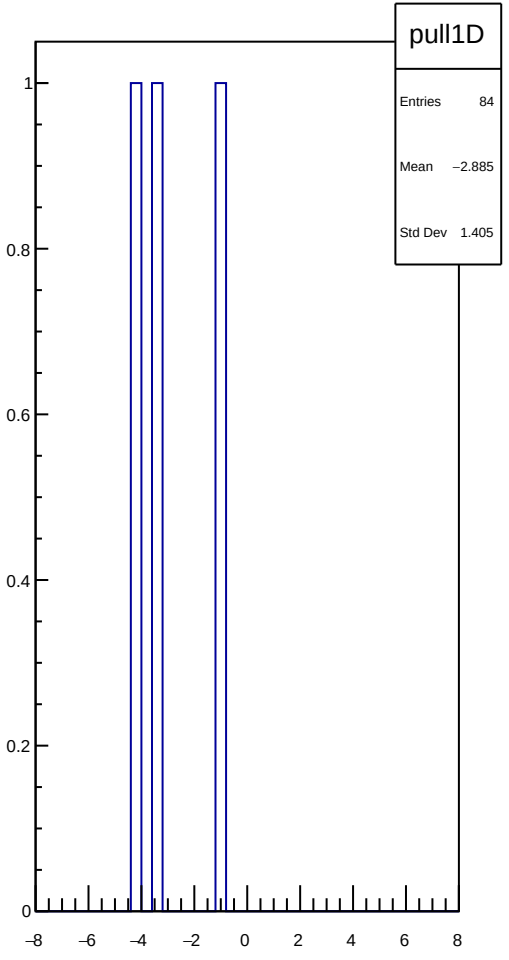

pull1D
Entries 84
Mean 3.211
Std Dev 3.918
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

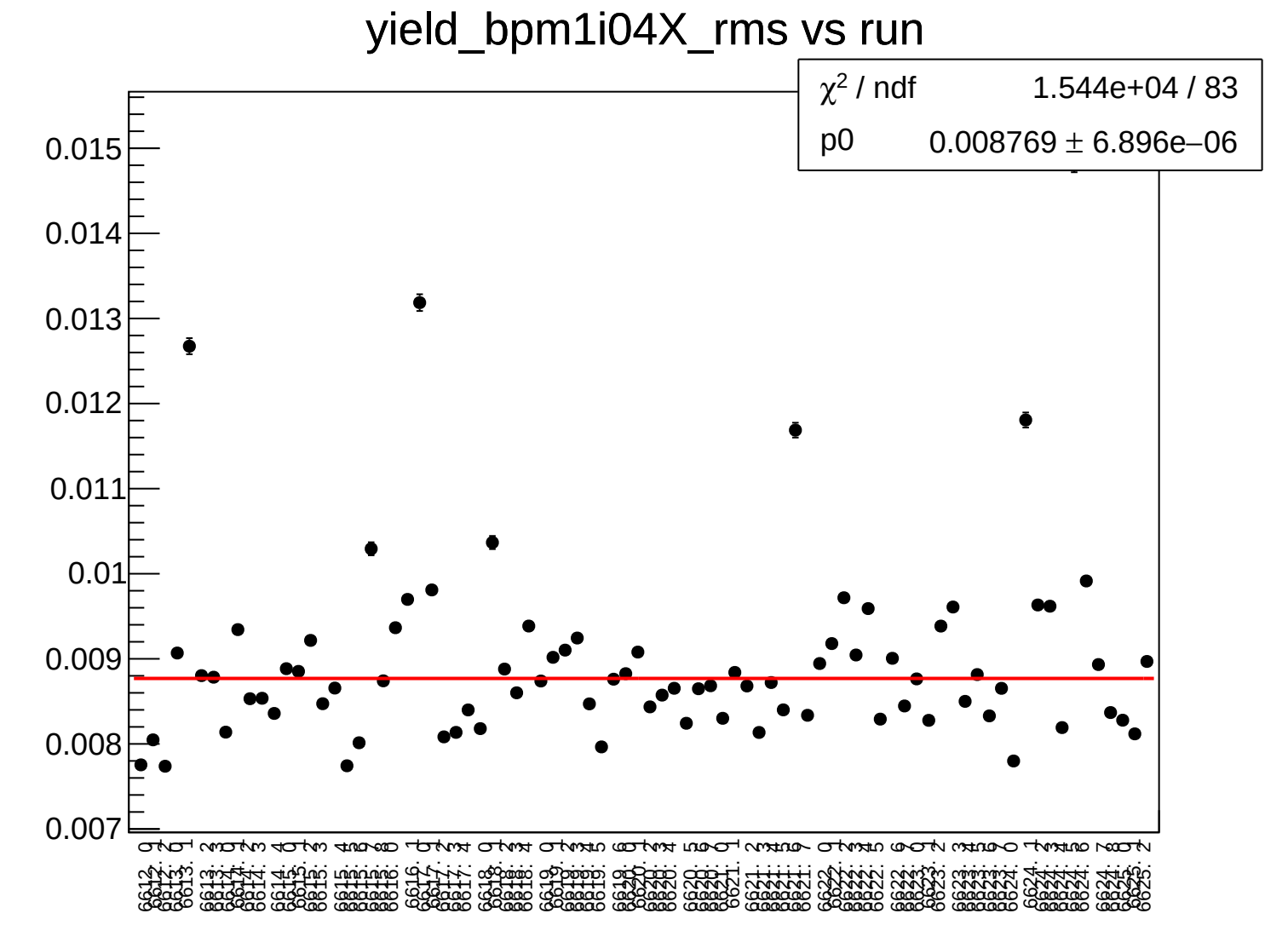

yield_bpm1i02X_rms vs run
χ² / ndf 1.706e+04 / 83
p0 0.0145 ± 1.141e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

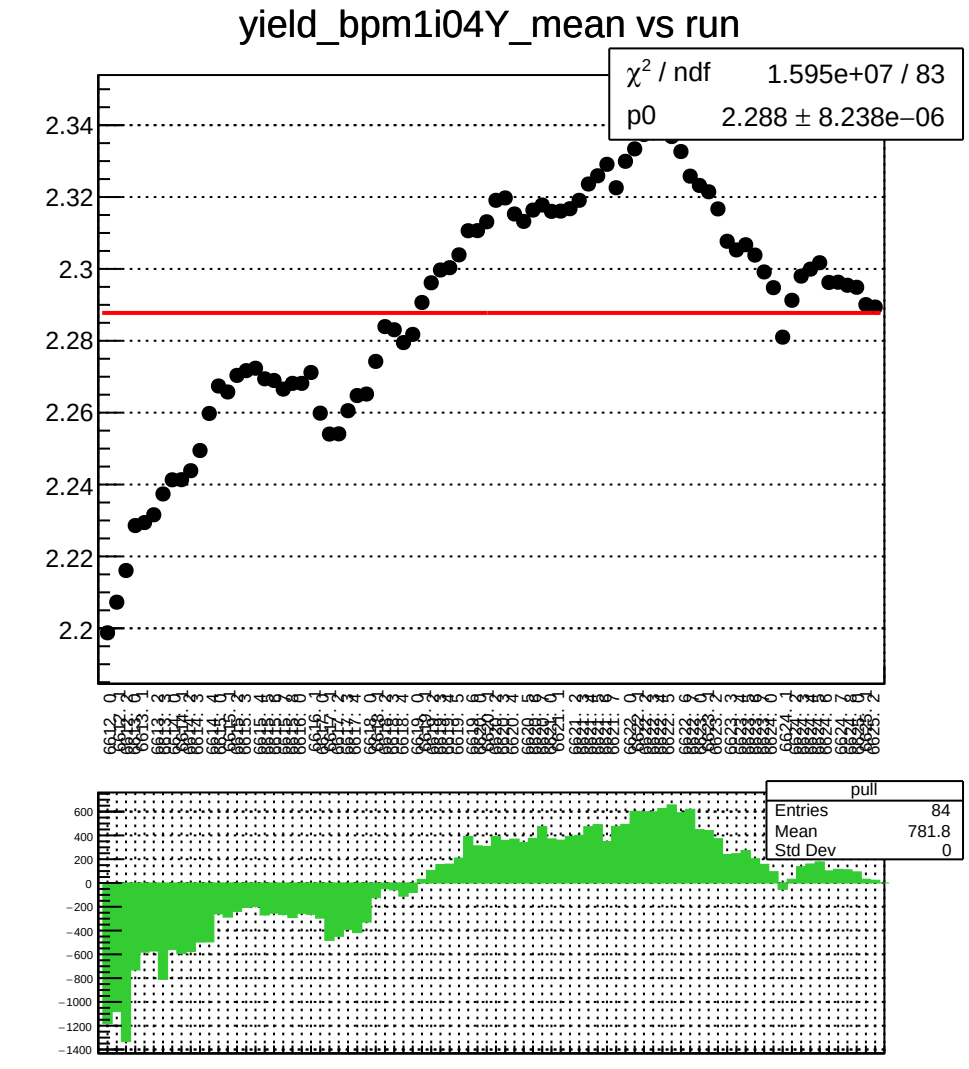

yield_bpm1i02Y_mean vs run
χ² / ndf 1.197e+07 / 83
p0 −1.111 ± 1.186e−05
−1.02
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
−1.16
−1.18
pull
Entries 84
Mean 513.8
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

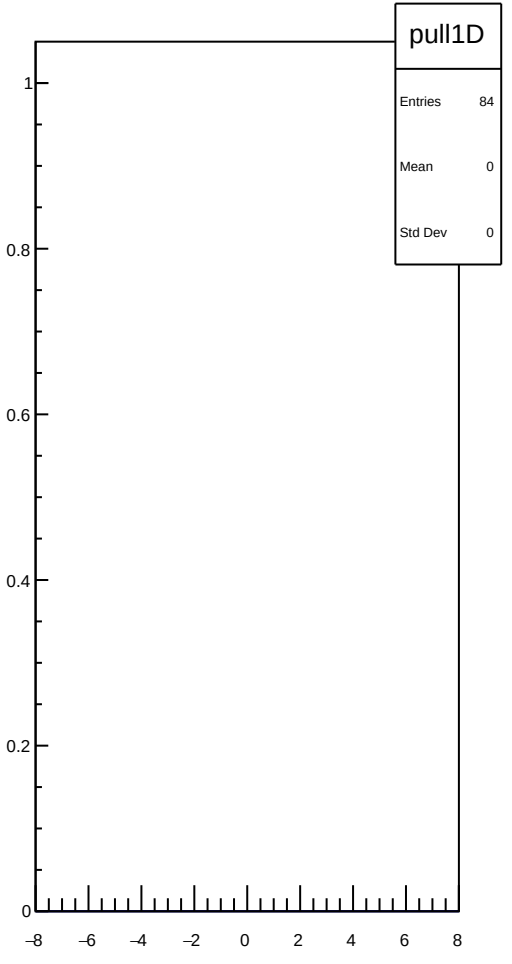

yield_bpm1i02Y_rms vs run
χ² / ndf 1.024e+04 / 83
p0 0.01068 ± 8.388e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

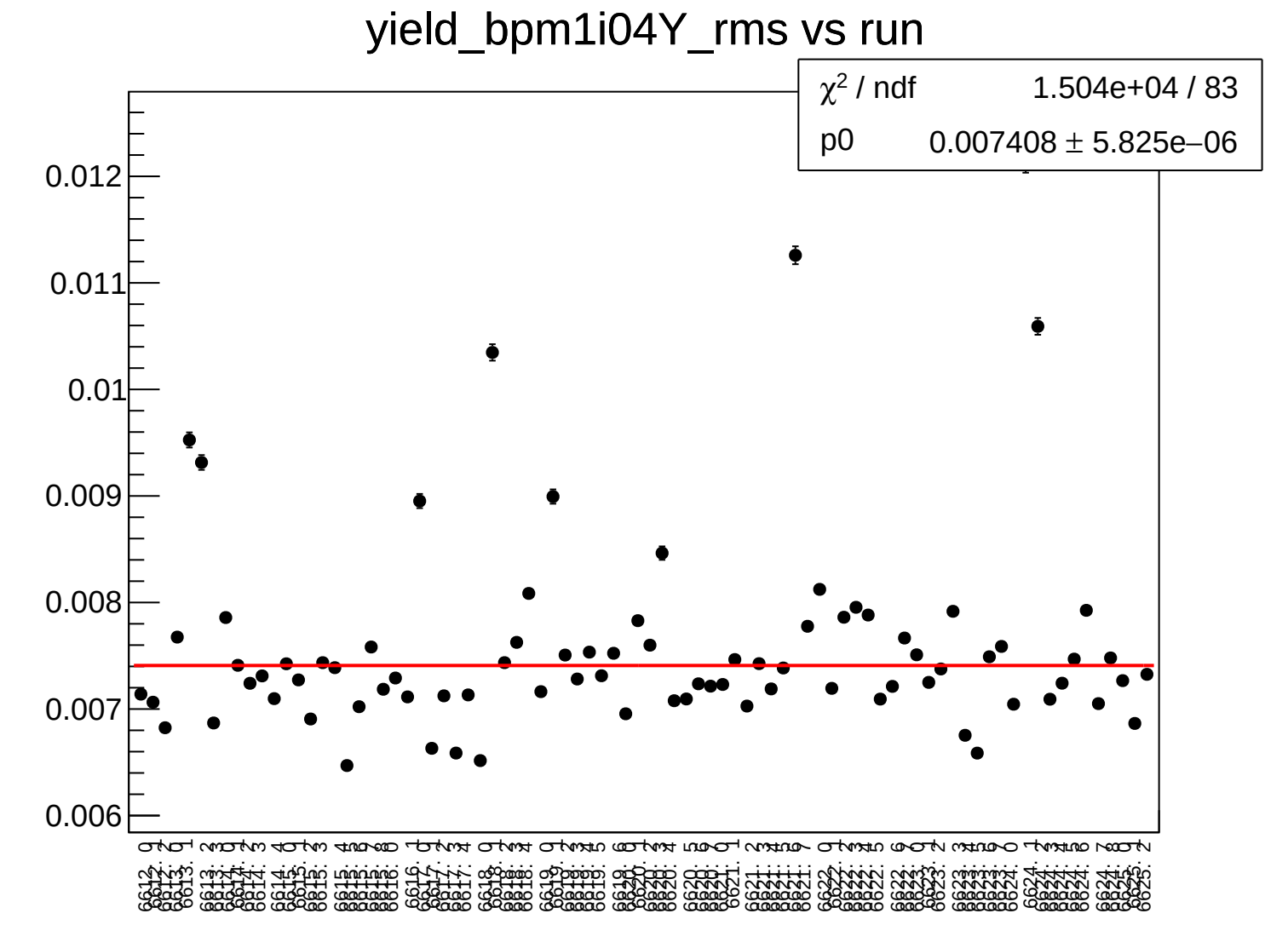

yield_bpm1i04X_mean vs run
χ² / ndf 1.388e+06 / 83
p0 1.056 ± 9.752e−06
1.075
1.07
1.065
1.06
1.055
1.05
1.045
1.04
1.035
1.03
pull
Entries 84
Mean 182.1
Std Dev 0
200
100
0
−100
−200

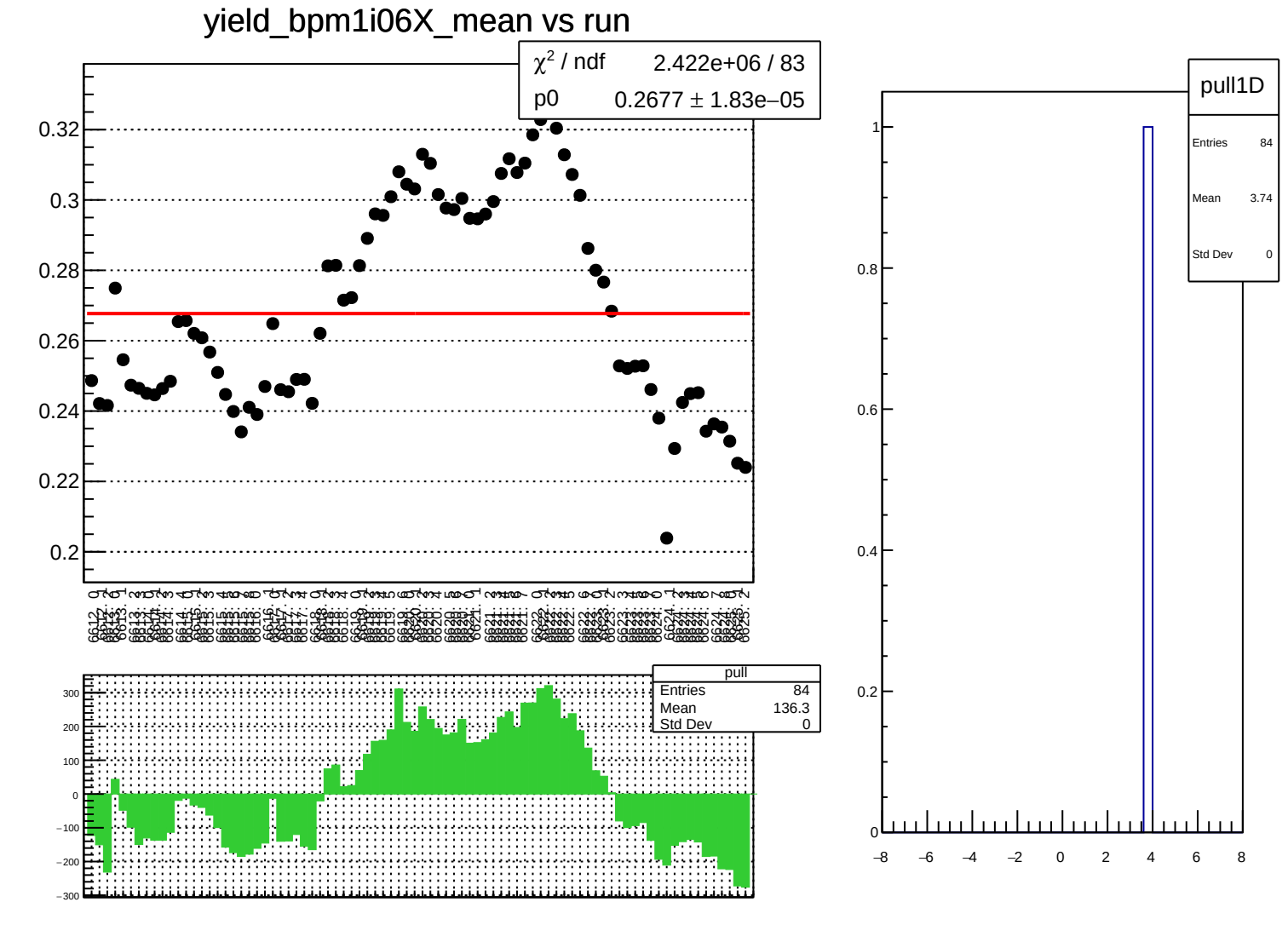

pull1D
Entries 84
Mean −2.885
Std Dev 1.405
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

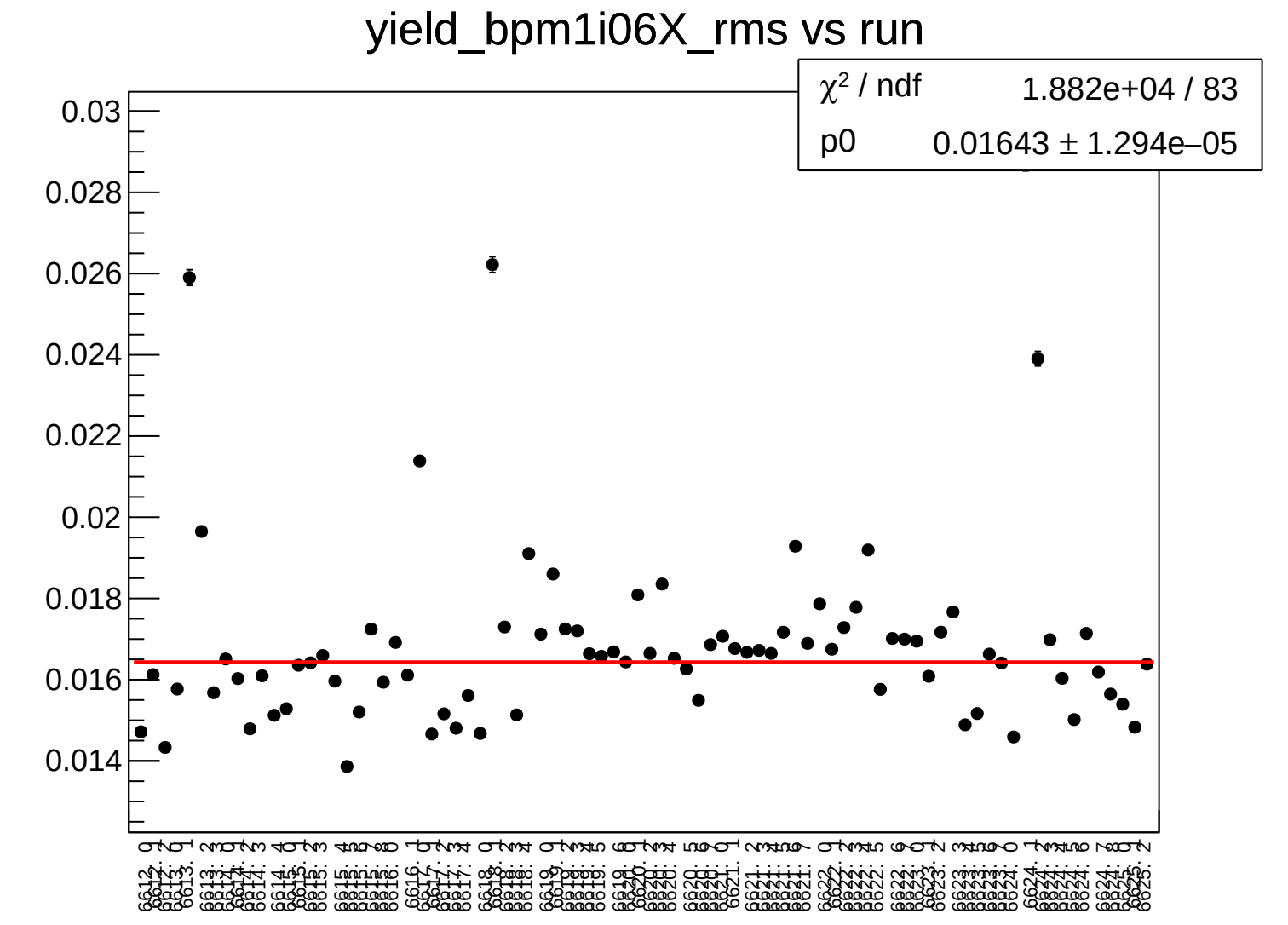

yield_bpm1i04X_rms vs run
χ^2 / ndf 1.544e+04 / 83
p0 0.008769 ± 6.896e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

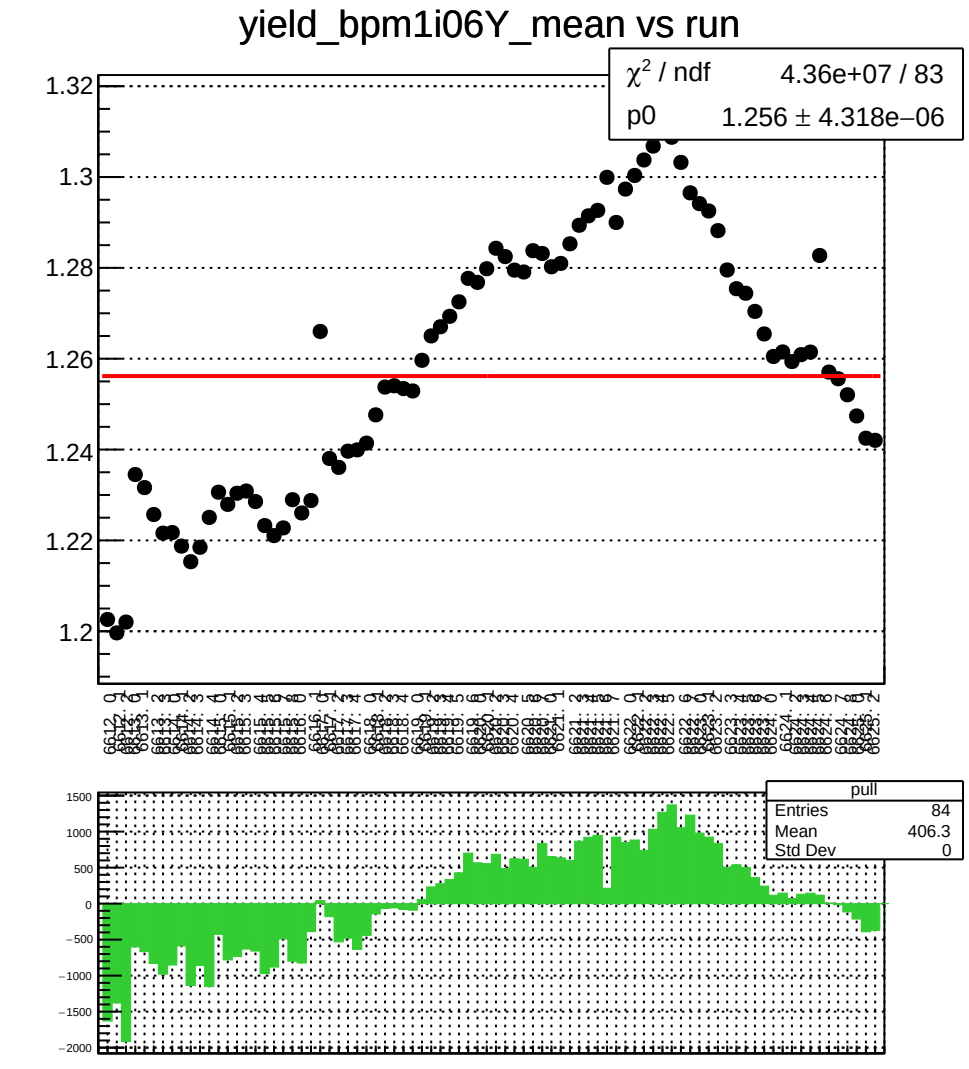

yield_bpm1i04Y_mean vs run
χ² / ndf 1.595e+07 / 83
p0 2.288 ± 8.238e−06
2.34
2.32
2.3
2.28
2.26
2.24
2.22
2.2
pull
Entries 84
Mean 781.8
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

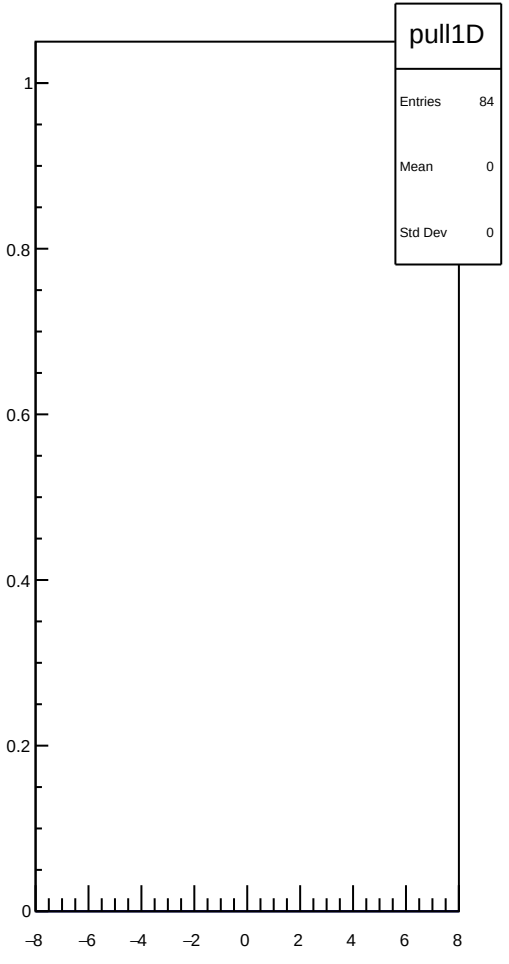

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

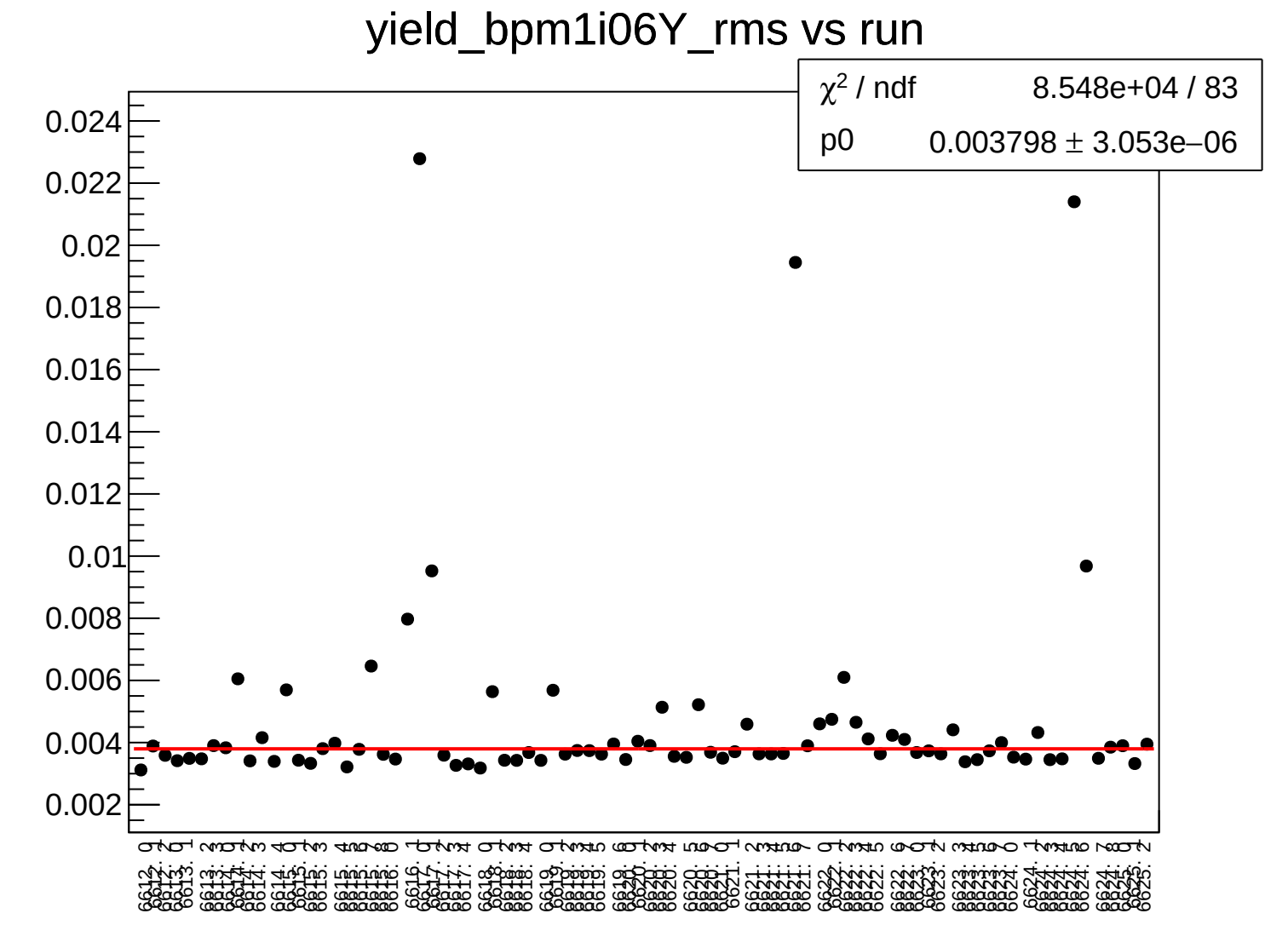

yield_bpm1i04Y_rms vs run
χ^2 / ndf 1.504e+04 / 83
p0 0.007408 ± 5.825e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

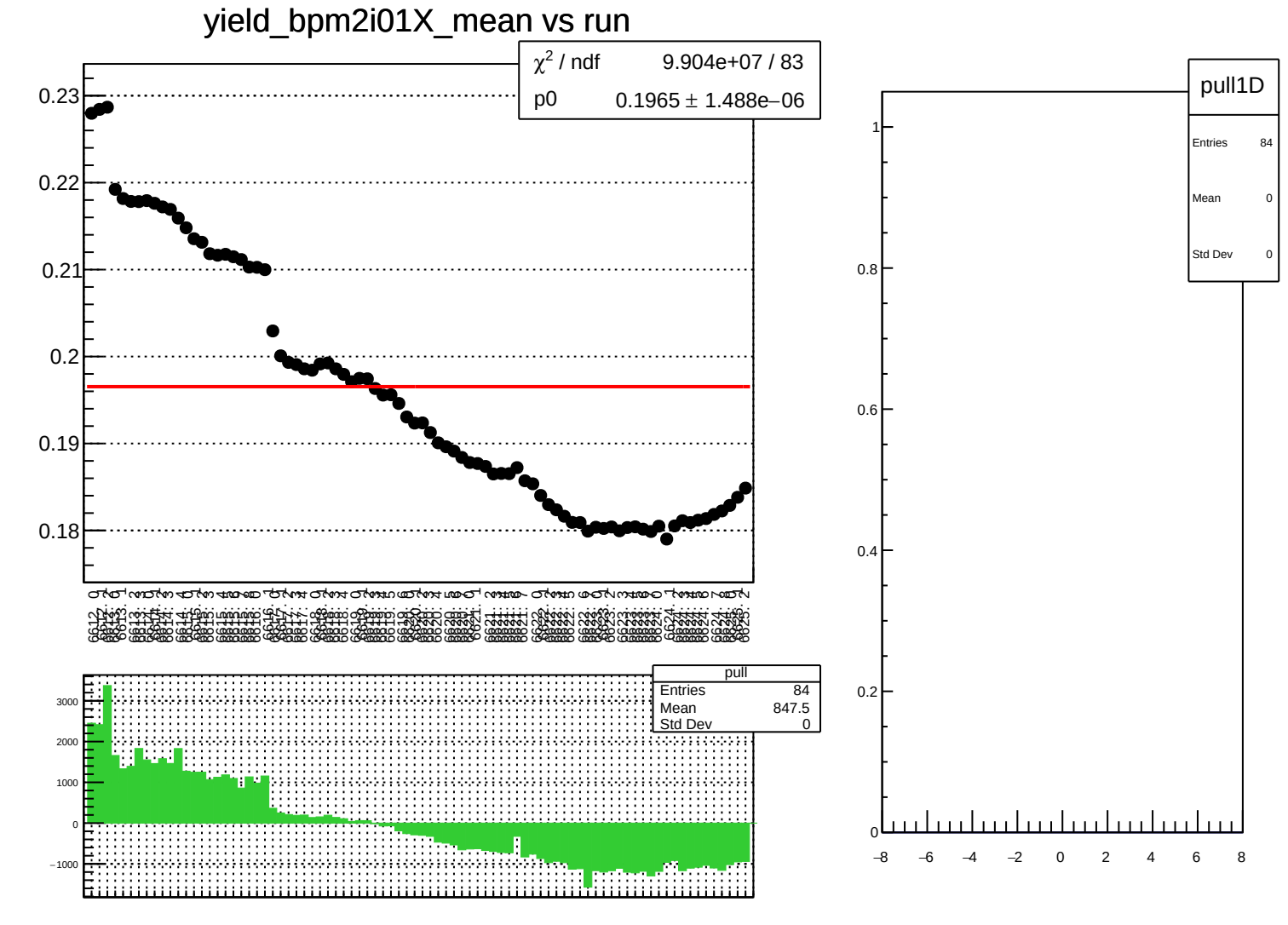

yield_bpm1i06X_mean vs run
χ² / ndf 2.422e+06 / 83
p0 0.2677 ± 1.83e−05
0.32
0.3
0.28
0.26
0.24
0.22
0.2
pull
Entries 84
Mean 136.3
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 84
Mean 3.74
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

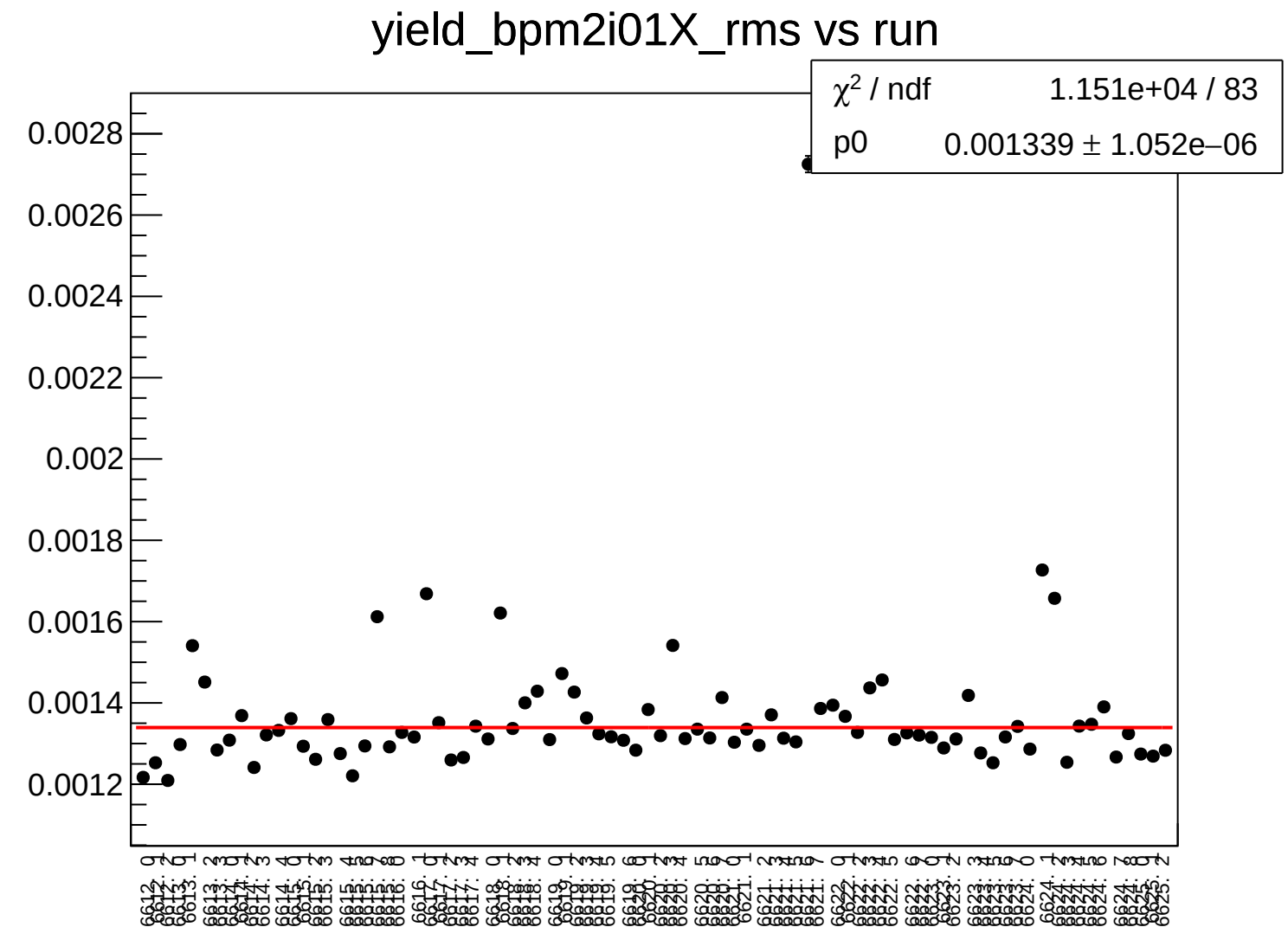

yield_bpm1i06X_rms vs run
χ² / ndf 1.882e+04 / 83
p0 0.01643 ± 1.294e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

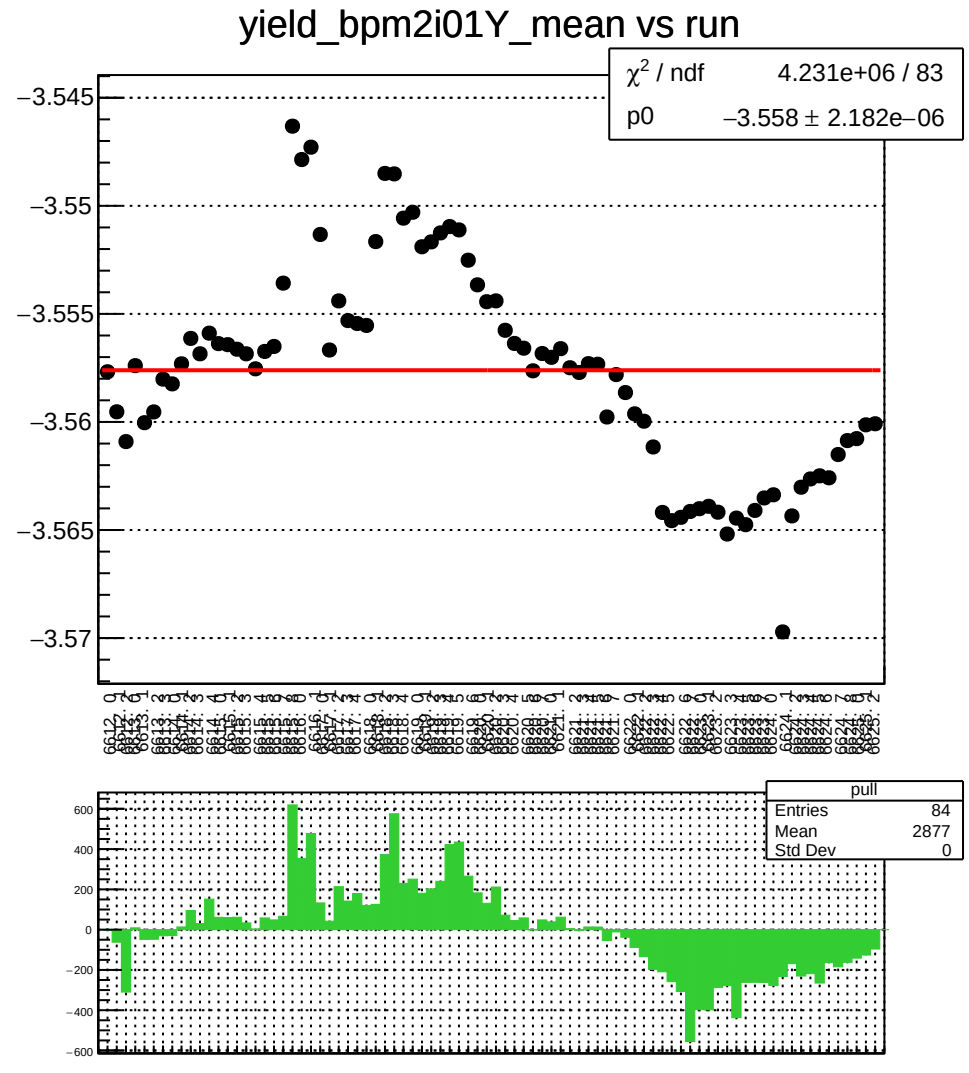

yield_bpm1i06Y_mean vs run
χ² / ndf 4.36e+07 / 83
p0 1.256 ± 4.318e−06
1.32
1.3
1.28
1.26
1.24
1.22
1.2
pull
Entries 84
Mean 406.3
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000

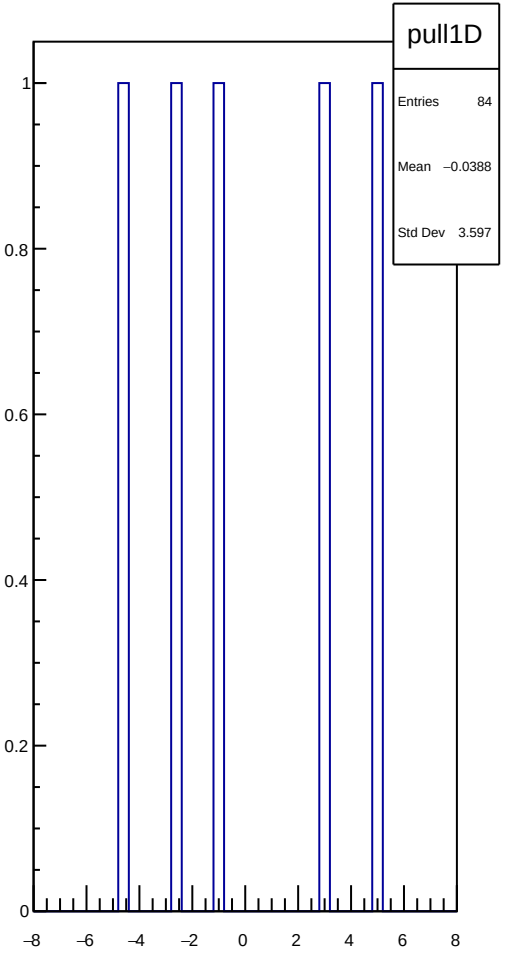

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

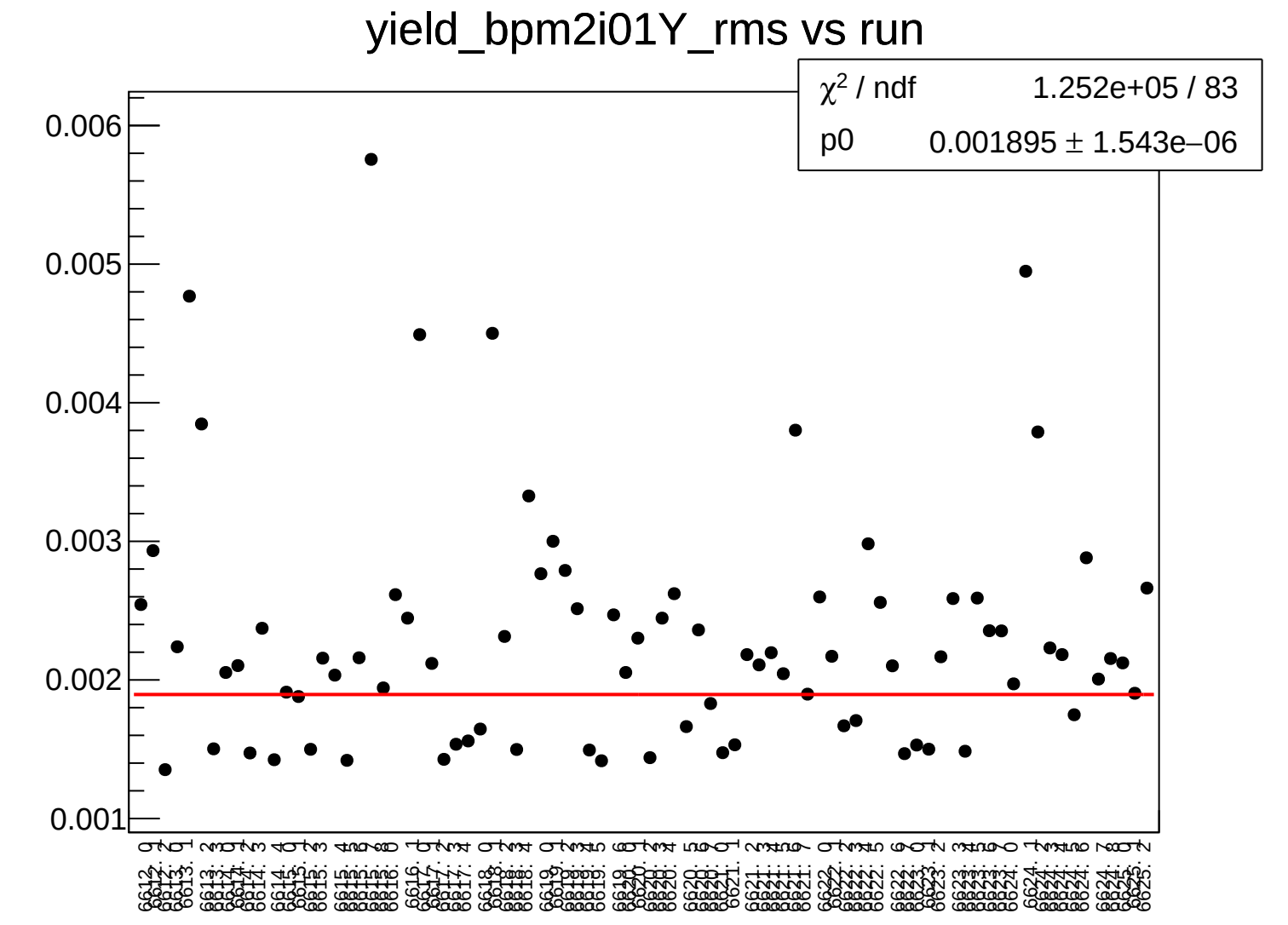

yield_bpm1i06Y_rms vs run
χ² / ndf 8.548e+04 / 83
p0 0.003798 ± 3.053e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

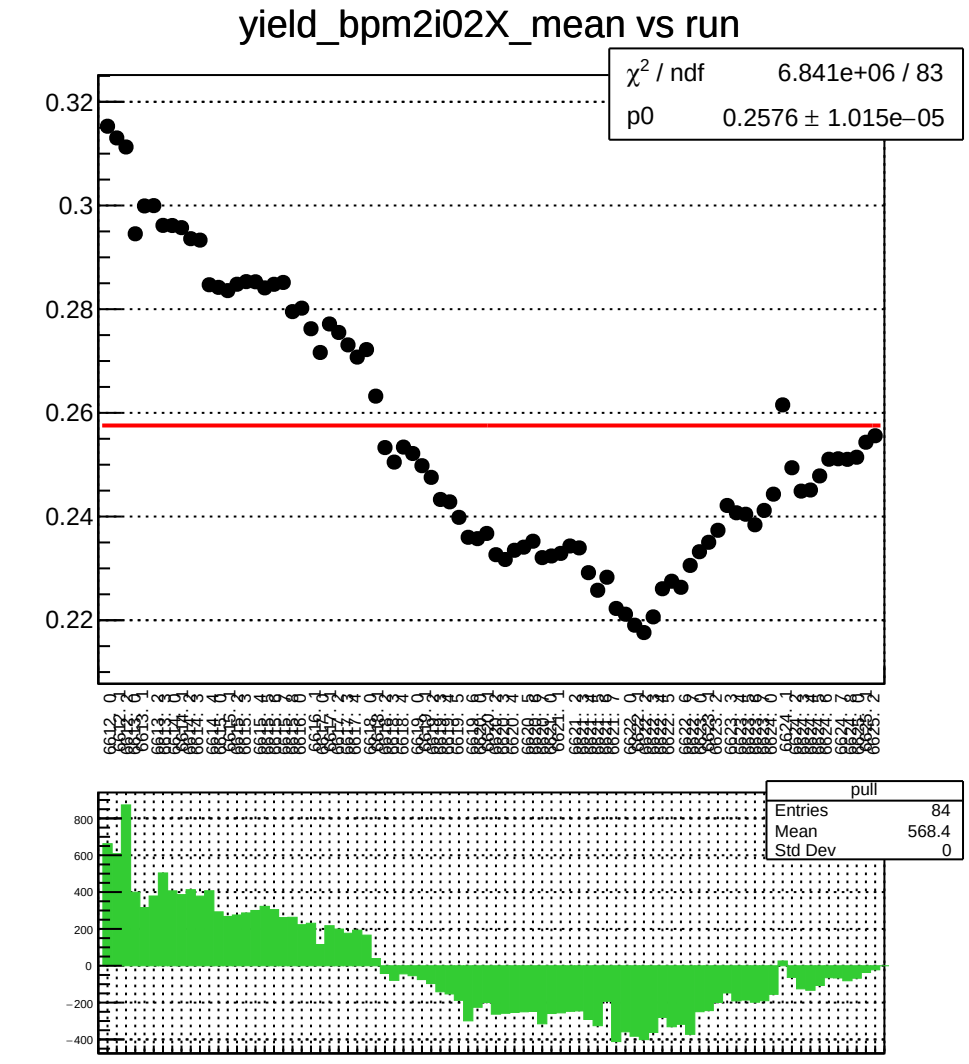

yield_bpm2i01X_mean vs run
χ² / ndf 9.904e+07 / 83
p0 0.1965 ± 1.488e−06
0.23
0.22
0.21
0.2
0.19
0.18
pull
Entries 84
Mean 847.5
Std Dev 0
3000
2000
1000
0
−1000
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

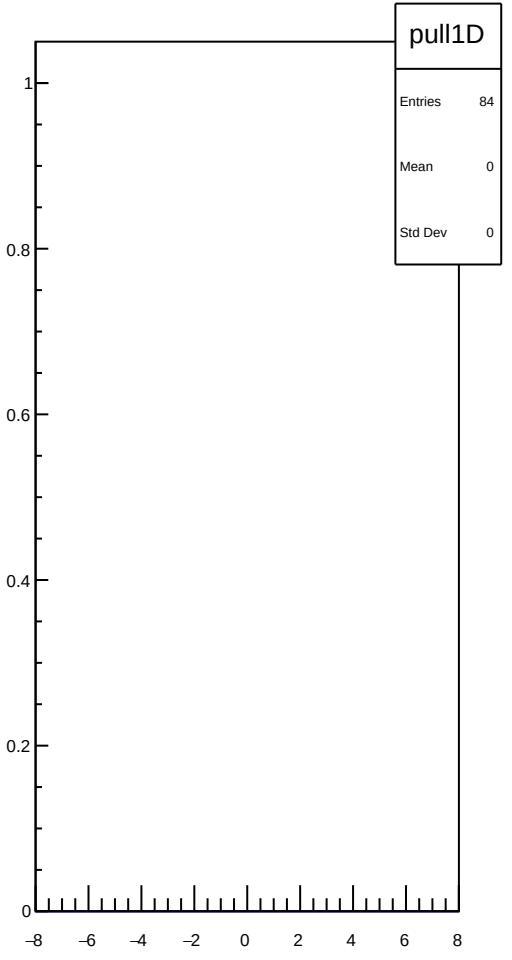

yield_bpm2i01X_rms vs run
χ² / ndf 1.151e+04 / 83
p0 0.001339 ± 1.052e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

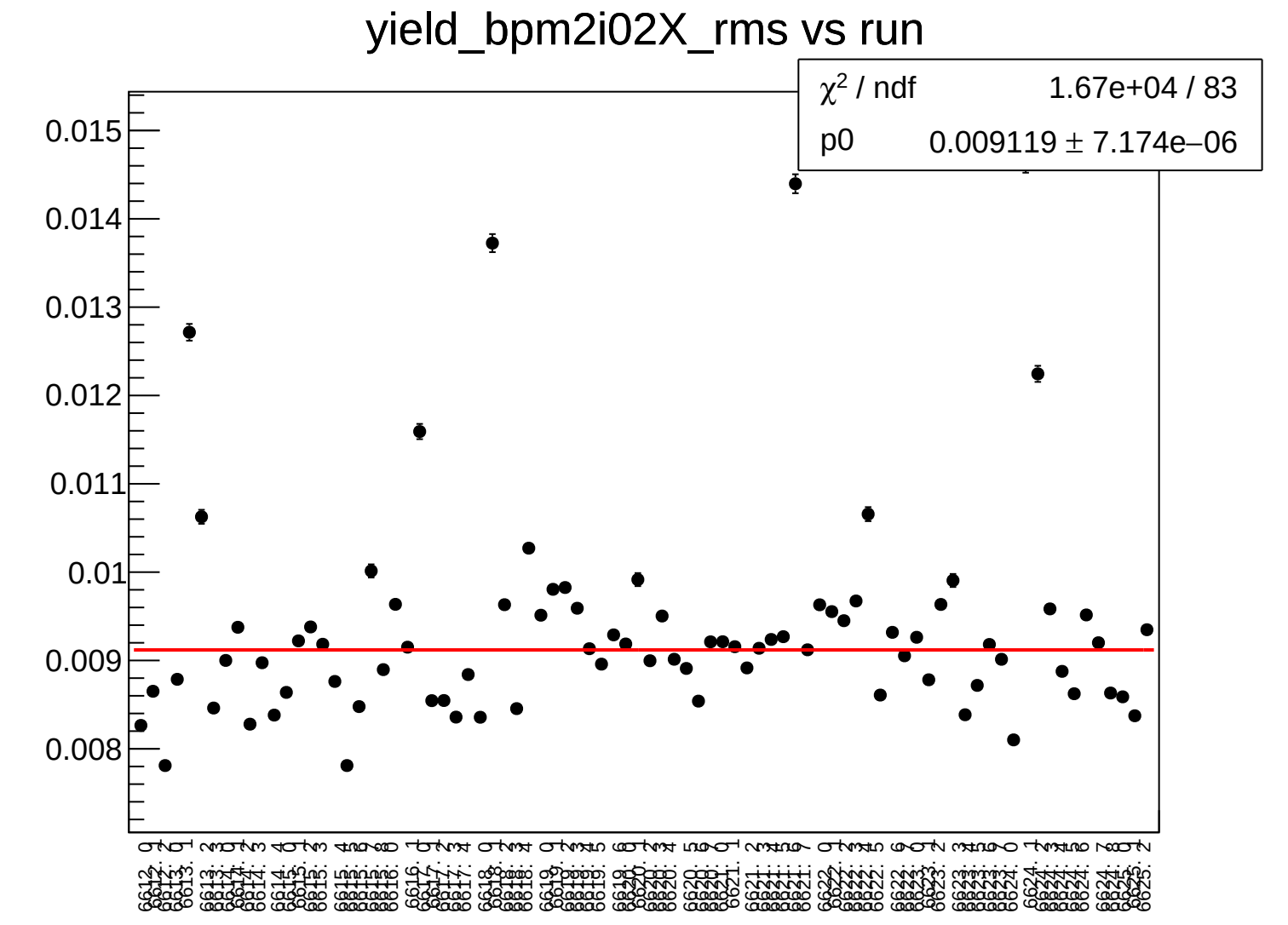

yield_bpm2i01Y_mean vs run
χ² / ndf 4.231e+06 / 83
p0 −3.558 ± 2.182e−06
−3.545
−3.55
−3.555
−3.56
−3.565
−3.57
pull
Entries 84
Mean 2877
Std Dev 0
600
400
200
0
−200
−400
−600

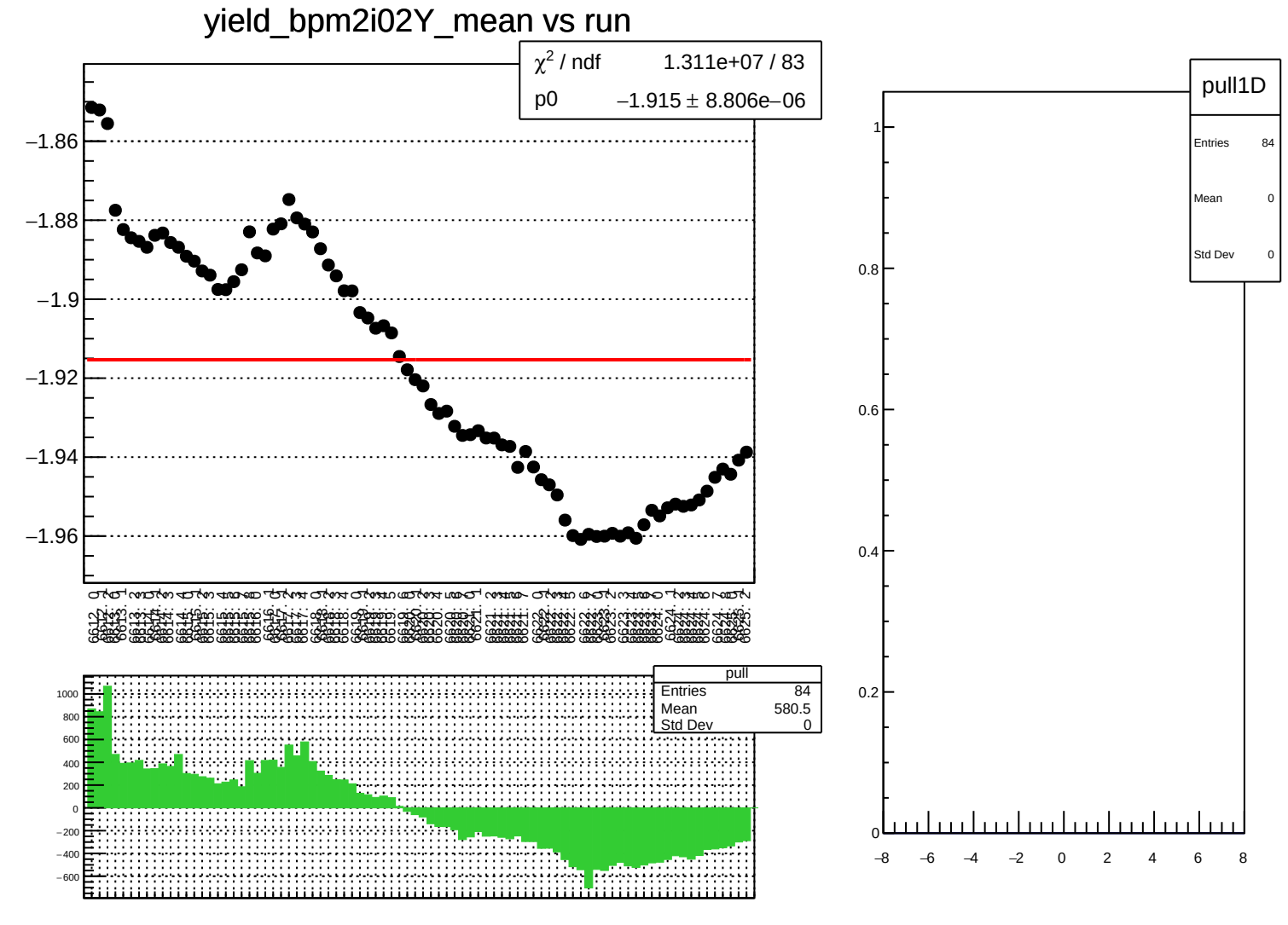

pull1D
Entries 84
Mean −0.0388
Std Dev 3.597
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

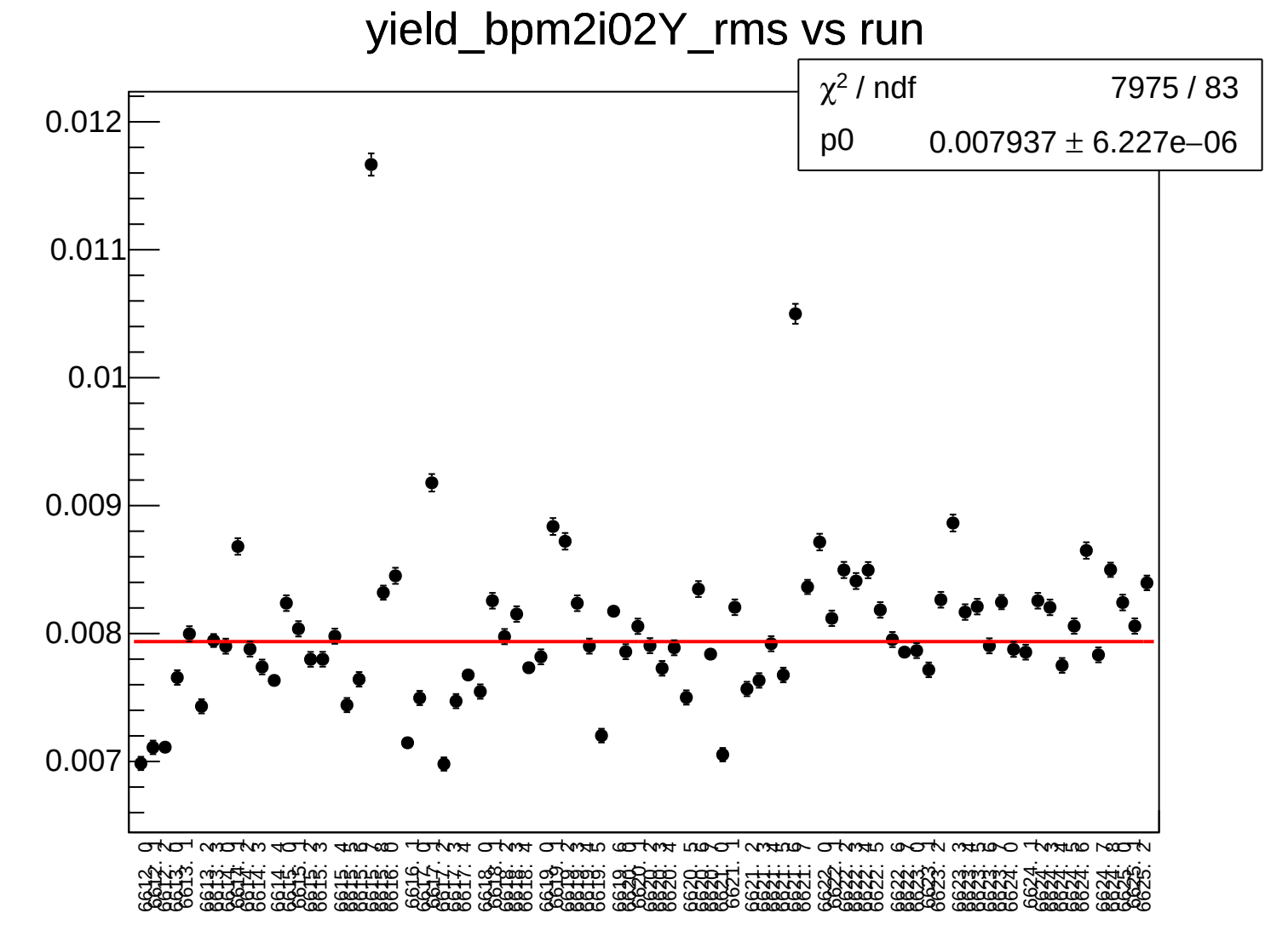

yield_bpm2i01Y_rms vs run
χ² / ndf 1.252e+05 / 83
p0 0.001895 ± 1.543e−06
0.006
0.005
0.004
0.003
0.002
0.001

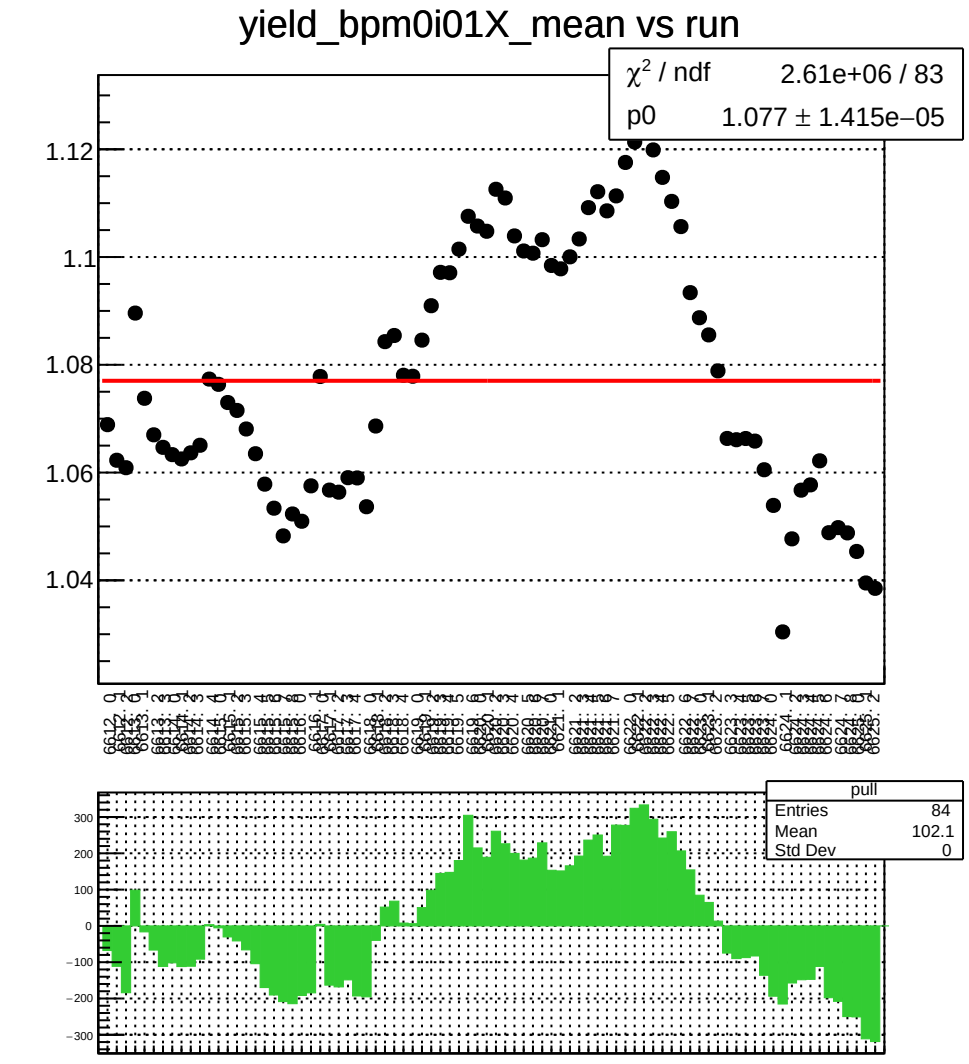

yield_bpm2i02X_mean vs run
χ² / ndf 6.841e+06 / 83
p0 0.2576 ± 1.015e−05
0.32
0.3
0.28
0.26
0.24
0.22
pull
Entries 84
Mean 568.4
Std Dev 0
800
600
400
200
0
−200
−400

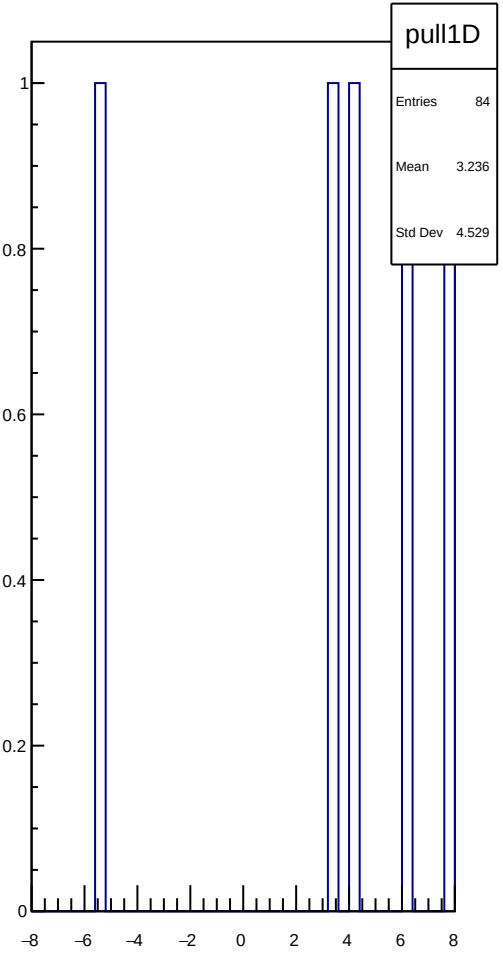

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

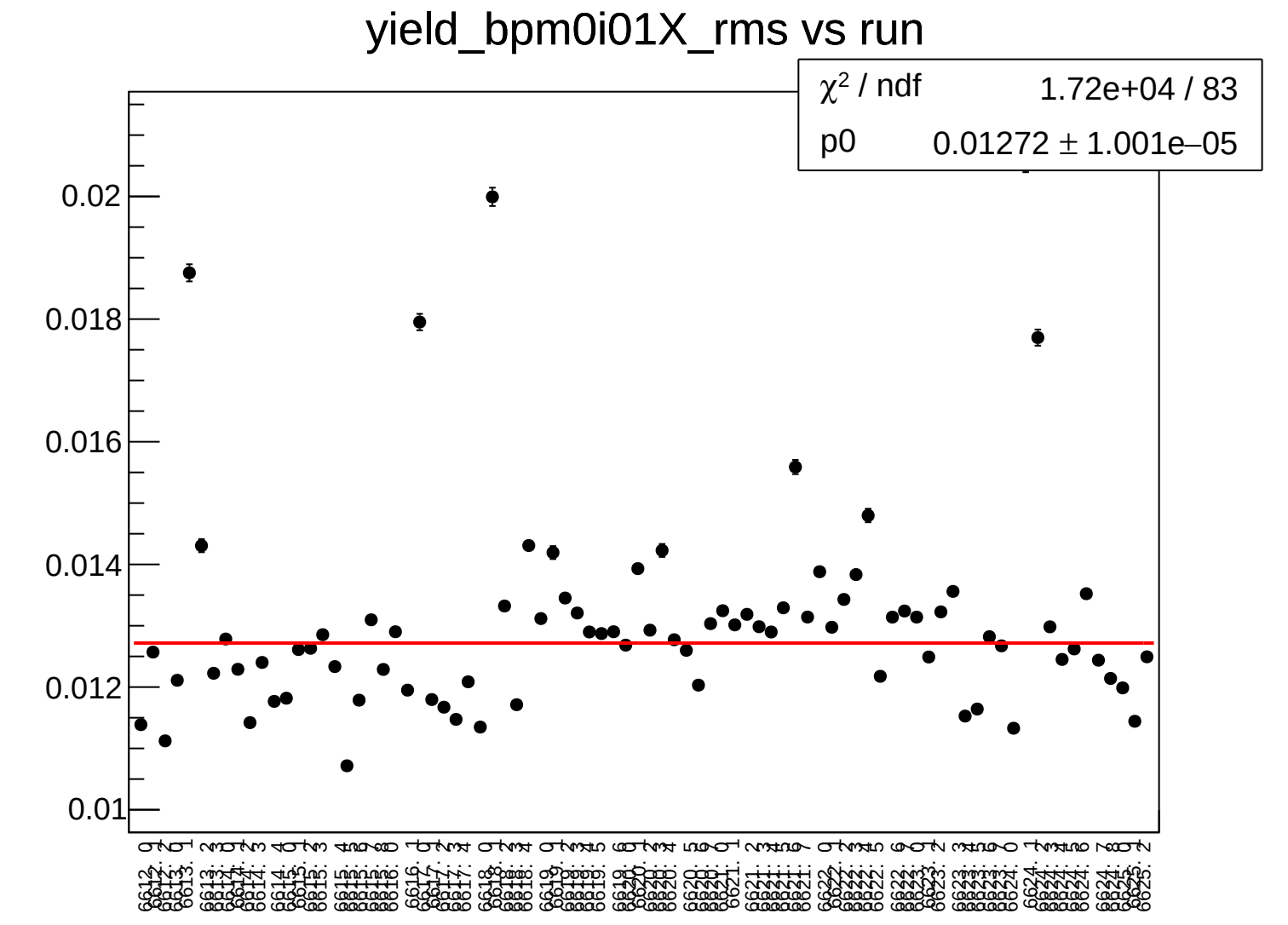

yield_bpm2i02X_rms vs run
χ² / ndf 1.67e+04 / 83
p0 0.009119 ± 7.174e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

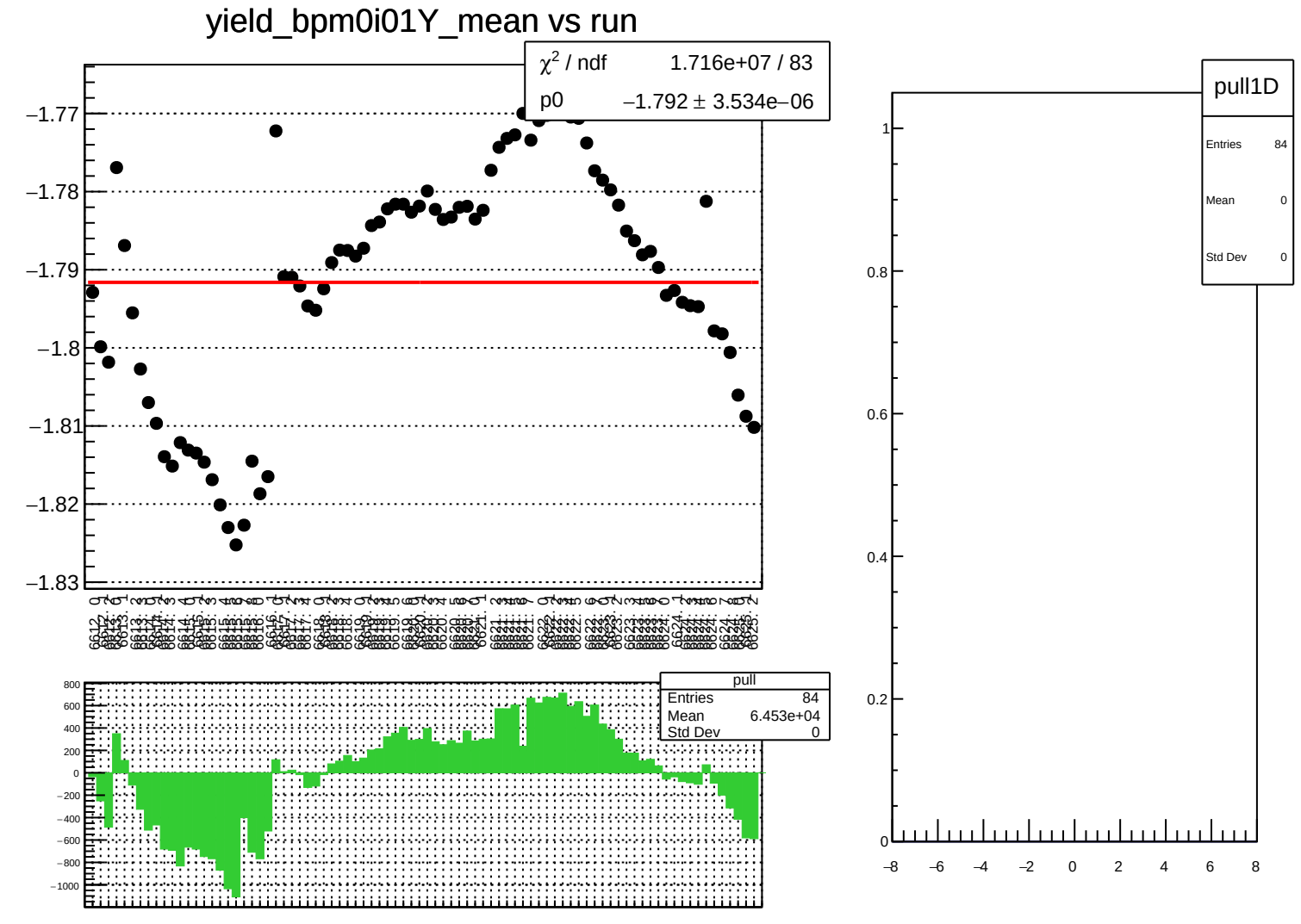

yield_bpm2i02Y_mean vs run
χ² / ndf 1.311e+07 / 83
p0 −1.915 ± 8.806e−06
−1.86
−1.88
−1.9
−1.92
−1.94
−1.96
pull
Entries 84
Mean 580.5
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

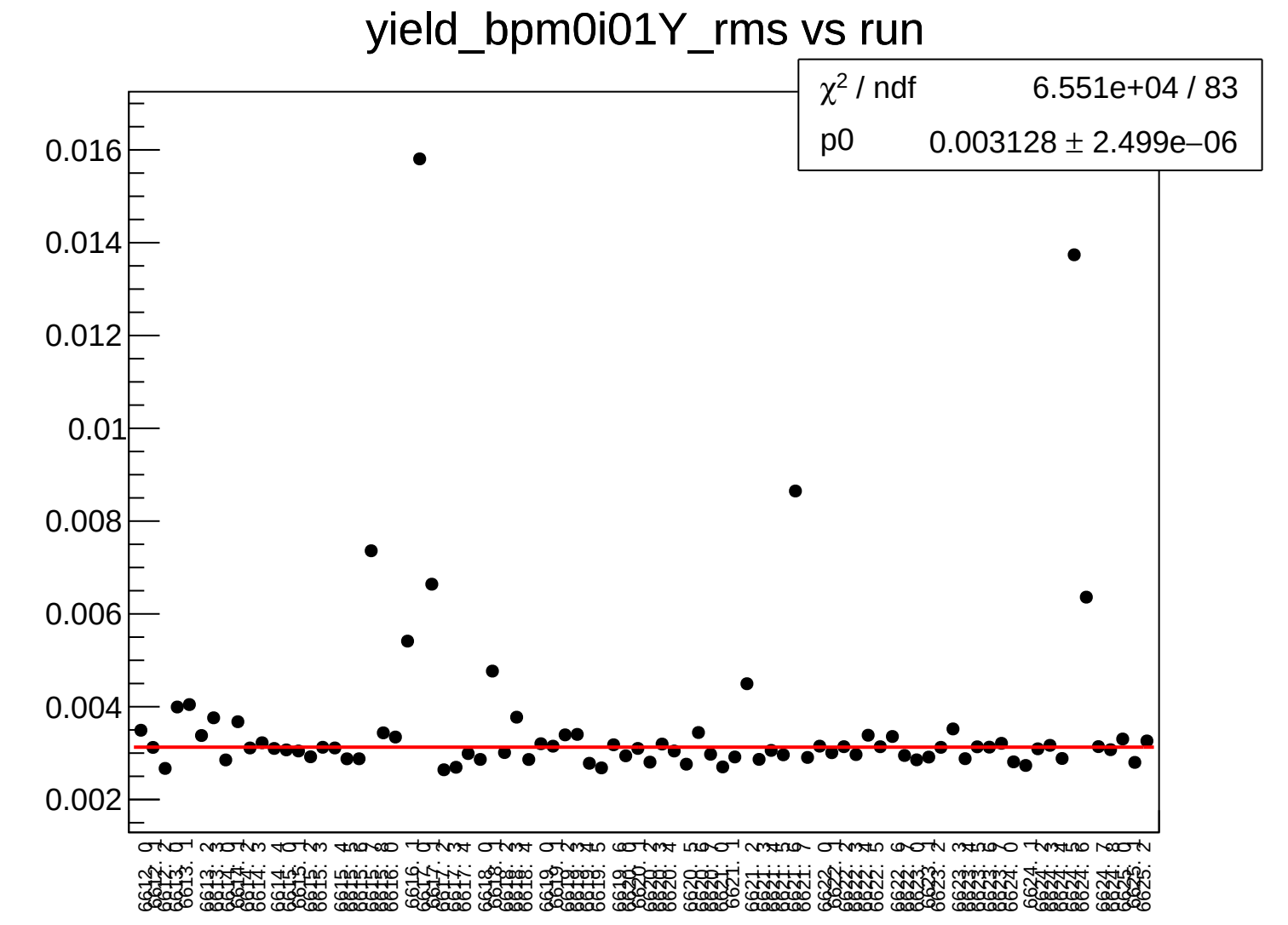

yield_bpm2i02Y_rms vs run
χ^2 / ndf 7975 / 83
p0 0.007937 ± 6.227e−06
0.012
0.011
0.01
0.009
0.008
0.007

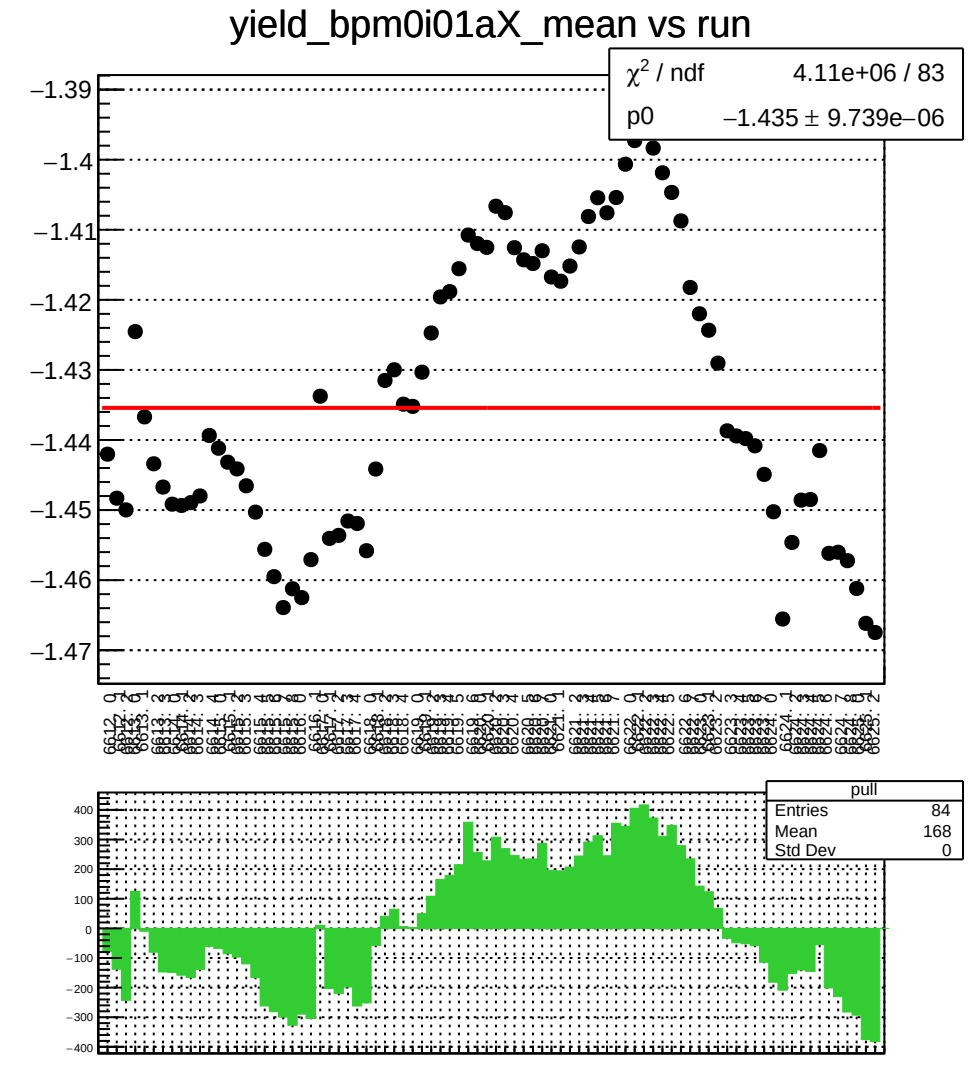

yield_bpm0i01X_mean vs run
χ² / ndf 2.61e+06 / 83
p0 1.077 ± 1.415e−05
1.12
1.1
1.08
1.06
1.04
pull
Entries 84
Mean 102.1
Std Dev 0
300
200
100
0
−100
−200
−300

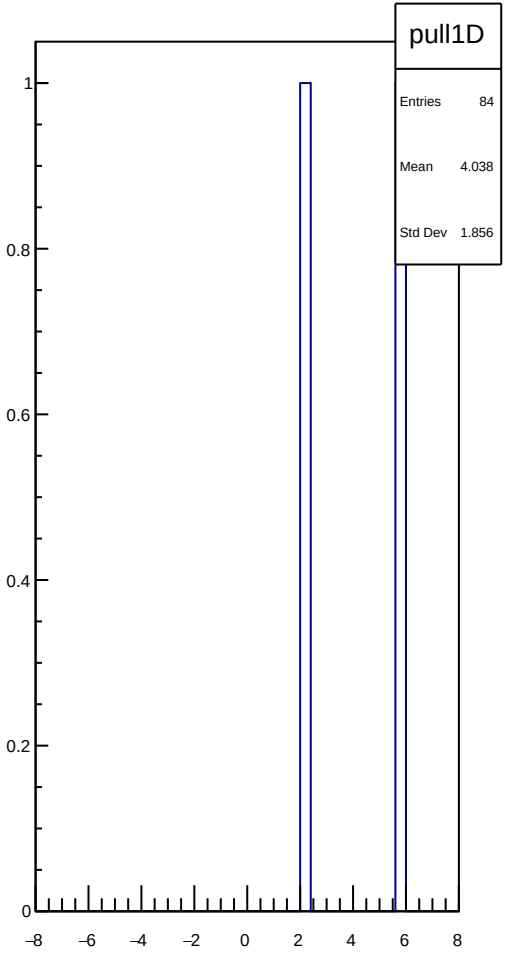

pull1D
Entries 84
Mean 3.236
Std Dev 4.529
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

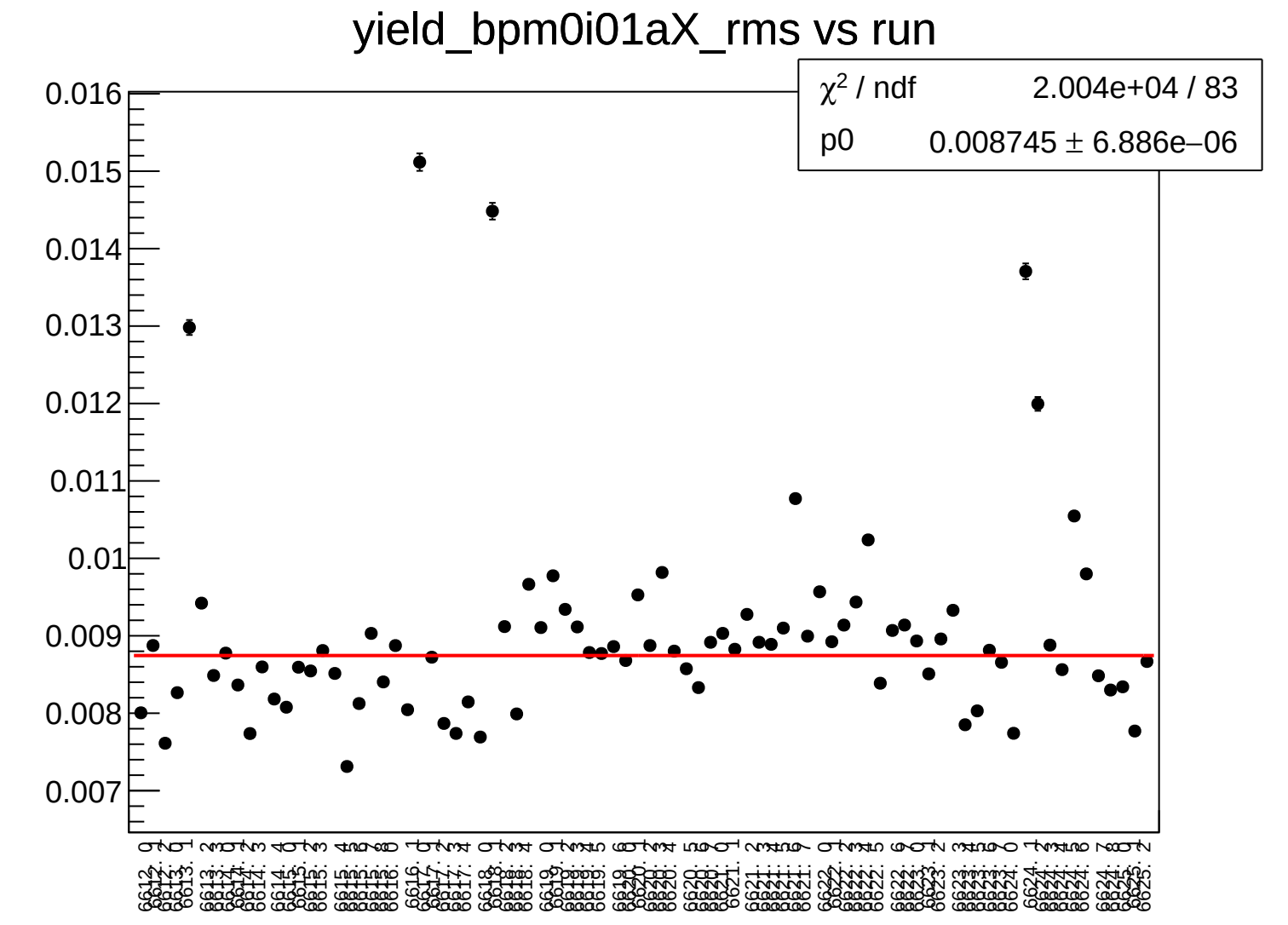

yield_bpm0i01X_rms vs run
χ² / ndf 1.72e+04 / 83
p0 0.01272 ± 1.001e−05
0.02
0.018
0.016
0.014
0.012
0.01

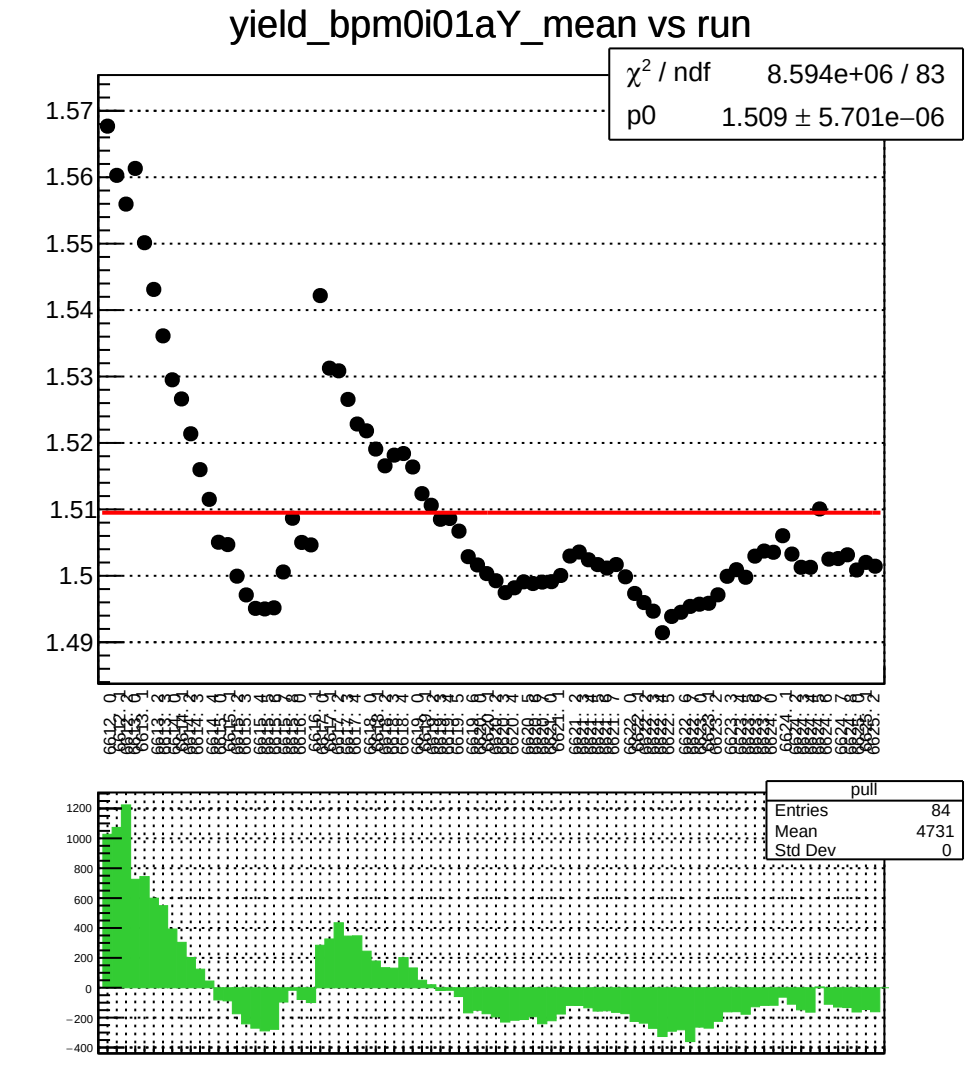

yield_bpm0i01Y_mean vs run
χ² / ndf 1.716e+07 / 83
p0 −1.792 ± 3.534e−06
−1.77
−1.78
−1.79
−1.8
−1.81
−1.82
−1.83
pull
Entries 84
Mean 6.453e+04
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

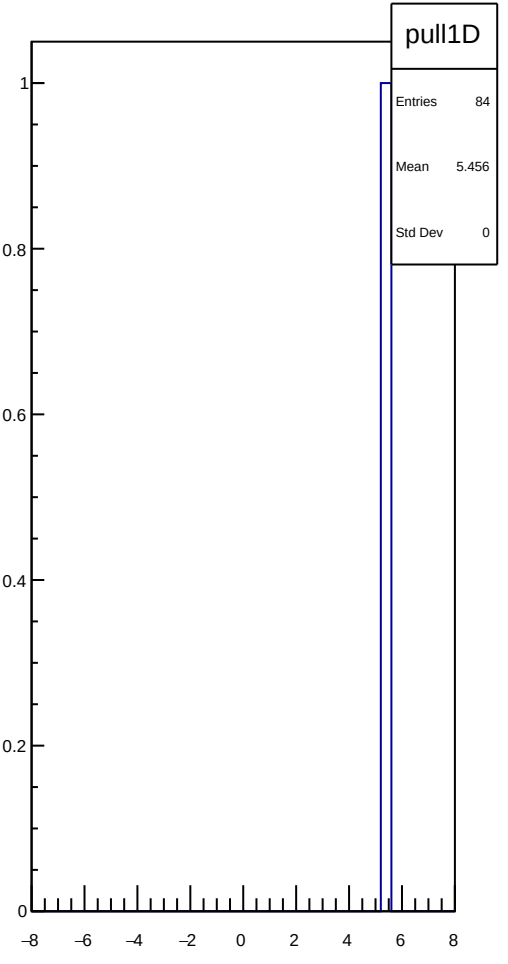

yield_bpm0i01Y_rms vs run
χ² / ndf 6.551e+04 / 83
p0 0.003128 ± 2.499e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

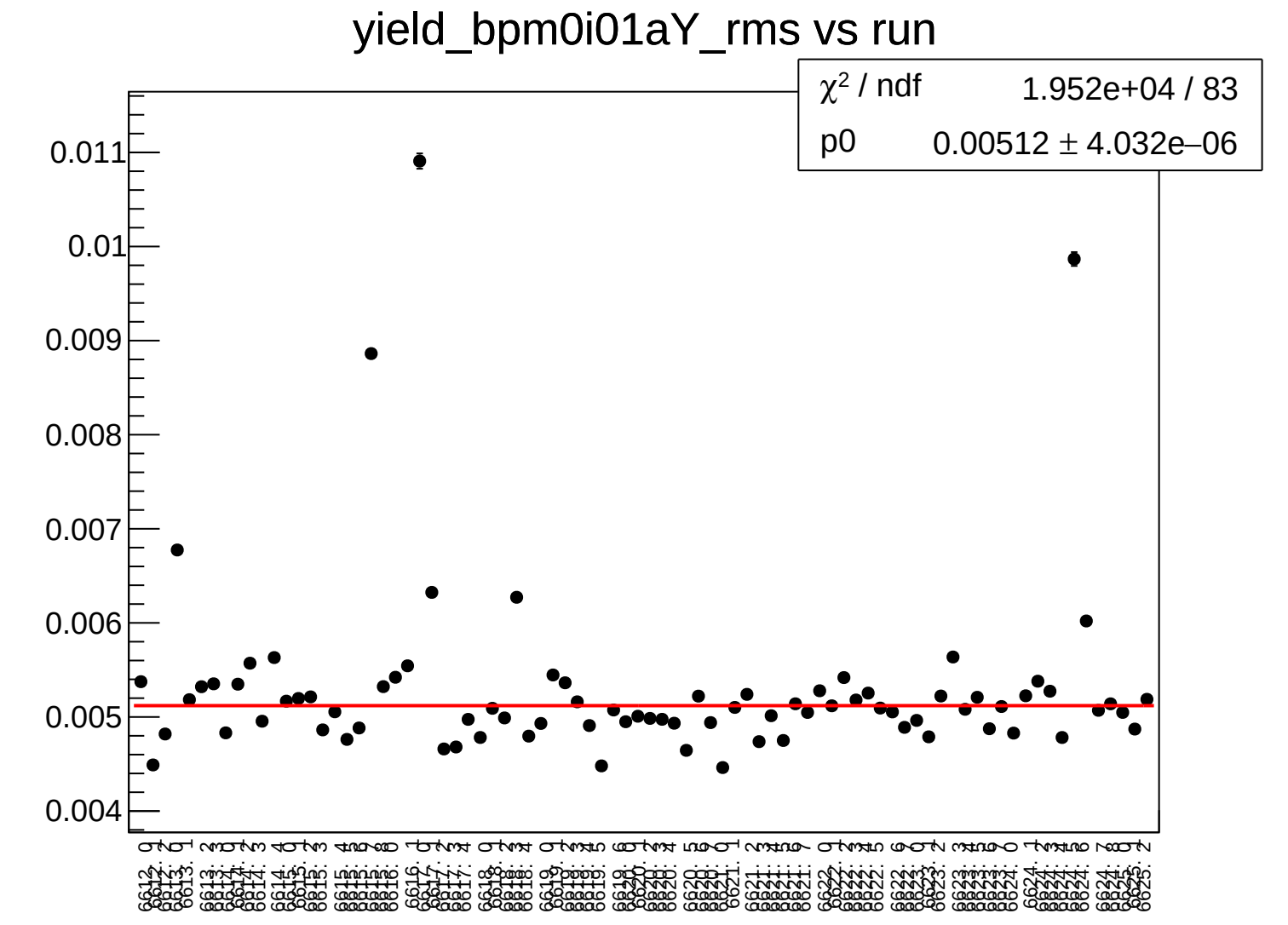

yield_bpm0i01aX_mean vs run
χ² / ndf 4.11e+06 / 83
p0 −1.435 ± 9.739e−06
−1.39
−1.4
−1.41
−1.42
−1.43
−1.44
−1.45
−1.46
−1.47
pull
Entries 84
Mean 168
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

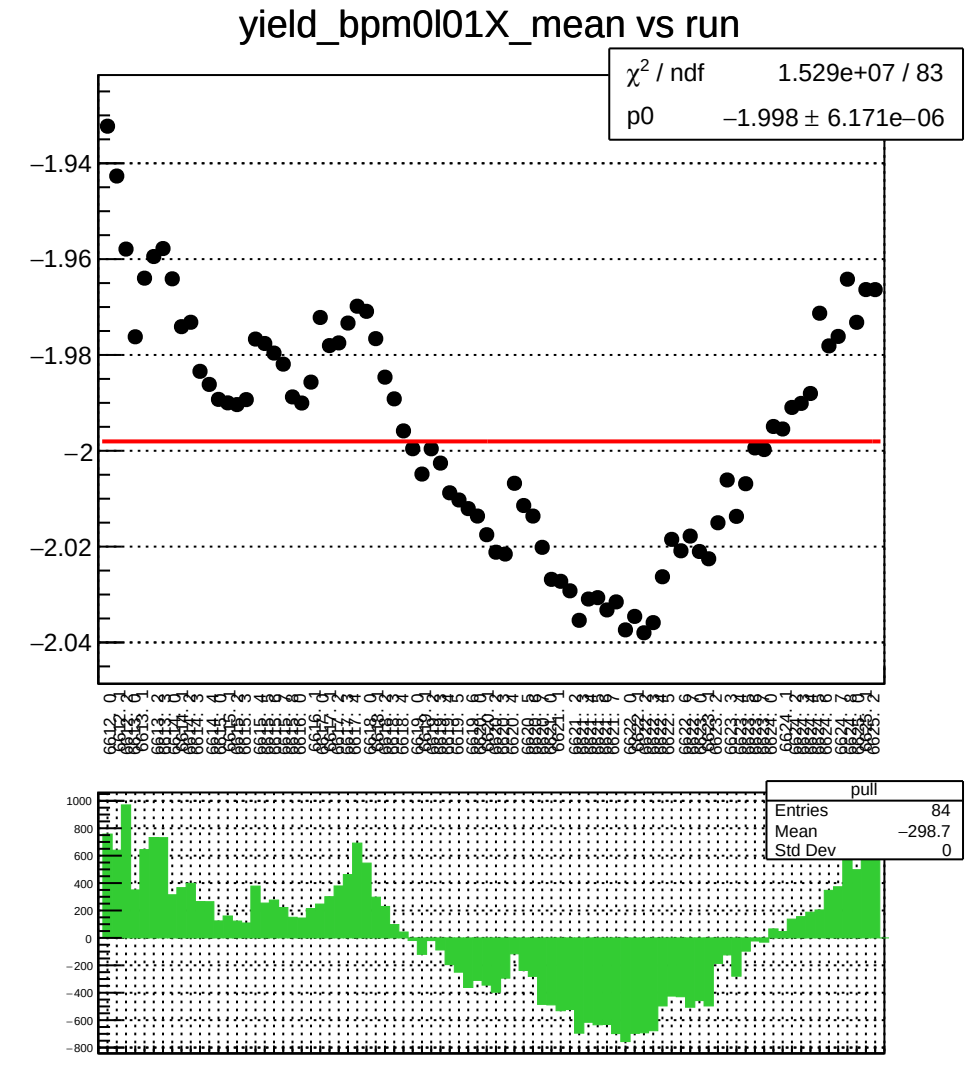

pull1D
Entries 84
Mean 4.038
Std Dev 1.856
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

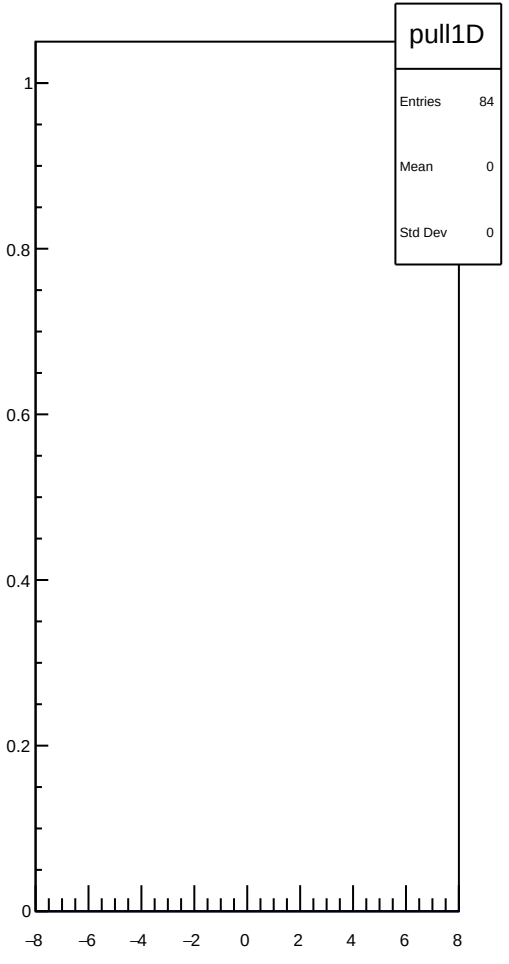

yield_bpm0i01aX_rms vs run
χ² / ndf 2.004e+04 / 83
p0 0.008745 ± 6.886e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

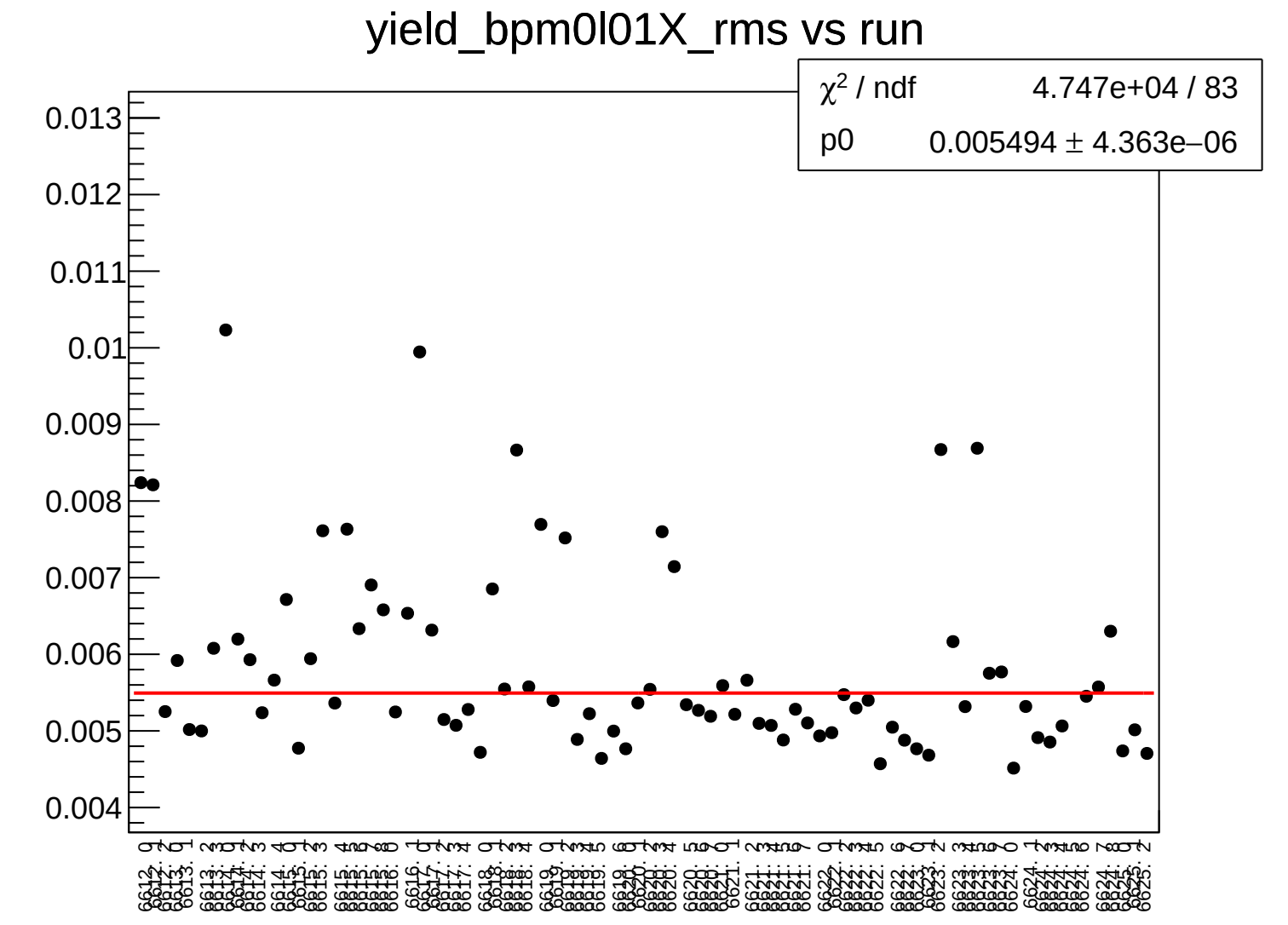

yield_bpm0i01aY_mean vs run
χ² / ndf 8.594e+06 / 83
p0 1.509 ± 5.701e−06
pull
Entries 84
Mean 4731
Std Dev 0

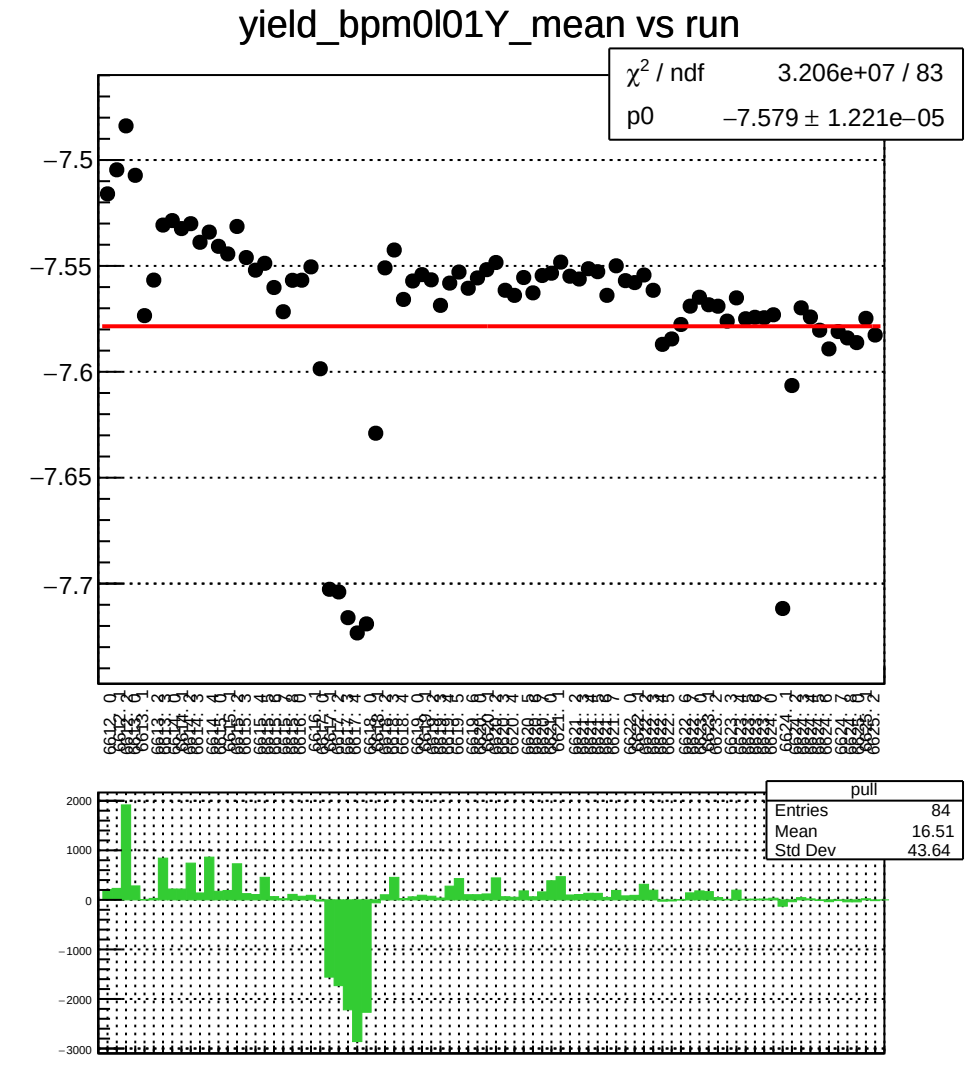

pull1D
Entries 84
Mean 5.456
Std Dev 0

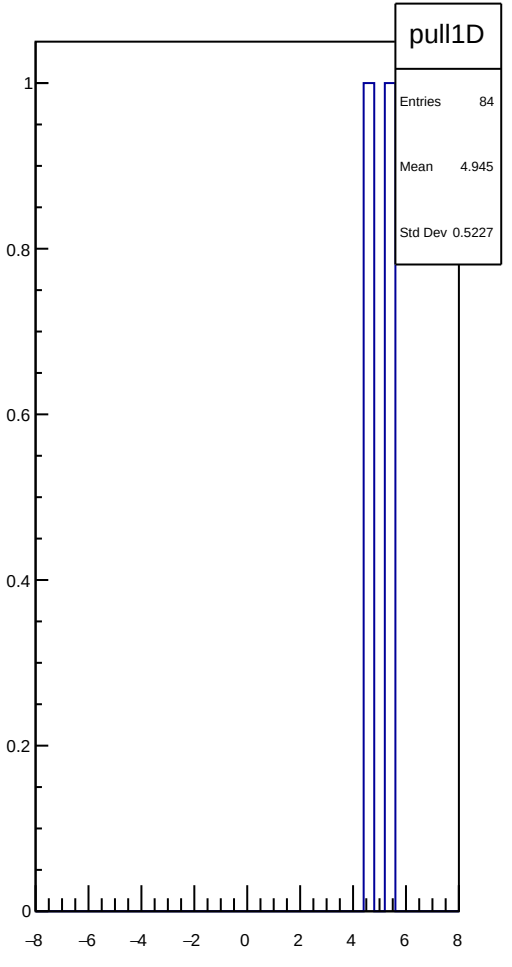

yield_bpm0i01aY_rms vs run
χ² / ndf 1.952e+04 / 83
p0 0.00512 ± 4.032e–06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

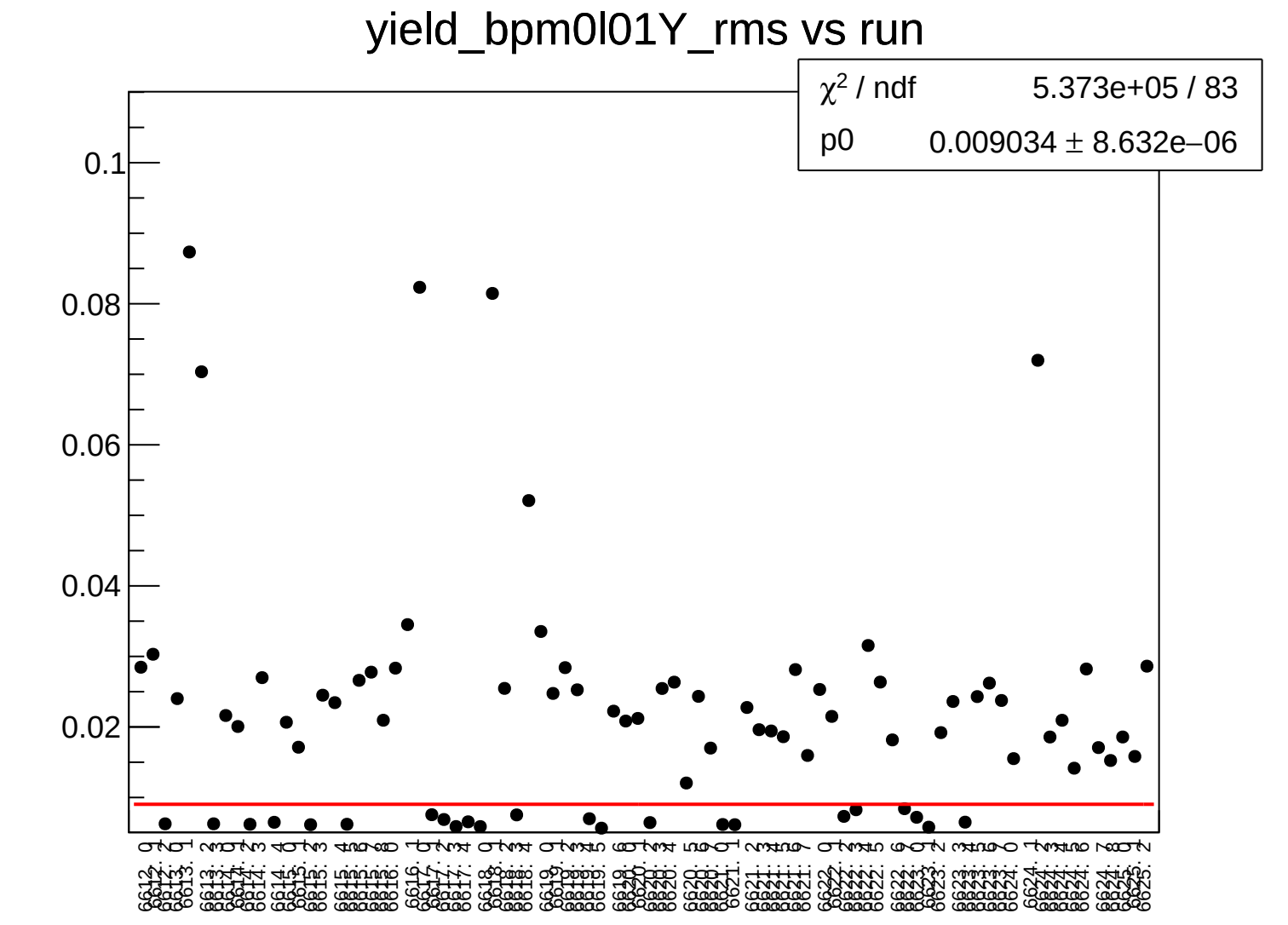

yield_bpm0l01X_mean vs run
χ² / ndf 1.529e+07 / 83
p0 −1.998 ± 6.171e−06
−1.94
−1.96
−1.98
−2
−2.02
−2.04
pull
Entries 84
Mean −298.7
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

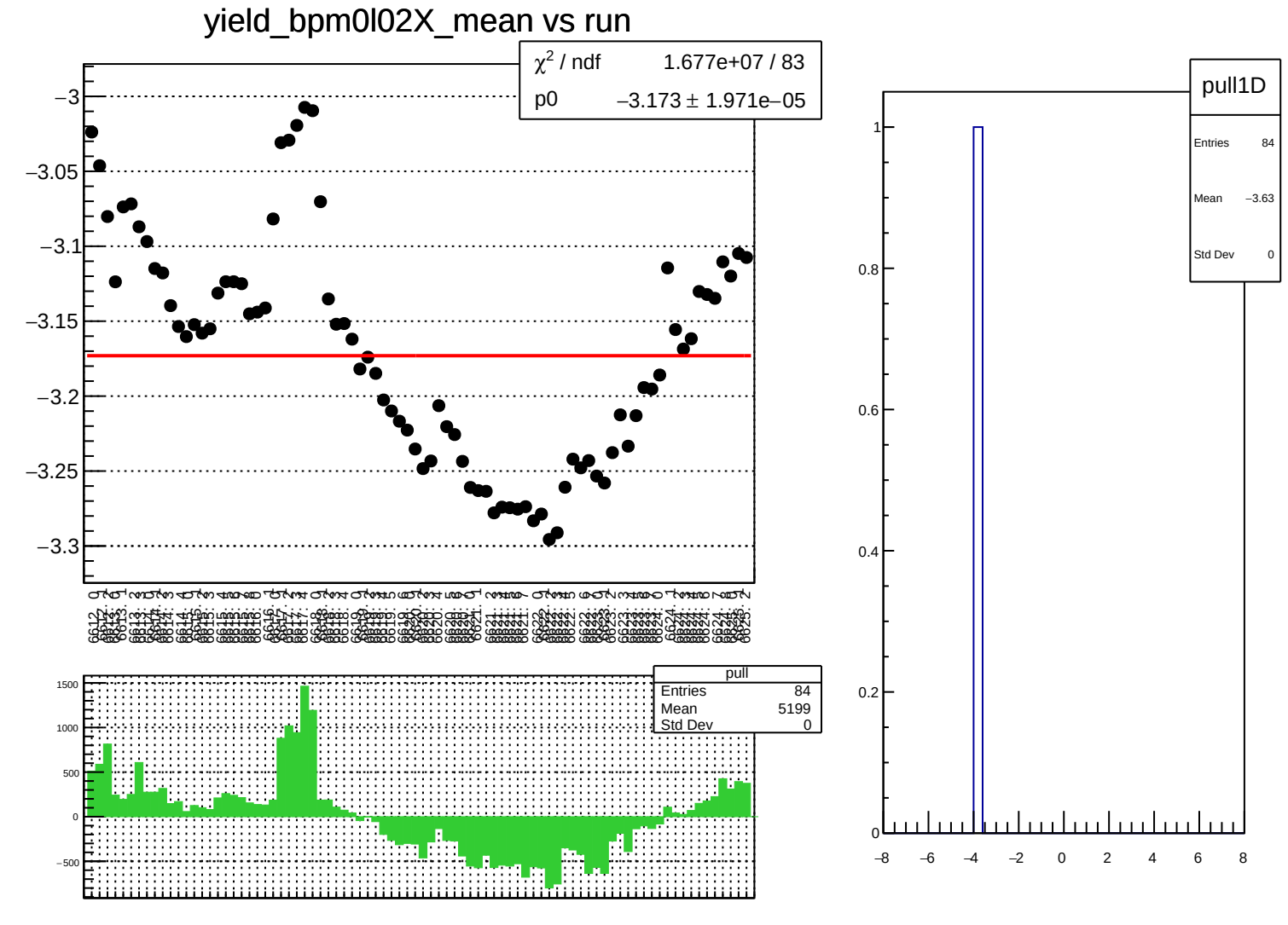

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

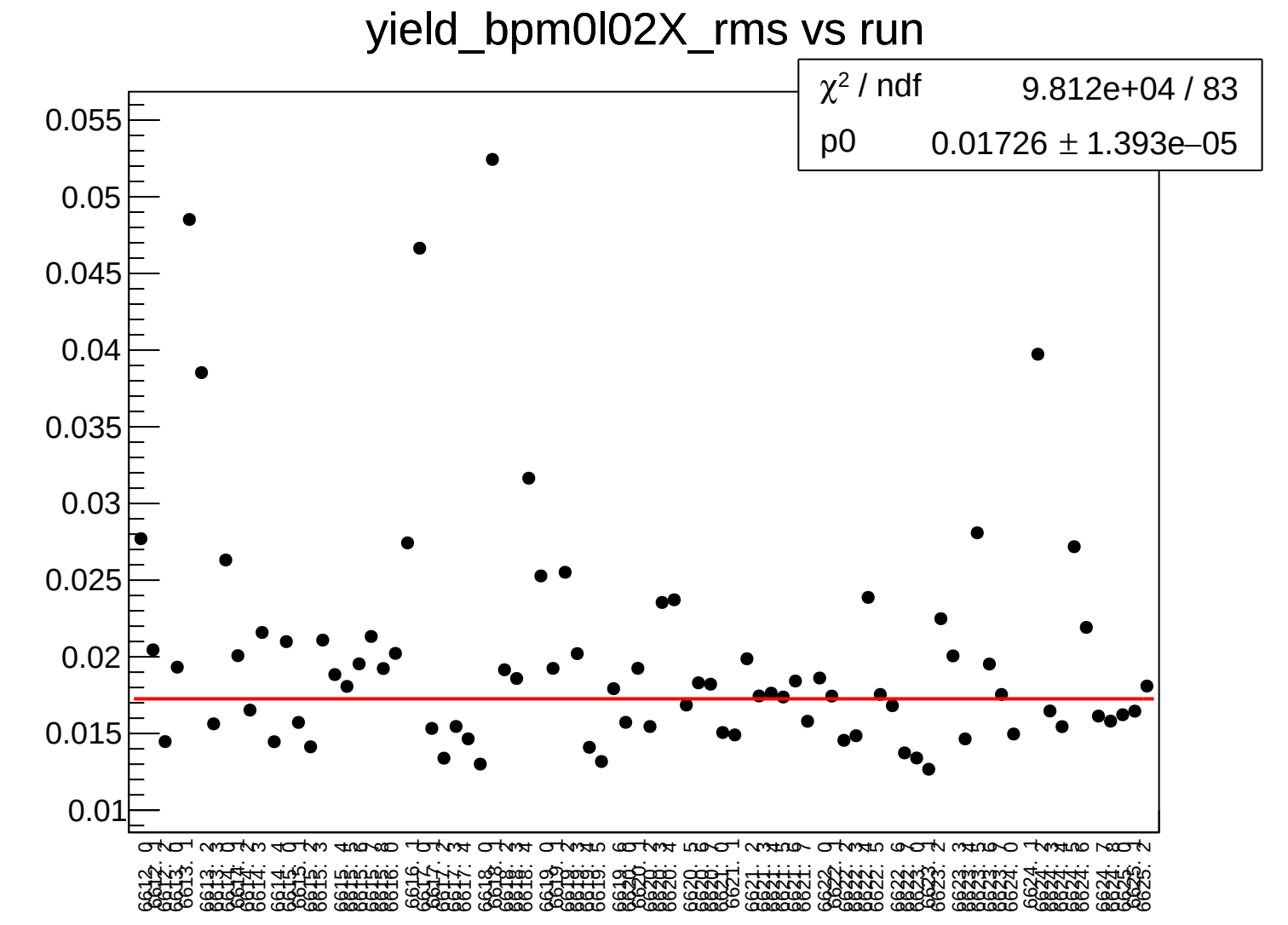

yield_bpm0l01X_rms vs run
χ² / ndf 4.747e+04 / 83
p0 0.005494 ± 4.363e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

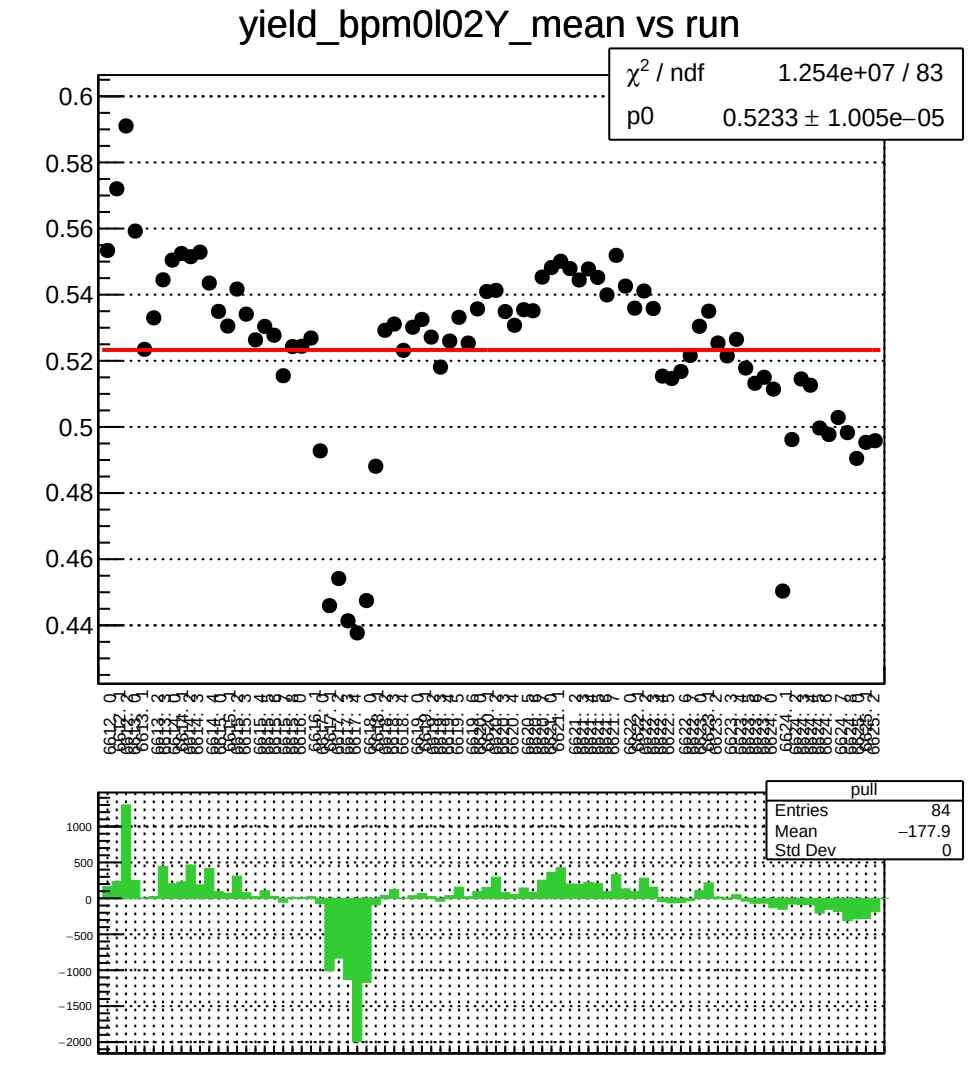

yield_bpm0l01Y_mean vs run
χ² / ndf 3.206e+07 / 83
p0 −7.579 ± 1.221e−05
−7.5
−7.55
−7.6
−7.65
−7.7
pull
Entries 84
Mean 16.51
Std Dev 43.64
2000
1000
0
−1000
−2000
−3000

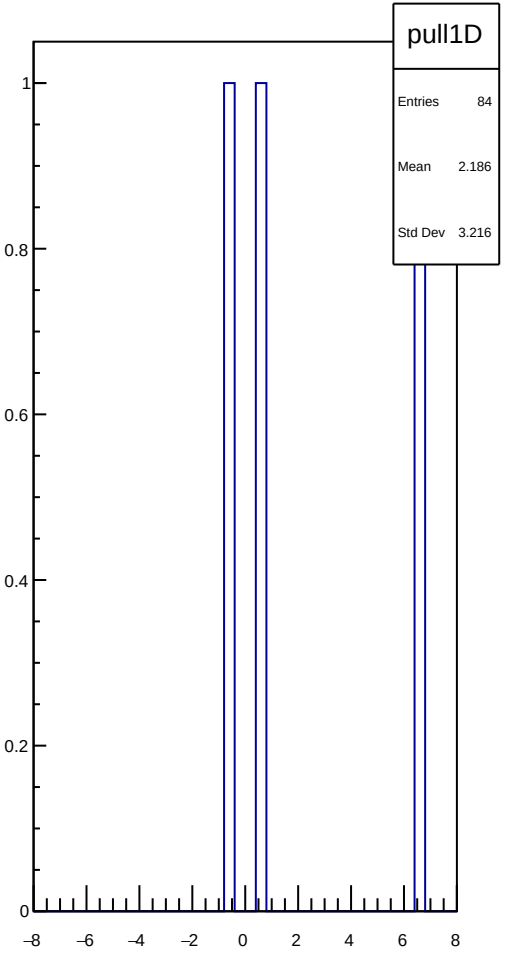

pull1D
Entries 84
Mean 4.945
Std Dev 0.5227
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

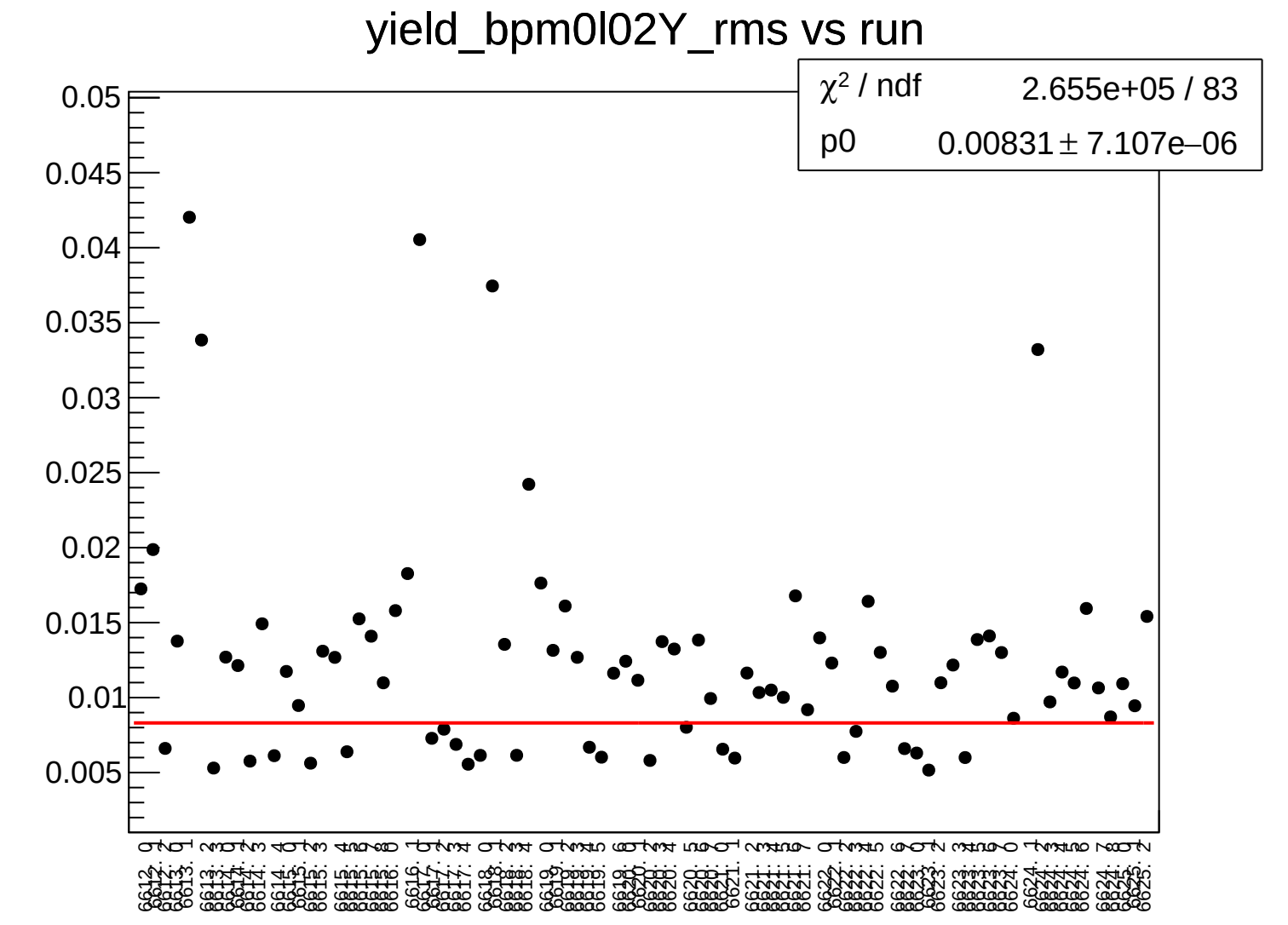

yield_bpm0l01Y_rms vs run
χ^2 / ndf 5.373e+05 / 83
p0 0.009034 ± 8.632e−06
0.1
0.08
0.06
0.04
0.02

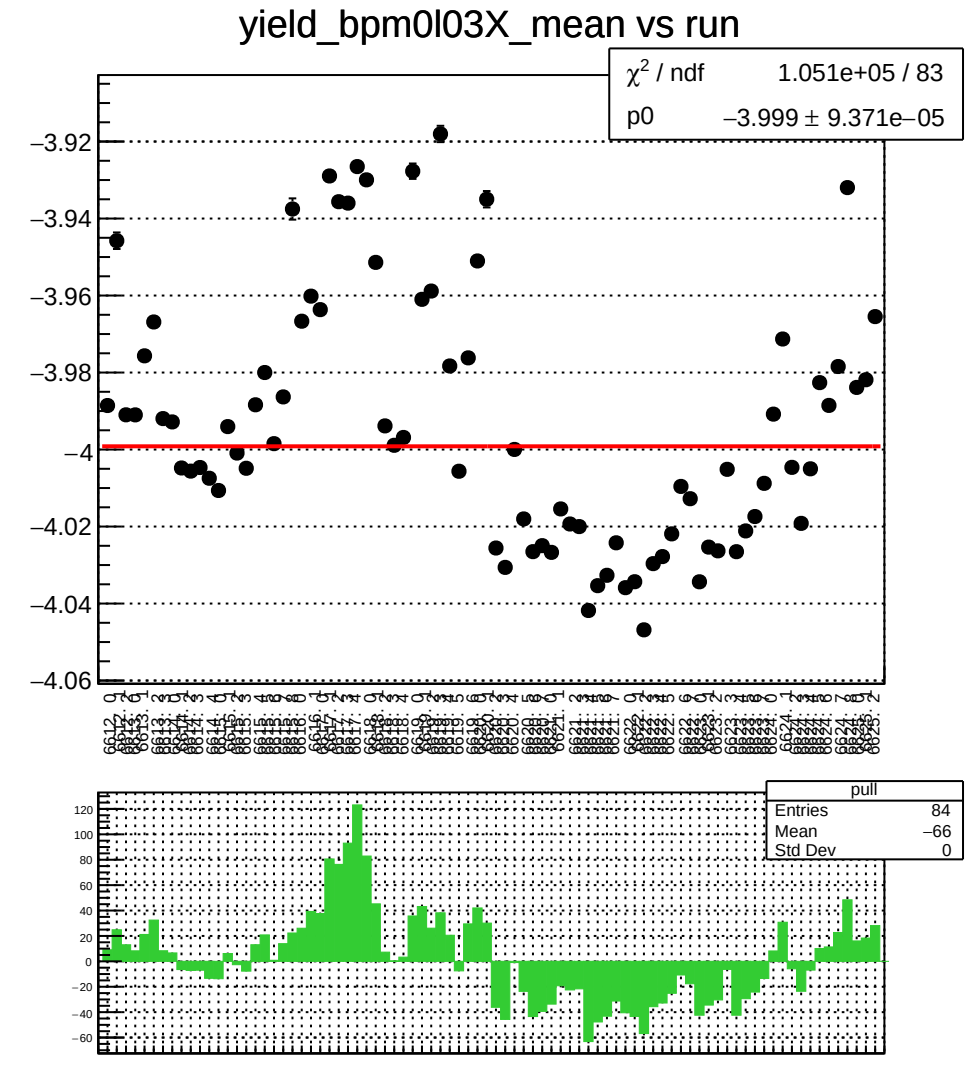

yield_bpm0l02X_mean vs run
χ² / ndf 1.677e+07 / 83
p0 −3.173 ± 1.971e−05
−3
−3.05
−3.1
−3.15
−3.2
−3.25
−3.3
pull
Entries 84
Mean 5199
Std Dev 0
1500
1000
500
0
−500
pull1D
Entries 84
Mean −3.63
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

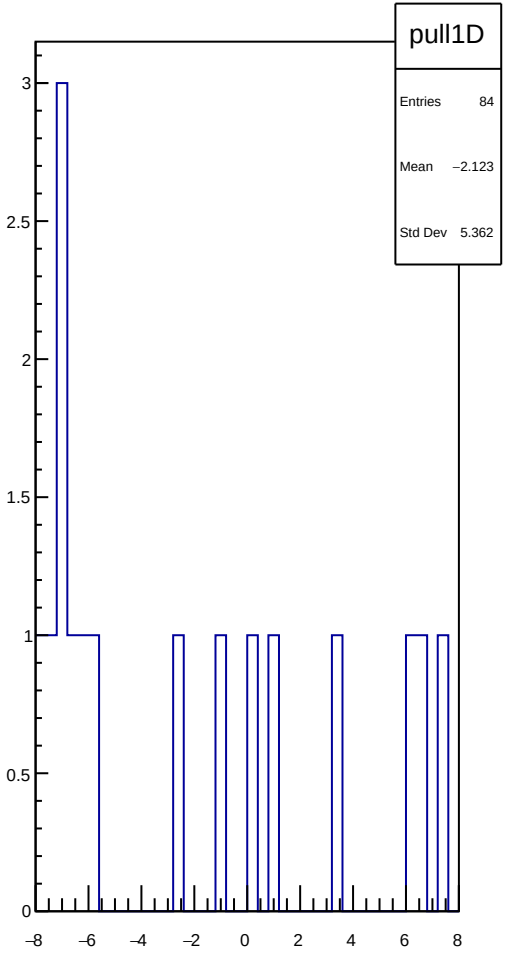

yield_bpm0l02X_rms vs run
χ² / ndf 9.812e+04 / 83
p0 0.01726 ± 1.393e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

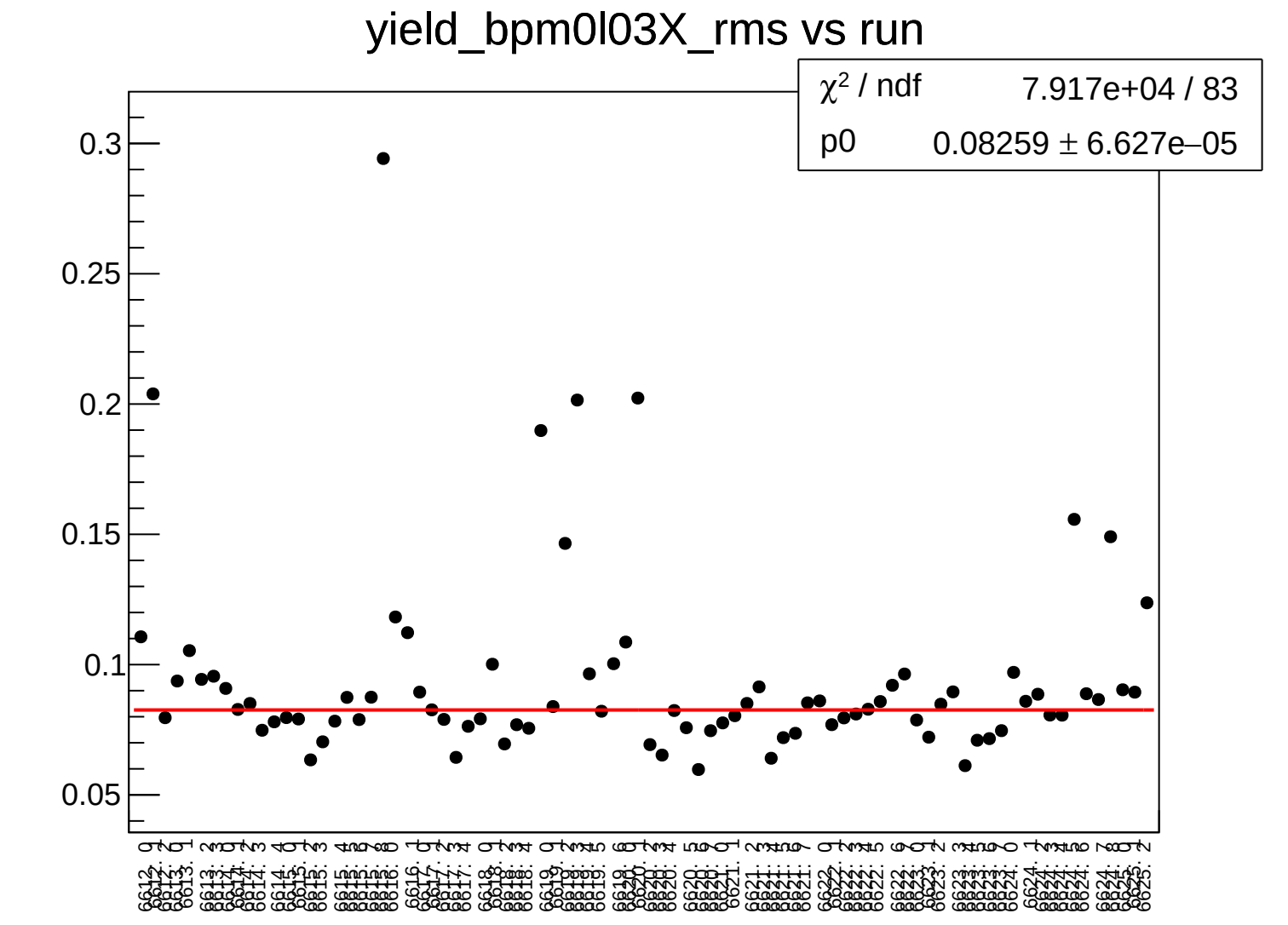

yield_bpm0l02Y_mean vs run
χ² / ndf 1.254e+07 / 83
p0 0.5233 ± 1.005e−05
pull
Entries 84
Mean −177.9
Std Dev 0

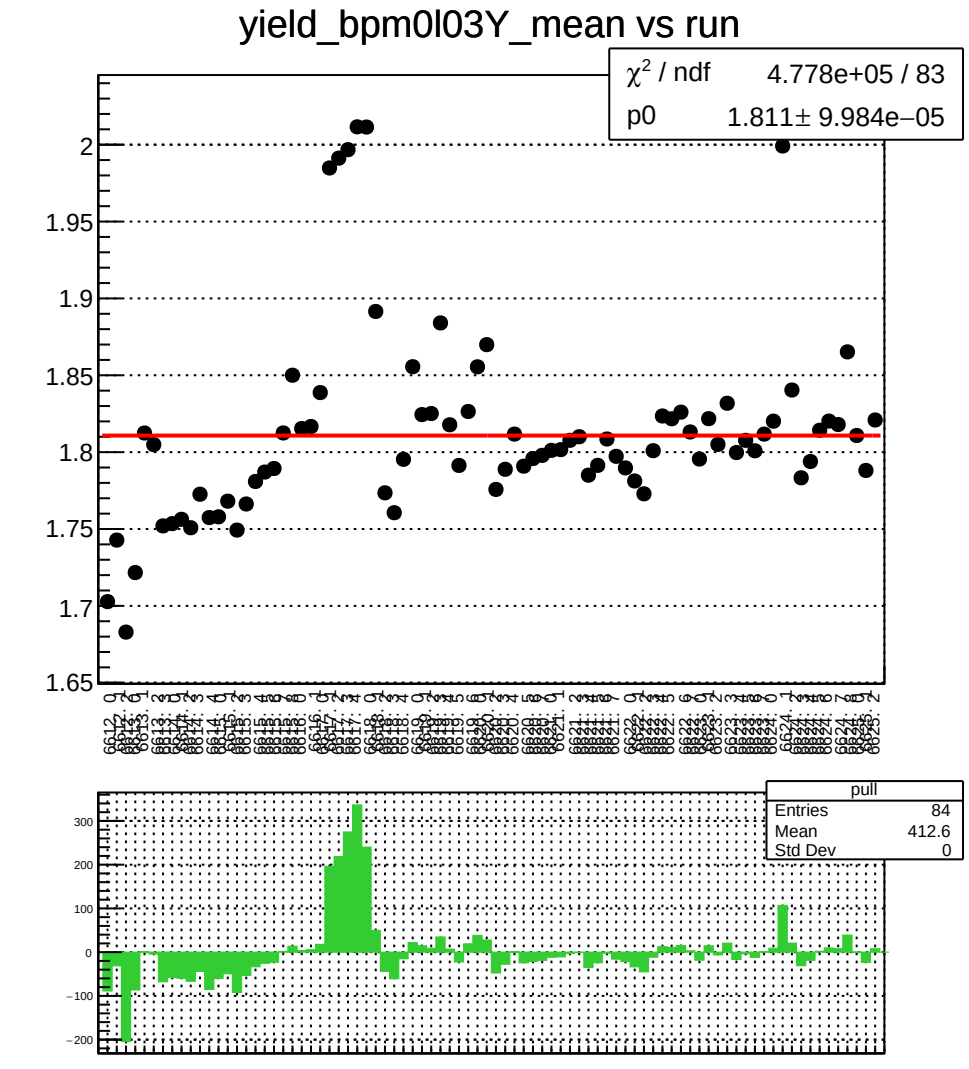

pull1D
Entries 84
Mean 2.186
Std Dev 3.216

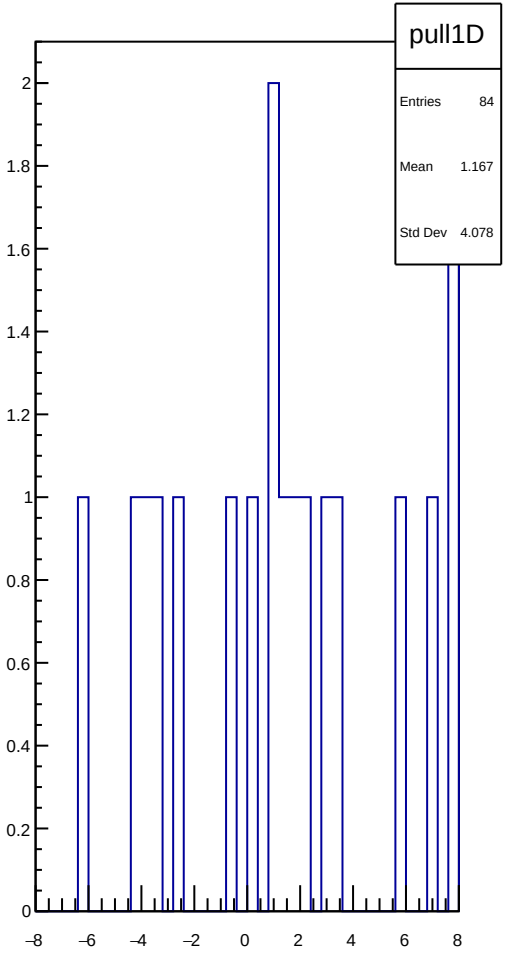

yield_bpm0l02Y_rms vs run
χ² / ndf 2.655e+05 / 83
p0 0.00831 ± 7.107e–06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

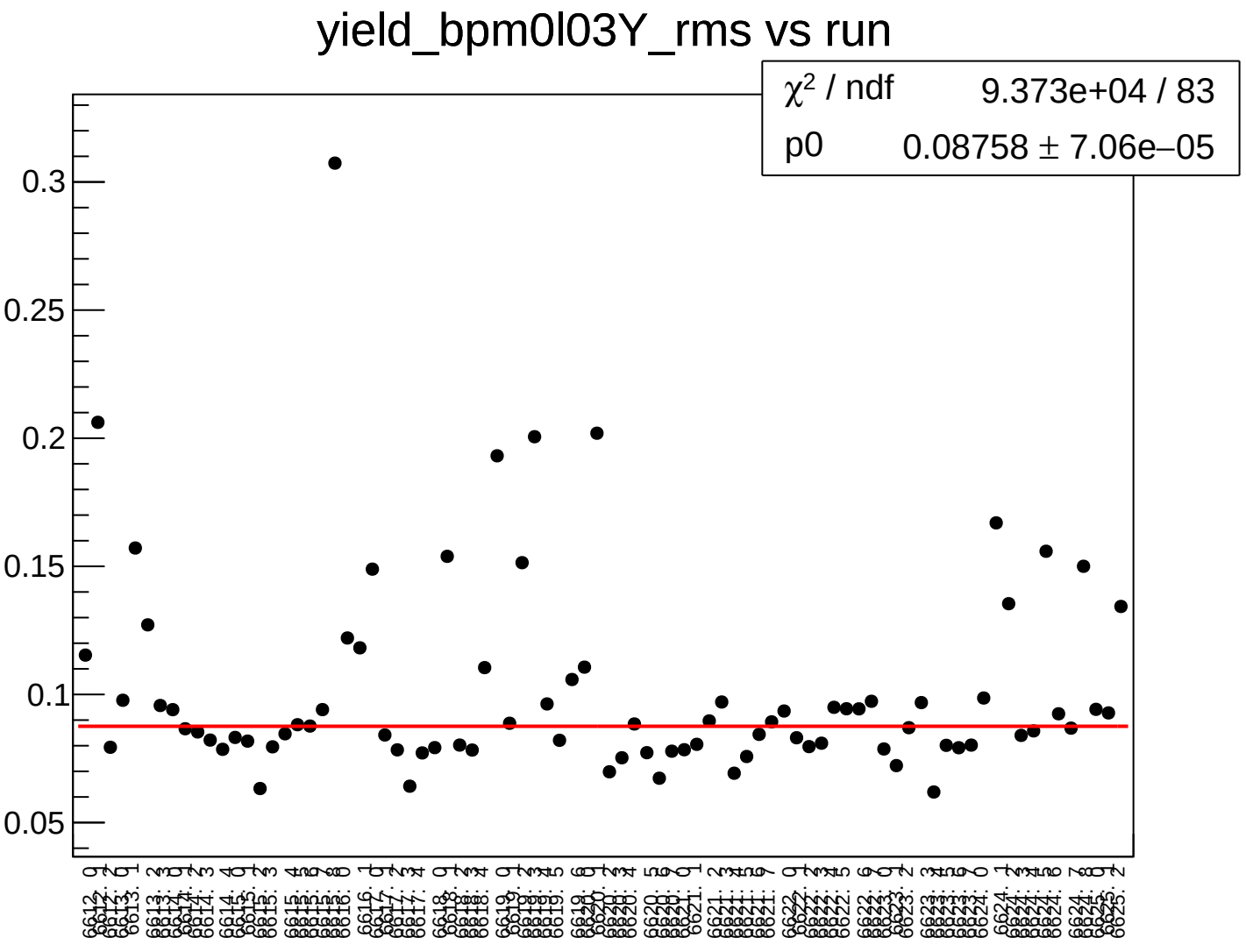

yield_bpm0l03X_mean vs run
χ² / ndf 1.051e+05 / 83
p0 −3.999 ± 9.371e−05
−3.92
−3.94
−3.96
−3.98
−4
−4.02
−4.04
−4.06
pull
Entries 84
Mean −66
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60

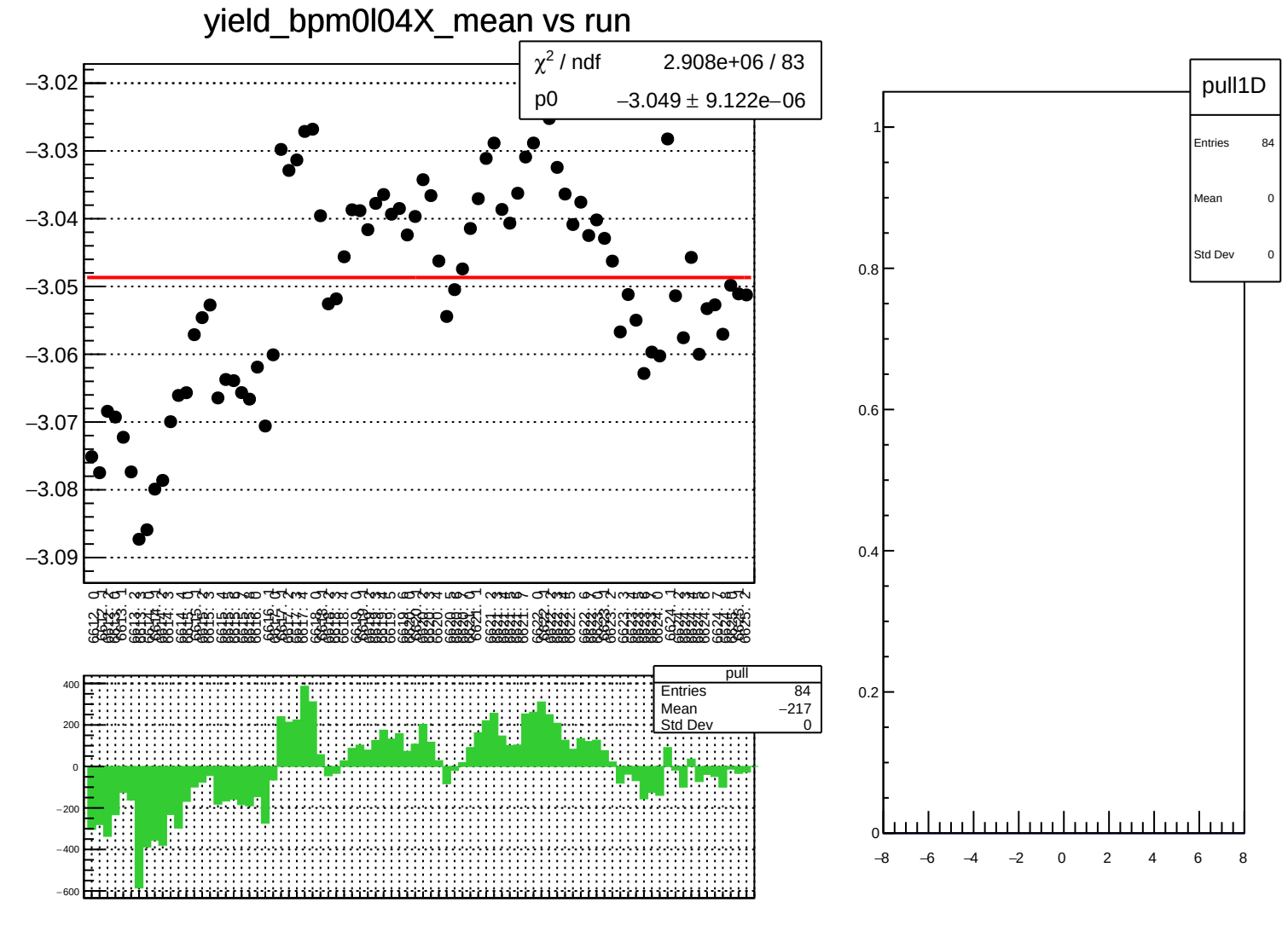

pull1D
Entries 84
Mean −2.123
Std Dev 5.362
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

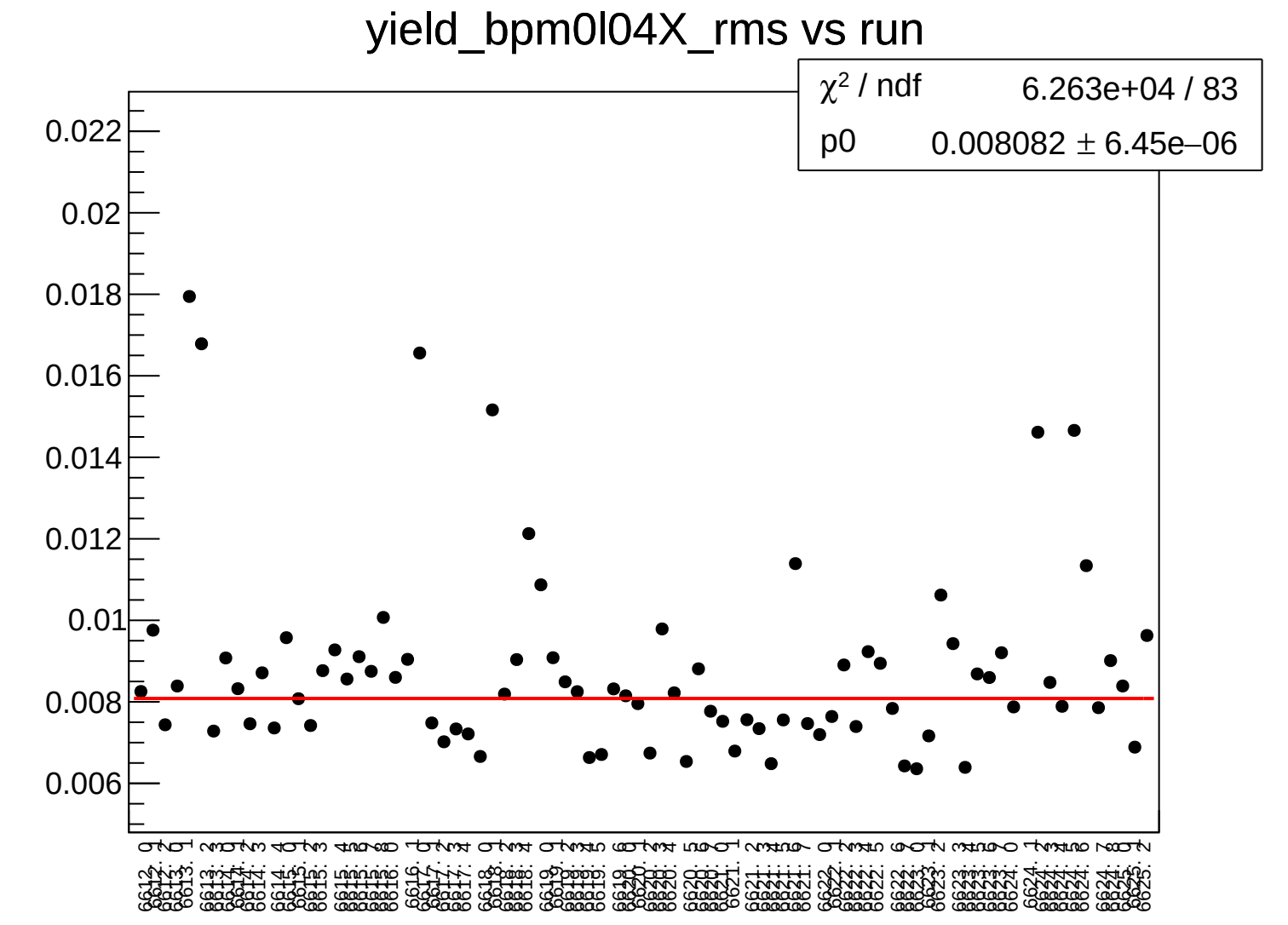

yield_bpm0l03X_rms vs run
χ² / ndf 7.917e+04 / 83
p0 0.08259 ± 6.627e−05
0.3
0.25
0.2
0.15
0.1
0.05

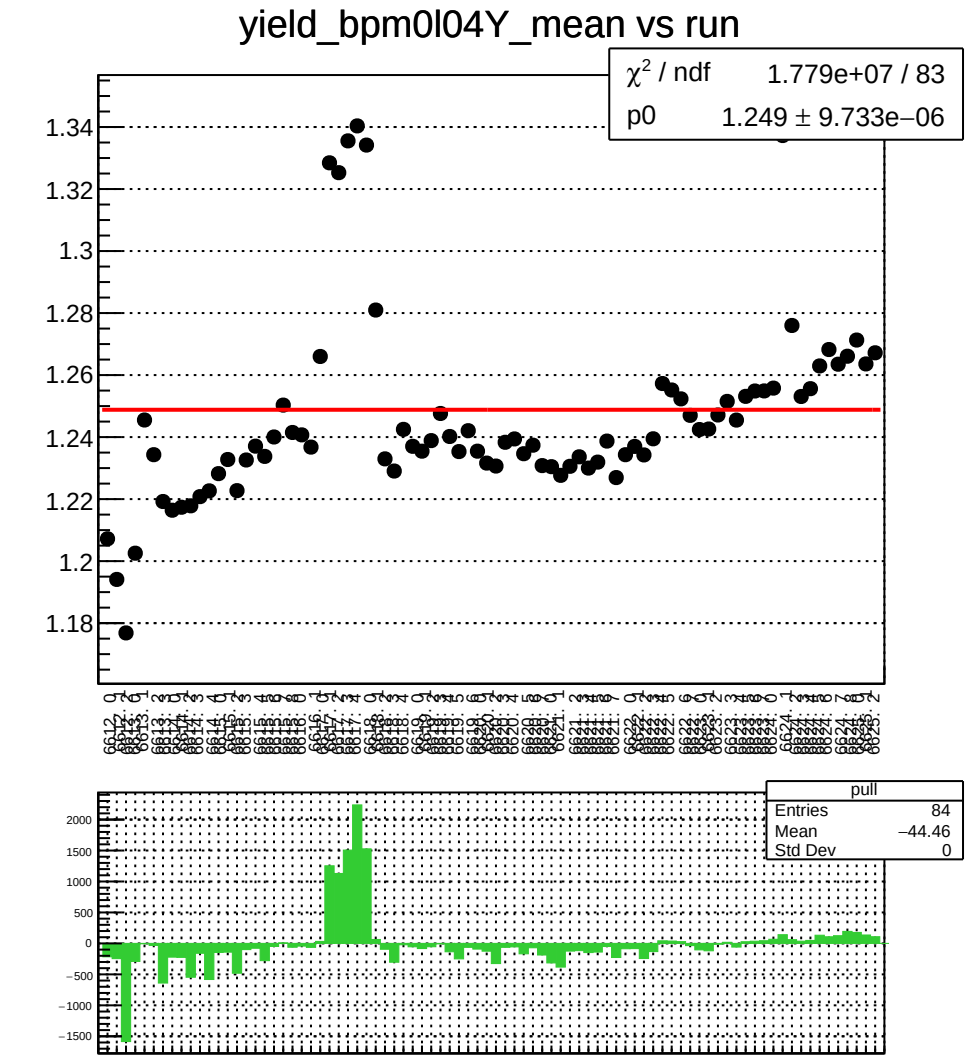

yield_bpm0l03Y_mean vs run
χ² / ndf 4.778e+05 / 83
p0 1.811± 9.984e−05
pull
Entries 84
Mean 412.6
Std Dev 0

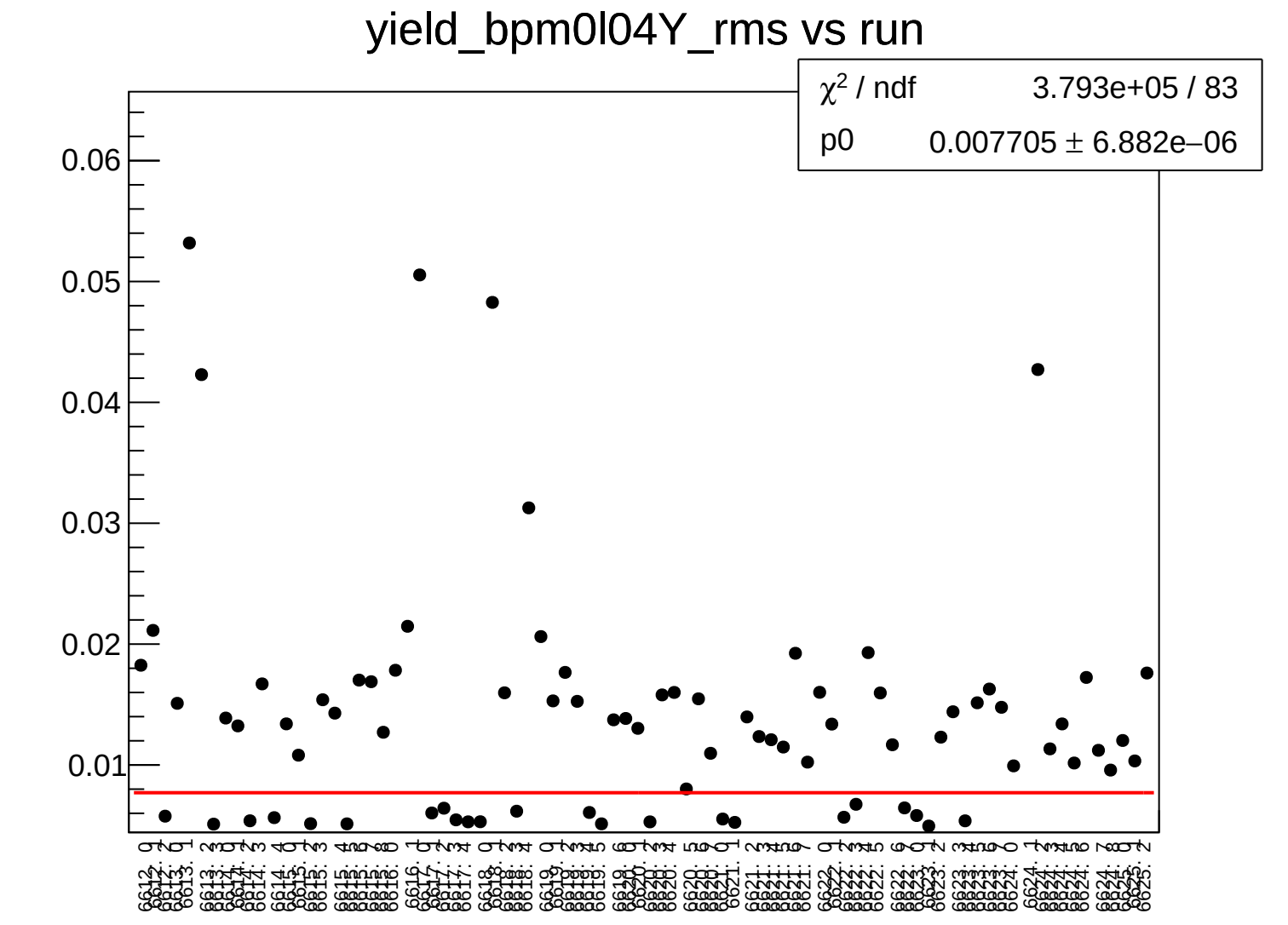

pull1D
Entries 84
Mean 1.167
Std Dev 4.078

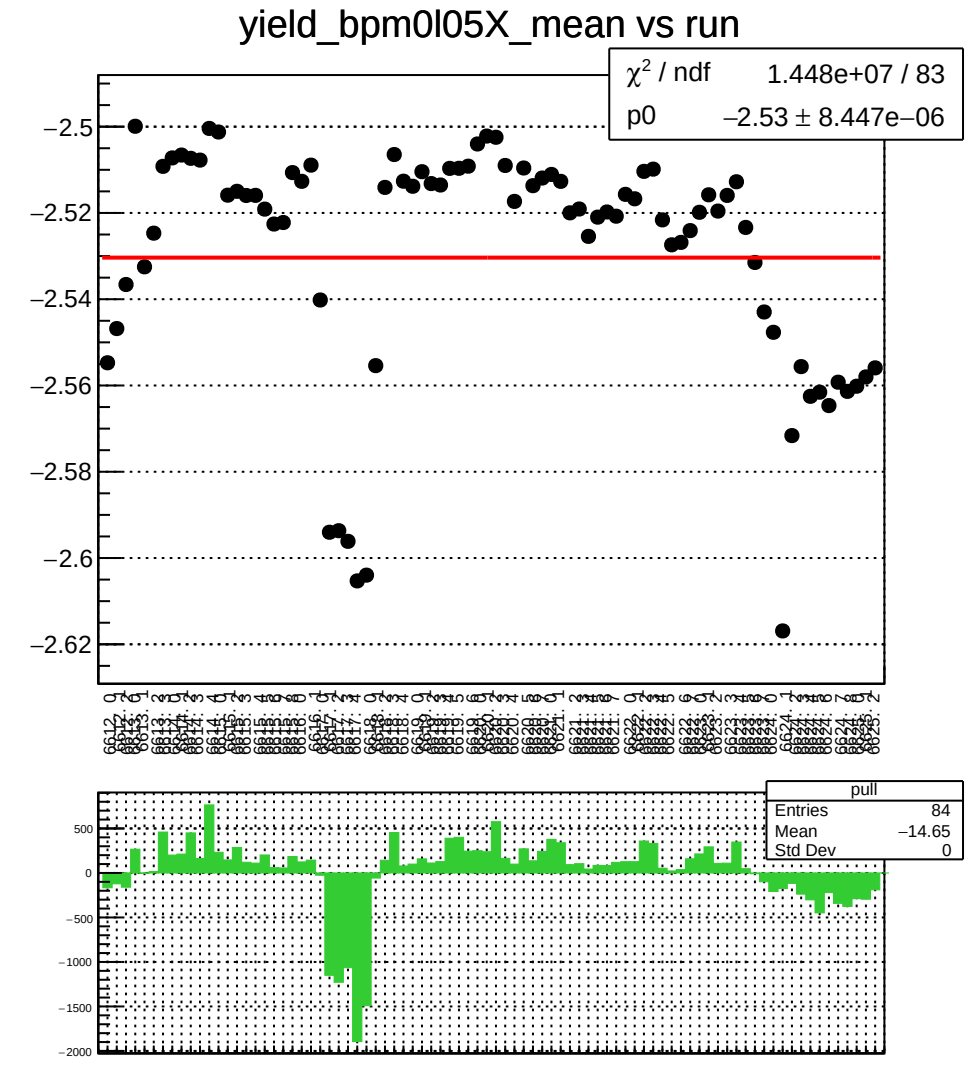

yield_bpm0l03Y_rms vs run
χ² / ndf 9.373e+04 / 83
p0 0.08758 ± 7.06e−05
0.3
0.25
0.2
0.15
0.1
0.05

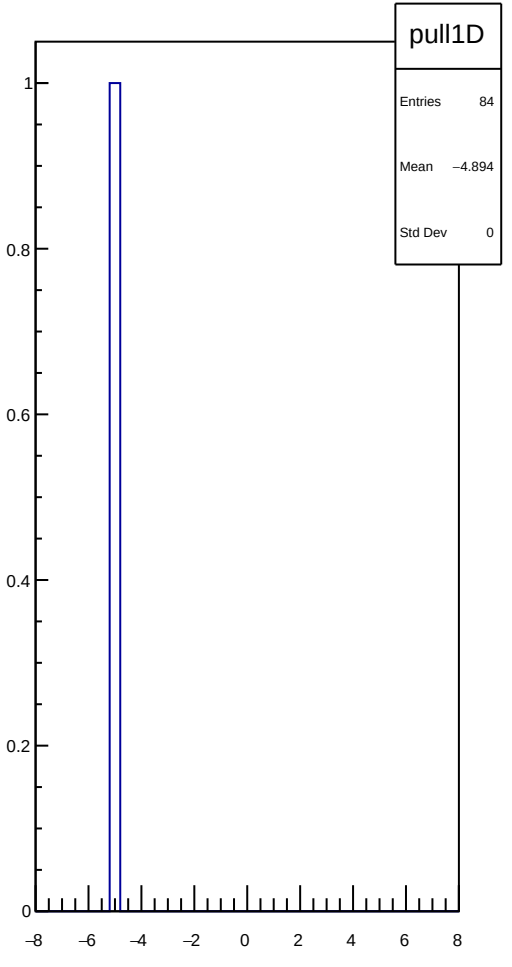

yield_bpm0l04X_mean vs run
χ² / ndf 2.908e+06 / 83
p0 −3.049 ± 9.122e−06
−3.02
−3.03
−3.04
−3.05
−3.06
−3.07
−3.08
−3.09
pull
Entries 84
Mean −217
Std Dev 0
400
200
0
−200
−400
−600
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l04X_rms vs run
χ² / ndf 6.263e+04 / 83
p0 0.008082 ± 6.45e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

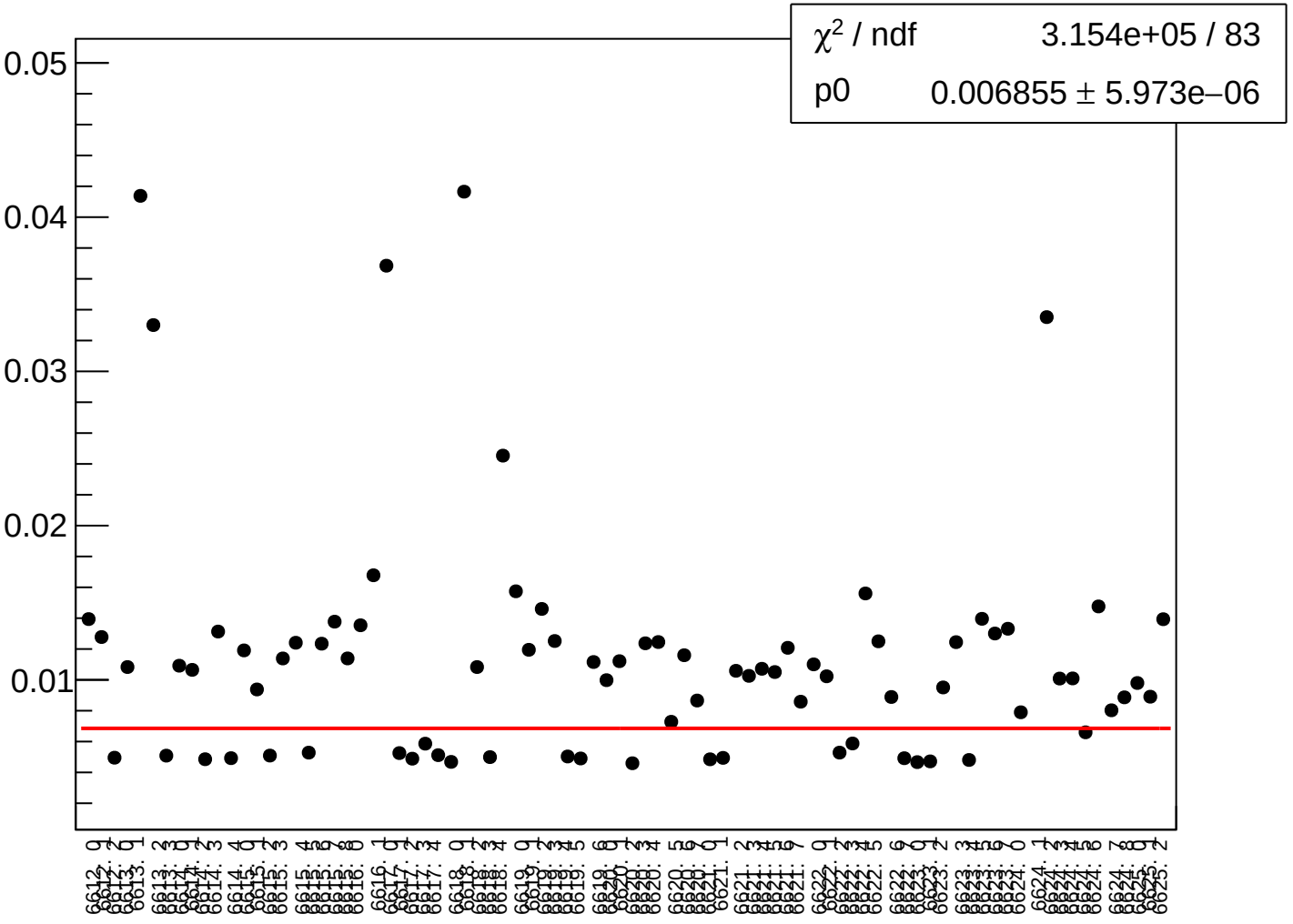

yield_bpm0l04Y_mean vs run
χ² / ndf 1.779e+07 / 83
p0 1.249 ± 9.733e−06
pull
Entries 84
Mean −44.46
Std Dev 0
pull1D
Entries 84
Mean −6.667
Std Dev 0.7758

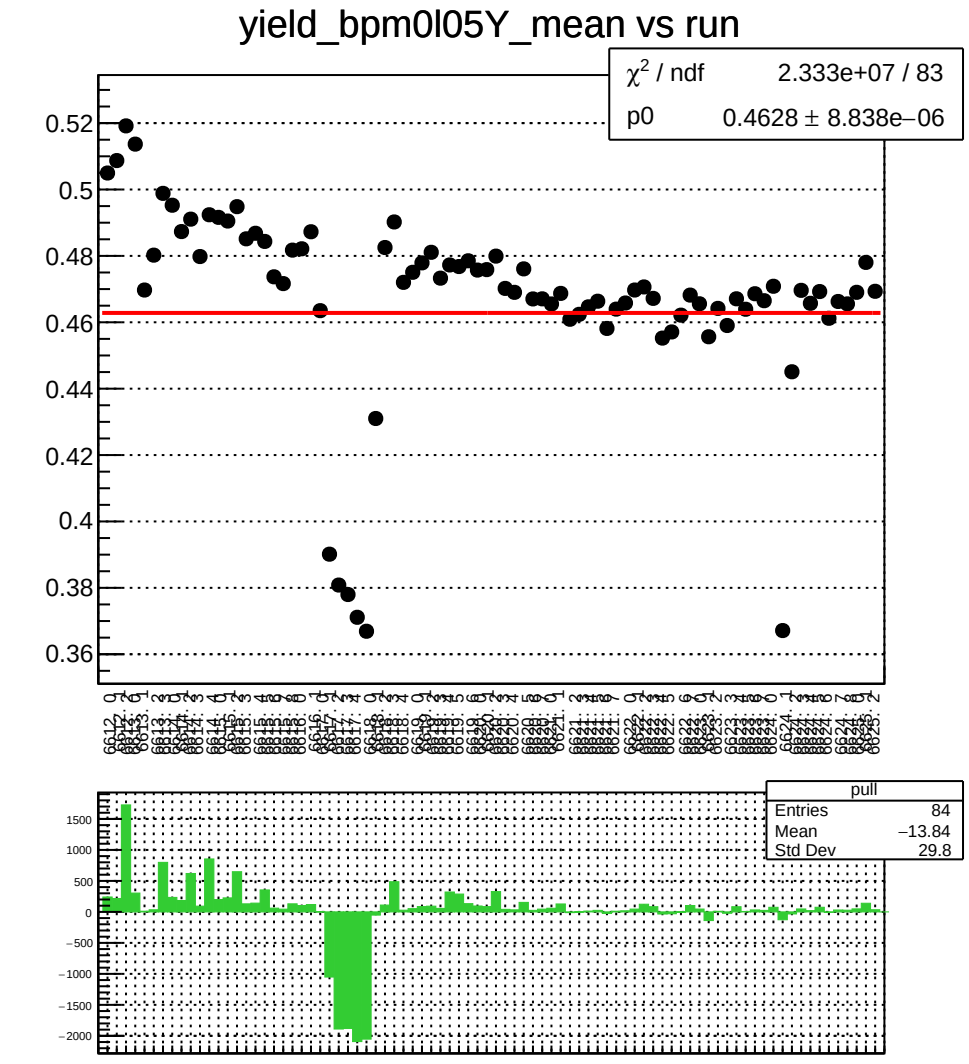

yield_bpm0l04Y_rms vs run
χ² / ndf 3.793e+05 / 83
p0 0.007705 ± 6.882e−06
0.06
0.05
0.04
0.03
0.02
0.01

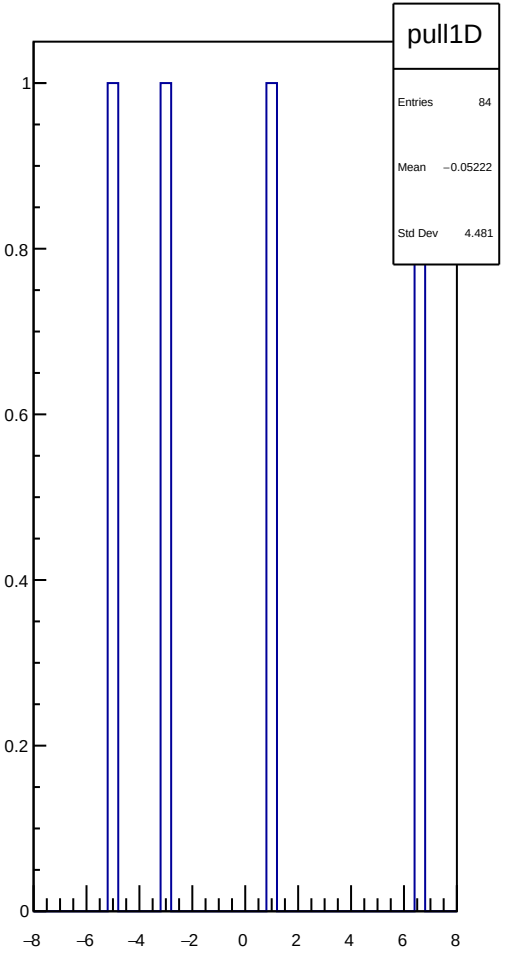

yield_bpm0l05X_mean vs run
χ² / ndf 1.448e+07 / 83
p0 −2.53 ± 8.447e−06
−2.5
−2.52
−2.54
−2.56
−2.58
−2.6
−2.62
pull
Entries 84
Mean −14.65
Std Dev 0
500
0
−500
−1000
−1500
−2000

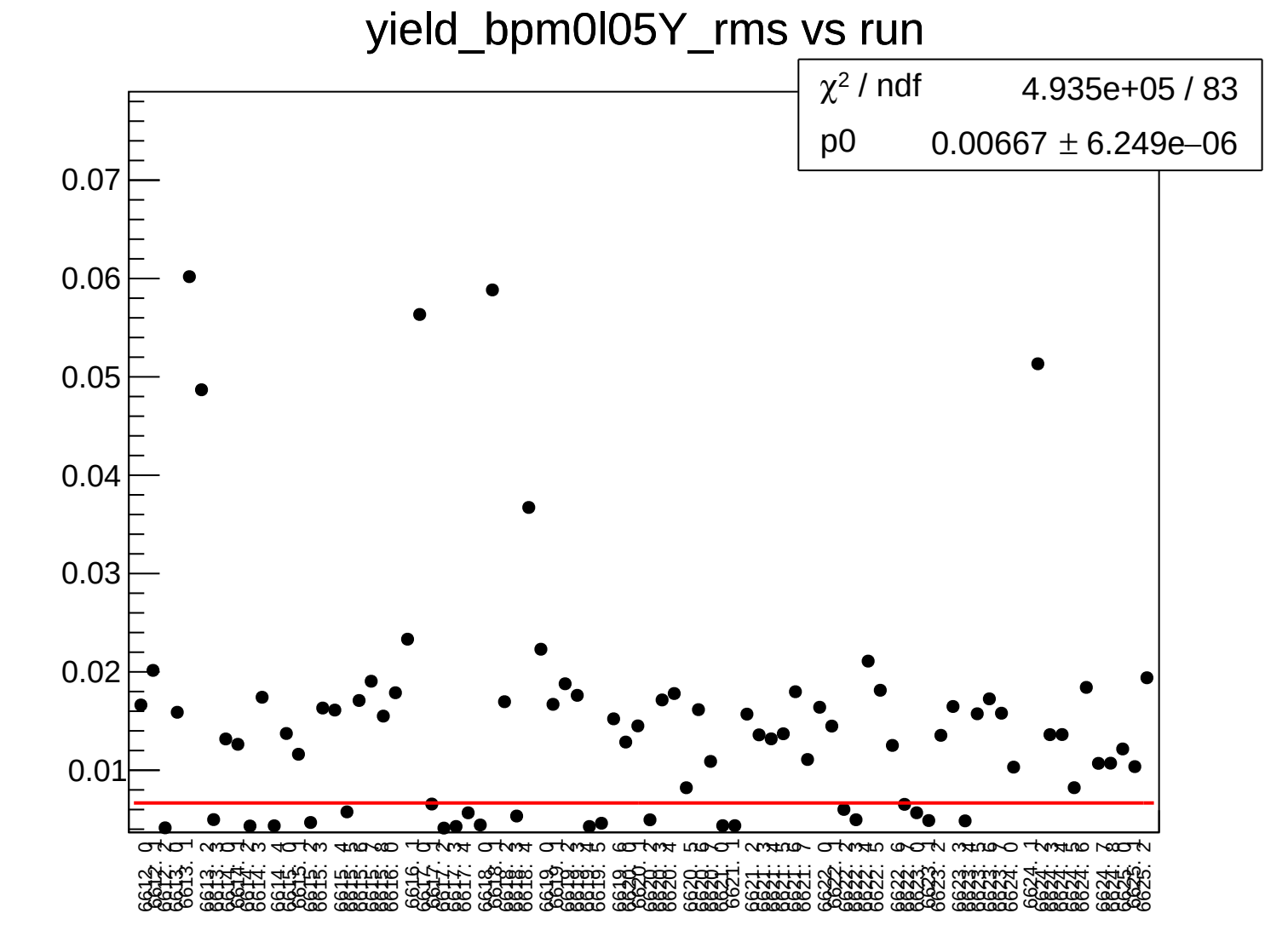

pull1D
Entries 84
Mean −4.894
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

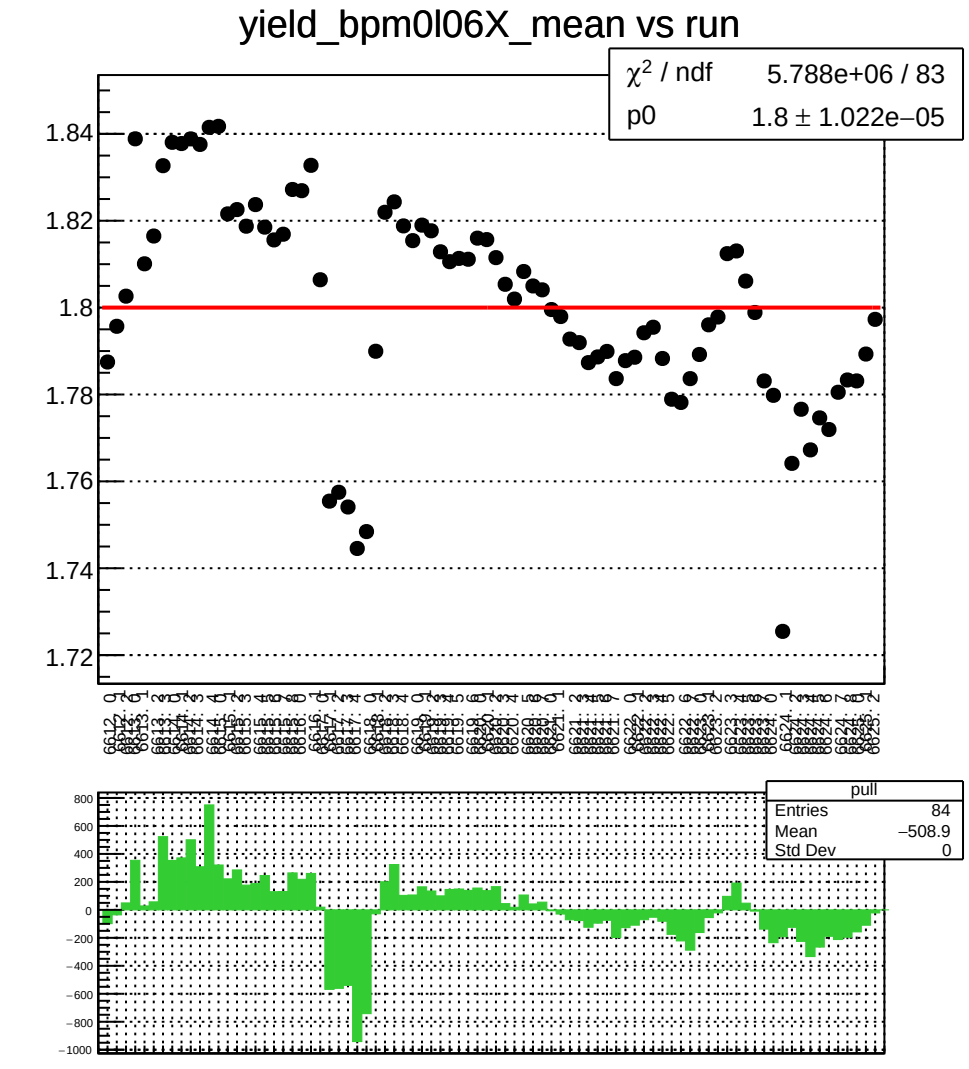
yield_bpm0l05X_rms vs run

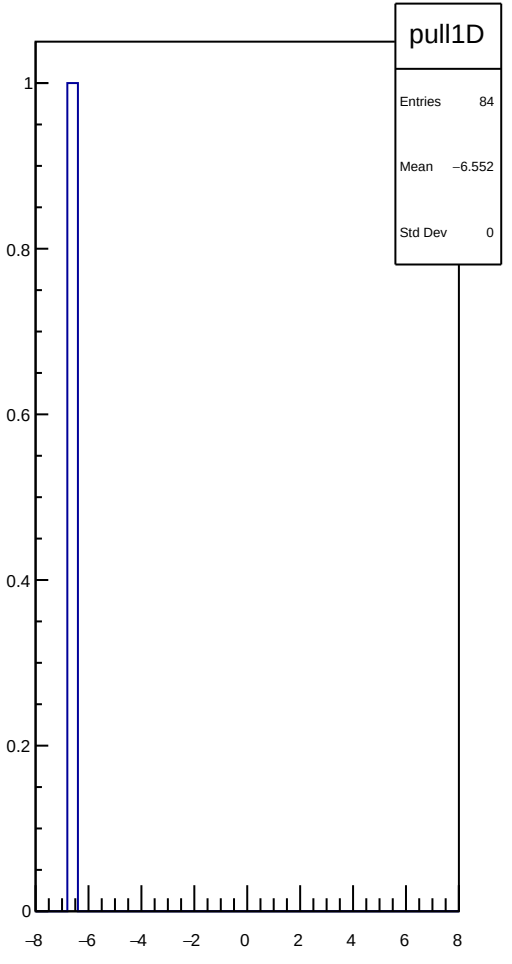


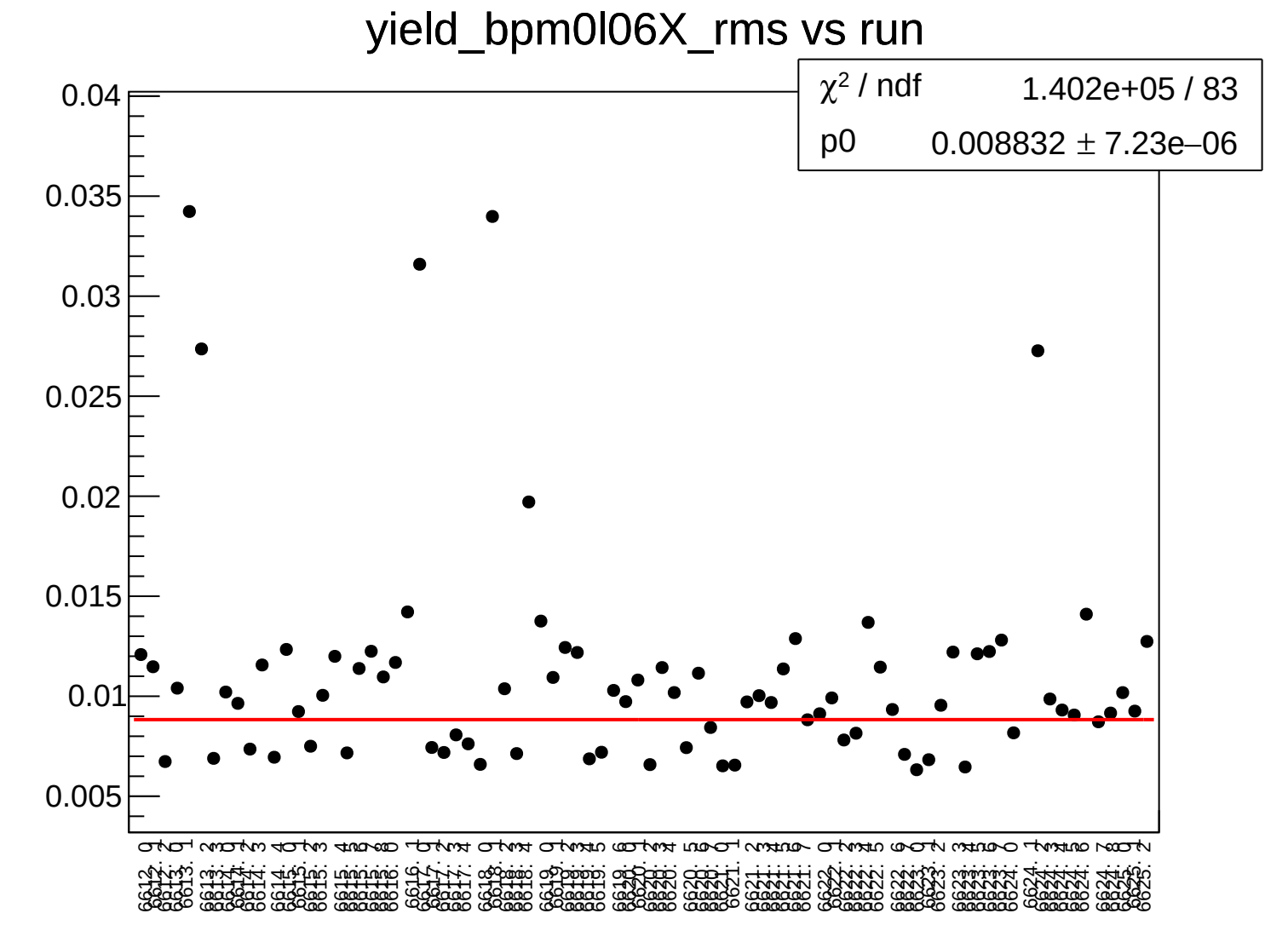

yield_bpm0l05Y_mean vs run
χ² / ndf 2.333e+07 / 83
p0 0.4628 ± 8.838e−06
0.52
0.5
0.48
0.46
0.44
0.42
0.4
0.38
0.36
pull
Entries 84
Mean −13.84
Std Dev 29.8
1500
1000
500
0
−500
−1000
−1500
−2000

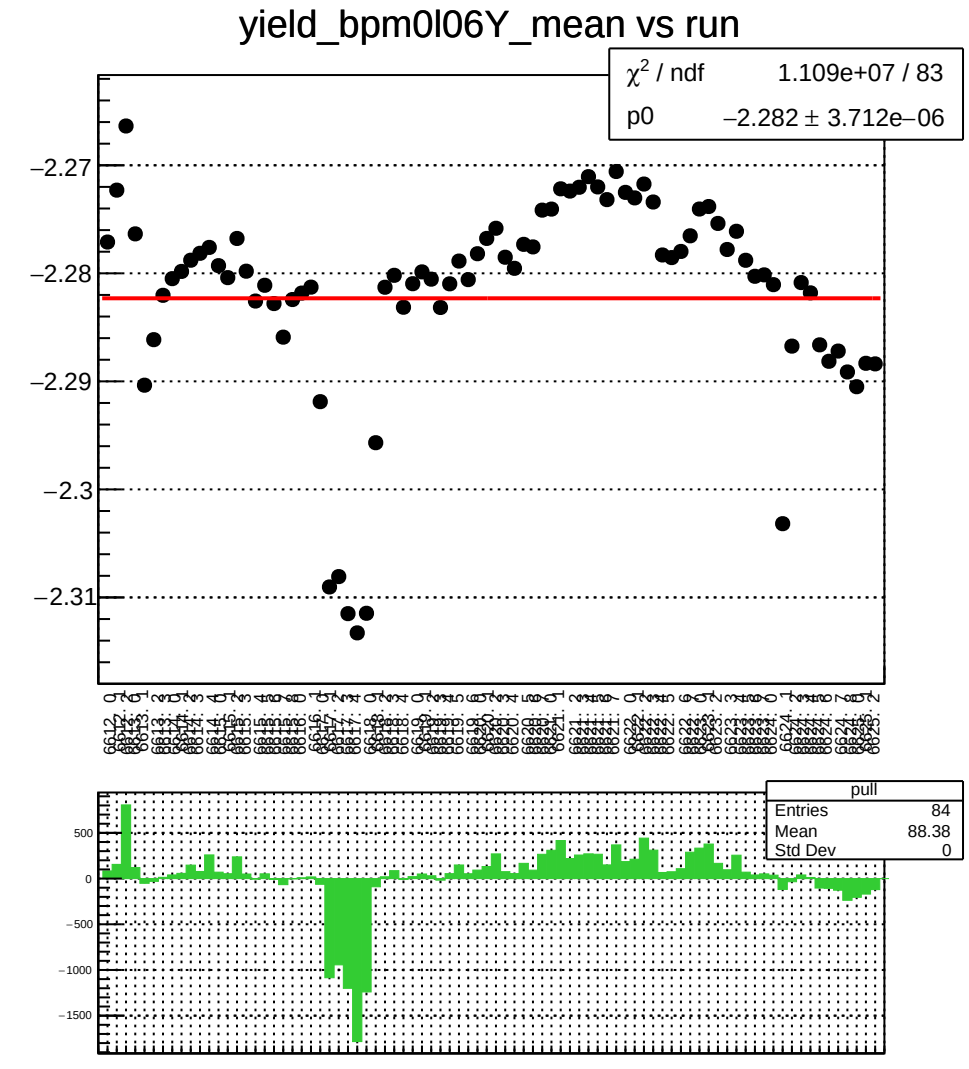

pull1D
Entries 84
Mean −0.05222
Std Dev 4.481
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

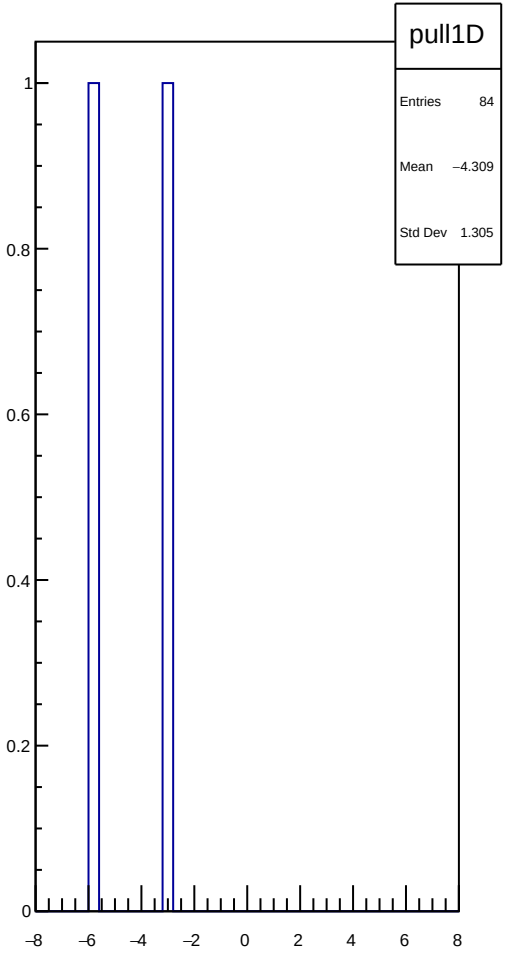

yield_bpm0l05Y_rms vs run
χ² / ndf 4.935e+05 / 83
p0 0.00667 ± 6.249e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

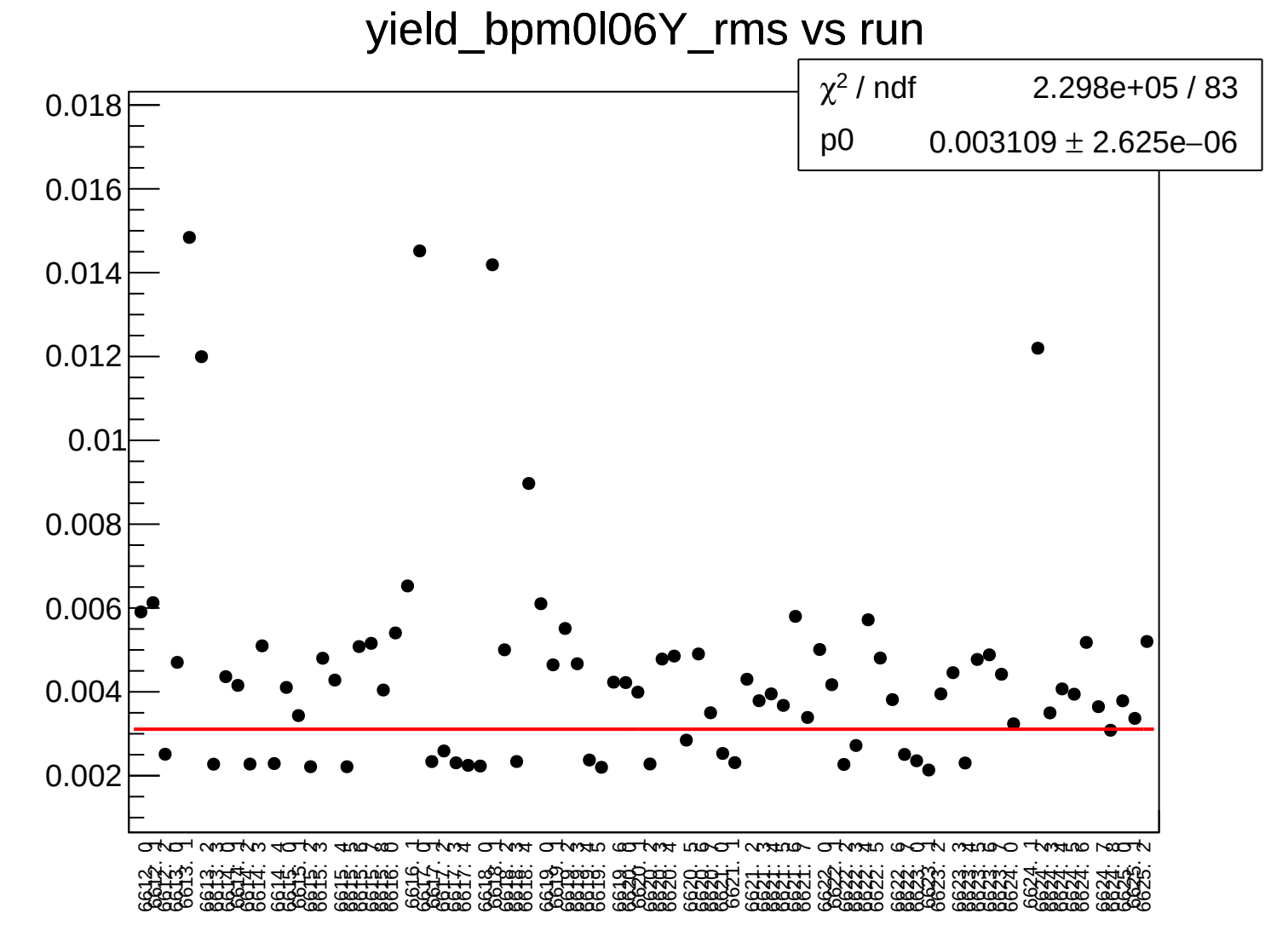

yield_bpm0l06X_mean vs run
χ² / ndf 5.788e+06 / 83
p0 1.8 ± 1.022e−05
1.84
1.82
1.8
1.78
1.76
1.74
1.72
pull
Entries 84
Mean −508.9
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

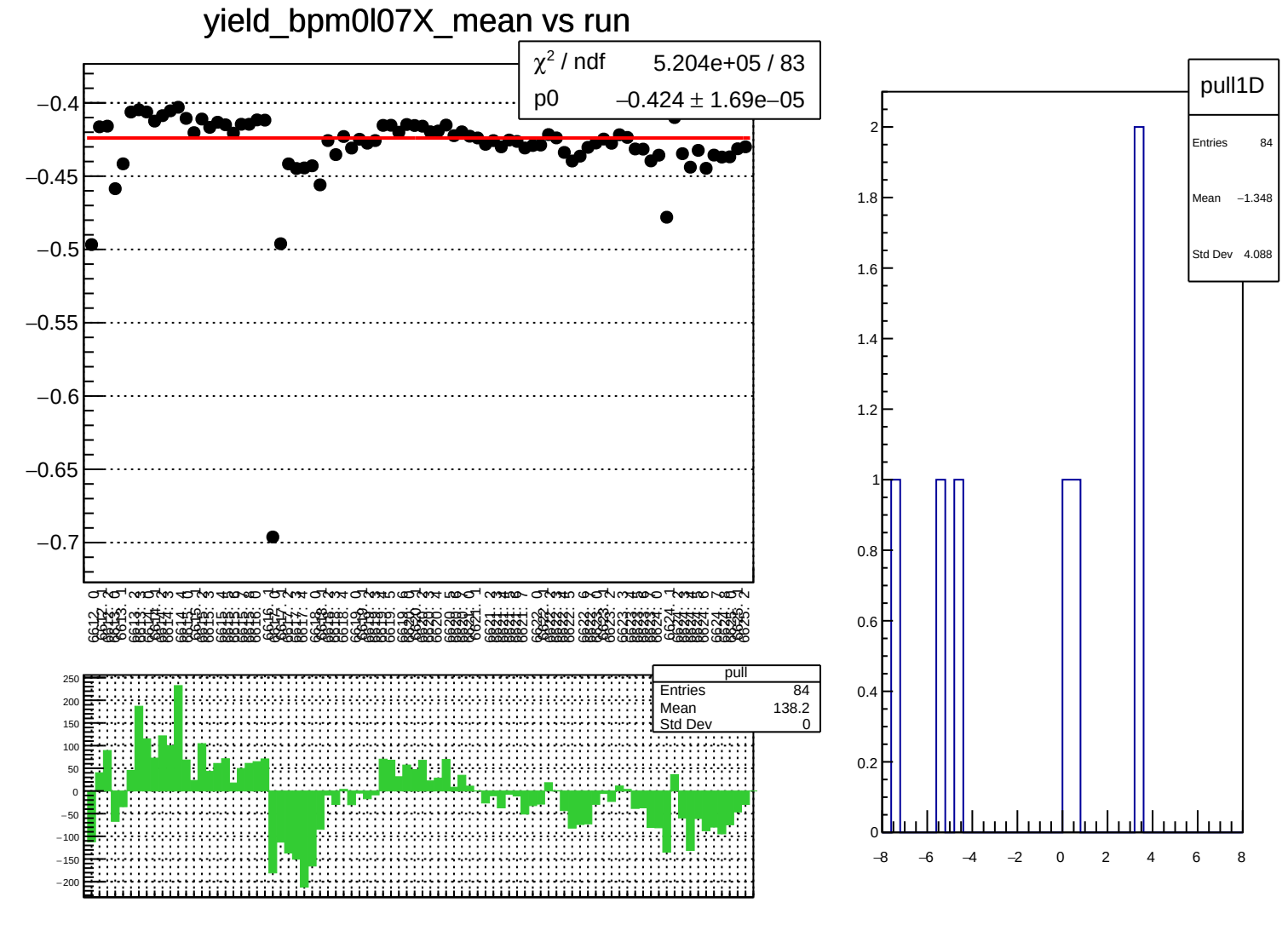

pull1D
Entries 84
Mean −6.552
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

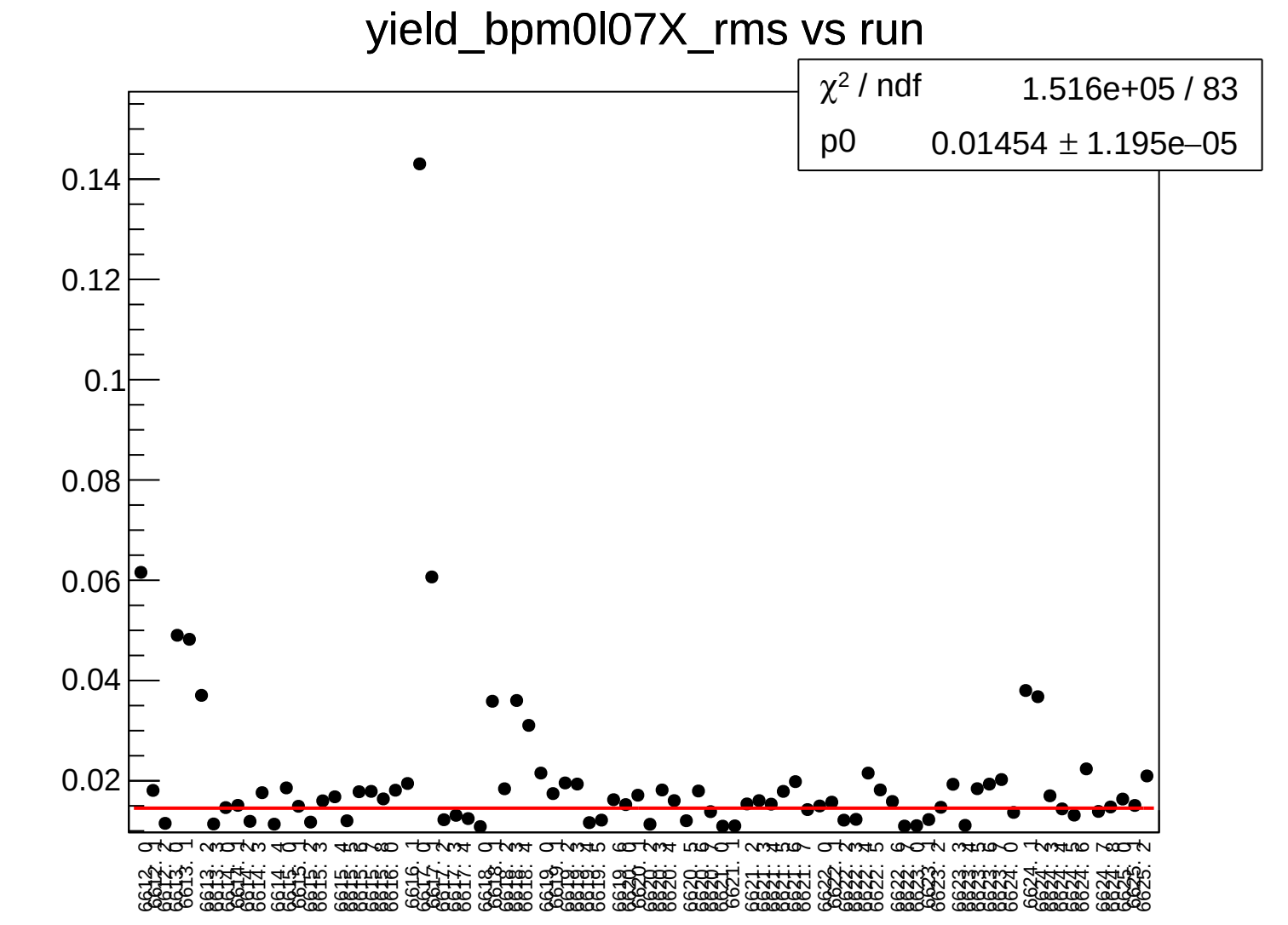

yield_bpm0l06X_rms vs run
χ² / ndf 1.402e+05 / 83
p0 0.008832 ± 7.23e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

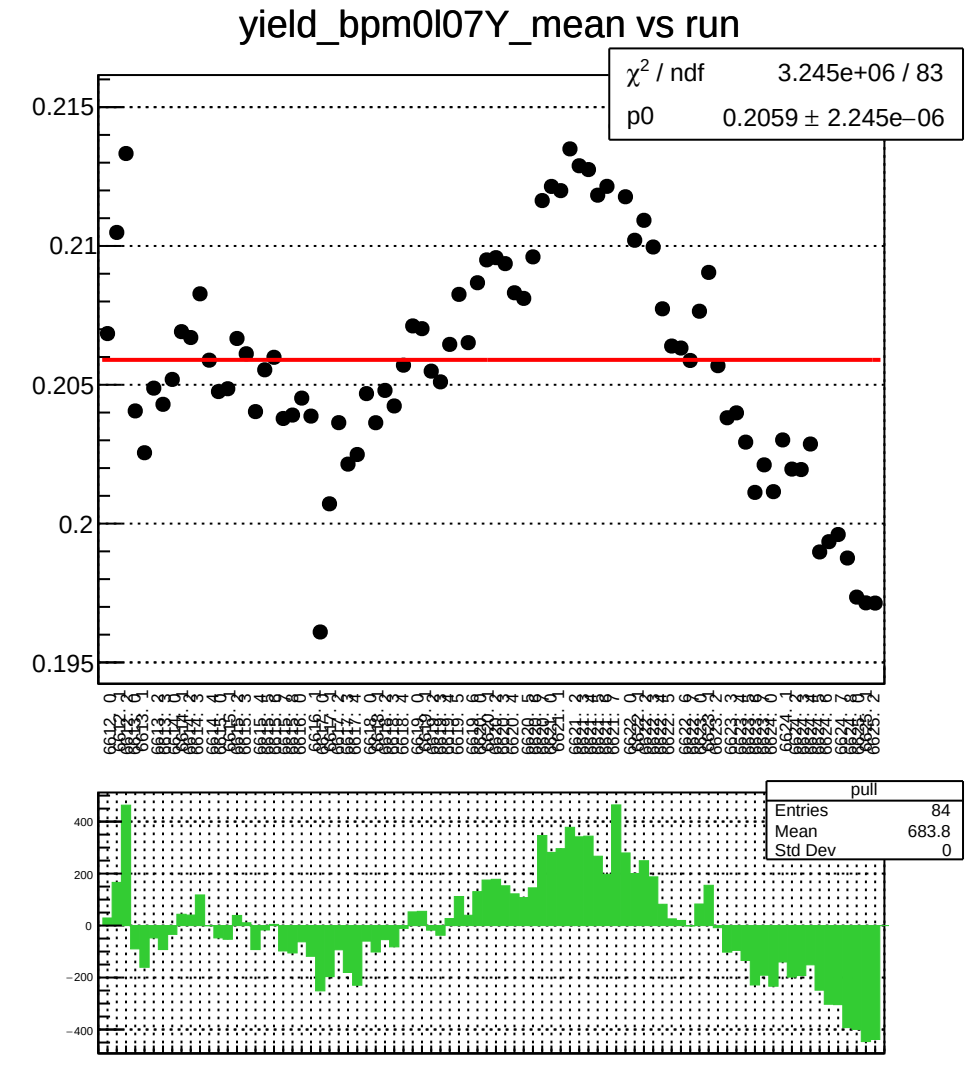

yield_bpm0l06Y_mean vs run
χ² / ndf 1.109e+07 / 83
p0 −2.282 ± 3.712e−06
−2.27
−2.28
−2.29
−2.3
−2.31
pull
Entries 84
Mean 88.38
Std Dev 0
500
0
−500
−1000
−1500

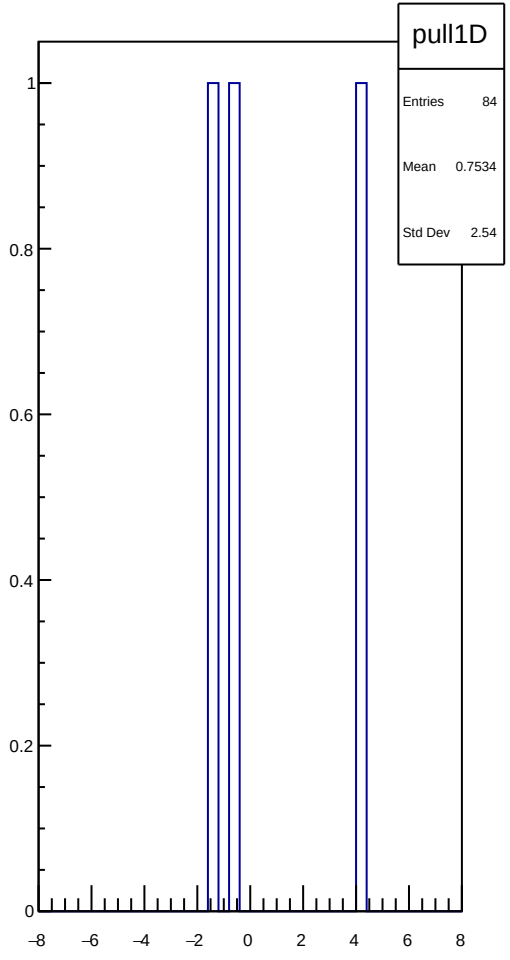

pull1D
Entries 84
Mean −4.309
Std Dev 1.305
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

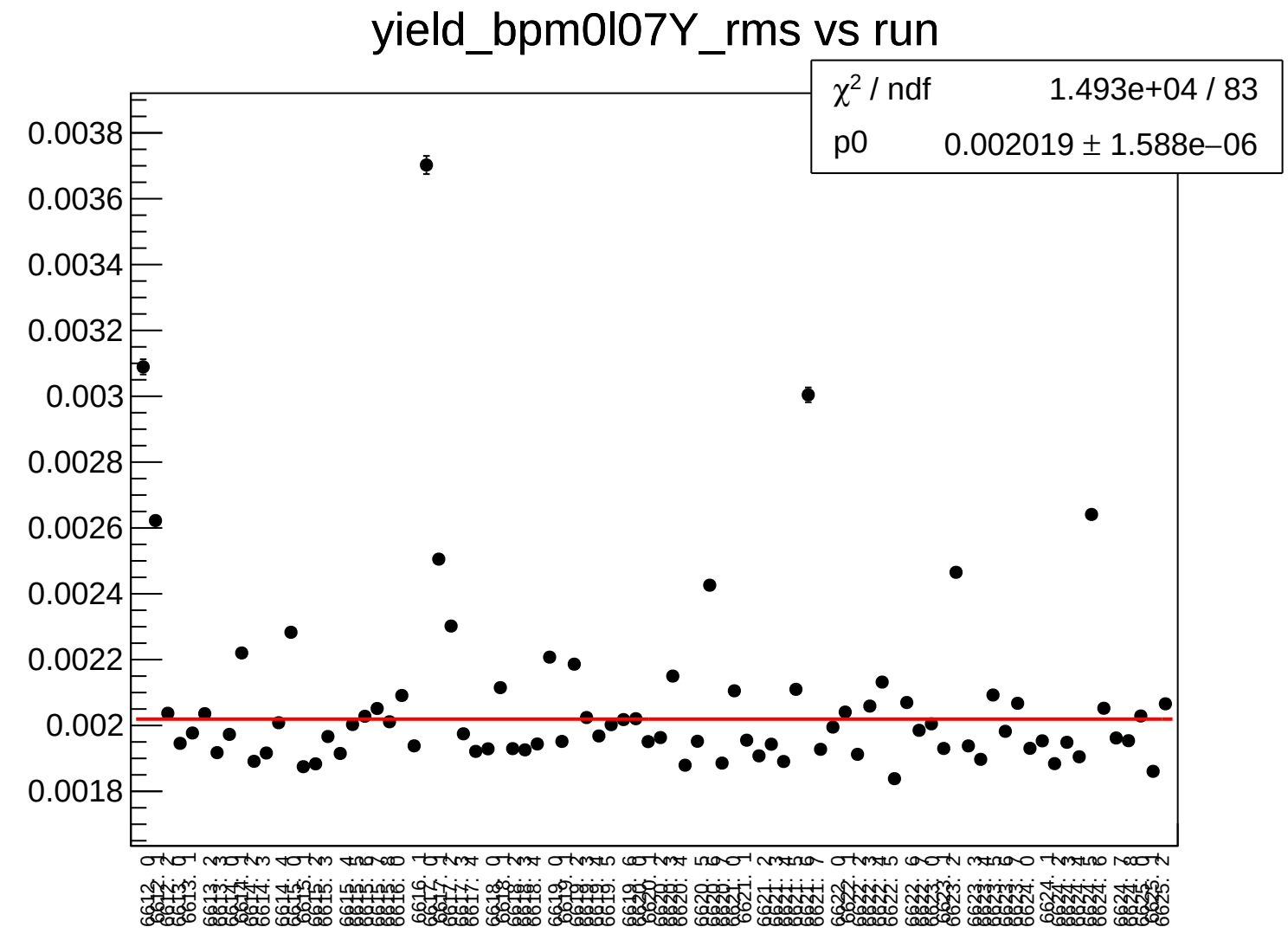

yield_bpm0l06Y_rms vs run
χ² / ndf 2.298e+05 / 83
p0 0.003109 ± 2.625e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

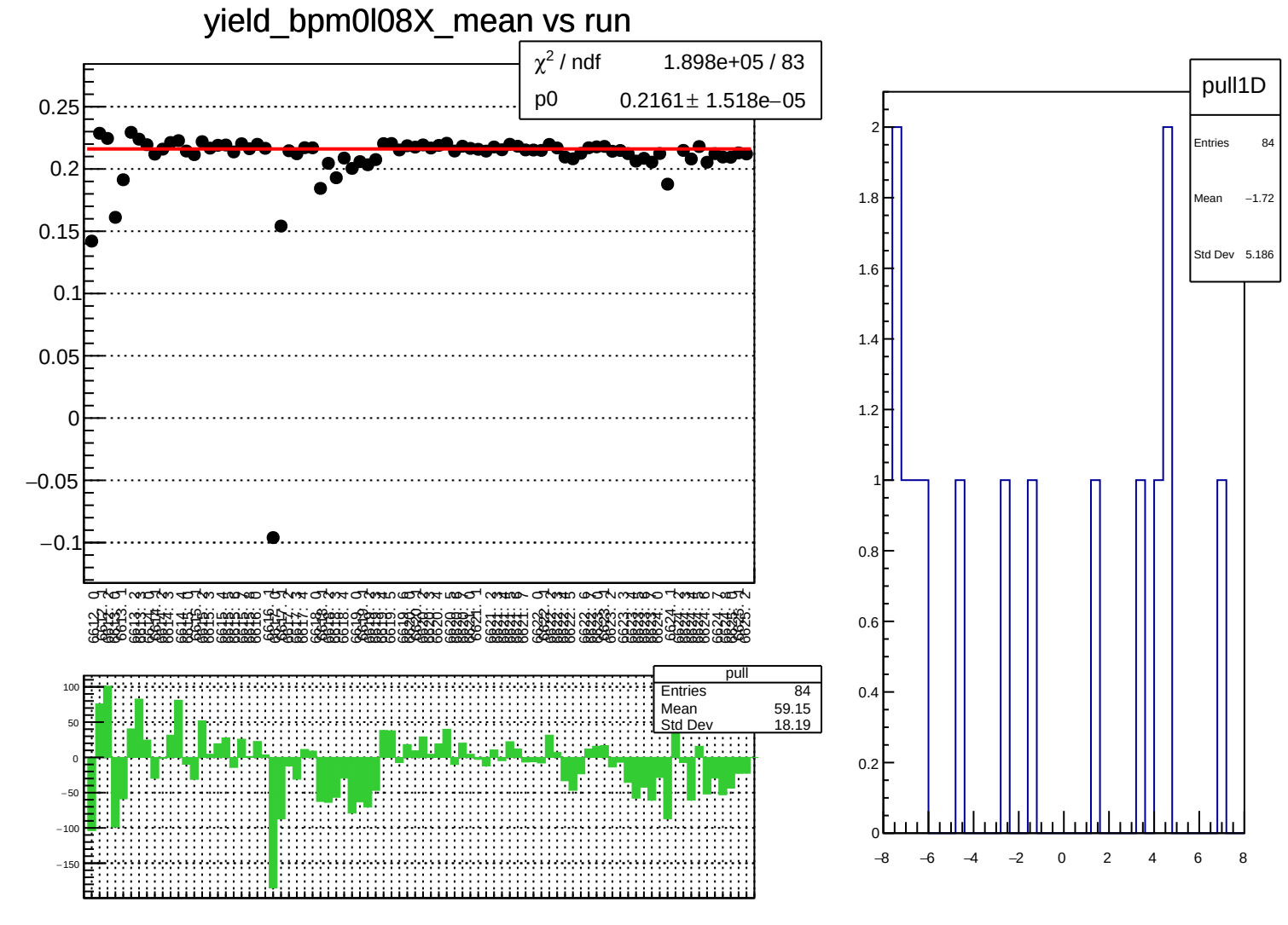

yield_bpm0l07X_mean vs run
χ² / ndf 5.204e+05 / 83
p0 −0.424 ± 1.69e−05
pull
Entries 84
Mean 138.2
Std Dev 0
pull1D
Entries 84
Mean −1.348
Std Dev 4.088

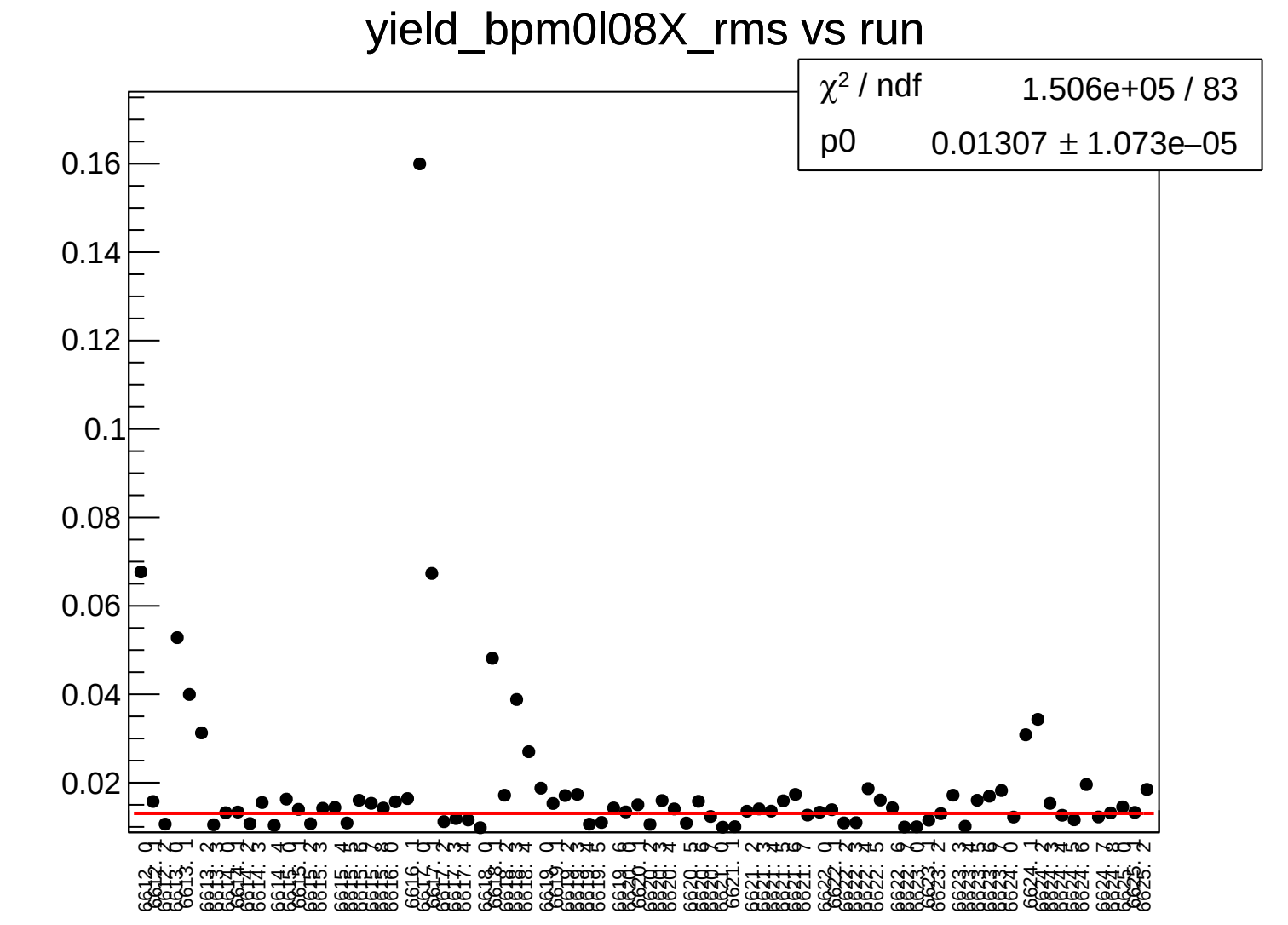

yield_bpm0l07X_rms vs run
χ² / ndf 1.516e+05 / 83
p0 0.01454 ± 1.195e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

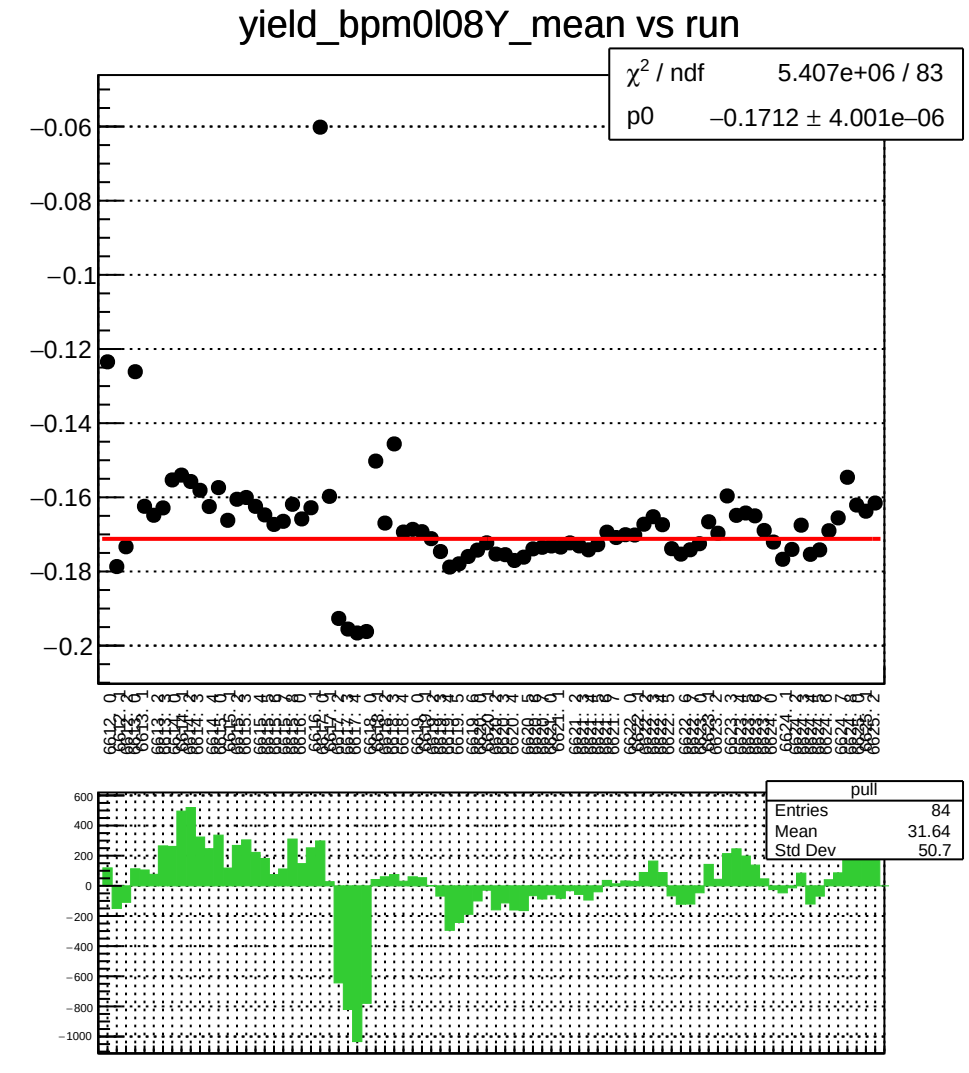

yield_bpm0l07Y_mean vs run
χ² / ndf 3.245e+06 / 83
p0 0.2059 ± 2.245e−06
0.215
0.21
0.205
0.2
0.195
pull
Entries 84
Mean 683.8
Std Dev 0
400
200
0
−200
−400

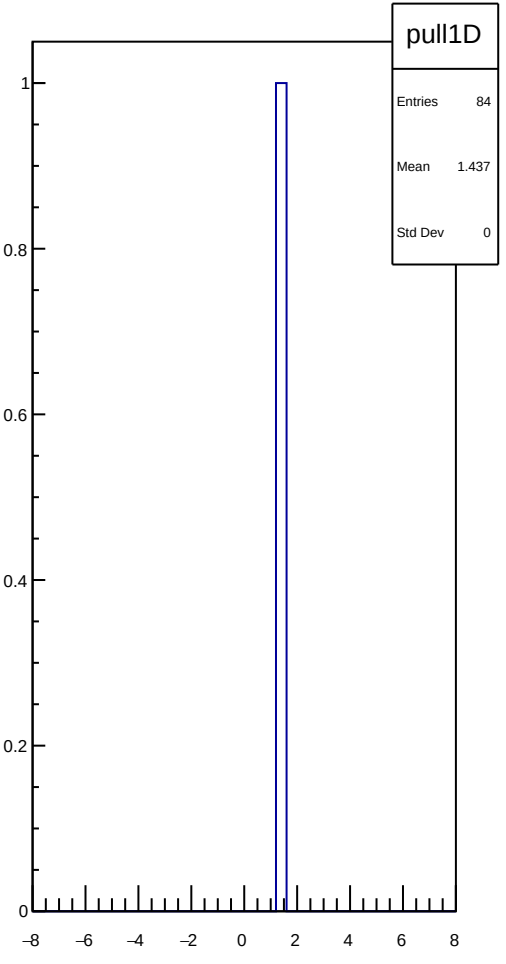

pull1D
Entries 84
Mean 0.7534
Std Dev 2.54
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l07Y_rms vs run
χ² / ndf 1.493e+04 / 83
p0 0.002019 ± 1.588e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

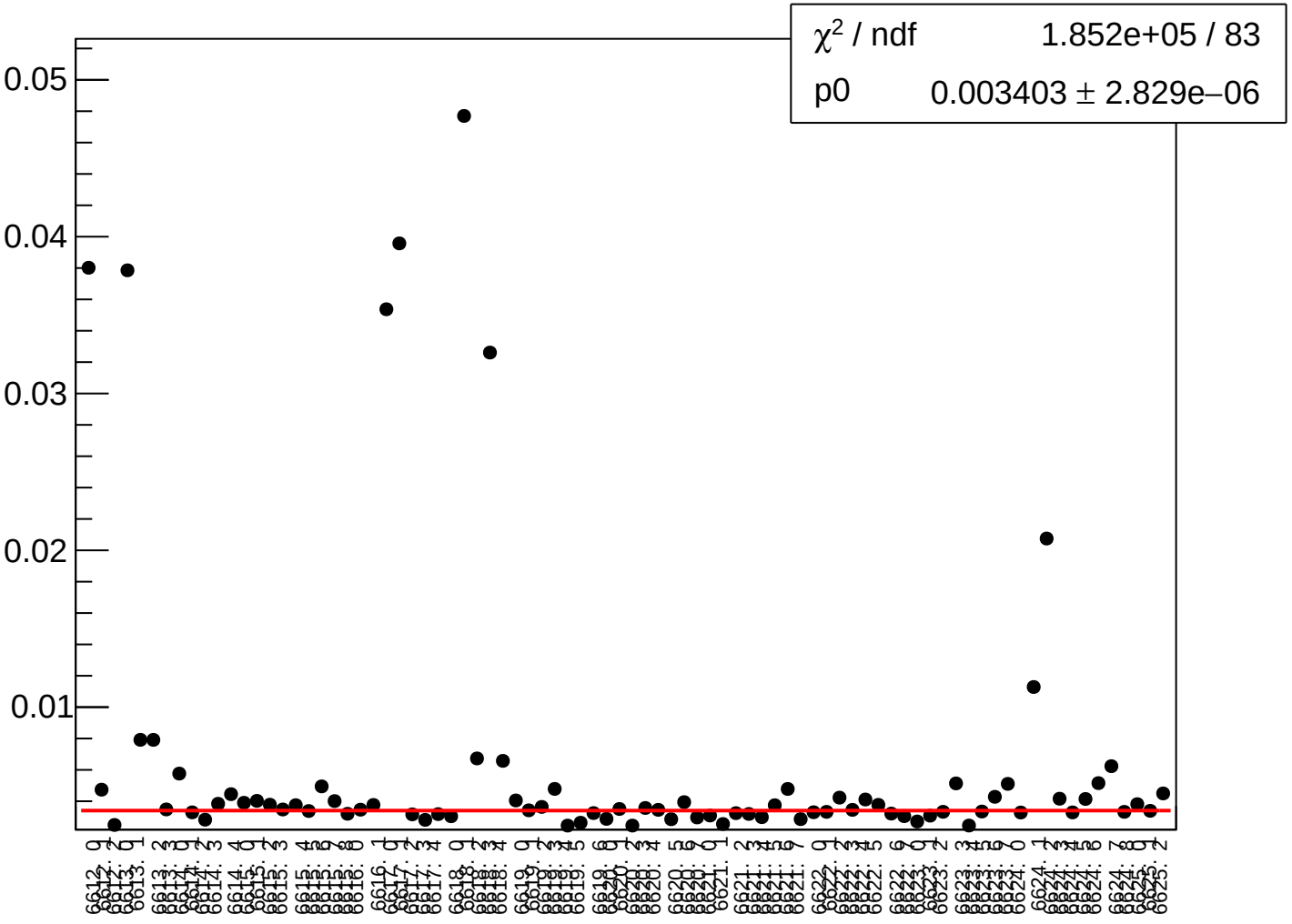

yield_bpm0l08X_mean vs run
χ² / ndf 1.898e+05 / 83
p0 0.2161 ± 1.518e−05
pull
Entries 84
Mean 59.15
Std Dev 18.19
pull1D
Entries 84
Mean −1.72
Std Dev 5.186

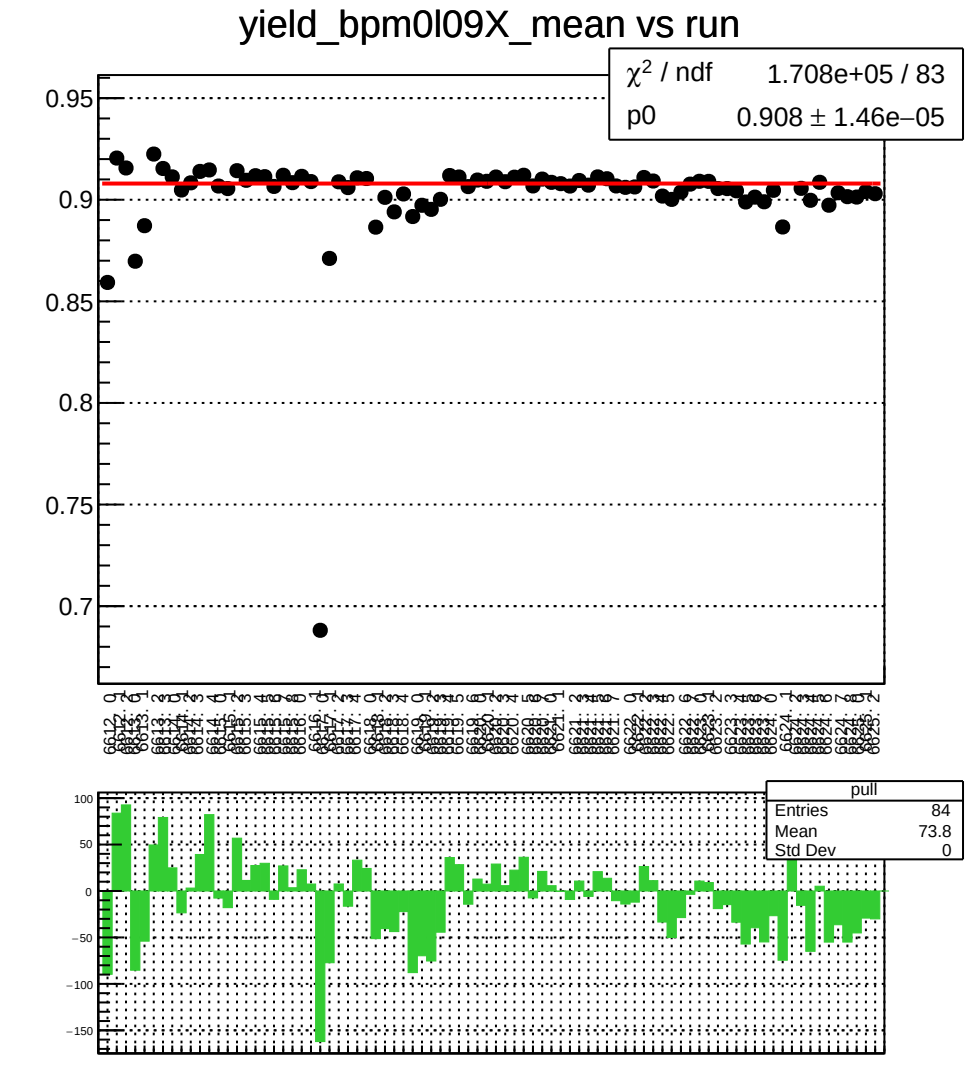

yield_bpm0l08X_rms vs run
χ² / ndf 1.506e+05 / 83
p0 0.01307 ± 1.073e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

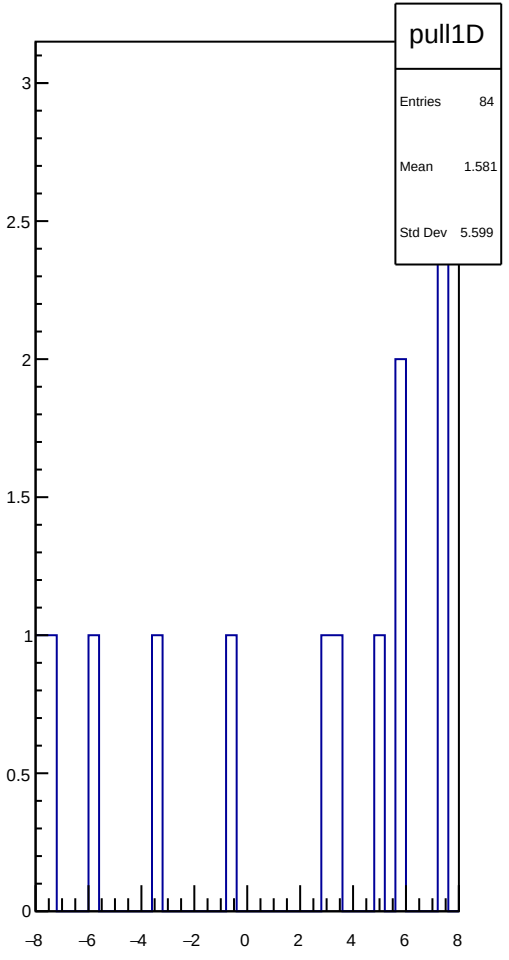

yield_bpm0l08Y_mean vs run
χ² / ndf 5.407e+06 / 83
p0 −0.1712 ± 4.001e−06
pull
Entries 84
Mean 31.64
Std Dev 50.7

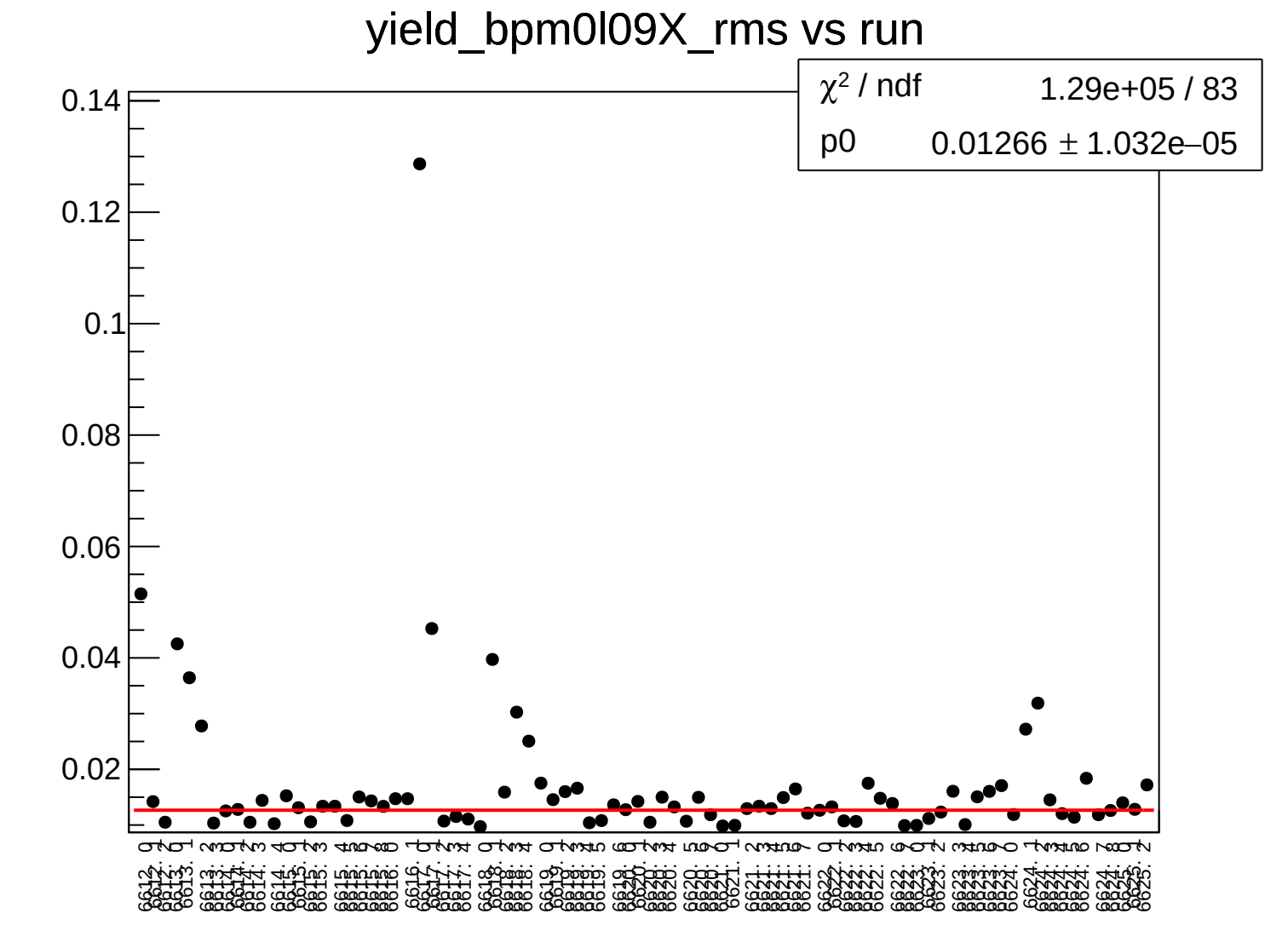

pull1D
Entries 84
Mean 1.437
Std Dev 0

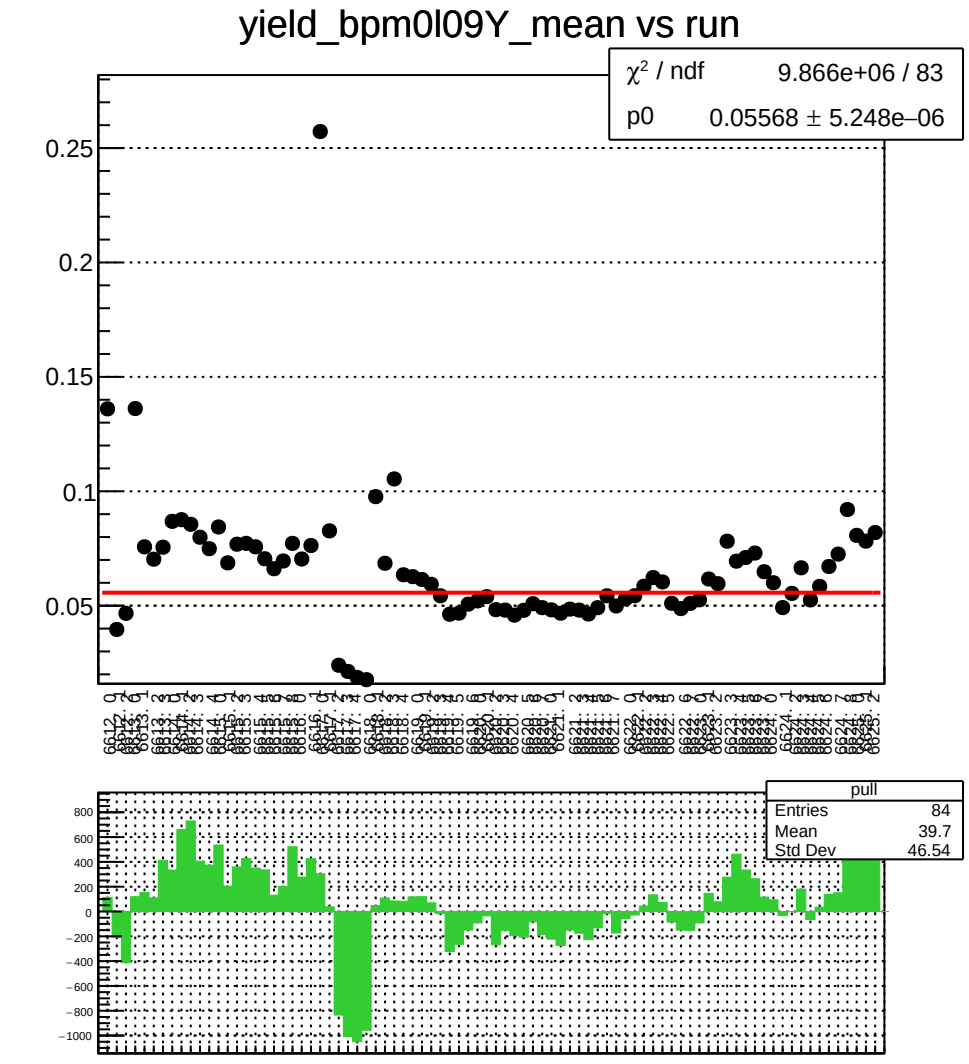
yield_bpm0l08Y_rms vs run

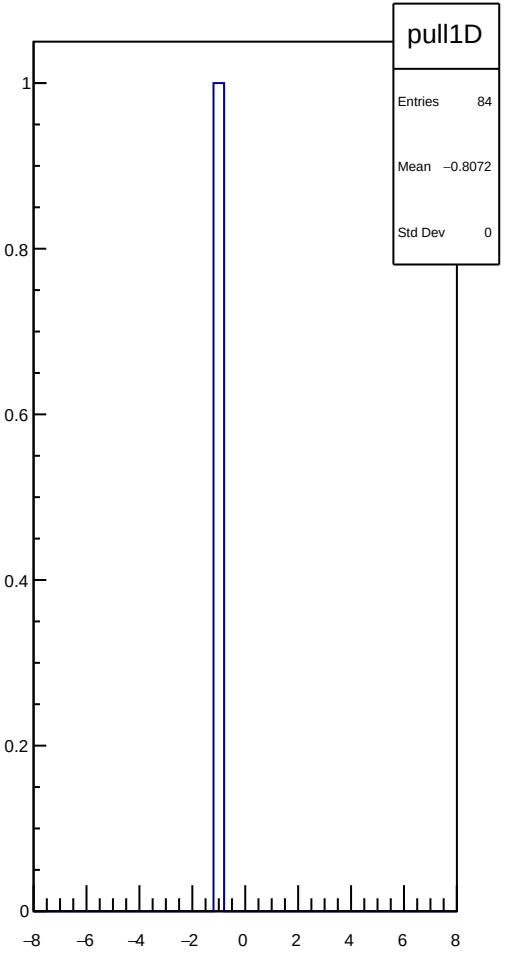


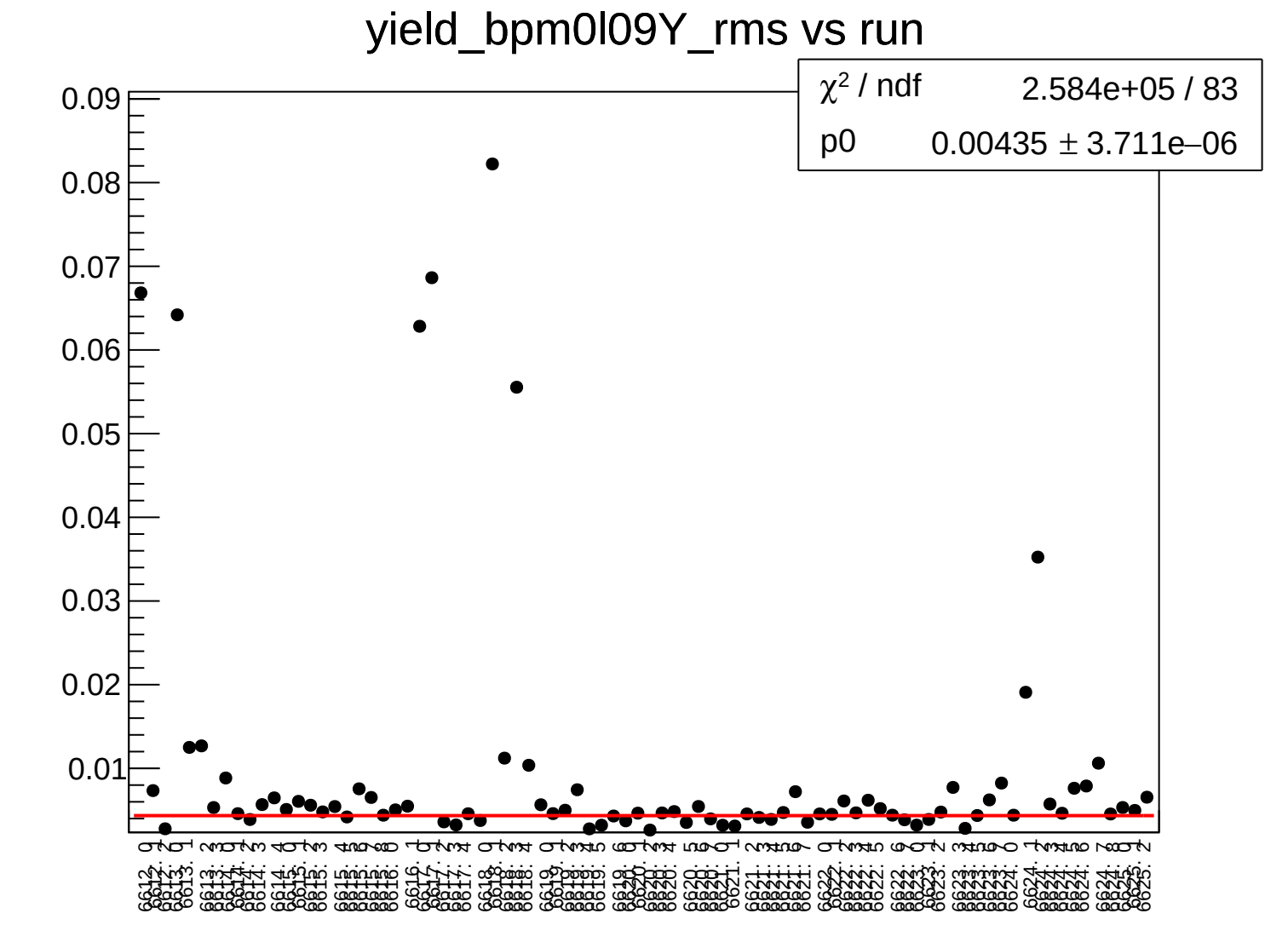

yield_bpm0l09X_mean vs run
χ² / ndf 1.708e+05 / 83
p0 0.908 ± 1.46e−05
0.95
0.9
0.85
0.8
0.75
0.7
pull
Entries 84
Mean 73.8
Std Dev 0
100
50
0
−50
−100
−150

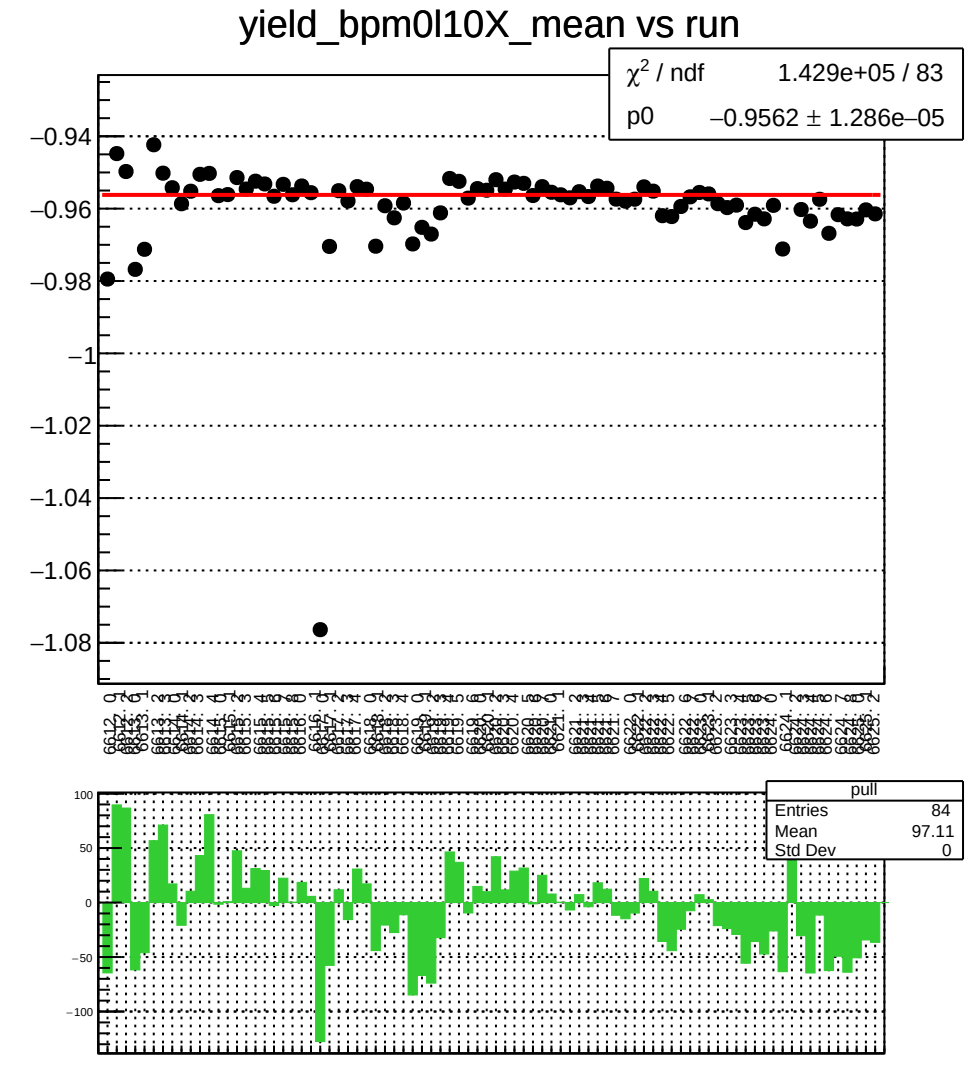

pull1D
Entries 84
Mean 1.581
Std Dev 5.599
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

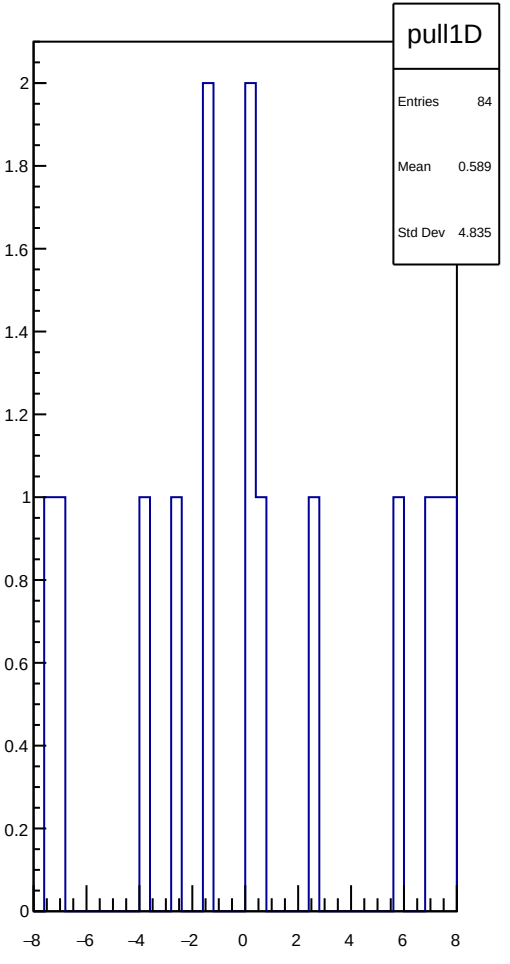

yield_bpm0l09X_rms vs run
χ² / ndf 1.29e+05 / 83
p0 0.01266 ± 1.032e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

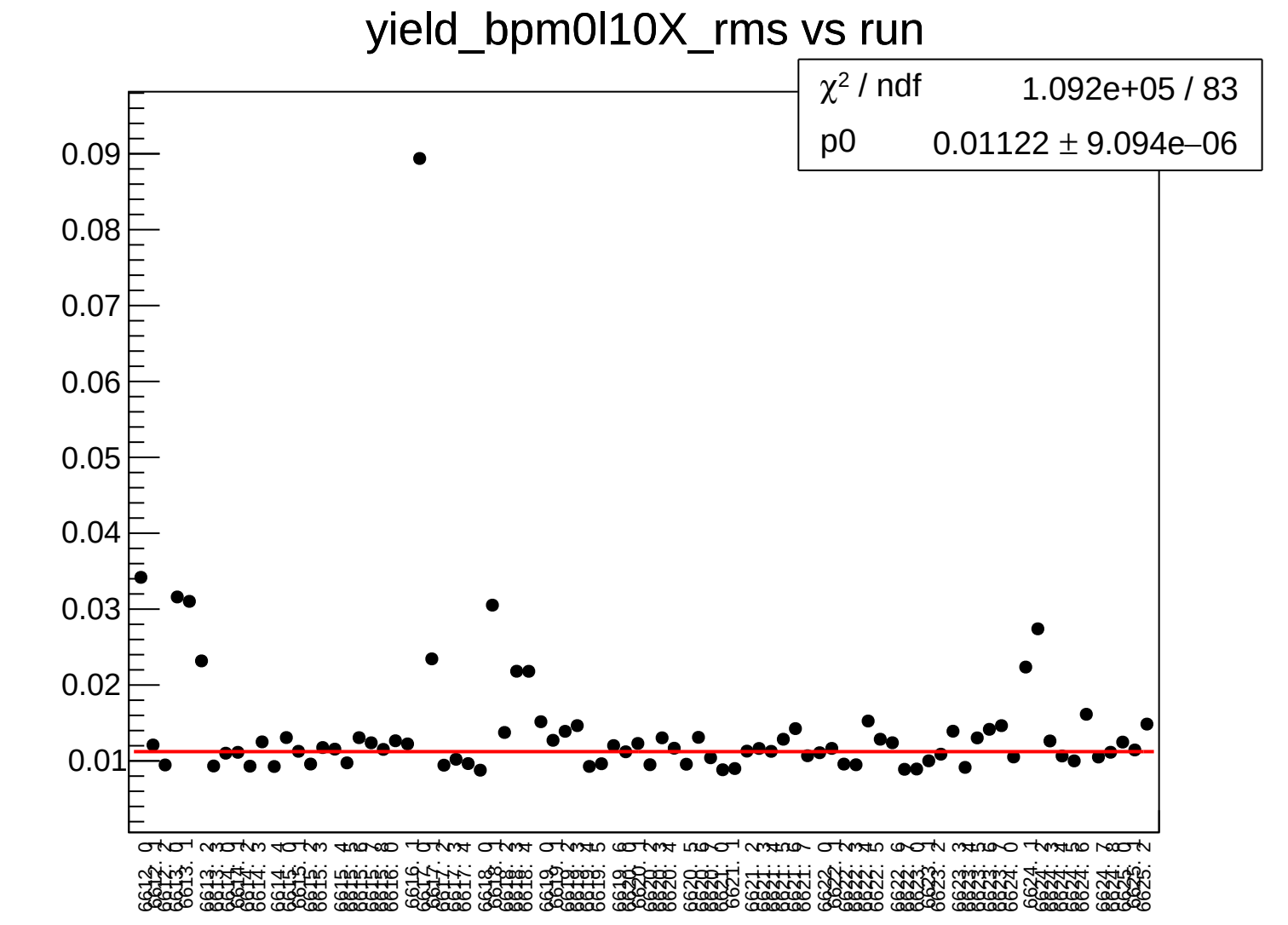

yield_bpm0l09Y_mean vs run
χ² / ndf 9.866e+06 / 83
p0 0.05568 ± 5.248e−06
0.25
0.2
0.15
0.1
0.05
pull
Entries 84
Mean 39.7
Std Dev 46.54
800
600
400
200
0
−200
−400
−600
−800
−1000

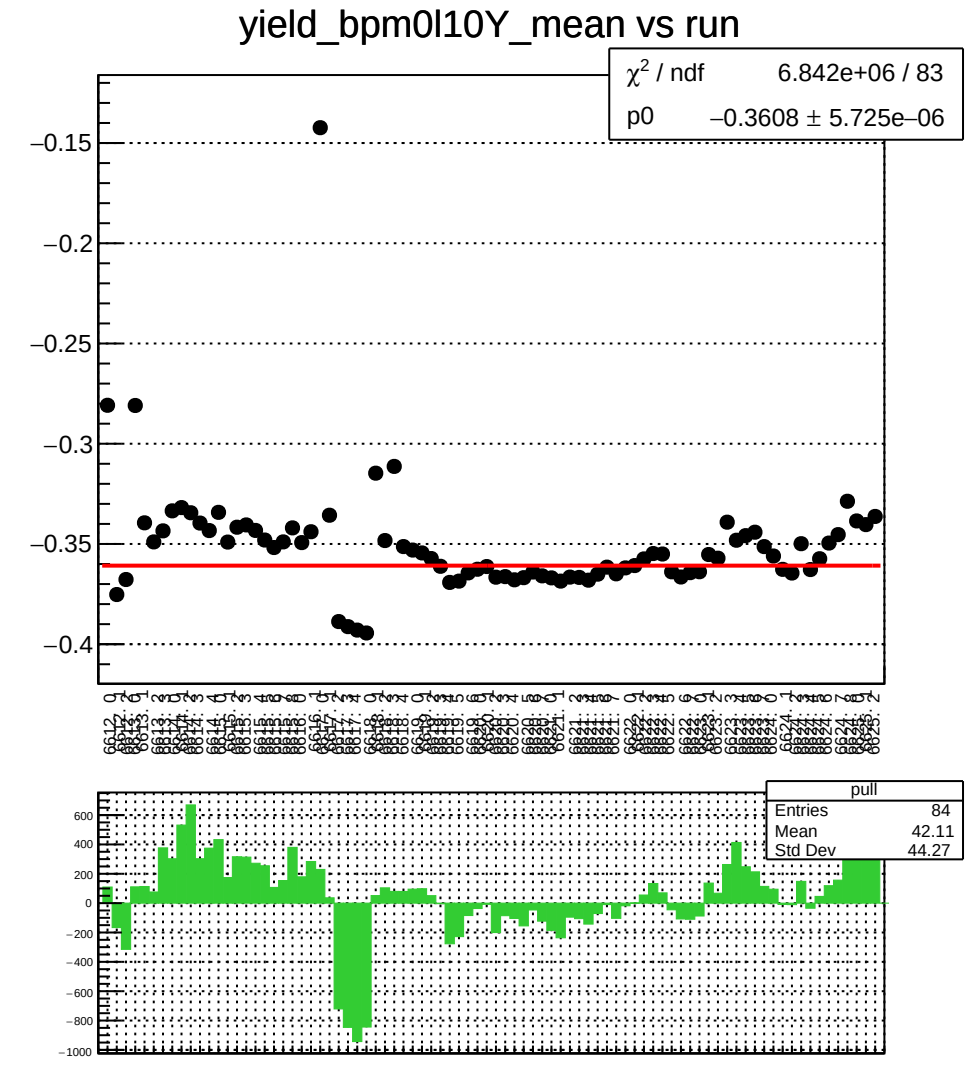

pull1D
Entries 84
Mean −0.8072
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

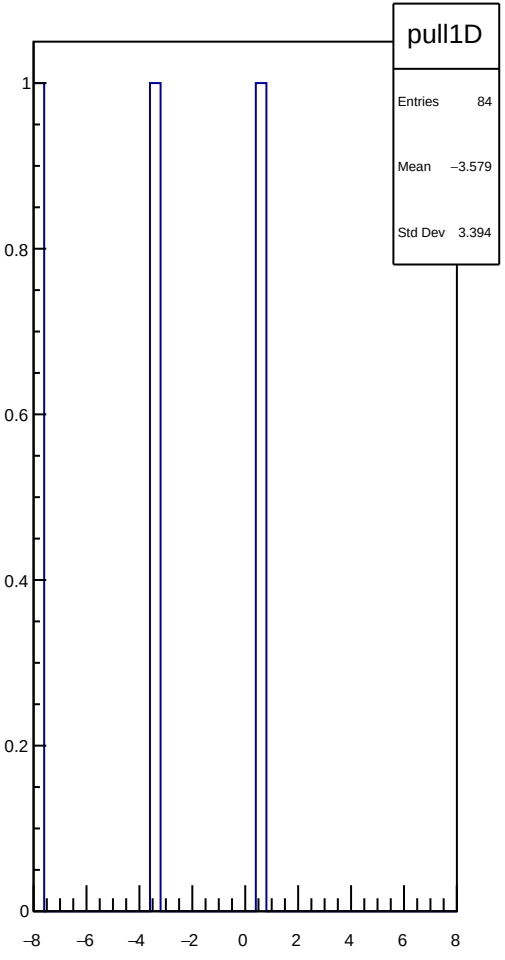

yield_bpm0l09Y_rms vs run
χ² / ndf 2.584e+05 / 83
p0 0.00435 ± 3.711e–06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

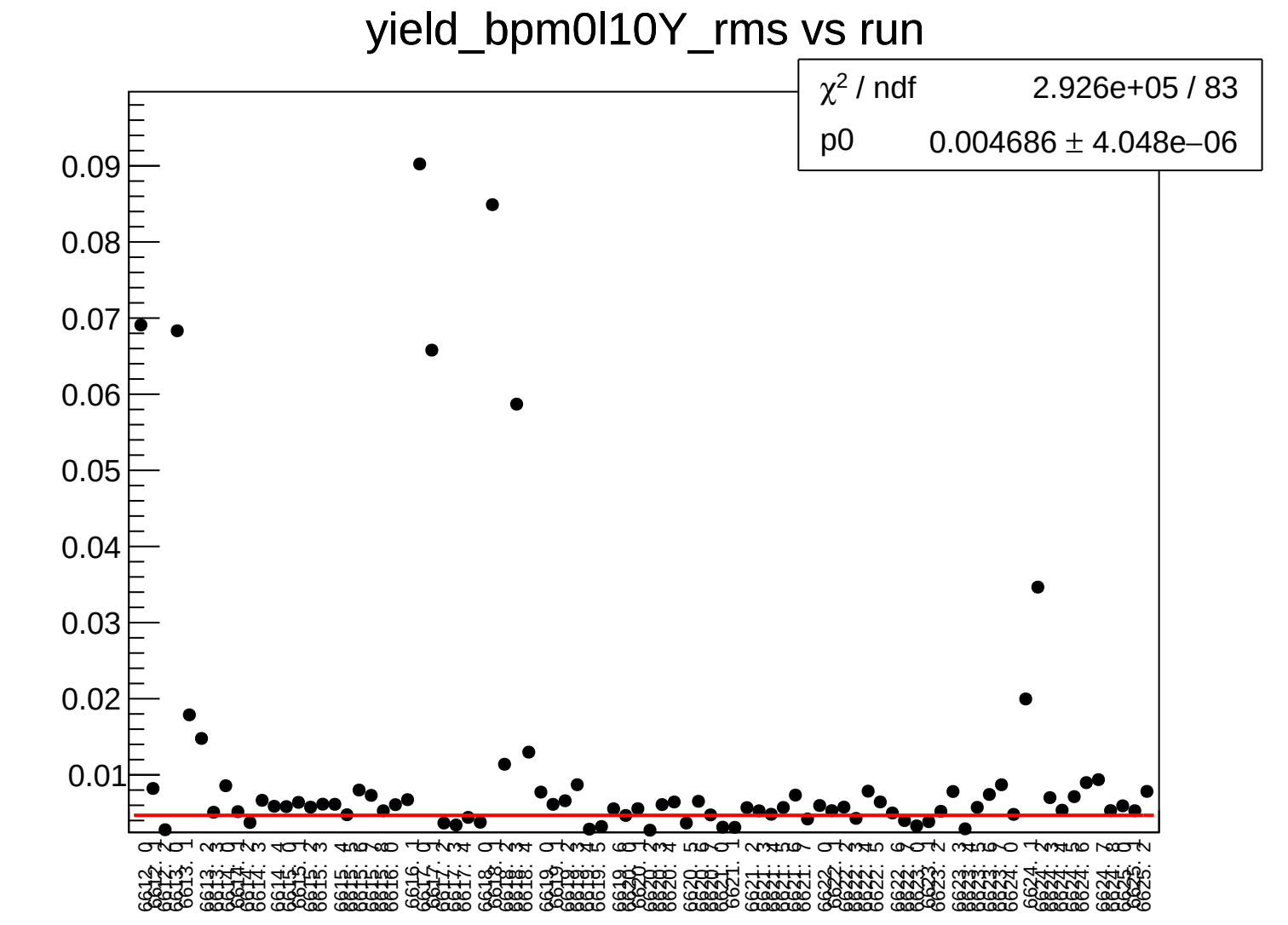

yield_bpm0l10X_mean vs run
χ² / ndf 1.429e+05 / 83
p0 −0.9562 ± 1.286e−05
−0.94
−0.96
−0.98
−1
−1.02
−1.04
−1.06
−1.08
pull
Entries 84
Mean 97.11
Std Dev 0
100
50
0
−50
−100

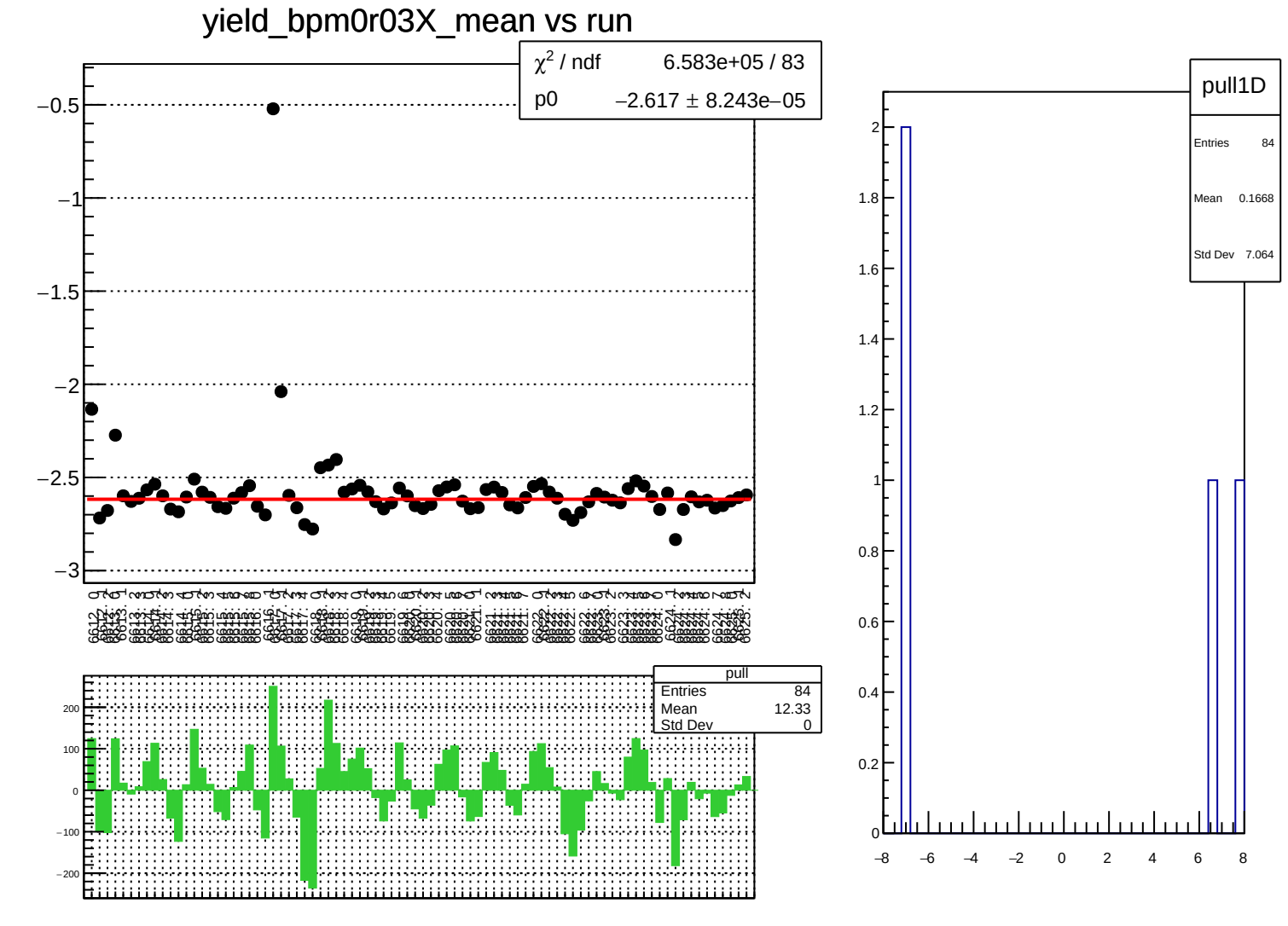

pull1D
Entries 84
Mean 0.589
Std Dev 4.835
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

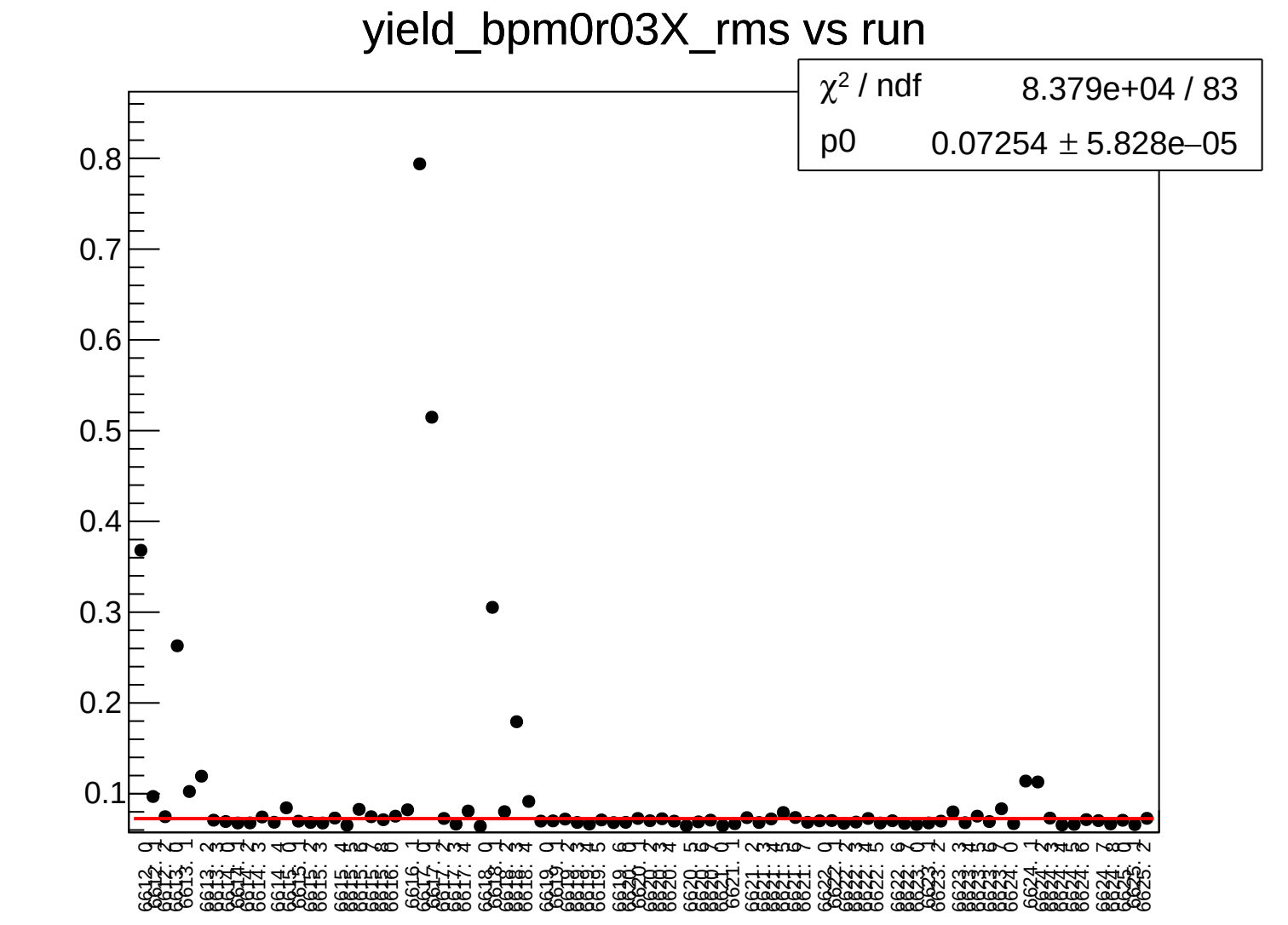

yield_bpm0l10X_rms vs run
χ² / ndf 1.092e+05 / 83
p0 0.01122 ± 9.094e–06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

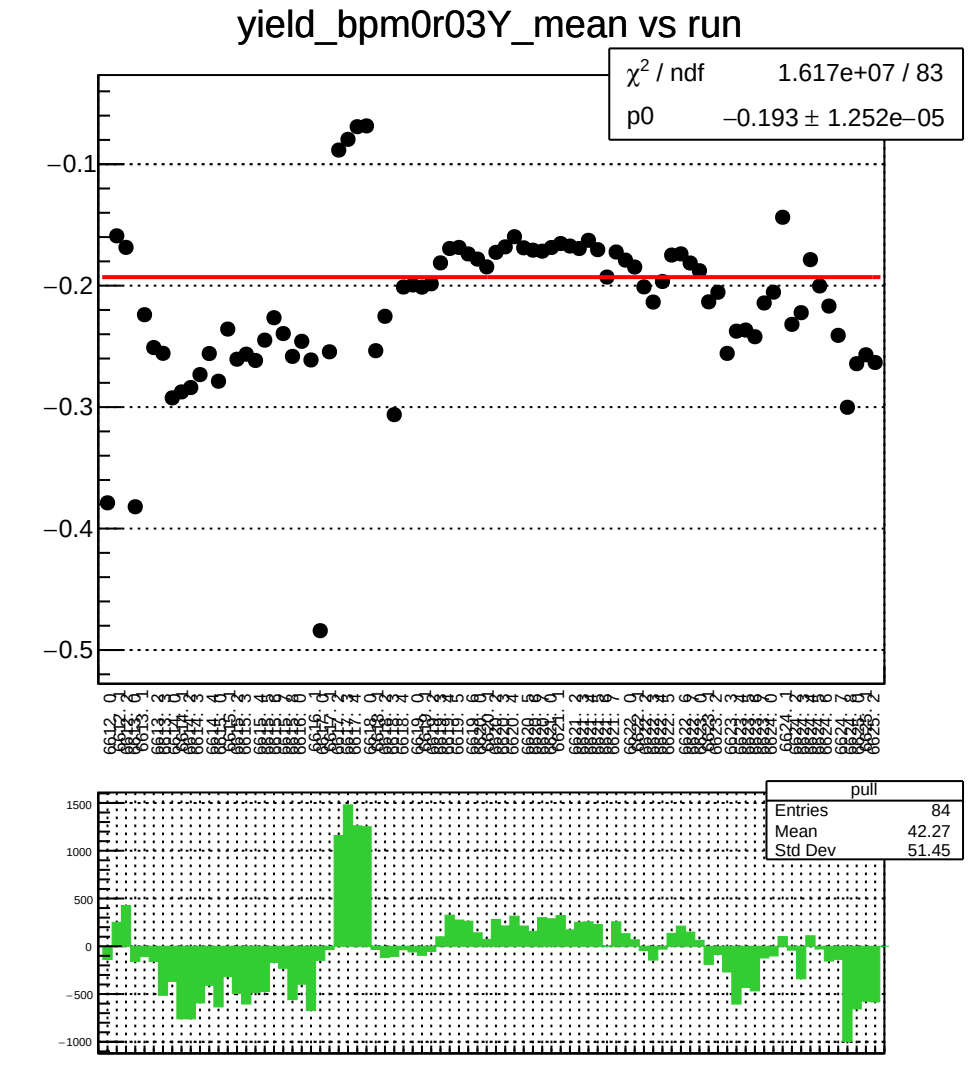

yield_bpm0l10Y_mean vs run
χ² / ndf 6.842e+06 / 83
p0 −0.3608 ± 5.725e−06
pull
Entries 84
Mean 42.11
Std Dev 44.27

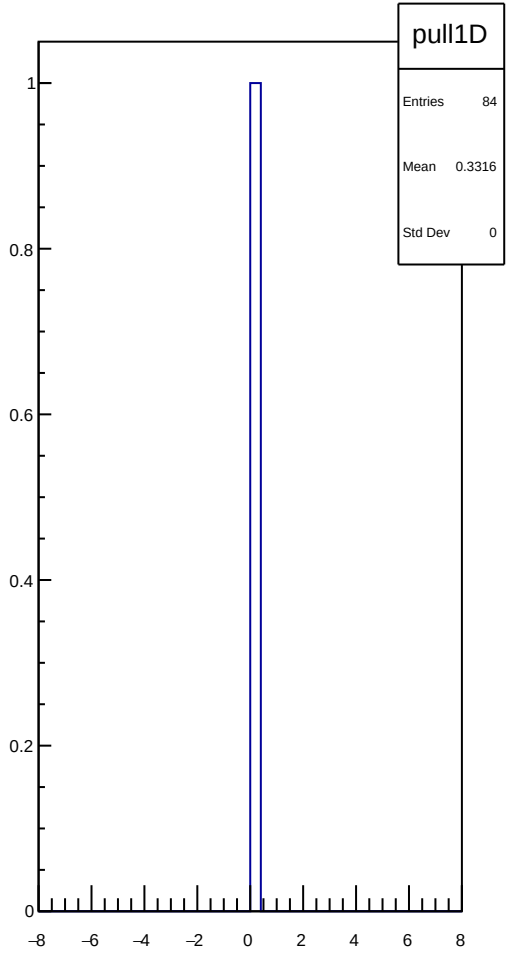

pull1D
Entries 84
Mean −3.579
Std Dev 3.394

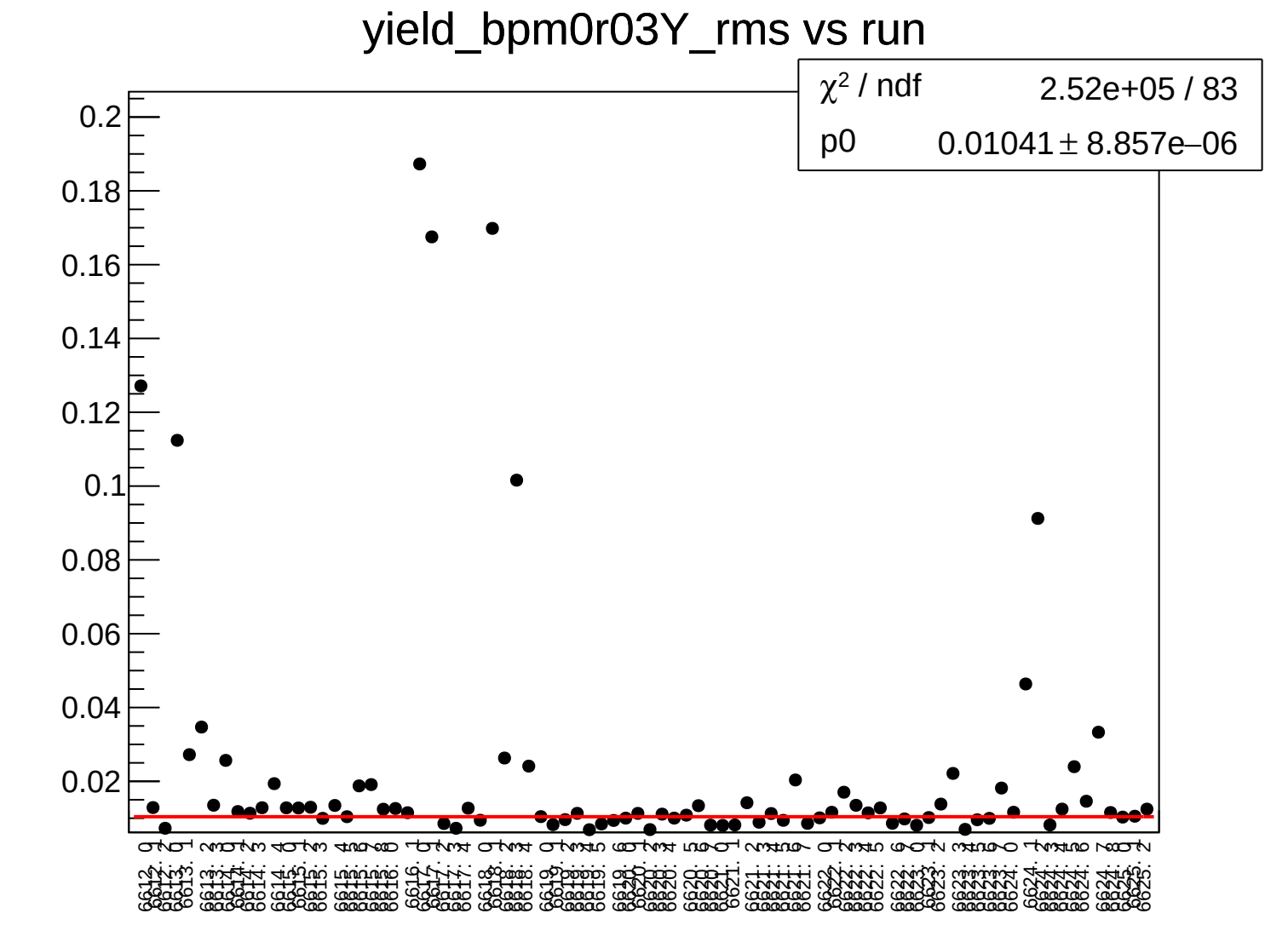

yield_bpm0l10Y_rms vs run
χ² / ndf 2.926e+05 / 83
p0 0.004686 ± 4.048e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

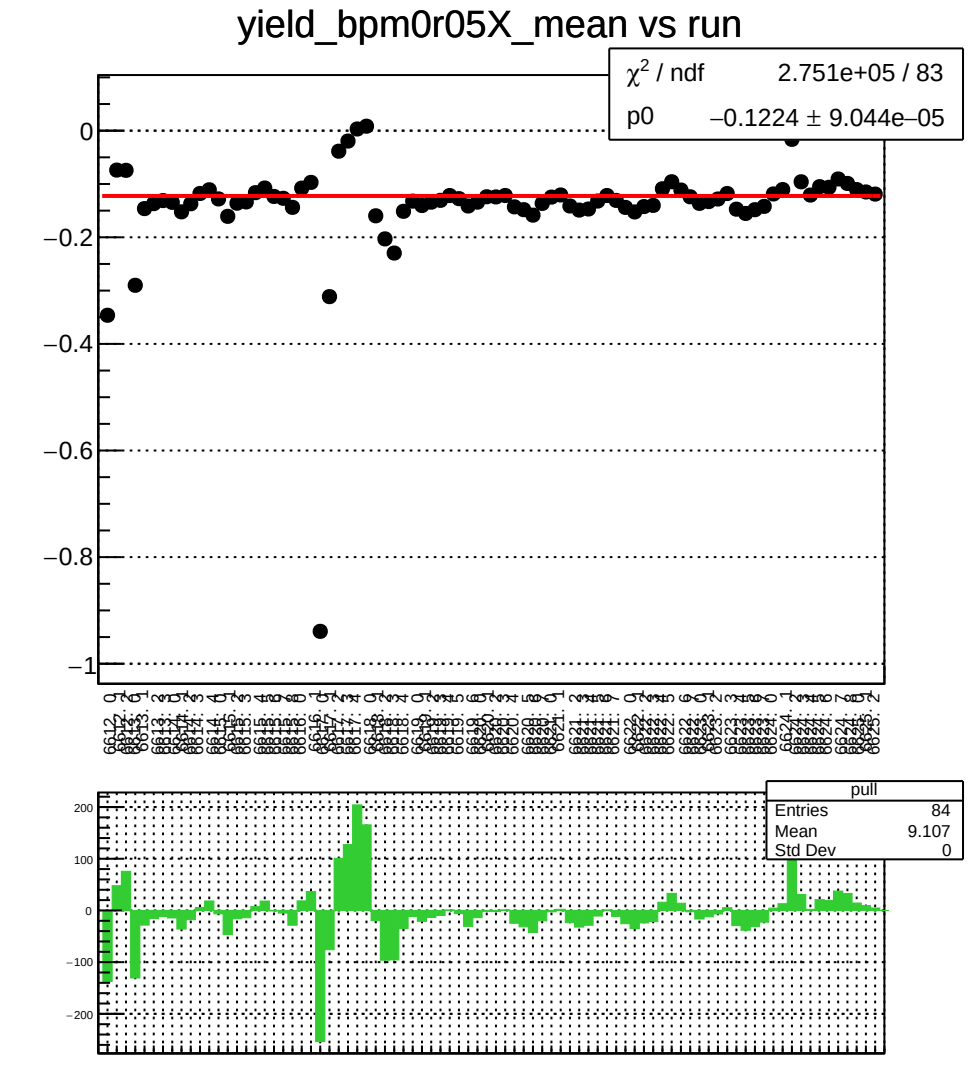

yield_bpm0r03X_mean vs run
χ² / ndf 6.583e+05 / 83
p0 −2.617 ± 8.243e−05
pull
Entries 84
Mean 12.33
Std Dev 0
pull1D
Entries 84
Mean 0.1668
Std Dev 7.064

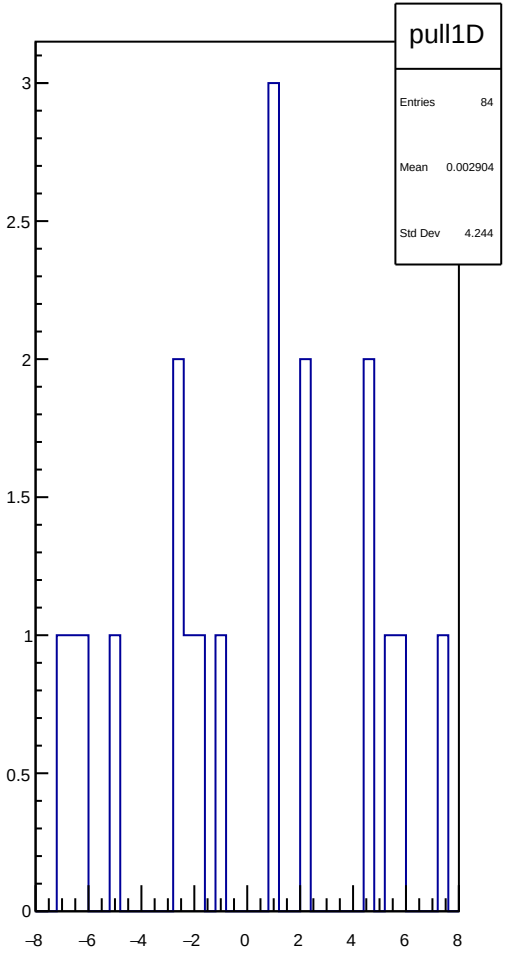

yield_bpm0r03X_rms vs run
χ² / ndf 8.379e+04 / 83
p0 0.07254 ± 5.828e–05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

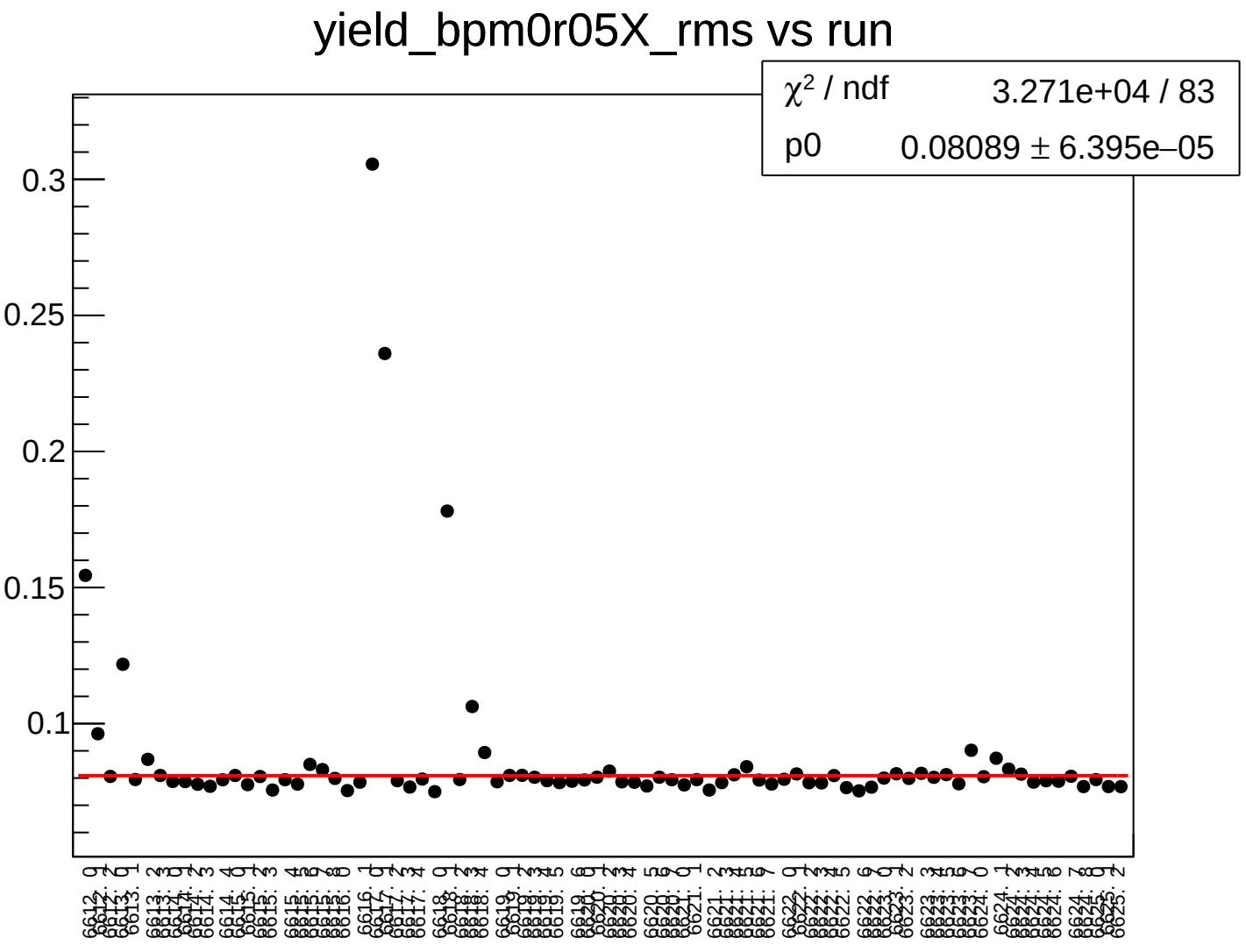

yield_bpm0r03Y_mean vs run
χ² / ndf 1.617e+07 / 83
p0 −0.193 ± 1.252e−05
−0.1
−0.2
−0.3
−0.4
−0.5
pull
Entries 84
Mean 42.27
Std Dev 51.45
1500
1000
500
0
−500
−1000

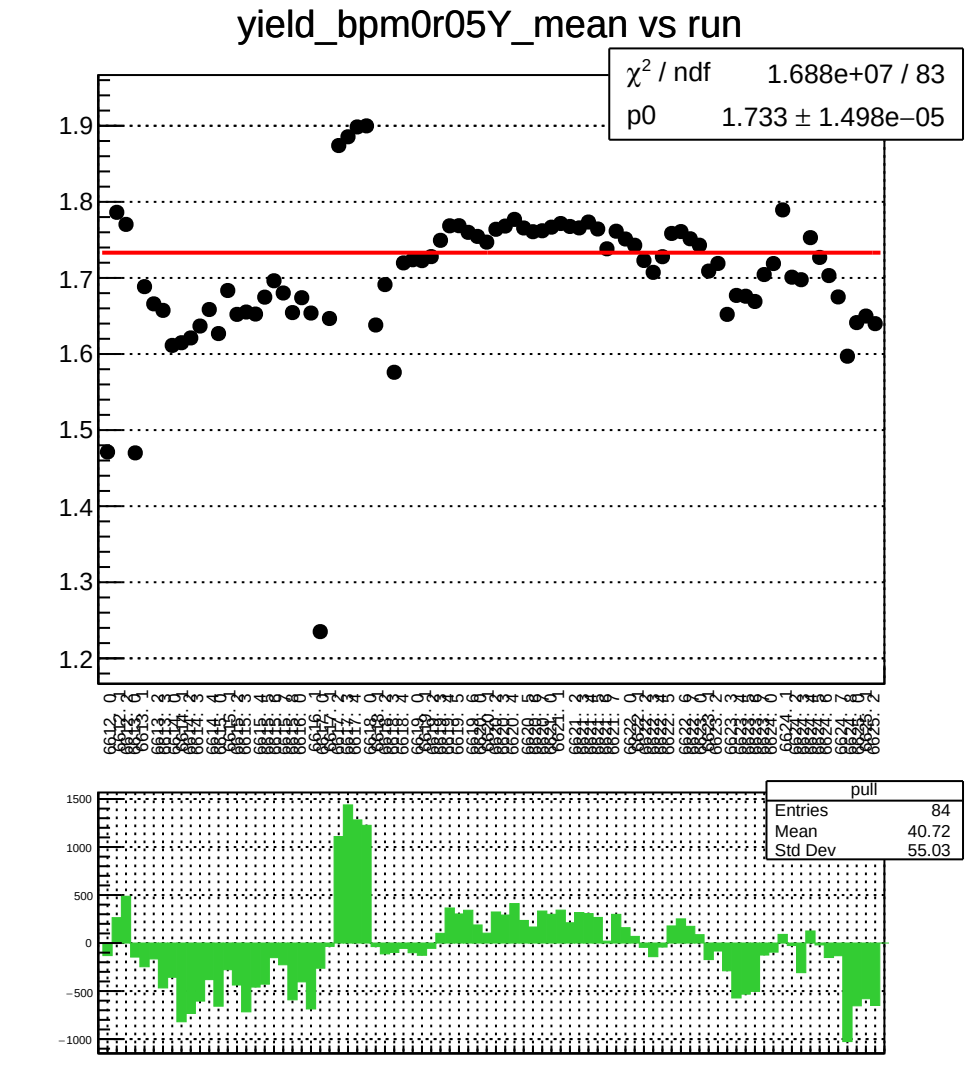

pull1D
Entries 84
Mean 0.3316
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

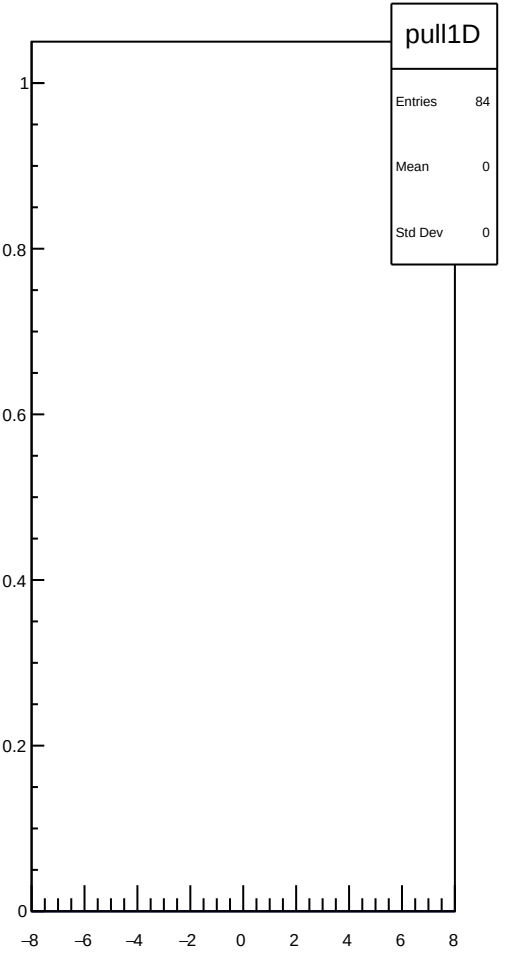

yield_bpm0r03Y_rms vs run
χ² / ndf 2.52e+05 / 83
p0 0.01041 ± 8.857e–06
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

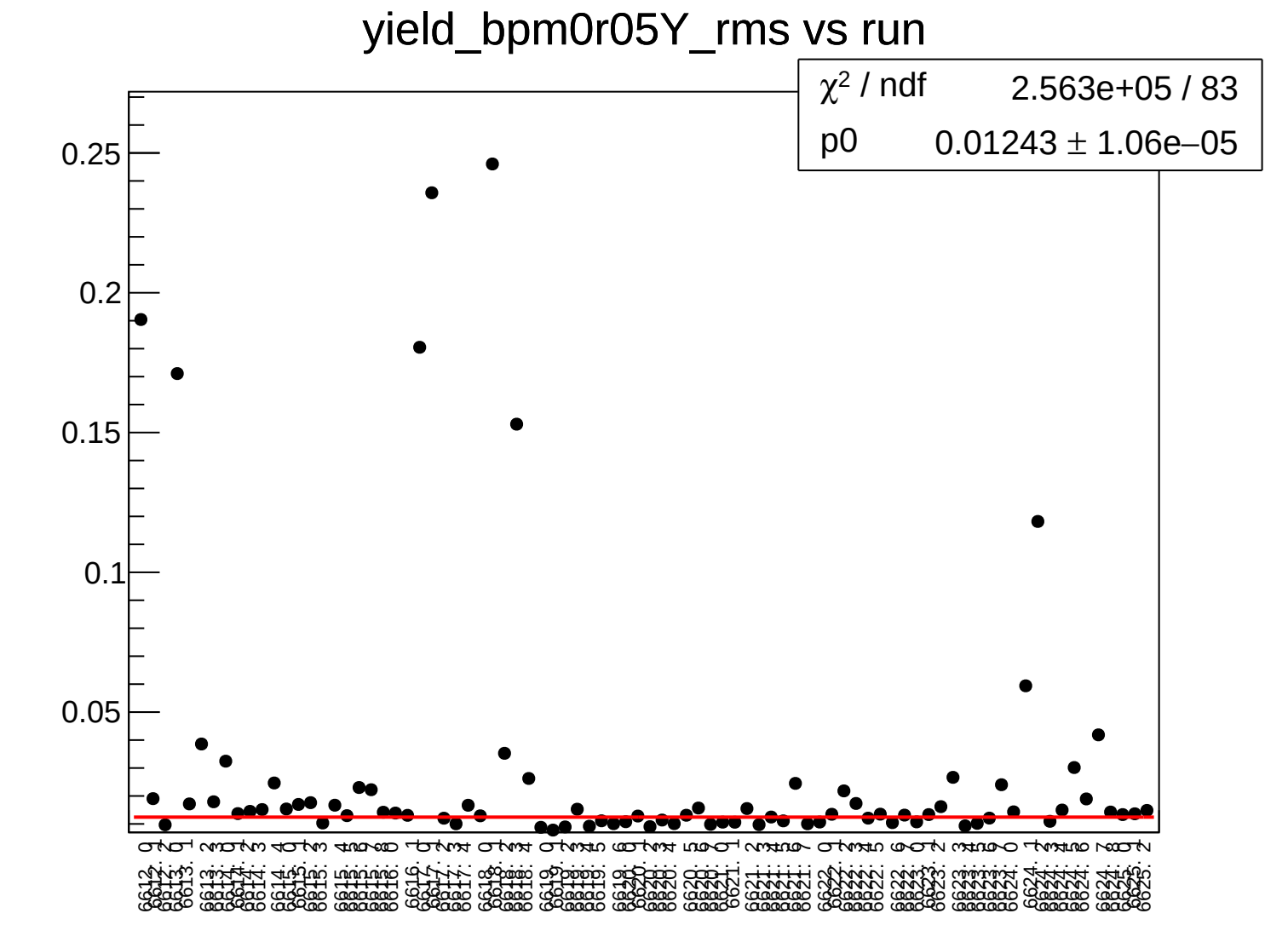

yield_bpm0r05X_mean vs run
χ² / ndf 2.751e+05 / 83
p0 −0.1224 ± 9.044e−05
pull
Entries 84
Mean 9.107
Std Dev 0

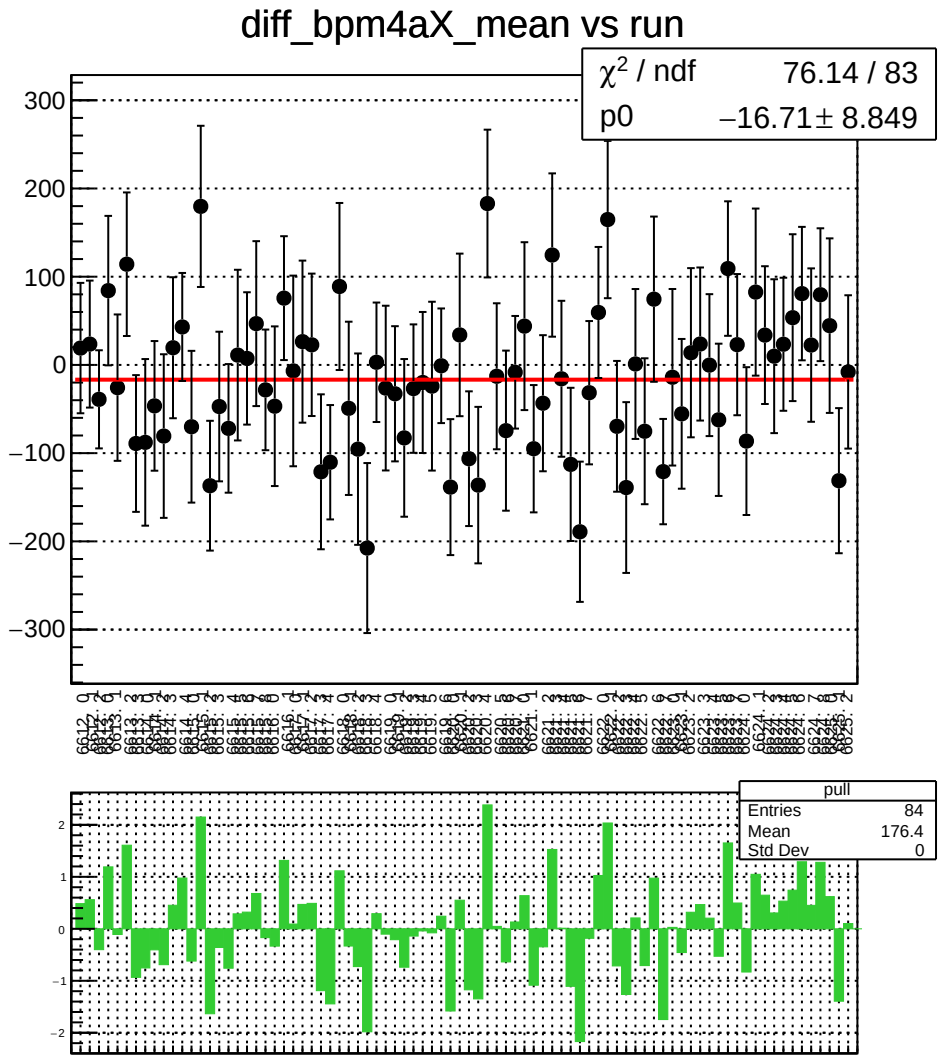

pull1D
Entries 84
Mean 0.002904
Std Dev 4.244

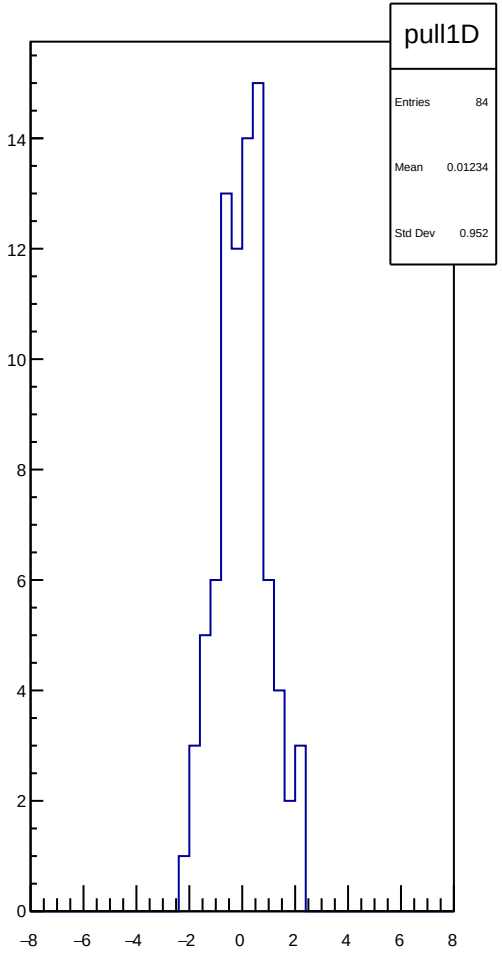

yield_bpm0r05X_rms vs run
χ² / ndf 3.271e+04 / 83
p0 0.08089 ± 6.395e–05
0.3
0.25
0.2
0.15
0.1

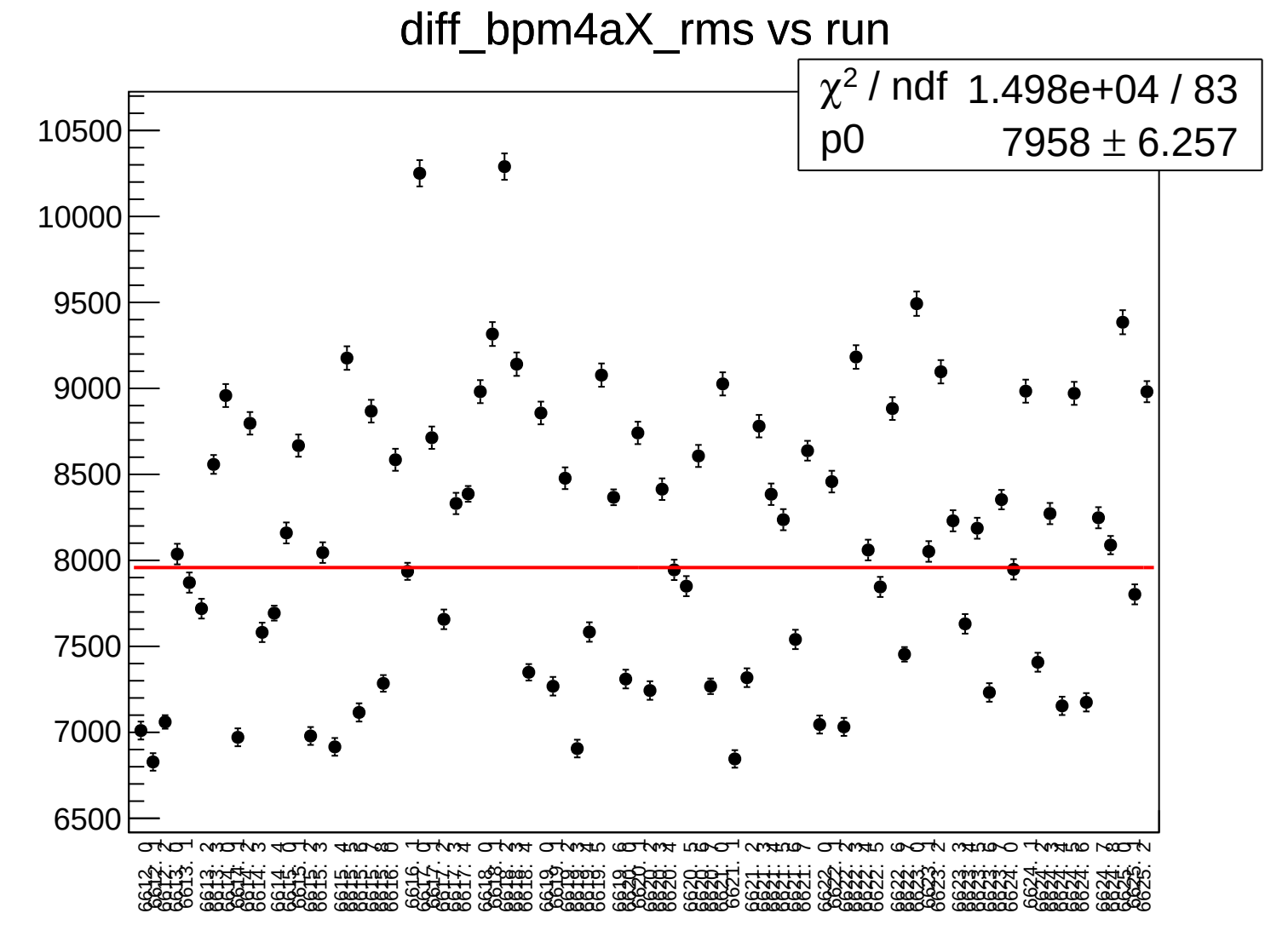

yield_bpm0r05Y_mean vs run
χ² / ndf 1.688e+07 / 83
p0 1.733 ± 1.498e−05
pull
Entries 84
Mean 40.72
Std Dev 55.03

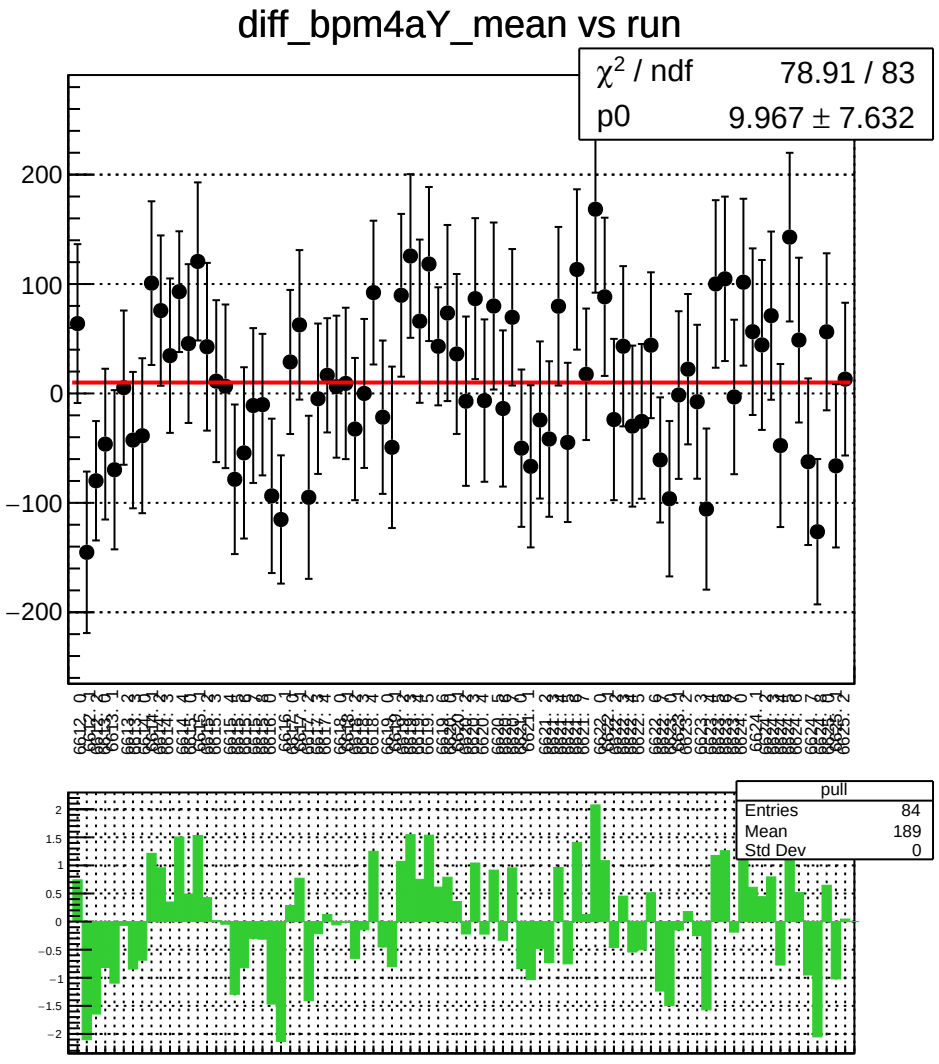

pull1D
Entries 84
Mean 0
Std Dev 0

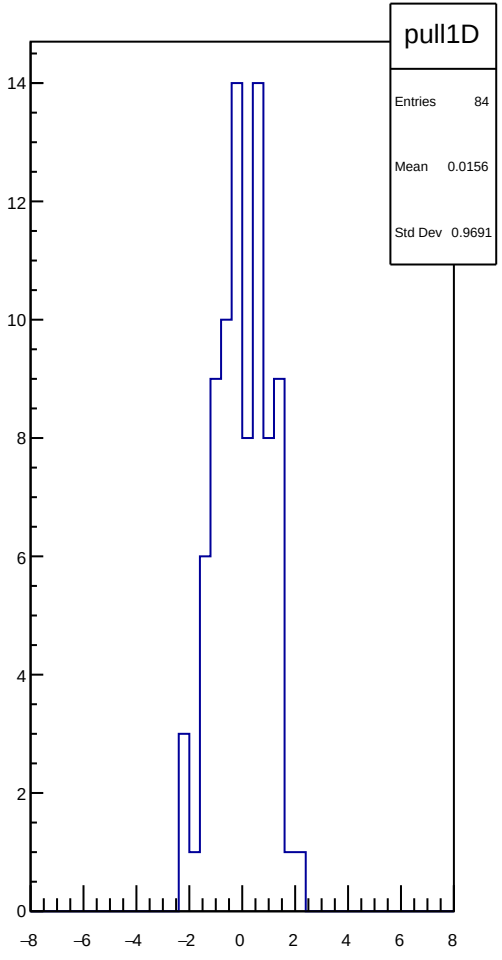

yield_bpm0r05Y_rms vs run
χ² / ndf 2.563e+05 / 83
p0 0.01243 ± 1.06e−05
0.25
0.2
0.15
0.1
0.05

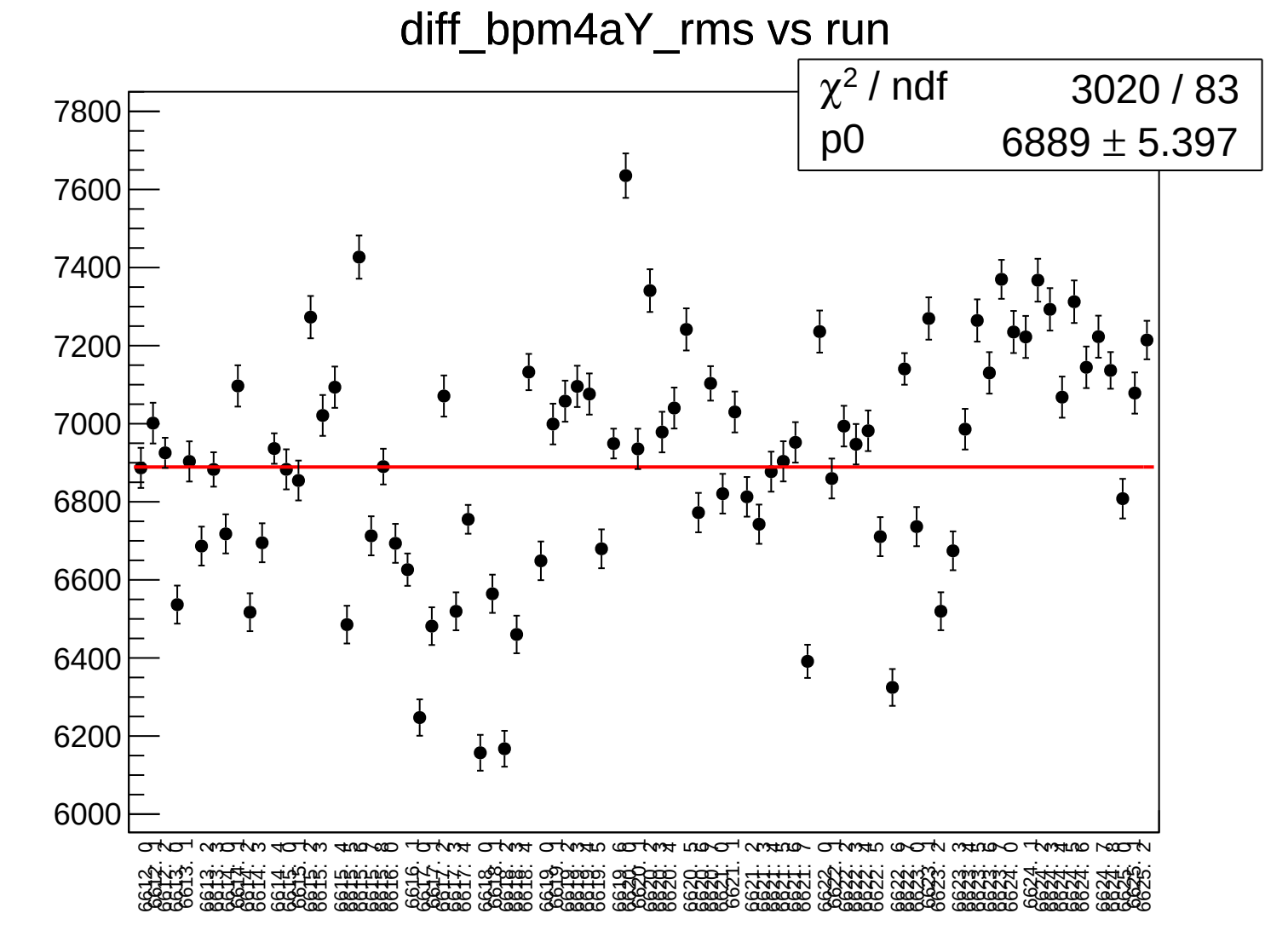

diff_bpm4aX_mean vs run
χ² / ndf 76.14 / 83
p0 −16.71± 8.849
pull
Entries 84
Mean 176.4
Std Dev 0

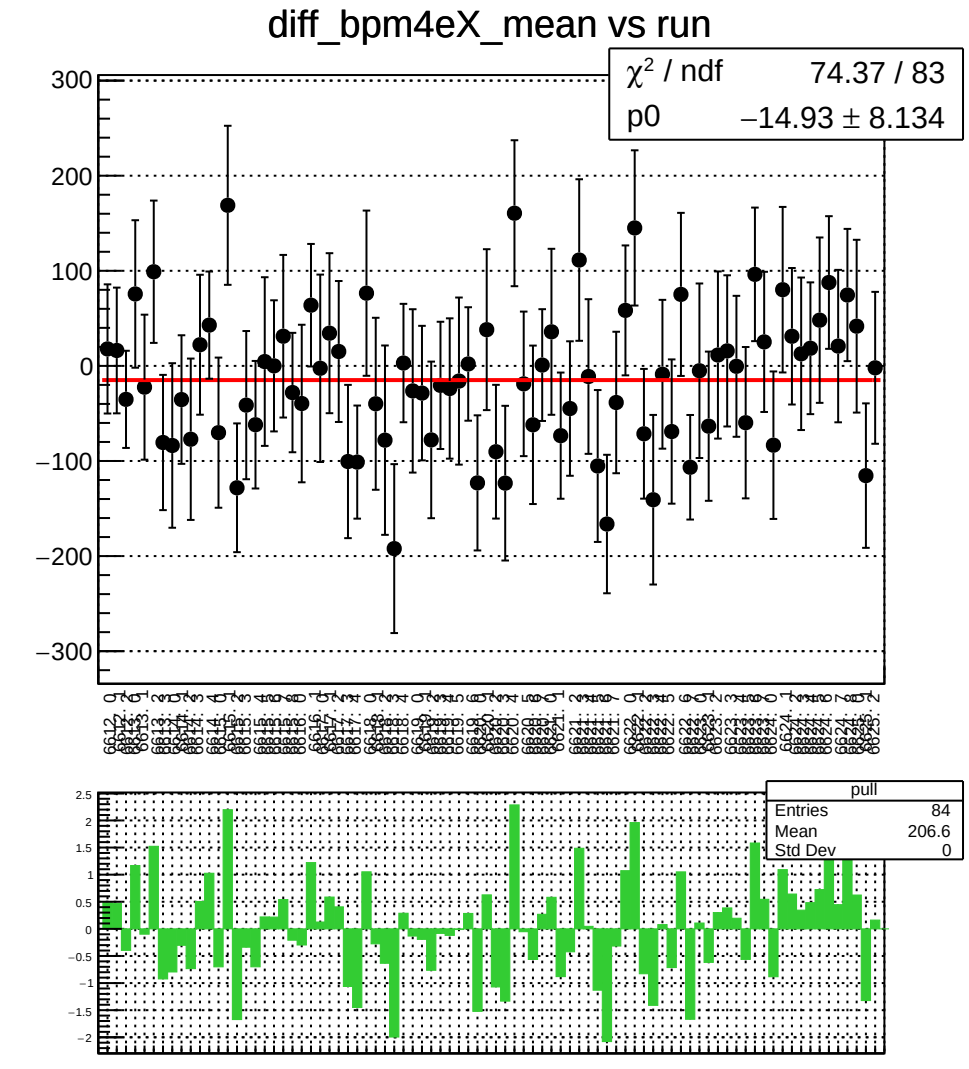

pull1D
Entries 84
Mean 0.01234
Std Dev 0.952

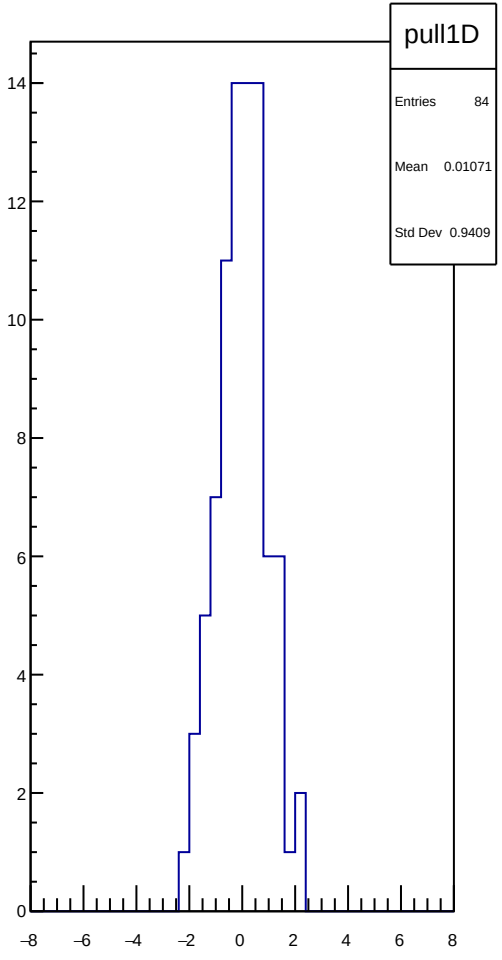

diff_bpm4aX_rms vs run
χ² / ndf 1.498e+04 / 83
p0 7958 ± 6.257
10500
10000
9500
9000
8500
8000
7500
7000
6500

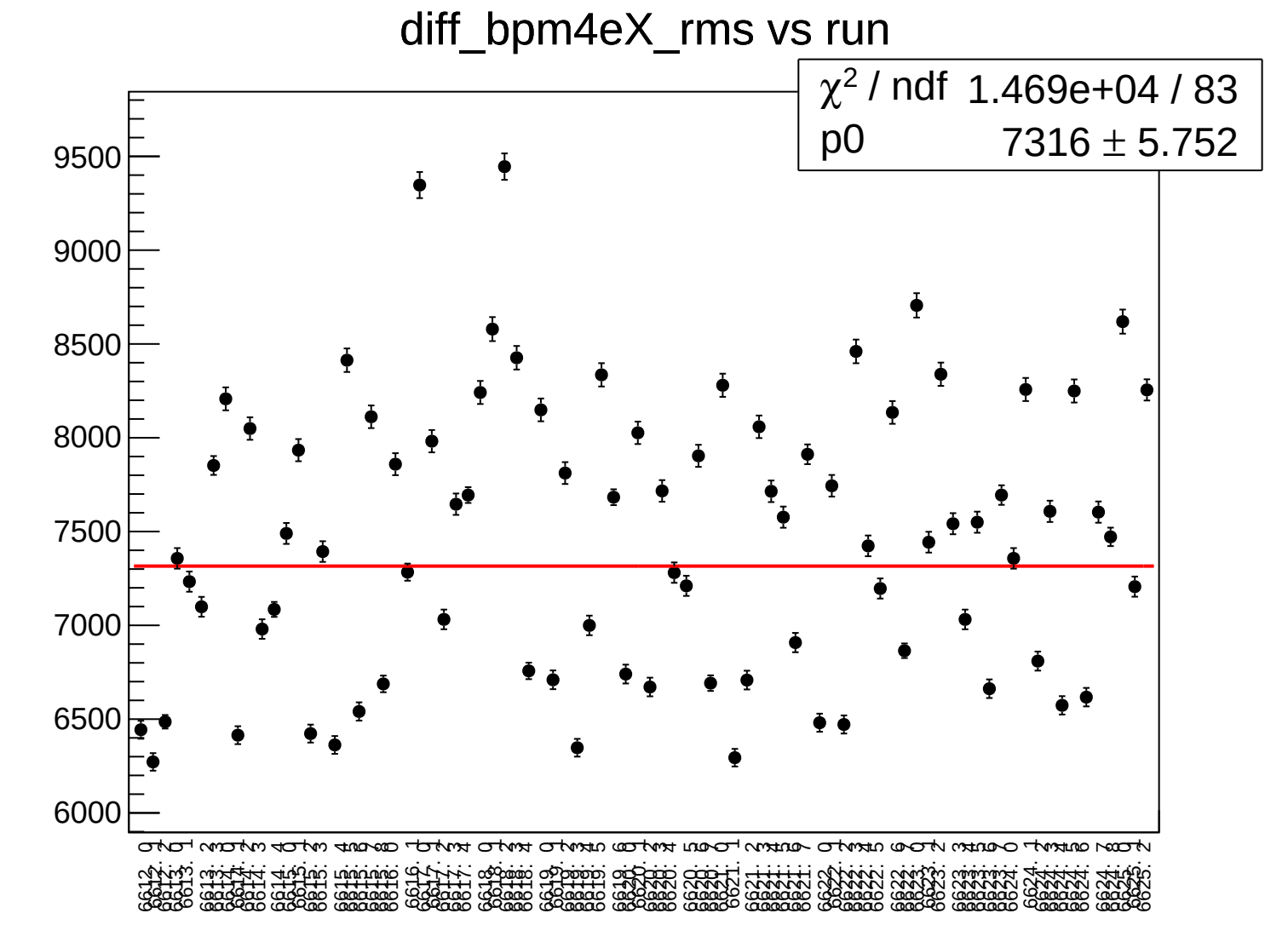

diff_bpm4aY_mean vs run
χ² / ndf 78.91 / 83
p0 9.967 ± 7.632
200
100
0
−100
−200
pull
Entries 84
Mean 189
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

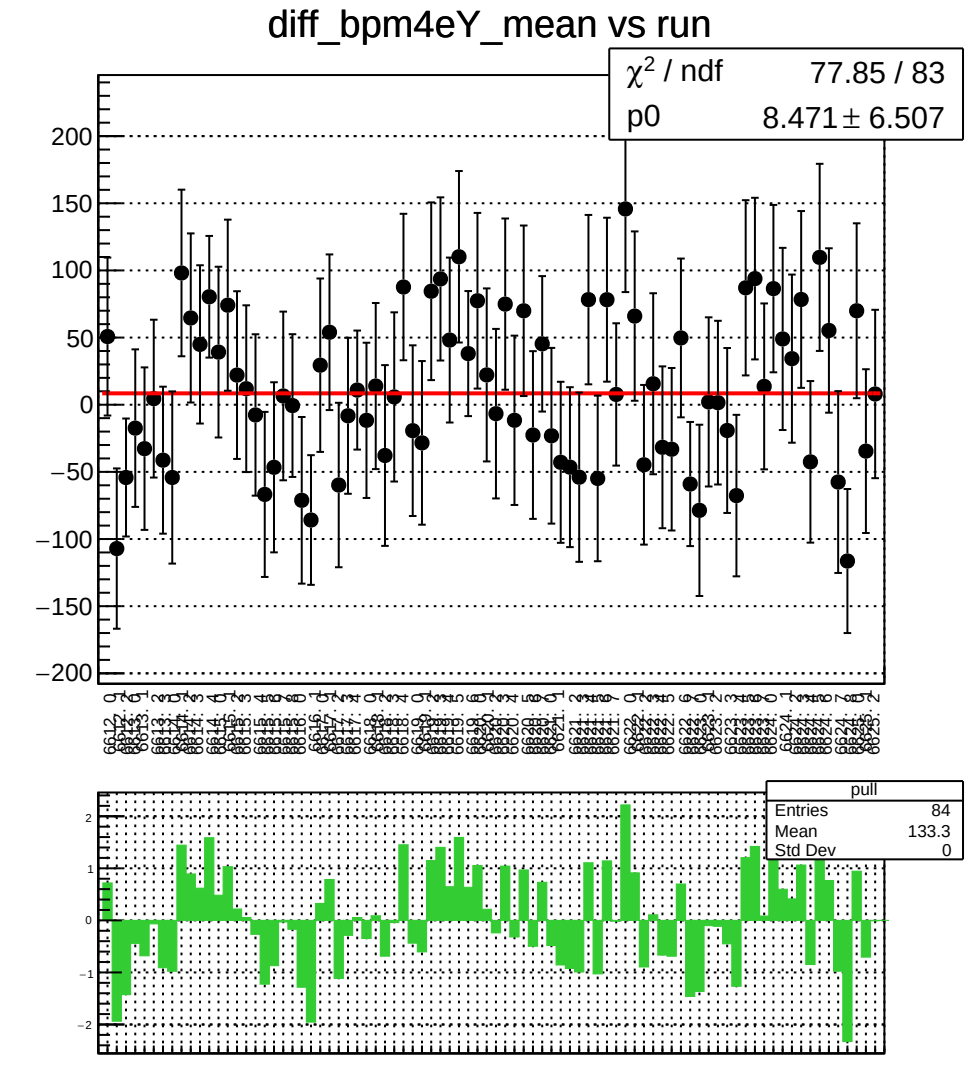

pull1D
Entries 84
Mean 0.0156
Std Dev 0.9691
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

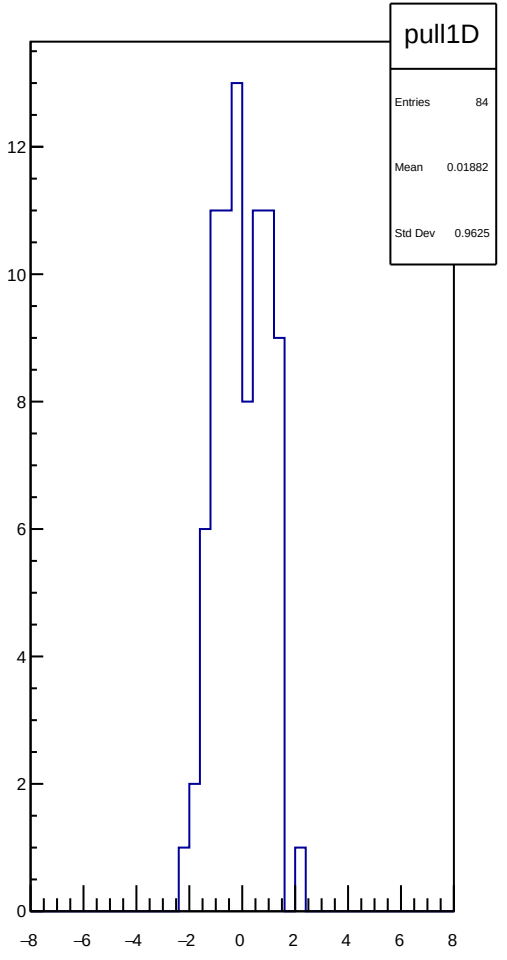

diff_bpm4aY_rms vs run
χ² / ndf 3020 / 83
p0 6889 ± 5.397
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

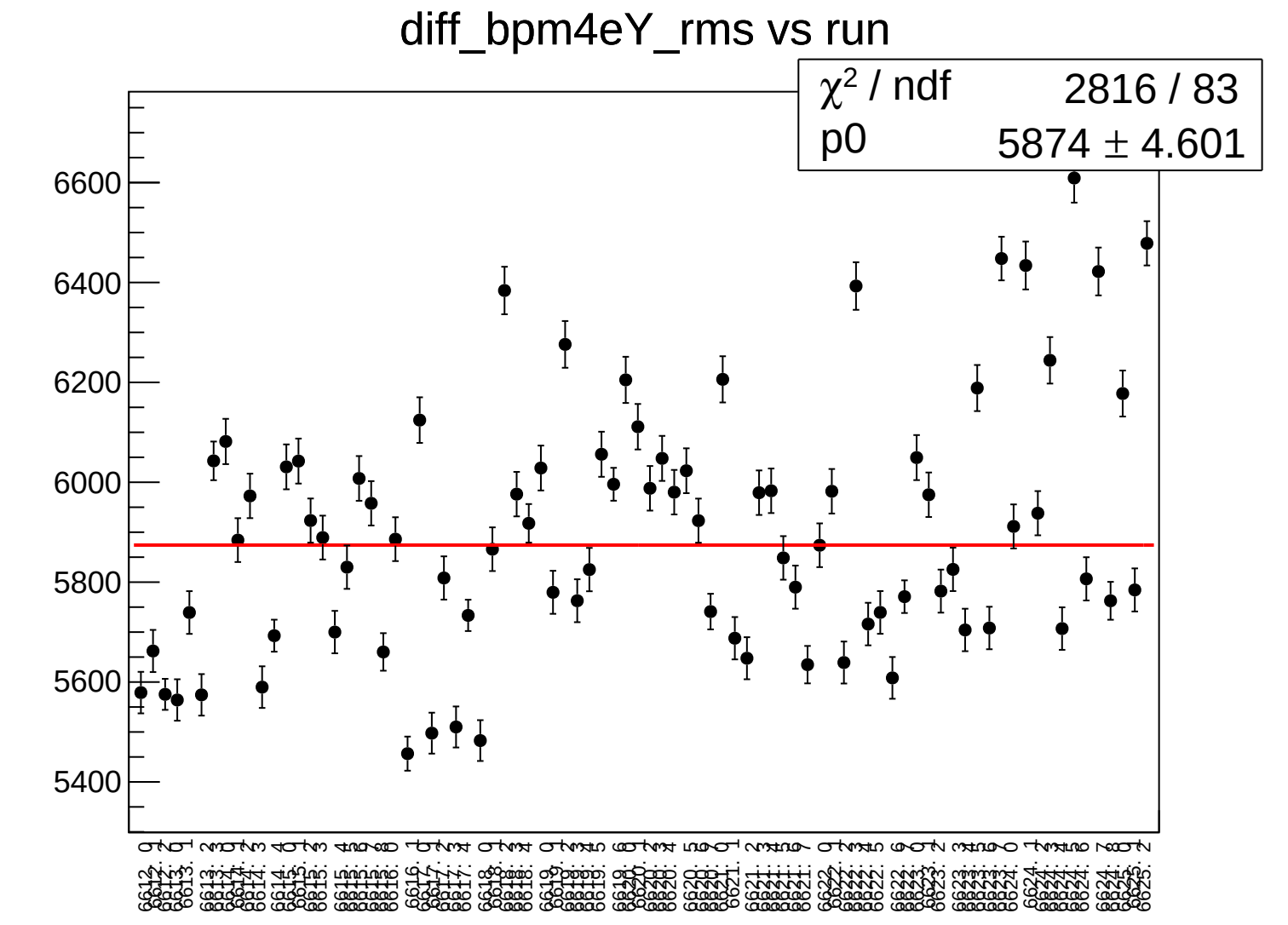

diff_bpm4eX_mean vs run
χ² / ndf 74.37 / 83
p0 −14.93 ± 8.134
pull
Entries 84
Mean 206.6
Std Dev 0

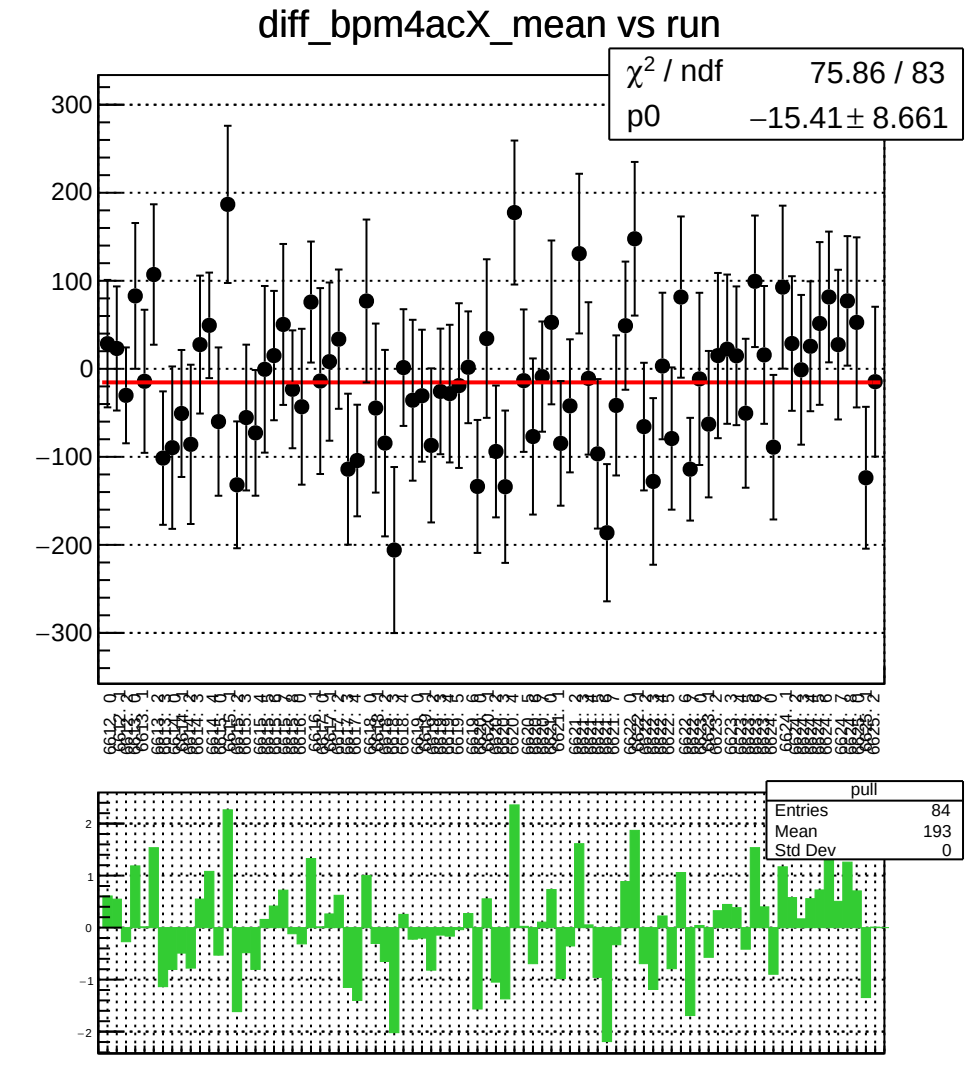

pull1D
Entries 84
Mean 0.01071
Std Dev 0.9409

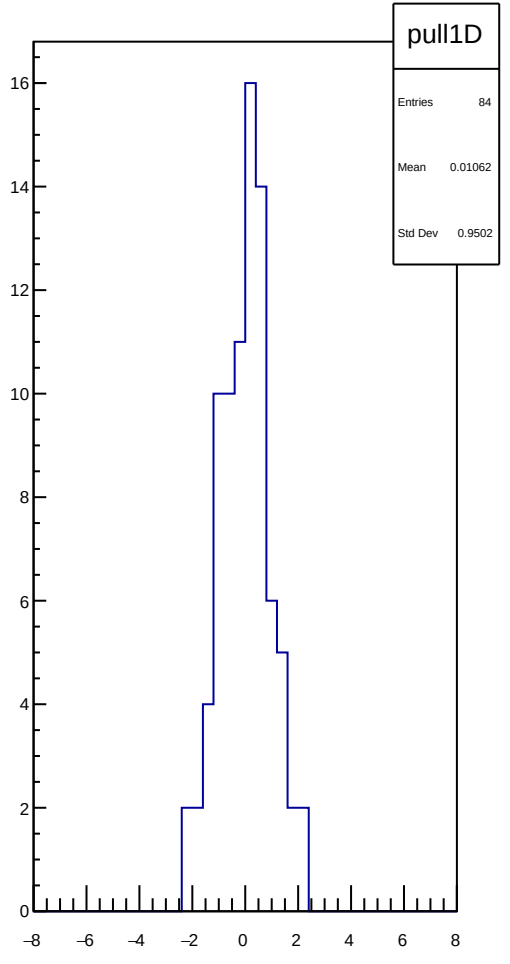

diff_bpm4eX_rms vs run
χ² / ndf 1.469e+04 / 83
p0 7316 ± 5.752
9500
9000
8500
8000
7500
7000
6500
6000

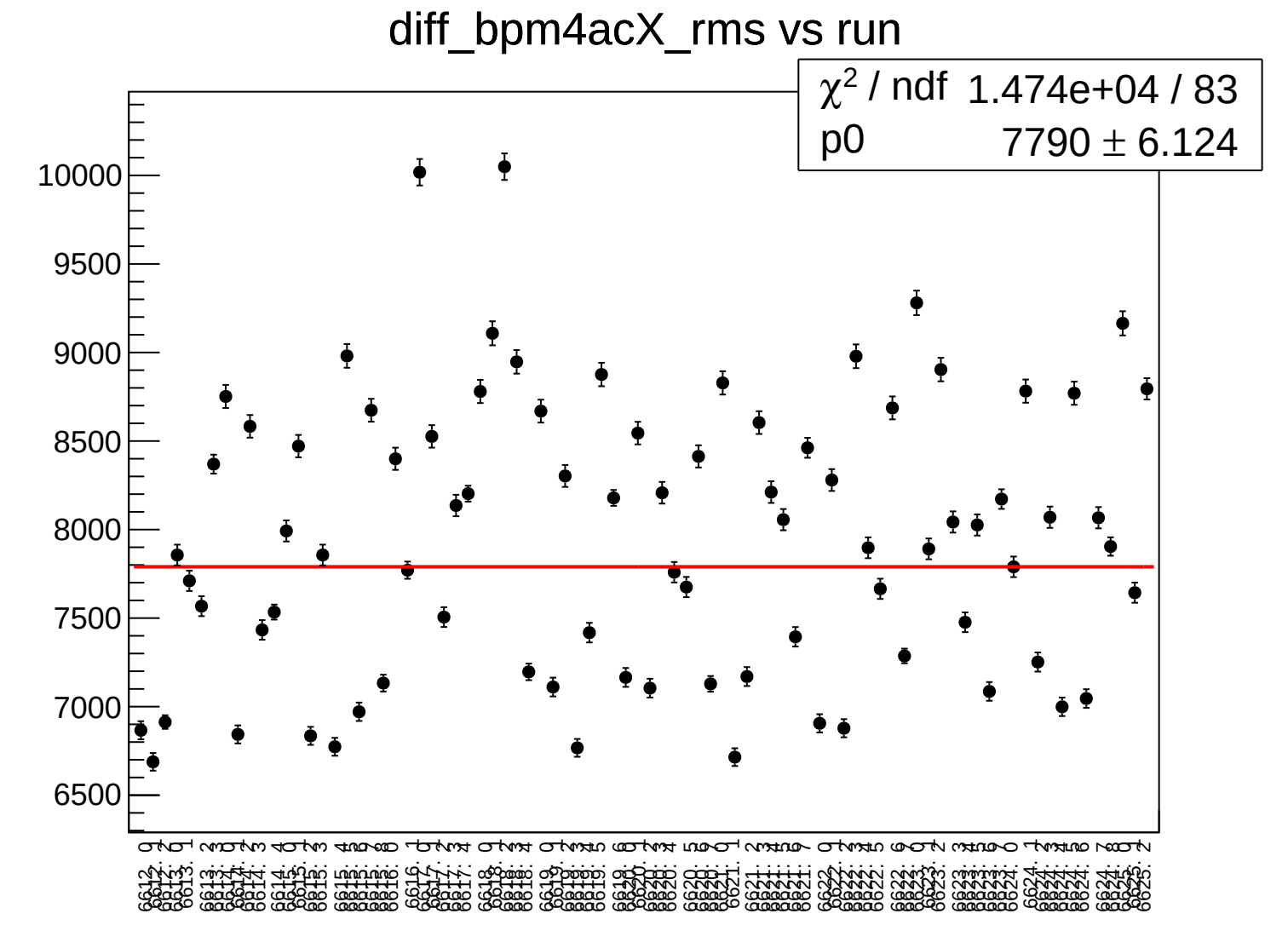

diff_bpm4eY_mean vs run
χ² / ndf 77.85 / 83
p0 8.471 ± 6.507
pull
Entries 84
Mean 133.3
Std Dev 0

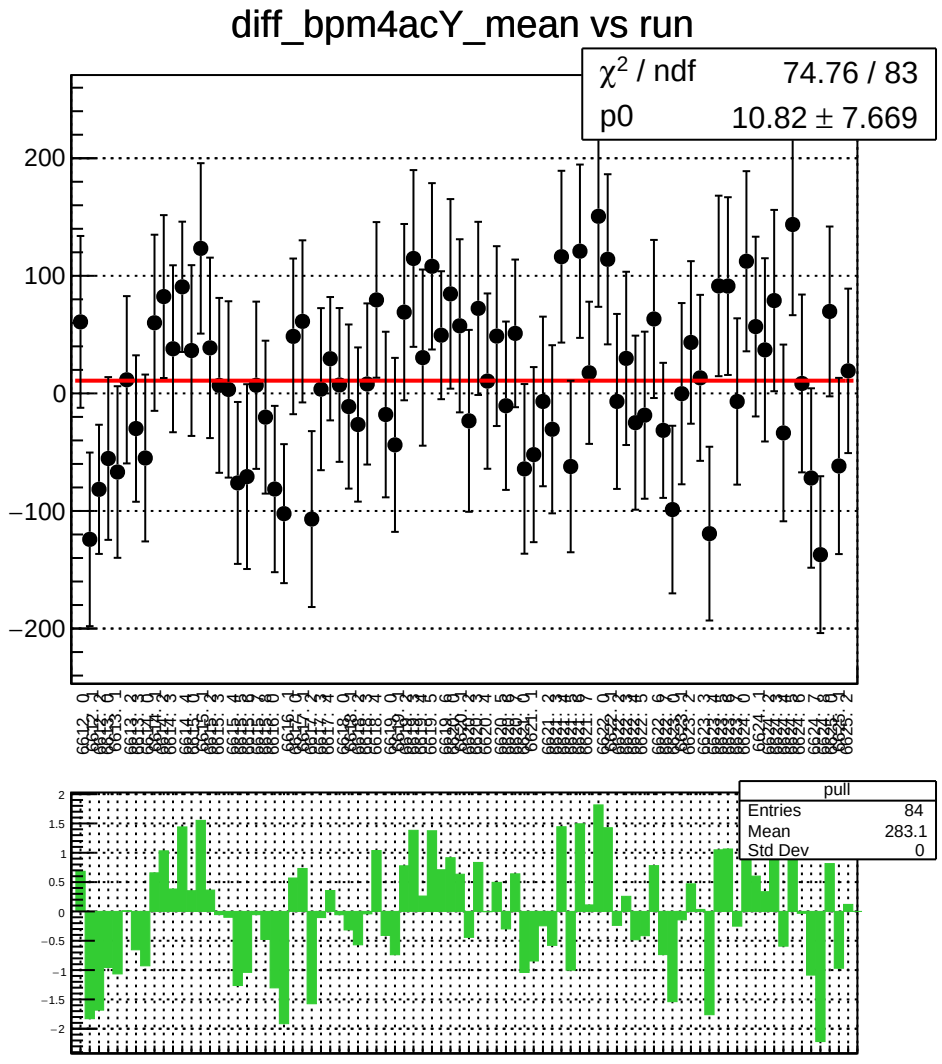

pull1D
Entries 84
Mean 0.01882
Std Dev 0.9625

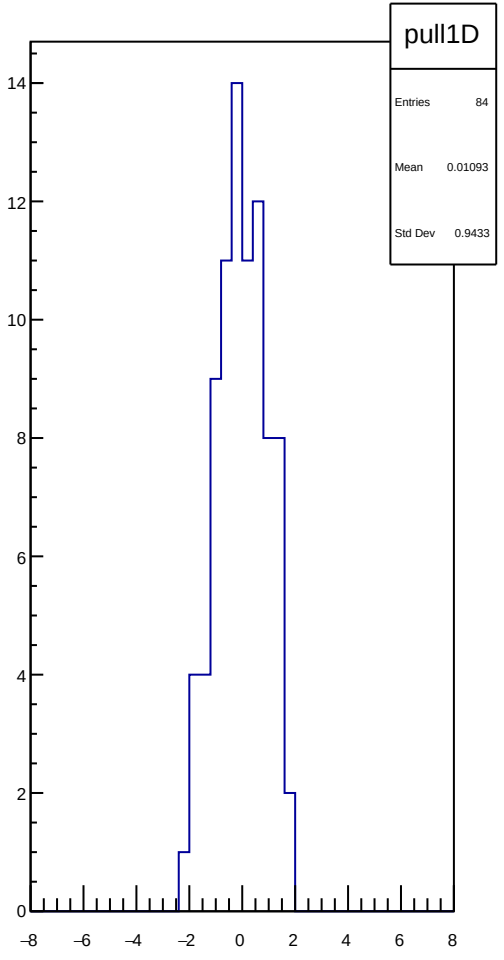

diff_bpm4eY_rms vs run
χ² / ndf 2816 / 83
p0 5874 ± 4.601
6600
6400
6200
6000
5800
5600
5400

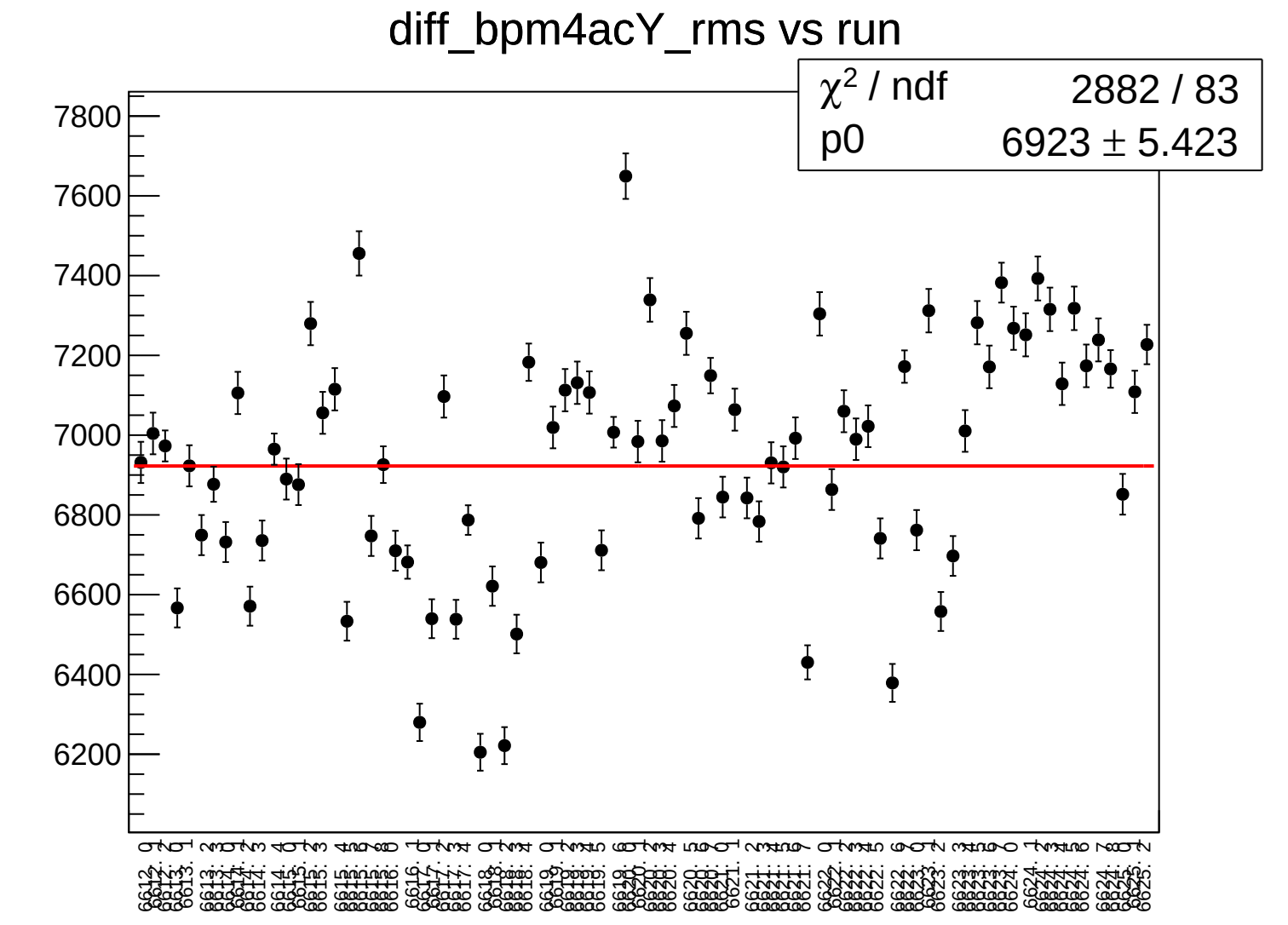

diff_bpm4acX_mean vs run
χ² / ndf 75.86 / 83
p0 −15.41 ± 8.661
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean 193
Std Dev 0
2
1
0
−1
−2

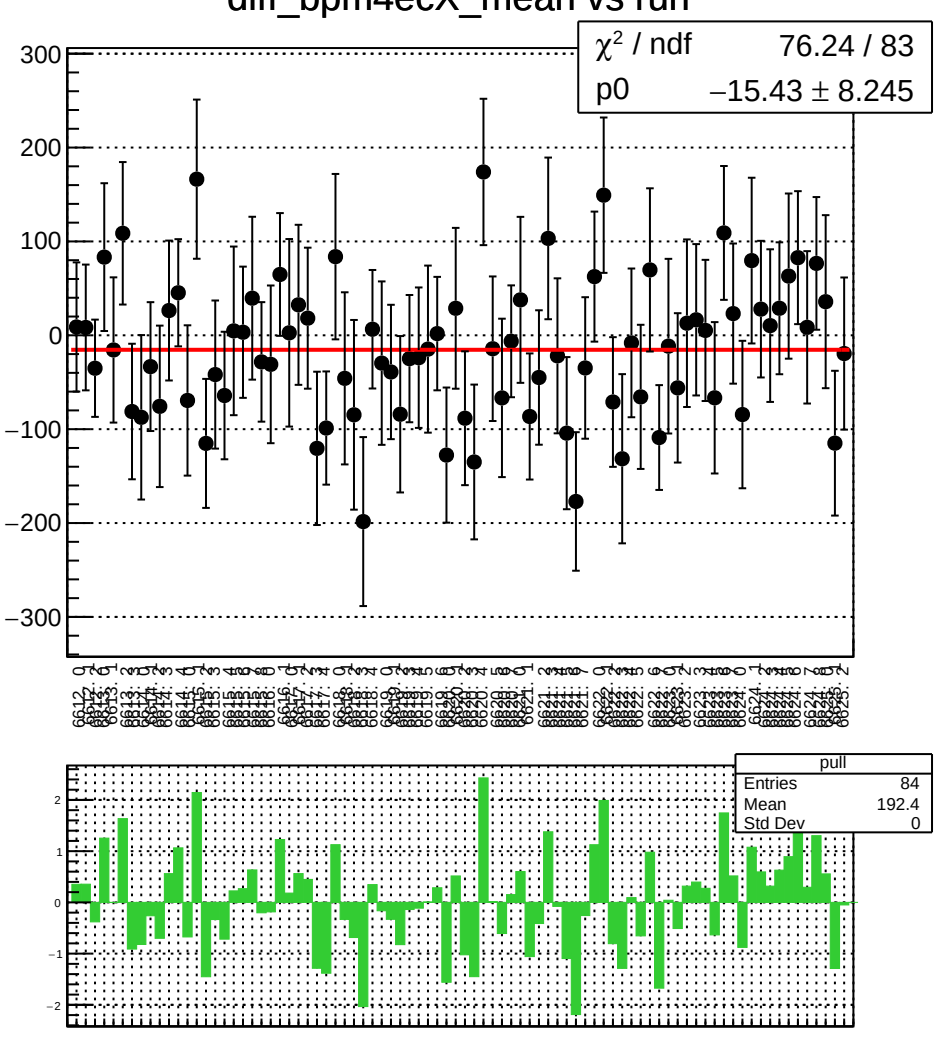

pull1D
Entries 84
Mean 0.01062
Std Dev 0.9502
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

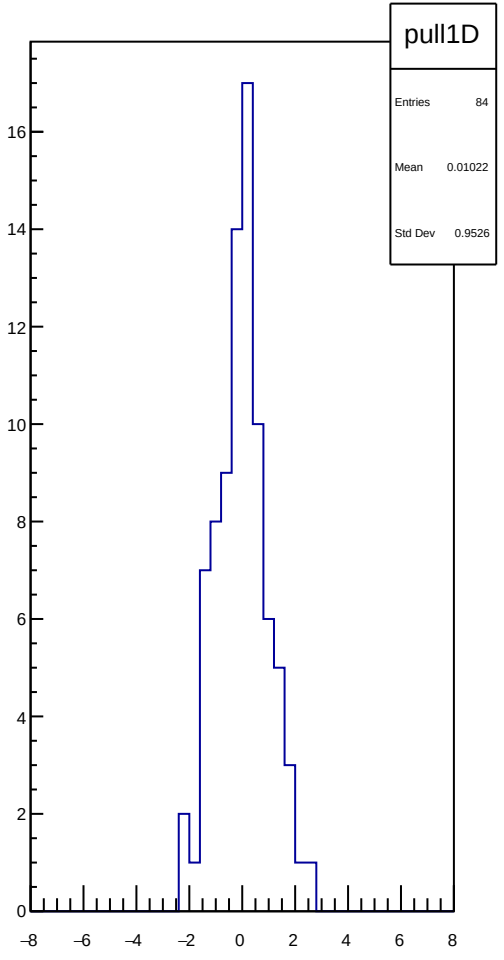

diff_bpm4acX_rms vs run
χ² / ndf 1.474e+04 / 83
p0 7790 ± 6.124
10000
9500
9000
8500
8000
7500
7000
6500

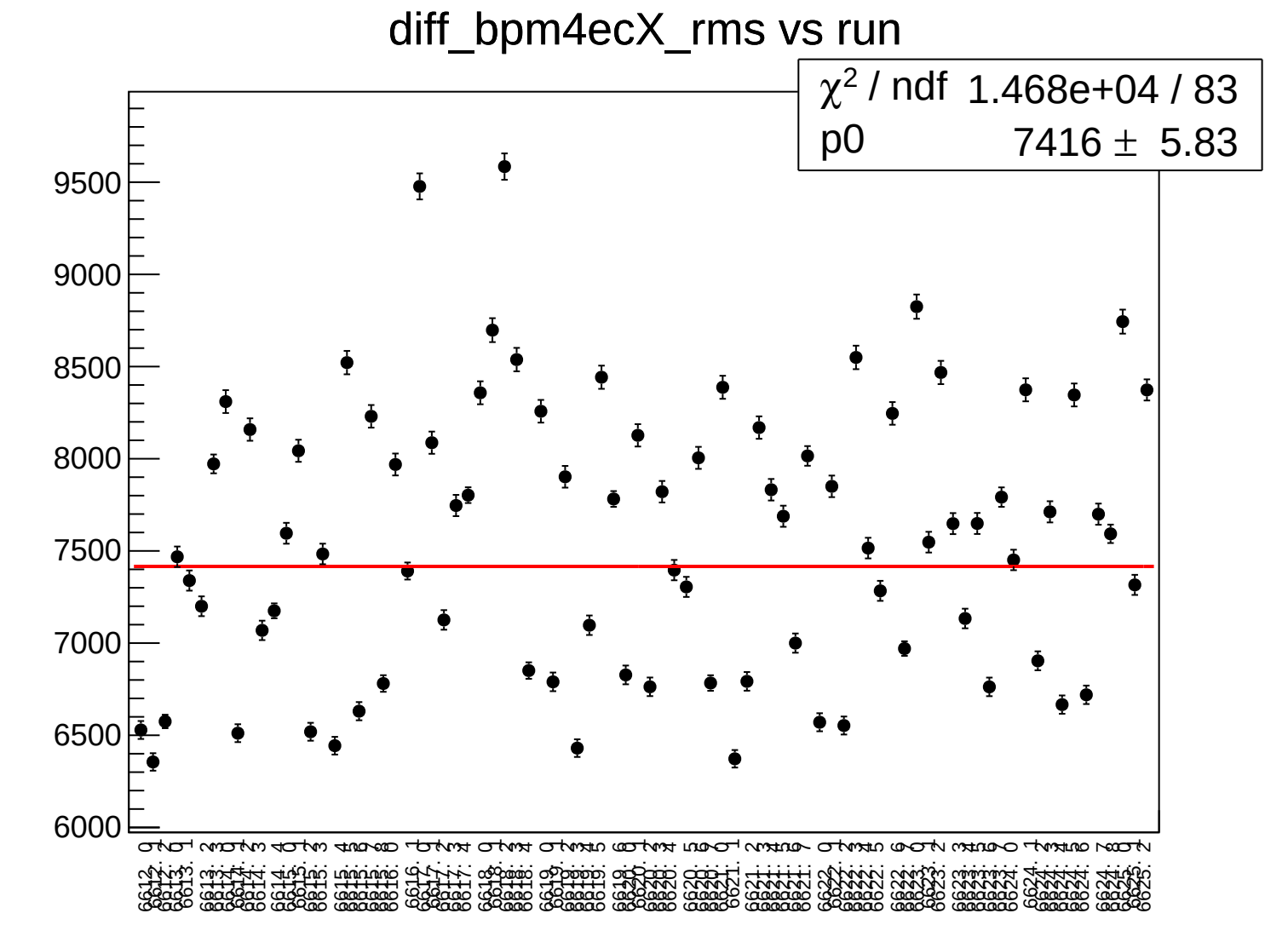

diff_bpm4acY_mean vs run
χ^2 / ndf 74.76 / 83
p0 10.82 ± 7.669
200
100
0
−100
−200
pull
Entries 84
Mean 283.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

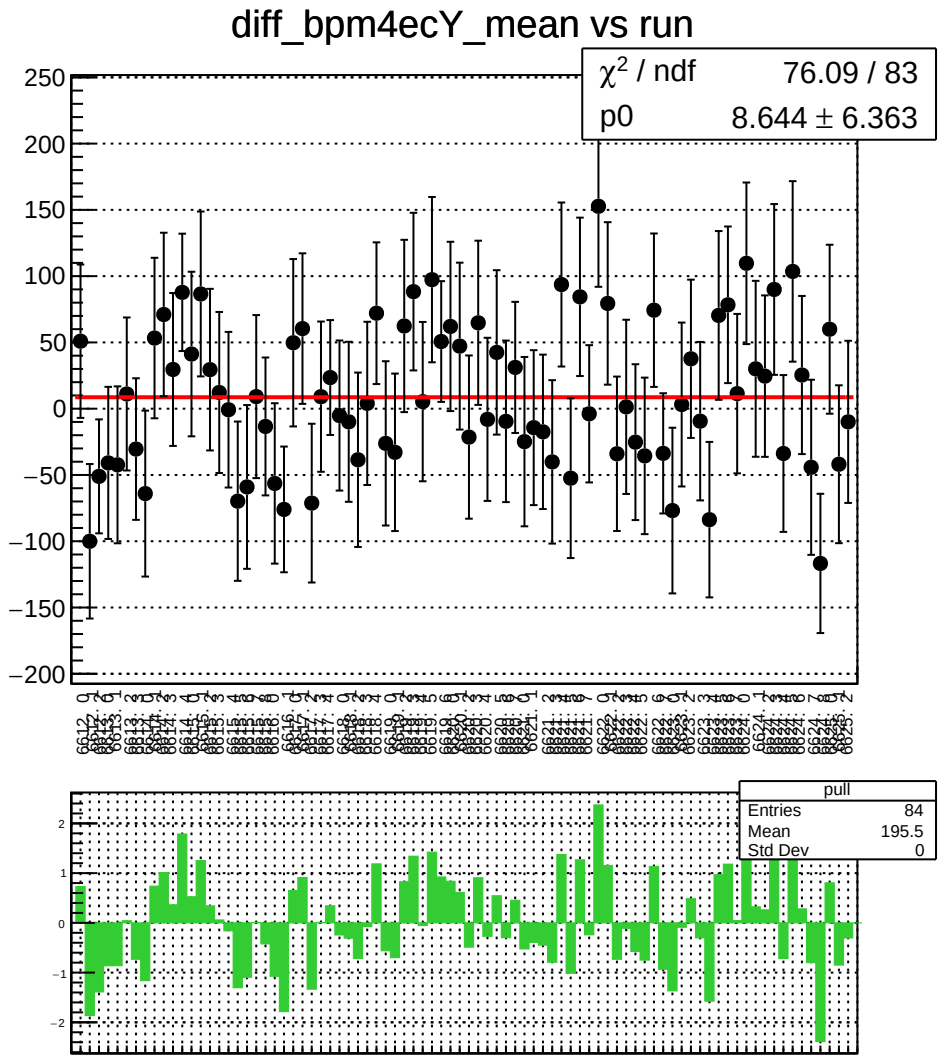

pull1D
Entries 84
Mean 0.01093
Std Dev 0.9433
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

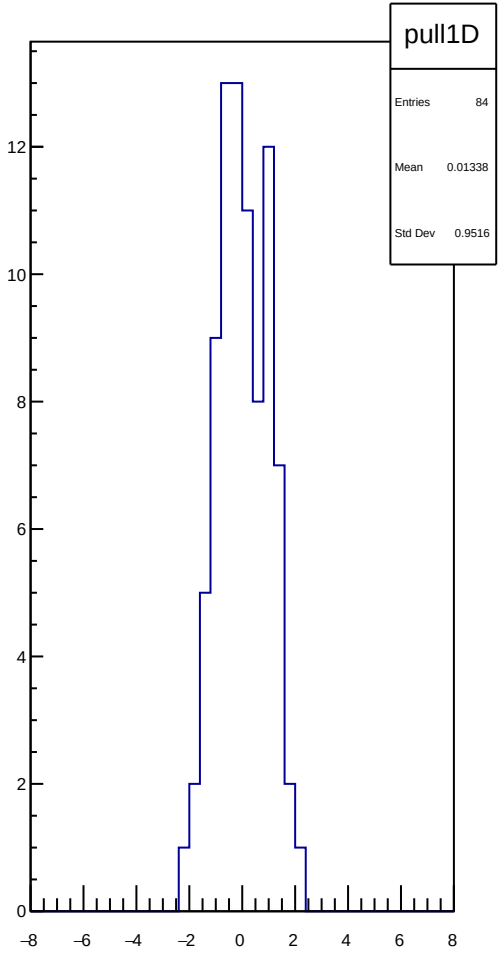

diff_bpm4acY_rms vs run
χ² / ndf 2882 / 83
p0 6923 ± 5.423
7800
7600
7400
7200
7000
6800
6600
6400
6200

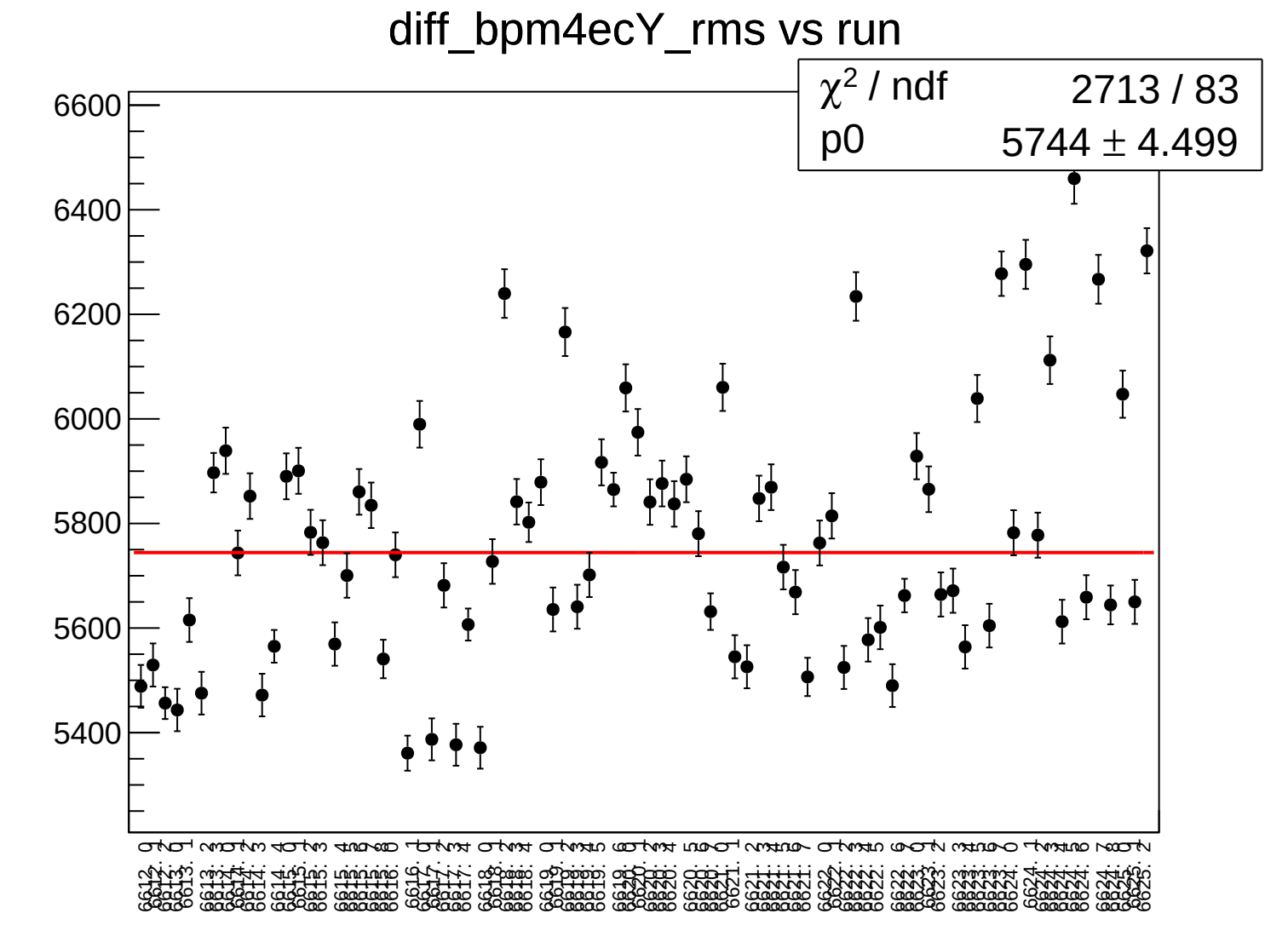

diff_bpm4ecX_mean vs run
χ² / ndf 76.24 / 83
p0 −15.43 ± 8.245
pull
Entries 84
Mean 192.4
Std Dev 0

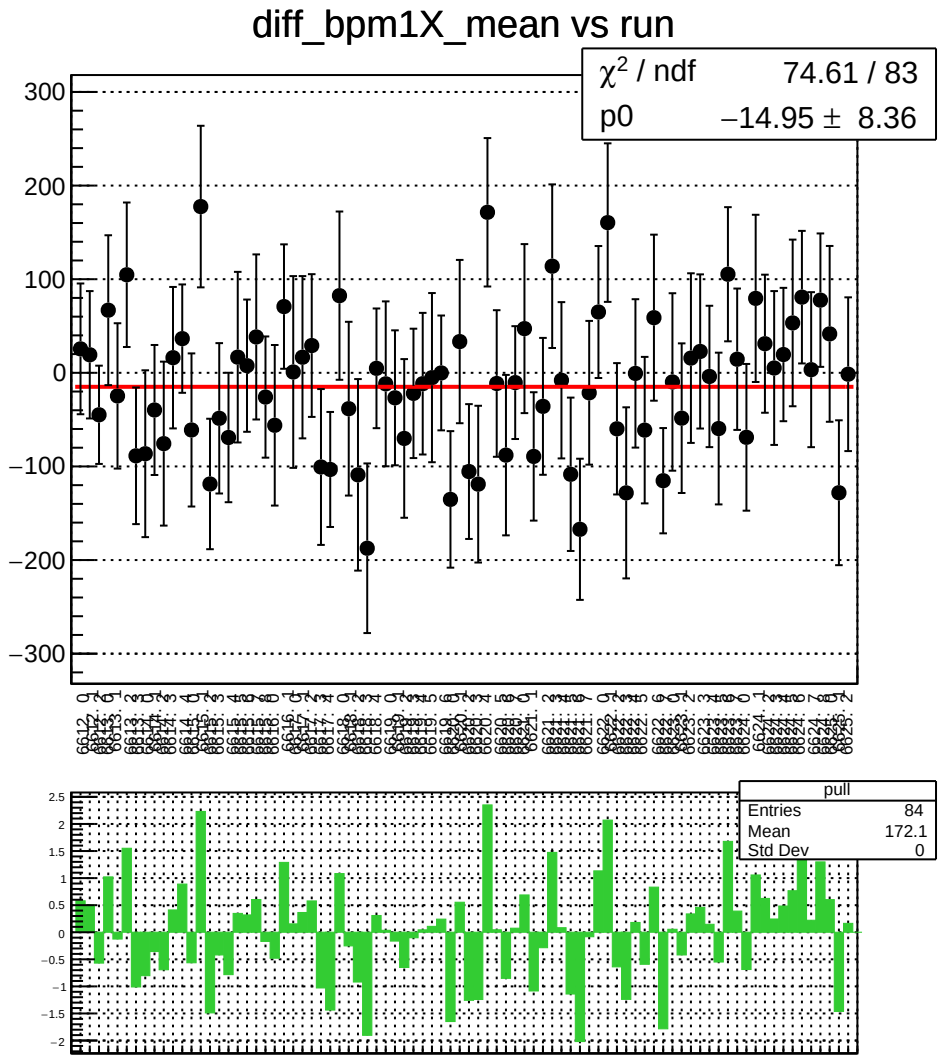

pull1D
Entries 84
Mean 0.01022
Std Dev 0.9526

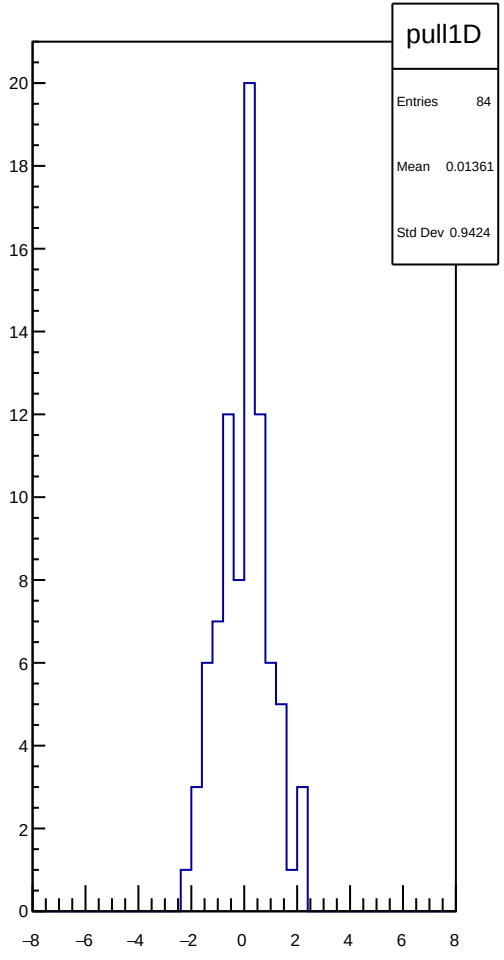

diff_bpm4ecX_rms vs run
χ² / ndf 1.468e+04 / 83
p0 7416 ± 5.83
9500
9000
8500
8000
7500
7000
6500
6000

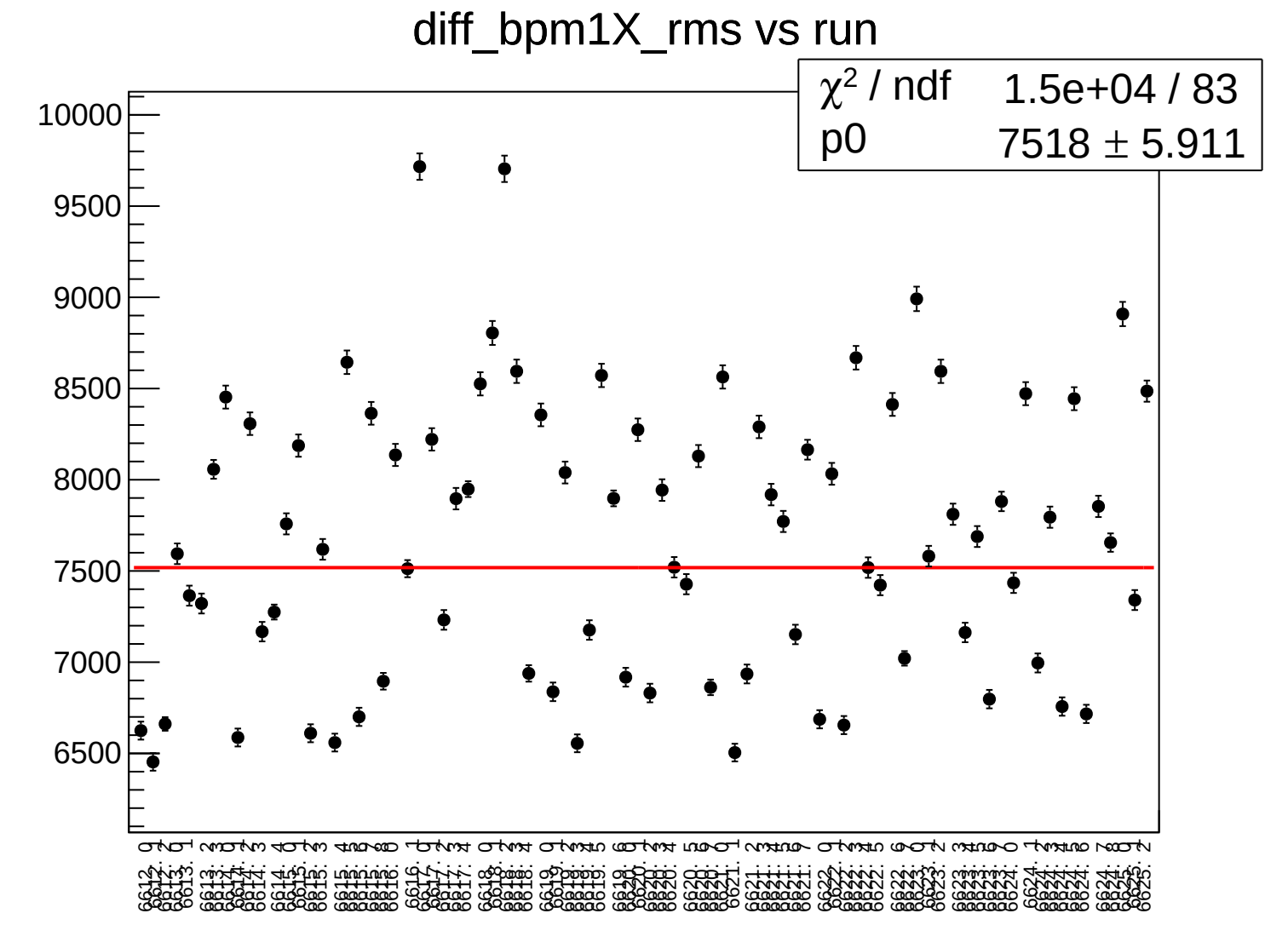

diff_bpm4ecY_mean vs run
χ^2 / ndf 76.09 / 83
p0 8.644 ± 6.363
pull
Entries 84
Mean 195.5
Std Dev 0

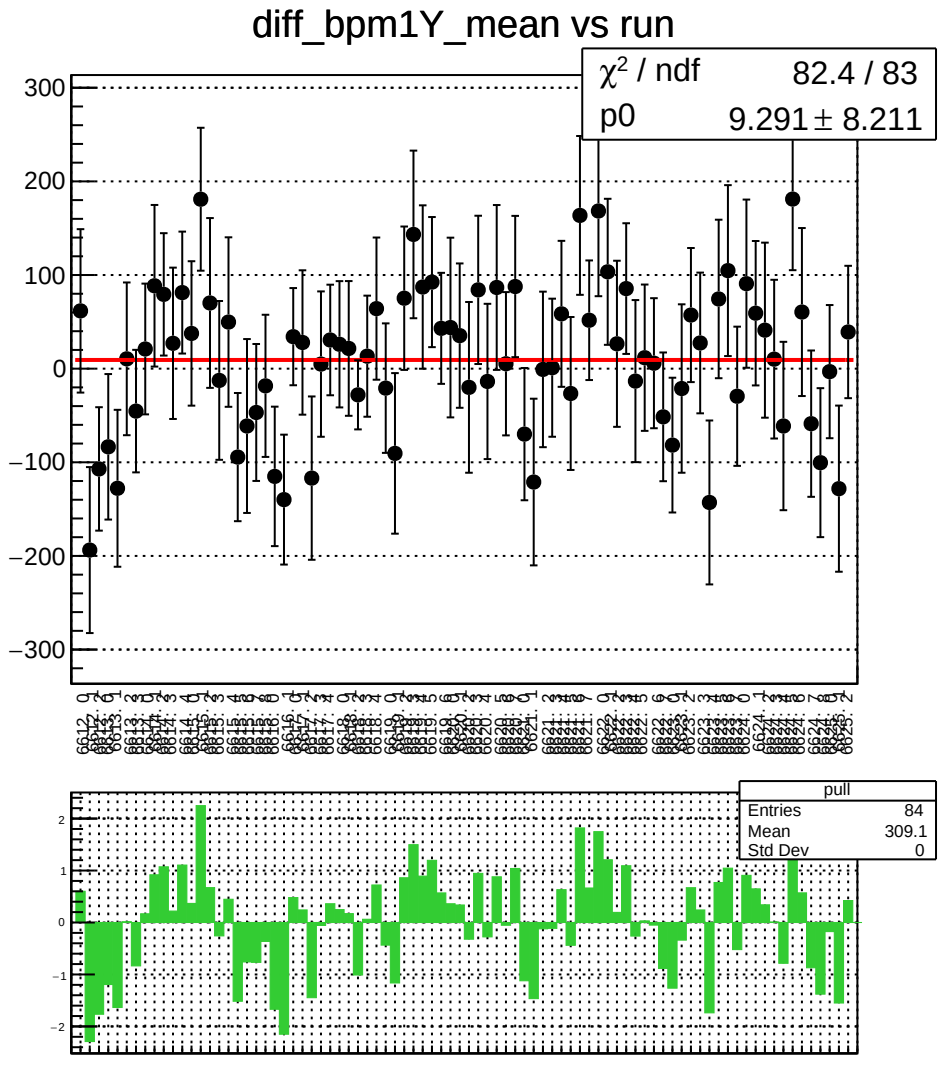

pull1D
Entries 84
Mean 0.01338
Std Dev 0.9516

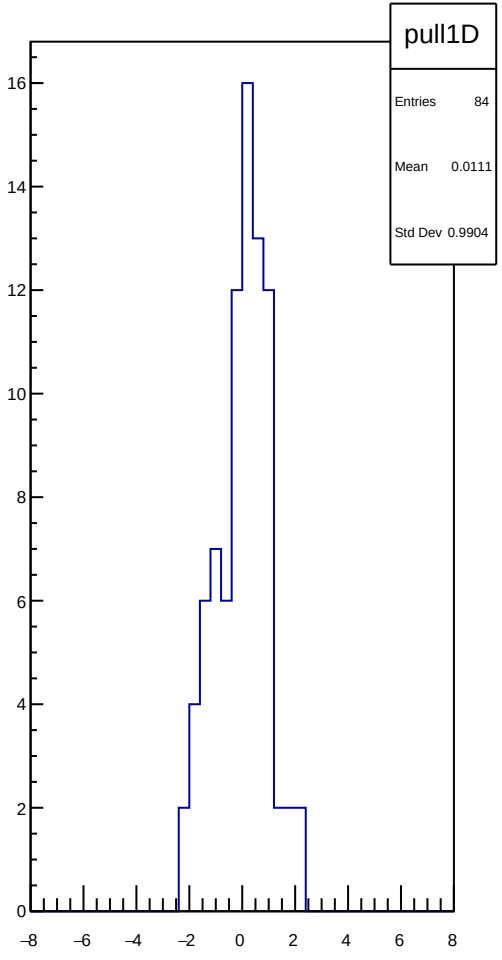

diff_bpm4ecY_rms vs run
χ² / ndf 2713 / 83
p0 5744 ± 4.499
6600
6400
6200
6000
5800
5600
5400

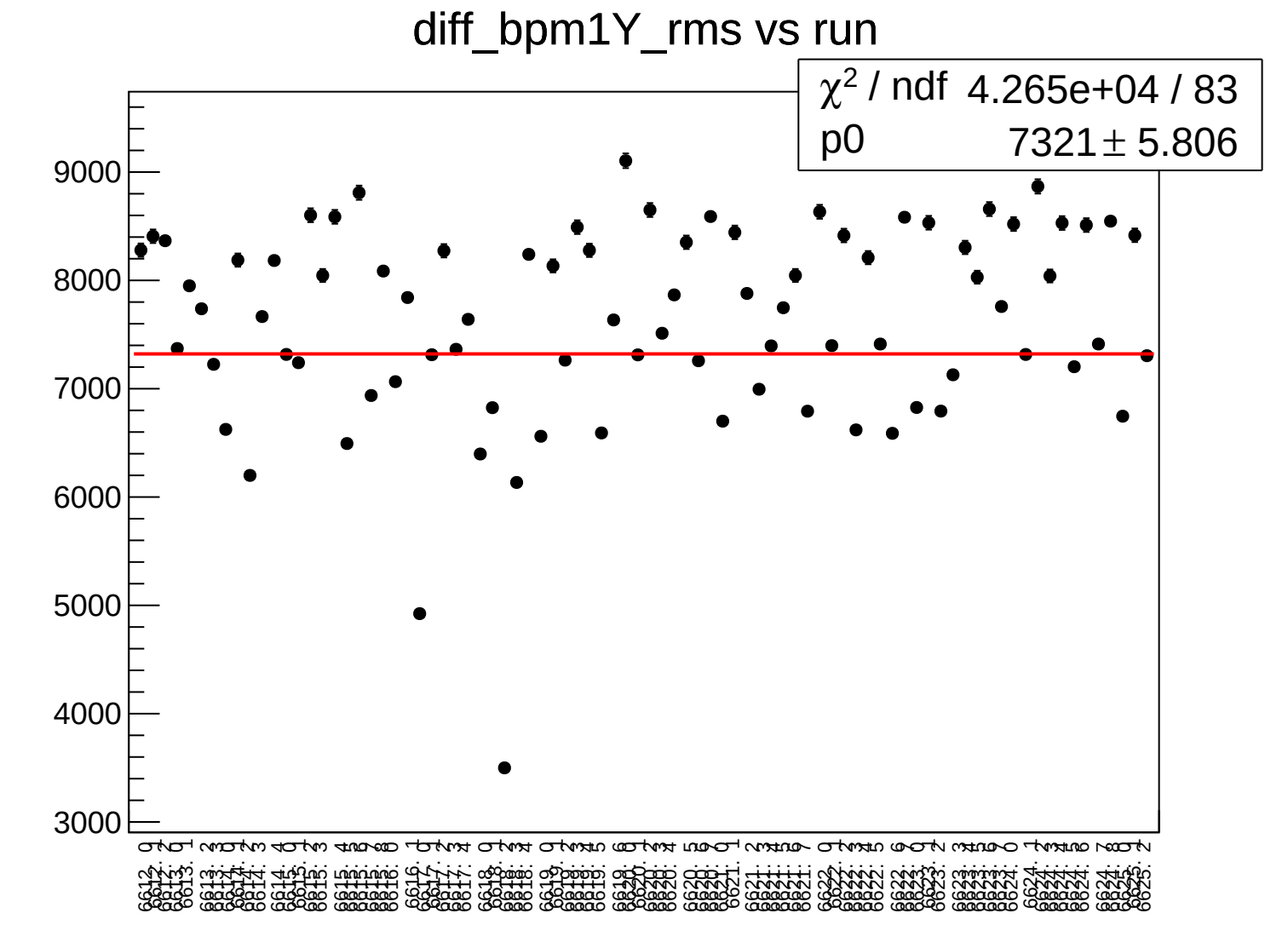

diff_bpm1X_mean vs run
χ² / ndf 74.61 / 83
p0 −14.95 ± 8.36
pull
Entries 84
Mean 172.1
Std Dev 0

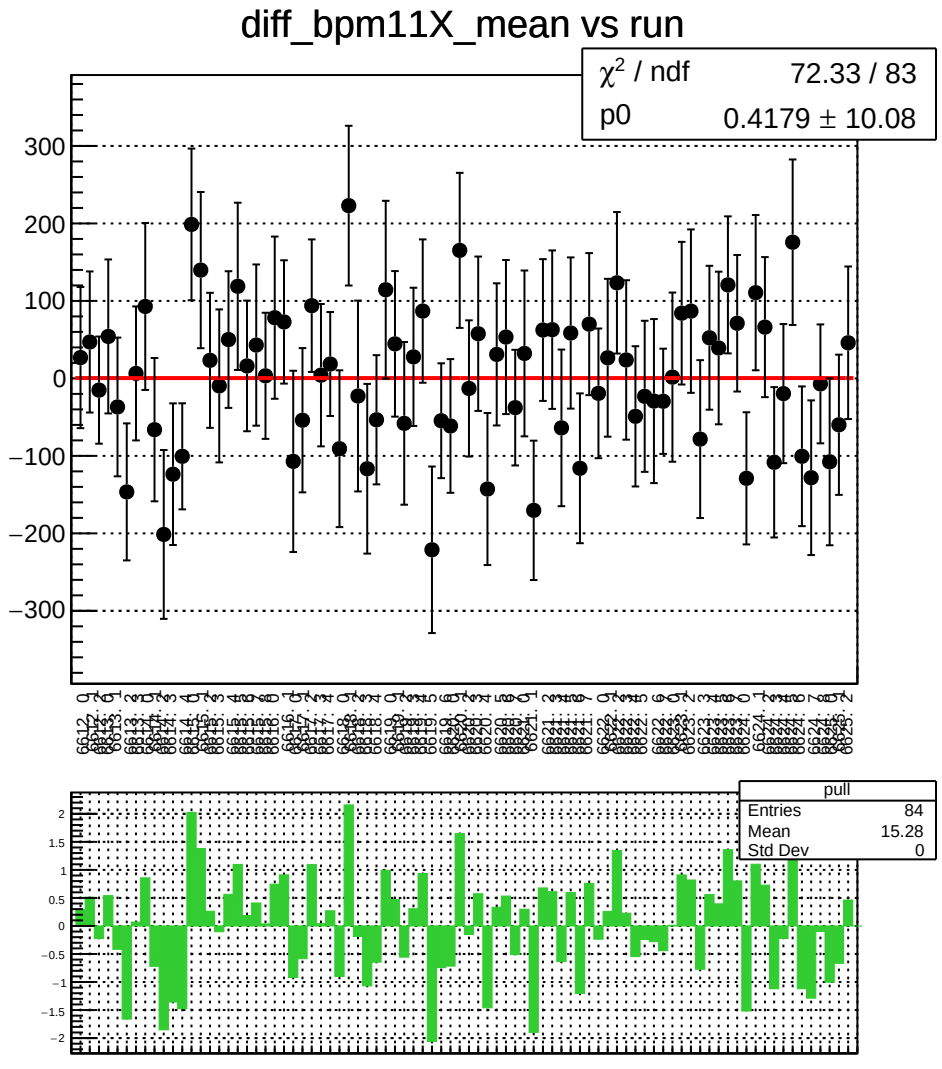

pull1D
Entries 84
Mean 0.01361
Std Dev 0.9424

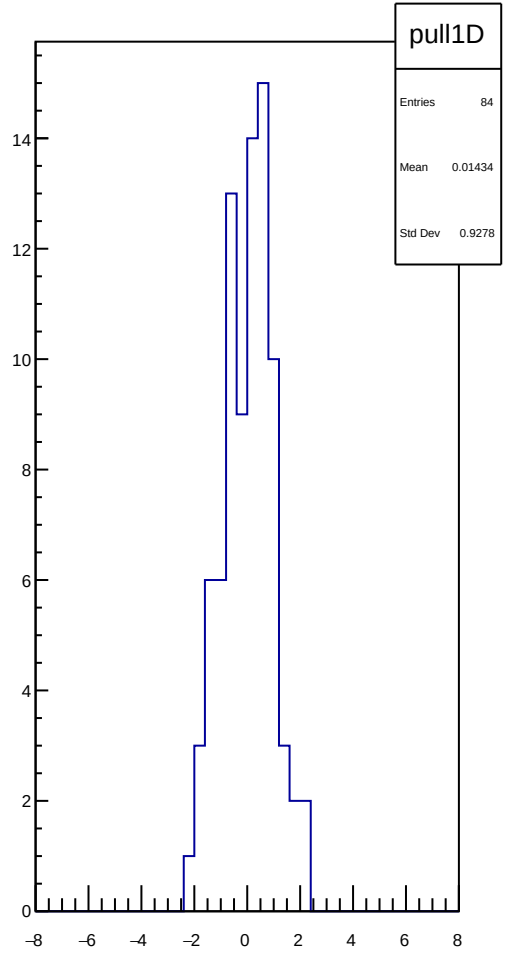

diff_bpm1X_rms vs run
χ² / ndf 1.5e+04 / 83
p0 7518 ± 5.911
10000
9500
9000
8500
8000
7500
7000
6500

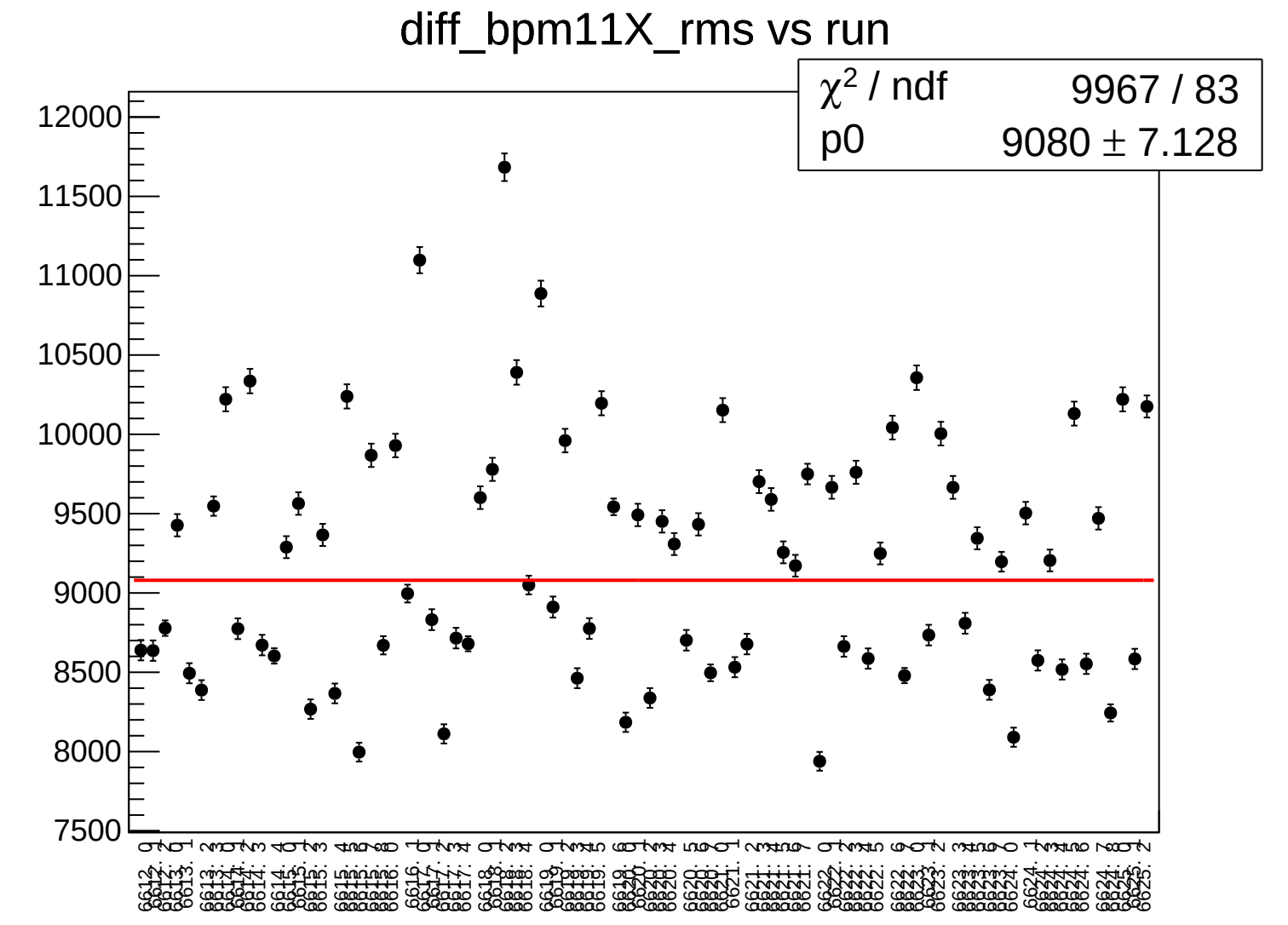

diff_bpm1Y_mean vs run
χ² / ndf 82.4 / 83
p0 9.291 ± 8.211
pull
Entries 84
Mean 309.1
Std Dev 0

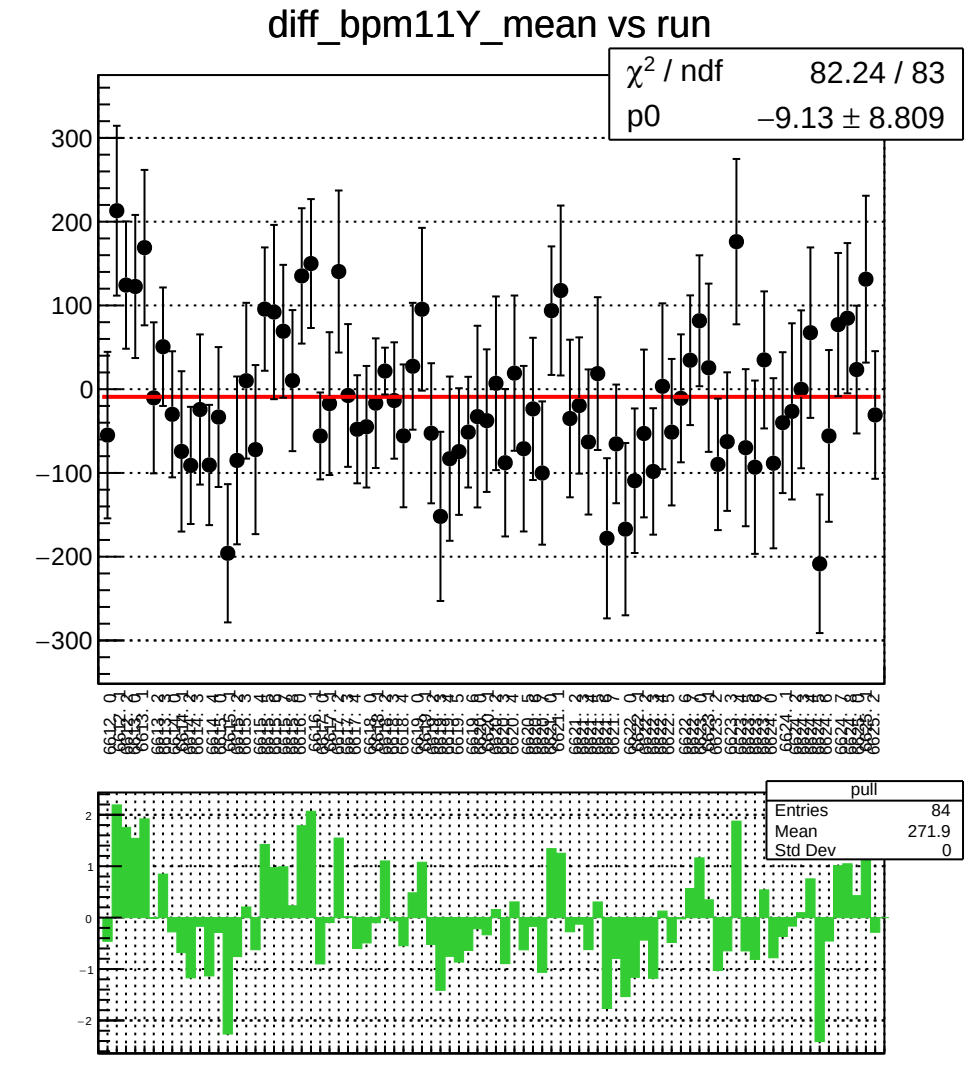

pull1D
Entries 84
Mean 0.0111
Std Dev 0.9904

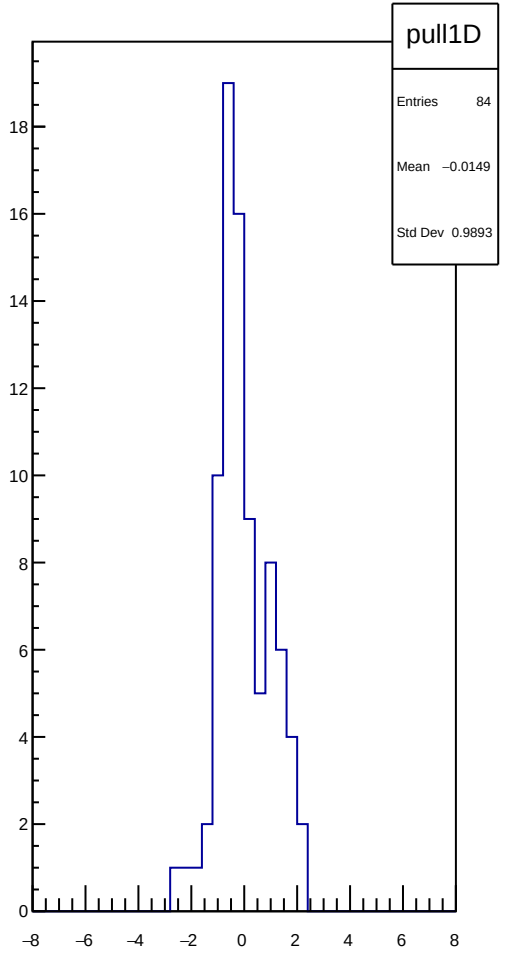

diff_bpm1Y_rms vs run
χ² / ndf 4.265e+04 / 83
p0 7321 ± 5.806
9000
8000
7000
6000
5000
4000
3000

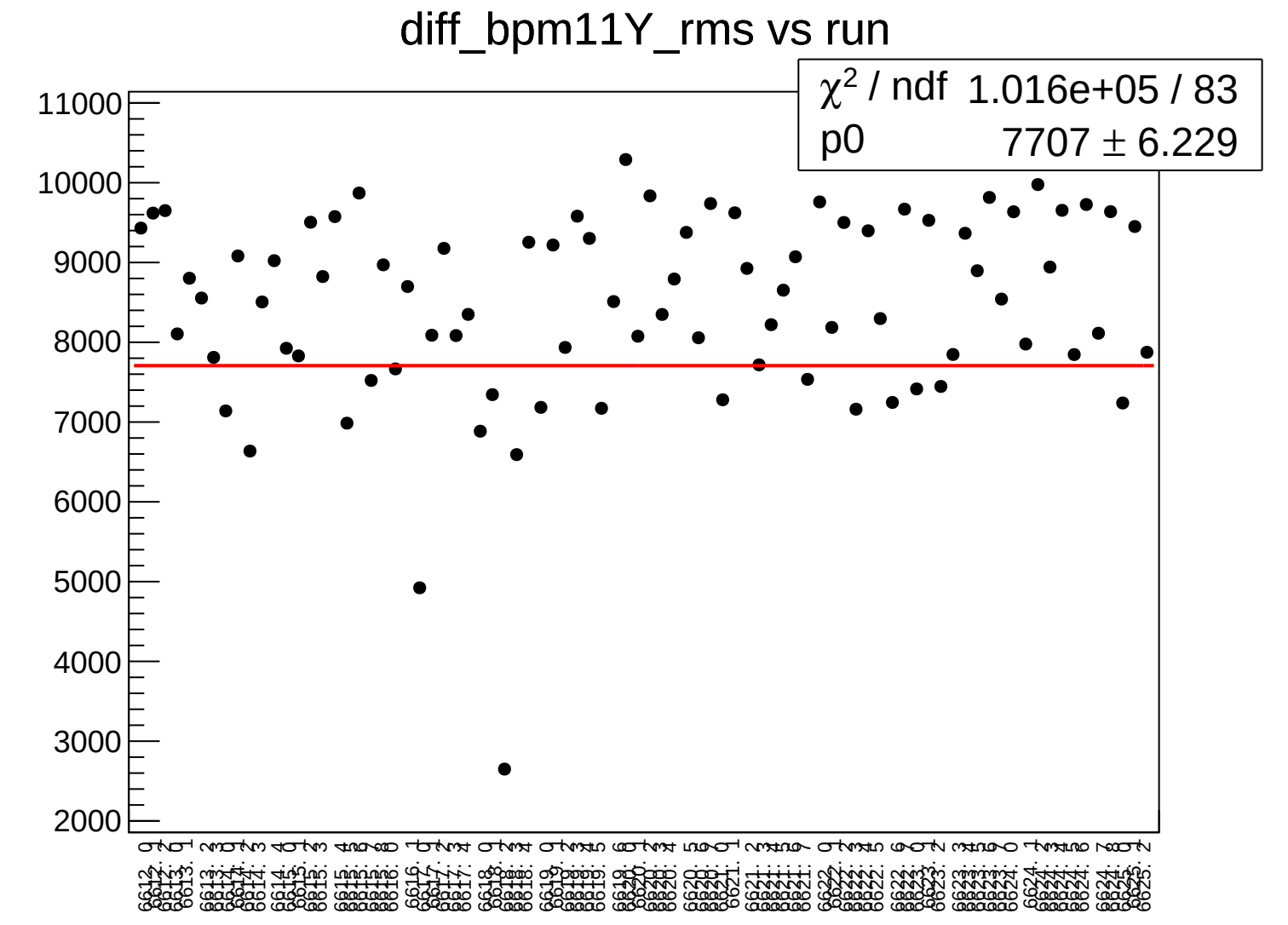

diff_bpm11X_mean vs run
χ² / ndf 72.33 / 83
p0 0.4179 ± 10.08
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean 15.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

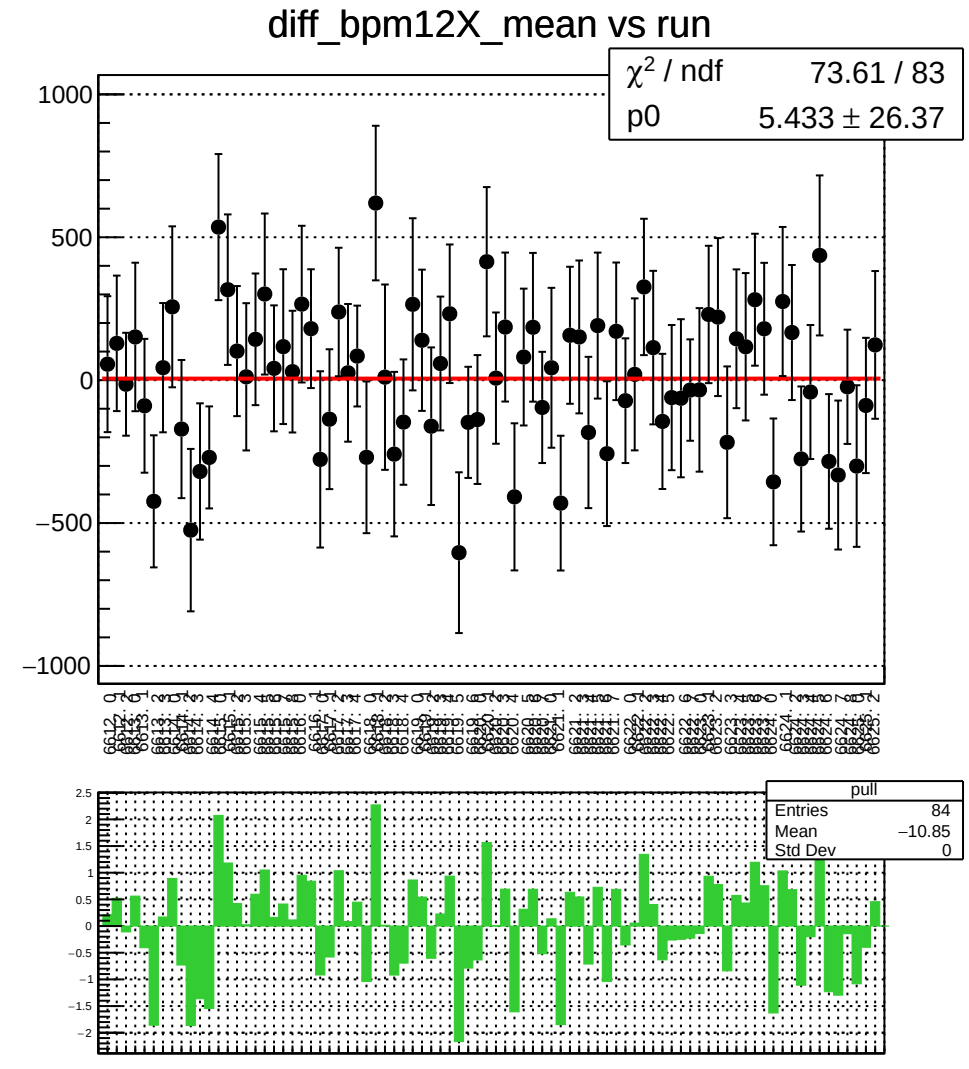

pull1D
Entries 84
Mean 0.01434
Std Dev 0.9278
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

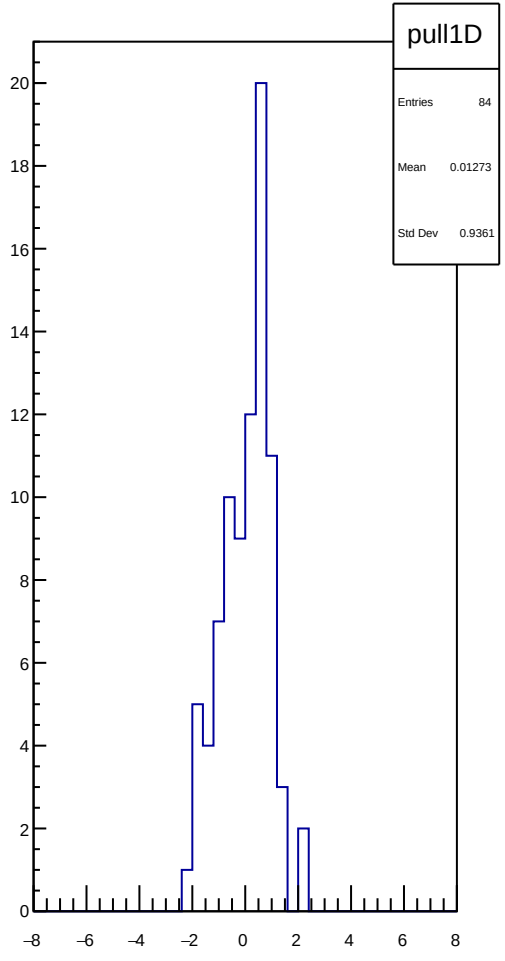

diff_bpm11X_rms vs run
χ^2 / ndf 9967 / 83
p0 9080 ± 7.128
12000
11500
11000
10500
10000
9500
9000
8500
8000
7500

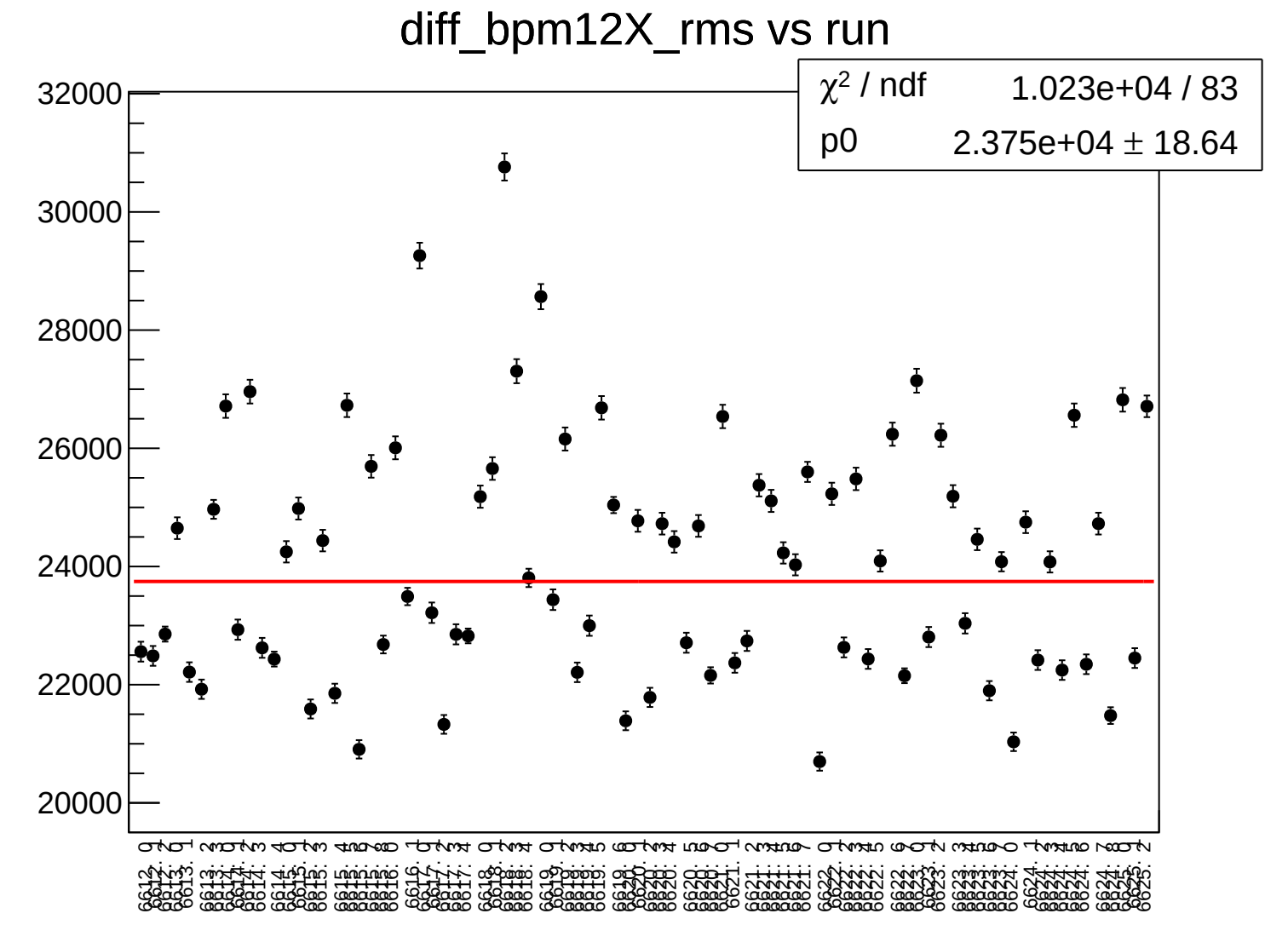

diff_bpm11Y_mean vs run
χ² / ndf 82.24 / 83
p0 −9.13 ± 8.809
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean 271.9
Std Dev 0
2
1
0
−1
−2

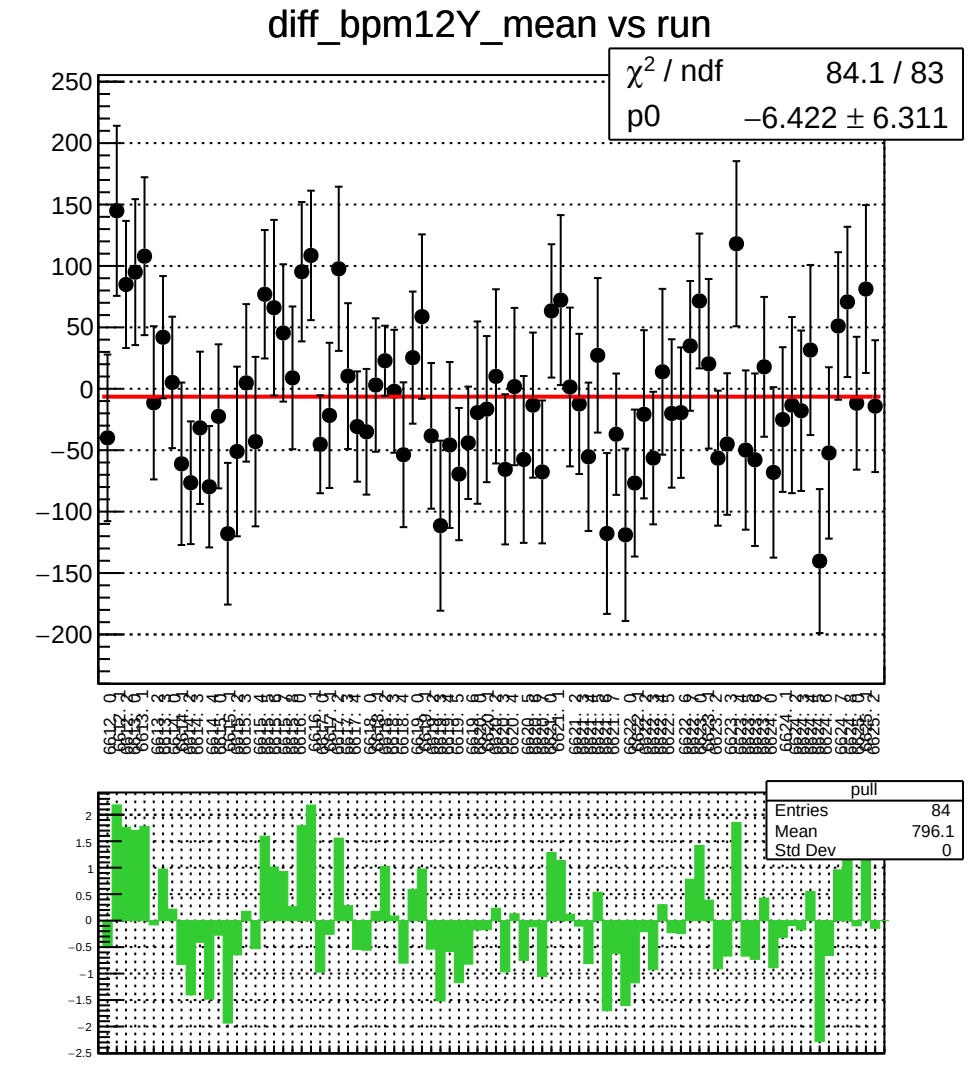

pull1D
Entries 84
Mean −0.0149
Std Dev 0.9893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

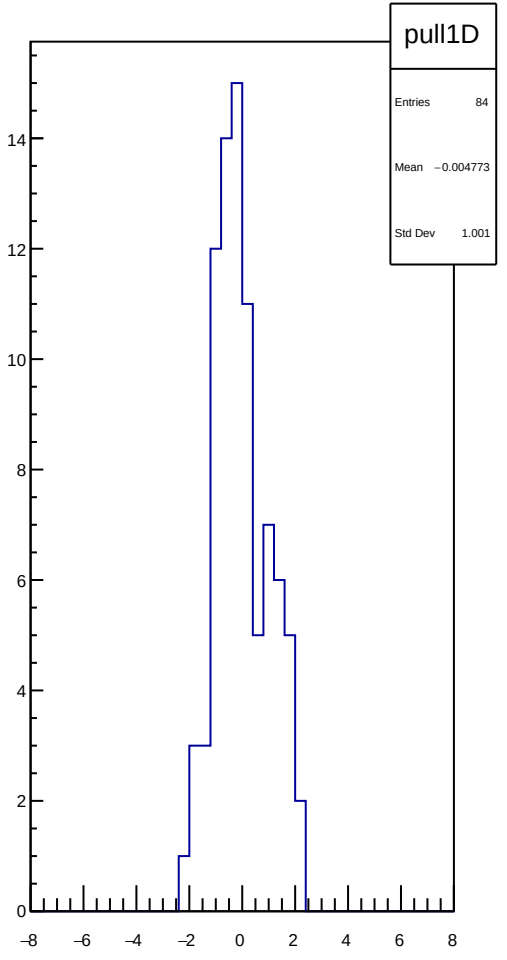

diff_bpm11Y_rms vs run
χ² / ndf 1.016e+05 / 83
p0 7707 ± 6.229
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

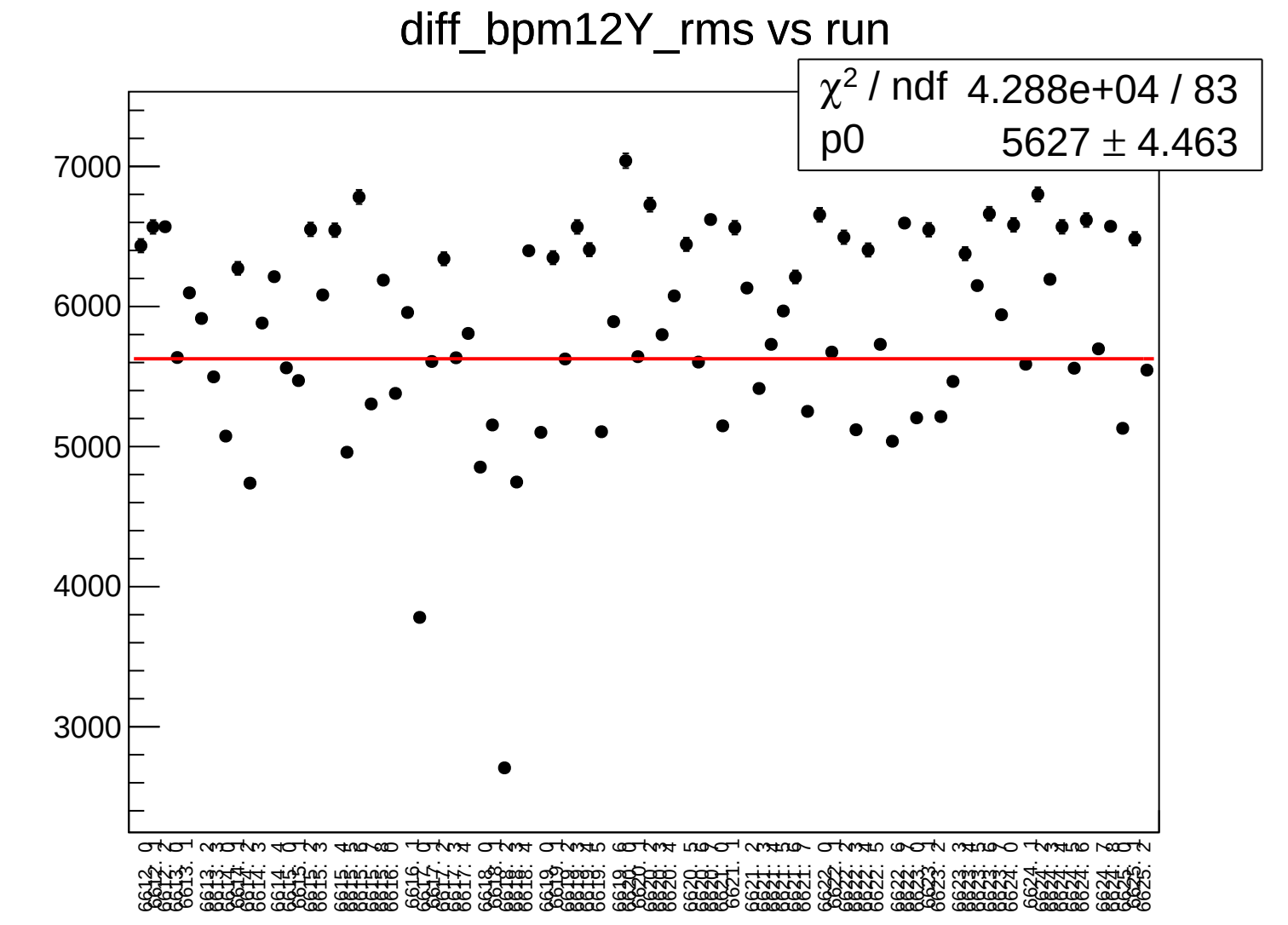

diff_bpm12X_mean vs run
χ² / ndf 73.61 / 83
p0 5.433 ± 26.37
1000
500
0
−500
−1000
pull
Entries 84
Mean −10.85
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

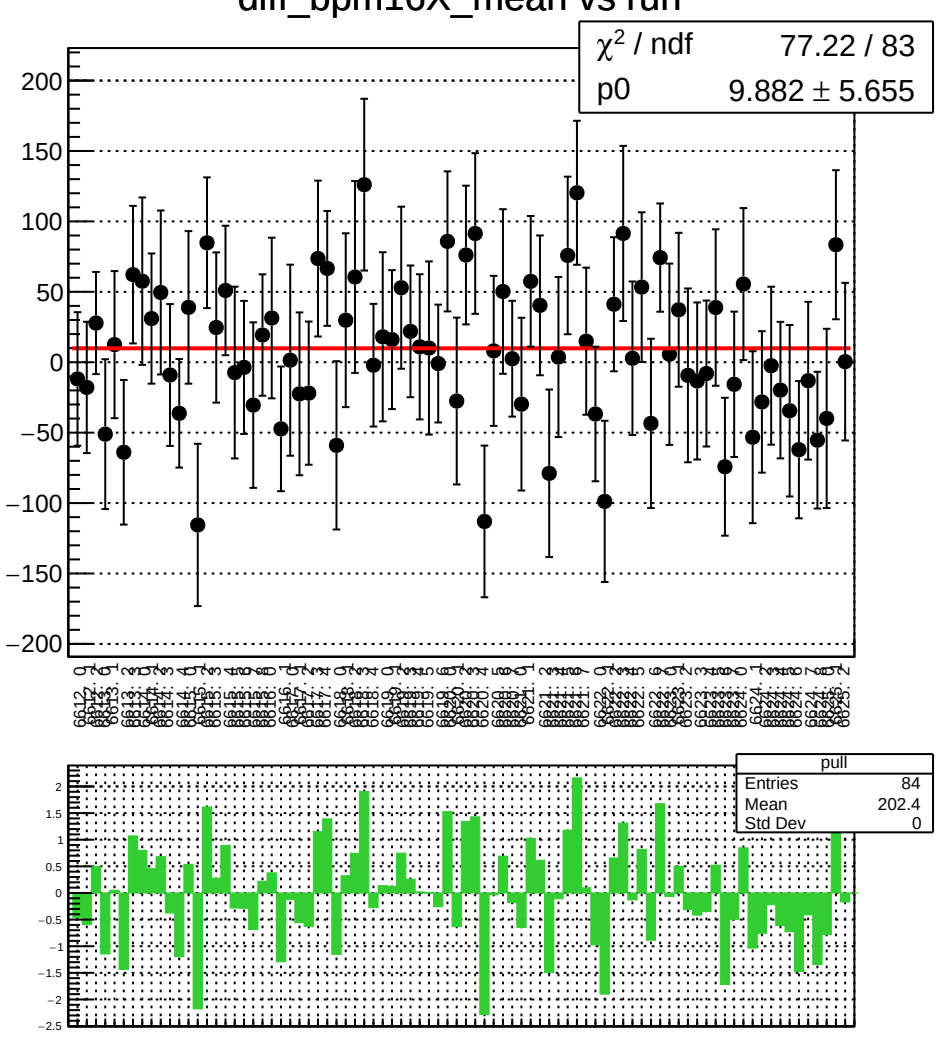

pull1D
Entries 84
Mean 0.01273
Std Dev 0.9361
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

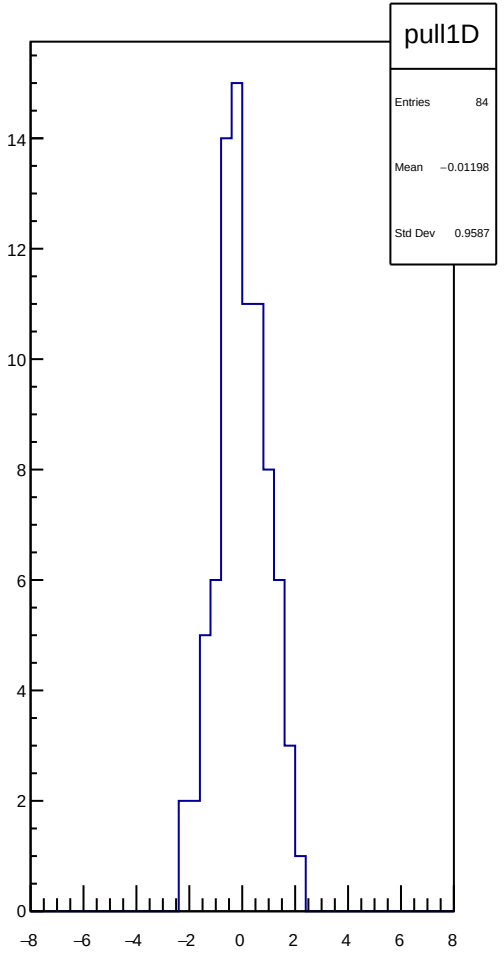

diff_bpm12X_rms vs run
χ² / ndf 1.023e+04 / 83
p0 2.375e+04 ± 18.64
32000
30000
28000
26000
24000
22000
20000

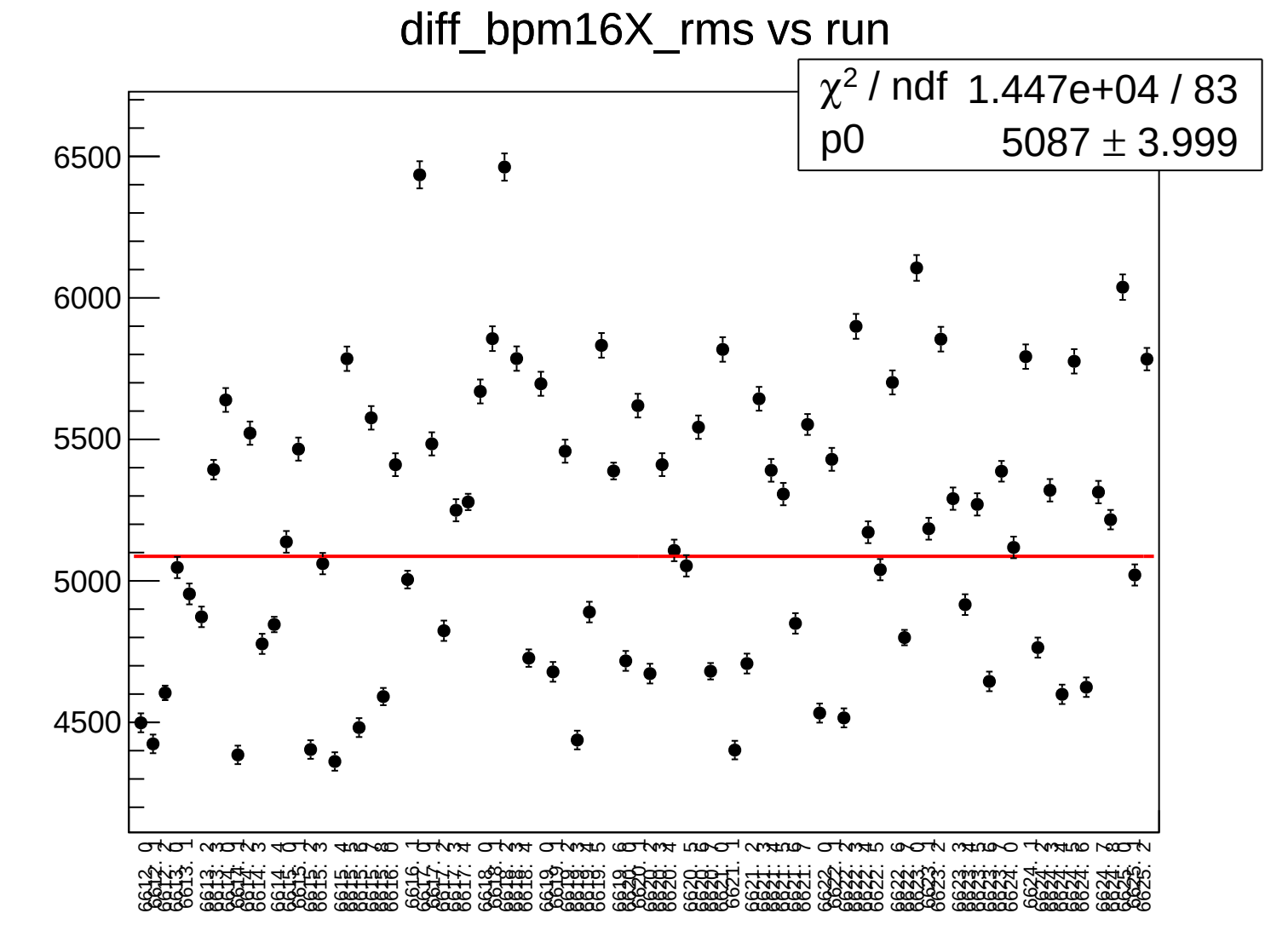

diff_bpm12Y_mean vs run
χ² / ndf 84.1 / 83
p0 −6.422 ± 6.311
pull
Entries 84
Mean 796.1
Std Dev 0

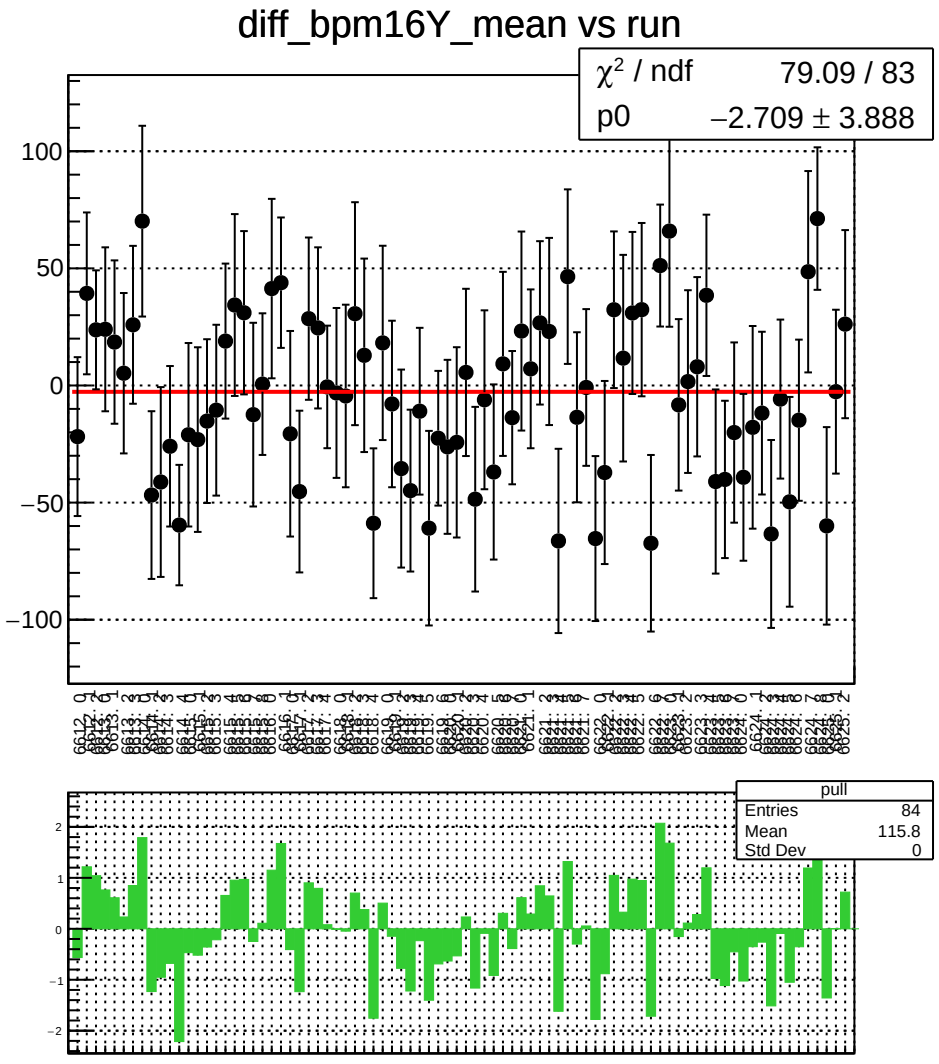

pull1D
Entries 84
Mean −0.004773
Std Dev 1.001

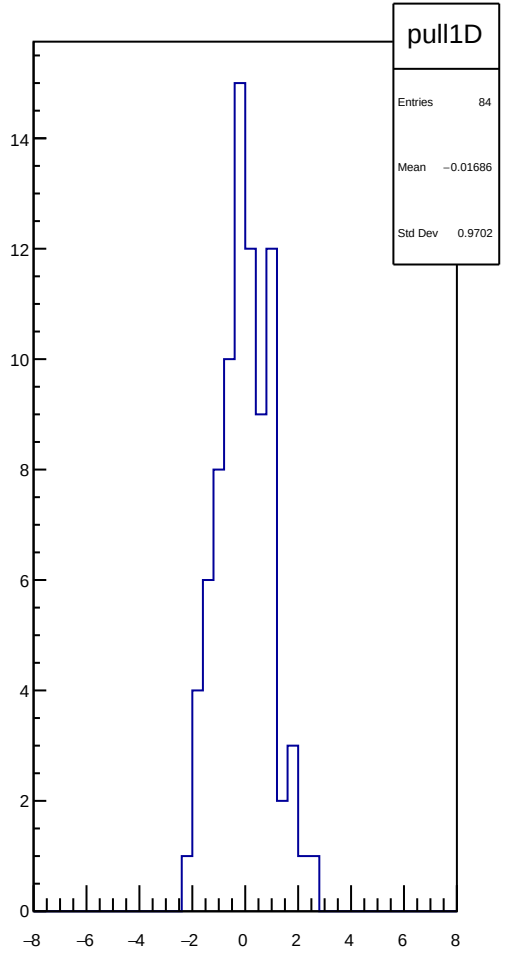

diff_bpm12Y_rms vs run
χ² / ndf 4.288e+04 / 83
p0 5627 ± 4.463
7000
6000
5000
4000
3000

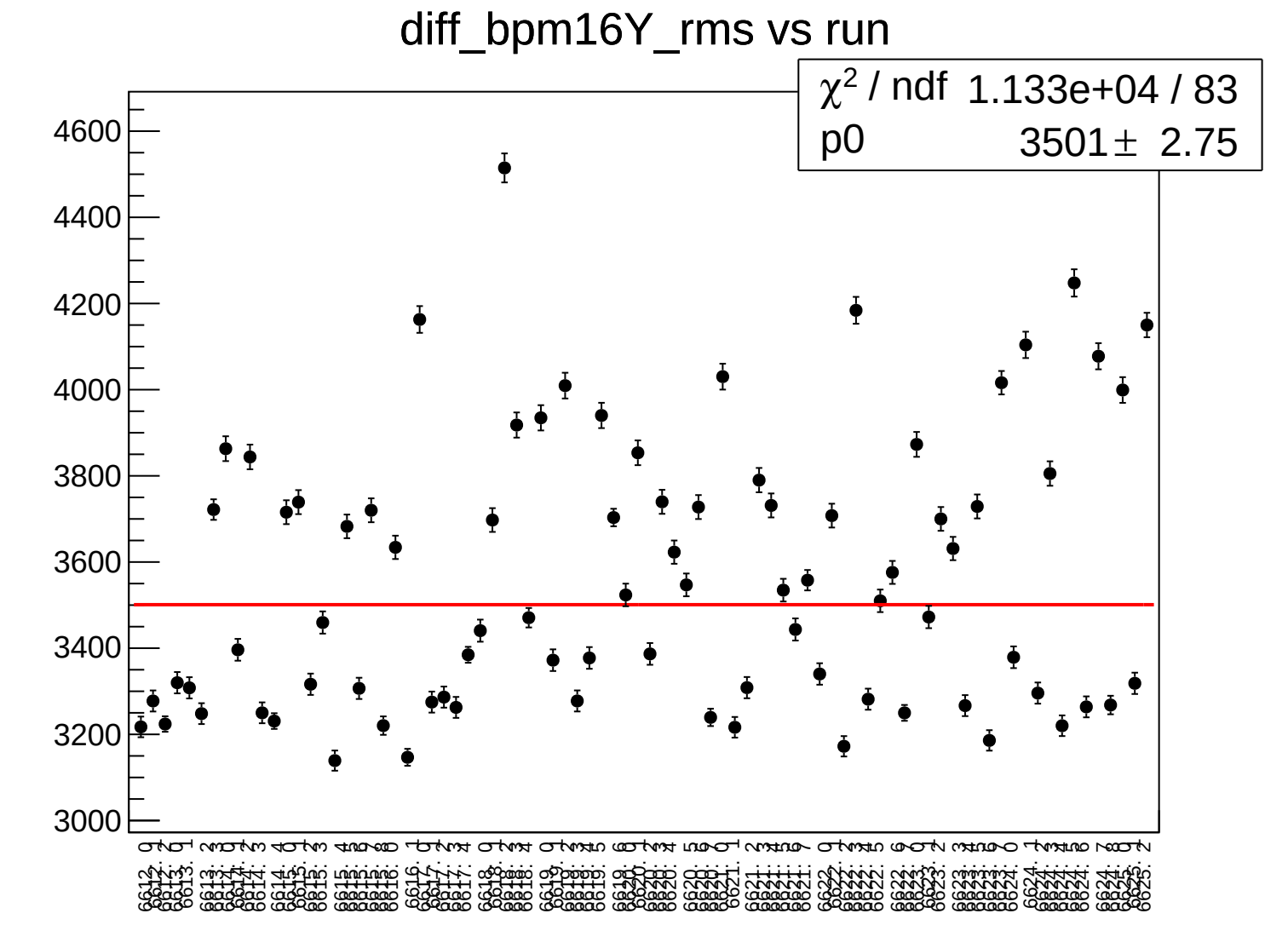

diff_bpm16X_mean vs run
χ^2 / ndf 77.22 / 83
p0 9.882 ± 5.655
pull
Entries 84
Mean 202.4
Std Dev 0

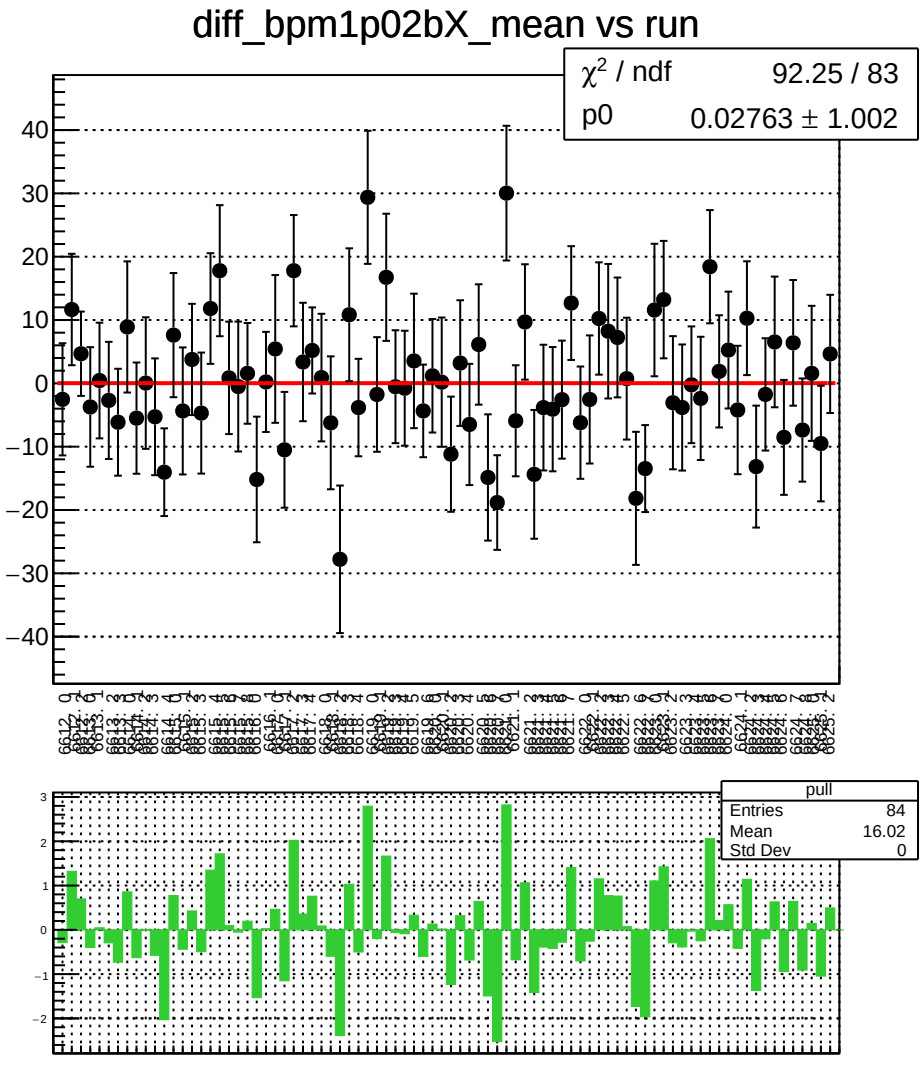

pull1D
Entries 84
Mean −0.01198
Std Dev 0.9587

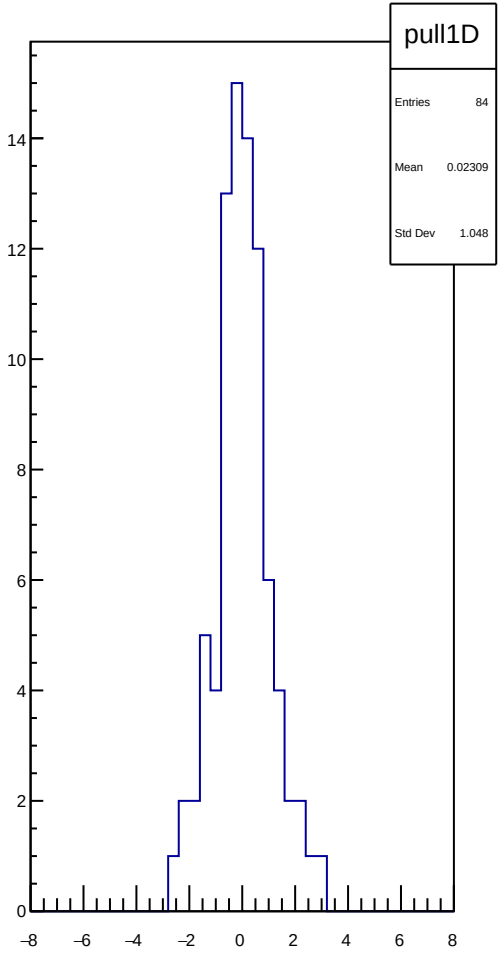

diff_bpm16X_rms vs run
χ² / ndf 1.447e+04 / 83
p0 5087 ± 3.999
6500
6000
5500
5000
4500

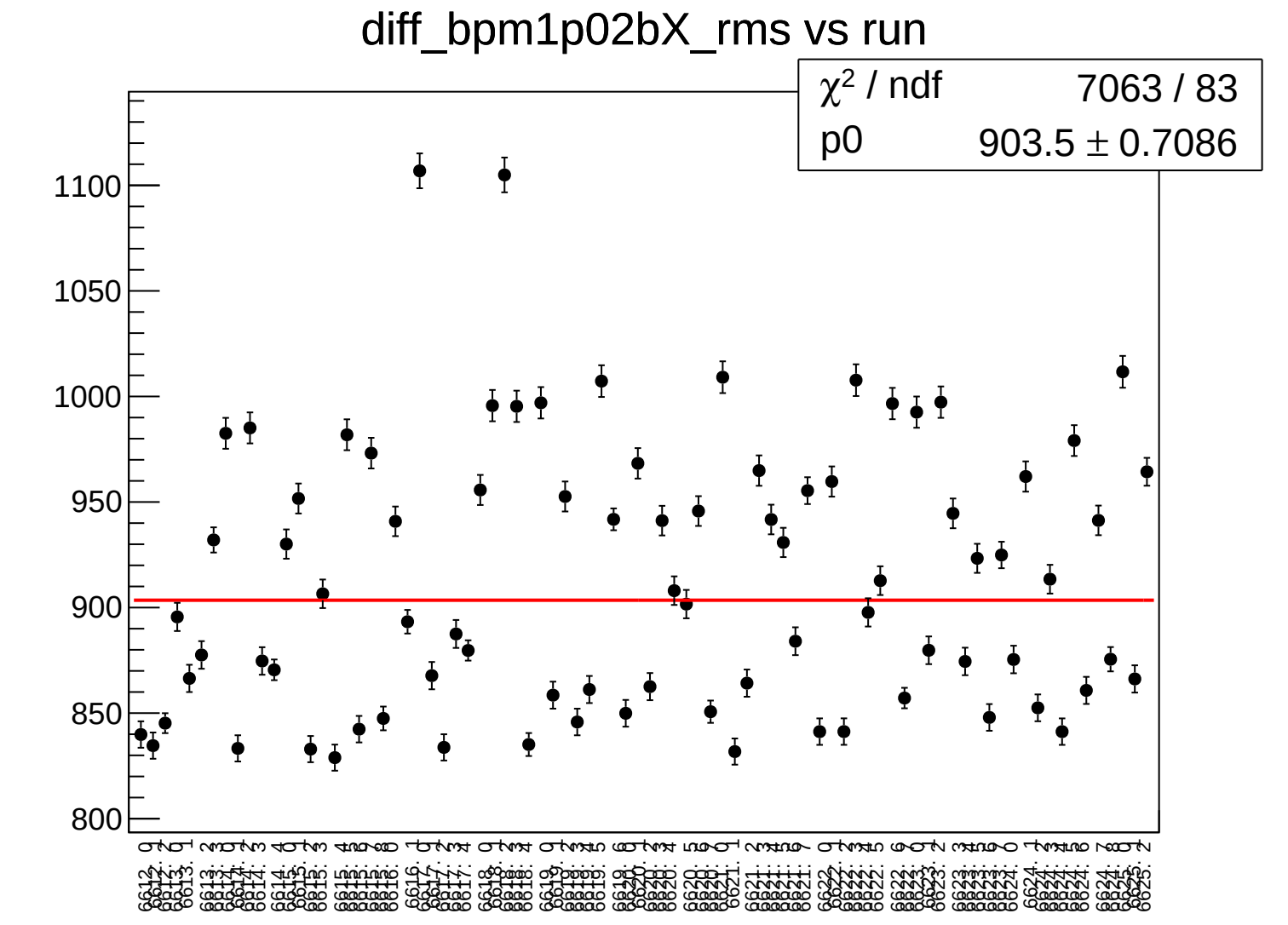

diff_bpm16Y_mean vs run
χ² / ndf 79.09 / 83
p0 −2.709 ± 3.888
100
50
0
−50
−100
pull
Entries 84
Mean 115.8
Std Dev 0
2
1
0
−1
−2

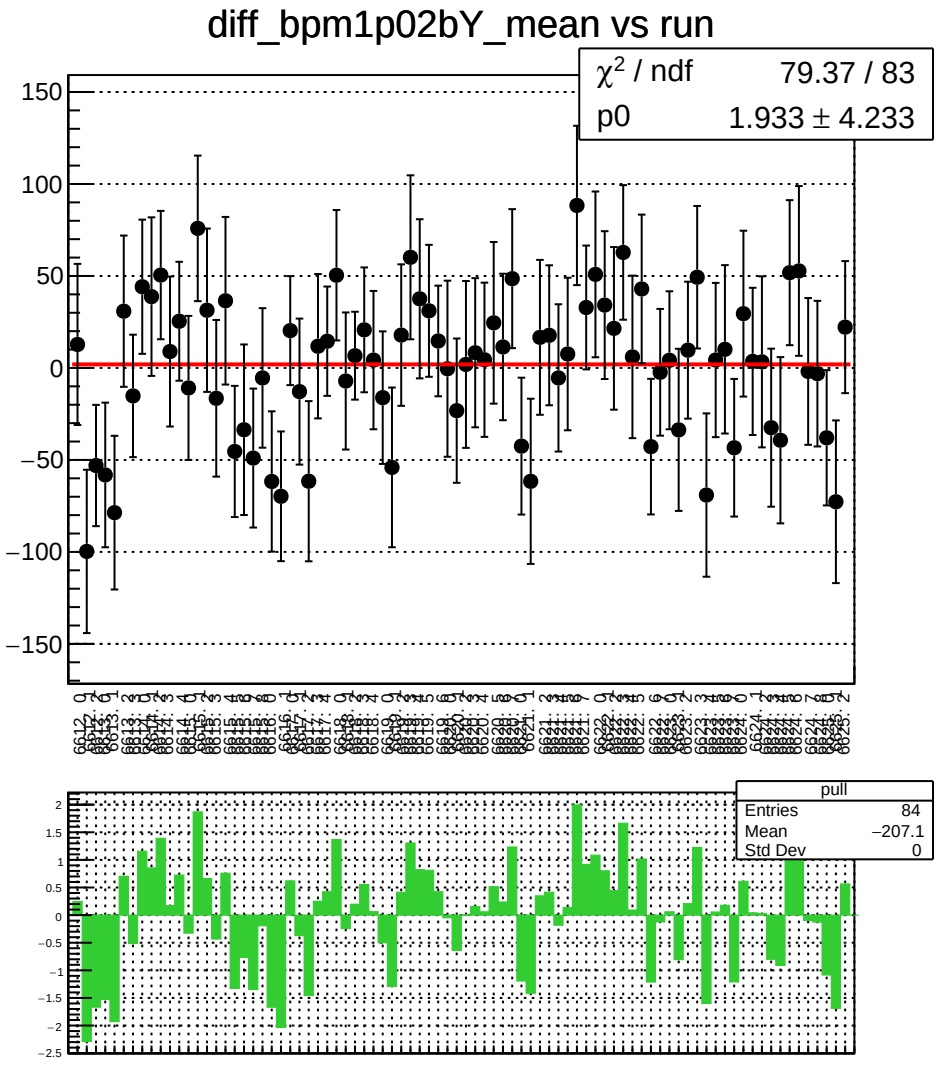

pull1D
Entries 84
Mean −0.01686
Std Dev 0.9702
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

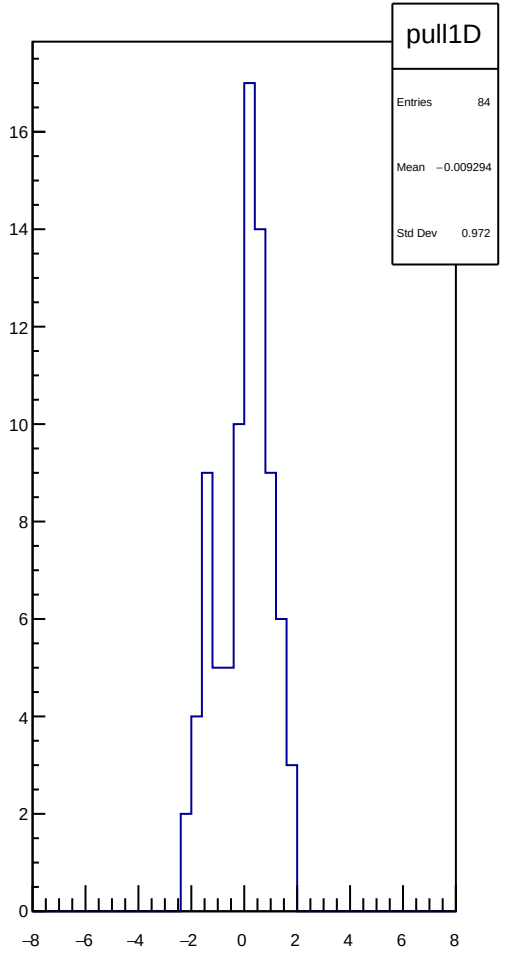

diff_bpm16Y_rms vs run
χ² / ndf 1.133e+04 / 83
p0 3501 ± 2.75
4600
4400
4200
4000
3800
3600
3400
3200
3000

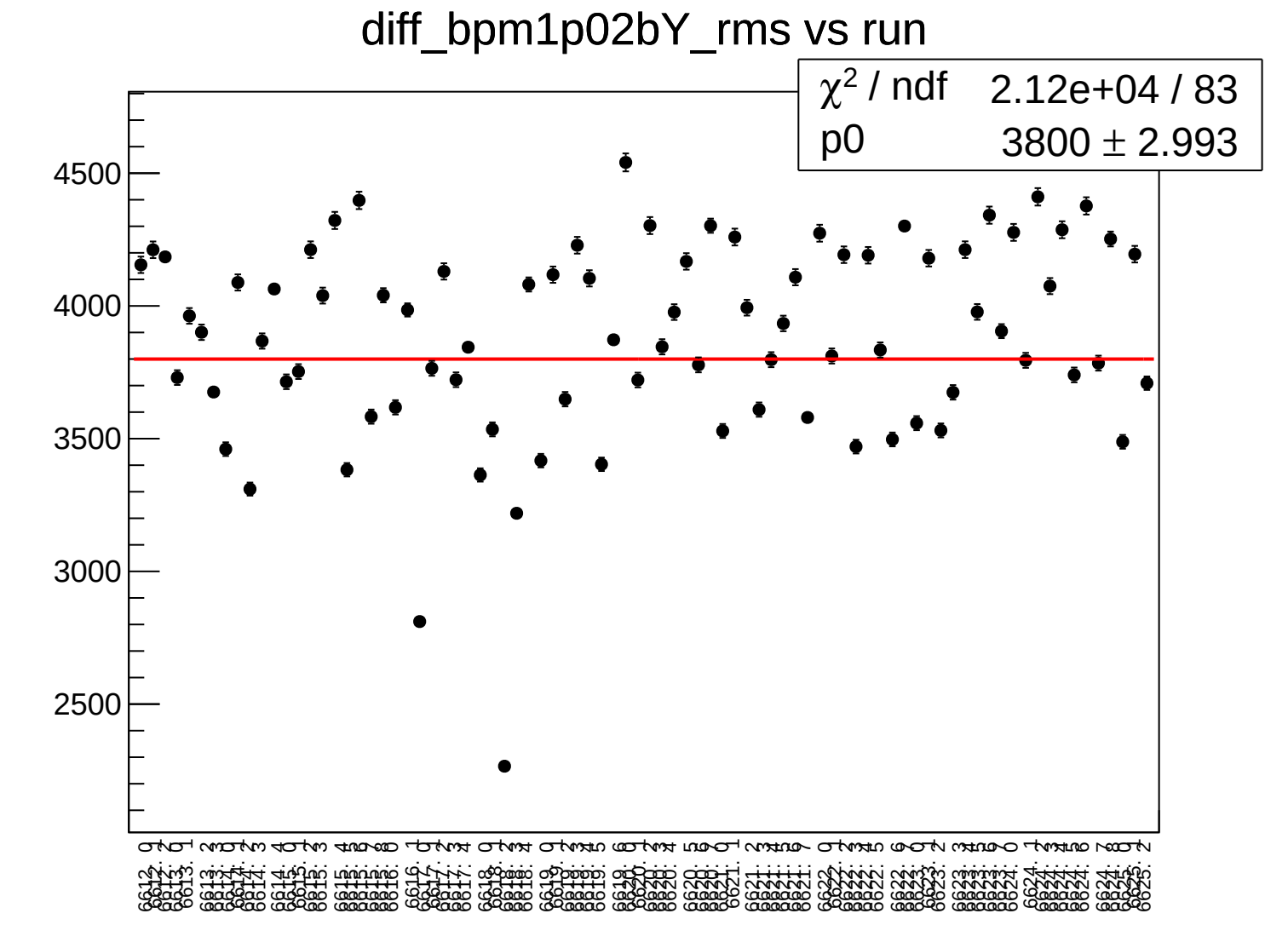

diff_bpm1p02bX_mean vs run
χ² / ndf 92.25 / 83
p0 0.02763 ± 1.002
pull
Entries 84
Mean 16.02
Std Dev 0

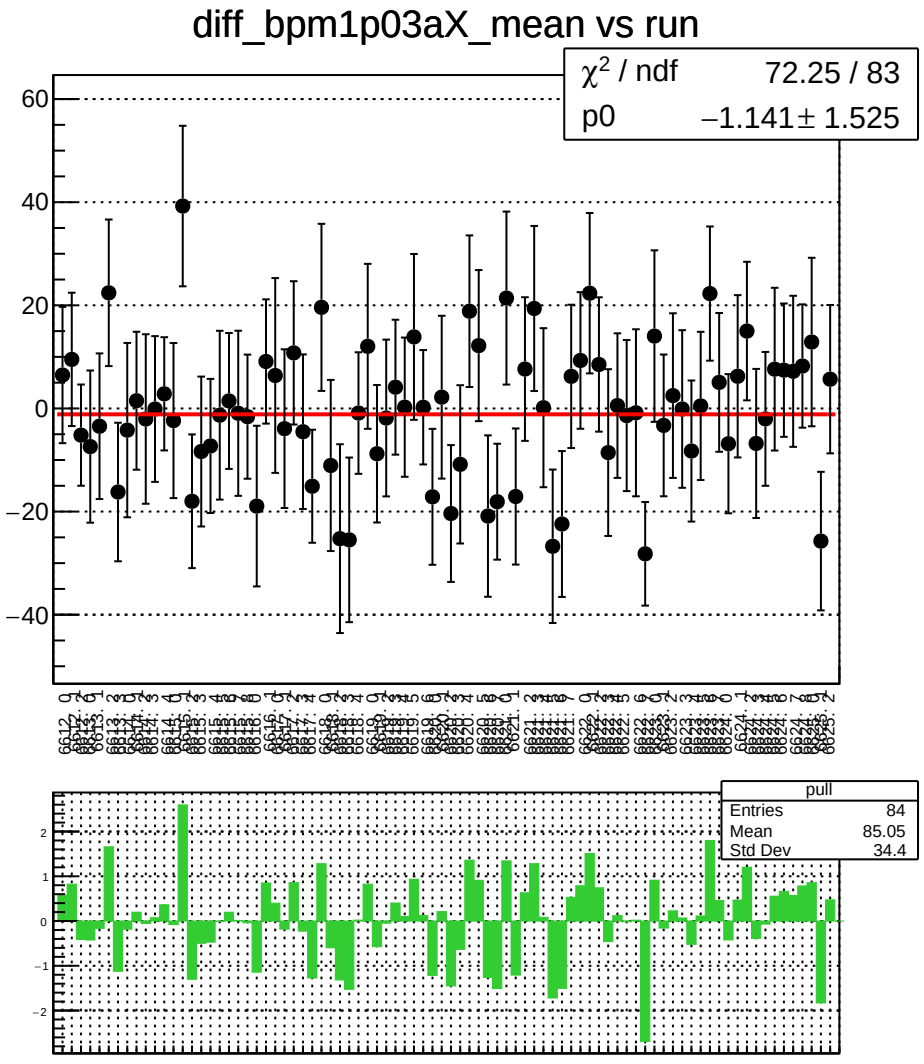

pull1D
Entries 84
Mean 0.02309
Std Dev 1.048

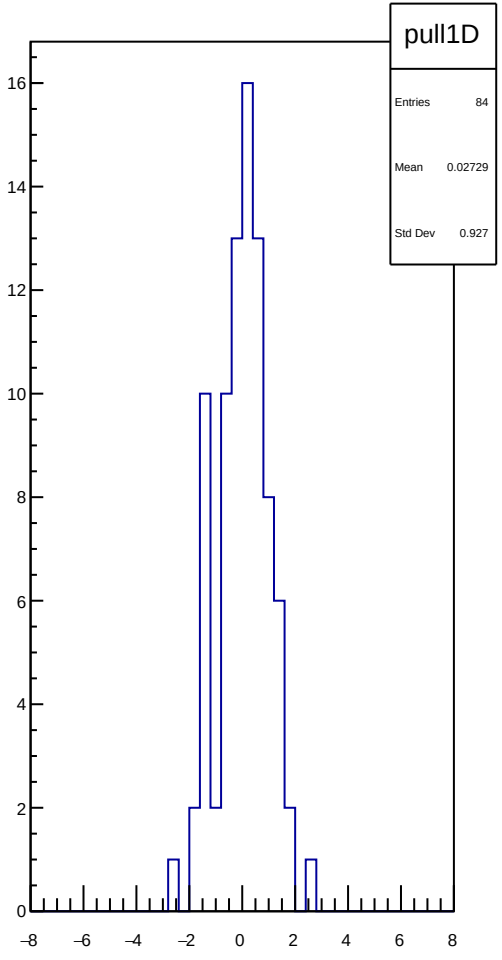

diff_bpm1p02bX_rms vs run
χ² / ndf 7063 / 83
p0 903.5 ± 0.7086
1100
1050
1000
950
900
850
800

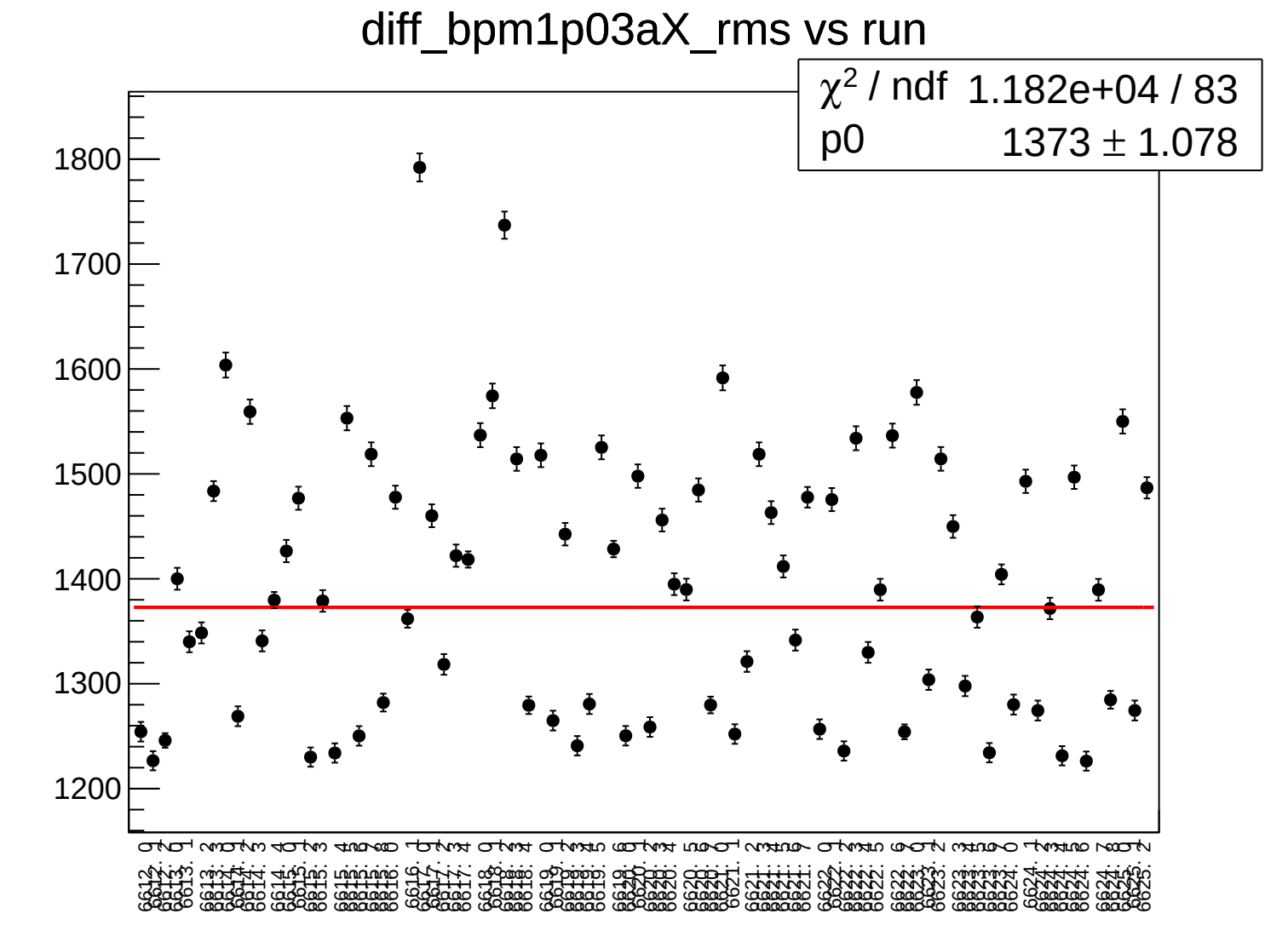

diff_bpm1p02bY_mean vs run
χ² / ndf 79.37 / 83
p0 1.933 ± 4.233
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −207.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

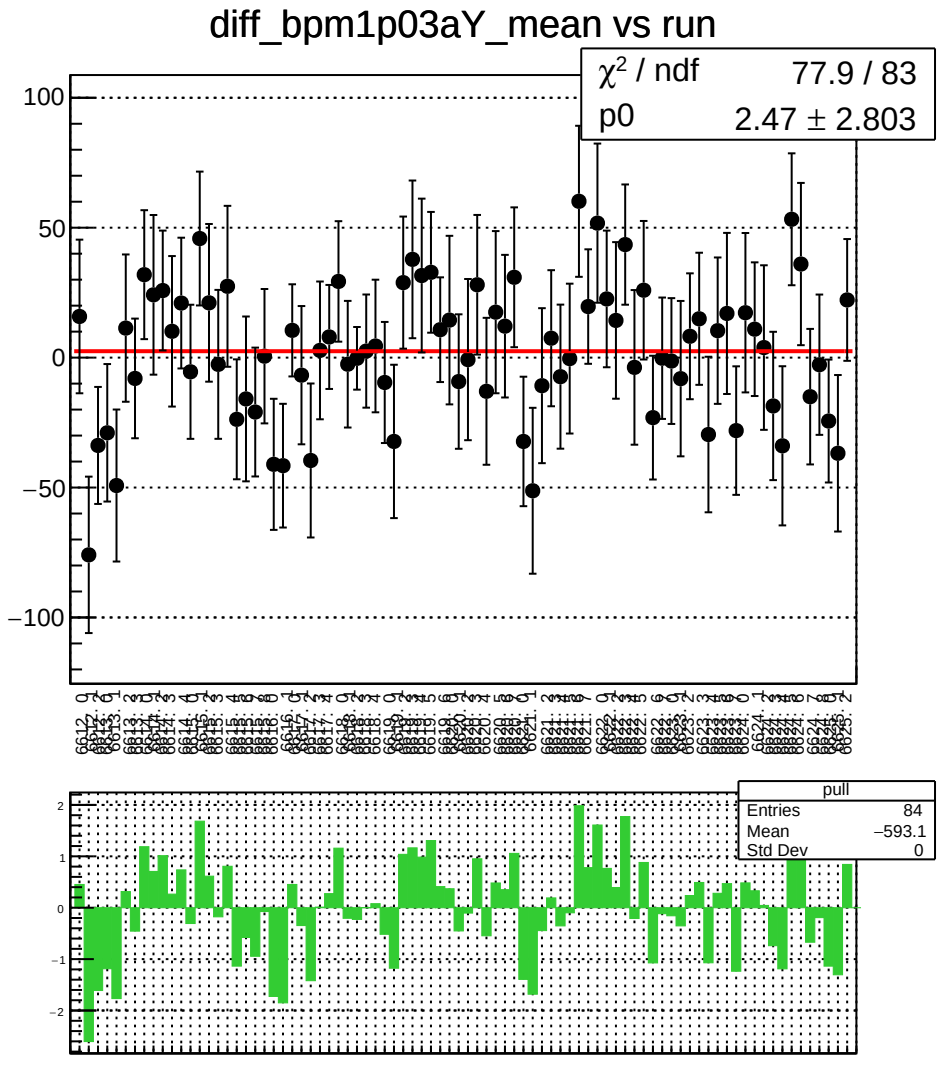

pull1D
Entries 84
Mean −0.009294
Std Dev 0.972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

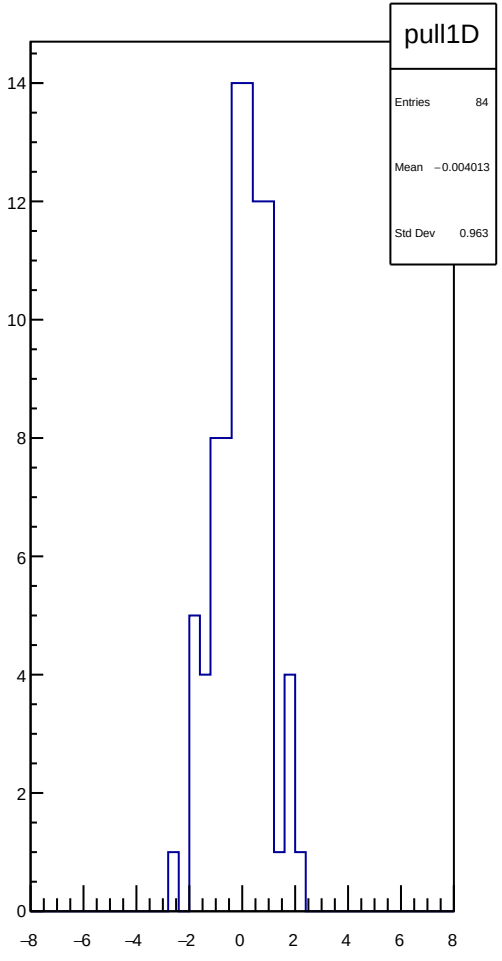

diff_bpm1p02bY_rms vs run
χ² / ndf 2.12e+04 / 83
p0 3800 ± 2.993
4500
4000
3500
3000
2500

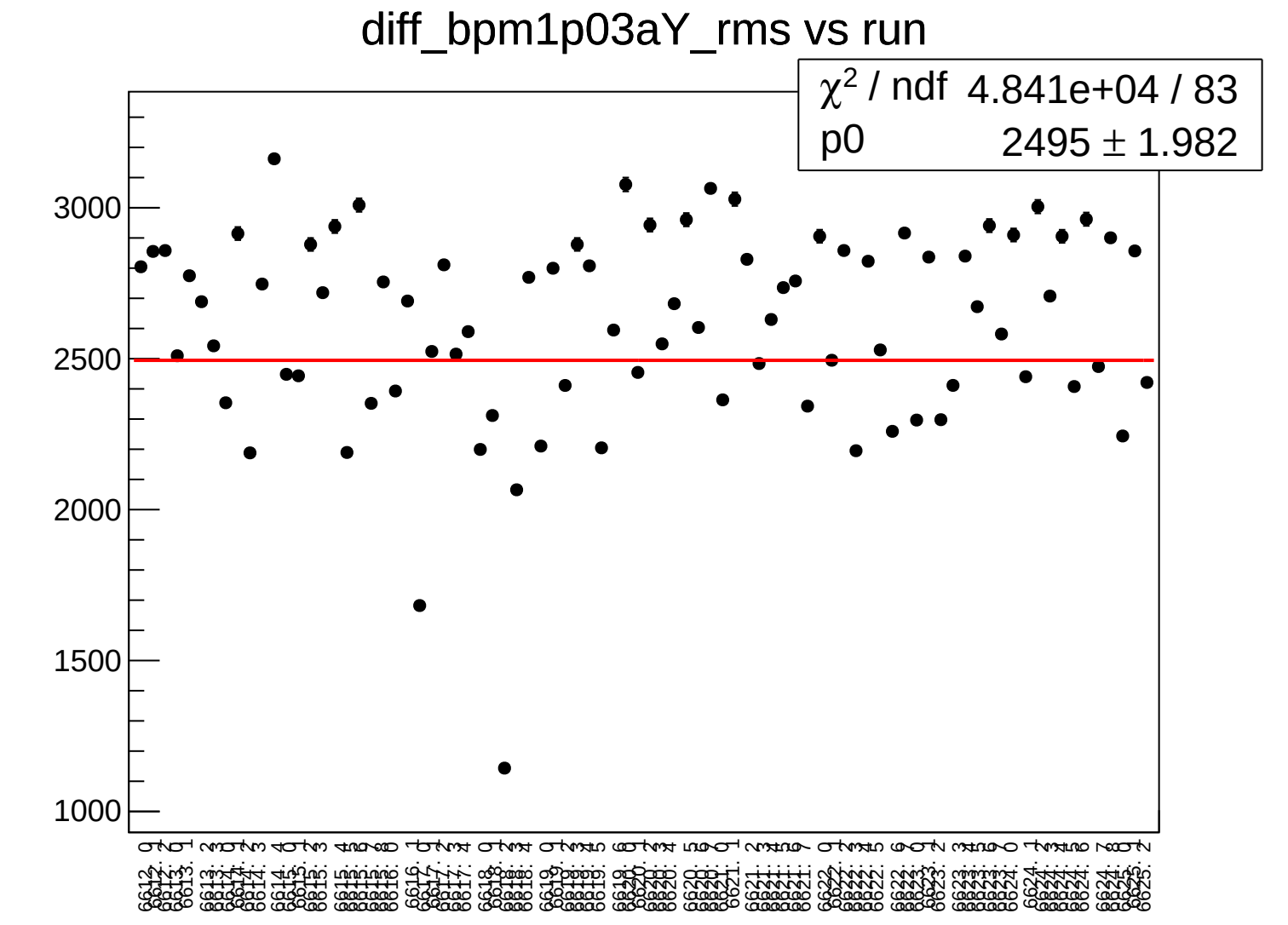

diff_bpm1p03aX_mean vs run
χ² / ndf 72.25 / 83
p0 −1.141 ± 1.525
pull
Entries 84
Mean 85.05
Std Dev 34.4

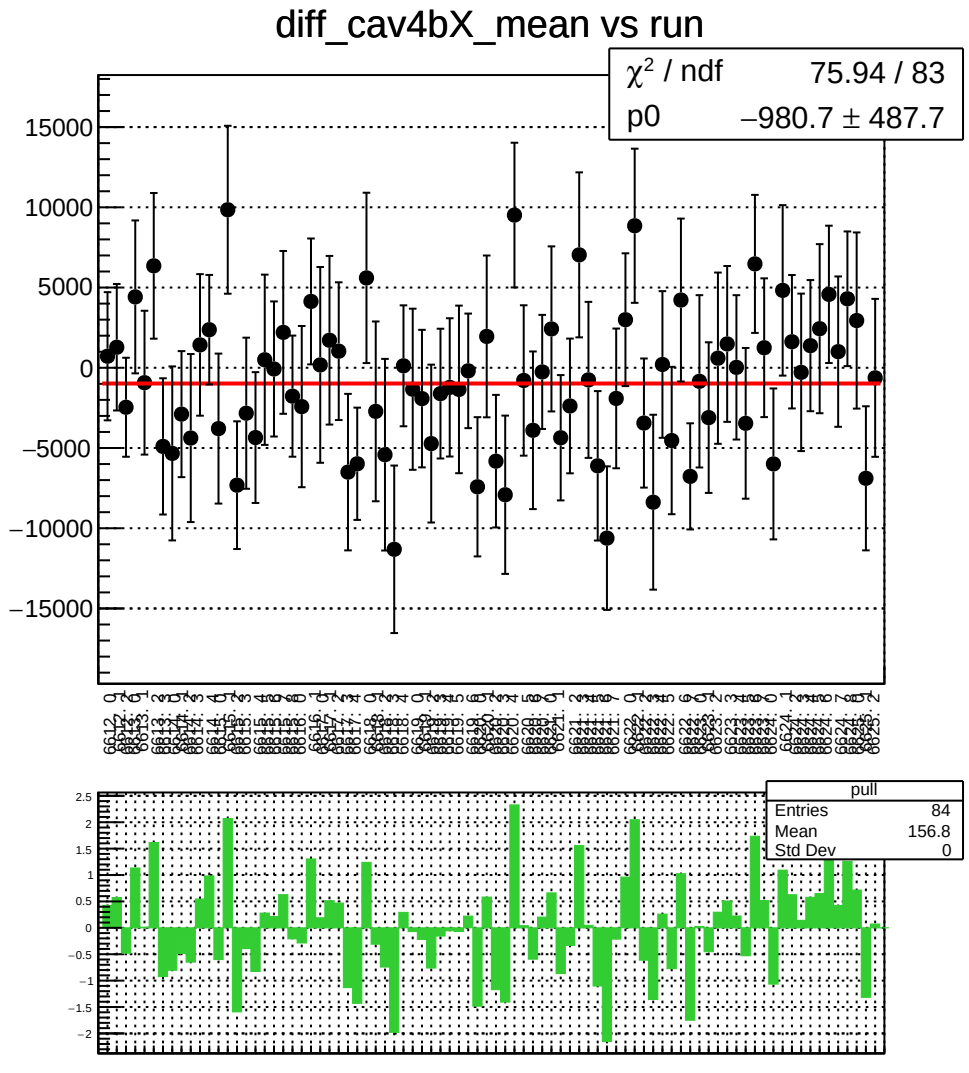

pull1D
Entries 84
Mean 0.02729
Std Dev 0.927

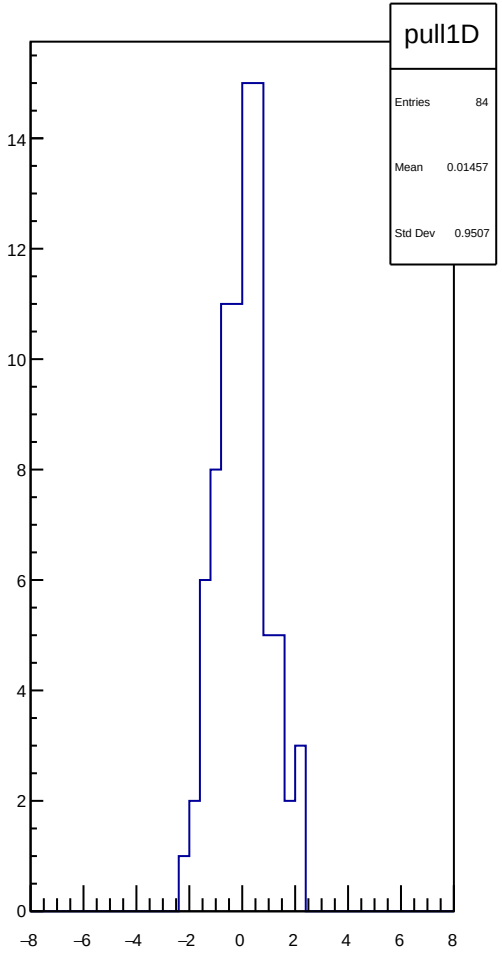

diff_bpm1p03aX_rms vs run
χ² / ndf 1.182e+04 / 83
p0 1373 ± 1.078
1800
1700
1600
1500
1400
1300
1200

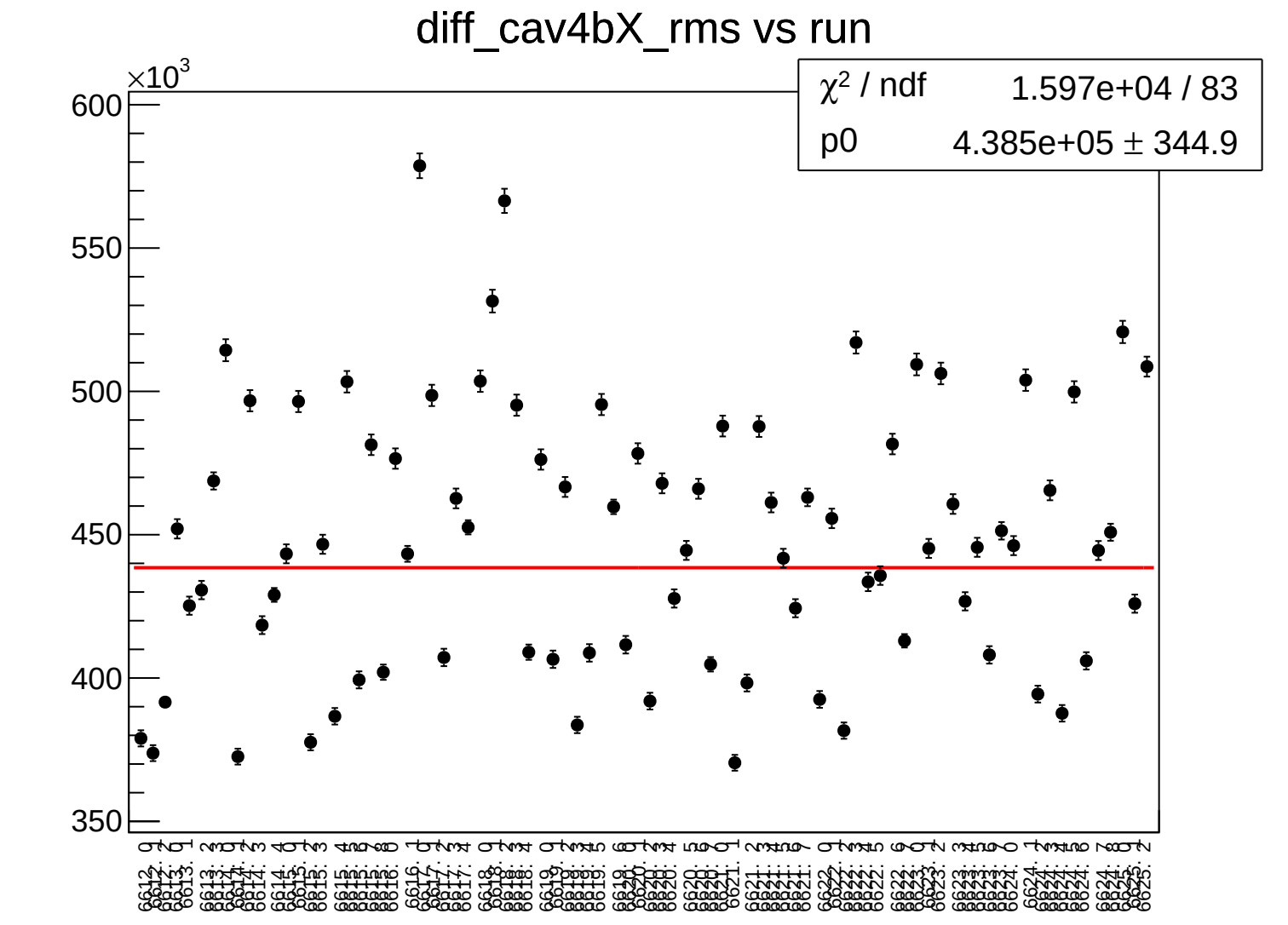

diff_bpm1p03aY_mean vs run
χ² / ndf 77.9 / 83
p0 2.47 ± 2.803
100
50
0
−50
−100
pull
Entries 84
Mean −593.1
Std Dev 0
2
1
0
−1
−2

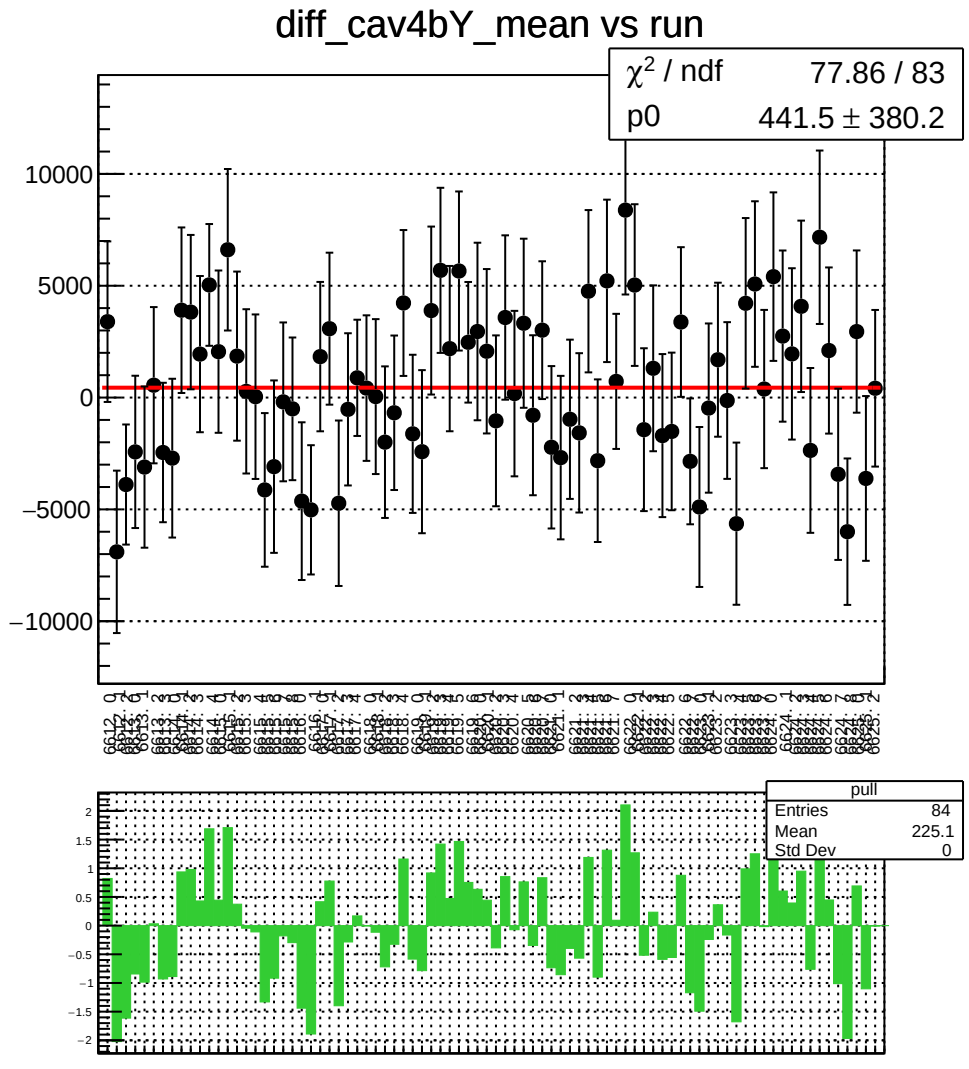

pull1D
Entries 84
Mean −0.004013
Std Dev 0.963
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

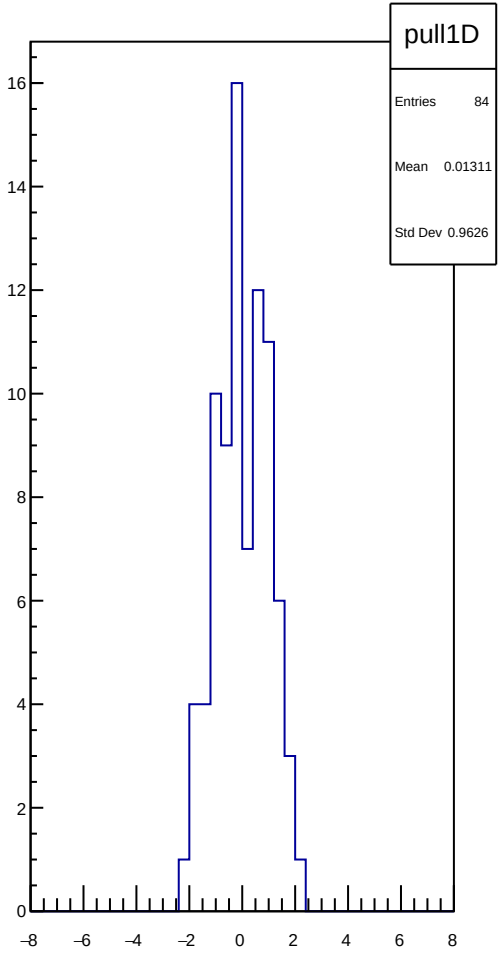

diff_bpm1p03aY_rms vs run
χ² / ndf 4.841e+04 / 83
p0 2495 ± 1.982
3000
2500
2000
1500
1000

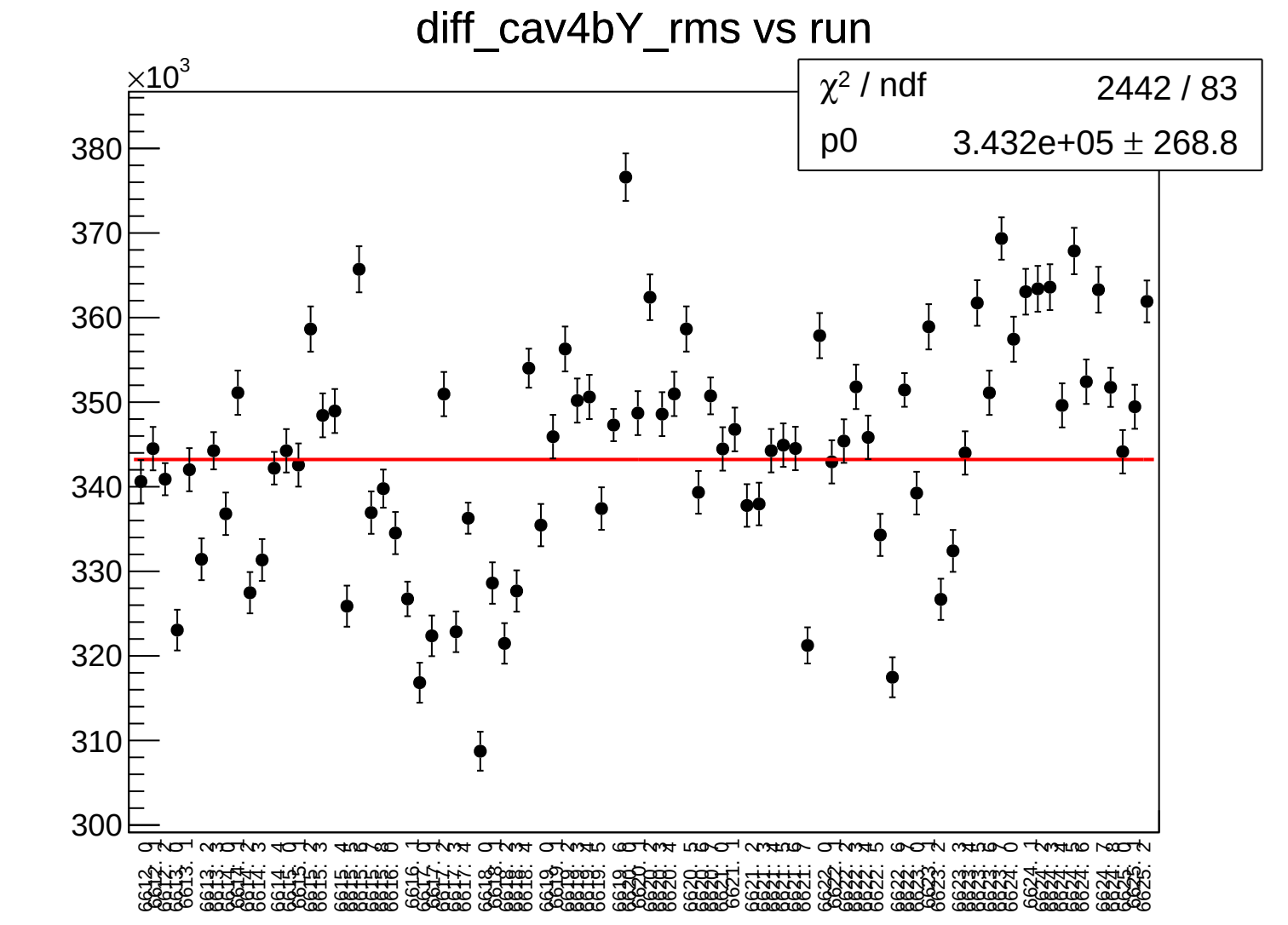

diff_cav4bX_mean vs run
χ² / ndf 75.94 / 83
p0 −980.7 ± 487.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 156.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

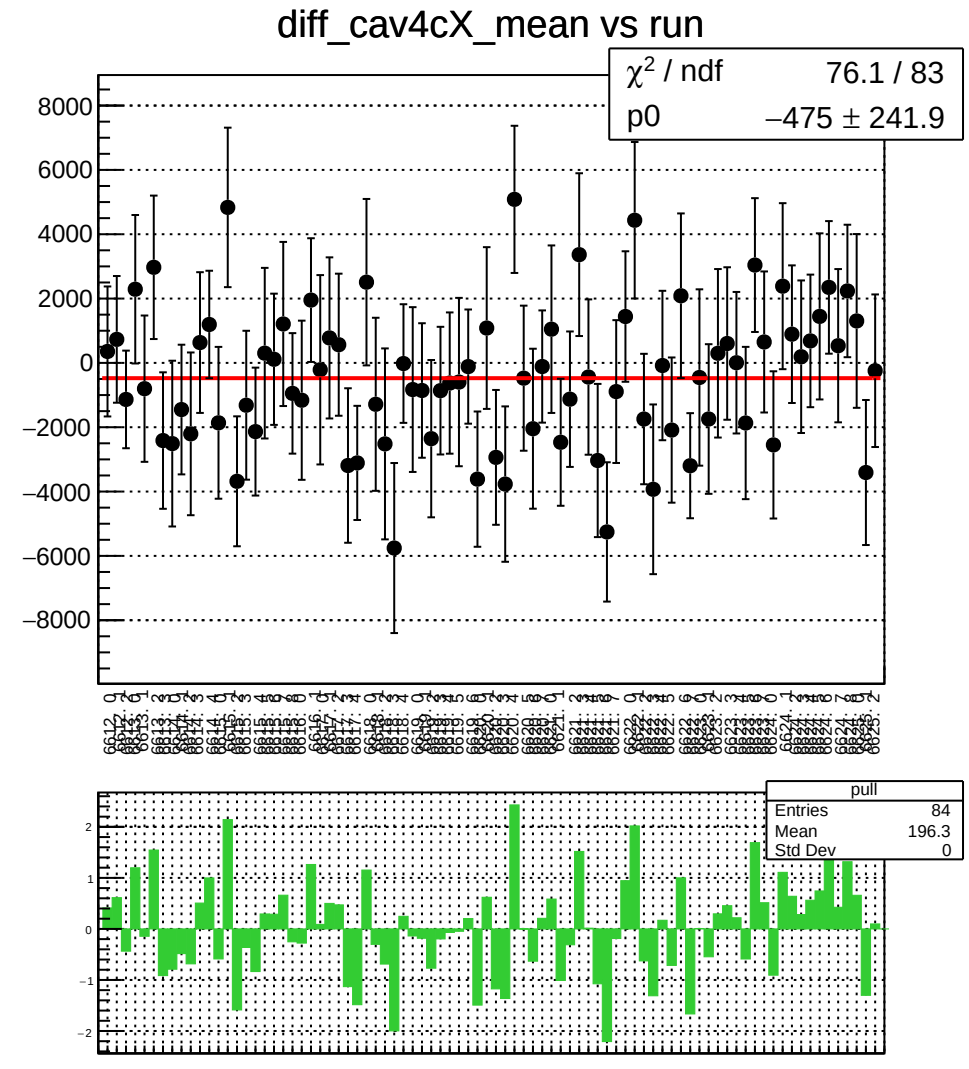

pull1D
Entries 84
Mean 0.01457
Std Dev 0.9507
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

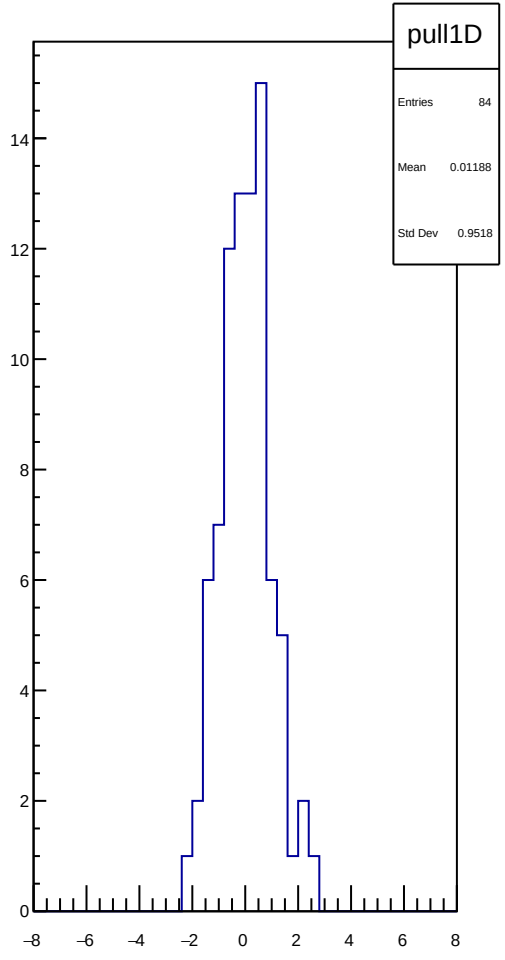

diff_cav4bX_rms vs run
×10^3
600
550
500
450
400
350
χ² / ndf 1.597e+04 / 83
p0 4.385e+05 ± 344.9

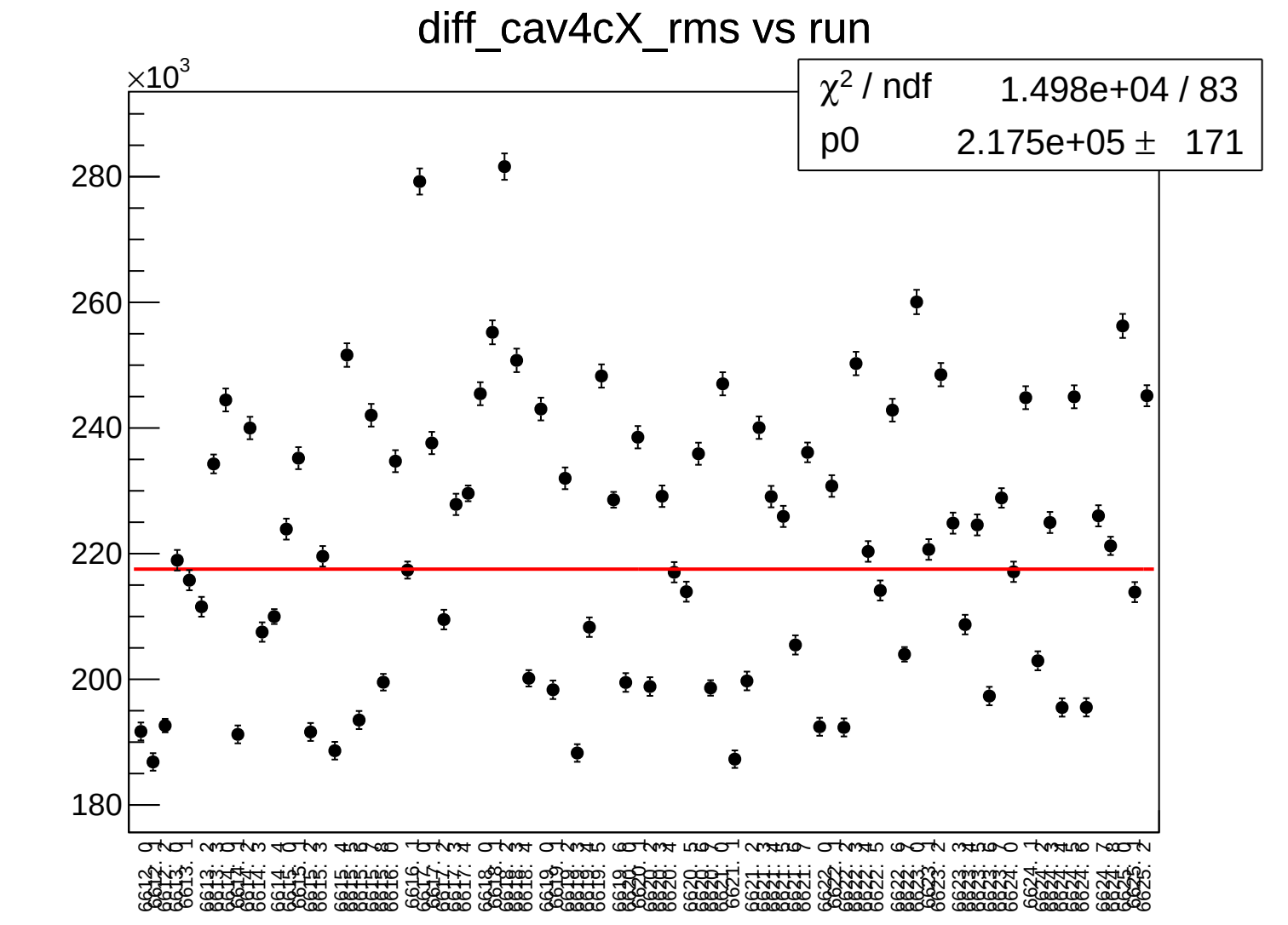

diff_cav4bY_mean vs run
χ^2 / ndf 77.86 / 83
p0 441.5 ± 380.2
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 225.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

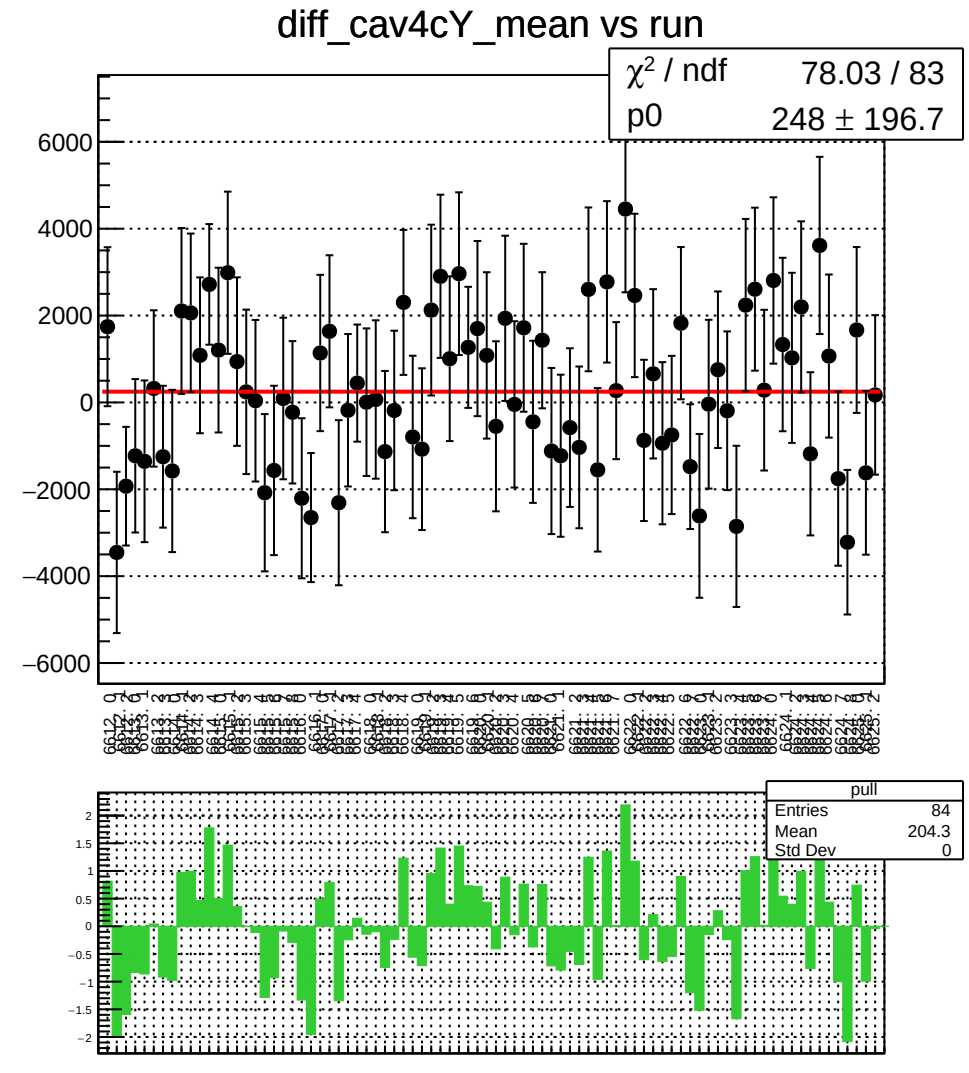

pull1D
Entries 84
Mean 0.01311
Std Dev 0.9626
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

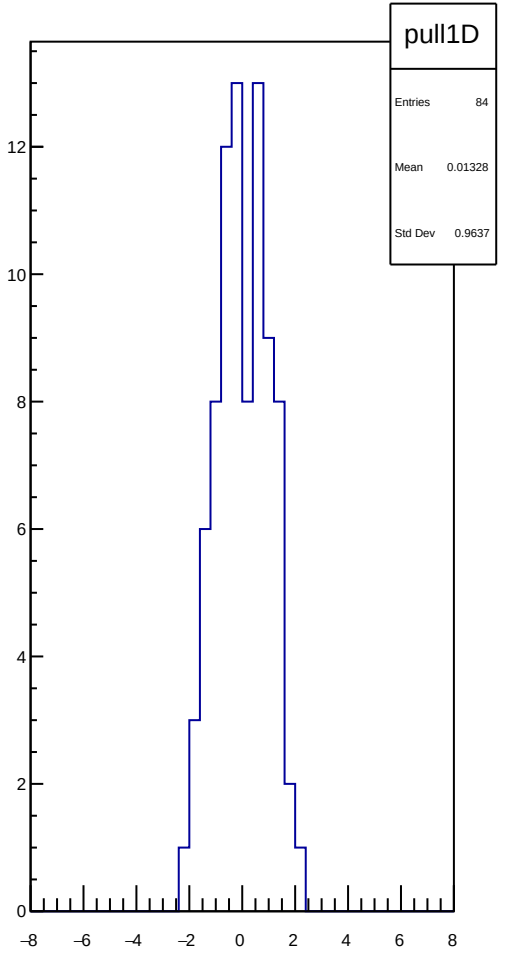

diff_cav4bY_rms vs run
×10^3
χ² / ndf 2442 / 83
p0 3.432e+05 ± 268.8
380
370
360
350
340
330
320
310
300

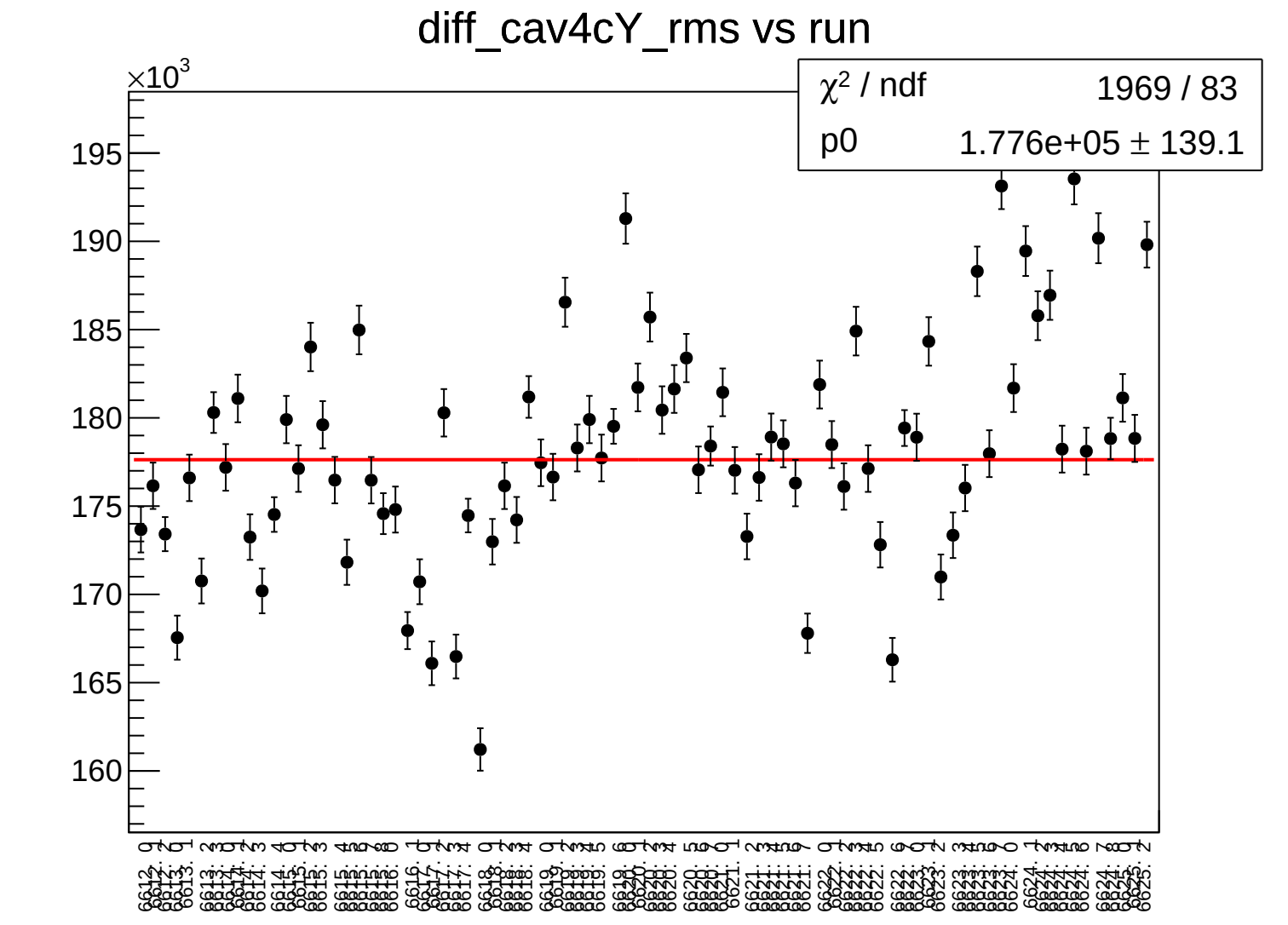

diff_cav4cX_mean vs run
χ^2 / ndf 76.1 / 83
p0 −475 ± 241.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean 196.3
Std Dev 0
2
1
0
−1
−2

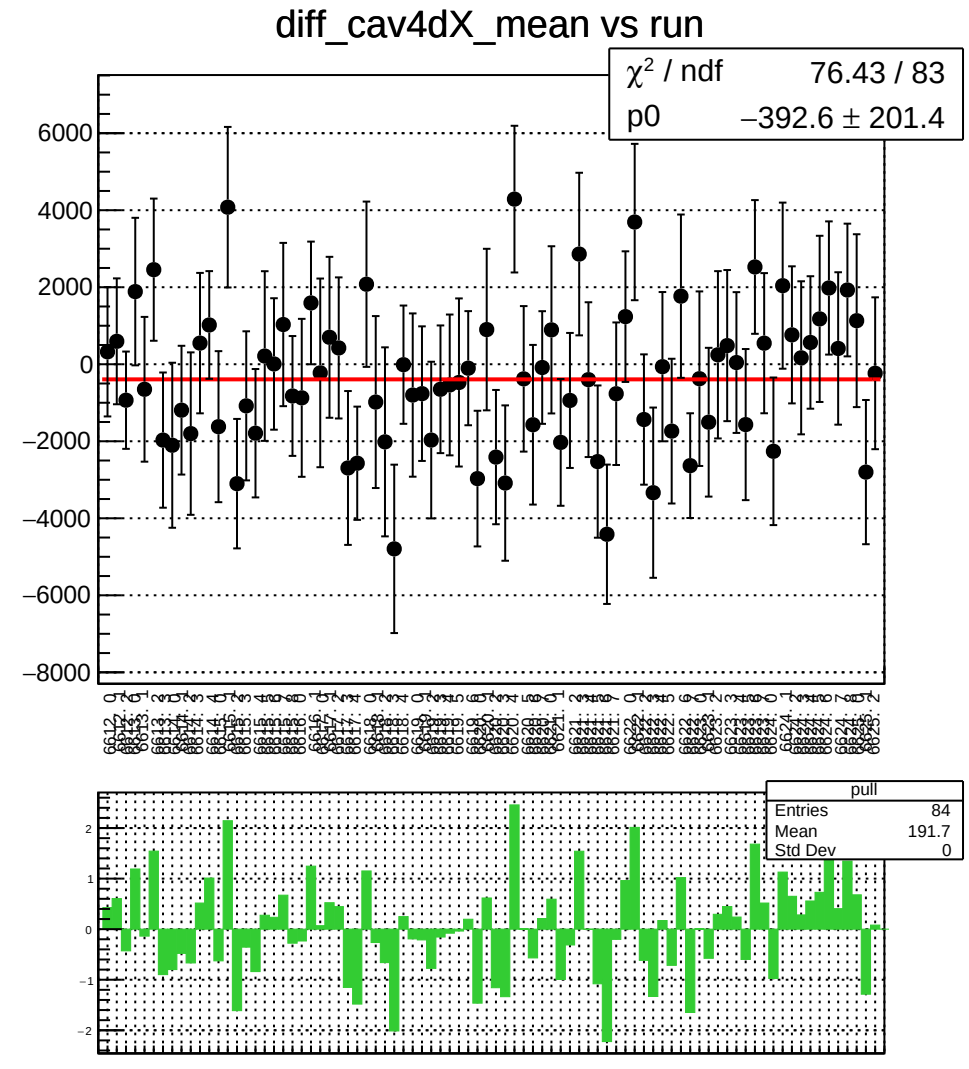

pull1D
Entries 84
Mean 0.01188
Std Dev 0.9518
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

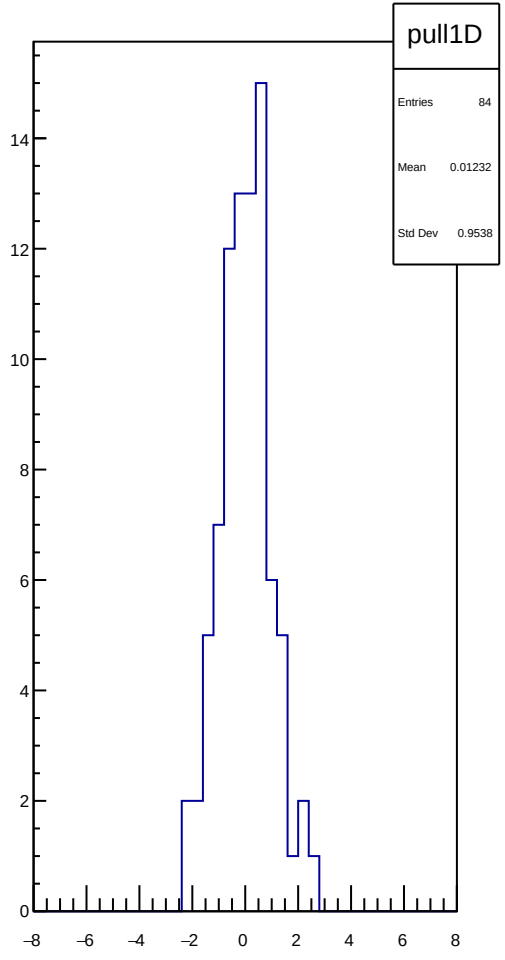

diff_cav4cX_rms vs run
×10^3
χ^2 / ndf 1.498e+04 / 83
p0 2.175e+05 ± 171
280
260
240
220
200
180

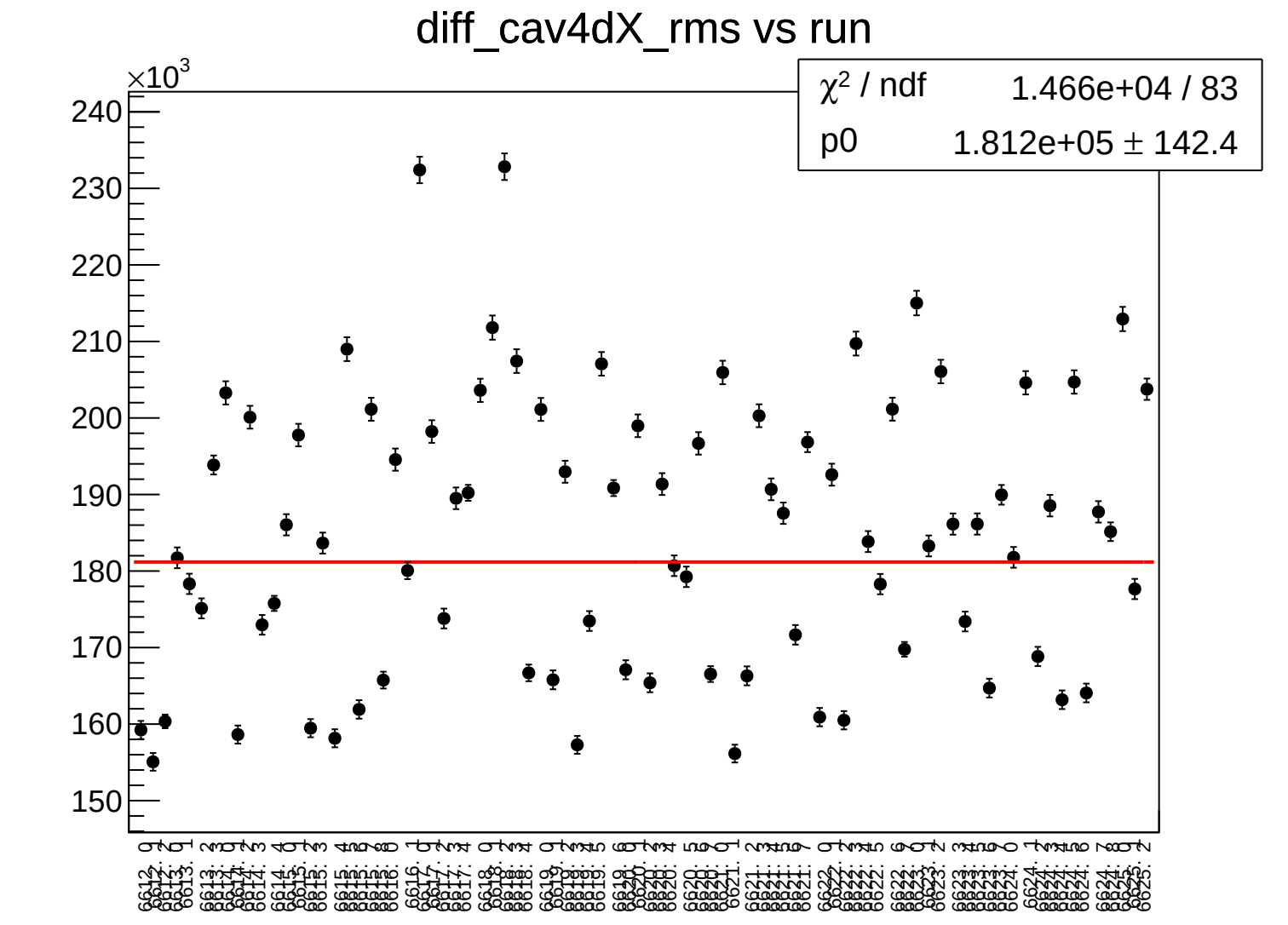

diff_cav4cY_mean vs run
χ² / ndf 78.03 / 83
p0 248 ± 196.7
pull
Entries 84
Mean 204.3
Std Dev 0

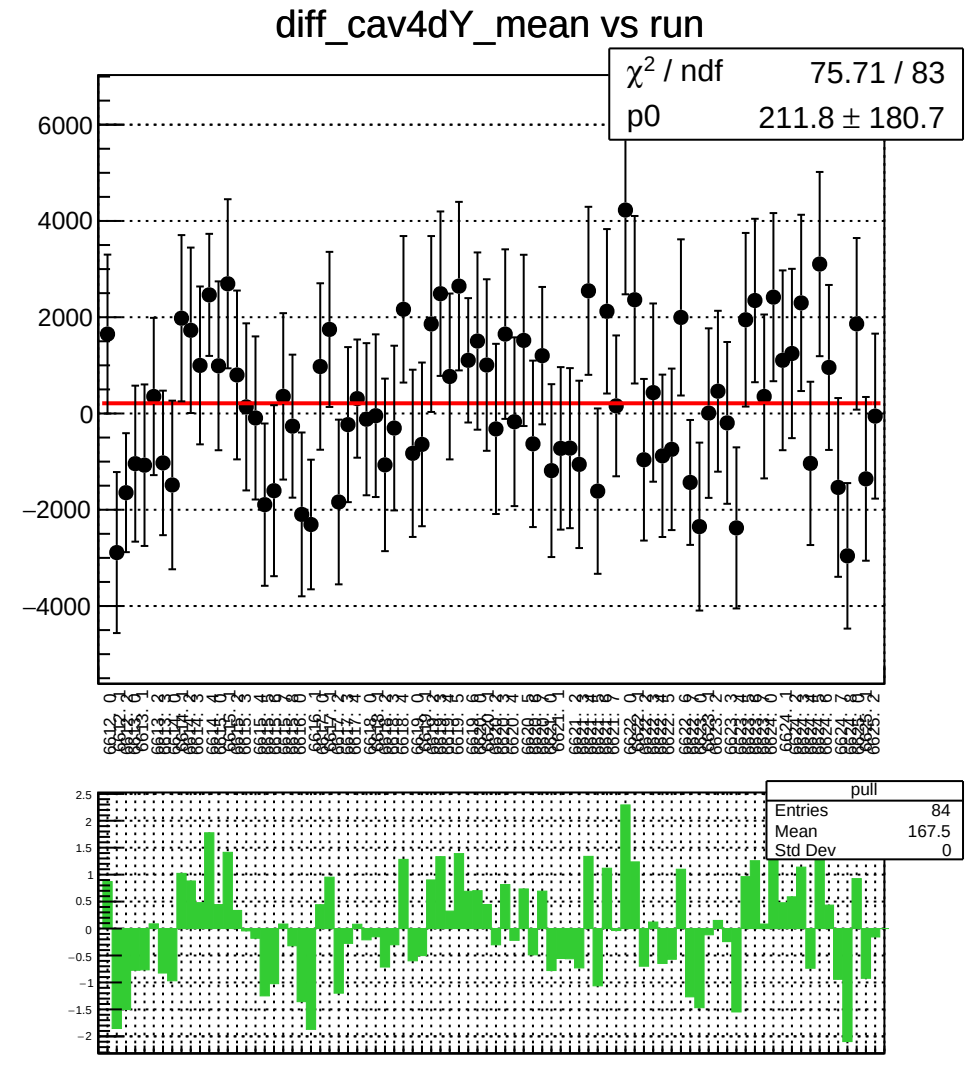

pull1D
Entries 84
Mean 0.01328
Std Dev 0.9637

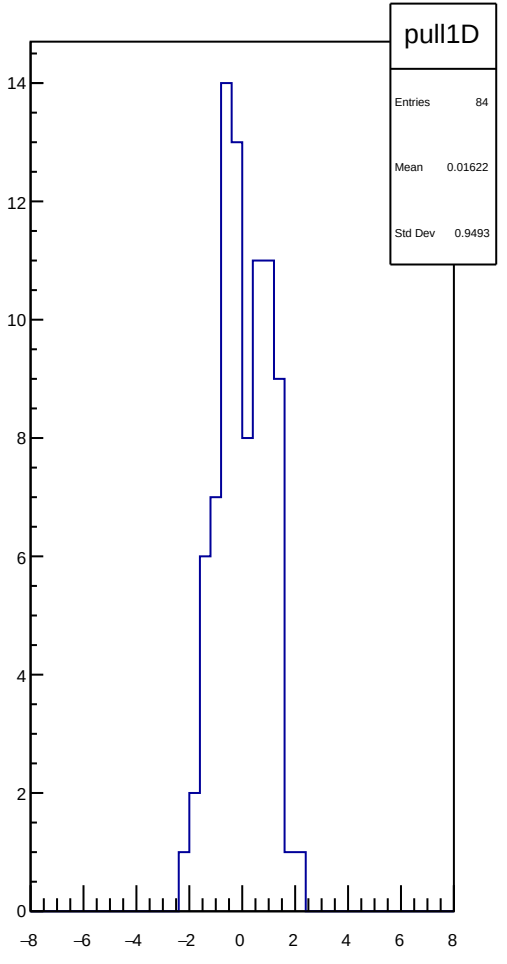

diff_cav4cY_rms vs run
×10^3
χ² / ndf 1969 / 83
p0 1.776e+05 ± 139.1
195
190
185
180
175
170
165
160

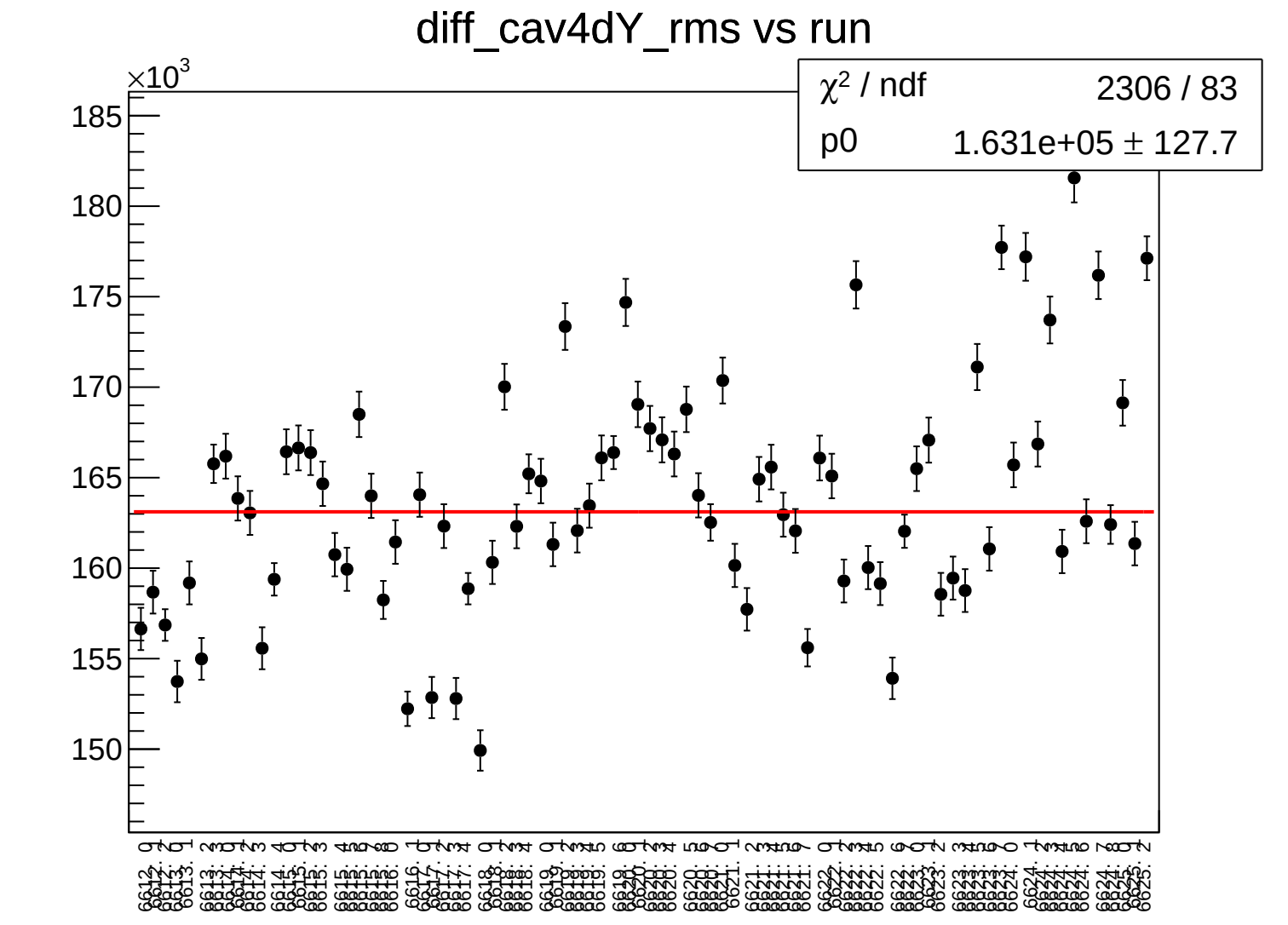

diff_cav4dX_mean vs run
χ² / ndf 76.43 / 83
p0 −392.6 ± 201.4
pull
Entries 84
Mean 191.7
Std Dev 0

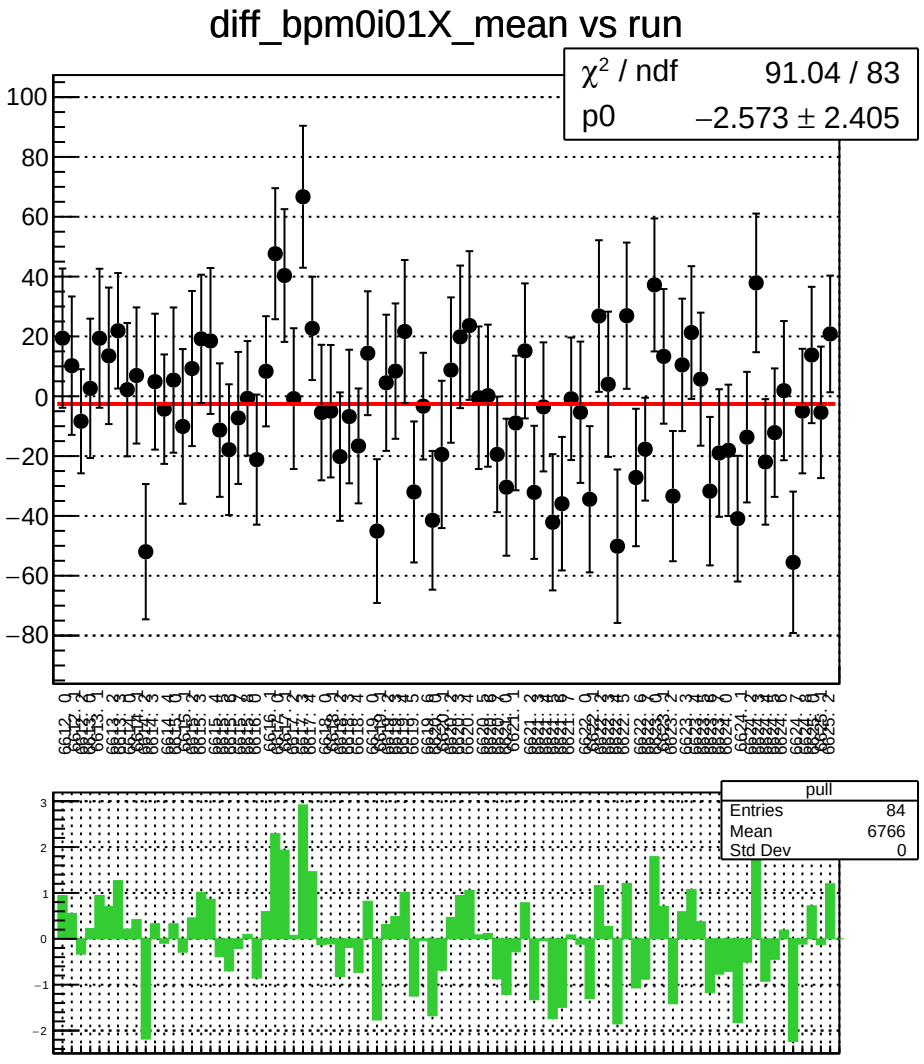

pull1D
Entries 84
Mean 0.01232
Std Dev 0.9538

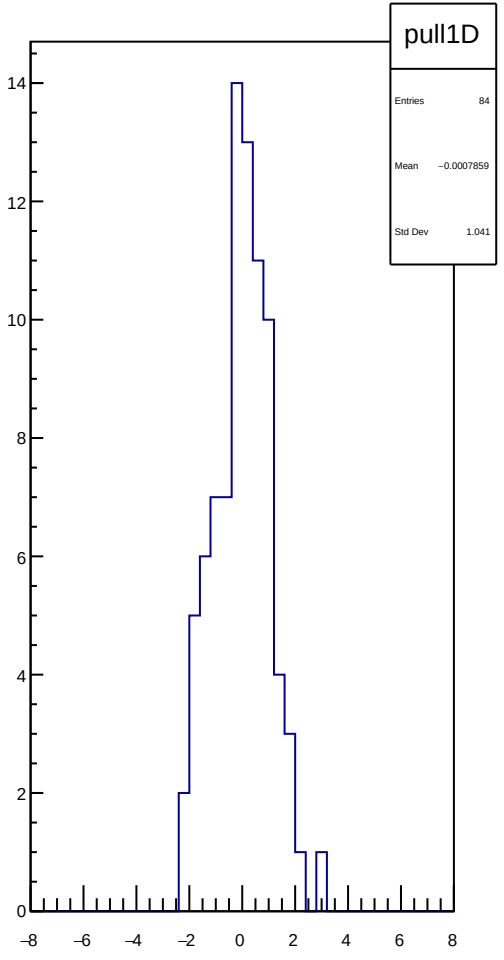

diff_cav4dX_rms vs run
×10^3
χ² / ndf 1.466e+04 / 83
p0 1.812e+05 ± 142.4
240
230
220
210
200
190
180
170
160
150

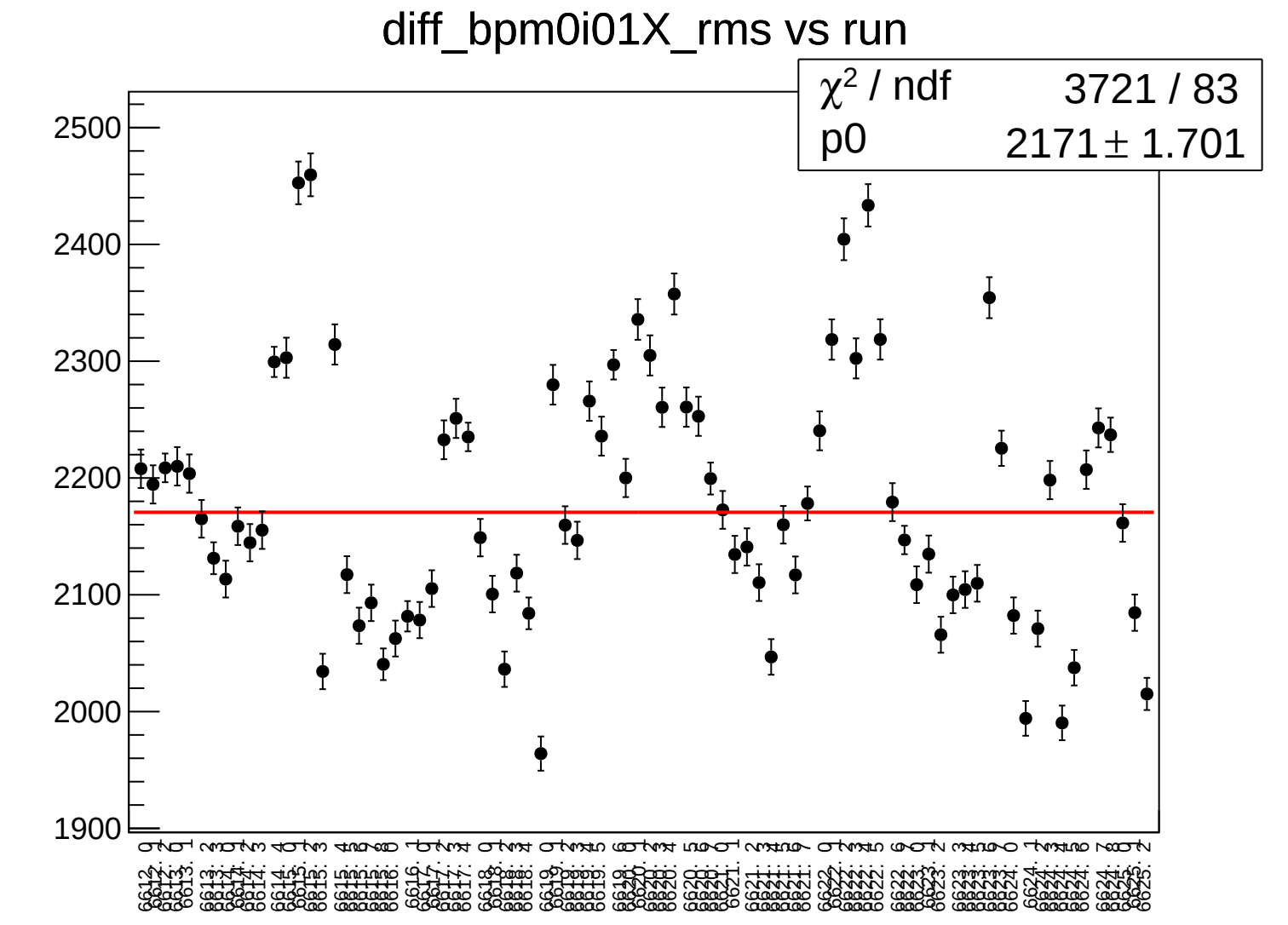

diff_cav4dY_mean vs run
χ^2 / ndf 75.71 / 83
p0 211.8 ± 180.7
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 167.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

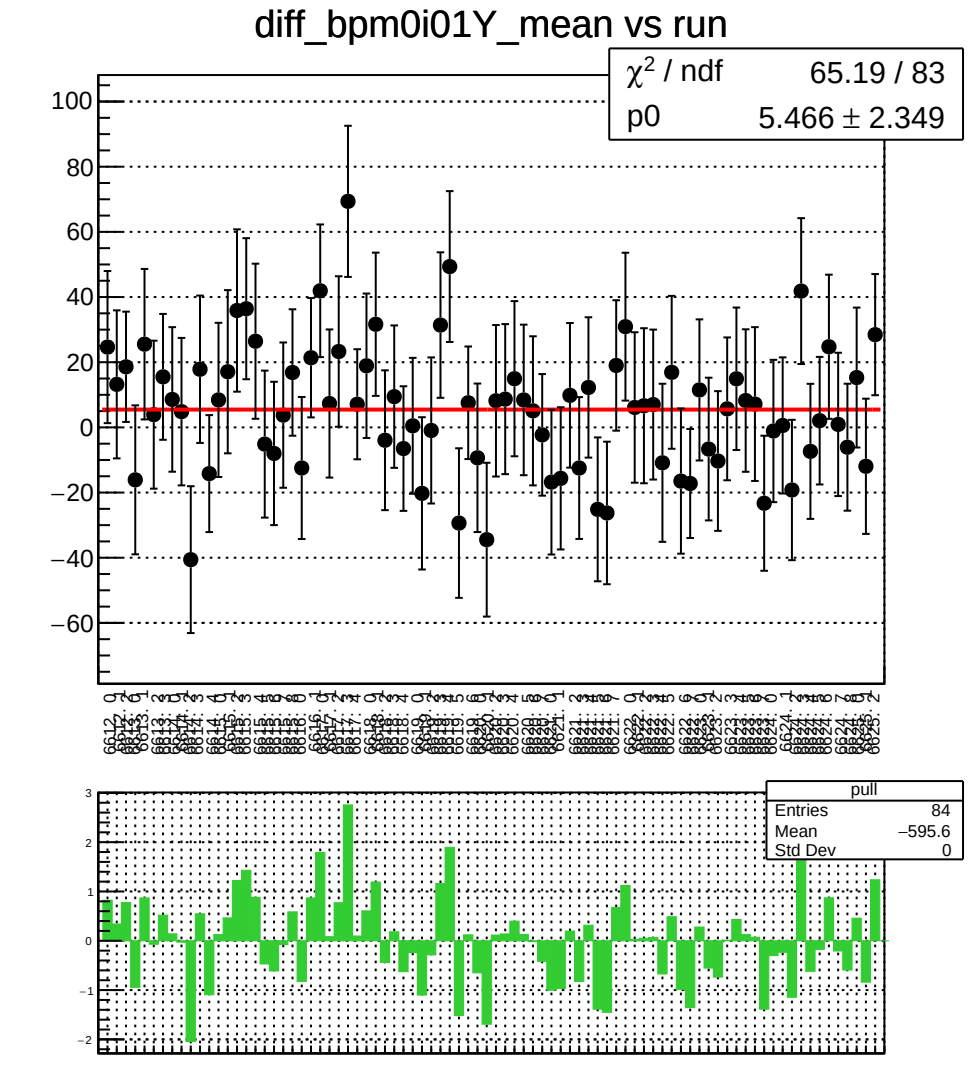

pull1D
Entries 84
Mean 0.01622
Std Dev 0.9493
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

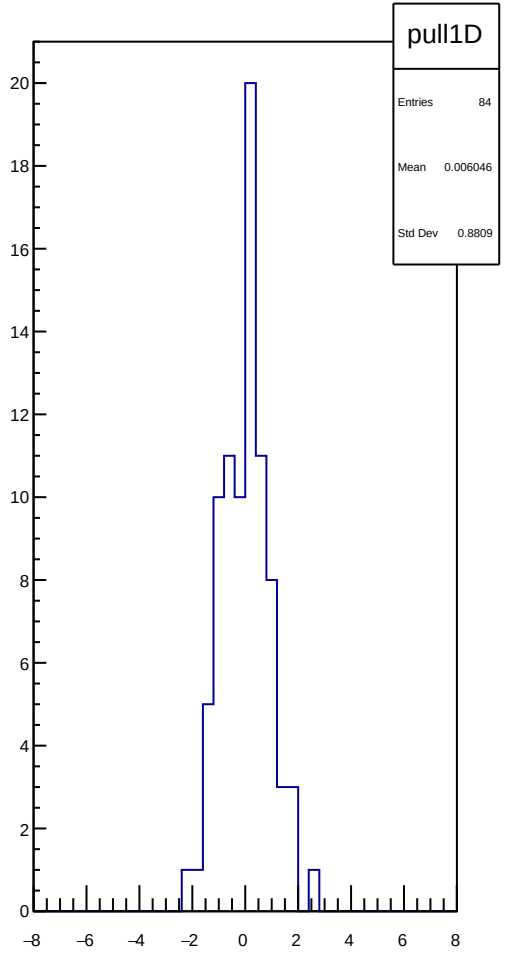

diff_cav4dY_rms vs run
×10^3
χ² / ndf 2306 / 83
p0 1.631e+05 ± 127.7
185
180
175
170
165
160
155
150

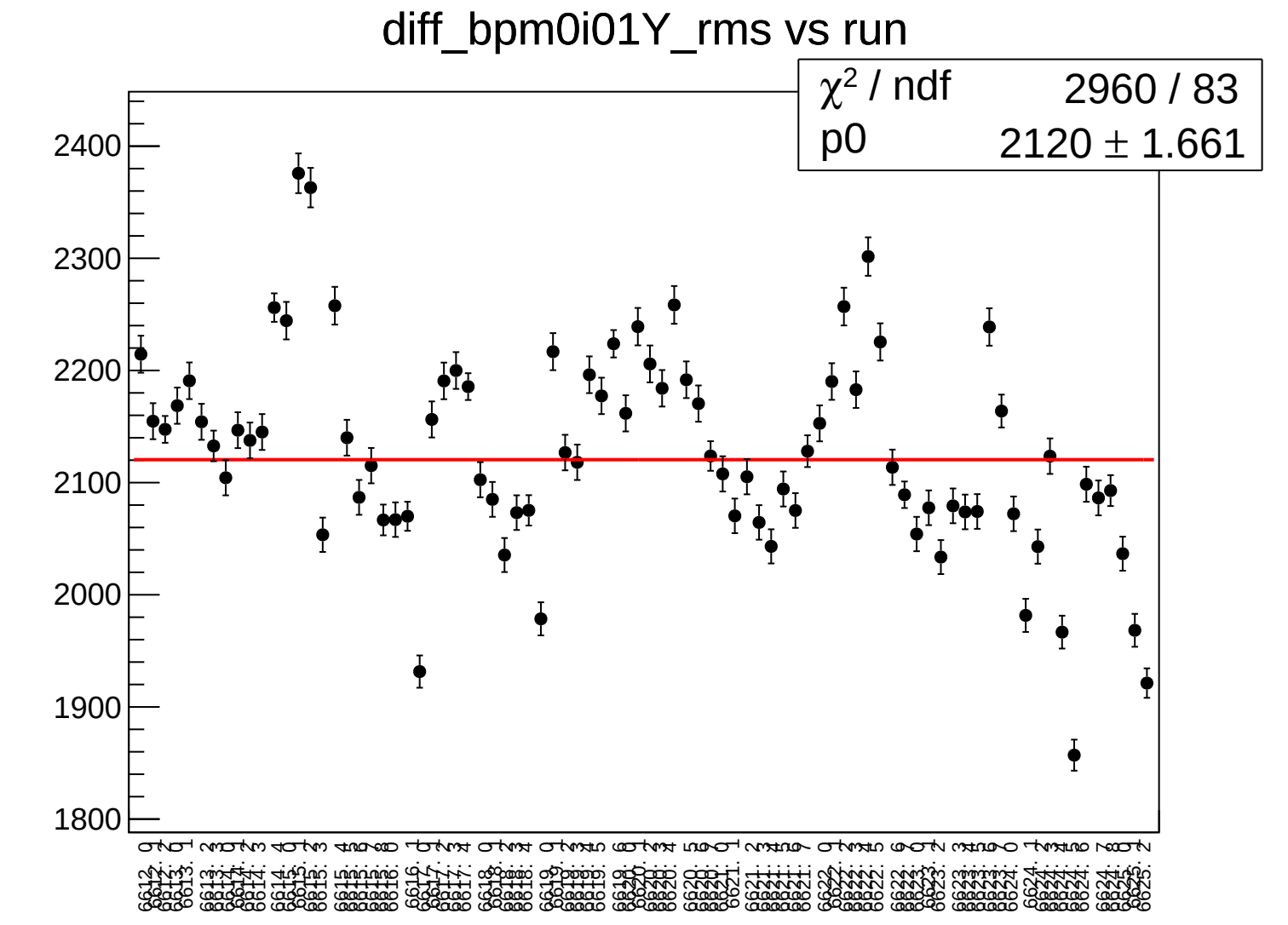

diff_bpm0i01X_mean vs run
χ² / ndf 91.04 / 83
p0 −2.573 ± 2.405
pull
Entries 84
Mean 6766
Std Dev 0

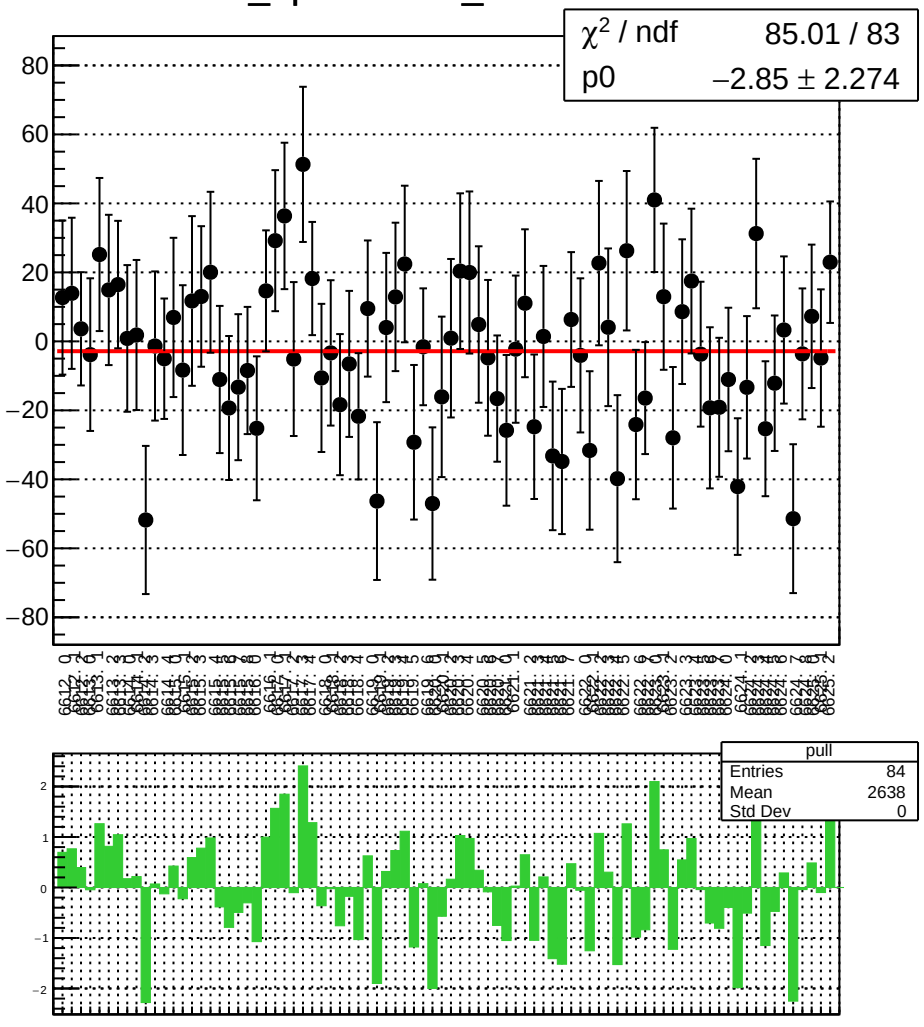

pull1D
Entries 84
Mean −0.0007859
Std Dev 1.041

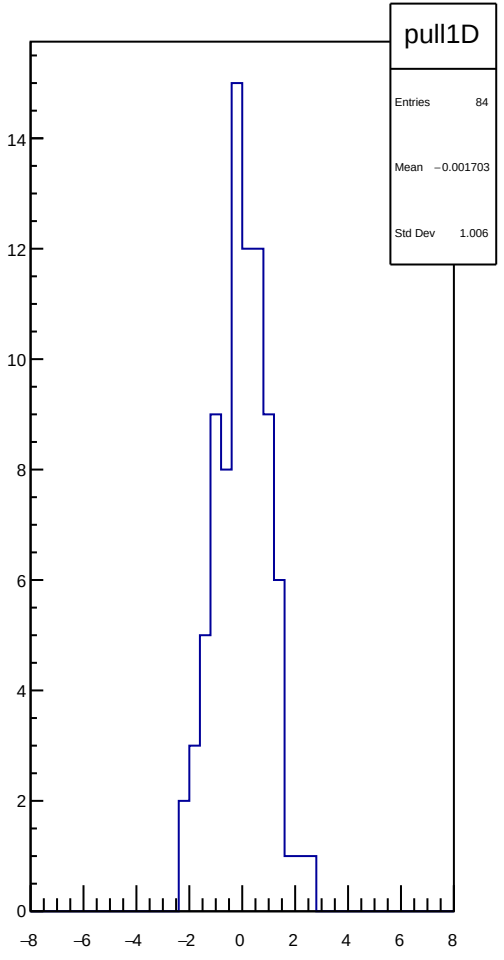

diff_bpm0i01X_rms vs run
χ² / ndf 3721 / 83
p0 2171 ± 1.701
2500
2400
2300
2200
2100
2000
1900

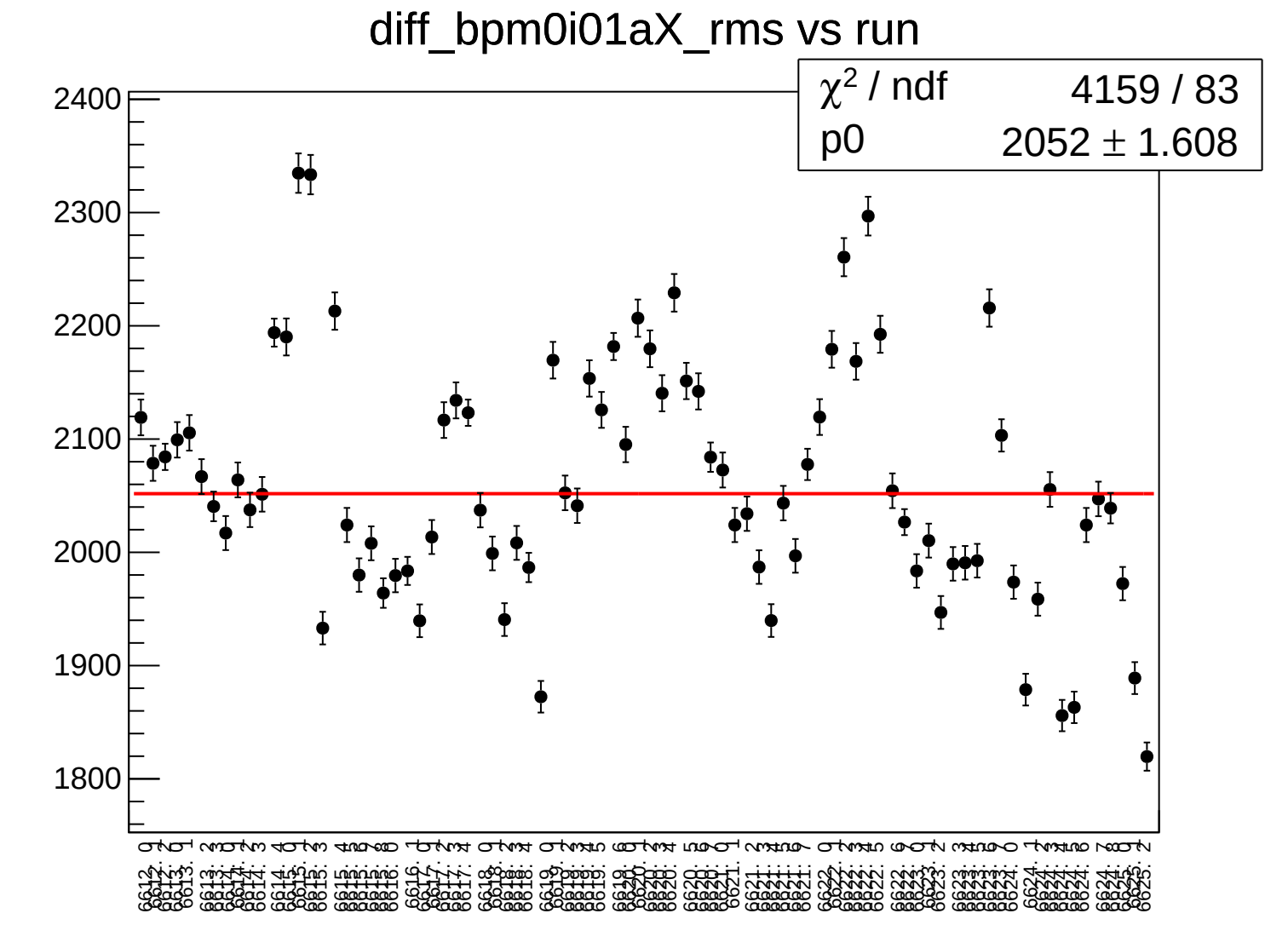

diff_bpm0i01Y_mean vs run
χ² / ndf 65.19 / 83
p0 5.466 ± 2.349
pull
Entries 84
Mean −595.6
Std Dev 0

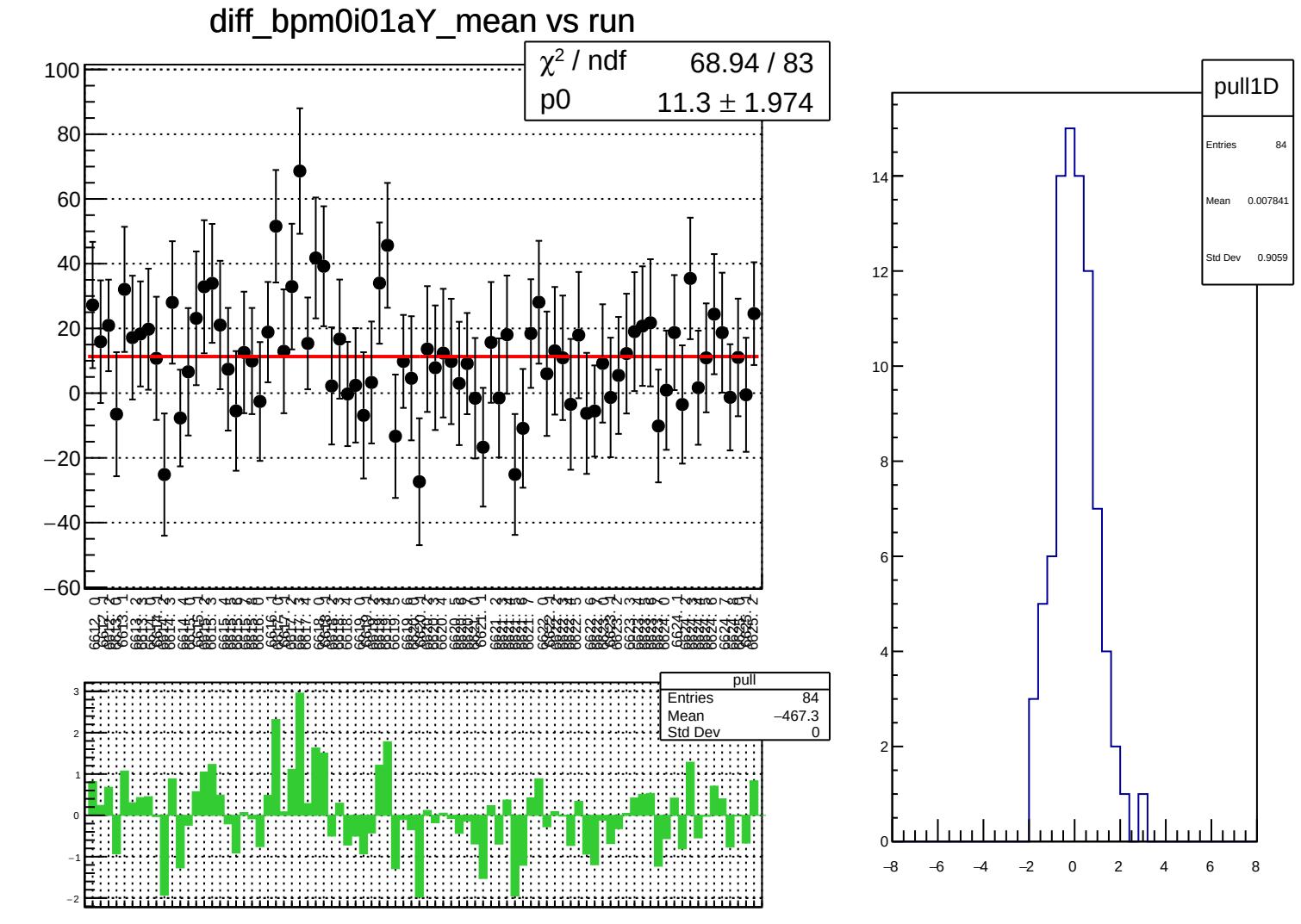

pull1D
Entries 84
Mean 0.006046
Std Dev 0.8809

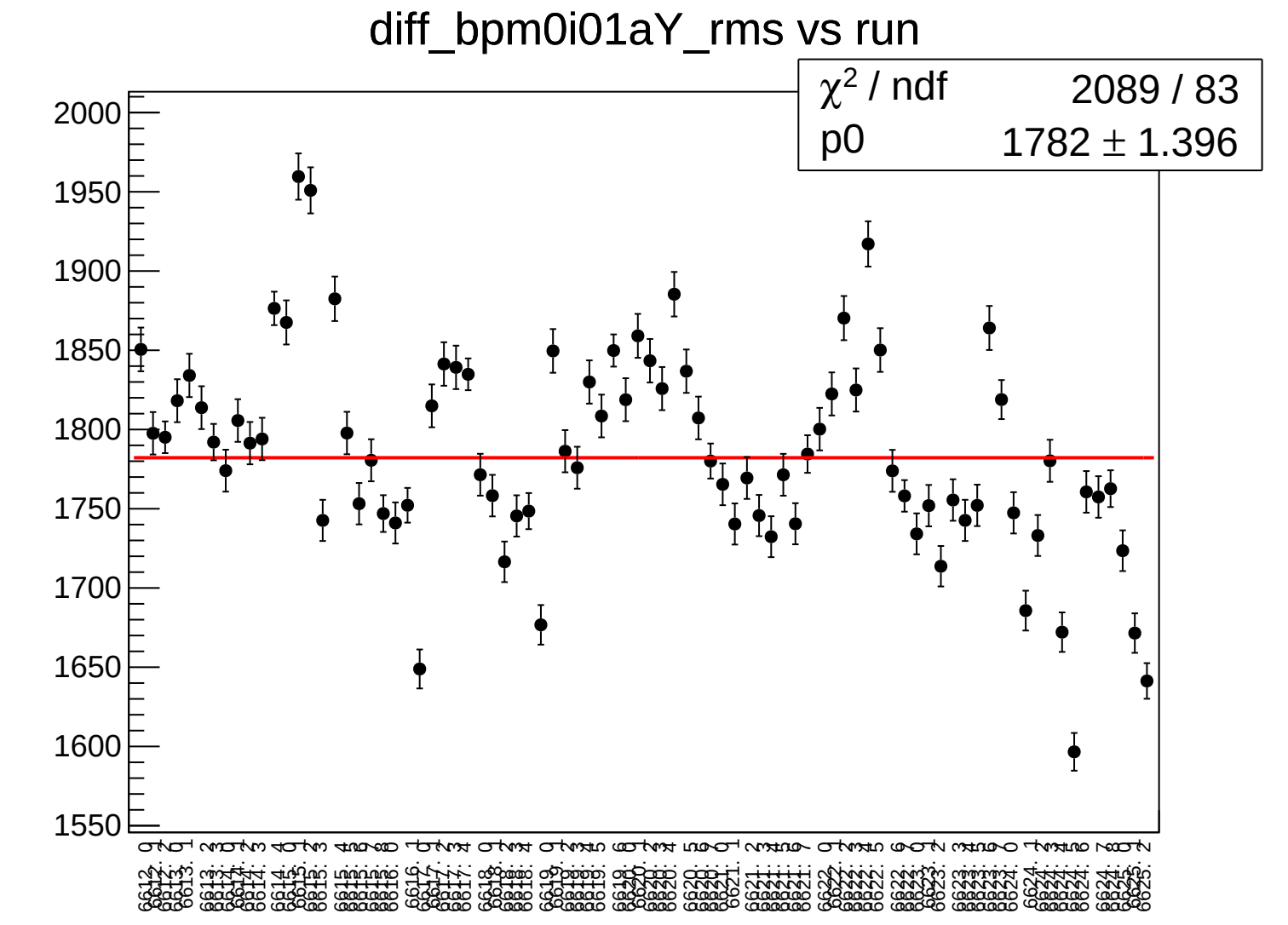

diff_bpm0i01Y_rms vs run
χ² / ndf 2960 / 83
p0 2120 ± 1.661
2400
2300
2200
2100
2000
1900
1800

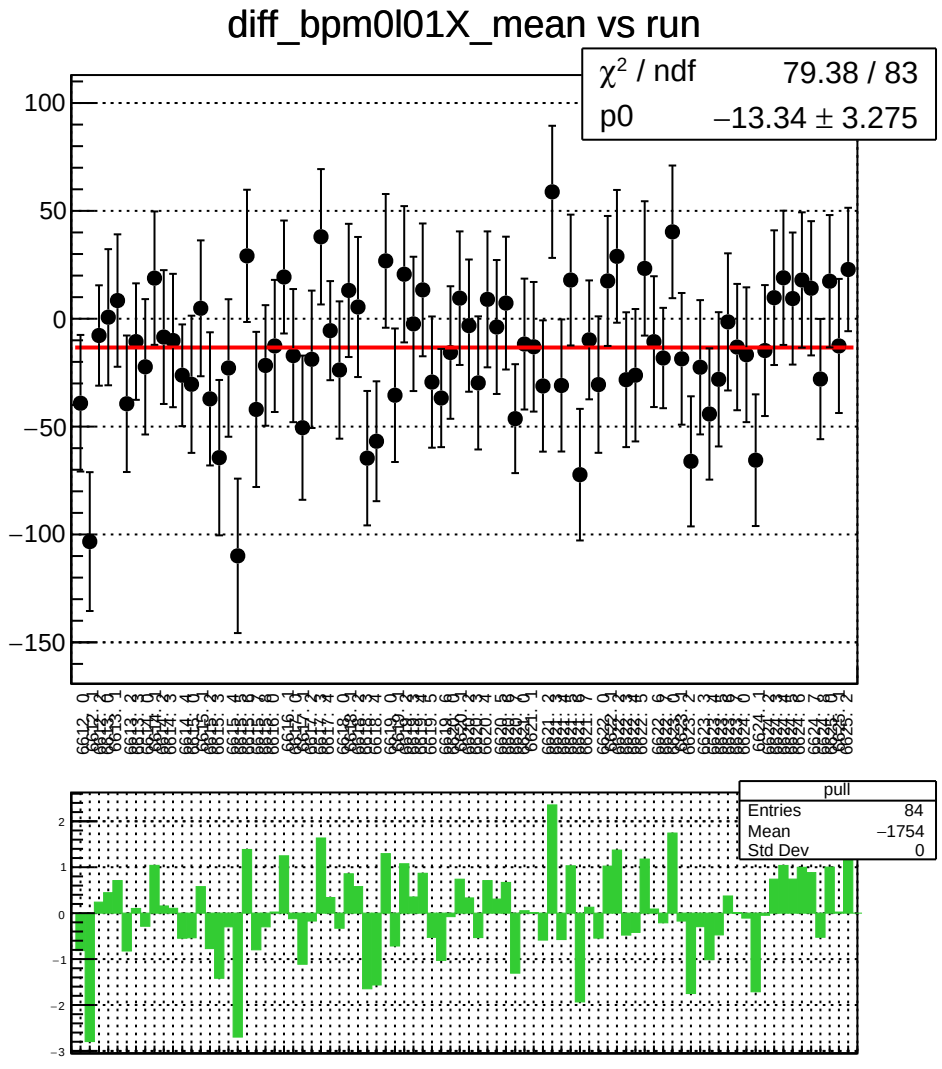

diff_bpm0i01aX_mean vs run
χ² / ndf 85.01 / 83
p0 −2.85 ± 2.274
pull
Entries 84
Mean 2638
Std Dev 0

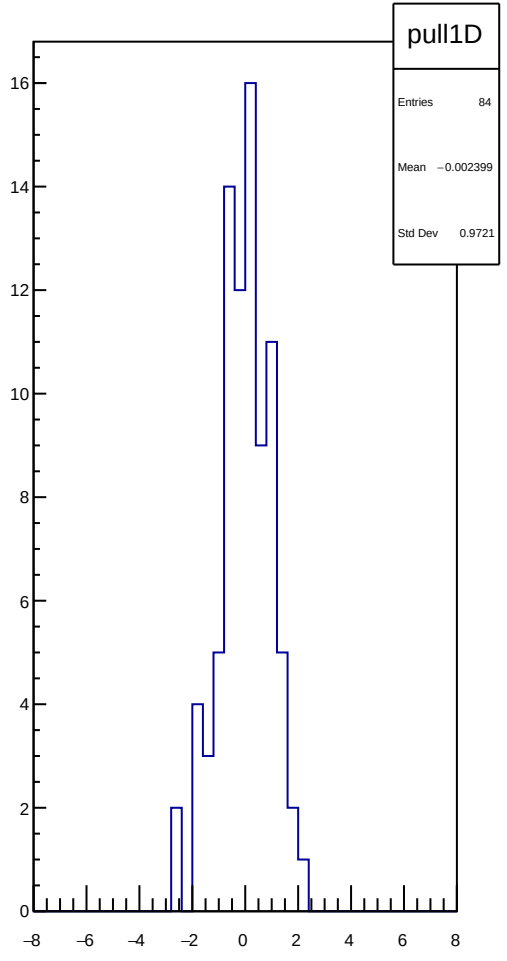

pull1D
Entries 84
Mean −0.001703
Std Dev 1.006

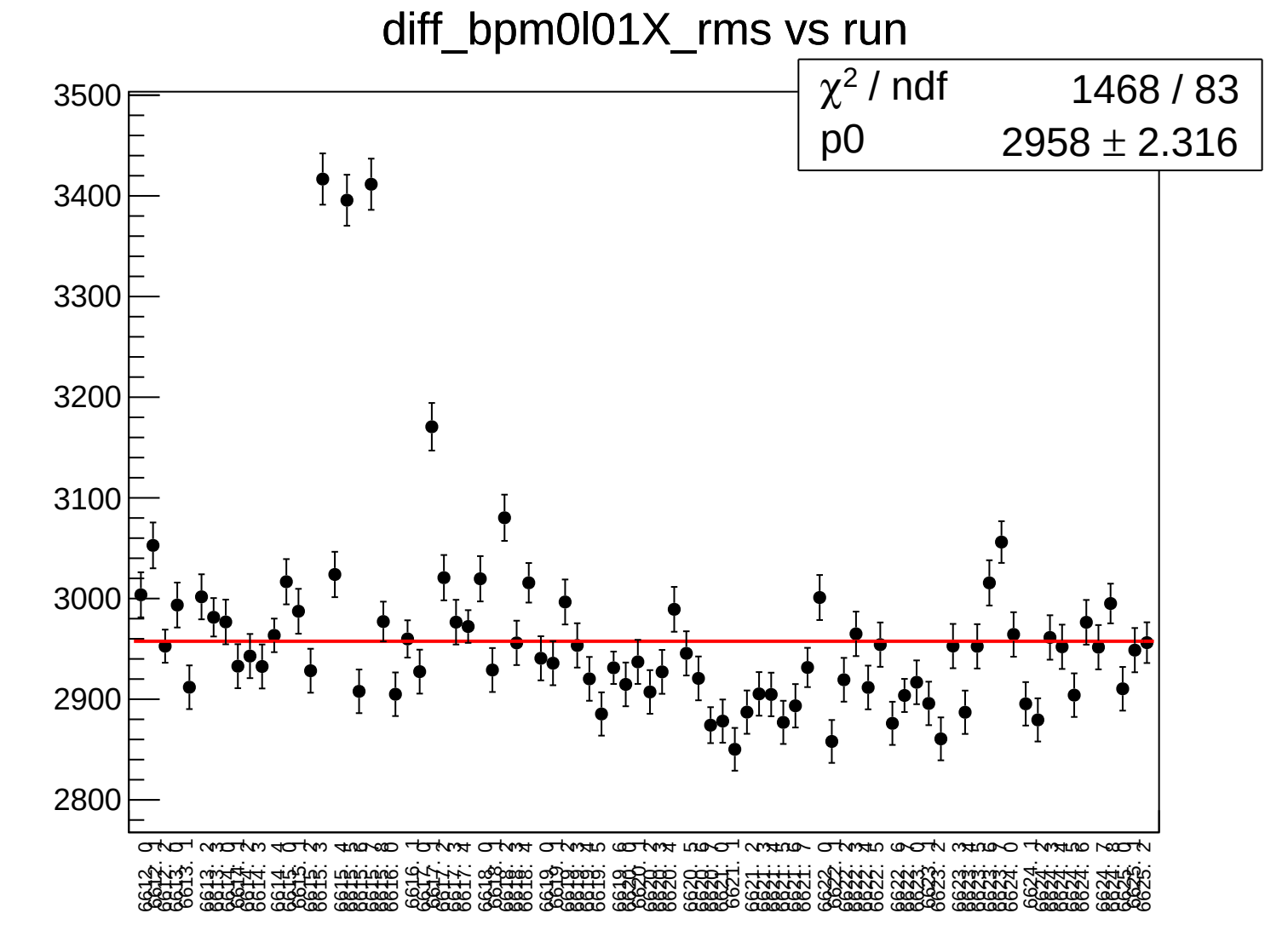

diff_bpm0i01aX_rms vs run
χ² / ndf 4159 / 83
p0 2052 ± 1.608
2400
2300
2200
2100
2000
1900
1800

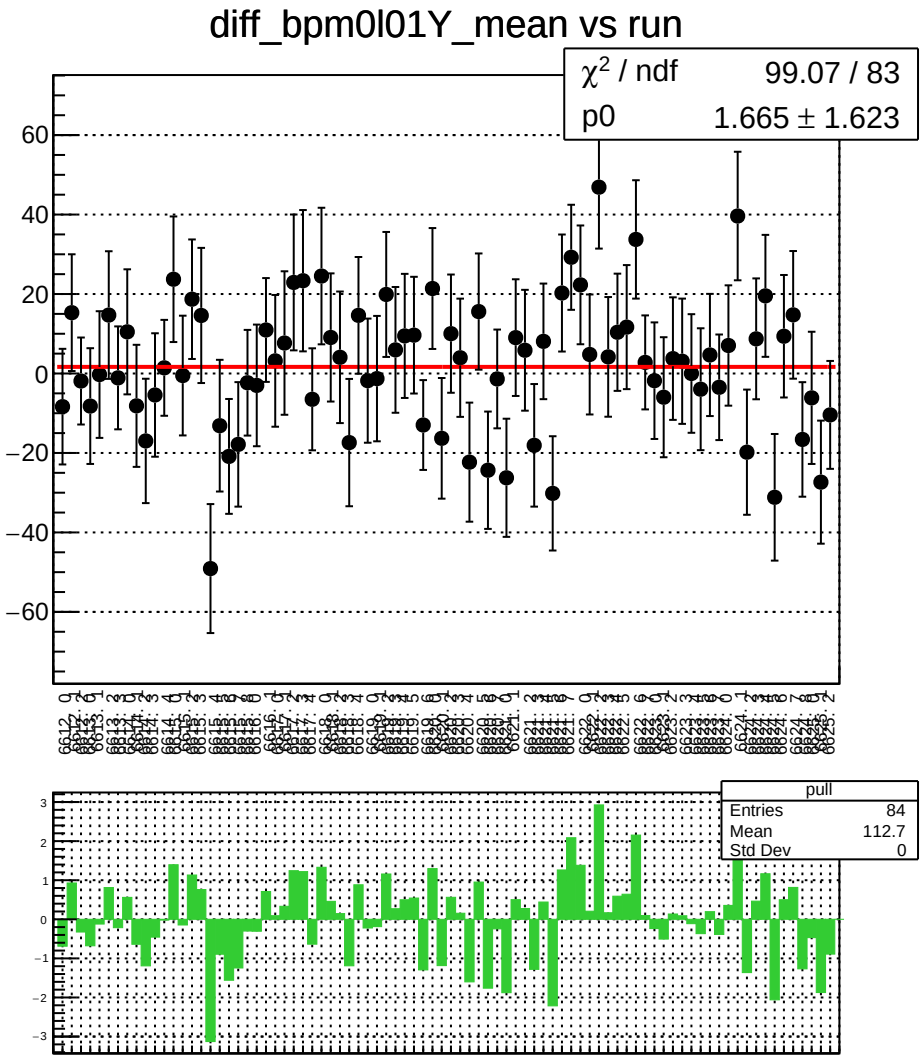

diff_bpm0i01aY_mean vs run
χ² / ndf 68.94 / 83
p0 11.3 ± 1.974
pull
Entries 84
Mean −467.3
Std Dev 0
pull1D
Entries 84
Mean 0.007841
Std Dev 0.9059

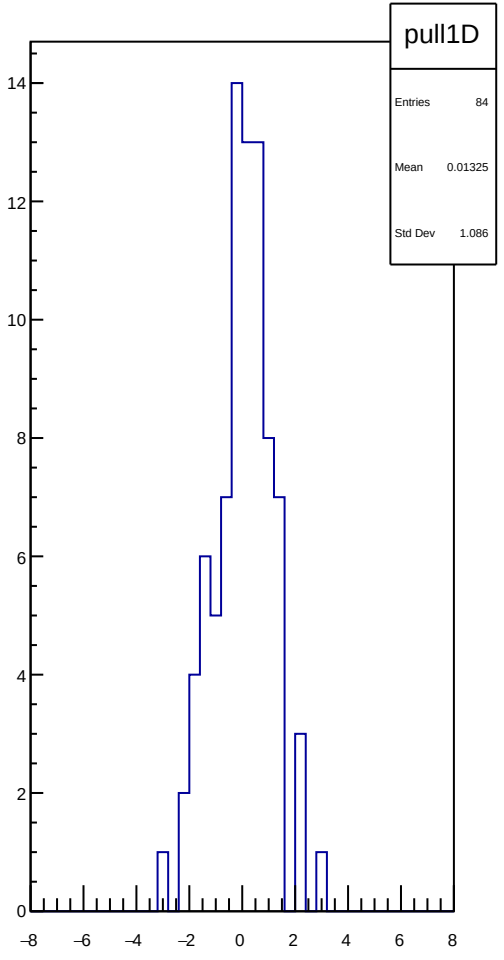

diff_bpm0i01aY_rms vs run
χ² / ndf 2089 / 83
p0 1782 ± 1.396
2000
1950
1900
1850
1800
1750
1700
1650
1600
1550

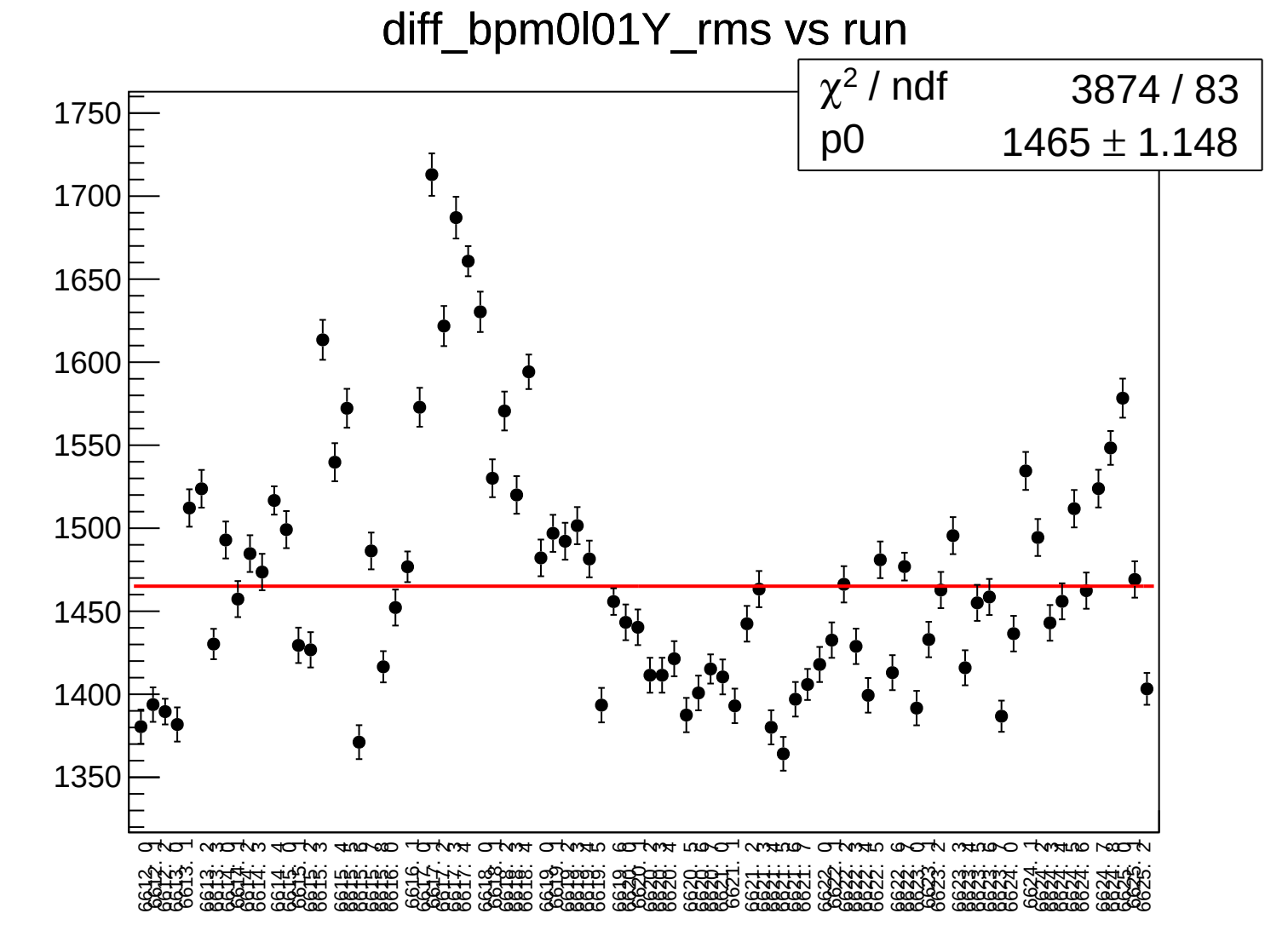

diff_bpm0l01X_mean vs run
χ² / ndf 79.38 / 83
p0 −13.34 ± 3.275
100
50
0
−50
−100
−150
pull
Entries 84
Mean −1754
Std Dev 0
2
1
0
−1
−2
−3

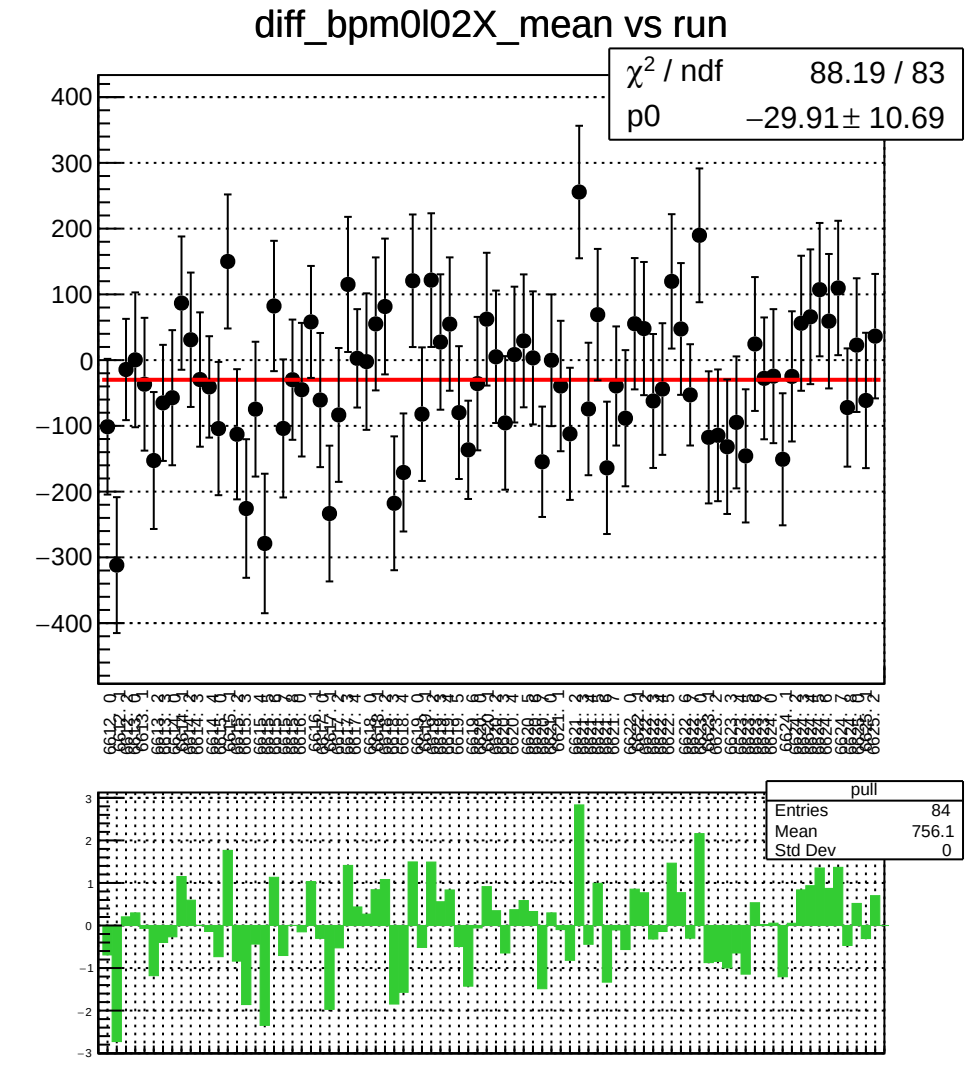

pull1D
Entries 84
Mean −0.002399
Std Dev 0.9721
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

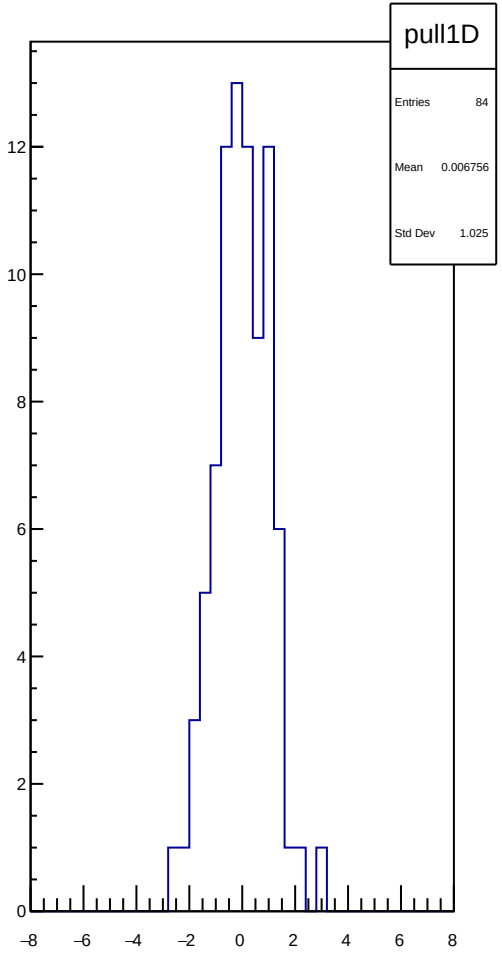

diff_bpm0l01X_rms vs run
χ² / ndf 1468 / 83
p0 2958 ± 2.316
3500
3400
3300
3200
3100
3000
2900
2800

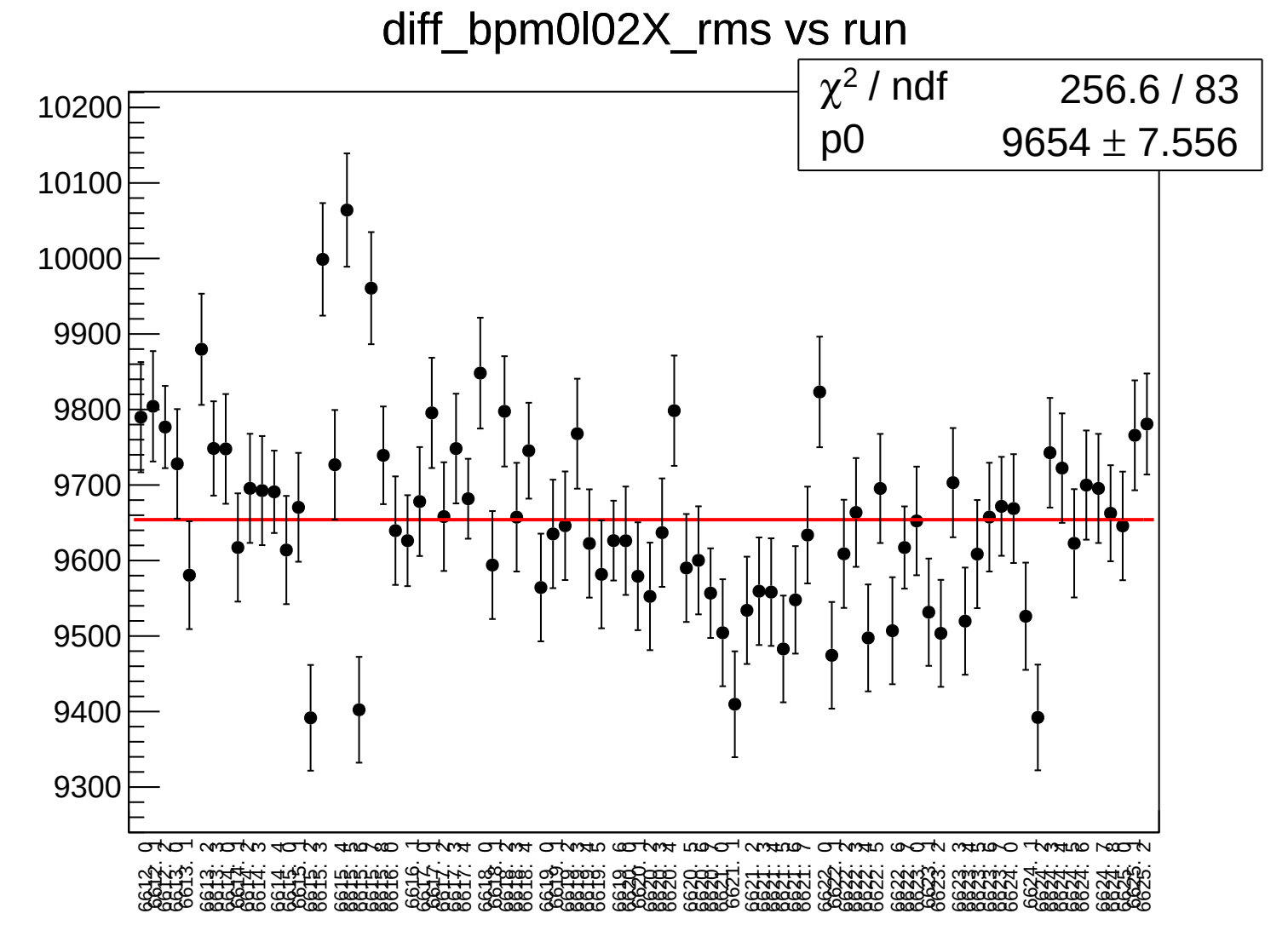

diff_bpm0l01Y_mean vs run
χ^2 / ndf 99.07 / 83
p0 1.665 ± 1.623
pull
Entries 84
Mean 112.7
Std Dev 0

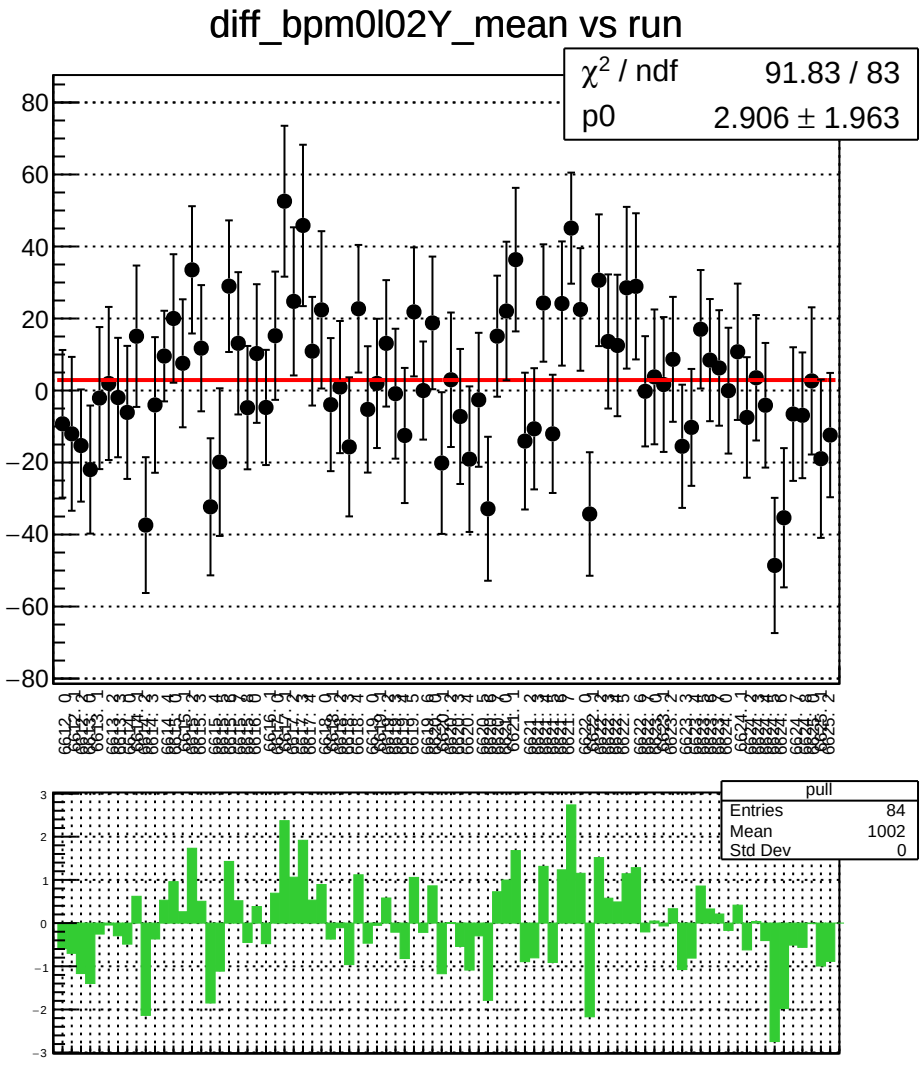

pull1D
Entries 84
Mean 0.01325
Std Dev 1.086

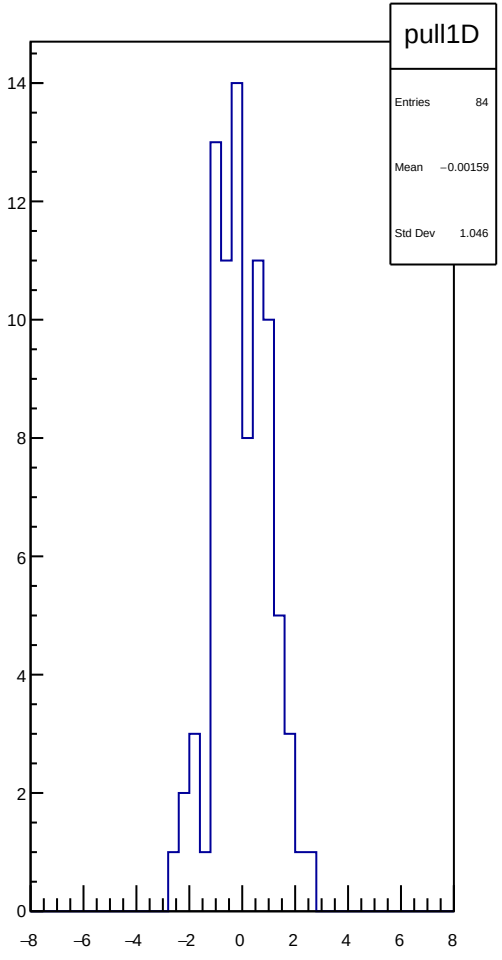

diff_bpm0l01Y_rms vs run
χ² / ndf 3874 / 83
p0 1465 ± 1.148
1750
1700
1650
1600
1550
1500
1450
1400
1350

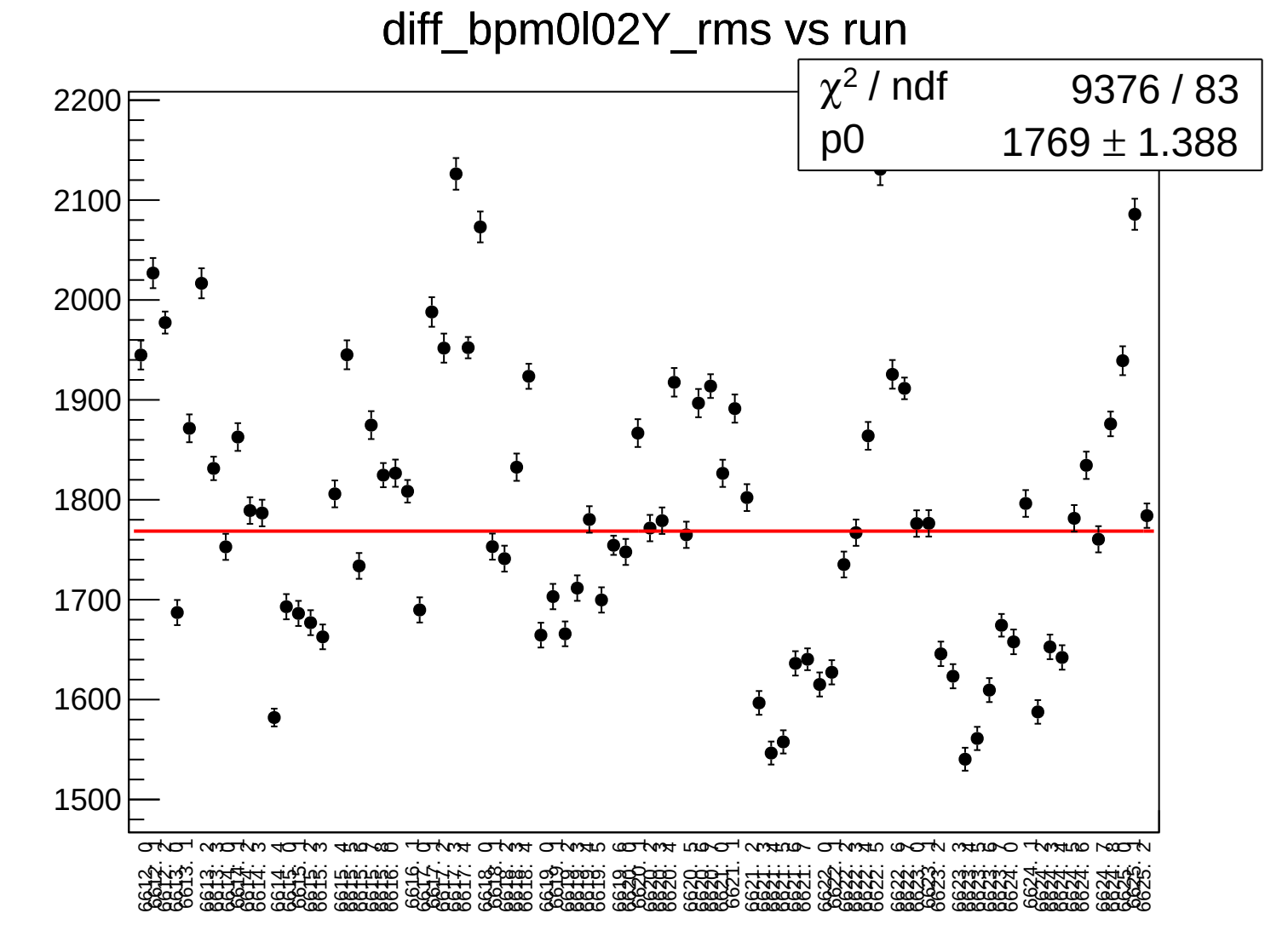

diff_bpm0l02X_mean vs run
χ² / ndf 88.19 / 83
p0 −29.91 ± 10.69
pull
Entries 84
Mean 756.1
Std Dev 0

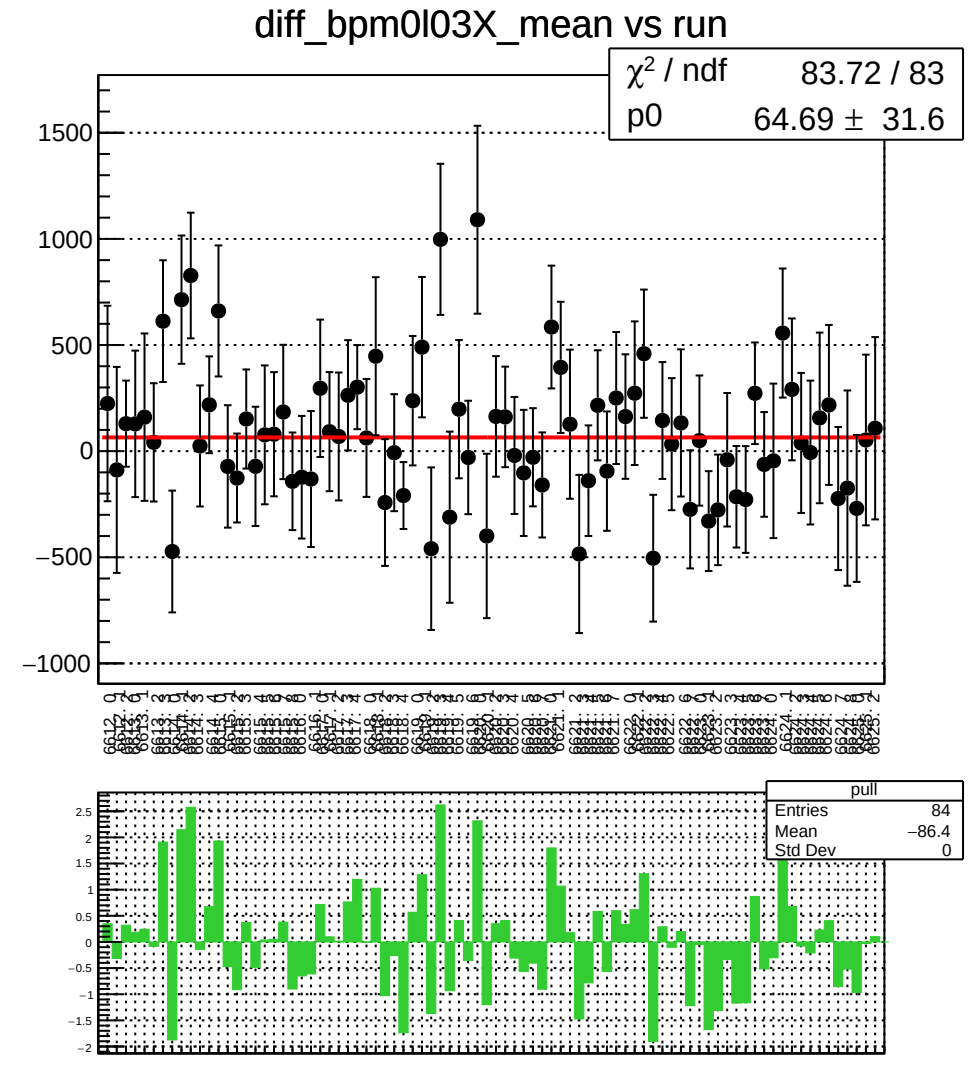

pull1D
Entries 84
Mean 0.006756
Std Dev 1.025

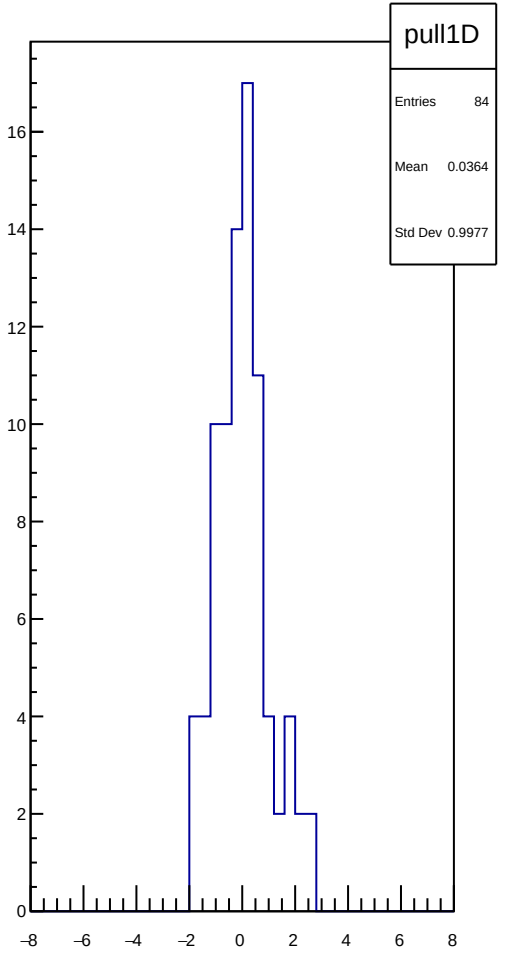

diff_bpm0l02X_rms vs run
χ^2 / ndf 256.6 / 83
p0 9654 ± 7.556
10200
10100
10000
9900
9800
9700
9600
9500
9400
9300


diff_bpm0l02Y_mean vs run
χ^2 / ndf 91.83 / 83
p0 2.906 ± 1.963
pull
Entries 84
Mean 1002
Std Dev 0

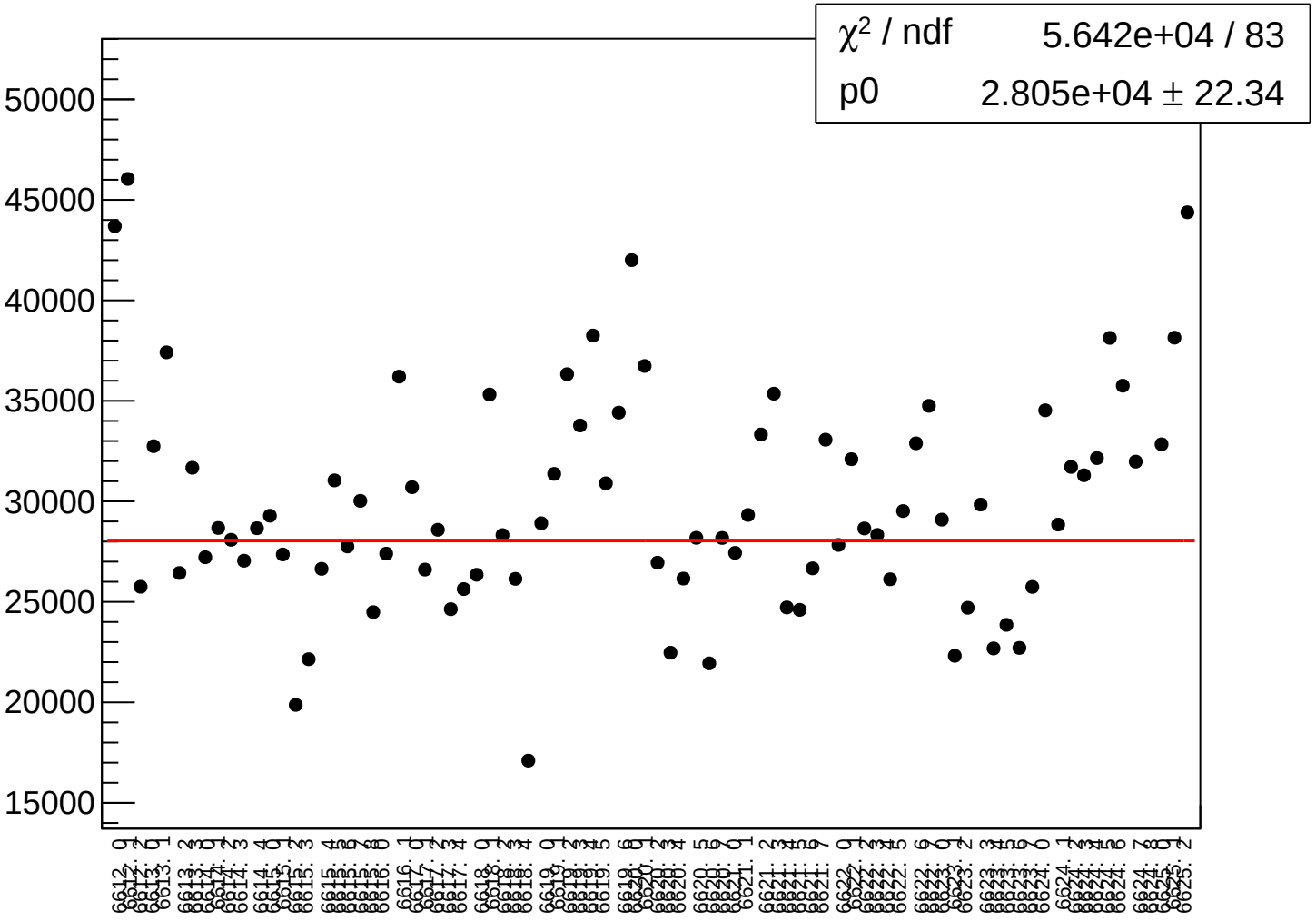

pull1D
Entries 84
Mean −0.00159
Std Dev 1.046

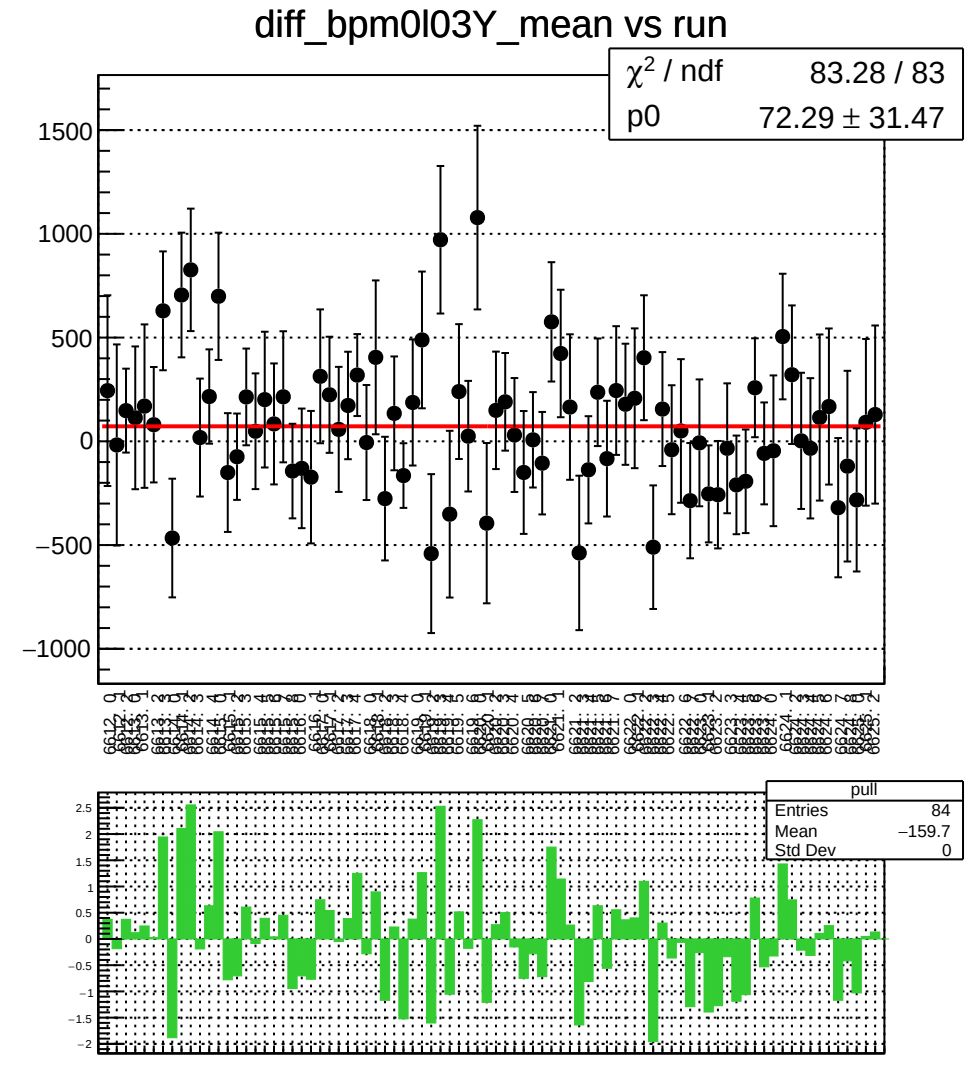

diff_bpm0l02Y_rms vs run
χ² / ndf 9376 / 83
p0 1769 ± 1.388
2200
2100
2000
1900
1800
1700
1600
1500

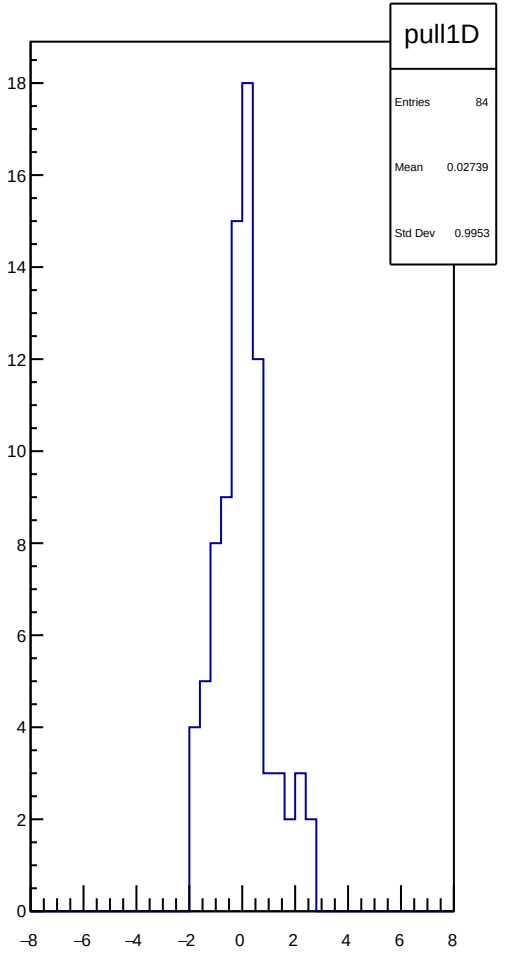

diff_bpm0l03X_mean vs run
χ² / ndf 83.72 / 83
p0 64.69 ± 31.6
pull
Entries 84
Mean −86.4
Std Dev 0

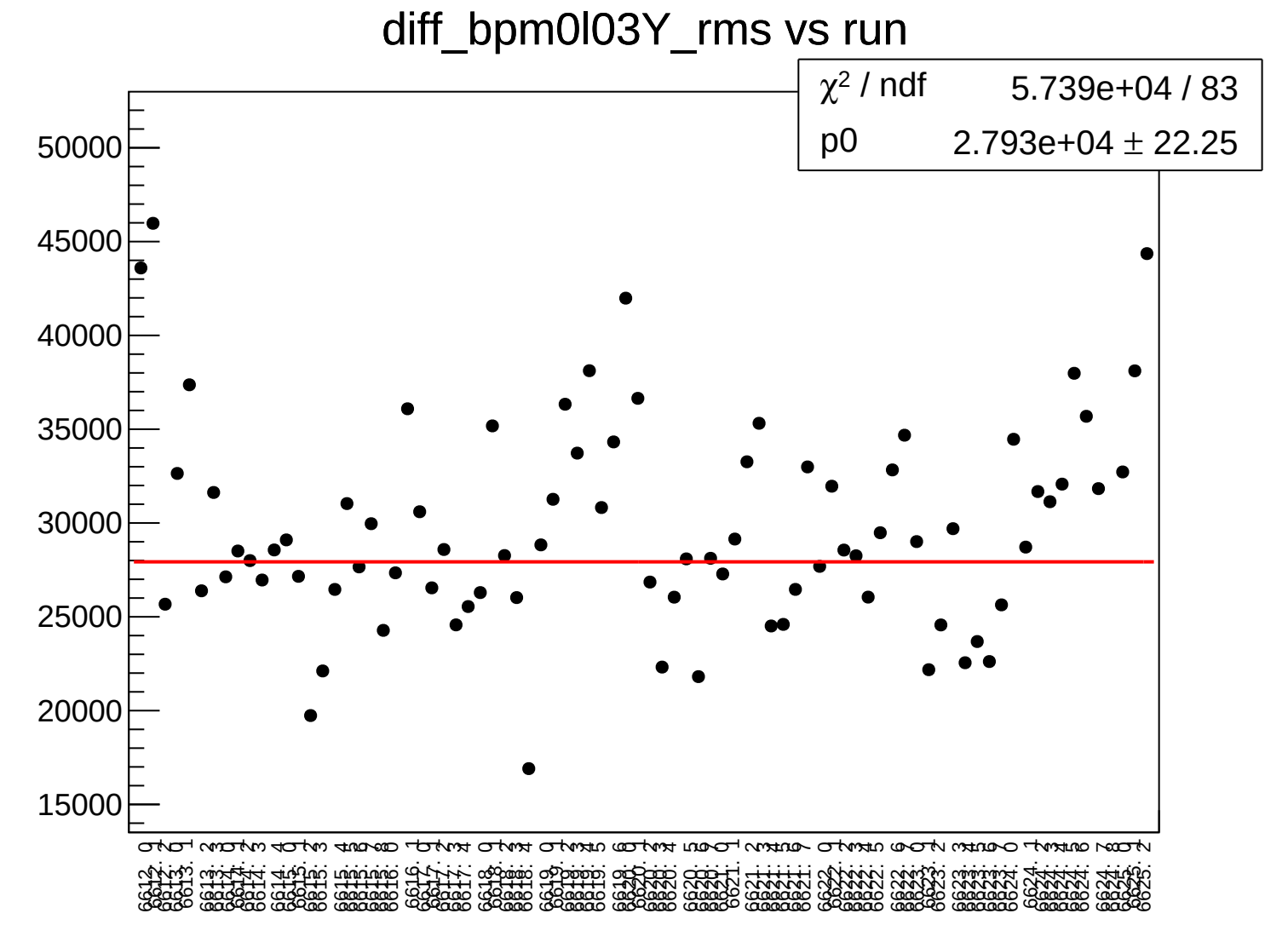

pull1D
Entries 84
Mean 0.0364
Std Dev 0.9977

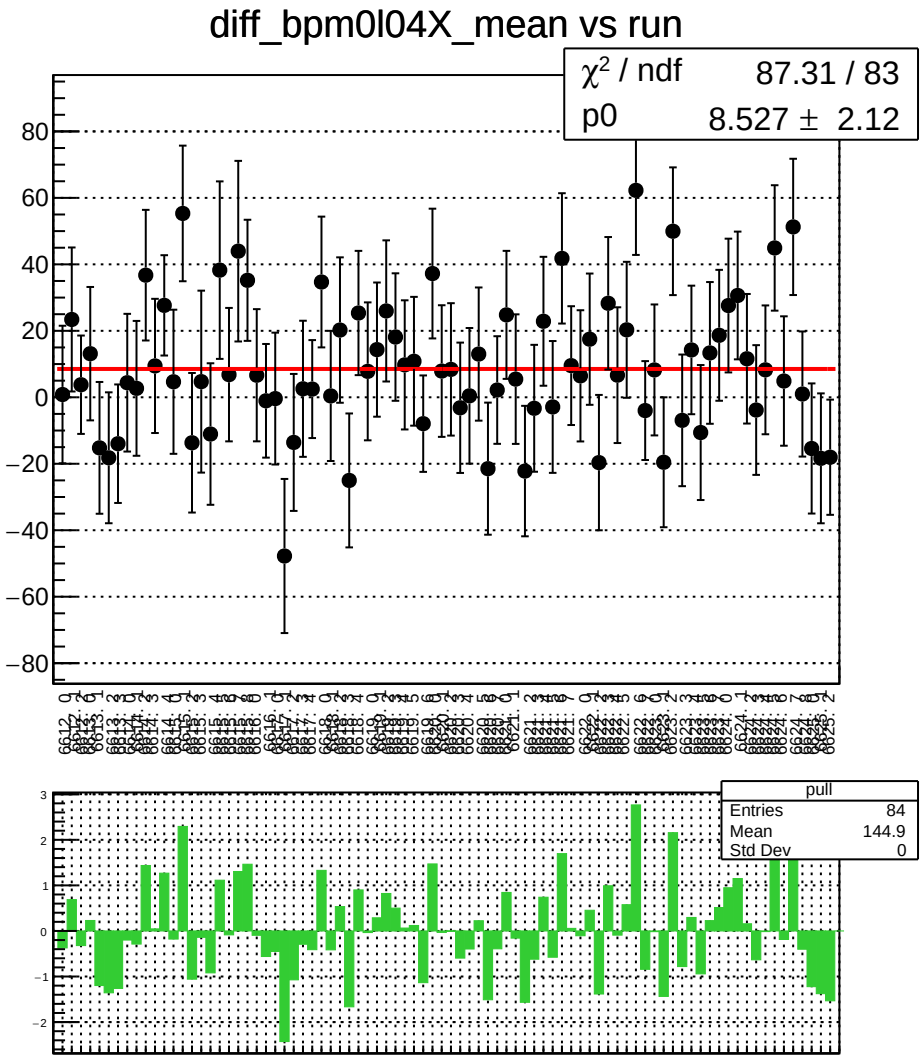
diff_bpm0l03X_rms vs run

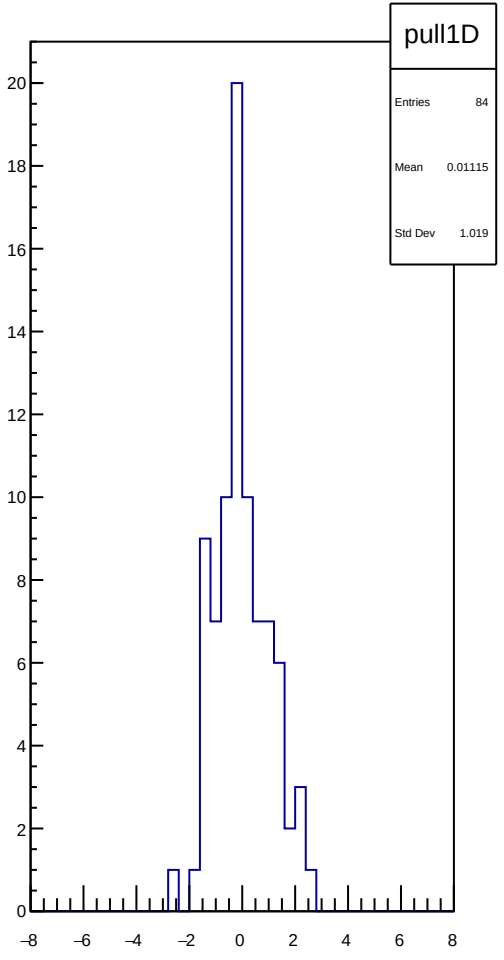


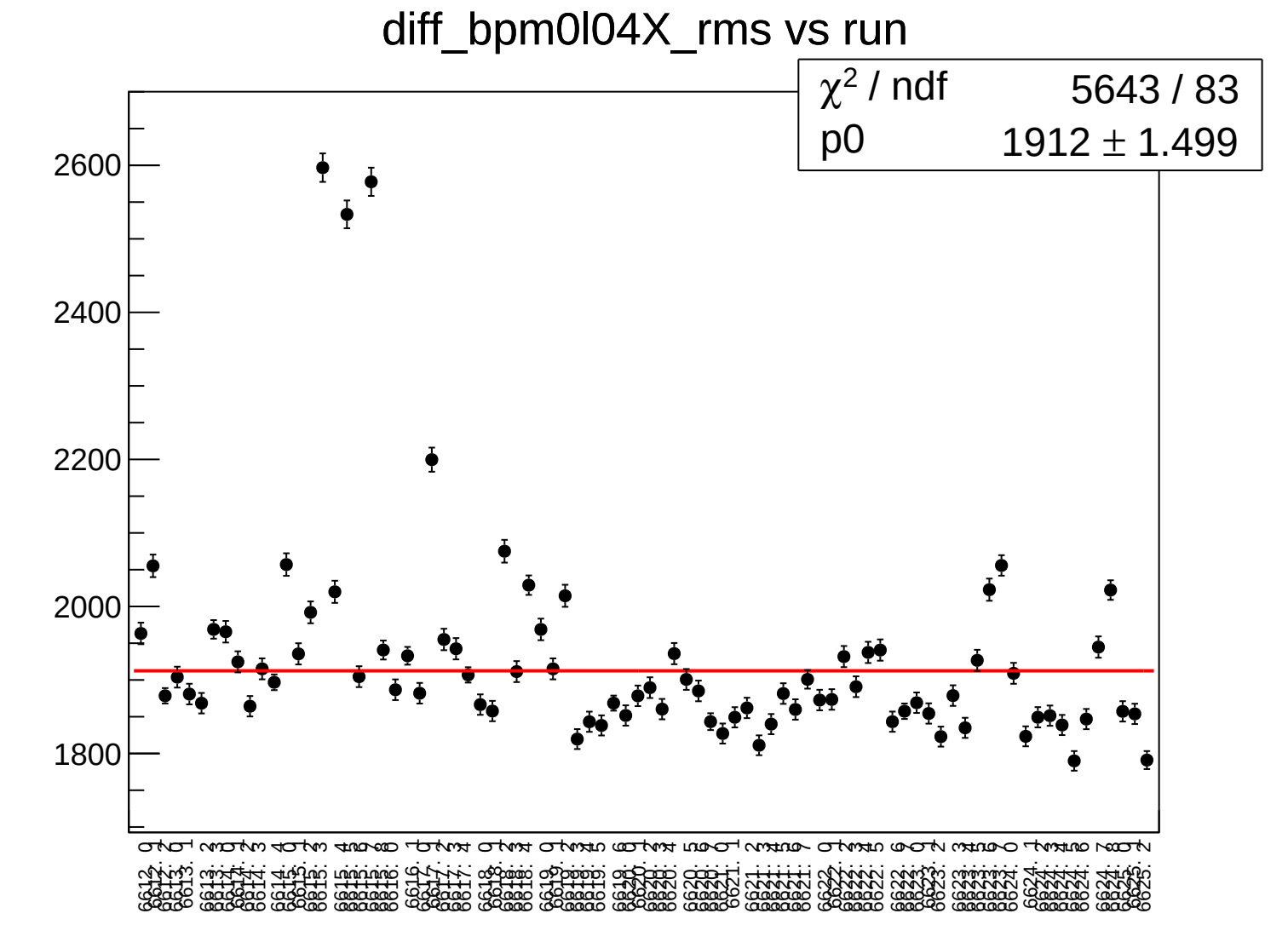

diff_bpm0l03Y_mean vs run
χ² / ndf 83.28 / 83
p0 72.29 ± 31.47
pull
Entries 84
Mean −159.7
Std Dev 0

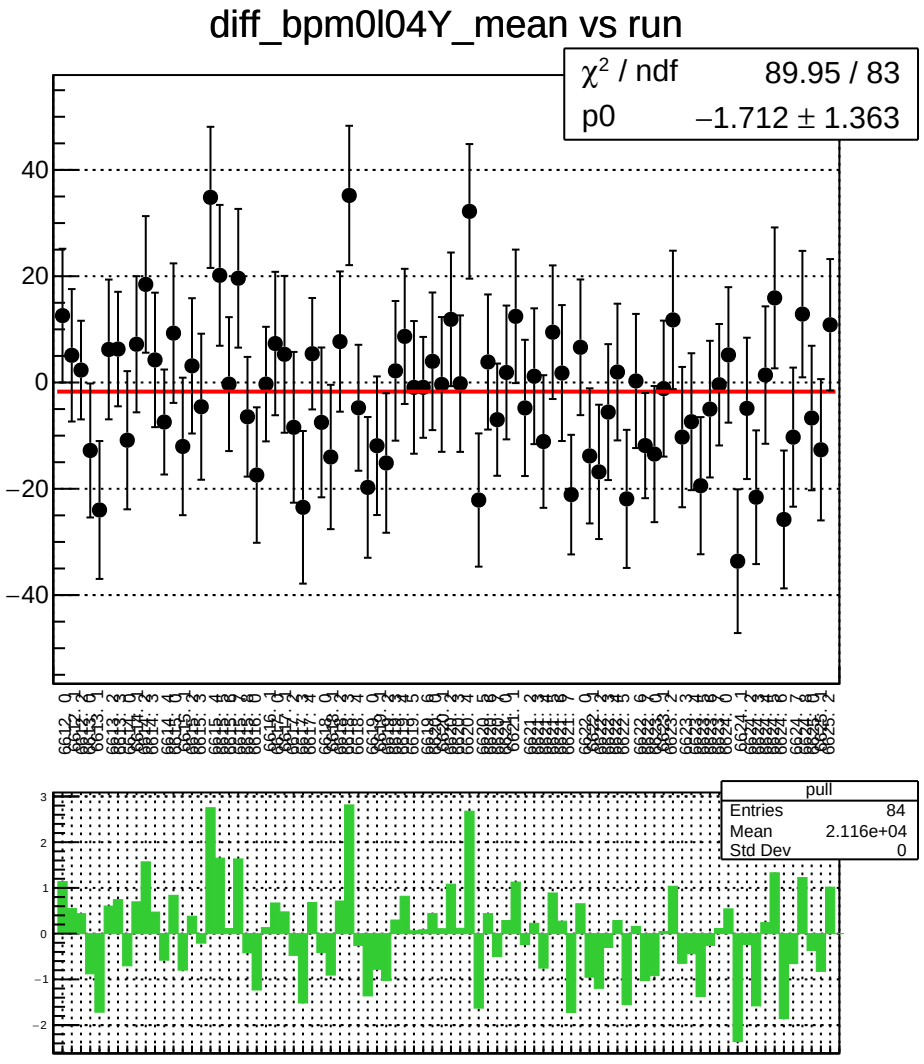

pull1D
Entries 84
Mean 0.02739
Std Dev 0.9953

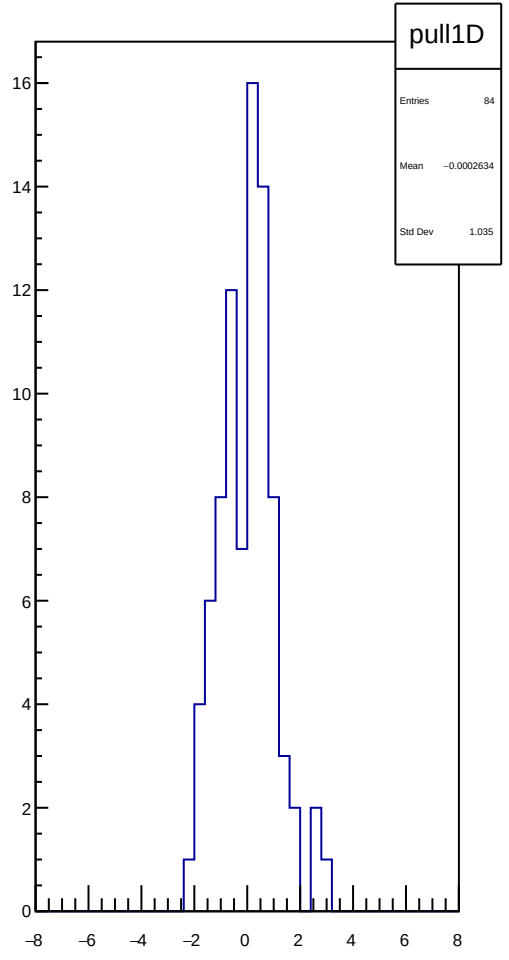

diff_bpm0l03Y_rms vs run
χ² / ndf 5.739e+04 / 83
p0 2.793e+04 ± 22.25
50000
45000
40000
35000
30000
25000
20000
15000

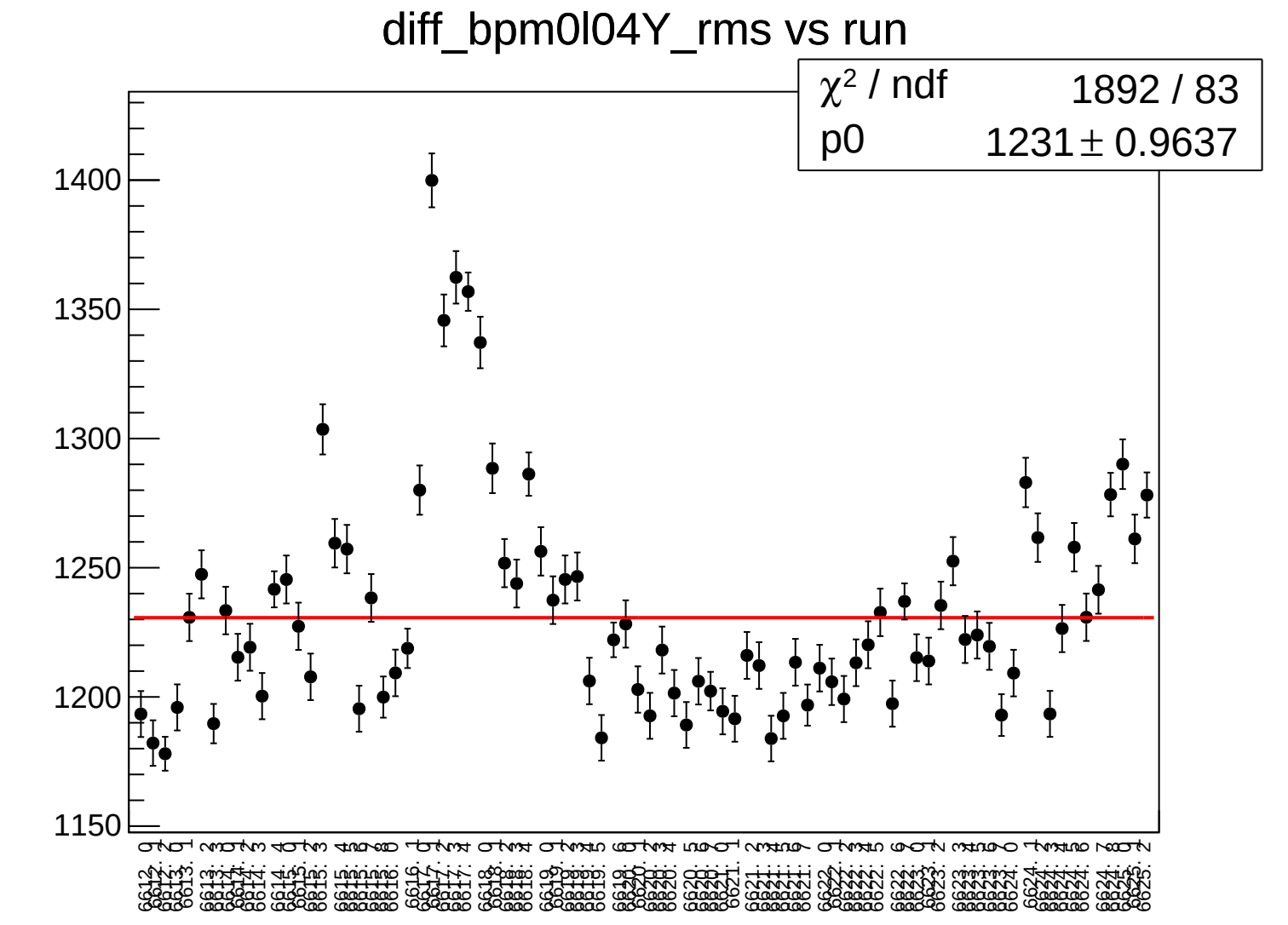

diff_bpm0l04X_mean vs run
χ² / ndf 87.31 / 83
p0 8.527 ± 2.12
pull
Entries 84
Mean 144.9
Std Dev 0

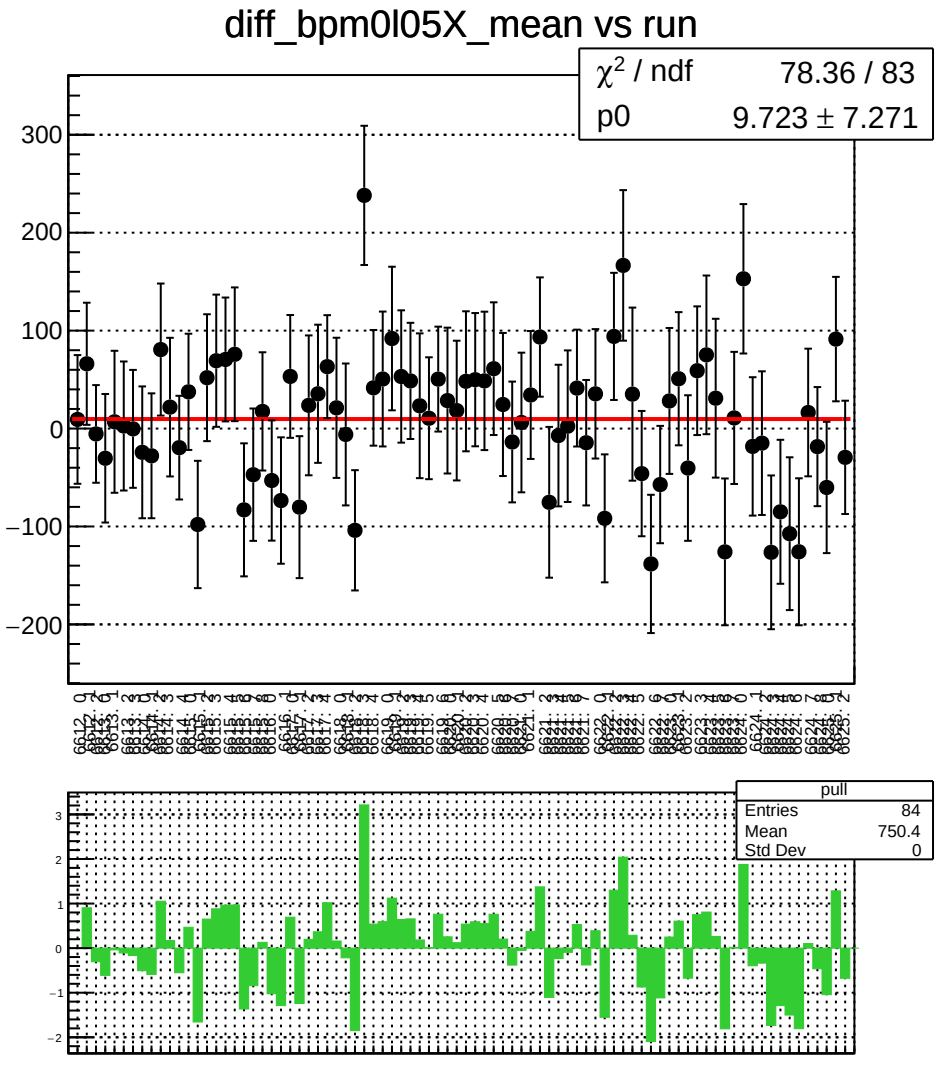

pull1D
Entries 84
Mean 0.01115
Std Dev 1.019

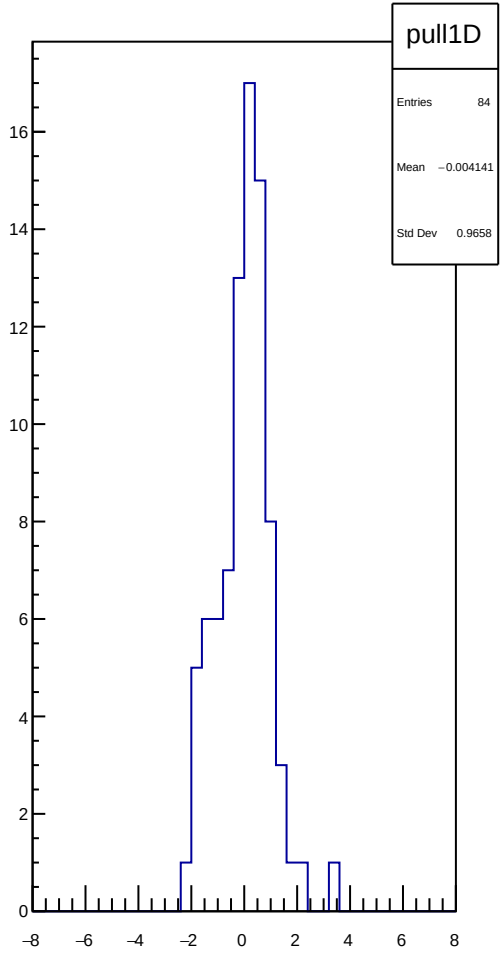

diff_bpm0l04X_rms vs run
χ² / ndf 5643 / 83
p0 1912 ± 1.499
2600
2400
2200
2000
1800

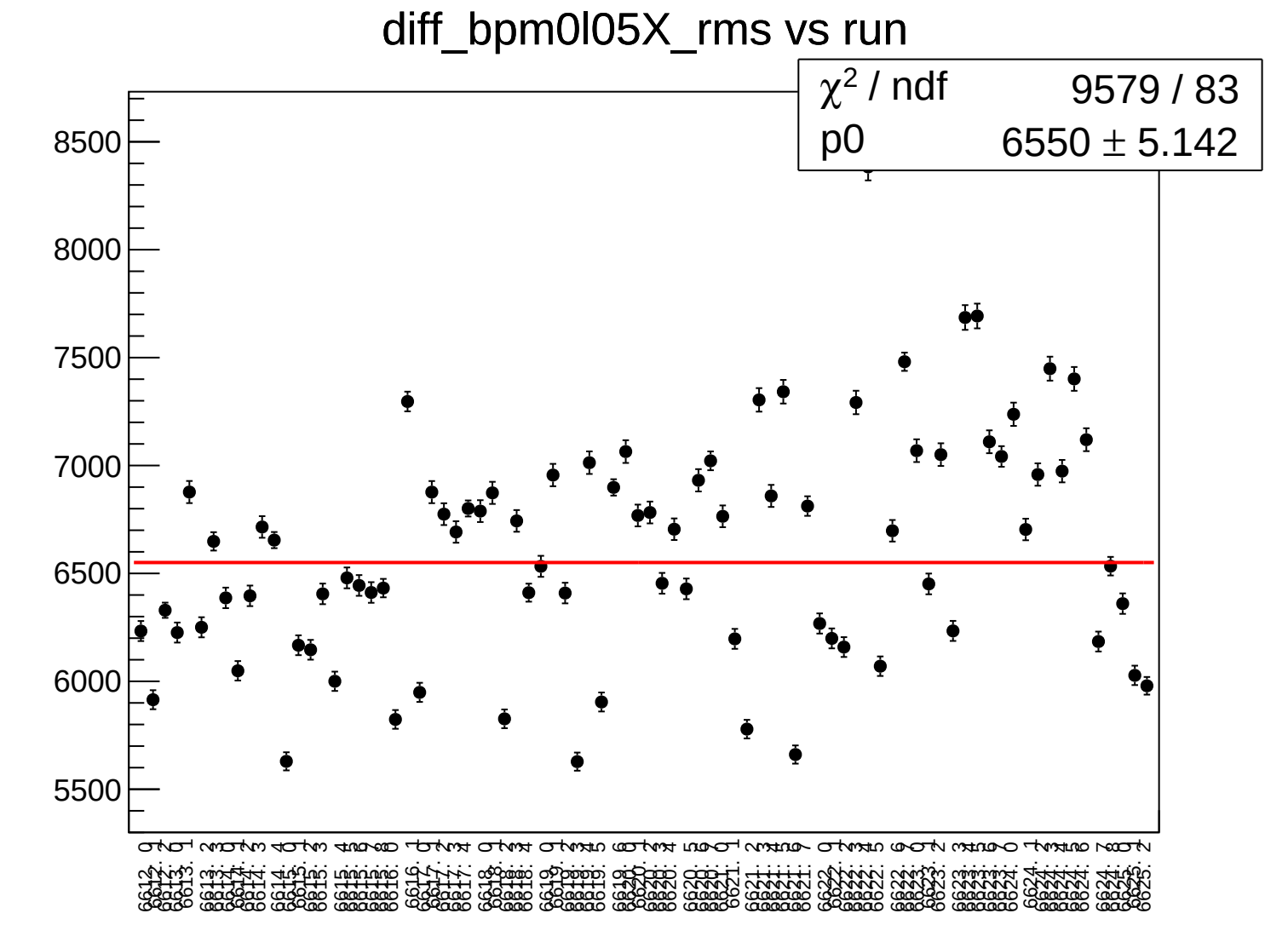

diff_bpm0l04Y_mean vs run
χ² / ndf 89.95 / 83
p0 −1.712 ± 1.363
pull
Entries 84
Mean 2.116e+04
Std Dev 0

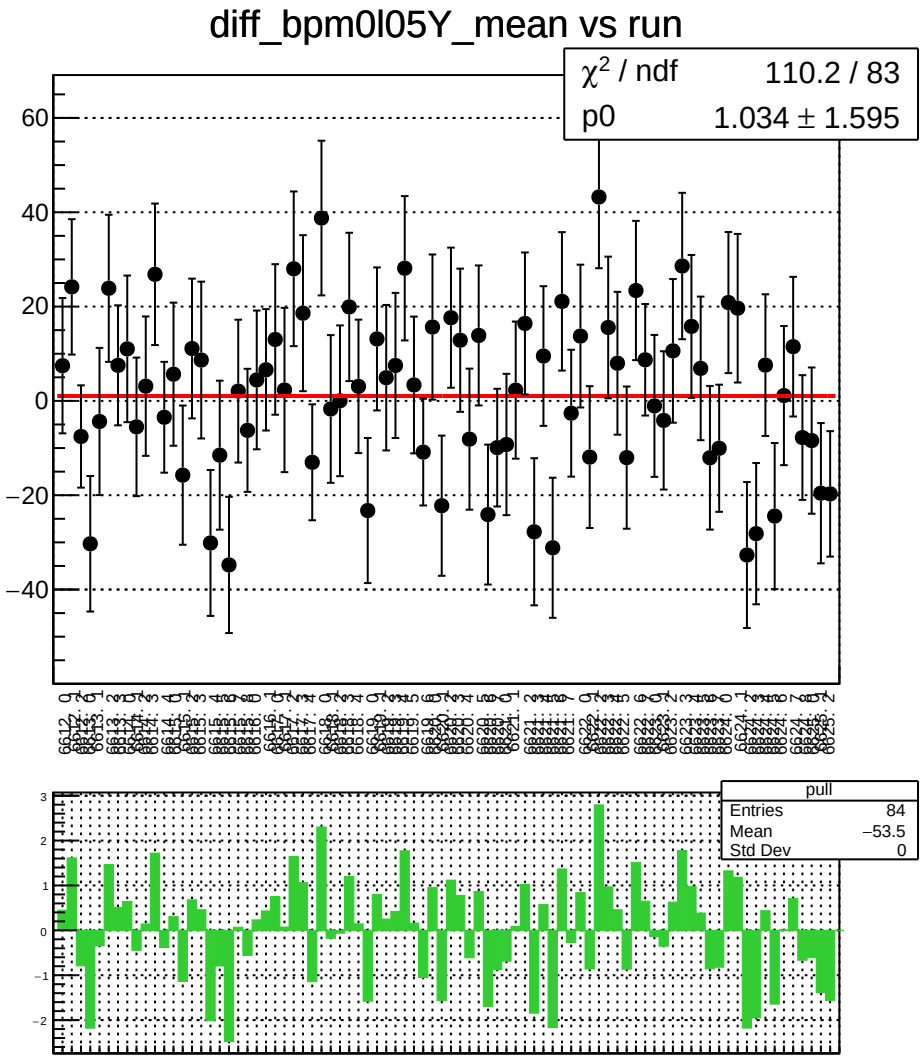

pull1D
Entries 84
Mean −0.0002634
Std Dev 1.035

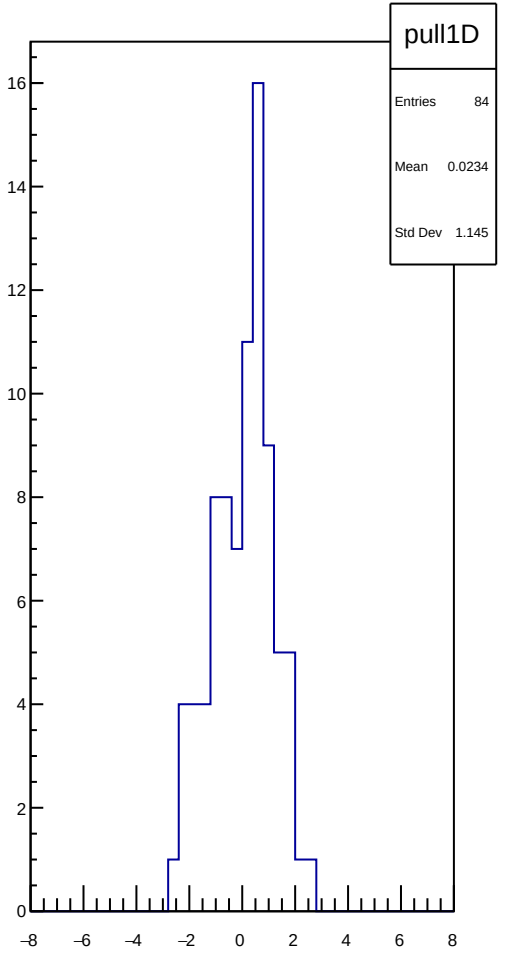

diff_bpm0l04Y_rms vs run
χ² / ndf 1892 / 83
p0 1231 ± 0.9637
1400
1350
1300
1250
1200
1150

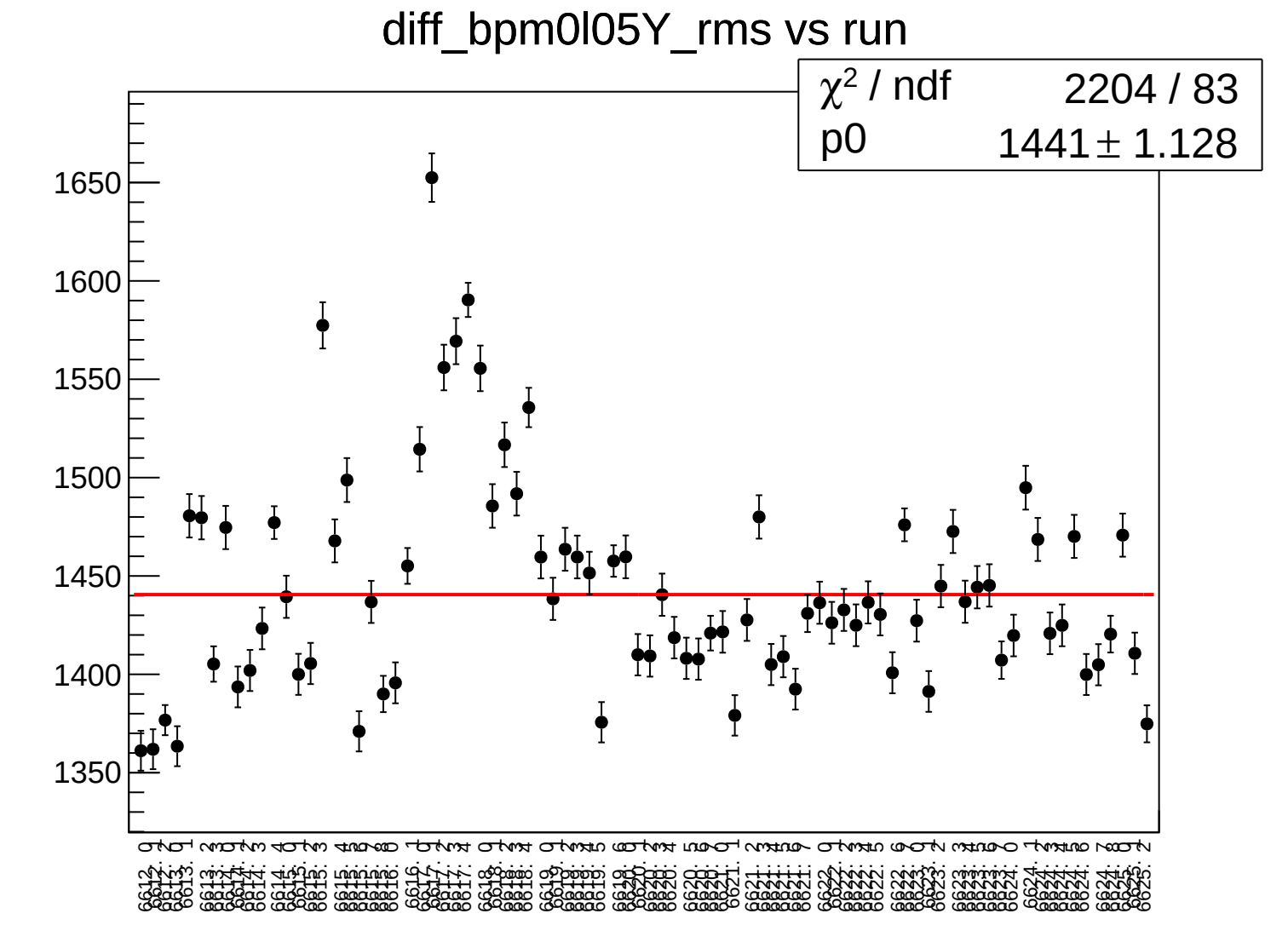

diff_bpm0l05X_mean vs run
χ² / ndf 78.36 / 83
p0 9.723 ± 7.271
300
200
100
0
−100
−200
pull
Entries 84
Mean 750.4
Std Dev 0
3
2
1
0
−1
−2

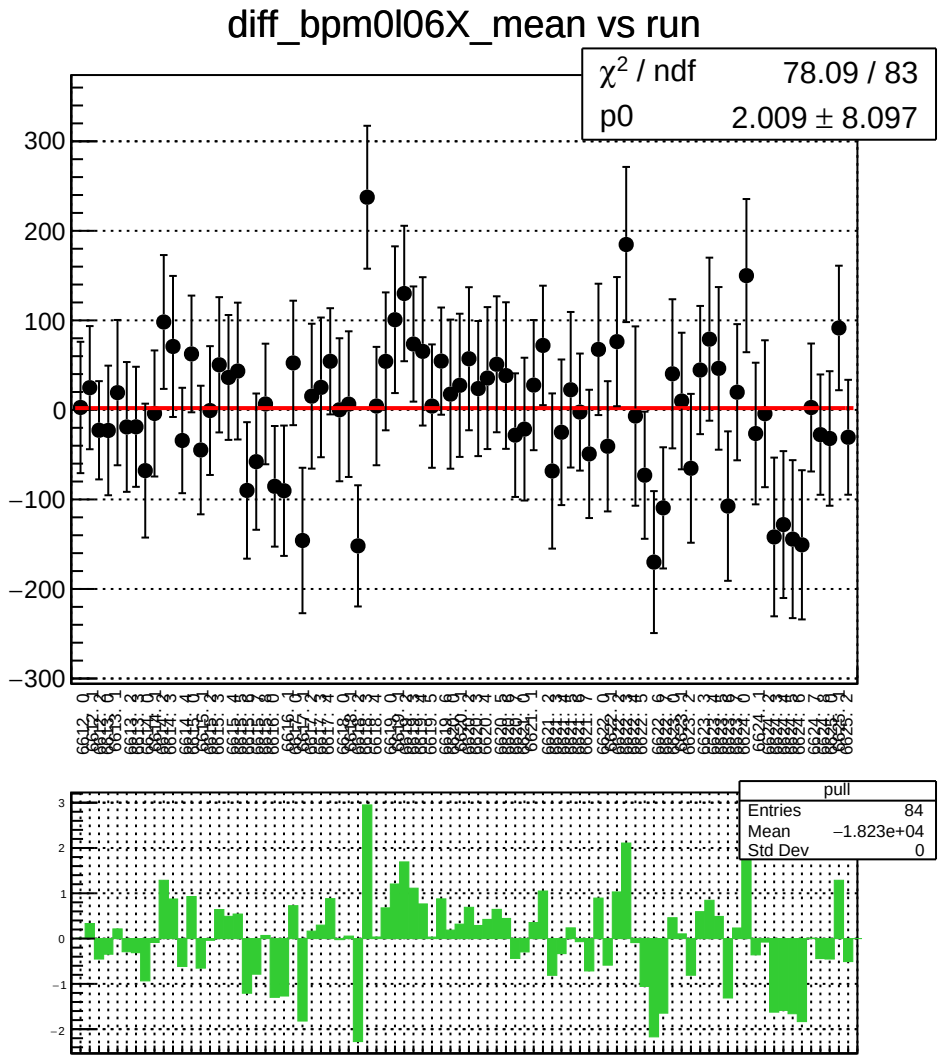

pull1D
Entries 84
Mean −0.004141
Std Dev 0.9658
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

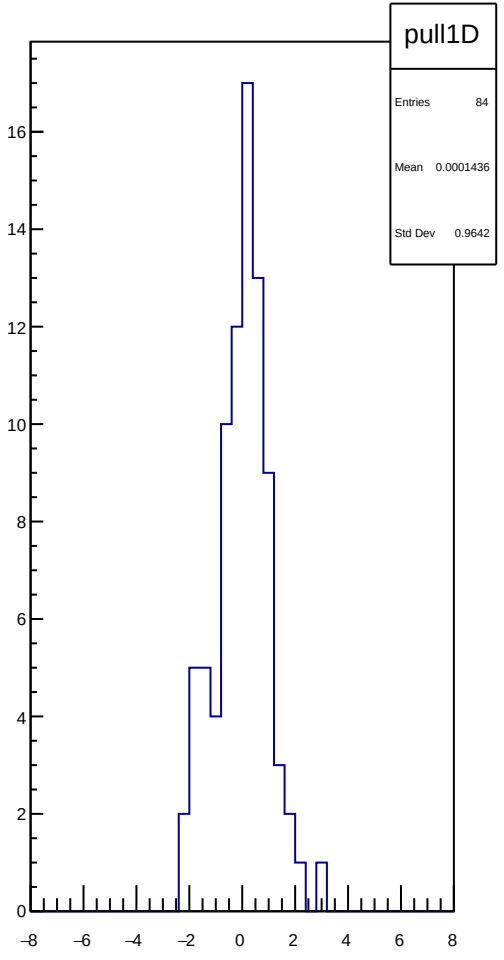

diff_bpm0l05X_rms vs run
χ² / ndf 9579 / 83
p0 6550 ± 5.142
8500
8000
7500
7000
6500
6000
5500

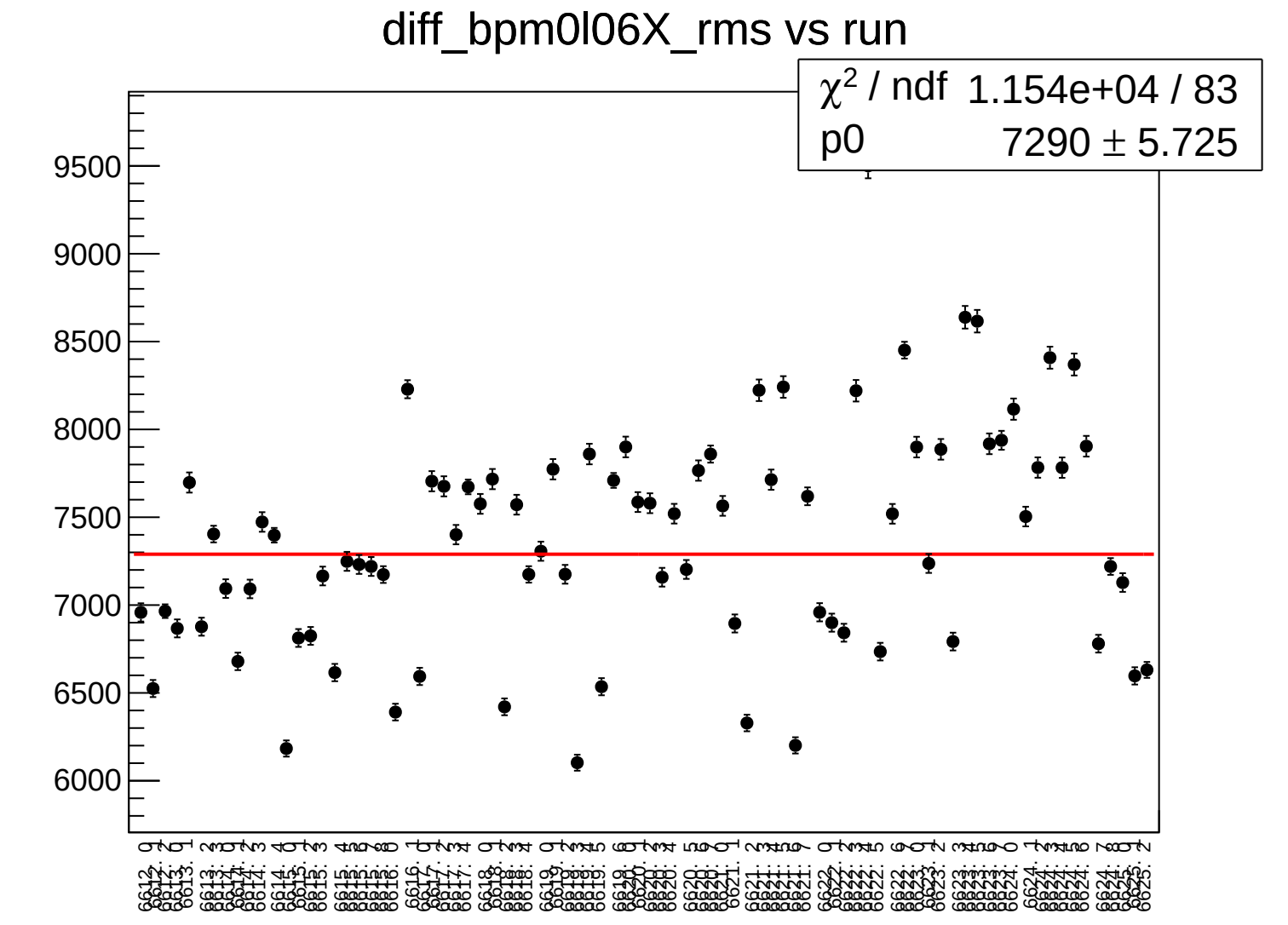

diff_bpm0l05Y_mean vs run
χ^2 / ndf 110.2 / 83
p0 1.034 ± 1.595
pull
Entries 84
Mean −53.5
Std Dev 0

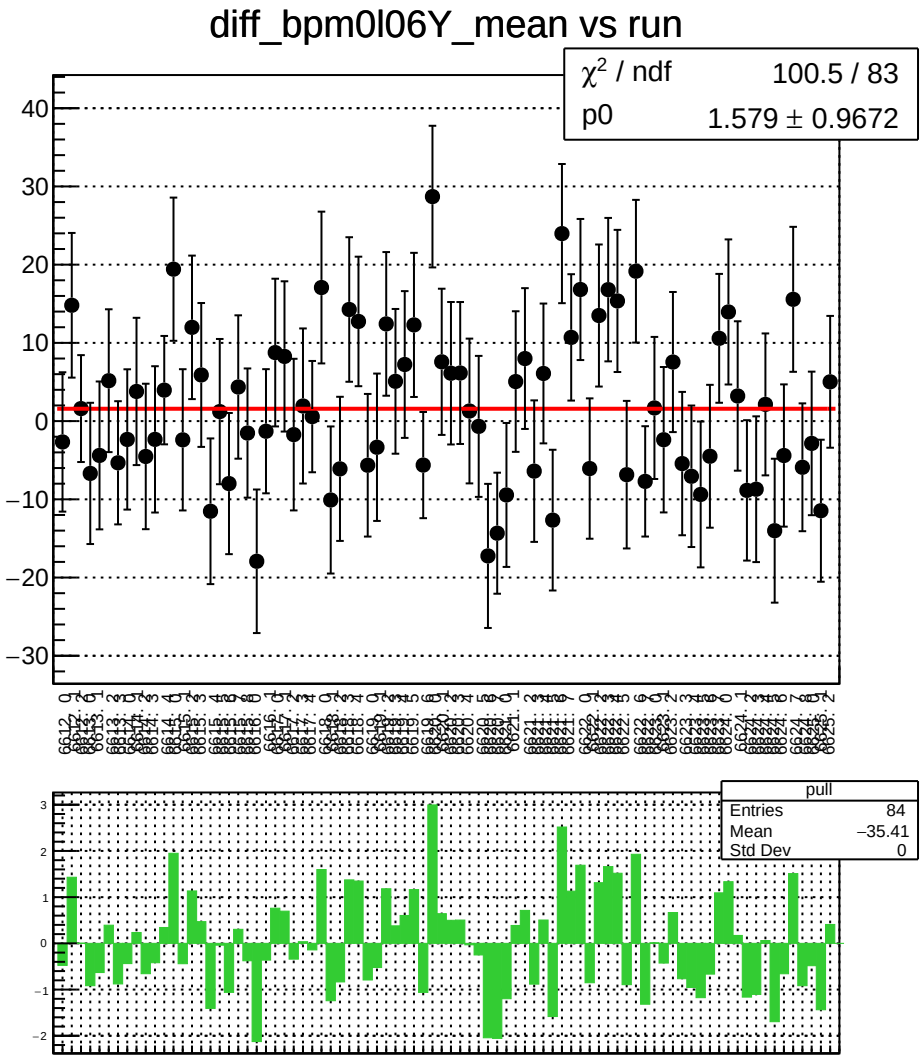

pull1D
Entries 84
Mean 0.0234
Std Dev 1.145

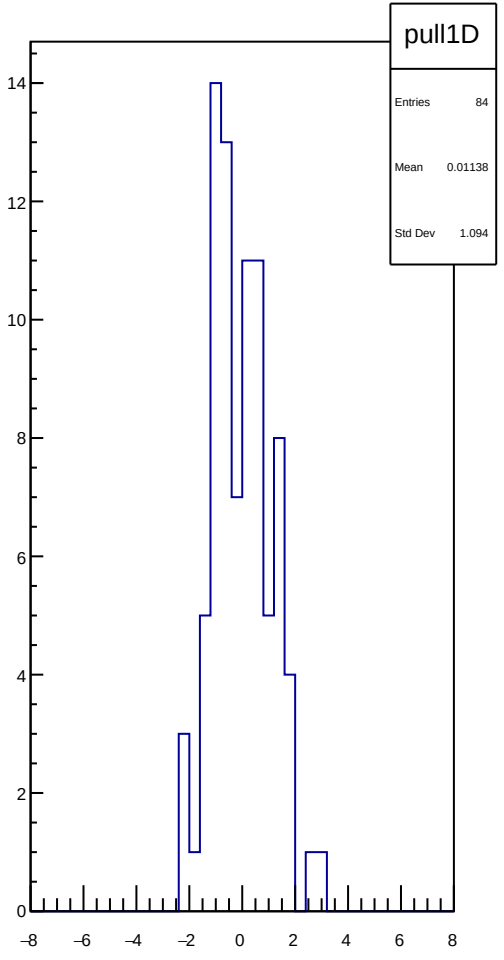

diff_bpm0l05Y_rms vs run
χ² / ndf 2204 / 83
p0 1441 ± 1.128
1650
1600
1550
1500
1450
1400
1350

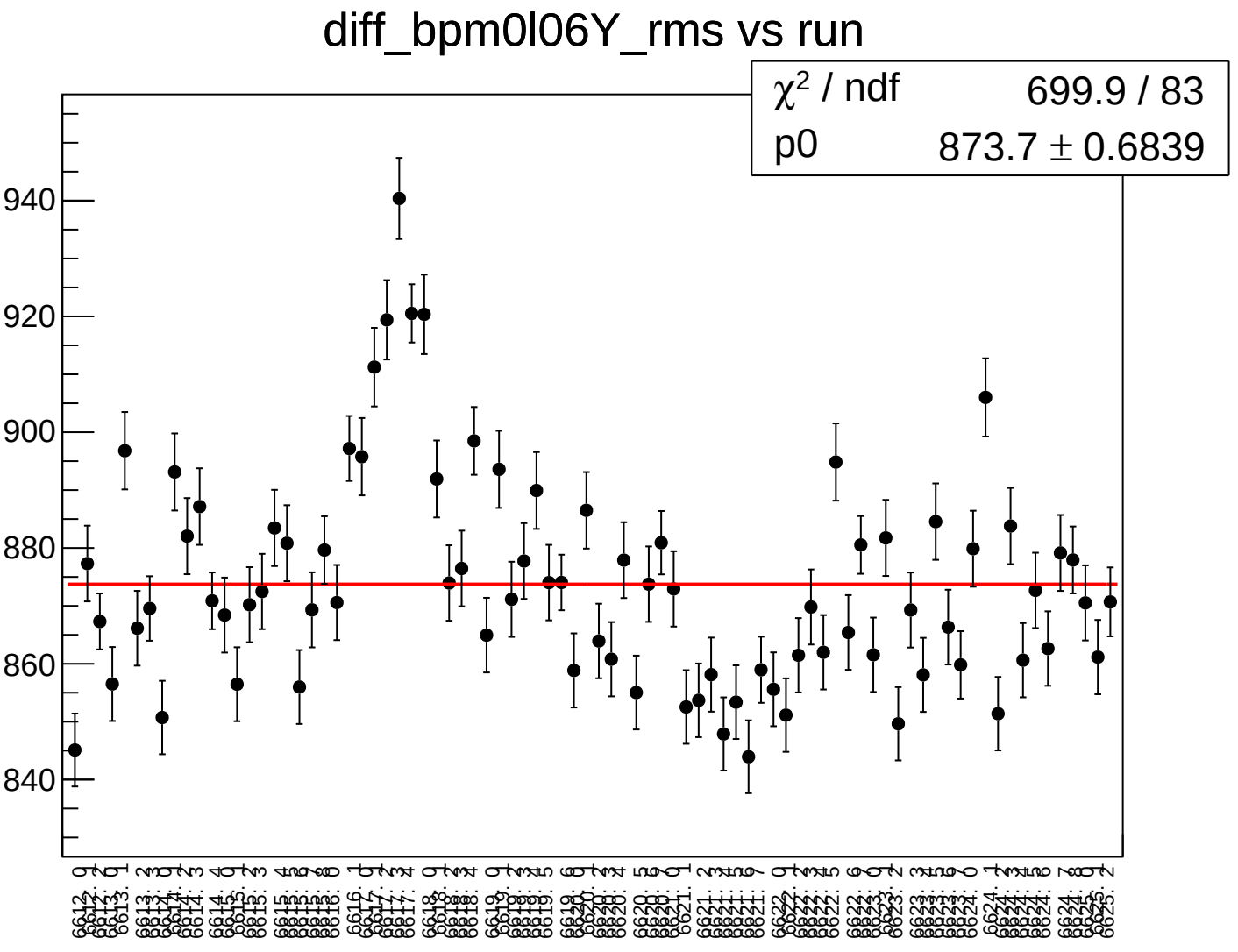

diff_bpm0l06X_mean vs run
χ² / ndf 78.09 / 83
p0 2.009 ± 8.097
pull
Entries 84
Mean −1.823e+04
Std Dev 0

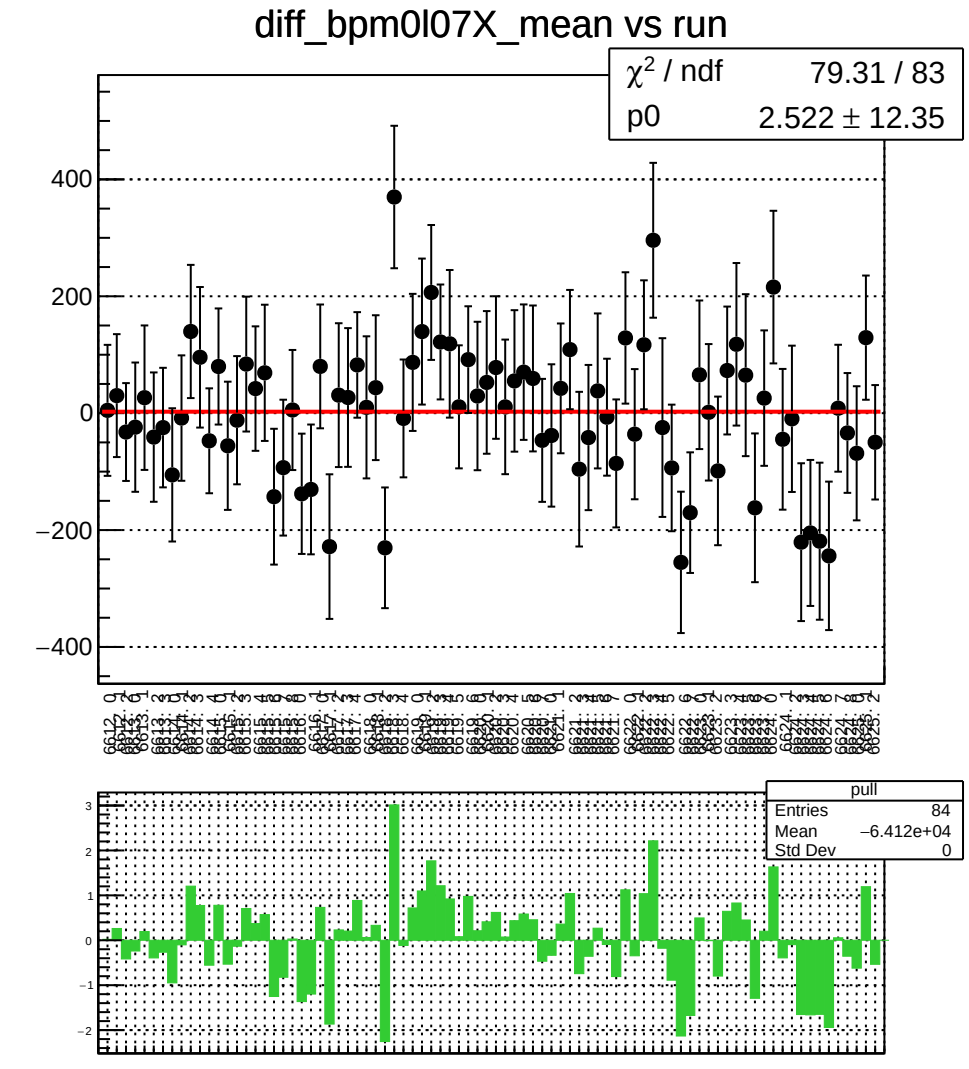

pull1D
Entries 84
Mean 0.0001436
Std Dev 0.9642

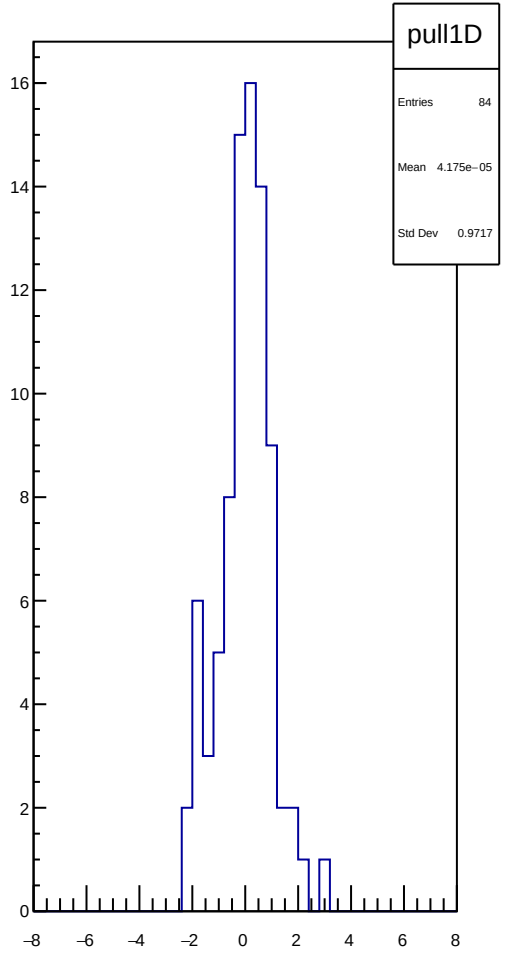

diff_bpm0l06X_rms vs run
χ² / ndf 1.154e+04 / 83
p0 7290 ± 5.725
9500
9000
8500
8000
7500
7000
6500
6000

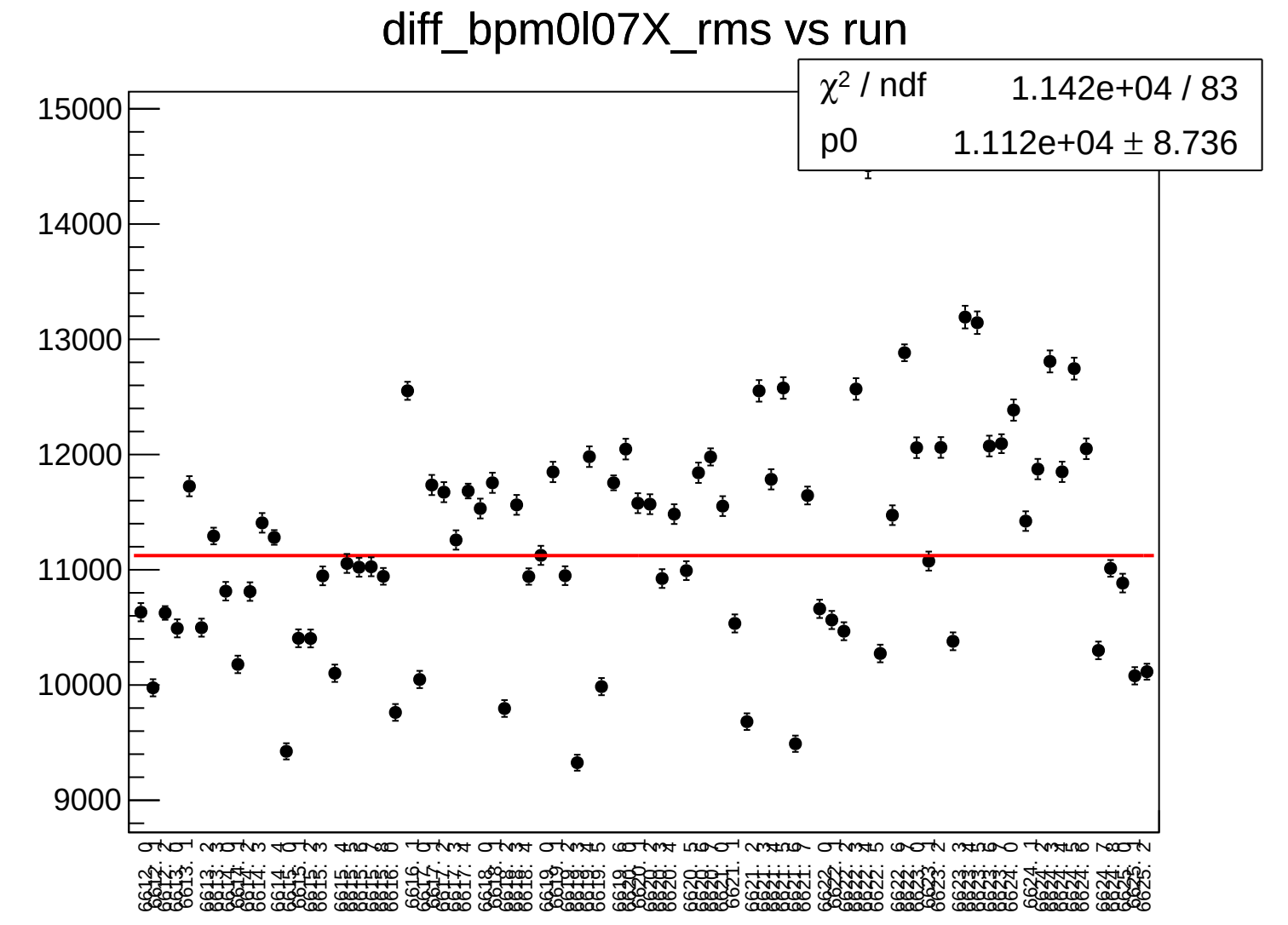

diff_bpm0l06Y_mean vs run
χ² / ndf 100.5 / 83
p0 1.579 ± 0.9672
pull
Entries 84
Mean −35.41
Std Dev 0

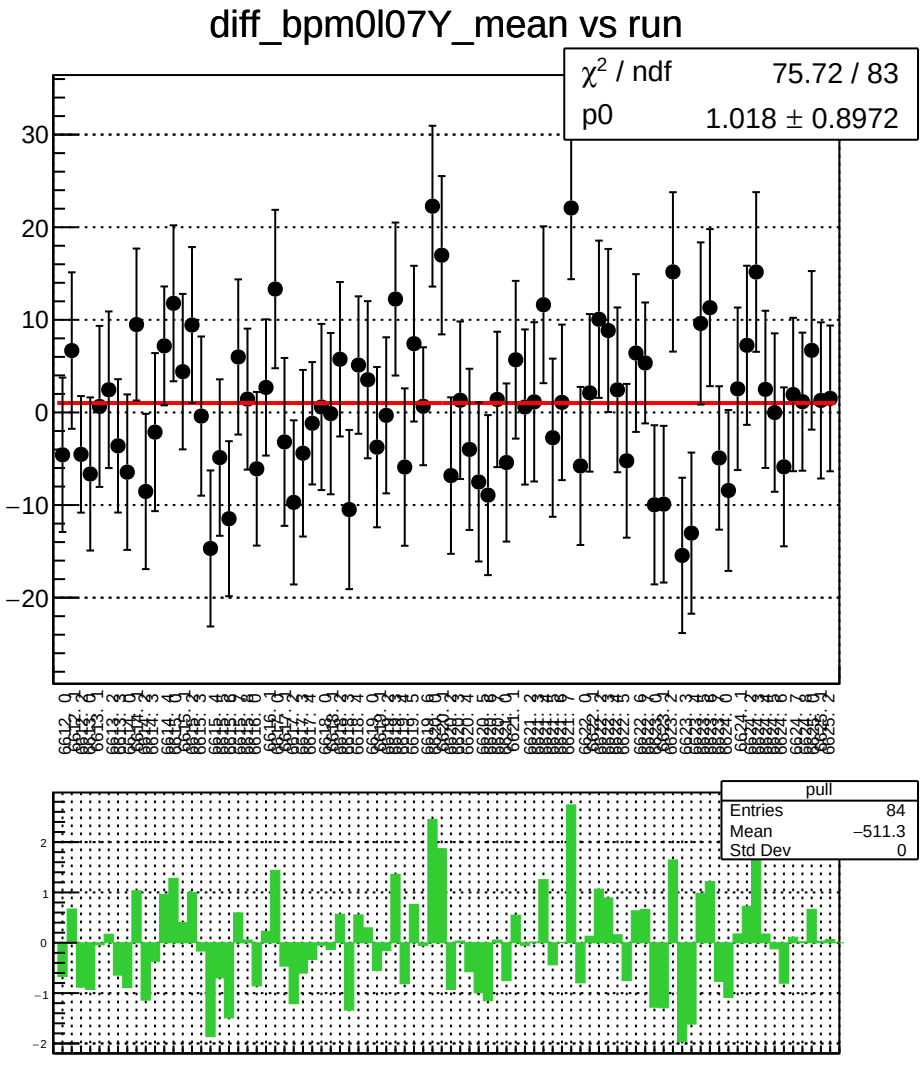

pull1D
Entries 84
Mean 0.01138
Std Dev 1.094

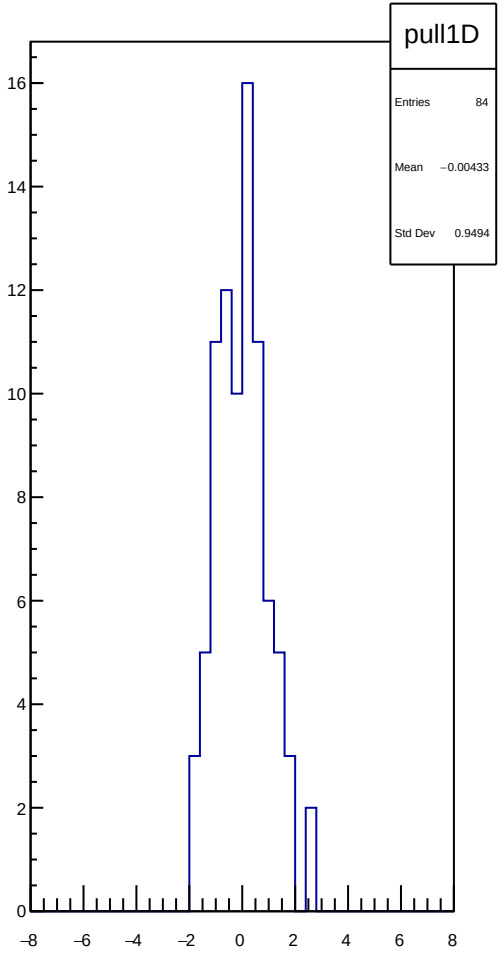

diff_bpm0l06Y_rms vs run
χ² / ndf 699.9 / 83
p0 873.7 ± 0.6839
940
920
900
880
860
840

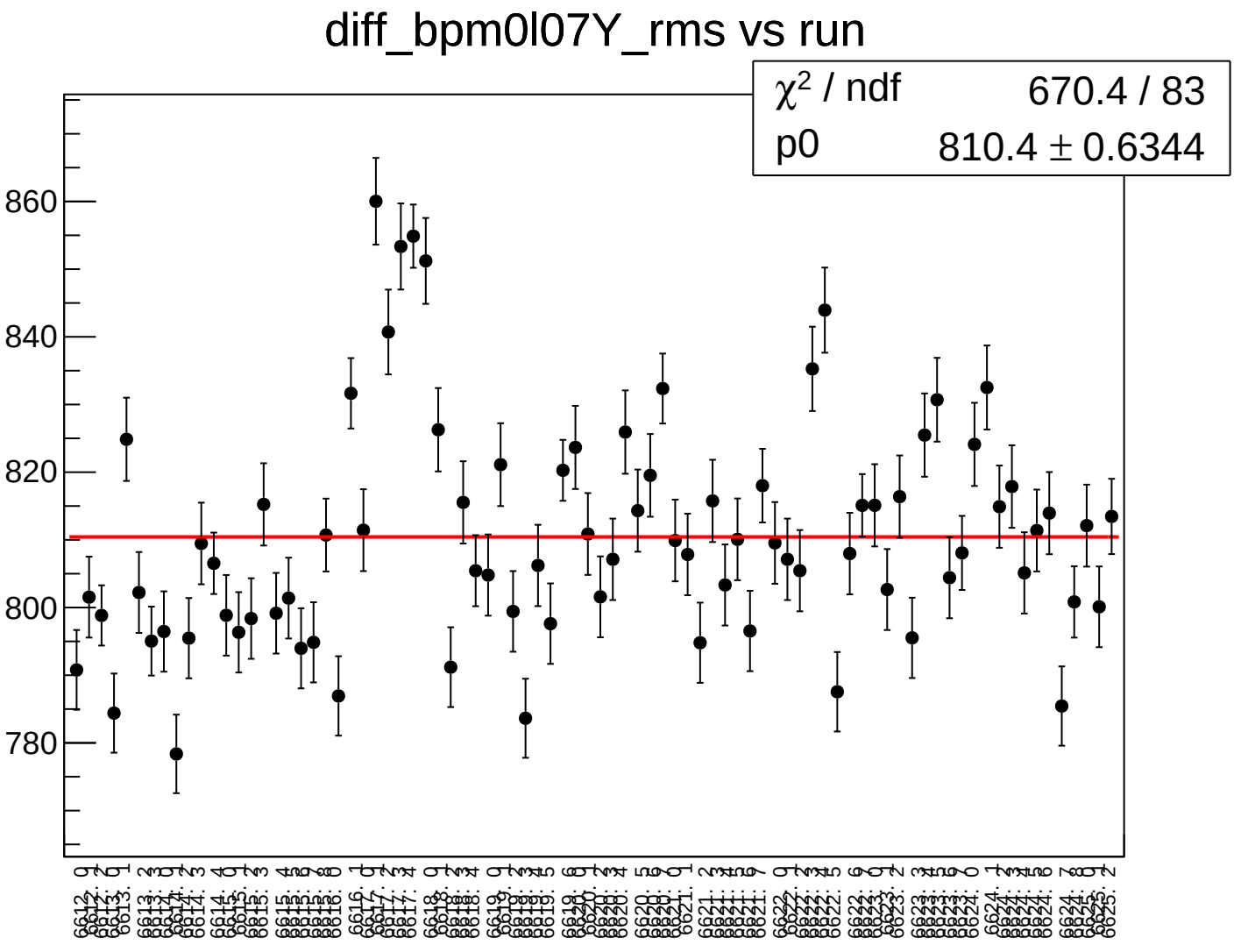

diff_bpm0l07X_mean vs run
χ² / ndf 79.31 / 83
p0 2.522 ± 12.35
400
200
0
−200
−400
pull
Entries 84
Mean −6.412e+04
Std Dev 0
3
2
1
0
−1
−2

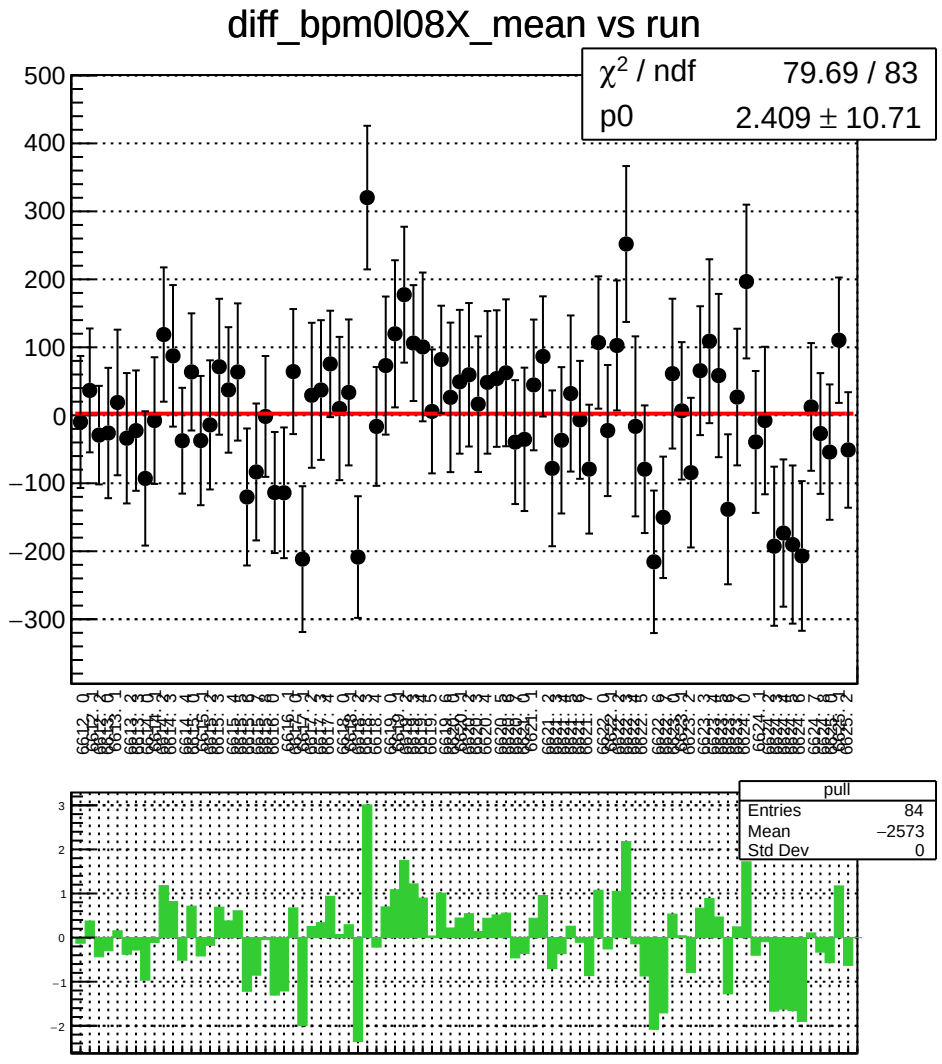

pull1D
Entries 84
Mean 4.175e−05
Std Dev 0.9717
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

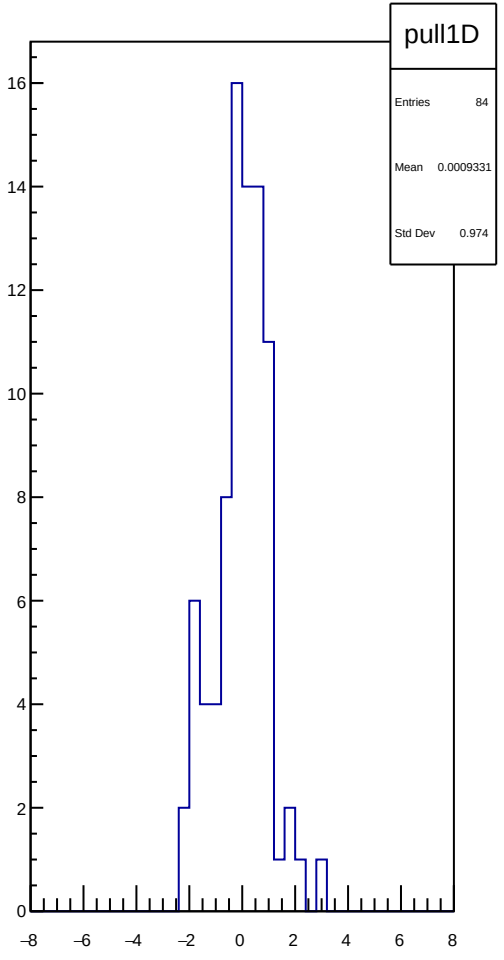

diff_bpm0l07X_rms vs run
χ² / ndf 1.142e+04 / 83
p0 1.112e+04 ± 8.736
15000
14000
13000
12000
11000
10000
9000

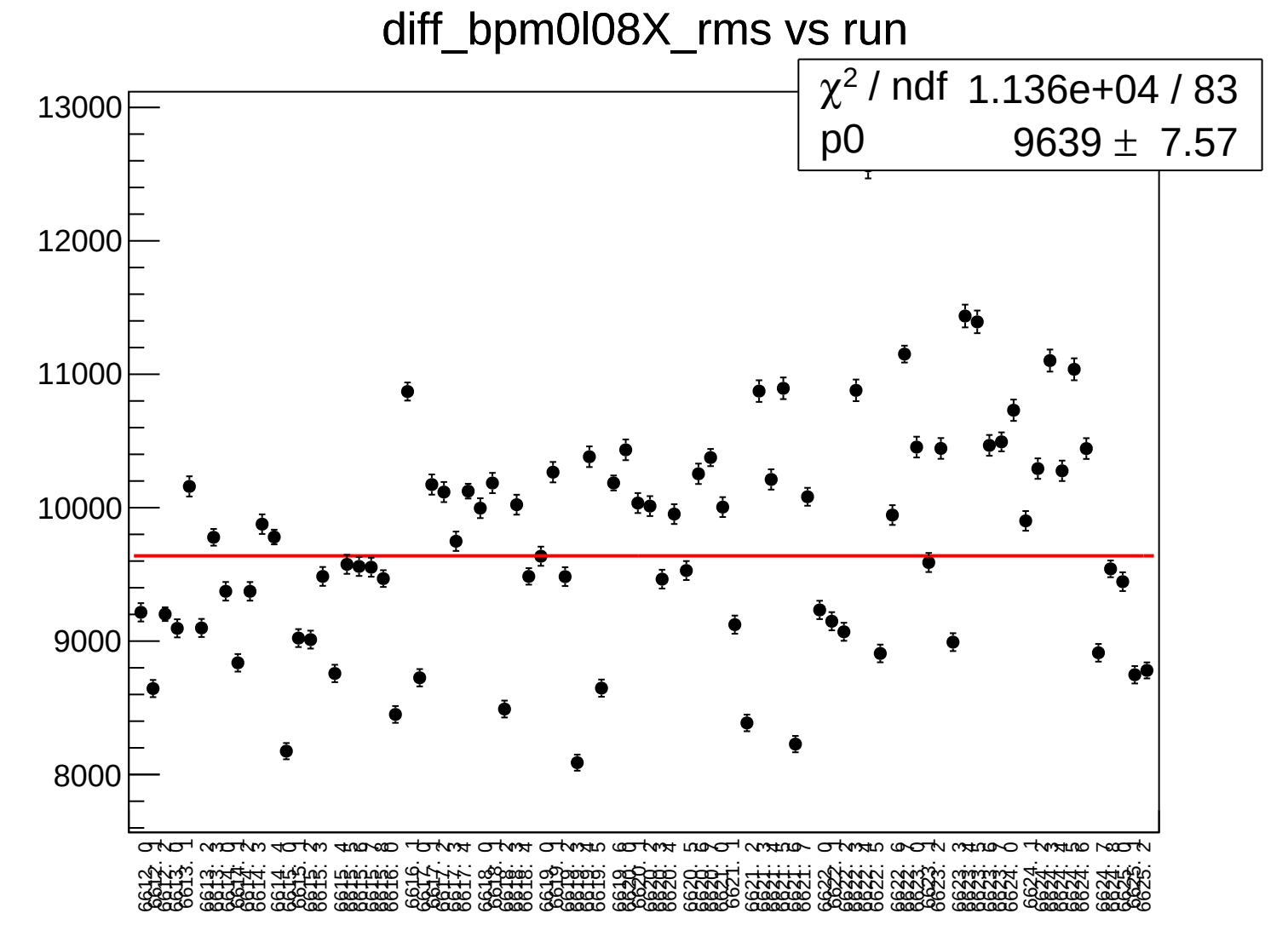

diff_bpm0l07Y_mean vs run
χ^2 / ndf 75.72 / 83
p0 1.018 ± 0.8972
pull
Entries 84
Mean −511.3
Std Dev 0

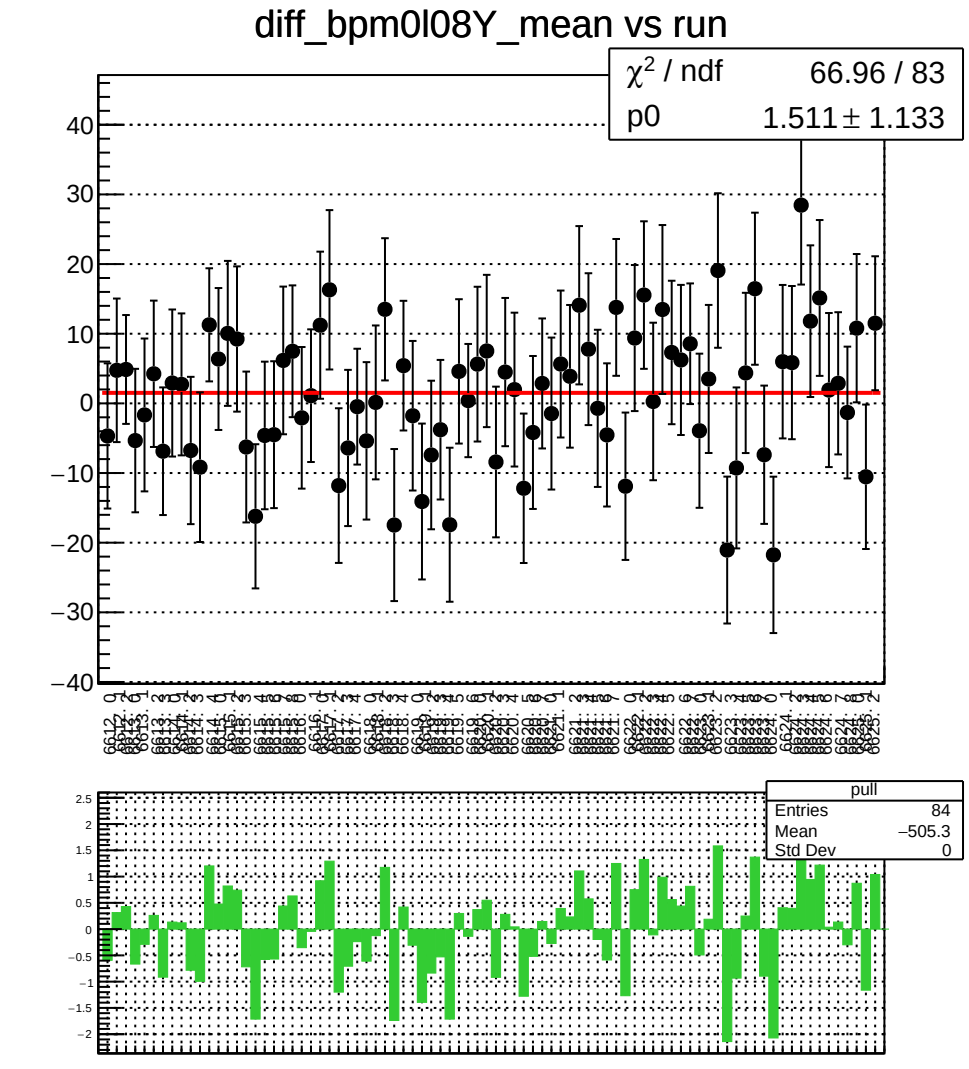

pull1D
Entries 84
Mean −0.00433
Std Dev 0.9494

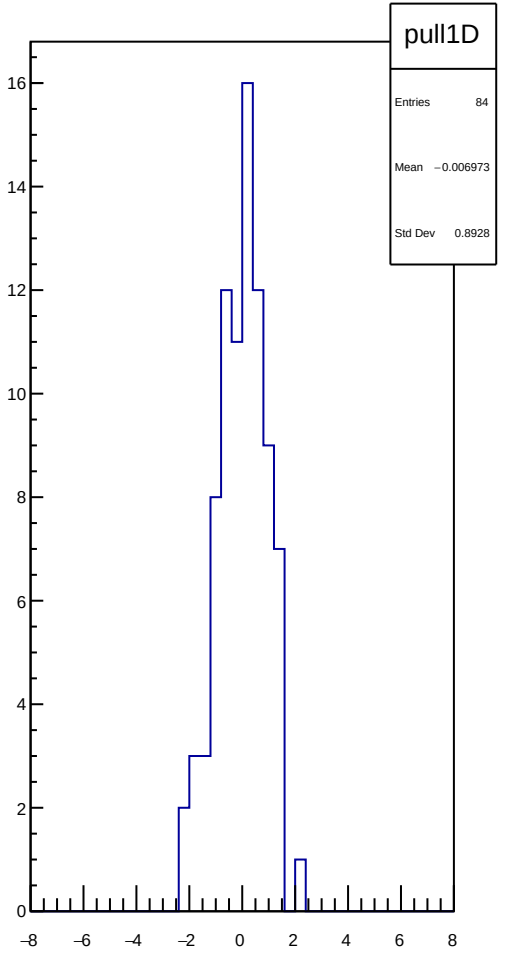

diff_bpm0l07Y_rms vs run
χ² / ndf 670.4 / 83
p0 810.4 ± 0.6344
860
840
820
800
780

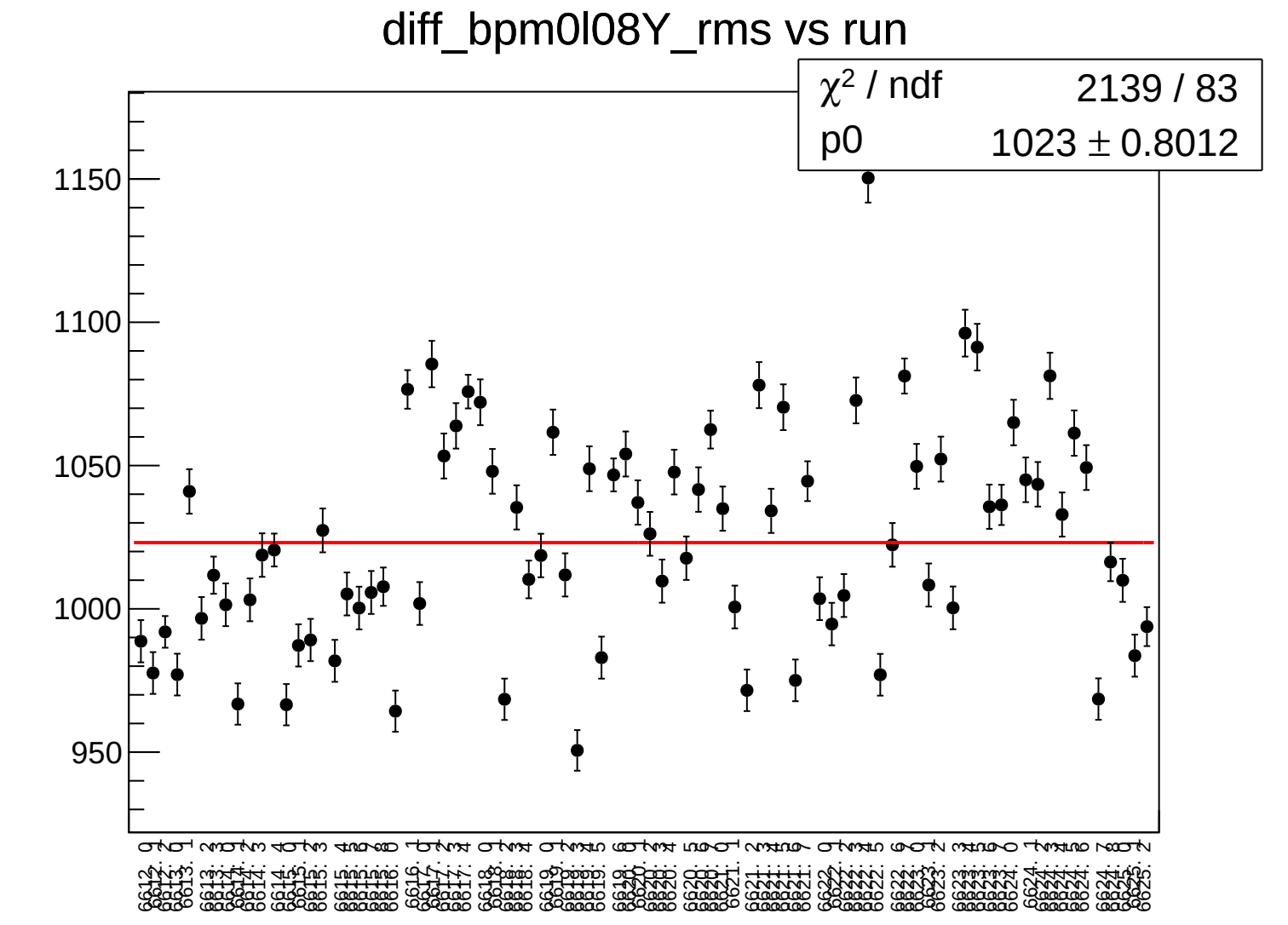

diff_bpm0l08X_mean vs run
χ² / ndf 79.69 / 83
p0 2.409 ± 10.71
pull
Entries 84
Mean −2573
Std Dev 0

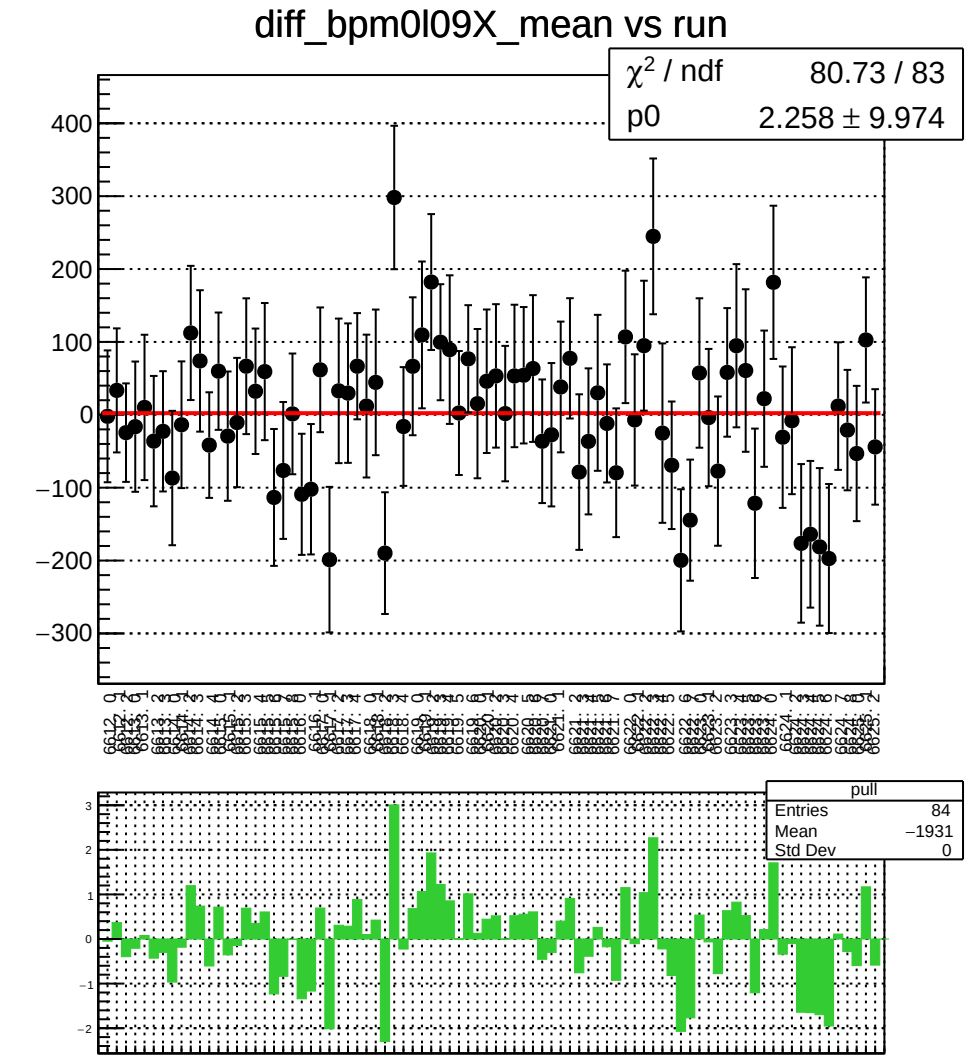

pull1D
Entries 84
Mean 0.0009331
Std Dev 0.974

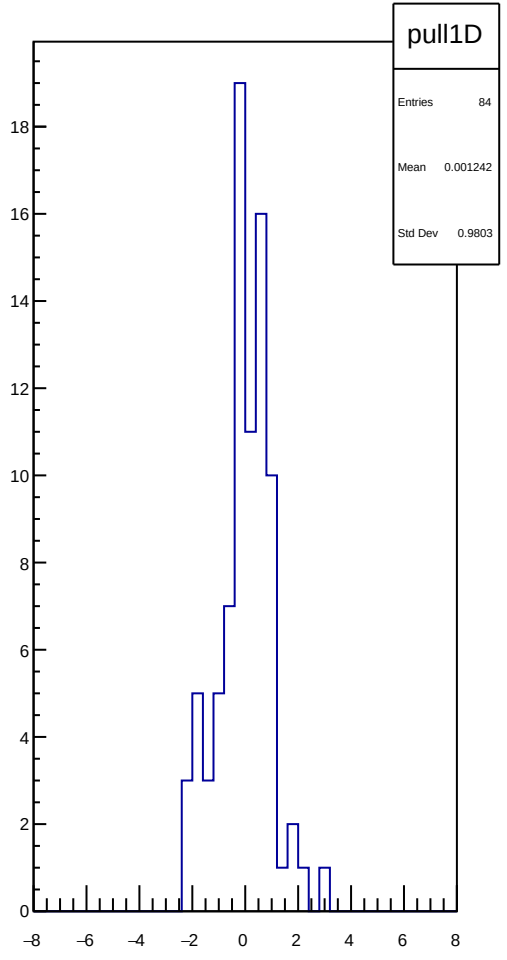

diff_bpm0l08X_rms vs run
χ² / ndf 1.136e+04 / 83
p0 9639 ± 7.57
13000
12000
11000
10000
9000
8000

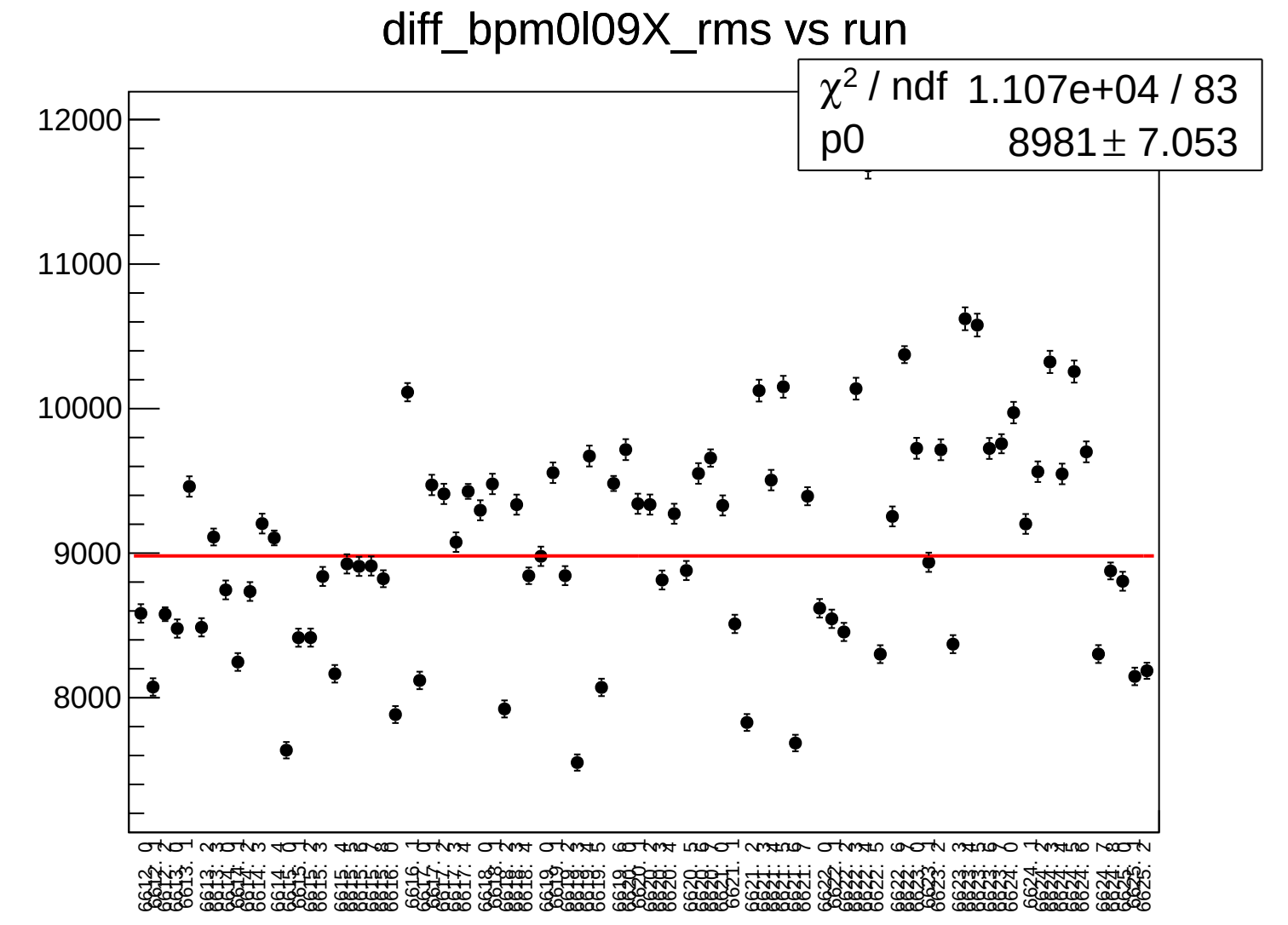

diff_bpm0l08Y_mean vs run
χ² / ndf 66.96 / 83
p0 1.511 ± 1.133
pull
Entries 84
Mean −505.3
Std Dev 0

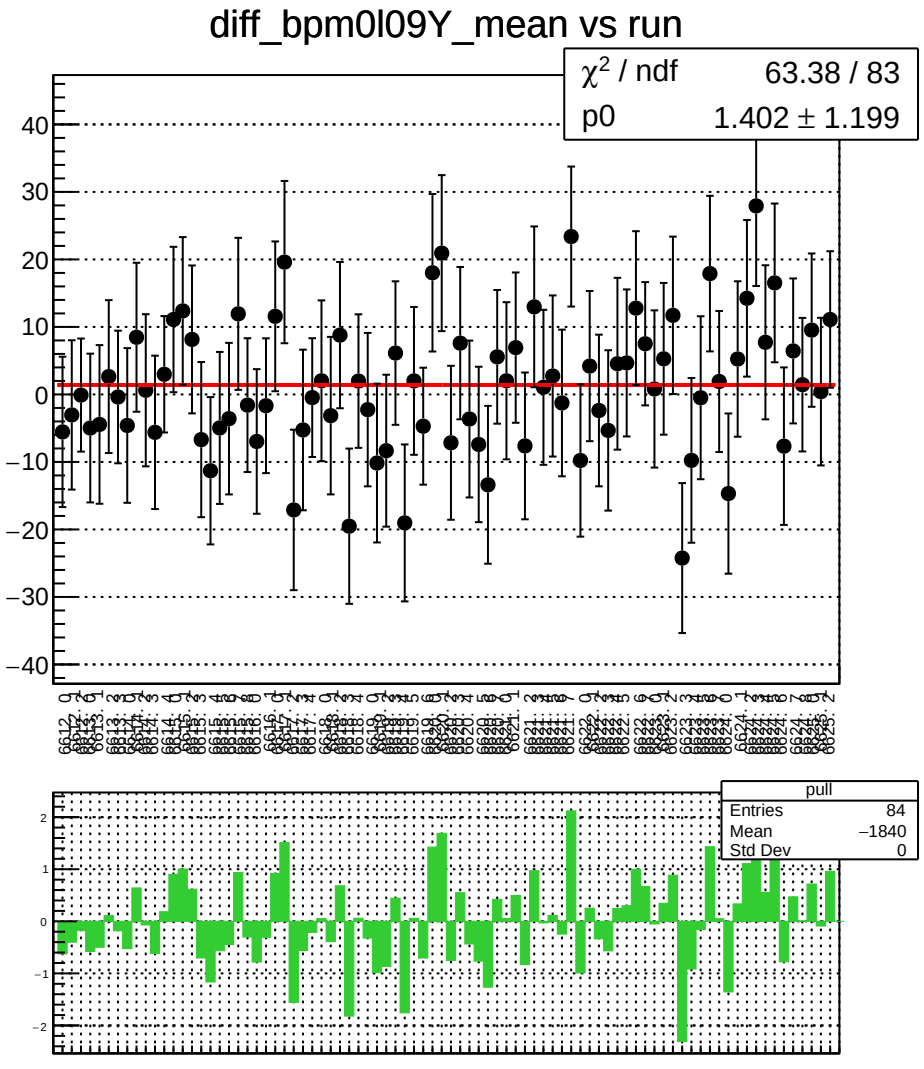

pull1D
Entries 84
Mean −0.006973
Std Dev 0.8928

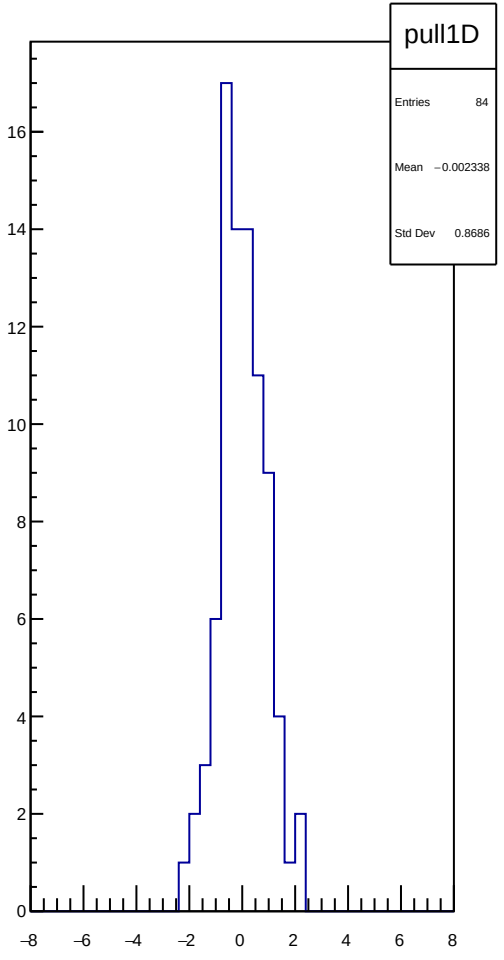

diff_bpm0l08Y_rms vs run
χ² / ndf 2139 / 83
p0 1023 ± 0.8012
1150
1100
1050
1000
950

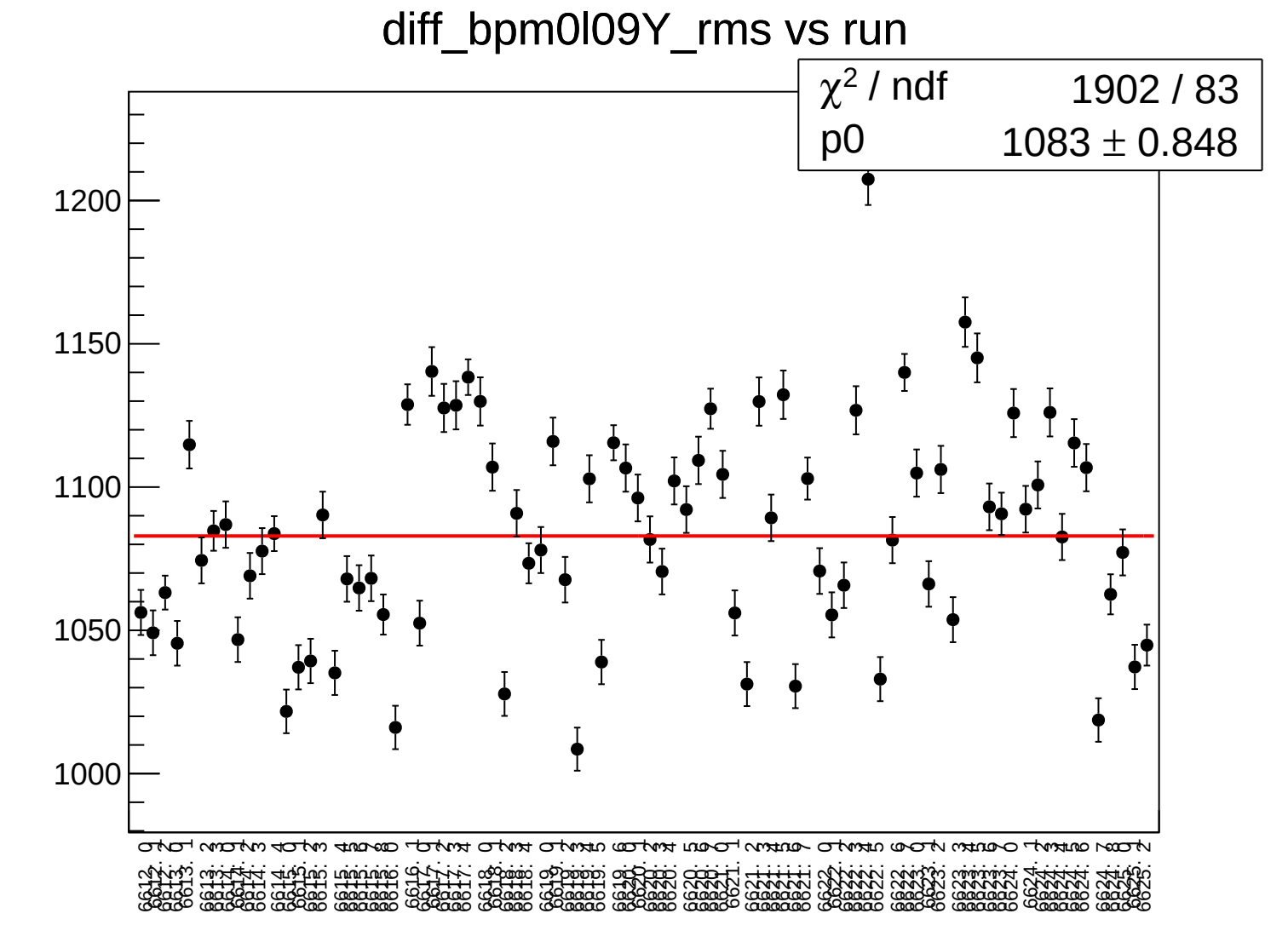

diff_bpm0l09X_mean vs run
χ² / ndf 80.73 / 83
p0 2.258 ± 9.974
pull
Entries 84
Mean −1931
Std Dev 0

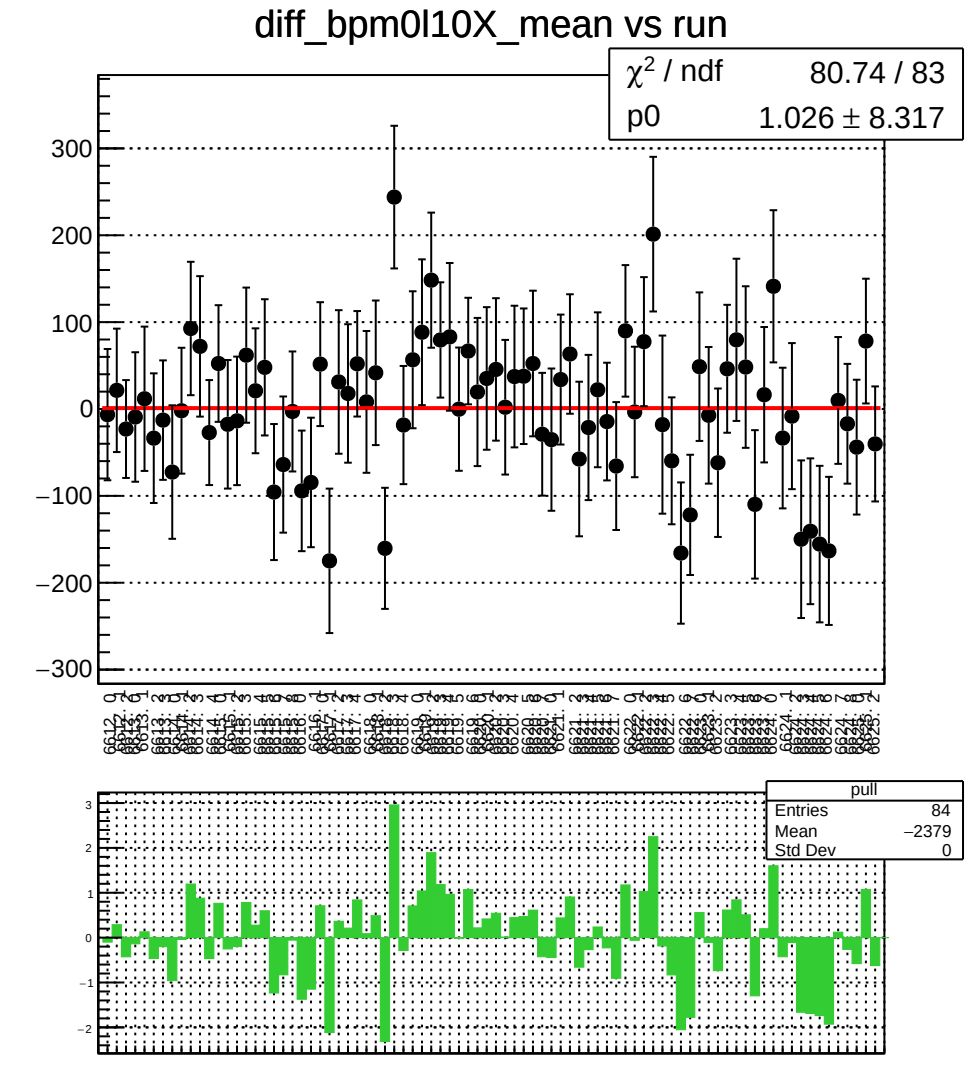

pull1D
Entries 84
Mean 0.001242
Std Dev 0.9803

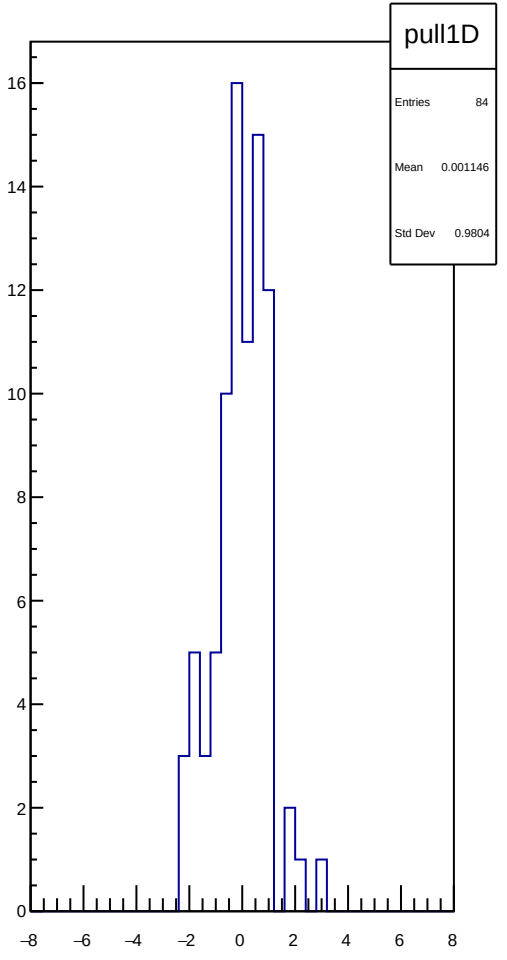

diff_bpm0l09X_rms vs run
χ² / ndf 1.107e+04 / 83
p0 8981 ± 7.053
12000
11000
10000
9000
8000

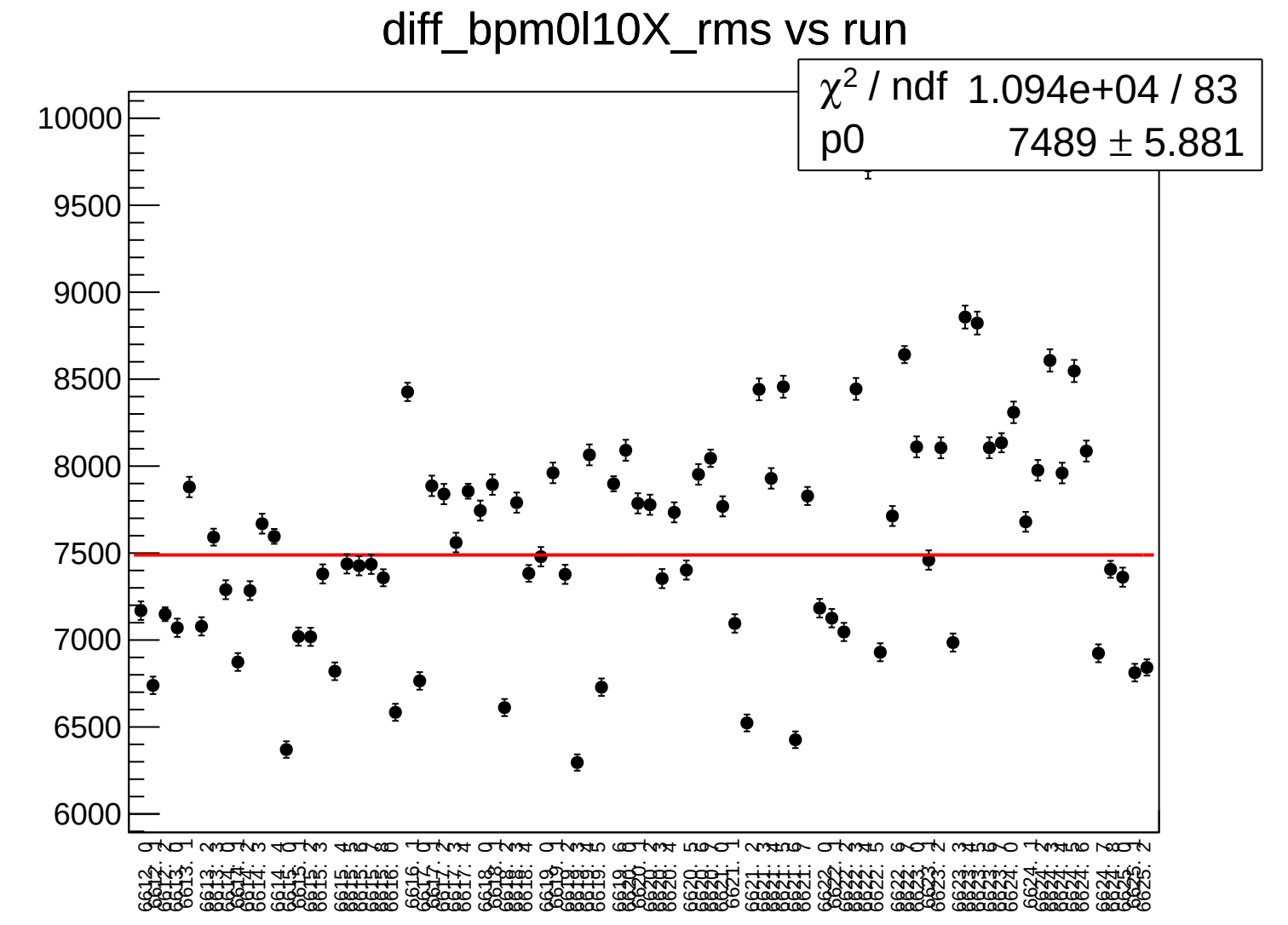

diff_bpm0l09Y_mean vs run
χ² / ndf 63.38 / 83
p0 1.402 ± 1.199
pull
Entries 84
Mean −1840
Std Dev 0

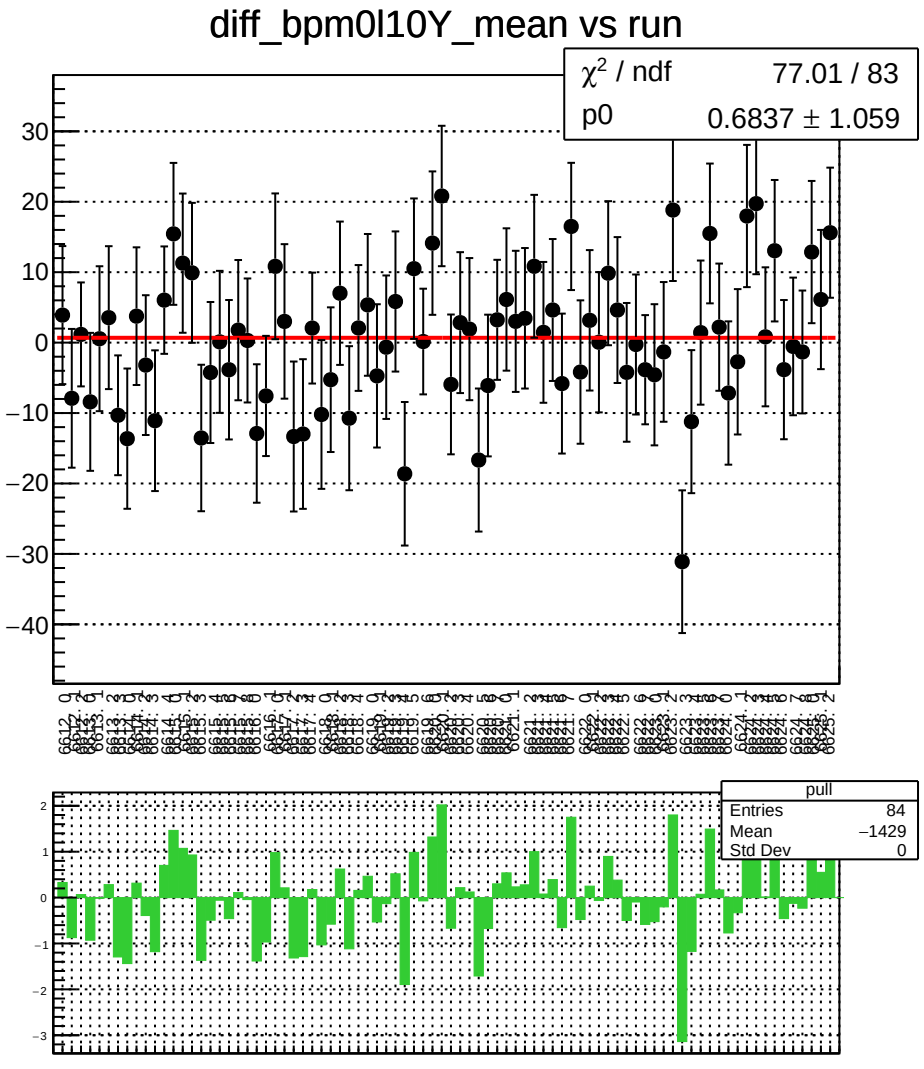

pull1D
Entries 84
Mean −0.002338
Std Dev 0.8686

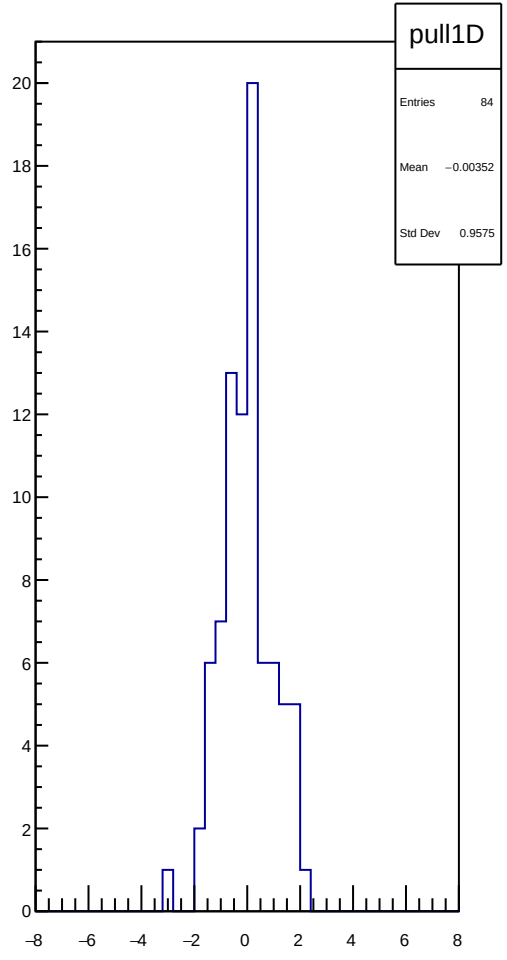

diff_bpm0l09Y_rms vs run
χ² / ndf 1902 / 83
p0 1083 ± 0.848
1200
1150
1100
1050
1000

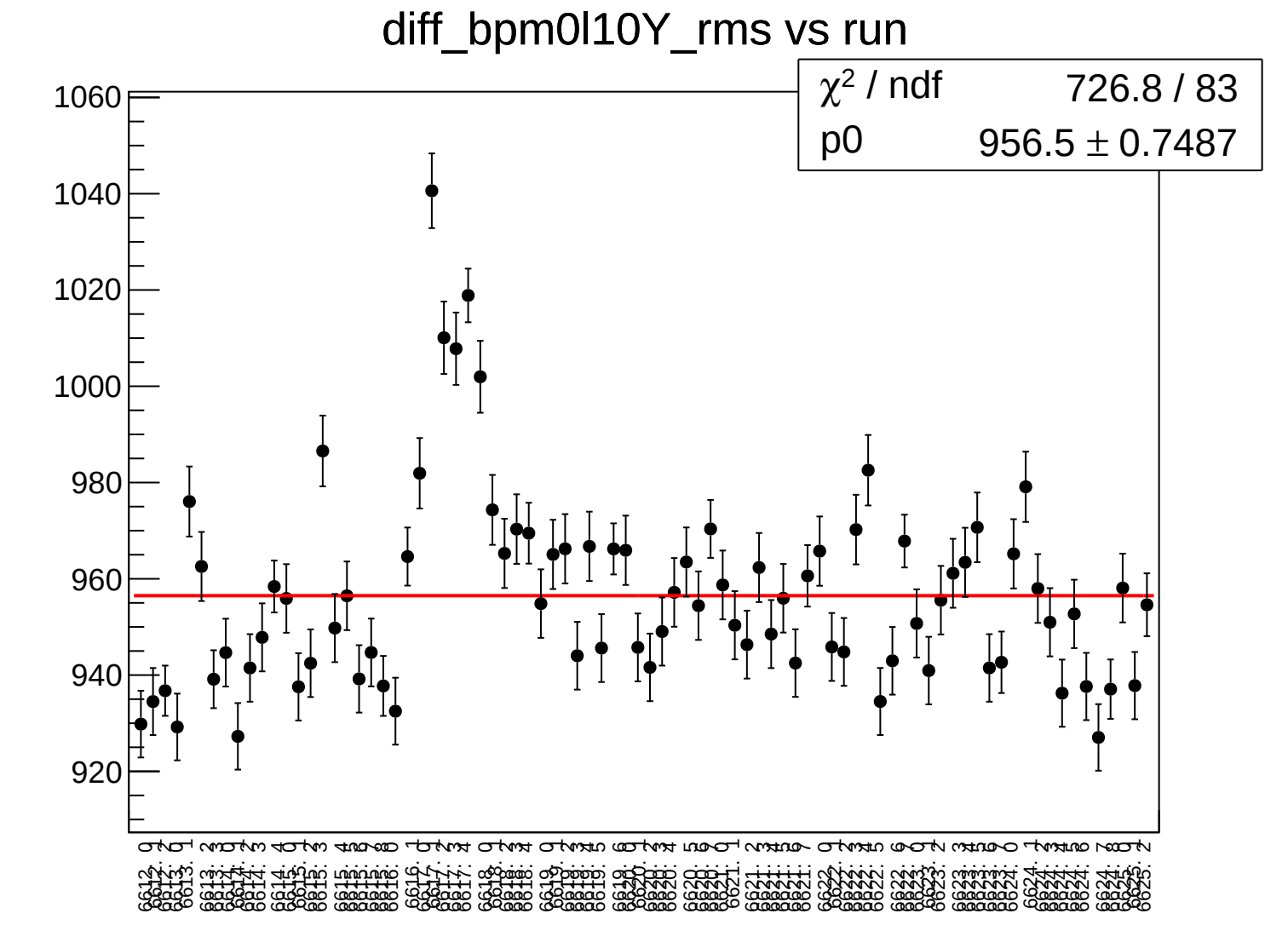

diff_bpm0l10X_mean vs run
χ² / ndf 80.74 / 83
p0 1.026 ± 8.317
pull
Entries 84
Mean −2379
Std Dev 0

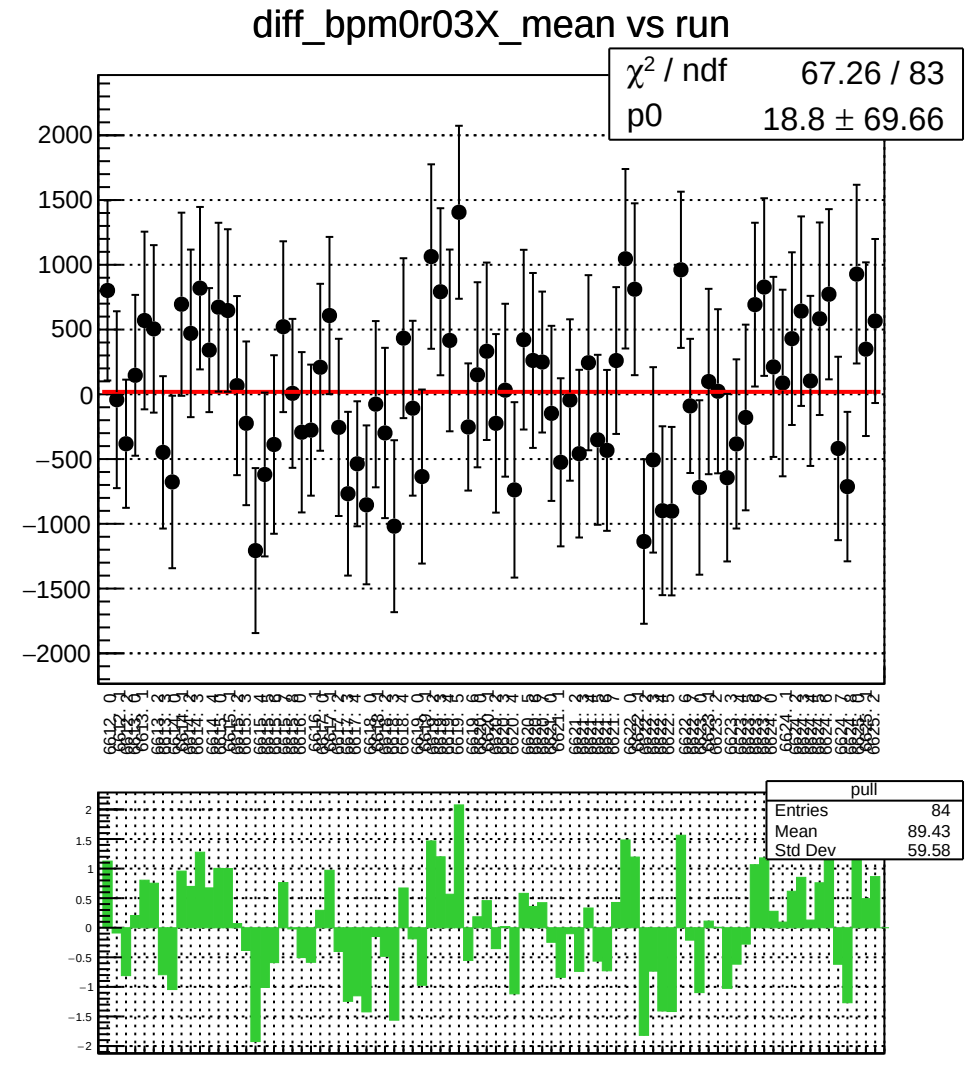

pull1D
Entries 84
Mean 0.001146
Std Dev 0.9804

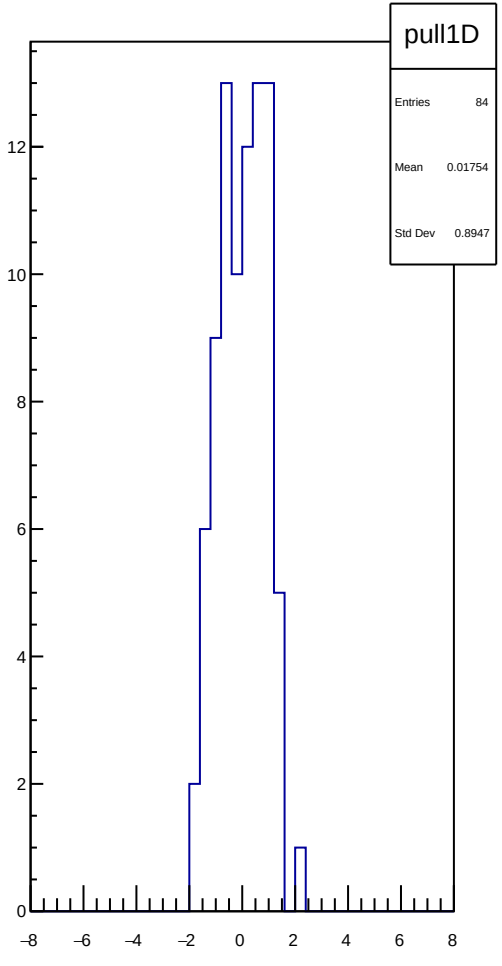

diff_bpm0l10X_rms vs run
χ² / ndf 1.094e+04 / 83
p0 7489 ± 5.881
10000
9500
9000
8500
8000
7500
7000
6500
6000

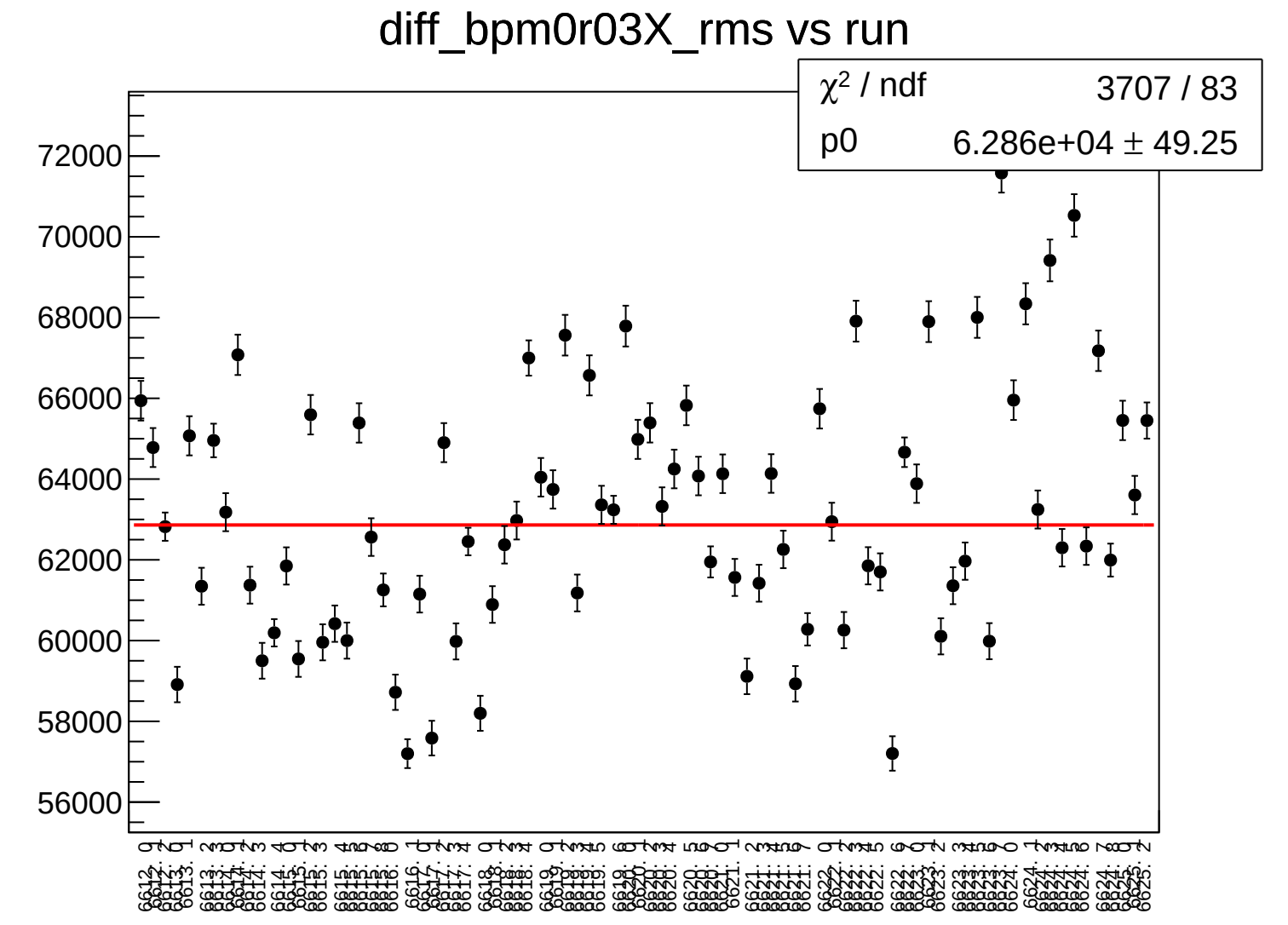

diff_bpm0l10Y_mean vs run
χ^2 / ndf 77.01 / 83
p0 0.6837 ± 1.059
pull
Entries 84
Mean −1429
Std Dev 0

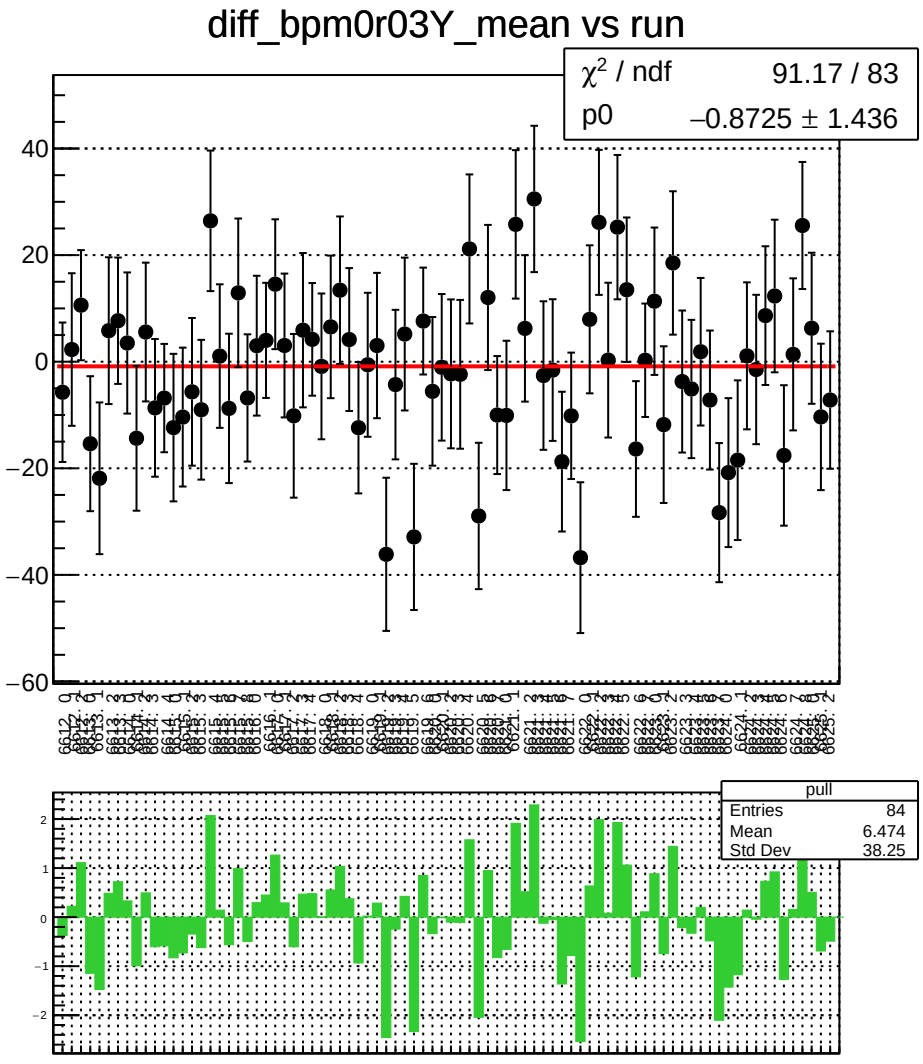

pull1D
Entries 84
Mean −0.00352
Std Dev 0.9575

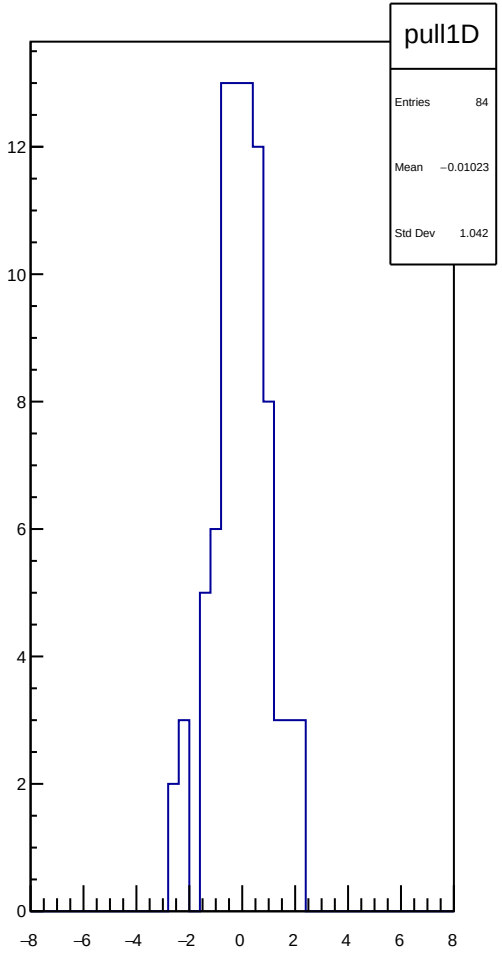

diff_bpm0l10Y_rms vs run
χ² / ndf 726.8 / 83
p0 956.5 ± 0.7487
1060
1040
1020
1000
980
960
940
920

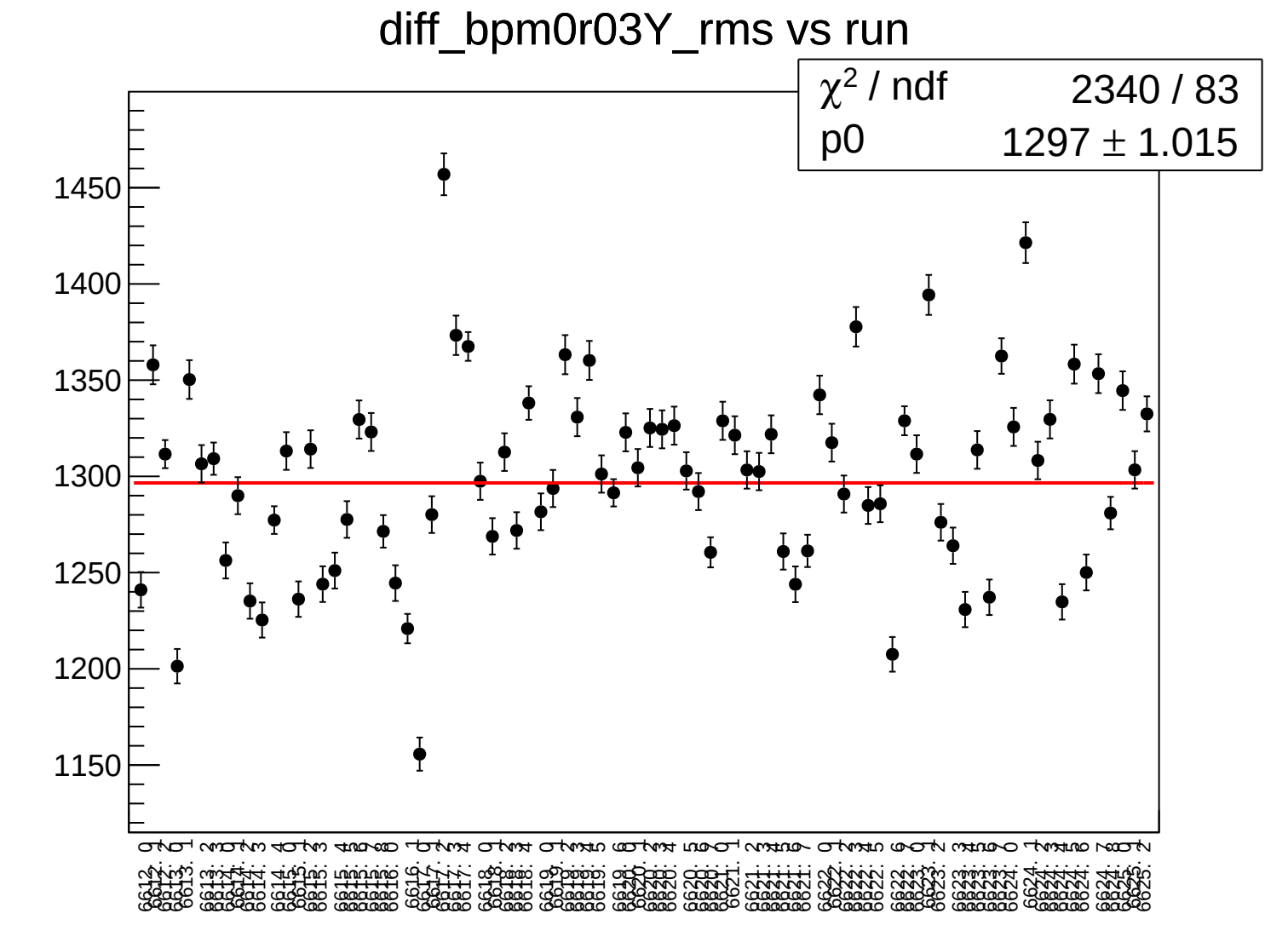

diff_bpm0r03X_mean vs run
χ² / ndf 67.26 / 83
p0 18.8 ± 69.66
pull
Entries 84
Mean 89.43
Std Dev 59.58

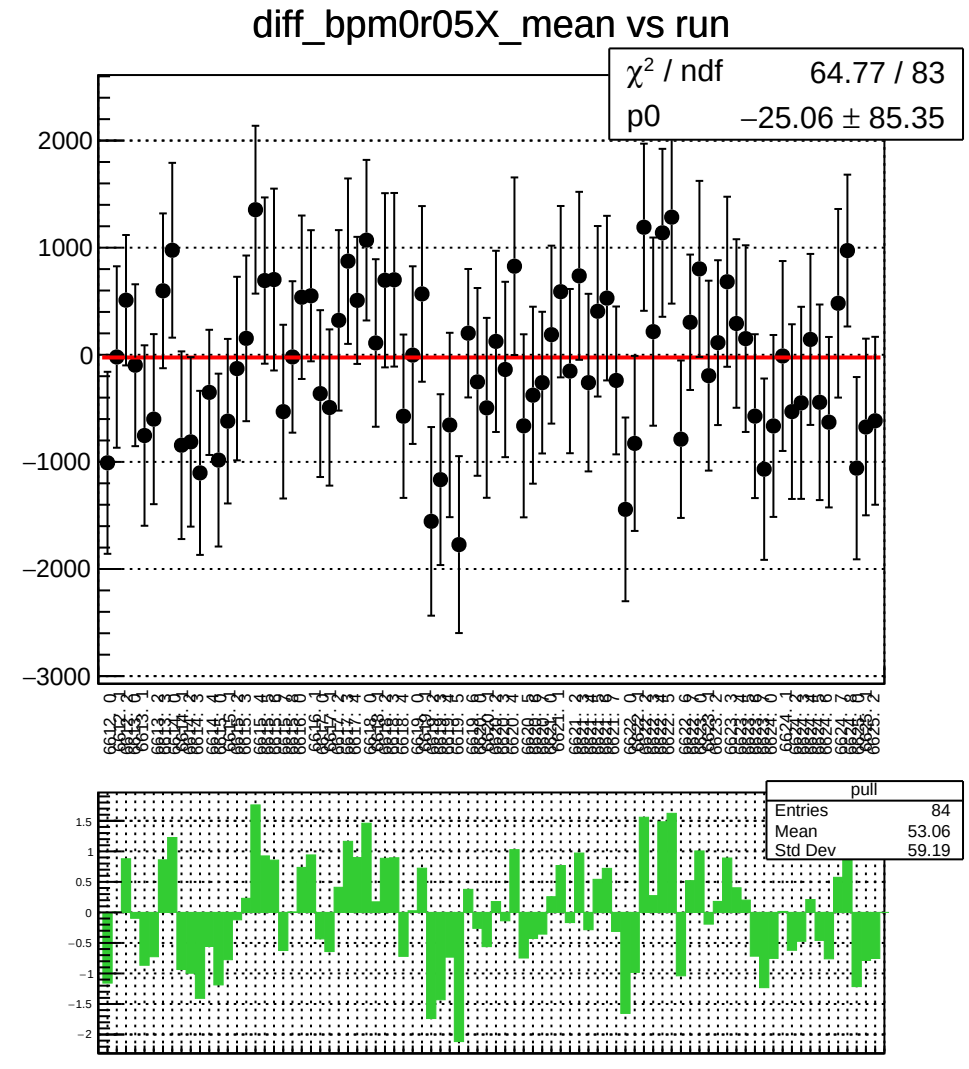

pull1D
Entries 84
Mean 0.01754
Std Dev 0.8947

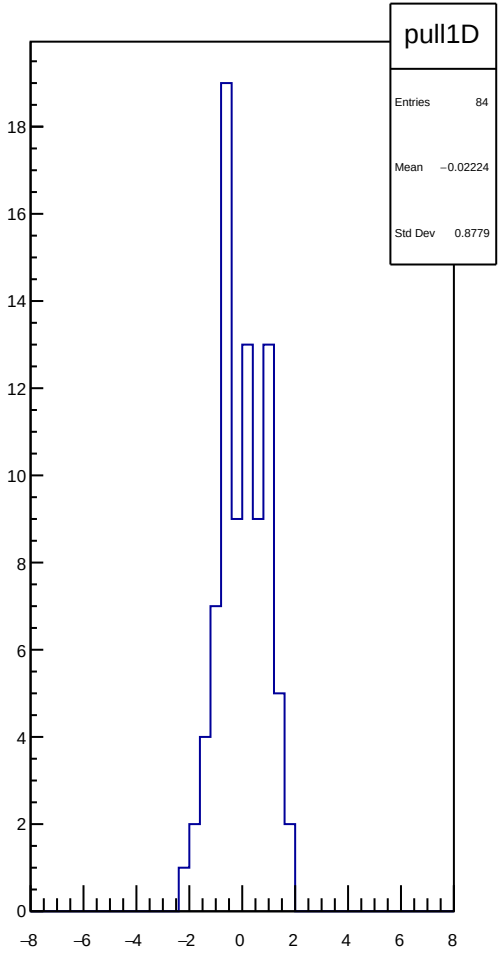

diff_bpm0r03X_rms vs run
χ² / ndf 3707 / 83
p0 6.286e+04 ± 49.25
72000
70000
68000
66000
64000
62000
60000
58000
56000

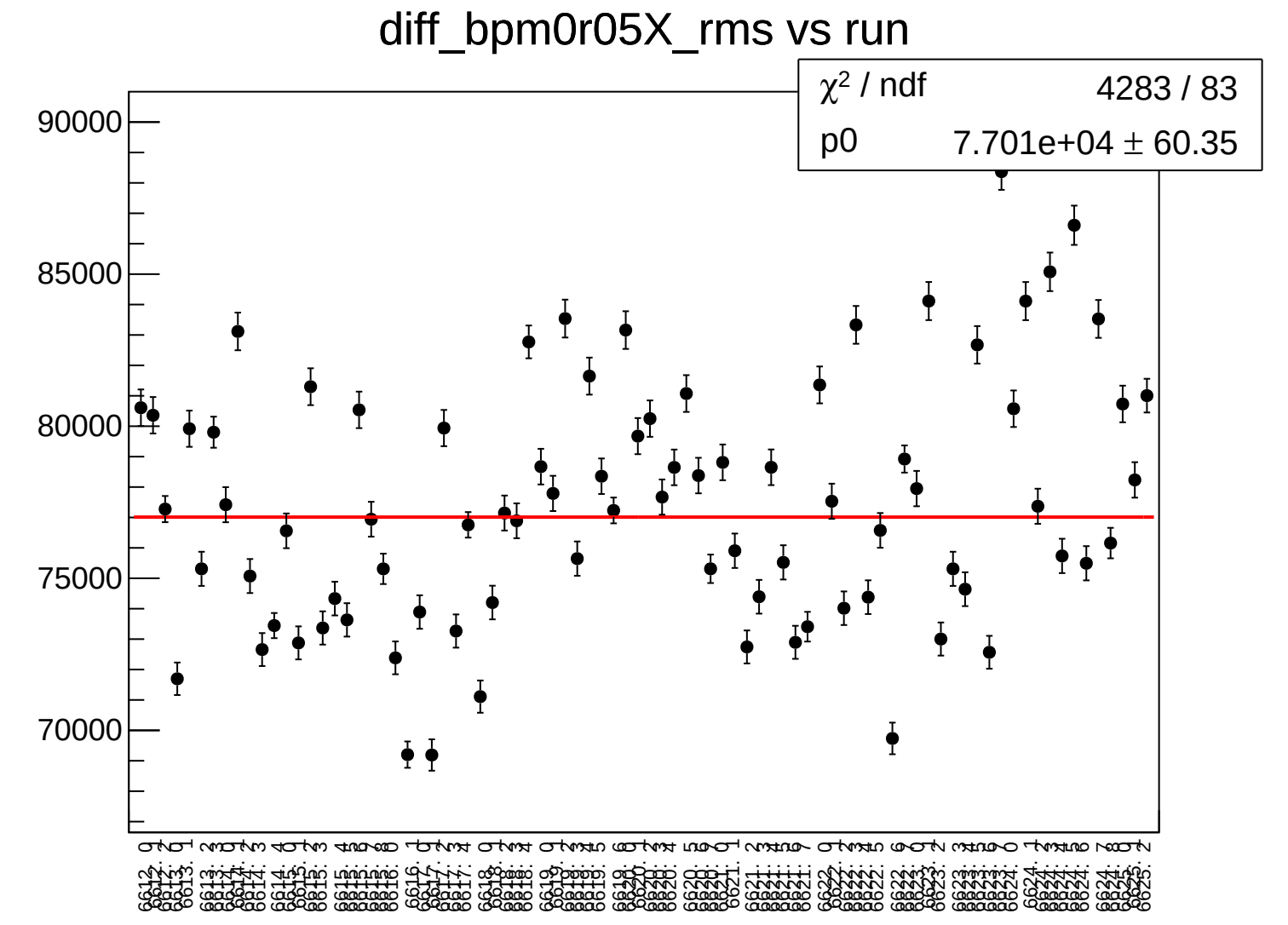

diff_bpm0r03Y_mean vs run
χ² / ndf 91.17 / 83
p0 −0.8725 ± 1.436
pull
Entries 84
Mean 6.474
Std Dev 38.25

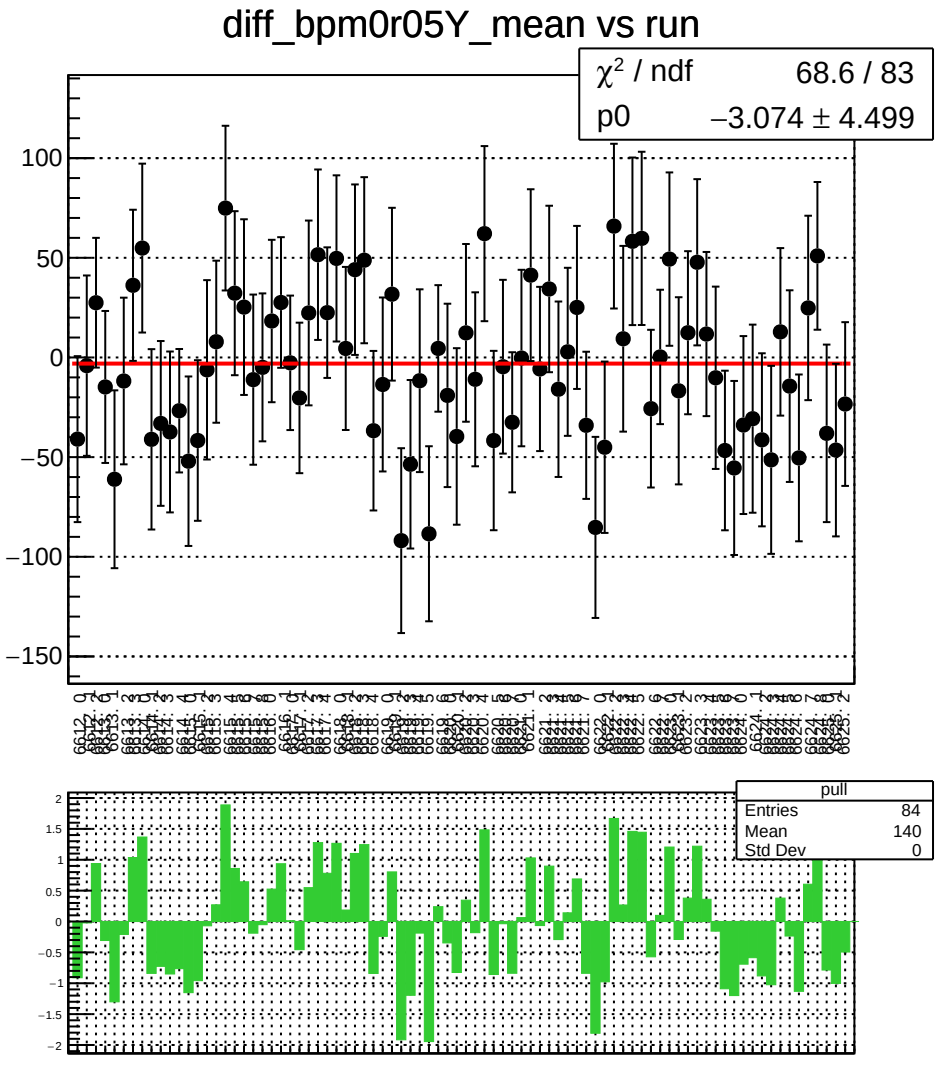

pull1D
Entries 84
Mean −0.01023
Std Dev 1.042

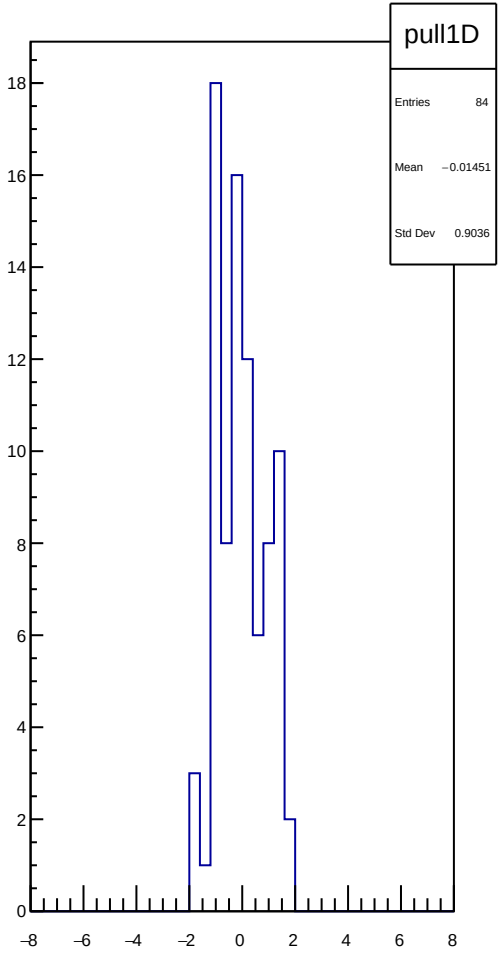

diff_bpm0r03Y_rms vs run
χ² / ndf 2340 / 83
p0 1297 ± 1.015
1450
1400
1350
1300
1250
1200
1150

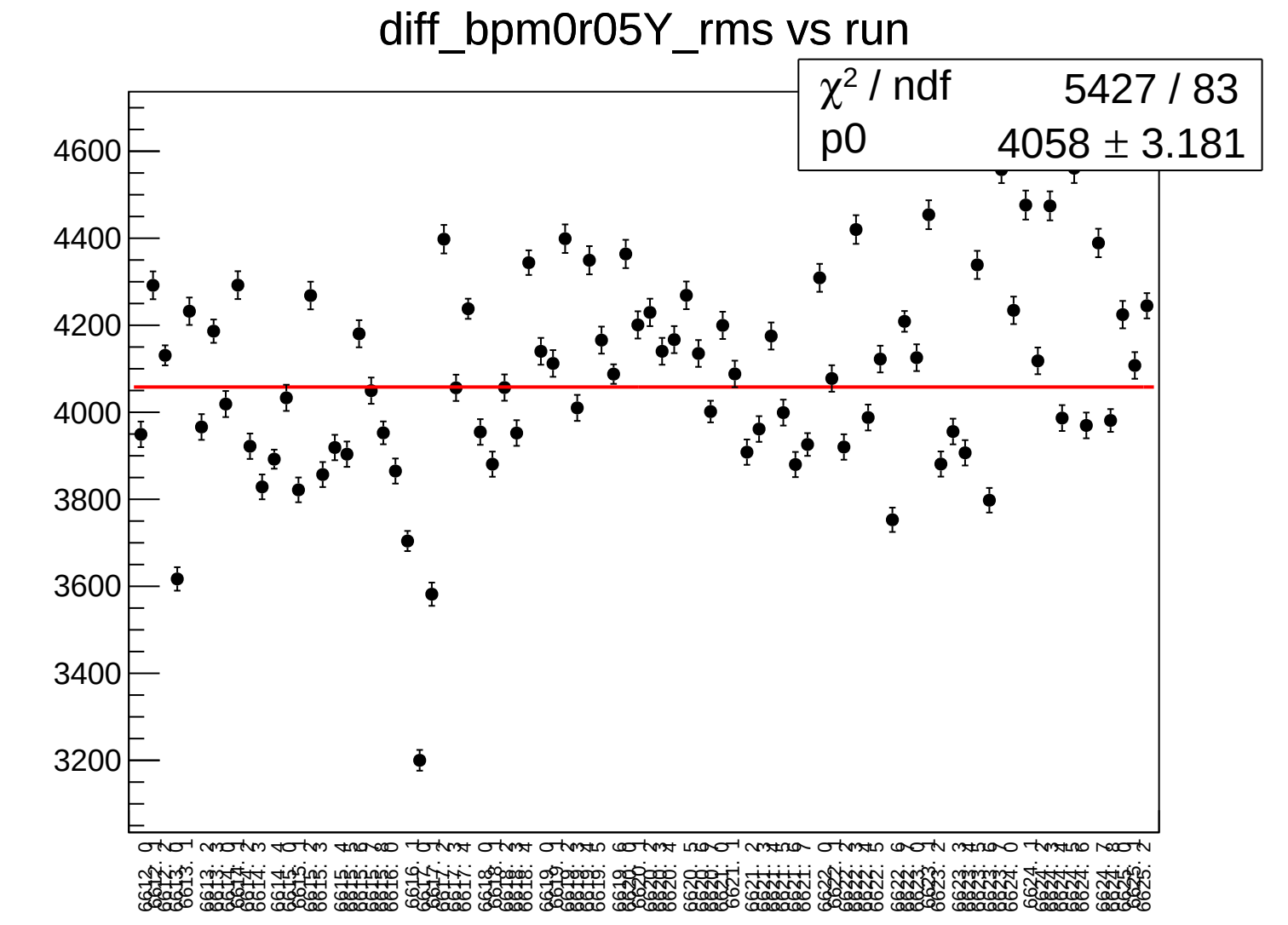

diff_bpm0r05X_mean vs run
χ² / ndf 64.77 / 83
p0 −25.06 ± 85.35
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 53.06
Std Dev 59.19
1.5
1
0.5
0
−0.5
−1
−1.5
−2

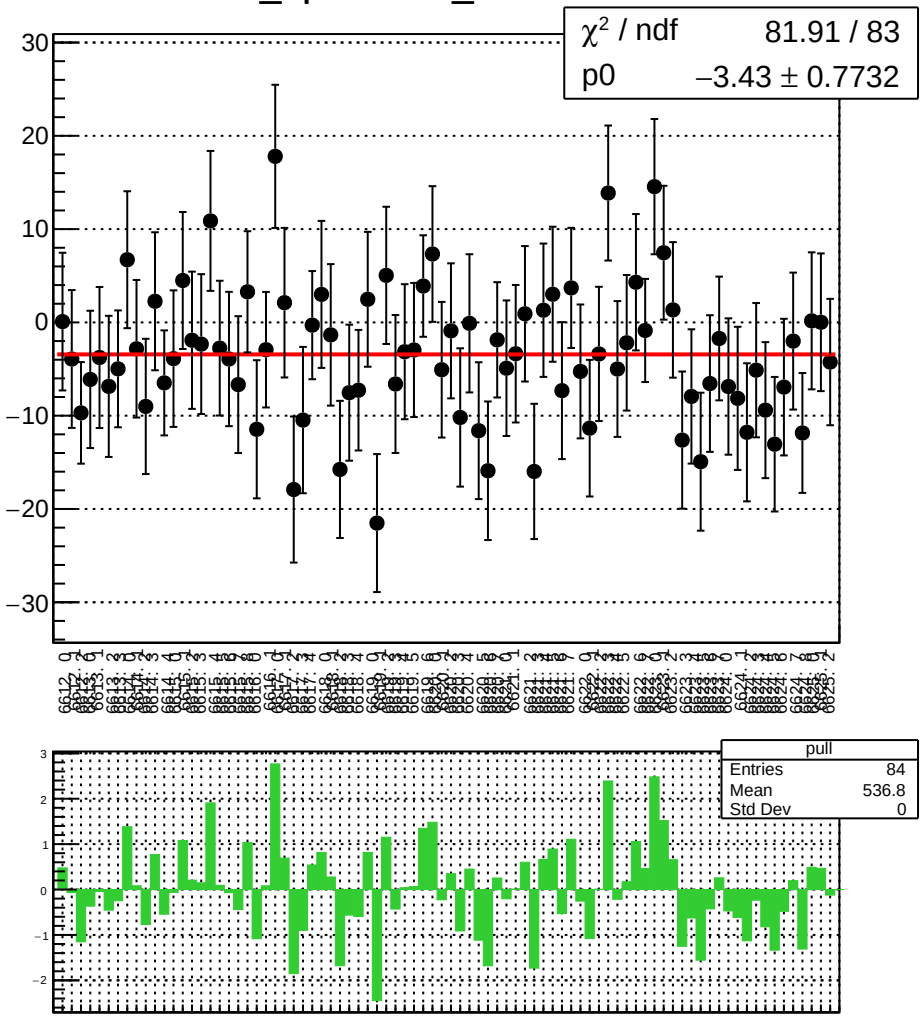

pull1D
Entries 84
Mean −0.02224
Std Dev 0.8779
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

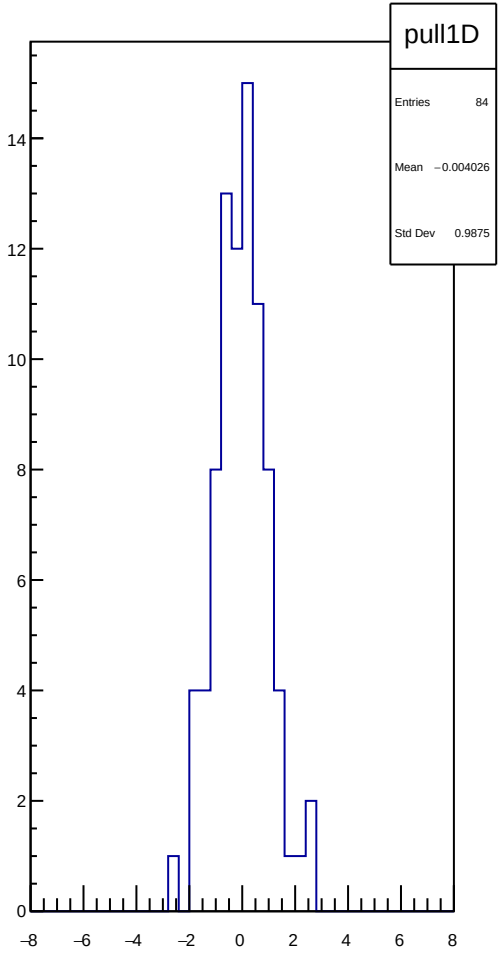

diff_bpm0r05X_rms vs run
χ² / ndf 4283 / 83
p0 7.701e+04 ± 60.35
90000
85000
80000
75000
70000

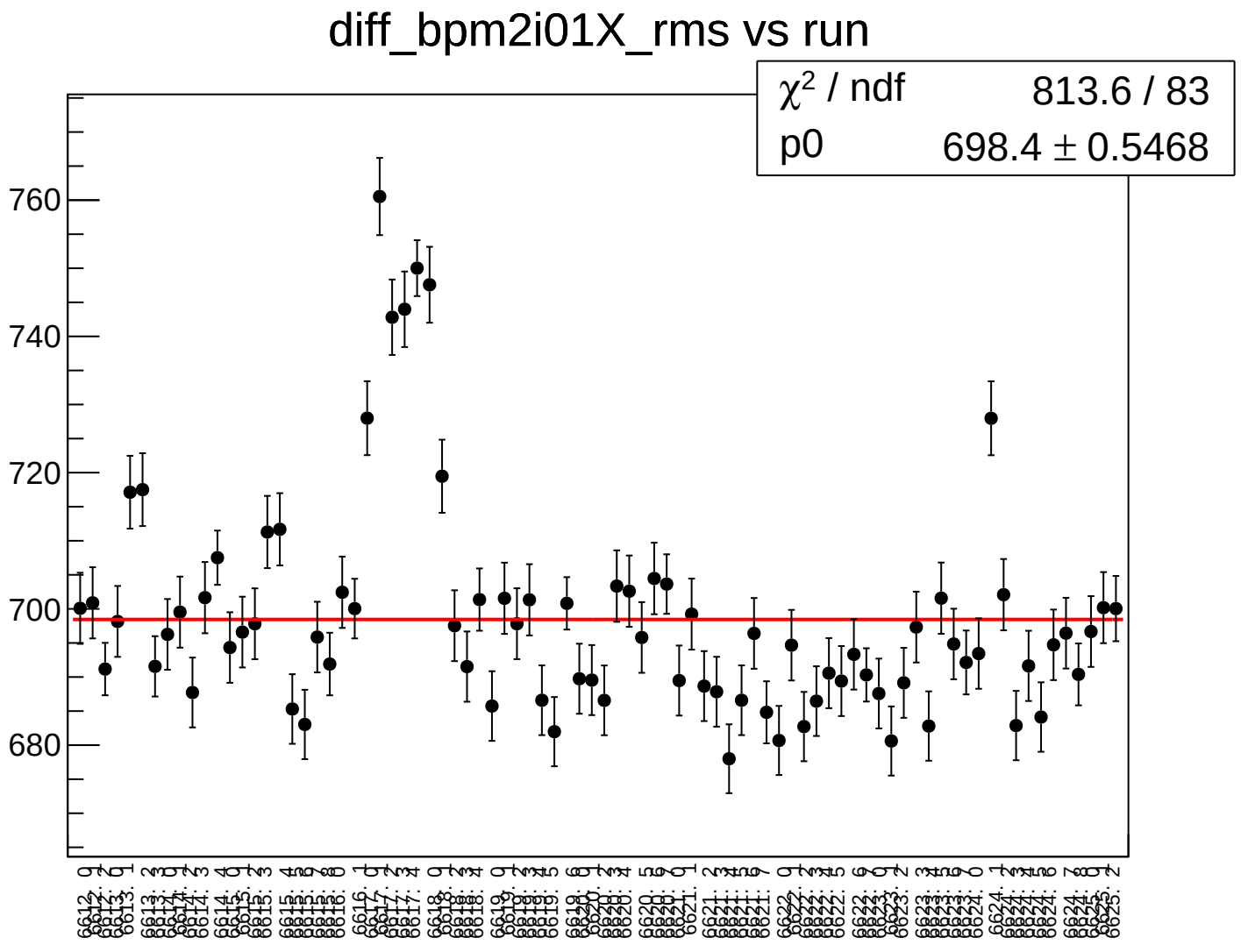

diff_bpm0r05Y_mean vs run
χ² / ndf 68.6 / 83
p0 −3.074 ± 4.499
pull
Entries 84
Mean 140
Std Dev 0

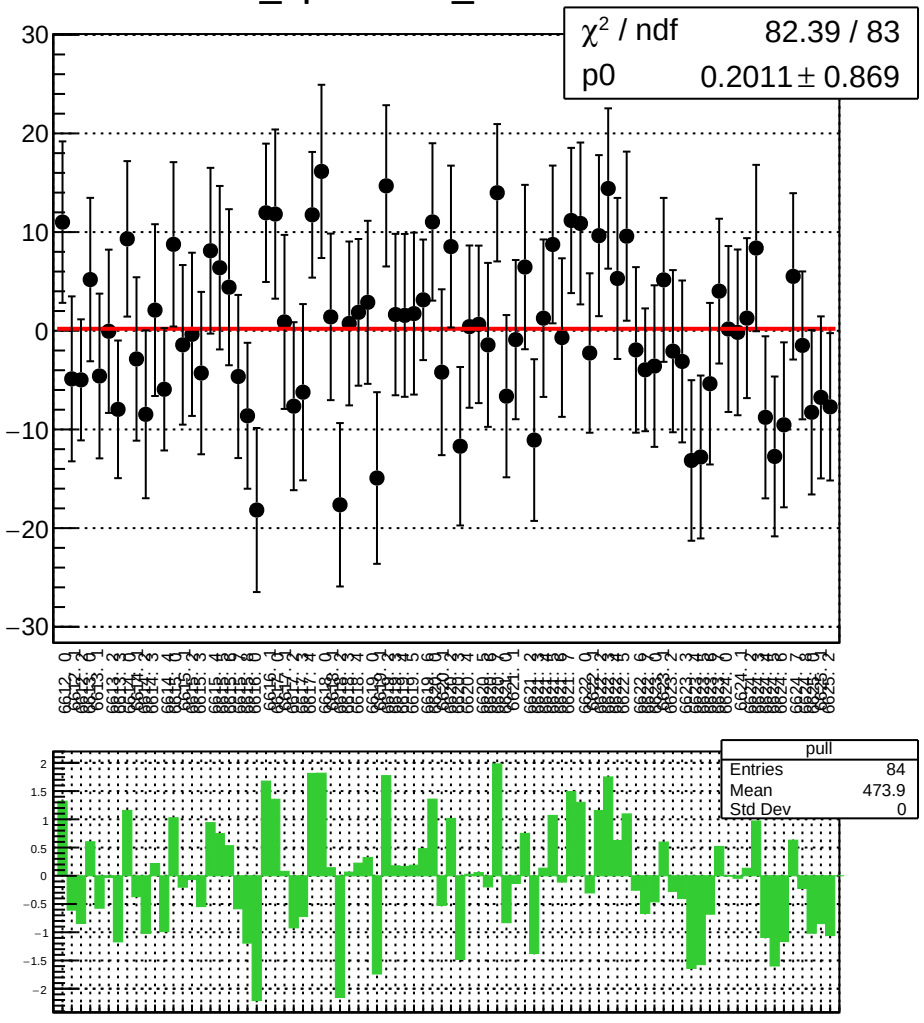

pull1D
Entries 84
Mean −0.01451
Std Dev 0.9036

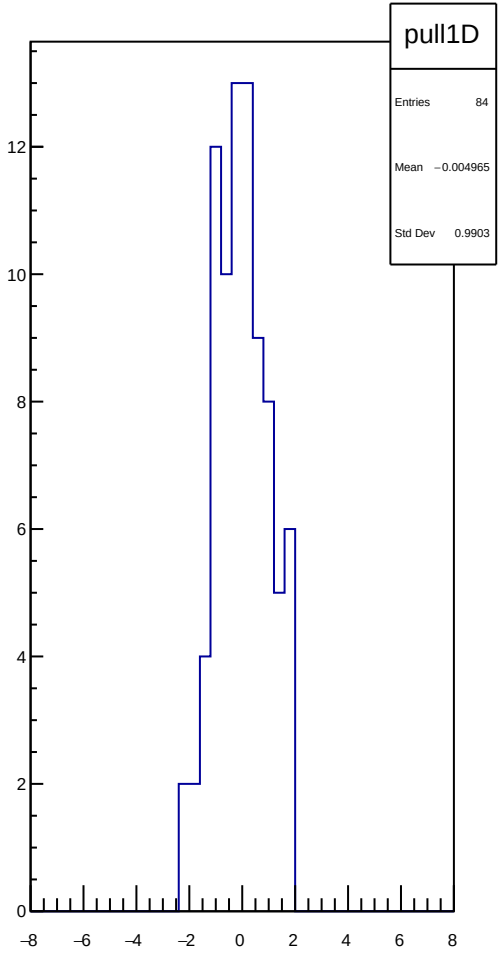

diff_bpm0r05Y_rms vs run
χ² / ndf 5427 / 83
p0 4058 ± 3.181
4600
4400
4200
4000
3800
3600
3400
3200

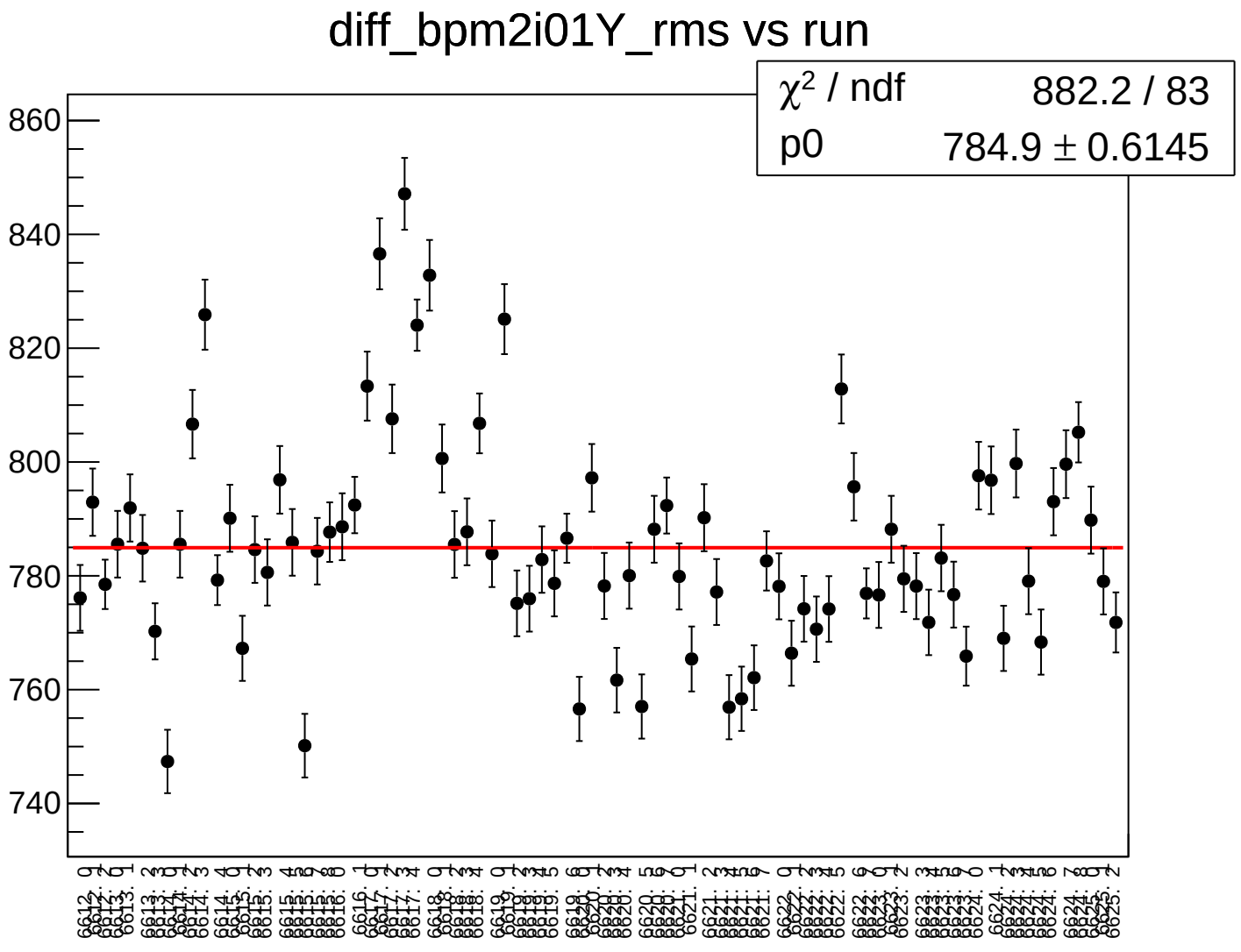

diff_bpm2i01X_mean vs run
χ² / ndf 81.91 / 83
p0 −3.43 ± 0.7732
pull
Entries 84
Mean 536.8
Std Dev 0

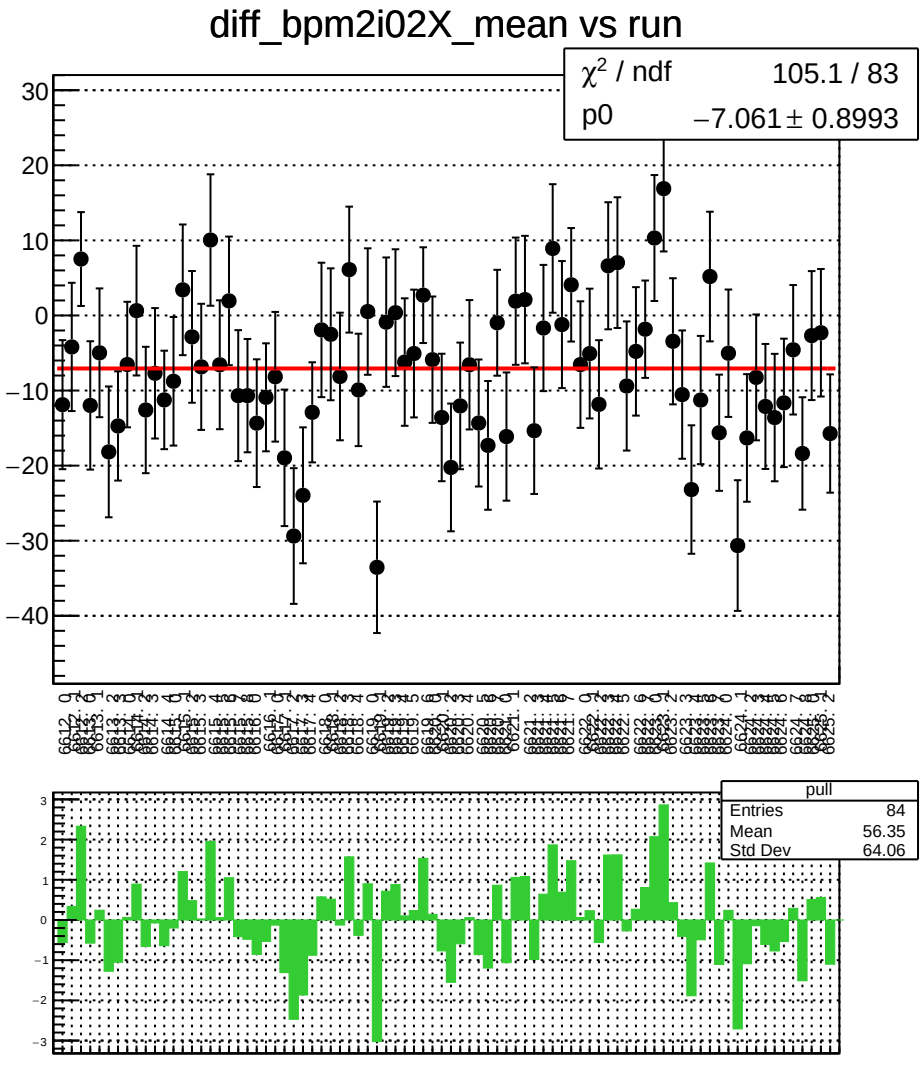

pull1D
Entries 84
Mean −0.004026
Std Dev 0.9875

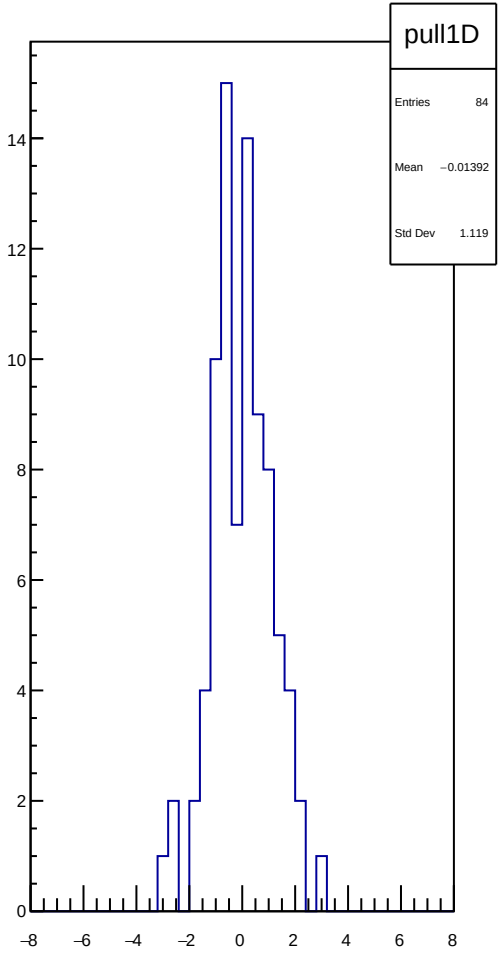

diff_bpm2i01X_rms vs run
χ² / ndf 813.6 / 83
p0 698.4 ± 0.5468
760
740
720
700
680

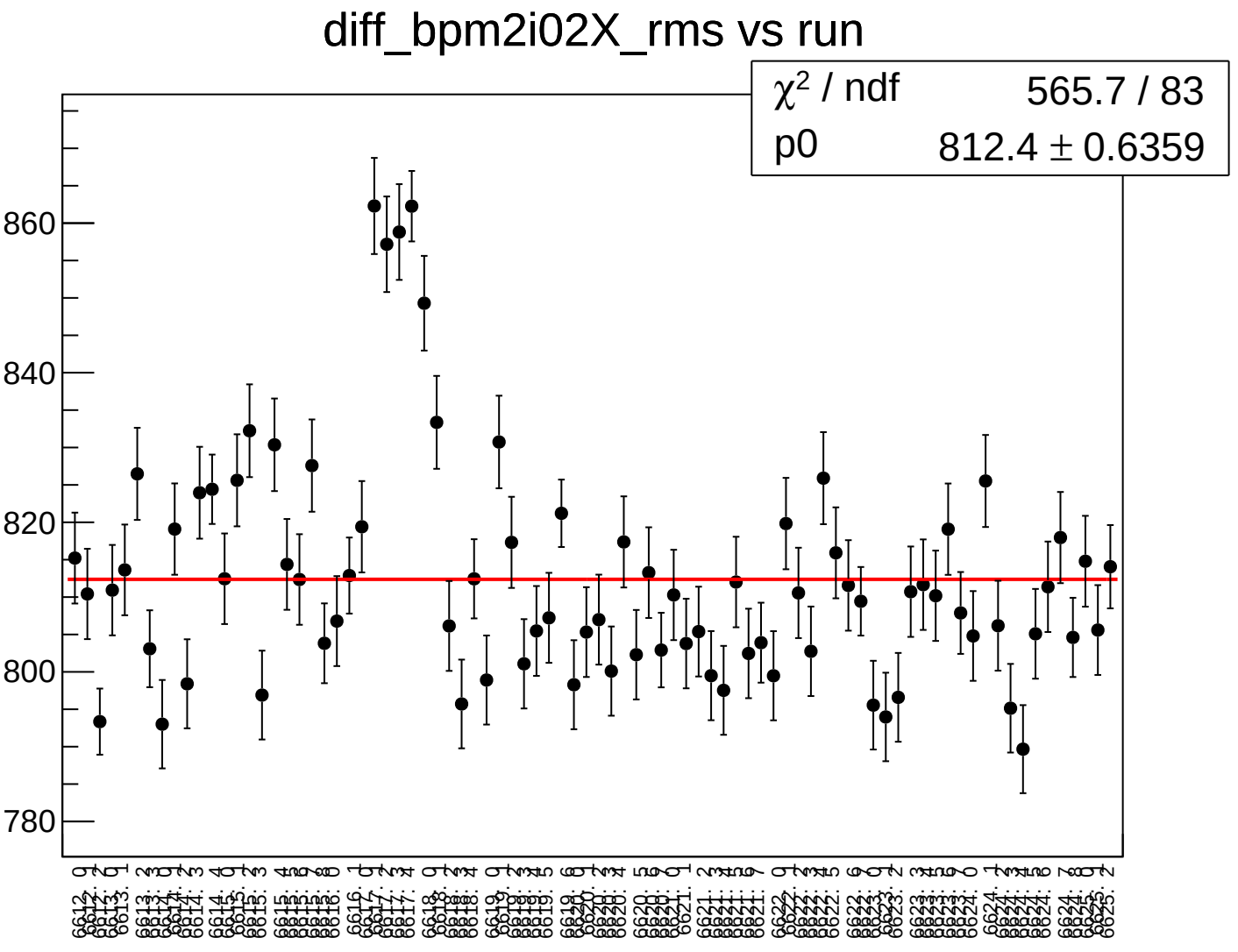

diff_bpm2i01Y_mean vs run
χ² / ndf 82.39 / 83
p0 0.2011 ± 0.869
pull
Entries 84
Mean 473.9
Std Dev 0

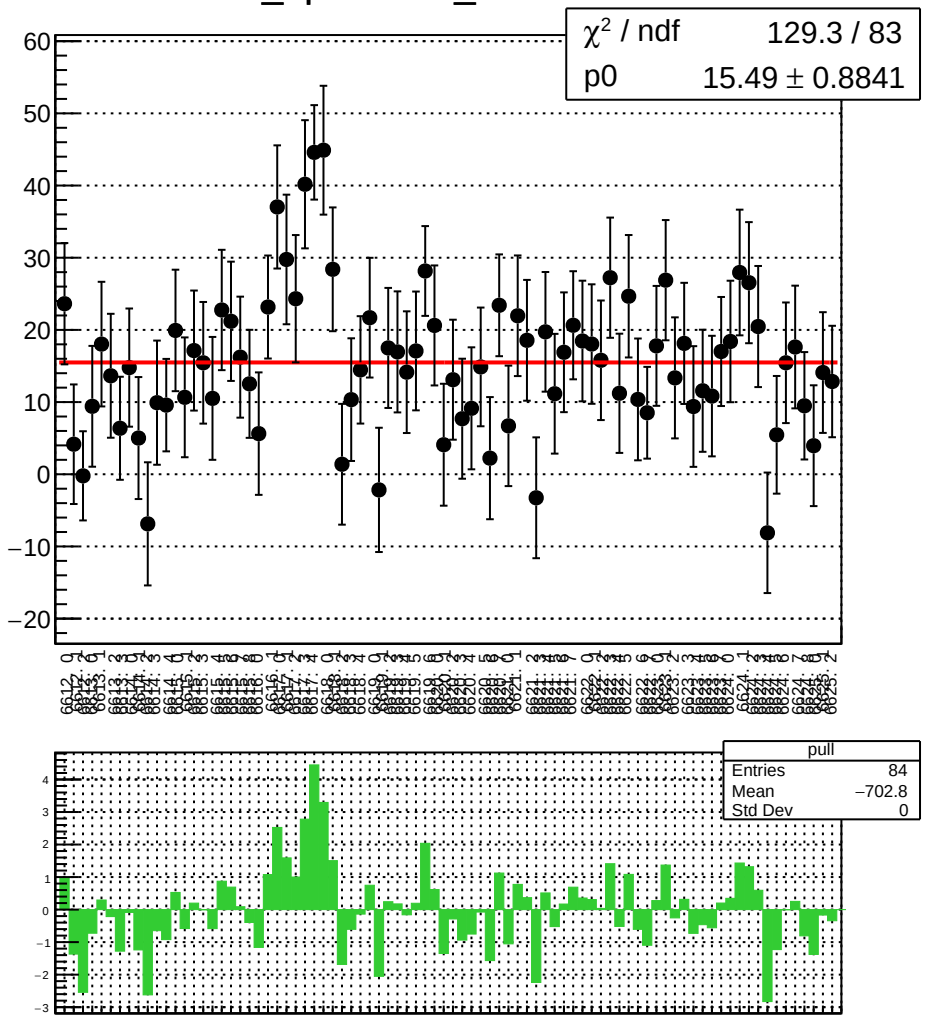

pull1D
Entries 84
Mean −0.004965
Std Dev 0.9903

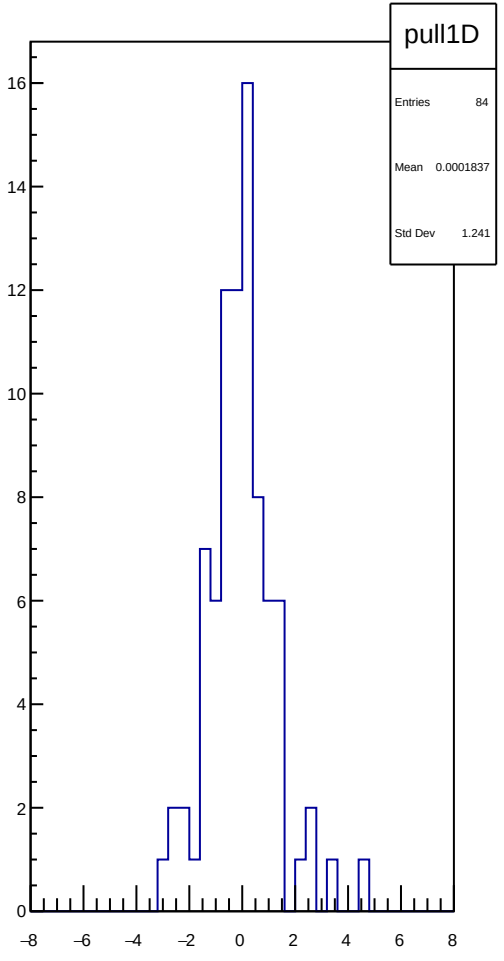

diff_bpm2i01Y_rms vs run
χ² / ndf 882.2 / 83
p0 784.9 ± 0.6145
860
840
820
800
780
760
740

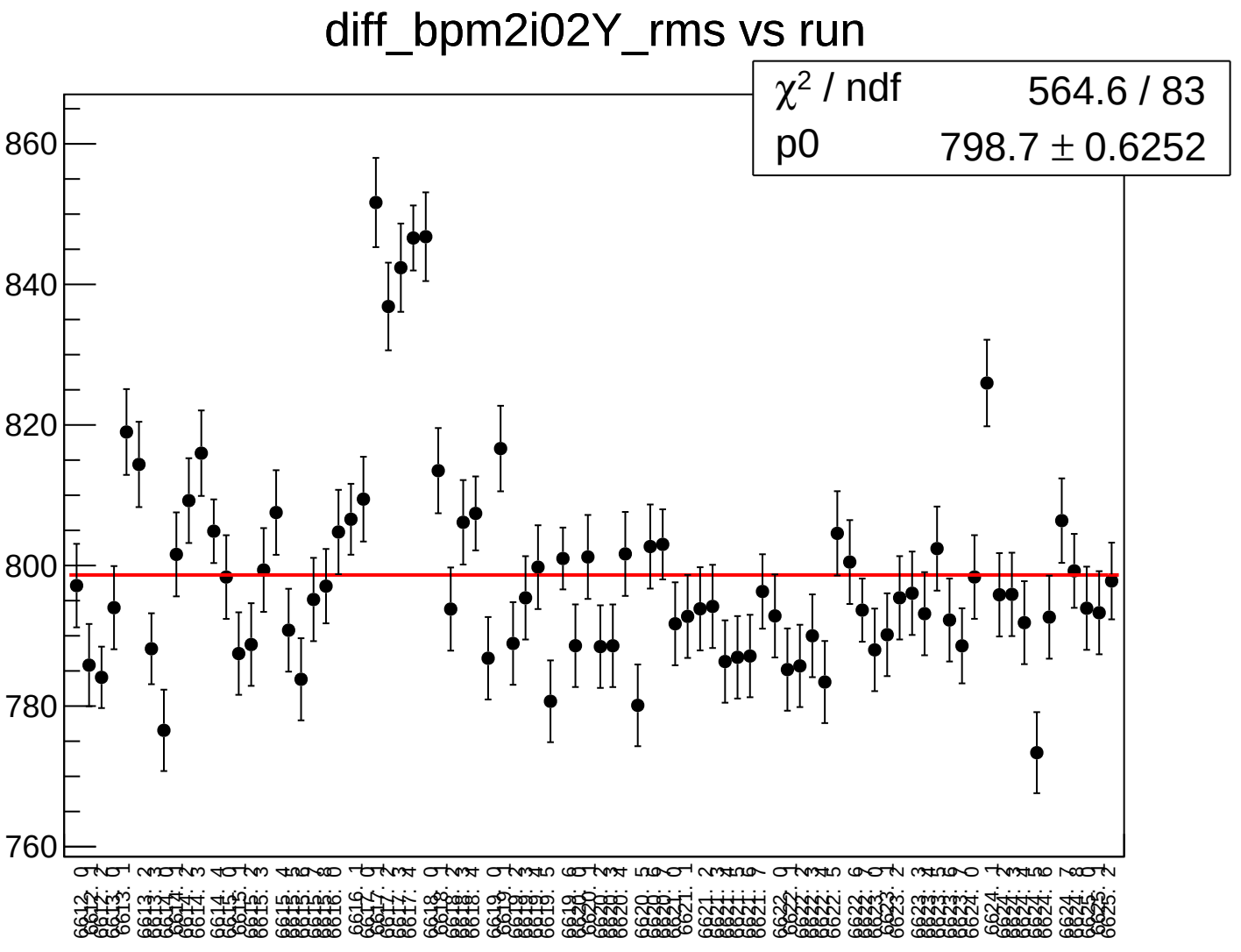

diff_bpm2i02X_mean vs run
χ² / ndf 105.1 / 83
p0 −7.061 ± 0.8993
pull
Entries 84
Mean 56.35
Std Dev 64.06

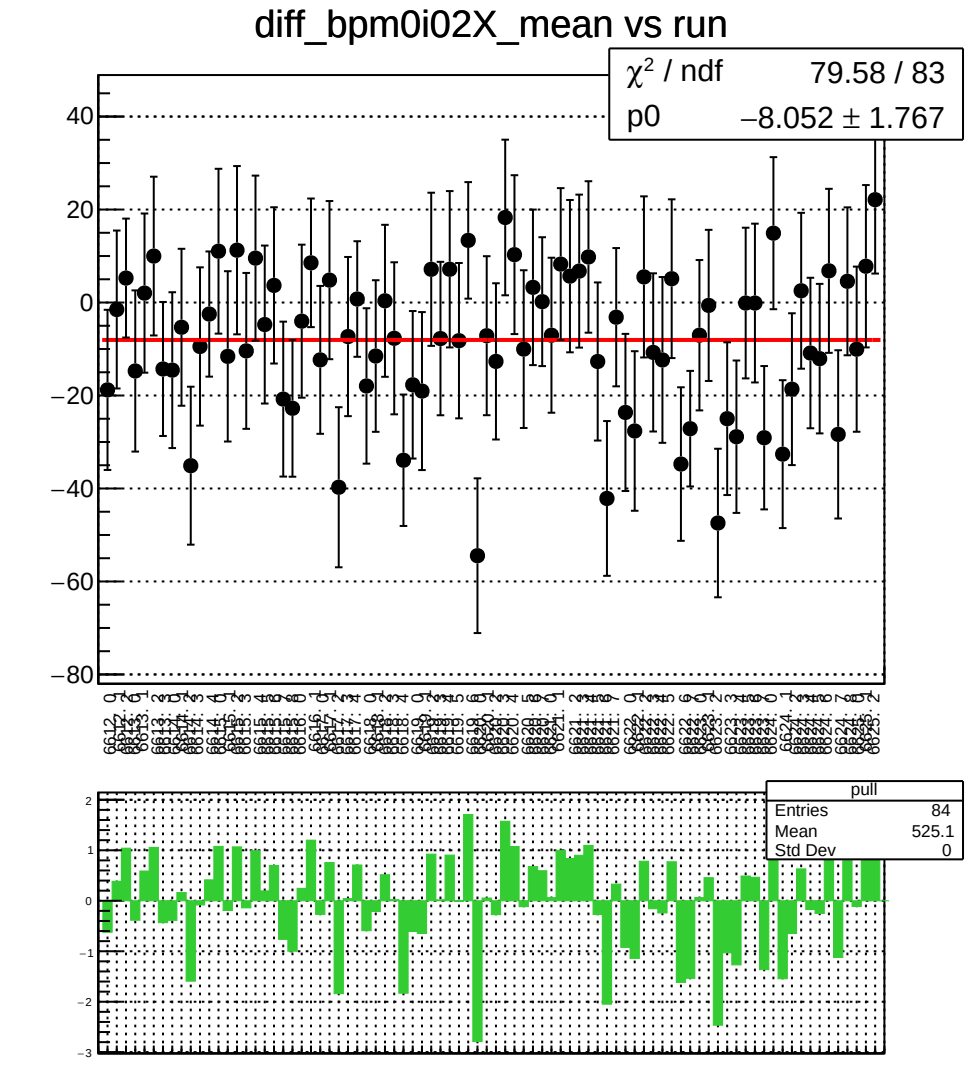

pull1D
Entries 84
Mean −0.01392
Std Dev 1.119

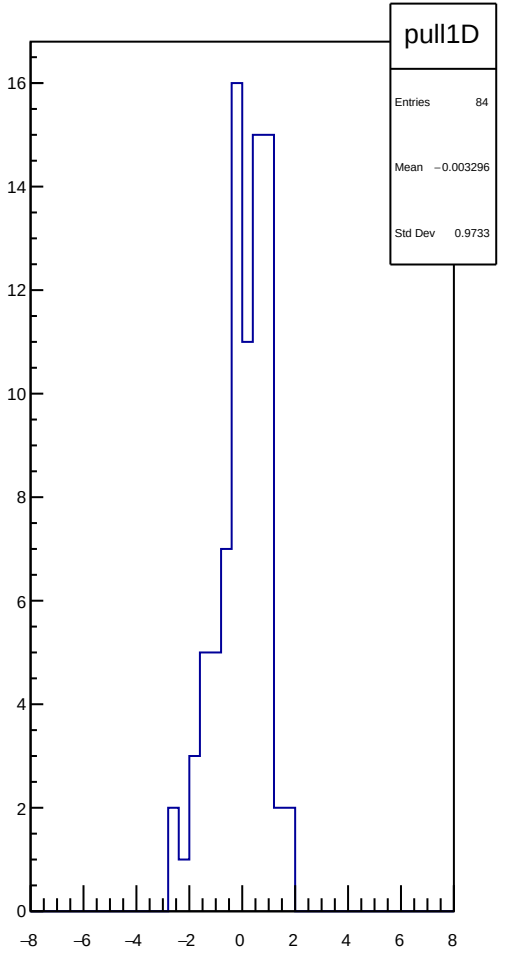

diff_bpm2i02X_rms vs run
χ² / ndf 565.7 / 83
p0 812.4 ± 0.6359
860
840
820
800
780

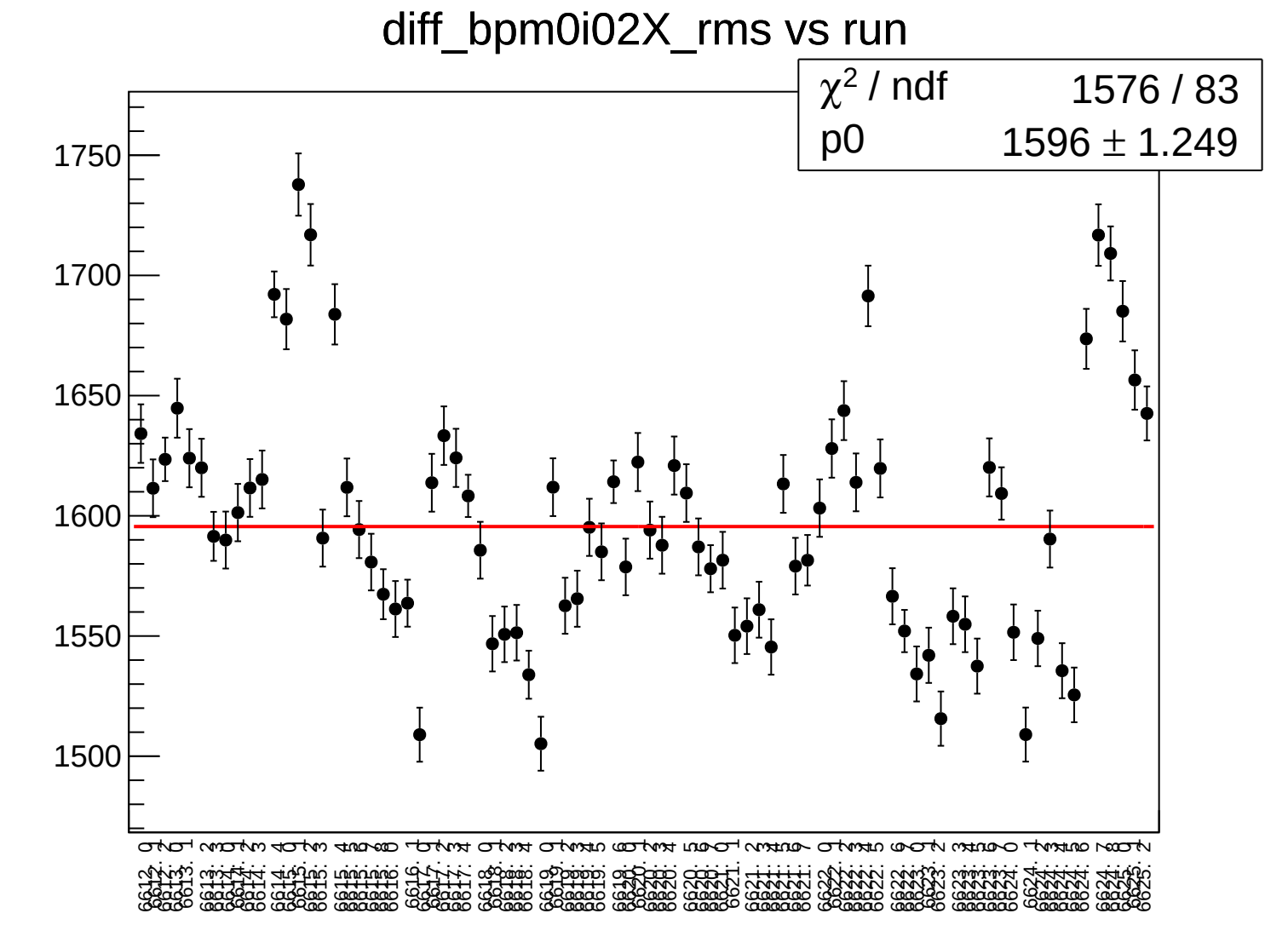

diff_bpm2i02Y_mean vs run
χ² / ndf 129.3 / 83
p0 15.49 ± 0.8841
pull
Entries 84
Mean −702.8
Std Dev 0

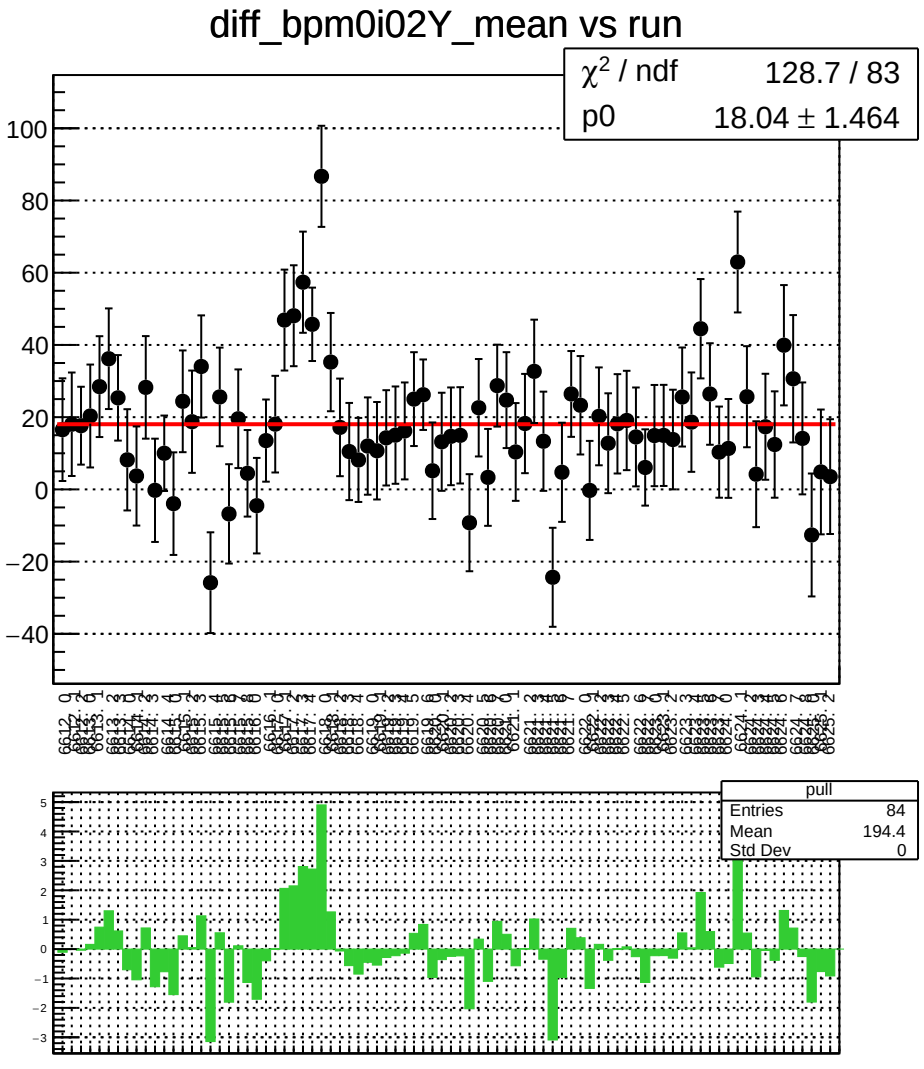

pull1D
Entries 84
Mean 0.0001837
Std Dev 1.241

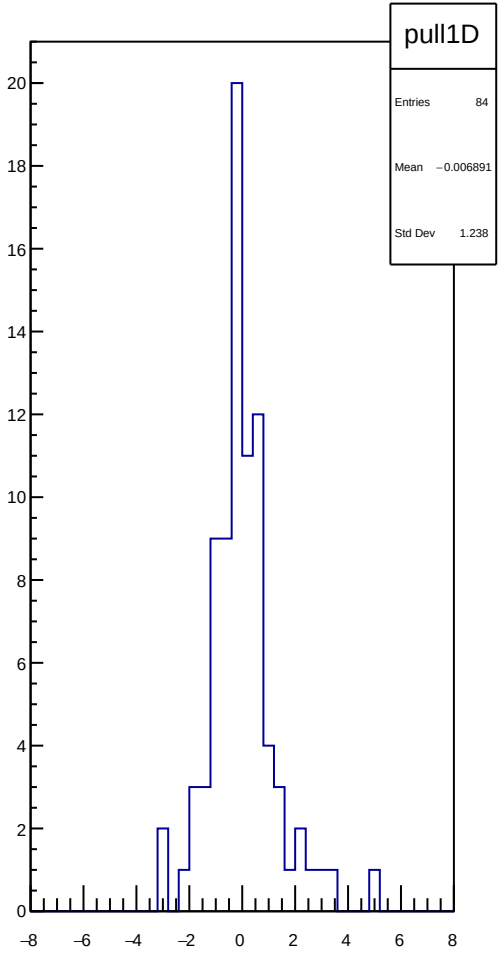

diff_bpm2i02Y_rms vs run
χ² / ndf 564.6 / 83
p0 798.7 ± 0.6252
860
840
820
800
780
760

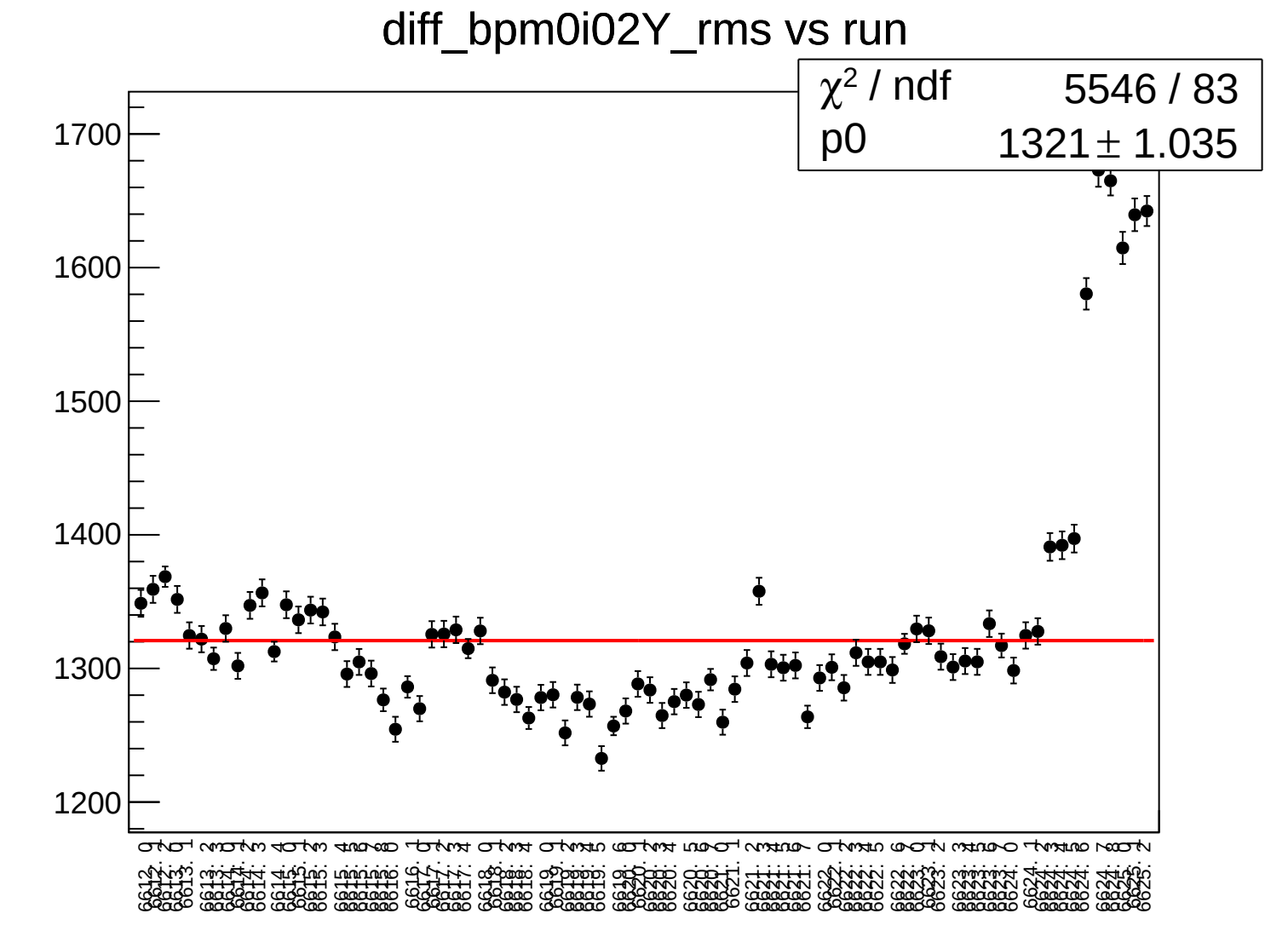

diff_bpm0i02X_mean vs run
χ² / ndf 79.58 / 83
p0 −8.052 ± 1.767
pull
Entries 84
Mean 525.1
Std Dev 0

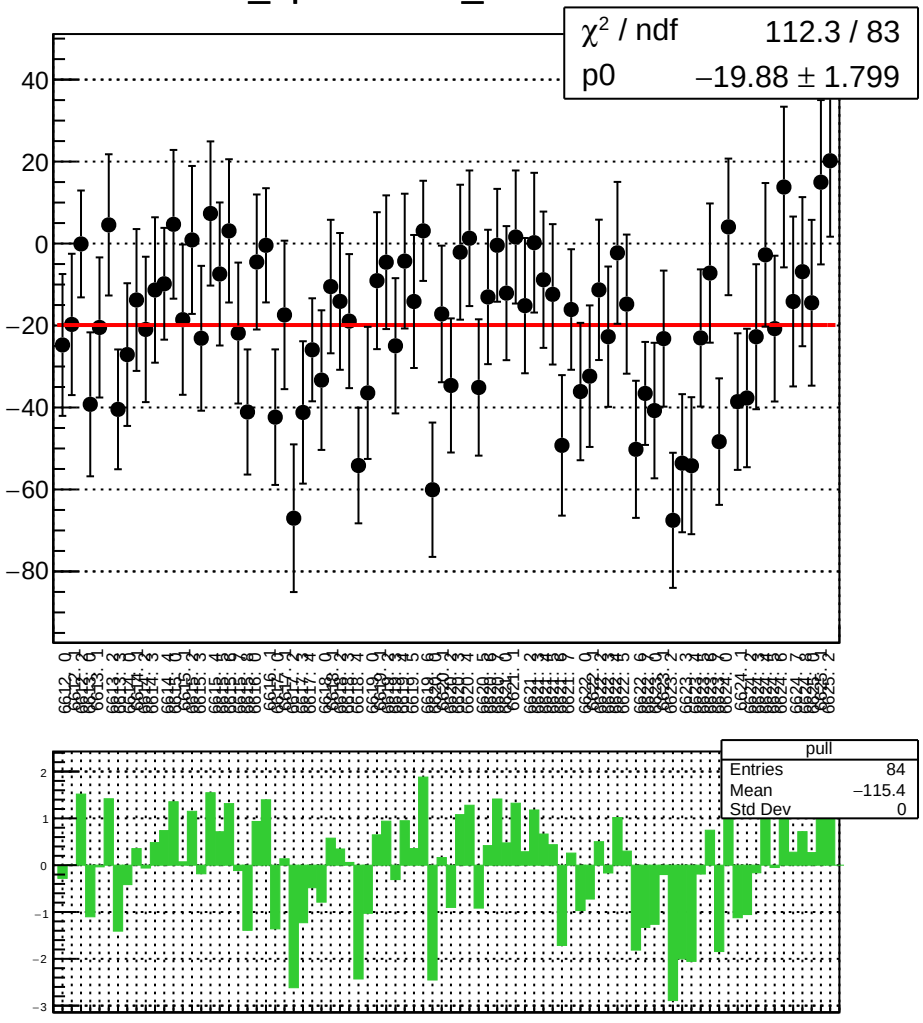

pull1D
Entries 84
Mean −0.003296
Std Dev 0.9733

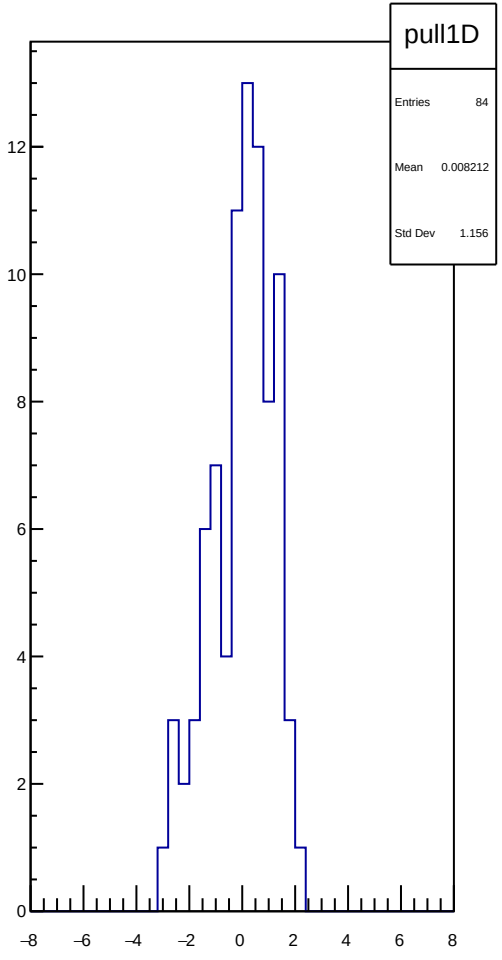

diff_bpm0i02X_rms vs run
χ² / ndf 1576 / 83
p0 1596 ± 1.249
1750
1700
1650
1600
1550
1500

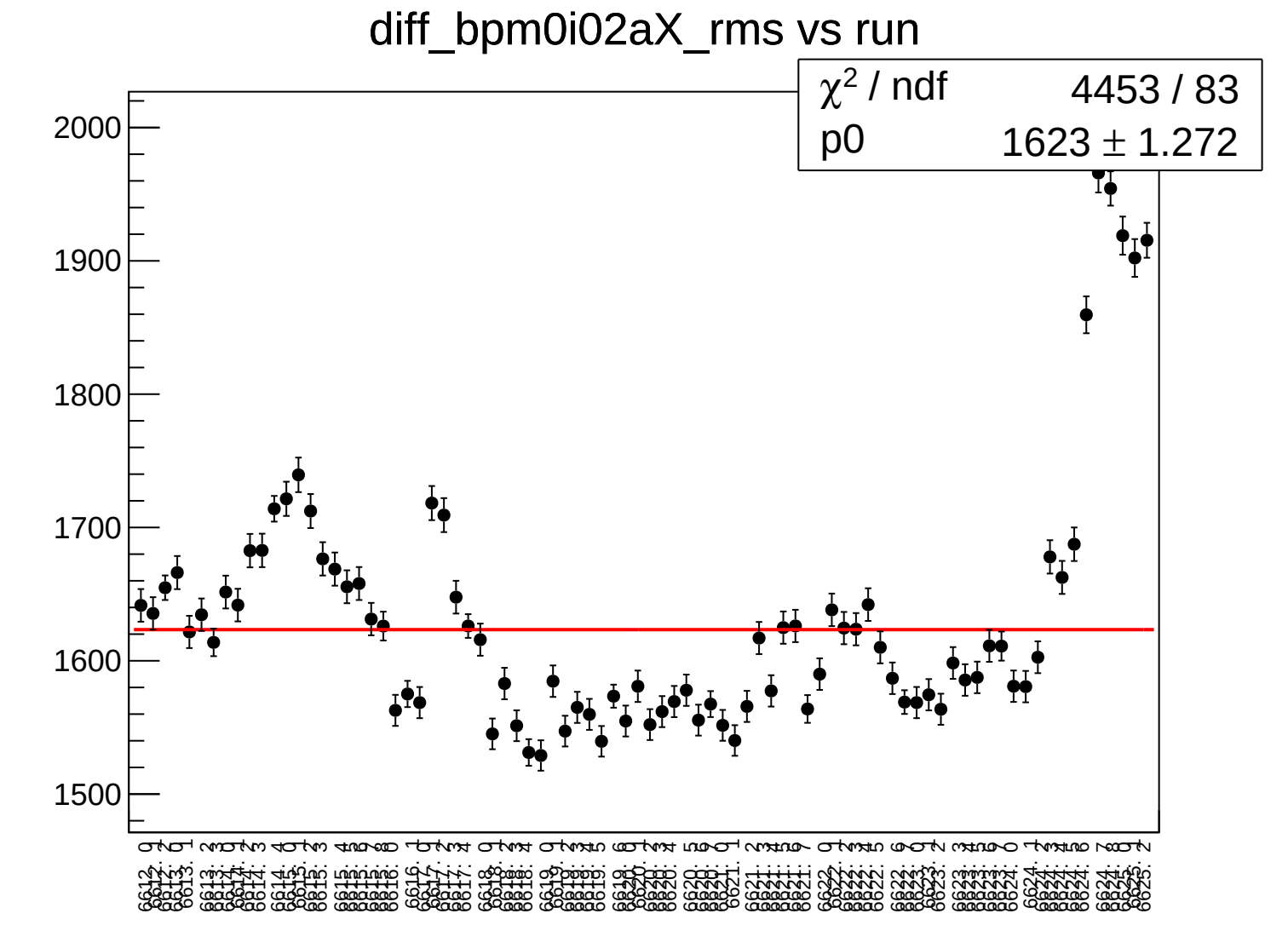

diff_bpm0i02Y_mean vs run
χ² / ndf 128.7 / 83
p0 18.04 ± 1.464
pull
Entries 84
Mean 194.4
Std Dev 0

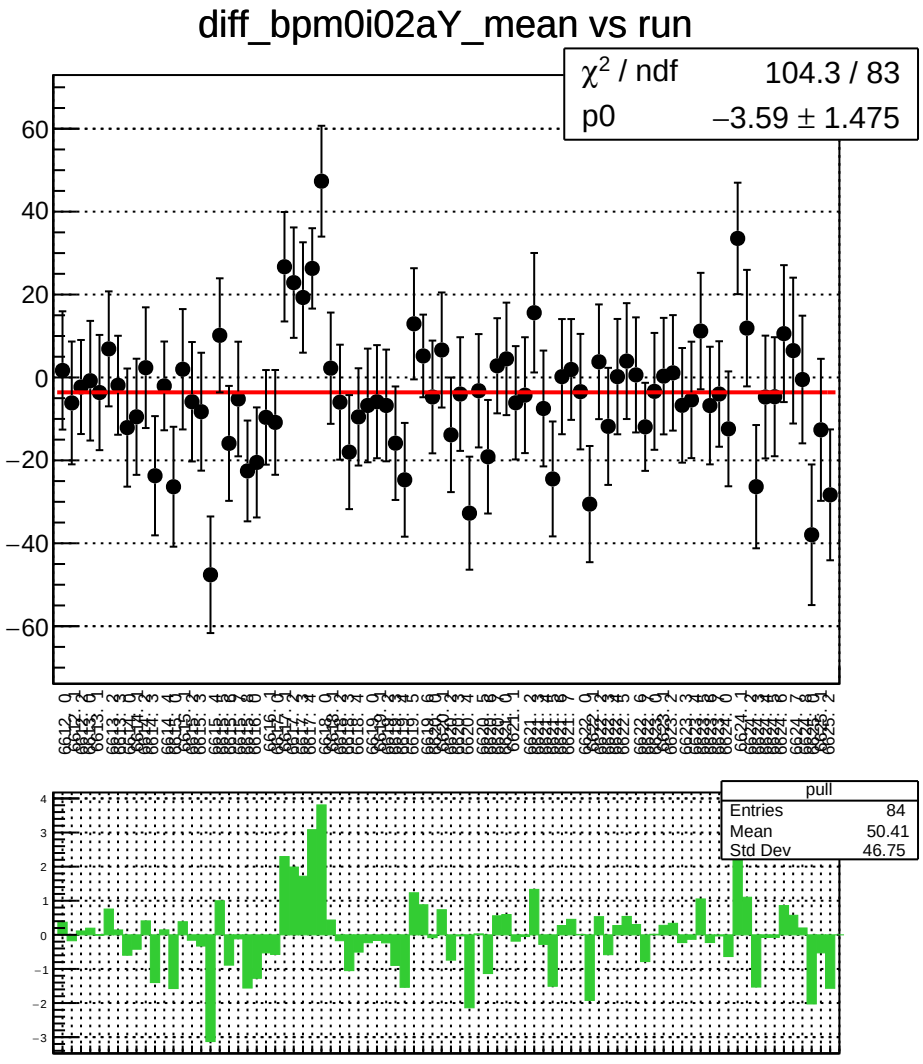

pull1D
Entries 84
Mean −0.006891
Std Dev 1.238

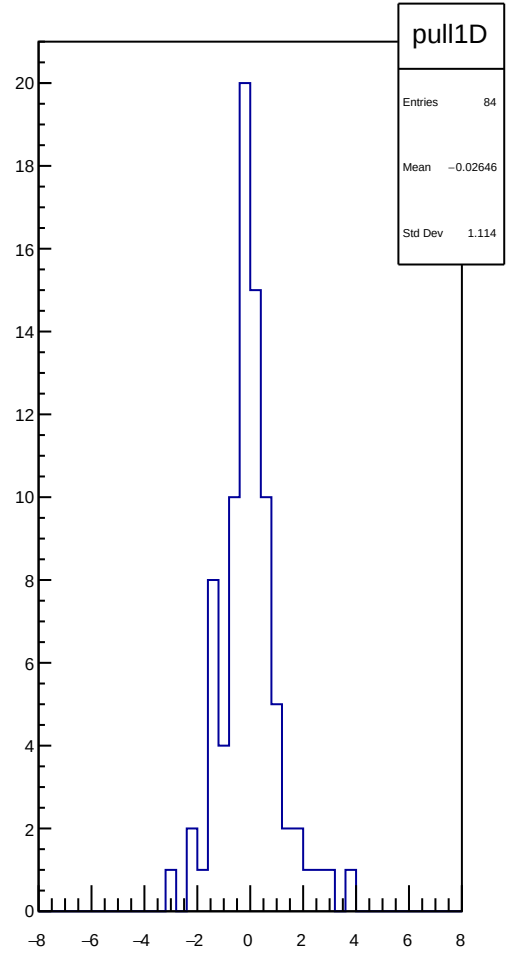

diff_bpm0i02Y_rms vs run
χ² / ndf 5546 / 83
p0 1321 ± 1.035
1700
1600
1500
1400
1300
1200

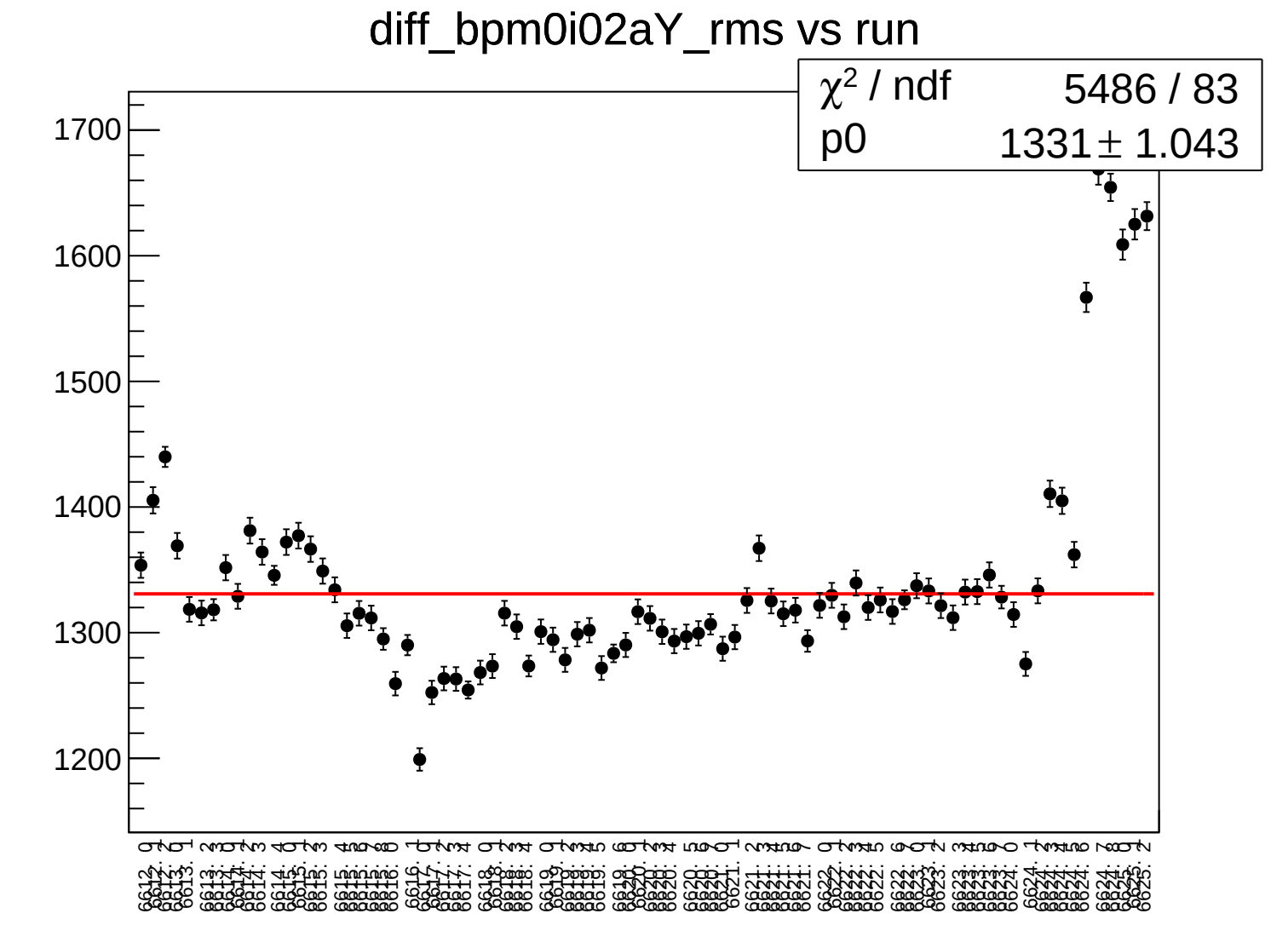

diff_bpm0i02aX_mean vs run
χ² / ndf 112.3 / 83
p0 −19.88 ± 1.799
pull
Entries 84
Mean −115.4
Std Dev 0

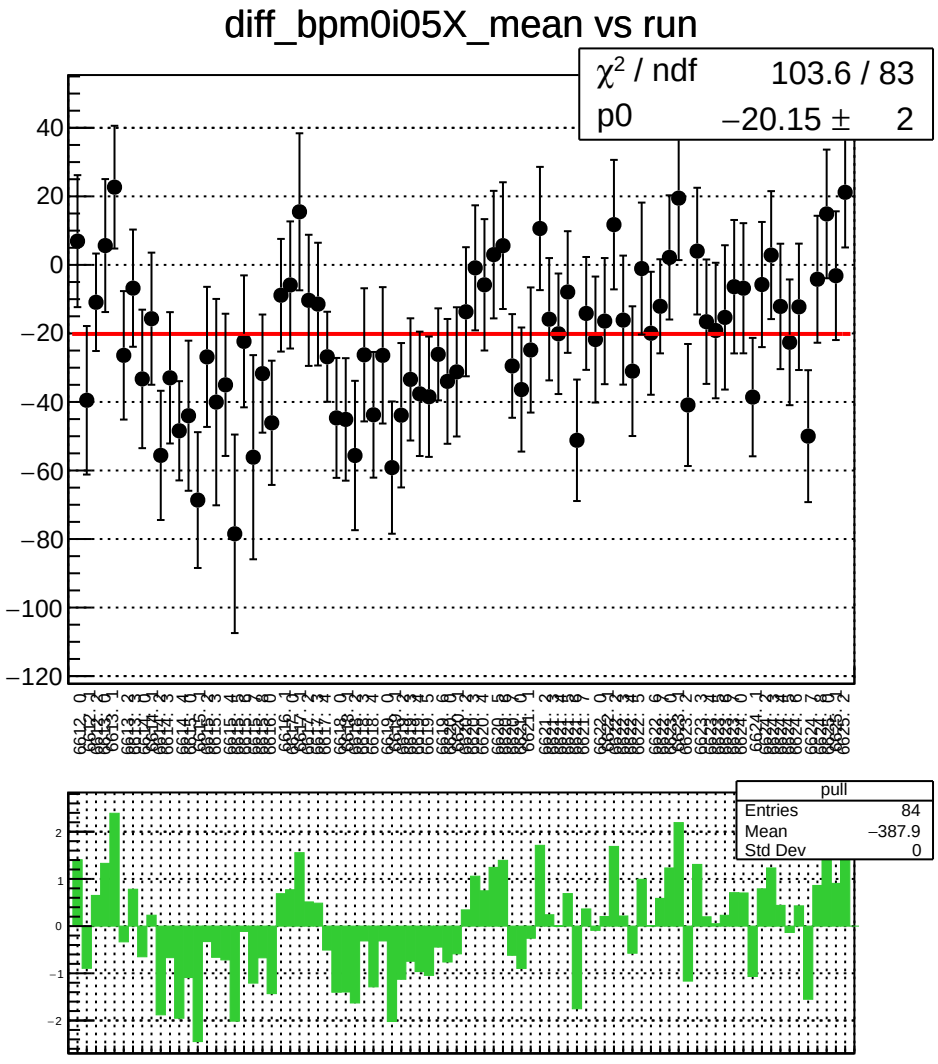

pull1D
Entries 84
Mean 0.008212
Std Dev 1.156

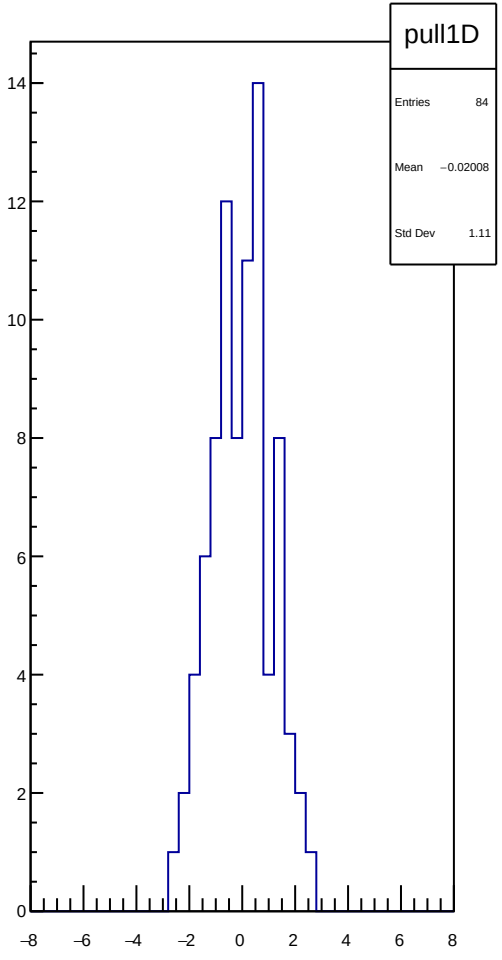

diff_bpm0i02aX_rms vs run
χ² / ndf 4453 / 83
p0 1623 ± 1.272
2000
1900
1800
1700
1600
1500

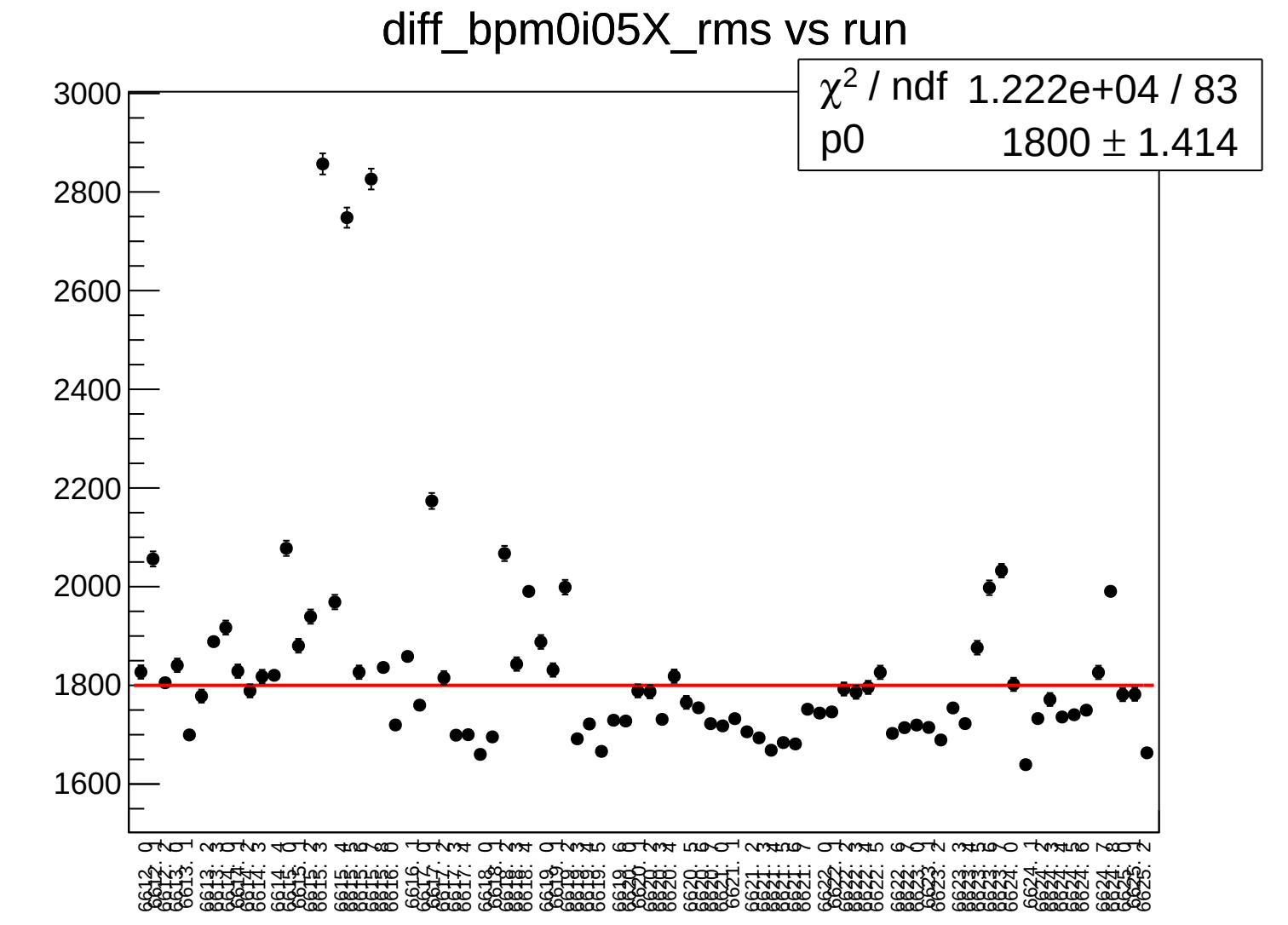

diff_bpm0i02aY_mean vs run
χ² / ndf 104.3 / 83
p0 −3.59 ± 1.475
pull
Entries 84
Mean 50.41
Std Dev 46.75

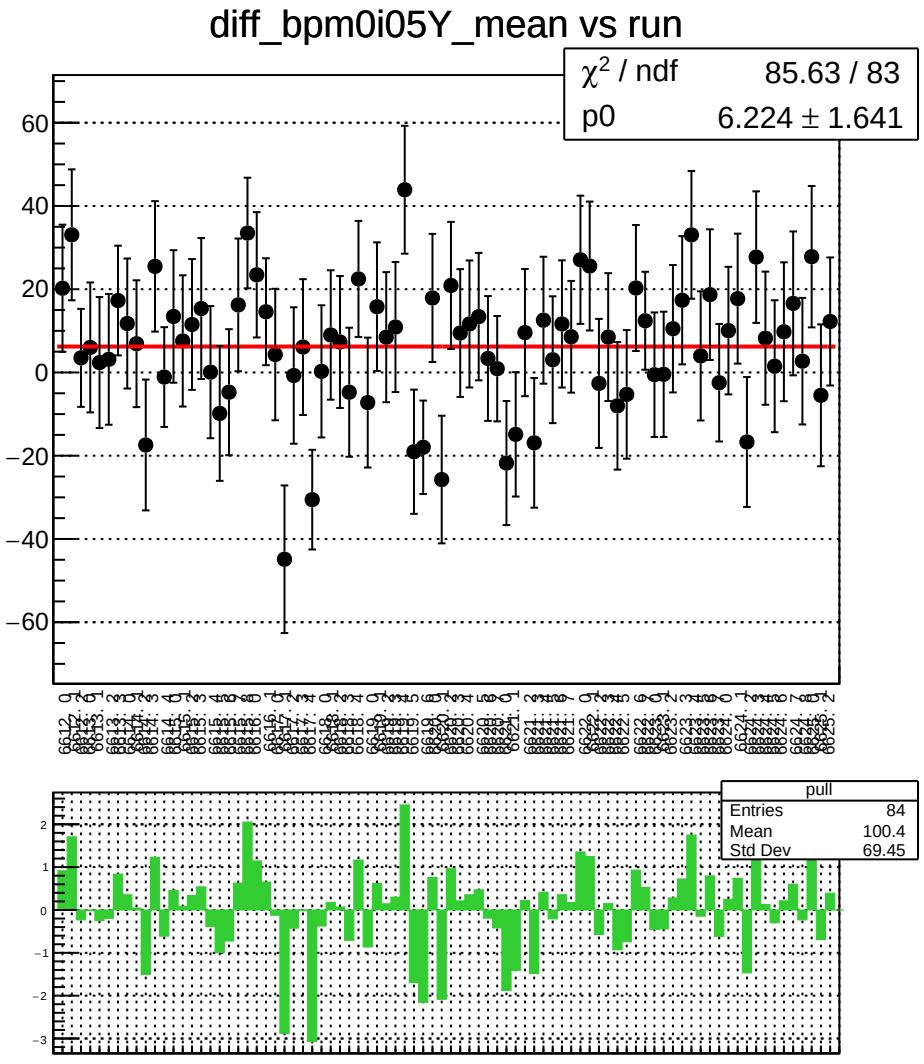

pull1D
Entries 84
Mean −0.02646
Std Dev 1.114

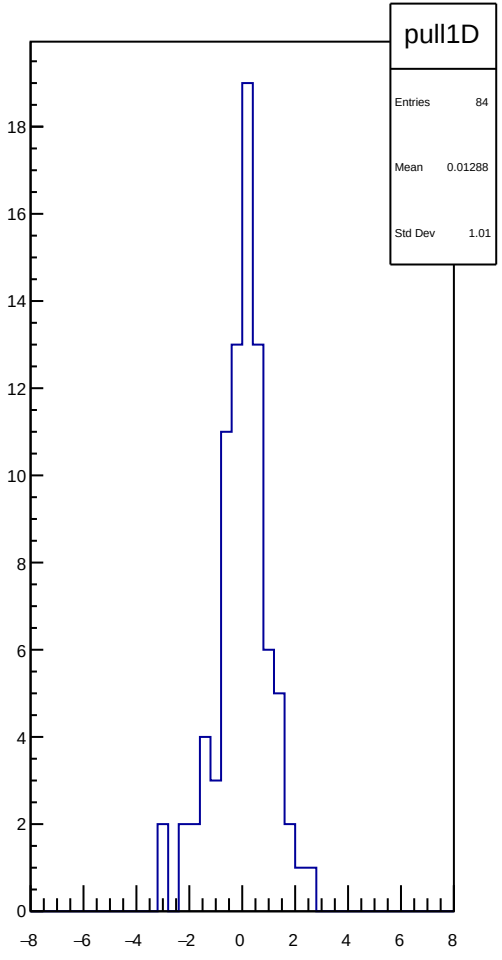

diff_bpm0i02aY_rms vs run
χ² / ndf 5486 / 83
p0 1331 ± 1.043
1700
1600
1500
1400
1300
1200

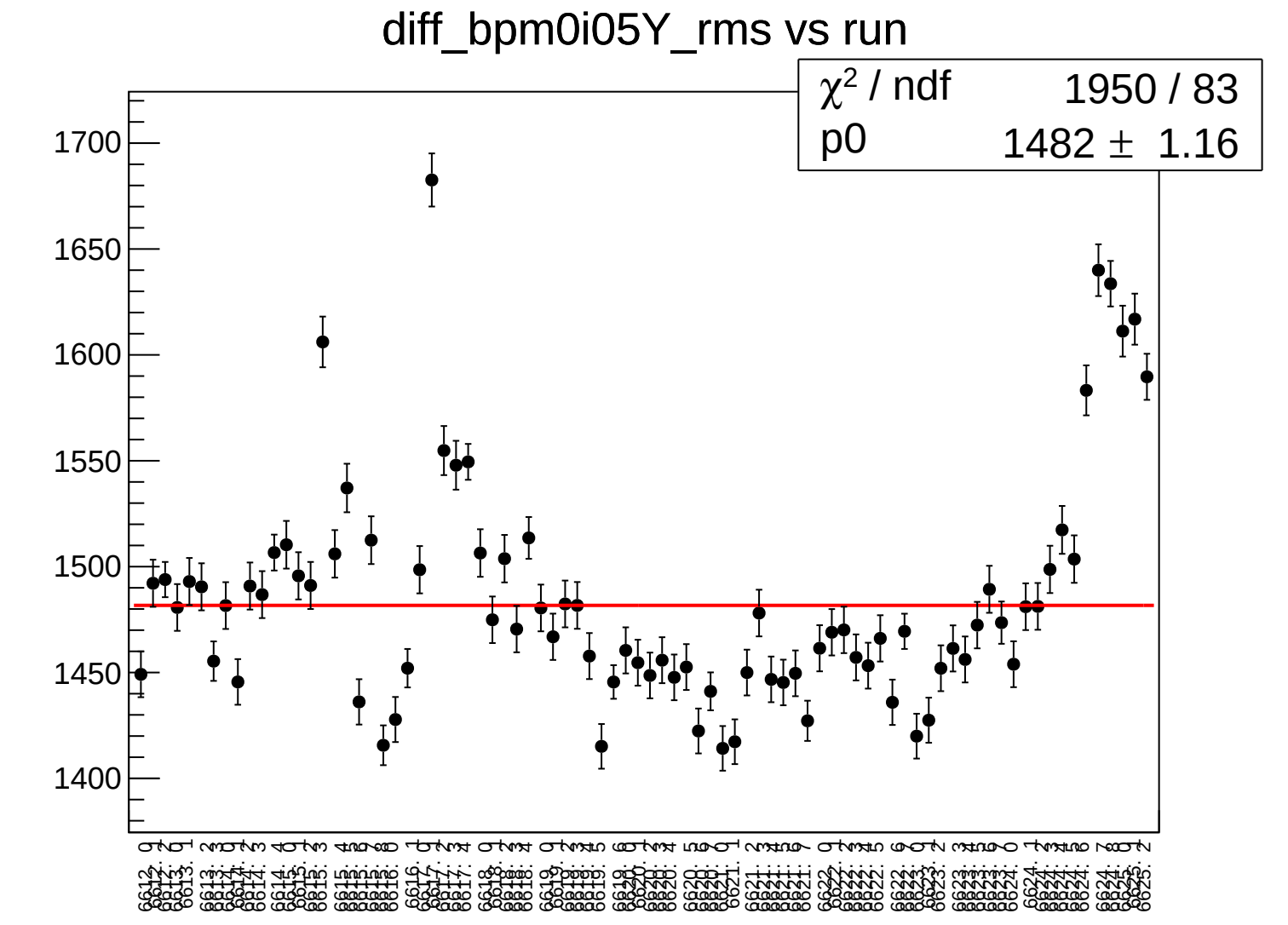

diff_bpm0i05X_mean vs run
χ² / ndf 103.6 / 83
p0 −20.15 ± 2
pull
Entries 84
Mean −387.9
Std Dev 0

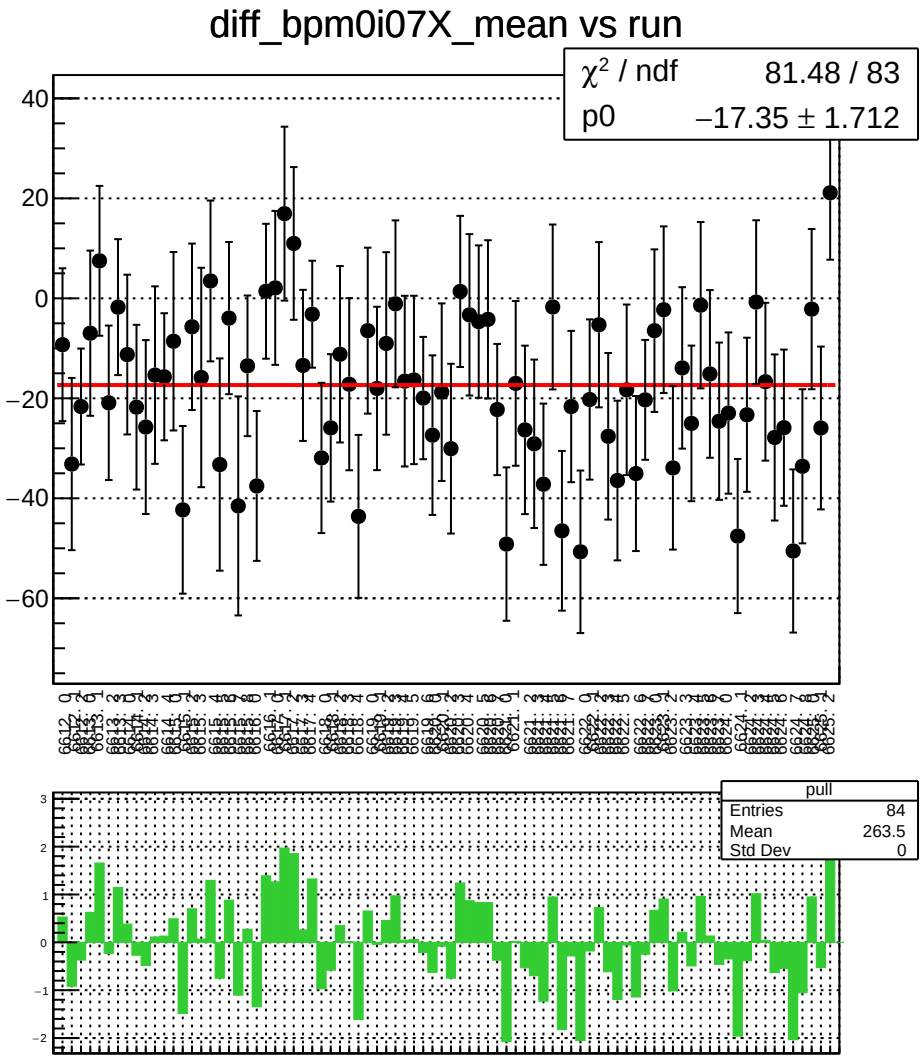

pull1D
Entries 84
Mean −0.02008
Std Dev 1.11

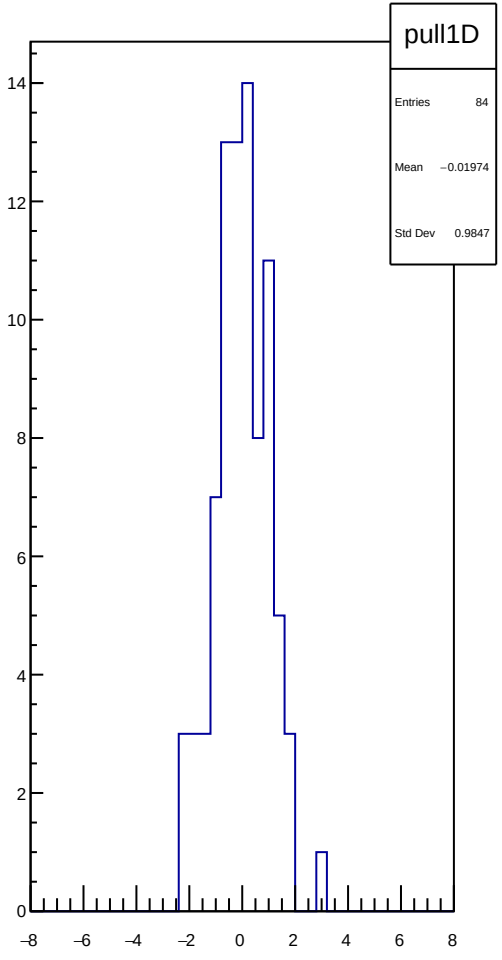

diff_bpm0i05X_rms vs run
χ² / ndf 1.222e+04 / 83
p0 1800 ± 1.414
3000
2800
2600
2400
2200
2000
1800
1600

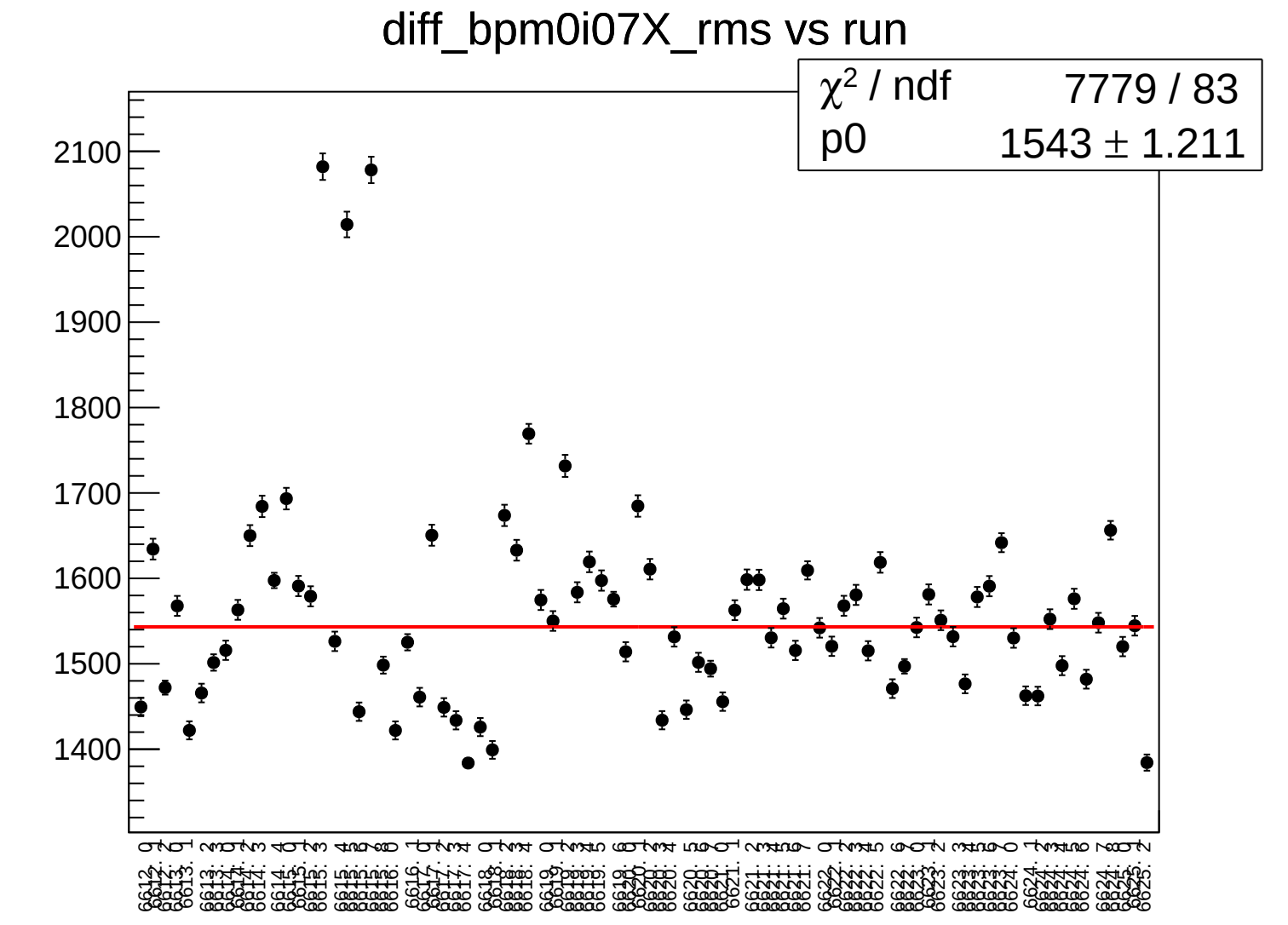

diff_bpm0i05Y_mean vs run
χ^2 / ndf 85.63 / 83
p0 6.224 ± 1.641
pull
Entries 84
Mean 100.4
Std Dev 69.45

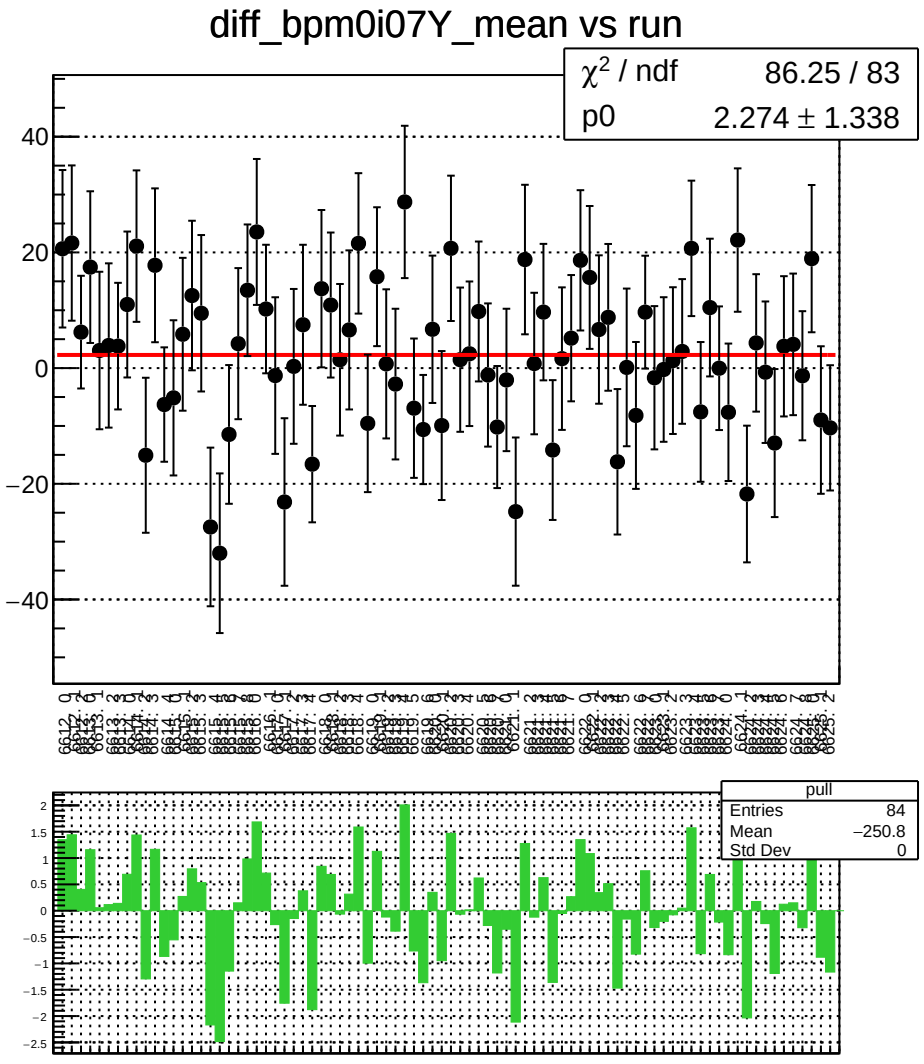

pull1D
Entries 84
Mean 0.01288
Std Dev 1.01

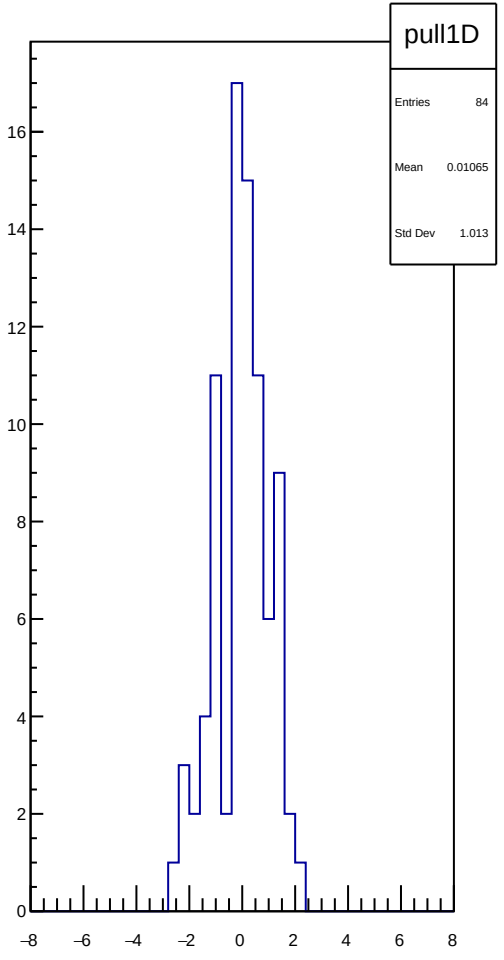

diff_bpm0i05Y_rms vs run
χ² / ndf 1950 / 83
p0 1482 ± 1.16
1700
1650
1600
1550
1500
1450
1400

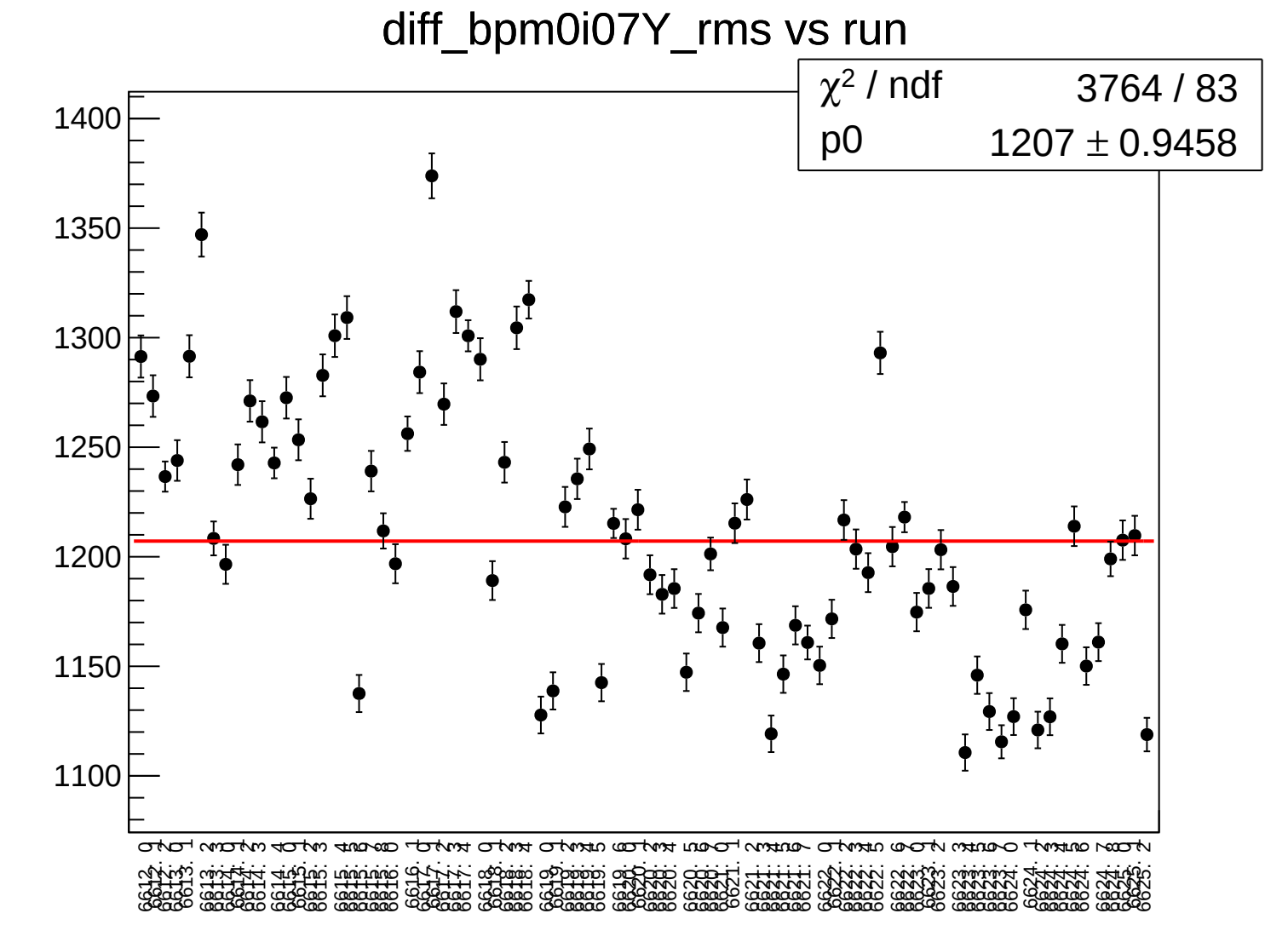

diff_bpm0i07X_mean vs run
χ² / ndf 81.48 / 83
p0 −17.35 ± 1.712
pull
Entries 84
Mean 263.5
Std Dev 0

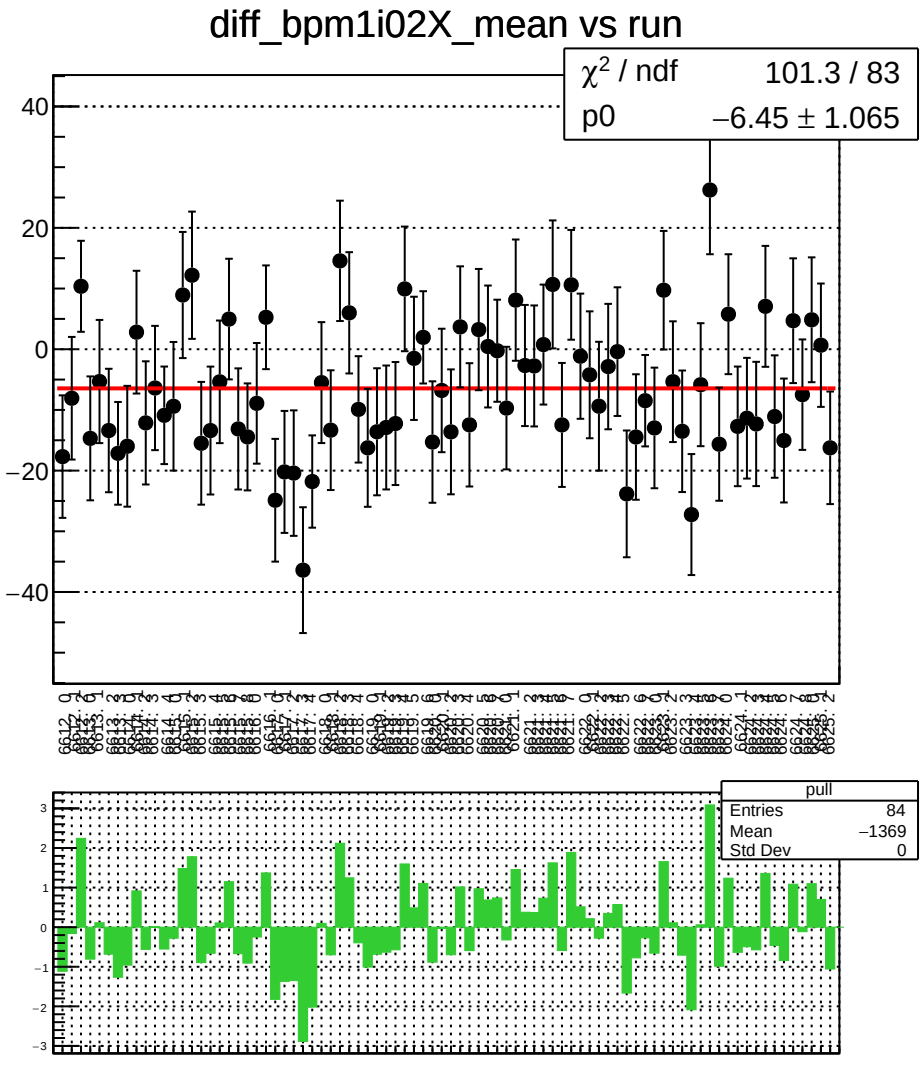

pull1D
Entries 84
Mean −0.01974
Std Dev 0.9847

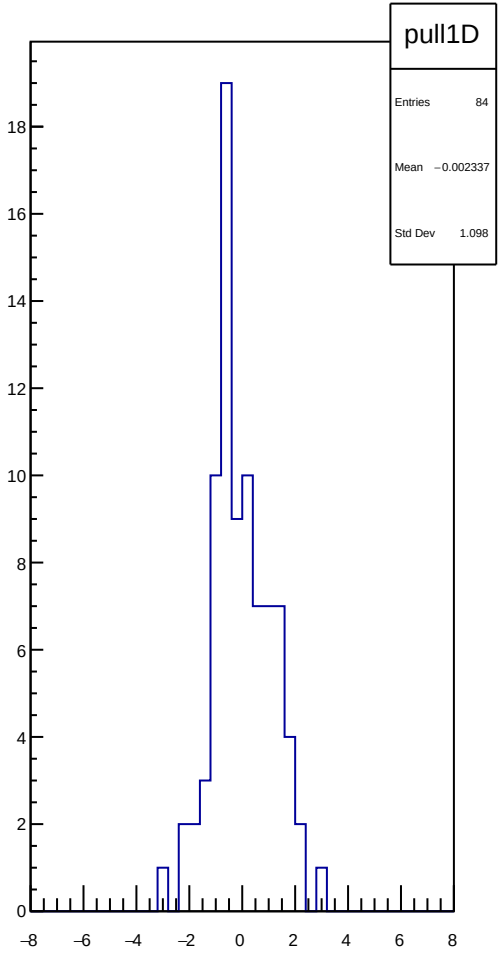

diff_bpm0i07X_rms vs run
χ² / ndf 7779 / 83
p0 1543 ± 1.211
2100
2000
1900
1800
1700
1600
1500
1400

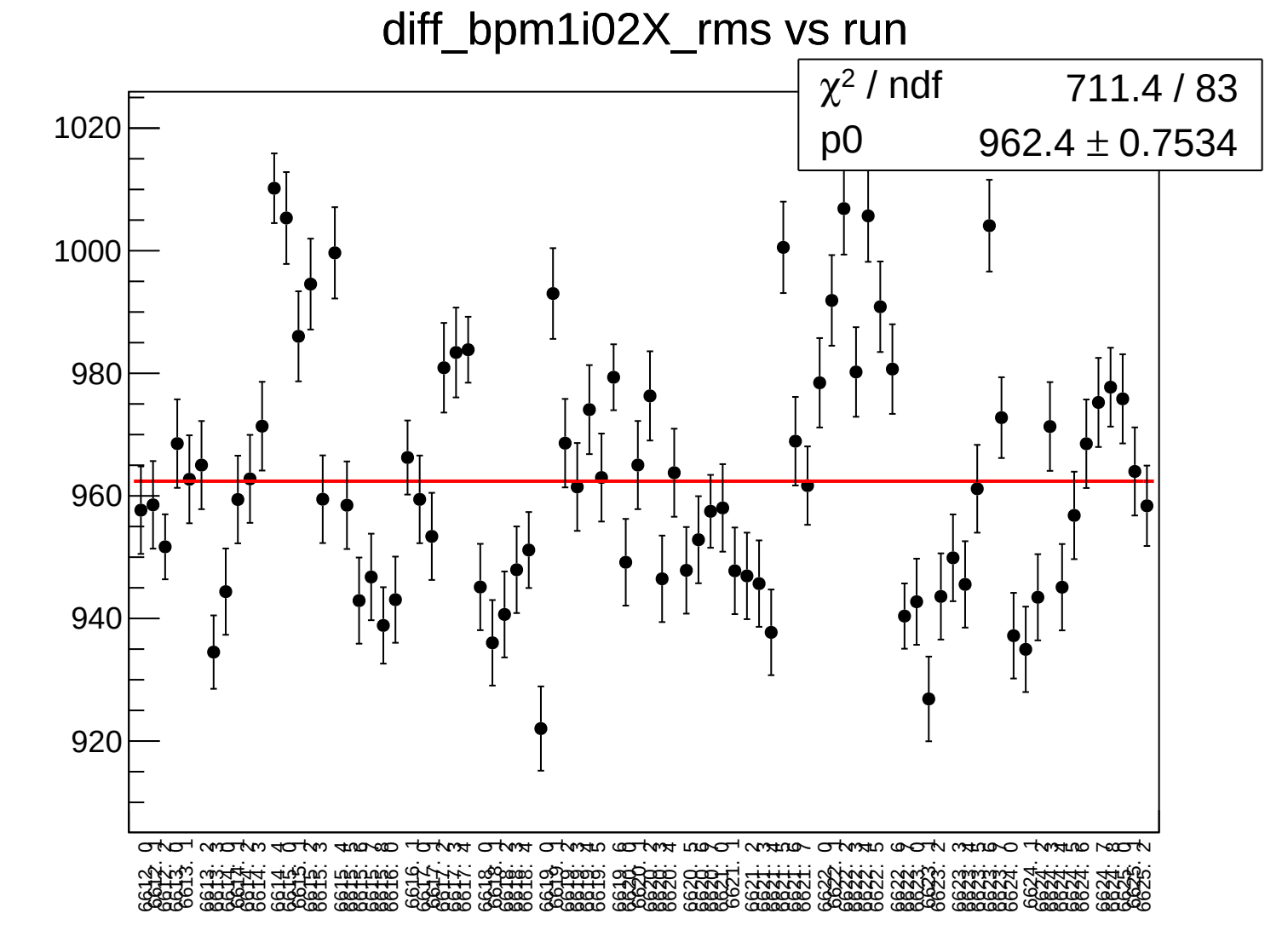

diff_bpm0i07Y_mean vs run
χ² / ndf 86.25 / 83
p0 2.274 ± 1.338
pull
Entries 84
Mean −250.8
Std Dev 0

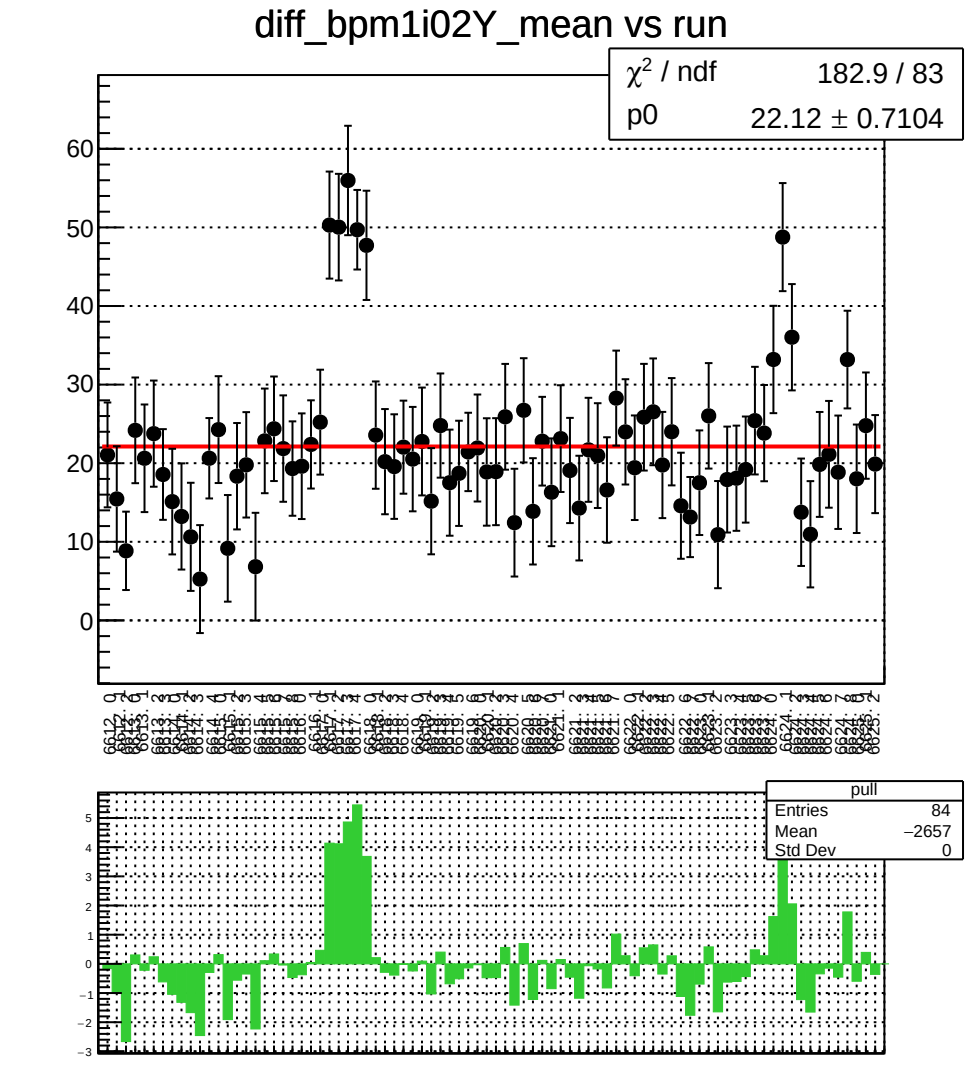

pull1D
Entries 84
Mean 0.01065
Std Dev 1.013

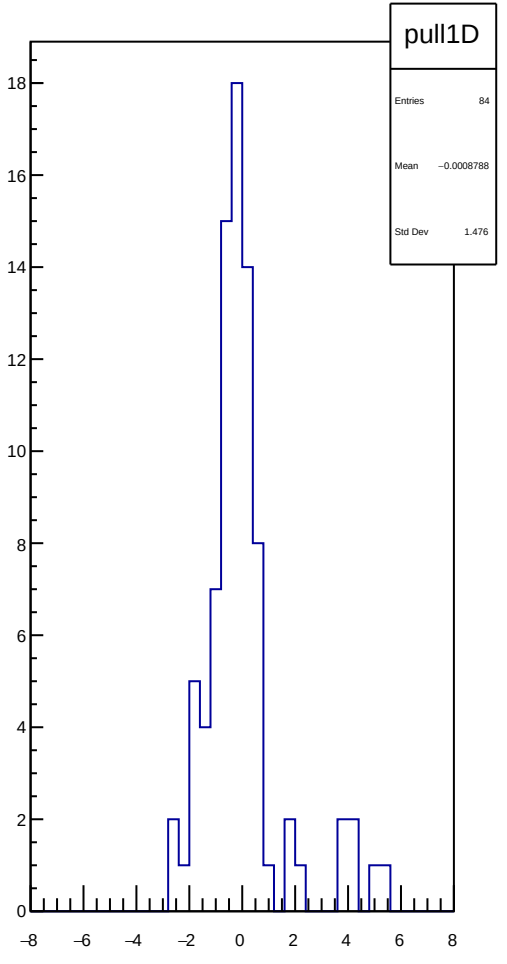

diff_bpm0i07Y_rms vs run
χ² / ndf 3764 / 83
p0 1207 ± 0.9458
1400
1350
1300
1250
1200
1150
1100

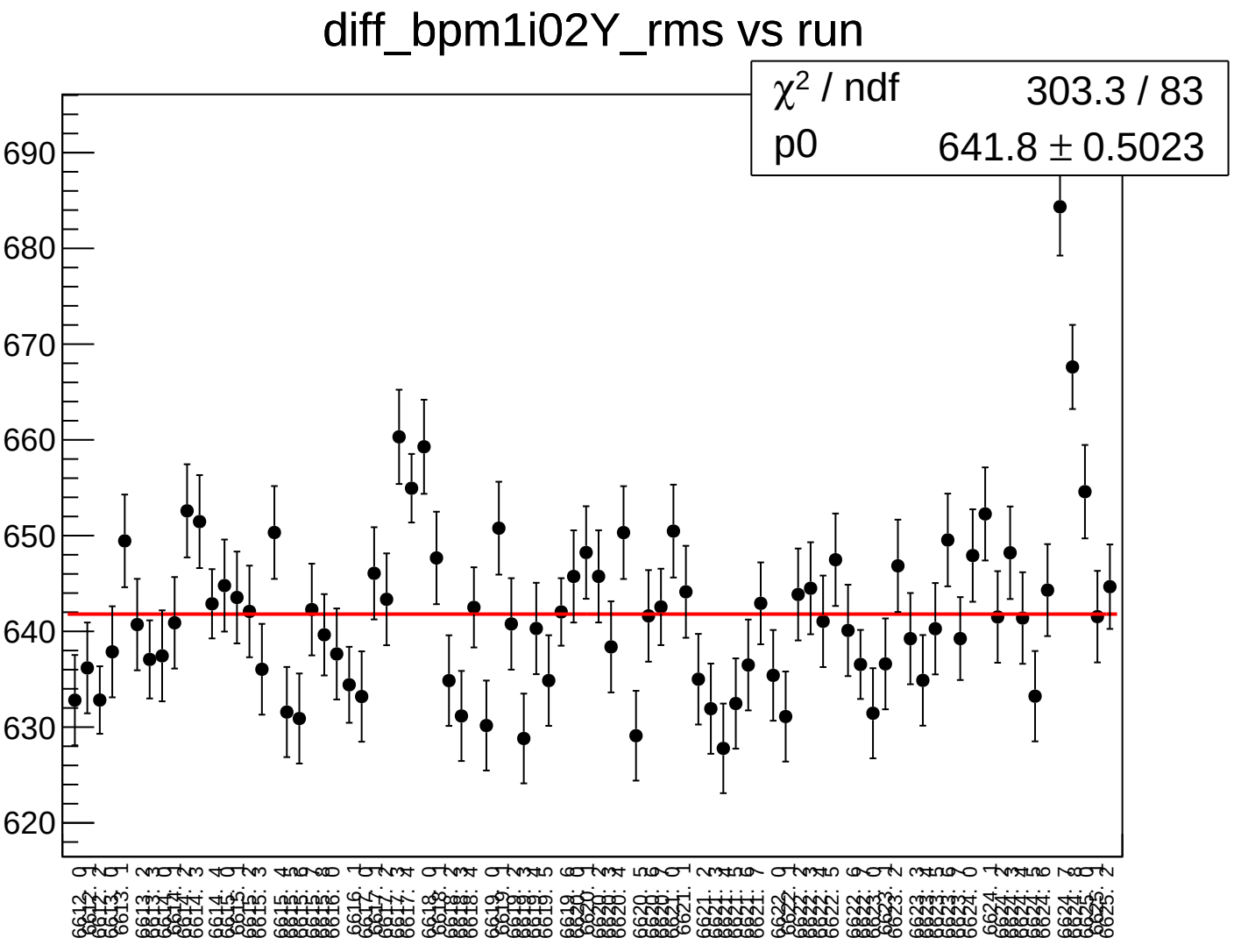

diff_bpm1i02X_mean vs run
χ² / ndf 101.3 / 83
p0 −6.45 ± 1.065
pull
Entries 84
Mean −1369
Std Dev 0

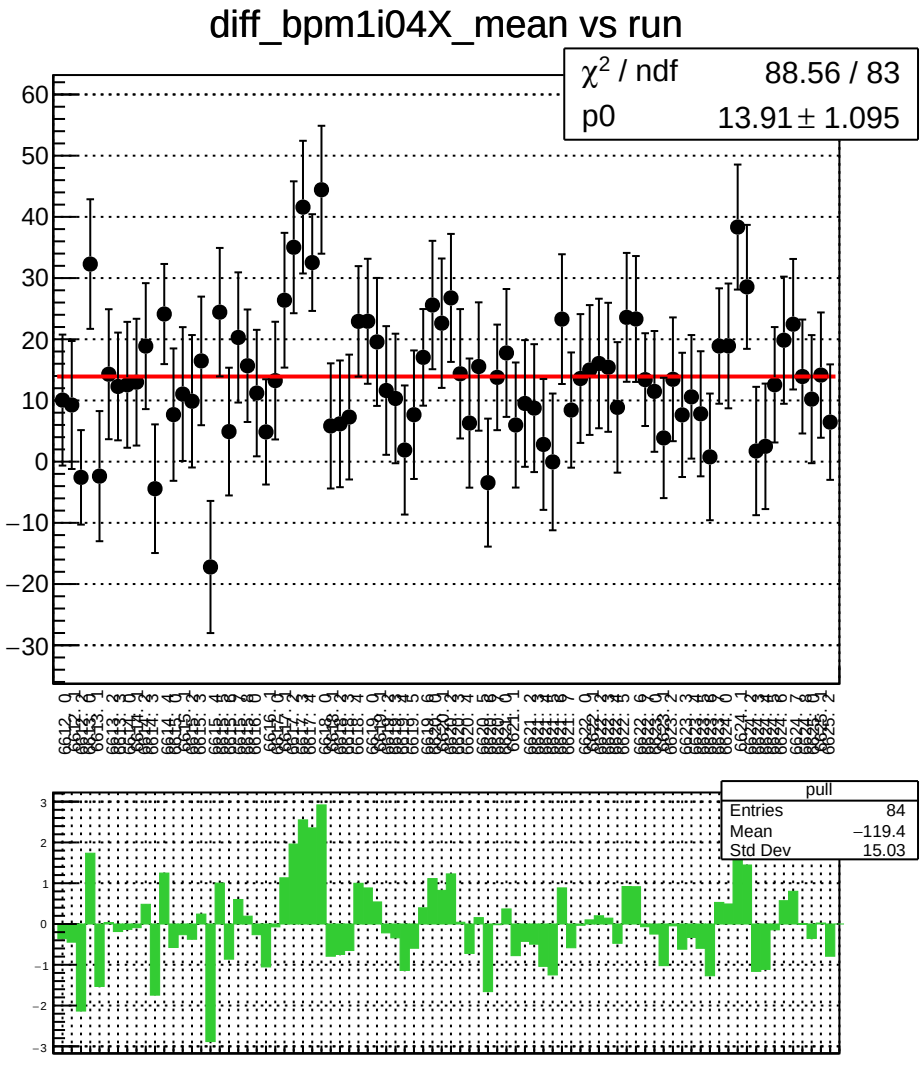

pull1D
Entries 84
Mean −0.002337
Std Dev 1.098

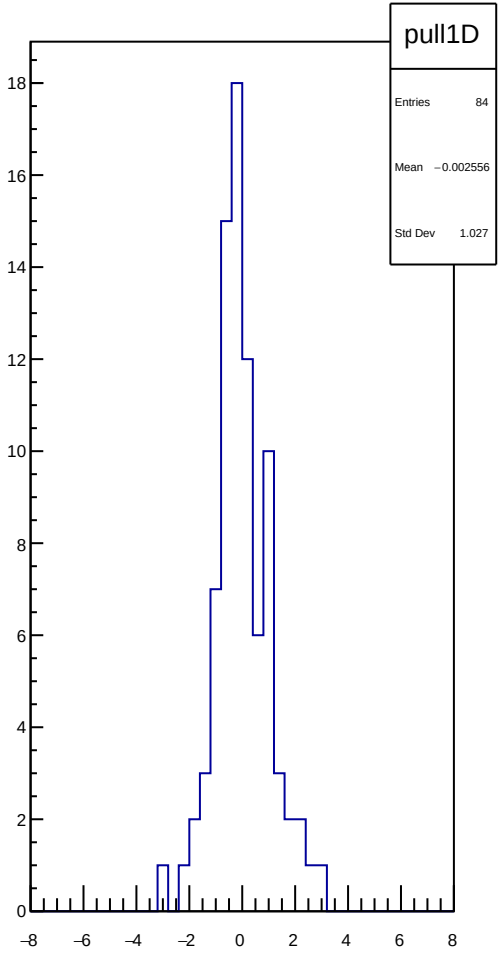

diff_bpm1i02X_rms vs run
χ² / ndf 711.4 / 83
p0 962.4 ± 0.7534
1020
1000
980
960
940
920

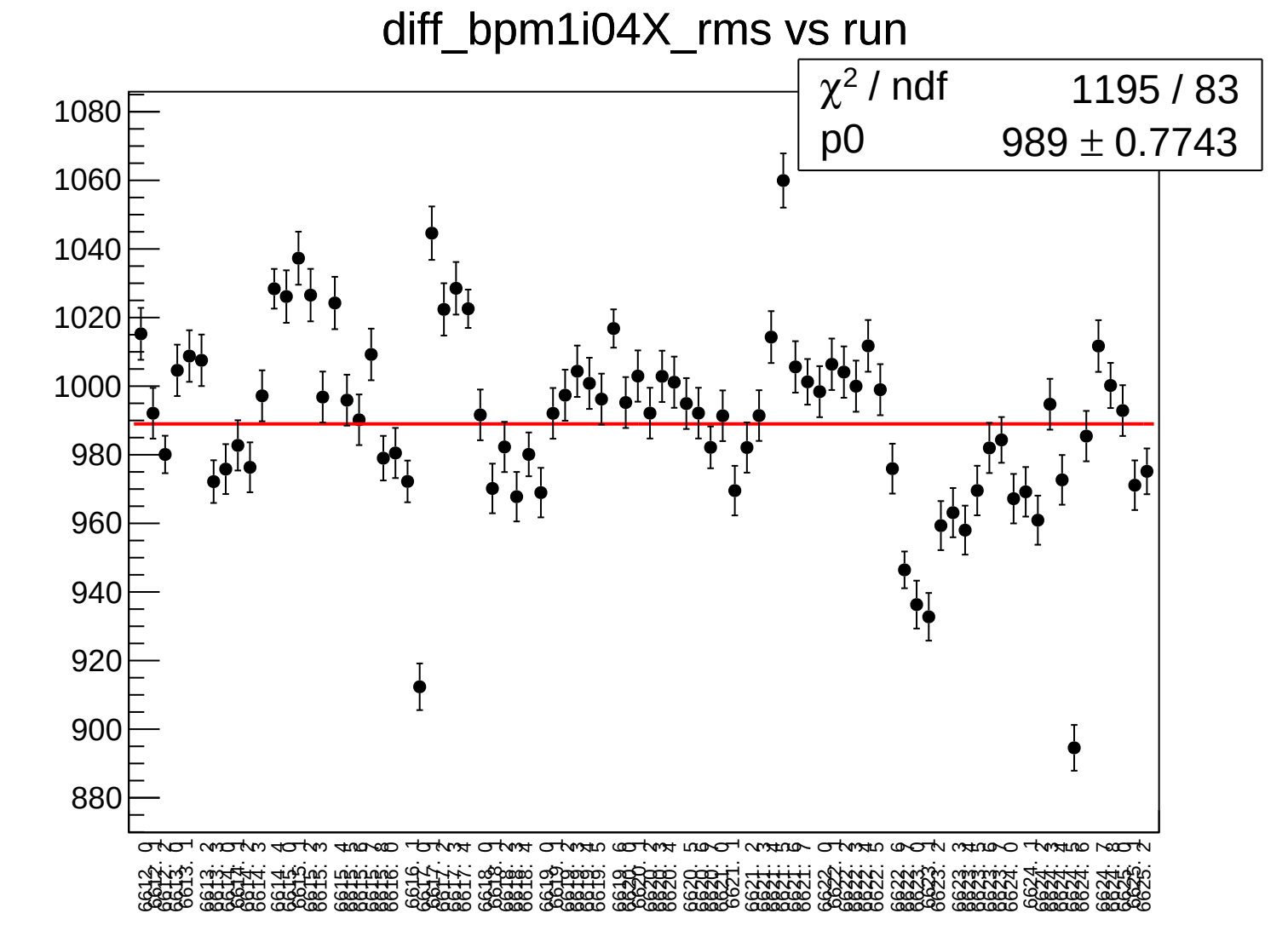

diff_bpm1i02Y_mean vs run
χ² / ndf 182.9 / 83
p0 22.12 ± 0.7104
pull
Entries 84
Mean −2657
Std Dev 0

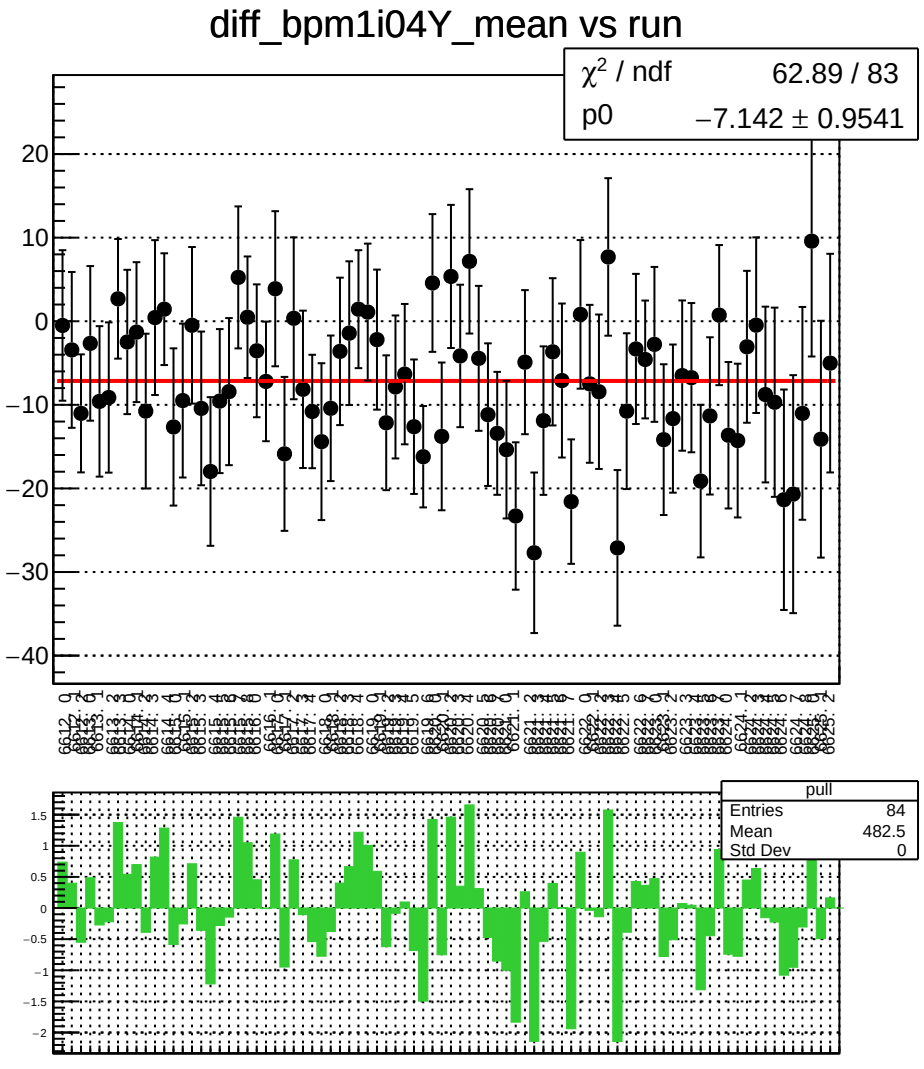

pull1D
Entries 84
Mean −0.0008788
Std Dev 1.476

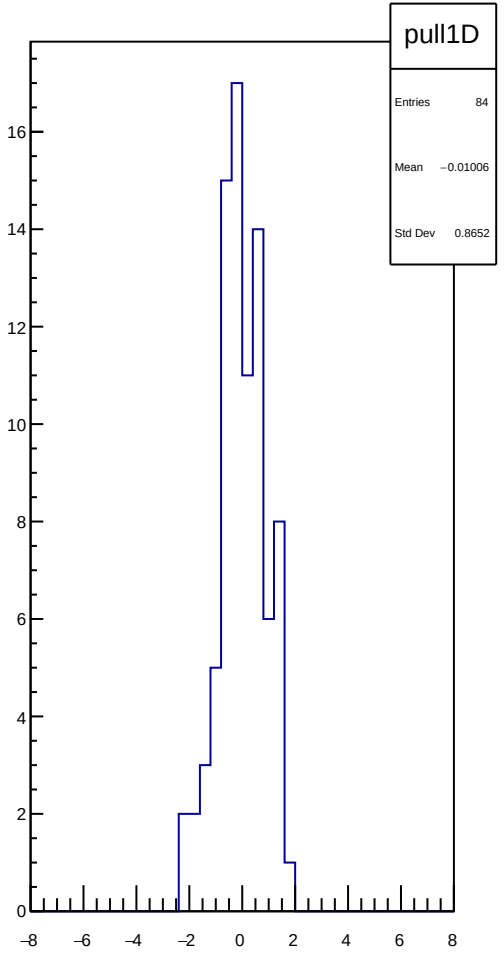

diff_bpm1i02Y_rms vs run
χ² / ndf 303.3 / 83
p0 641.8 ± 0.5023
690
680
670
660
650
640
630
620

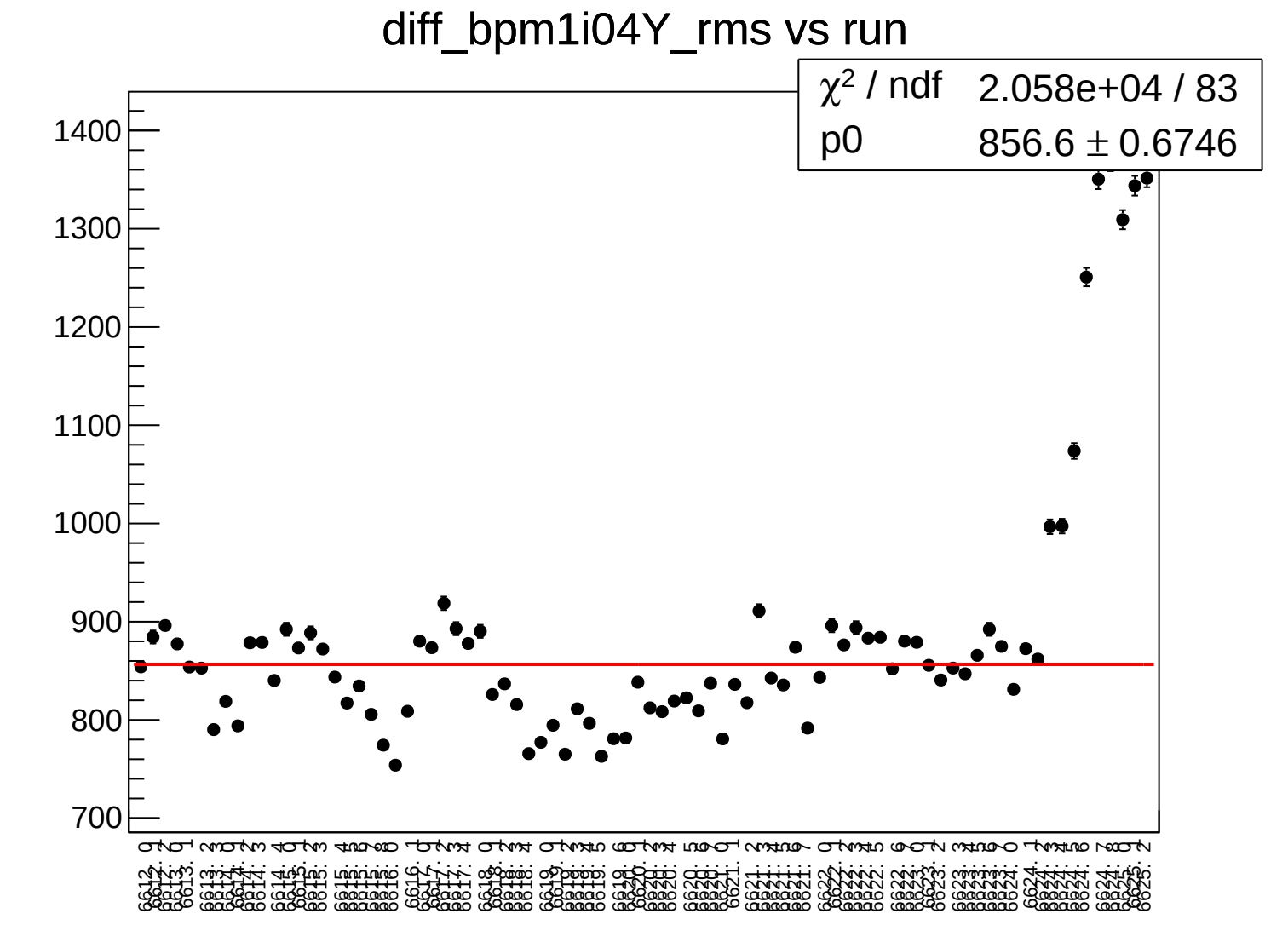

diff_bpm1i04X_mean vs run
χ² / ndf 88.56 / 83
p0 13.91 ± 1.095
pull
Entries 84
Mean −119.4
Std Dev 15.03

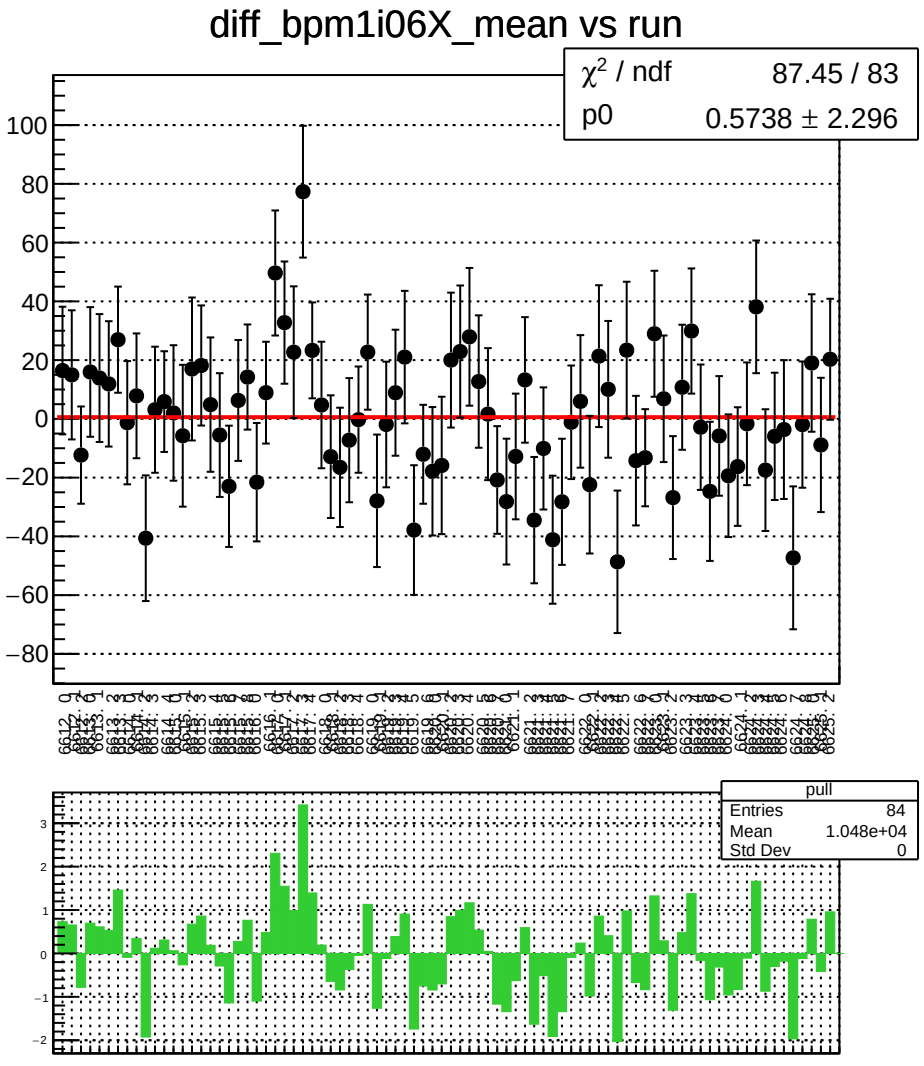

pull1D
Entries 84
Mean −0.002556
Std Dev 1.027

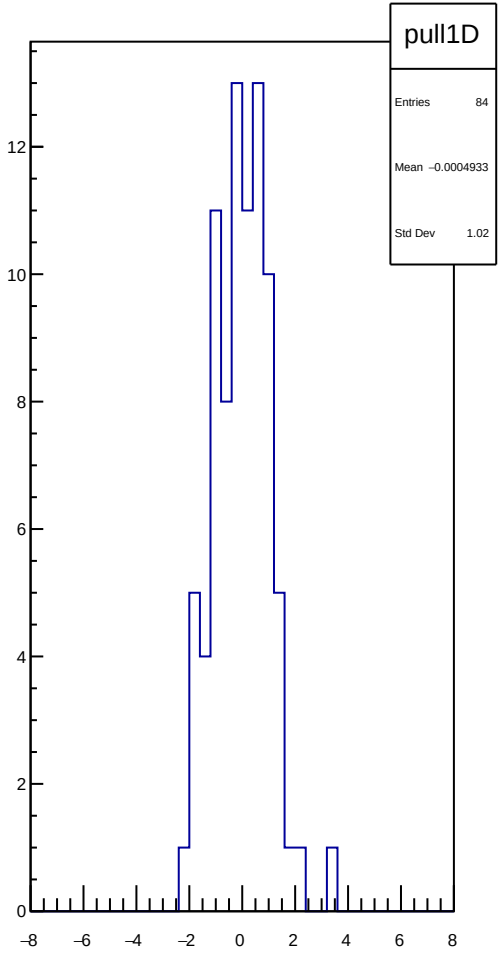

diff_bpm1i04X_rms vs run
χ² / ndf 1195 / 83
p0 989 ± 0.7743
1080
1060
1040
1020
1000
980
960
940
920
900
880

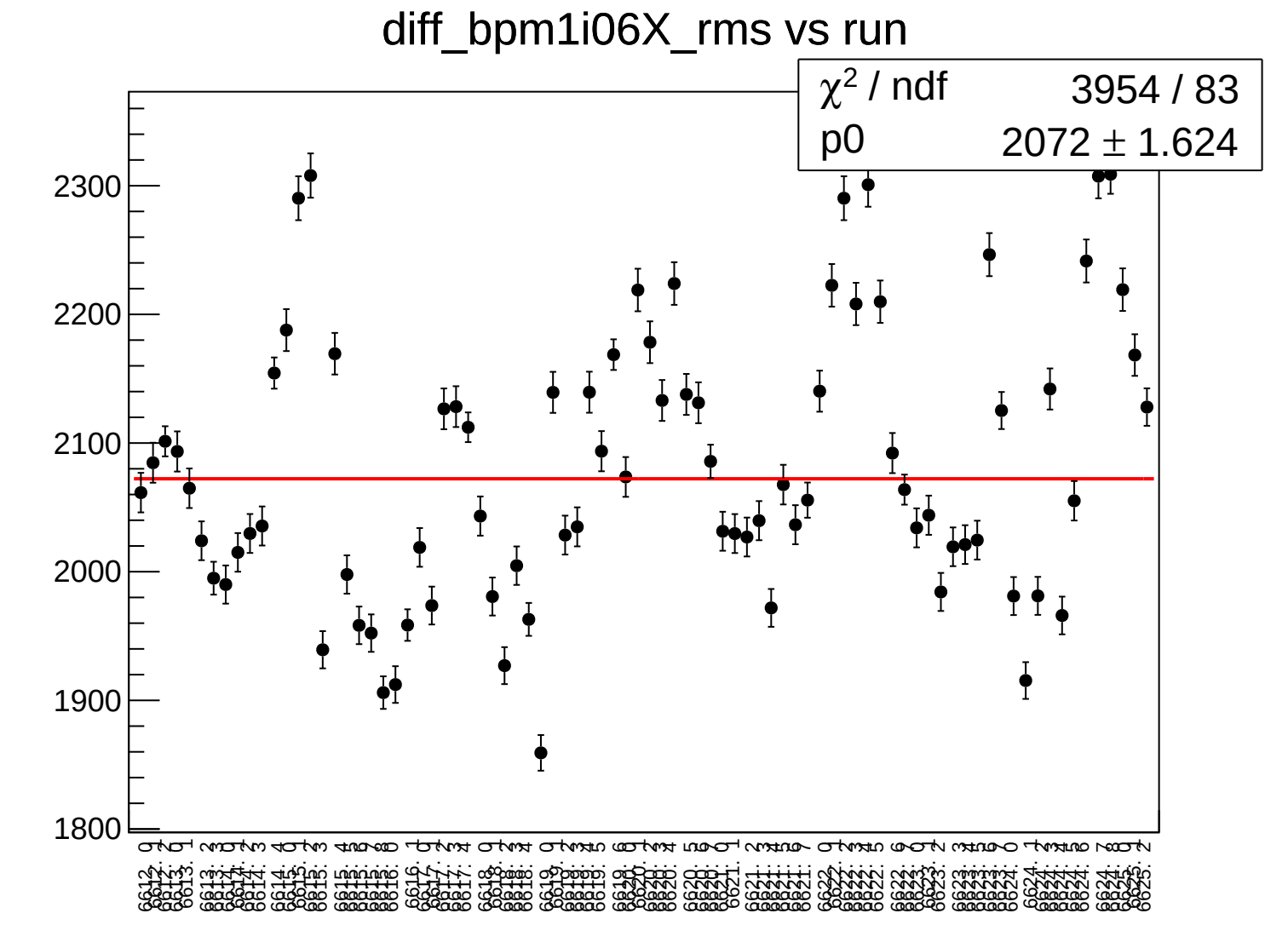

diff_bpm1i04Y_mean vs run
χ² / ndf 62.89 / 83
p0 −7.142 ± 0.9541
pull
Entries 84
Mean 482.5
Std Dev 0

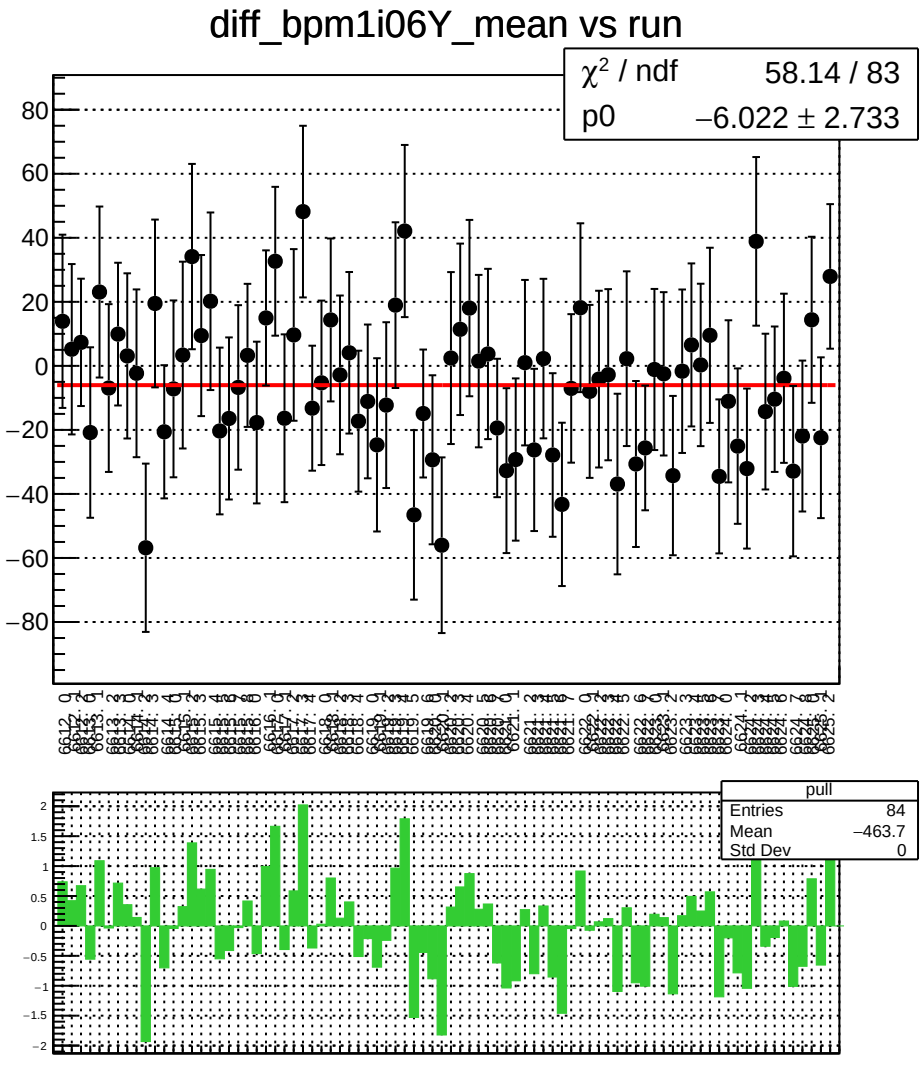

pull1D
Entries 84
Mean −0.01006
Std Dev 0.8652

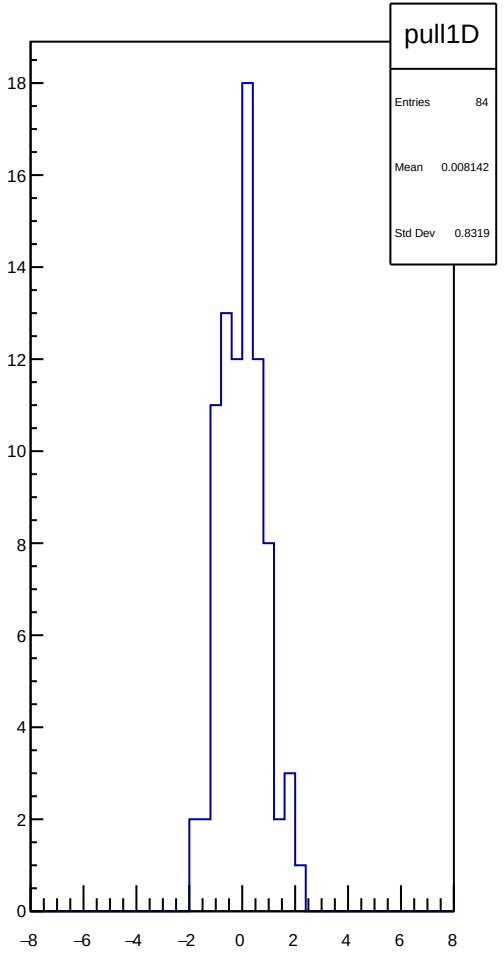

diff_bpm1i04Y_rms vs run
χ² / ndf 2.058e+04 / 83
p0 856.6 ± 0.6746
1400
1300
1200
1100
1000
900
800
700

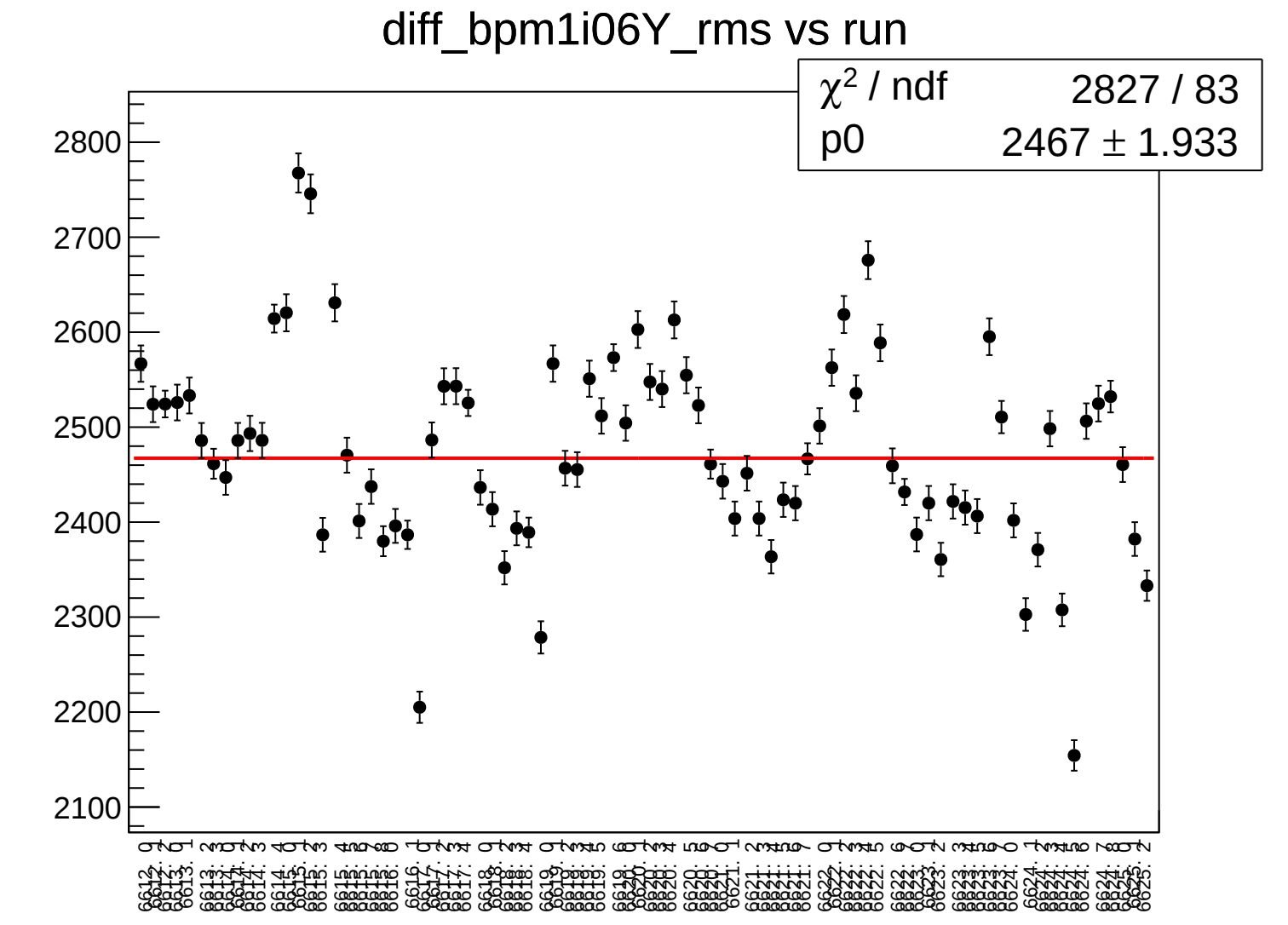

diff_bpm1i06X_mean vs run
χ² / ndf 87.45 / 83
p0 0.5738 ± 2.296
pull
Entries 84
Mean 1.048e+04
Std Dev 0

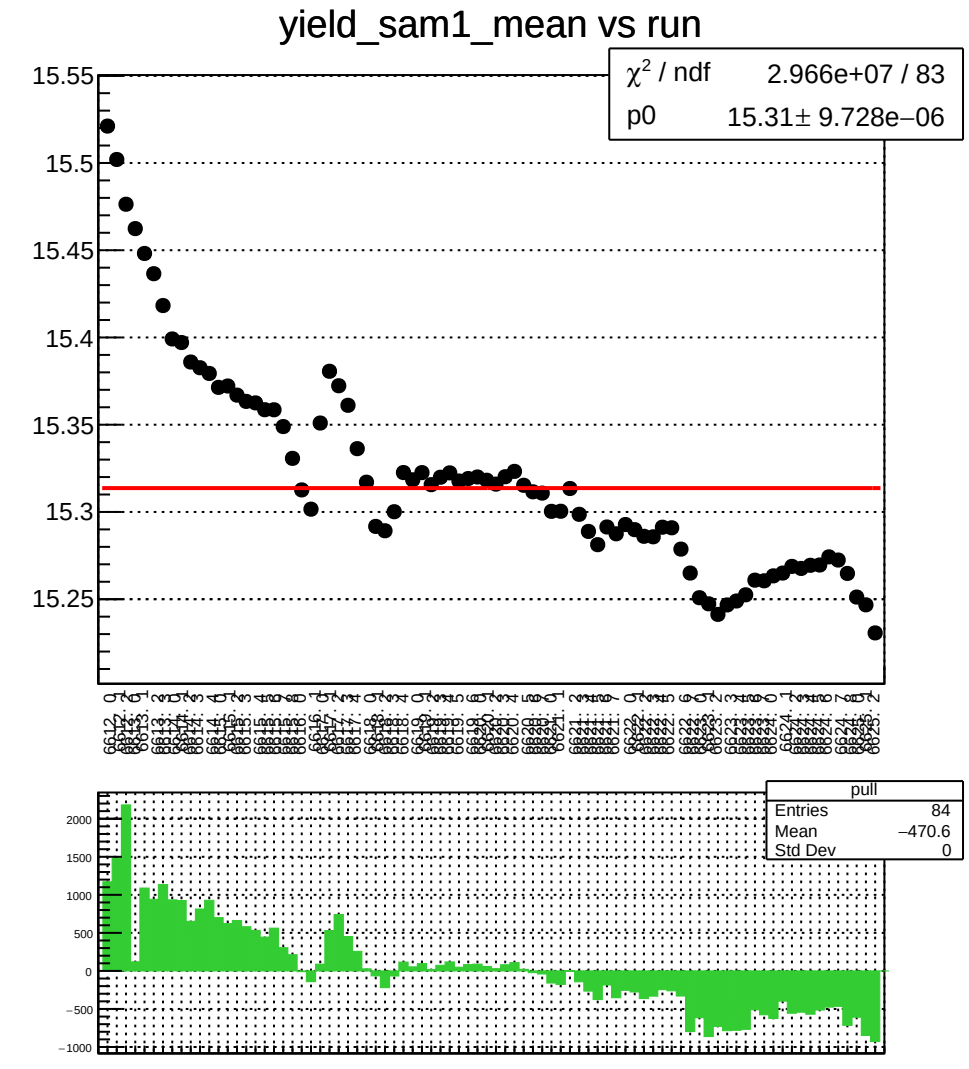

pull1D
Entries 84
Mean −0.0004933
Std Dev 1.02

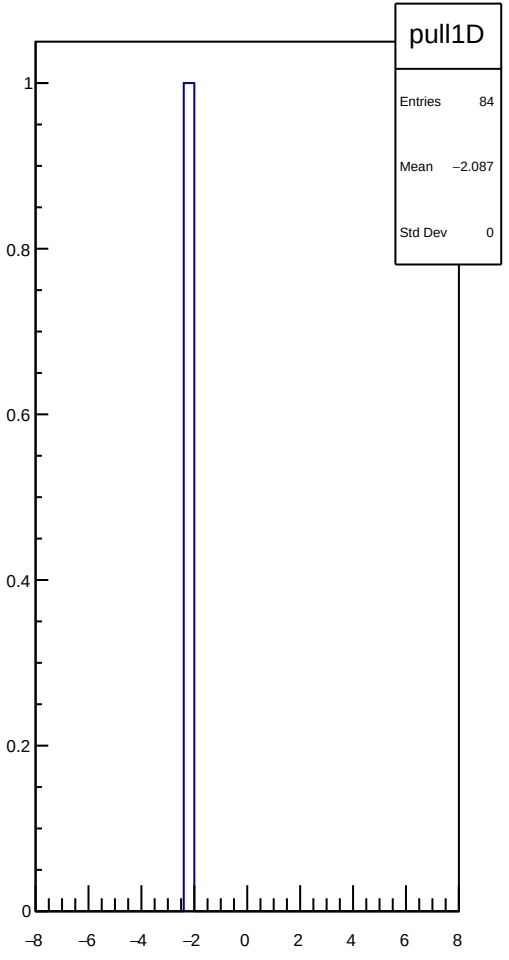

diff_bpm1i06X_rms vs run
χ² / ndf 3954 / 83
p0 2072 ± 1.624
2300
2200
2100
2000
1900
1800

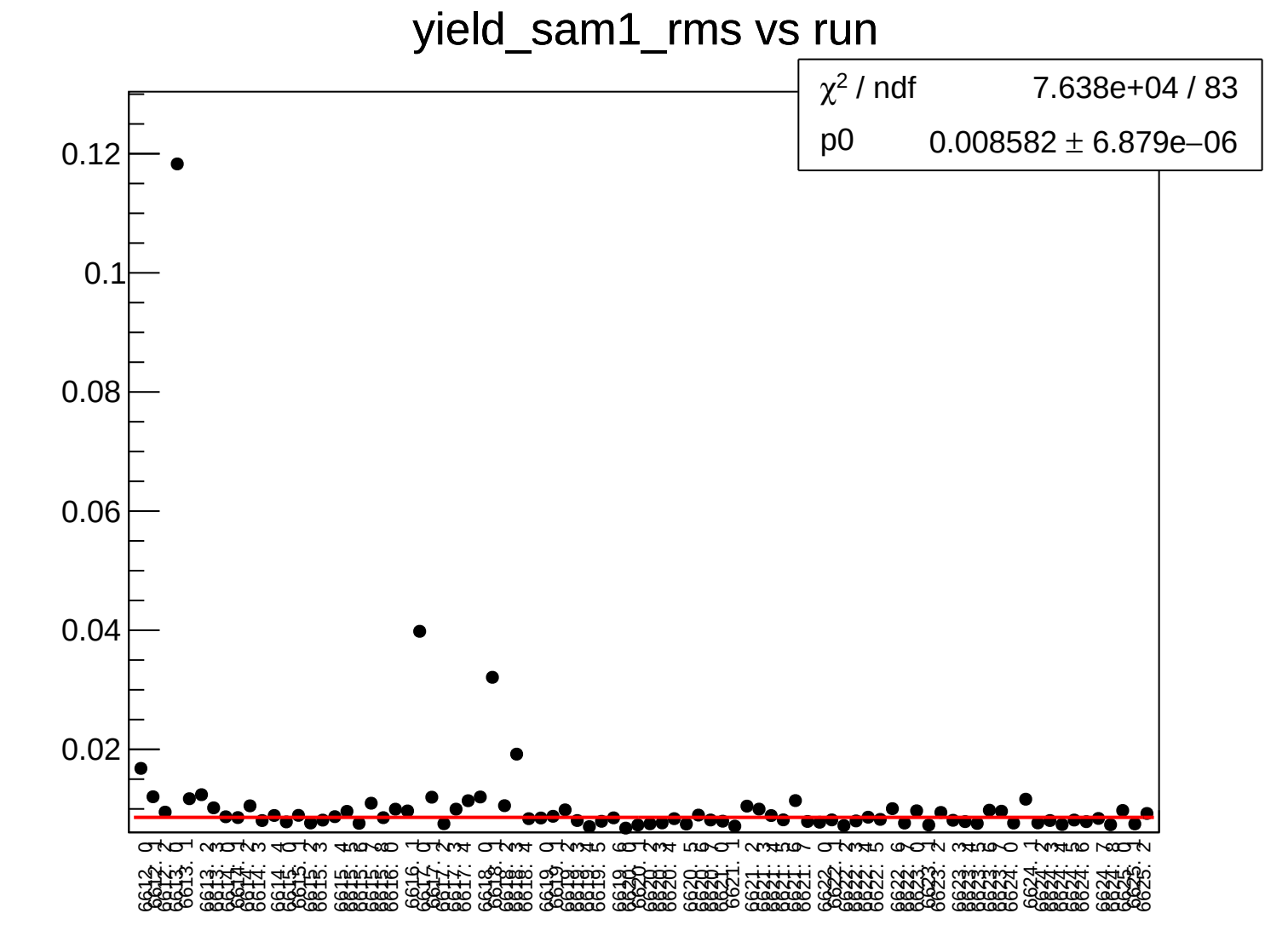

diff_bpm1i06Y_mean vs run
χ² / ndf 58.14 / 83
p0 −6.022 ± 2.733
pull
Entries 84
Mean −463.7
Std Dev 0

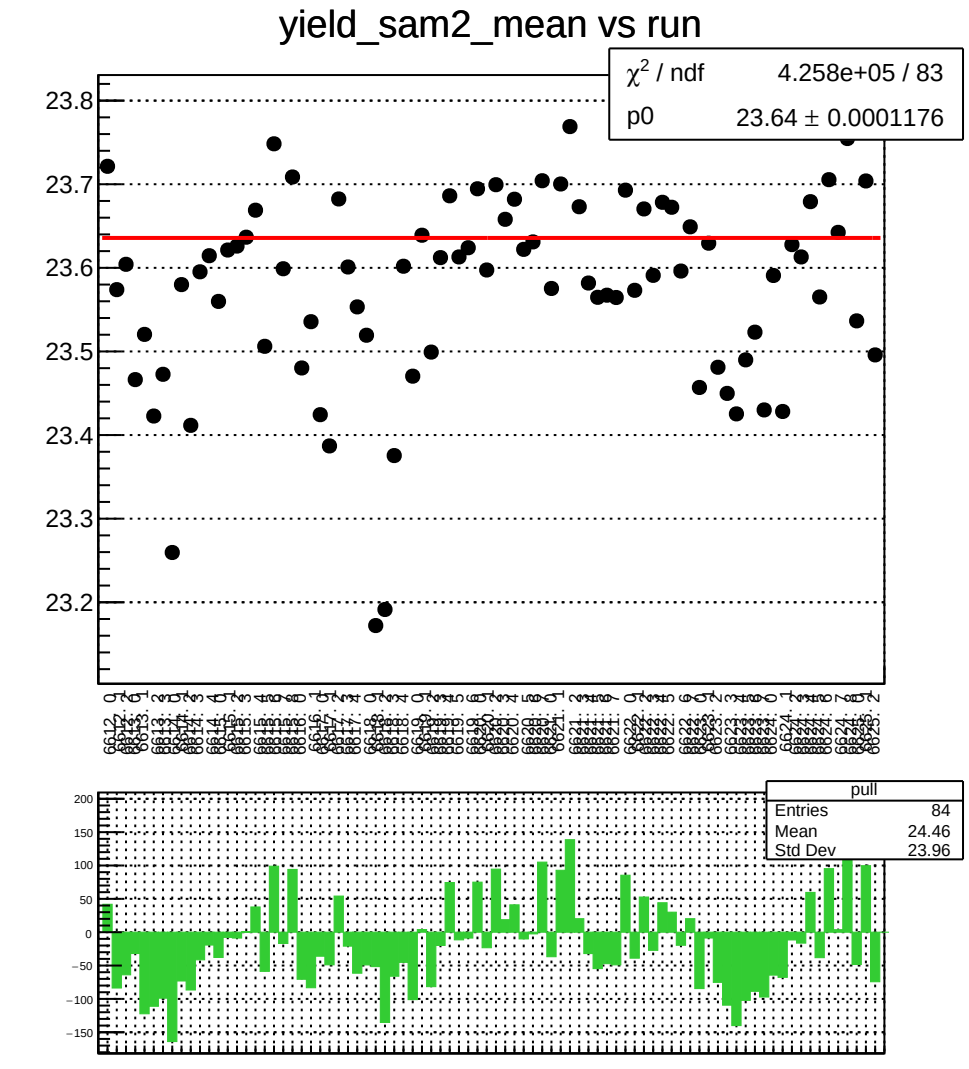

pull1D
Entries 84
Mean 0.008142
Std Dev 0.8319

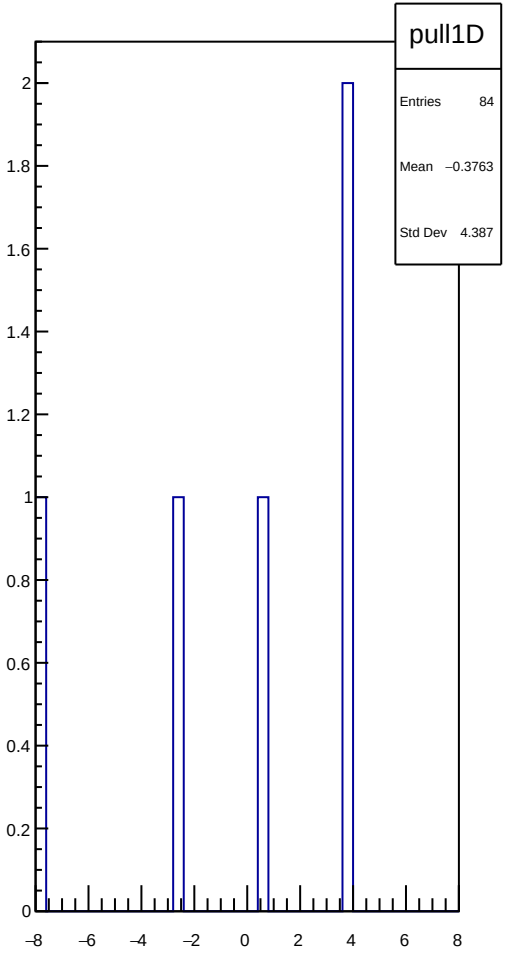

diff_bpm1i06Y_rms vs run
χ² / ndf 2827 / 83
p0 2467 ± 1.933
2800
2700
2600
2500
2400
2300
2200
2100

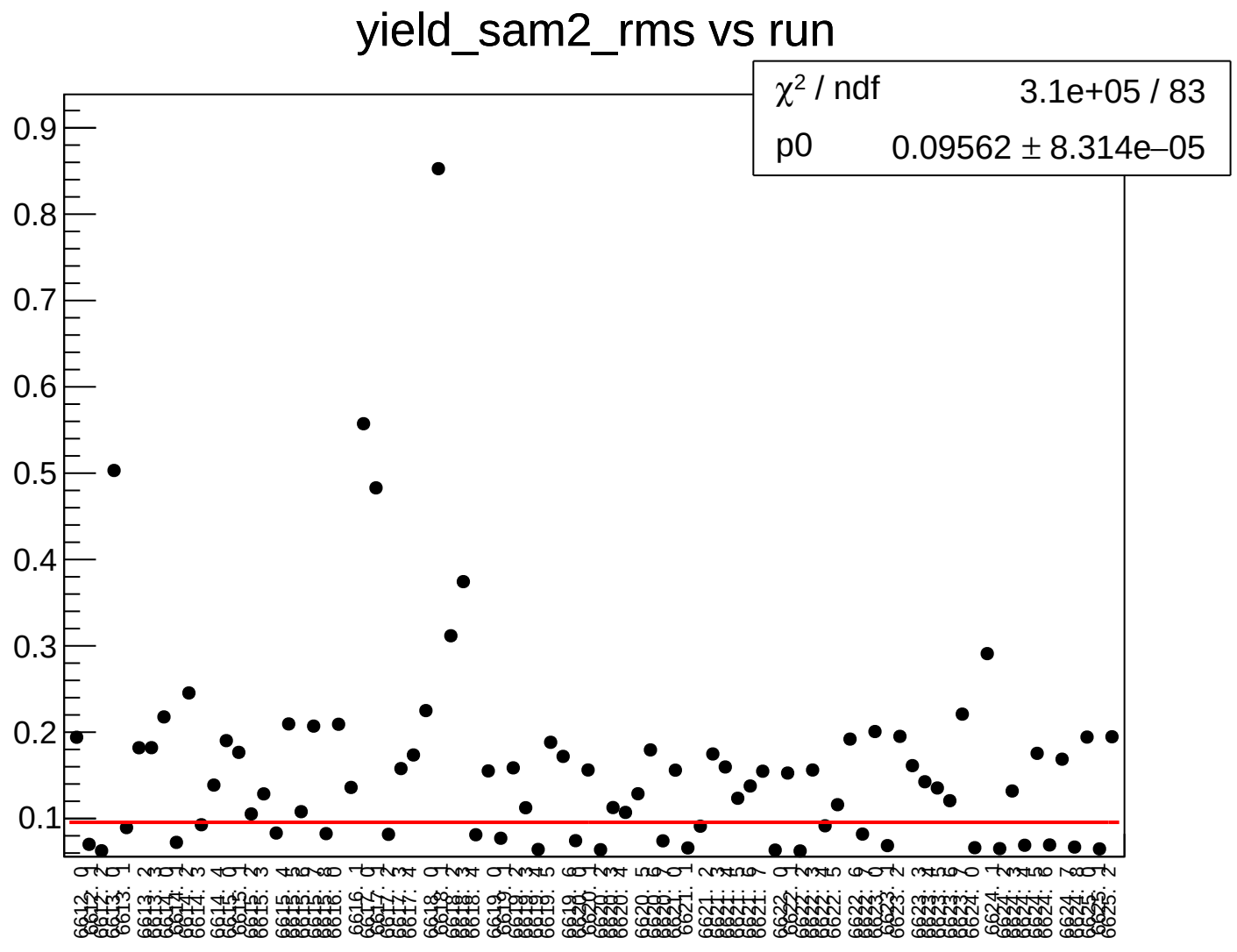

yield_sam1_mean vs run
χ² / ndf 2.966e+07 / 83
p0 15.31± 9.728e−06
15.55
15.5
15.45
15.4
15.35
15.3
15.25
pull
Entries 84
Mean −470.6
Std Dev 0
2000
1500
1000
500
0
−500
−1000

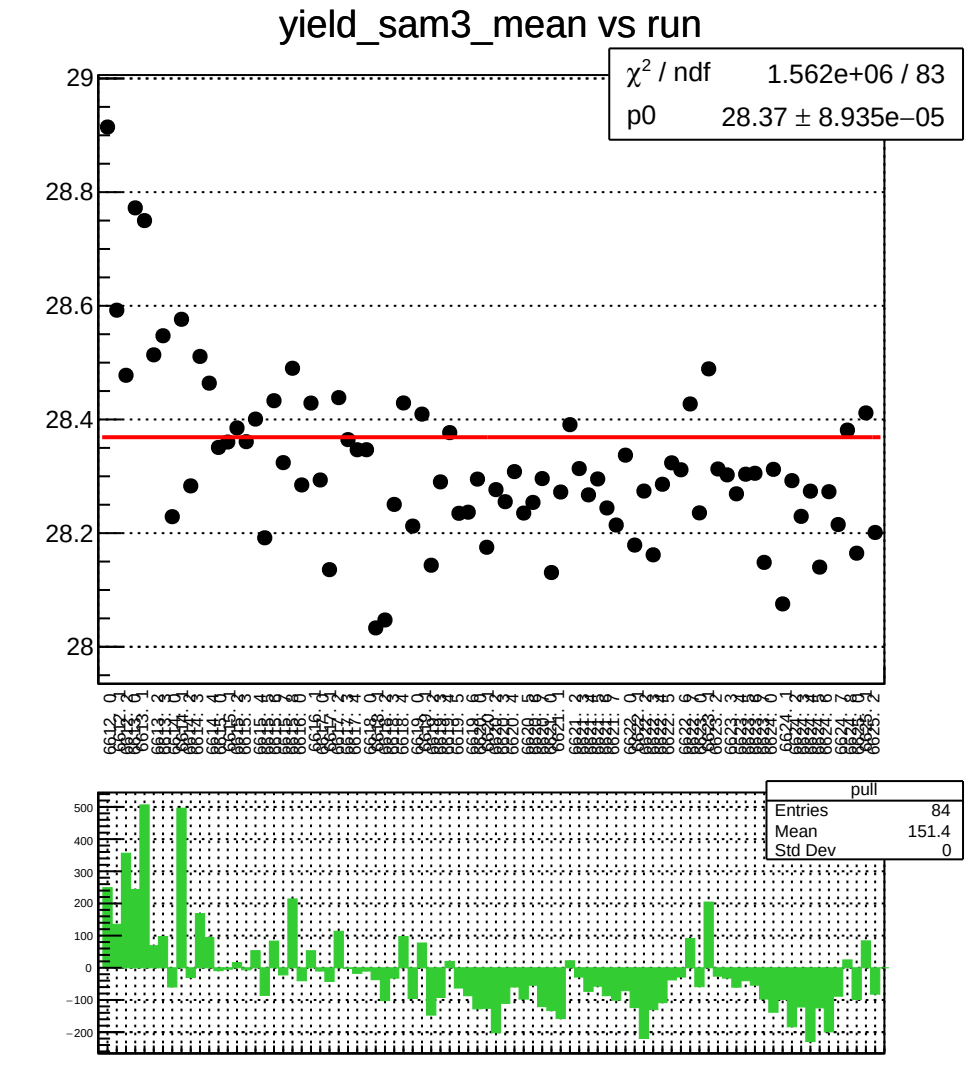

pull1D
Entries 84
Mean −2.087
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

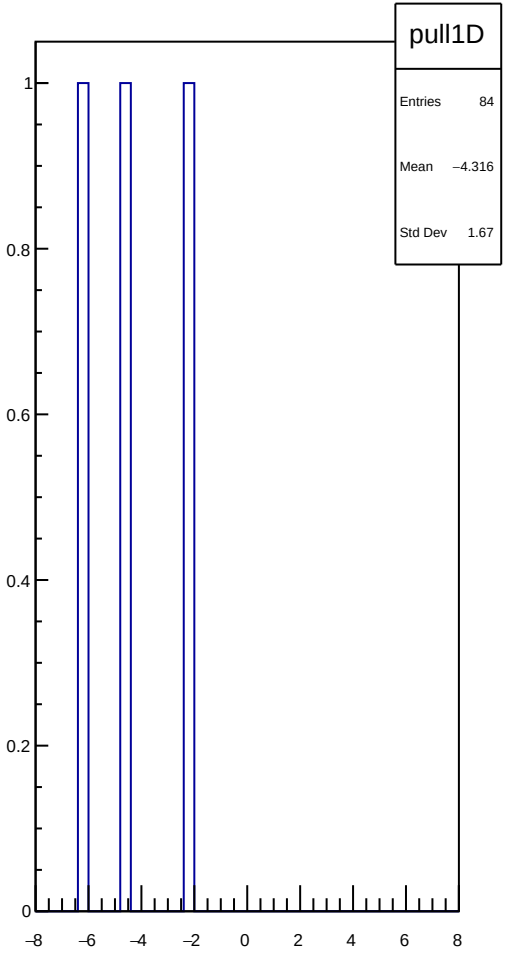

yield_sam1_rms vs run
χ² / ndf 7.638e+04 / 83
p0 0.008582 ± 6.879e−06
0.12
0.1
0.08
0.06
0.04
0.02

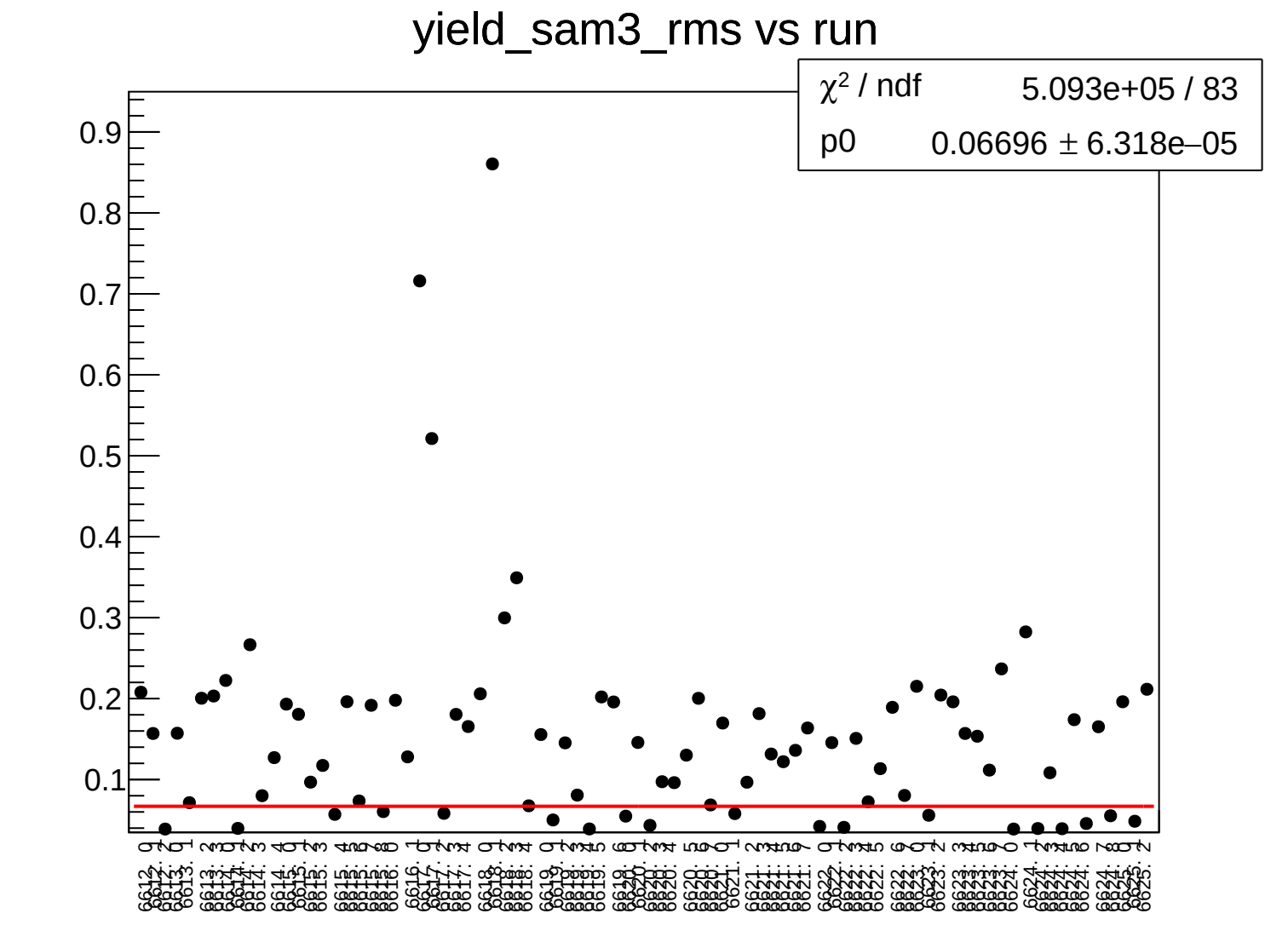

yield_sam2_mean vs run
χ² / ndf 4.258e+05 / 83
p0 23.64 ± 0.0001176
23.8
23.7
23.6
23.5
23.4
23.3
23.2
pull
Entries 84
Mean 24.46
Std Dev 23.96
200
150
100
50
0
−50
−100
−150

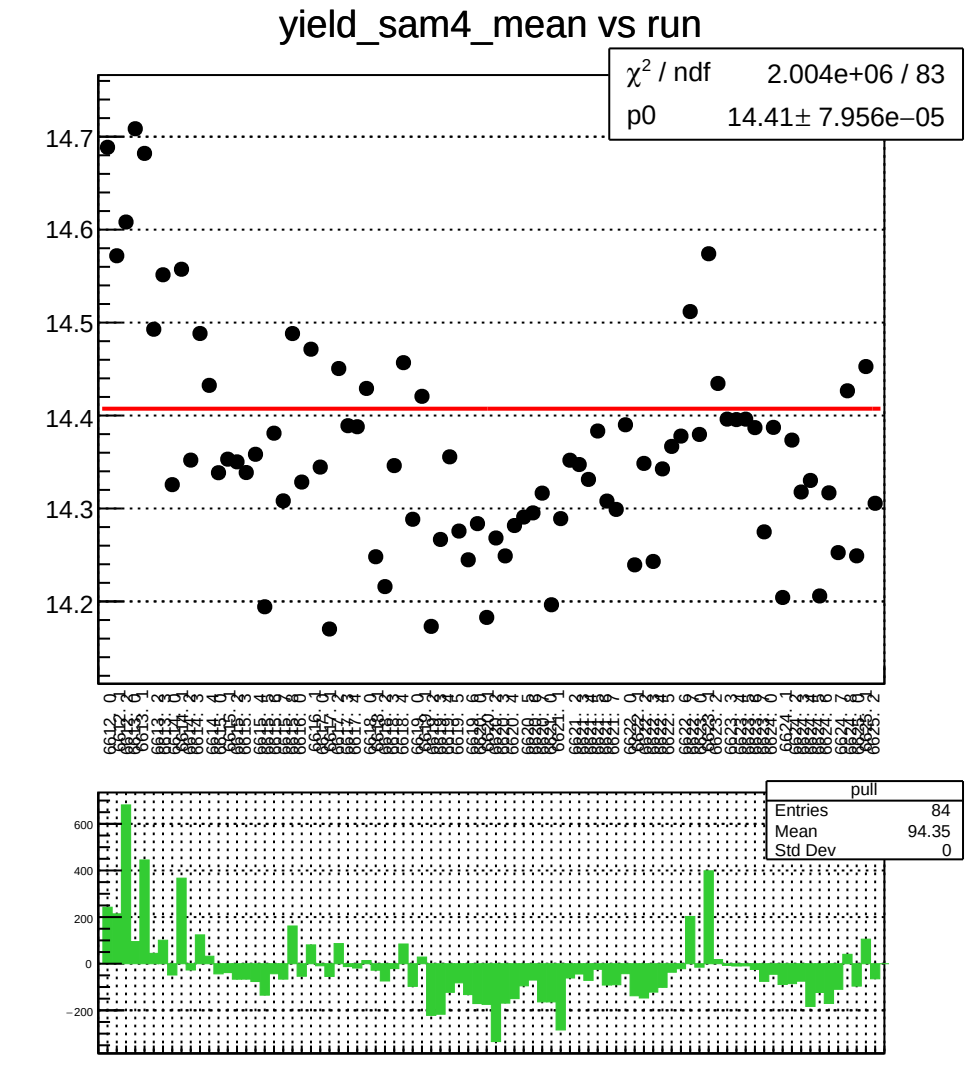

pull1D
Entries 84
Mean −0.3763
Std Dev 4.387
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

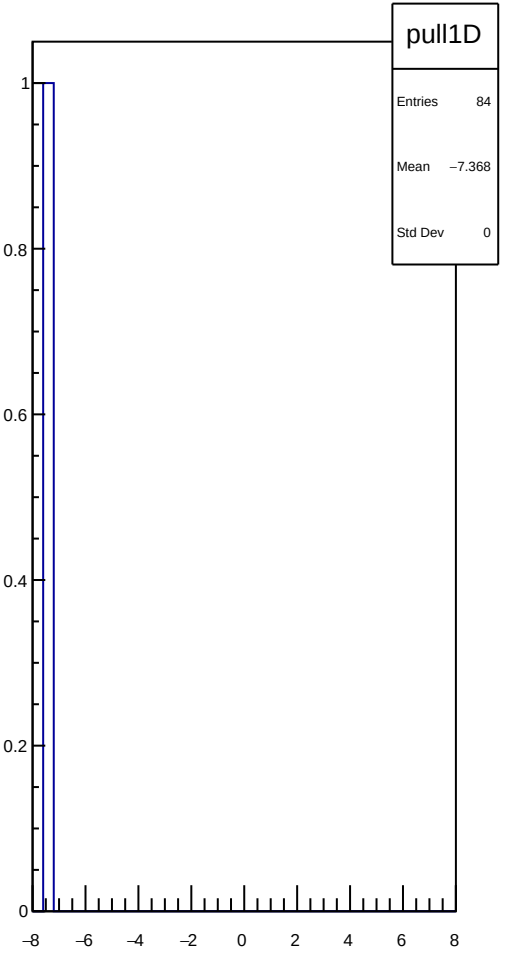

yield_sam2_rms vs run
χ² / ndf 3.1e+05 / 83
p0 0.09562 ± 8.314e−05
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

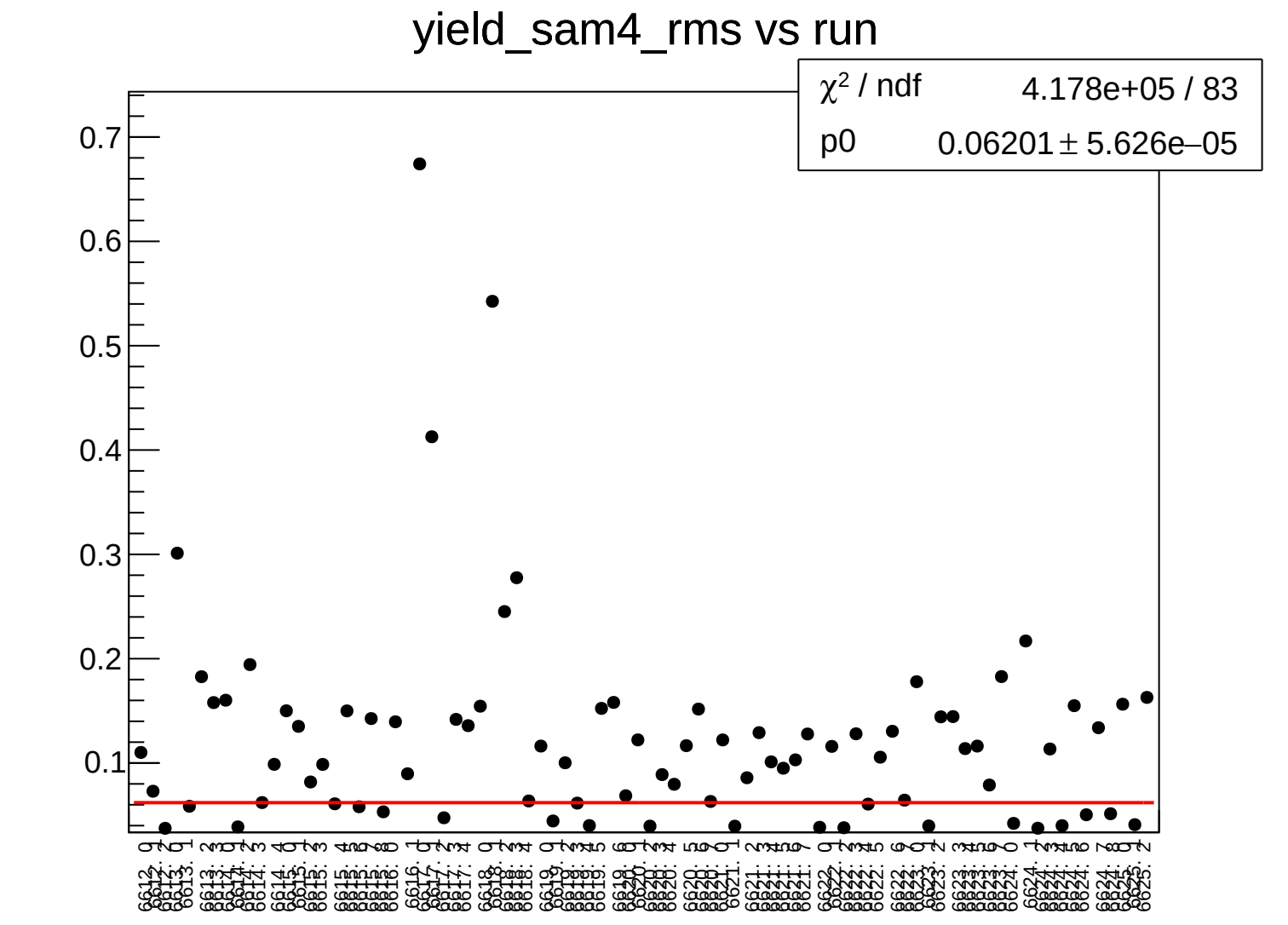

yield_sam3_mean vs run
χ² / ndf 1.562e+06 / 83
p0 28.37 ± 8.935e−05
29
28.8
28.6
28.4
28.2
28
pull
Entries 84
Mean 151.4
Std Dev 0
500
400
300
200
100
0
−100
−200

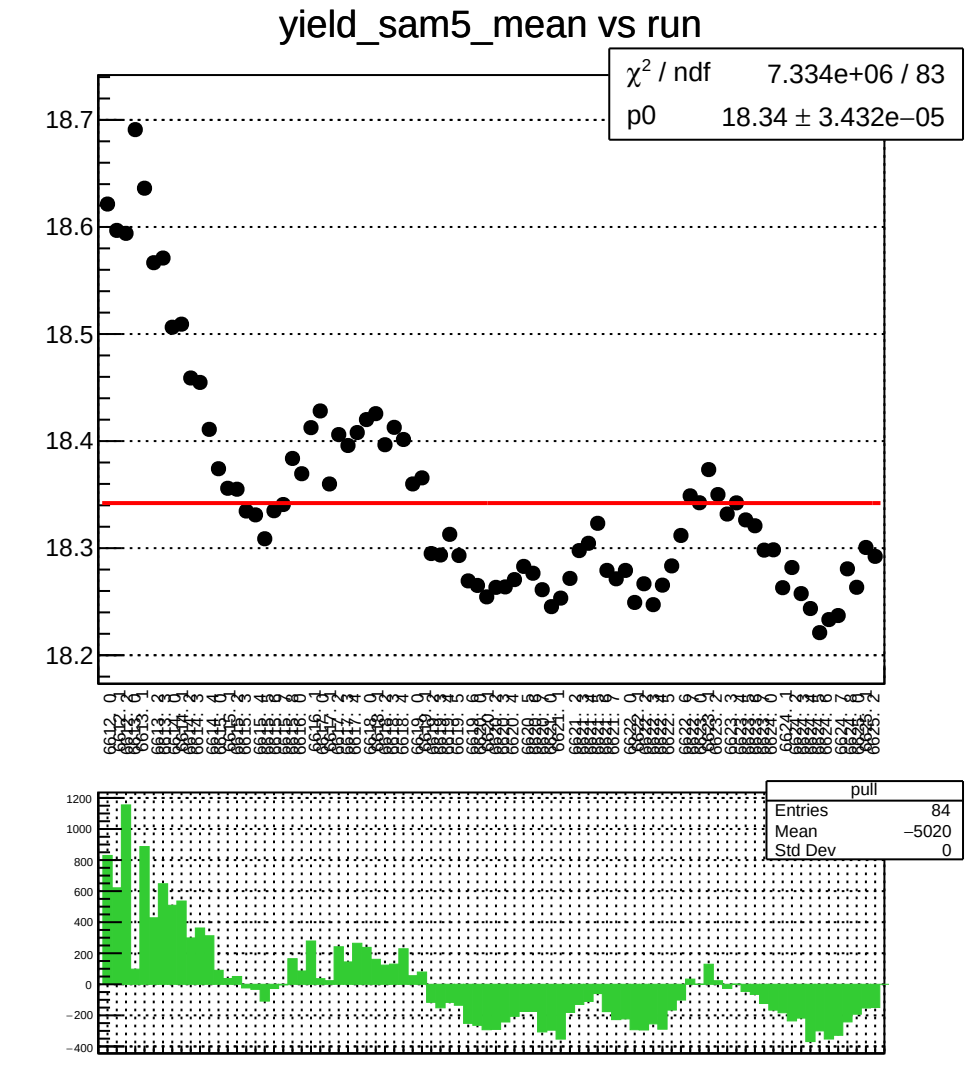

pull1D
Entries 84
Mean −4.316
Std Dev 1.67
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

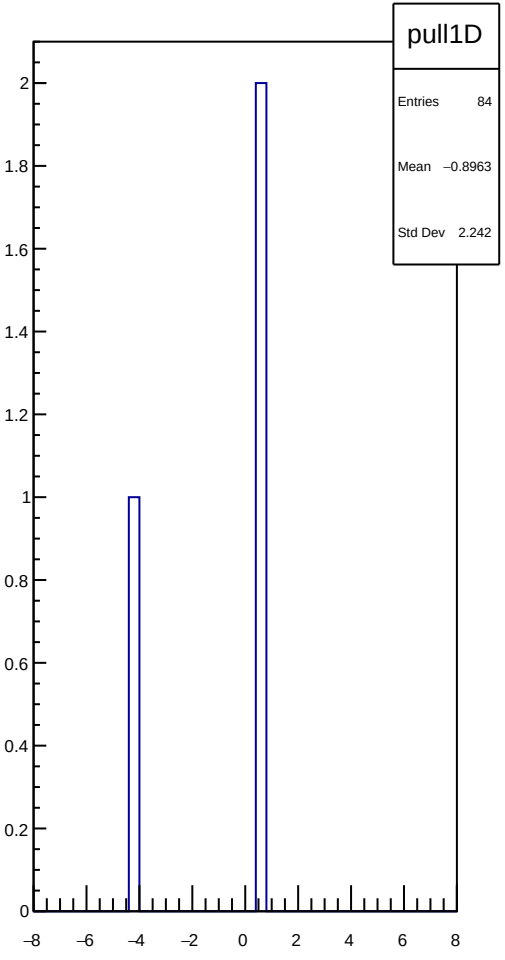

yield_sam3_rms vs run
χ² / ndf 5.093e+05 / 83
p0 0.06696 ± 6.318e–05
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

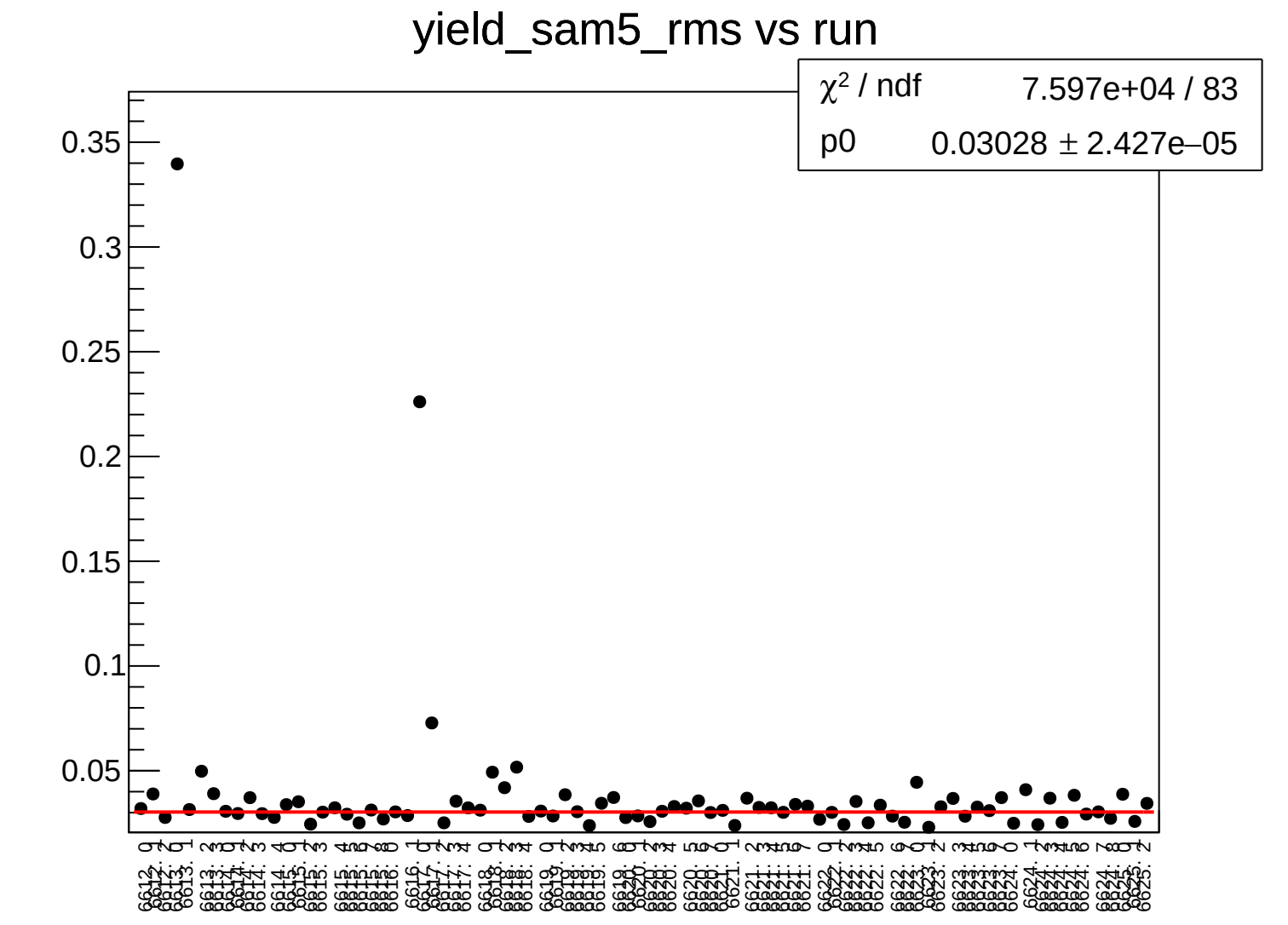

yield_sam4_mean vs run
χ² / ndf 2.004e+06 / 83
p0 14.41± 7.956e−05
14.7
14.6
14.5
14.4
14.3
14.2
pull
Entries 84
Mean 94.35
Std Dev 0
600
400
200
0
−200

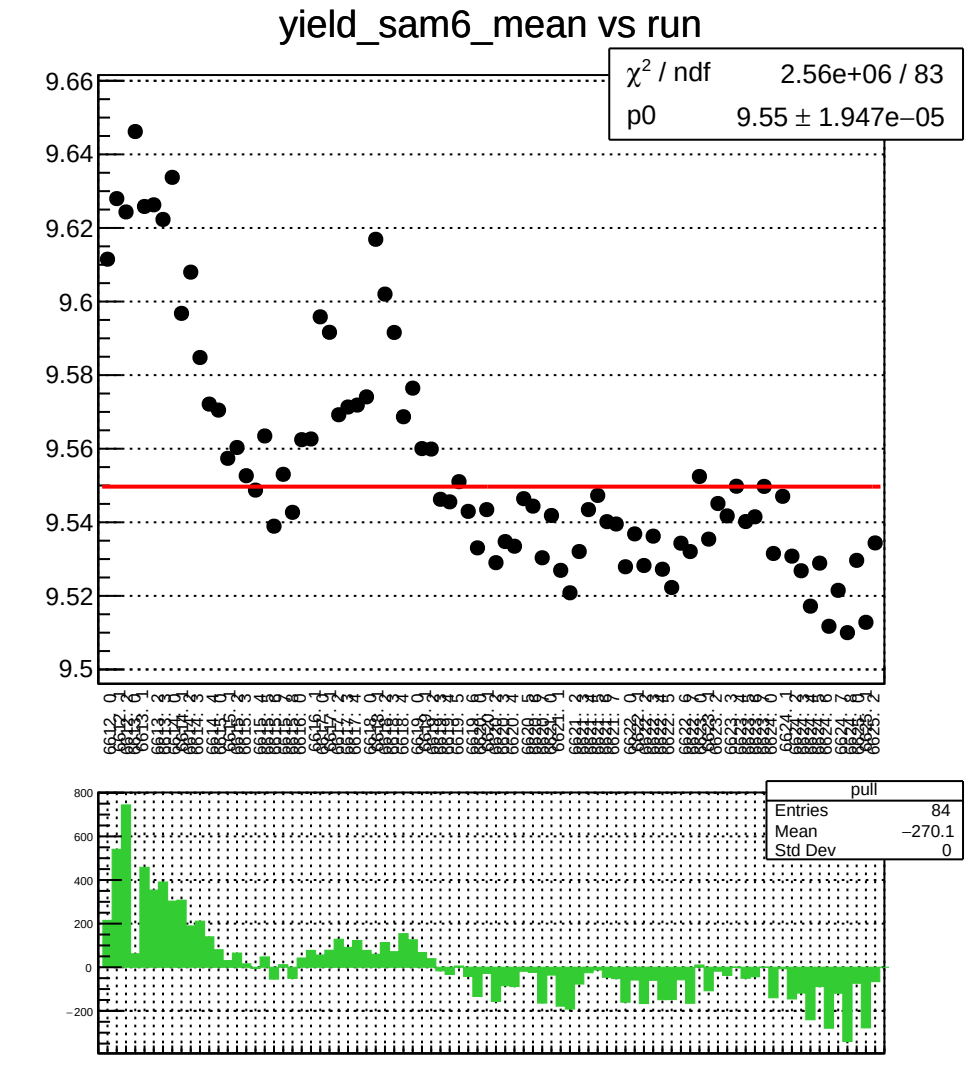

pull1D
Entries 84
Mean −7.368
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

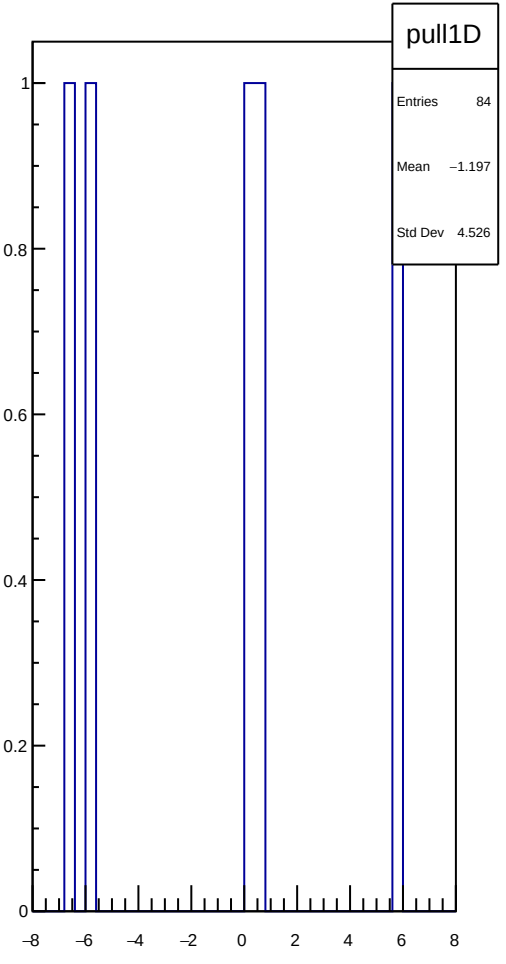

yield_sam4_rms vs run
χ^2 / ndf 4.178e+05 / 83
p0 0.06201 ± 5.626e−05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

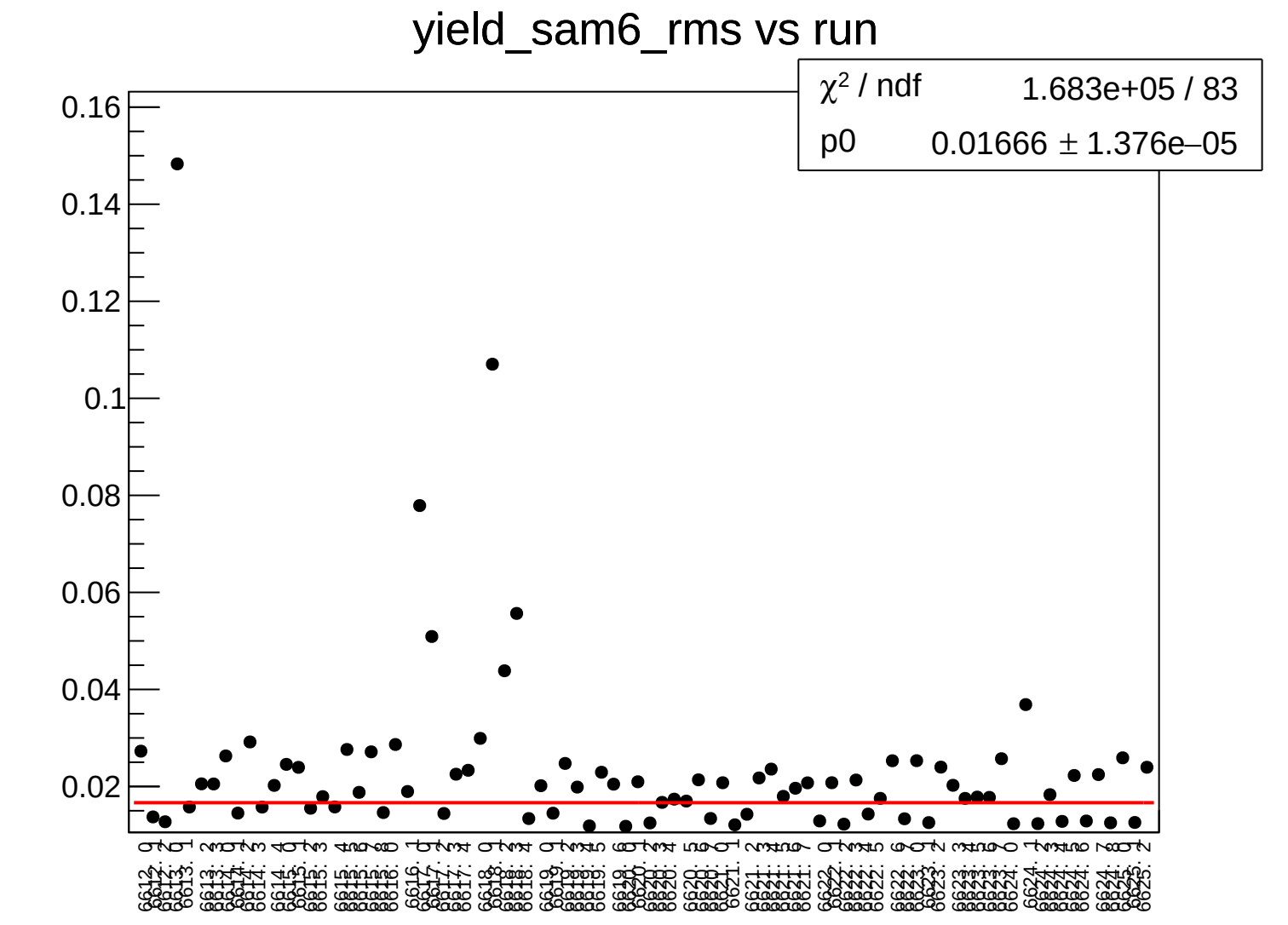

yield_sam5_mean vs run
χ² / ndf 7.334e+06 / 83
p0 18.34 ± 3.432e−05
18.7
18.6
18.5
18.4
18.3
18.2
pull
Entries 84
Mean −5020
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400

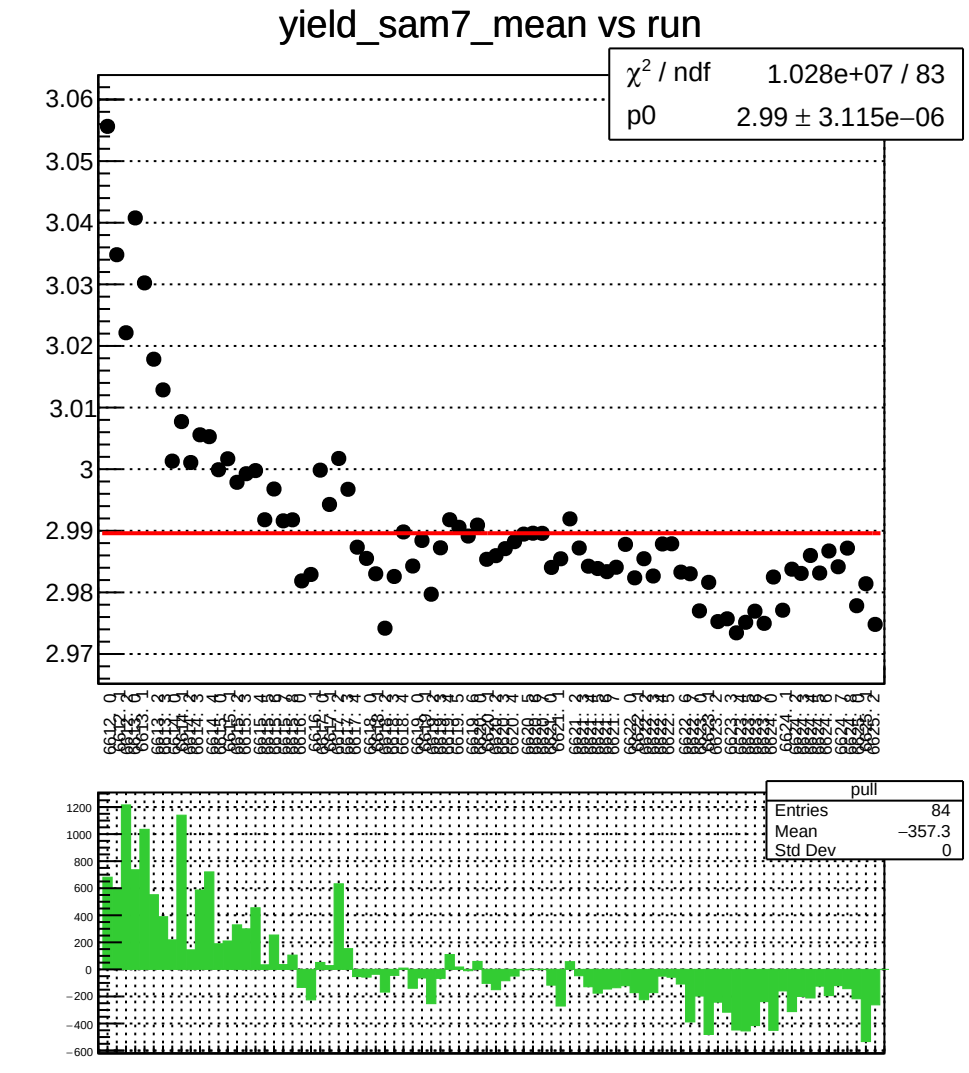

pull1D
Entries 84
Mean −0.8963
Std Dev 2.242
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

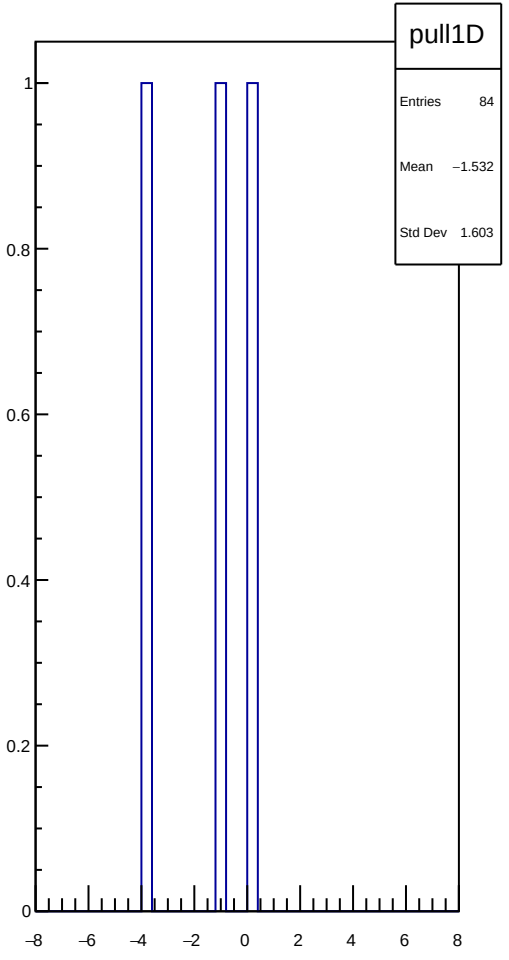

yield_sam5_rms vs run
χ² / ndf 7.597e+04 / 83
p0 0.03028 ± 2.427e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

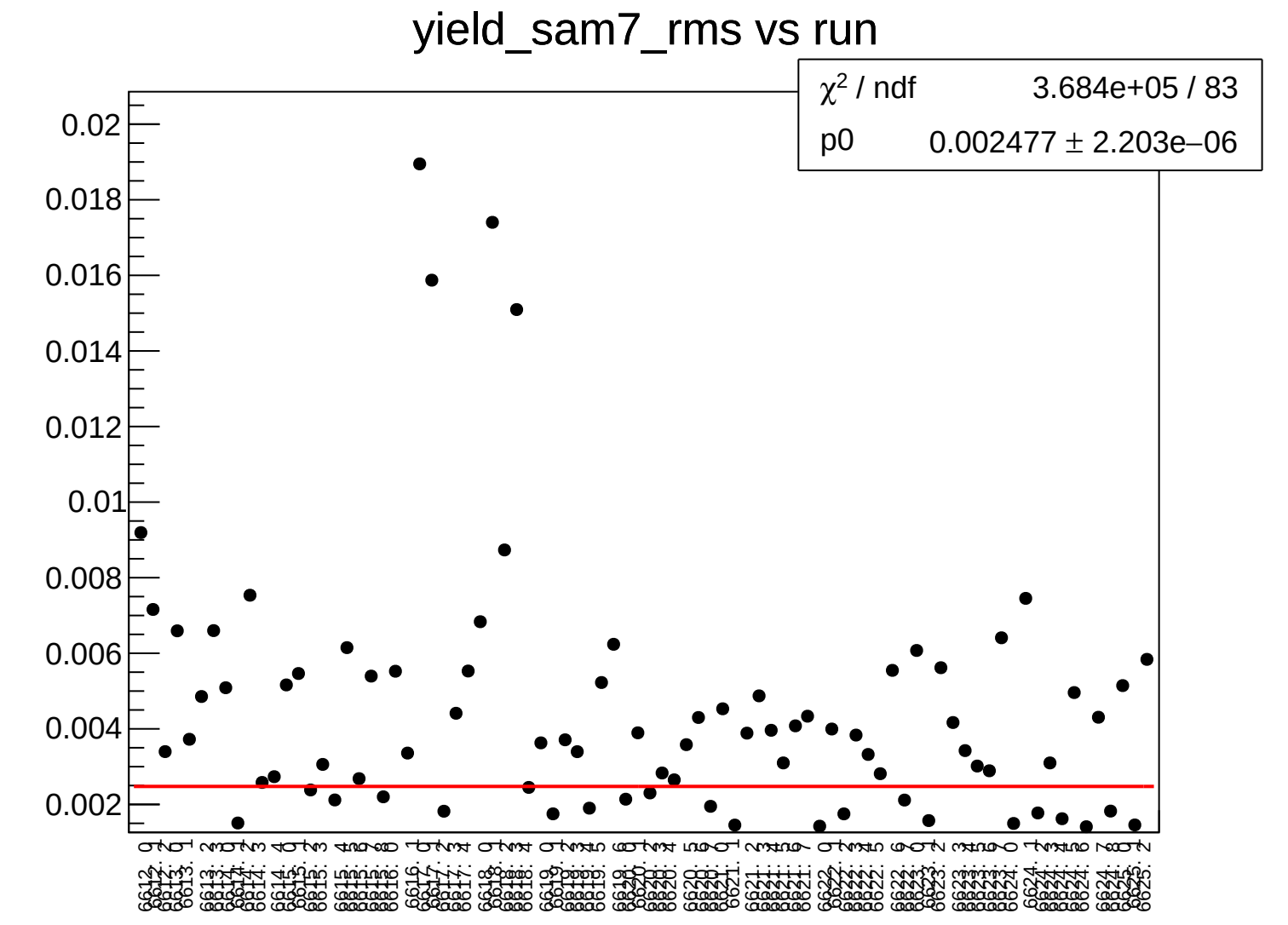

yield_sam6_mean vs run
χ² / ndf 2.56e+06 / 83
p0 9.55 ± 1.947e−05
9.66
9.64
9.62
9.6
9.58
9.56
9.54
9.52
9.5
pull
Entries 84
Mean −270.1
Std Dev 0
800
600
400
200
0
−200

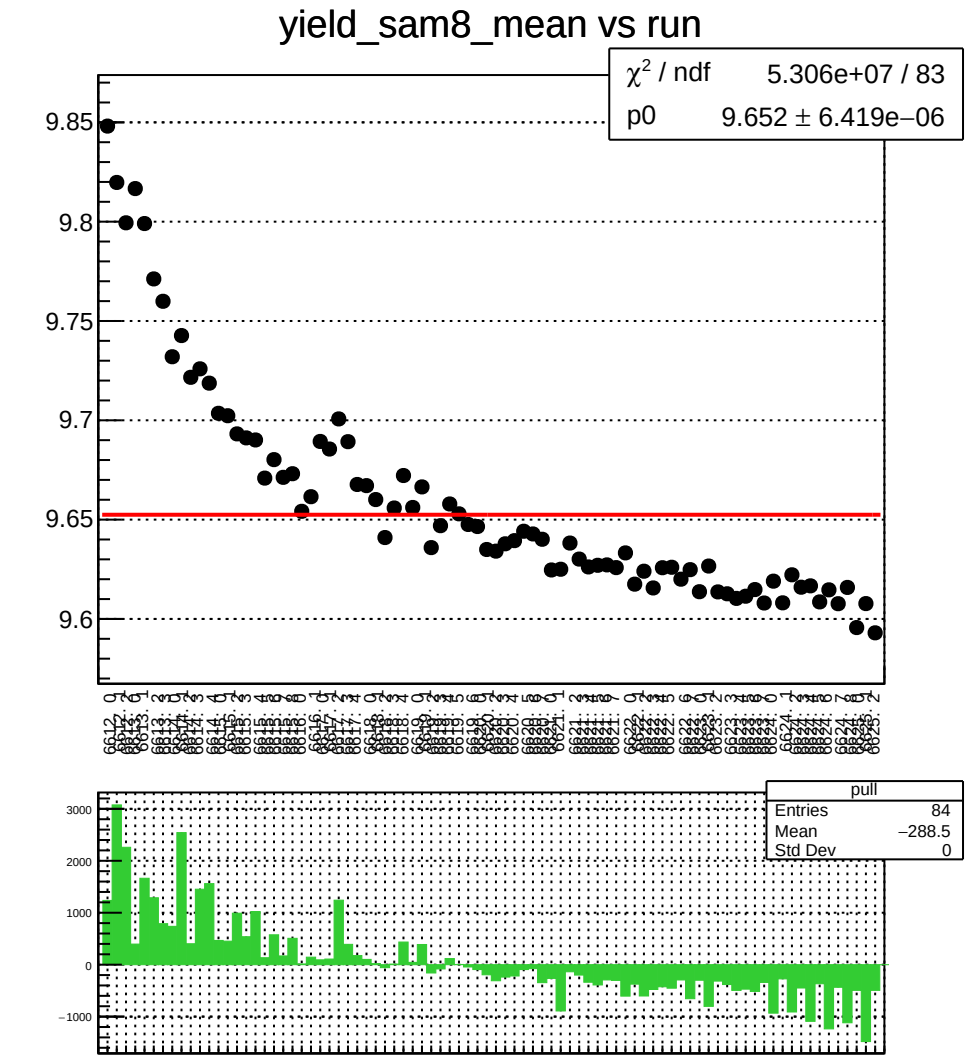

pull1D
Entries 84
Mean −1.197
Std Dev 4.526
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

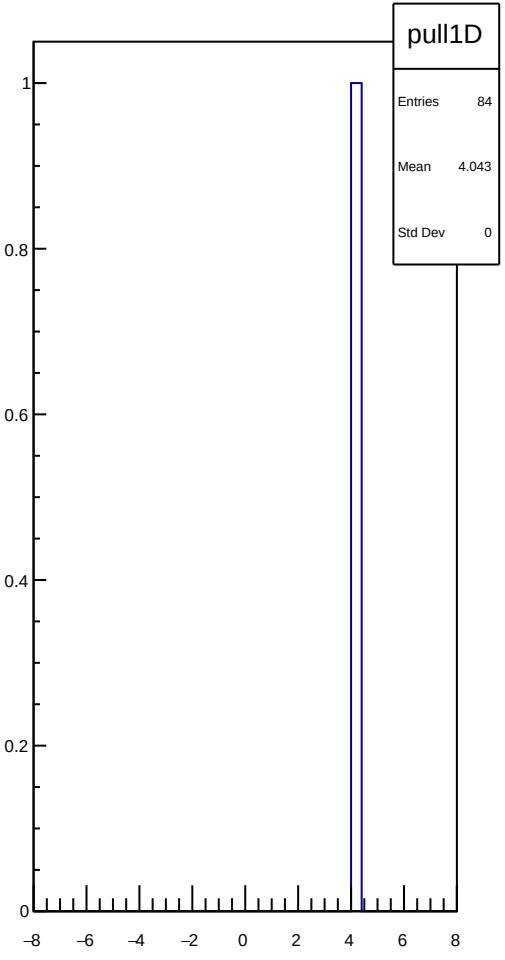

yield_sam6_rms vs run
χ² / ndf 1.683e+05 / 83
p0 0.01666 ± 1.376e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

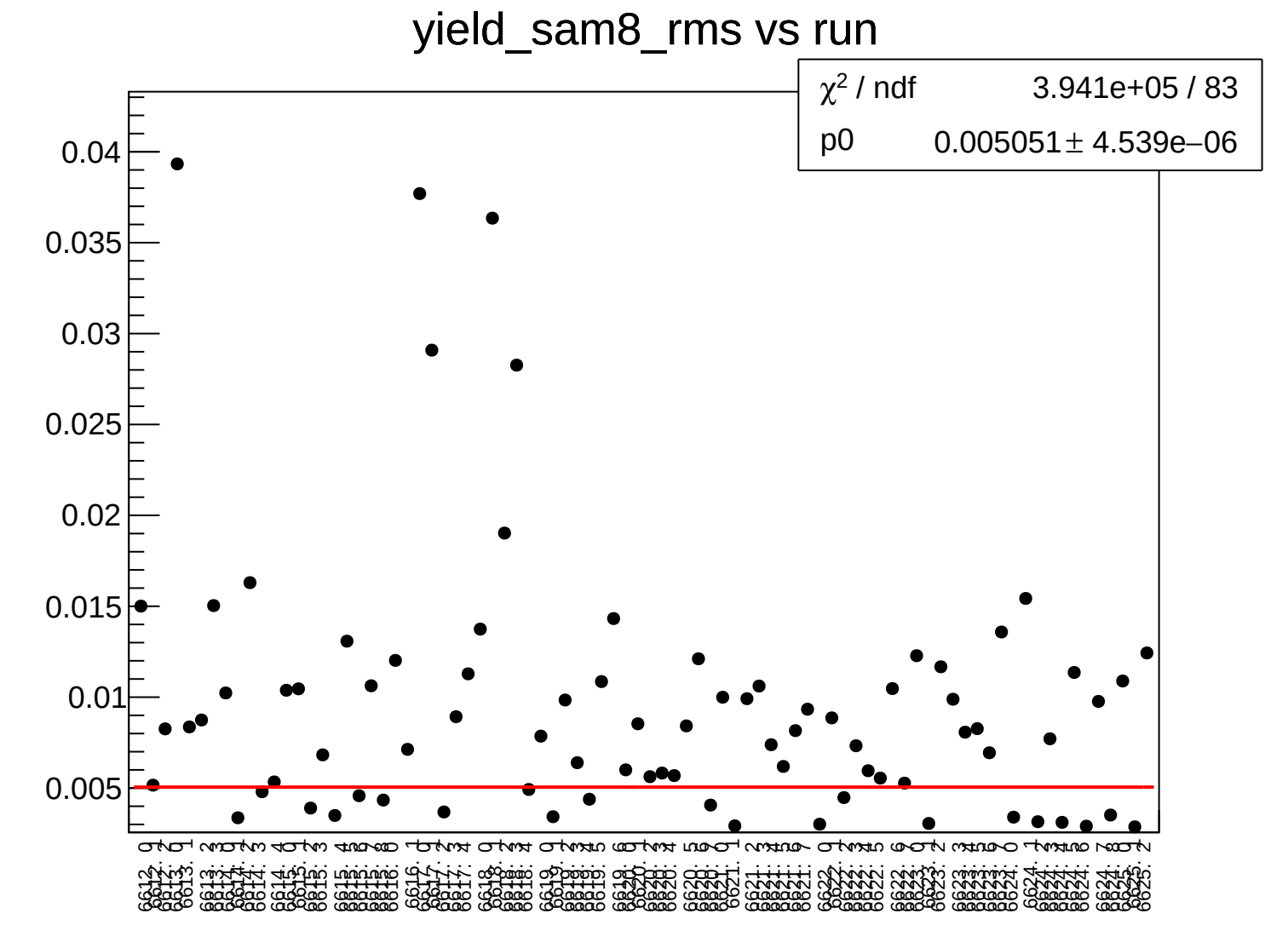

yield_sam7_mean vs run
χ² / ndf 1.028e+07 / 83
p0 2.99 ± 3.115e−06
3.06
3.05
3.04
3.03
3.02
3.01
3
2.99
2.98
2.97
pull
Entries 84
Mean −357.3
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

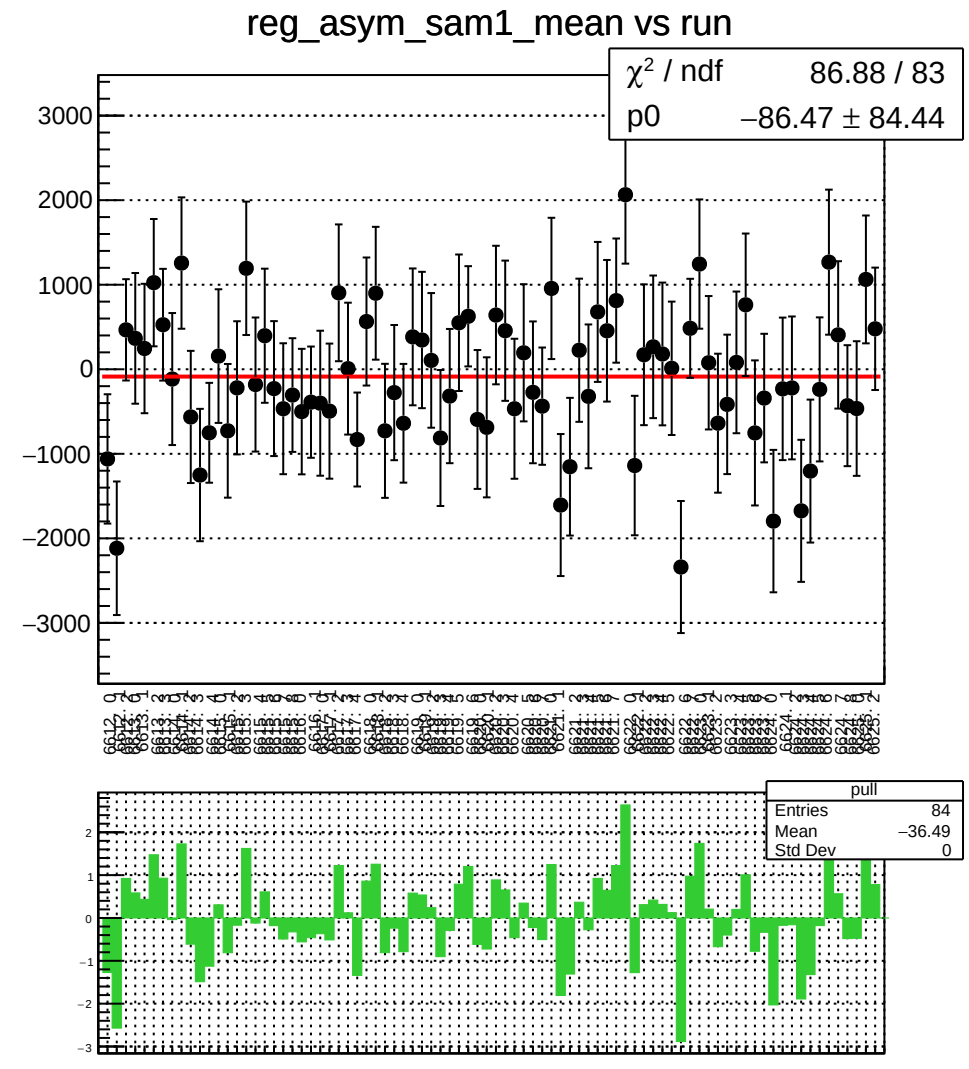

pull1D
Entries 84
Mean −1.532
Std Dev 1.603
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

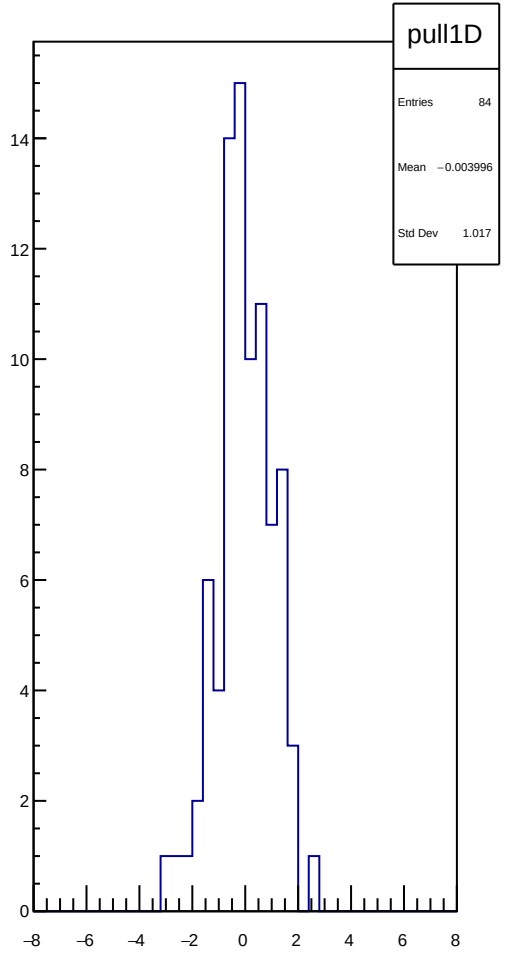

yield_sam7_rms vs run
χ^2 / ndf 3.684e+05 / 83
p0 0.002477 ± 2.203e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

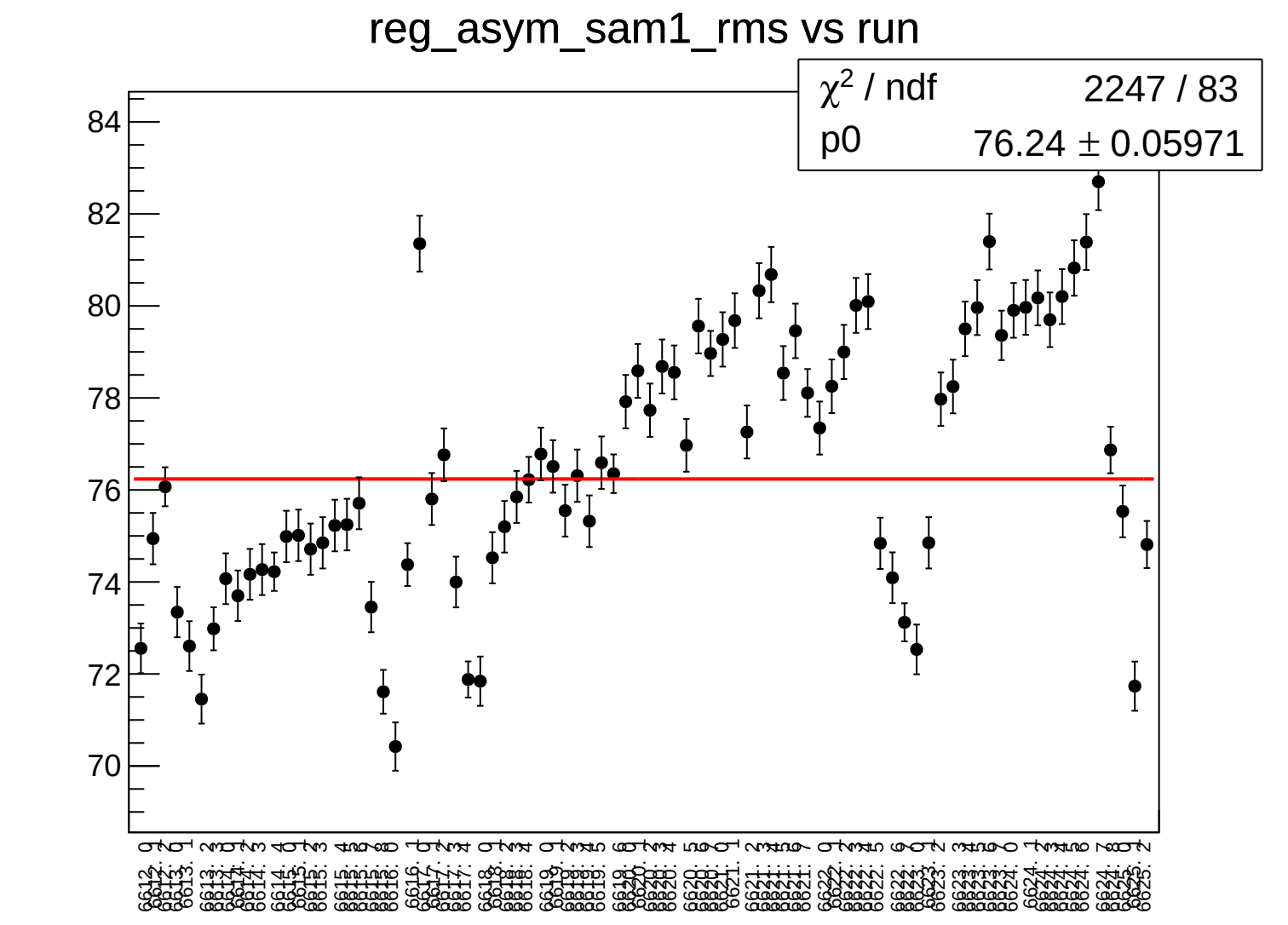

yield_sam8_mean vs run
χ² / ndf 5.306e+07 / 83
p0 9.652 ± 6.419e−06
9.85
9.8
9.75
9.7
9.65
9.6
pull
Entries 84
Mean −288.5
Std Dev 0
3000
2000
1000
0
−1000

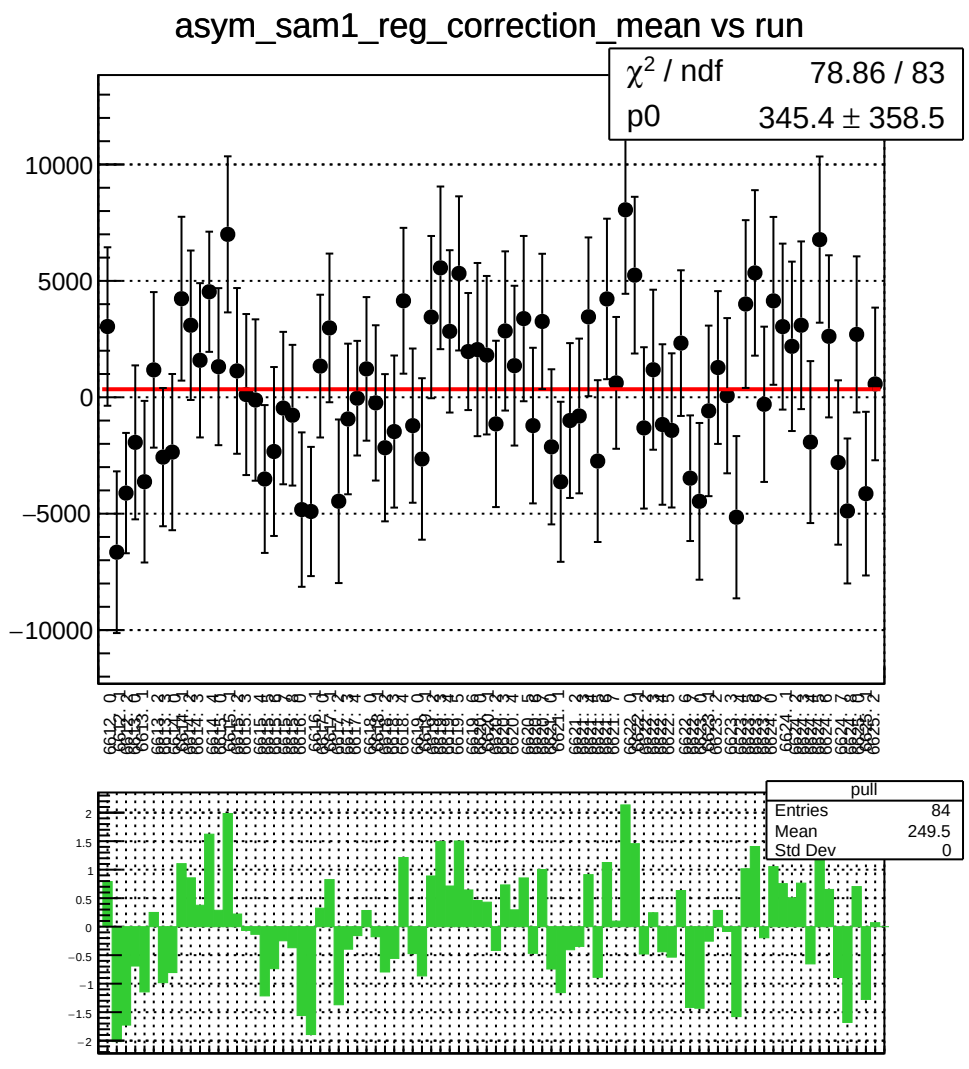

pull1D
Entries 84
Mean 4.043
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

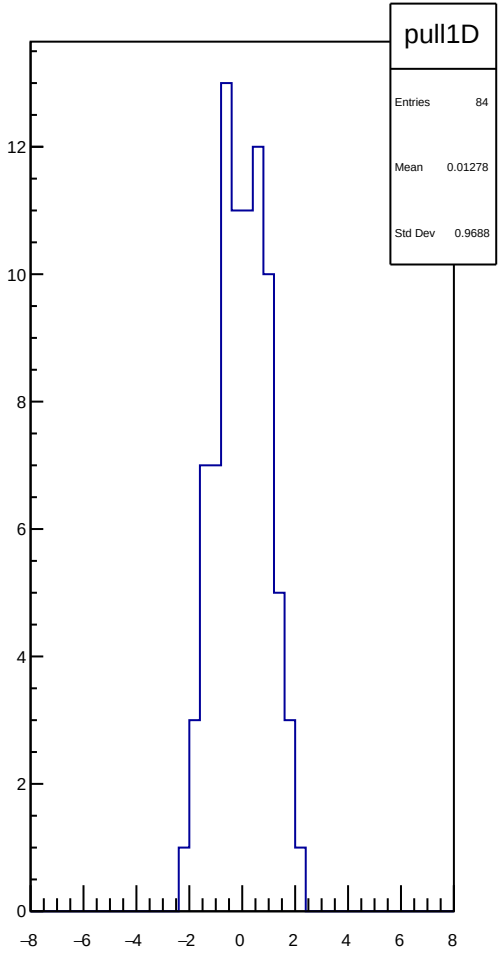

yield_sam8_rms vs run
χ^2 / ndf 3.941e+05 / 83
p0 0.005051 ± 4.539e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

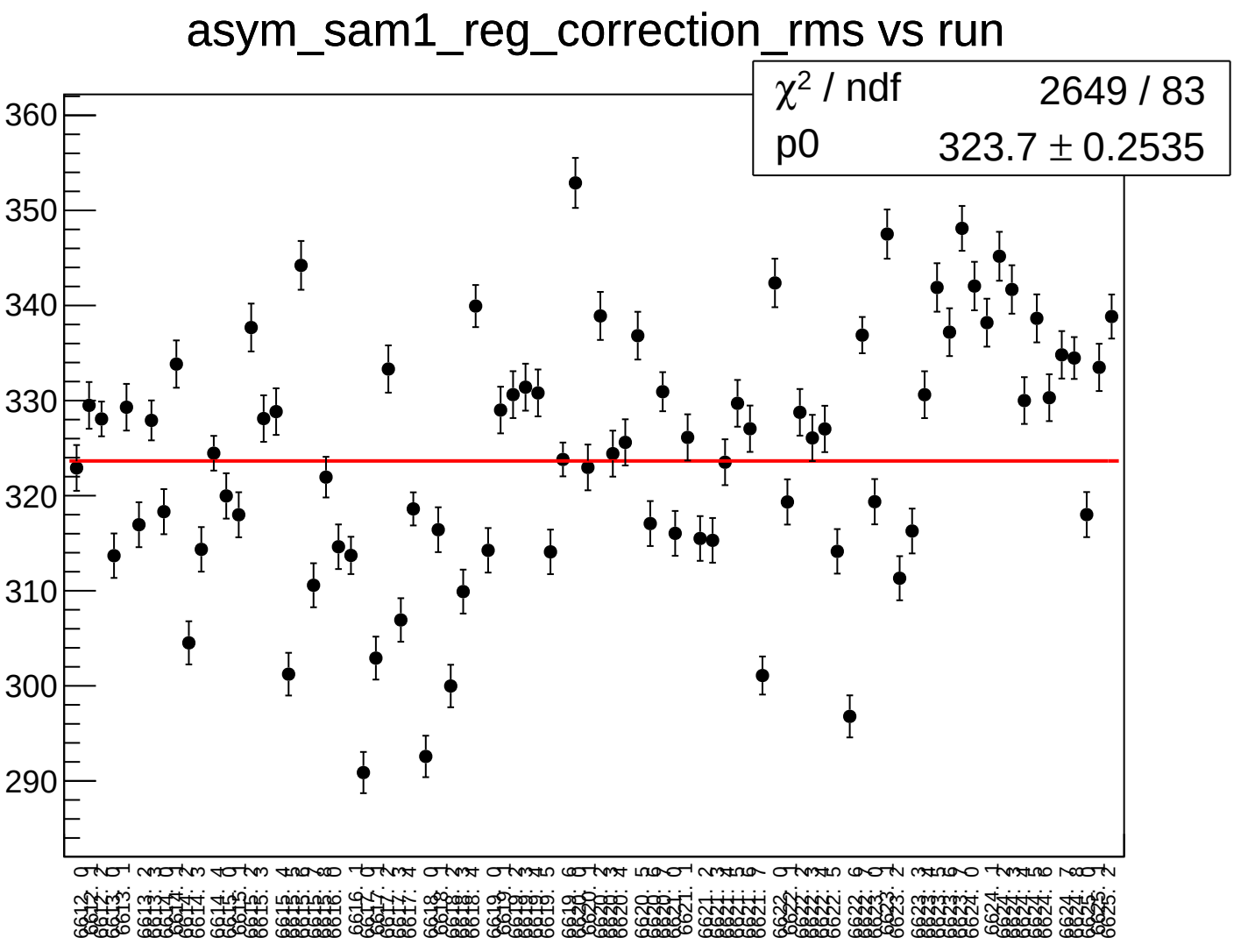

reg_asym_sam1_mean vs run
χ² / ndf 86.88 / 83
p0 −86.47 ± 84.44
pull
Entries 84
Mean −36.49
Std Dev 0

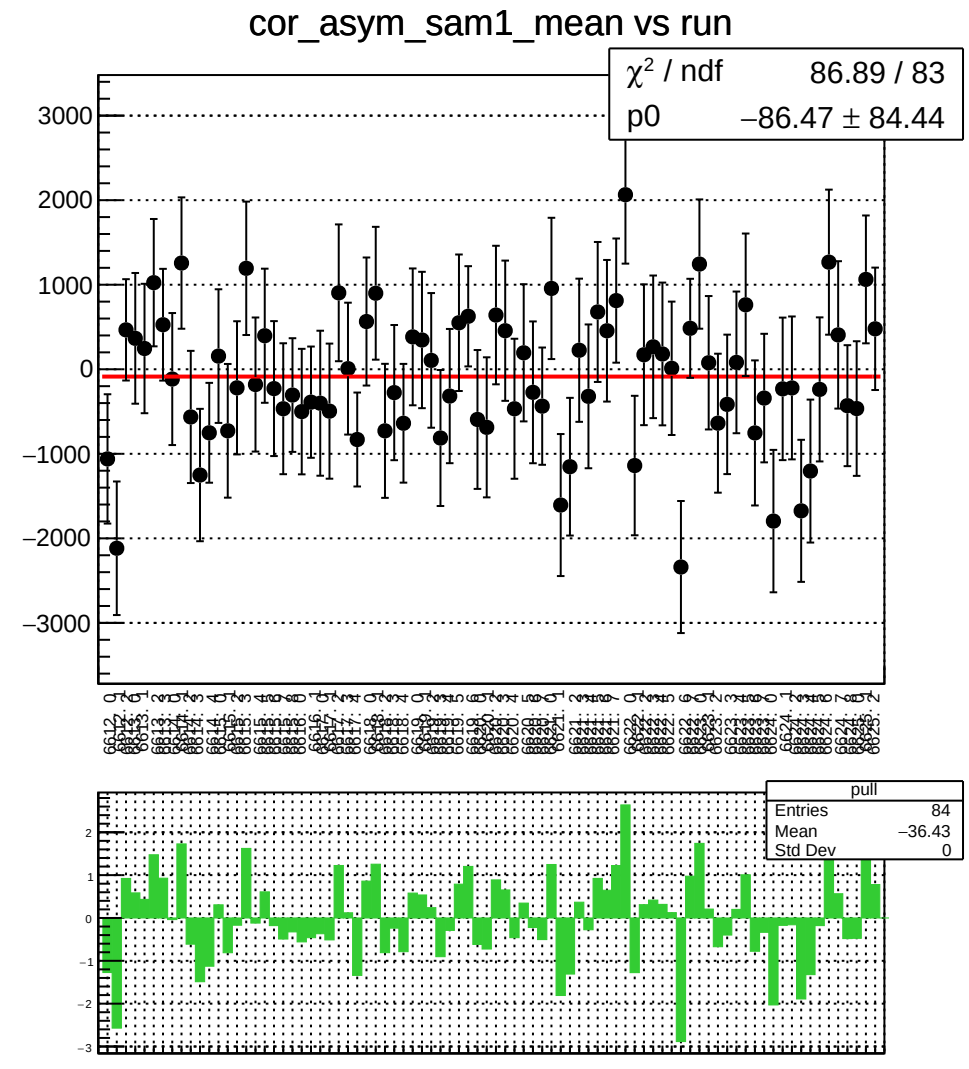

pull1D
Entries 84
Mean −0.003996
Std Dev 1.017

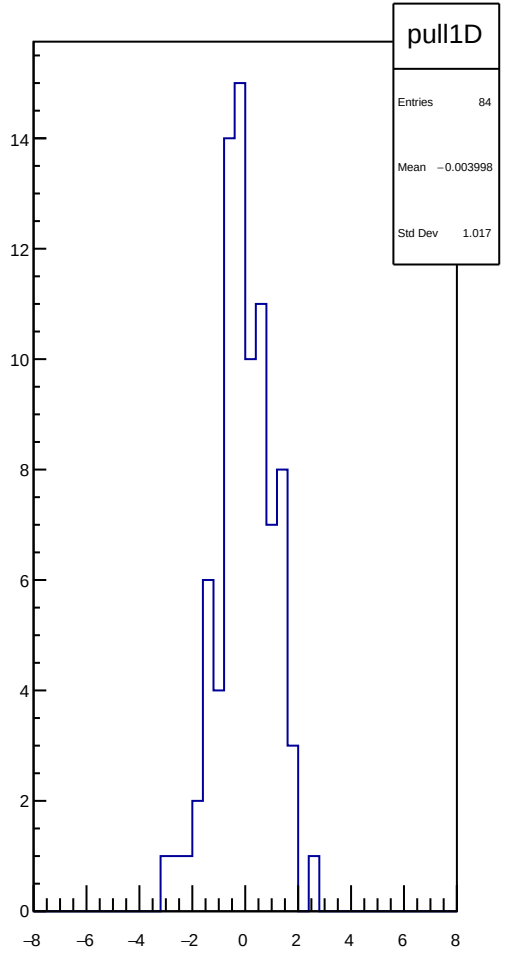

reg_asym_sam1_rms vs run
χ^2 / ndf 2247 / 83
p0 76.24 ± 0.05971
84
82
80
78
76
74
72
70

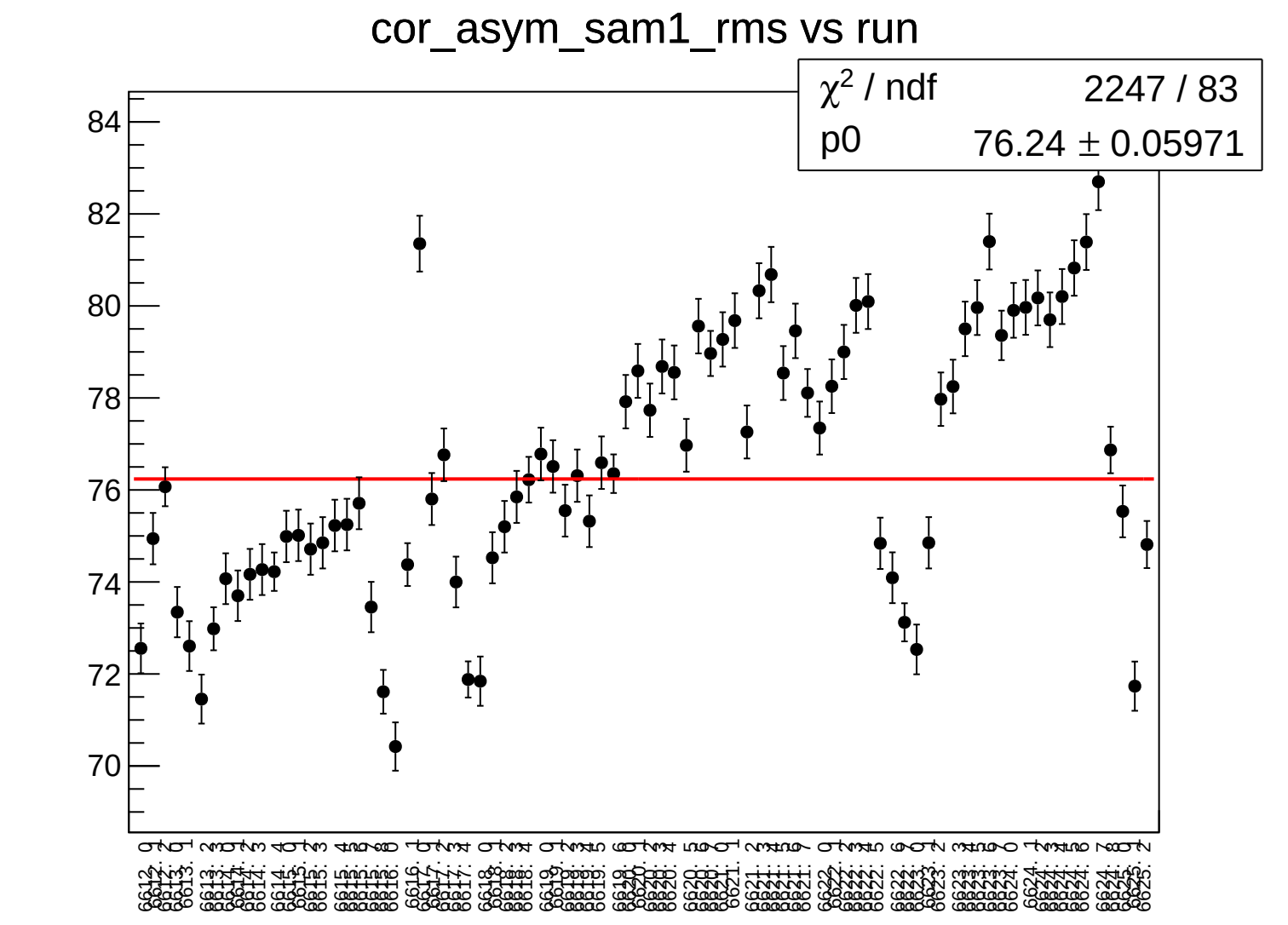

asym_sam1_reg_correction_mean vs run
χ² / ndf 78.86 / 83
p0 345.4 ± 358.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 249.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

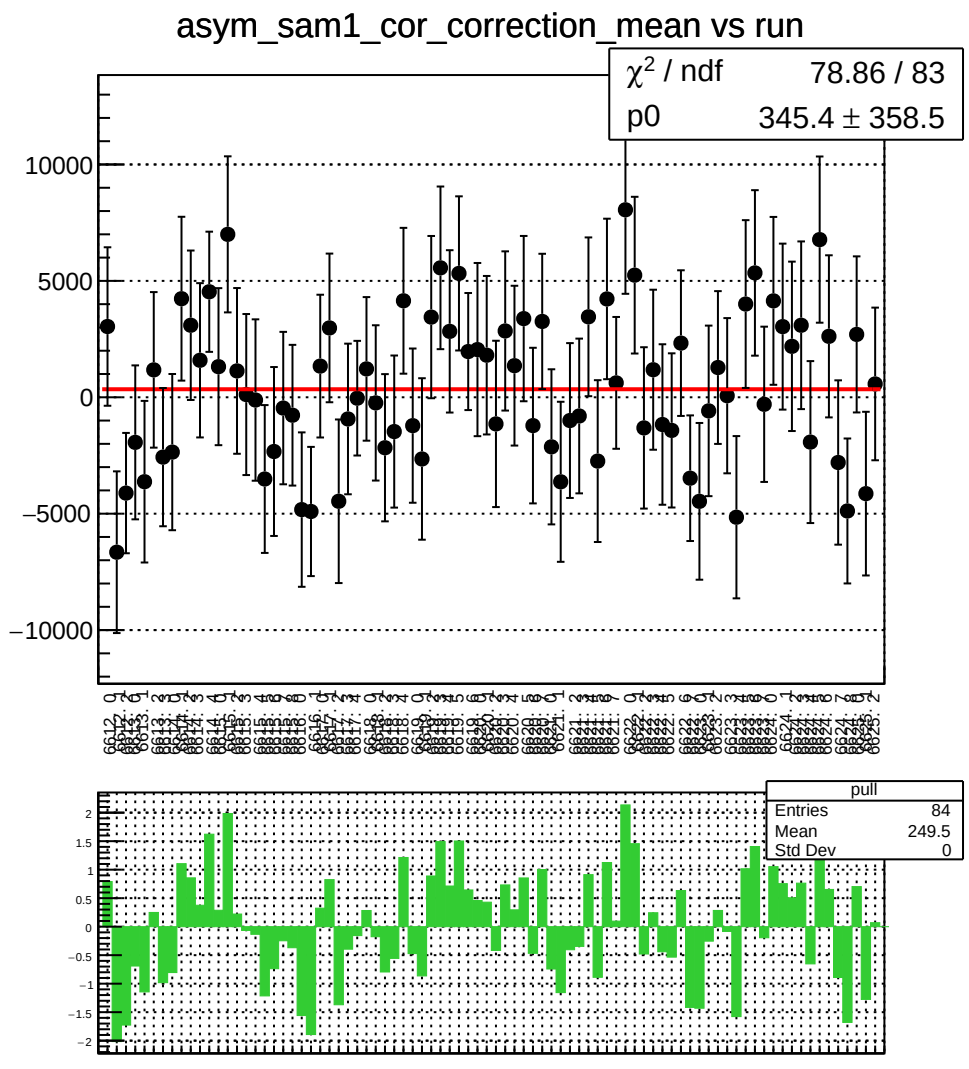

pull1D
Entries 84
Mean 0.01278
Std Dev 0.9688
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

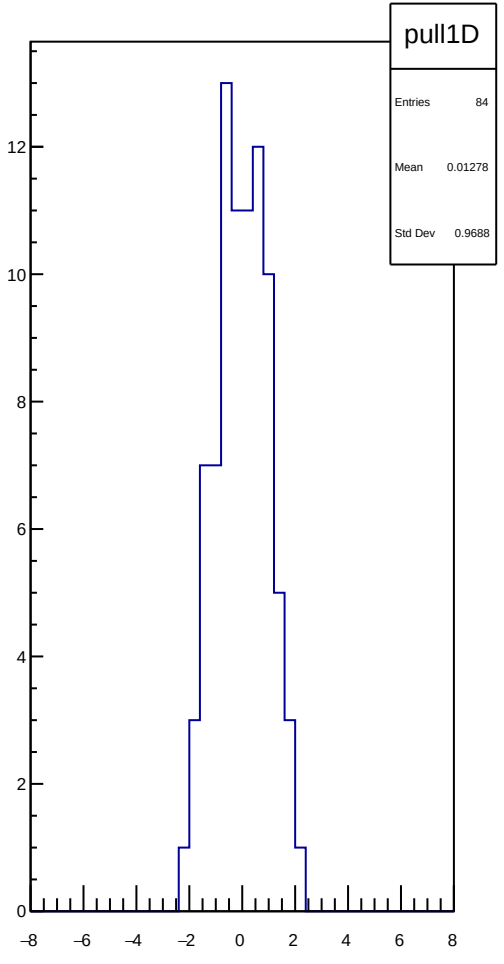

asym_sam1_reg_correction_rms vs run
χ² / ndf 2649 / 83
p0 323.7 ± 0.2535
360
350
340
330
320
310
300
290

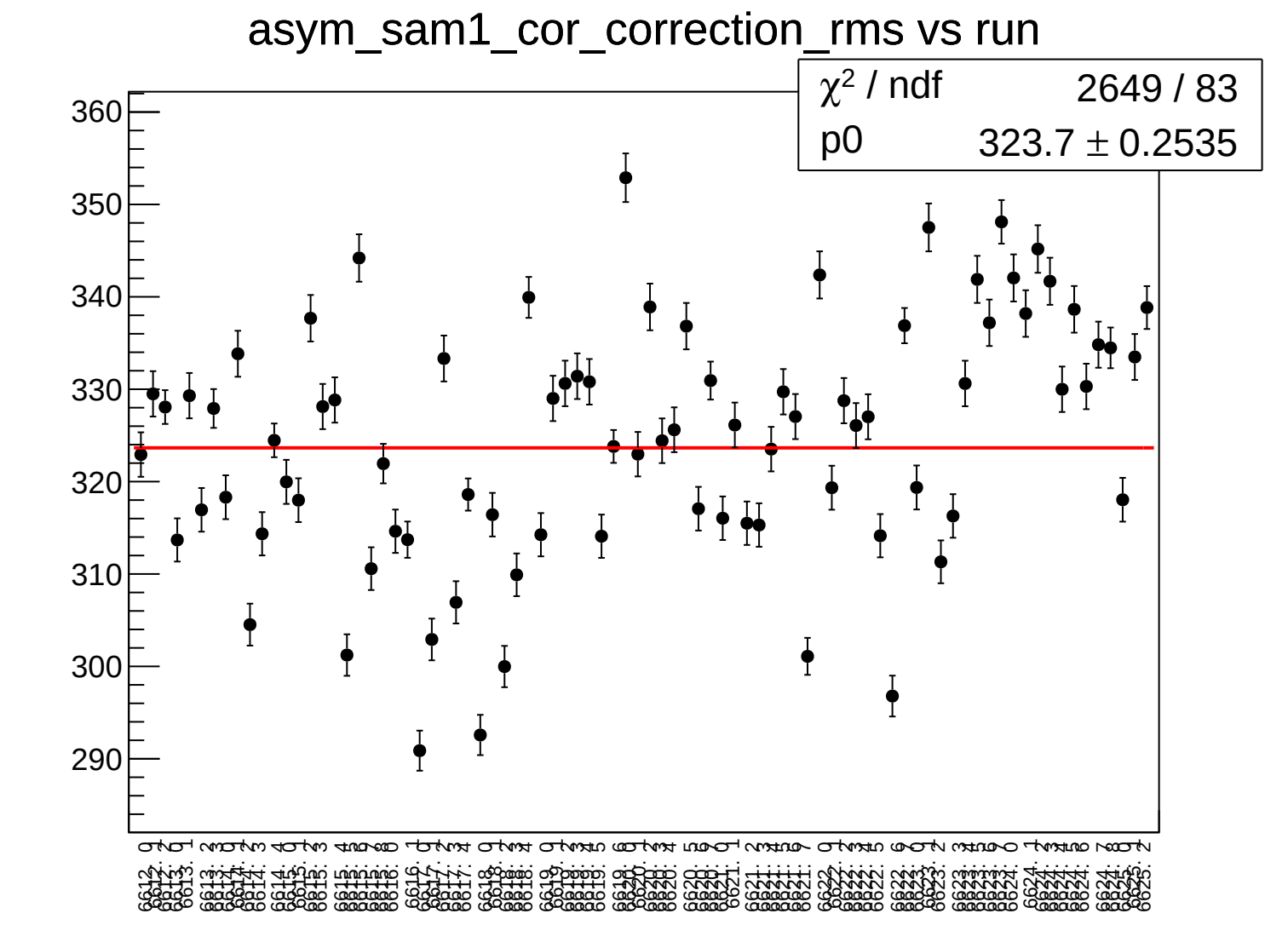

cor_asym_sam1_mean vs run
χ² / ndf 86.89 / 83
p0 −86.47 ± 84.44
pull
Entries 84
Mean −36.43
Std Dev 0

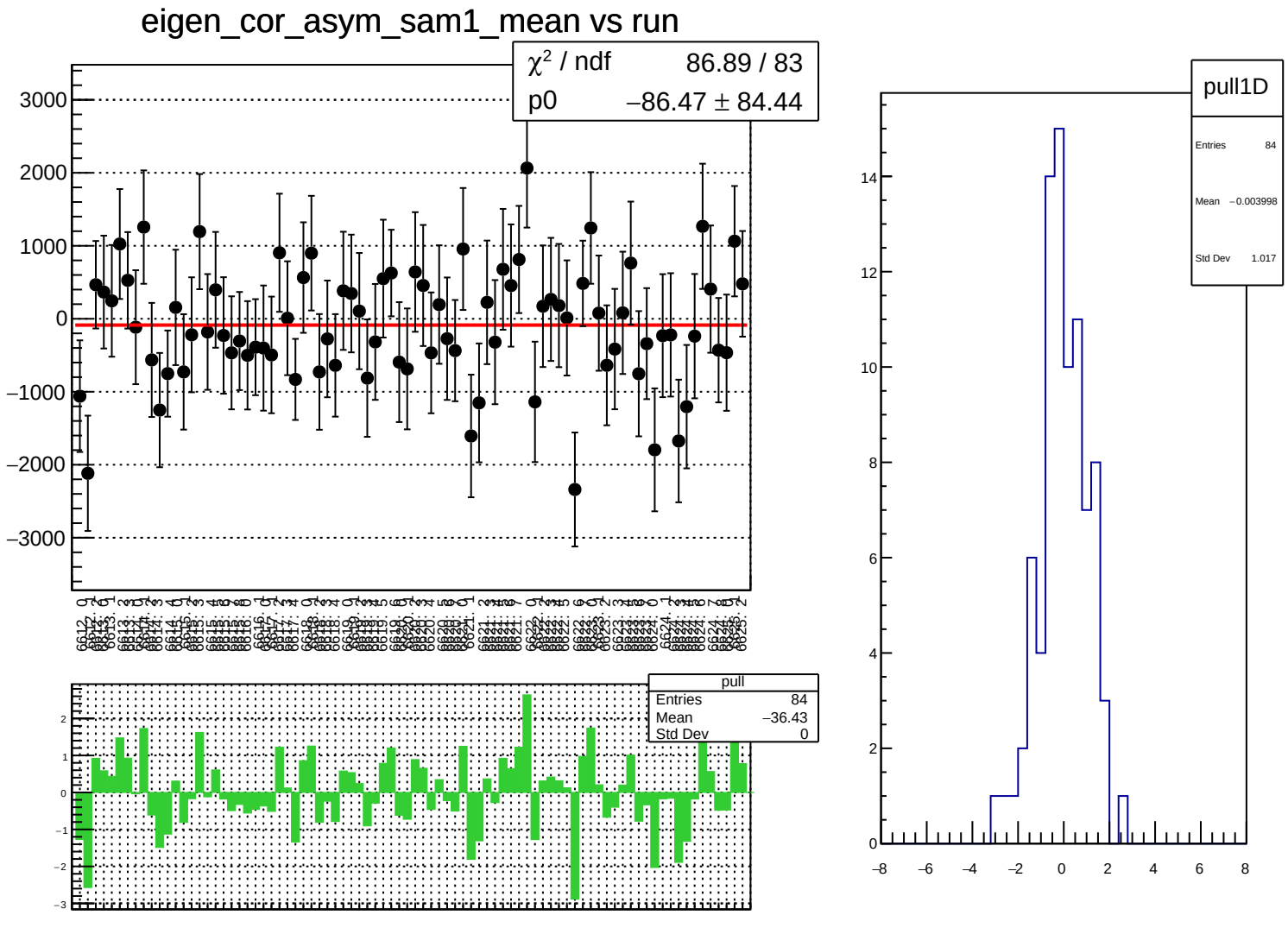

pull1D
Entries 84
Mean −0.003998
Std Dev 1.017

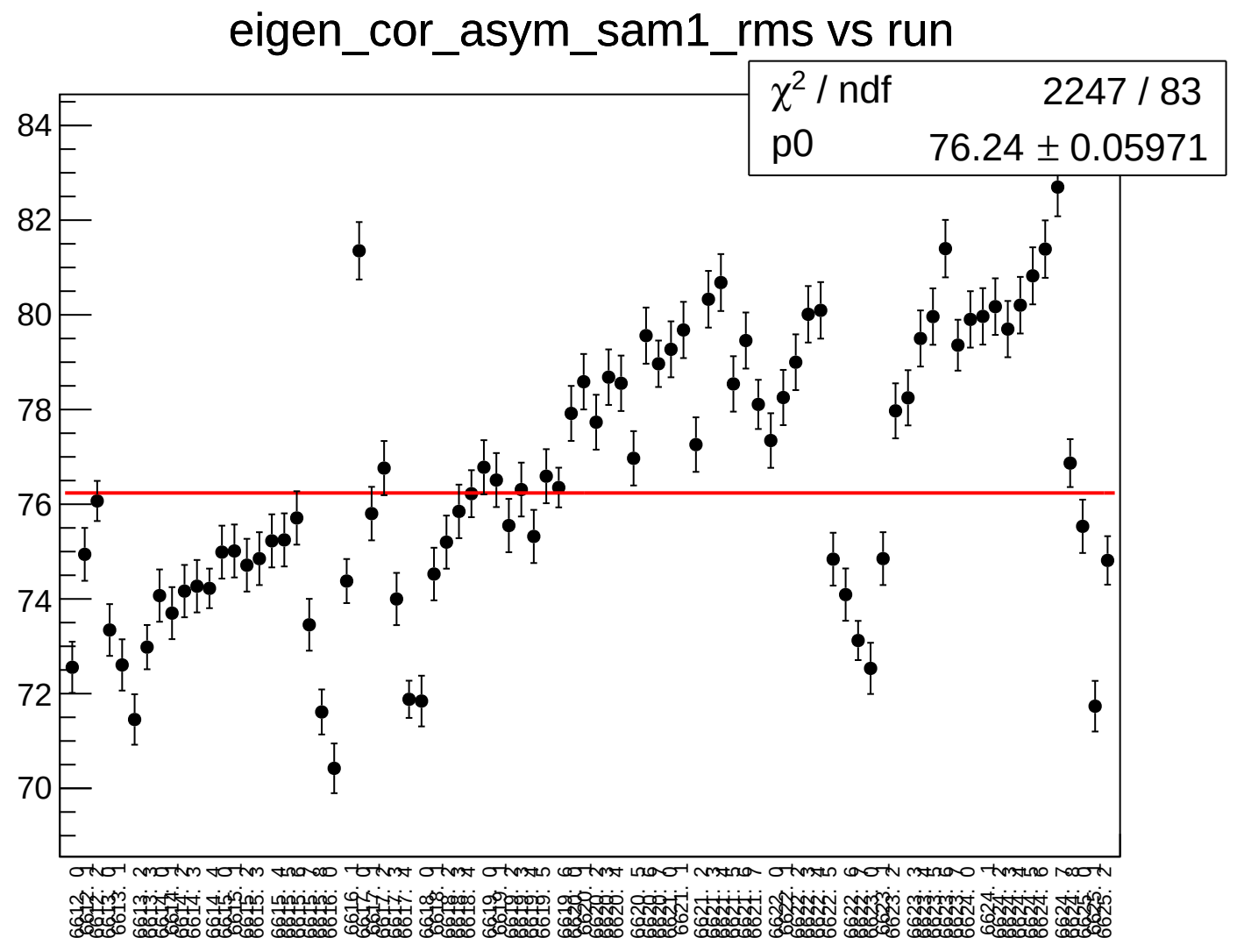

cor_asym_sam1_rms vs run
χ² / ndf 2247 / 83
p0 76.24 ± 0.05971
84
82
80
78
76
74
72
70

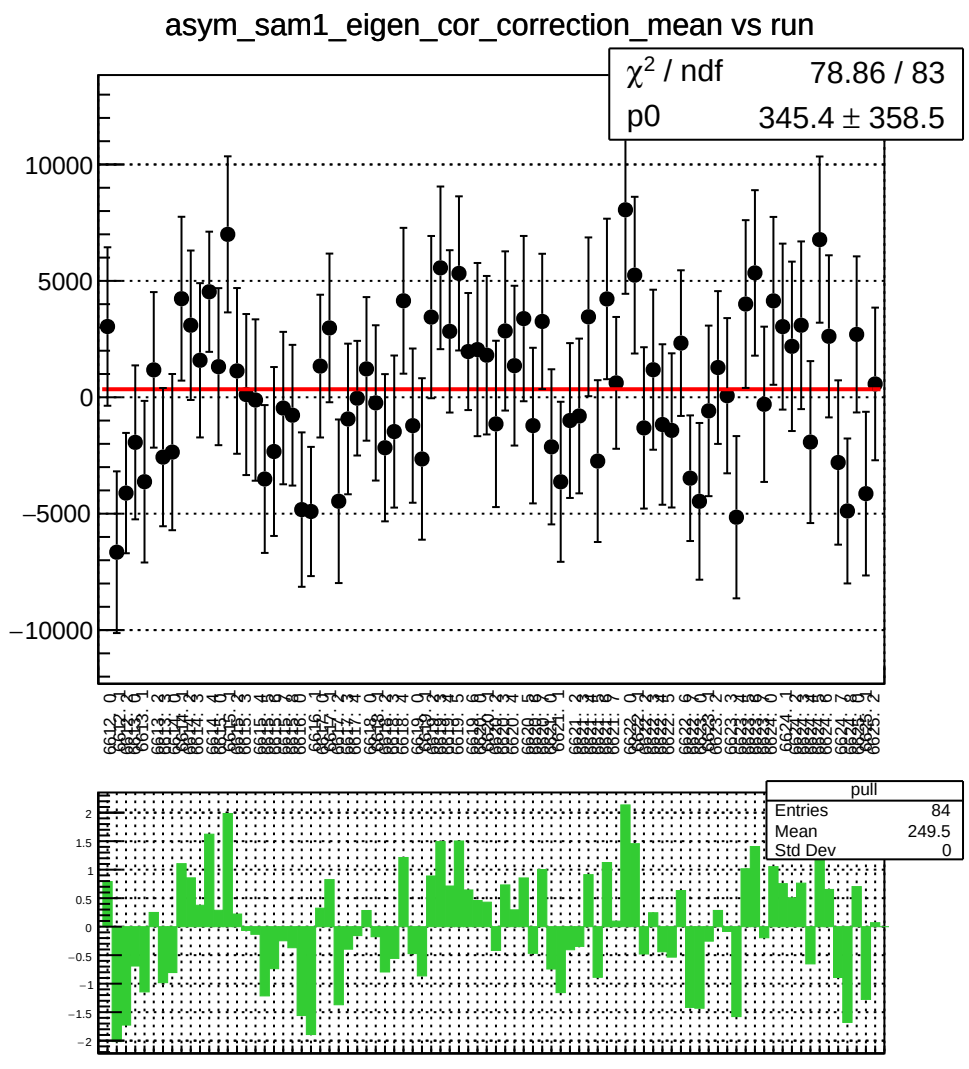

asym_sam1_cor_correction_mean vs run
χ² / ndf 78.86 / 83
p0 345.4 ± 358.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 249.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

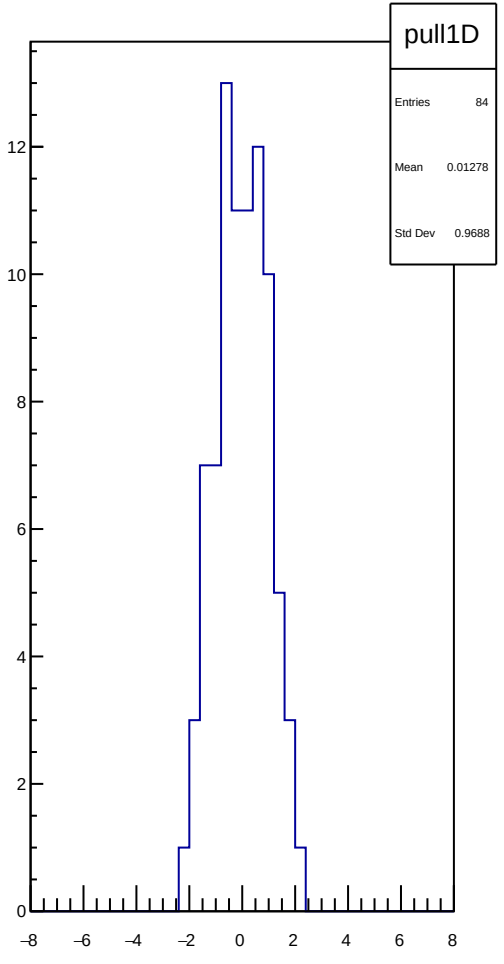

pull1D
Entries 84
Mean 0.01278
Std Dev 0.9688
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

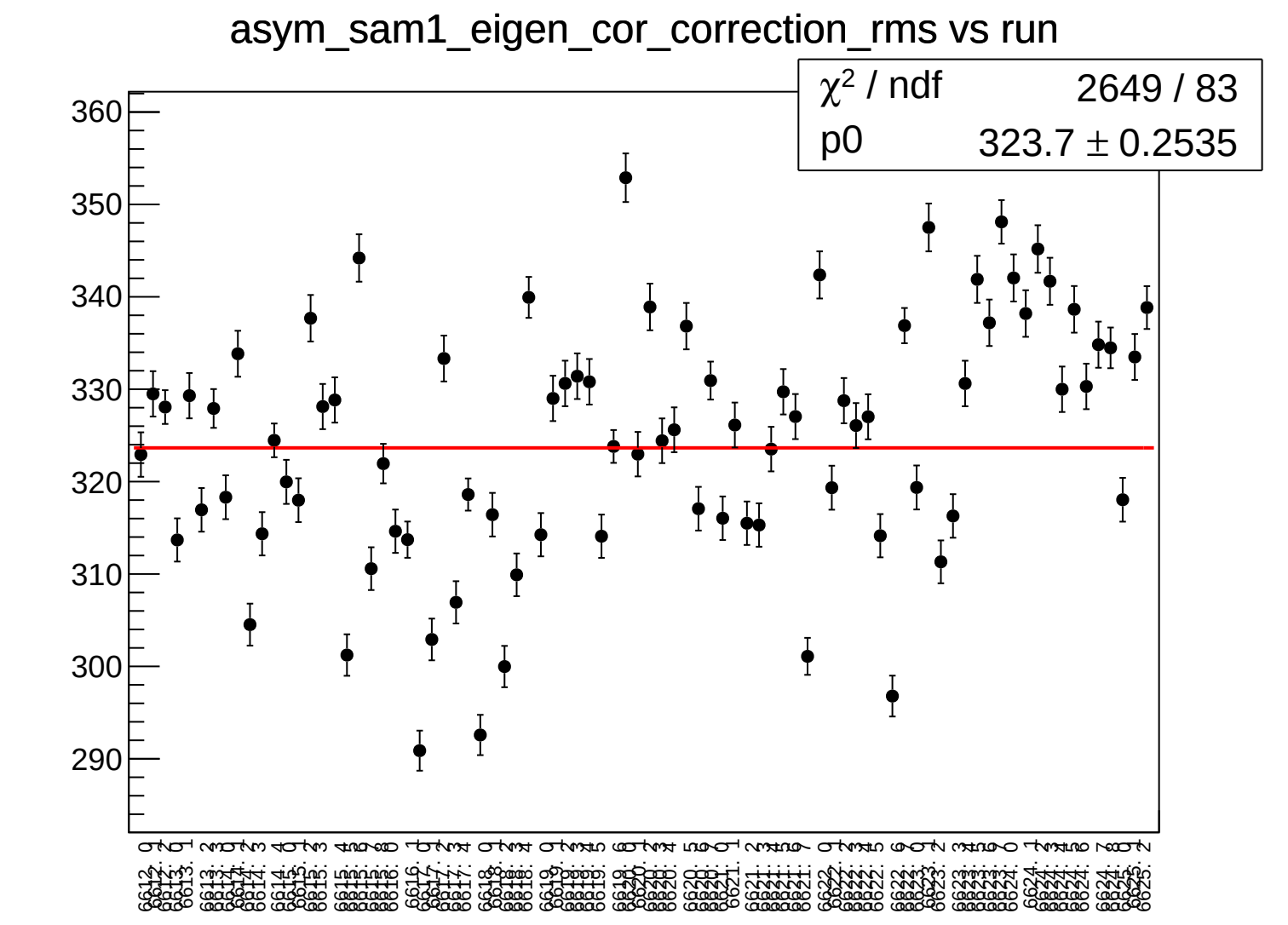

asym_sam1_cor_correction_rms vs run
χ² / ndf 2649 / 83
p0 323.7 ± 0.2535
360
350
340
330
320
310
300
290

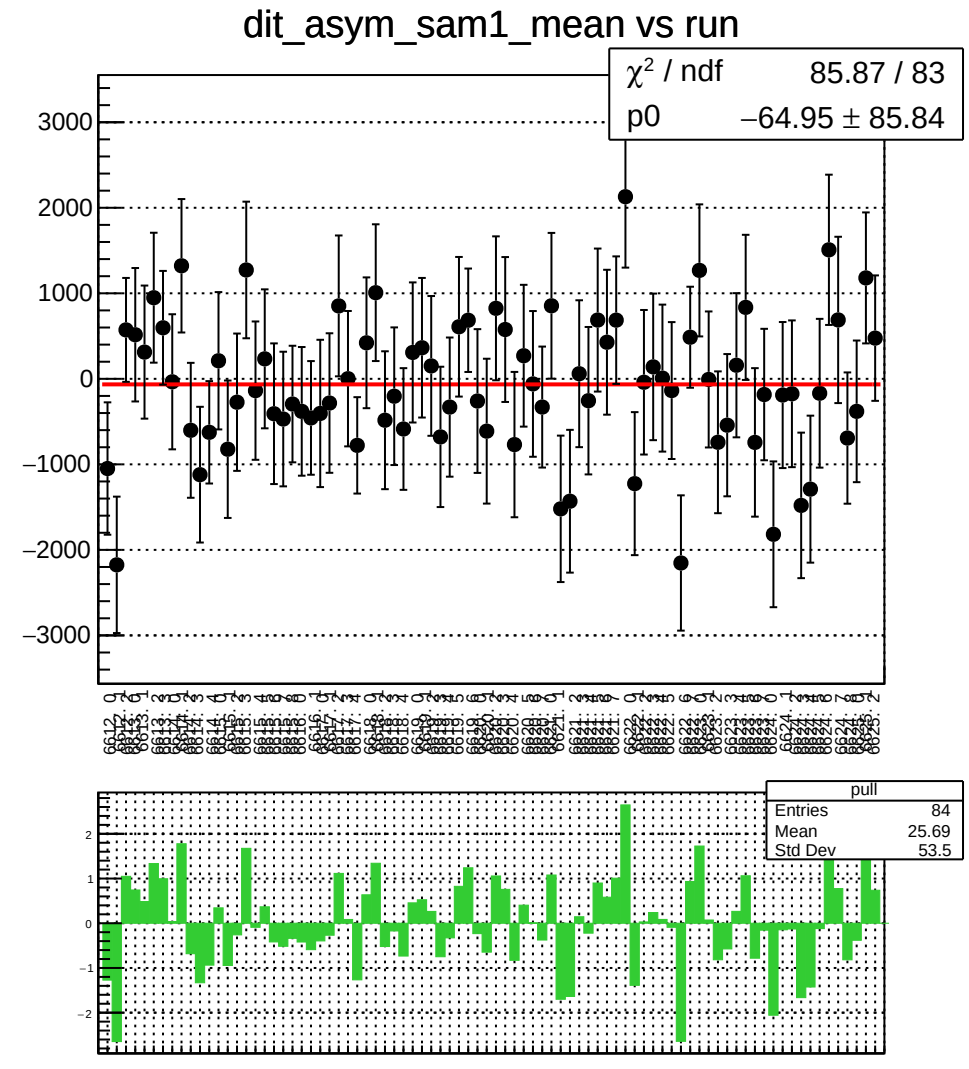

eigen_cor_asym_sam1_mean vs run
χ² / ndf 86.89 / 83
p0 −86.47 ± 84.44
pull
Entries 84
Mean −36.43
Std Dev 0
pull1D
Entries 84
Mean −0.003998
Std Dev 1.017

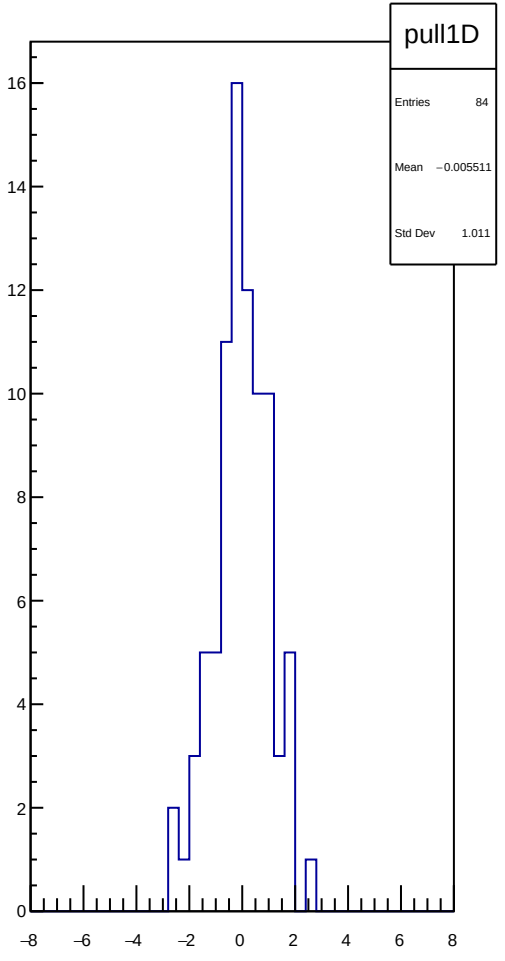

eigen_cor_asym_sam1_rms vs run
χ² / ndf 2247 / 83
p0 76.24 ± 0.05971
84
82
80
78
76
74
72
70

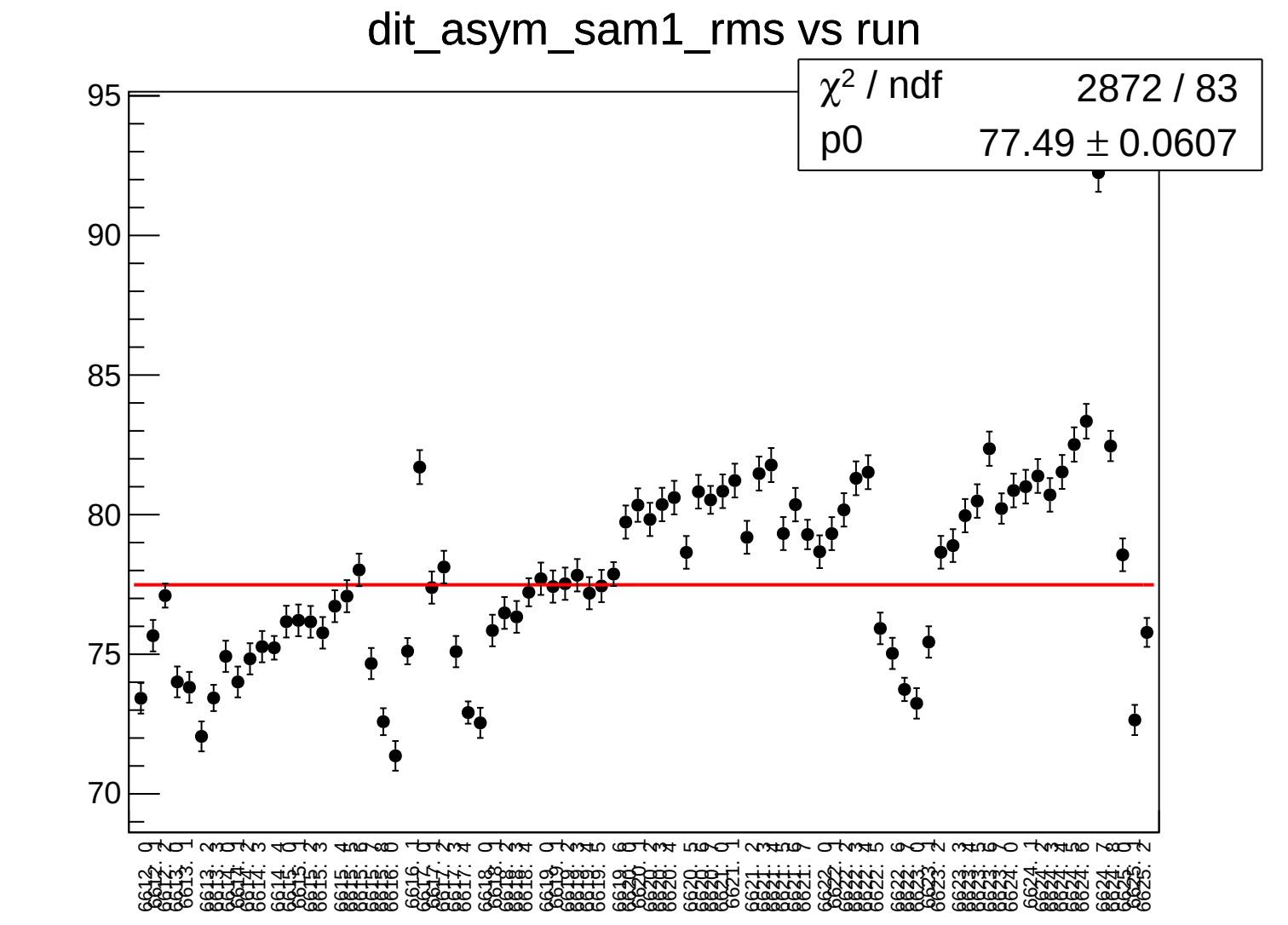

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 78.86 / 83
p0 345.4 ± 358.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 249.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

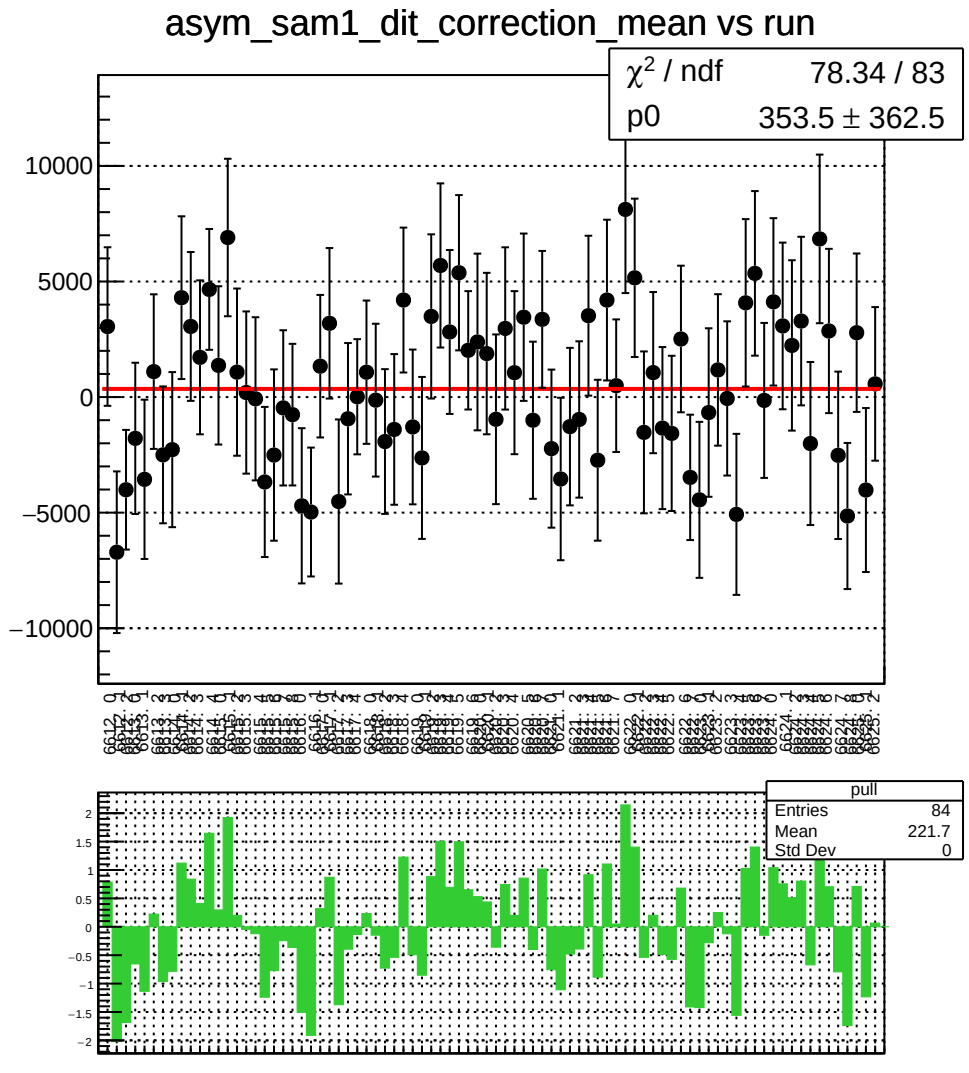

pull1D
Entries 84
Mean 0.01278
Std Dev 0.9688
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

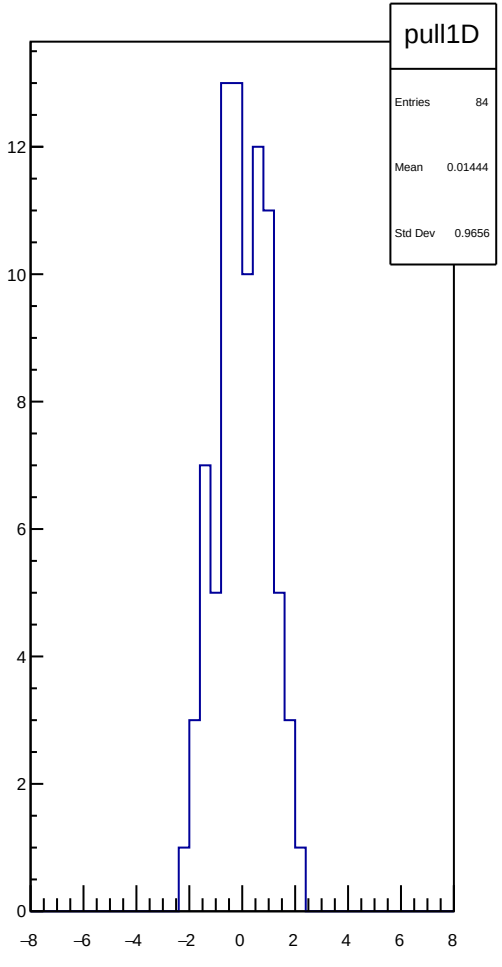

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 2649 / 83
p0 323.7 ± 0.2535
360
350
340
330
320
310
300
290


dit_asym_sam1_mean vs run
χ² / ndf 85.87 / 83
p0 −64.95 ± 85.84
pull
Entries 84
Mean 25.69
Std Dev 53.5

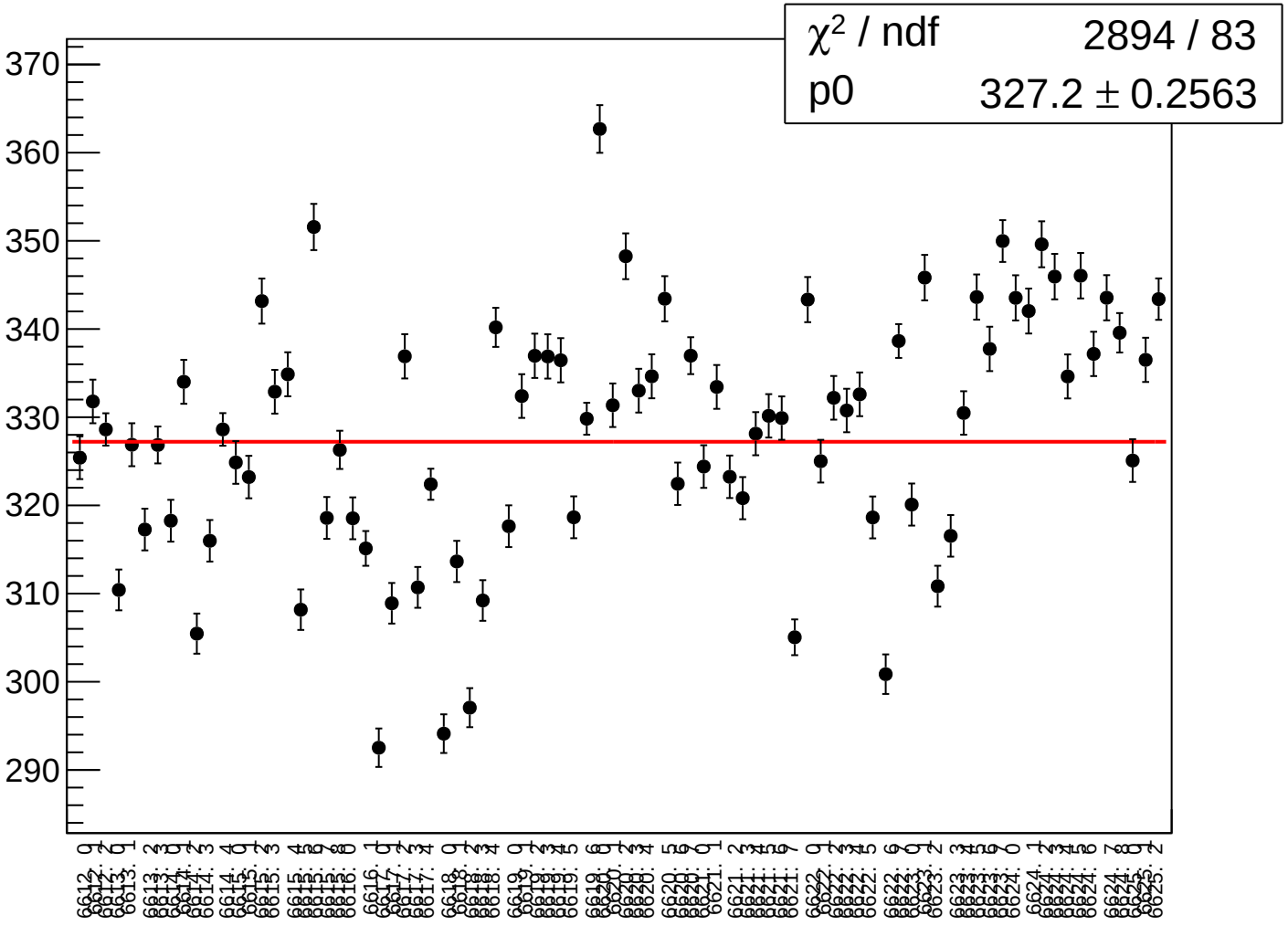

pull1D
Entries 84
Mean −0.005511
Std Dev 1.011

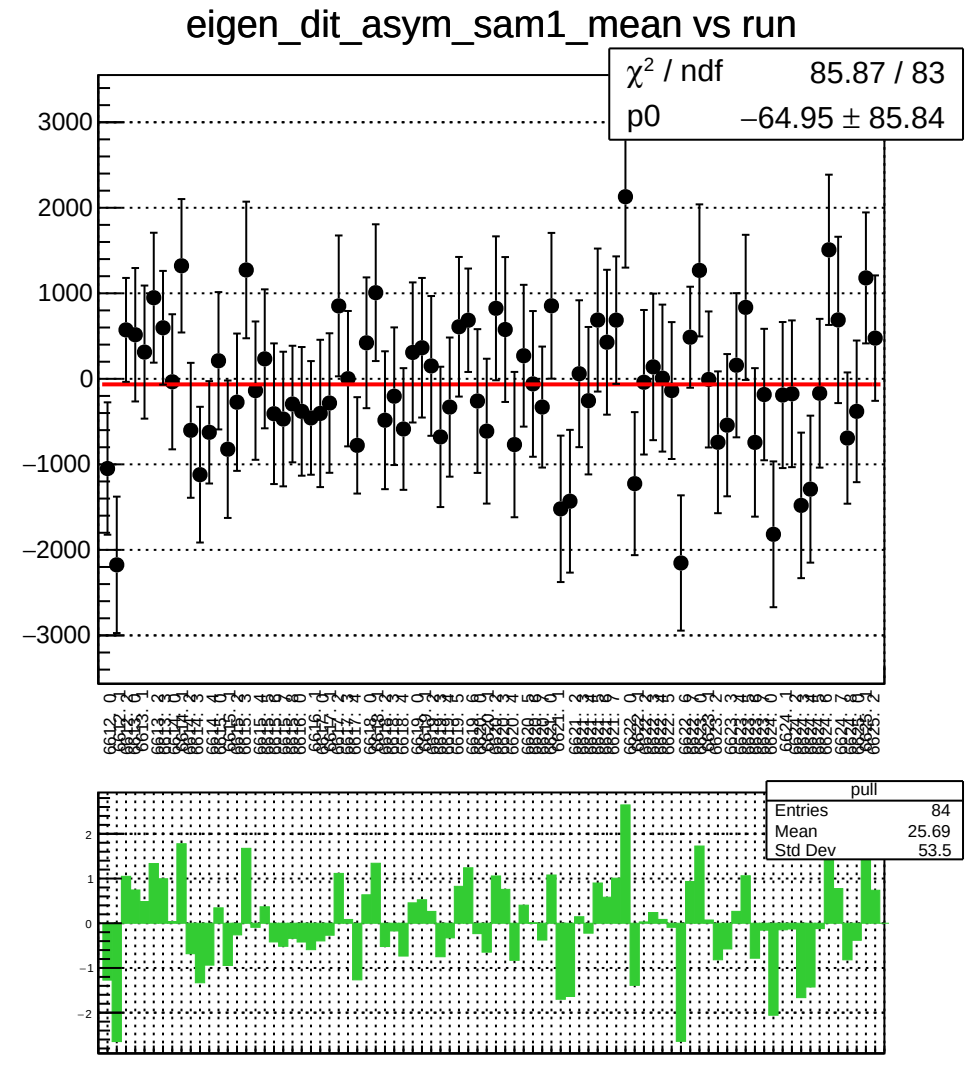

dit_asym_sam1_rms vs run
χ^2 / ndf 2872 / 83
p0 77.49 ± 0.0607
95
90
85
80
75
70

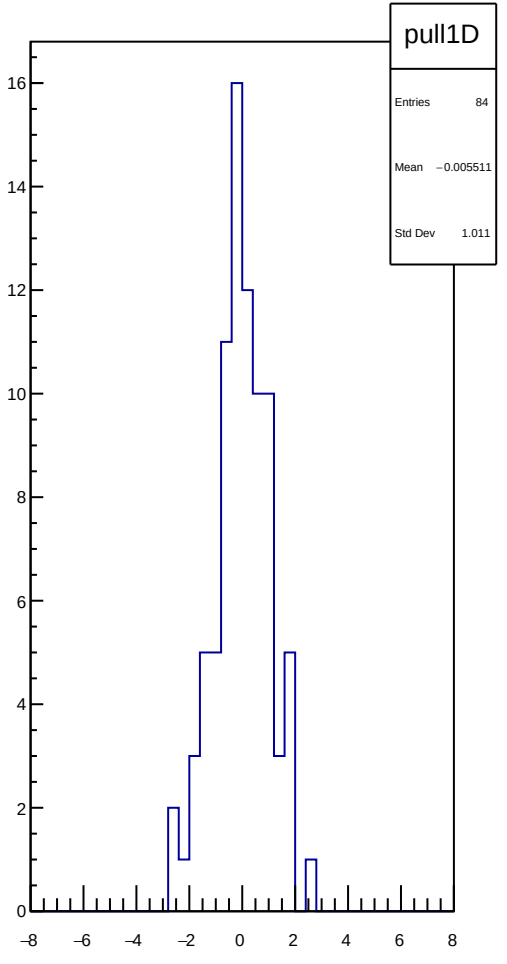

asym_sam1_dit_correction_mean vs run
χ² / ndf 78.34 / 83
p0 353.5 ± 362.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 221.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

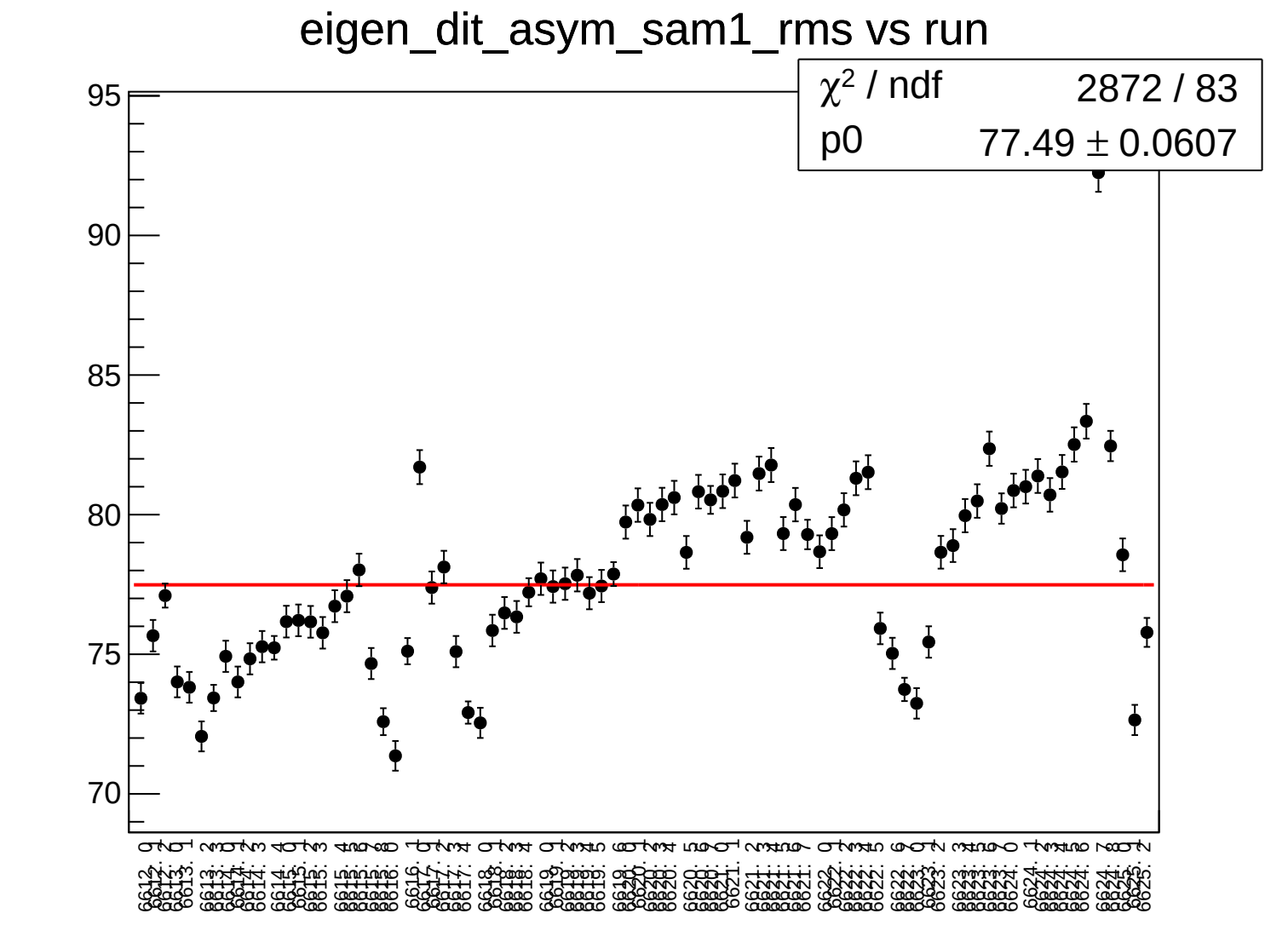

pull1D
Entries 84
Mean 0.01444
Std Dev 0.9656
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

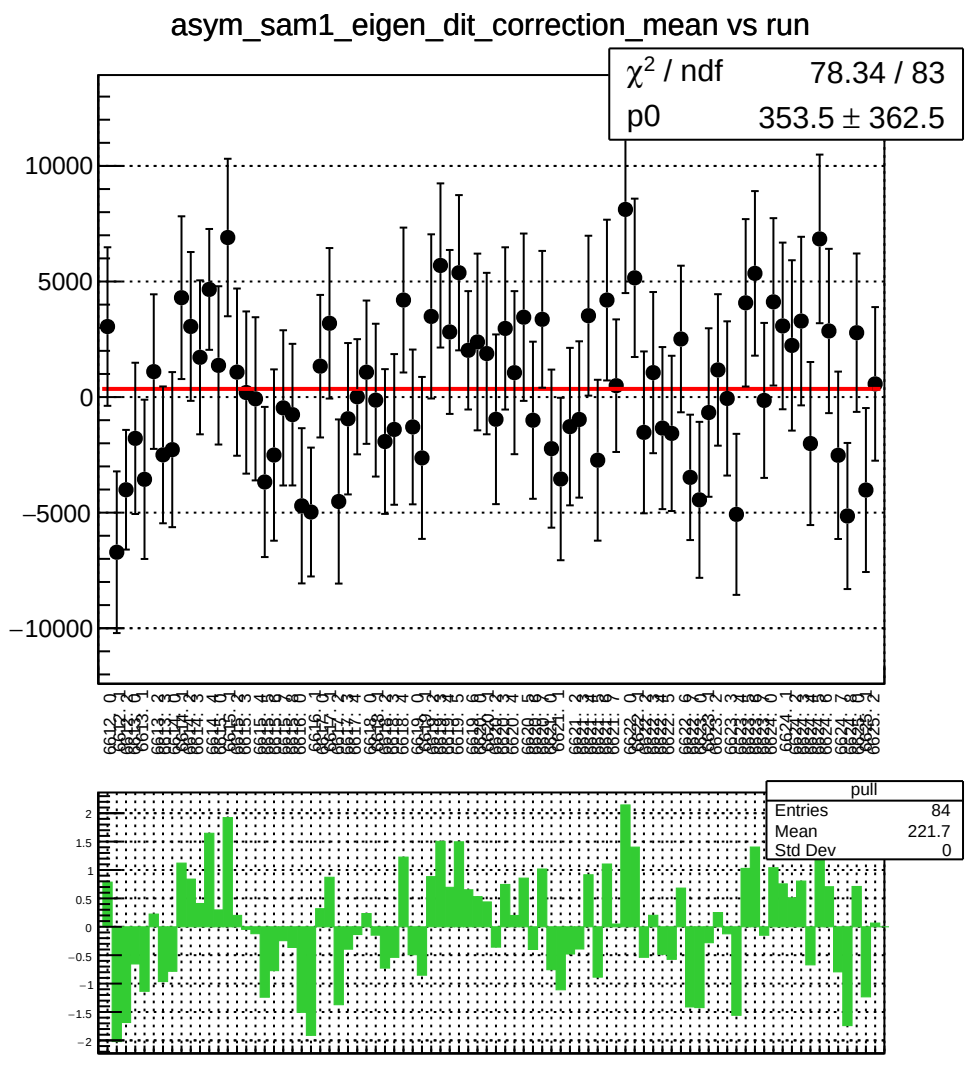
asym_sam1_dit_correction_rms vs run

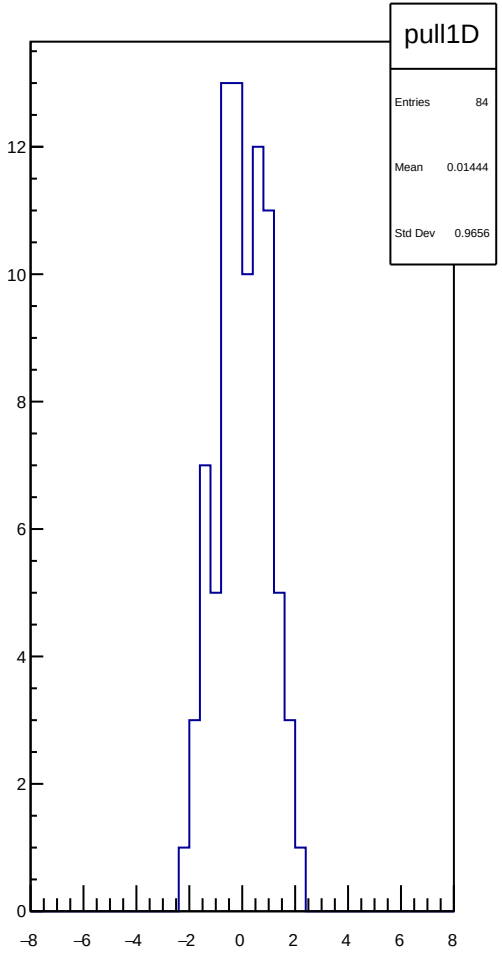


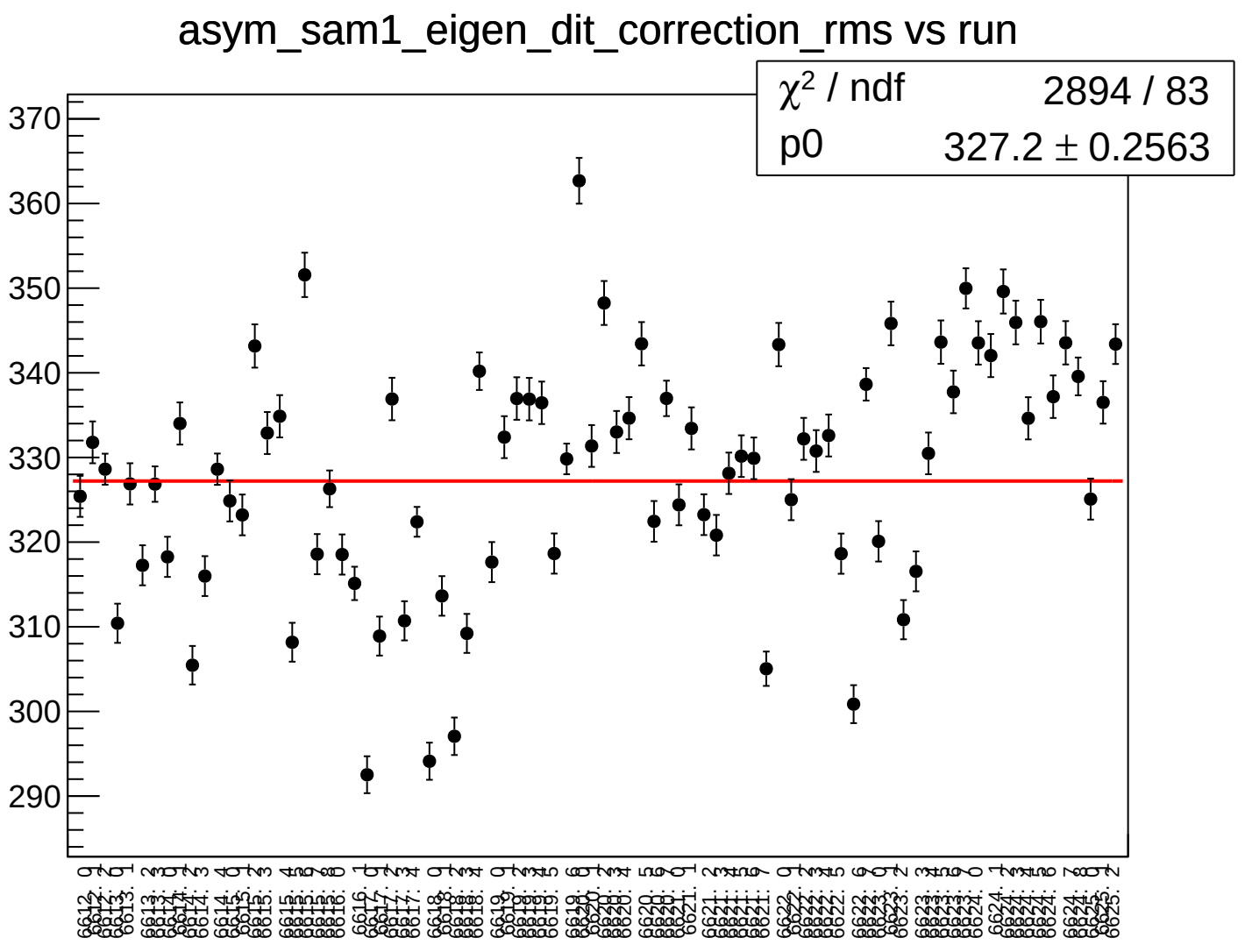

eigen_dit_asym_sam1_mean vs run
χ² / ndf 85.87 / 83
p0 −64.95 ± 85.84
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 25.69
Std Dev 53.5
2
1
0
−1
−2

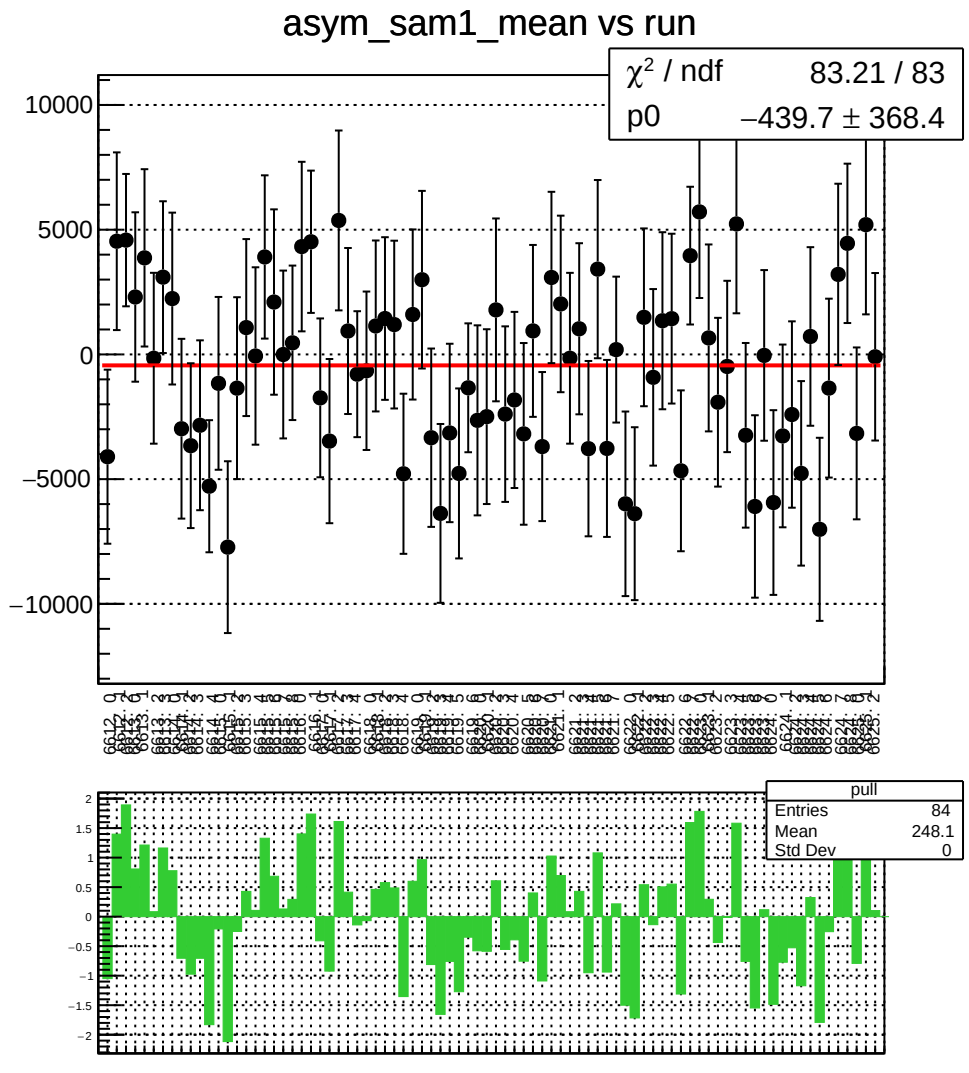

pull1D
Entries 84
Mean −0.005511
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

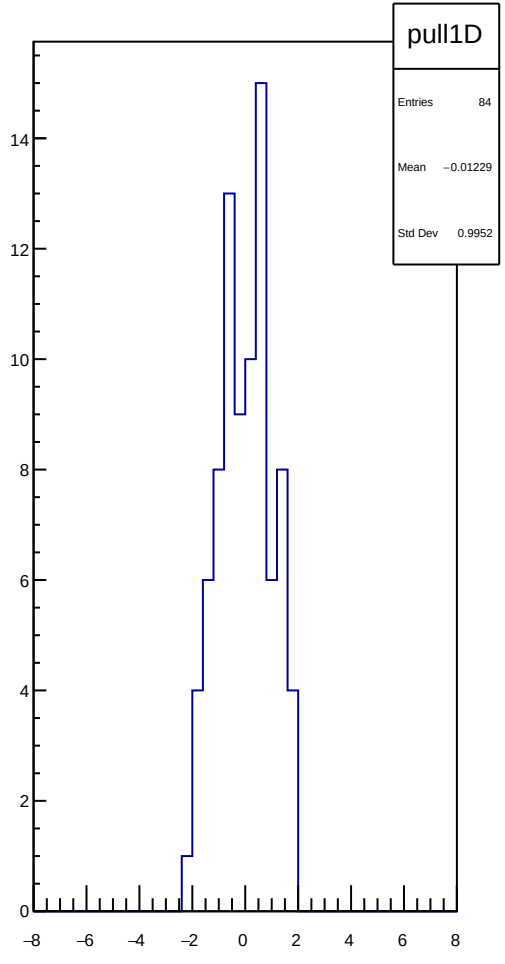

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 2872 / 83
p0 77.49 ± 0.0607
95
90
85
80
75
70

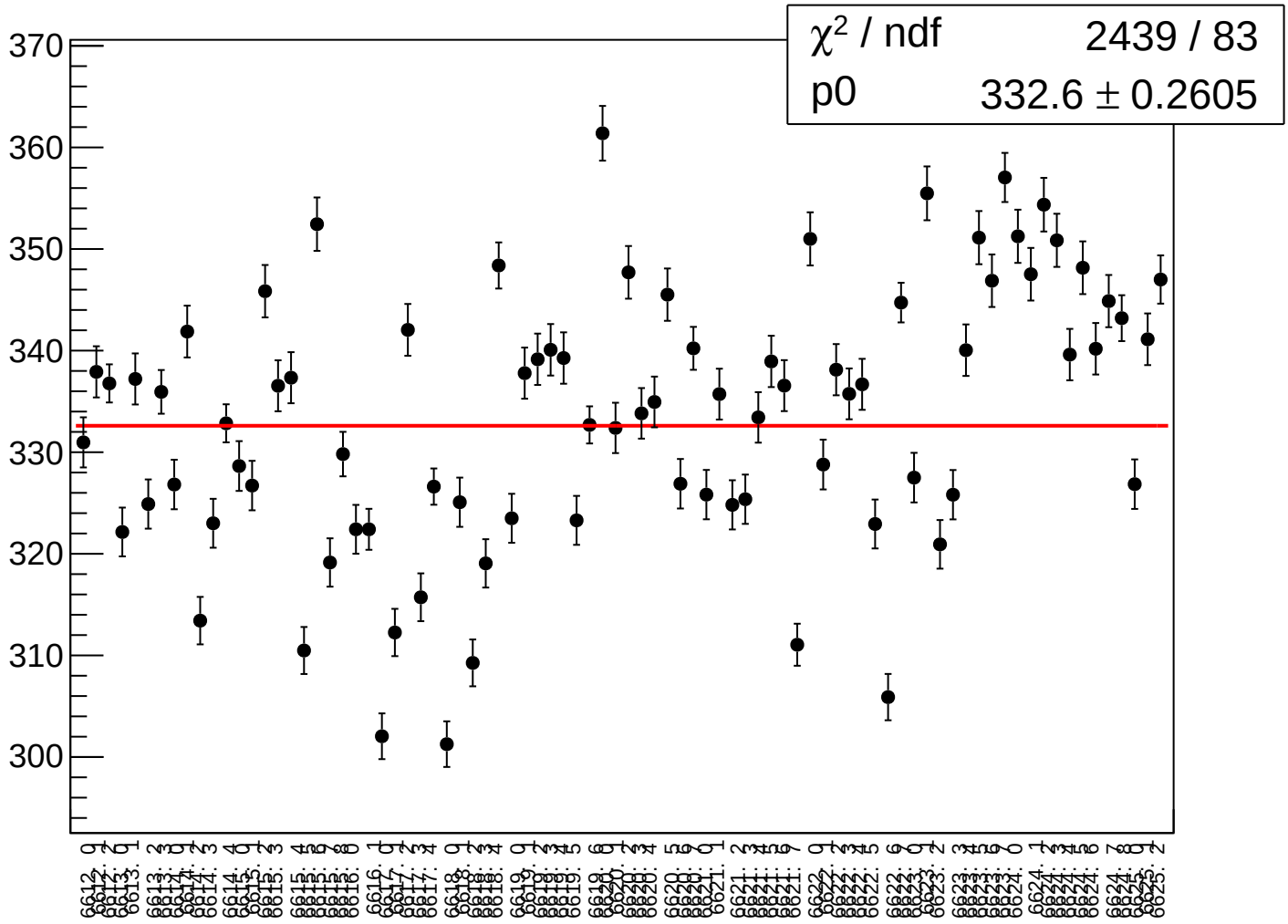

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 78.34 / 83
p0 353.5 ± 362.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 221.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

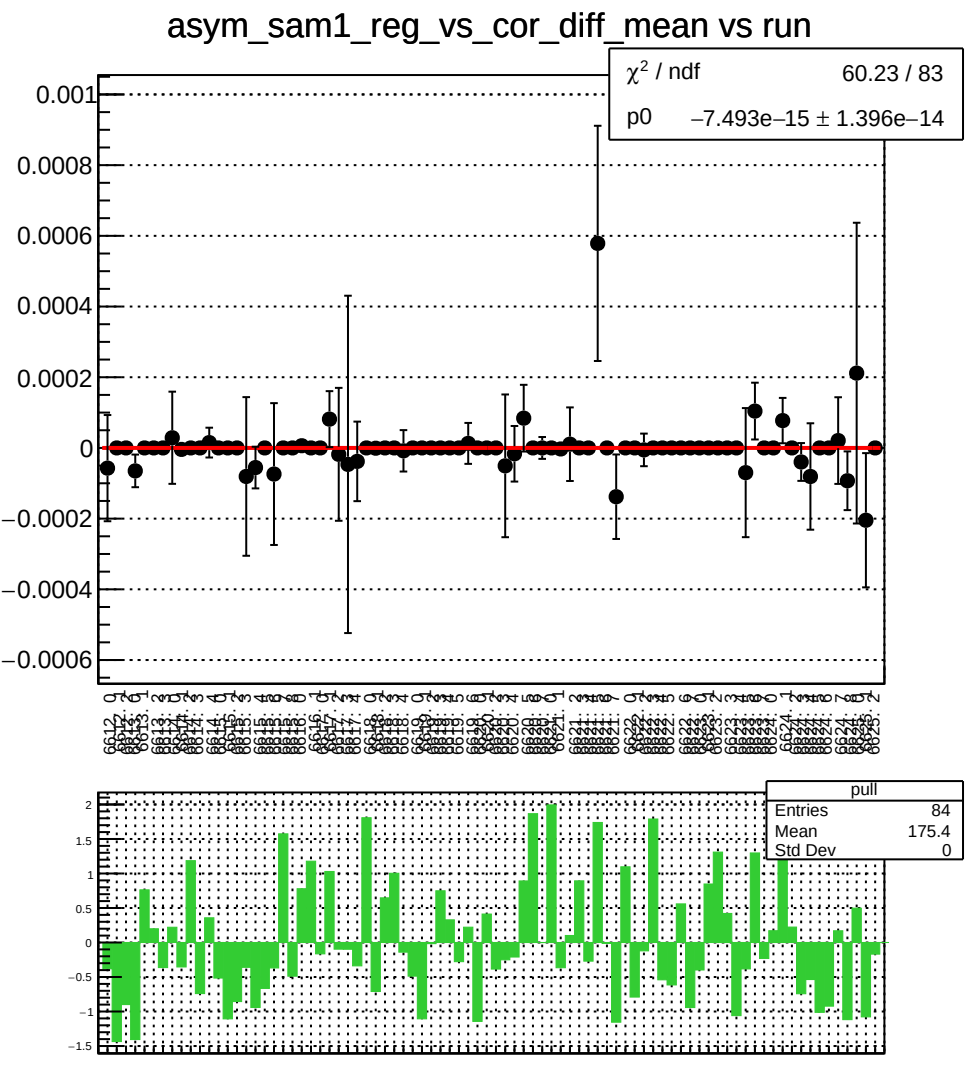

pull1D
Entries 84
Mean 0.01444
Std Dev 0.9656
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

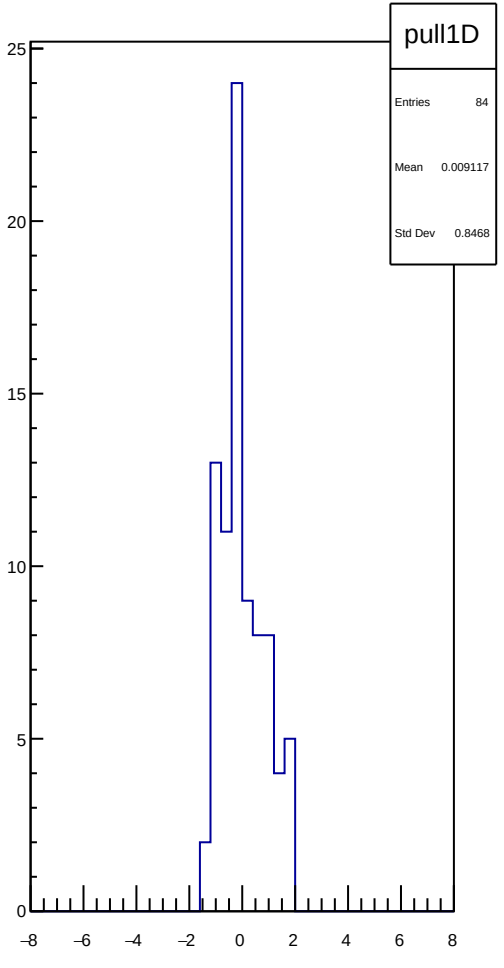

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 2894 / 83
p0 327.2 ± 0.2563
370
360
350
340
330
320
310
300
290

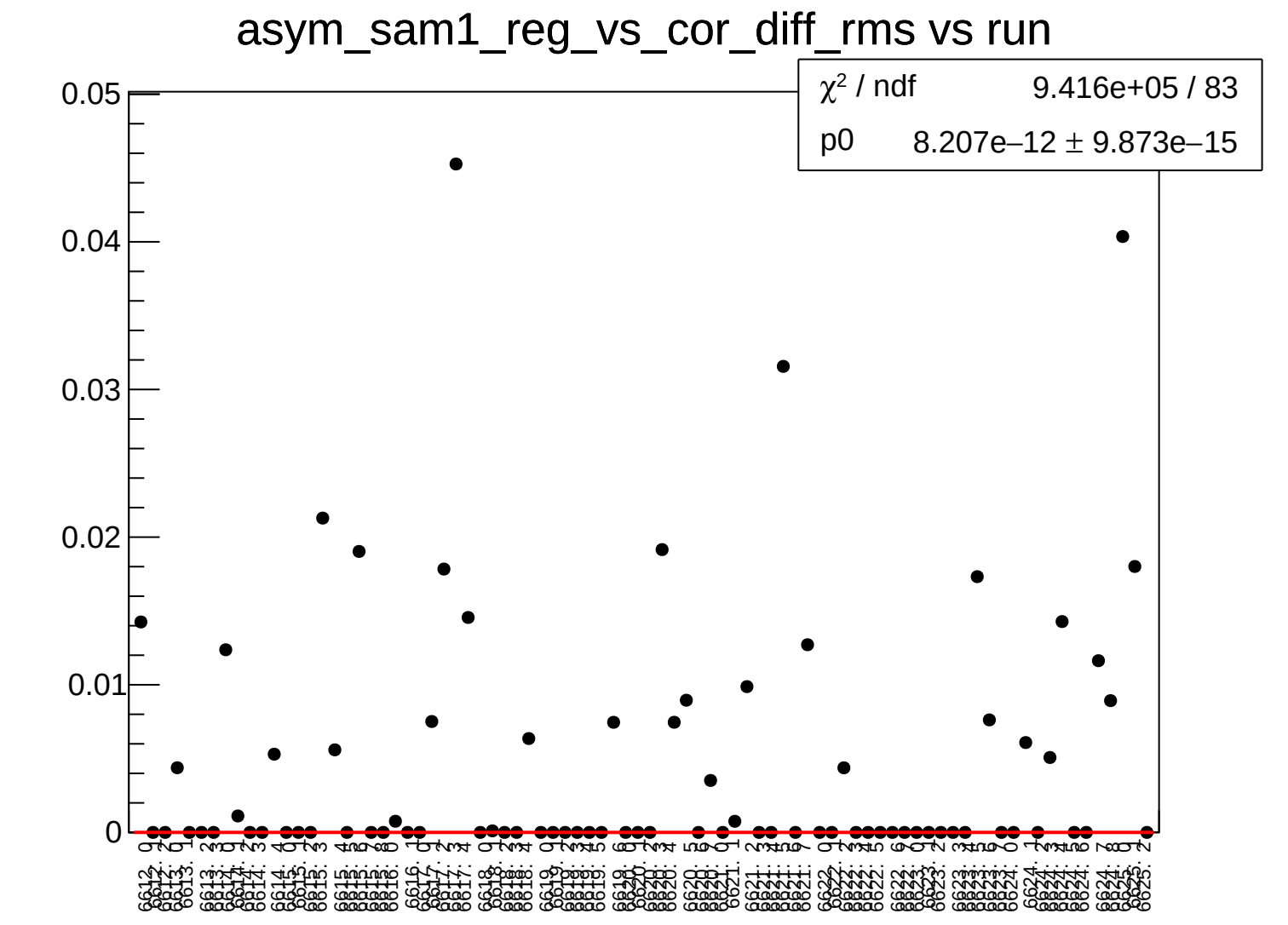

asym_sam1_mean vs run
χ² / ndf 83.21 / 83
p0 −439.7 ± 368.4
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 248.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

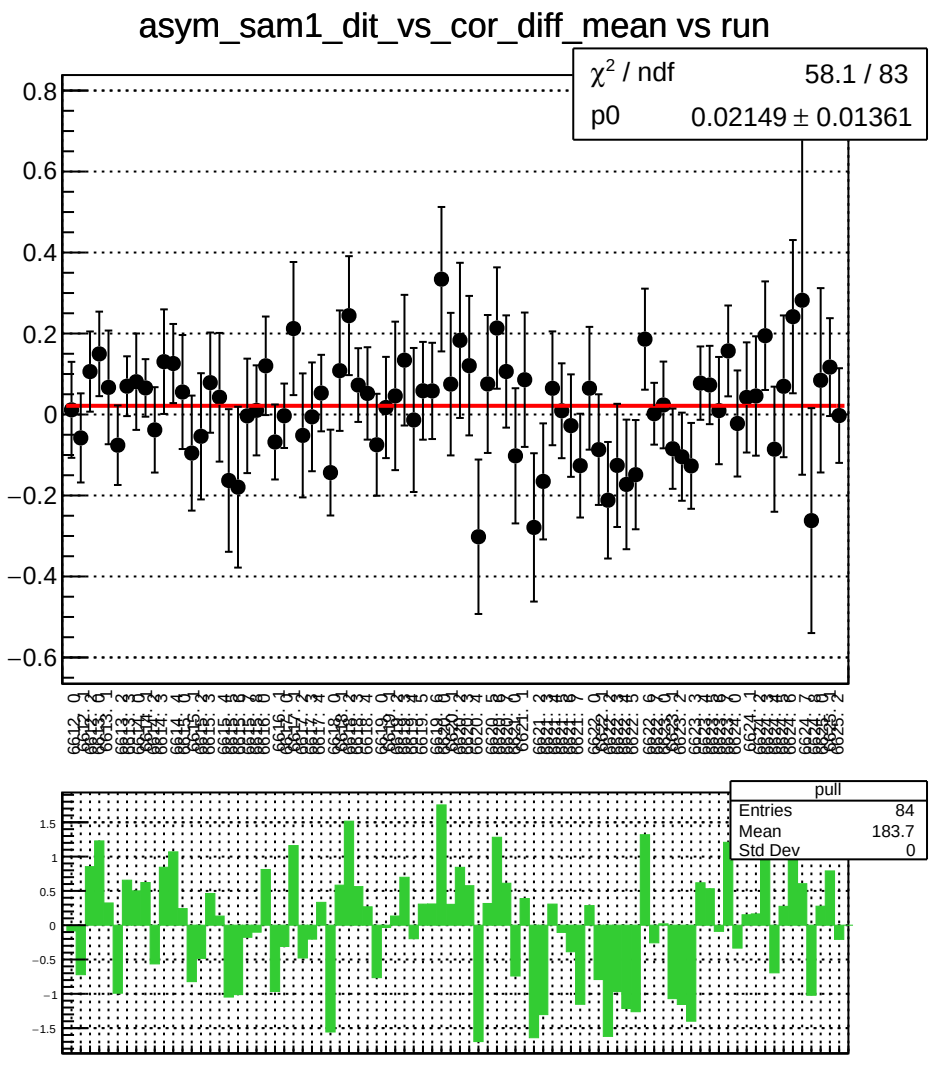

pull1D
Entries 84
Mean −0.01229
Std Dev 0.9952
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

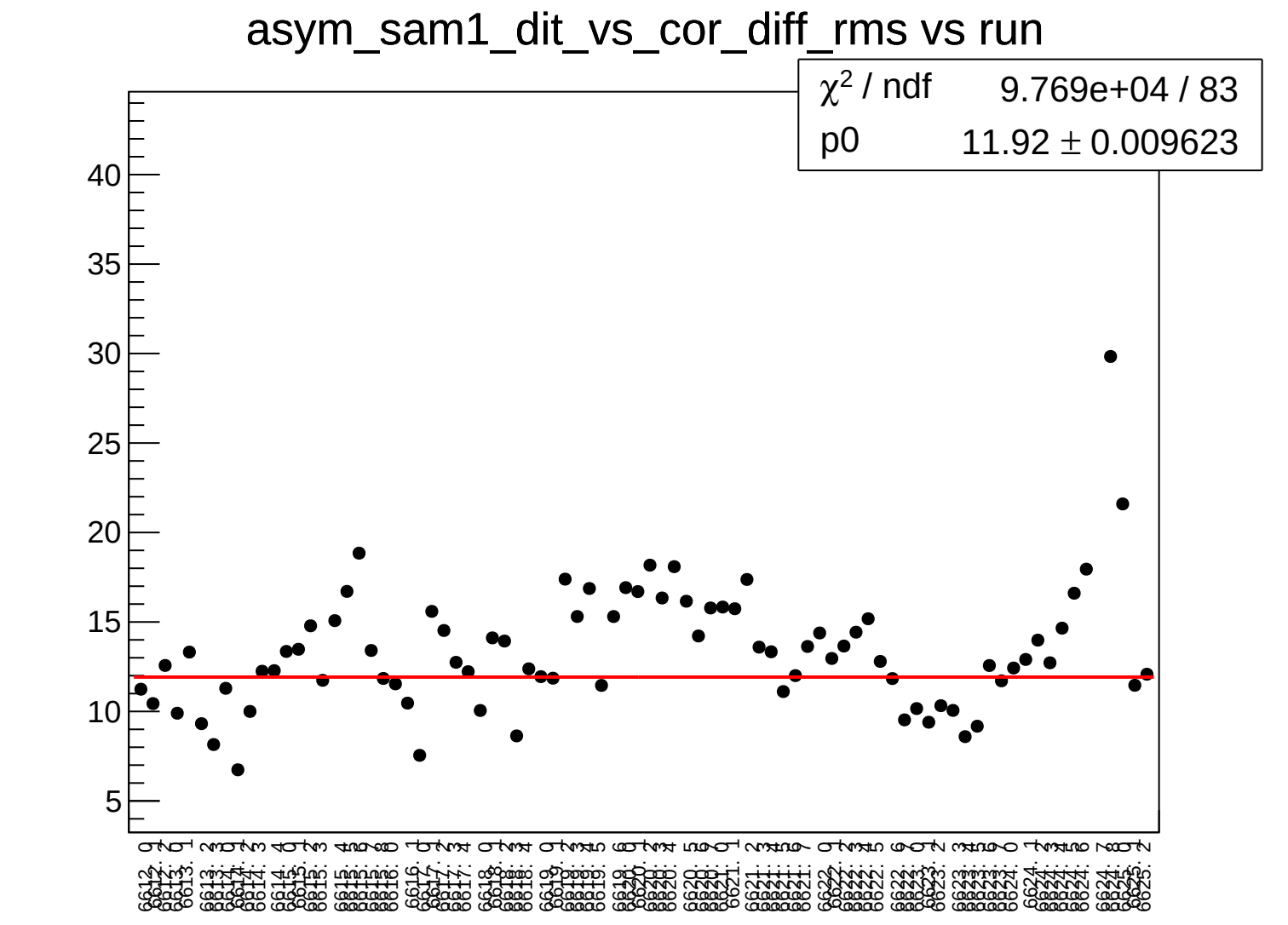

asym_sam1_rms vs run
χ^2 / ndf 2439 / 83
p0 332.6 ± 0.2605
370
360
350
340
330
320
310
300

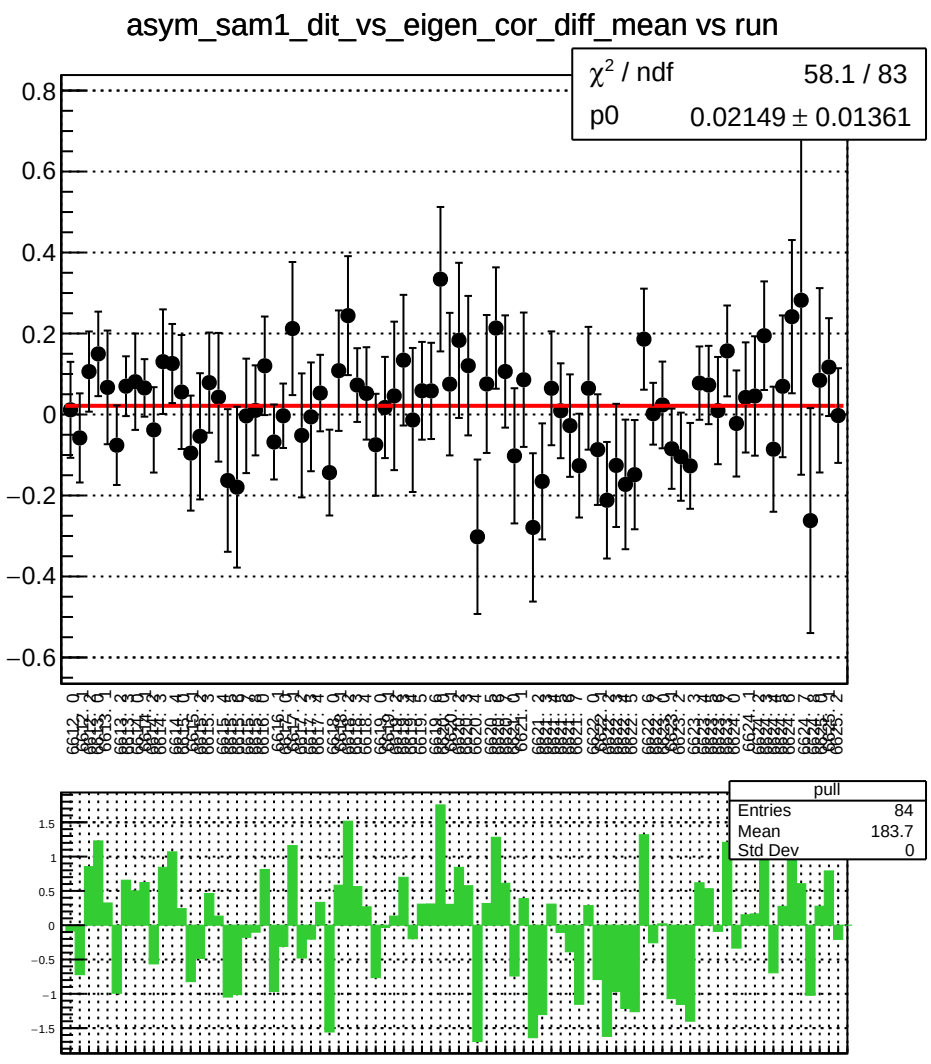

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 60.23 / 83
p0 −7.493e−15 ± 1.396e−14
pull
Entries 84
Mean 175.4
Std Dev 0

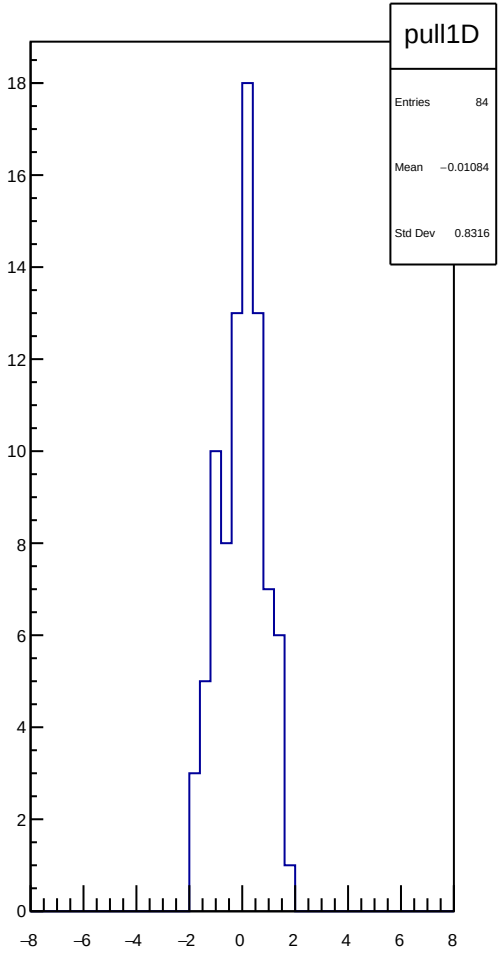

pull1D
Entries 84
Mean 0.009117
Std Dev 0.8468

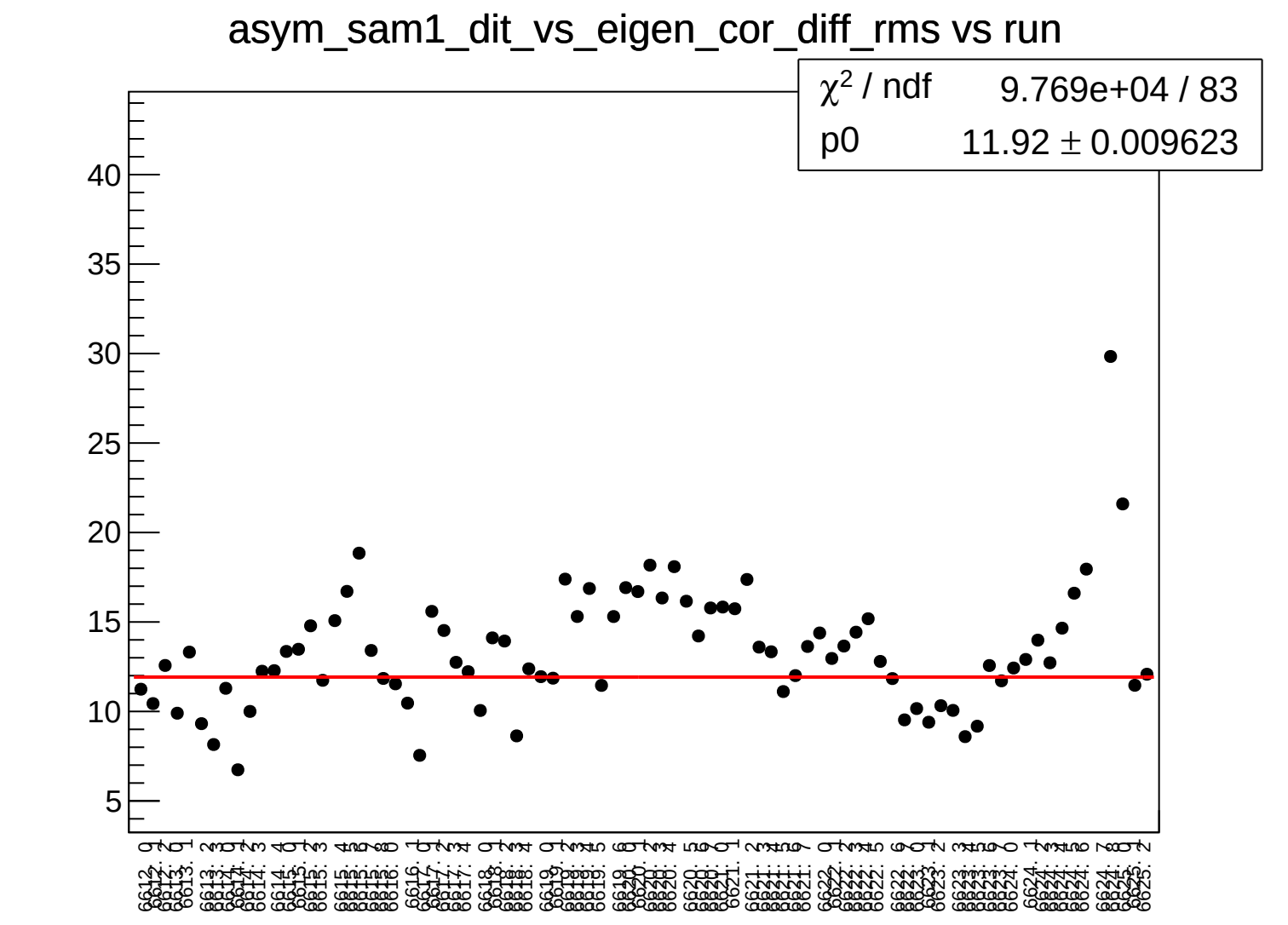

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.416e+05 / 83
p0 8.207e−12 ± 9.873e−15
0.05
0.04
0.03
0.02
0.01
0

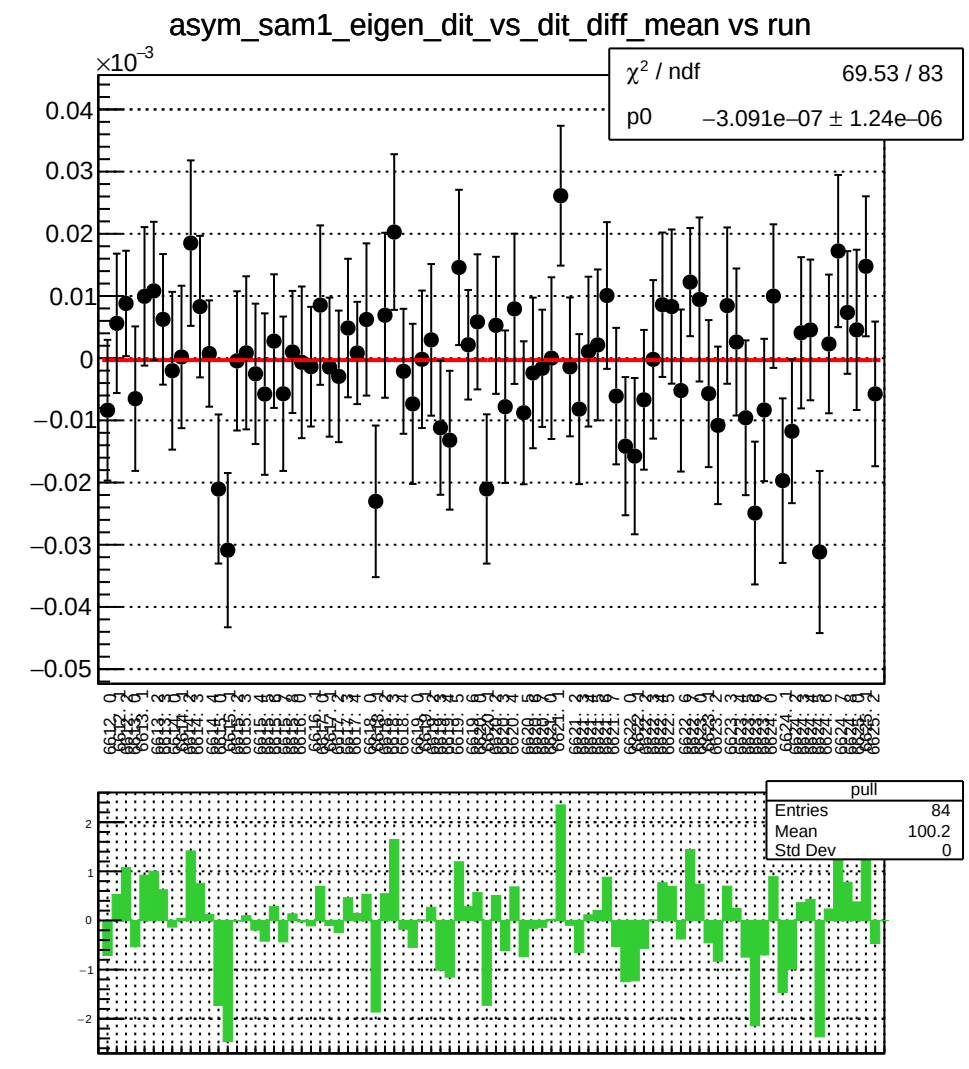

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 58.1 / 83
p0 0.02149 ± 0.01361
pull
Entries 84
Mean 183.7
Std Dev 0
pull1D
Entries 84
Mean −0.01084
Std Dev 0.8316

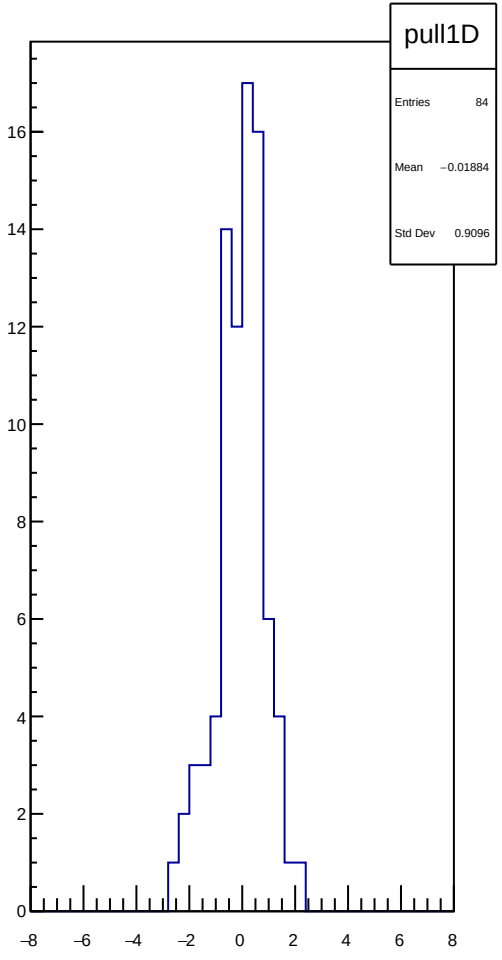

asym_sam1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.769e+04 / 83
p0 11.92 ± 0.009623
40
35
30
25
20
15
10
5

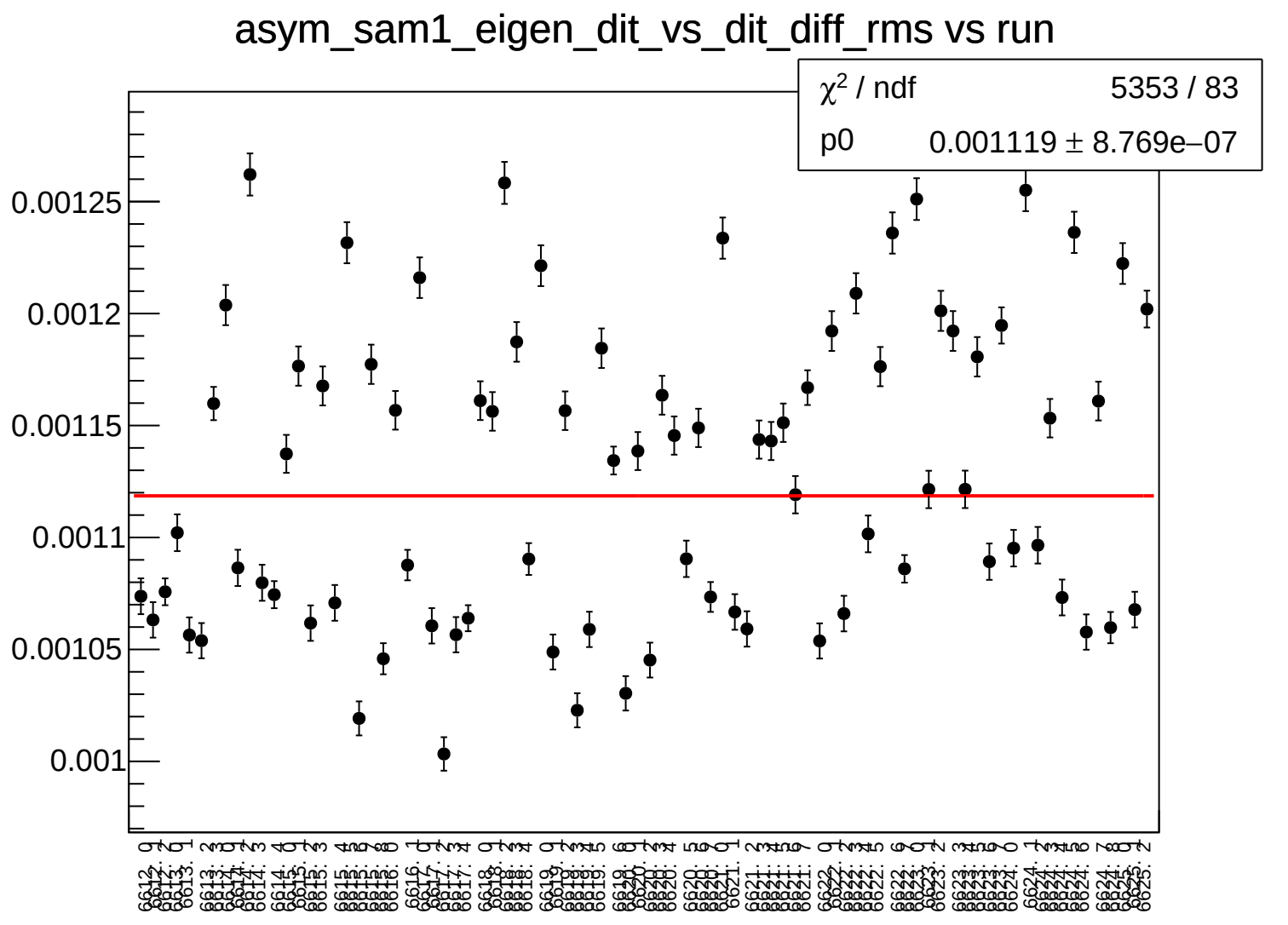

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 58.1 / 83
p0 0.02149 ± 0.01361
pull
Entries 84
Mean 183.7
Std Dev 0

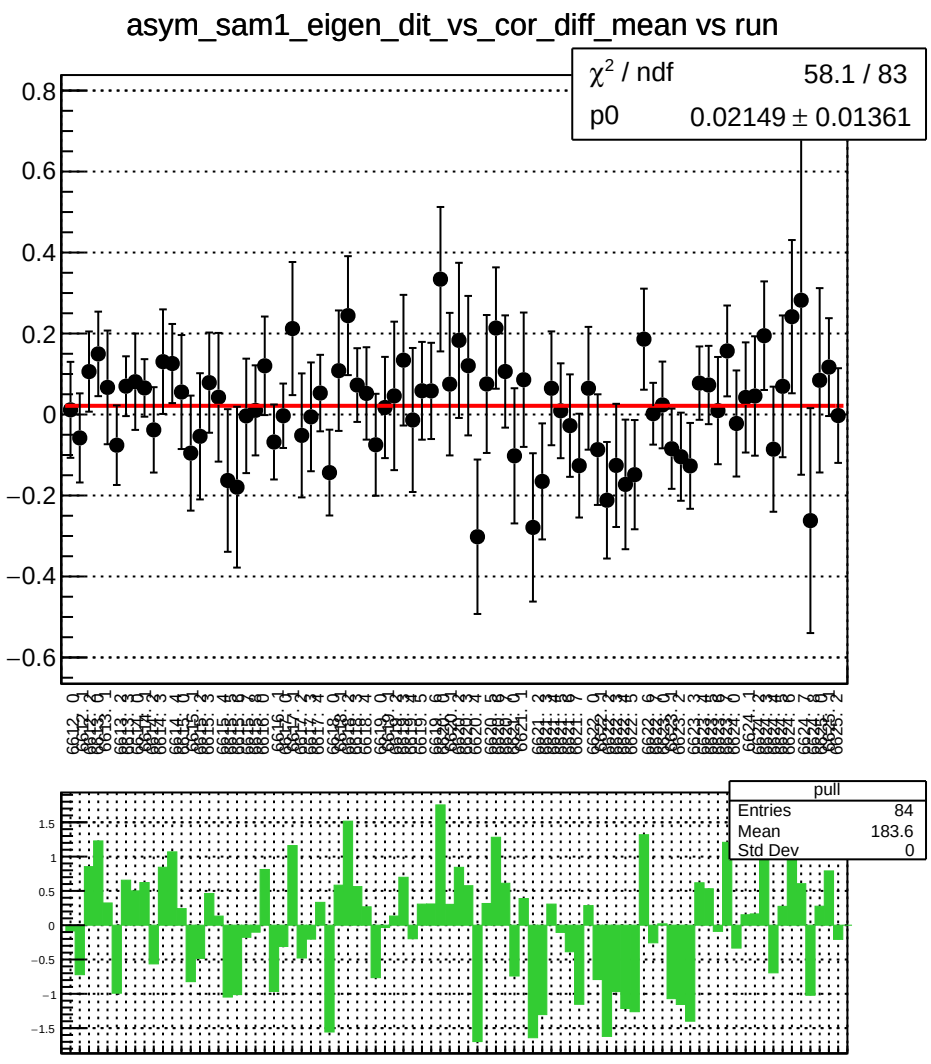

pull1D
Entries 84
Mean −0.01084
Std Dev 0.8316

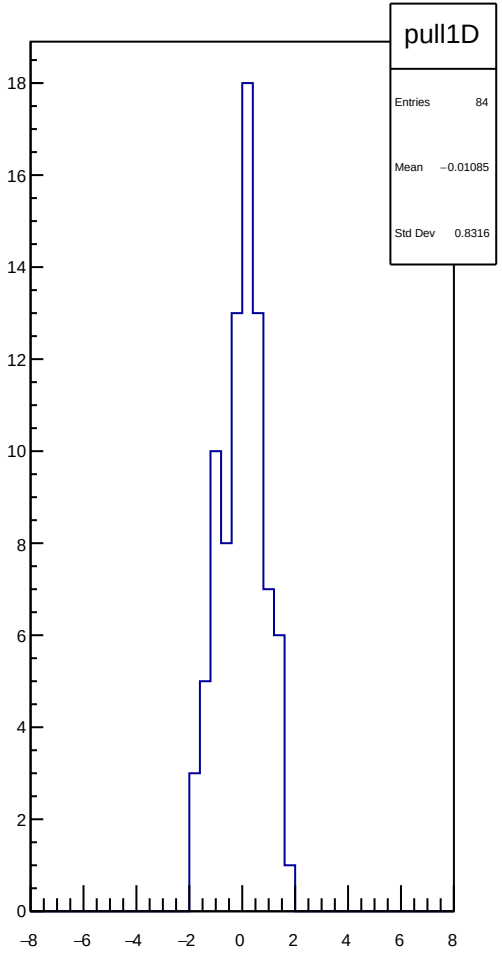

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.769e+04 / 83
p0 11.92 ± 0.009623
40
35
30
25
20
15
10
5

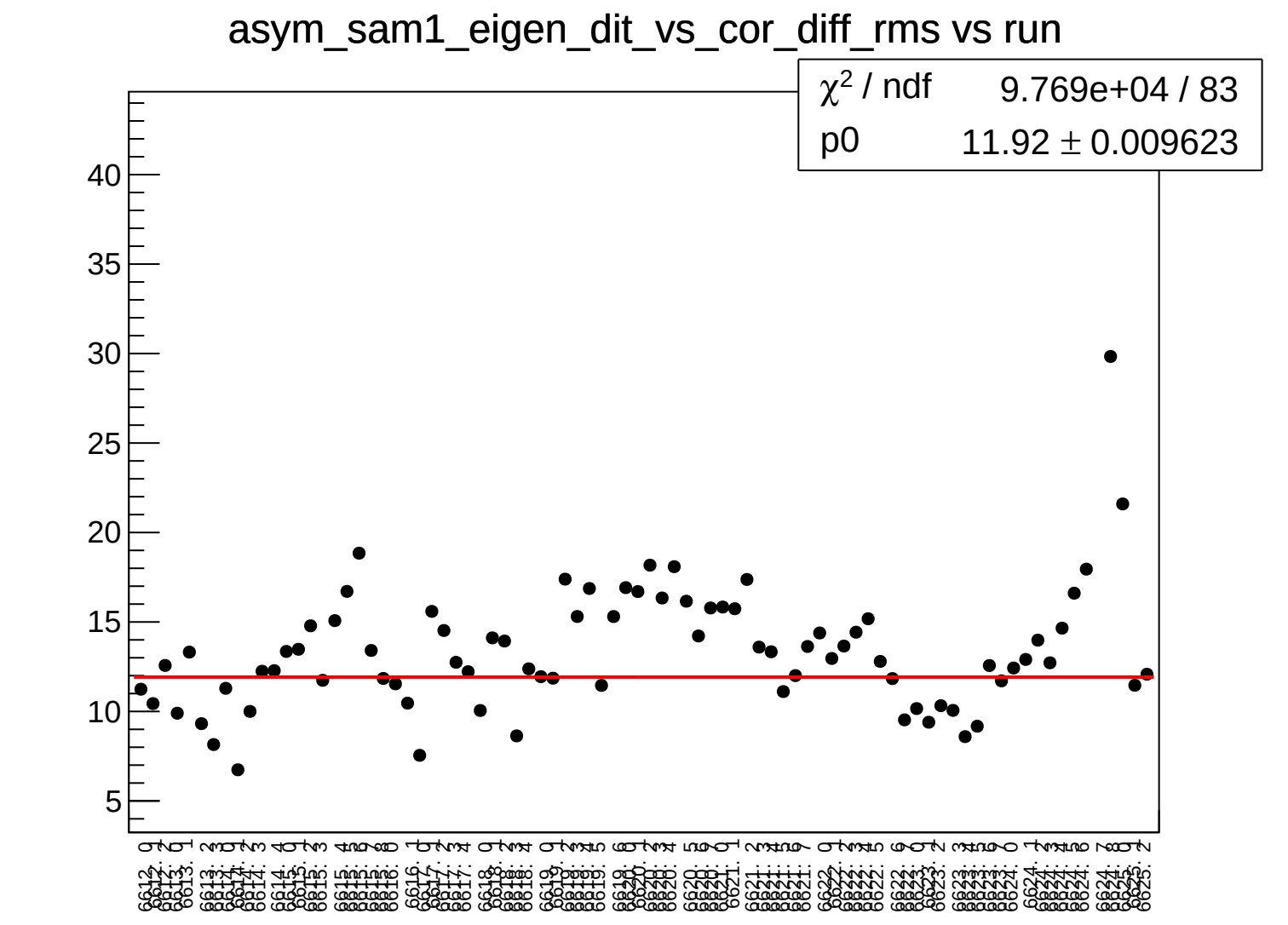

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.53 / 83
p0 −3.091e−07 ± 1.24e−06
pull
Entries 84
Mean 100.2
Std Dev 0

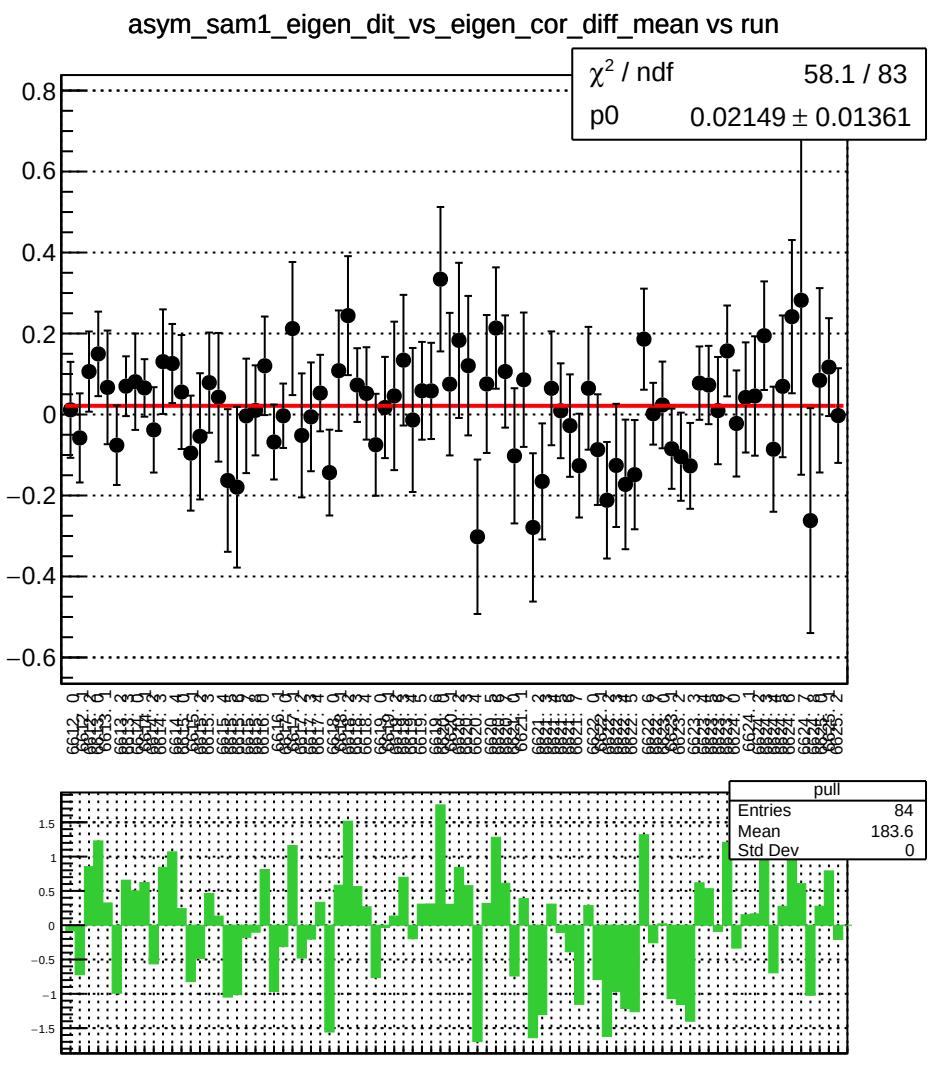

pull1D
Entries 84
Mean −0.01884
Std Dev 0.9096

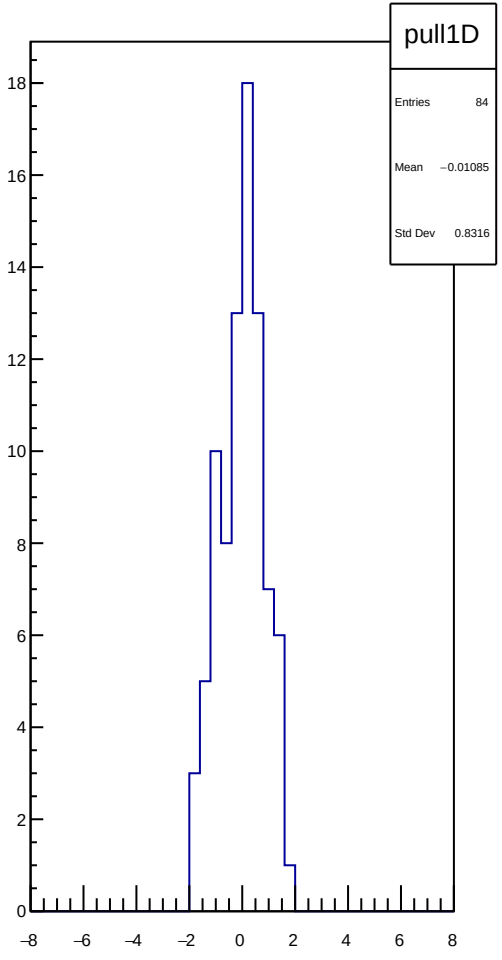

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5353 / 83
p0 0.001119 ± 8.769e−07
0.00125
0.0012
0.00115
0.0011
0.00105
0.001

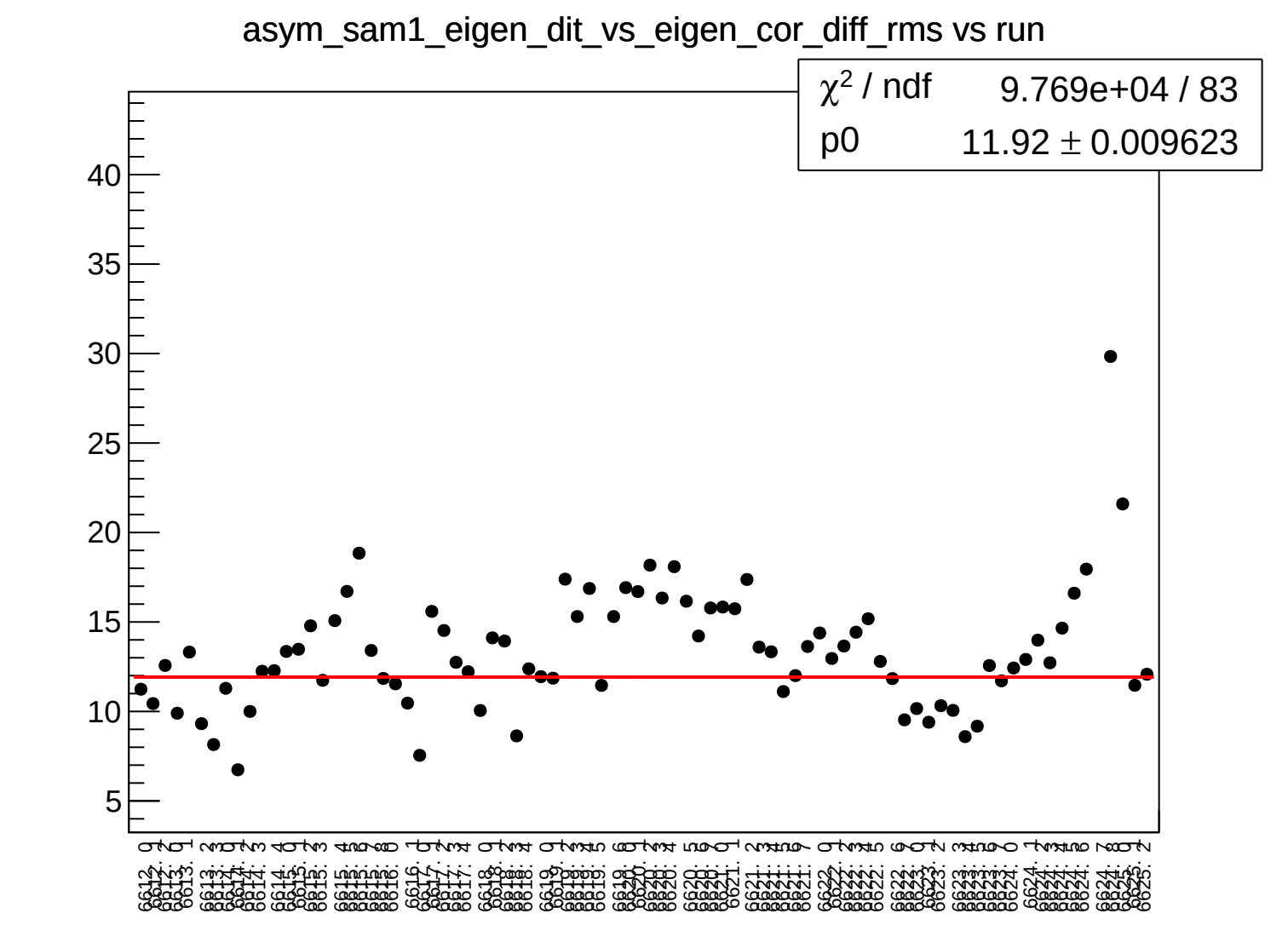

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 58.1 / 83
p0 0.02149 ± 0.01361
pull
Entries 84
Mean 183.6
Std Dev 0

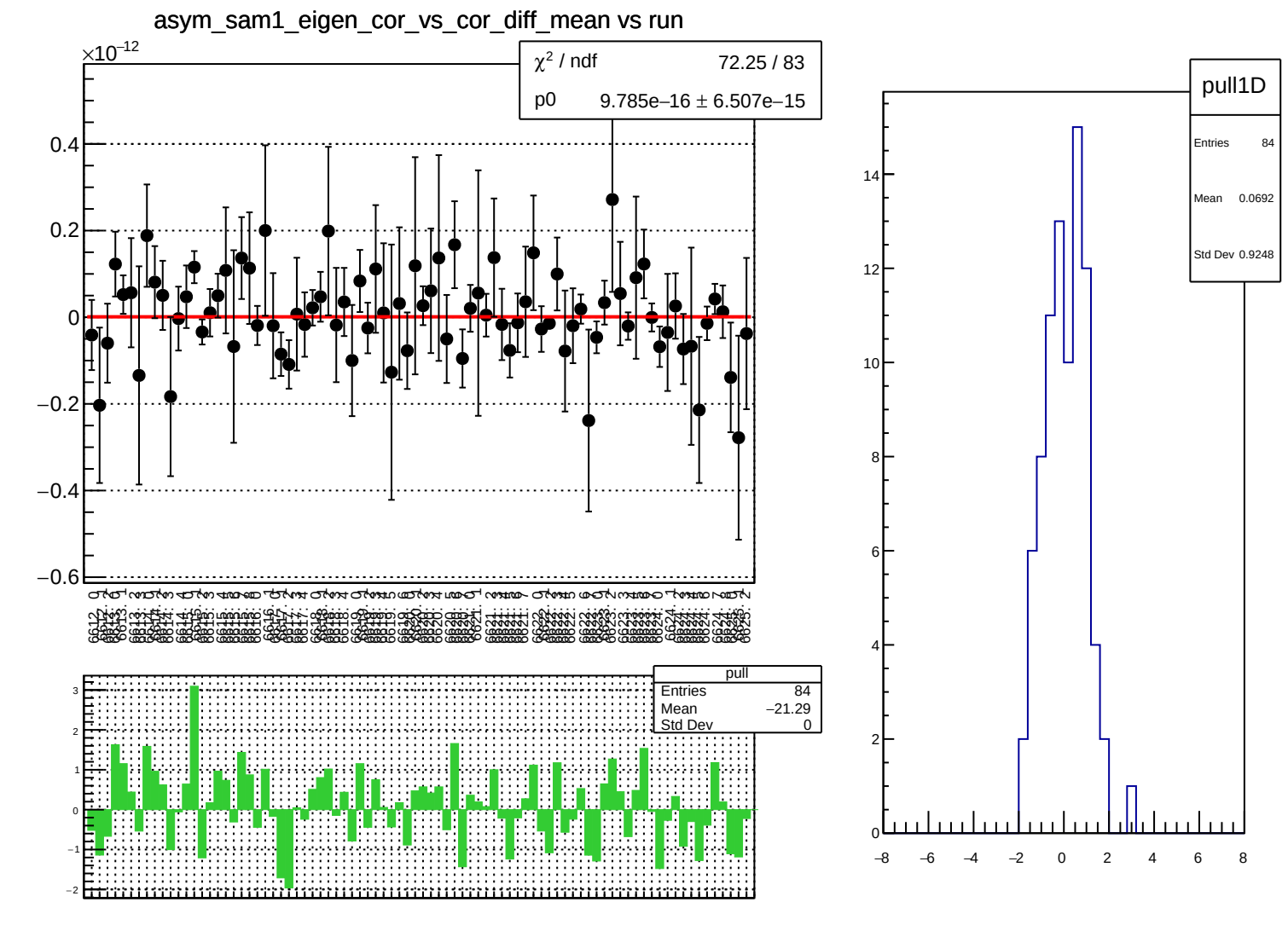

pull1D
Entries 84
Mean −0.01085
Std Dev 0.8316

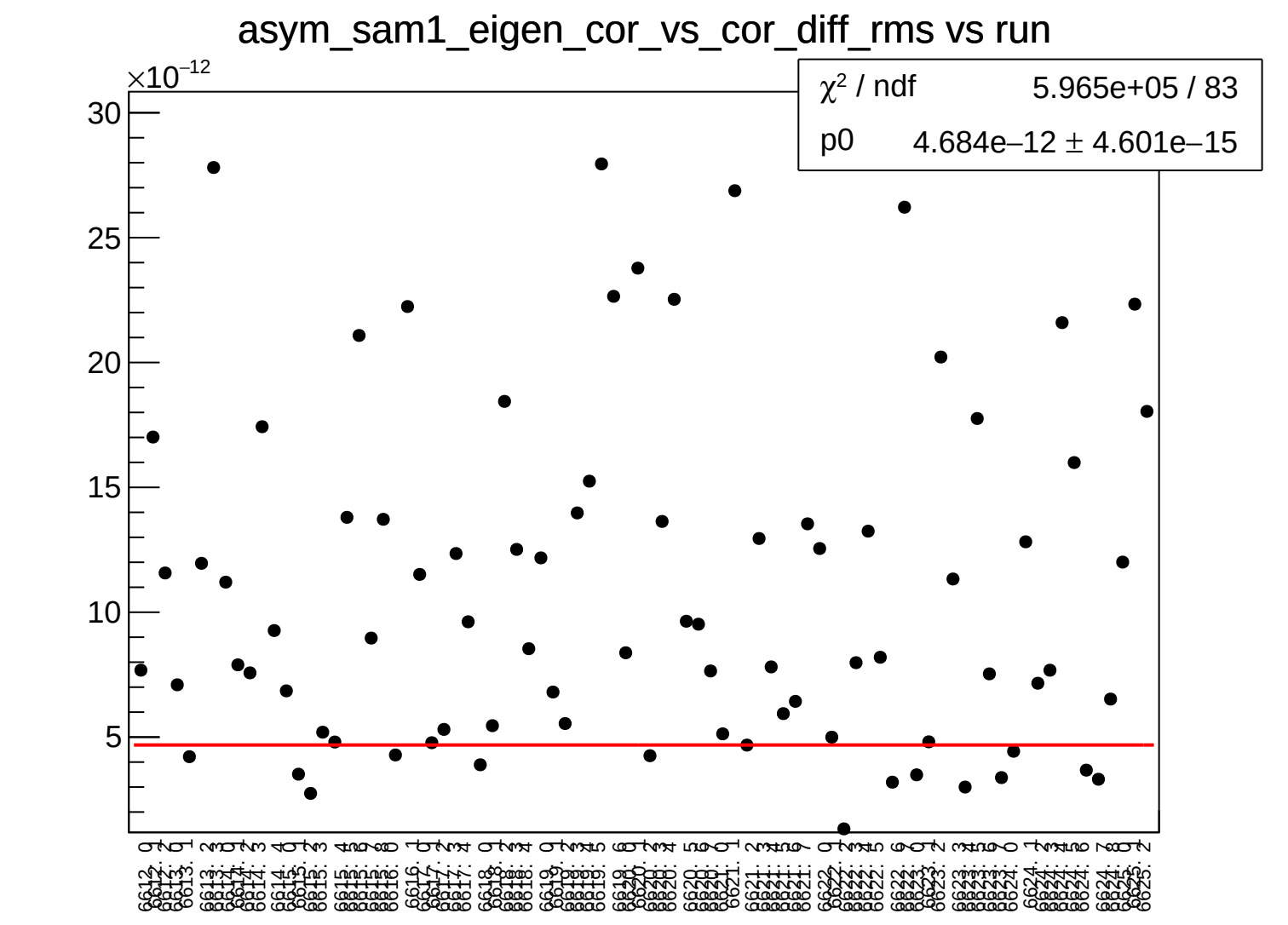

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.769e+04 / 83
p0 11.92 ± 0.009623
40
35
30
25
20
15
10
5

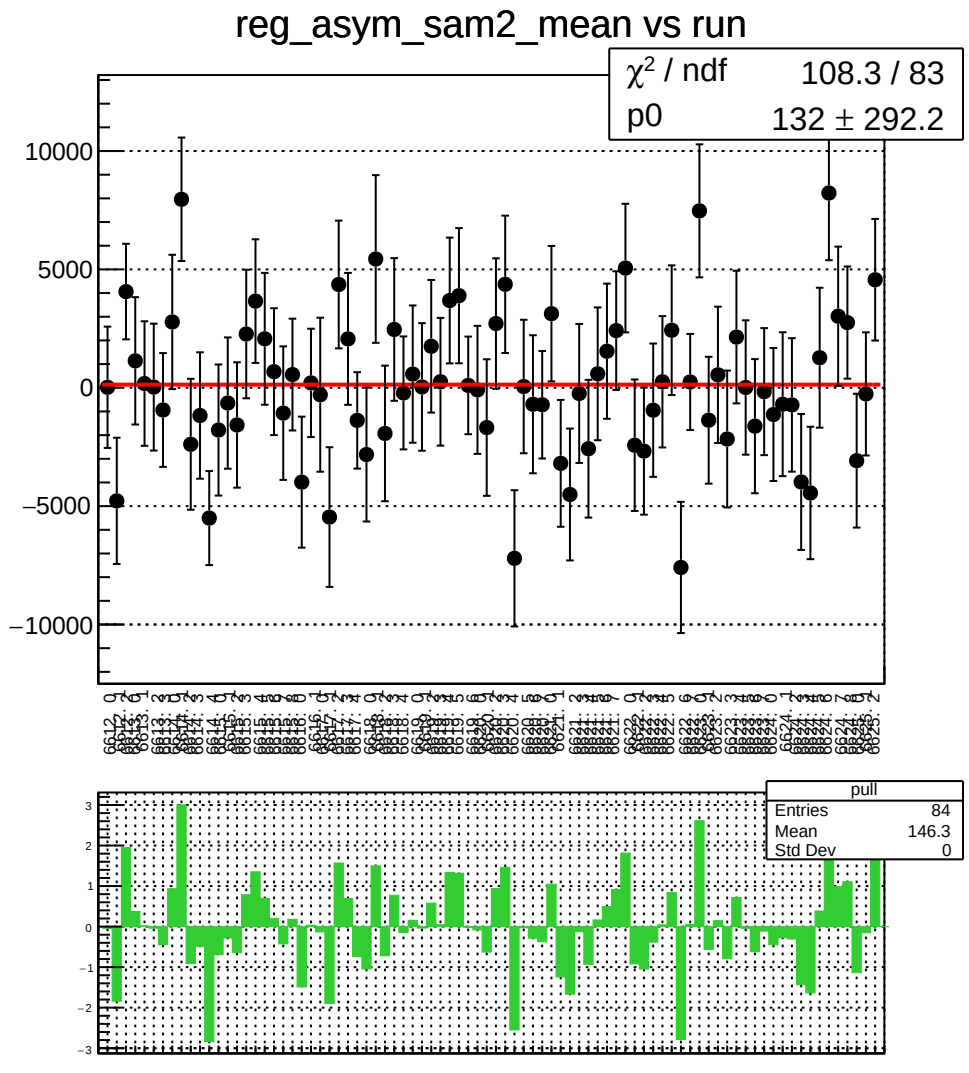

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 58.1 / 83
p0 0.02149 ± 0.01361
pull
Entries 84
Mean 183.6
Std Dev 0

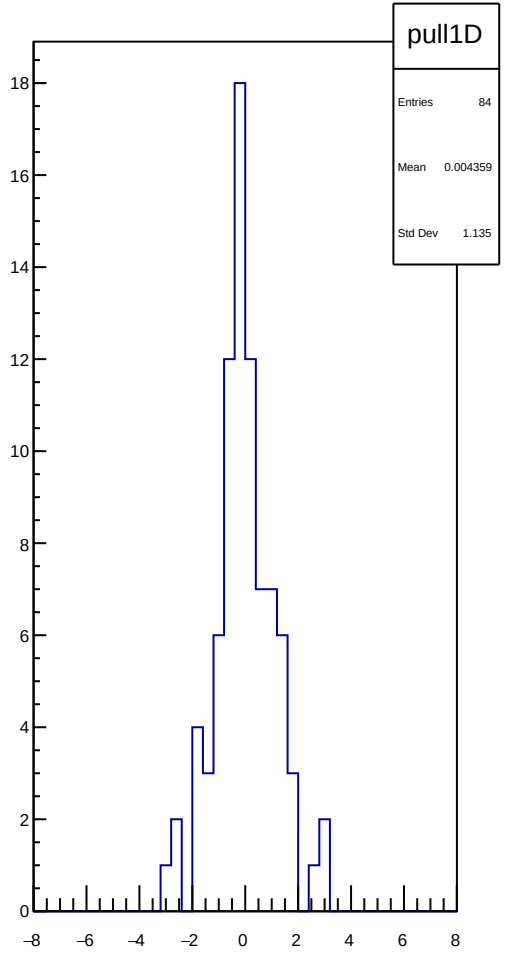

pull1D
Entries 84
Mean −0.01085
Std Dev 0.8316

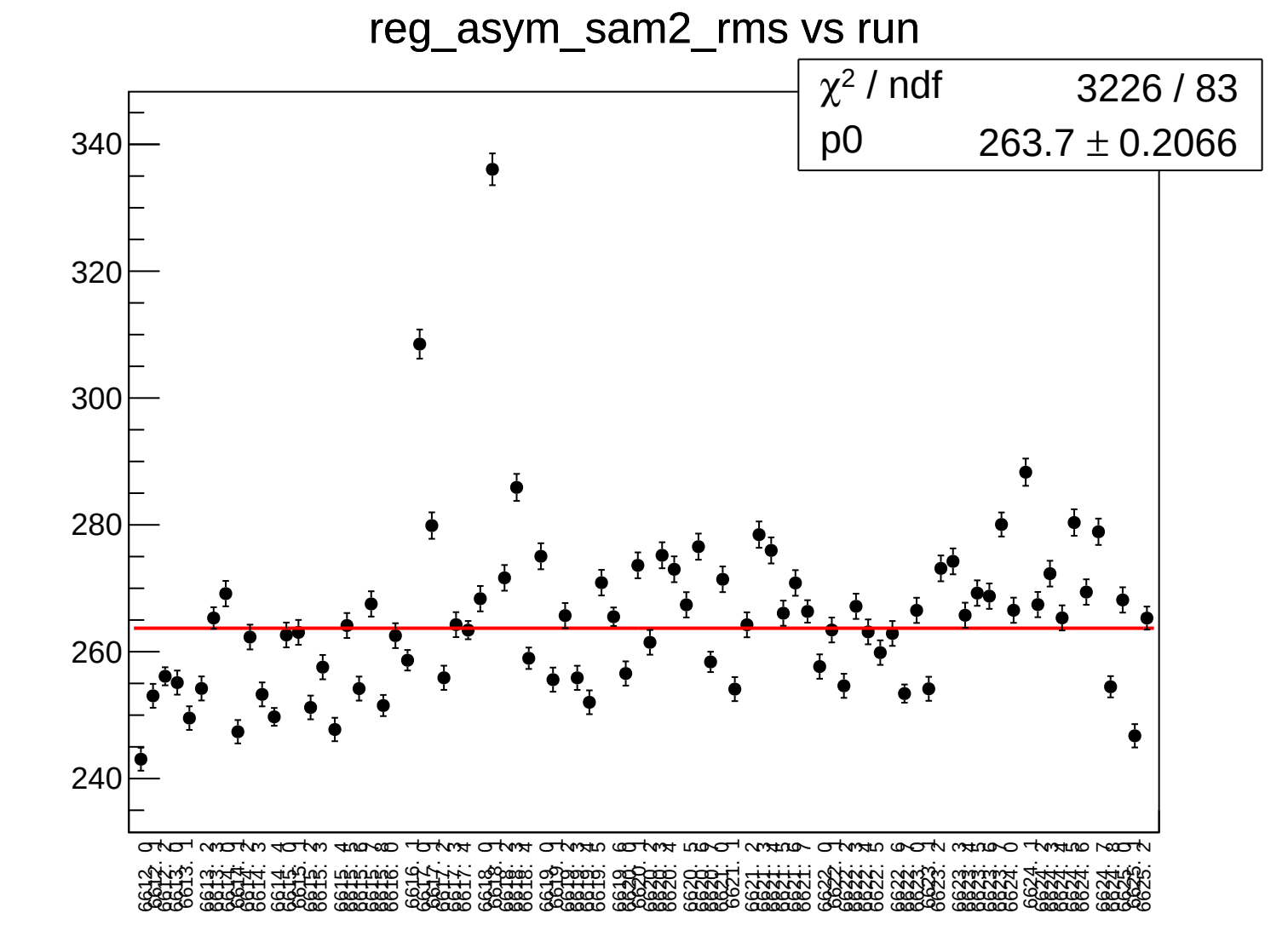

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.769e+04 / 83
p0 11.92 ± 0.009623
40
35
30
25
20
15
10
5

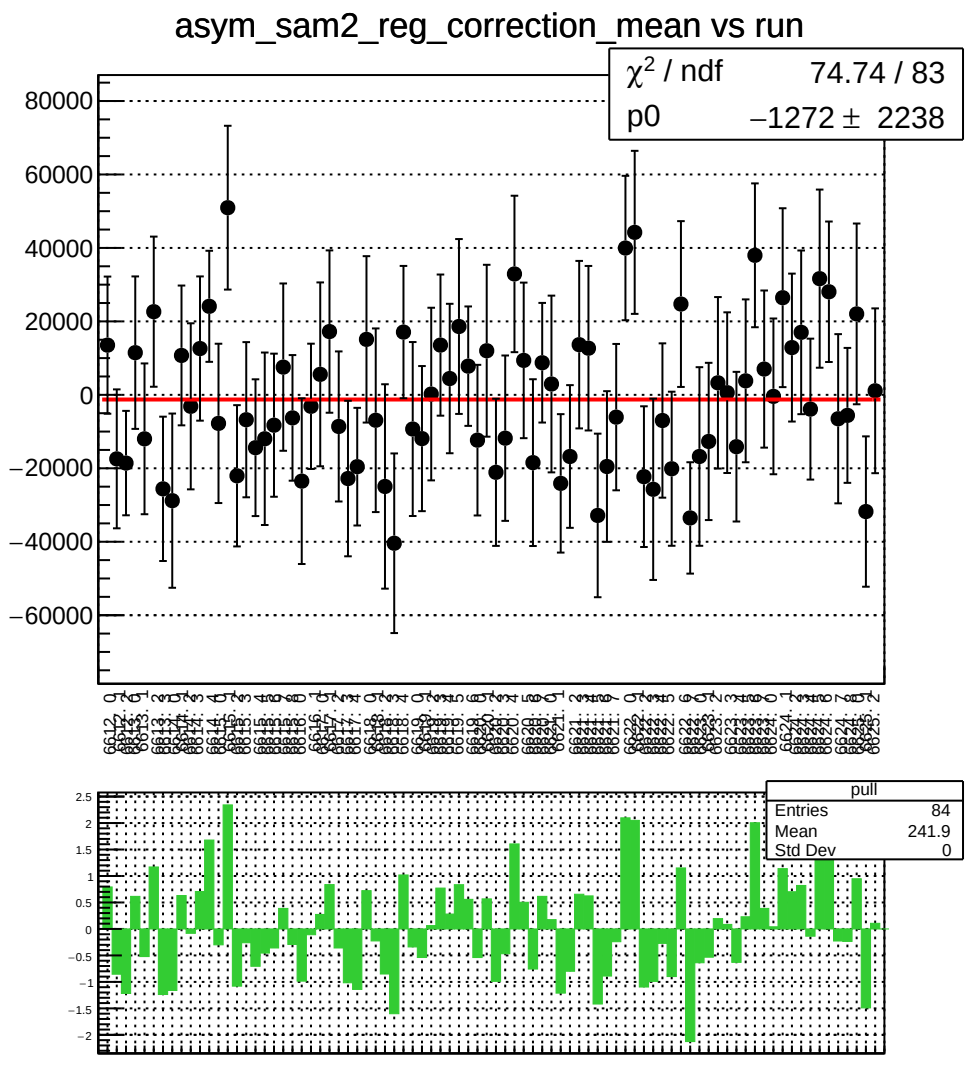

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.25 / 83
p0 9.785e−16 ± 6.507e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 84
Mean −21.29
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.0692
Std Dev 0.9248
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

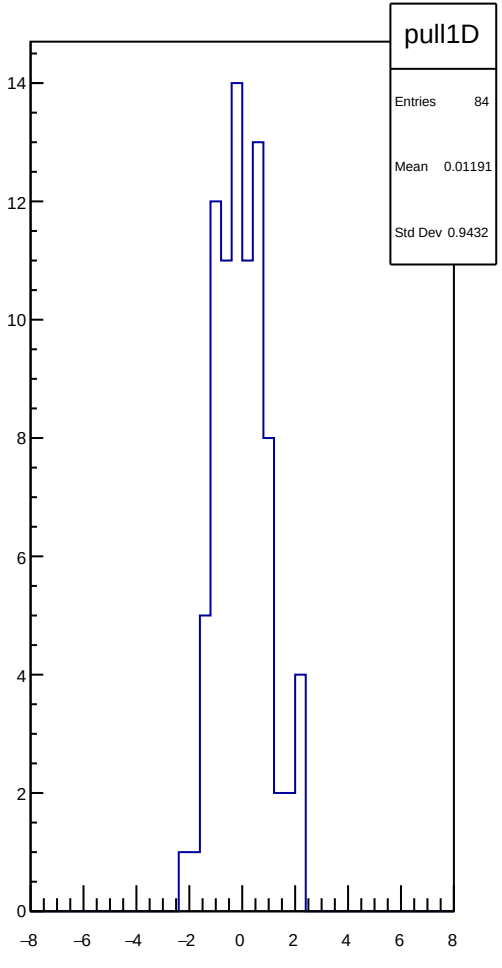

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.965e+05 / 83
p0 4.684e−12 ± 4.601e−15
30
25
20
15
10
5

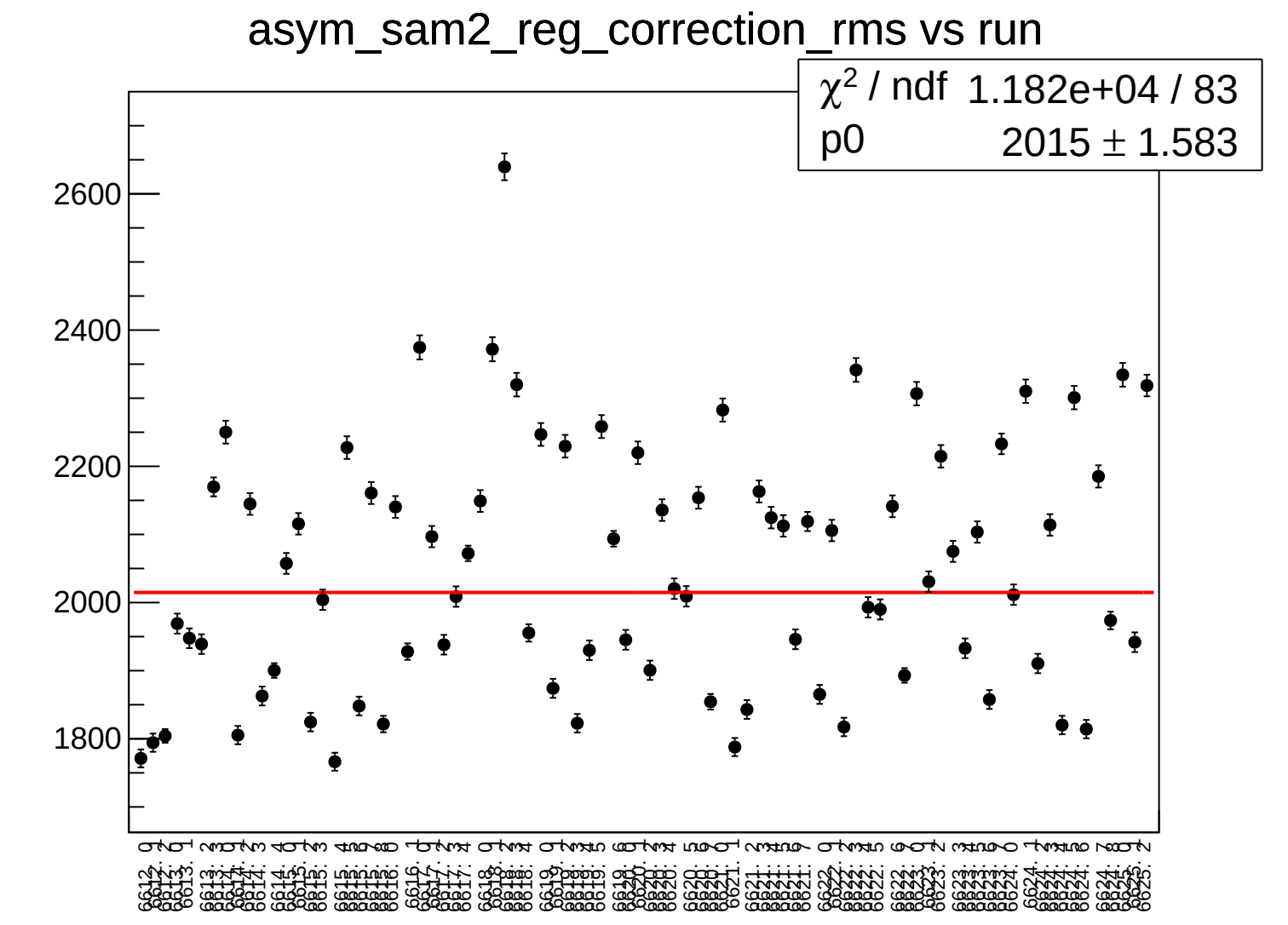

reg_asym_sam2_mean vs run
χ² / ndf 108.3 / 83
p0 132 ± 292.2
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 146.3
Std Dev 0
3
2
1
0
−1
−2
−3

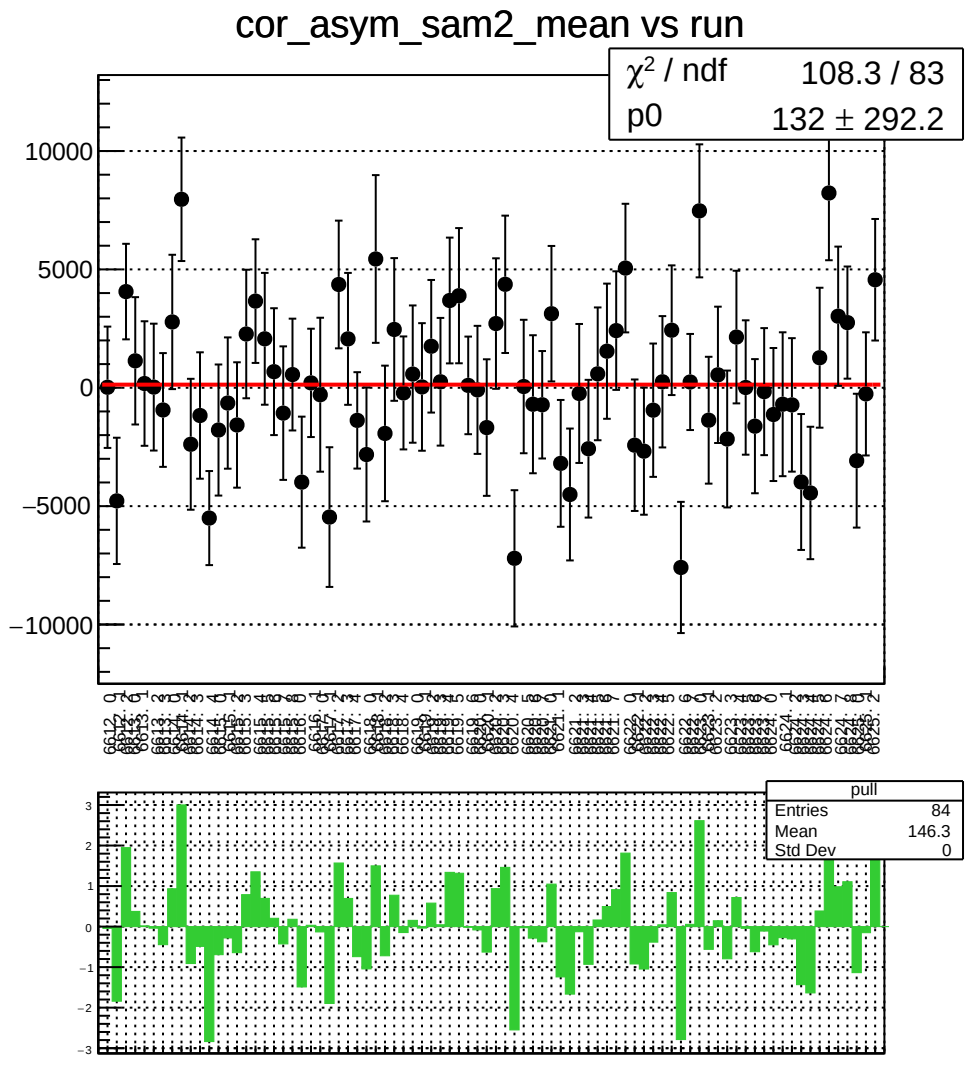

pull1D
Entries 84
Mean 0.004359
Std Dev 1.135
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

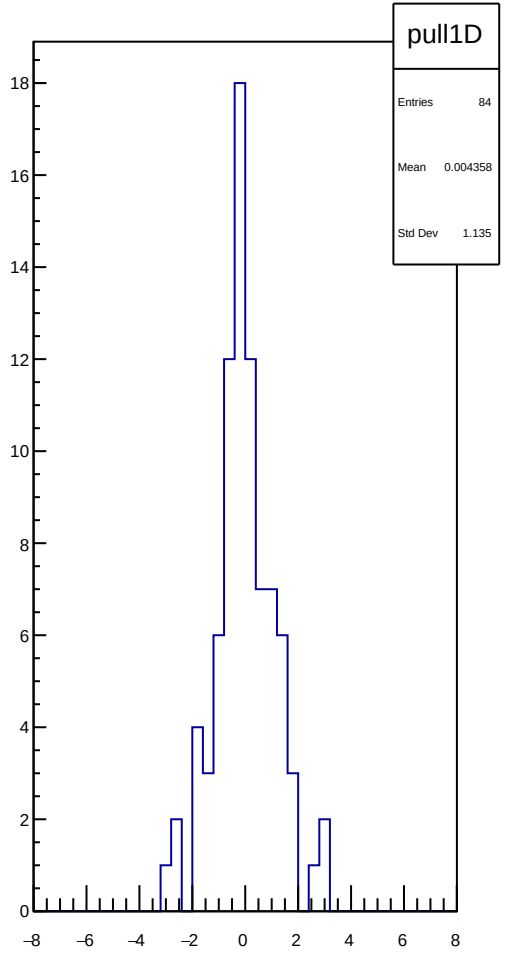

reg_asym_sam2_rms vs run
χ² / ndf 3226 / 83
p0 263.7 ± 0.2066
340
320
300
280
260
240

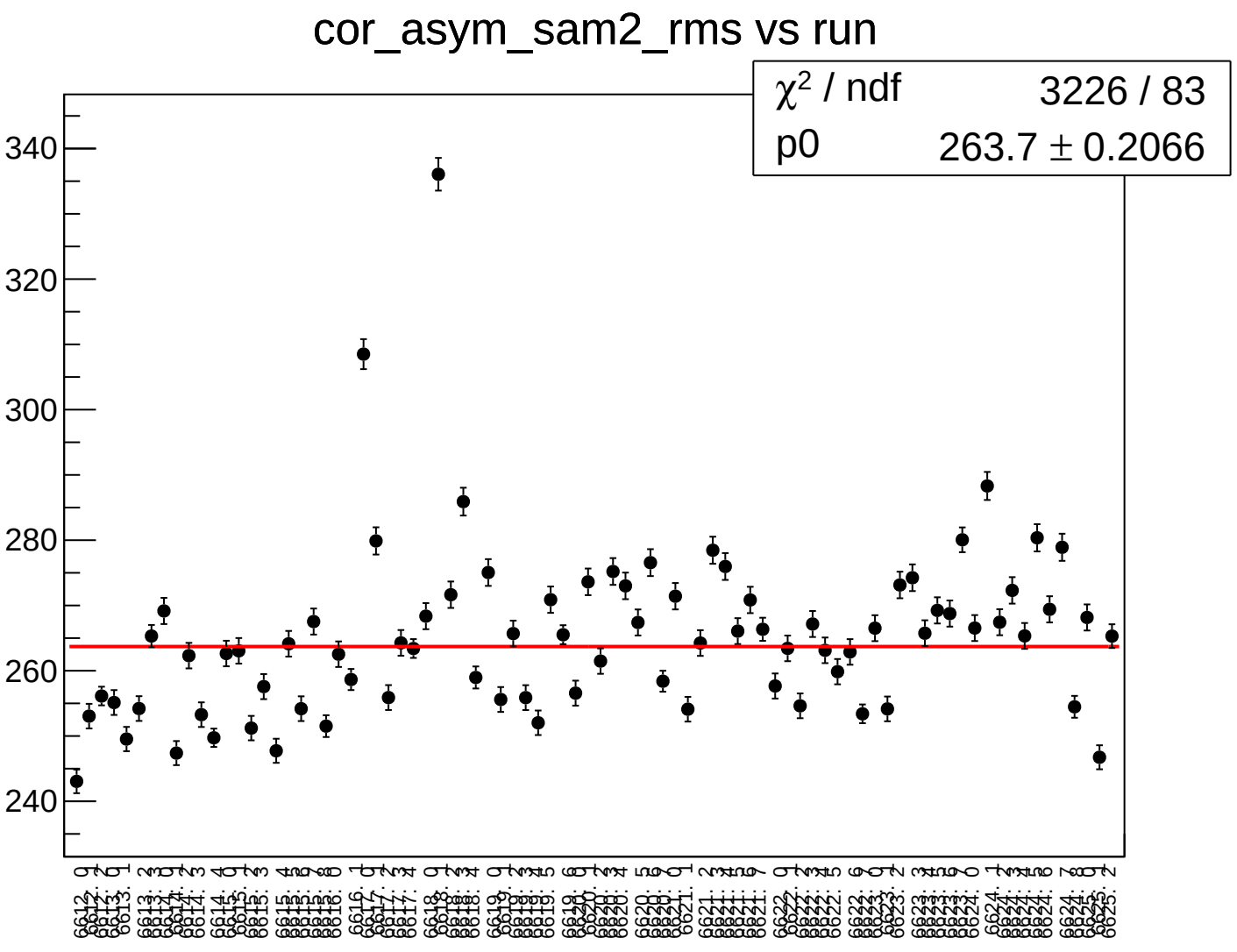

asym_sam2_reg_correction_mean vs run
χ² / ndf 74.74 / 83
p0 −1272 ± 2238
pull
Entries 84
Mean 241.9
Std Dev 0

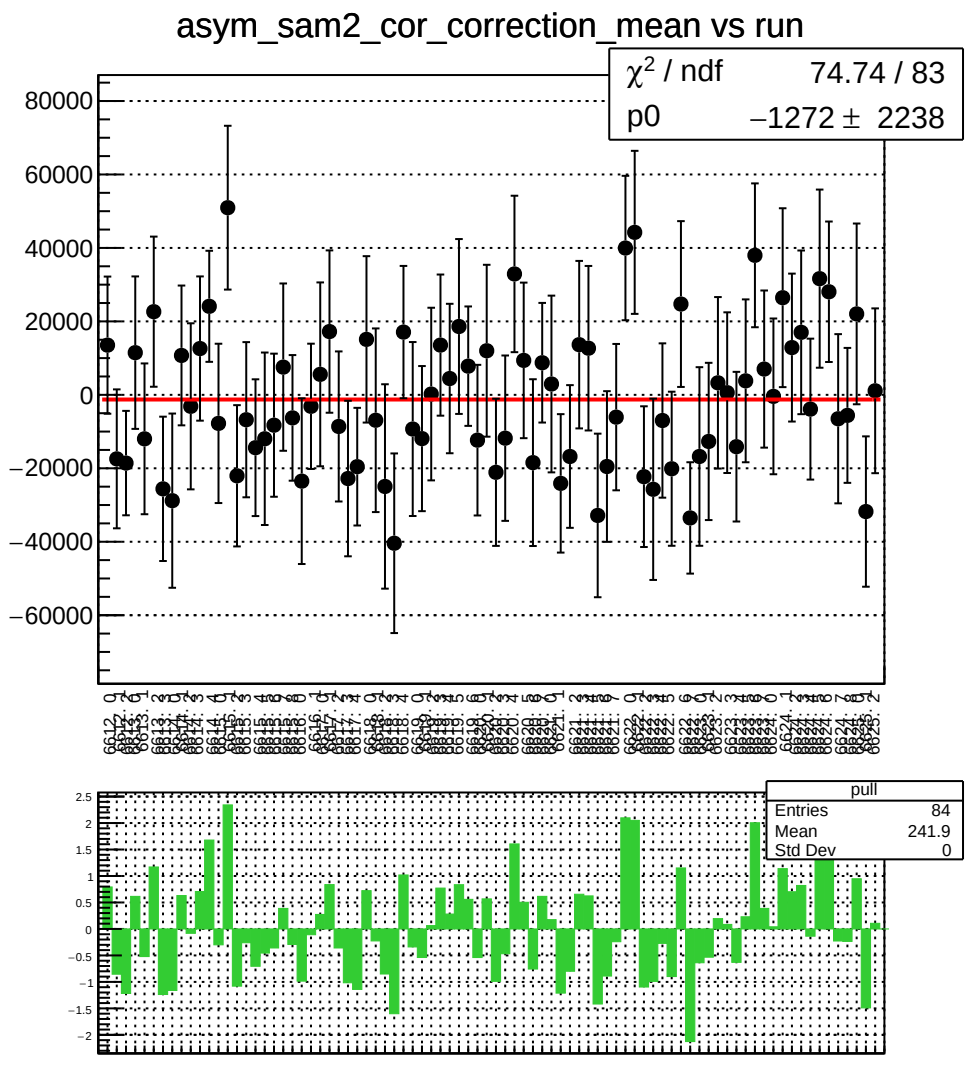

pull1D
Entries 84
Mean 0.01191
Std Dev 0.9432

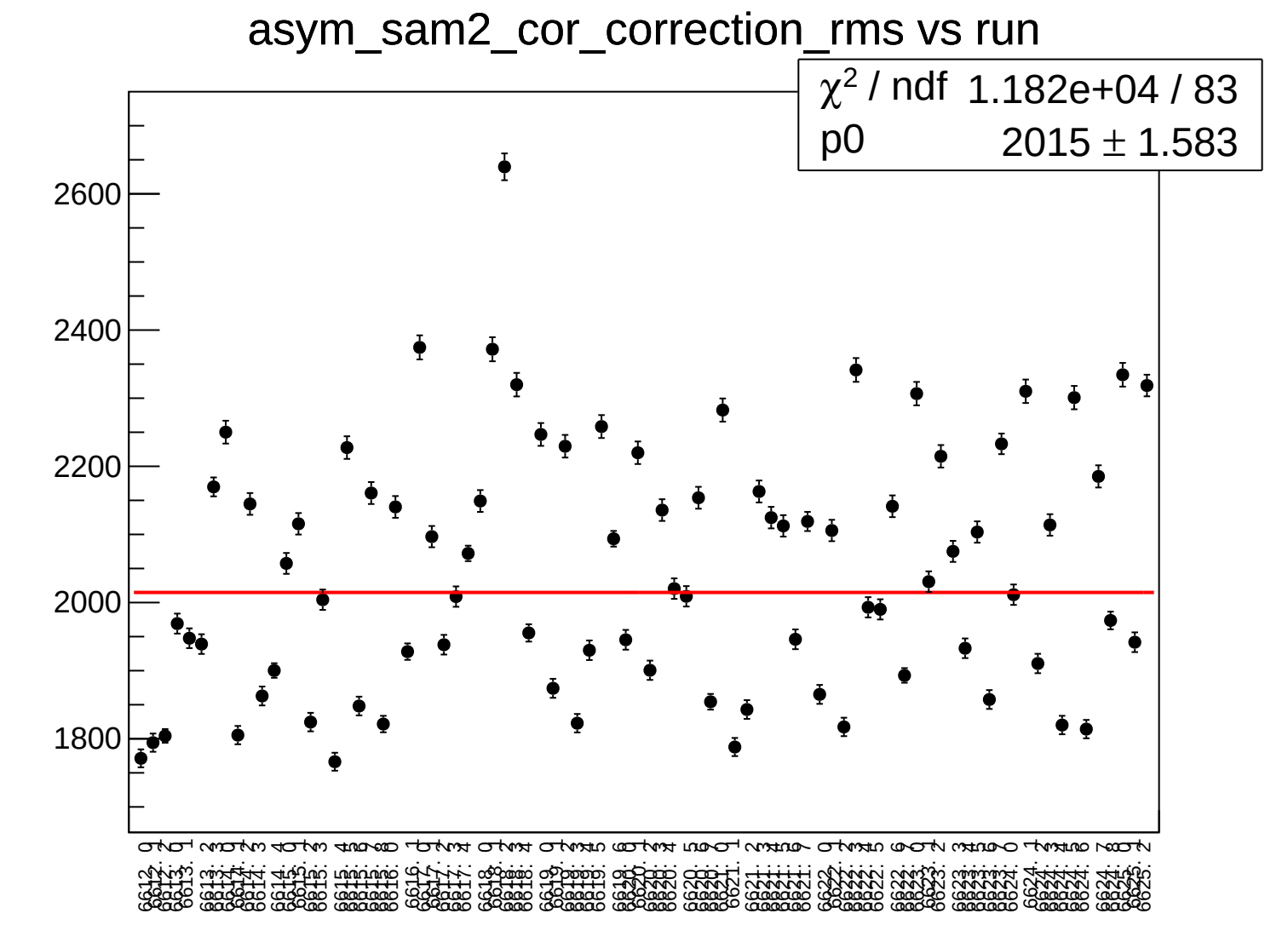

asym_sam2_reg_correction_rms vs run
χ² / ndf 1.182e+04 / 83
p0 2015 ± 1.583
2600
2400
2200
2000
1800

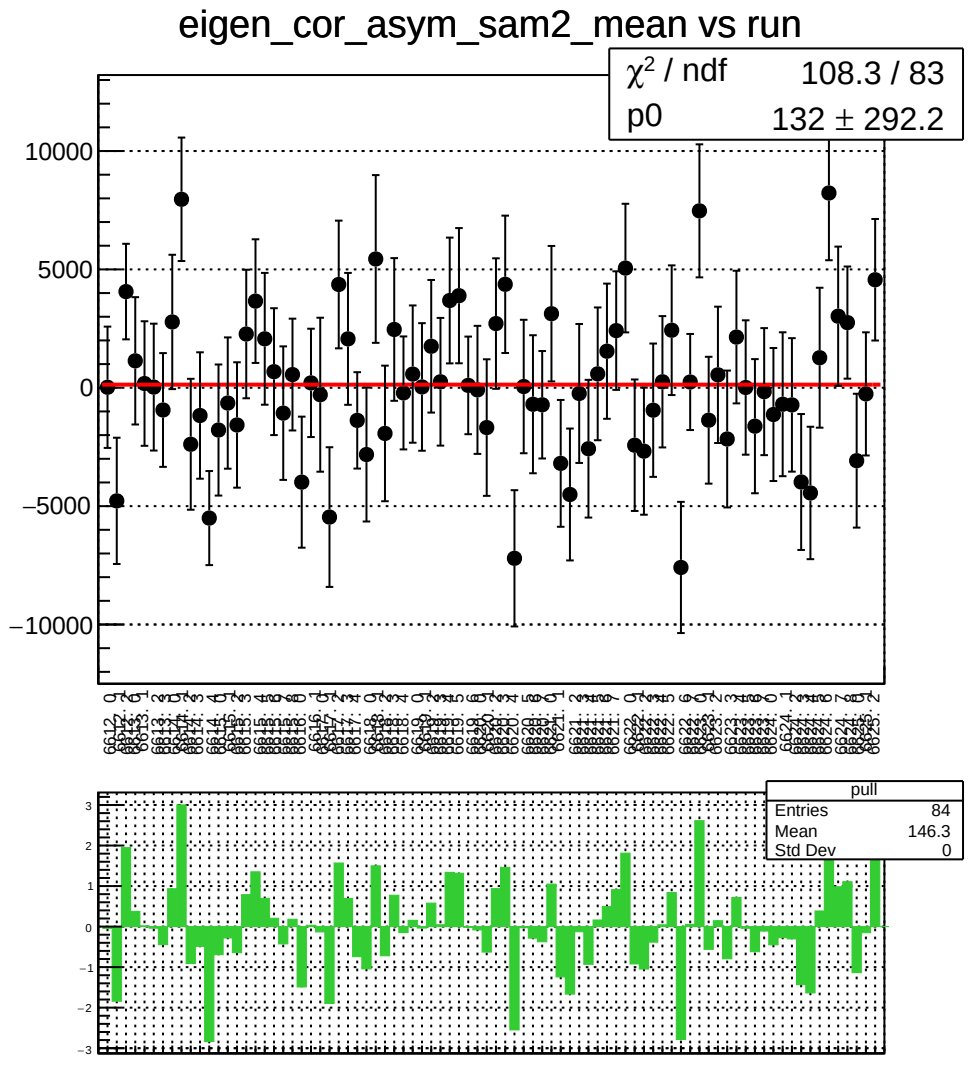

cor_asym_sam2_mean vs run
χ² / ndf 108.3 / 83
p0 132 ± 292.2
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 146.3
Std Dev 0
3
2
1
0
−1
−2
−3

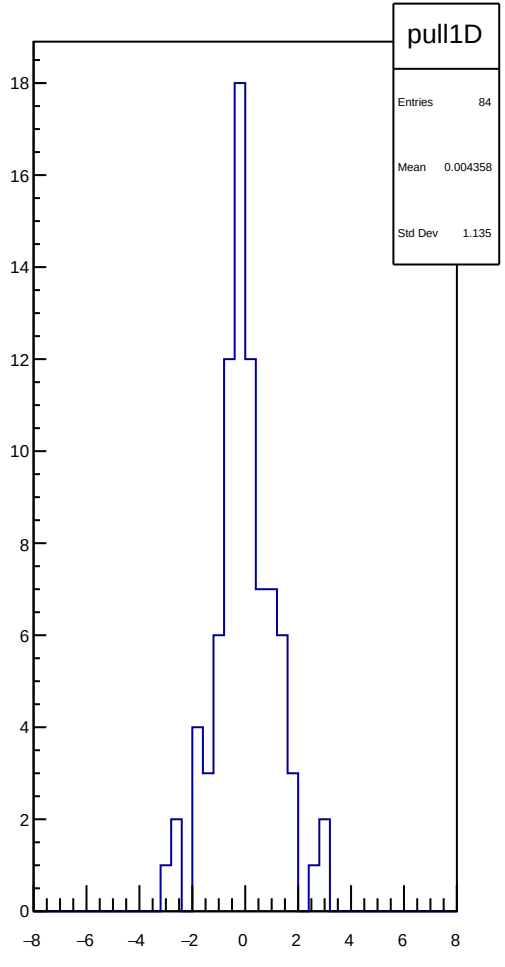

pull1D
Entries 84
Mean 0.004358
Std Dev 1.135
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

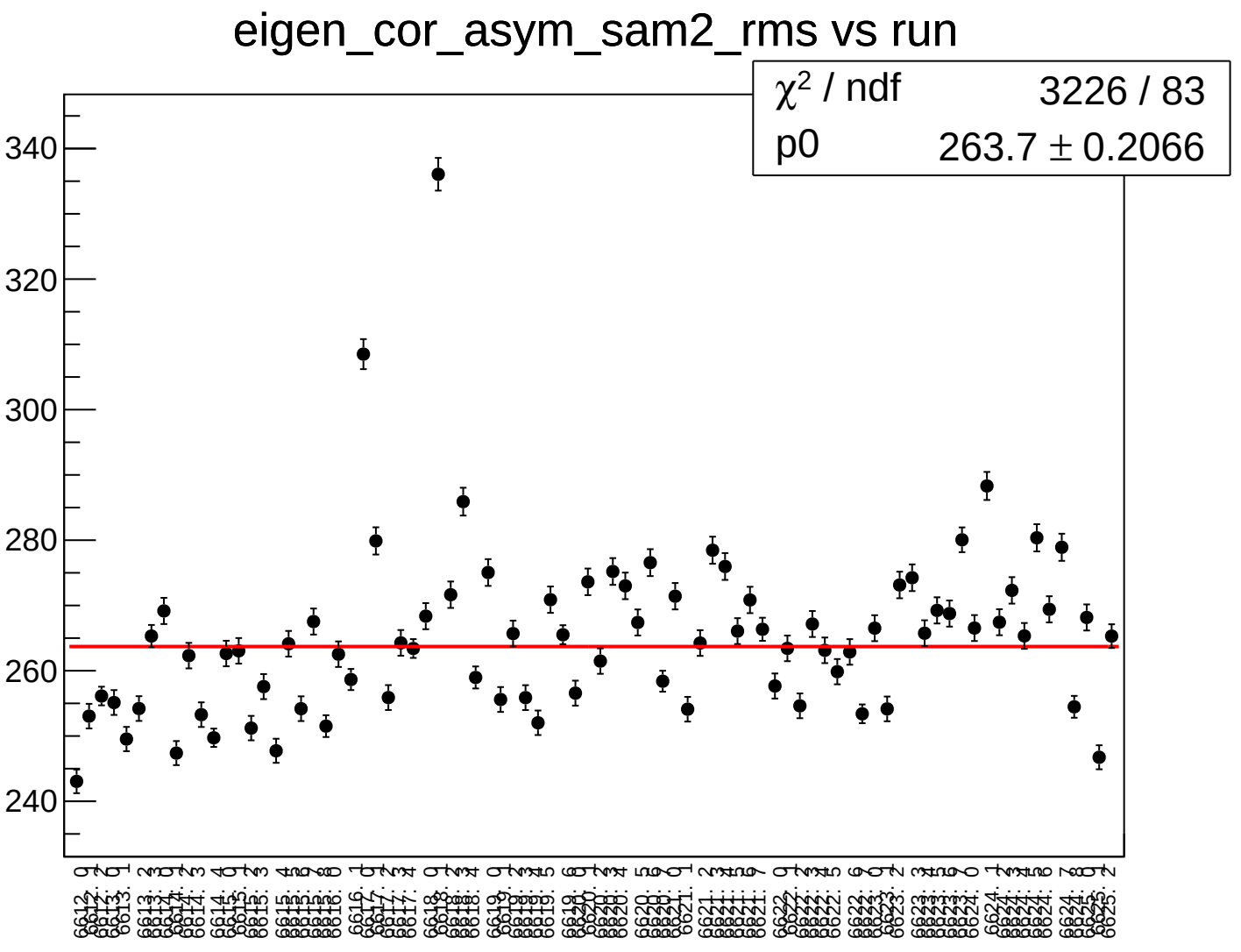

cor_asym_sam2_rms vs run
χ² / ndf 3226 / 83
p0 263.7 ± 0.2066
340
320
300
280
260
240

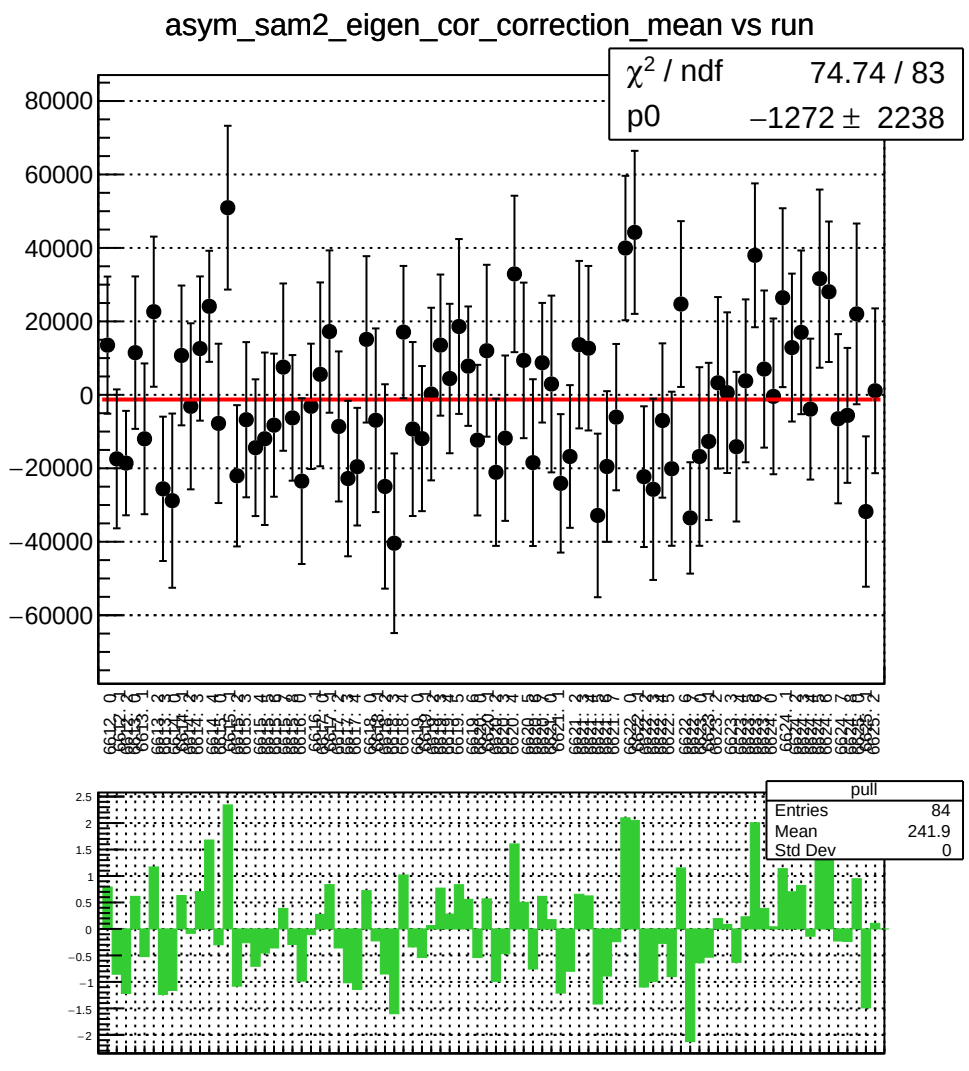

asym_sam2_cor_correction_mean vs run
χ² / ndf 74.74 / 83
p0 −1272 ± 2238
pull
Entries 84
Mean 241.9
Std Dev 0
pull1D
Entries 84
Mean 0.0119
Std Dev 0.9432

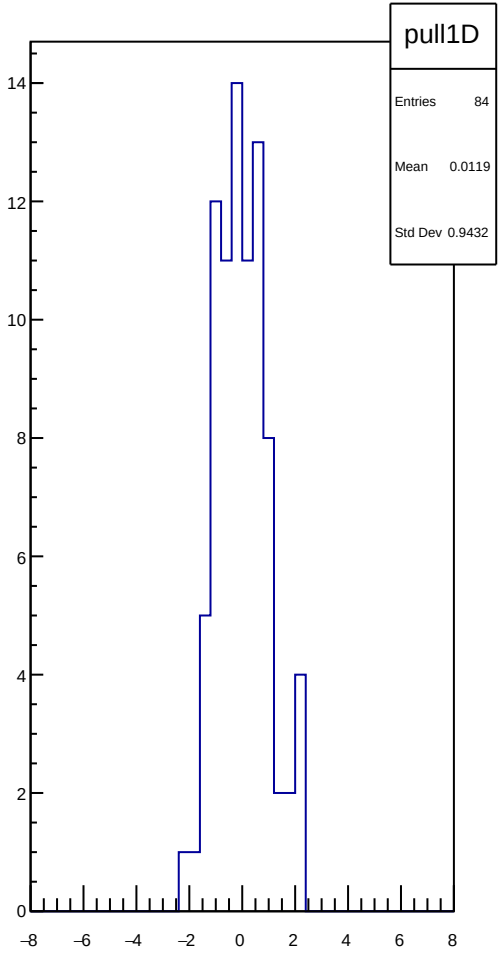

asym_sam2_cor_correction_rms vs run
χ² / ndf 1.182e+04 / 83
p0 2015 ± 1.583
2600
2400
2200
2000
1800

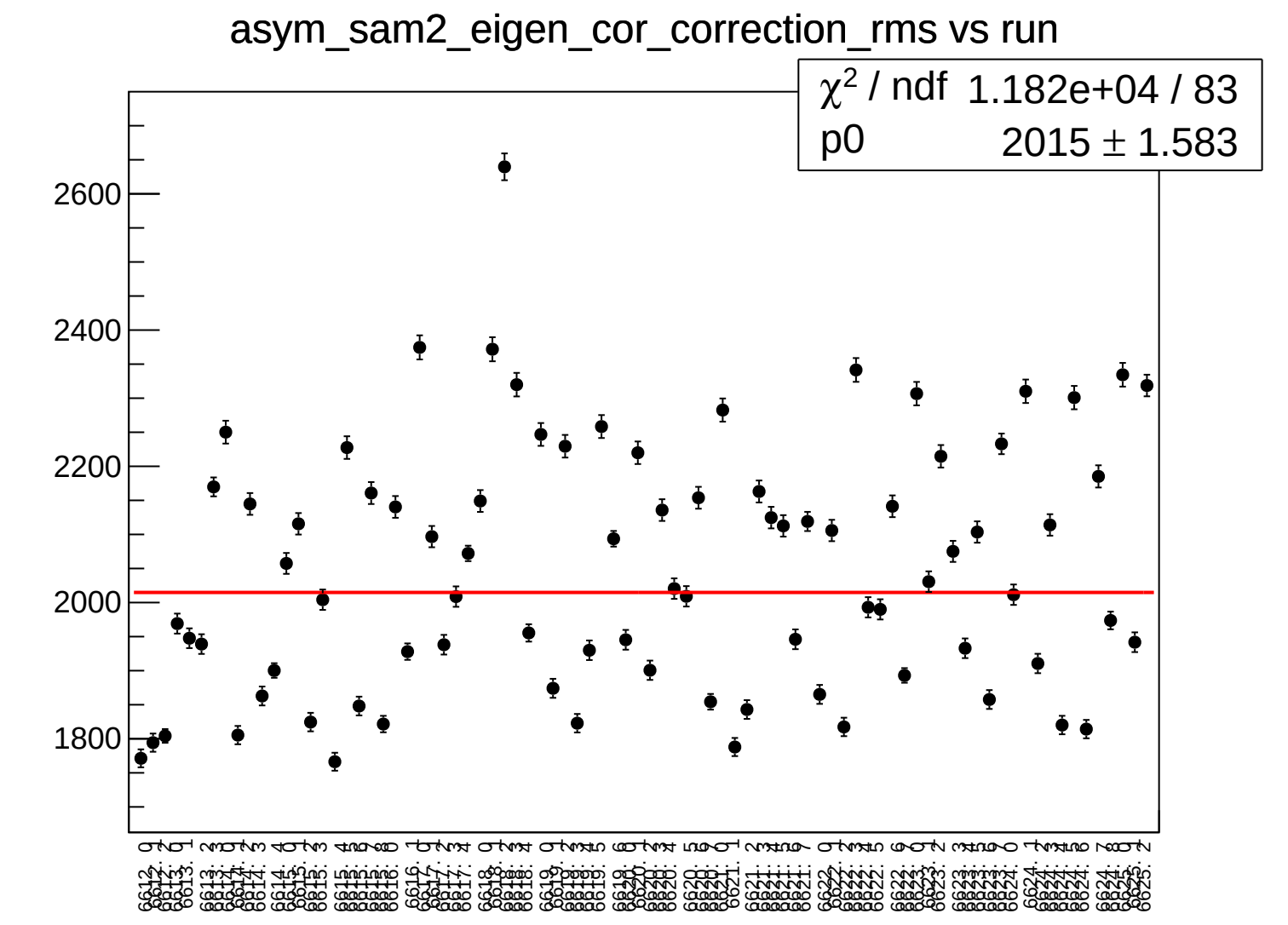

eigen_cor_asym_sam2_mean vs run
χ² / ndf 108.3 / 83
p0 132 ± 292.2
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 146.3
Std Dev 0
3
2
1
0
−1
−2
−3

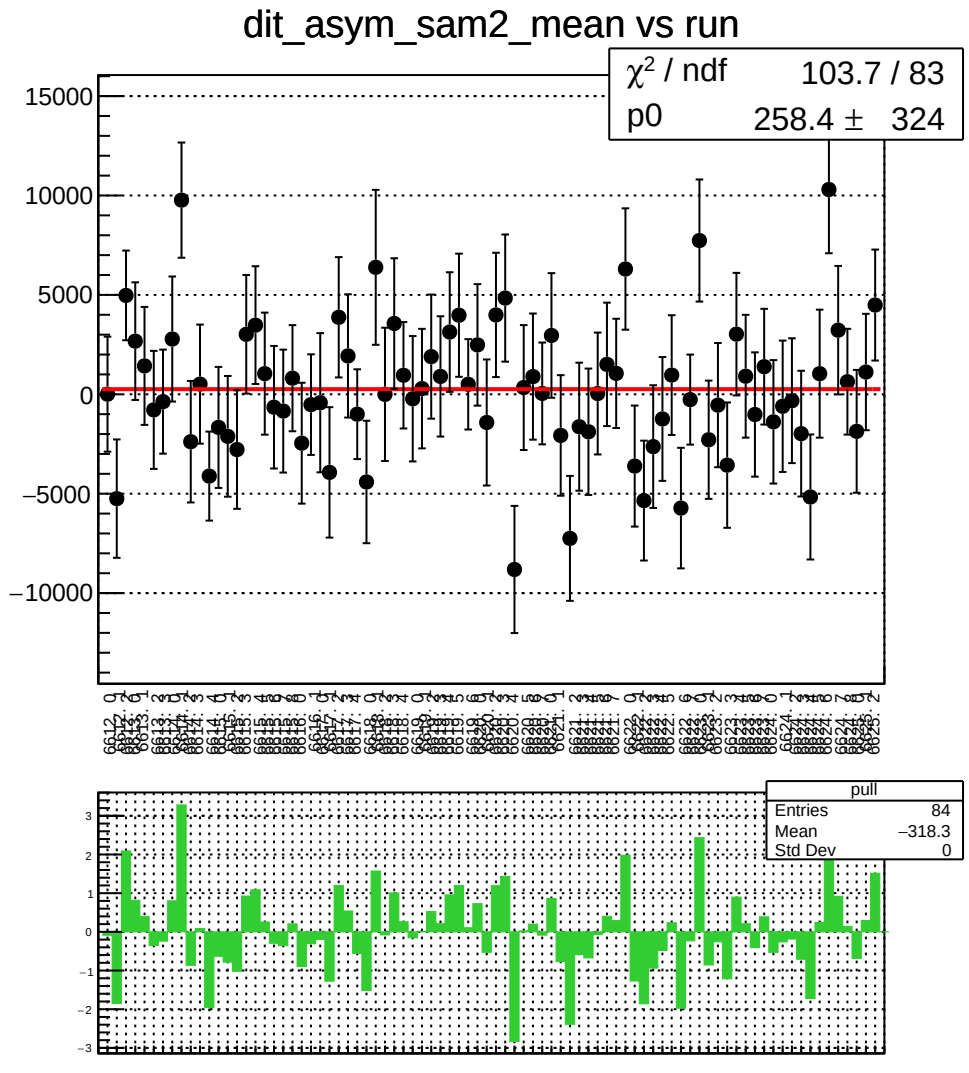

pull1D
Entries 84
Mean 0.004358
Std Dev 1.135
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

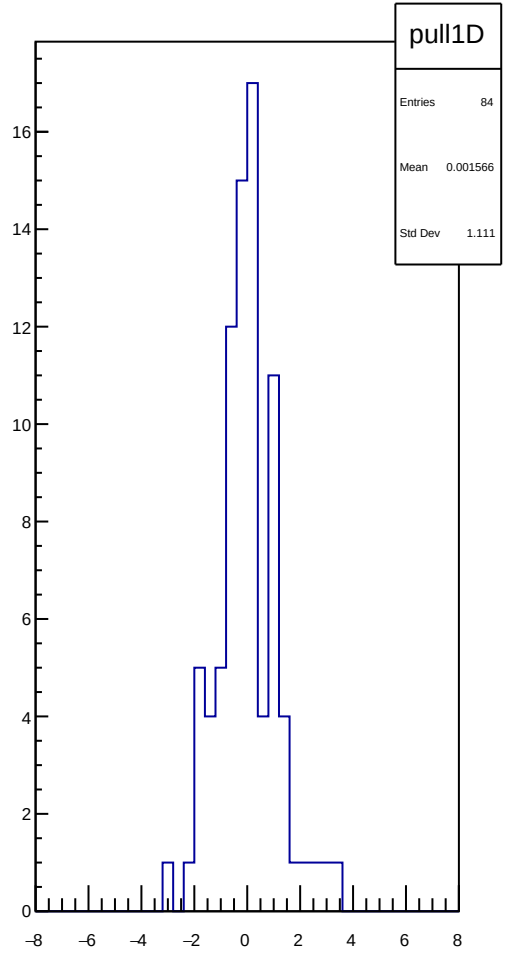

eigen_cor_asym_sam2_rms vs run
χ² / ndf 3226 / 83
p0 263.7 ± 0.2066
340
320
300
280
260
240

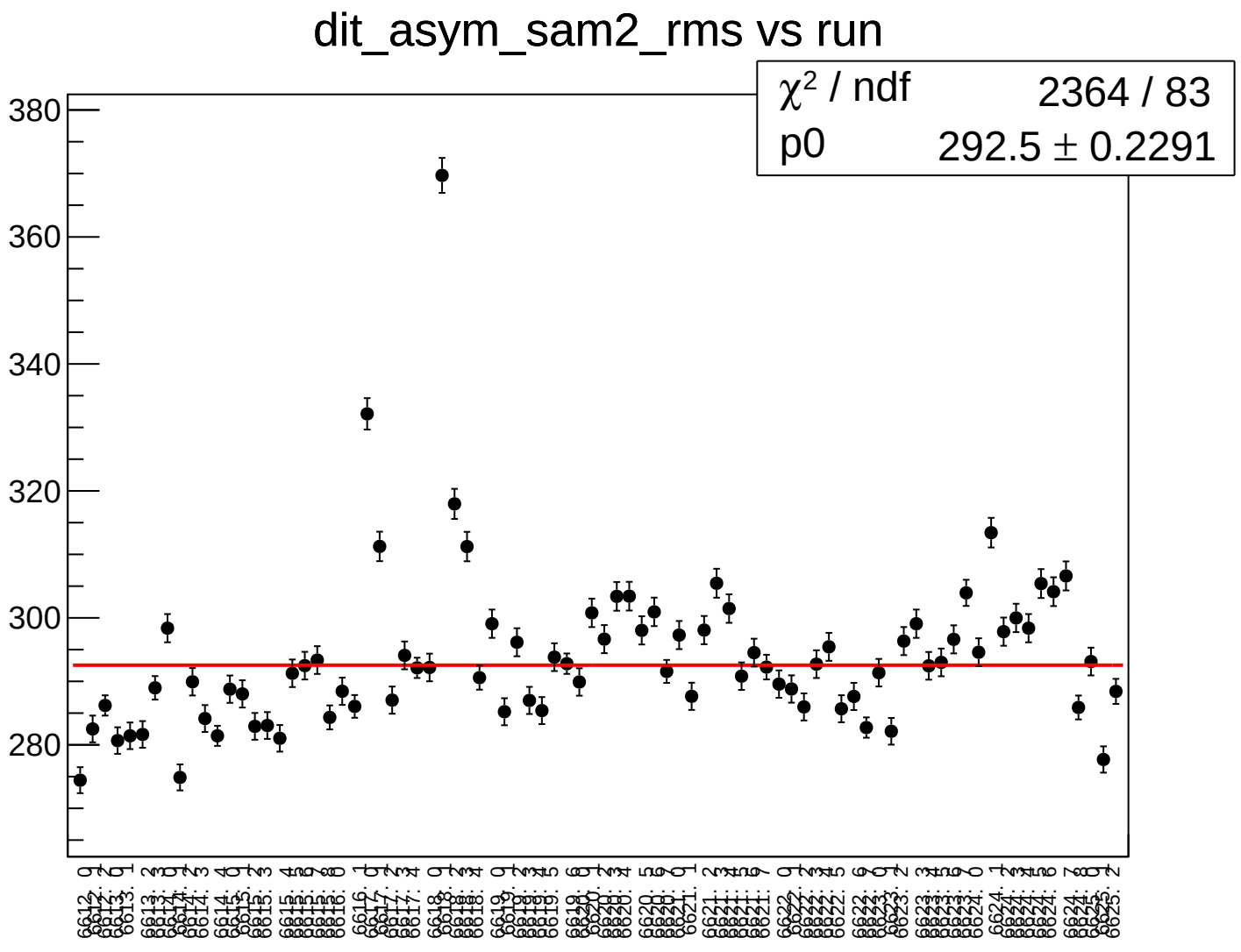

asym_sam2_eigen_cor_correction_mean vs run
χ² / ndf 74.74 / 83
p0 −1272 ± 2238
pull
Entries 84
Mean 241.9
Std Dev 0

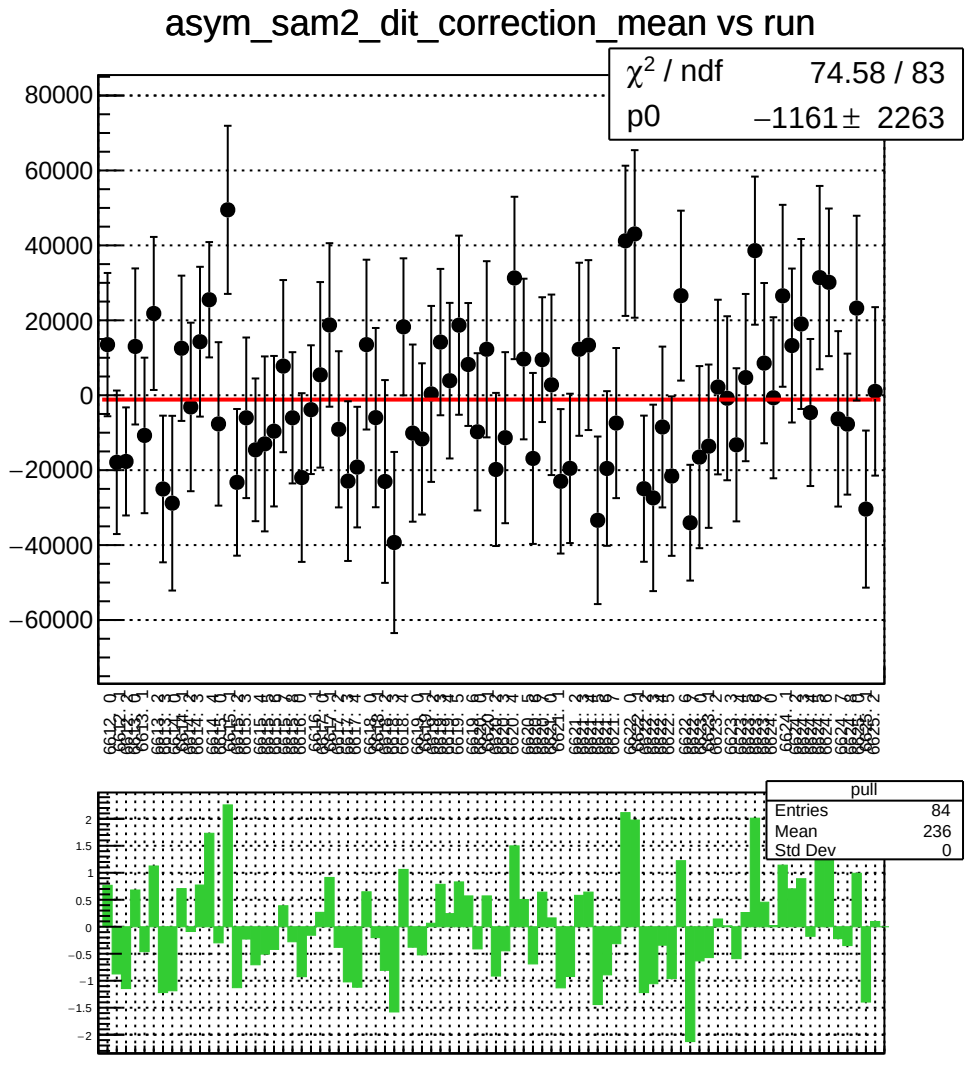

pull1D
Entries 84
Mean 0.0119
Std Dev 0.9432

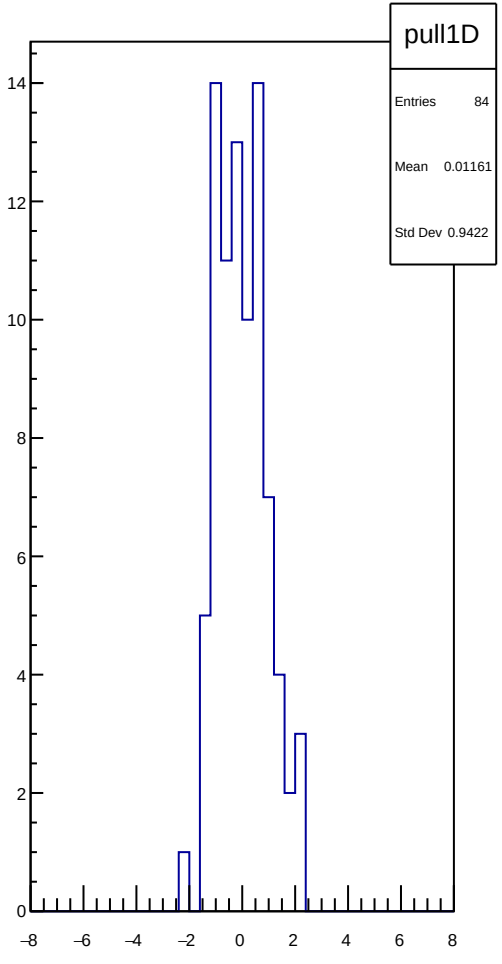

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 1.182e+04 / 83
p0 2015 ± 1.583
2600
2400
2200
2000
1800

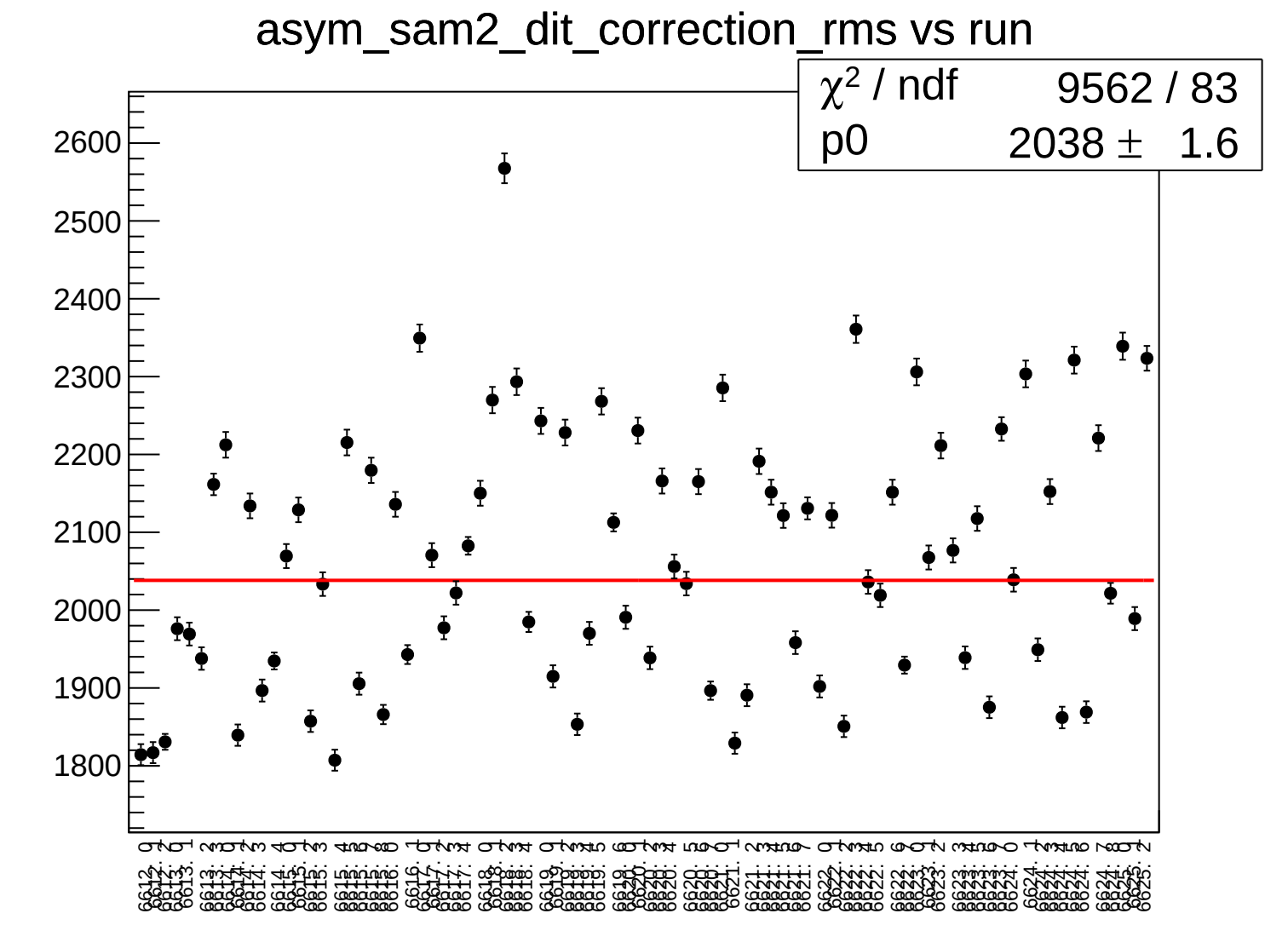

dit_asym_sam2_mean vs run
χ² / ndf 103.7 / 83
p0 258.4 ± 324
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −318.3
Std Dev 0
3
2
1
0
−1
−2
−3

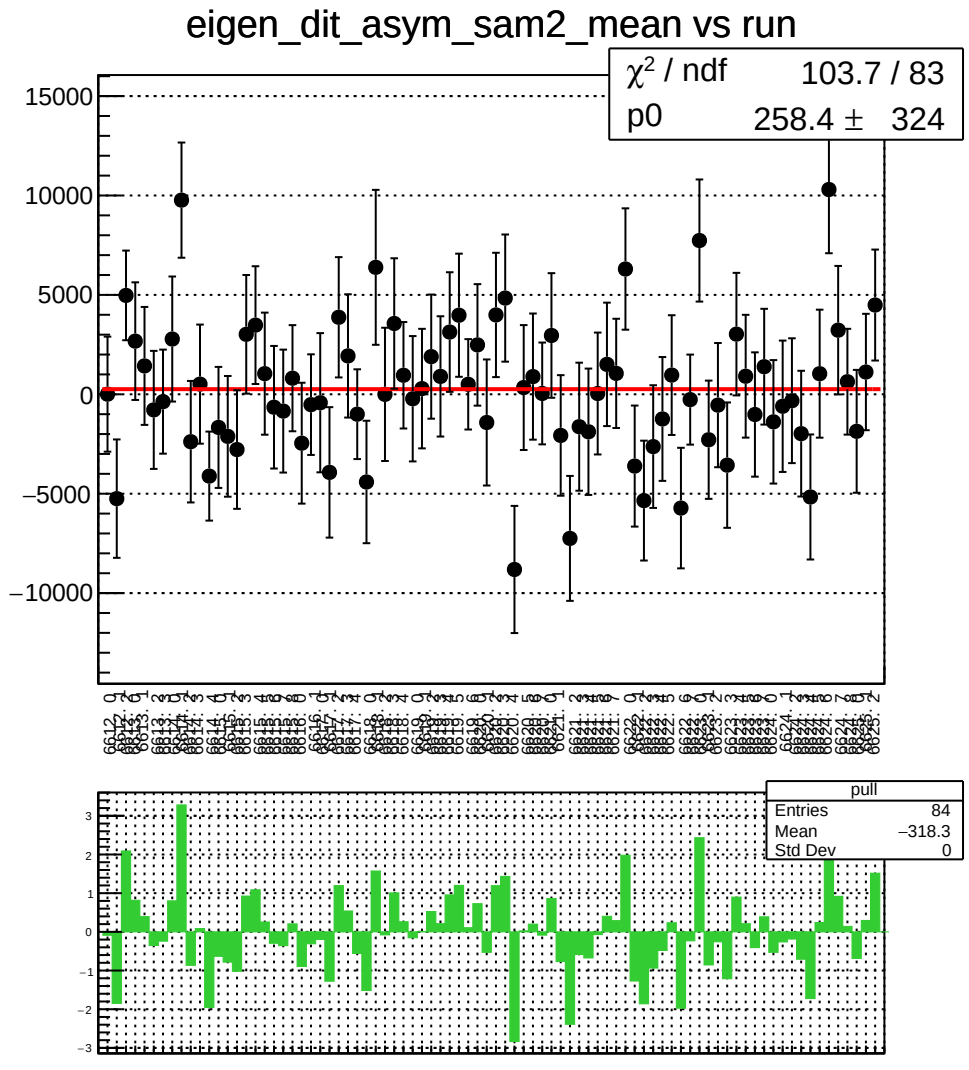

pull1D
Entries 84
Mean 0.001566
Std Dev 1.111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

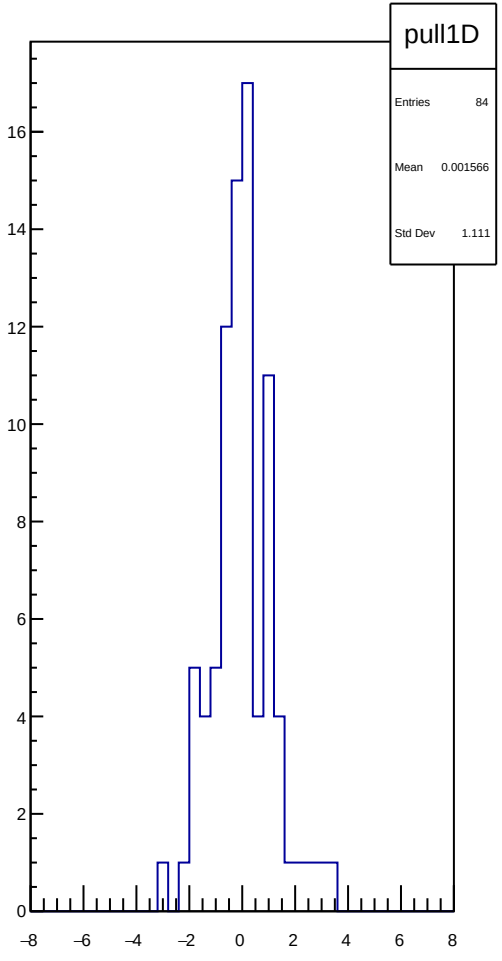

dit_asym_sam2_rms vs run
χ² / ndf 2364 / 83
p0 292.5 ± 0.2291
380
360
340
320
300
280

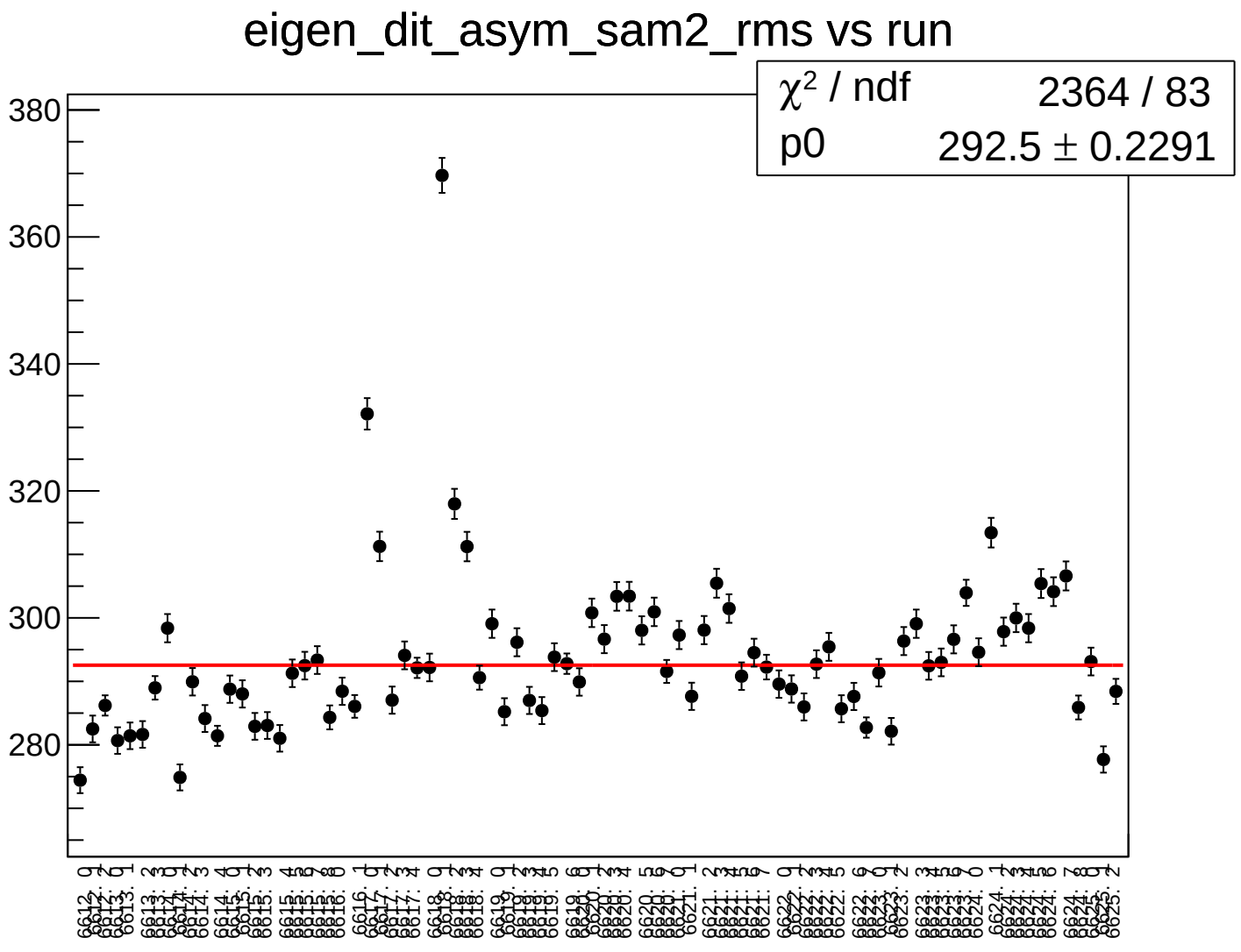

asym_sam2_dit_correction_mean vs run
χ² / ndf 74.58 / 83
p0 −1161 ± 2263
pull
Entries 84
Mean 236
Std Dev 0

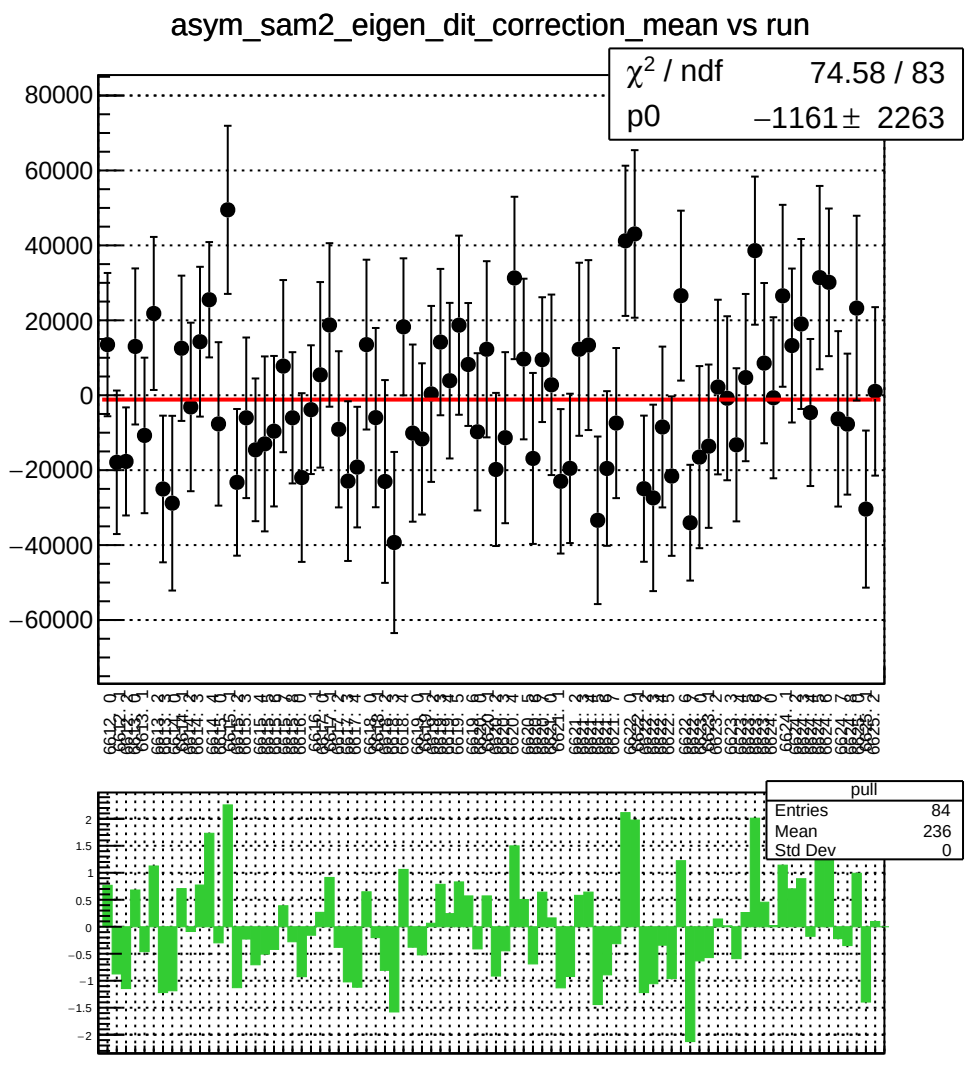

pull1D
Entries 84
Mean 0.01161
Std Dev 0.9422

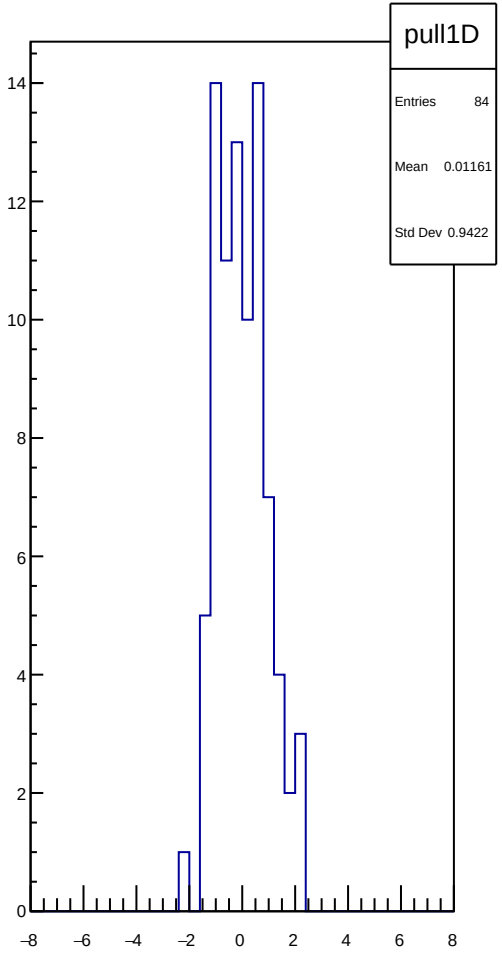

asym_sam2_dit_correction_rms vs run
χ² / ndf 9562 / 83
p0 2038 ± 1.6
2600
2500
2400
2300
2200
2100
2000
1900
1800

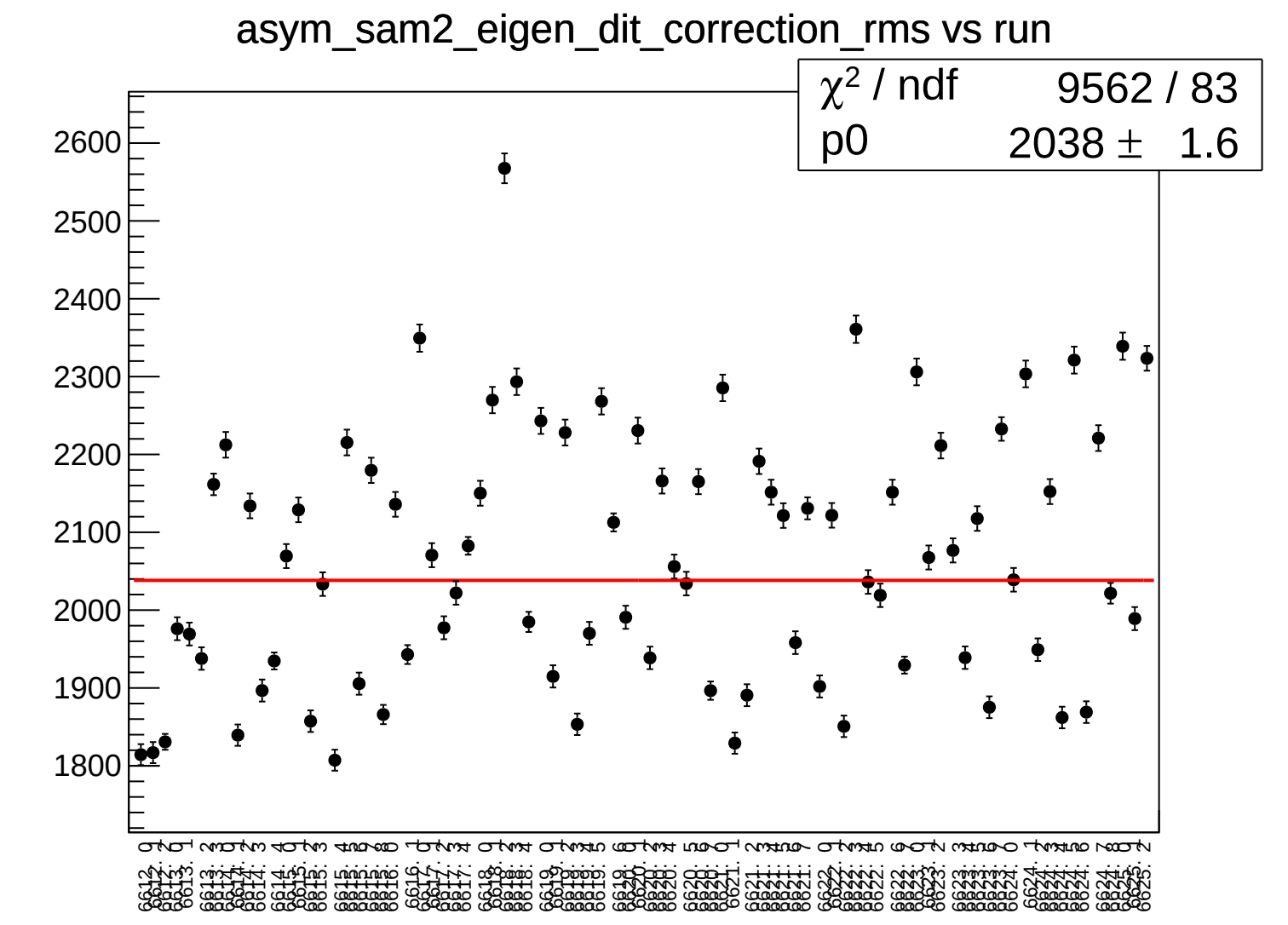

eigen_dit_asym_sam2_mean vs run
χ² / ndf 103.7 / 83
p0 258.4 ± 324
pull
Entries 84
Mean −318.3
Std Dev 0

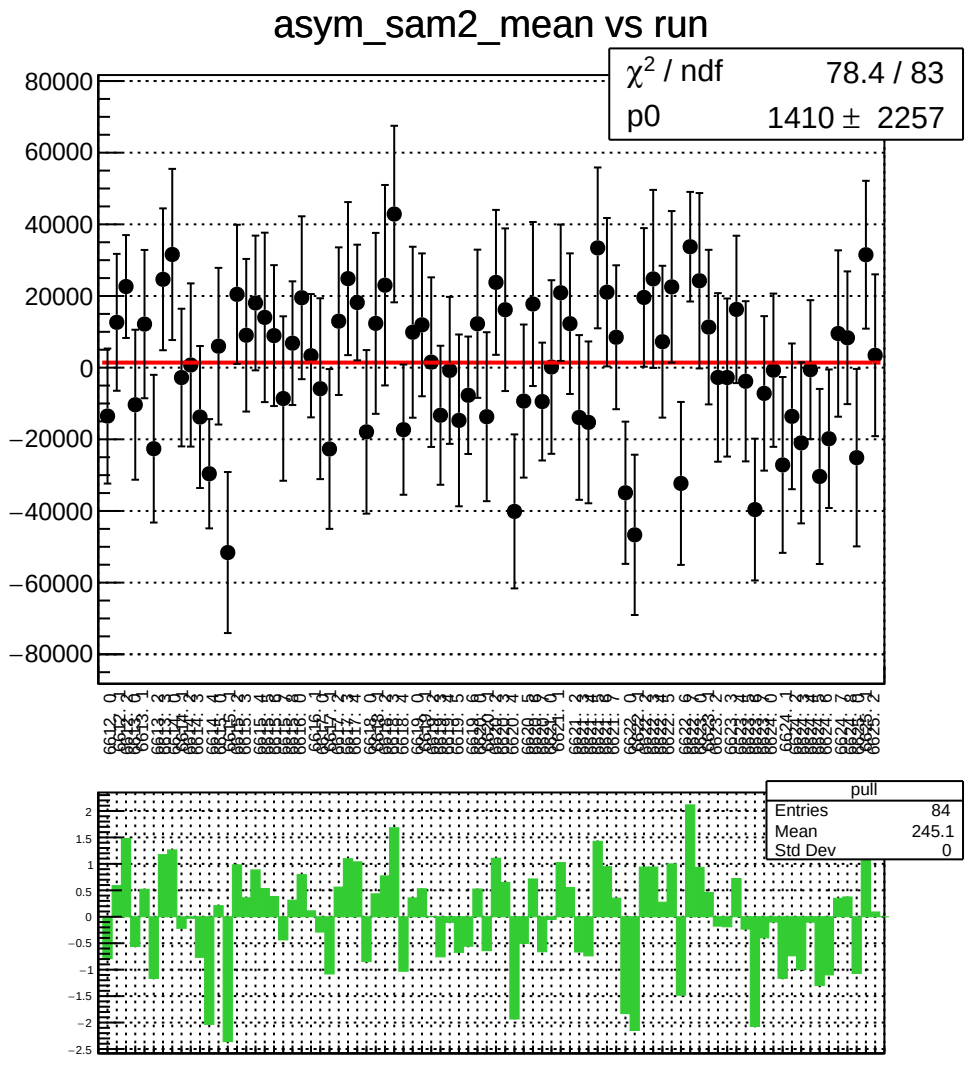

pull1D
Entries 84
Mean 0.001566
Std Dev 1.111

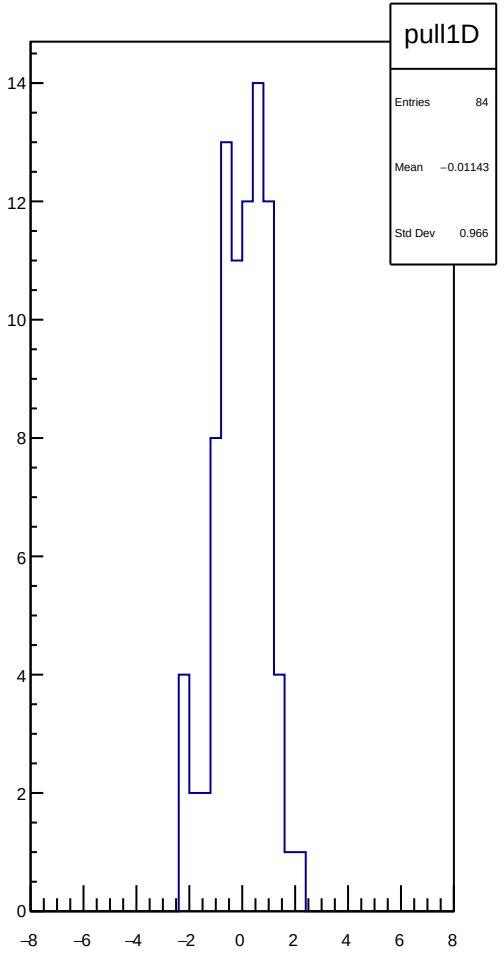

eigen_dit_asym_sam2_rms vs run
χ² / ndf 2364 / 83
p0 292.5 ± 0.2291
380
360
340
320
300
280

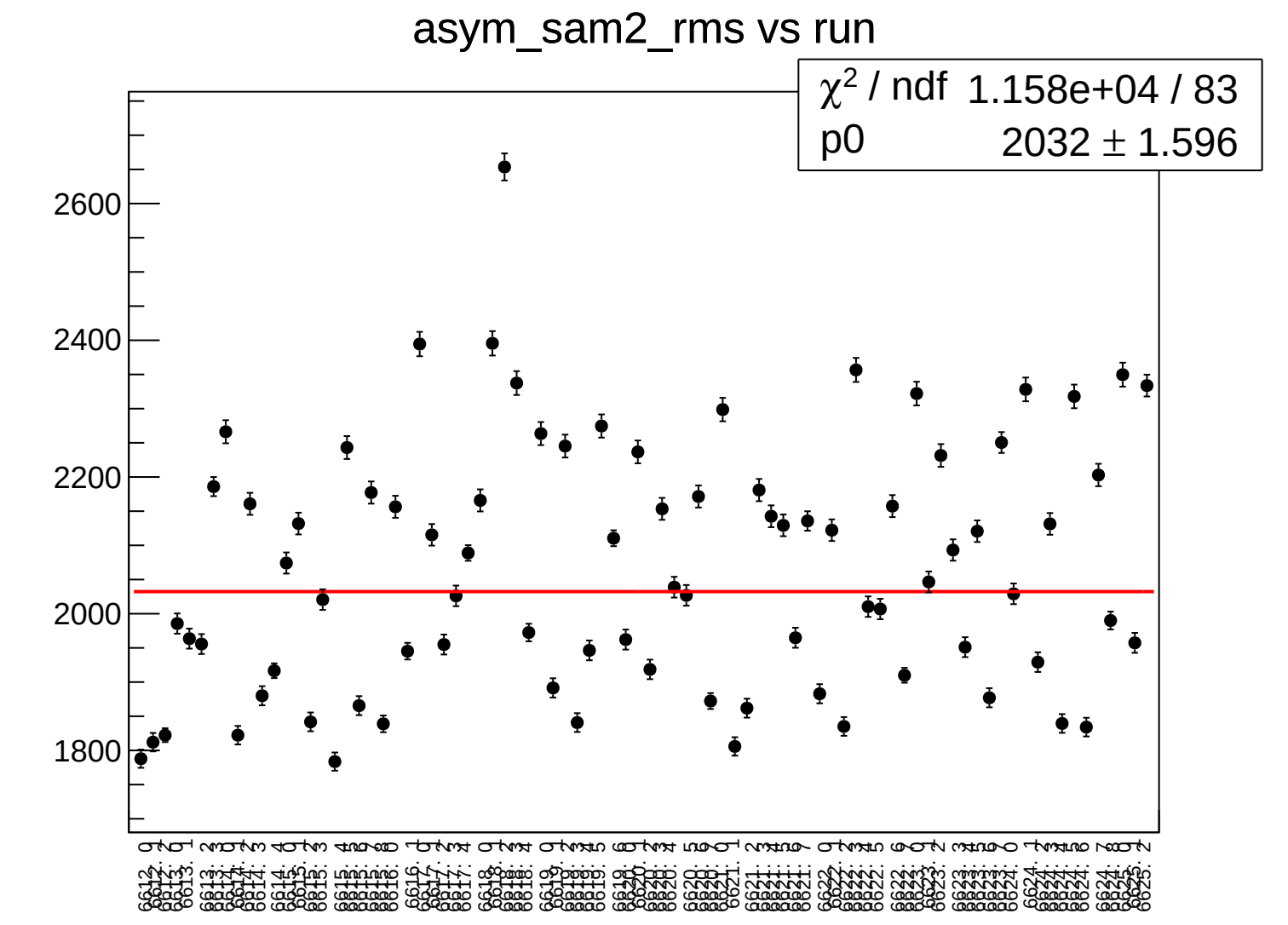

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 74.58 / 83
p0 −1161 ± 2263
pull
Entries 84
Mean 236
Std Dev 0

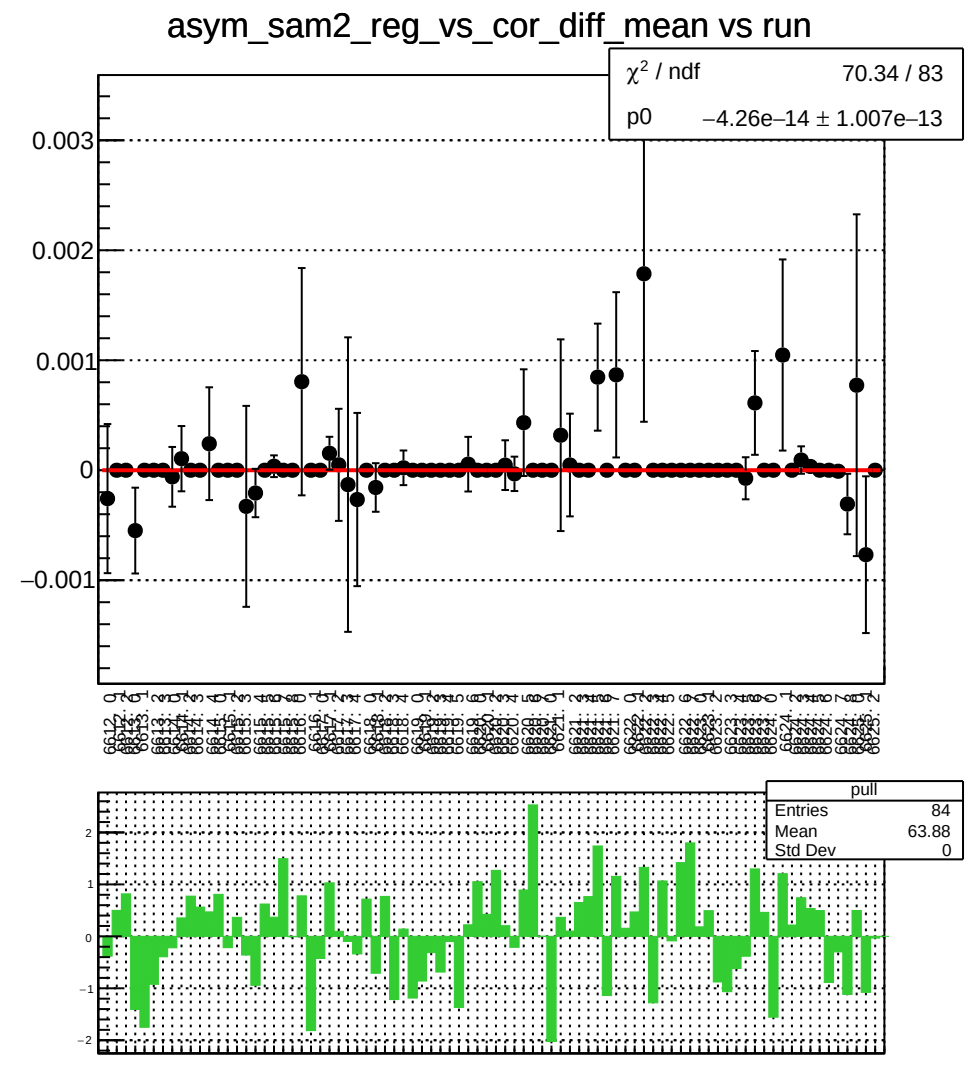

pull1D
Entries 84
Mean 0.01161
Std Dev 0.9422

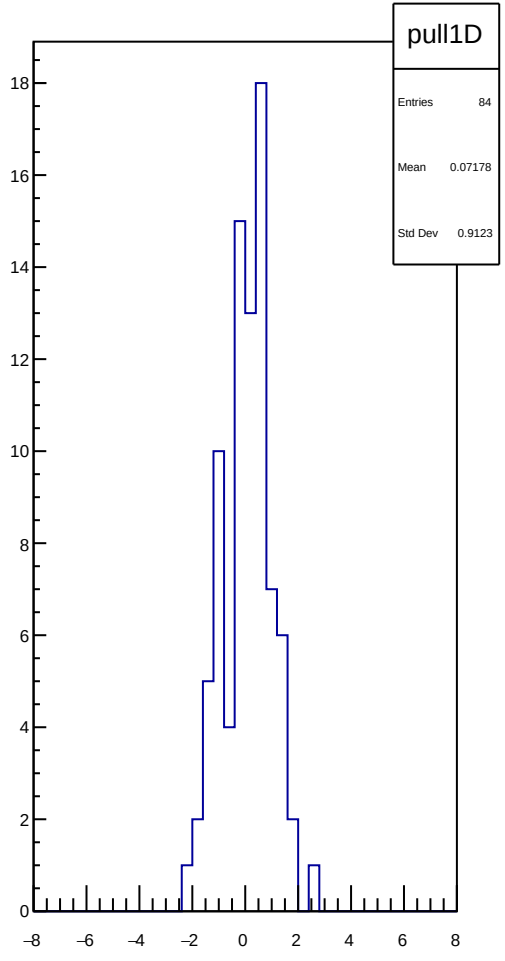

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 9562 / 83
p0 2038 ± 1.6
2600
2500
2400
2300
2200
2100
2000
1900
1800

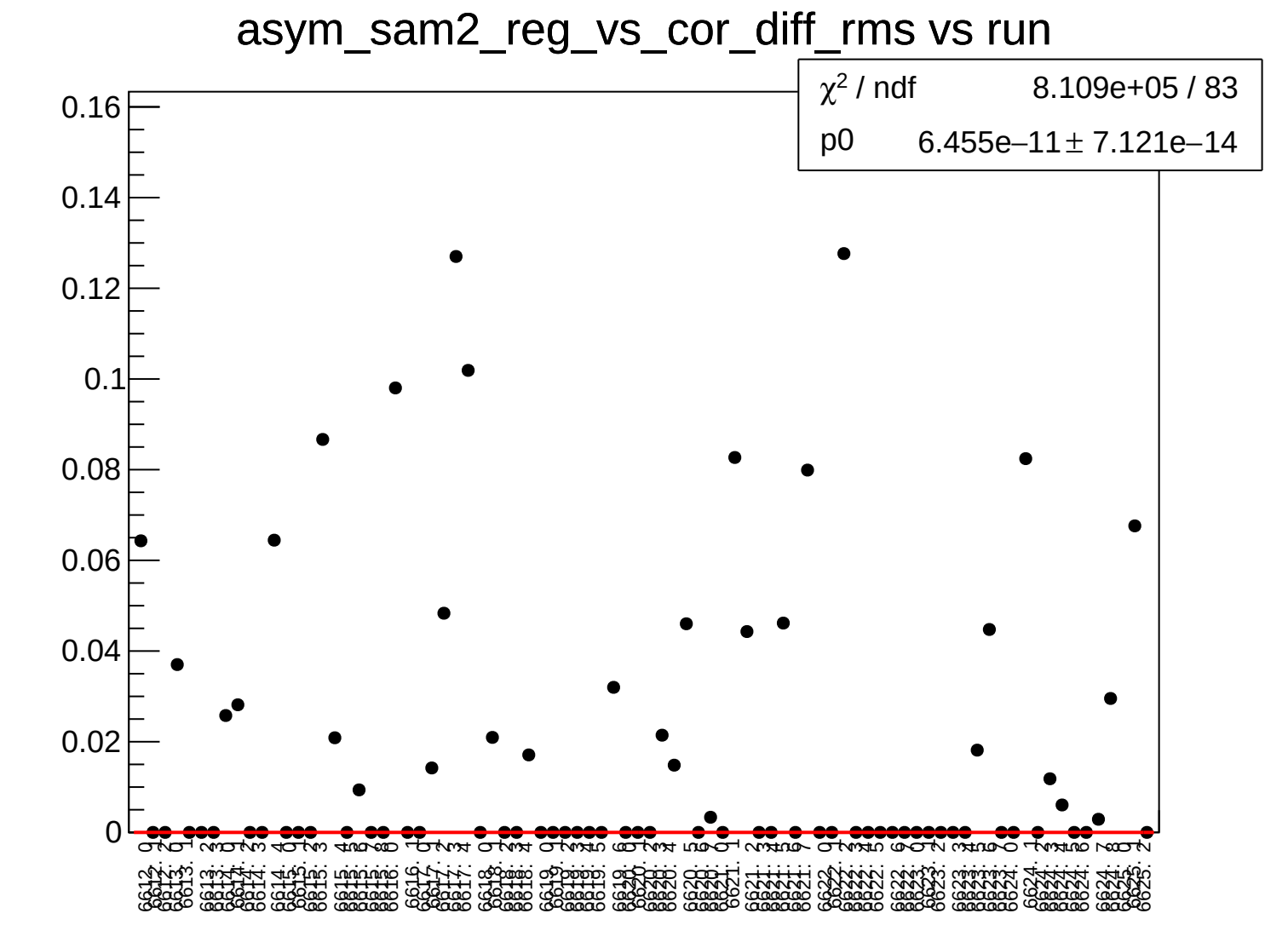

asym_sam2_mean vs run
χ² / ndf 78.4 / 83
p0 1410 ± 2257
pull
Entries 84
Mean 245.1
Std Dev 0

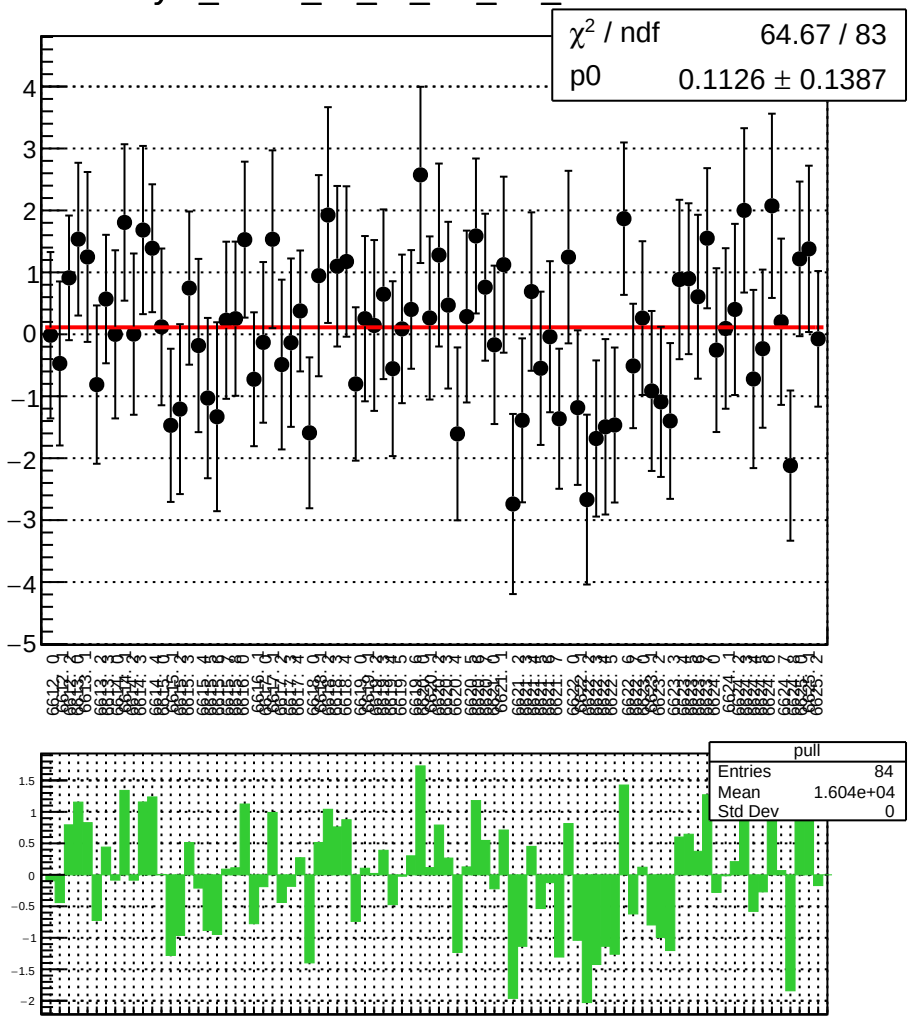

pull1D
Entries 84
Mean −0.01143
Std Dev 0.966

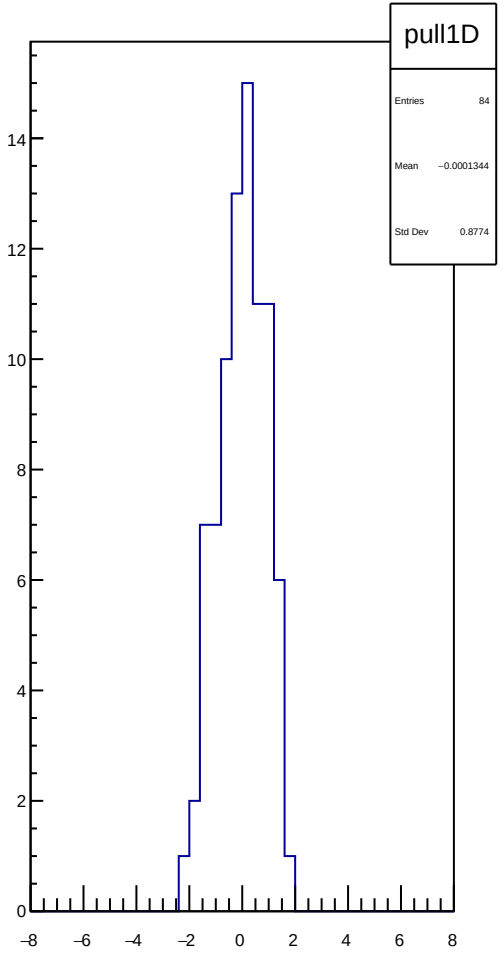

asym_sam2_rms vs run
χ² / ndf 1.158e+04 / 83
p0 2032 ± 1.596
2600
2400
2200
2000
1800

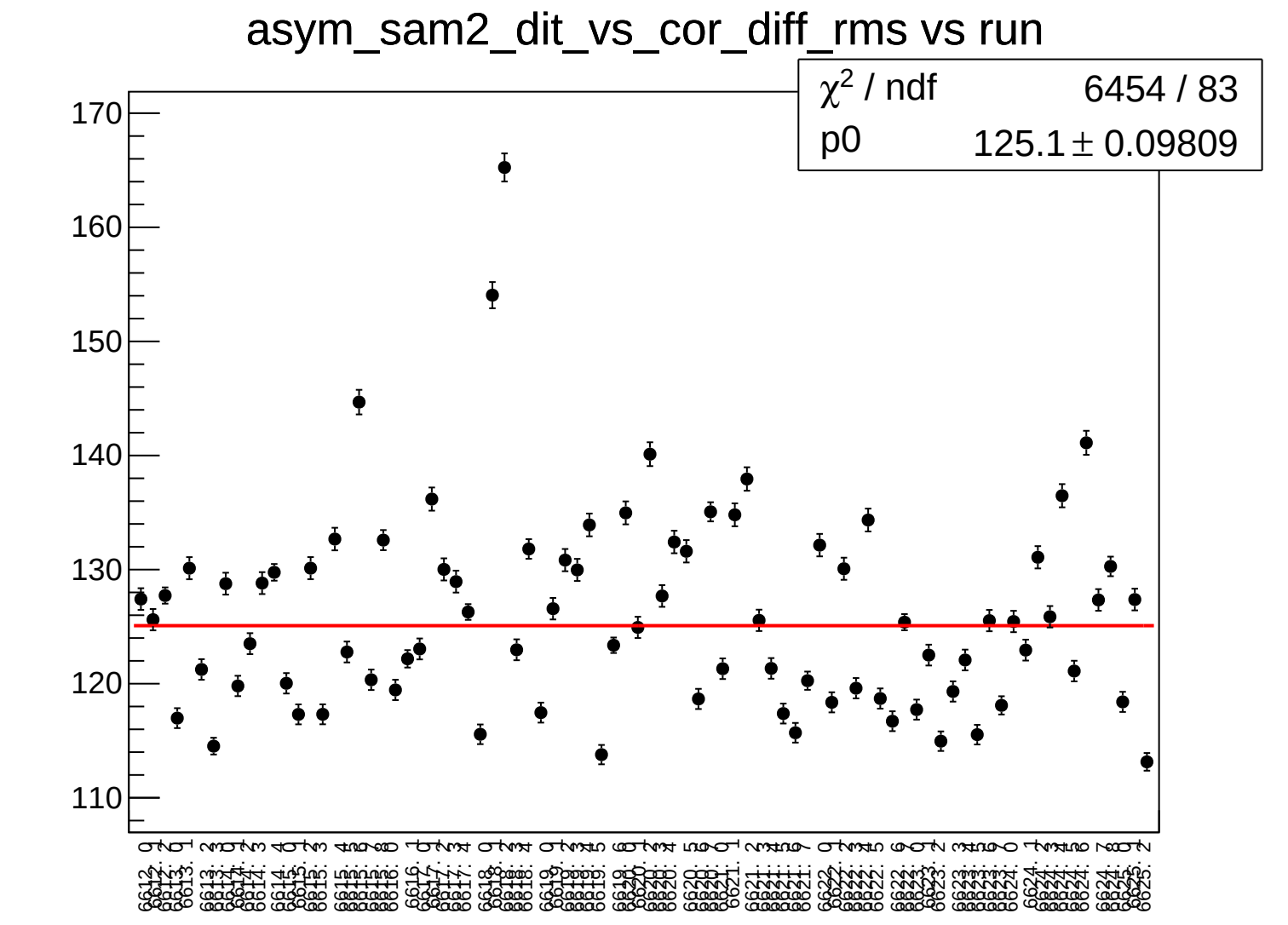

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 70.34 / 83
p0 −4.26e−14 ± 1.007e−13
0.003
0.002
0.001
0
−0.001
pull
Entries 84
Mean 63.88
Std Dev 0
2
1
0
−1
−2

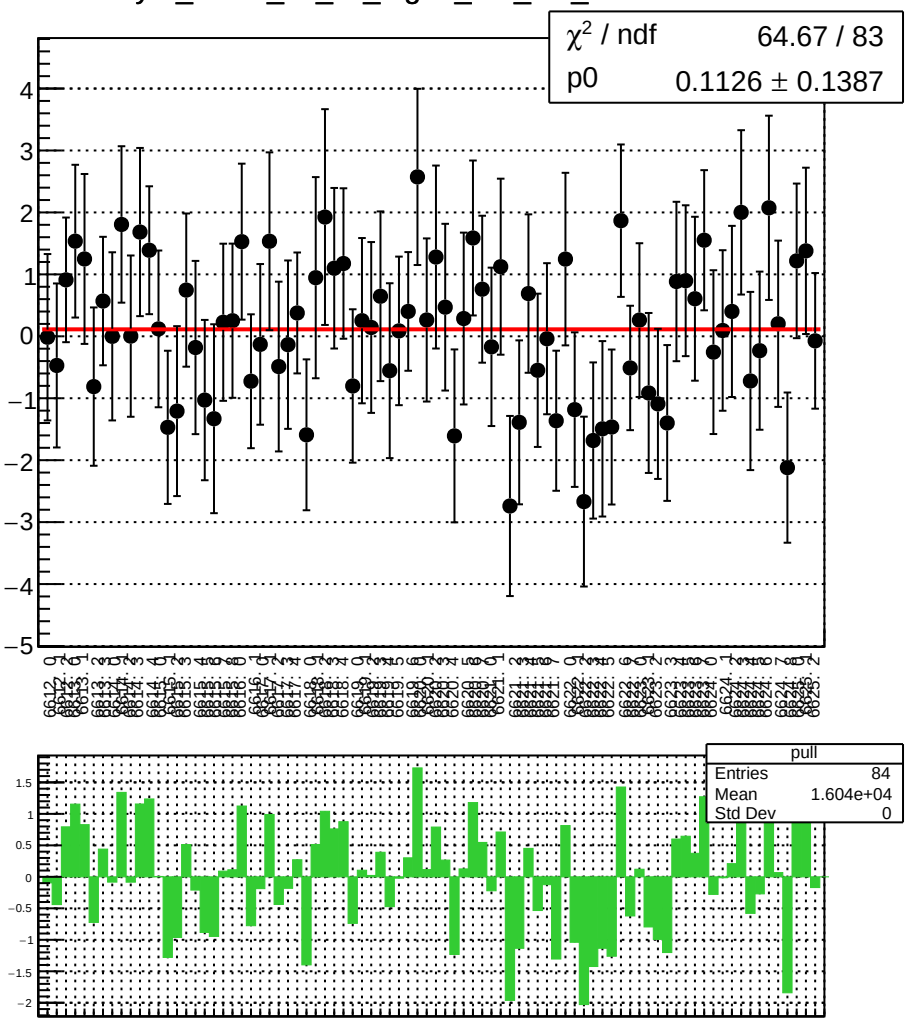

pull1D
Entries 84
Mean 0.07178
Std Dev 0.9123
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

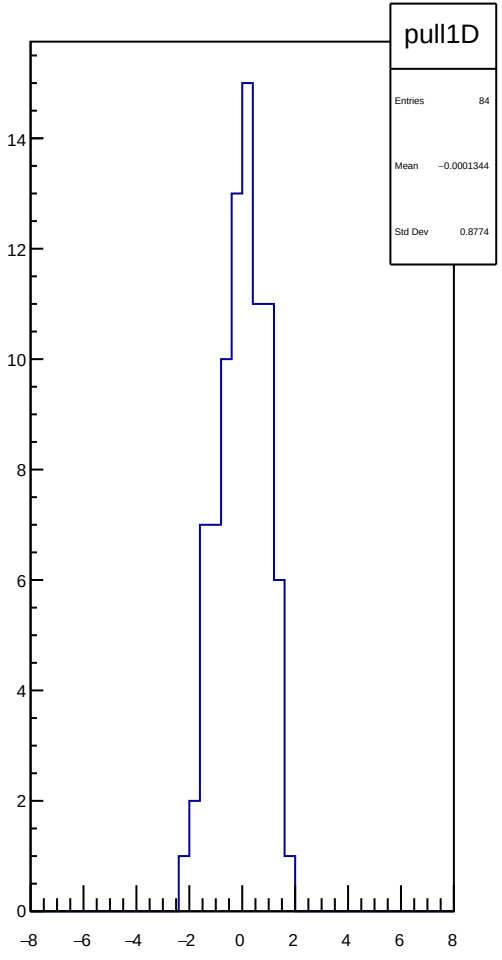

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 8.109e+05 / 83
p0 6.455e−11 ± 7.121e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

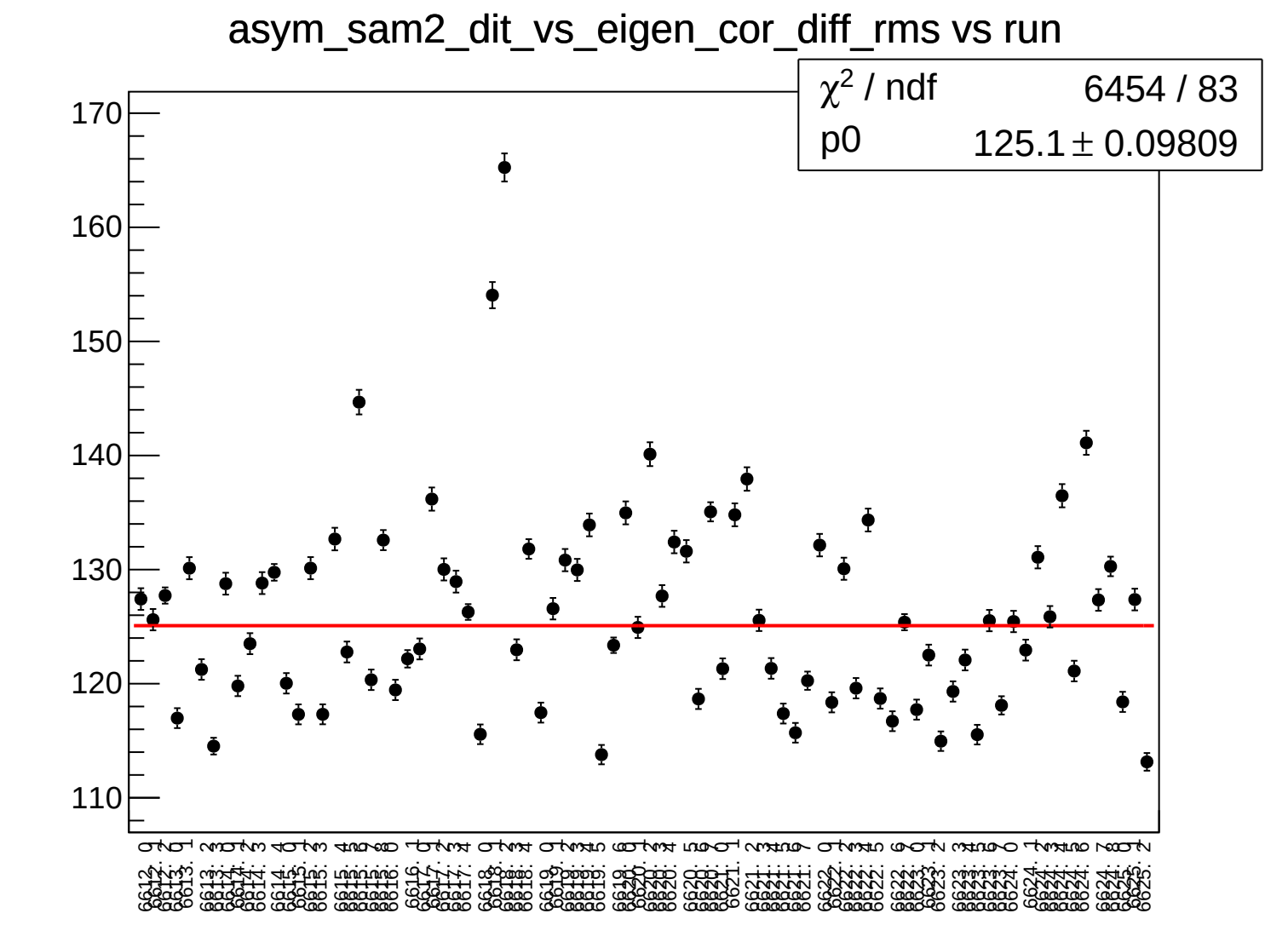

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 64.67 / 83
p0 0.1126 ± 0.1387
pull
Entries 84
Mean 1.604e+04
Std Dev 0

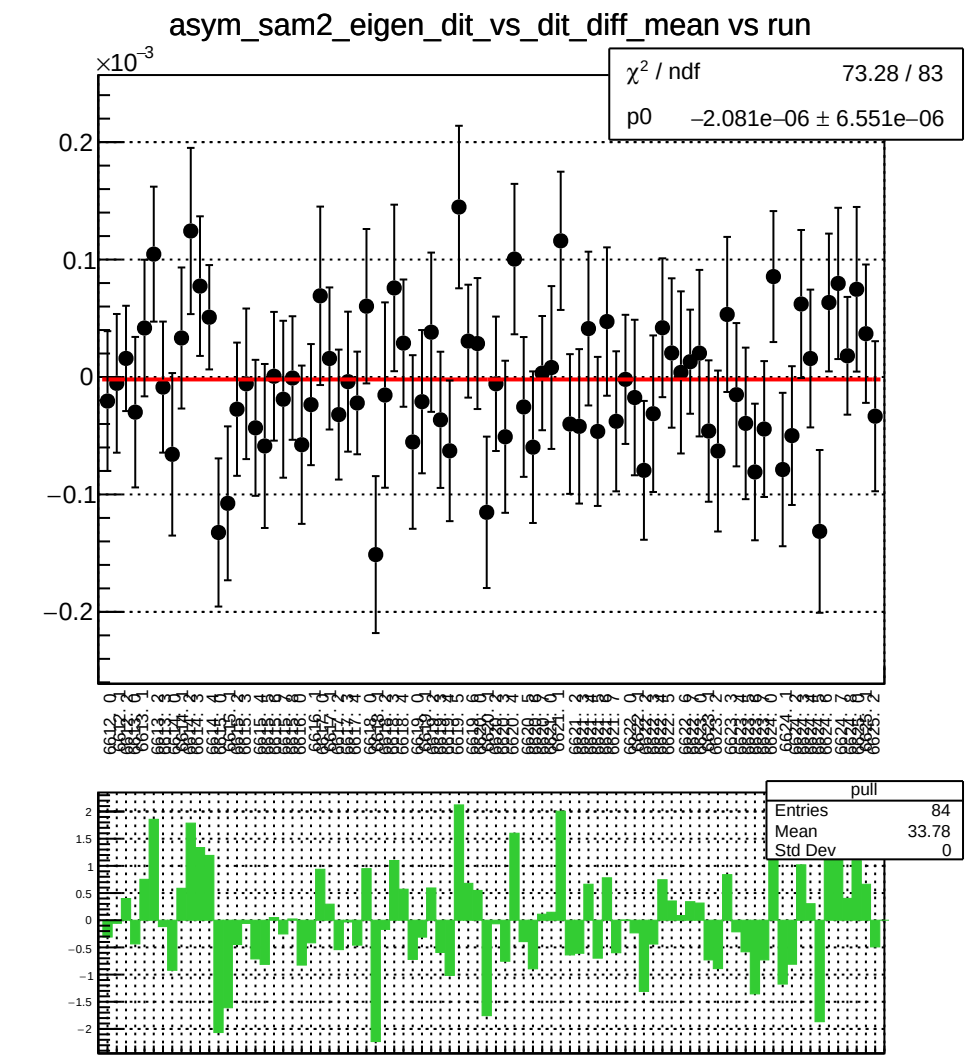

pull1D
Entries 84
Mean −0.0001344
Std Dev 0.8774

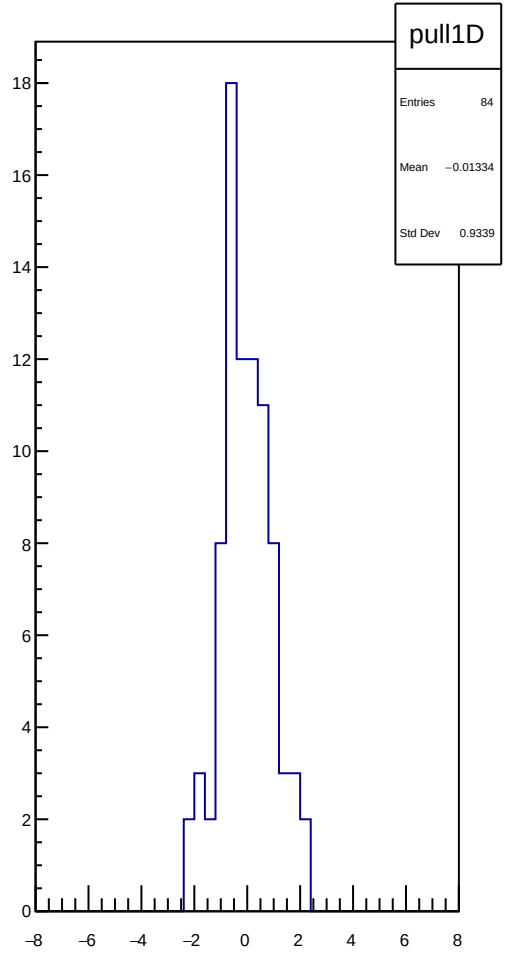

asym_sam2_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6454 / 83
p0 125.1 ± 0.09809
170
160
150
140
130
120
110

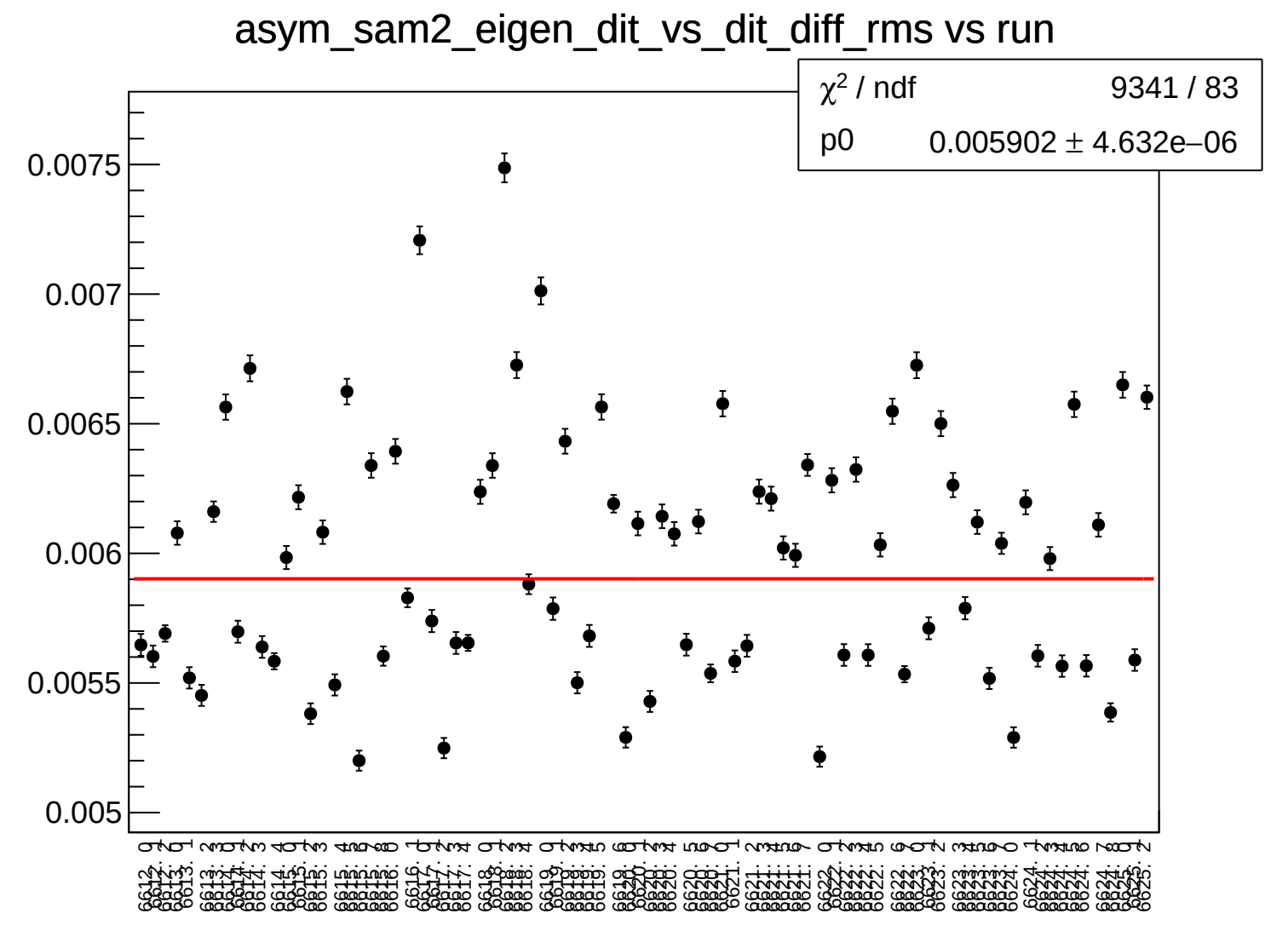

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.67 / 83
p0 0.1126 ± 0.1387
pull
Entries 84
Mean 1.604e+04
Std Dev 0

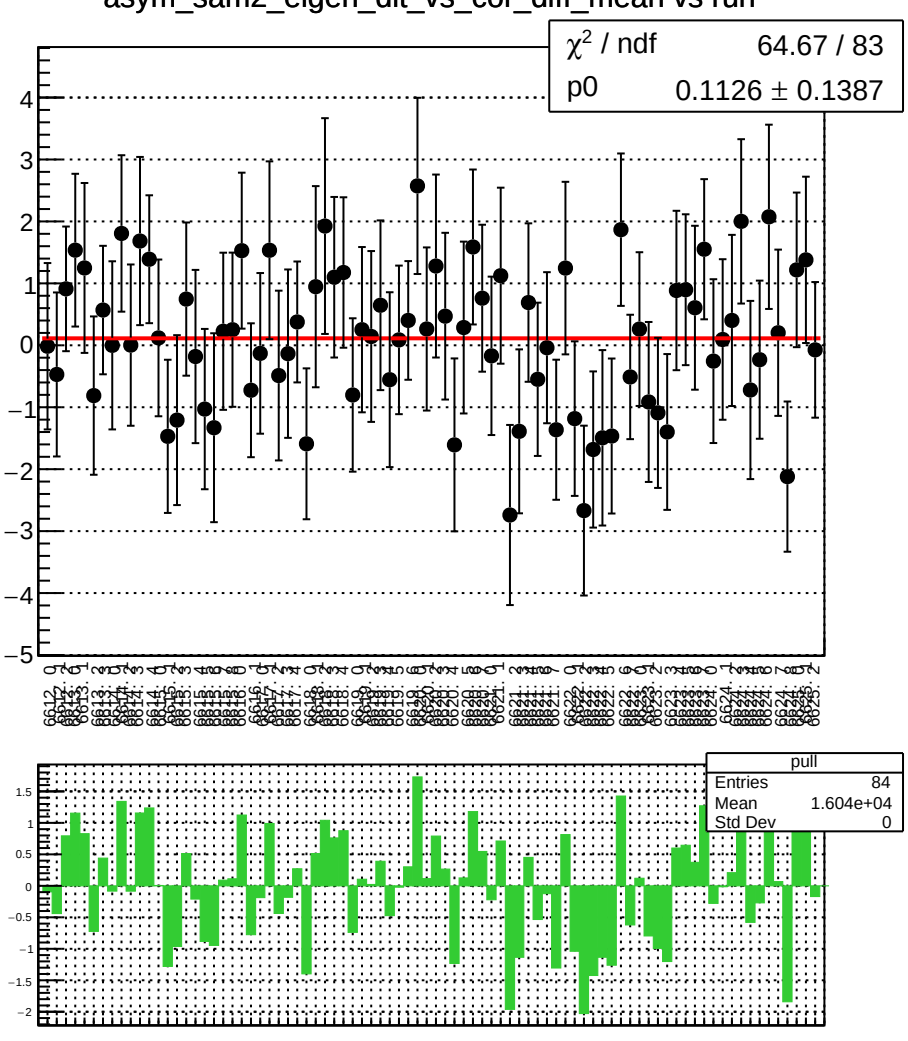

pull1D
Entries 84
Mean −0.0001344
Std Dev 0.8774

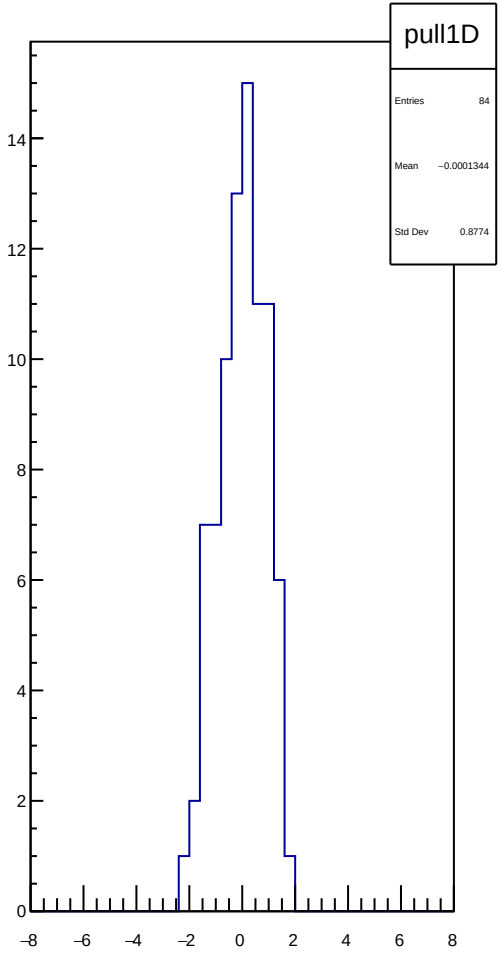

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6454 / 83
p0 125.1 ± 0.09809
170
160
150
140
130
120
110

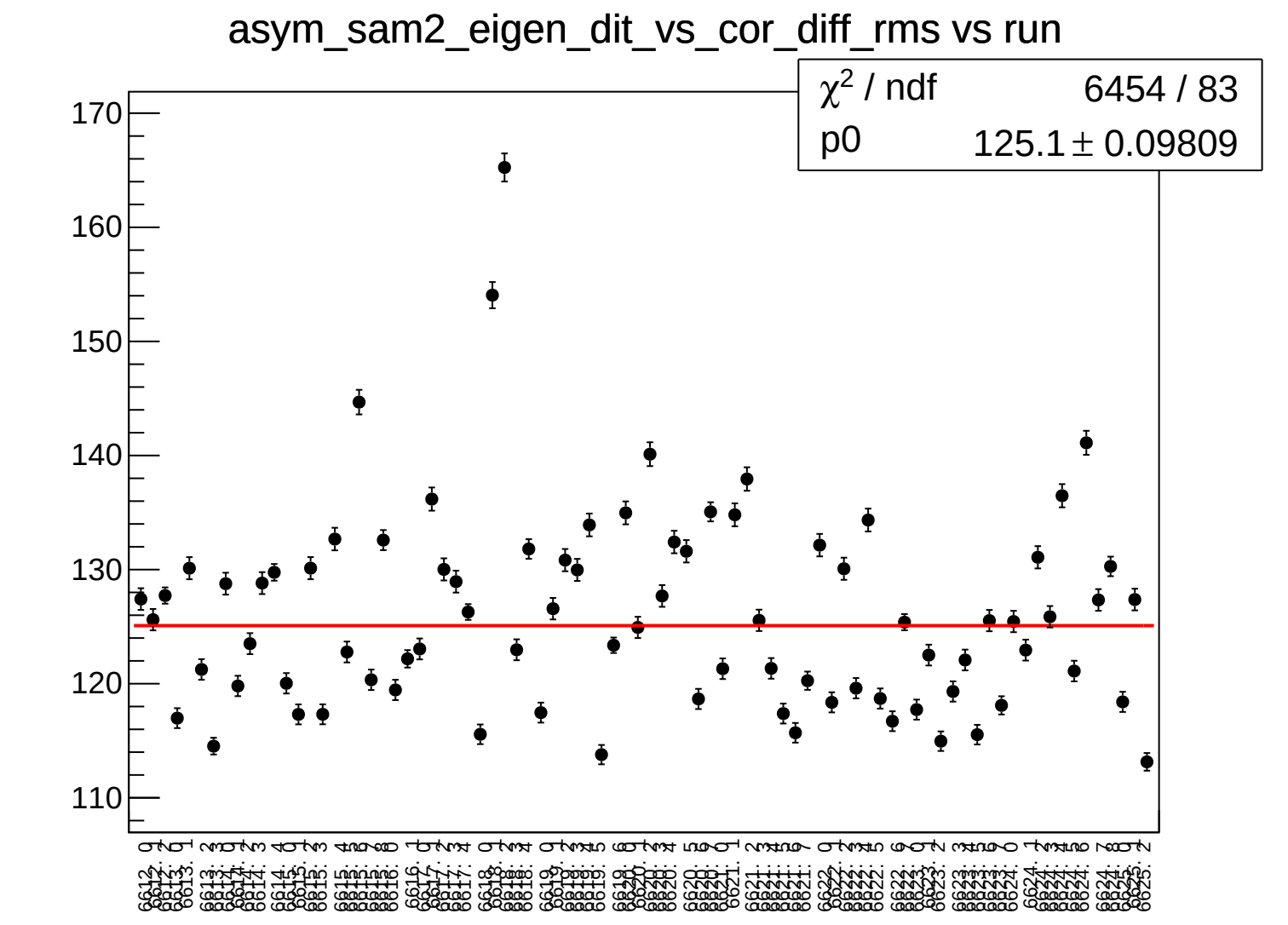

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 73.28 / 83
p0 −2.081e−06 ± 6.551e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 84
Mean 33.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

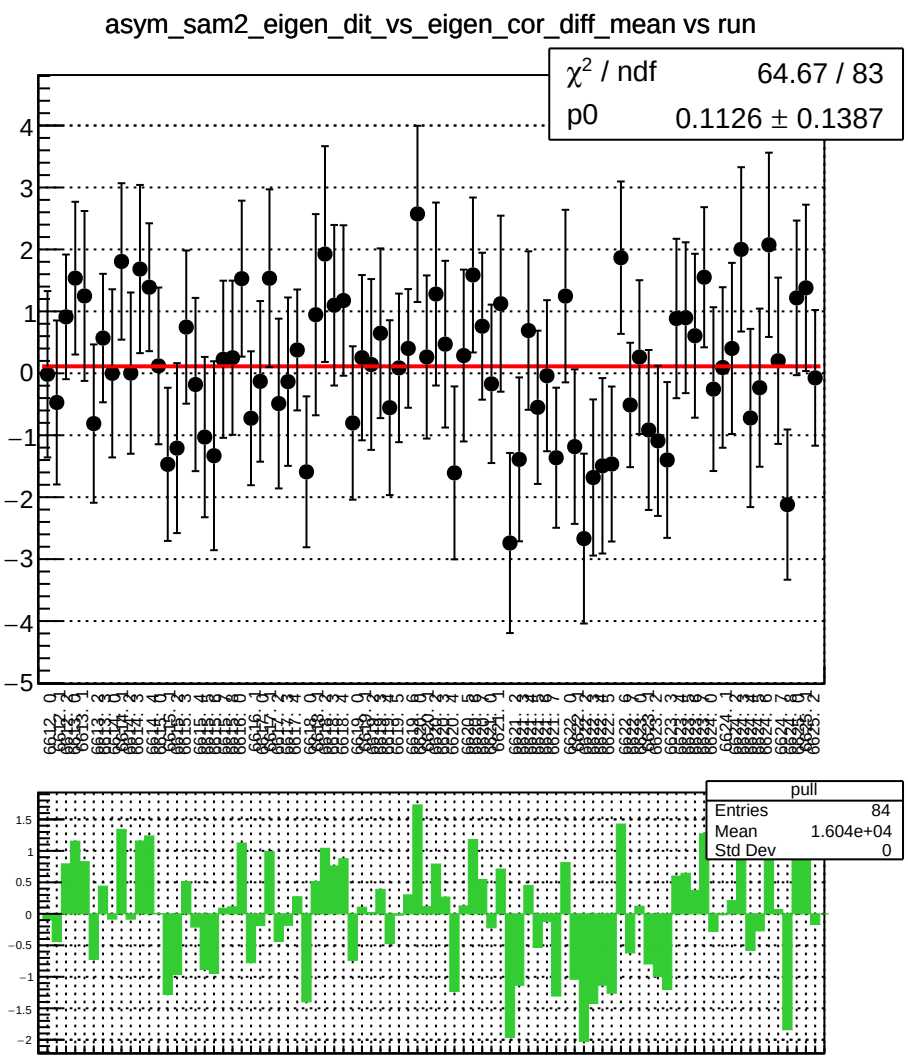

pull1D
Entries 84
Mean −0.01334
Std Dev 0.9339
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

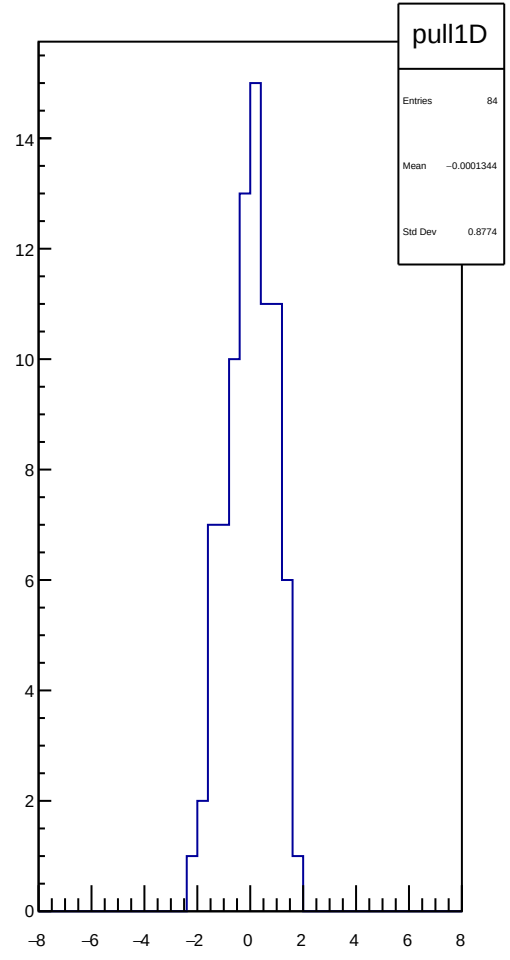

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9341 / 83
p0 0.005902 ± 4.632e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005

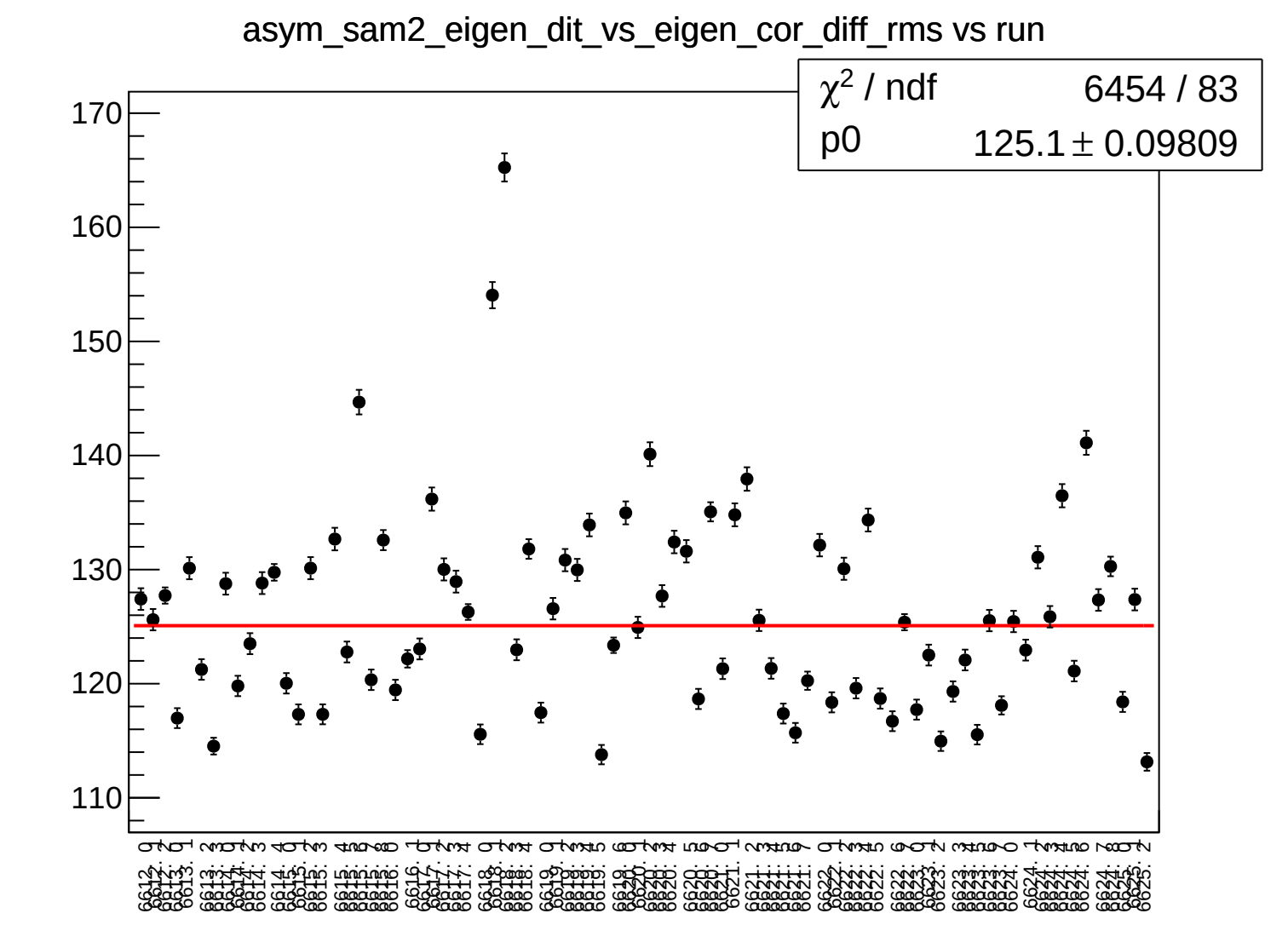

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.67 / 83
p0 0.1126 ± 0.1387
pull
Entries 84
Mean 1.604e+04
Std Dev 0

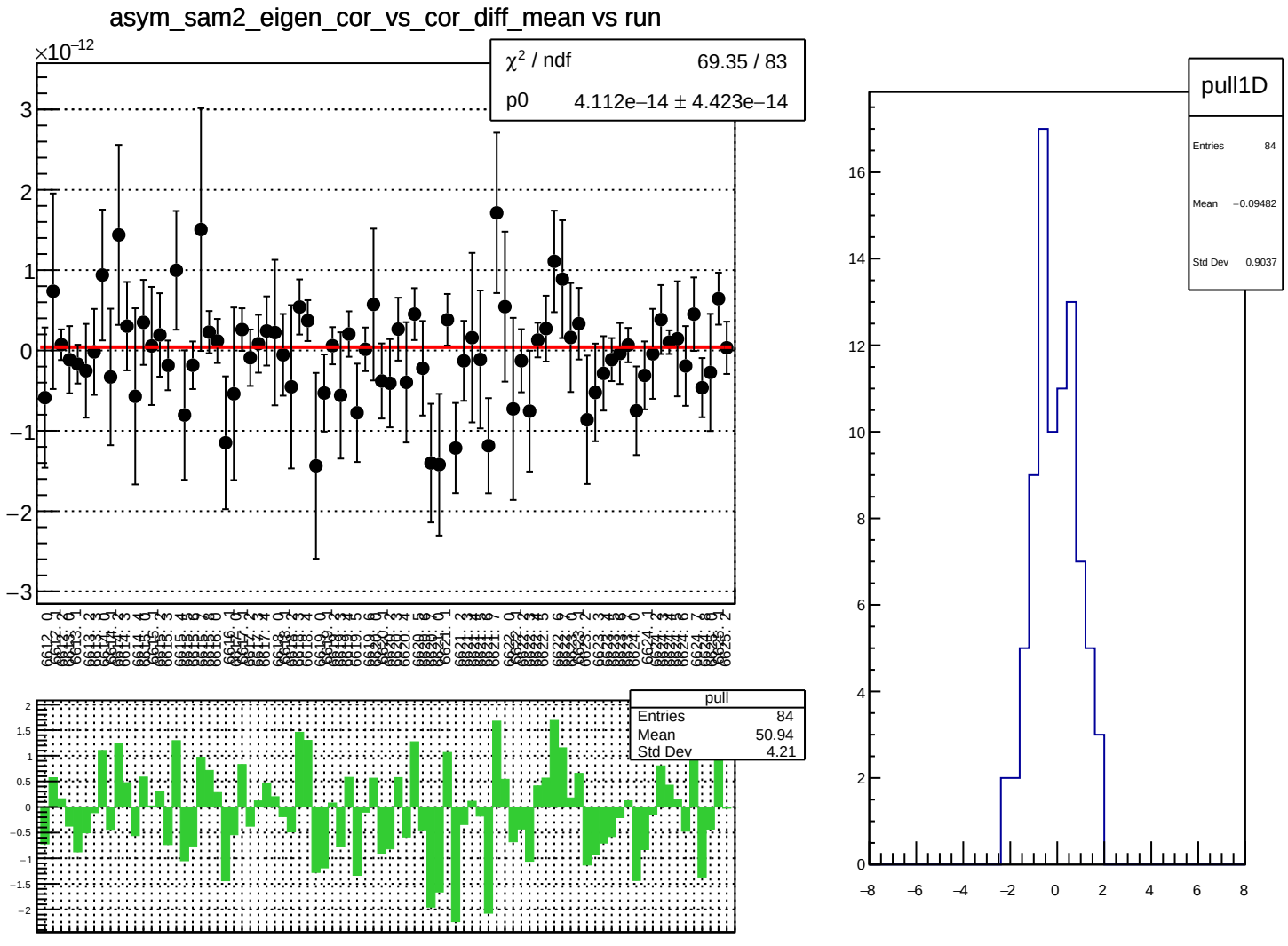

pull1D
Entries 84
Mean −0.0001344
Std Dev 0.8774

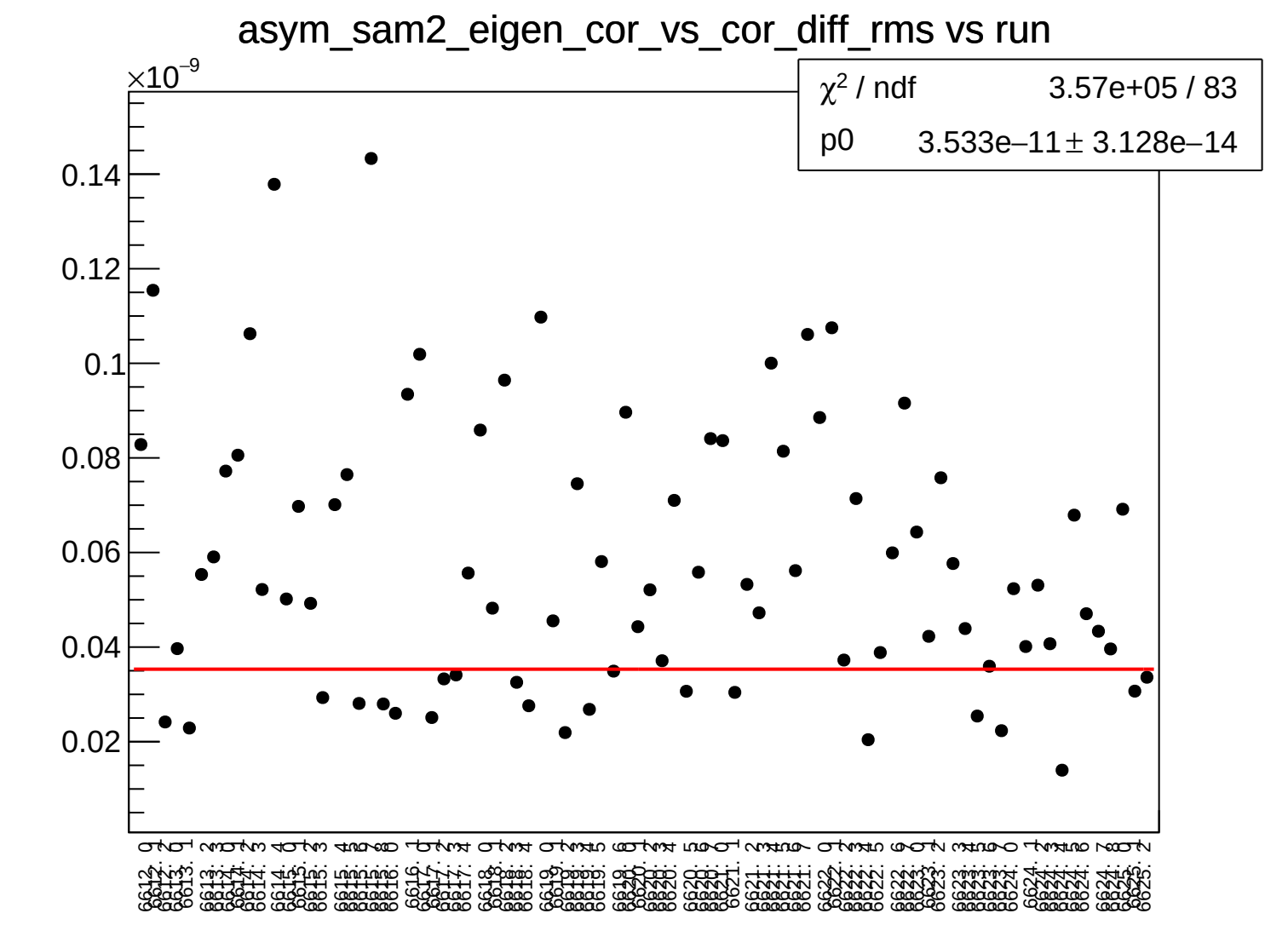

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6454 / 83
p0 125.1 ± 0.09809
170
160
150
140
130
120
110

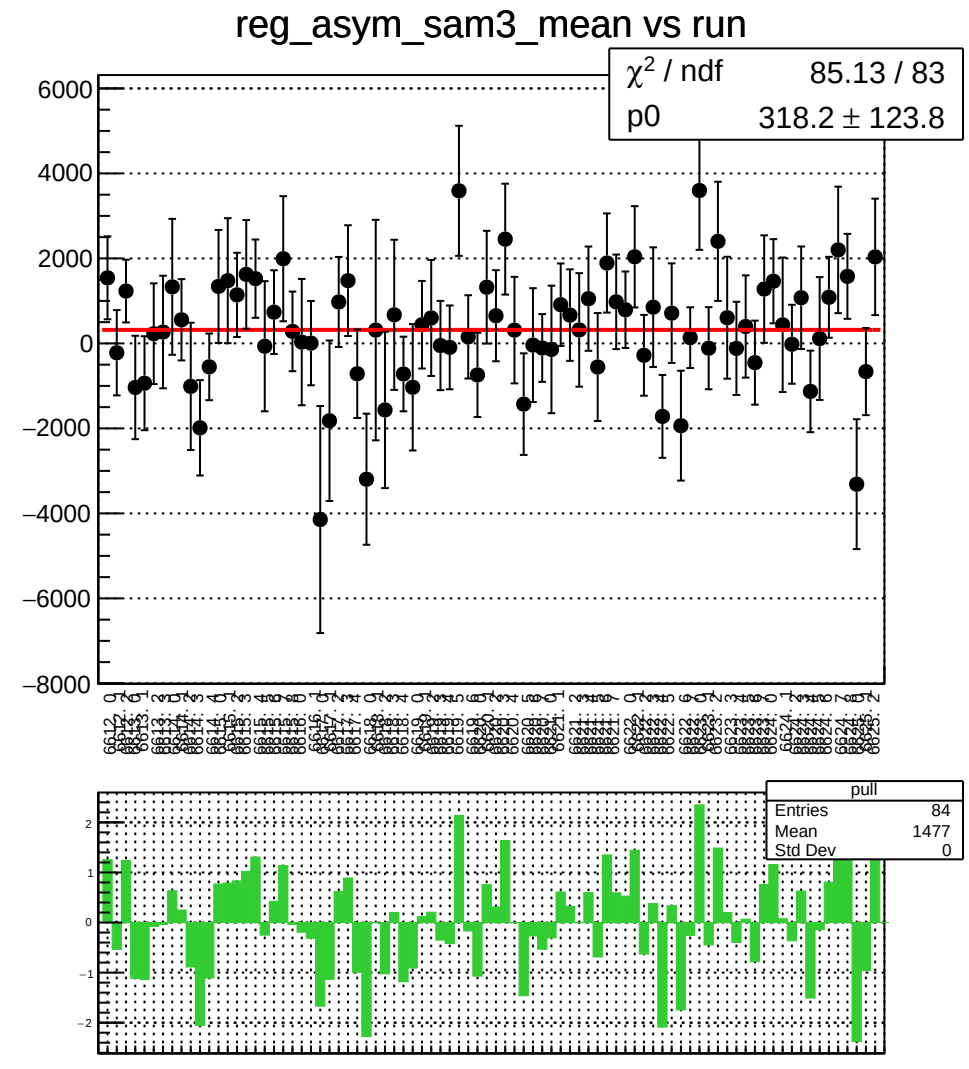

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.67 / 83
p0 0.1126 ± 0.1387
pull
Entries 84
Mean 1.604e+04
Std Dev 0

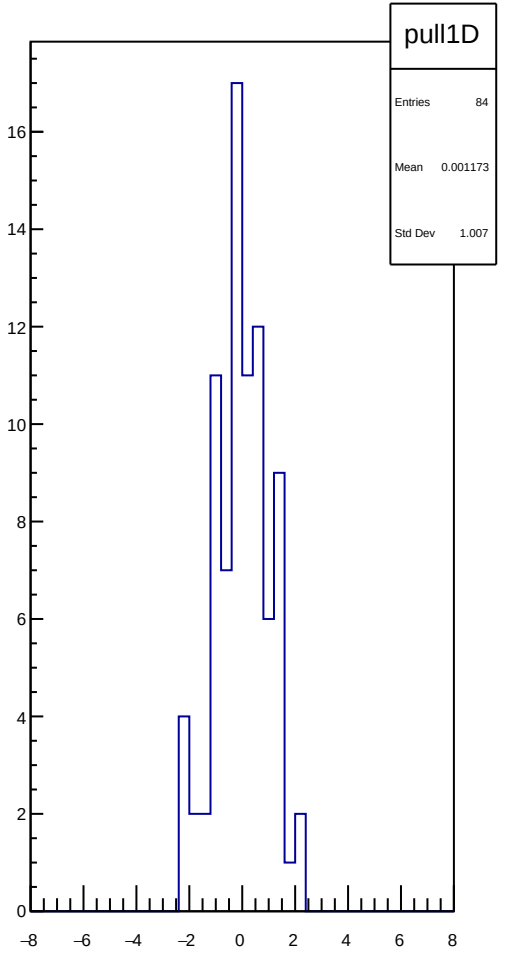

pull1D
Entries 84
Mean −0.0001344
Std Dev 0.8774

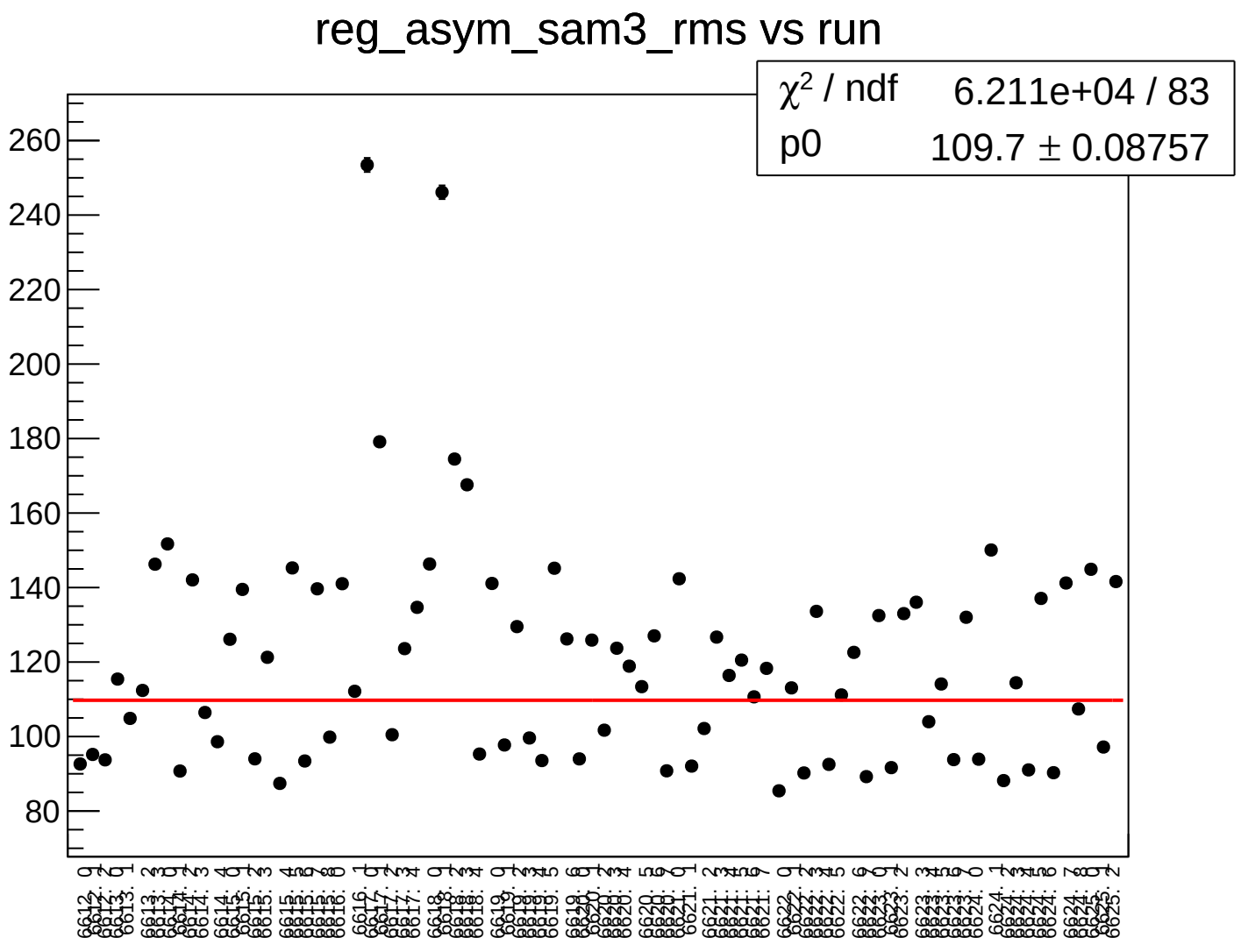

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6454 / 83
p0 125.1 ± 0.09809
170
160
150
140
130
120
110

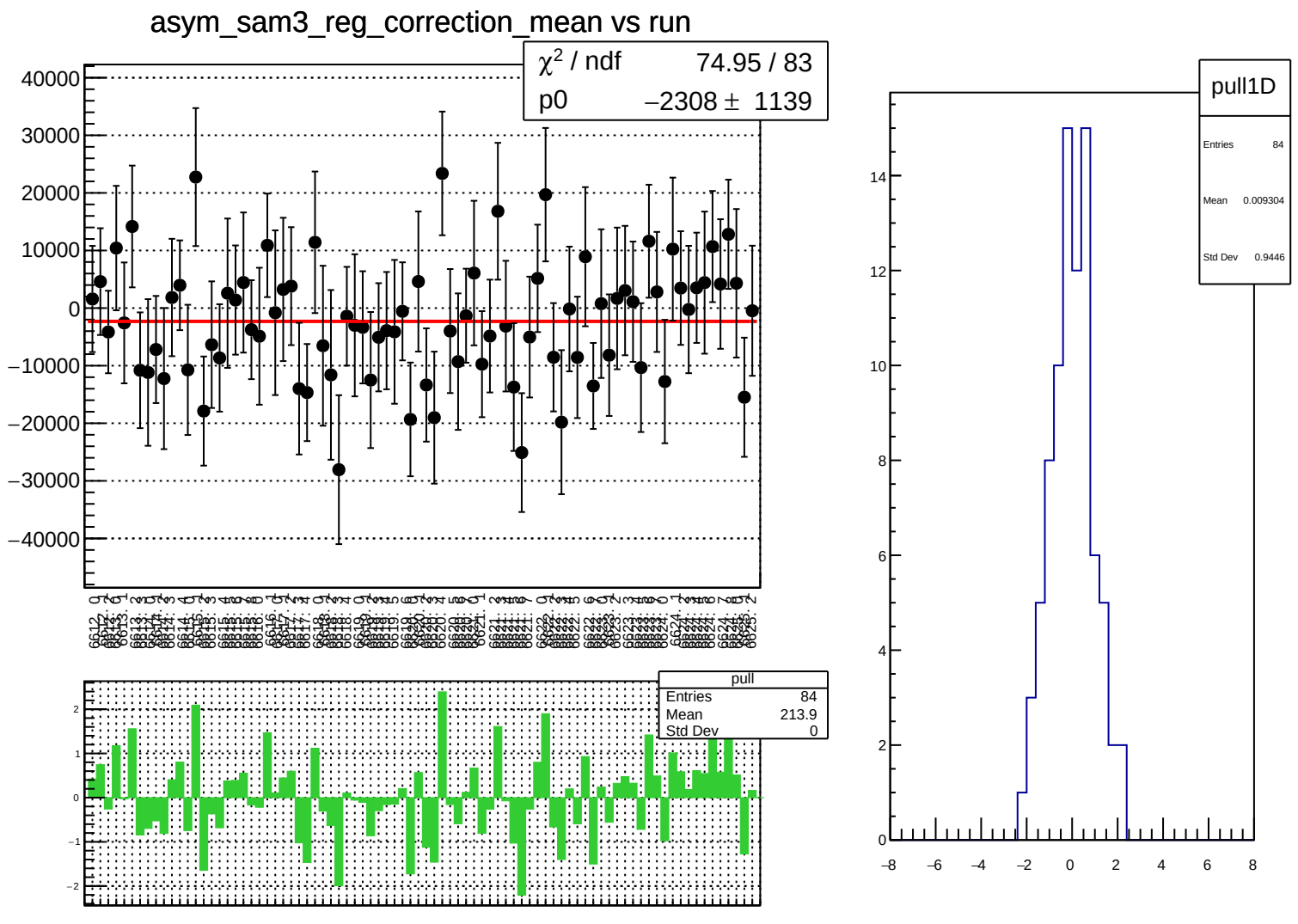

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.35 / 83
p0 4.112e−14 ± 4.423e−14
pull
Entries 84
Mean 50.94
Std Dev 4.21
pull1D
Entries 84
Mean −0.09482
Std Dev 0.9037

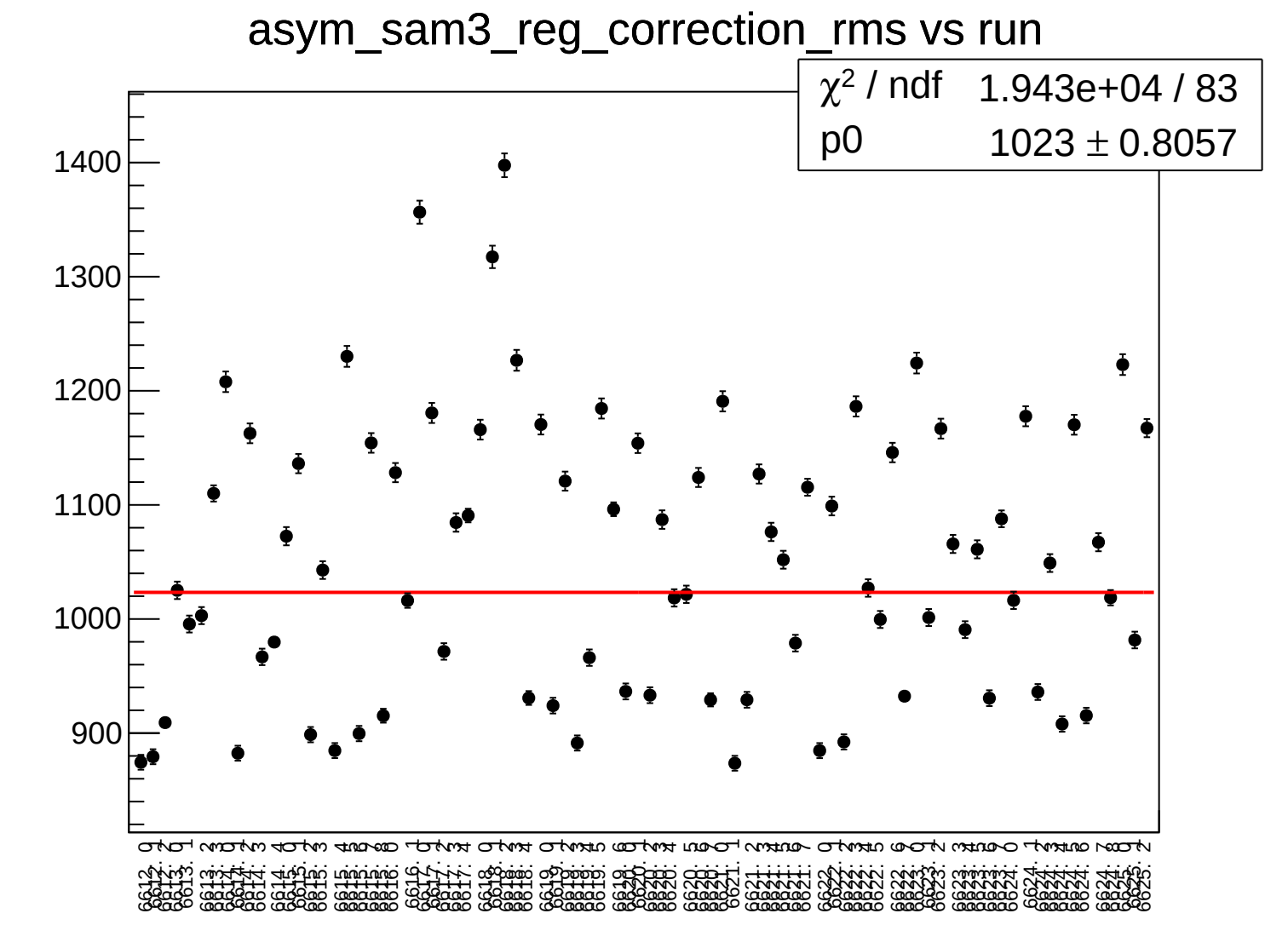

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.57e+05 / 83
p0 3.533e−11 ± 3.128e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

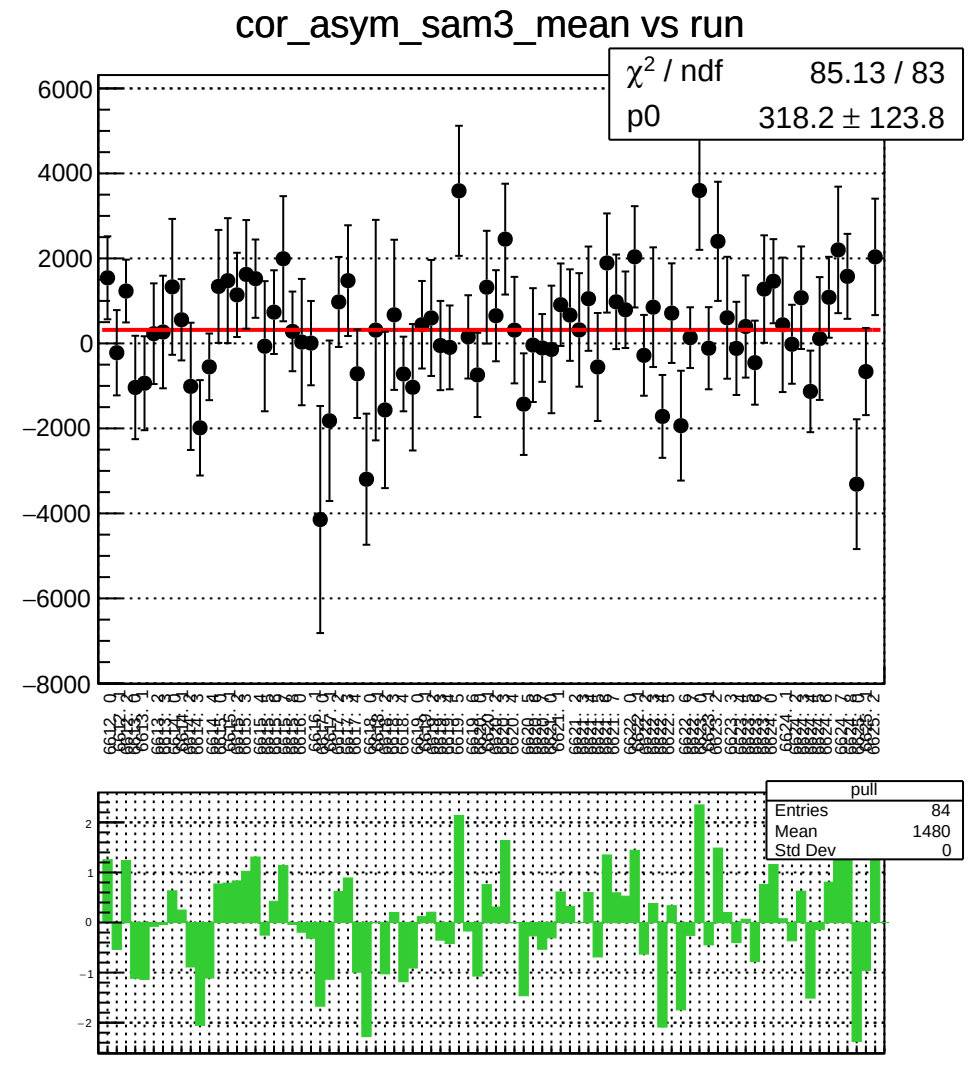

reg_asym_sam3_mean vs run
χ² / ndf 85.13 / 83
p0 318.2 ± 123.8
pull
Entries 84
Mean 1477
Std Dev 0

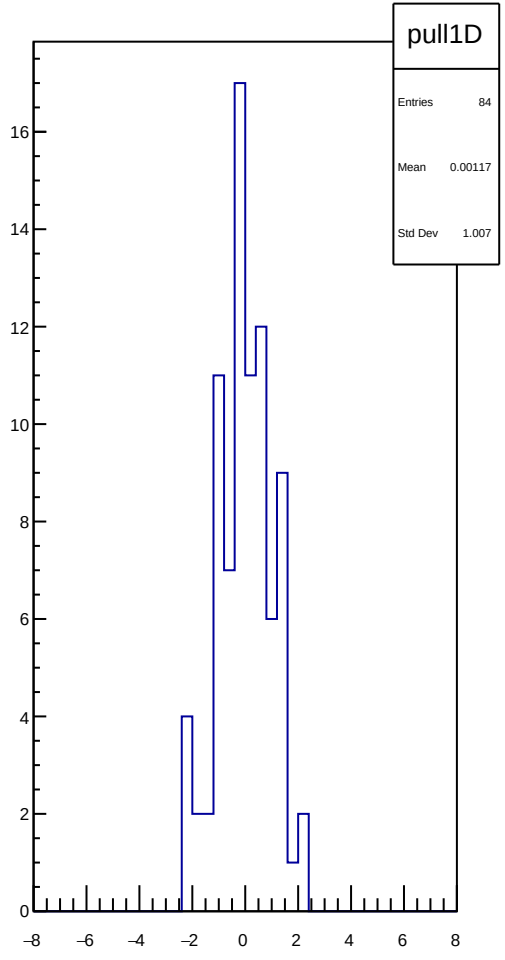

pull1D
Entries 84
Mean 0.001173
Std Dev 1.007

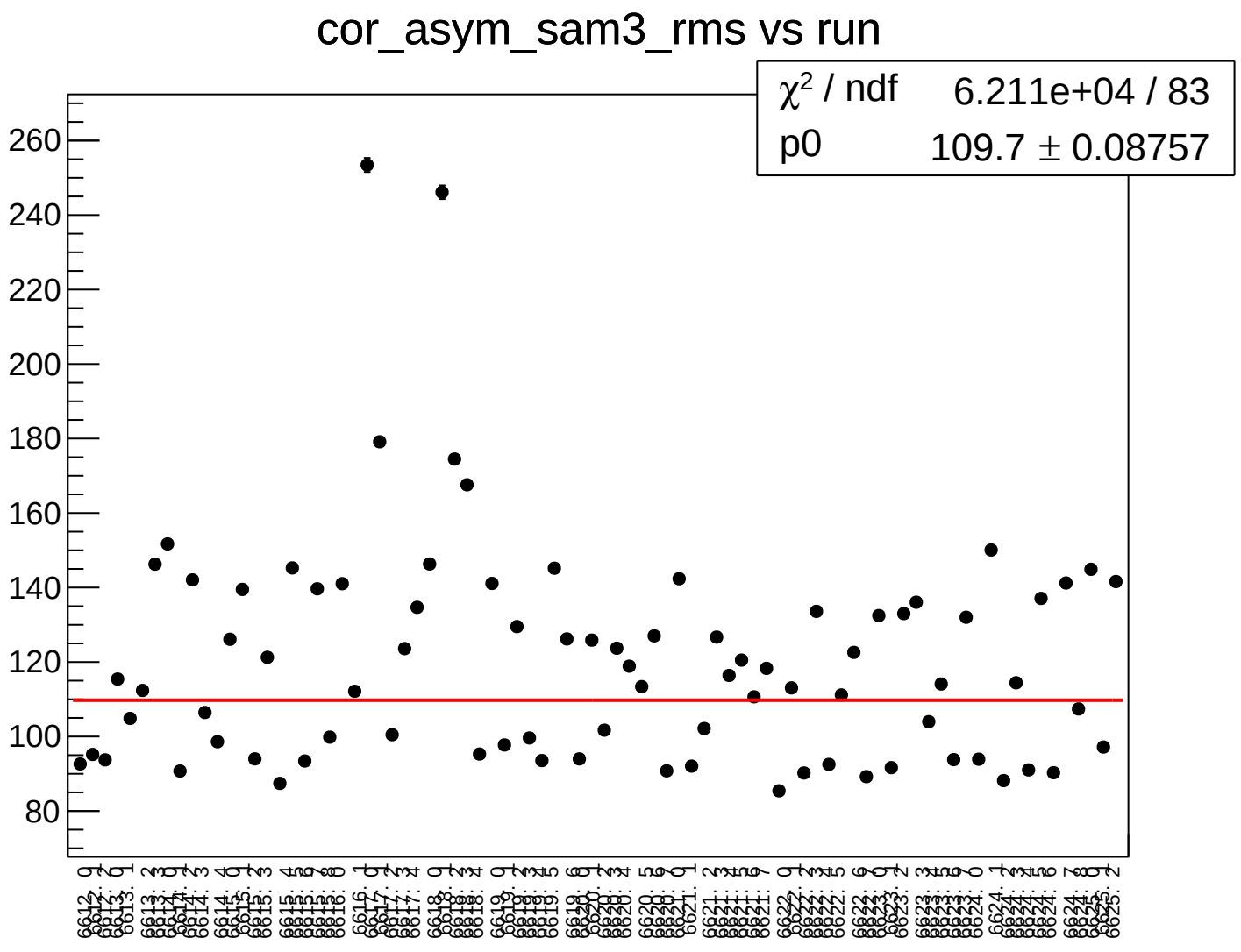

reg_asym_sam3_rms vs run
χ^2 / ndf 6.211e+04 / 83
p0 109.7 ± 0.08757
260
240
220
200
180
160
140
120
100
80

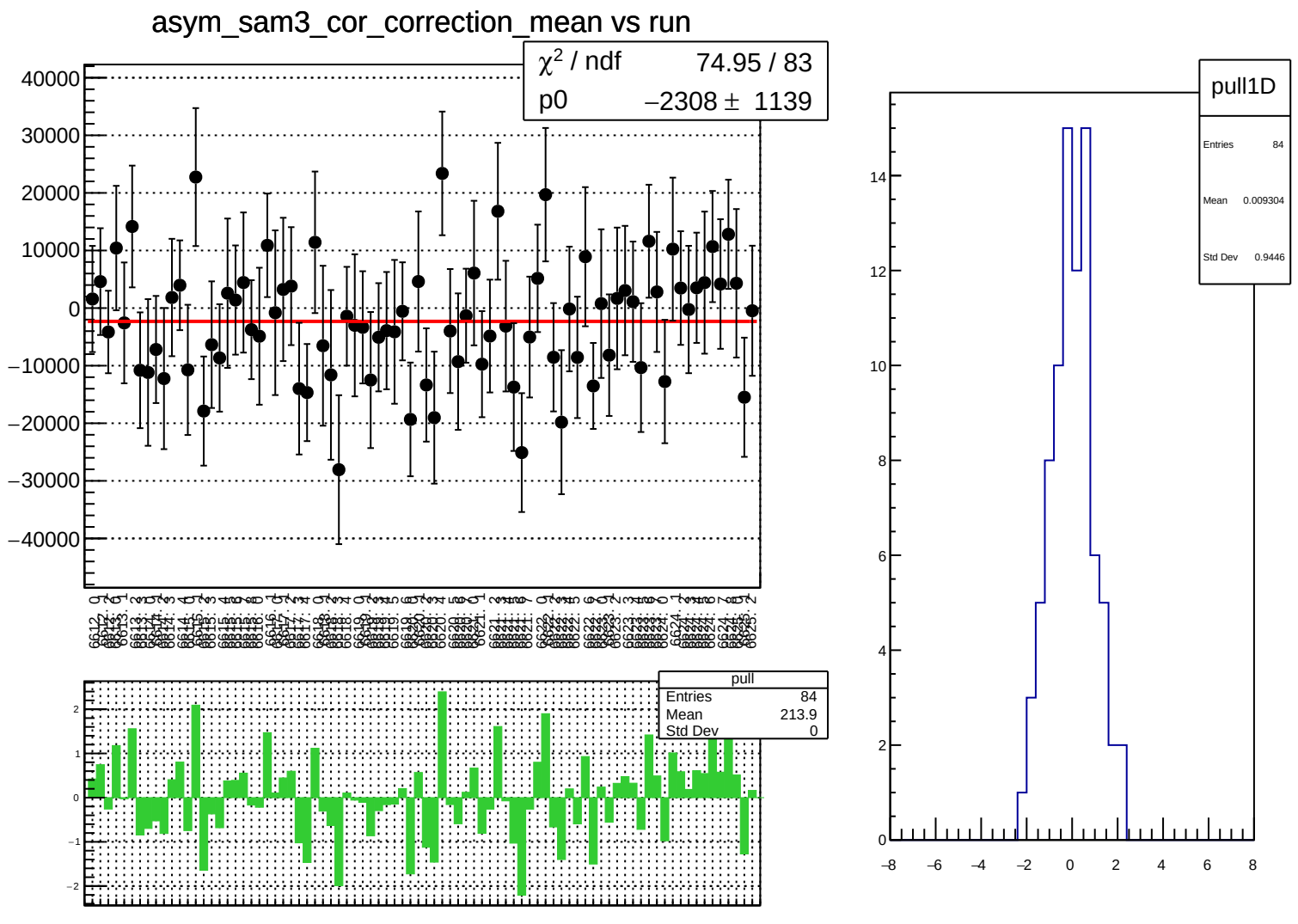

asym_sam3_reg_correction_mean vs run
χ² / ndf 74.95 / 83
p0 −2308 ± 1139
pull
Entries 84
Mean 213.9
Std Dev 0
pull1D
Entries 84
Mean 0.009304
Std Dev 0.9446

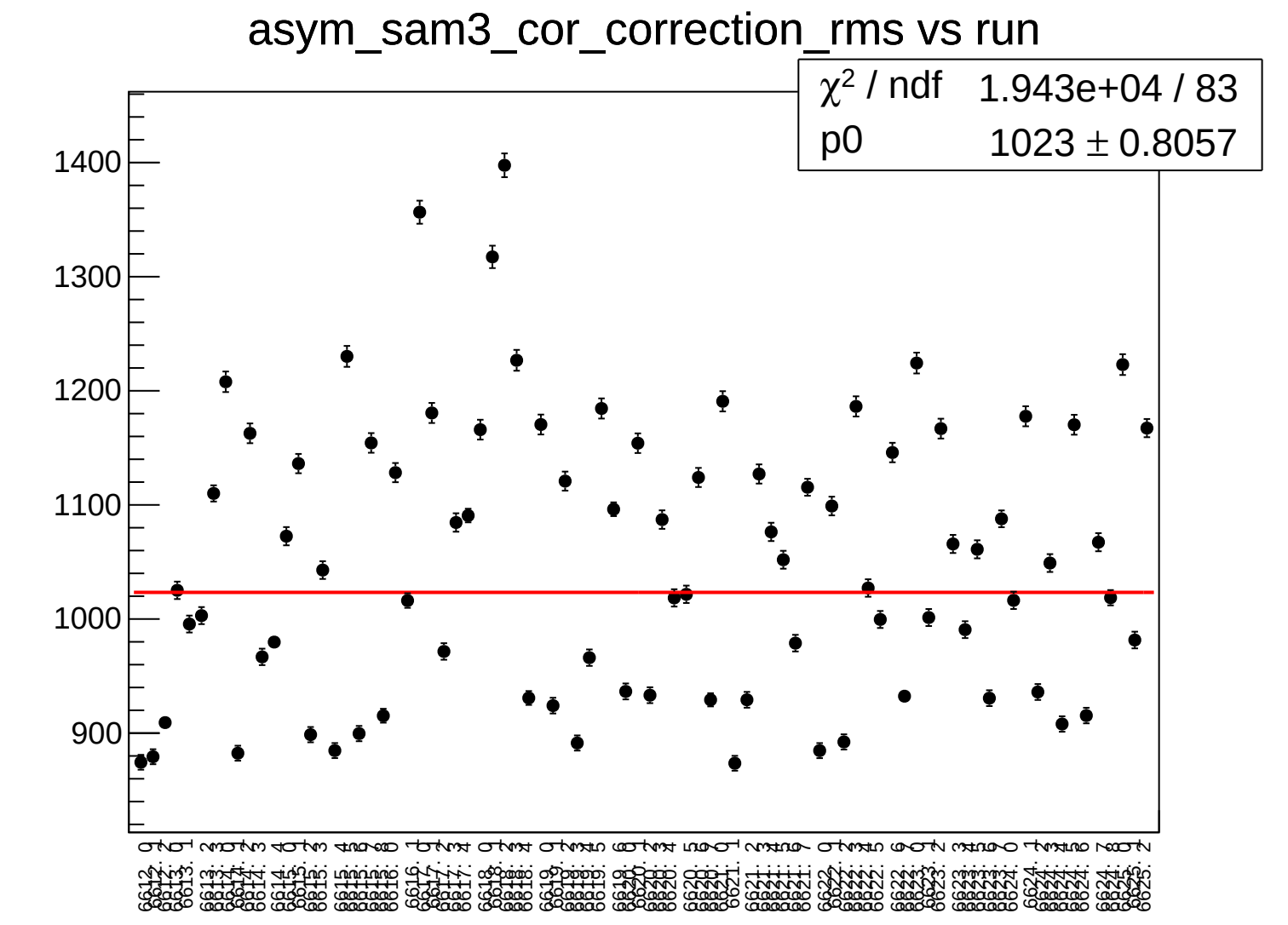

asym_sam3_reg_correction_rms vs run
χ² / ndf 1.943e+04 / 83
p0 1023 ± 0.8057
1400
1300
1200
1100
1000
900

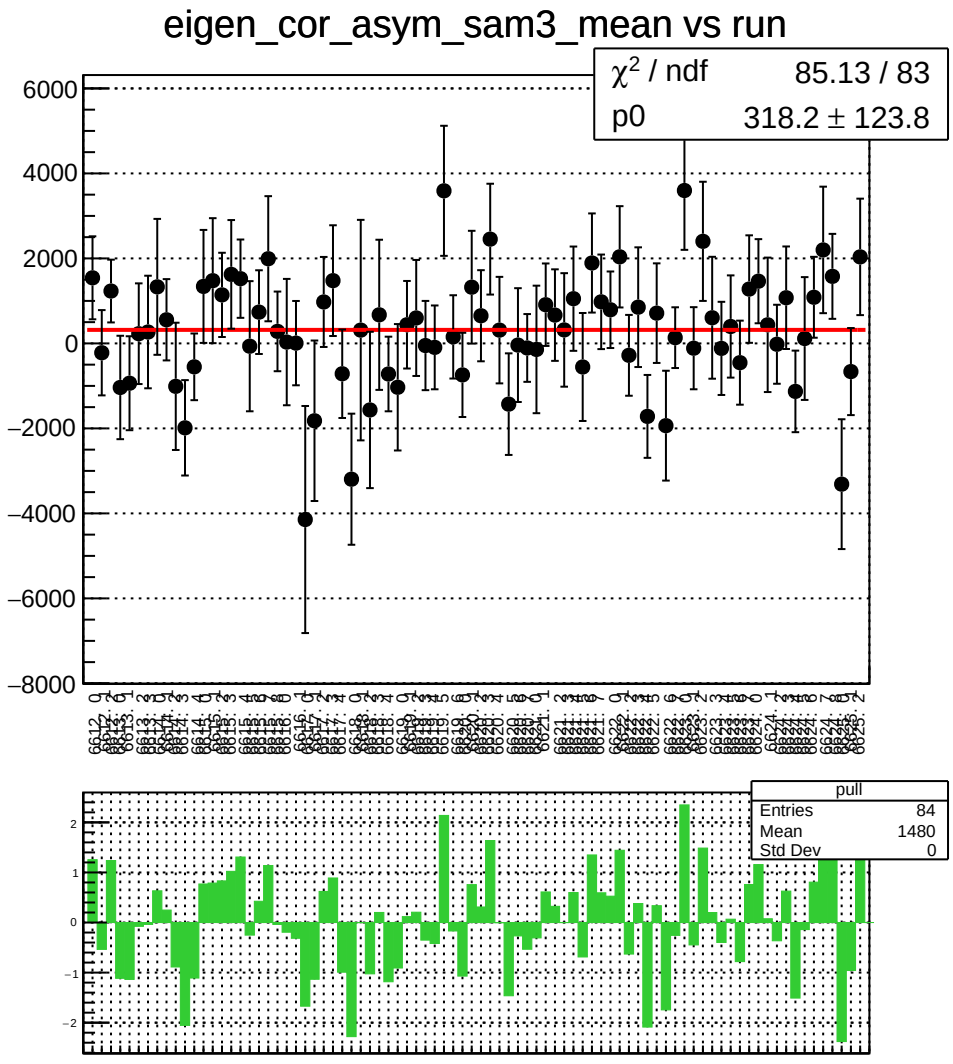

cor_asym_sam3_mean vs run
χ² / ndf 85.13 / 83
p0 318.2 ± 123.8
pull
Entries 84
Mean 1480
Std Dev 0

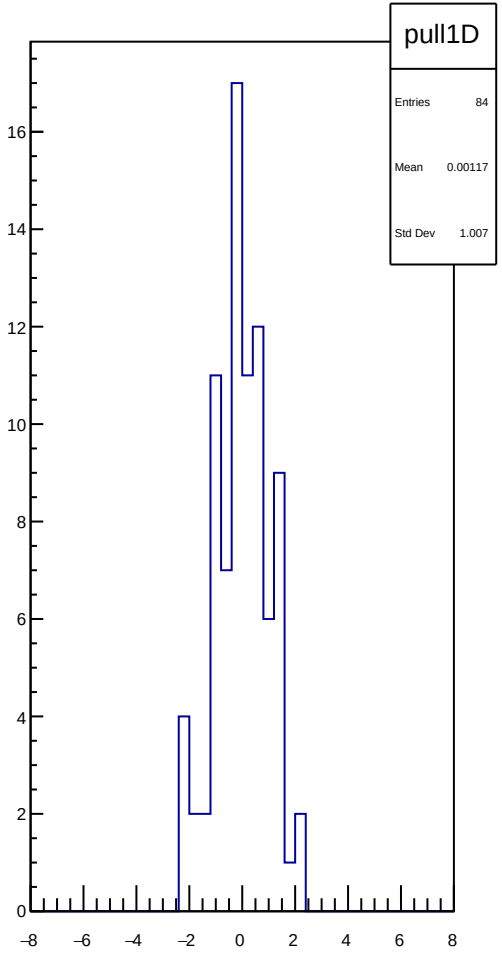

pull1D
Entries 84
Mean 0.00117
Std Dev 1.007

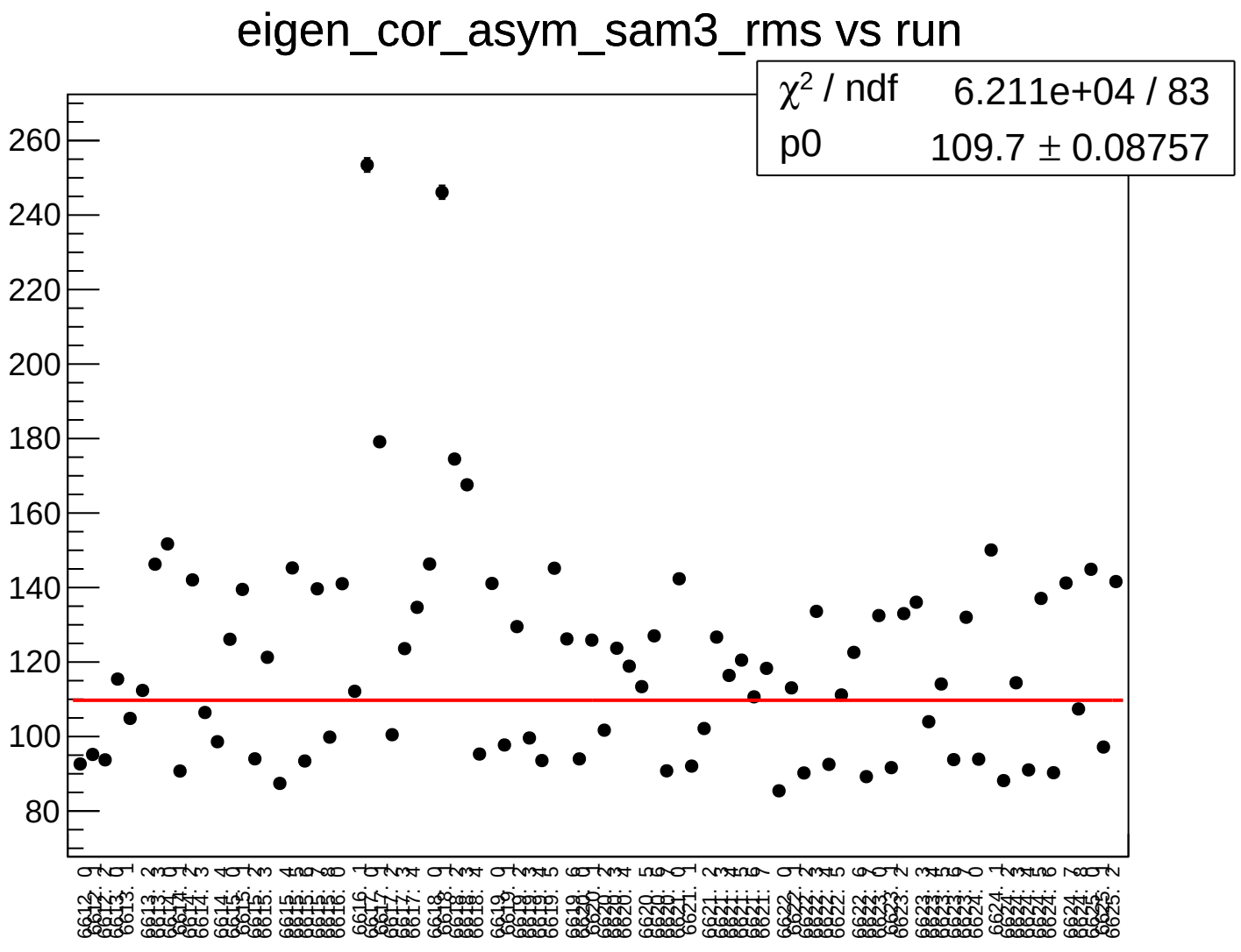

cor_asym_sam3_rms vs run
χ² / ndf 6.211e+04 / 83
p0 109.7 ± 0.08757
260
240
220
200
180
160
140
120
100
80

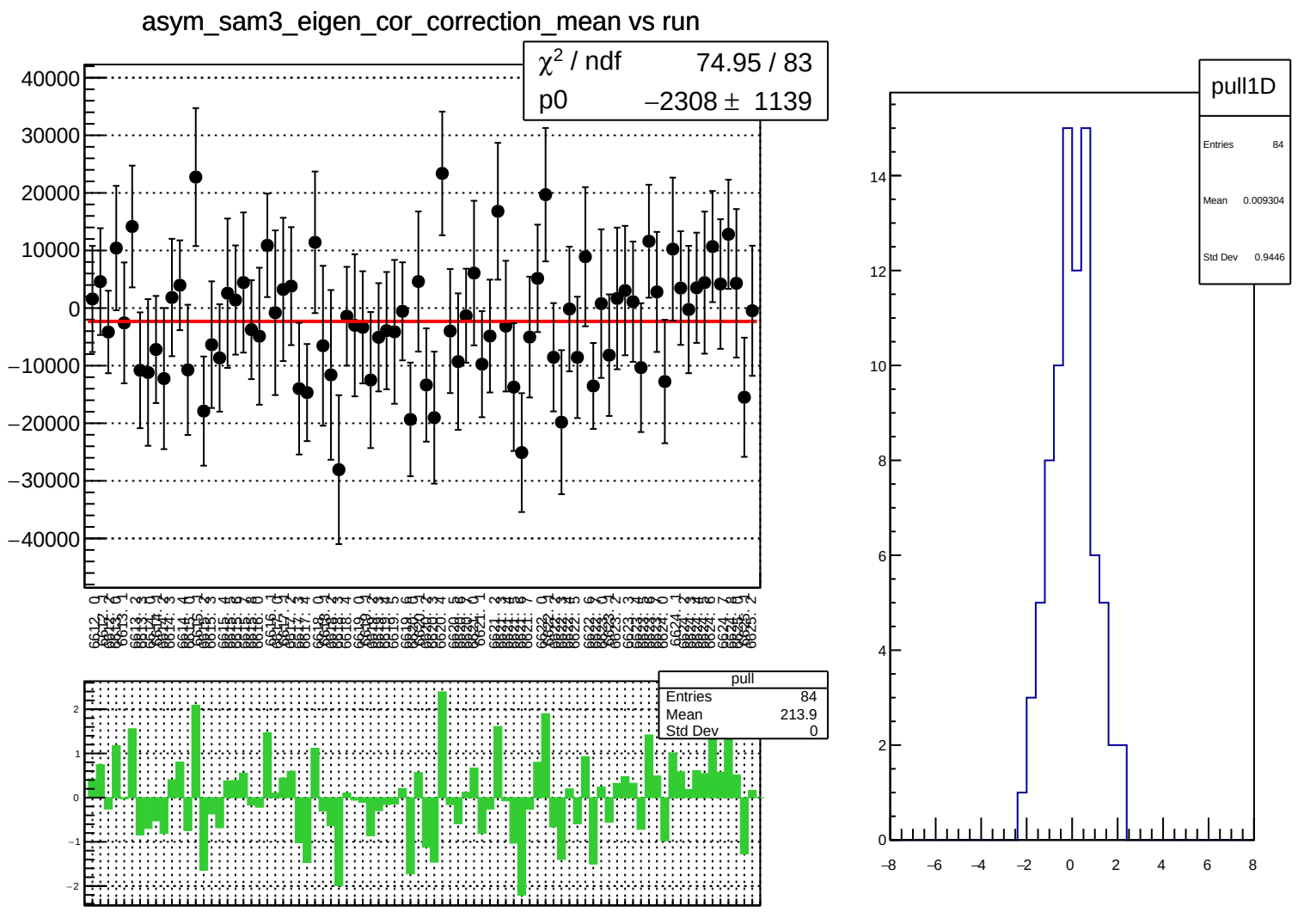

asym_sam3_cor_correction_mean vs run
χ² / ndf 74.95 / 83
p0 −2308 ± 1139
pull
Entries 84
Mean 213.9
Std Dev 0
pull1D
Entries 84
Mean 0.009304
Std Dev 0.9446

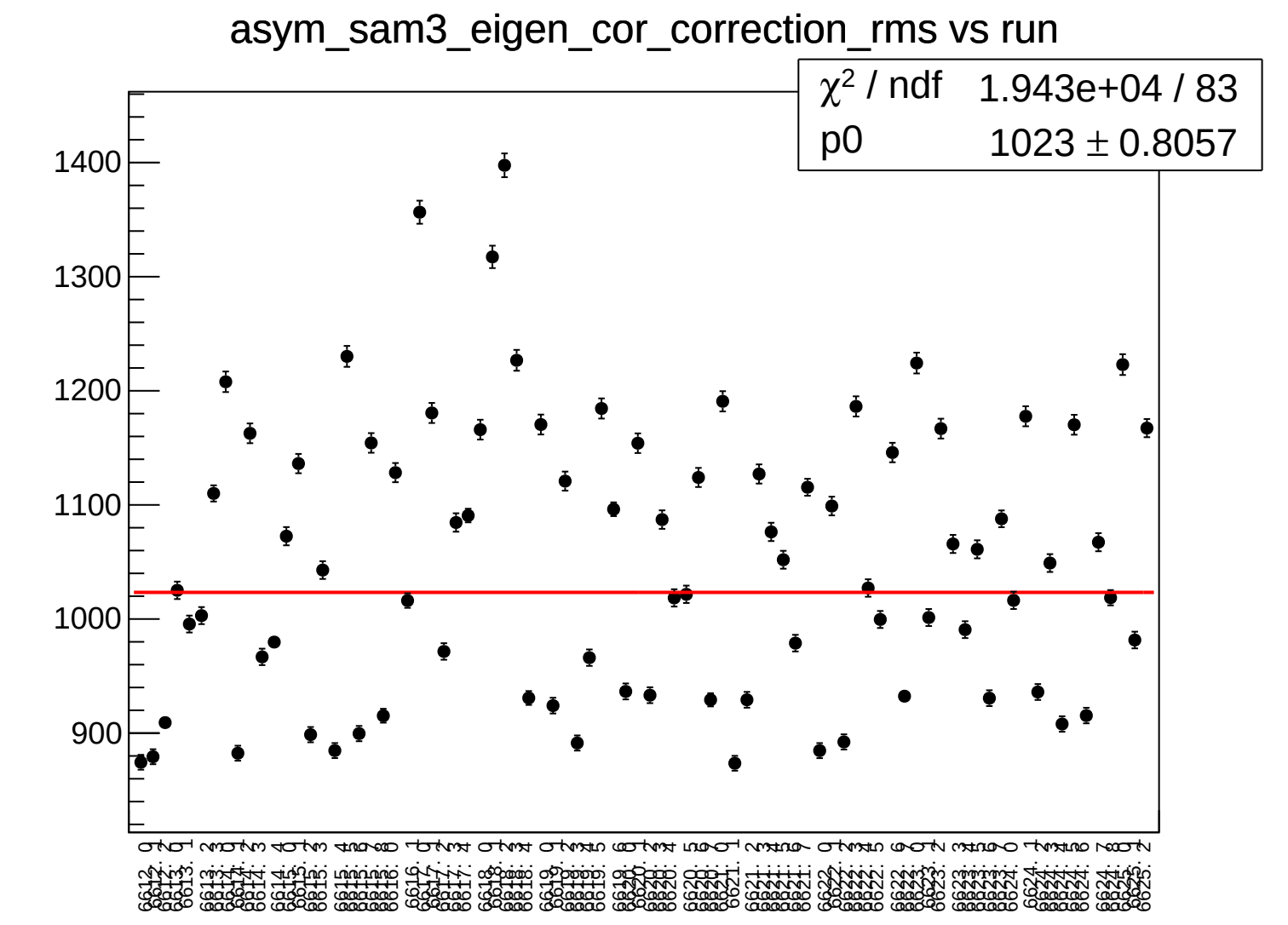

asym_sam3_cor_correction_rms vs run
χ² / ndf 1.943e+04 / 83
p0 1023 ± 0.8057
1400
1300
1200
1100
1000
900

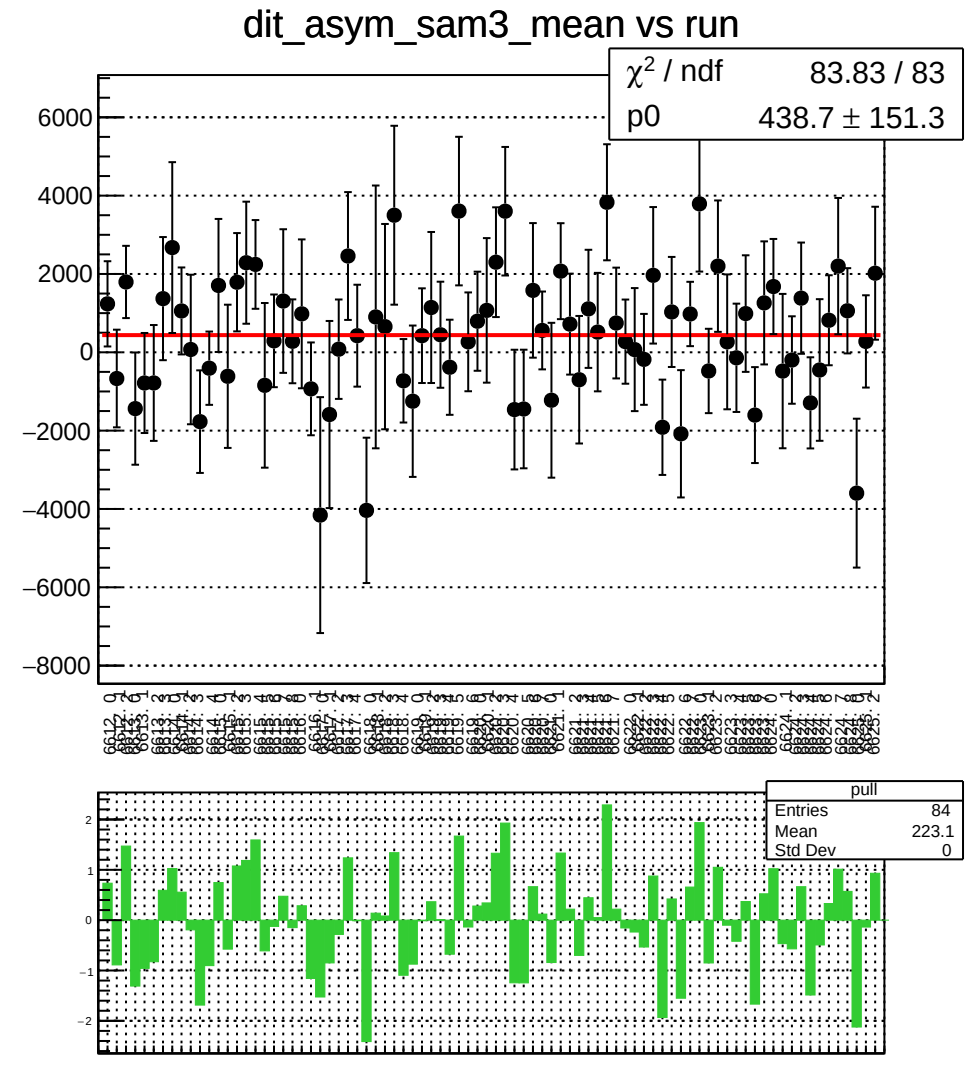

eigen_cor_asym_sam3_mean vs run
χ² / ndf 85.13 / 83
p0 318.2 ± 123.8
pull
Entries 84
Mean 1480
Std Dev 0

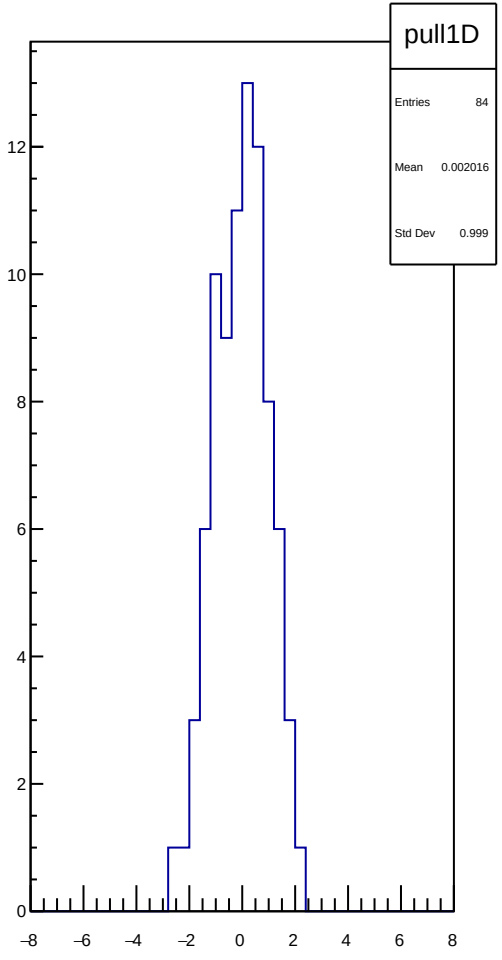

pull1D
Entries 84
Mean 0.00117
Std Dev 1.007

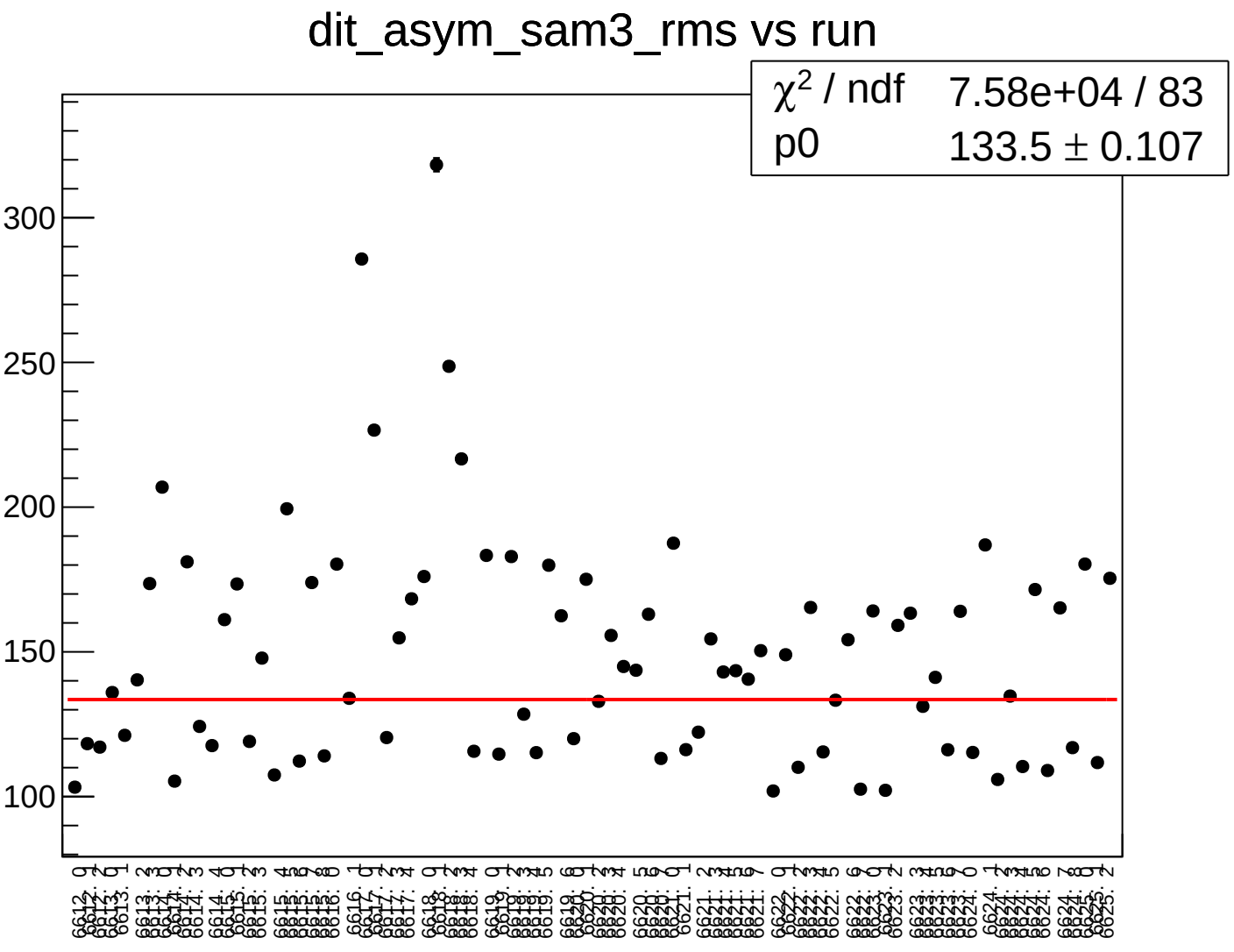

eigen_cor_asym_sam3_rms vs run
χ^2 / ndf 6.211e+04 / 83
p0 109.7 ± 0.08757
260
240
220
200
180
160
140
120
100
80

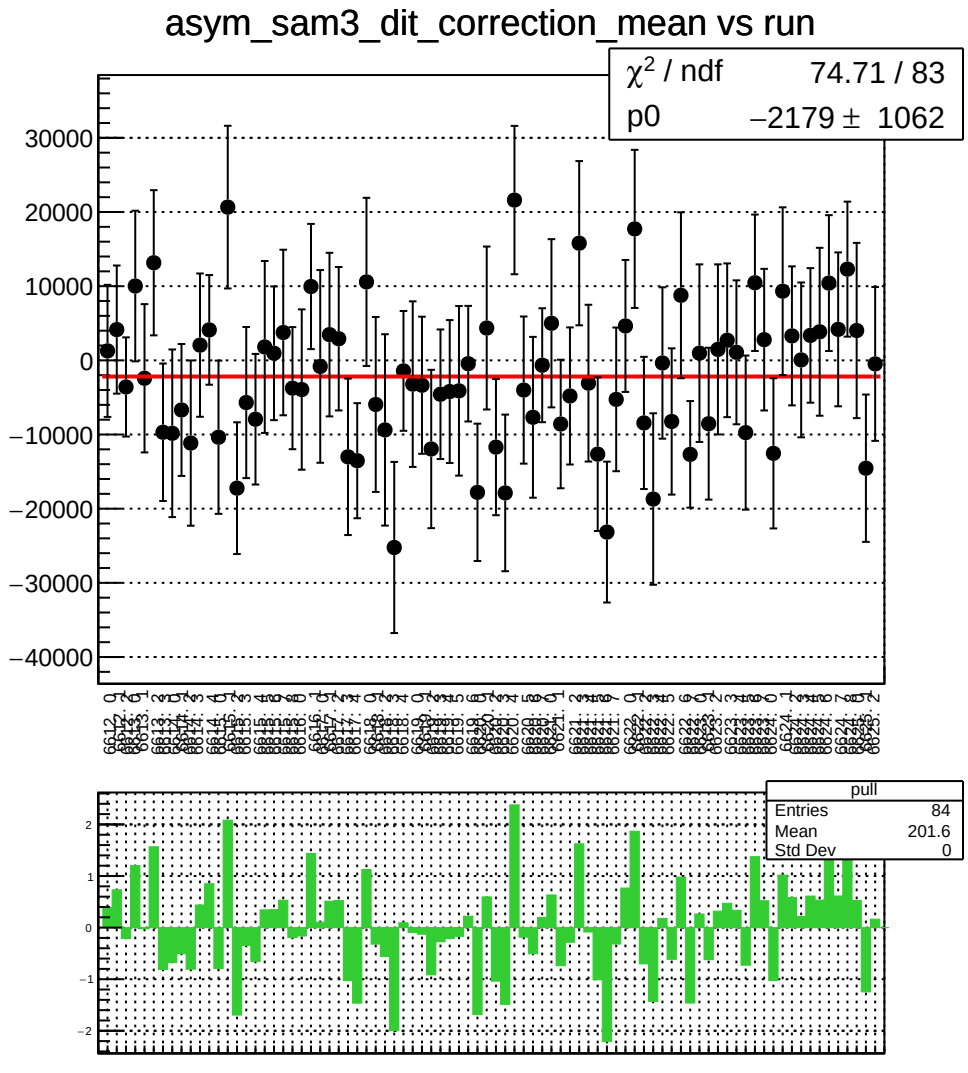

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 74.95 / 83
p0 −2308 ± 1139
pull
Entries 84
Mean 213.9
Std Dev 0
pull1D
Entries 84
Mean 0.009304
Std Dev 0.9446

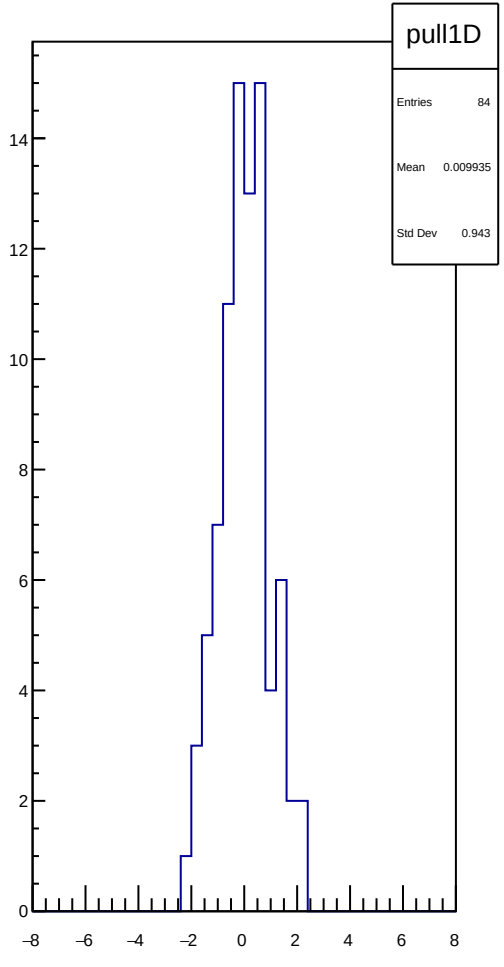

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 1.943e+04 / 83
p0 1023 ± 0.8057
1400
1300
1200
1100
1000
900

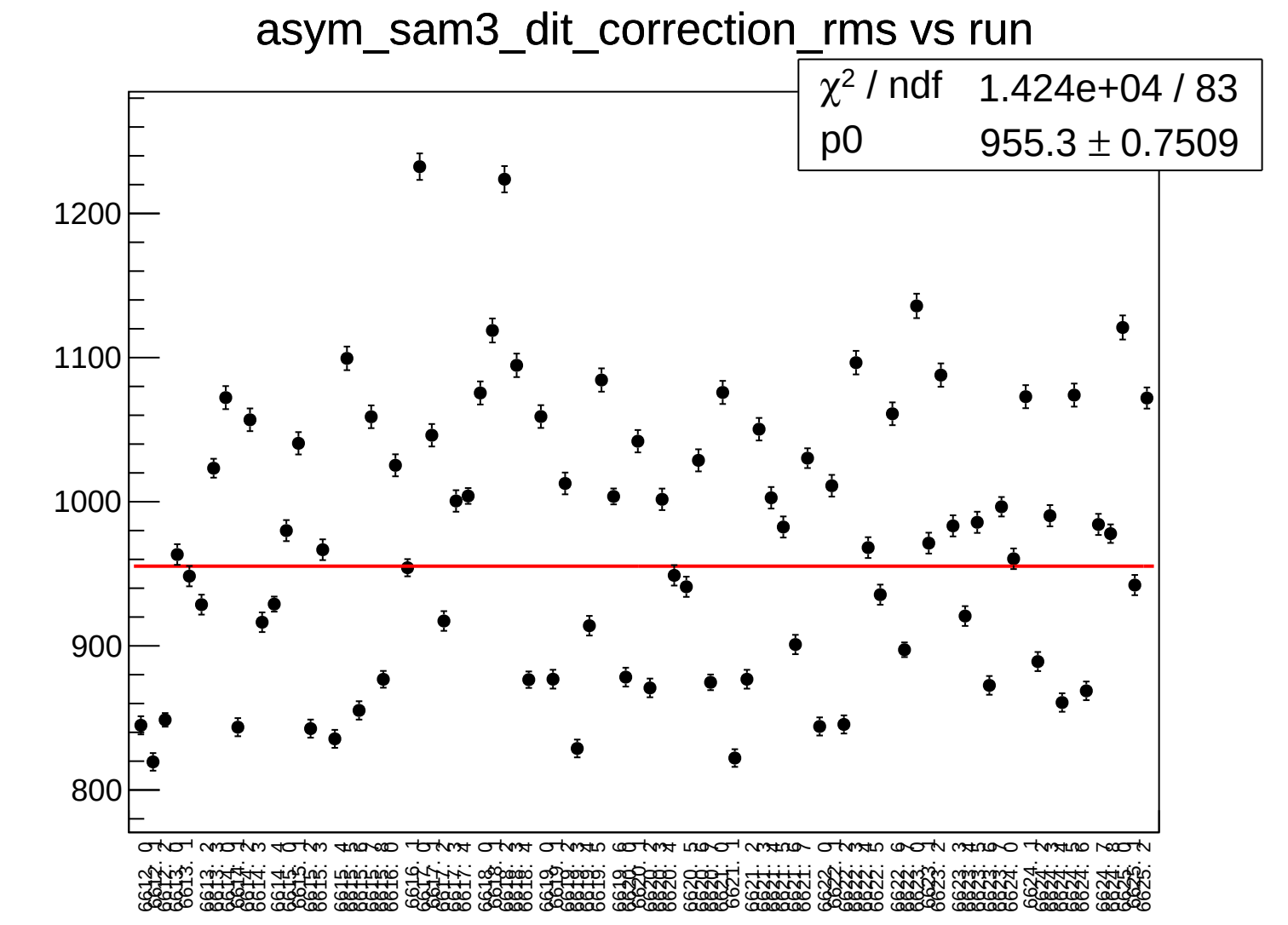

dit_asym_sam3_mean vs run
χ² / ndf 83.83 / 83
p0 438.7 ± 151.3
pull
Entries 84
Mean 223.1
Std Dev 0

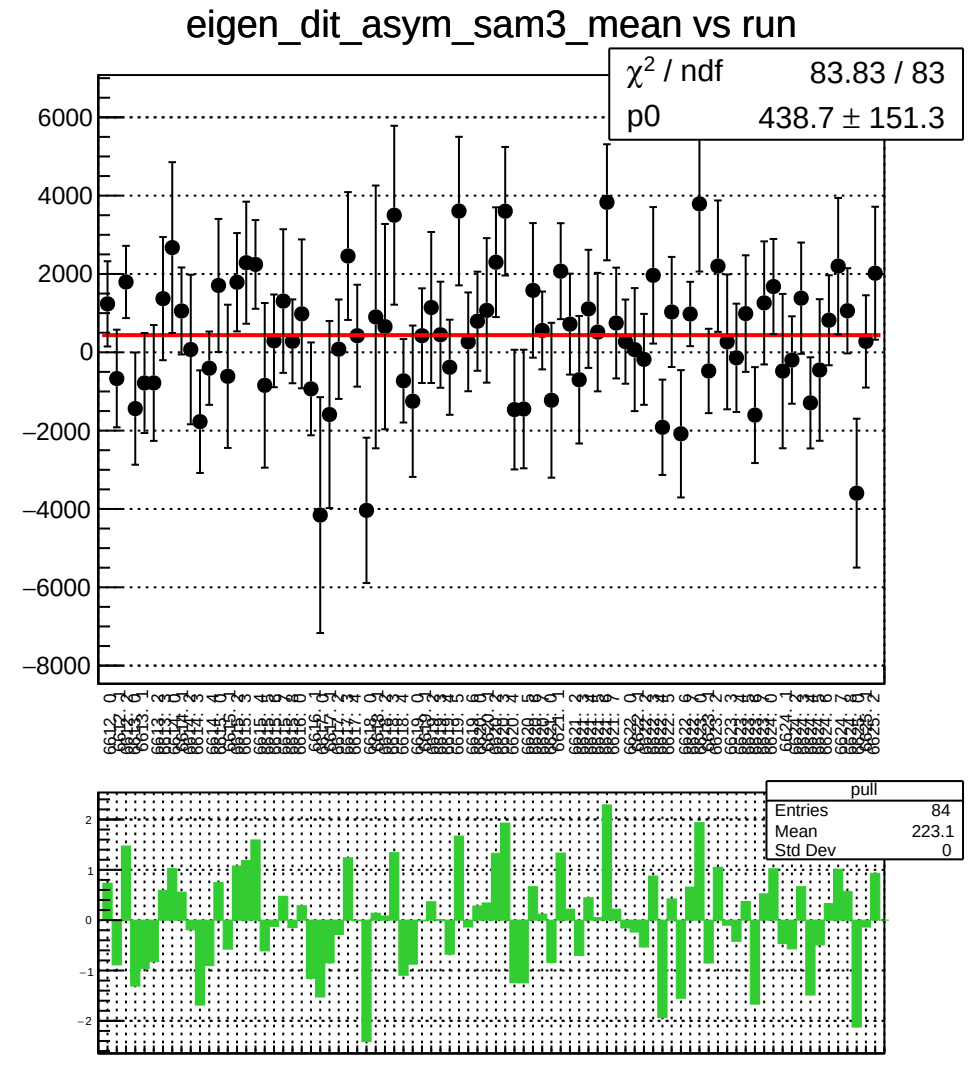

pull1D
Entries 84
Mean 0.002016
Std Dev 0.999

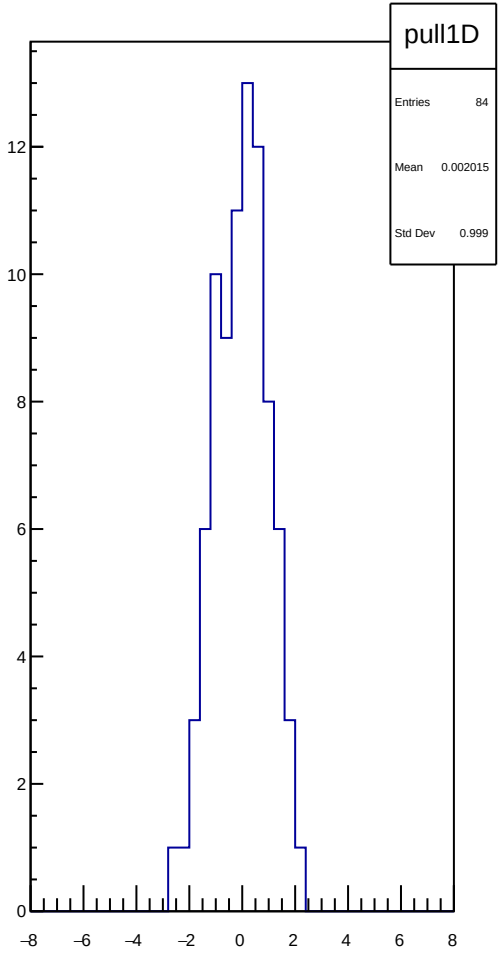

dit_asym_sam3_rms vs run
χ² / ndf 7.58e+04 / 83
p0 133.5 ± 0.107
300
250
200
150
100

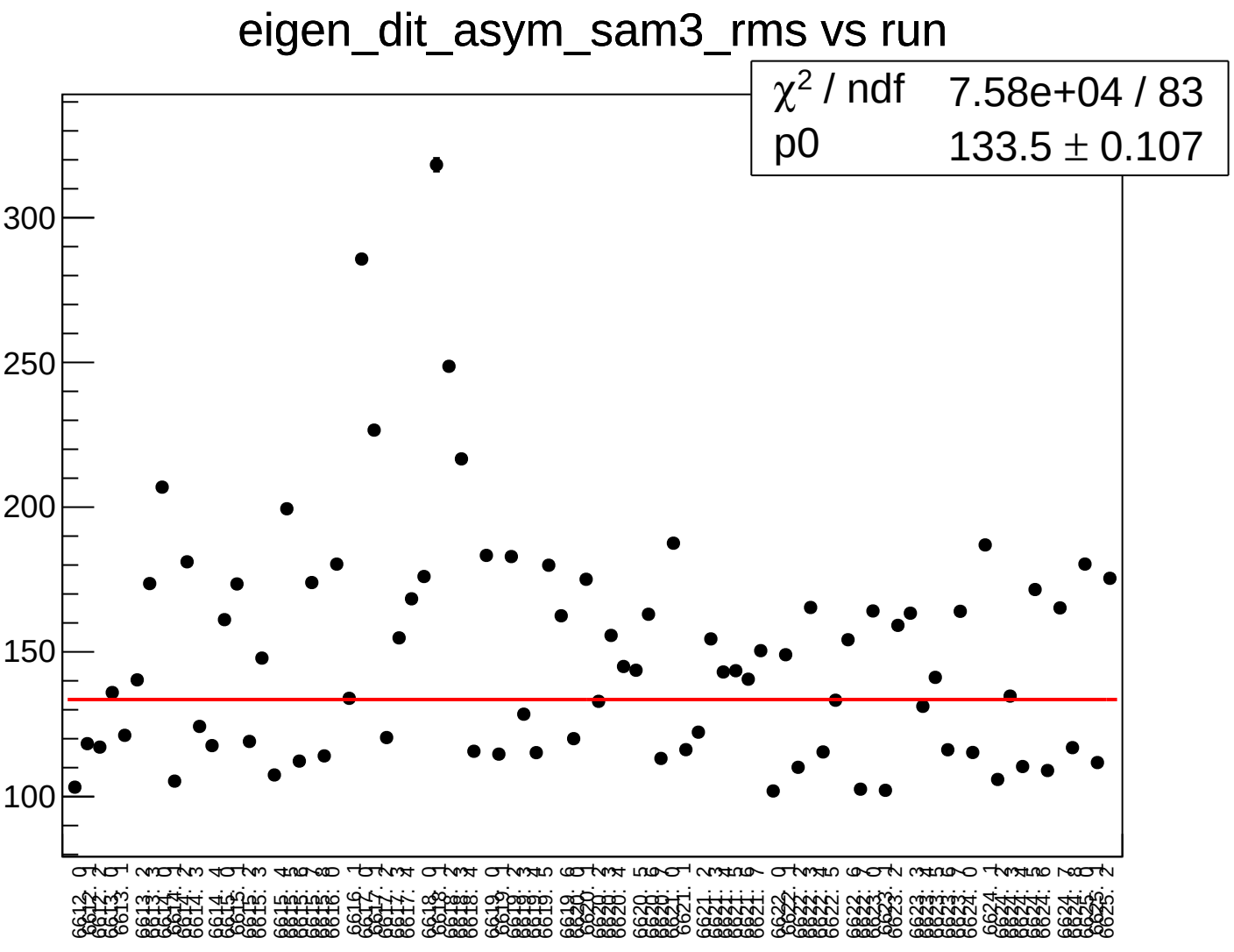

asym_sam3_dit_correction_mean vs run
χ² / ndf 74.71 / 83
p0 −2179 ± 1062
pull
Entries 84
Mean 201.6
Std Dev 0

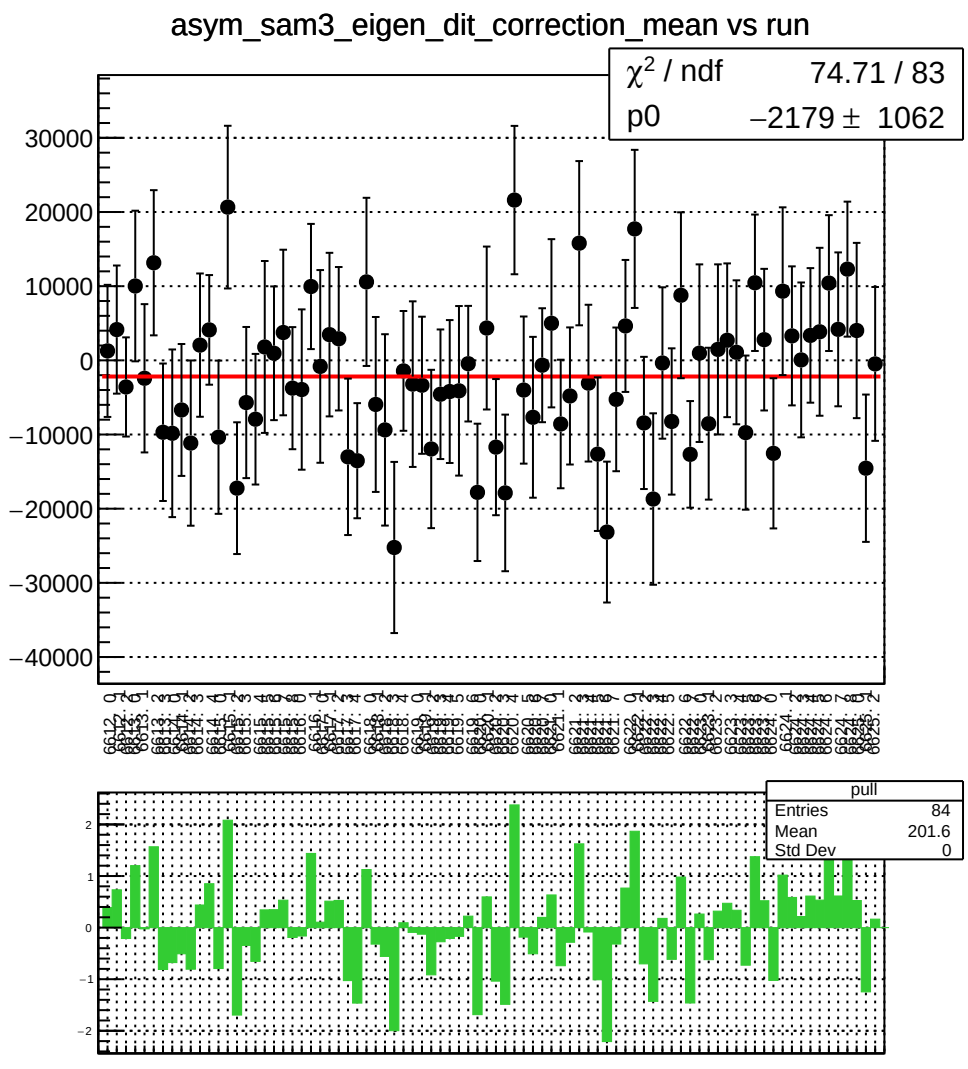

pull1D
Entries 84
Mean 0.009935
Std Dev 0.943

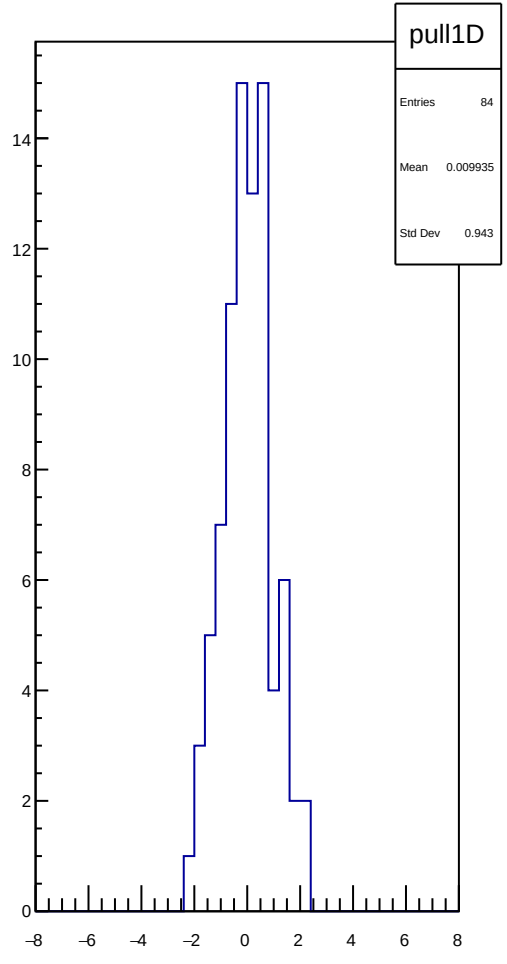

asym_sam3_dit_correction_rms vs run
χ² / ndf 1.424e+04 / 83
p0 955.3 ± 0.7509
1200
1100
1000
900
800

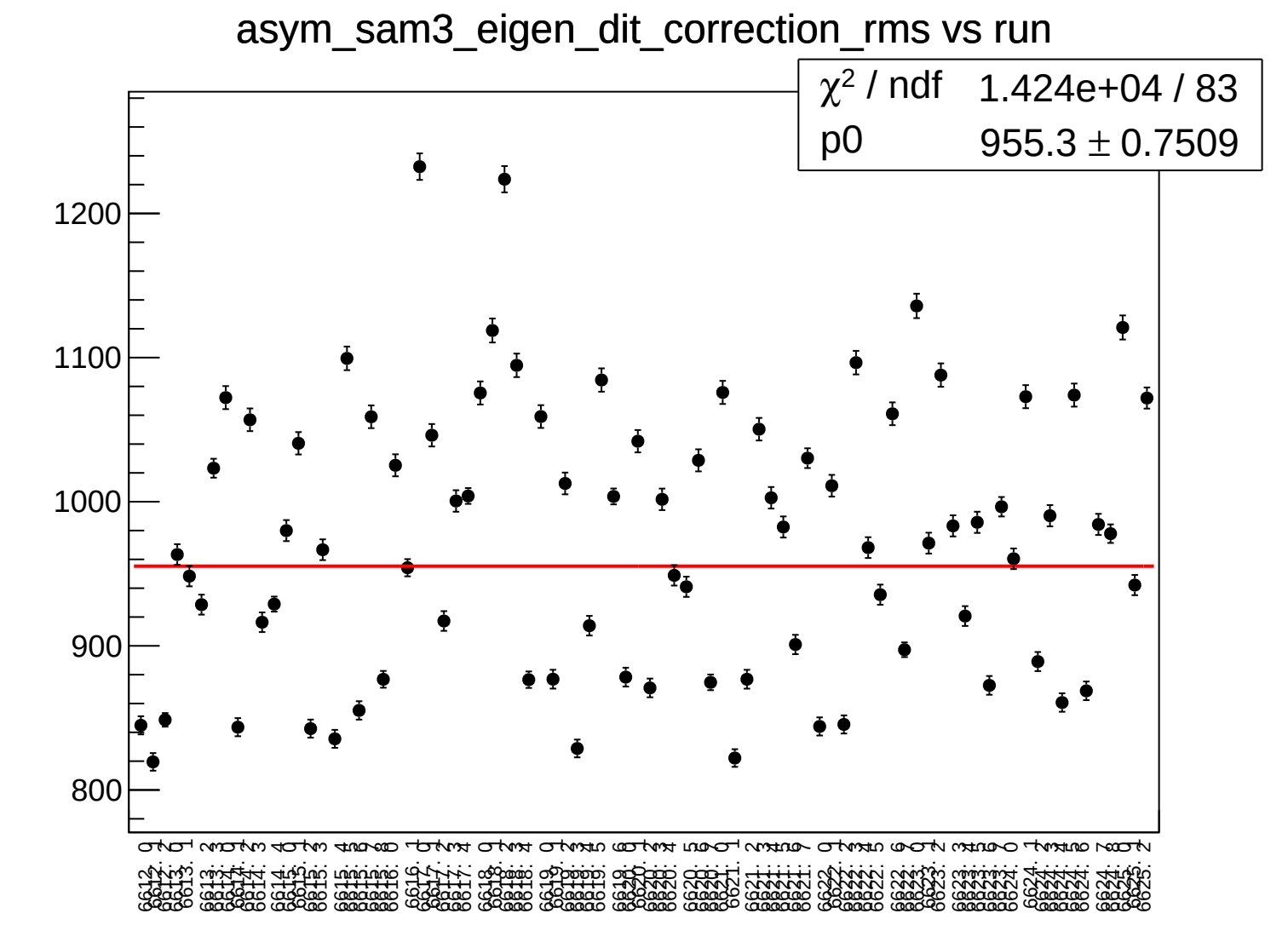

eigen_dit_asym_sam3_mean vs run
χ² / ndf 83.83 / 83
p0 438.7 ± 151.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 84
Mean 223.1
Std Dev 0
2
1
0
−1
−2

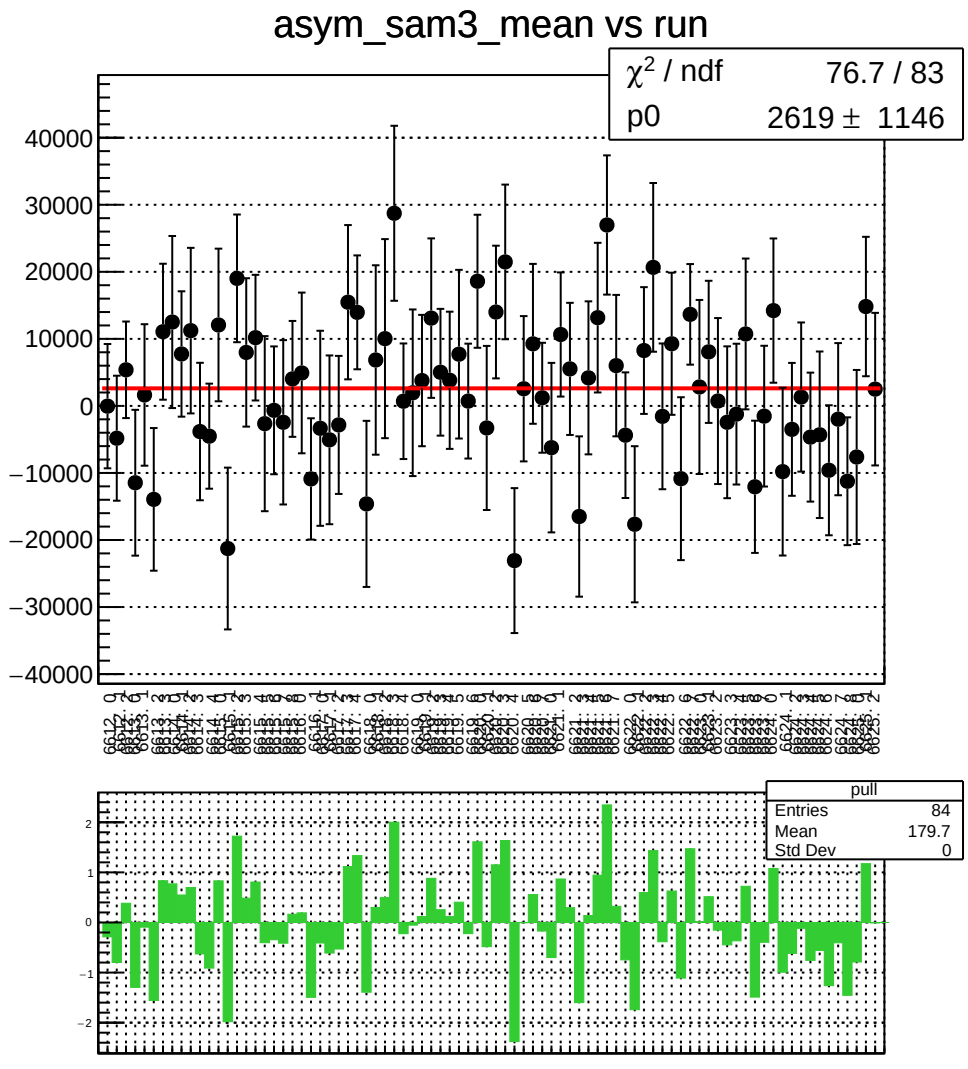

pull1D
Entries 84
Mean 0.002015
Std Dev 0.999
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

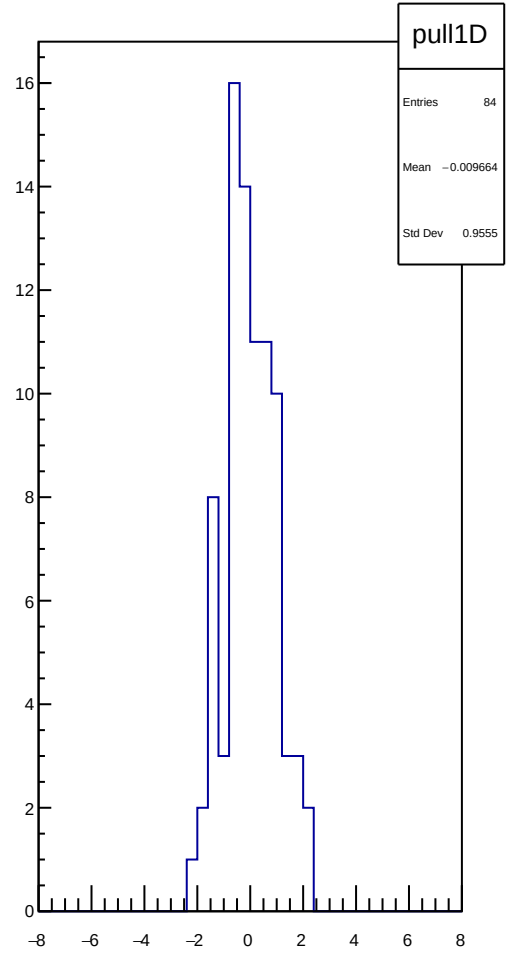

eigen_dit_asym_sam3_rms vs run
χ^2 / ndf 7.58e+04 / 83
p0 133.5 ± 0.107
300
250
200
150
100

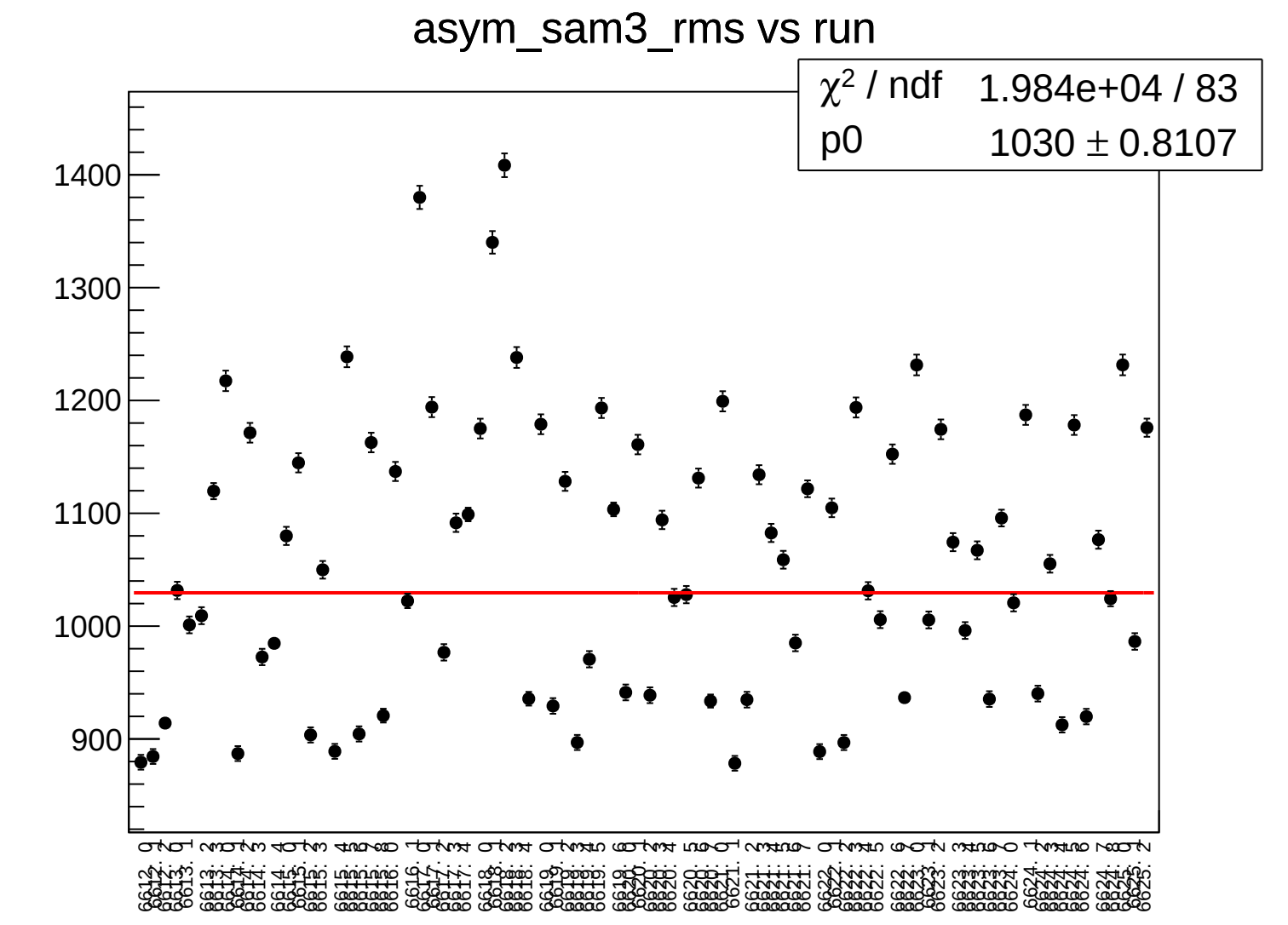

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 74.71 / 83
p0 −2179 ± 1062
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 201.6
Std Dev 0
2
1
0
−1
−2

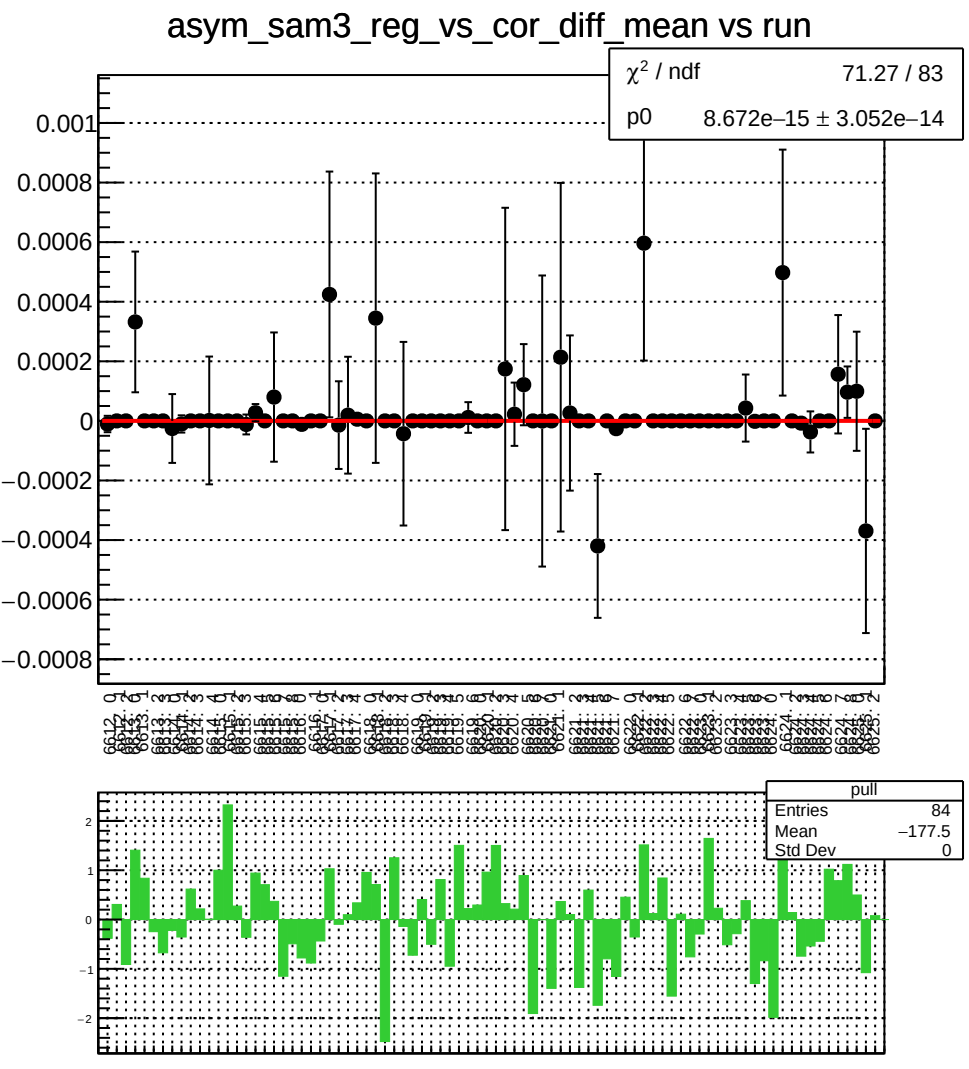

pull1D
Entries 84
Mean 0.009935
Std Dev 0.943
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

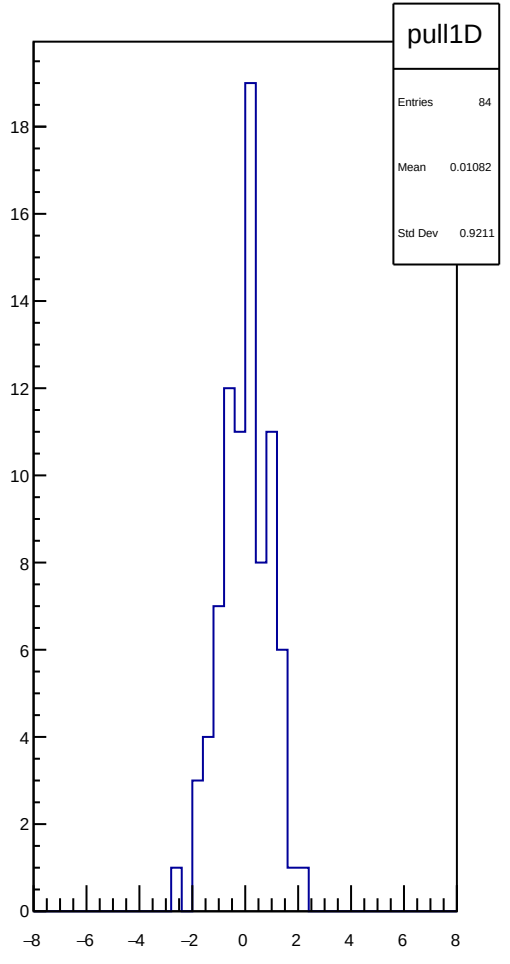

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.424e+04 / 83
p0 955.3 ± 0.7509
1200
1100
1000
900
800

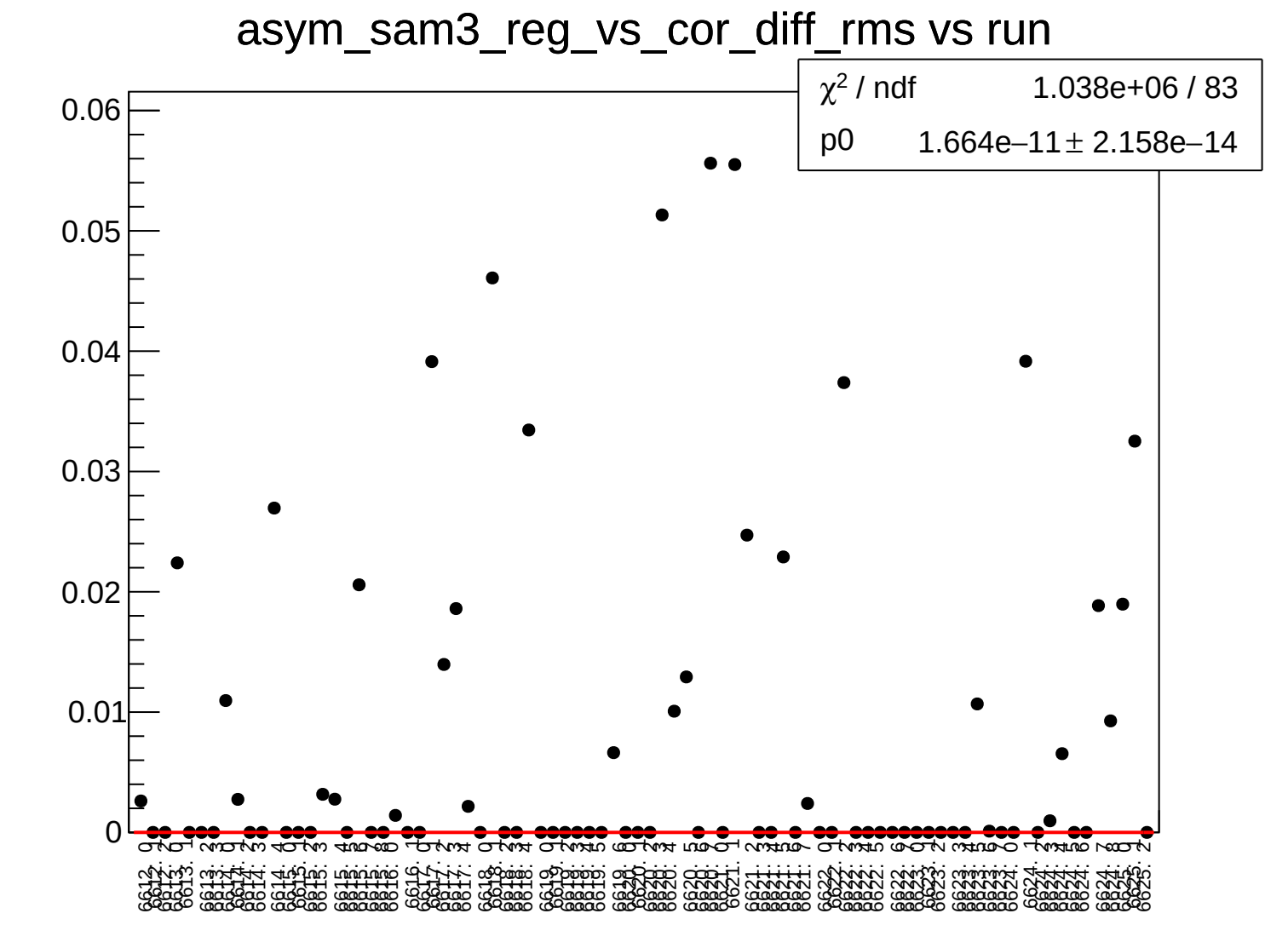

asym_sam3_mean vs run
χ² / ndf 76.7 / 83
p0 2619 ± 1146
pull
Entries 84
Mean 179.7
Std Dev 0

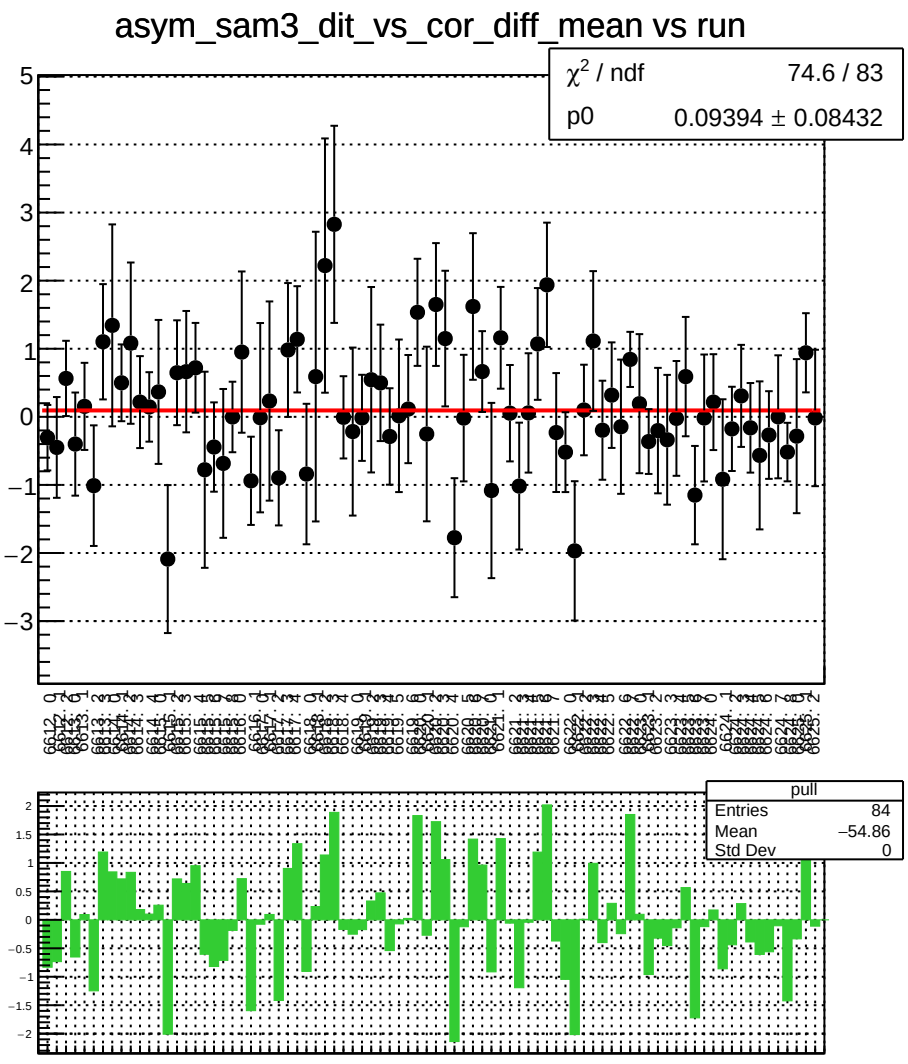

pull1D
Entries 84
Mean −0.009664
Std Dev 0.9555

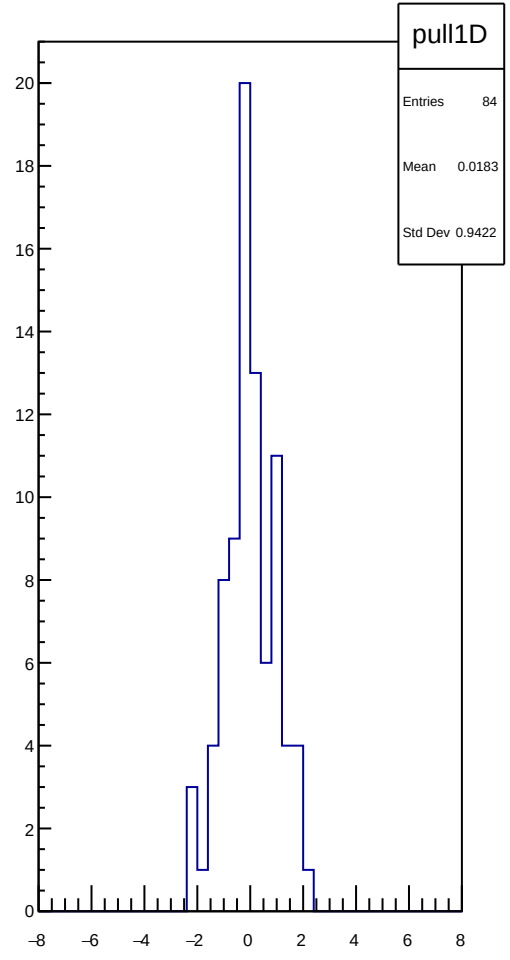

asym_sam3_rms vs run
χ^2 / ndf 1.984e+04 / 83
p0 1030 ± 0.8107
1400
1300
1200
1100
1000
900

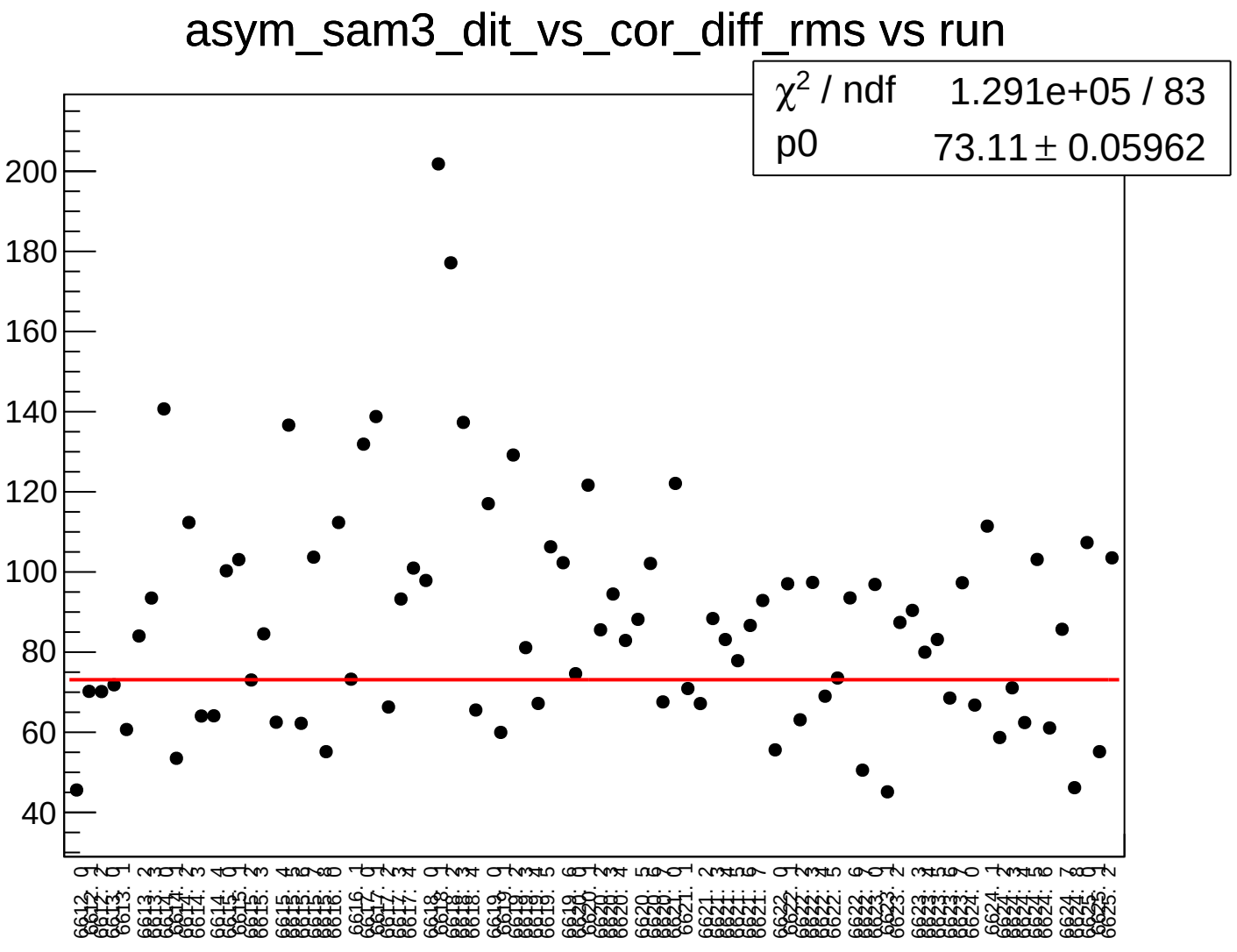

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 71.27 / 83
p0 8.672e−15 ± 3.052e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 84
Mean −177.5
Std Dev 0
2
1
0
−1
−2

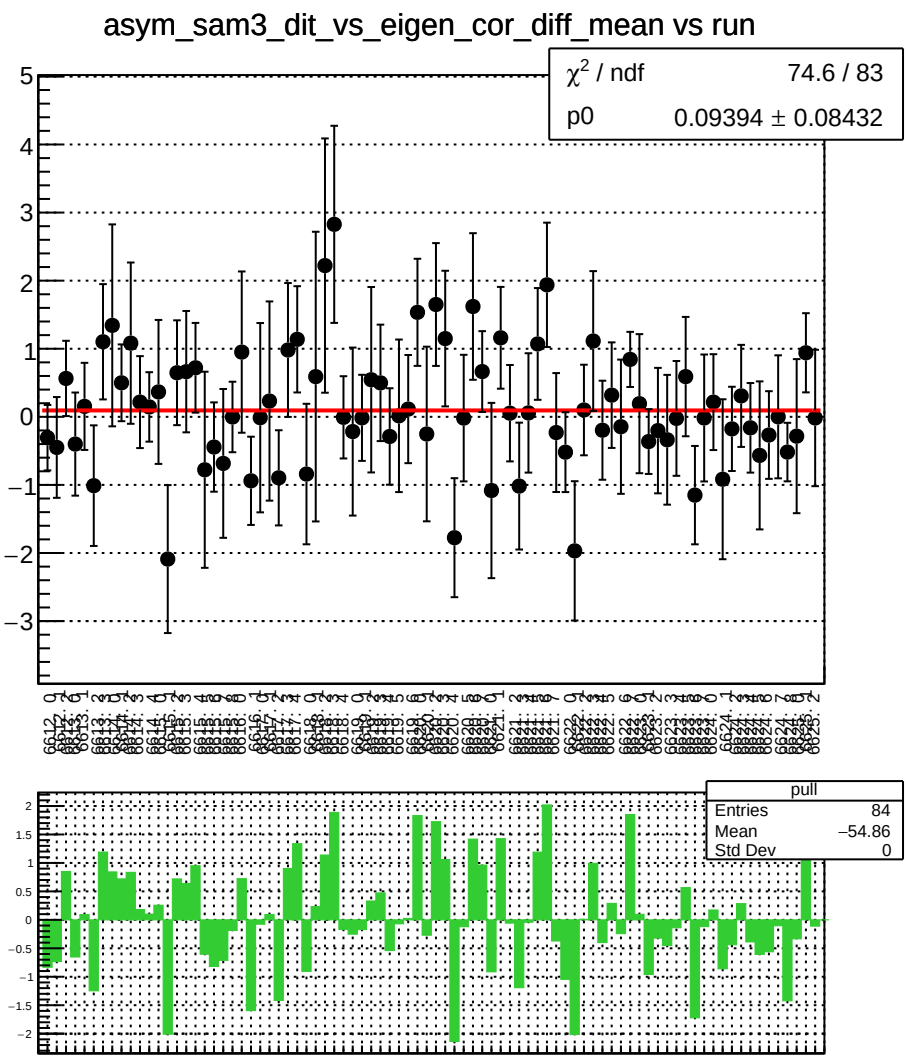

pull1D
Entries 84
Mean 0.01082
Std Dev 0.9211
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

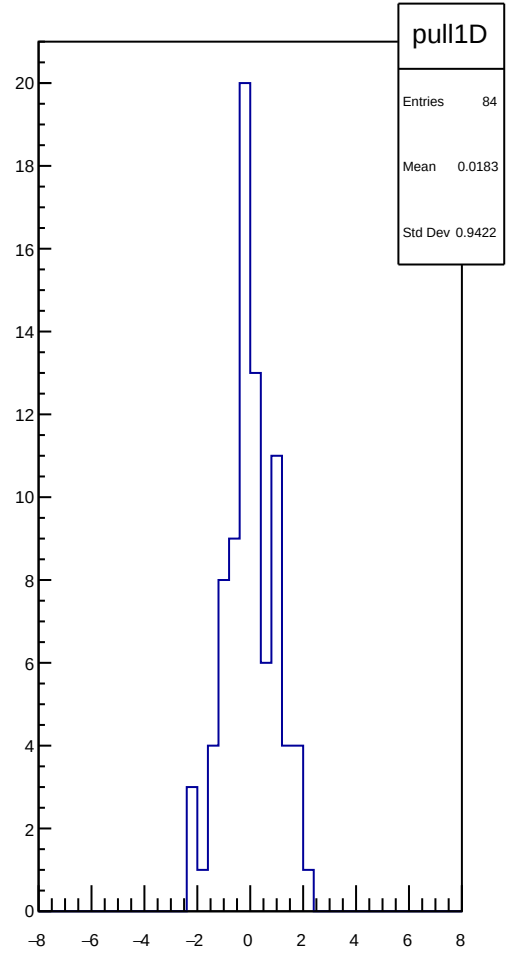

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.038e+06 / 83
p0 1.664e−11 ± 2.158e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

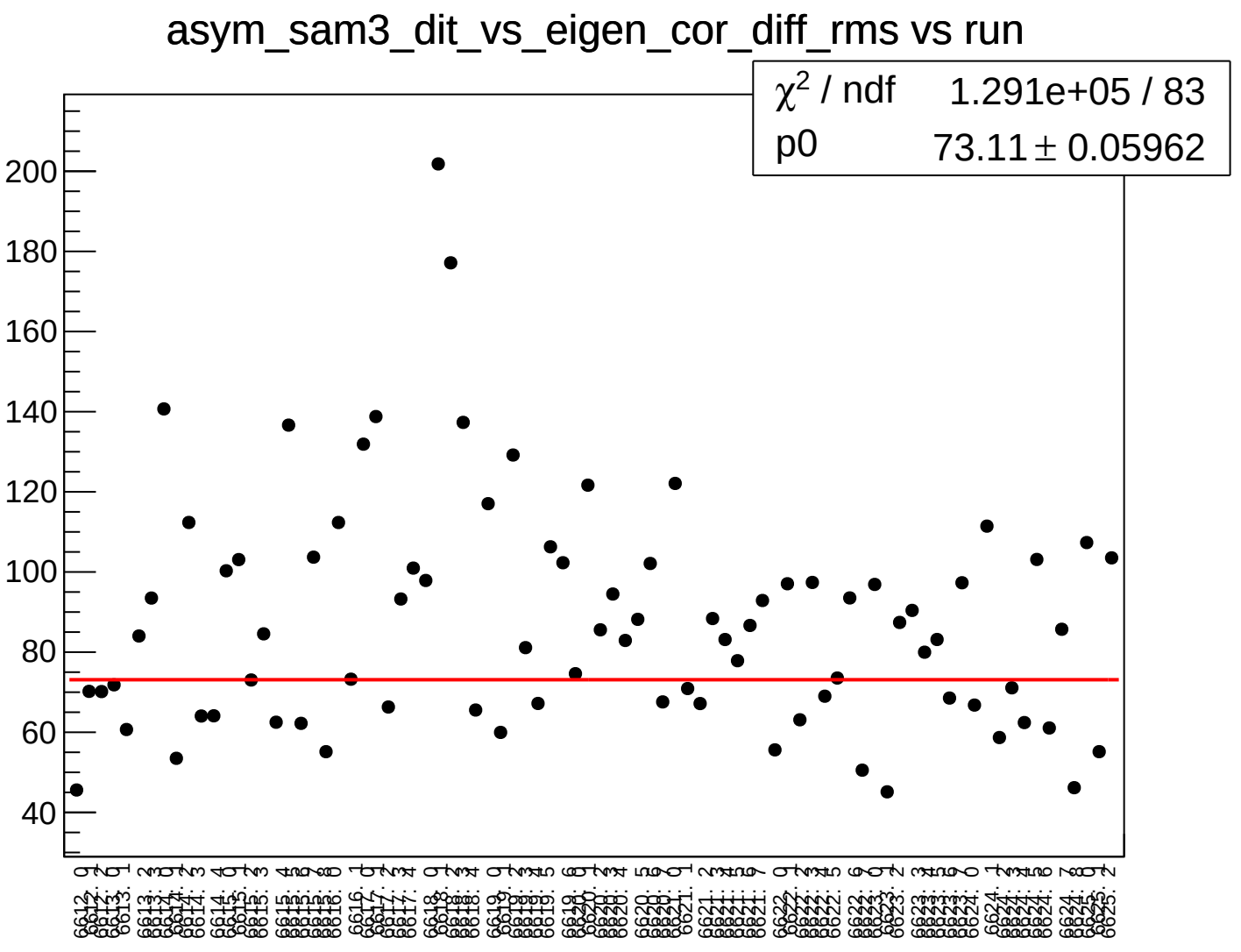

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 74.6 / 83
p0 0.09394 ± 0.08432
pull
Entries 84
Mean −54.86
Std Dev 0

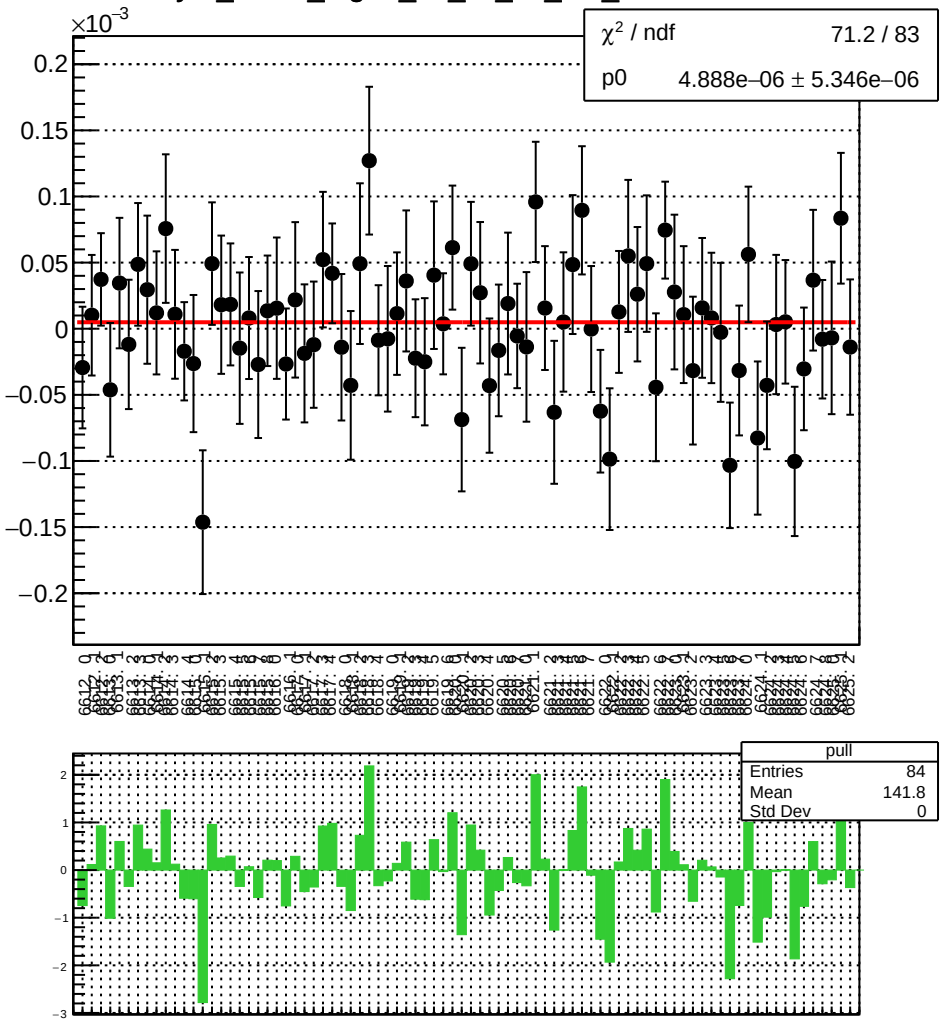

pull1D
Entries 84
Mean 0.0183
Std Dev 0.9422

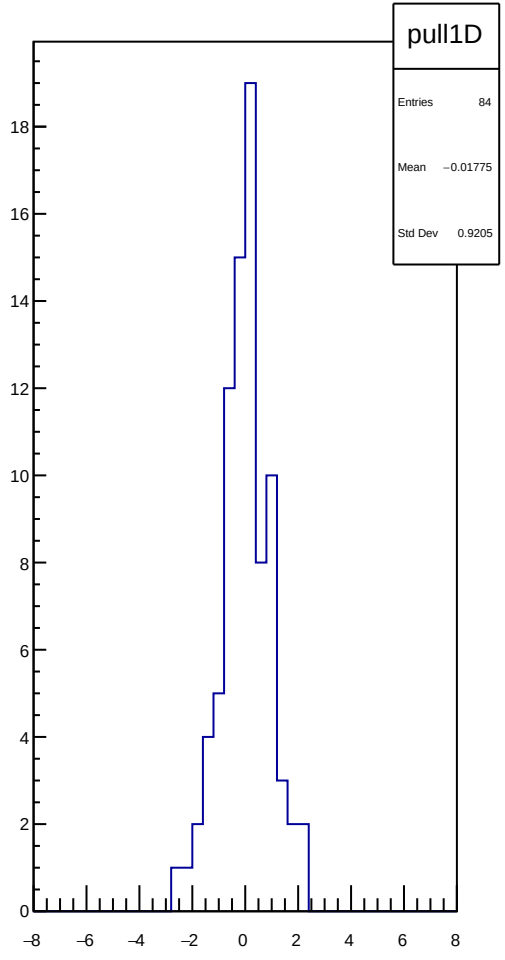

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 1.291e+05 / 83
p0 73.11 ± 0.05962
200
180
160
140
120
100
80
60
40

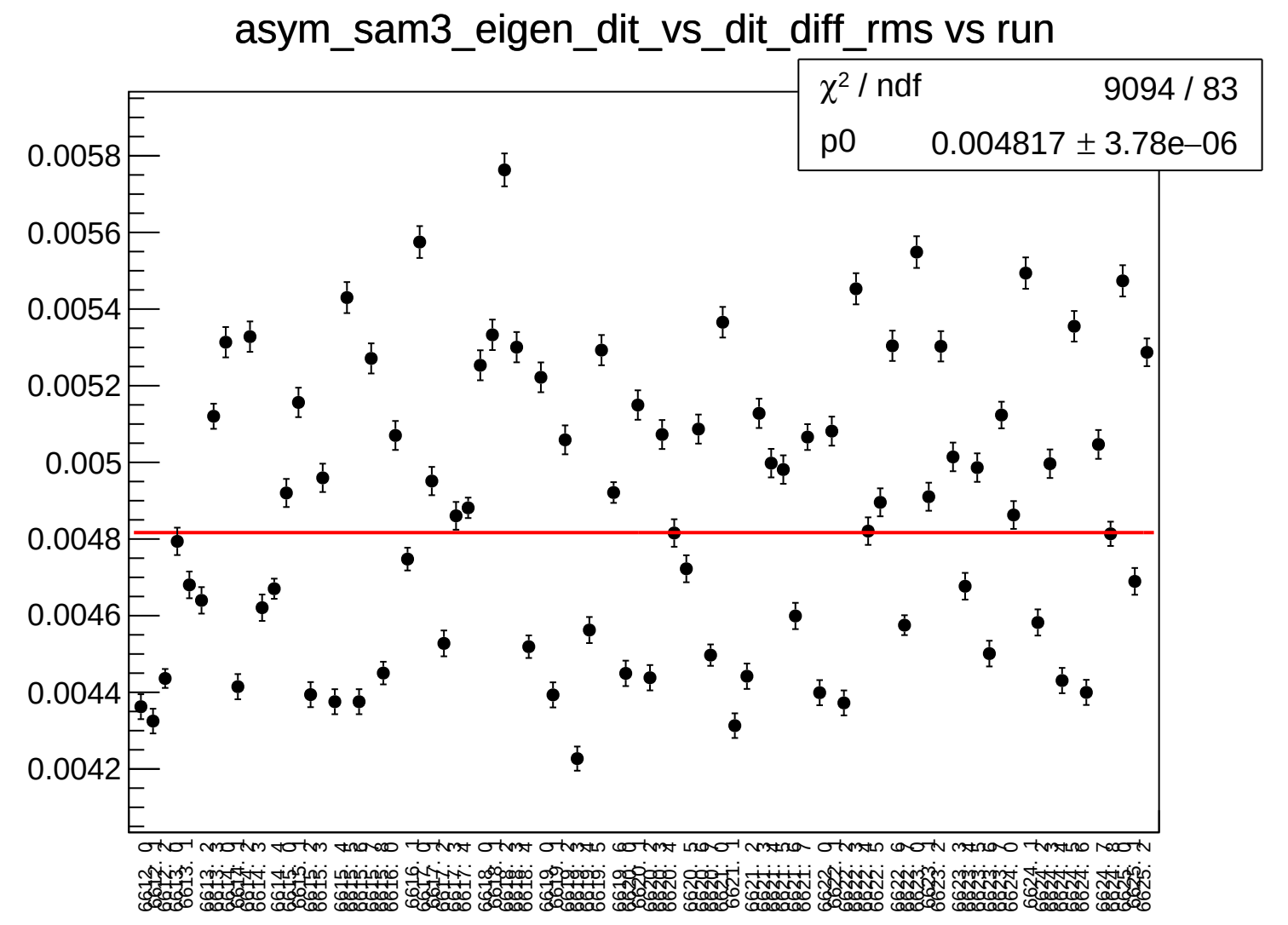

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.6 / 83
p0 0.09394 ± 0.08432
pull
Entries 84
Mean −54.86
Std Dev 0

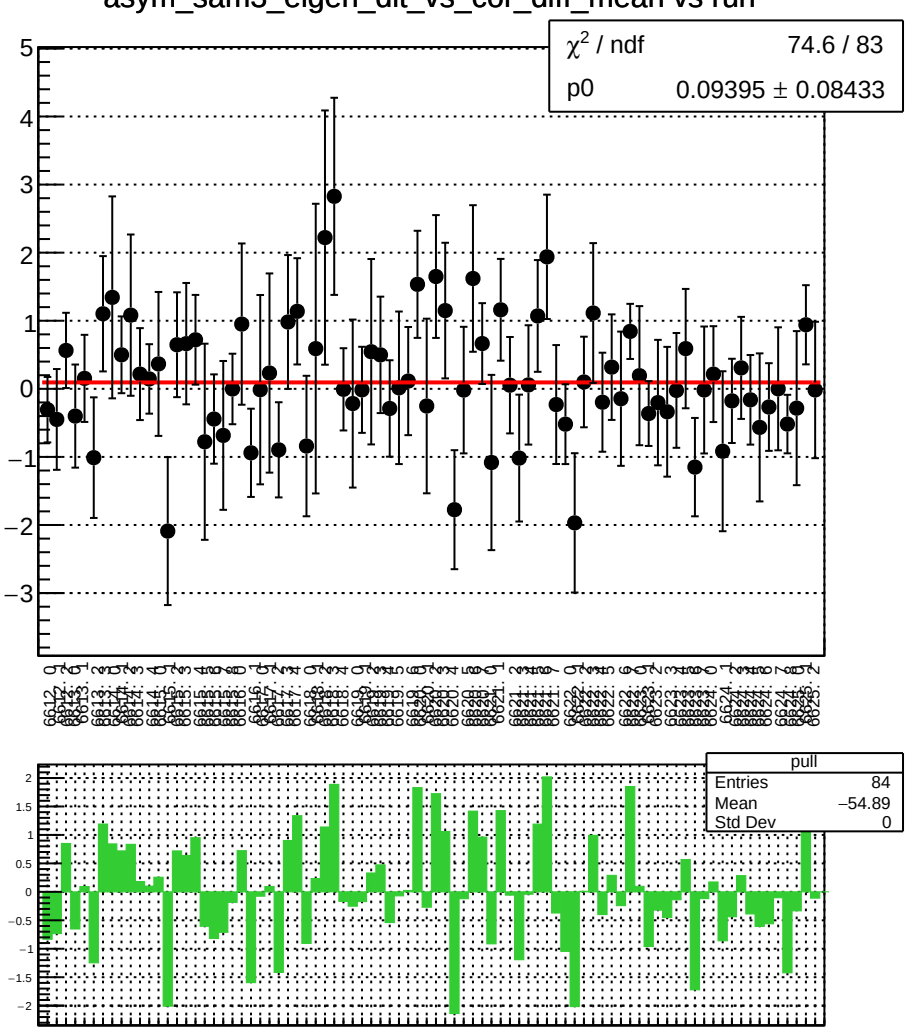

pull1D
Entries 84
Mean 0.0183
Std Dev 0.9422

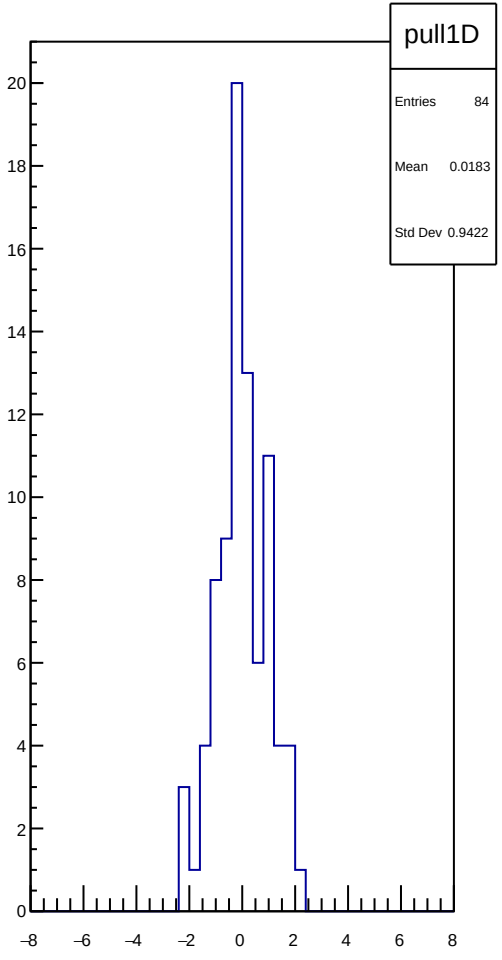

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.291e+05 / 83
p0 73.11 ± 0.05962
200
180
160
140
120
100
80
60
40

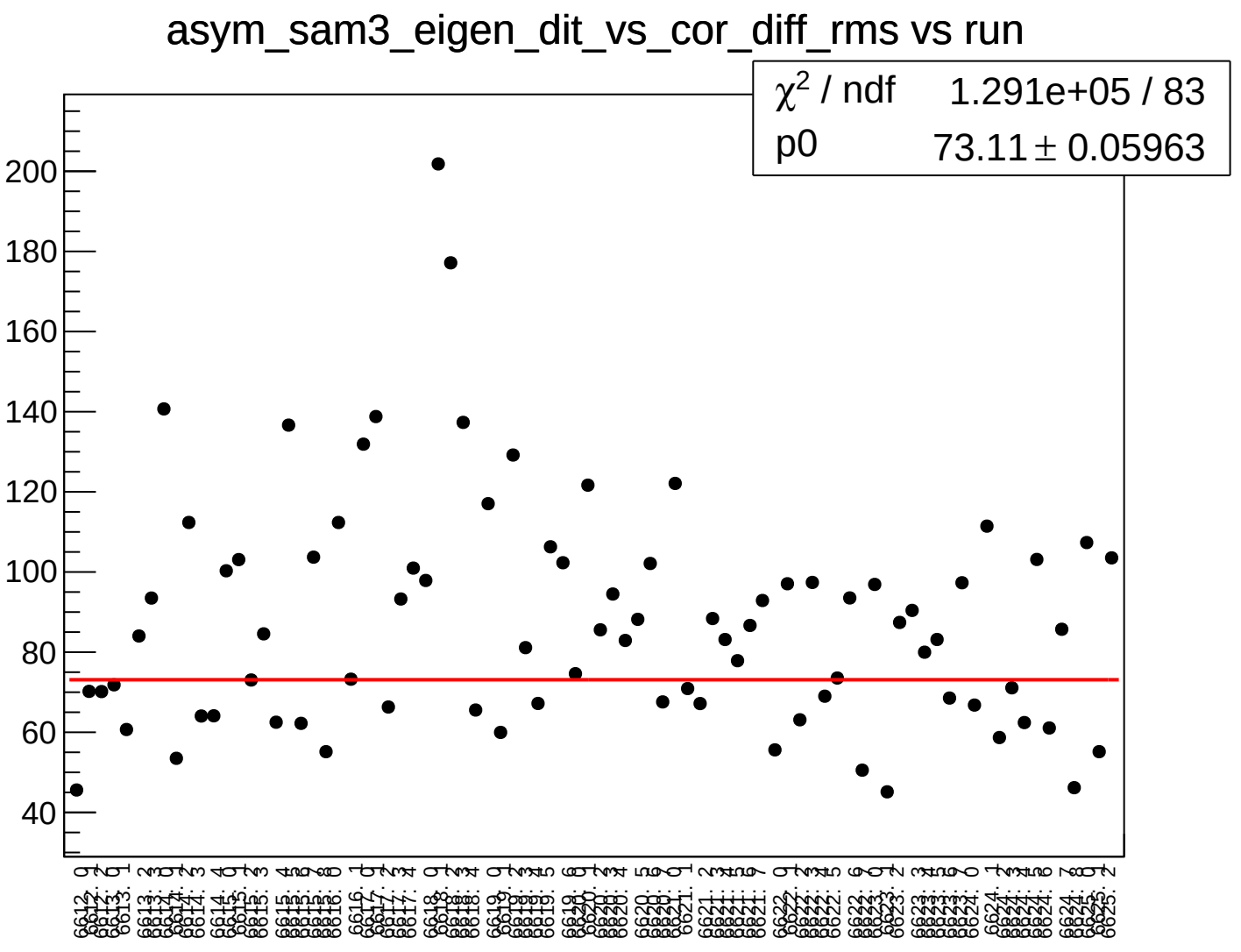

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.2 / 83
p0 4.888e−06 ± 5.346e−06
pull
Entries 84
Mean 141.8
Std Dev 0

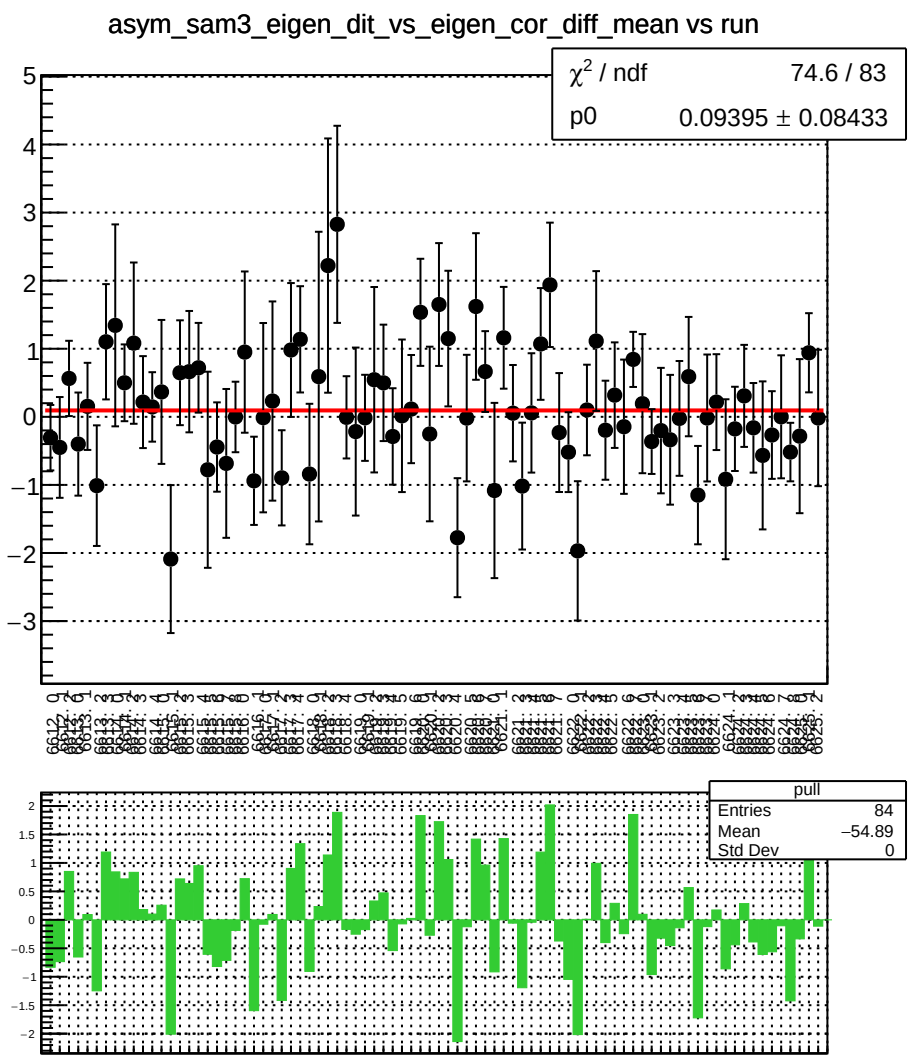

pull1D
Entries 84
Mean −0.01775
Std Dev 0.9205

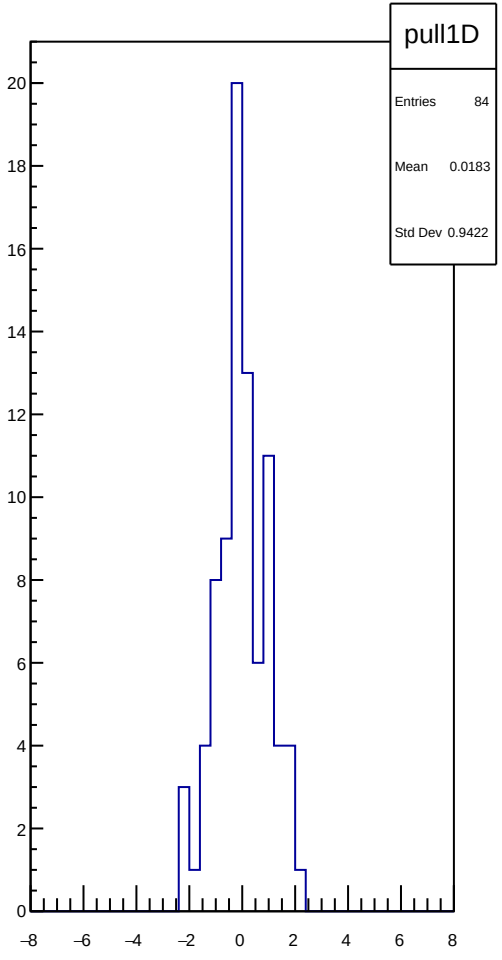

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9094 / 83
p0 0.004817 ± 3.78e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

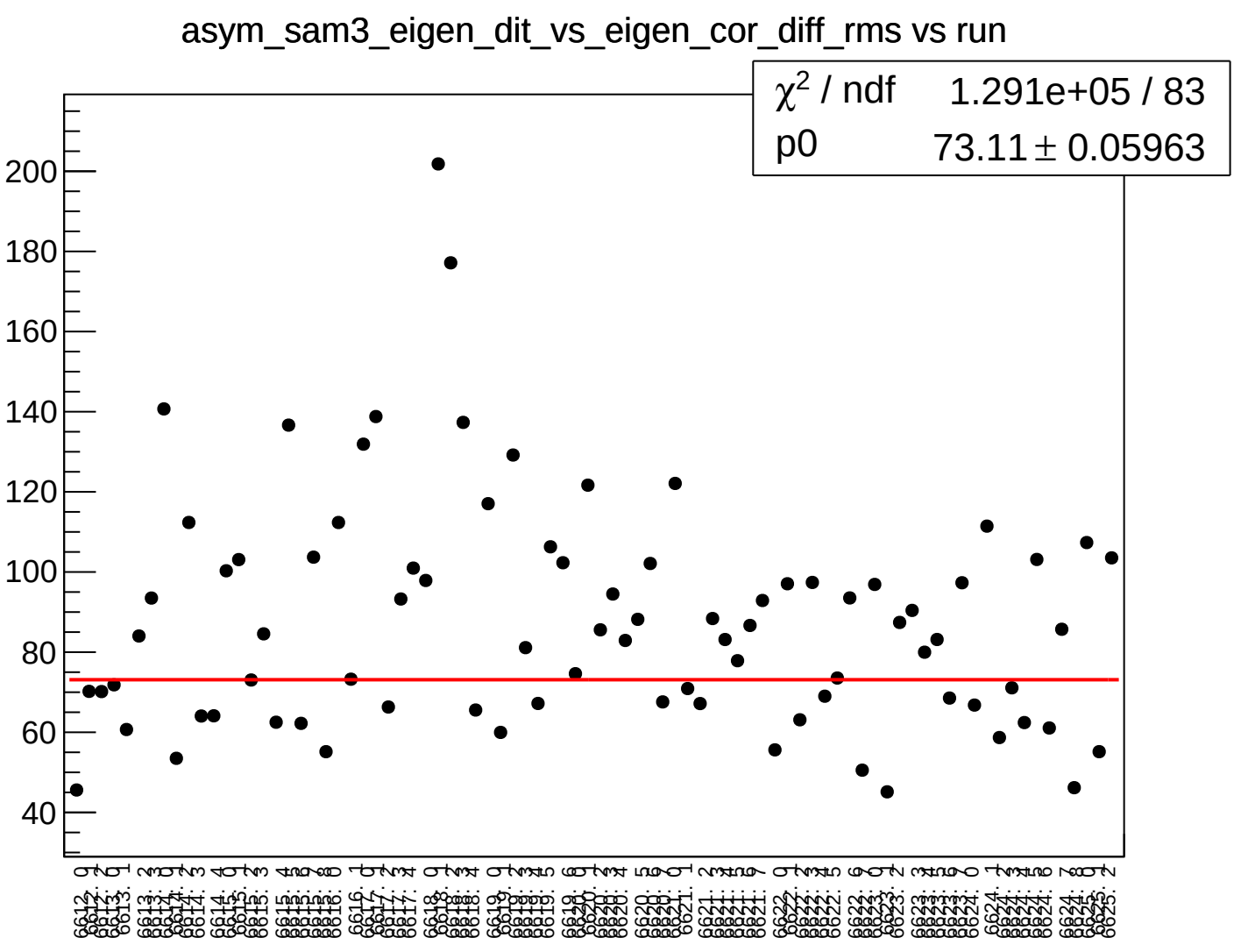

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.6 / 83
p0 0.09395 ± 0.08433
pull
Entries 84
Mean −54.89
Std Dev 0

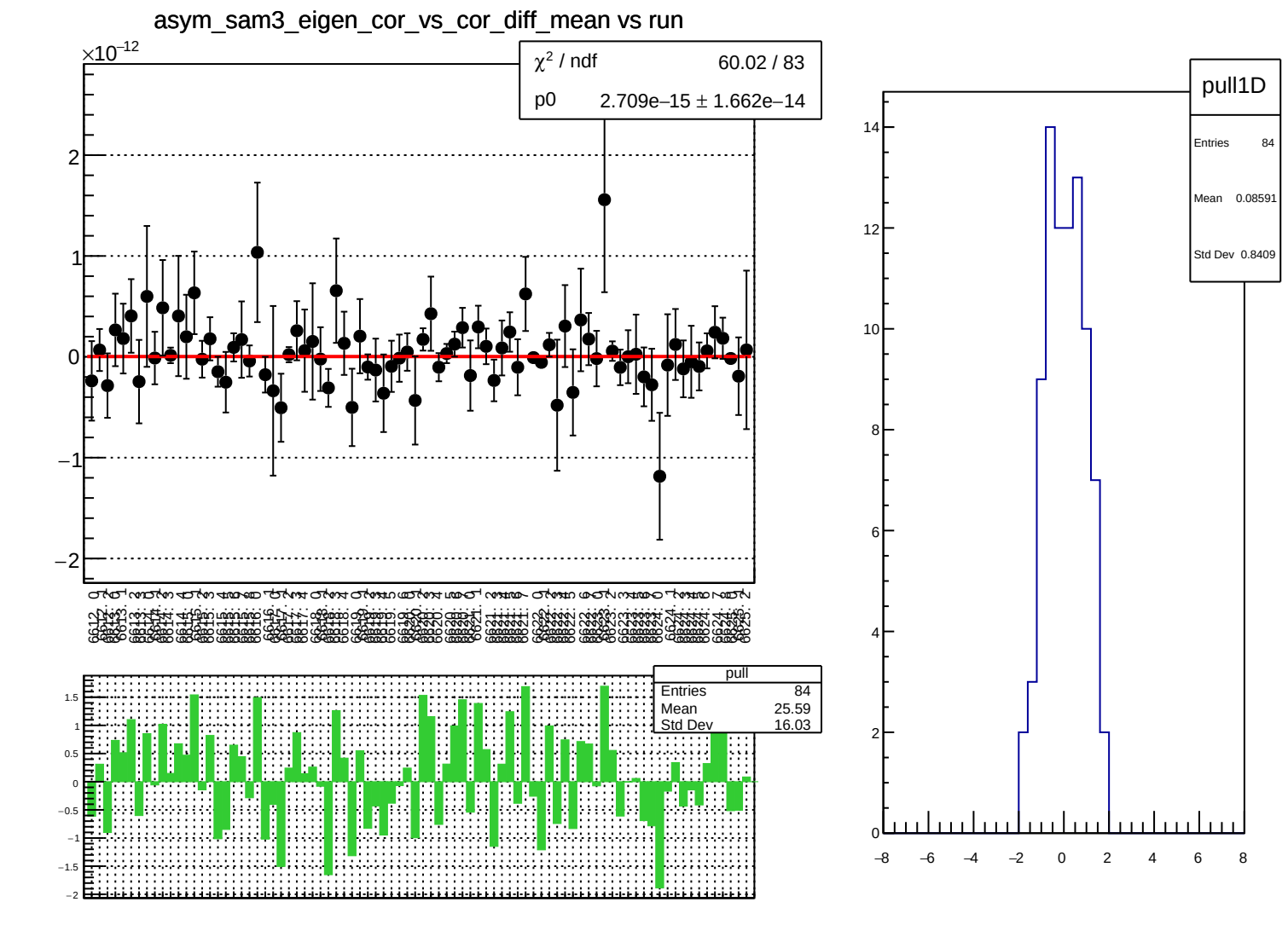

pull1D
Entries 84
Mean 0.0183
Std Dev 0.9422

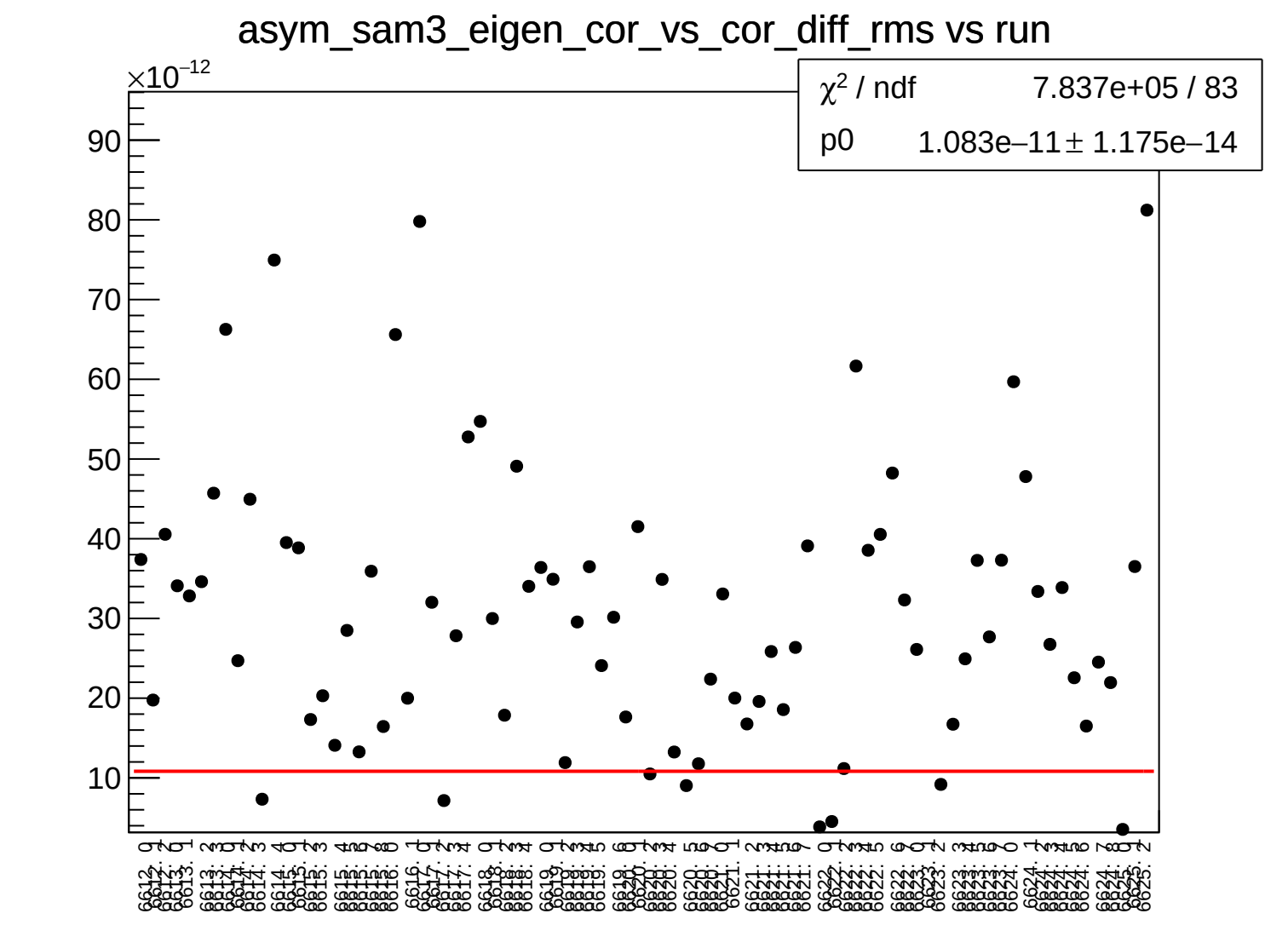

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.291e+05 / 83
p0 73.11 ± 0.05963
200
180
160
140
120
100
80
60
40

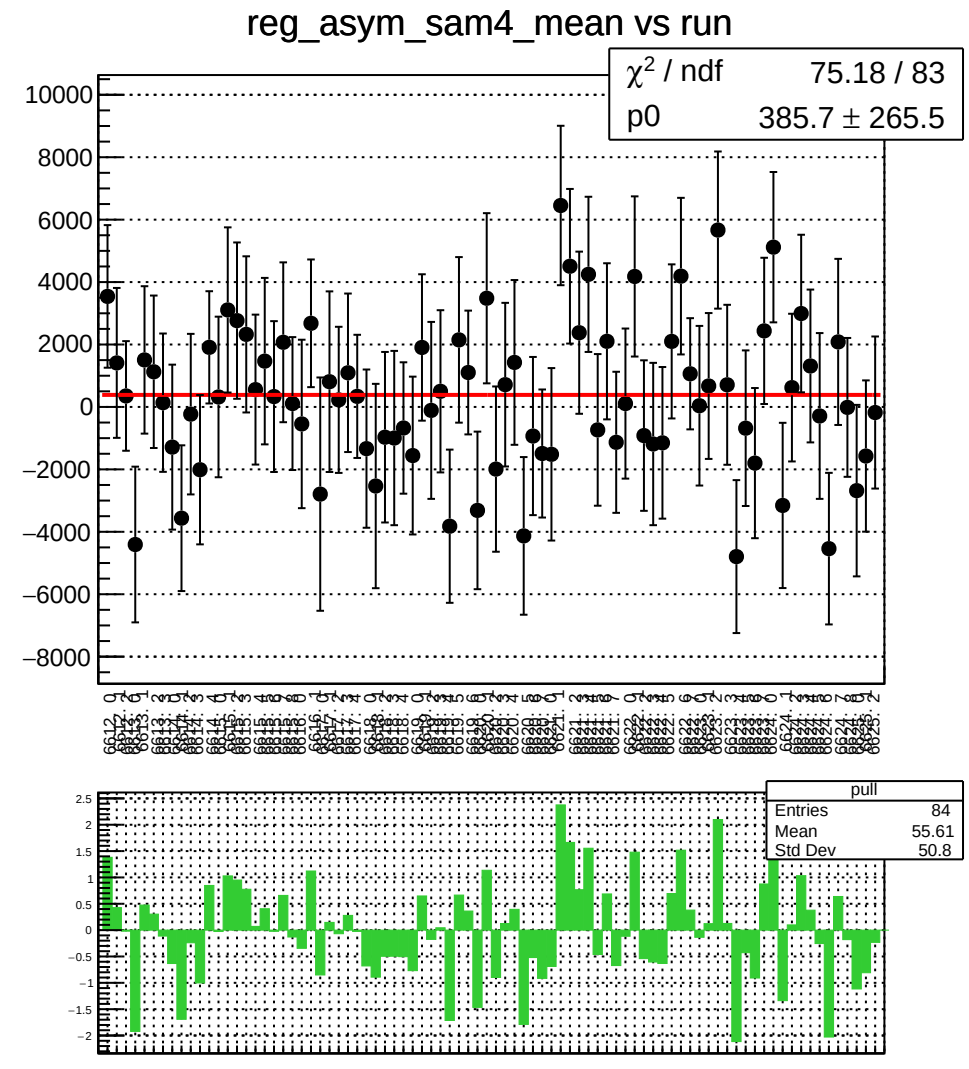

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.6 / 83
p0 0.09395 ± 0.08433
pull
Entries 84
Mean −54.89
Std Dev 0

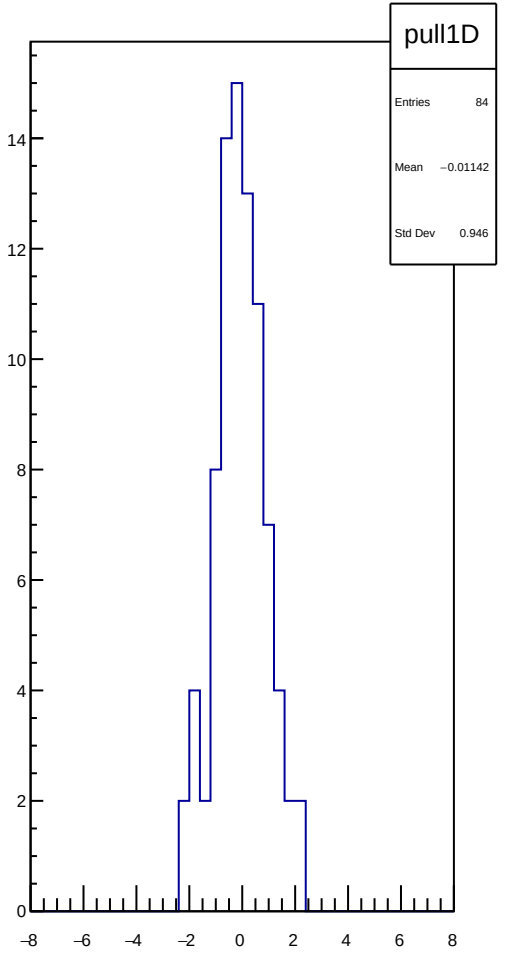

pull1D
Entries 84
Mean 0.0183
Std Dev 0.9422

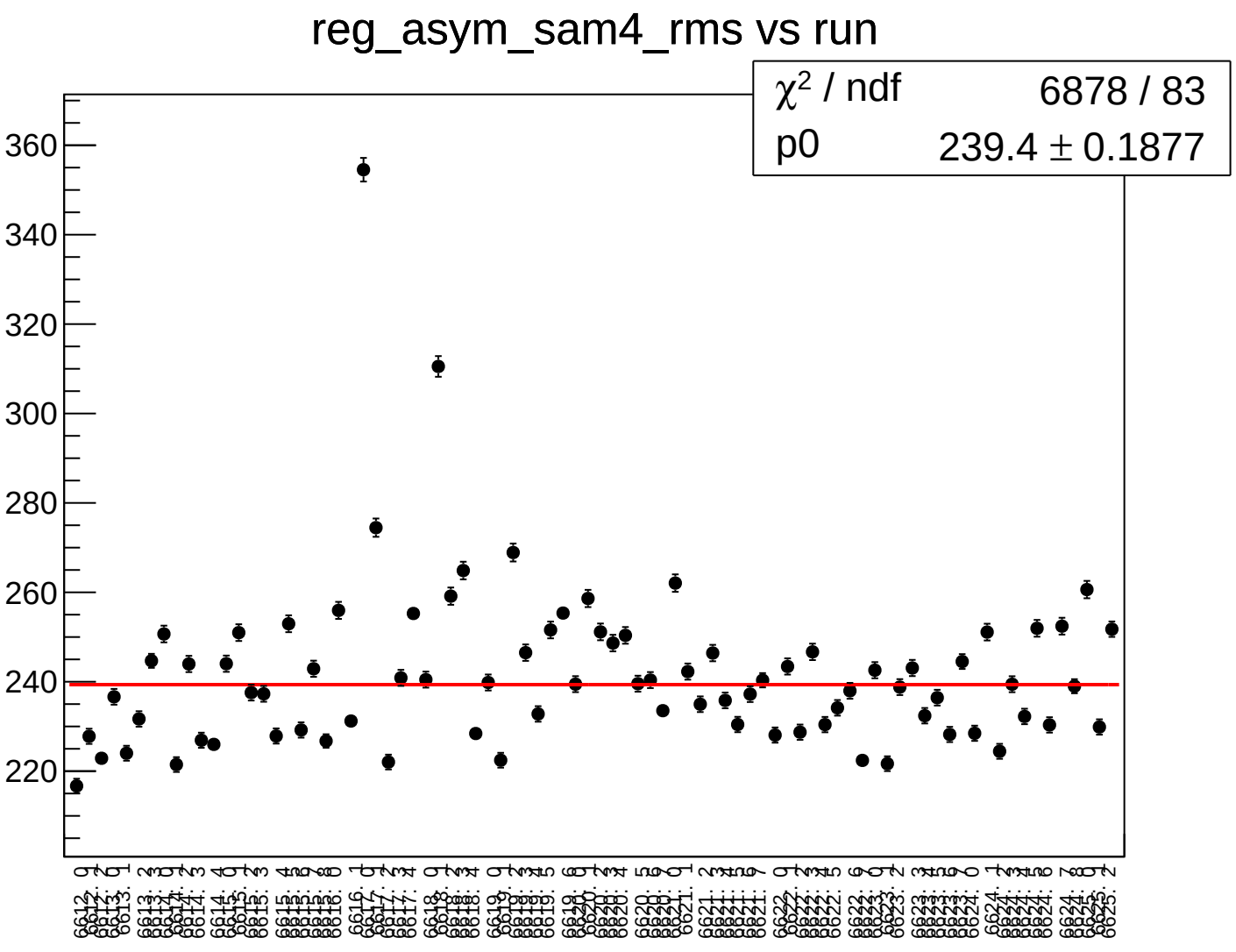

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.291e+05 / 83
p0 73.11 ± 0.05963
200
180
160
140
120
100
80
60
40

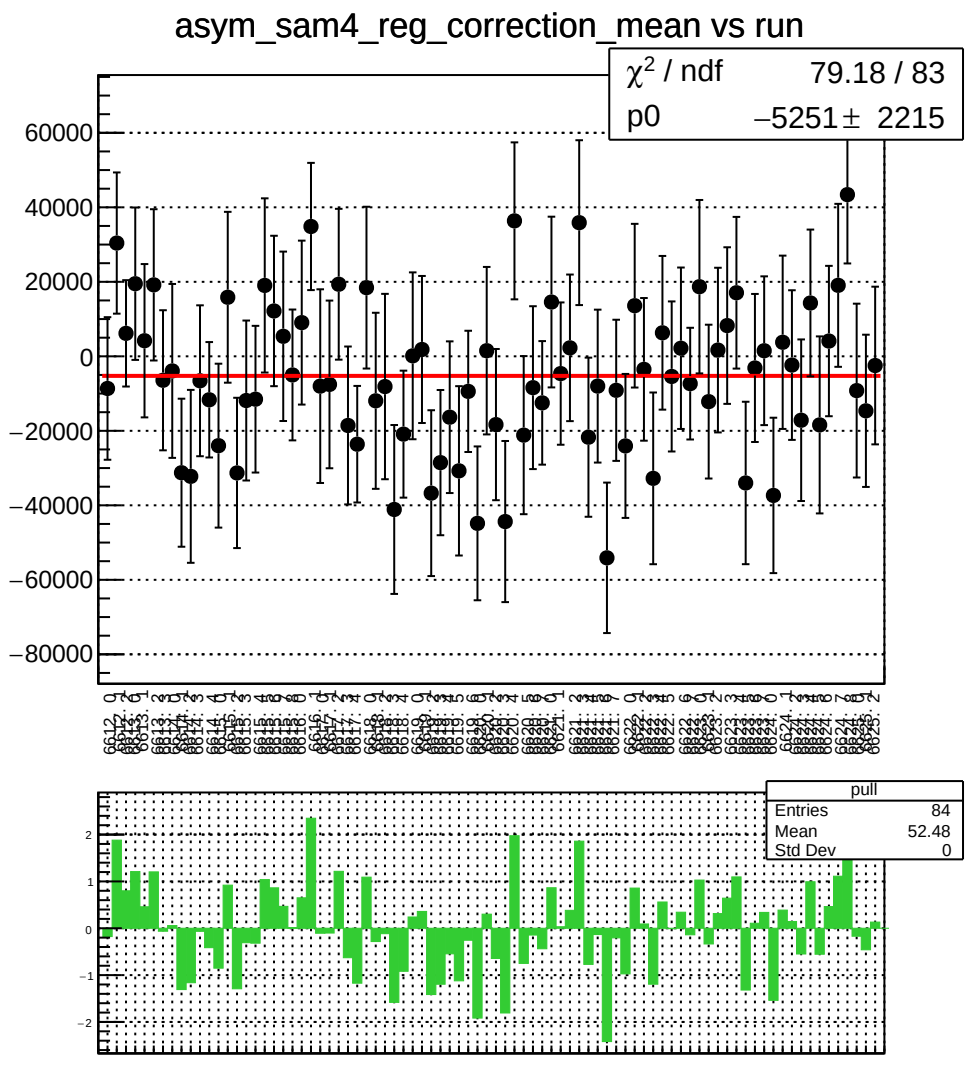

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 60.02 / 83
p0 2.709e−15 ± 1.662e−14
pull
Entries 84
Mean 25.59
Std Dev 16.03
pull1D
Entries 84
Mean 0.08591
Std Dev 0.8409

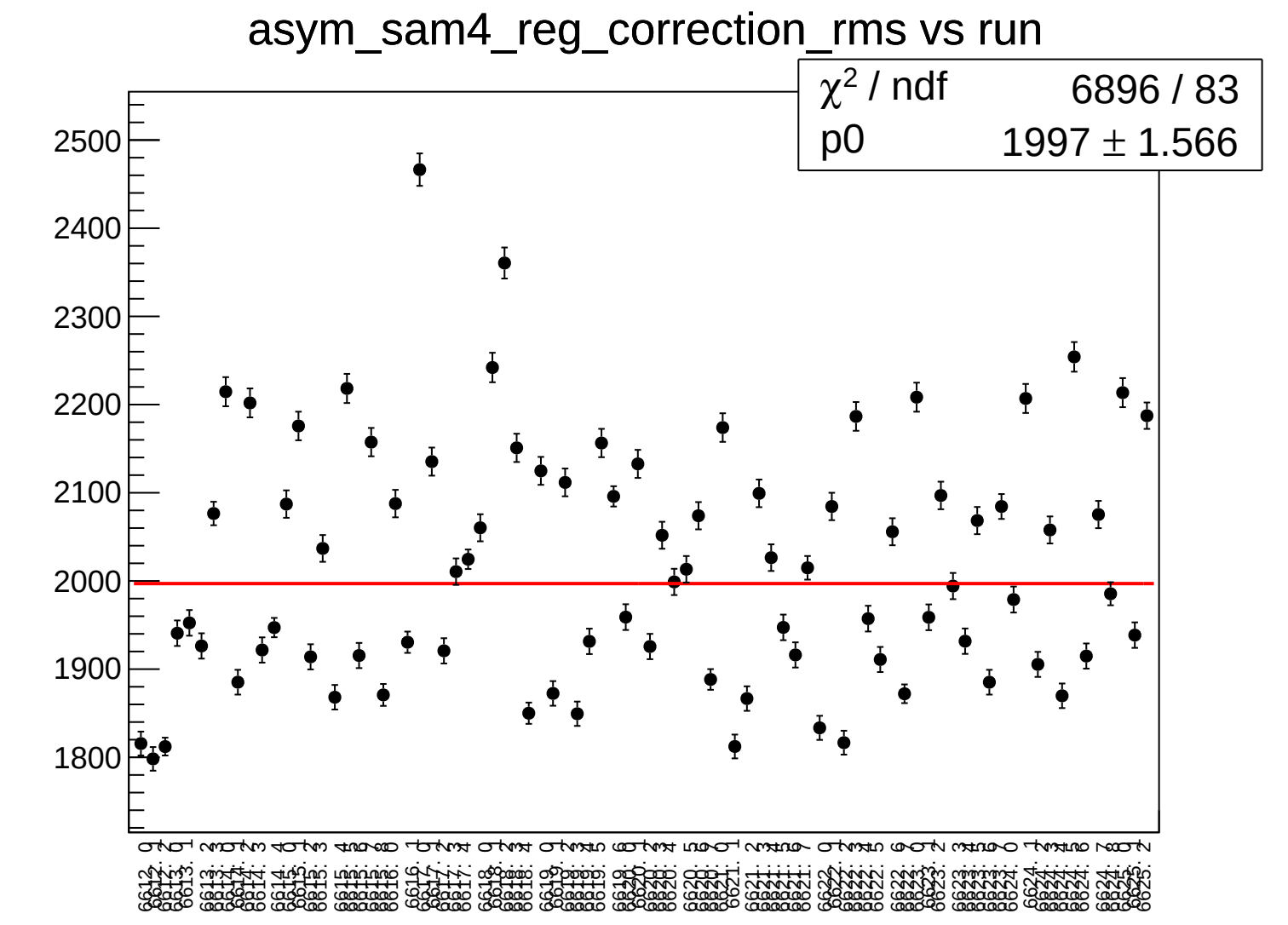

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.837e+05 / 83
p0 1.083e−11 ± 1.175e−14
90
80
70
60
50
40
30
20
10

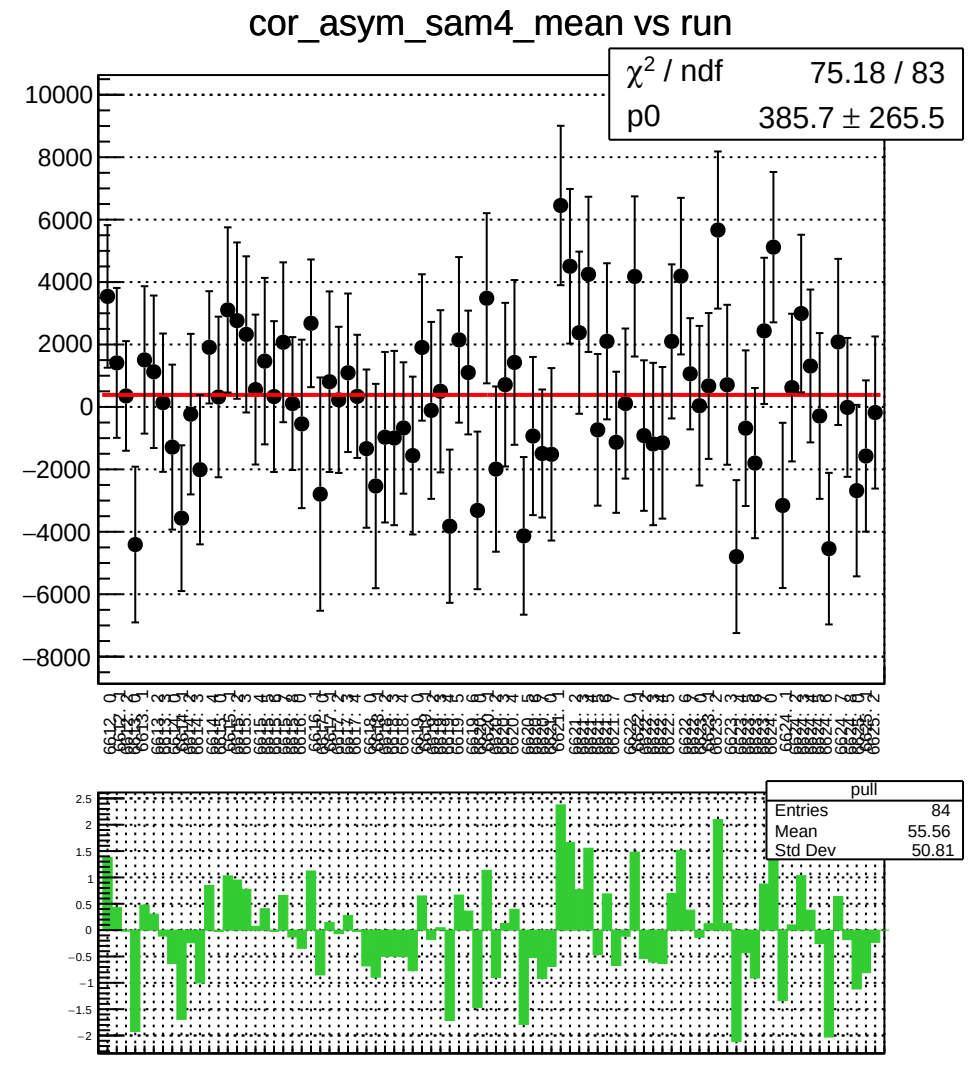

reg_asym_sam4_mean vs run
χ² / ndf 75.18 / 83
p0 385.7 ± 265.5
pull
Entries 84
Mean 55.61
Std Dev 50.8

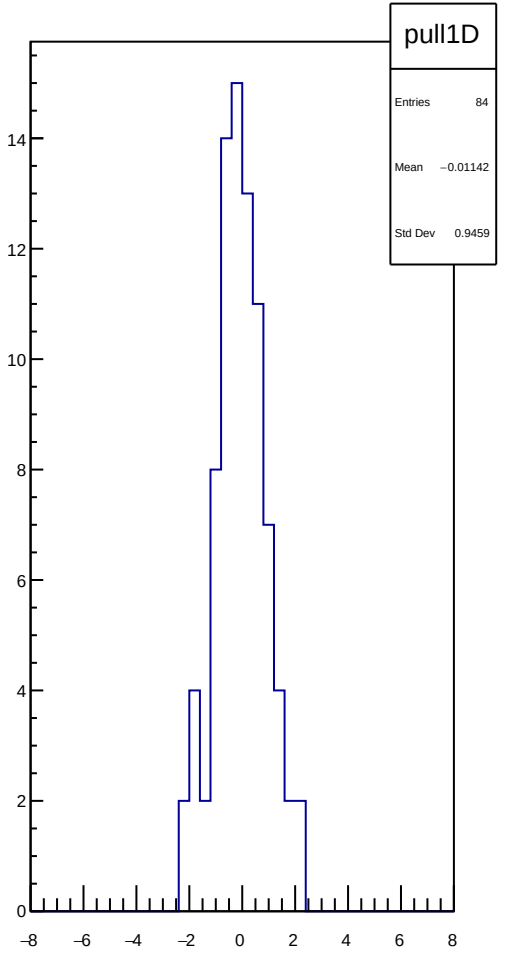

pull1D
Entries 84
Mean −0.01142
Std Dev 0.946

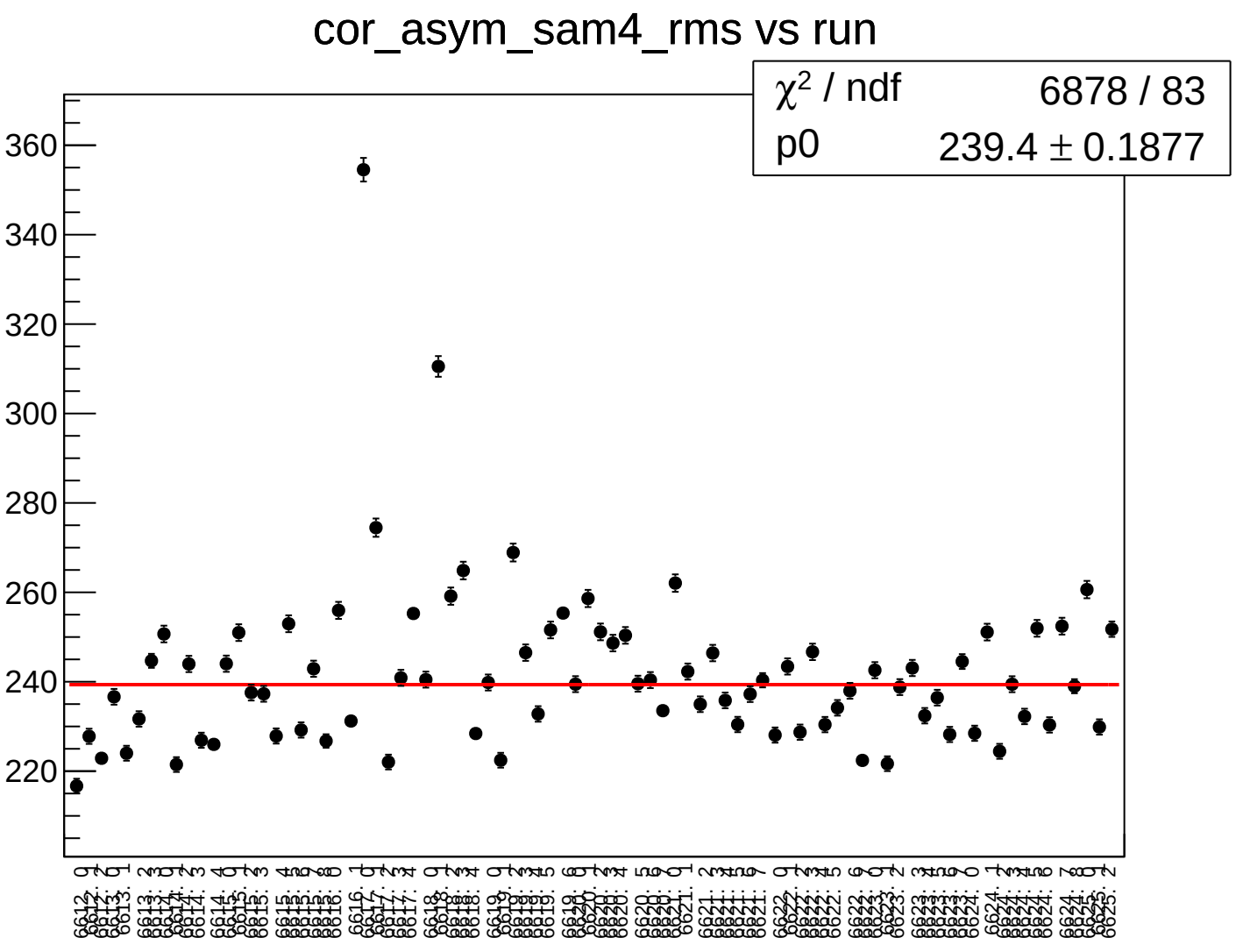

reg_asym_sam4_rms vs run
χ^2 / ndf 6878 / 83
p0 239.4 ± 0.1877
360
340
320
300
280
260
240
220

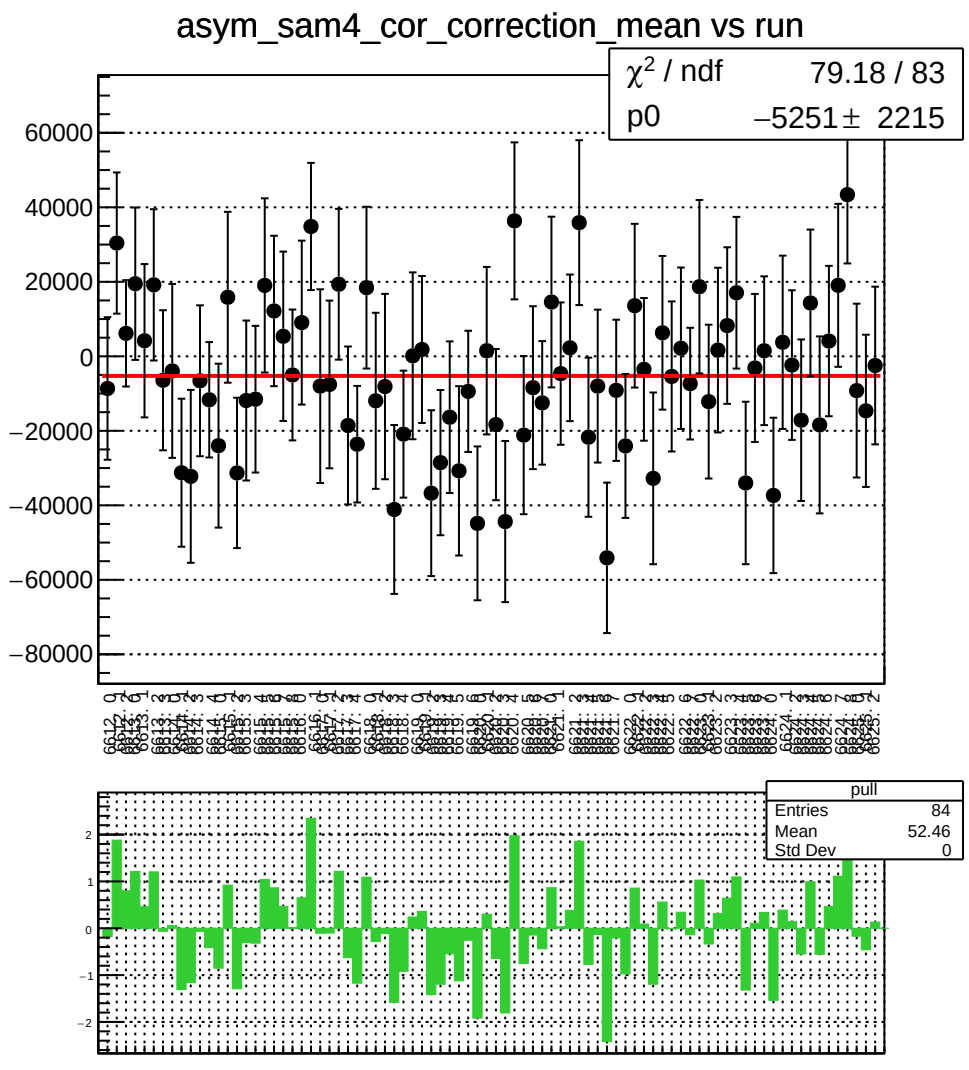

asym_sam4_reg_correction_mean vs run
χ² / ndf 79.18 / 83
p0 −5251 ± 2215
pull
Entries 84
Mean 52.48
Std Dev 0
pull1D
Entries 84
Mean −0.0046
Std Dev 0.9709

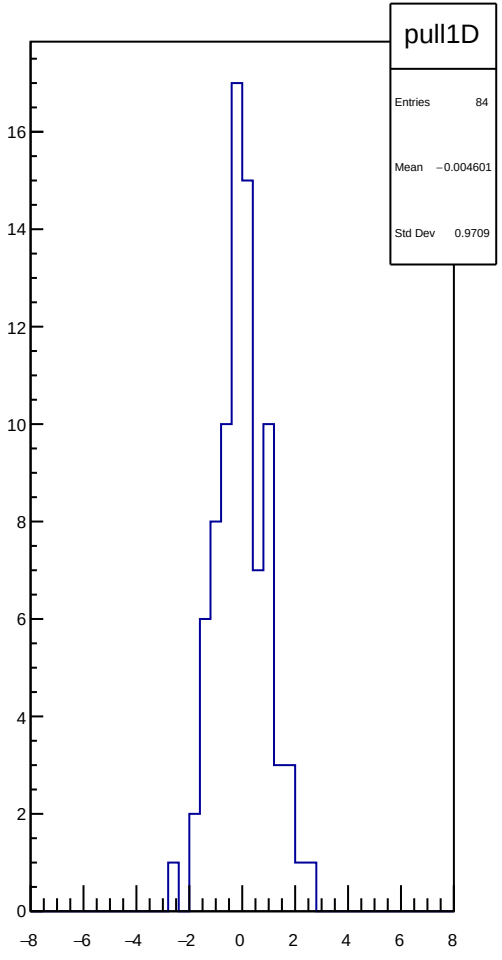

asym_sam4_reg_correction_rms vs run
χ² / ndf 6896 / 83
p0 1997 ± 1.566
2500
2400
2300
2200
2100
2000
1900
1800

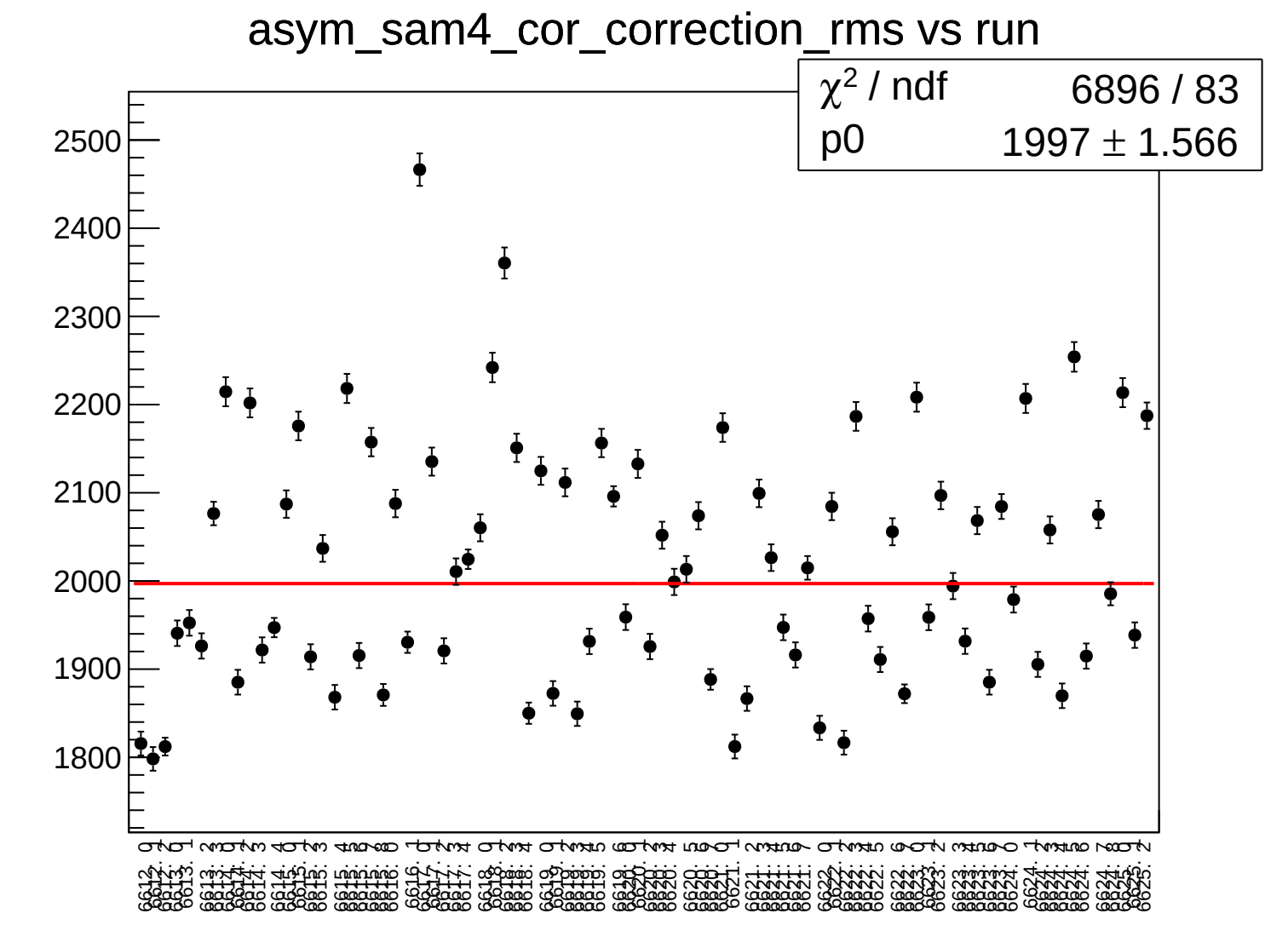

cor_asym_sam4_mean vs run
χ² / ndf 75.18 / 83
p0 385.7 ± 265.5
pull
Entries 84
Mean 55.56
Std Dev 50.81

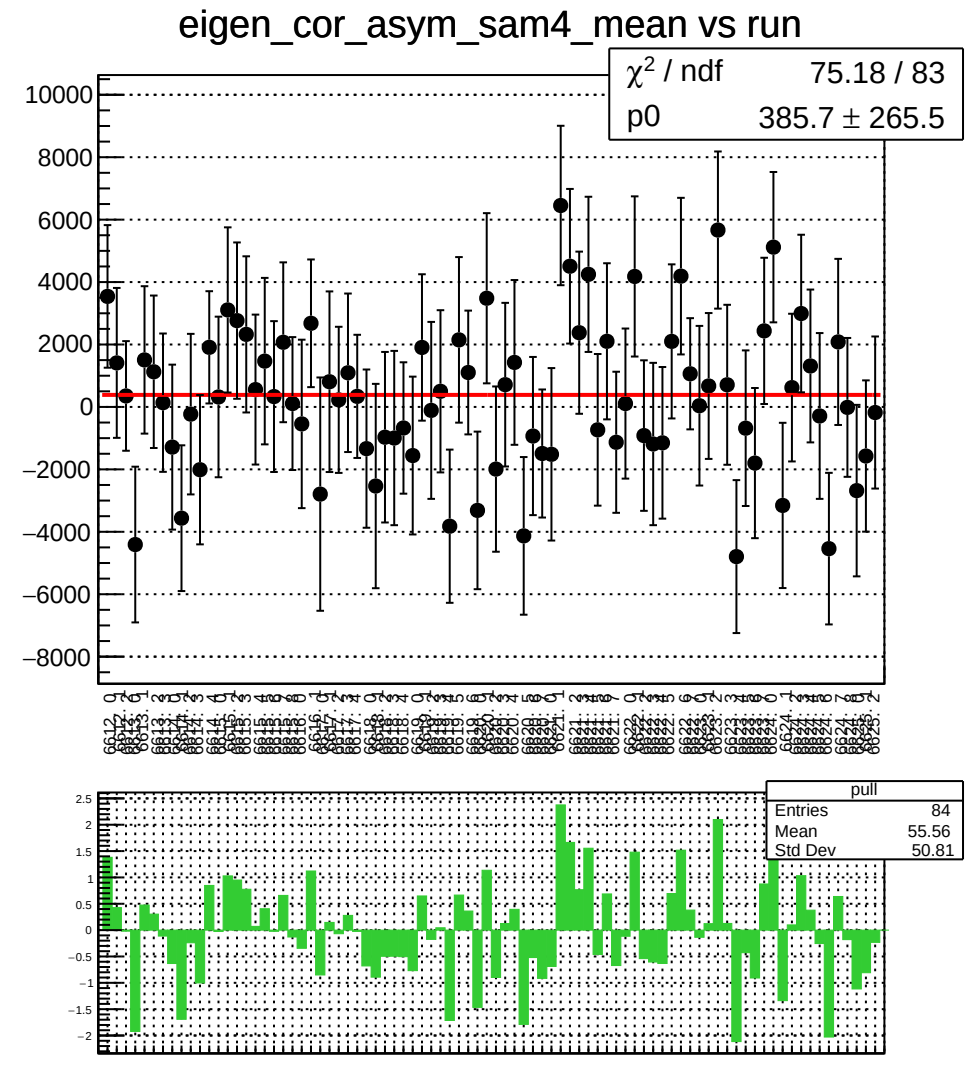

pull1D
Entries 84
Mean −0.01142
Std Dev 0.9459

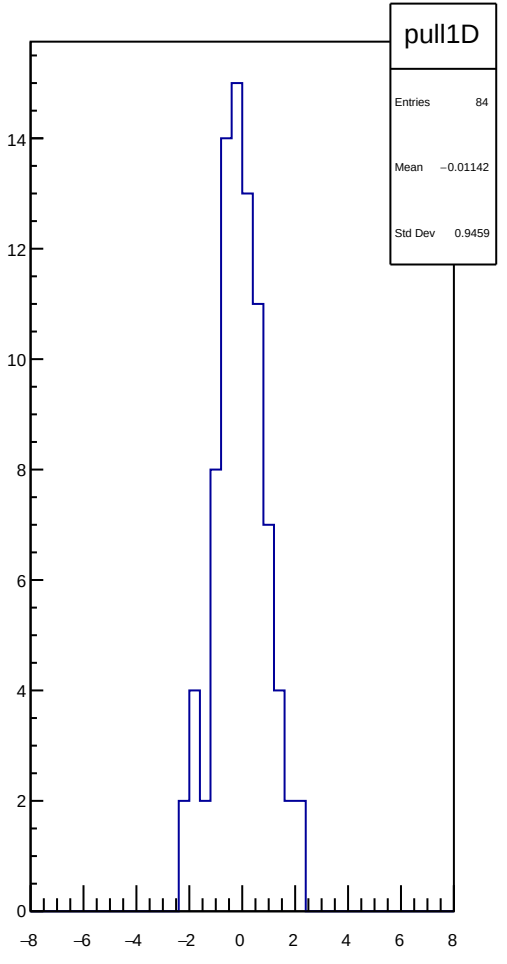

cor_asym_sam4_rms vs run
χ^2 / ndf 6878 / 83
p0 239.4 ± 0.1877
360
340
320
300
280
260
240
220

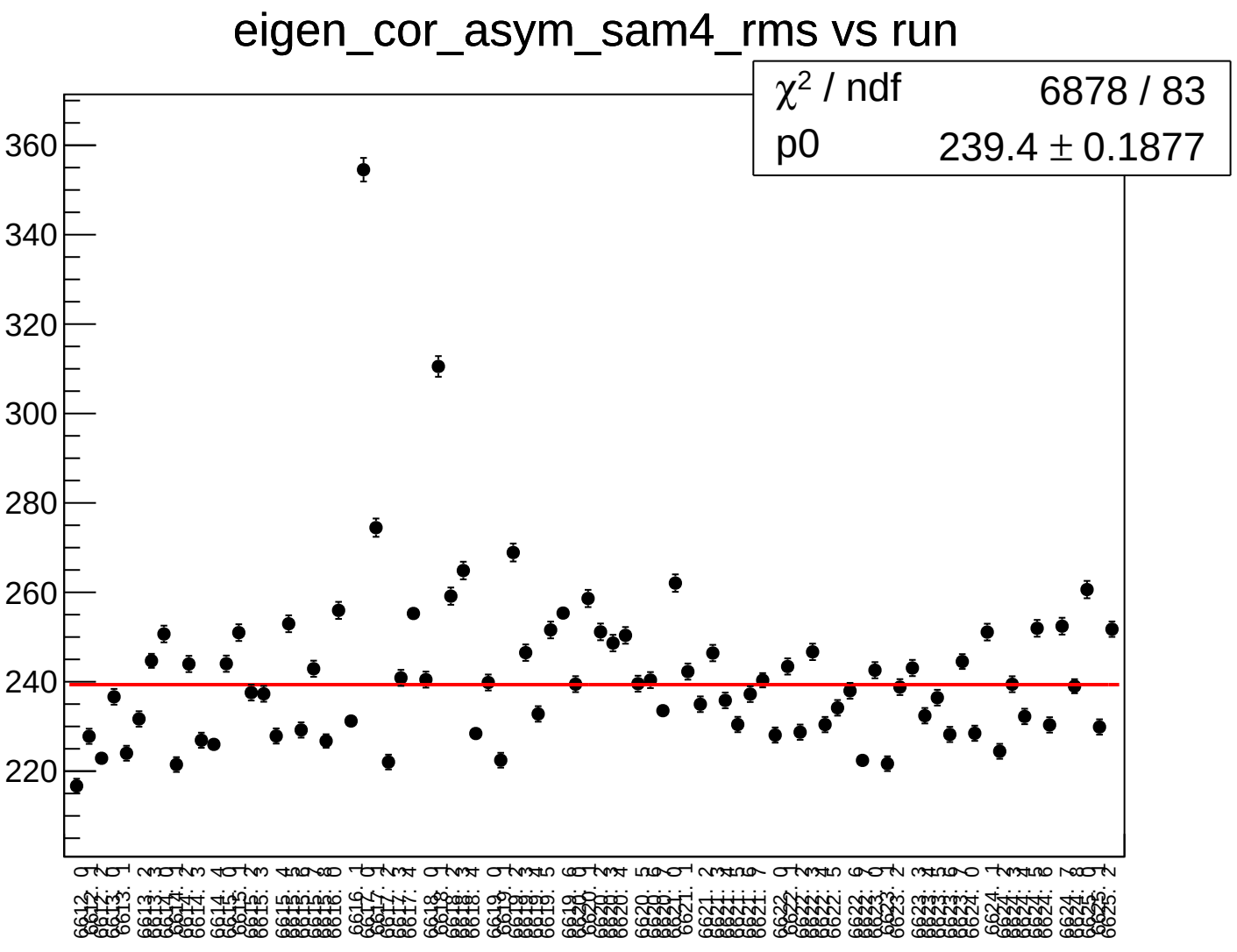

asym_sam4_cor_correction_mean vs run
χ² / ndf 79.18 / 83
p0 −5251 ± 2215
pull
Entries 84
Mean 52.46
Std Dev 0

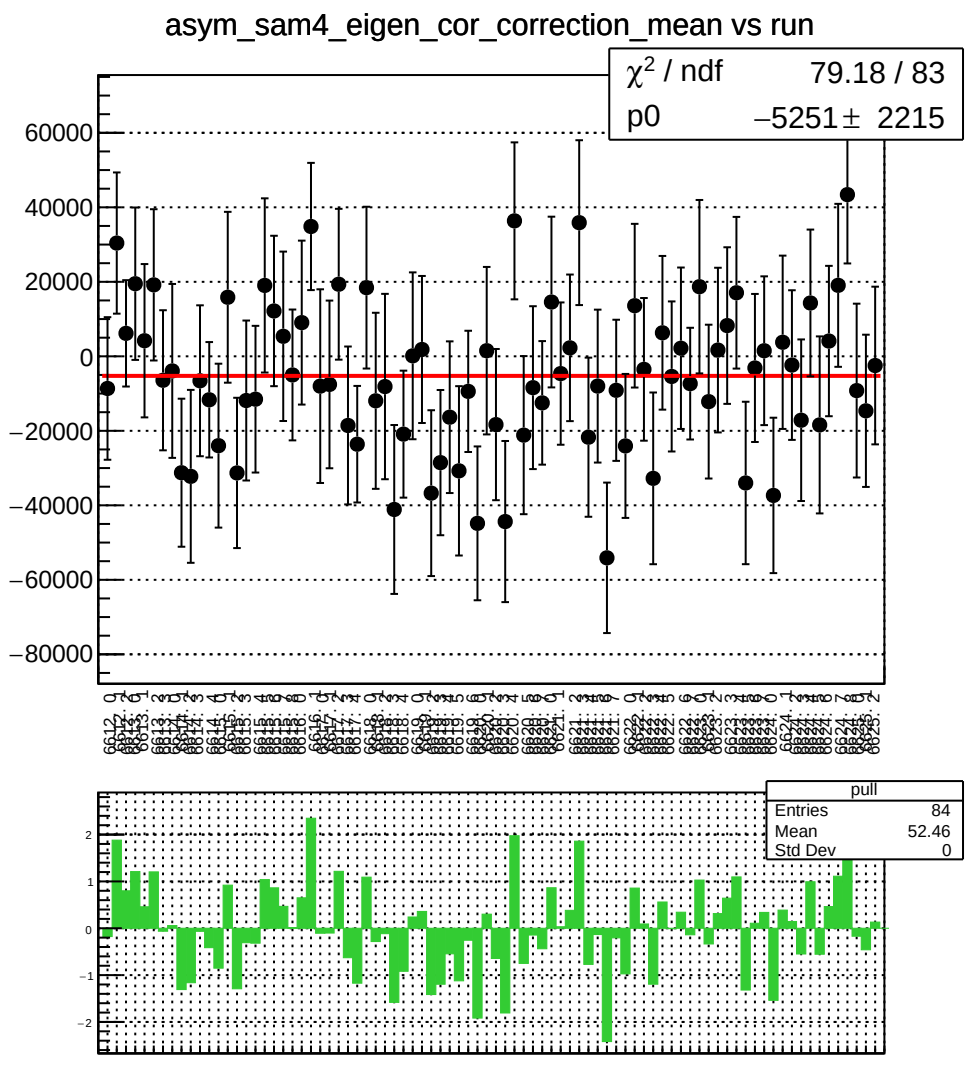

pull1D
Entries 84
Mean −0.004601
Std Dev 0.9709

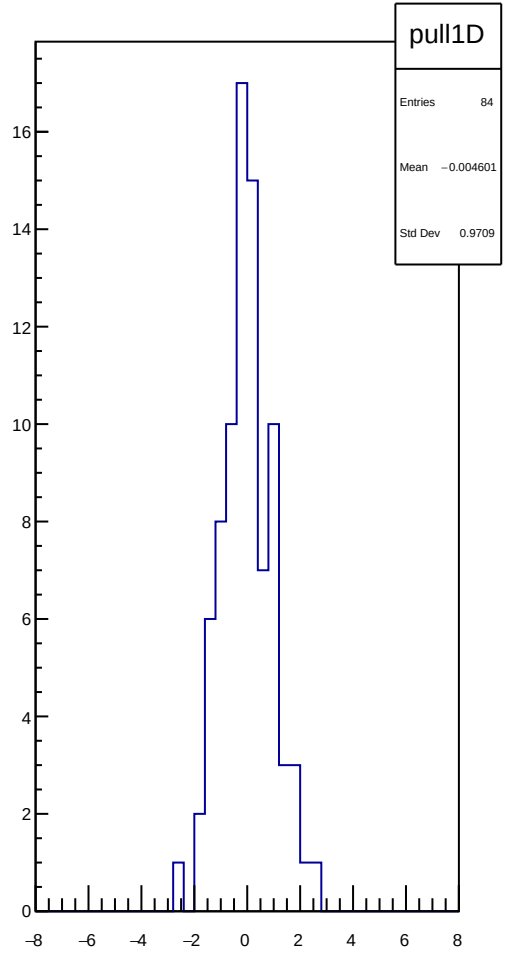

asym_sam4_cor_correction_rms vs run
χ² / ndf 6896 / 83
p0 1997 ± 1.566
2500
2400
2300
2200
2100
2000
1900
1800

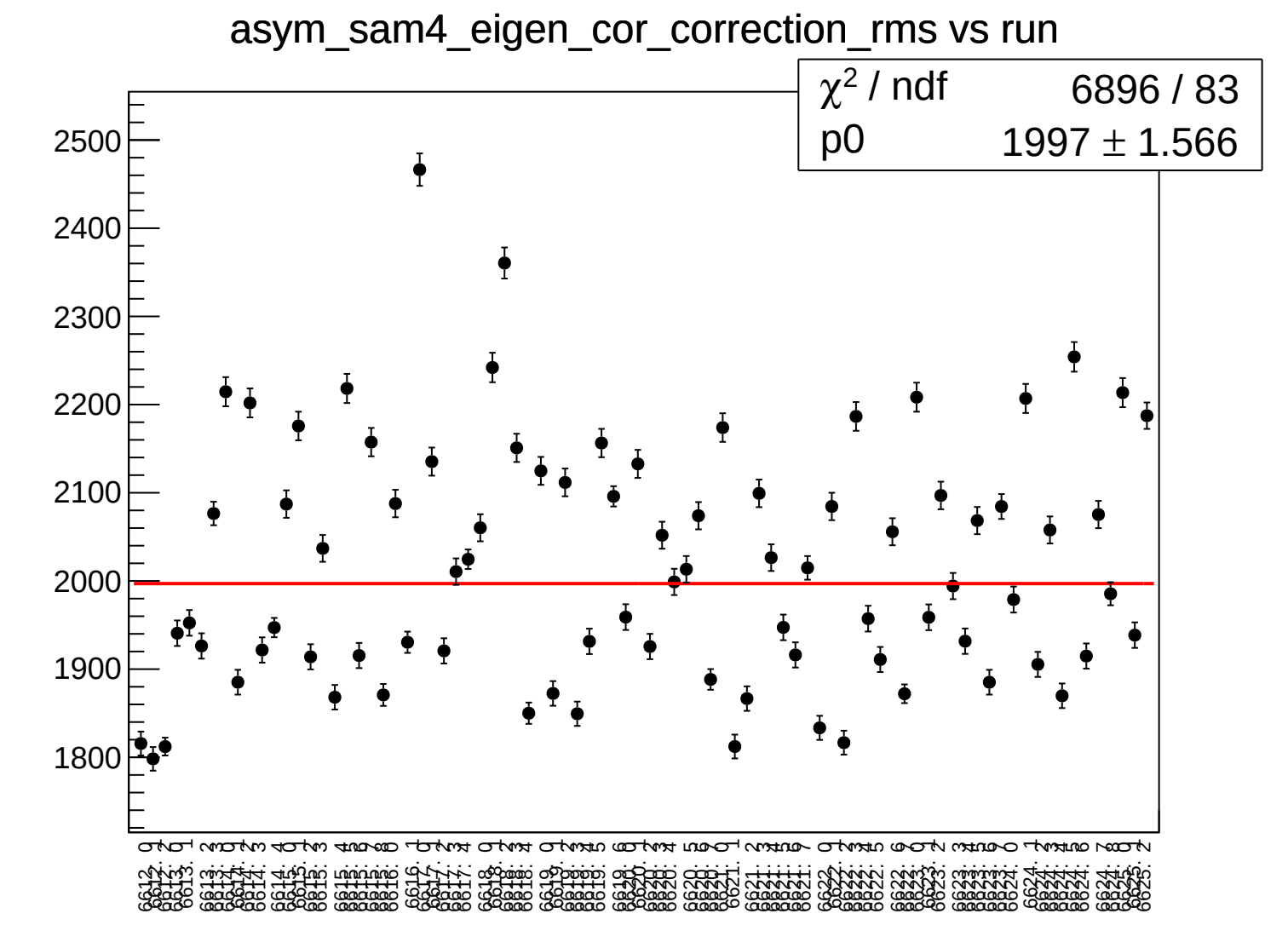

eigen_cor_asym_sam4_mean vs run
χ² / ndf 75.18 / 83
p0 385.7 ± 265.5
pull
Entries 84
Mean 55.56
Std Dev 50.81

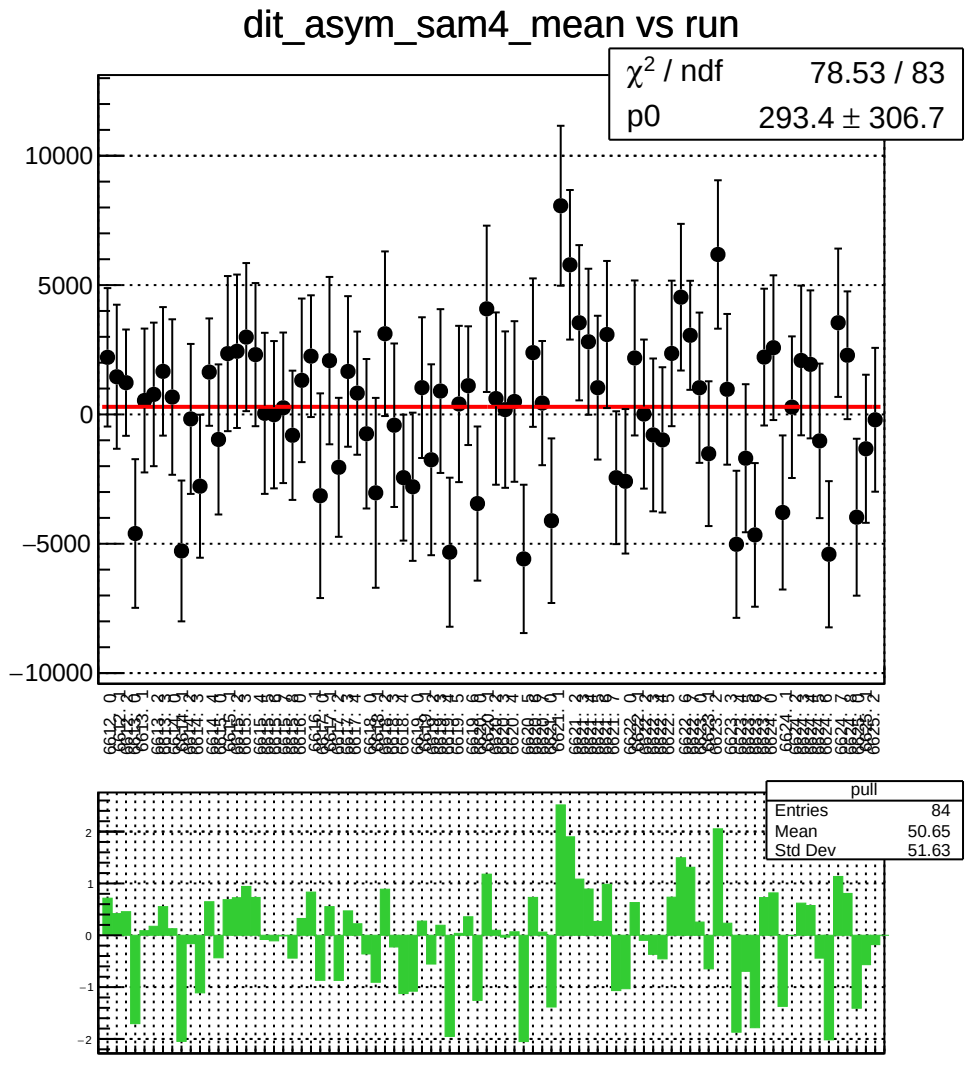

pull1D
Entries 84
Mean −0.01142
Std Dev 0.9459

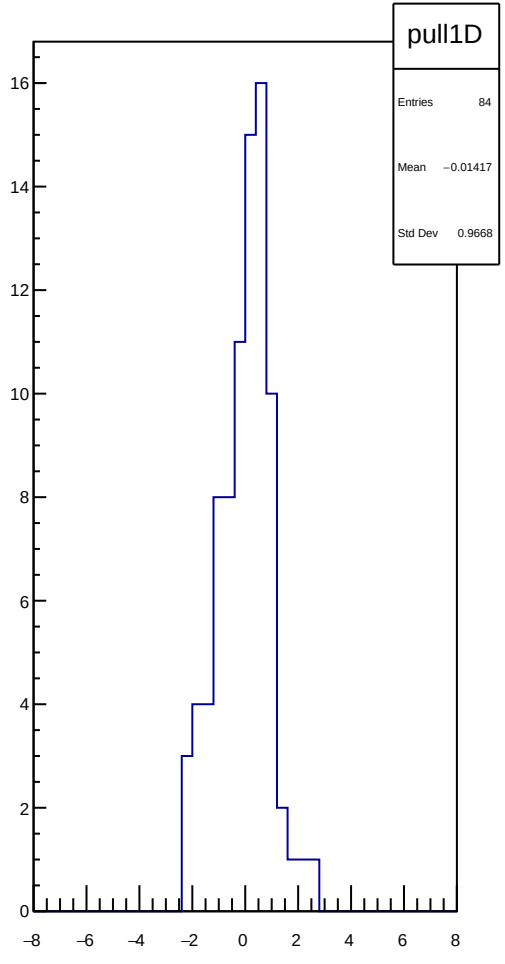

eigen_cor_asym_sam4_rms vs run
χ² / ndf 6878 / 83
p0 239.4 ± 0.1877
360
340
320
300
280
260
240
220

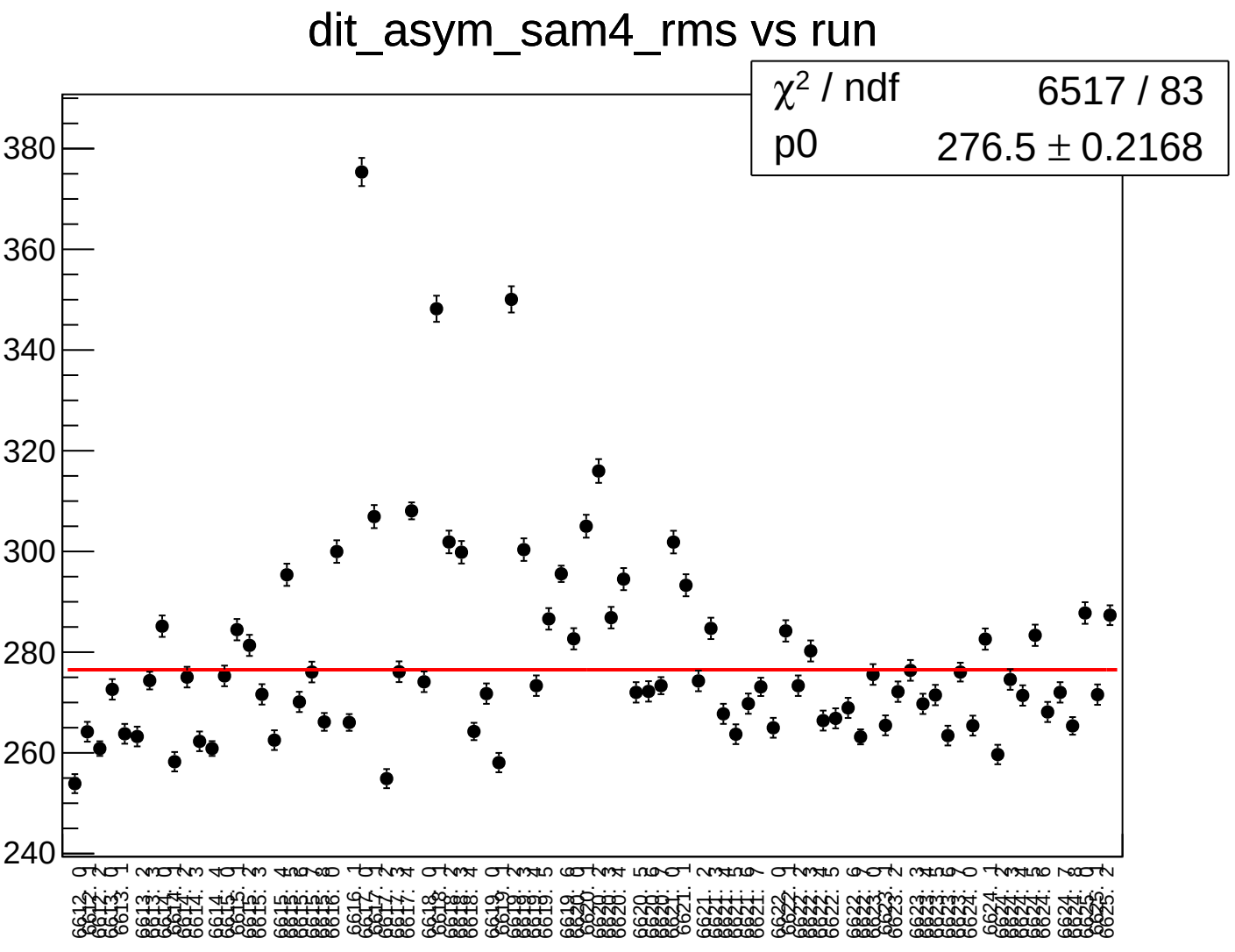

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 79.18 / 83
p0 −5251 ± 2215
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 52.46
Std Dev 0
2
1
0
−1
−2

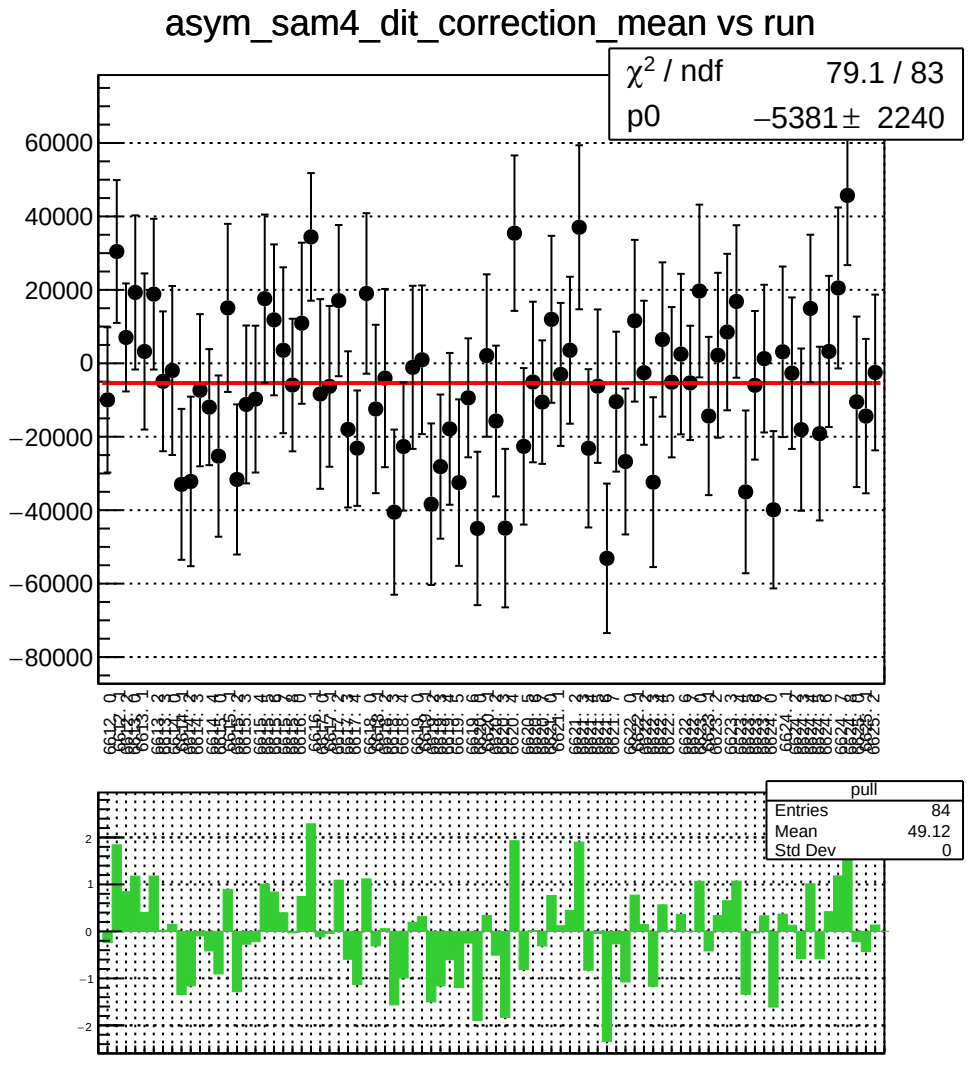

pull1D
Entries 84
Mean −0.004601
Std Dev 0.9709
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

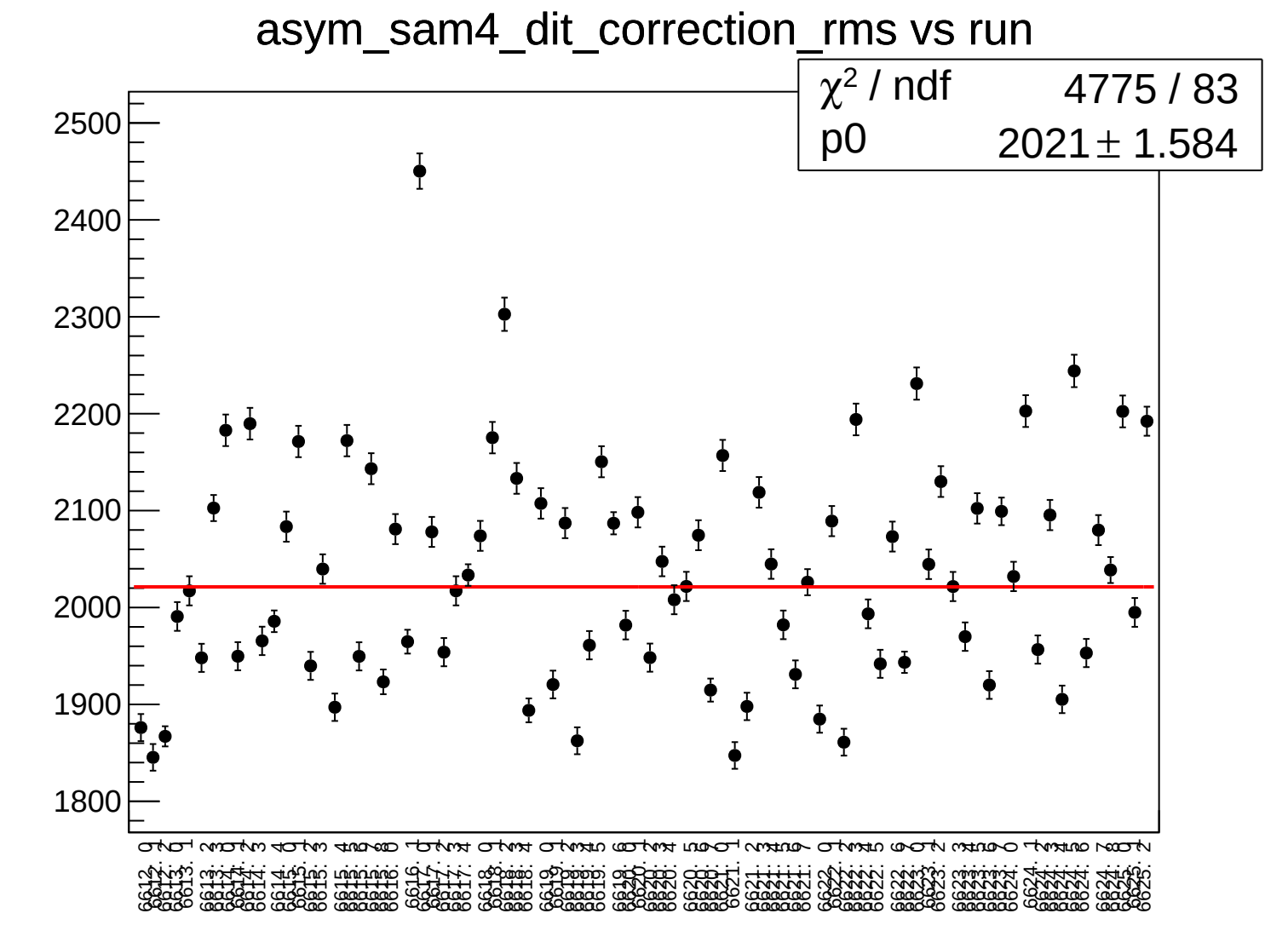

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 6896 / 83
p0 1997 ± 1.566
2500
2400
2300
2200
2100
2000
1900
1800

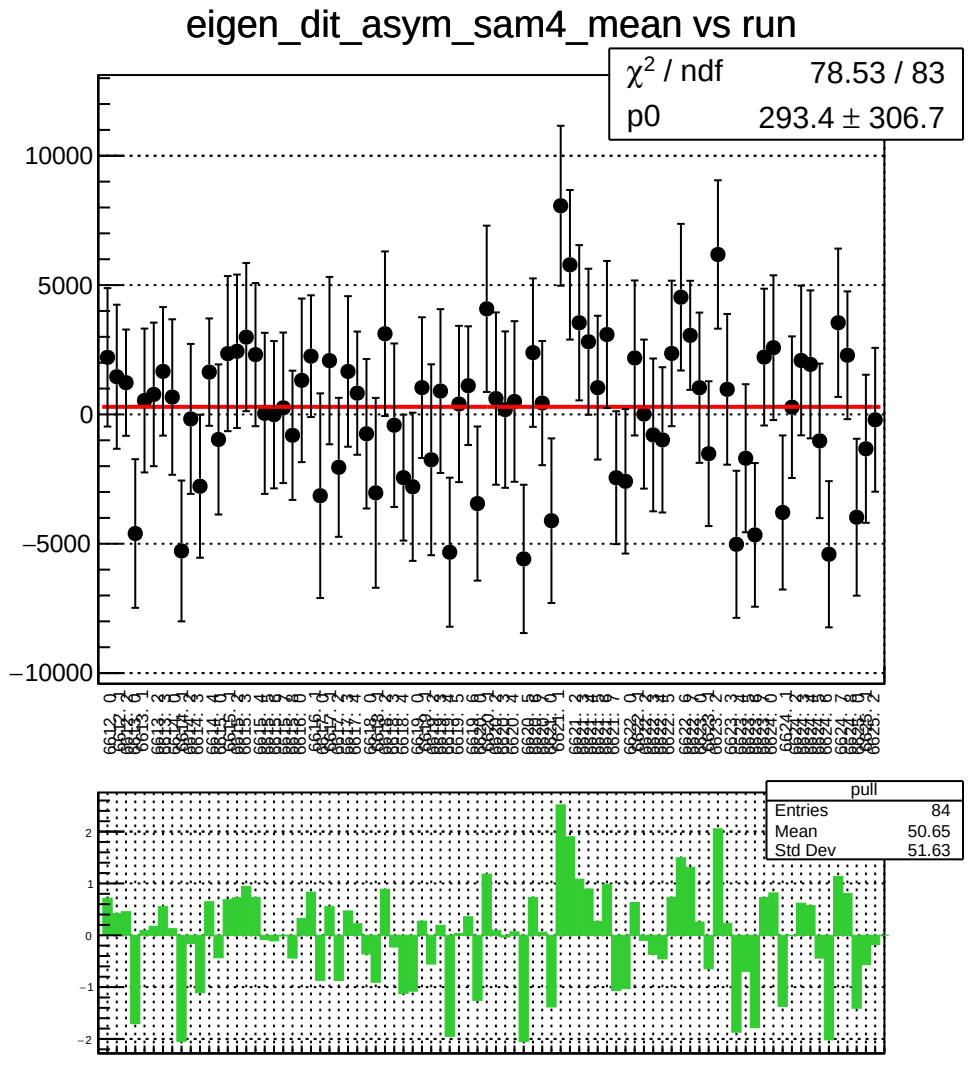

dit_asym_sam4_mean vs run
χ² / ndf 78.53 / 83
p0 293.4 ± 306.7
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 50.65
Std Dev 51.63
2
1
0
−1
−2

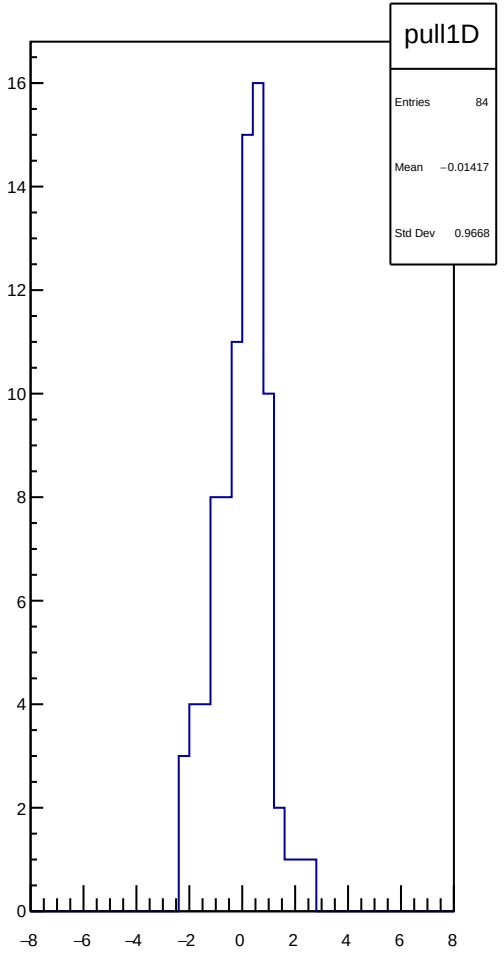

pull1D
Entries 84
Mean −0.01417
Std Dev 0.9668
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

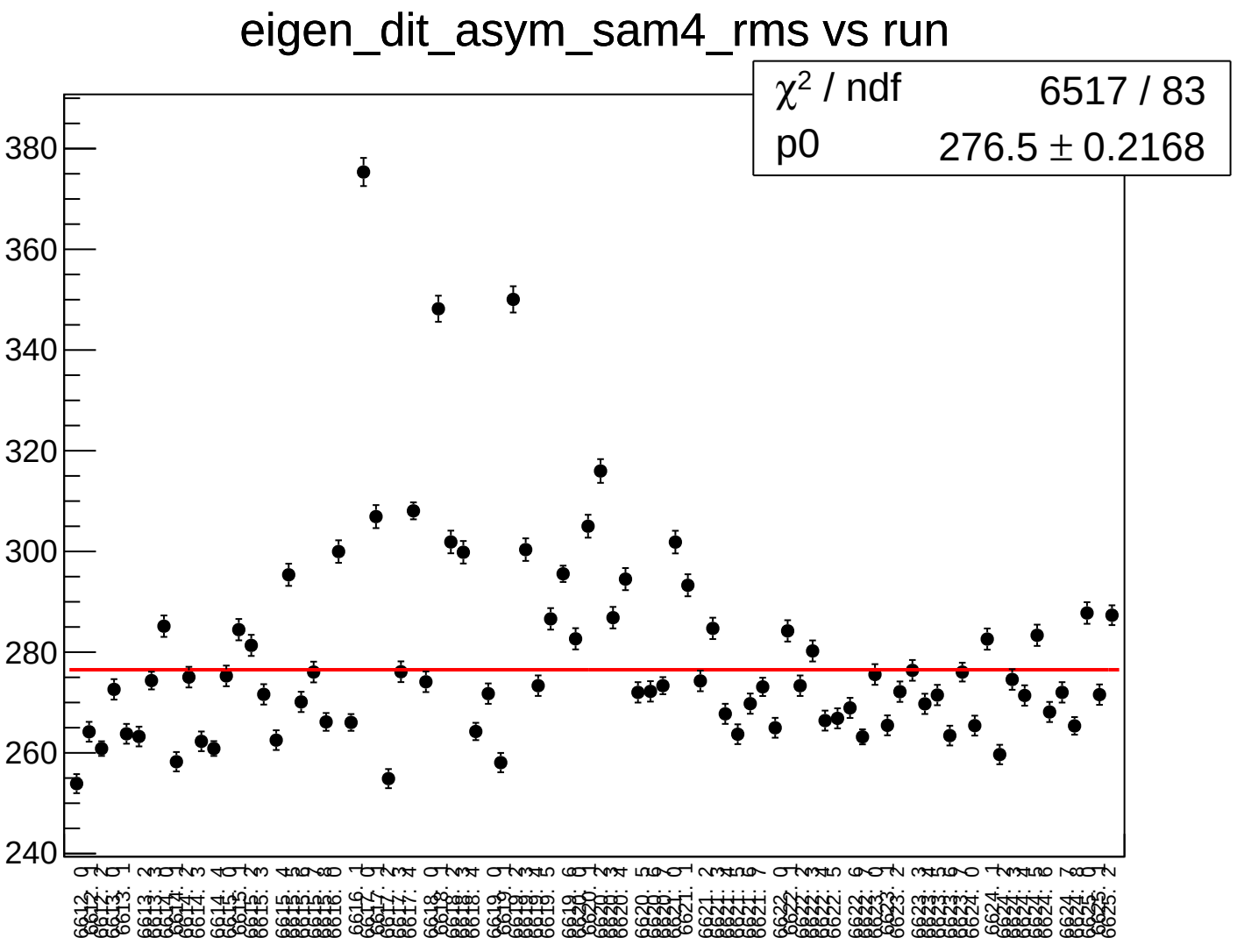

dit_asym_sam4_rms vs run
χ² / ndf 6517 / 83
p0 276.5 ± 0.2168
380
360
340
320
300
280
260
240

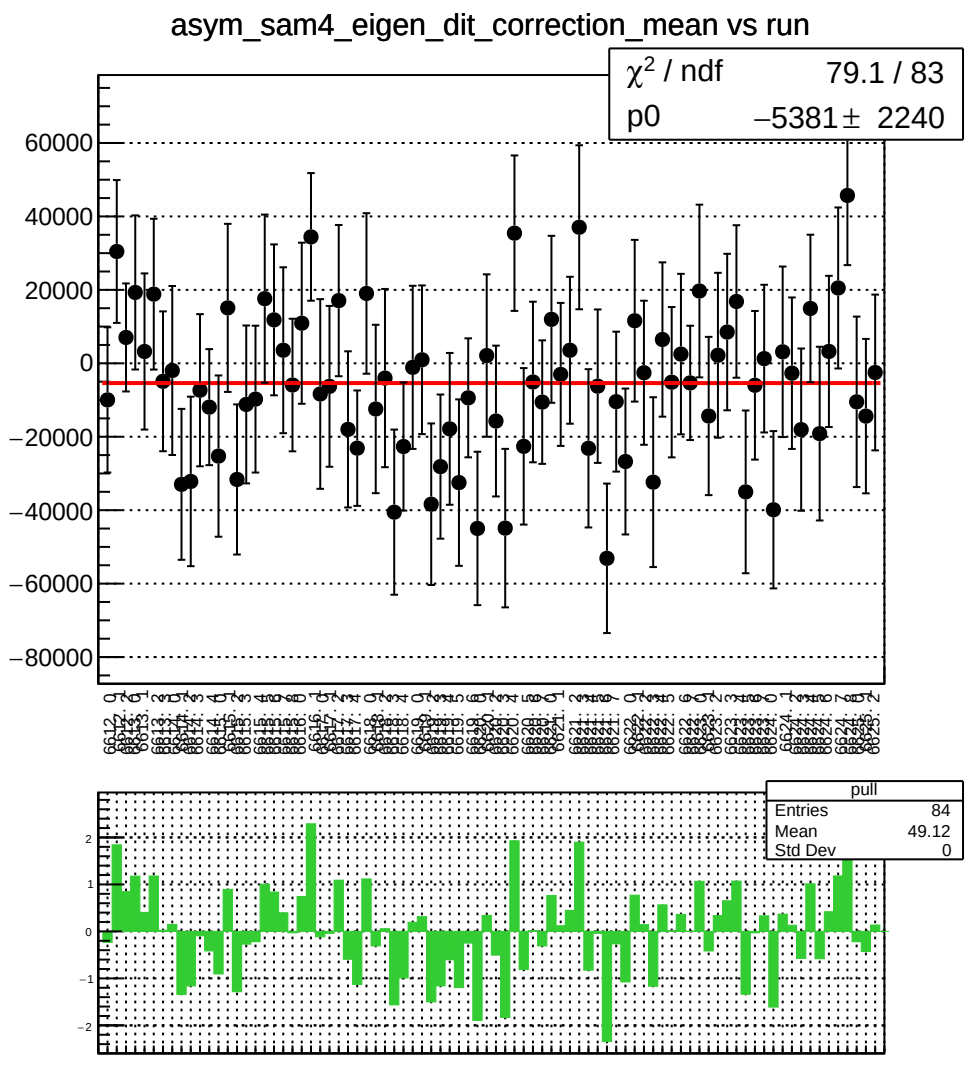

asym_sam4_dit_correction_mean vs run
χ² / ndf 79.1 / 83
p0 −5381 ± 2240
pull
Entries 84
Mean 49.12
Std Dev 0
pull1D
Entries 84
Mean −0.004082
Std Dev 0.9704

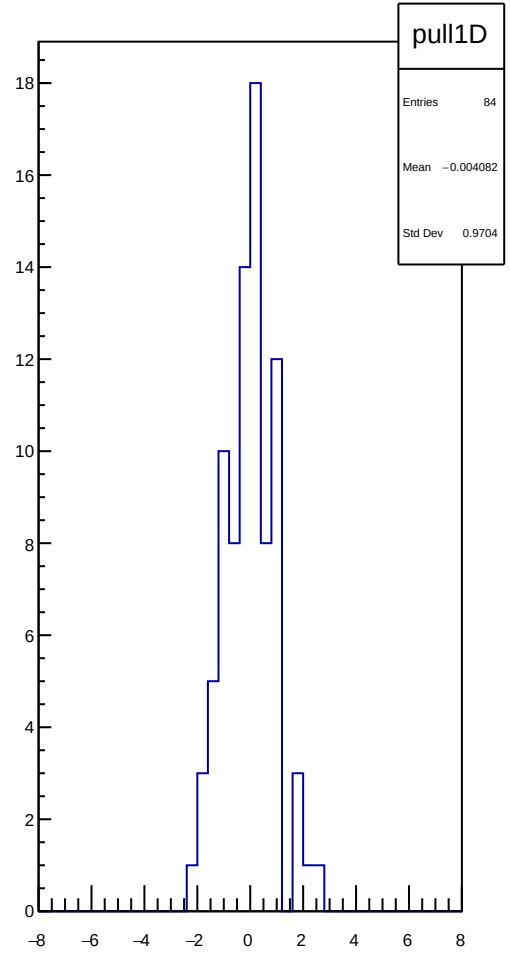

asym_sam4_dit_correction_rms vs run
χ² / ndf 4775 / 83
p0 2021 ± 1.584
2500
2400
2300
2200
2100
2000
1900
1800

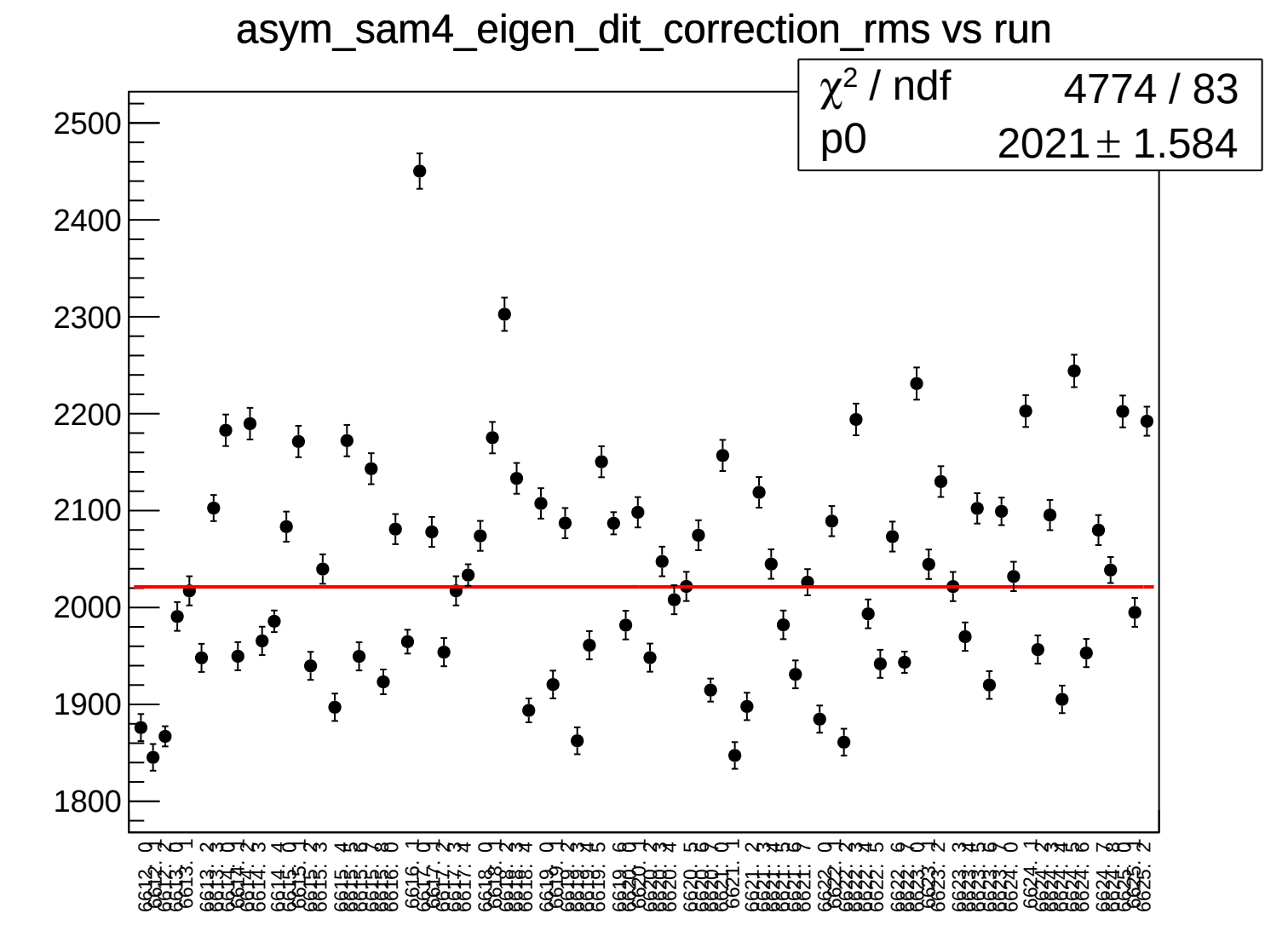

eigen_dit_asym_sam4_mean vs run
χ² / ndf 78.53 / 83
p0 293.4 ± 306.7
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 50.65
Std Dev 51.63
2
1
0
−1
−2

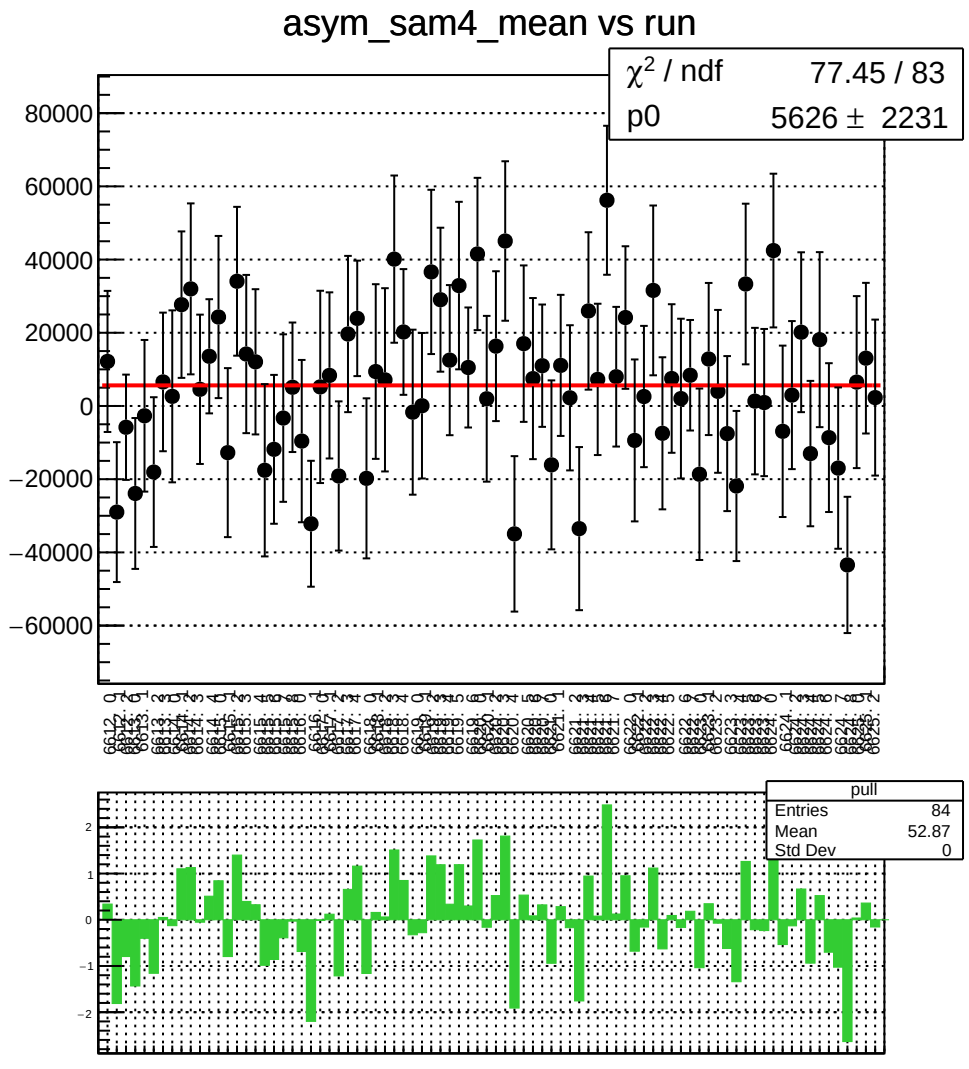

pull1D
Entries 84
Mean −0.01417
Std Dev 0.9668
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

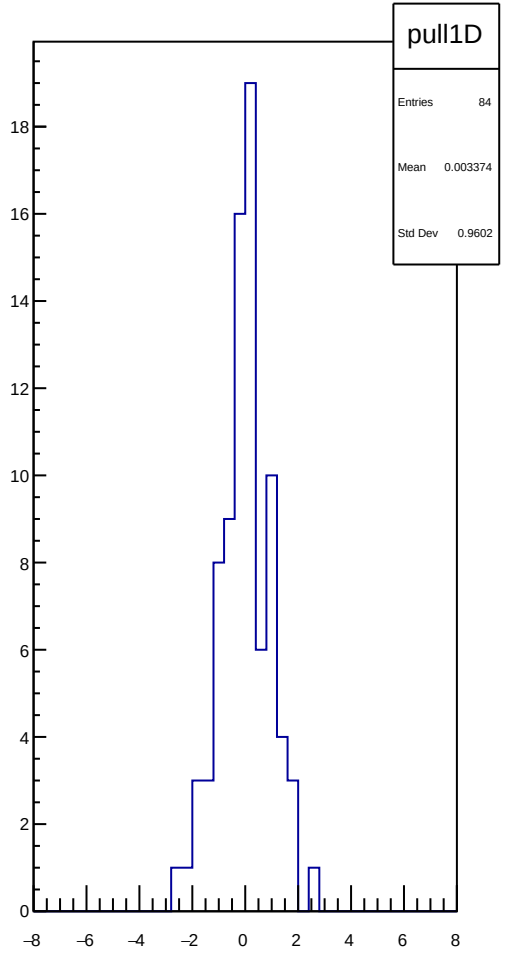

eigen_dit_asym_sam4_rms vs run
χ² / ndf 6517 / 83
p0 276.5 ± 0.2168
380
360
340
320
300
280
260
240

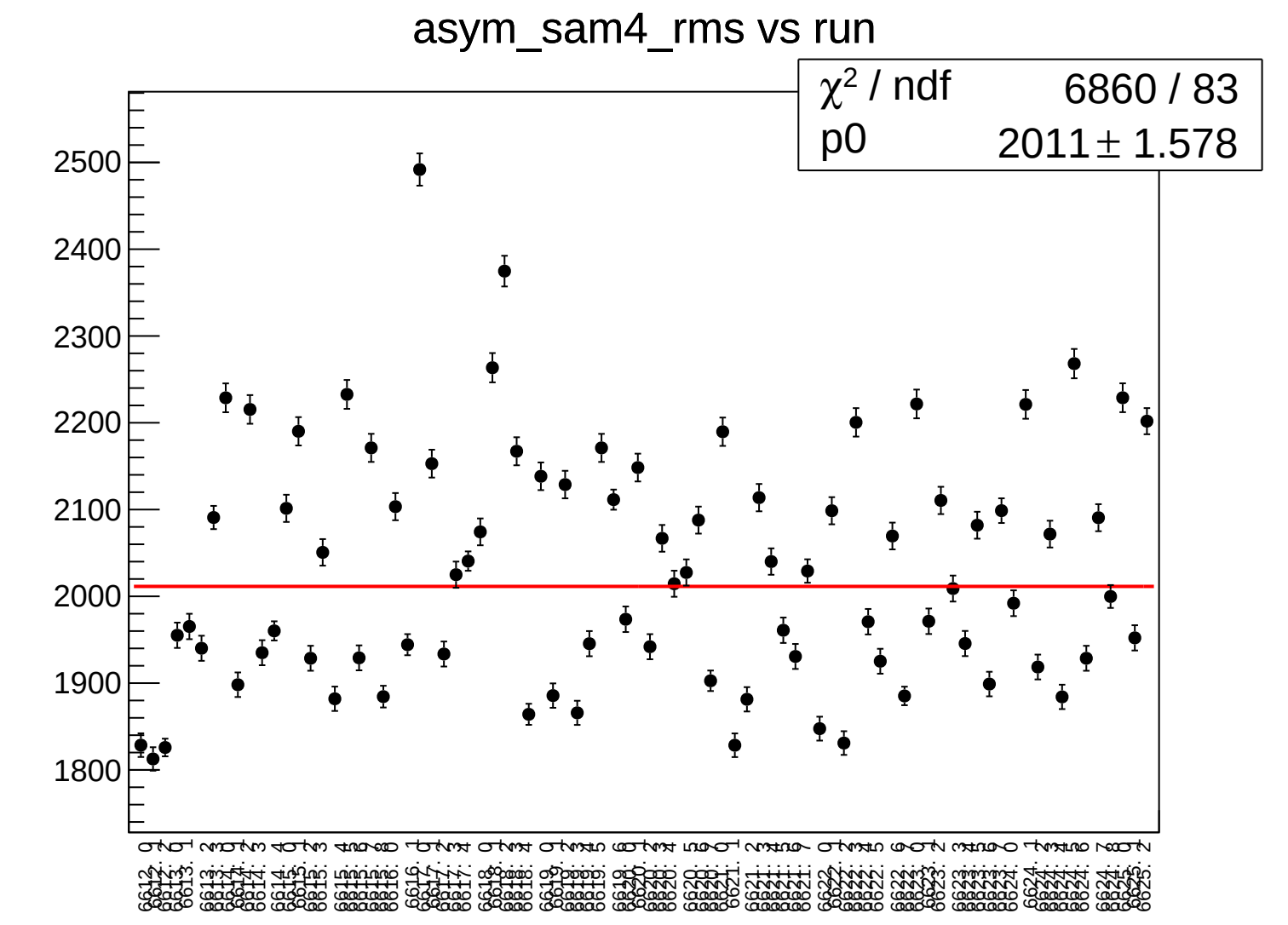

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 79.1 / 83
p0 −5381 ± 2240
pull
Entries 84
Mean 49.12
Std Dev 0

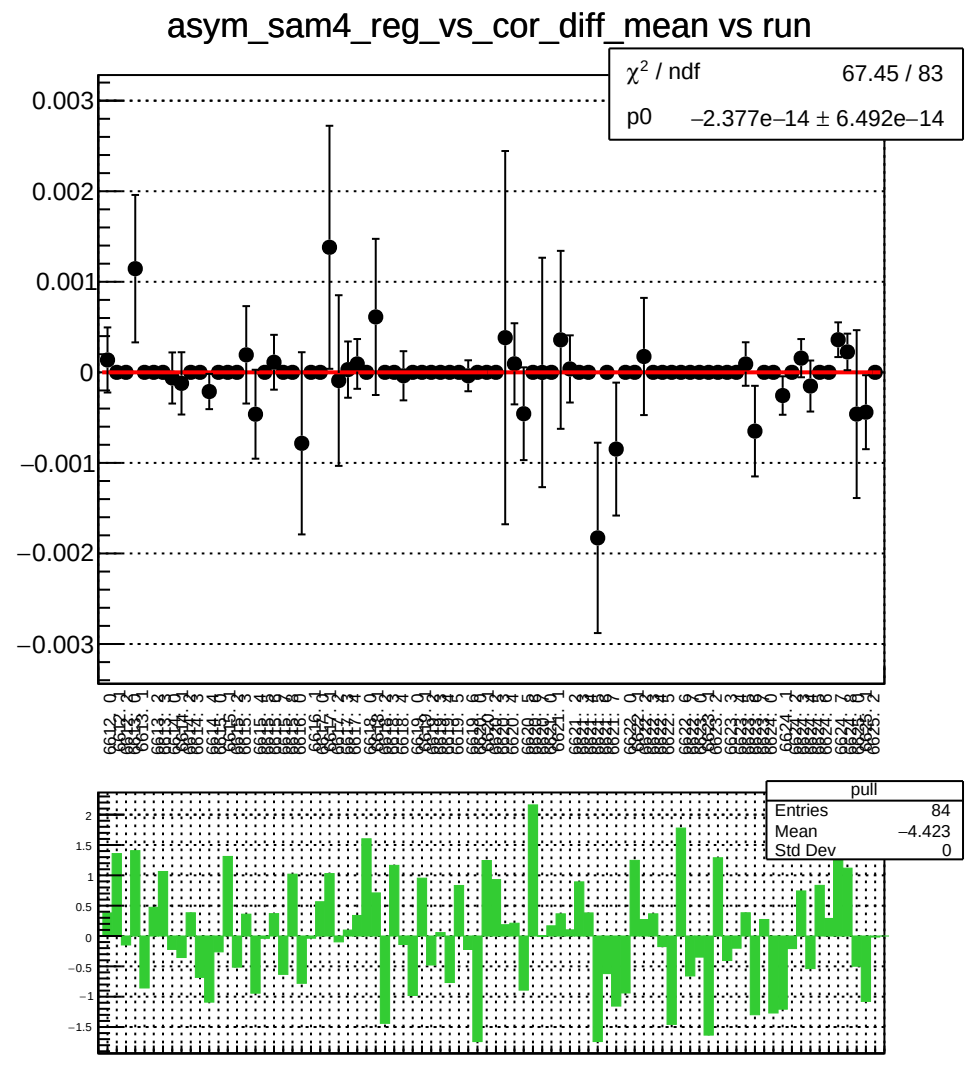

pull1D
Entries 84
Mean −0.004082
Std Dev 0.9704

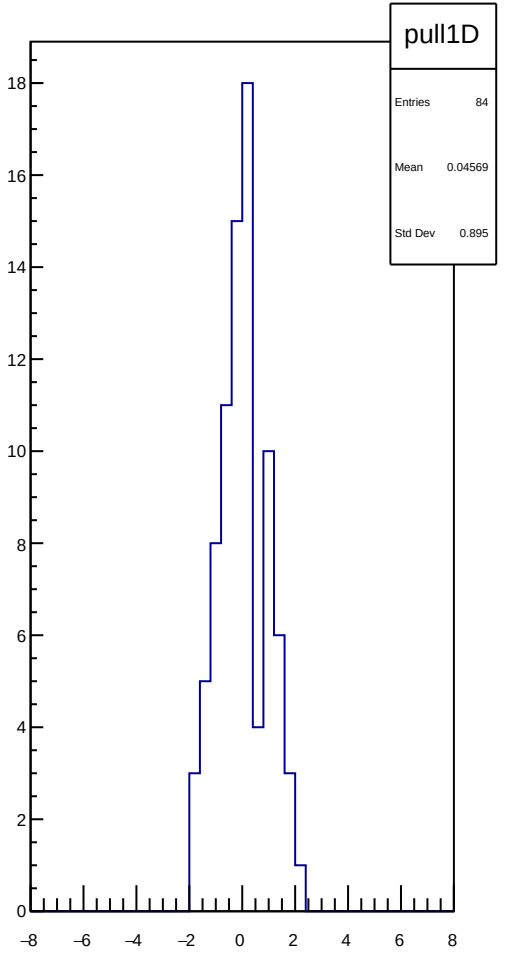

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 4774 / 83
p0 2021 ± 1.584
2500
2400
2300
2200
2100
2000
1900
1800

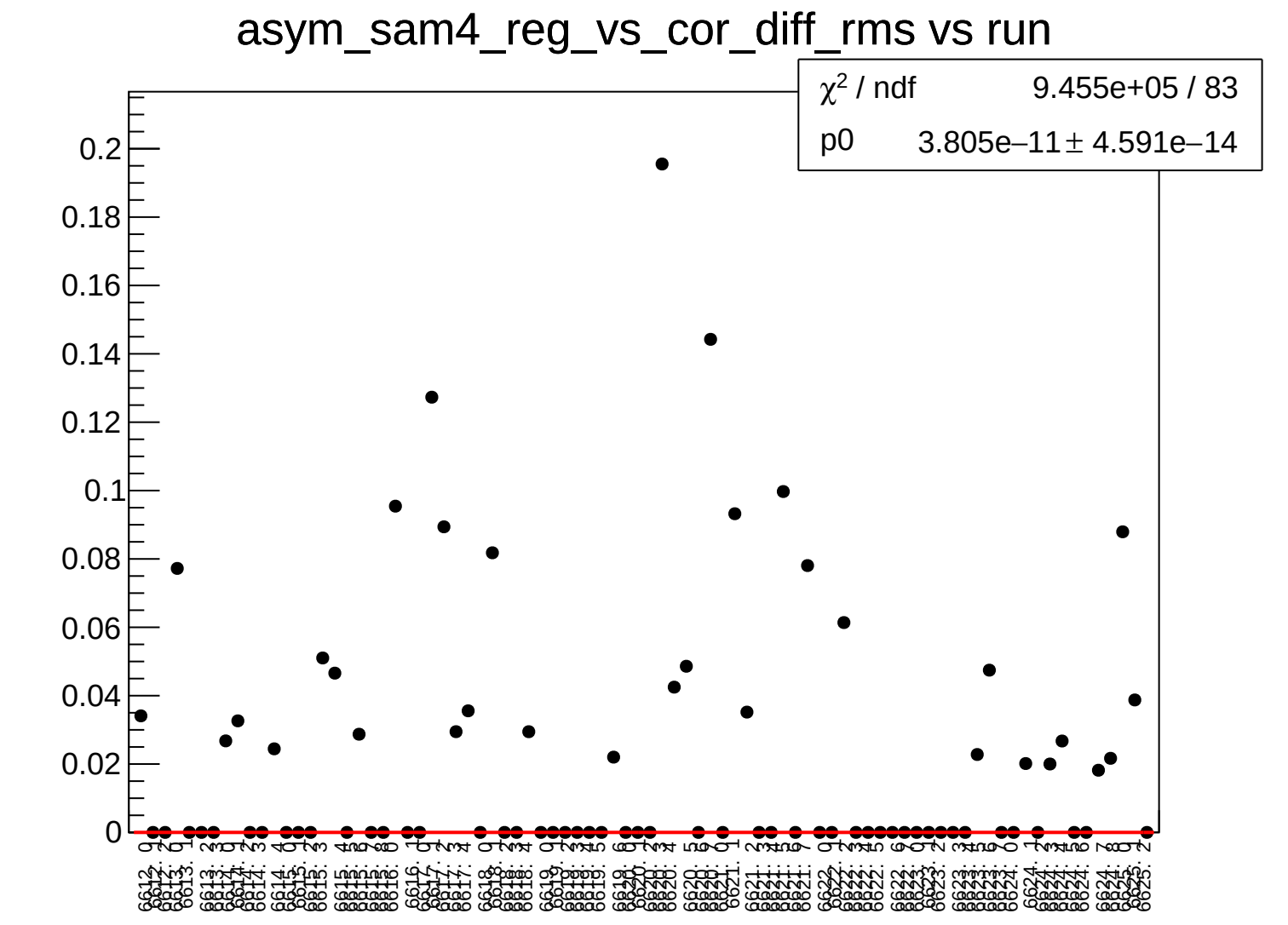

asym_sam4_mean vs run
χ^2 / ndf 77.45 / 83
p0 5626 ± 2231
pull
Entries 84
Mean 52.87
Std Dev 0

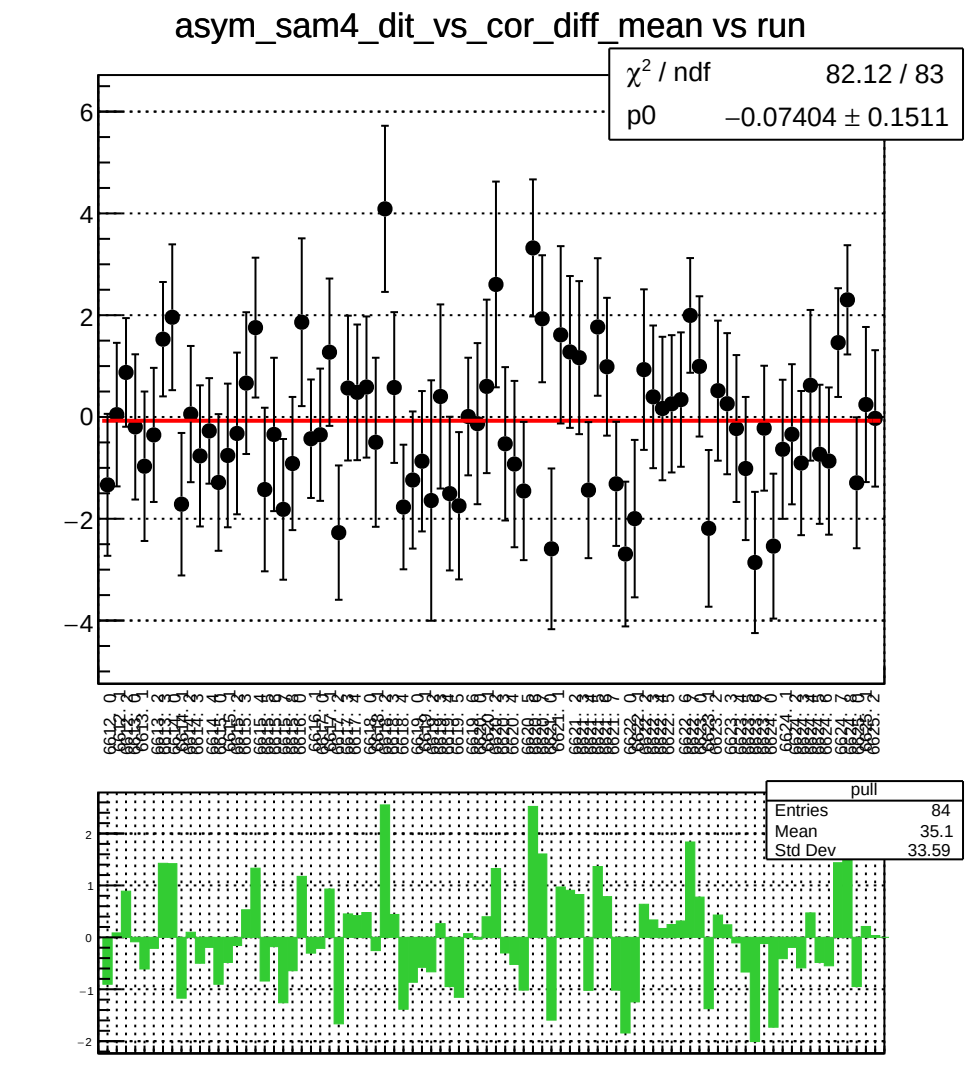

pull1D
Entries 84
Mean 0.003374
Std Dev 0.9602

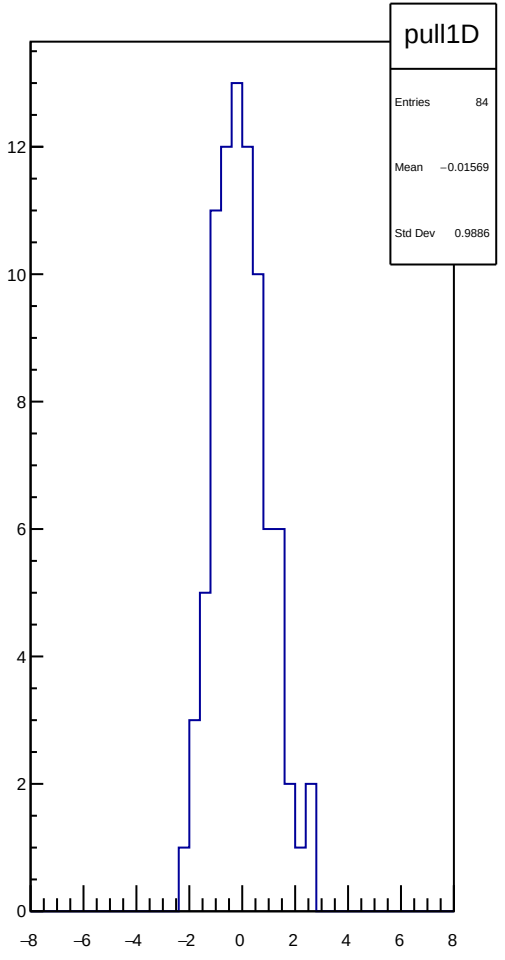

asym_sam4_rms vs run
χ² / ndf 6860 / 83
p0 2011 ± 1.578
2500
2400
2300
2200
2100
2000
1900
1800

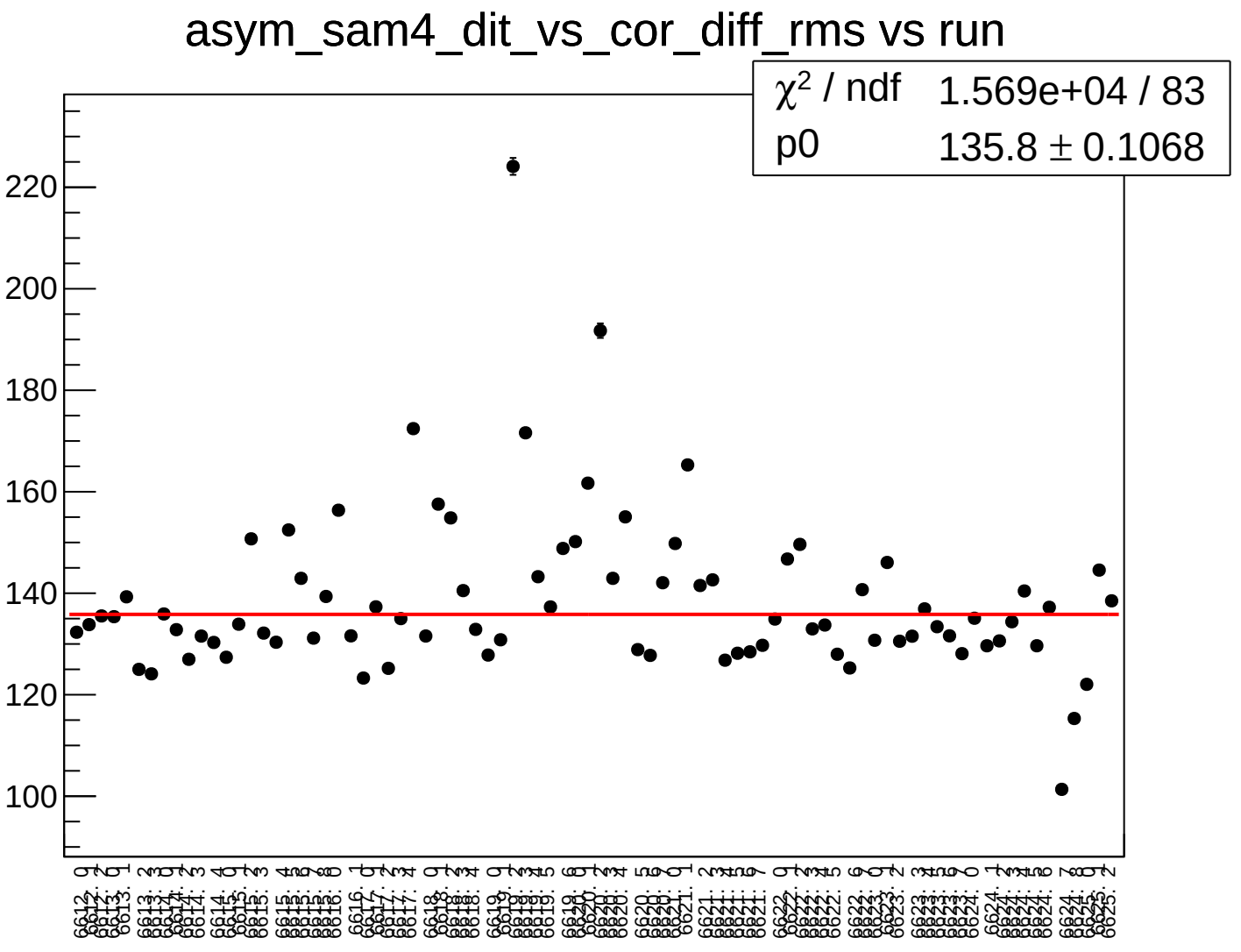

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 67.45 / 83
p0 −2.377e−14 ± 6.492e−14
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 84
Mean −4.423
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

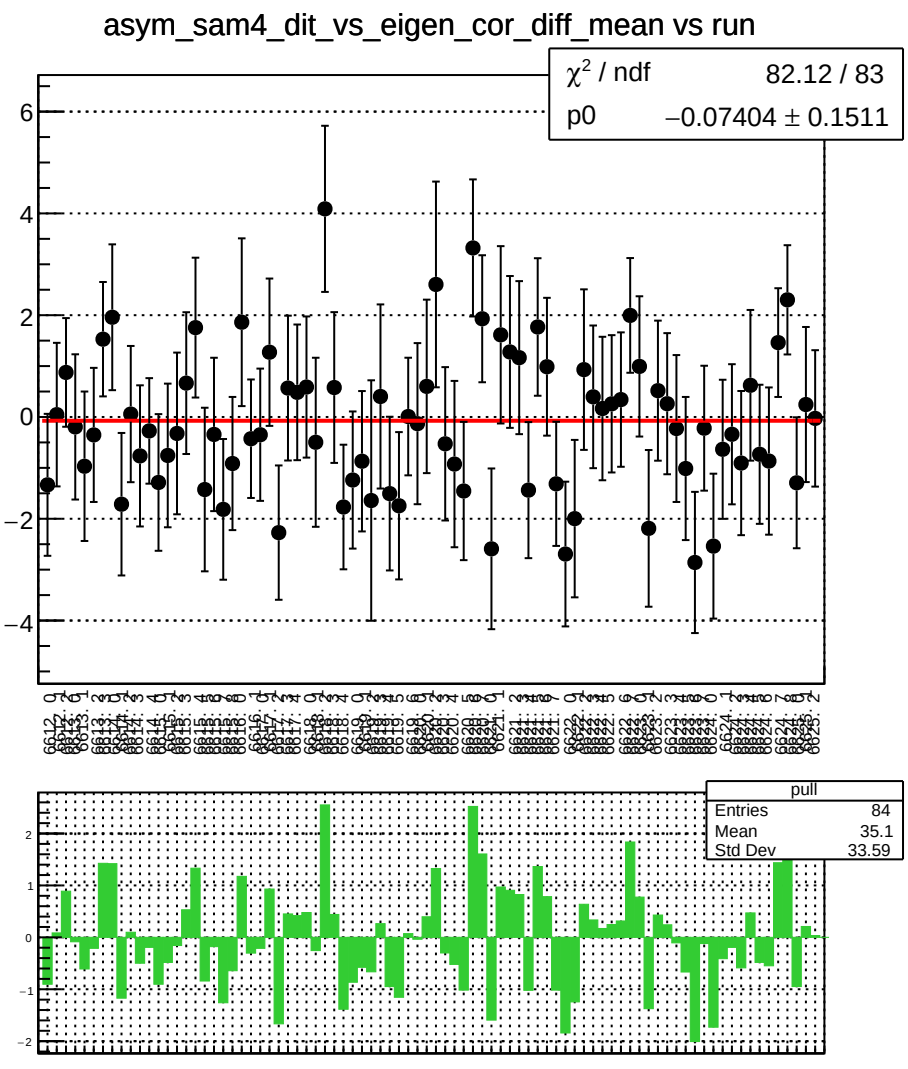

pull1D
Entries 84
Mean 0.04569
Std Dev 0.895
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

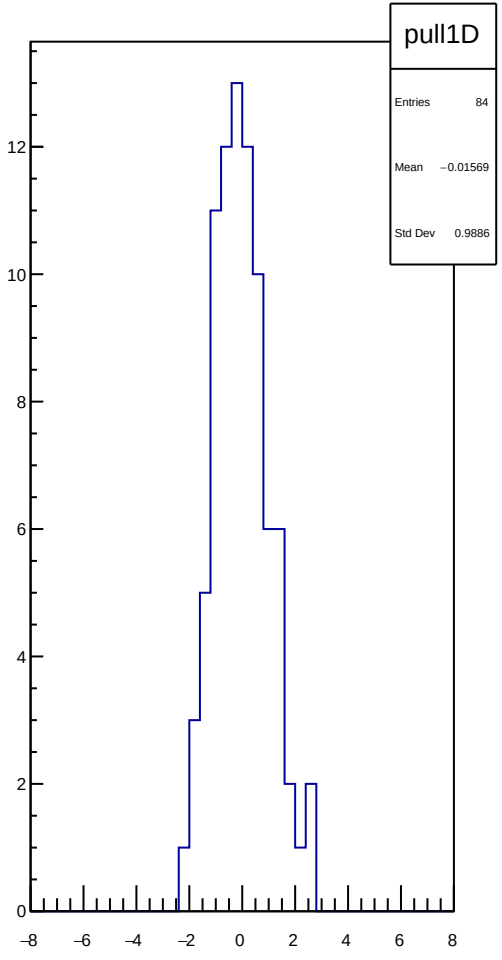

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 9.455e+05 / 83
p0 3.805e−11 ± 4.591e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

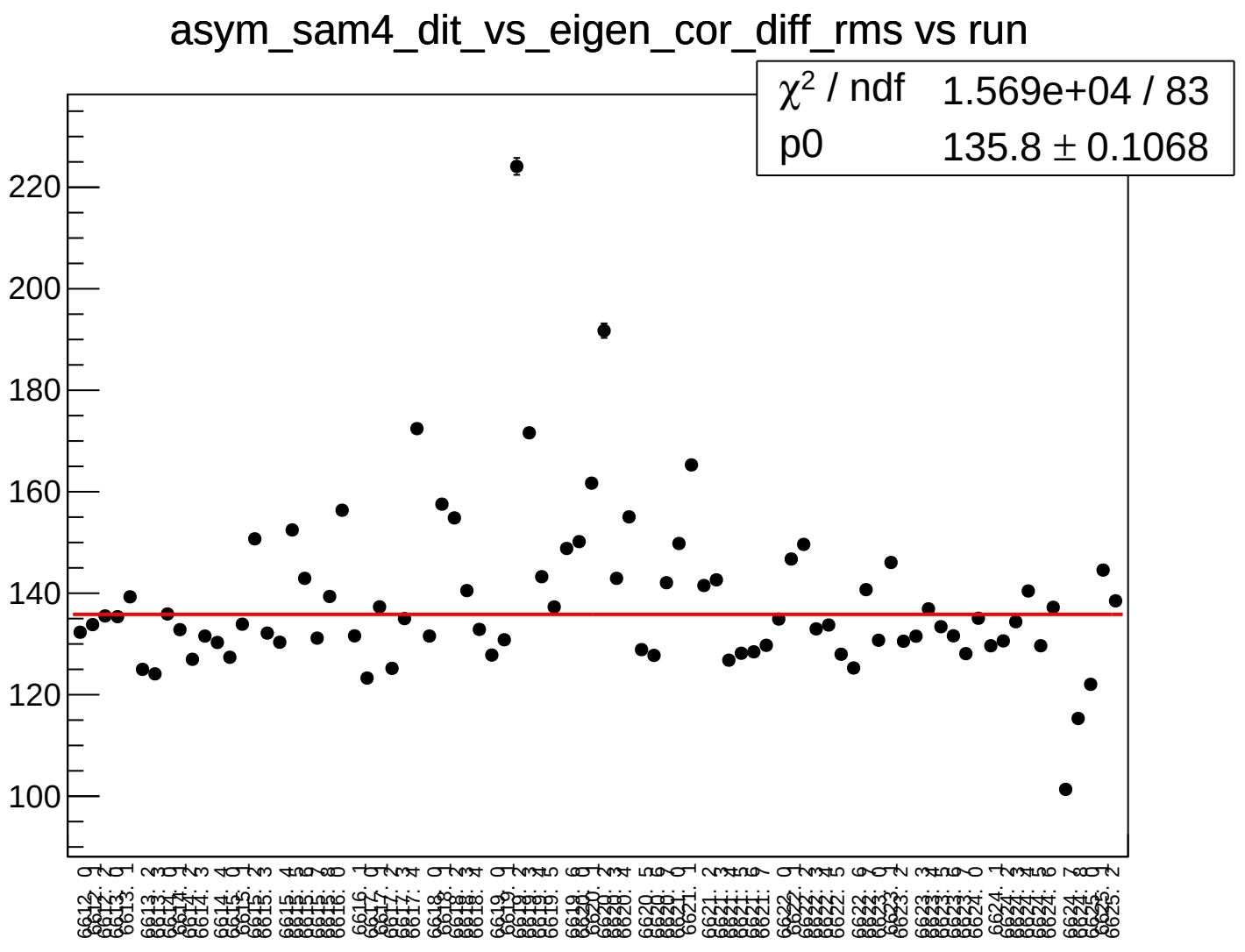

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 82.12 / 83
p0 −0.07404 ± 0.1511
pull
Entries 84
Mean 35.1
Std Dev 33.59

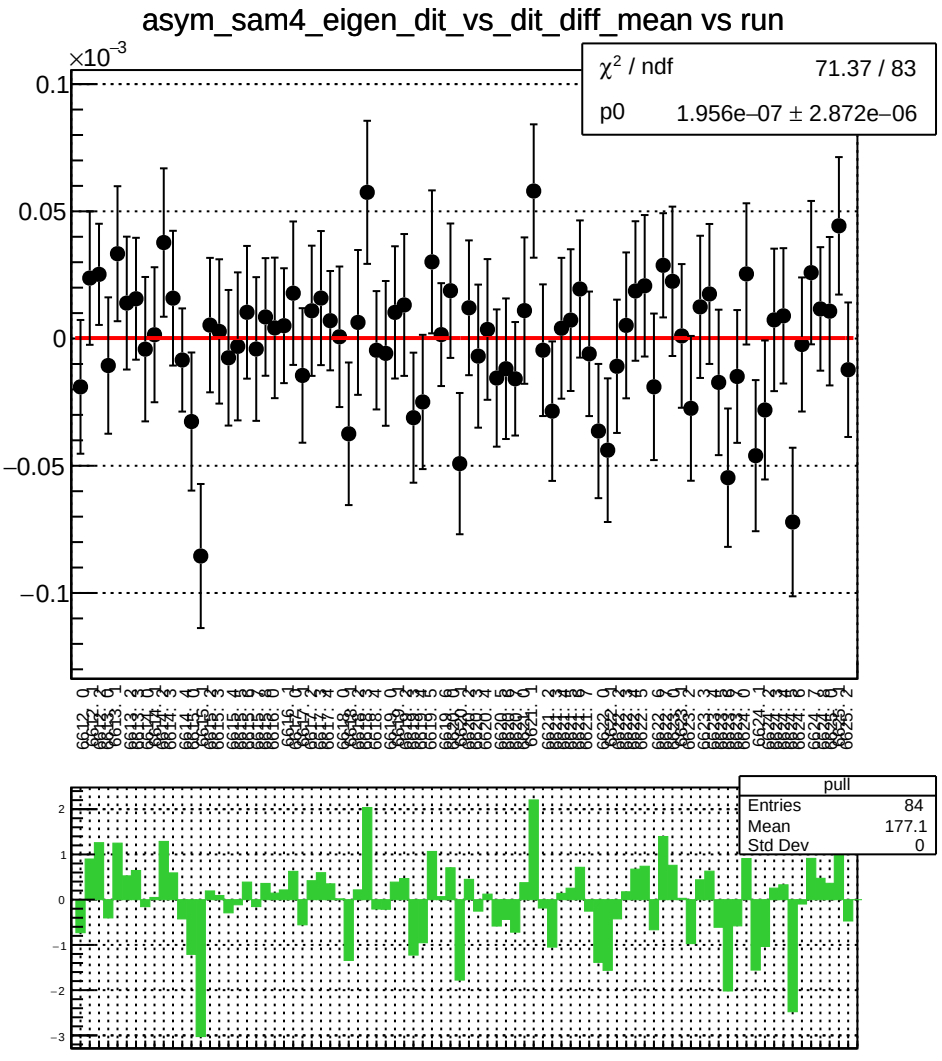

pull1D
Entries 84
Mean −0.01569
Std Dev 0.9886

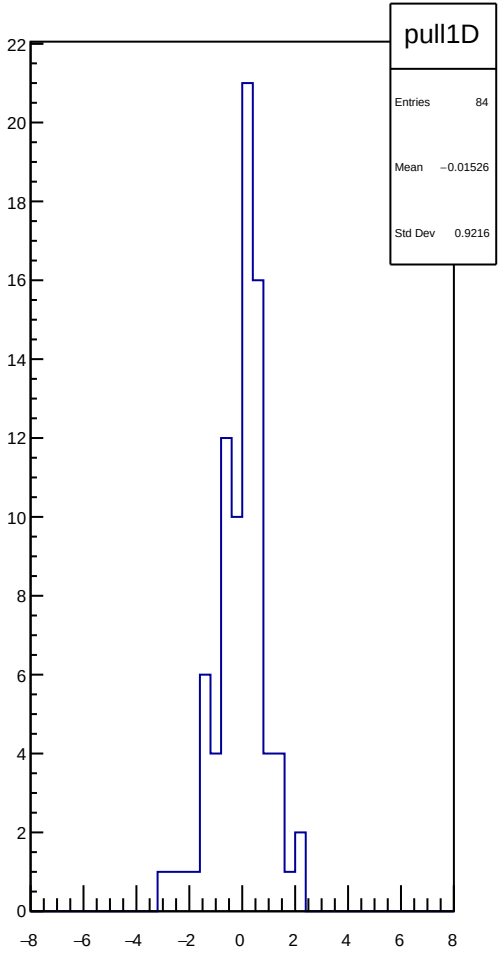

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 1.569e+04 / 83
p0 135.8 ± 0.1068
220
200
180
160
140
120
100

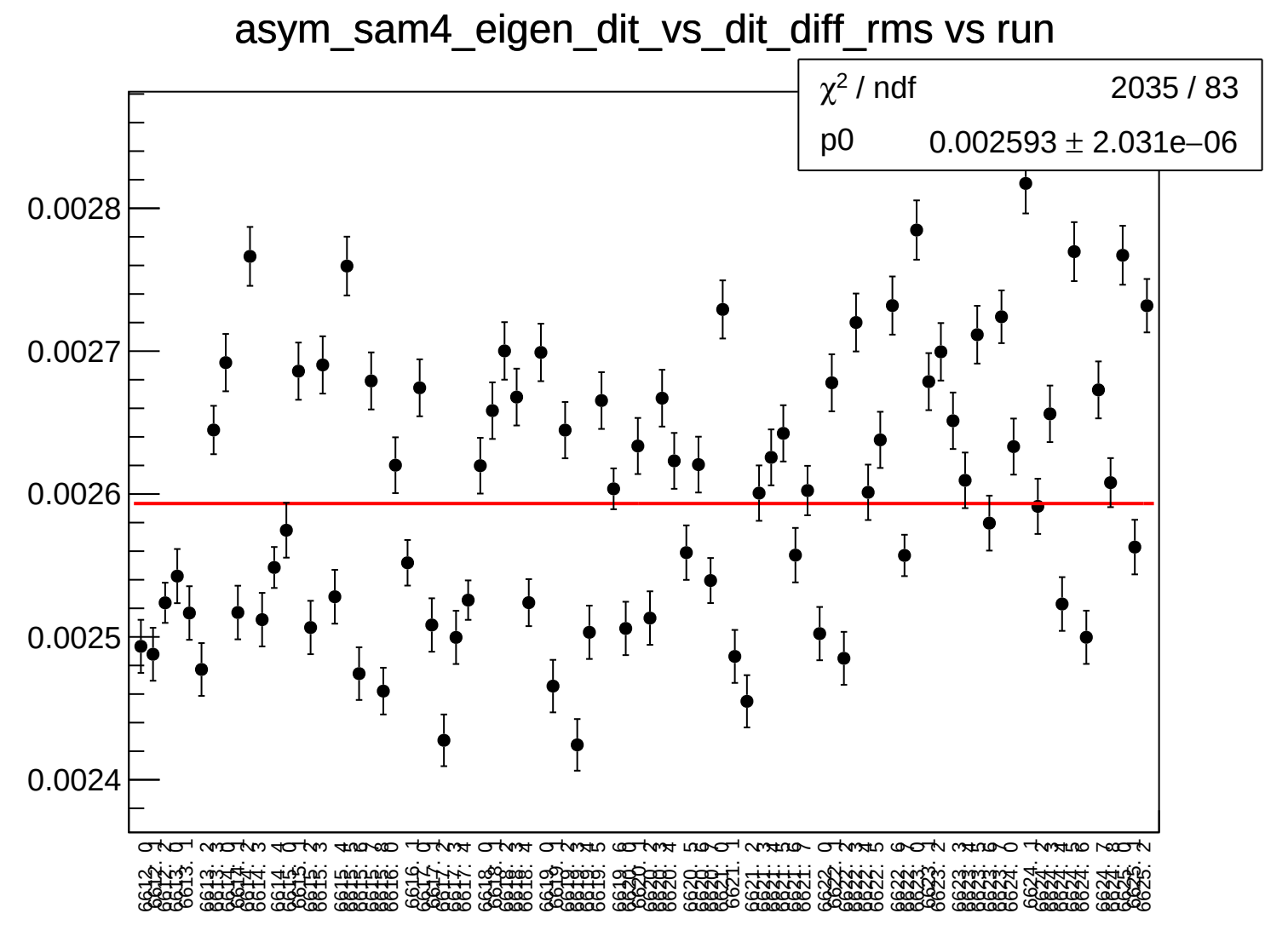

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.12 / 83
p0 −0.07404 ± 0.1511
pull
Entries 84
Mean 35.1
Std Dev 33.59

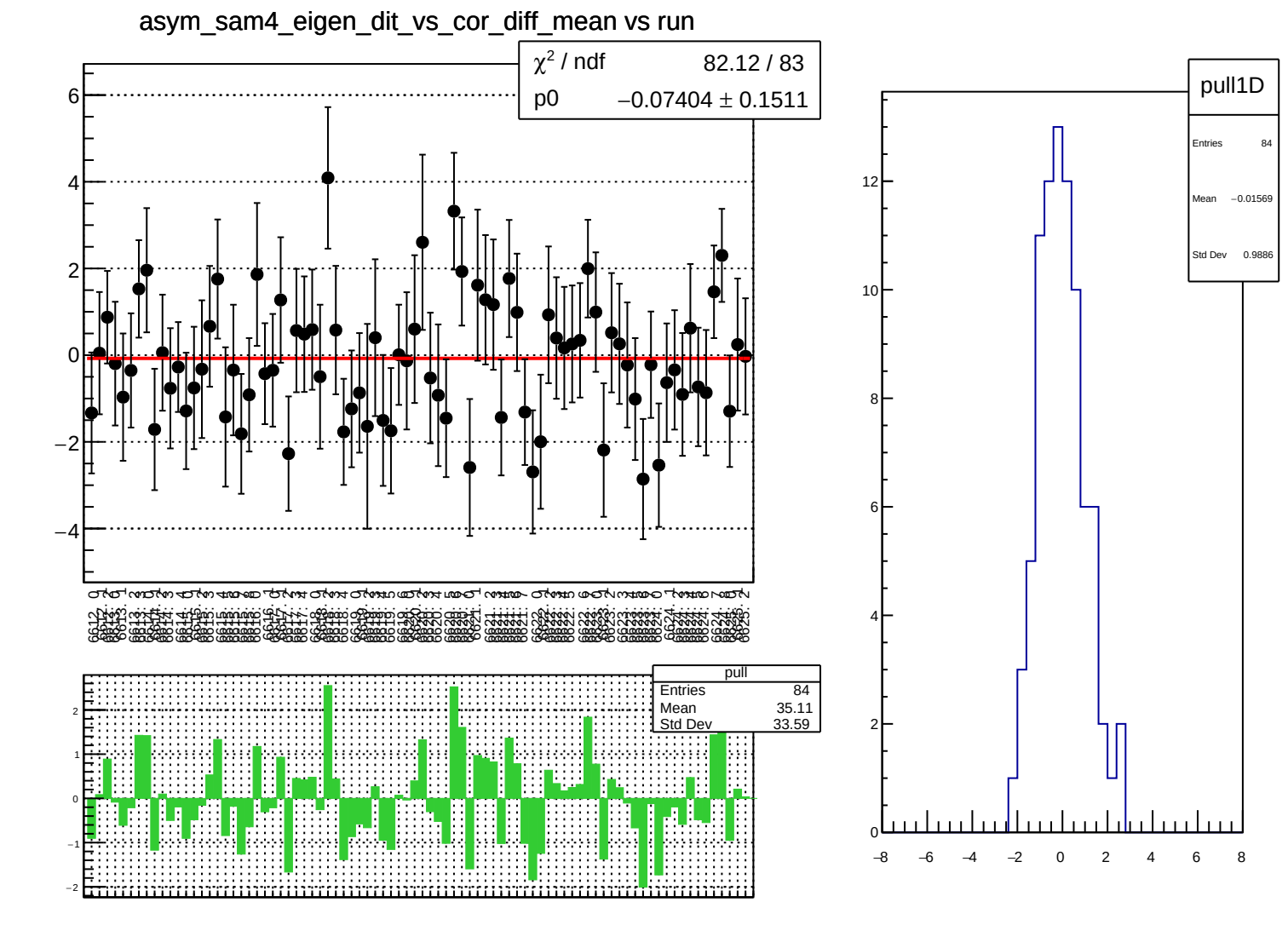

pull1D
Entries 84
Mean −0.01569
Std Dev 0.9886

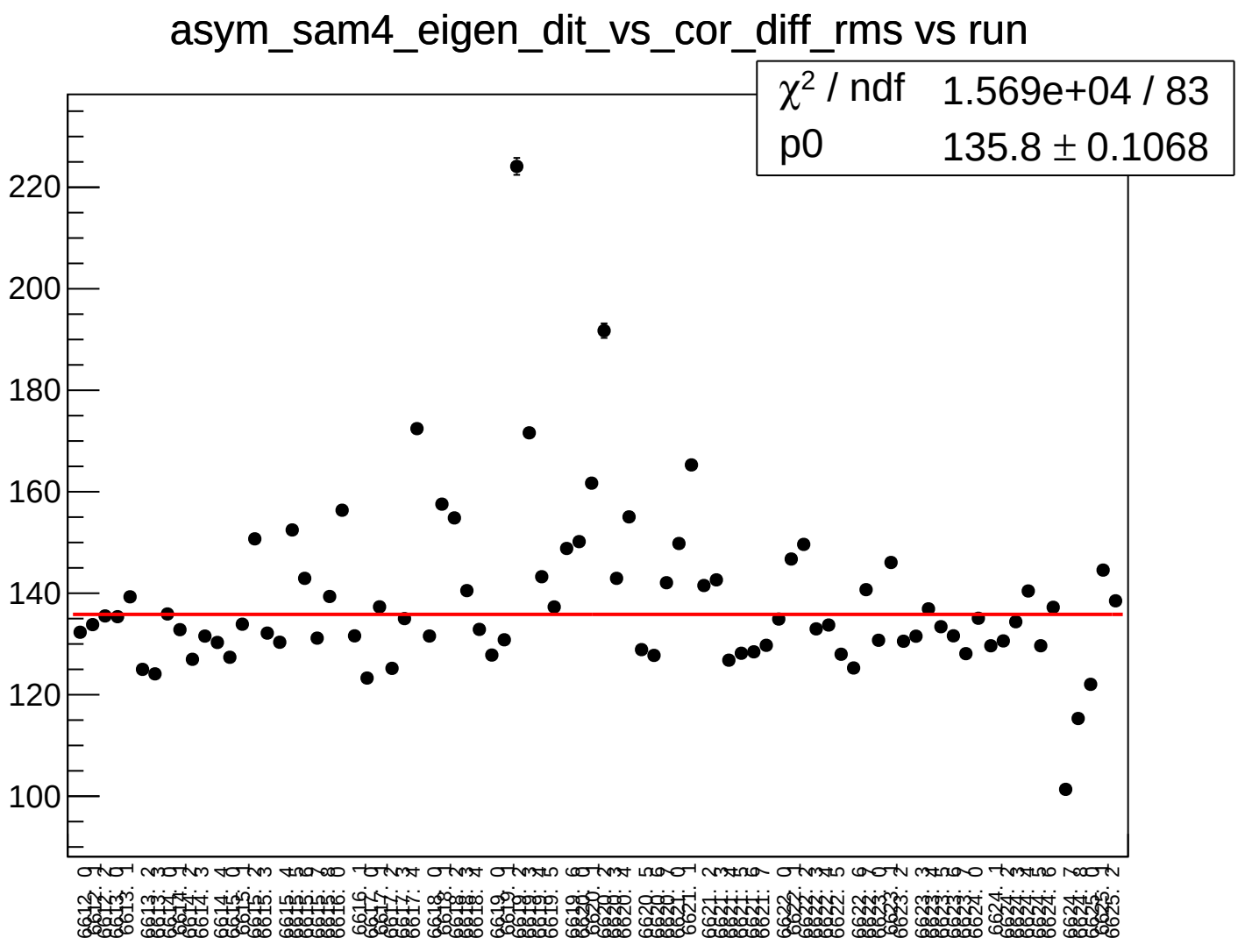

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.569e+04 / 83
p0 135.8 ± 0.1068
220
200
180
160
140
120
100

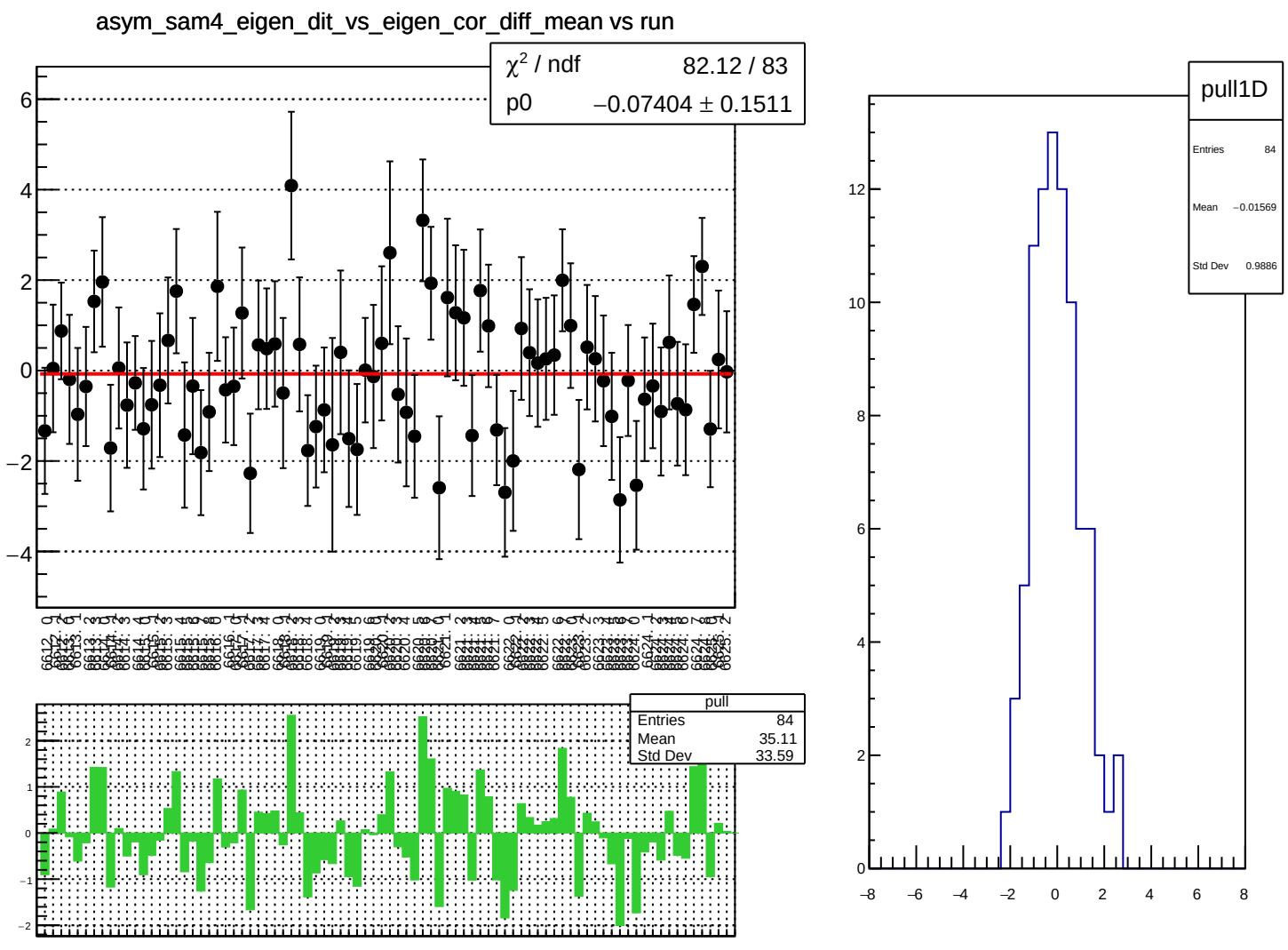

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.37 / 83
p0 1.956e−07 ± 2.872e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean 177.1
Std Dev 0
2
1
0
−1
−2
−3

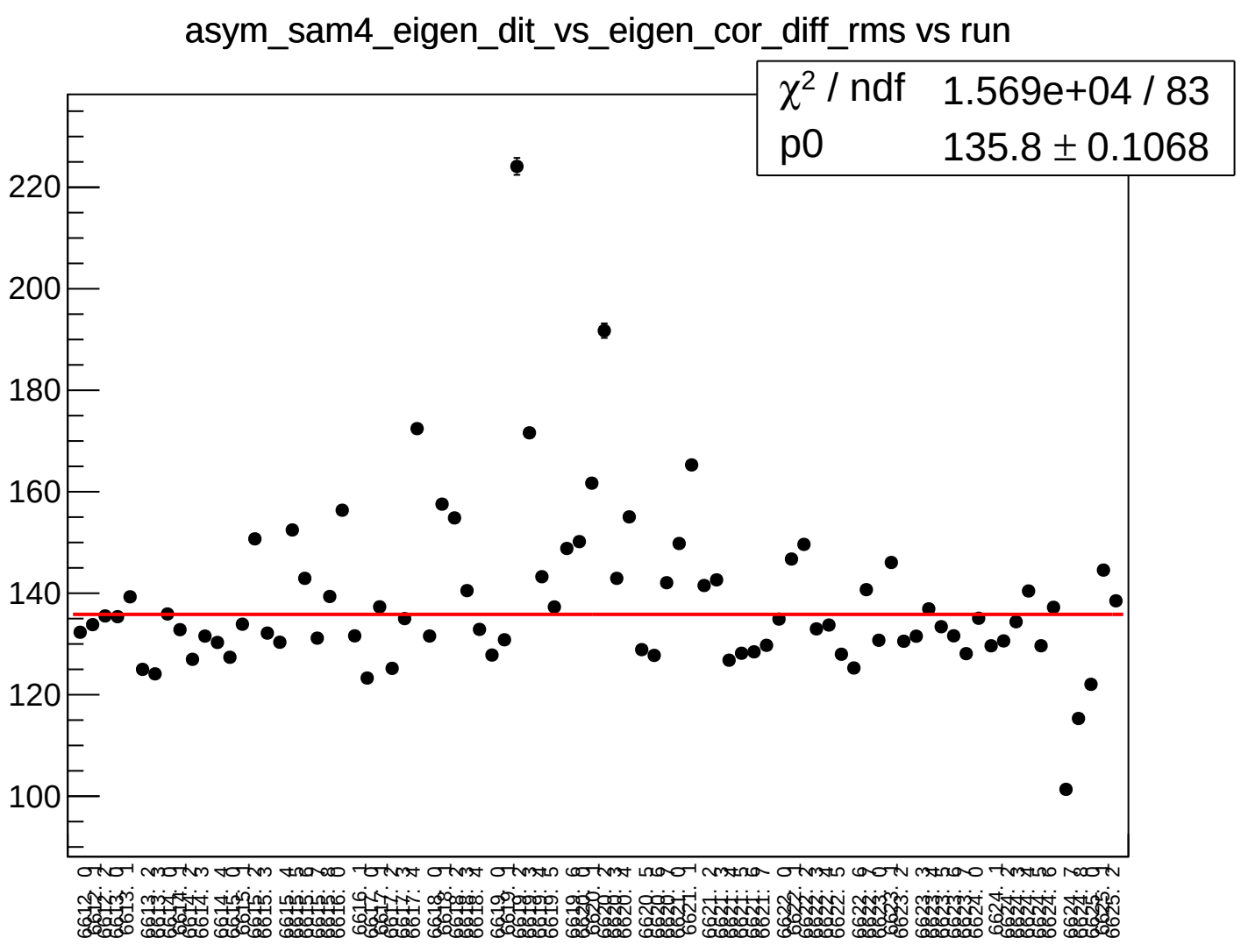

pull1D
Entries 84
Mean −0.01526
Std Dev 0.9216
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

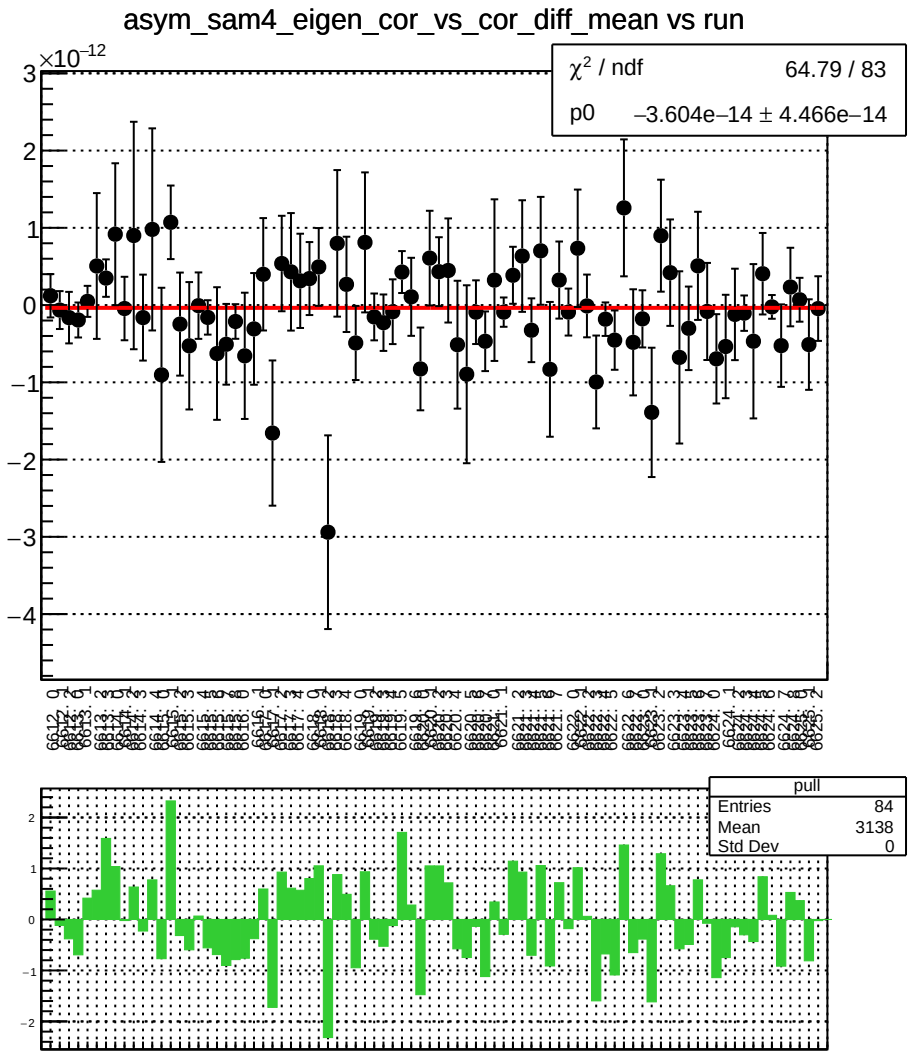

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2035 / 83
p0 0.002593 ± 2.031e−06
0.0028
0.0027
0.0026
0.0025
0.0024

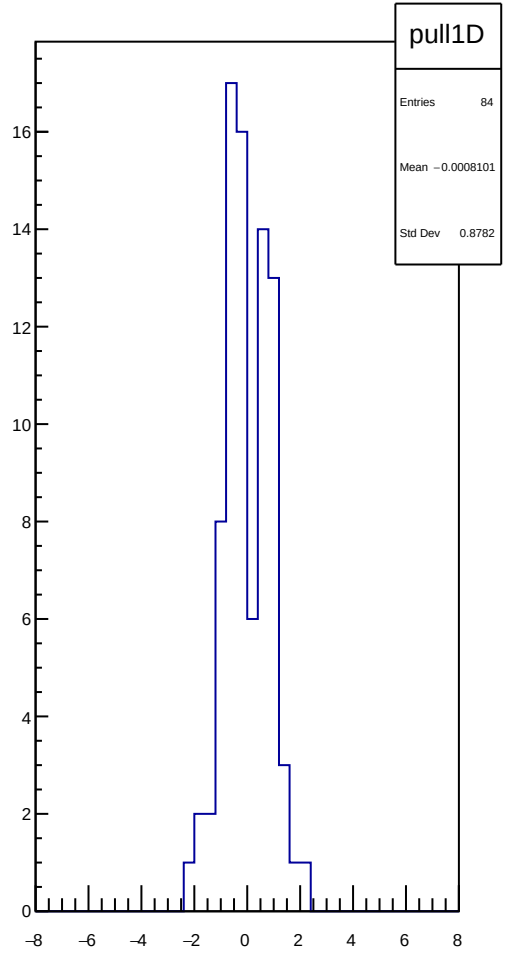

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.12 / 83
p0 −0.07404 ± 0.1511
pull
Entries 84
Mean 35.11
Std Dev 33.59
pull1D
Entries 84
Mean −0.01569
Std Dev 0.9886

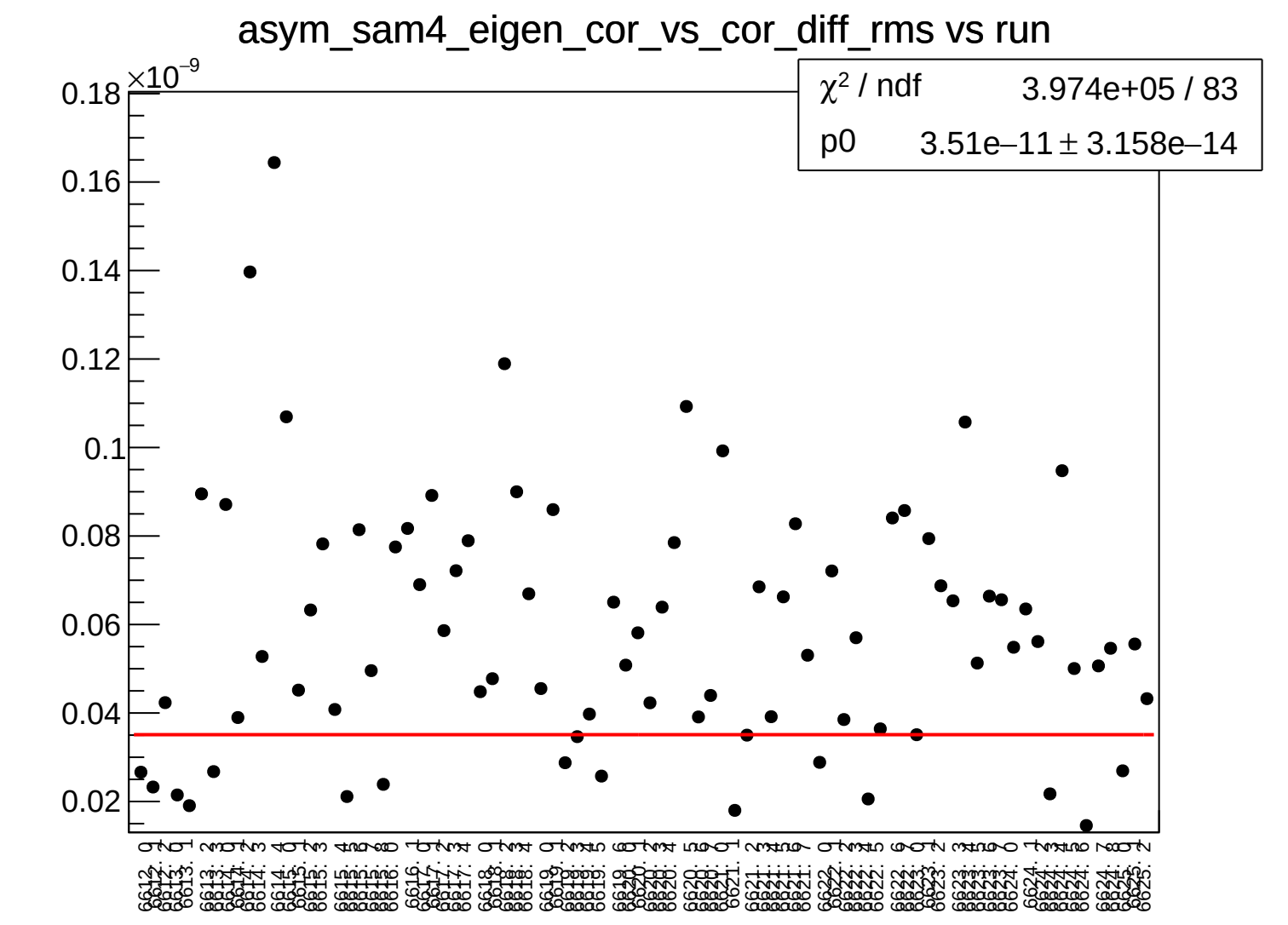

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.569e+04 / 83
p0 135.8 ± 0.1068
220
200
180
160
140
120
100

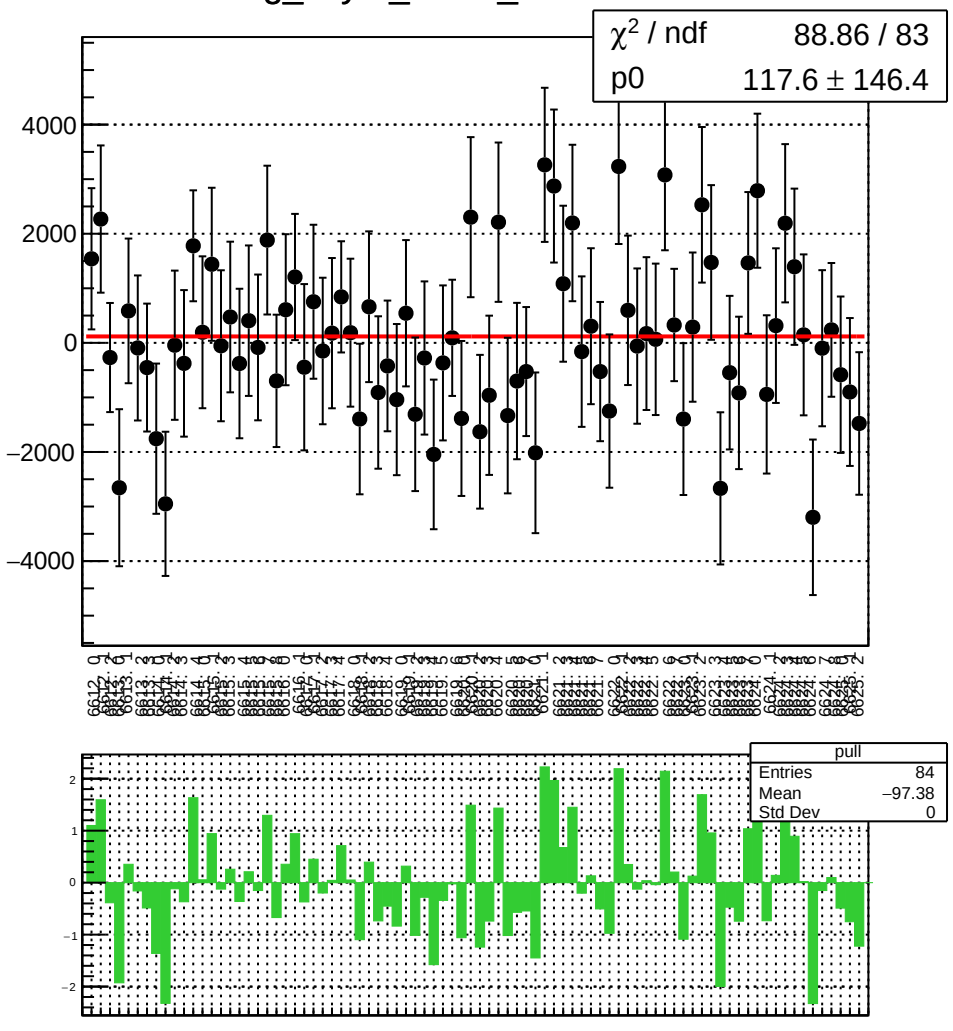

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.12 / 83
p0 −0.07404 ± 0.1511
pull
Entries 84
Mean 35.11
Std Dev 33.59
pull1D
Entries 84
Mean −0.01569
Std Dev 0.9886

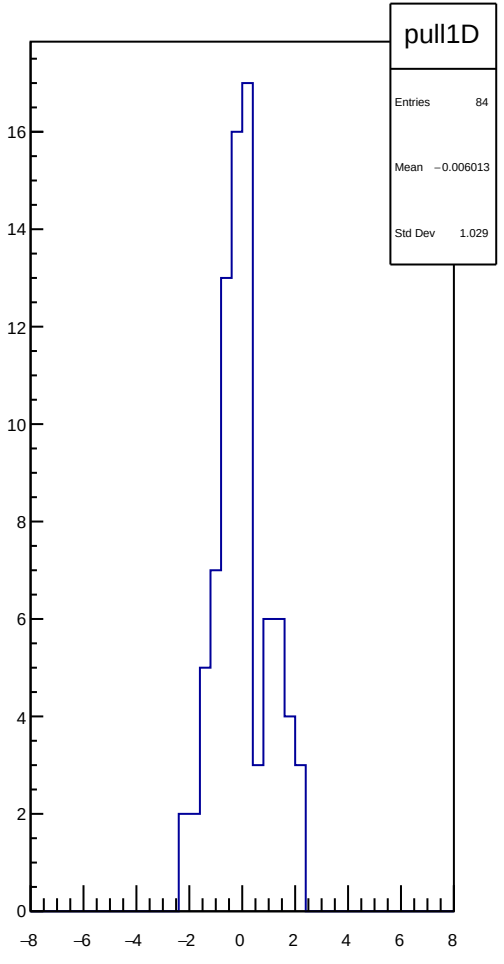

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.569e+04 / 83
p0 135.8 ± 0.1068
220
200
180
160
140
120
100

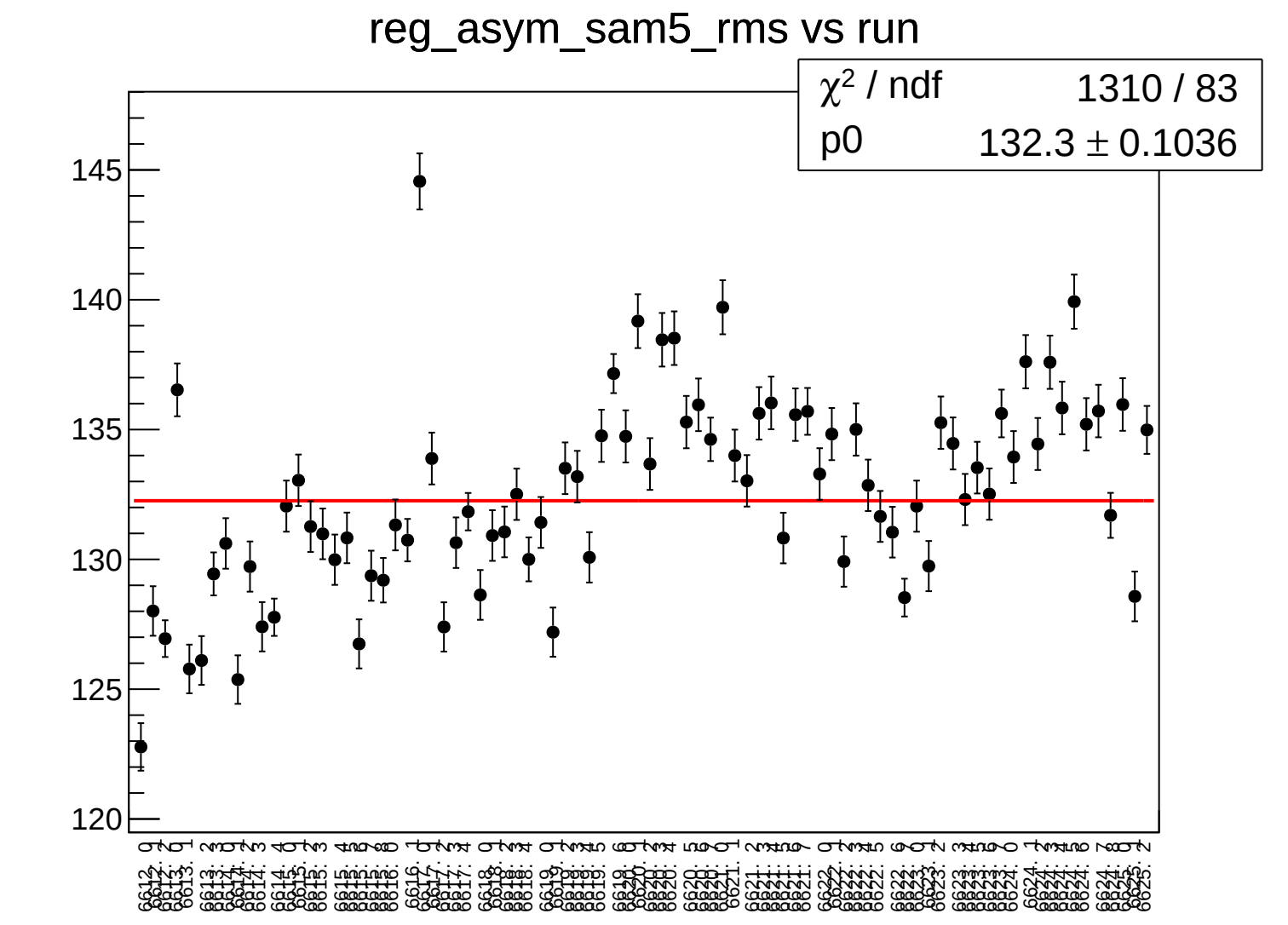

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.79 / 83
p0 −3.604e−14 ± 4.466e−14
pull
Entries 84
Mean 3138
Std Dev 0

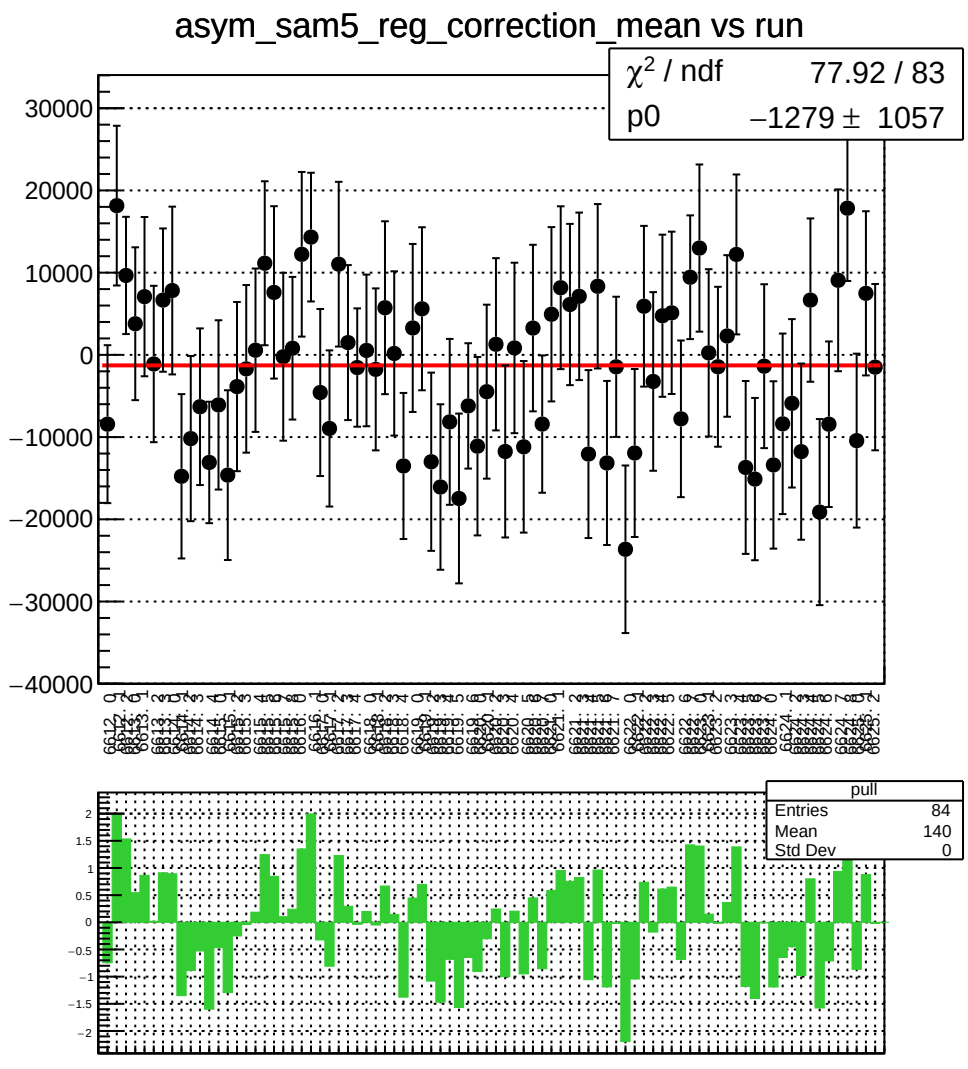

pull1D
Entries 84
Mean −0.0008101
Std Dev 0.8782

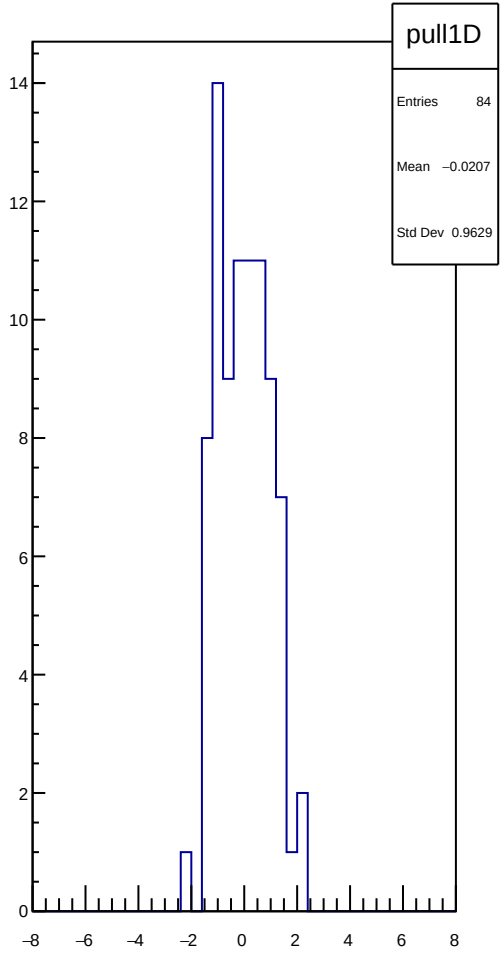

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.974e+05 / 83
p0 3.51e−11 ± 3.158e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

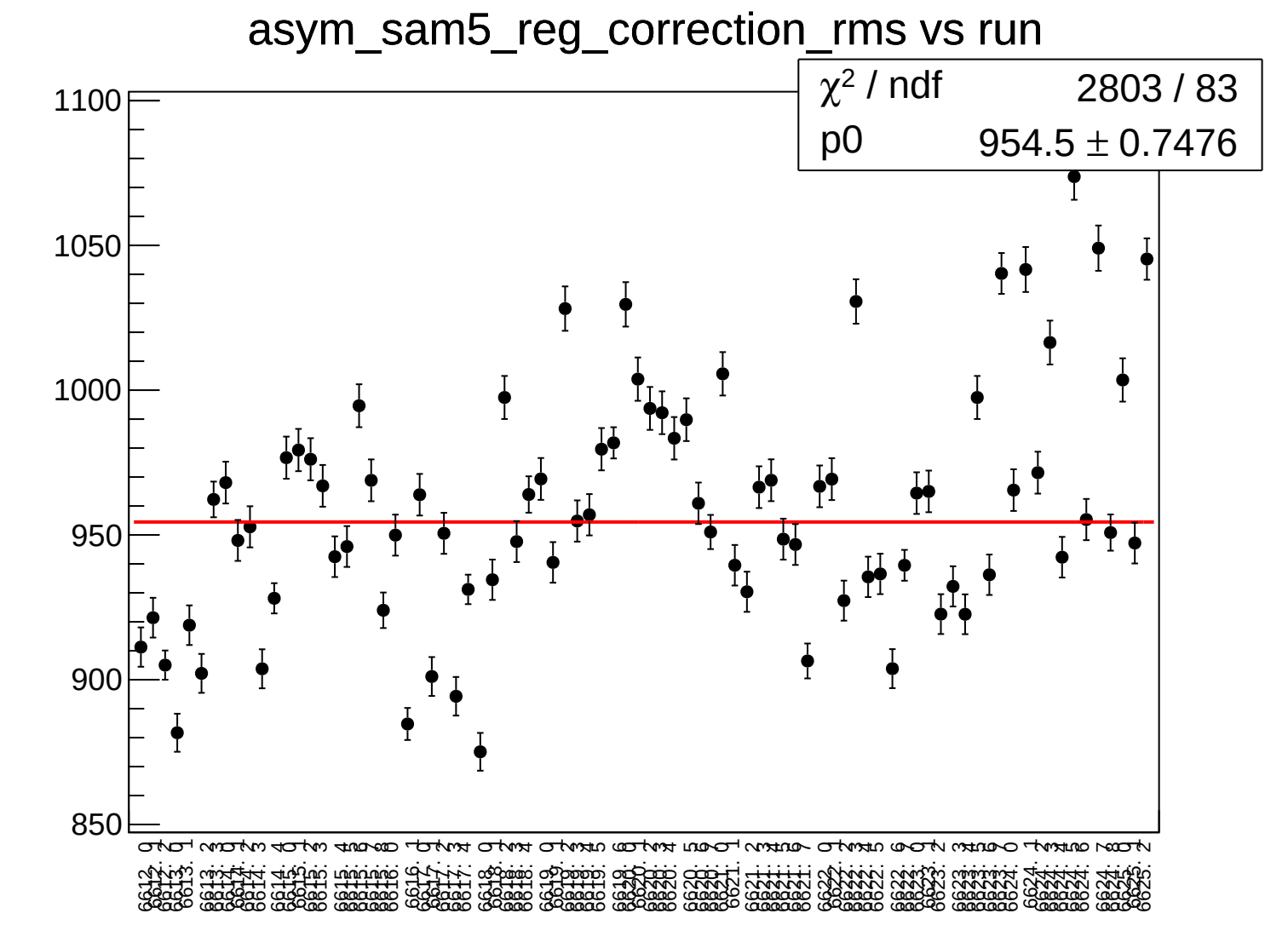

reg_asym_sam5_mean vs run
χ² / ndf 88.86 / 83
p0 117.6 ± 146.4
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −97.38
Std Dev 0
2
1
0
−1
−2

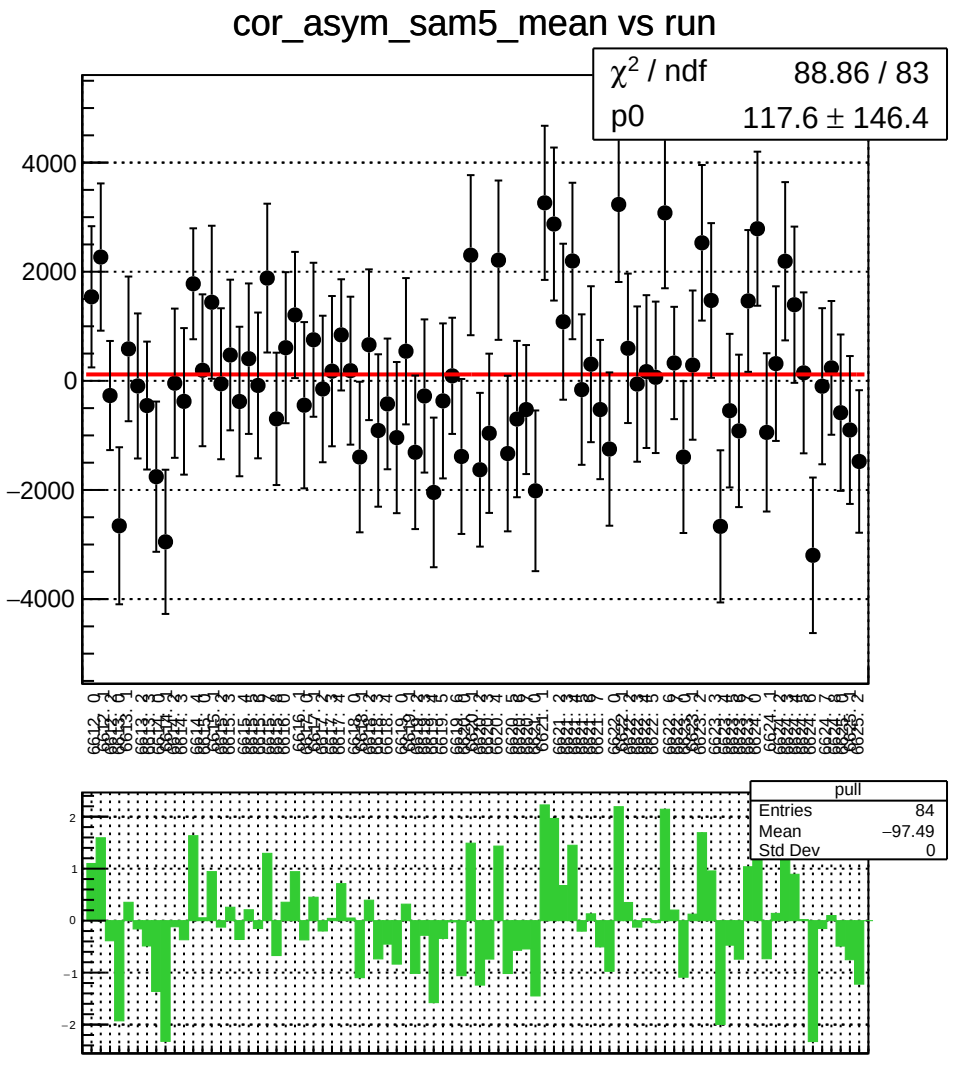

pull1D
Entries 84
Mean −0.006013
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

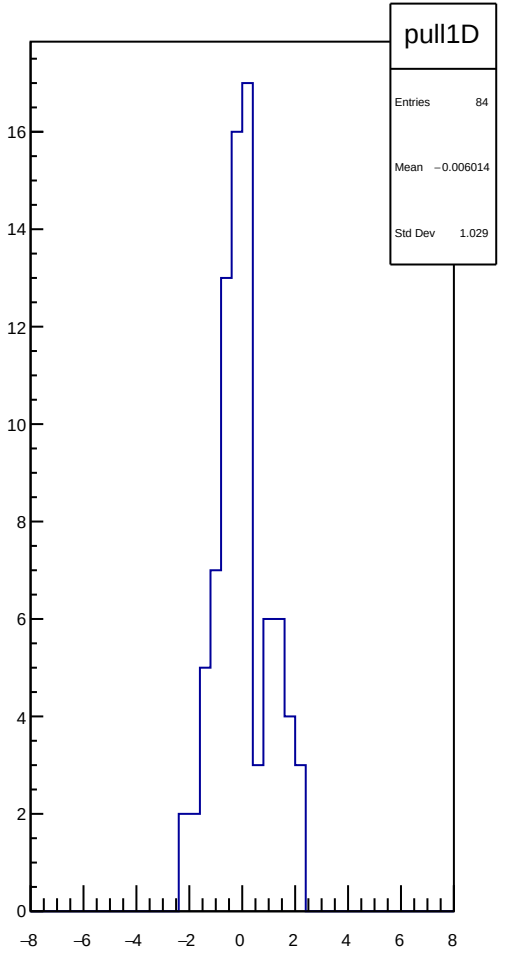

reg_asym_sam5_rms vs run
χ² / ndf 1310 / 83
p0 132.3 ± 0.1036
145
140
135
130
125
120

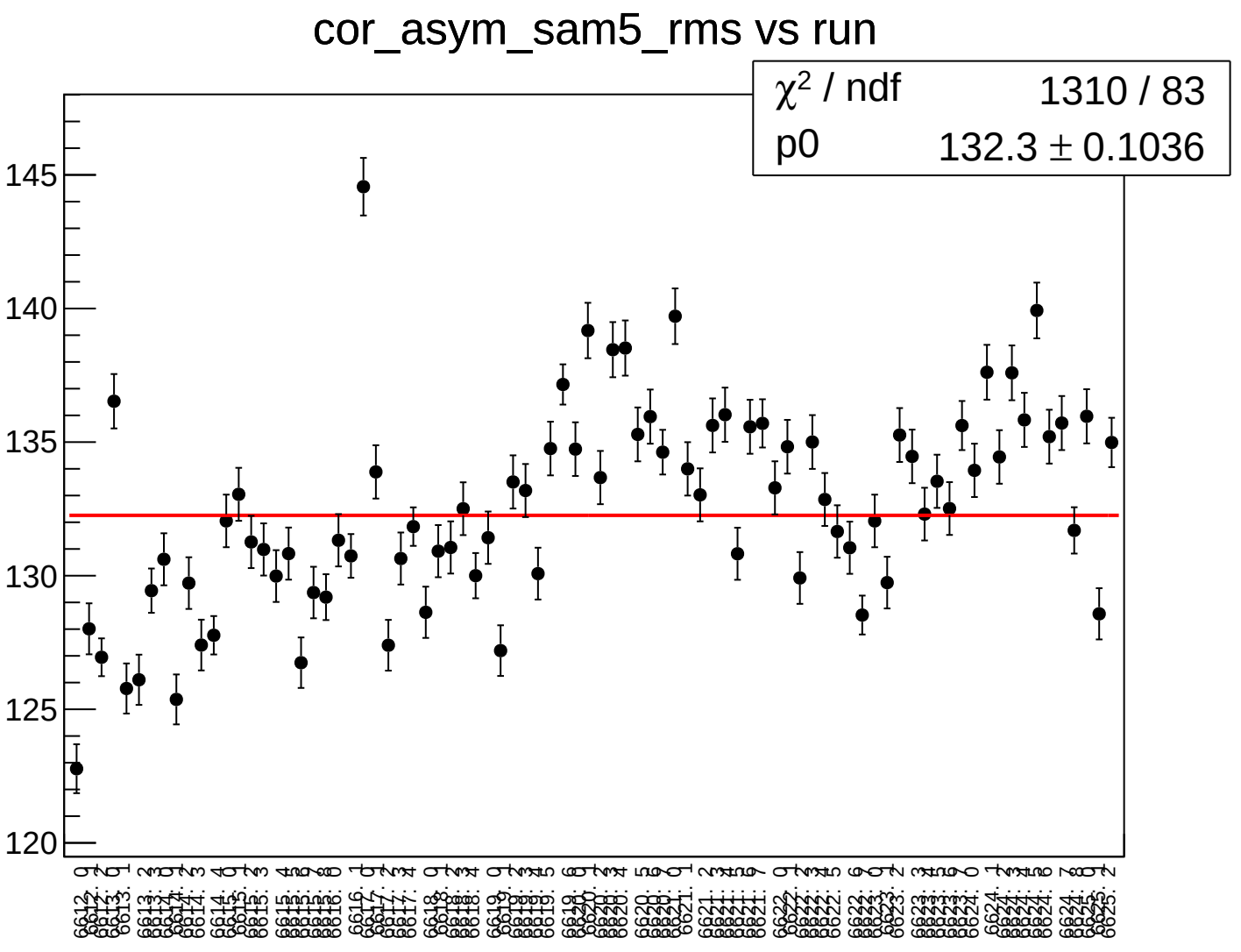

asym_sam5_reg_correction_mean vs run
χ² / ndf 77.92 / 83
p0 −1279 ± 1057
pull
Entries 84
Mean 140
Std Dev 0

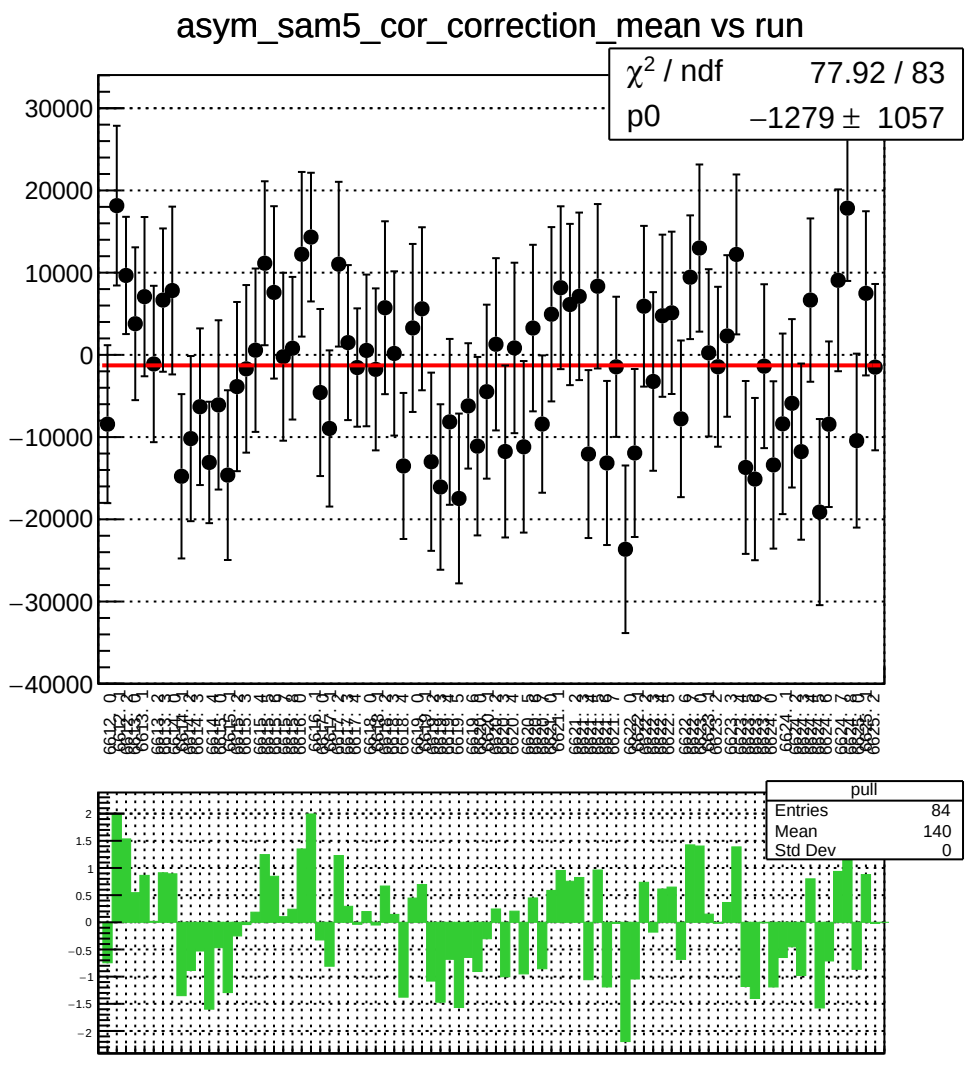

pull1D
Entries 84
Mean −0.0207
Std Dev 0.9629

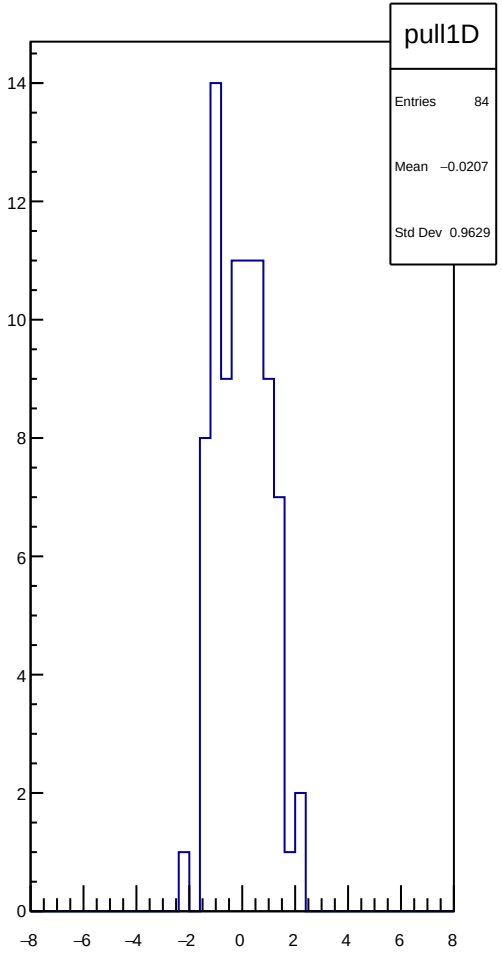

asym_sam5_reg_correction_rms vs run
χ² / ndf 2803 / 83
p0 954.5 ± 0.7476
1100
1050
1000
950
900
850

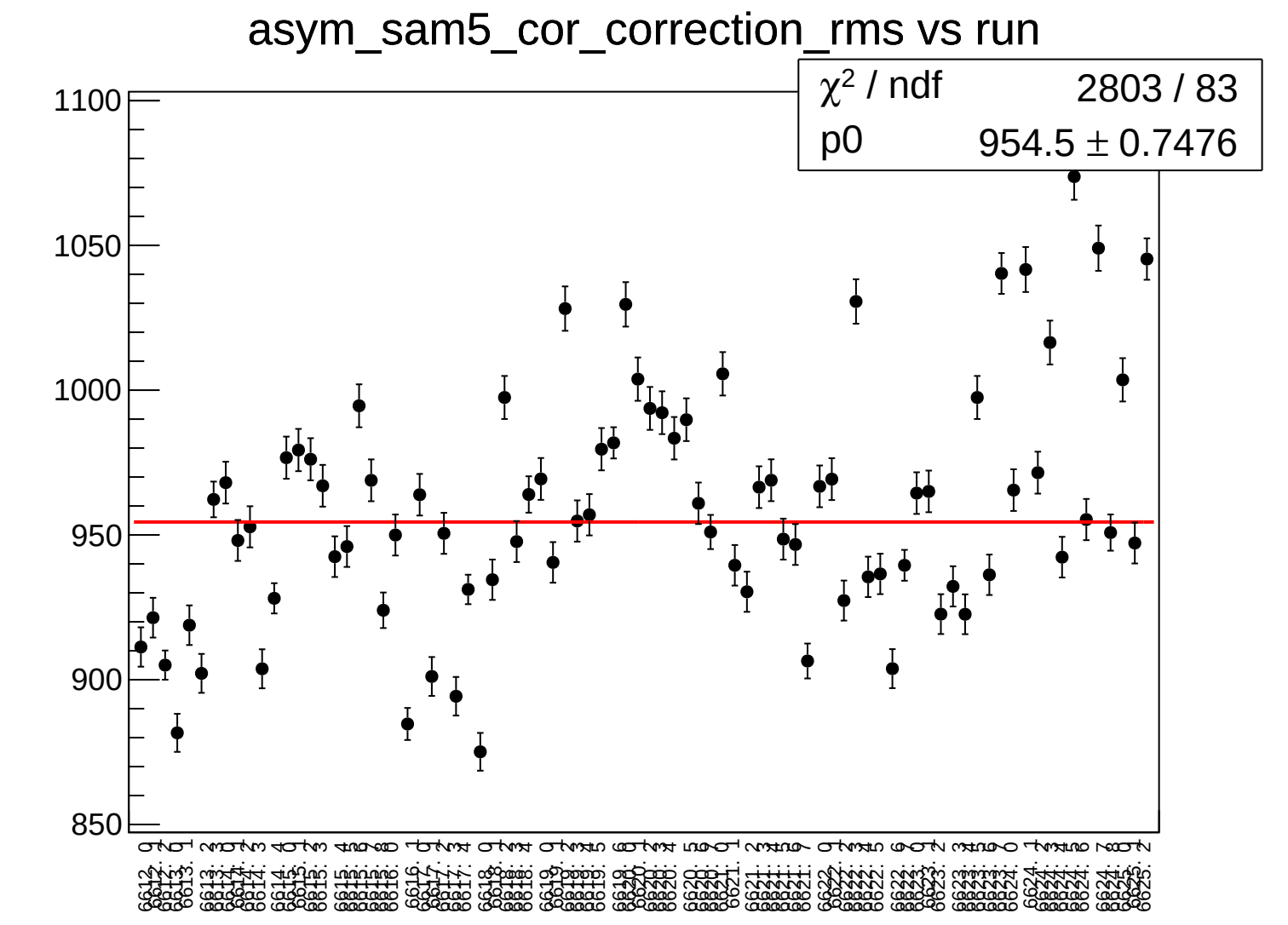

cor_asym_sam5_mean vs run
χ² / ndf 88.86 / 83
p0 117.6 ± 146.4
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −97.49
Std Dev 0
2
1
0
−1
−2

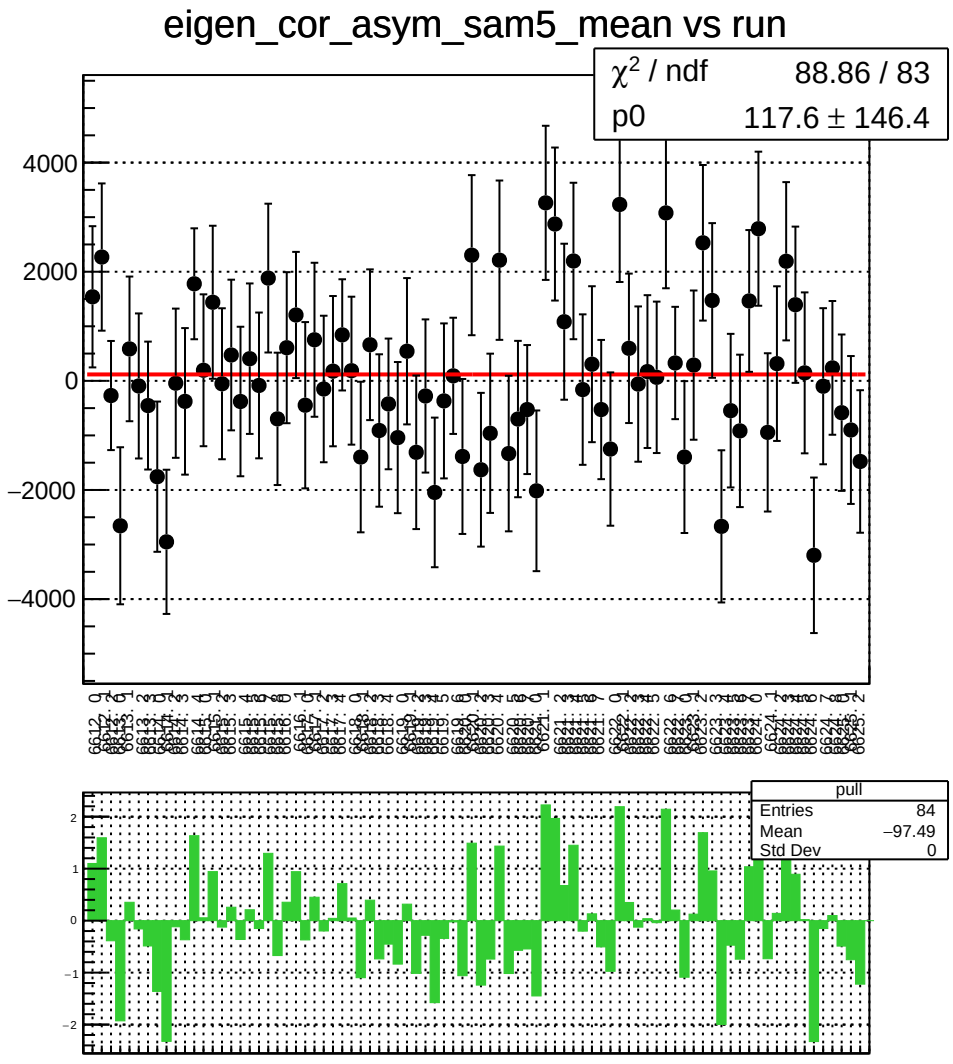

pull1D
Entries 84
Mean −0.006014
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

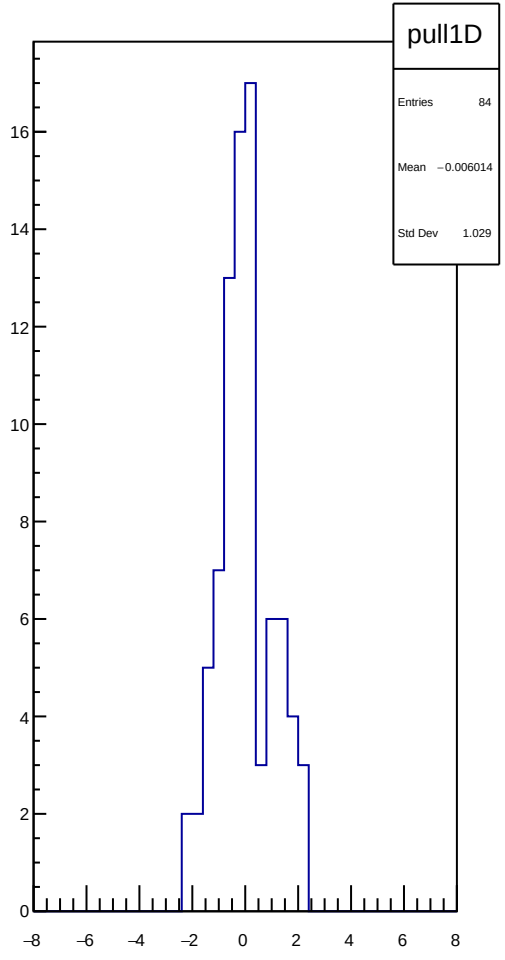

cor_asym_sam5_rms vs run
χ² / ndf 1310 / 83
p0 132.3 ± 0.1036
145
140
135
130
125
120

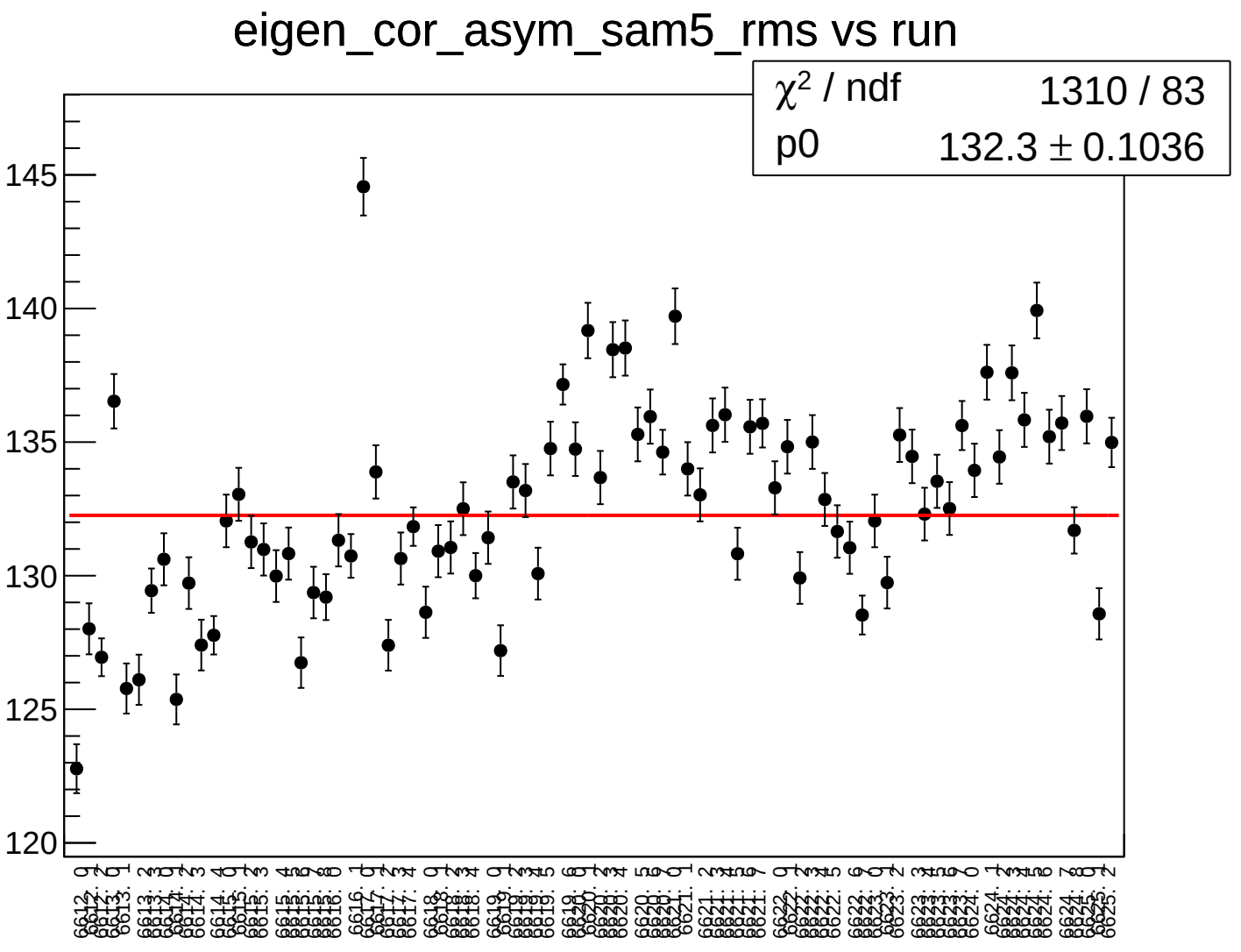

asym_sam5_cor_correction_mean vs run
χ² / ndf 77.92 / 83
p0 −1279 ± 1057
pull
Entries 84
Mean 140
Std Dev 0

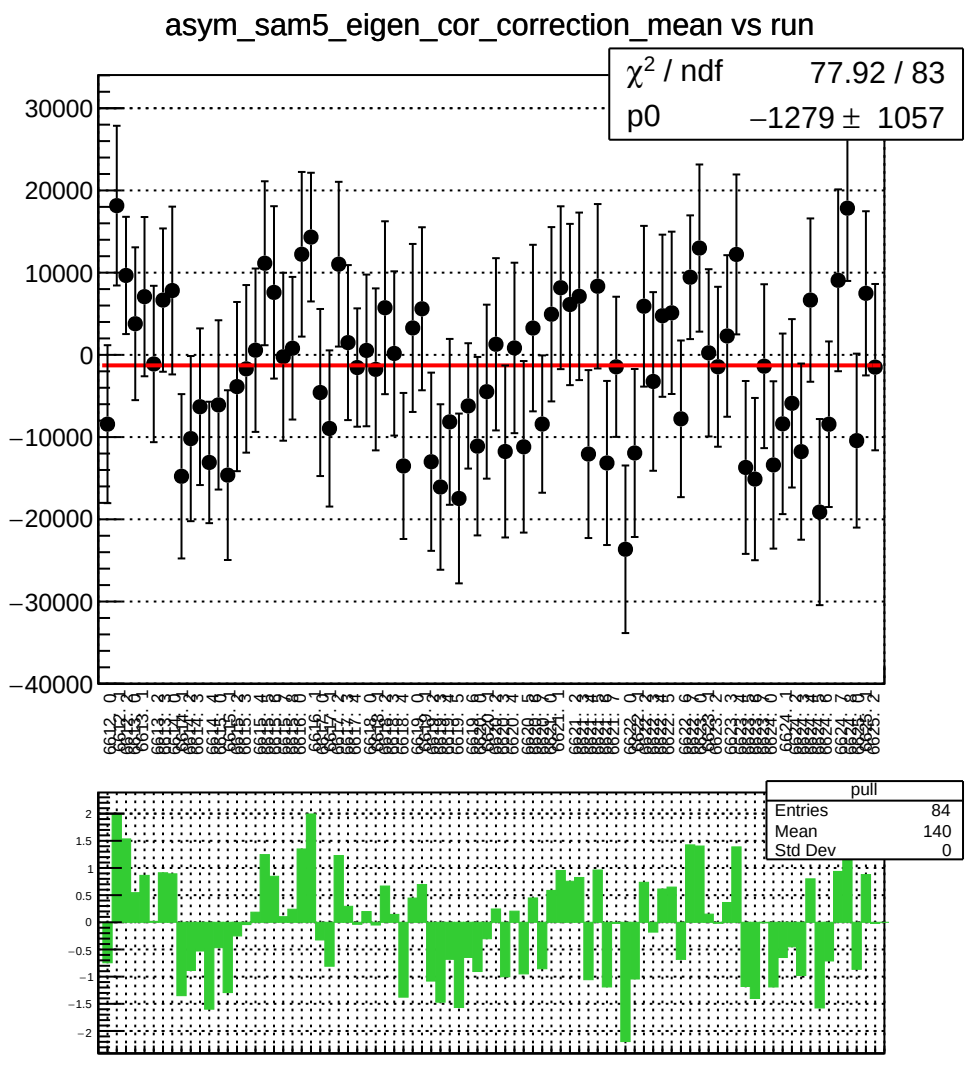

pull1D
Entries 84
Mean −0.0207
Std Dev 0.9629

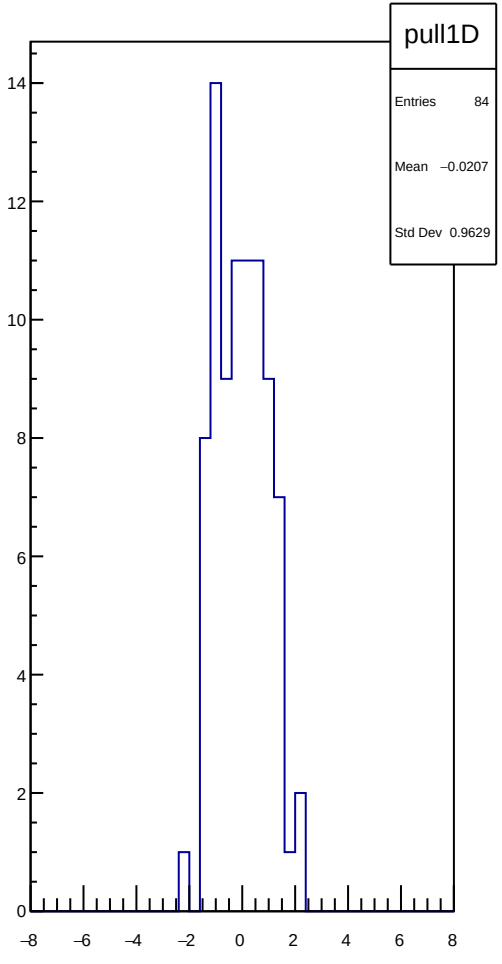

asym_sam5_cor_correction_rms vs run
χ² / ndf 2803 / 83
p0 954.5 ± 0.7476
1100
1050
1000
950
900
850

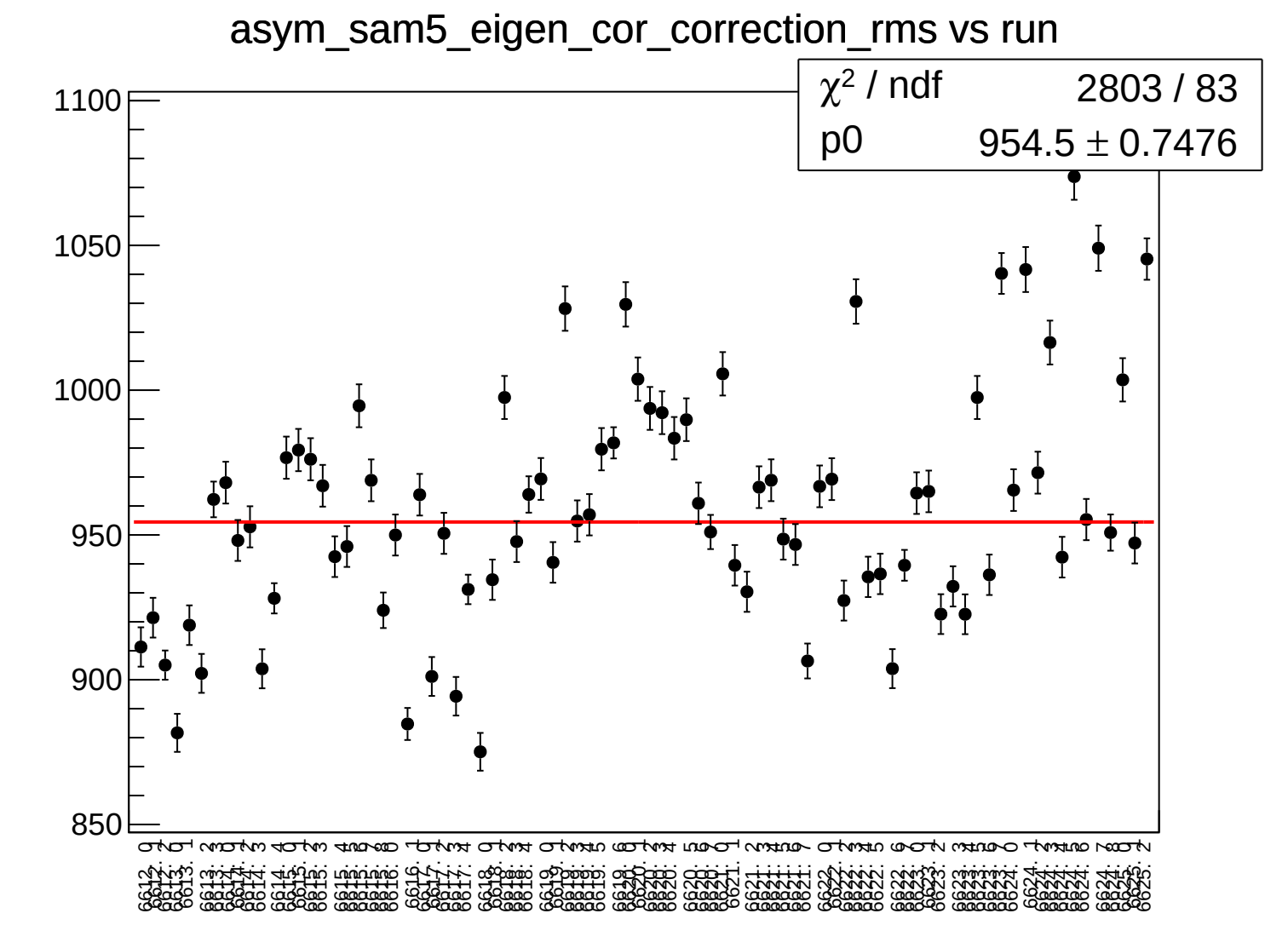

eigen_cor_asym_sam5_mean vs run
χ² / ndf 88.86 / 83
p0 117.6 ± 146.4
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −97.49
Std Dev 0
2
1
0
−1
−2

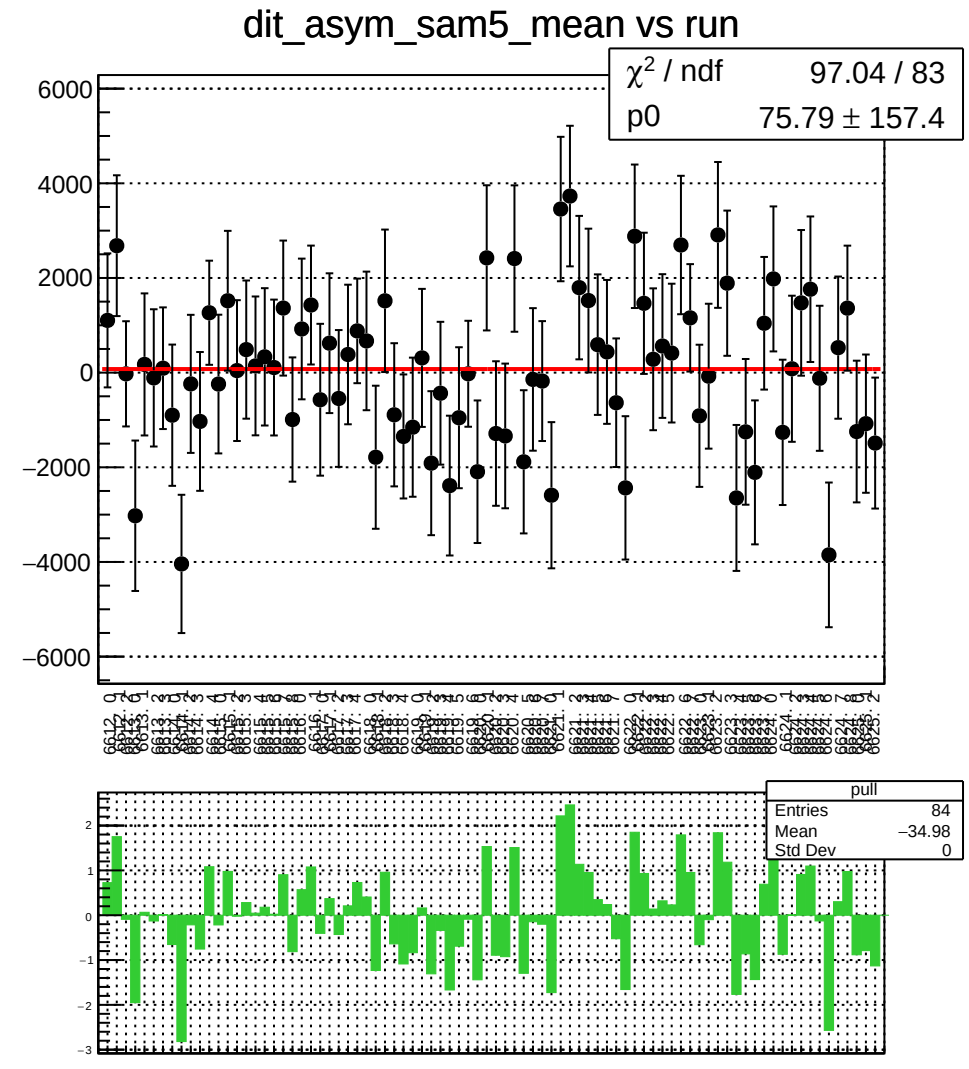

pull1D
Entries 84
Mean −0.006014
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

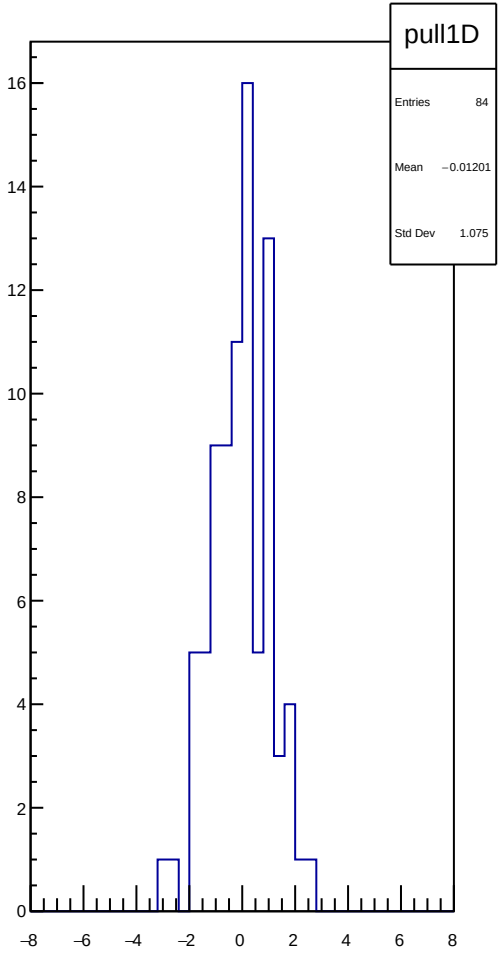

eigen_cor_asym_sam5_rms vs run
χ² / ndf 1310 / 83
p0 132.3 ± 0.1036
145
140
135
130
125
120

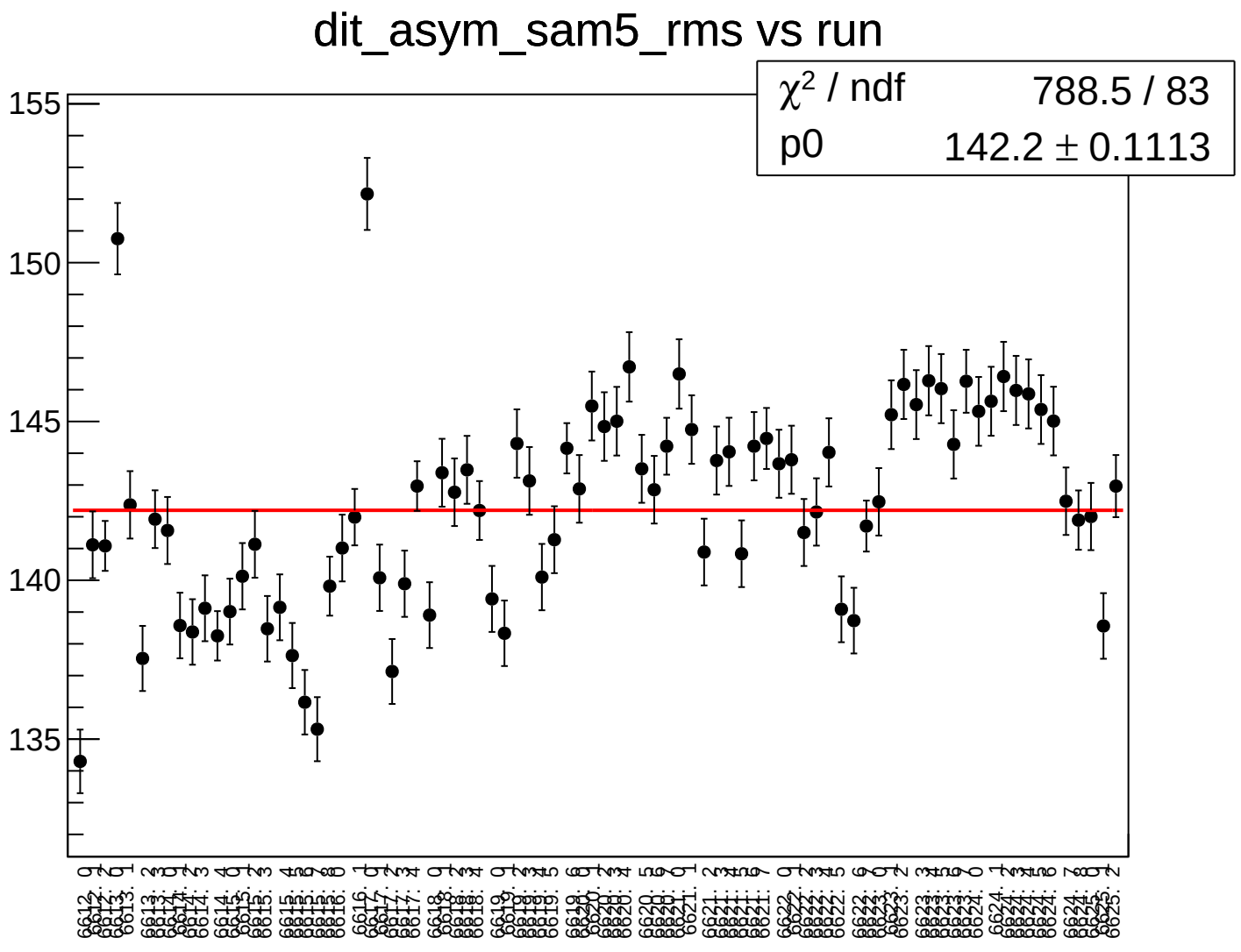

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 77.92 / 83
p0 −1279 ± 1057
pull
Entries 84
Mean 140
Std Dev 0

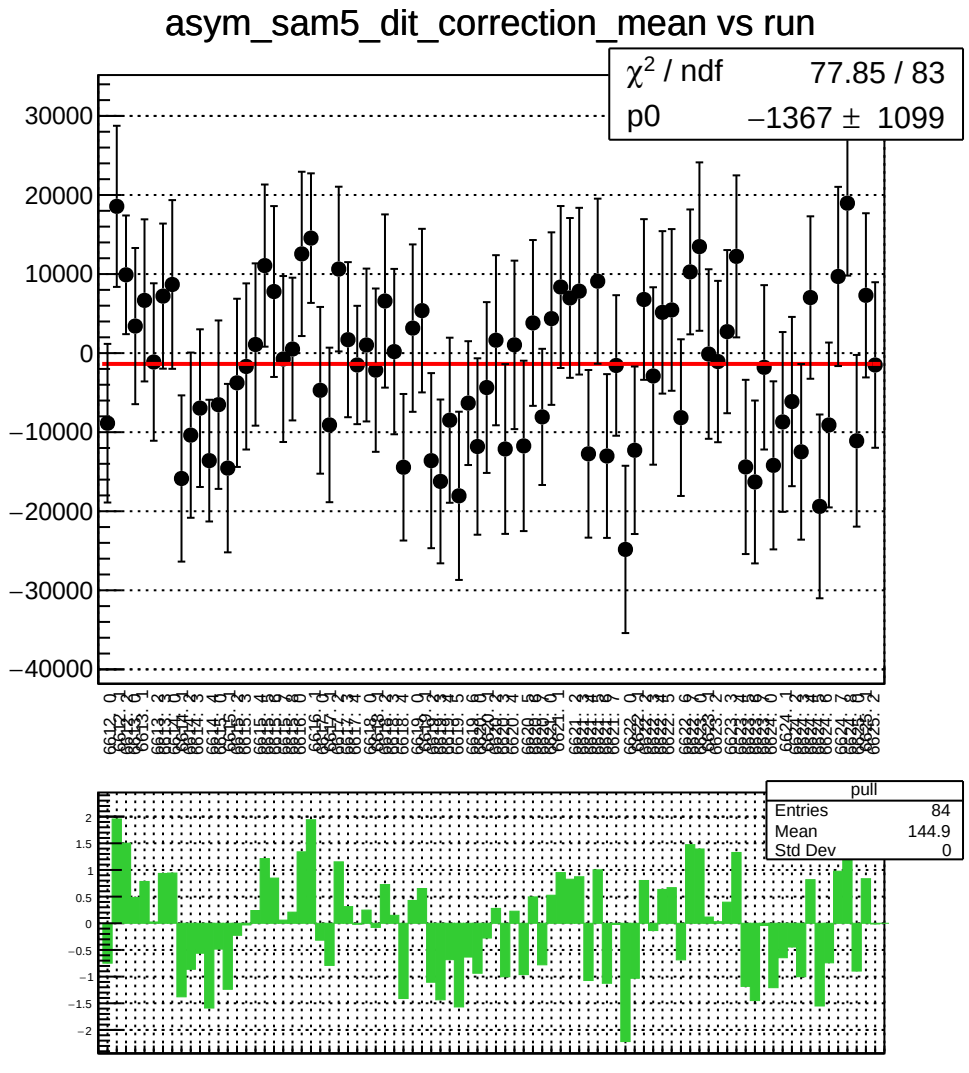

pull1D
Entries 84
Mean −0.0207
Std Dev 0.9629

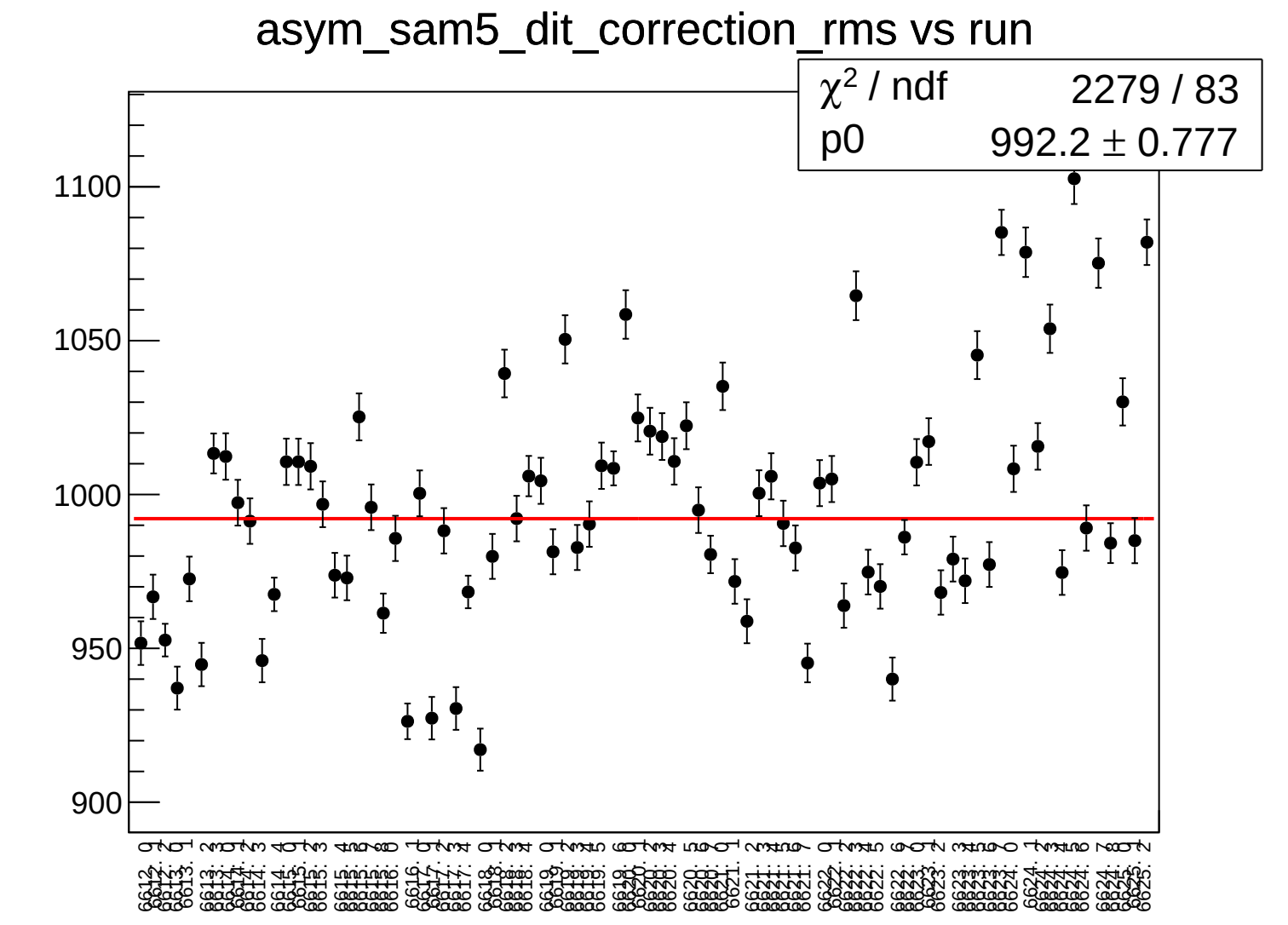

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 2803 / 83
p0 954.5 ± 0.7476
1100
1050
1000
950
900
850

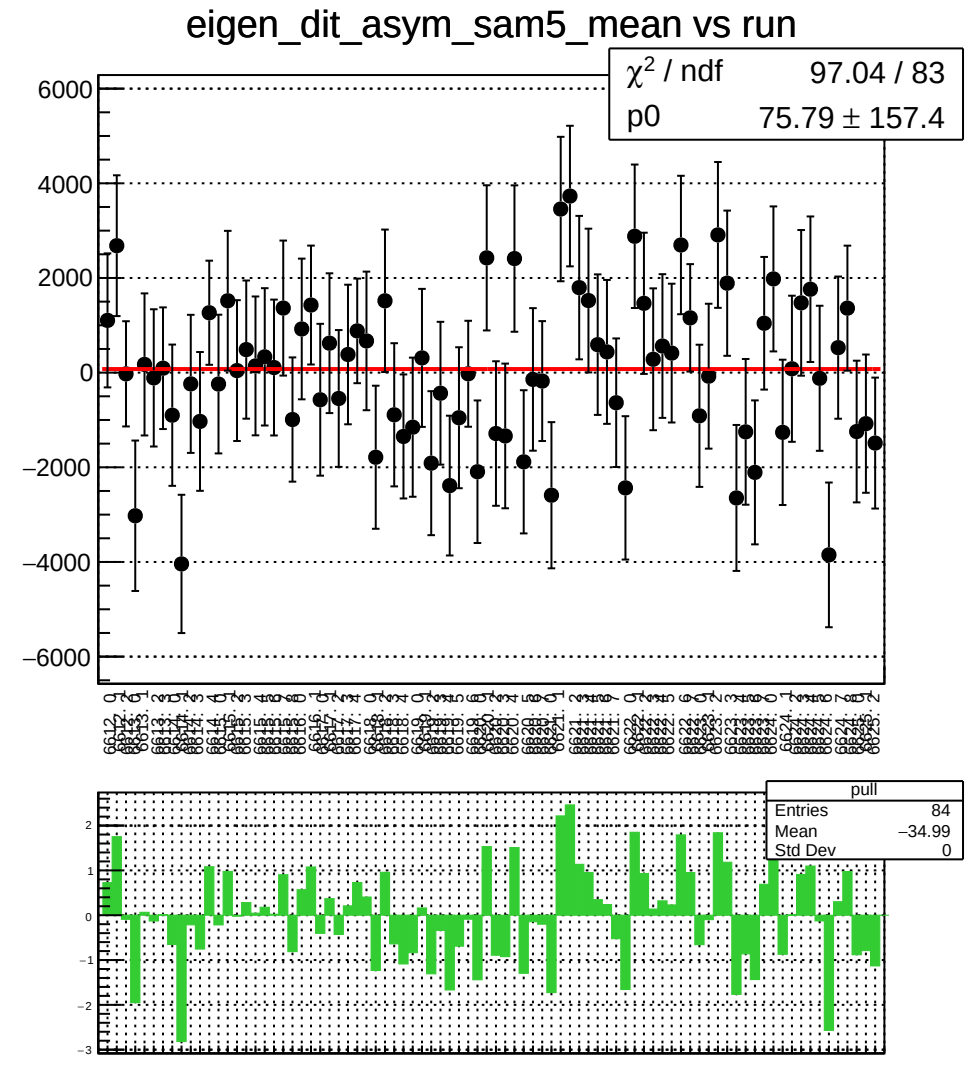

dit_asym_sam5_mean vs run
χ² / ndf 97.04 / 83
p0 75.79 ± 157.4
pull
Entries 84
Mean −34.98
Std Dev 0

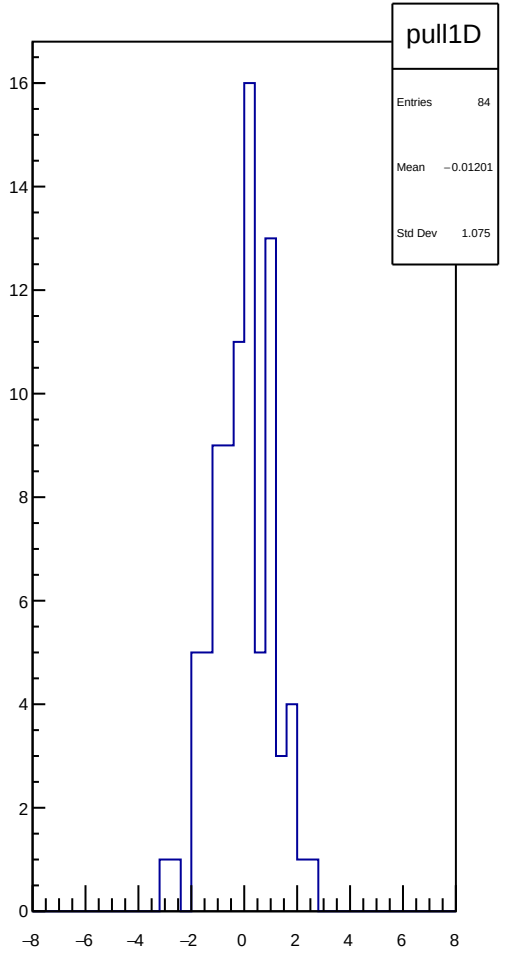

pull1D
Entries 84
Mean −0.01201
Std Dev 1.075

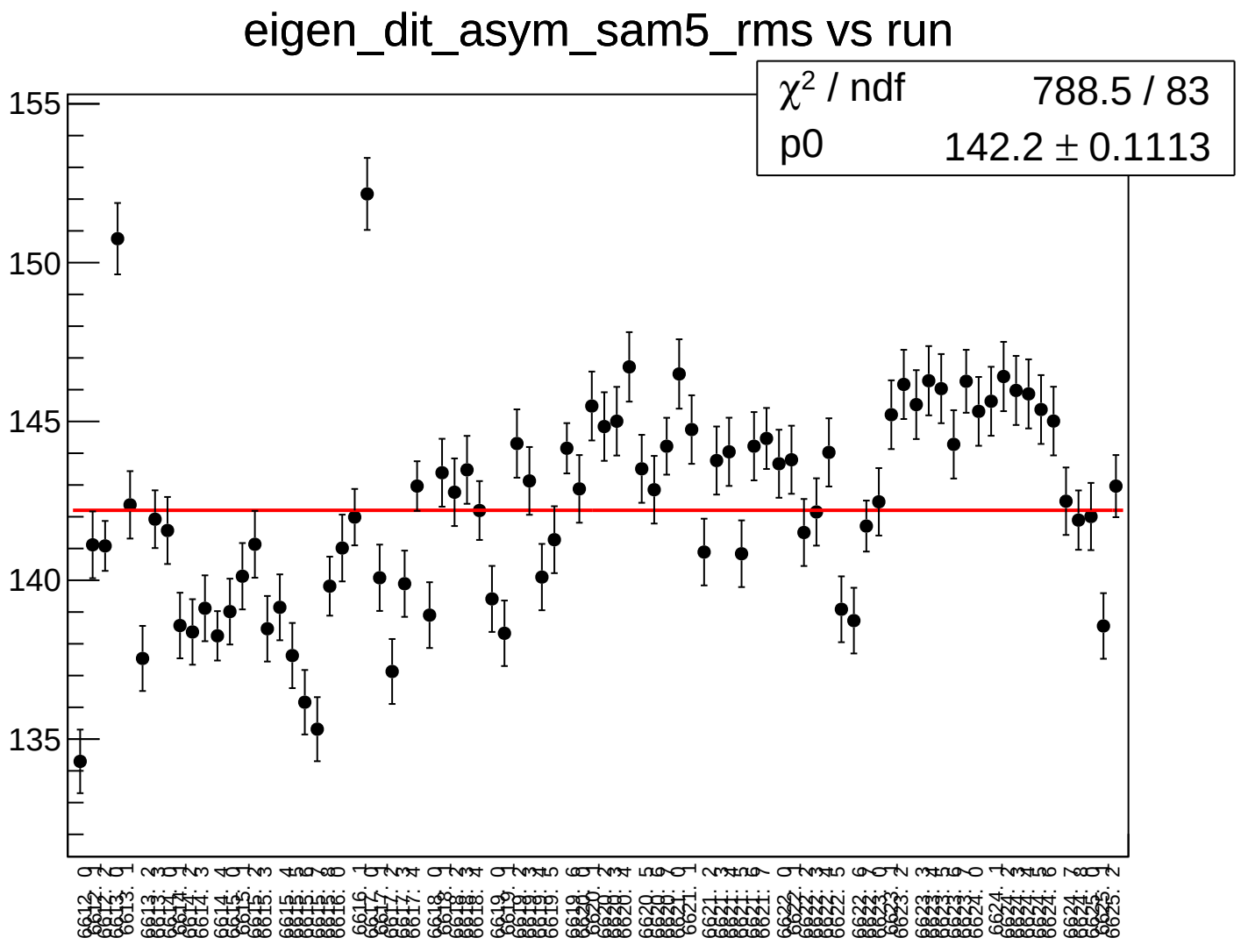

dit_asym_sam5_rms vs run
χ² / ndf 788.5 / 83
p0 142.2 ± 0.1113
155
150
145
140
135

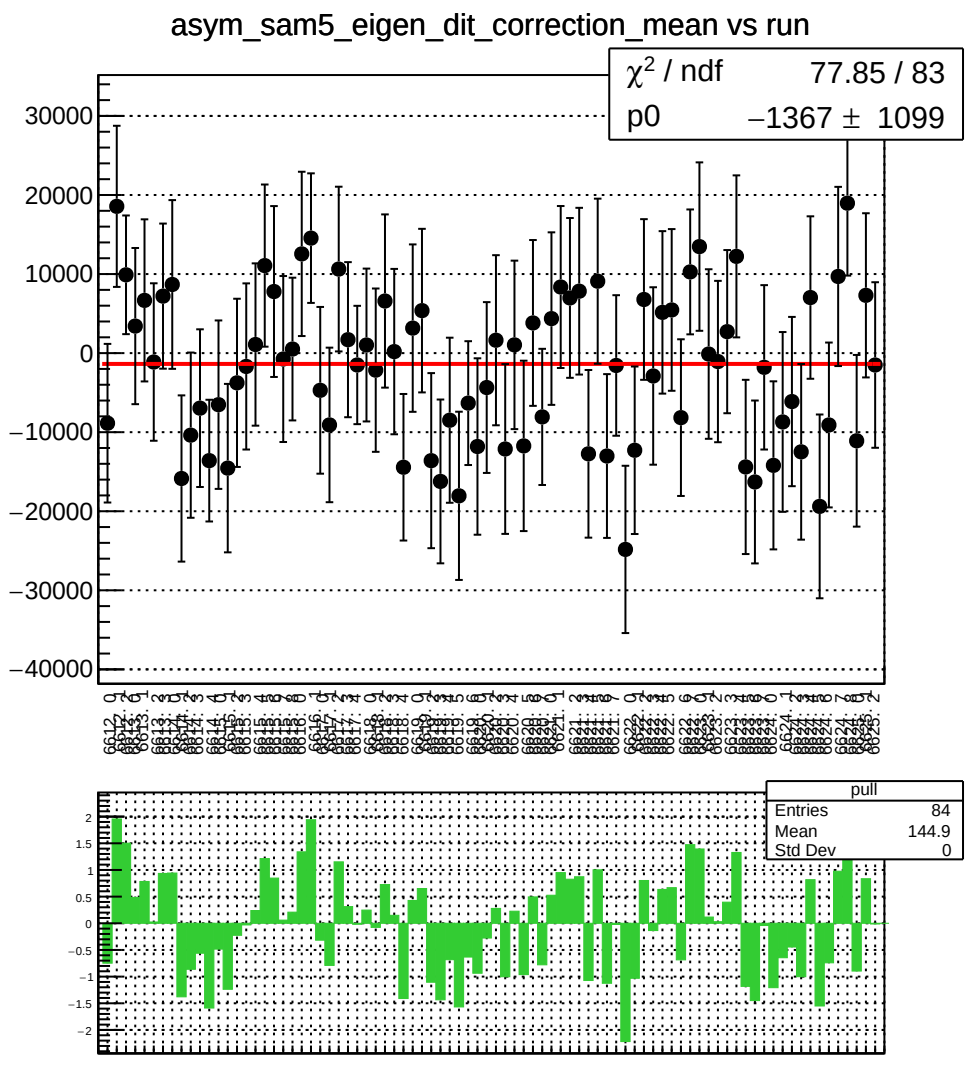

asym_sam5_dit_correction_mean vs run
χ² / ndf 77.85 / 83
p0 −1367 ± 1099
pull
Entries 84
Mean 144.9
Std Dev 0
pull1D
Entries 84
Mean −0.01852
Std Dev 0.9625

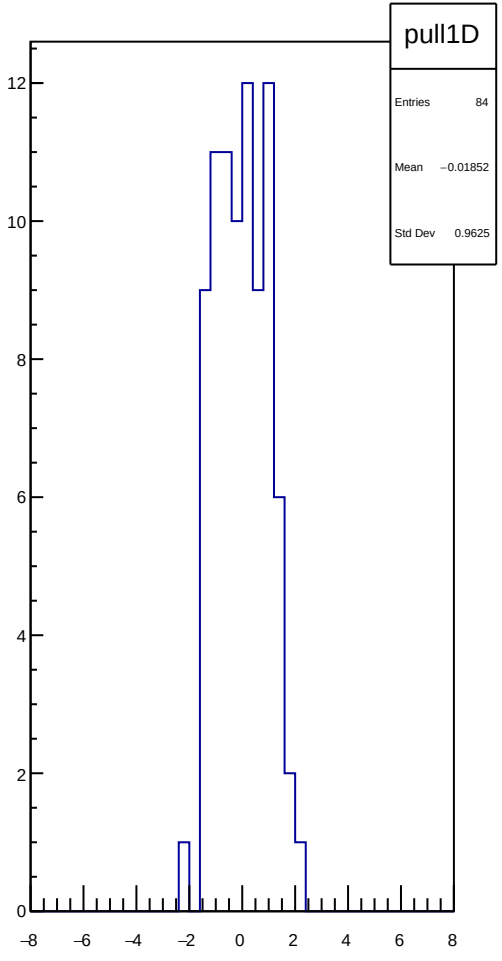

asym_sam5_dit_correction_rms vs run
χ² / ndf 2279 / 83
p0 992.2 ± 0.777
1100
1050
1000
950
900

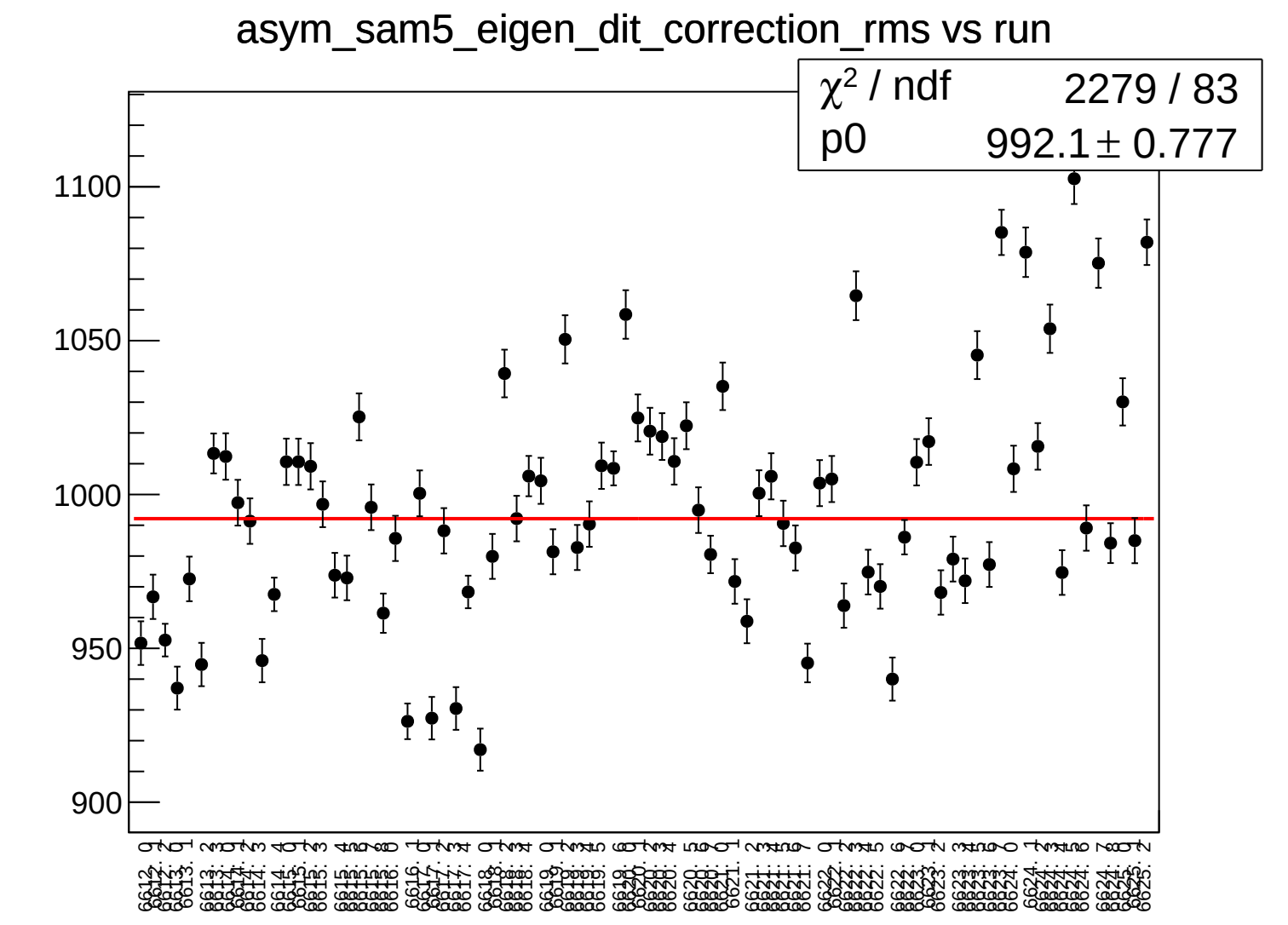

eigen_dit_asym_sam5_mean vs run
χ² / ndf 97.04 / 83
p0 75.79 ± 157.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean −34.99
Std Dev 0
2
1
0
−1
−2
−3

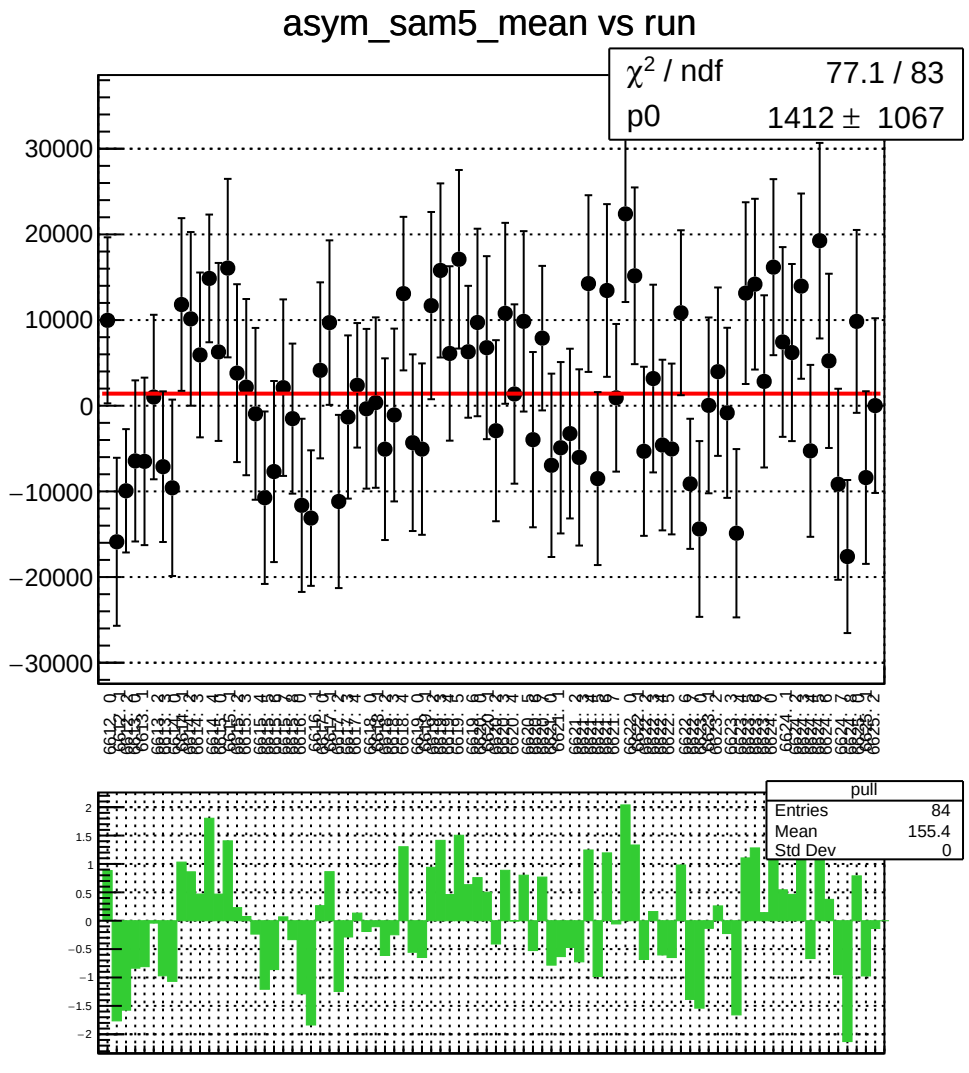

pull1D
Entries 84
Mean −0.01201
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

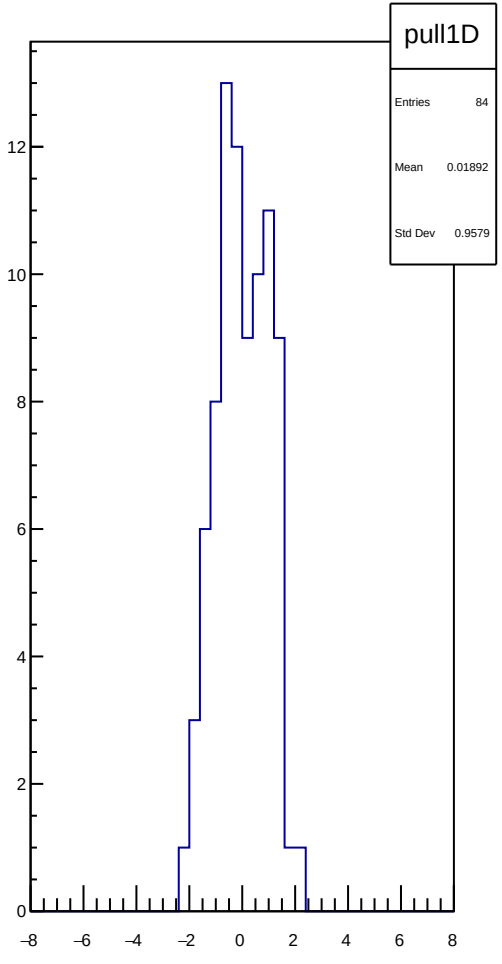

eigen_dit_asym_sam5_rms vs run
χ² / ndf 788.5 / 83
p0 142.2 ± 0.1113
155
150
145
140
135

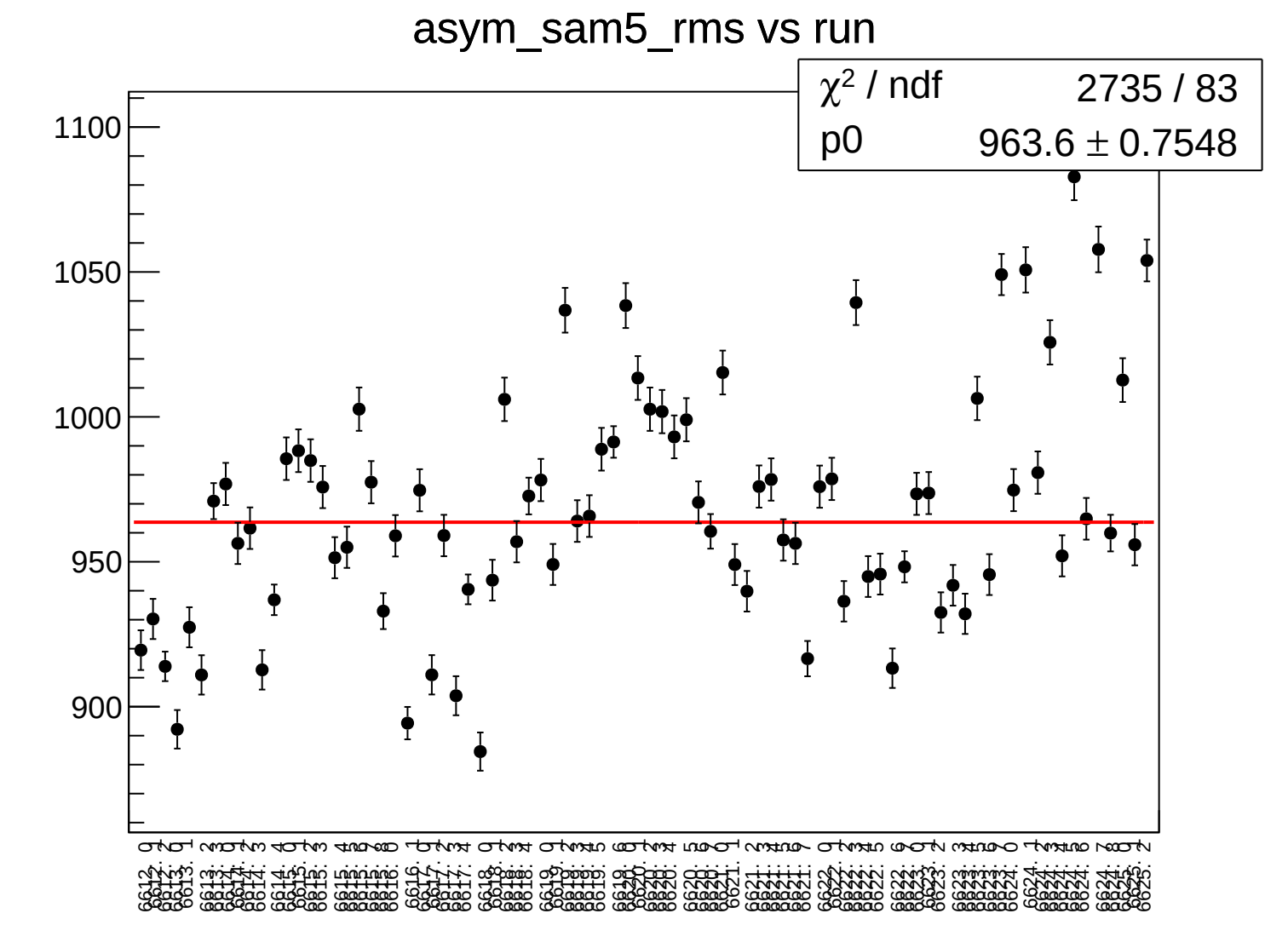

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 77.85 / 83
p0 −1367 ± 1099
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 144.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

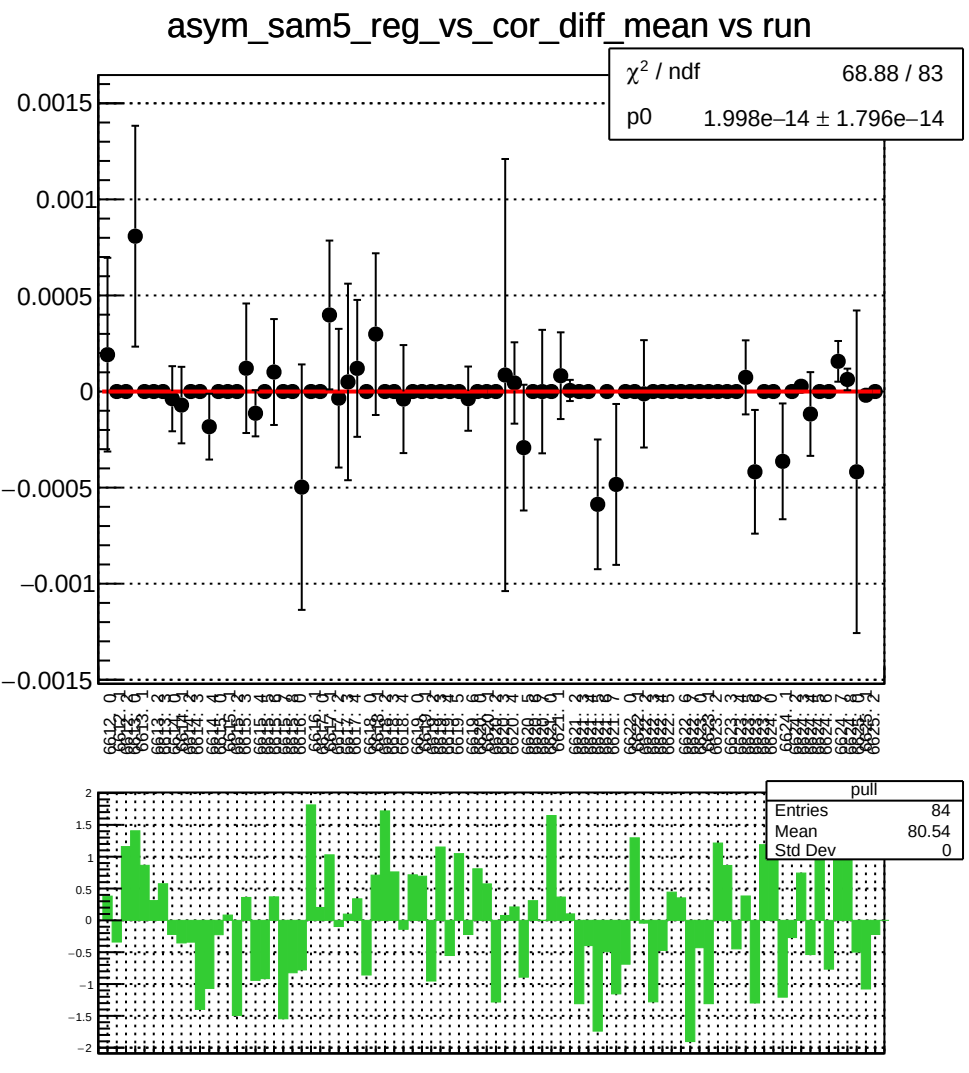

pull1D
Entries 84
Mean −0.01852
Std Dev 0.9625
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

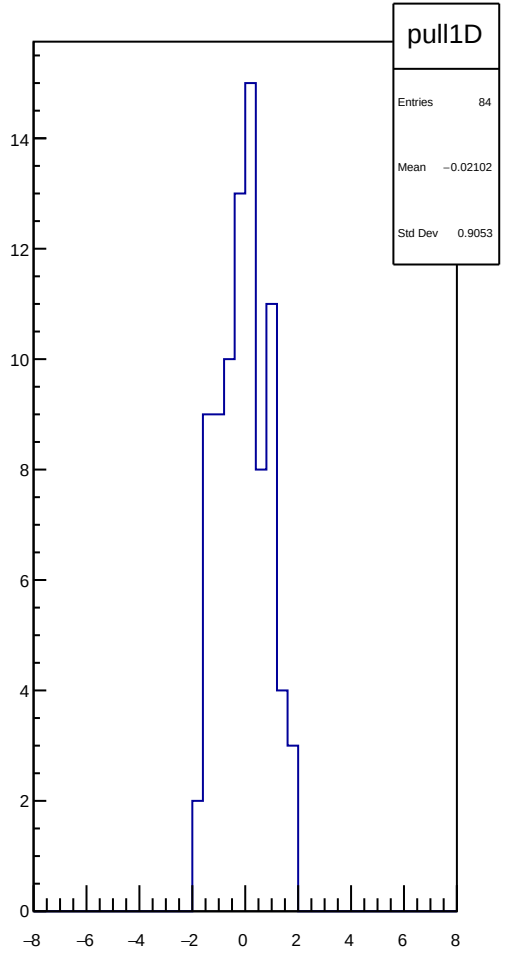

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 2279 / 83
p0 992.1 ± 0.777
1100
1050
1000
950
900

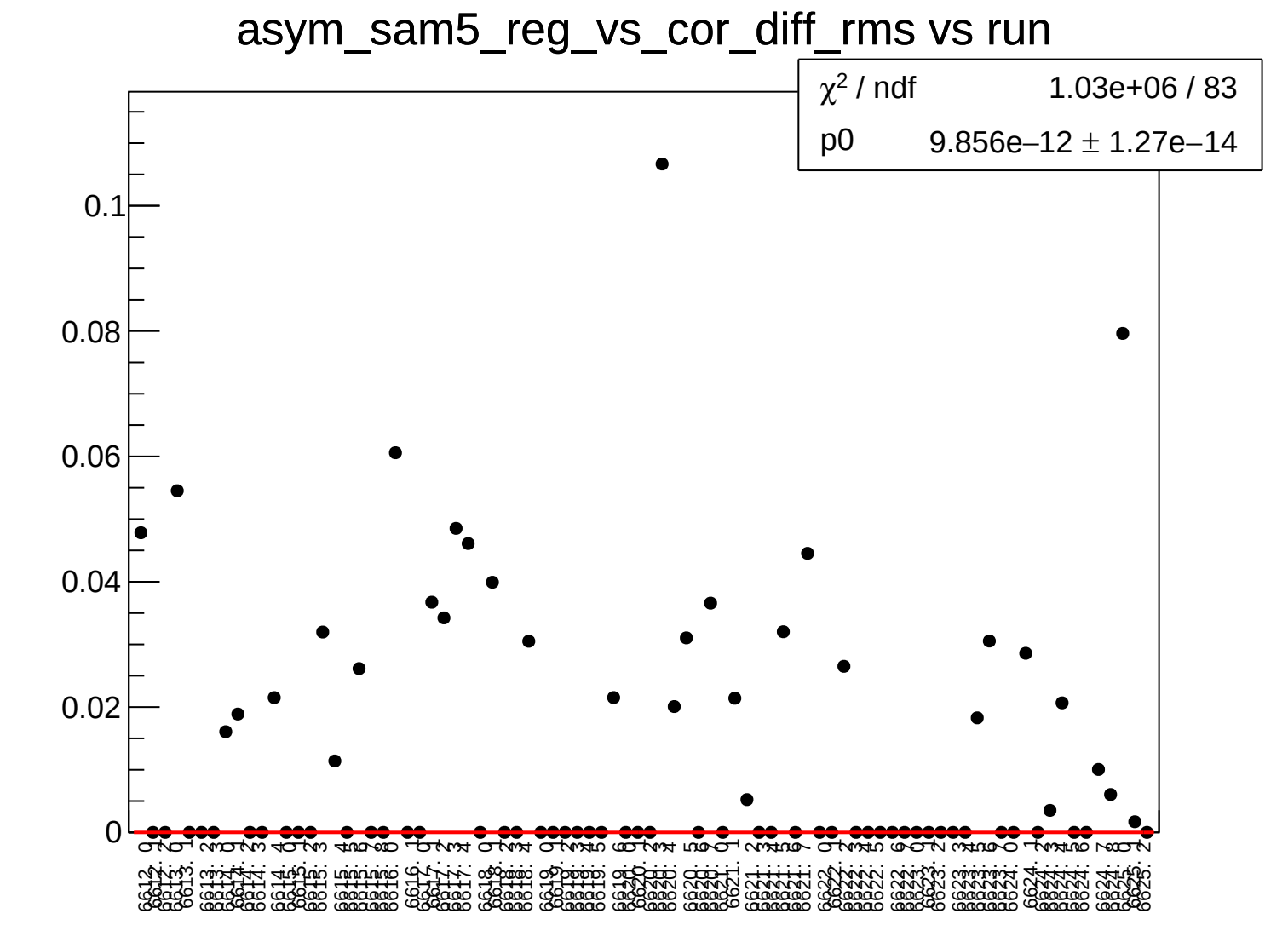

asym_sam5_mean vs run
χ² / ndf 77.1 / 83
p0 1412 ± 1067
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 155.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

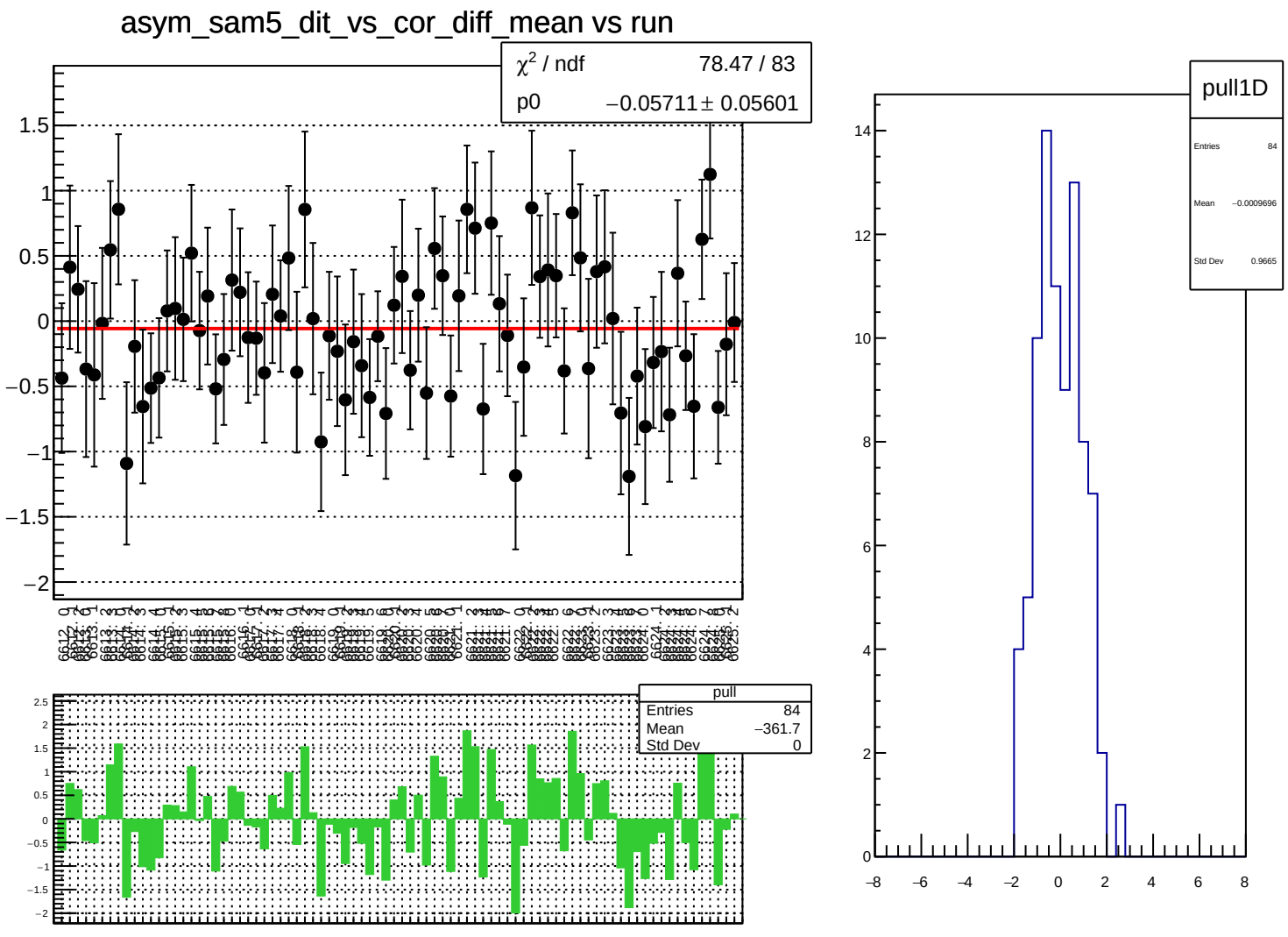

pull1D
Entries 84
Mean 0.01892
Std Dev 0.9579
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

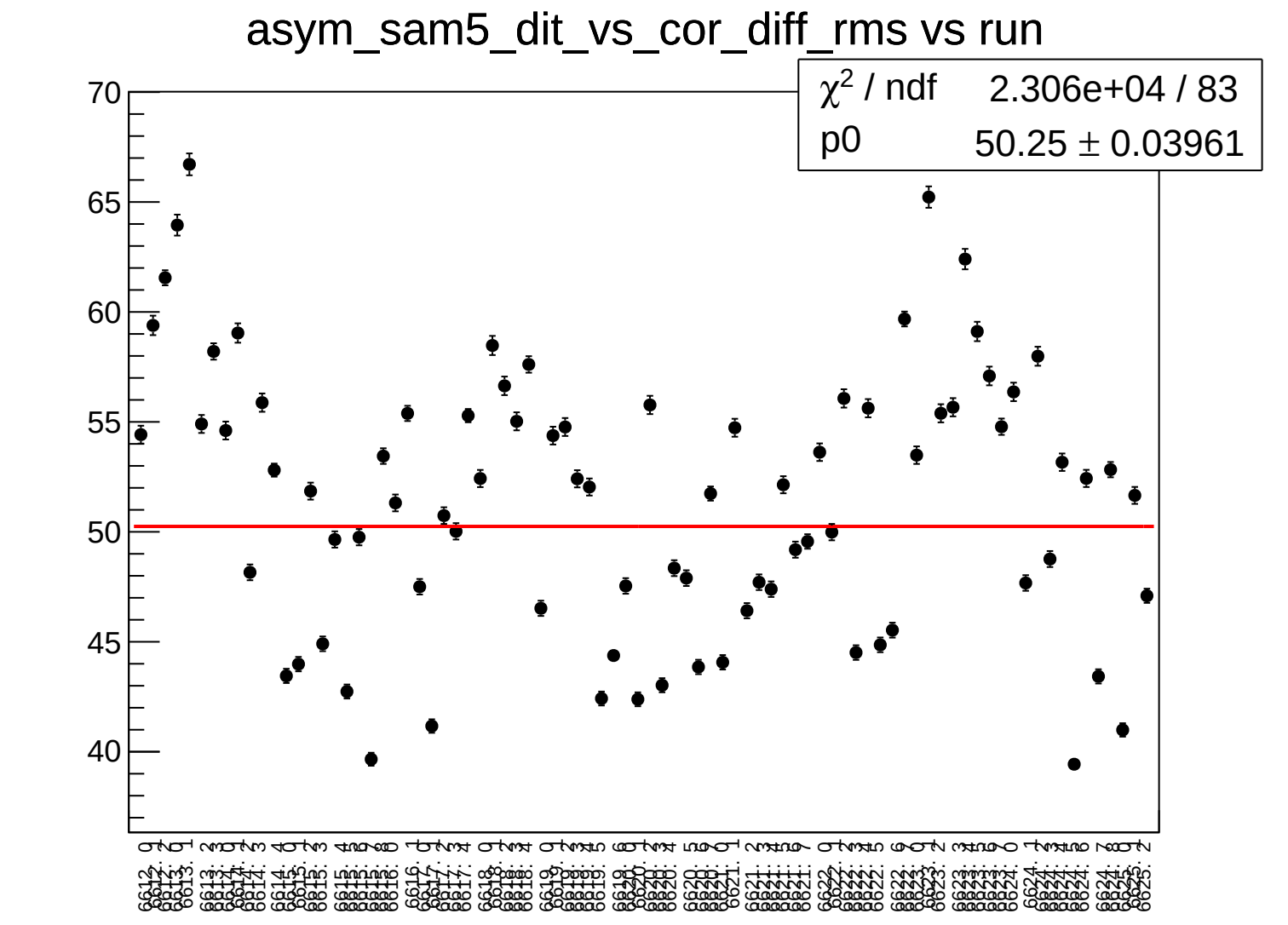

asym_sam5_rms vs run
χ² / ndf 2735 / 83
p0 963.6 ± 0.7548
1100
1050
1000
950
900

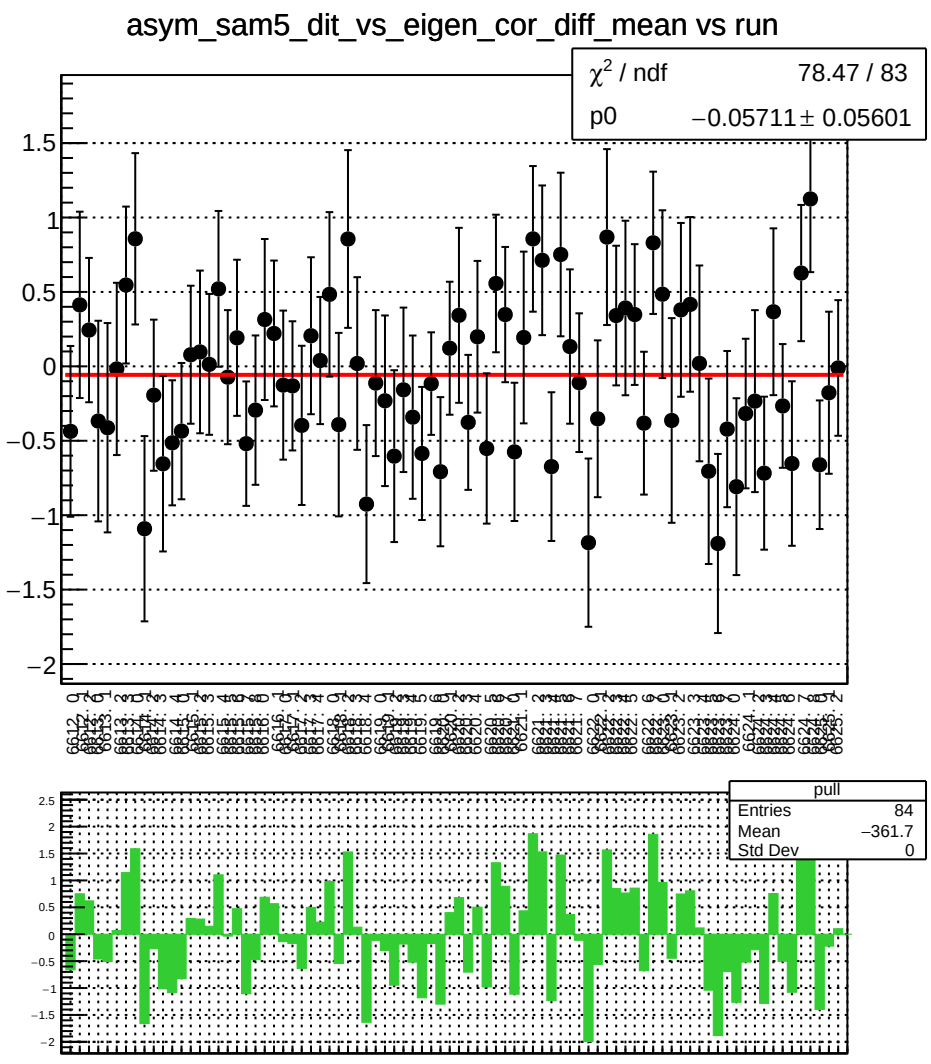

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 68.88 / 83
p0 1.998e−14 ± 1.796e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 84
Mean 80.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

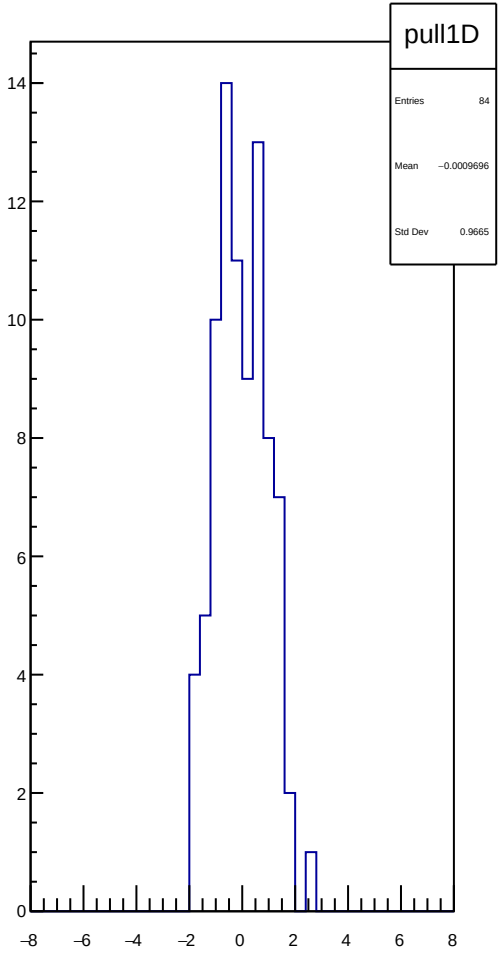

pull1D
Entries 84
Mean −0.02102
Std Dev 0.9053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

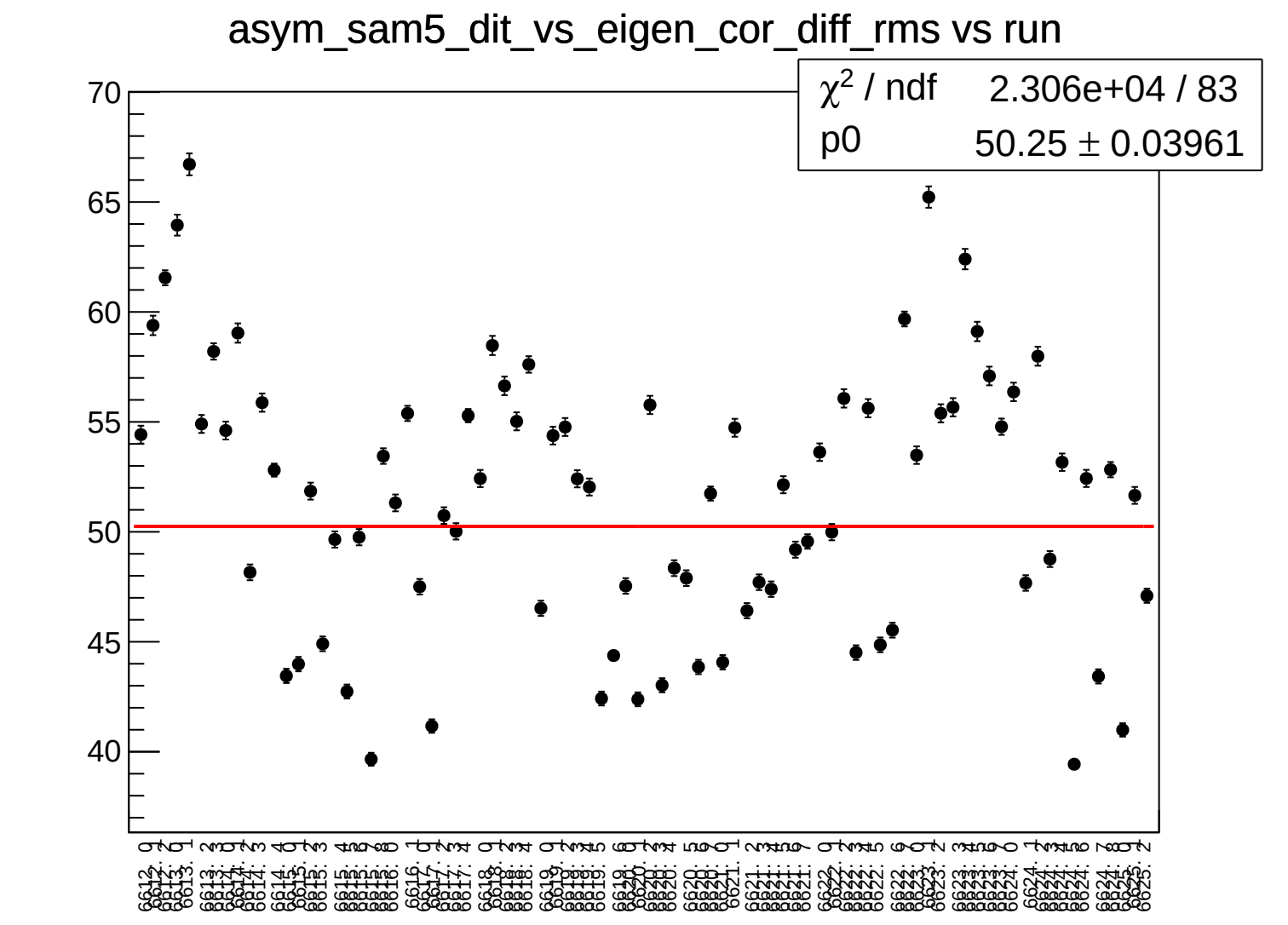

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.03e+06 / 83
p0 9.856e−12 ± 1.27e−14
0.1
0.08
0.06
0.04
0.02
0

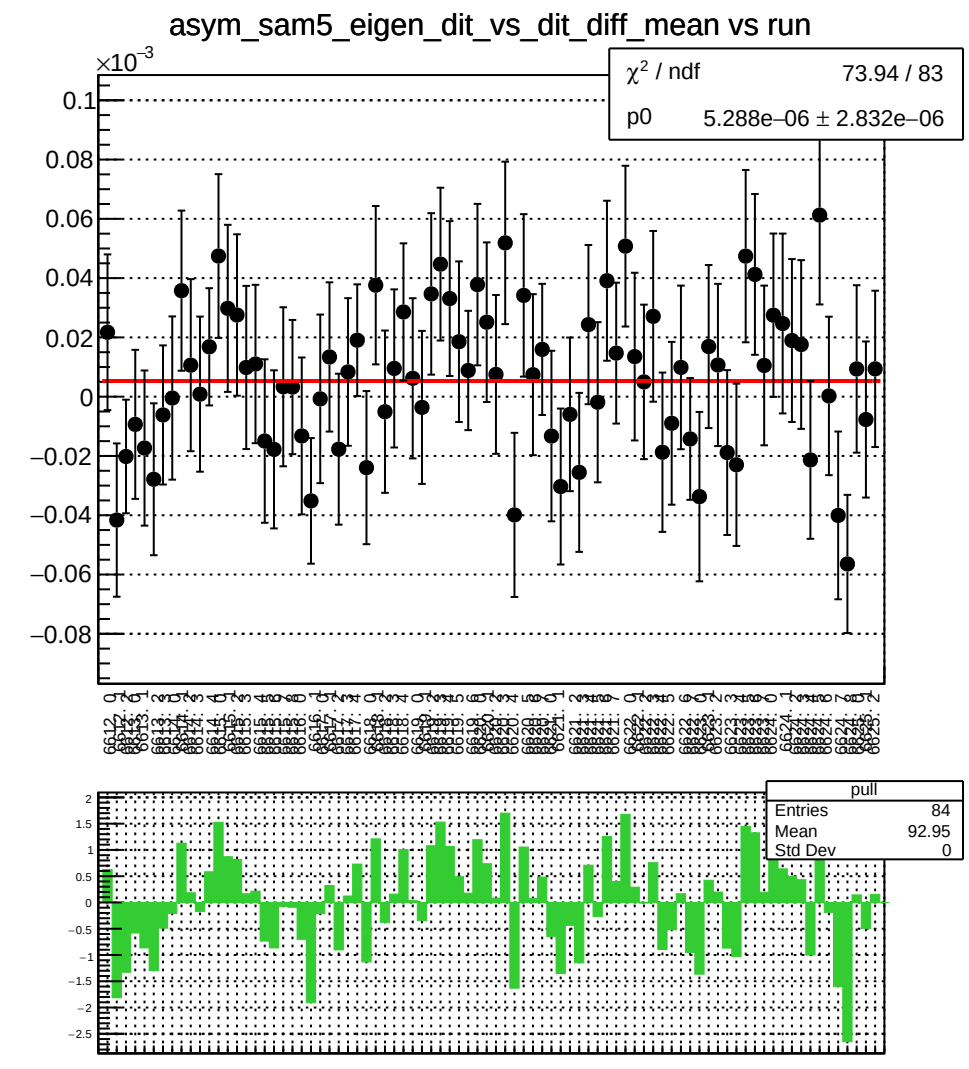

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 78.47 / 83
p0 −0.05711 ± 0.05601
pull
Entries 84
Mean −361.7
Std Dev 0
pull1D
Entries 84
Mean −0.0009696
Std Dev 0.9665

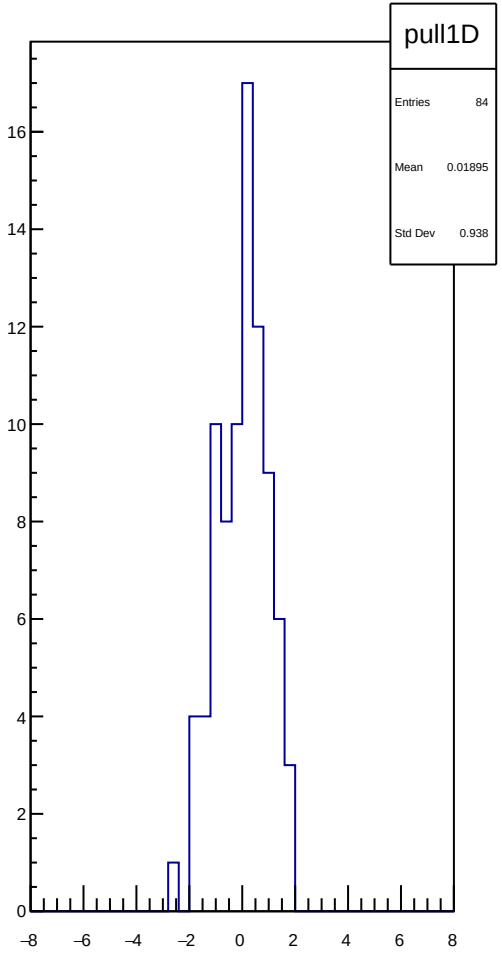

asym_sam5_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.306e+04 / 83
p0 50.25 ± 0.03961
70
65
60
55
50
45
40

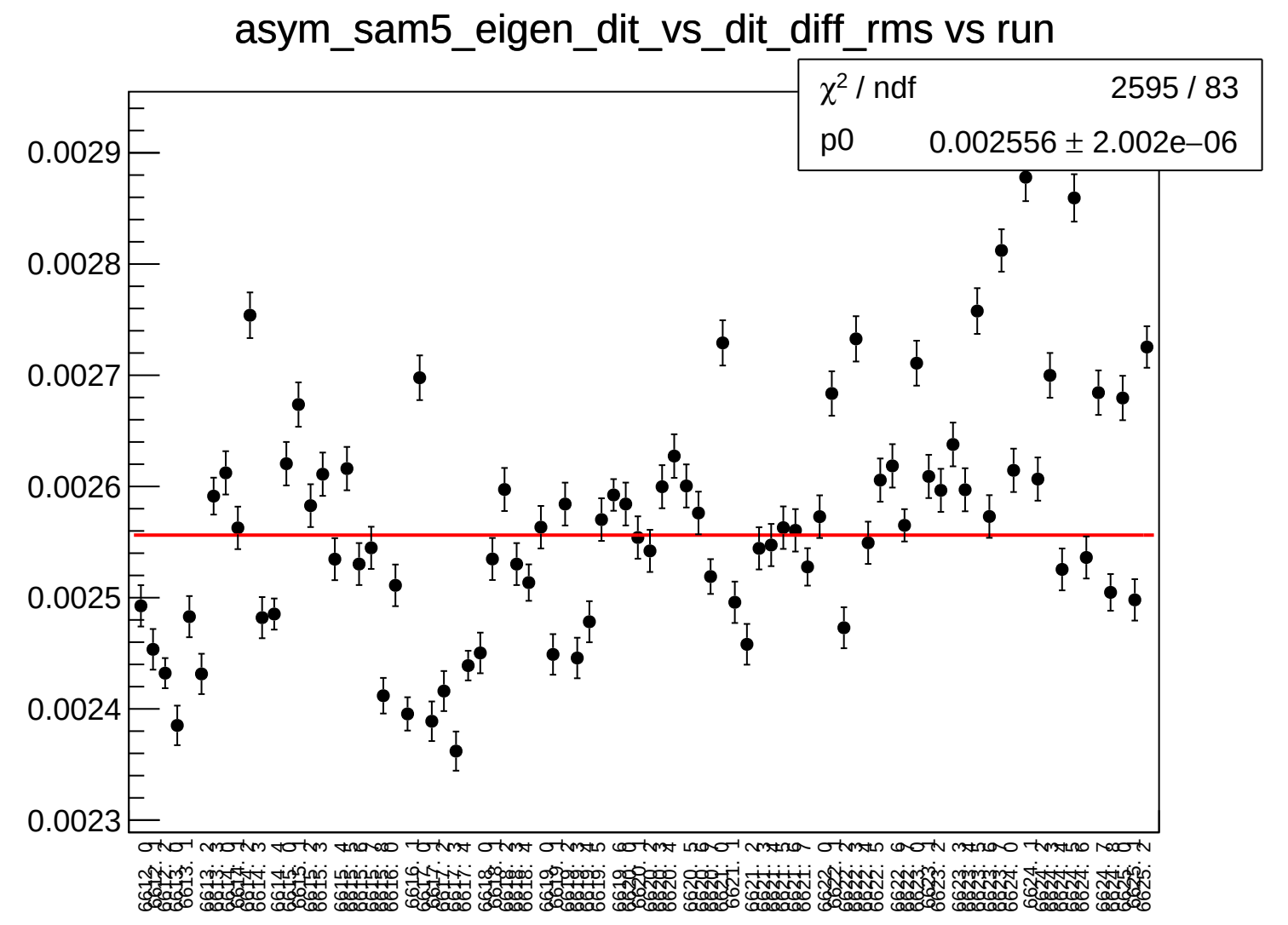

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.47 / 83
p0 −0.05711 ± 0.05601
pull
Entries 84
Mean −361.7
Std Dev 0

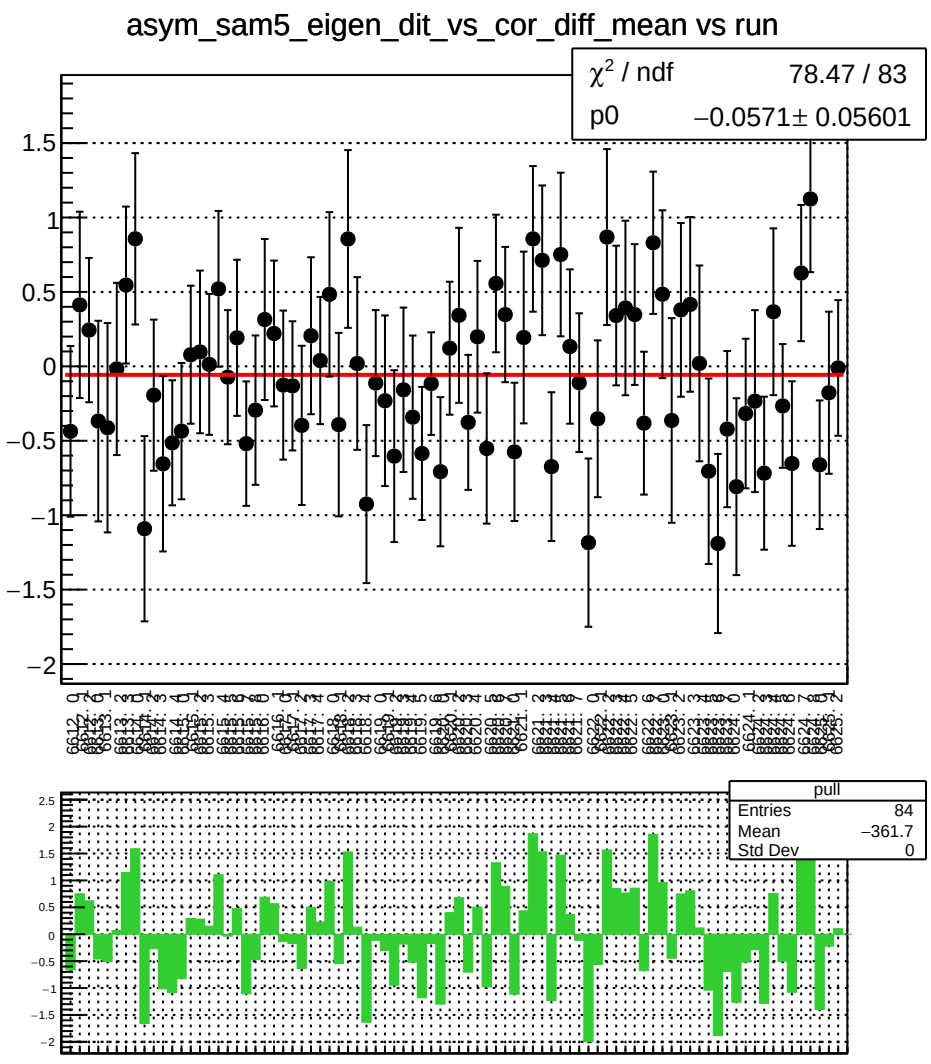

pull1D
Entries 84
Mean −0.0009696
Std Dev 0.9665

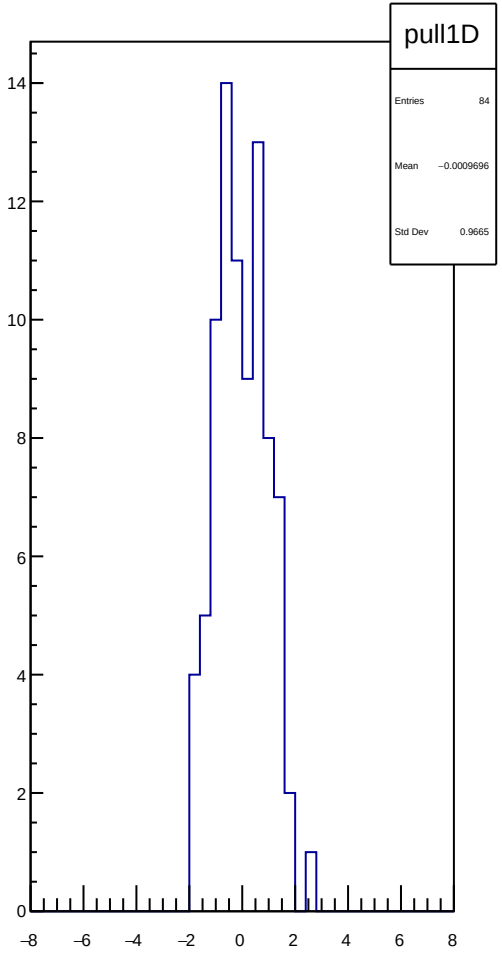

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.306e+04 / 83
p0 50.25 ± 0.03961
70
65
60
55
50
45
40

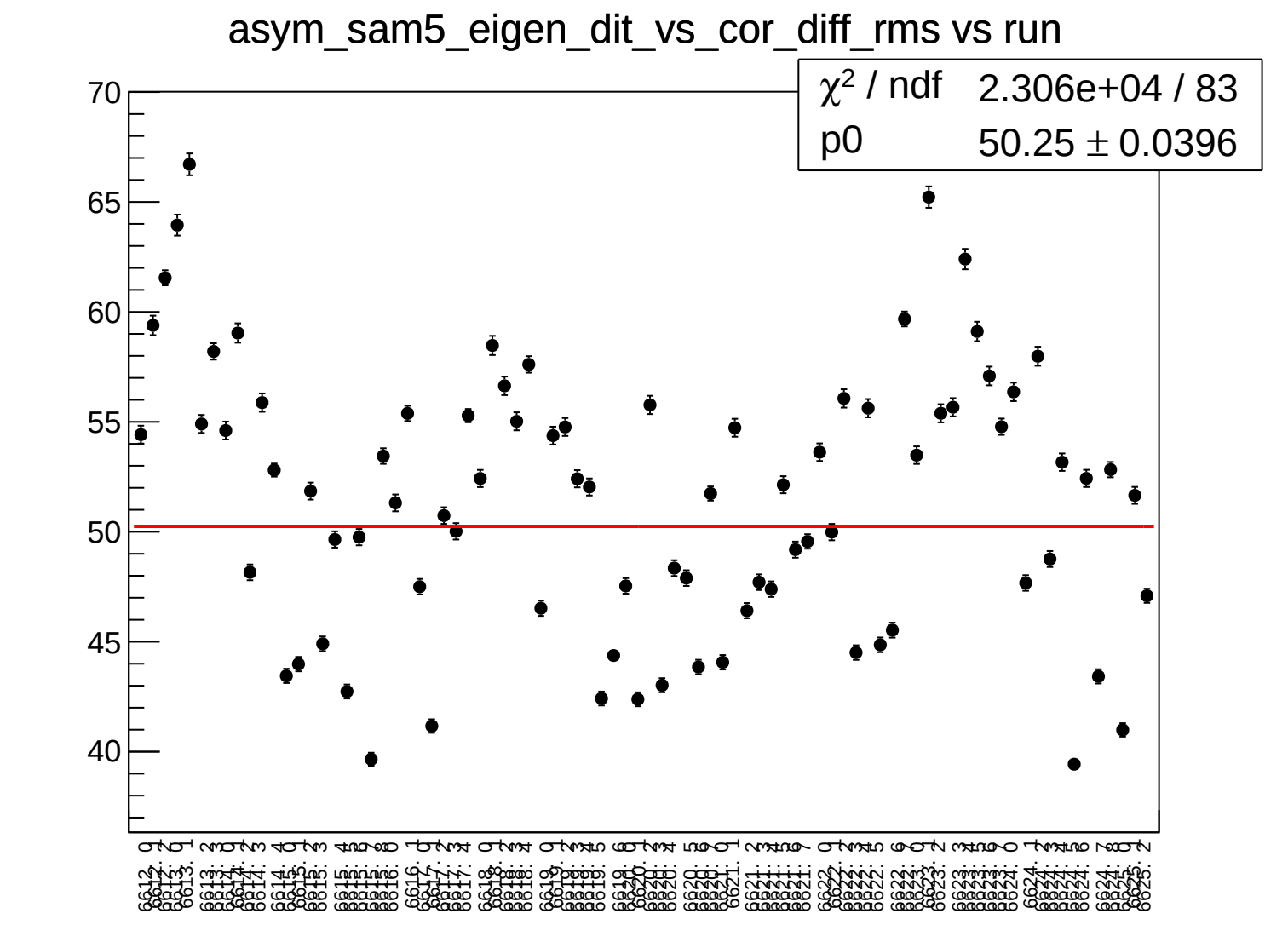

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.94 / 83
p0 5.288e−06 ± 2.832e−06
pull
Entries 84
Mean 92.95
Std Dev 0

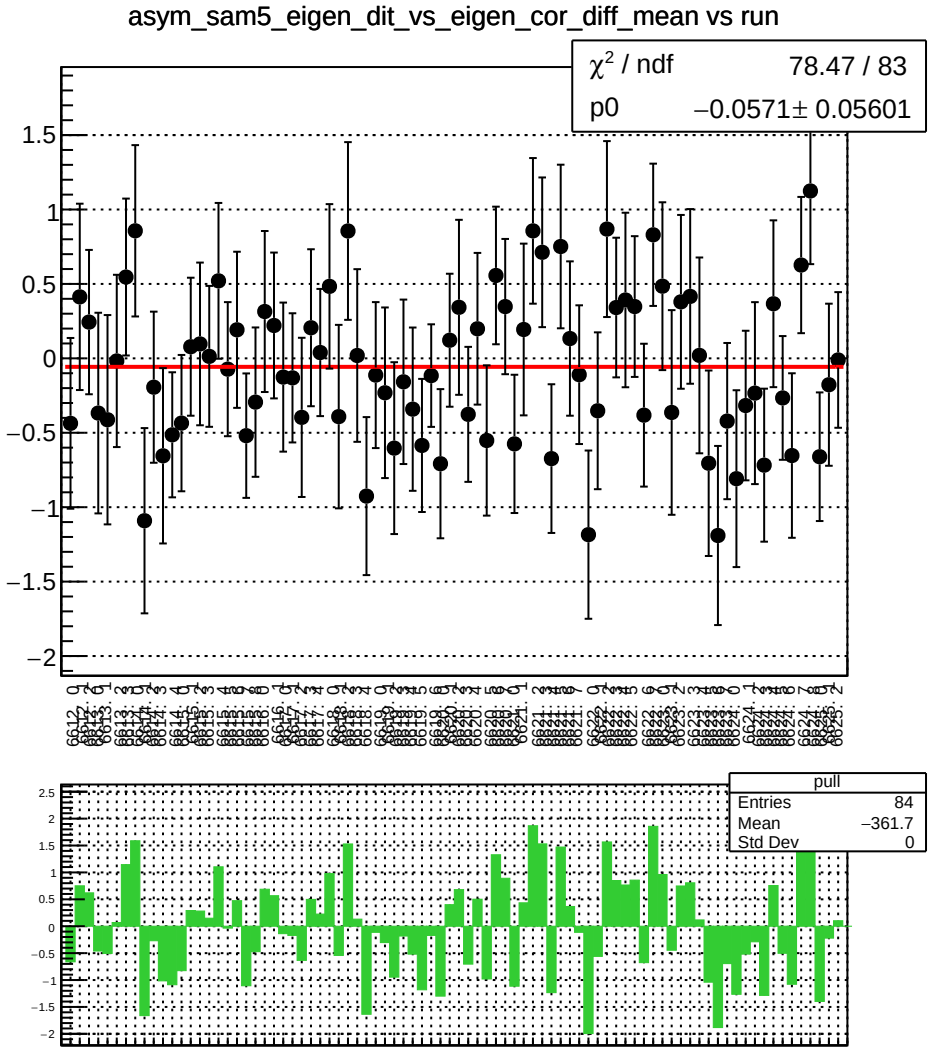

pull1D
Entries 84
Mean 0.01895
Std Dev 0.938

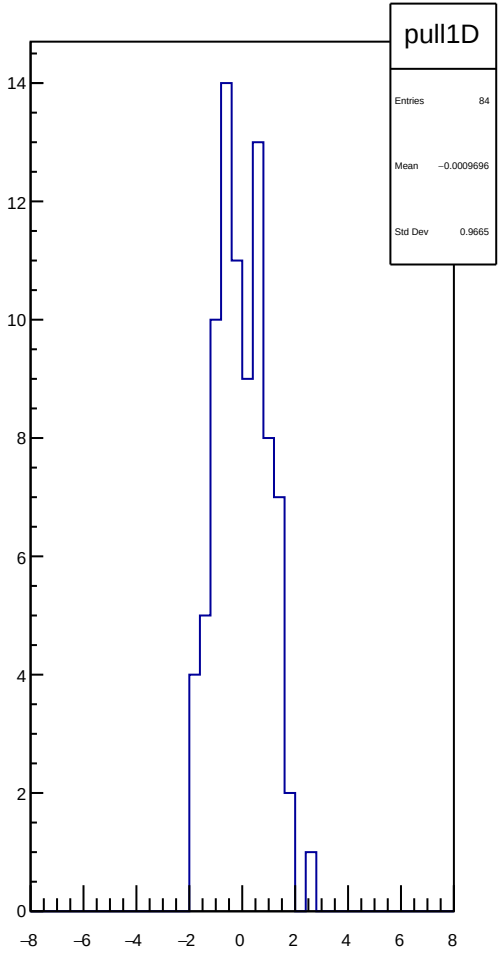

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2595 / 83
p0 0.002556 ± 2.002e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023

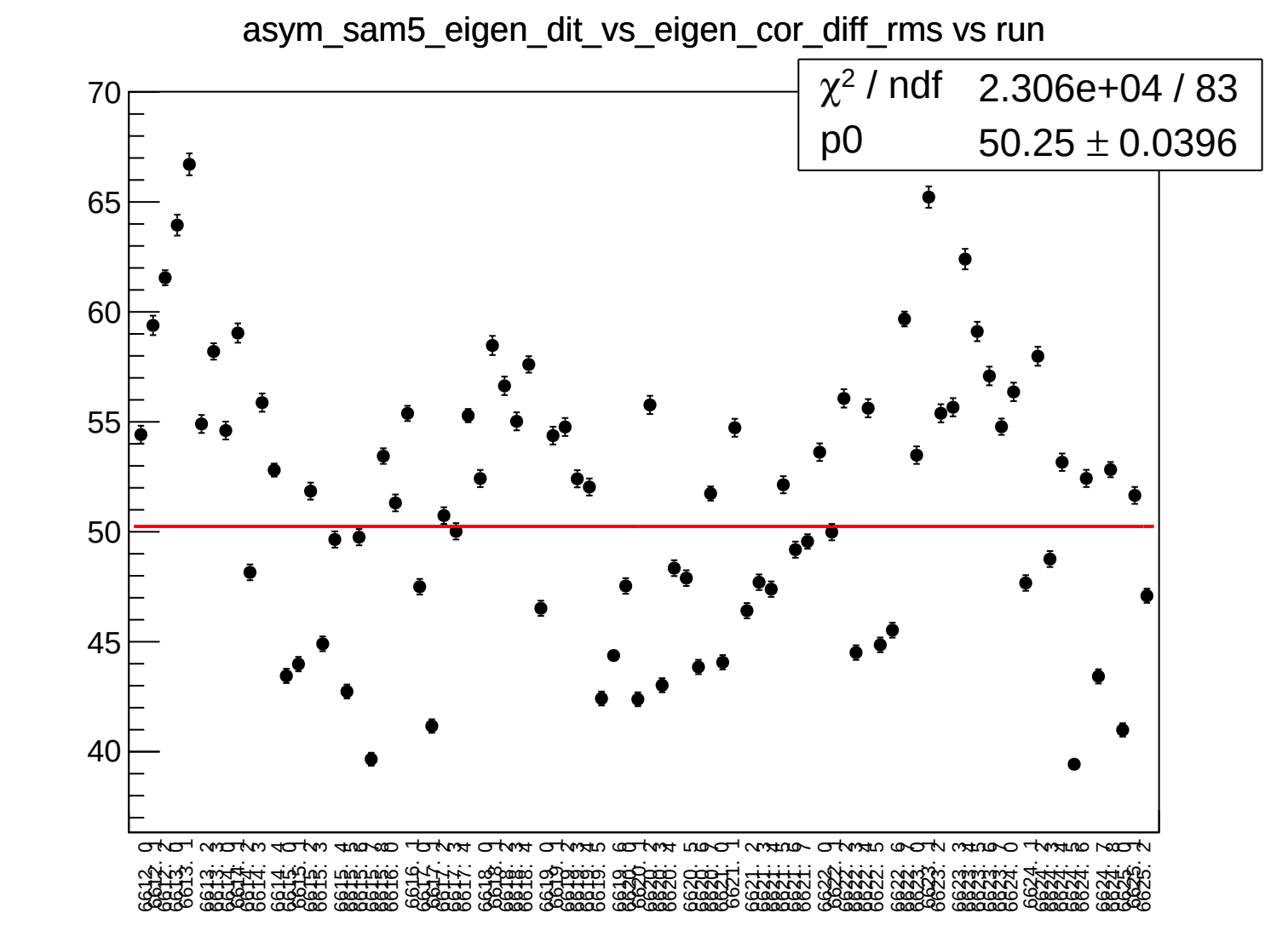

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.47 / 83
p0 −0.0571± 0.05601
pull
Entries 84
Mean −361.7
Std Dev 0

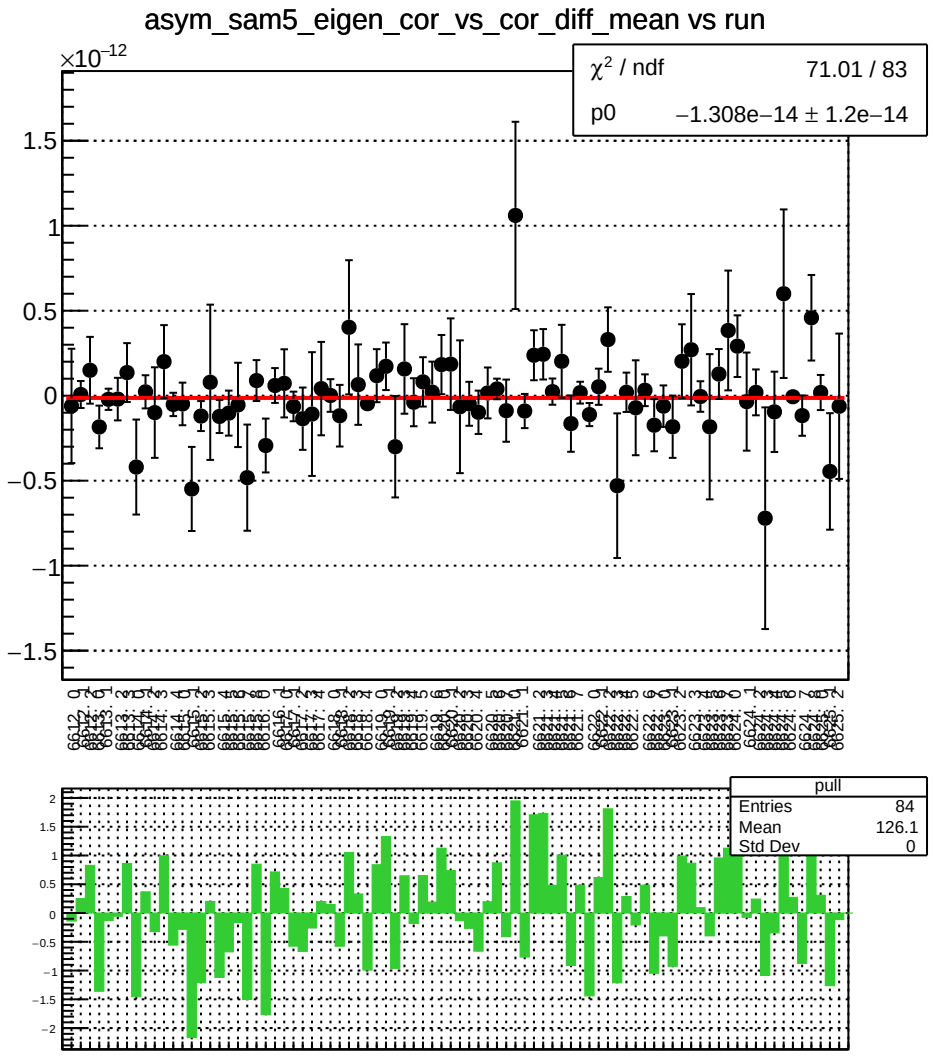

pull1D
Entries 84
Mean −0.0009696
Std Dev 0.9665

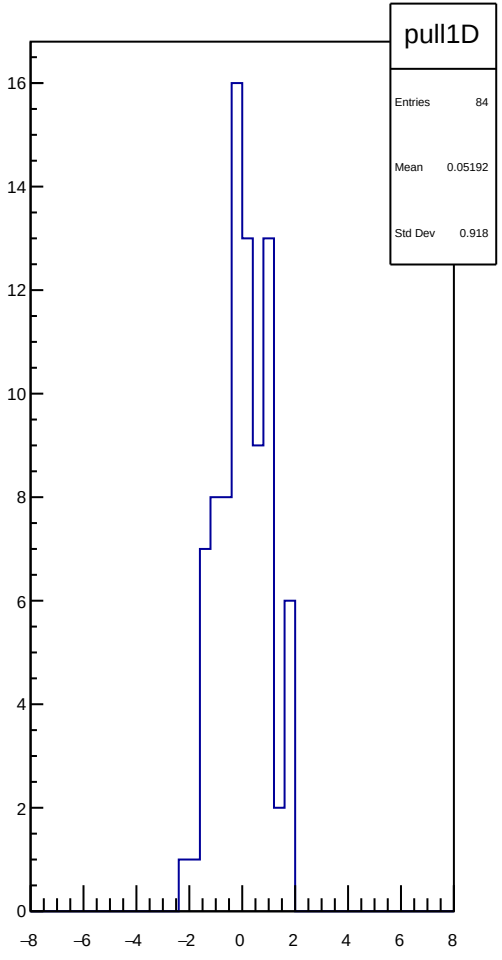

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.306e+04 / 83
p0 50.25 ± 0.0396
70
65
60
55
50
45
40

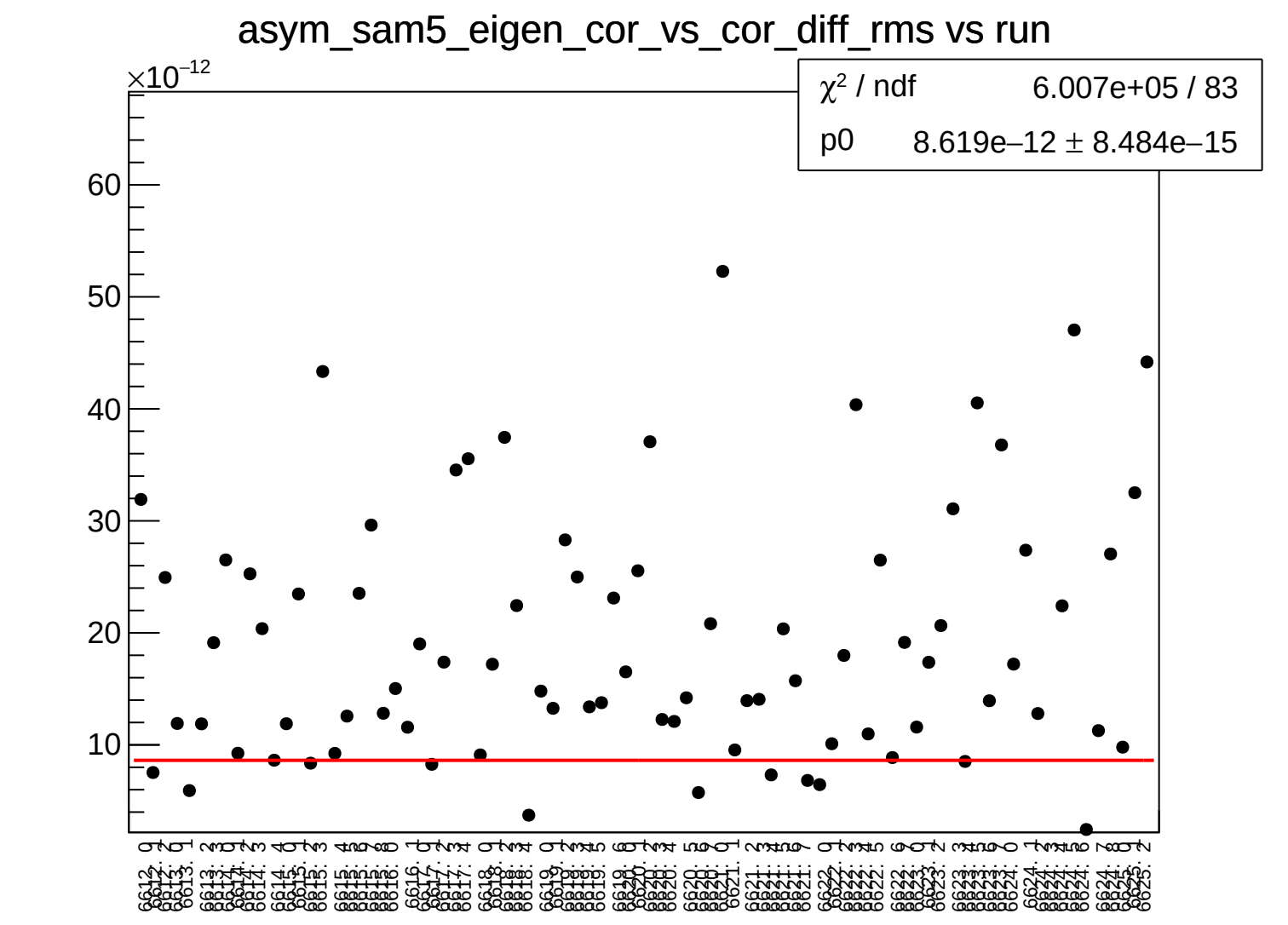

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.47 / 83
p0 −0.0571± 0.05601
pull
Entries 84
Mean −361.7
Std Dev 0

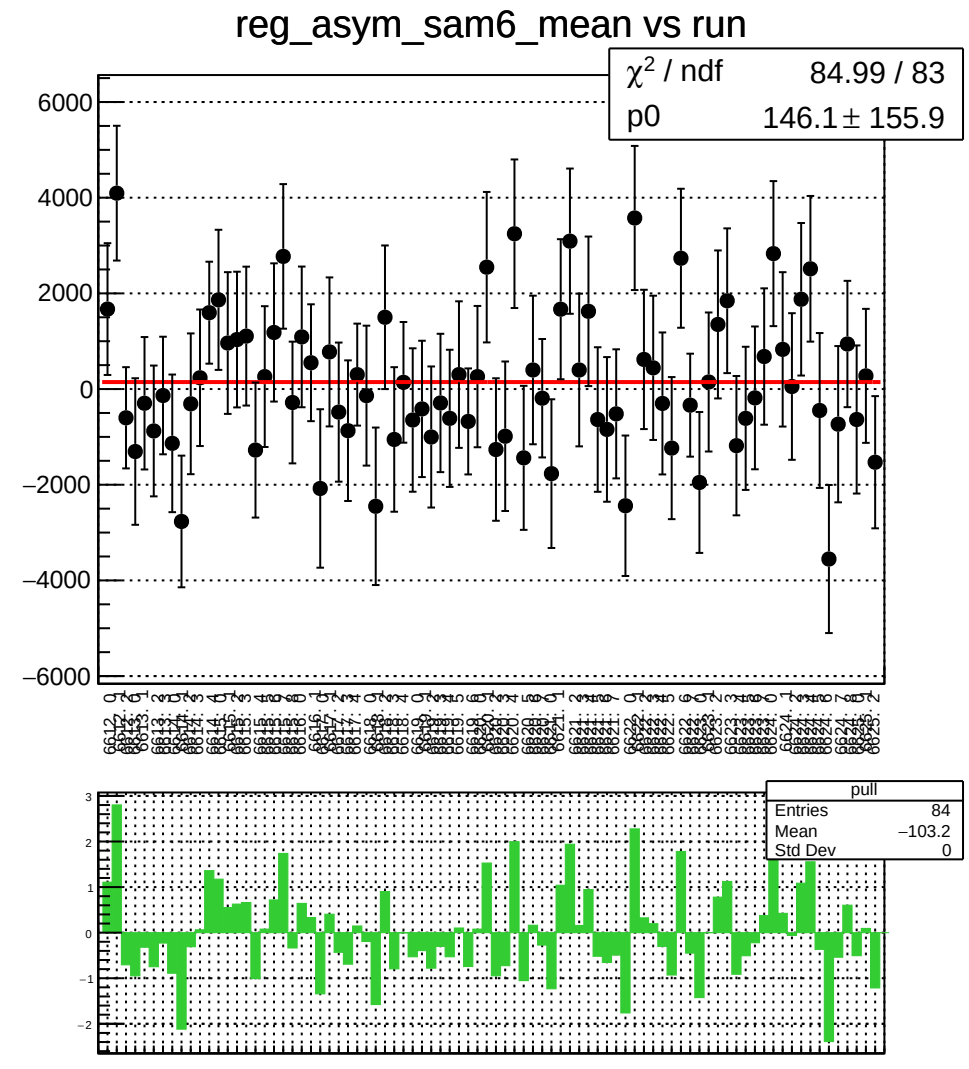

pull1D
Entries 84
Mean −0.0009696
Std Dev 0.9665

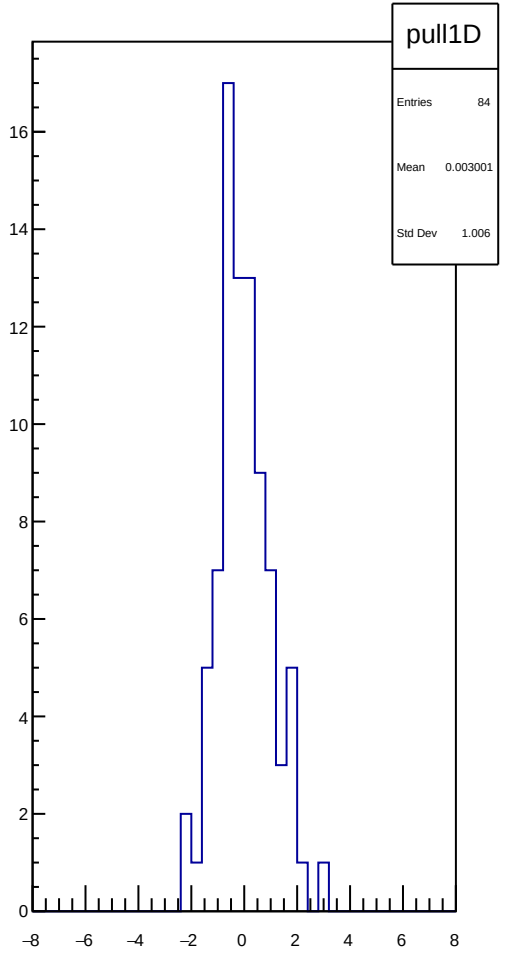

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.306e+04 / 83
p0 50.25 ± 0.0396
70
65
60
55
50
45
40

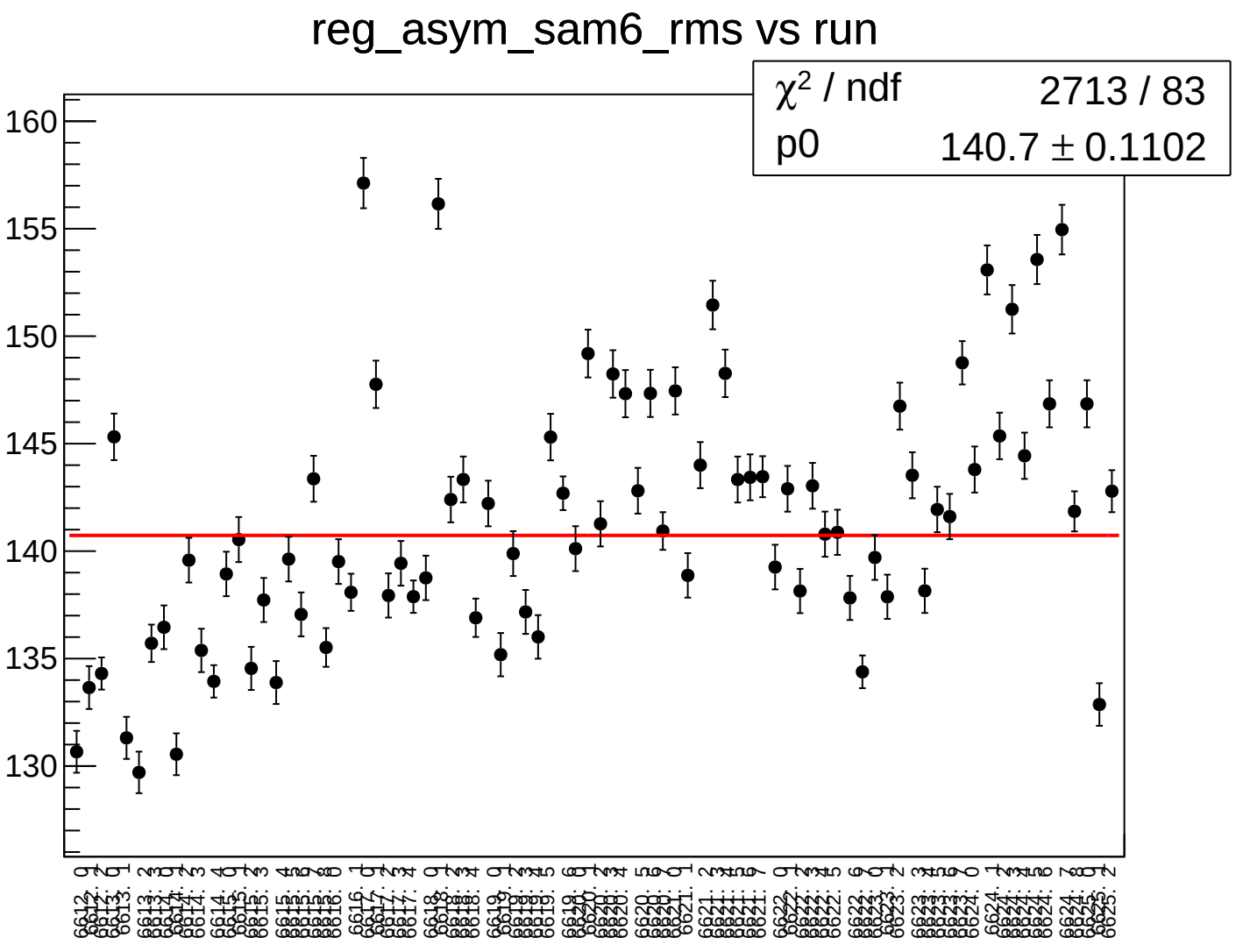

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.01 / 83
p0 −1.308e−14 ± 1.2e−14
pull
Entries 84
Mean 126.1
Std Dev 0

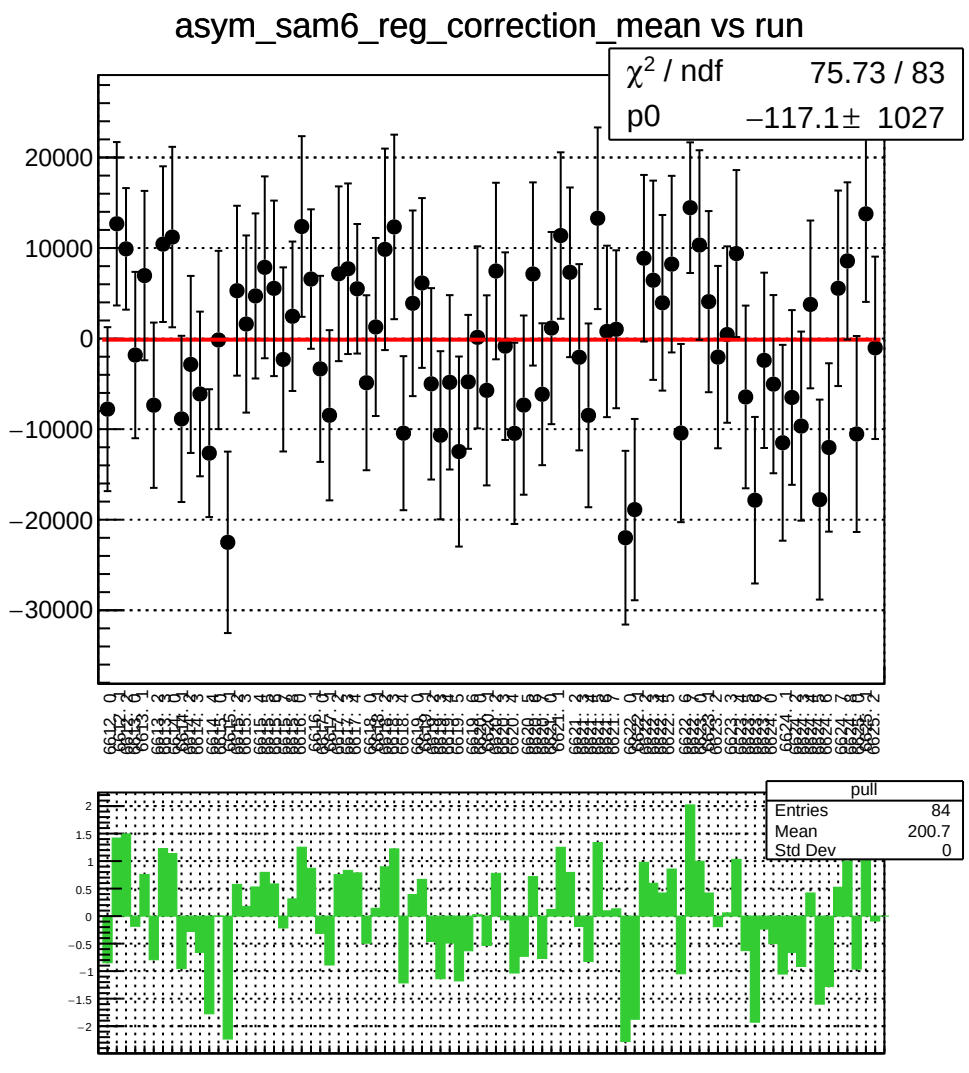

pull1D
Entries 84
Mean 0.05192
Std Dev 0.918

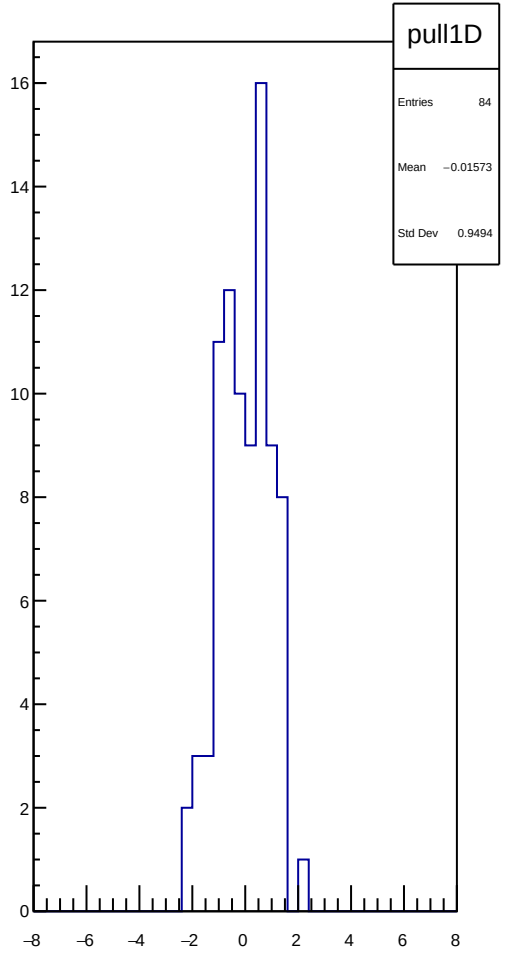

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.007e+05 / 83
p0 8.619e−12 ± 8.484e−15
60
50
40
30
20
10

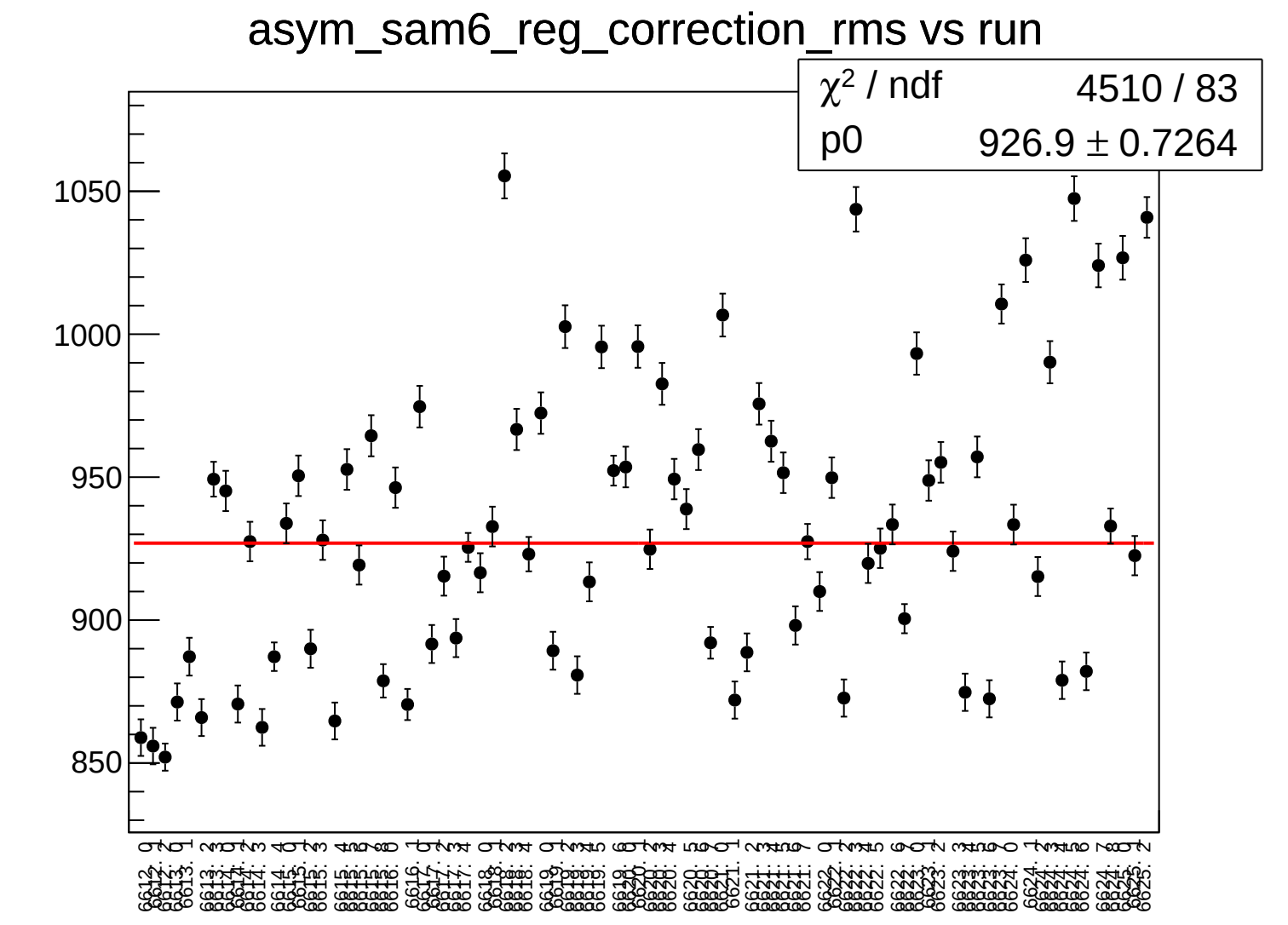

reg_asym_sam6_mean vs run
χ² / ndf 84.99 / 83
p0 146.1 ± 155.9
pull
Entries 84
Mean −103.2
Std Dev 0

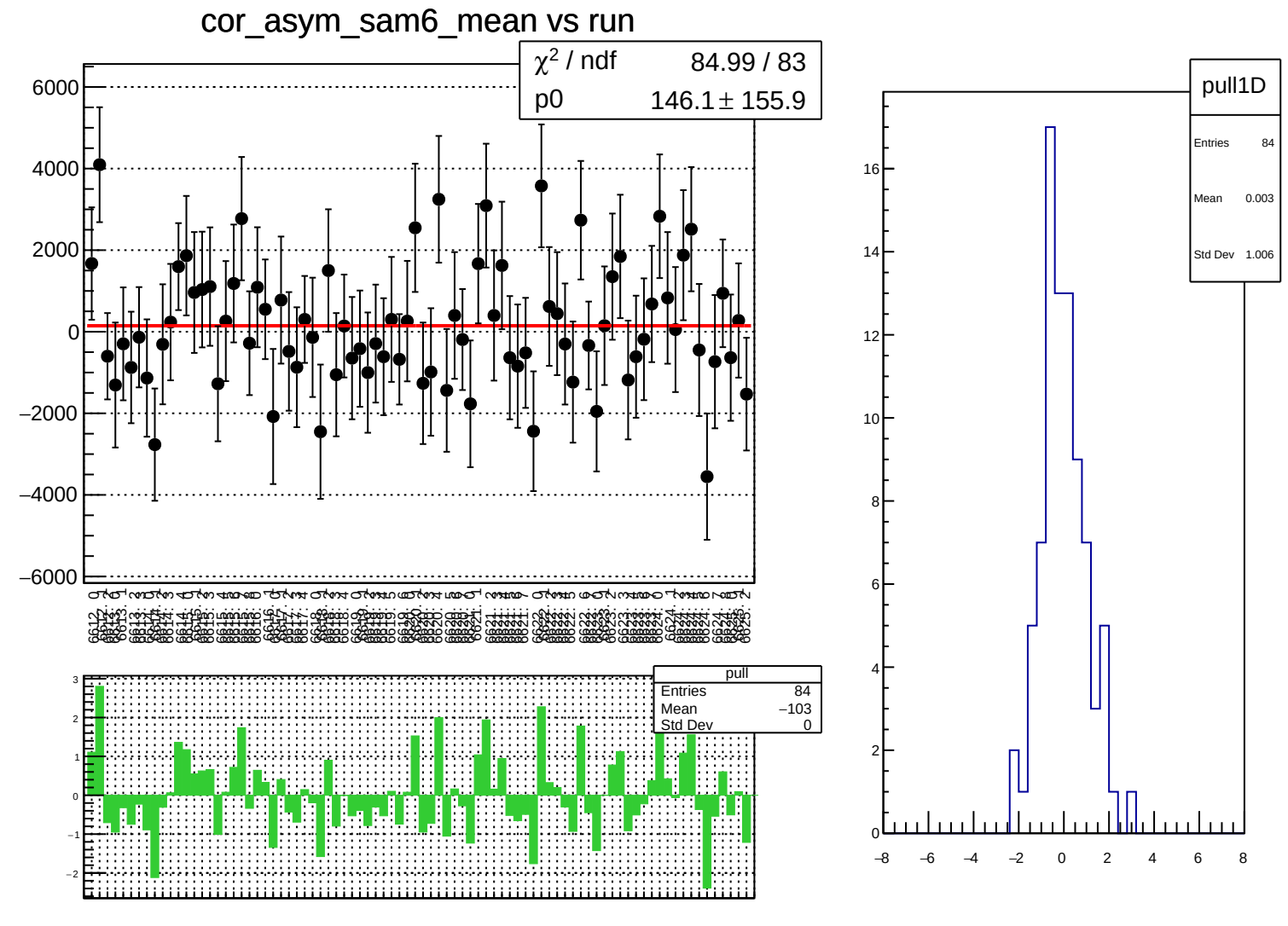

pull1D
Entries 84
Mean 0.003001
Std Dev 1.006

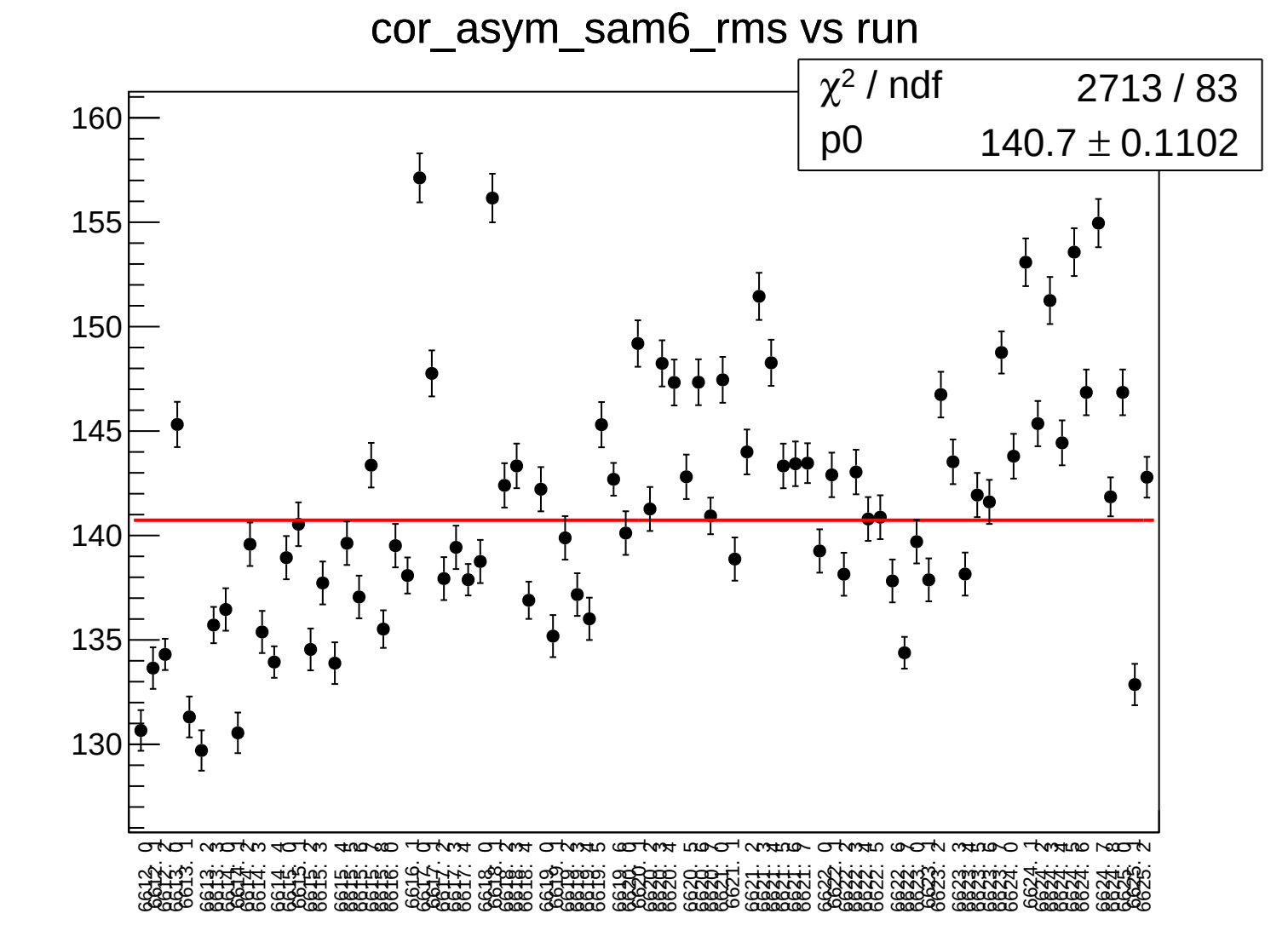

reg_asym_sam6_rms vs run
χ² / ndf 2713 / 83
p0 140.7 ± 0.1102
160
155
150
145
140
135
130

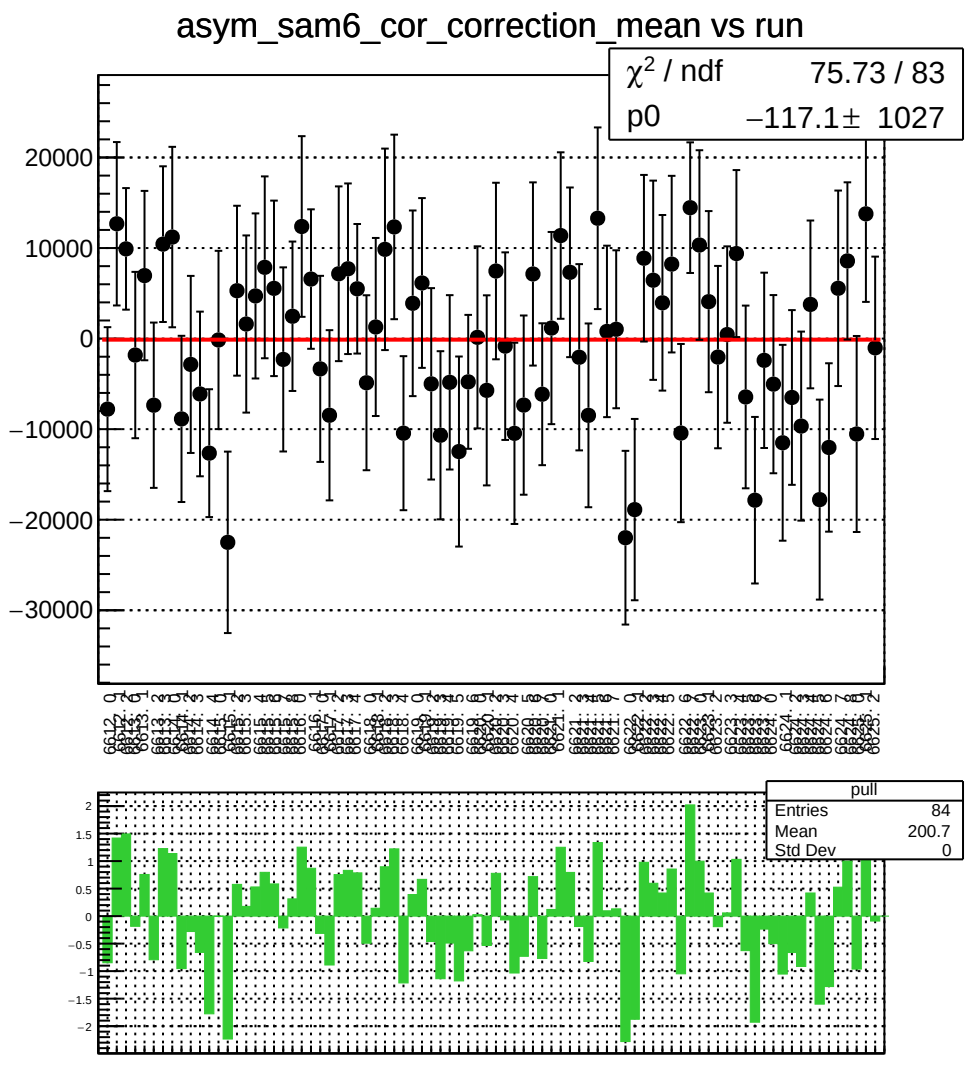

asym_sam6_reg_correction_mean vs run
χ² / ndf 75.73 / 83
p0 −117.1± 1027
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 200.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

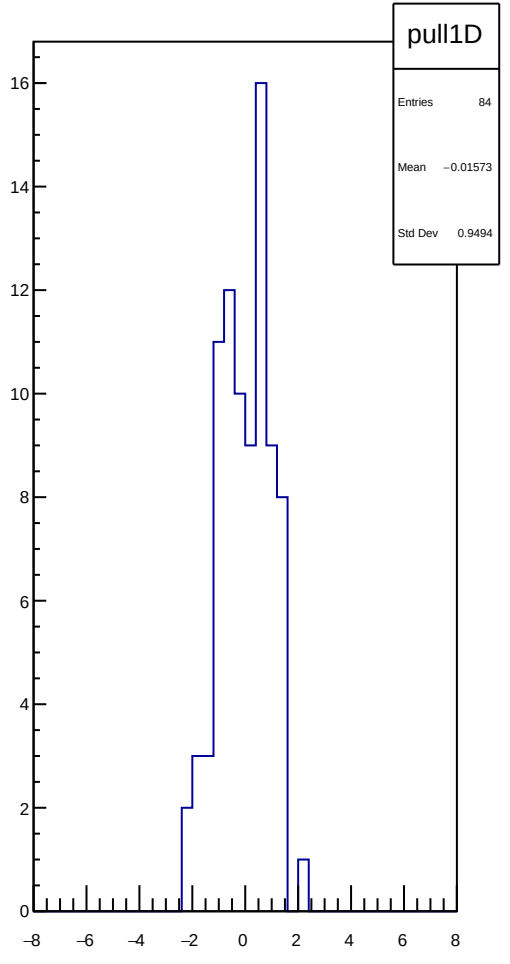

pull1D
Entries 84
Mean −0.01573
Std Dev 0.9494
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

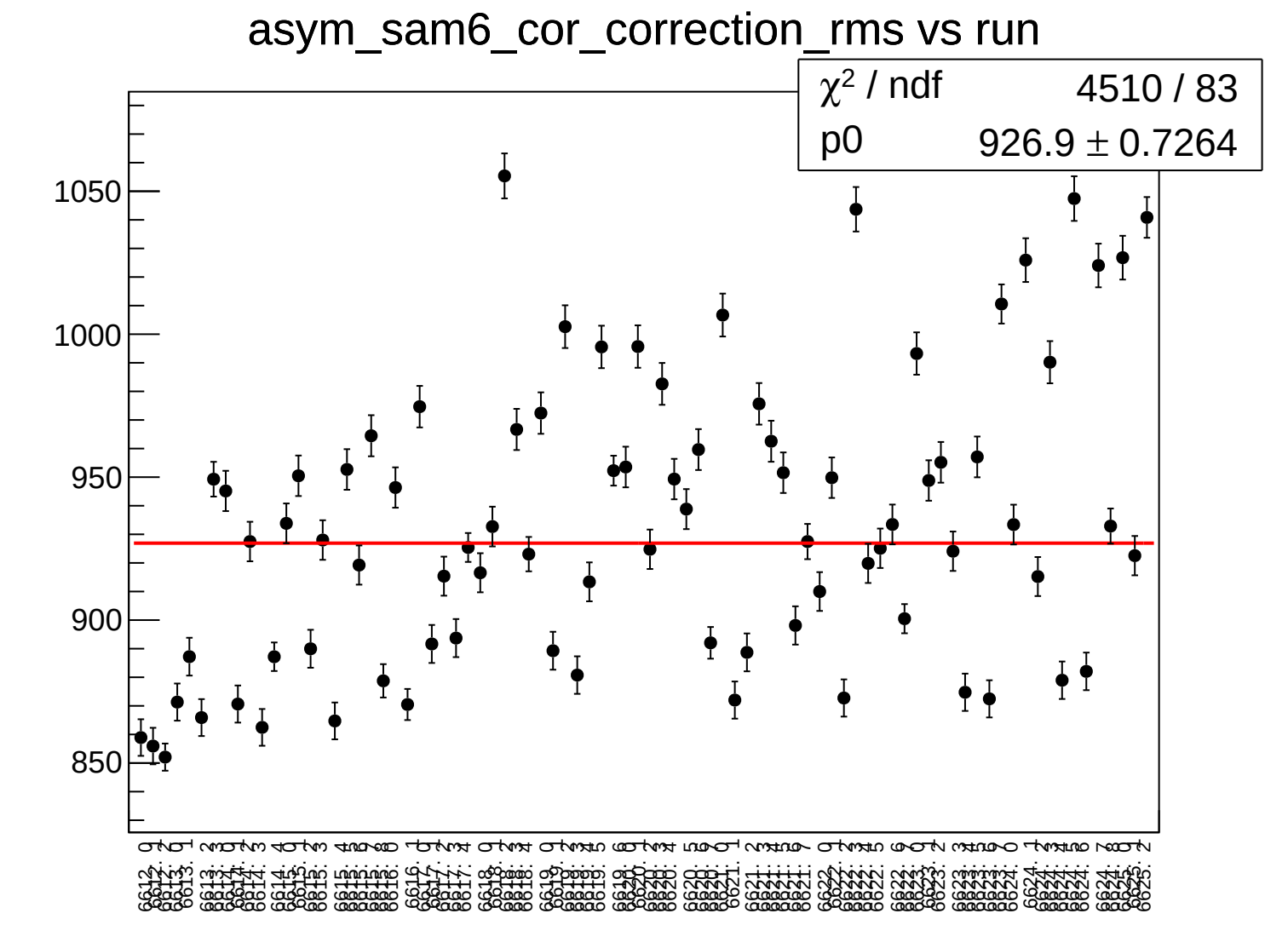

asym_sam6_reg_correction_rms vs run
χ² / ndf 4510 / 83
p0 926.9 ± 0.7264
1050
1000
950
900
850

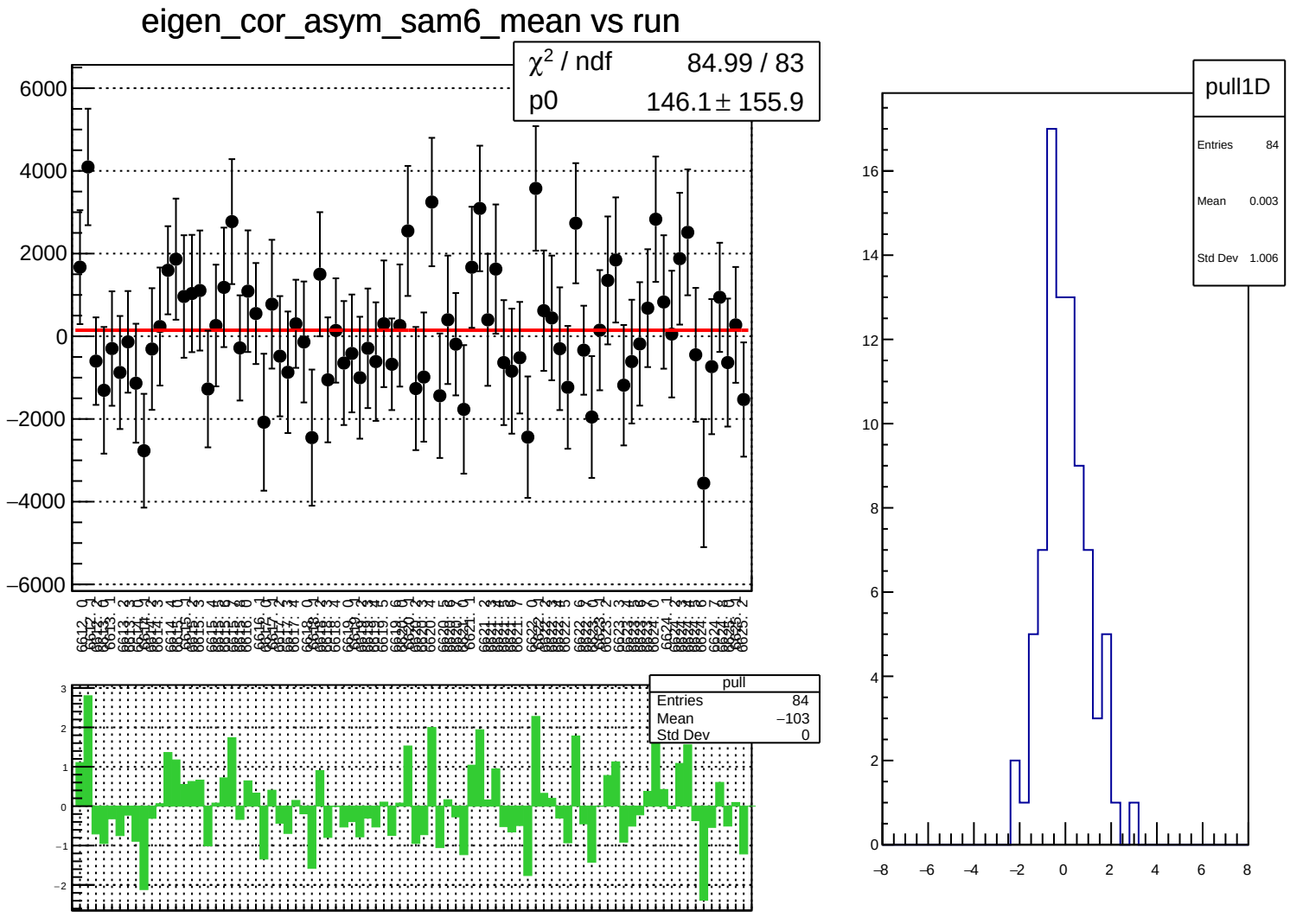

cor_asym_sam6_mean vs run
χ² / ndf 84.99 / 83
p0 146.1 ± 155.9
pull
Entries 84
Mean −103
Std Dev 0
pull1D
Entries 84
Mean 0.003
Std Dev 1.006

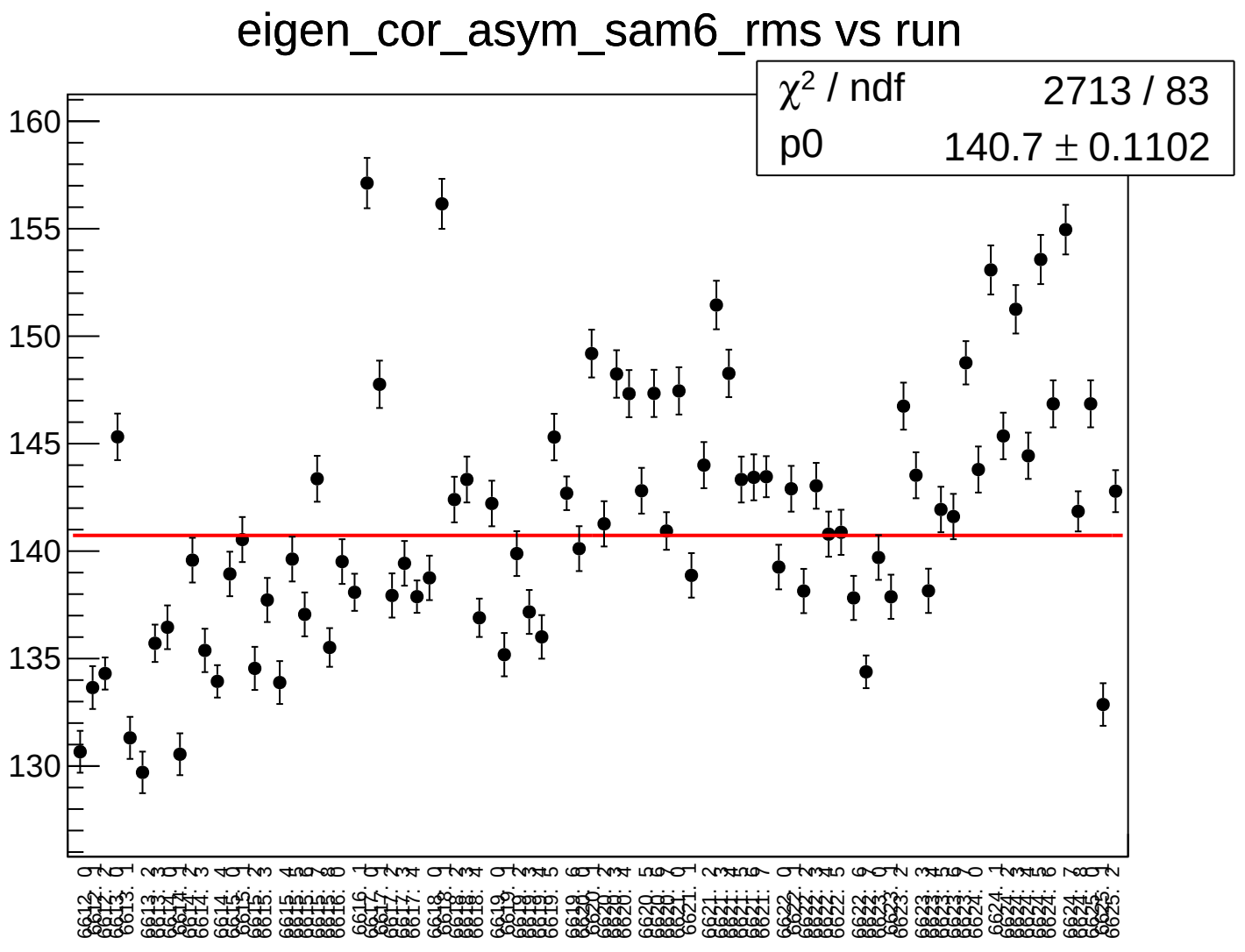

cor_asym_sam6_rms vs run
χ² / ndf 2713 / 83
p0 140.7 ± 0.1102
160
155
150
145
140
135
130

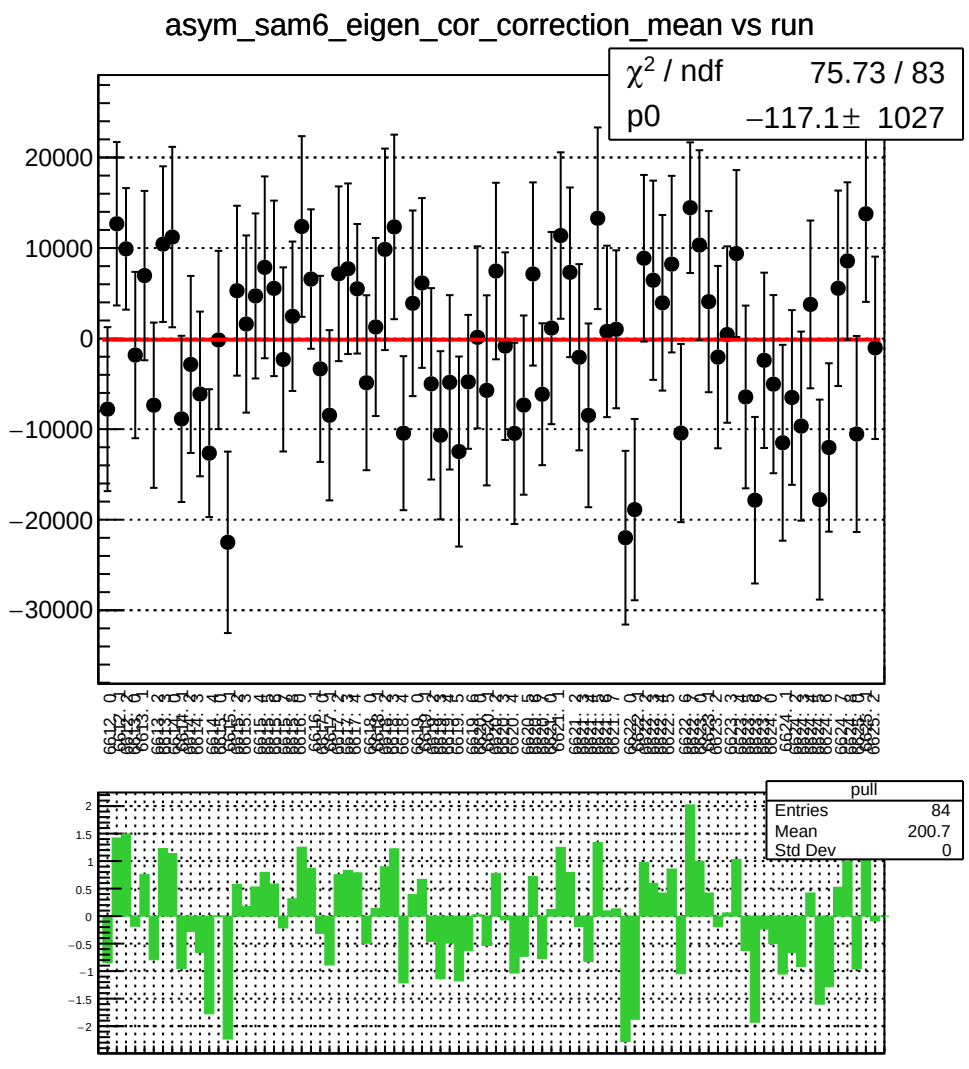

asym_sam6_cor_correction_mean vs run
χ² / ndf 75.73 / 83
p0 −117.1± 1027
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 200.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

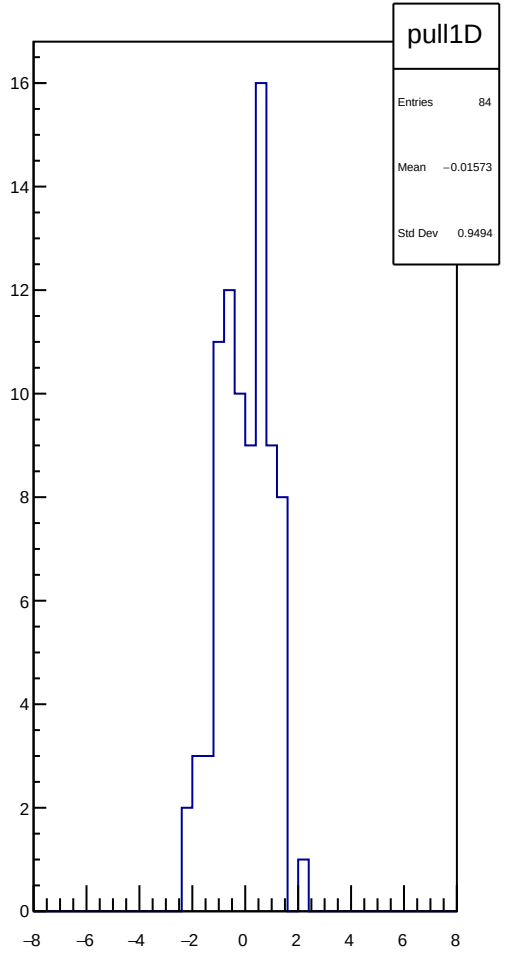

pull1D
Entries 84
Mean −0.01573
Std Dev 0.9494
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

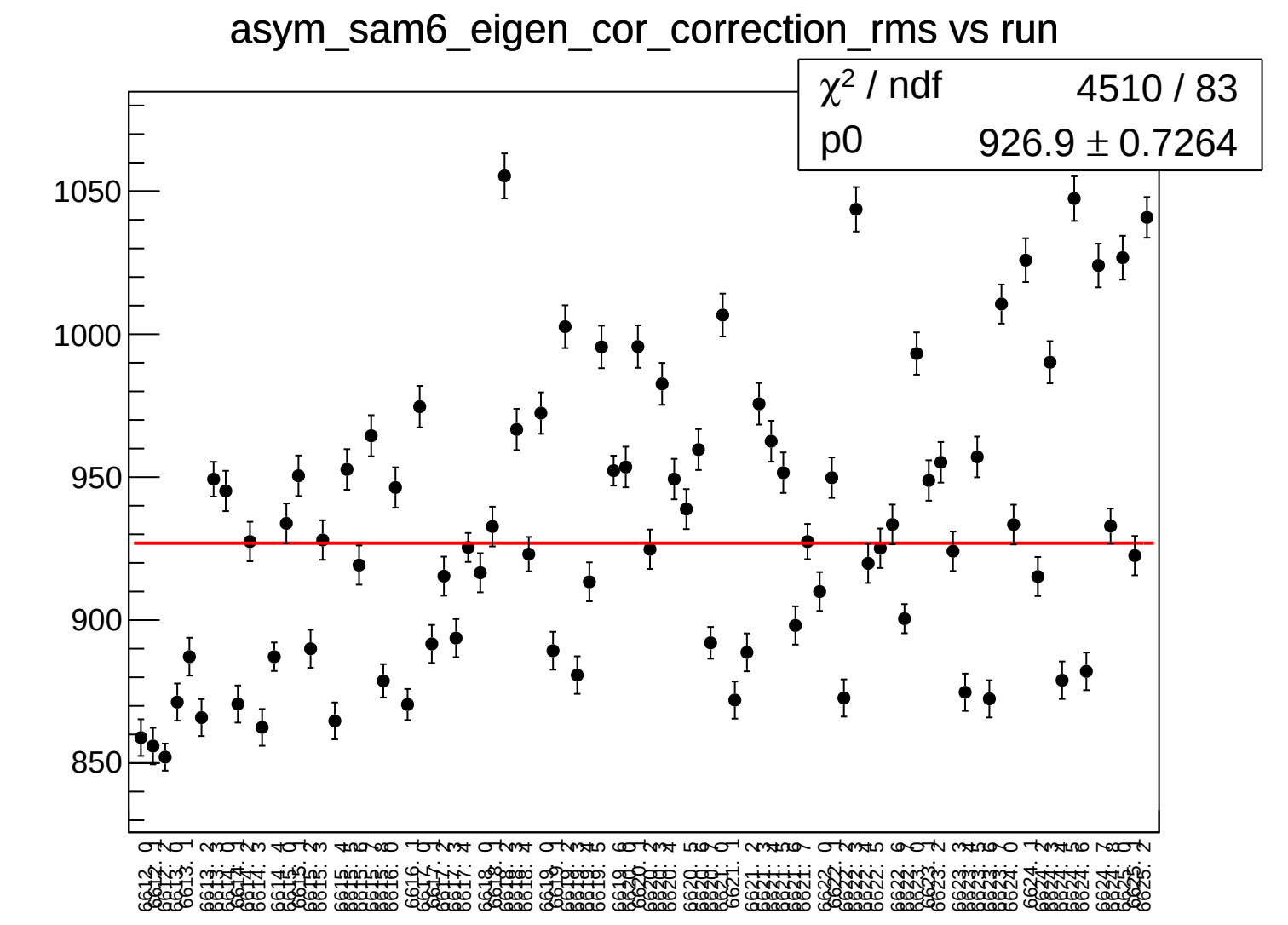

asym_sam6_cor_correction_rms vs run
χ² / ndf 4510 / 83
p0 926.9 ± 0.7264
1050
1000
950
900
850

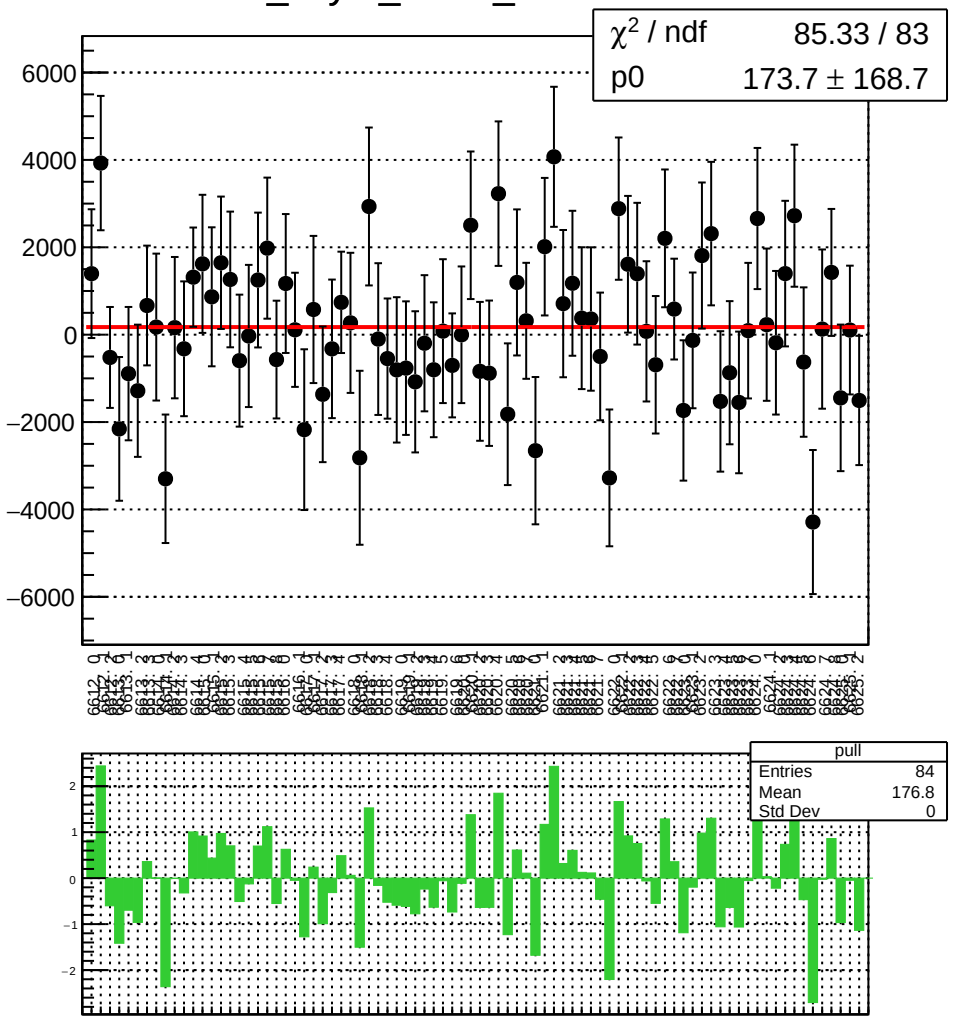

eigen_cor_asym_sam6_mean vs run
χ² / ndf 84.99 / 83
p0 146.1 ± 155.9
pull
Entries 84
Mean −103
Std Dev 0
pull1D
Entries 84
Mean 0.003
Std Dev 1.006

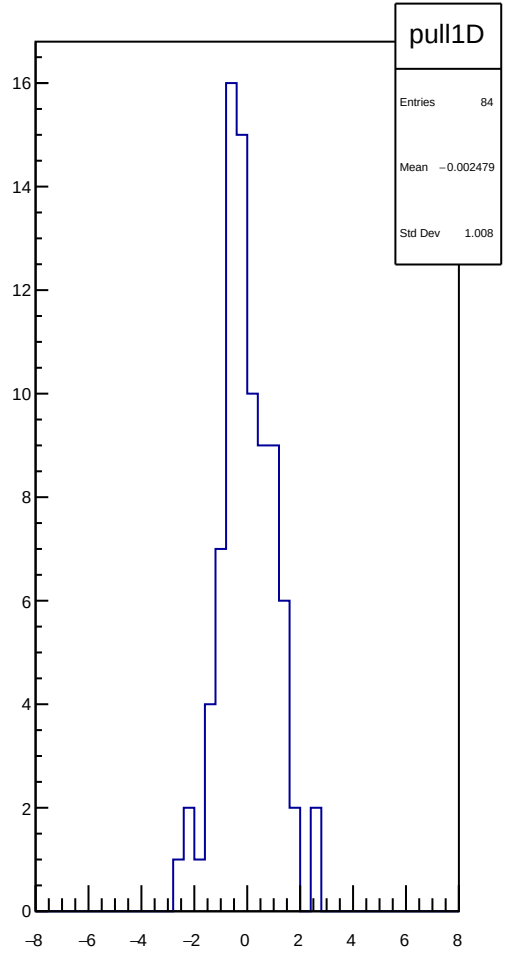

eigen_cor_asym_sam6_rms vs run
χ² / ndf 2713 / 83
p0 140.7 ± 0.1102
160
155
150
145
140
135
130

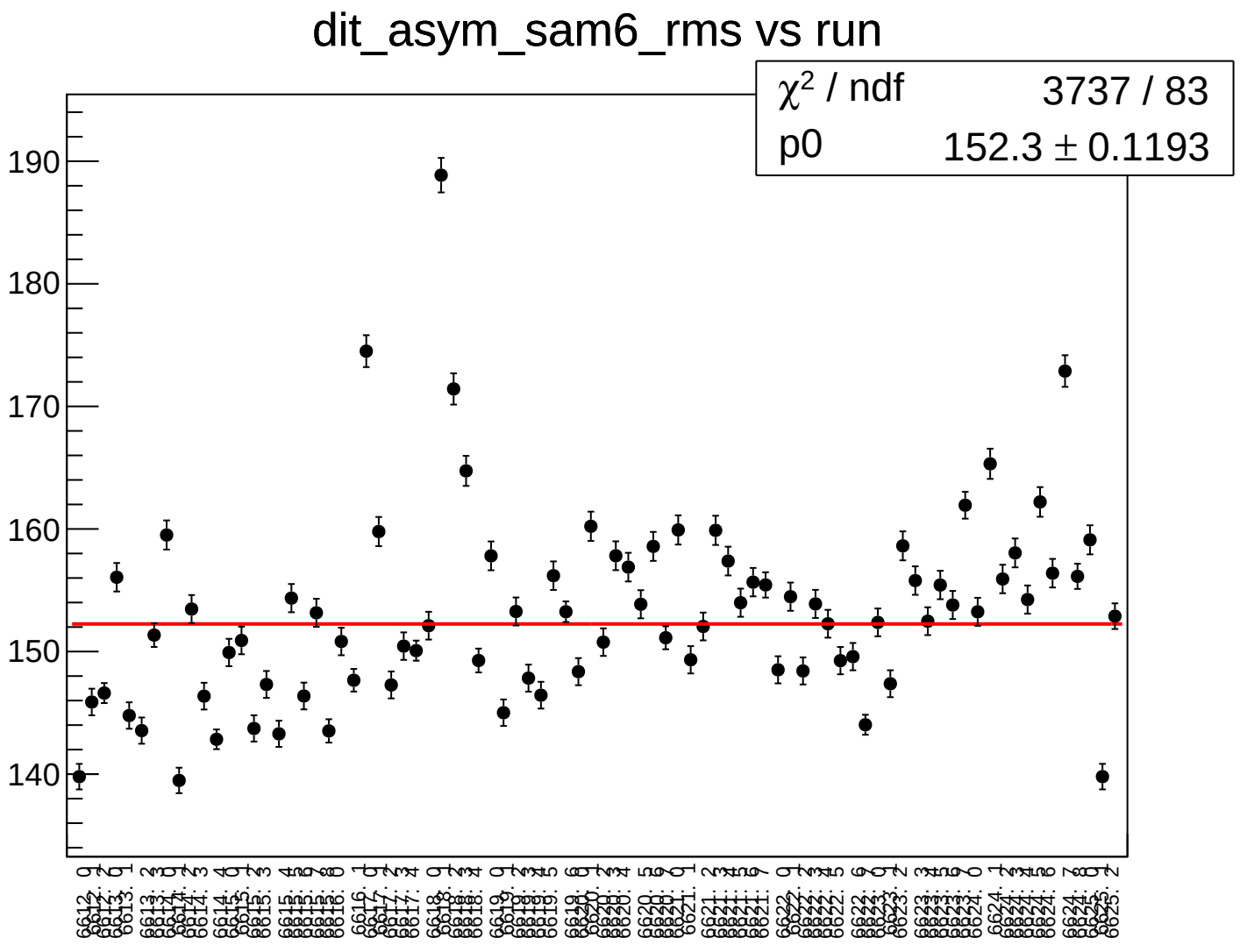

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 75.73 / 83
p0 −117.1± 1027
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 200.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

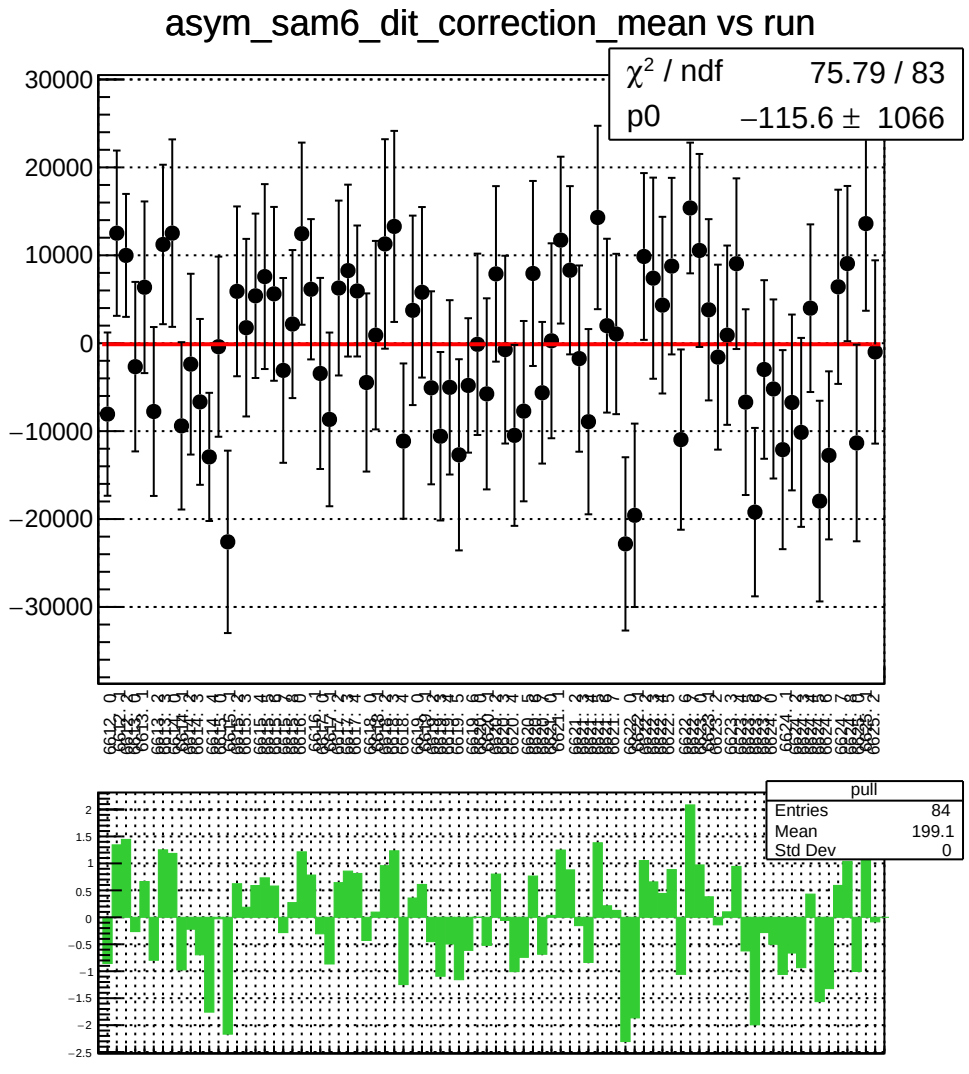

pull1D
Entries 84
Mean −0.01573
Std Dev 0.9494
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

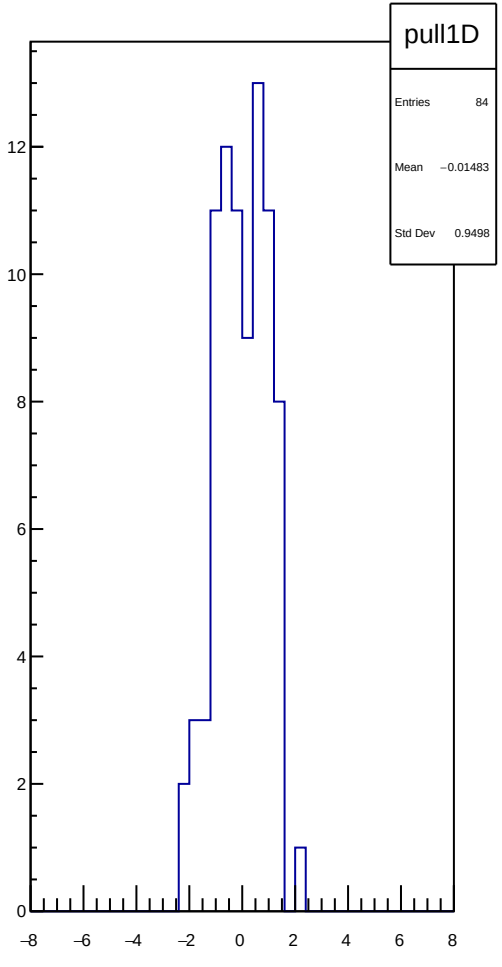

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 4510 / 83
p0 926.9 ± 0.7264
1050
1000
950
900
850

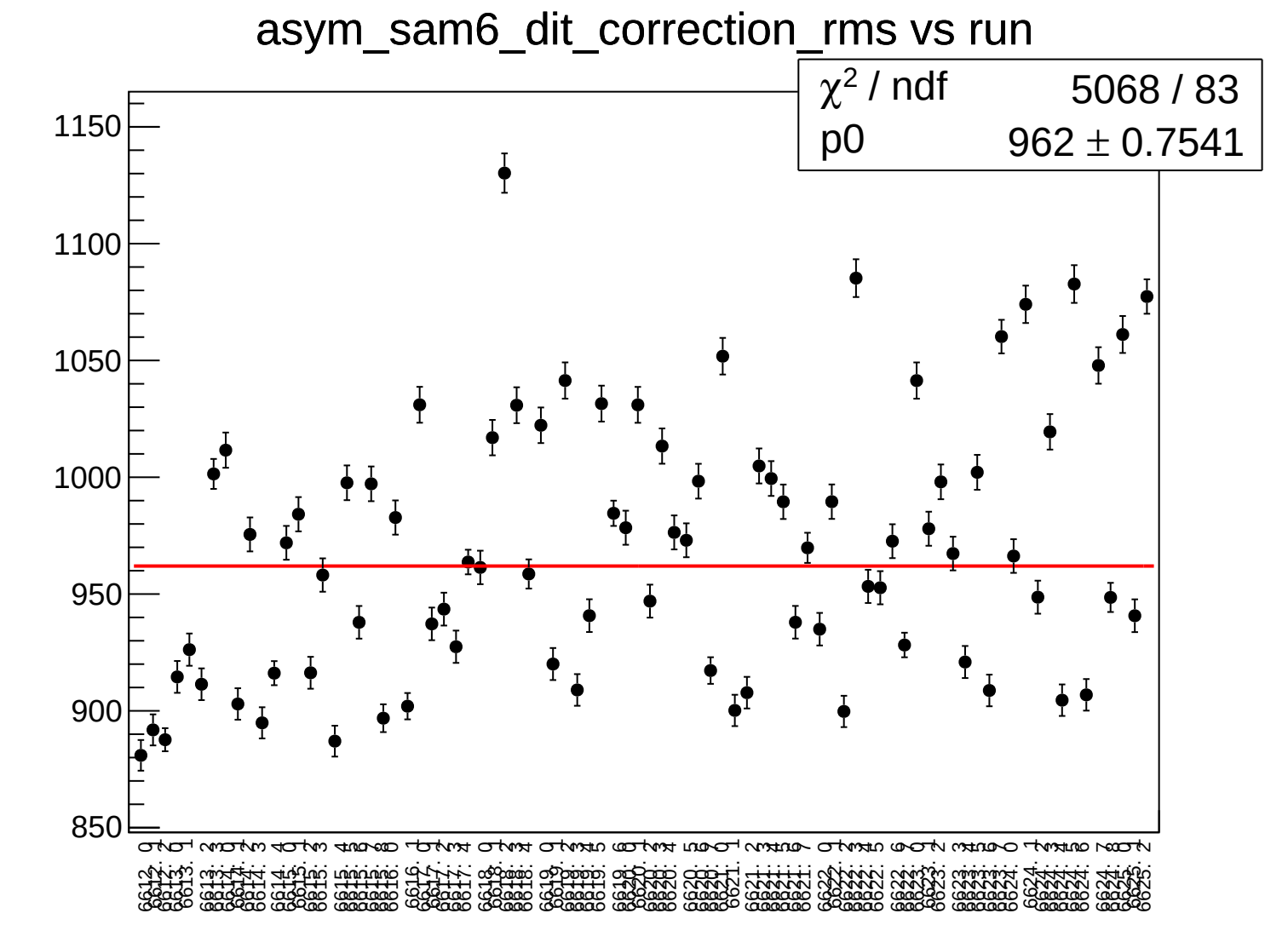

dit_asym_sam6_mean vs run
χ² / ndf 85.33 / 83
p0 173.7 ± 168.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 176.8
Std Dev 0
2
1
0
−1
−2

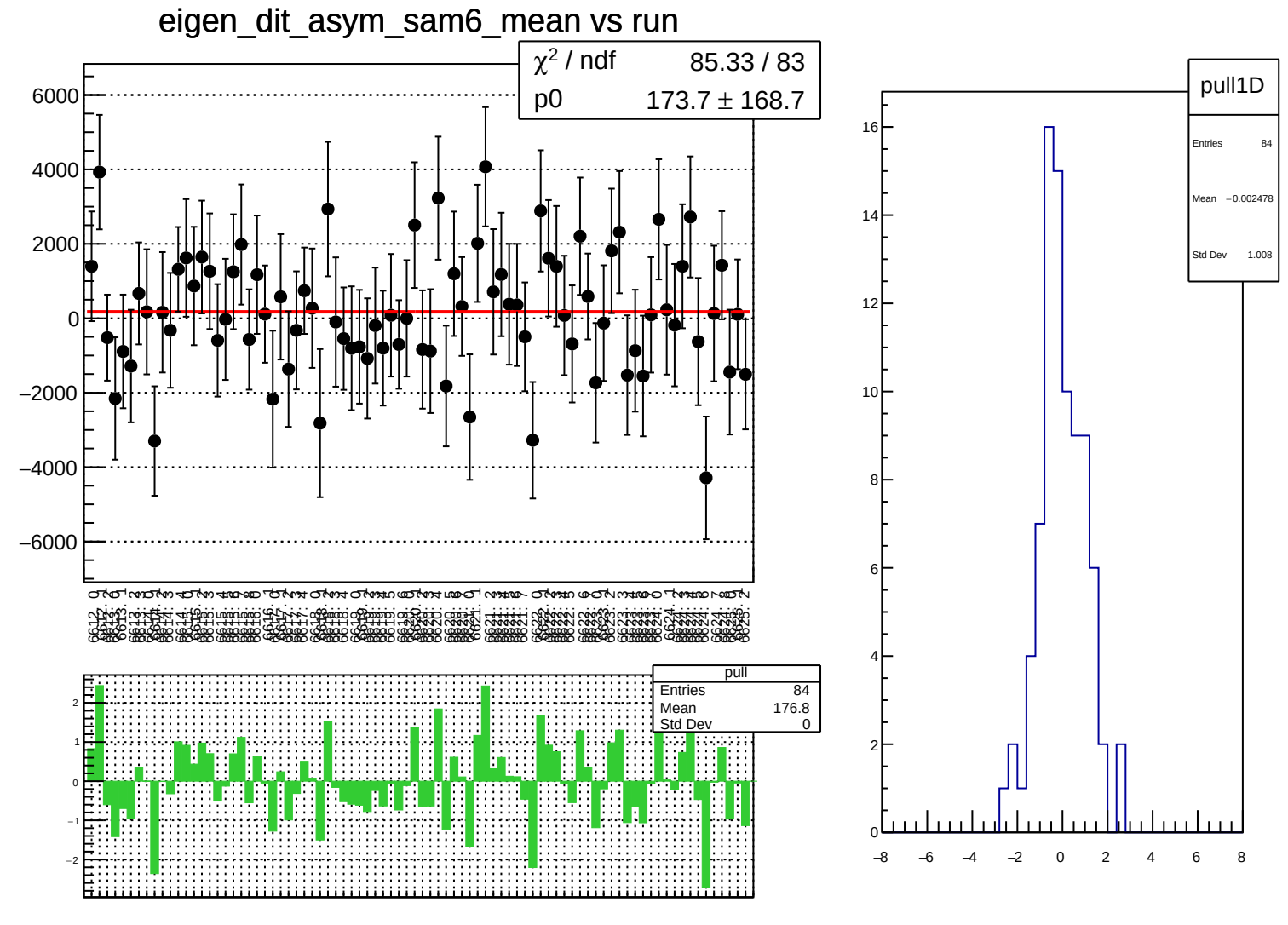

pull1D
Entries 84
Mean −0.002479
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

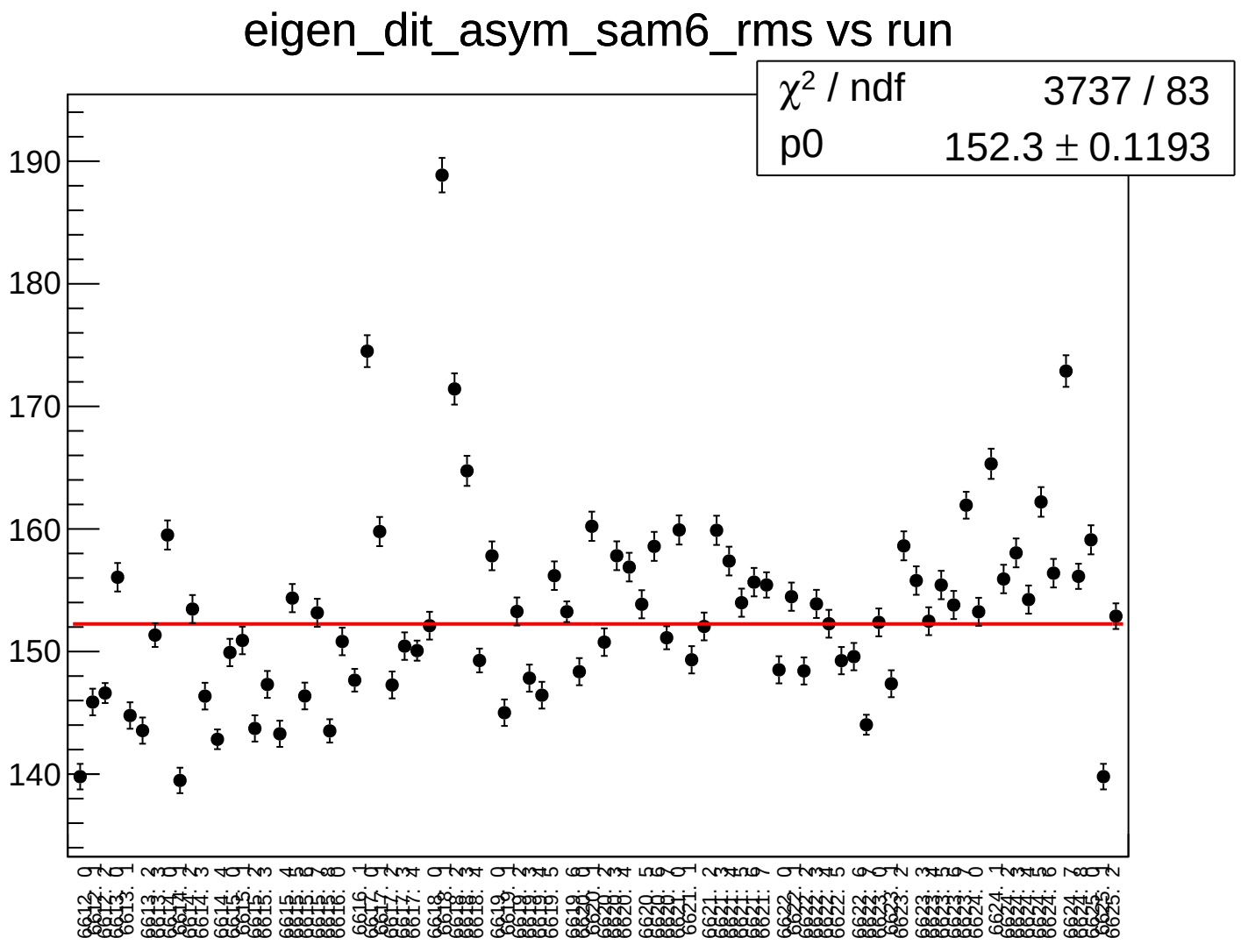

dit_asym_sam6_rms vs run
χ^2 / ndf 3737 / 83
p0 152.3 ± 0.1193
190
180
170
160
150
140

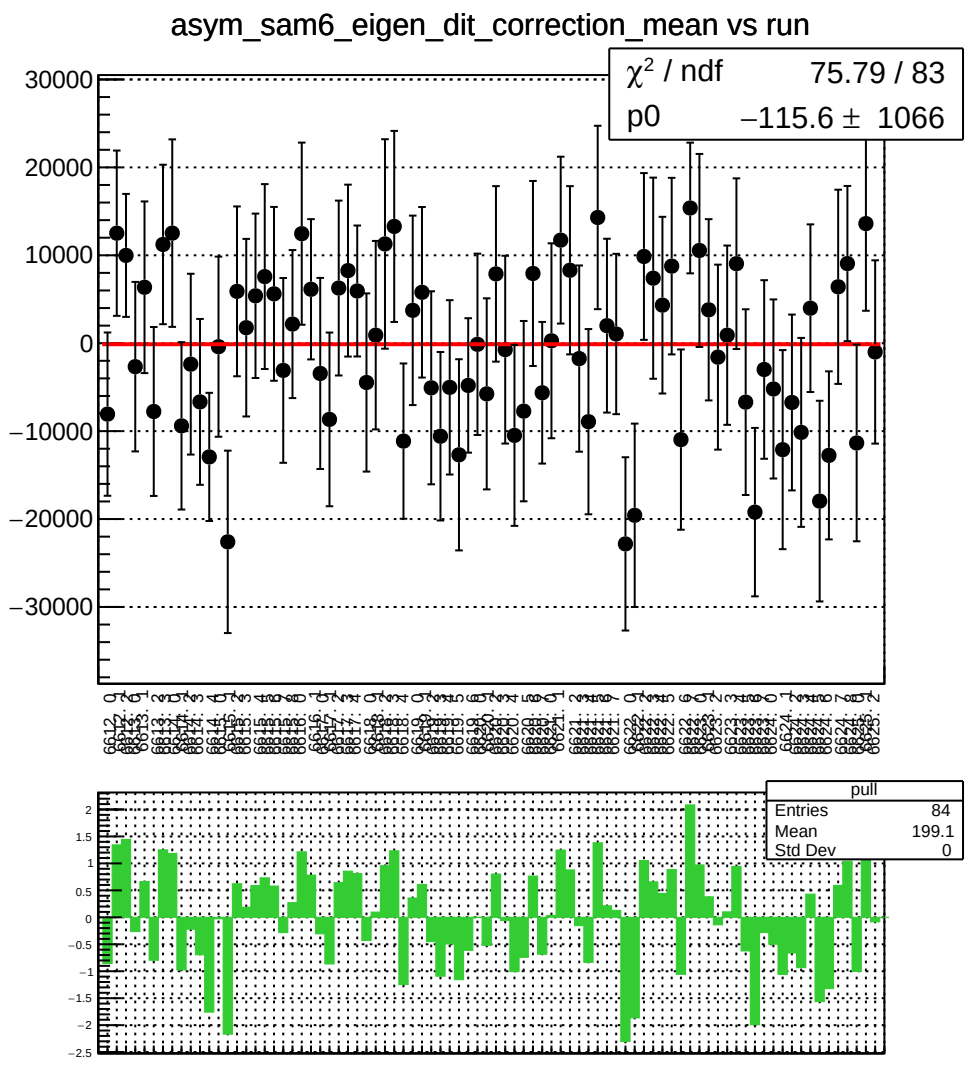

asym_sam6_dit_correction_mean vs run
χ² / ndf 75.79 / 83
p0 −115.6 ± 1066
pull
Entries 84
Mean 199.1
Std Dev 0

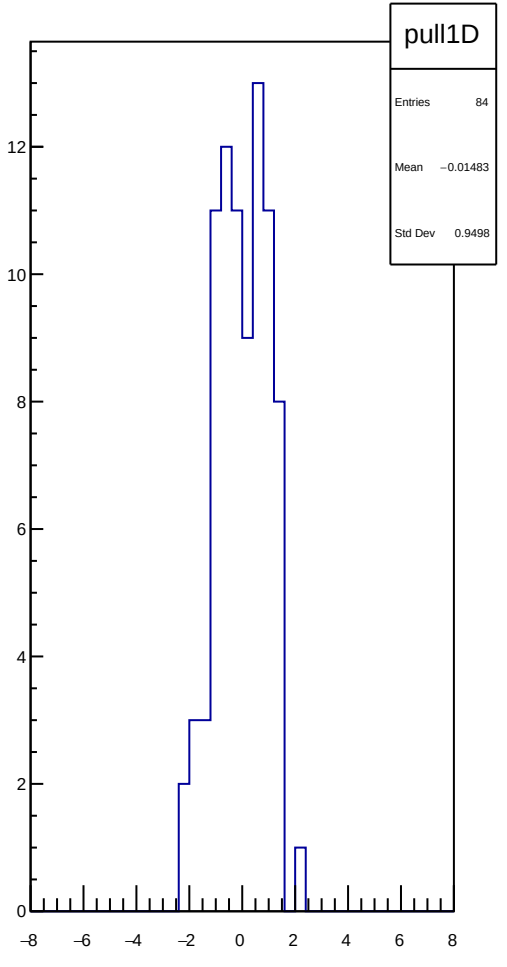

pull1D
Entries 84
Mean −0.01483
Std Dev 0.9498

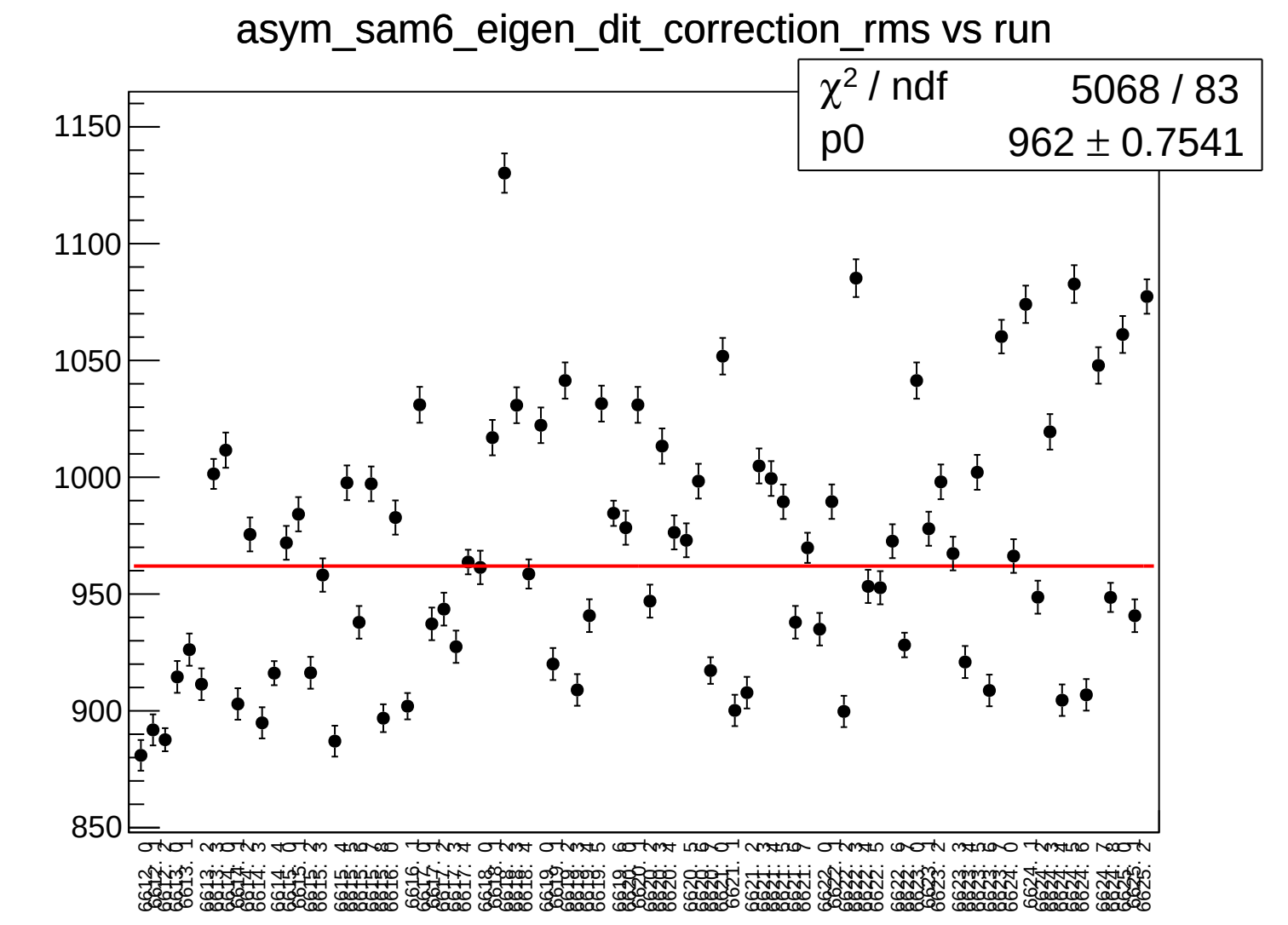

asym_sam6_dit_correction_rms vs run
χ² / ndf 5068 / 83
p0 962 ± 0.7541
1150
1100
1050
1000
950
900
850

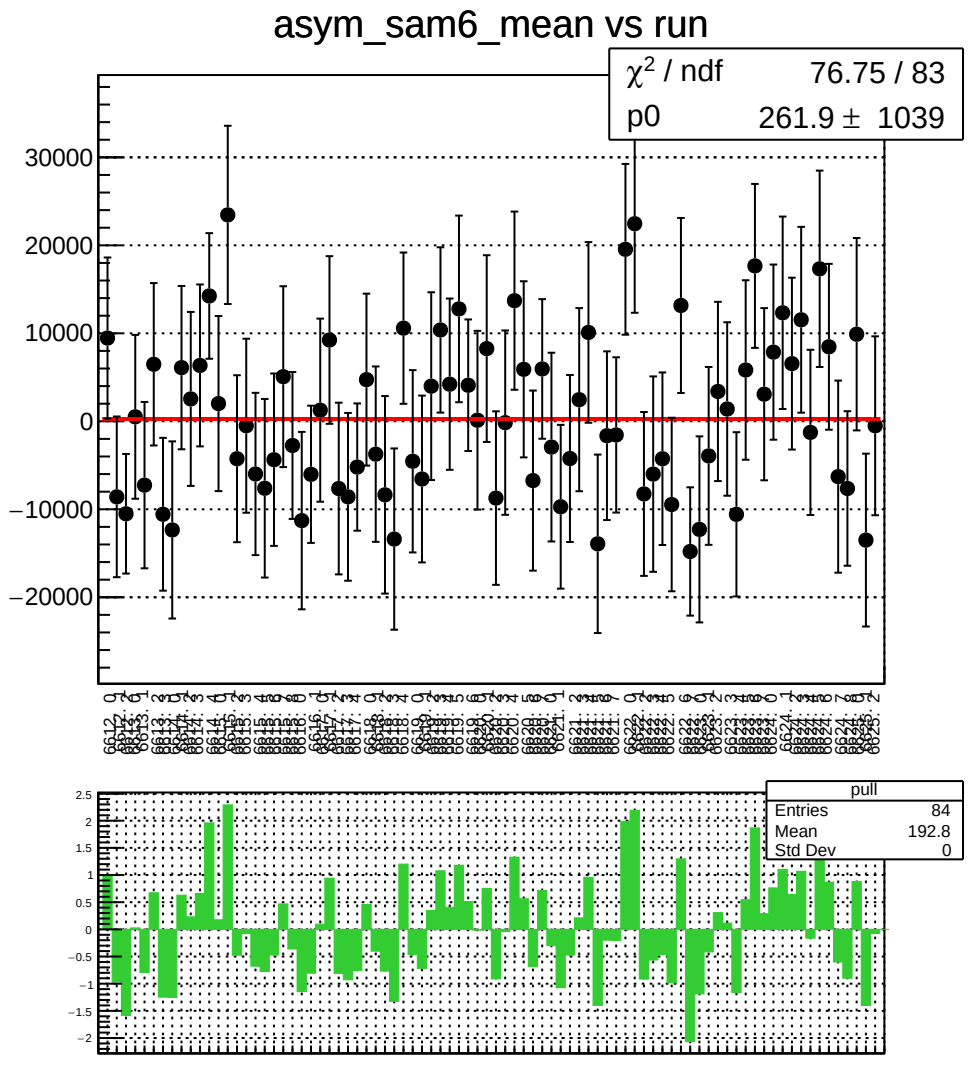

eigen_dit_asym_sam6_mean vs run
χ² / ndf 85.33 / 83
p0 173.7 ± 168.7
pull
Entries 84
Mean 176.8
Std Dev 0
pull1D
Entries 84
Mean −0.002478
Std Dev 1.008

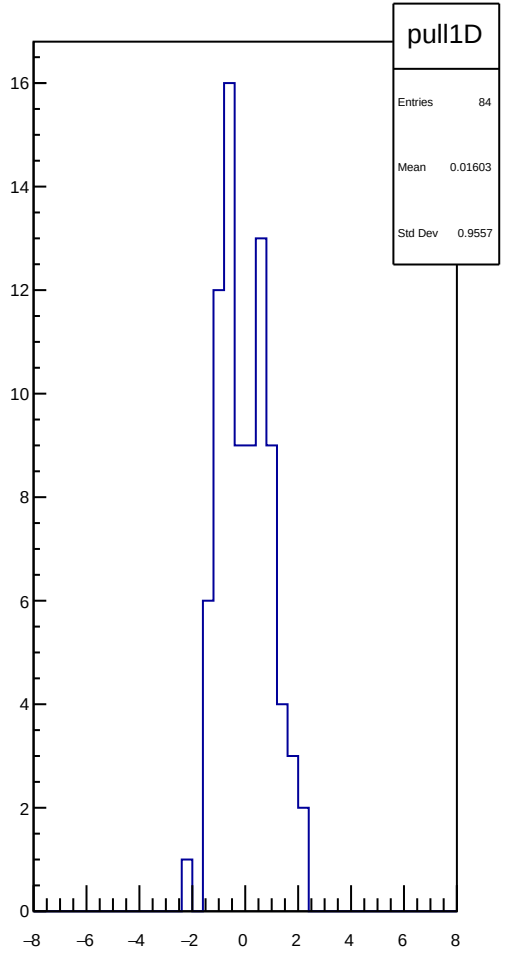

eigen_dit_asym_sam6_rms vs run
χ^2 / ndf 3737 / 83
p0 152.3 ± 0.1193
190
180
170
160
150
140

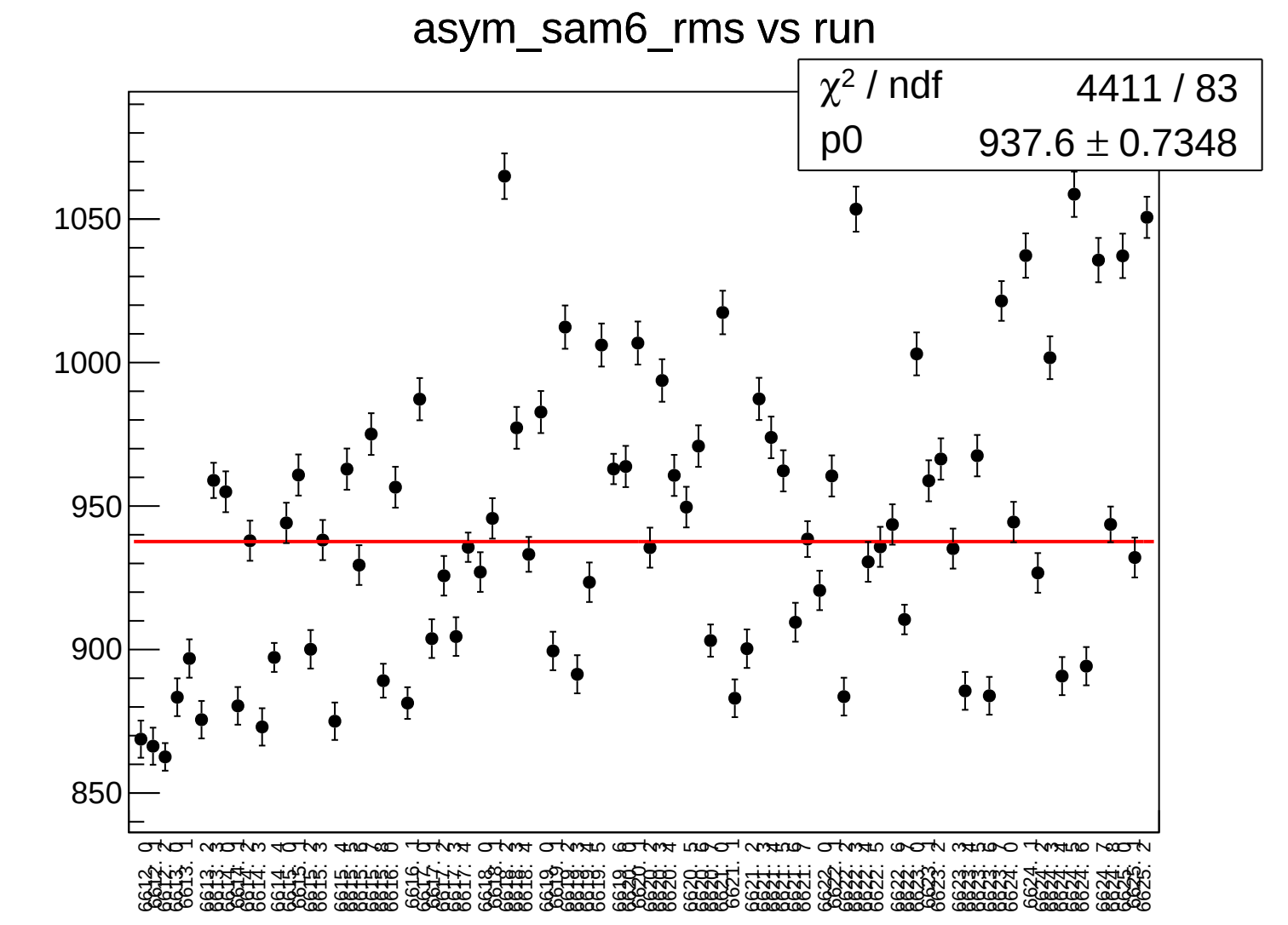

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 75.79 / 83
p0 −115.6 ± 1066
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 199.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

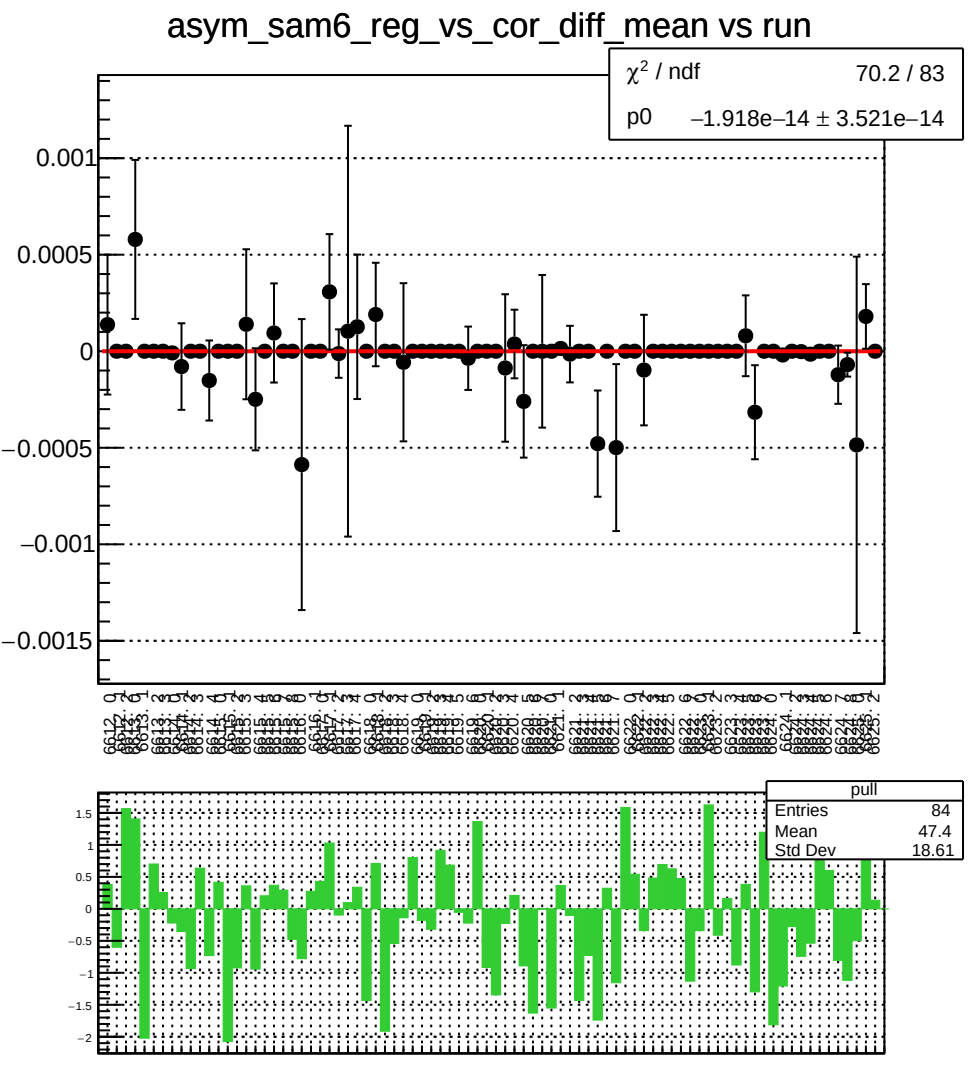

pull1D
Entries 84
Mean −0.01483
Std Dev 0.9498
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

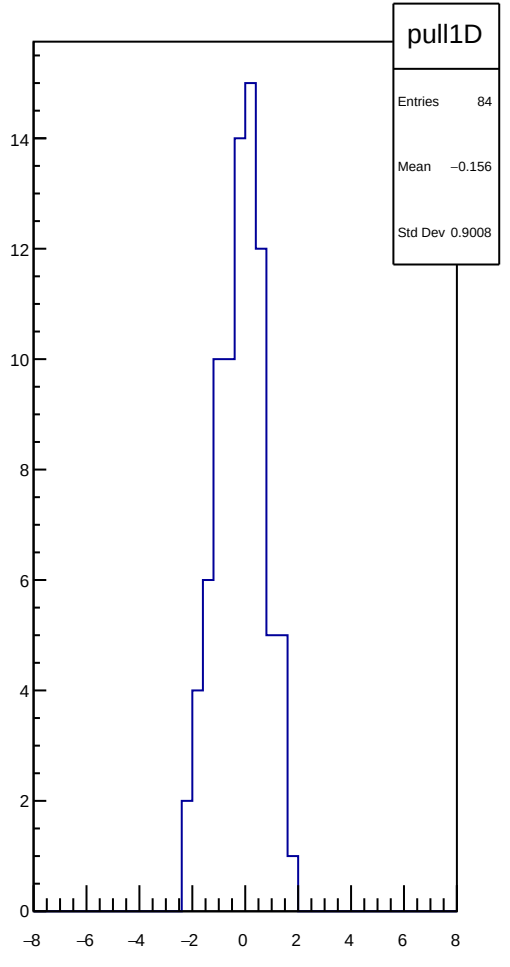

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 5068 / 83
p0 962 ± 0.7541
1150
1100
1050
1000
950
900
850

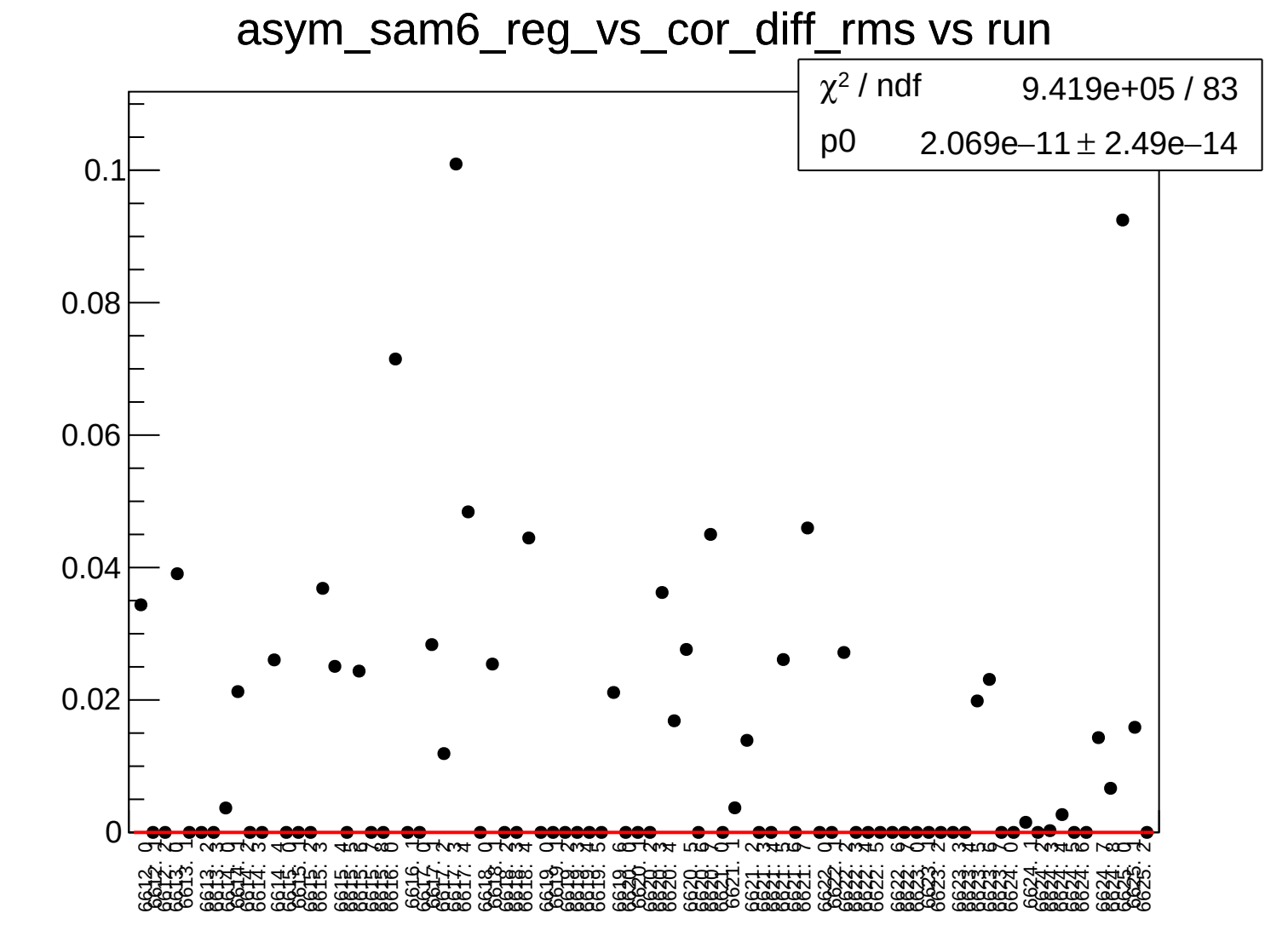

asym_sam6_mean vs run
χ² / ndf 76.75 / 83
p0 261.9 ± 1039
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 192.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

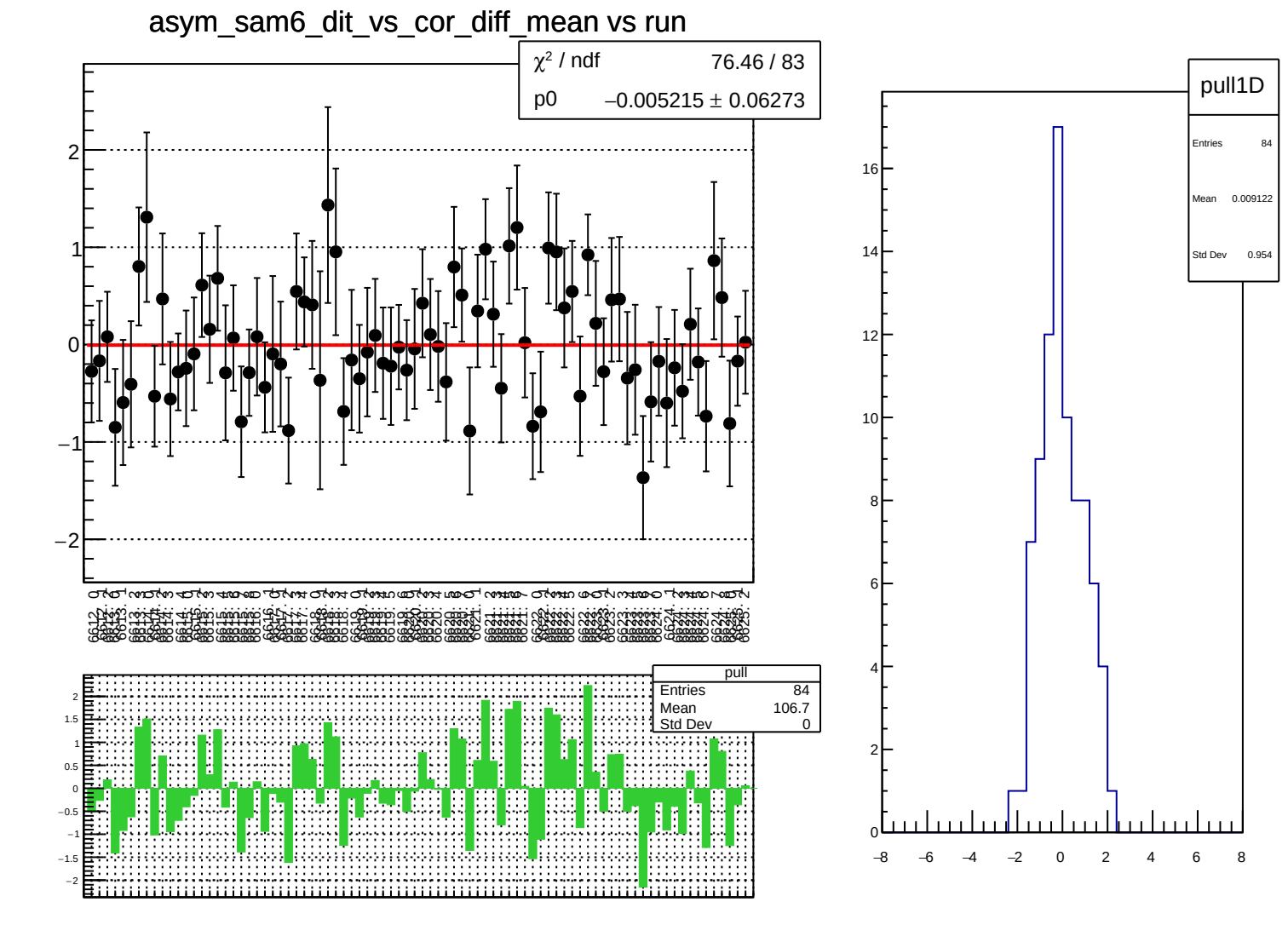

pull1D
Entries 84
Mean 0.01603
Std Dev 0.9557
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

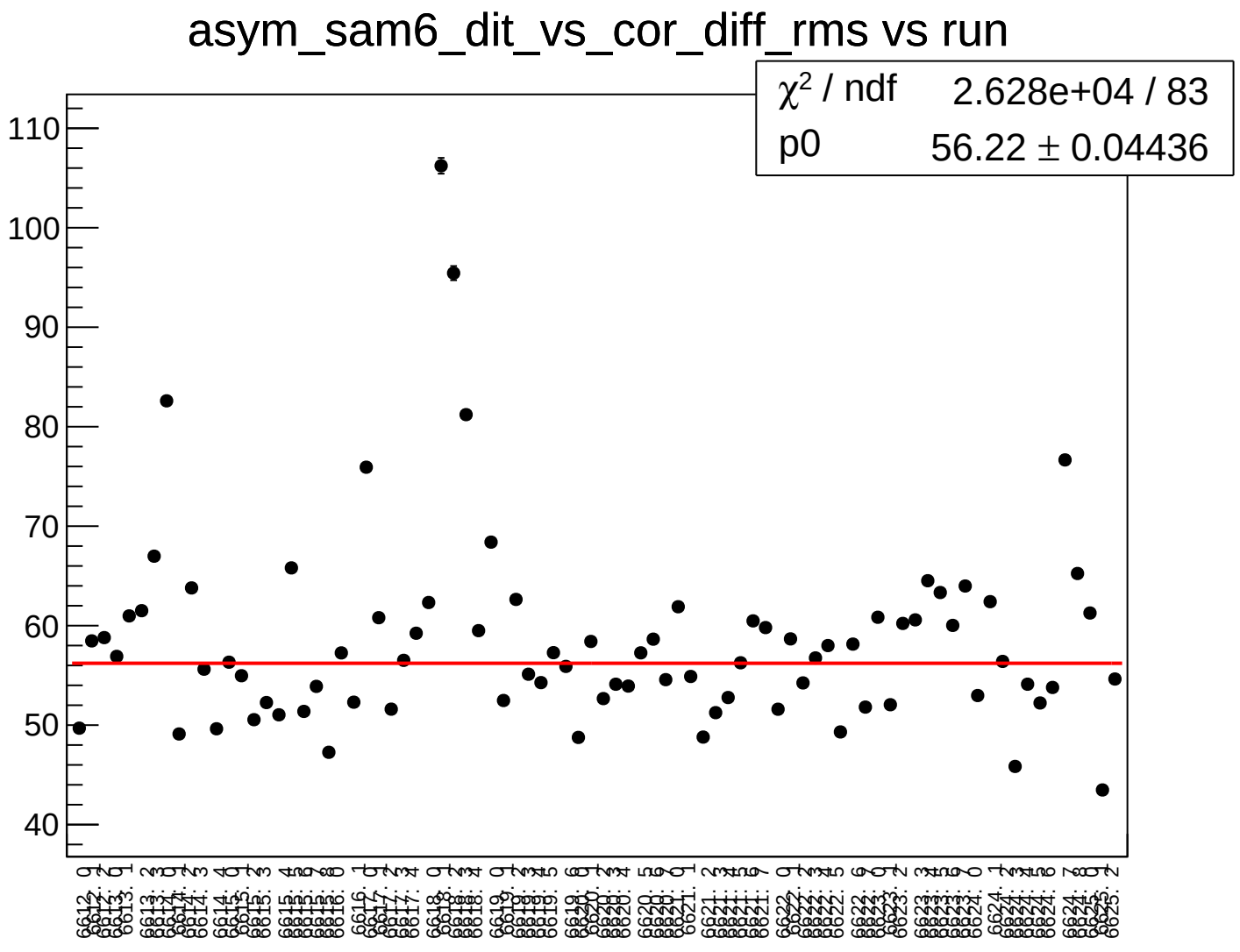

asym_sam6_rms vs run
χ² / ndf 4411 / 83
p0 937.6 ± 0.7348
1050
1000
950
900
850

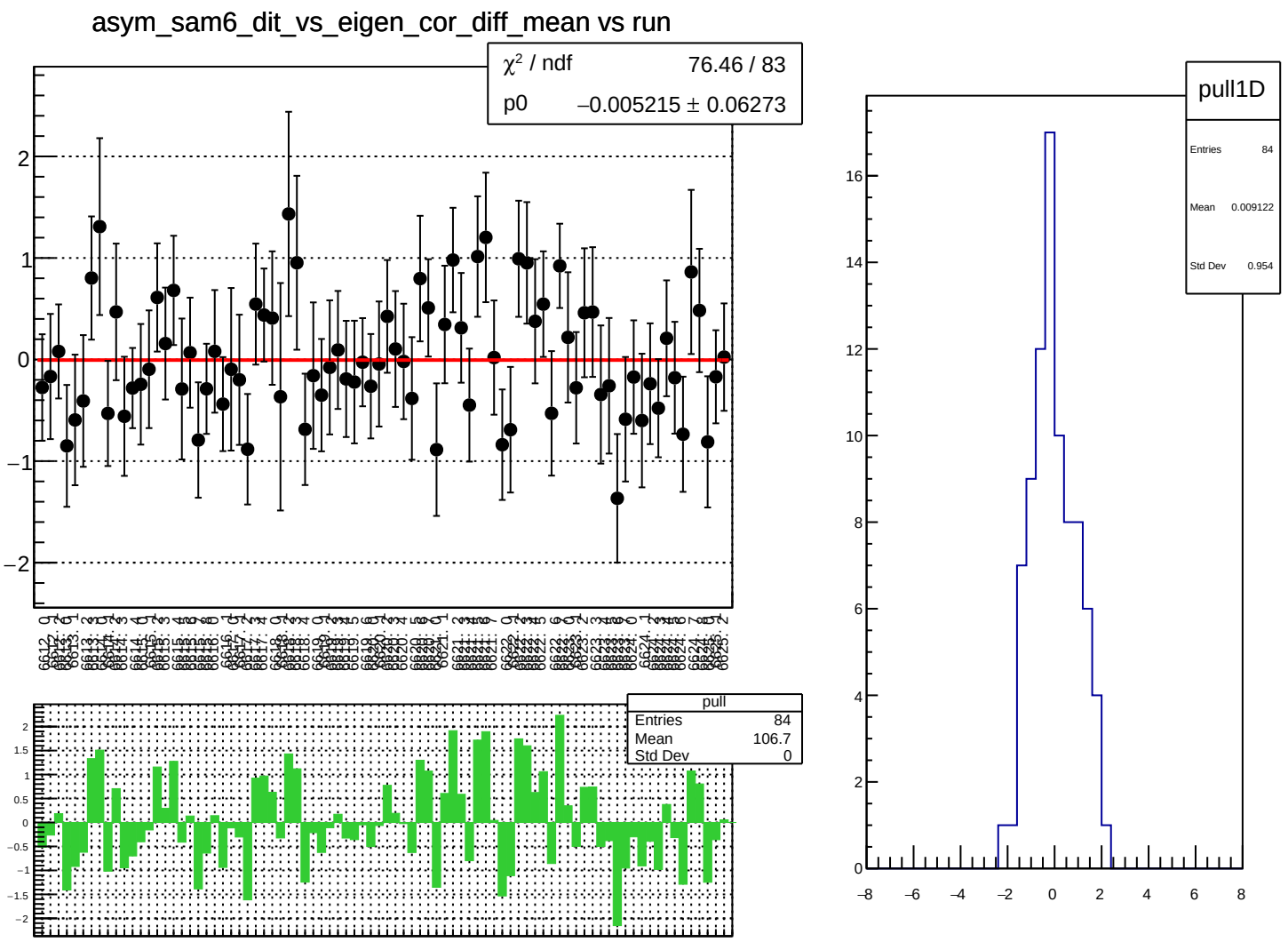

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 70.2 / 83
p0 −1.918e−14 ± 3.521e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 84
Mean 47.4
Std Dev 18.61
1.5
1
0.5
0
−0.5
−1
−1.5
−2

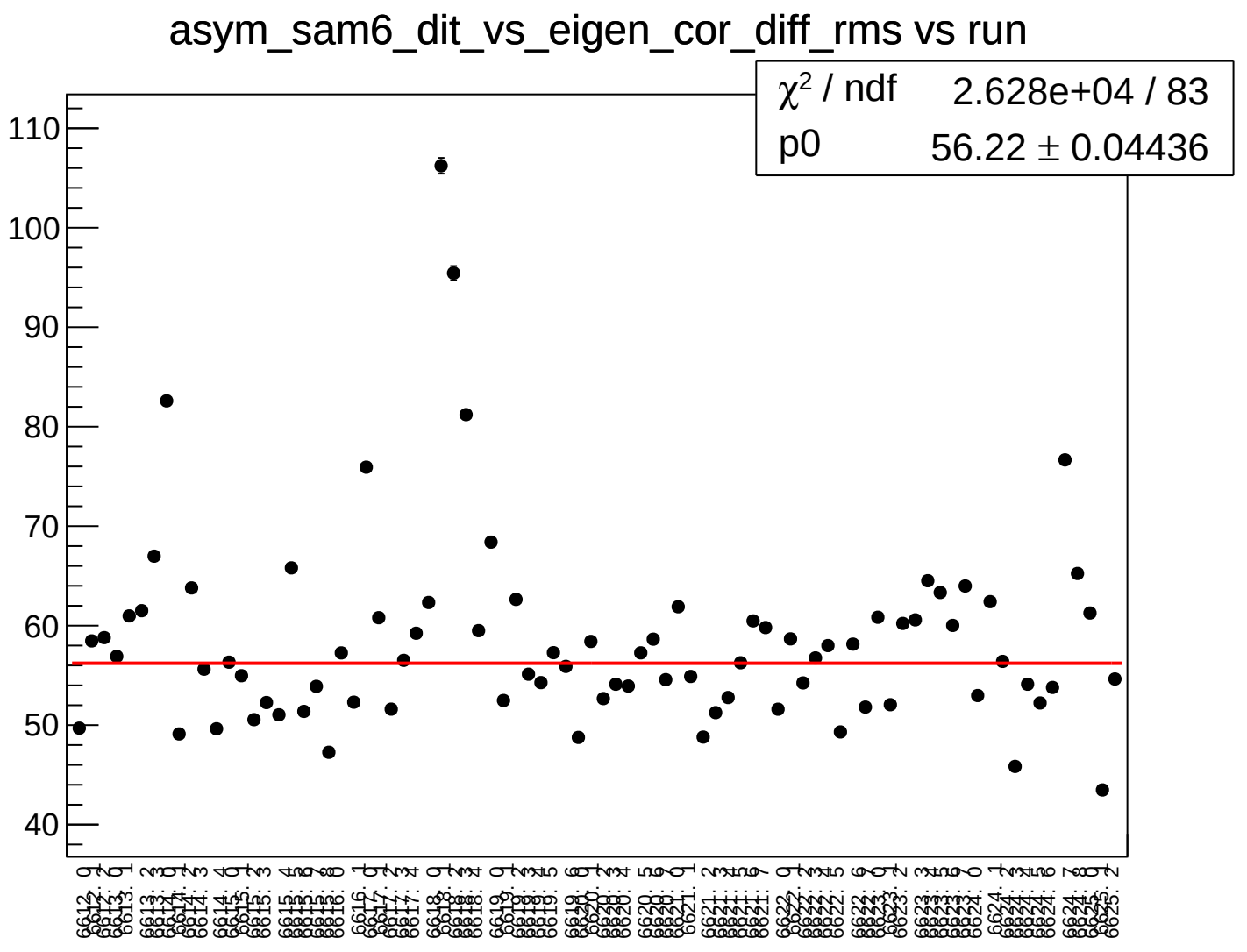

pull1D
Entries 84
Mean −0.156
Std Dev 0.9008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

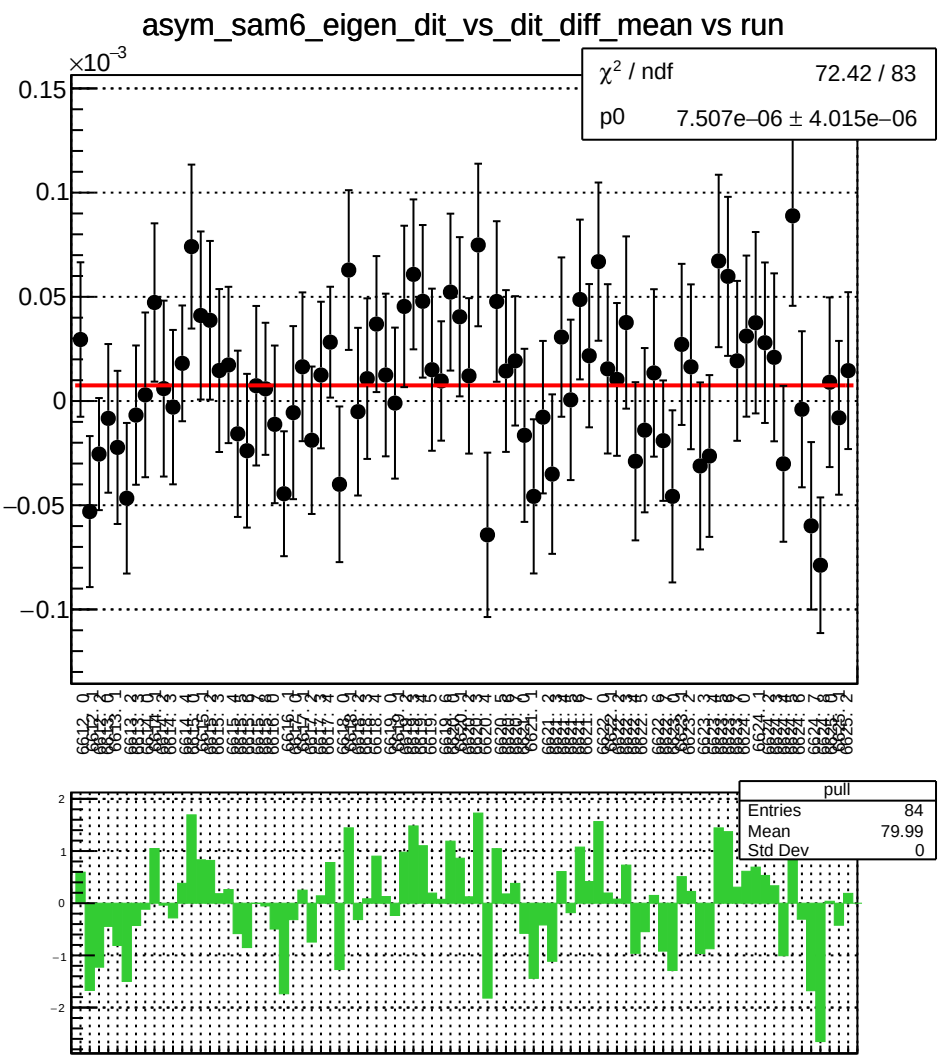

asym_sam6_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.419e+05 / 83
p0 2.069e−11 ± 2.49e−14
0.1
0.08
0.06
0.04
0.02
0

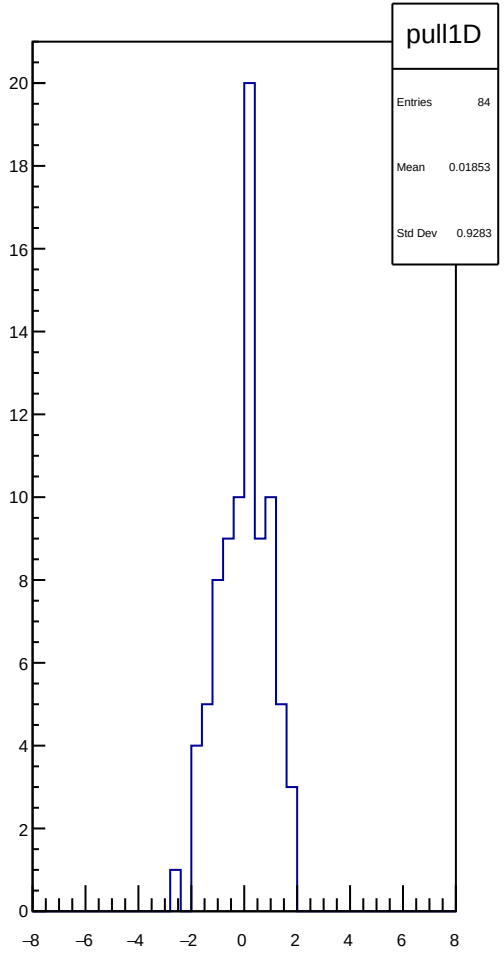

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 76.46 / 83
p0 −0.005215 ± 0.06273
pull
Entries 84
Mean 106.7
Std Dev 0
pull1D
Entries 84
Mean 0.009122
Std Dev 0.954

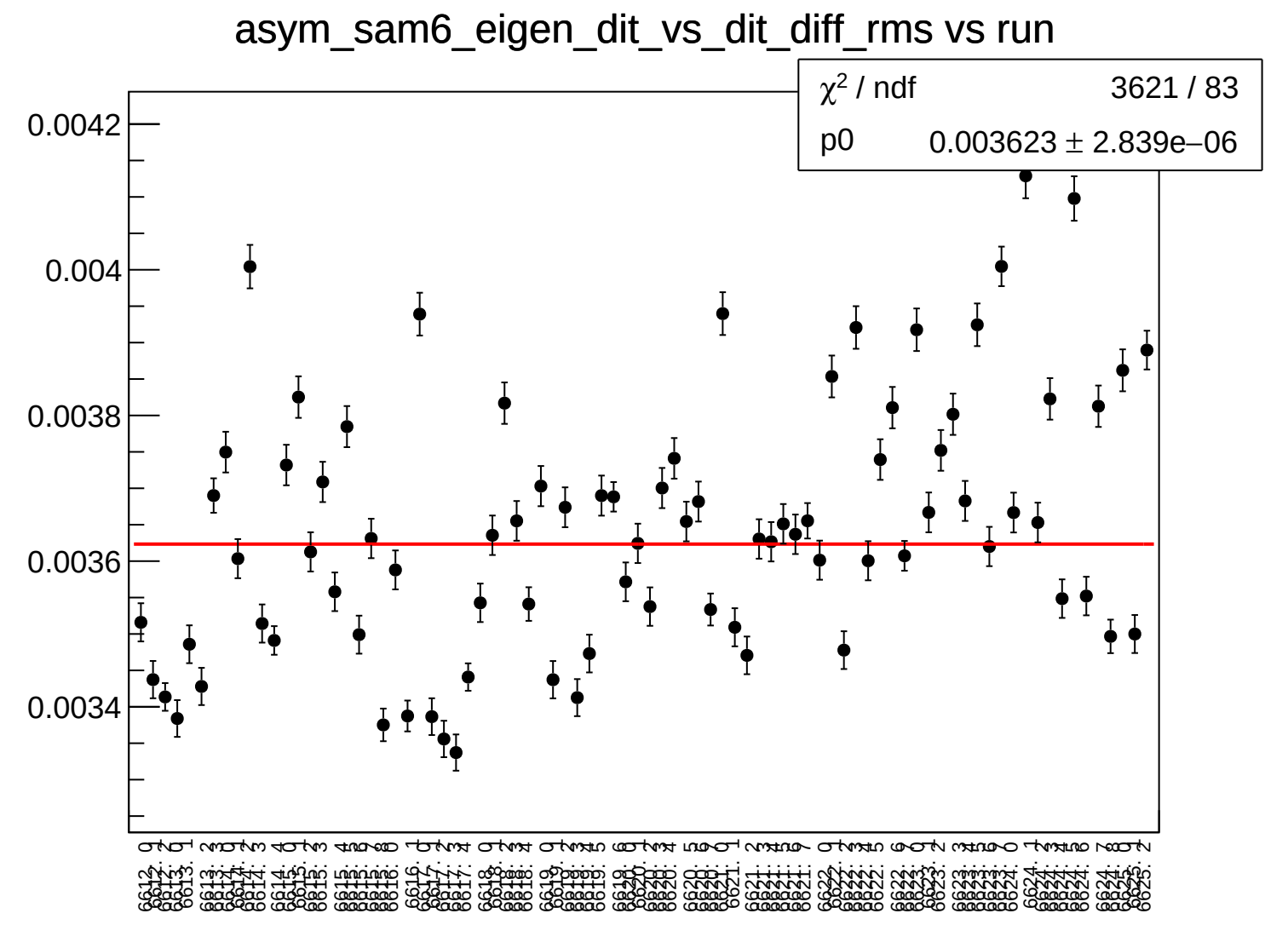

asym_sam6_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.628e+04 / 83
p0 56.22 ± 0.04436
110
100
90
80
70
60
50
40

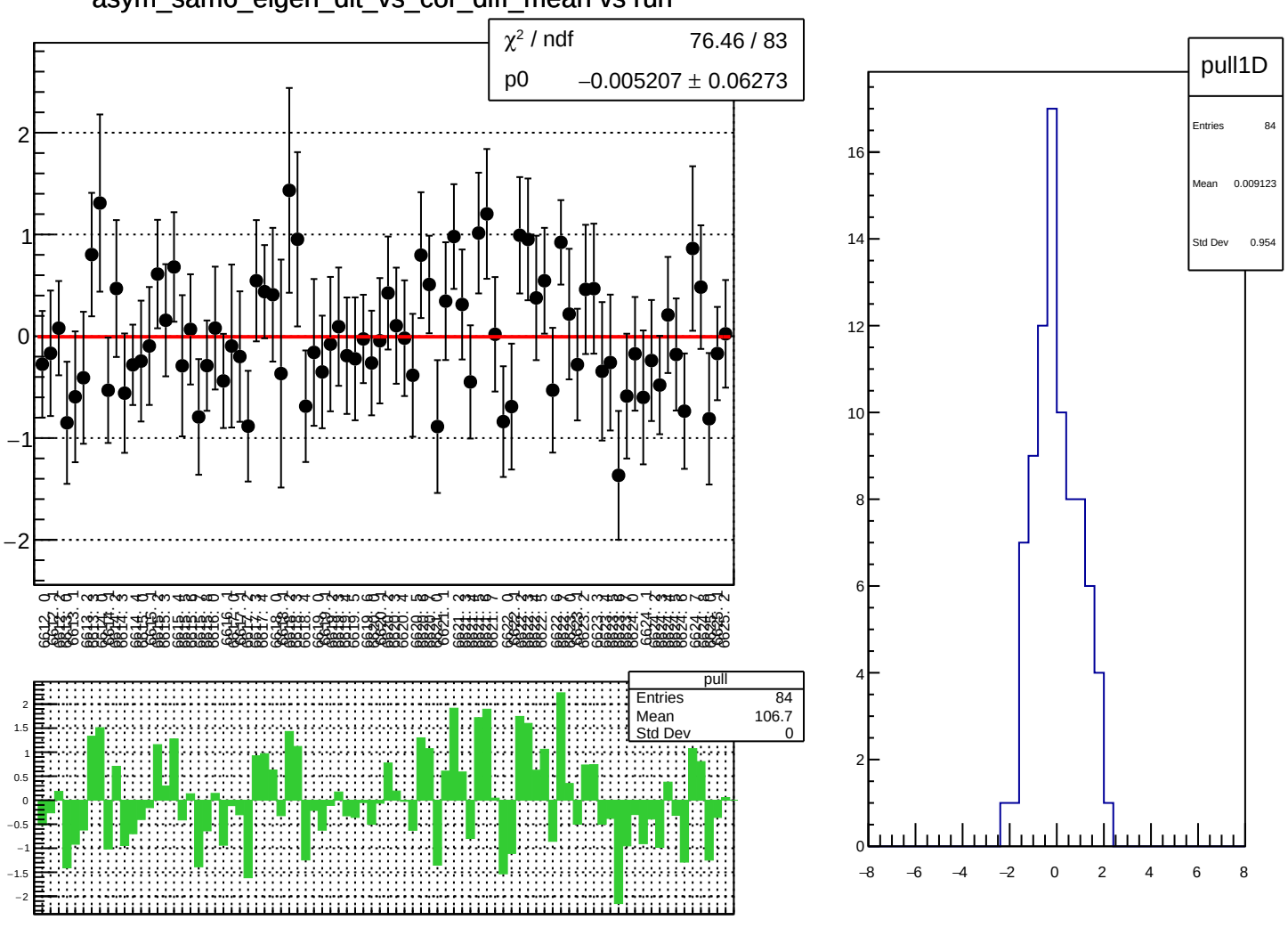

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.46 / 83
p0 −0.005215 ± 0.06273
pull
Entries 84
Mean 106.7
Std Dev 0
pull1D
Entries 84
Mean 0.009122
Std Dev 0.954

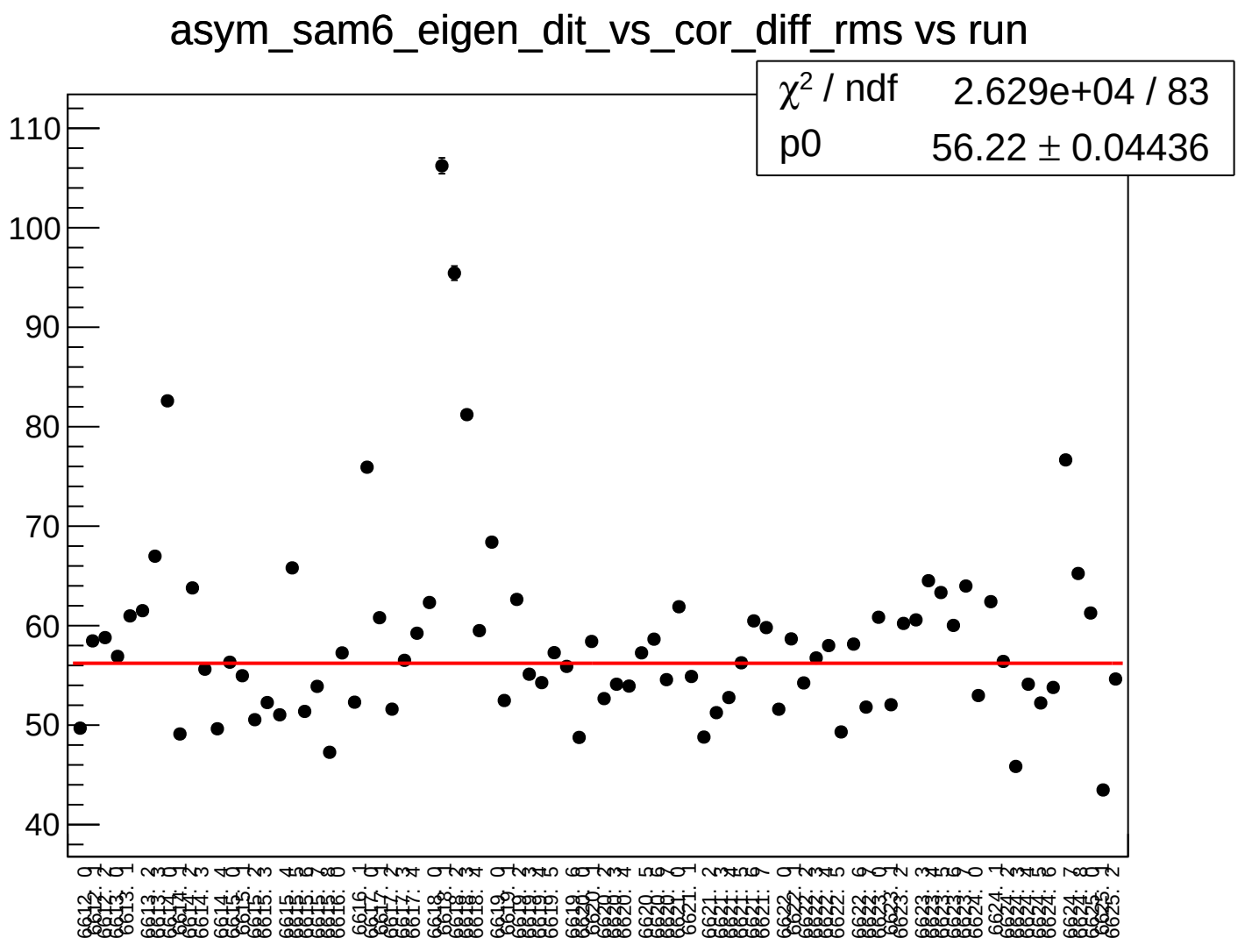

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.628e+04 / 83
p0 56.22 ± 0.04436
110
100
90
80
70
60
50
40

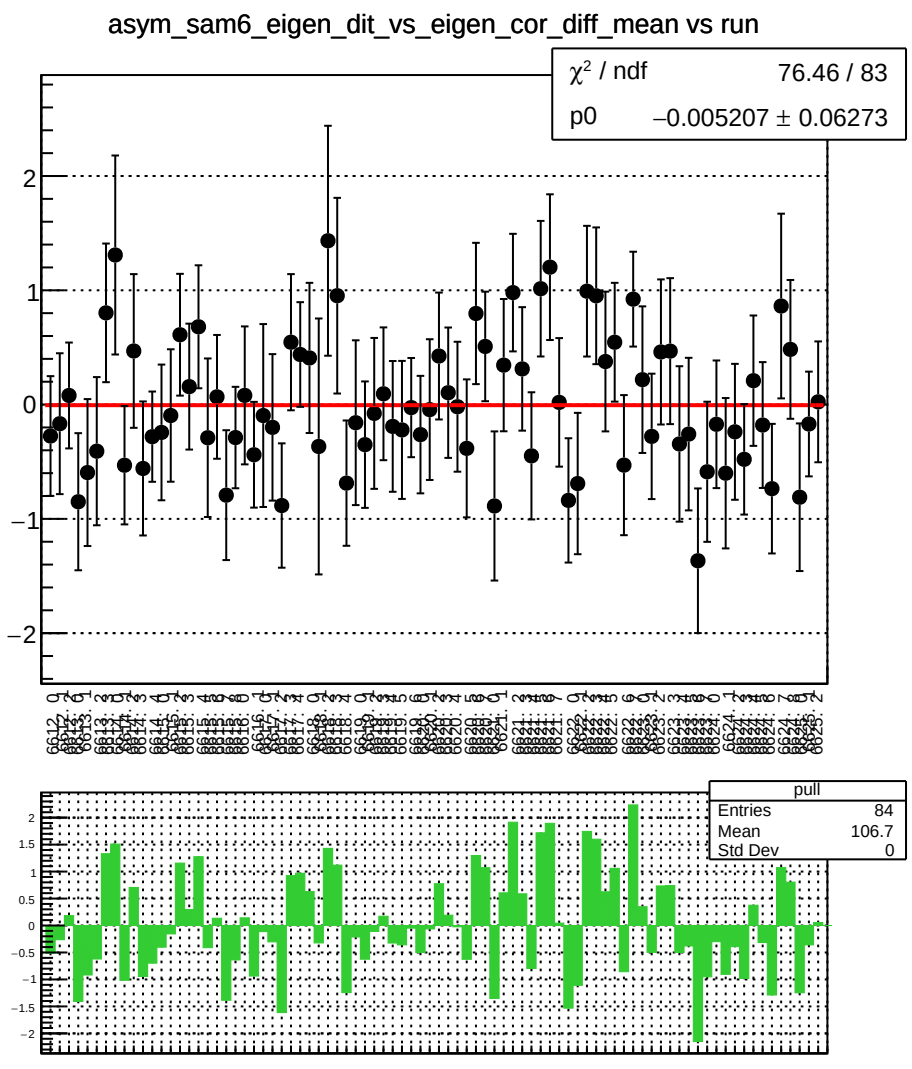

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.42 / 83
p0 7.507e−06 ± 4.015e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean 79.99
Std Dev 0
2
1
0
−1
−2

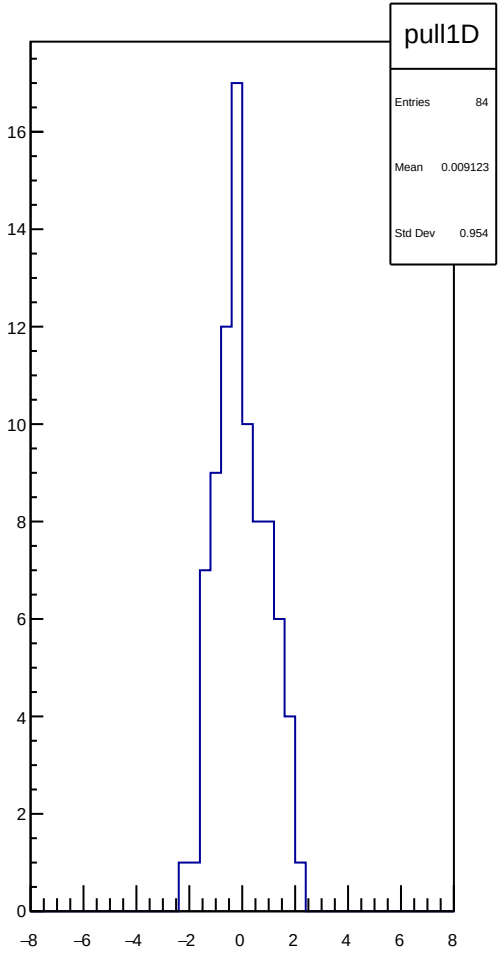

pull1D
Entries 84
Mean 0.01853
Std Dev 0.9283
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

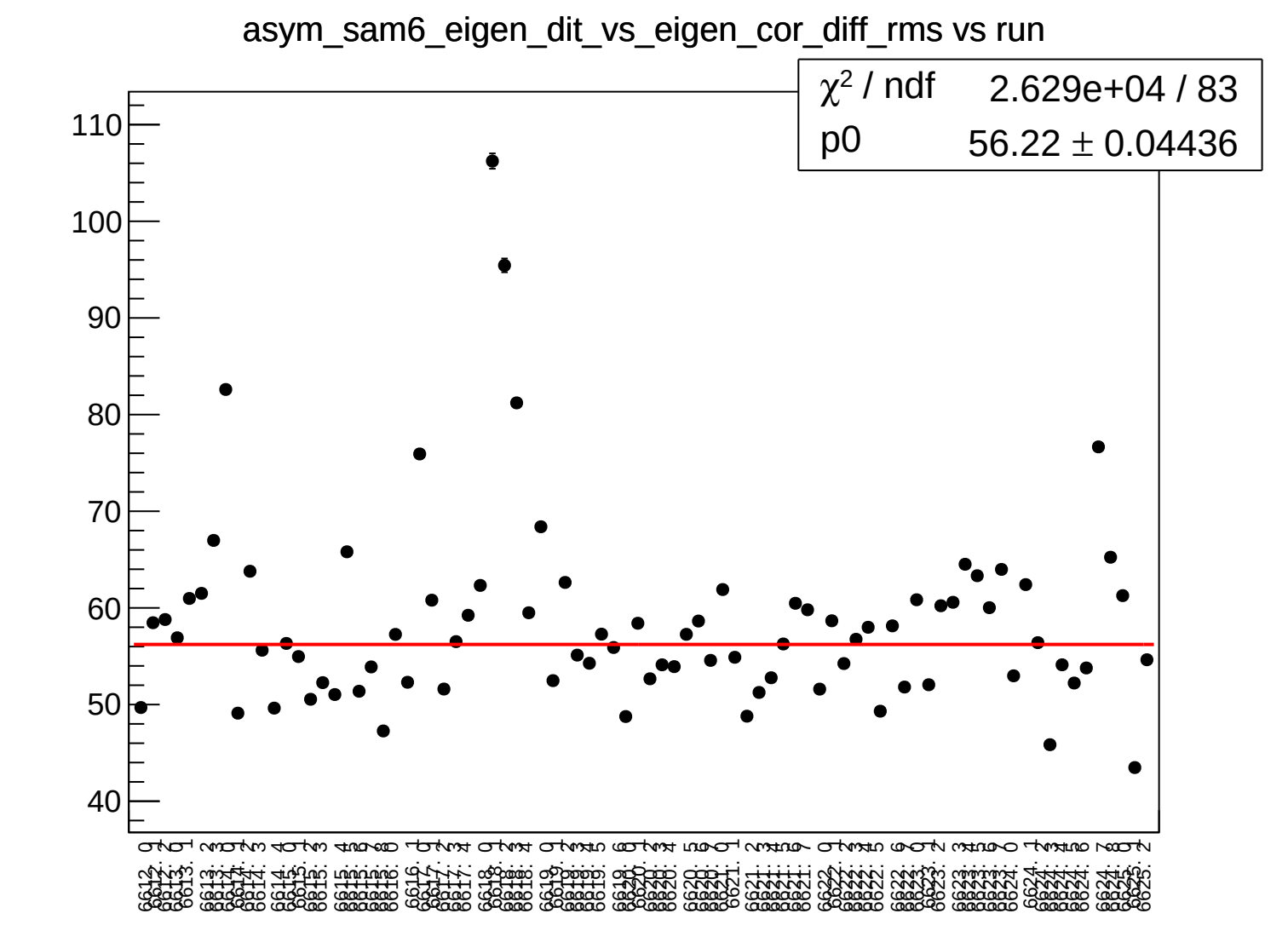

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3621 / 83
p0 0.003623 ± 2.839e−06
0.0042
0.004
0.0038
0.0036
0.0034

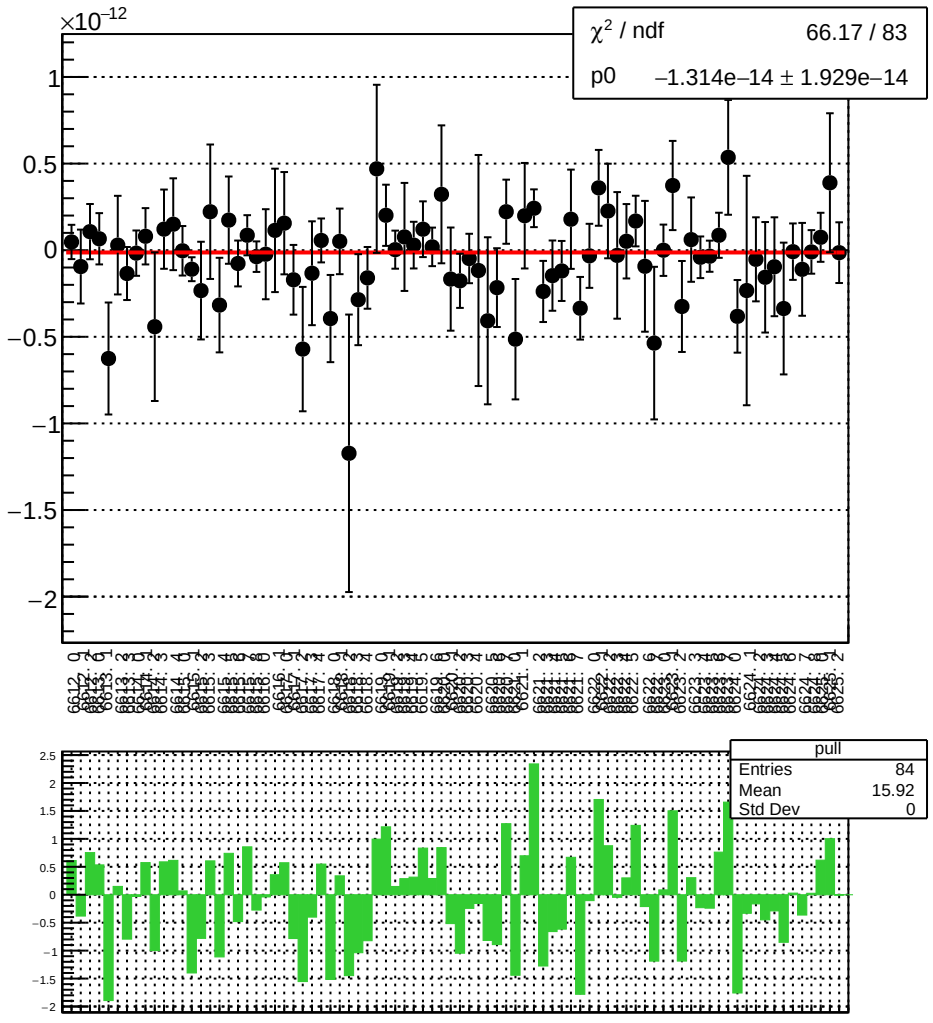

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.46 / 83
p0 −0.005207 ± 0.06273
pull
Entries 84
Mean 106.7
Std Dev 0
pull1D
Entries 84
Mean 0.009123
Std Dev 0.954

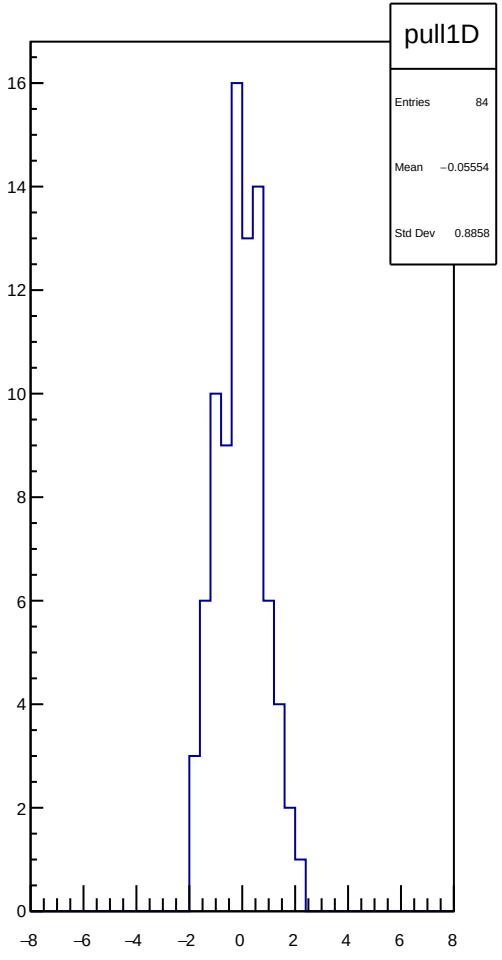

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.629e+04 / 83
p0 56.22 ± 0.04436
110
100
90
80
70
60
50
40

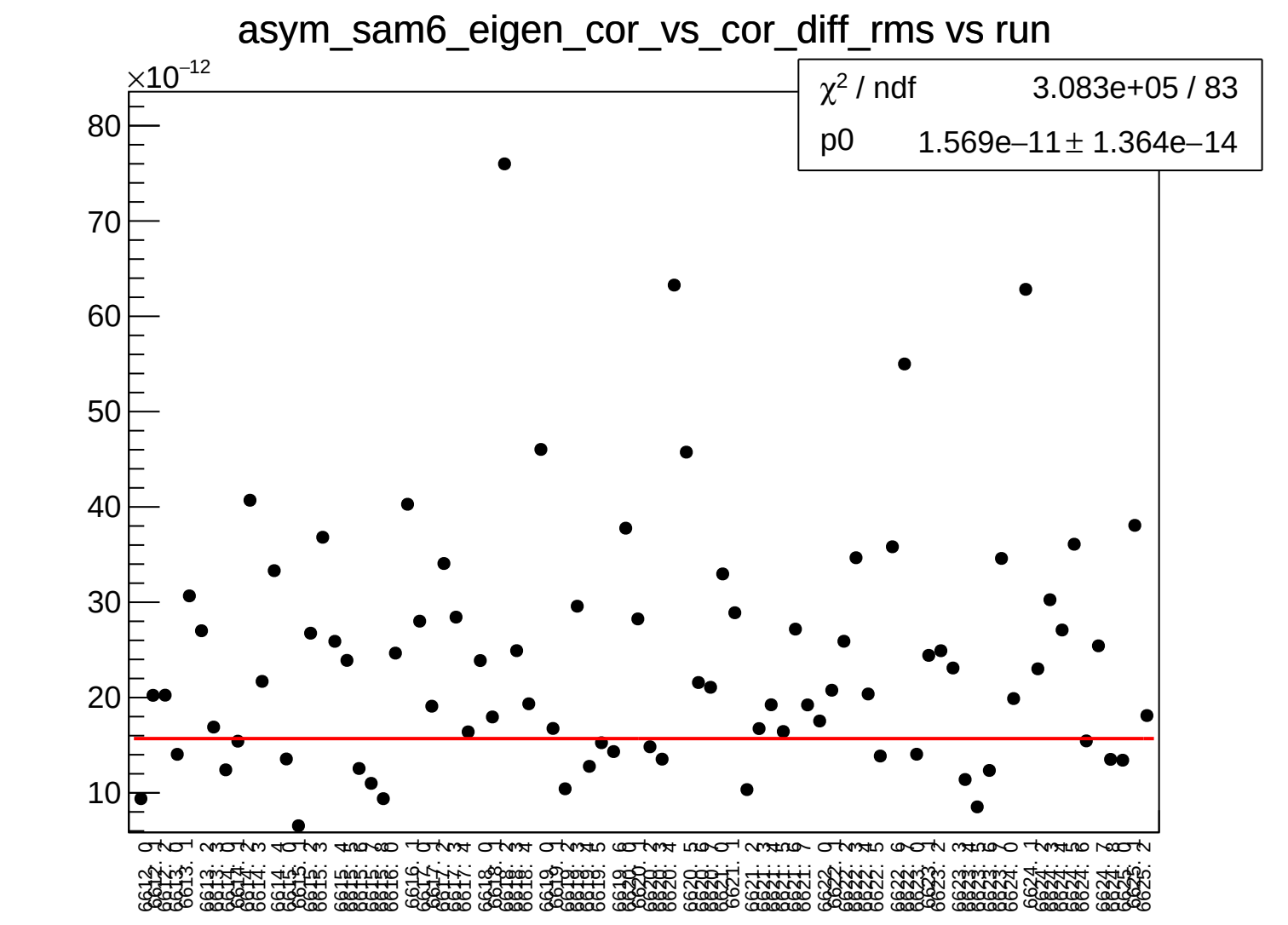

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.46 / 83
p0 −0.005207 ± 0.06273
pull
Entries 84
Mean 106.7
Std Dev 0

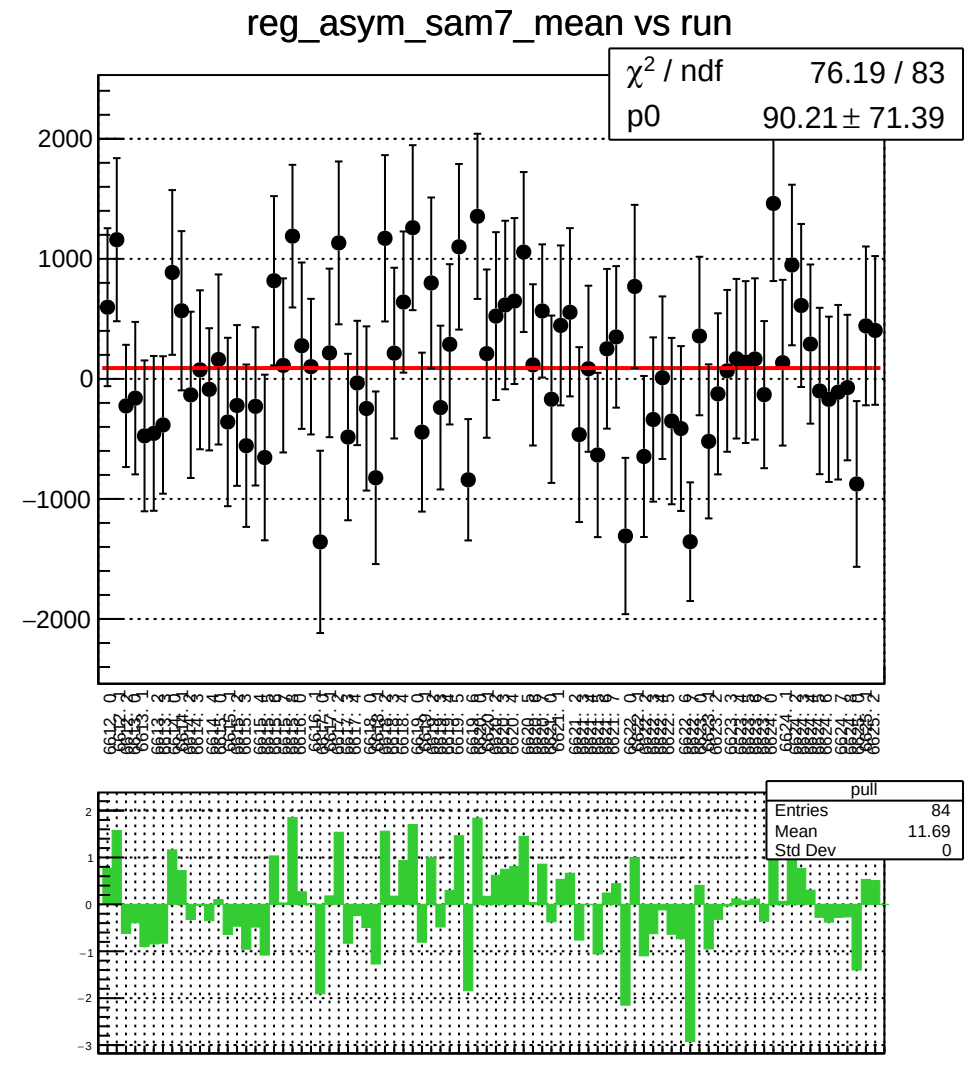

pull1D
Entries 84
Mean 0.009123
Std Dev 0.954

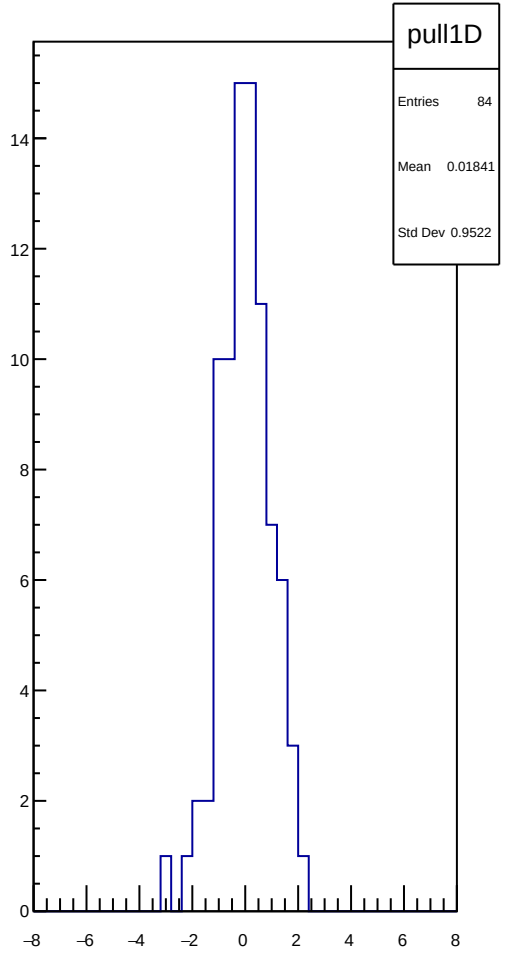

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.629e+04 / 83
p0 56.22 ± 0.04436
110
100
90
80
70
60
50
40

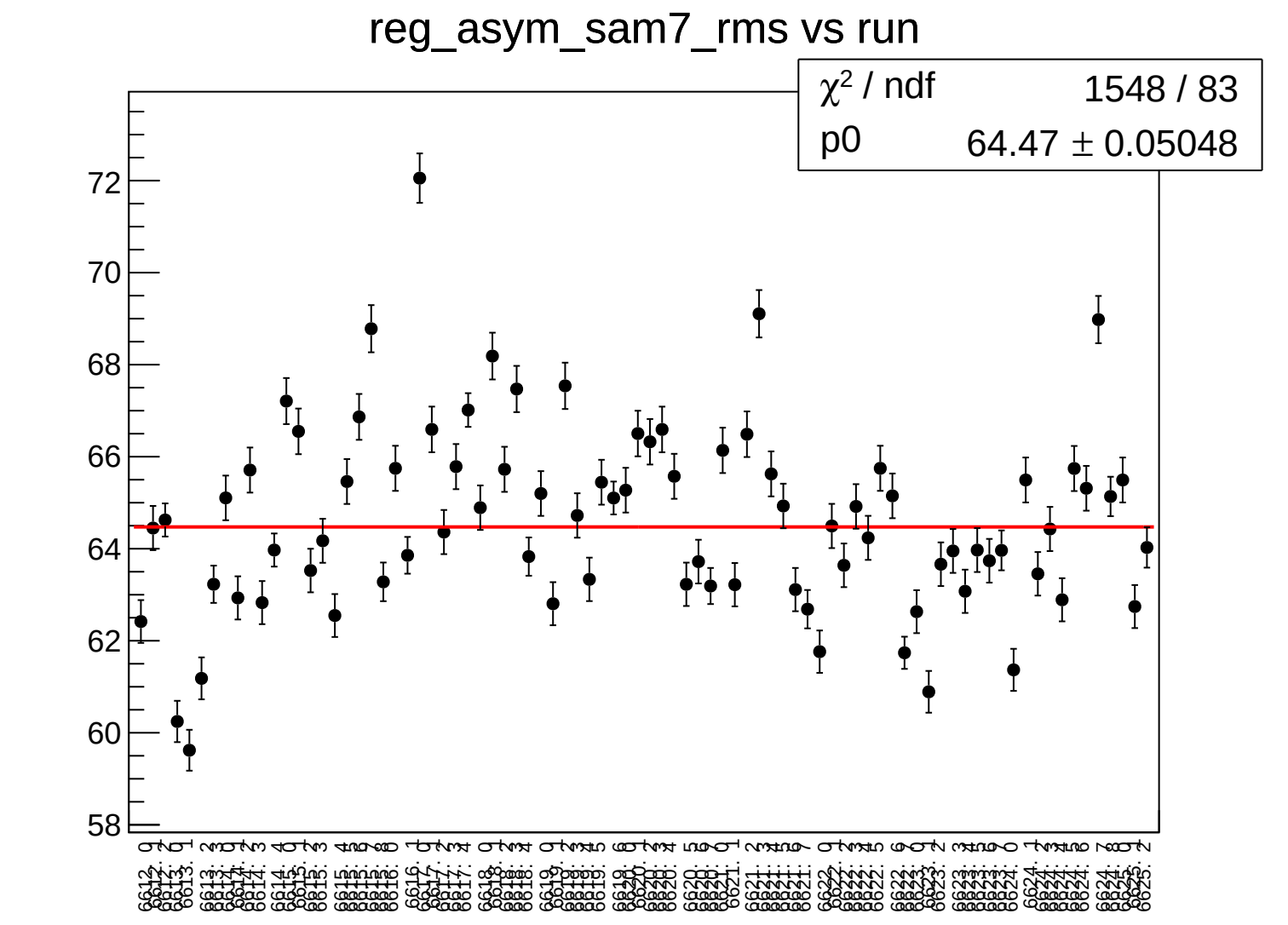

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.17 / 83
p0 −1.314e−14 ± 1.929e−14
pull
Entries 84
Mean 15.92
Std Dev 0

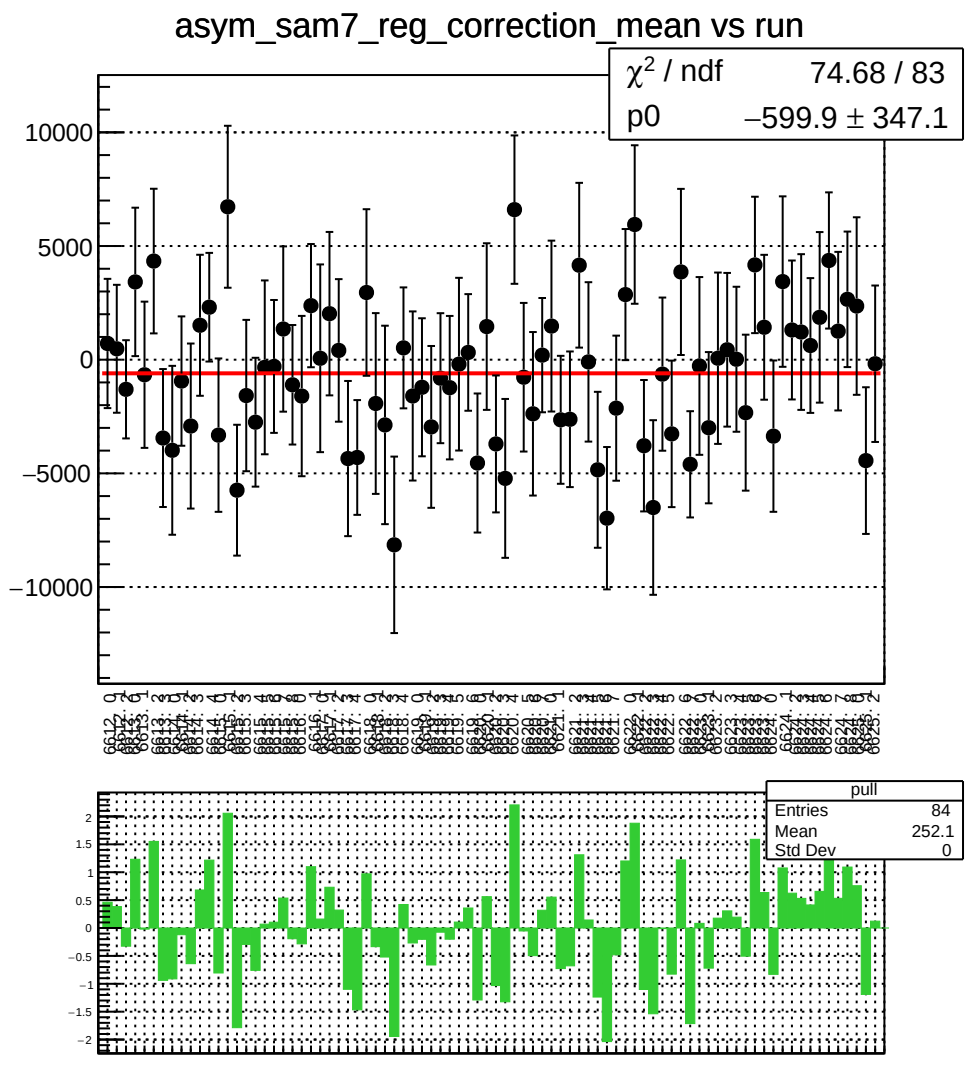

pull1D
Entries 84
Mean −0.05554
Std Dev 0.8858

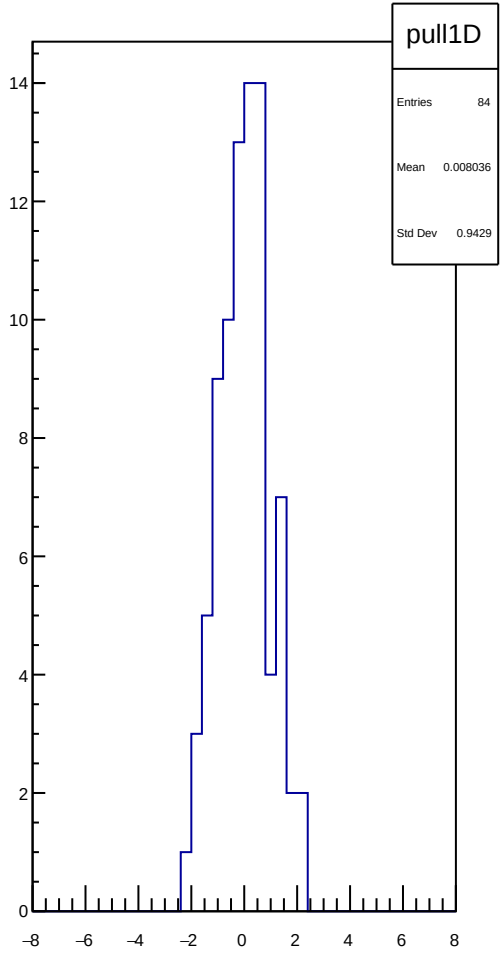

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.083e+05 / 83
p0 1.569e−11 ± 1.364e−14
80
70
60
50
40
30
20
10

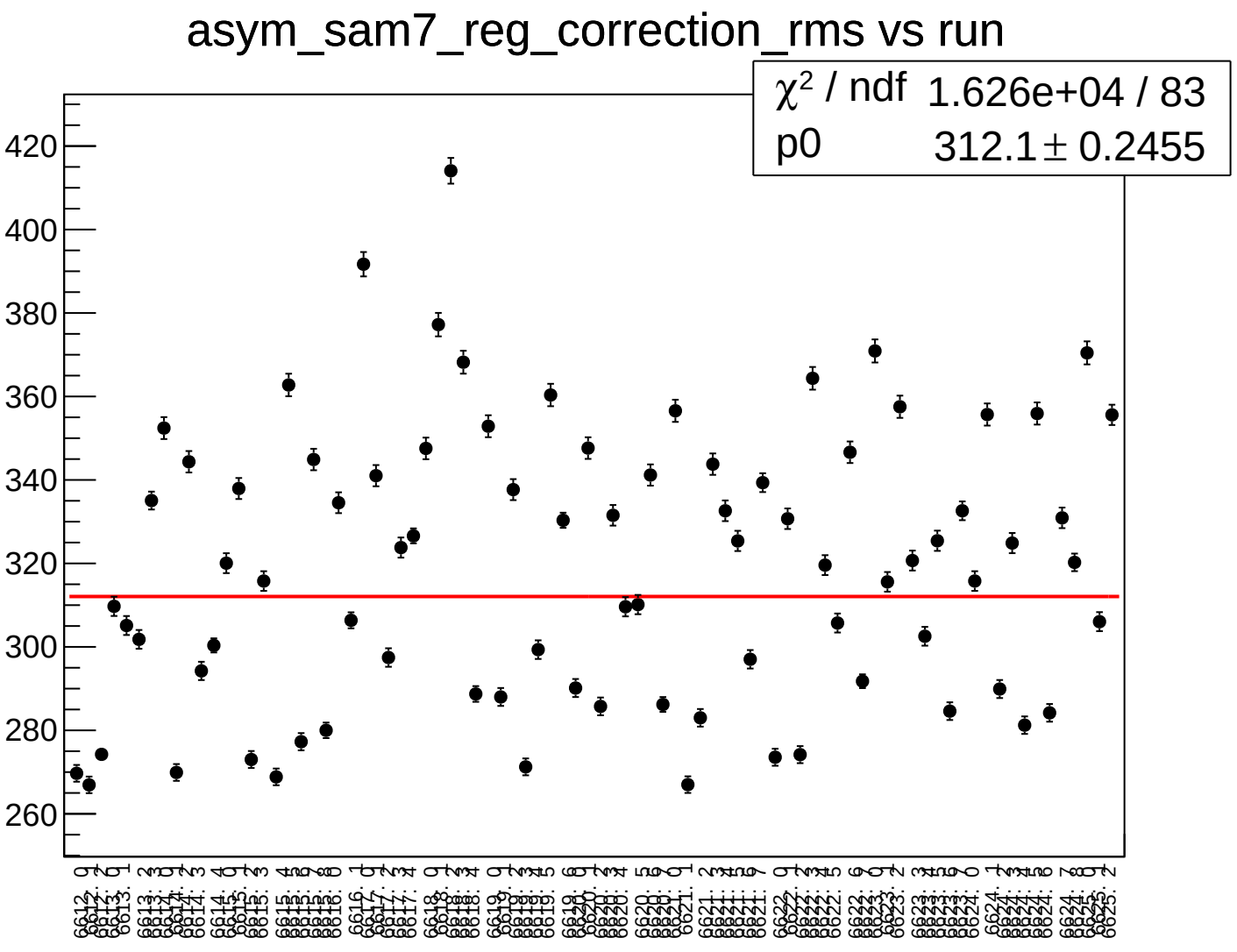

reg_asym_sam7_mean vs run
χ² / ndf 76.19 / 83
p0 90.21 ± 71.39
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 11.69
Std Dev 0
2
1
0
−1
−2
−3

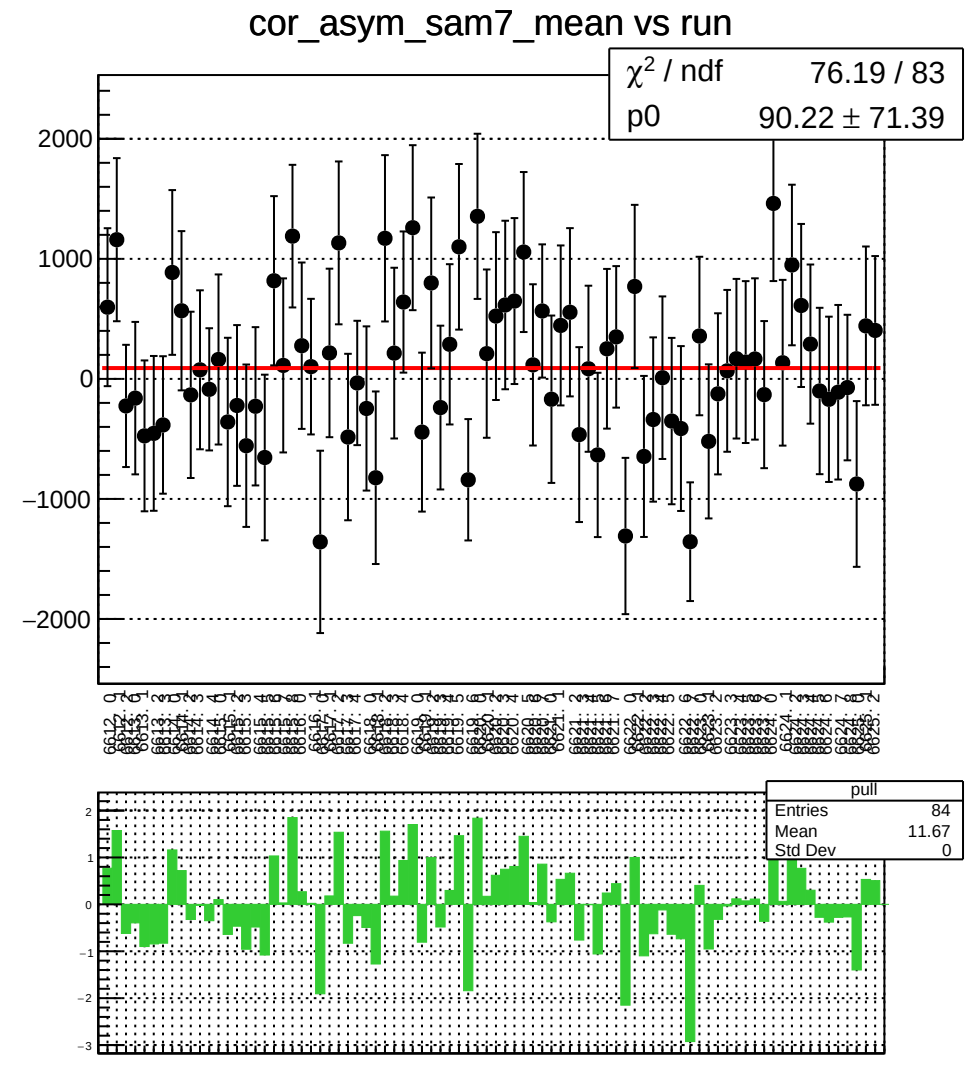

pull1D
Entries 84
Mean 0.01841
Std Dev 0.9522
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

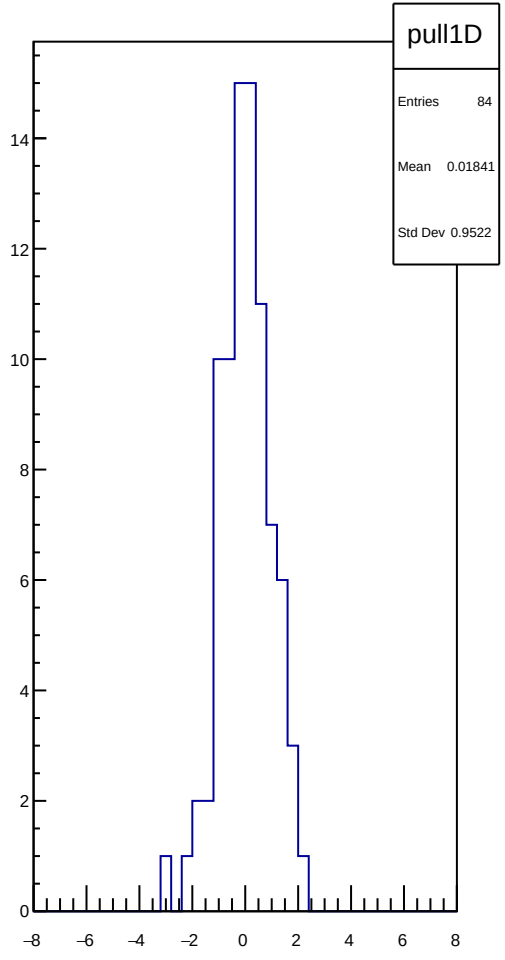

reg_asym_sam7_rms vs run
χ^2 / ndf 1548 / 83
p0 64.47 ± 0.05048
72
70
68
66
64
62
60
58

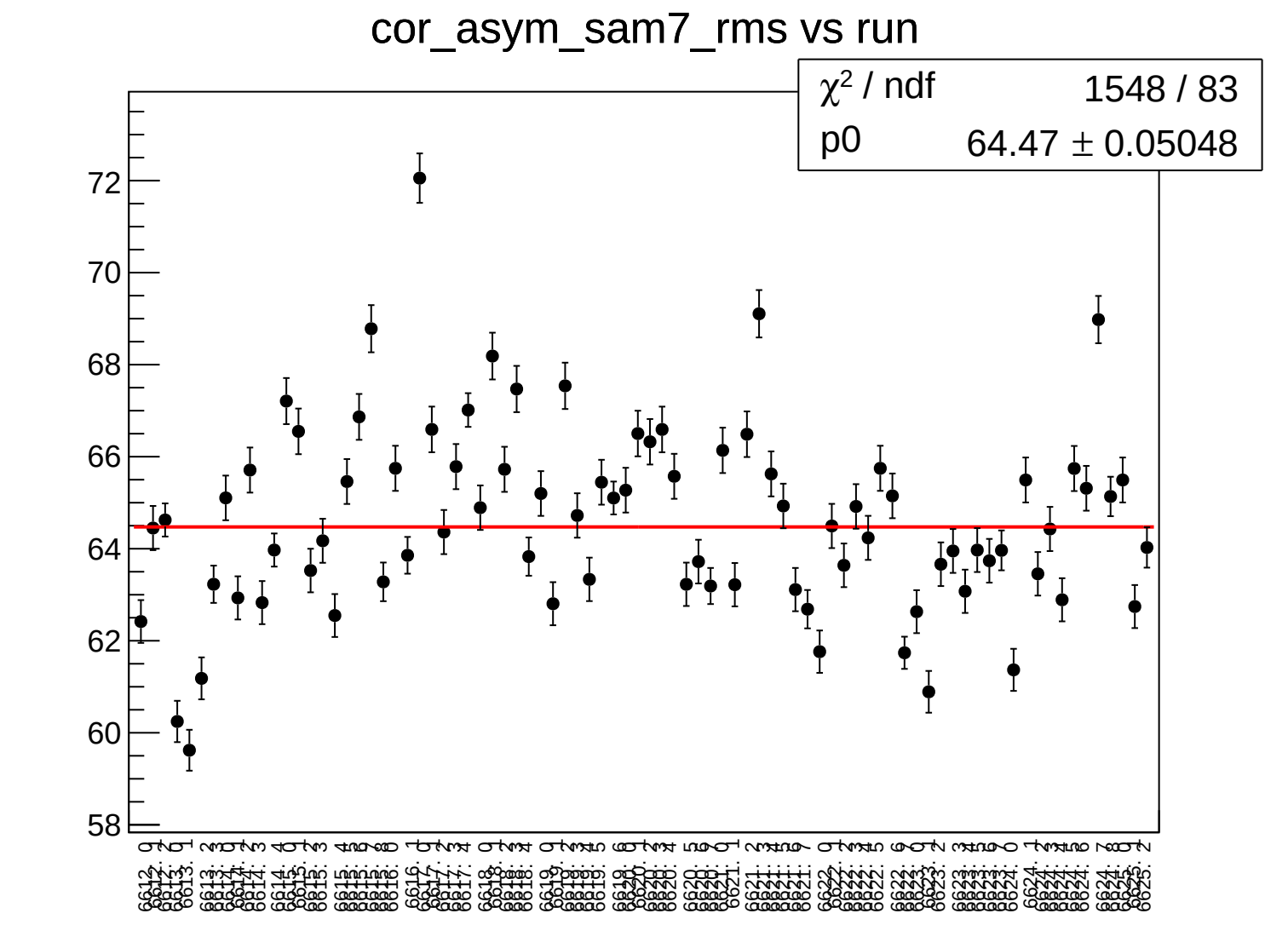

asym_sam7_reg_correction_mean vs run
χ² / ndf 74.68 / 83
p0 −599.9 ± 347.1
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 252.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

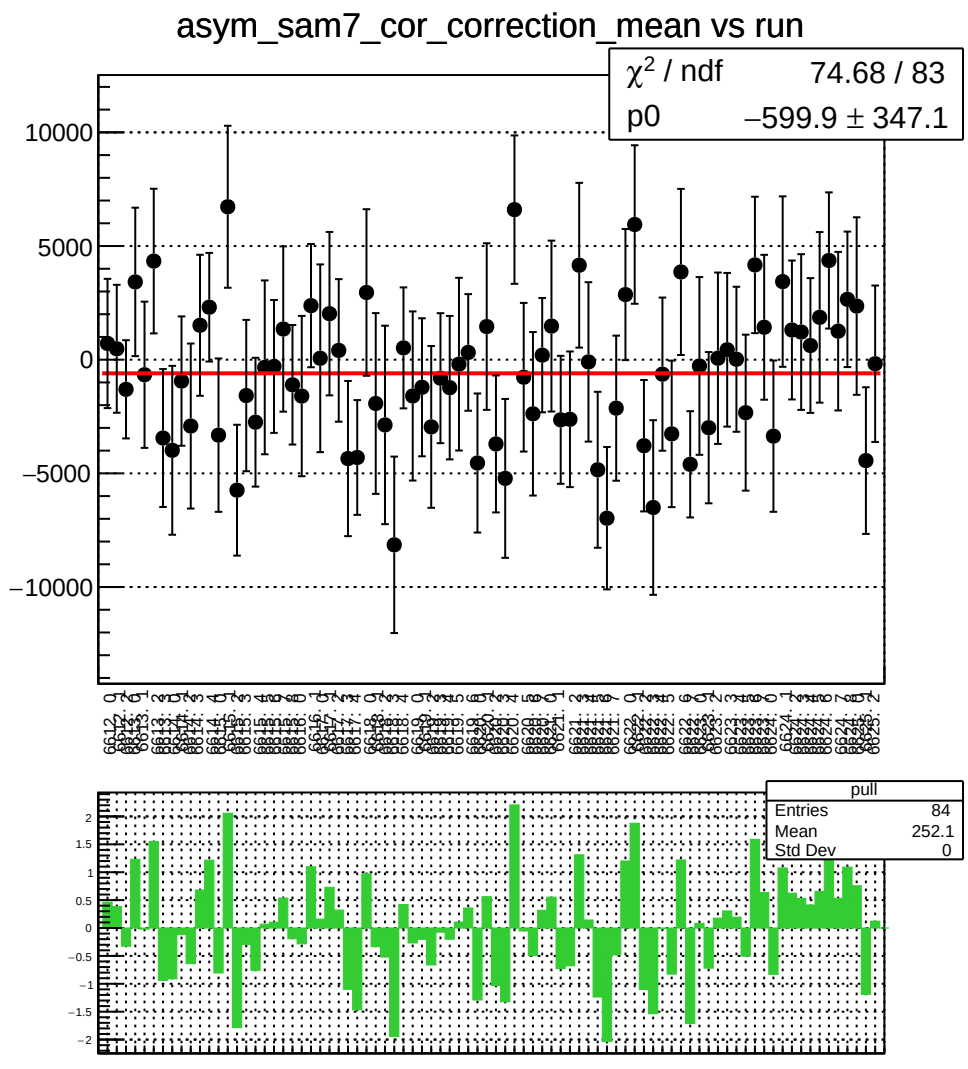

pull1D
Entries 84
Mean 0.008036
Std Dev 0.9429
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

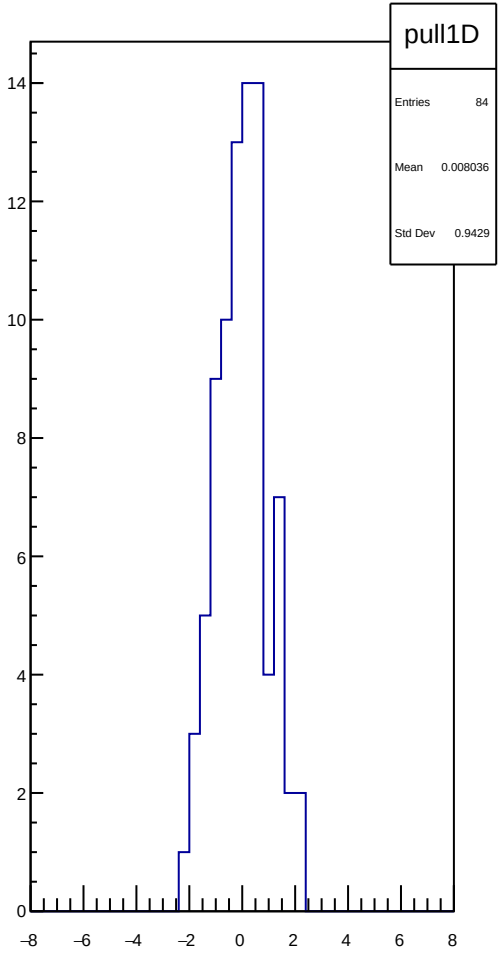

asym_sam7_reg_correction_rms vs run
χ² / ndf 1.626e+04 / 83
p0 312.1 ± 0.2455
420
400
380
360
340
320
300
280
260

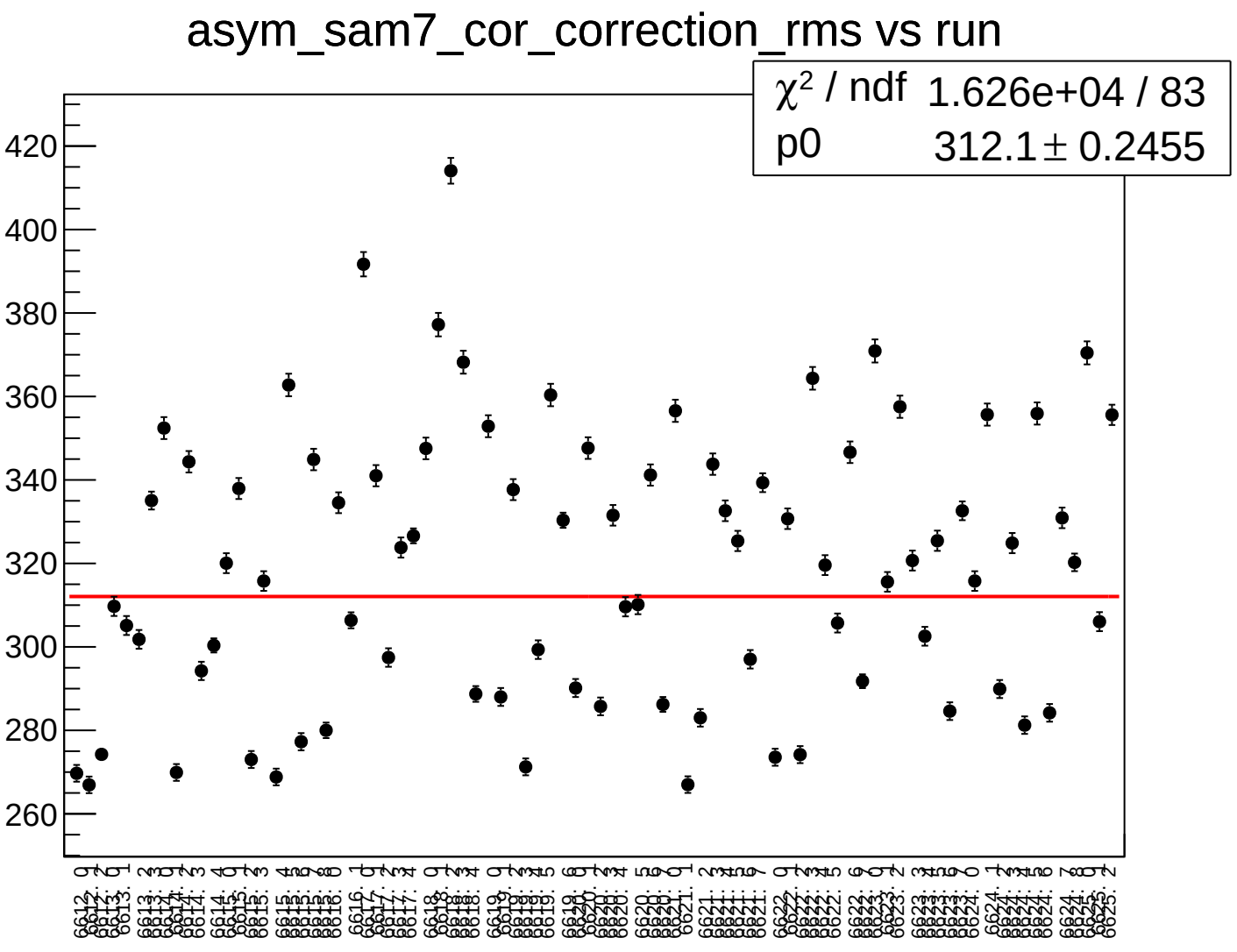

cor_asym_sam7_mean vs run
χ² / ndf 76.19 / 83
p0 90.22 ± 71.39
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 11.67
Std Dev 0
2
1
0
−1
−2
−3

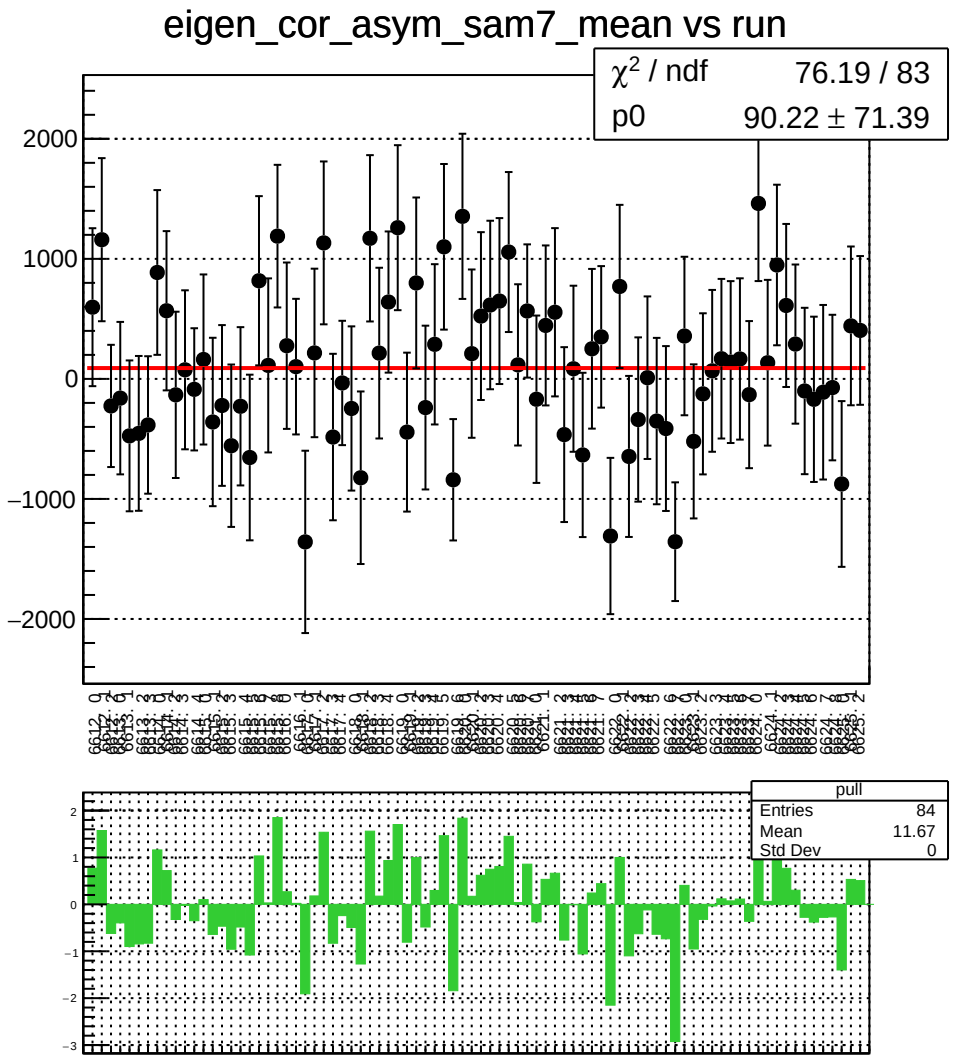

pull1D
Entries 84
Mean 0.01841
Std Dev 0.9522
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

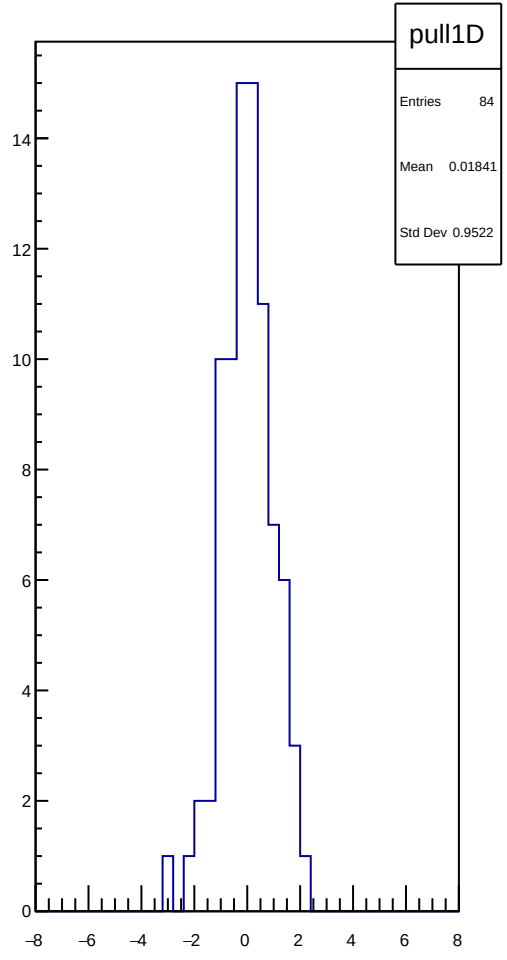

cor_asym_sam7_rms vs run
χ^2 / ndf 1548 / 83
p0 64.47 ± 0.05048
72
70
68
66
64
62
60
58

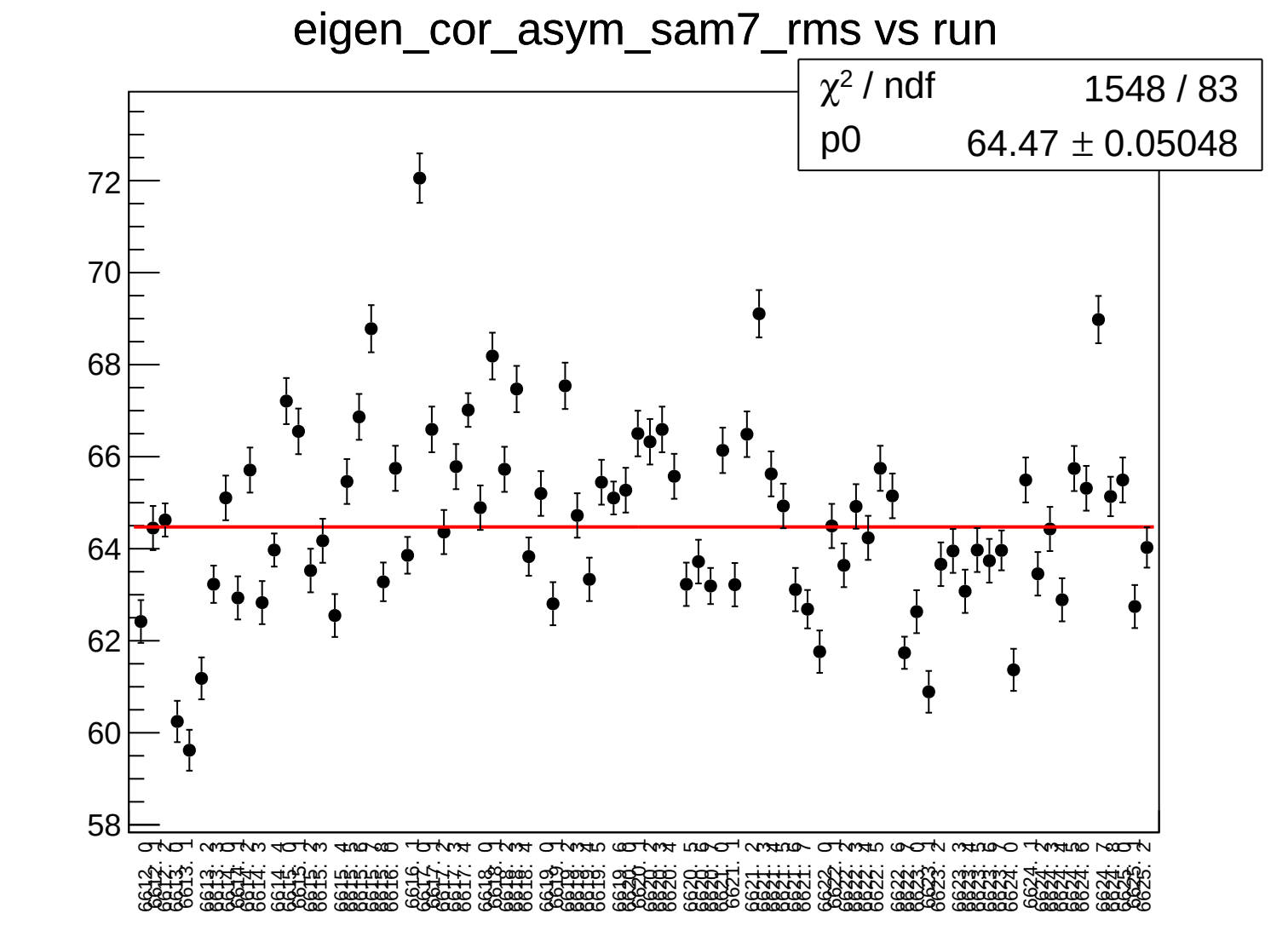

asym_sam7_cor_correction_mean vs run
χ² / ndf 74.68 / 83
p0 −599.9 ± 347.1
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 252.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

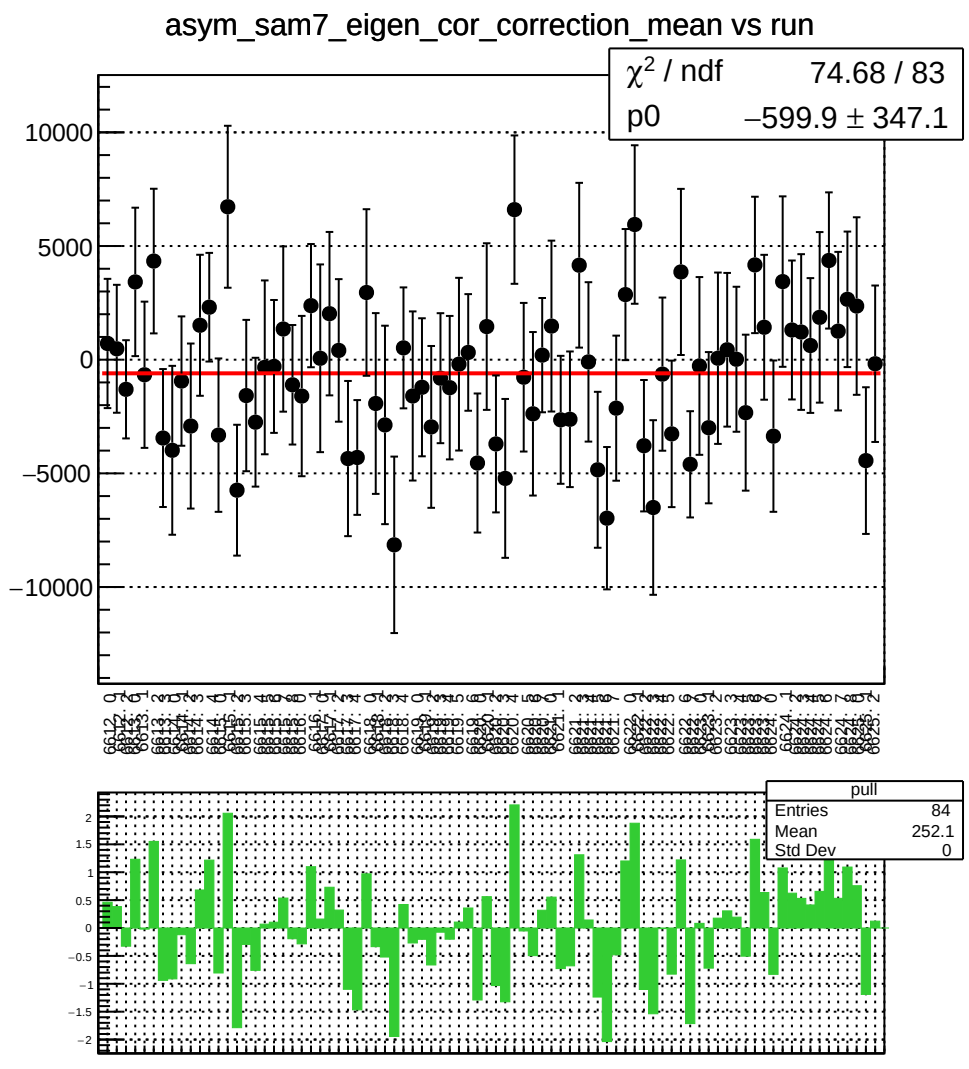

pull1D
Entries 84
Mean 0.008036
Std Dev 0.9429
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

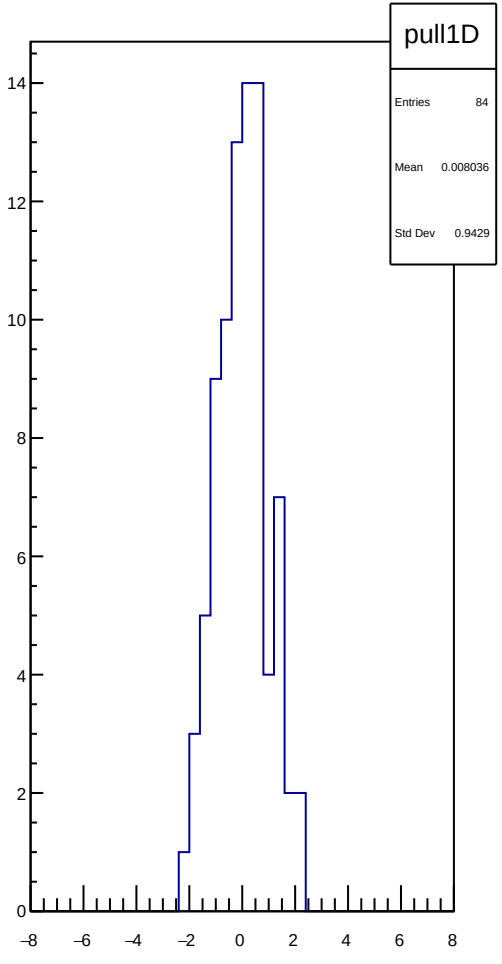

asym_sam7_cor_correction_rms vs run
χ² / ndf 1.626e+04 / 83
p0 312.1 ± 0.2455
420
400
380
360
340
320
300
280
260

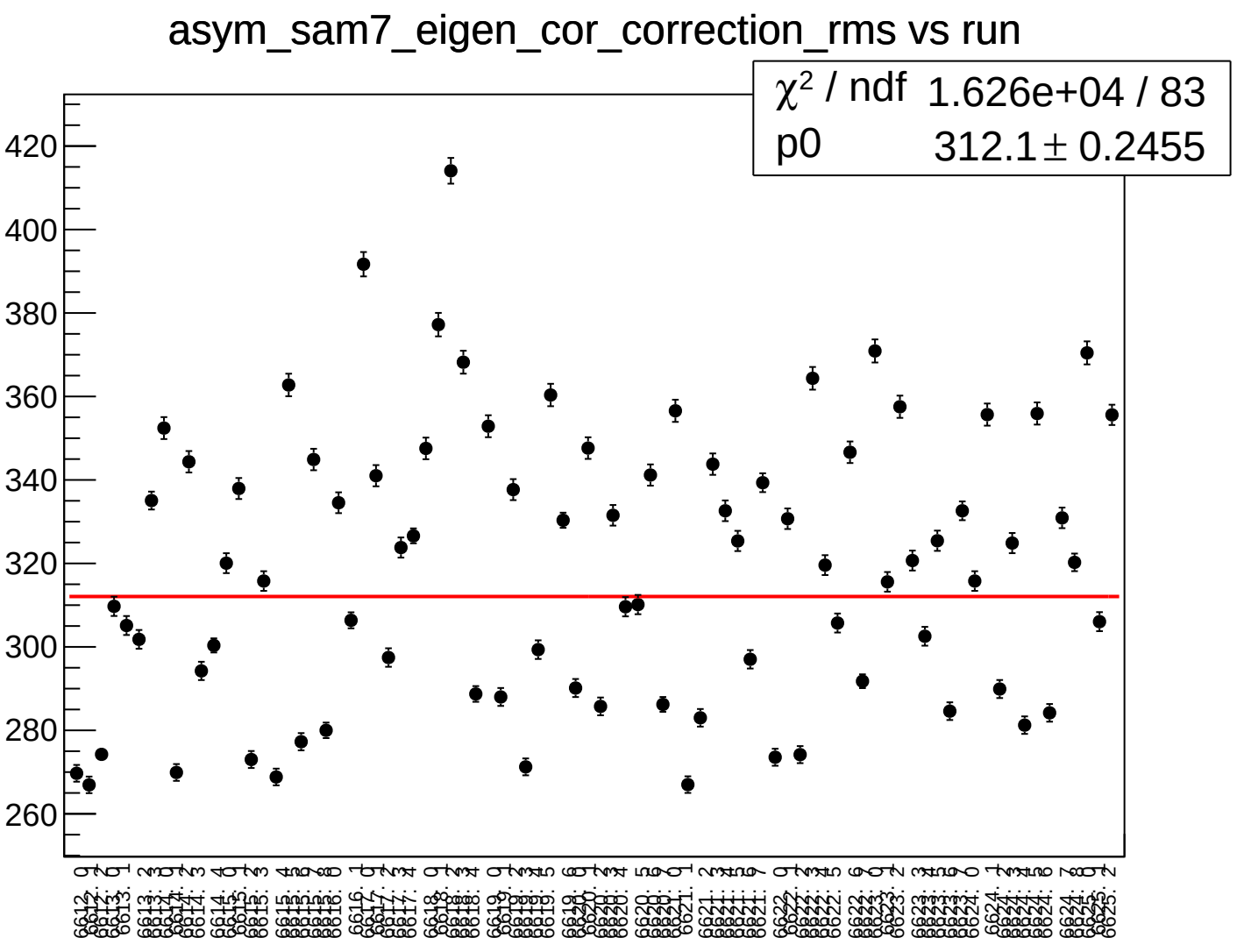

eigen_cor_asym_sam7_mean vs run
χ² / ndf 76.19 / 83
p0 90.22 ± 71.39
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 11.67
Std Dev 0
2
1
0
−1
−2
−3

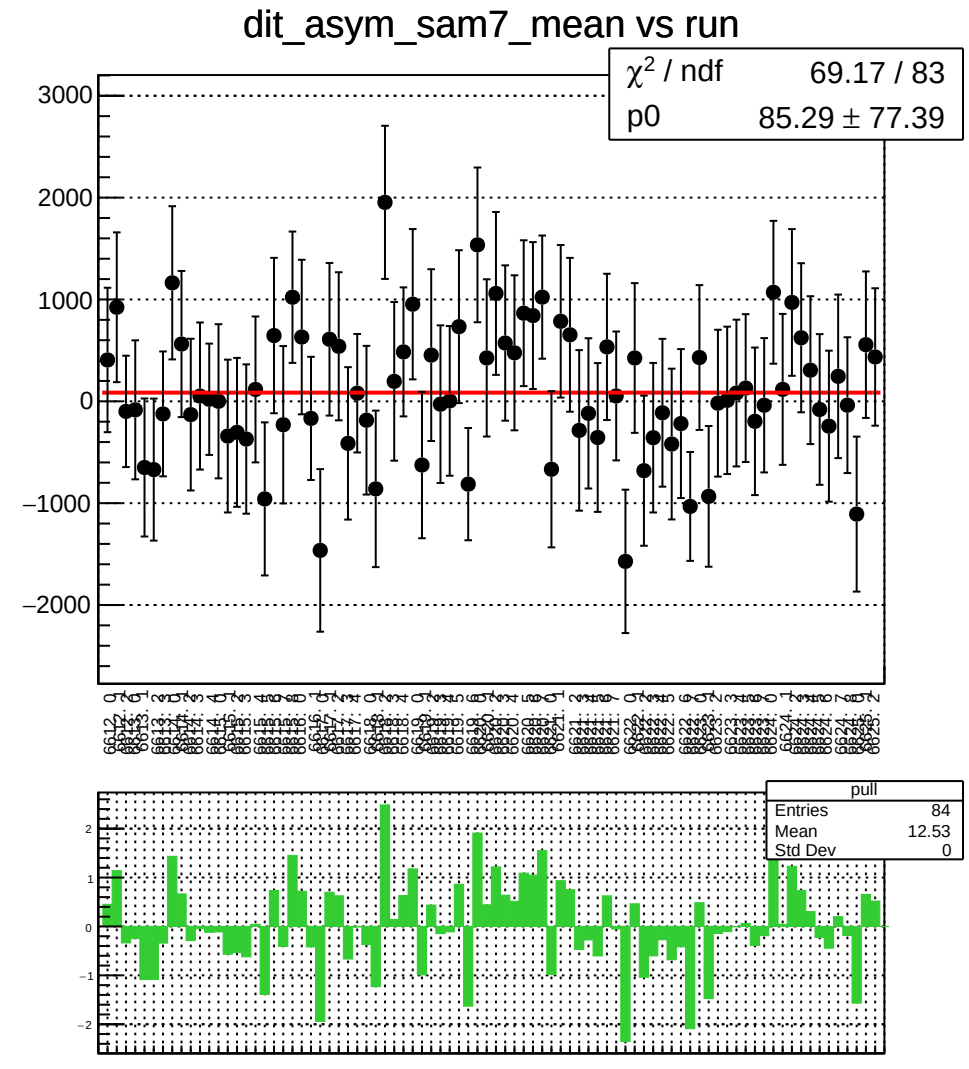

pull1D
Entries 84
Mean 0.01841
Std Dev 0.9522
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

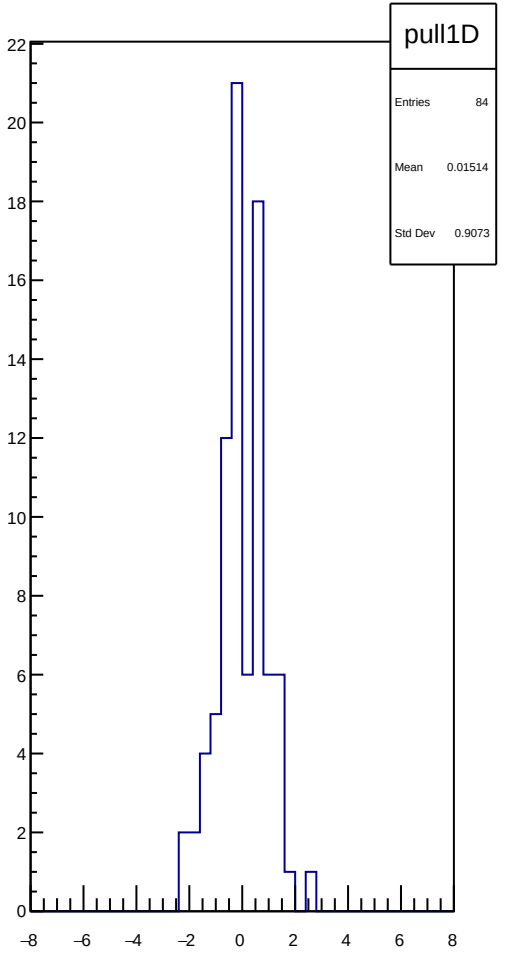

eigen_cor_asym_sam7_rms vs run
χ² / ndf 1548 / 83
p0 64.47 ± 0.05048
72
70
68
66
64
62
60
58

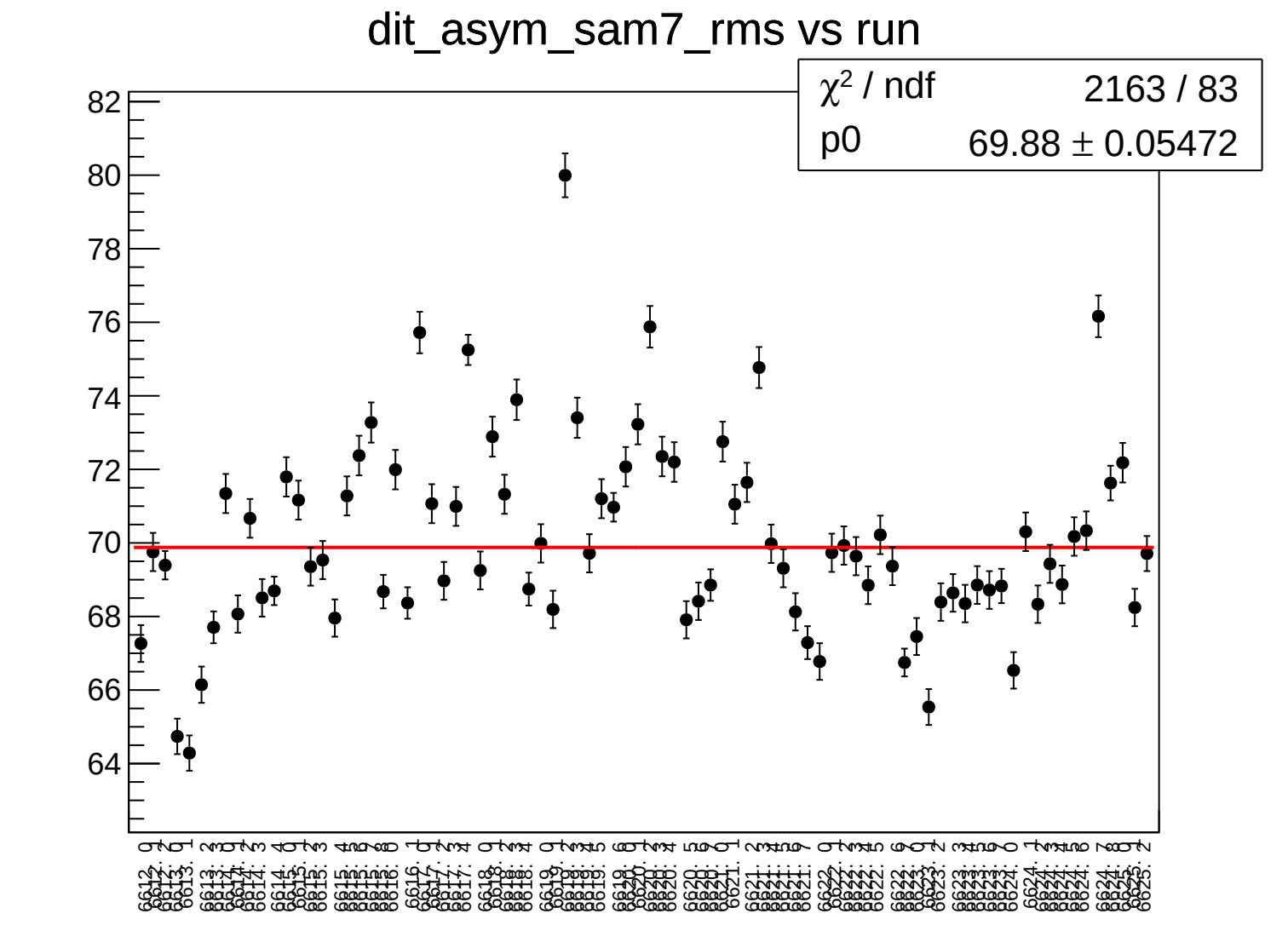

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 74.68 / 83
p0 −599.9 ± 347.1
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 252.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

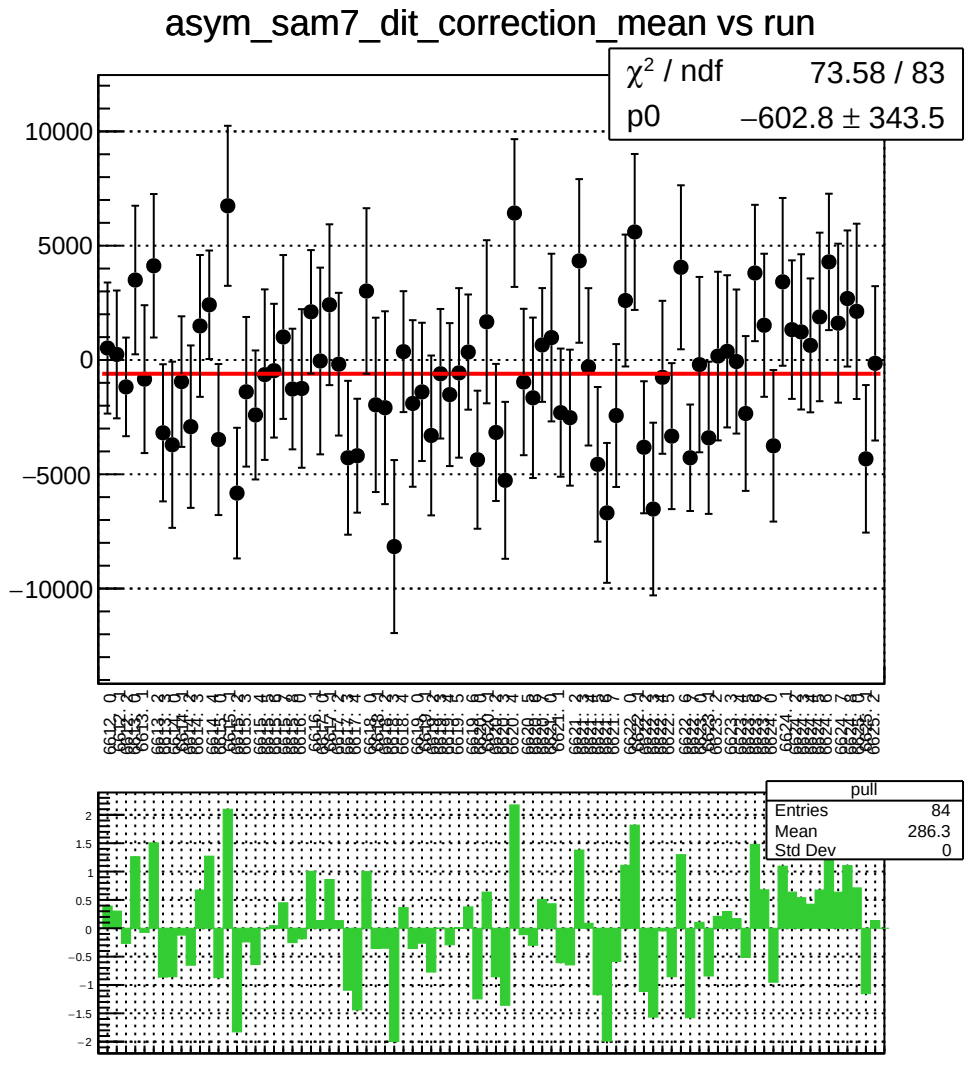

pull1D
Entries 84
Mean 0.008036
Std Dev 0.9429
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

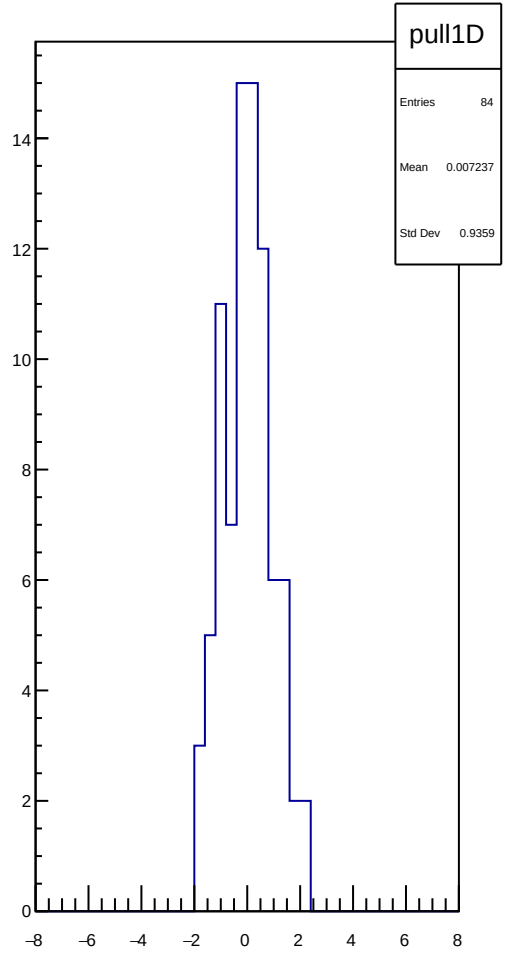

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 1.626e+04 / 83
p0 312.1 ± 0.2455
420
400
380
360
340
320
300
280
260

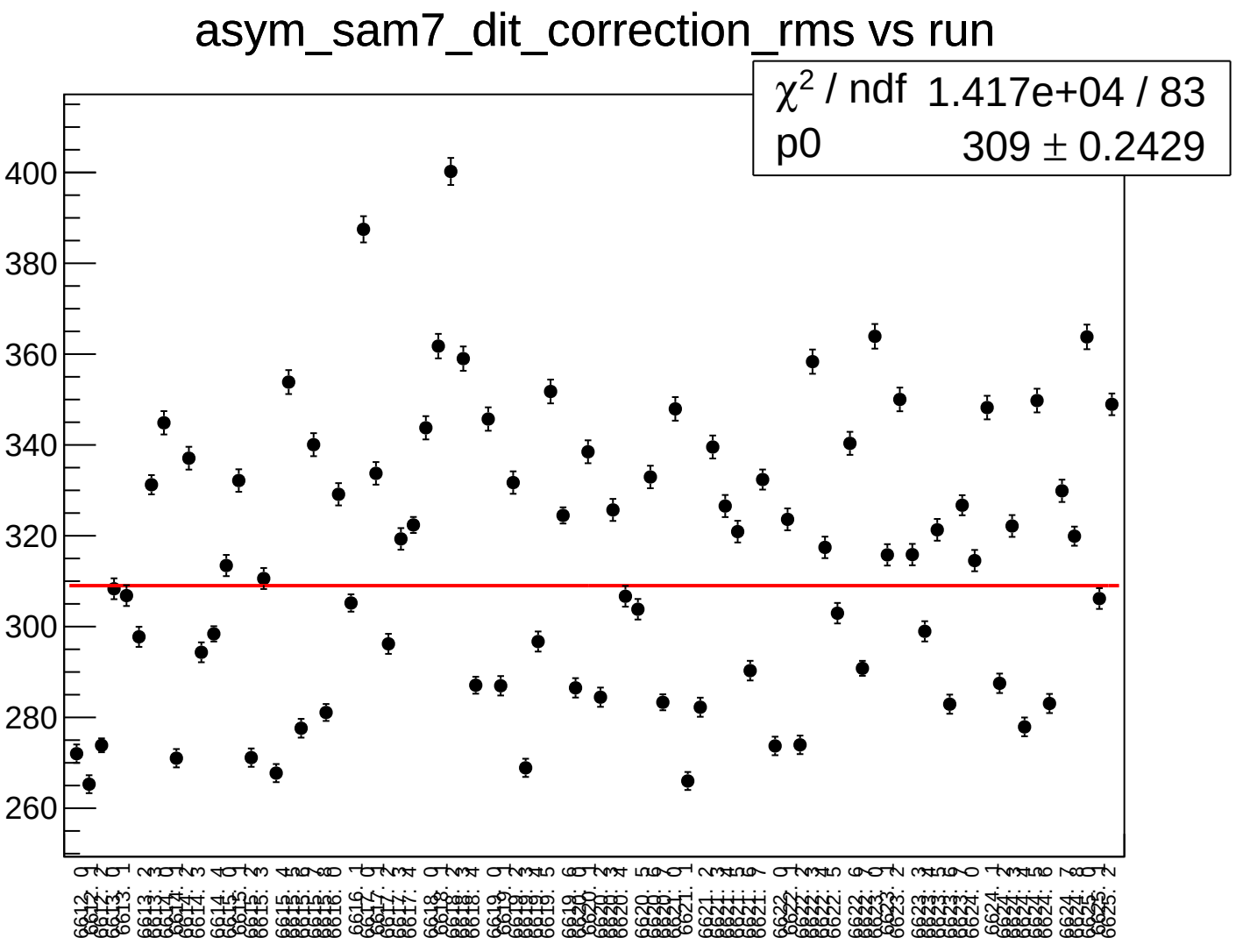

dit_asym_sam7_mean vs run
χ² / ndf 69.17 / 83
p0 85.29 ± 77.39
3000
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 12.53
Std Dev 0
2
1
0
−1
−2

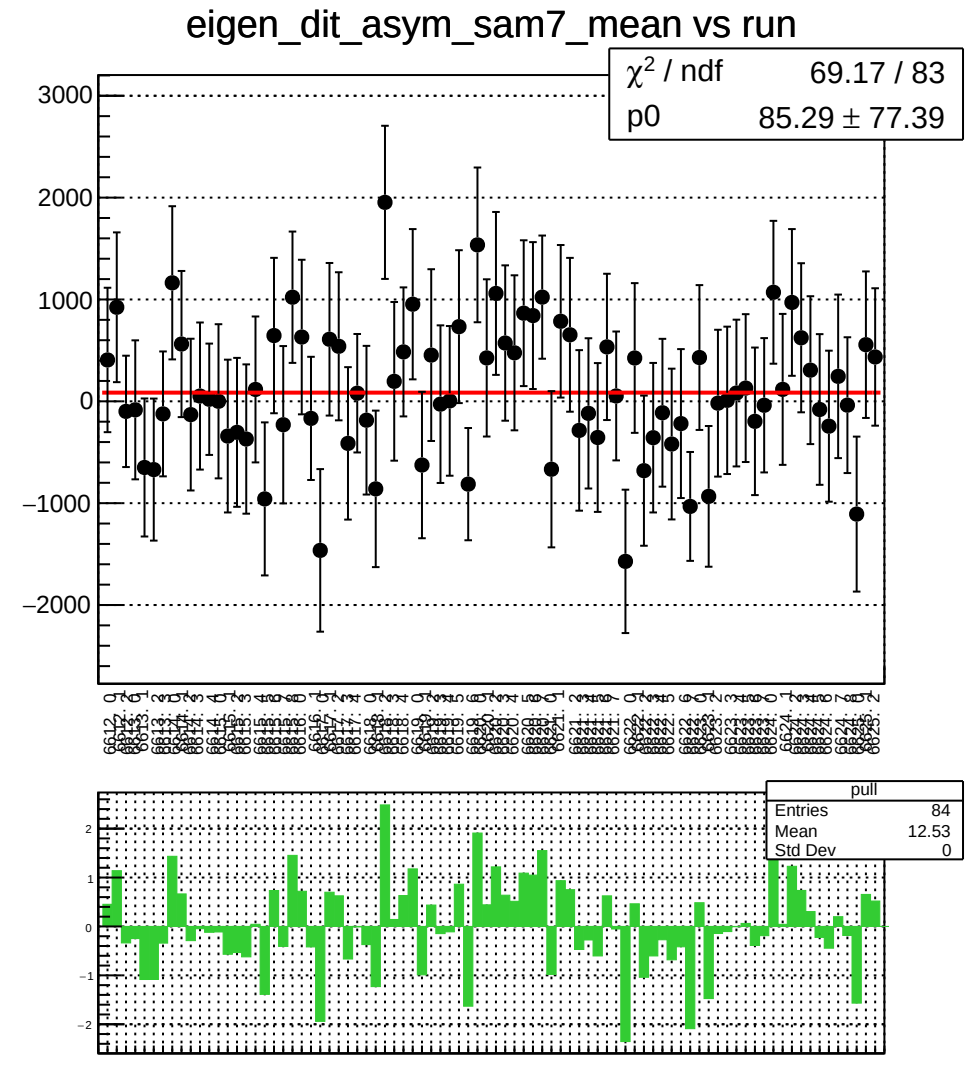

pull1D
Entries 84
Mean 0.01514
Std Dev 0.9073
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

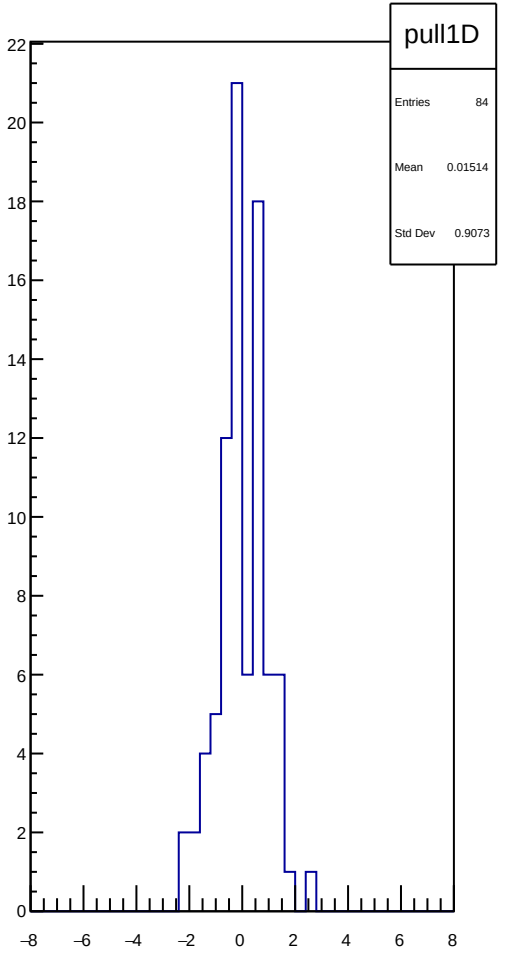

dit_asym_sam7_rms vs run
χ^2 / ndf 2163 / 83
p0 69.88 ± 0.05472
82
80
78
76
74
72
70
68
66
64

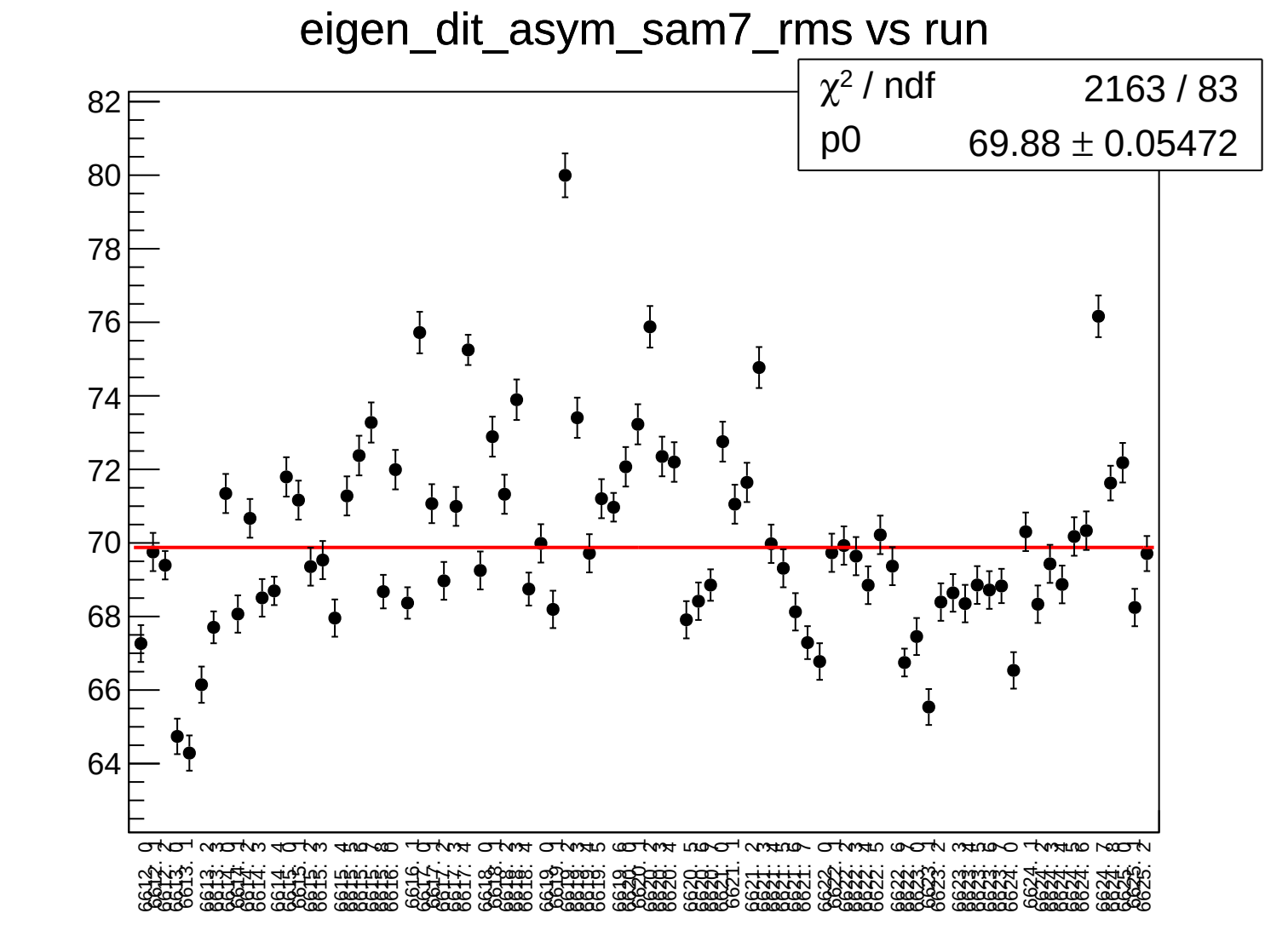

asym_sam7_dit_correction_mean vs run
χ² / ndf 73.58 / 83
p0 −602.8 ± 343.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 286.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

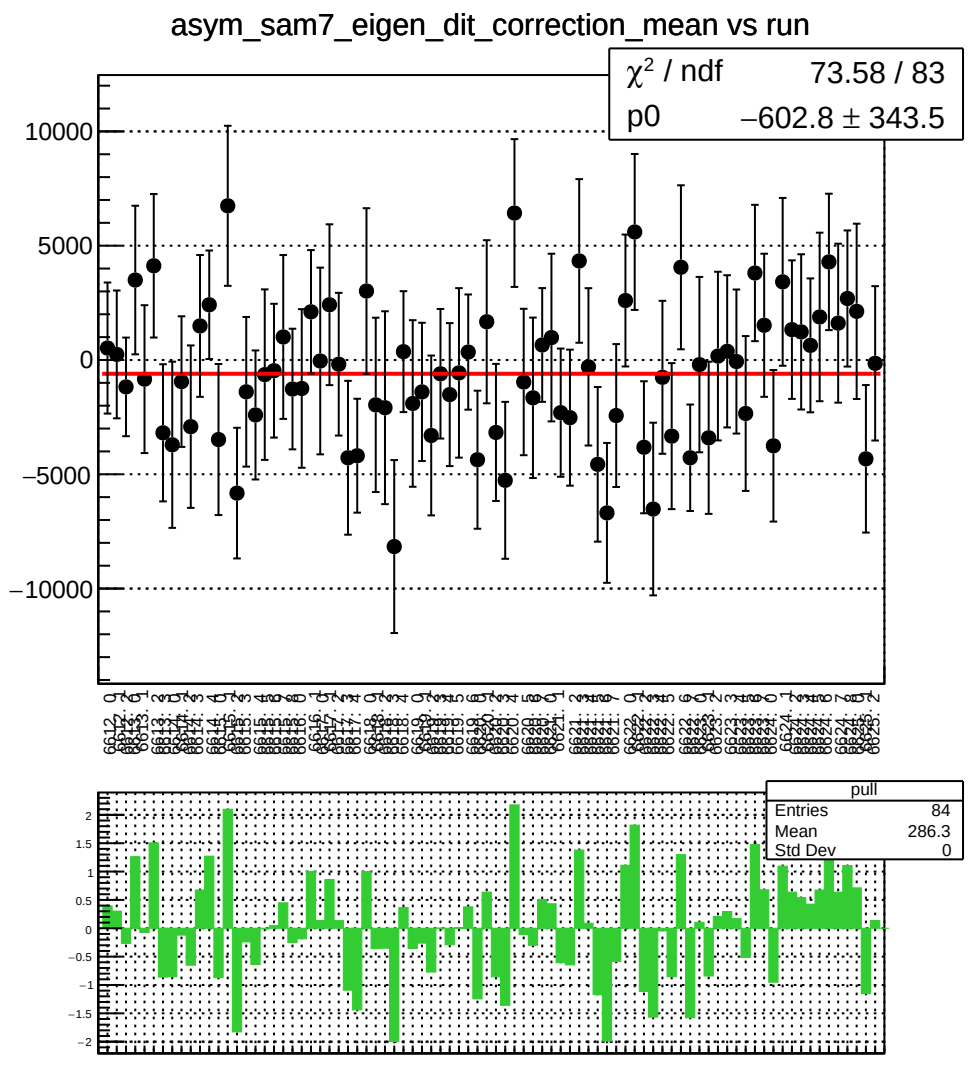

pull1D
Entries 84
Mean 0.007237
Std Dev 0.9359
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

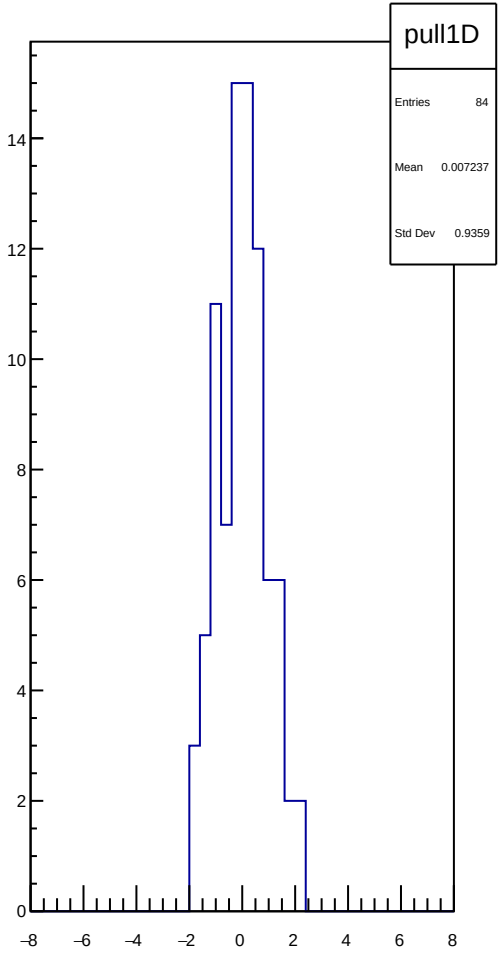

asym_sam7_dit_correction_rms vs run
χ² / ndf 1.417e+04 / 83
p0 309 ± 0.2429
400
380
360
340
320
300
280
260

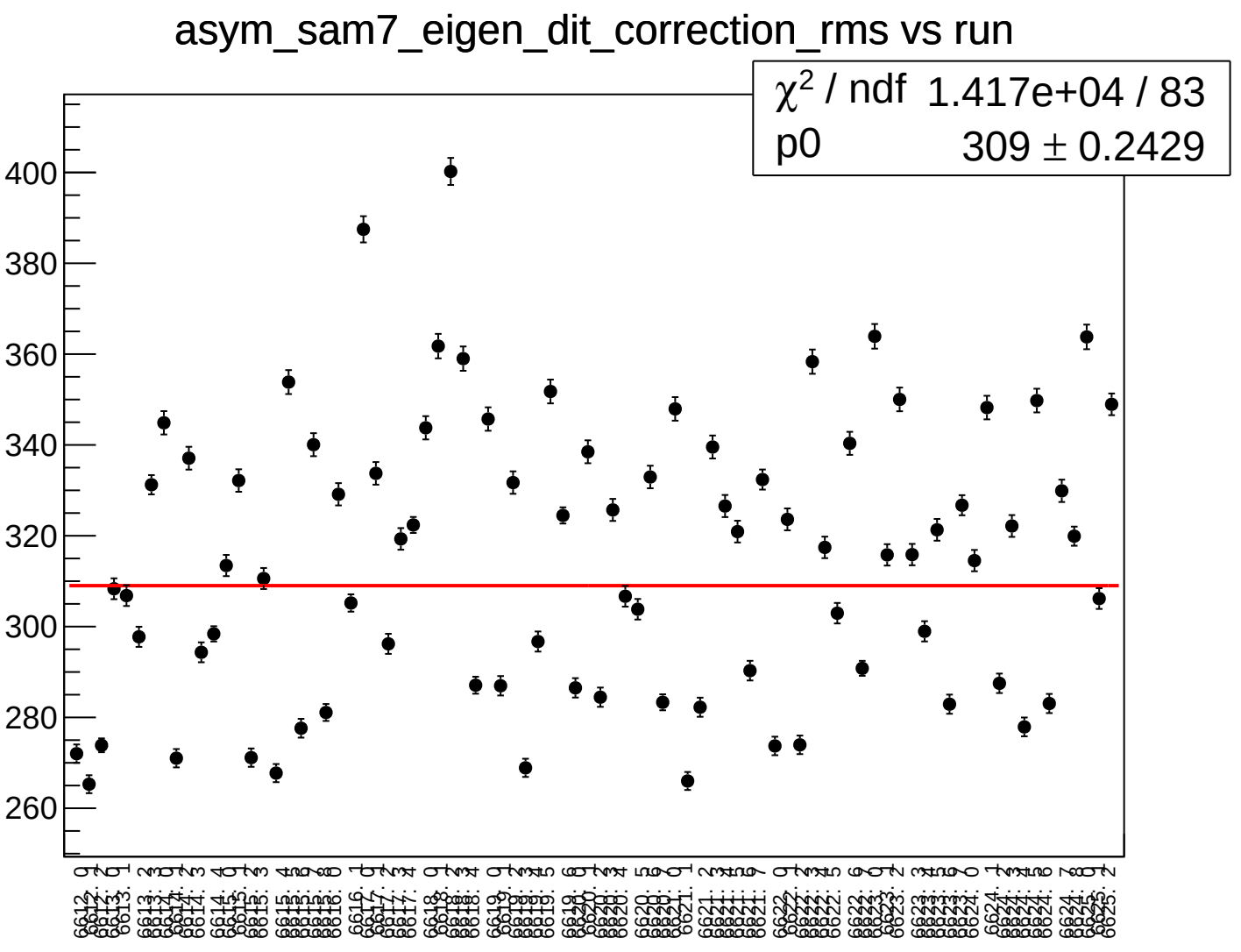

eigen_dit_asym_sam7_mean vs run
χ² / ndf 69.17 / 83
p0 85.29 ± 77.39
3000
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 12.53
Std Dev 0
2
1
0
−1
−2

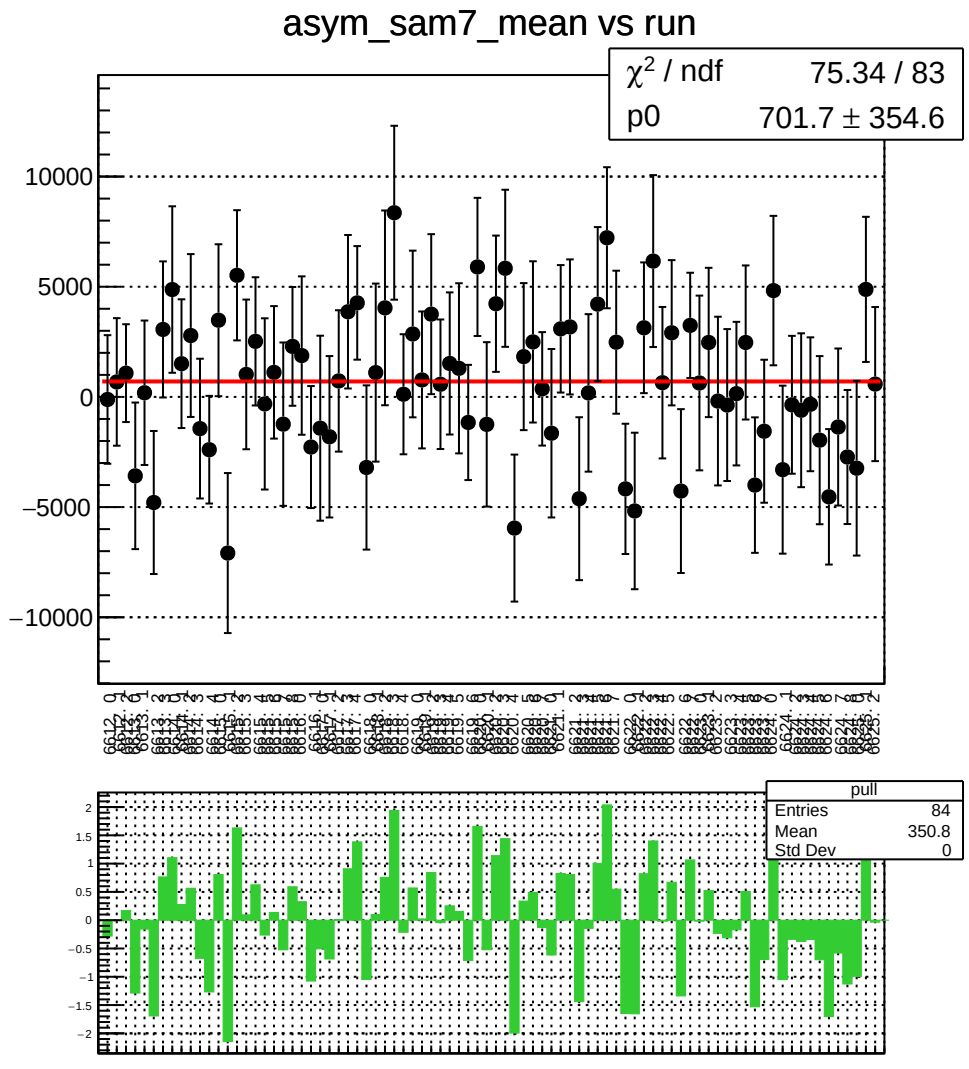

pull1D
Entries 84
Mean 0.01514
Std Dev 0.9073
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

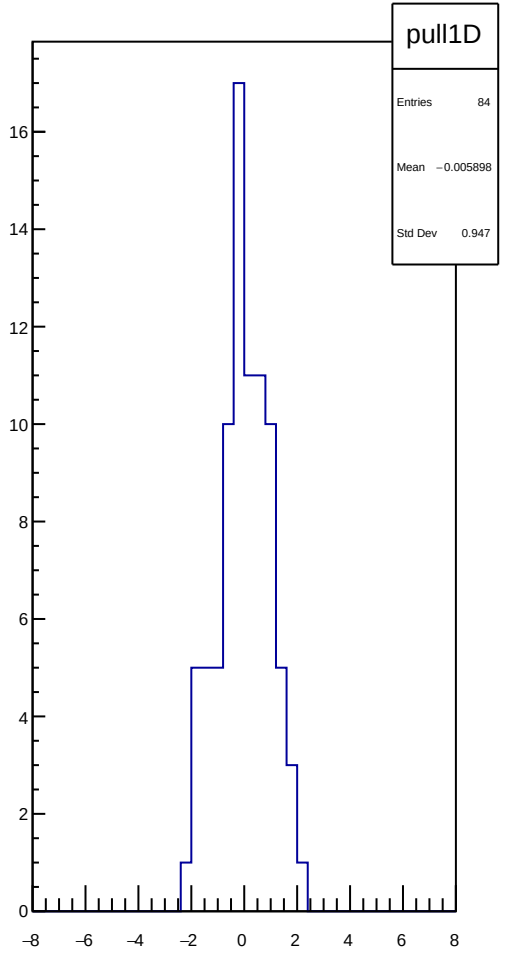

eigen_dit_asym_sam7_rms vs run
χ² / ndf 2163 / 83
p0 69.88 ± 0.05472
82
80
78
76
74
72
70
68
66
64

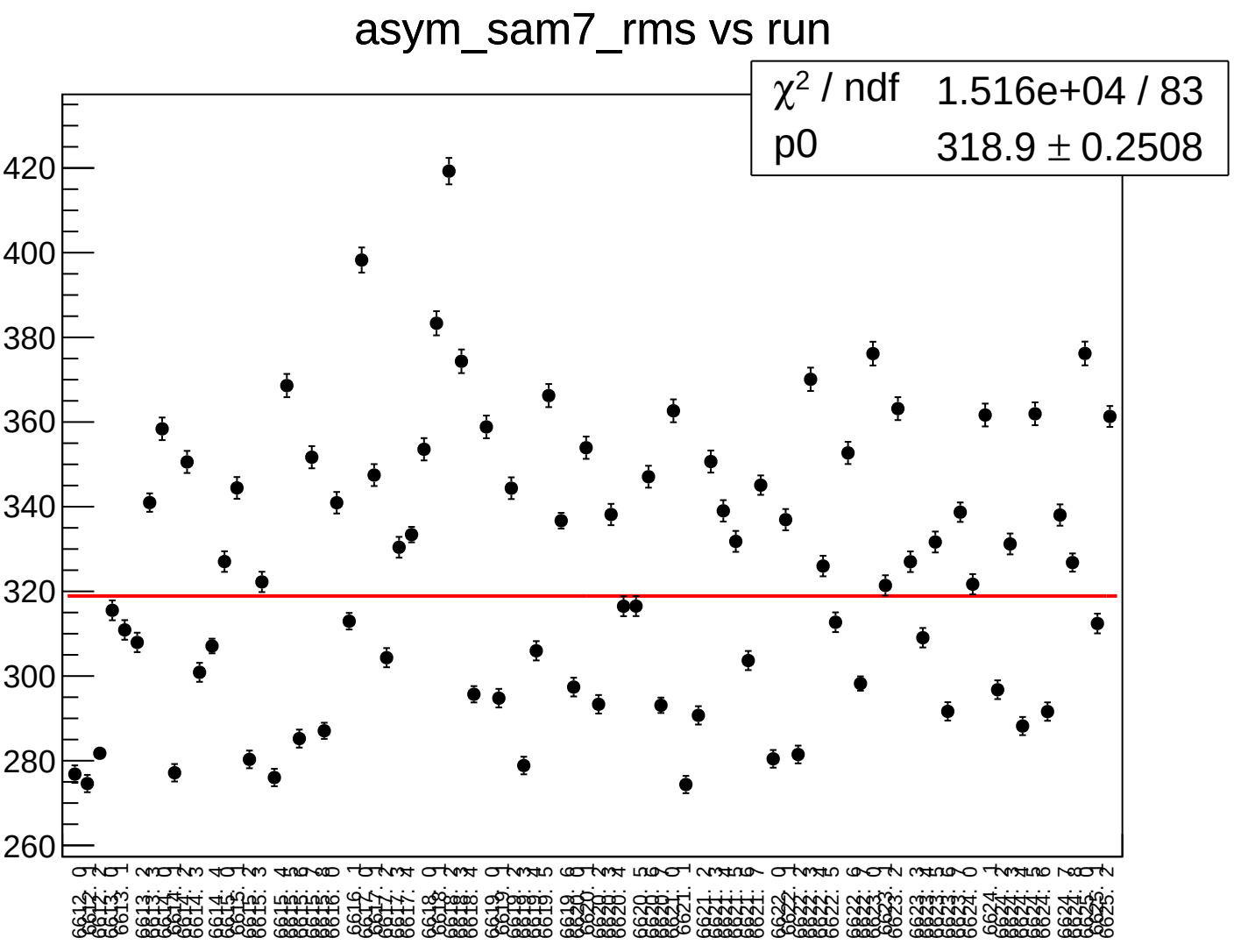

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 73.58 / 83
p0 −602.8 ± 343.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 286.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

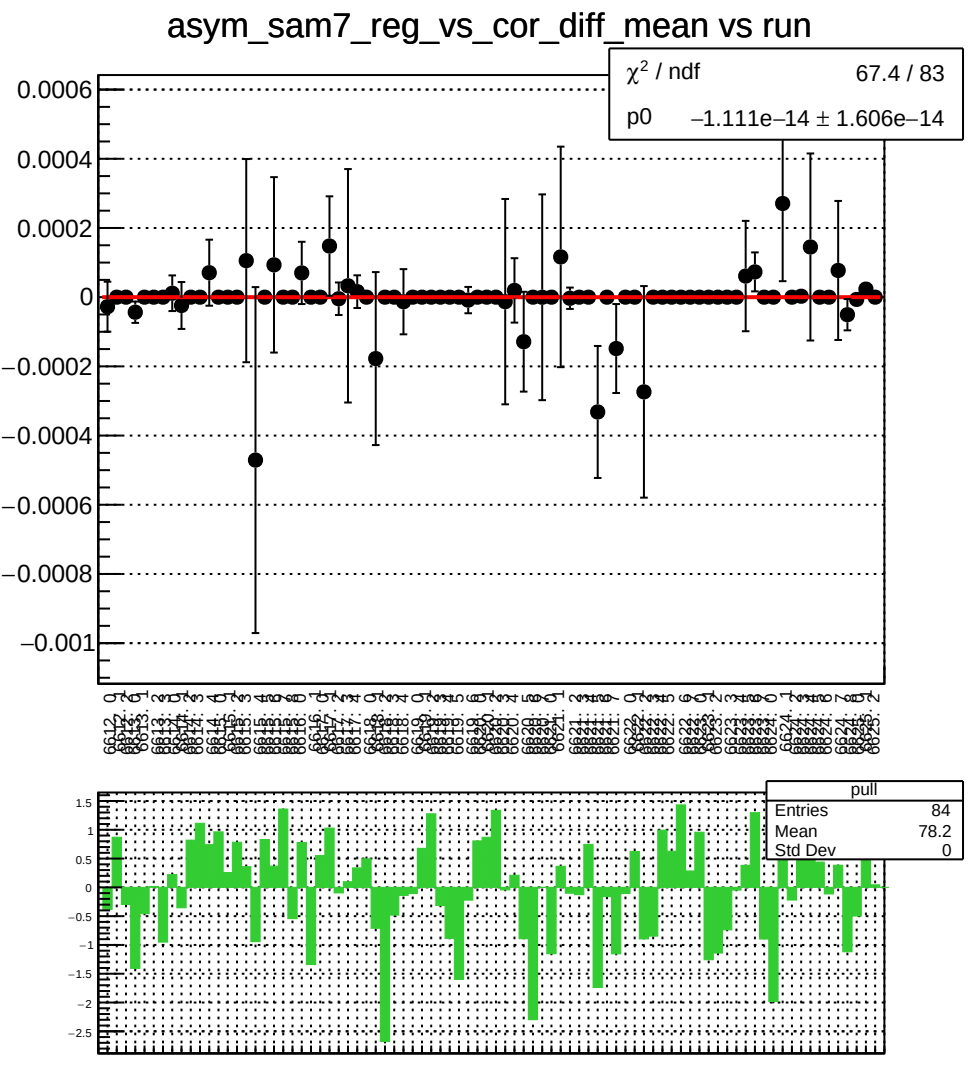

pull1D
Entries 84
Mean 0.007237
Std Dev 0.9359
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

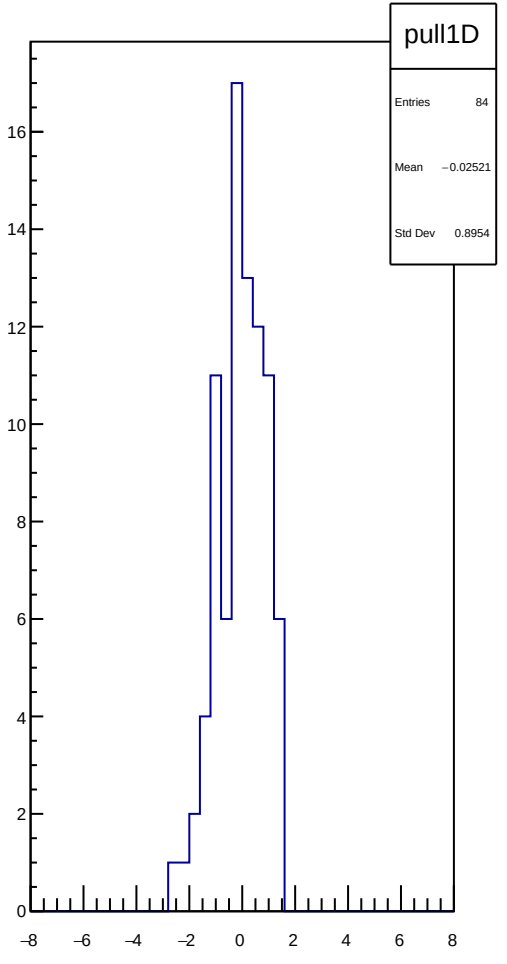

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 1.417e+04 / 83
p0 309 ± 0.2429
400
380
360
340
320
300
280
260

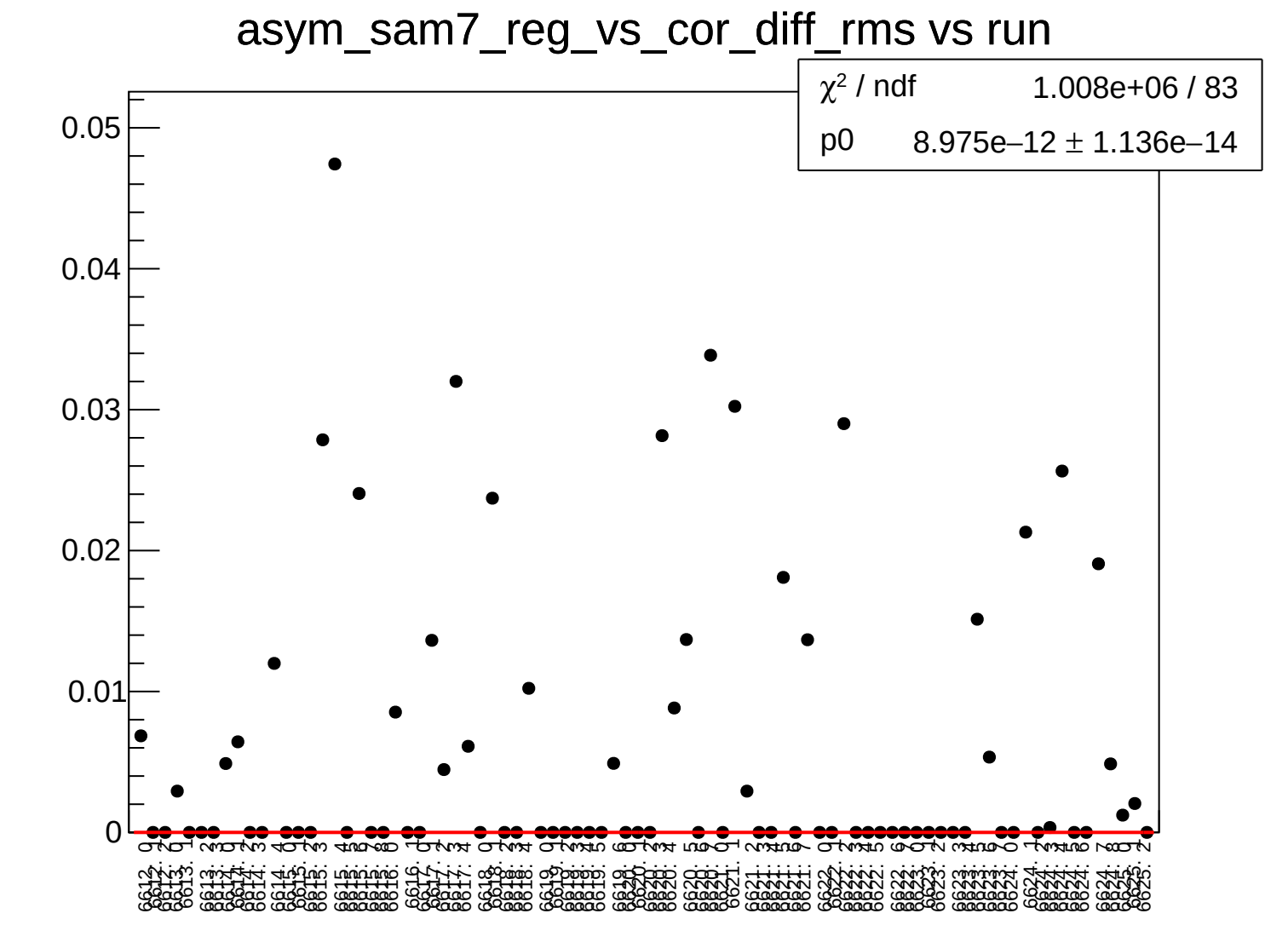

asym_sam7_mean vs run
χ² / ndf 75.34 / 83
p0 701.7 ± 354.6
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 350.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

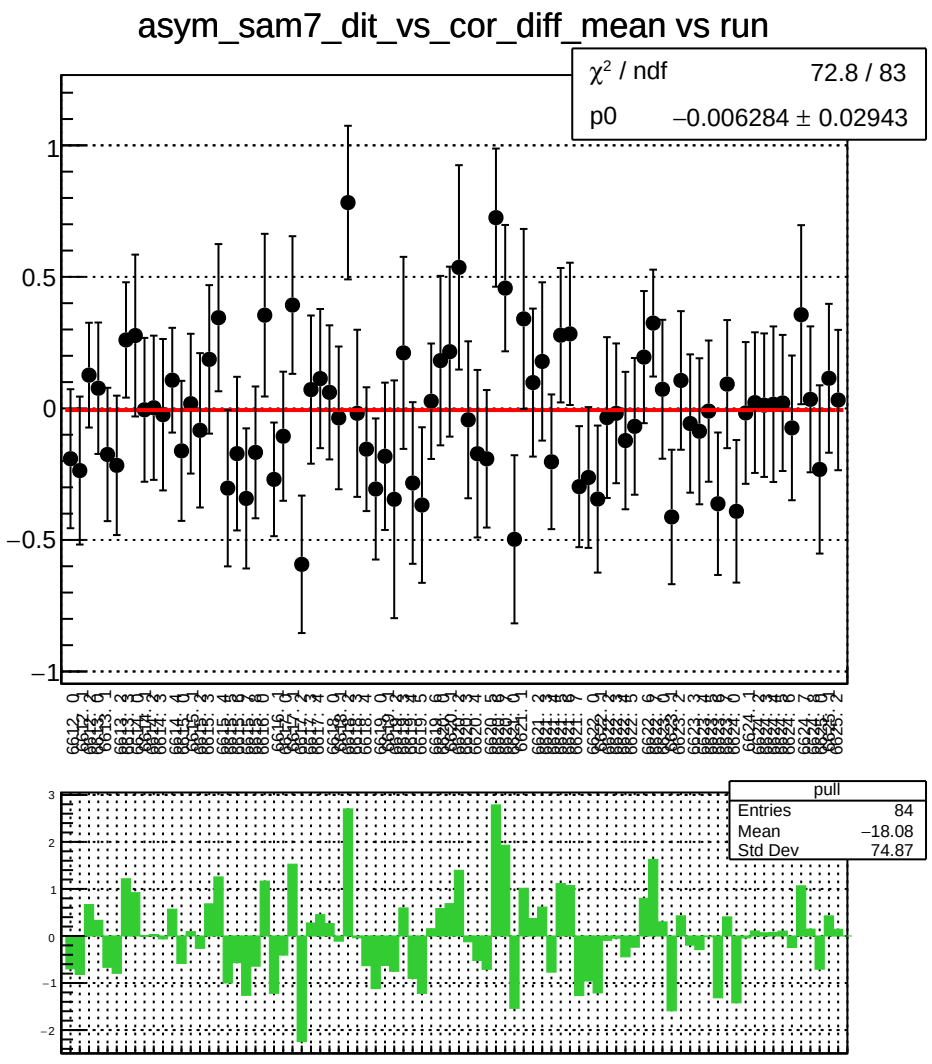

pull1D
Entries 84
Mean −0.005898
Std Dev 0.947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

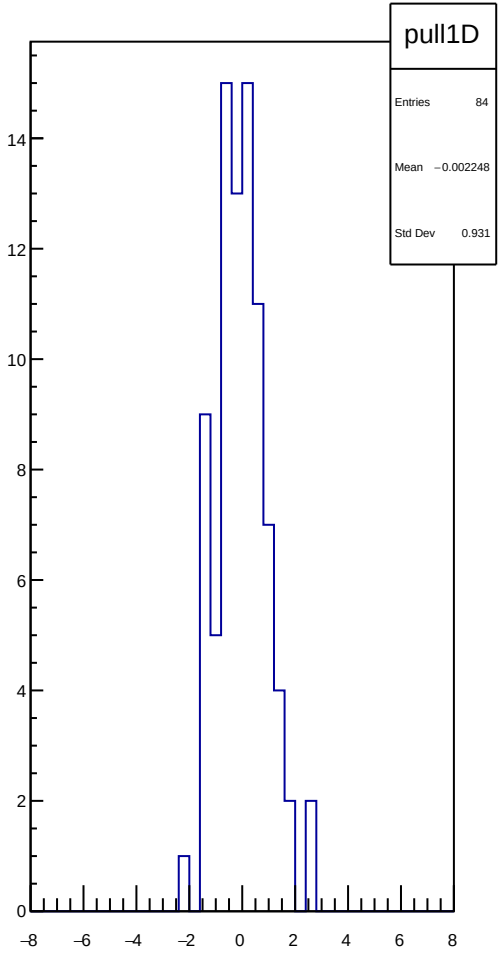

asym_sam7_rms vs run
χ^2 / ndf 1.516e+04 / 83
p0 318.9 ± 0.2508
420
400
380
360
340
320
300
280
260

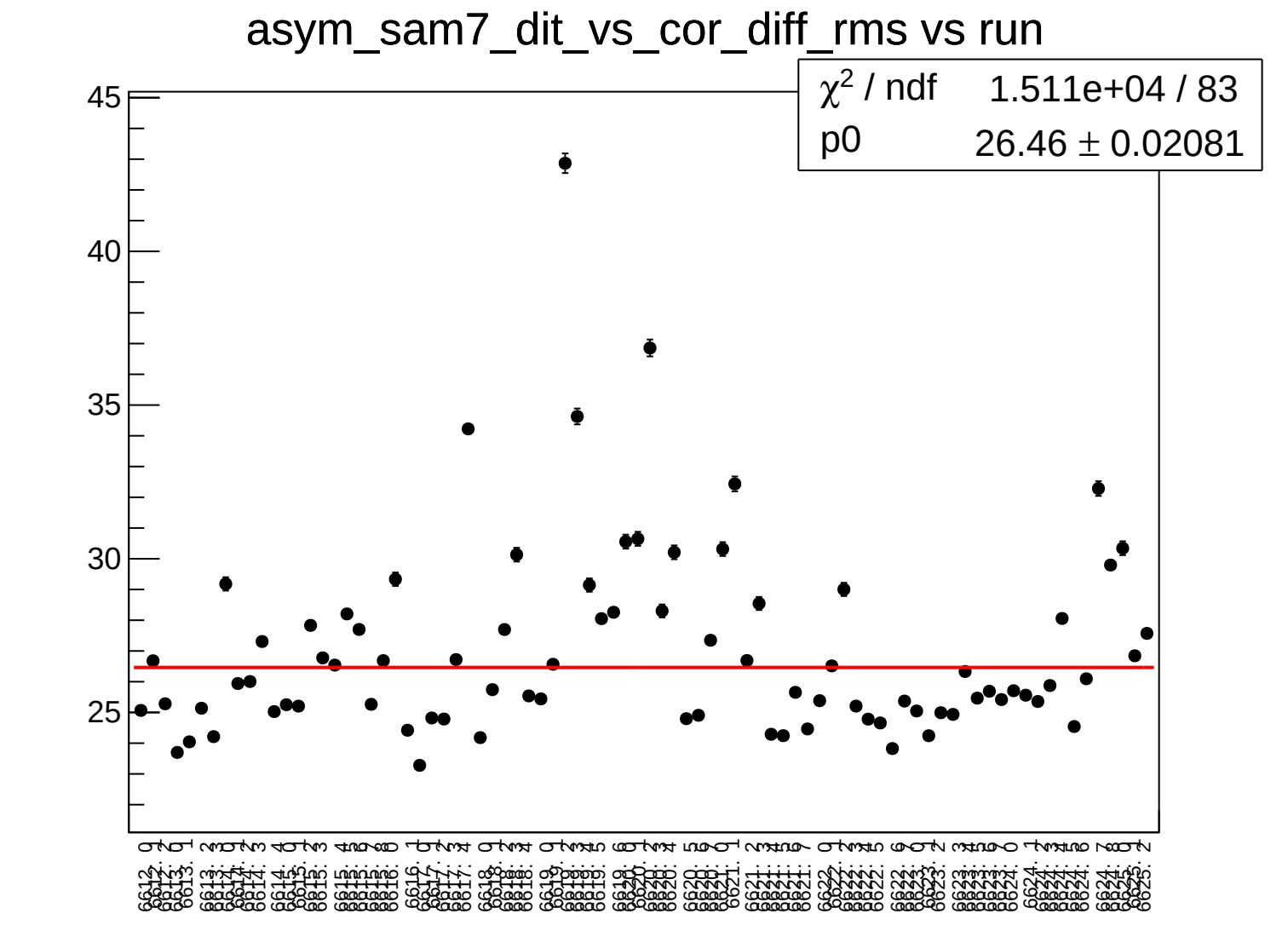

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 67.4 / 83
p0 −1.111e−14 ± 1.606e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 84
Mean 78.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

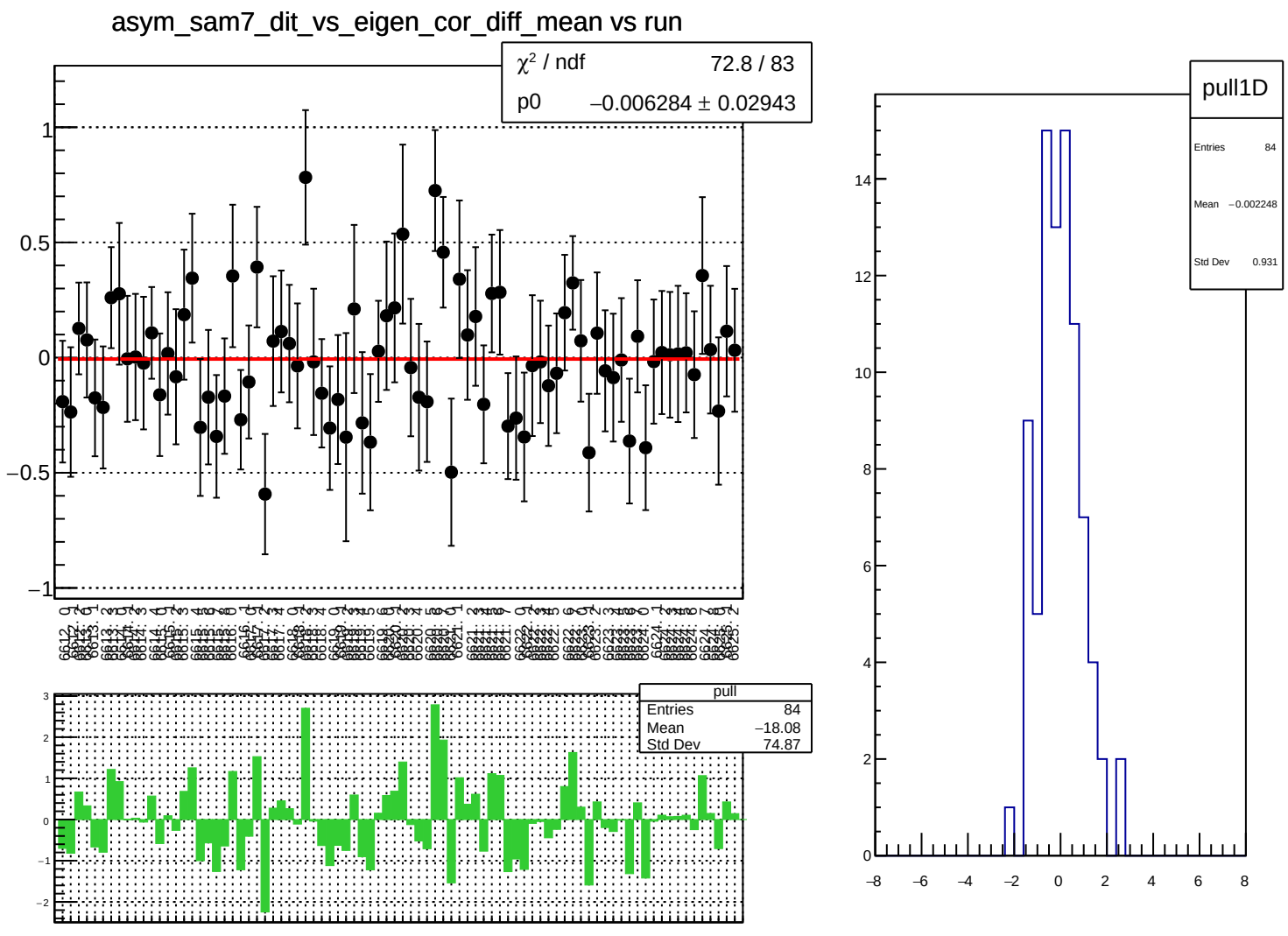

pull1D
Entries 84
Mean −0.02521
Std Dev 0.8954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

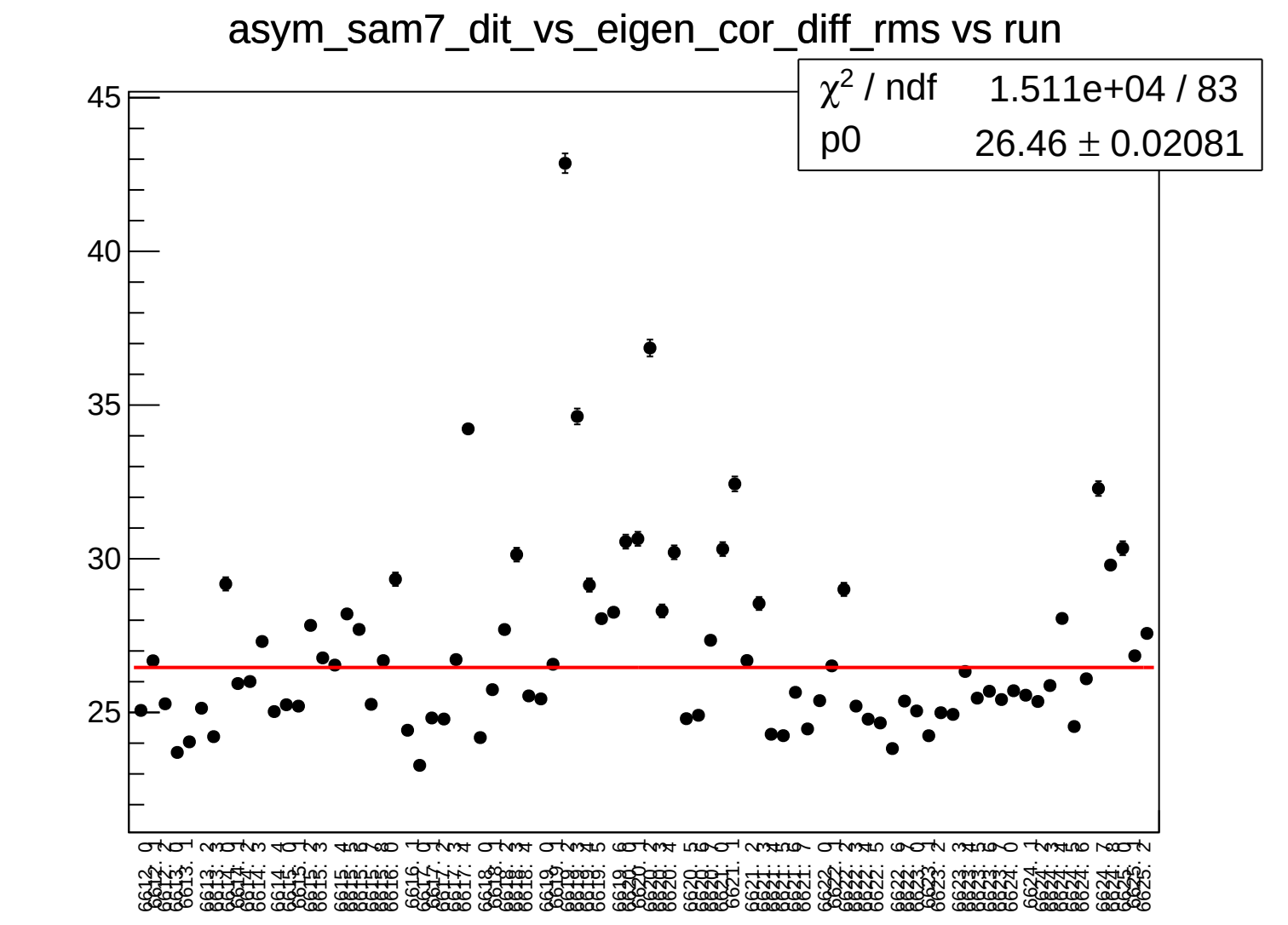

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.008e+06 / 83
p0 8.975e−12 ± 1.136e−14
0.05
0.04
0.03
0.02
0.01
0

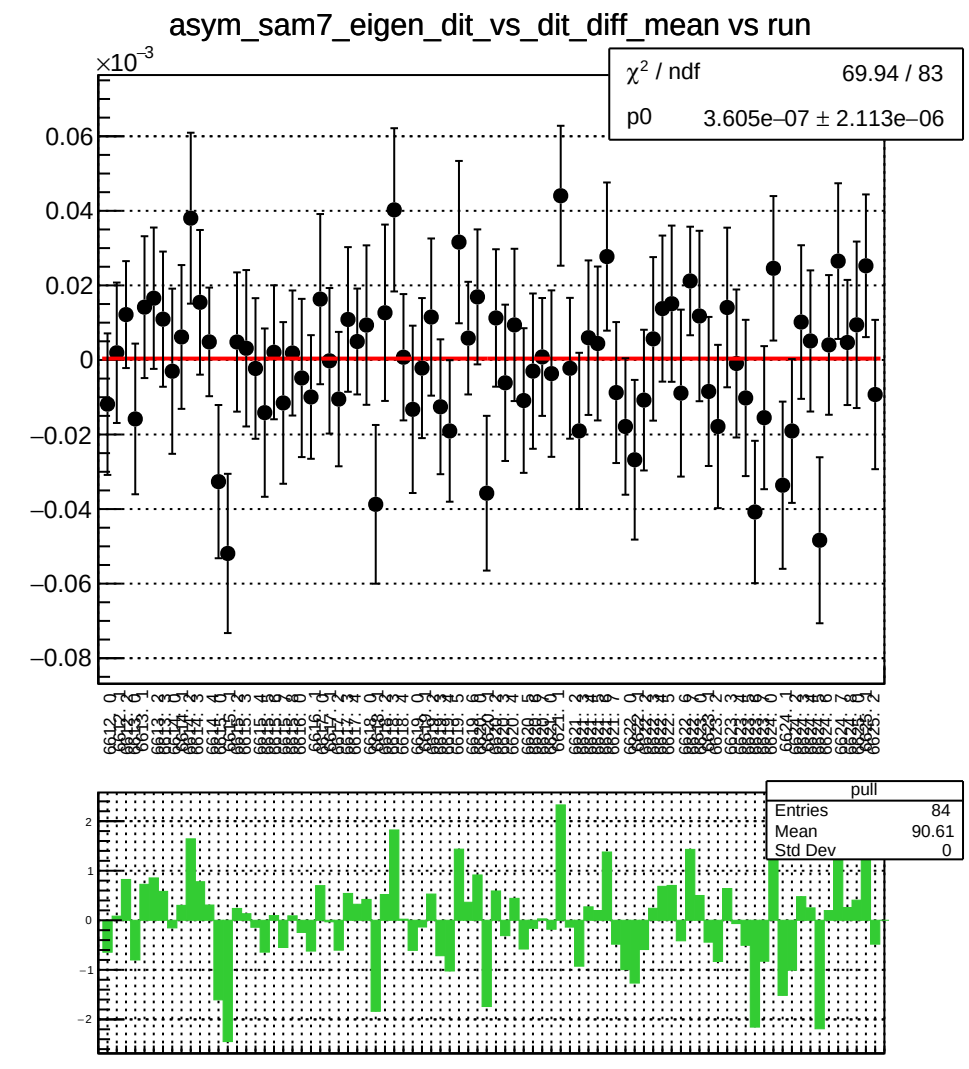

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 72.8 / 83
p0 −0.006284 ± 0.02943
pull
Entries 84
Mean −18.08
Std Dev 74.87

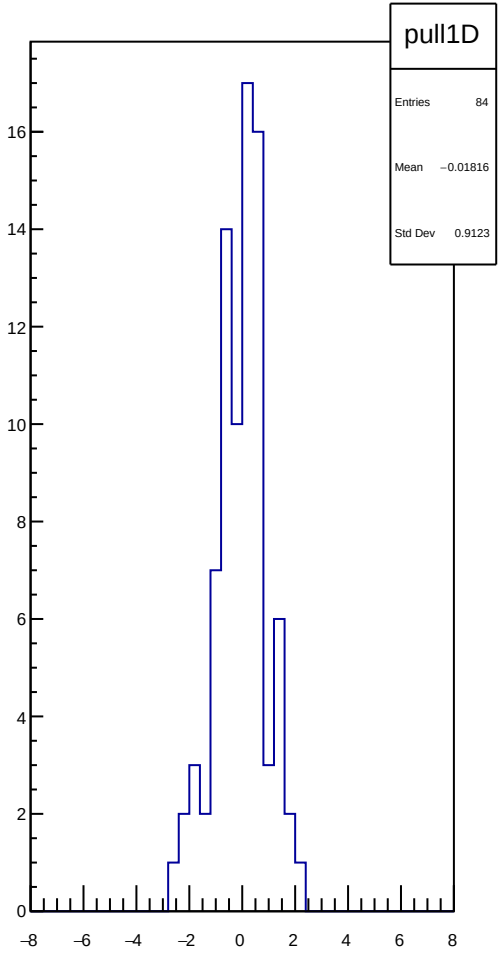

pull1D
Entries 84
Mean −0.002248
Std Dev 0.931

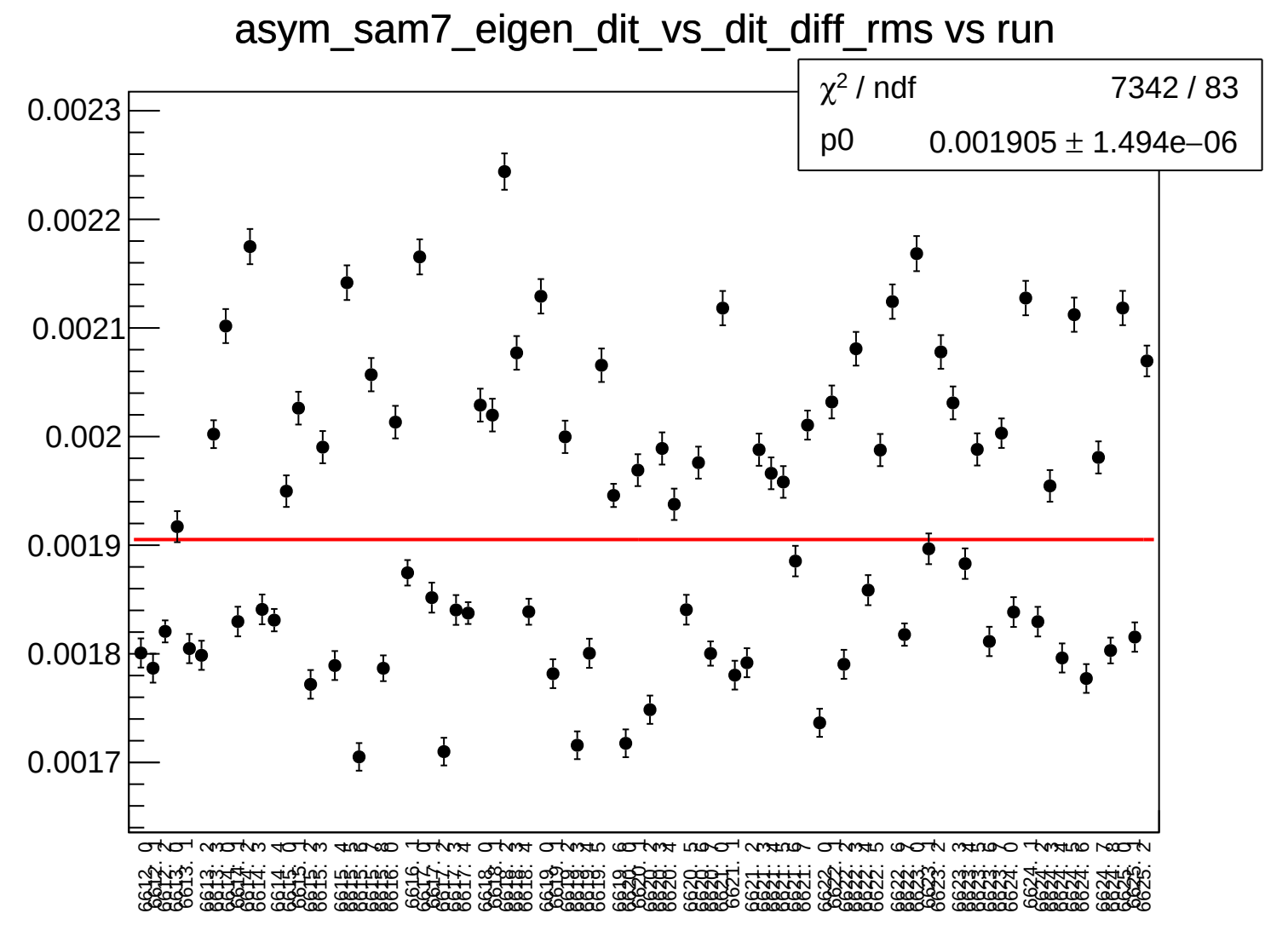

asym_sam7_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.511e+04 / 83
p0 26.46 ± 0.02081
45
40
35
30
25

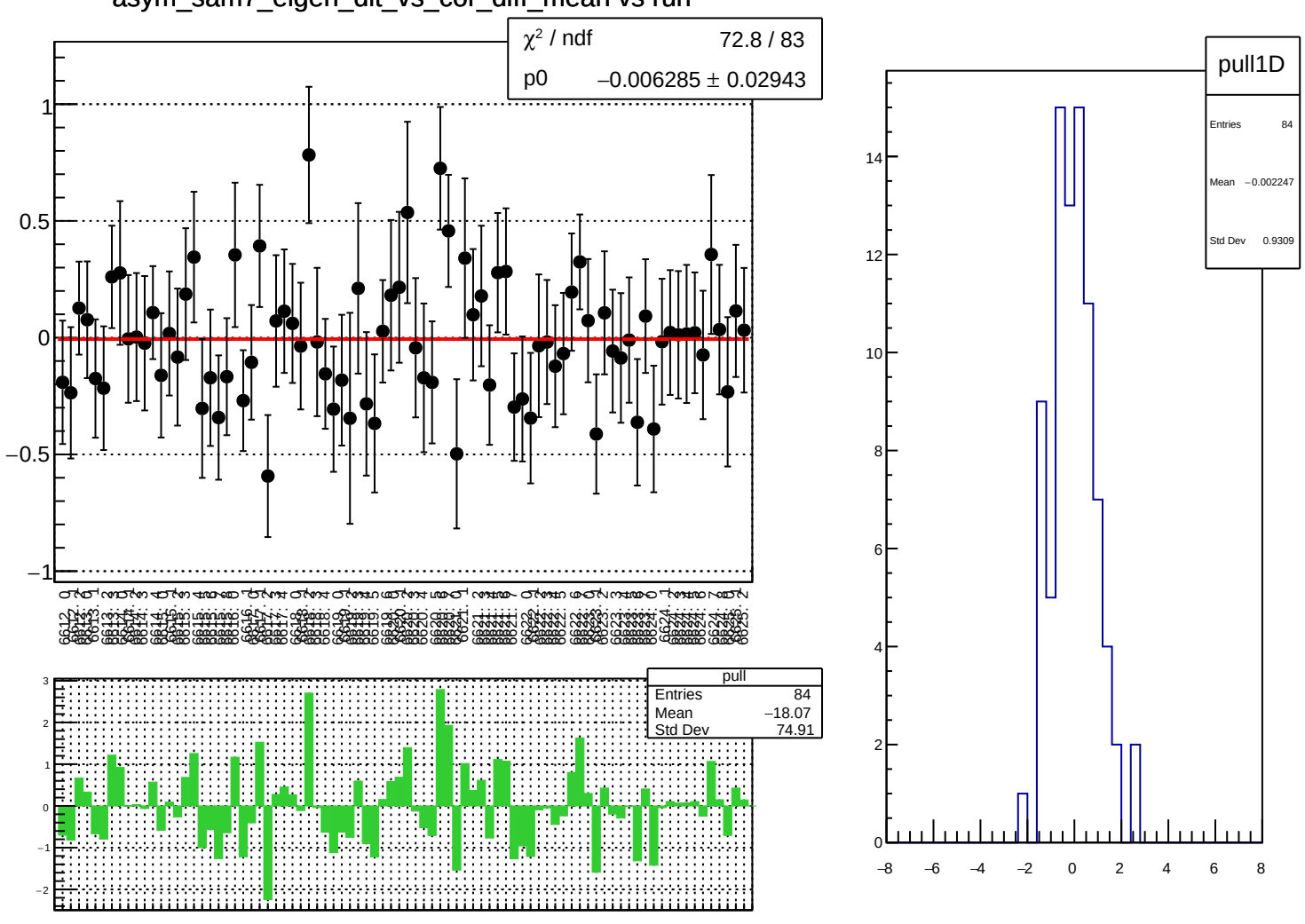

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.8 / 83
p0 −0.006284 ± 0.02943
pull
Entries 84
Mean −18.08
Std Dev 74.87
pull1D
Entries 84
Mean −0.002248
Std Dev 0.931

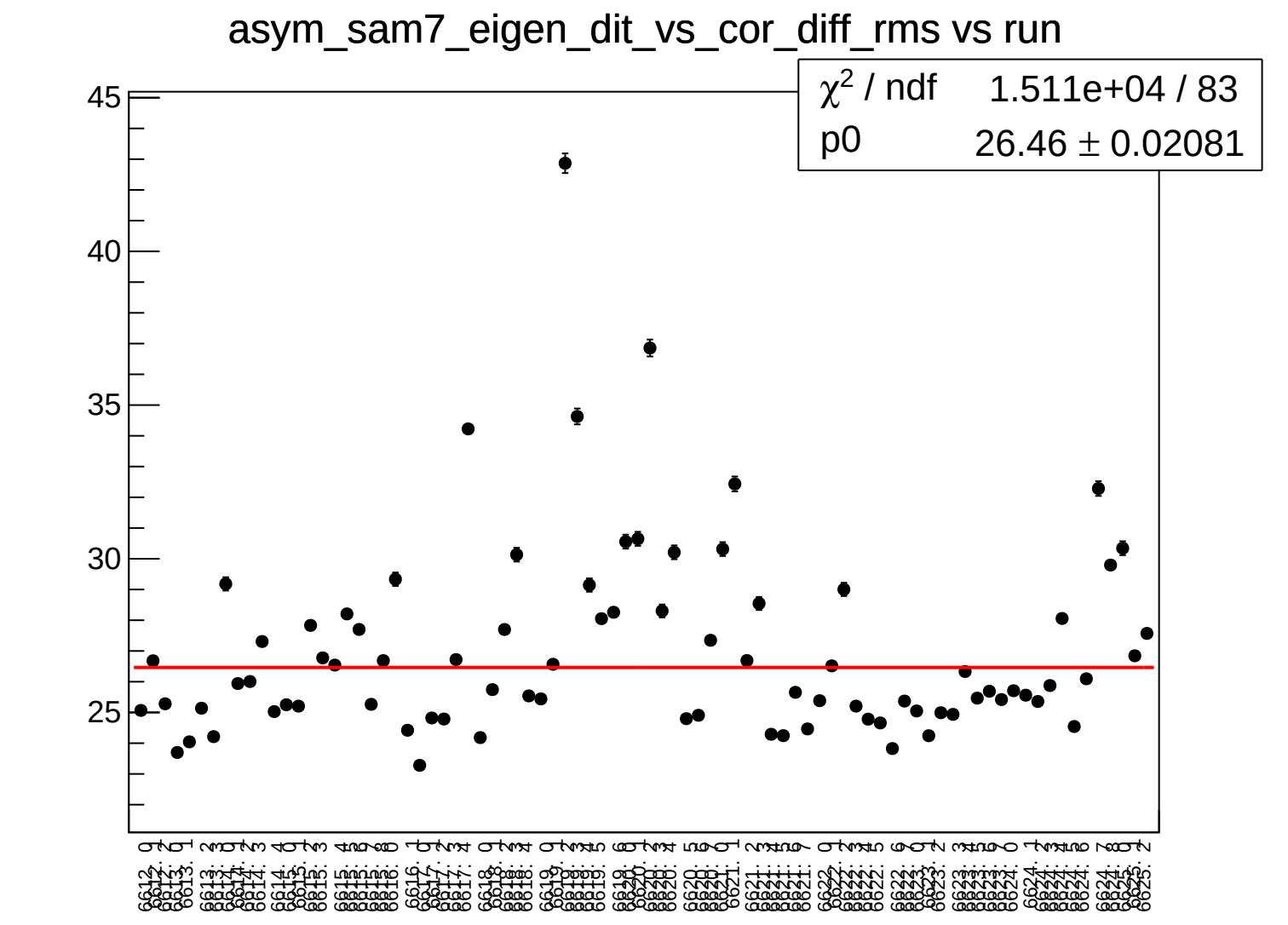

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.511e+04 / 83
p0 26.46 ± 0.02081
45
40
35
30
25

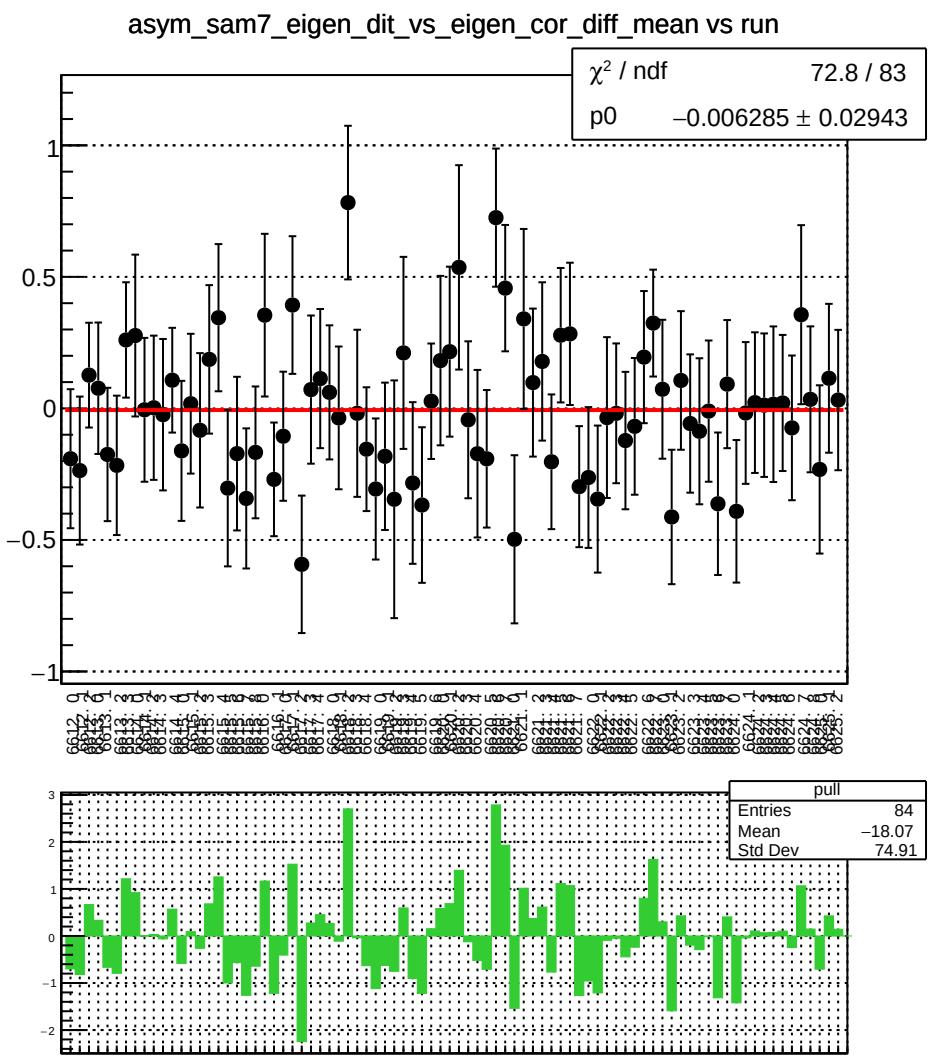

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.94 / 83
p0 3.605e−07 ± 2.113e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 84
Mean 90.61
Std Dev 0
2
1
0
−1
−2

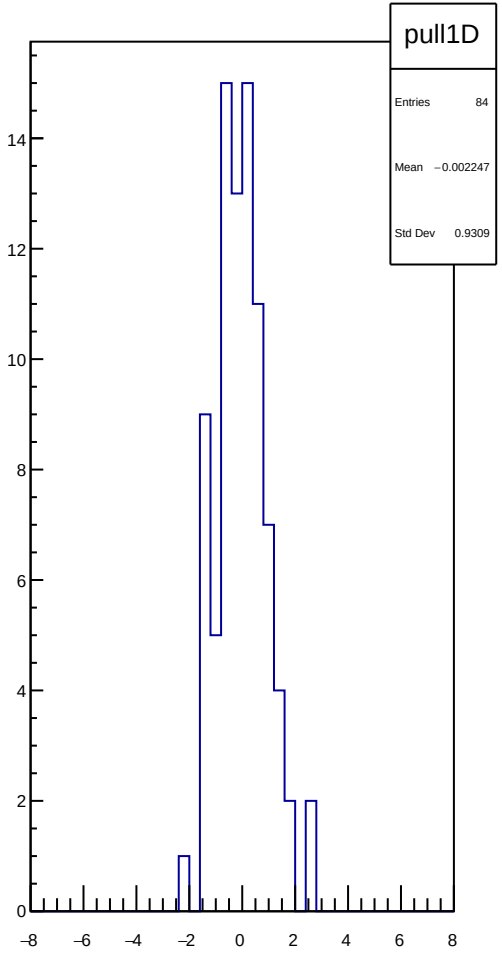

pull1D
Entries 84
Mean −0.01816
Std Dev 0.9123
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

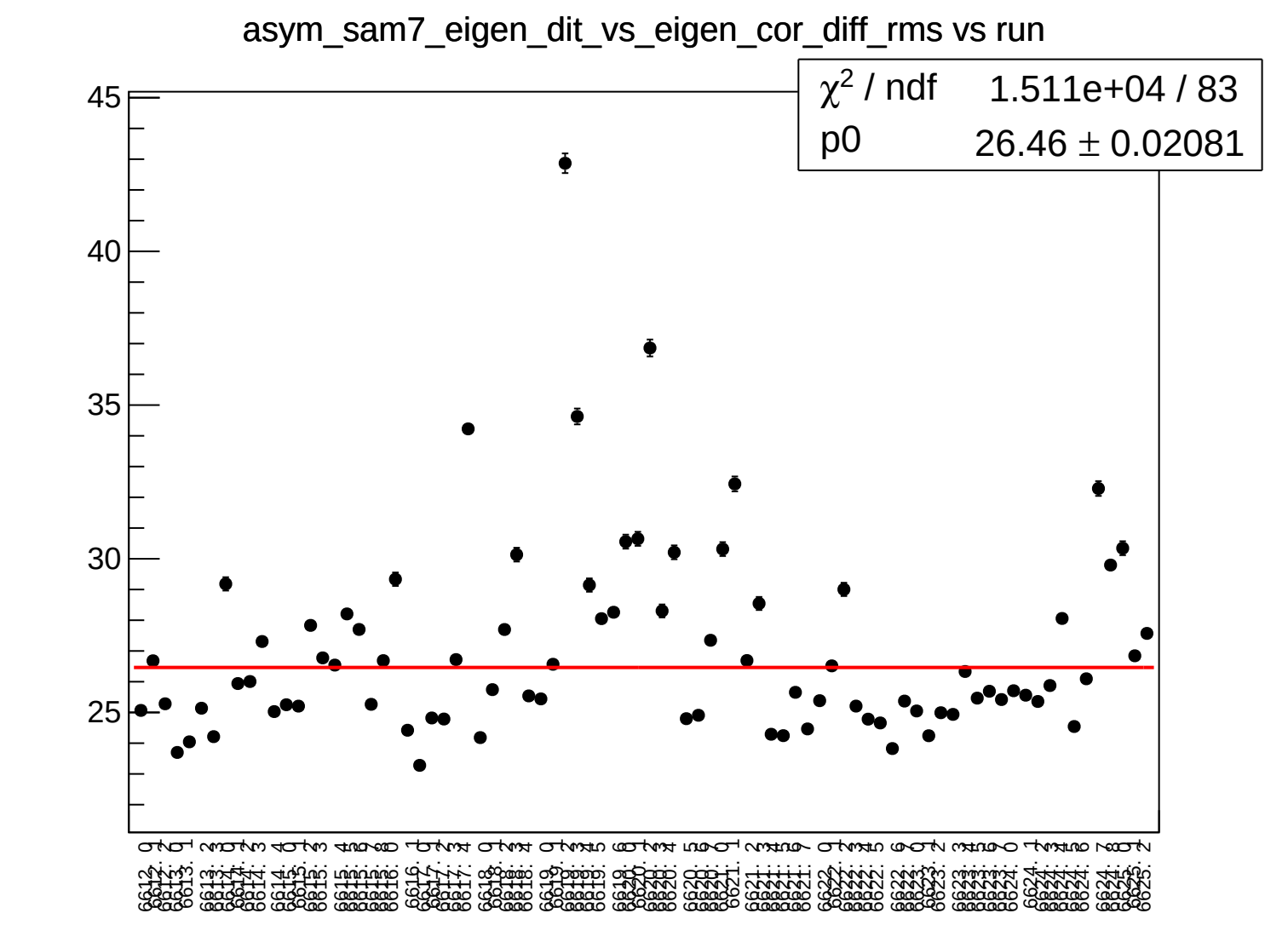

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7342 / 83
p0 0.001905 ± 1.494e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

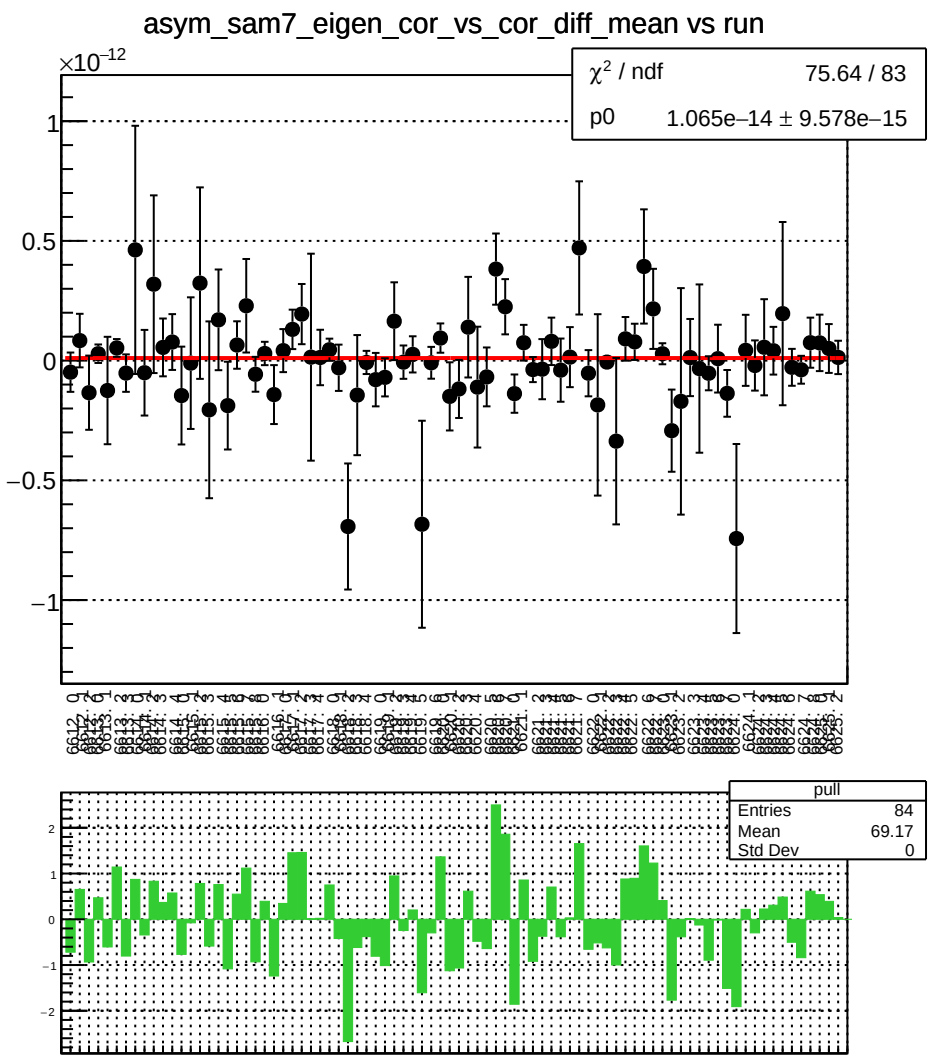

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.8 / 83
p0 −0.006285 ± 0.02943
pull
Entries 84
Mean −18.07
Std Dev 74.91
pull1D
Entries 84
Mean −0.002247
Std Dev 0.9309

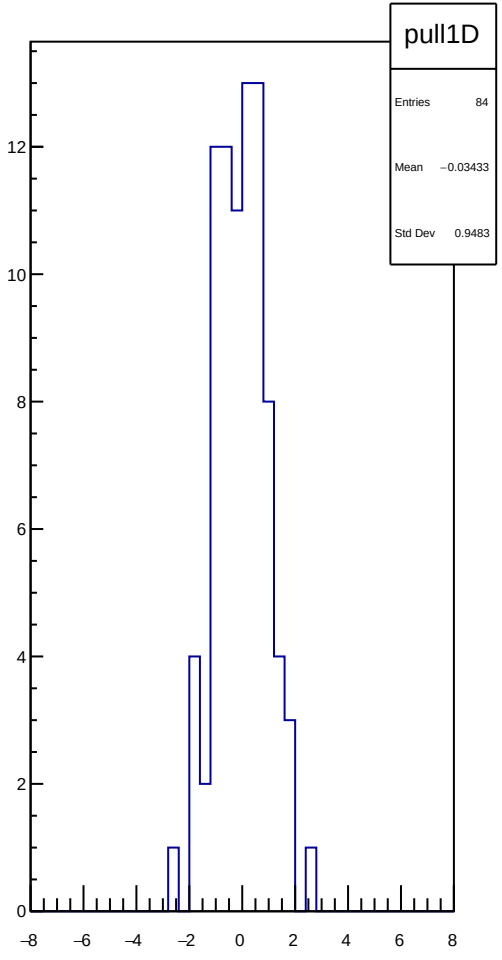

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.511e+04 / 83
p0 26.46 ± 0.02081
45
40
35
30
25

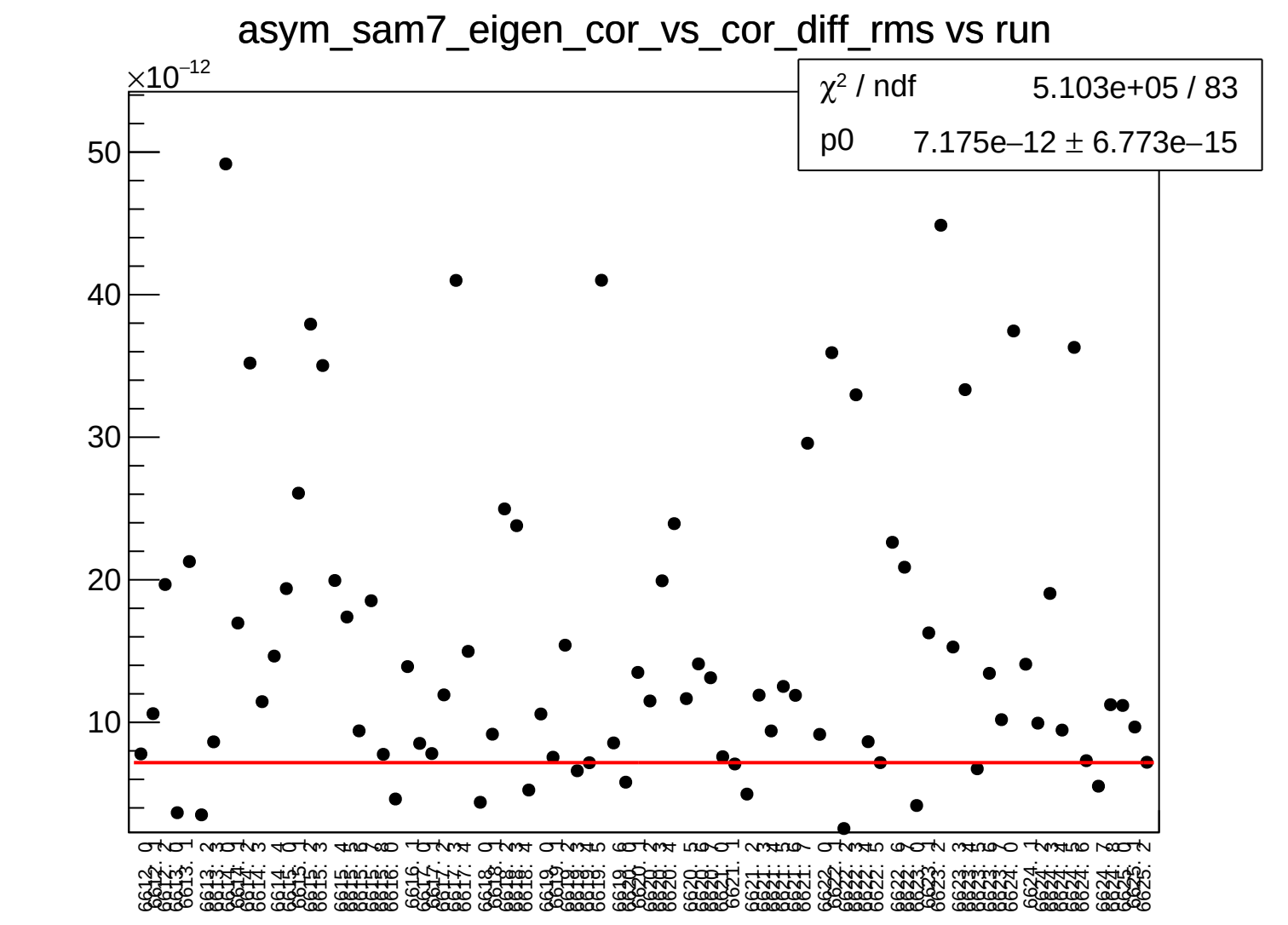

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.8 / 83
p0 −0.006285 ± 0.02943
pull
Entries 84
Mean −18.07
Std Dev 74.91

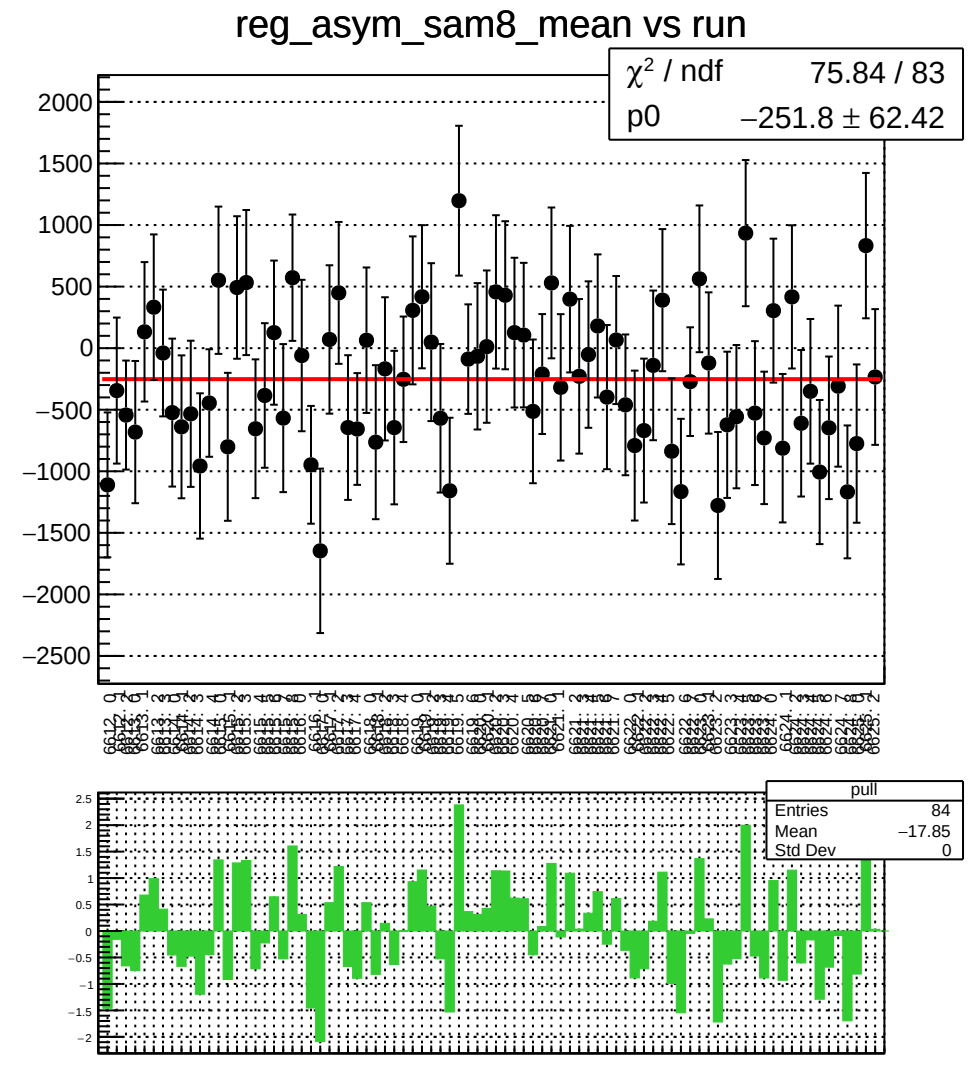

pull1D
Entries 84
Mean −0.002247
Std Dev 0.9309

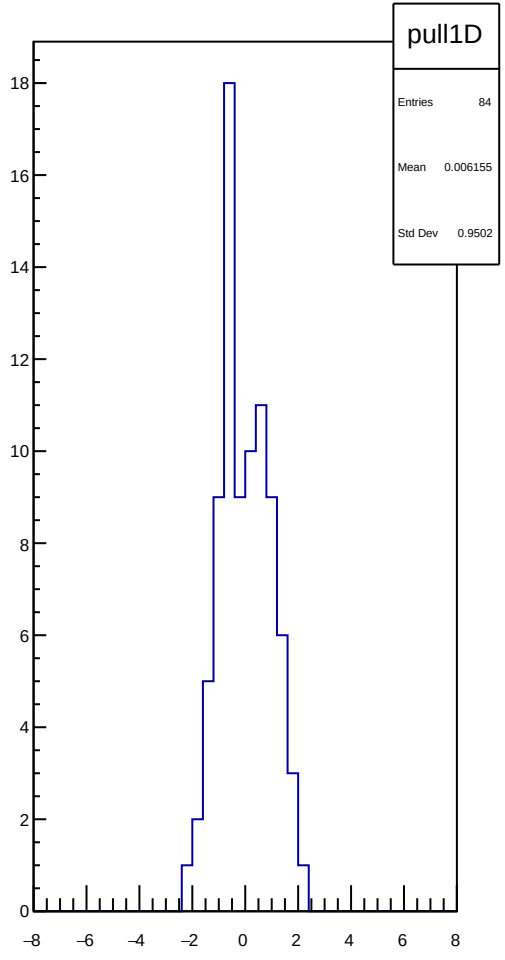

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.511e+04 / 83
p0 26.46 ± 0.02081
45
40
35
30
25

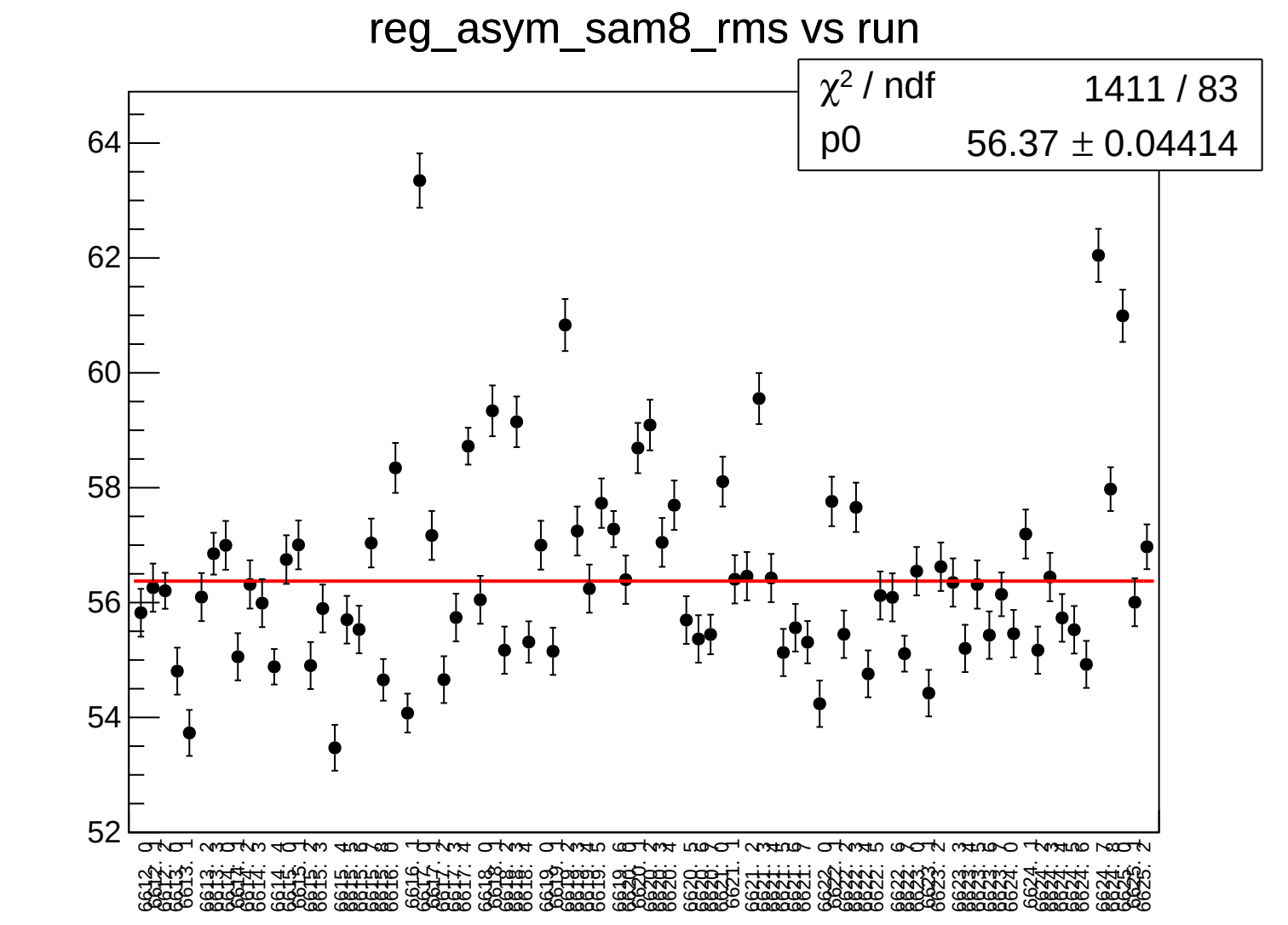

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.64 / 83
p0 1.065e−14 ± 9.578e−15
pull
Entries 84
Mean 69.17
Std Dev 0

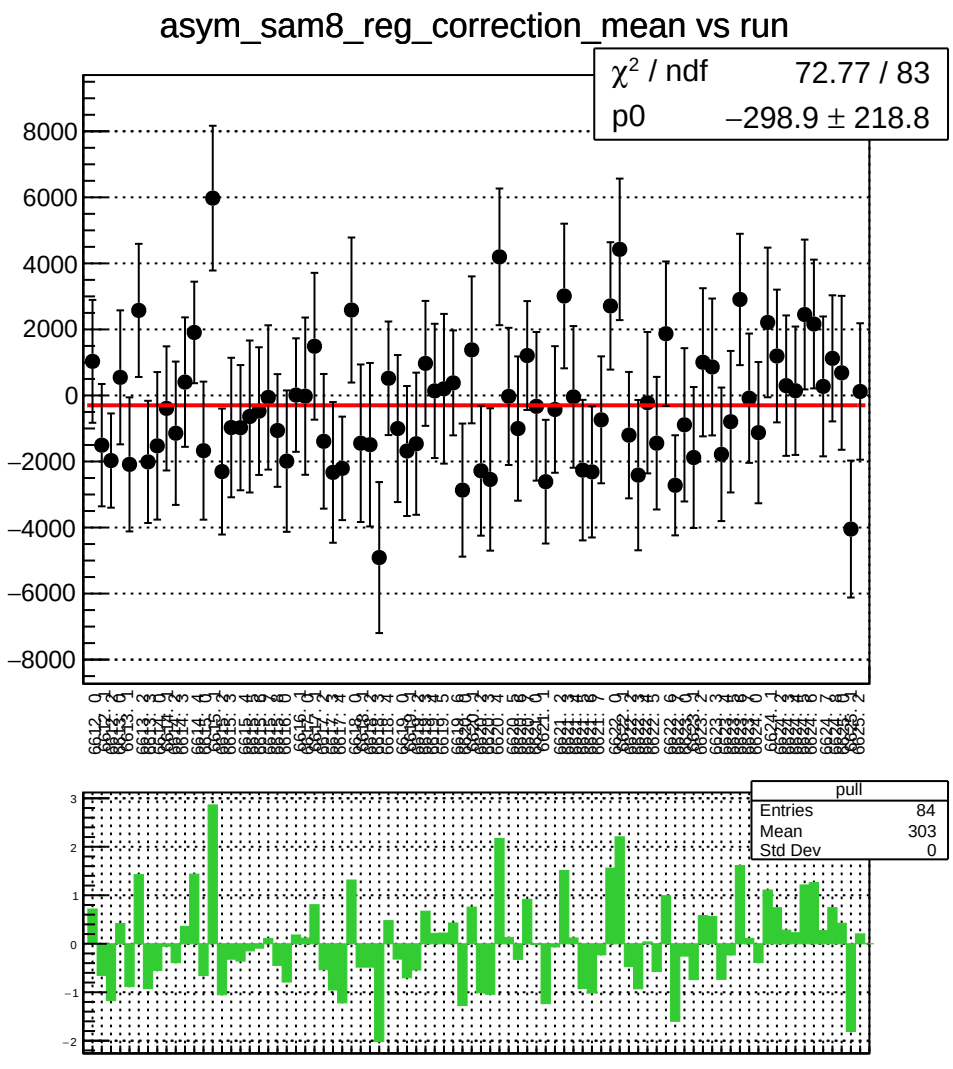

pull1D
Entries 84
Mean −0.03433
Std Dev 0.9483

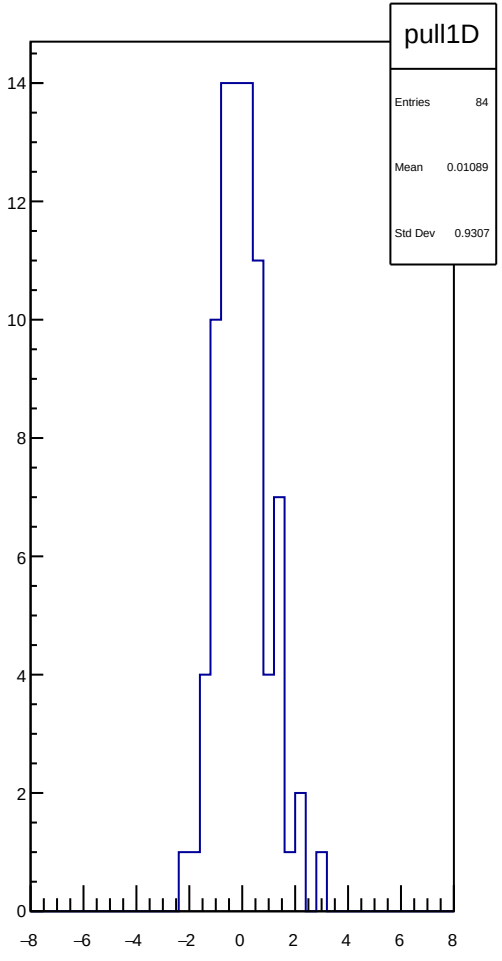

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.103e+05 / 83
p0 7.175e−12 ± 6.773e−15
50
40
30
20
10

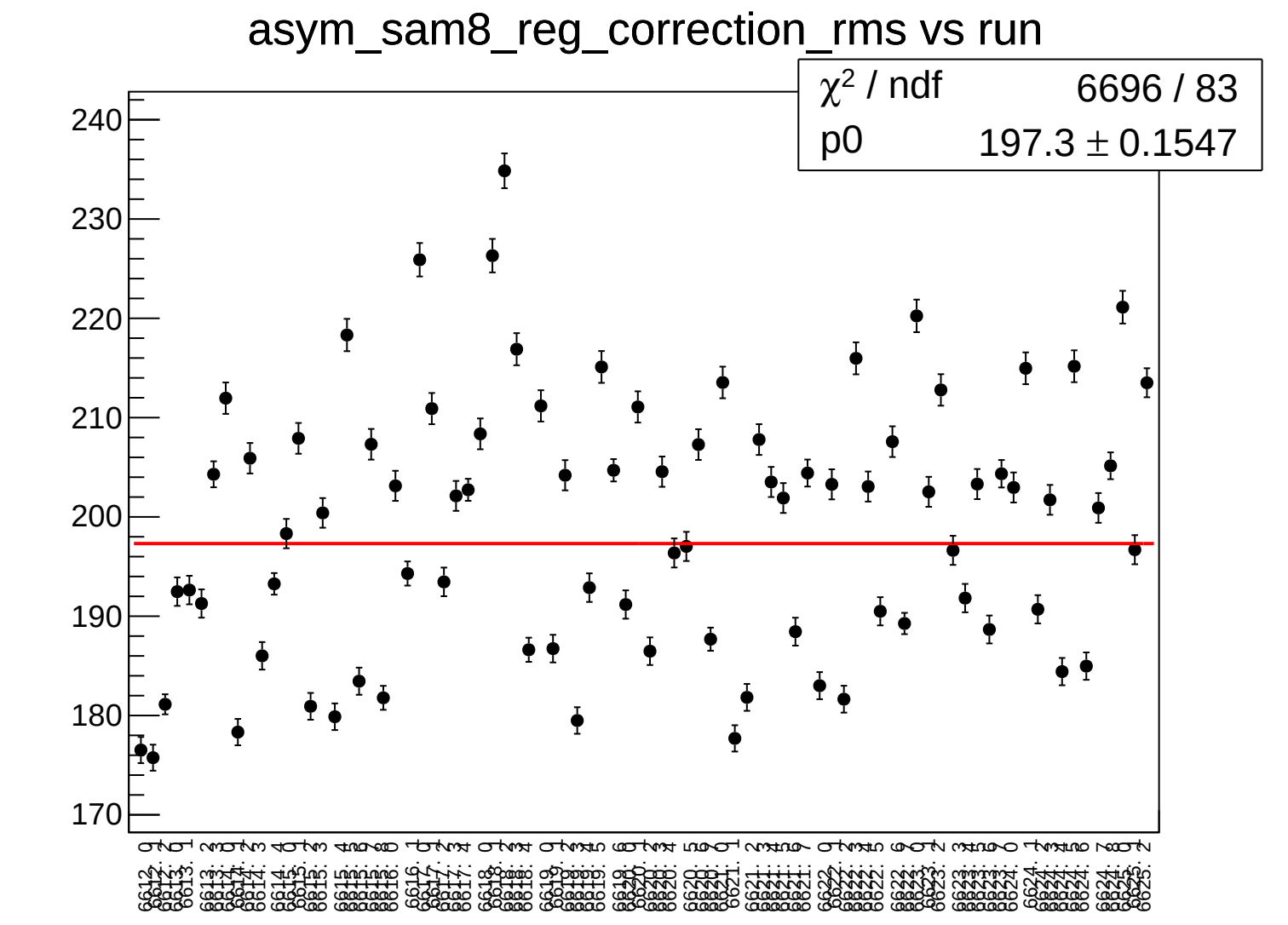

reg_asym_sam8_mean vs run
χ² / ndf 75.84 / 83
p0 −251.8 ± 62.42
pull
Entries 84
Mean −17.85
Std Dev 0

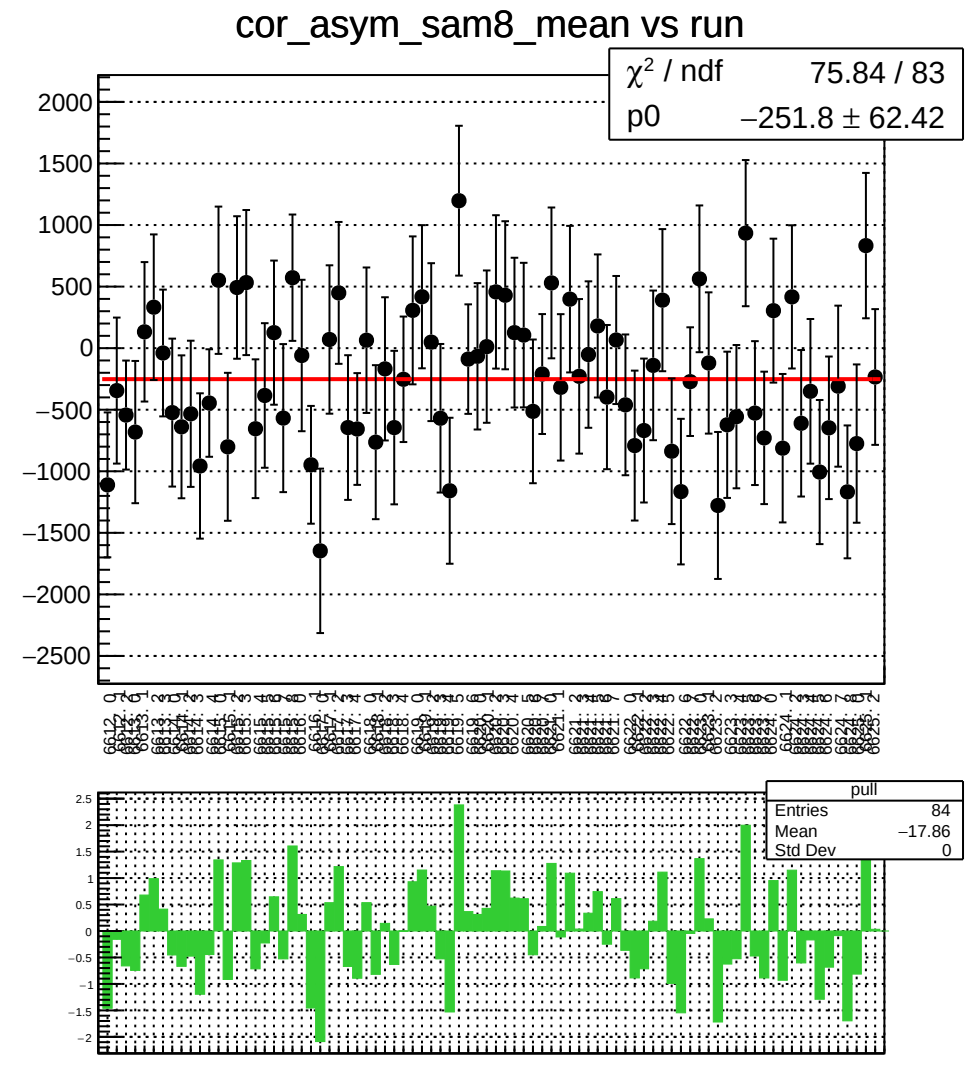

pull1D
Entries 84
Mean 0.006155
Std Dev 0.9502

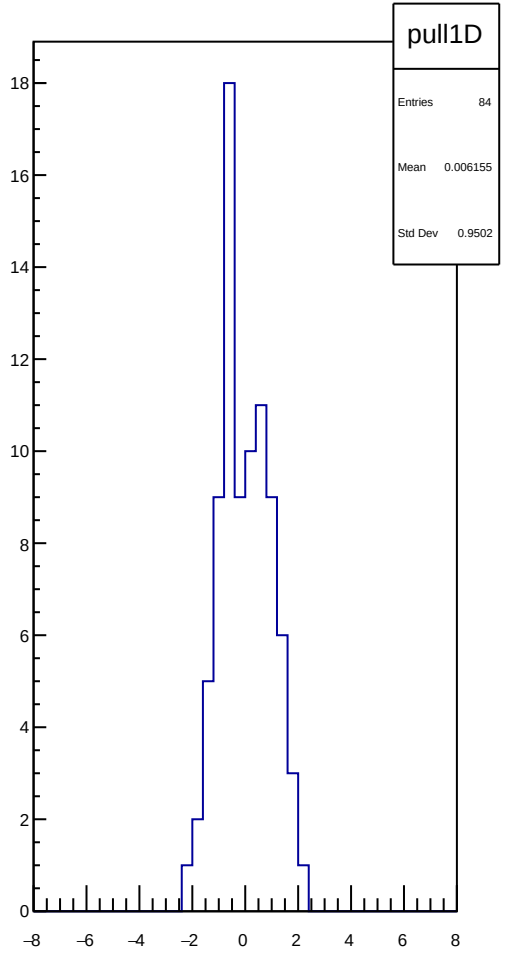

reg_asym_sam8_rms vs run
χ² / ndf 1411 / 83
p0 56.37 ± 0.04414
64
62
60
58
56
54
52

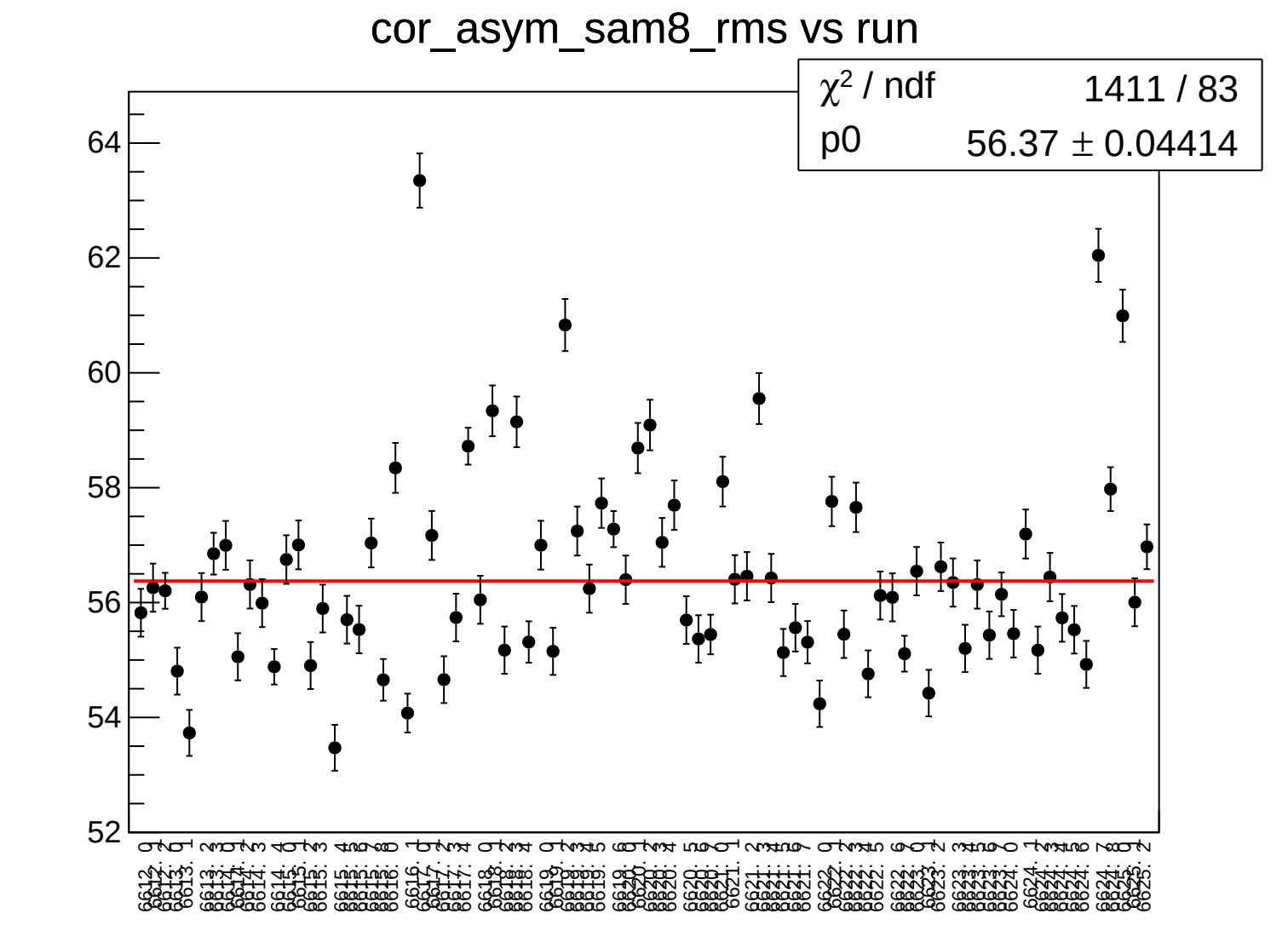

asym_sam8_reg_correction_mean vs run
χ² / ndf 72.77 / 83
p0 −298.9 ± 218.8
pull
Entries 84
Mean 303
Std Dev 0

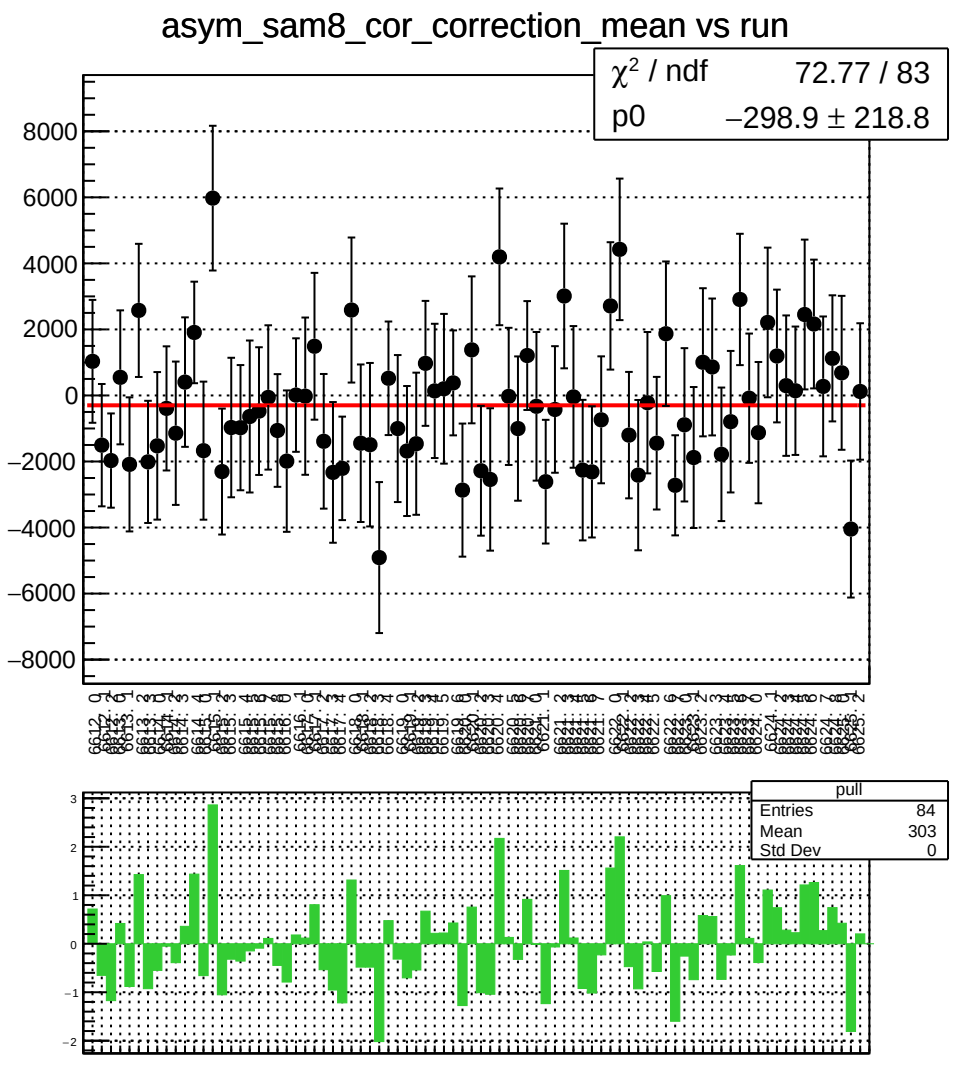

pull1D
Entries 84
Mean 0.01089
Std Dev 0.9307

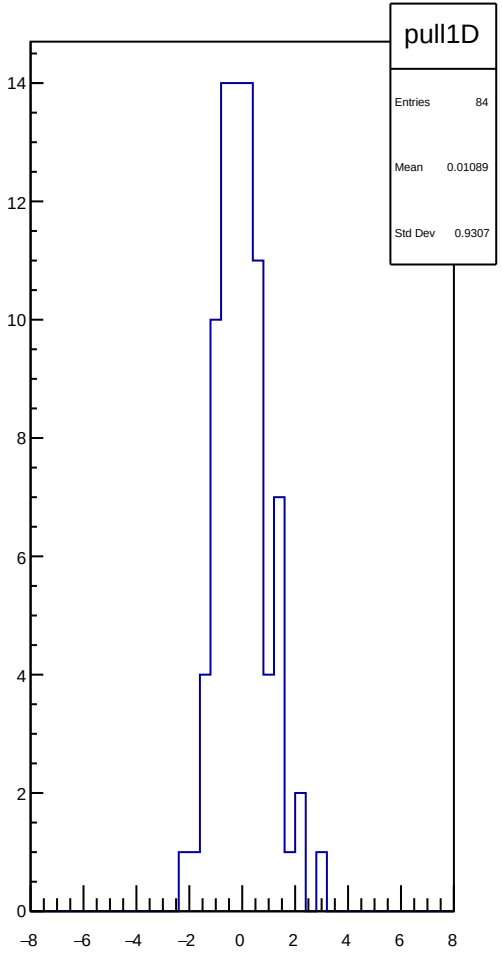

asym_sam8_reg_correction_rms vs run
χ² / ndf 6696 / 83
p0 197.3 ± 0.1547
240
230
220
210
200
190
180
170

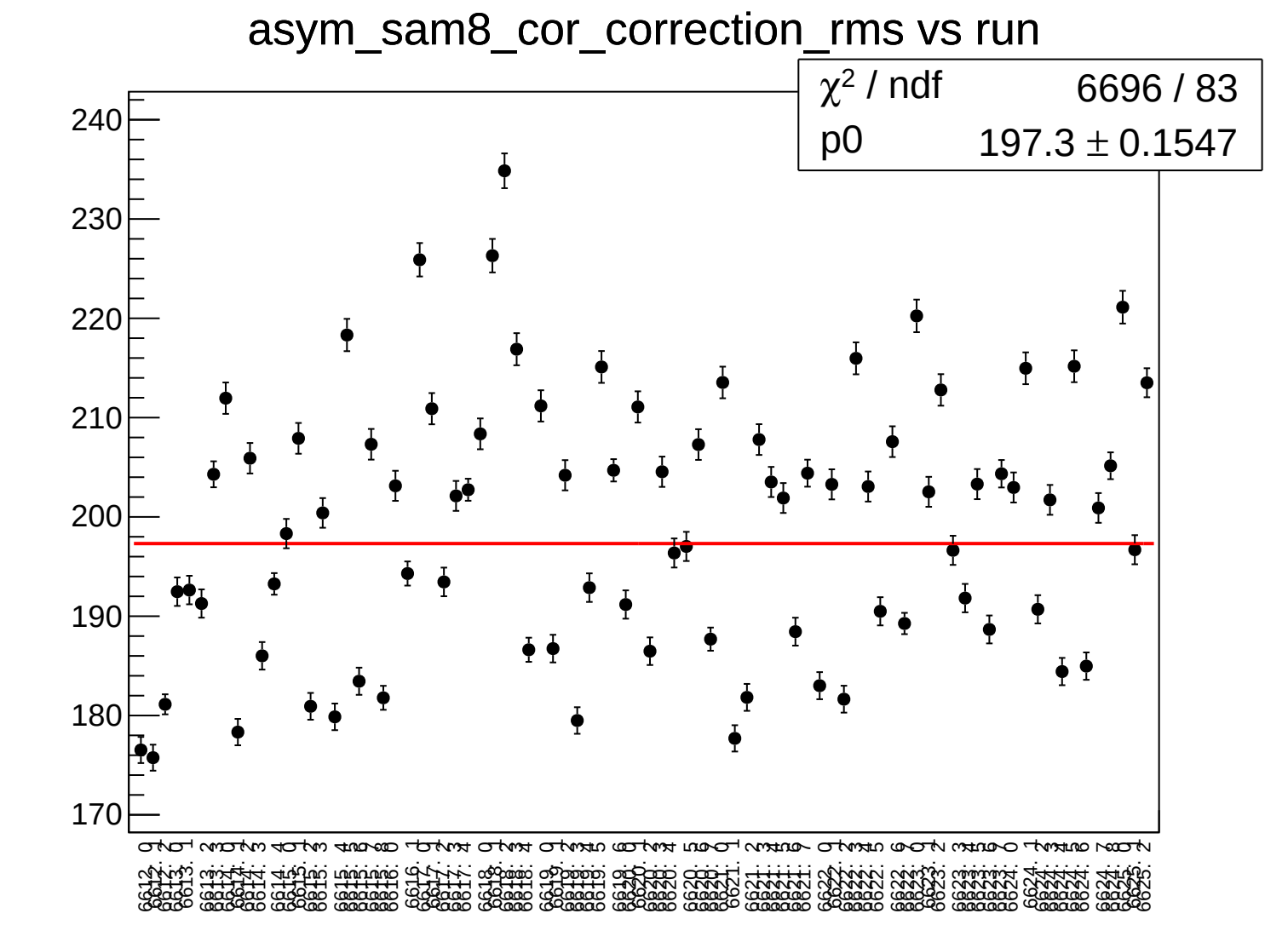

cor_asym_sam8_mean vs run
χ² / ndf 75.84 / 83
p0 −251.8 ± 62.42
pull
Entries 84
Mean −17.86
Std Dev 0

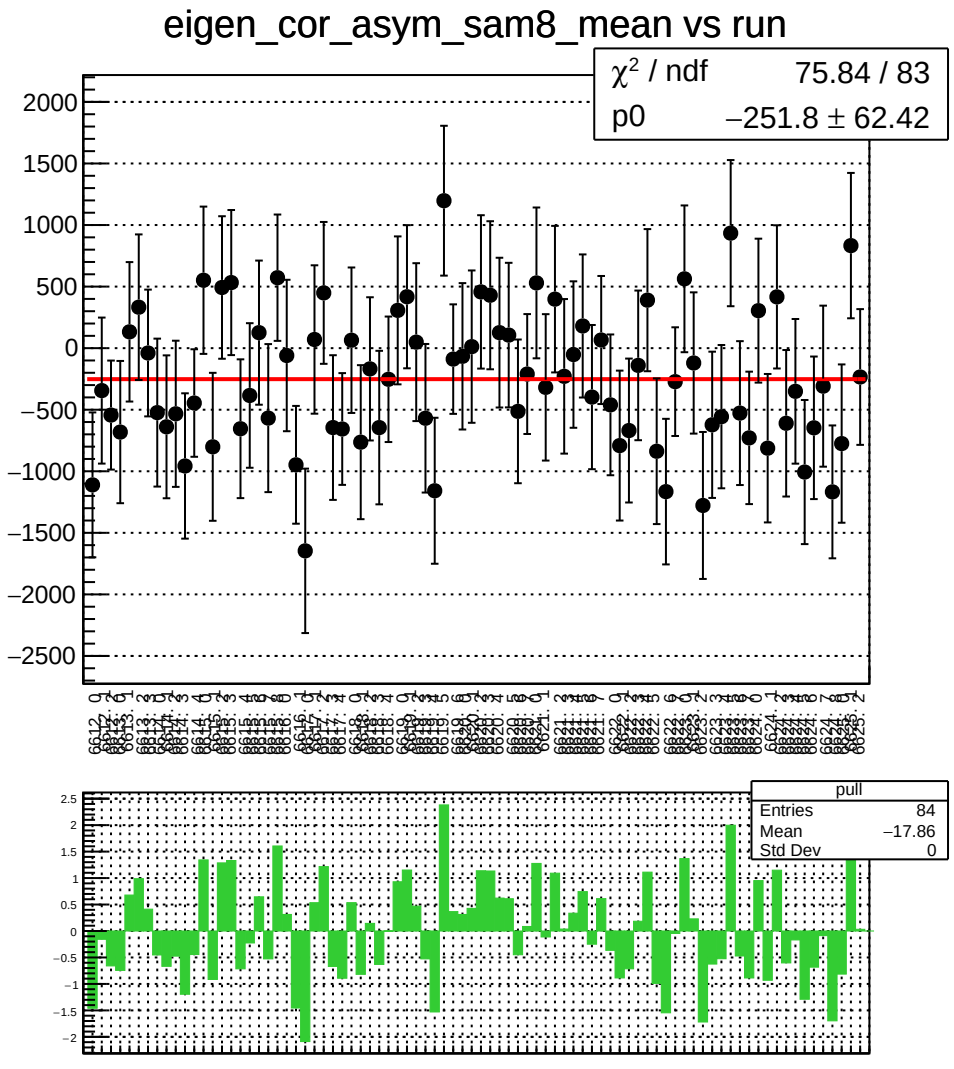

pull1D
Entries 84
Mean 0.006155
Std Dev 0.9502

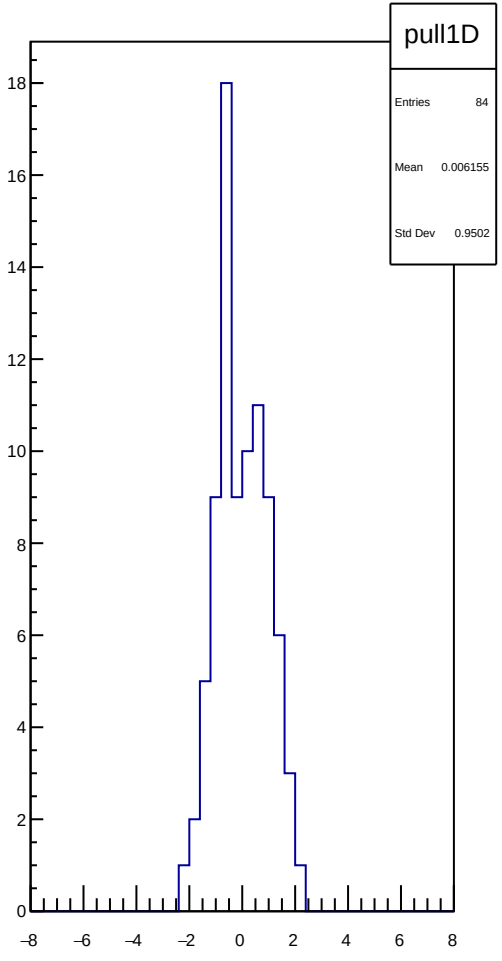

cor_asym_sam8_rms vs run
χ^2 / ndf 1411 / 83
p0 56.37 ± 0.04414
64
62
60
58
56
54
52

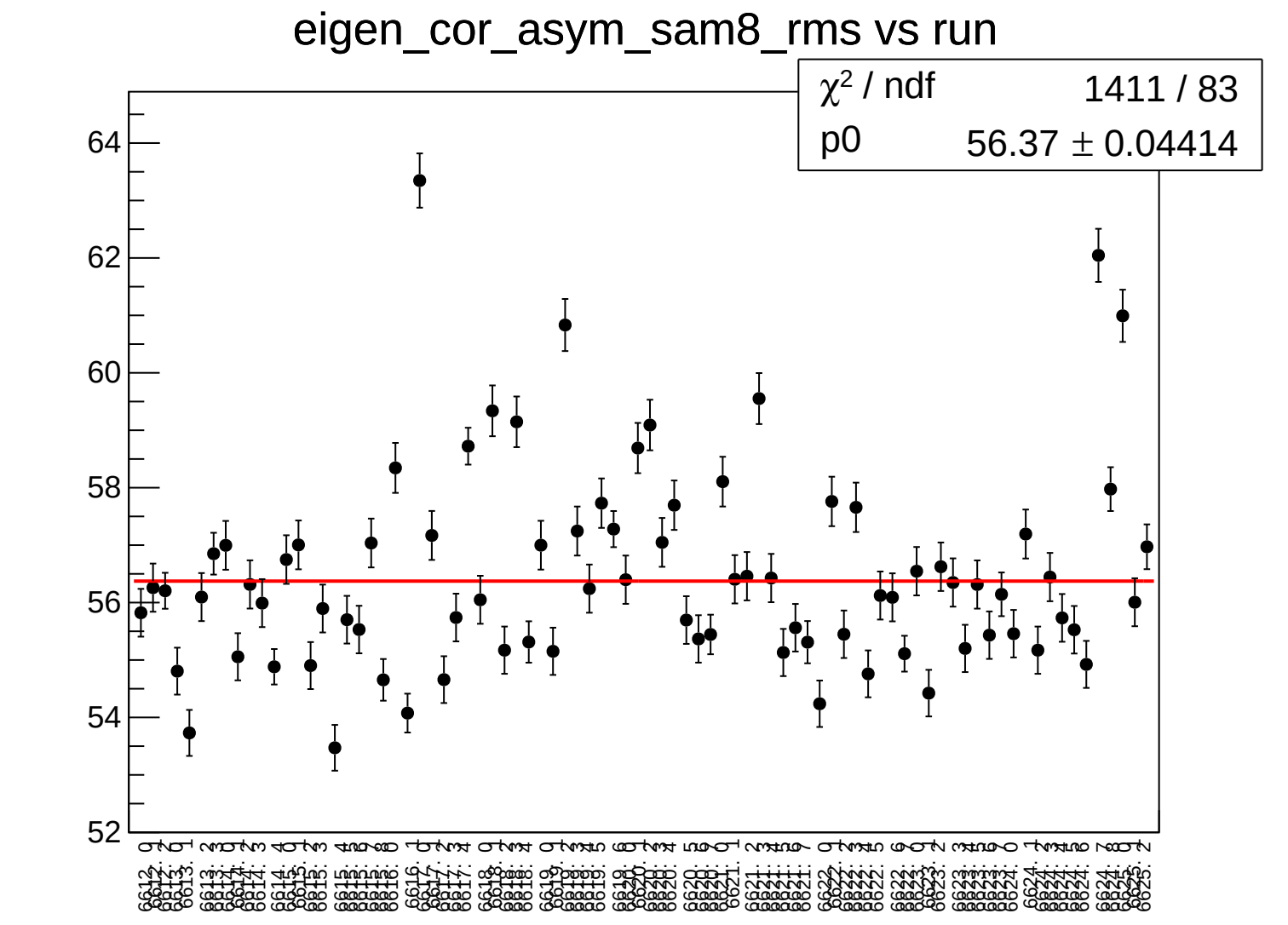

asym_sam8_cor_correction_mean vs run
χ² / ndf 72.77 / 83
p0 −298.9 ± 218.8
pull
Entries 84
Mean 303
Std Dev 0

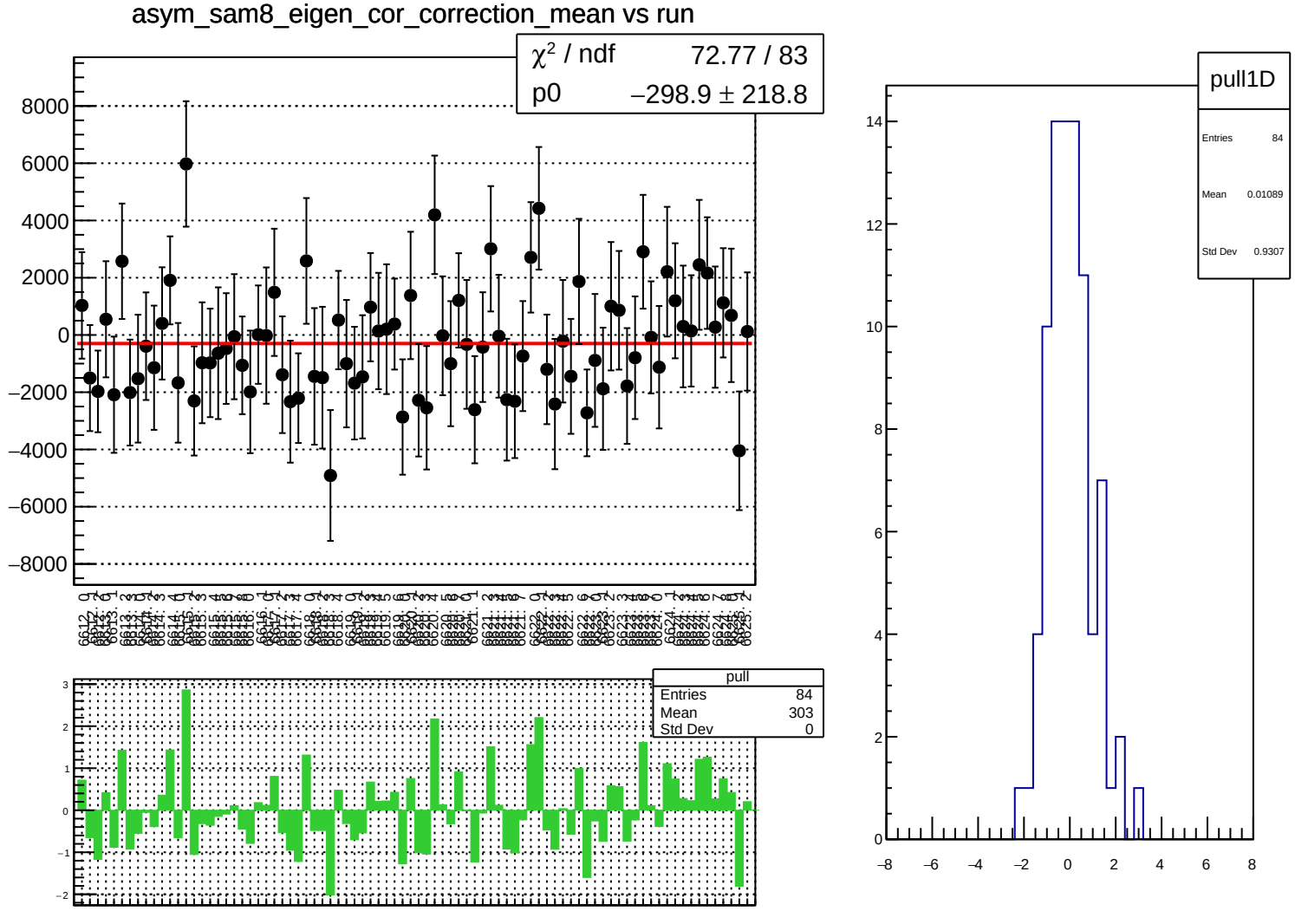

pull1D
Entries 84
Mean 0.01089
Std Dev 0.9307

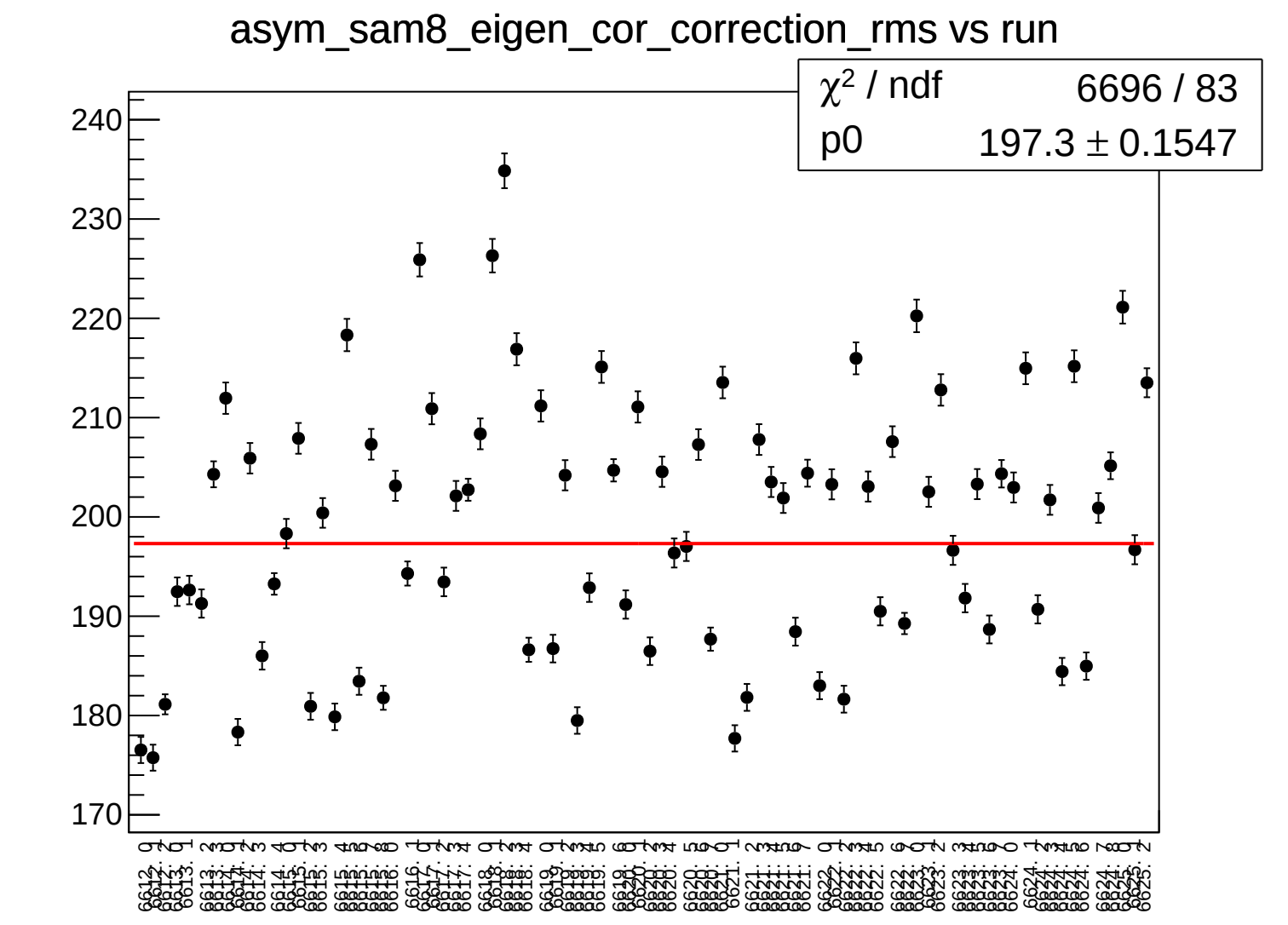

asym_sam8_cor_correction_rms vs run
χ² / ndf 6696 / 83
p0 197.3 ± 0.1547
240
230
220
210
200
190
180
170

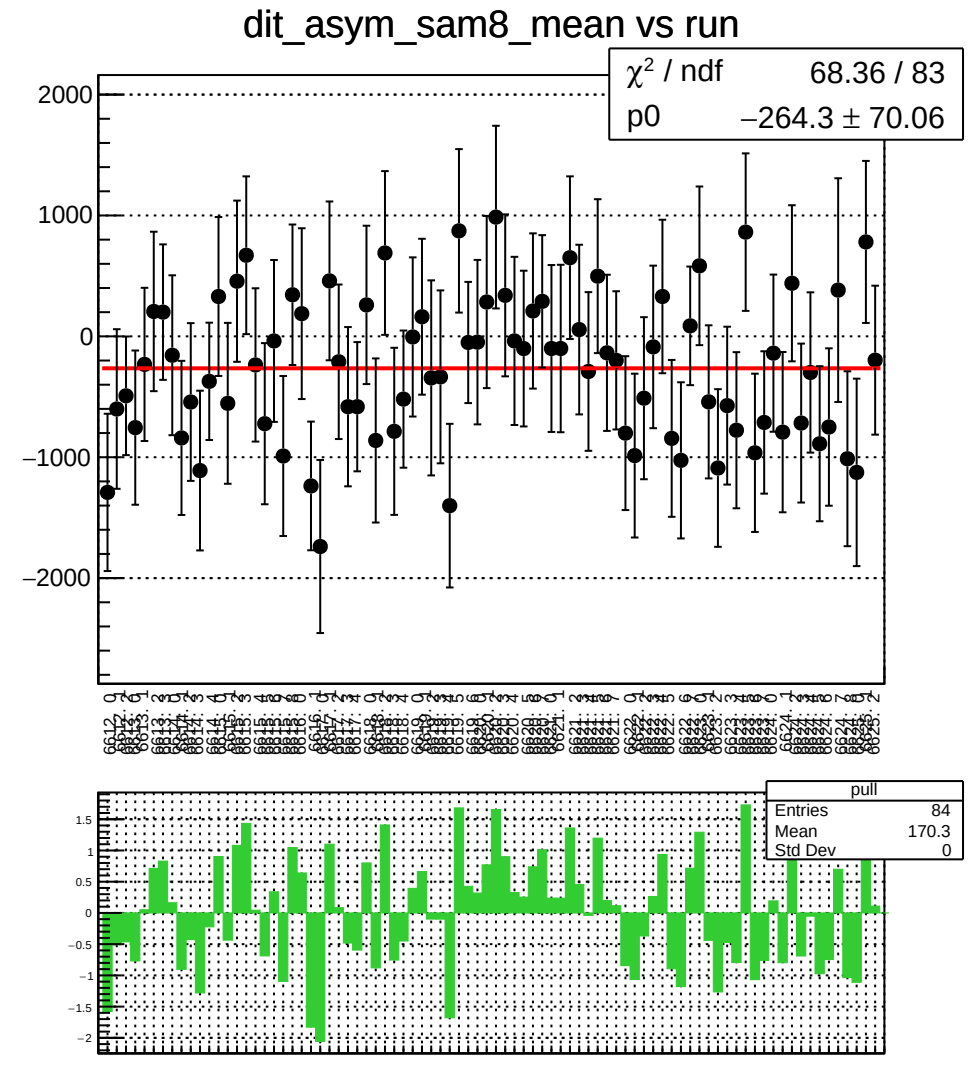

eigen_cor_asym_sam8_mean vs run
χ² / ndf 75.84 / 83
p0 −251.8 ± 62.42
pull
Entries 84
Mean −17.86
Std Dev 0

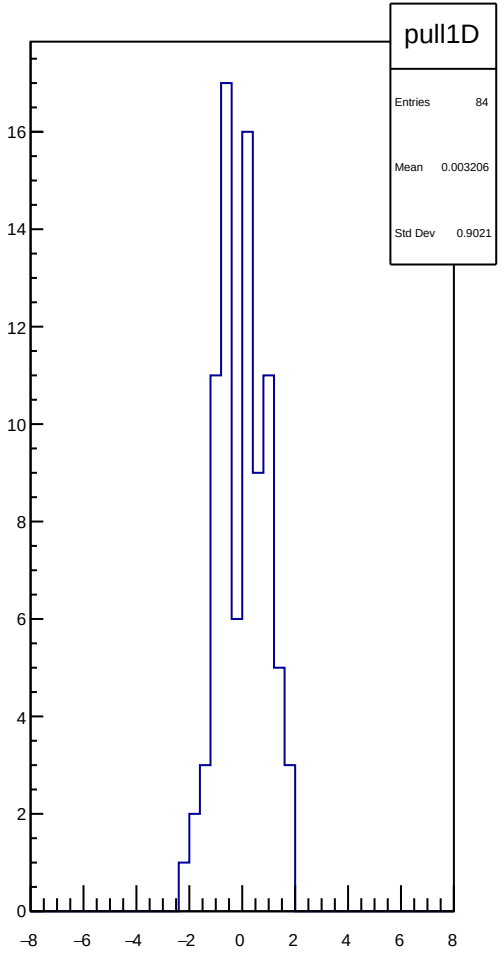

pull1D
Entries 84
Mean 0.006155
Std Dev 0.9502

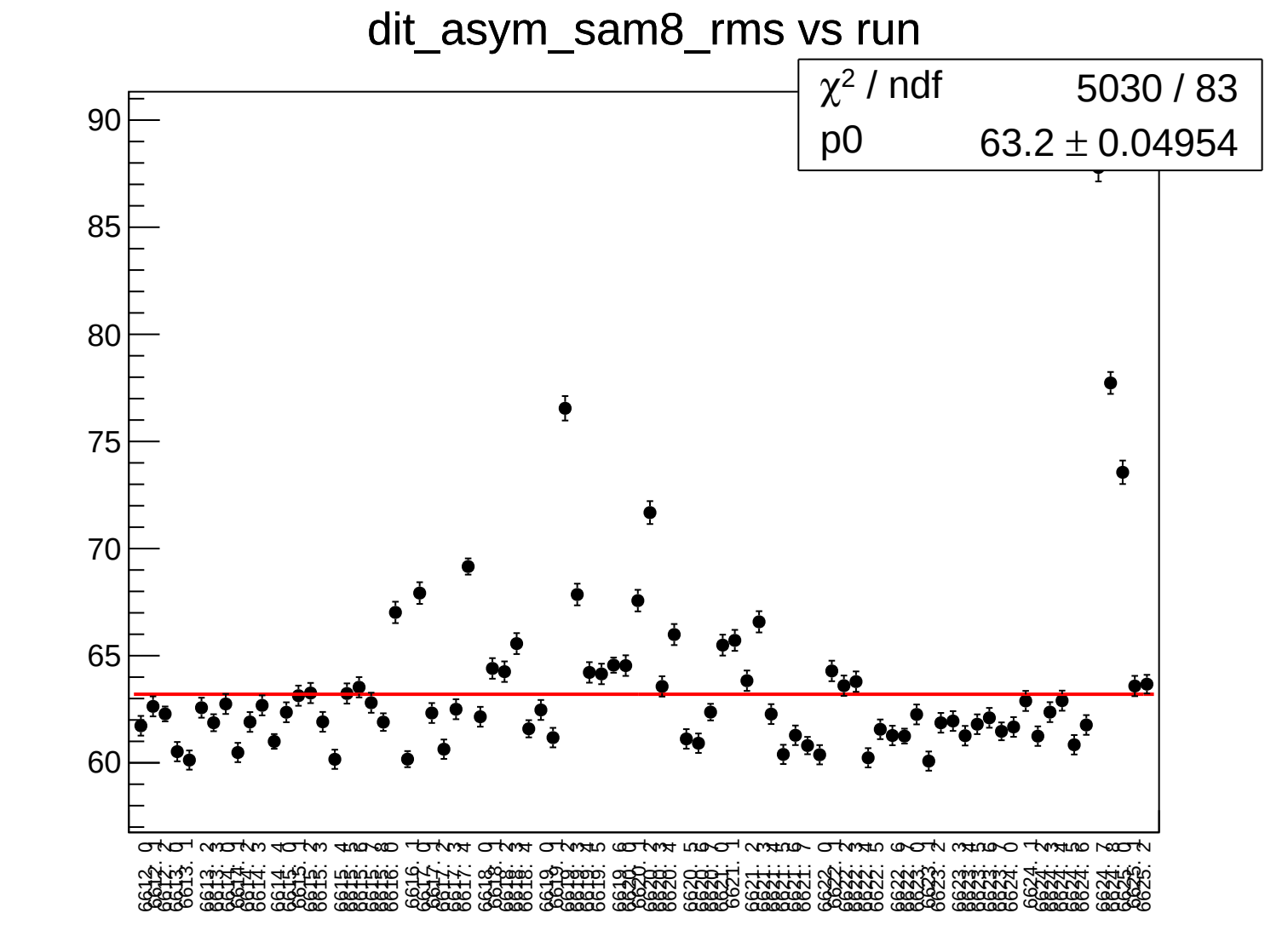

eigen_cor_asym_sam8_rms vs run
χ² / ndf 1411 / 83
p0 56.37 ± 0.04414
64
62
60
58
56
54
52

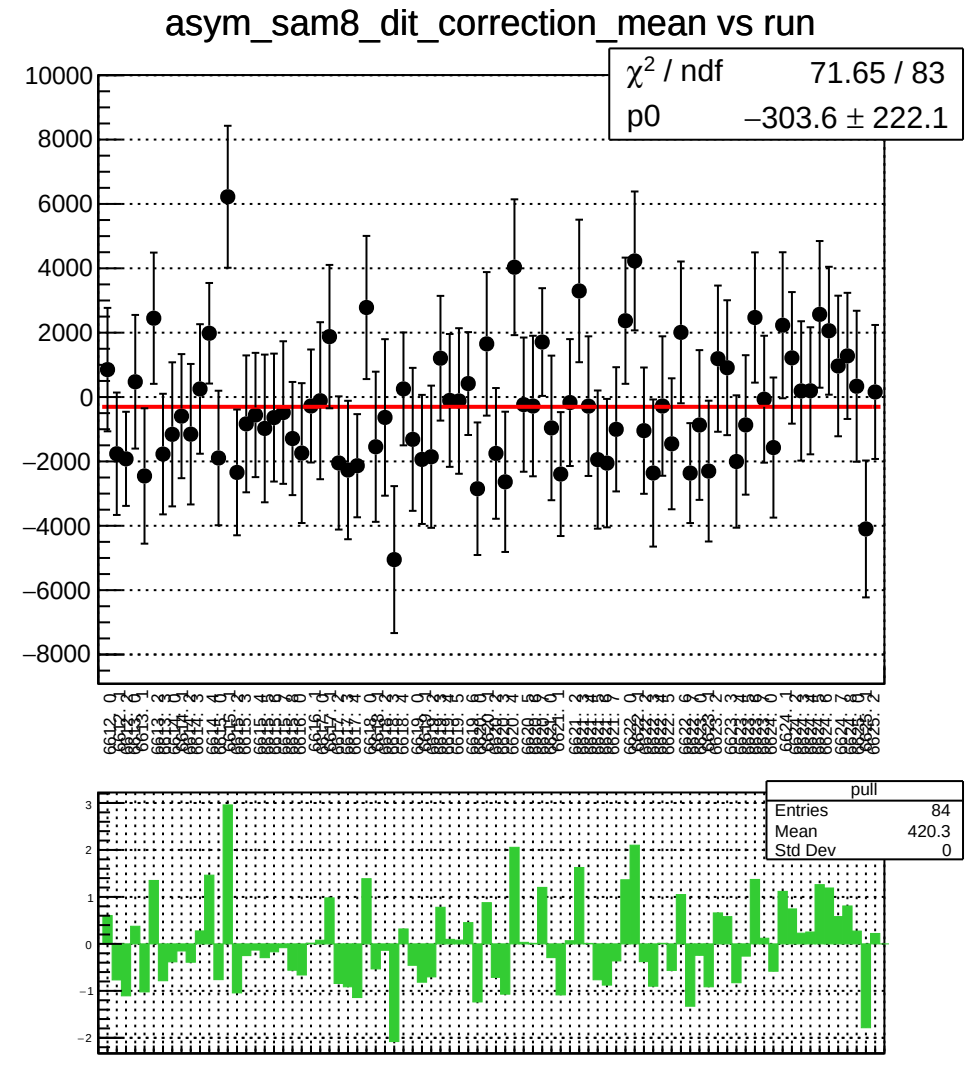

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 72.77 / 83
p0 −298.9 ± 218.8
pull
Entries 84
Mean 303
Std Dev 0
pull1D
Entries 84
Mean 0.01089
Std Dev 0.9307

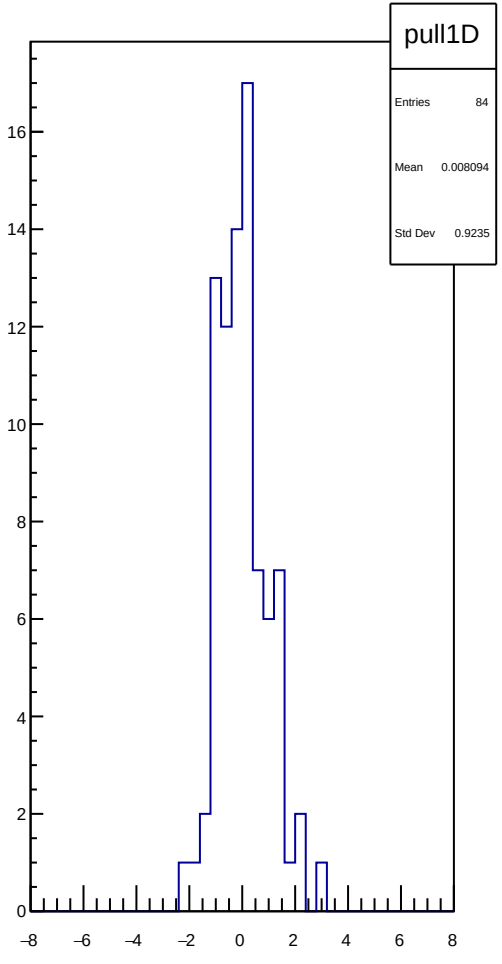

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 6696 / 83
p0 197.3 ± 0.1547
240
230
220
210
200
190
180
170

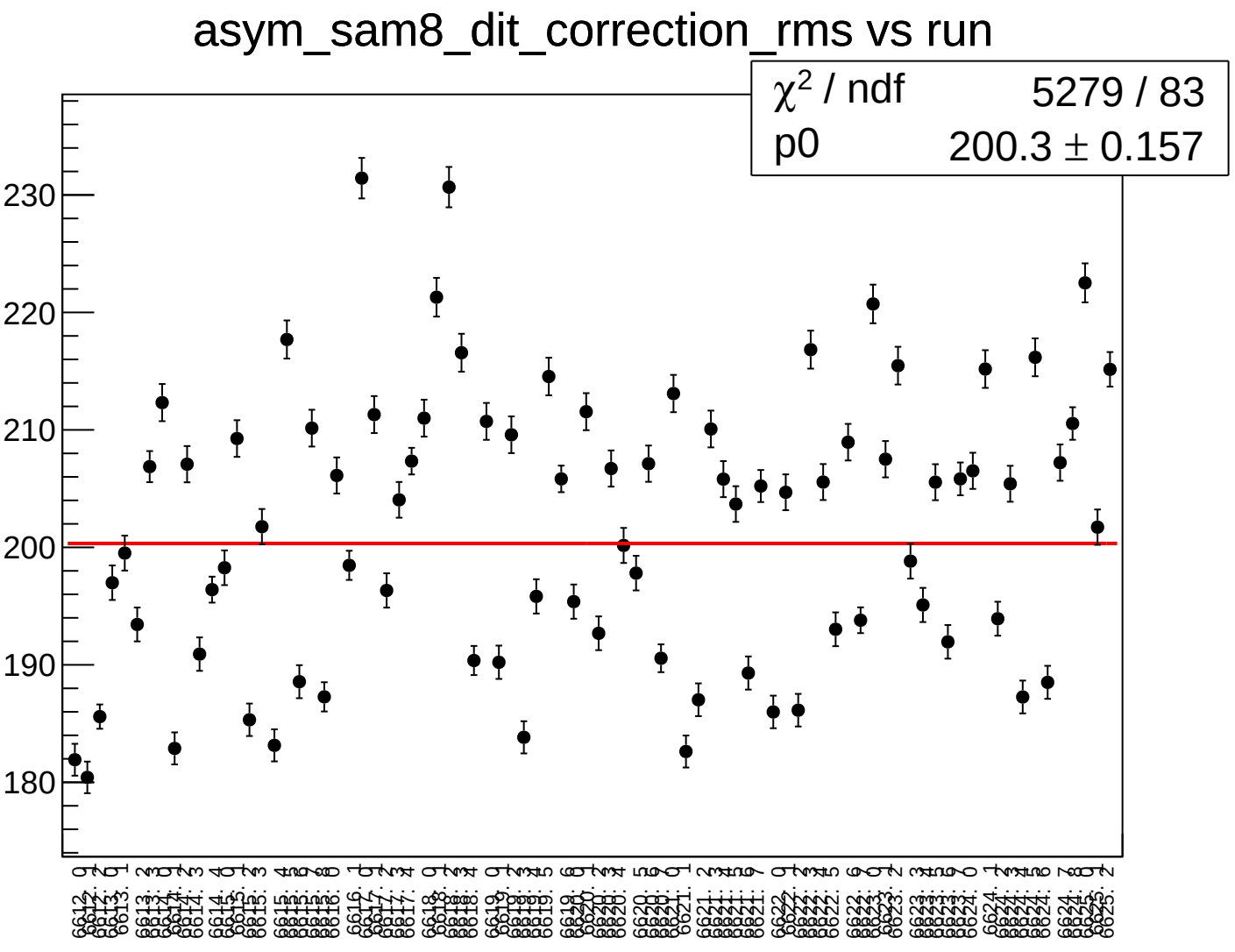

dit_asym_sam8_mean vs run
χ² / ndf 68.36 / 83
p0 −264.3 ± 70.06
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 170.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

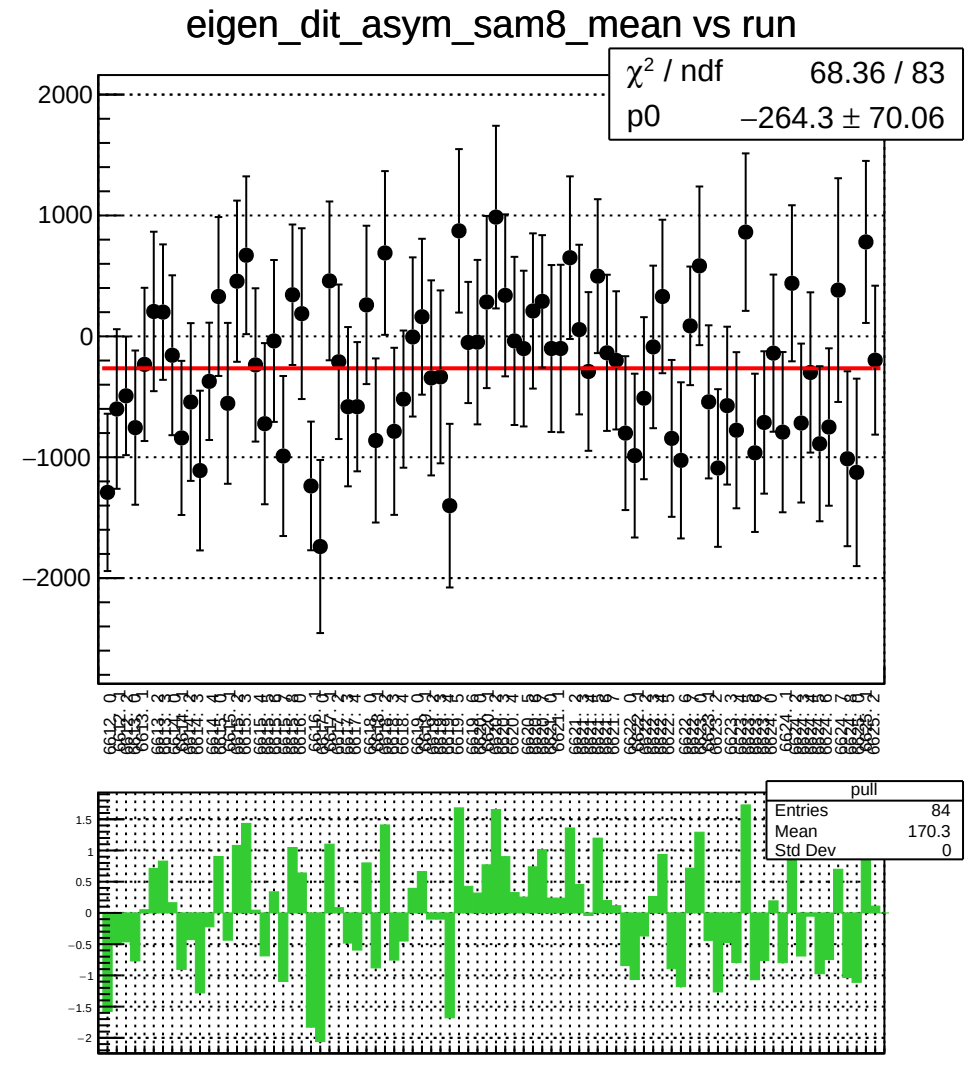

pull1D
Entries 84
Mean 0.003206
Std Dev 0.9021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

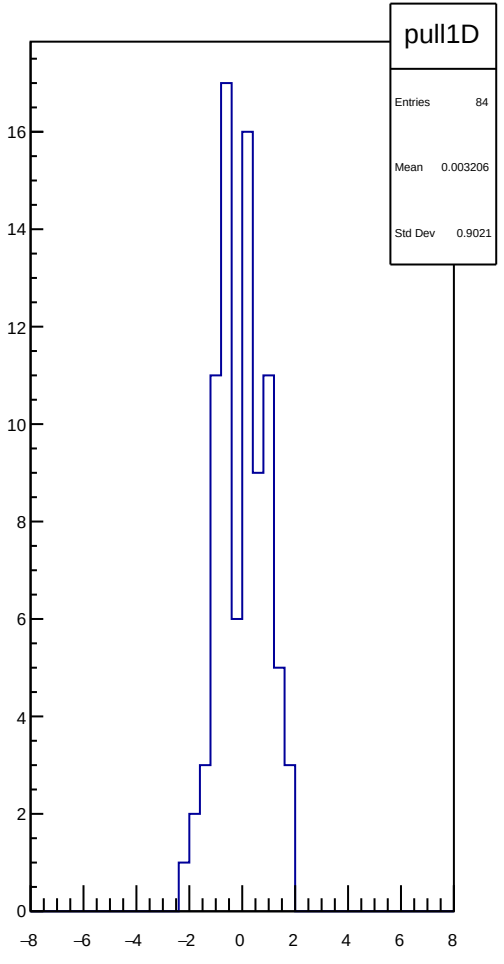

dit_asym_sam8_rms vs run
χ^2 / ndf 5030 / 83
p0 63.2 ± 0.04954
90
85
80
75
70
65
60

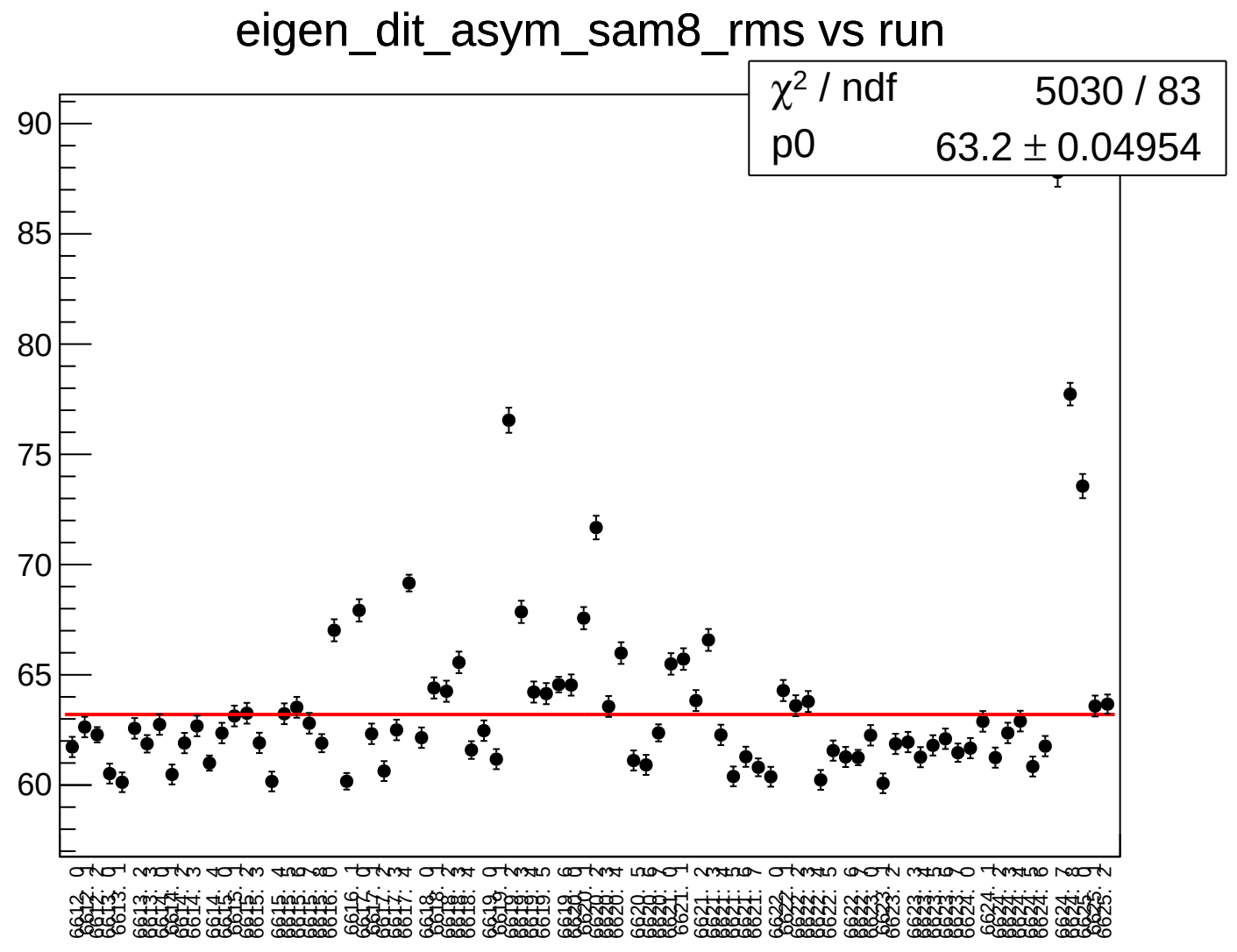

asym_sam8_dit_correction_mean vs run
χ^2 / ndf 71.65 / 83
p0 −303.6 ± 222.1
pull
Entries 84
Mean 420.3
Std Dev 0

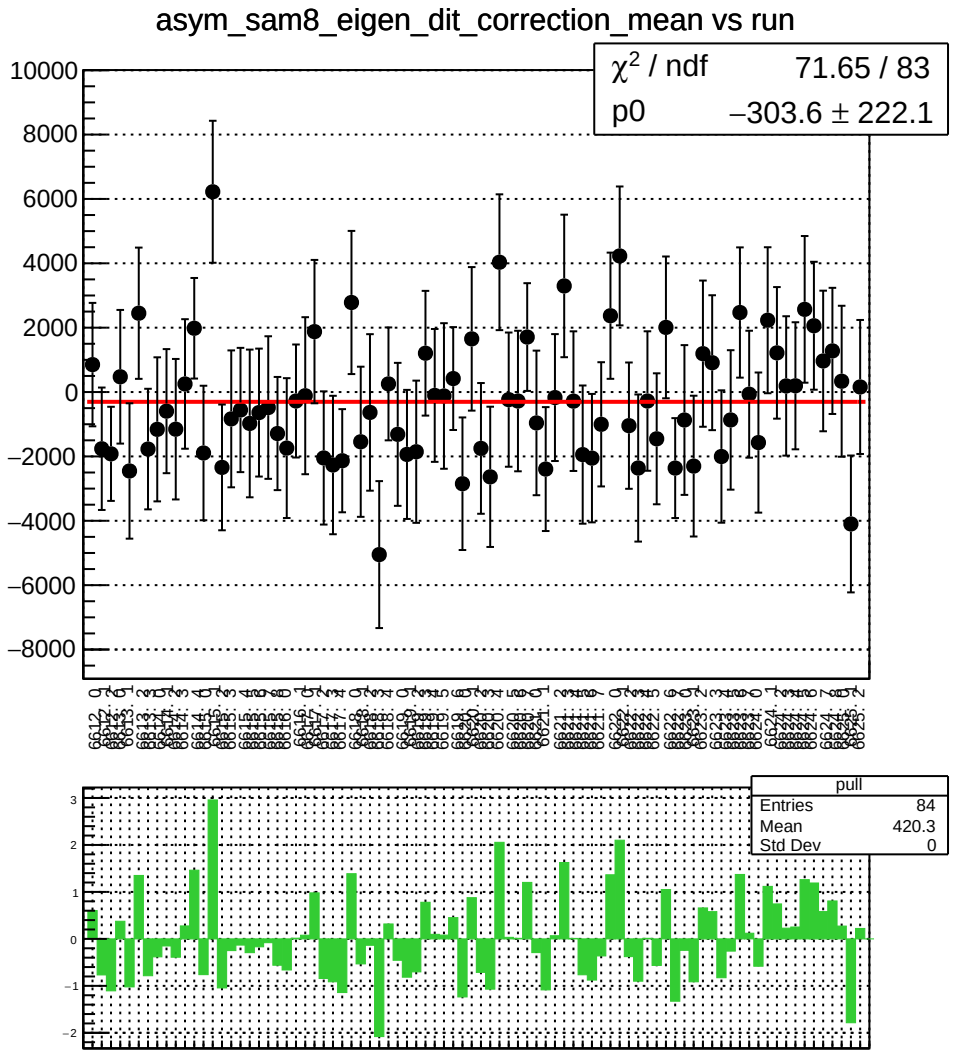

pull1D
Entries 84
Mean 0.008094
Std Dev 0.9235

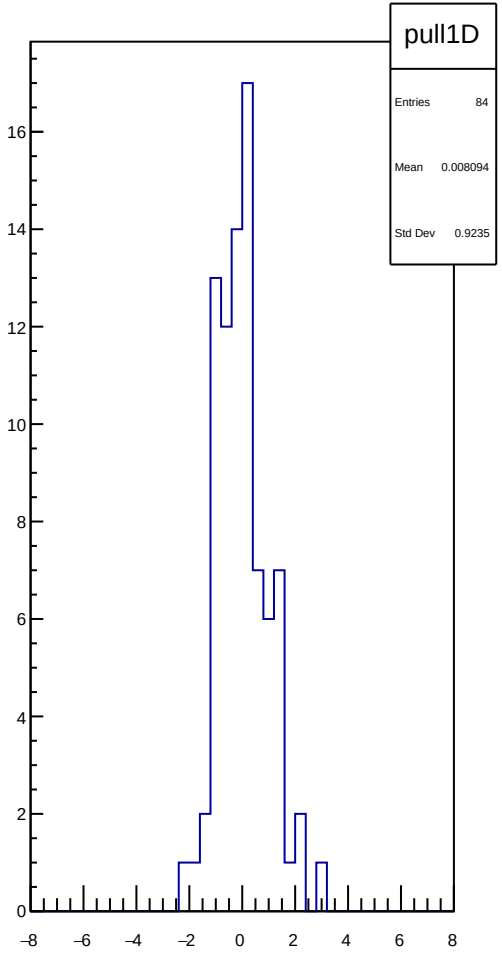

asym_sam8_dit_correction_rms vs run
χ² / ndf 5279 / 83
p0 200.3 ± 0.157
230
220
210
200
190
180

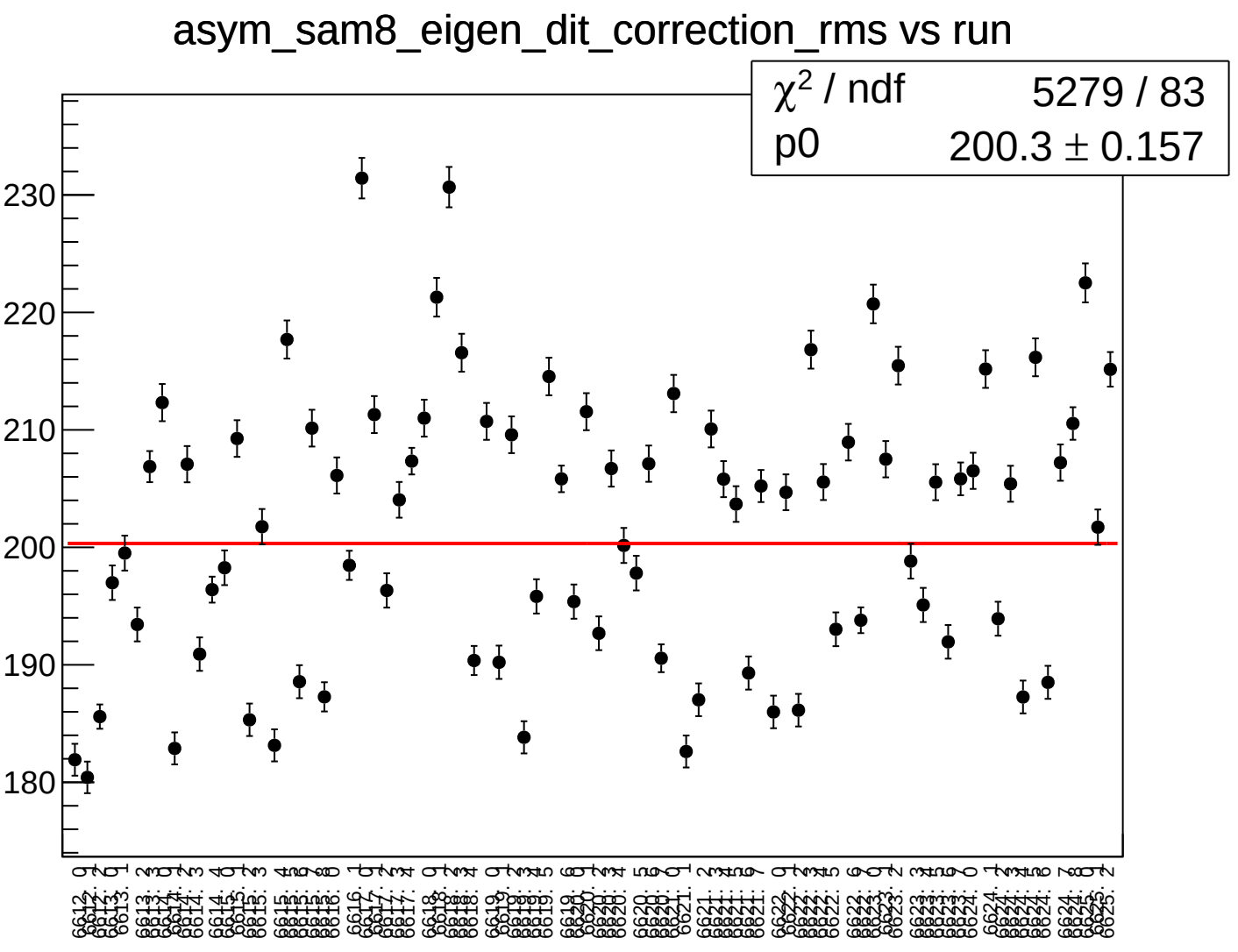

eigen_dit_asym_sam8_mean vs run
χ² / ndf 68.36 / 83
p0 −264.3 ± 70.06
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 170.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

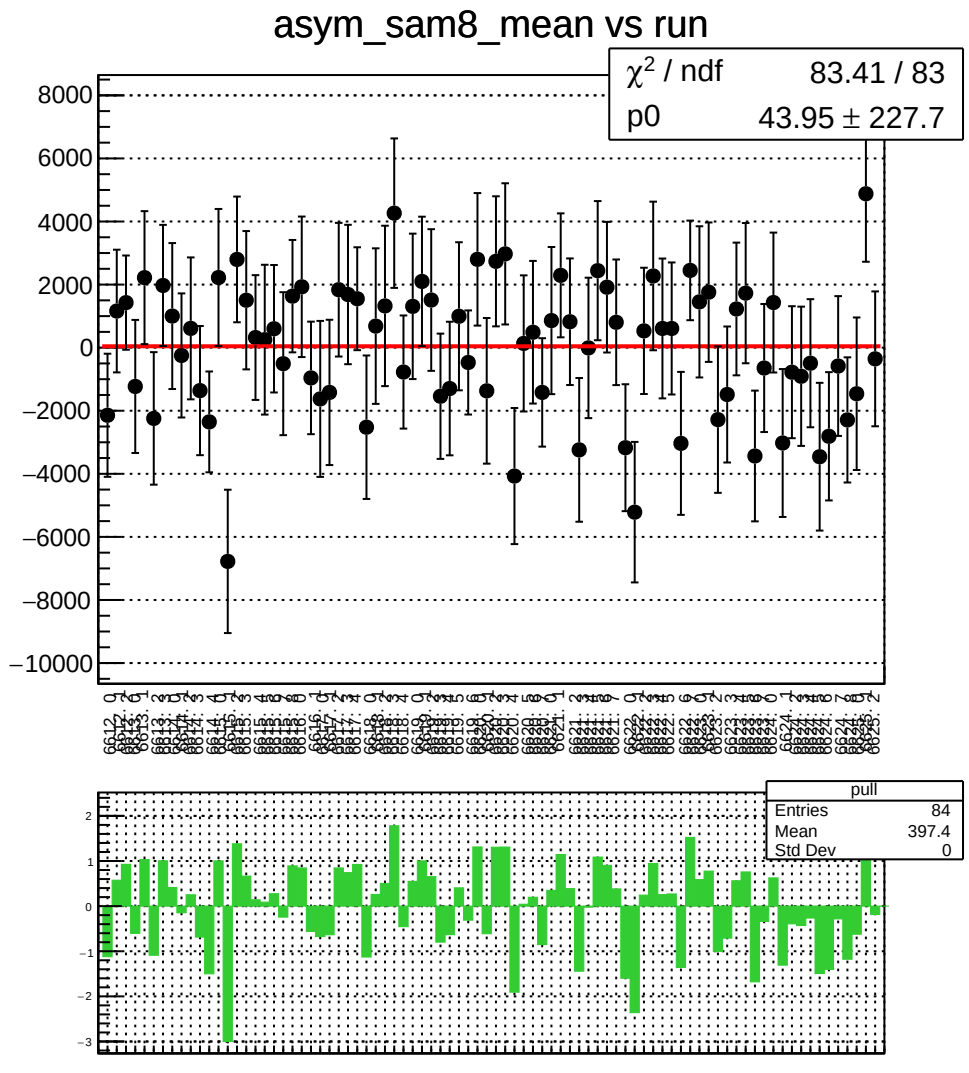

pull1D
Entries 84
Mean 0.003206
Std Dev 0.9021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

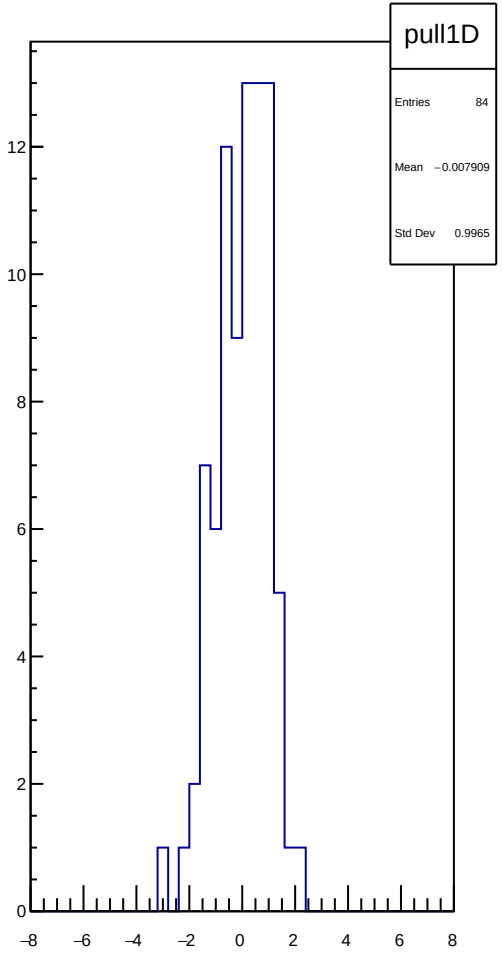

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 5030 / 83
p0 63.2 ± 0.04954
90
85
80
75
70
65
60

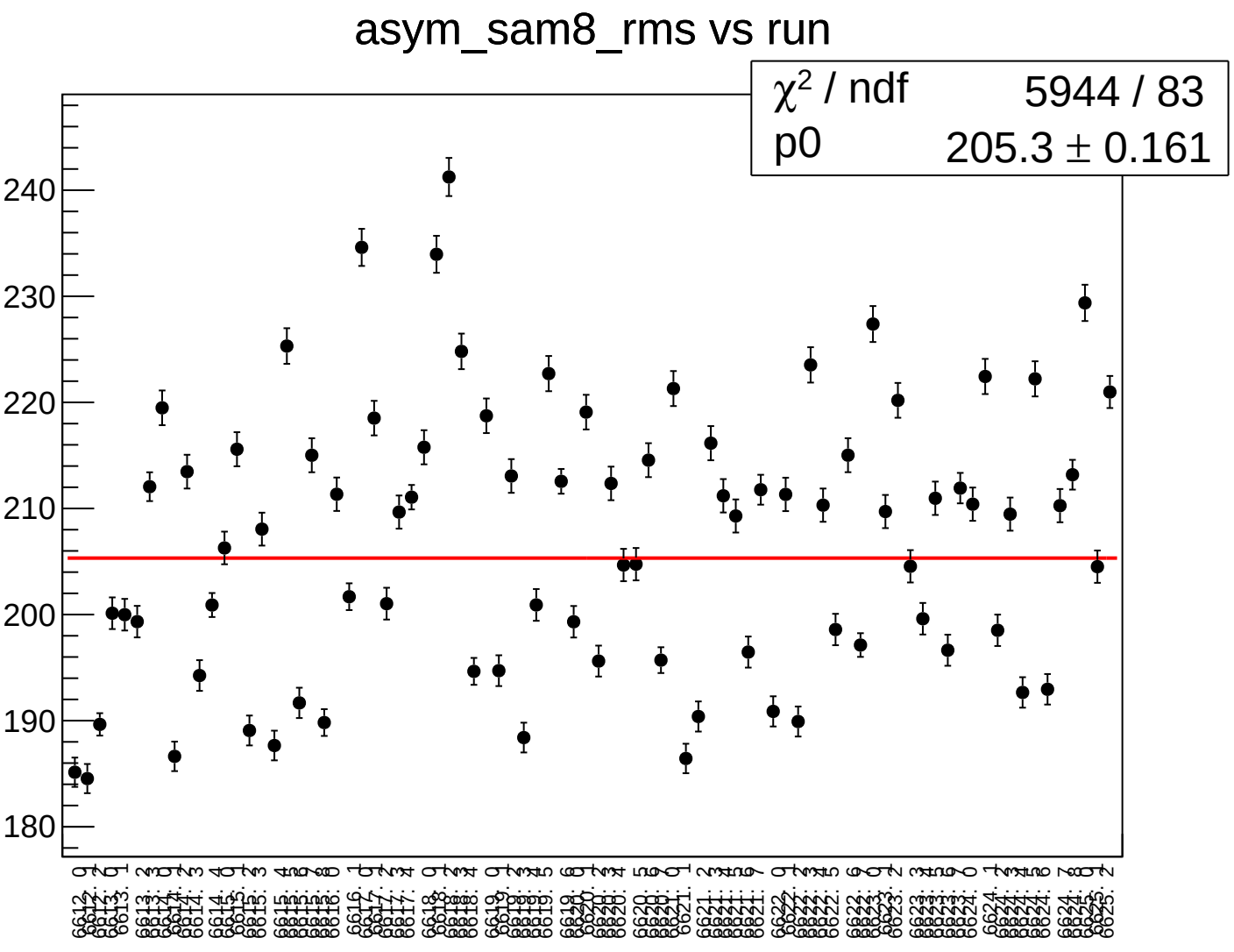

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 71.65 / 83
p0 −303.6 ± 222.1
pull
Entries 84
Mean 420.3
Std Dev 0

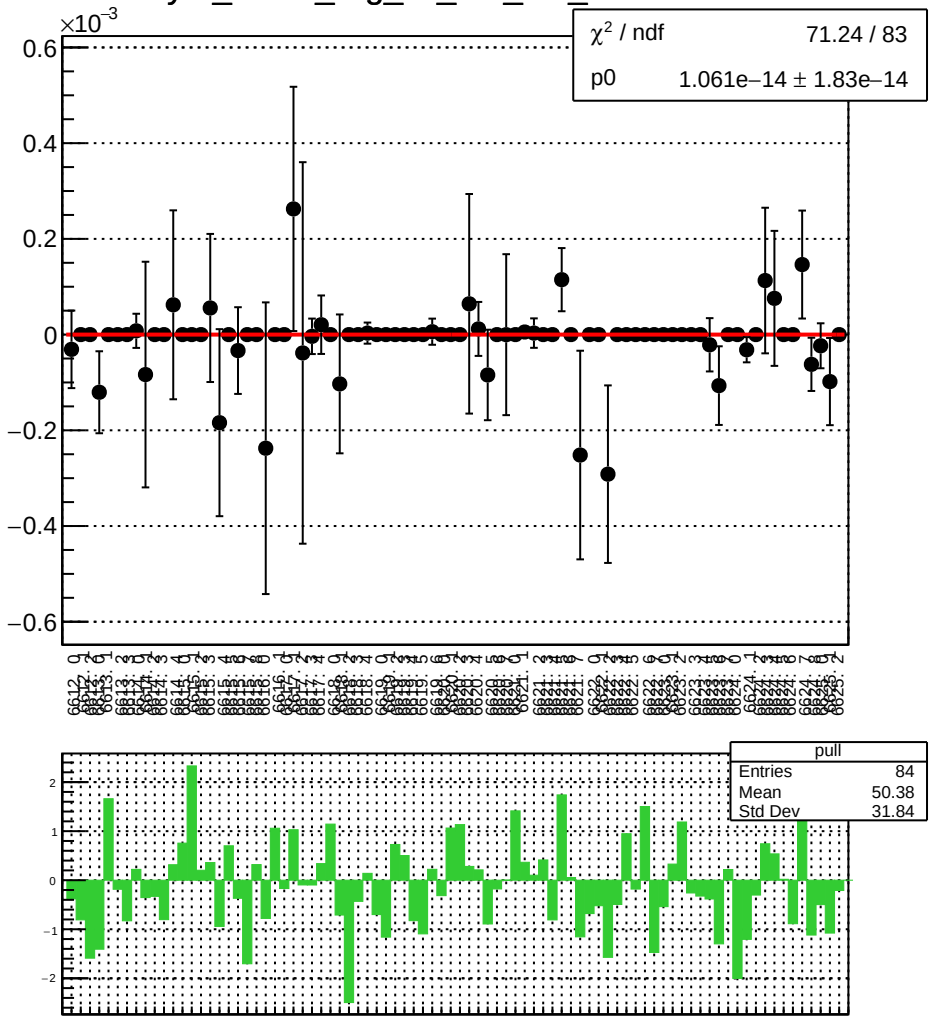

pull1D
Entries 84
Mean 0.008094
Std Dev 0.9235

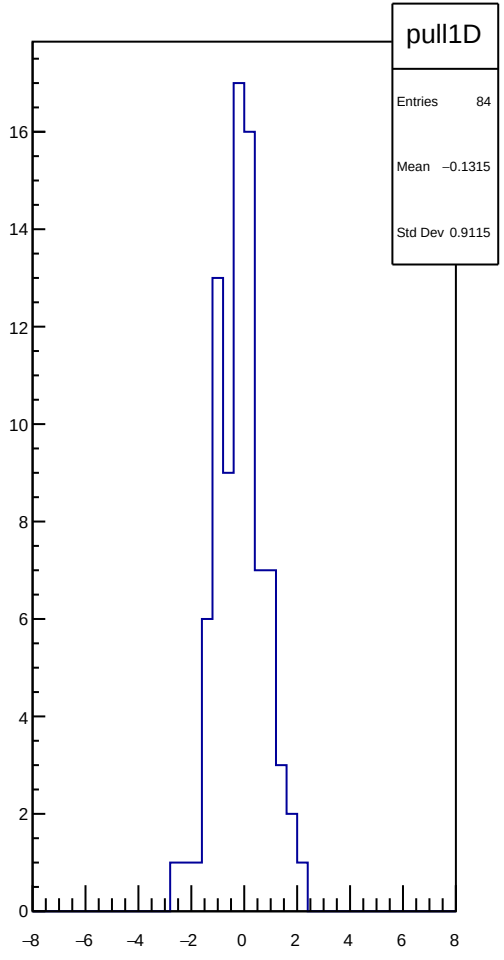

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 5279 / 83
p0 200.3 ± 0.157
230
220
210
200
190
180

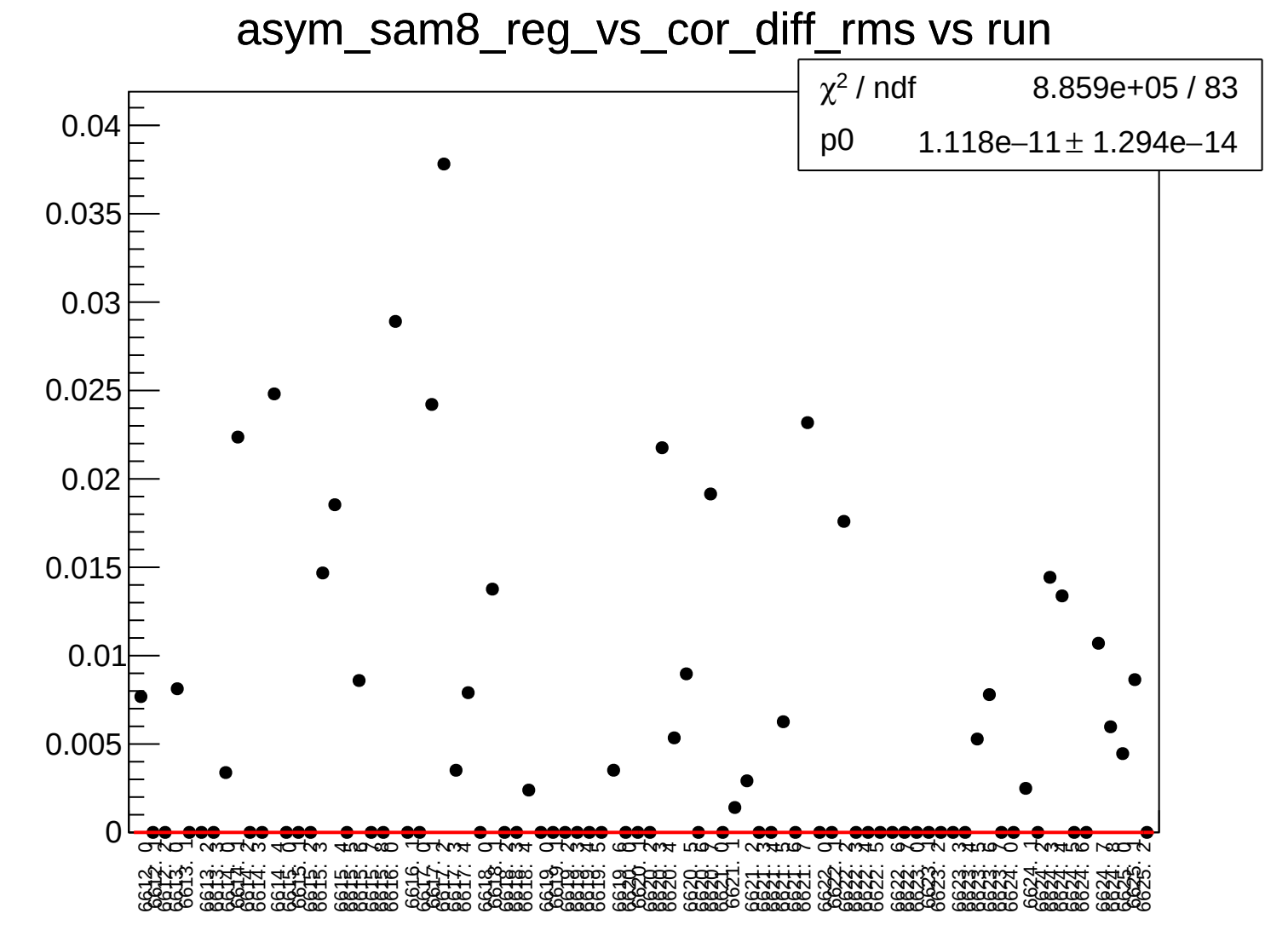

asym_sam8_mean vs run
χ² / ndf 83.41 / 83
p0 43.95 ± 227.7
pull
Entries 84
Mean 397.4
Std Dev 0

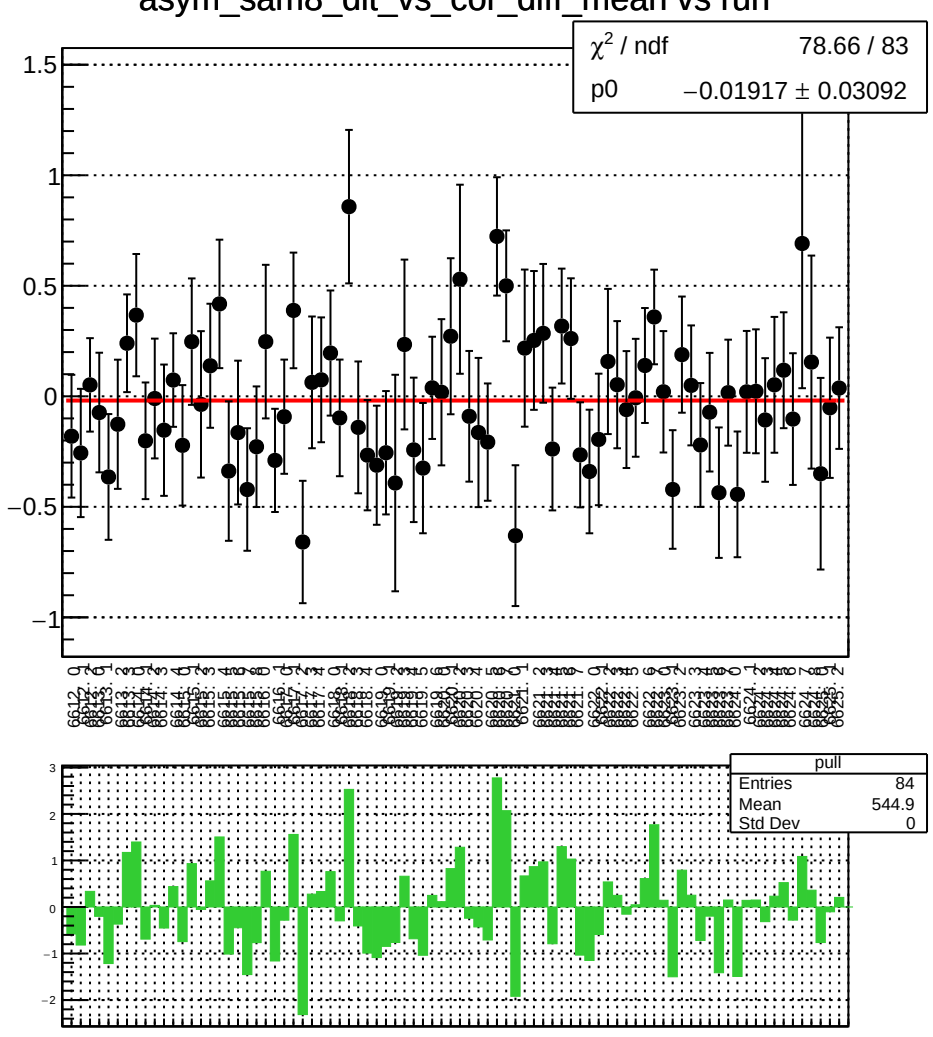

pull1D
Entries 84
Mean −0.007909
Std Dev 0.9965

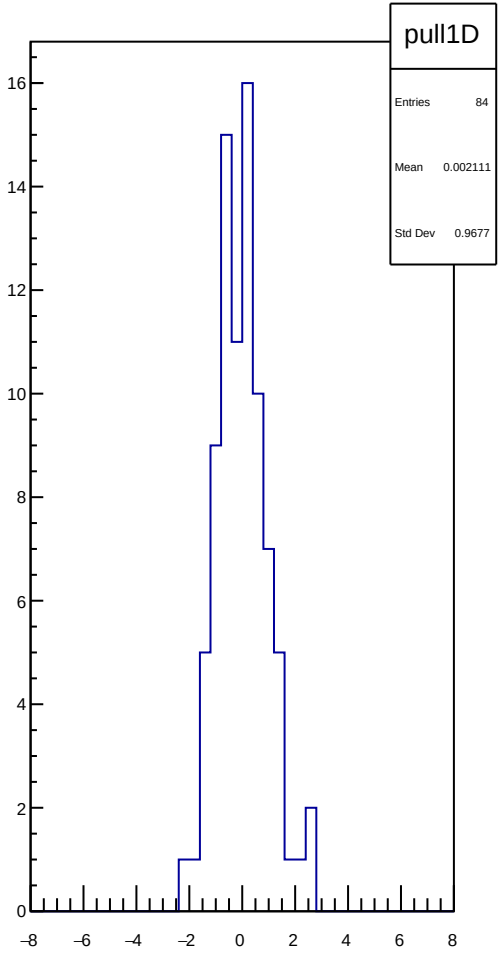

asym_sam8_rms vs run
χ^2 / ndf 5944 / 83
p0 205.3 ± 0.161
240
230
220
210
200
190
180

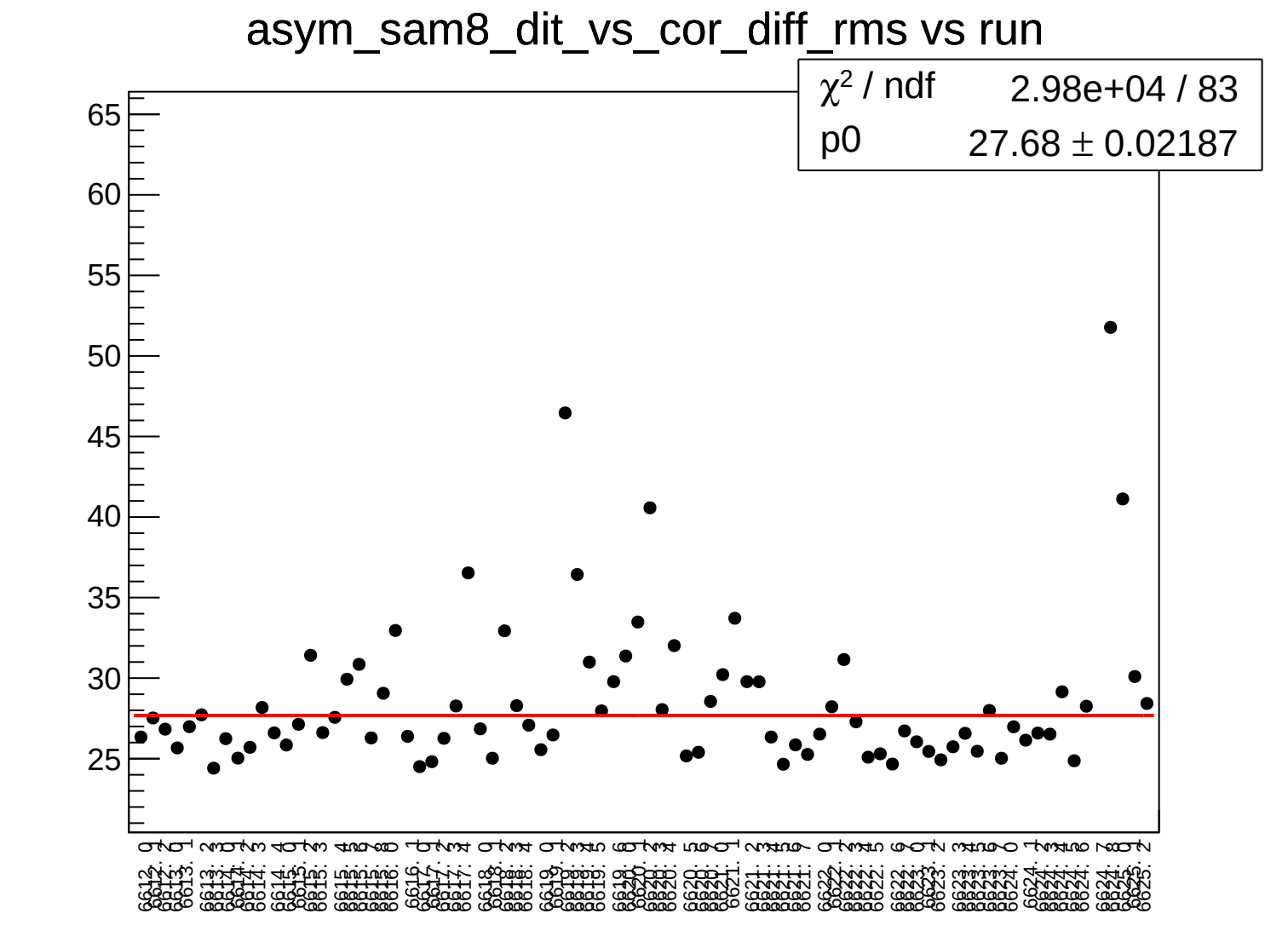

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 71.24 / 83
p0 1.061e−14 ± 1.83e−14
pull
Entries 84
Mean 50.38
Std Dev 31.84

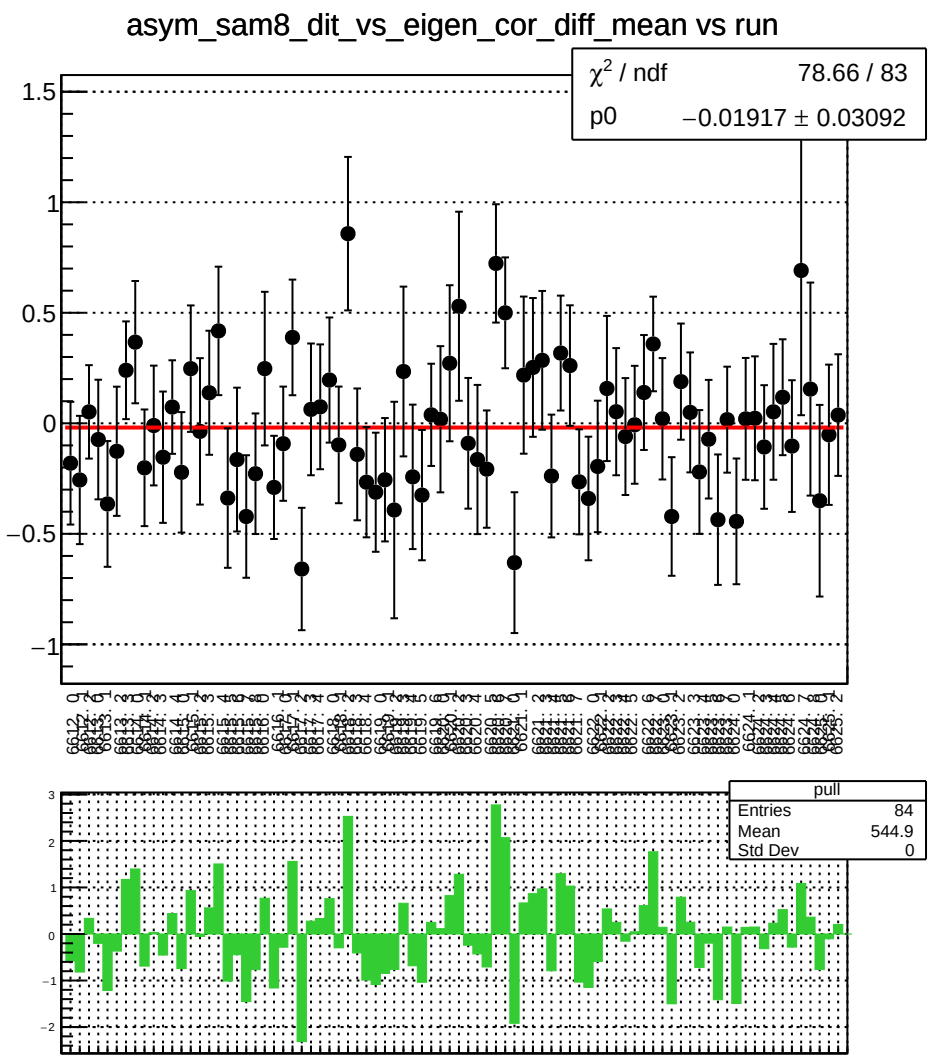

pull1D
Entries 84
Mean −0.1315
Std Dev 0.9115

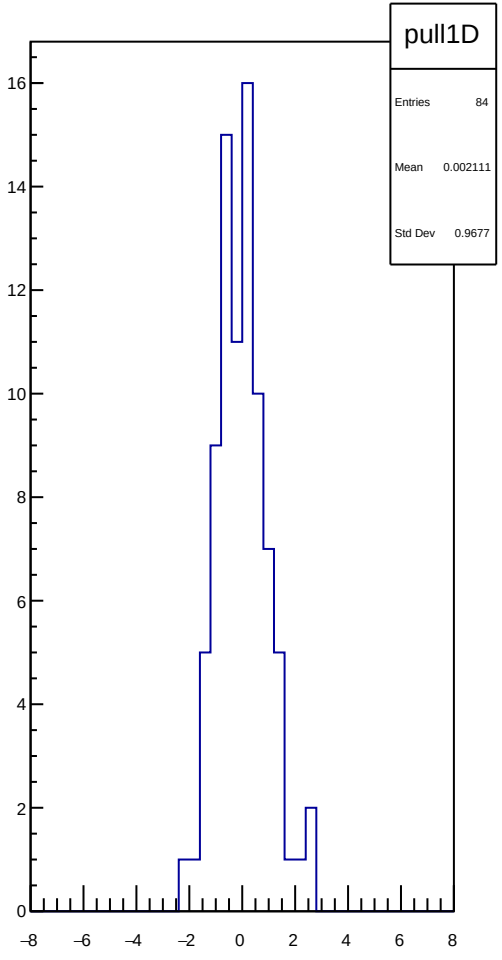

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 8.859e+05 / 83
p0 1.118e−11 ± 1.294e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

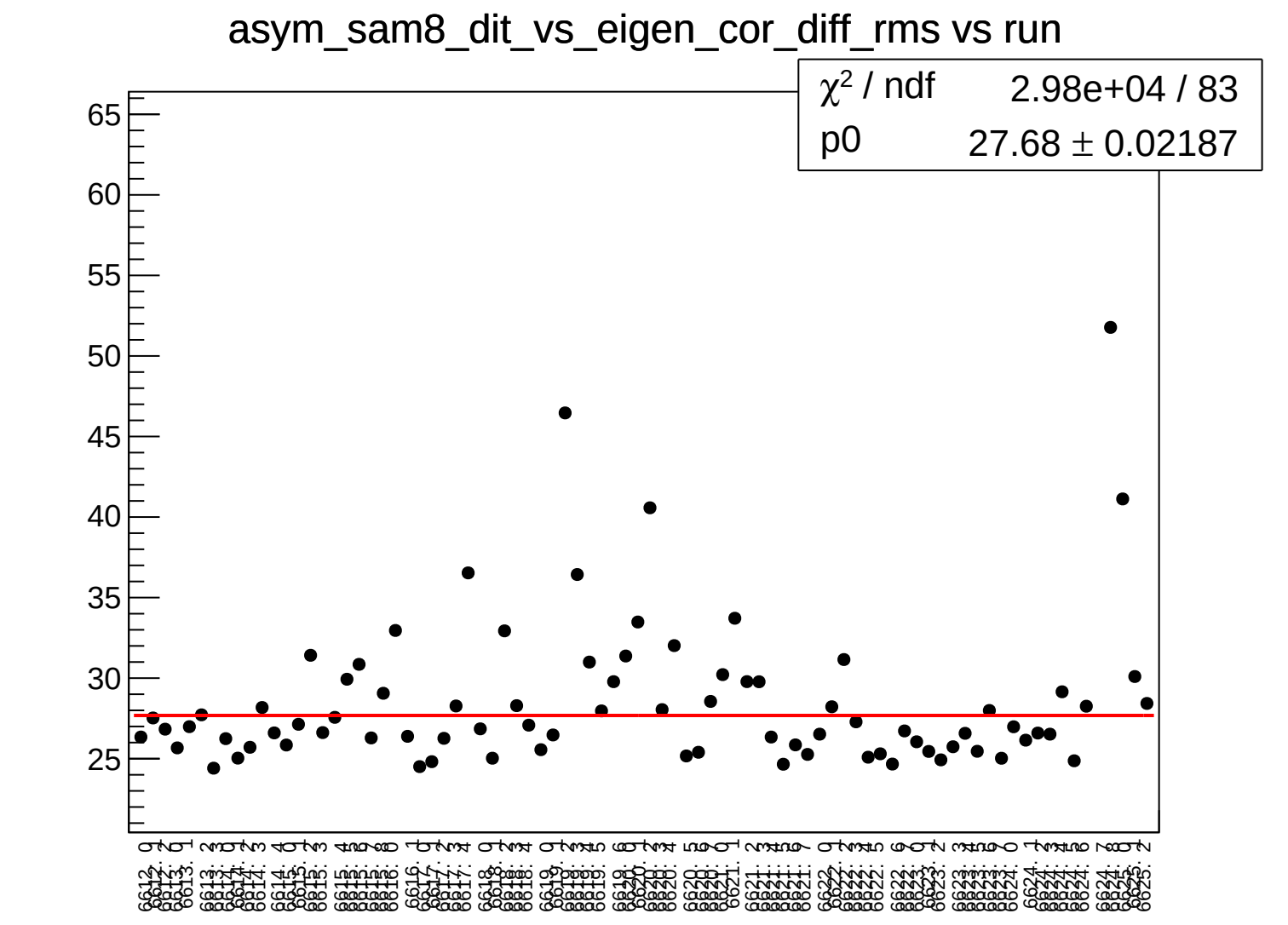

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 78.66 / 83
p0 −0.01917 ± 0.03092
pull
Entries 84
Mean 544.9
Std Dev 0

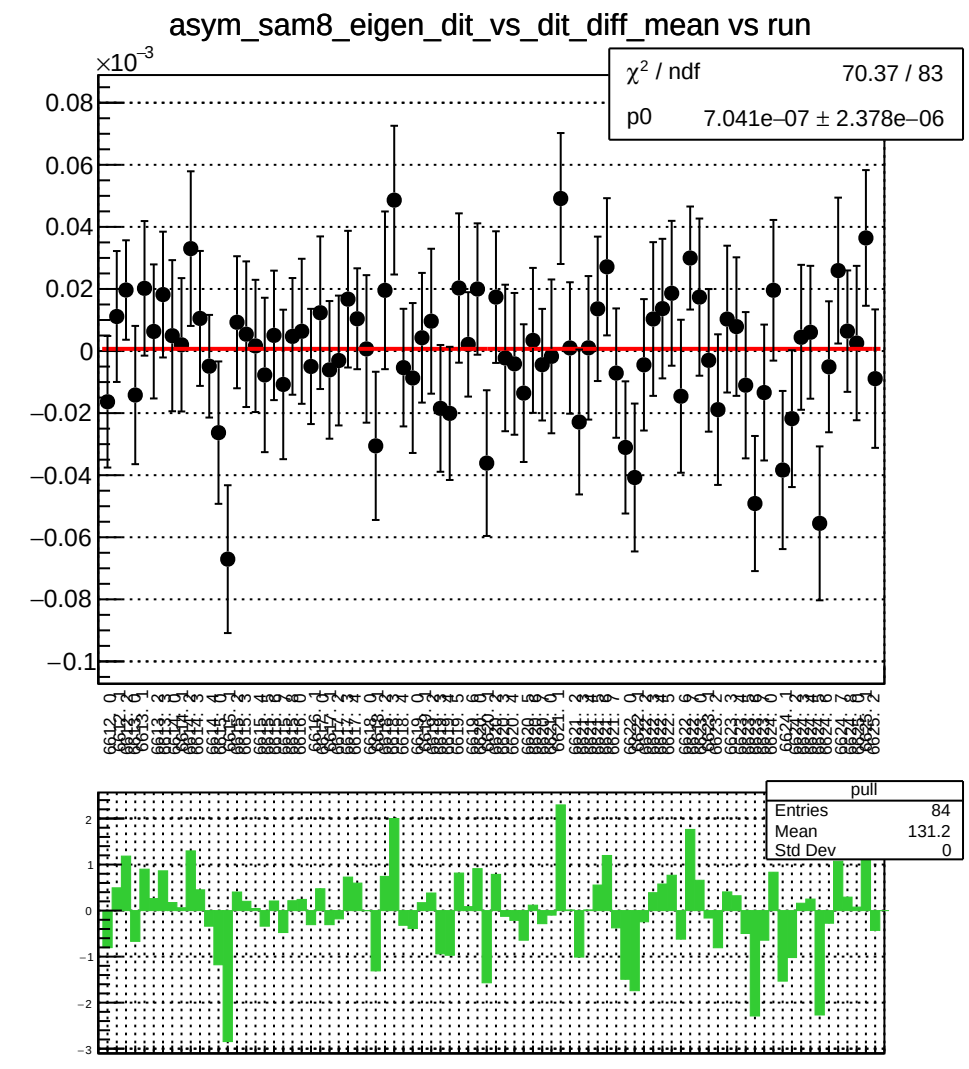

pull1D
Entries 84
Mean 0.002111
Std Dev 0.9677

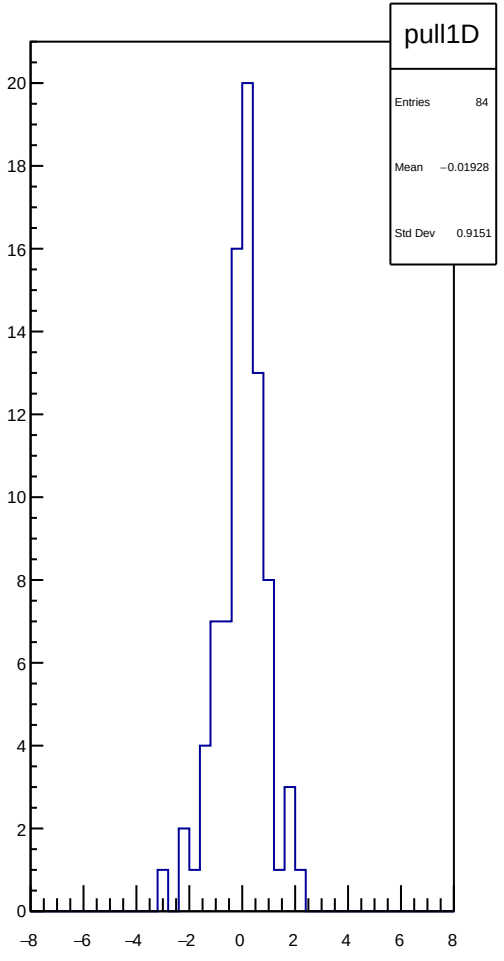

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 2.98e+04 / 83
p0 27.68 ± 0.02187
65
60
55
50
45
40
35
30
25

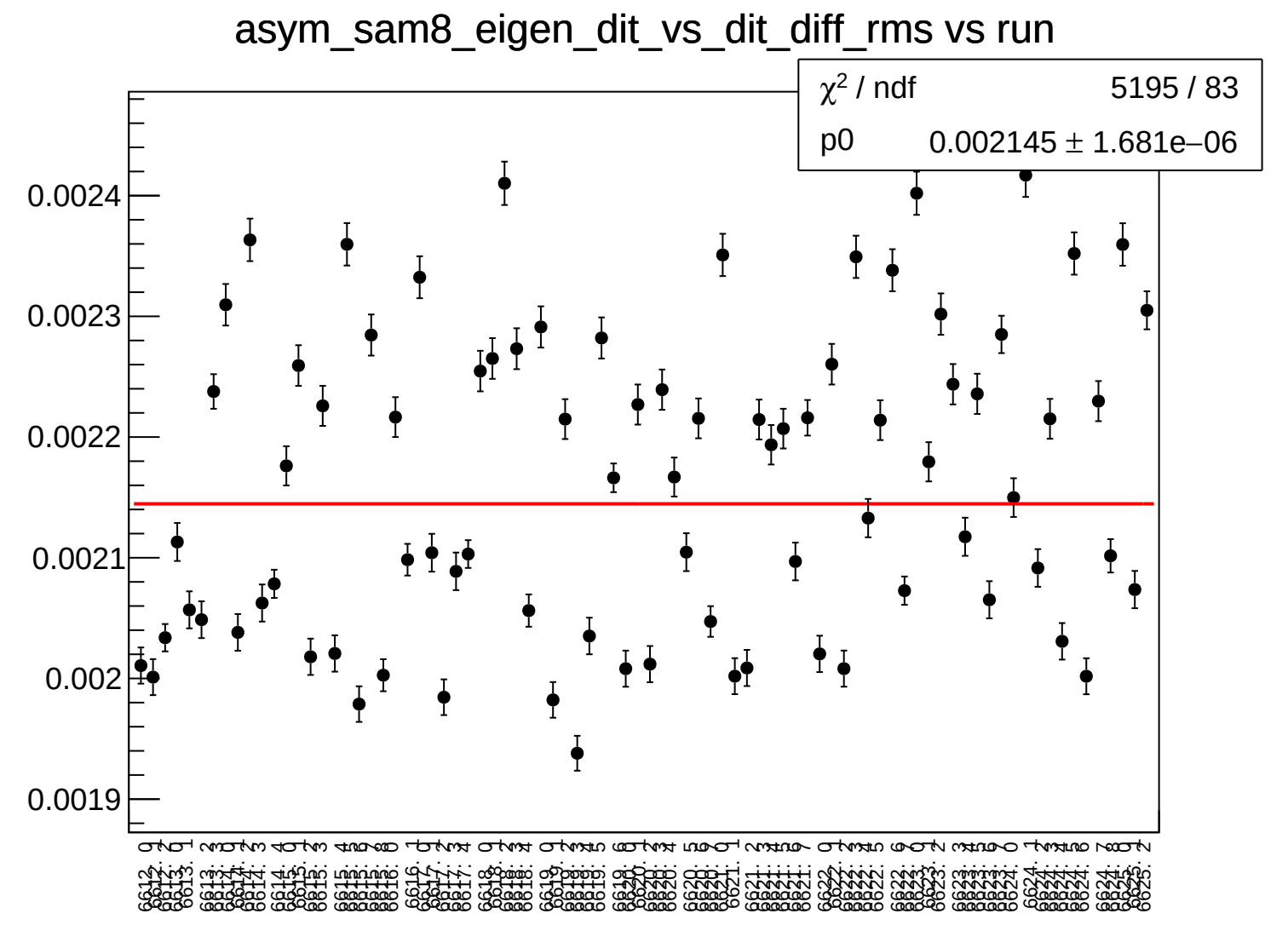

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.66 / 83
p0 −0.01917 ± 0.03092
pull
Entries 84
Mean 544.9
Std Dev 0

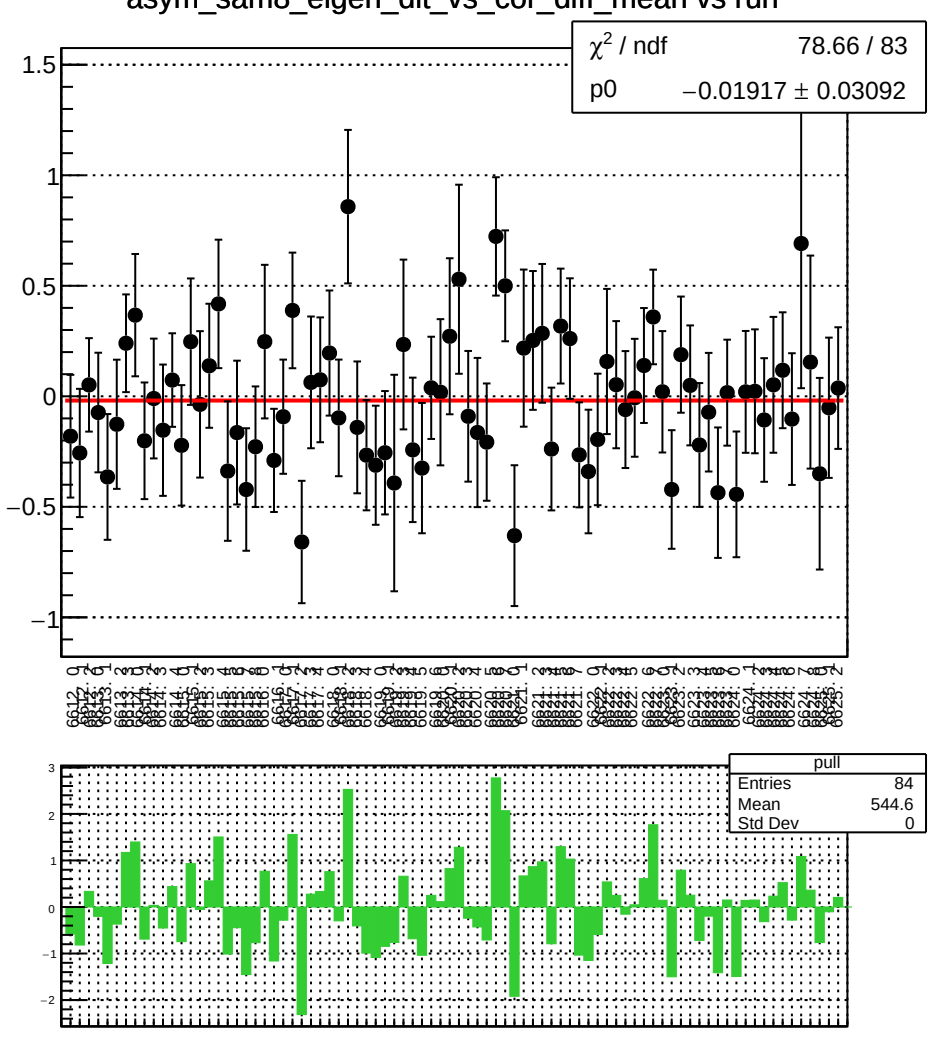

pull1D
Entries 84
Mean 0.002111
Std Dev 0.9677

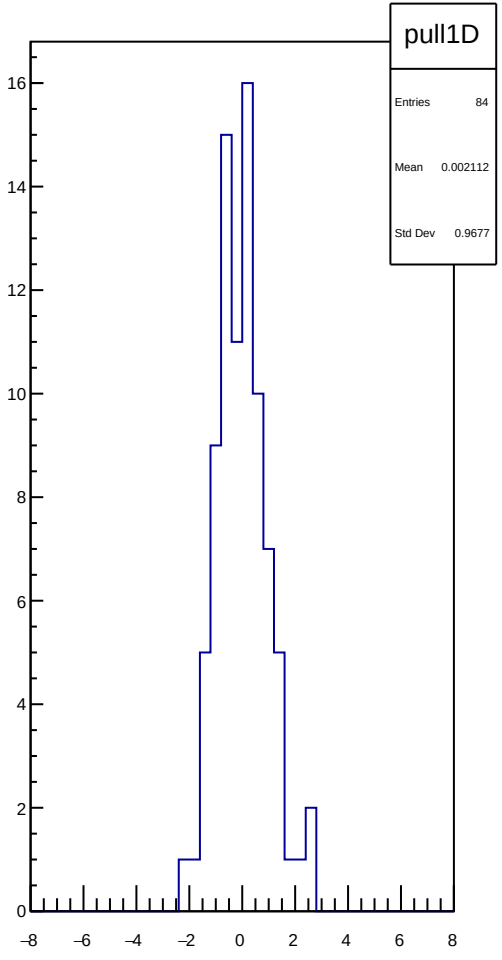

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.98e+04 / 83
p0 27.68 ± 0.02187
65
60
55
50
45
40
35
30
25

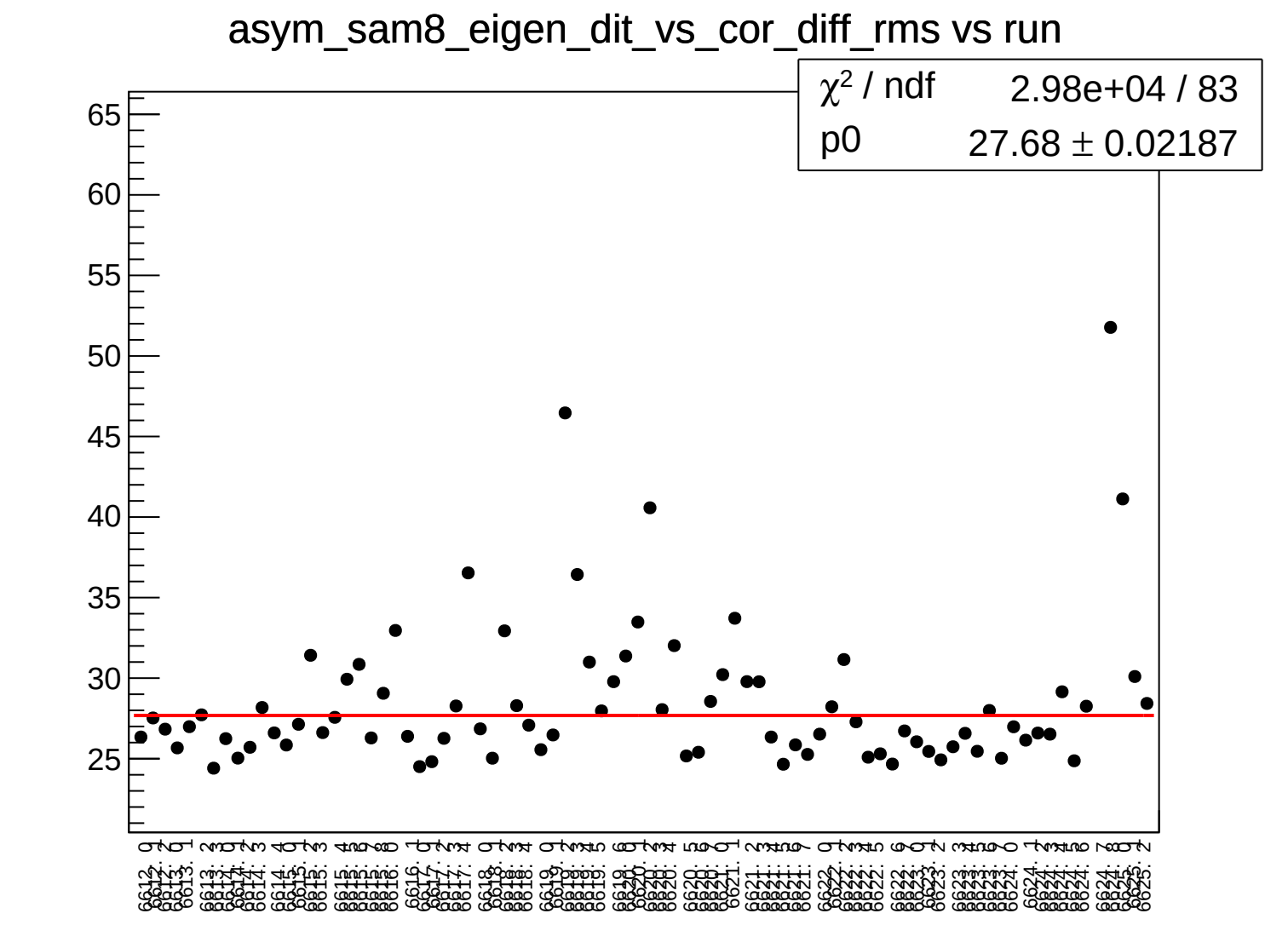

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.37 / 83
p0 7.041e−07 ± 2.378e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 84
Mean 131.2
Std Dev 0
2
1
0
−1
−2
−3

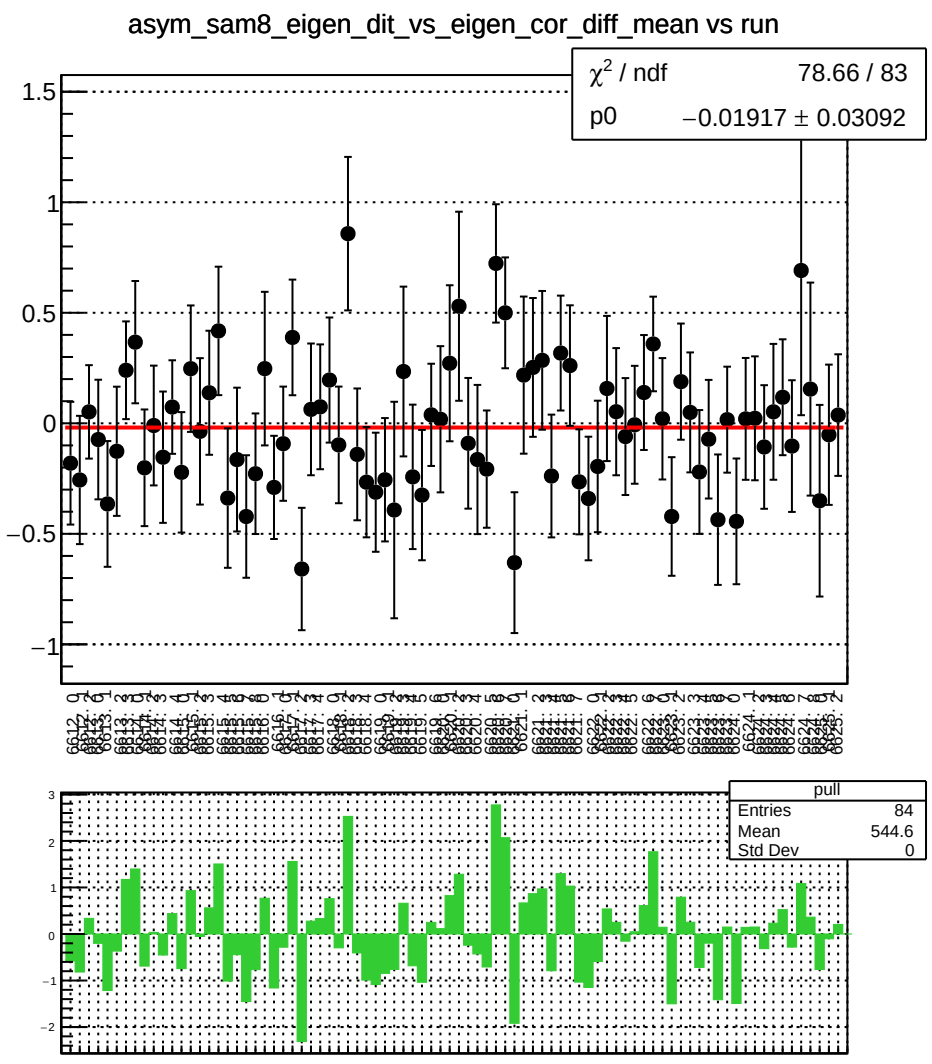

pull1D
Entries 84
Mean −0.01928
Std Dev 0.9151
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

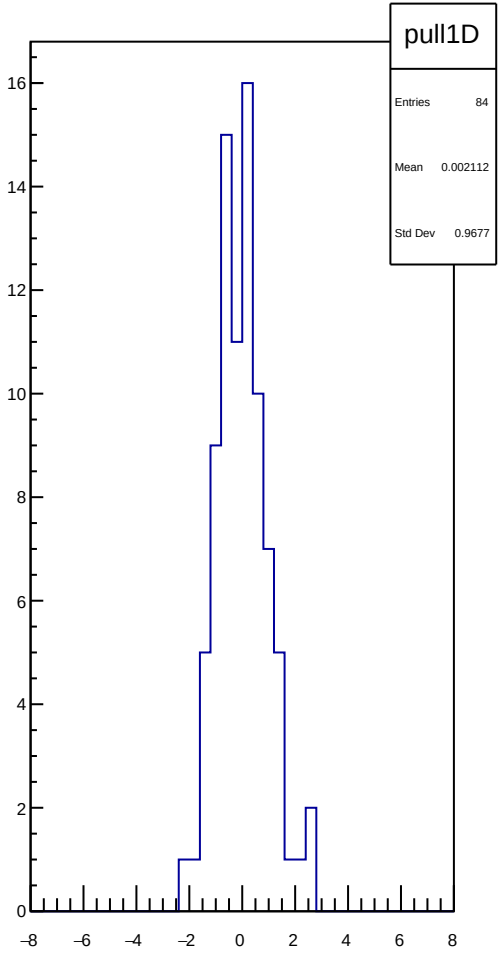

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5195 / 83
p0 0.002145 ± 1.681e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

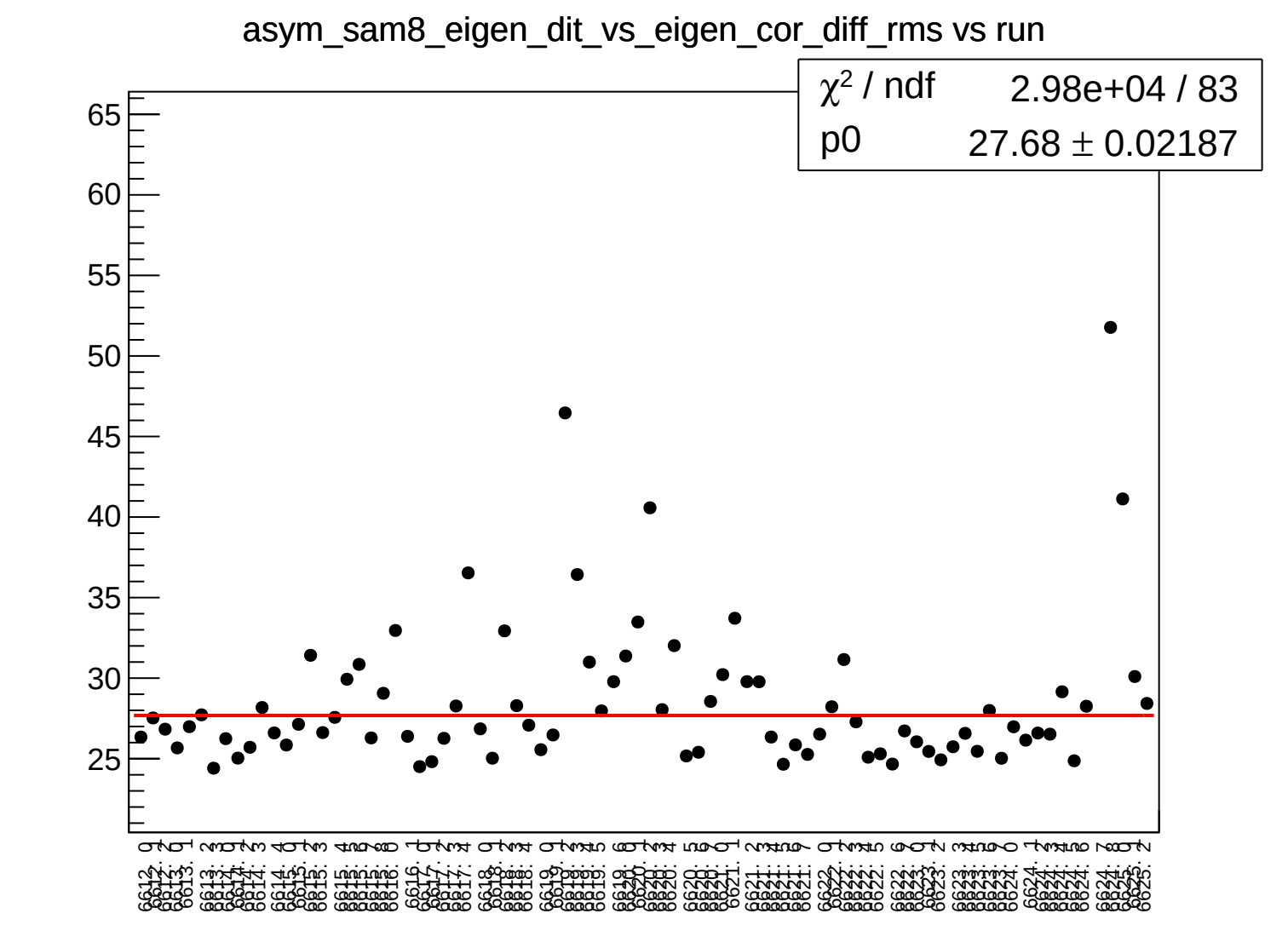

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.66 / 83
p0 −0.01917 ± 0.03092
pull
Entries 84
Mean 544.6
Std Dev 0

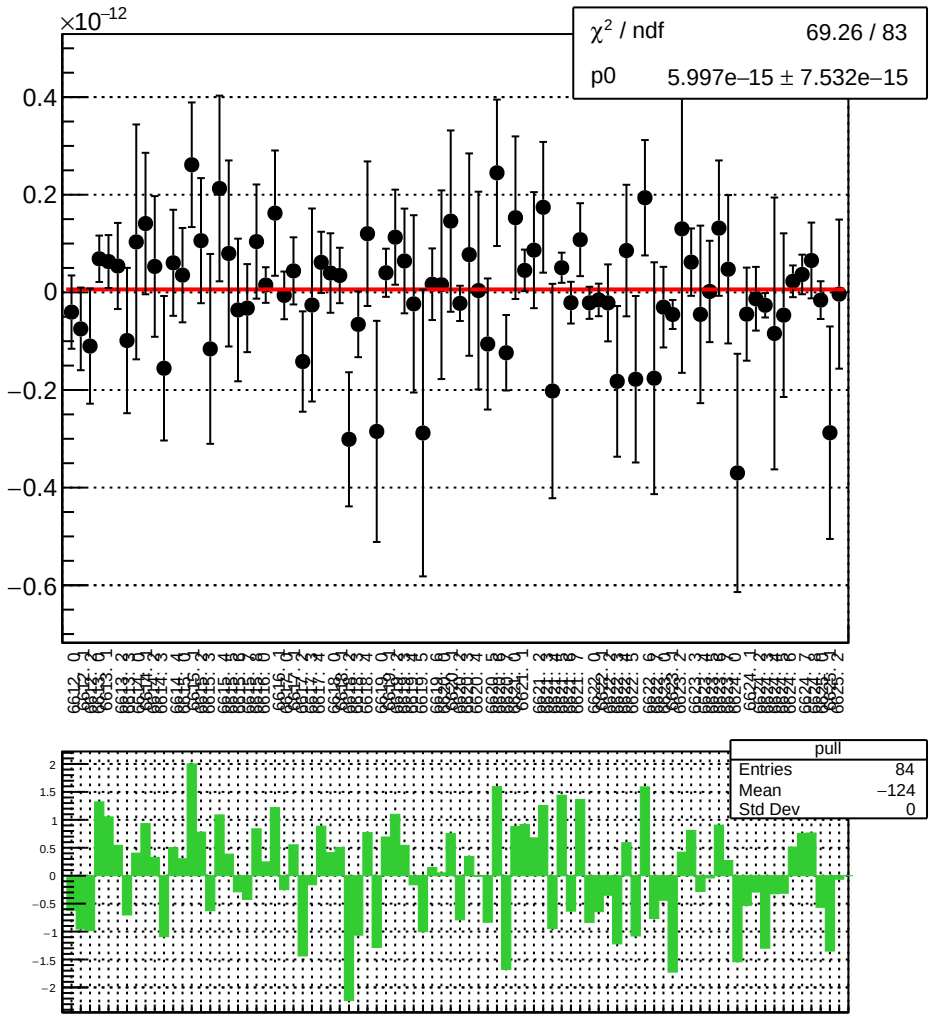

pull1D
Entries 84
Mean 0.002112
Std Dev 0.9677

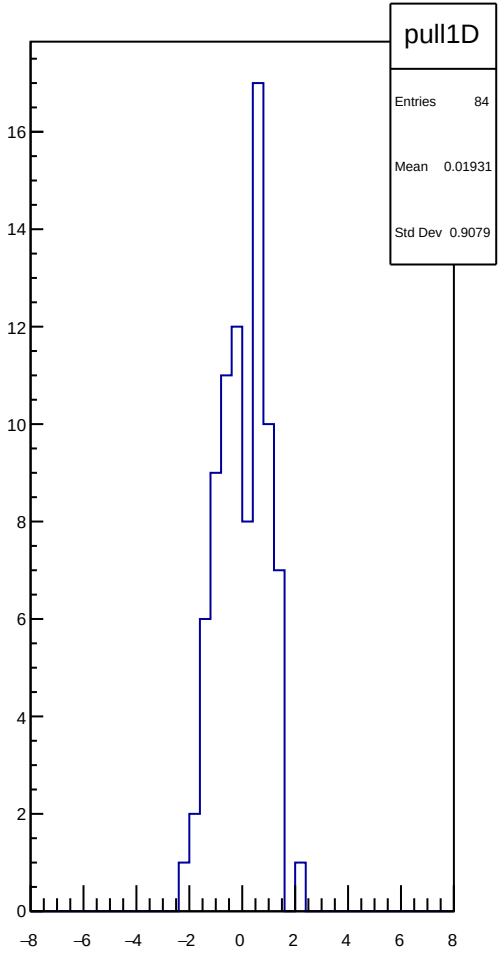

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.98e+04 / 83
p0 27.68 ± 0.02187
65
60
55
50
45
40
35
30
25

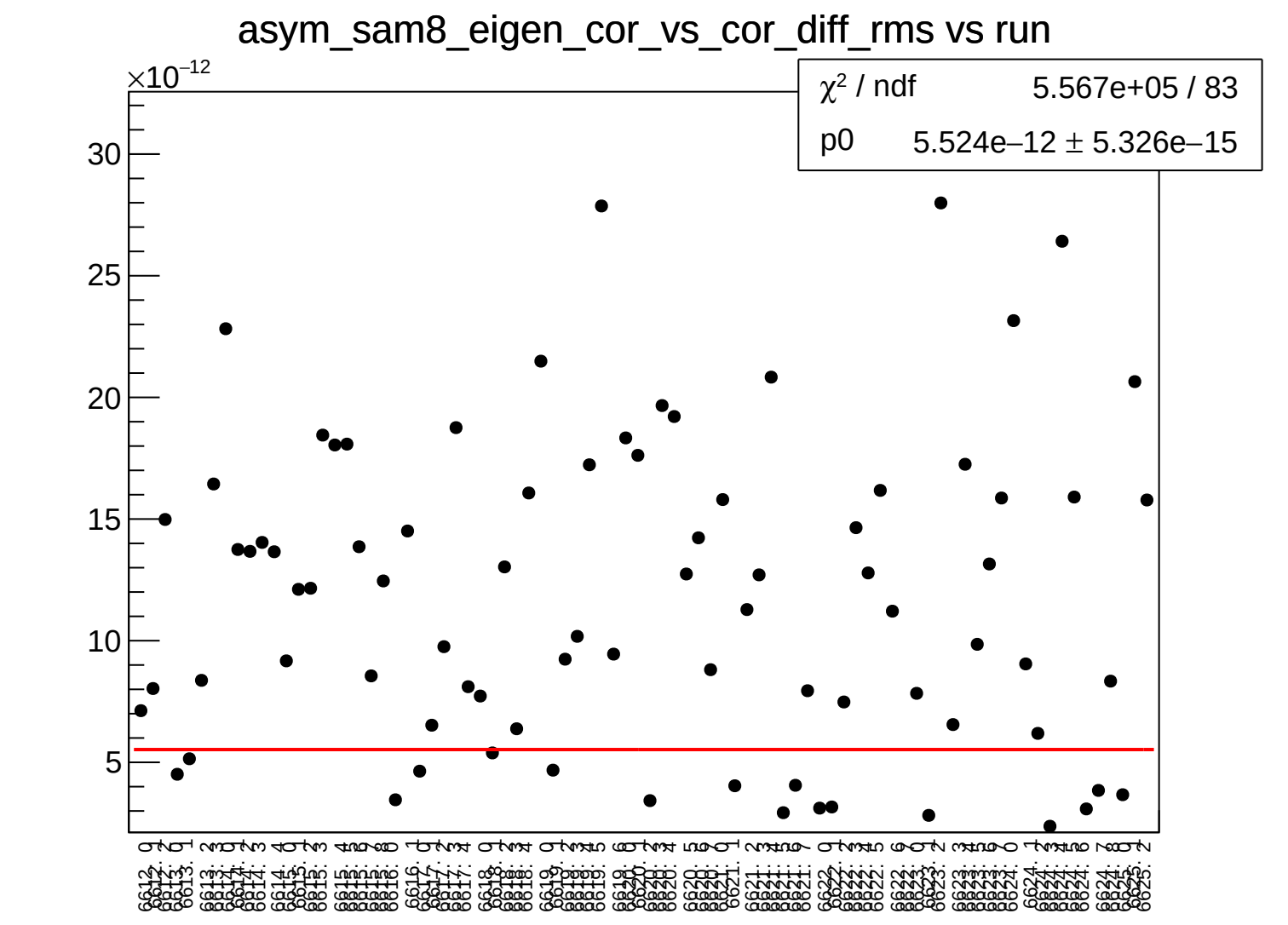

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.66 / 83
p0 −0.01917 ± 0.03092
pull
Entries 84
Mean 544.6
Std Dev 0

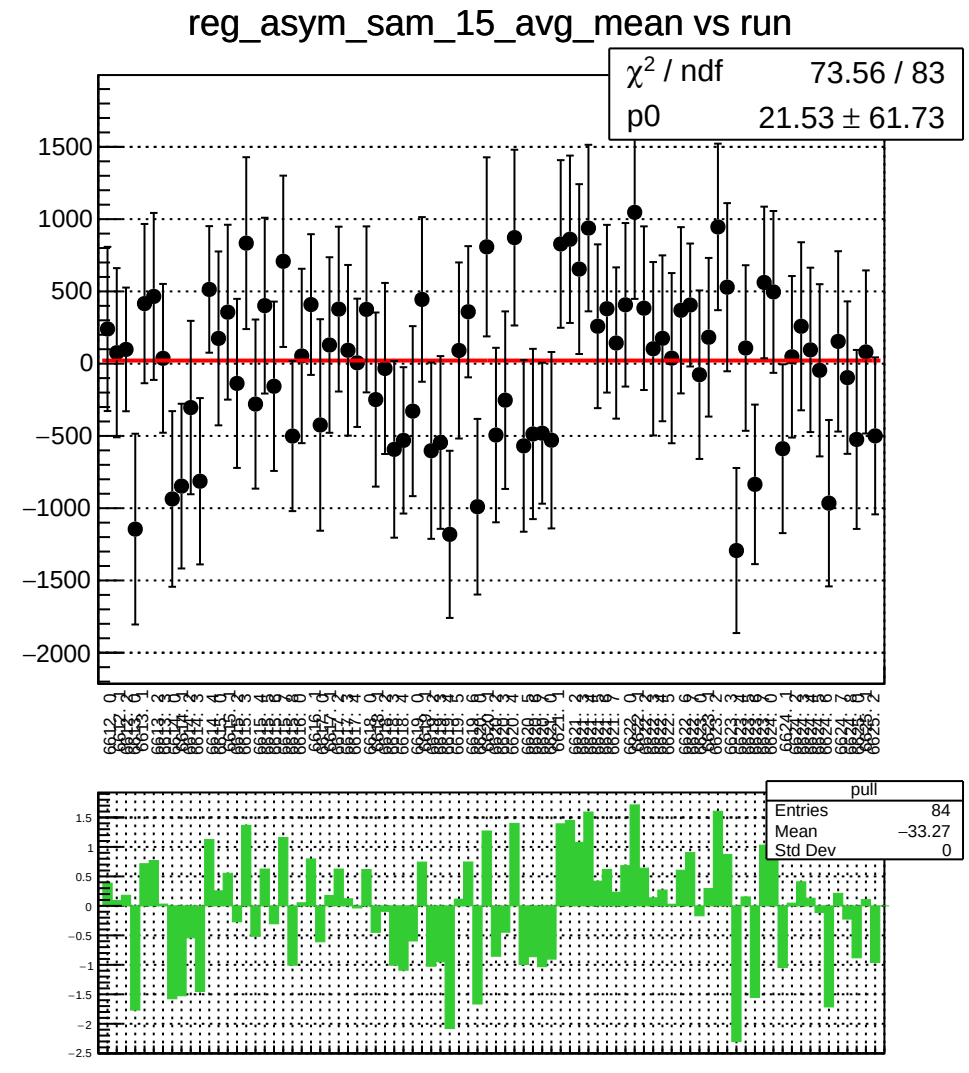

pull1D
Entries 84
Mean 0.002112
Std Dev 0.9677

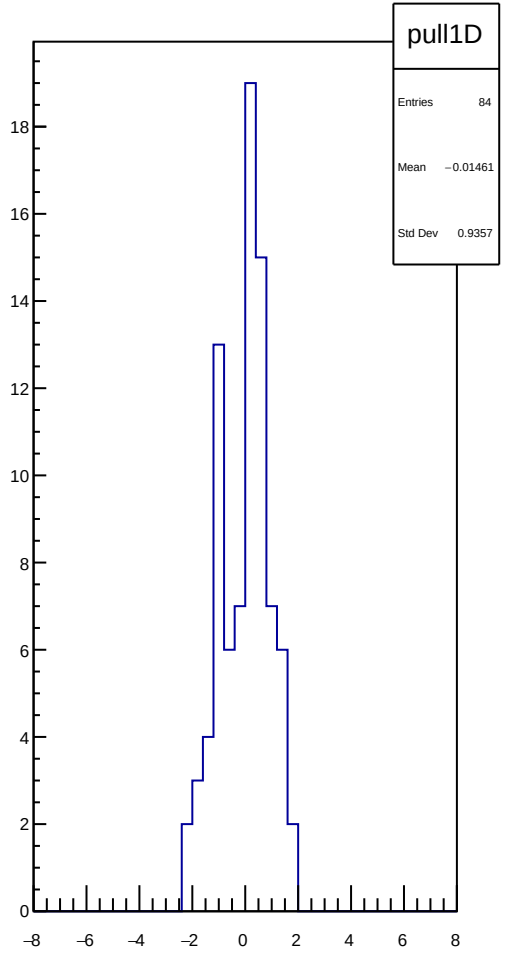

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.98e+04 / 83
p0 27.68 ± 0.02187
65
60
55
50
45
40
35
30
25

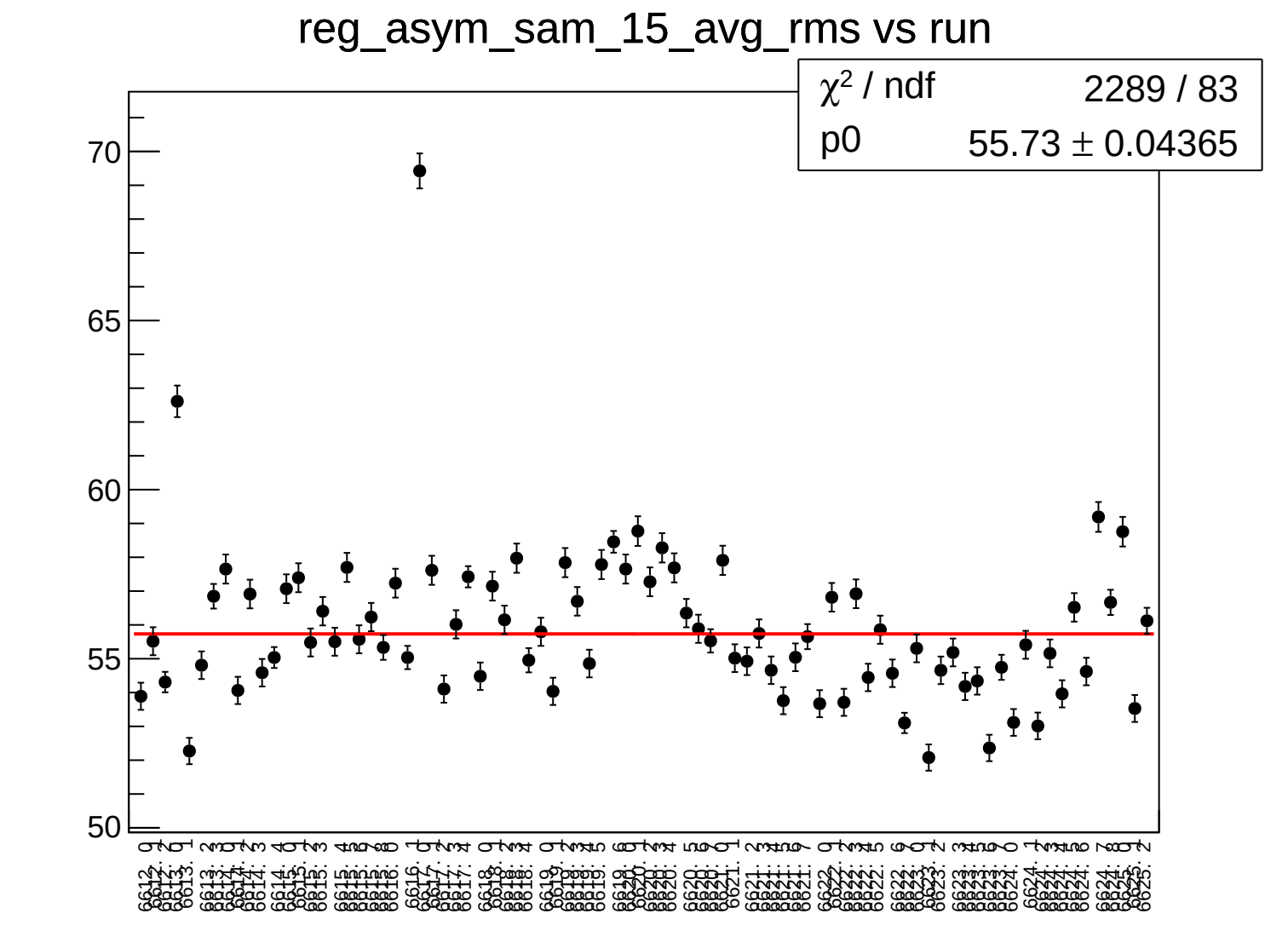

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.26 / 83
p0 5.997e−15 ± 7.532e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 84
Mean −124
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

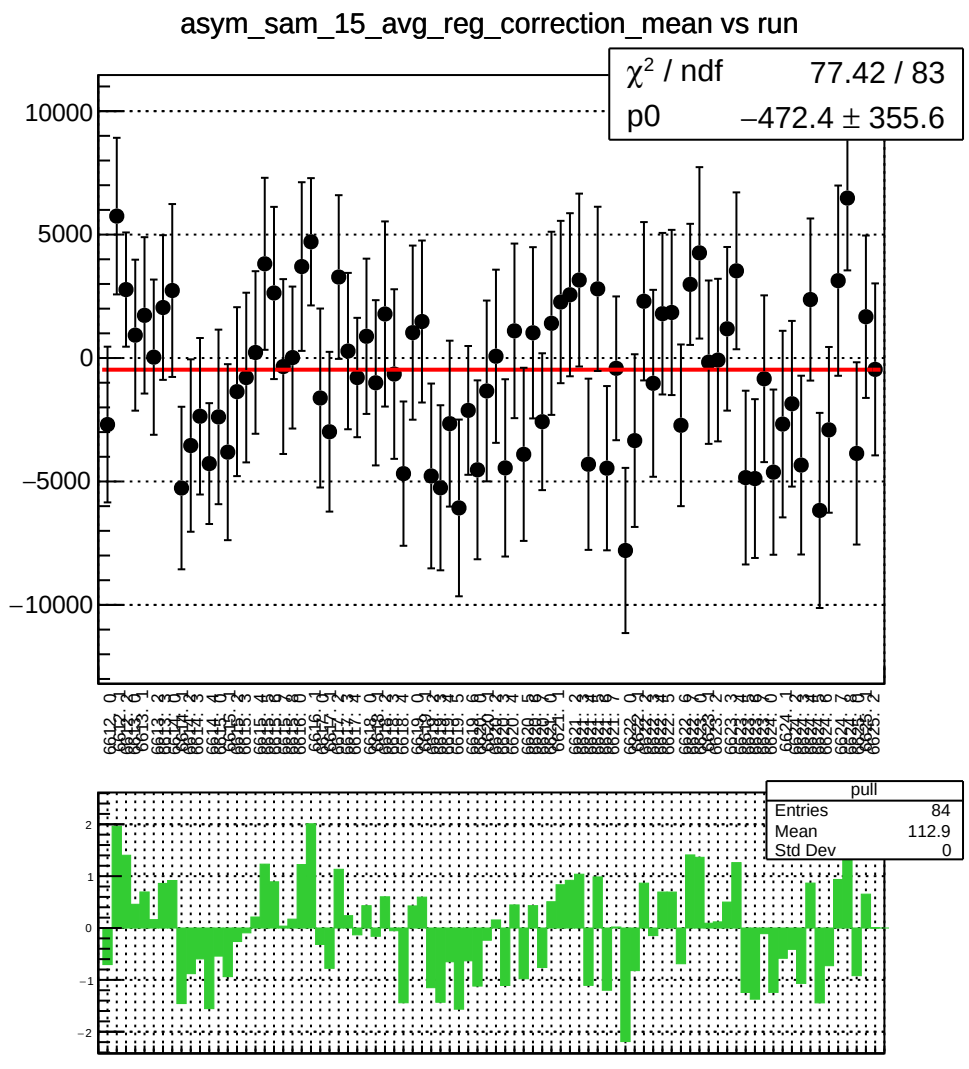

pull1D
Entries 84
Mean 0.01931
Std Dev 0.9079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

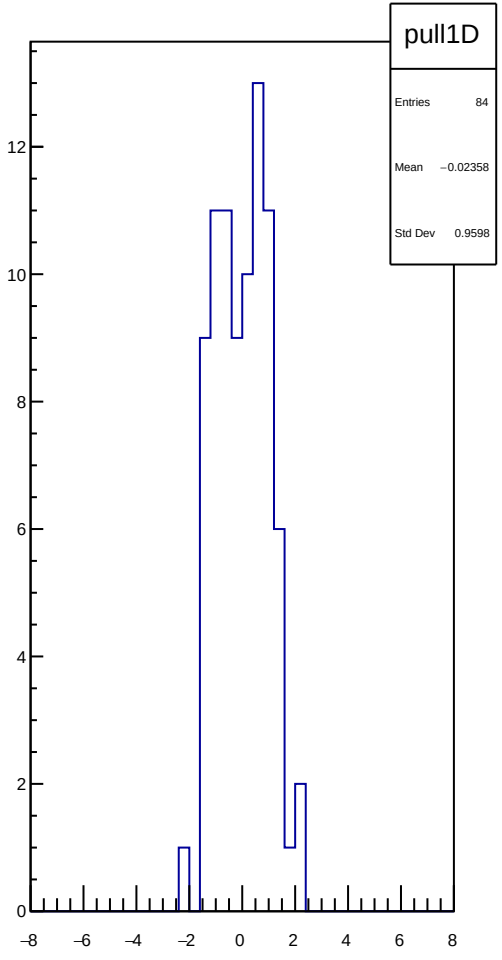

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.567e+05 / 83
p0 5.524e−12 ± 5.326e−15
30
25
20
15
10
5

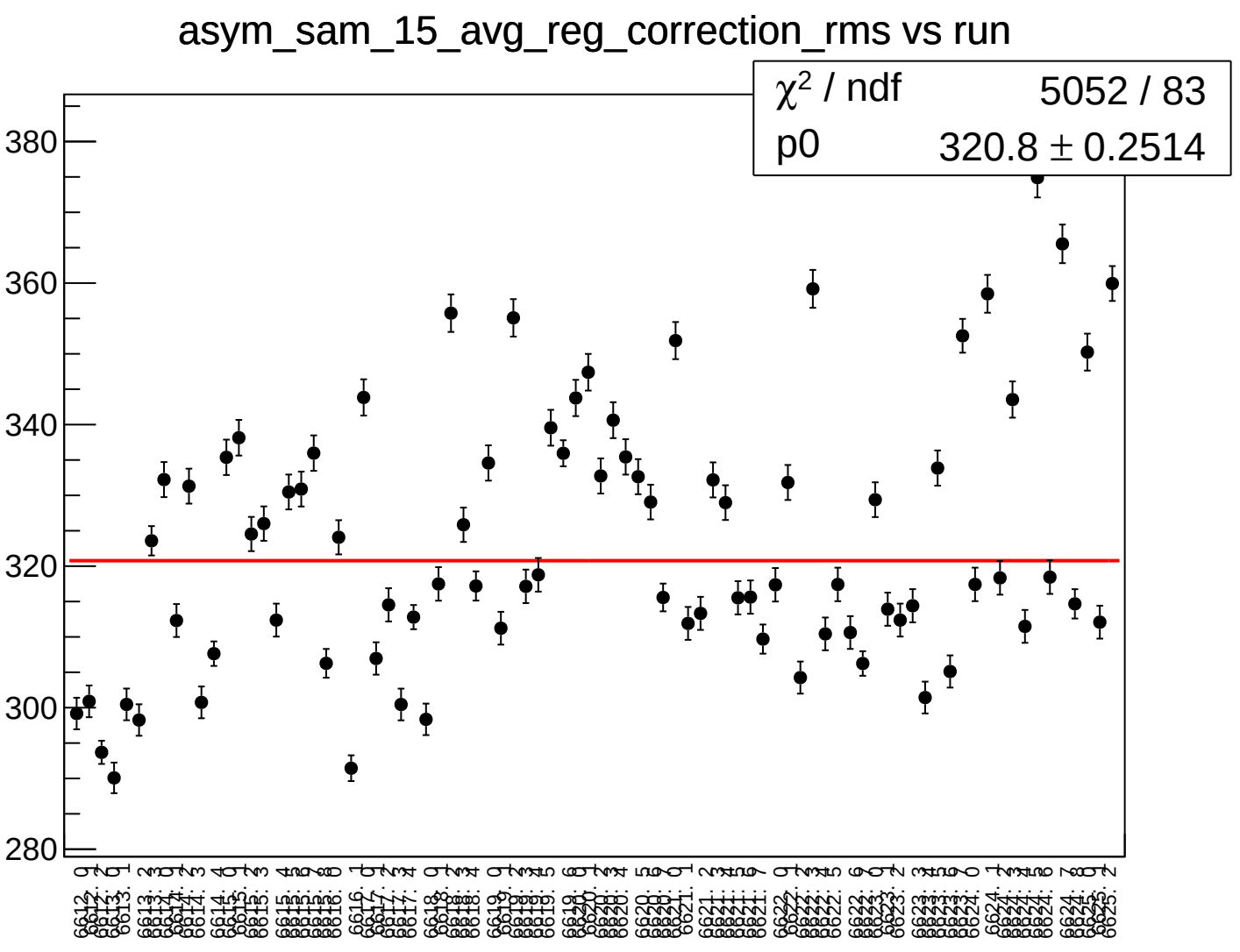

reg_asym_sam_15_avg_mean vs run
χ² / ndf 73.56 / 83
p0 21.53 ± 61.73
pull
Entries 84
Mean −33.27
Std Dev 0

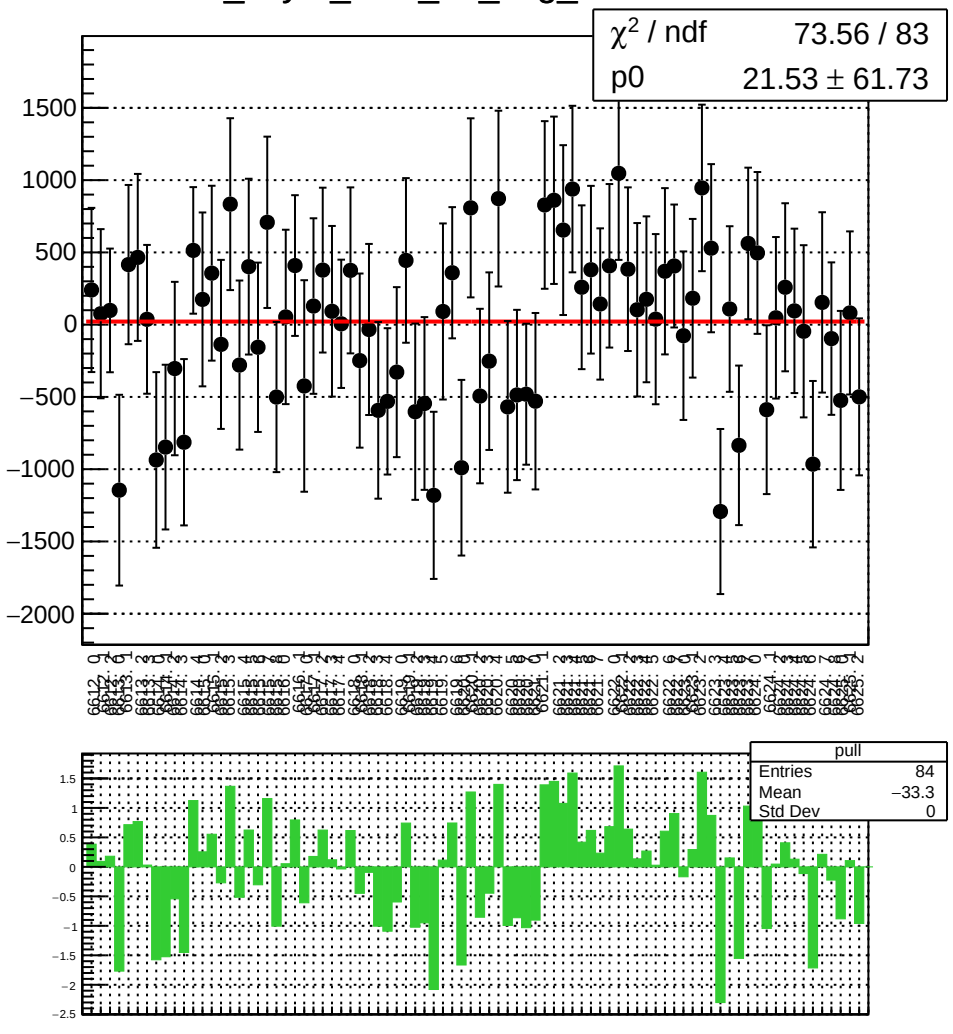

pull1D
Entries 84
Mean −0.01461
Std Dev 0.9357

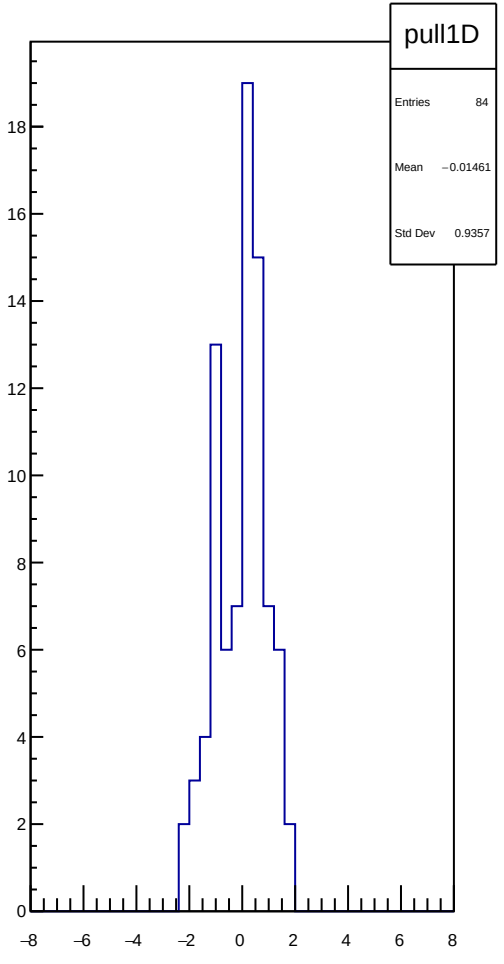

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 2289 / 83
p0 55.73 ± 0.04365
70
65
60
55
50

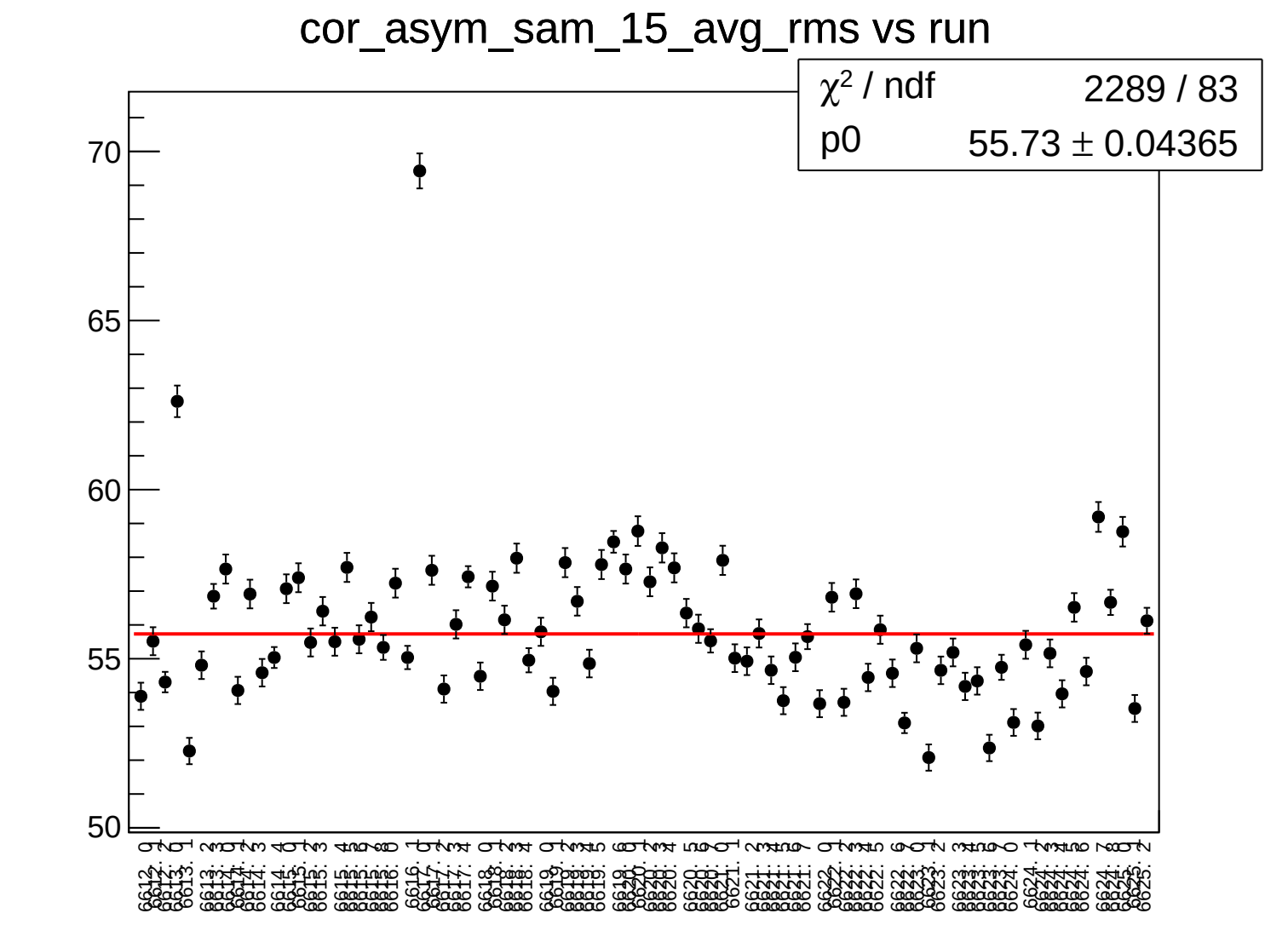

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 77.42 / 83
p0 −472.4 ± 355.6
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 112.9
Std Dev 0
2
1
0
−1
−2

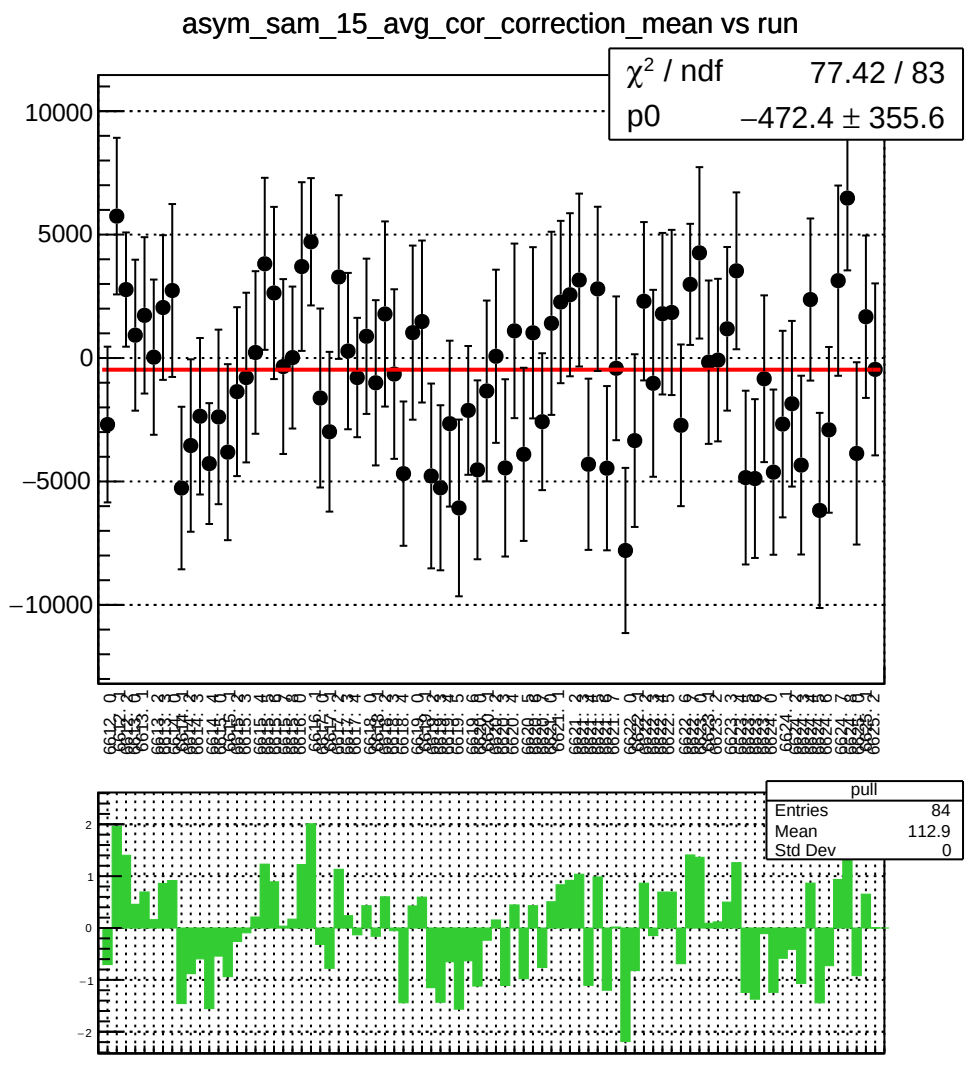

pull1D
Entries 84
Mean −0.02358
Std Dev 0.9598
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

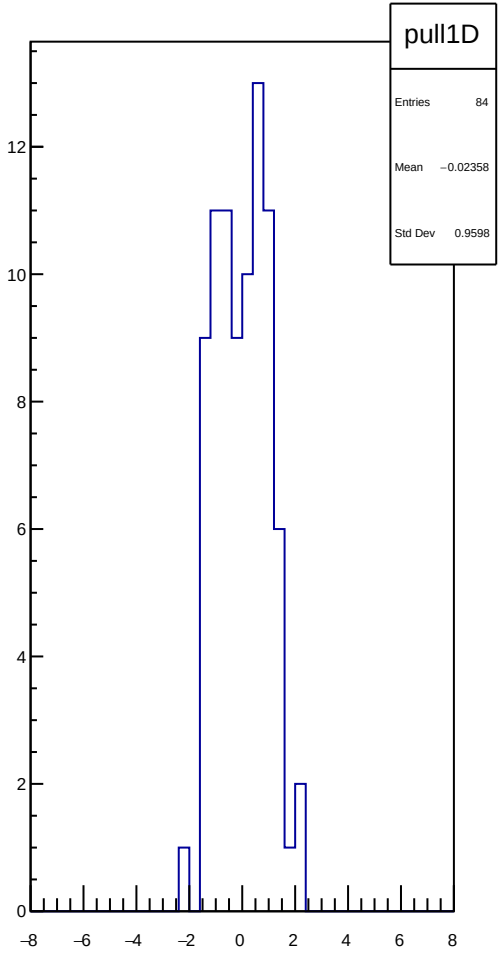

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 5052 / 83
p0 320.8 ± 0.2514
380
360
340
320
300
280

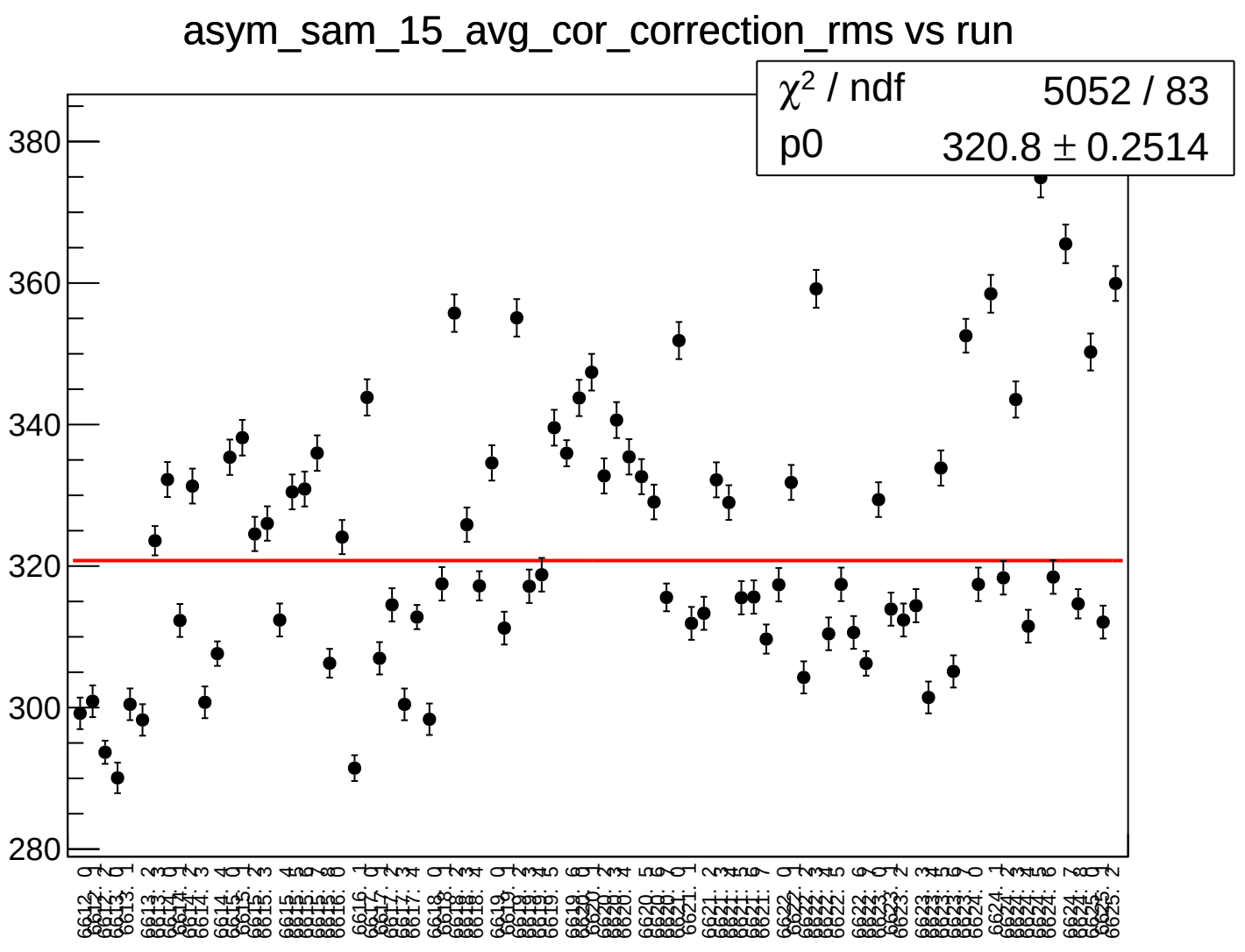

cor_asym_sam_15_avg_mean vs run
χ² / ndf 73.56 / 83
p0 21.53 ± 61.73
pull
Entries 84
Mean −33.3
Std Dev 0

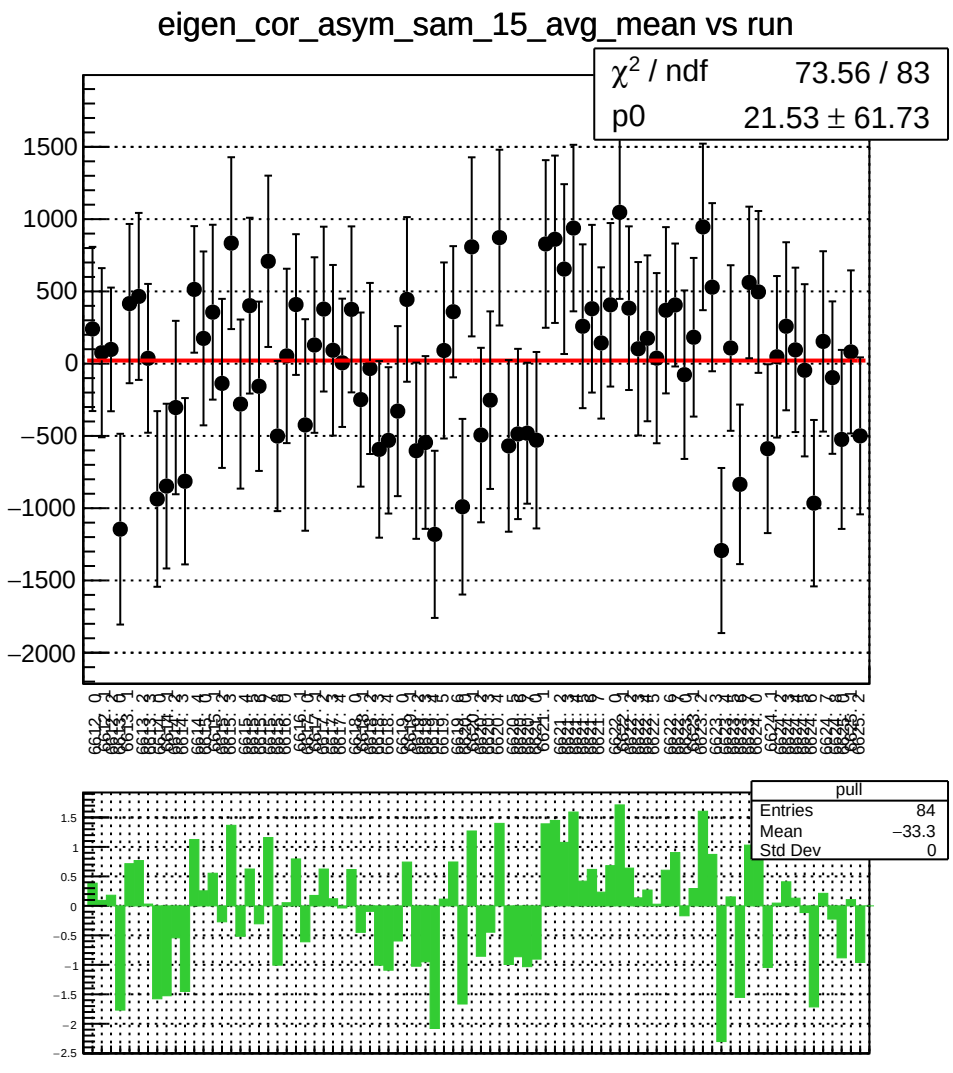

pull1D
Entries 84
Mean −0.01461
Std Dev 0.9357

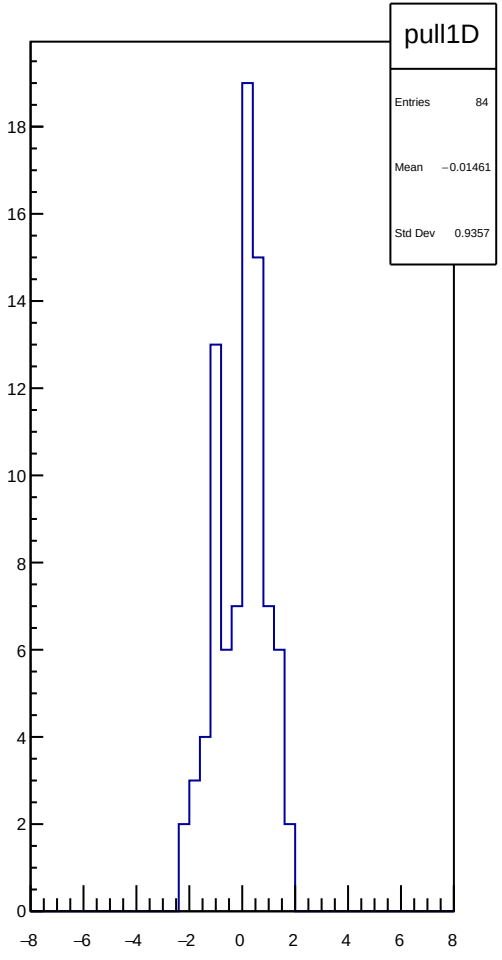

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 2289 / 83
p0 55.73 ± 0.04365
70
65
60
55
50

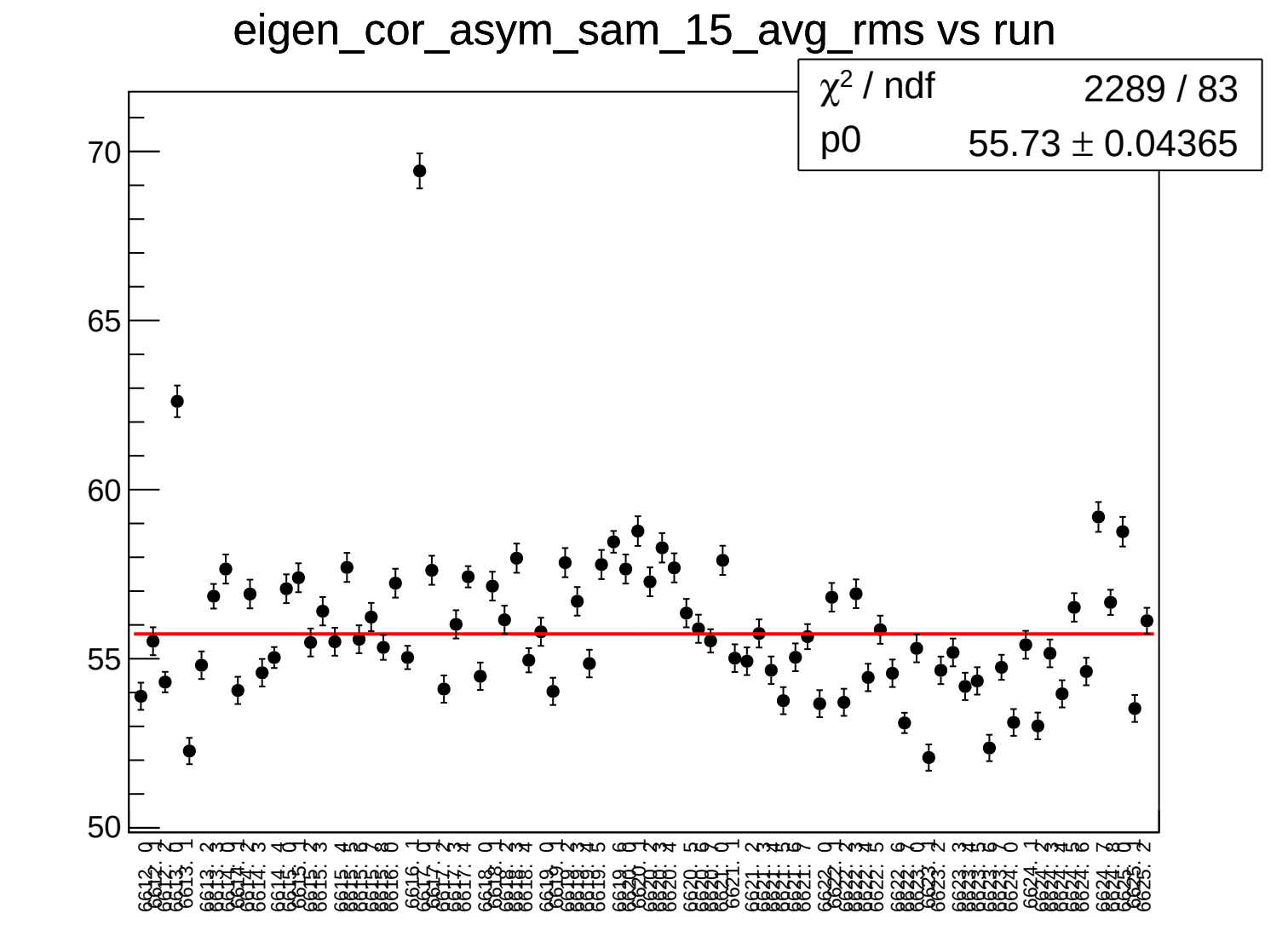

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 77.42 / 83
p0 −472.4 ± 355.6
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 112.9
Std Dev 0
2
1
0
−1
−2

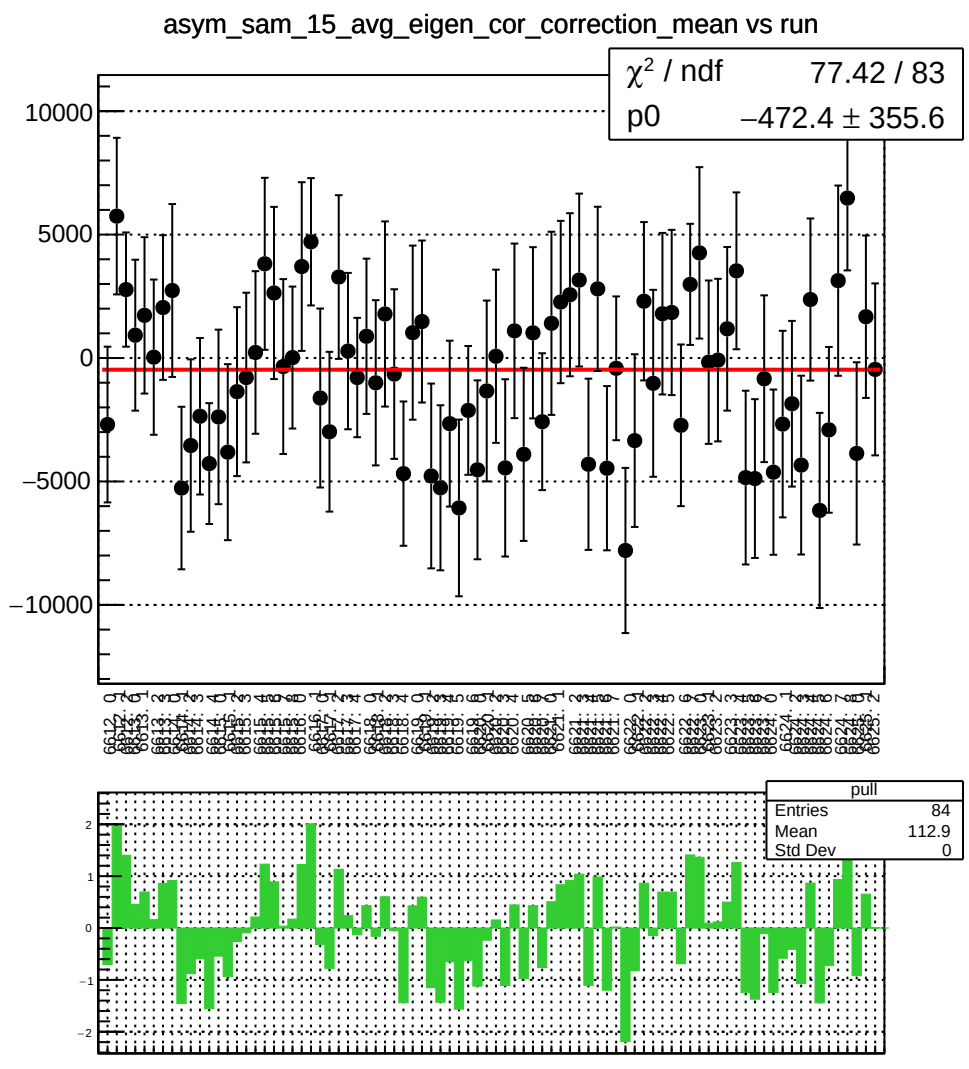

pull1D
Entries 84
Mean −0.02358
Std Dev 0.9598
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

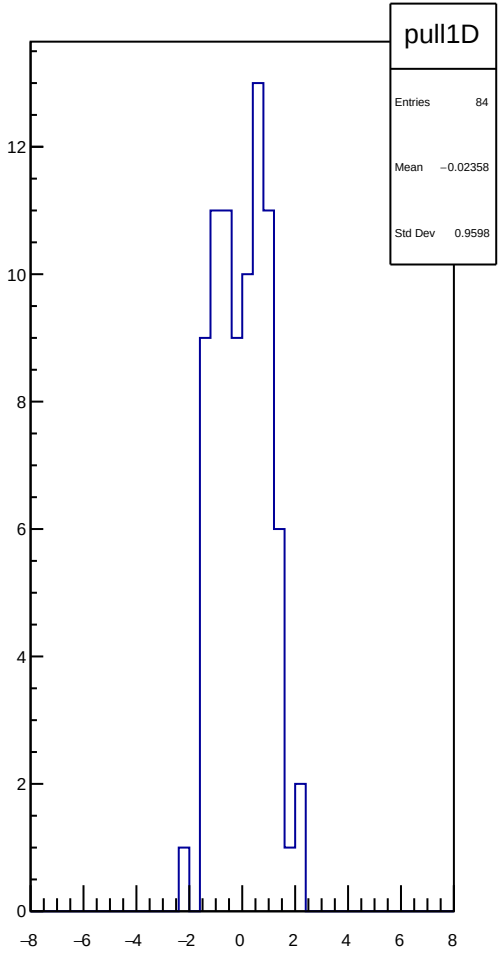

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 5052 / 83
p0 320.8 ± 0.2514
380
360
340
320
300
280

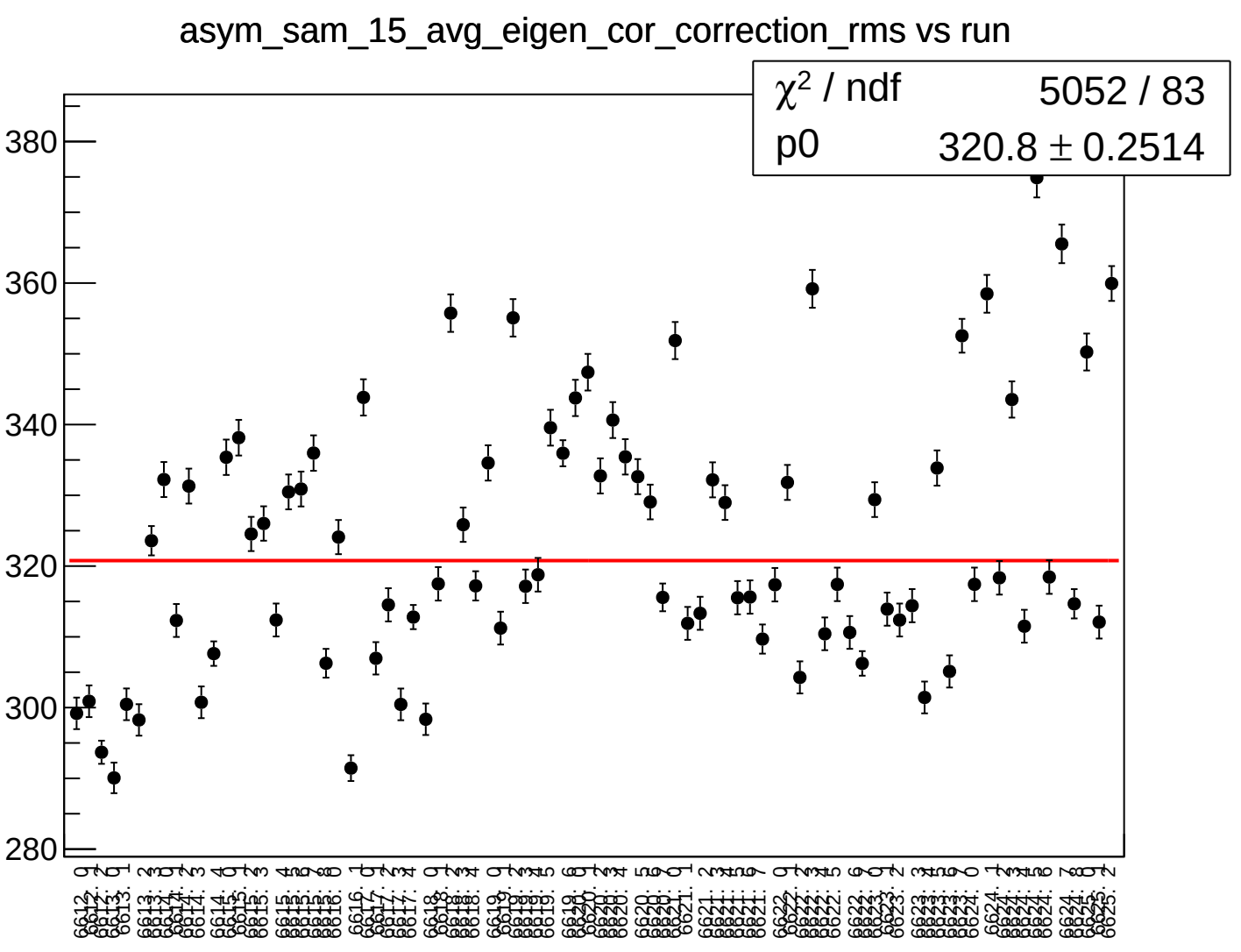

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 73.56 / 83
p0 21.53 ± 61.73
pull
Entries 84
Mean −33.3
Std Dev 0

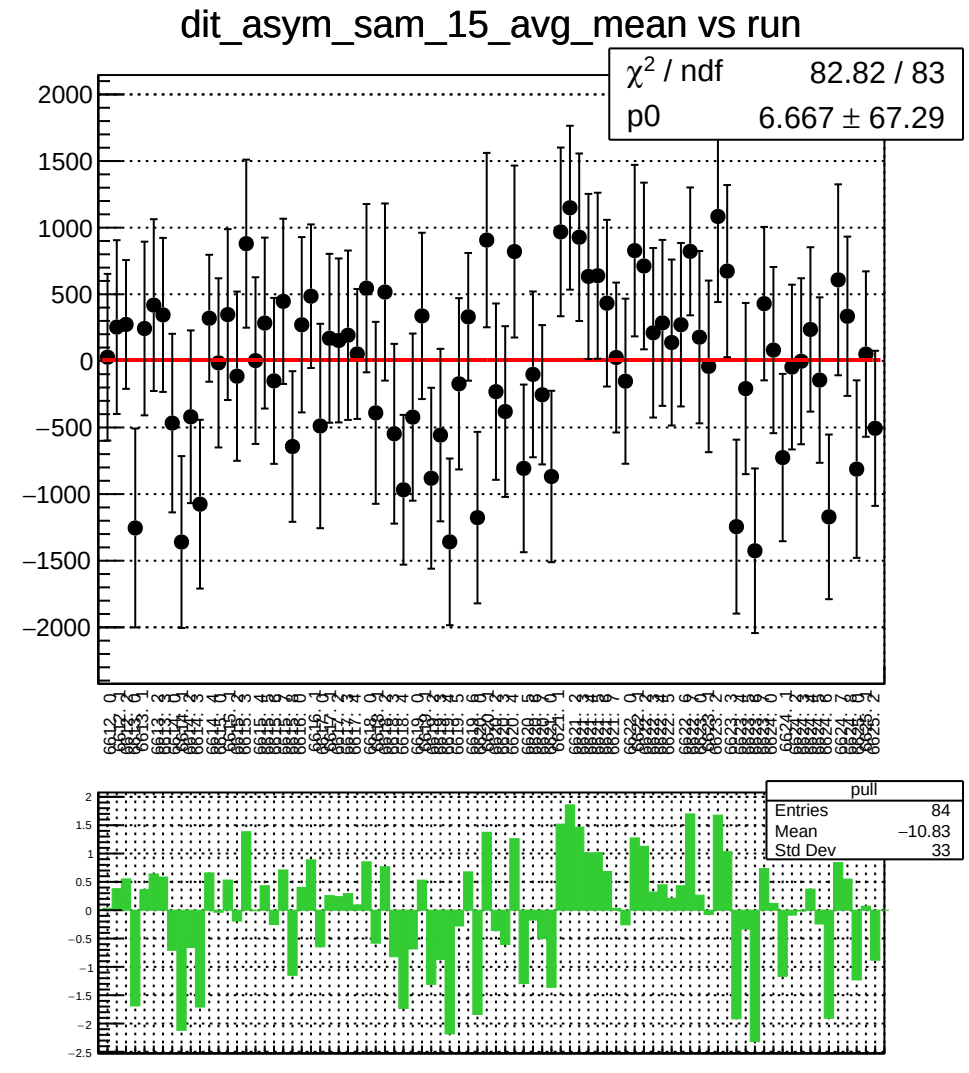

pull1D
Entries 84
Mean −0.01461
Std Dev 0.9357

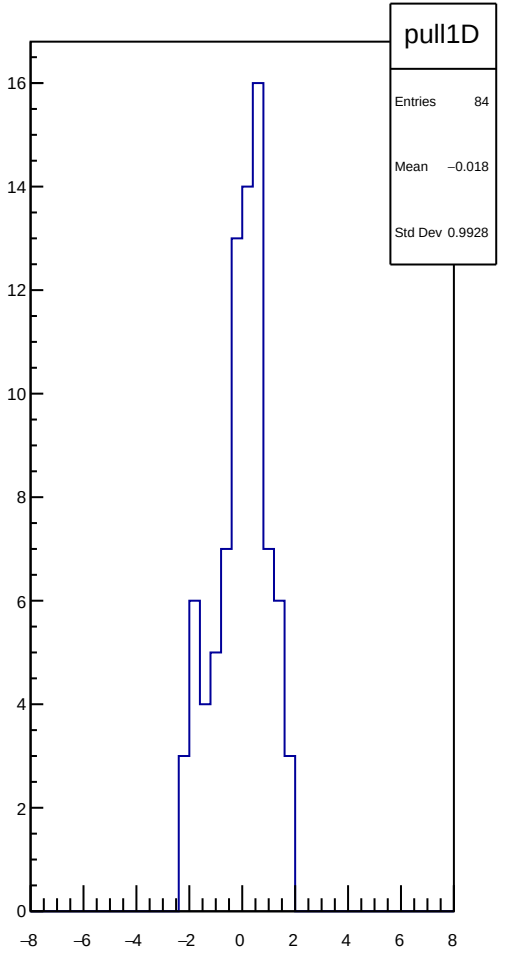

eigen_cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 2289 / 83
p0 55.73 ± 0.04365
70
65
60
55
50

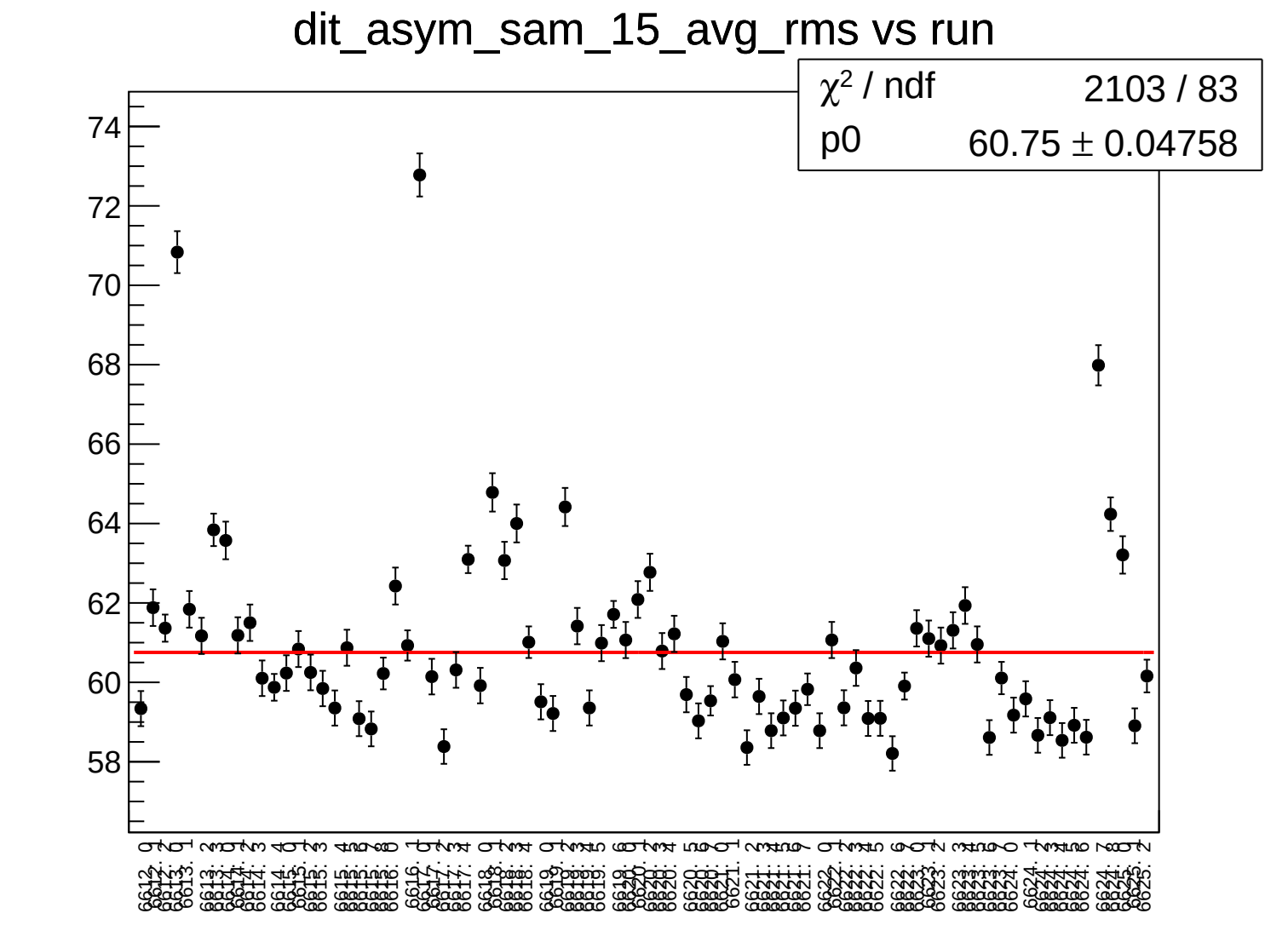

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 77.42 / 83
p0 −472.4 ± 355.6
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 112.9
Std Dev 0
2
1
0
−1
−2

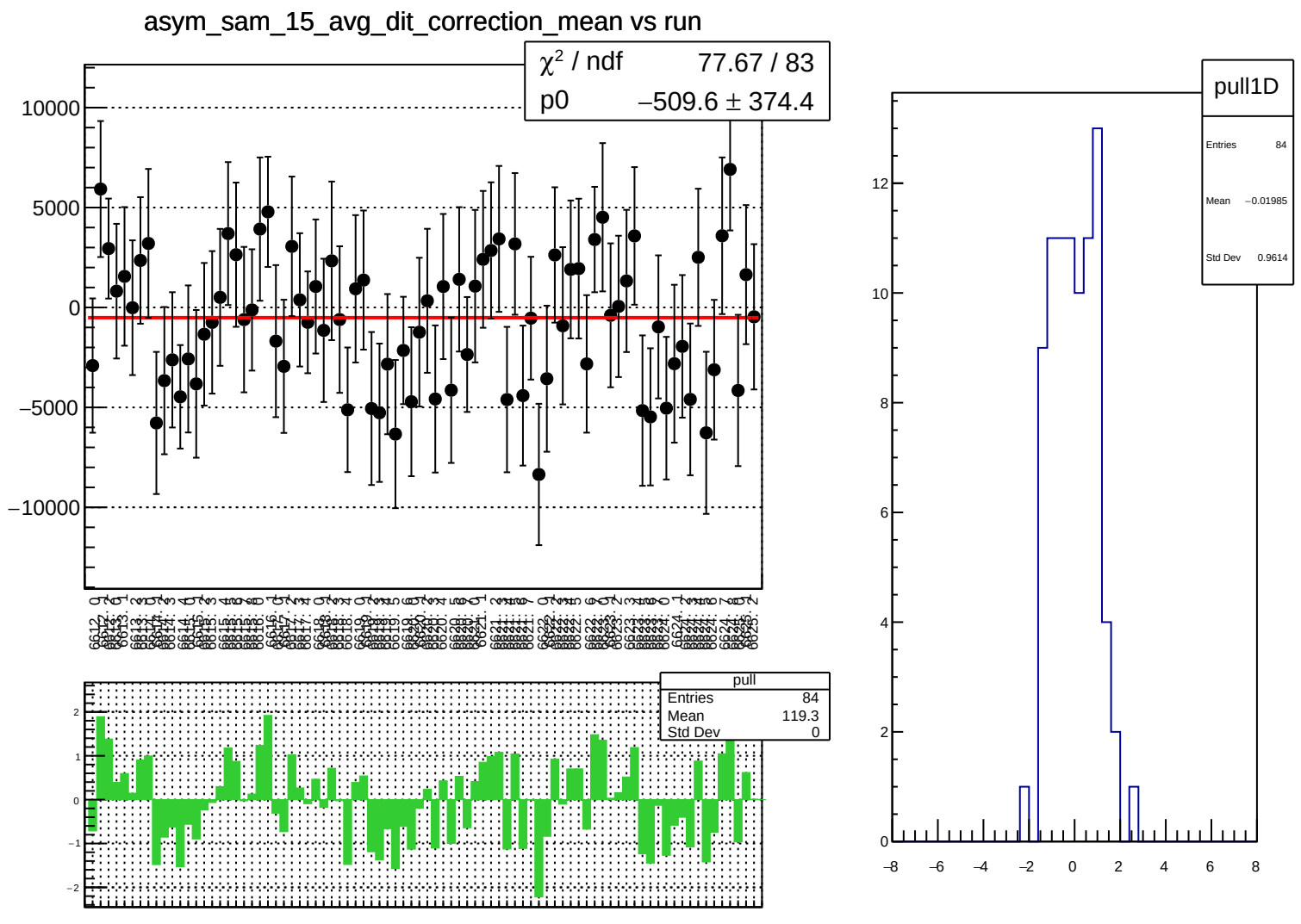

pull1D
Entries 84
Mean −0.02358
Std Dev 0.9598
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

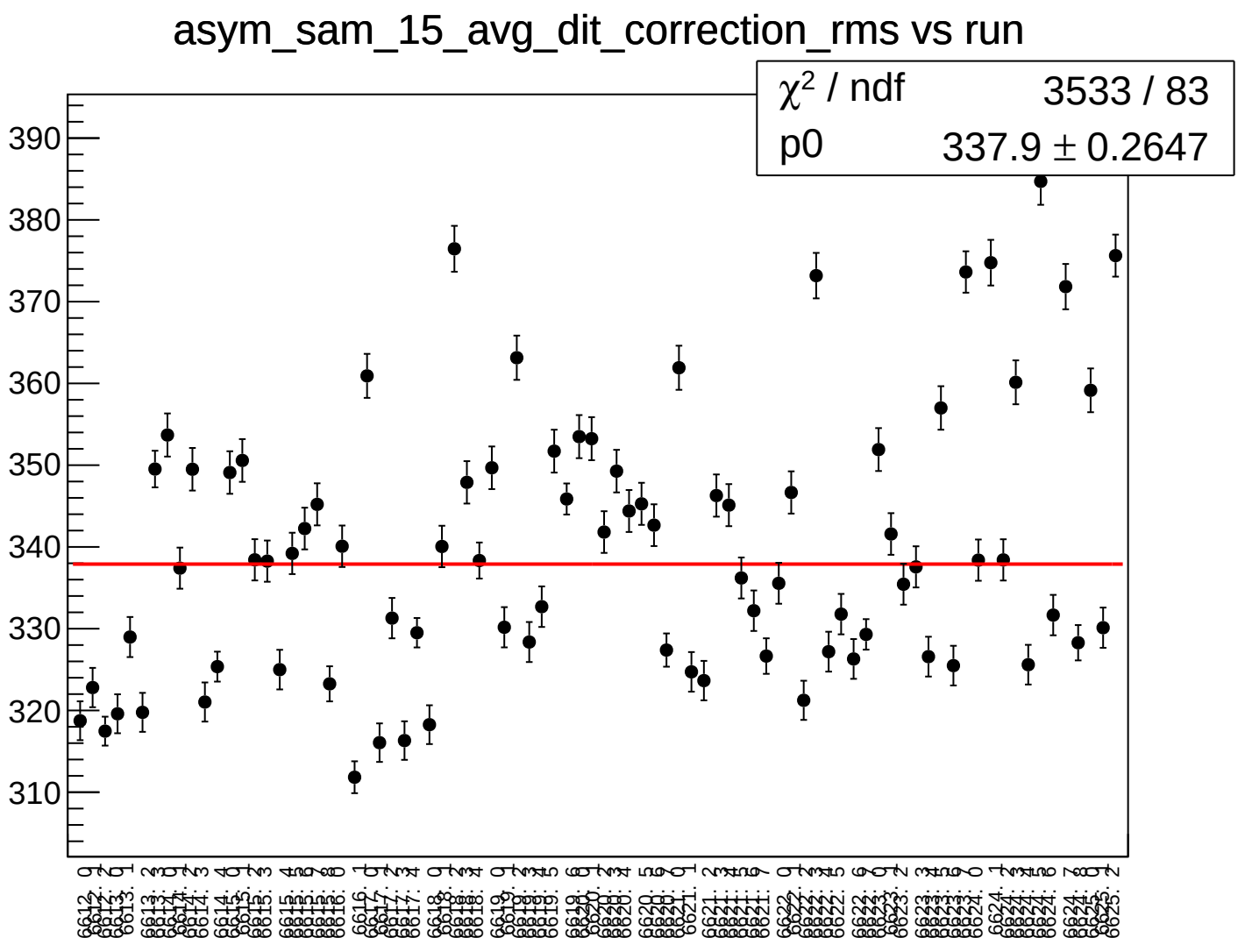

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 5052 / 83
p0 320.8 ± 0.2514
380
360
340
320
300
280

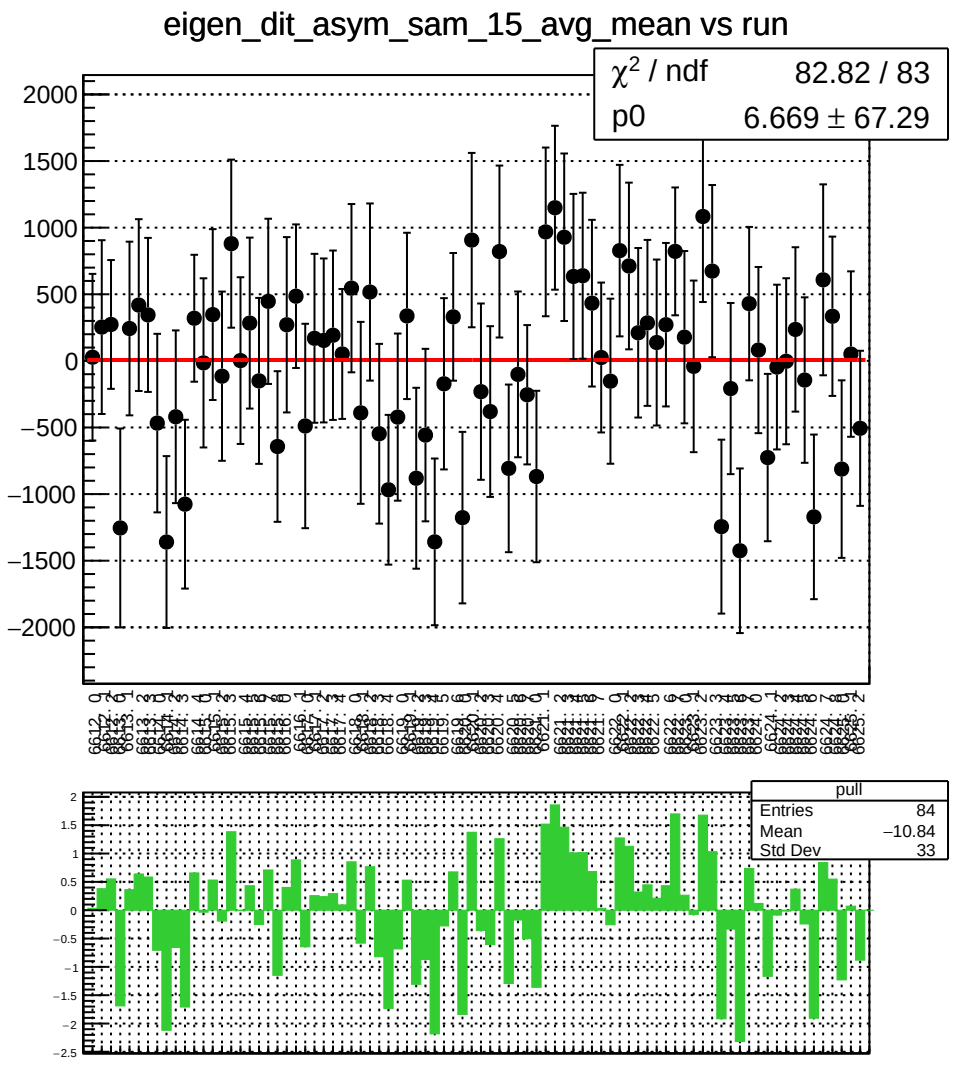

dit_asym_sam_15_avg_mean vs run
χ² / ndf 82.82 / 83
p0 6.667 ± 67.29
pull
Entries 84
Mean −10.83
Std Dev 33

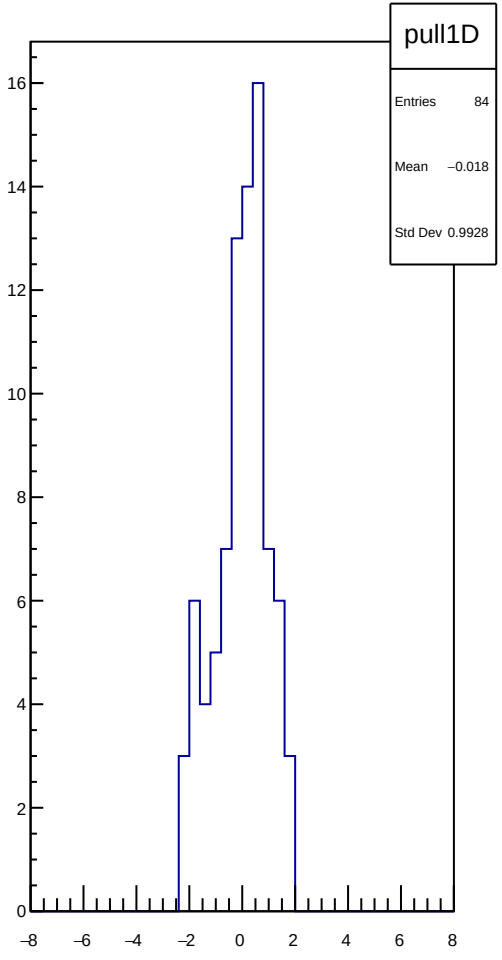

pull1D
Entries 84
Mean −0.018
Std Dev 0.9928

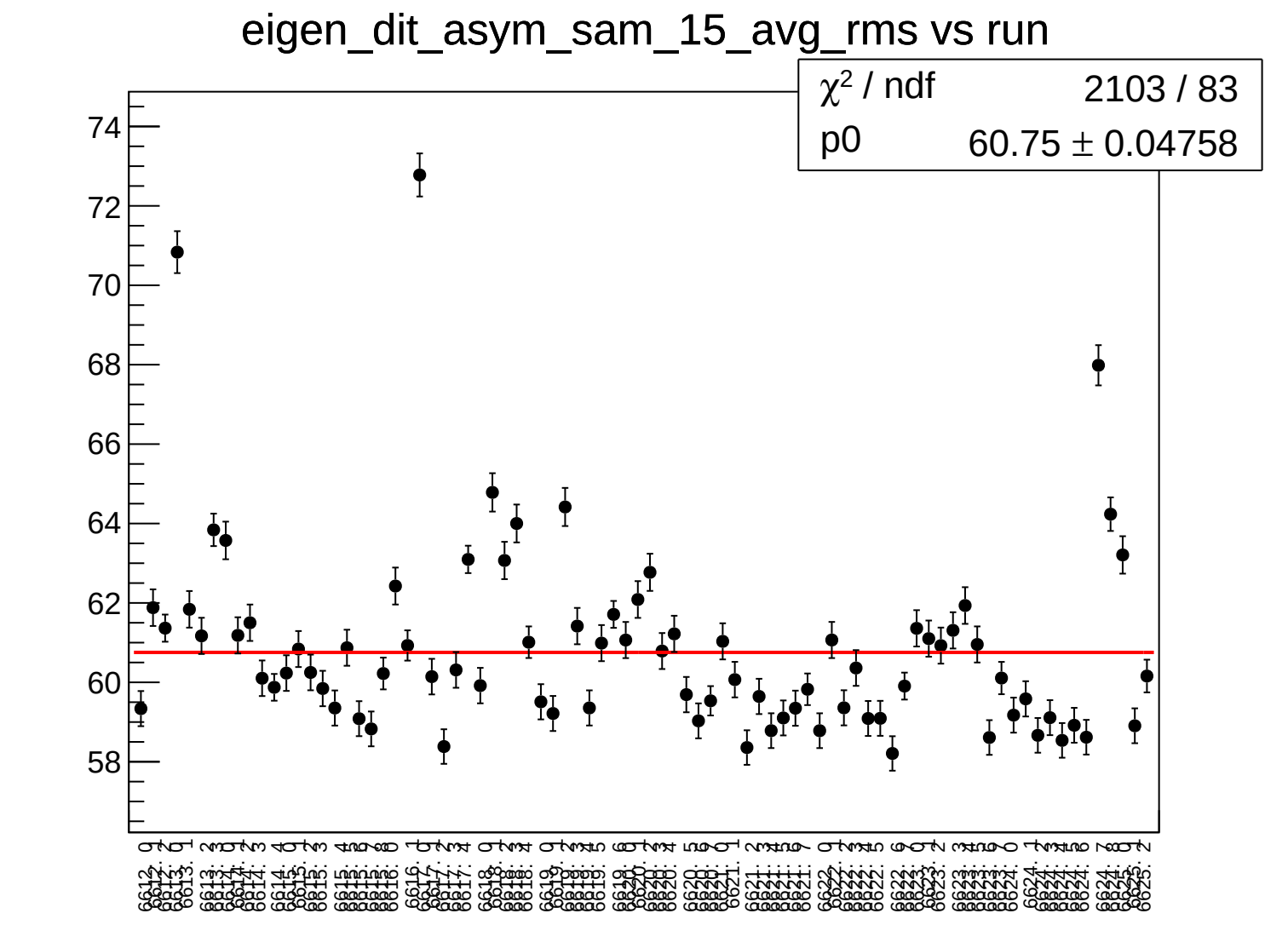

dit_asym_sam_15_avg_rms vs run
χ² / ndf 2103 / 83
p0 60.75 ± 0.04758
74
72
70
68
66
64
62
60
58

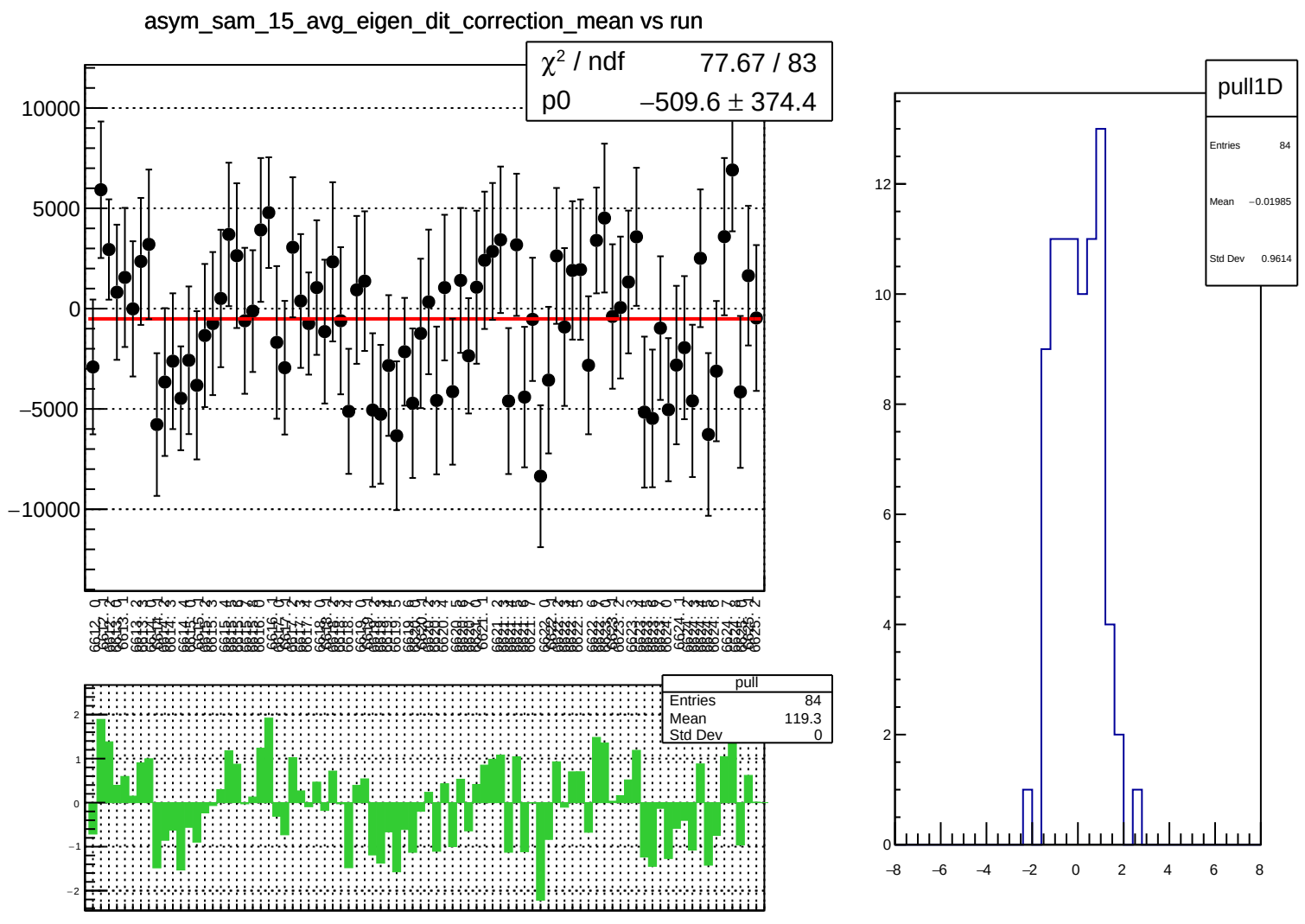

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 77.67 / 83
p0 −509.6 ± 374.4
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 119.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01985
Std Dev 0.9614
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

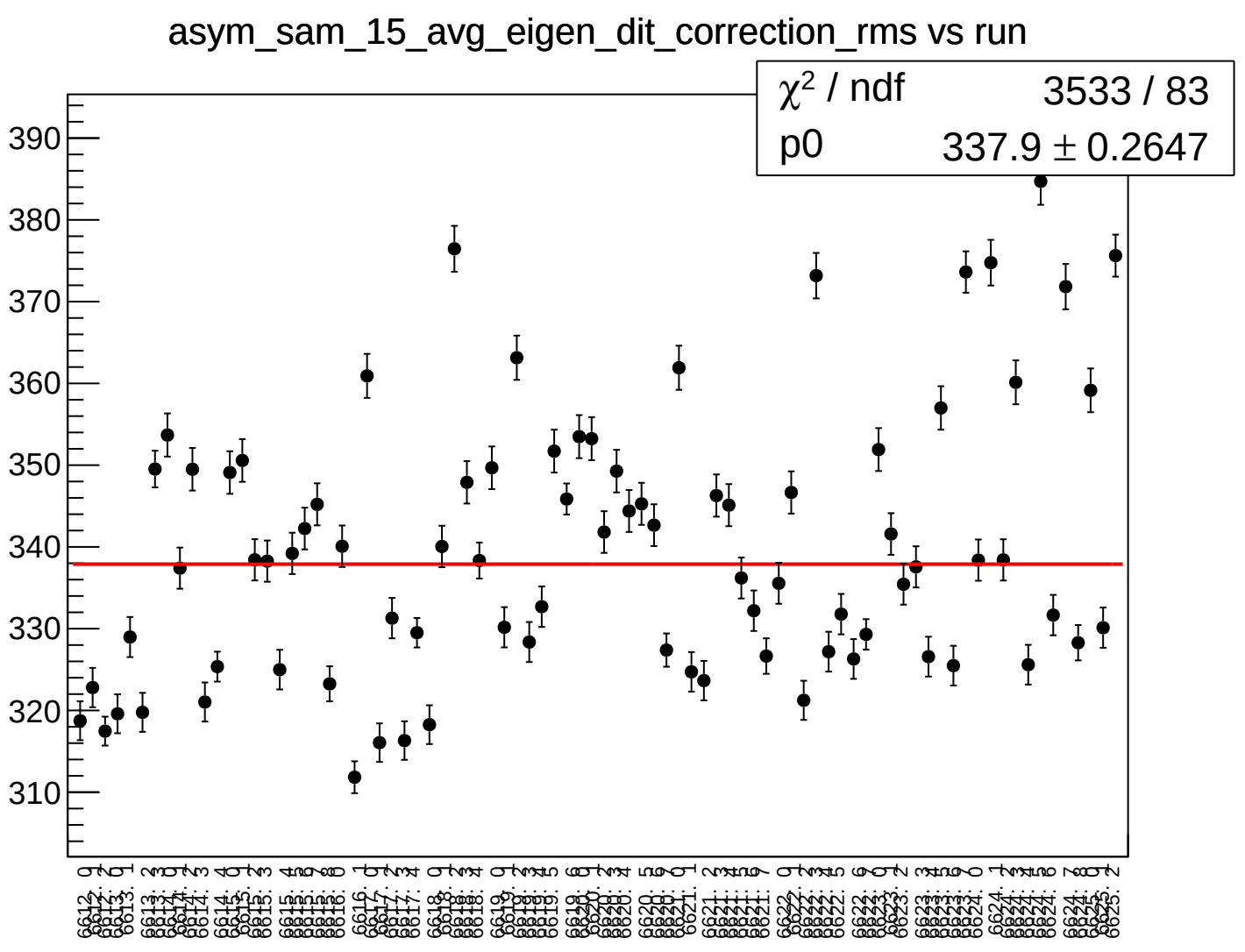

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 3533 / 83
p0 337.9 ± 0.2647
390
380
370
360
350
340
330
320
310

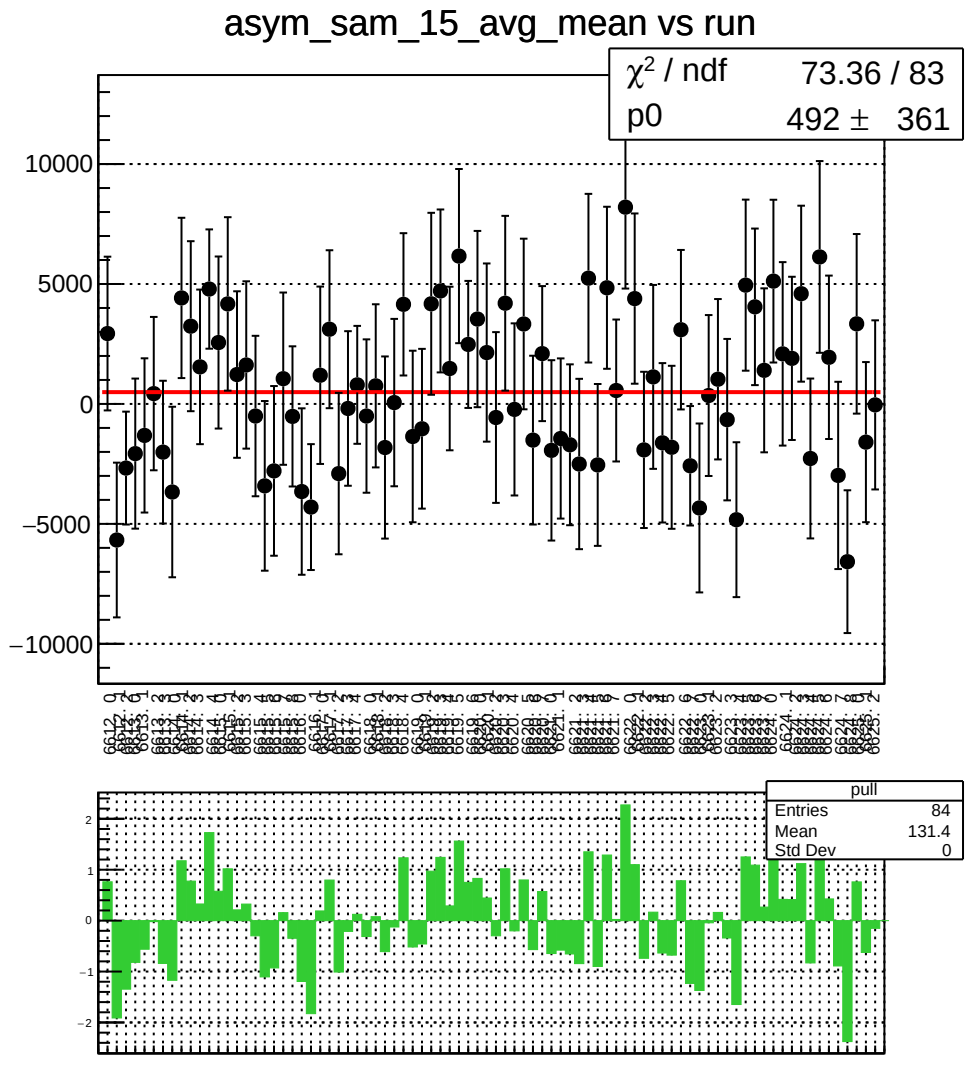

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 82.82 / 83
p0 6.669 ± 67.29
pull
Entries 84
Mean −10.84
Std Dev 33

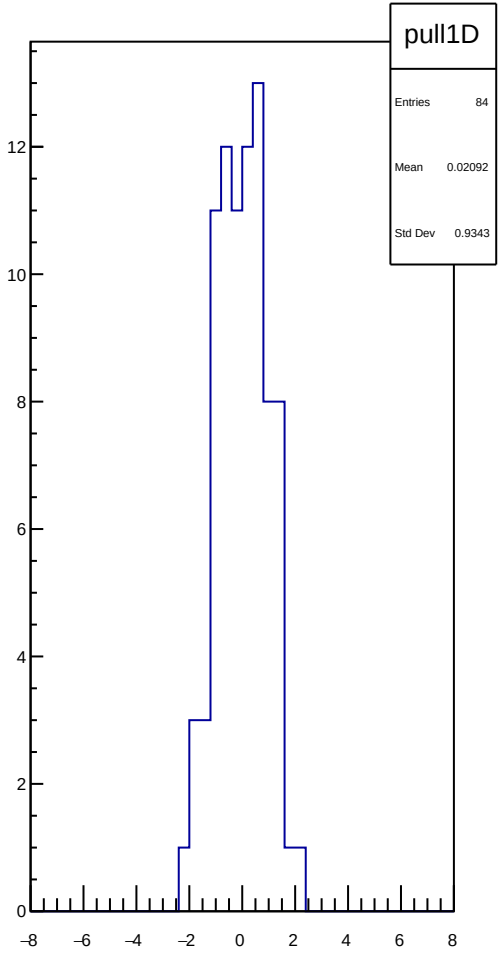

pull1D
Entries 84
Mean −0.018
Std Dev 0.9928

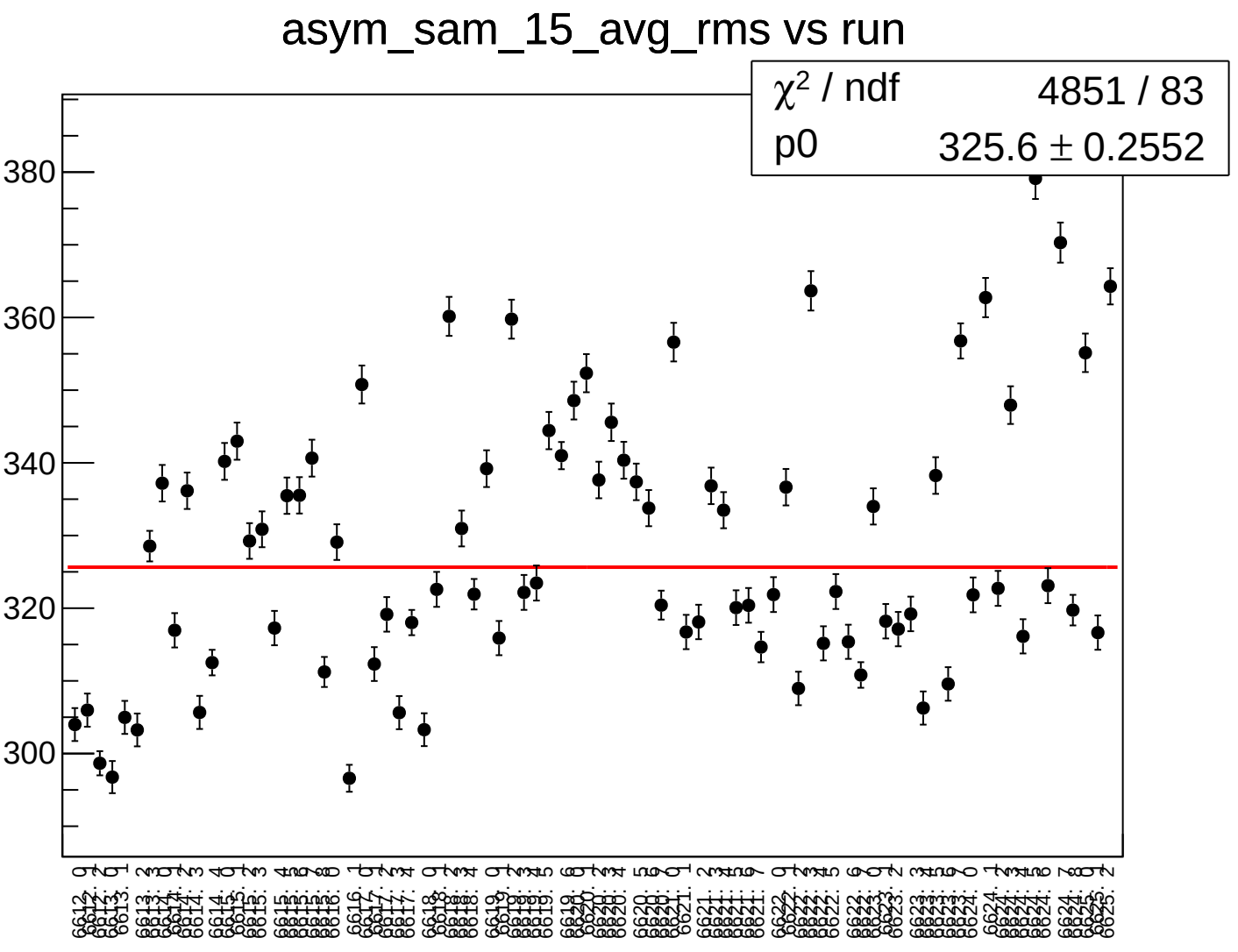

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 2103 / 83
p0 60.75 ± 0.04758
74
72
70
68
66
64
62
60
58

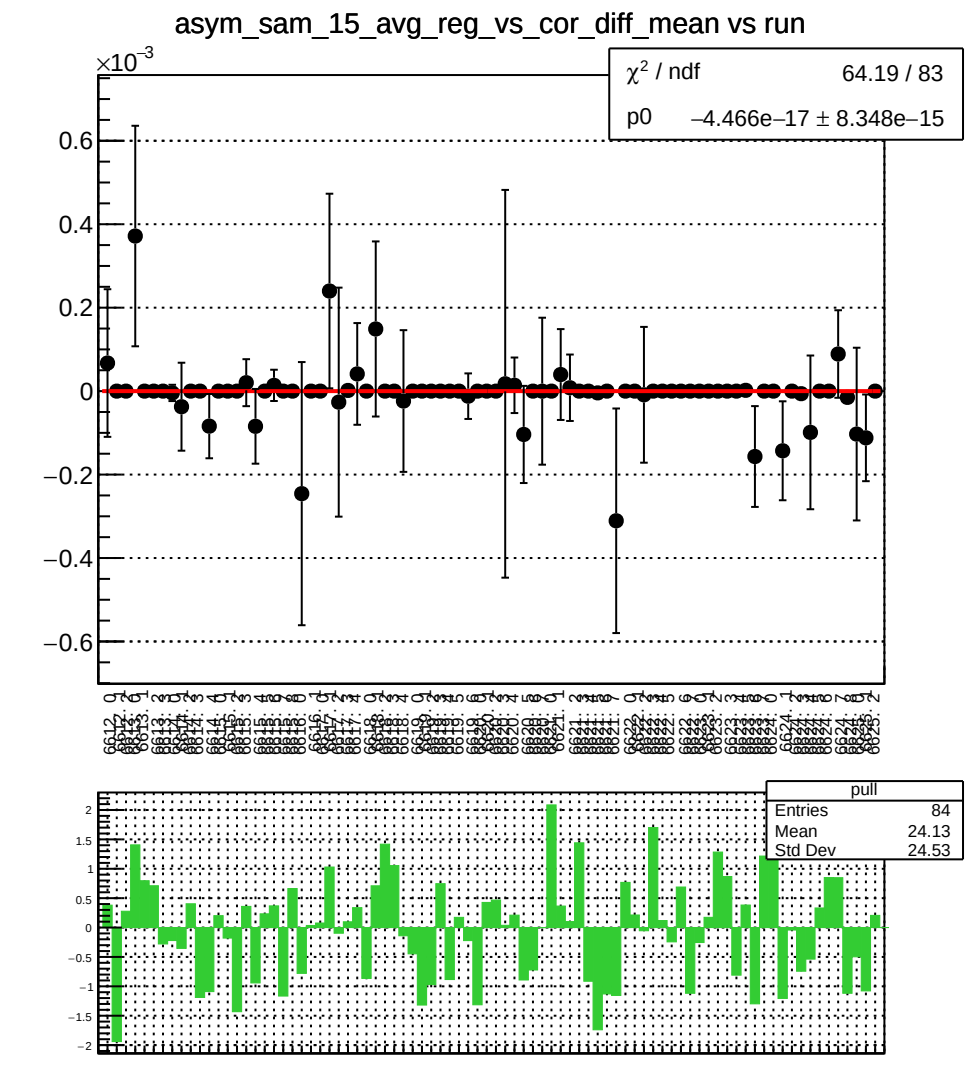

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.67 / 83
p0 −509.6 ± 374.4
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 119.3
Std Dev 0
pull1D
Entries 84
Mean −0.01985
Std Dev 0.9614

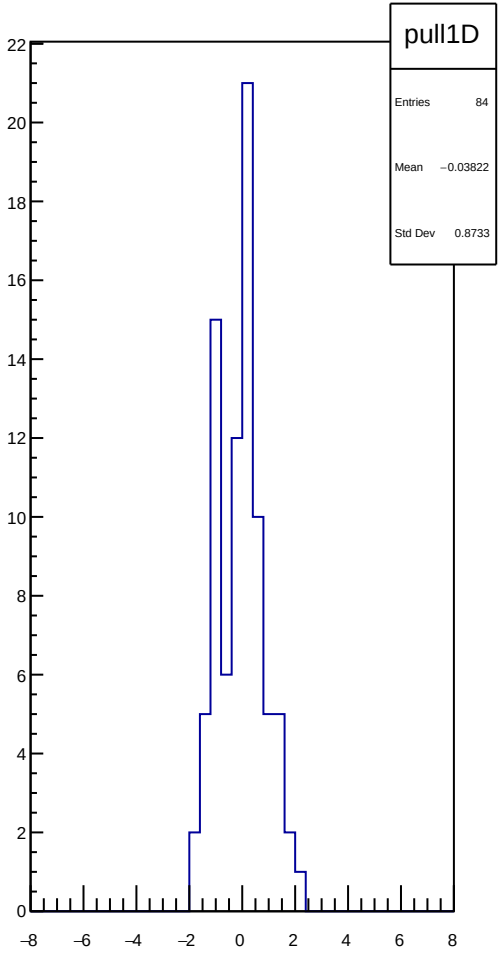

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 3533 / 83
p0 337.9 ± 0.2647
390
380
370
360
350
340
330
320
310

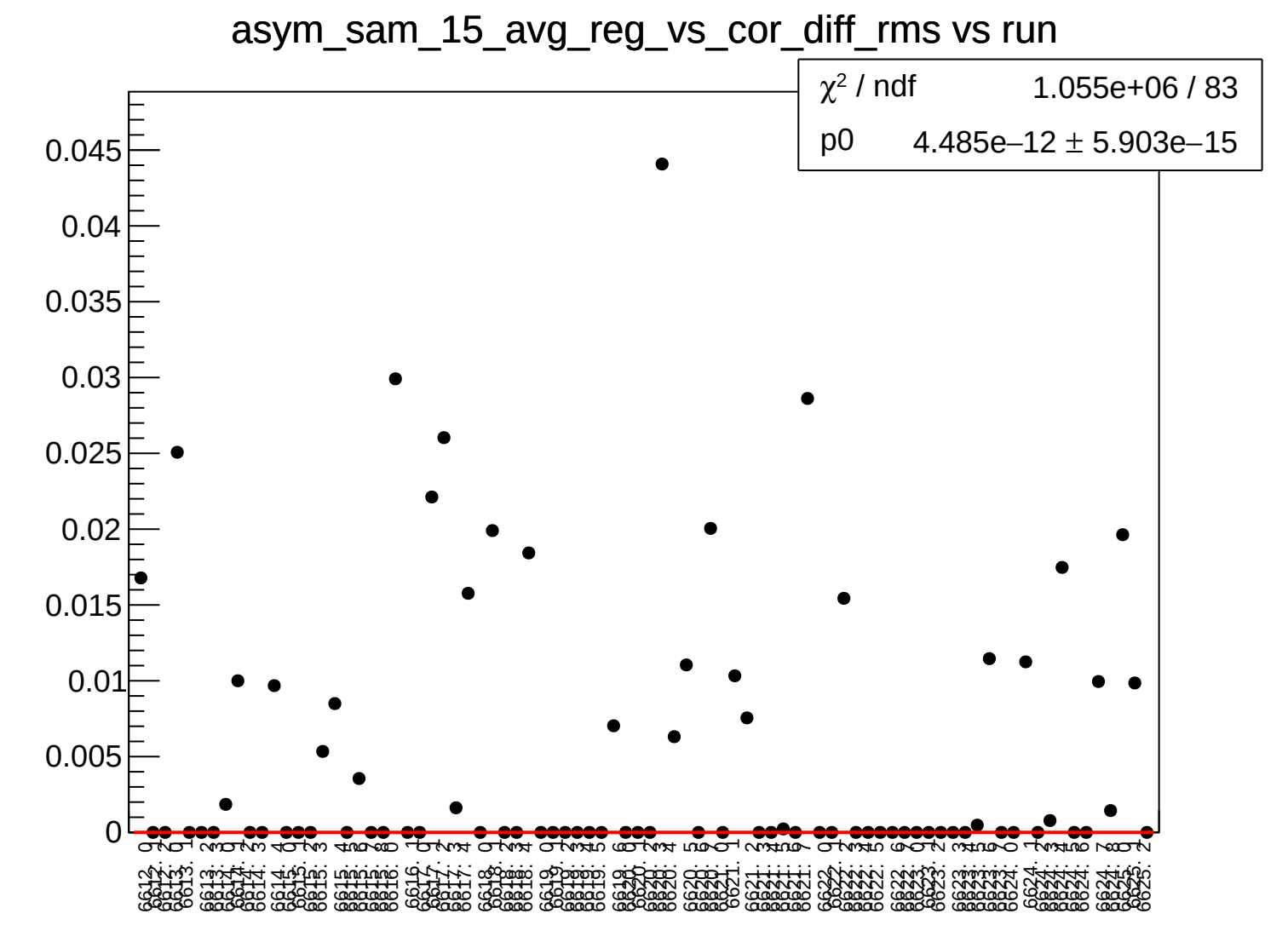

asym_sam_15_avg_mean vs run
χ² / ndf 73.36 / 83
p0 492 ± 361
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 131.4
Std Dev 0
2
1
0
−1
−2

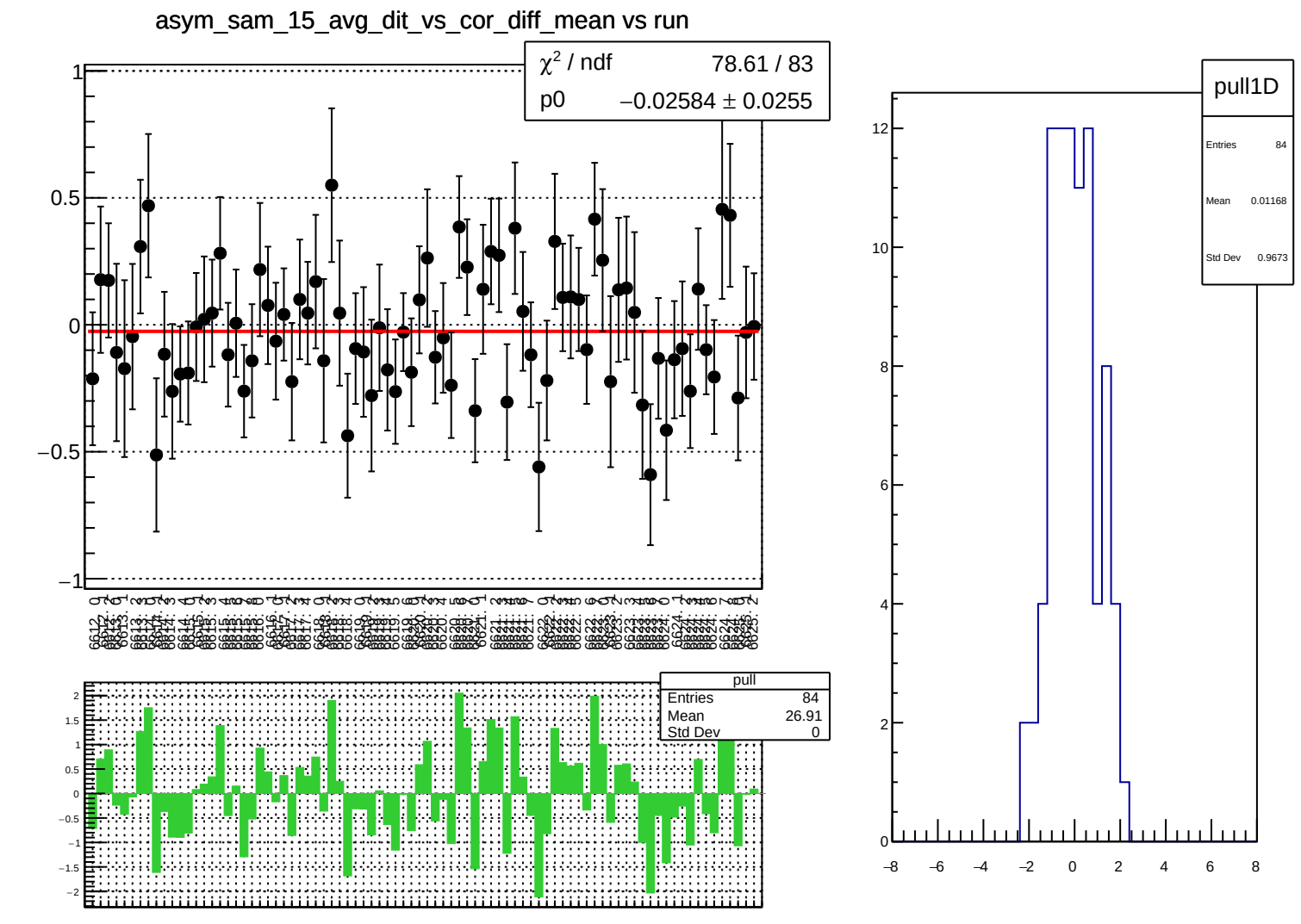

pull1D
Entries 84
Mean 0.02092
Std Dev 0.9343
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

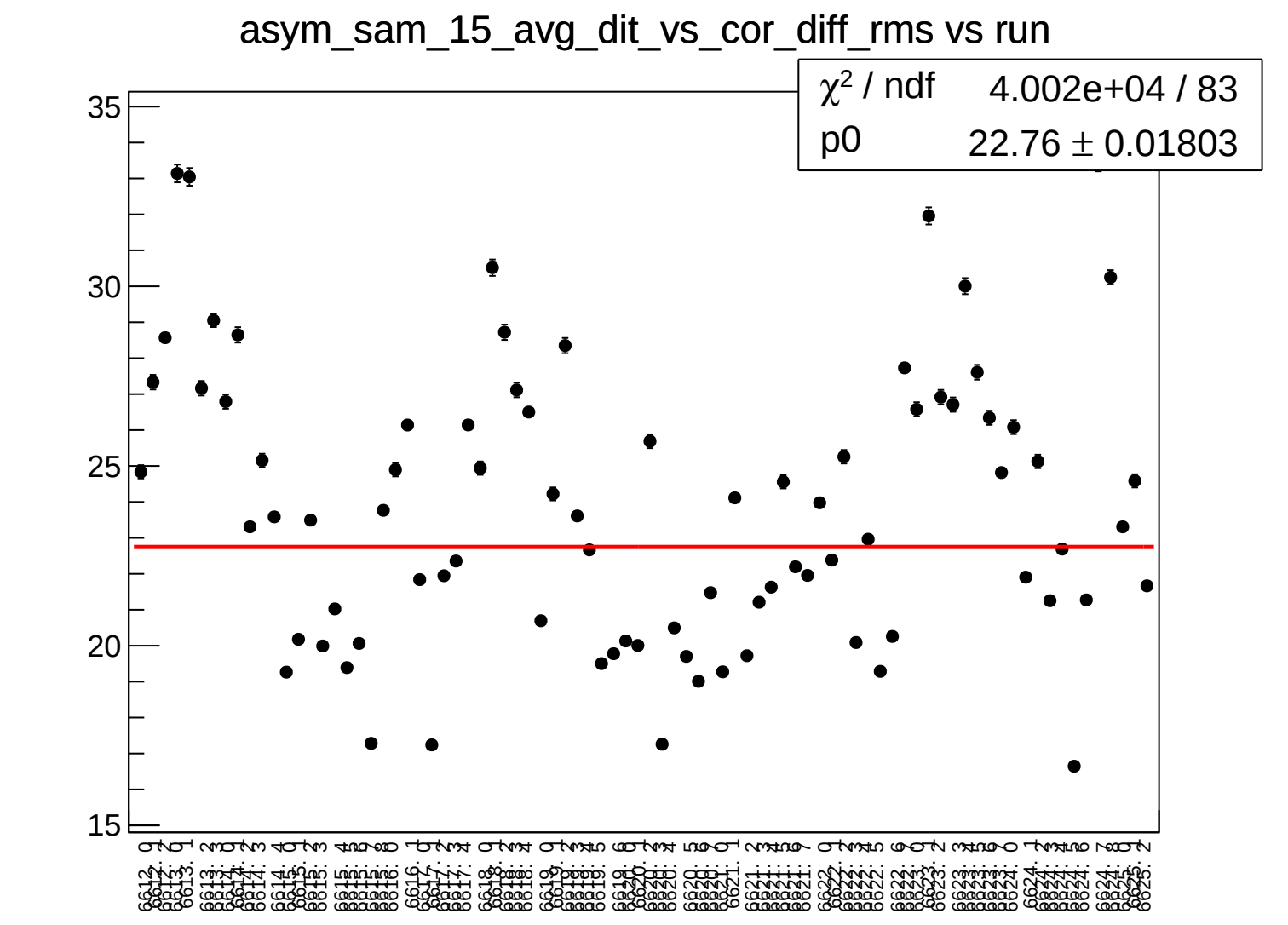

asym_sam_15_avg_rms vs run
χ² / ndf 4851 / 83
p0 325.6 ± 0.2552
380
360
340
320
300

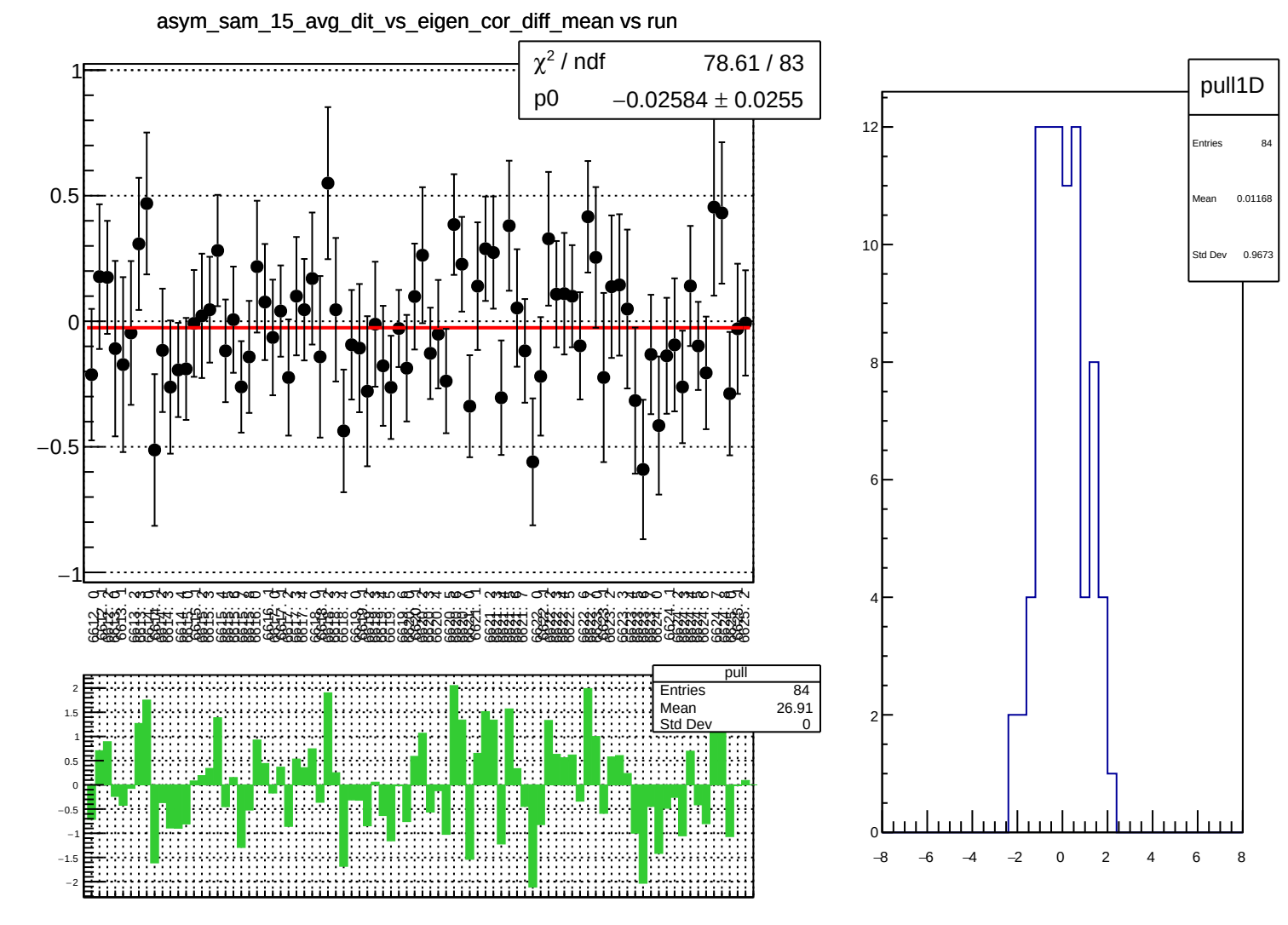

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 64.19 / 83
p0 −4.466e−17 ± 8.348e−15
pull
Entries 84
Mean 24.13
Std Dev 24.53

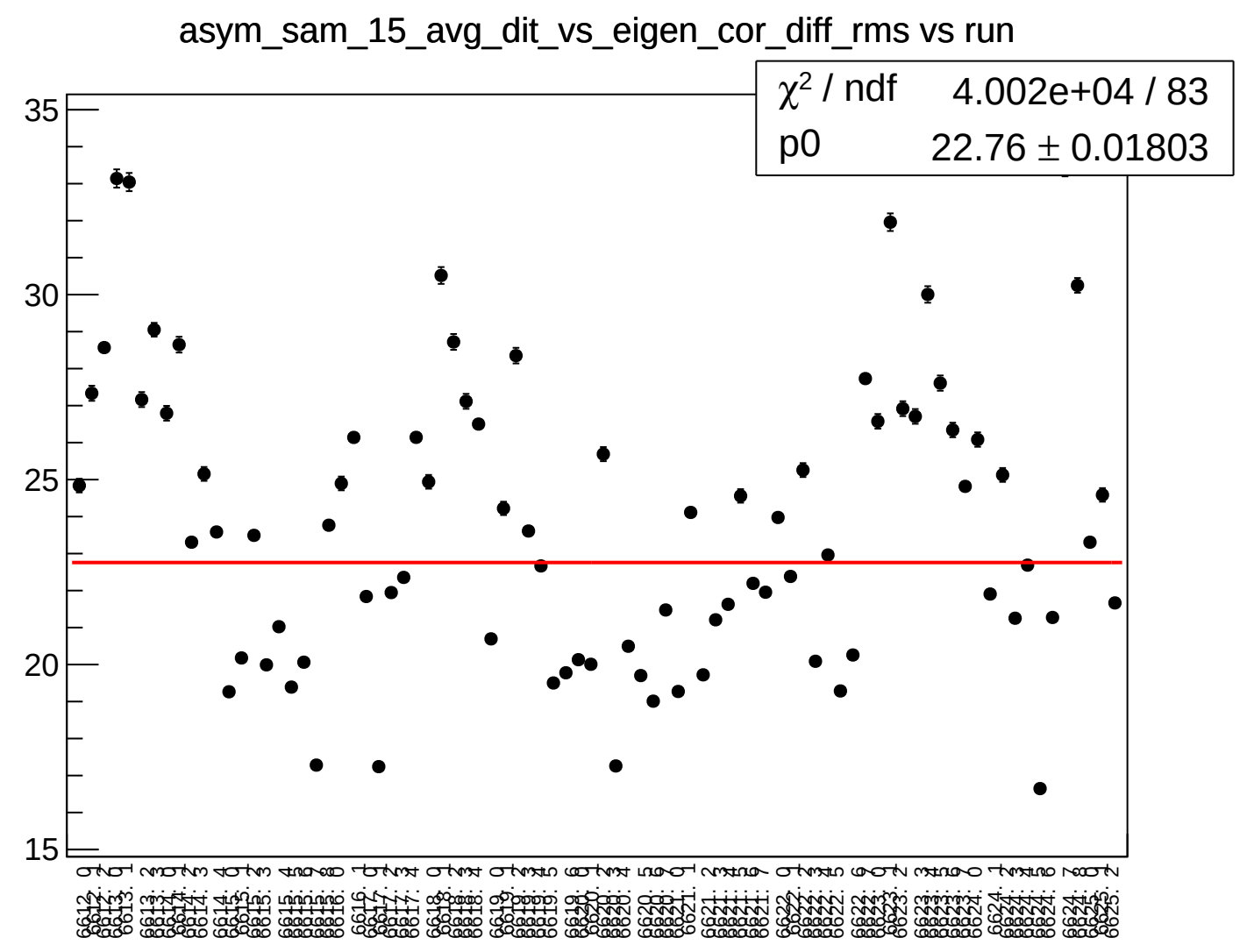

pull1D
Entries 84
Mean −0.03822
Std Dev 0.8733

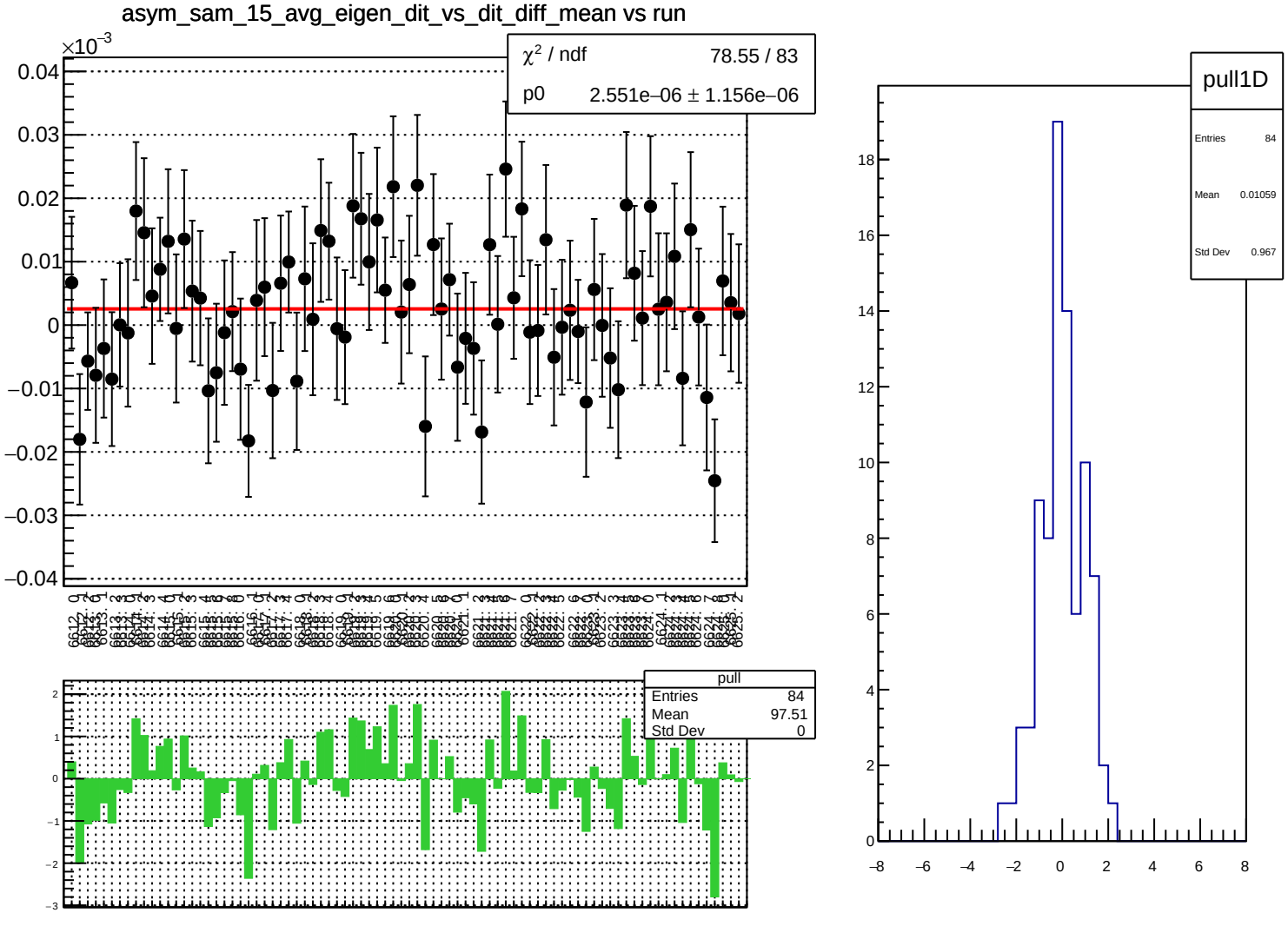

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.055e+06 / 83
p0 4.485e−12 ± 5.903e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

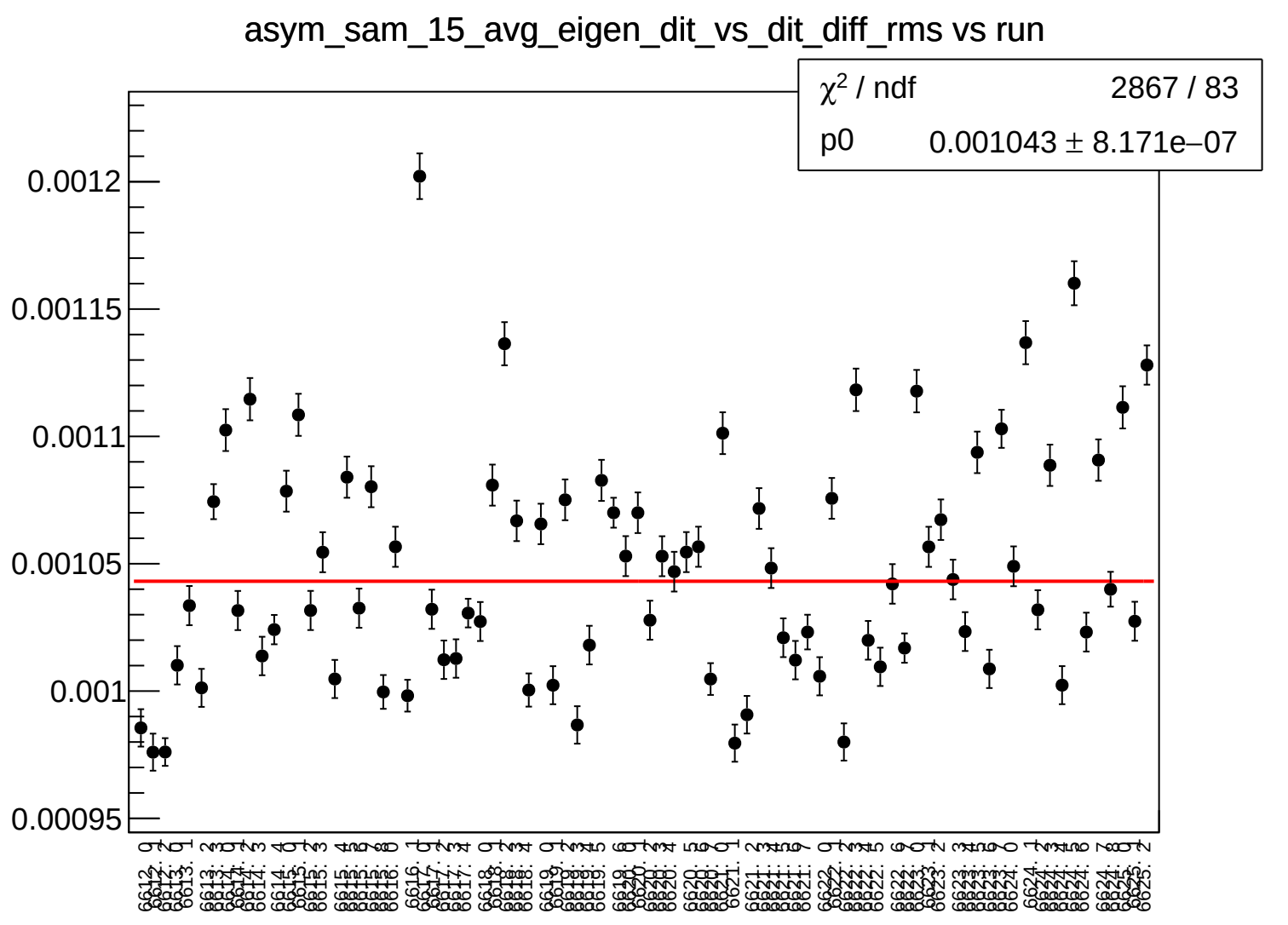

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.61 / 83
p0 −0.02584 ± 0.0255
pull
Entries 84
Mean 26.91
Std Dev 0
pull1D
Entries 84
Mean 0.01168
Std Dev 0.9673

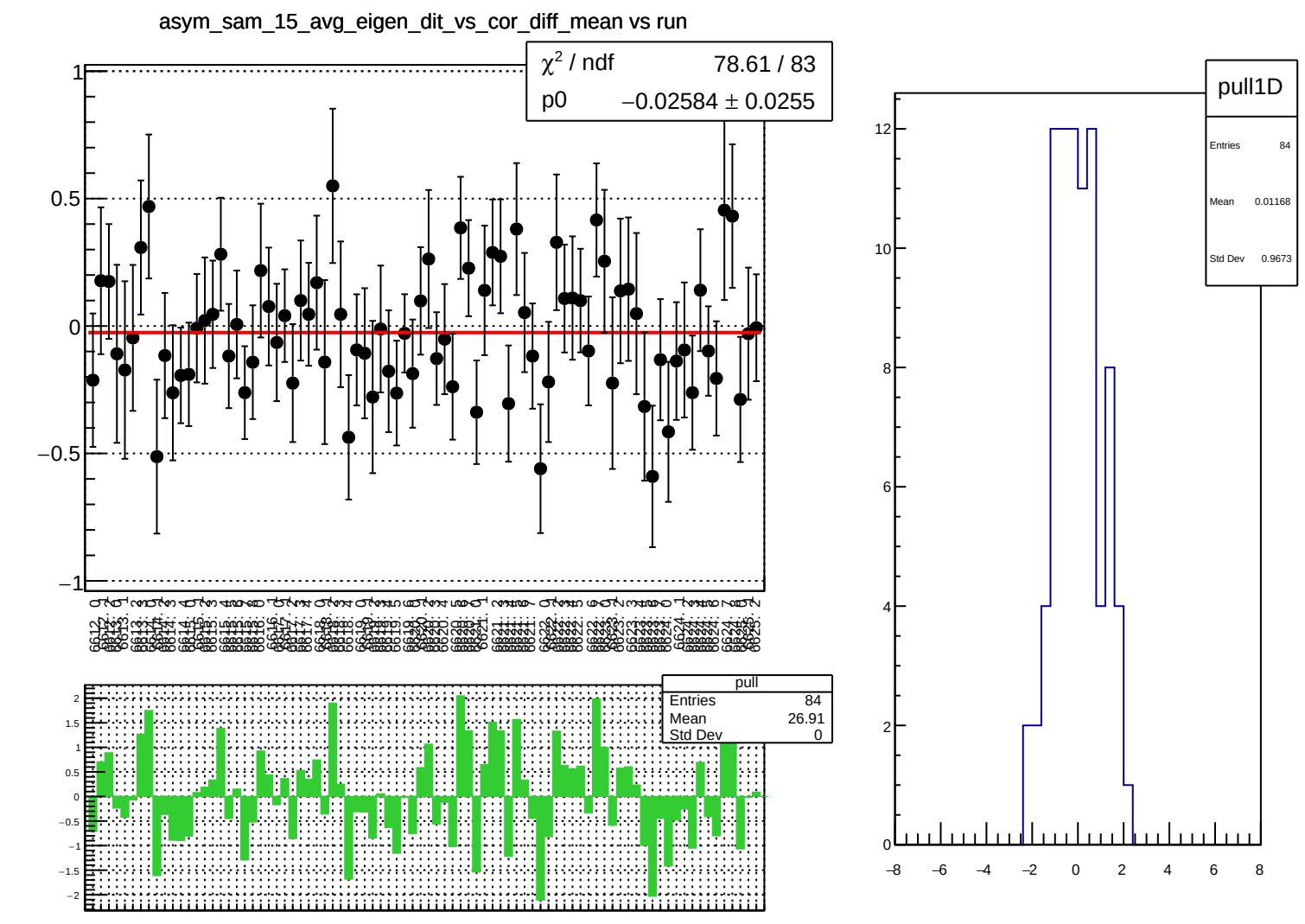

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.002e+04 / 83
p0 22.76 ± 0.01803
35
30
25
20
15

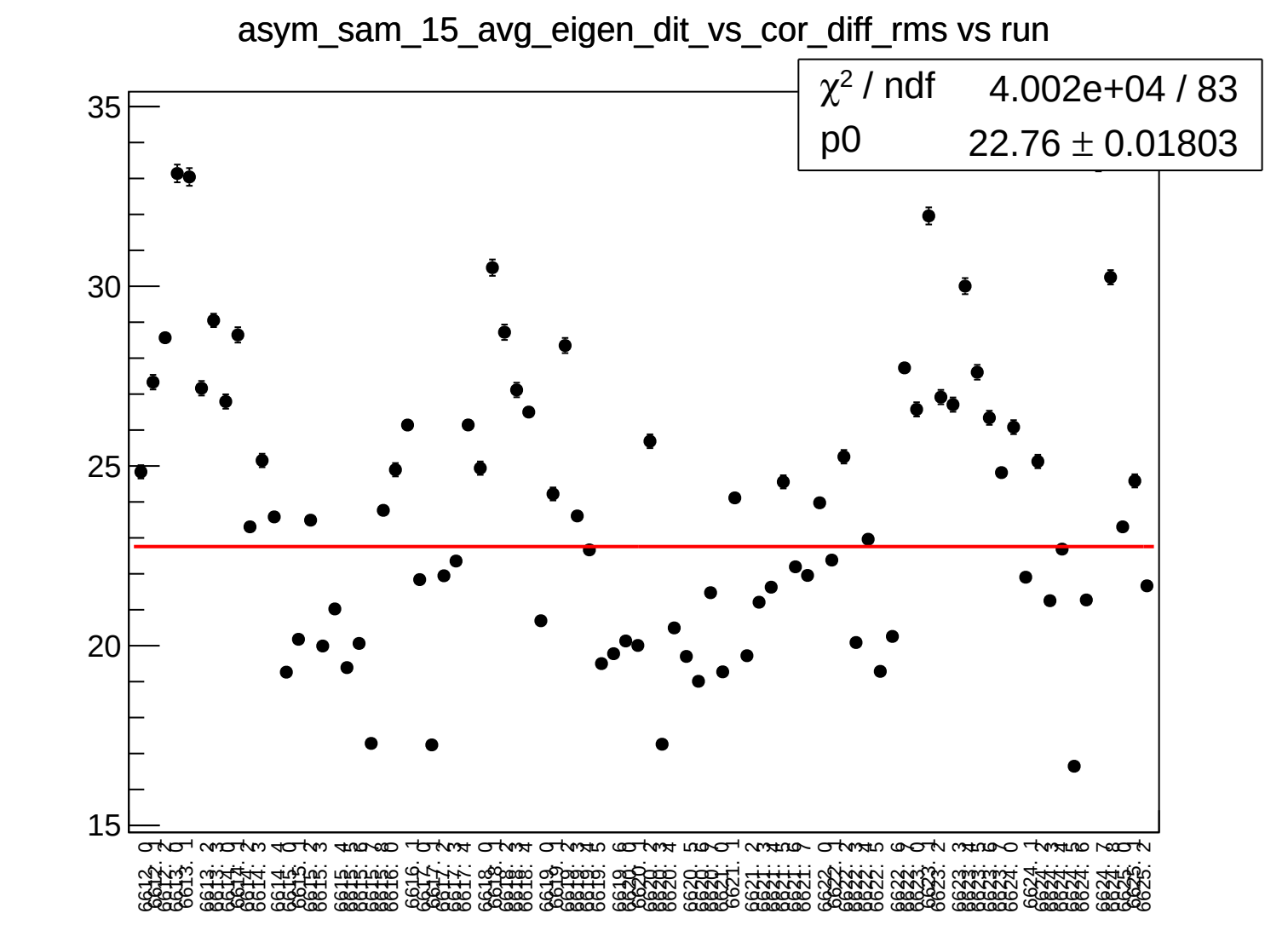

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.61 / 83
p0 −0.02584 ± 0.0255
pull
Entries 84
Mean 26.91
Std Dev 0
pull1D
Entries 84
Mean 0.01168
Std Dev 0.9673

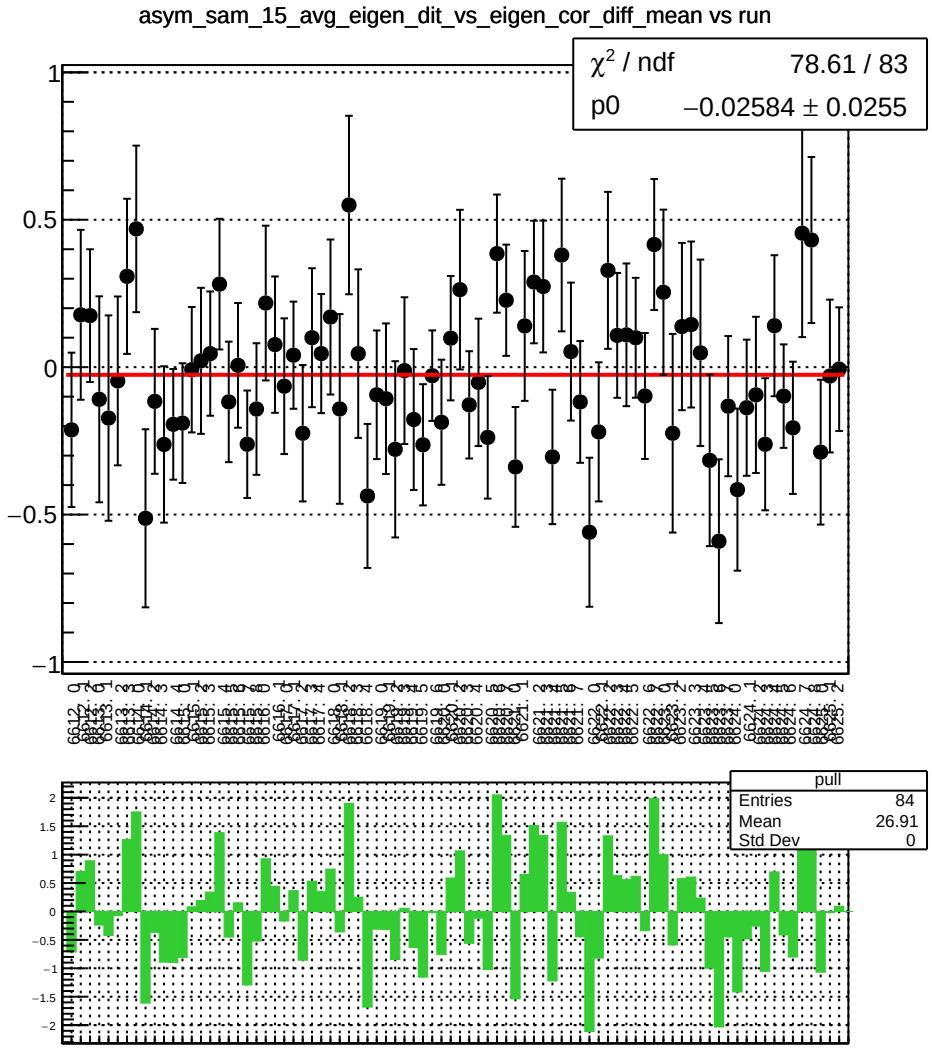

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.002e+04 / 83
p0 22.76 ± 0.01803
35
30
25
20
15

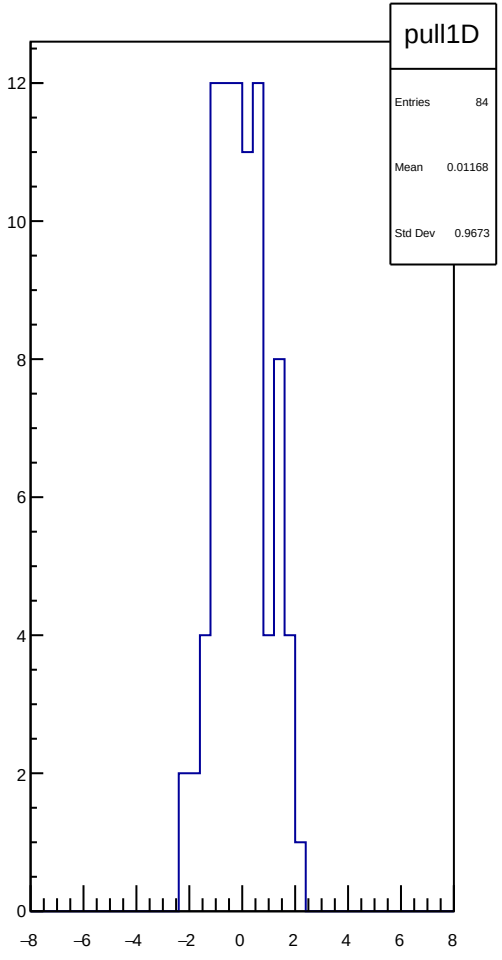

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.55 / 83
p0 2.551e−06 ± 1.156e−06
pull
Entries 84
Mean 97.51
Std Dev 0
pull1D
Entries 84
Mean 0.01059
Std Dev 0.967

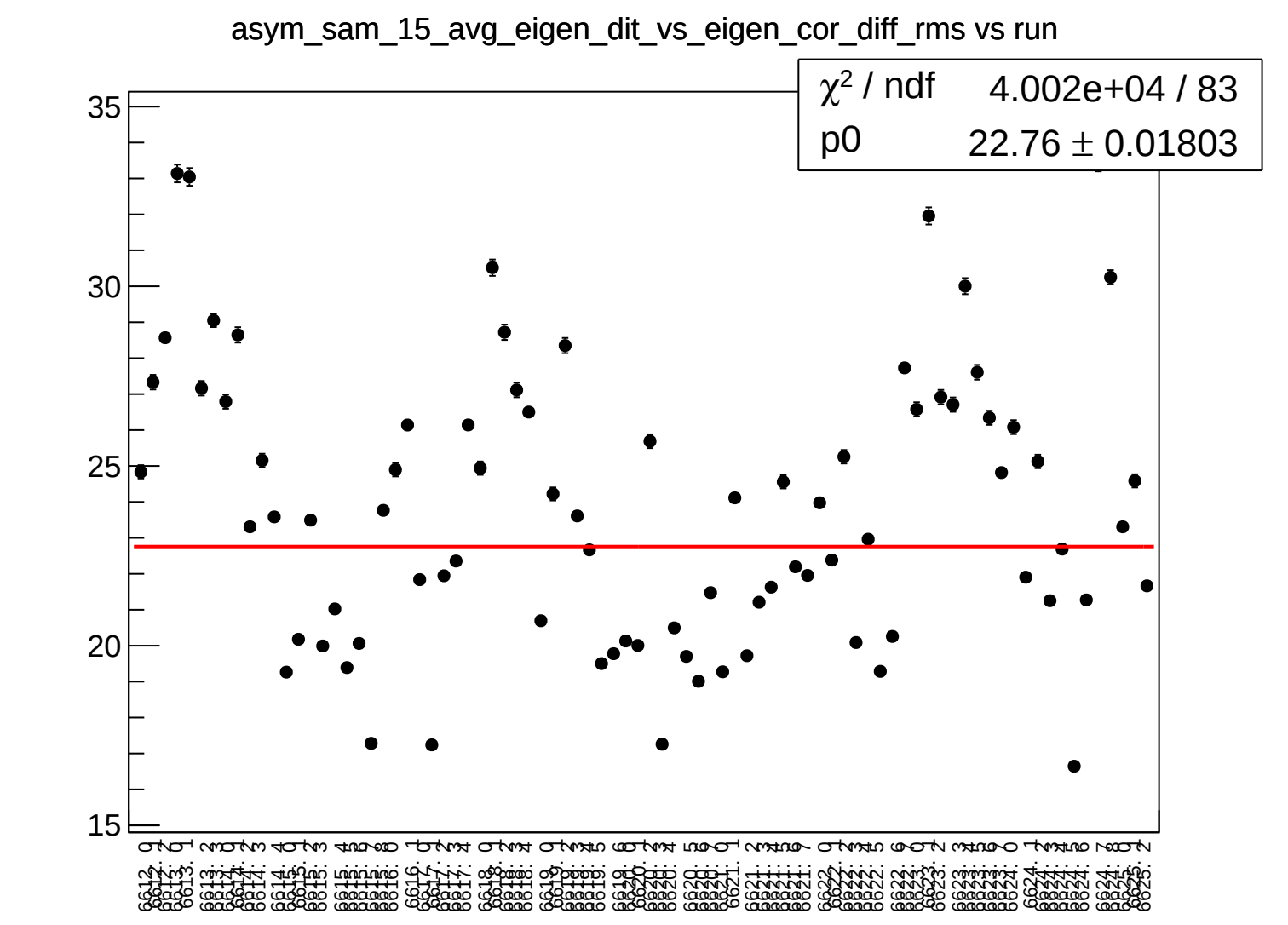

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2867 / 83
p0 0.001043 ± 8.171e−07
0.0012
0.00115
0.0011
0.00105
0.001
0.00095

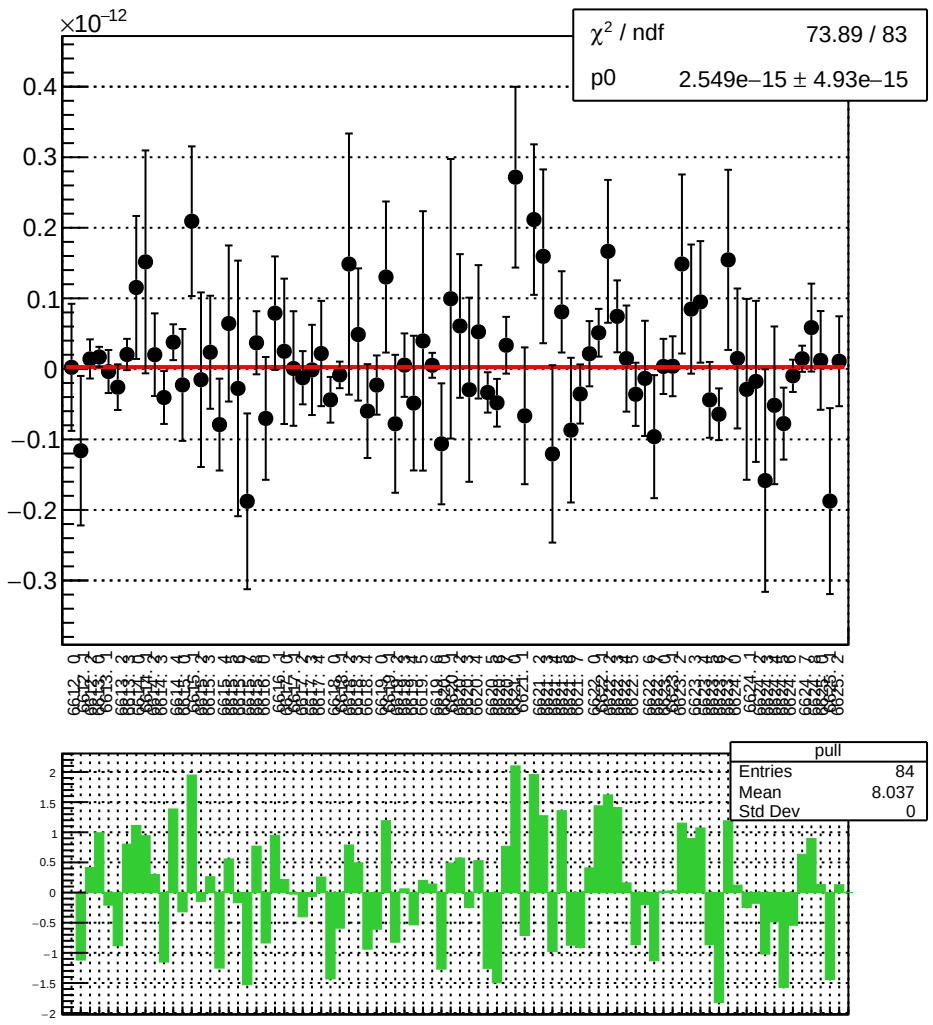

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.61 / 83
p0 −0.02584 ± 0.0255
pull
Entries 84
Mean 26.91
Std Dev 0
pull1D
Entries 84
Mean 0.01168
Std Dev 0.9673

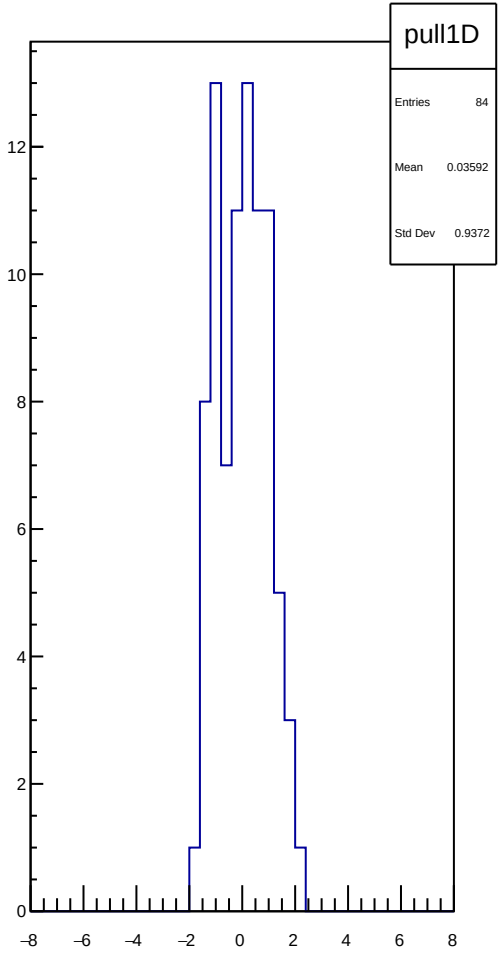

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.002e+04 / 83
p0 22.76 ± 0.01803
35
30
25
20
15

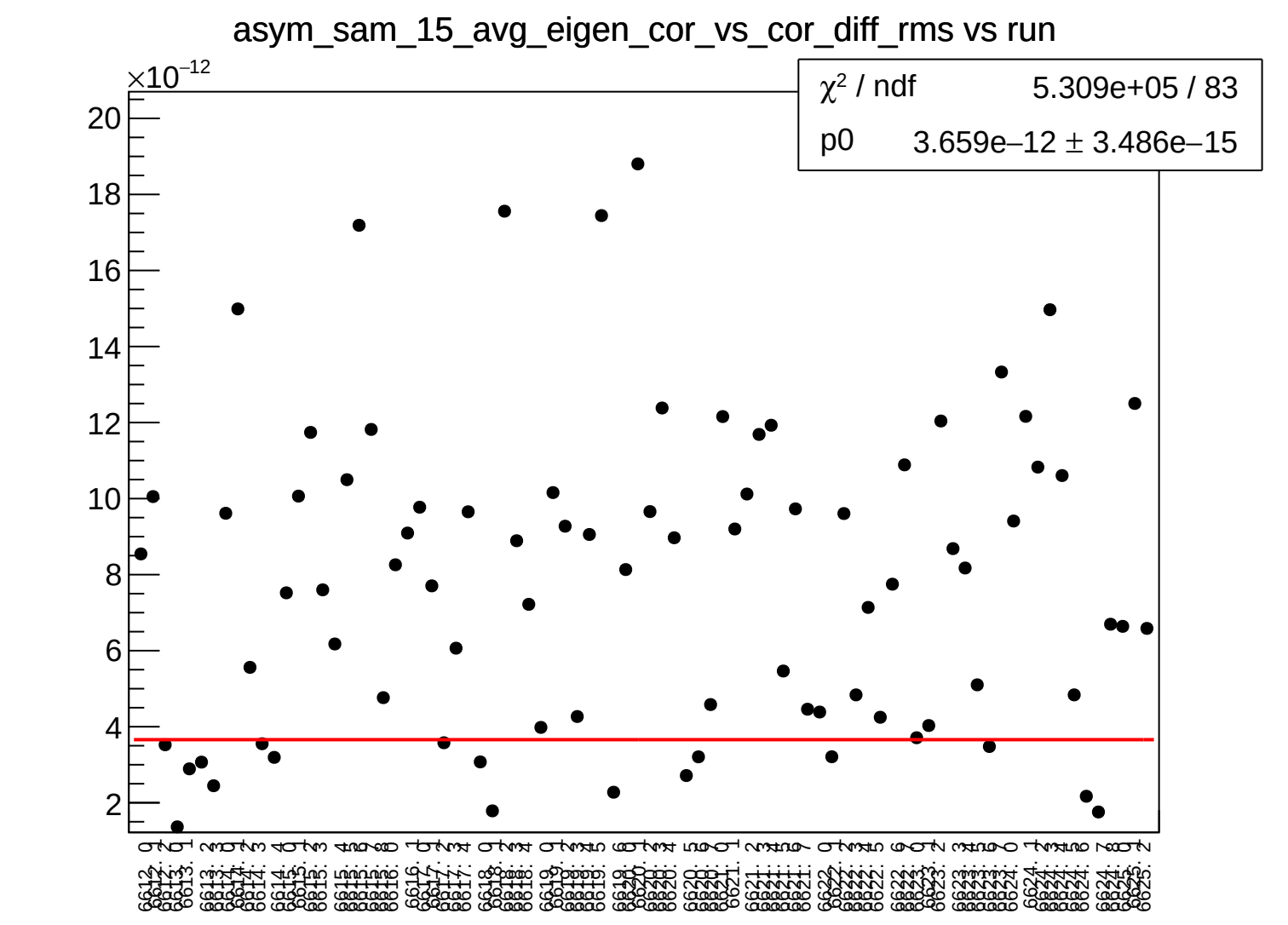

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.61 / 83
p0 −0.02584 ± 0.0255
pull
Entries 84
Mean 26.91
Std Dev 0

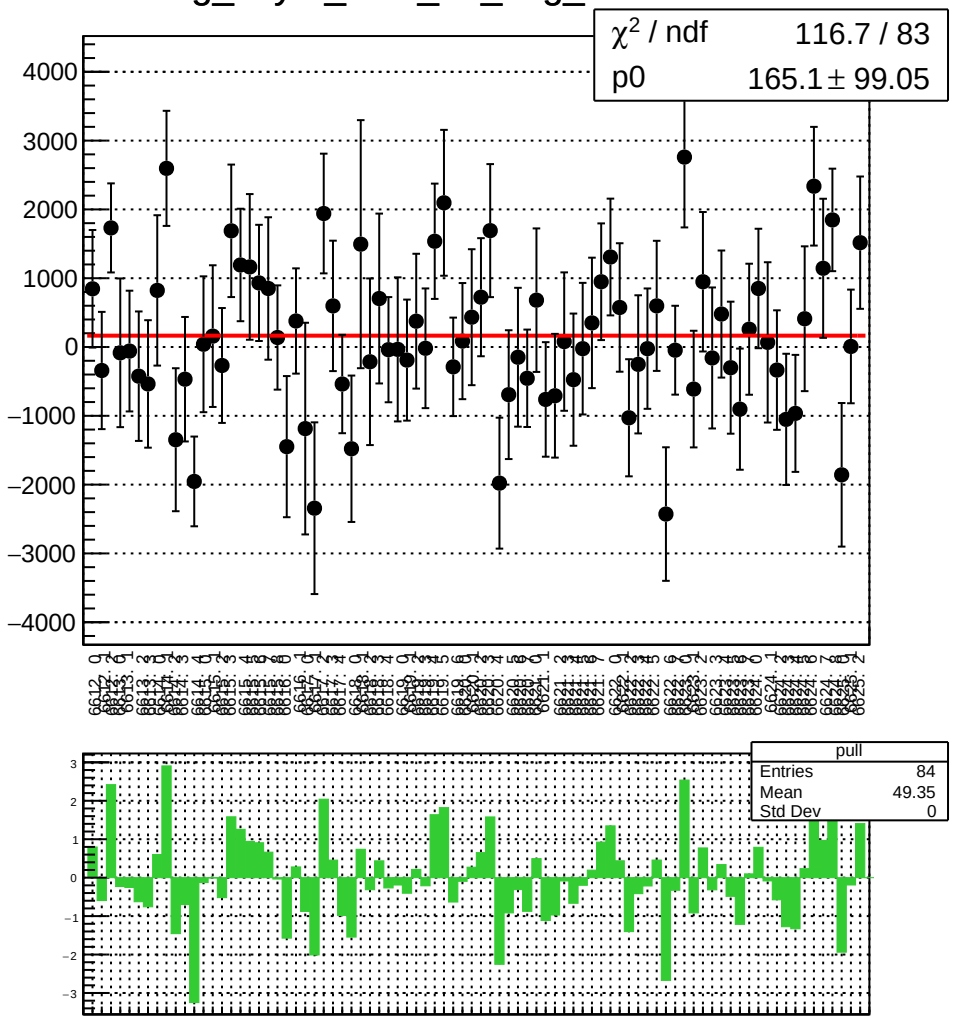

pull1D
Entries 84
Mean 0.01168
Std Dev 0.9673

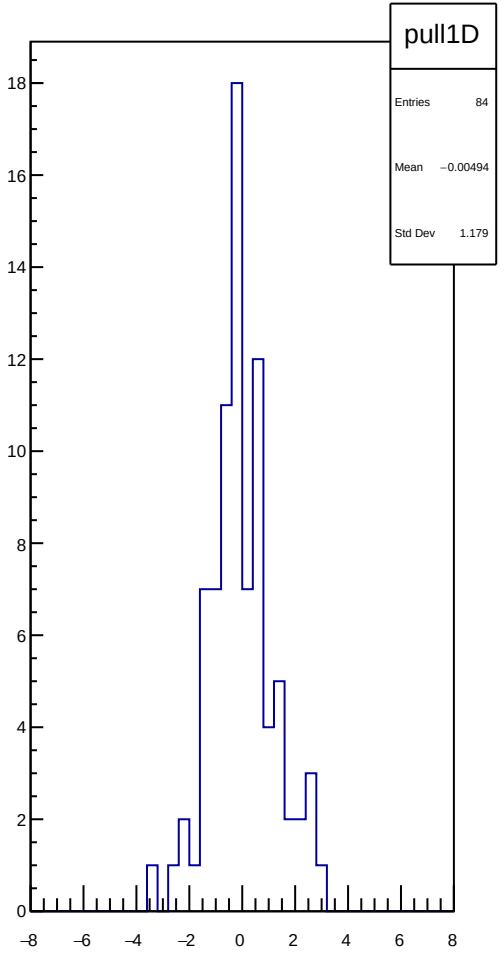

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.002e+04 / 83
p0 22.76 ± 0.01803
35
30
25
20
15

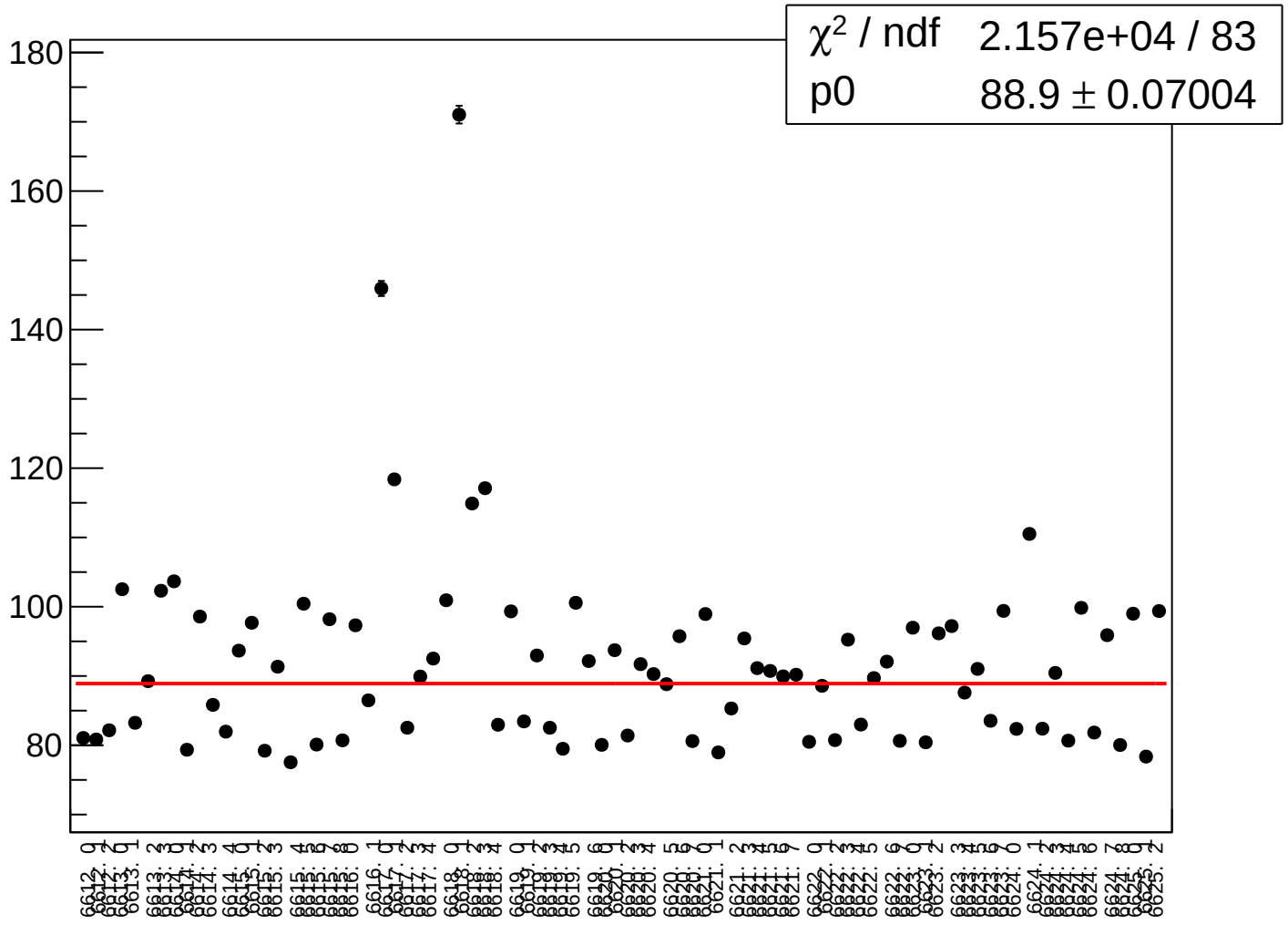

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.89 / 83
p0 2.549e−15 ± 4.93e−15
pull
Entries 84
Mean 8.037
Std Dev 0

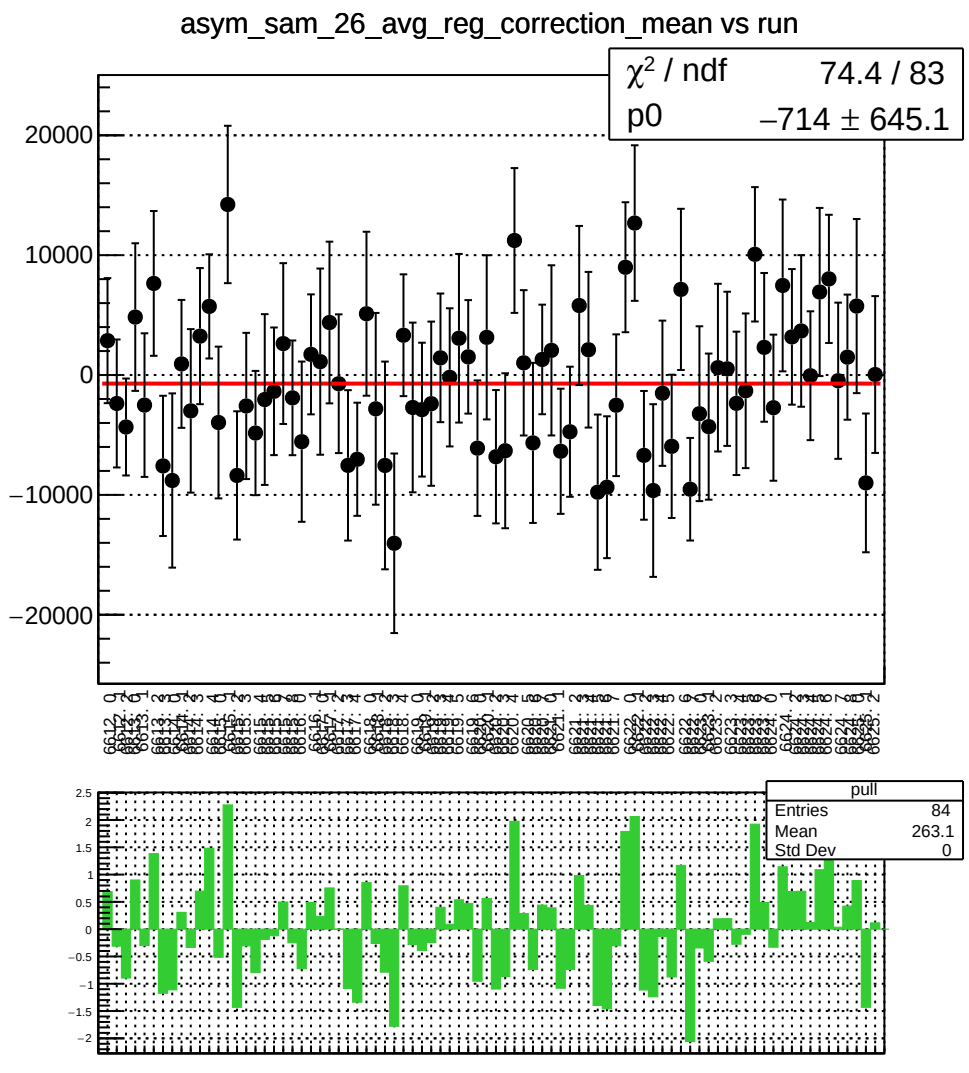

pull1D
Entries 84
Mean 0.03592
Std Dev 0.9372

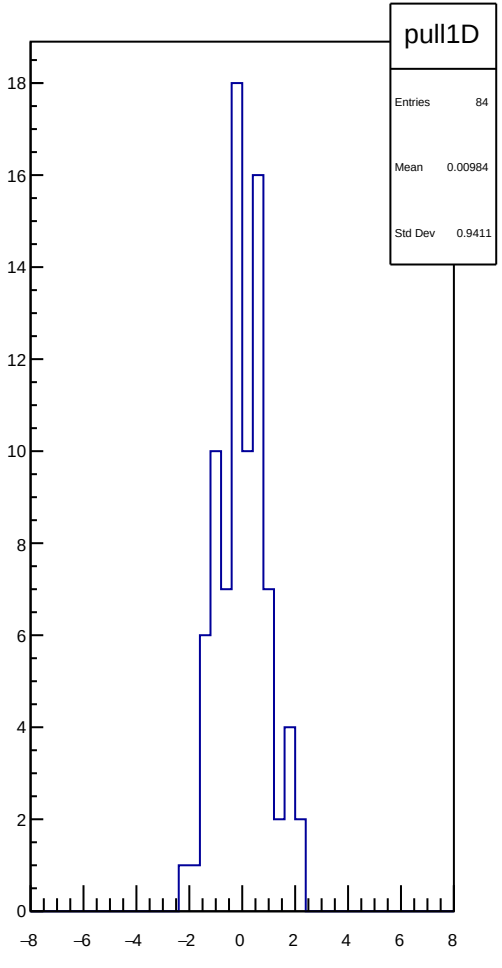

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.309e+05 / 83
p0 3.659e−12 ± 3.486e−15
20
18
16
14
12
10
8
6
4
2

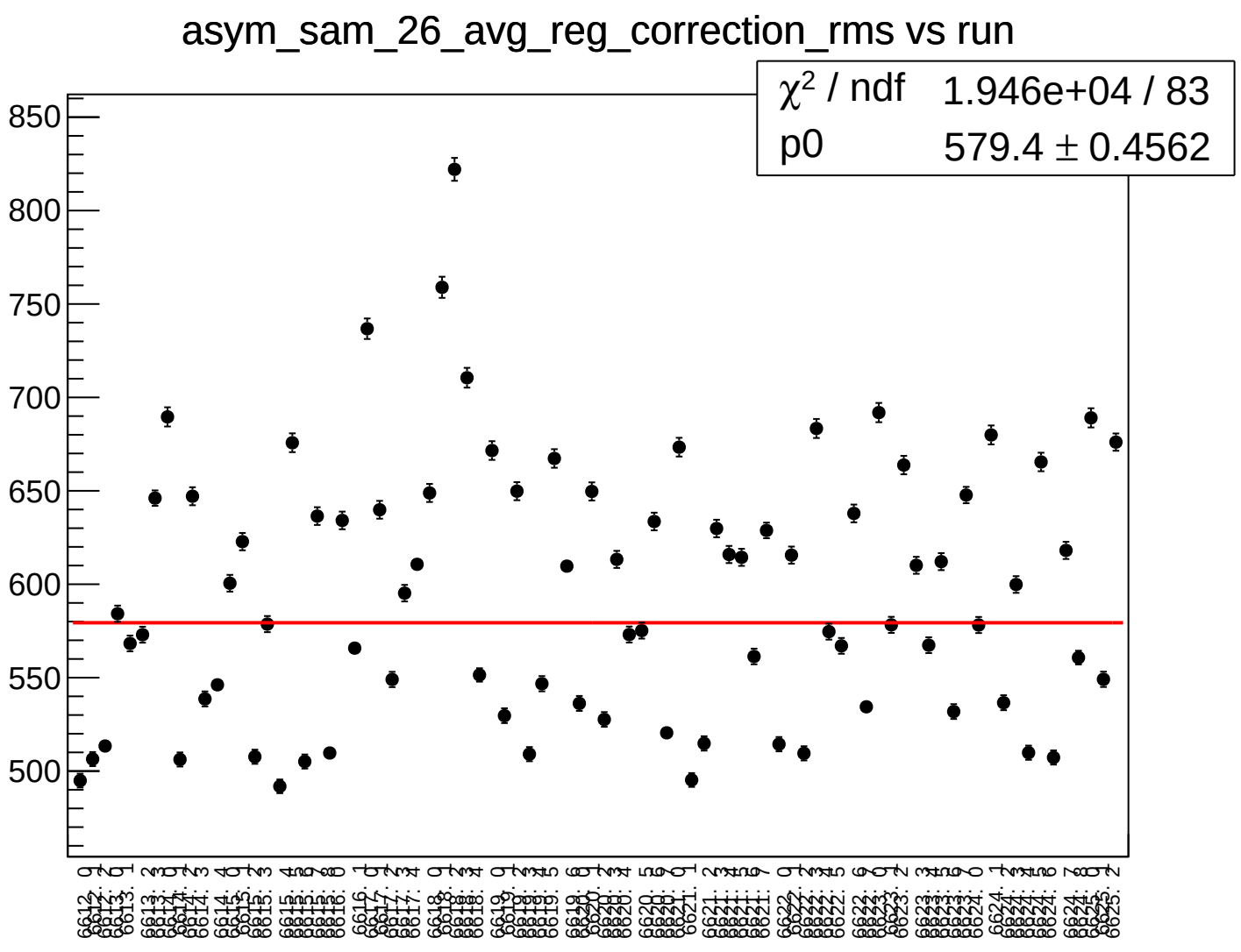

reg_asym_sam_26_avg_mean vs run
χ² / ndf 116.7 / 83
p0 165.1 ± 99.05
pull
Entries 84
Mean 49.35
Std Dev 0

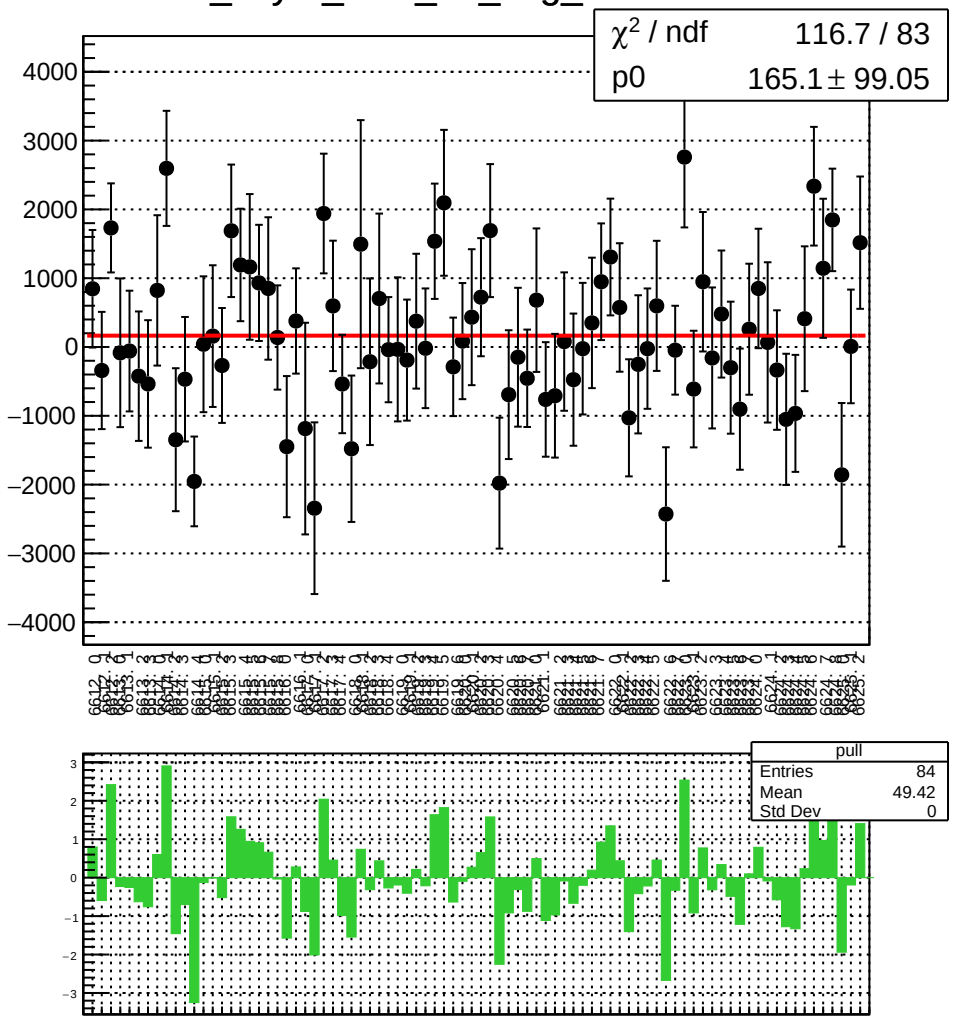

pull1D
Entries 84
Mean −0.00494
Std Dev 1.179

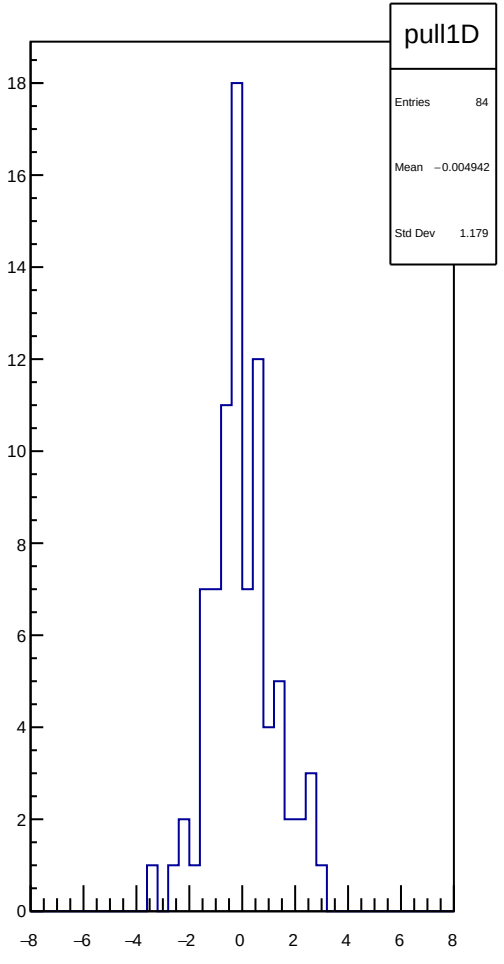

reg_asym_sam_26_avg_rms vs run
χ² / ndf 2.157e+04 / 83
p0 88.9 ± 0.07004
180
160
140
120
100
80

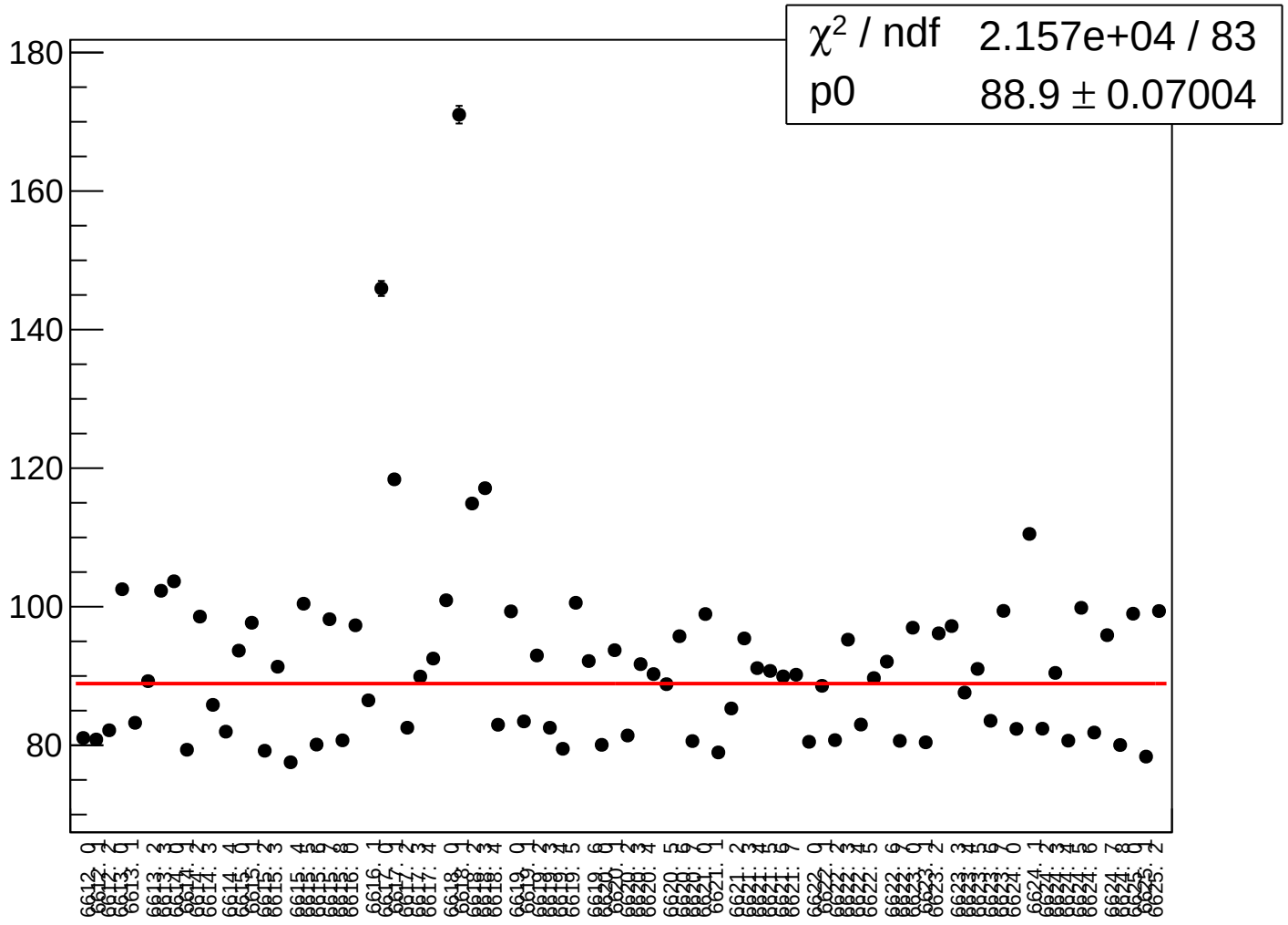

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 74.4 / 83
p0 −714 ± 645.1
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 263.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

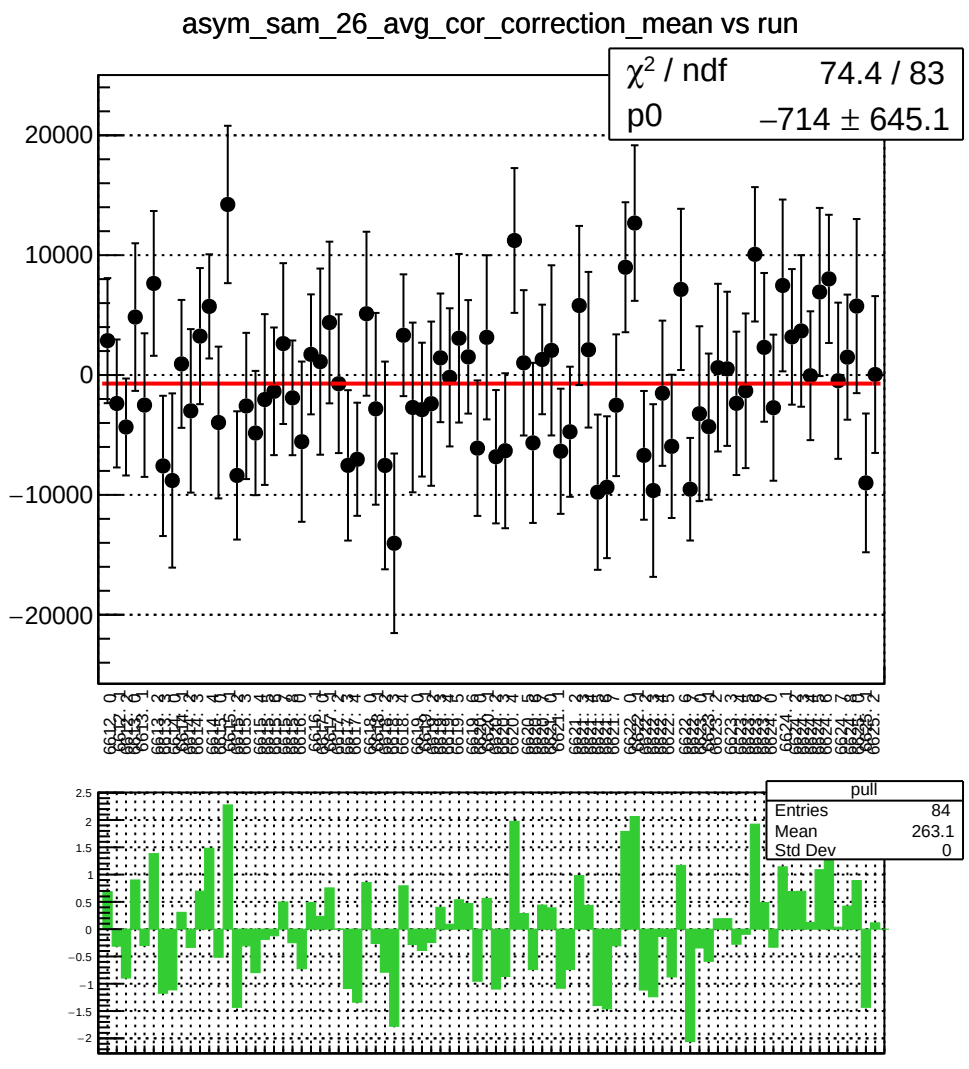

pull1D
Entries 84
Mean 0.00984
Std Dev 0.9411
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

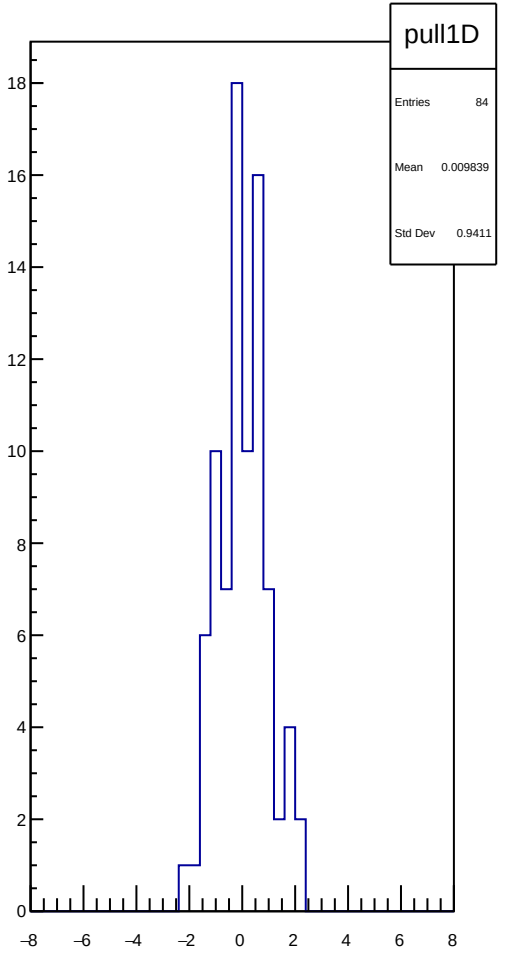

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1.946e+04 / 83
p0 579.4 ± 0.4562
850
800
750
700
650
600
550
500

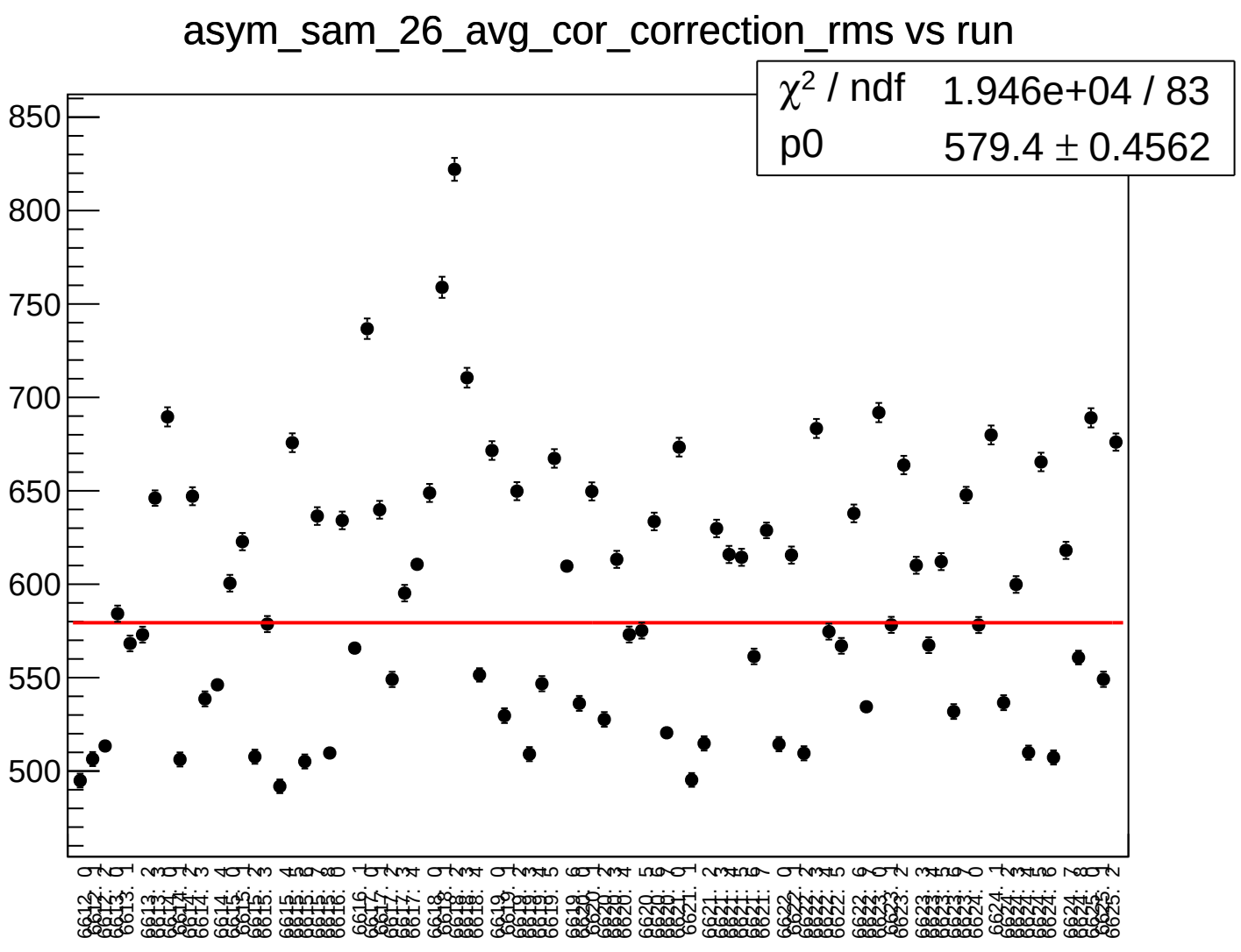

cor_asym_sam_26_avg_mean vs run
χ² / ndf 116.7 / 83
p0 165.1 ± 99.05
pull
Entries 84
Mean 49.42
Std Dev 0

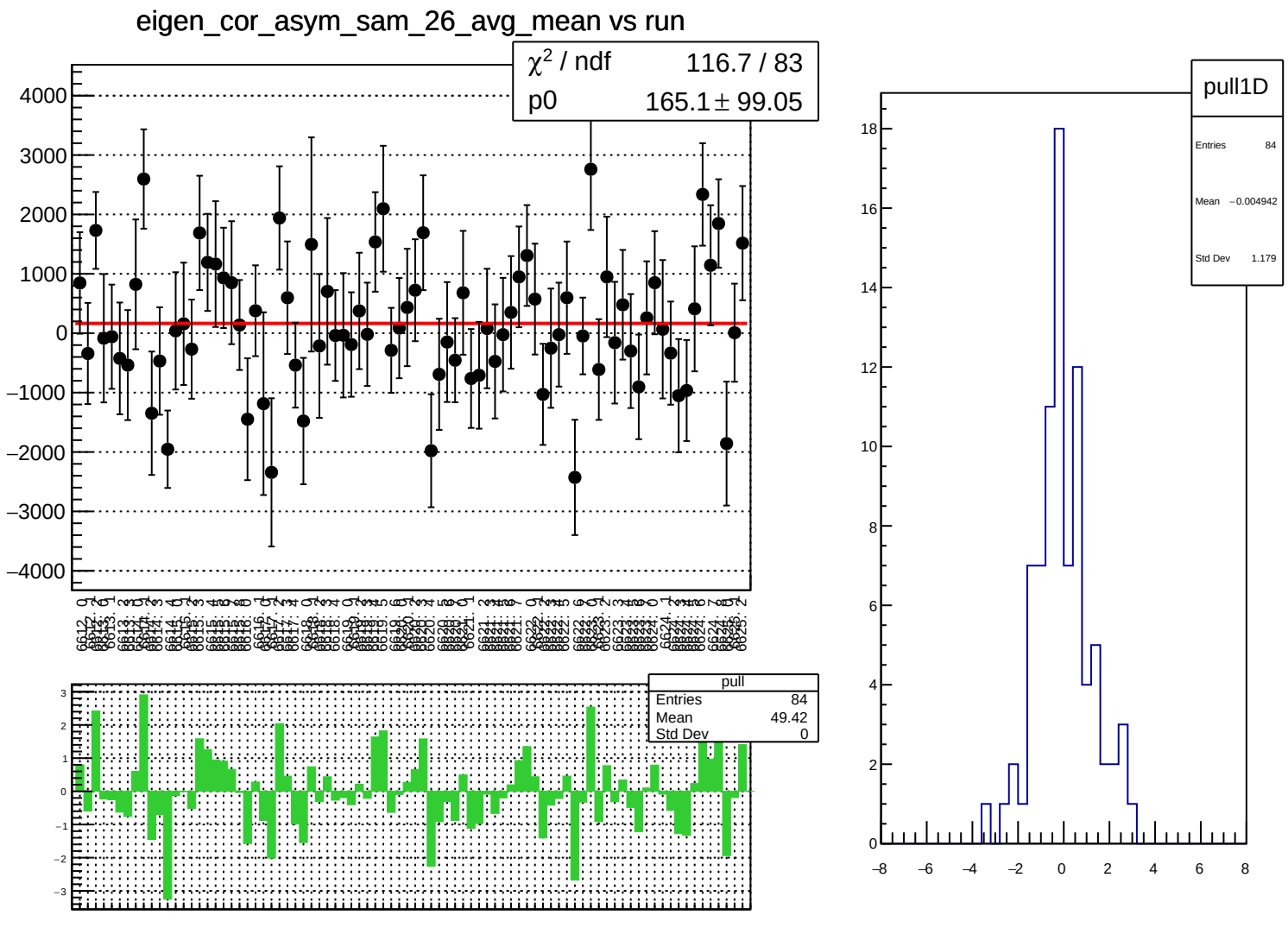

pull1D
Entries 84
Mean −0.004942
Std Dev 1.179

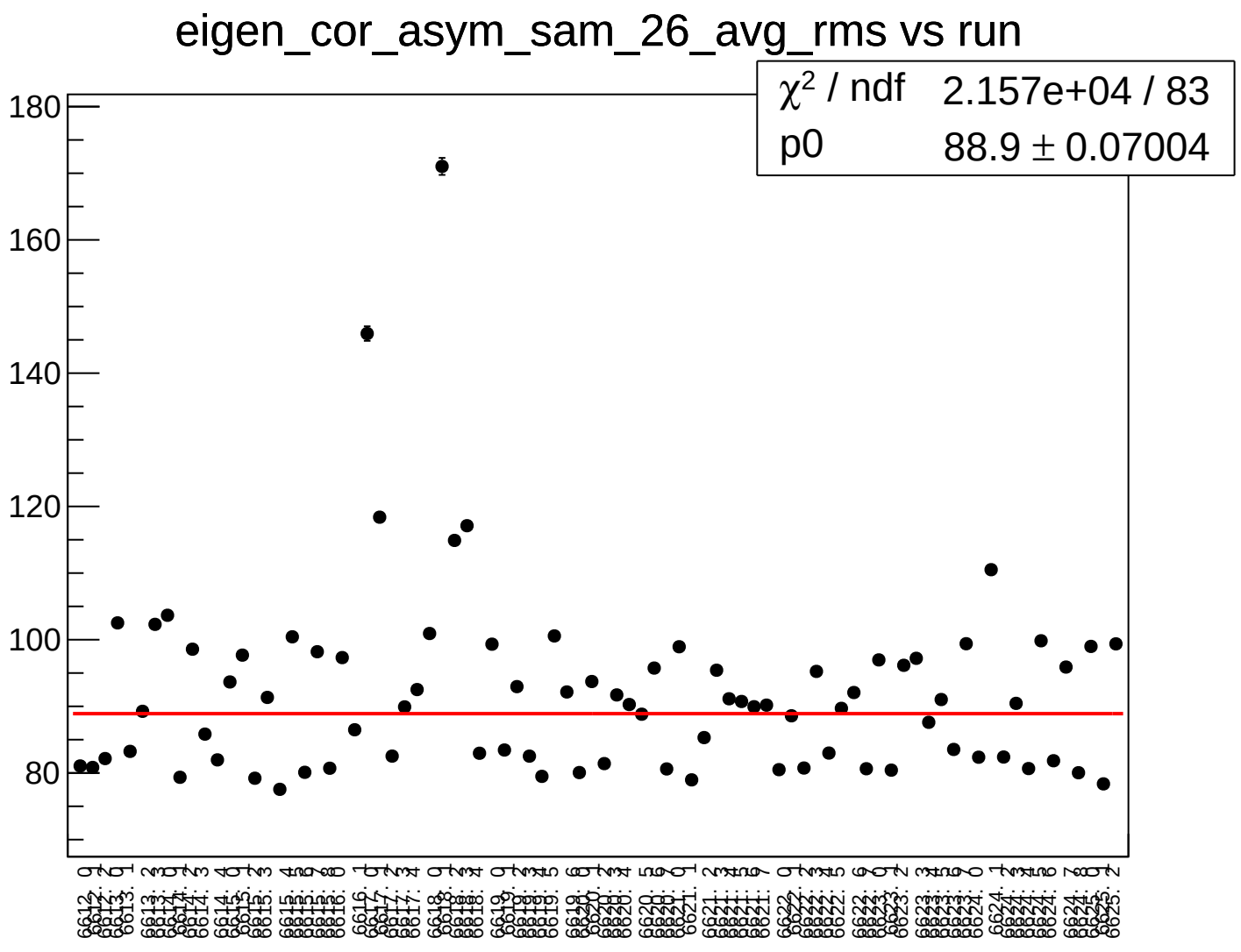

cor_asym_sam_26_avg_rms vs run
χ² / ndf 2.157e+04 / 83
p0 88.9 ± 0.07004
180
160
140
120
100
80

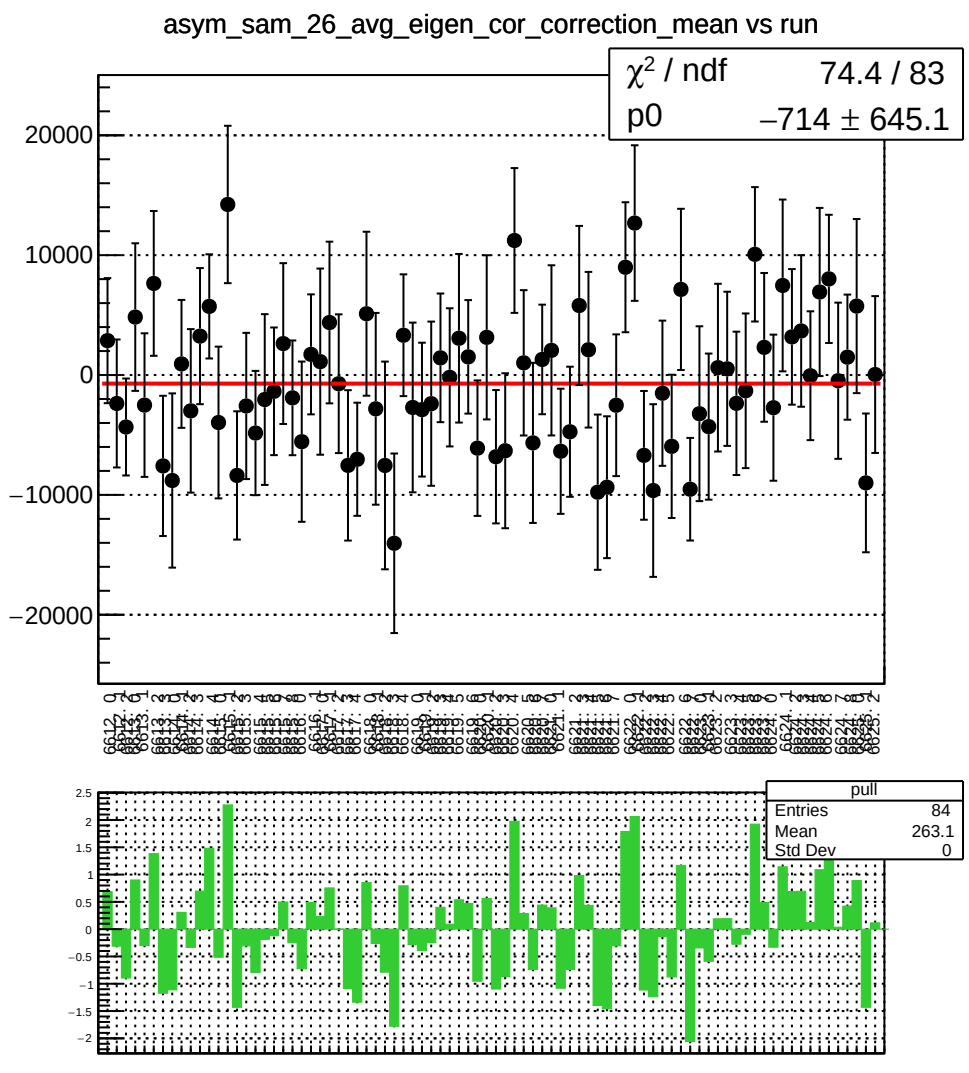

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 74.4 / 83
p0 −714 ± 645.1
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 263.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

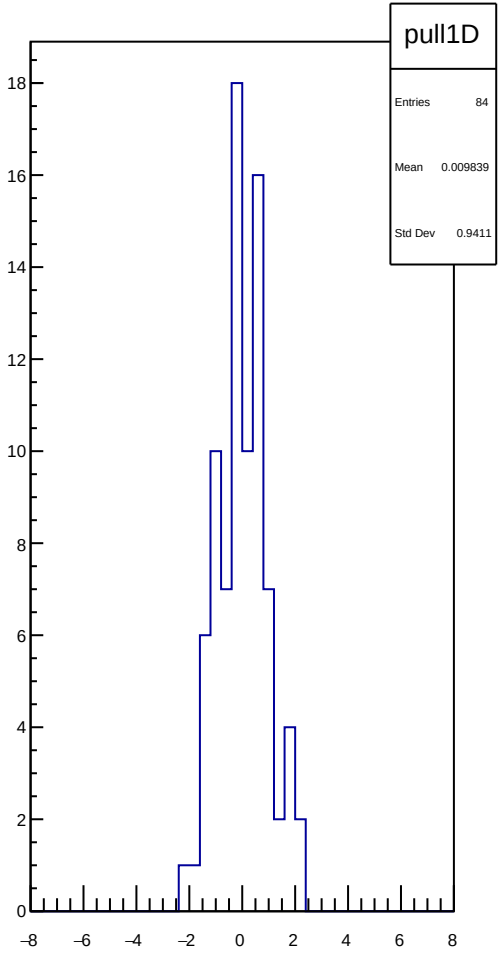

pull1D
Entries 84
Mean 0.009839
Std Dev 0.9411
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

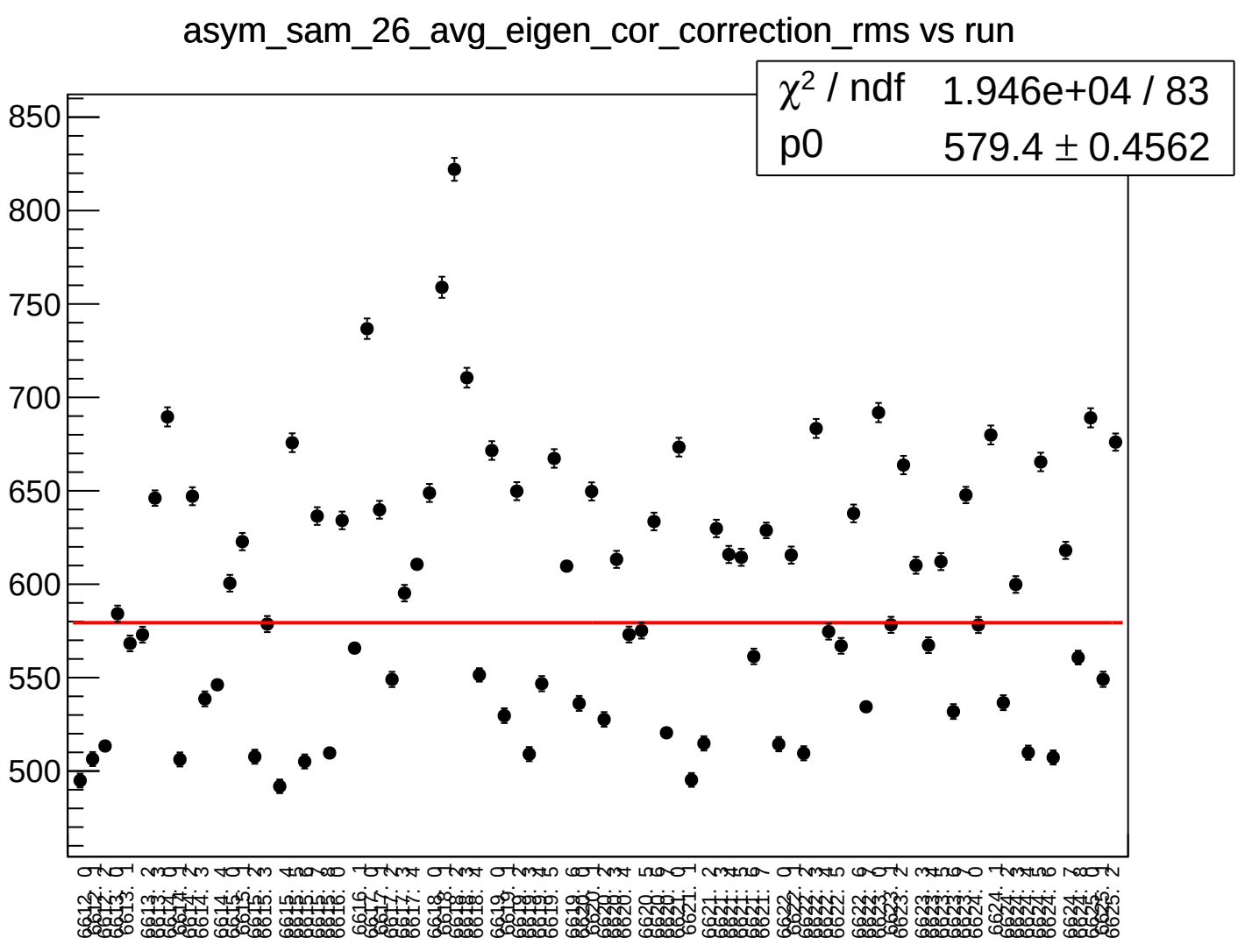

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 1.946e+04 / 83
p0 579.4 ± 0.4562
850
800
750
700
650
600
550
500

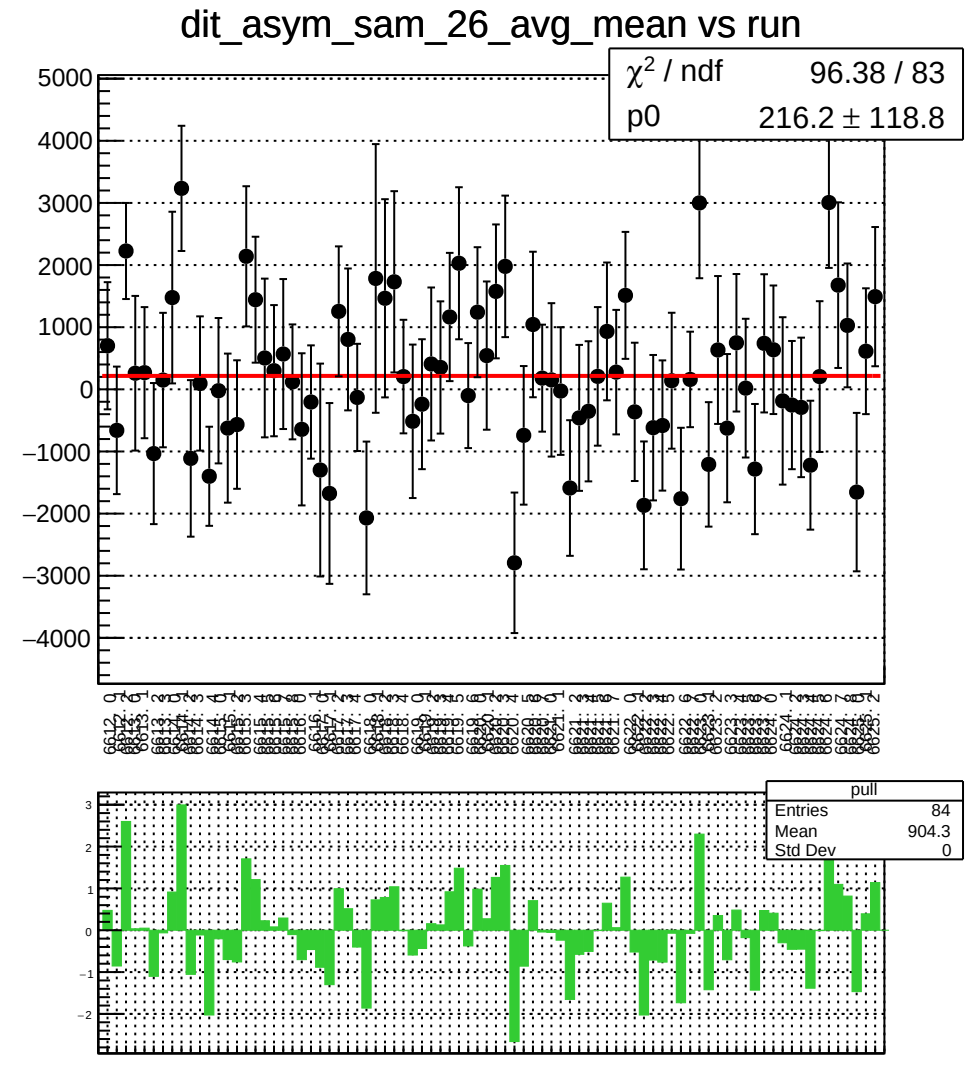

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 116.7 / 83
p0 165.1 ± 99.05
pull
Entries 84
Mean 49.42
Std Dev 0
pull1D
Entries 84
Mean −0.004942
Std Dev 1.179

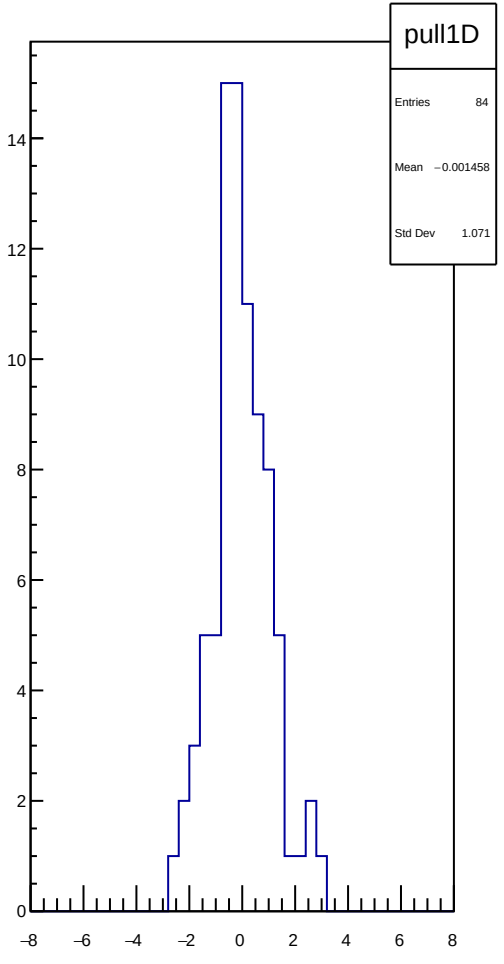

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 2.157e+04 / 83
p0 88.9 ± 0.07004
180
160
140
120
100
80

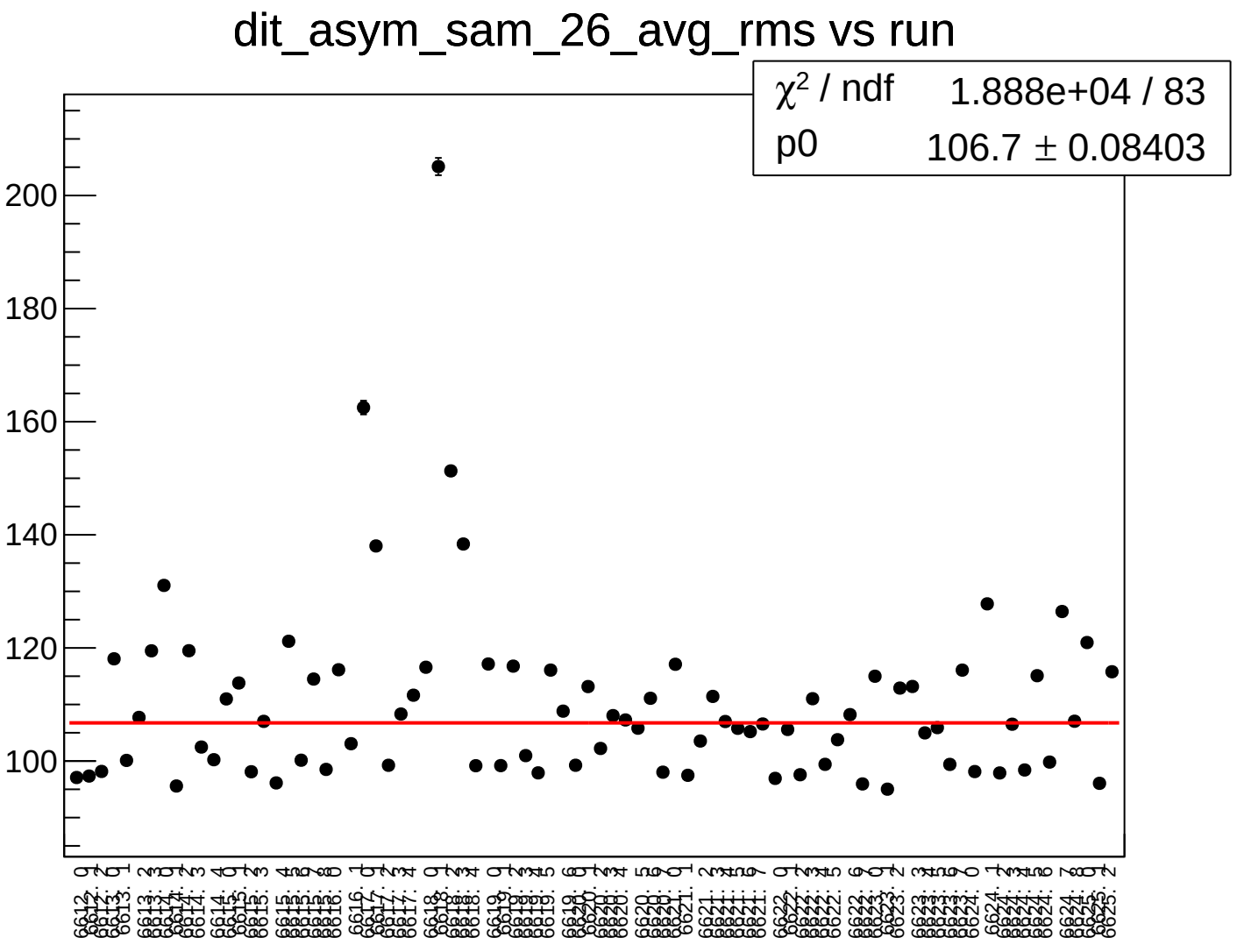

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.4 / 83
p0 −714 ± 645.1
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 263.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

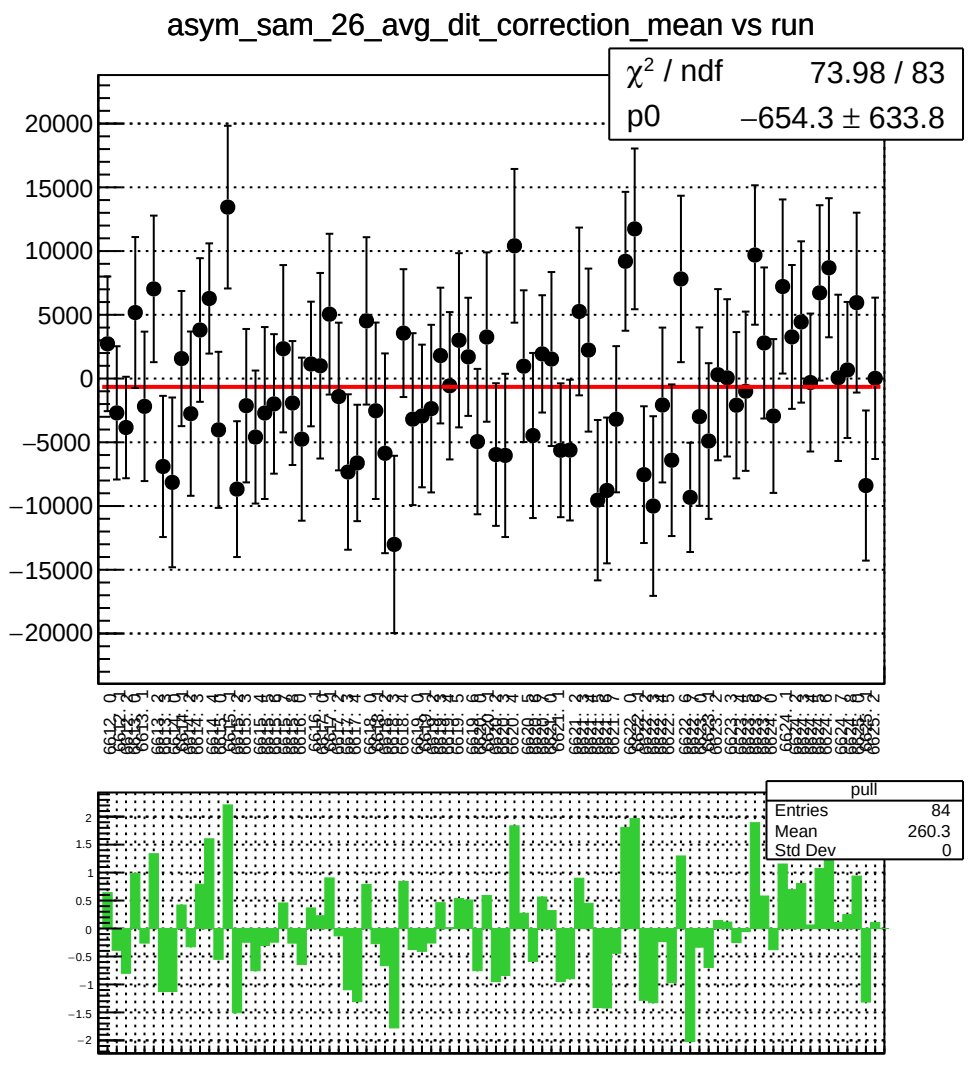

pull1D
Entries 84
Mean 0.009839
Std Dev 0.9411
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

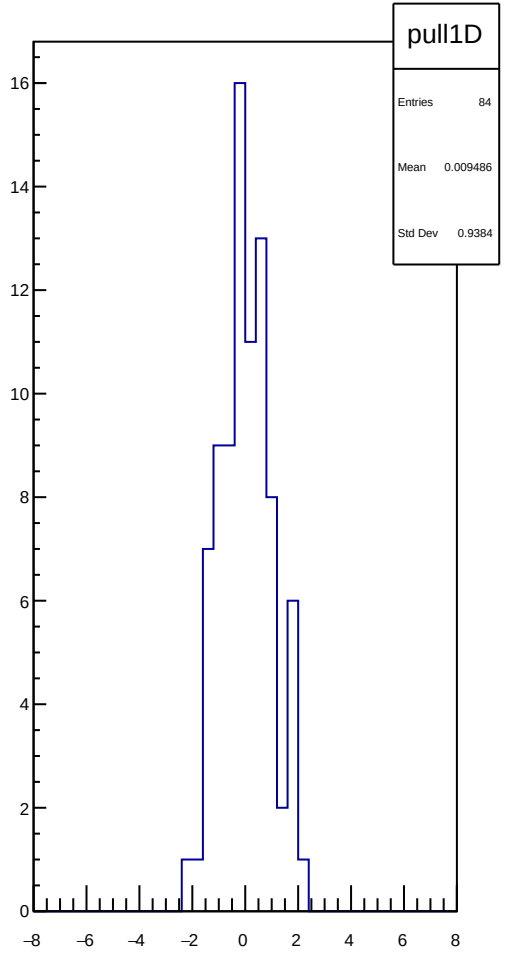

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.946e+04 / 83
p0 579.4 ± 0.4562
850
800
750
700
650
600
550
500

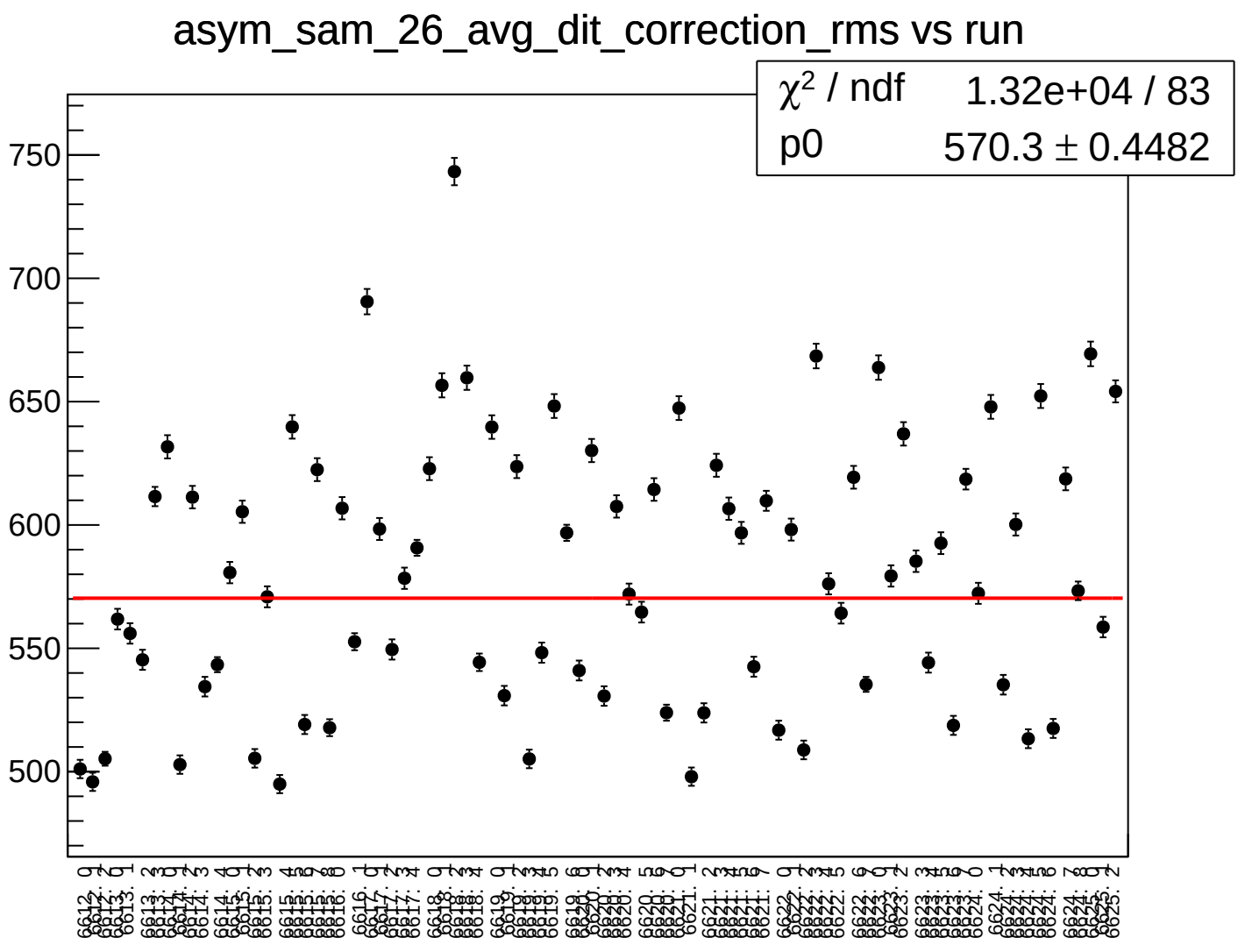

dit_asym_sam_26_avg_mean vs run
χ^2 / ndf 96.38 / 83
p0 216.2 ± 118.8
pull
Entries 84
Mean 904.3
Std Dev 0

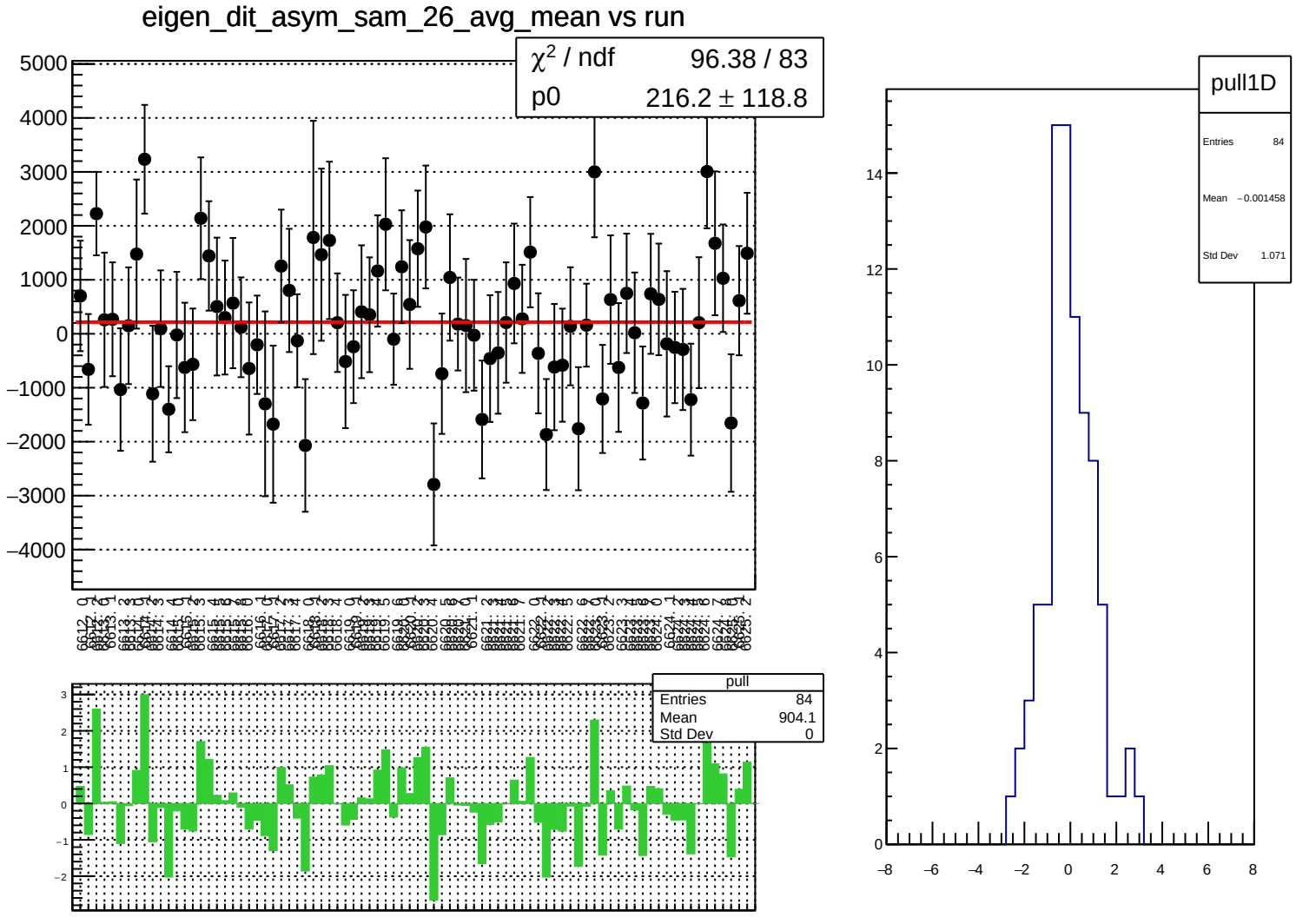

pull1D
Entries 84
Mean −0.001458
Std Dev 1.071

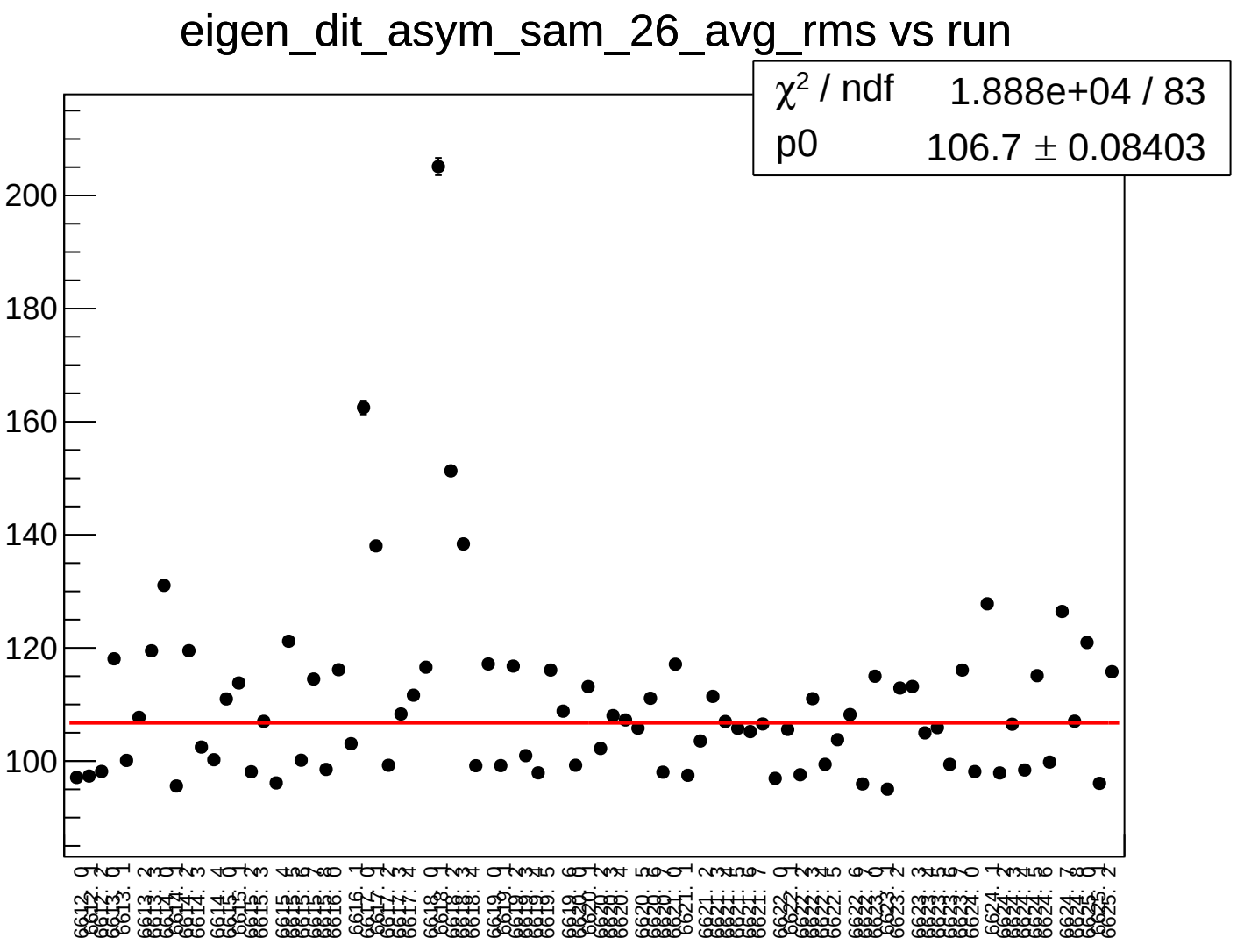

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.888e+04 / 83
p0 106.7 ± 0.08403
200
180
160
140
120
100

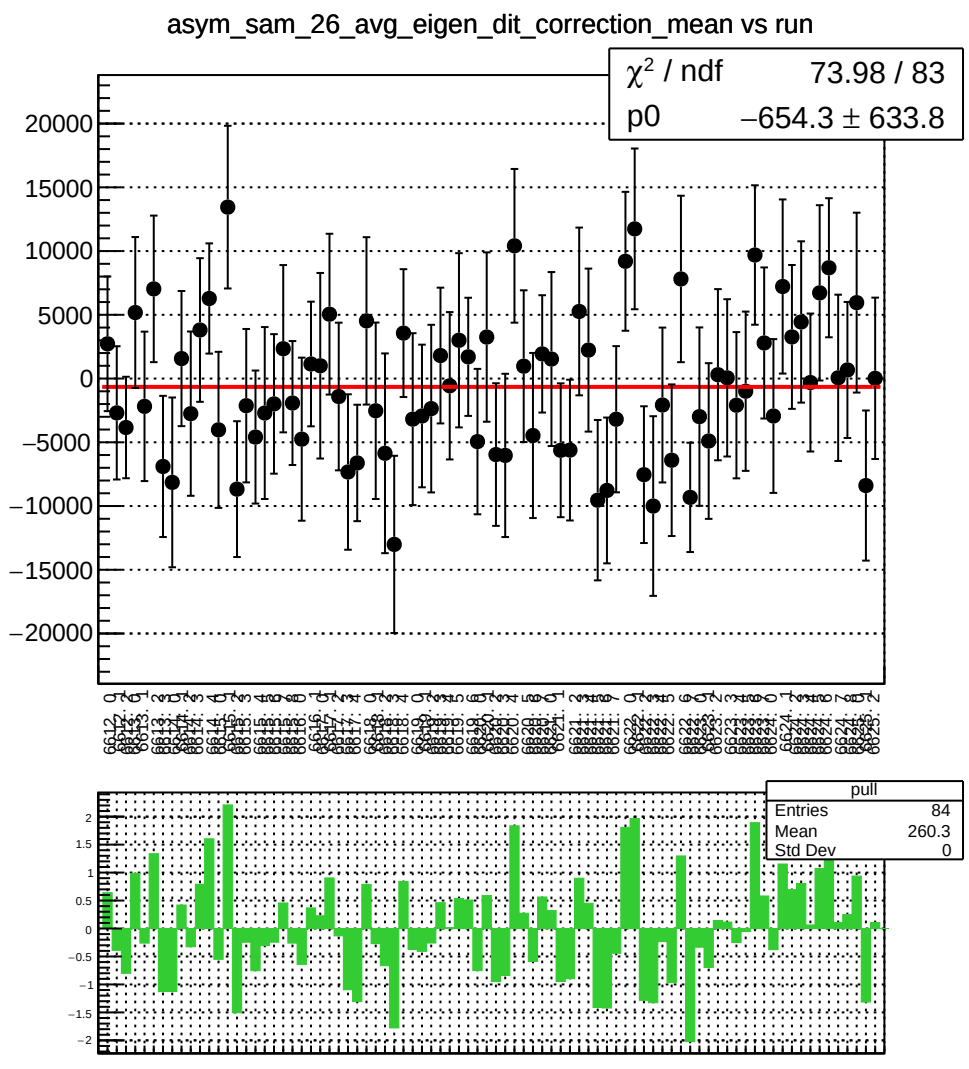

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 73.98 / 83
p0 −654.3 ± 633.8
pull
Entries 84
Mean 260.3
Std Dev 0

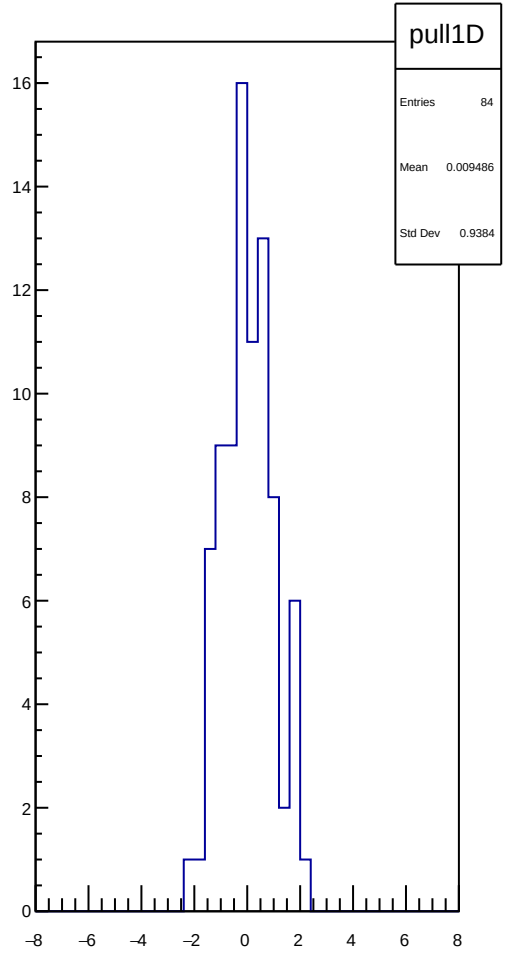

pull1D
Entries 84
Mean 0.009486
Std Dev 0.9384

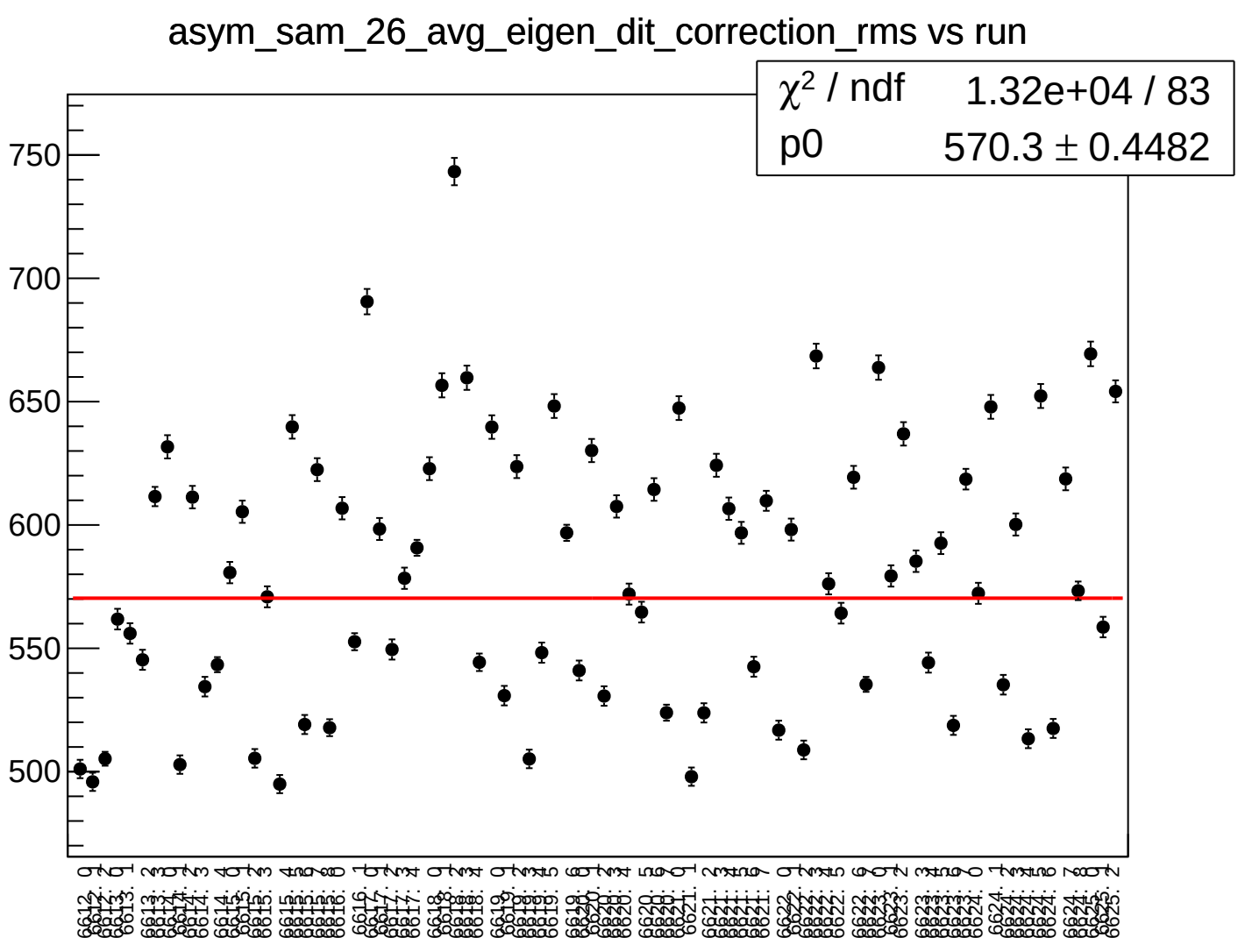

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1.32e+04 / 83
p0 570.3 ± 0.4482
750
700
650
600
550
500

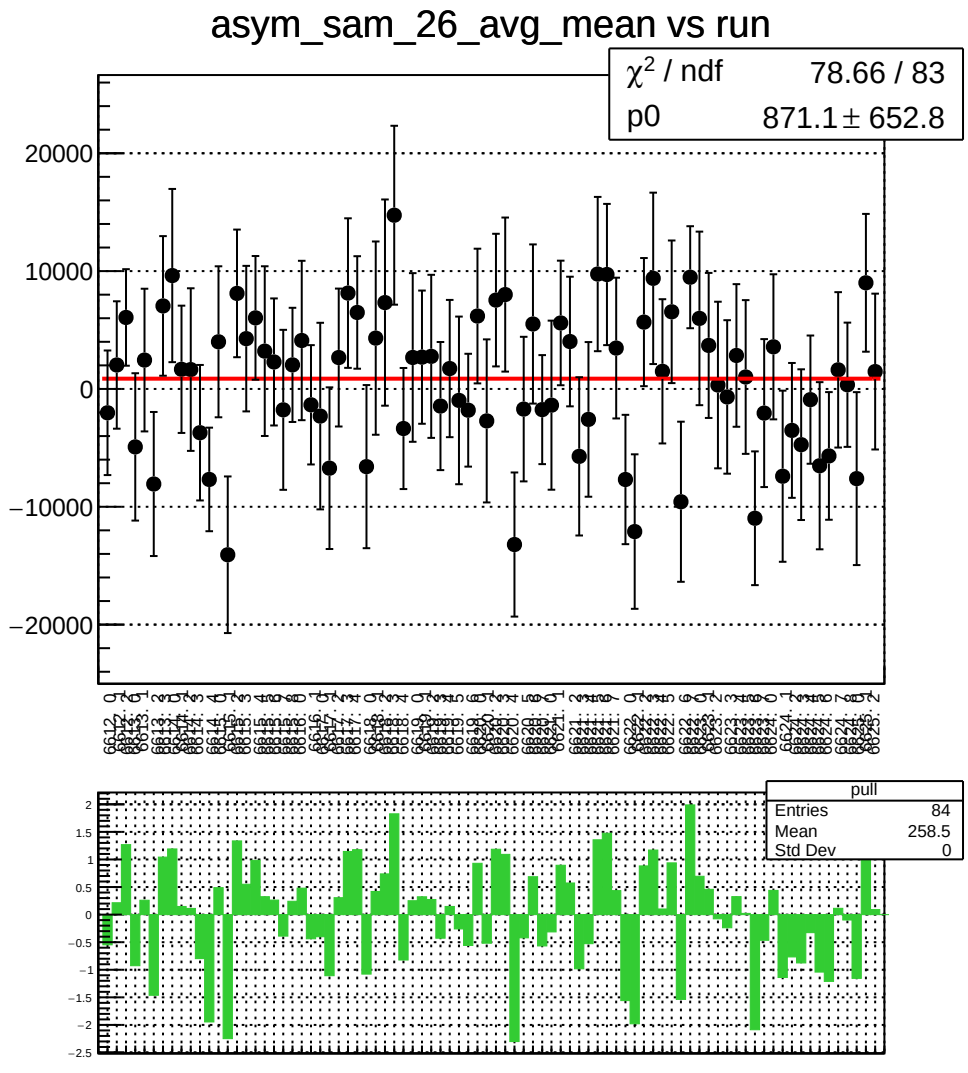

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 96.38 / 83
p0 216.2 ± 118.8
pull
Entries 84
Mean 904.1
Std Dev 0
pull1D
Entries 84
Mean −0.001458
Std Dev 1.071

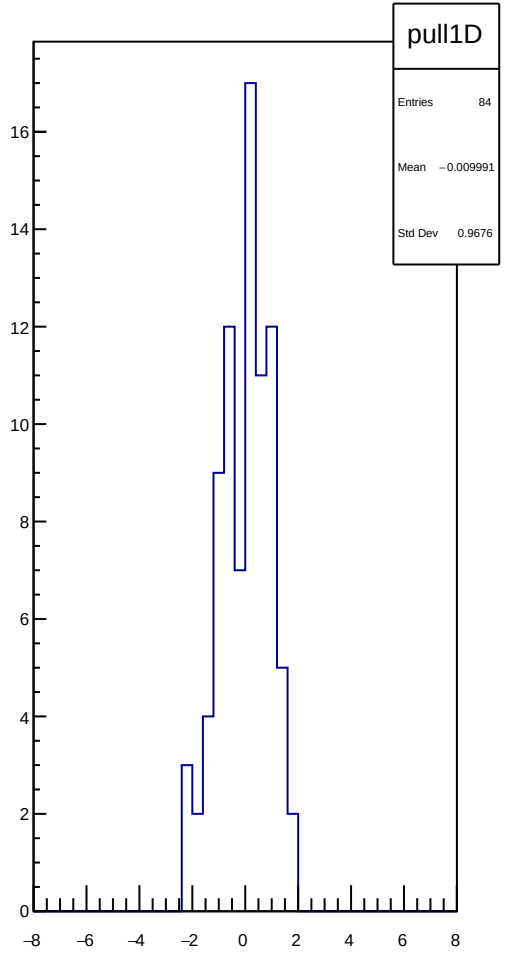

eigen_dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.888e+04 / 83
p0 106.7 ± 0.08403
200
180
160
140
120
100

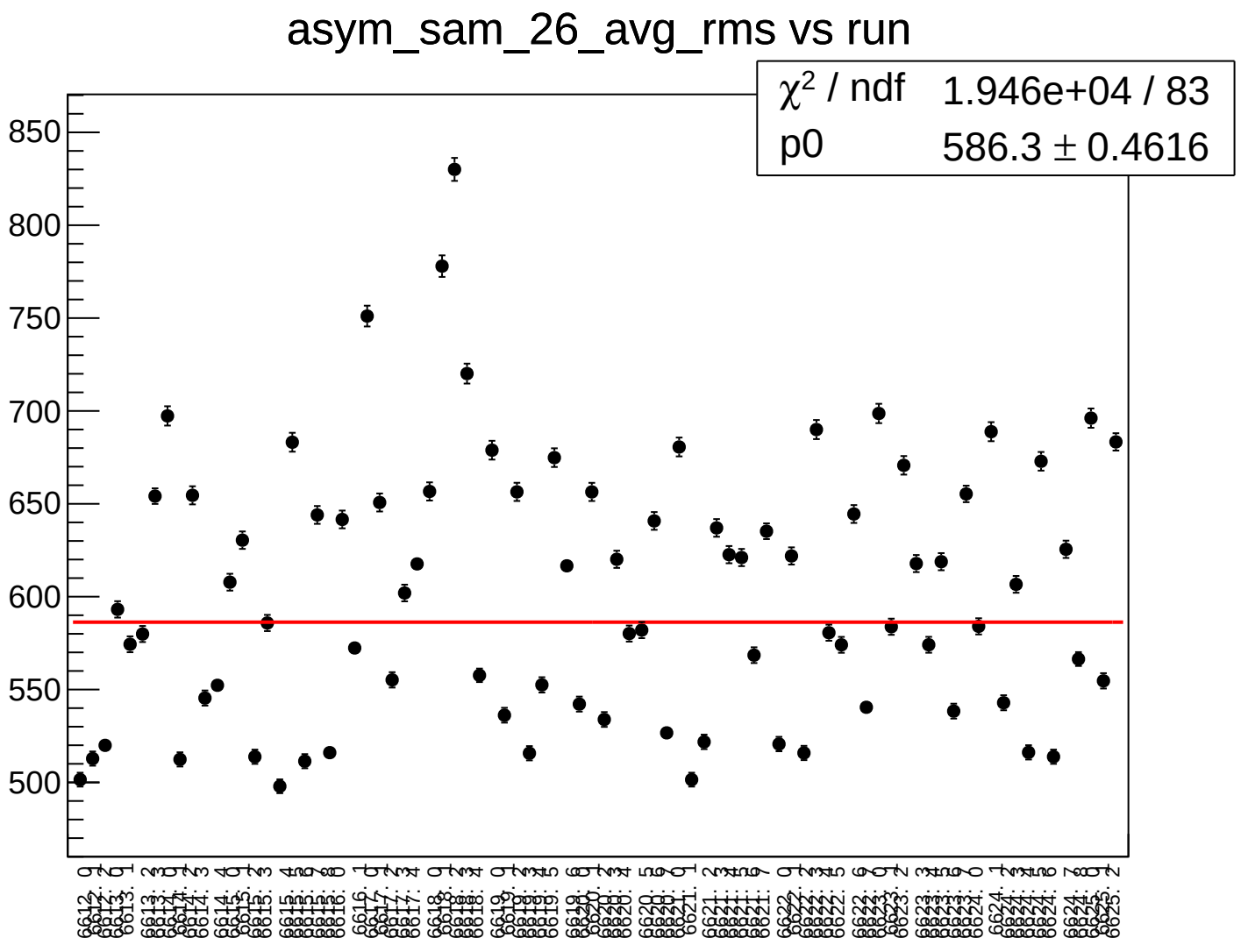

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 73.98 / 83
p0 −654.3 ± 633.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean 260.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

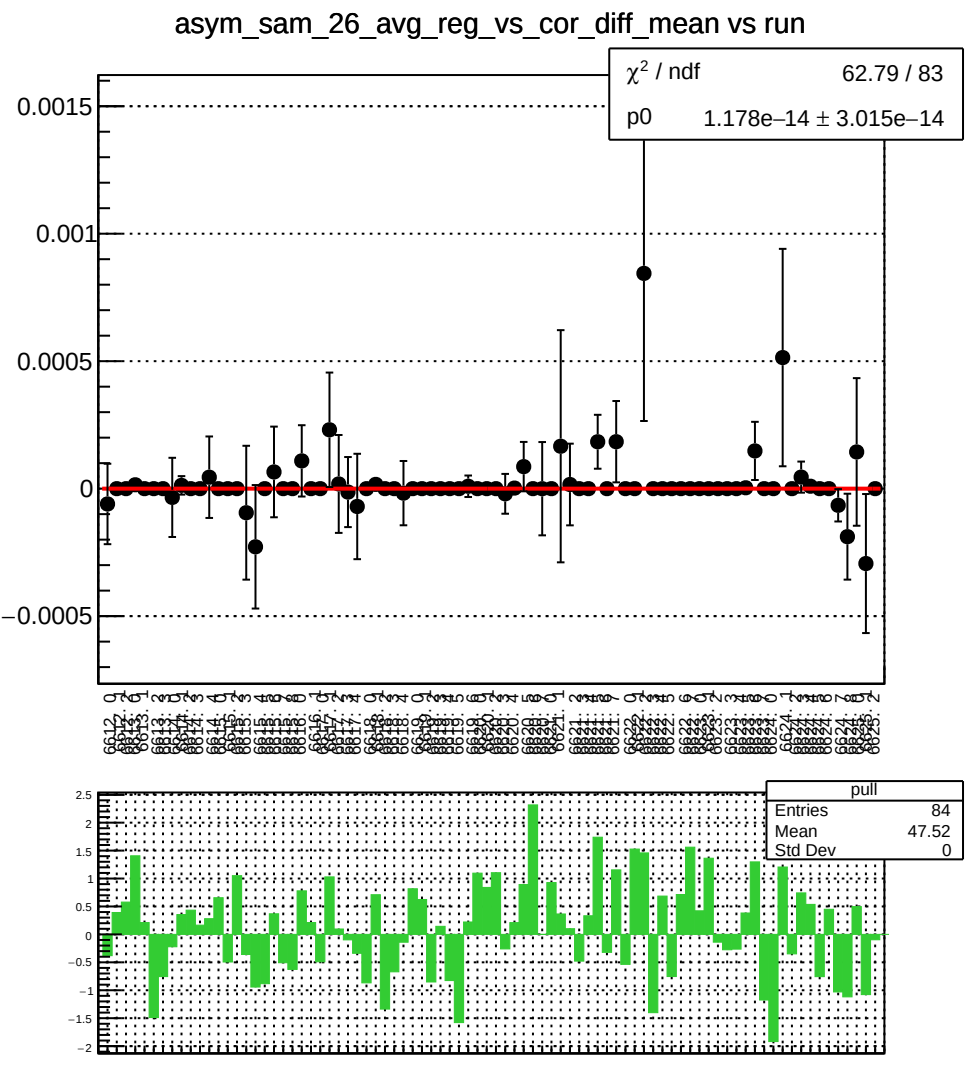

pull1D
Entries 84
Mean 0.009486
Std Dev 0.9384
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

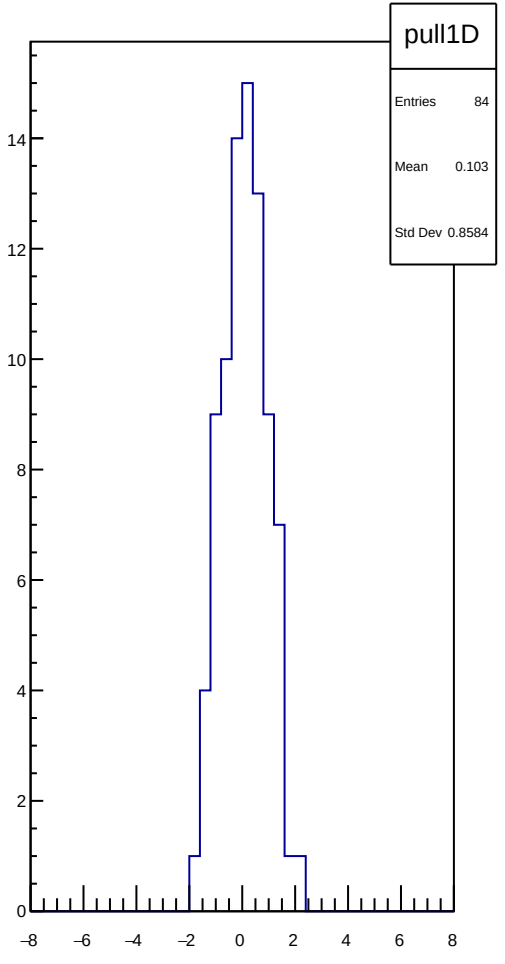

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.32e+04 / 83
p0 570.3 ± 0.4482
750
700
650
600
550
500

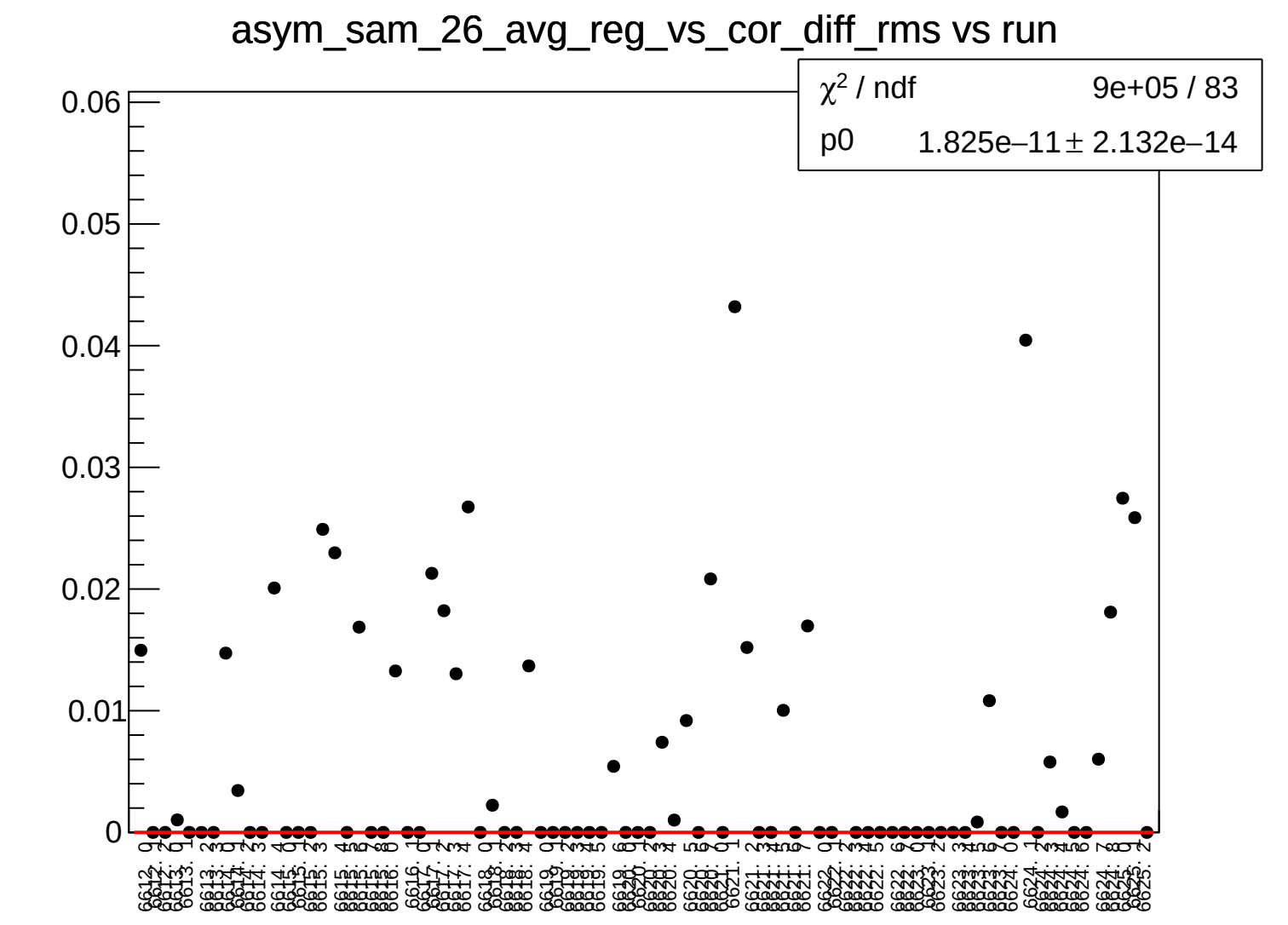

asym_sam_26_avg_mean vs run
χ² / ndf 78.66 / 83
p0 871.1 ± 652.8
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 258.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

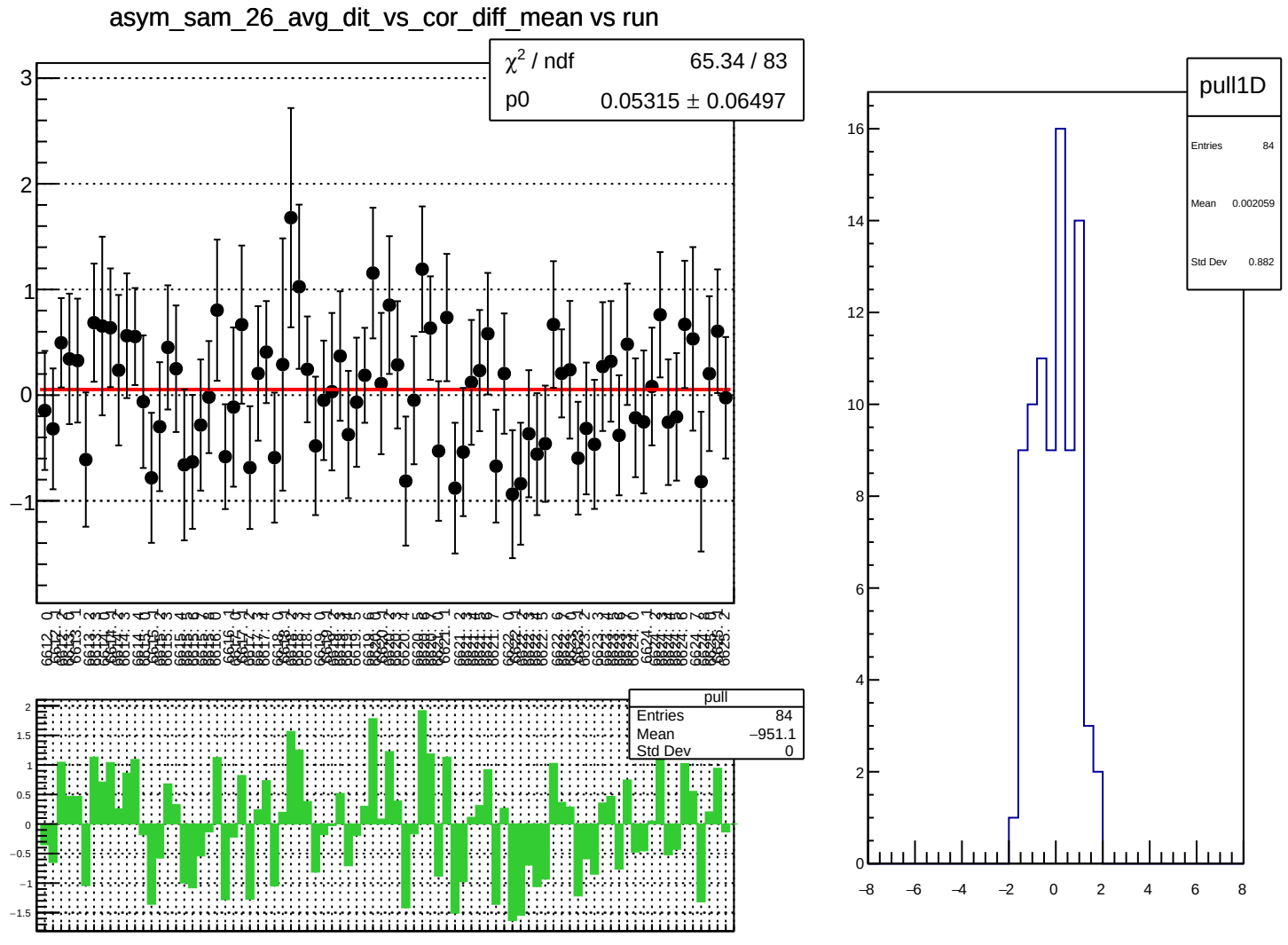

pull1D
Entries 84
Mean −0.009991
Std Dev 0.9676
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

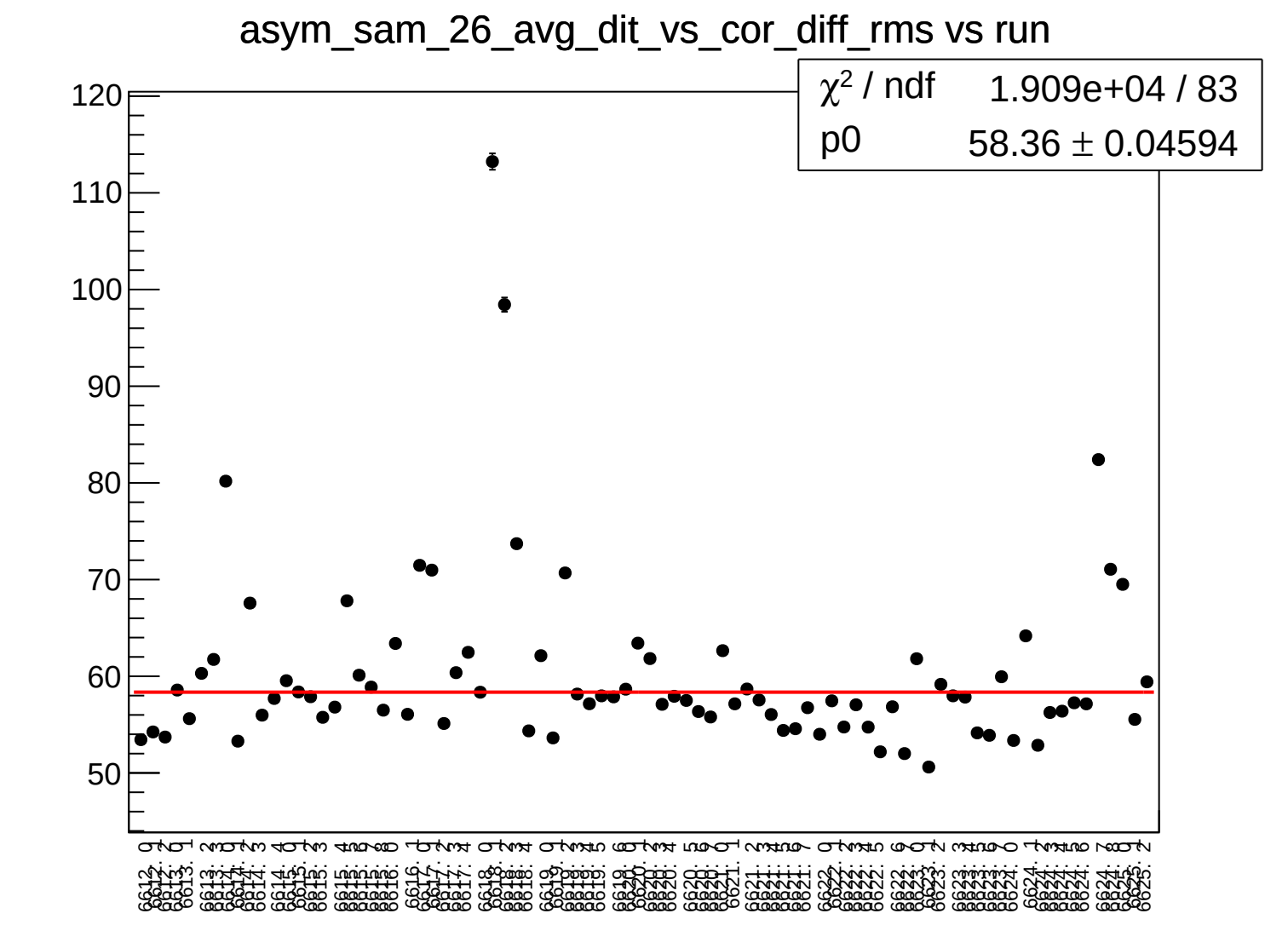

asym_sam_26_avg_rms vs run
χ² / ndf 1.946e+04 / 83
p0 586.3 ± 0.4616
850
800
750
700
650
600
550
500

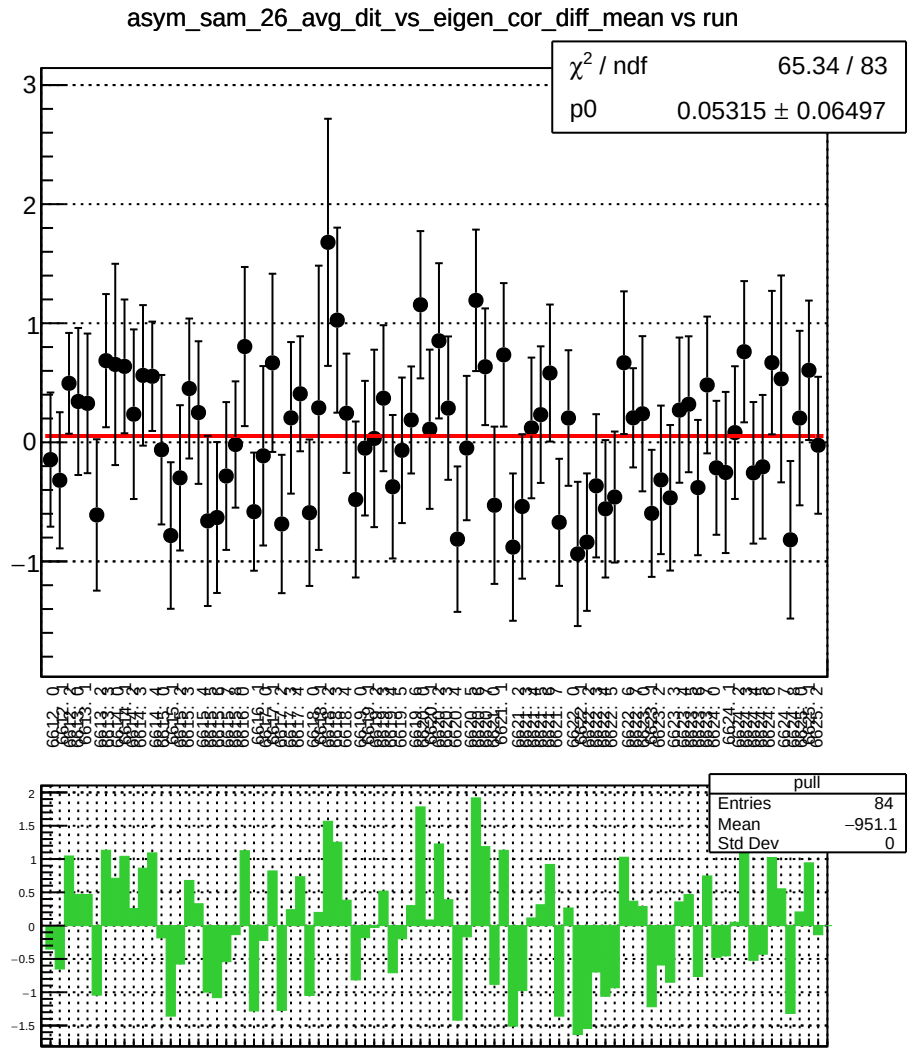

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 62.79 / 83
p0 1.178e−14 ± 3.015e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 84
Mean 47.52
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

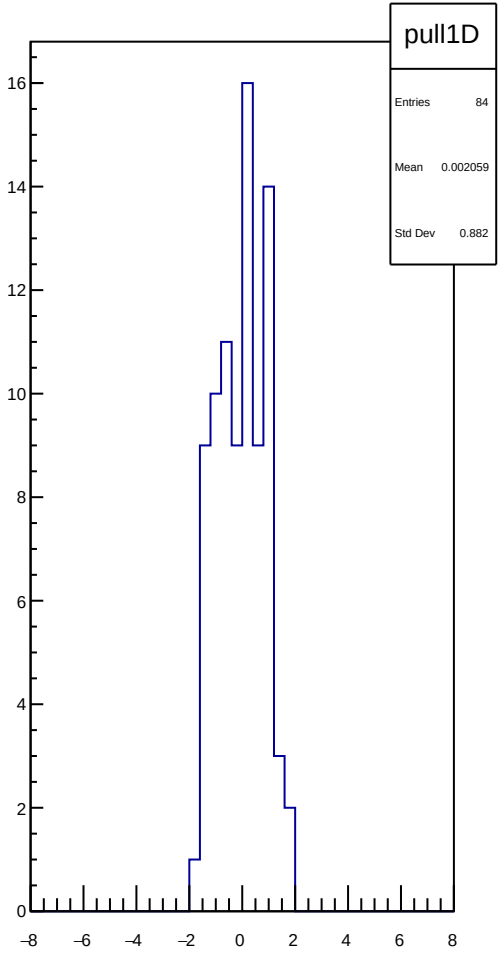

pull1D
Entries 84
Mean 0.103
Std Dev 0.8584
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

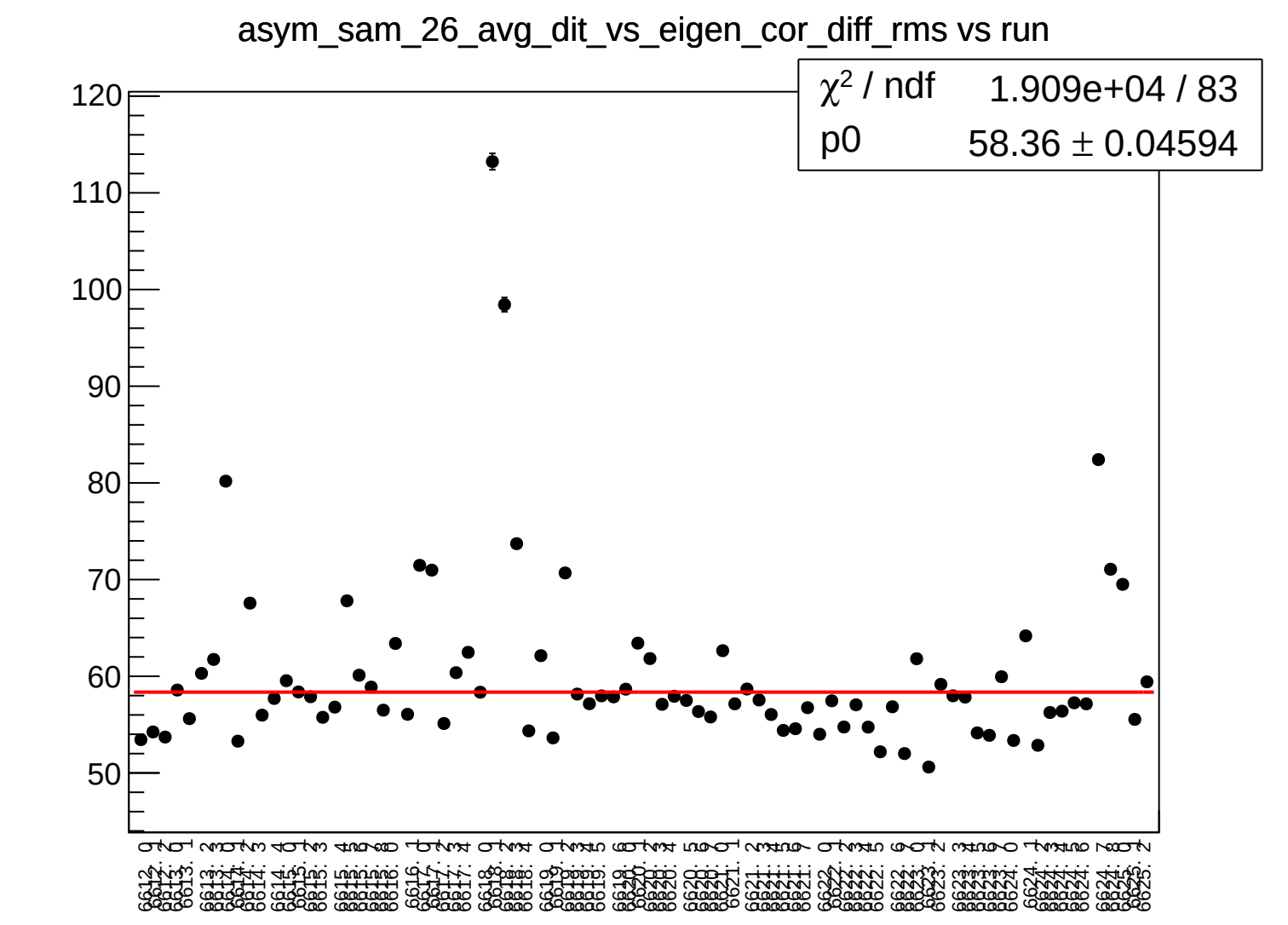

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9e+05 / 83
p0 1.825e−11 ± 2.132e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

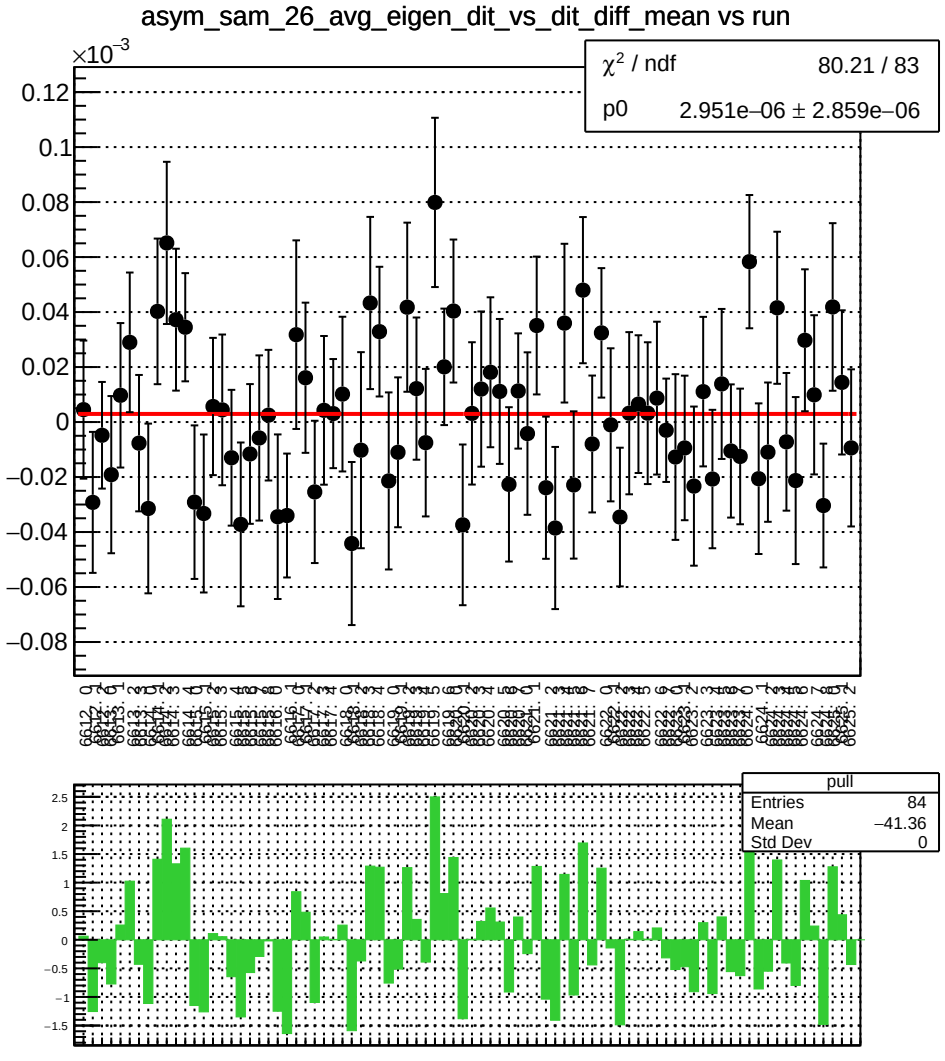

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 65.34 / 83
p0 0.05315 ± 0.06497
pull
Entries 84
Mean −951.1
Std Dev 0
pull1D
Entries 84
Mean 0.002059
Std Dev 0.882

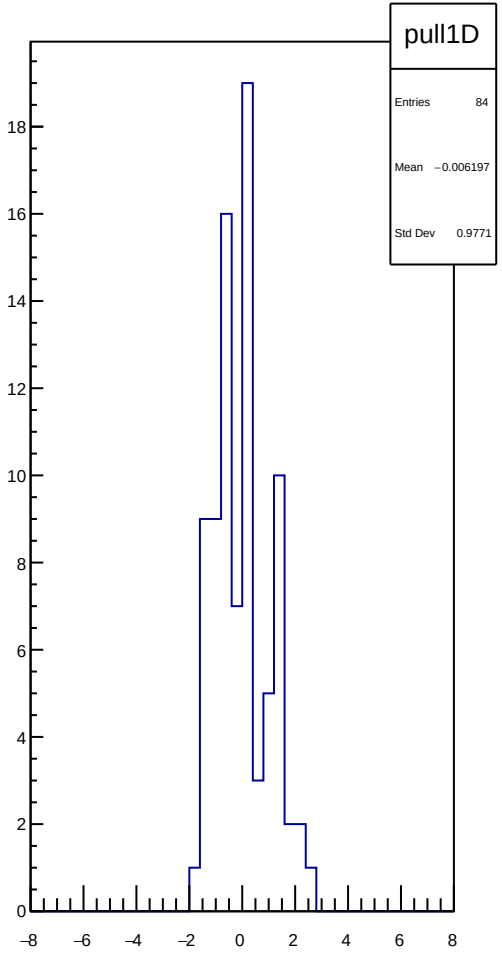

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.909e+04 / 83
p0 58.36 ± 0.04594
120
110
100
90
80
70
60
50

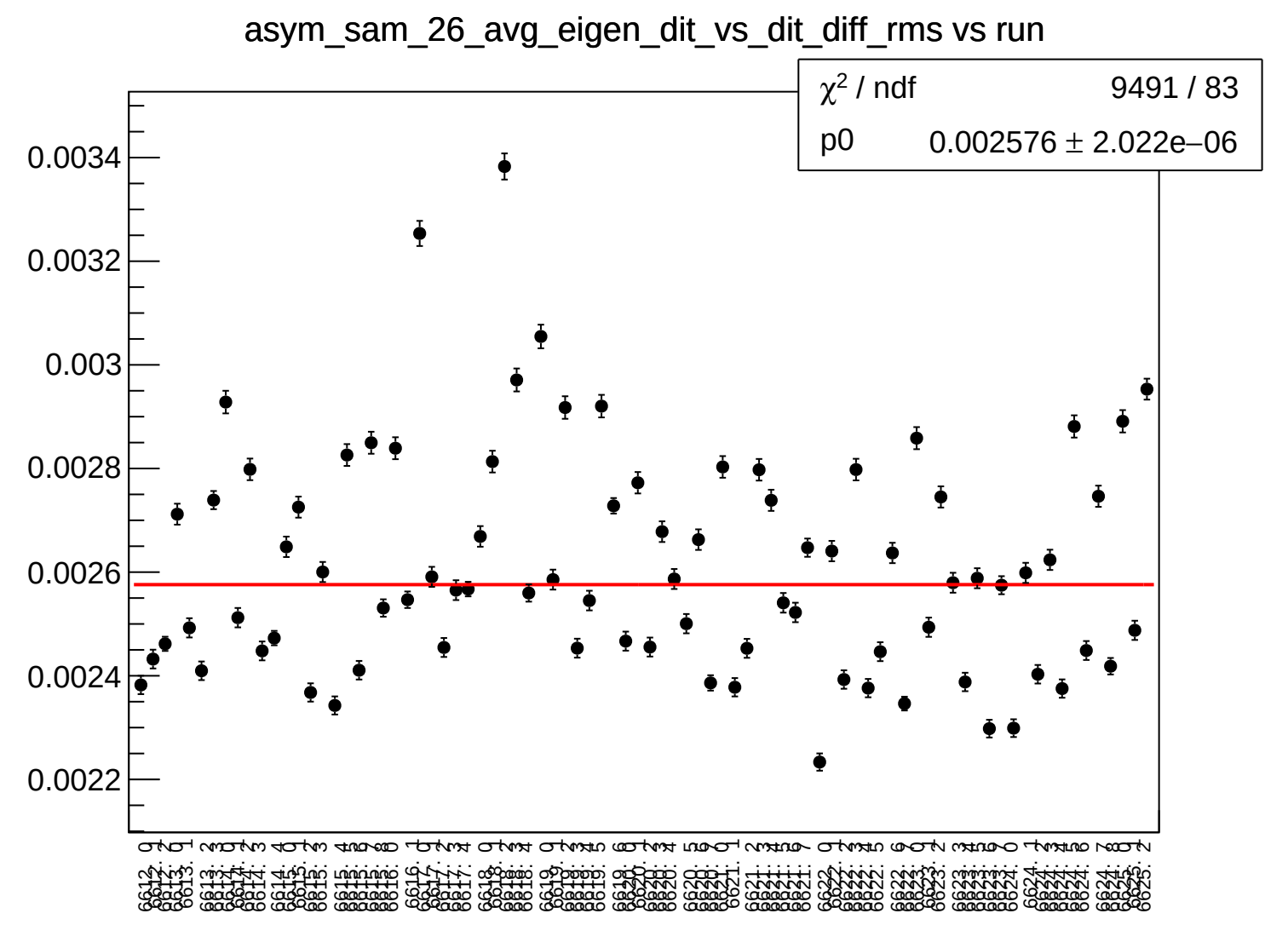

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.34 / 83
p0 0.05315 ± 0.06497
pull
Entries 84
Mean −951.1
Std Dev 0

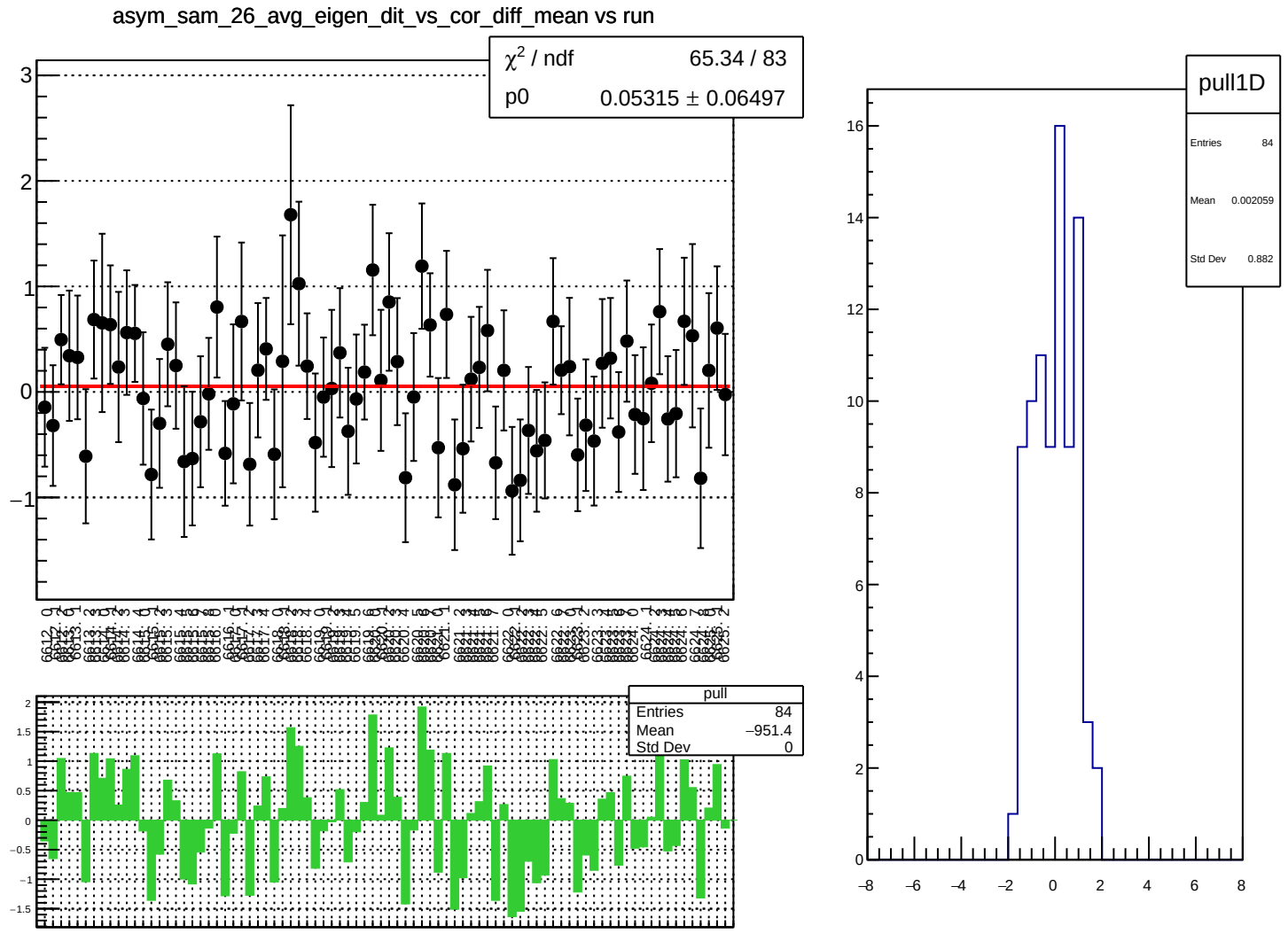

pull1D
Entries 84
Mean 0.002059
Std Dev 0.882

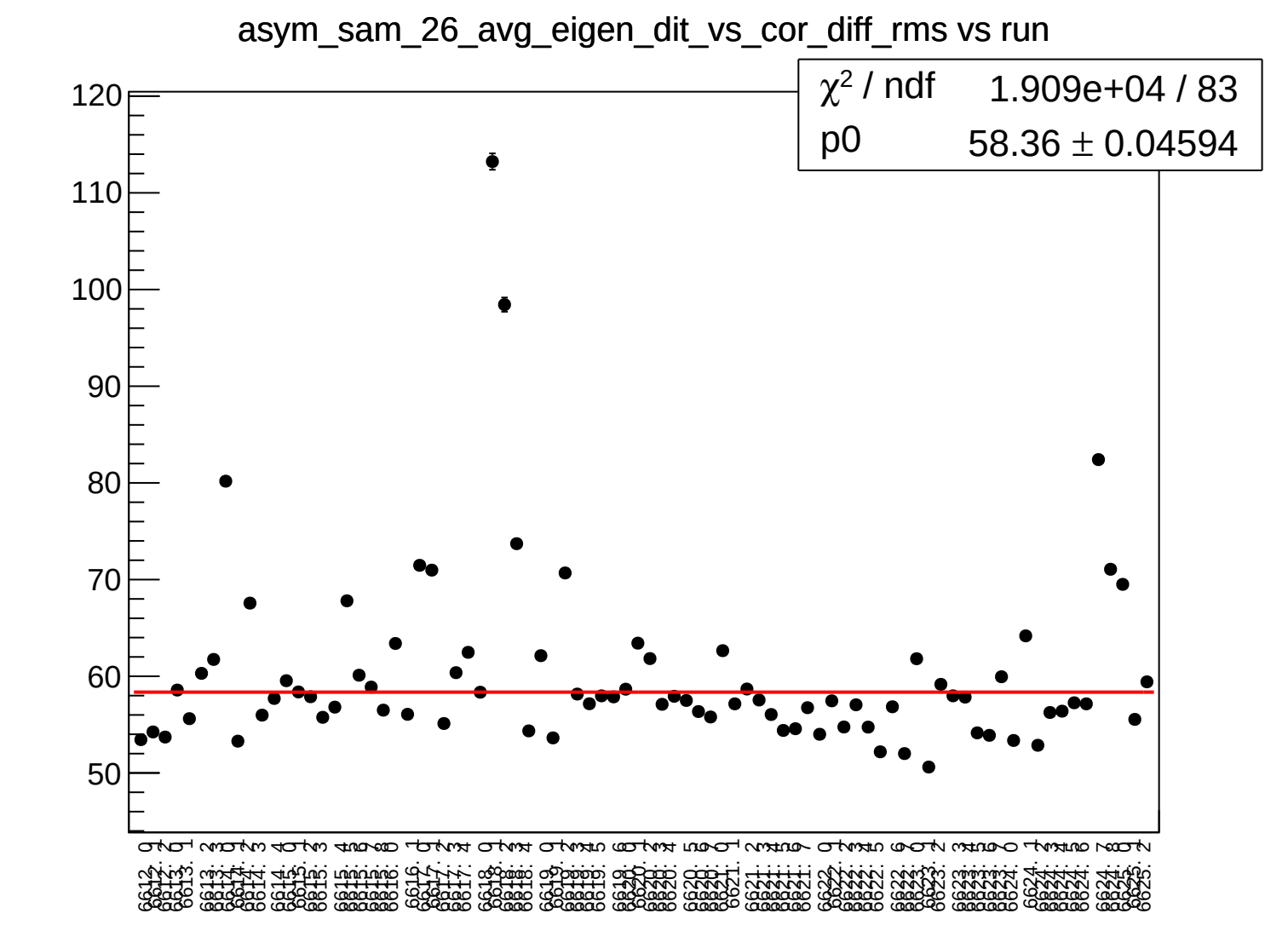

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.909e+04 / 83
p0 58.36 ± 0.04594
120
110
100
90
80
70
60
50

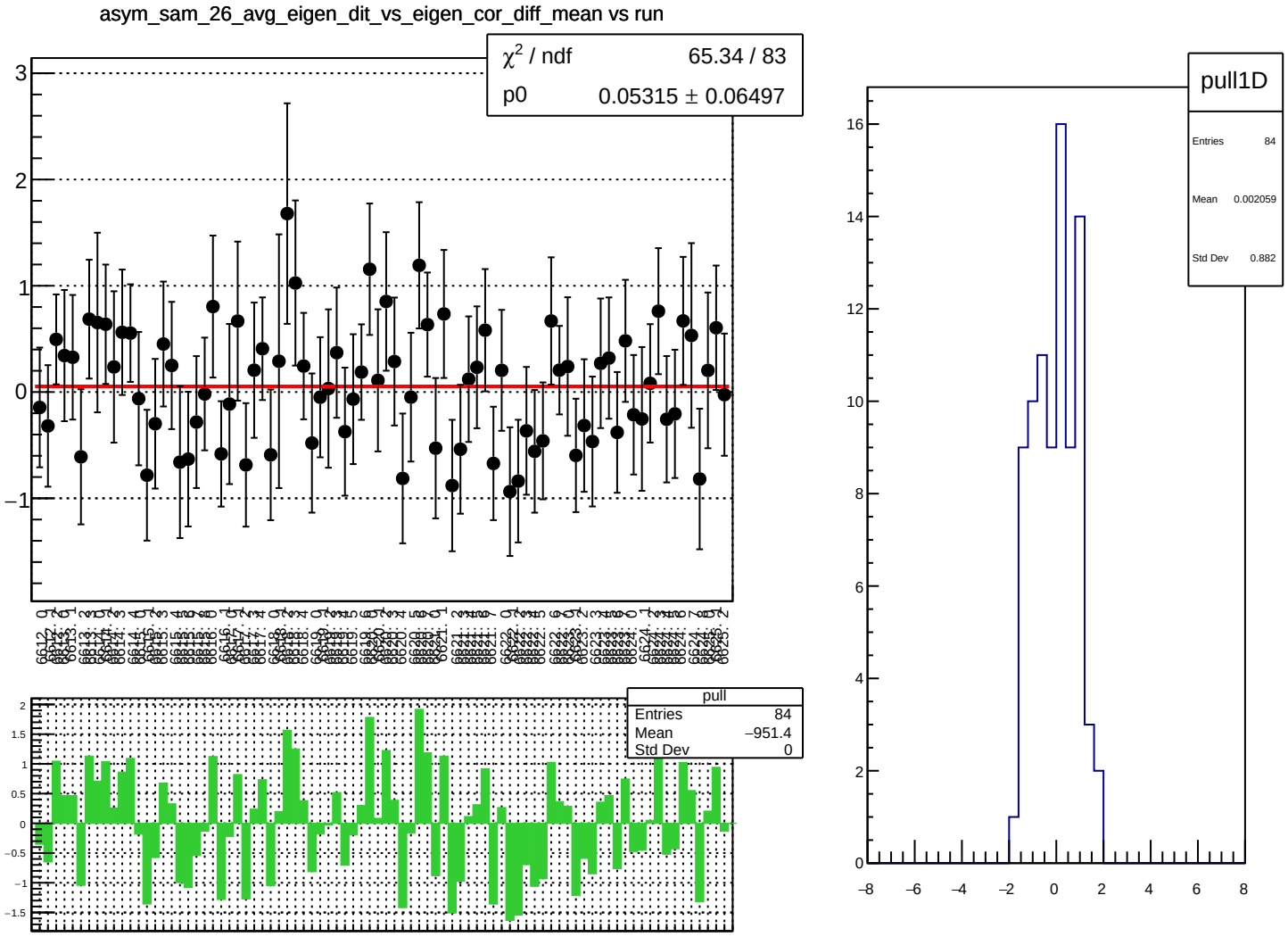

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.21 / 83
p0 2.951e−06 ± 2.859e−06
pull
Entries 84
Mean −41.36
Std Dev 0

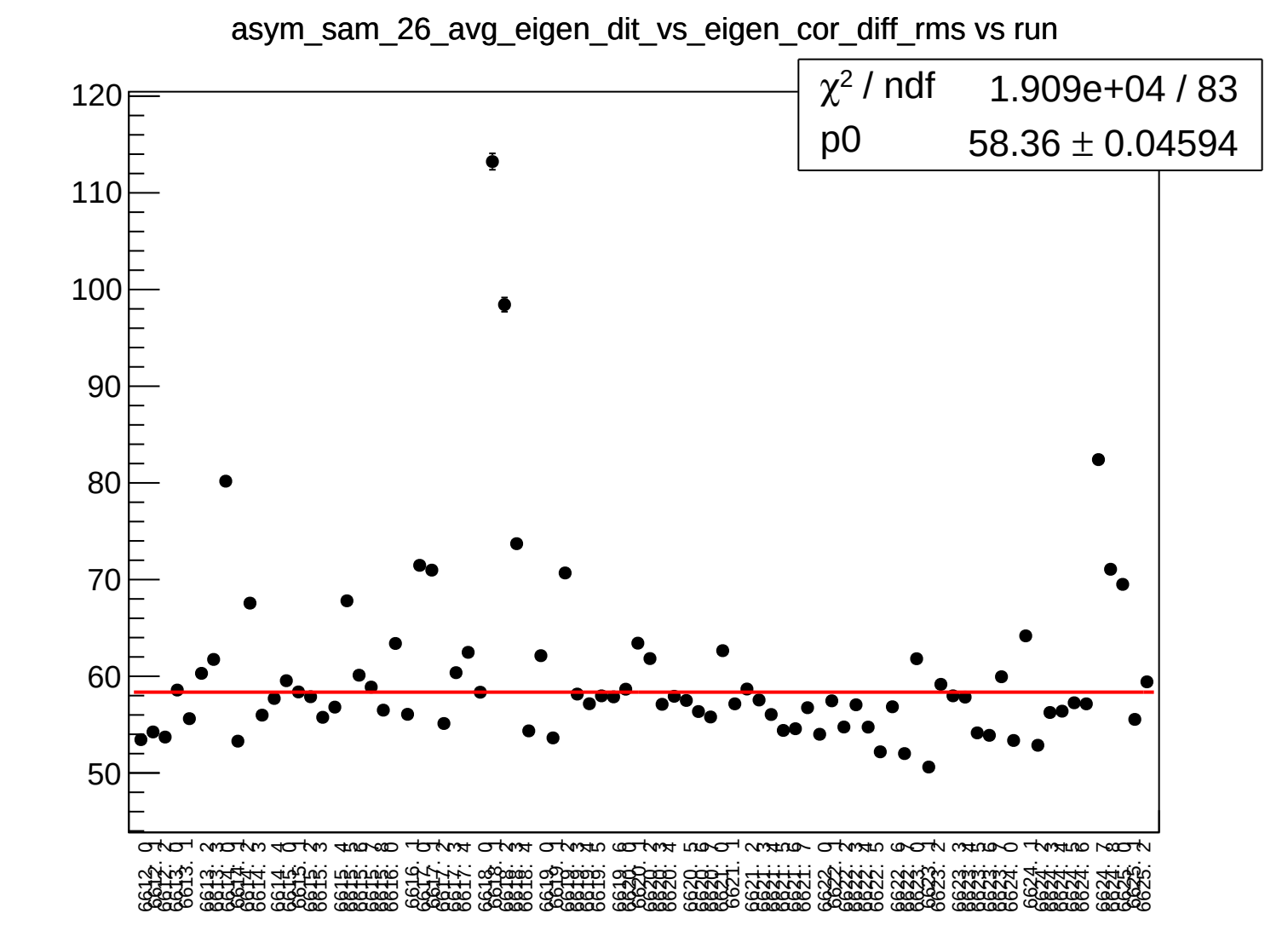

pull1D
Entries 84
Mean −0.006197
Std Dev 0.9771

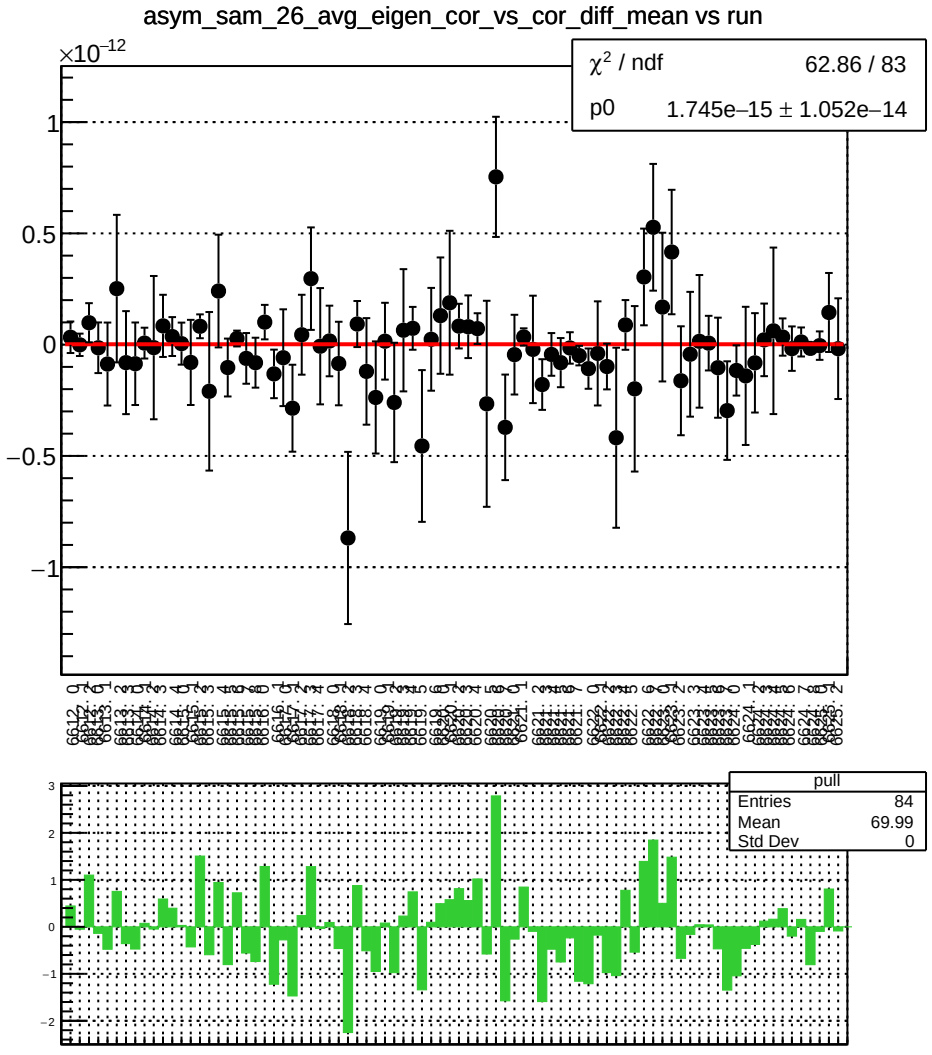

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9491 / 83
p0 0.002576 ± 2.022e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

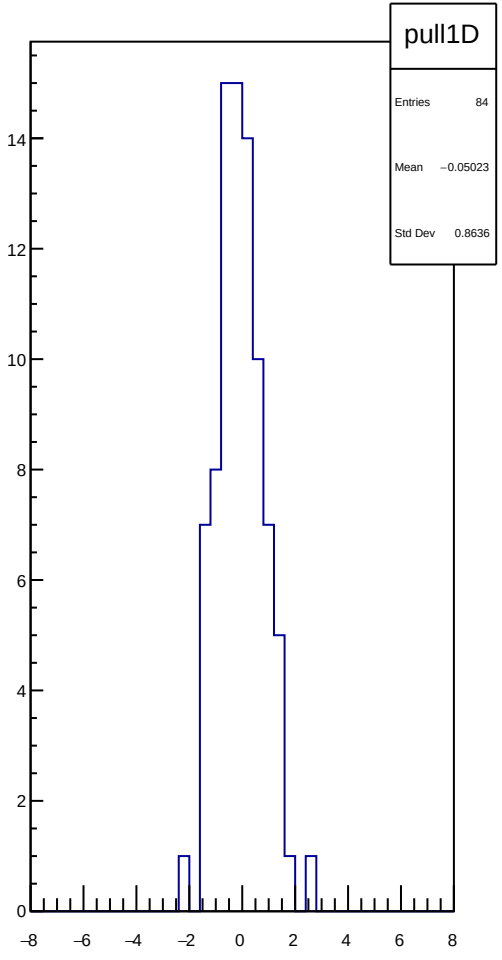

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.34 / 83
p0 0.05315 ± 0.06497
pull
Entries 84
Mean −951.4
Std Dev 0
pull1D
Entries 84
Mean 0.002059
Std Dev 0.882

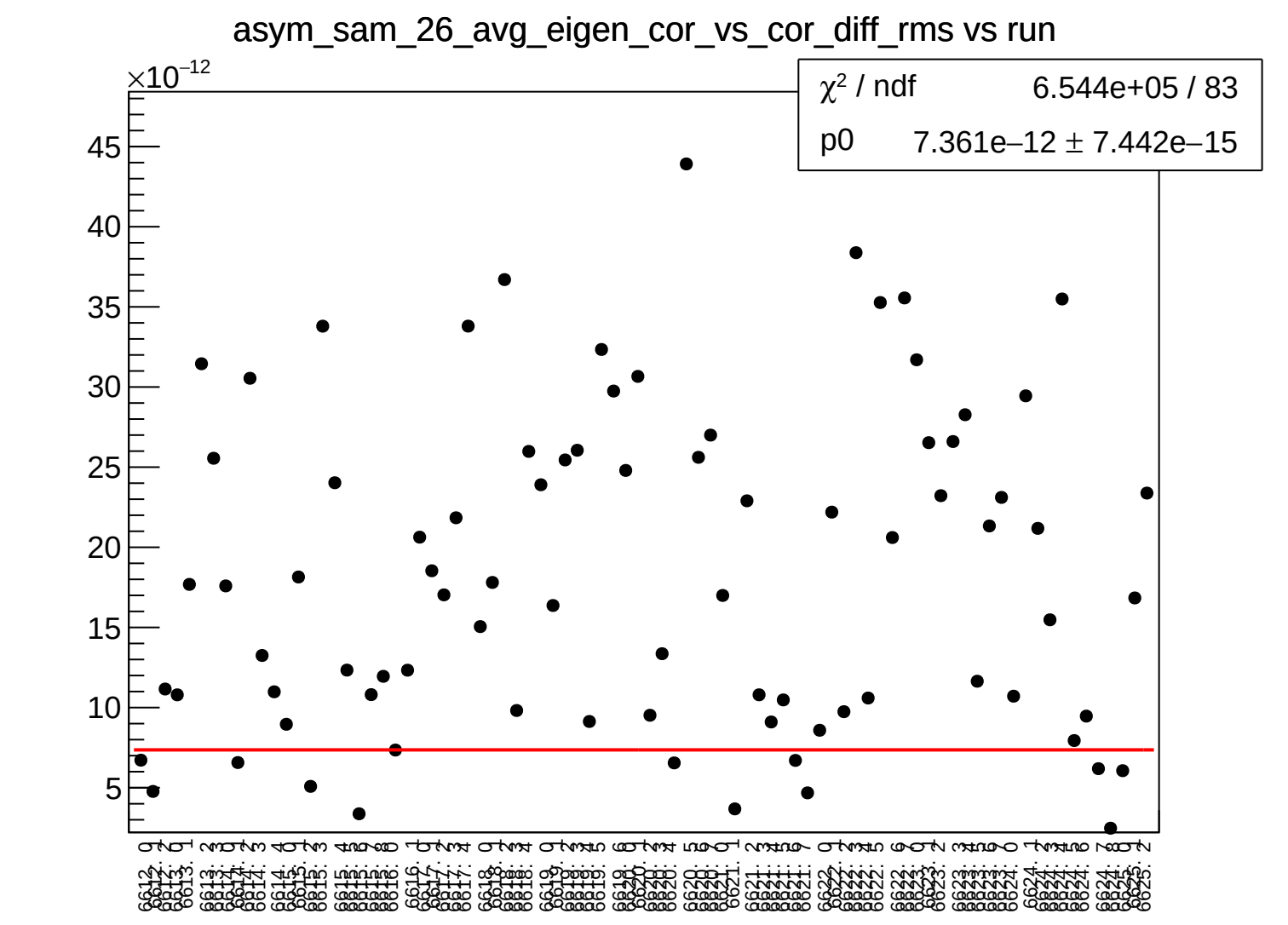

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.909e+04 / 83
p0 58.36 ± 0.04594
120
110
100
90
80
70
60
50

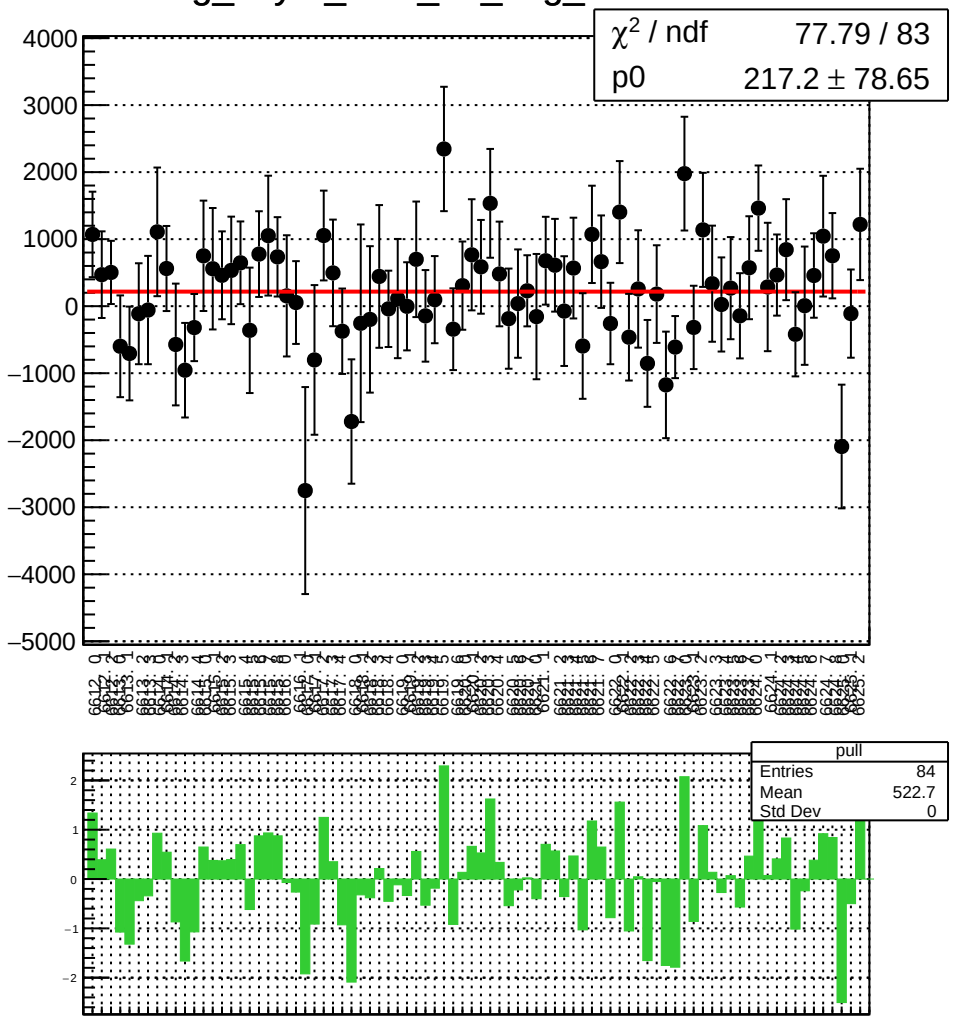

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.34 / 83
p0 0.05315 ± 0.06497
pull
Entries 84
Mean −951.4
Std Dev 0
pull1D
Entries 84
Mean 0.002059
Std Dev 0.882

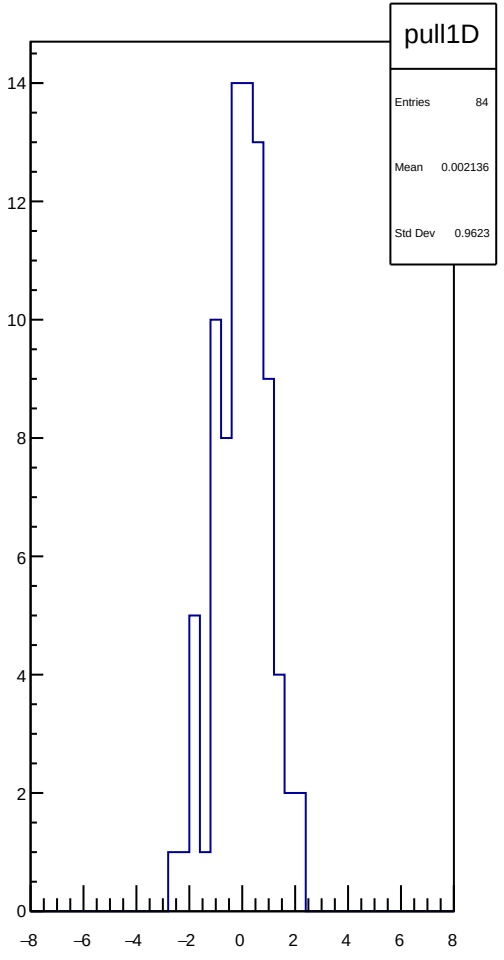

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.909e+04 / 83
p0 58.36 ± 0.04594
120
110
100
90
80
70
60
50

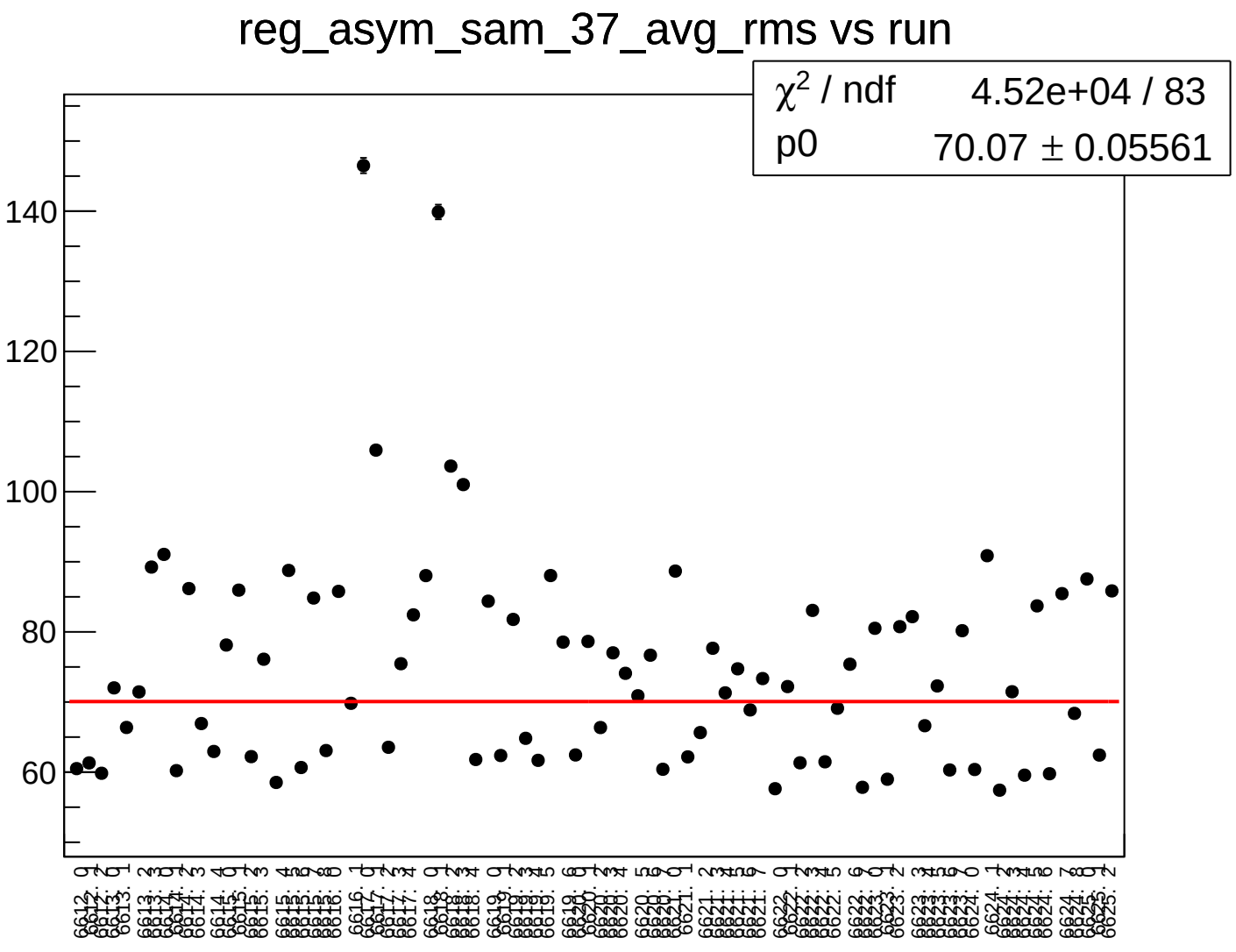

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 62.86 / 83
p0 1.745e−15 ± 1.052e−14
pull
Entries 84
Mean 69.99
Std Dev 0

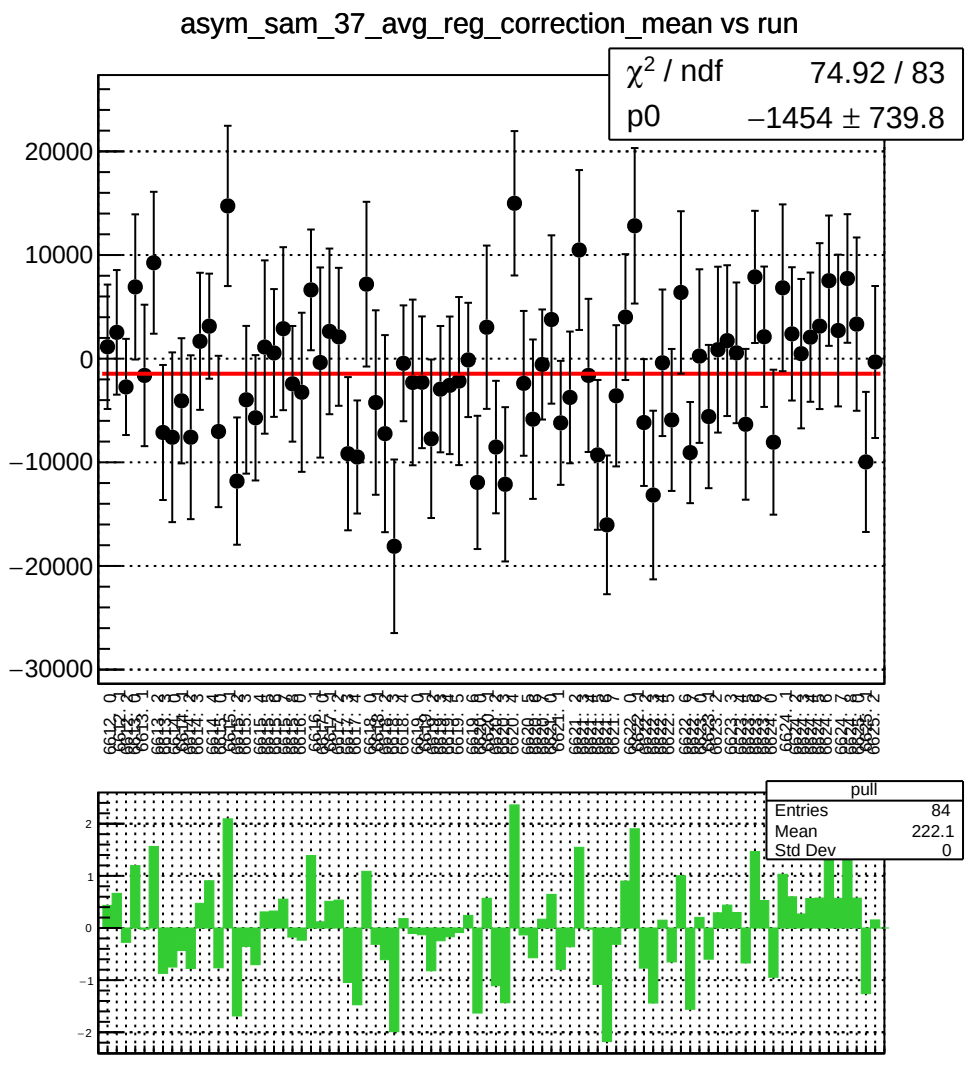

pull1D
Entries 84
Mean −0.05023
Std Dev 0.8636

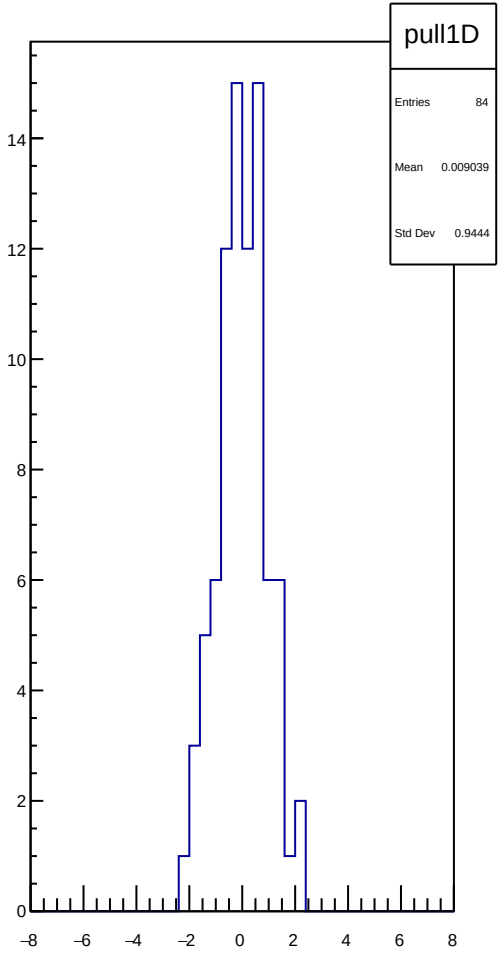

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.544e+05 / 83
p0 7.361e−12 ± 7.442e−15
45
40
35
30
25
20
15
10
5

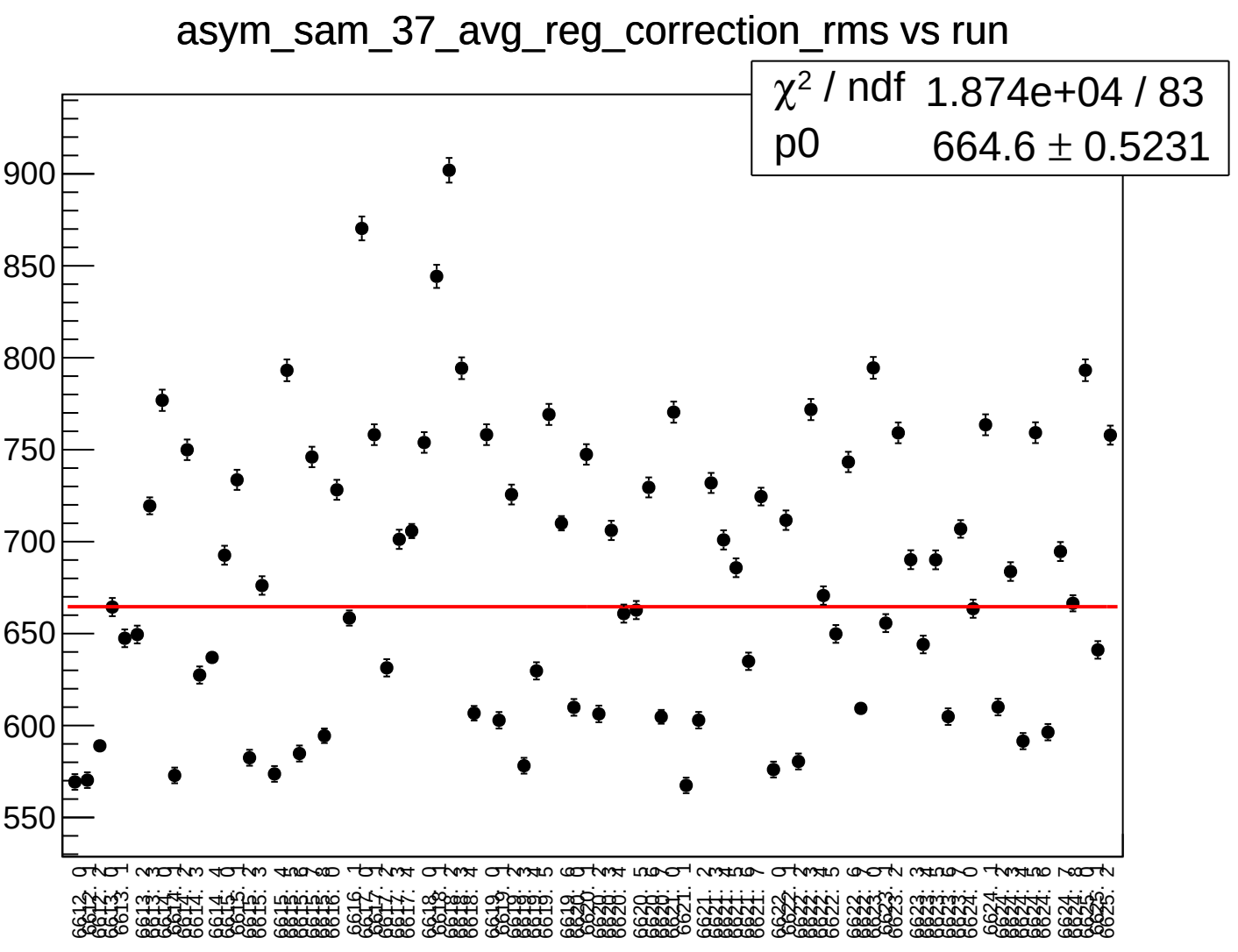

reg_asym_sam_37_avg_mean vs run
χ^2 / ndf 77.79 / 83
p0 217.2 ± 78.65
pull
Entries 84
Mean 522.7
Std Dev 0

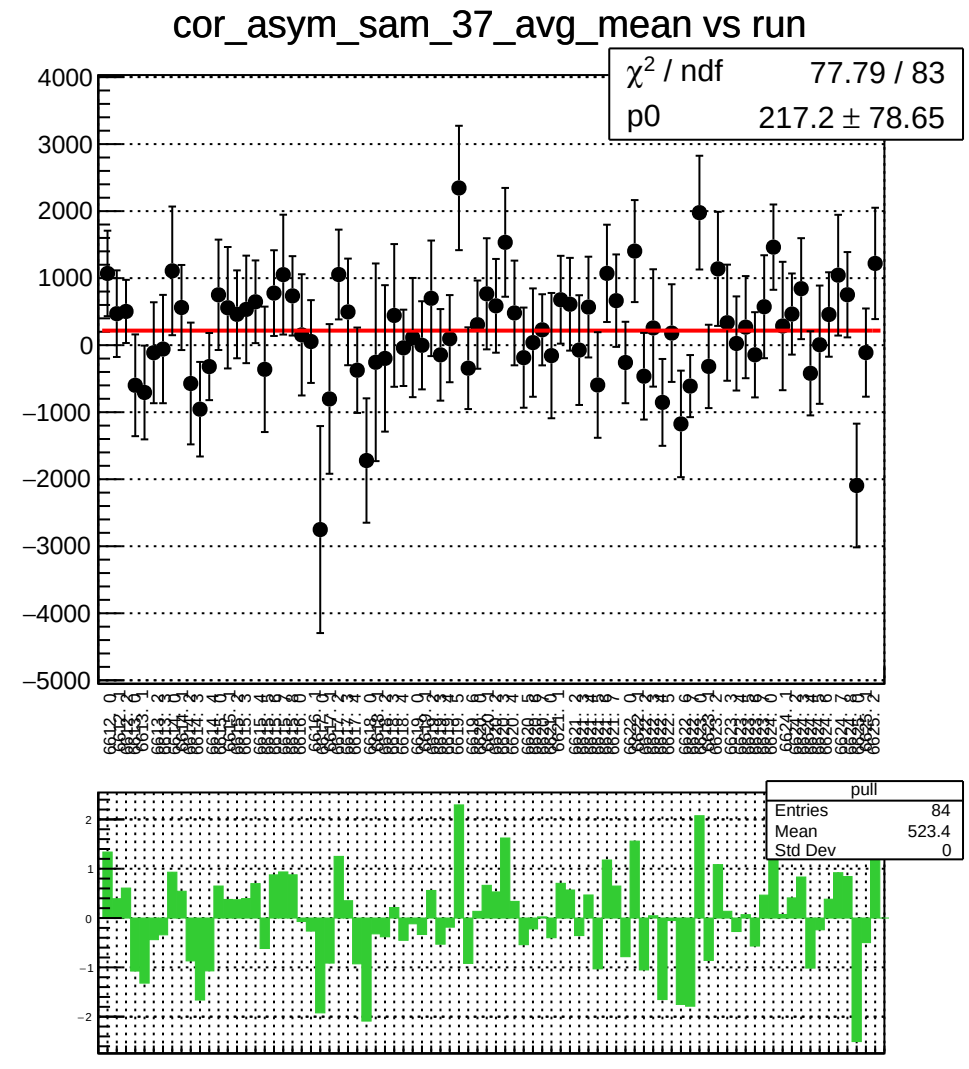

pull1D
Entries 84
Mean 0.002136
Std Dev 0.9623

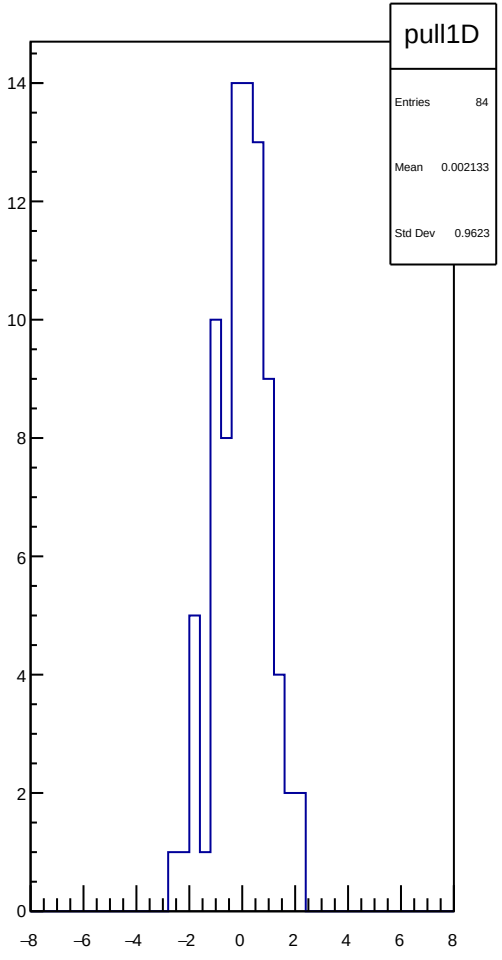

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 4.52e+04 / 83
p0 70.07 ± 0.05561
140
120
100
80
60

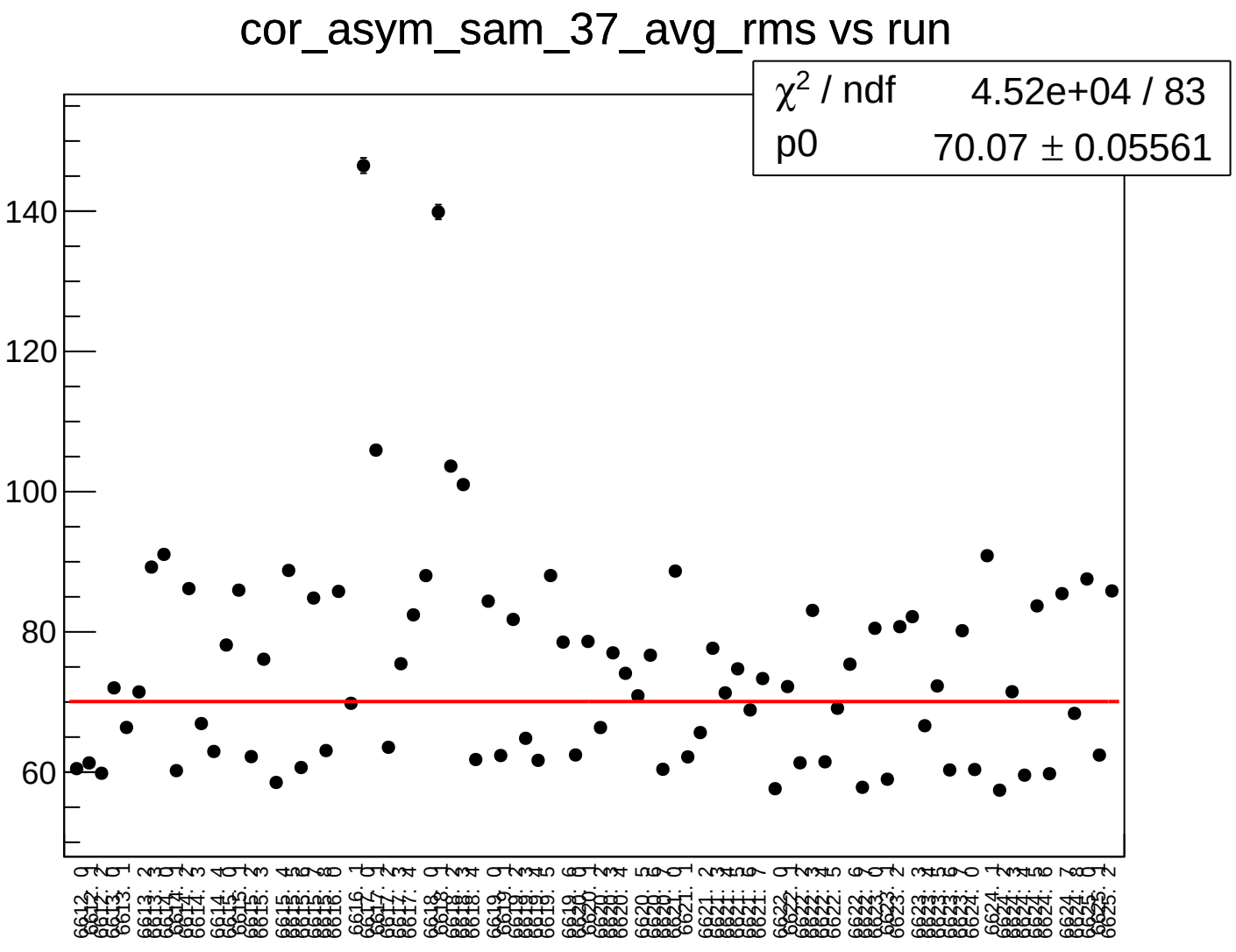

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 74.92 / 83
p0 −1454 ± 739.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 222.1
Std Dev 0
2
1
0
−1
−2

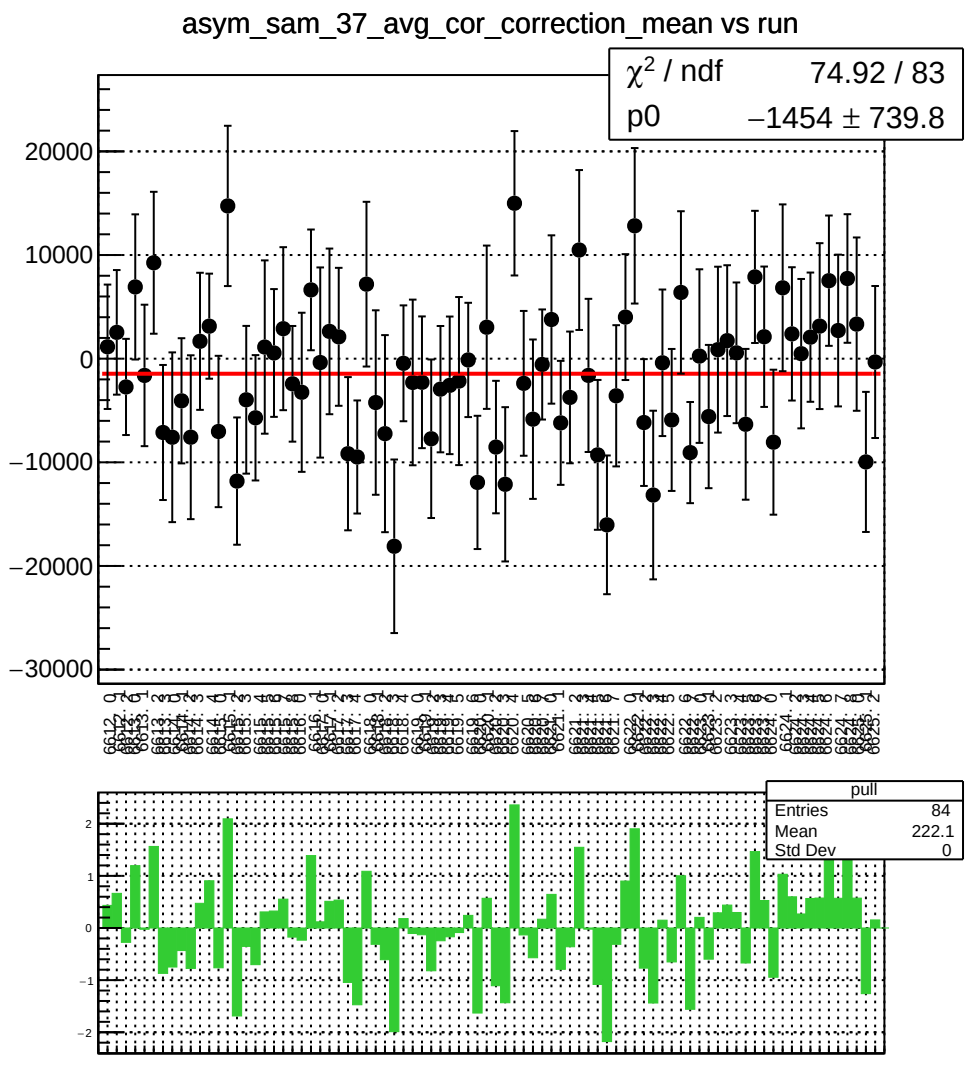

pull1D
Entries 84
Mean 0.009039
Std Dev 0.9444
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

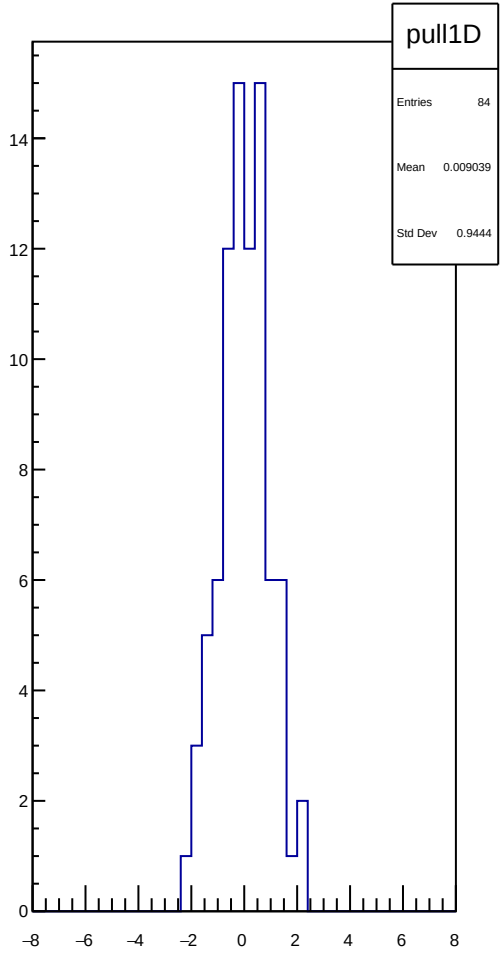

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.874e+04 / 83
p0 664.6 ± 0.5231
900
850
800
750
700
650
600
550

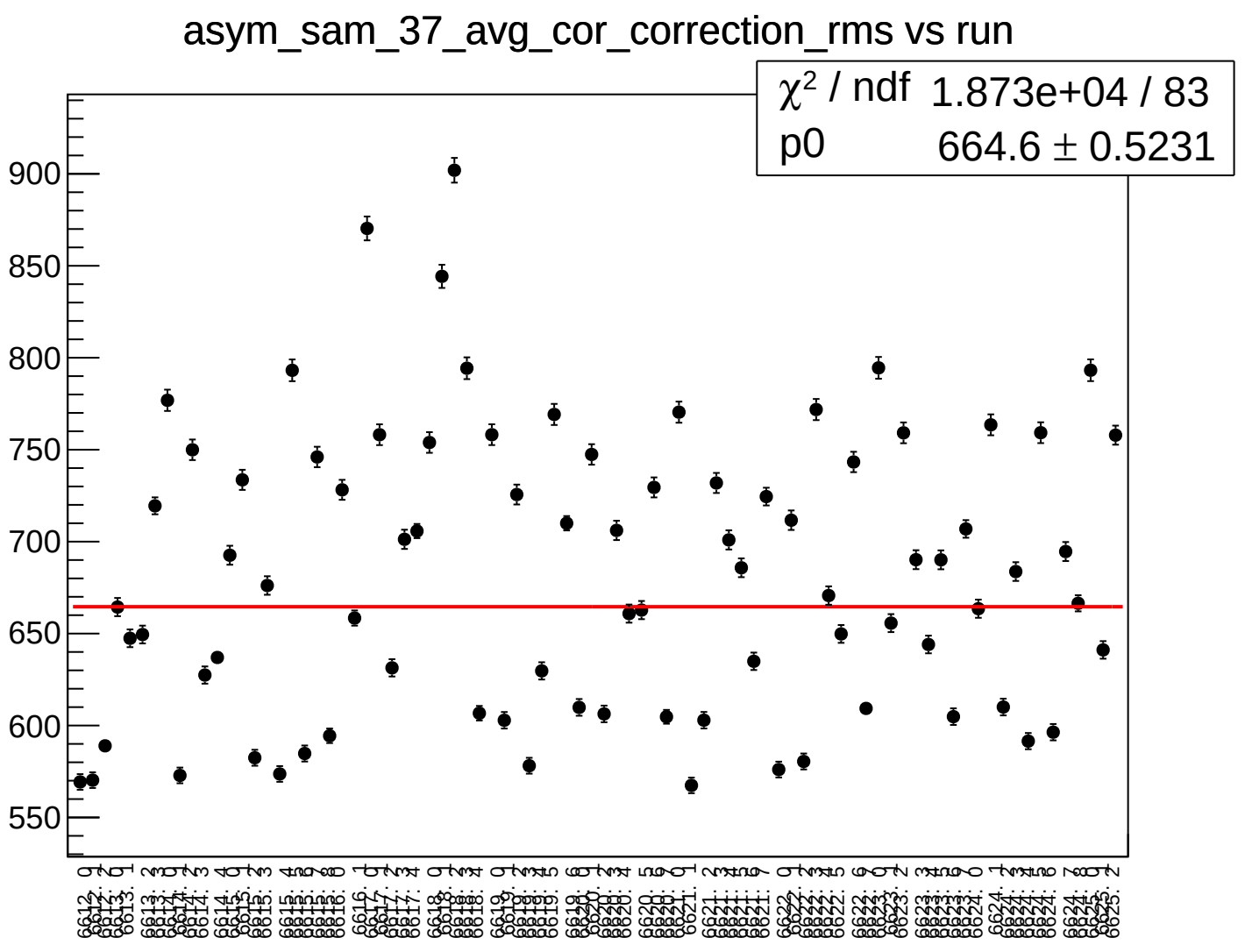

cor_asym_sam_37_avg_mean vs run
χ² / ndf 77.79 / 83
p0 217.2 ± 78.65
pull
Entries 84
Mean 523.4
Std Dev 0

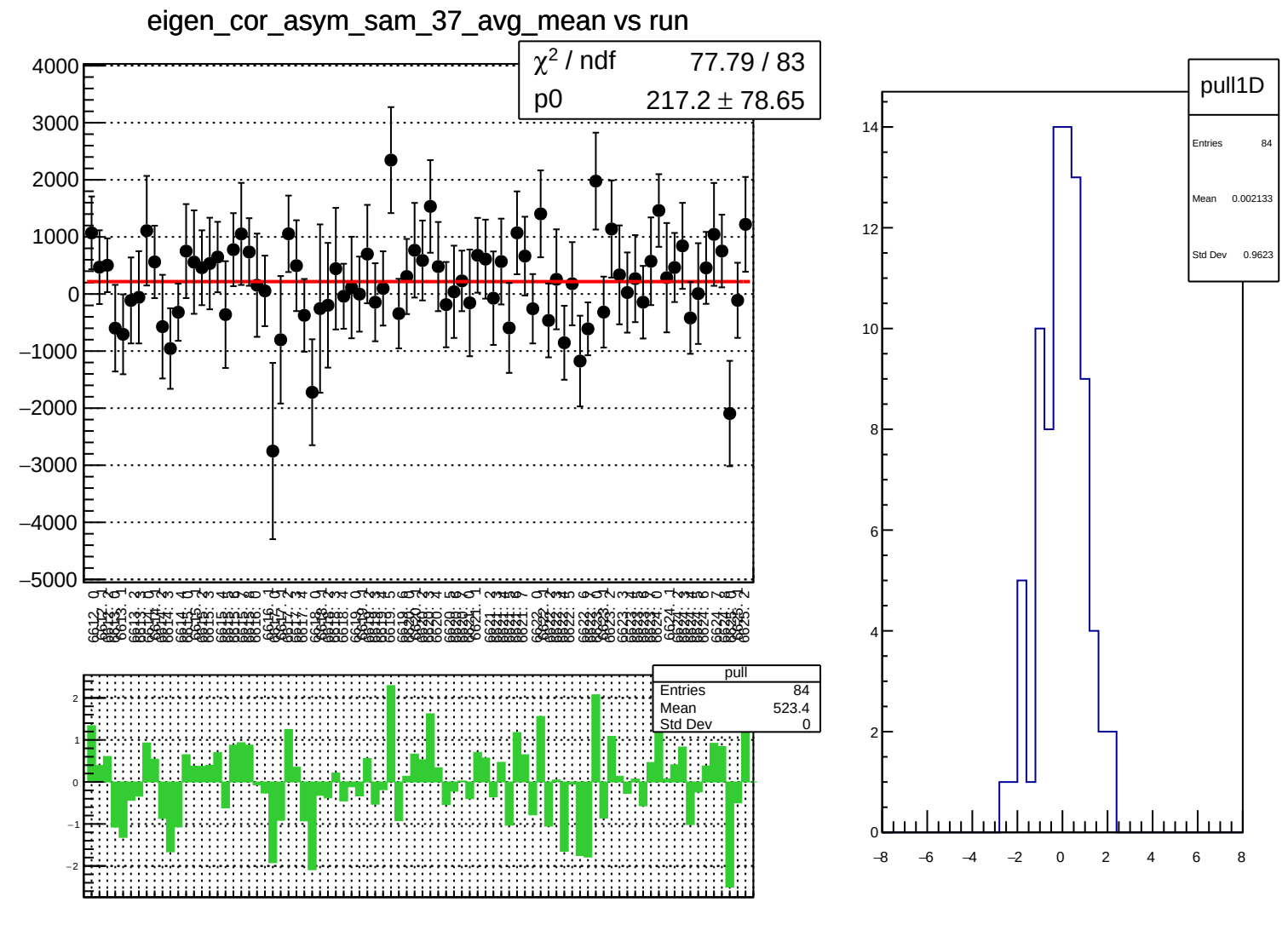

pull1D
Entries 84
Mean 0.002133
Std Dev 0.9623

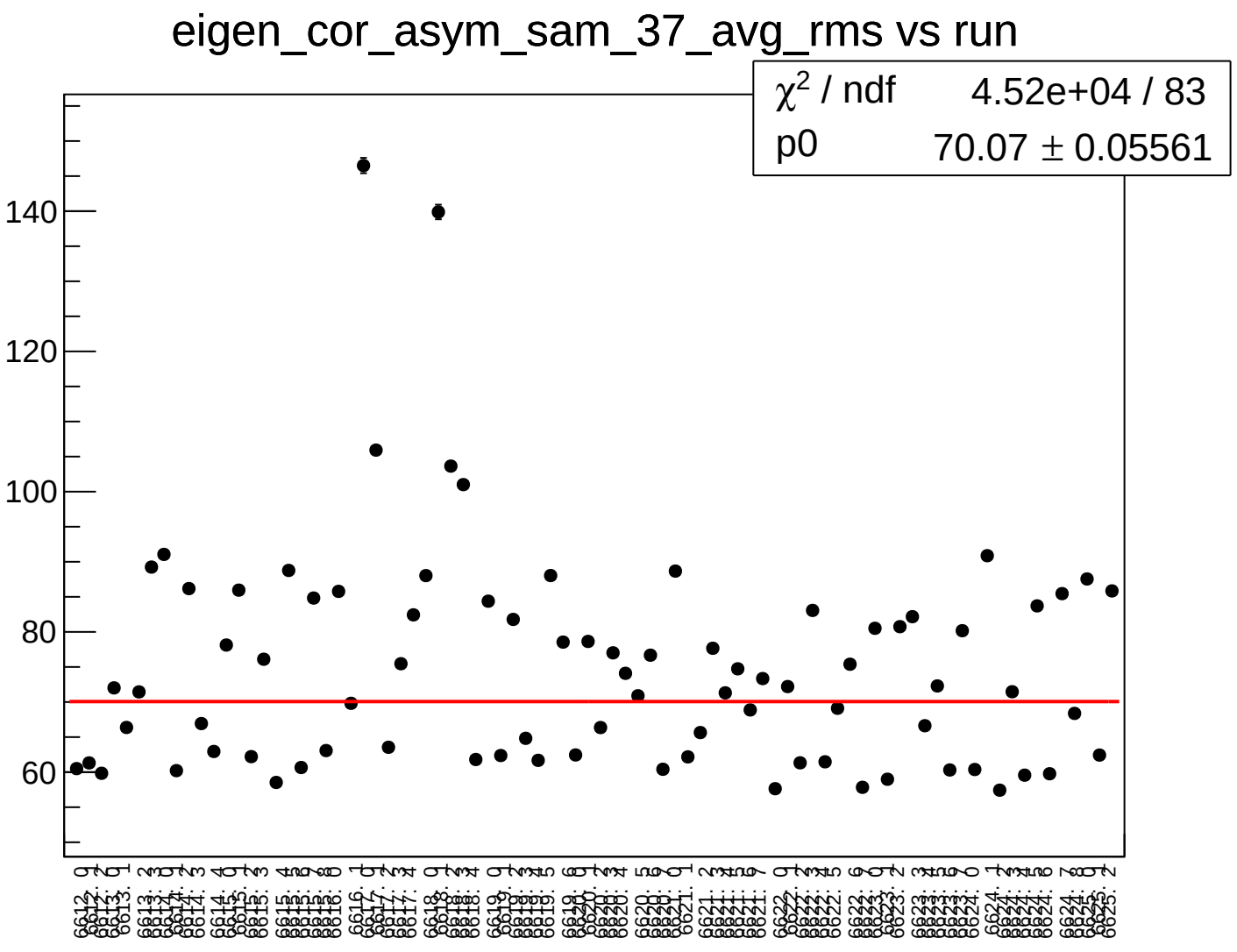

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 4.52e+04 / 83
p0 70.07 ± 0.05561
140
120
100
80
60

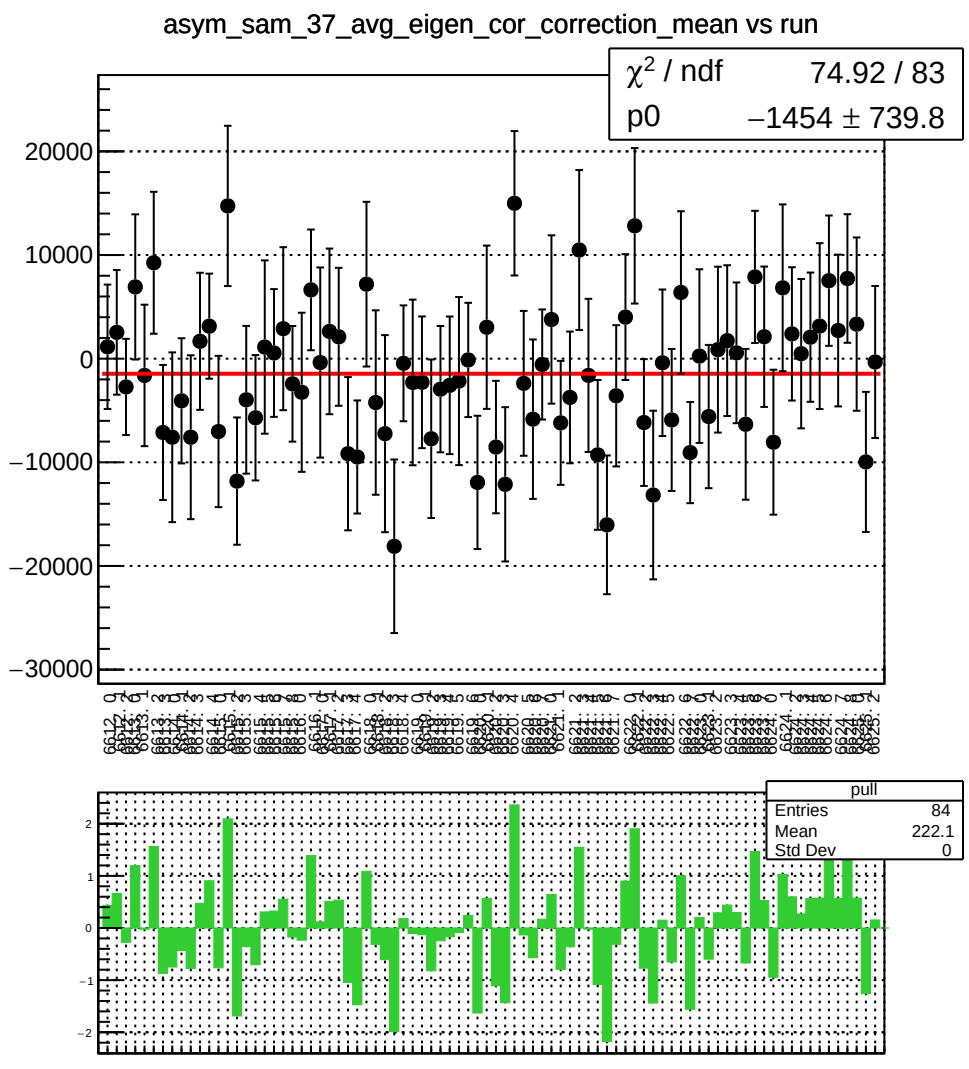

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 74.92 / 83
p0 −1454 ± 739.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 222.1
Std Dev 0
2
1
0
−1
−2

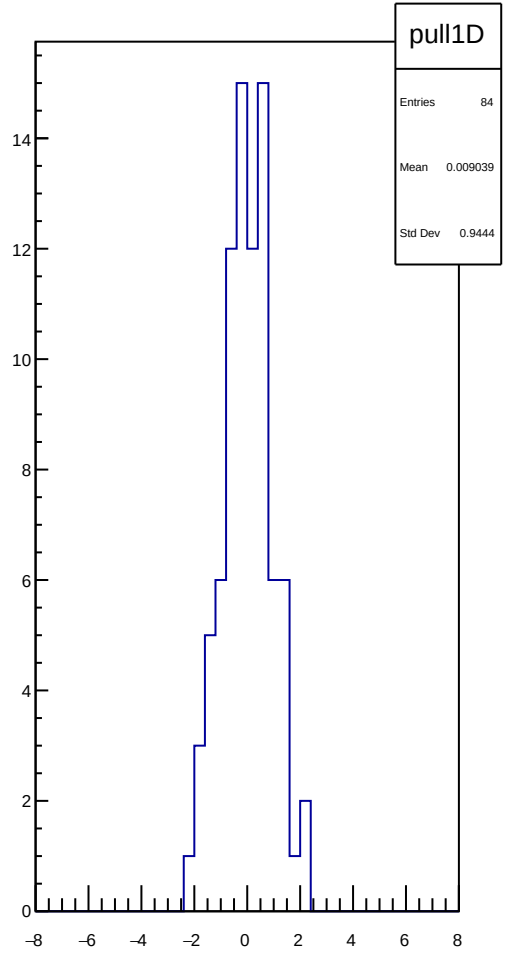

pull1D
Entries 84
Mean 0.009039
Std Dev 0.9444
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

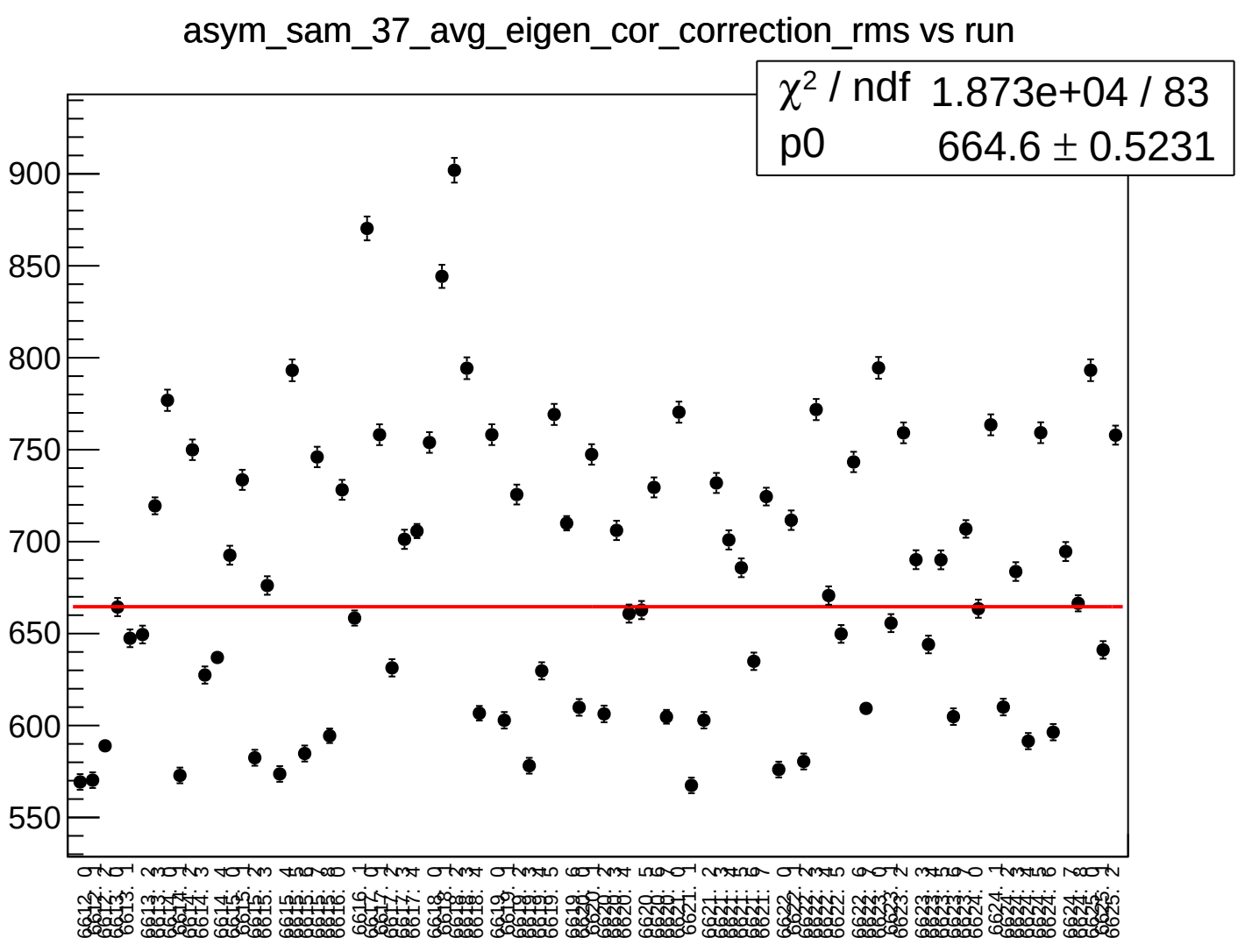

asym_sam_37_avg_cor_correction_rms vs run
χ^2 / ndf 1.873e+04 / 83
p0 664.6 ± 0.5231
900
850
800
750
700
650
600
550

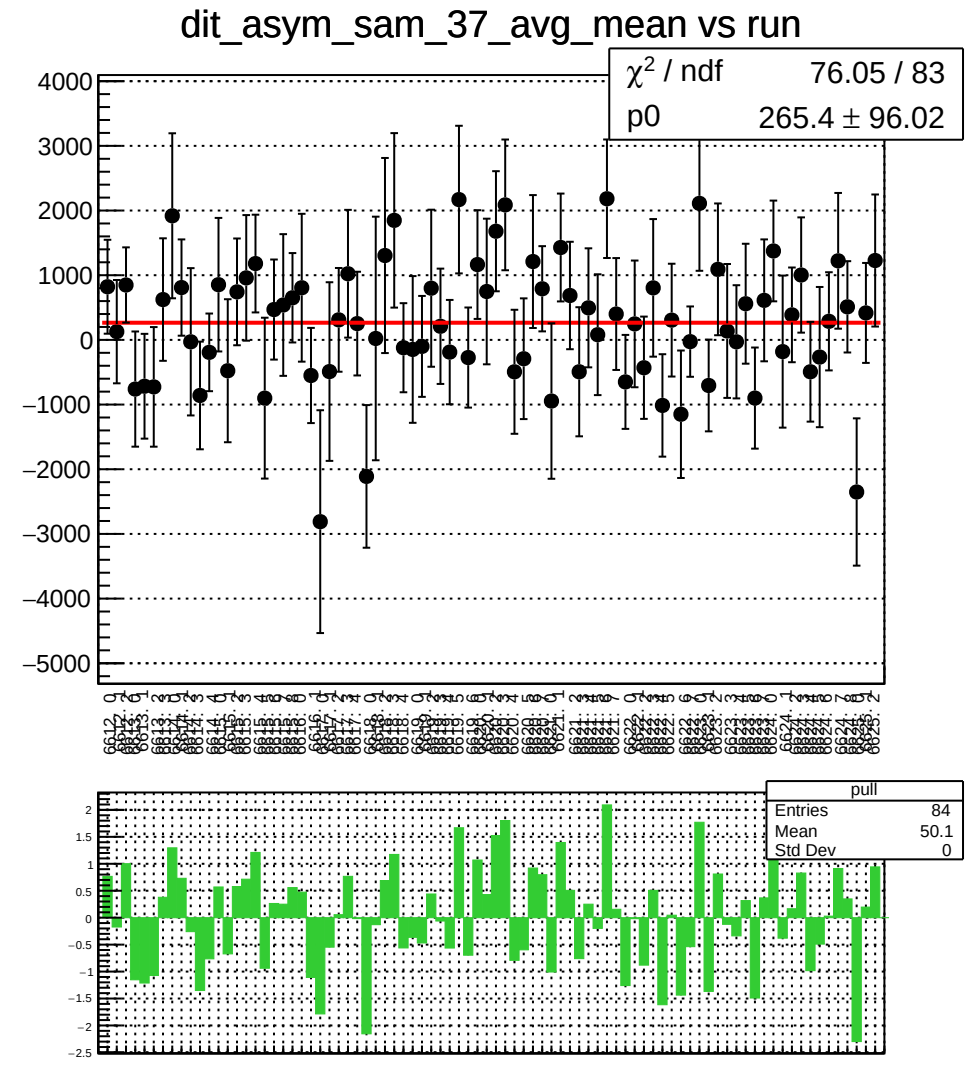

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 77.79 / 83
p0 217.2 ± 78.65
pull
Entries 84
Mean 523.4
Std Dev 0
pull1D
Entries 84
Mean 0.002133
Std Dev 0.9623

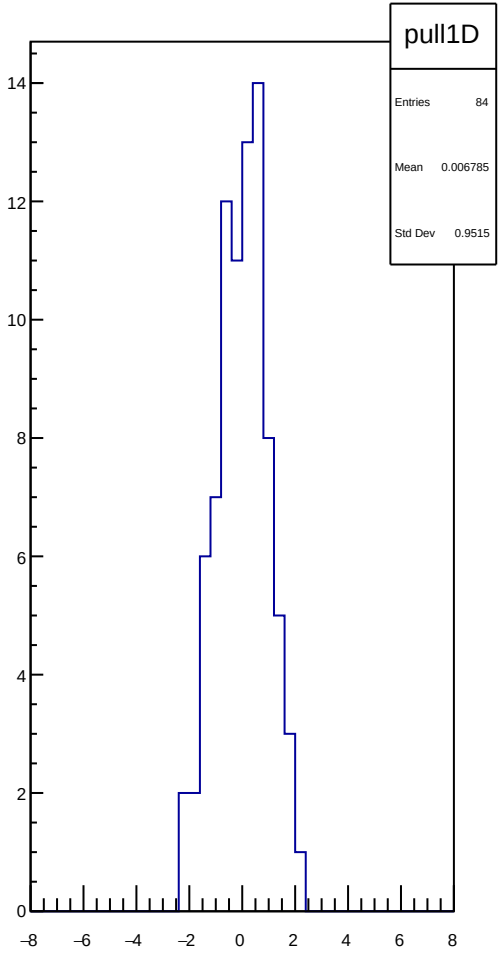

eigen_cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 4.52e+04 / 83
p0 70.07 ± 0.05561
140
120
100
80
60

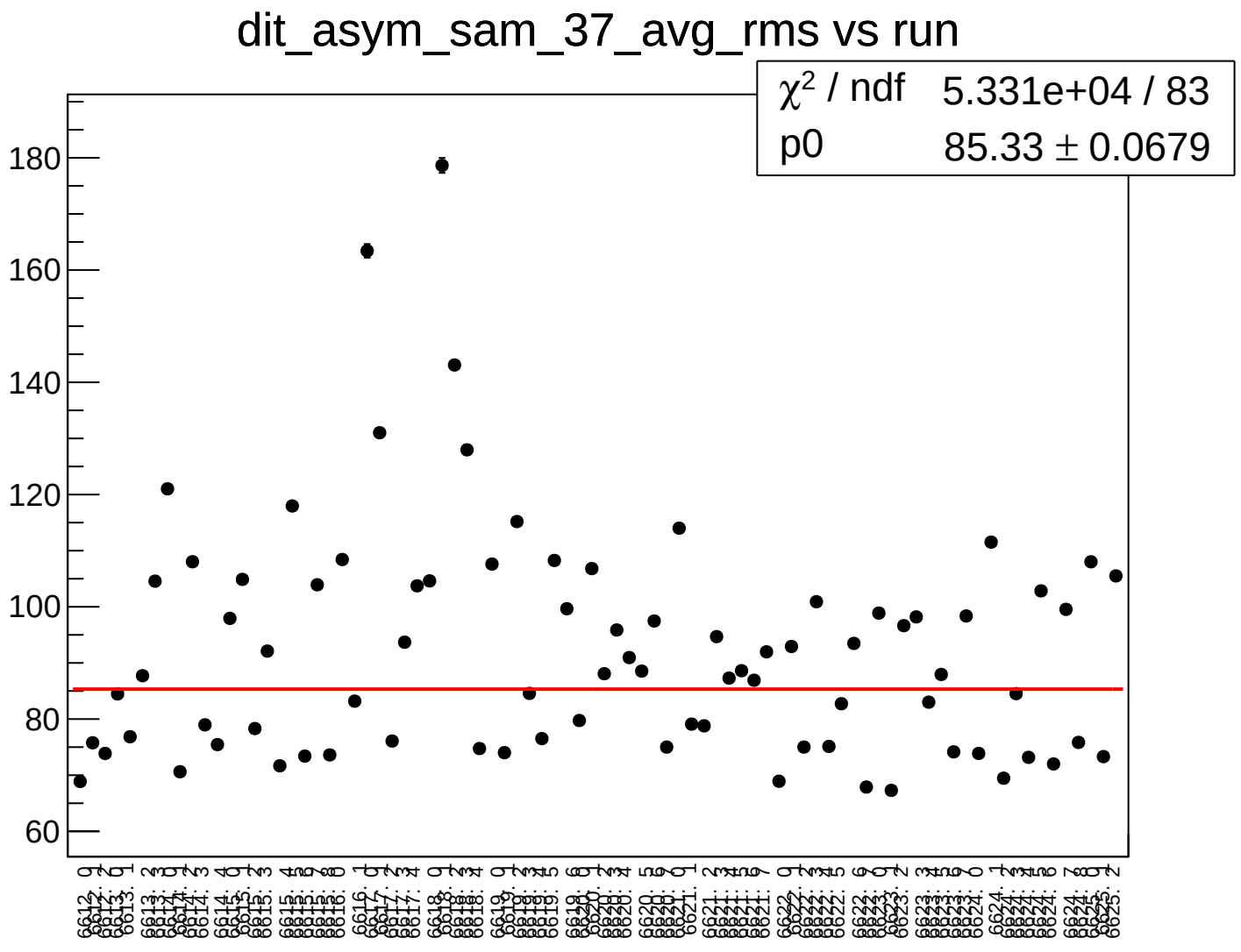

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.92 / 83
p0 −1454 ± 739.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 222.1
Std Dev 0
2
1
0
−1
−2

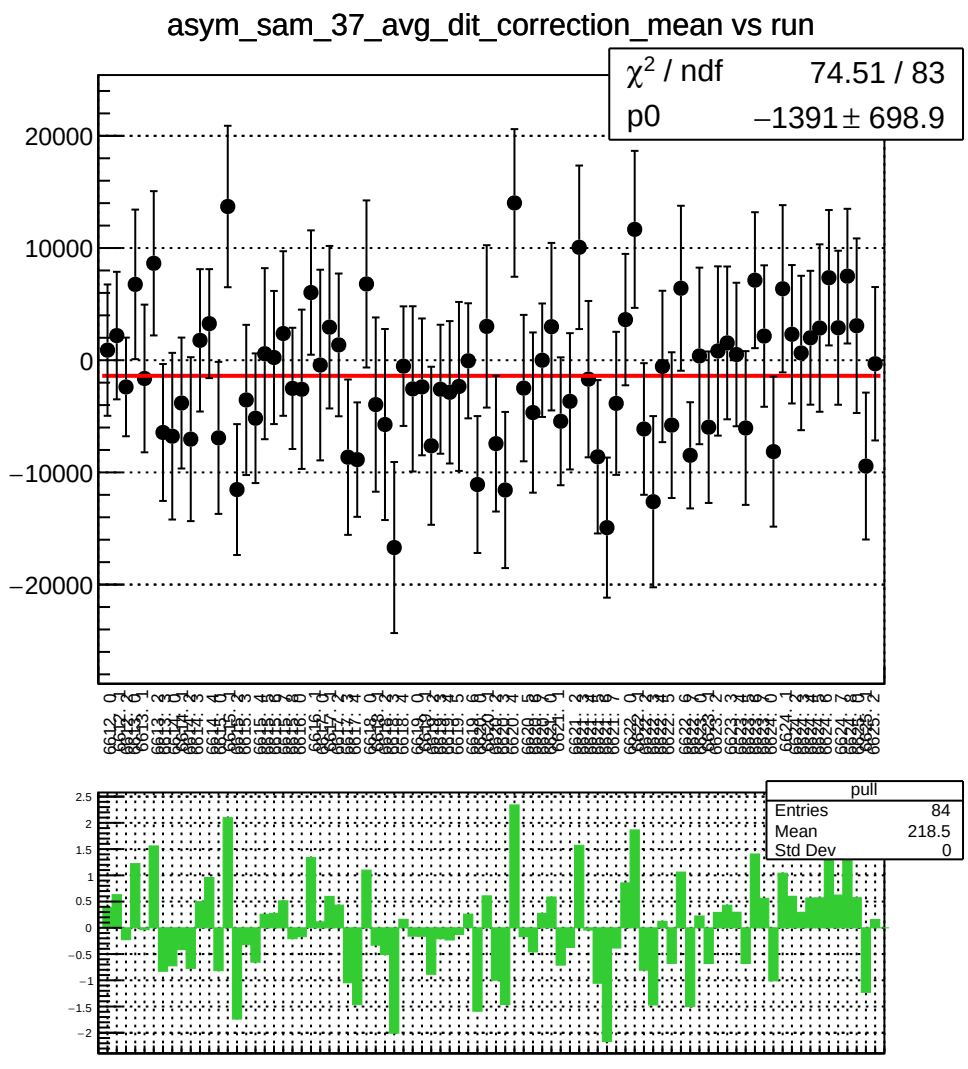

pull1D
Entries 84
Mean 0.009039
Std Dev 0.9444
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

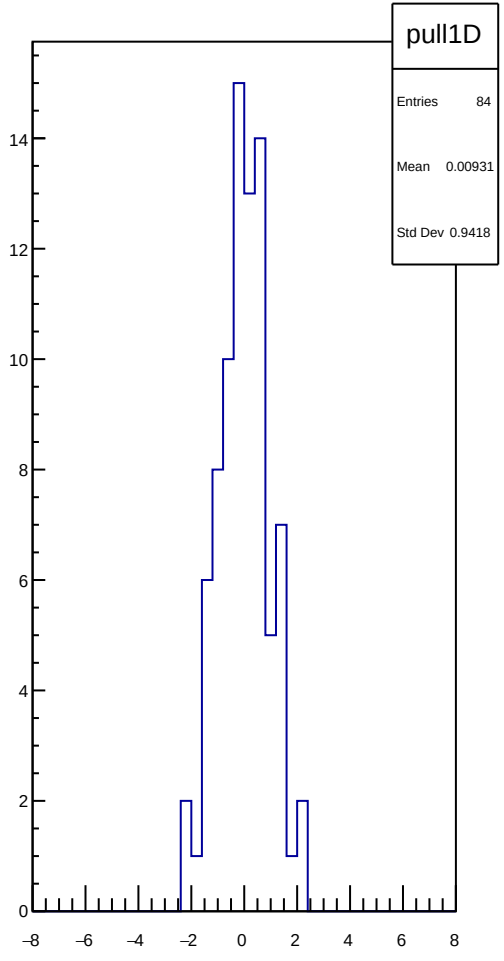

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.873e+04 / 83
p0 664.6 ± 0.5231
900
850
800
750
700
650
600
550

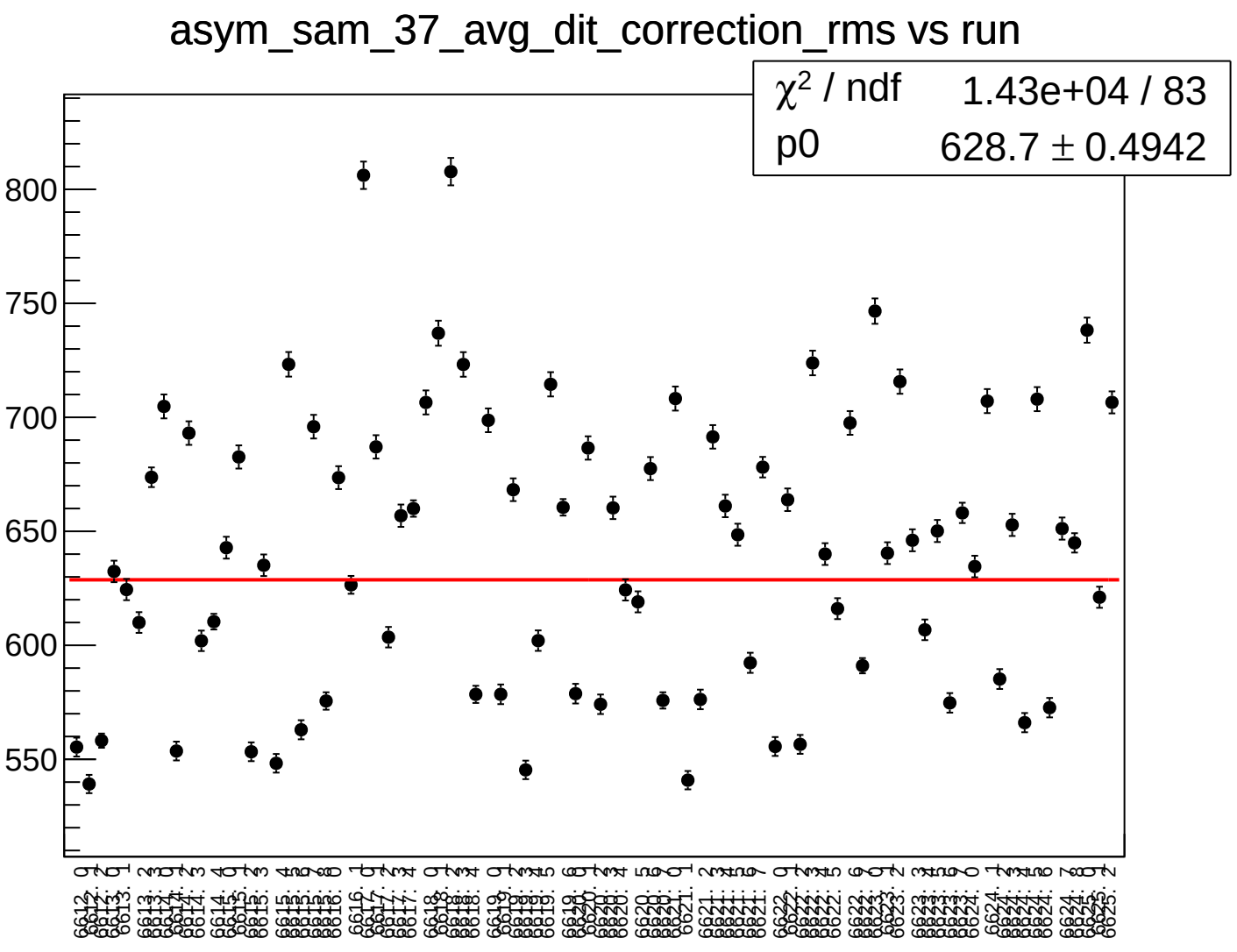

dit_asym_sam_37_avg_mean vs run
χ² / ndf 76.05 / 83
p0 265.4 ± 96.02
pull
Entries 84
Mean 50.1
Std Dev 0

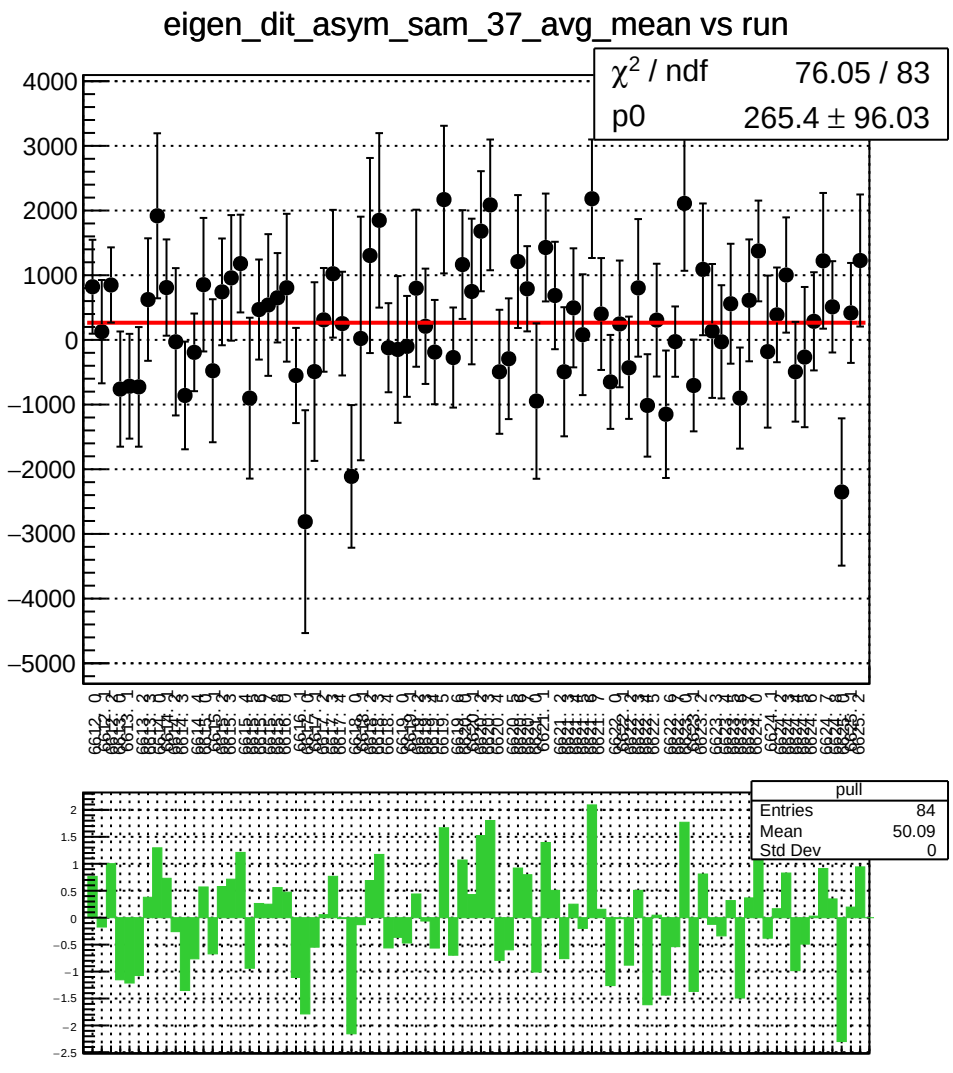

pull1D
Entries 84
Mean 0.006785
Std Dev 0.9515

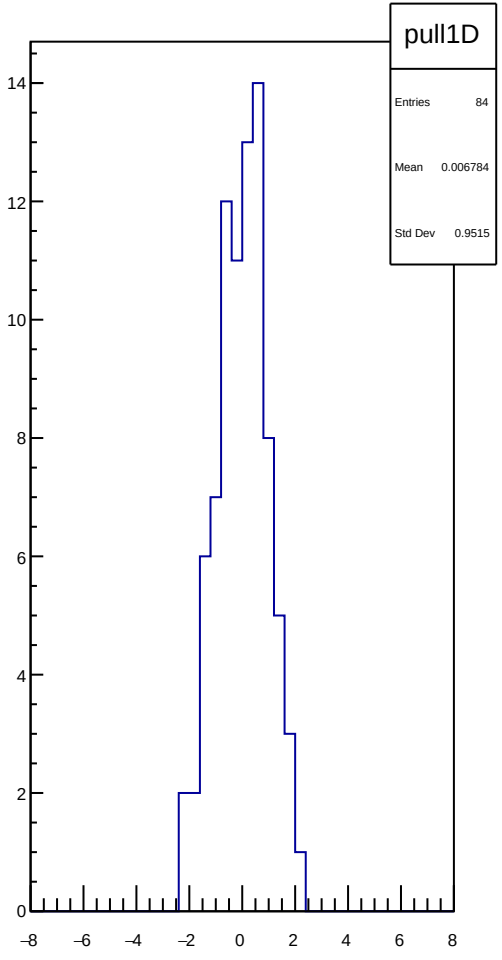

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 5.331e+04 / 83
p0 85.33 ± 0.0679
180
160
140
120
100
80
60

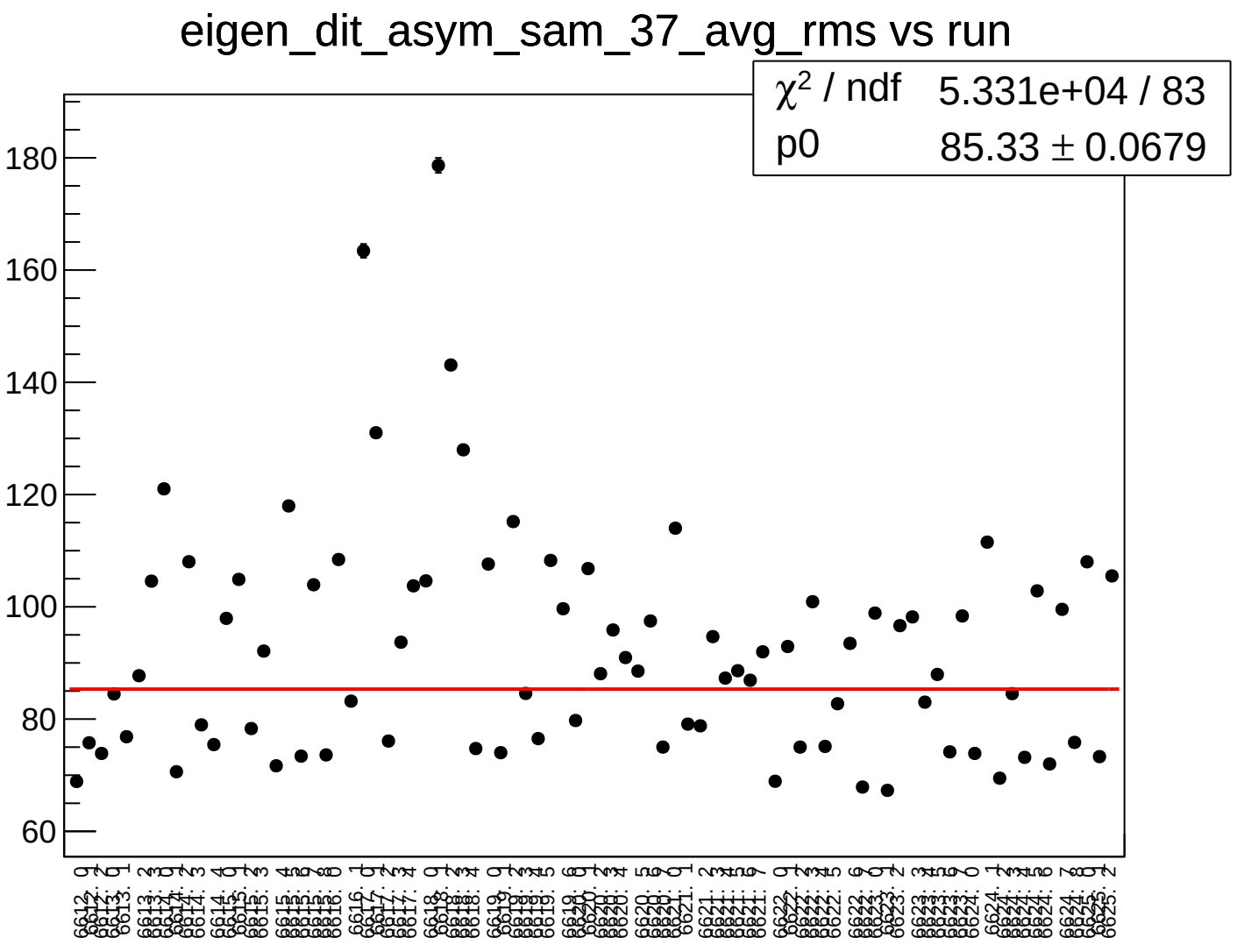

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 74.51 / 83
p0 −1391 ± 698.9
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 218.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

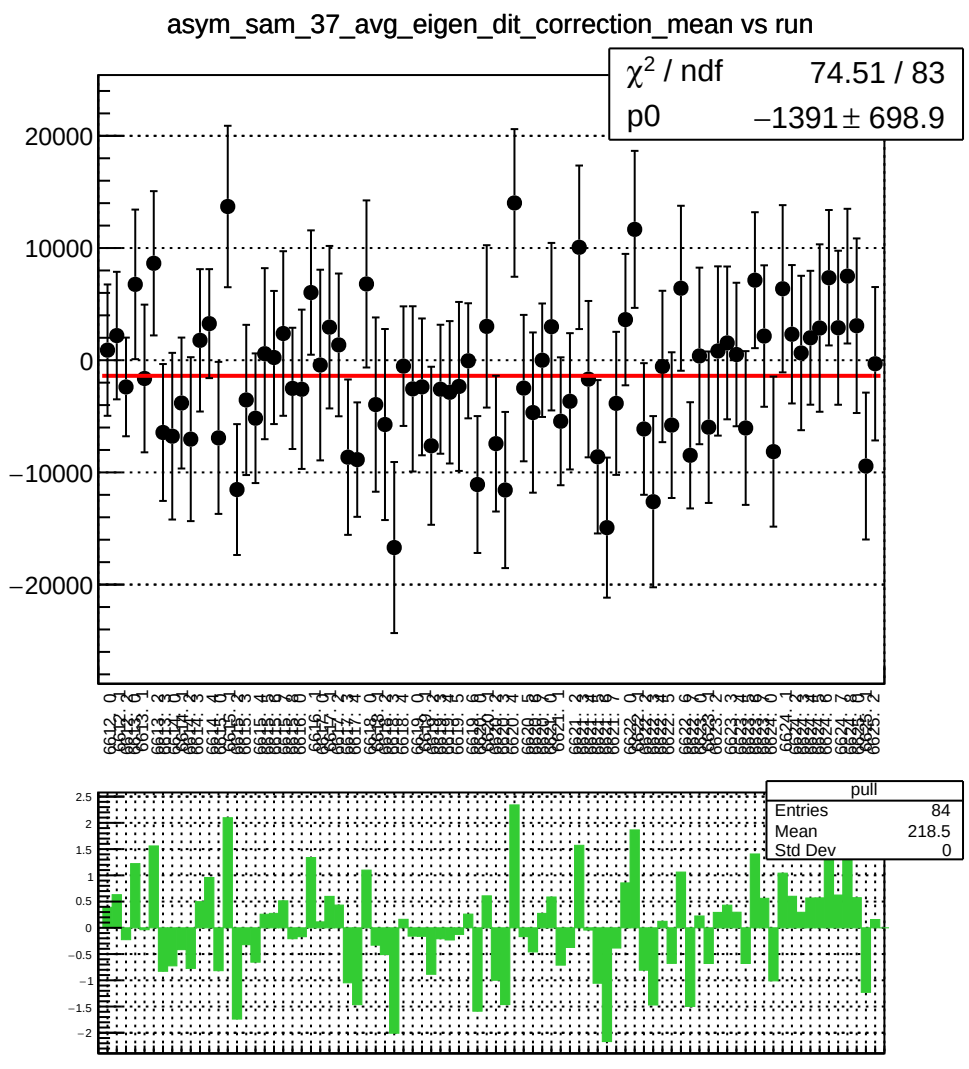

pull1D
Entries 84
Mean 0.00931
Std Dev 0.9418
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

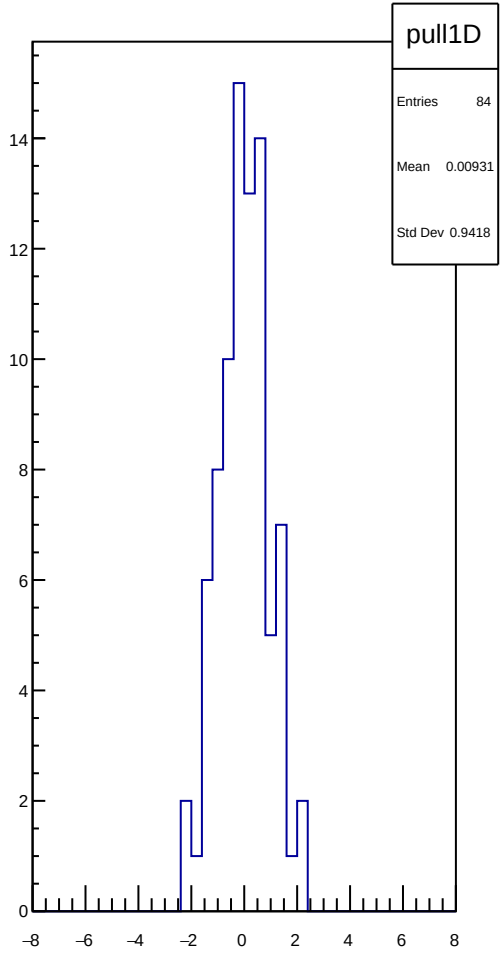

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 1.43e+04 / 83
p0 628.7 ± 0.4942
800
750
700
650
600
550

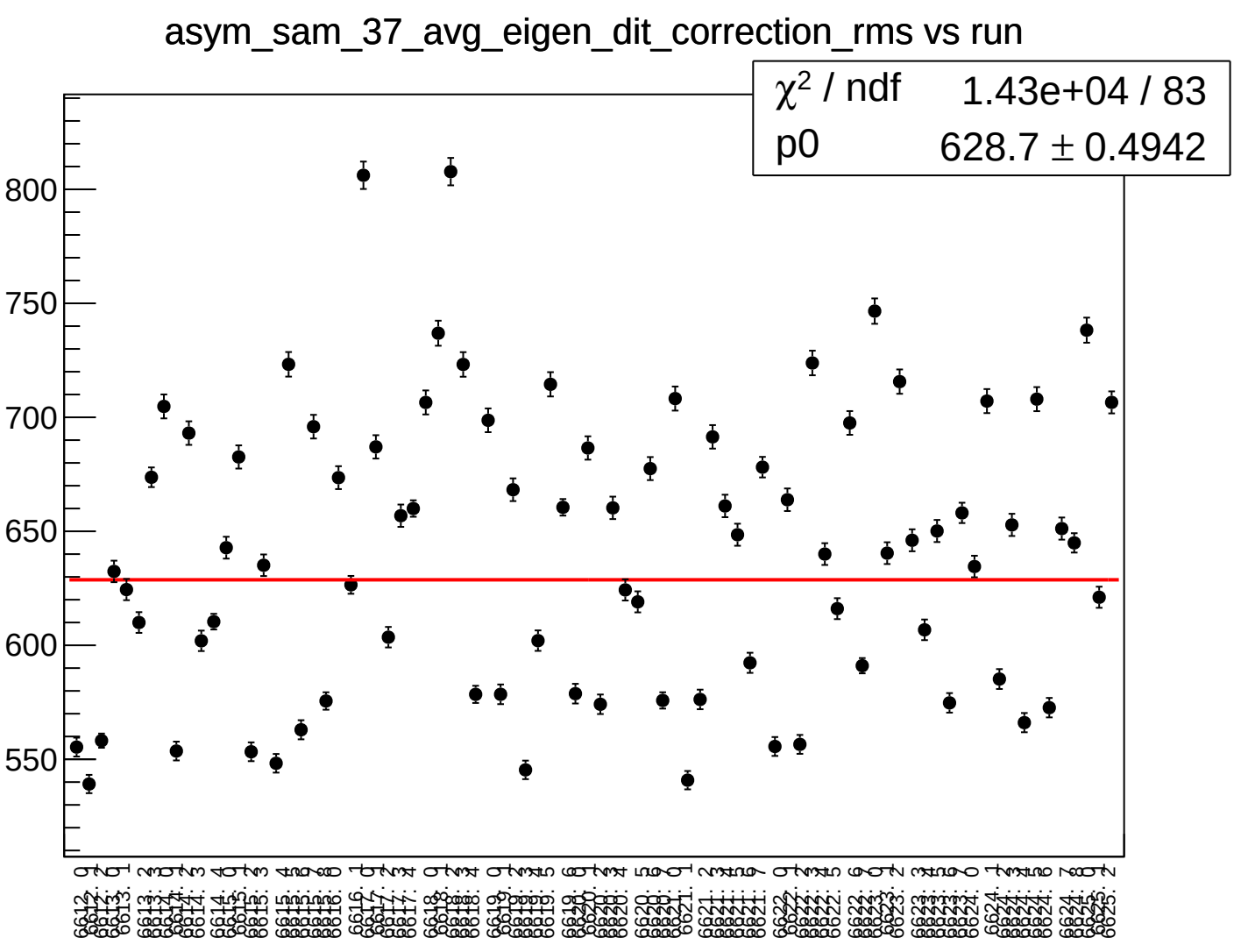

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 76.05 / 83
p0 265.4 ± 96.03
pull
Entries 84
Mean 50.09
Std Dev 0

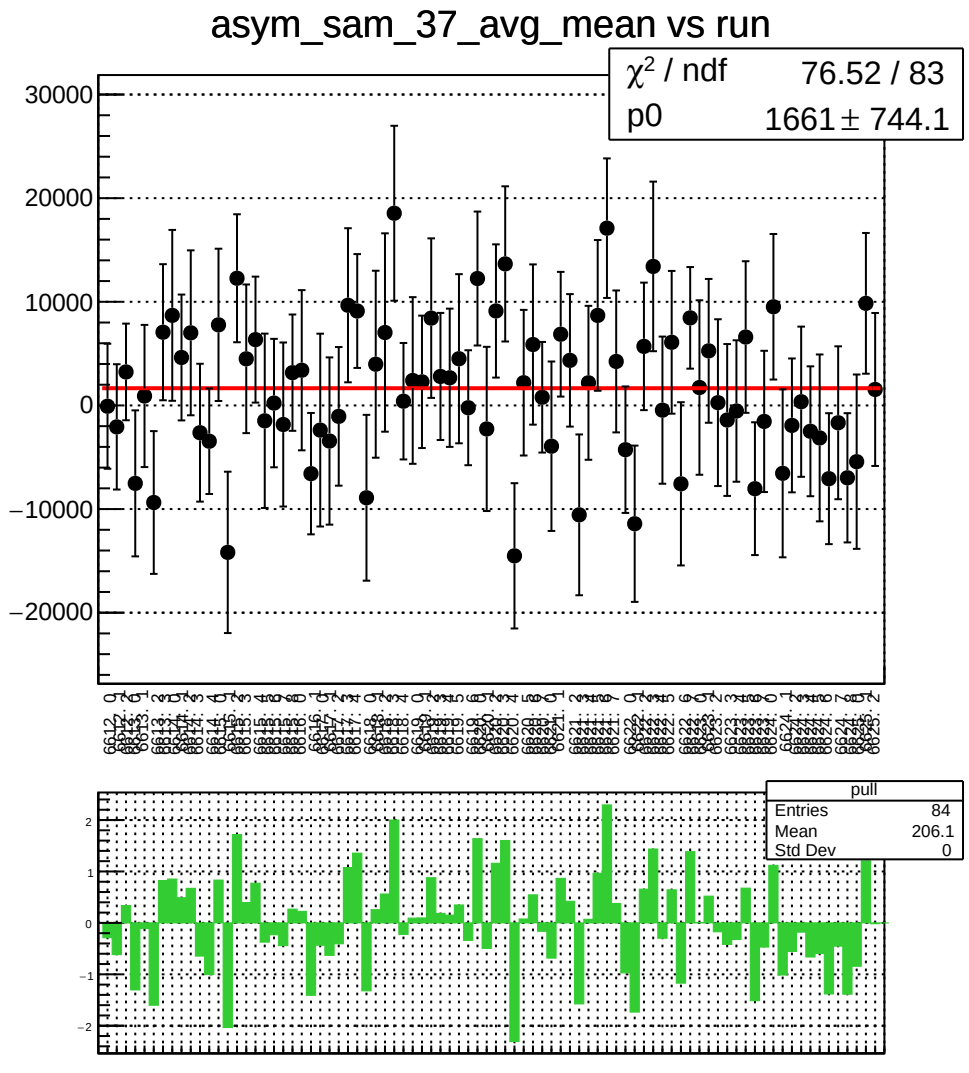

pull1D
Entries 84
Mean 0.006784
Std Dev 0.9515

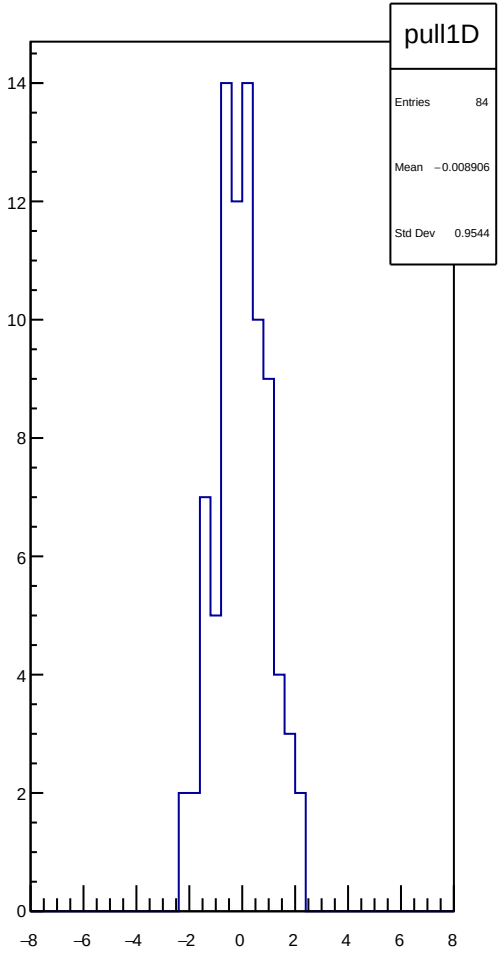

eigen_dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 5.331e+04 / 83
p0 85.33 ± 0.0679
180
160
140
120
100
80
60

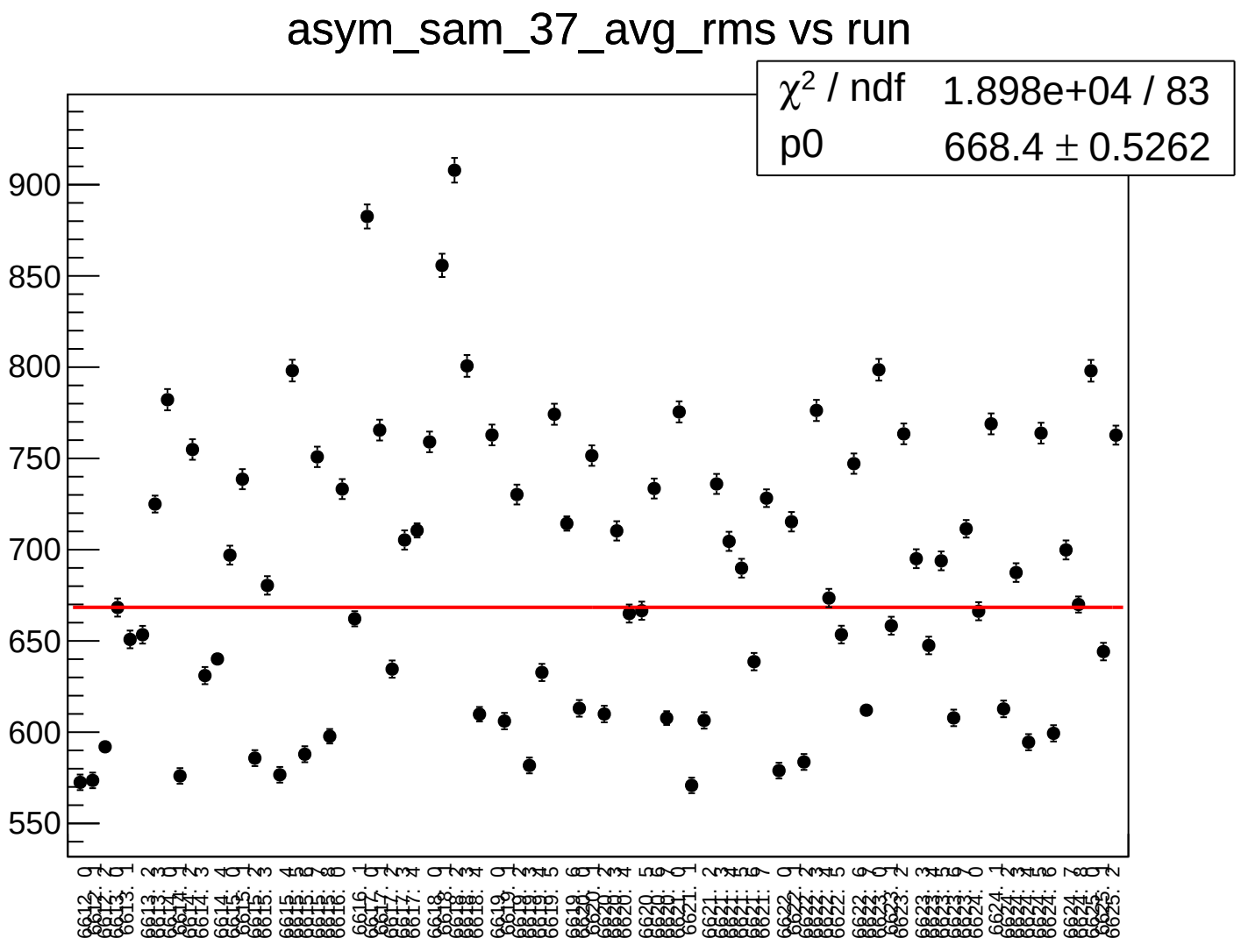

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 74.51 / 83
p0 −1391 ± 698.9
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 218.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

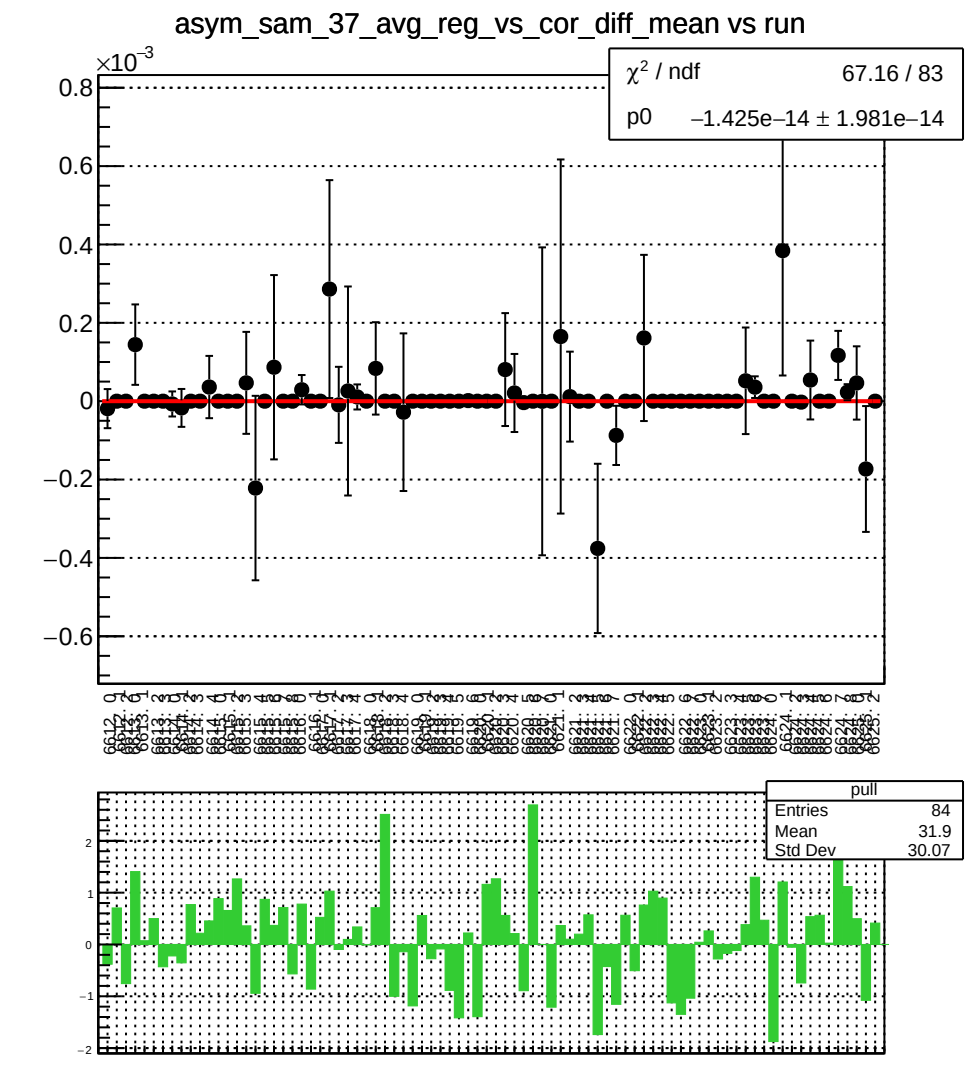

pull1D
Entries 84
Mean 0.00931
Std Dev 0.9418
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

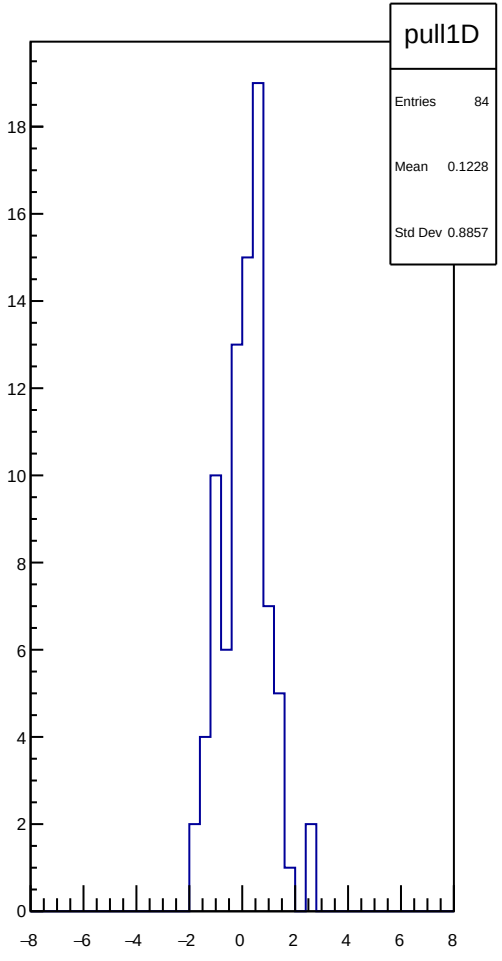

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.43e+04 / 83
p0 628.7 ± 0.4942
800
750
700
650
600
550

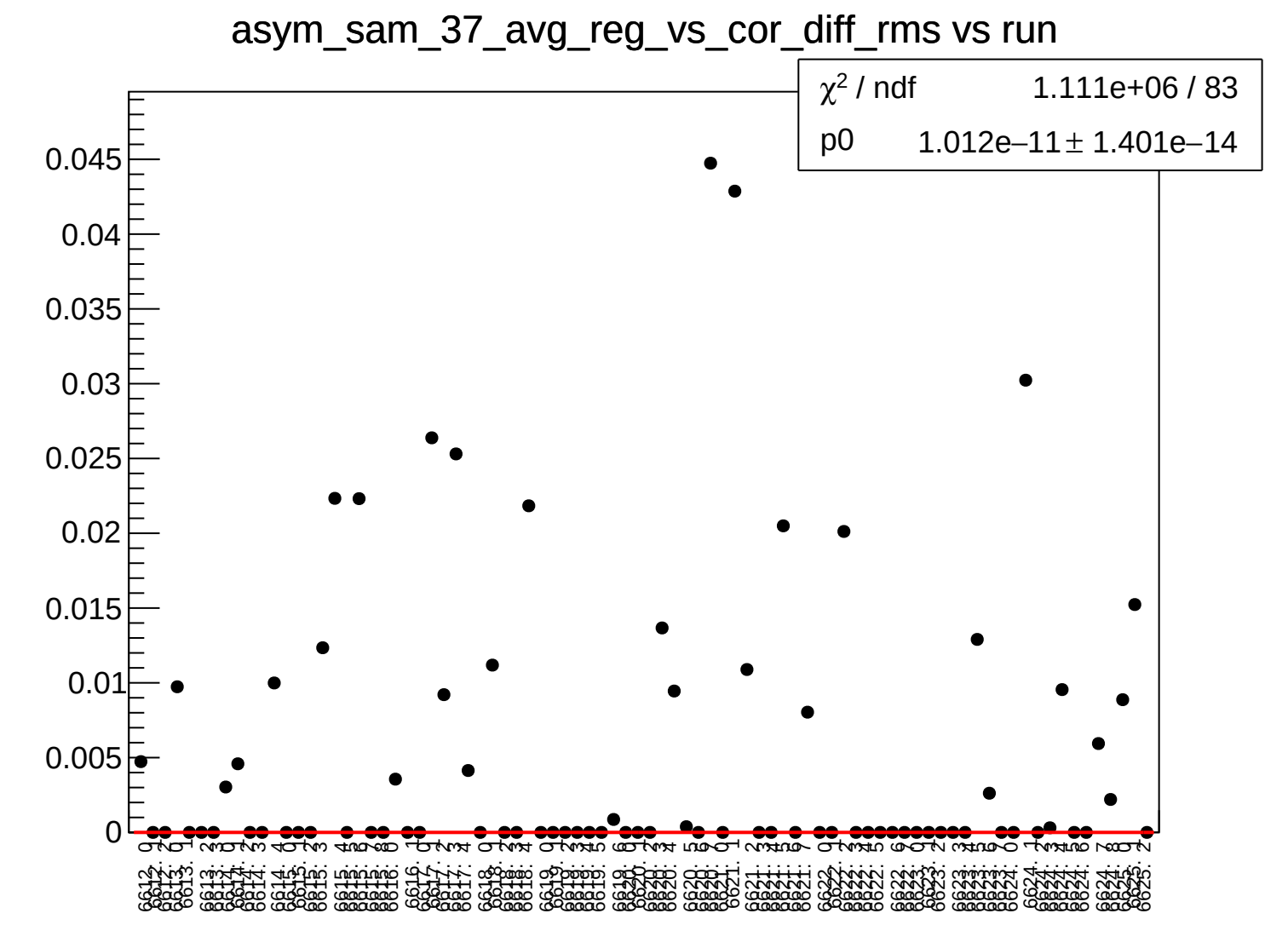

asym_sam_37_avg_mean vs run
χ² / ndf 76.52 / 83
p0 1661 ± 744.1
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 206.1
Std Dev 0
2
1
0
−1
−2

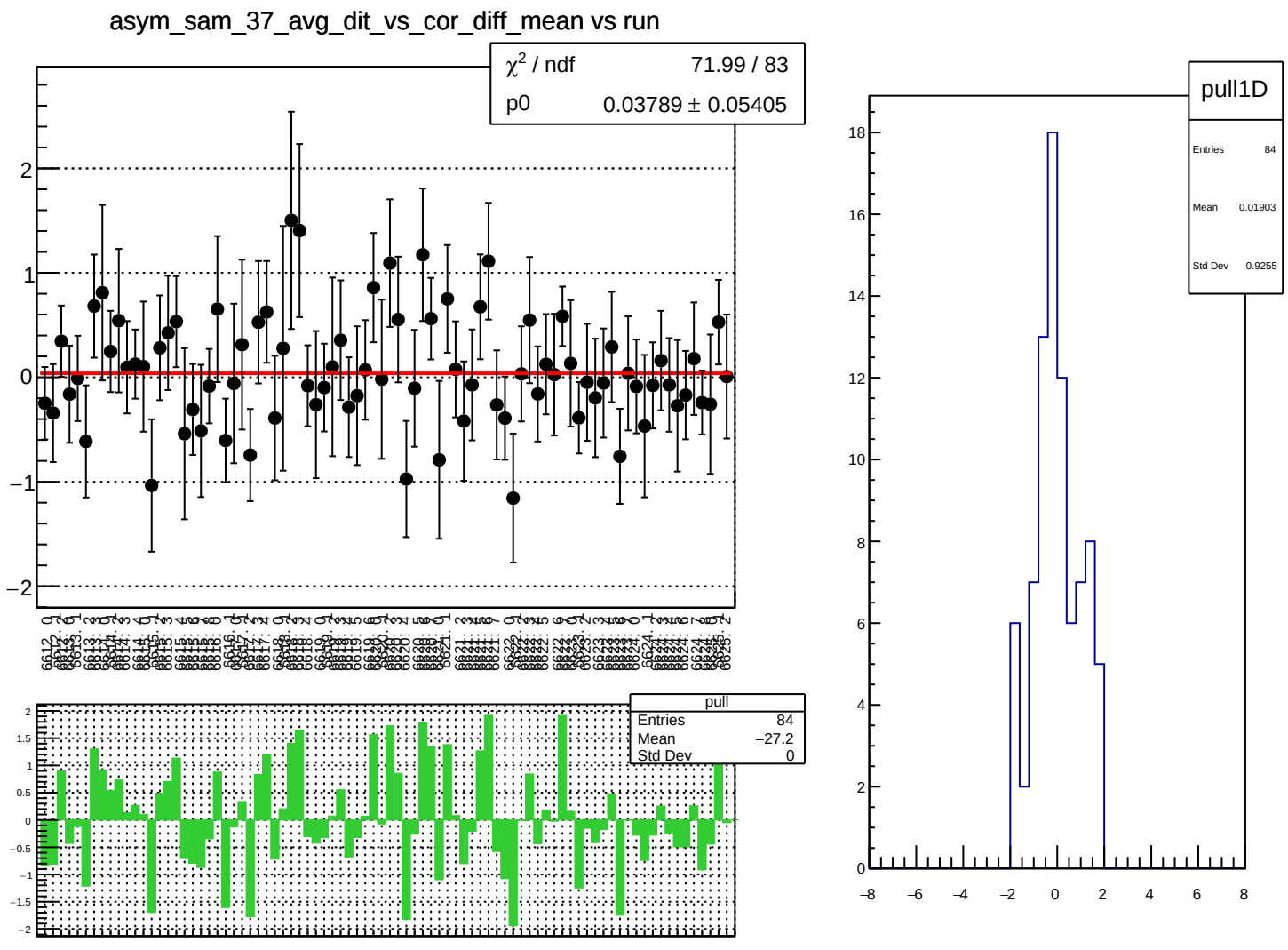

pull1D
Entries 84
Mean −0.008906
Std Dev 0.9544
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

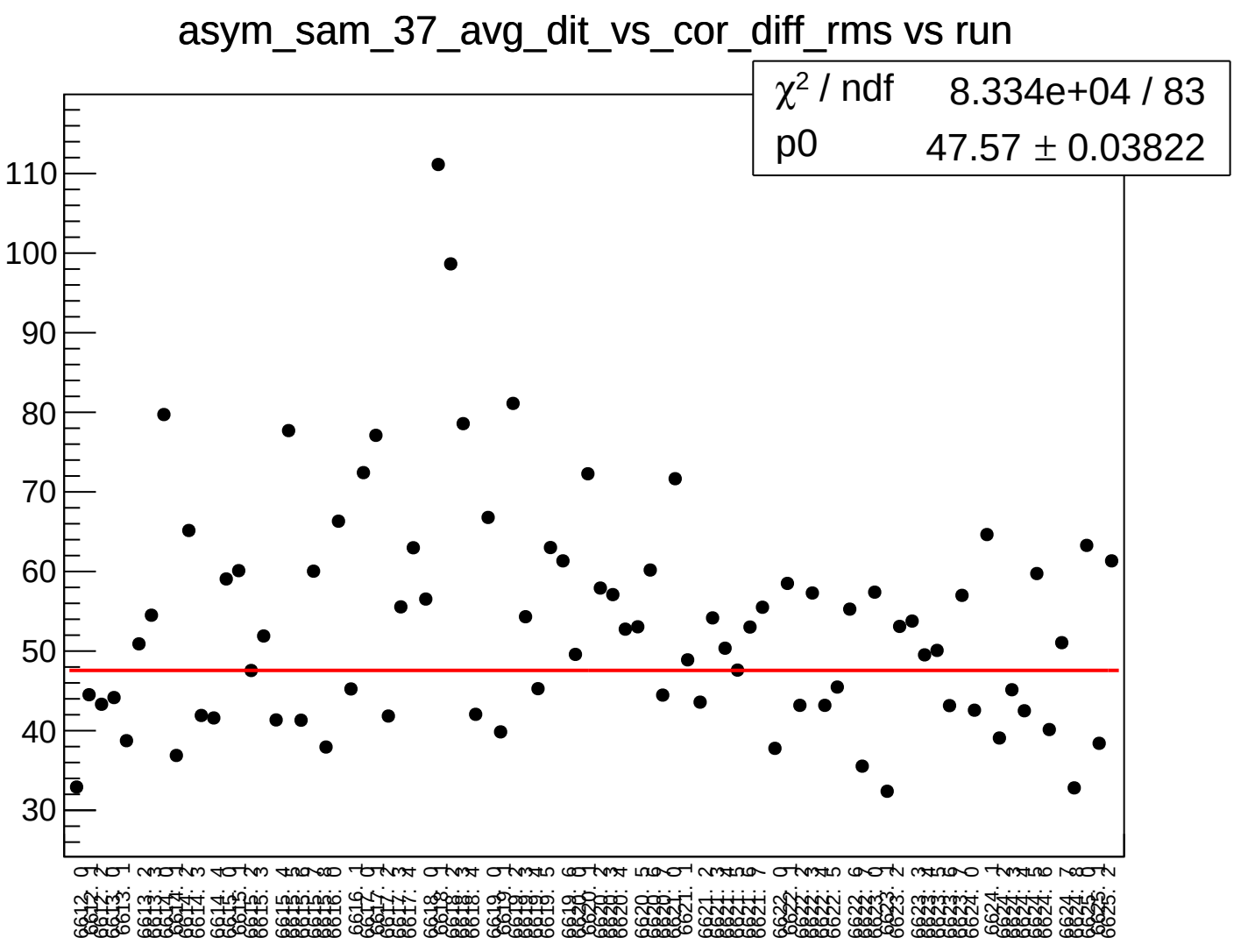

asym_sam_37_avg_rms vs run
χ^2 / ndf 1.898e+04 / 83
p0 668.4 ± 0.5262
900
850
800
750
700
650
600
550

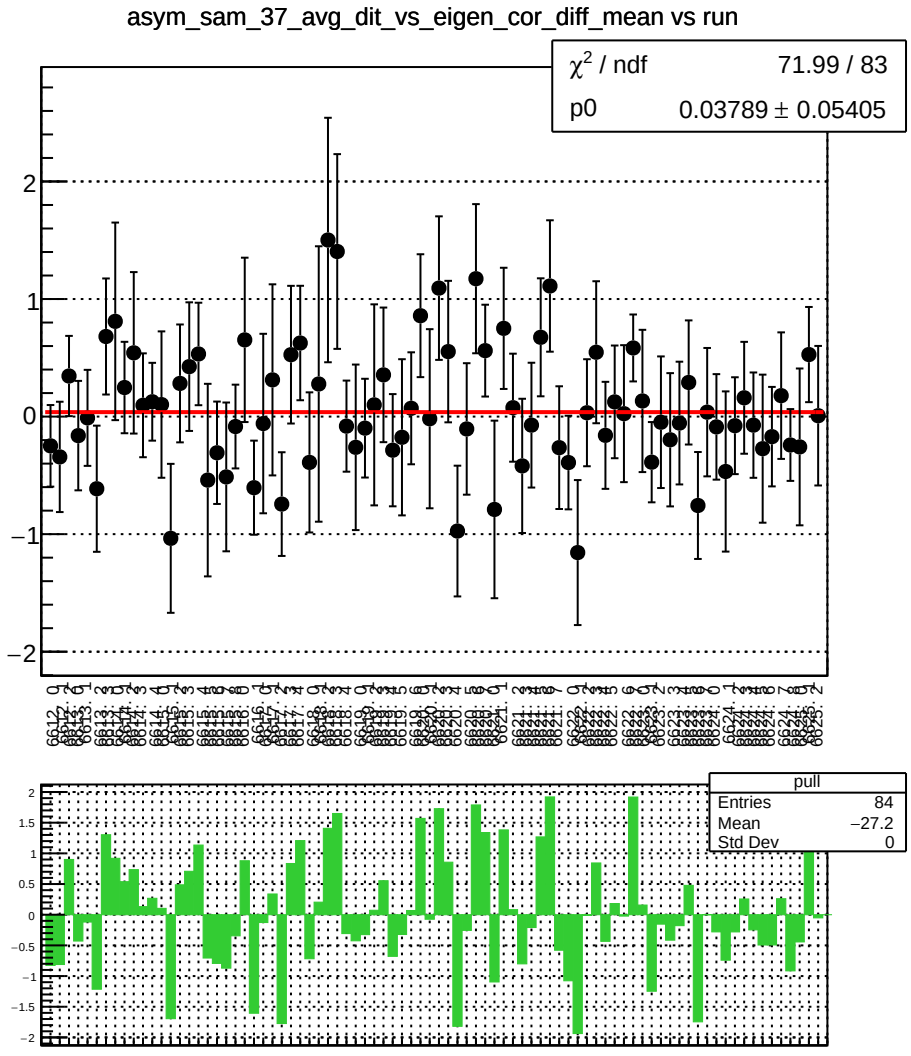

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 67.16 / 83
p0 −1.425e−14 ± 1.981e−14
pull
Entries 84
Mean 31.9
Std Dev 30.07

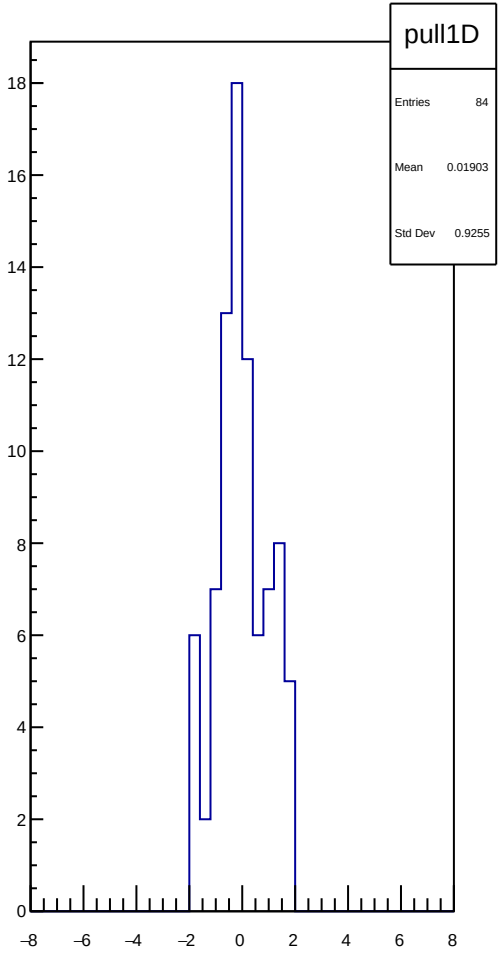

pull1D
Entries 84
Mean 0.1228
Std Dev 0.8857

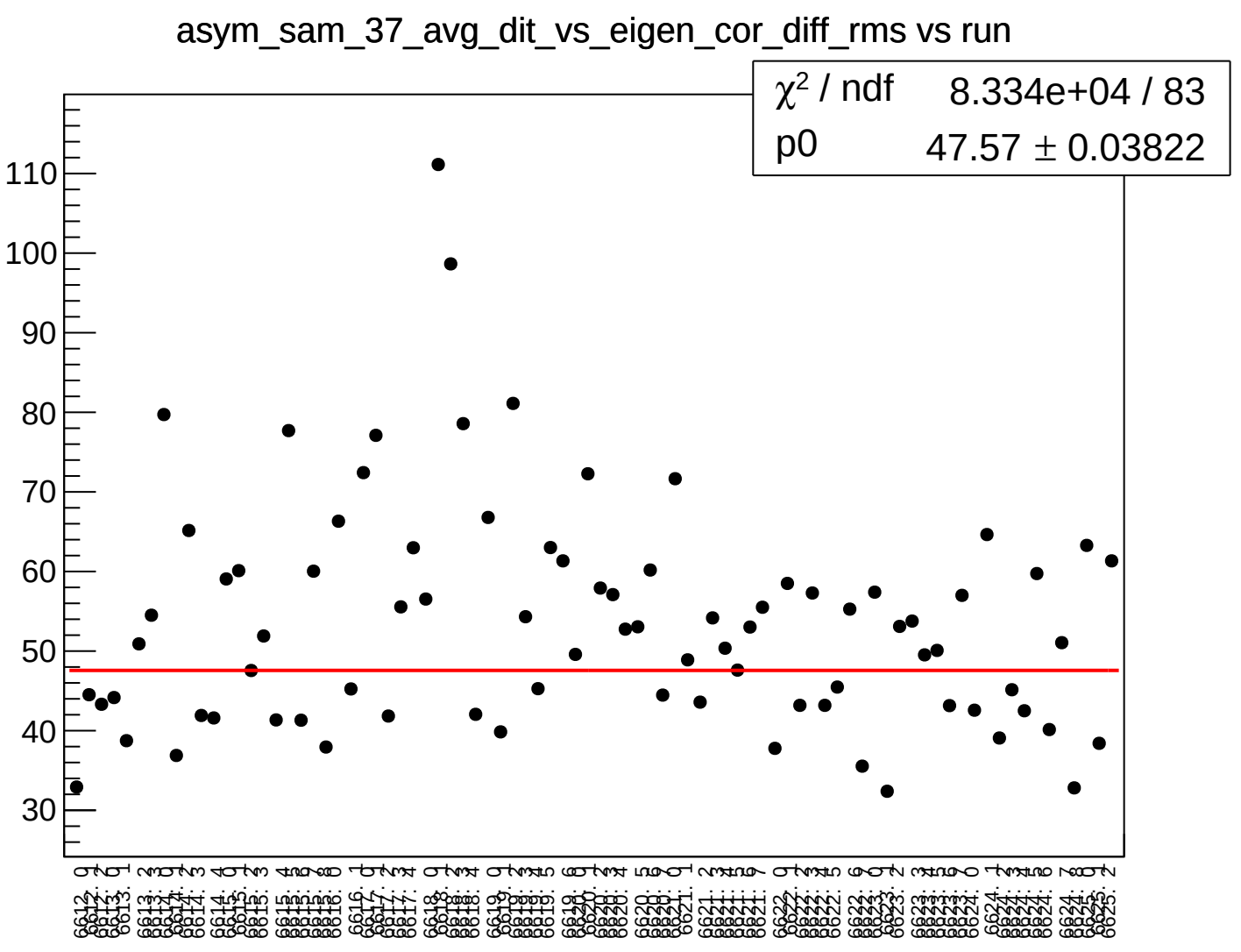

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.111e+06 / 83
p0 1.012e−11 ± 1.401e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

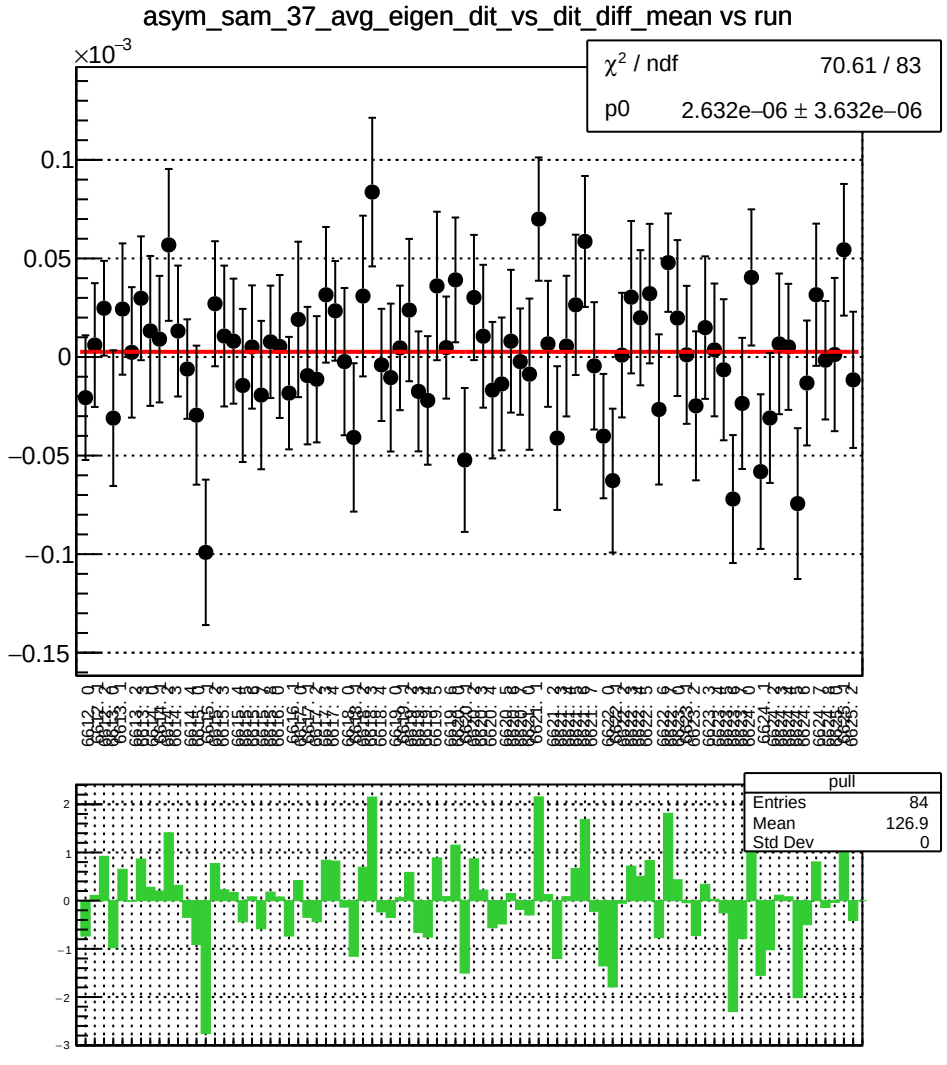

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.99 / 83
p0 0.03789 ± 0.05405
pull
Entries 84
Mean −27.2
Std Dev 0
pull1D
Entries 84
Mean 0.01903
Std Dev 0.9255

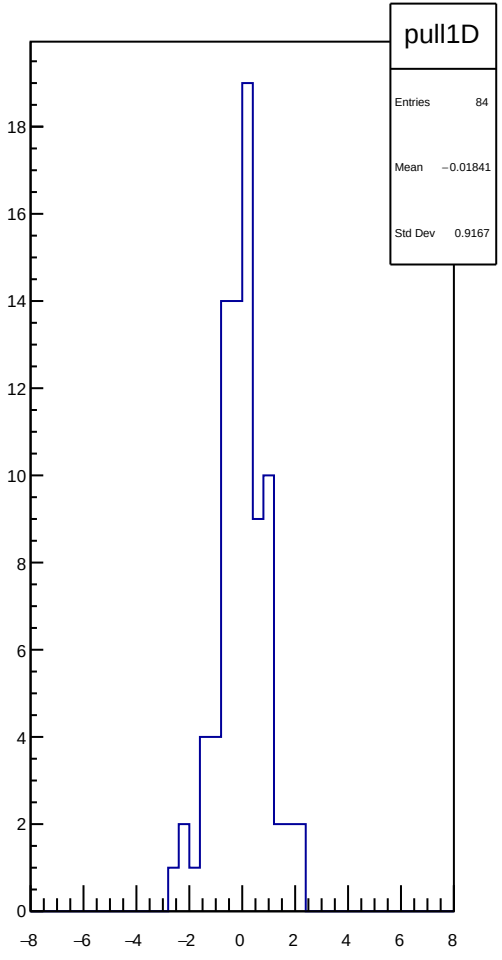

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.334e+04 / 83
p0 47.57 ± 0.03822
110
100
90
80
70
60
50
40
30

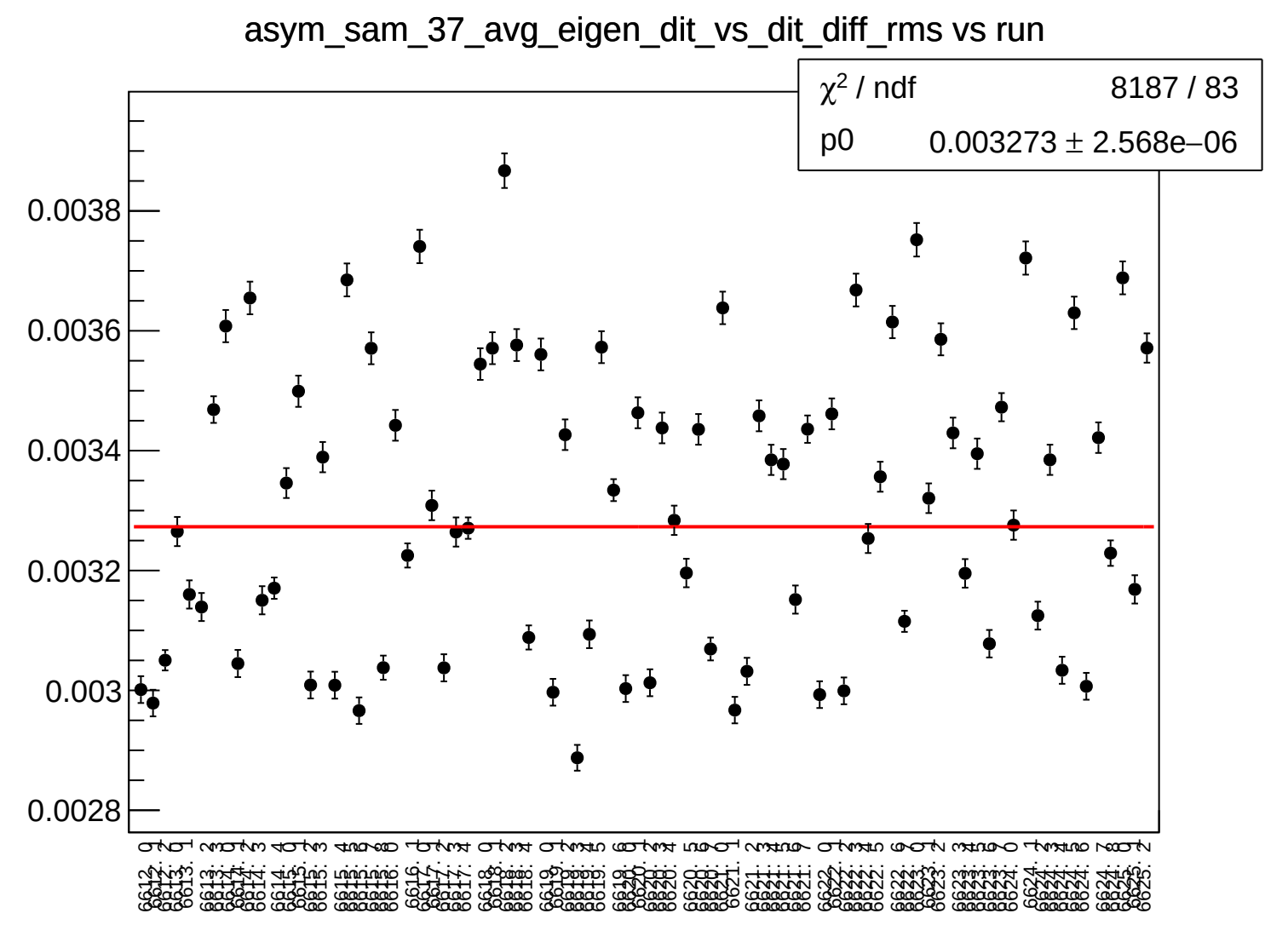

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.99 / 83
p0 0.03789 ± 0.05405
pull
Entries 84
Mean −27.2
Std Dev 0

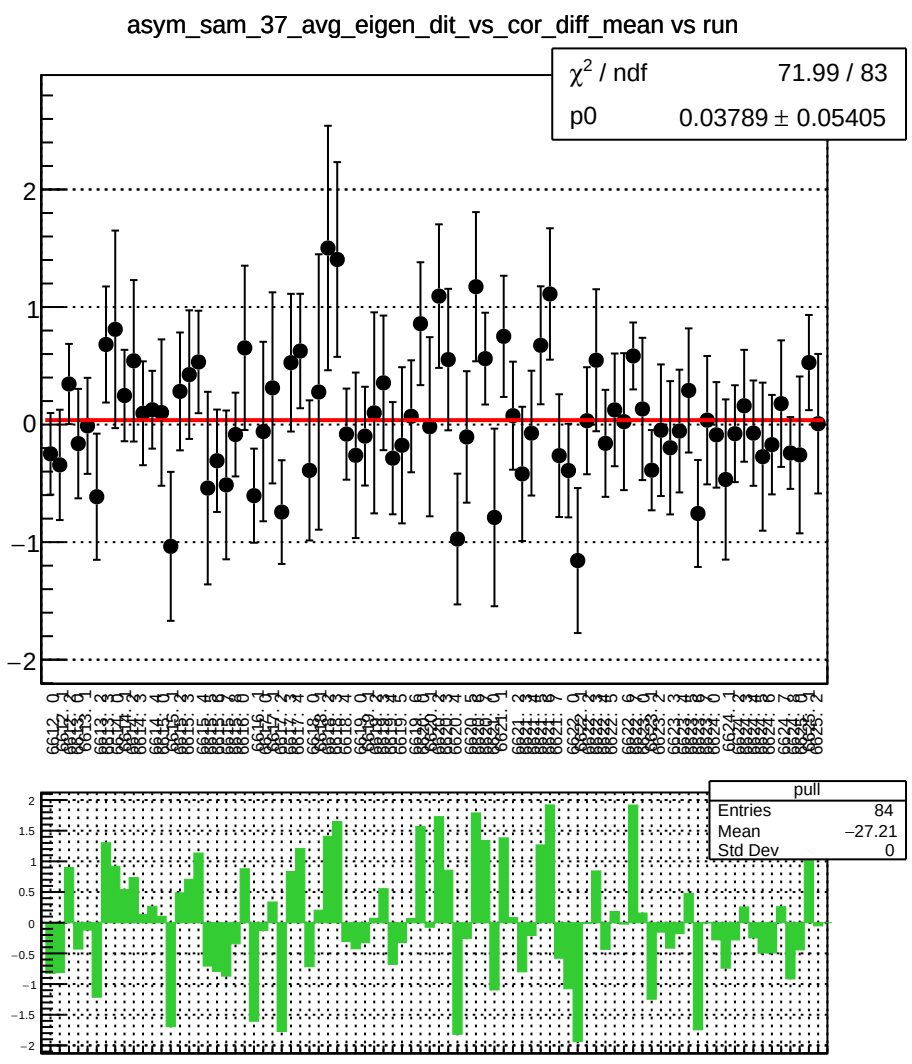

pull1D
Entries 84
Mean 0.01903
Std Dev 0.9255

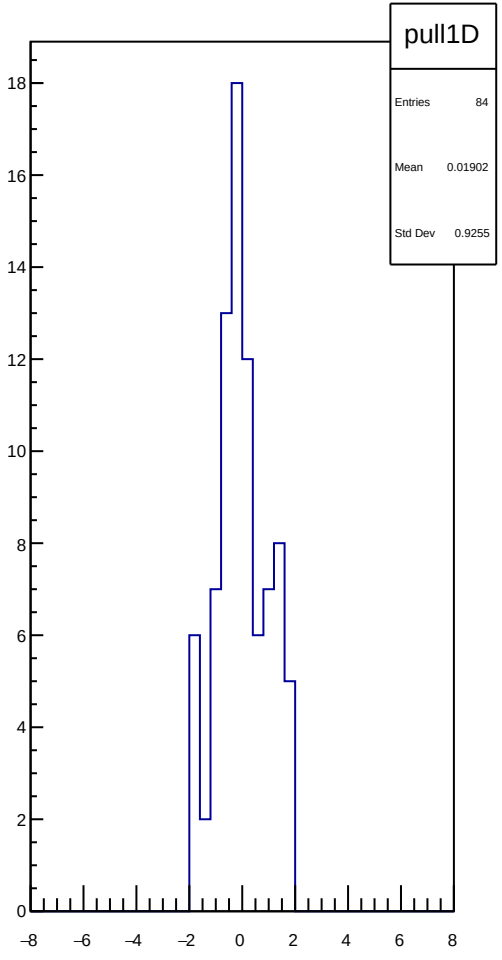

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.334e+04 / 83
p0 47.57 ± 0.03822
110
100
90
80
70
60
50
40
30

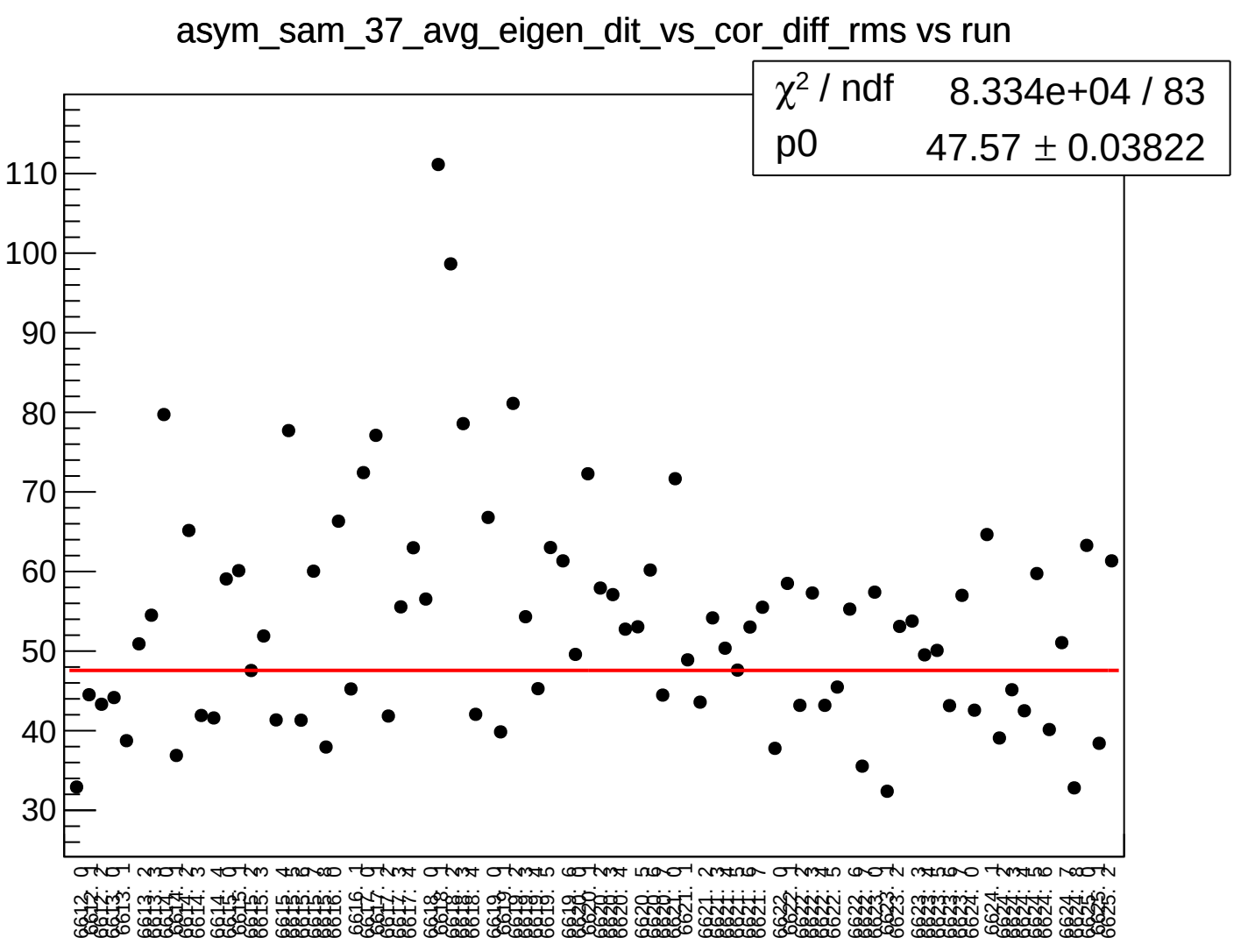

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.61 / 83
p0 2.632e−06 ± 3.632e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 84
Mean 126.9
Std Dev 0
2
1
0
−1
−2
−3

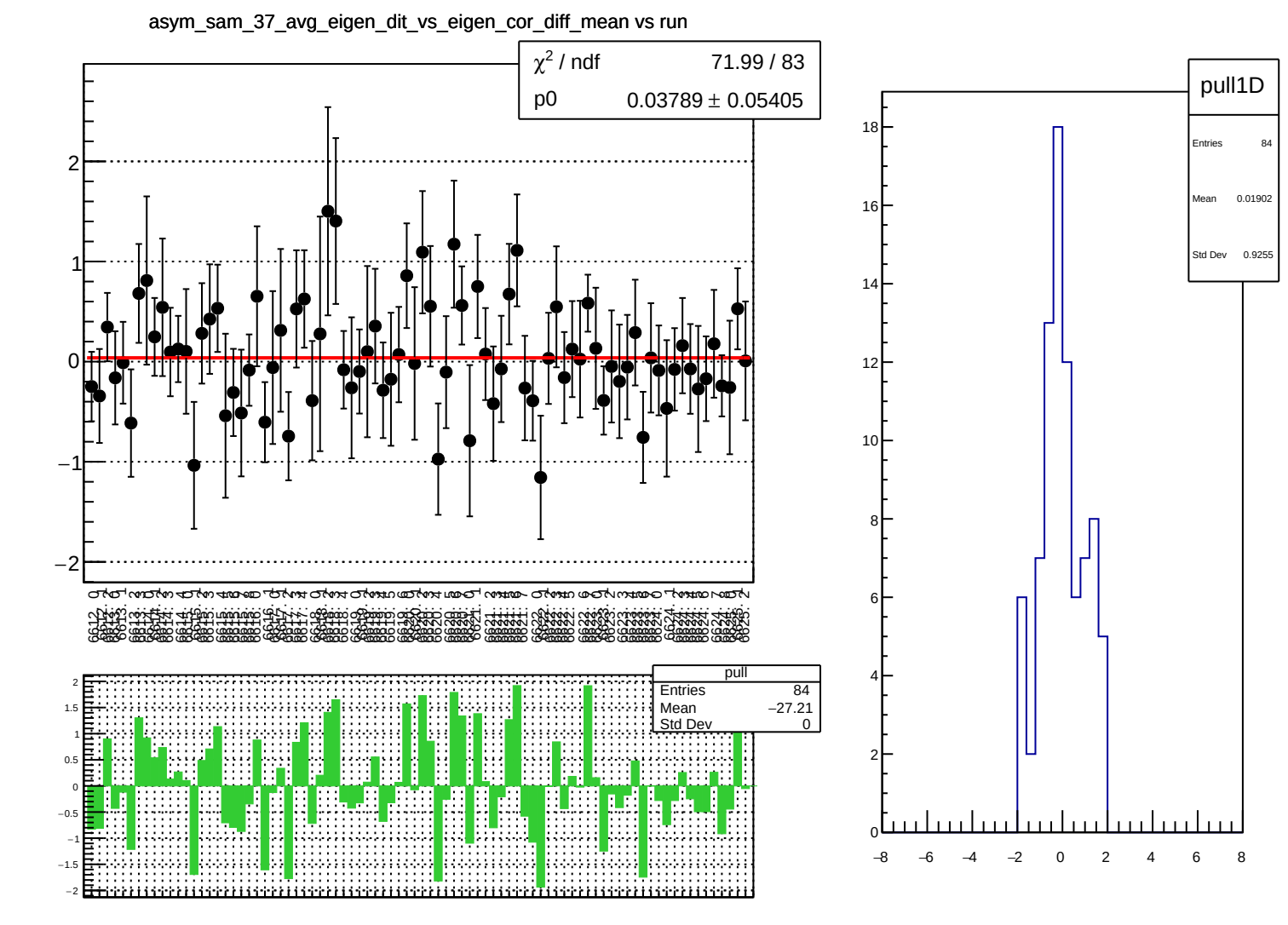

pull1D
Entries 84
Mean −0.01841
Std Dev 0.9167
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

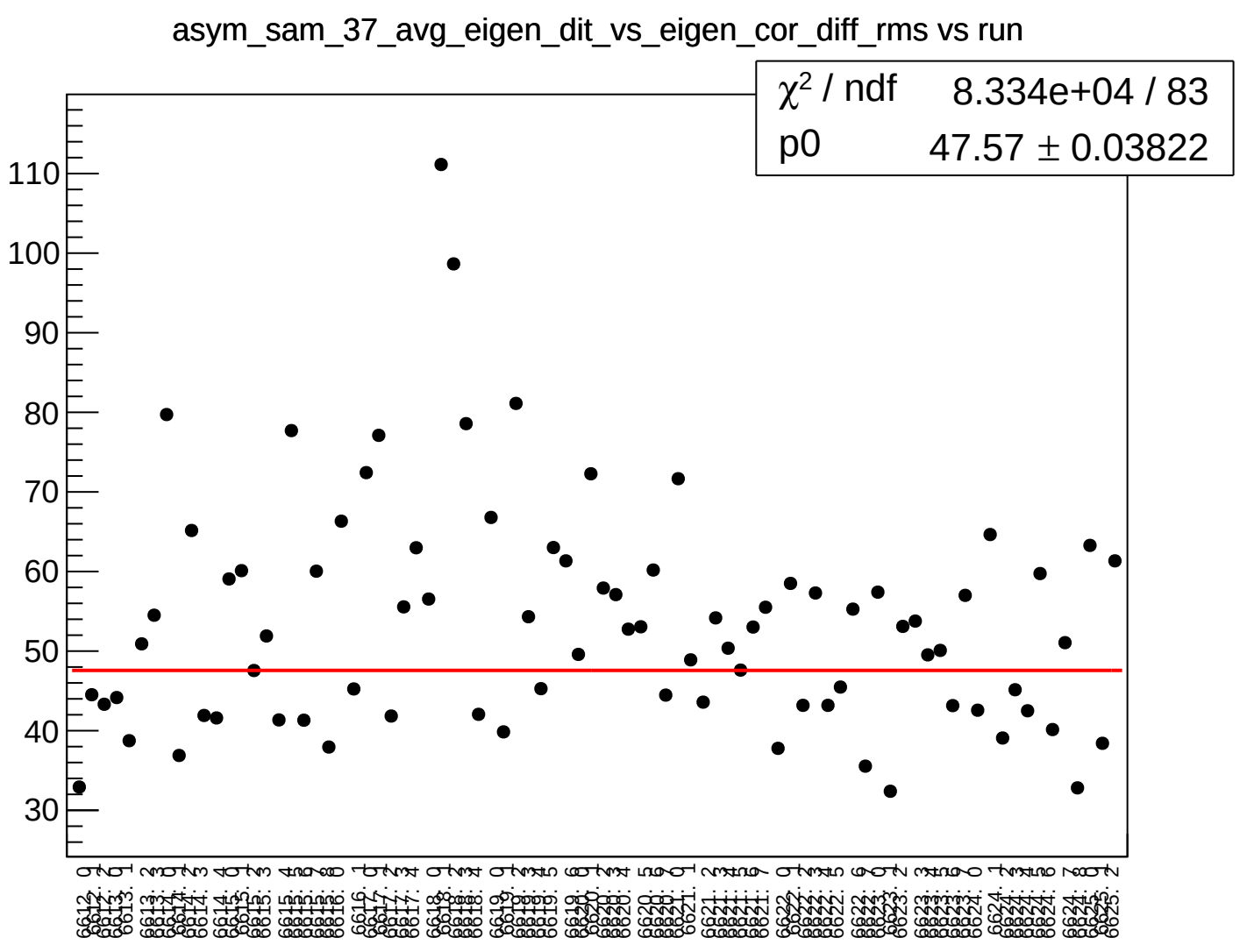

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8187 / 83
p0 0.003273 ± 2.568e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

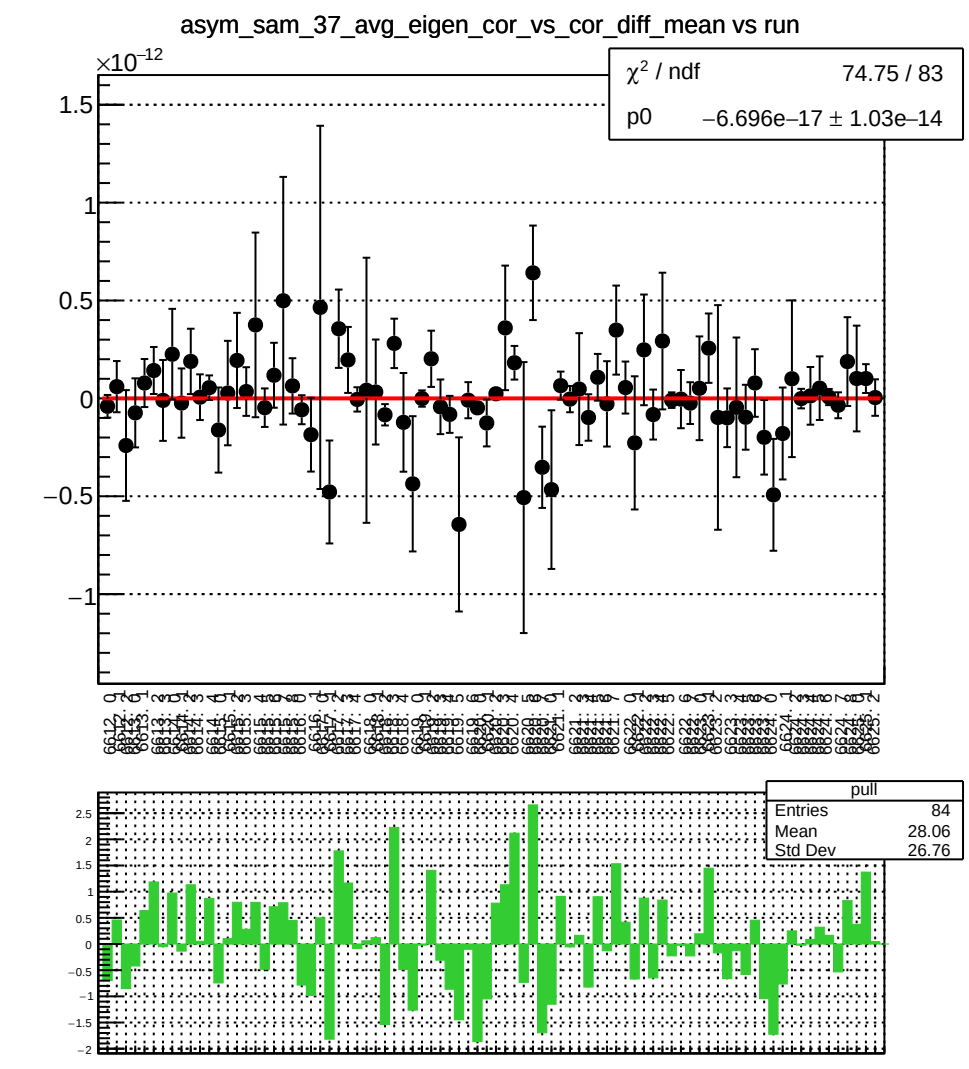

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.99 / 83
p0 0.03789 ± 0.05405
pull
Entries 84
Mean −27.21
Std Dev 0

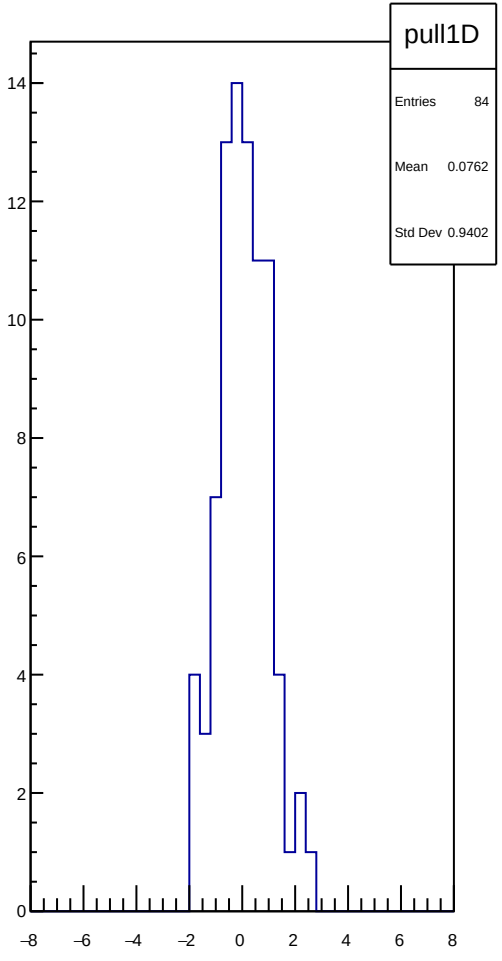

pull1D
Entries 84
Mean 0.01902
Std Dev 0.9255

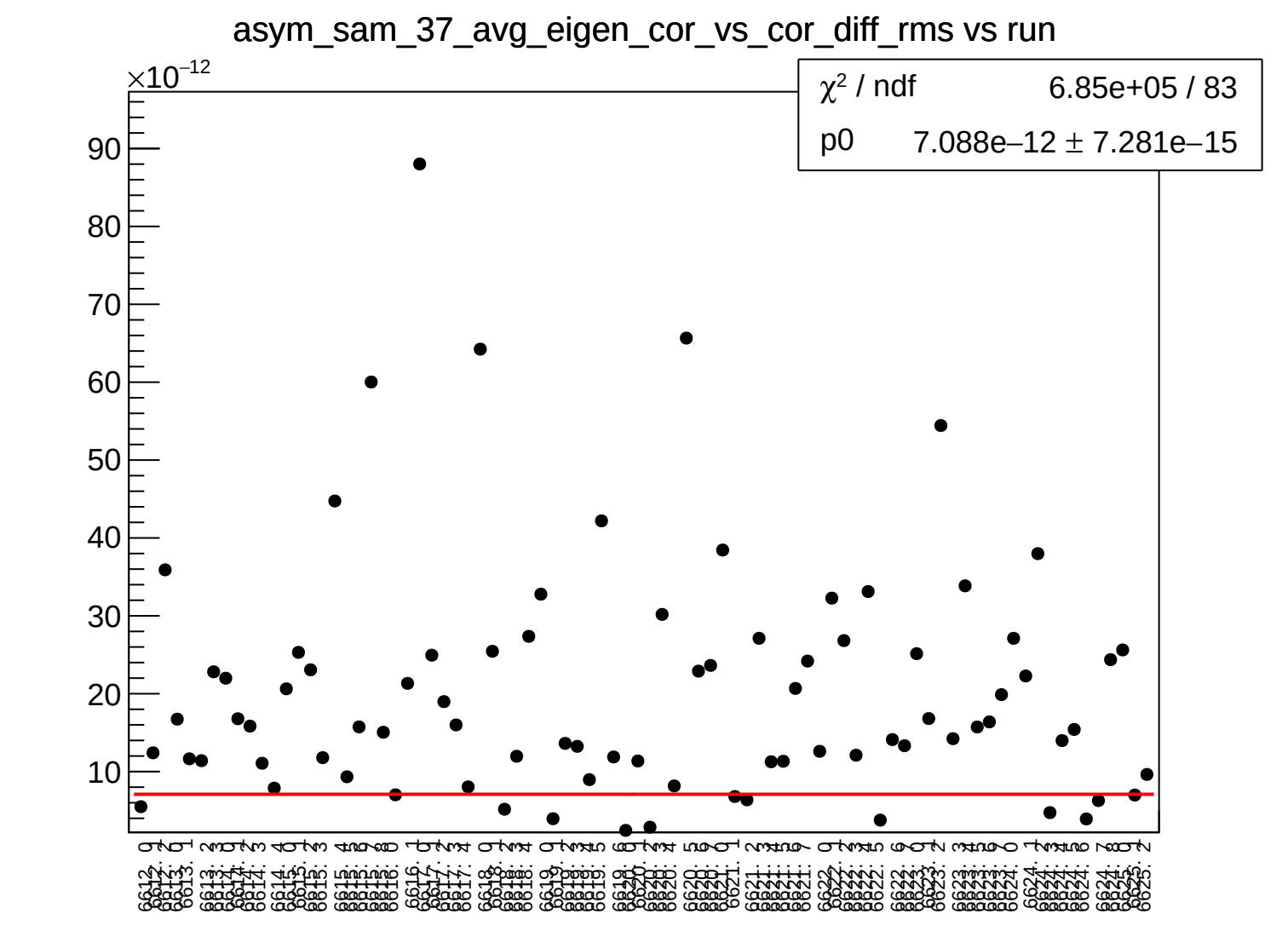

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.334e+04 / 83
p0 47.57 ± 0.03822
110
100
90
80
70
60
50
40
30

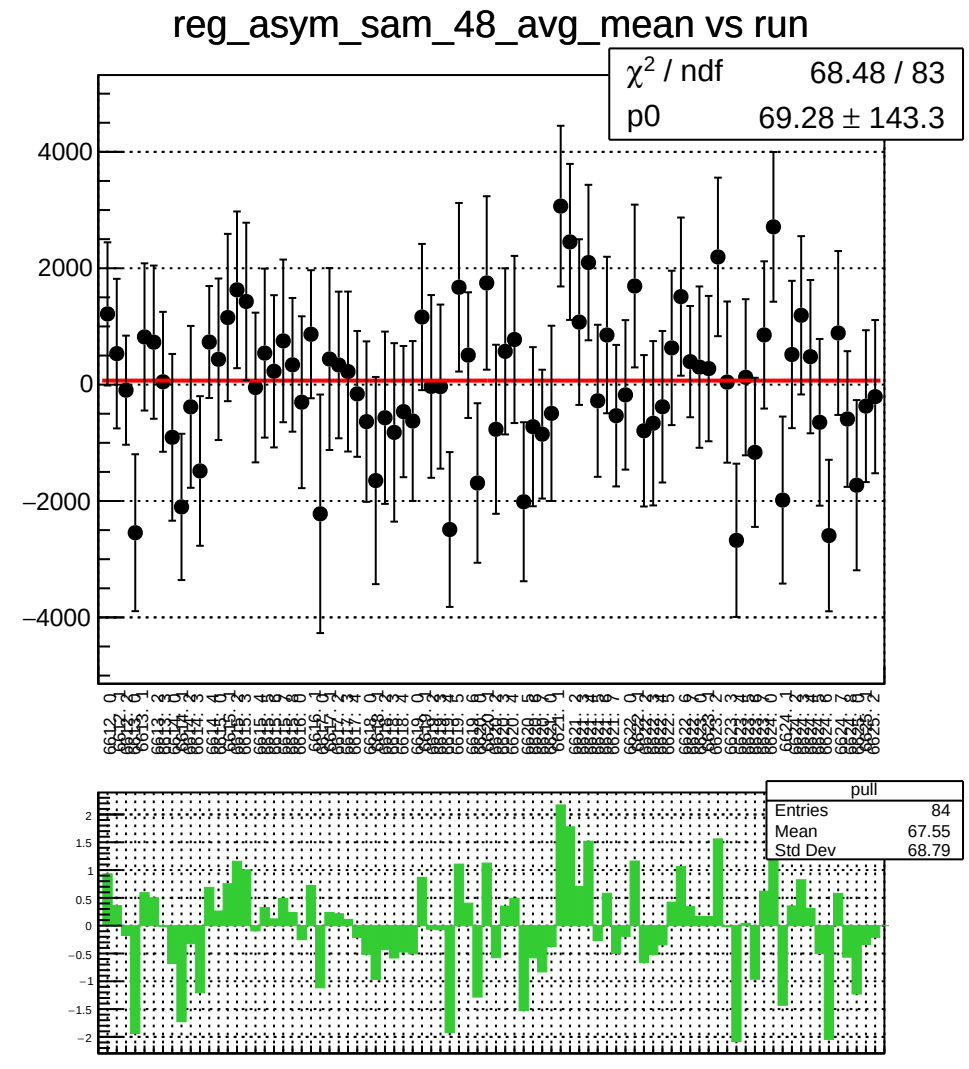

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.99 / 83
p0 0.03789 ± 0.05405
pull
Entries 84
Mean −27.21
Std Dev 0
pull1D
Entries 84
Mean 0.01902
Std Dev 0.9255

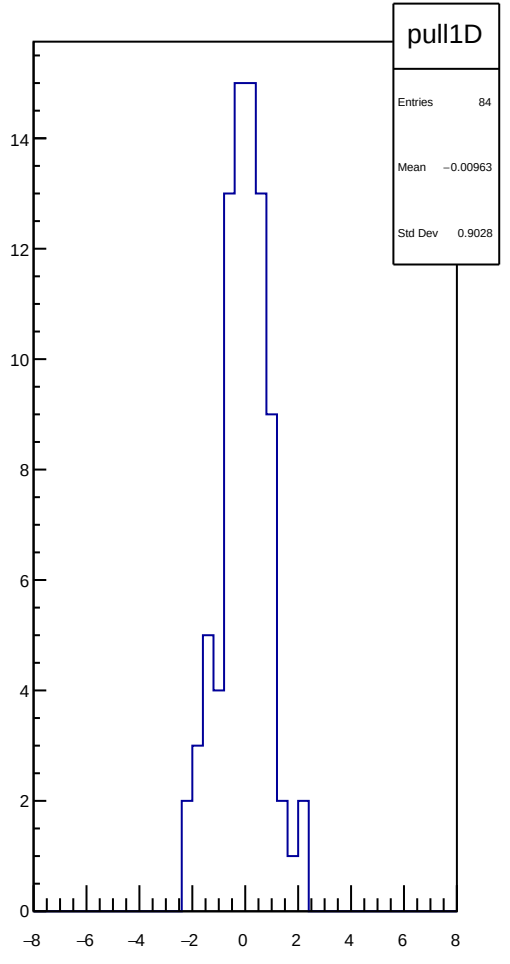

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.334e+04 / 83
p0 47.57 ± 0.03822
110
100
90
80
70
60
50
40
30

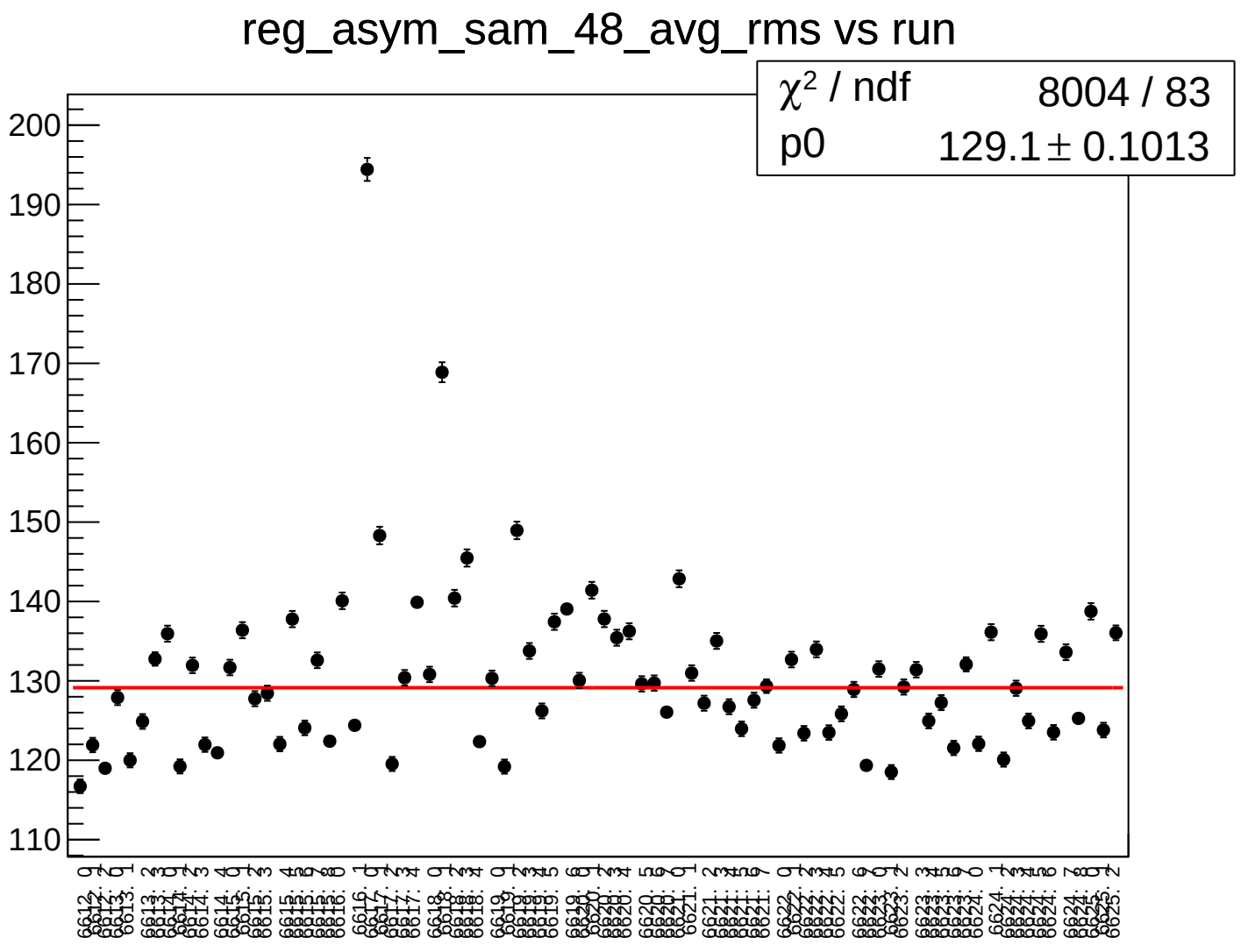

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.75 / 83
p0 −6.696e−17 ± 1.03e−14
pull
Entries 84
Mean 28.06
Std Dev 26.76

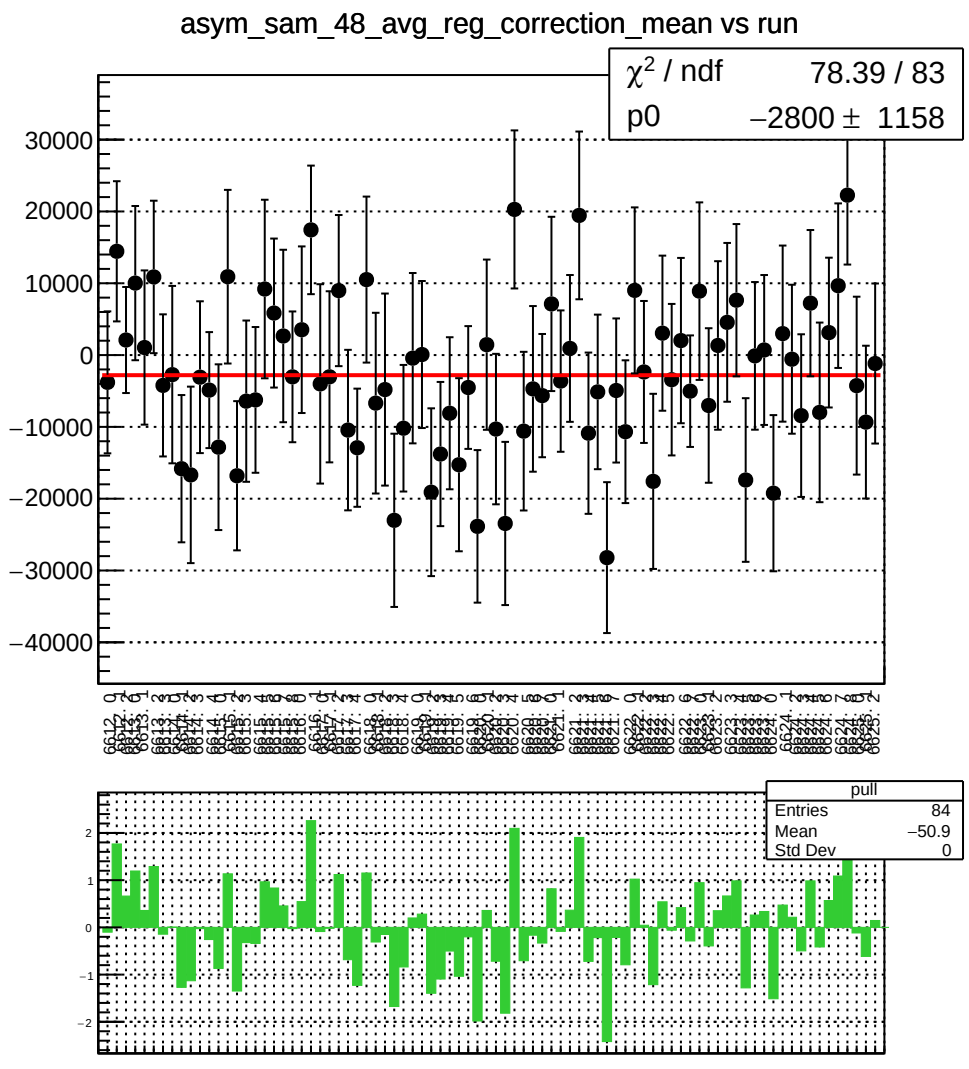

pull1D
Entries 84
Mean 0.0762
Std Dev 0.9402

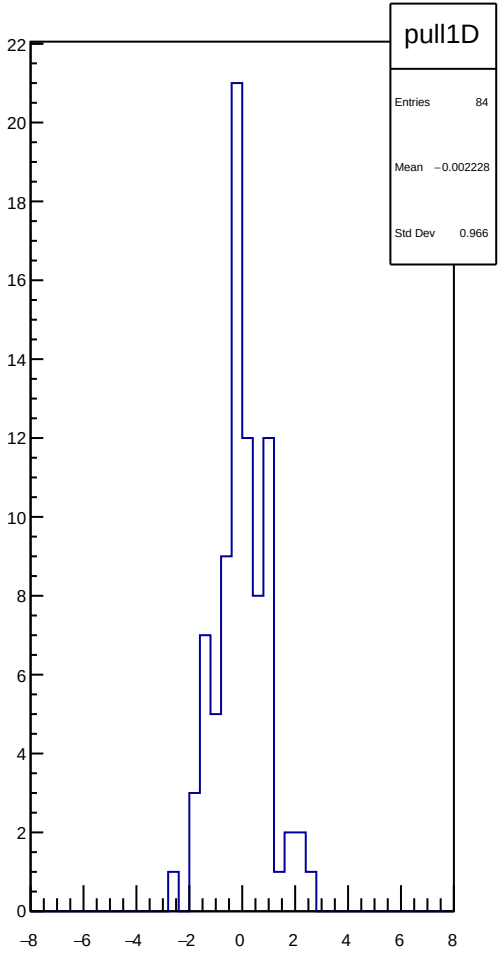

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.85e+05 / 83
p0 7.088e−12 ± 7.281e−15
90
80
70
60
50
40
30
20
10

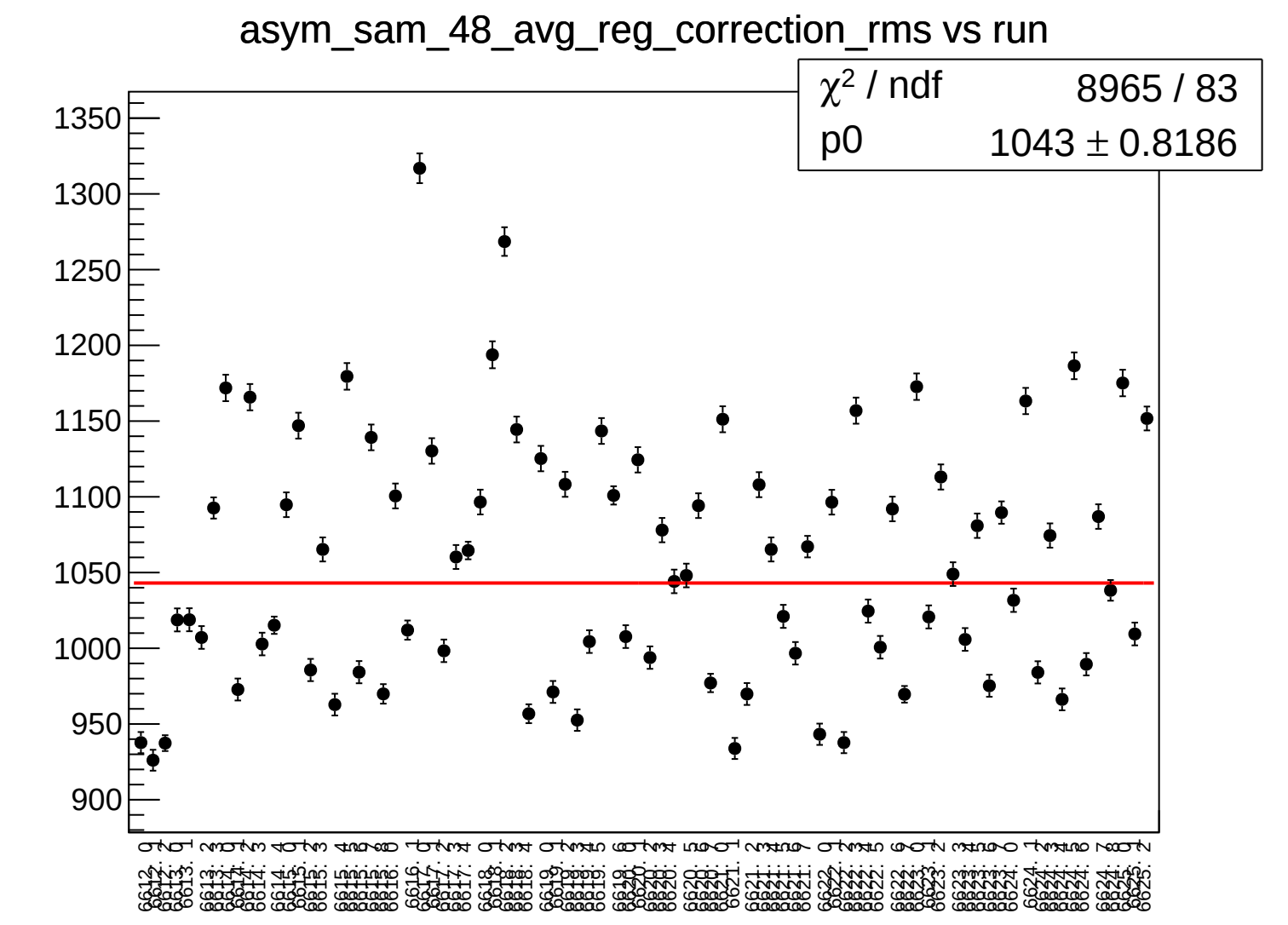

reg_asym_sam_48_avg_mean vs run
χ² / ndf 68.48 / 83
p0 69.28 ± 143.3
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 67.55
Std Dev 68.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

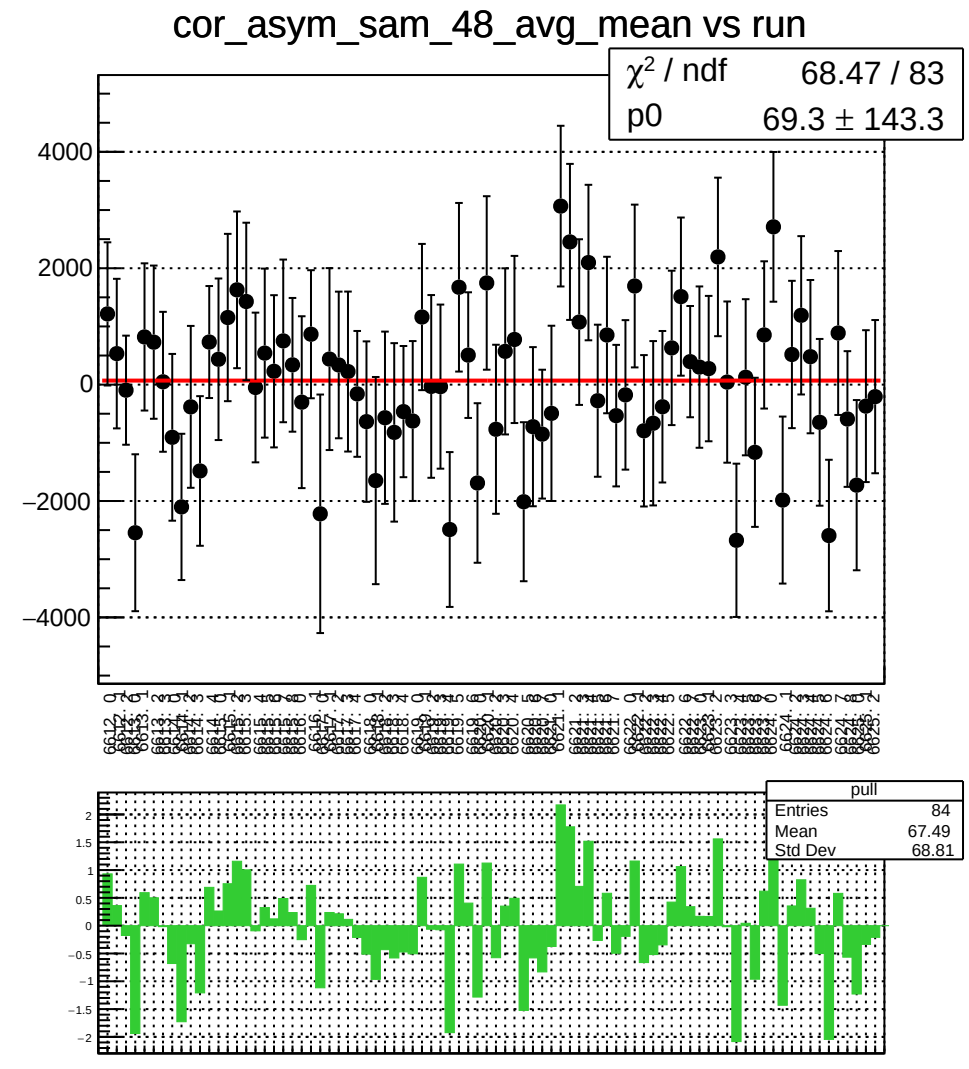

pull1D
Entries 84
Mean −0.00963
Std Dev 0.9028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

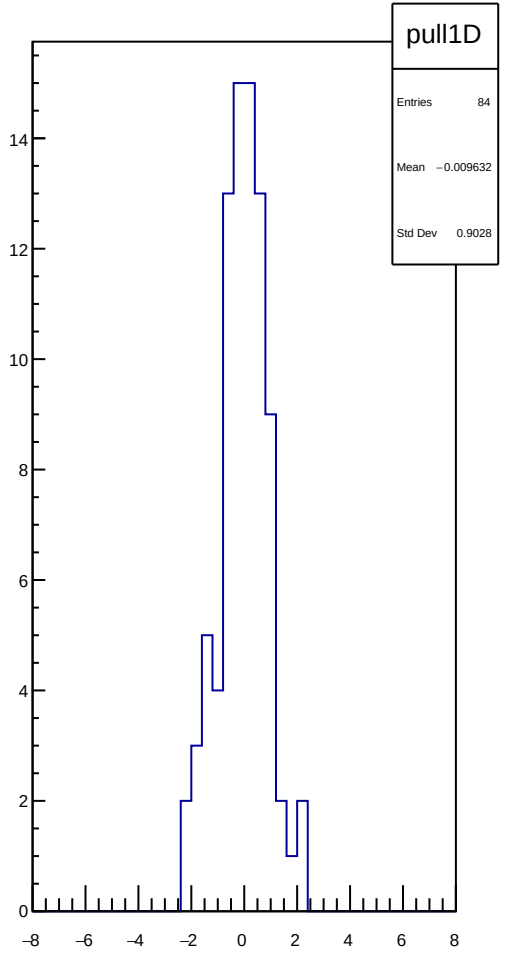

reg_asym_sam_48_avg_rms vs run
χ² / ndf 8004 / 83
p0 129.1 ± 0.1013
200
190
180
170
160
150
140
130
120
110

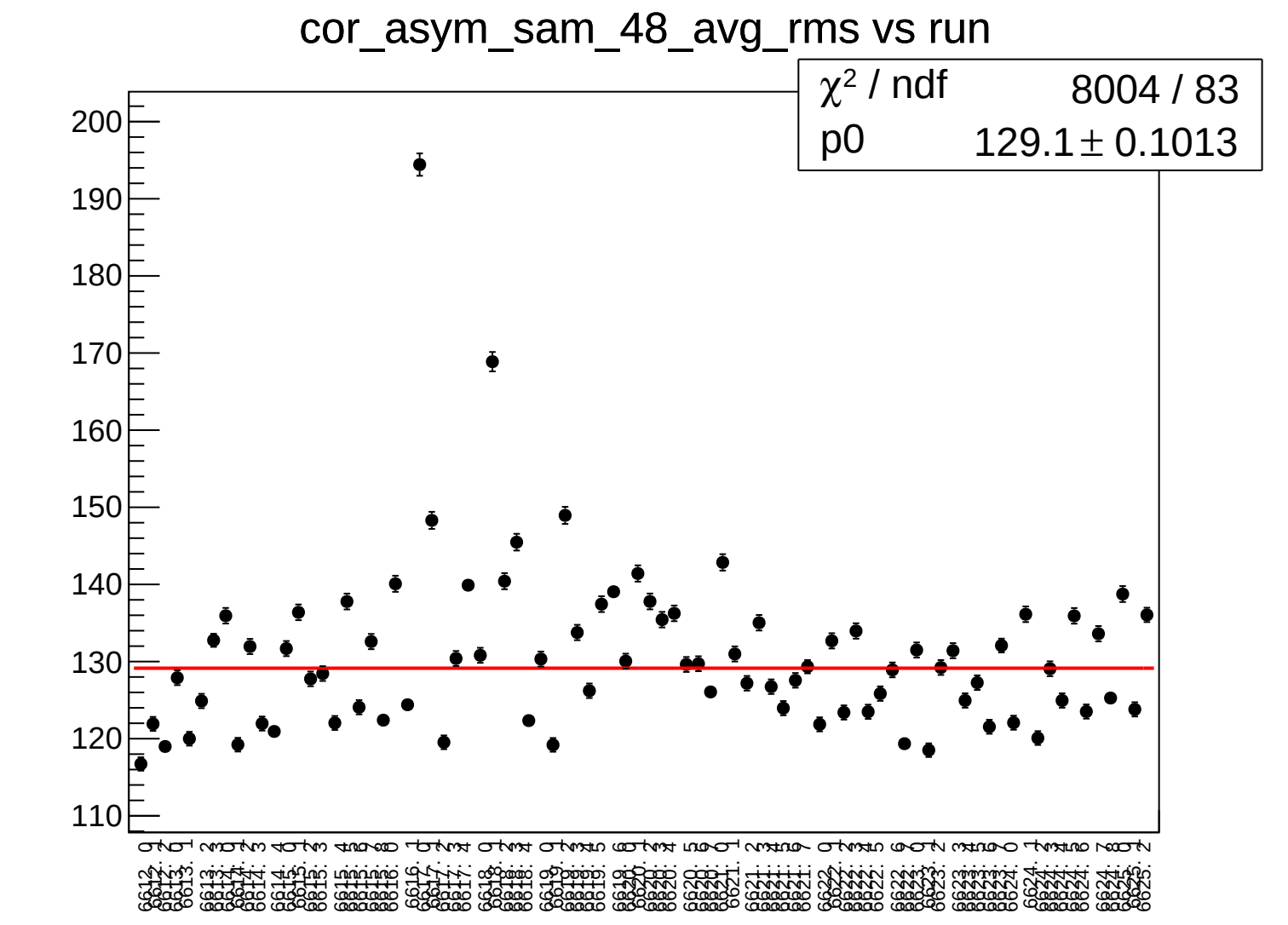

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 78.39 / 83
p0 −2800 ± 1158
pull
Entries 84
Mean −50.9
Std Dev 0

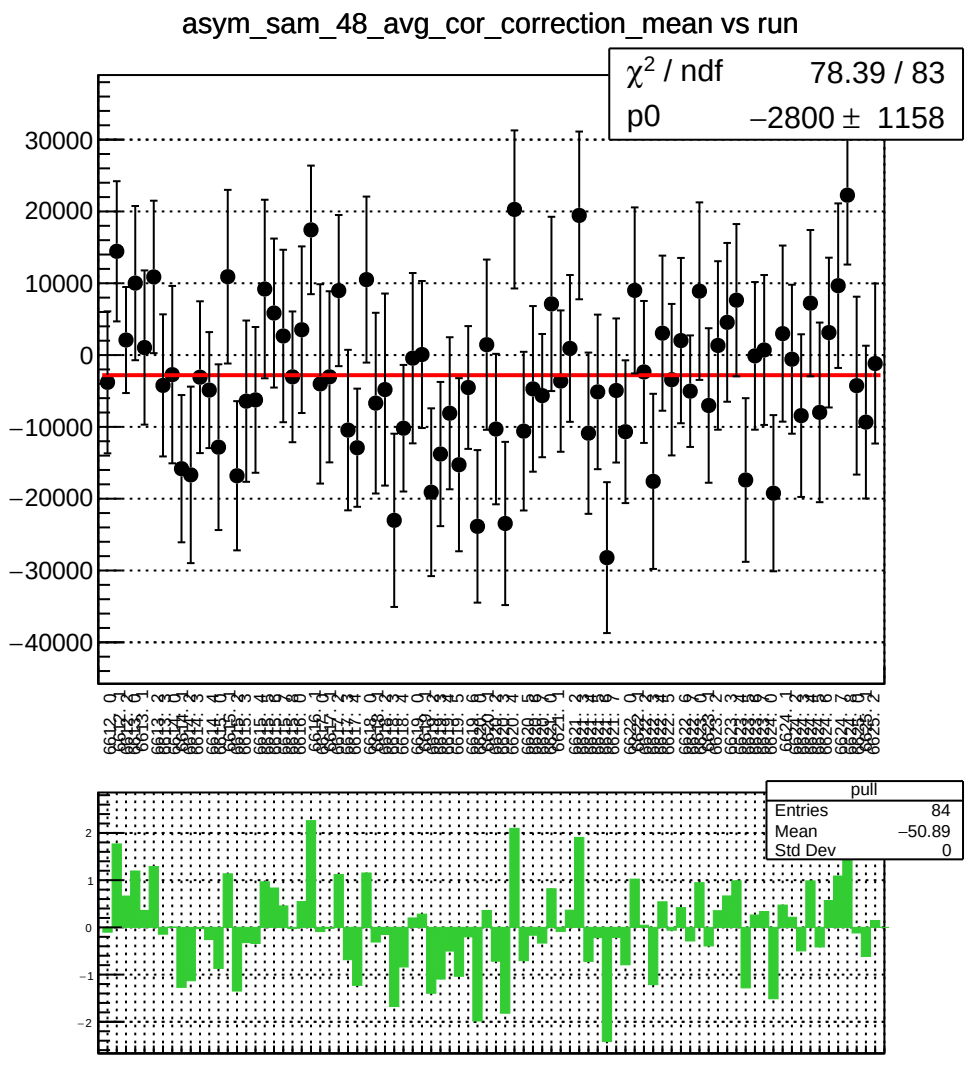

pull1D
Entries 84
Mean −0.002228
Std Dev 0.966

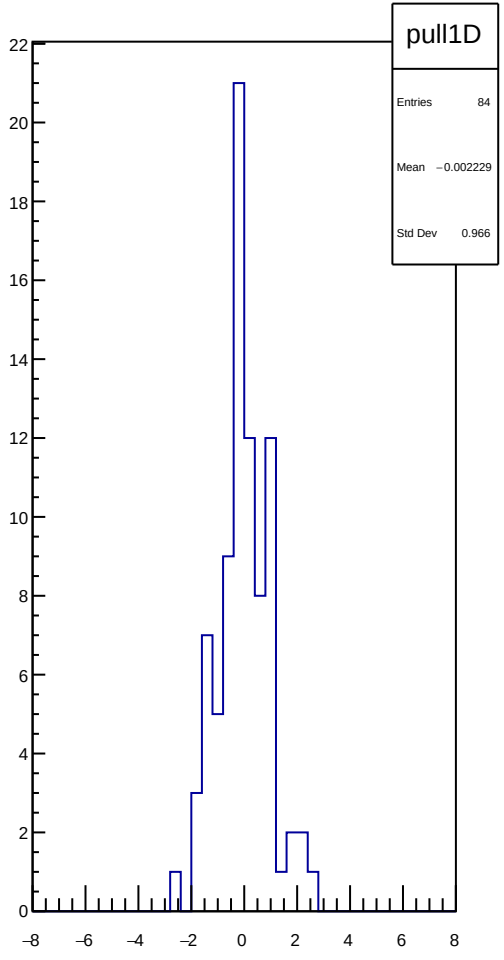

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 8965 / 83
p0 1043 ± 0.8186
1350
1300
1250
1200
1150
1100
1050
1000
950
900

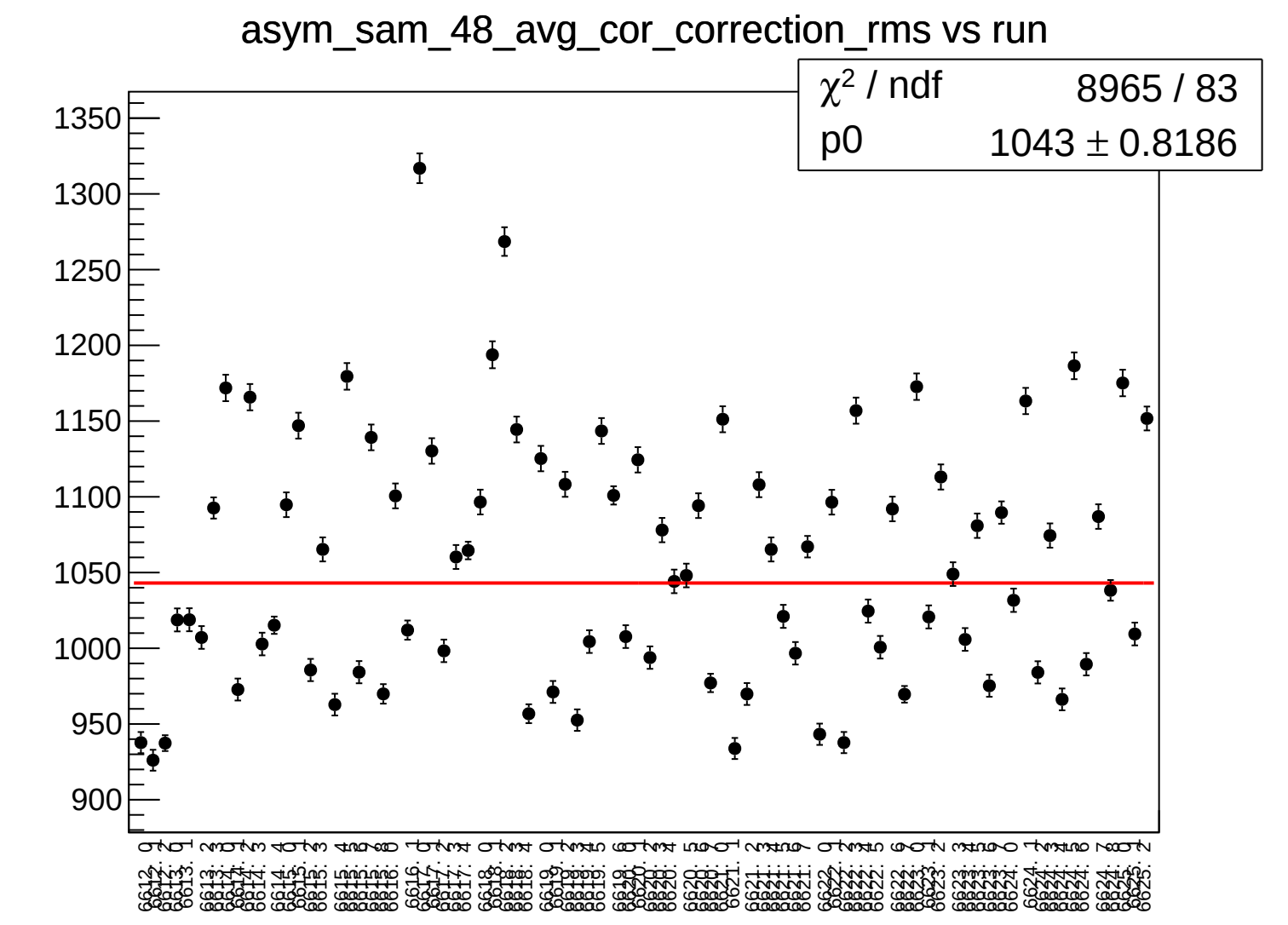

cor_asym_sam_48_avg_mean vs run
χ² / ndf 68.47 / 83
p0 69.3 ± 143.3
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 67.49
Std Dev 68.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

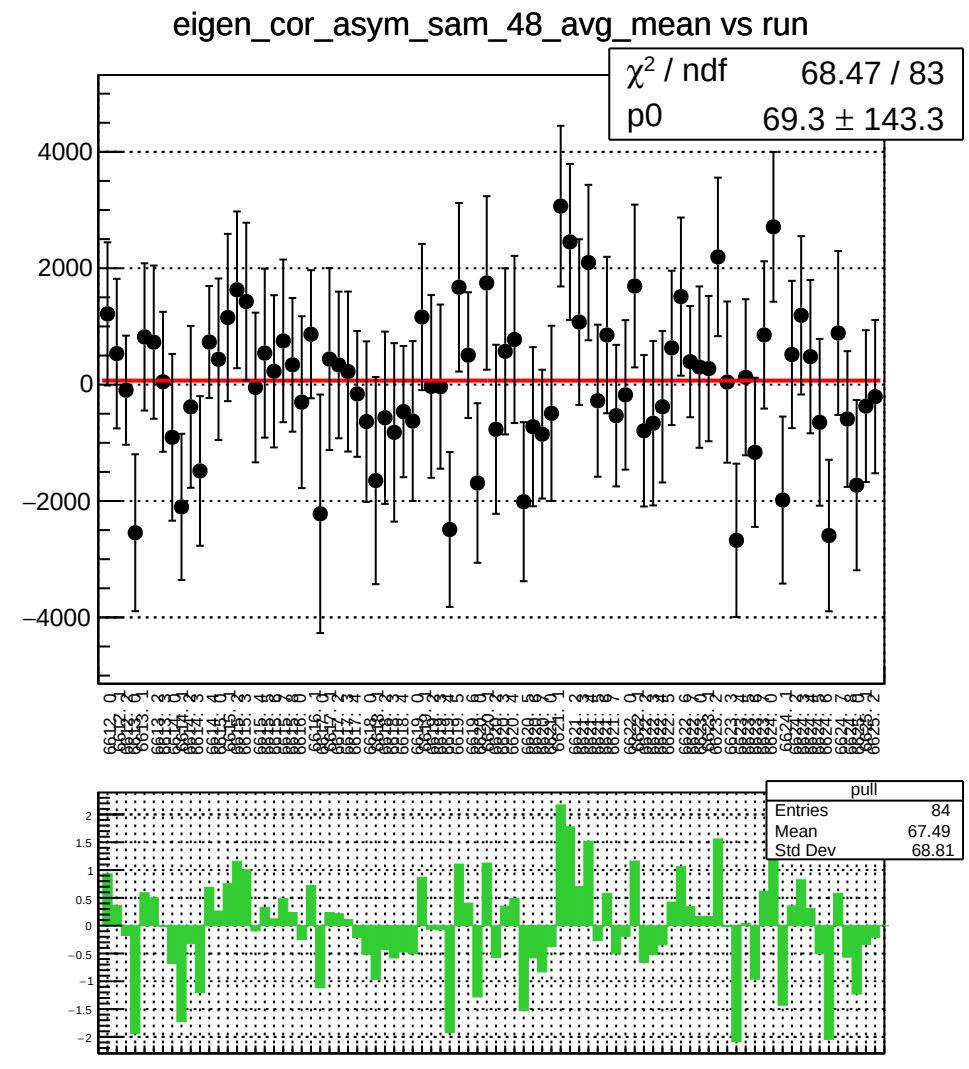

pull1D
Entries 84
Mean −0.009632
Std Dev 0.9028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

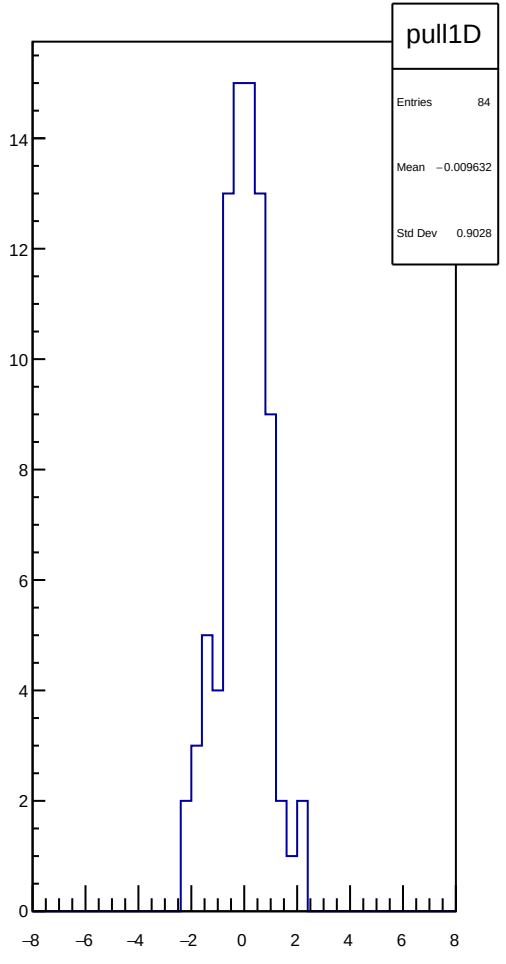

cor_asym_sam_48_avg_rms vs run
χ² / ndf 8004 / 83
p0 129.1 ± 0.1013
200
190
180
170
160
150
140
130
120
110

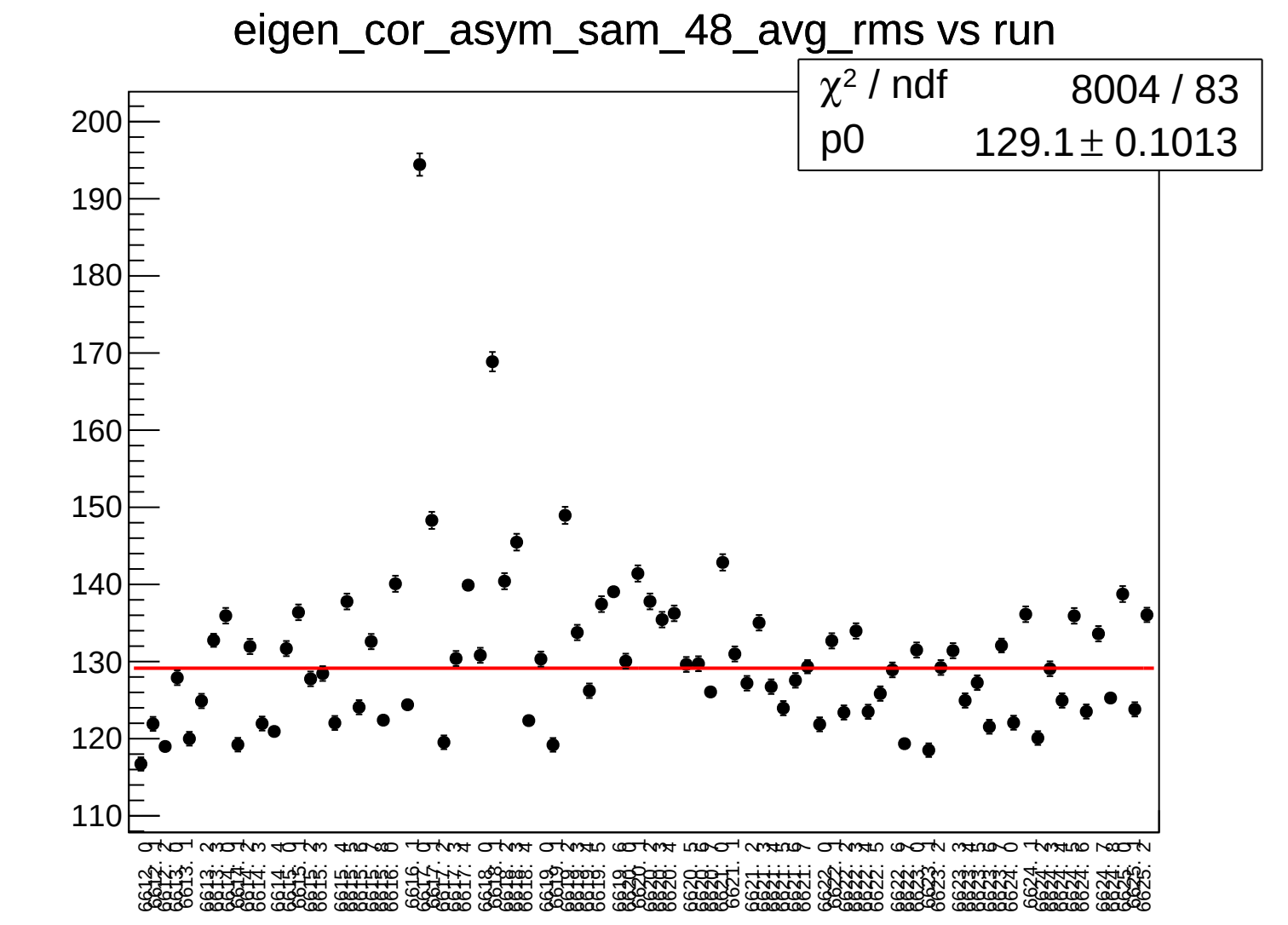

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 78.39 / 83
p0 −2800 ± 1158
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −50.89
Std Dev 0
2
1
0
−1
−2

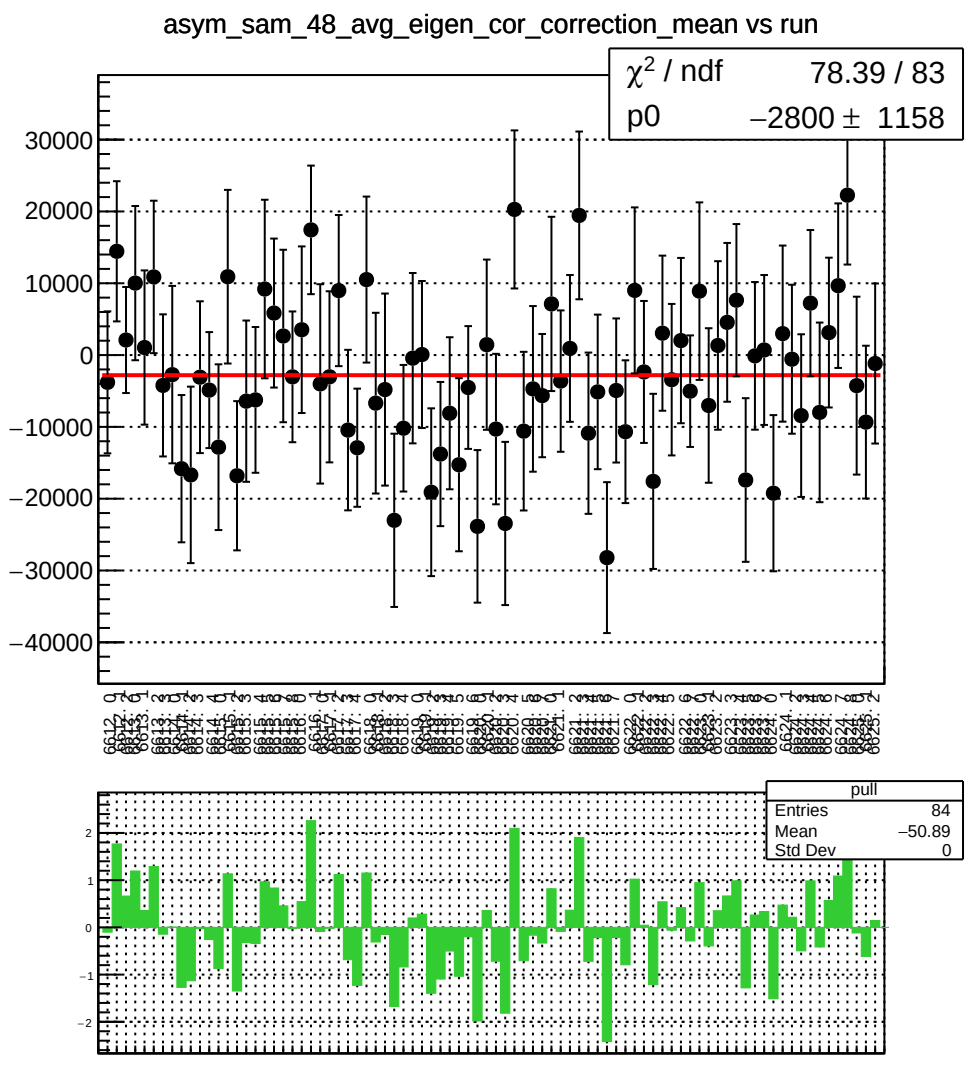

pull1D
Entries 84
Mean −0.002229
Std Dev 0.966
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

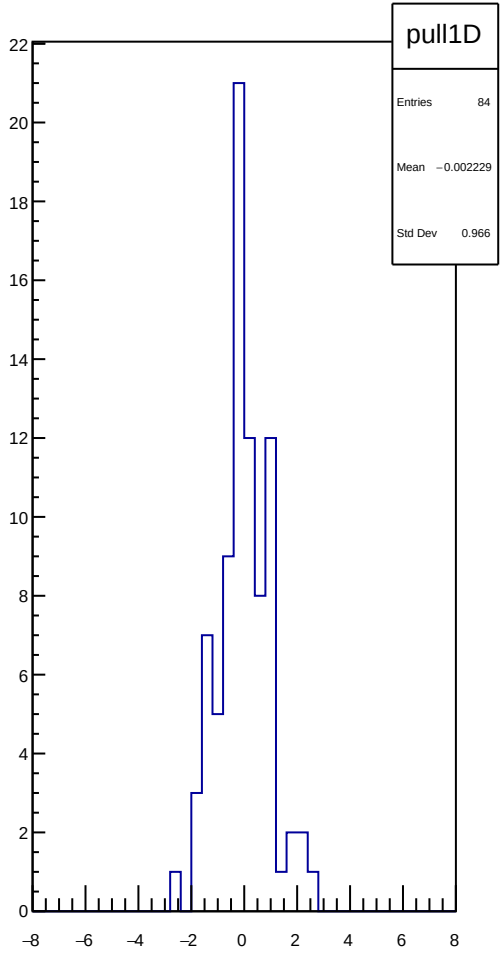

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 8965 / 83
p0 1043 ± 0.8186
1350
1300
1250
1200
1150
1100
1050
1000
950
900

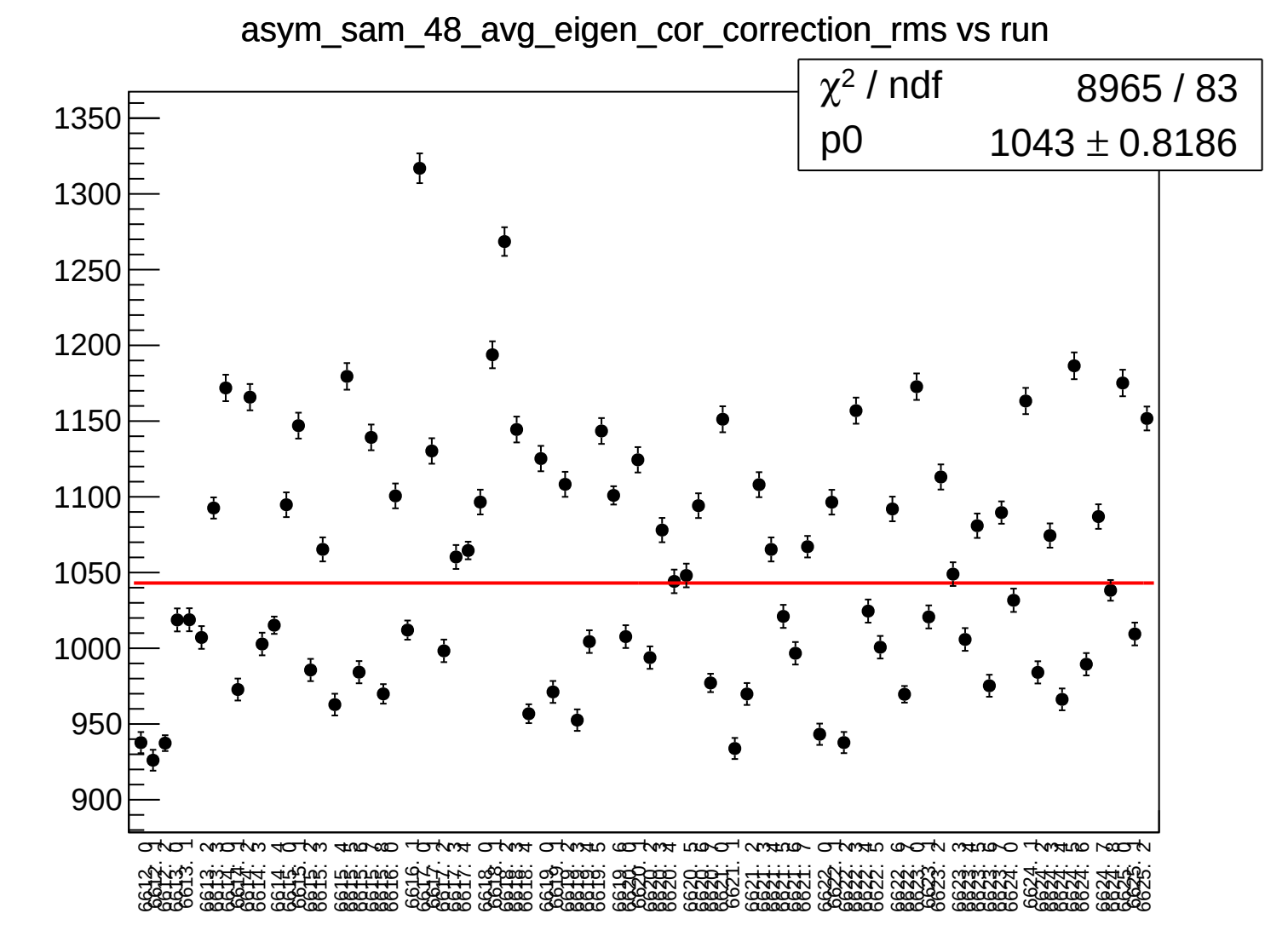

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 68.47 / 83
p0 69.3 ± 143.3
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 67.49
Std Dev 68.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

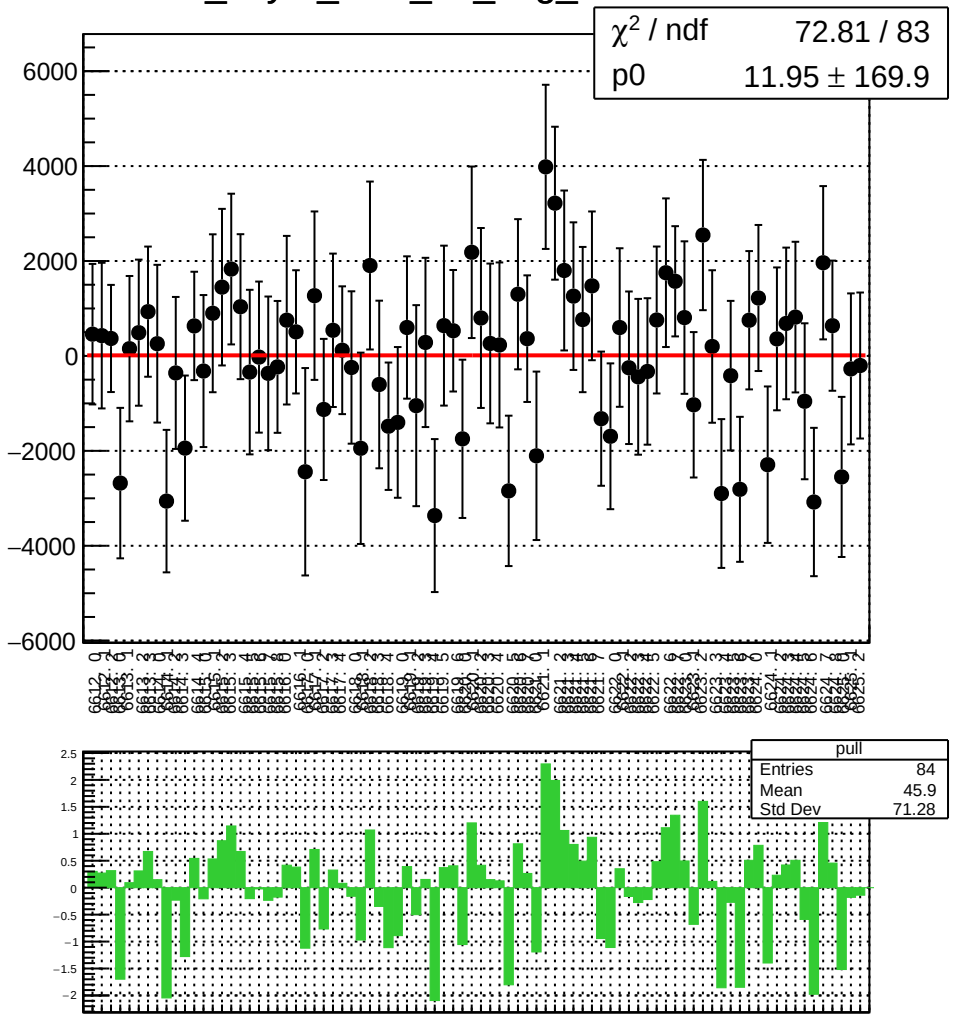

pull1D
Entries 84
Mean −0.009632
Std Dev 0.9028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

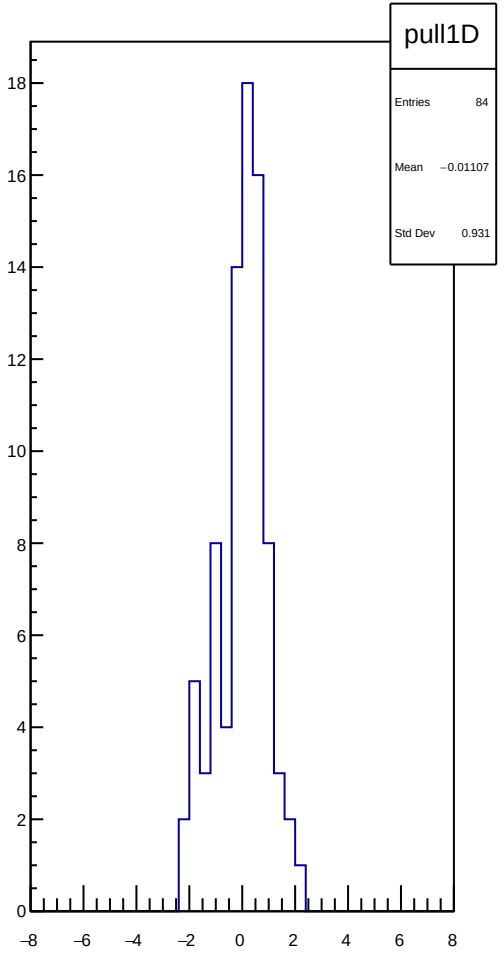

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 8004 / 83
p0 129.1 ± 0.1013
200
190
180
170
160
150
140
130
120
110

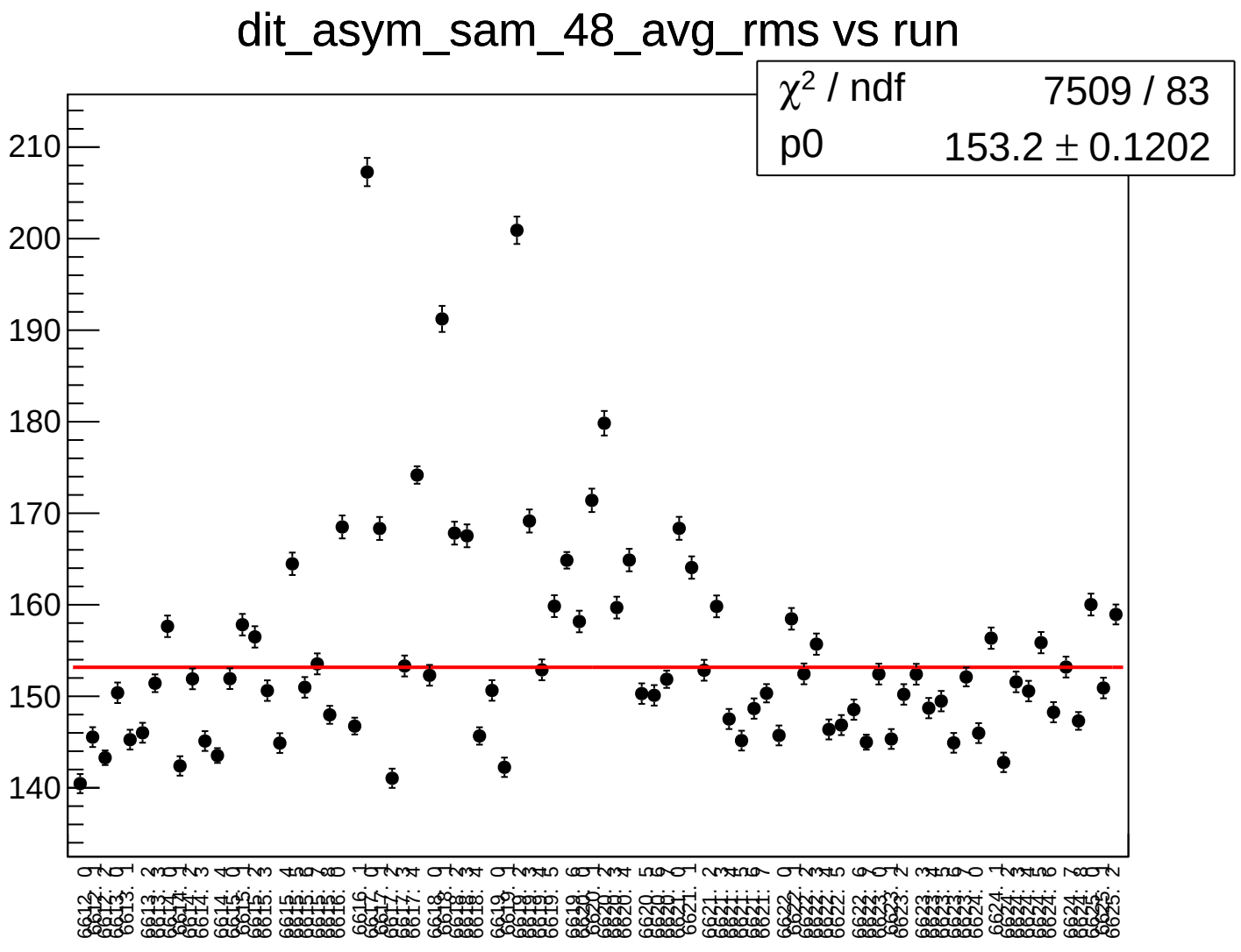

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.39 / 83
p0 −2800 ± 1158
pull
Entries 84
Mean −50.89
Std Dev 0

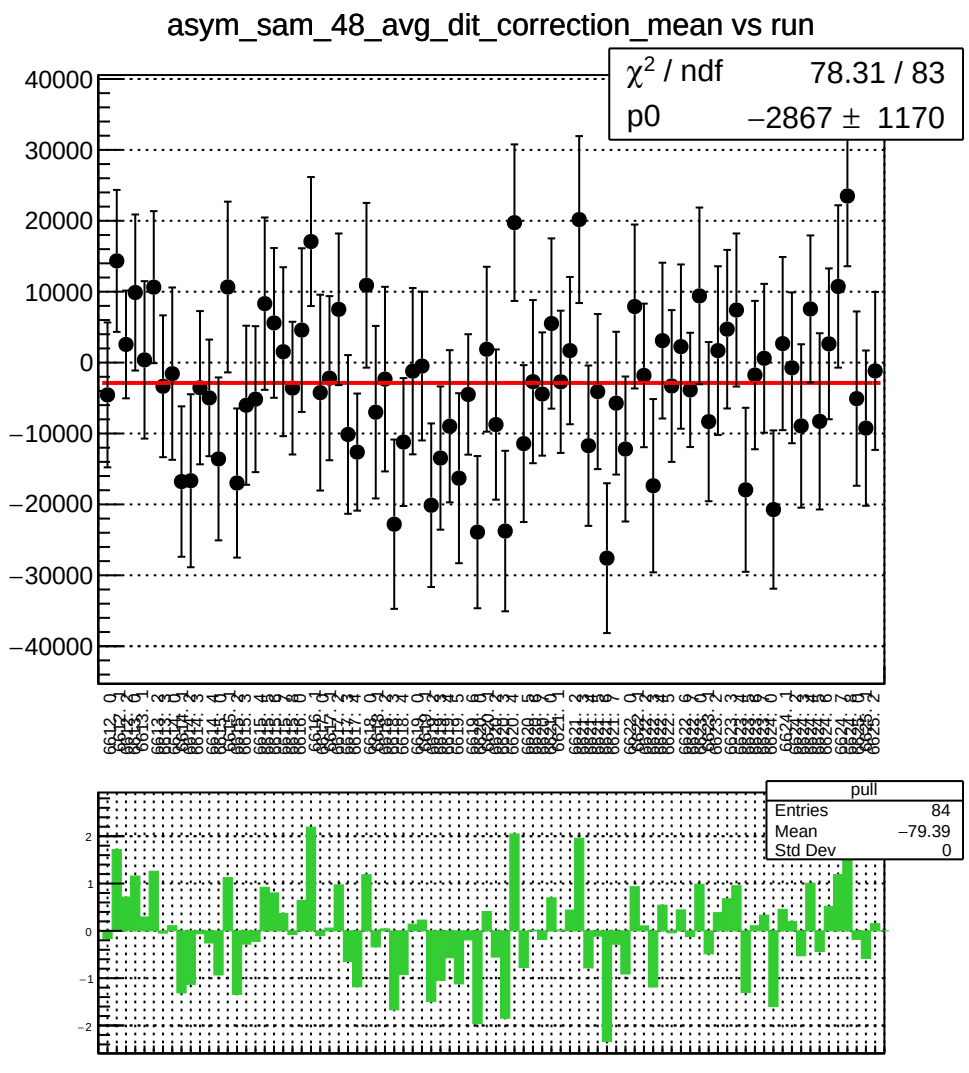

pull1D
Entries 84
Mean −0.002229
Std Dev 0.966

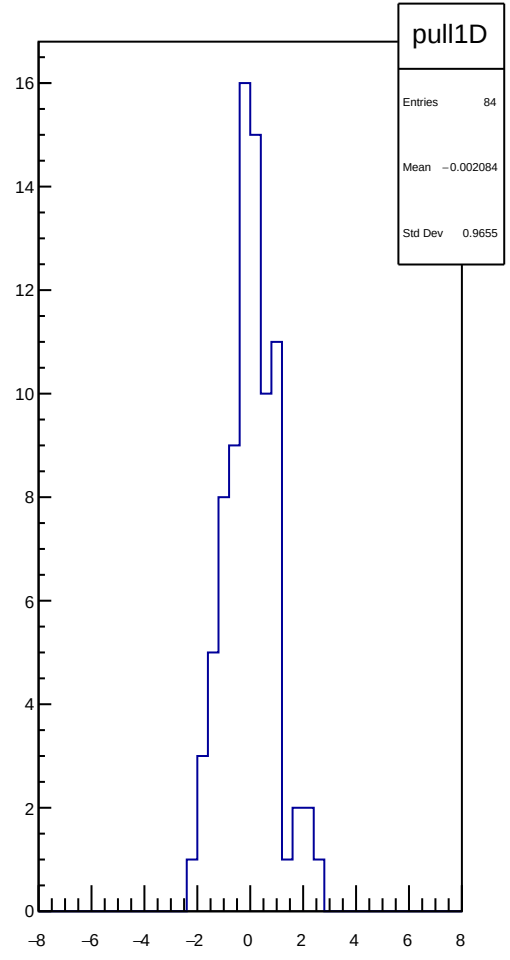

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 8965 / 83
p0 1043 ± 0.8186
1350
1300
1250
1200
1150
1100
1050
1000
950
900

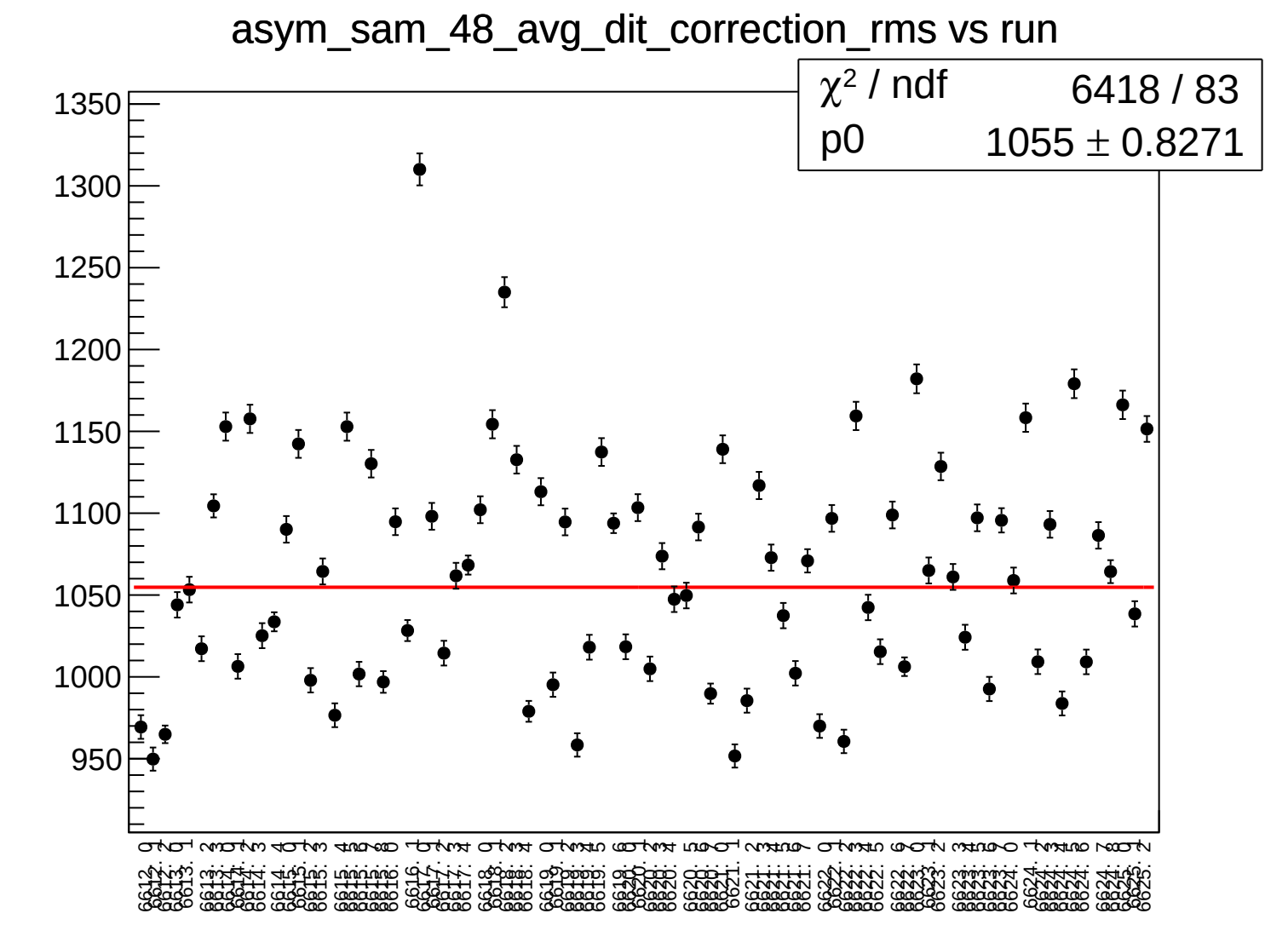

dit_asym_sam_48_avg_mean vs run
χ² / ndf 72.81 / 83
p0 11.95 ± 169.9
pull
Entries 84
Mean 45.9
Std Dev 71.28

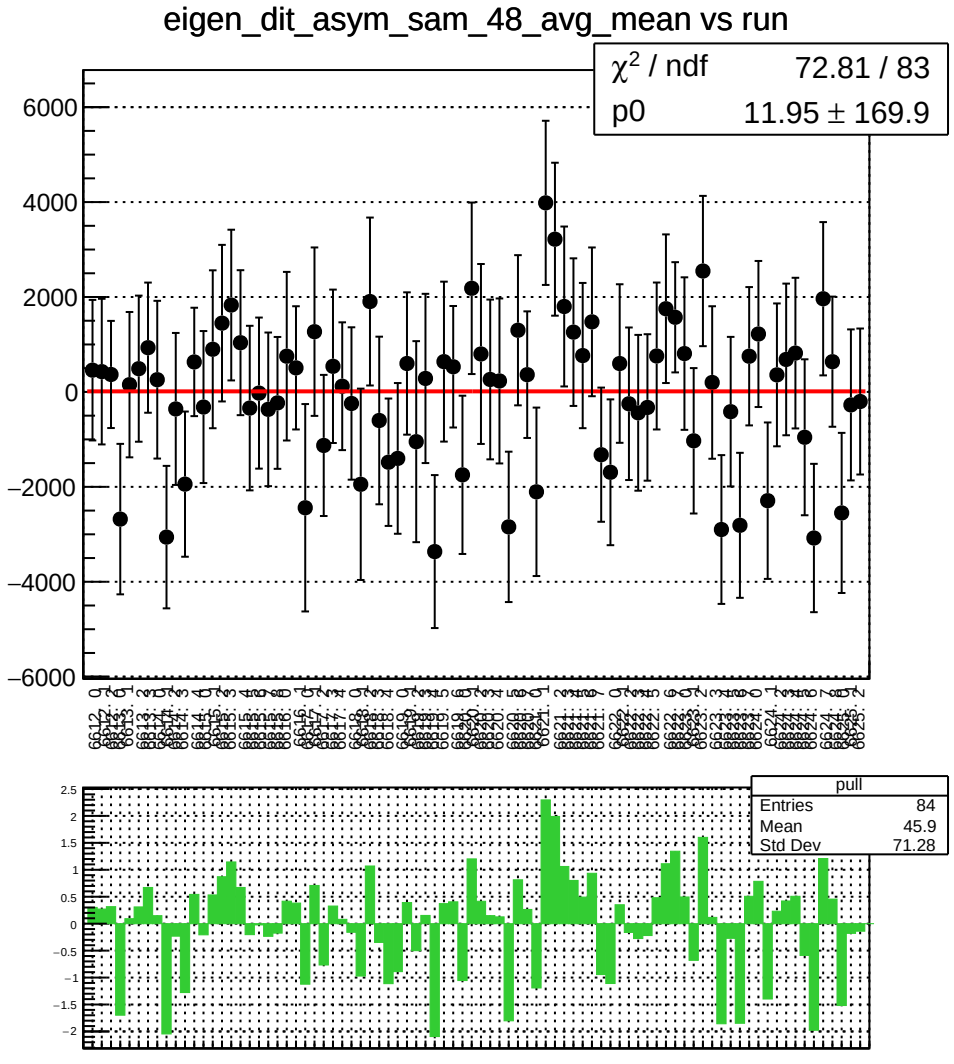

pull1D
Entries 84
Mean −0.01107
Std Dev 0.931

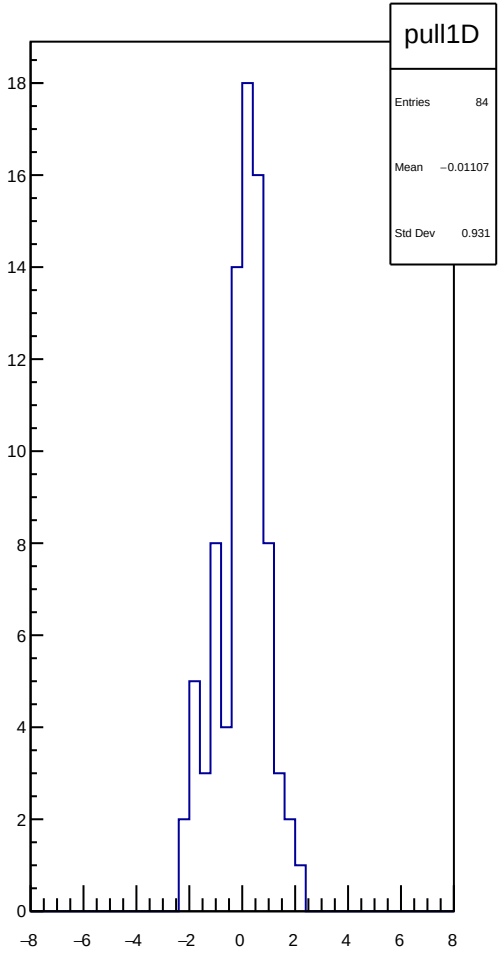

dit_asym_sam_48_avg_rms vs run
χ² / ndf 7509 / 83
p0 153.2 ± 0.1202
210
200
190
180
170
160
150
140

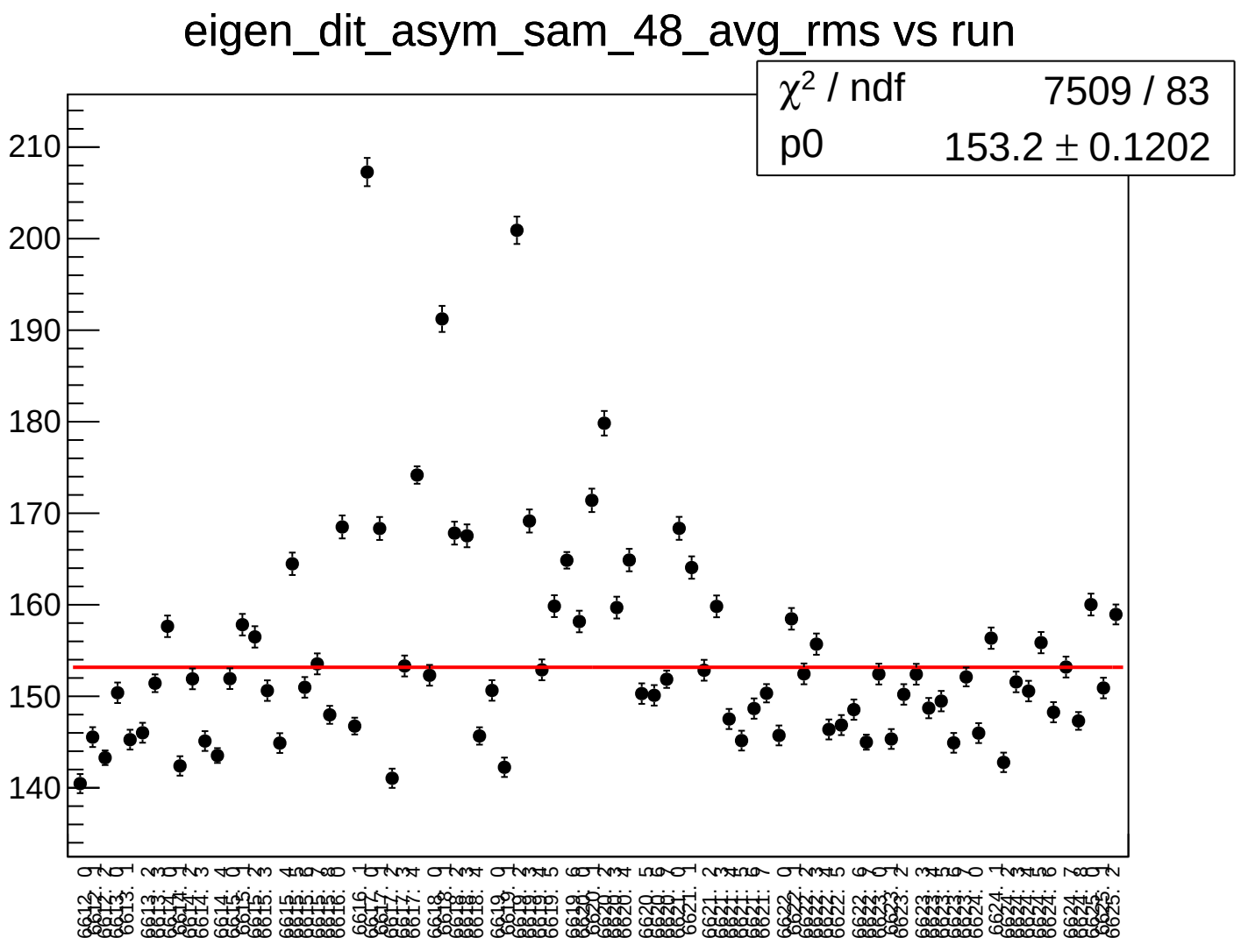

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 78.31 / 83
p0 −2867 ± 1170
pull
Entries 84
Mean −79.39
Std Dev 0

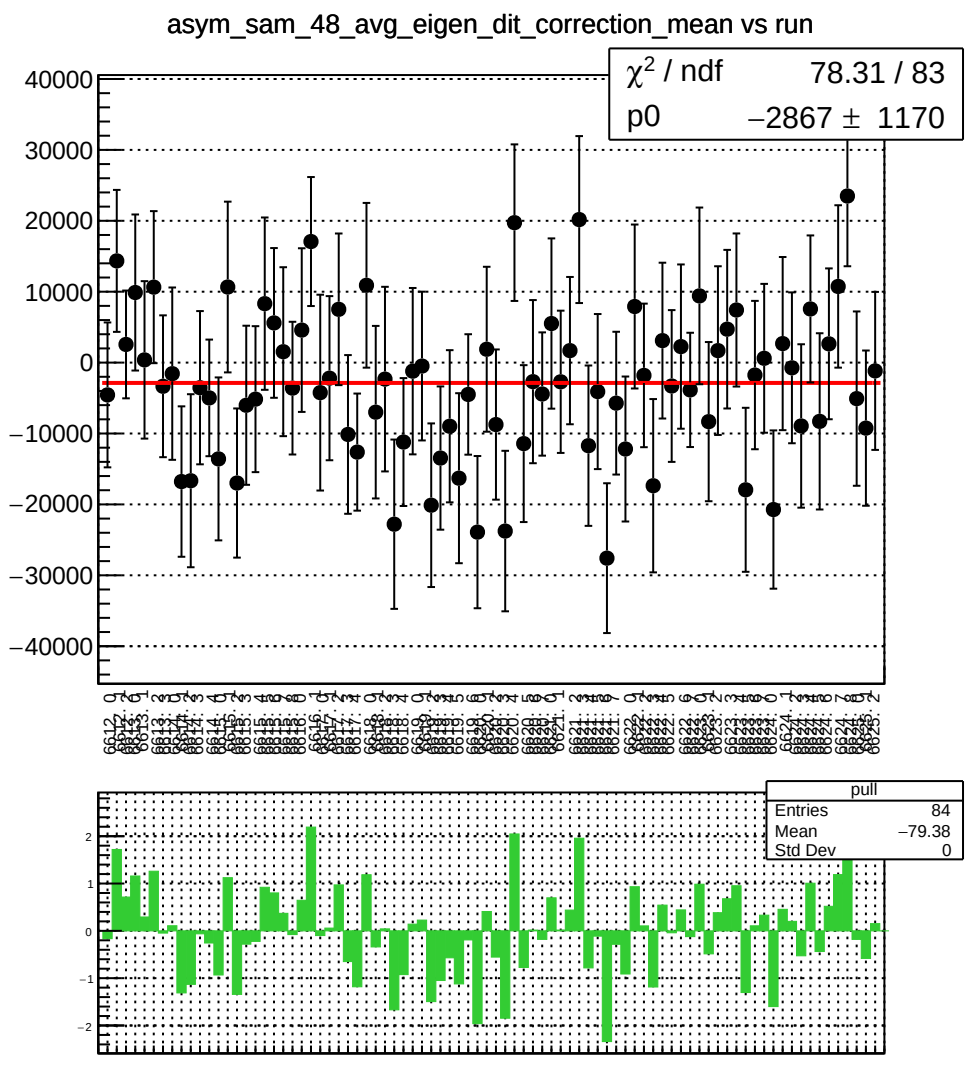

pull1D
Entries 84
Mean −0.002084
Std Dev 0.9655

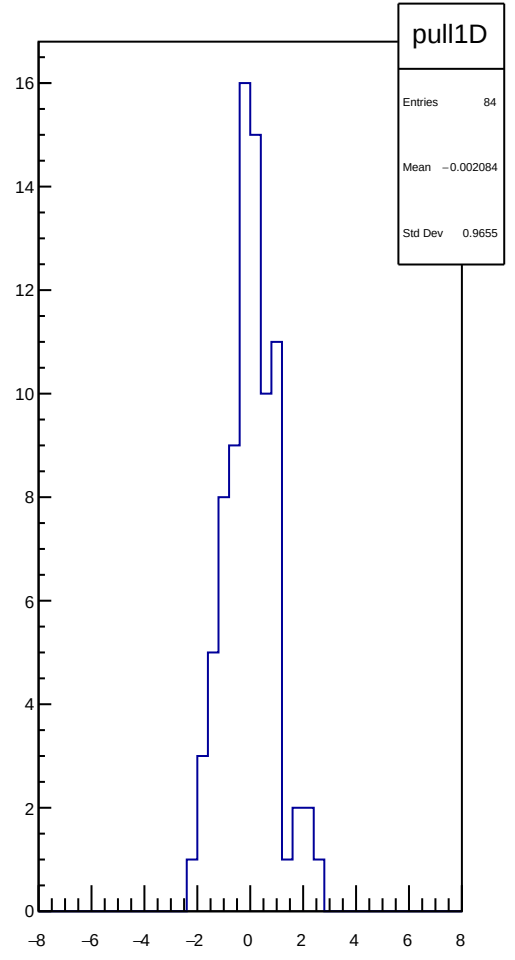

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 6418 / 83
p0 1055 ± 0.8271
1350
1300
1250
1200
1150
1100
1050
1000
950

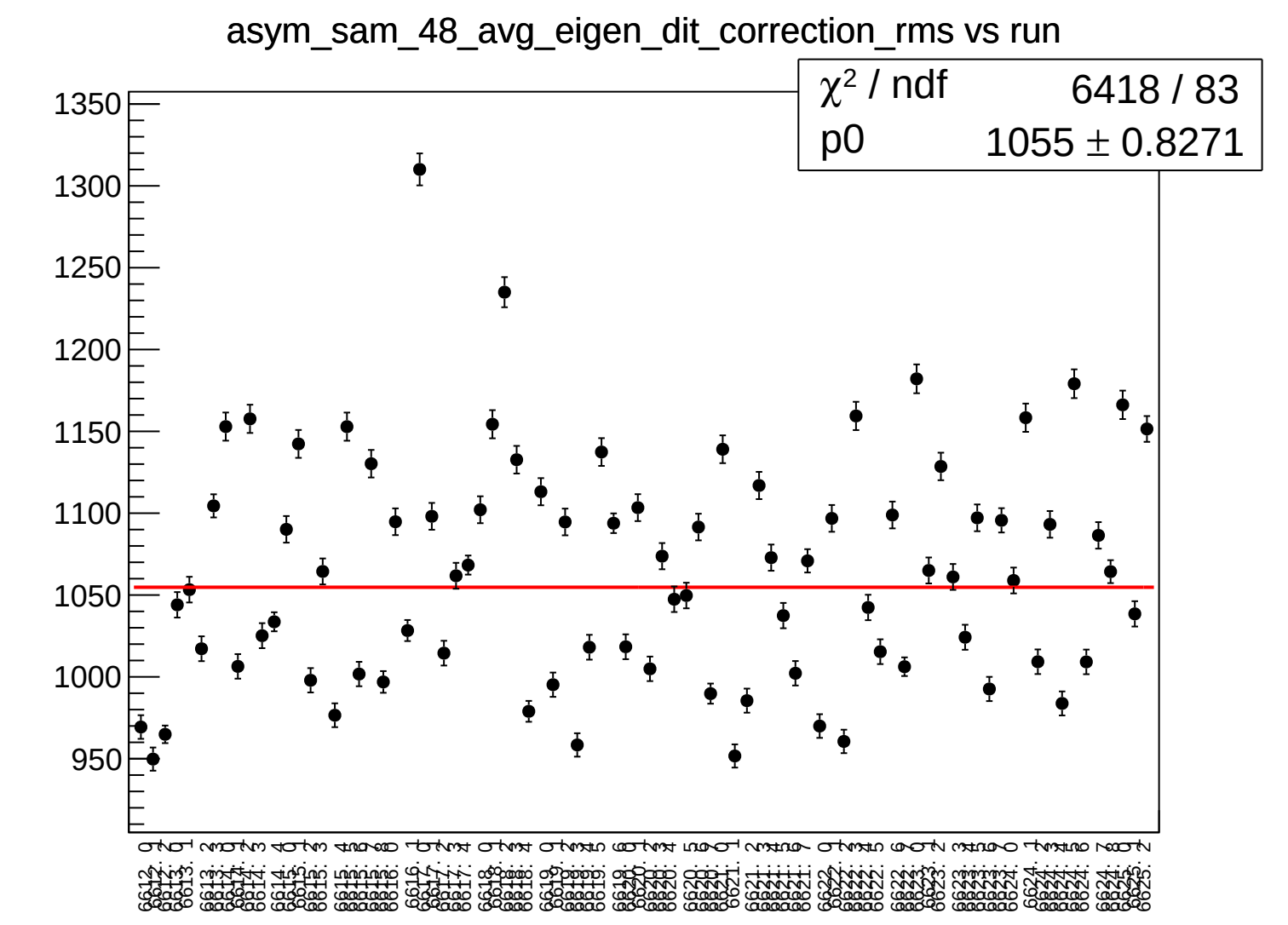

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 72.81 / 83
p0 11.95 ± 169.9
pull
Entries 84
Mean 45.9
Std Dev 71.28

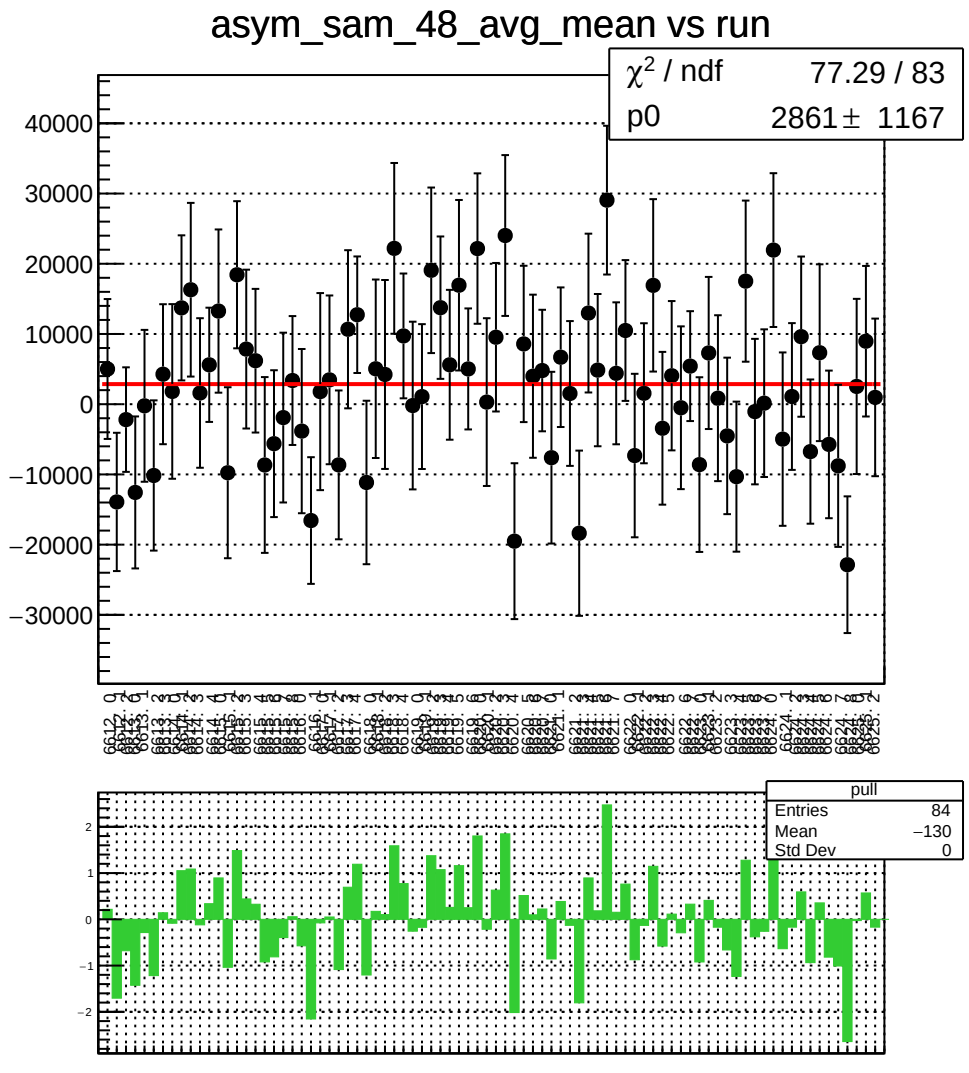

pull1D
Entries 84
Mean −0.01107
Std Dev 0.931

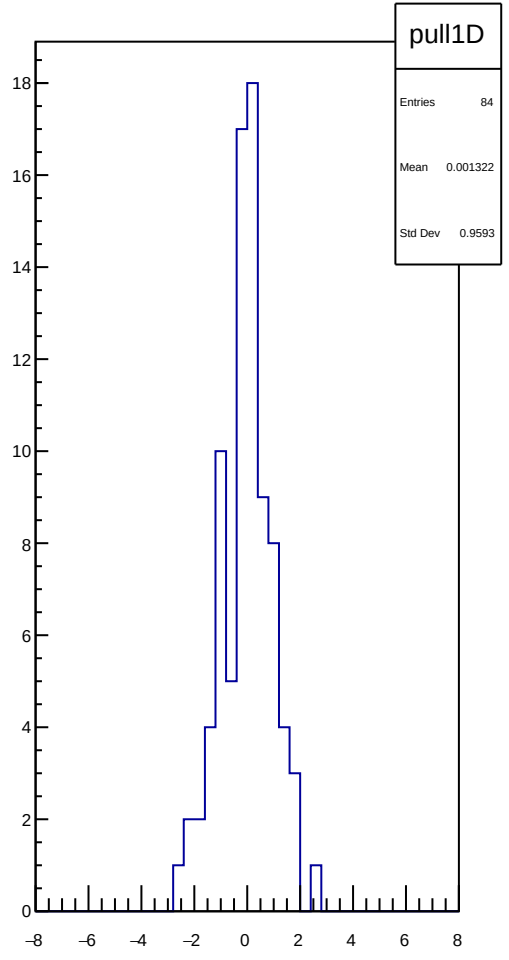

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 7509 / 83
p0 153.2 ± 0.1202
210
200
190
180
170
160
150
140

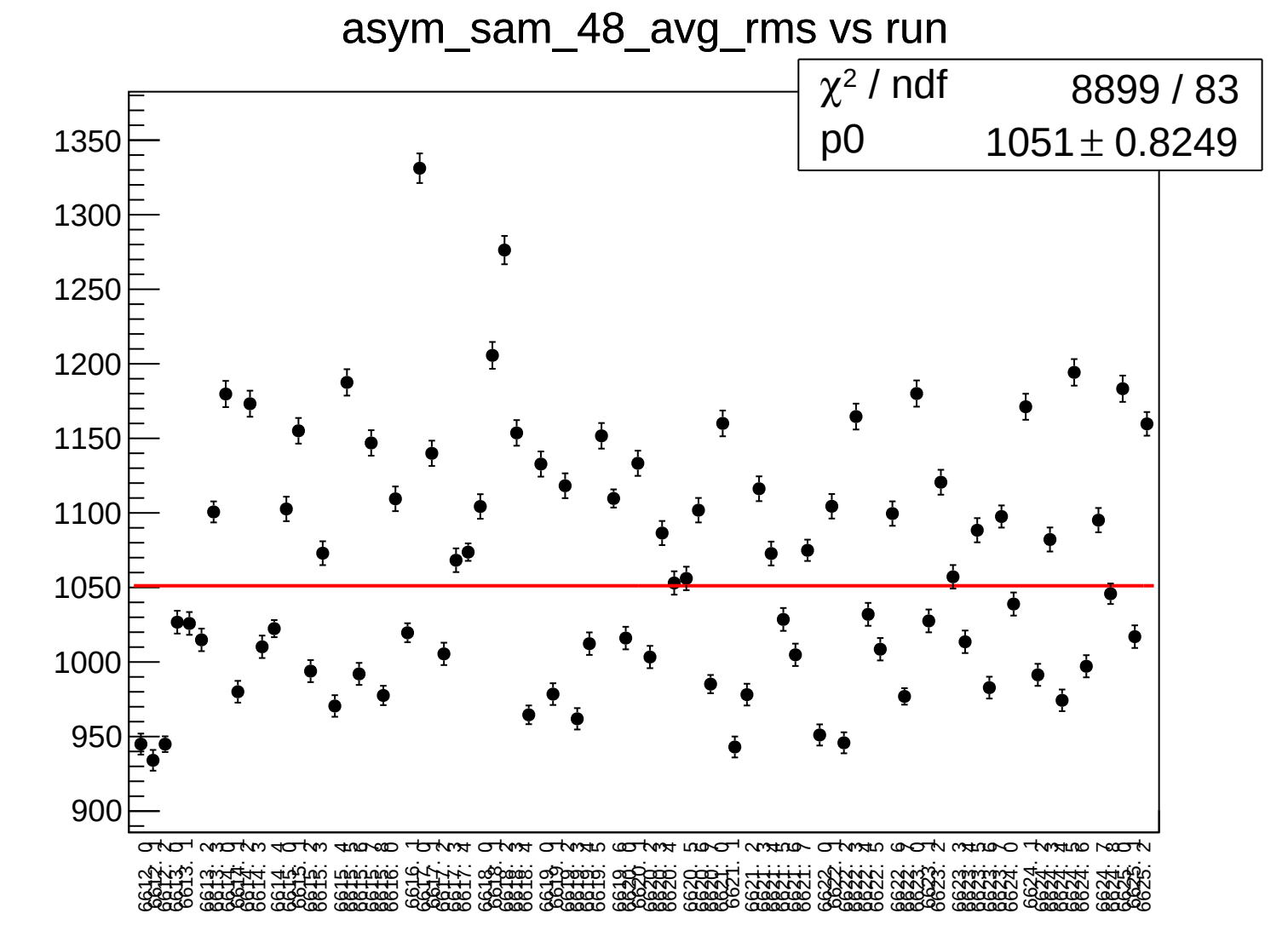

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 78.31 / 83
p0 −2867 ± 1170
pull
Entries 84
Mean −79.38
Std Dev 0

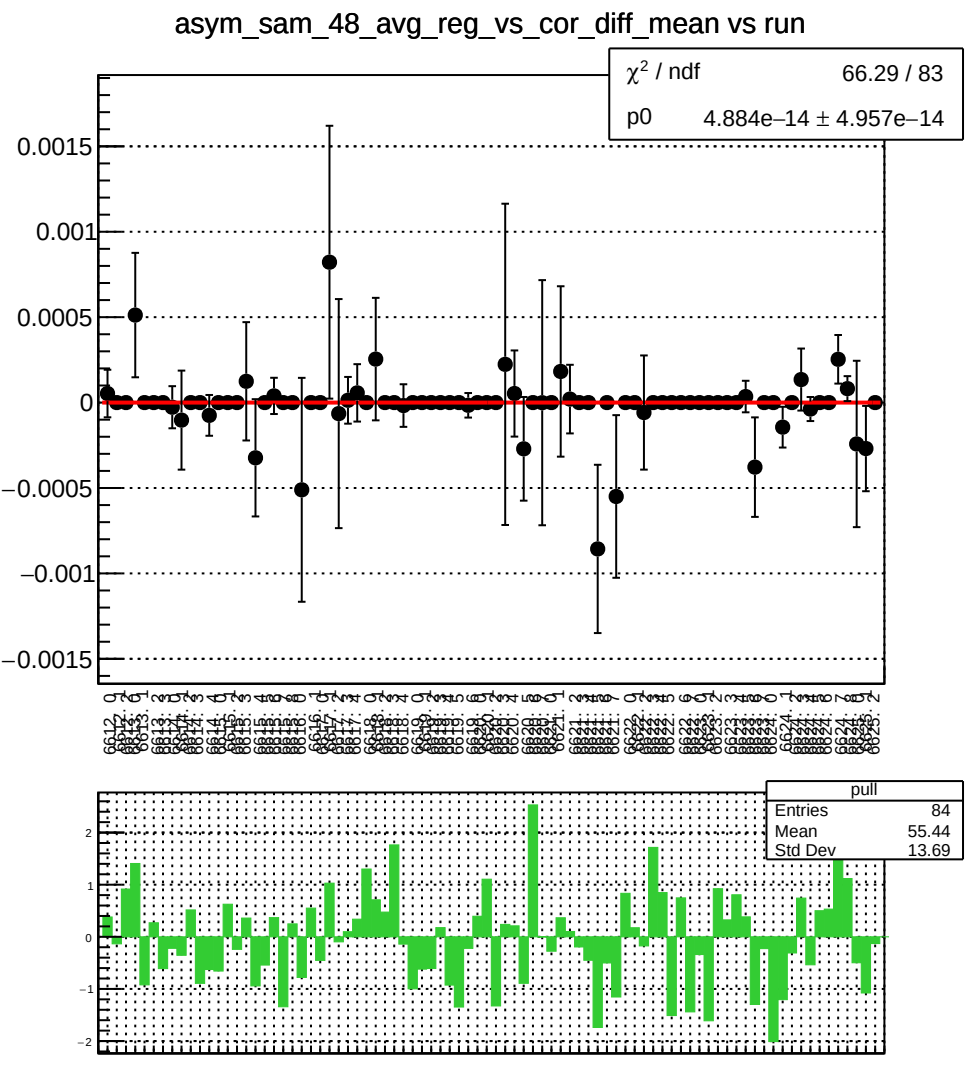

pull1D
Entries 84
Mean −0.002084
Std Dev 0.9655

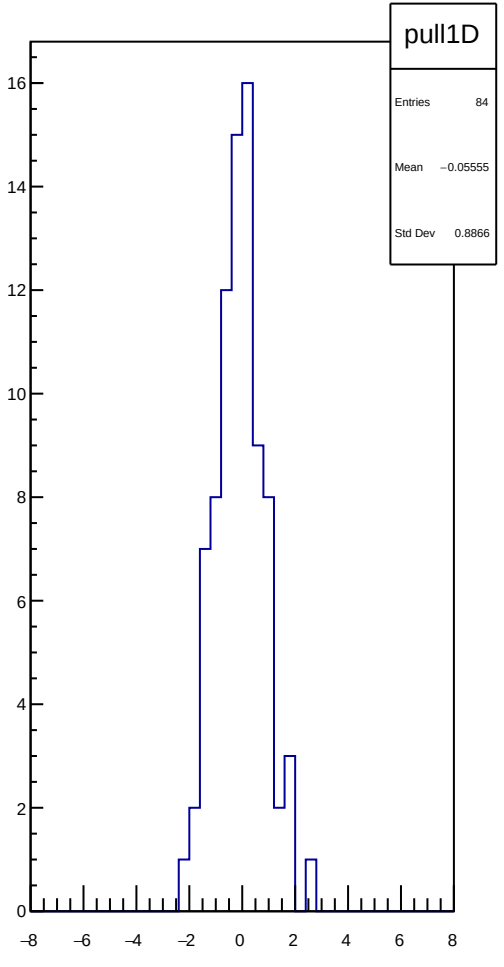

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 6418 / 83
p0 1055 ± 0.8271
1350
1300
1250
1200
1150
1100
1050
1000
950

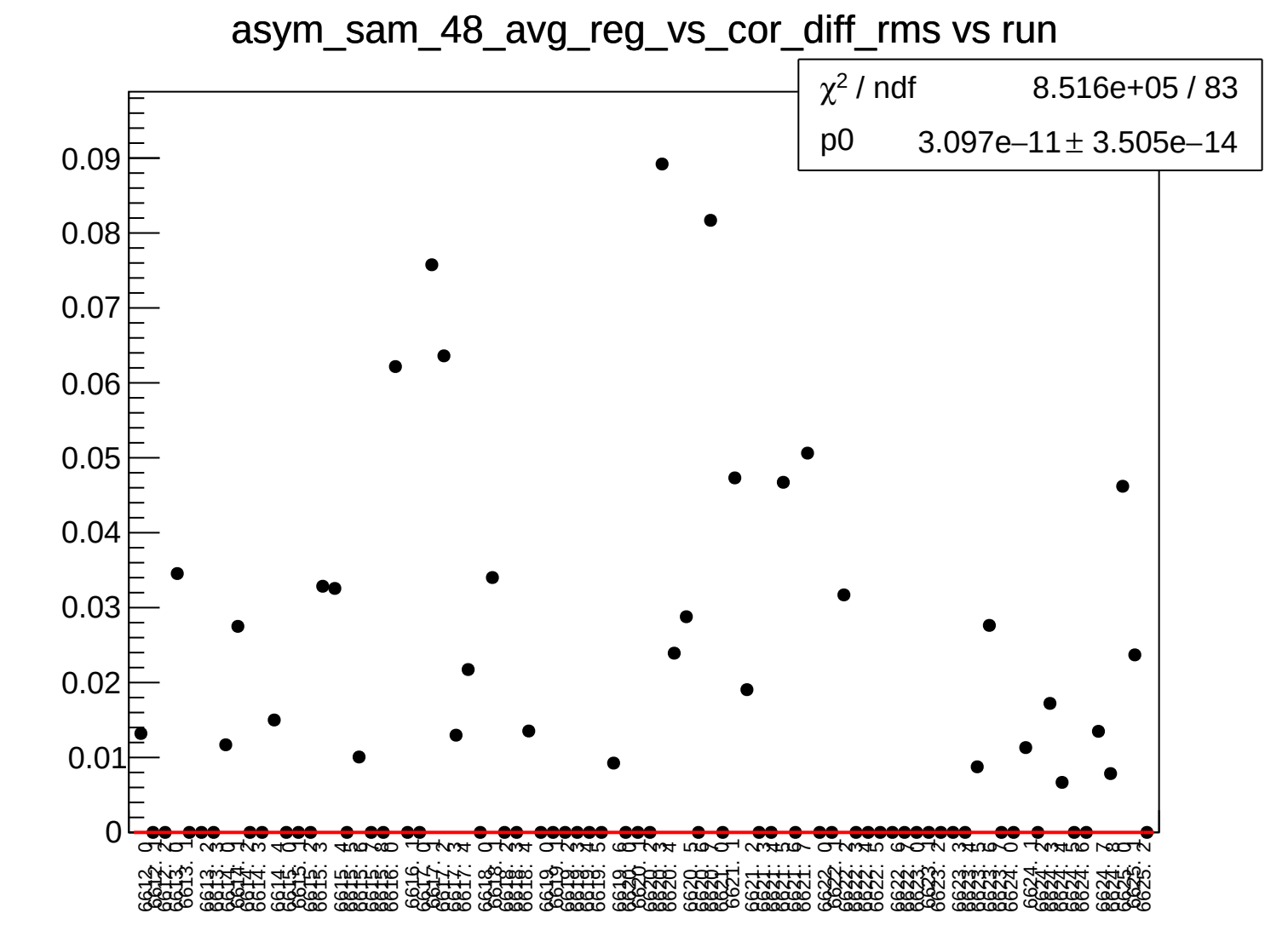

asym_sam_48_avg_mean vs run
χ² / ndf 77.29 / 83
p0 2861 ± 1167
pull
Entries 84
Mean −130
Std Dev 0

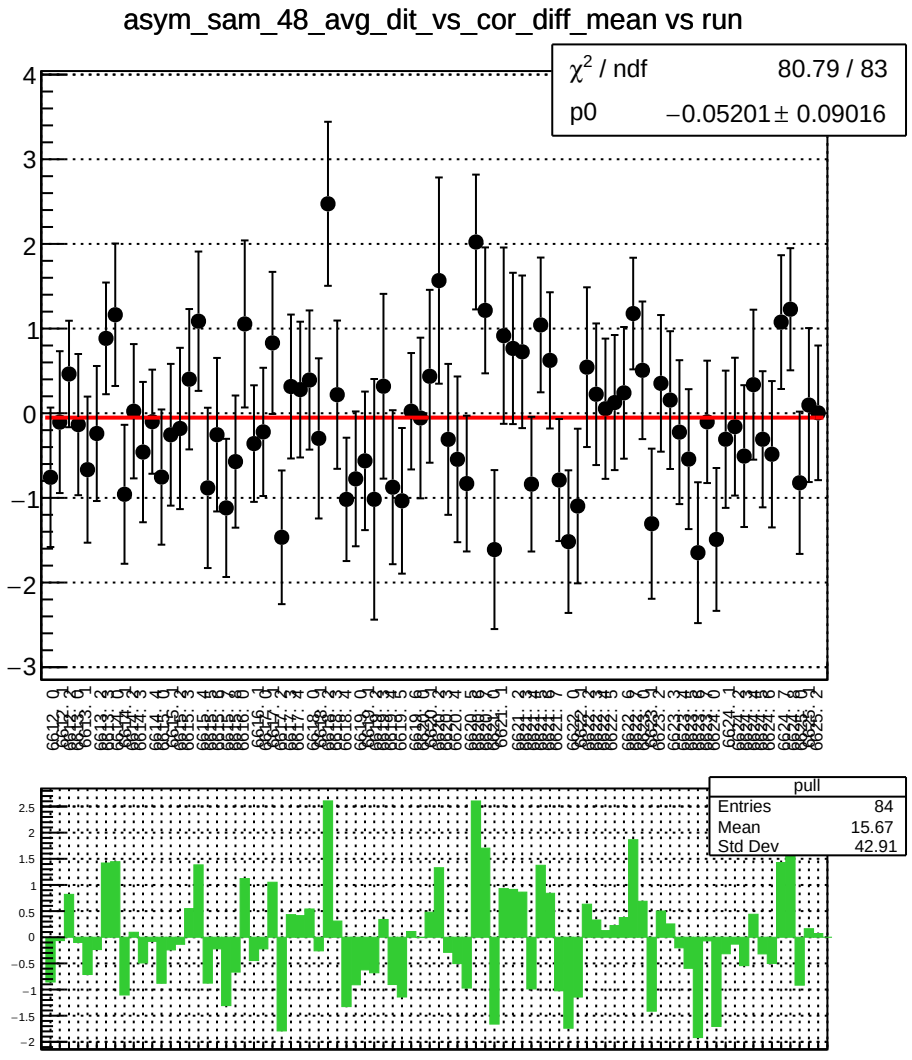

pull1D
Entries 84
Mean 0.001322
Std Dev 0.9593

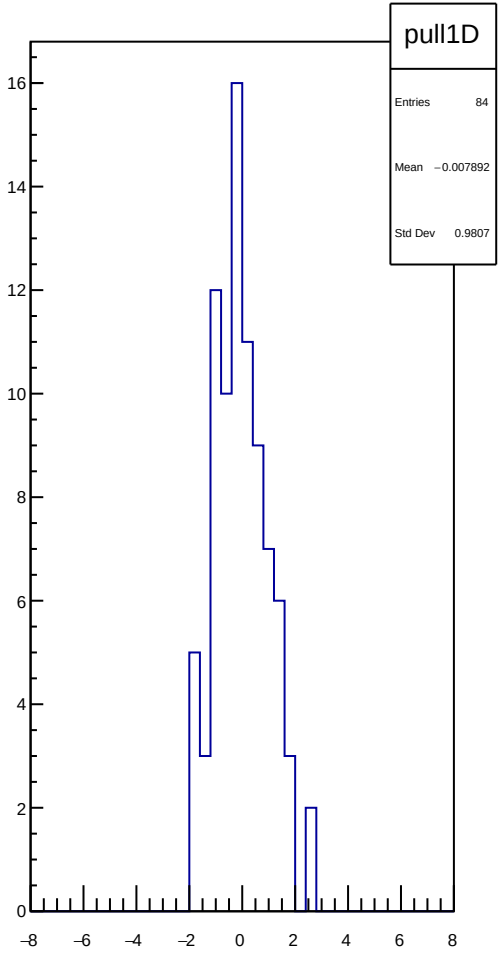

asym_sam_48_avg_rms vs run
χ² / ndf 8899 / 83
p0 1051 ± 0.8249
1350
1300
1250
1200
1150
1100
1050
1000
950
900

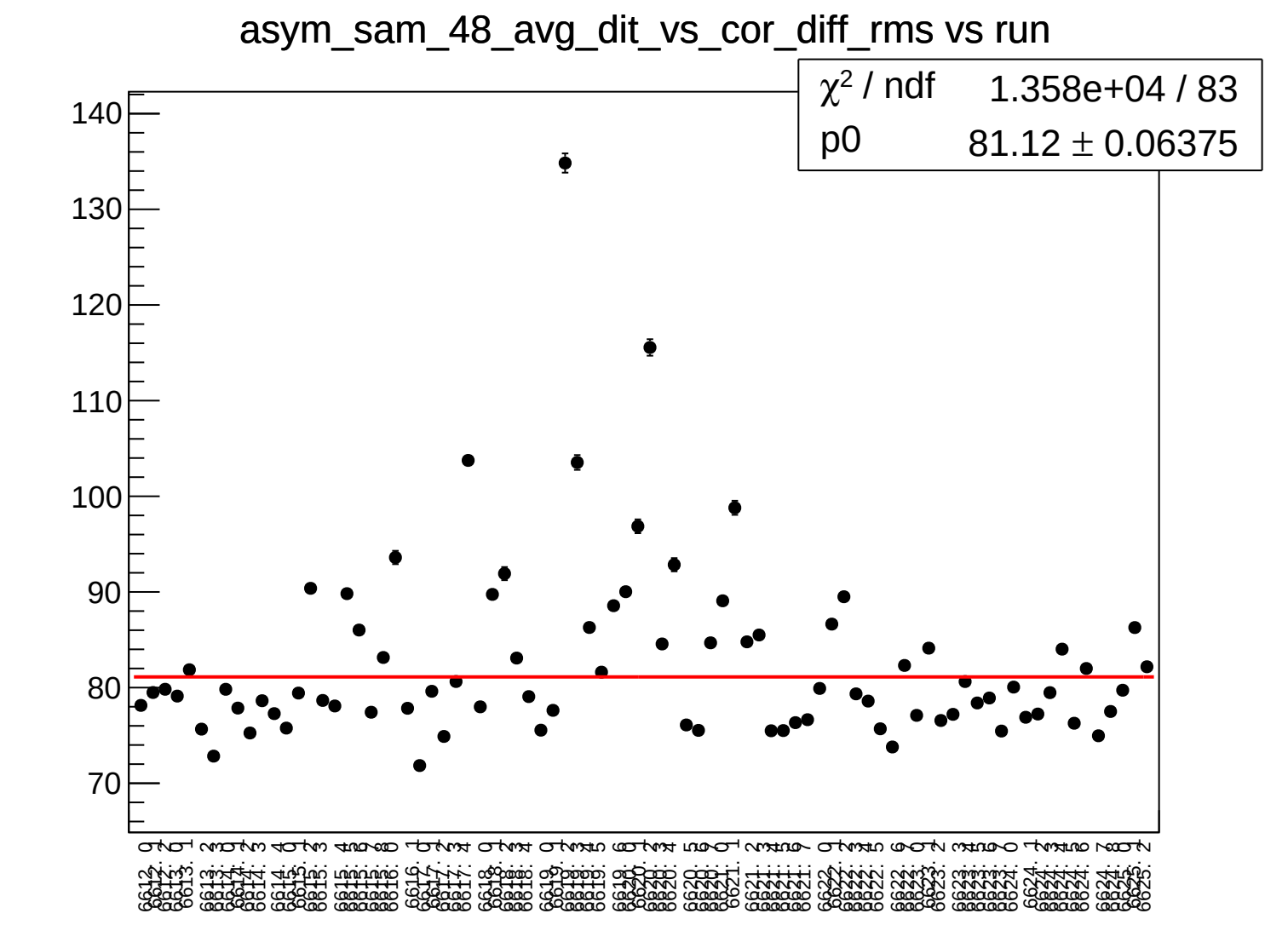

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 66.29 / 83
p0 4.884e−14 ± 4.957e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 84
Mean 55.44
Std Dev 13.69
2
1
0
−1
−2

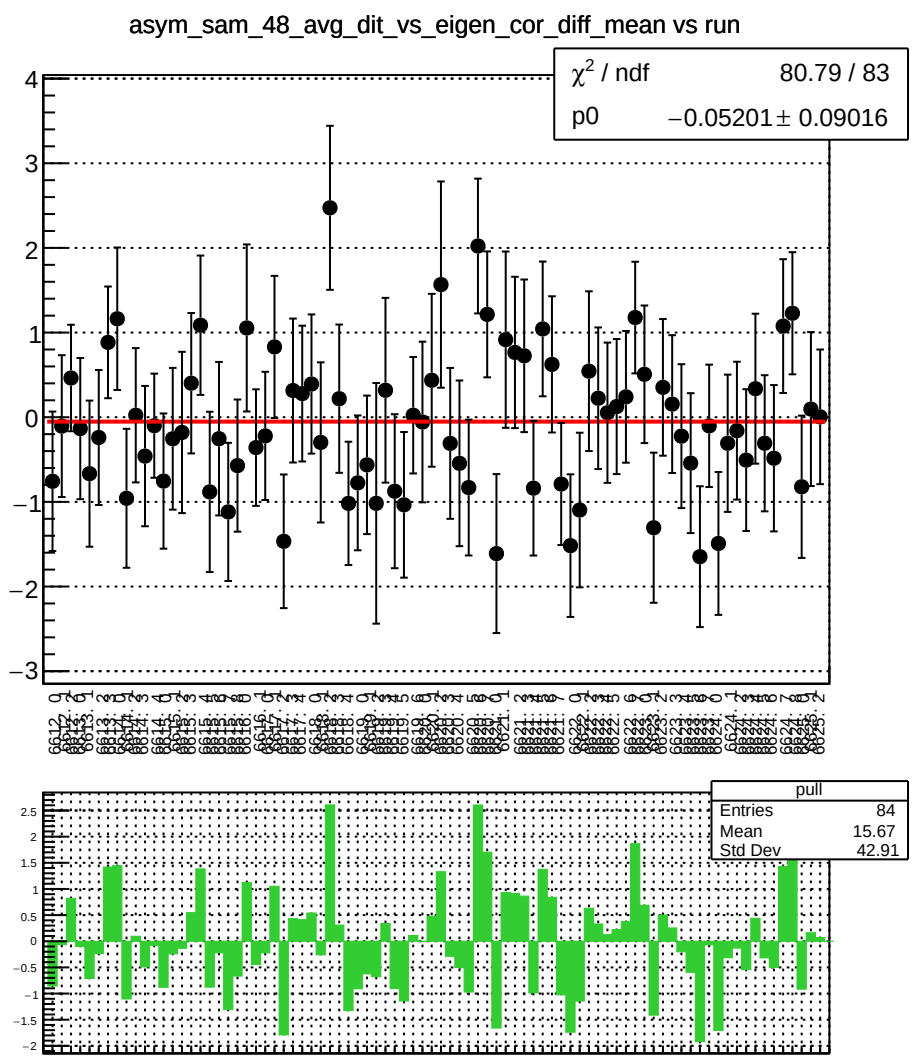

pull1D
Entries 84
Mean −0.05555
Std Dev 0.8866
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

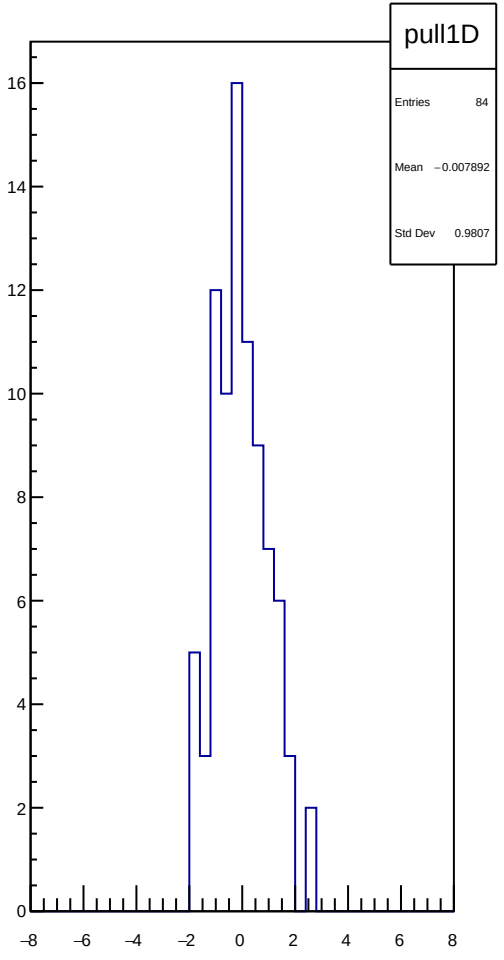

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.516e+05 / 83
p0 3.097e−11 ± 3.505e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

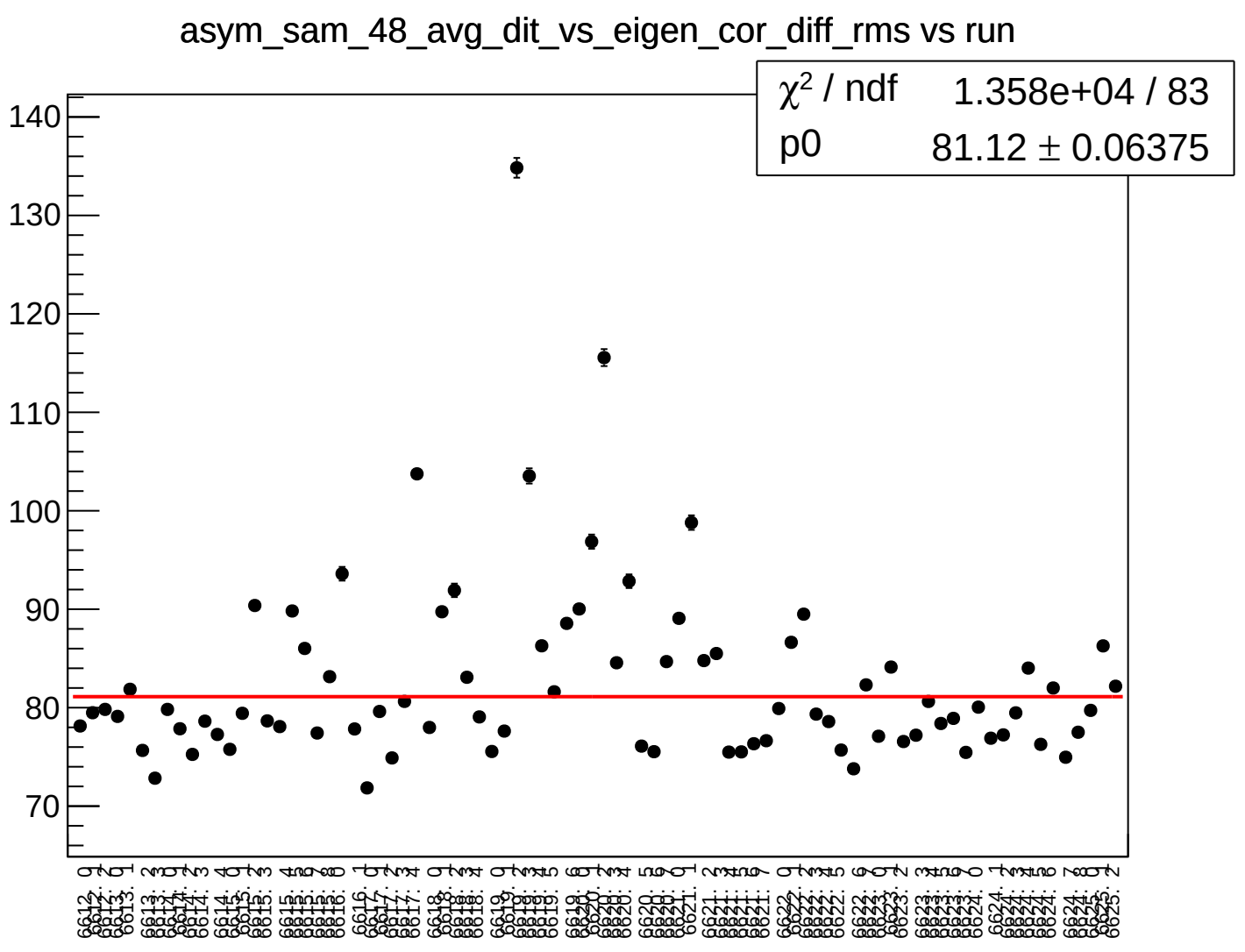

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.79 / 83
p0 −0.05201 ± 0.09016
pull
Entries 84
Mean 15.67
Std Dev 42.91

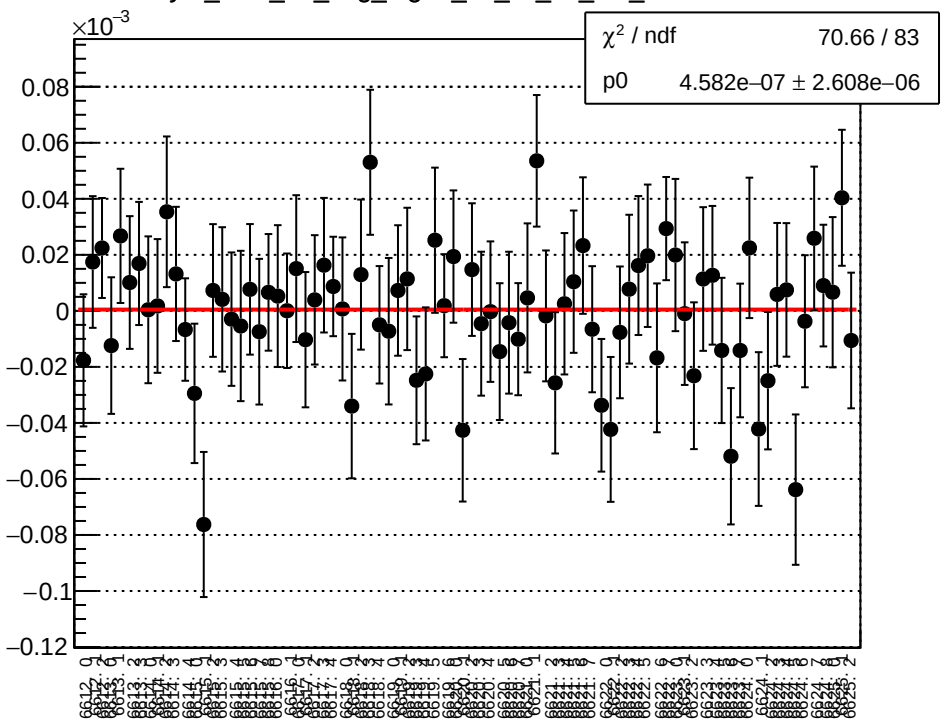

pull1D
Entries 84
Mean −0.007892
Std Dev 0.9807

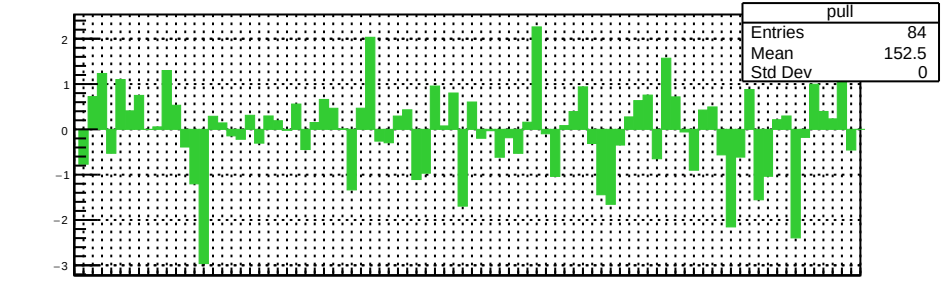

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.358e+04 / 83
p0 81.12 ± 0.06375
140
130
120
110
100
90
80
70

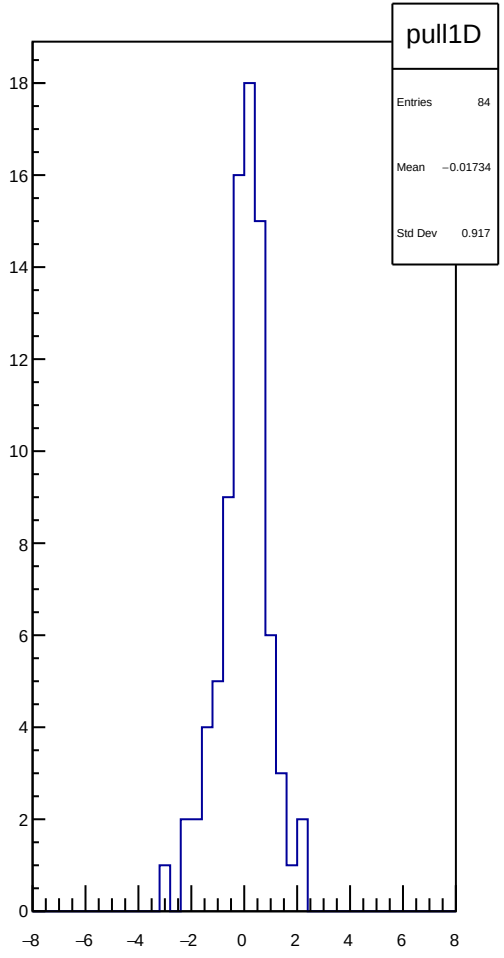

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.79 / 83
p0 −0.05201 ± 0.09016
pull
Entries 84
Mean 15.67
Std Dev 42.91

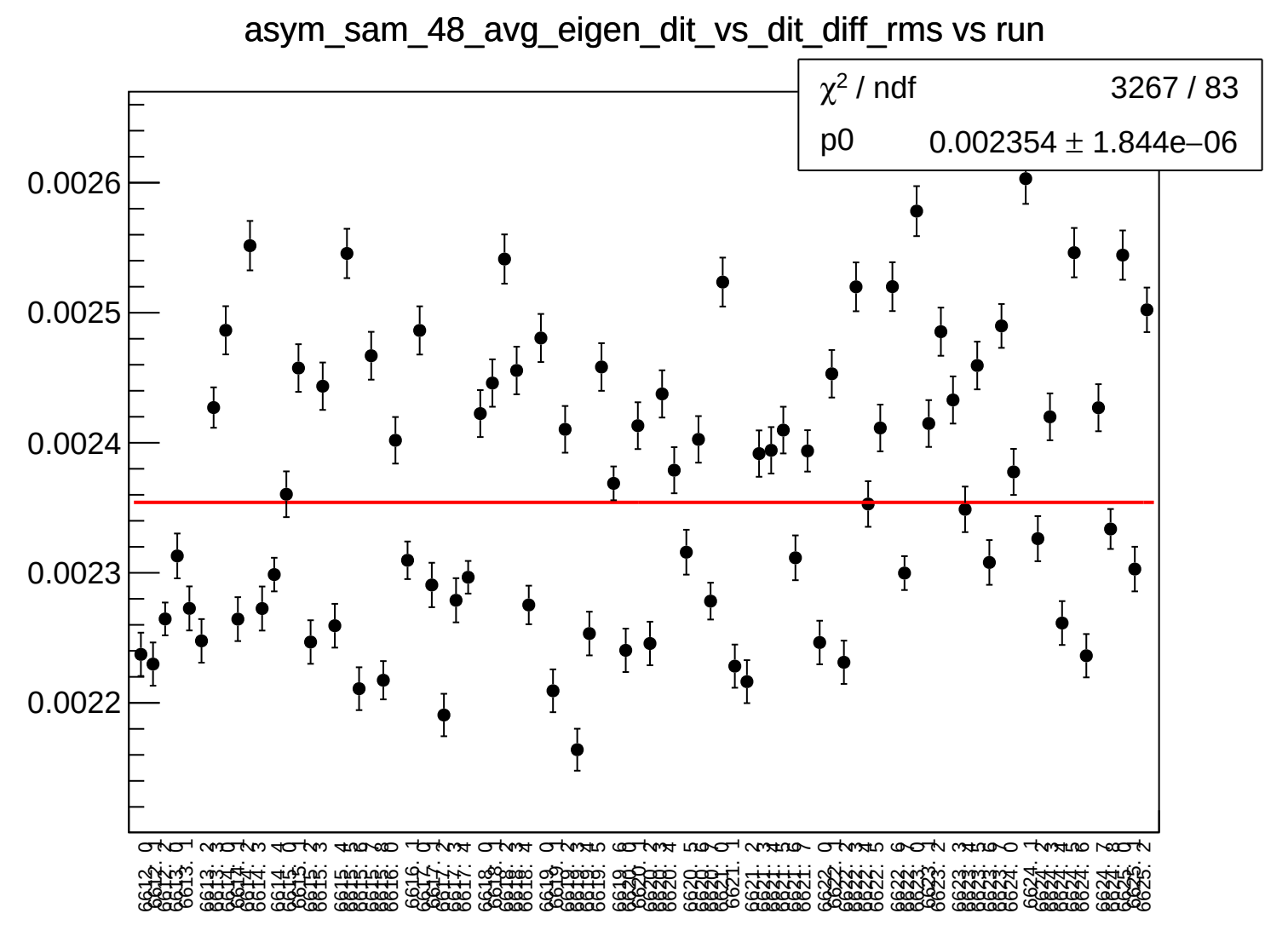

pull1D
Entries 84
Mean −0.007892
Std Dev 0.9807

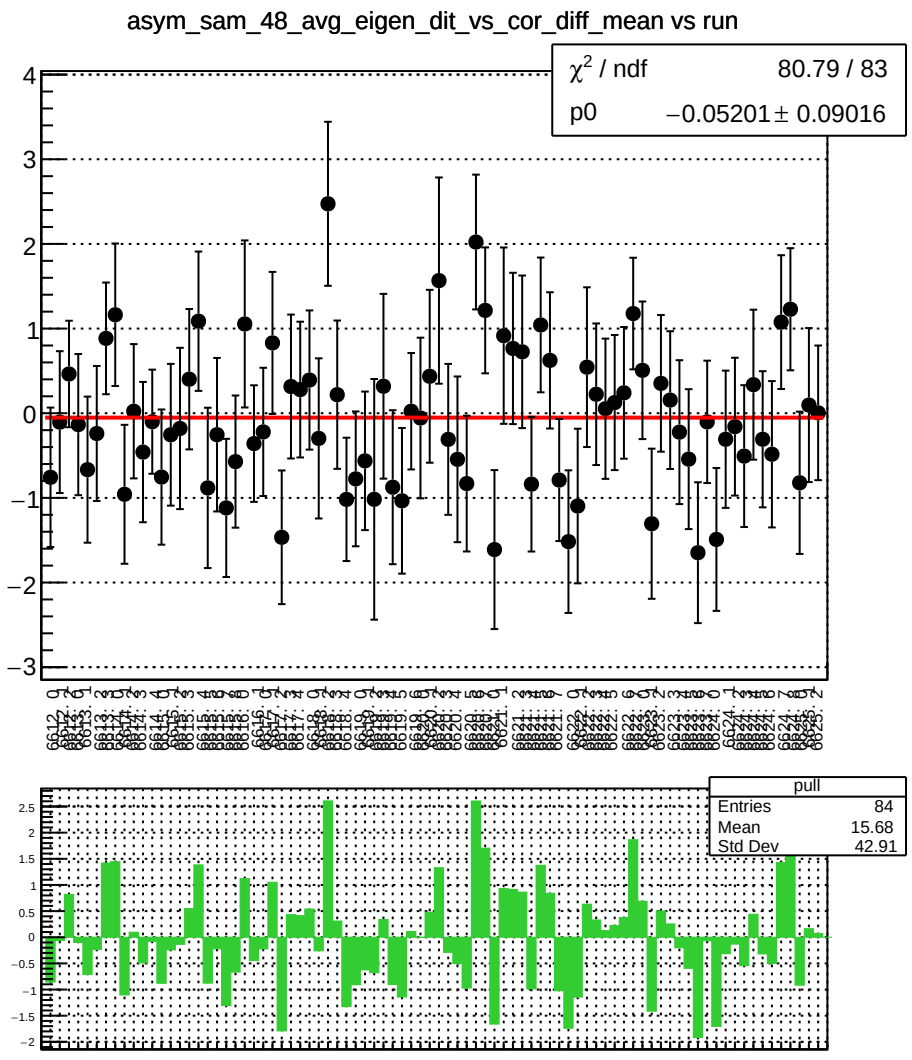

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.358e+04 / 83
p0 81.12 ± 0.06375
140
130
120
110
100
90
80
70

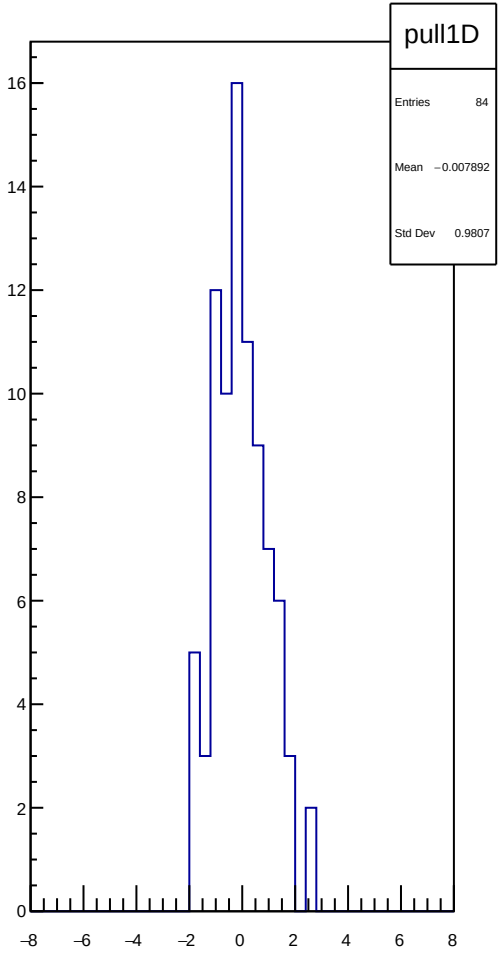

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 70.66 / 83
p0 4.582e−07 ± 2.608e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12

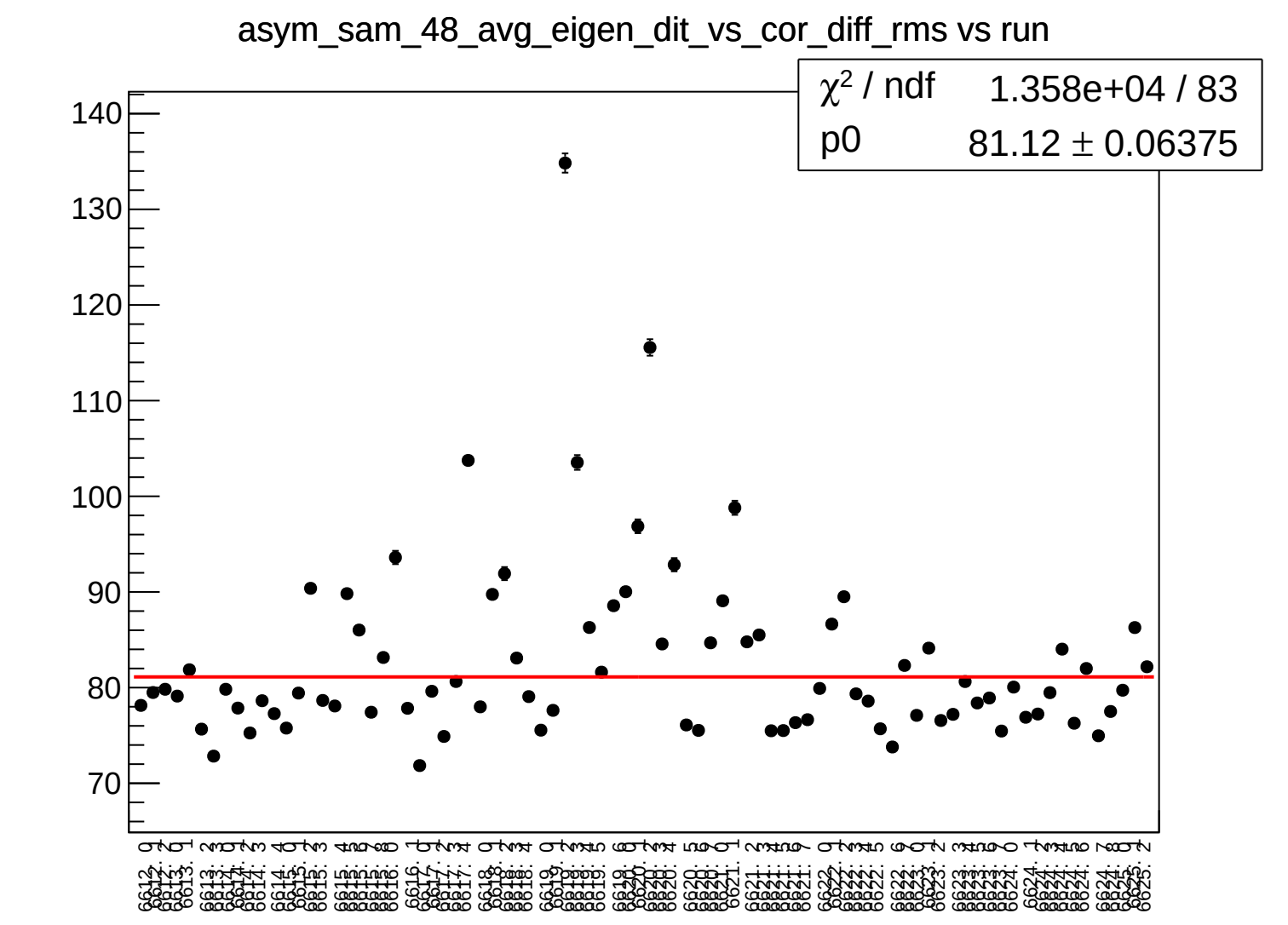

pull
Entries 84
Mean 152.5
Std Dev 0
2
1
0
−1
−2
−3

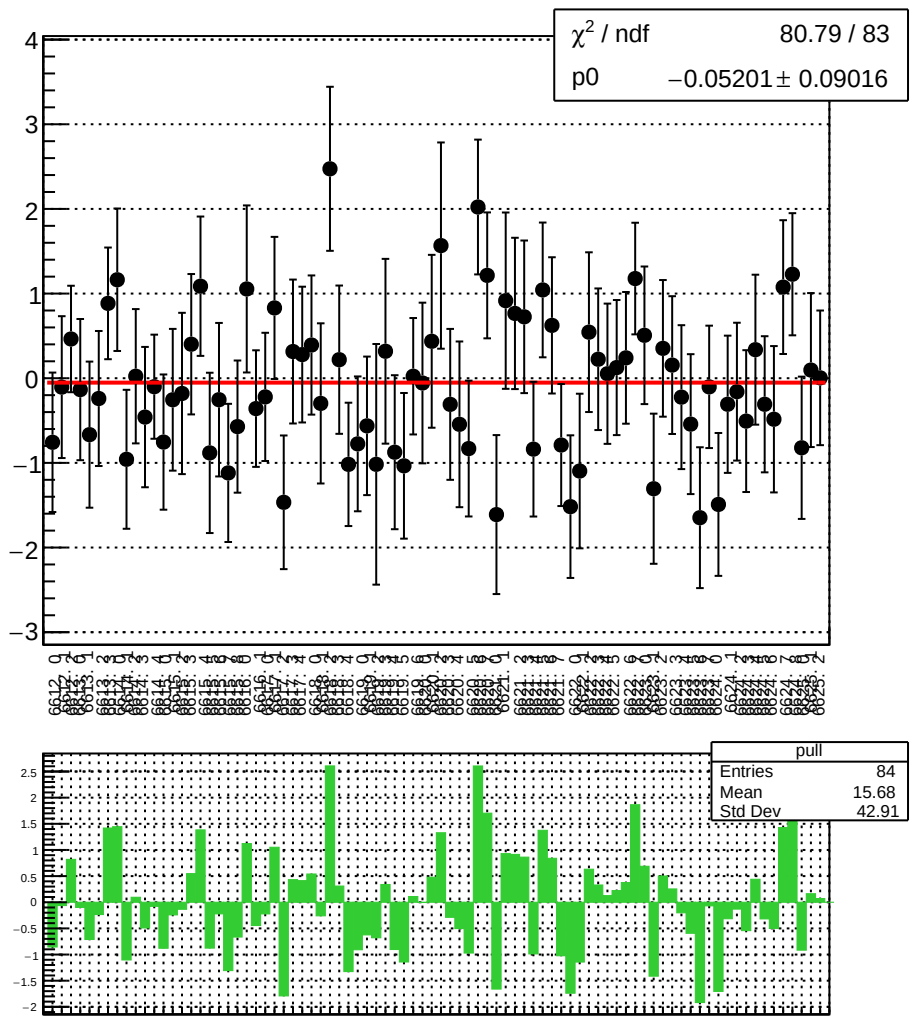

pull1D
Entries 84
Mean −0.01734
Std Dev 0.917
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

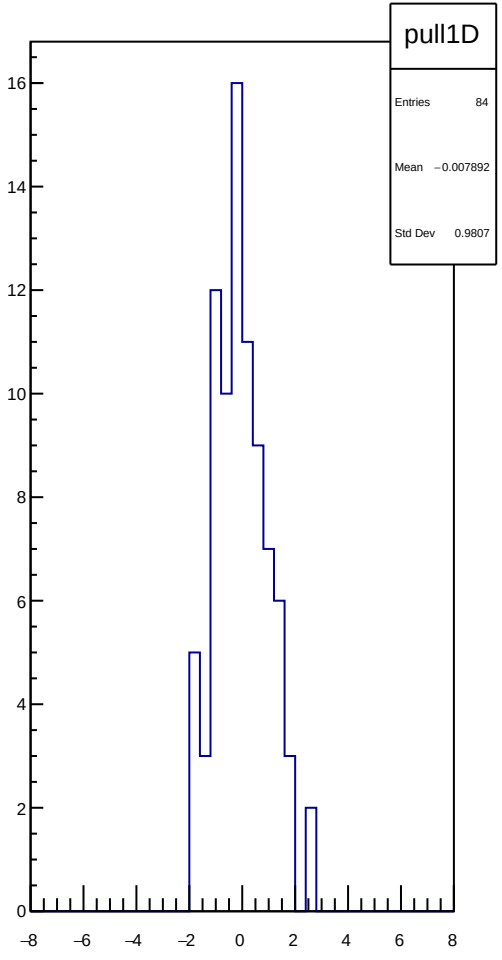

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3267 / 83
p0 0.002354 ± 1.844e−06
0.0026
0.0025
0.0024
0.0023
0.0022

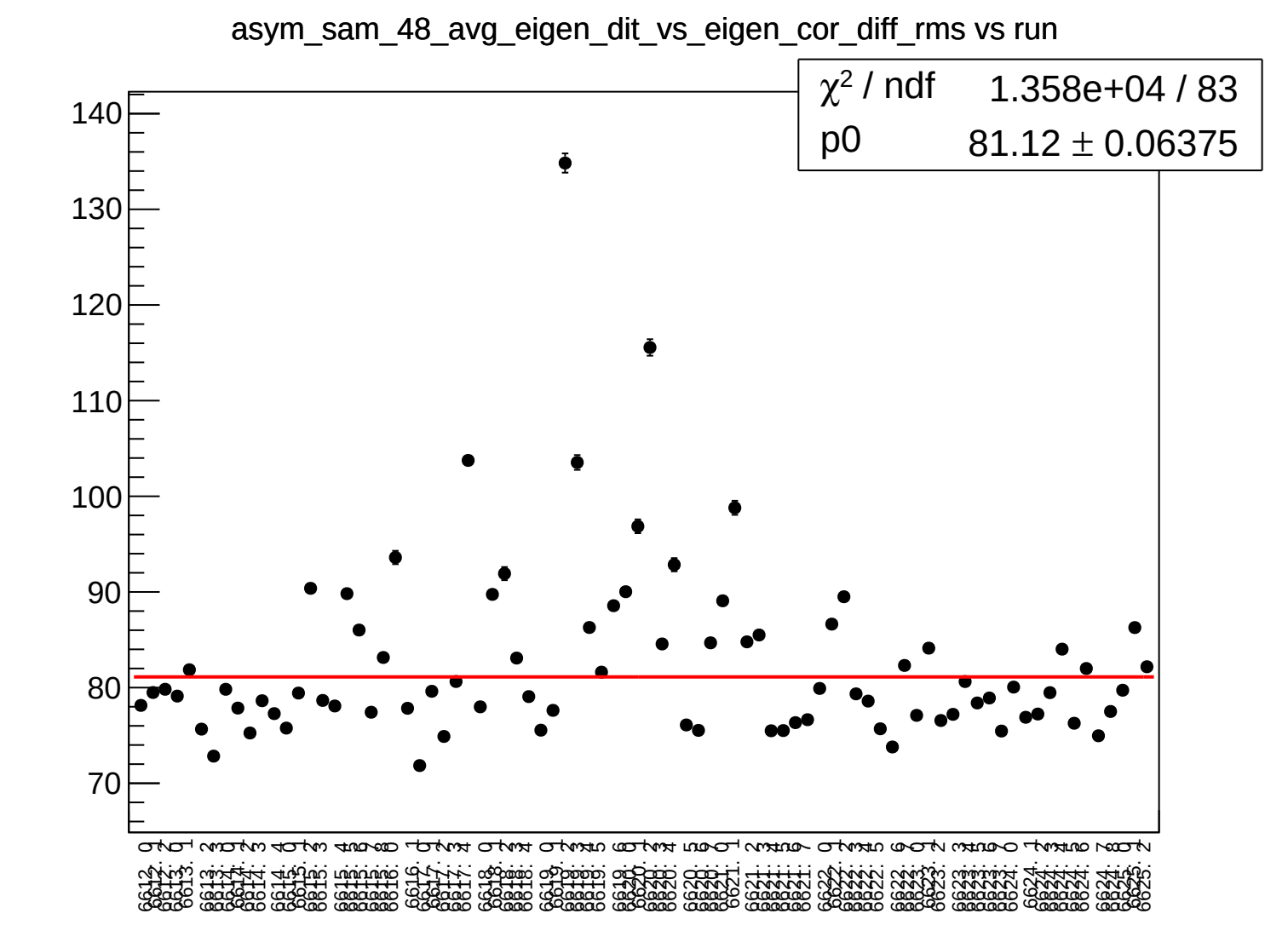

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.79 / 83
p0 −0.05201 ± 0.09016
pull
Entries 84
Mean 15.68
Std Dev 42.91

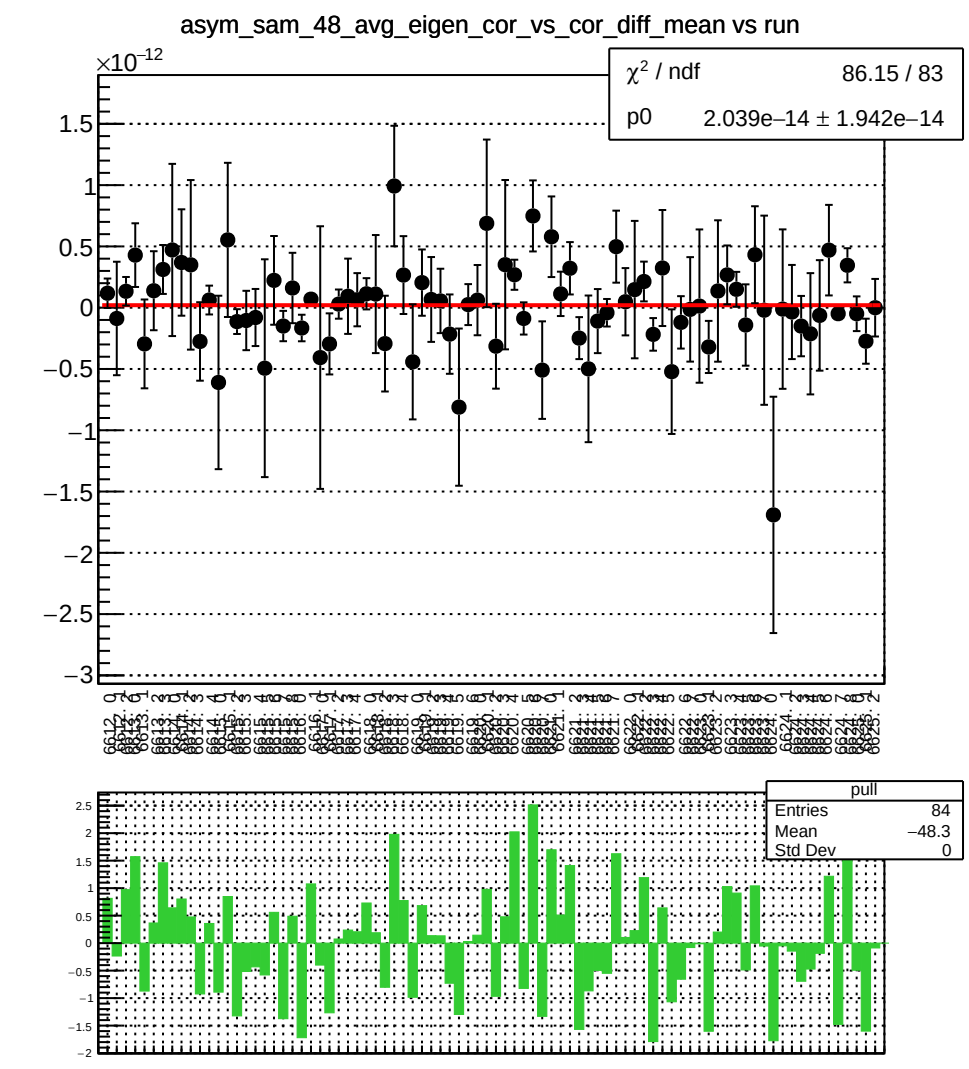

pull1D
Entries 84
Mean −0.007892
Std Dev 0.9807

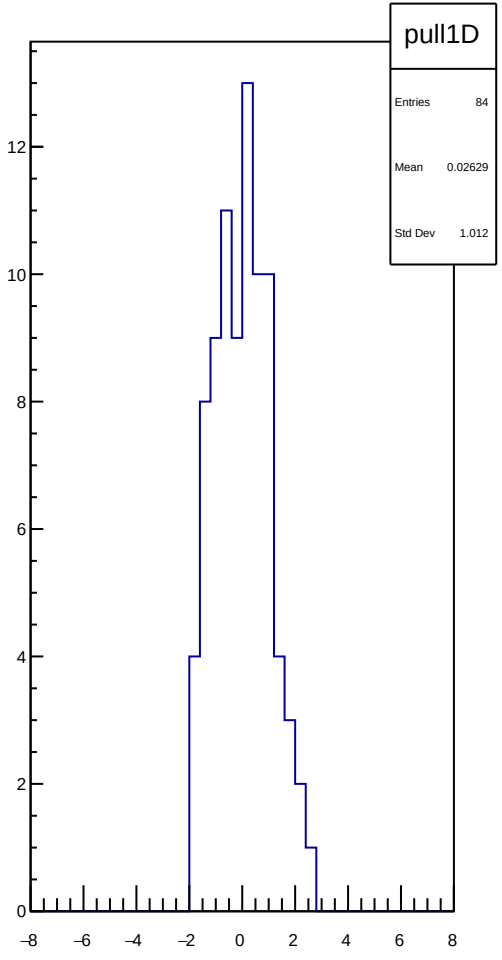

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.358e+04 / 83
p0 81.12 ± 0.06375
140
130
120
110
100
90
80
70

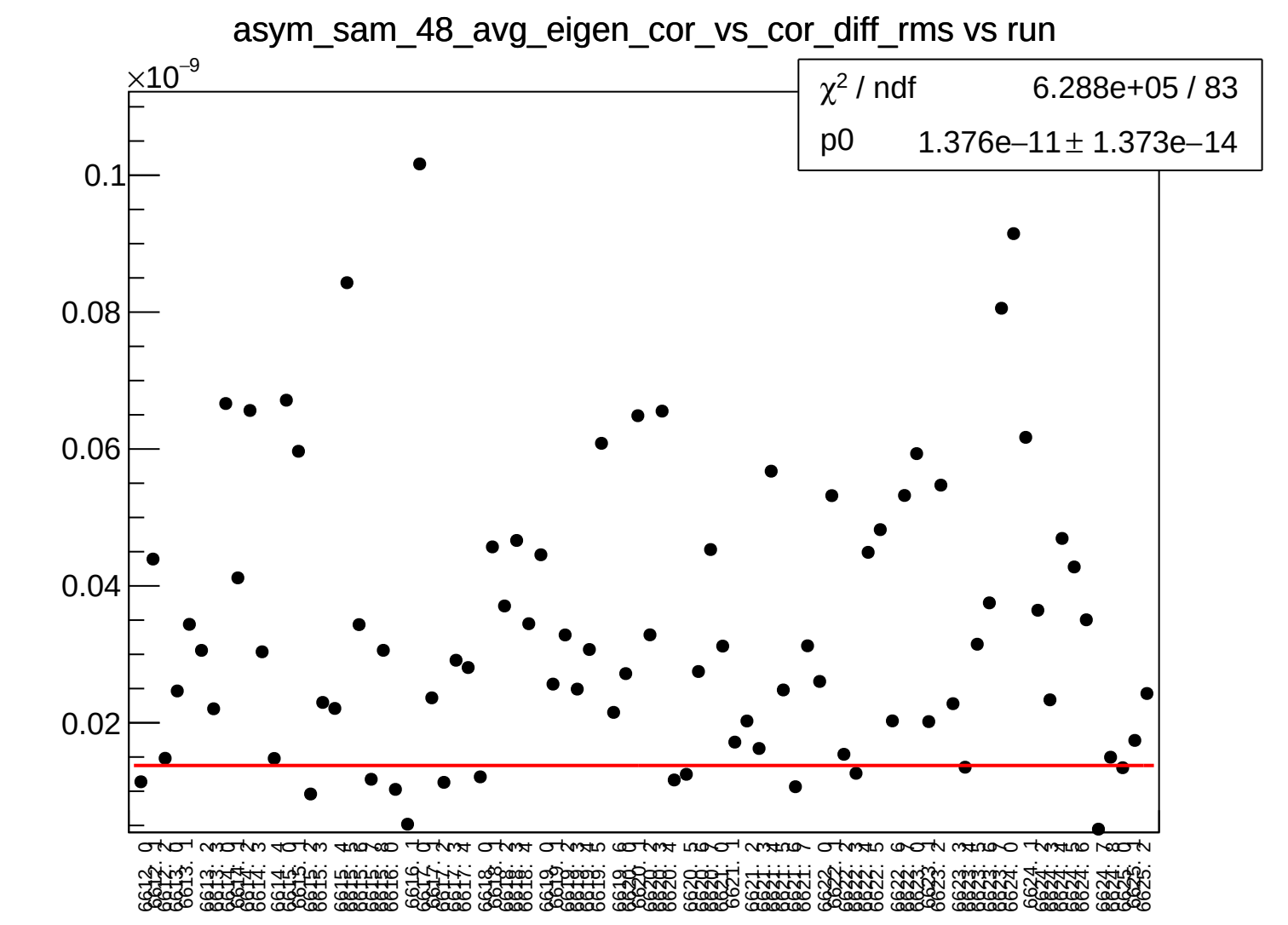

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.79 / 83
p0 −0.05201 ± 0.09016
pull
Entries 84
Mean 15.68
Std Dev 42.91

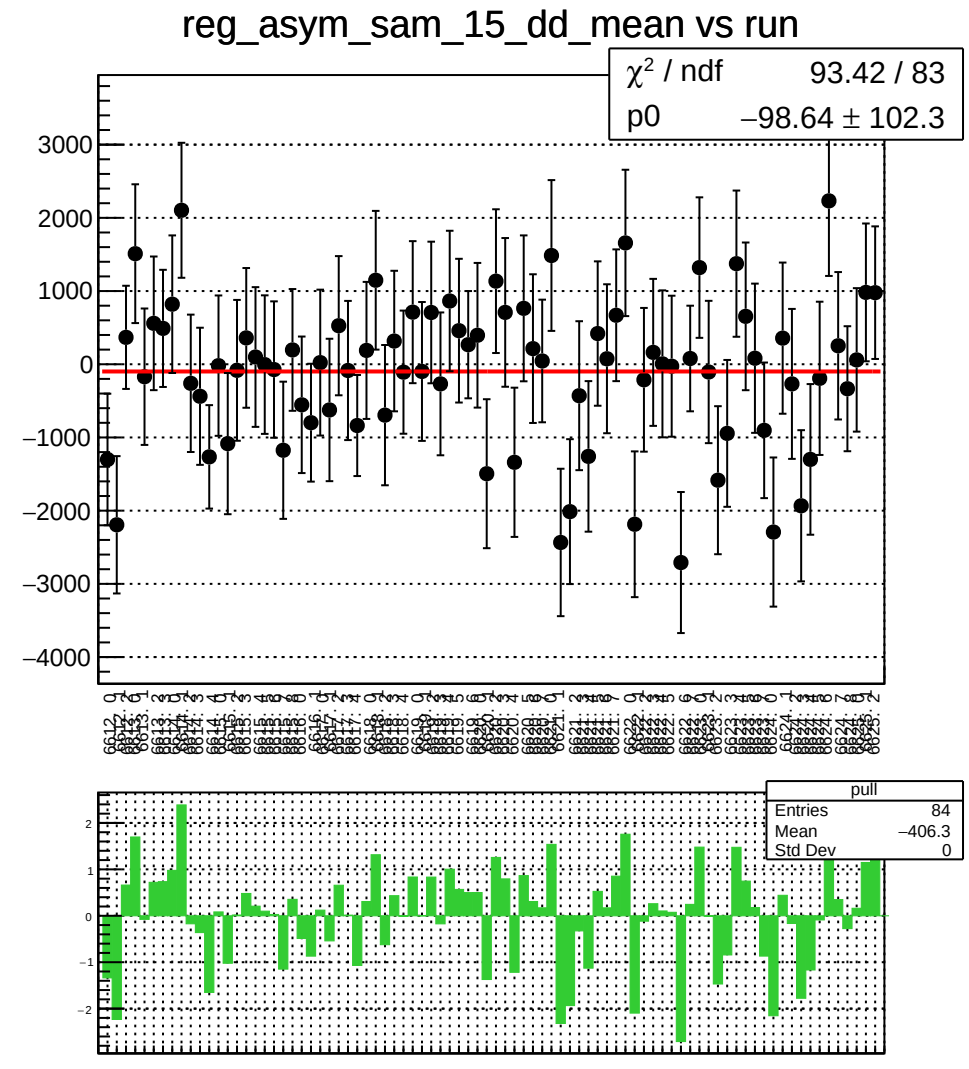

pull1D
Entries 84
Mean −0.007892
Std Dev 0.9807

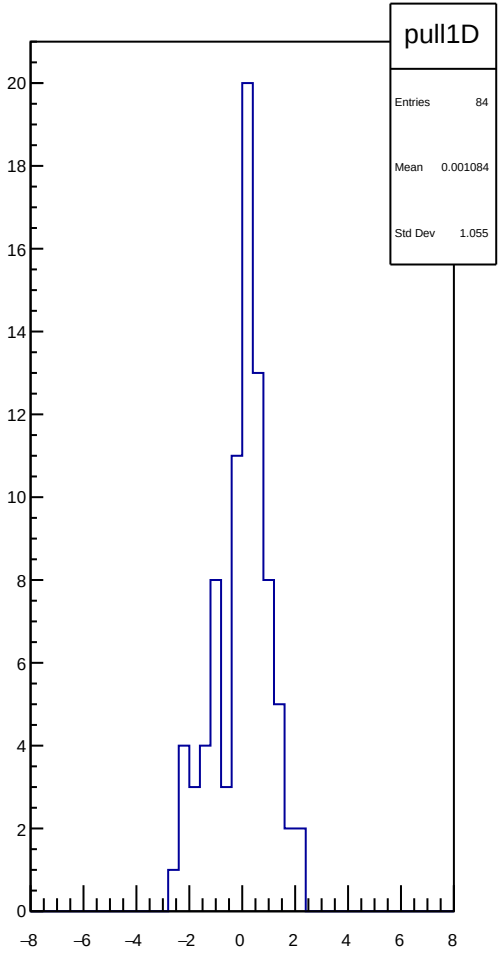

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.358e+04 / 83
p0 81.12 ± 0.06375
140
130
120
110
100
90
80
70

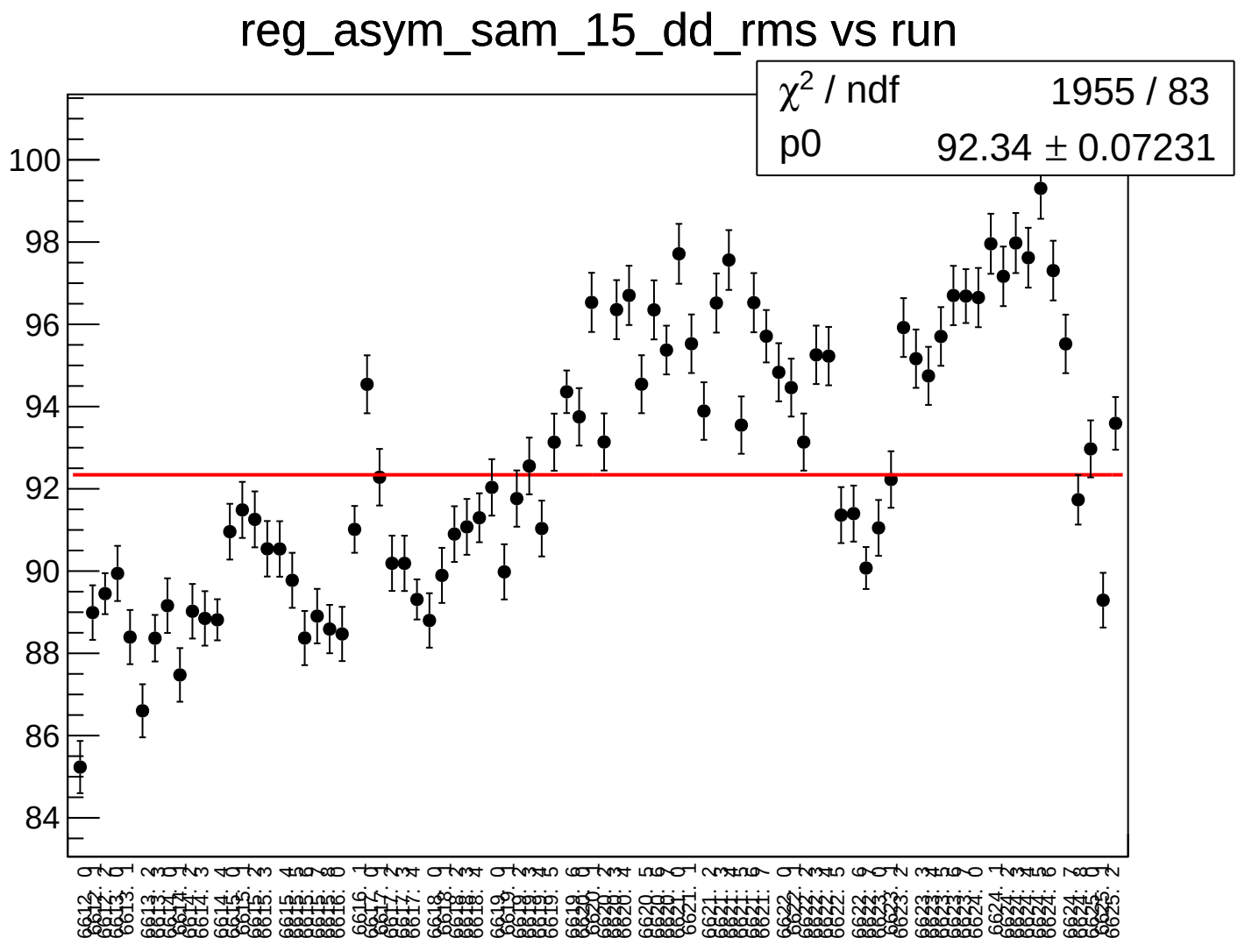

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.15 / 83
p0 2.039e−14 ± 1.942e−14
pull
Entries 84
Mean −48.3
Std Dev 0

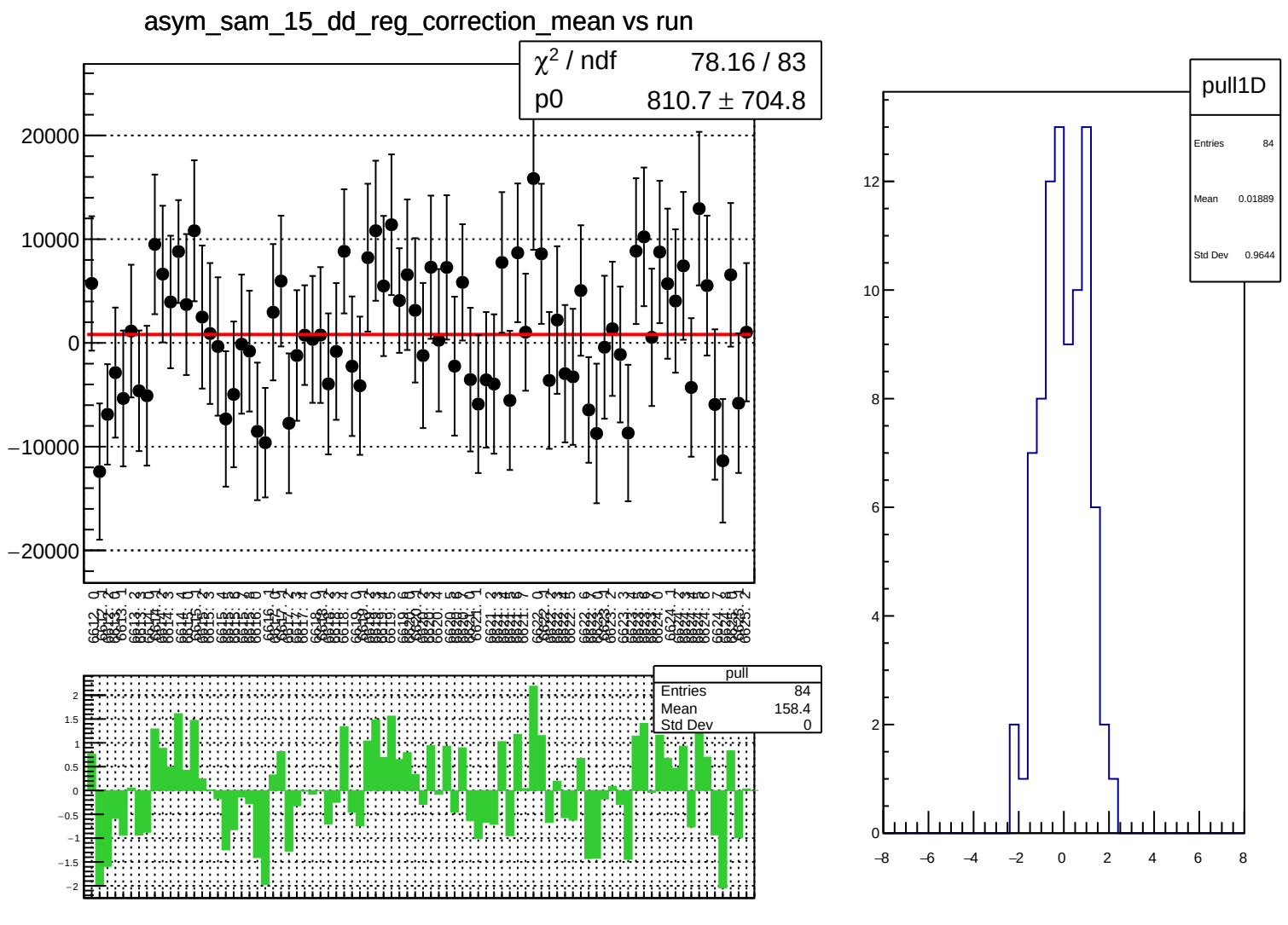

pull1D
Entries 84
Mean 0.02629
Std Dev 1.012

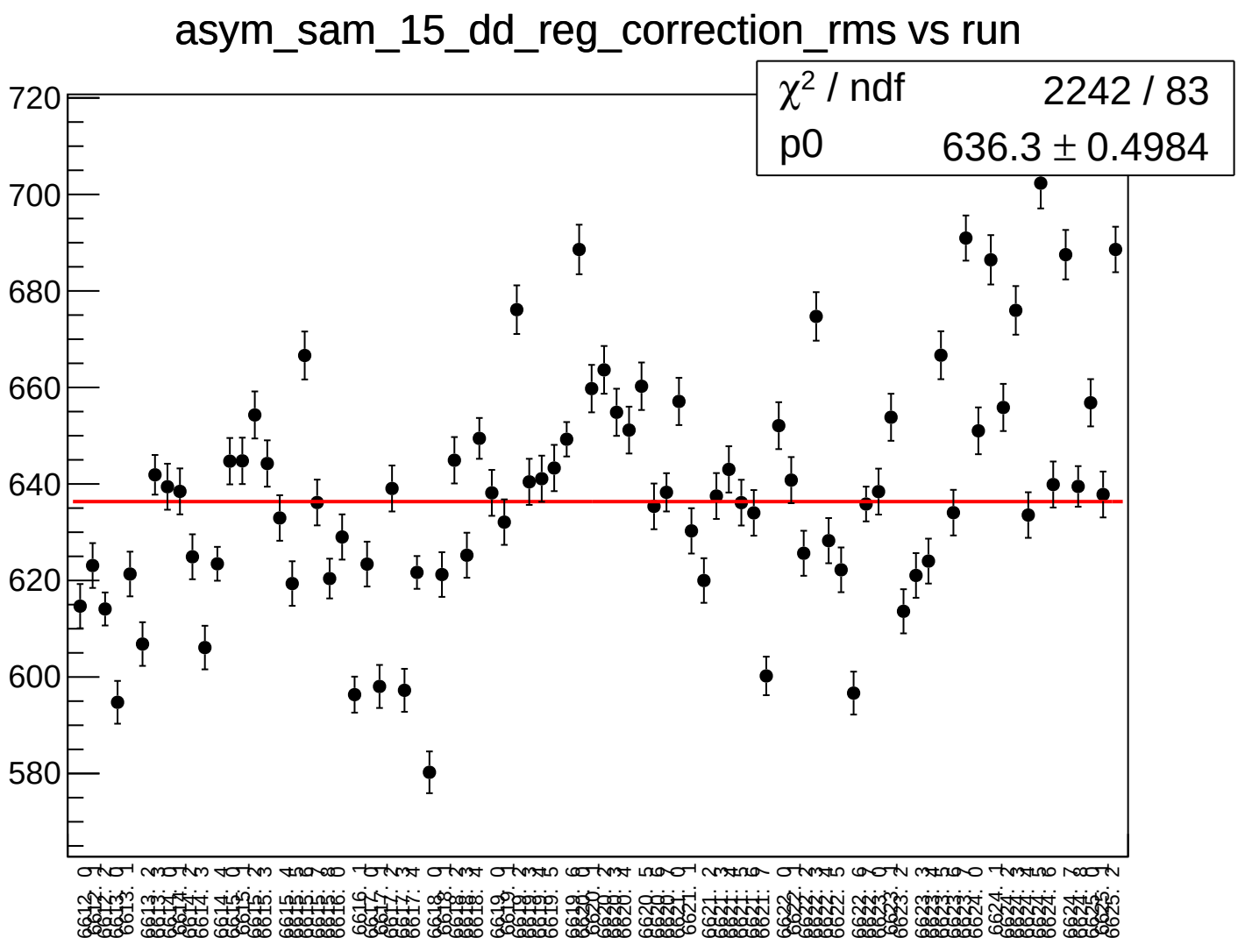

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.288e+05 / 83
p0 1.376e−11 ± 1.373e−14
0.1
0.08
0.06
0.04
0.02

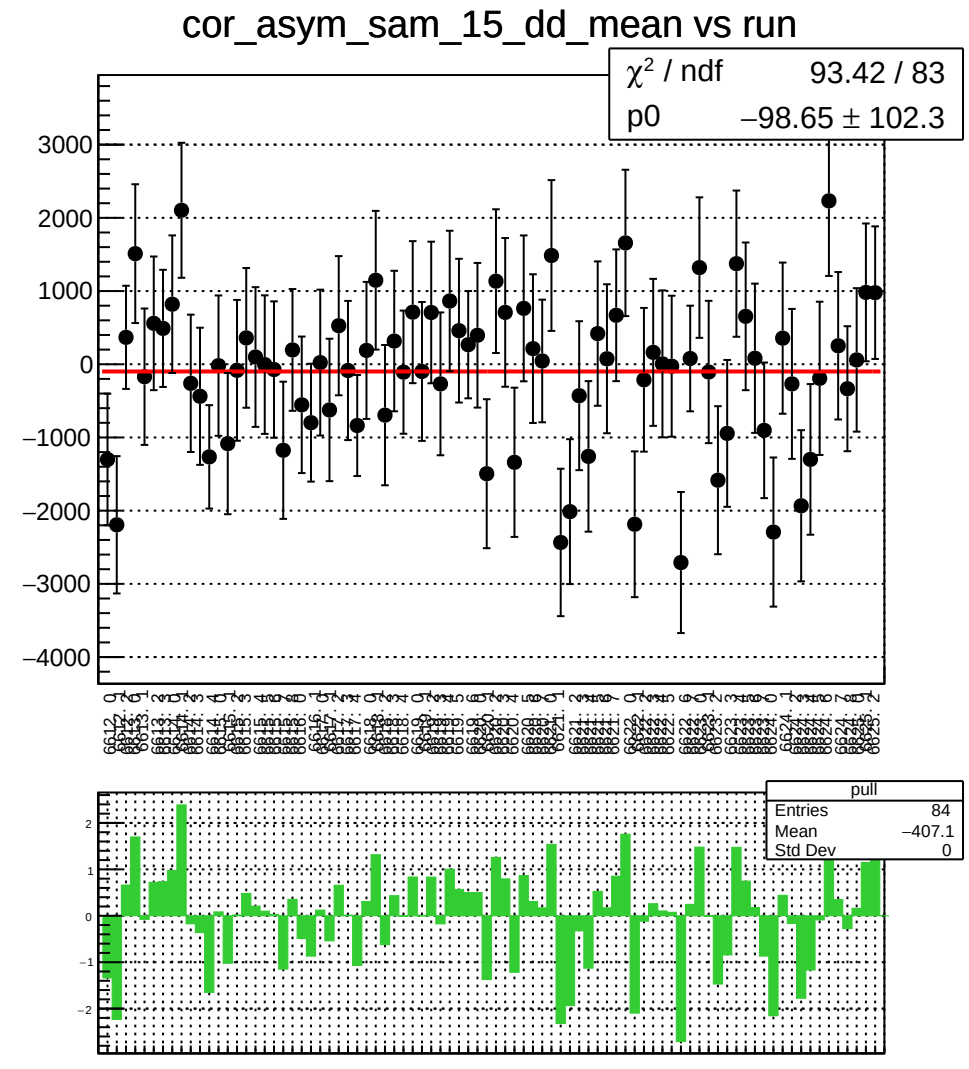

reg_asym_sam_15_dd_mean vs run
χ² / ndf 93.42 / 83
p0 −98.64 ± 102.3
pull
Entries 84
Mean −406.3
Std Dev 0

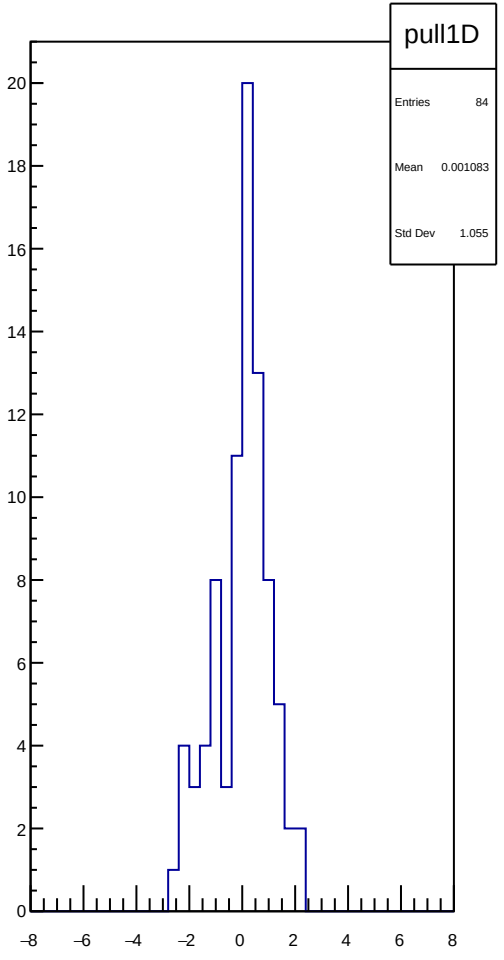

pull1D
Entries 84
Mean 0.001084
Std Dev 1.055

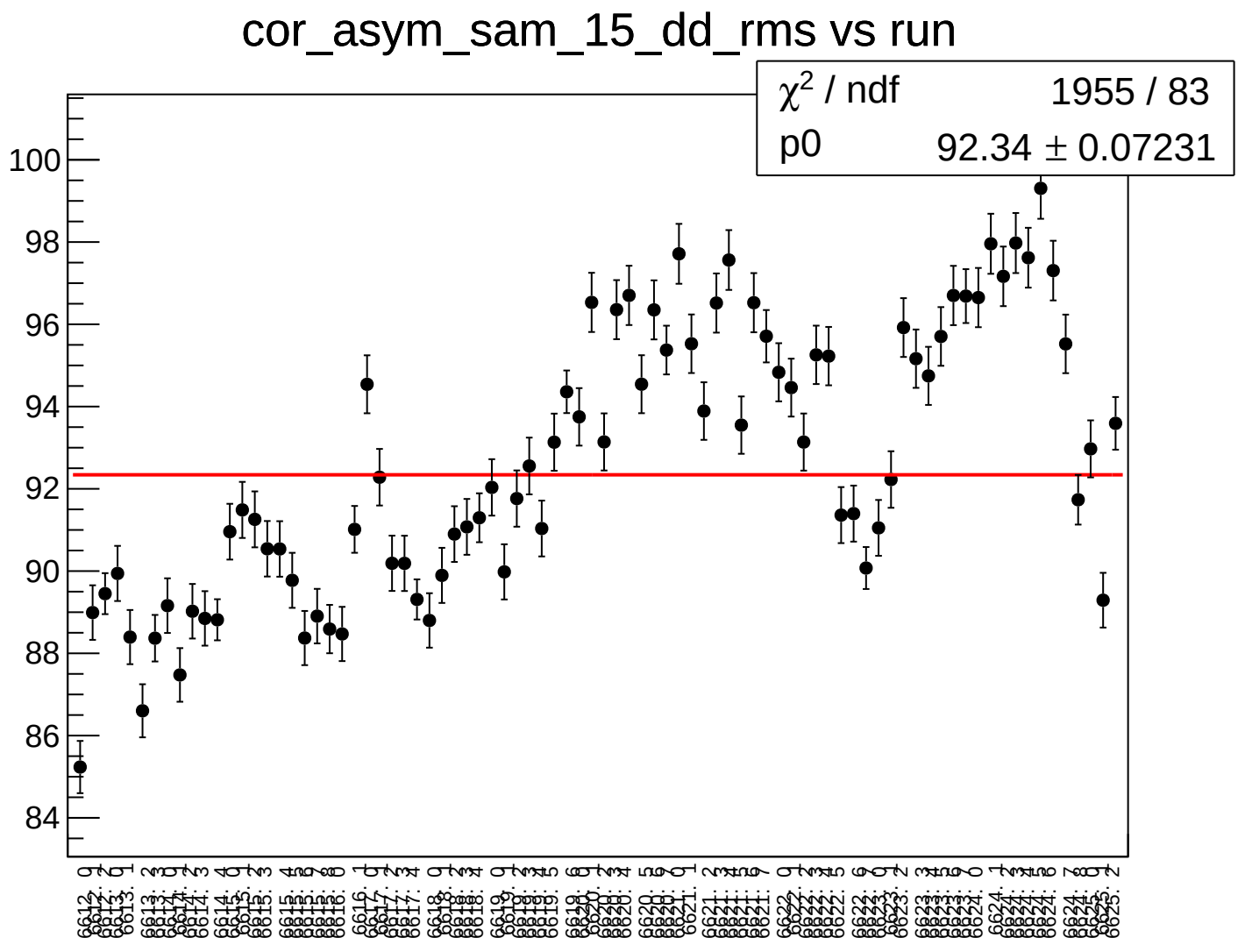

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 1955 / 83
p0 92.34 ± 0.07231
100
98
96
94
92
90
88
86
84

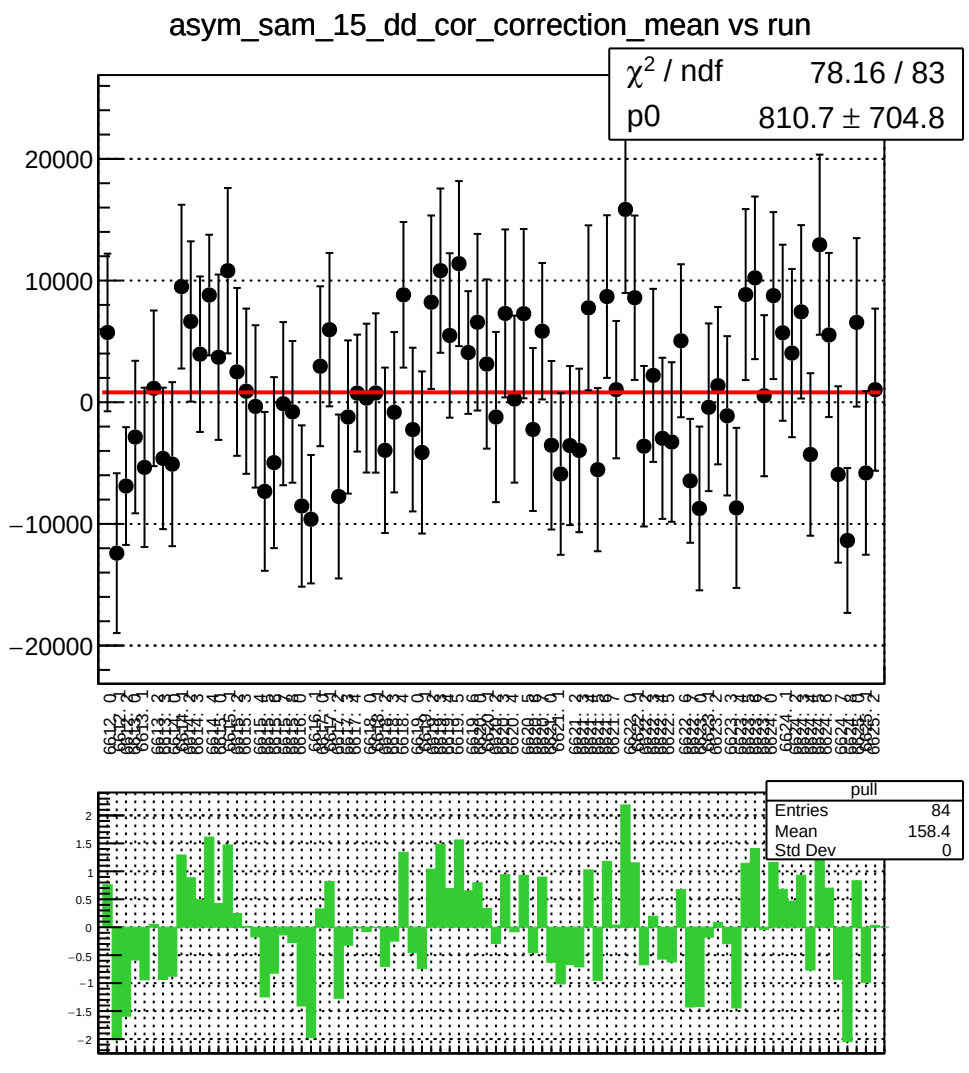

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 78.16 / 83
p0 810.7 ± 704.8
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 158.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.01889
Std Dev 0.9644
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

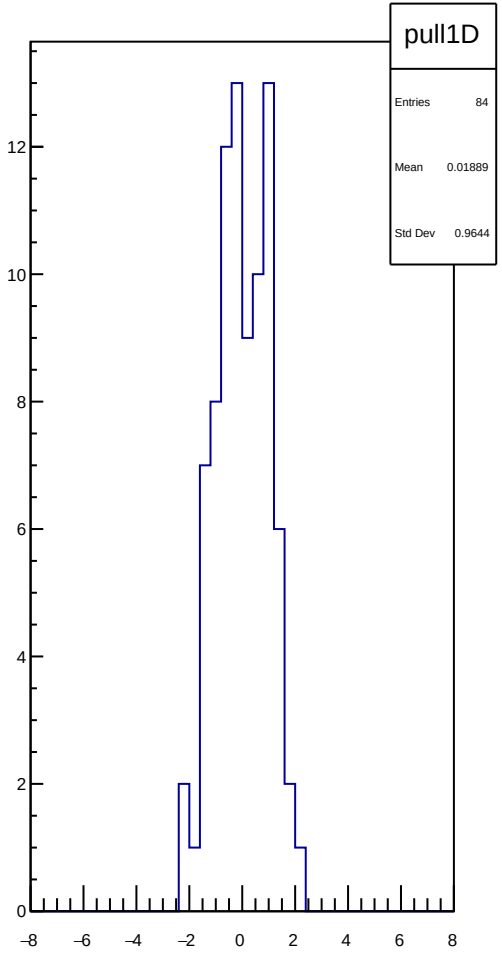

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 2242 / 83
p0 636.3 ± 0.4984
720
700
680
660
640
620
600
580

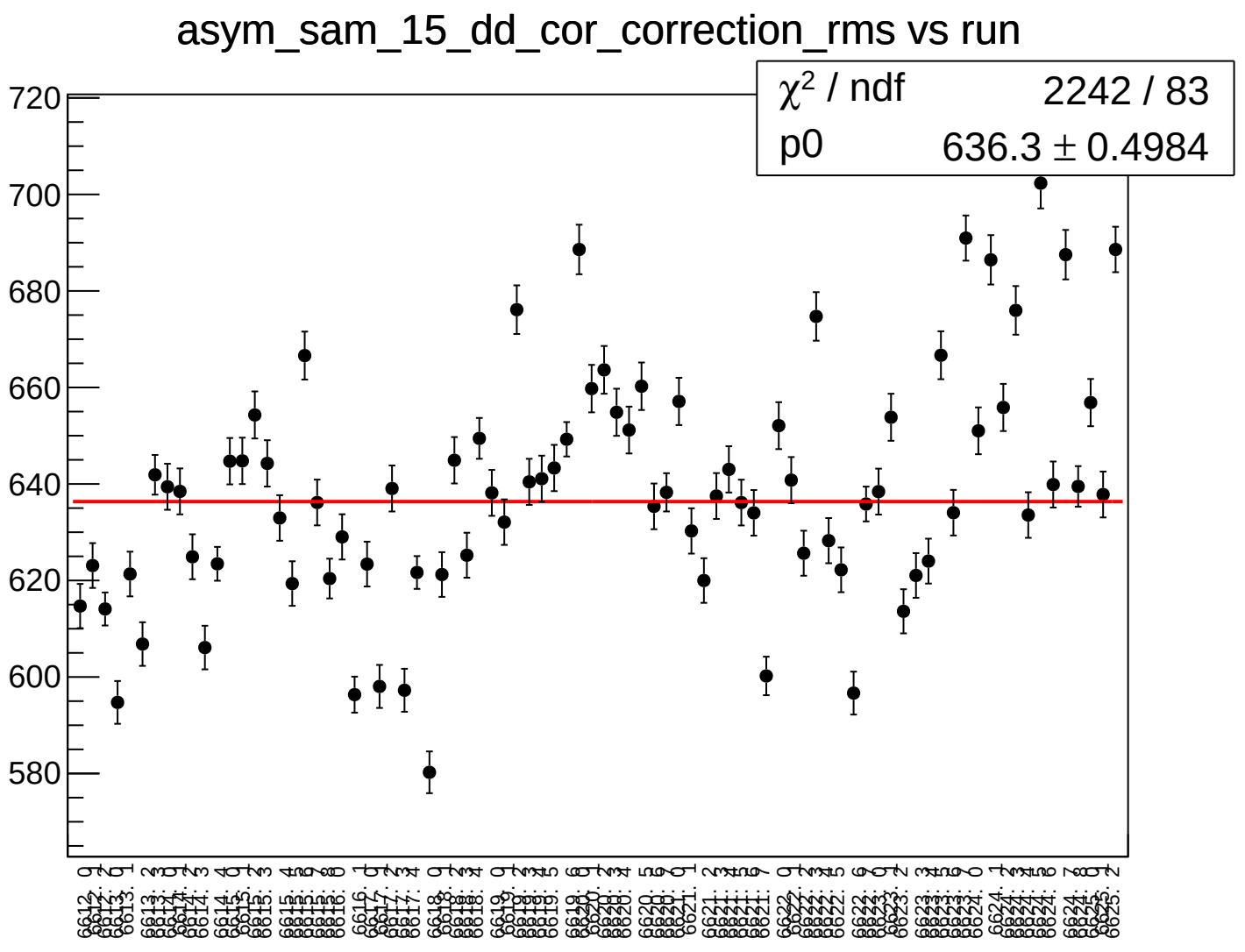

cor_asym_sam_15_dd_mean vs run
χ² / ndf 93.42 / 83
p0 −98.65 ± 102.3
pull
Entries 84
Mean −407.1
Std Dev 0

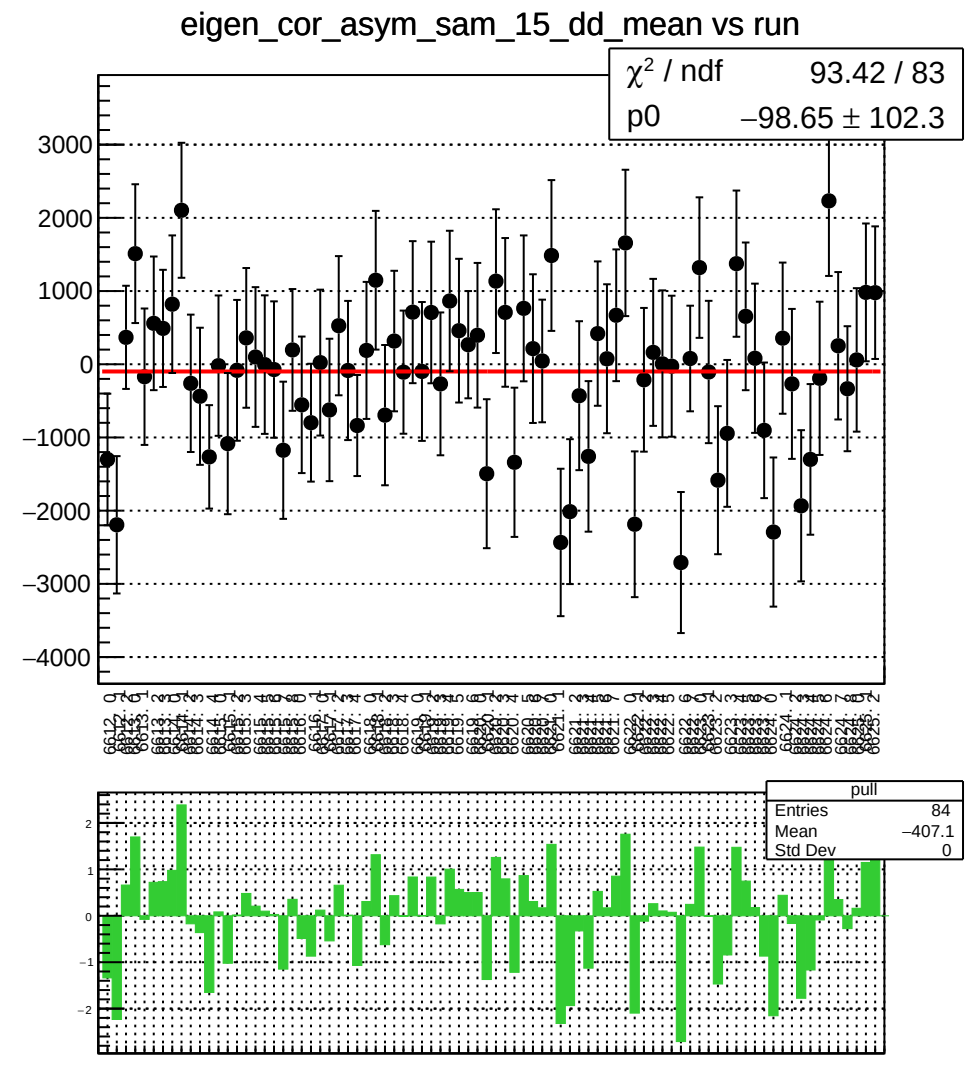

pull1D
Entries 84
Mean 0.001083
Std Dev 1.055

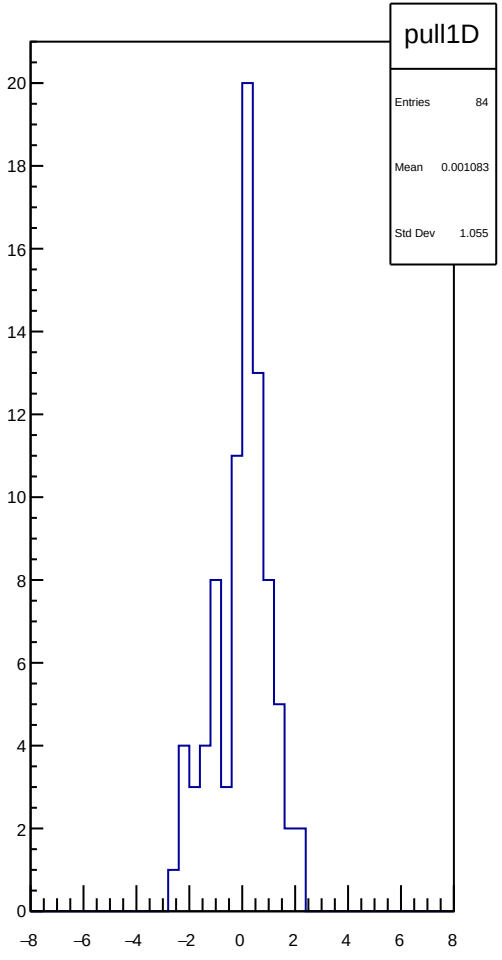

cor_asym_sam_15_dd_rms vs run
χ² / ndf 1955 / 83
p0 92.34 ± 0.07231
100
98
96
94
92
90
88
86
84

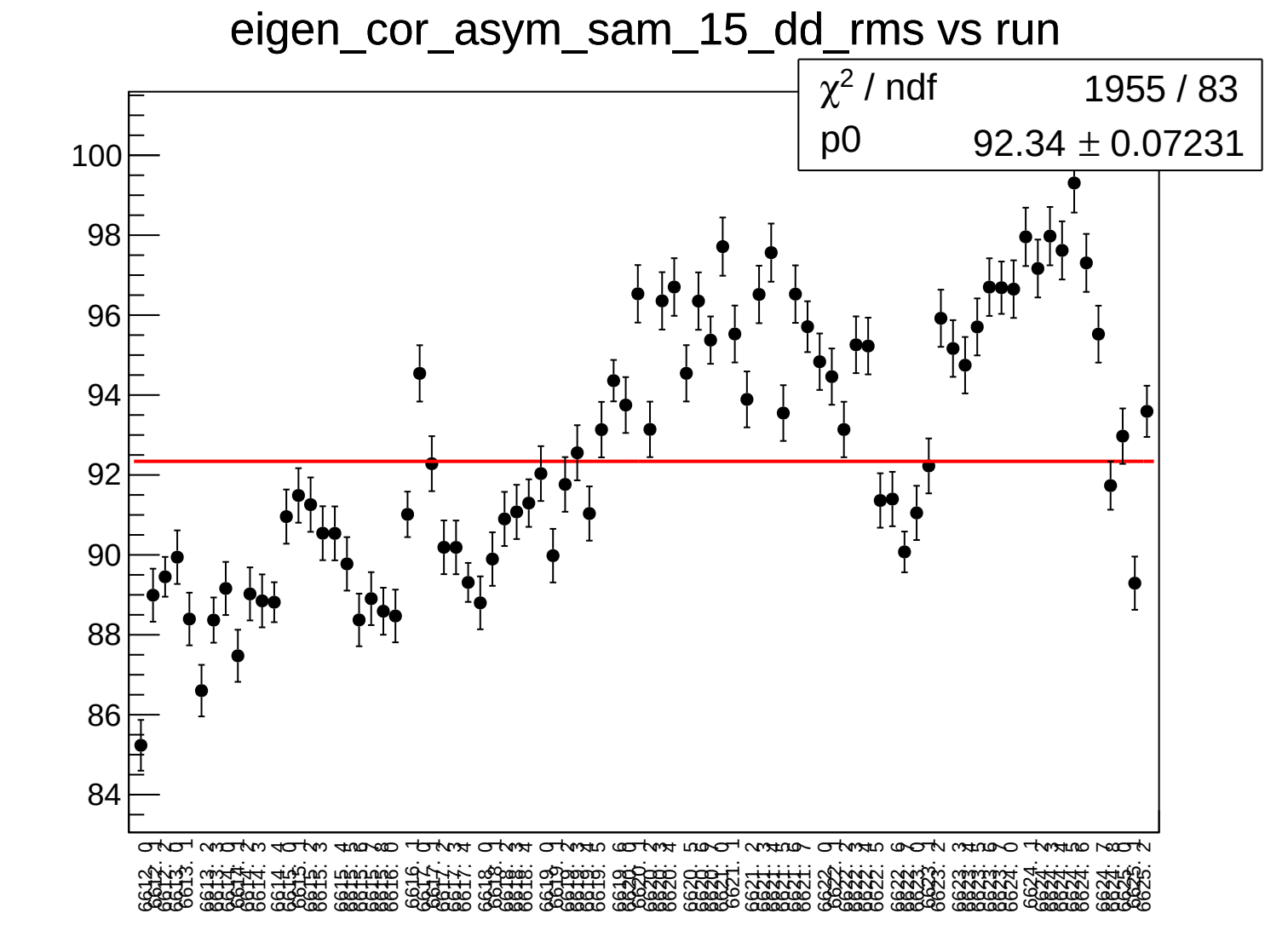

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 78.16 / 83
p0 810.7 ± 704.8
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 158.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

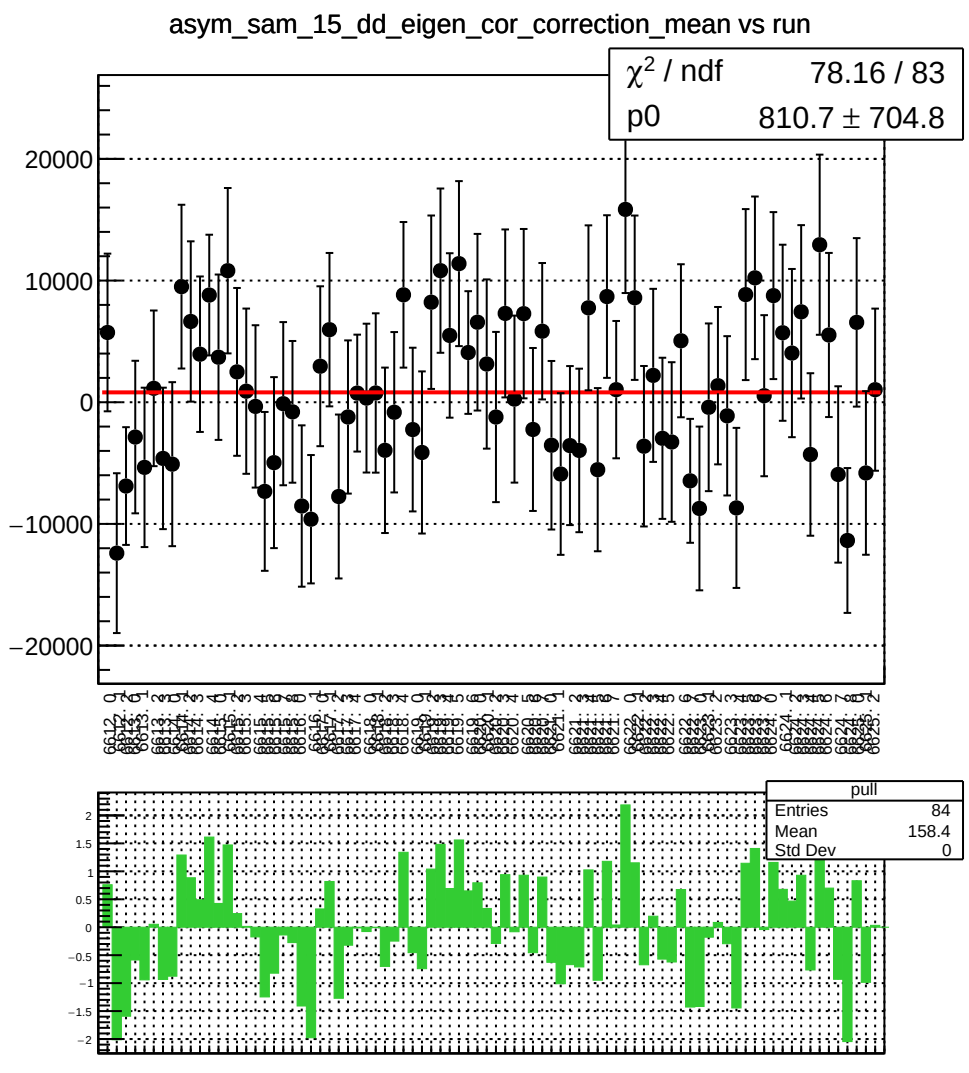

pull1D
Entries 84
Mean 0.01889
Std Dev 0.9644
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

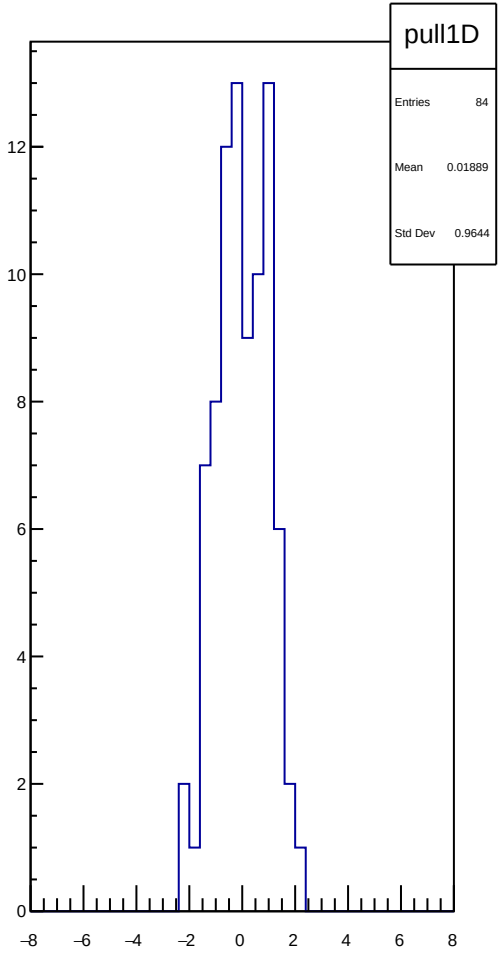

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 2242 / 83
p0 636.3 ± 0.4984
720
700
680
660
640
620
600
580

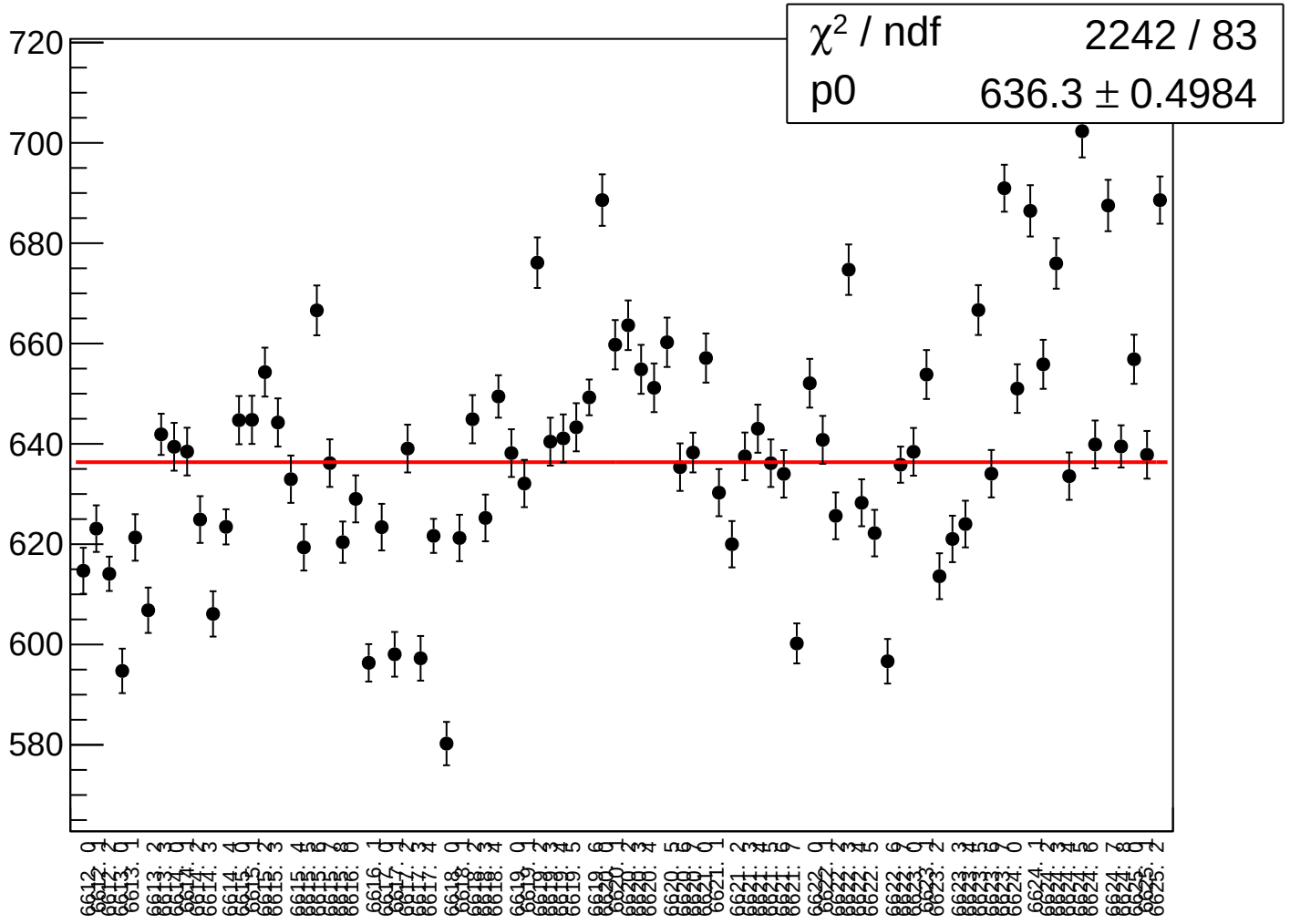

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 93.42 / 83
p0 −98.65 ± 102.3
pull
Entries 84
Mean −407.1
Std Dev 0

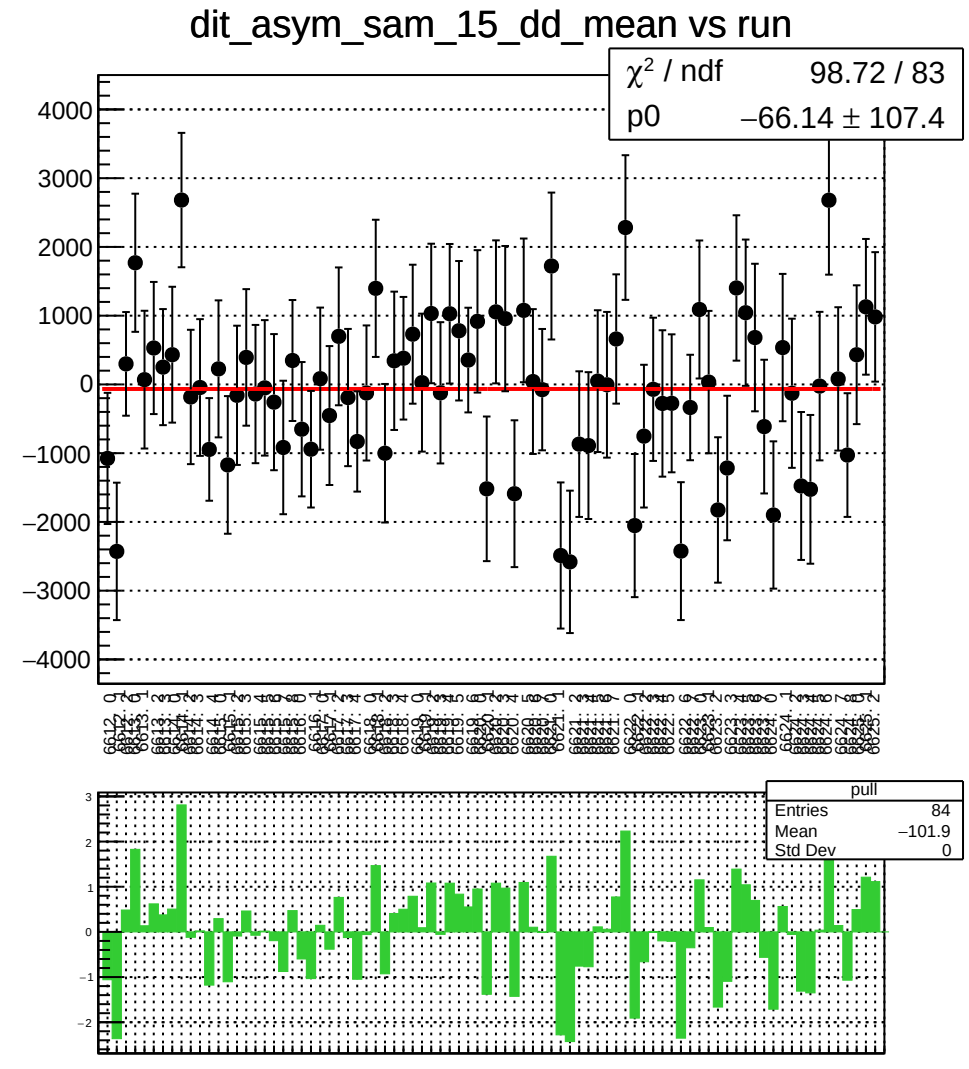

pull1D
Entries 84
Mean 0.001083
Std Dev 1.055

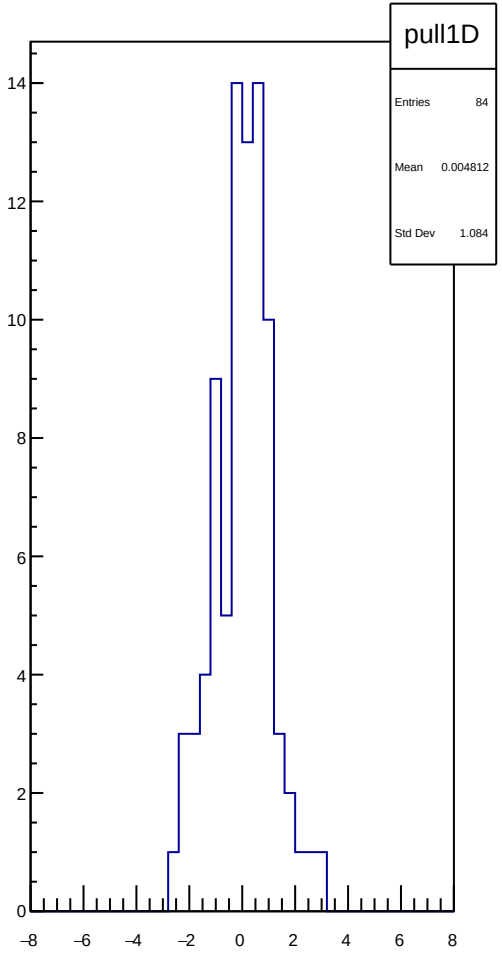

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 1955 / 83
p0 92.34 ± 0.07231
100
98
96
94
92
90
88
86
84

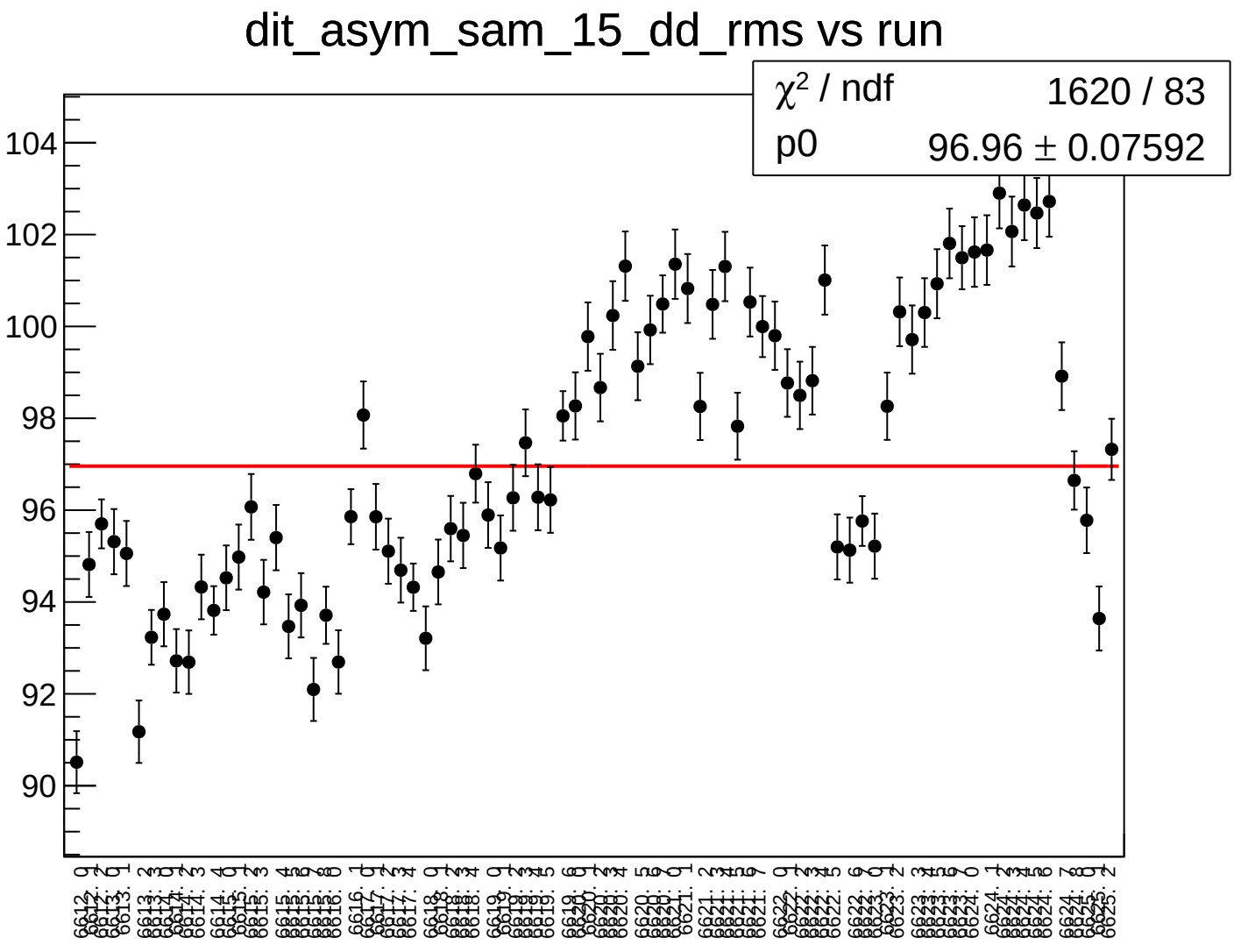

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.16 / 83
p0 810.7 ± 704.8
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 158.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

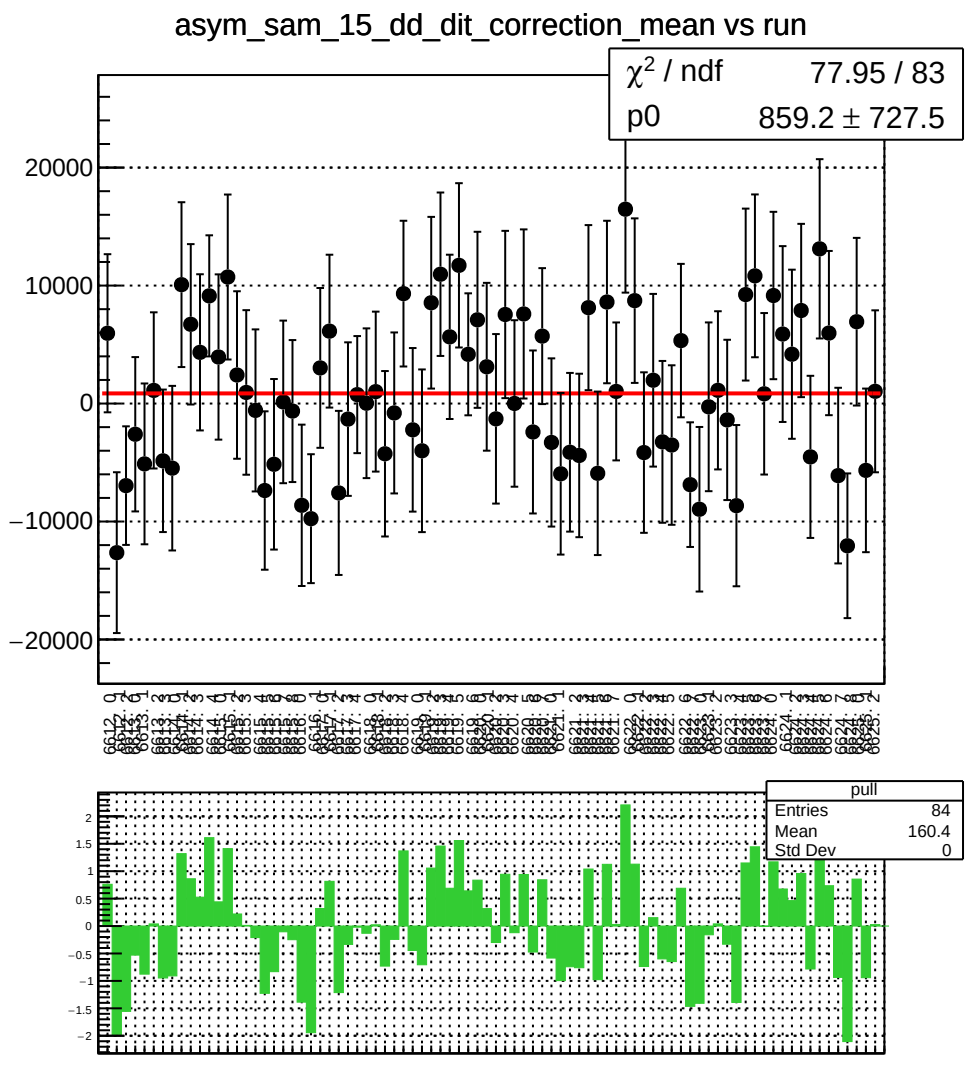

pull1D
Entries 84
Mean 0.01889
Std Dev 0.9644
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

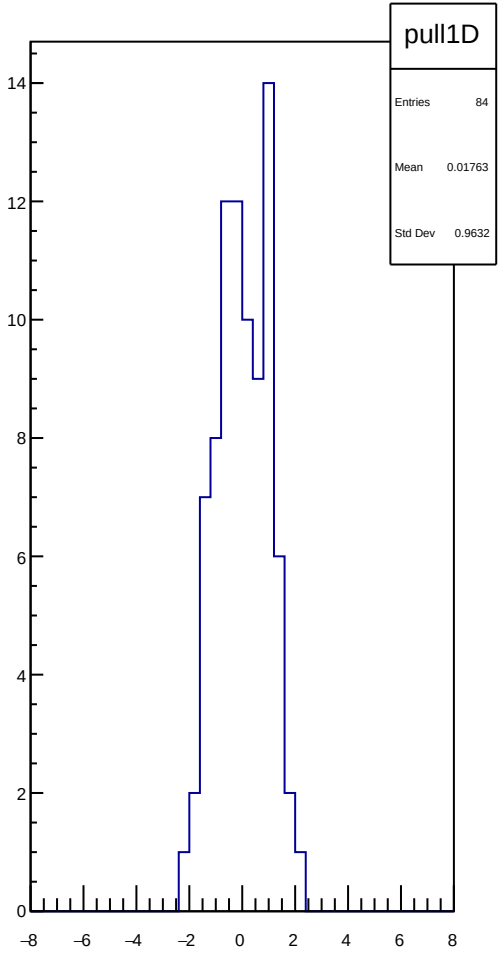

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 2242 / 83
p0 636.3 ± 0.4984
720
700
680
660
640
620
600
580

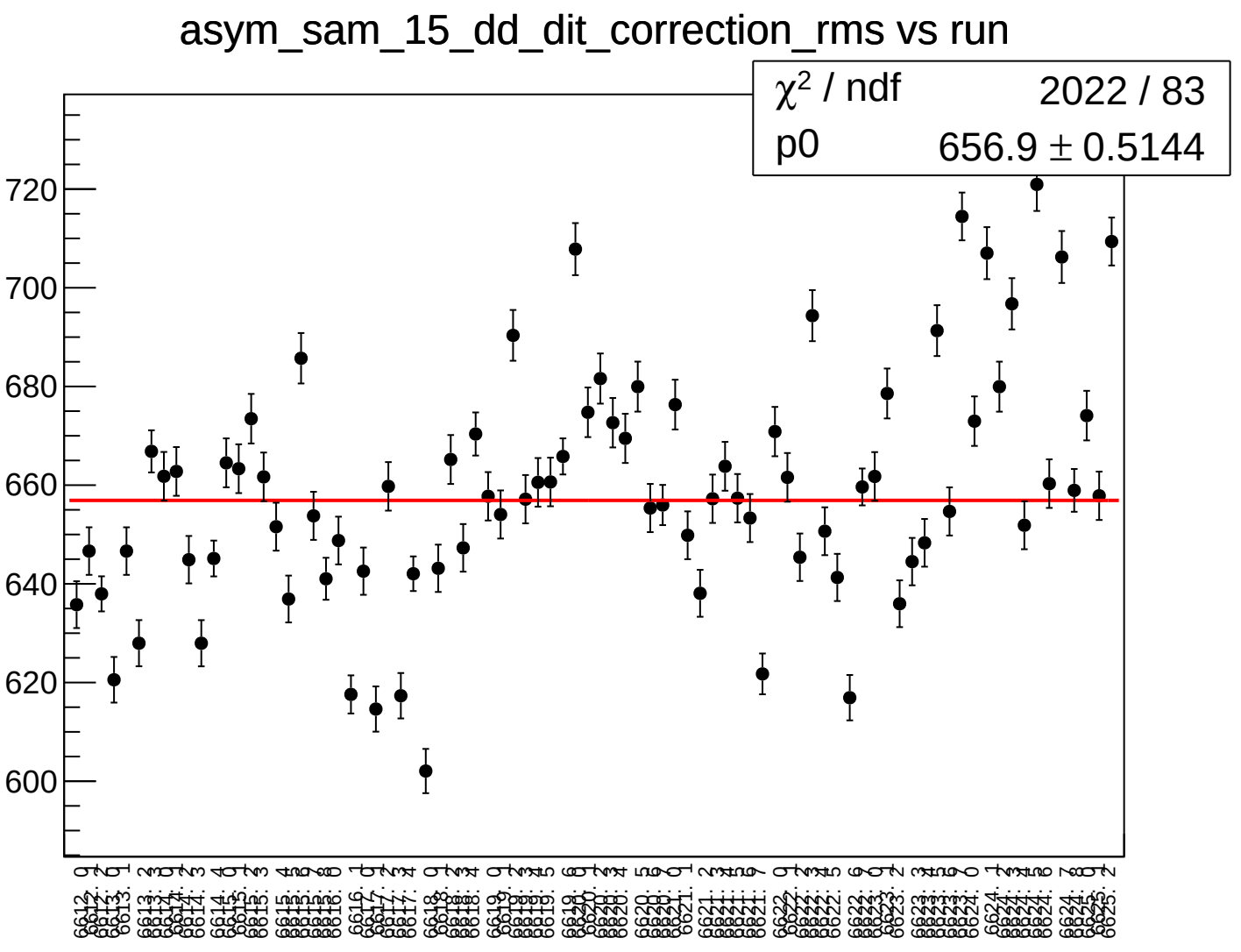

dit_asym_sam_15_dd_mean vs run
χ² / ndf 98.72 / 83
p0 −66.14 ± 107.4
pull
Entries 84
Mean −101.9
Std Dev 0

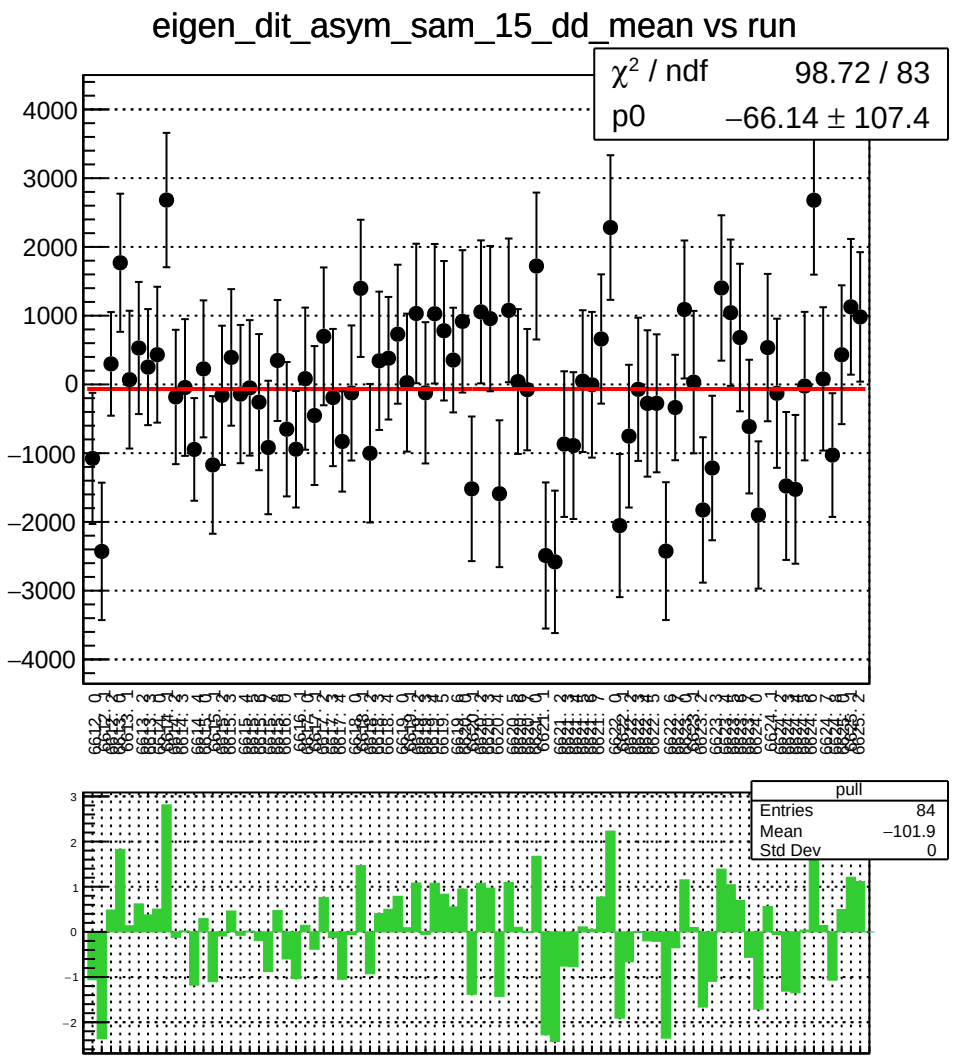

pull1D
Entries 84
Mean 0.004812
Std Dev 1.084

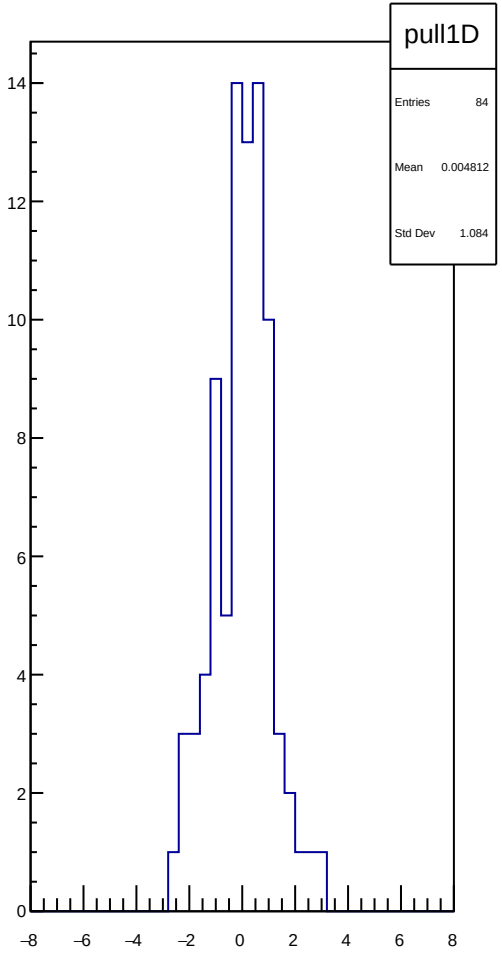

dit_asym_sam_15_dd_rms vs run
χ² / ndf 1620 / 83
p0 96.96 ± 0.07592
104
102
100
98
96
94
92
90

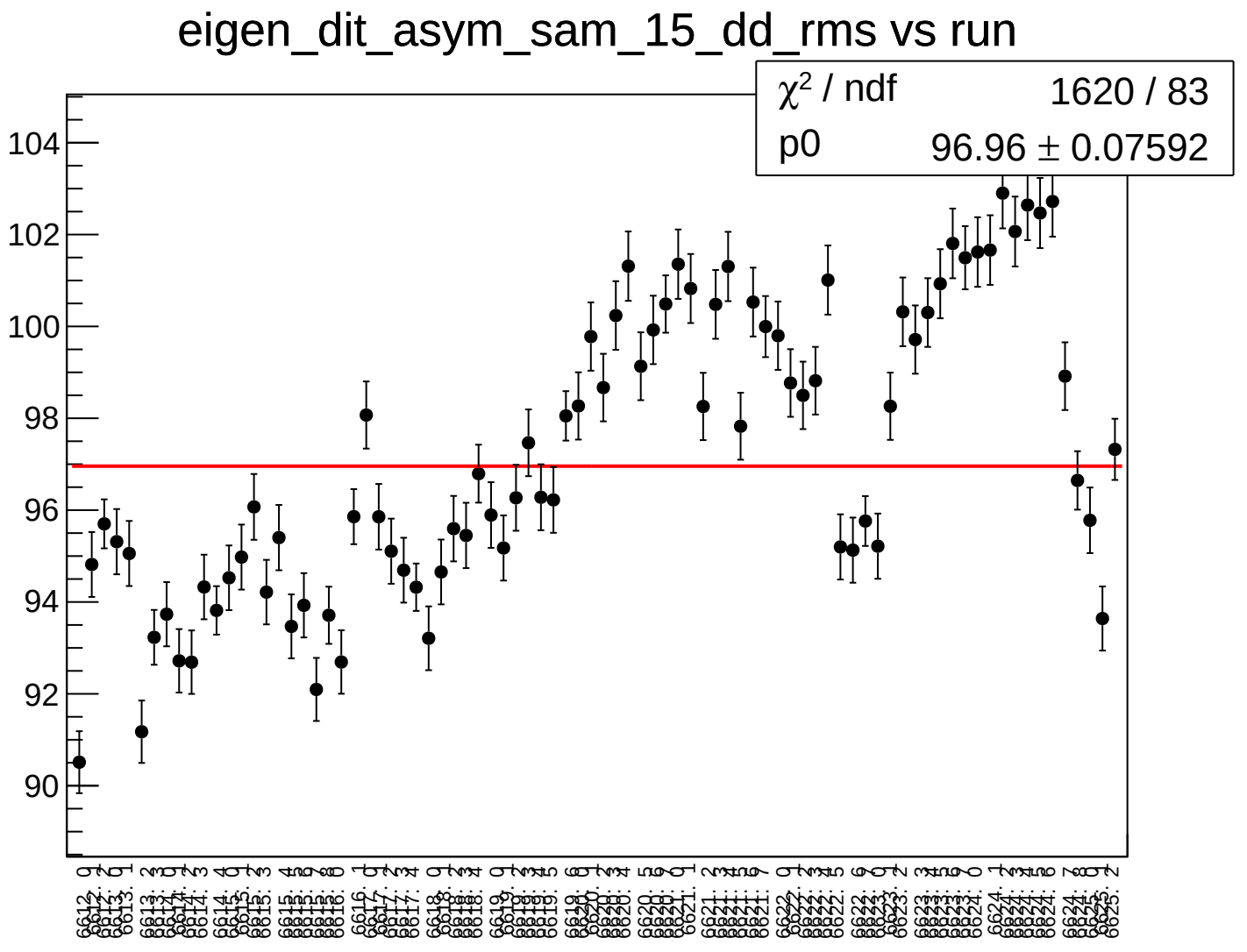

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 77.95 / 83
p0 859.2 ± 727.5
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 160.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

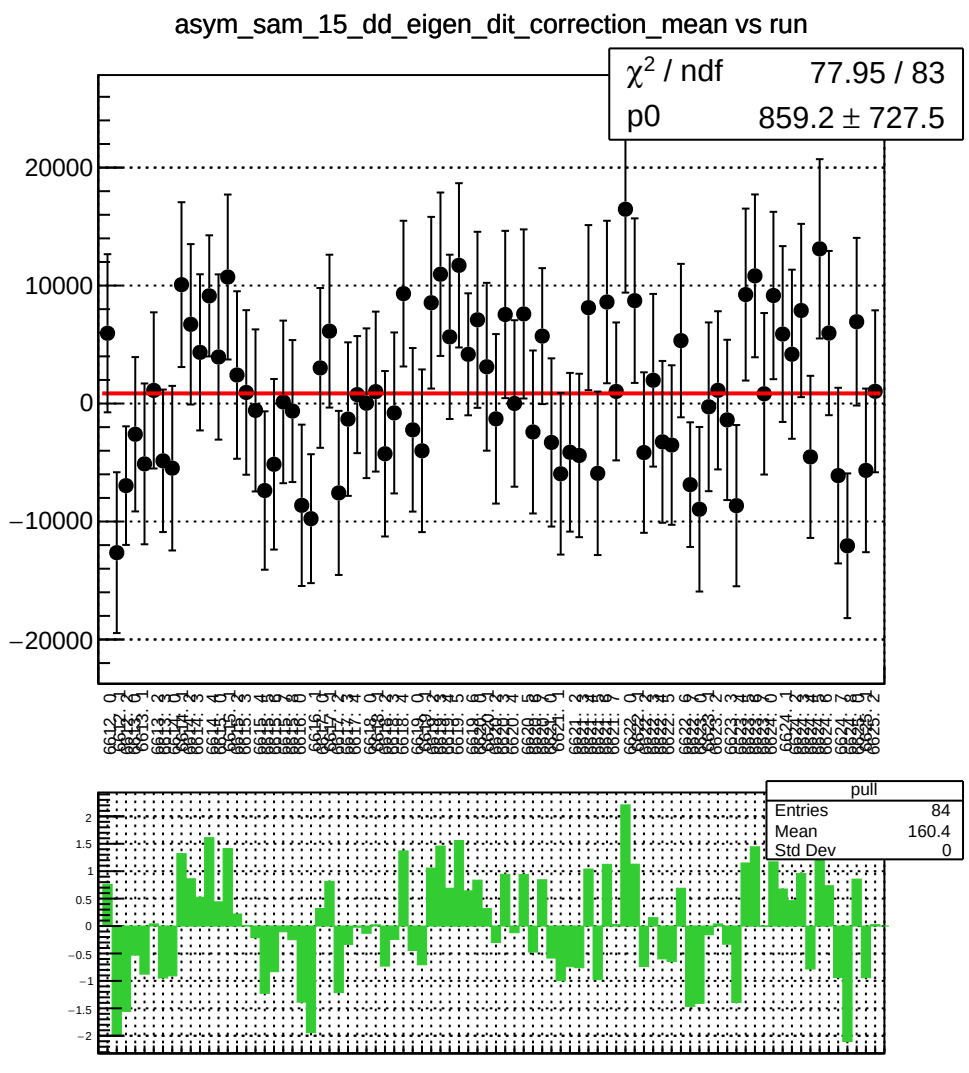

pull1D
Entries 84
Mean 0.01763
Std Dev 0.9632
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

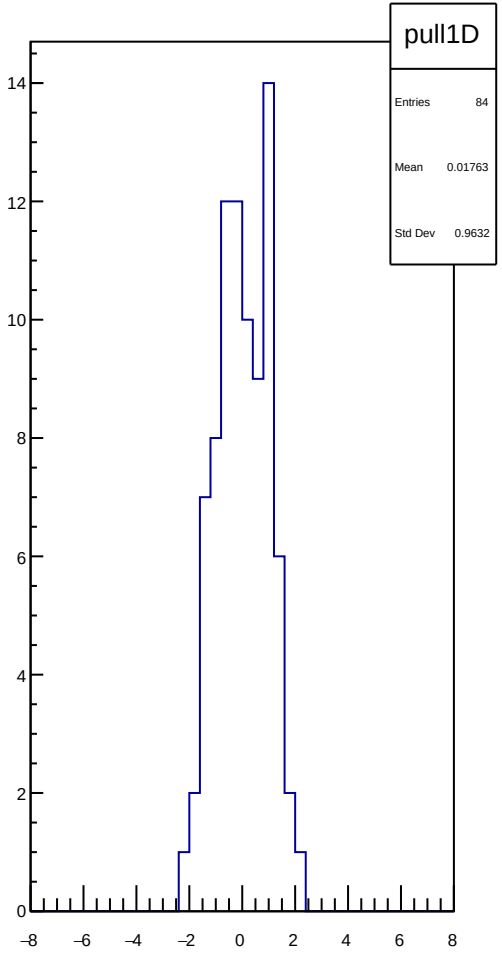

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 2022 / 83
p0 656.9 ± 0.5144
720
700
680
660
640
620
600

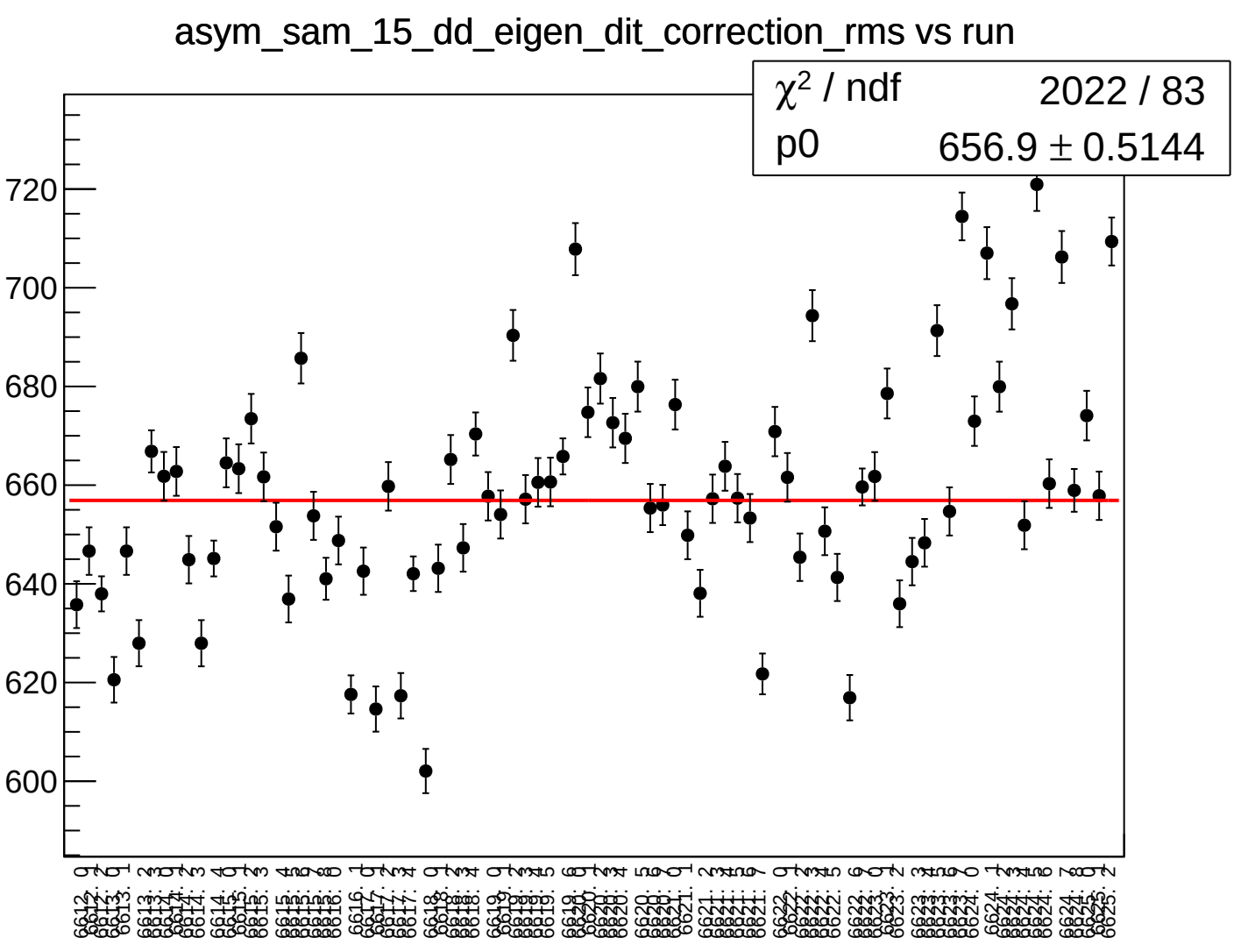

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 98.72 / 83
p0 −66.14 ± 107.4
pull
Entries 84
Mean −101.9
Std Dev 0

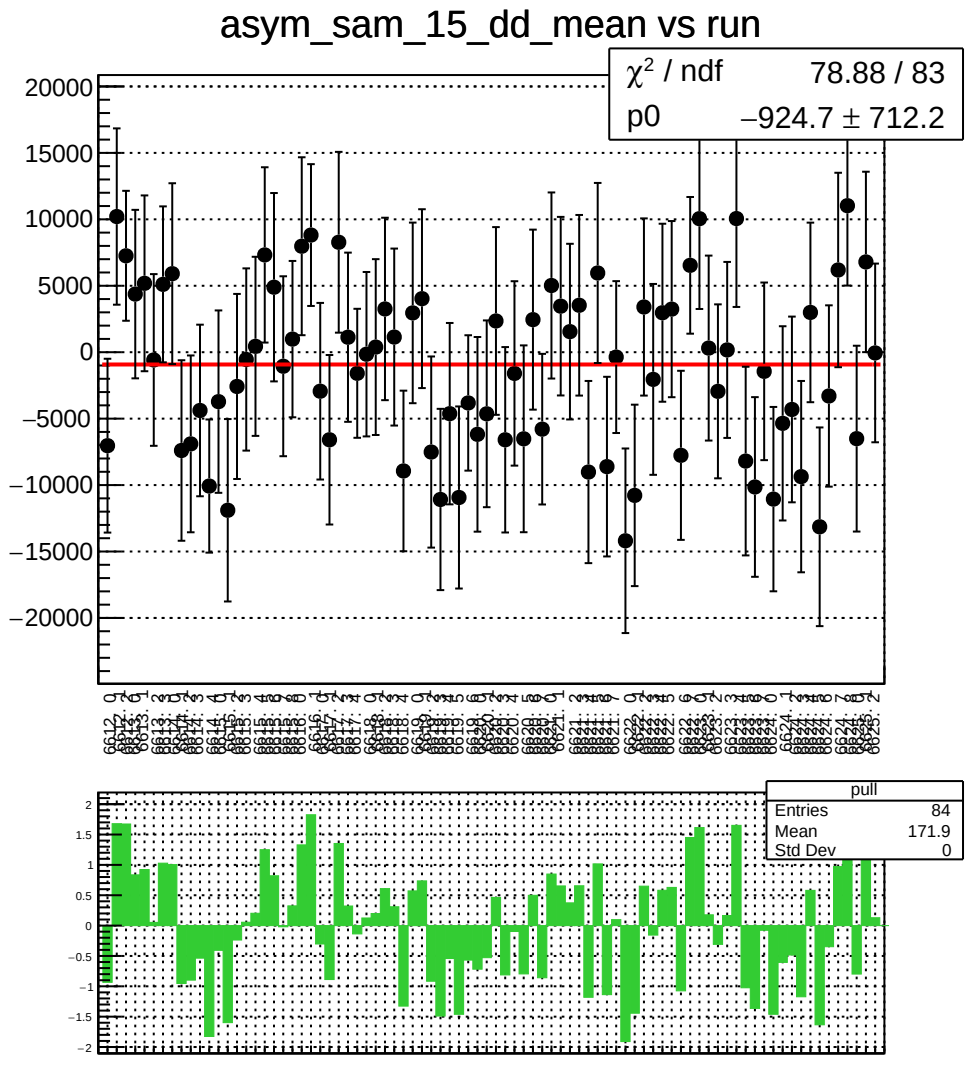

pull1D
Entries 84
Mean 0.004812
Std Dev 1.084

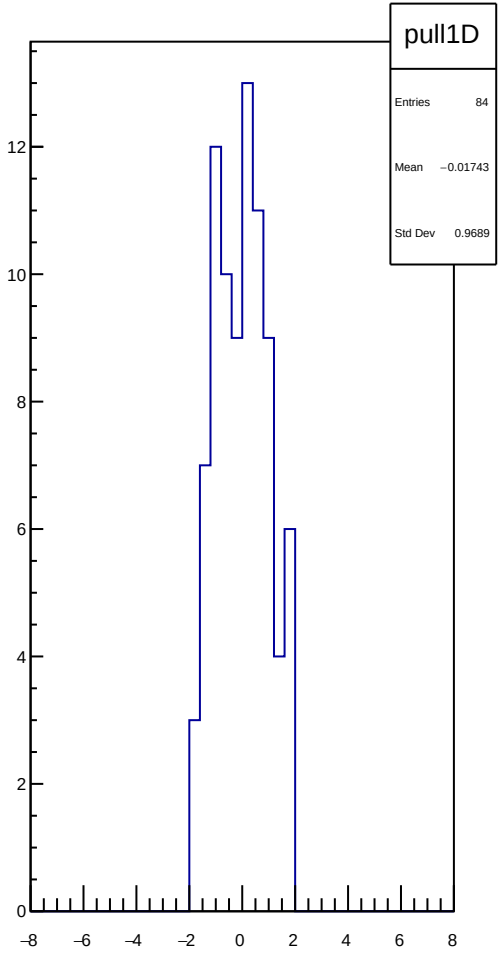

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 1620 / 83
p0 96.96 ± 0.07592
104
102
100
98
96
94
92
90

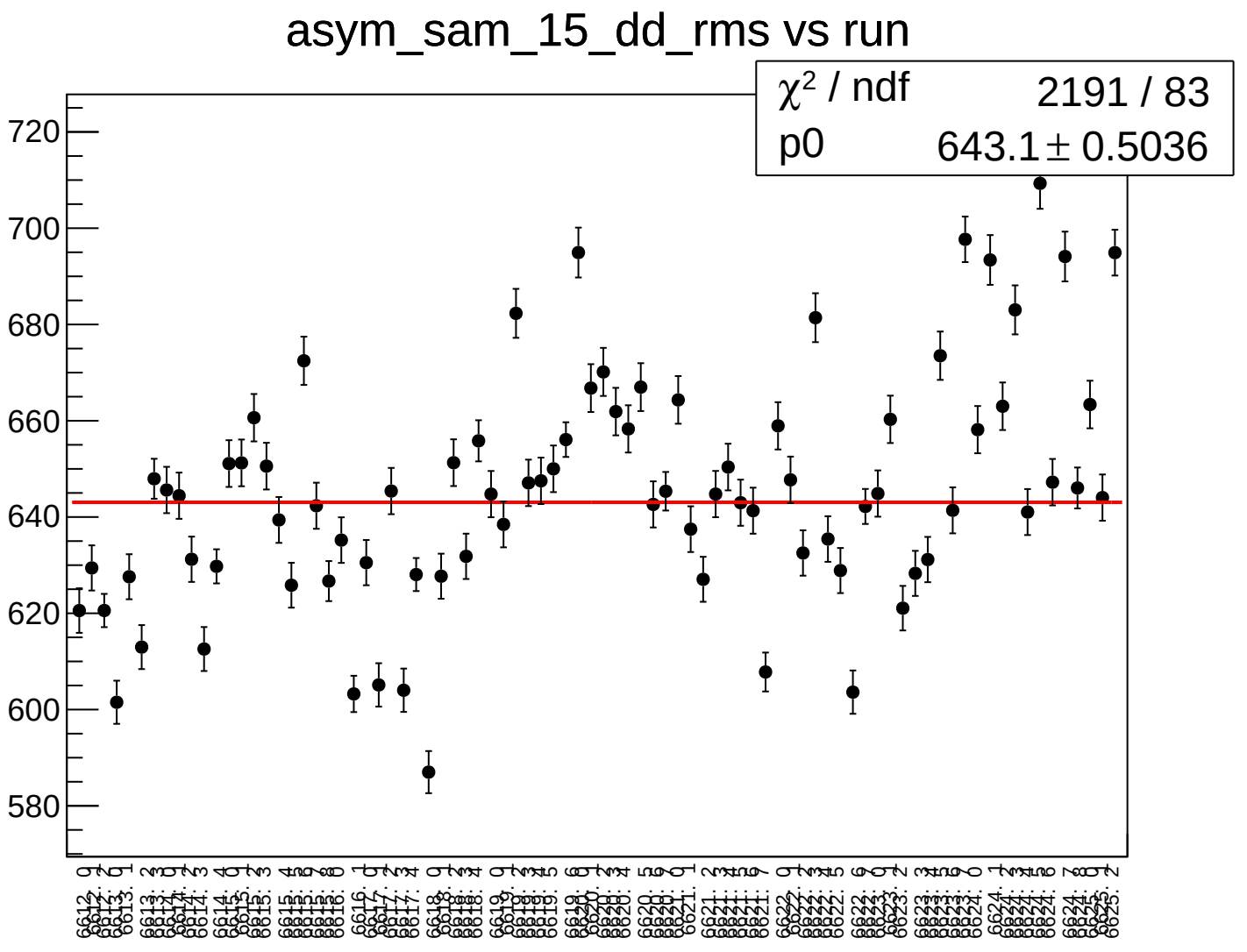

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.95 / 83
p0 859.2 ± 727.5
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 160.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

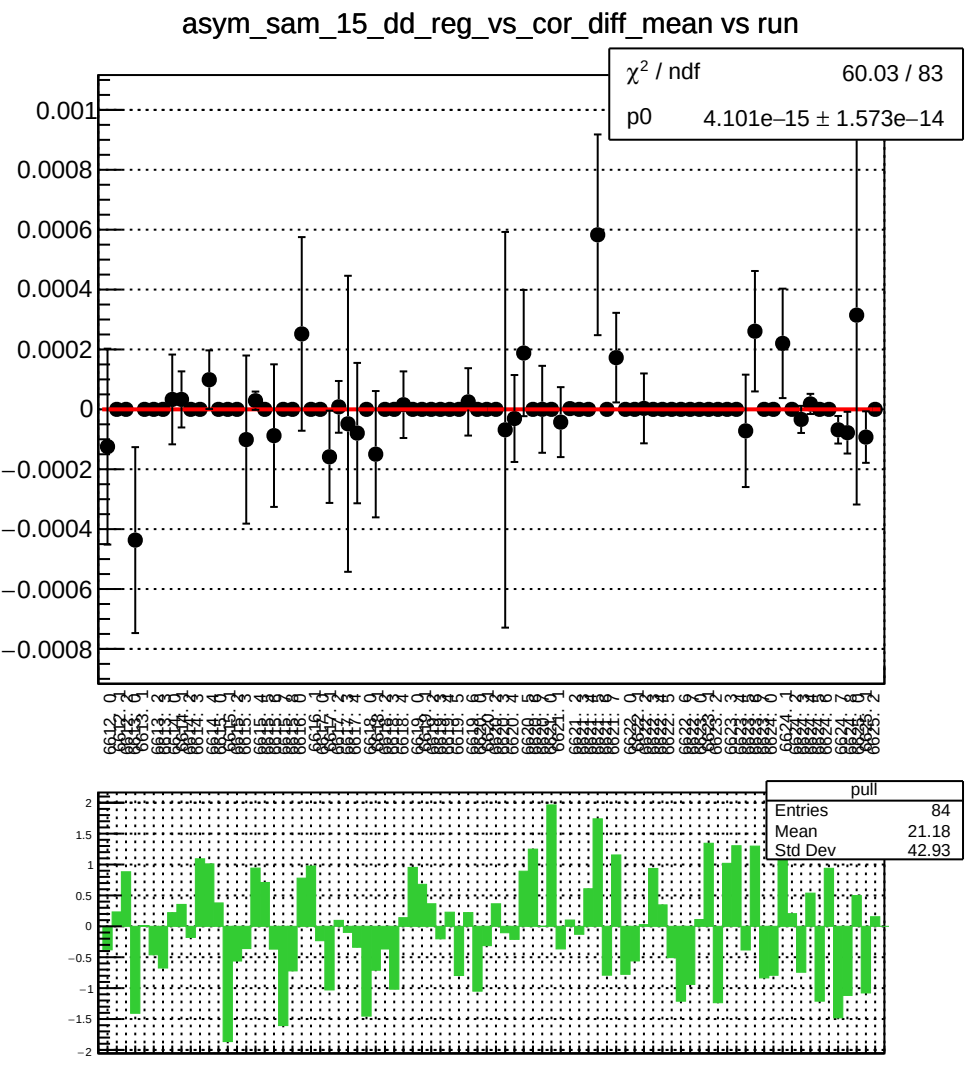

pull1D
Entries 84
Mean 0.01763
Std Dev 0.9632
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

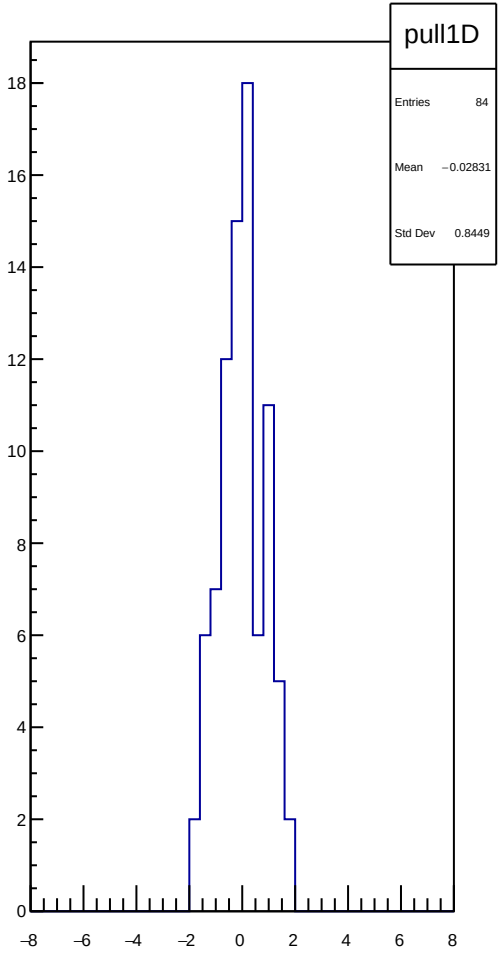

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 2022 / 83
p0 656.9 ± 0.5144
720
700
680
660
640
620
600

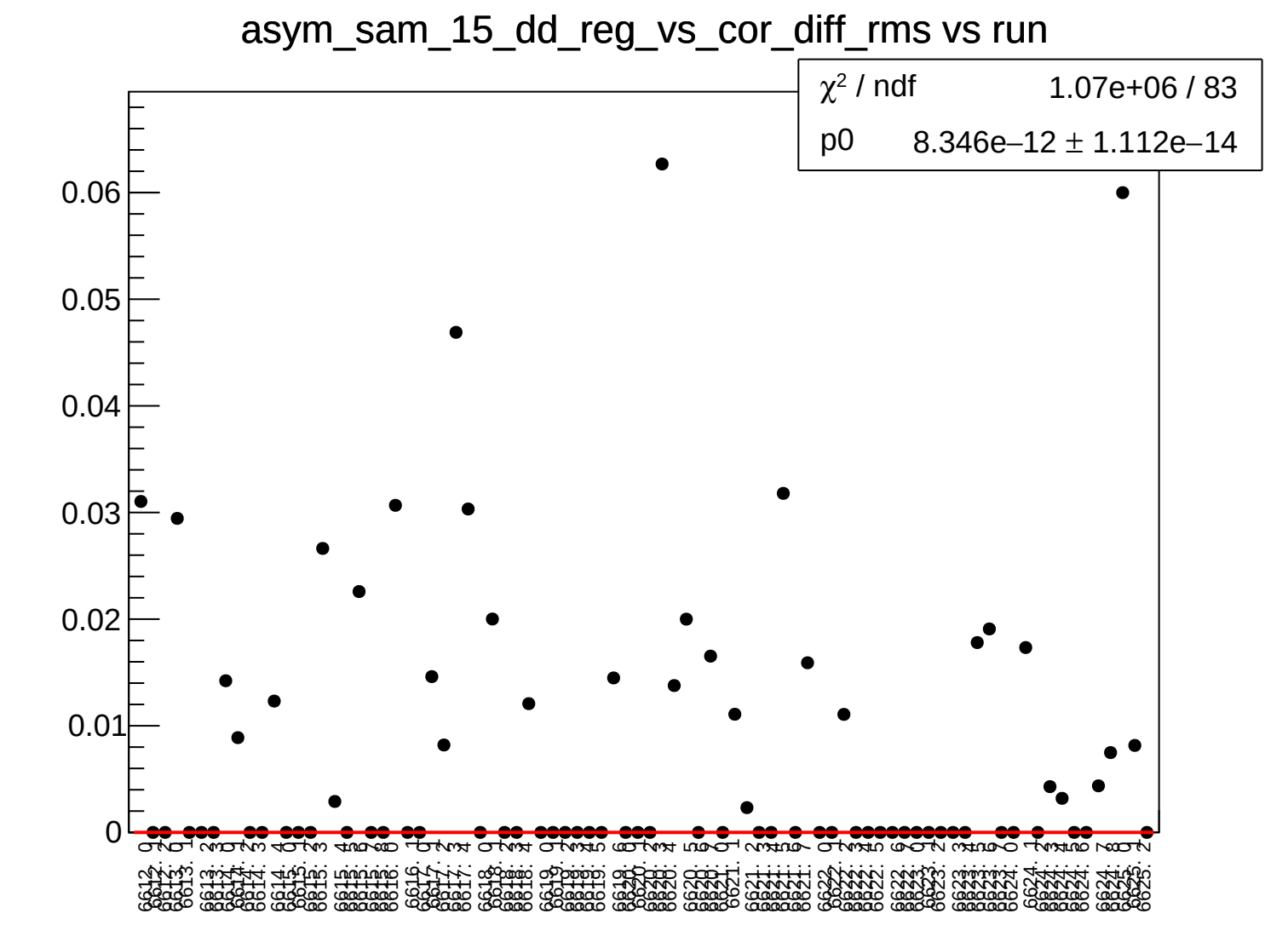

asym_sam_15_dd_mean vs run
χ² / ndf 78.88 / 83
p0 −924.7 ± 712.2
pull
Entries 84
Mean 171.9
Std Dev 0

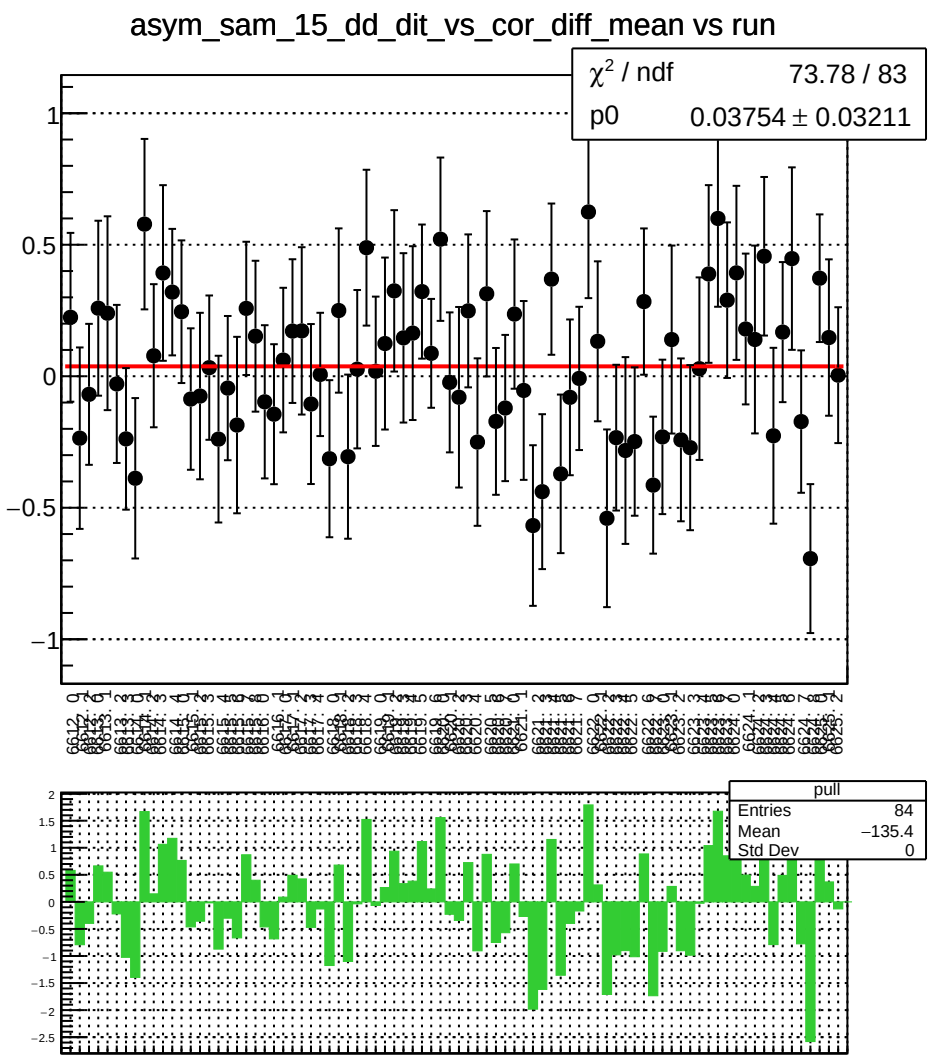

pull1D
Entries 84
Mean −0.01743
Std Dev 0.9689

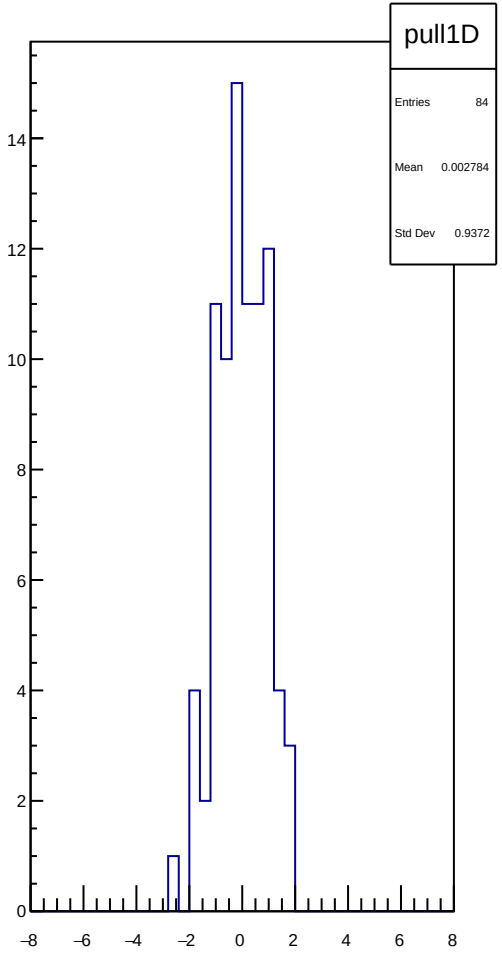

asym_sam_15_dd_rms vs run
χ² / ndf 2191 / 83
p0 643.1 ± 0.5036
720
700
680
660
640
620
600
580

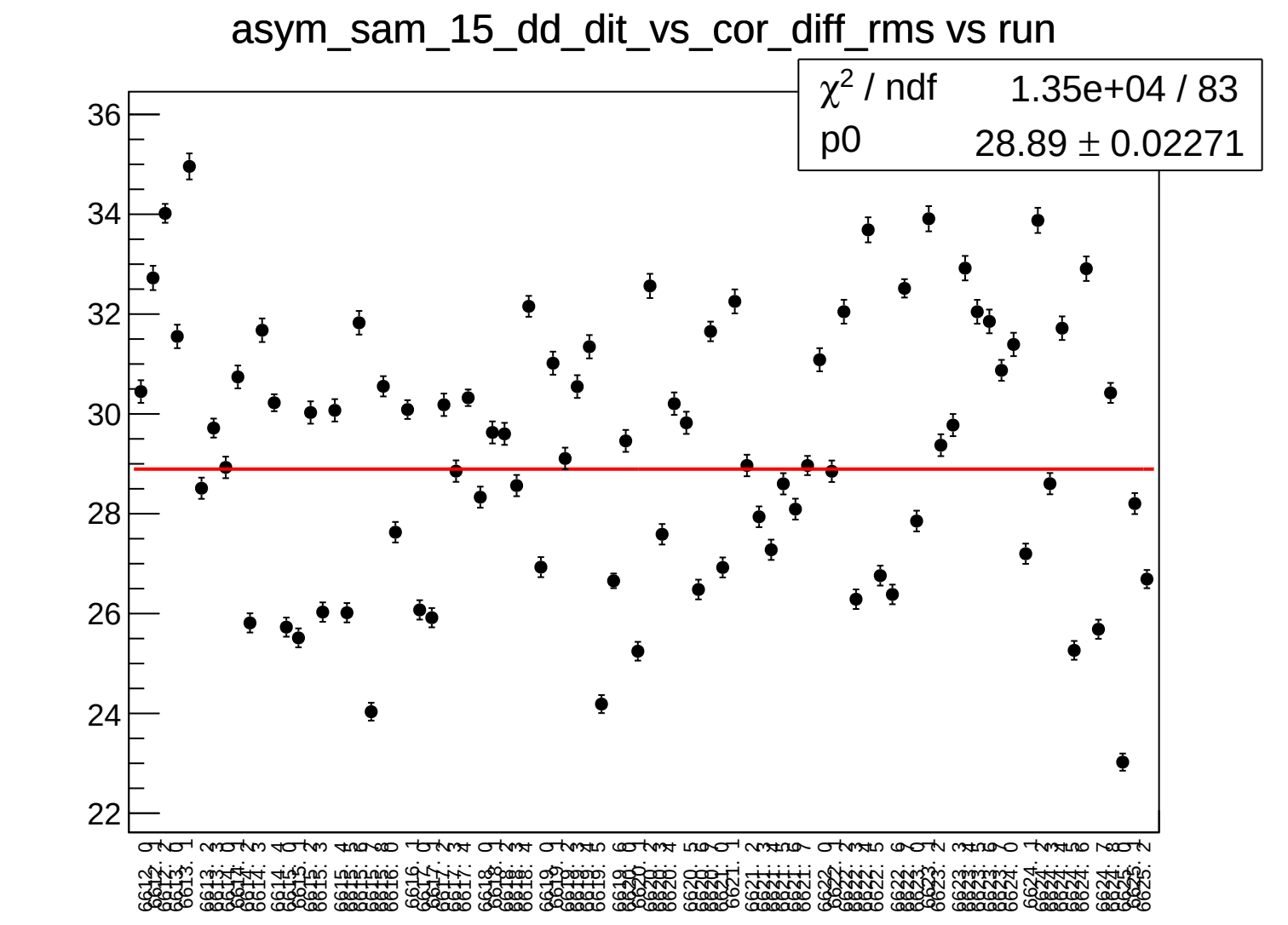

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 60.03 / 83
p0 4.101e−15 ± 1.573e−14
pull
Entries 84
Mean 21.18
Std Dev 42.93

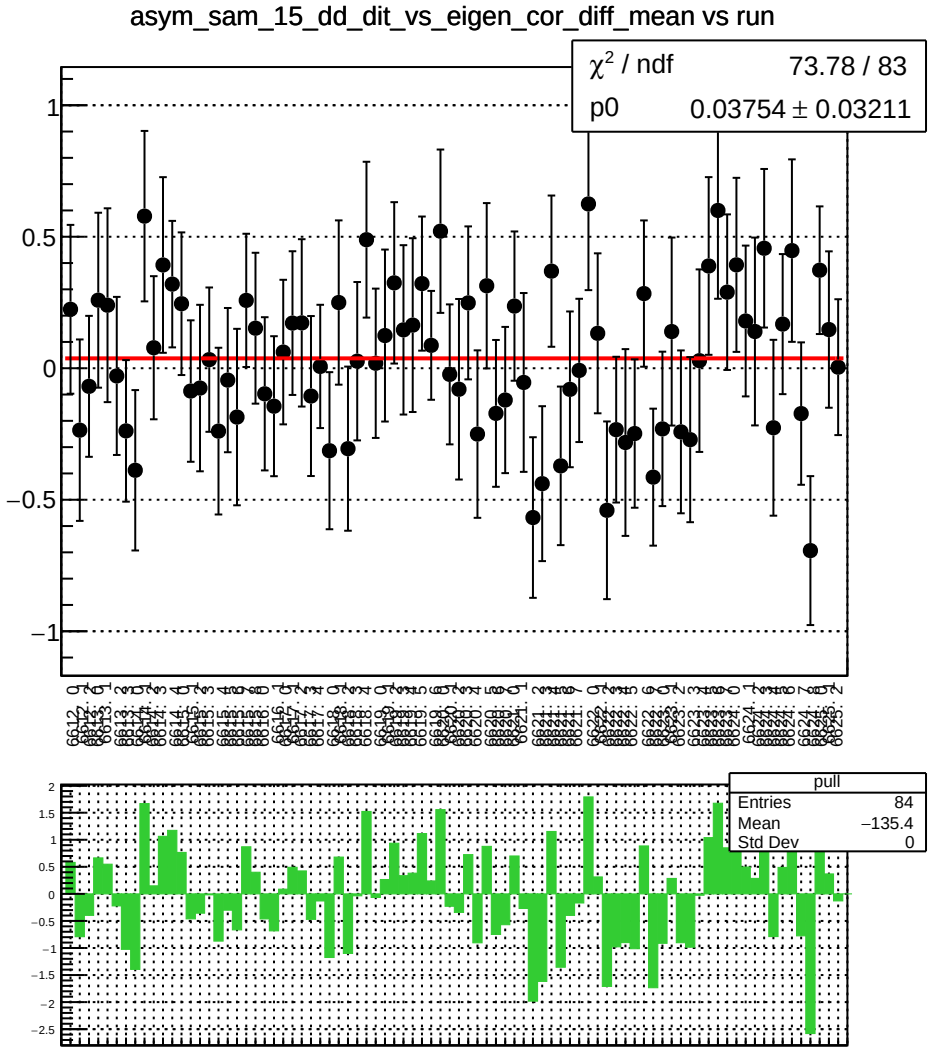

pull1D
Entries 84
Mean −0.02831
Std Dev 0.8449

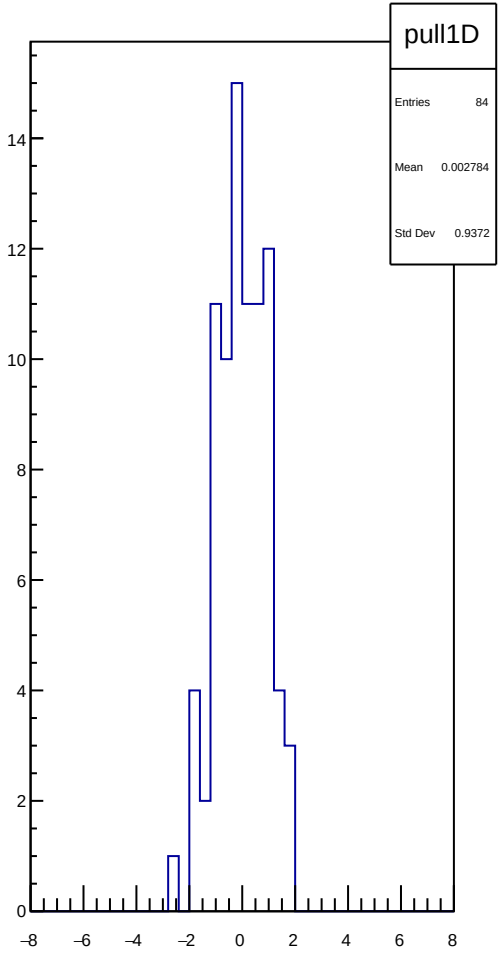

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.07e+06 / 83
p0 8.346e−12 ± 1.112e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

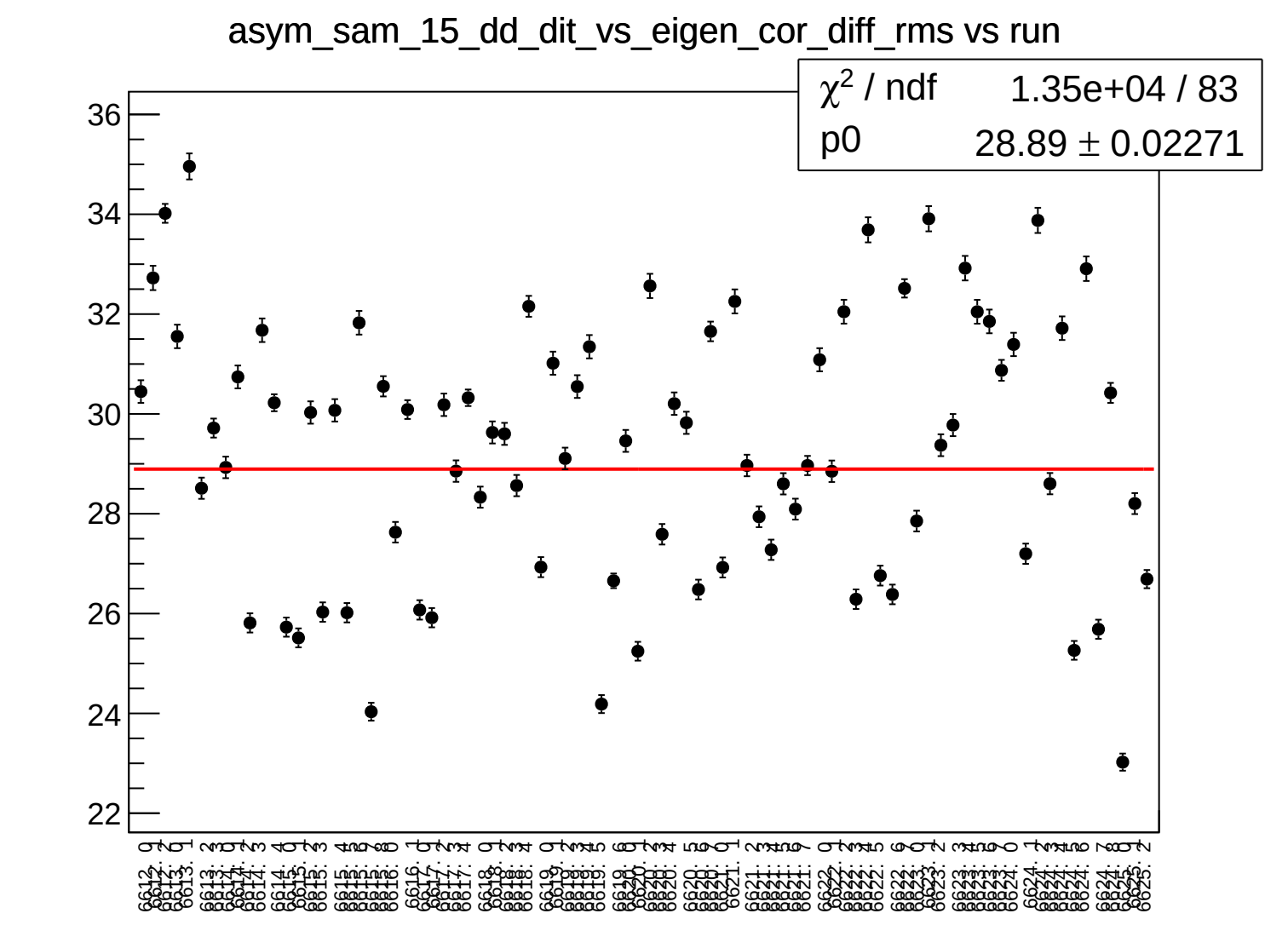

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.78 / 83
p0 0.03754 ± 0.03211
pull
Entries 84
Mean −135.4
Std Dev 0

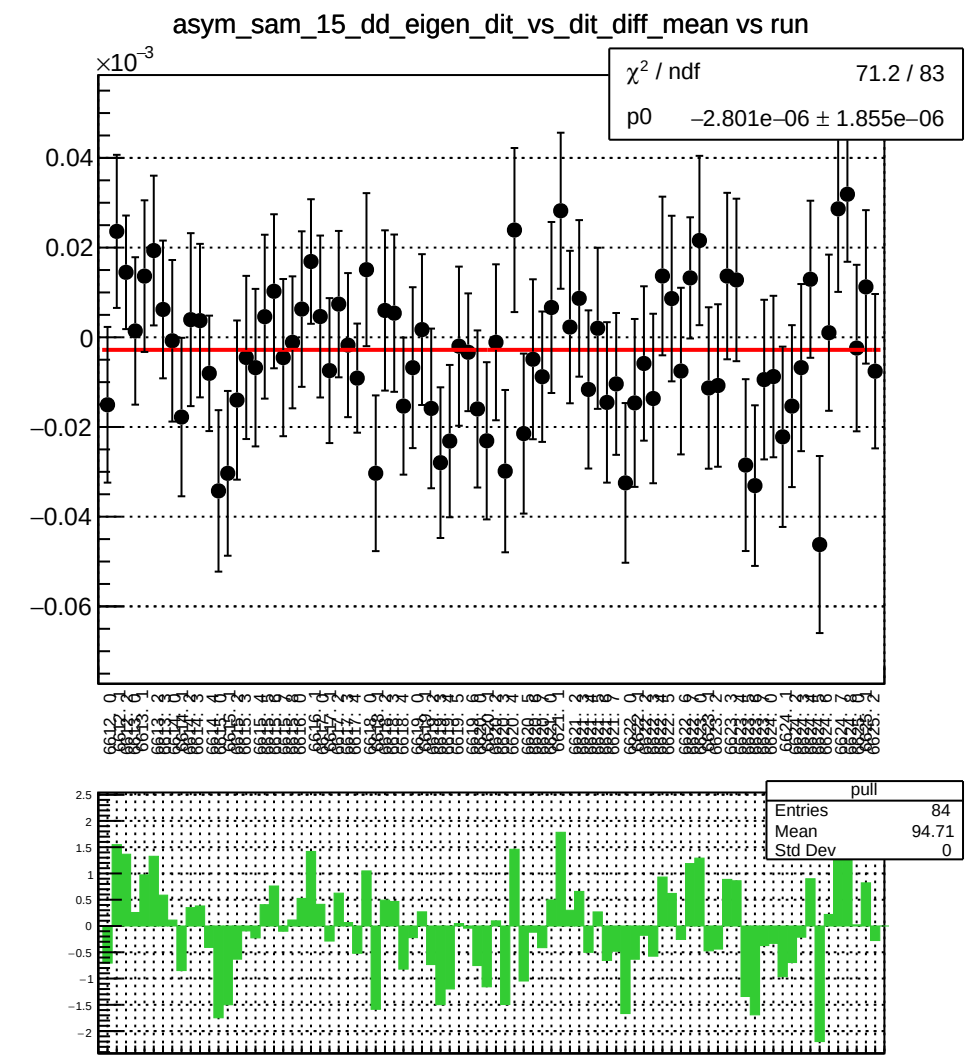

pull1D
Entries 84
Mean 0.002784
Std Dev 0.9372

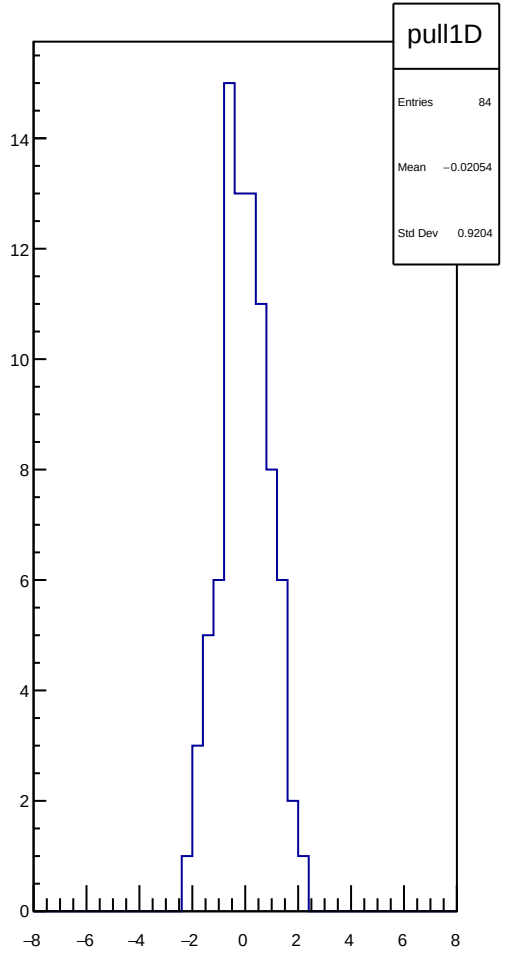

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.35e+04 / 83
p0 28.89 ± 0.02271
36
34
32
30
28
26
24
22

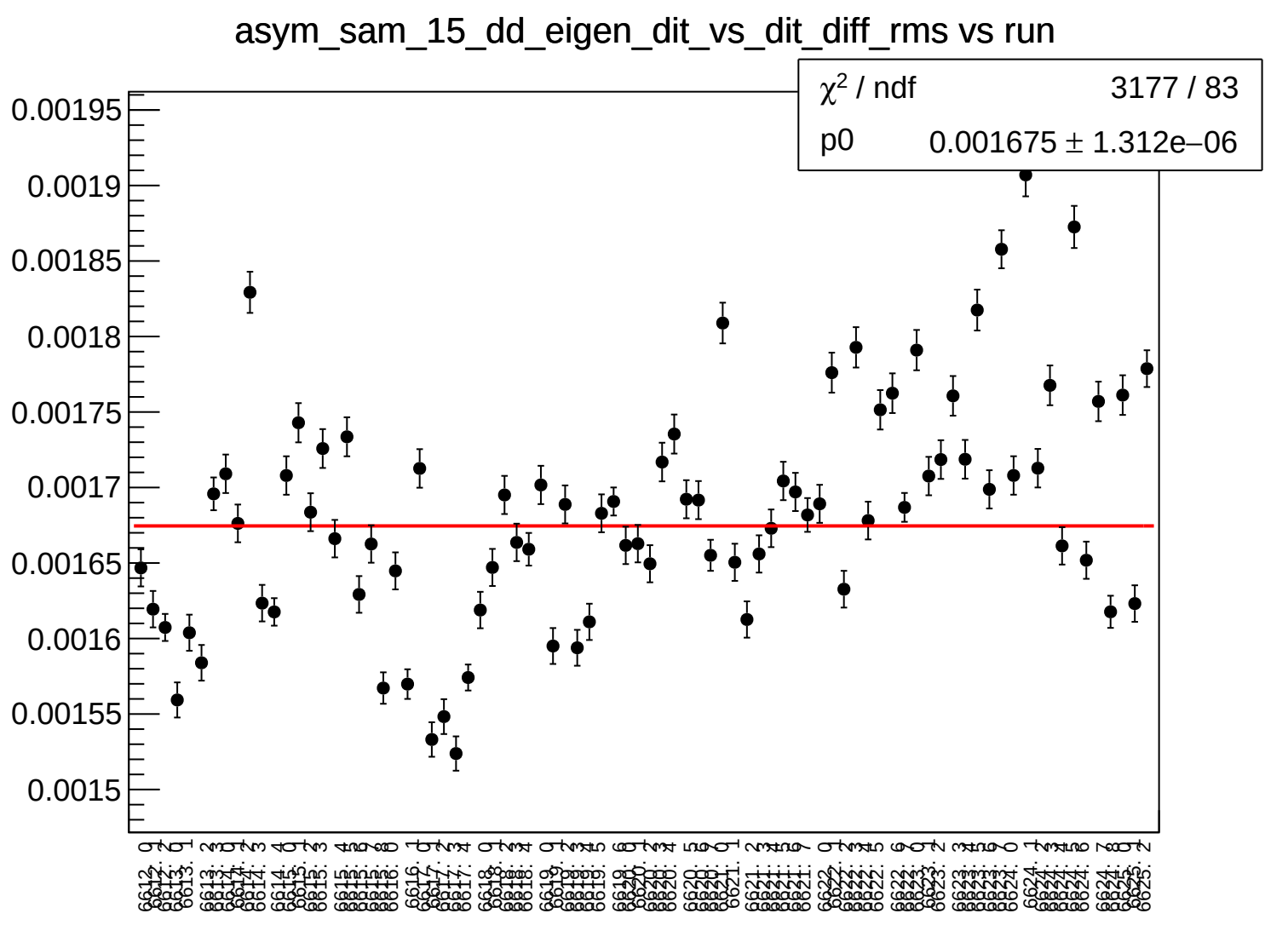

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.78 / 83
p0 0.03754 ± 0.03211
pull
Entries 84
Mean −135.4
Std Dev 0

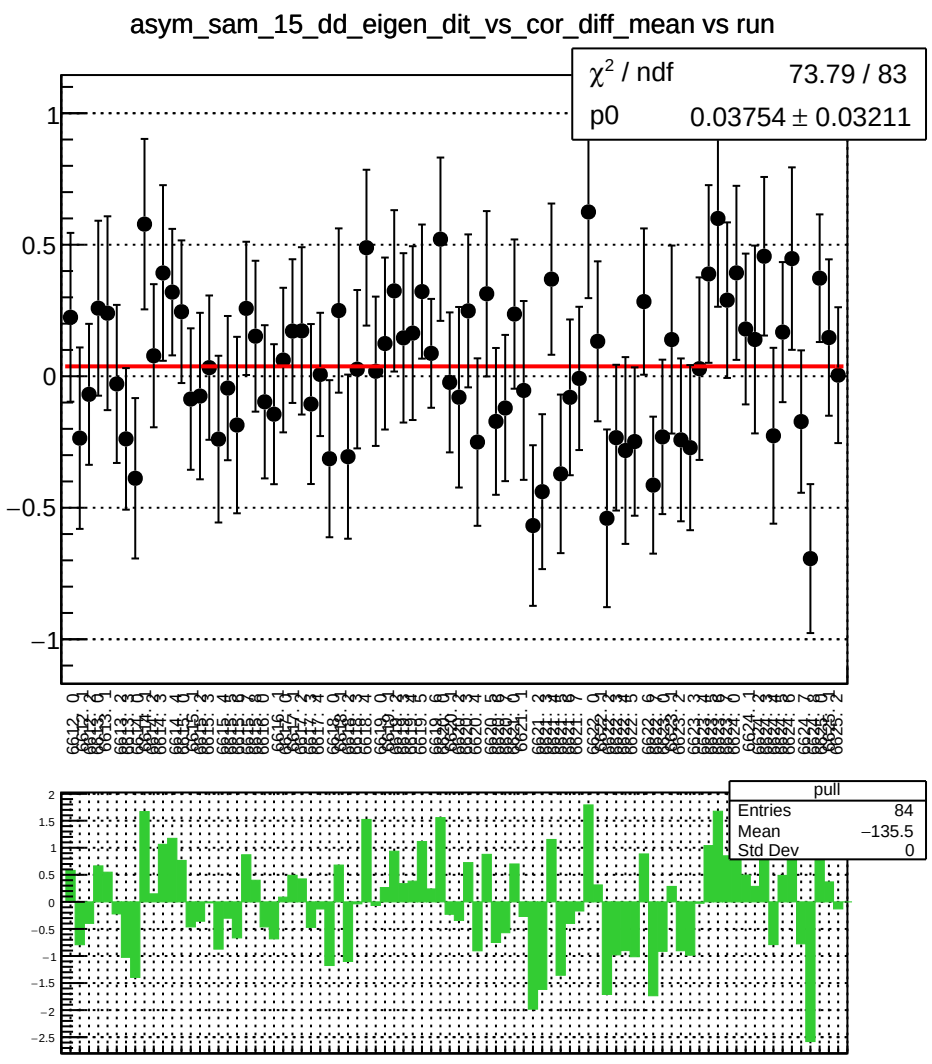

pull1D
Entries 84
Mean 0.002784
Std Dev 0.9372

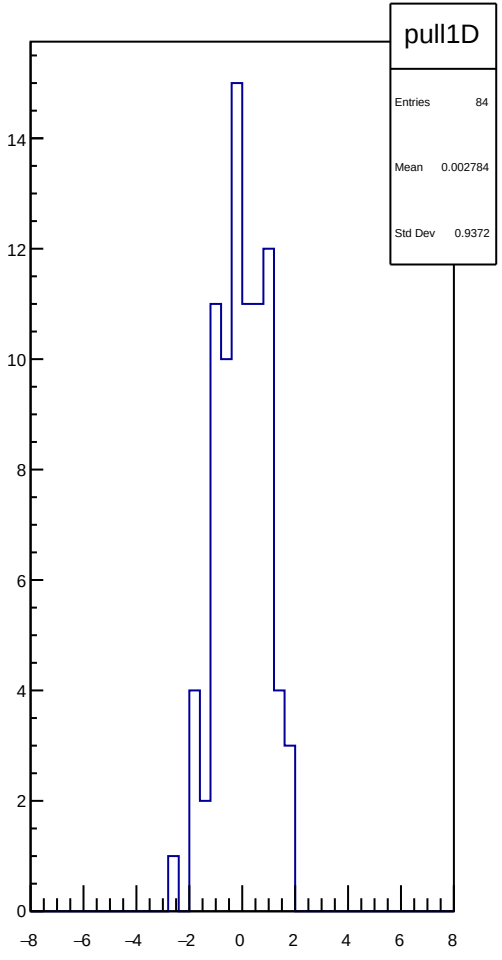

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.35e+04 / 83
p0 28.89 ± 0.02271
36
34
32
30
28
26
24
22

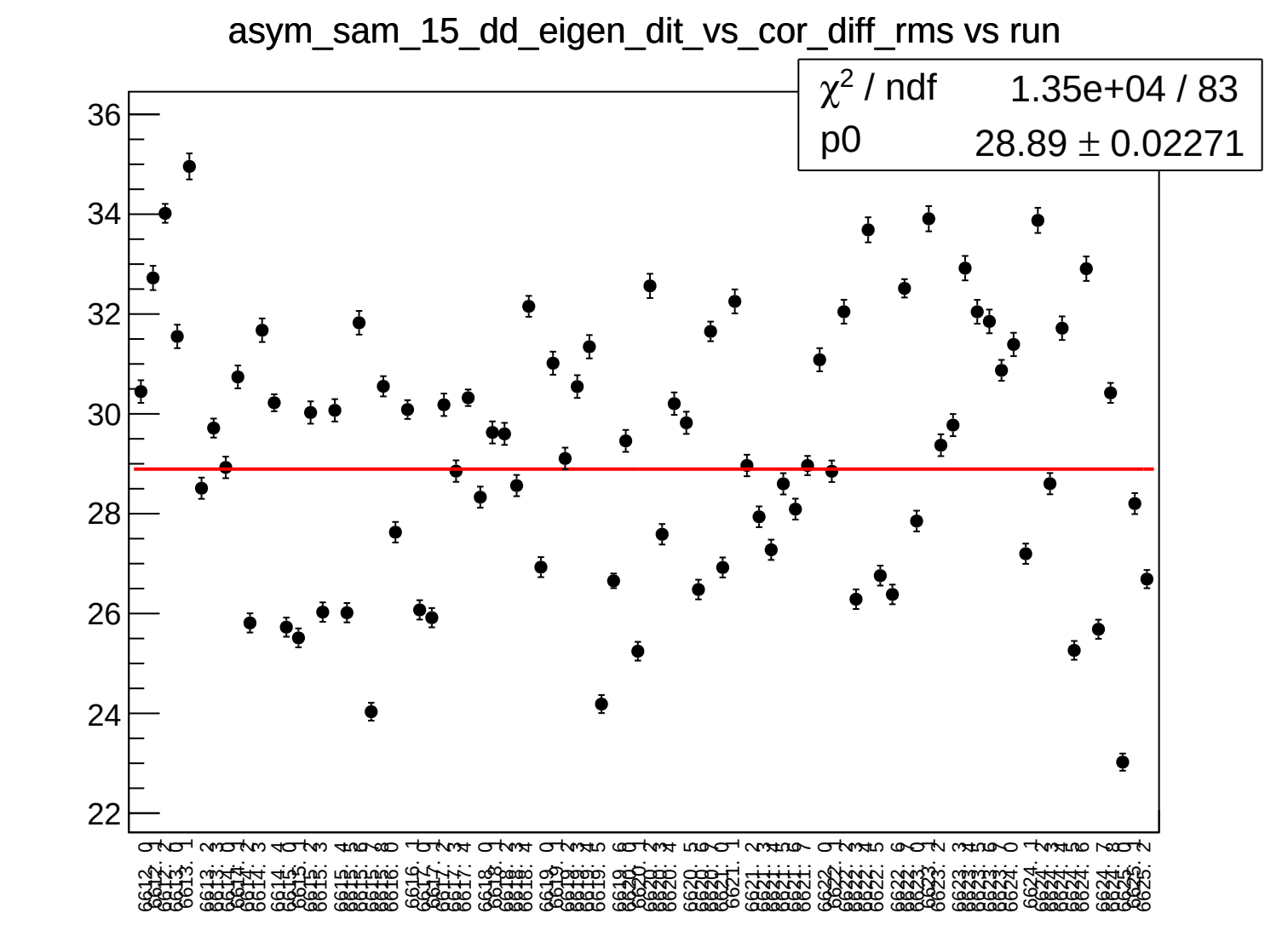

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.2 / 83
p0 −2.801e−06 ± 1.855e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 84
Mean 94.71
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

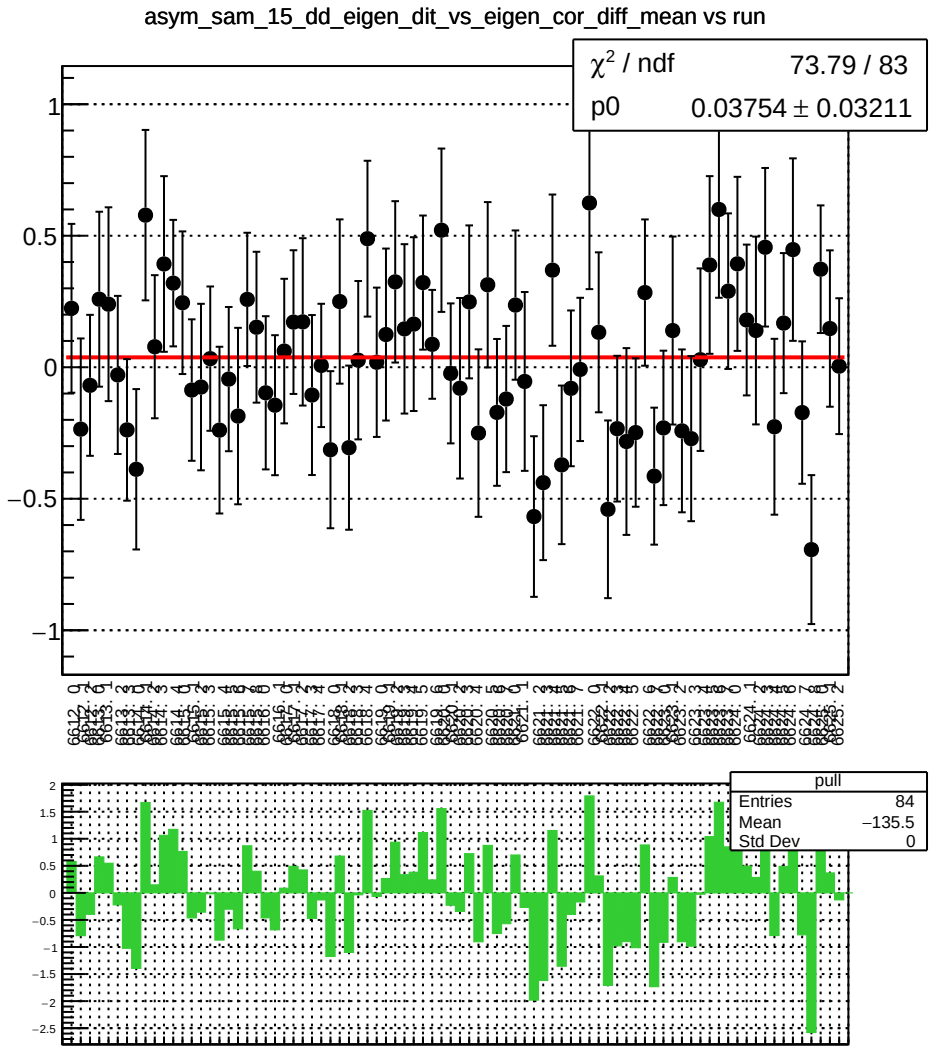

pull1D
Entries 84
Mean −0.02054
Std Dev 0.9204
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

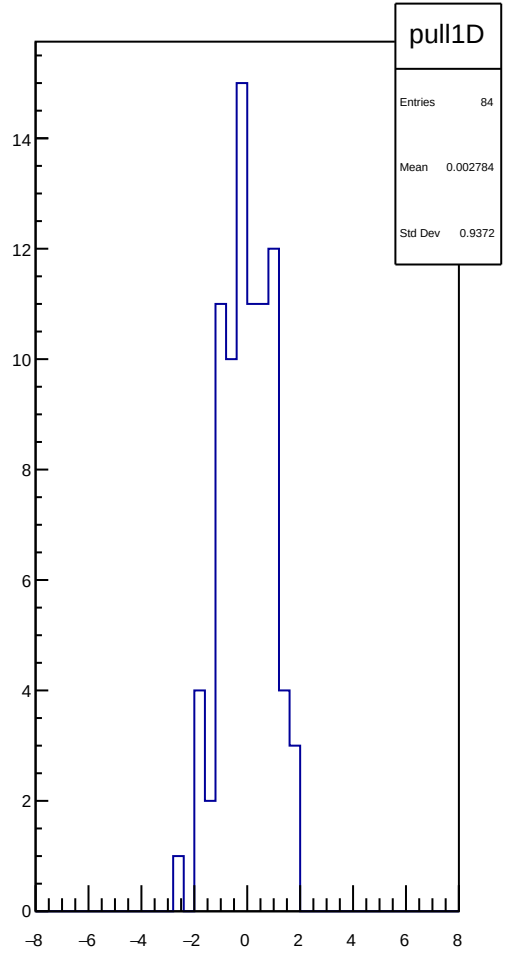

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3177 / 83
p0 0.001675 ± 1.312e−06
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015

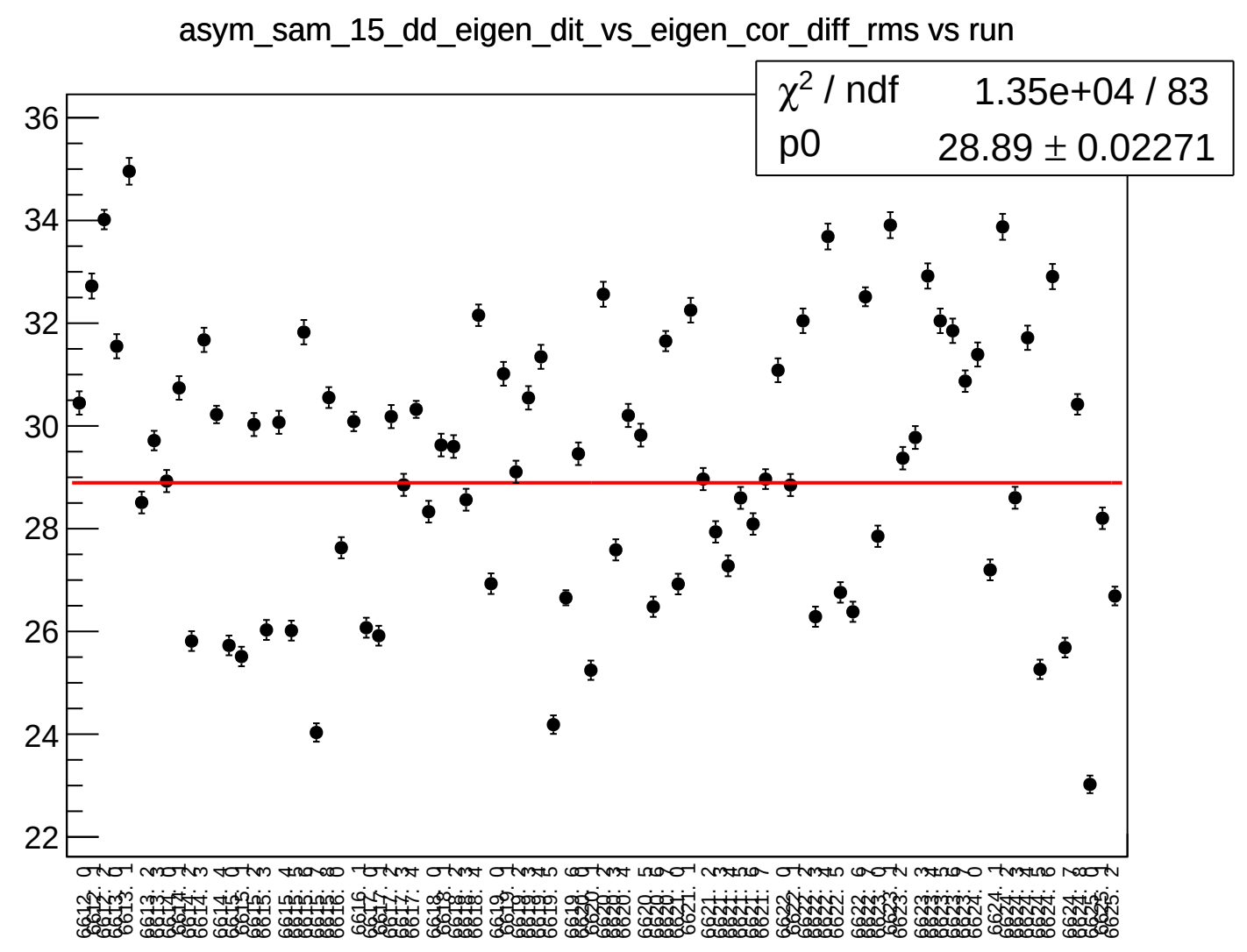

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.79 / 83
p0 0.03754 ± 0.03211
pull
Entries 84
Mean −135.5
Std Dev 0

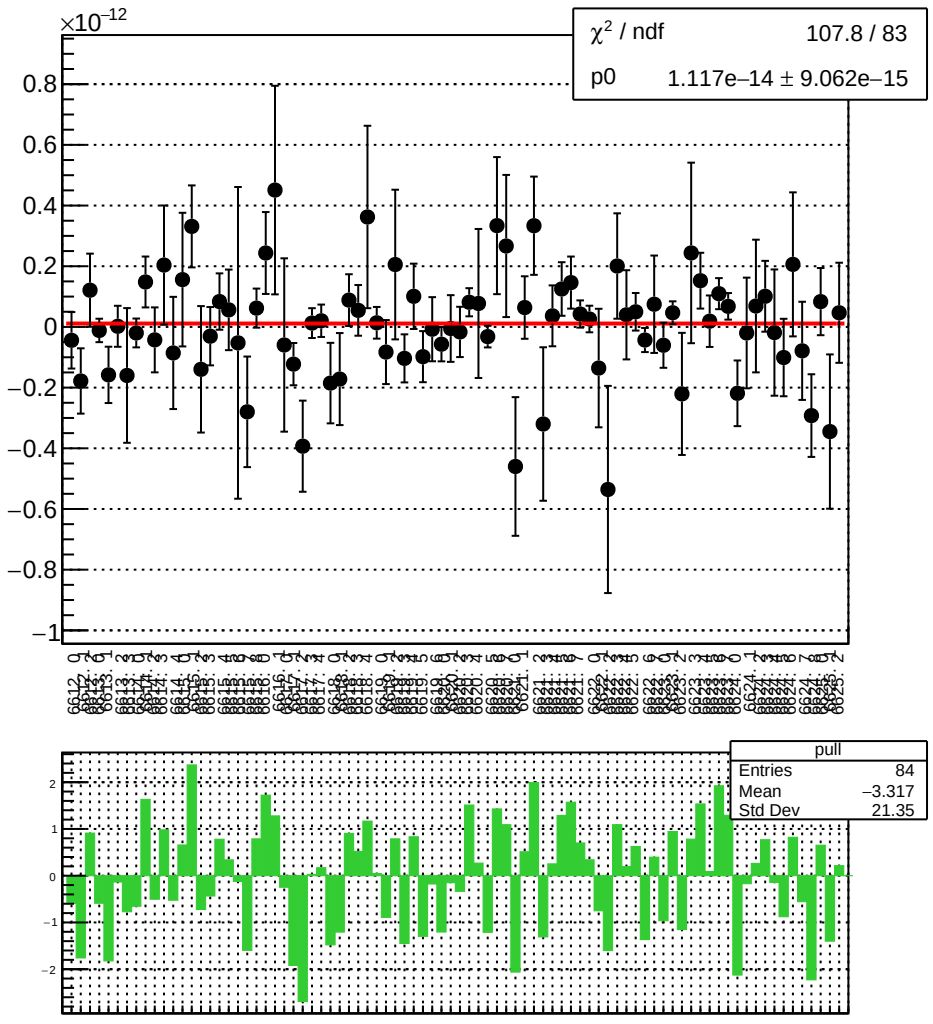

pull1D
Entries 84
Mean 0.002784
Std Dev 0.9372

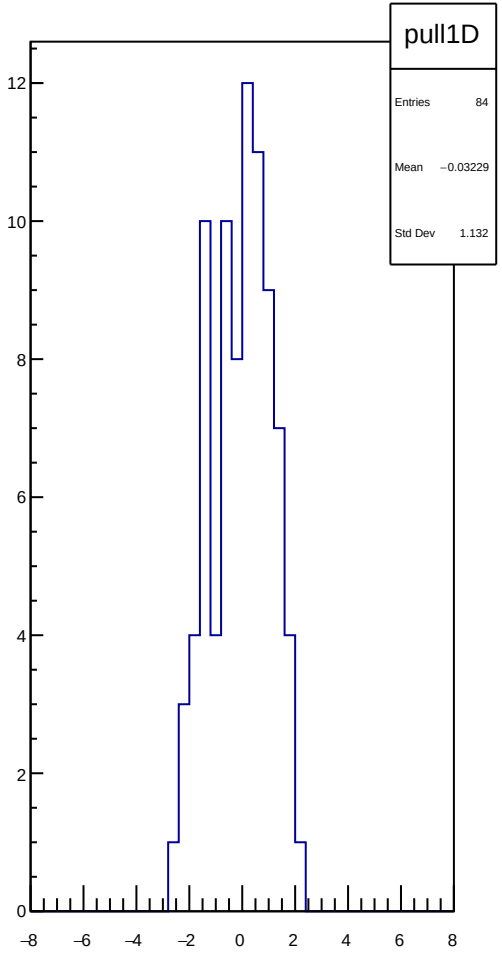

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.35e+04 / 83
p0 28.89 ± 0.02271
36
34
32
30
28
26
24
22

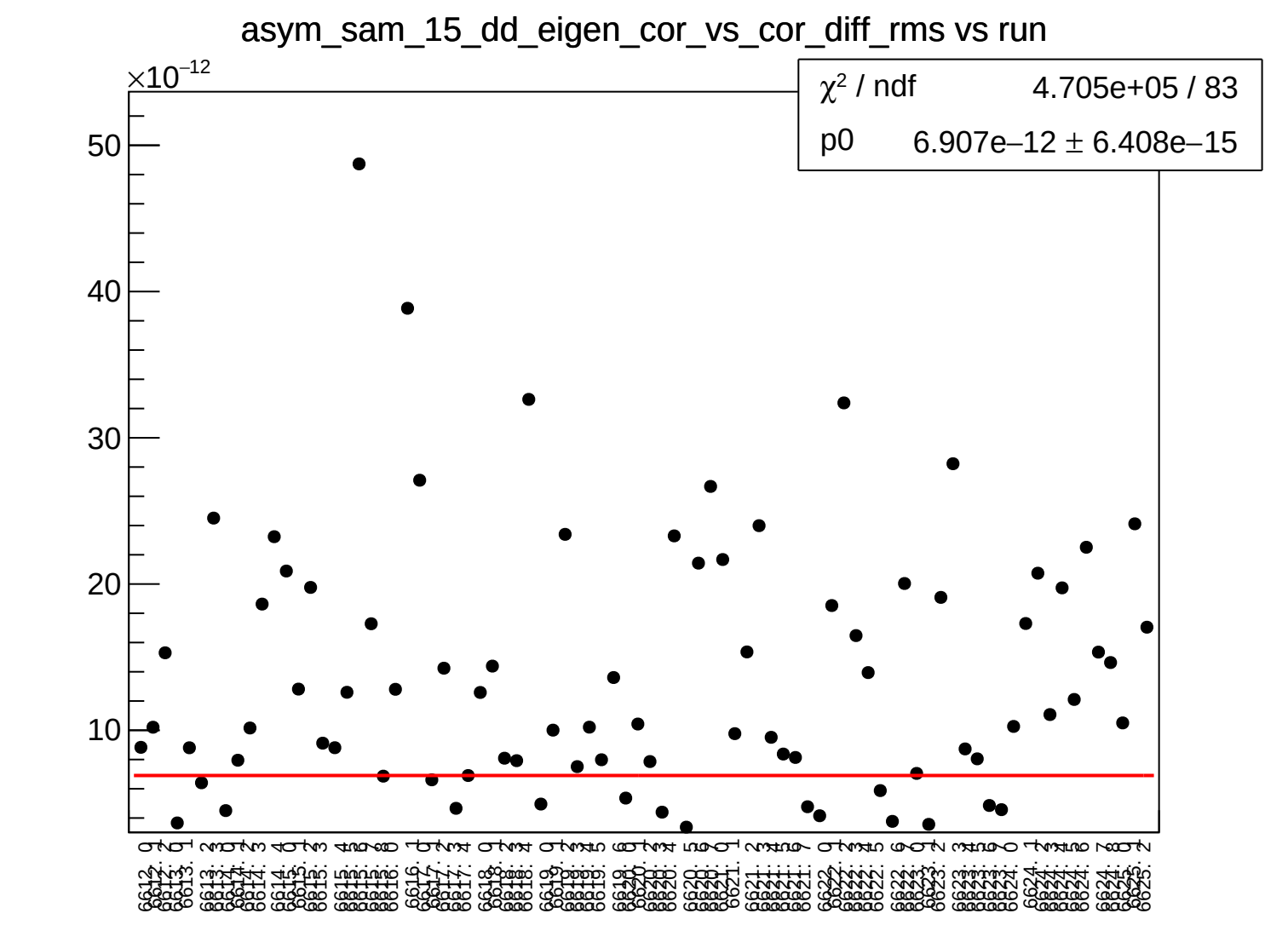

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.79 / 83
p0 0.03754 ± 0.03211
pull
Entries 84
Mean −135.5
Std Dev 0

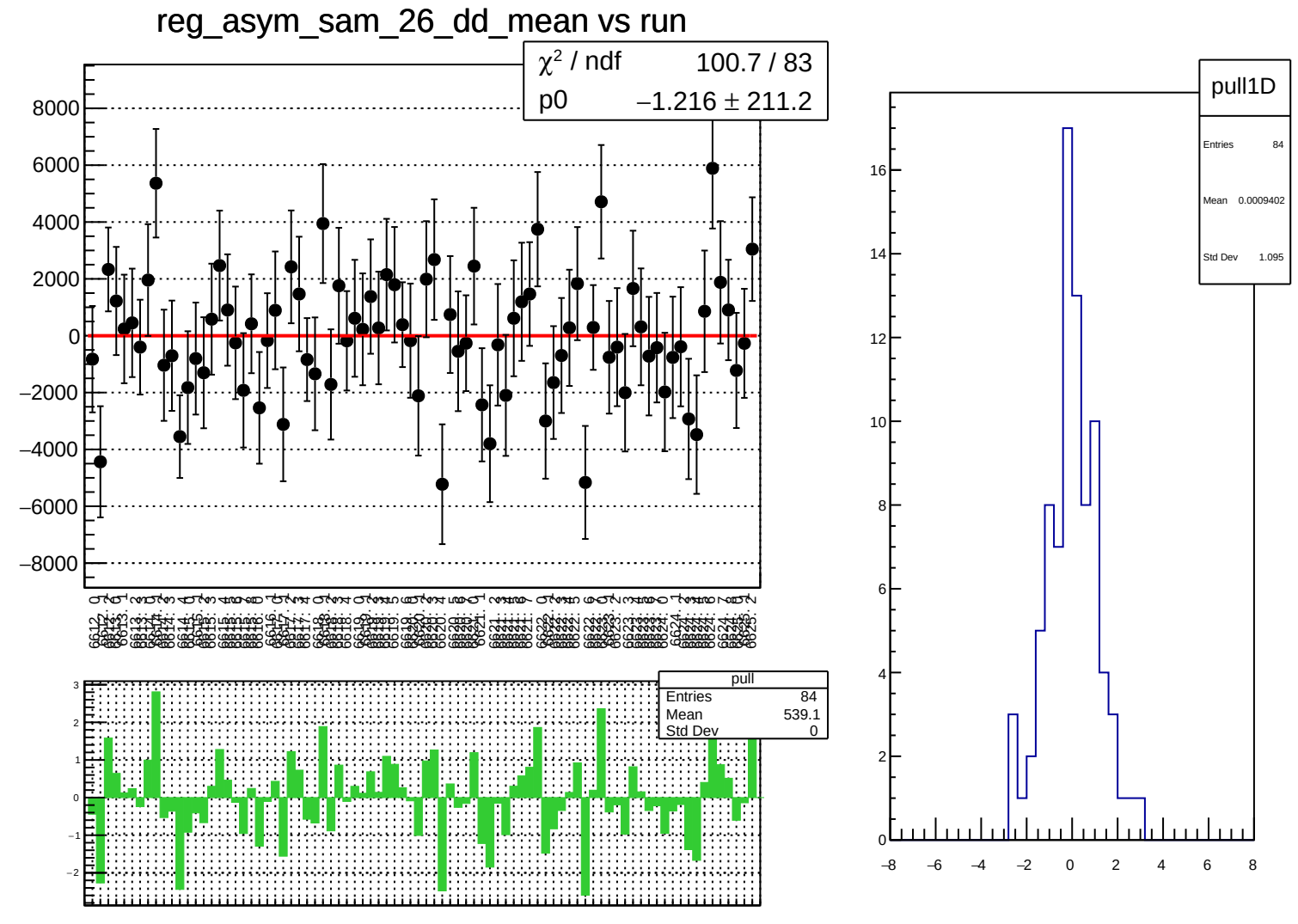

pull1D
Entries 84
Mean 0.002784
Std Dev 0.9372

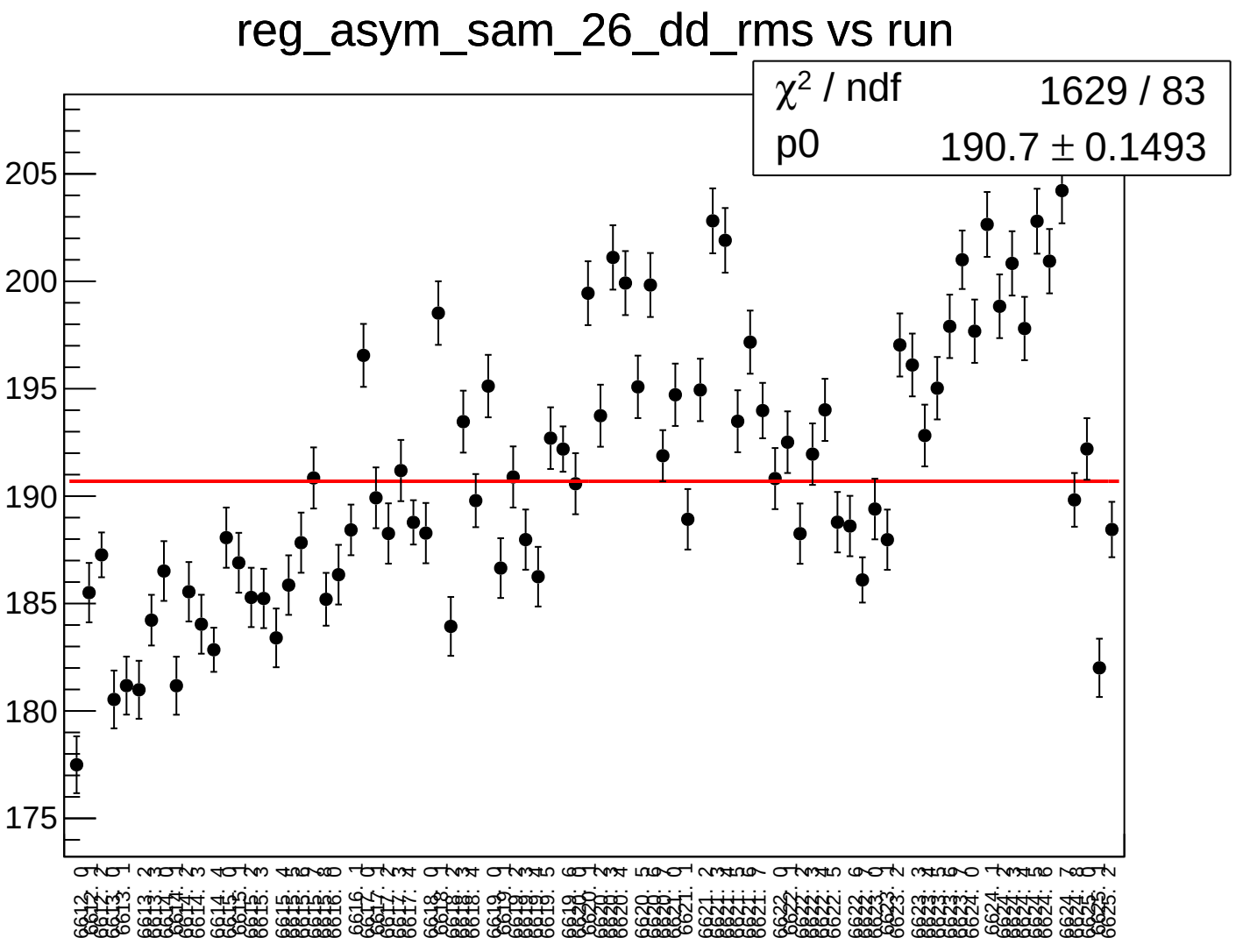

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.35e+04 / 83
p0 28.89 ± 0.02271
36
34
32
30
28
26
24
22

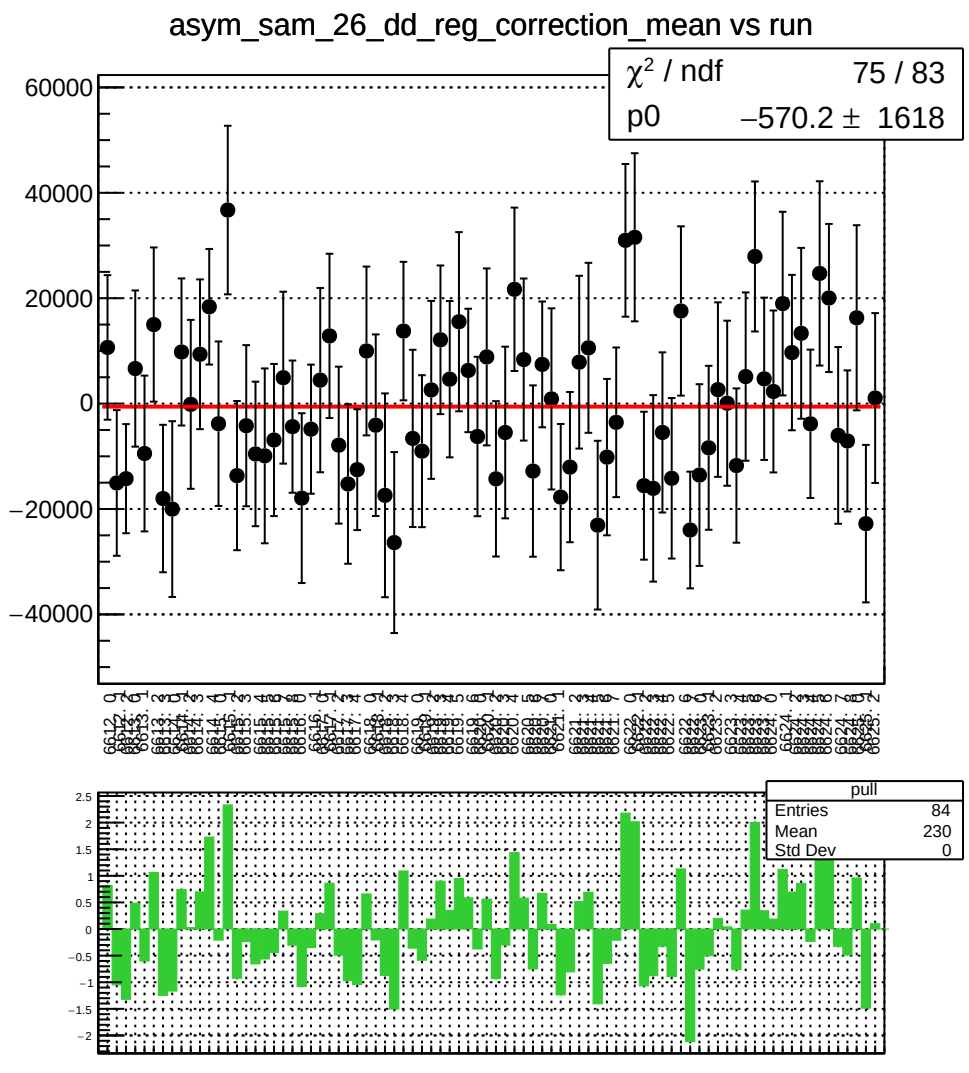

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.8 / 83
p0 1.117e−14 ± 9.062e−15
pull
Entries 84
Mean −3.317
Std Dev 21.35

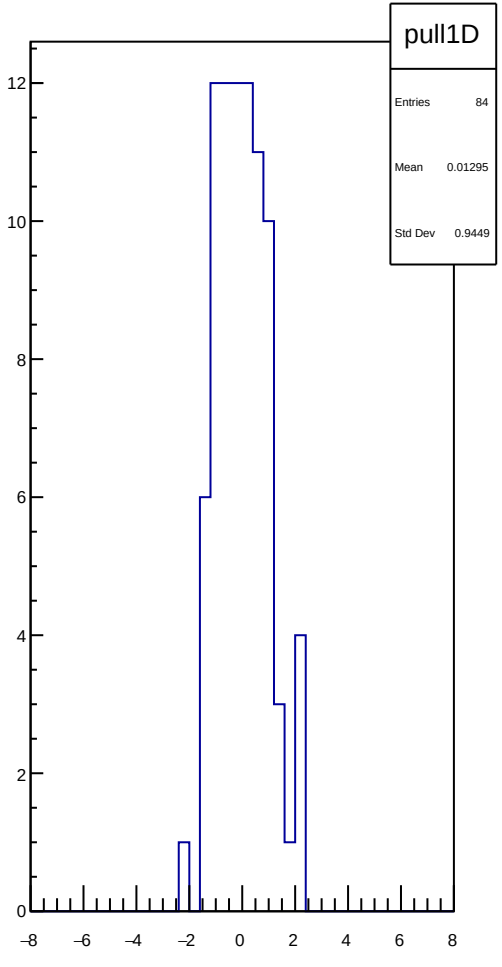

pull1D
Entries 84
Mean −0.03229
Std Dev 1.132

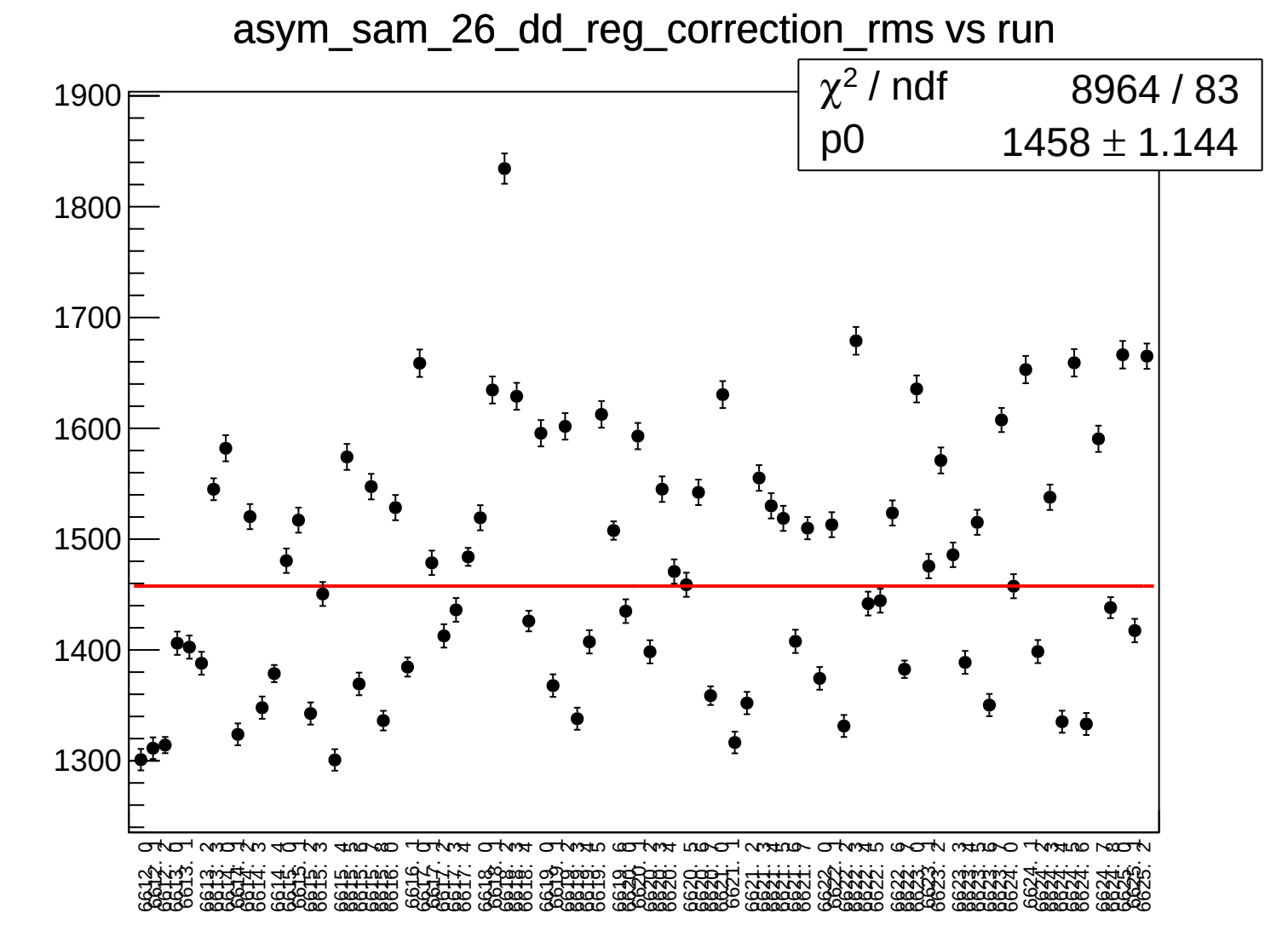

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.705e+05 / 83
p0 6.907e−12 ± 6.408e−15
50
40
30
20
10

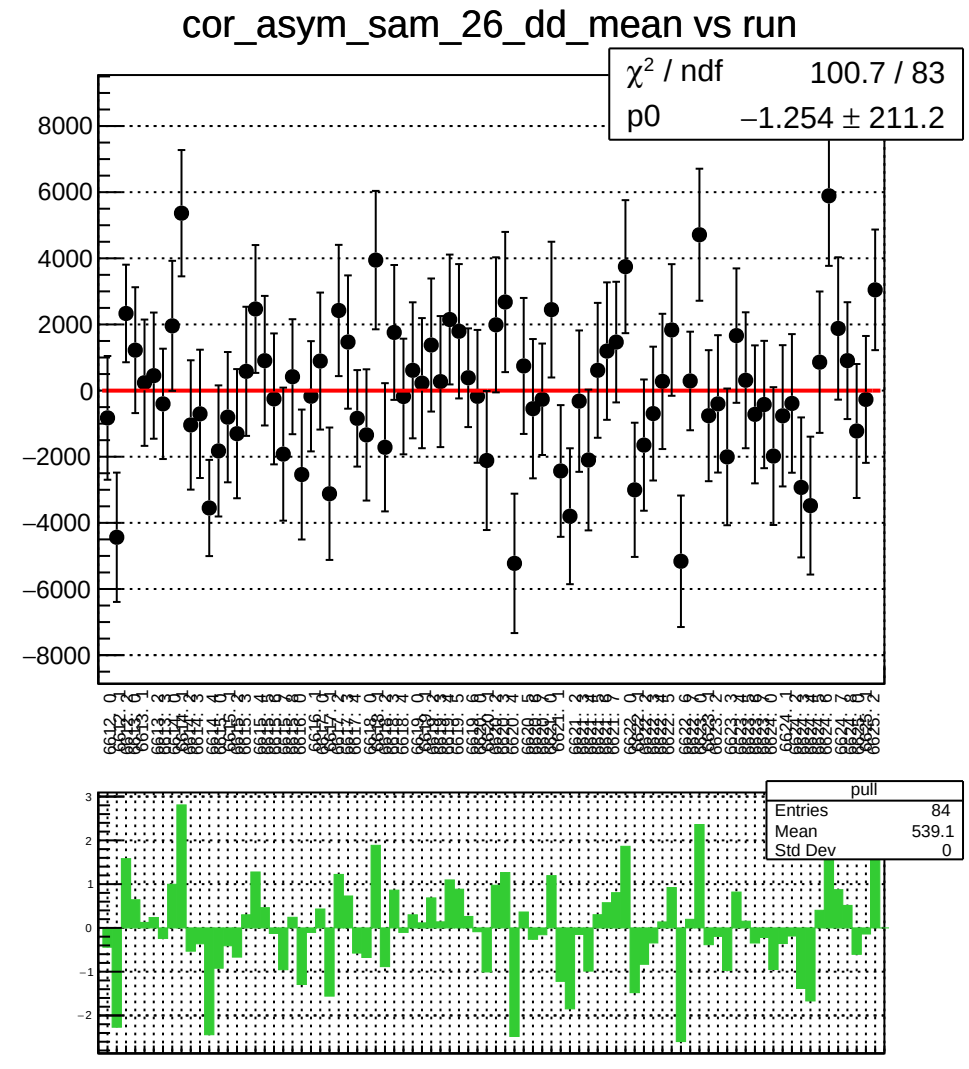

reg_asym_sam_26_dd_mean vs run
χ² / ndf 100.7 / 83
p0 −1.216 ± 211.2
pull
Entries 84
Mean 539.1
Std Dev 0
pull1D
Entries 84
Mean 0.0009402
Std Dev 1.095

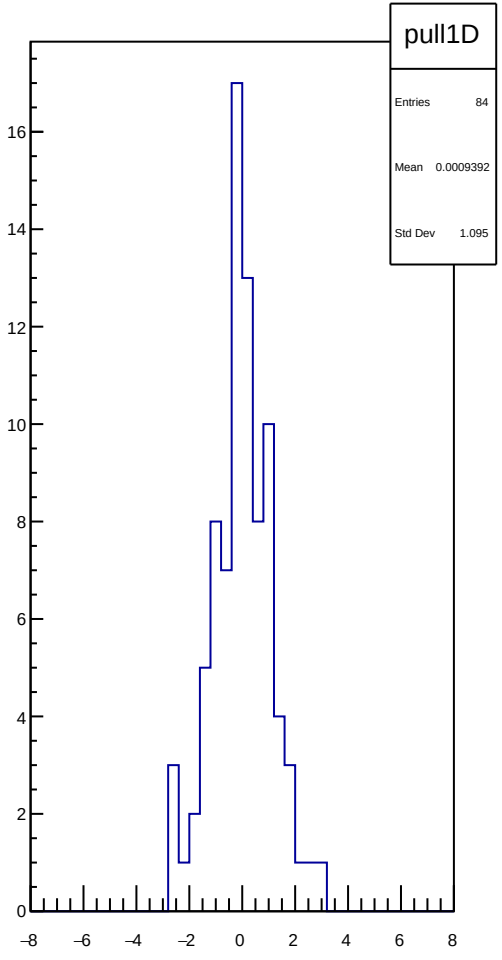

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1629 / 83
p0 190.7 ± 0.1493
205
200
195
190
185
180
175

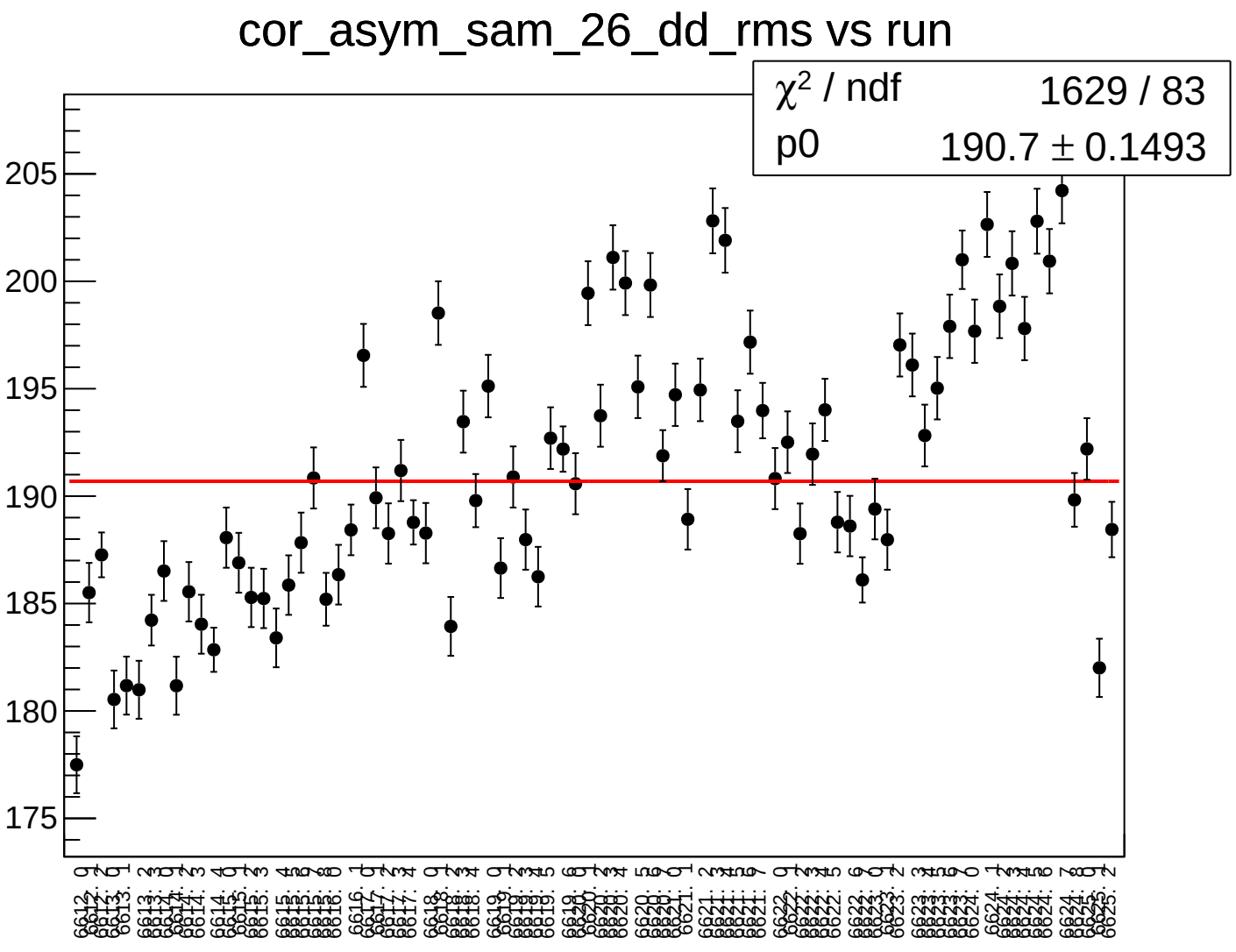

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 75 / 83
p0 −570.2 ± 1618
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 230
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

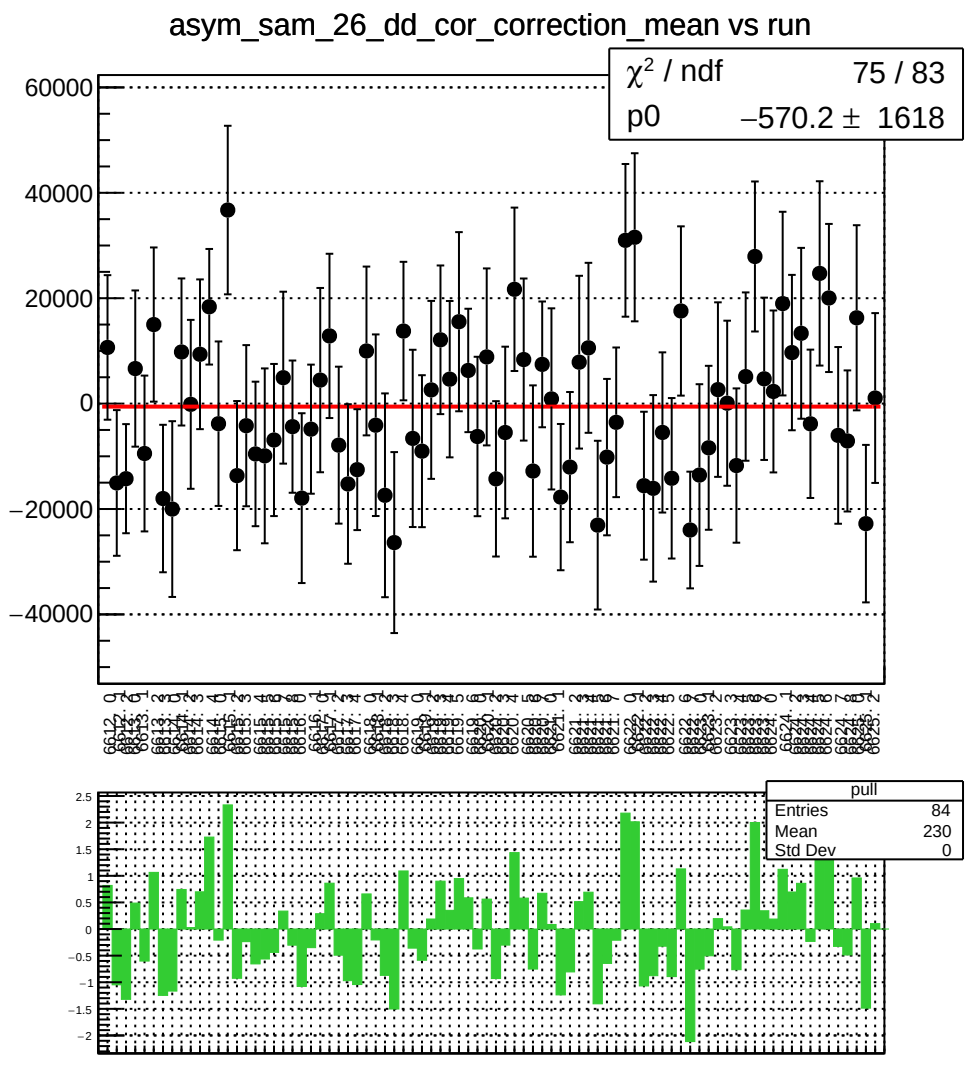

pull1D
Entries 84
Mean 0.01295
Std Dev 0.9449
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

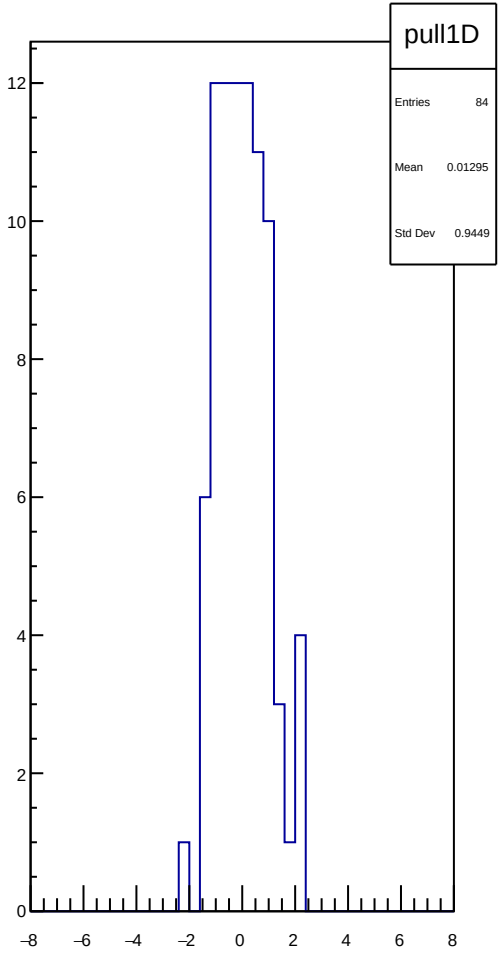

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 8964 / 83
p0 1458 ± 1.144
1900
1800
1700
1600
1500
1400
1300

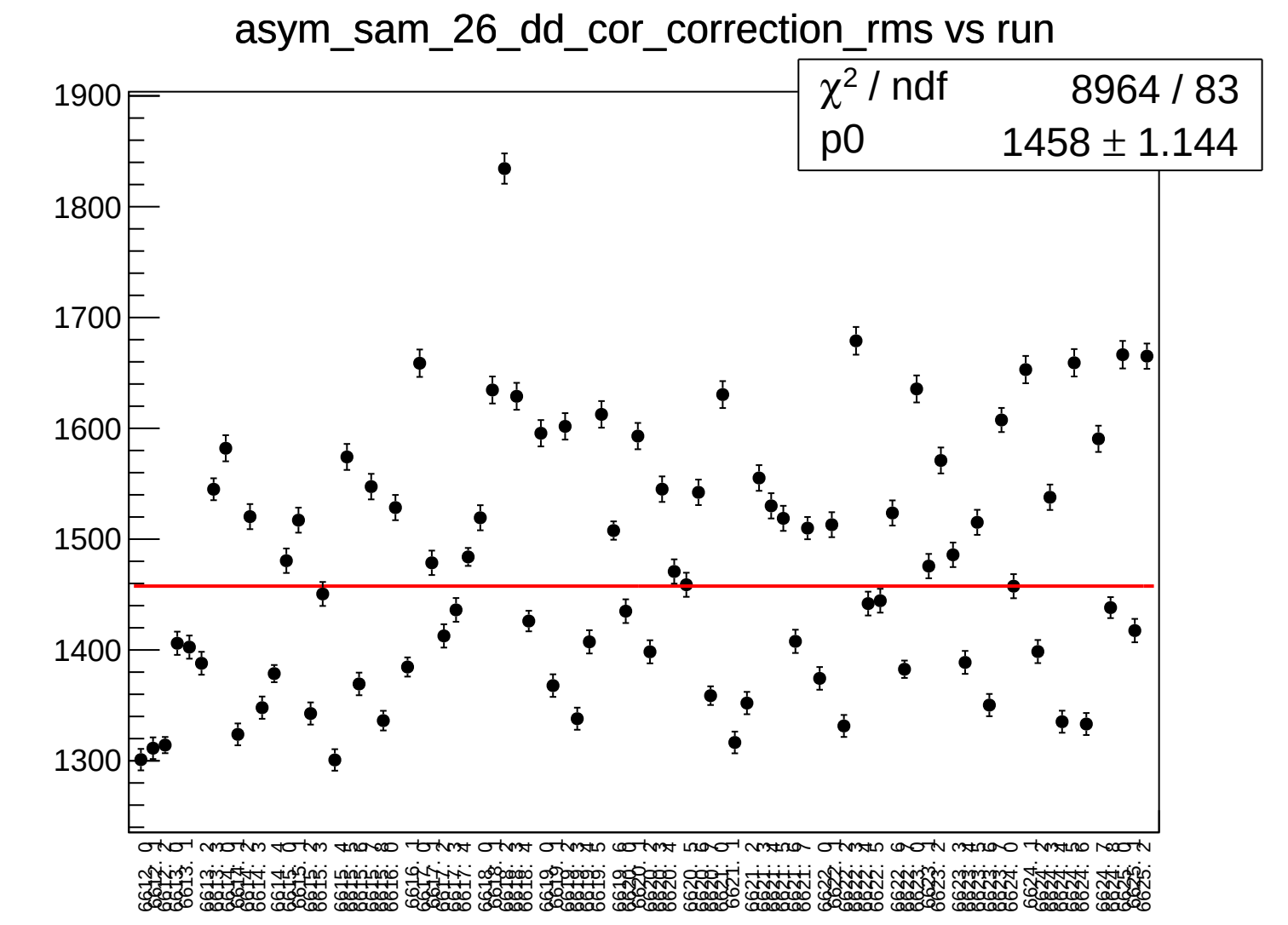

cor_asym_sam_26_dd_mean vs run
χ² / ndf 100.7 / 83
p0 −1.254 ± 211.2
pull
Entries 84
Mean 539.1
Std Dev 0

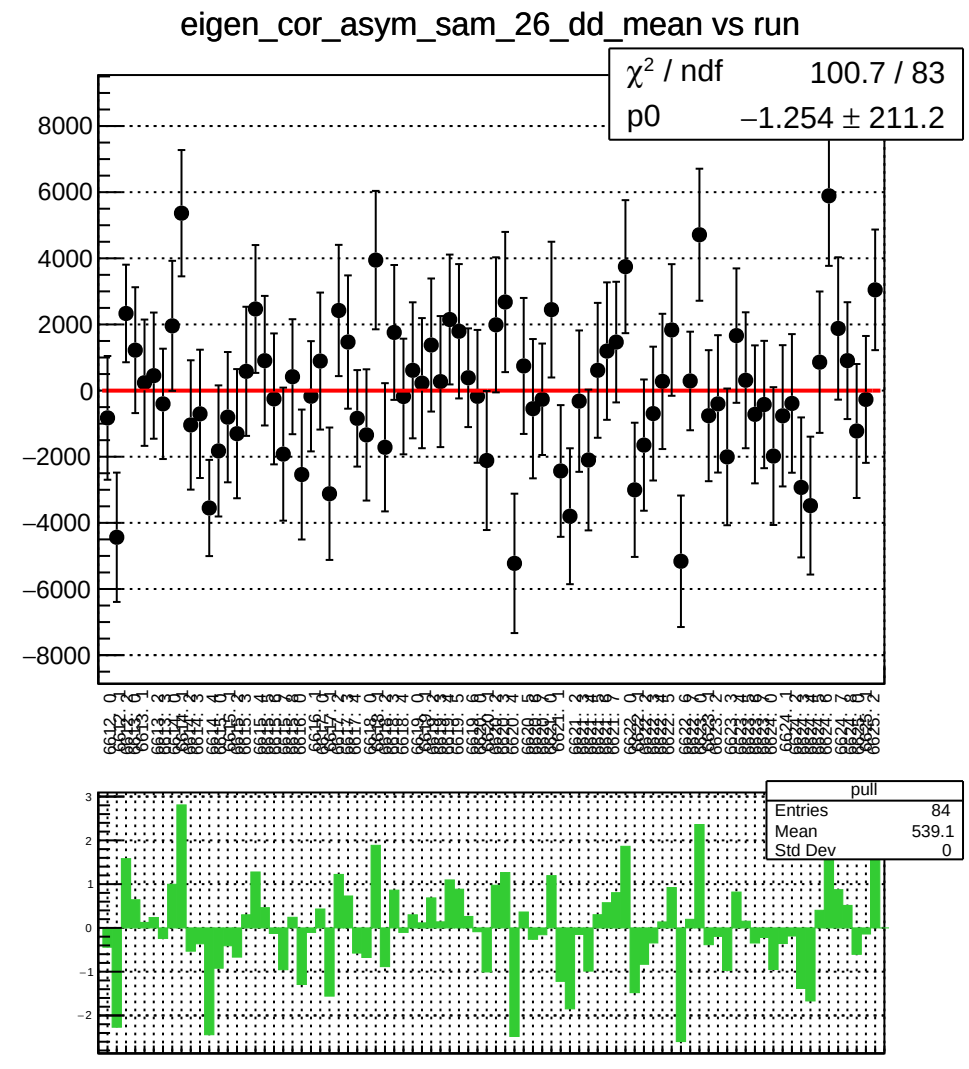

pull1D
Entries 84
Mean 0.0009392
Std Dev 1.095

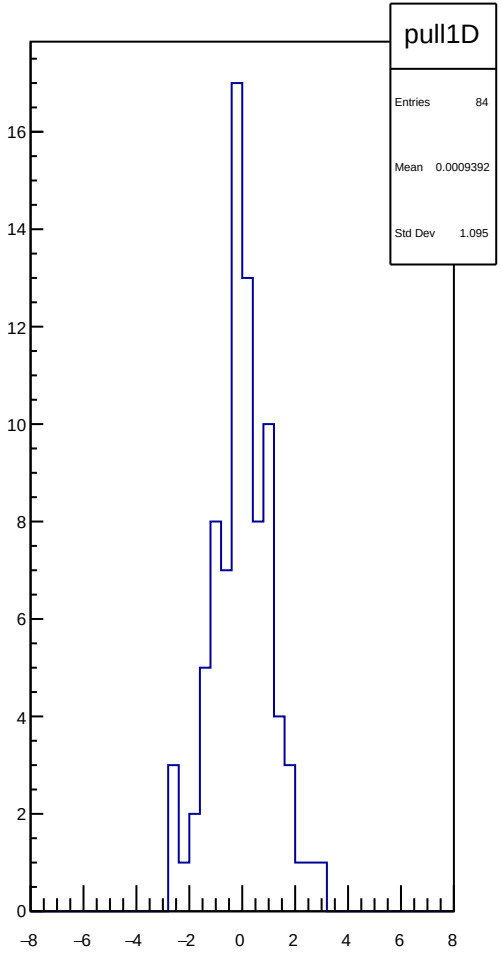

cor_asym_sam_26_dd_rms vs run
χ² / ndf 1629 / 83
p0 190.7 ± 0.1493
205
200
195
190
185
180
175

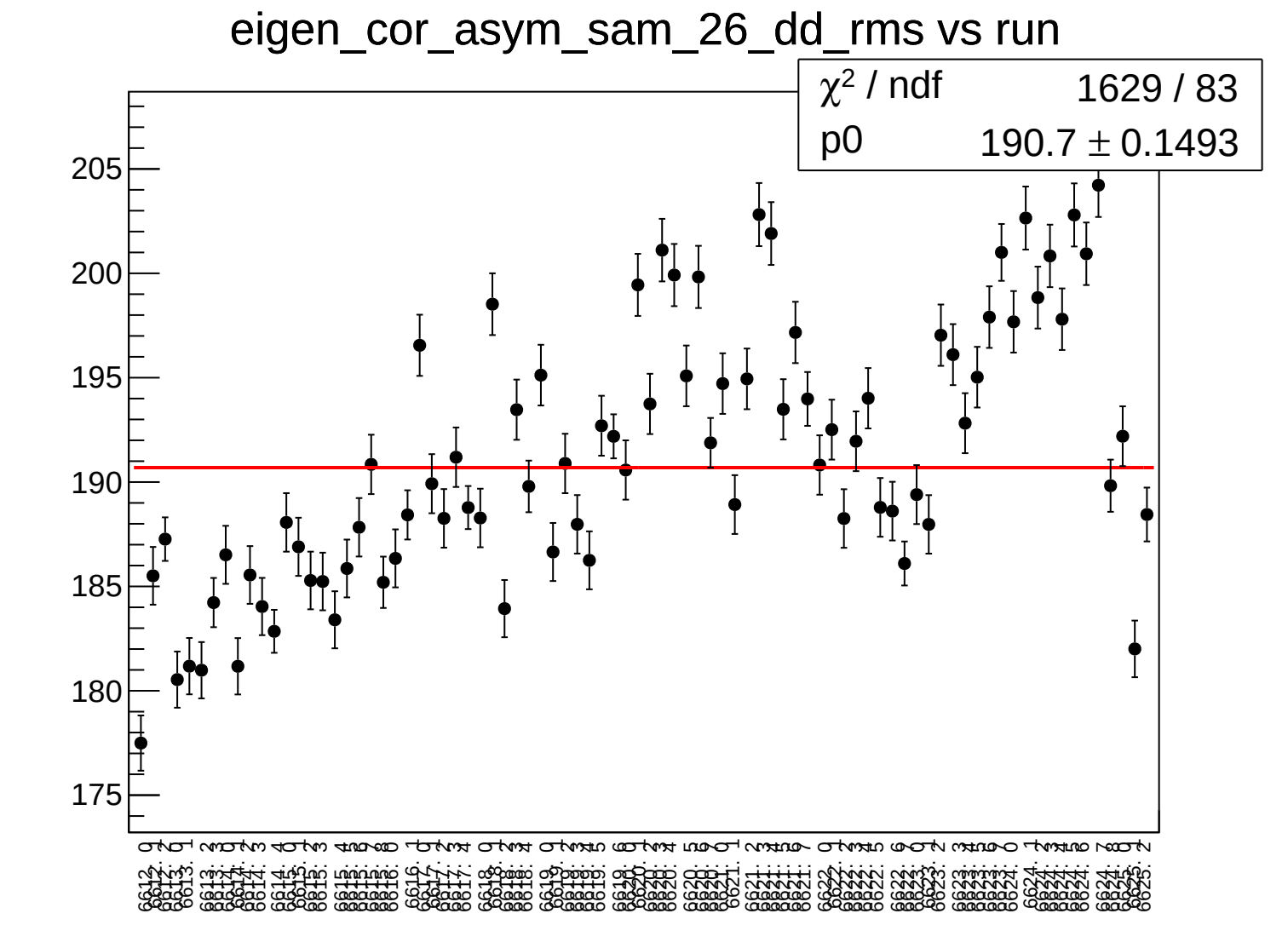

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 75 / 83
p0 −570.2 ± 1618
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 230
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

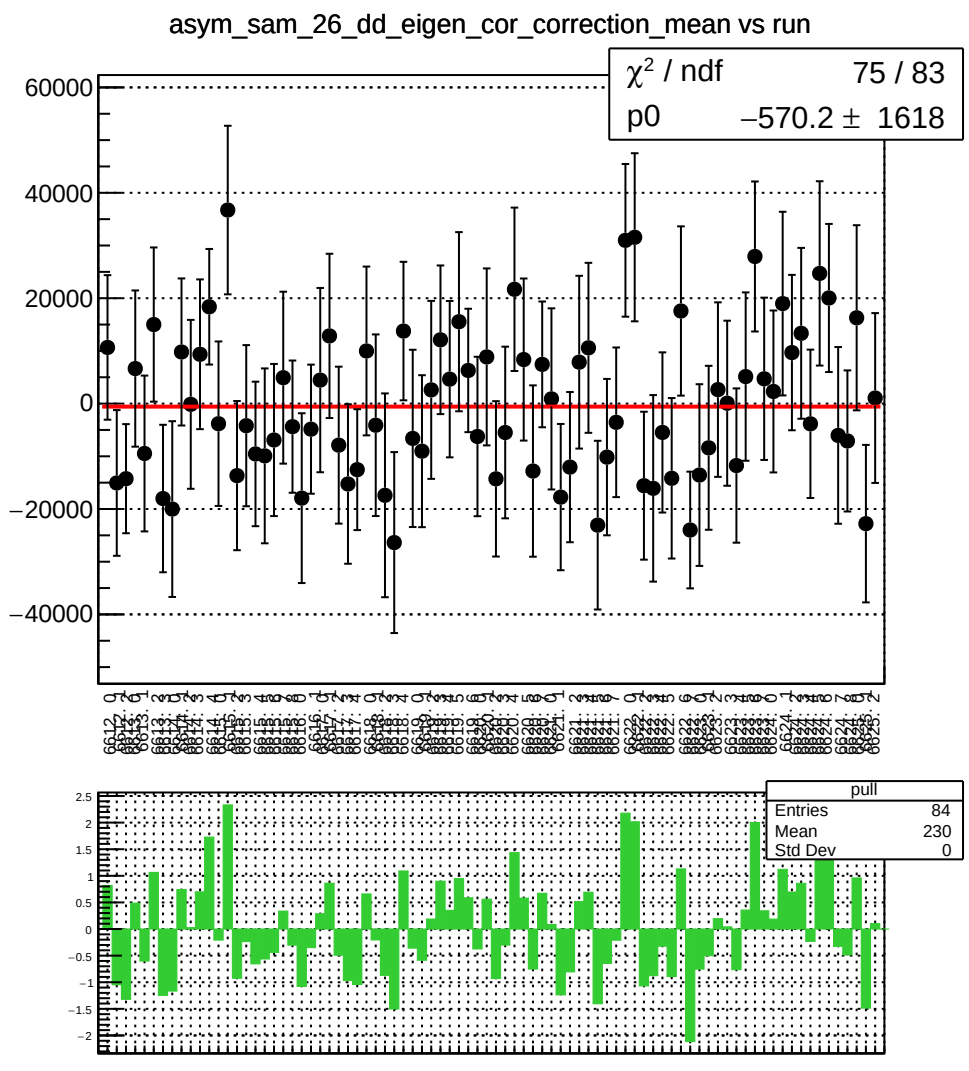

pull1D
Entries 84
Mean 0.01295
Std Dev 0.9449
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

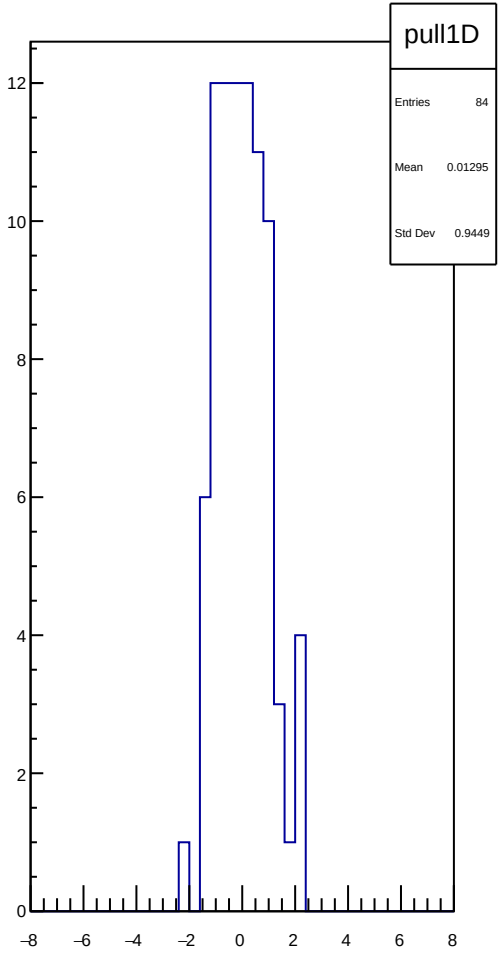

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 8964 / 83
p0 1458 ± 1.144
1900
1800
1700
1600
1500
1400
1300

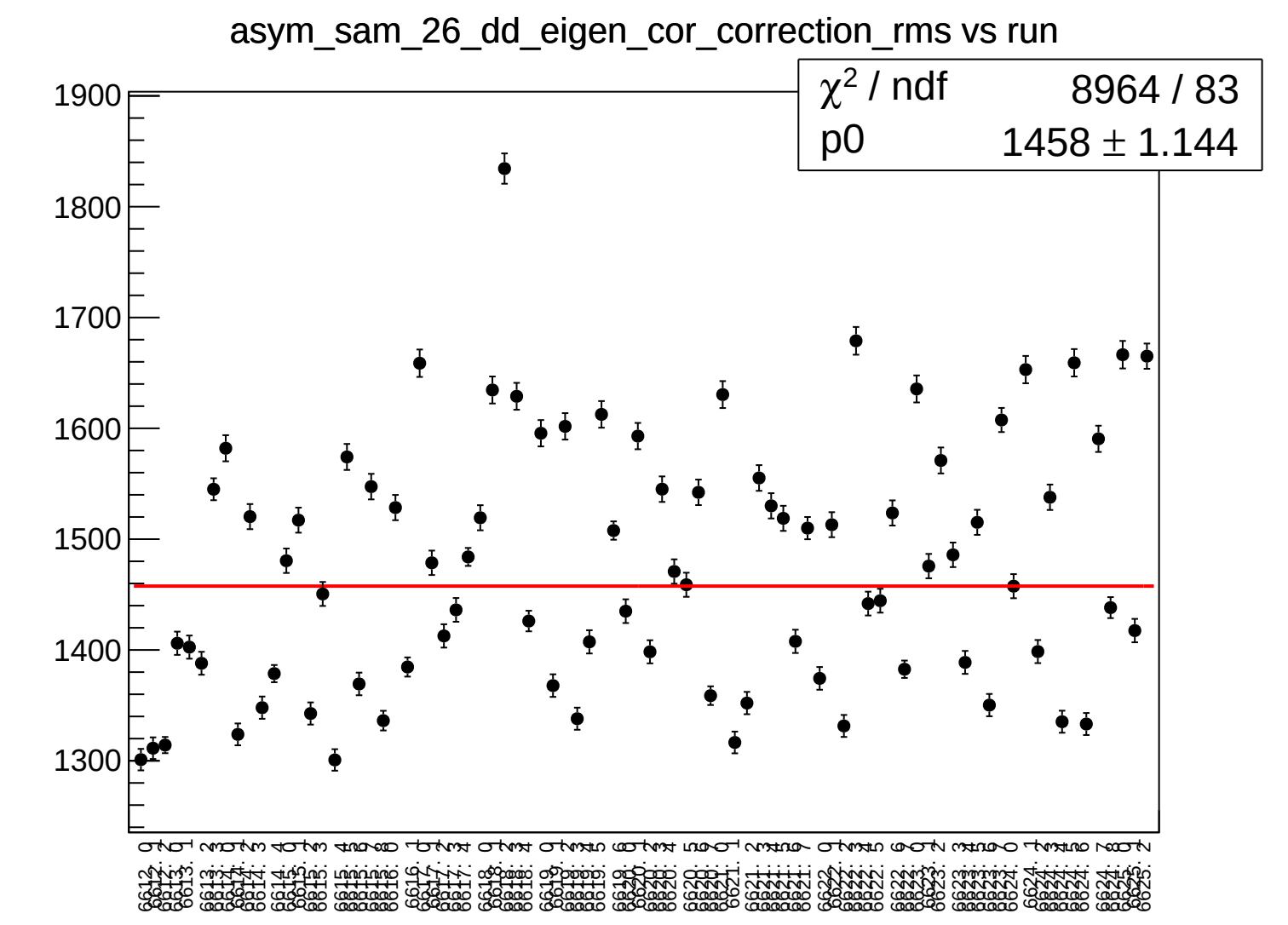

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 100.7 / 83
p0 −1.254 ± 211.2
pull
Entries 84
Mean 539.1
Std Dev 0

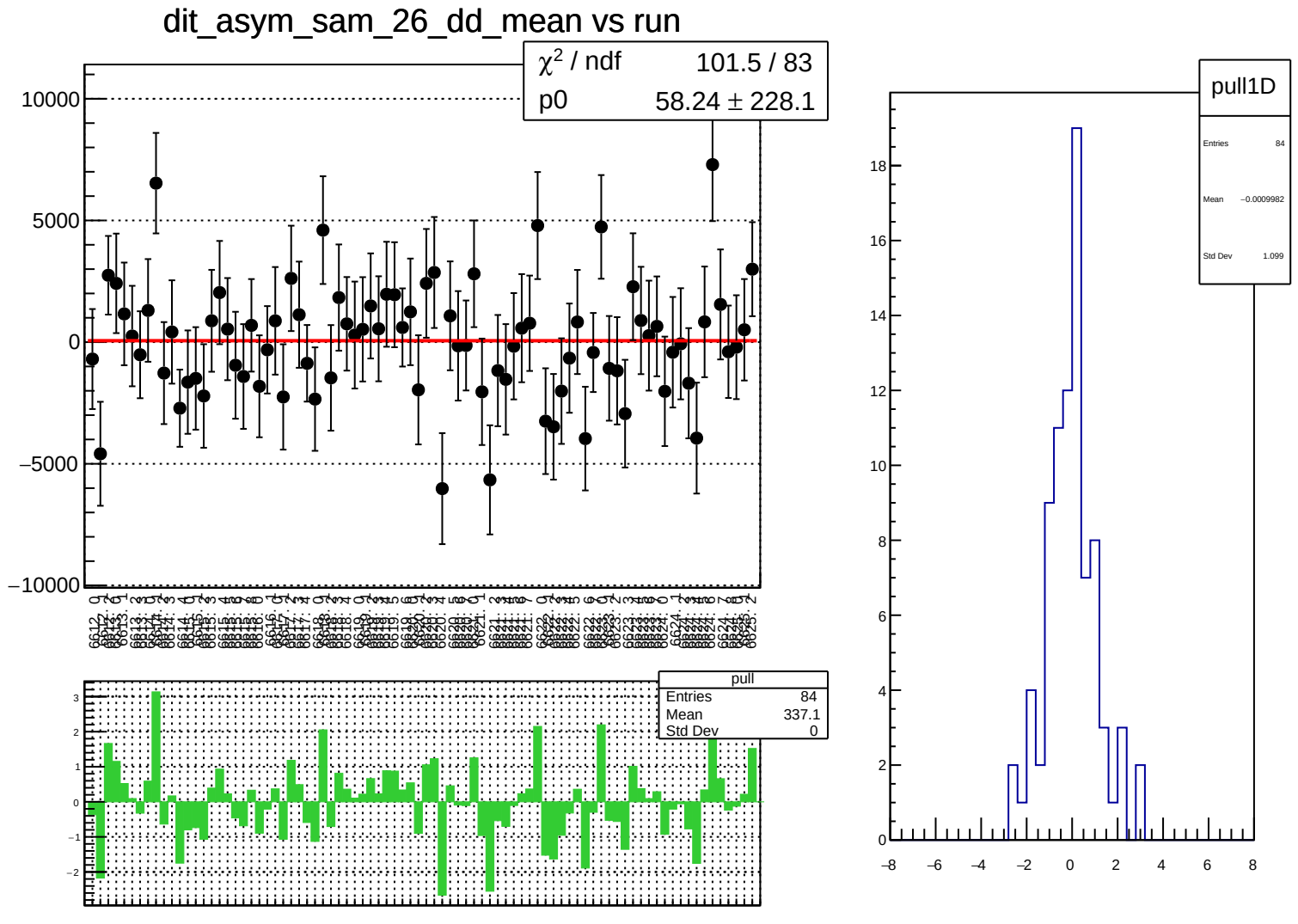

pull1D
Entries 84
Mean 0.0009392
Std Dev 1.095

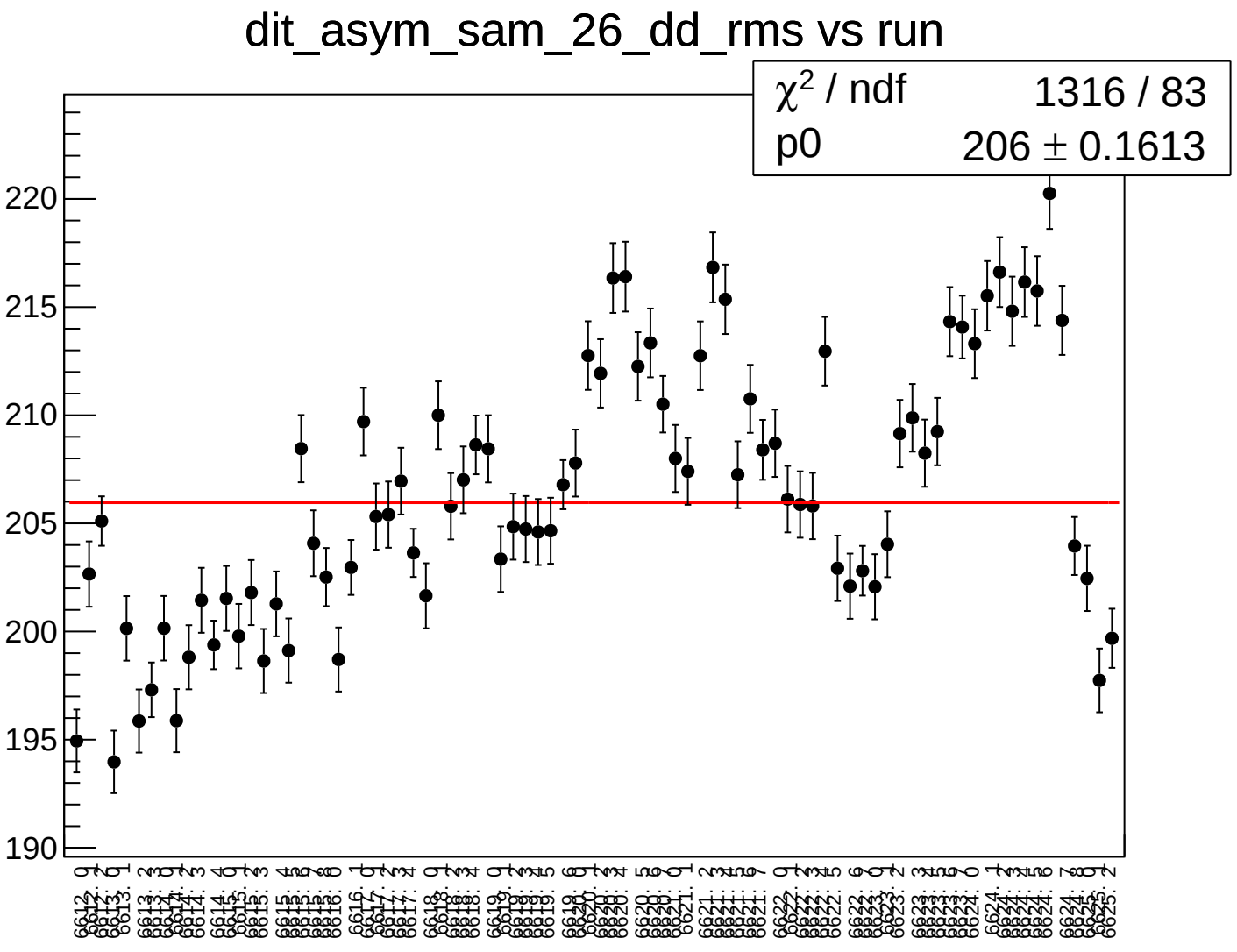

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1629 / 83
p0 190.7 ± 0.1493
205
200
195
190
185
180
175

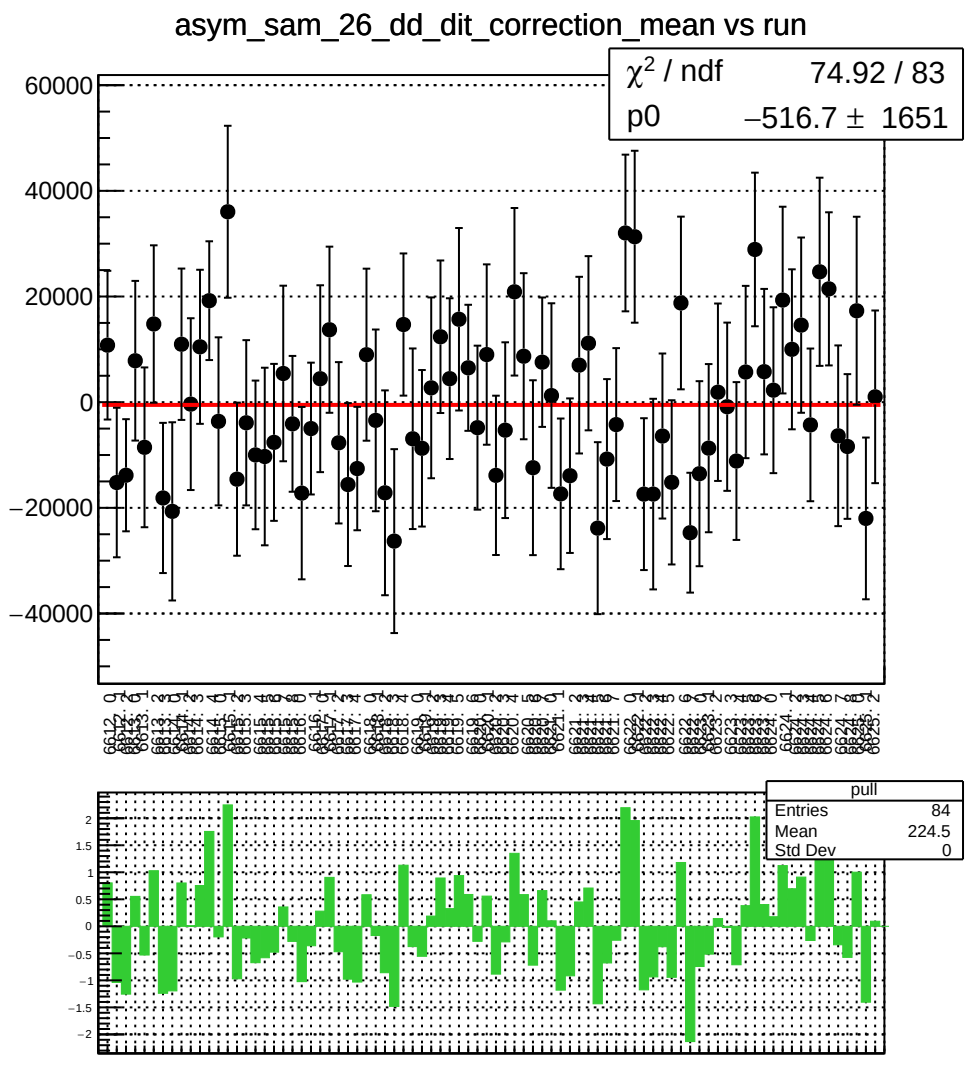

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 75 / 83
p0 −570.2 ± 1618
pull
Entries 84
Mean 230
Std Dev 0

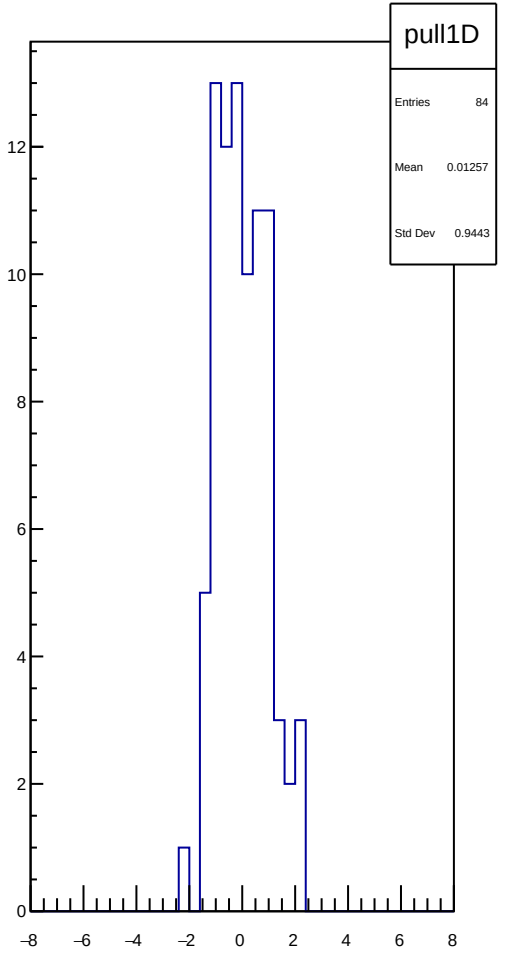

pull1D
Entries 84
Mean 0.01295
Std Dev 0.9449

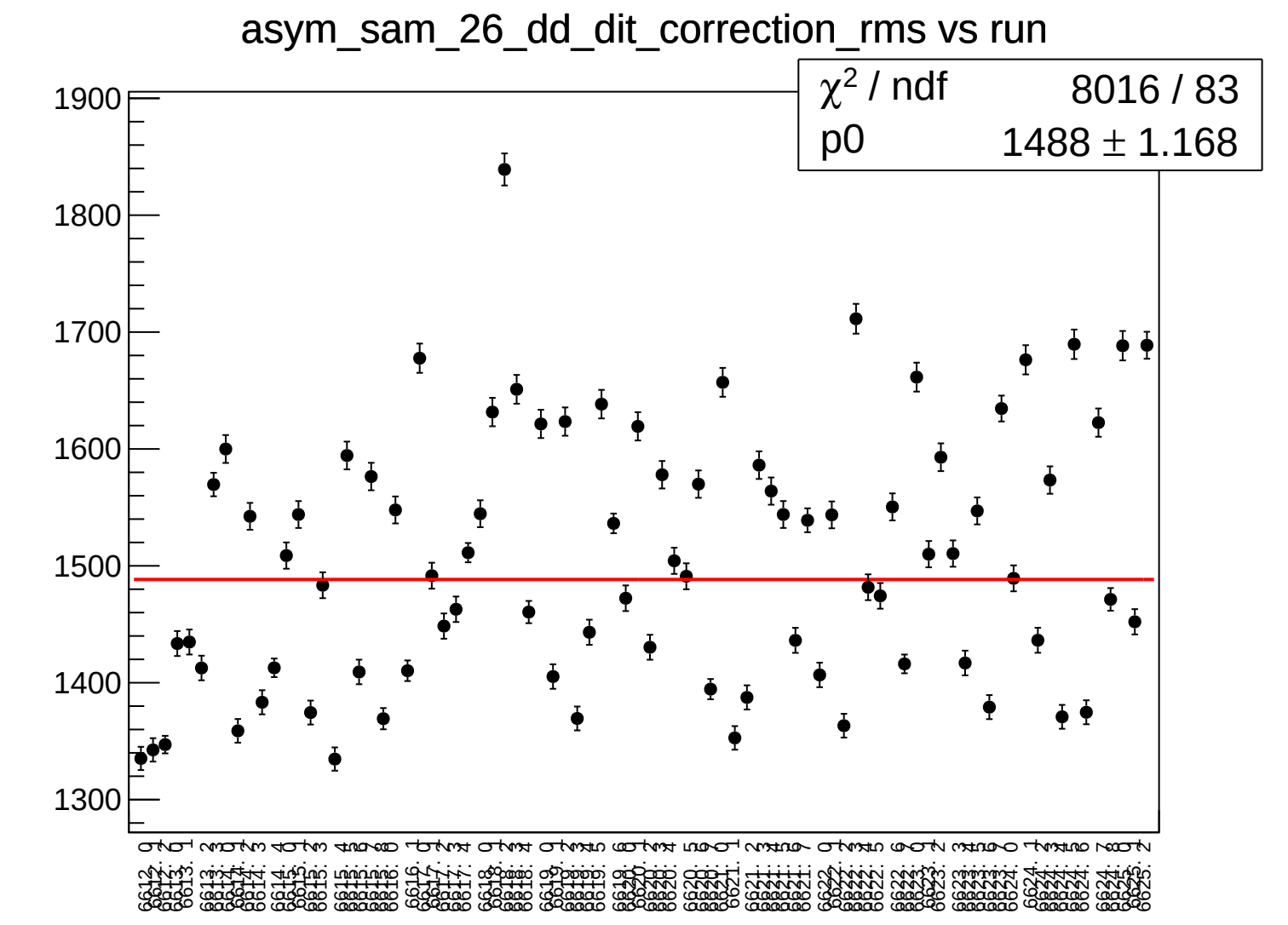

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 8964 / 83
p0 1458 ± 1.144
1900
1800
1700
1600
1500
1400
1300

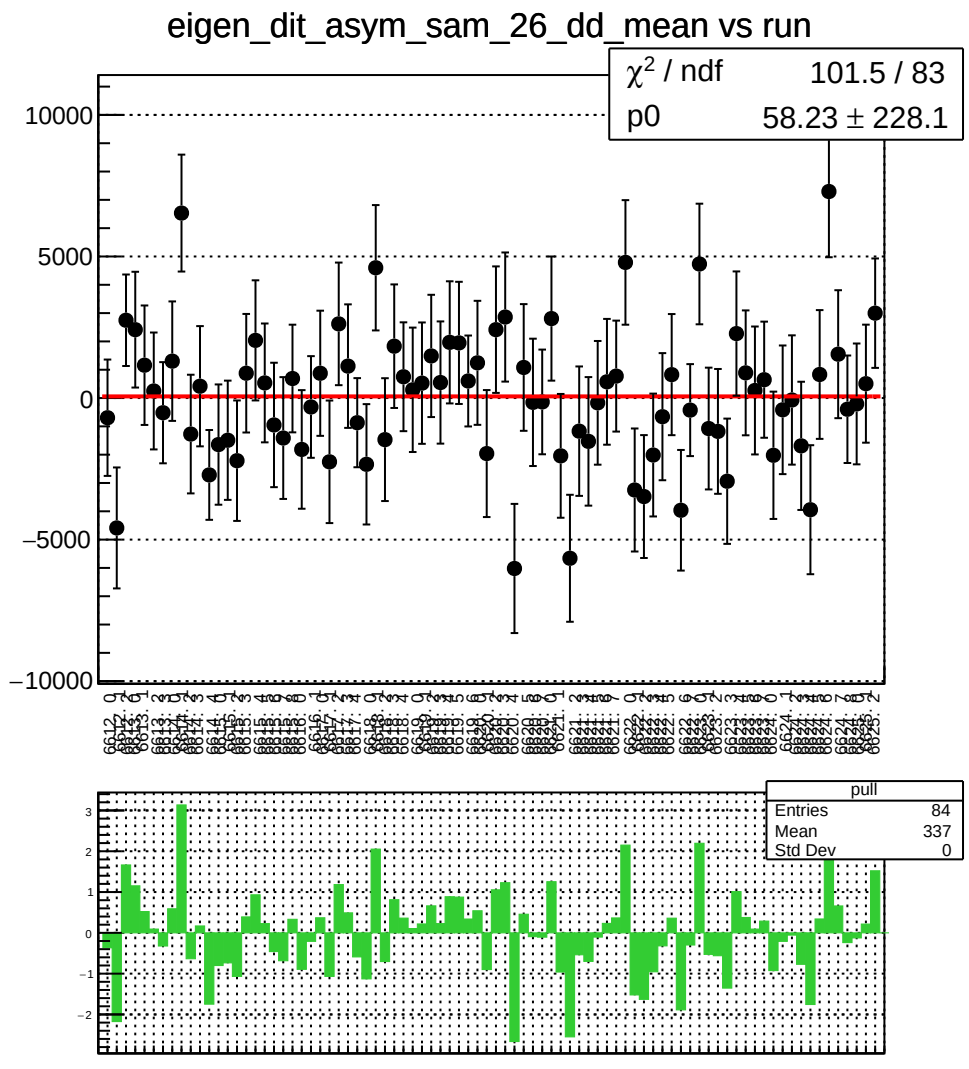

dit_asym_sam_26_dd_mean vs run
χ² / ndf 101.5 / 83
p0 58.24 ± 228.1
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 337.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.0009982
Std Dev 1.099
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

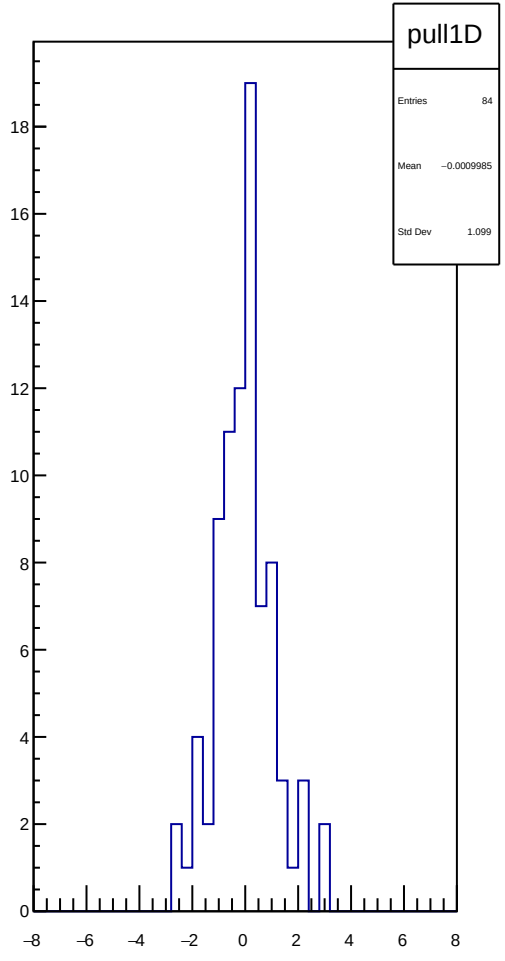

dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 1316 / 83
p0 206 ± 0.1613
220
215
210
205
200
195
190

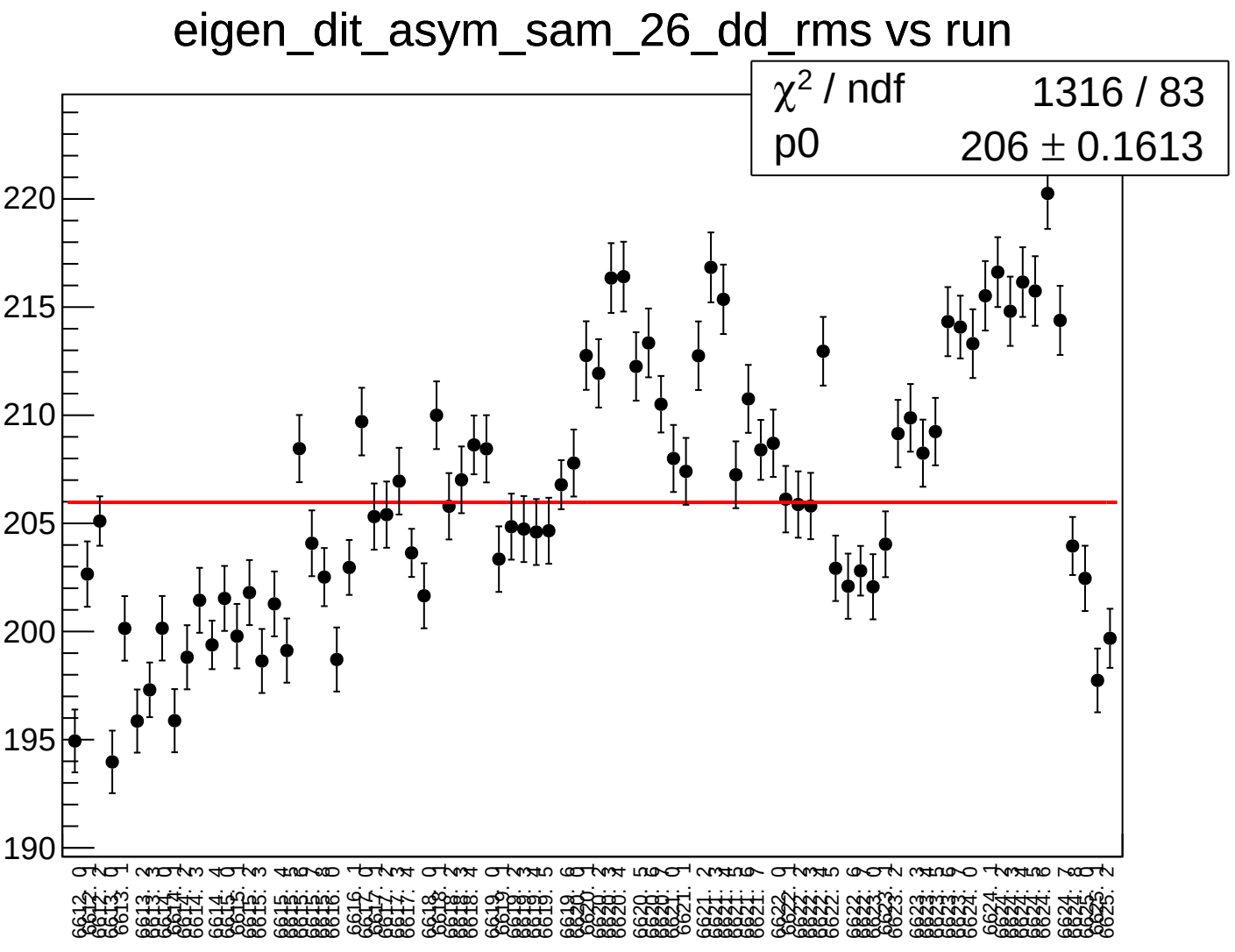

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 74.92 / 83
p0 −516.7 ± 1651
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 224.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

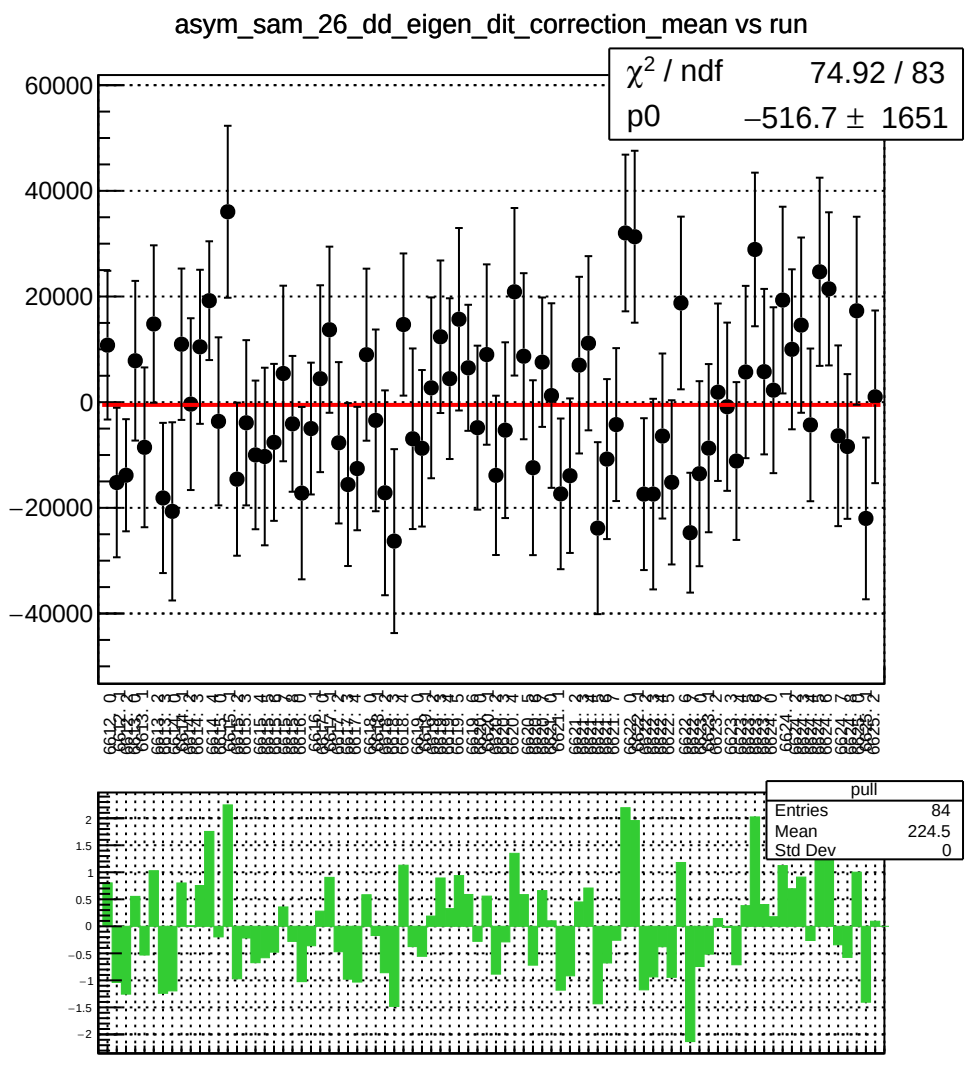

pull1D
Entries 84
Mean 0.01257
Std Dev 0.9443
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

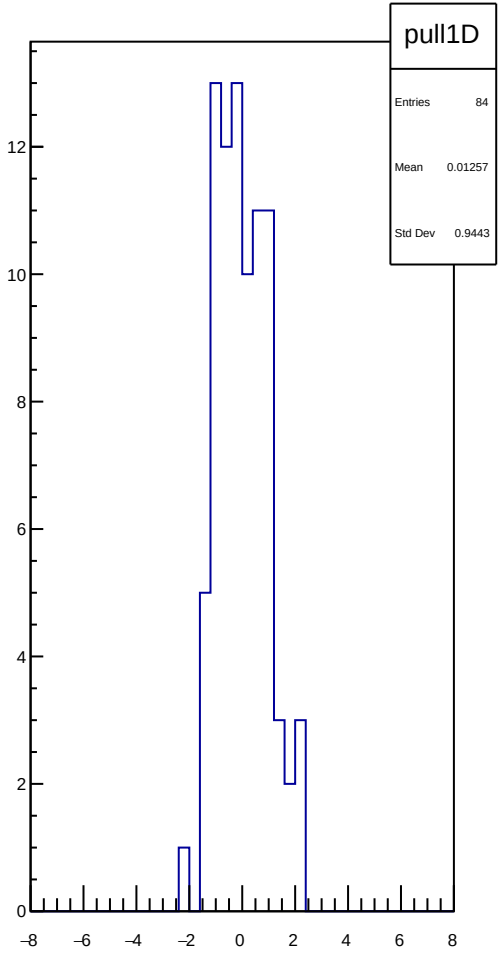

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 8016 / 83
p0 1488 ± 1.168
1900
1800
1700
1600
1500
1400
1300

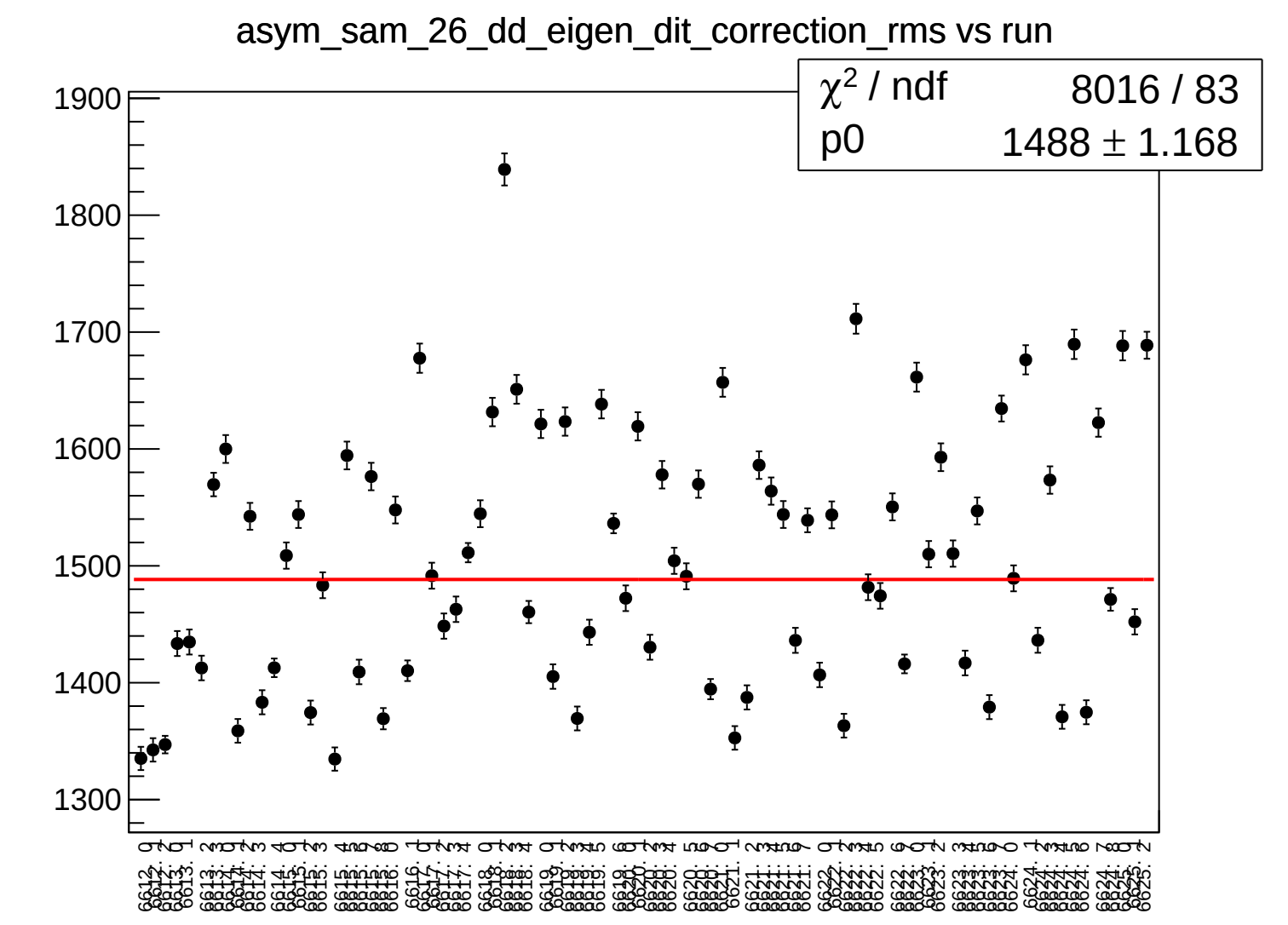

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 101.5 / 83
p0 58.23 ± 228.1
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 337
Std Dev 0
3
2
1
0
−1
−2

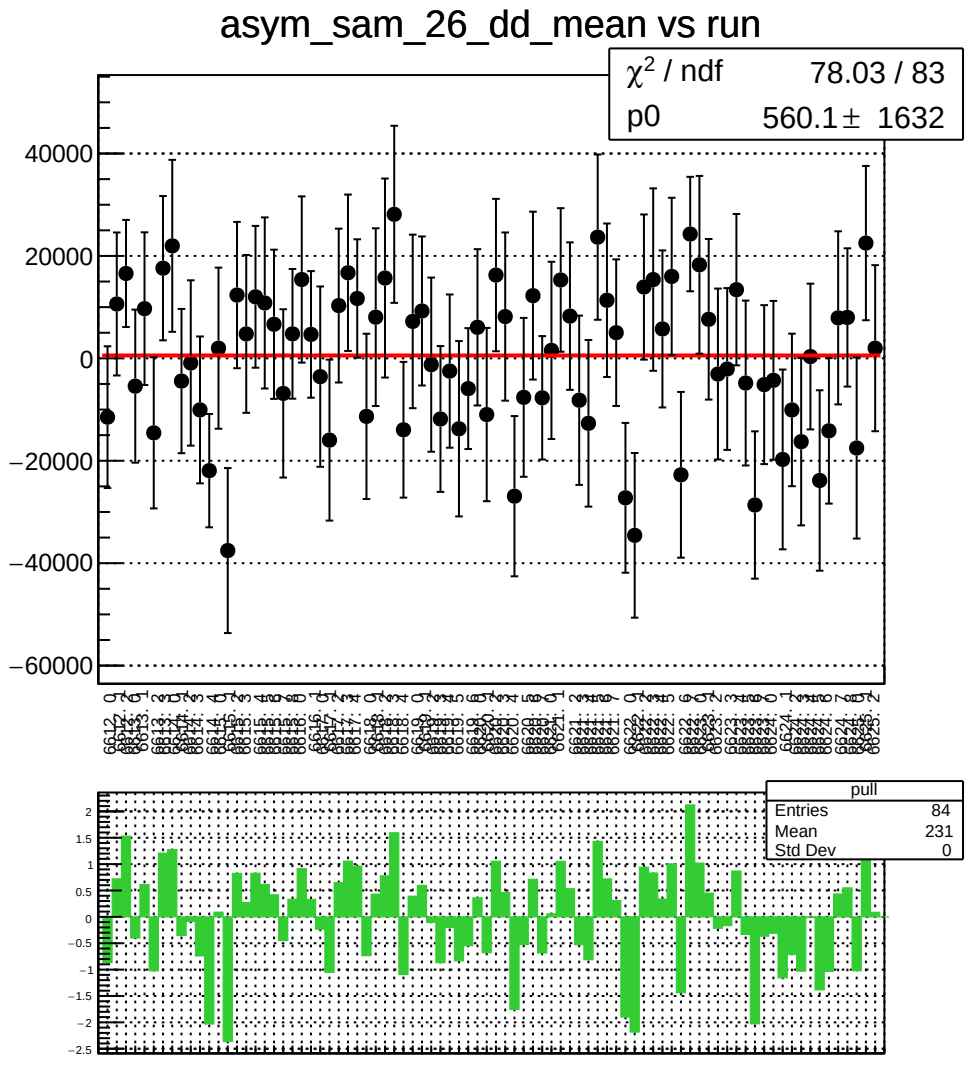

pull1D
Entries 84
Mean −0.0009985
Std Dev 1.099
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

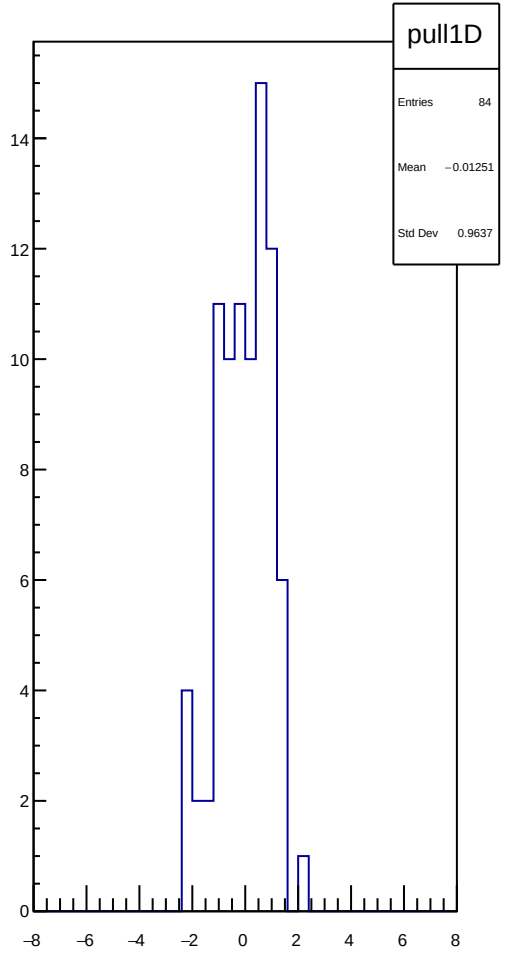

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1316 / 83
p0 206 ± 0.1613
220
215
210
205
200
195
190

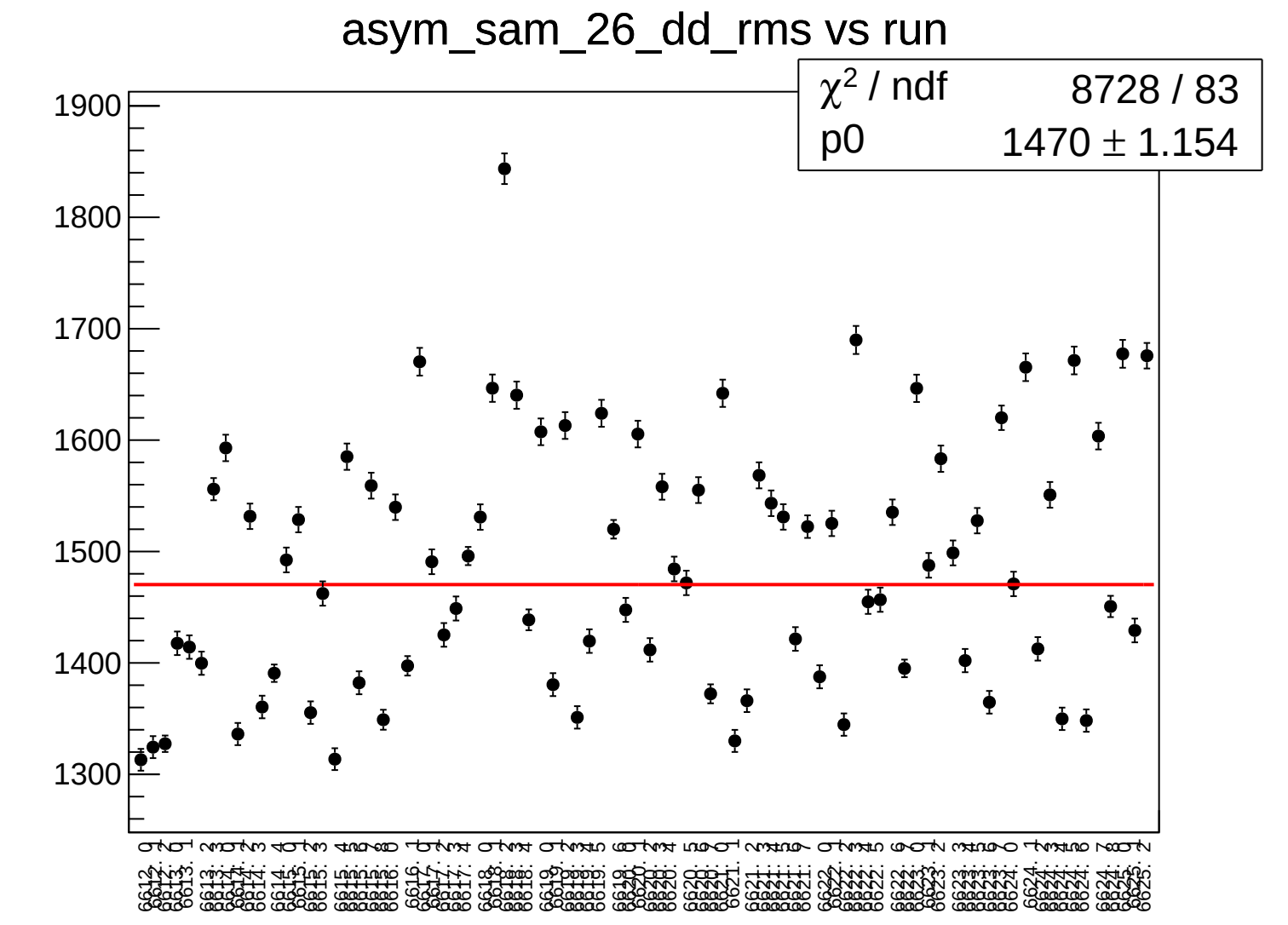

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.92 / 83
p0 −516.7 ± 1651
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 224.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

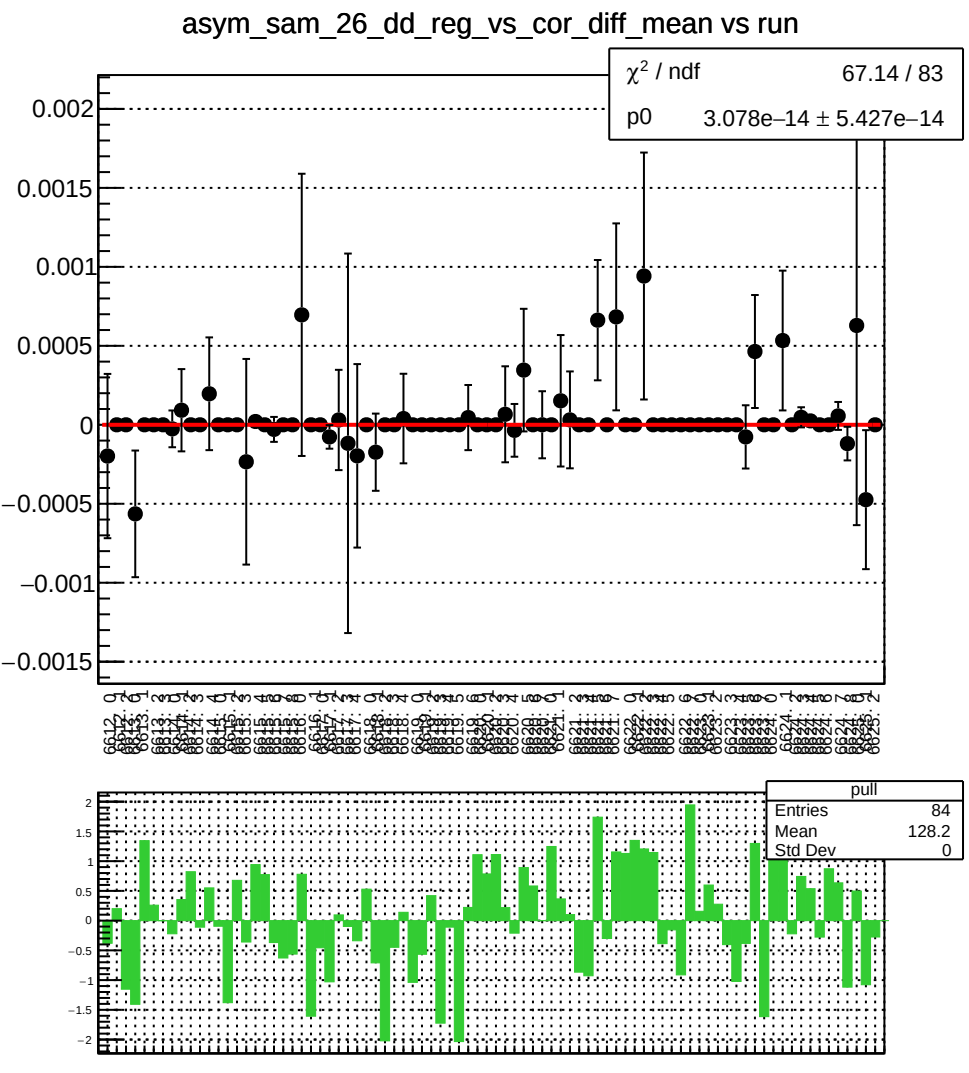

pull1D
Entries 84
Mean 0.01257
Std Dev 0.9443
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

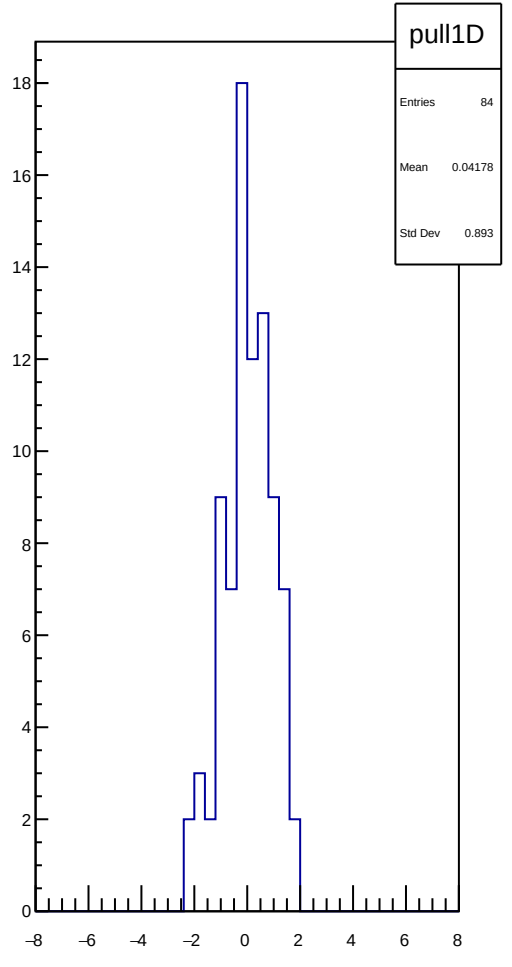

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 8016 / 83
p0 1488 ± 1.168
1900
1800
1700
1600
1500
1400
1300

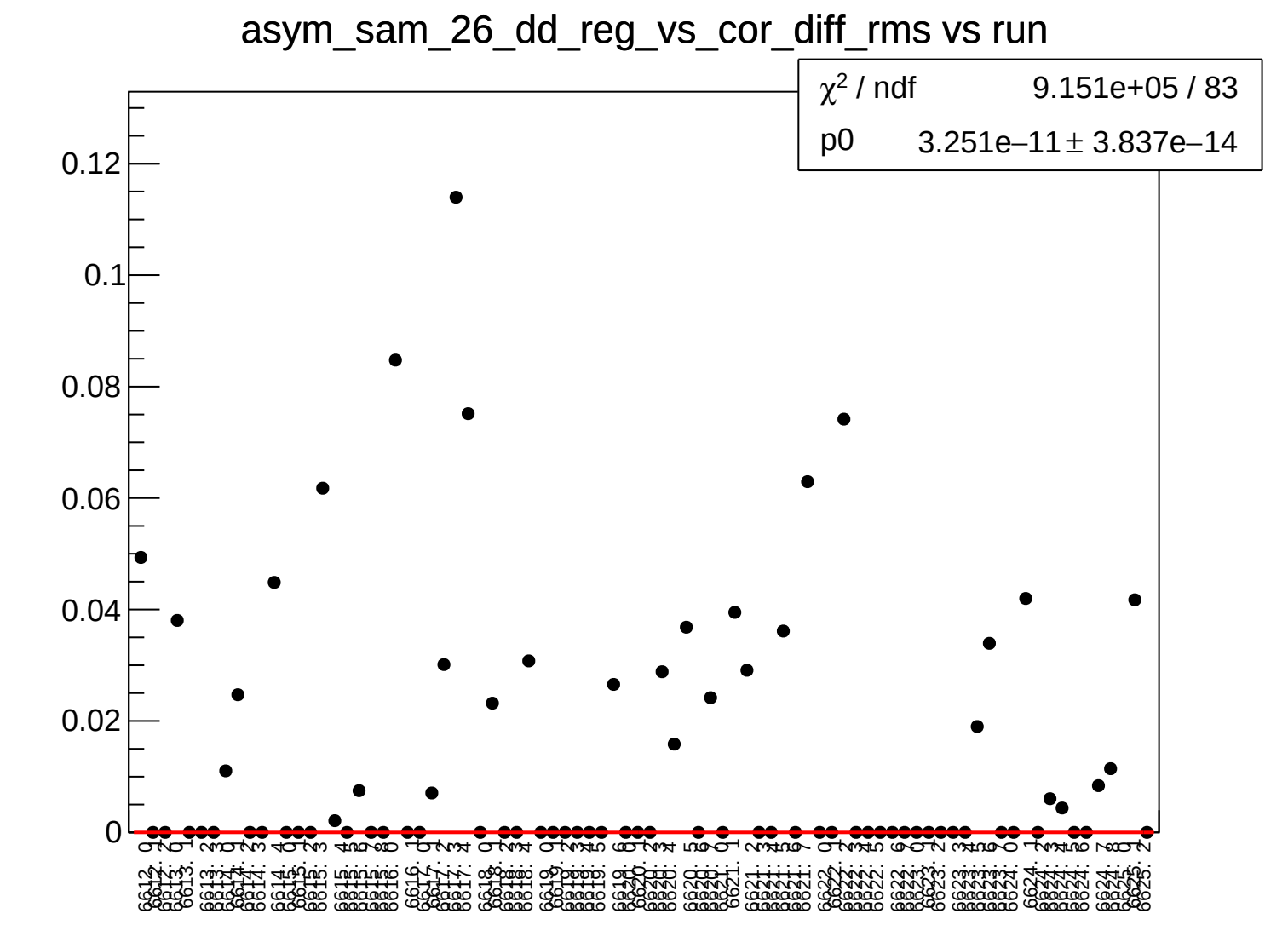

asym_sam_26_dd_mean vs run
χ² / ndf 78.03 / 83
p0 560.1 ± 1632
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 231
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

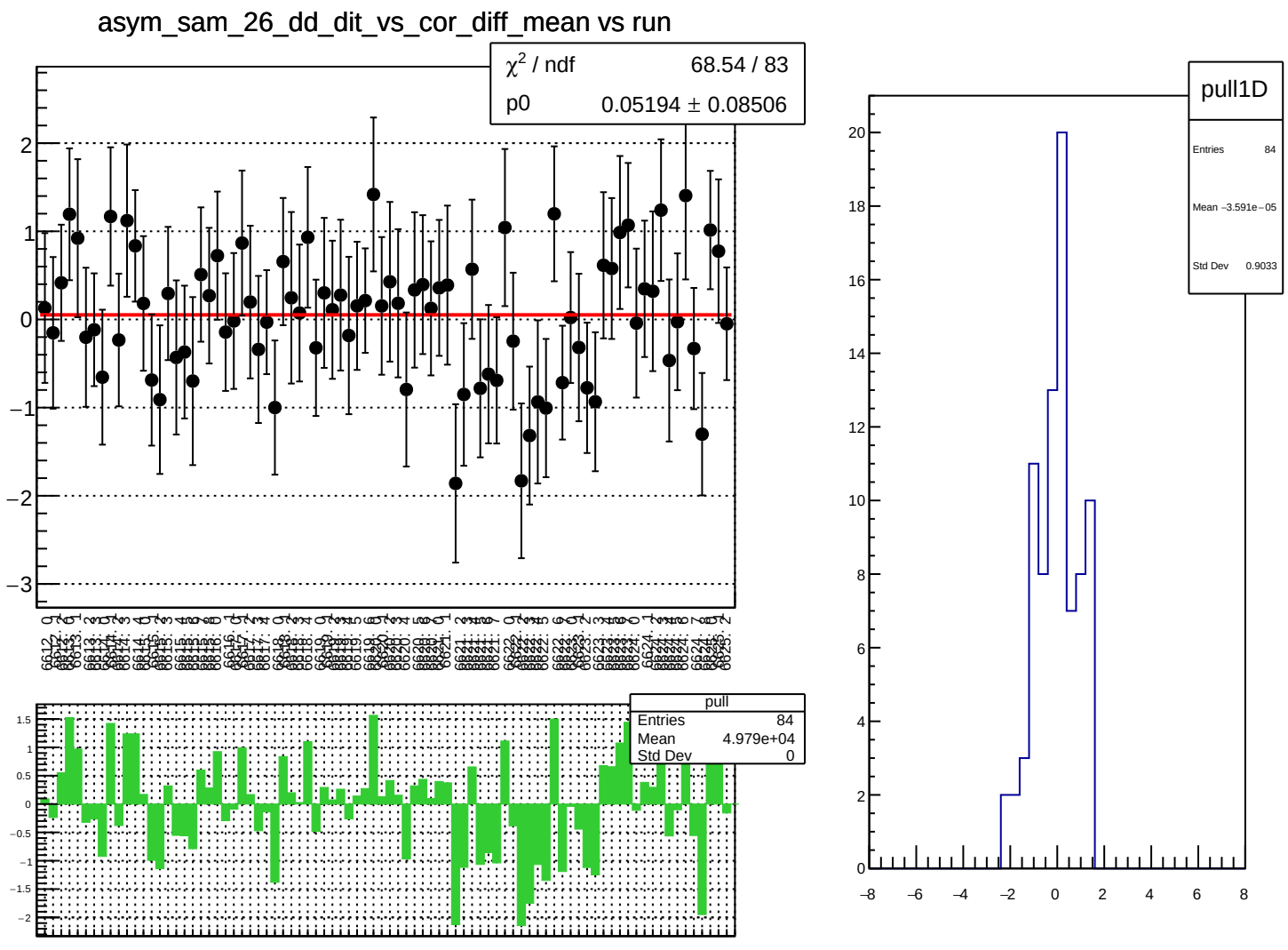

pull1D
Entries 84
Mean −0.01251
Std Dev 0.9637
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

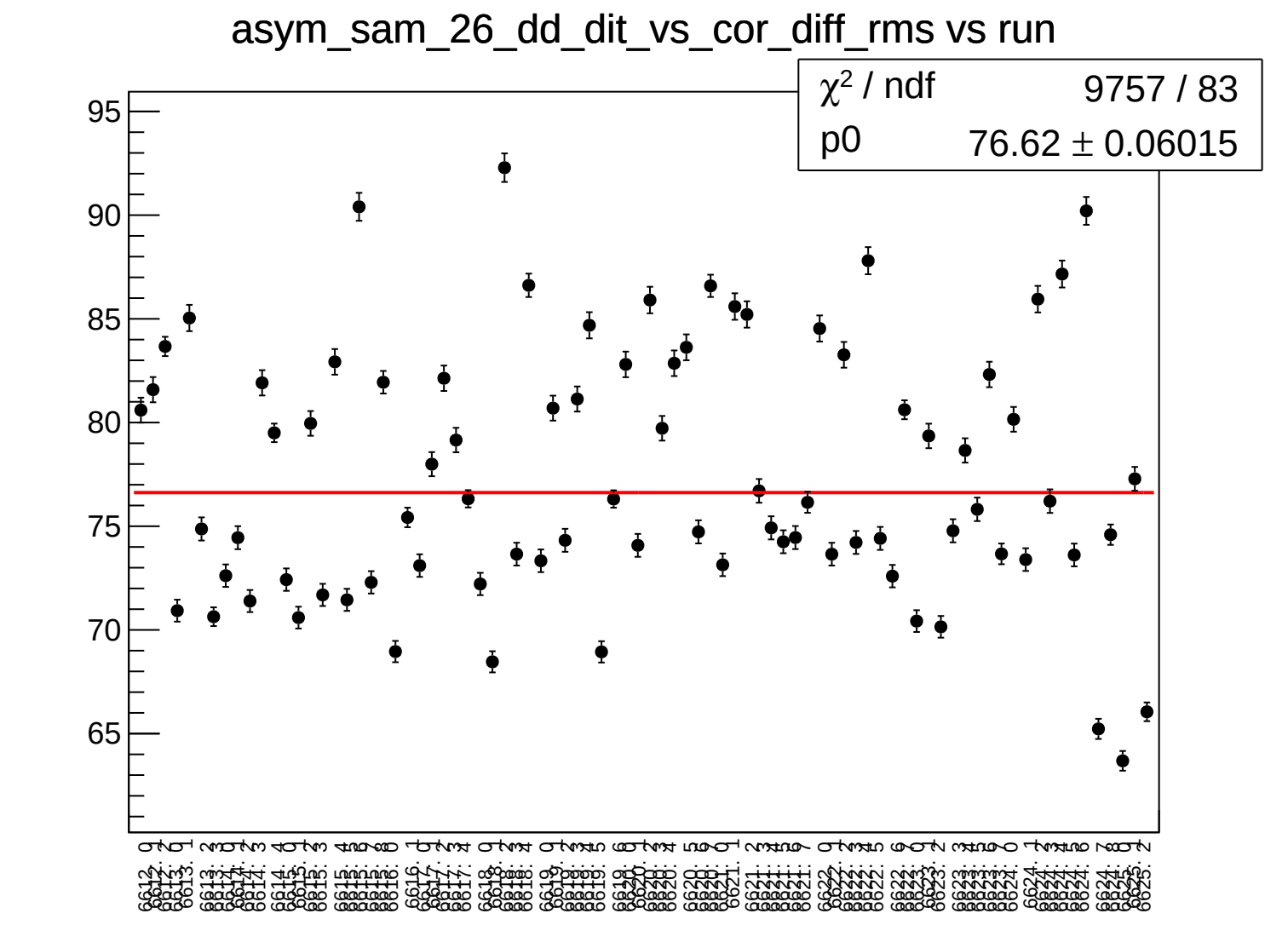

asym_sam_26_dd_rms vs run
χ² / ndf 8728 / 83
p0 1470 ± 1.154
1900
1800
1700
1600
1500
1400
1300

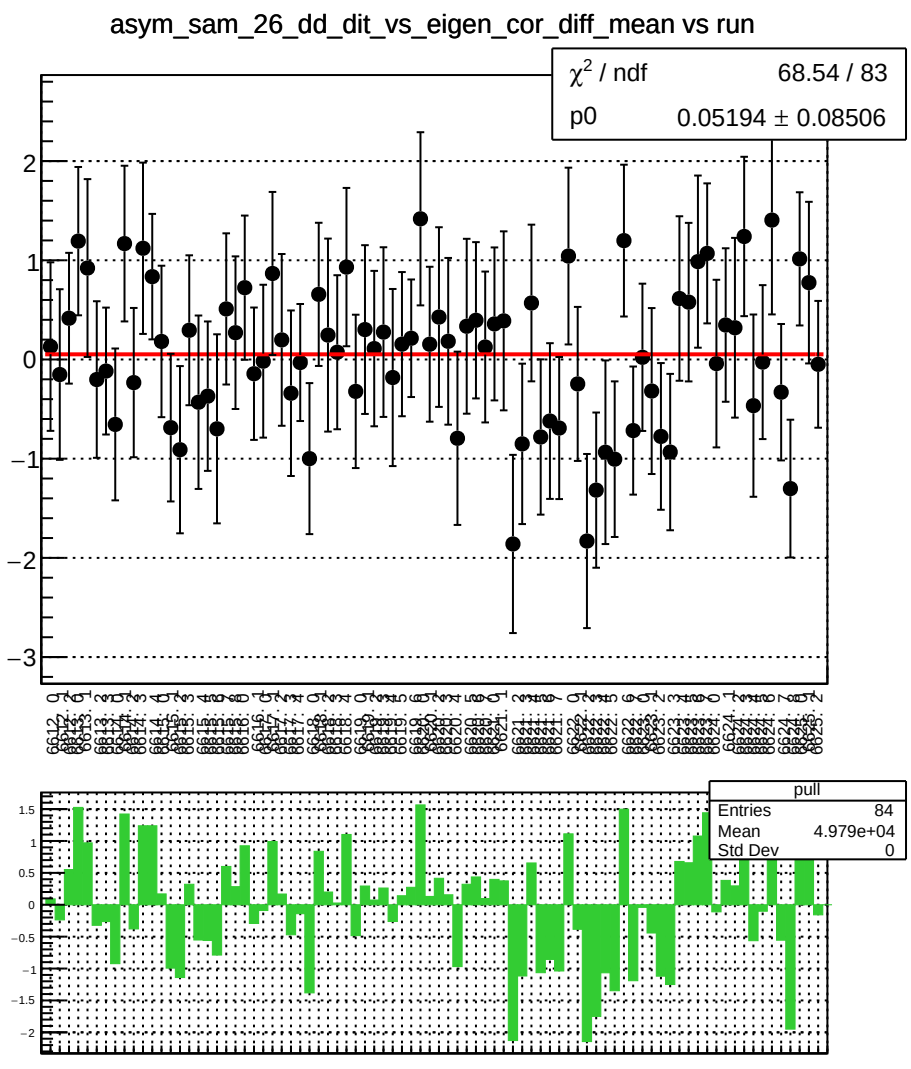

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 67.14 / 83
p0 3.078e−14 ± 5.427e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 84
Mean 128.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

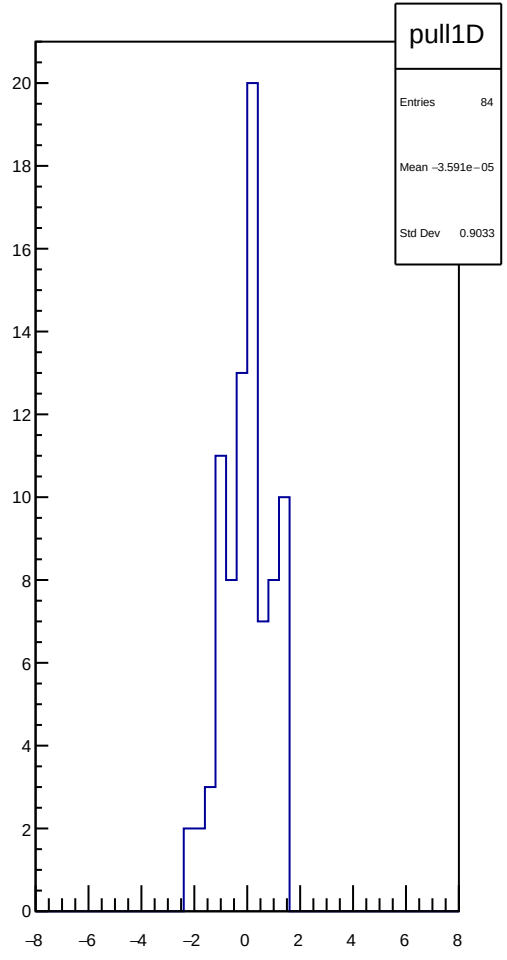

pull1D
Entries 84
Mean 0.04178
Std Dev 0.893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

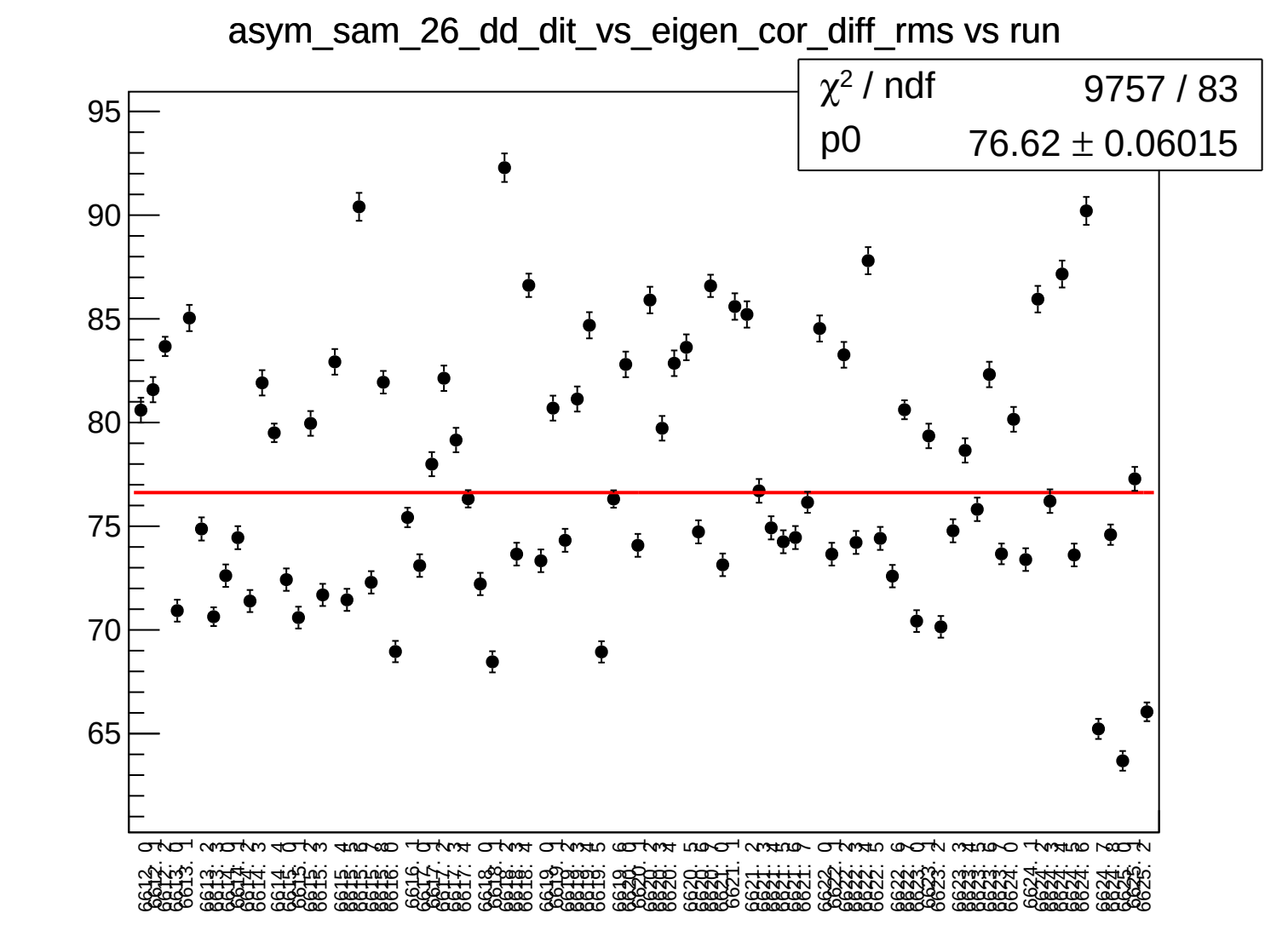

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.151e+05 / 83
p0 3.251e−11 ± 3.837e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

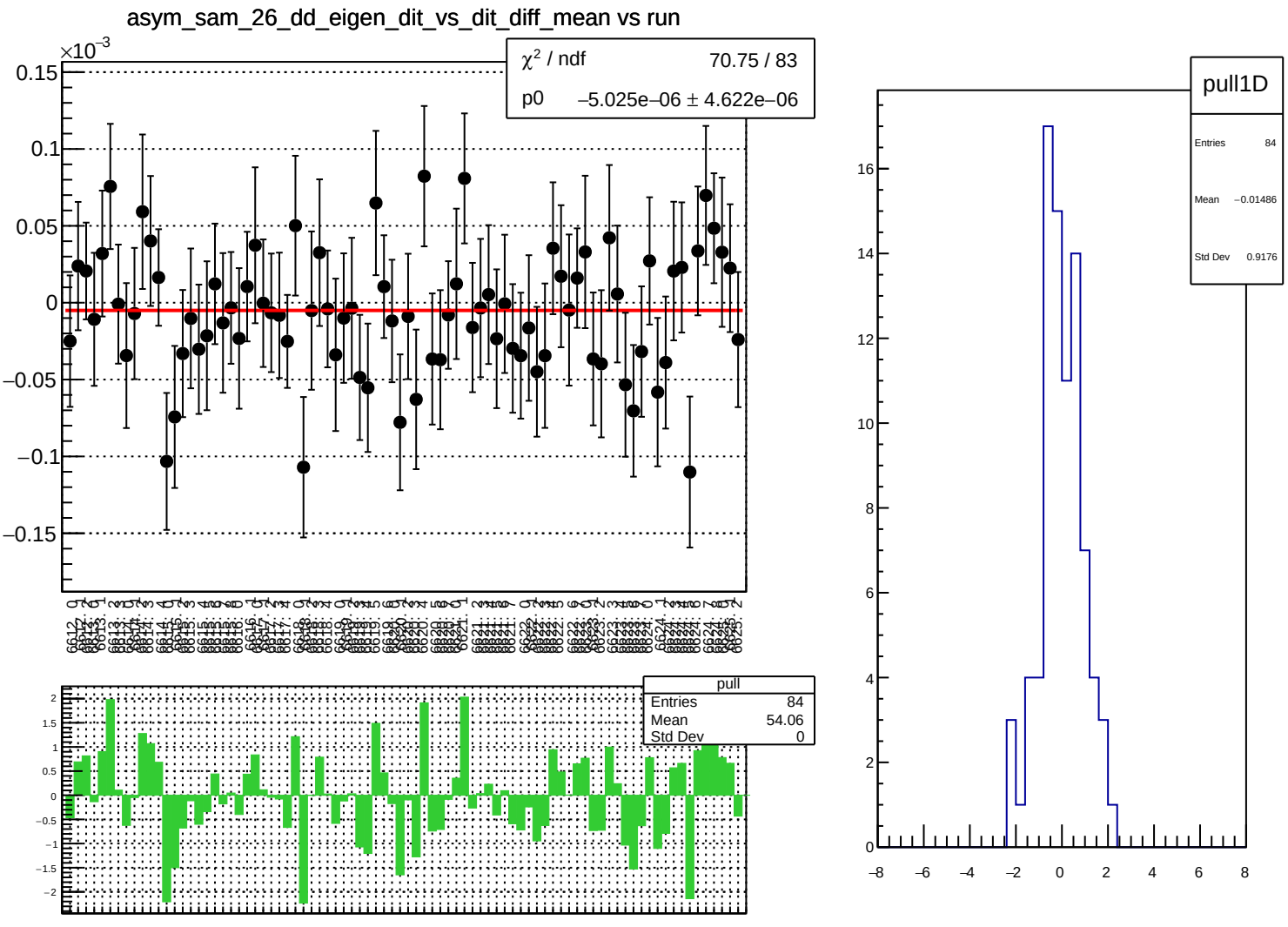

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.54 / 83
p0 0.05194 ± 0.08506
pull
Entries 84
Mean 4.979e+04
Std Dev 0
pull1D
Entries 84
Mean −3.591e−05
Std Dev 0.9033

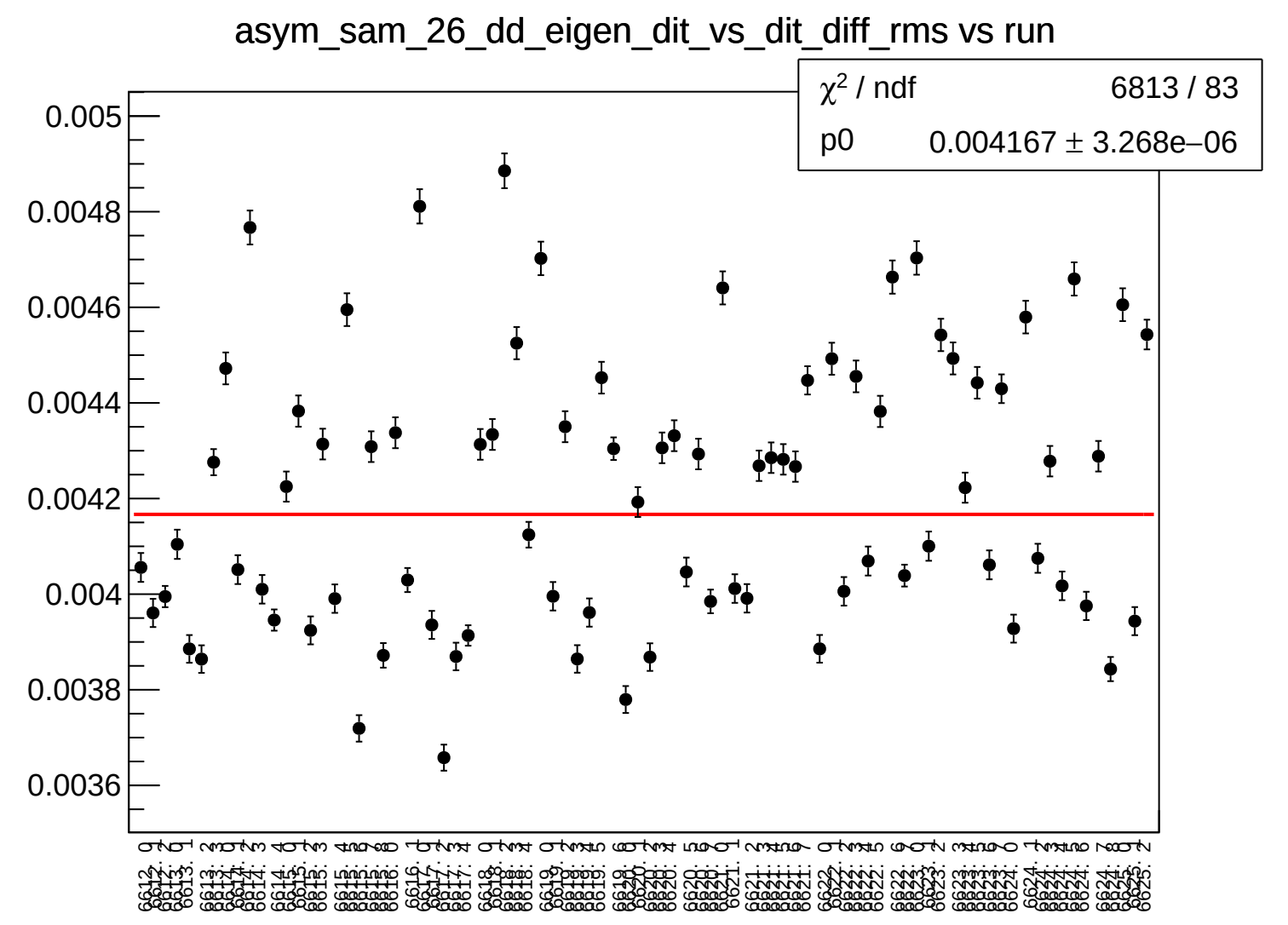

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9757 / 83
p0 76.62 ± 0.06015
95
90
85
80
75
70
65

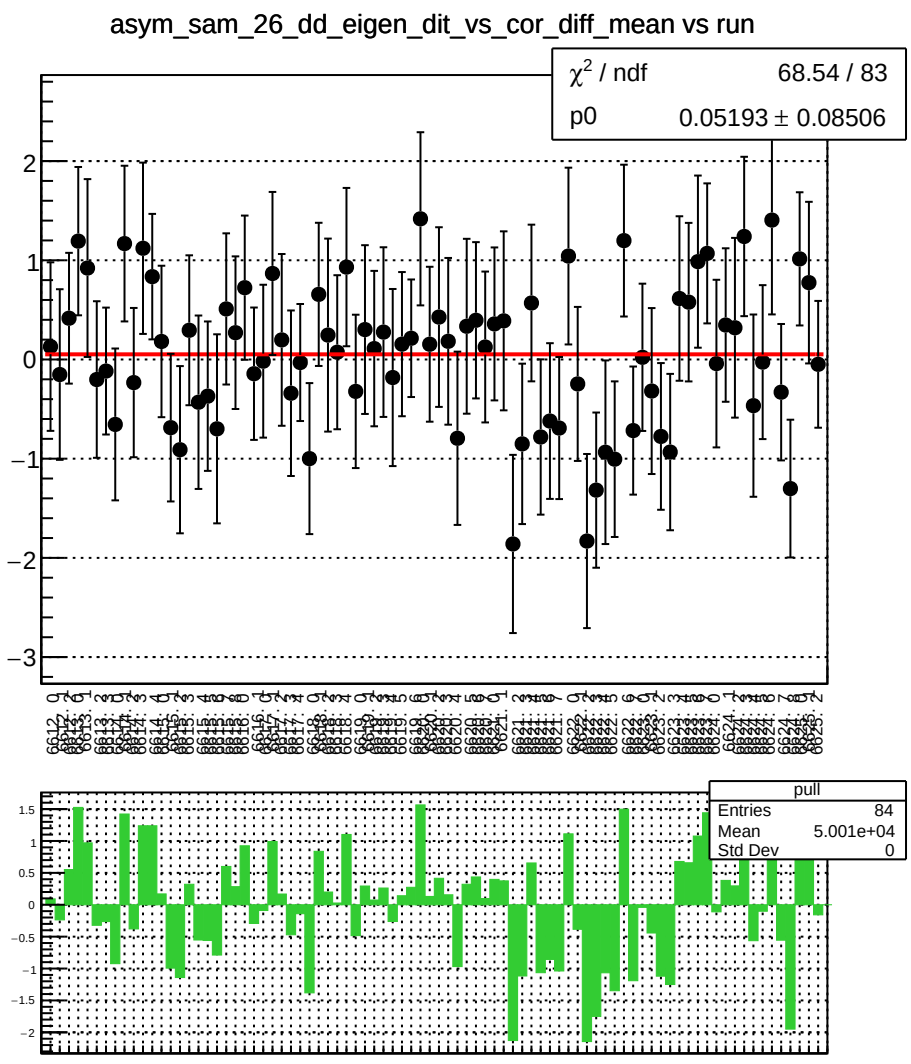

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.54 / 83
p0 0.05194 ± 0.08506
pull
Entries 84
Mean 4.979e+04
Std Dev 0

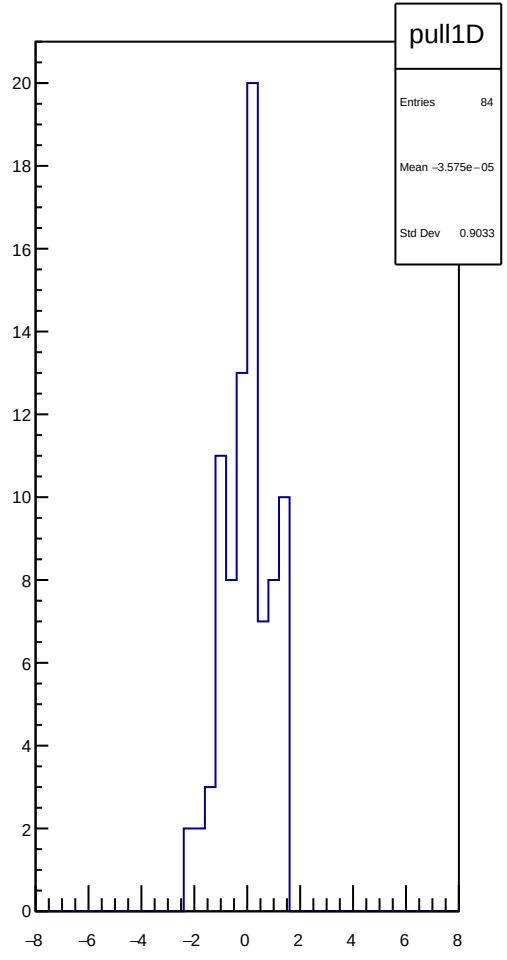

pull1D
Entries 84
Mean −3.591e−05
Std Dev 0.9033

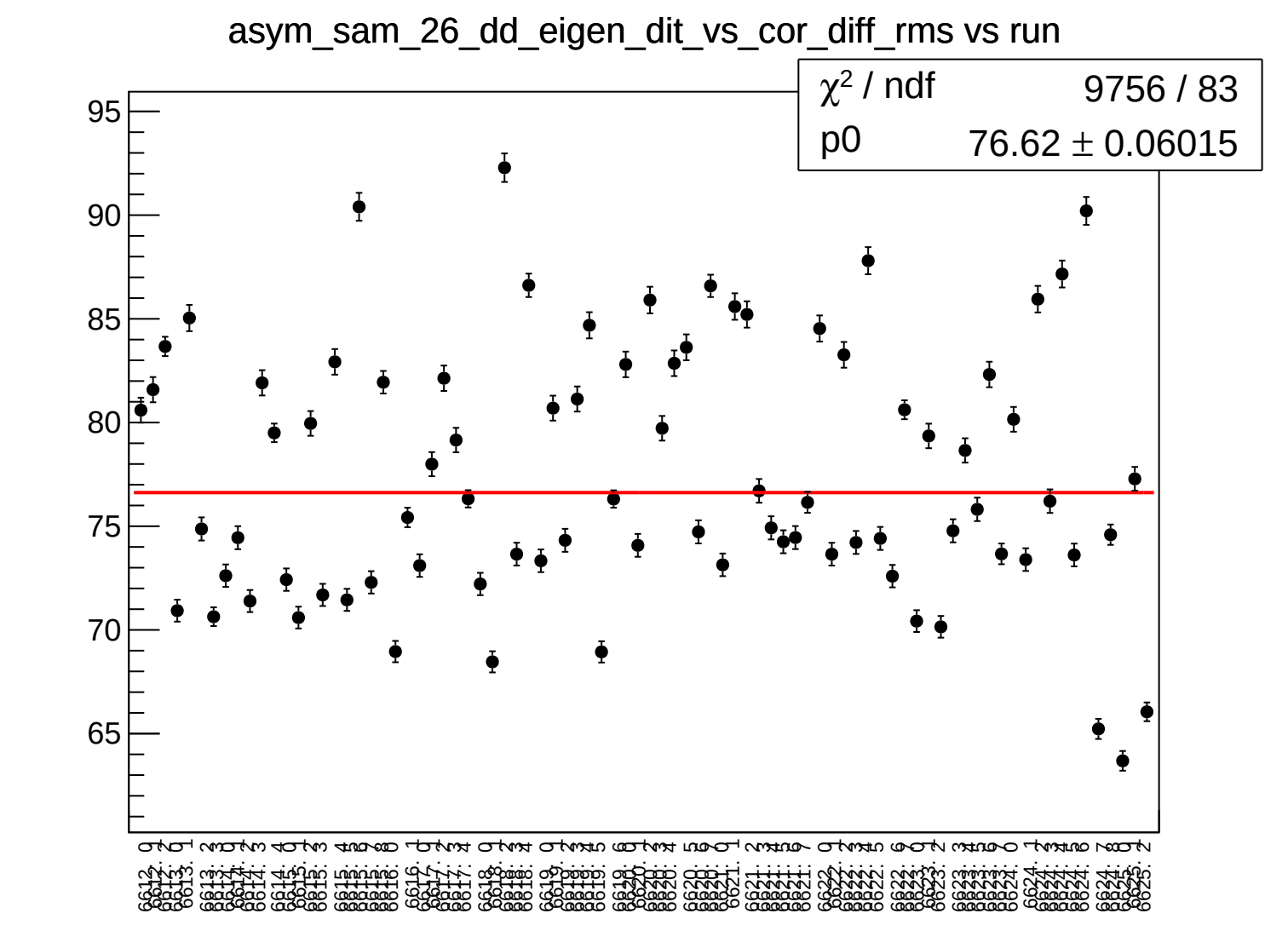

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9757 / 83
p0 76.62 ± 0.06015
95
90
85
80
75
70
65


asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.75 / 83
p0 −5.025e−06 ± 4.622e−06
pull
Entries 84
Mean 54.06
Std Dev 0
pull1D
Entries 84
Mean −0.01486
Std Dev 0.9176

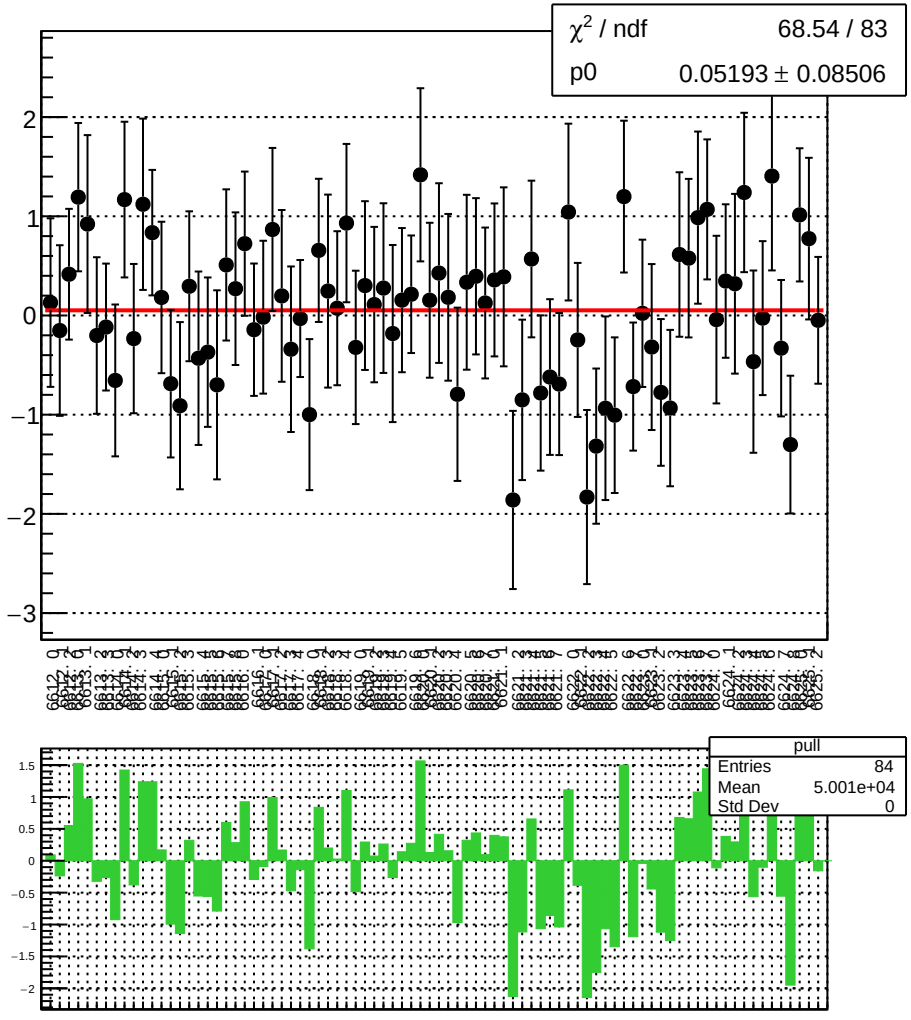

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6813 / 83
p0 0.004167 ± 3.268e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

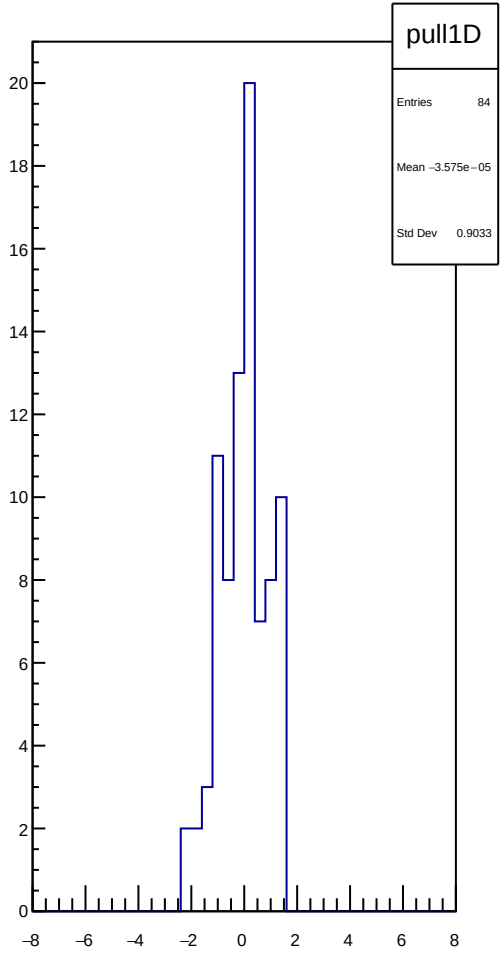

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.54 / 83
p0 0.05193 ± 0.08506
pull
Entries 84
Mean 5.001e+04
Std Dev 0

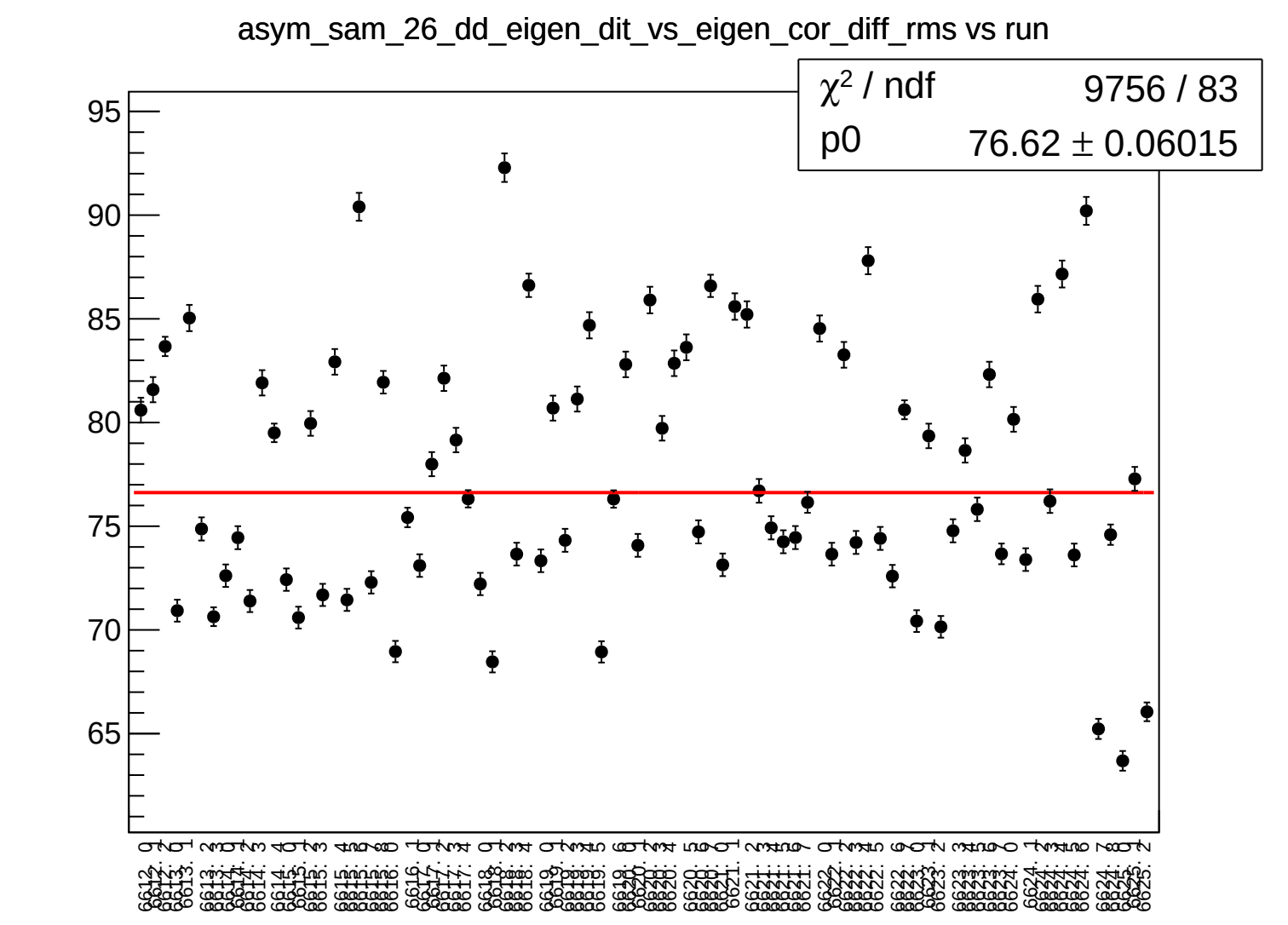

pull1D
Entries 84
Mean −3.575e−05
Std Dev 0.9033

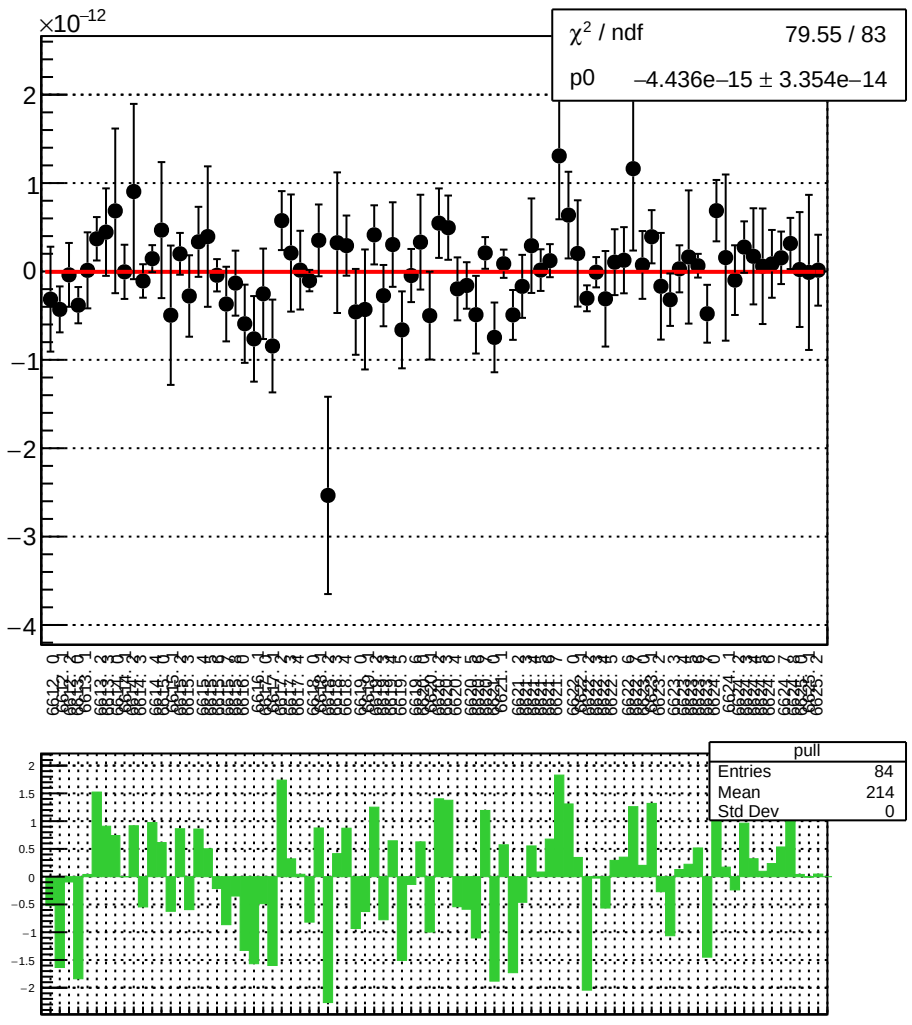

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9756 / 83
p0 76.62 ± 0.06015
95
90
85
80
75
70
65

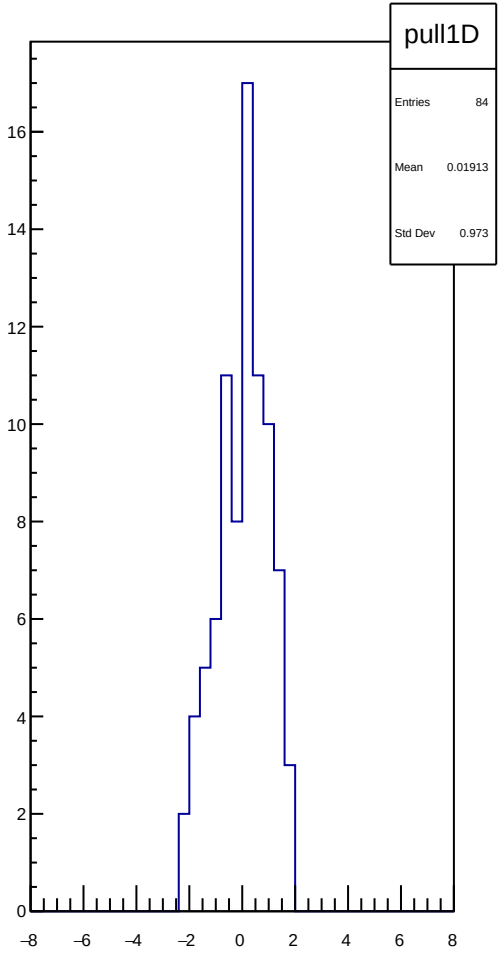
asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

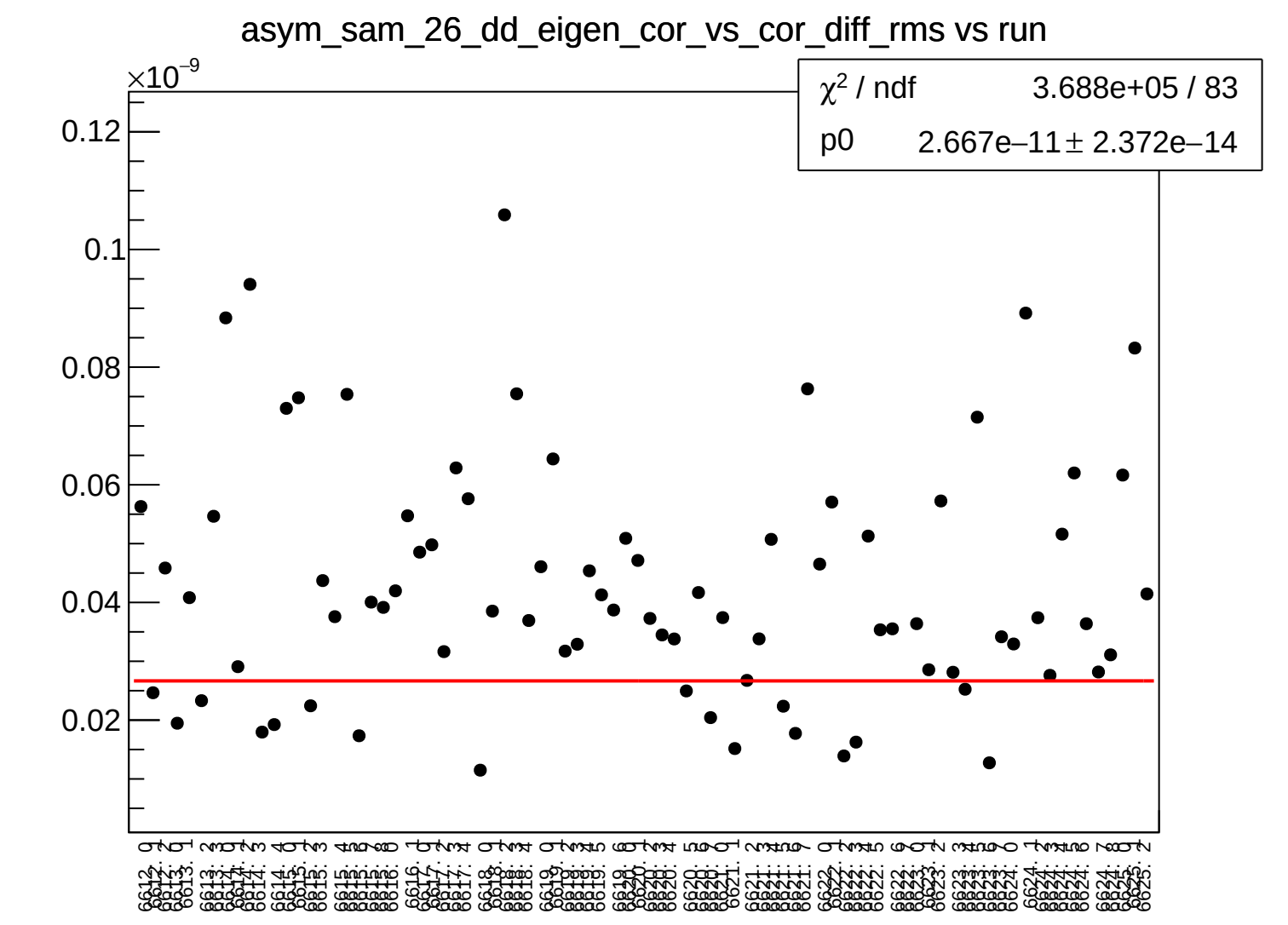


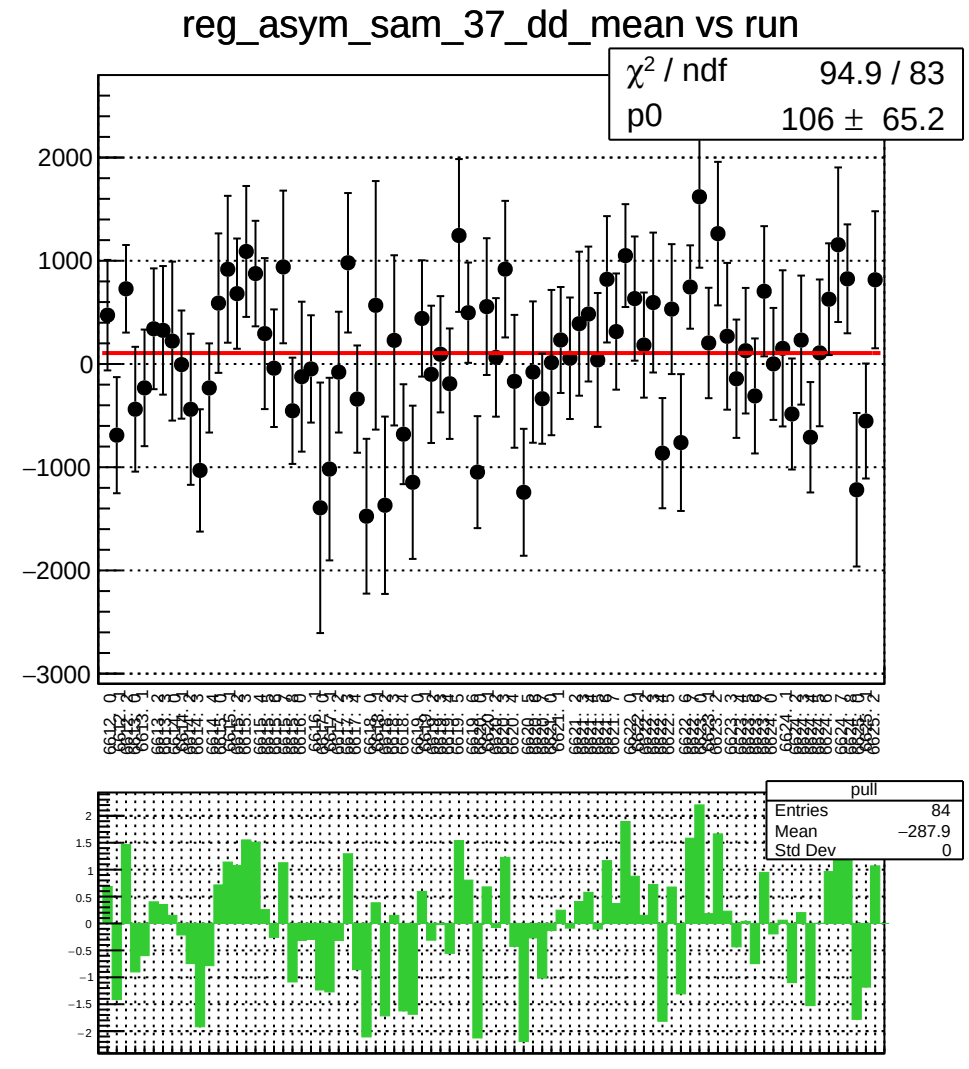


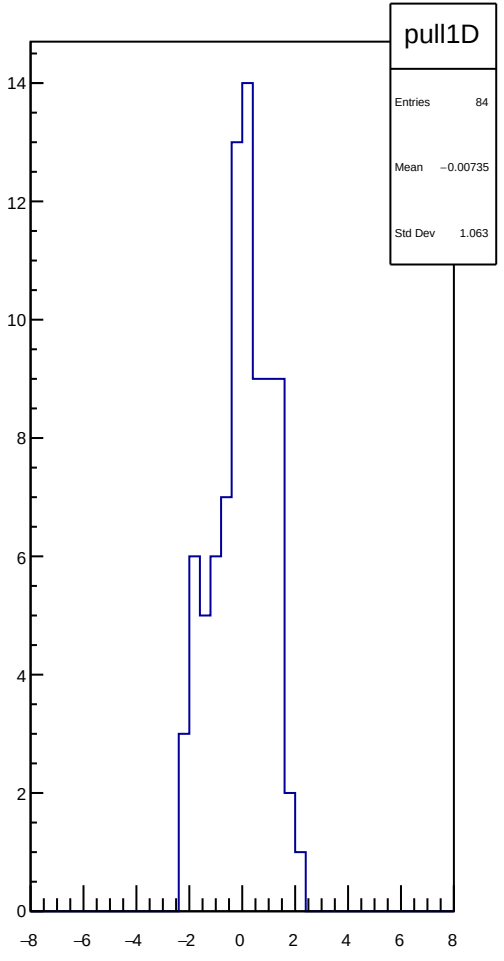

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9756 / 83
p0 76.62 ± 0.06015
95
90
85
80
75
70
65

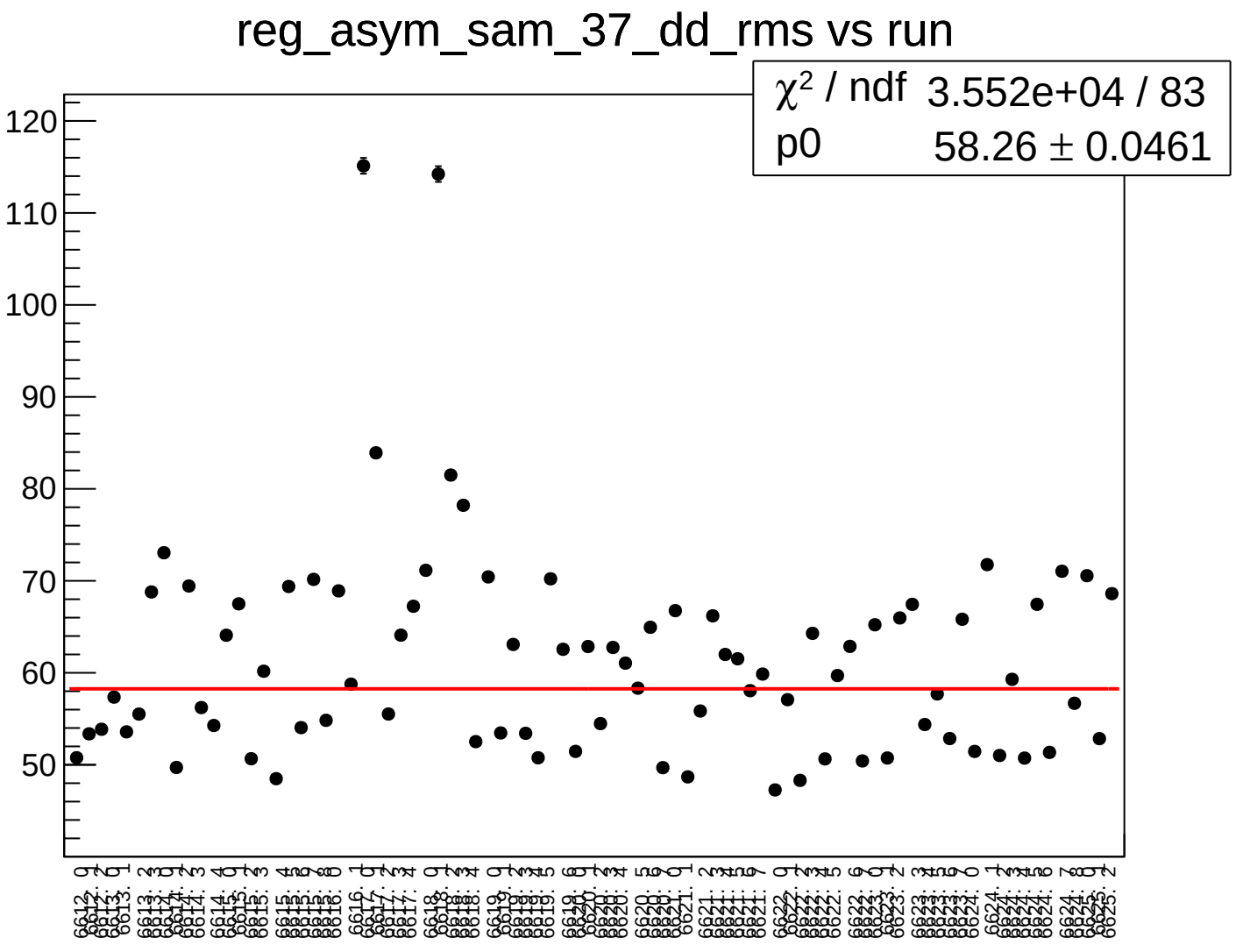

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.55 / 83
p0 −4.436e−15 ± 3.354e−14
pull
Entries 84
Mean 214
Std Dev 0

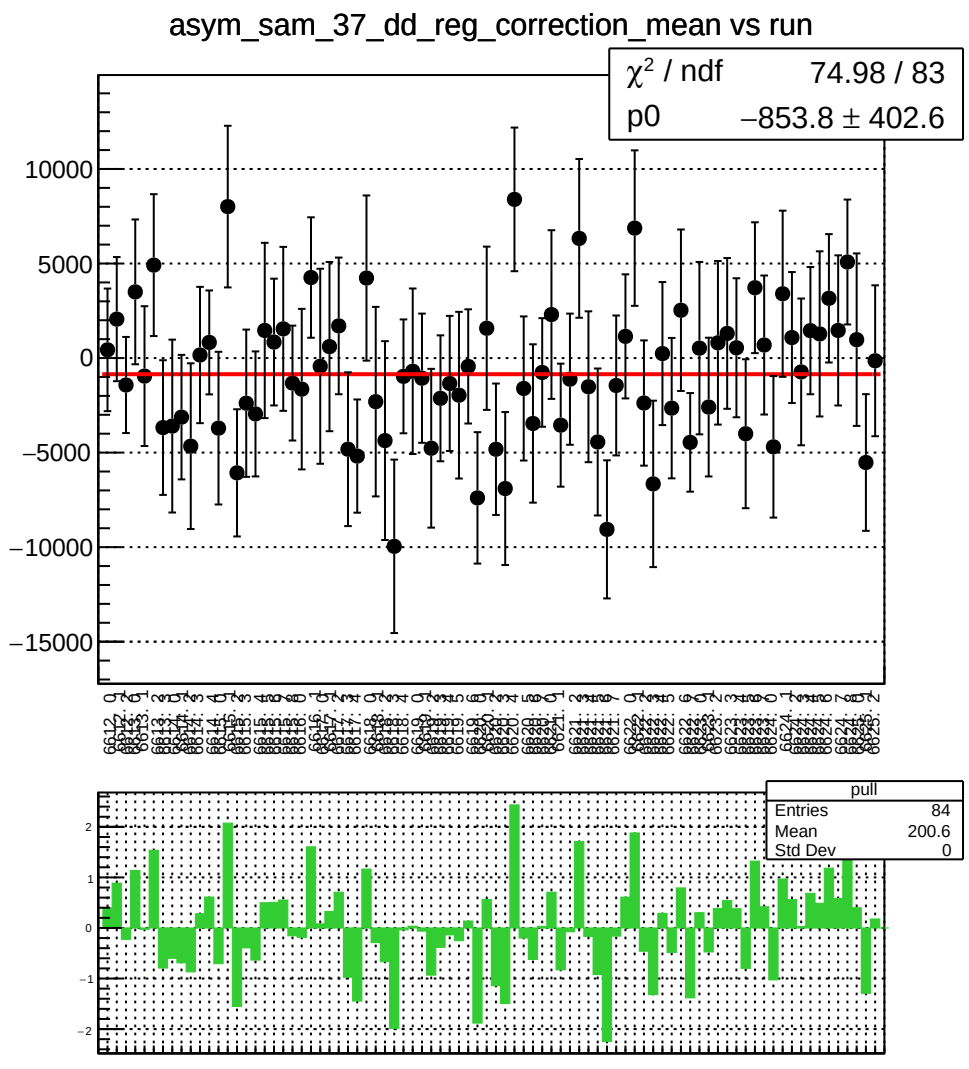

pull1D
Entries 84
Mean 0.01913
Std Dev 0.973

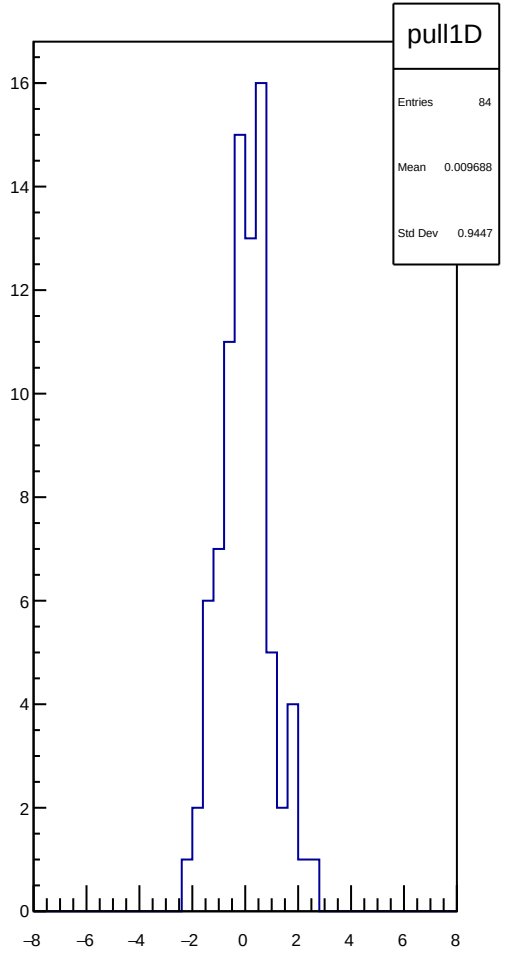

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.688e+05 / 83
p0 2.667e−11 ± 2.372e−14
0.12
0.1
0.08
0.06
0.04
0.02

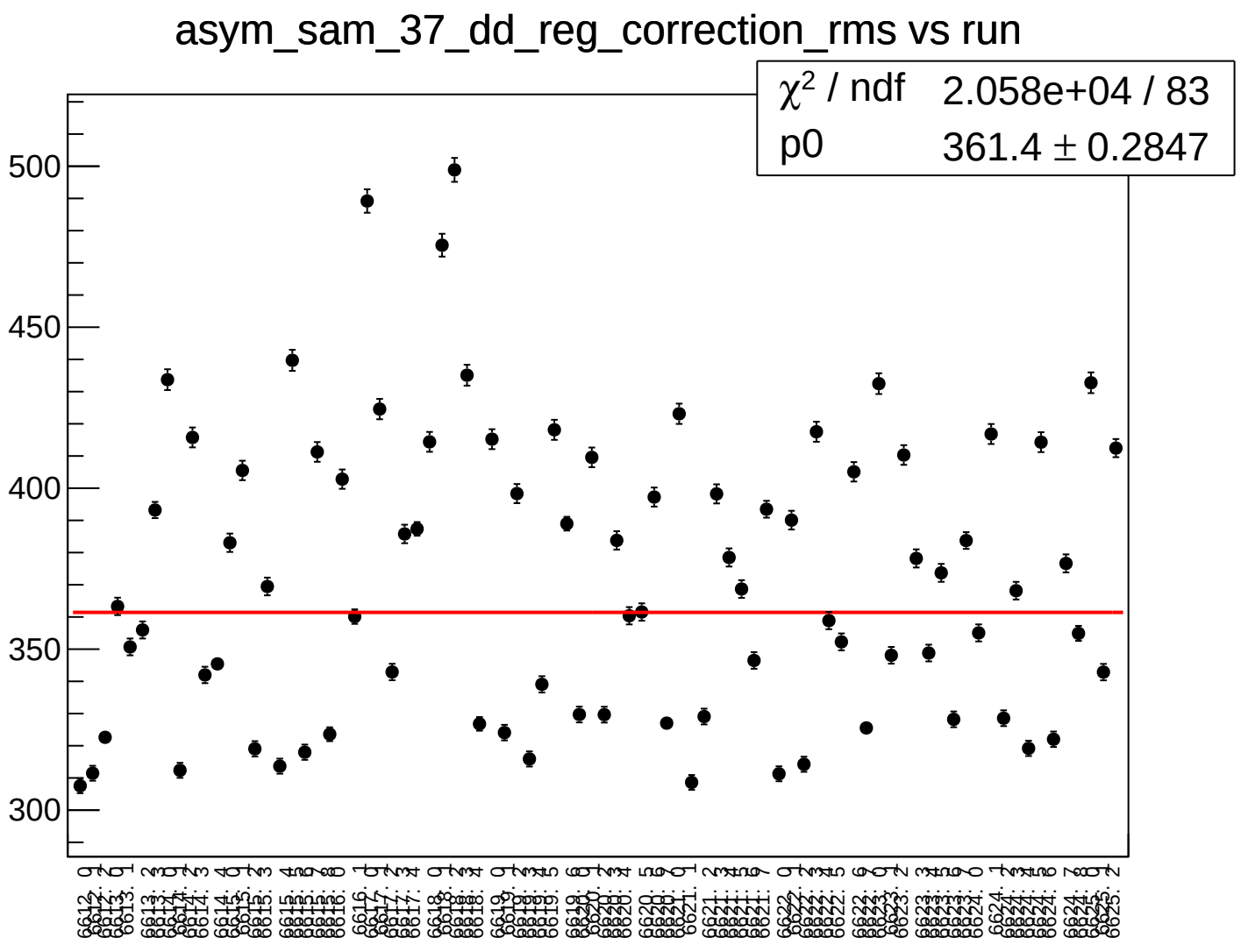

reg_asym_sam_37_dd_mean vs run
χ² / ndf 94.9 / 83
p0 106 ± 65.2
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −287.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

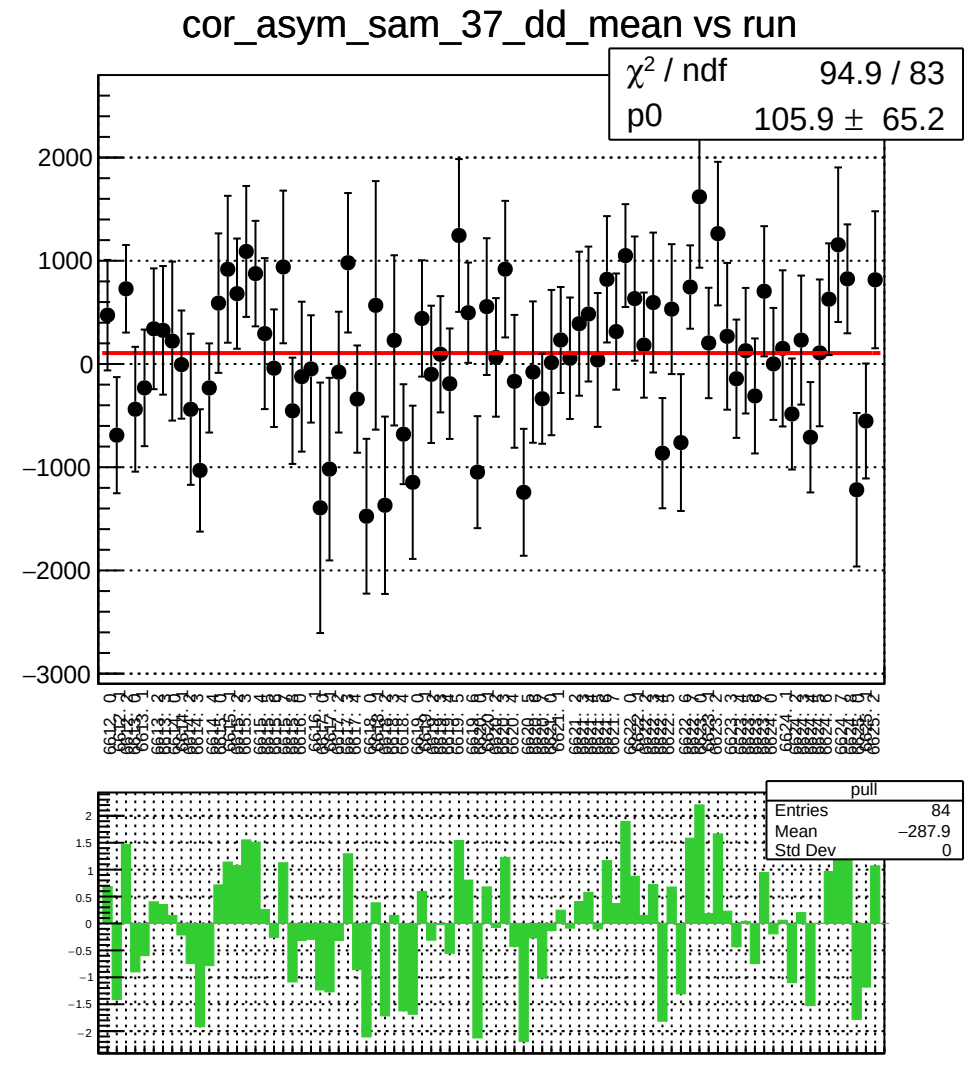

pull1D
Entries 84
Mean −0.00735
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

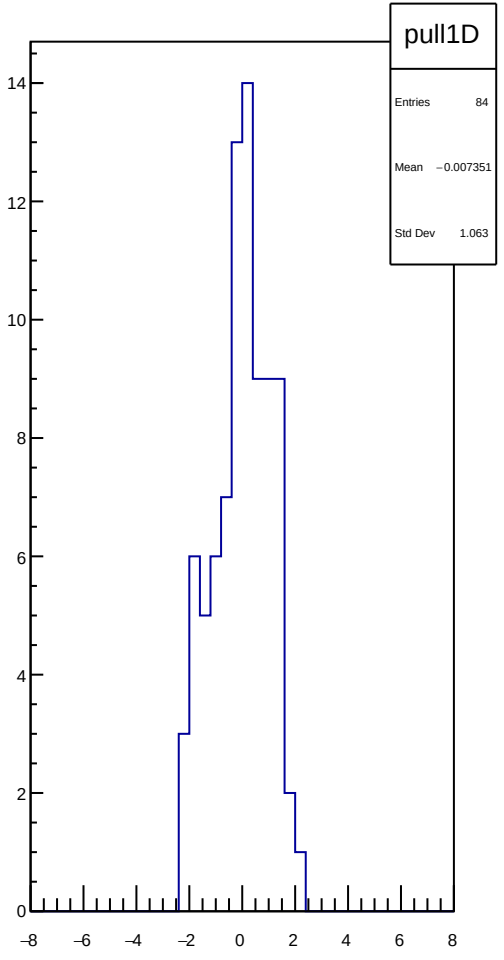

reg_asym_sam_37_dd_rms vs run
χ² / ndf 3.552e+04 / 83
p0 58.26 ± 0.0461
120
110
100
90
80
70
60
50

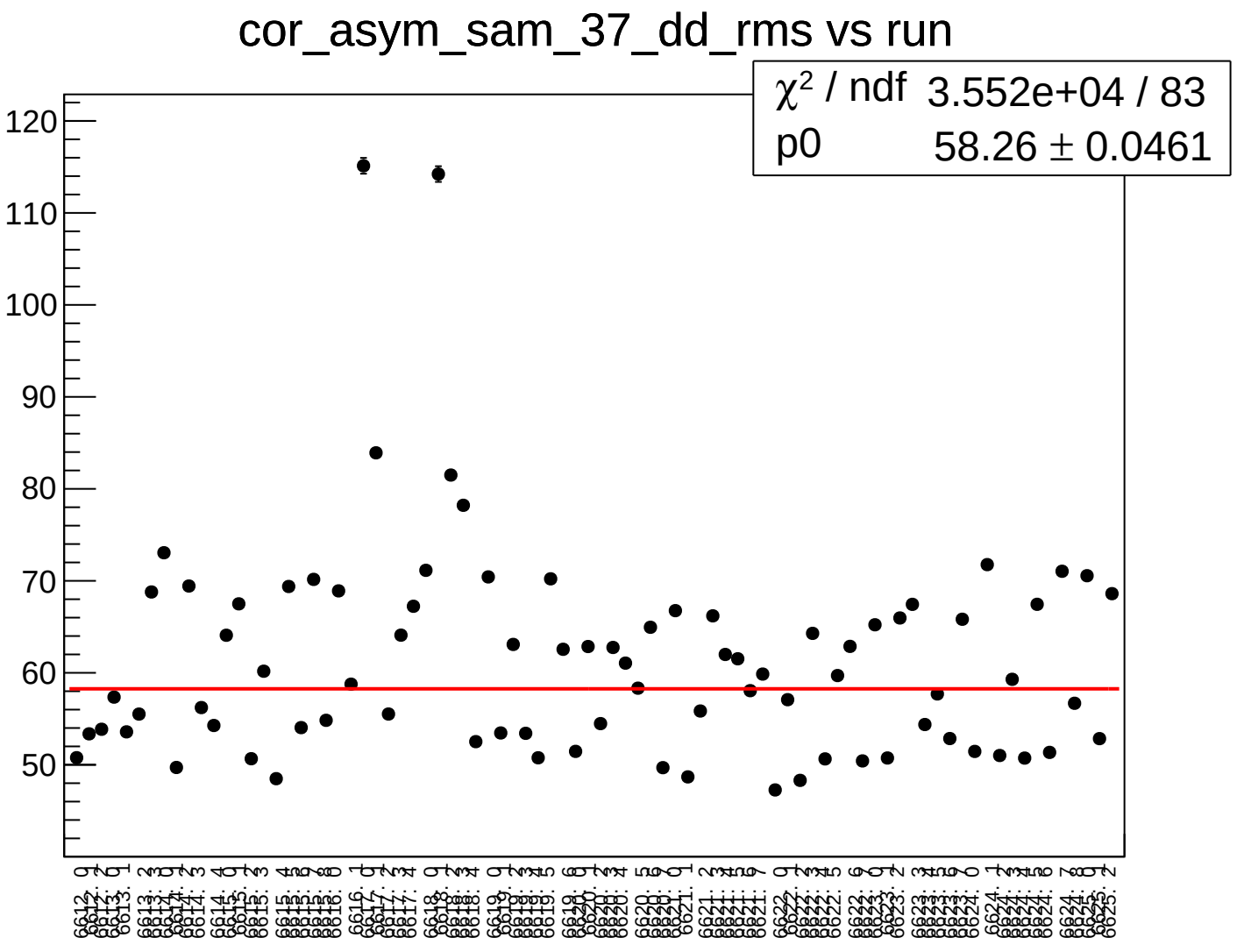

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 74.98 / 83
p0 −853.8 ± 402.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 200.6
Std Dev 0
2
1
0
−1
−2

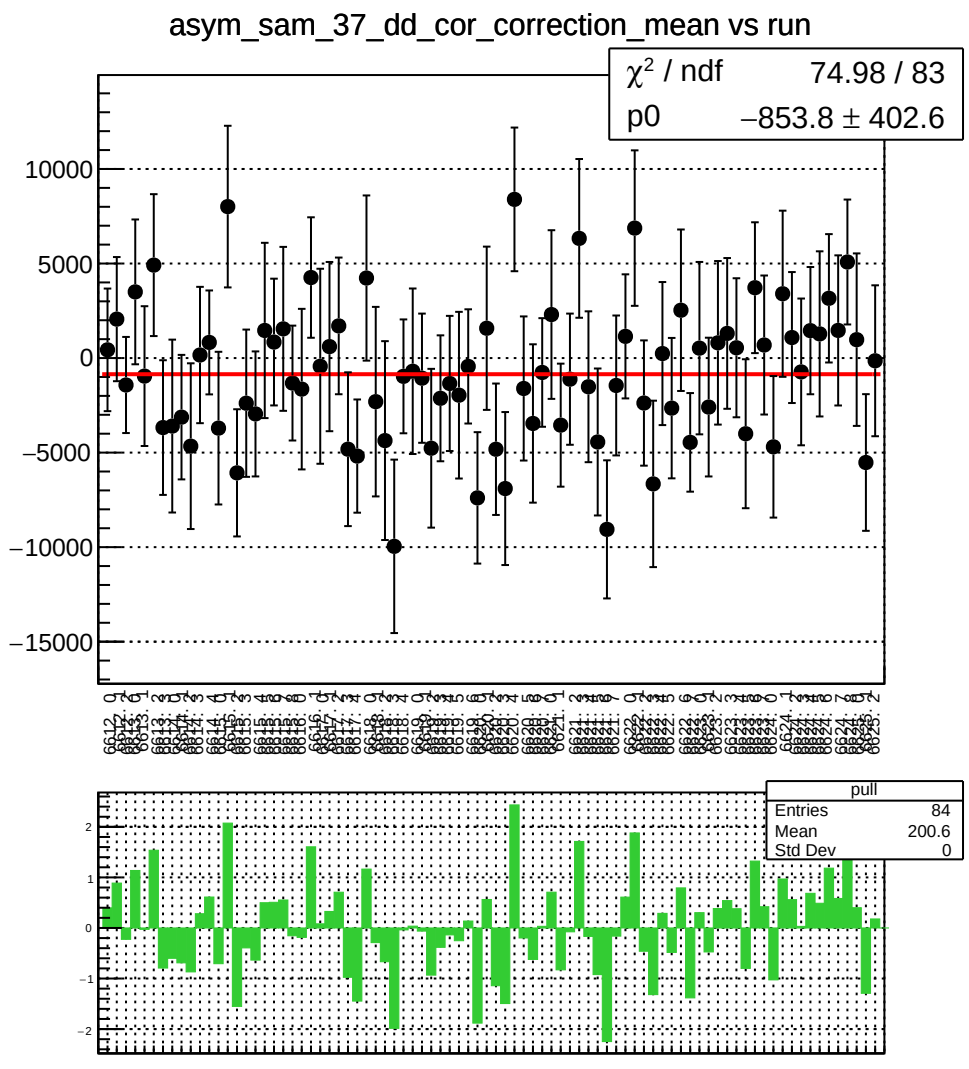

pull1D
Entries 84
Mean 0.009688
Std Dev 0.9447
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

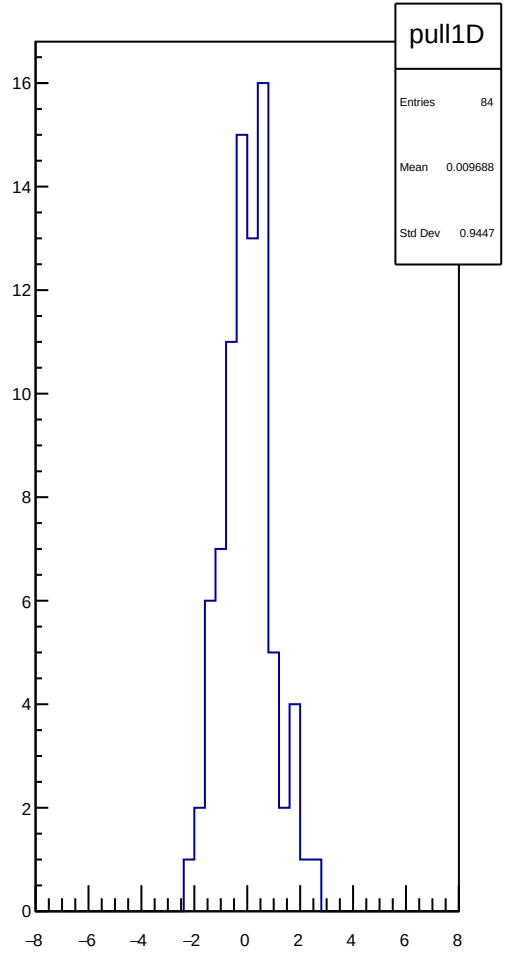

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 2.058e+04 / 83
p0 361.4 ± 0.2847
500
450
400
350
300

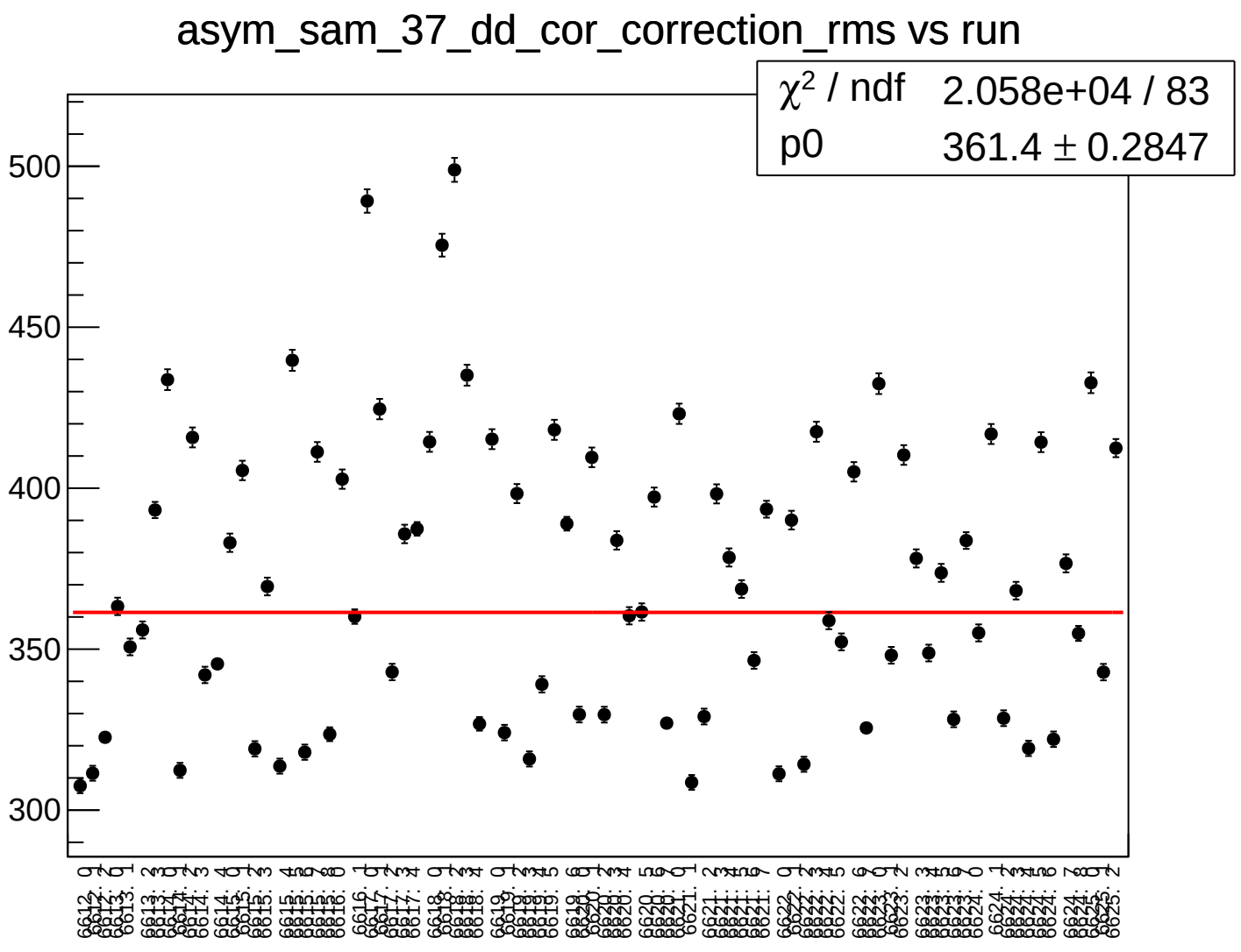

cor_asym_sam_37_dd_mean vs run
χ² / ndf 94.9 / 83
p0 105.9 ± 65.2
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −287.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

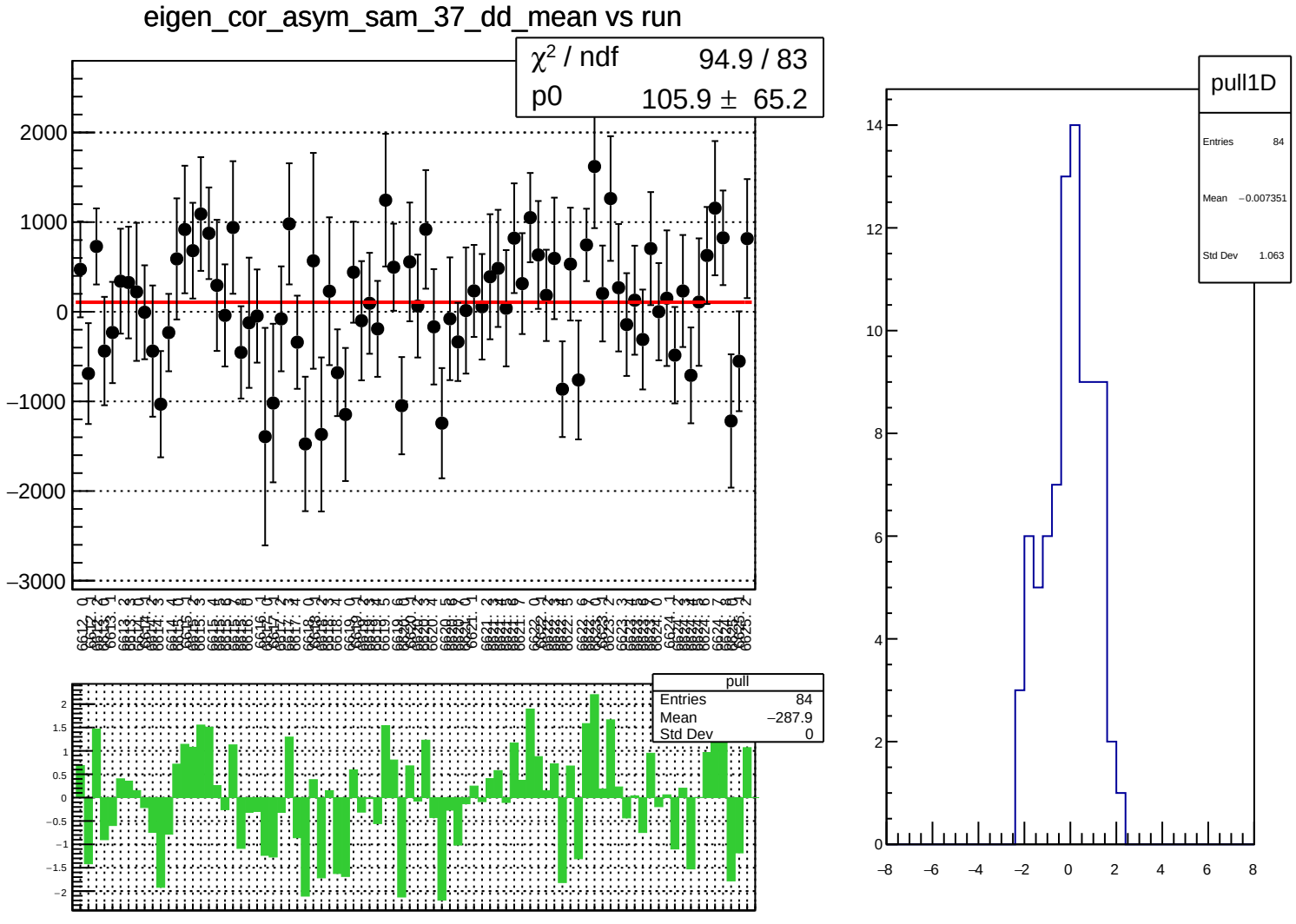

pull1D
Entries 84
Mean −0.007351
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

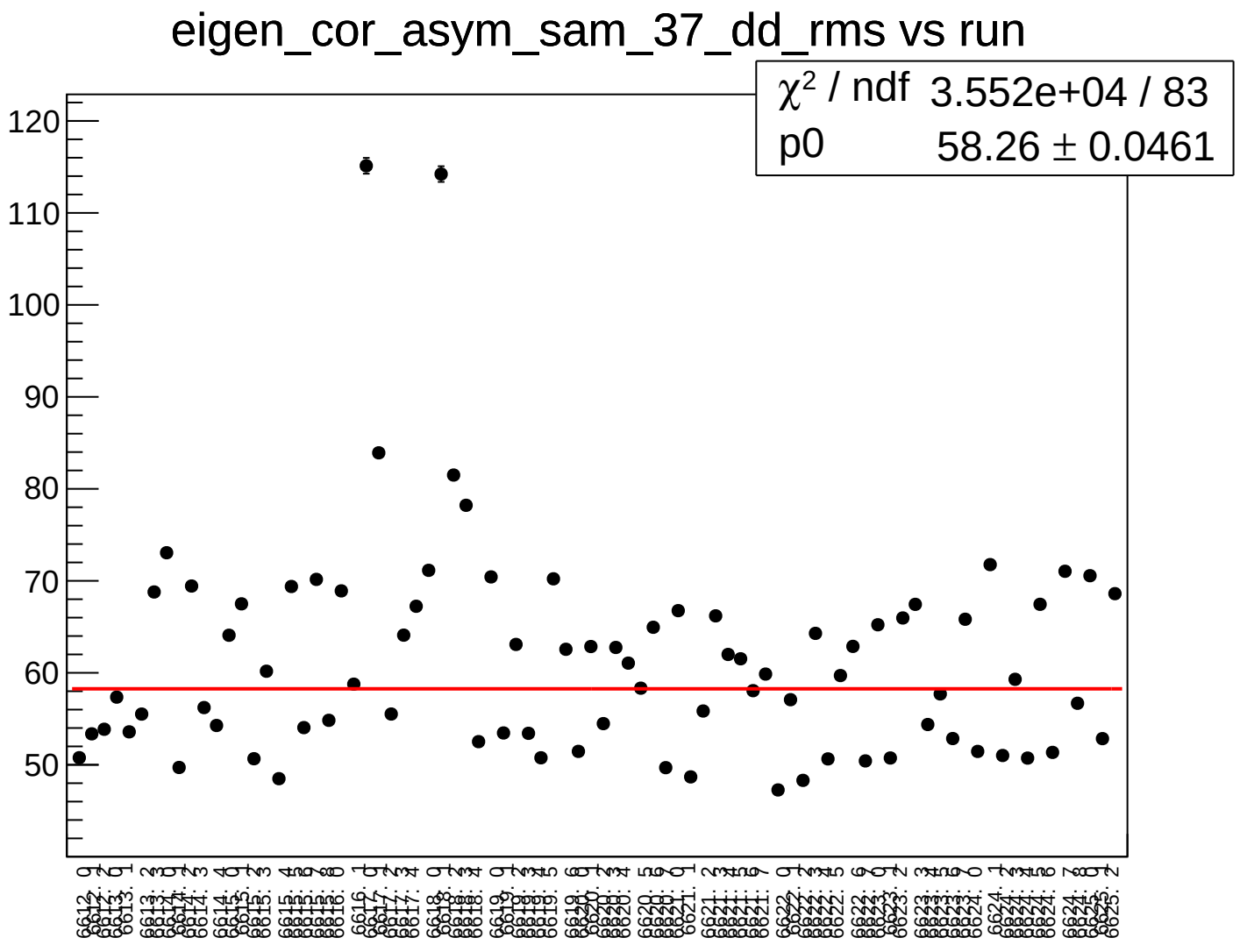

cor_asym_sam_37_dd_rms vs run
χ² / ndf 3.552e+04 / 83
p0 58.26 ± 0.0461
120
110
100
90
80
70
60
50

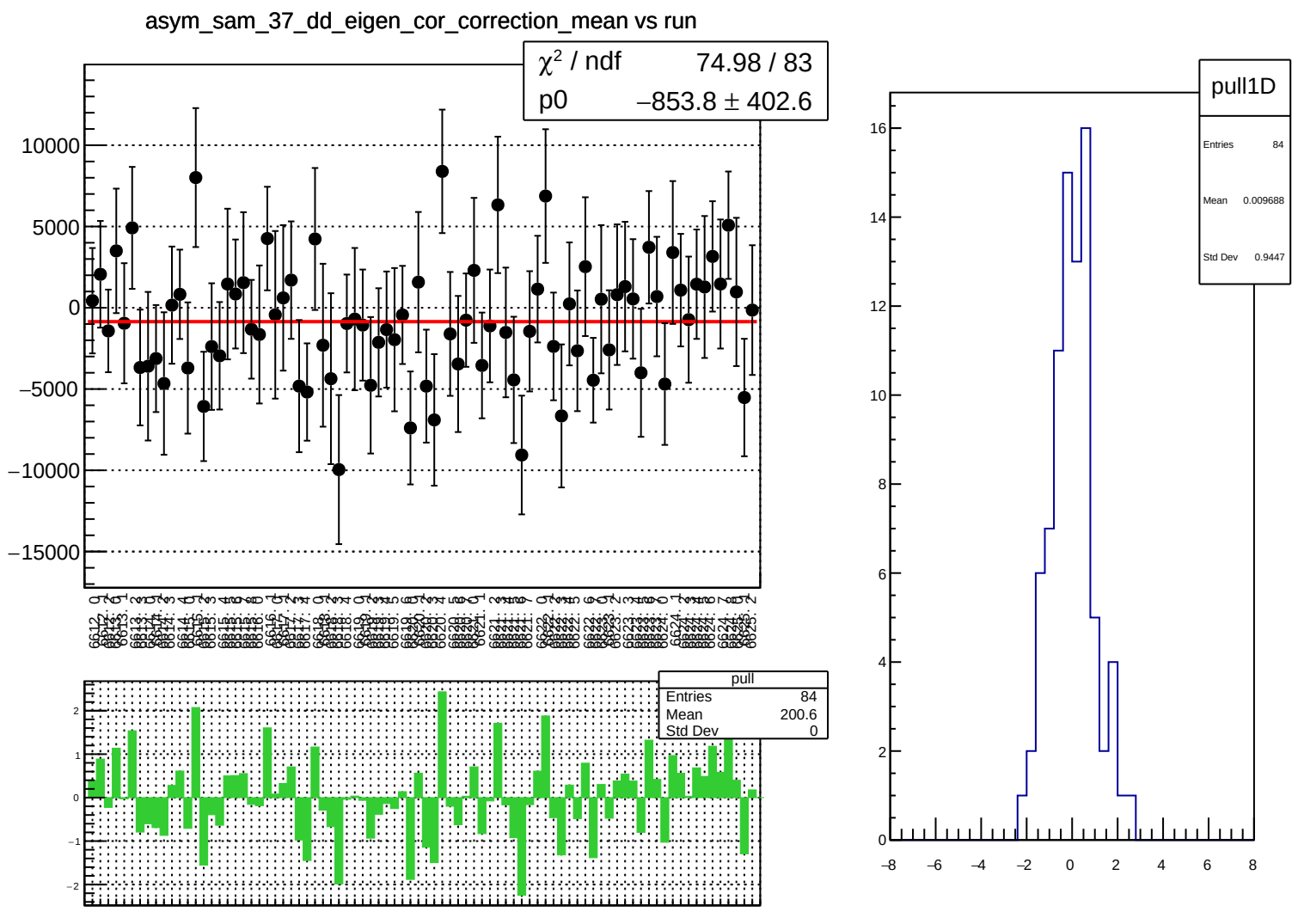

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 74.98 / 83
p0 −853.8 ± 402.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 200.6
Std Dev 0
2
1
0
−1
−2

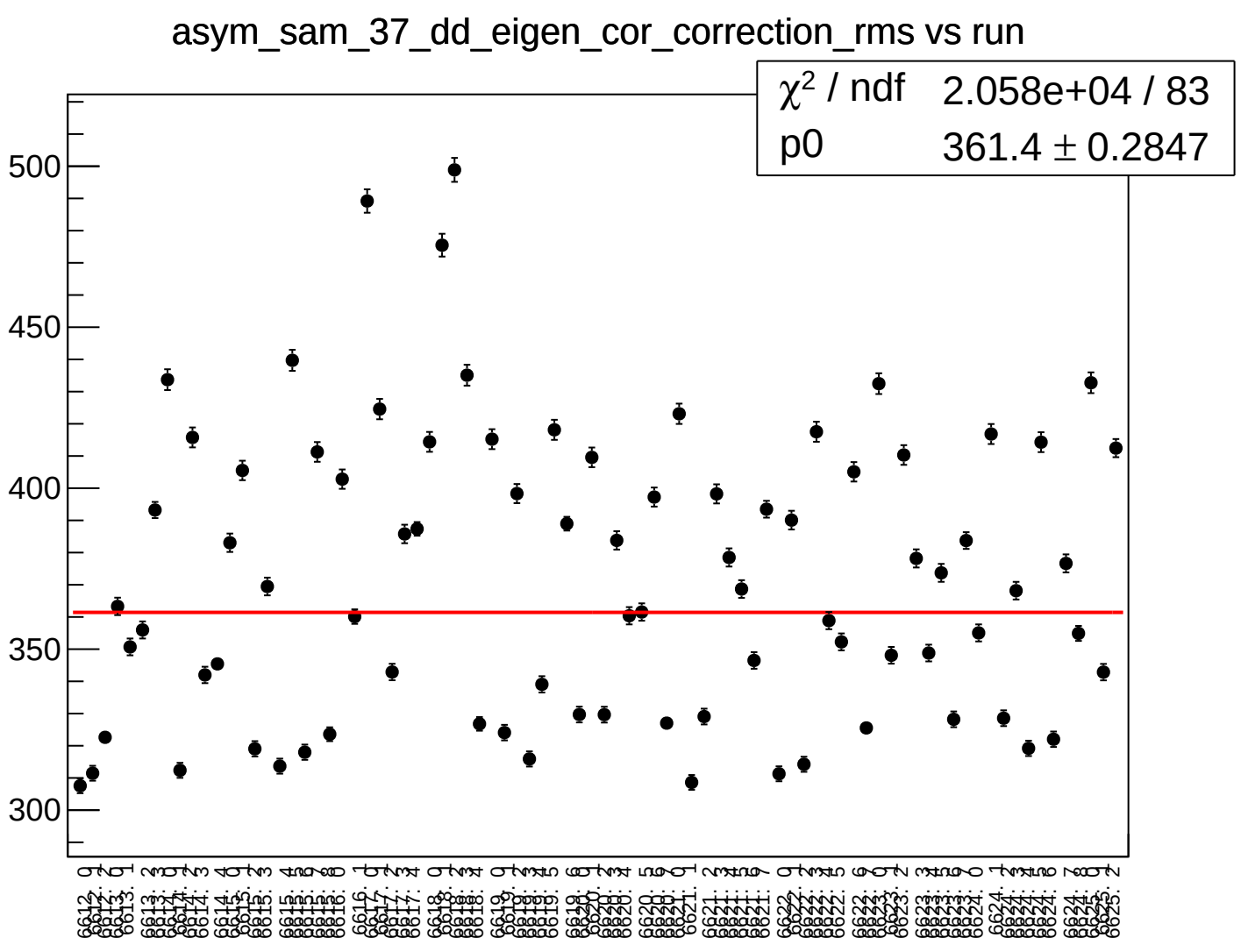

pull1D
Entries 84
Mean 0.009688
Std Dev 0.9447
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

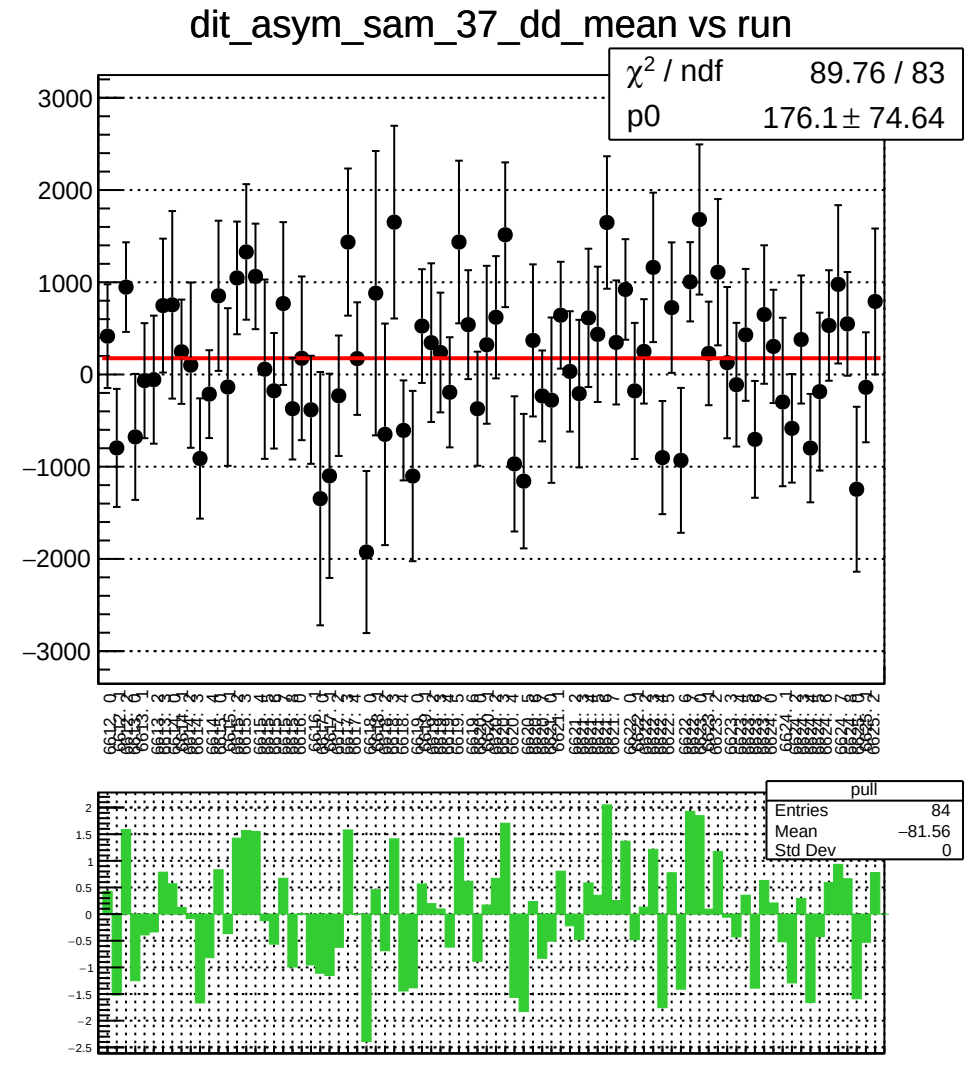

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 2.058e+04 / 83
p0 361.4 ± 0.2847
500
450
400
350
300

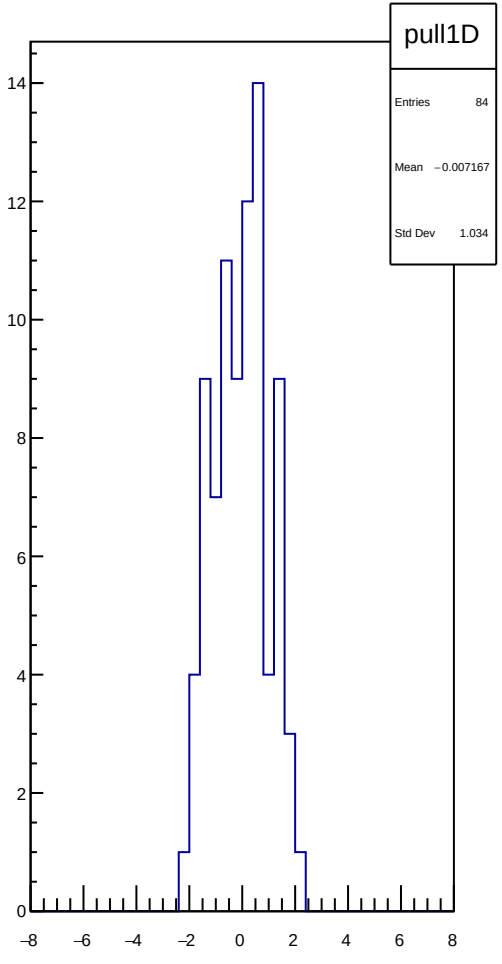

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 94.9 / 83
p0 105.9 ± 65.2
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −287.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.007351
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

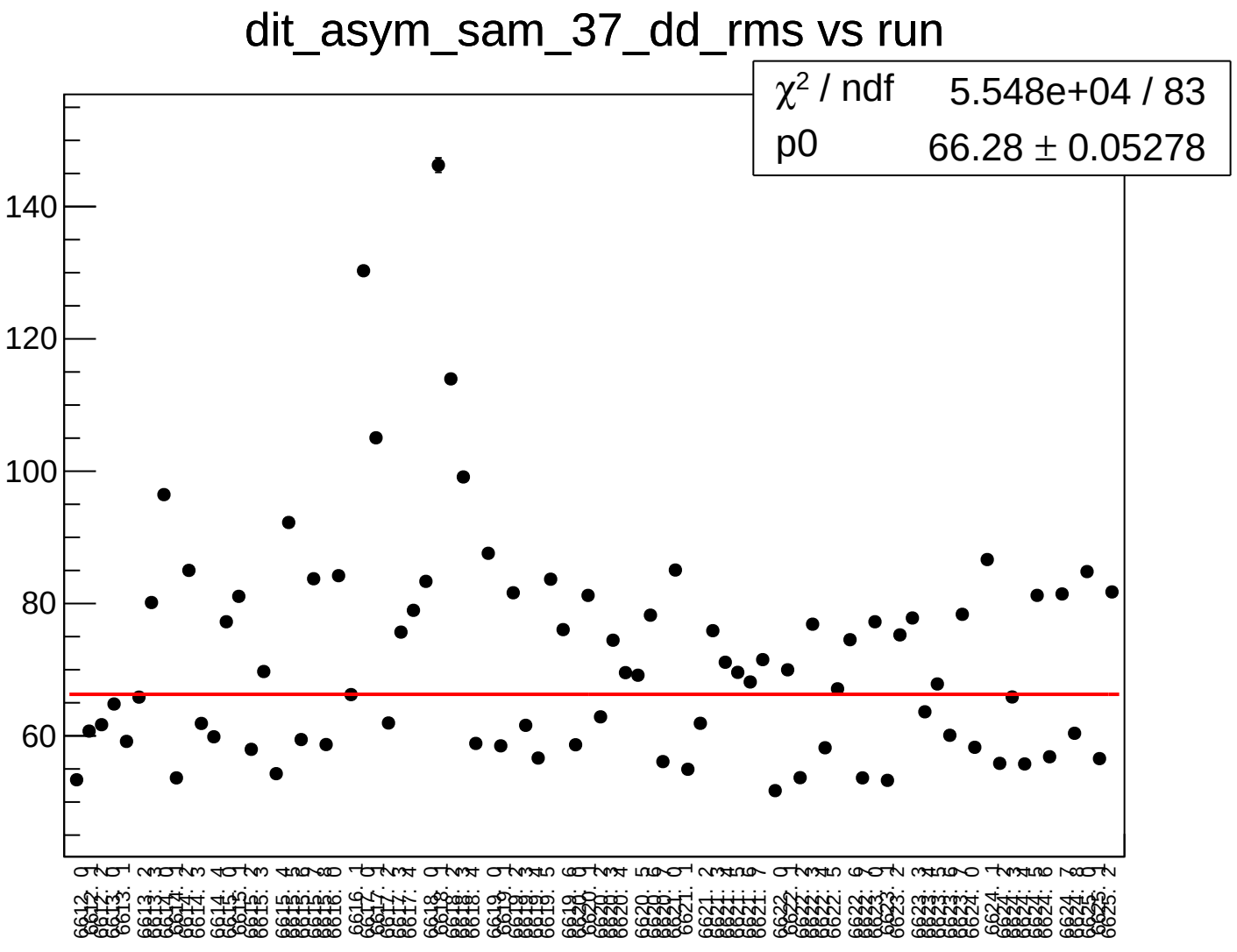

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 3.552e+04 / 83
p0 58.26 ± 0.0461
120
110
100
90
80
70
60
50

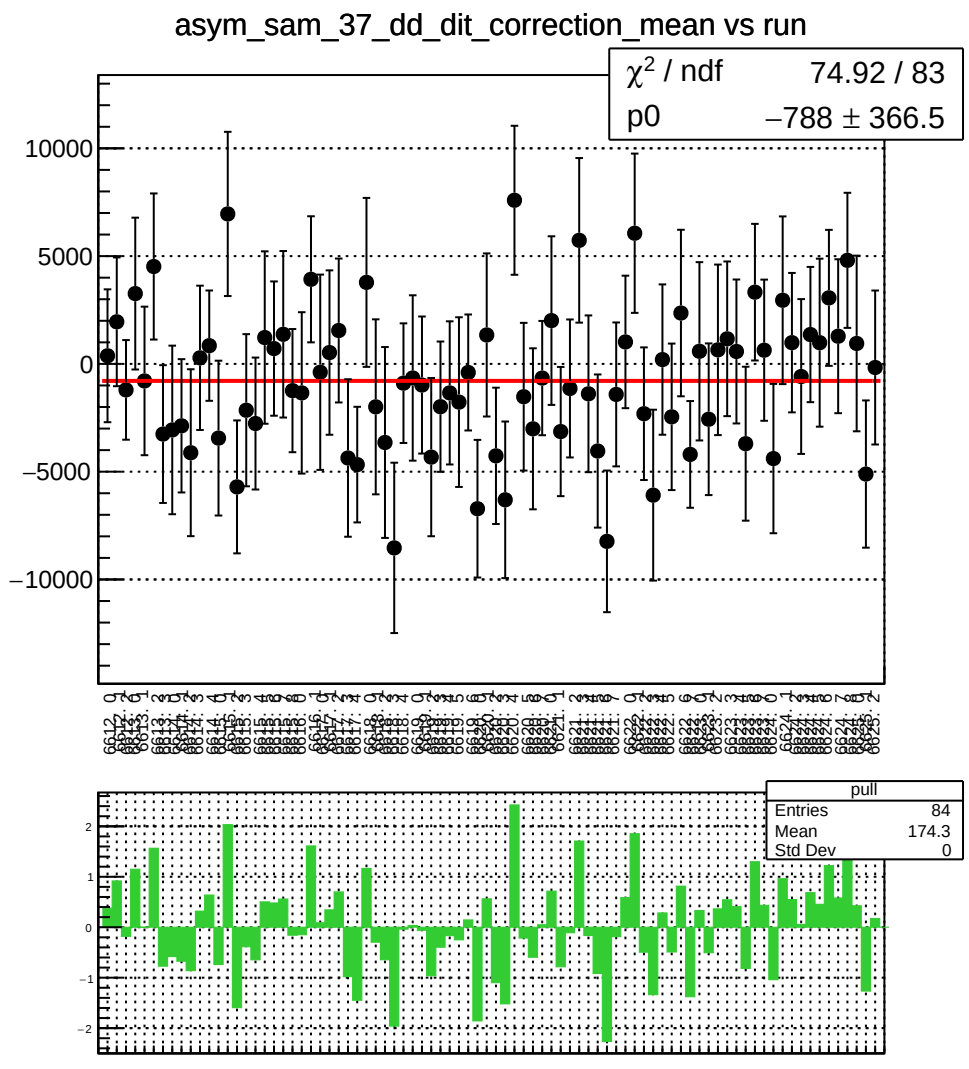

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.98 / 83
p0 −853.8 ± 402.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 200.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.009688
Std Dev 0.9447
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

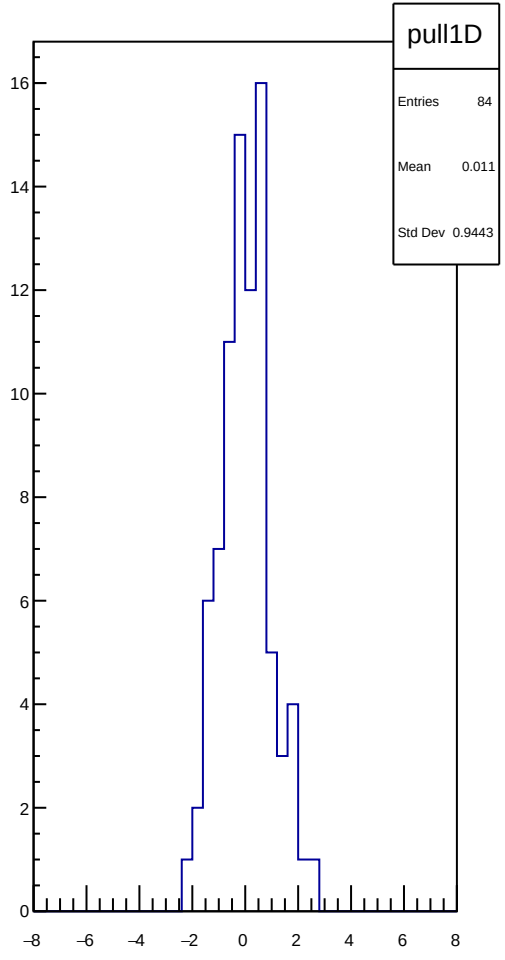

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.058e+04 / 83
p0 361.4 ± 0.2847
500
450
400
350
300

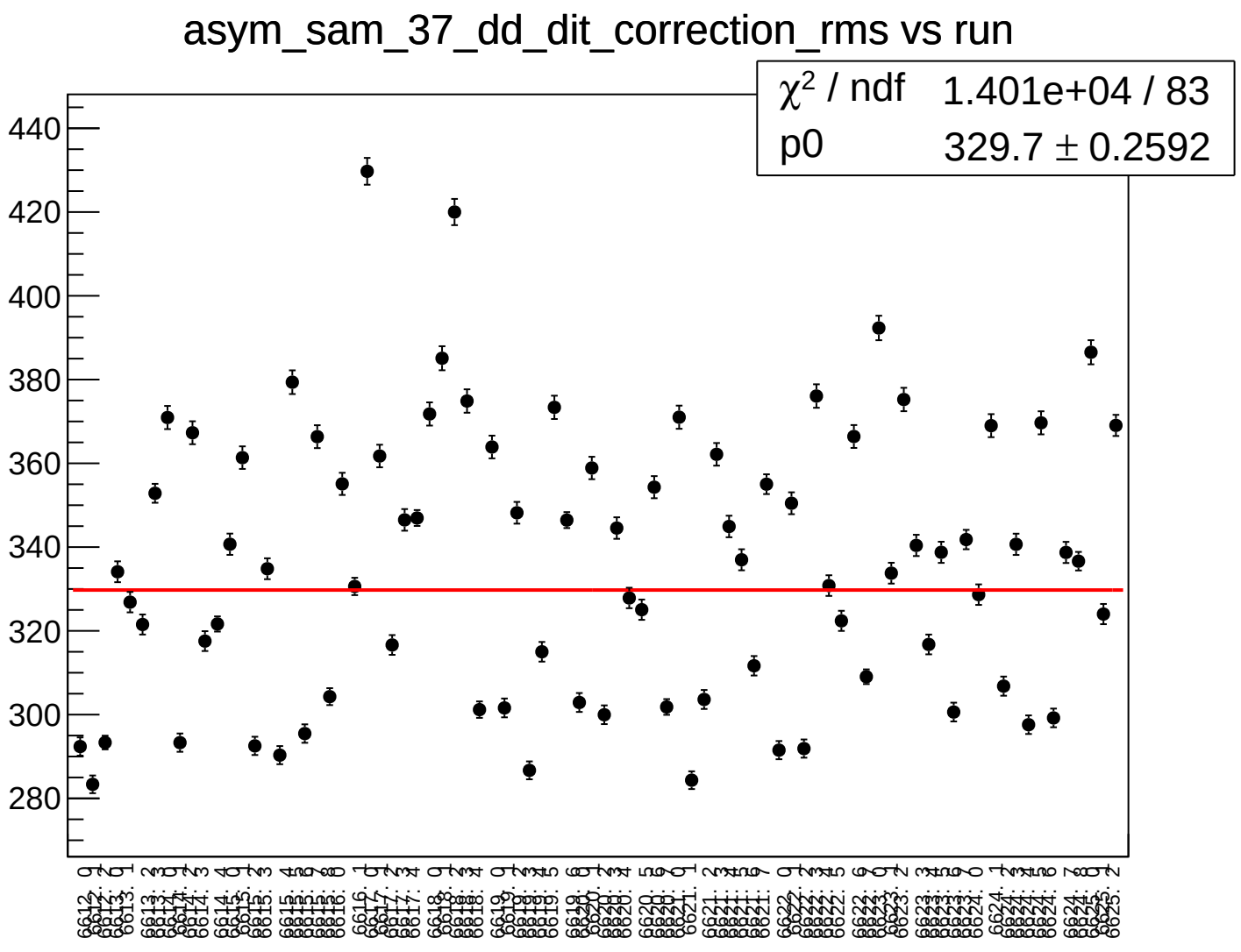

dit_asym_sam_37_dd_mean vs run
χ^2 / ndf 89.76 / 83
p0 176.1 ± 74.64
pull
Entries 84
Mean −81.56
Std Dev 0

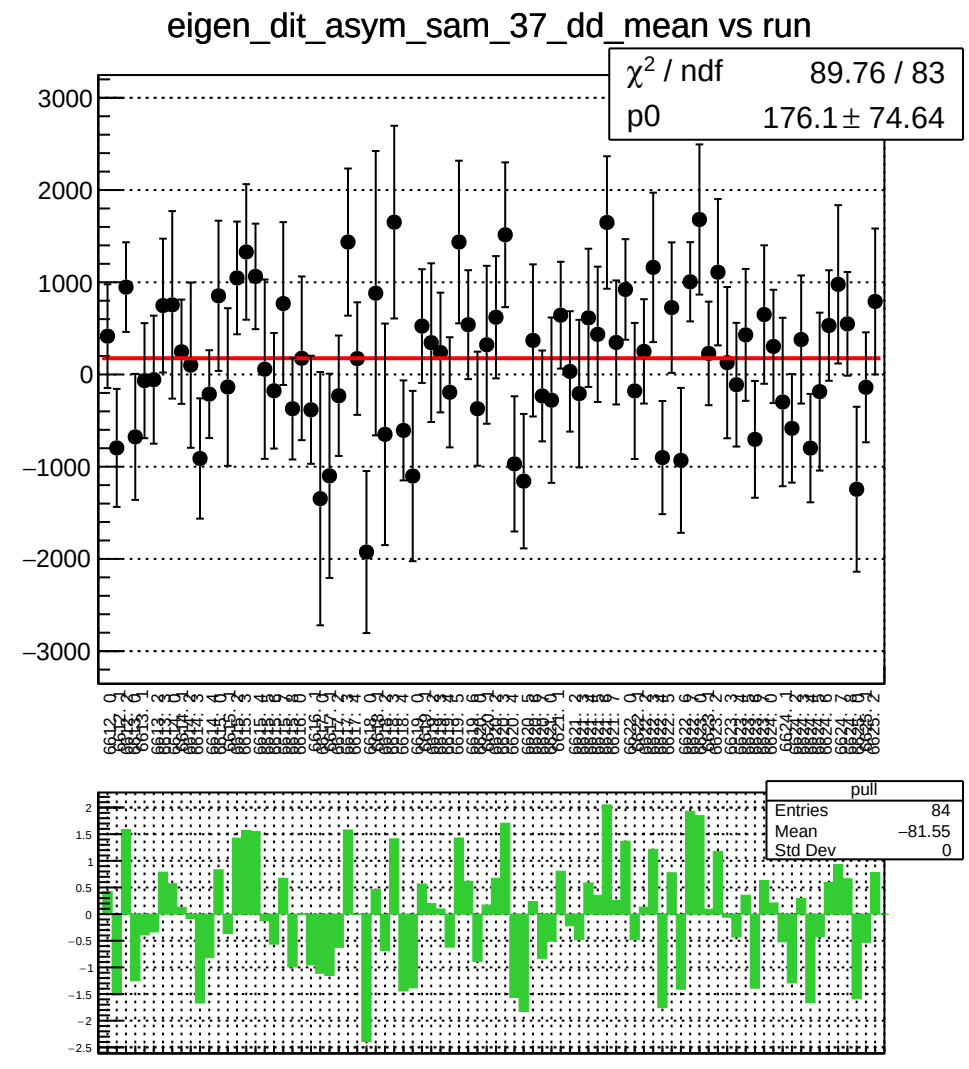

pull1D
Entries 84
Mean −0.007167
Std Dev 1.034

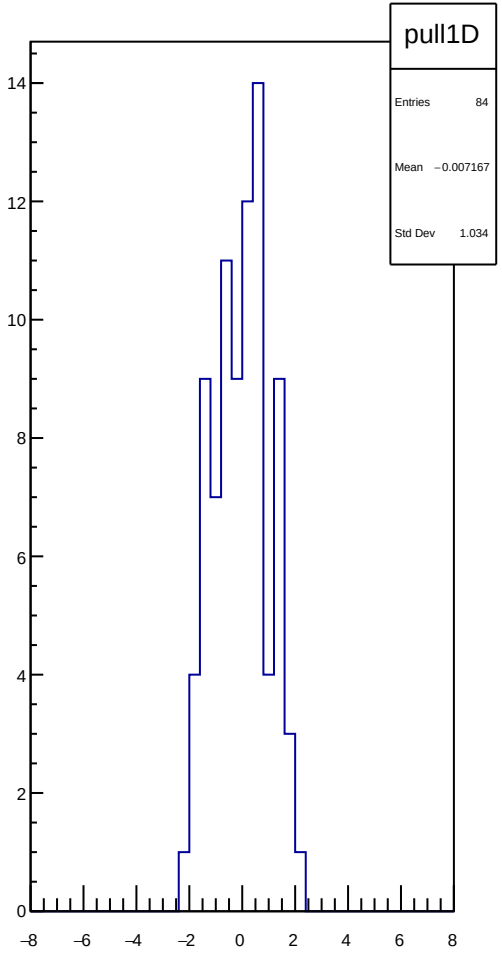

dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 5.548e+04 / 83
p0 66.28 ± 0.05278
140
120
100
80
60

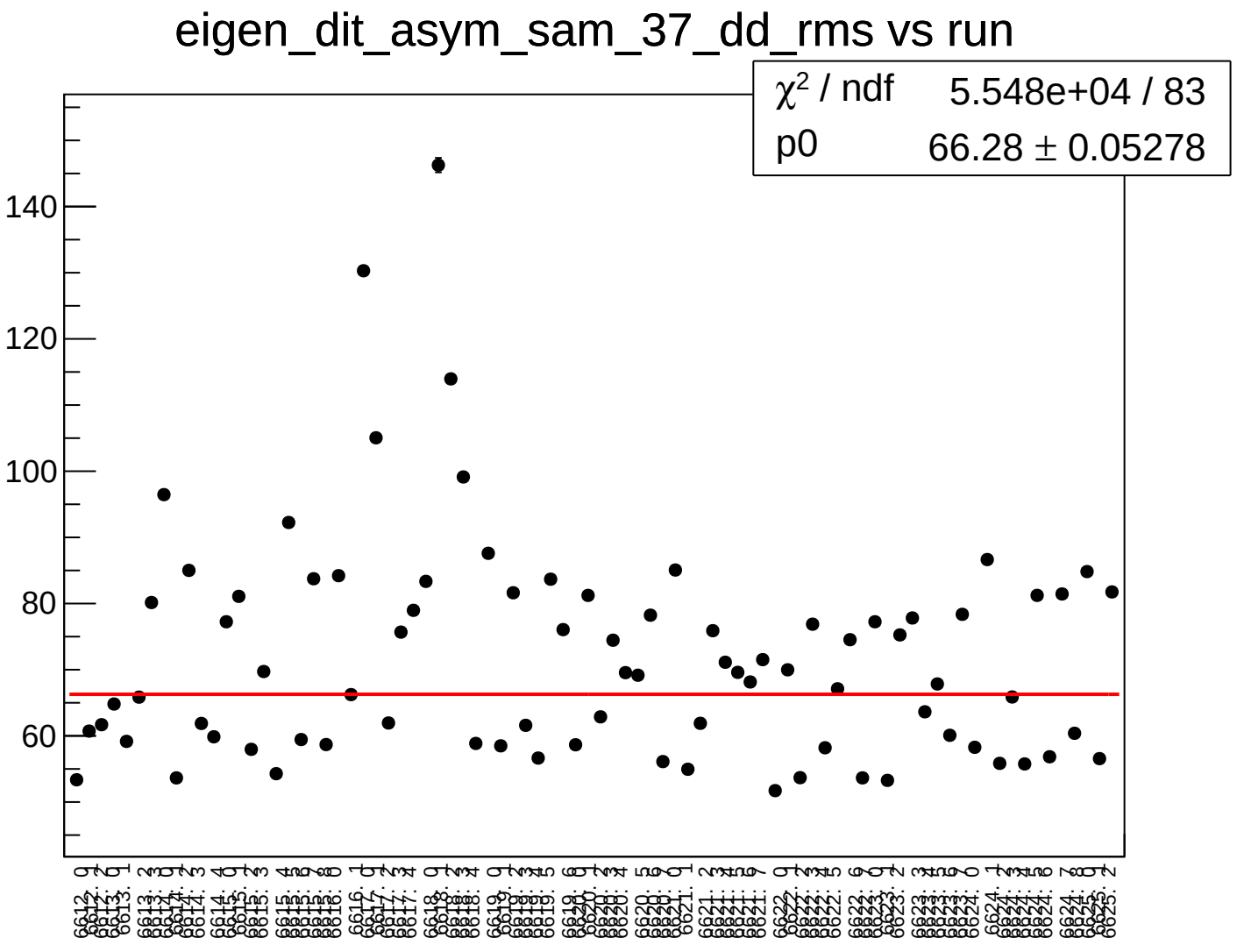

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 74.92 / 83
p0 −788 ± 366.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 174.3
Std Dev 0
2
1
0
−1
−2

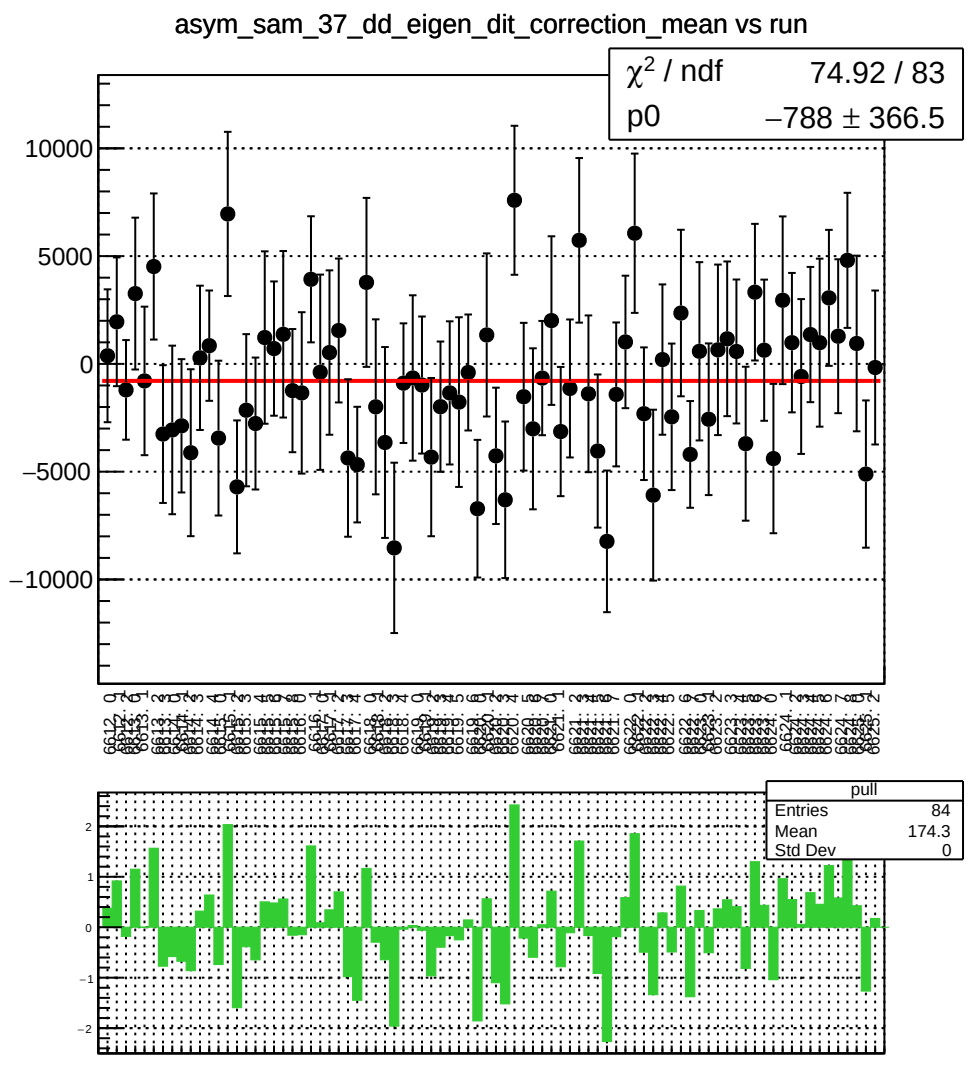

pull1D
Entries 84
Mean 0.011
Std Dev 0.9443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

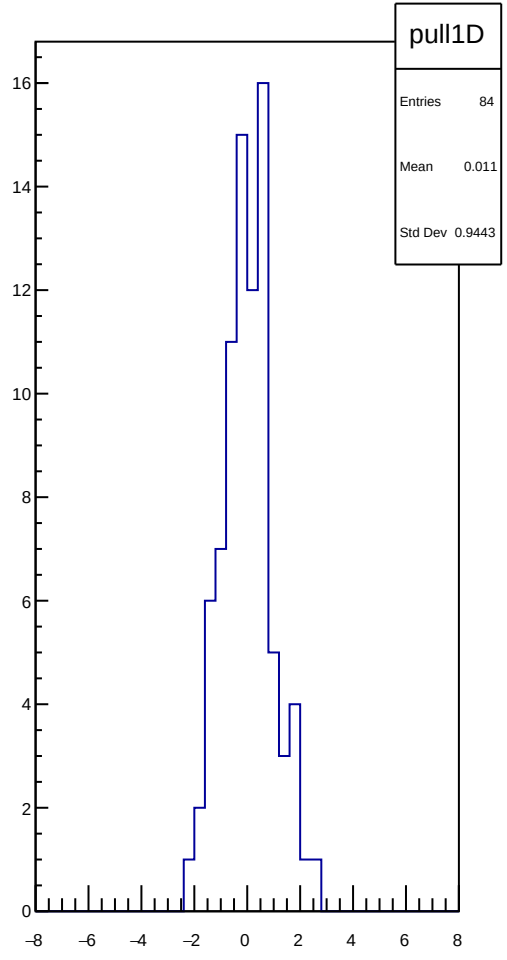

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 1.401e+04 / 83
p0 329.7 ± 0.2592
440
420
400
380
360
340
320
300
280

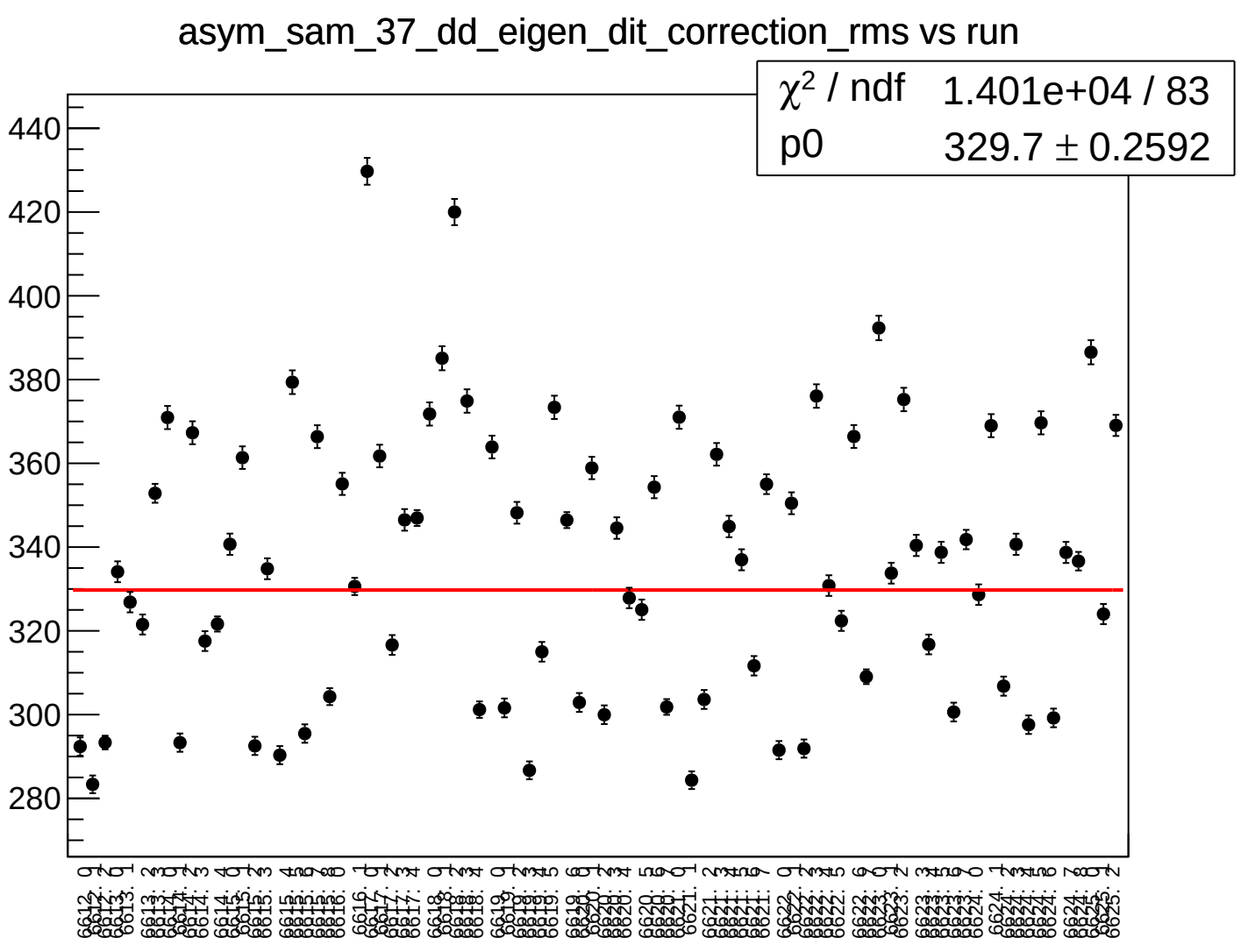

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 89.76 / 83
p0 176.1 ± 74.64
pull
Entries 84
Mean −81.55
Std Dev 0

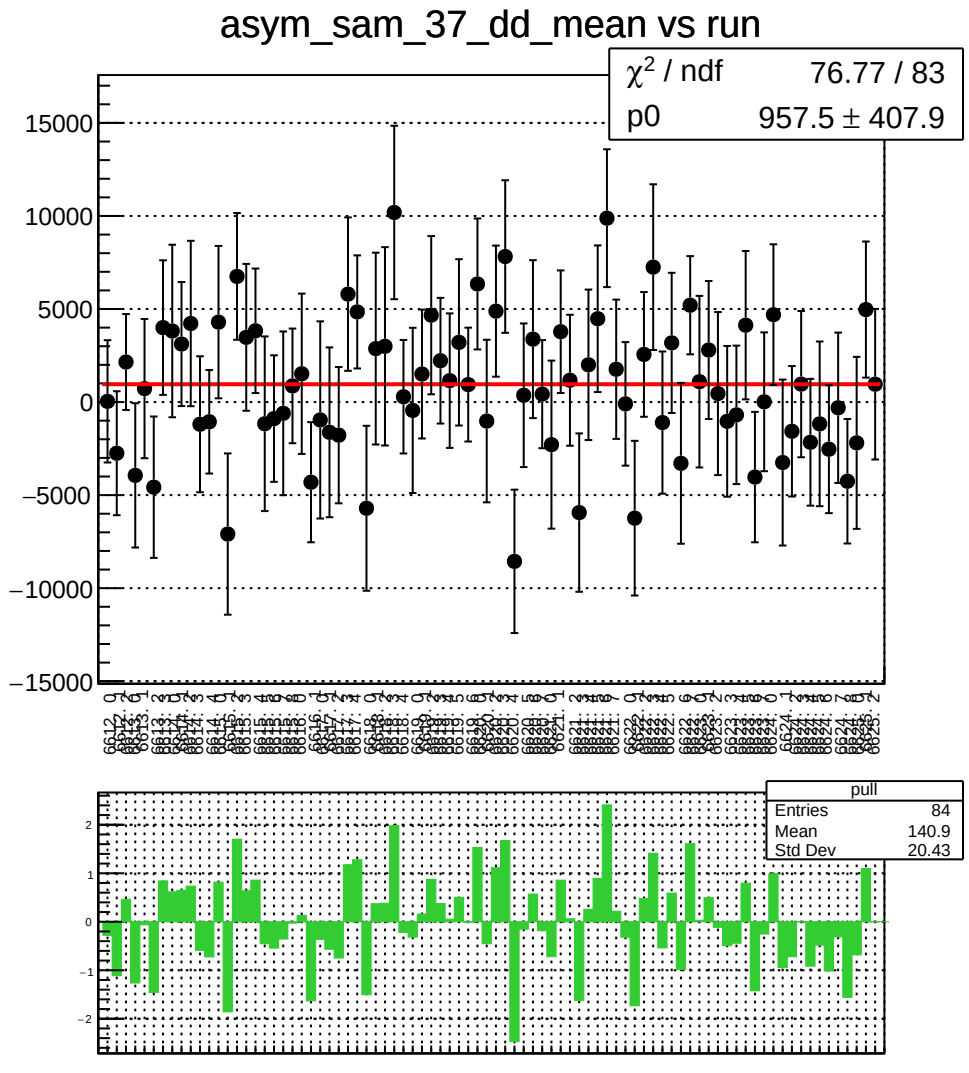

pull1D
Entries 84
Mean −0.007167
Std Dev 1.034

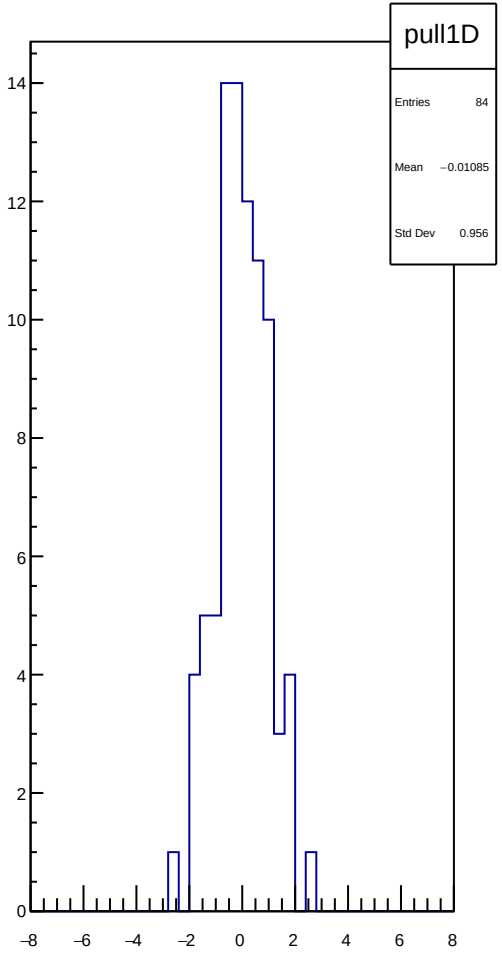

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 5.548e+04 / 83
p0 66.28 ± 0.05278
140
120
100
80
60

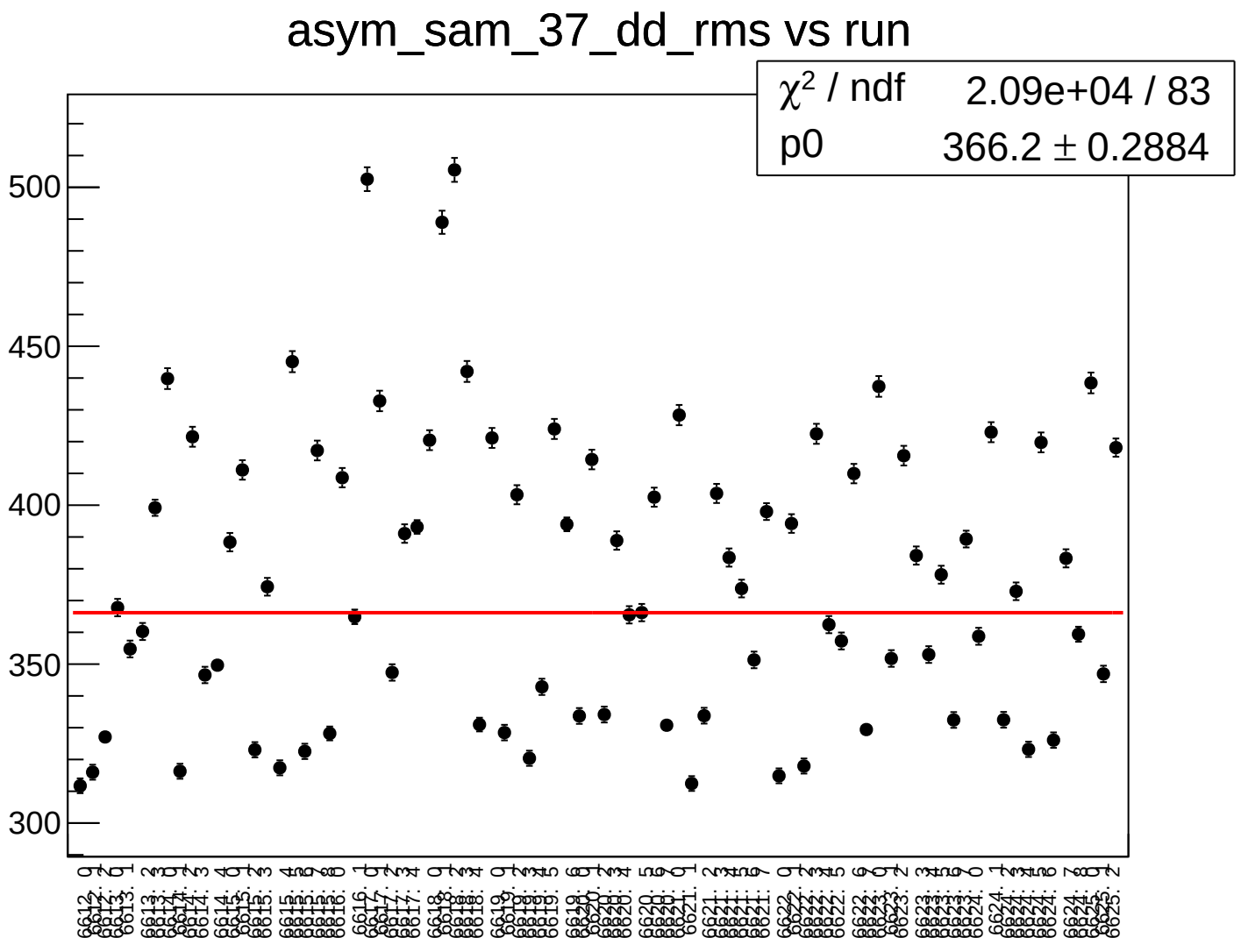

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.92 / 83
p0 −788 ± 366.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 174.3
Std Dev 0
2
1
0
−1
−2

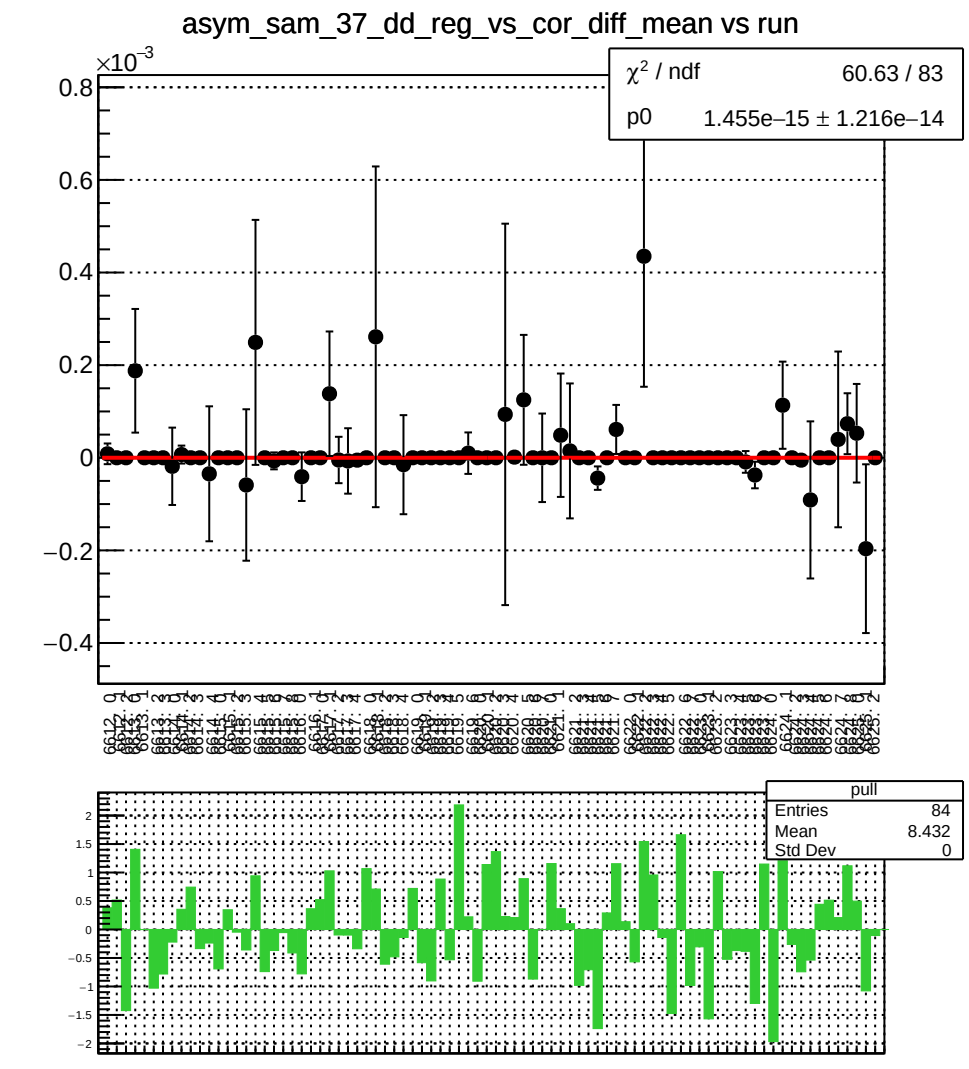

pull1D
Entries 84
Mean 0.011
Std Dev 0.9443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

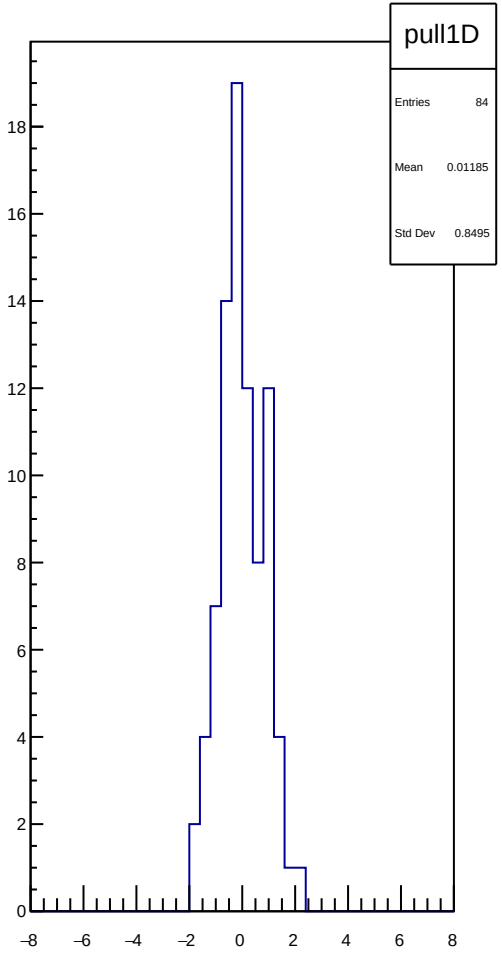

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 1.401e+04 / 83
p0 329.7 ± 0.2592
440
420
400
380
360
340
320
300
280

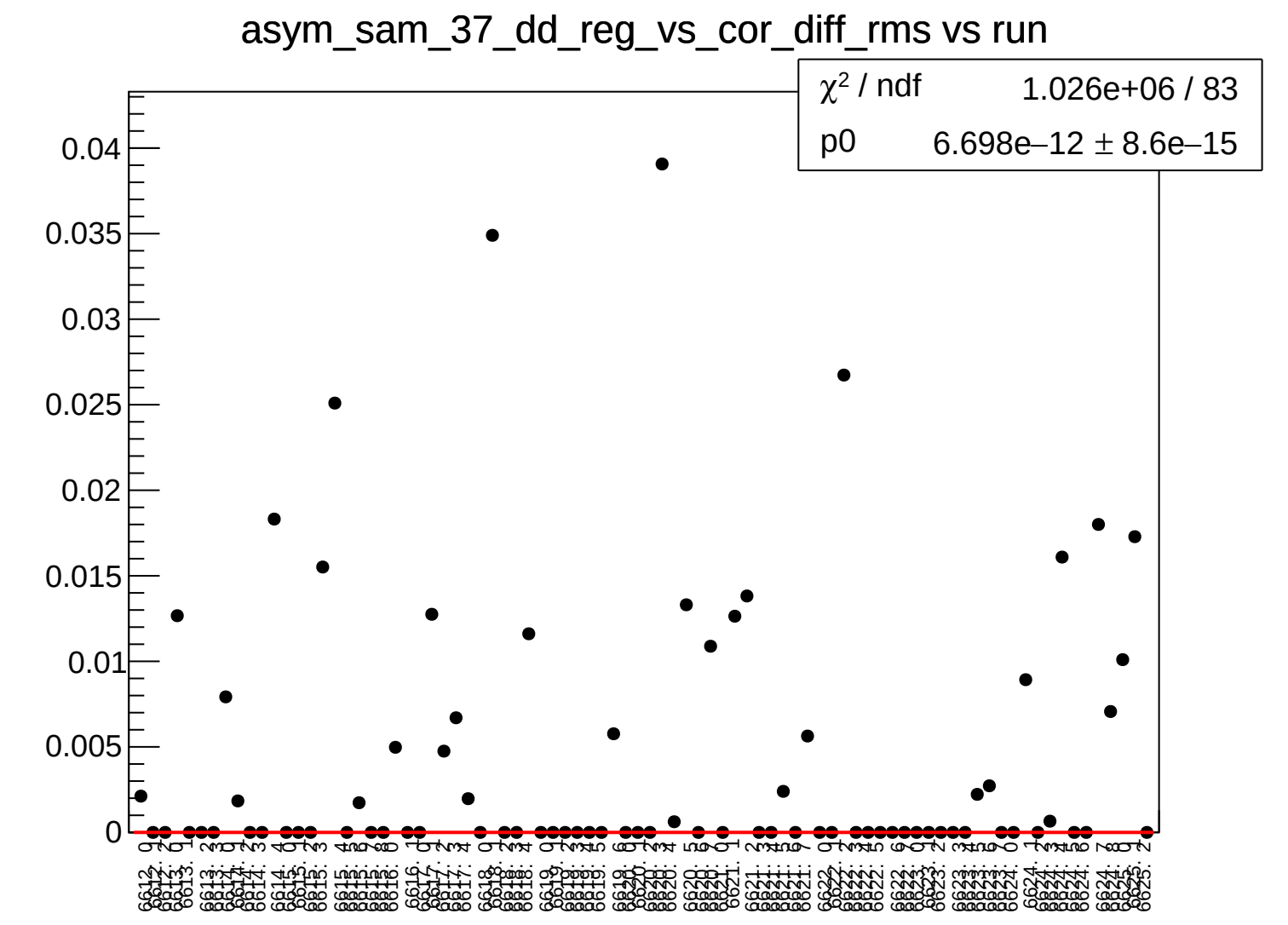

asym_sam_37_dd_mean vs run
χ² / ndf 76.77 / 83
p0 957.5 ± 407.9
pull
Entries 84
Mean 140.9
Std Dev 20.43

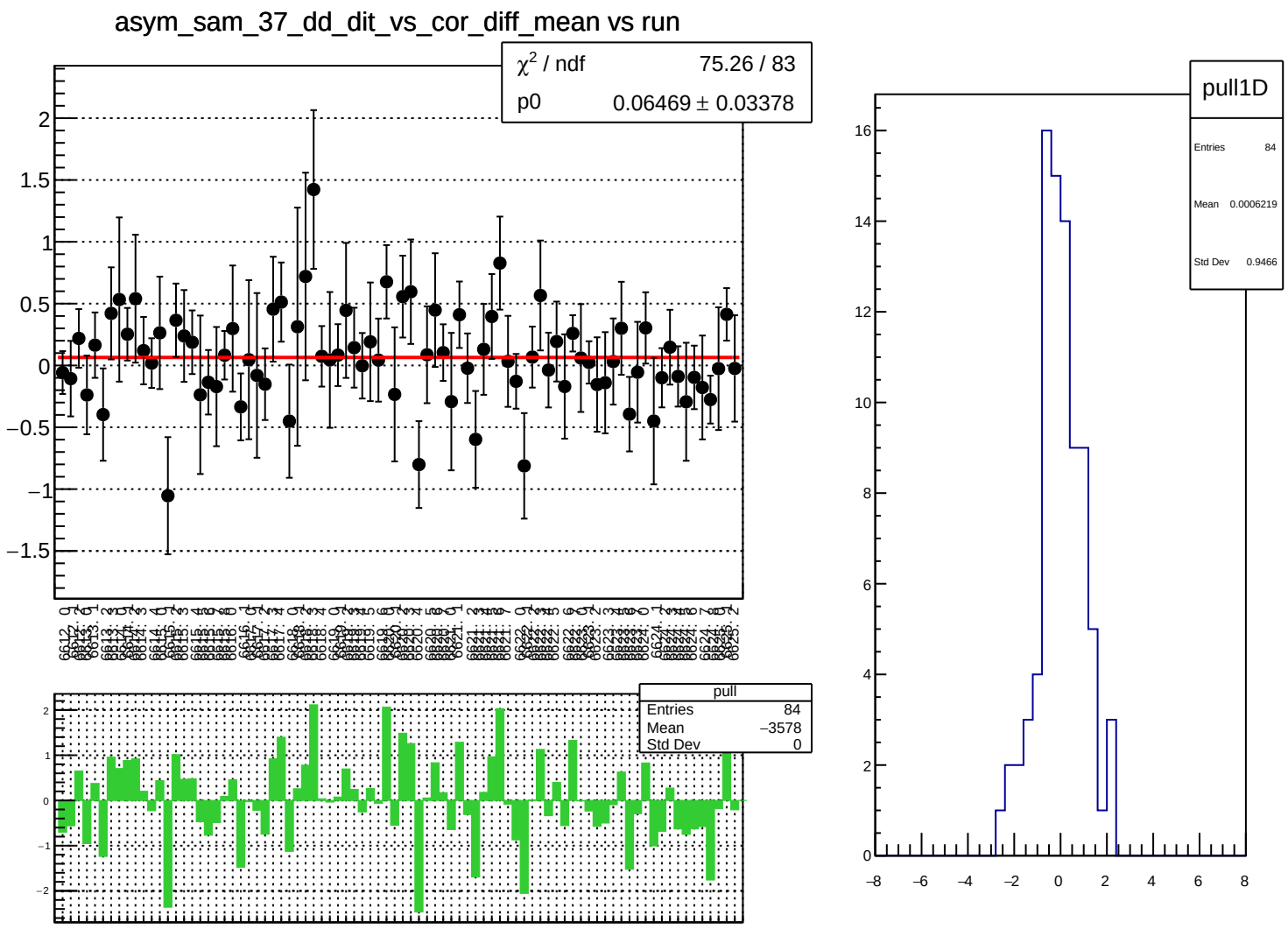

pull1D
Entries 84
Mean −0.01085
Std Dev 0.956

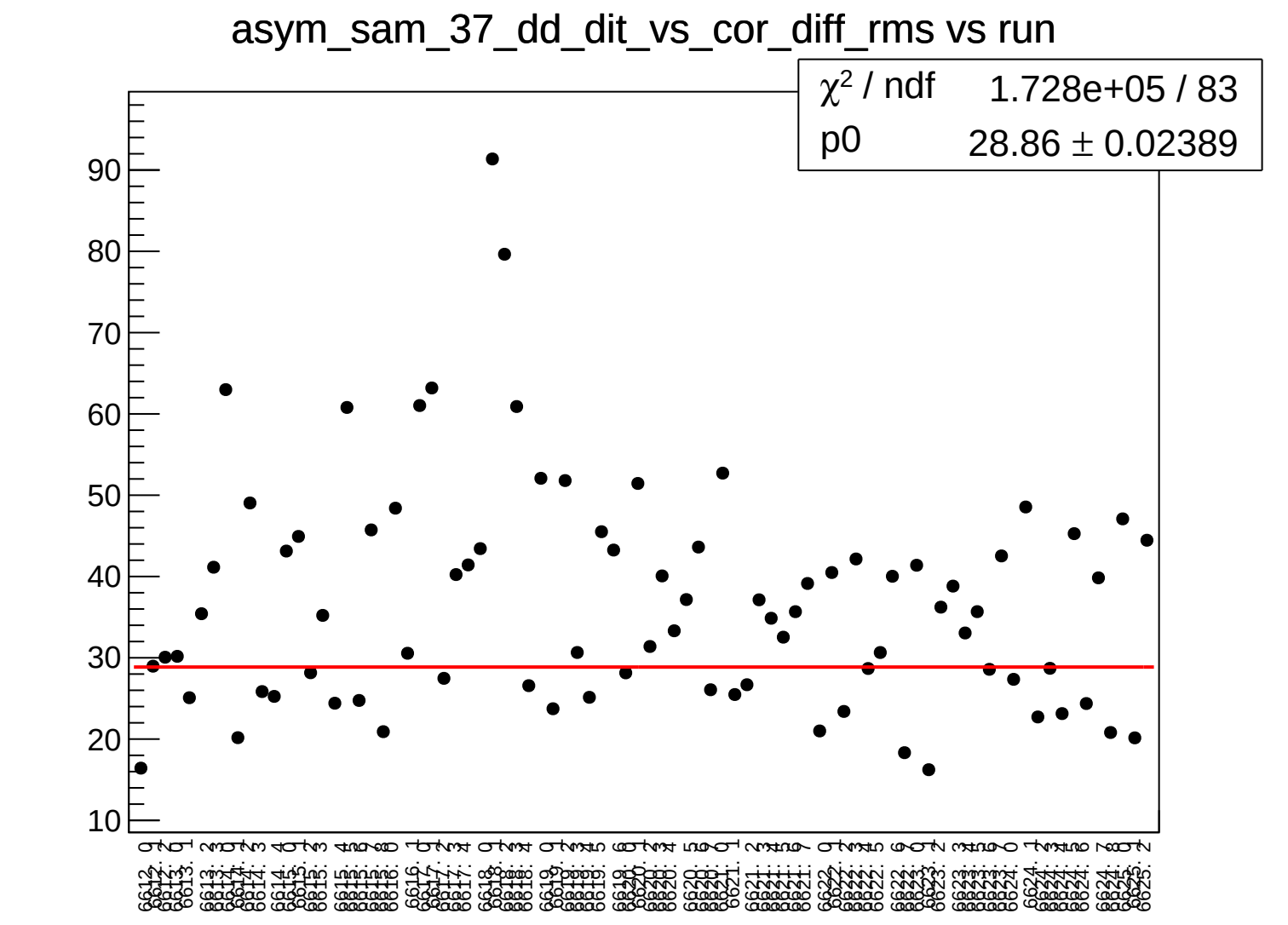

asym_sam_37_dd_rms vs run
χ² / ndf 2.09e+04 / 83
p0 366.2 ± 0.2884
500
450
400
350
300

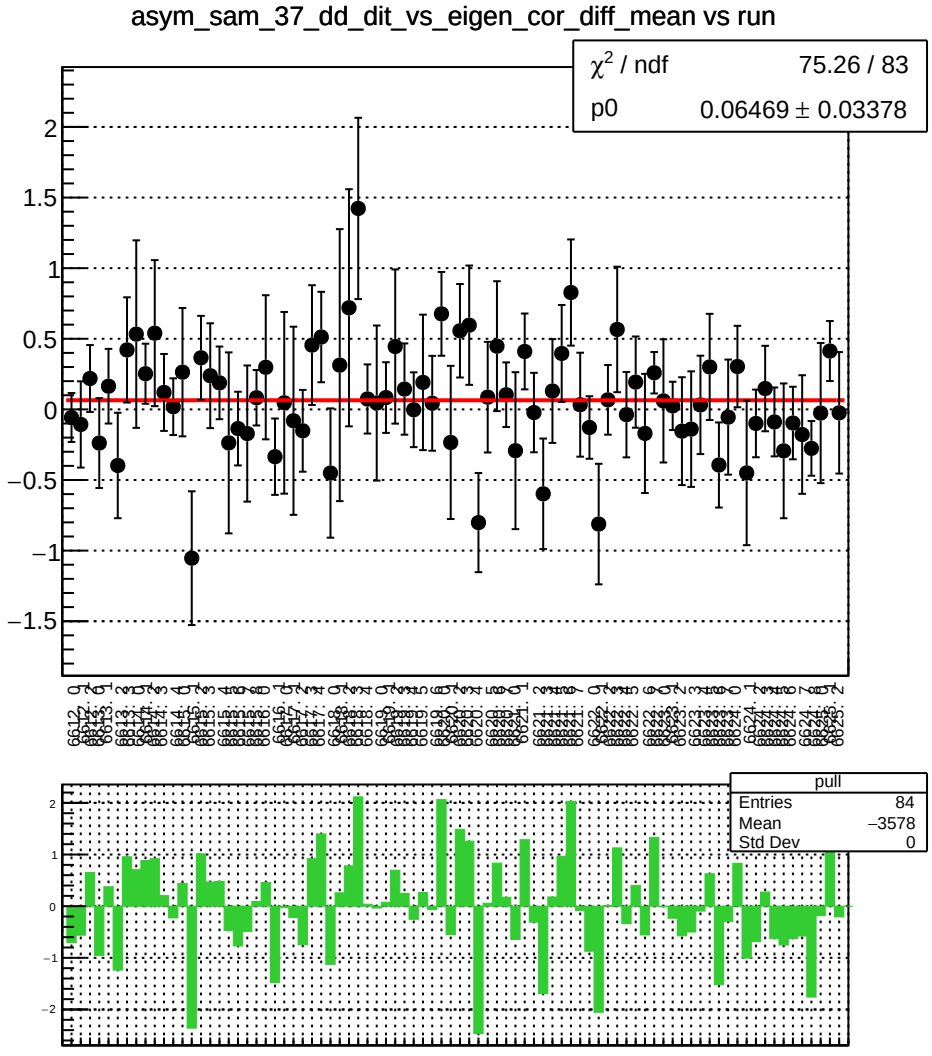

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 60.63 / 83
p0 1.455e−15 ± 1.216e−14
pull
Entries 84
Mean 8.432
Std Dev 0

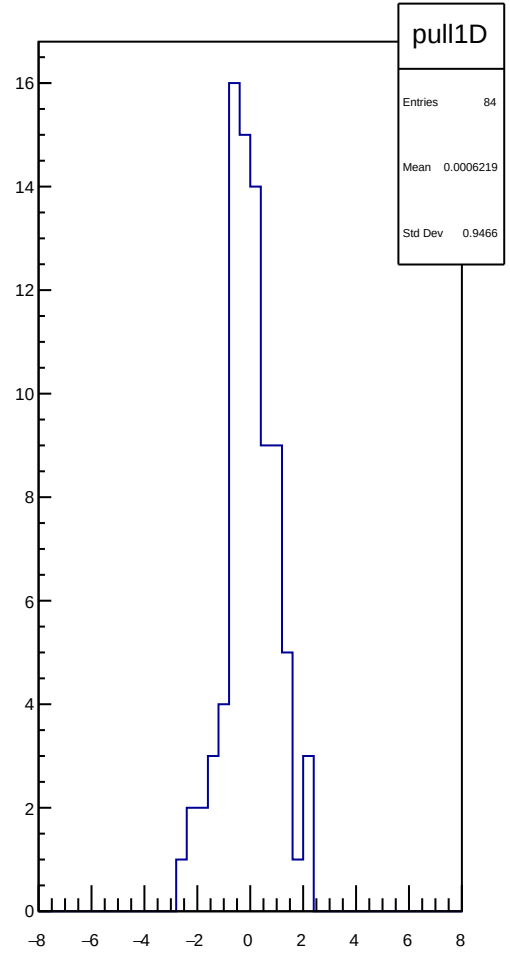

pull1D
Entries 84
Mean 0.01185
Std Dev 0.8495

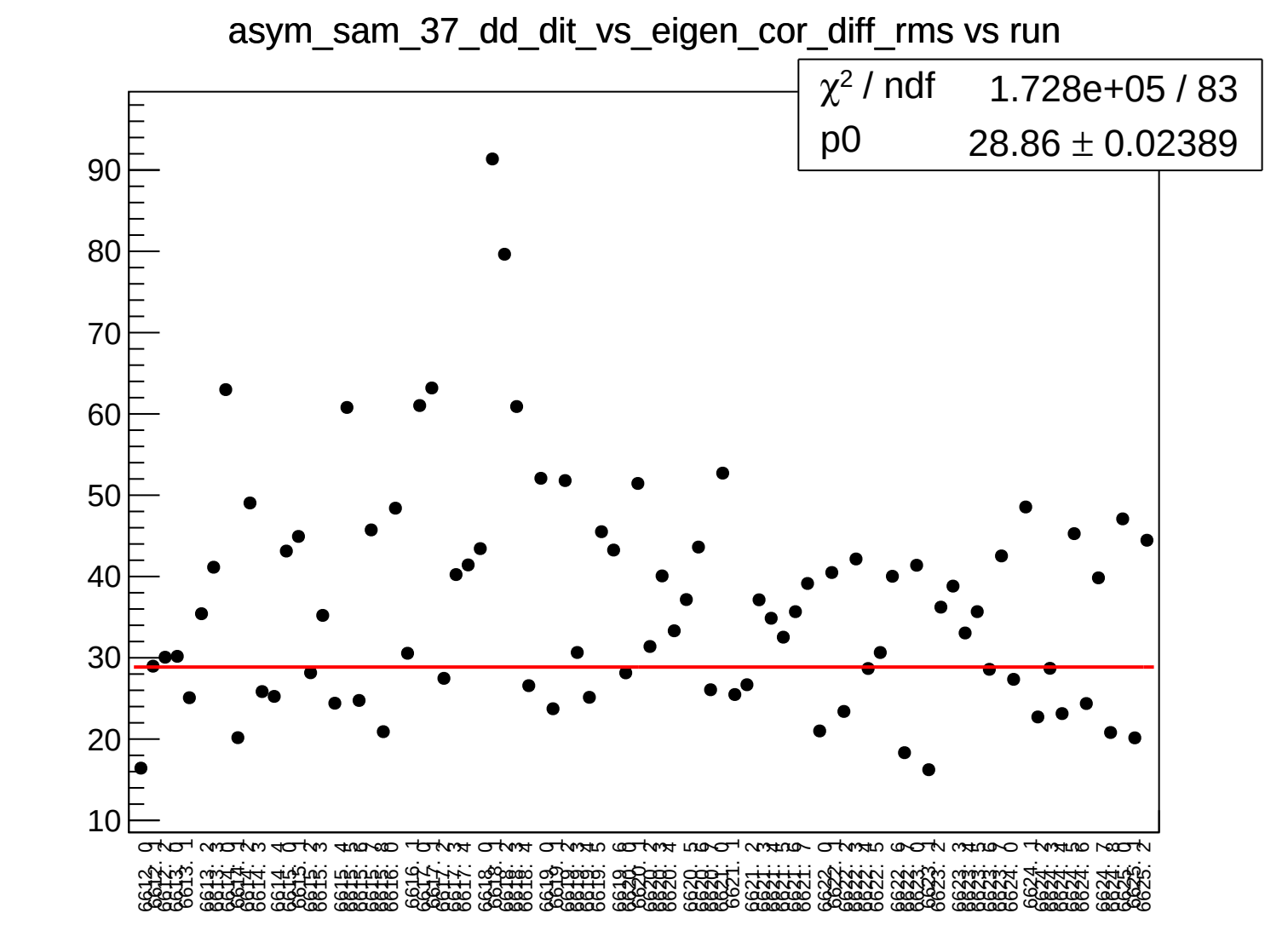

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.026e+06 / 83
p0 6.698e−12 ± 8.6e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

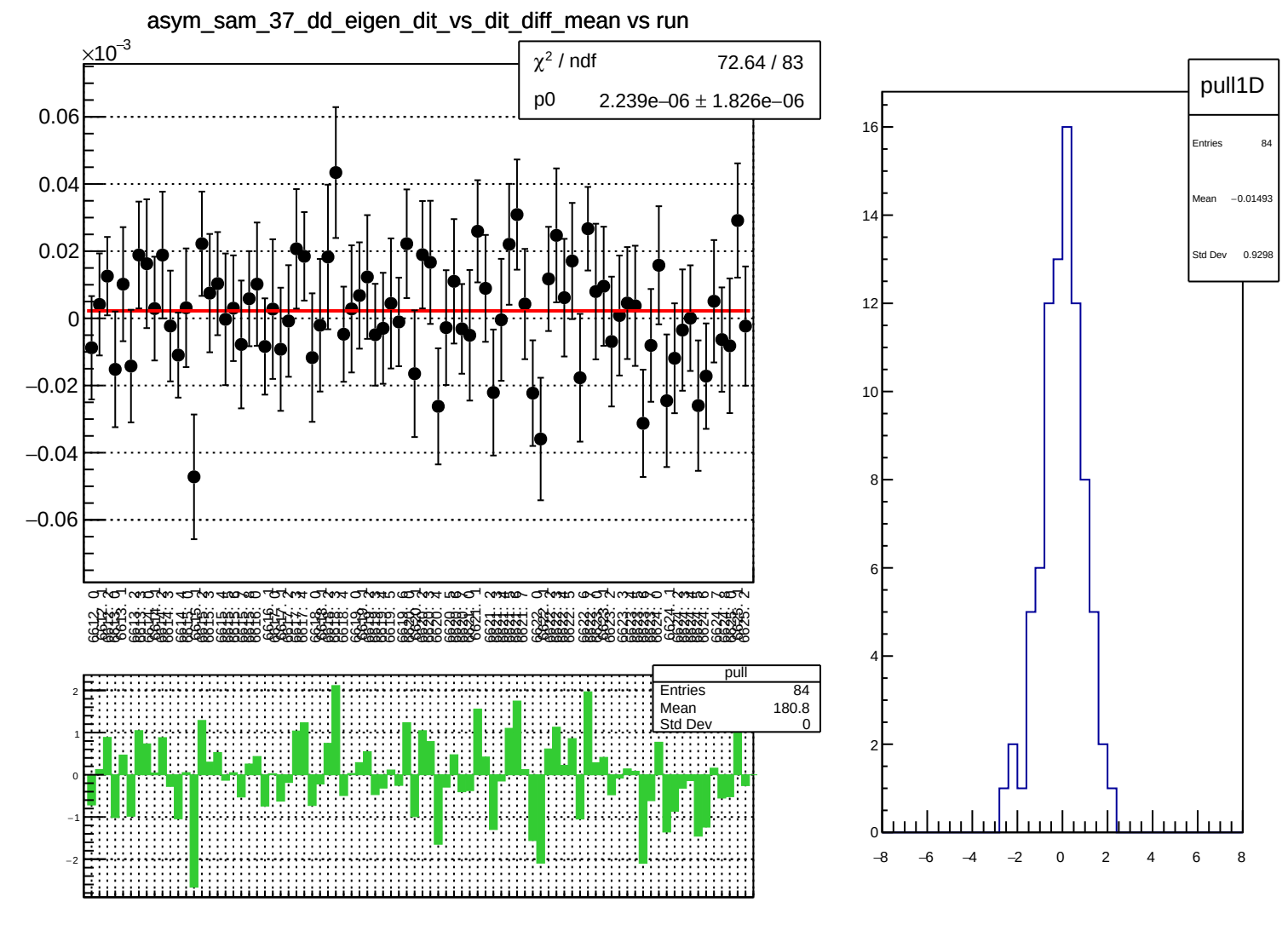

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.26 / 83
p0 0.06469 ± 0.03378
pull
Entries 84
Mean −3578
Std Dev 0
pull1D
Entries 84
Mean 0.0006219
Std Dev 0.9466

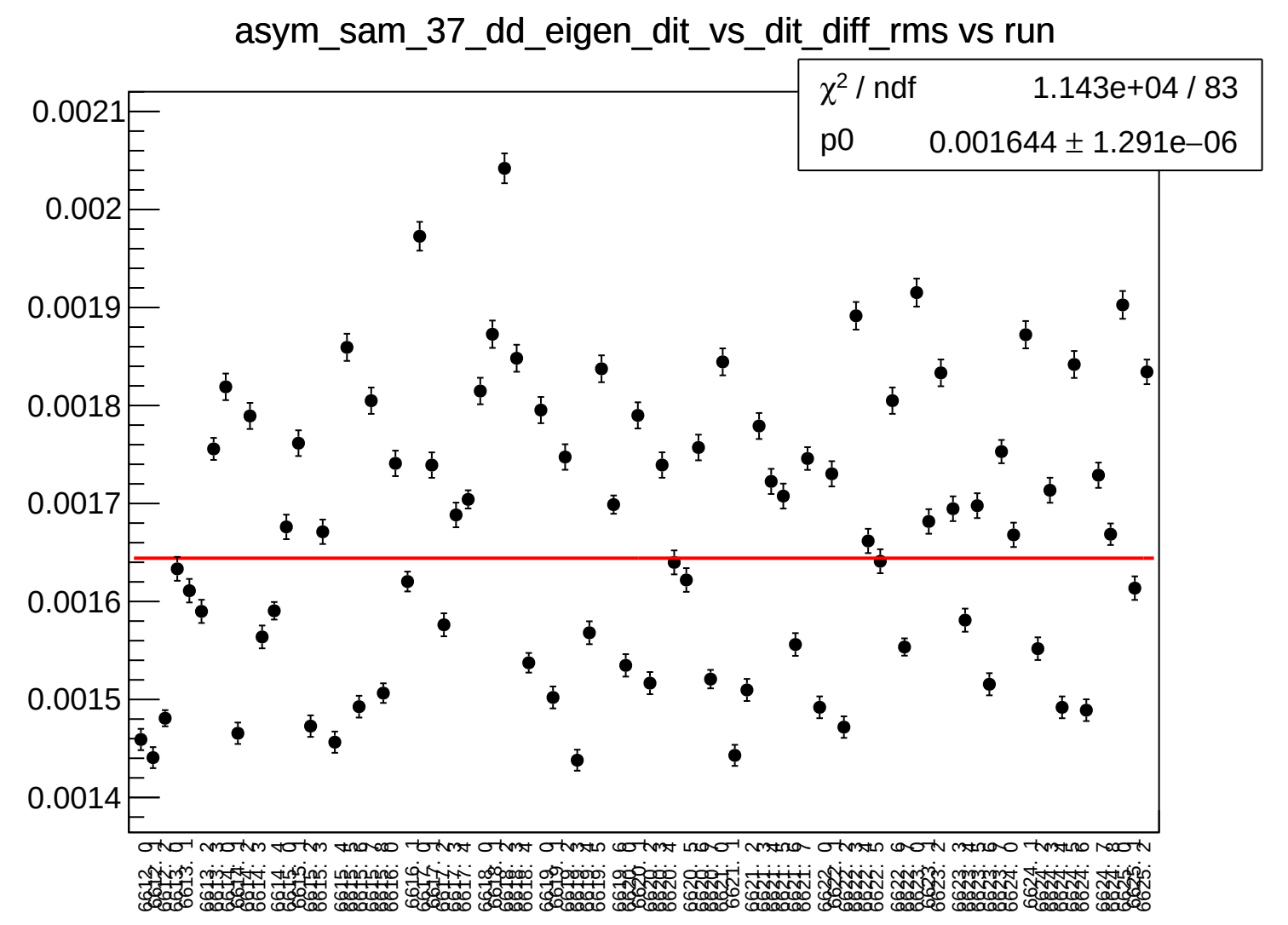

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.728e+05 / 83
p0 28.86 ± 0.02389
90
80
70
60
50
40
30
20
10

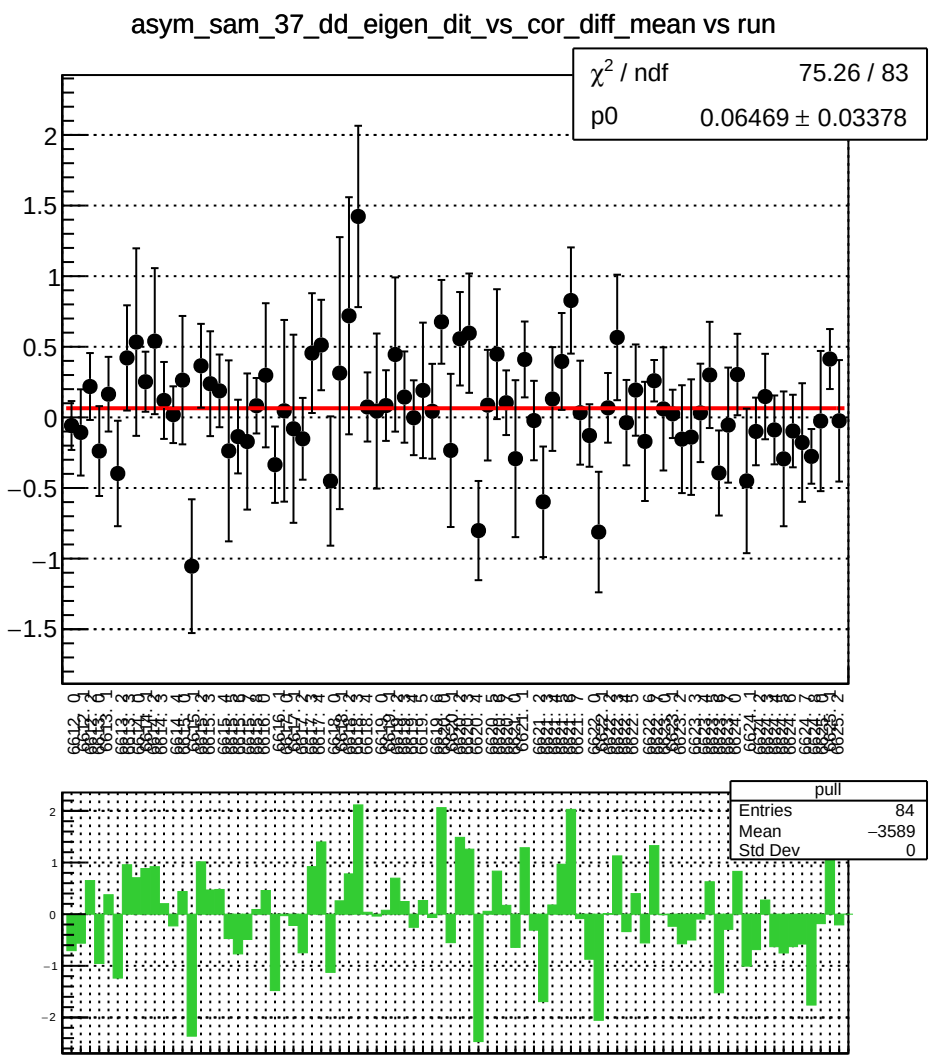

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.26 / 83
p0 0.06469 ± 0.03378
pull
Entries 84
Mean −3578
Std Dev 0

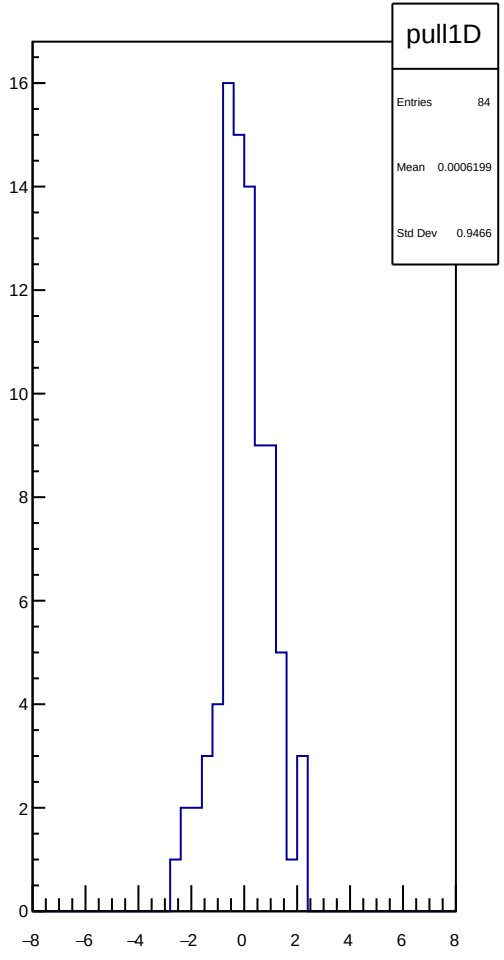

pull1D
Entries 84
Mean 0.0006219
Std Dev 0.9466

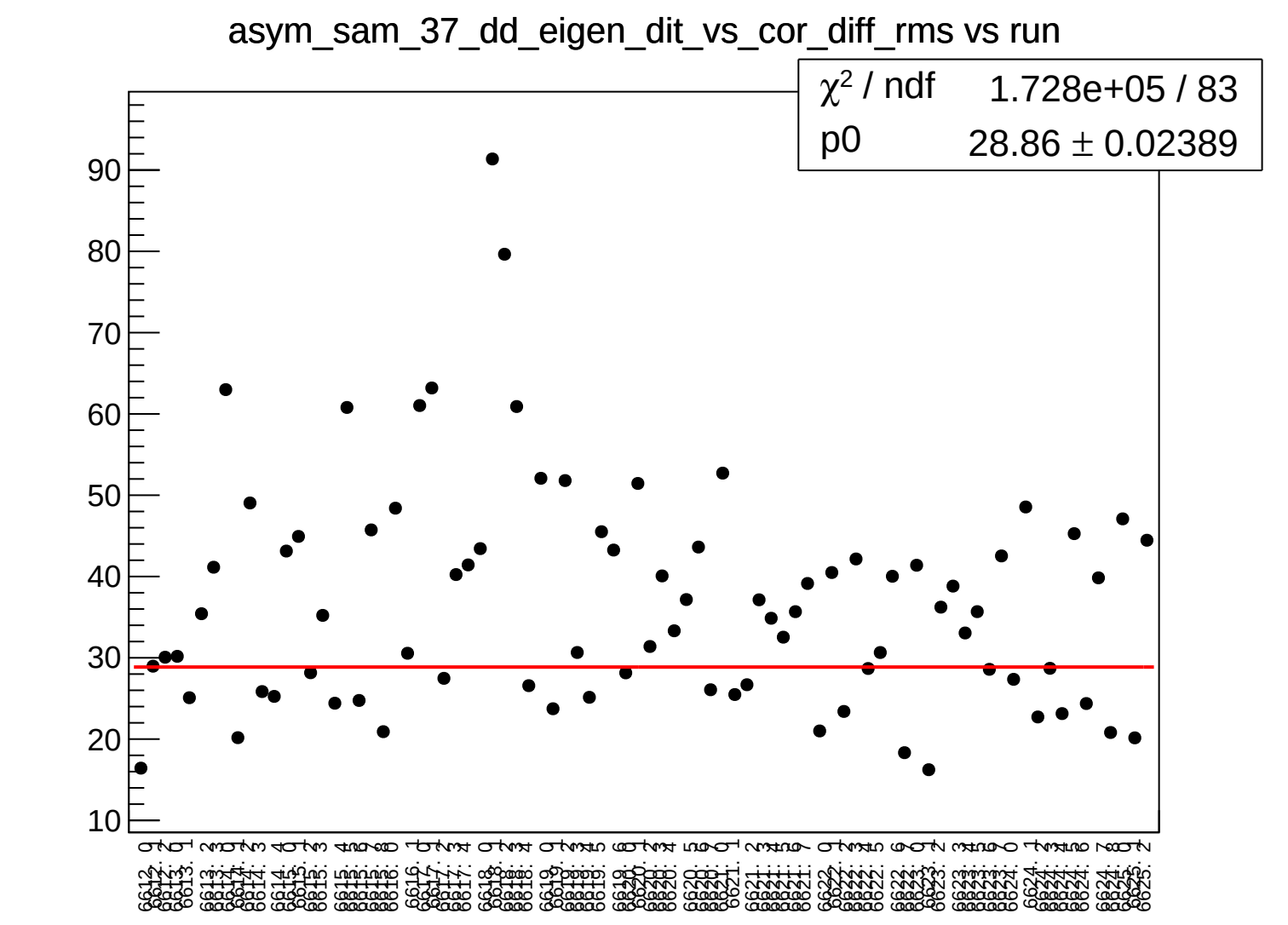

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.728e+05 / 83
p0 28.86 ± 0.02389
90
80
70
60
50
40
30
20
10

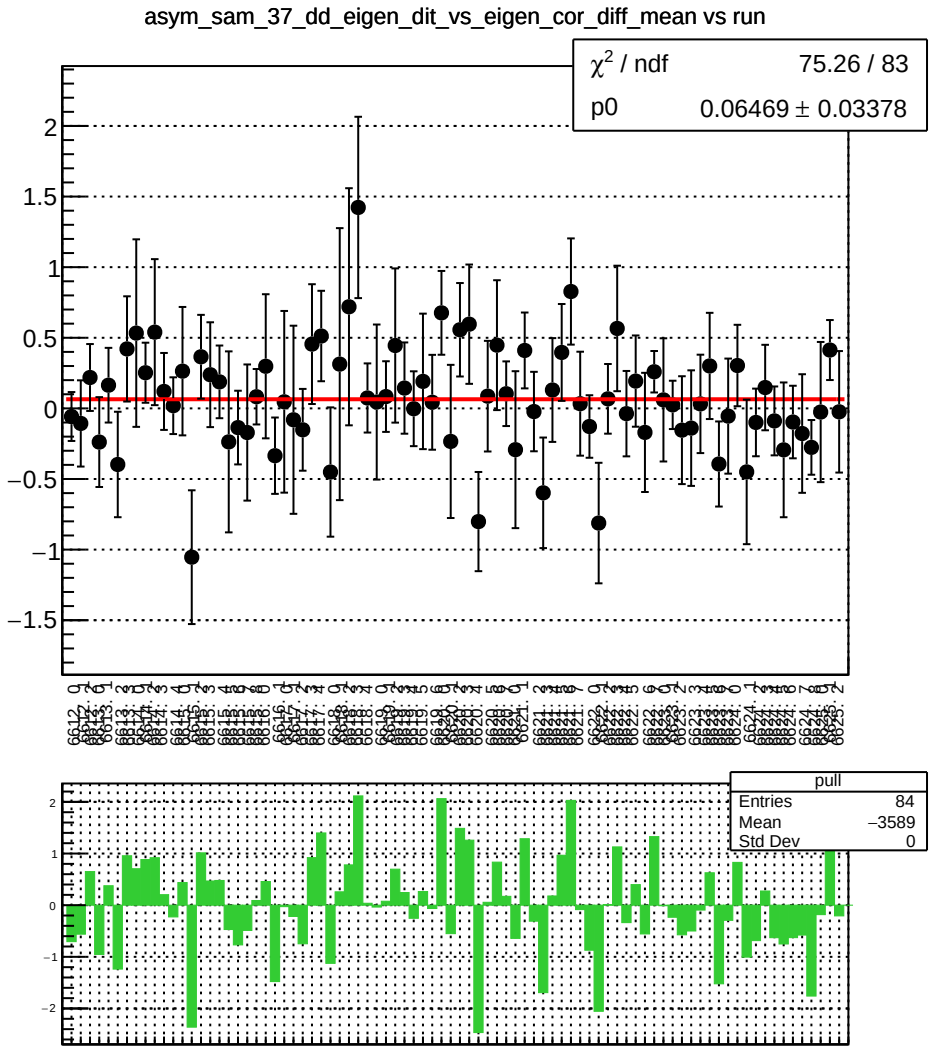

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.64 / 83
p0 2.239e−06 ± 1.826e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 84
Mean 180.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01493
Std Dev 0.9298
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

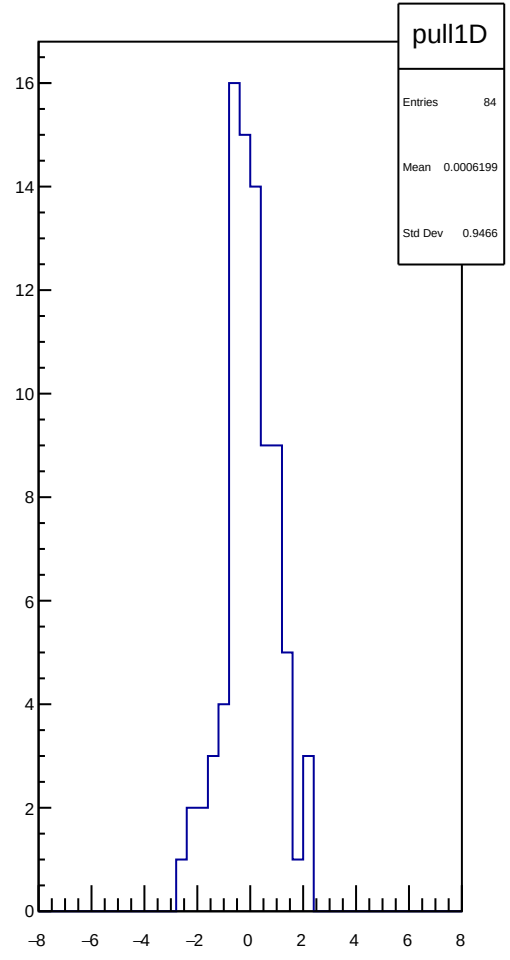

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.143e+04 / 83
p0 0.001644 ± 1.291e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

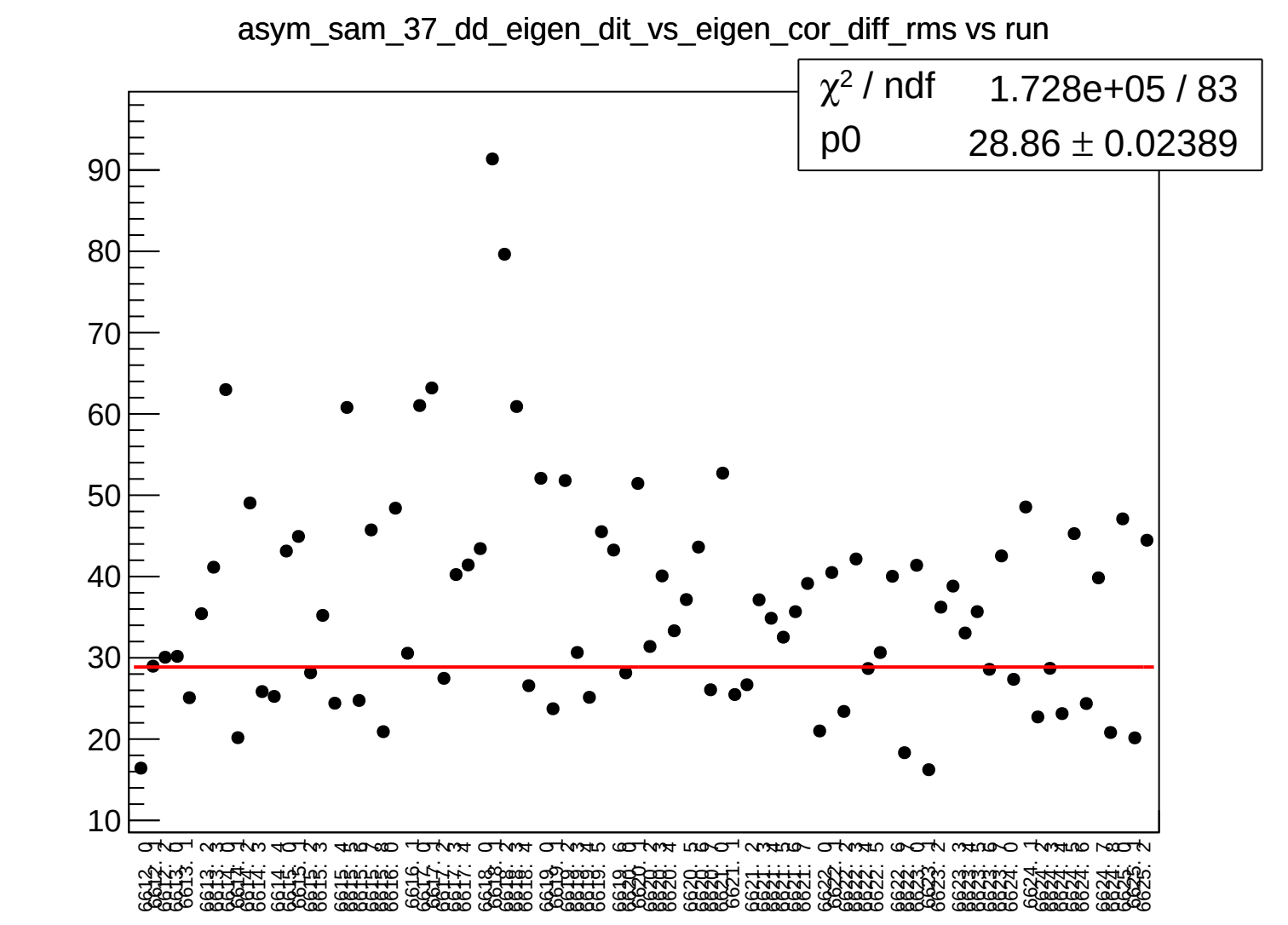

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.26 / 83
p0 0.06469 ± 0.03378
pull
Entries 84
Mean −3589
Std Dev 0

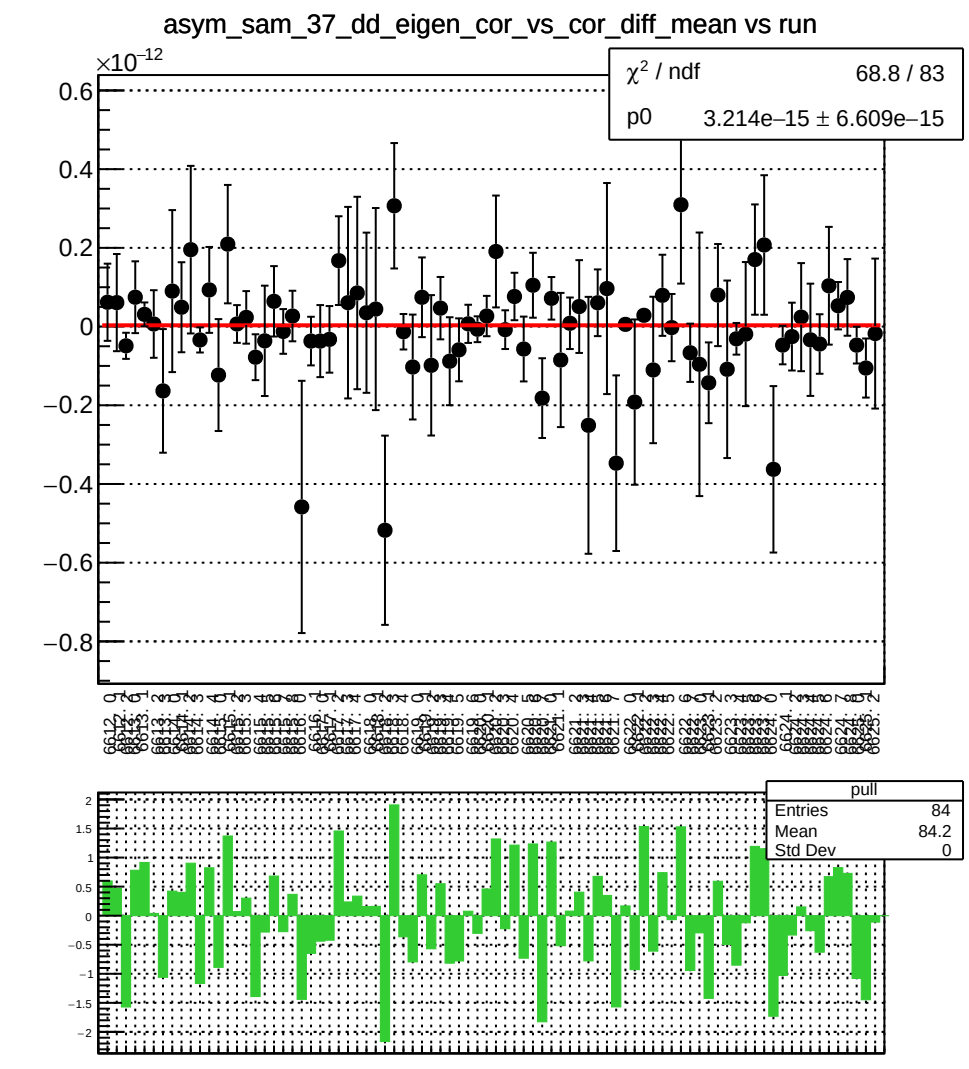

pull1D
Entries 84
Mean 0.0006199
Std Dev 0.9466

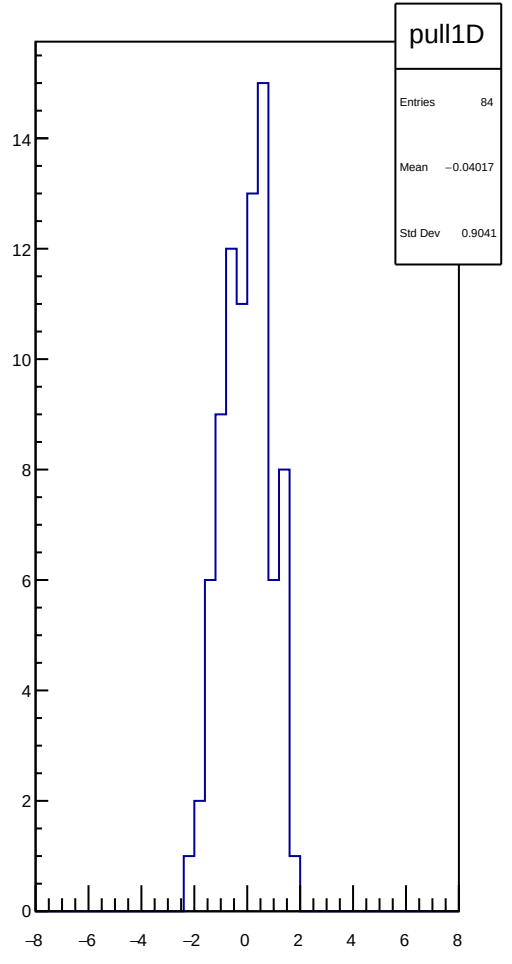

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.728e+05 / 83
p0 28.86 ± 0.02389
90
80
70
60
50
40
30
20
10

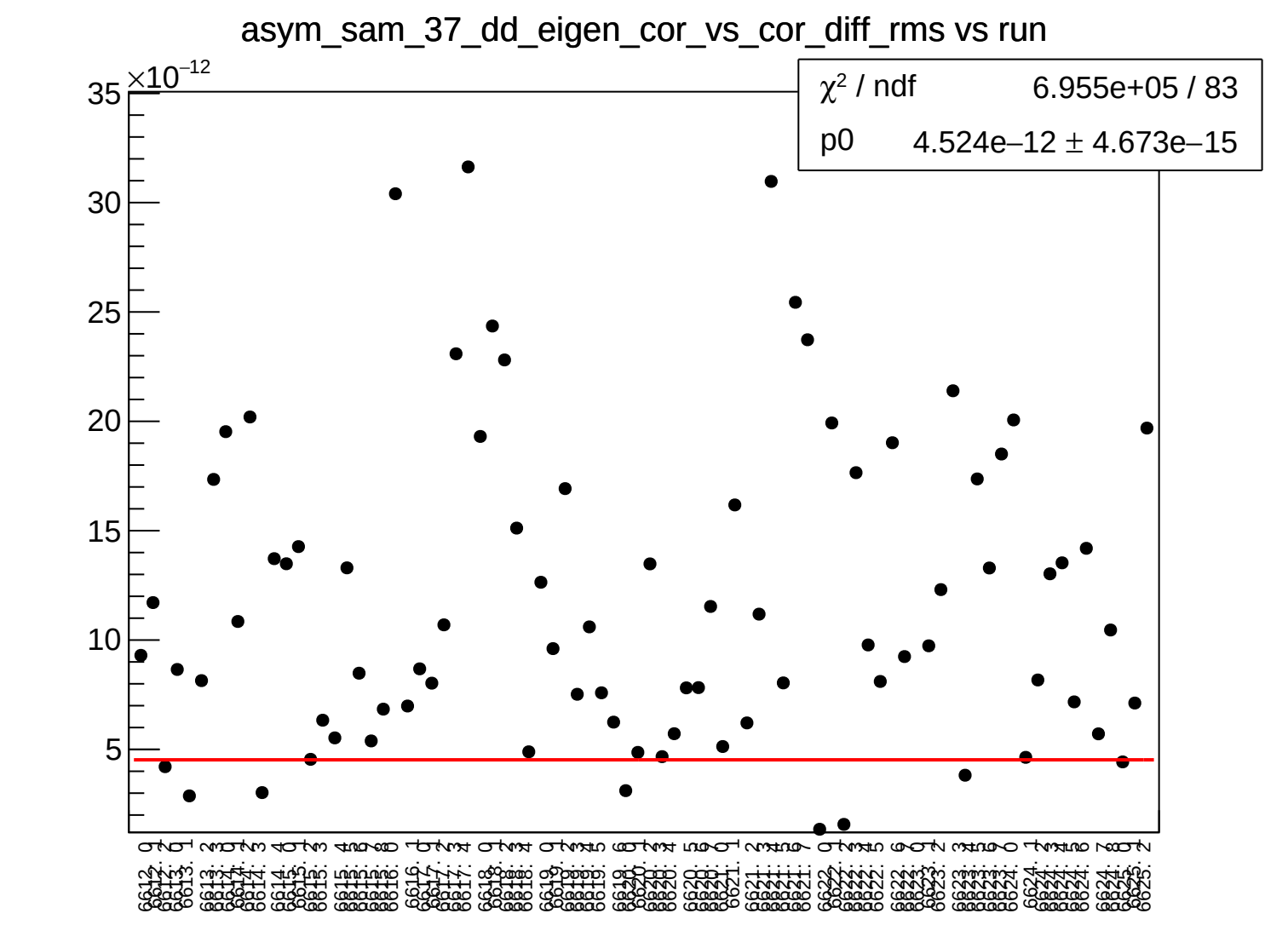

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.26 / 83
p0 0.06469 ± 0.03378
pull
Entries 84
Mean −3589
Std Dev 0

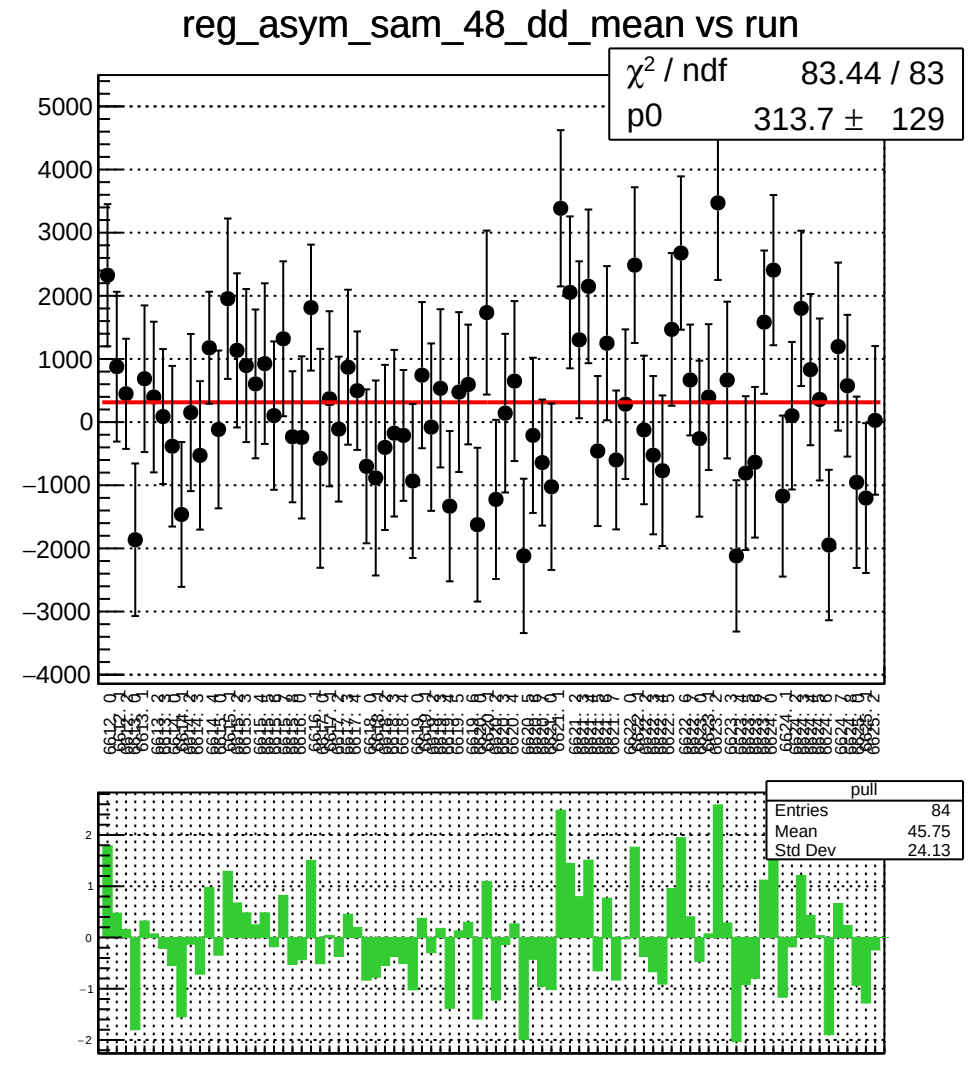

pull1D
Entries 84
Mean 0.0006199
Std Dev 0.9466

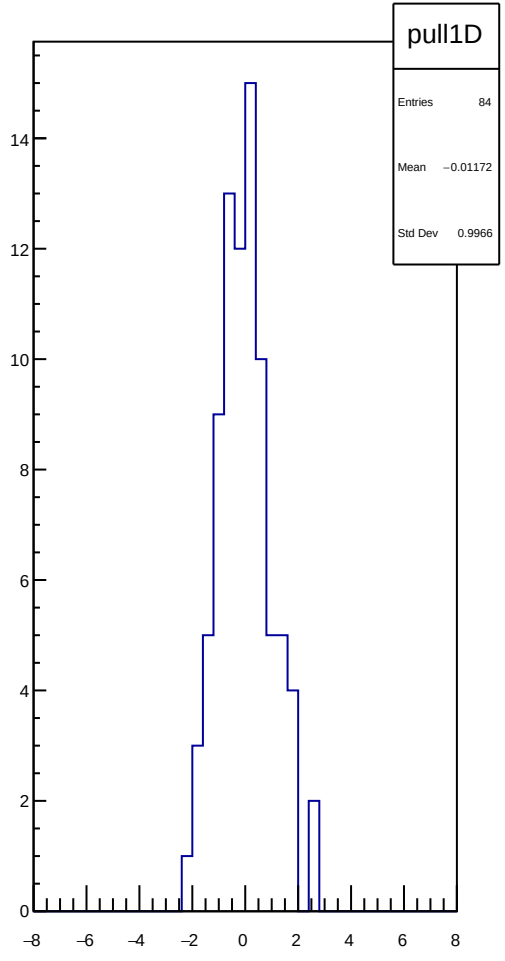

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.728e+05 / 83
p0 28.86 ± 0.02389
90
80
70
60
50
40
30
20
10

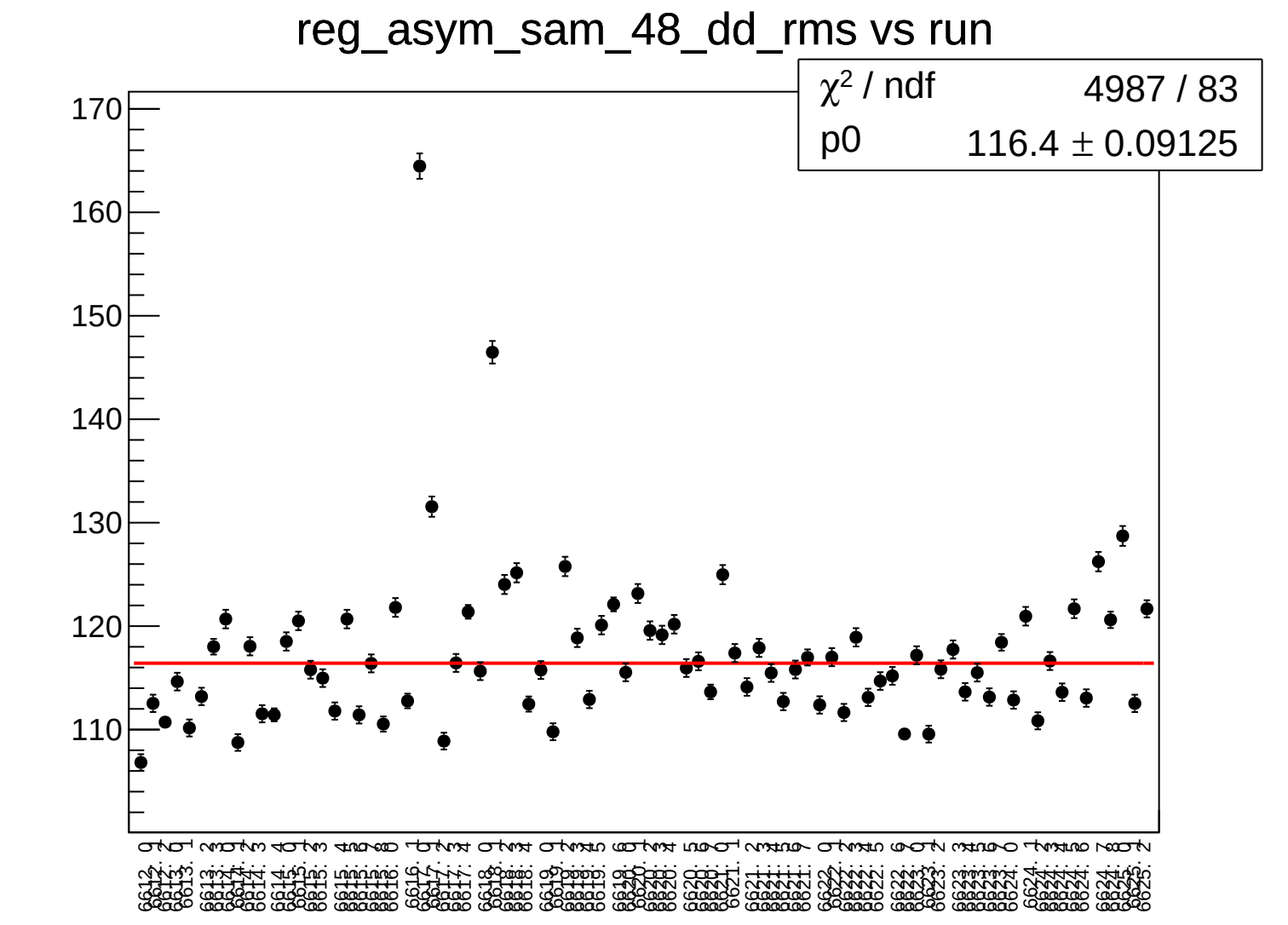

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.8 / 83
p0 3.214e−15 ± 6.609e−15
pull
Entries 84
Mean 84.2
Std Dev 0

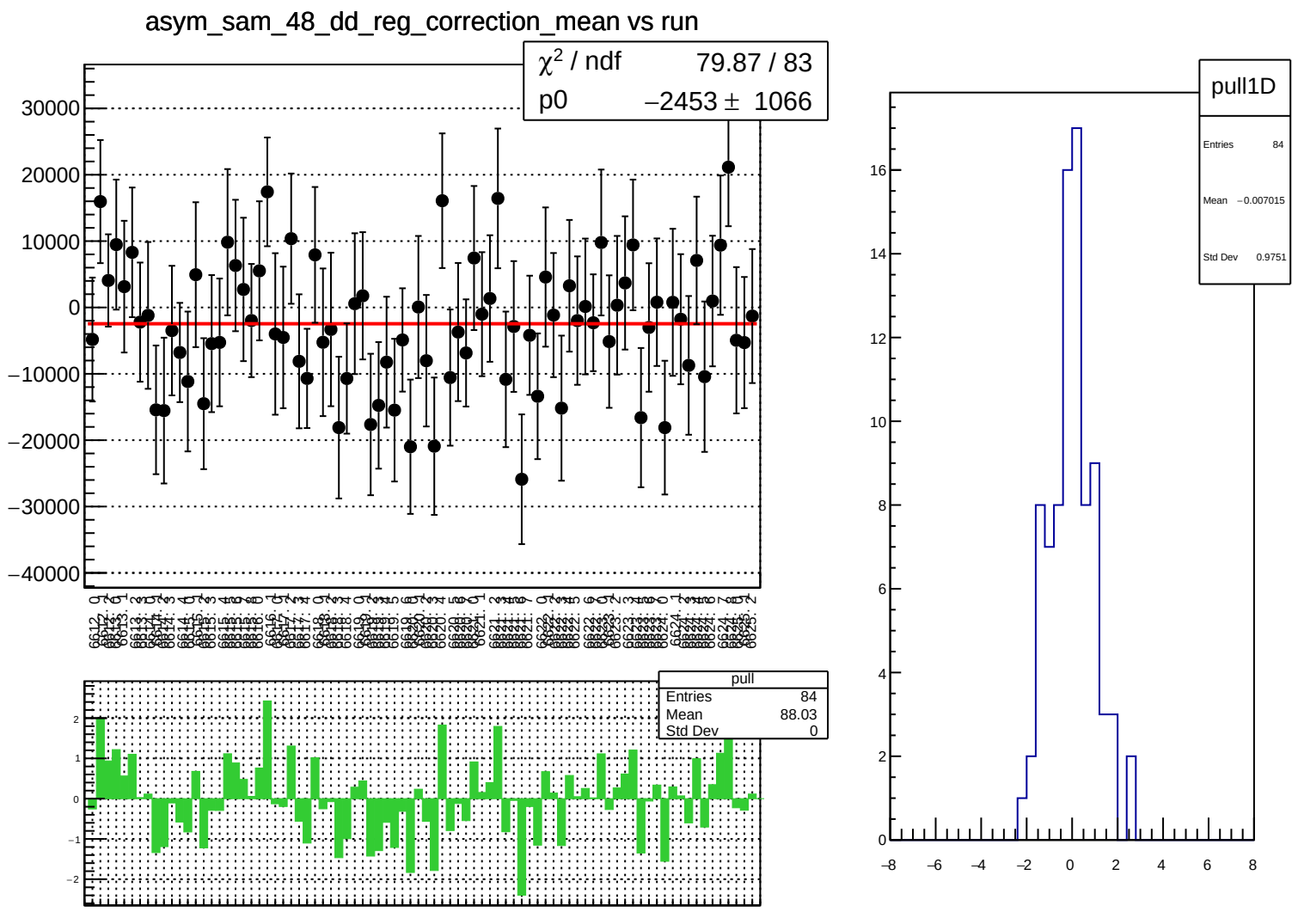

pull1D
Entries 84
Mean −0.04017
Std Dev 0.9041

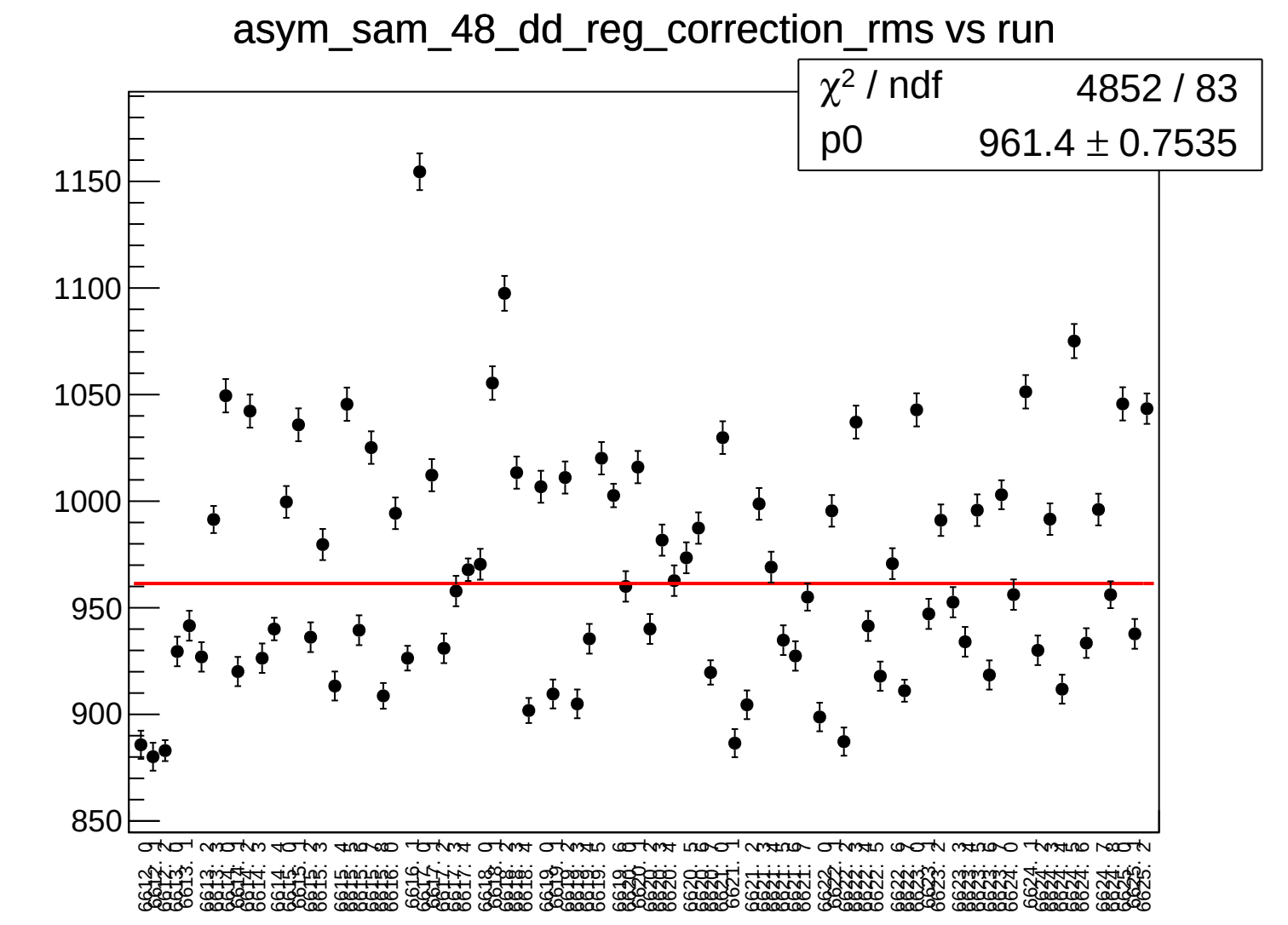

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.955e+05 / 83
p0 4.524e−12 ± 4.673e−15
35
30
25
20
15
10
5

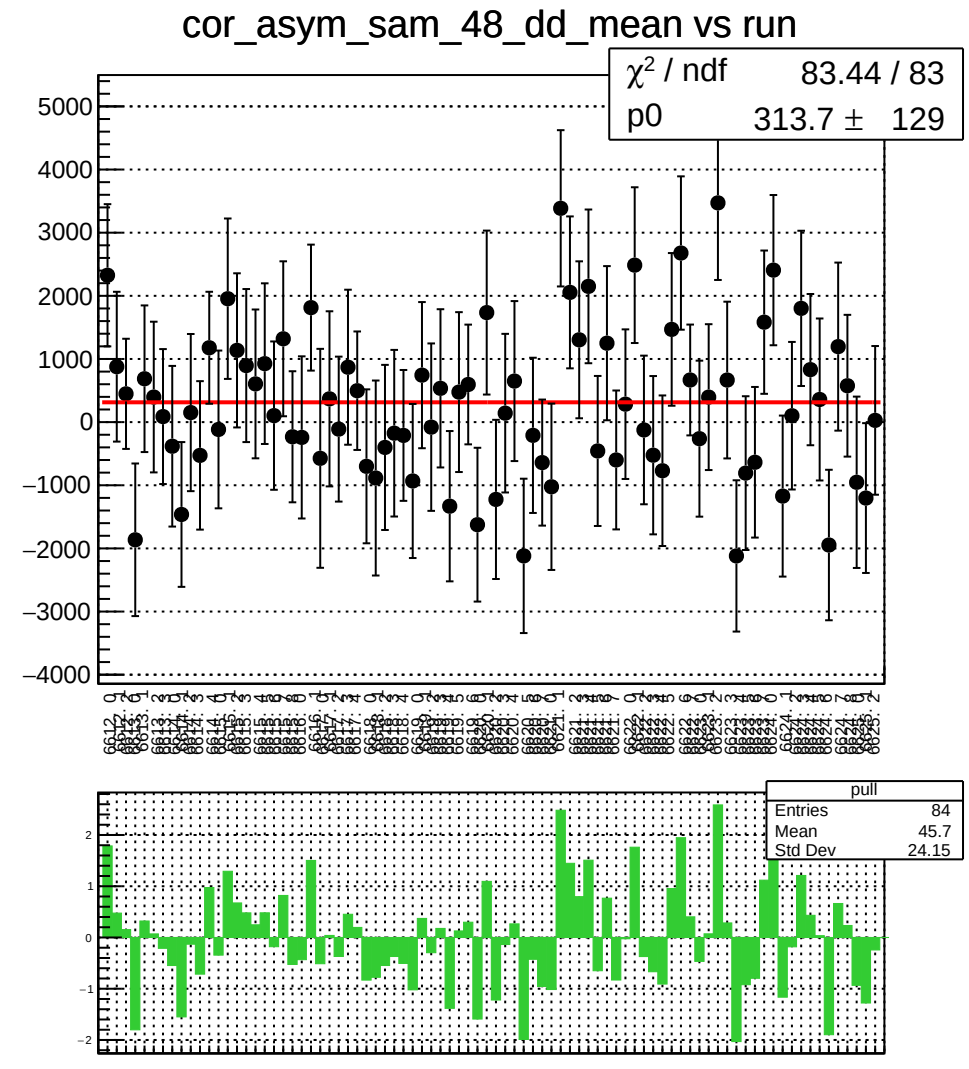

reg_asym_sam_48_dd_mean vs run
χ² / ndf 83.44 / 83
p0 313.7 ± 129
pull
Entries 84
Mean 45.75
Std Dev 24.13

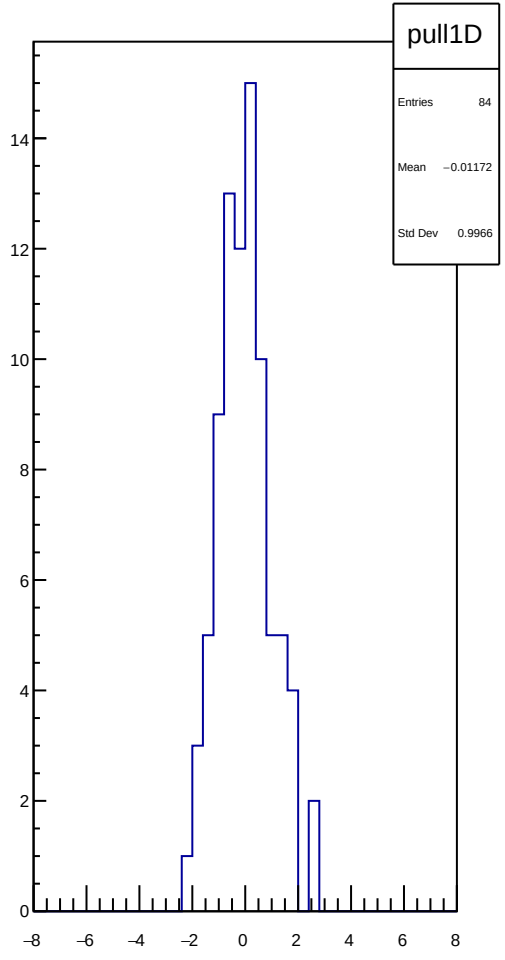

pull1D
Entries 84
Mean −0.01172
Std Dev 0.9966

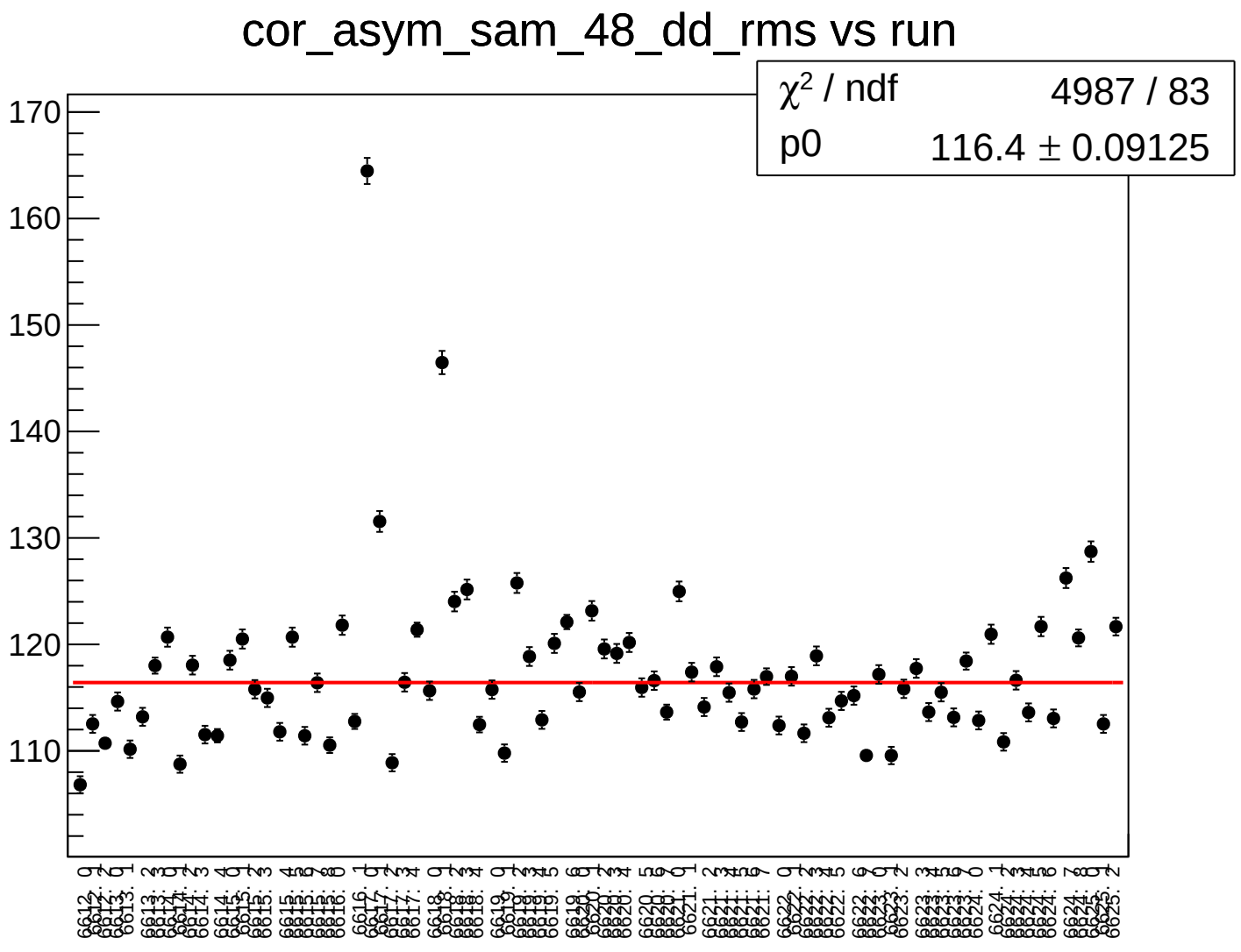

reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 4987 / 83
p0 116.4 ± 0.09125
170
160
150
140
130
120
110

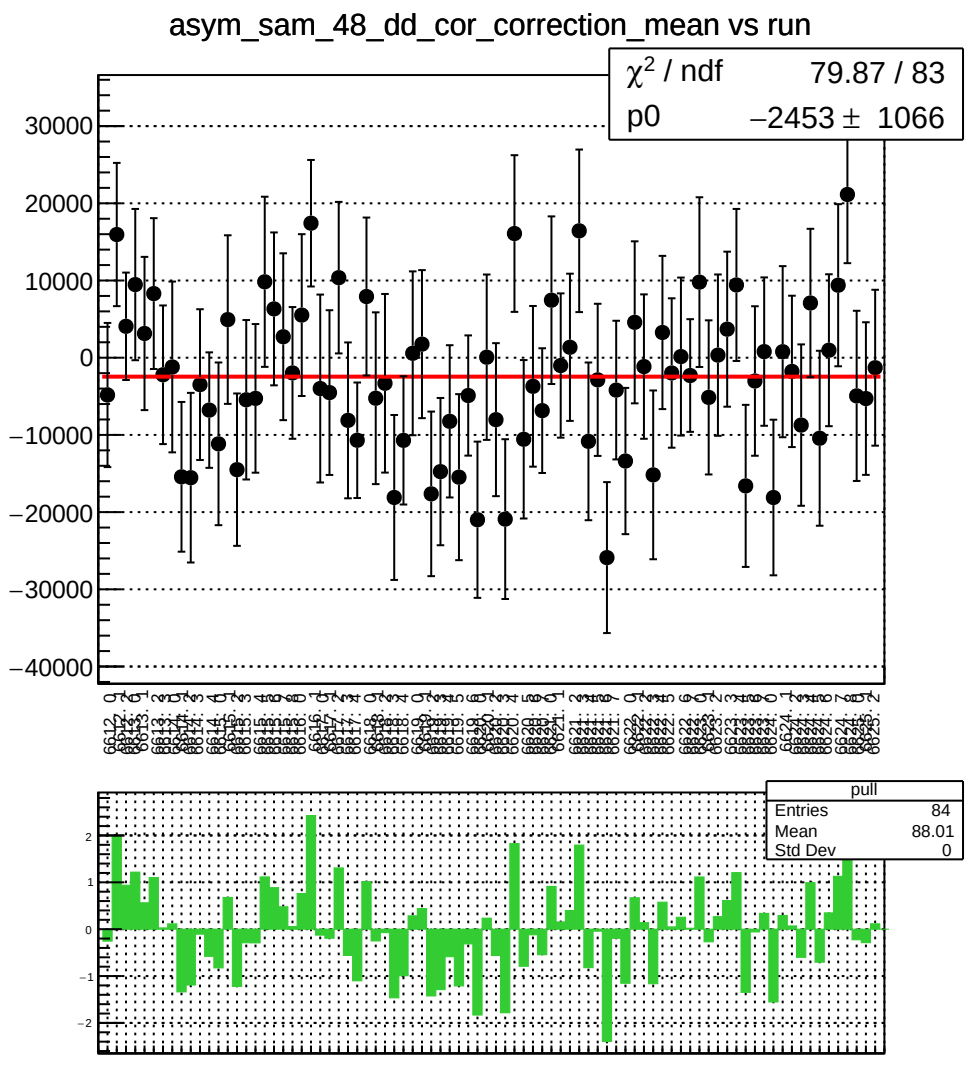

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 79.87 / 83
p0 −2453 ± 1066
pull
Entries 84
Mean 88.03
Std Dev 0
pull1D
Entries 84
Mean −0.007015
Std Dev 0.9751

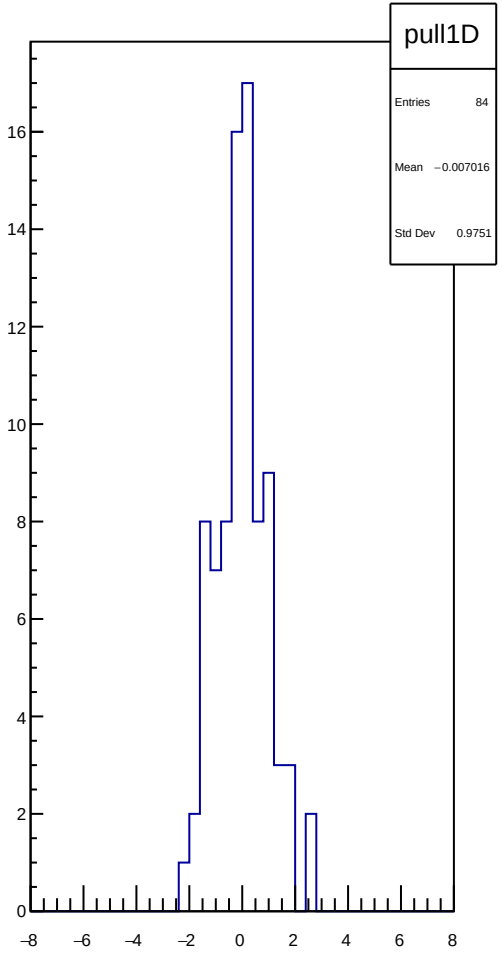

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 4852 / 83
p0 961.4 ± 0.7535
1150
1100
1050
1000
950
900
850

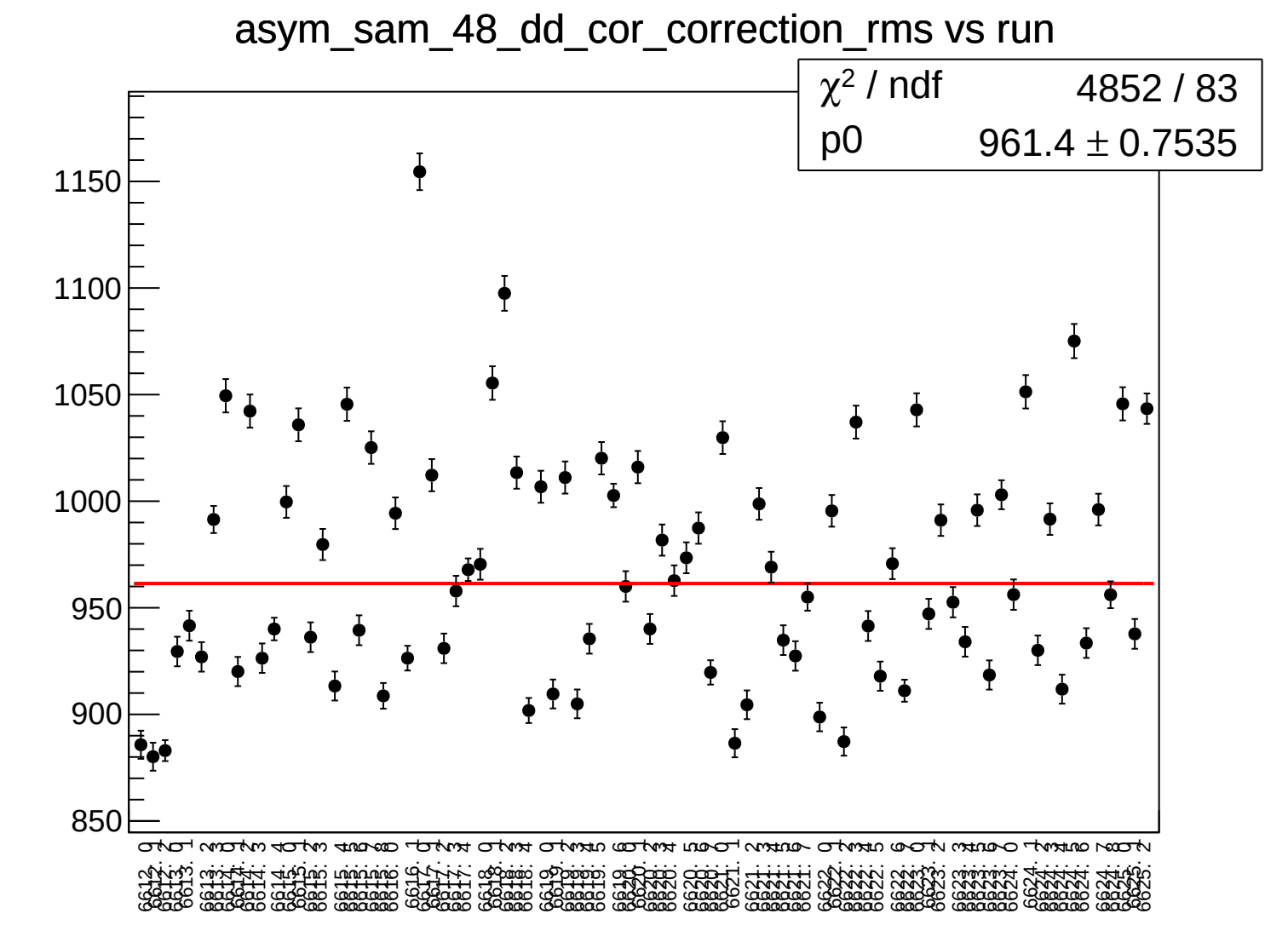

cor_asym_sam_48_dd_mean vs run
χ² / ndf 83.44 / 83
p0 313.7 ± 129
pull
Entries 84
Mean 45.7
Std Dev 24.15

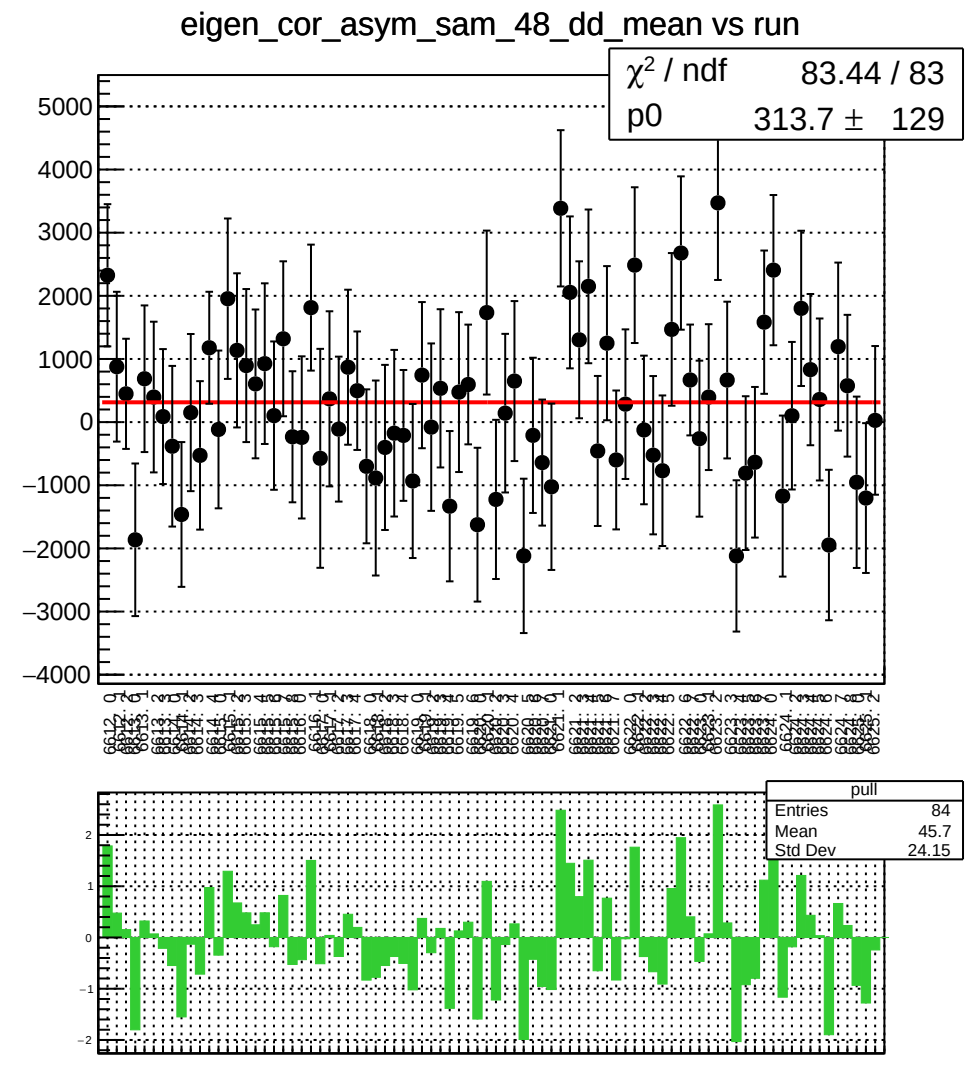

pull1D
Entries 84
Mean −0.01172
Std Dev 0.9966

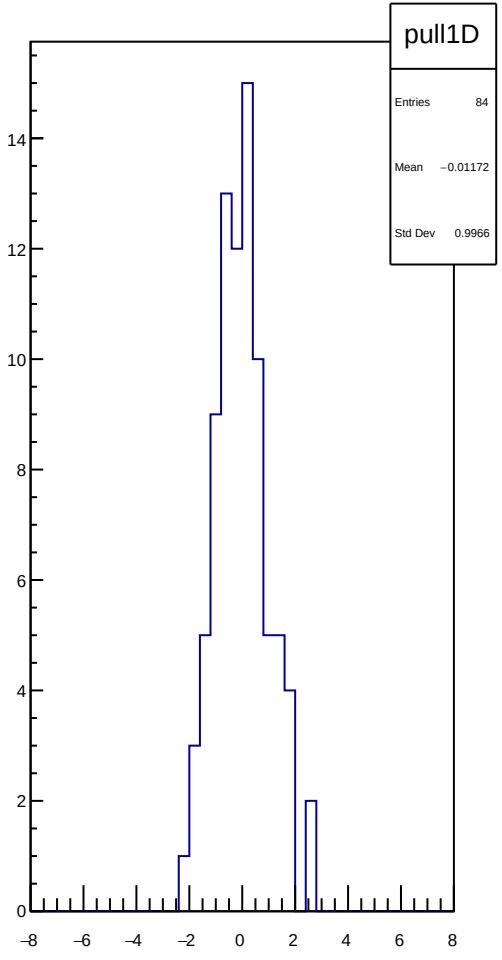

cor_asym_sam_48_dd_rms vs run
χ² / ndf 4987 / 83
p0 116.4 ± 0.09125
170
160
150
140
130
120
110

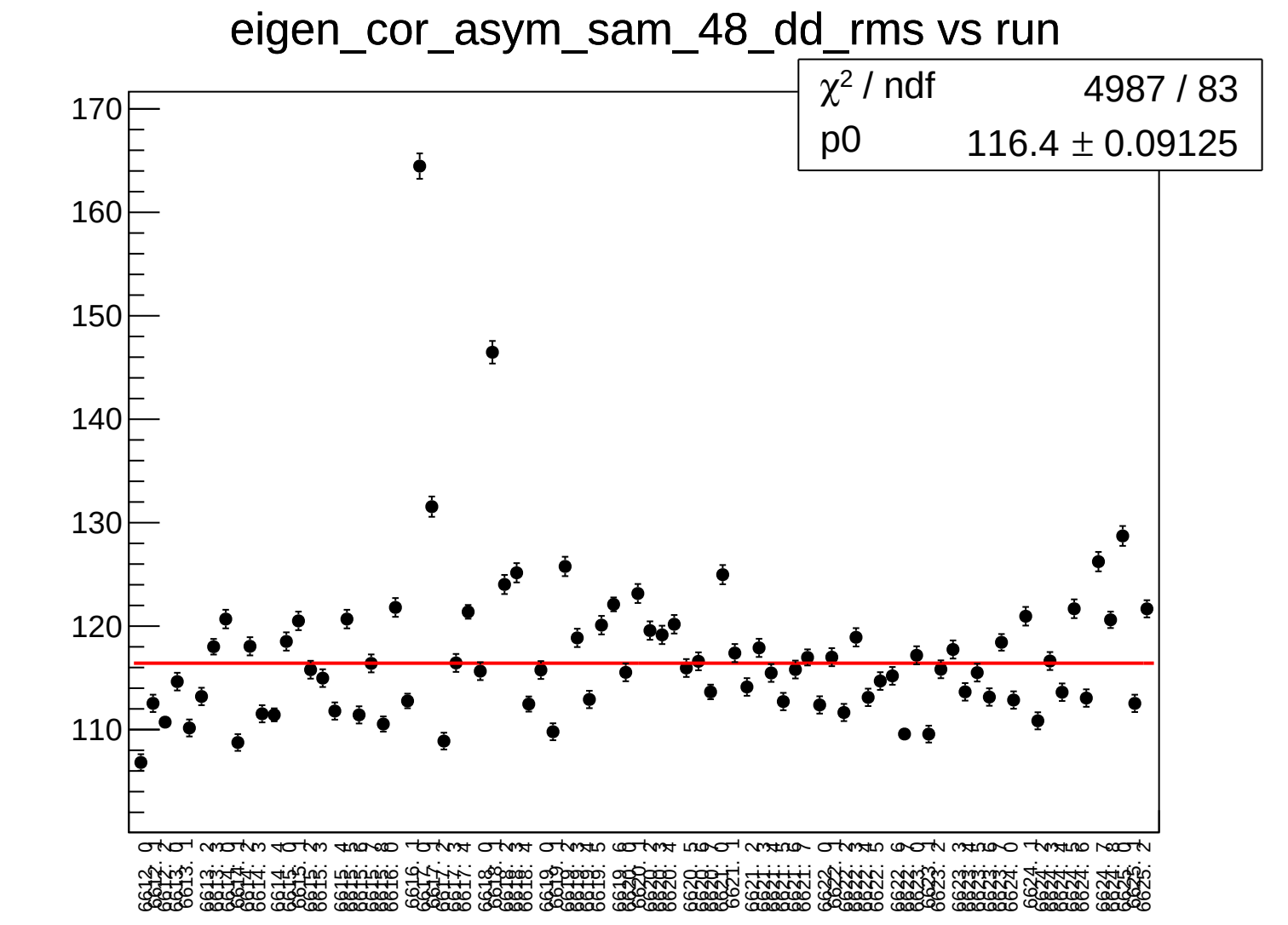

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 79.87 / 83
p0 −2453 ± 1066
pull
Entries 84
Mean 88.01
Std Dev 0

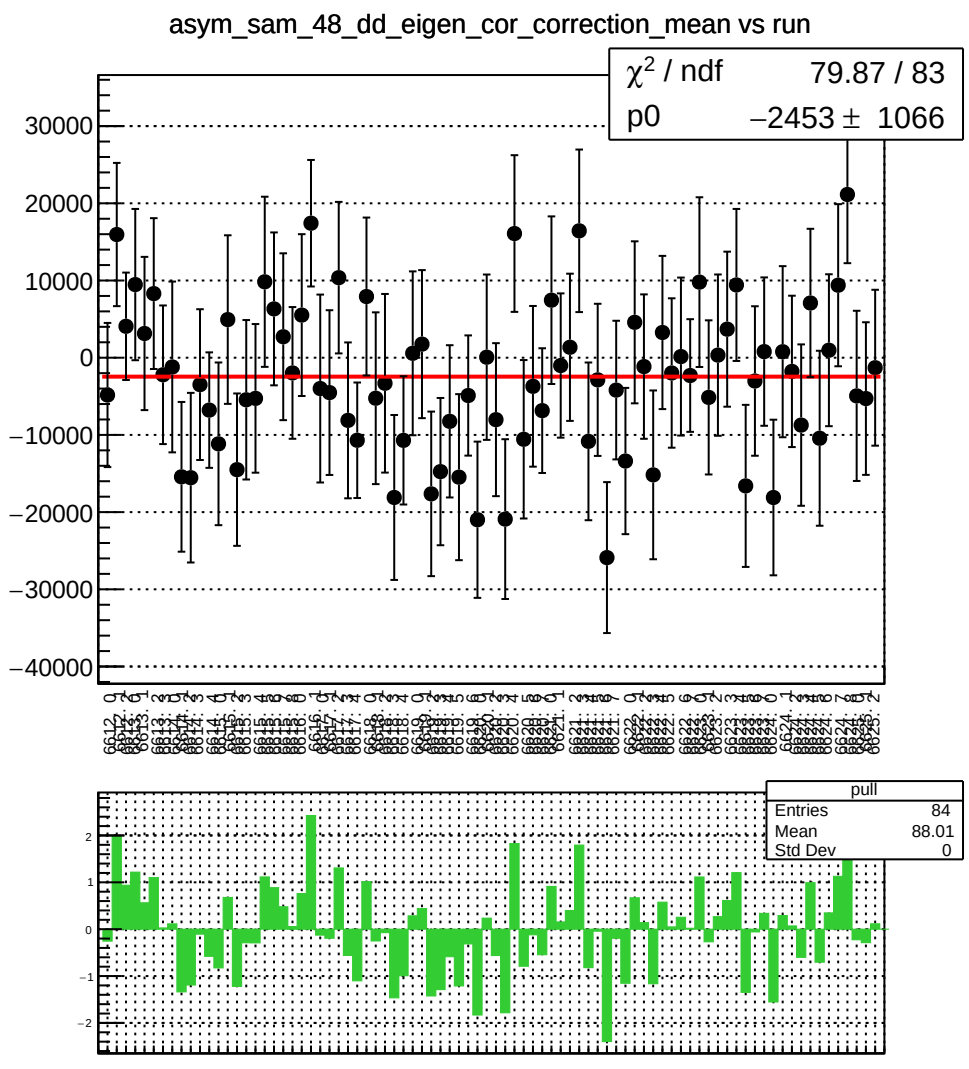

pull1D
Entries 84
Mean −0.007016
Std Dev 0.9751

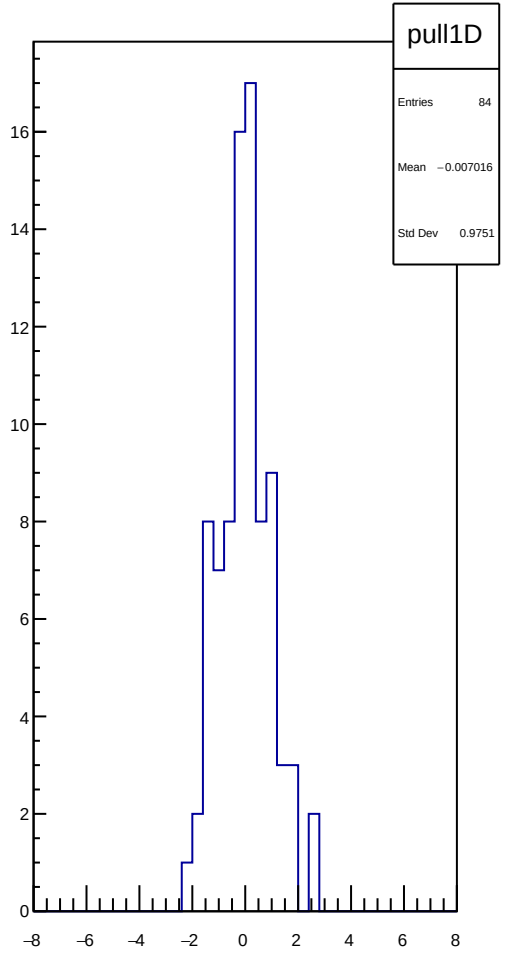

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 4852 / 83
p0 961.4 ± 0.7535
1150
1100
1050
1000
950
900
850

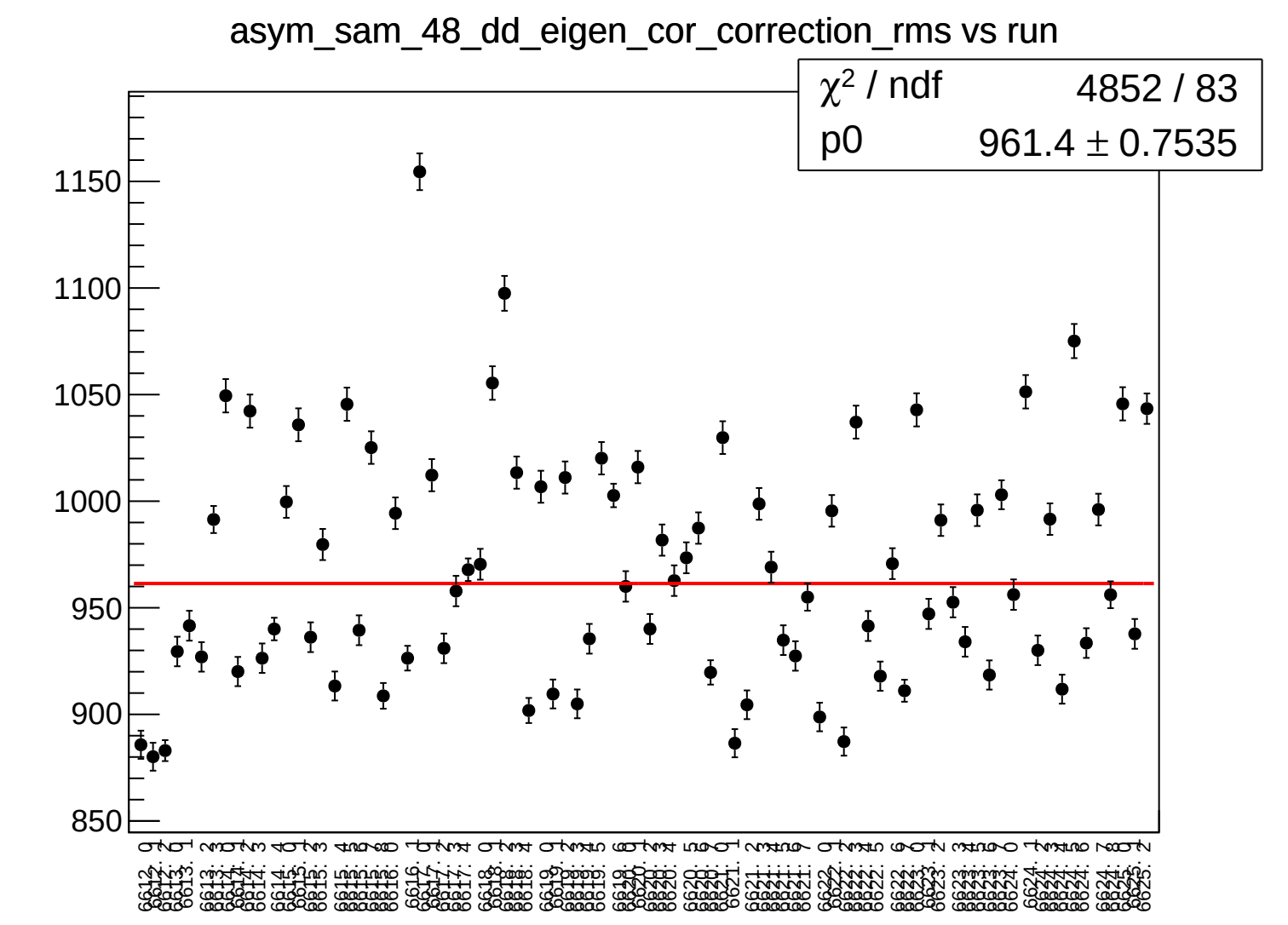

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 83.44 / 83
p0 313.7 ± 129
pull
Entries 84
Mean 45.7
Std Dev 24.15

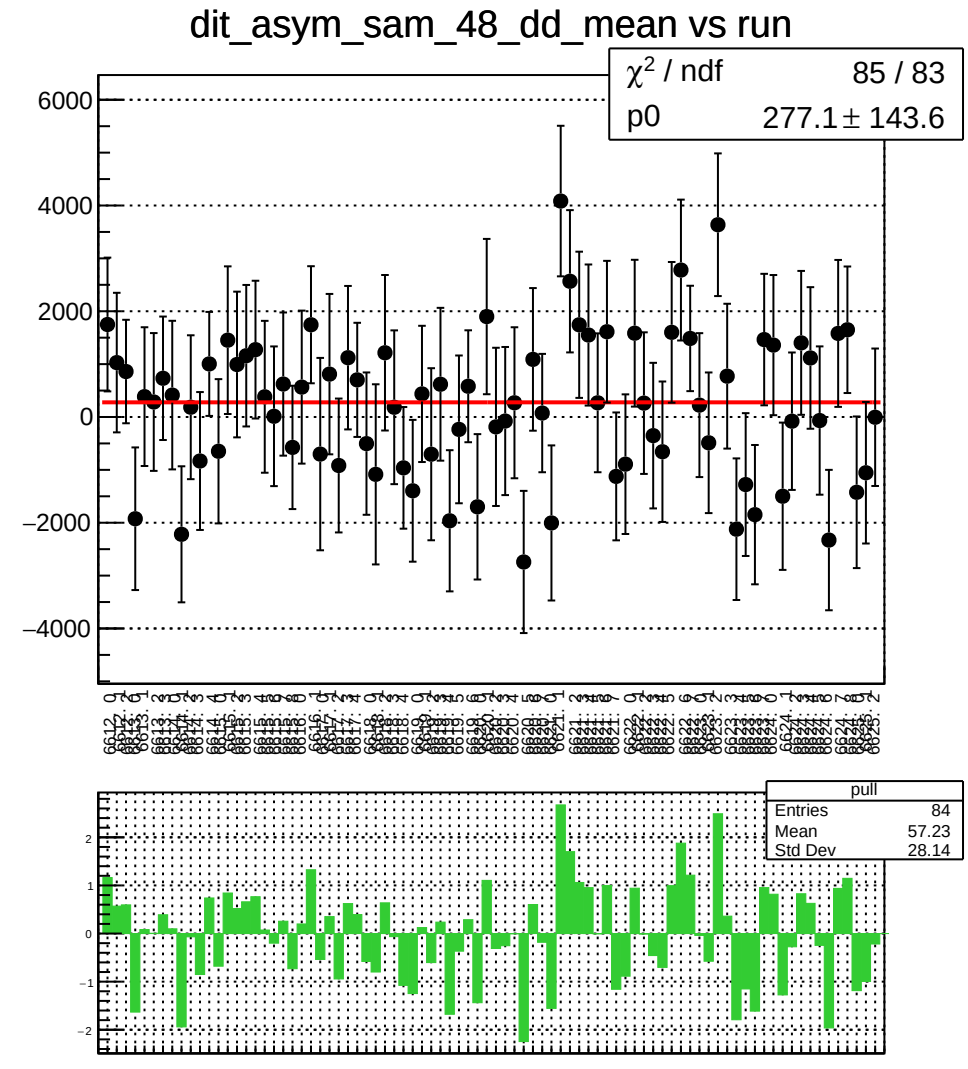

pull1D
Entries 84
Mean −0.01172
Std Dev 0.9966

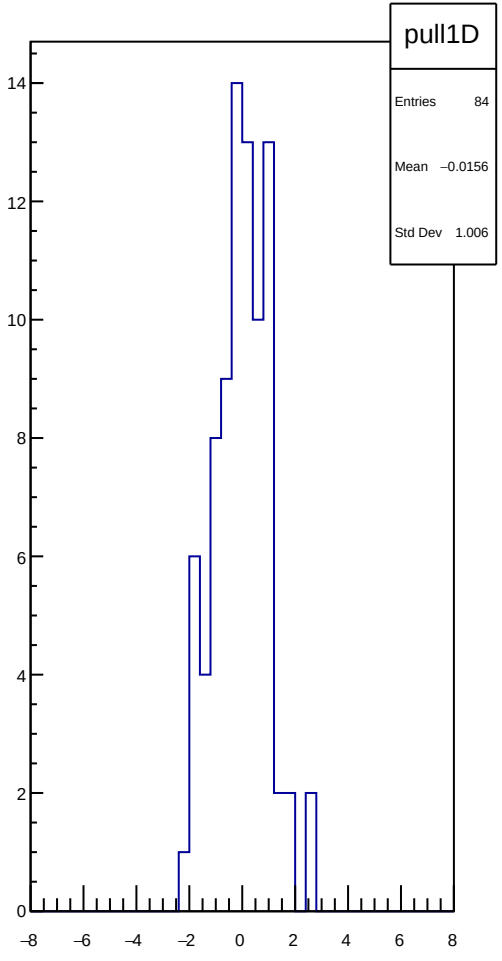

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 4987 / 83
p0 116.4 ± 0.09125
170
160
150
140
130
120
110

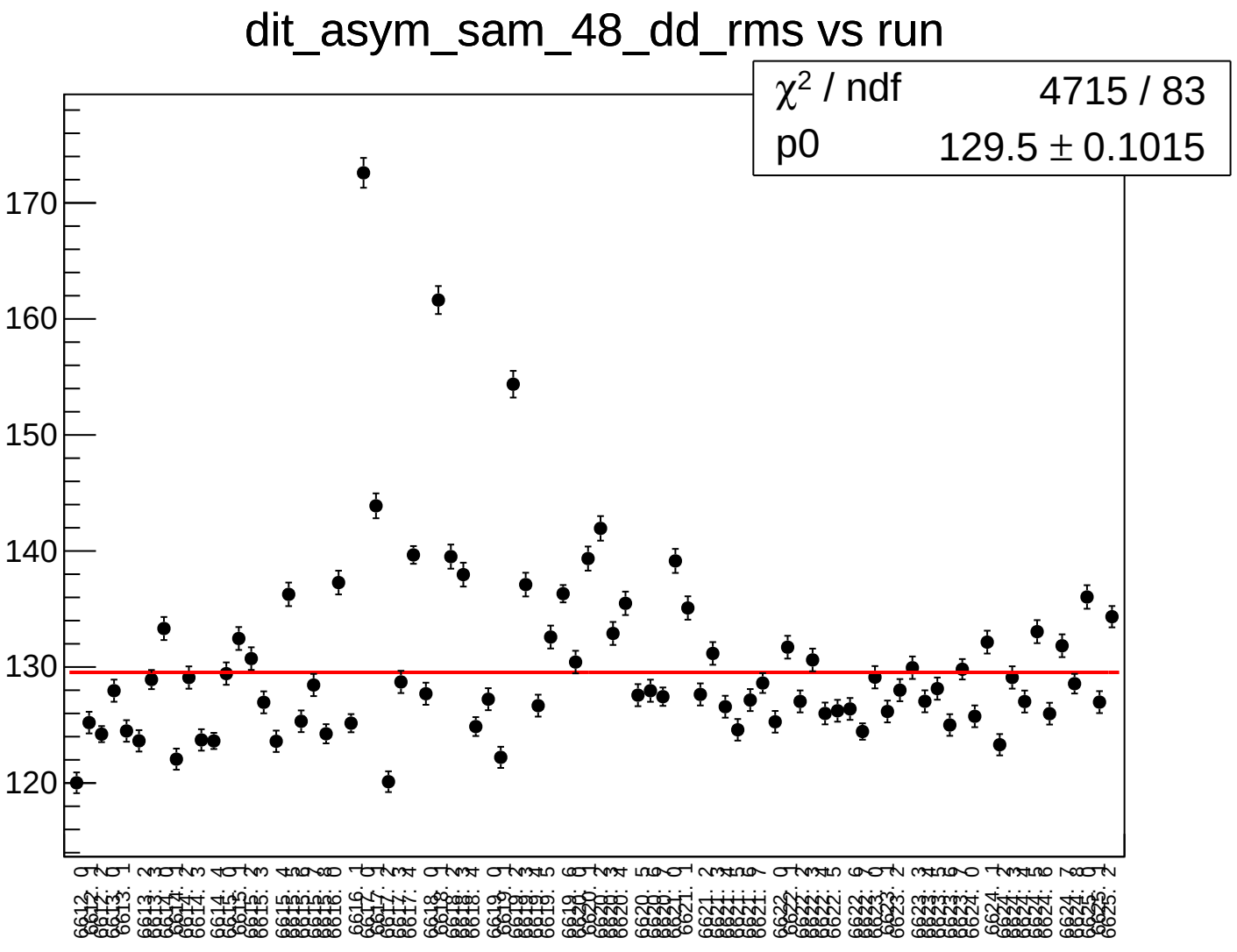

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.87 / 83
p0 −2453 ± 1066
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 88.01
Std Dev 0
2
1
0
−1
−2

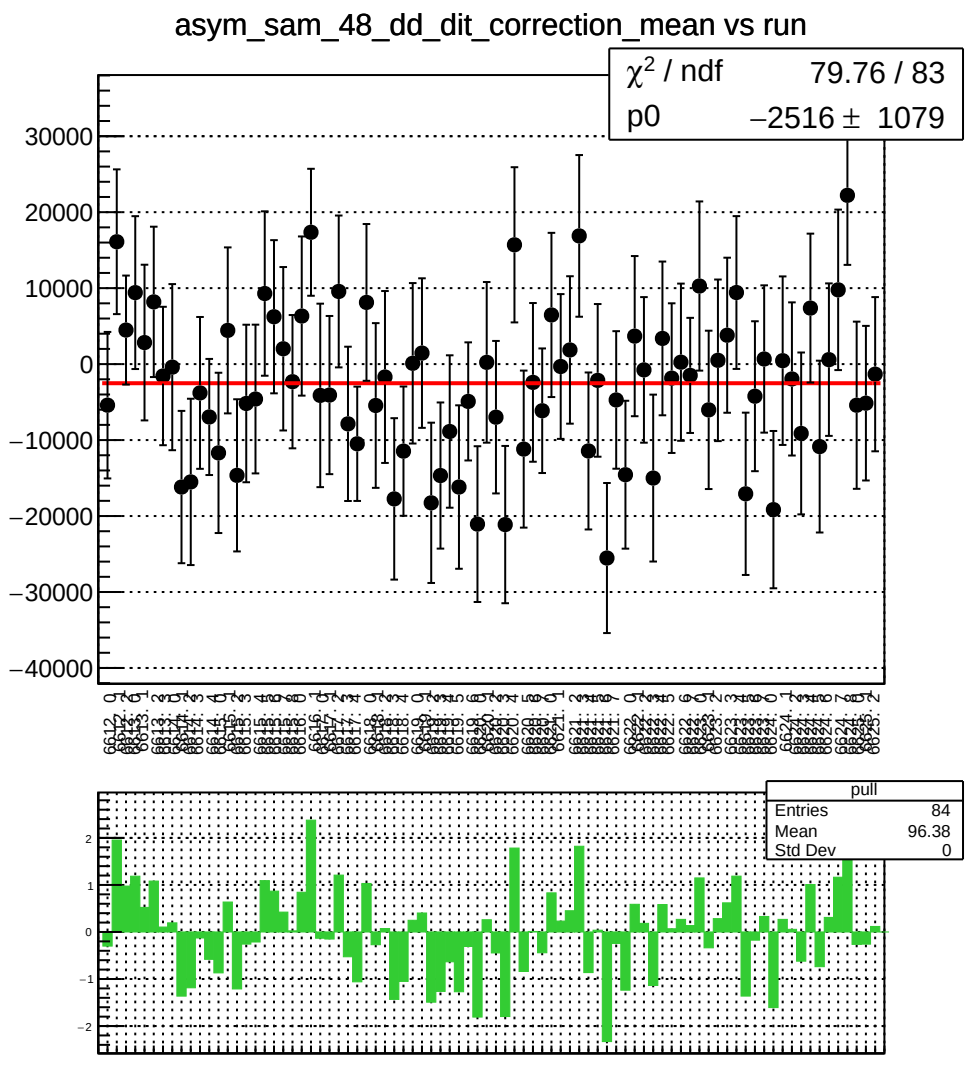

pull1D
Entries 84
Mean −0.007016
Std Dev 0.9751
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

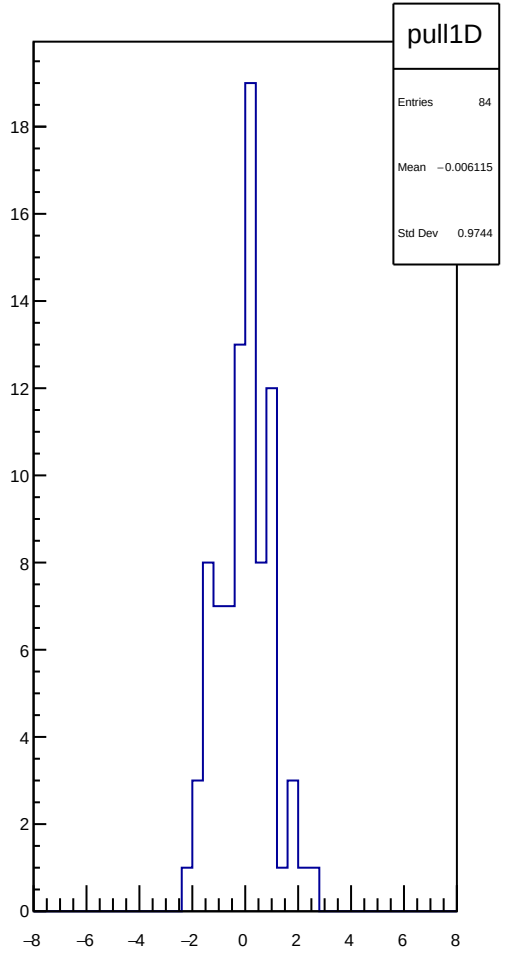

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 4852 / 83
p0 961.4 ± 0.7535
1150
1100
1050
1000
950
900
850

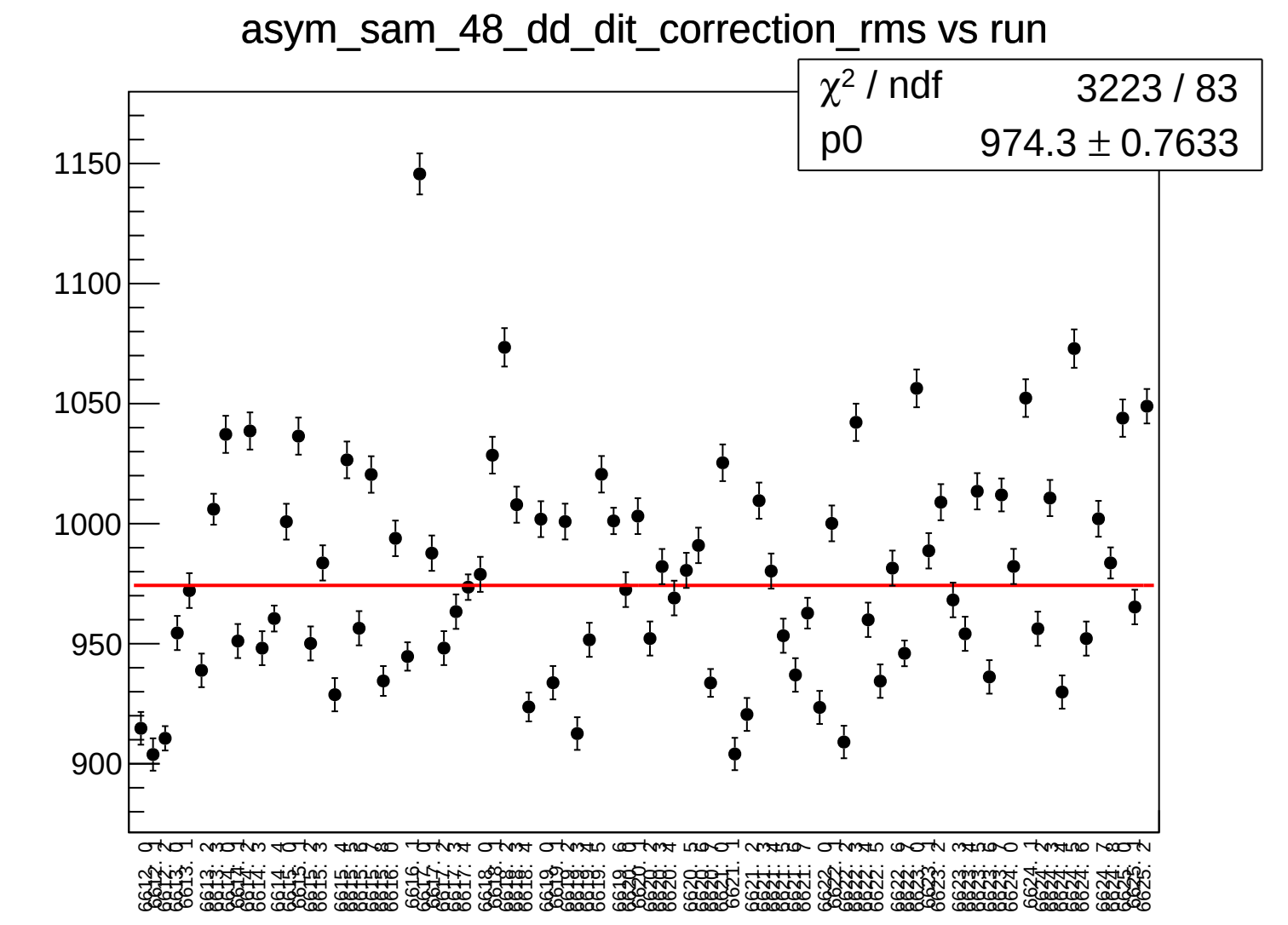

dit_asym_sam_48_dd_mean vs run
χ² / ndf 85 / 83
p0 277.1 ± 143.6
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 57.23
Std Dev 28.14
2
1
0
−1
−2

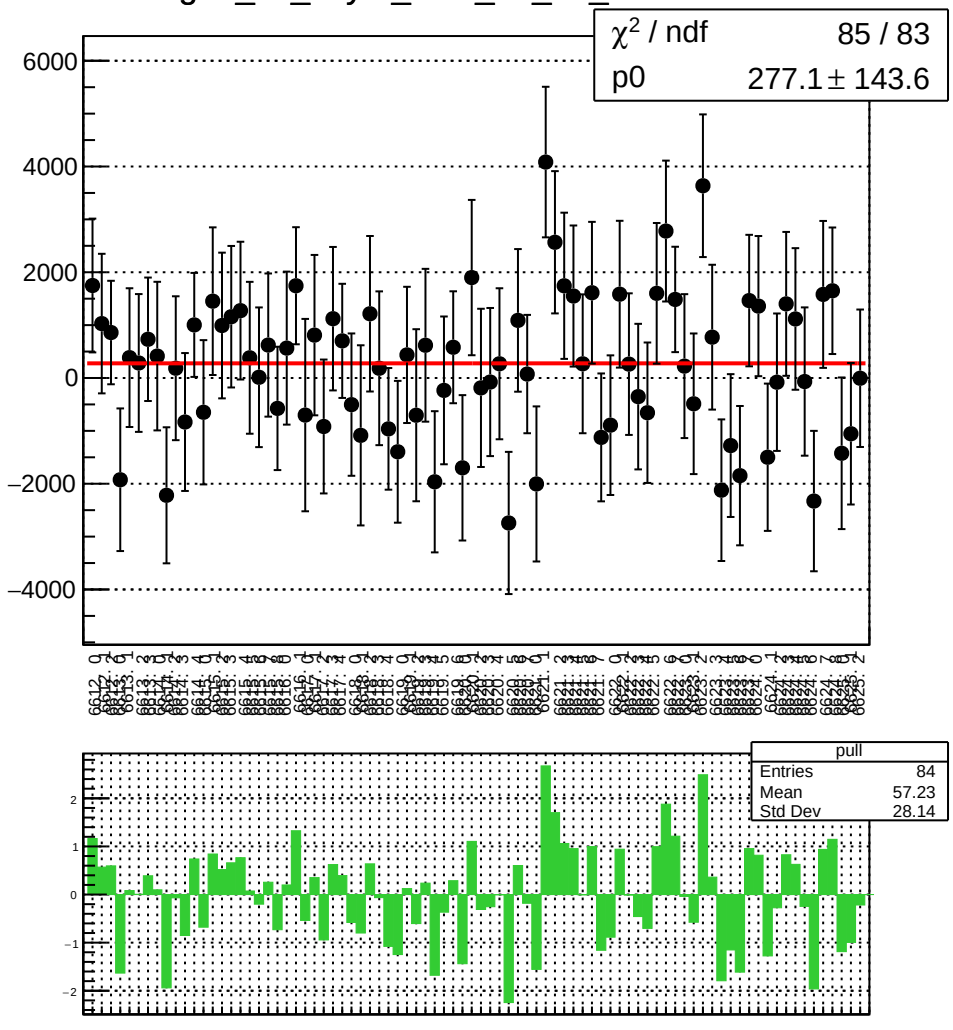

pull1D
Entries 84
Mean −0.0156
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

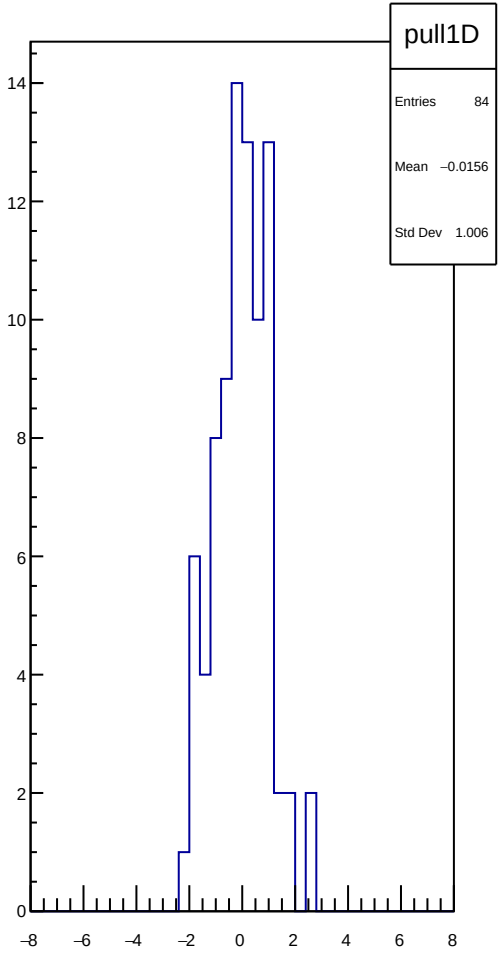

dit_asym_sam_48_dd_rms vs run
χ² / ndf 4715 / 83
p0 129.5 ± 0.1015
170
160
150
140
130
120

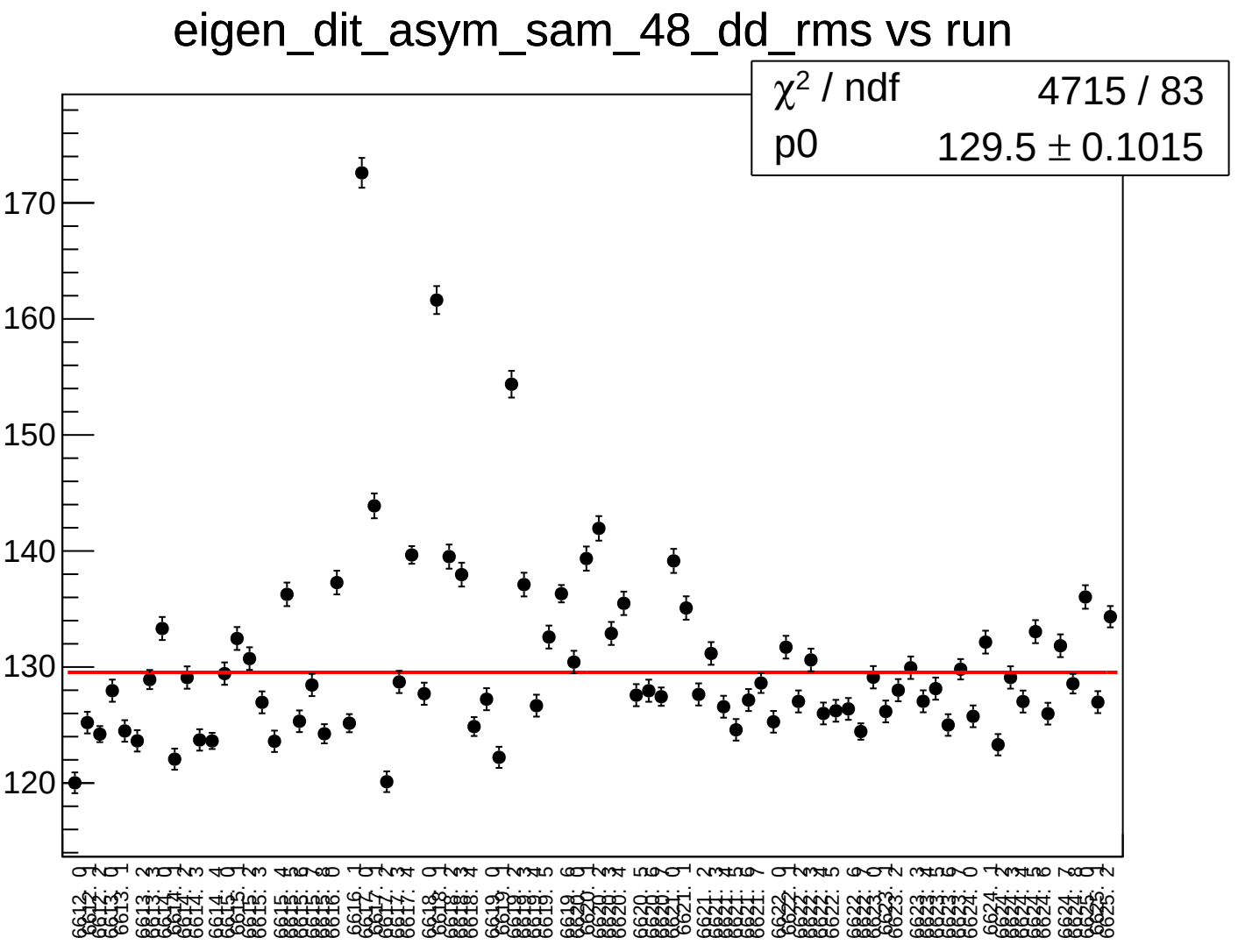

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 79.76 / 83
p0 −2516 ± 1079
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 96.38
Std Dev 0
2
1
0
−1
−2

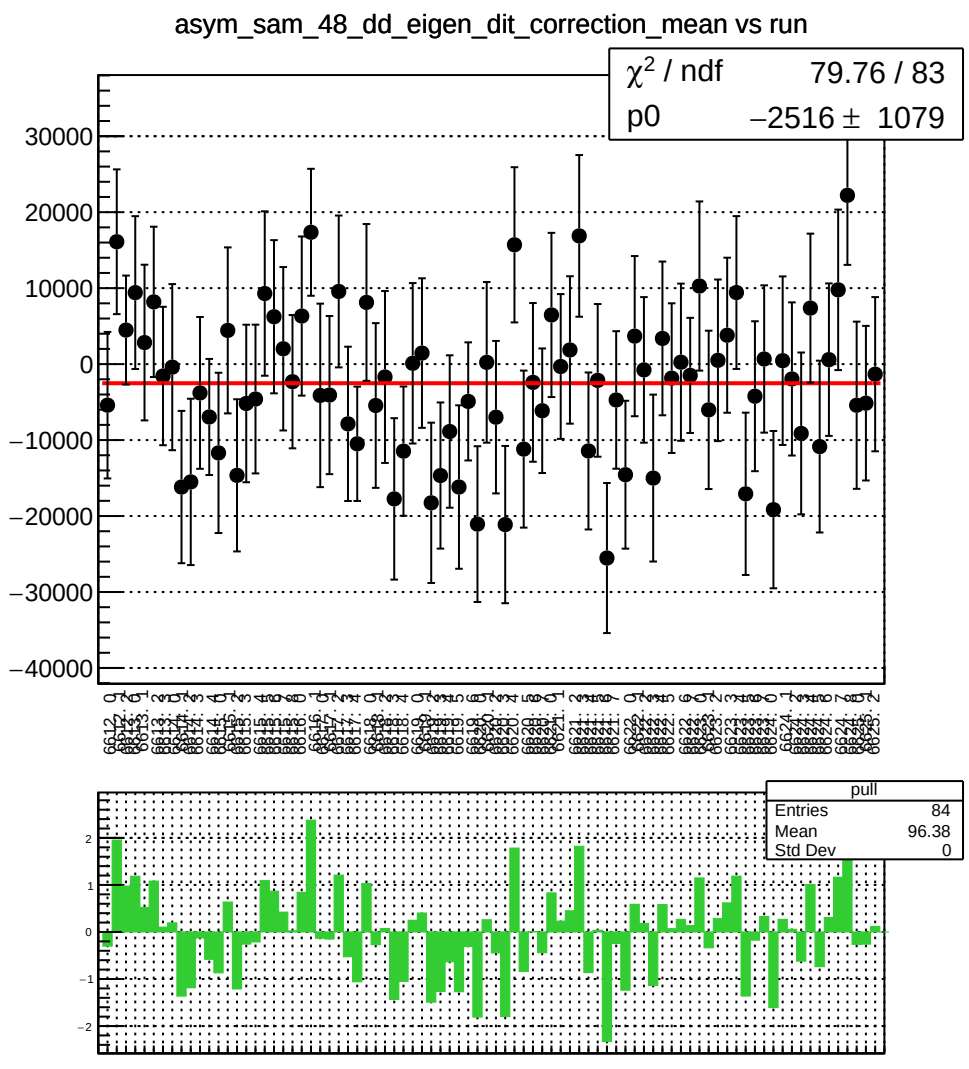

pull1D
Entries 84
Mean −0.006115
Std Dev 0.9744
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

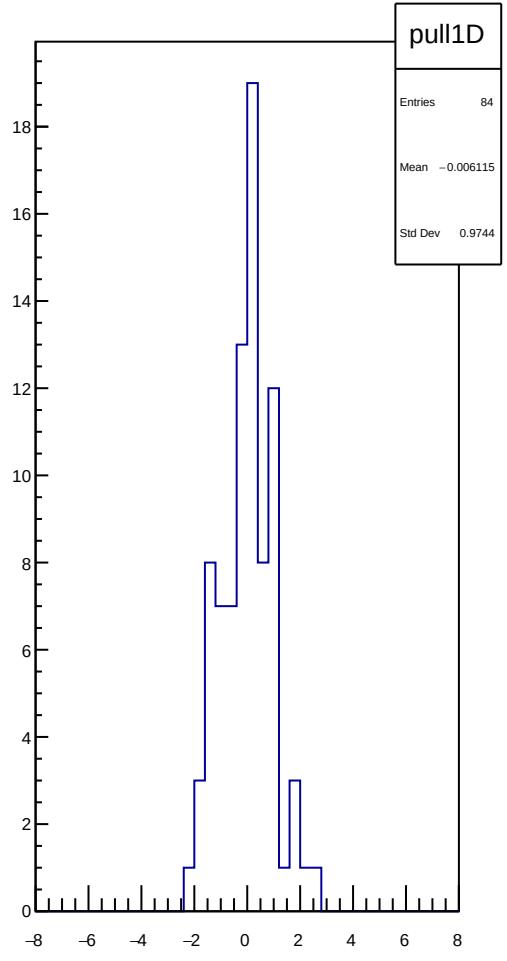

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 3223 / 83
p0 974.3 ± 0.7633
1150
1100
1050
1000
950
900

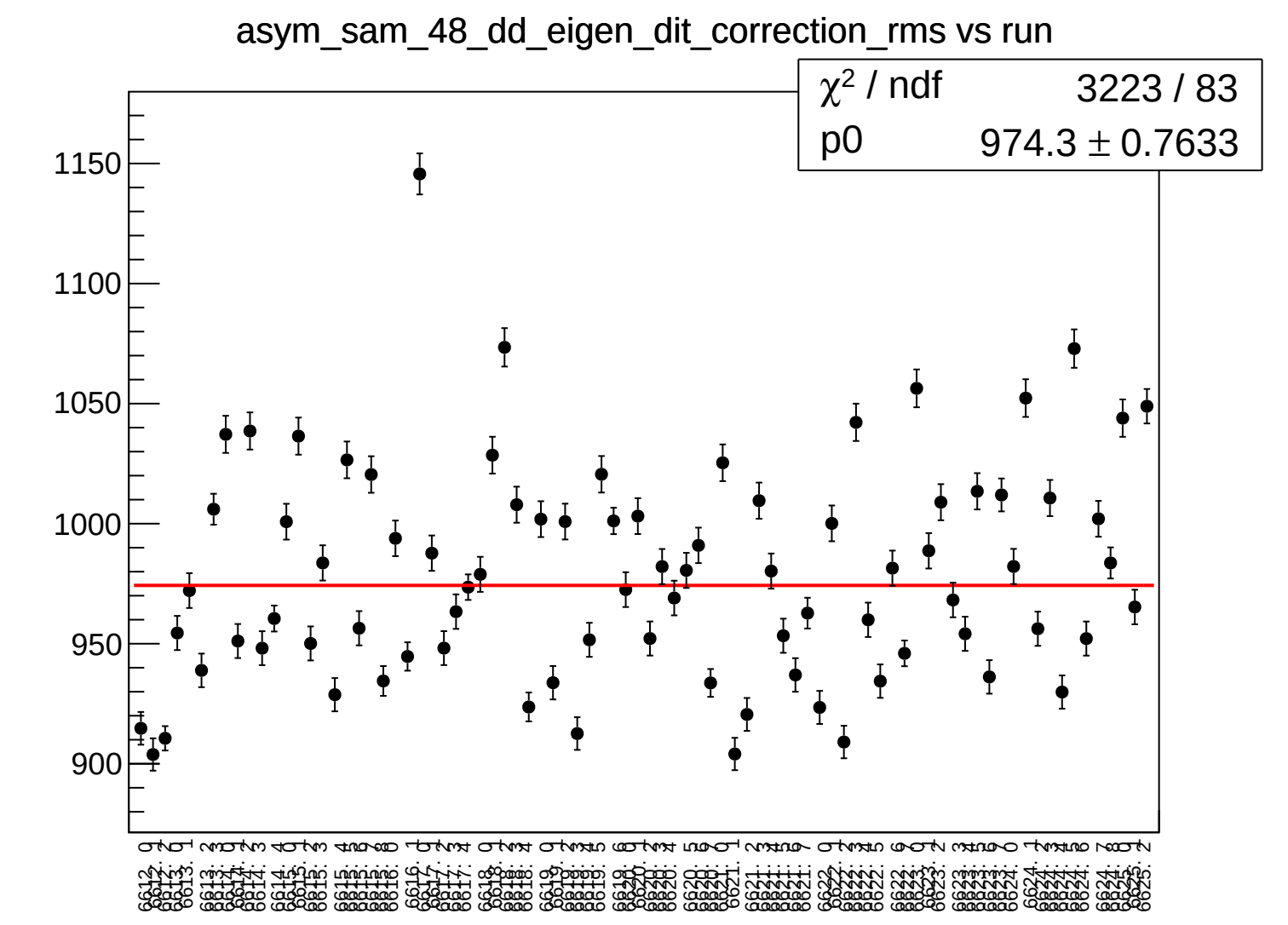

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 85 / 83
p0 277.1 ± 143.6
pull
Entries 84
Mean 57.23
Std Dev 28.14

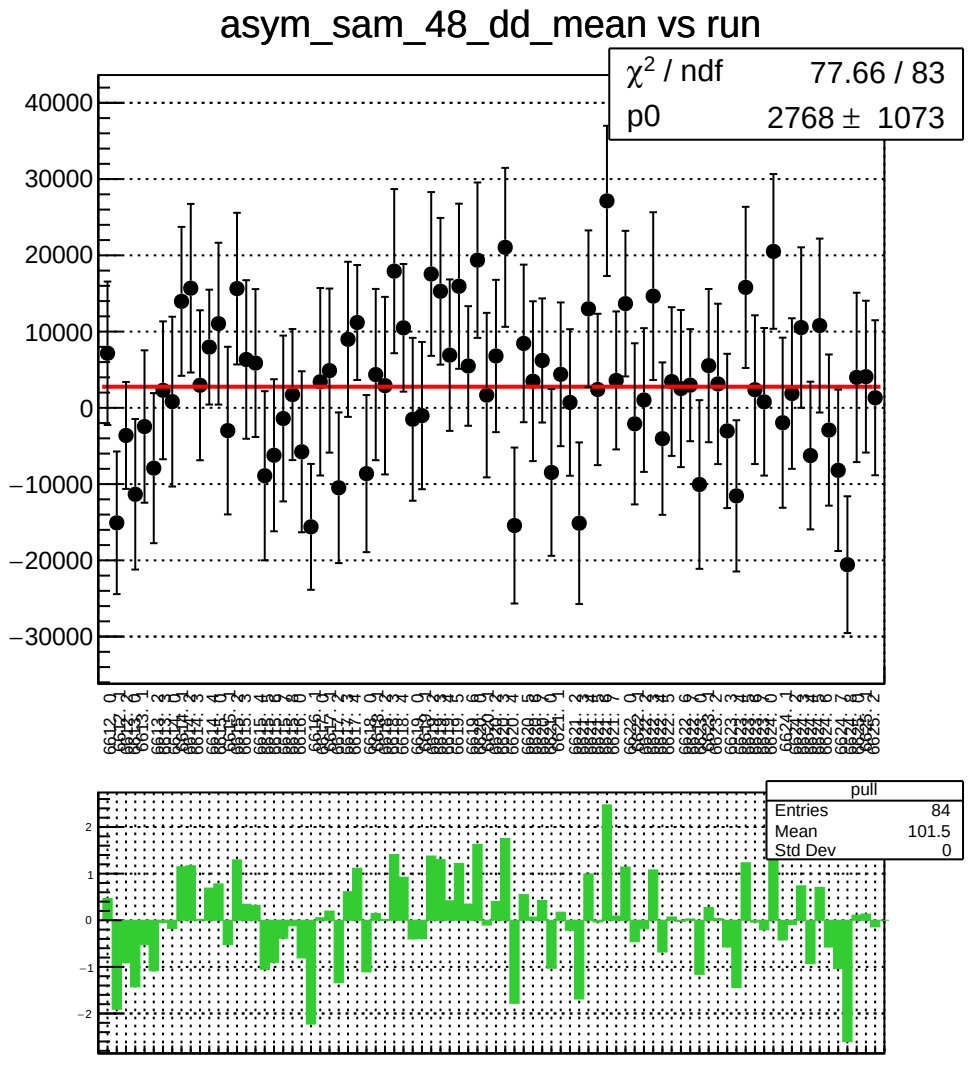

pull1D
Entries 84
Mean −0.0156
Std Dev 1.006

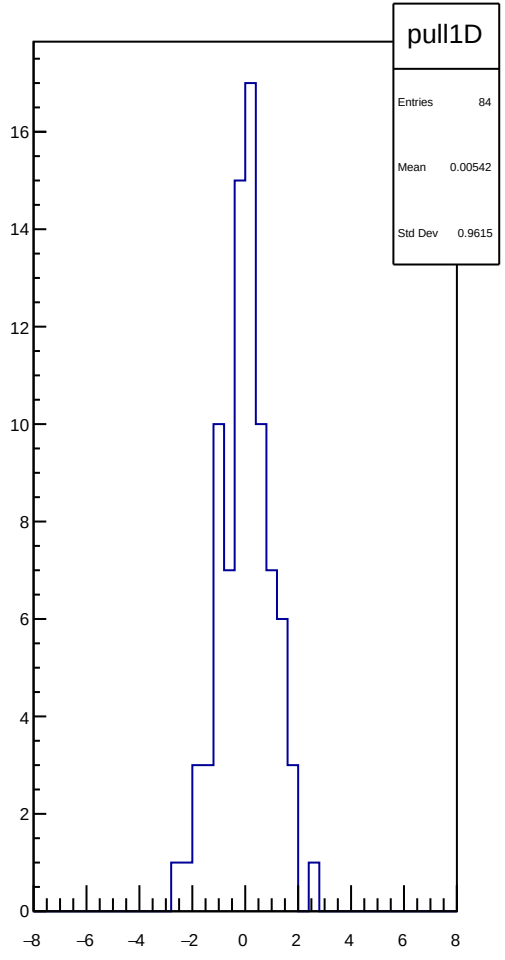

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 4715 / 83
p0 129.5 ± 0.1015
170
160
150
140
130
120

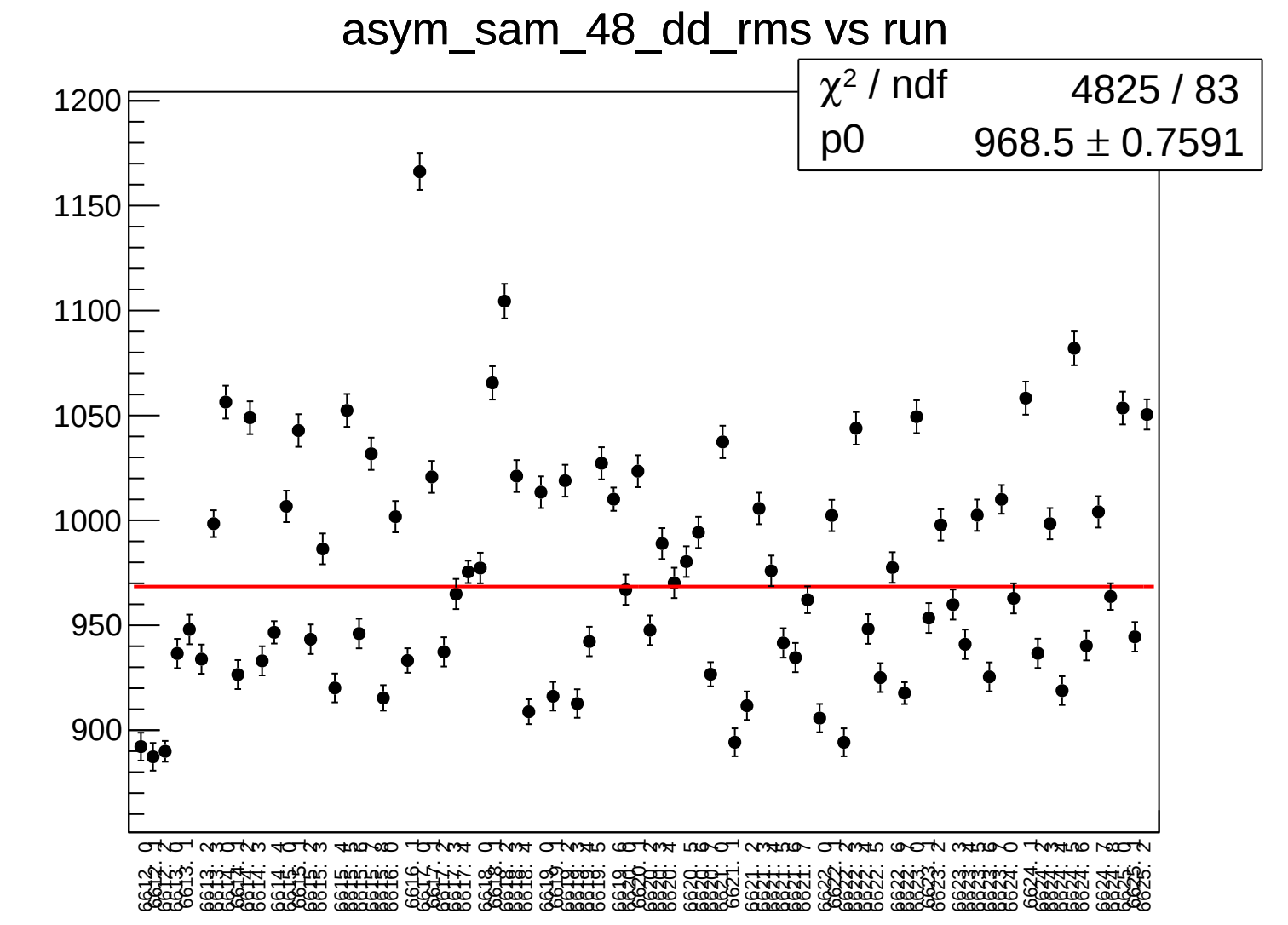

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.76 / 83
p0 −2516 ± 1079
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 96.38
Std Dev 0
2
1
0
−1
−2

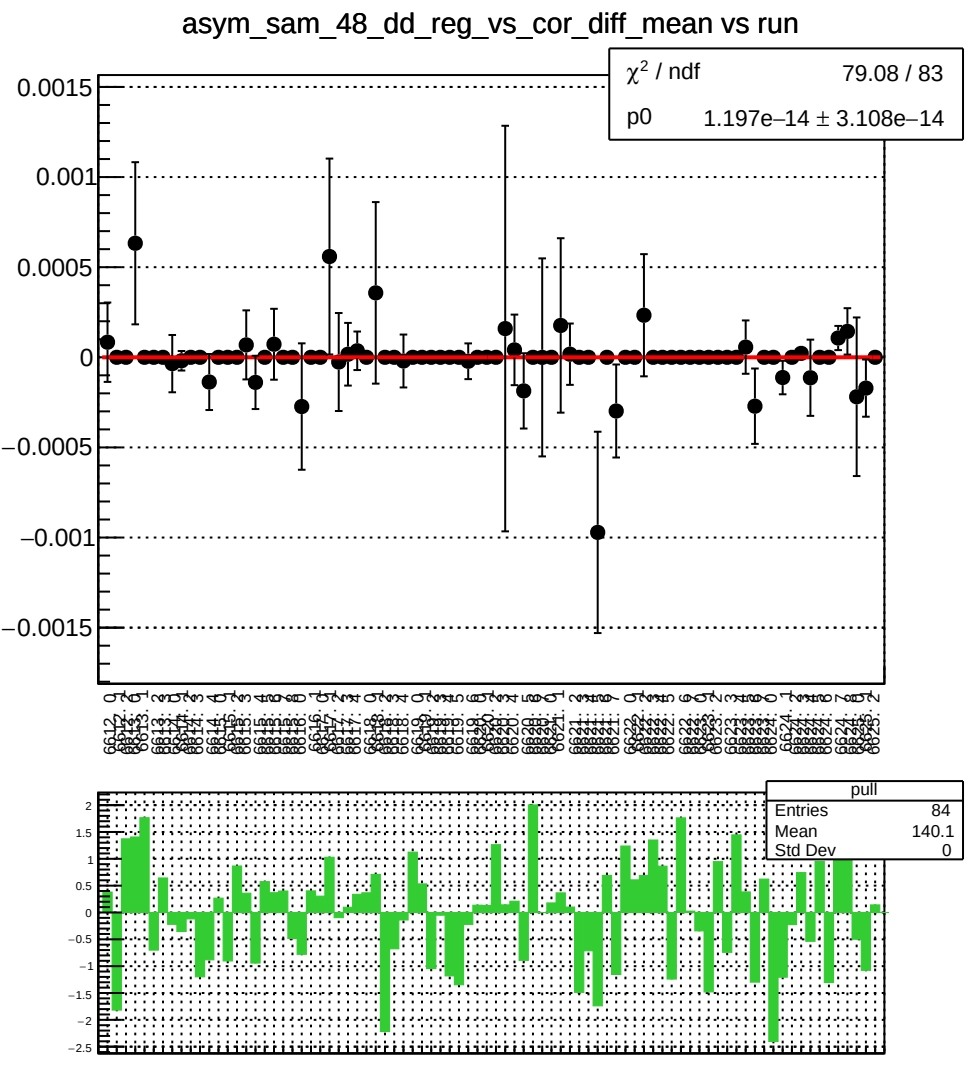

pull1D
Entries 84
Mean −0.006115
Std Dev 0.9744
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

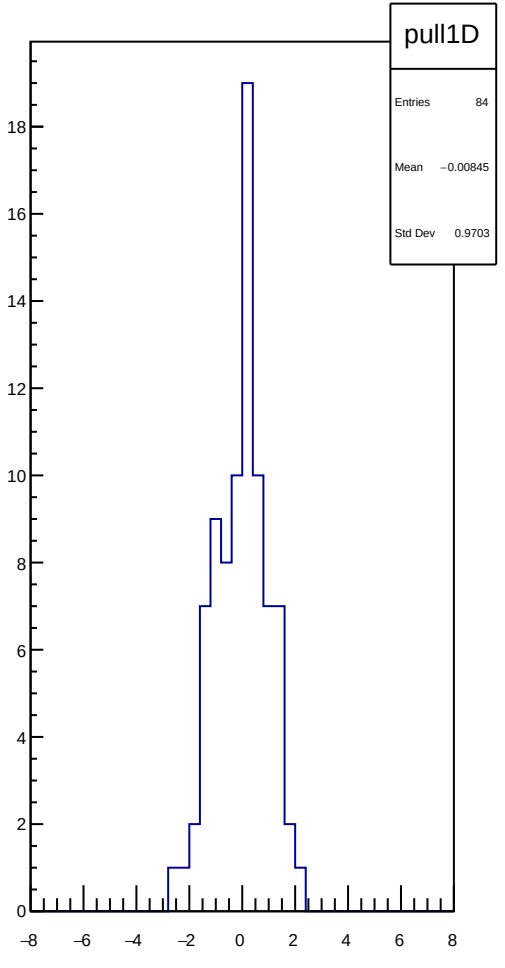

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3223 / 83
p0 974.3 ± 0.7633
1150
1100
1050
1000
950
900

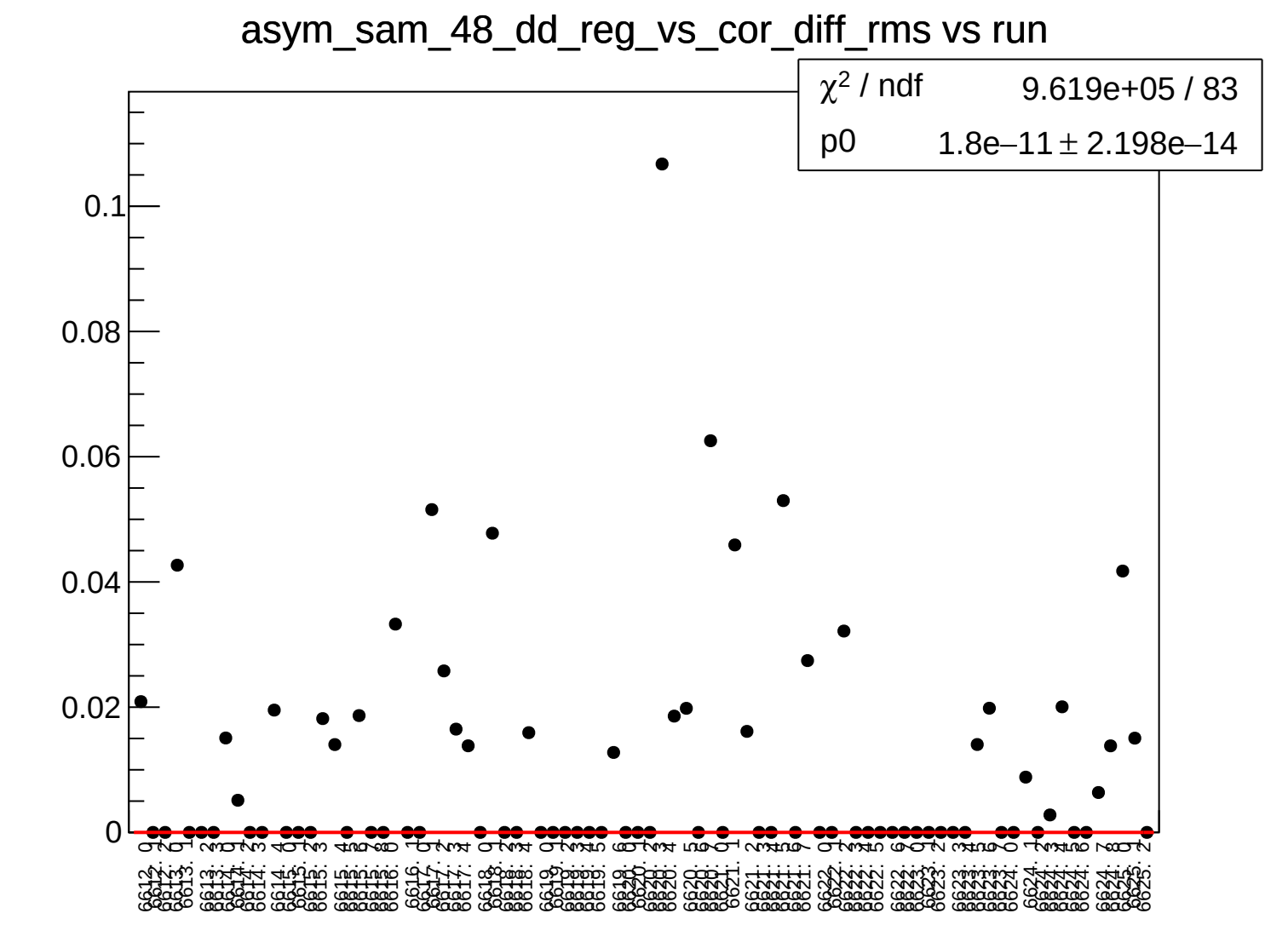

asym_sam_48_dd_mean vs run
χ² / ndf 77.66 / 83
p0 2768 ± 1073
pull
Entries 84
Mean 101.5
Std Dev 0

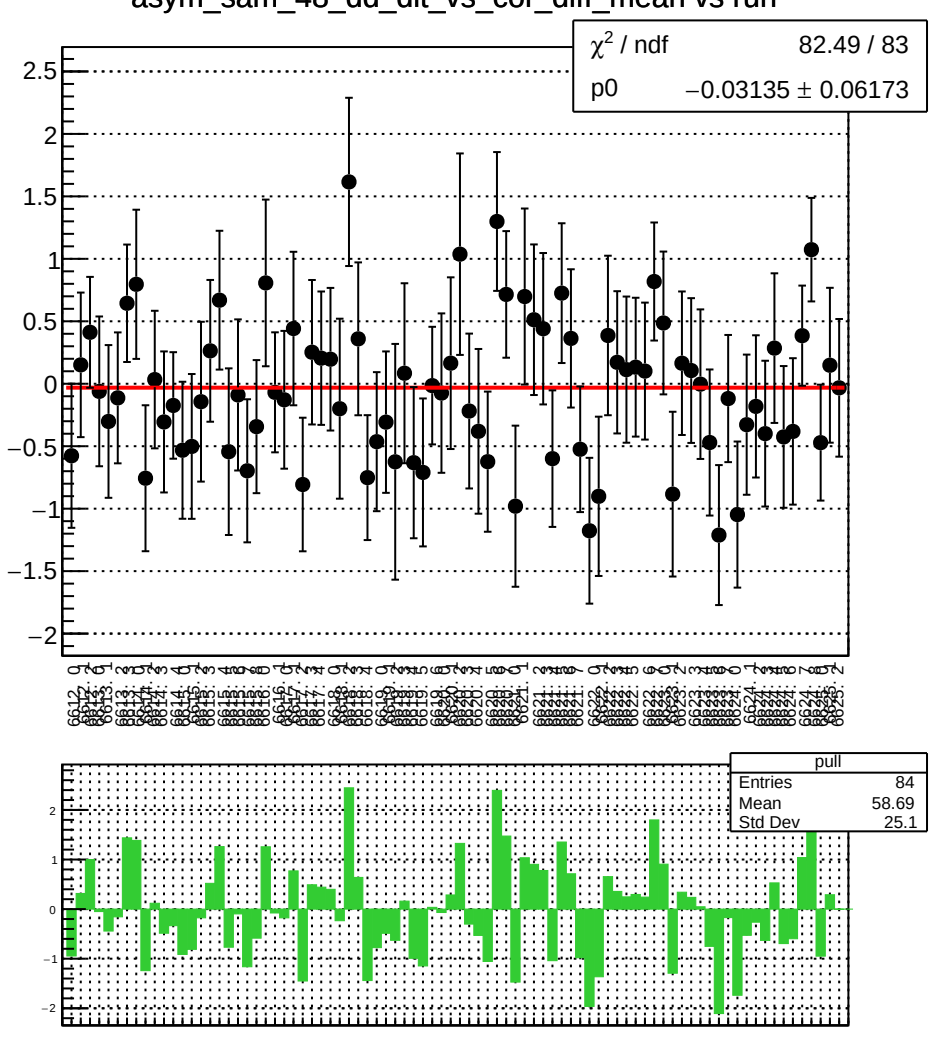

pull1D
Entries 84
Mean 0.00542
Std Dev 0.9615

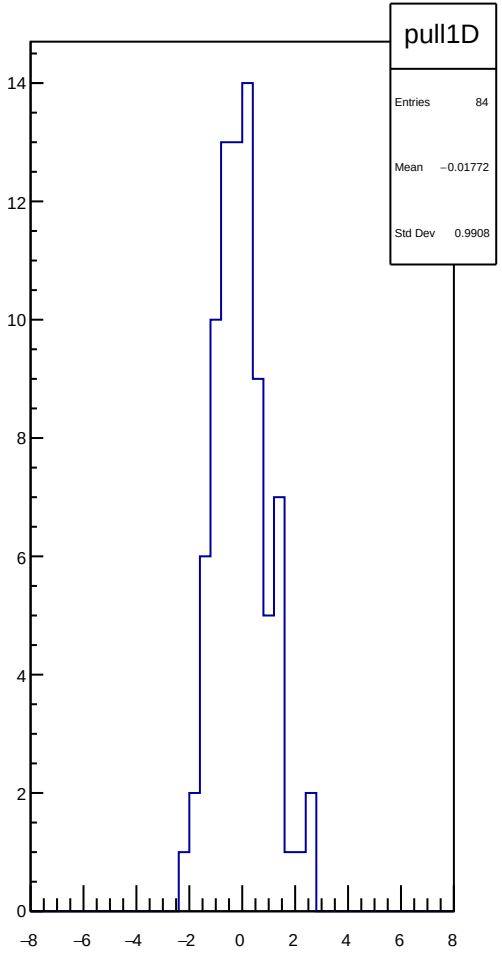

asym_sam_48_dd_rms vs run
χ² / ndf 4825 / 83
p0 968.5 ± 0.7591
1200
1150
1100
1050
1000
950
900

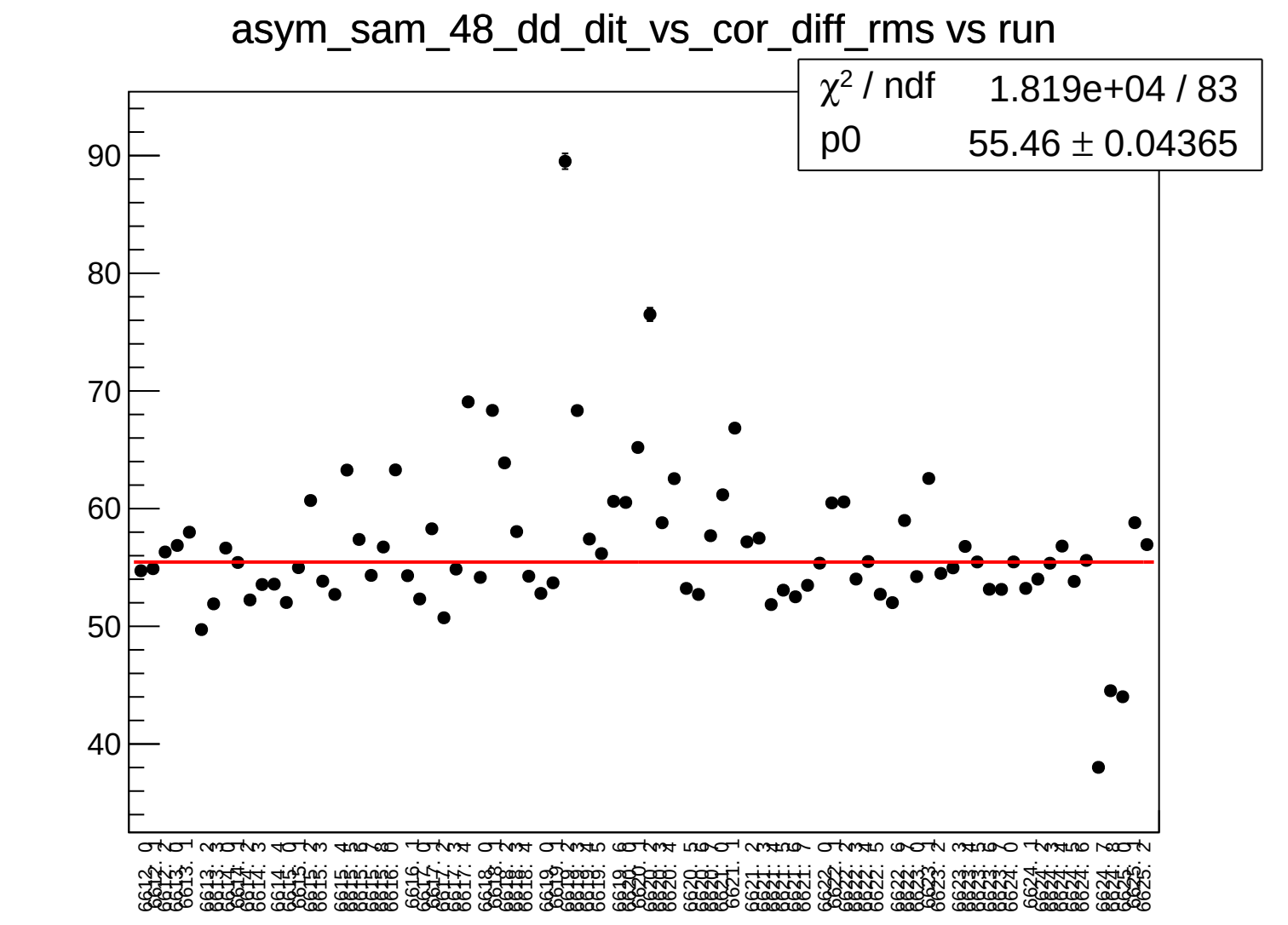

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.08 / 83
p0 1.197e−14 ± 3.108e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 84
Mean 140.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

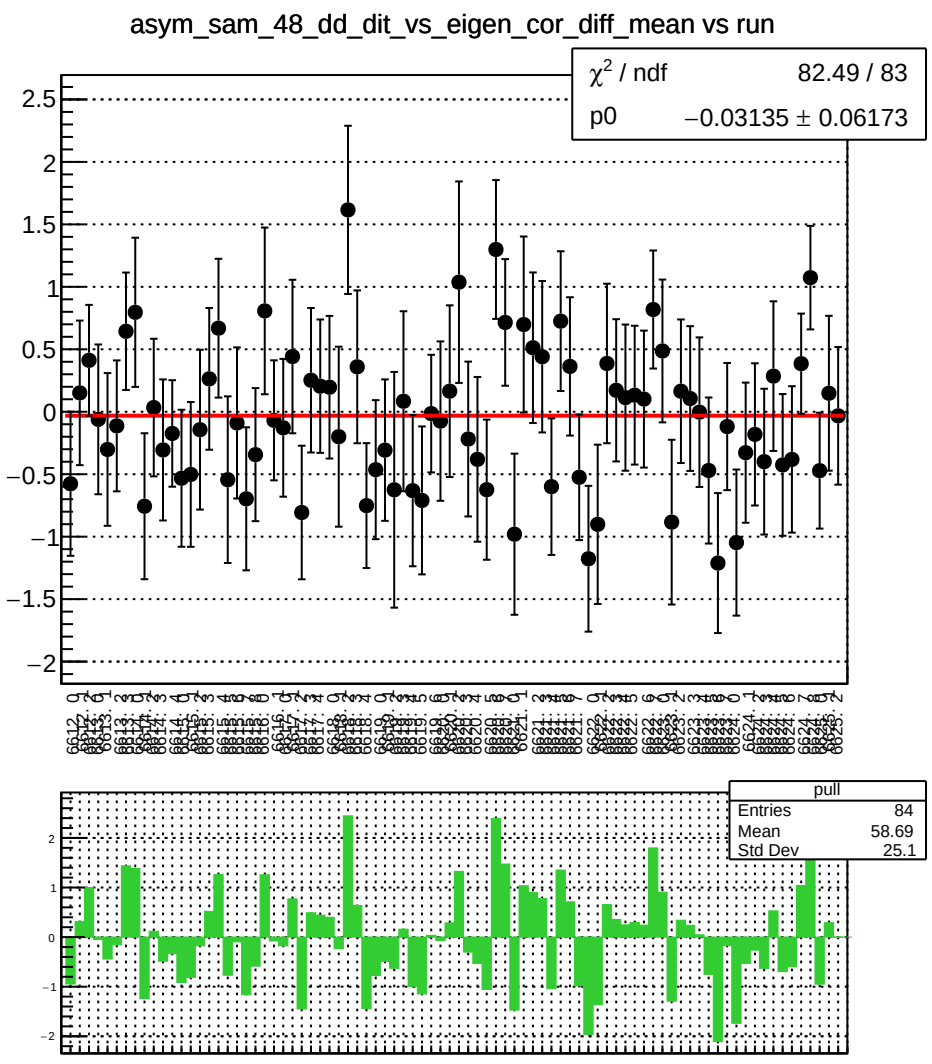

pull1D
Entries 84
Mean −0.00845
Std Dev 0.9703
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

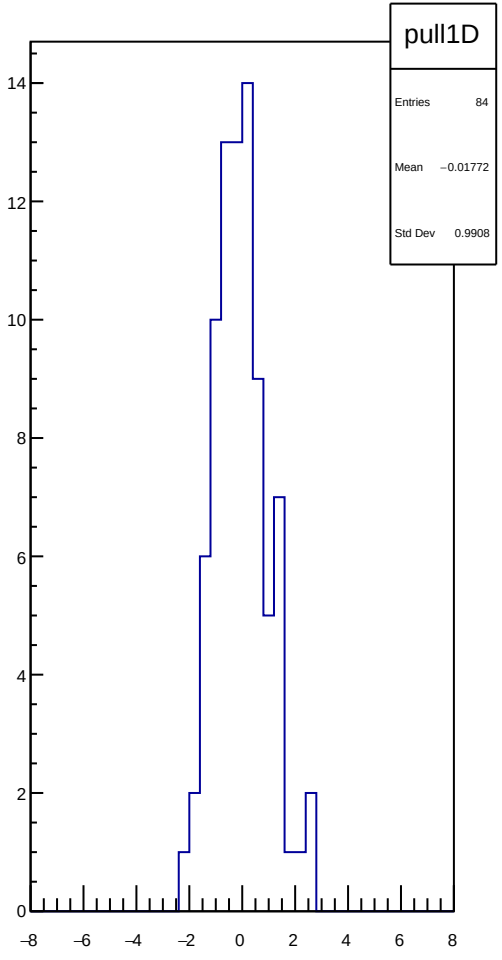

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.619e+05 / 83
p0 1.8e−11 ± 2.198e−14
0.1
0.08
0.06
0.04
0.02
0

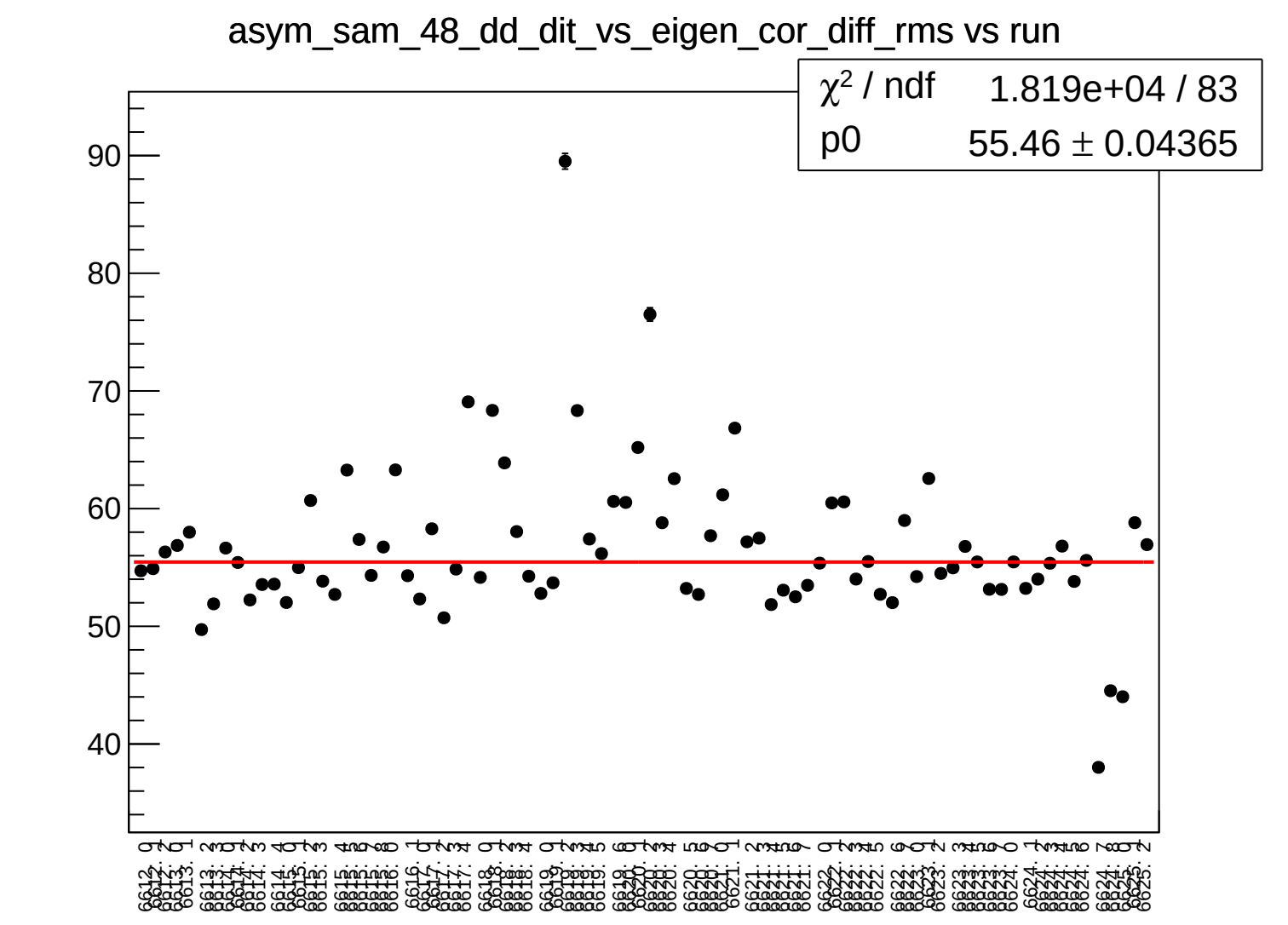

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.49 / 83
p0 −0.03135 ± 0.06173
pull
Entries 84
Mean 58.69
Std Dev 25.1

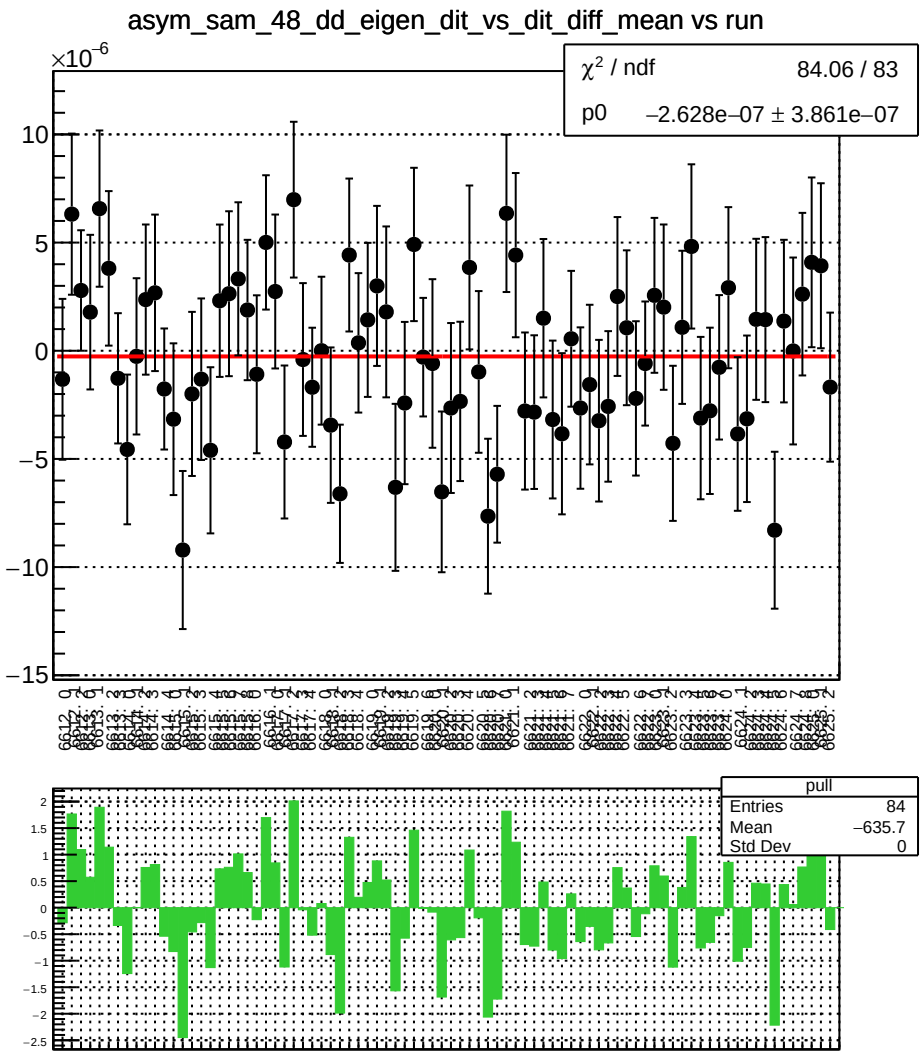

pull1D
Entries 84
Mean −0.01772
Std Dev 0.9908

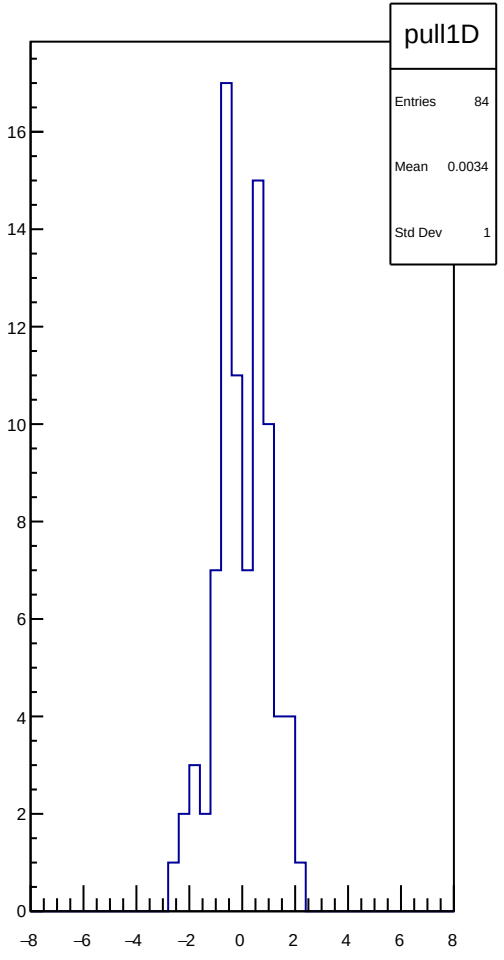

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.819e+04 / 83
p0 55.46 ± 0.04365
90
80
70
60
50
40

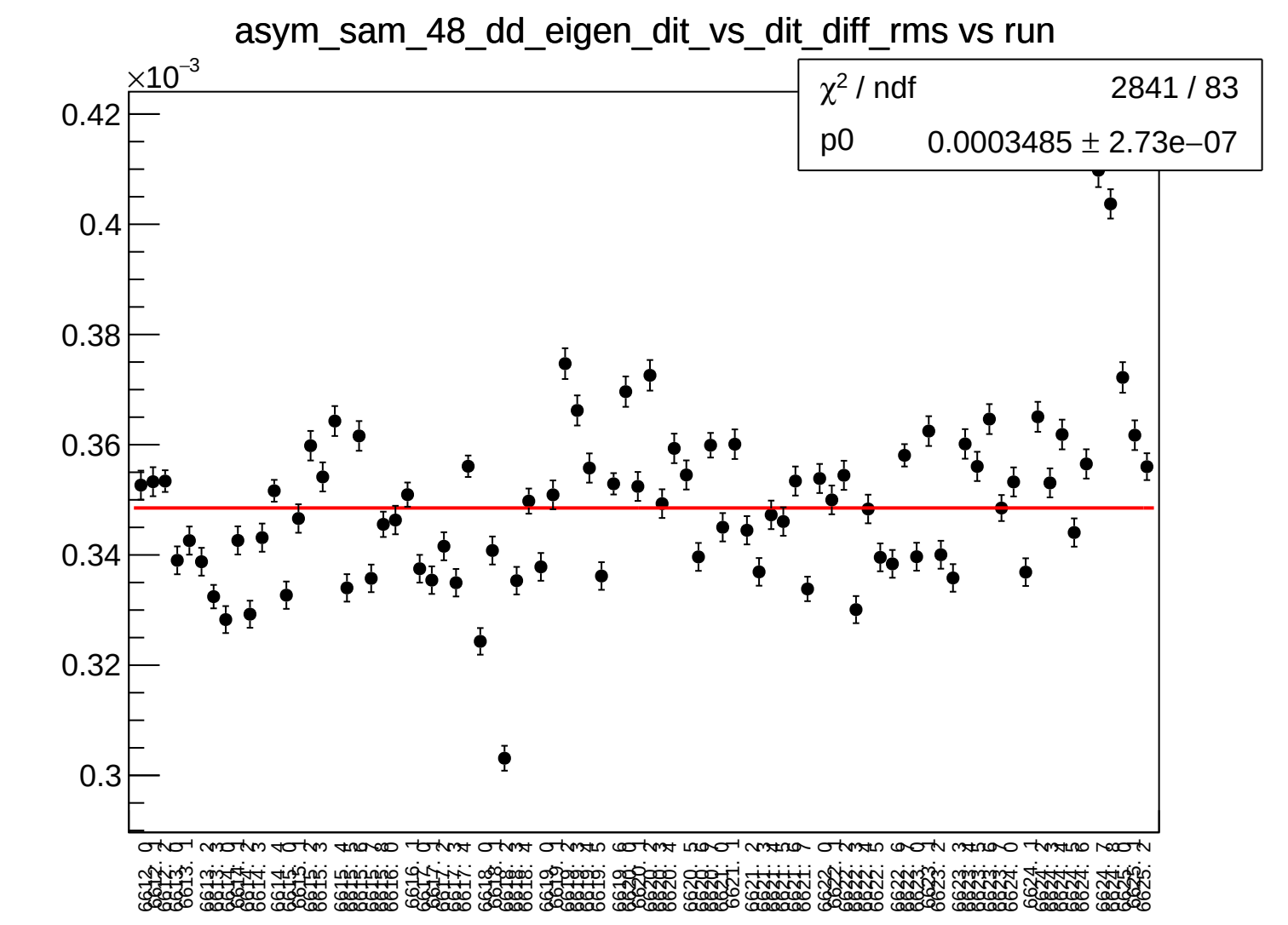

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.49 / 83
p0 −0.03135 ± 0.06173
pull
Entries 84
Mean 58.69
Std Dev 25.1

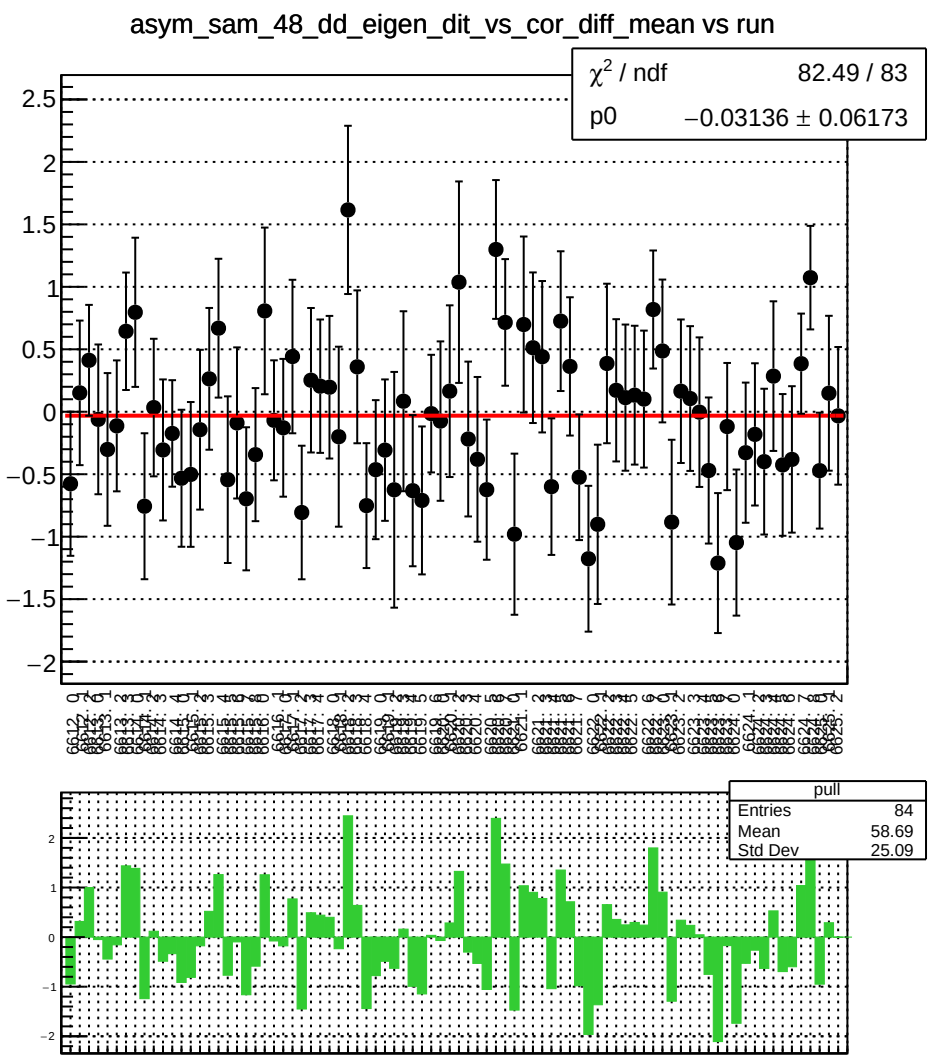

pull1D
Entries 84
Mean −0.01772
Std Dev 0.9908

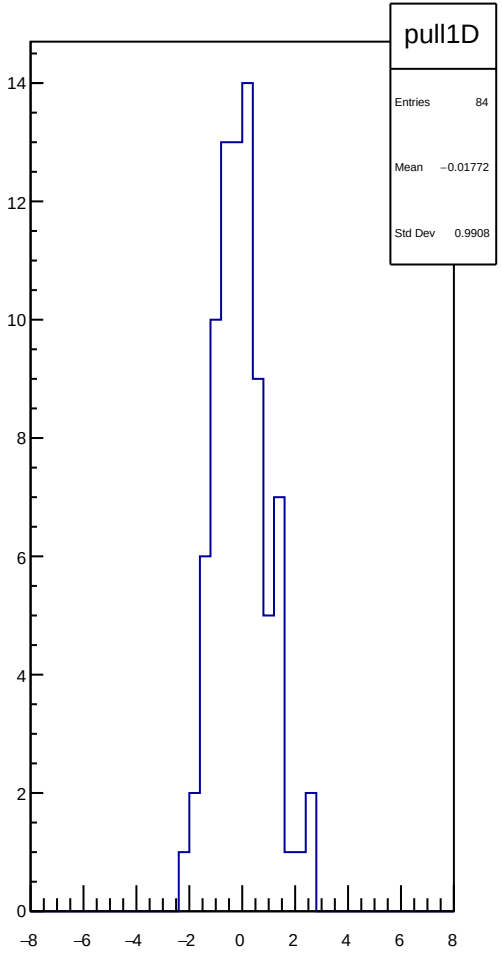

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.819e+04 / 83
p0 55.46 ± 0.04365
90
80
70
60
50
40

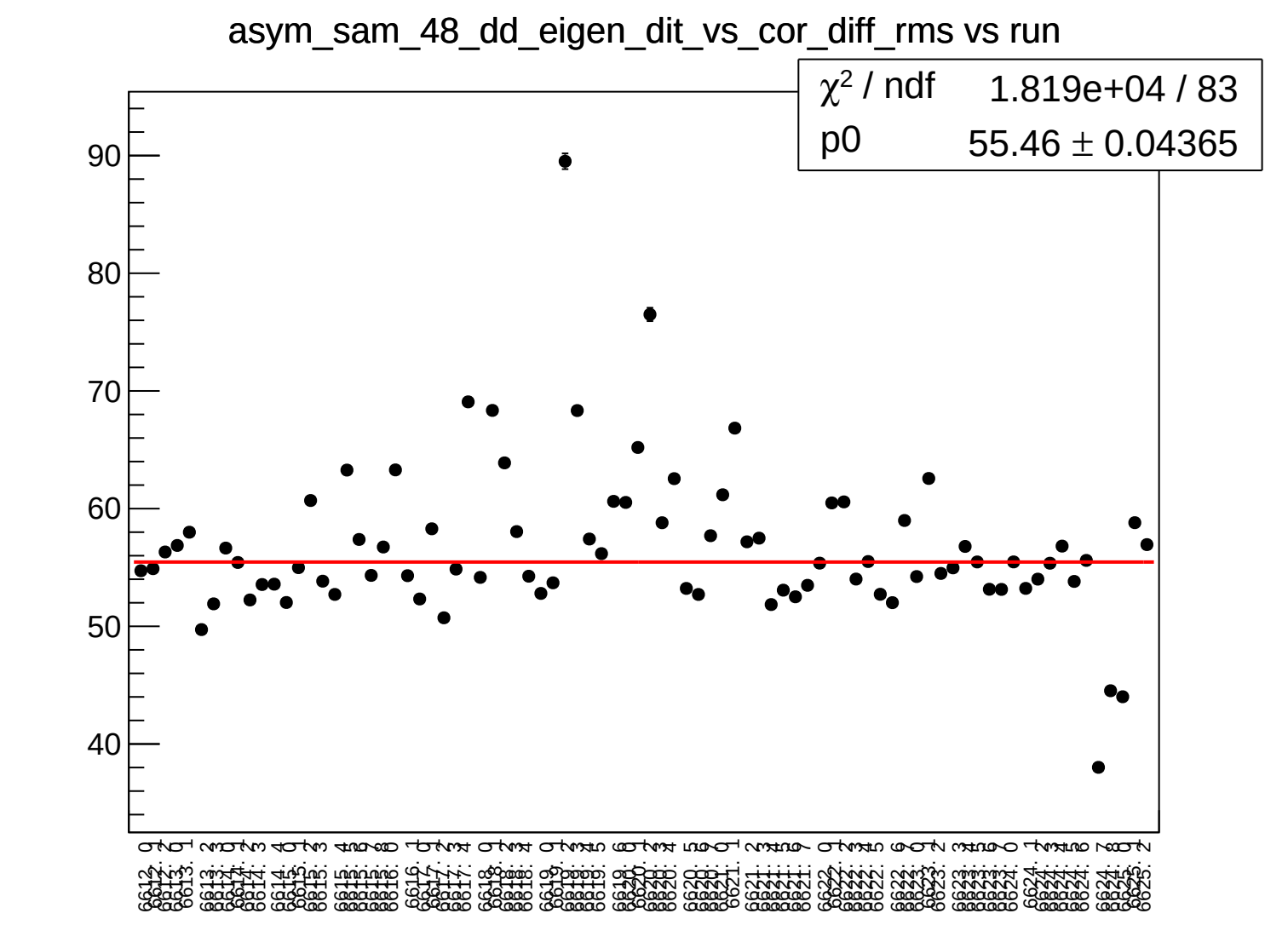

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 84.06 / 83
p0 −2.628e−07 ± 3.861e−07
pull
Entries 84
Mean −635.7
Std Dev 0

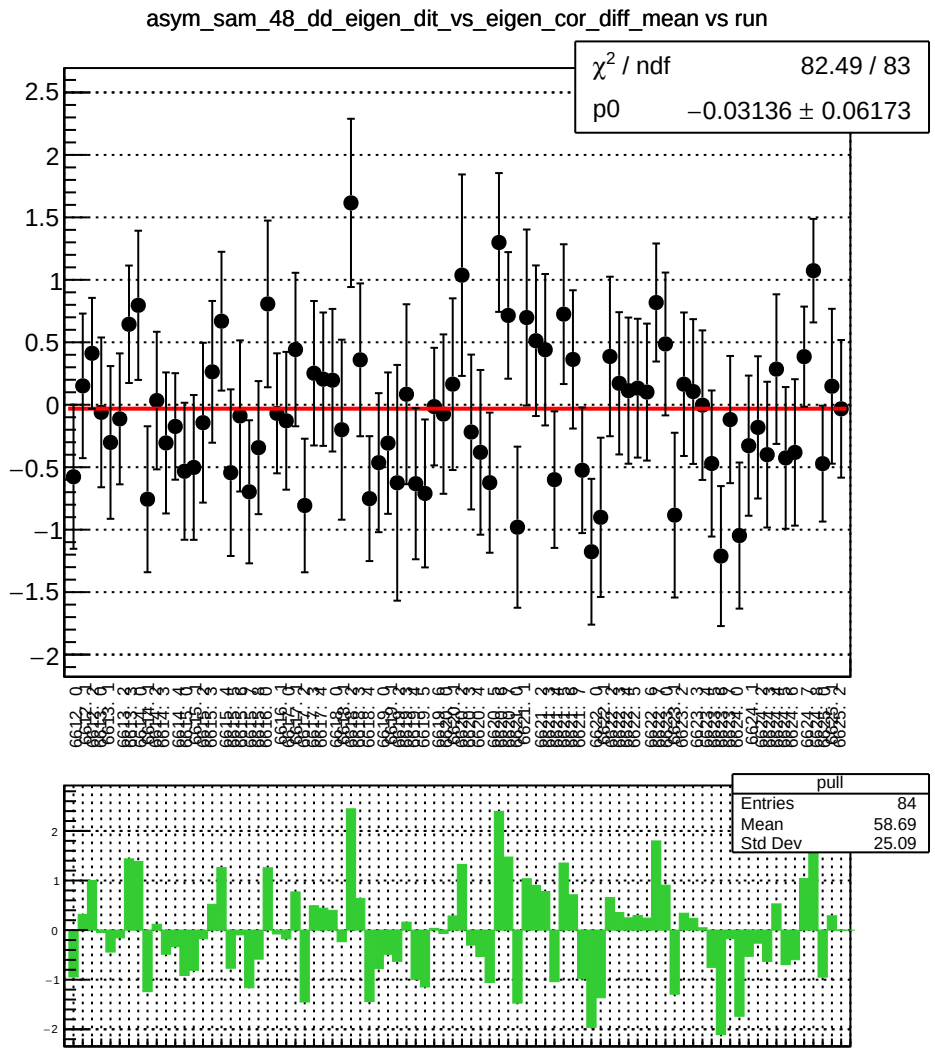

pull1D
Entries 84
Mean 0.0034
Std Dev 1

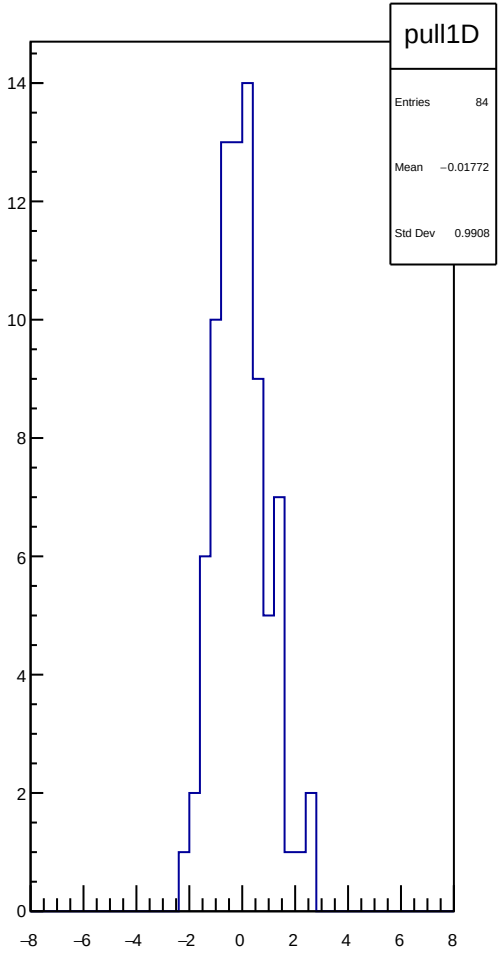

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 2841 / 83
p0 0.0003485 ± 2.73e−07
0.42
0.4
0.38
0.36
0.34
0.32
0.3

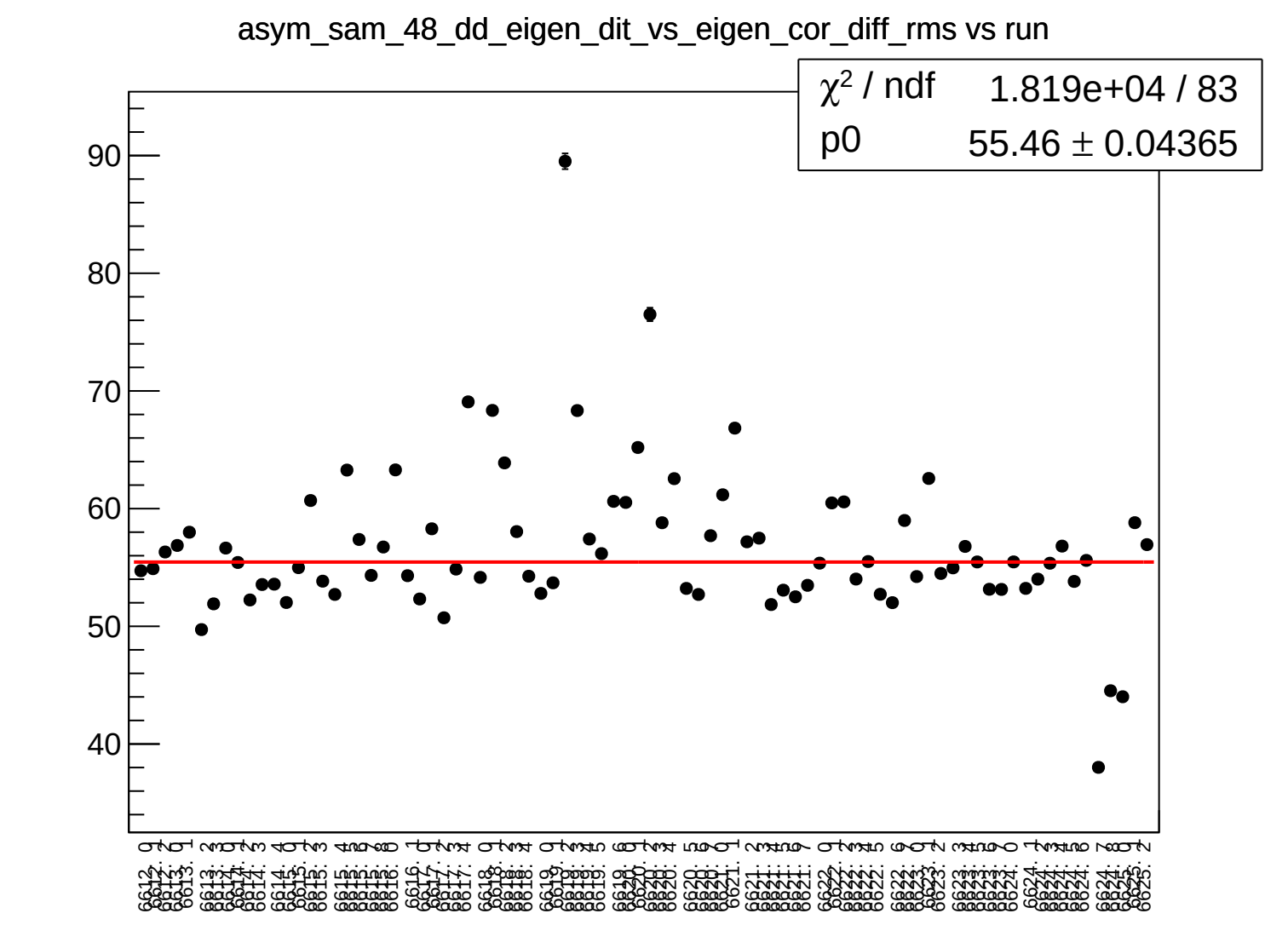

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.49 / 83
p0 −0.03136 ± 0.06173
pull
Entries 84
Mean 58.69
Std Dev 25.09

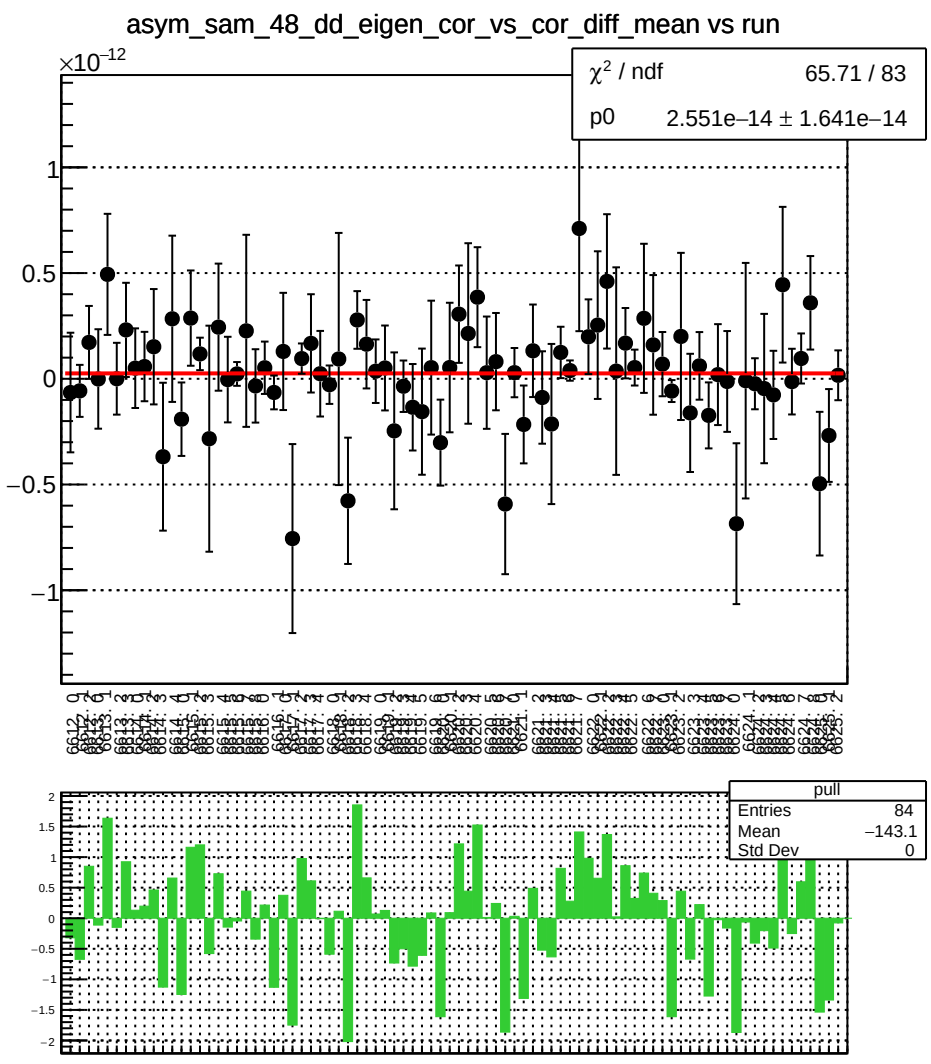

pull1D
Entries 84
Mean −0.01772
Std Dev 0.9908

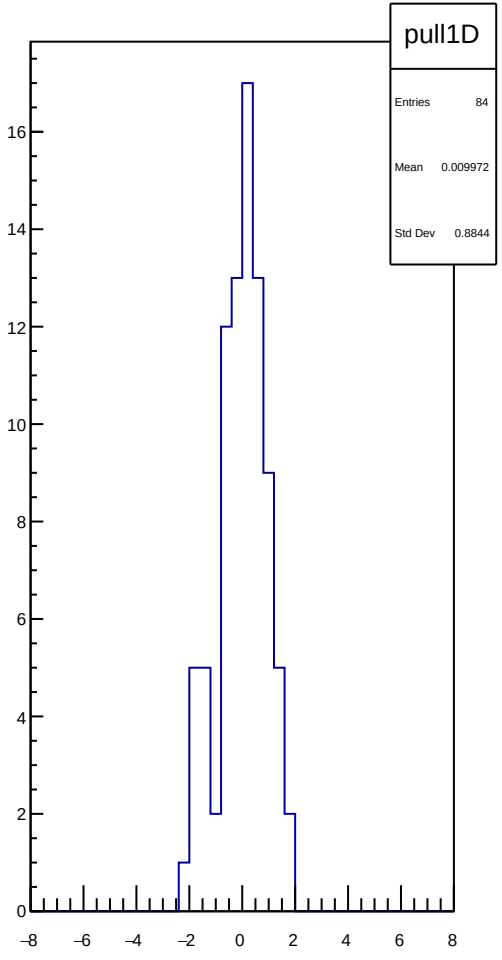

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.819e+04 / 83
p0 55.46 ± 0.04365
90
80
70
60
50
40

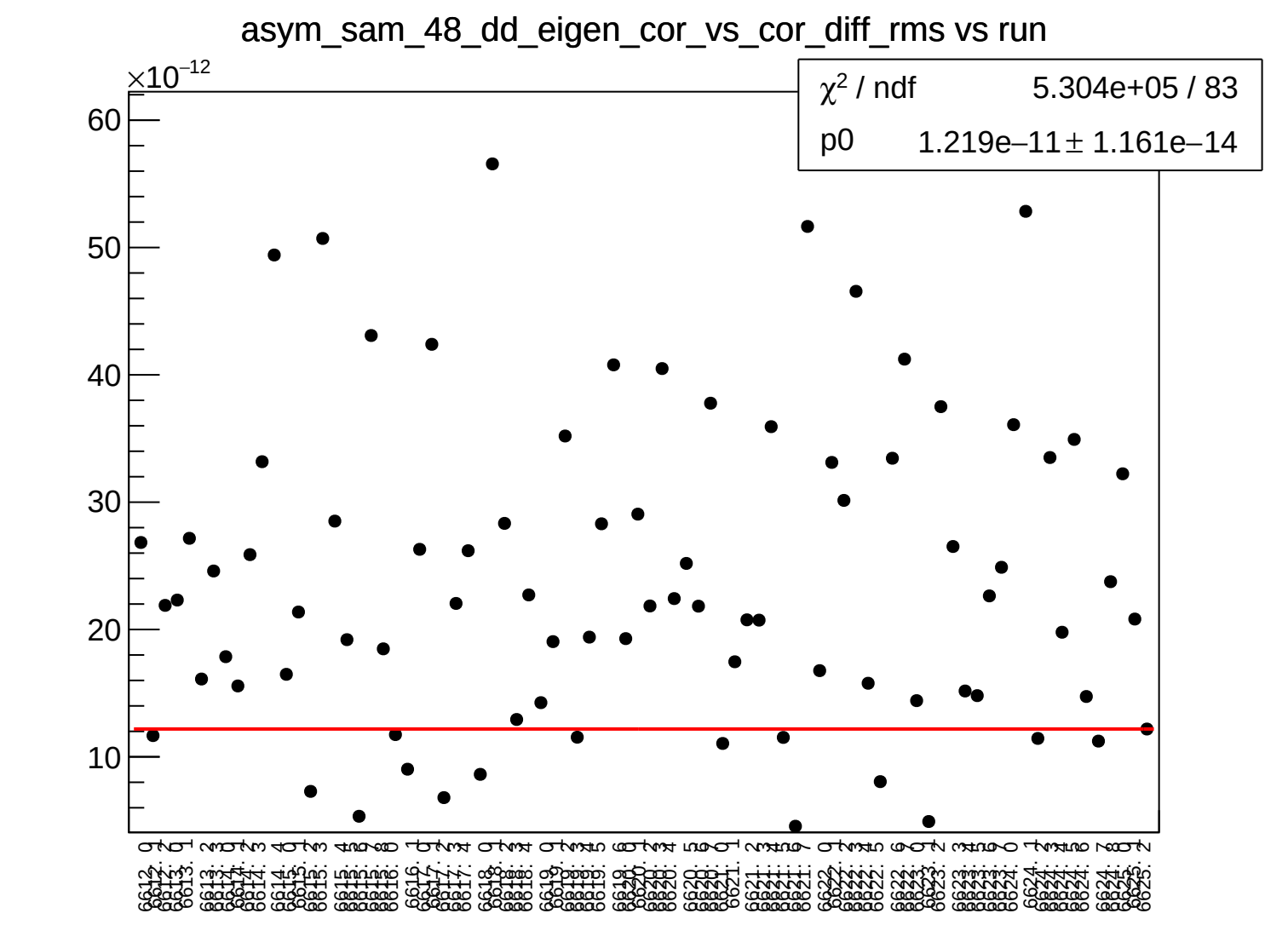

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.49 / 83
p0 −0.03136 ± 0.06173
pull
Entries 84
Mean 58.69
Std Dev 25.09

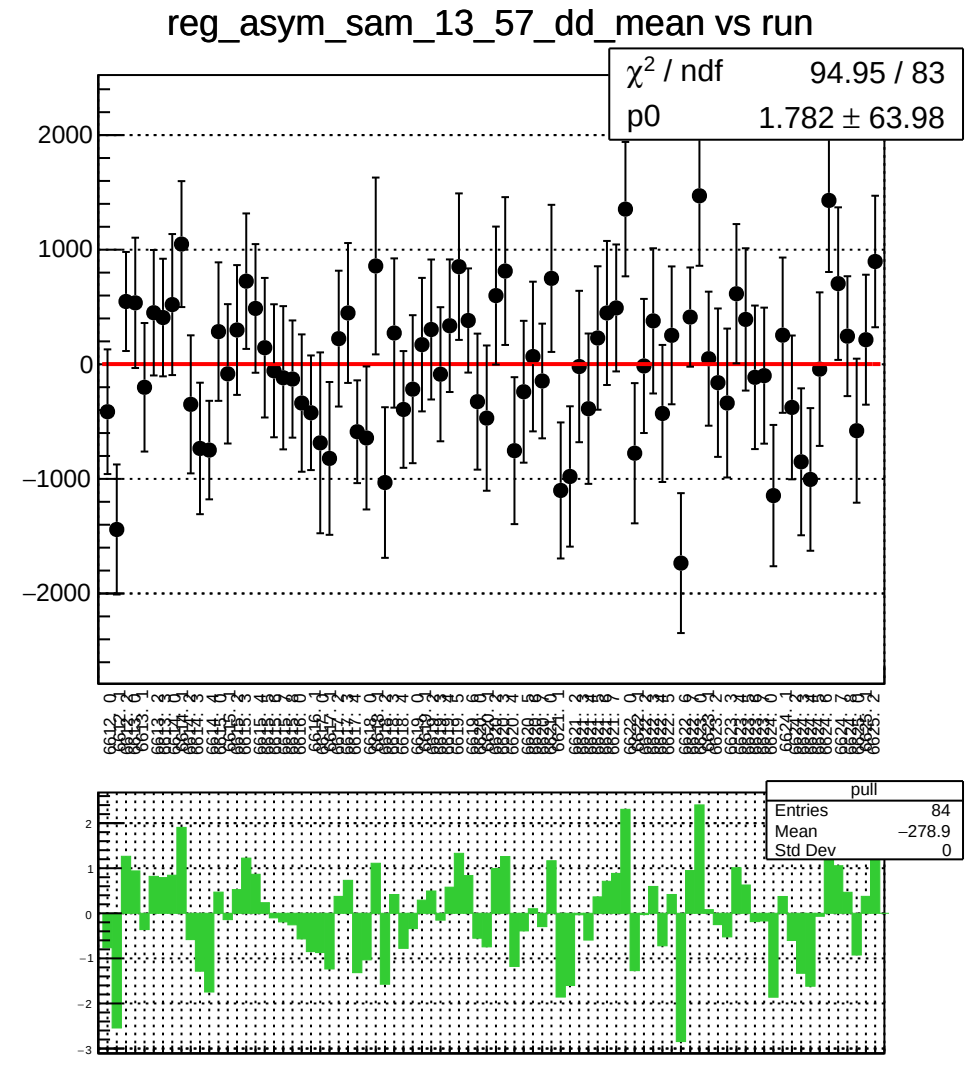

pull1D
Entries 84
Mean −0.01772
Std Dev 0.9908

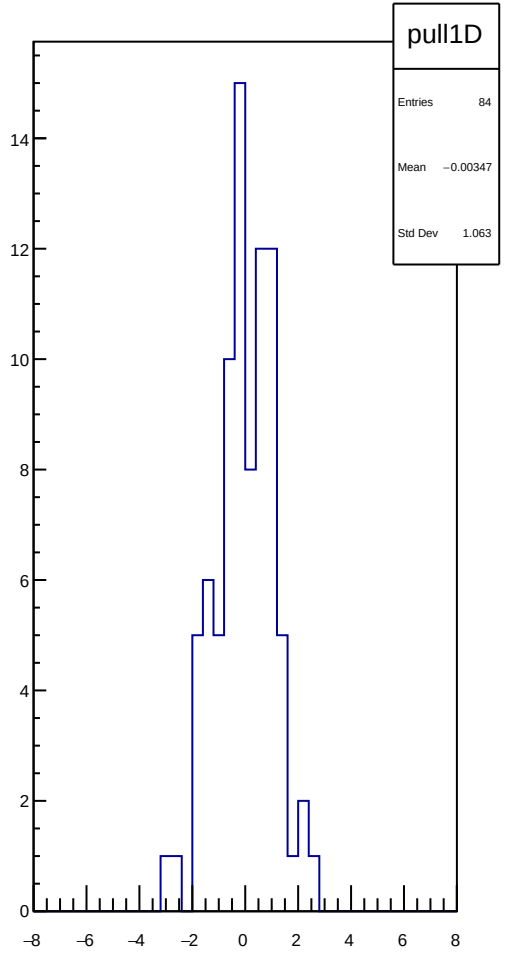

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.819e+04 / 83
p0 55.46 ± 0.04365
90
80
70
60
50
40

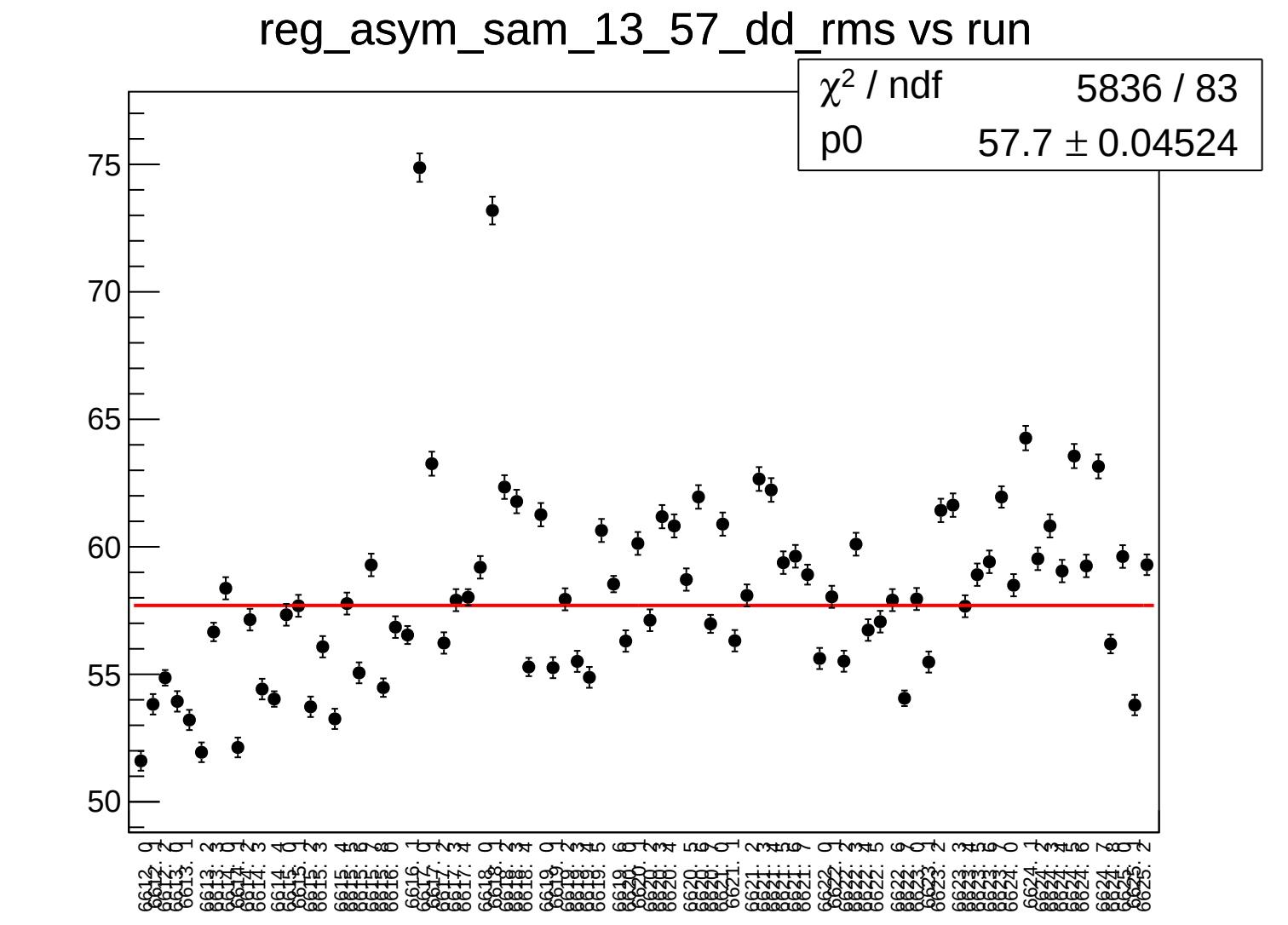

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 65.71 / 83
p0 2.551e−14 ± 1.641e−14
pull
Entries 84
Mean −143.1
Std Dev 0

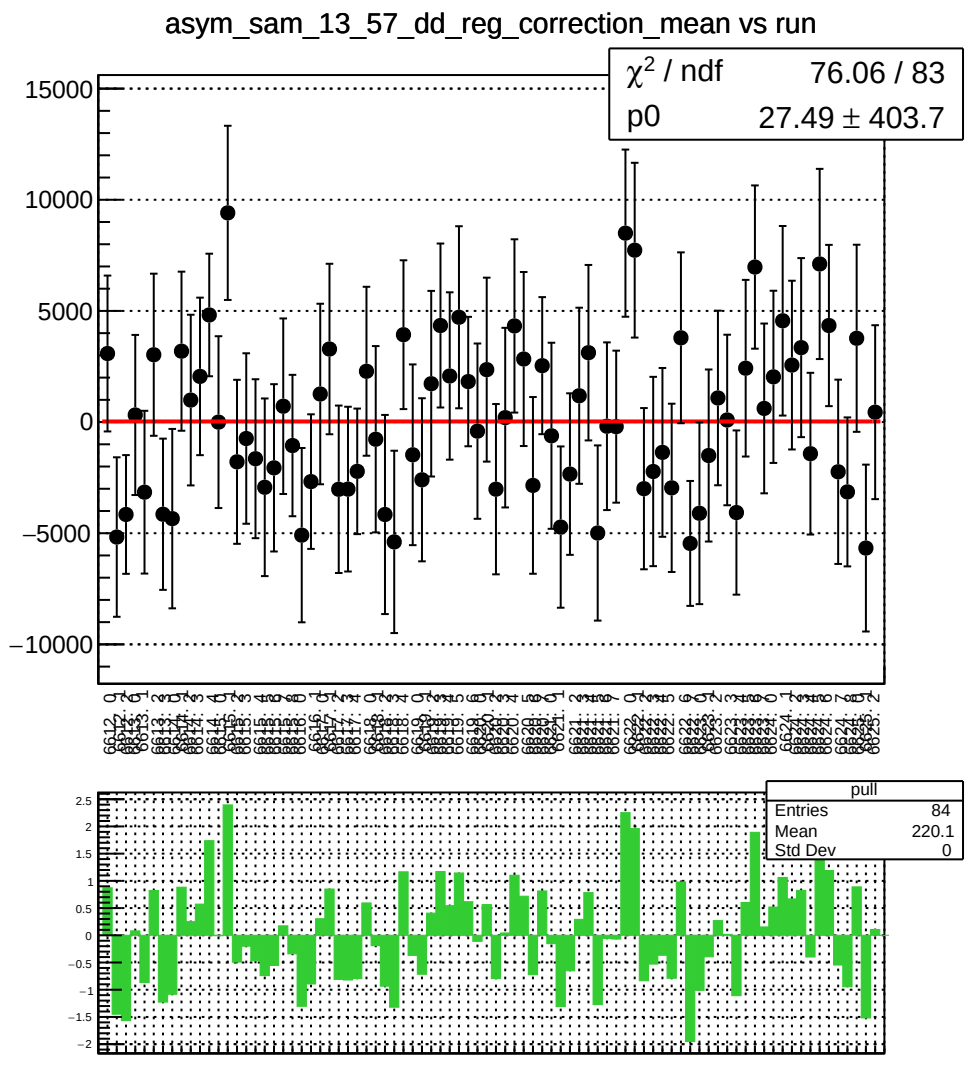

pull1D
Entries 84
Mean 0.009972
Std Dev 0.8844

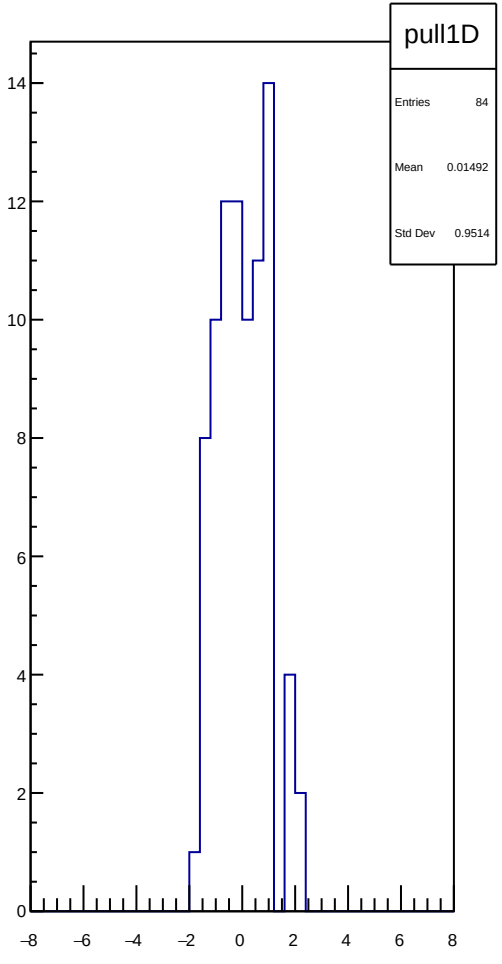

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 5.304e+05 / 83
p0 1.219e−11 ± 1.161e−14

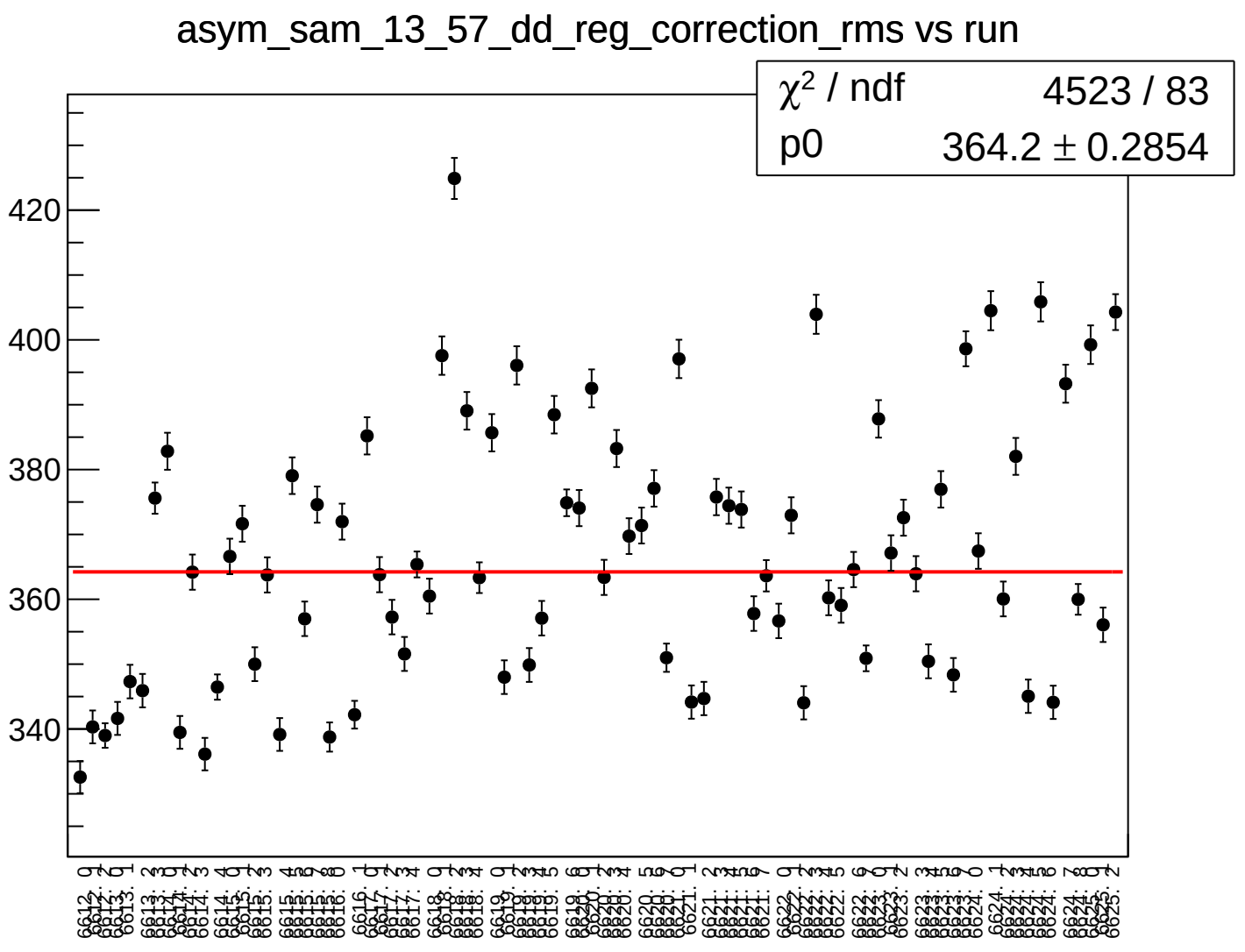

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 94.95 / 83
p0 1.782 ± 63.98
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −278.9
Std Dev 0
2
1
0
−1
−2
−3

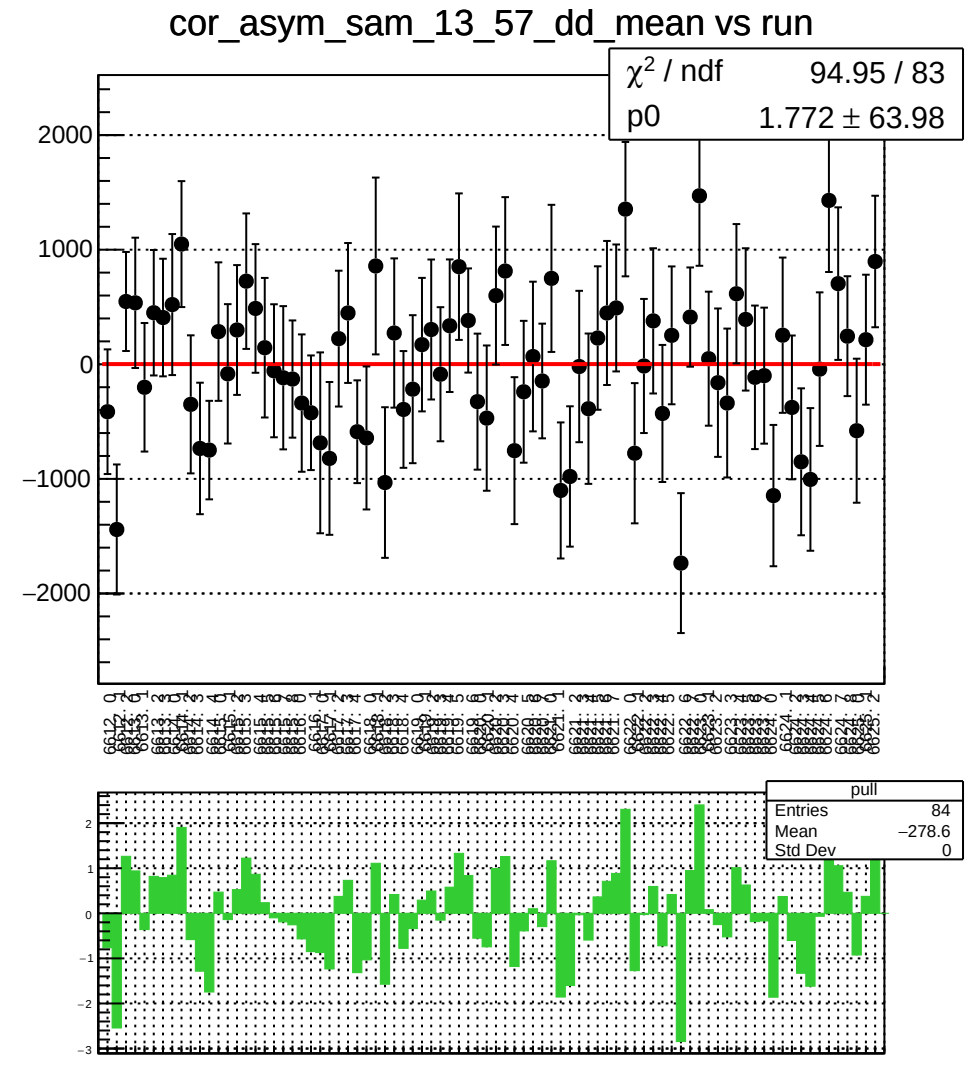

pull1D
Entries 84
Mean −0.00347
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

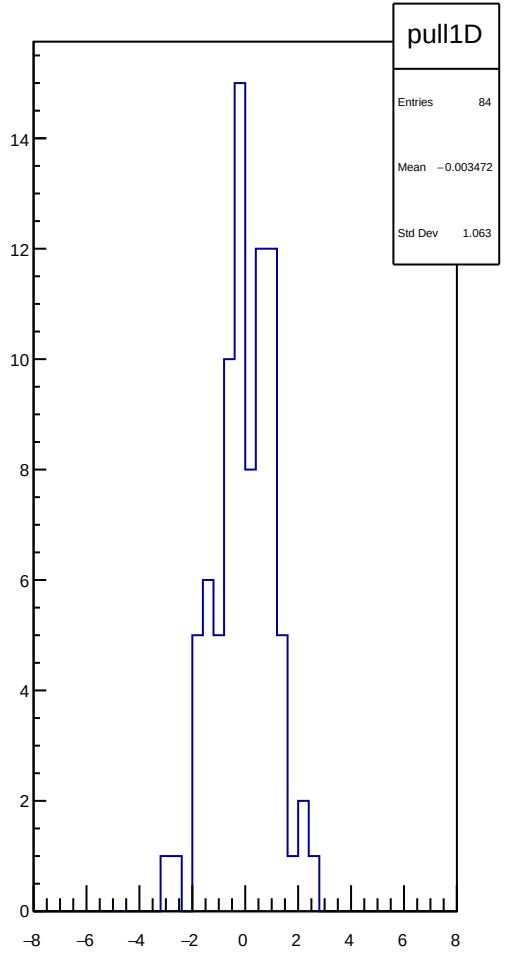

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 5836 / 83
p0 57.7 ± 0.04524
75
70
65
60
55
50

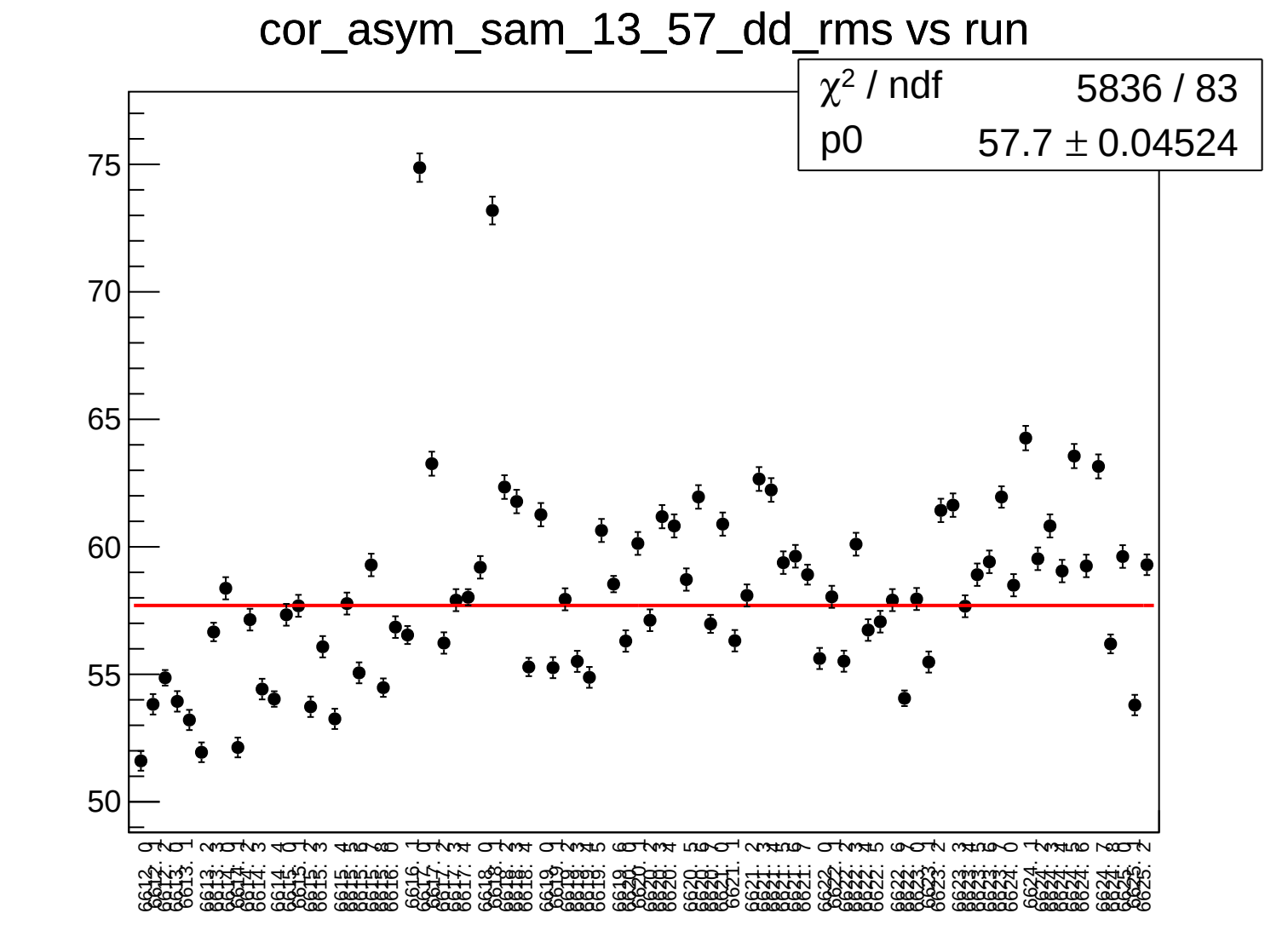

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 76.06 / 83
p0 27.49 ± 403.7
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 220.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

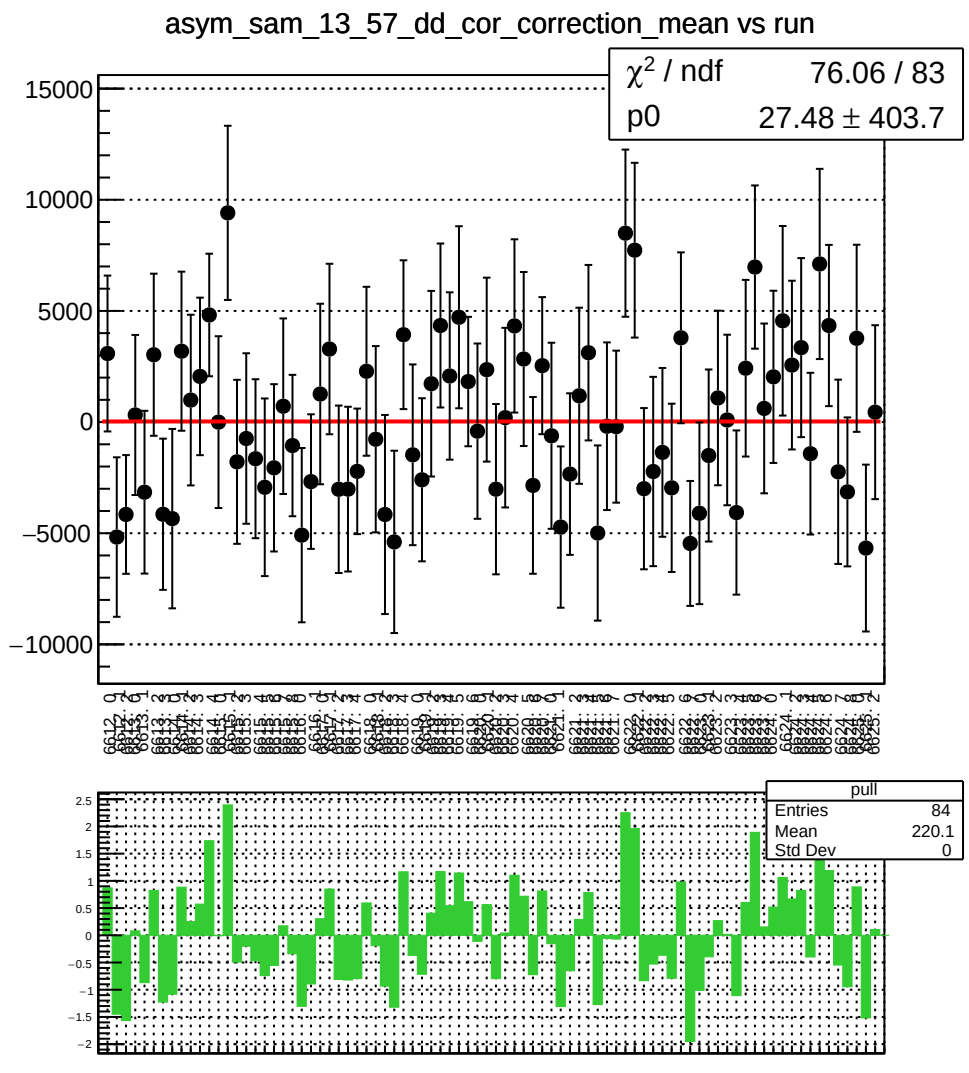

pull1D
Entries 84
Mean 0.01492
Std Dev 0.9514
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

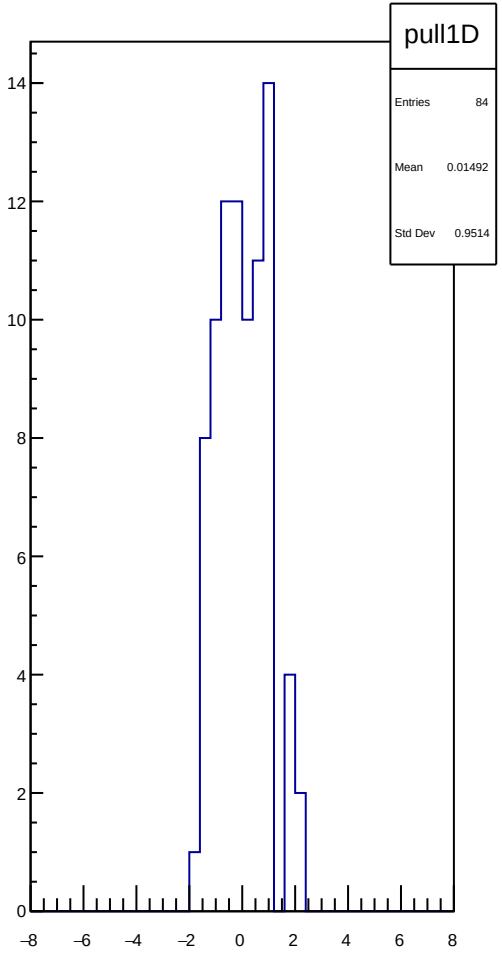

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 4523 / 83
p0 364.2 ± 0.2854
420
400
380
360
340

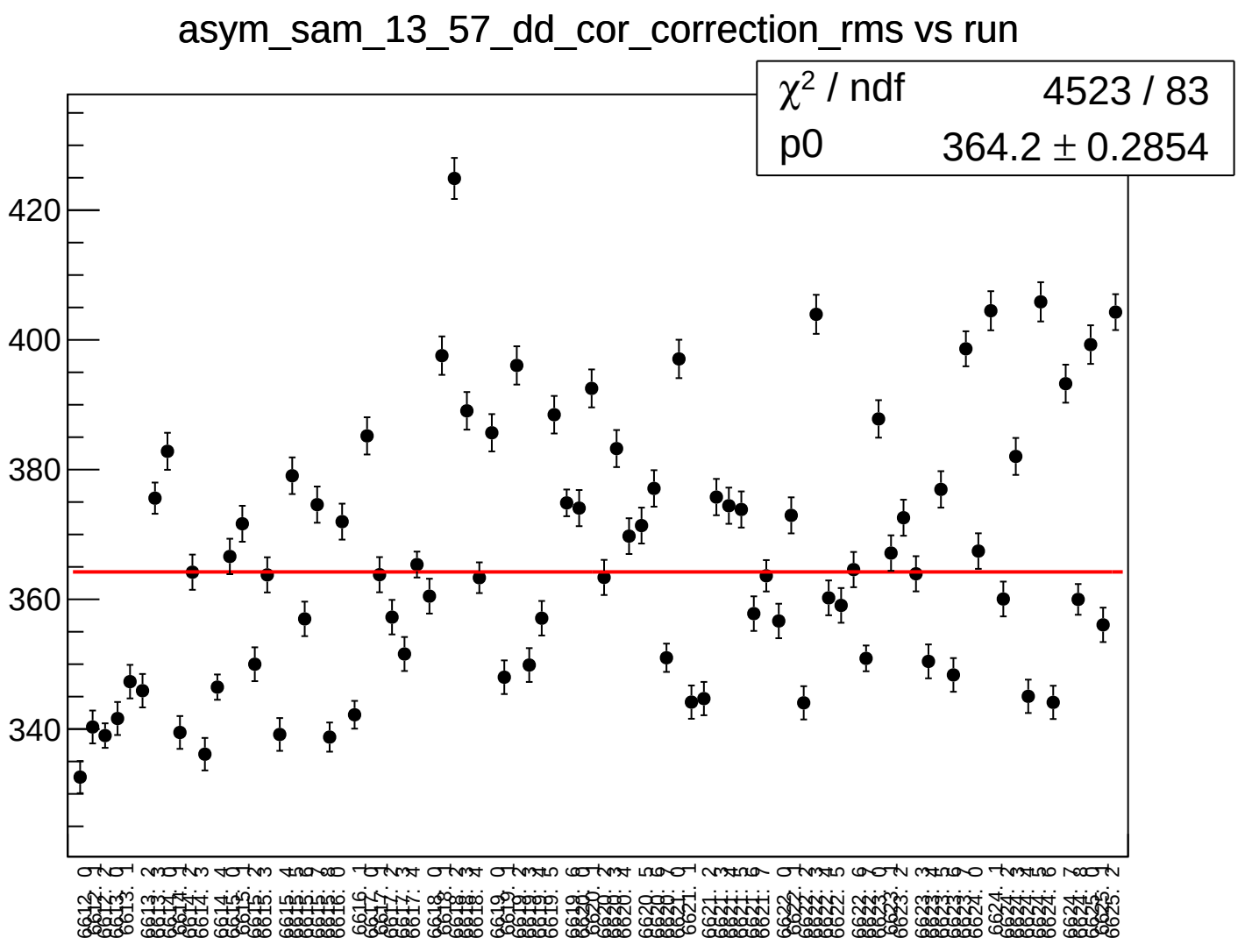

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 94.95 / 83
p0 1.772 ± 63.98
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −278.6
Std Dev 0
2
1
0
−1
−2
−3

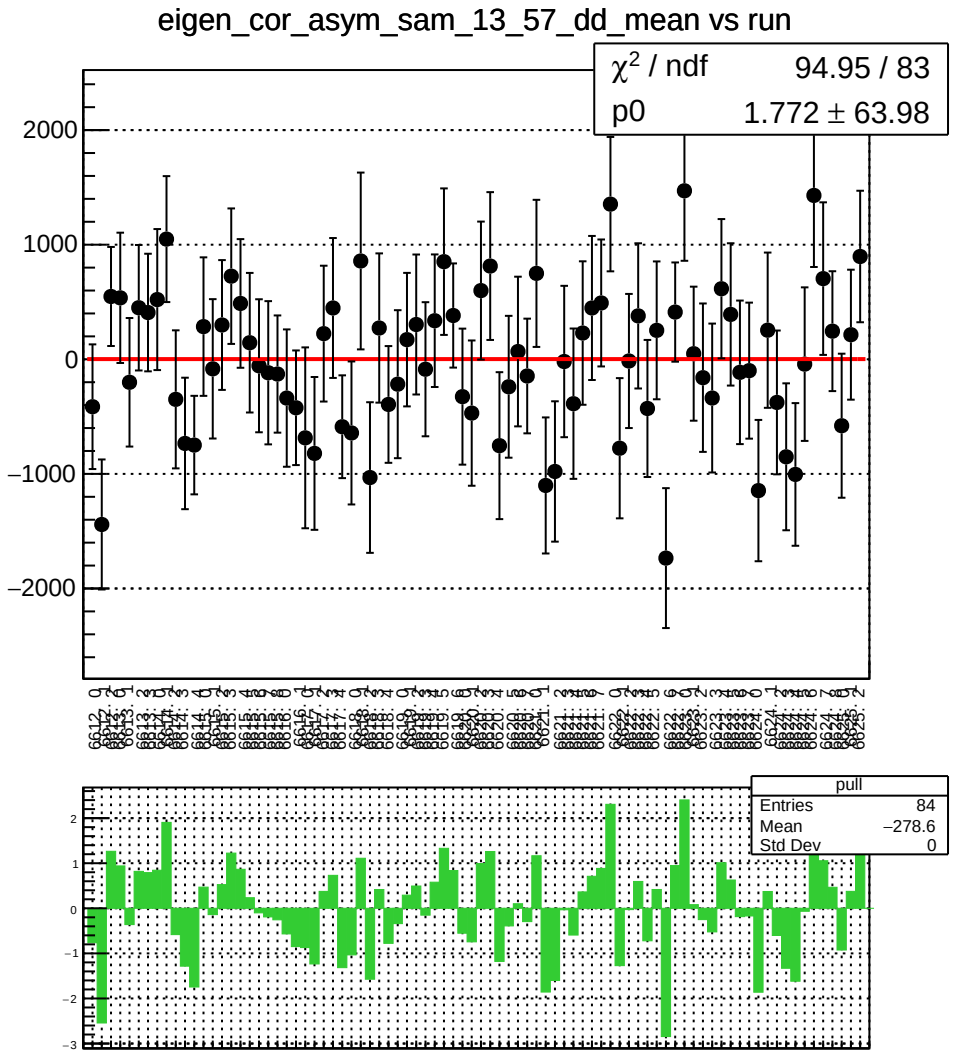

pull1D
Entries 84
Mean −0.003472
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

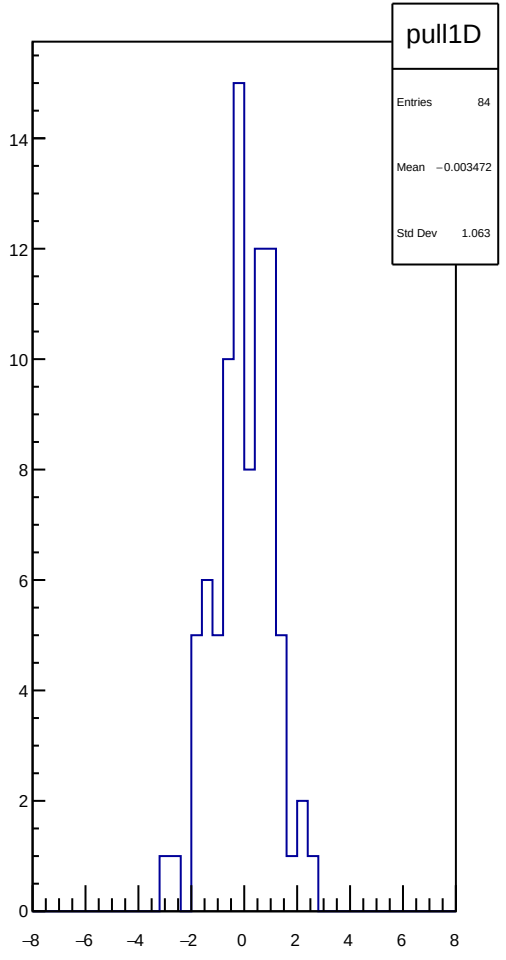

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 5836 / 83
p0 57.7 ± 0.04524
75
70
65
60
55
50

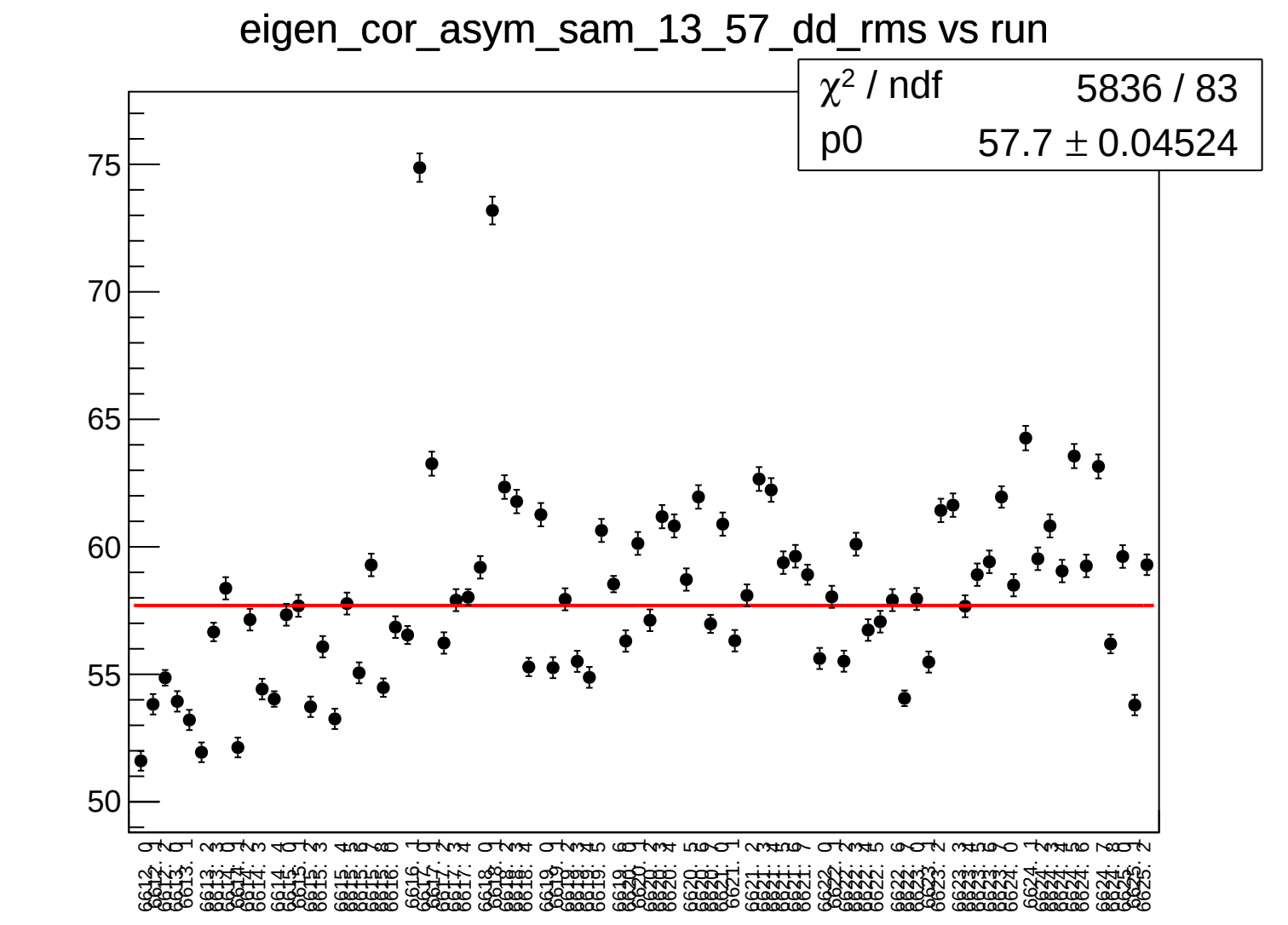

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 76.06 / 83
p0 27.48 ± 403.7
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 220.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

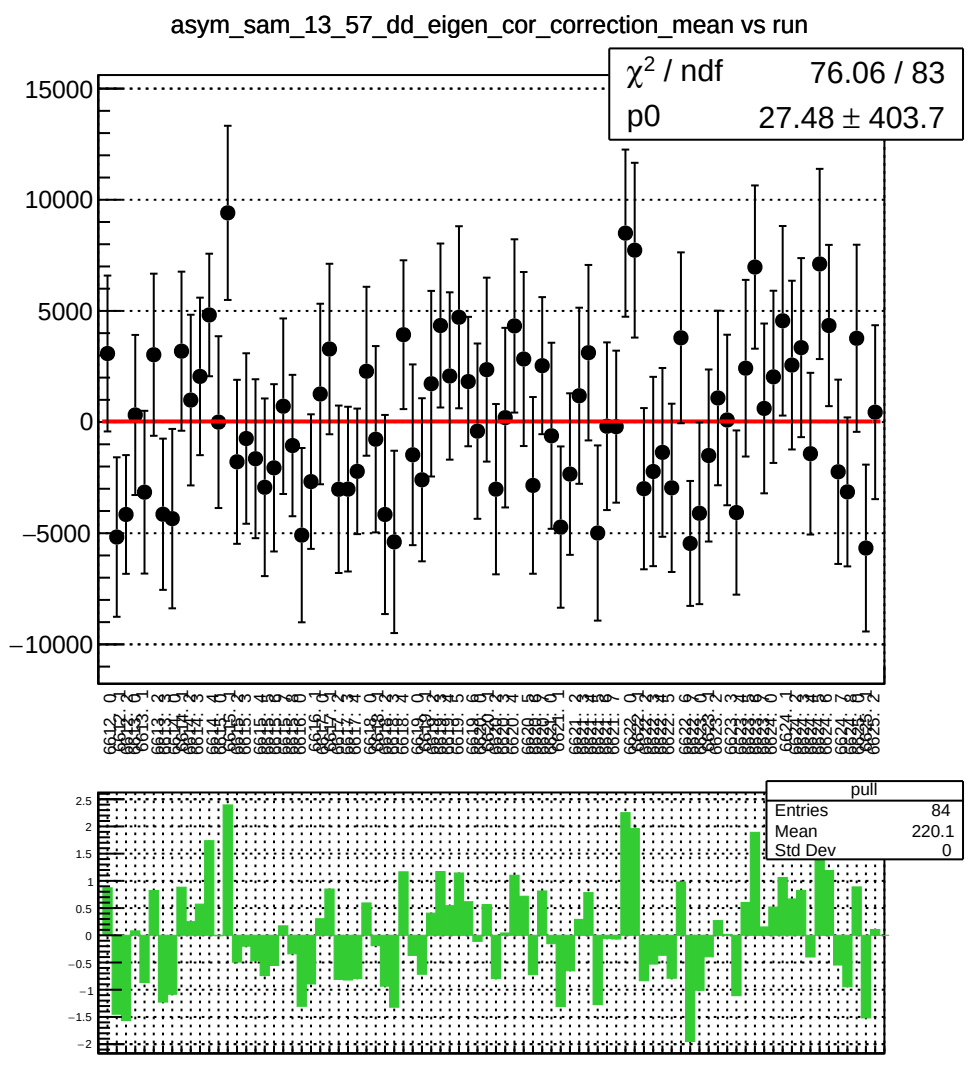

pull1D
Entries 84
Mean 0.01492
Std Dev 0.9514
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

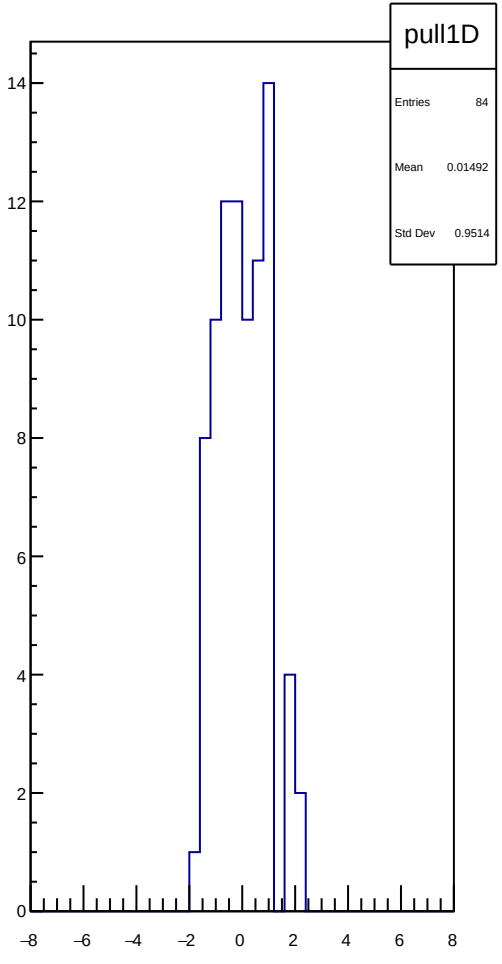

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 4523 / 83
p0 364.2 ± 0.2854
420
400
380
360
340

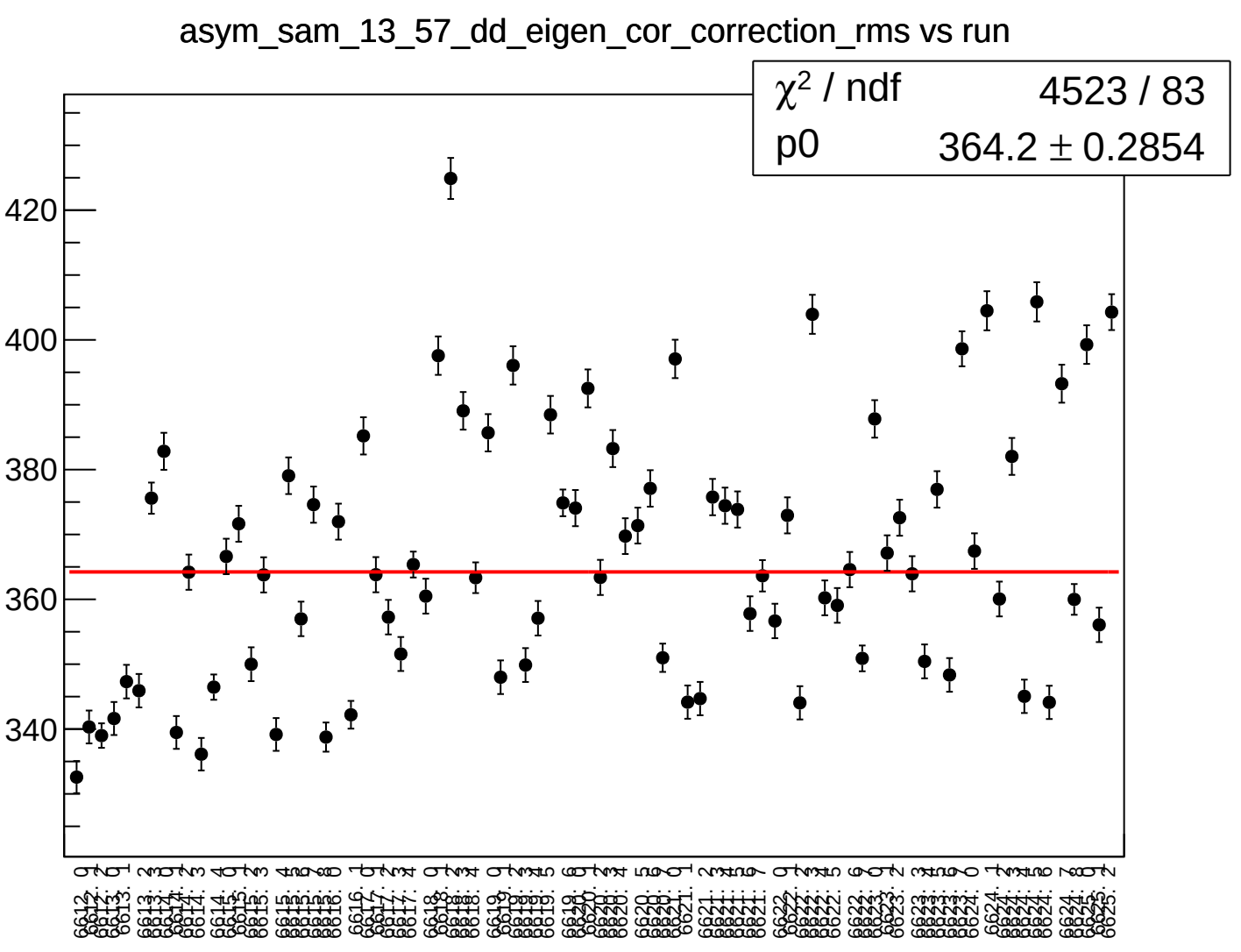

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 94.95 / 83
p0 1.772 ± 63.98
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −278.6
Std Dev 0
2
1
0
−1
−2
−3

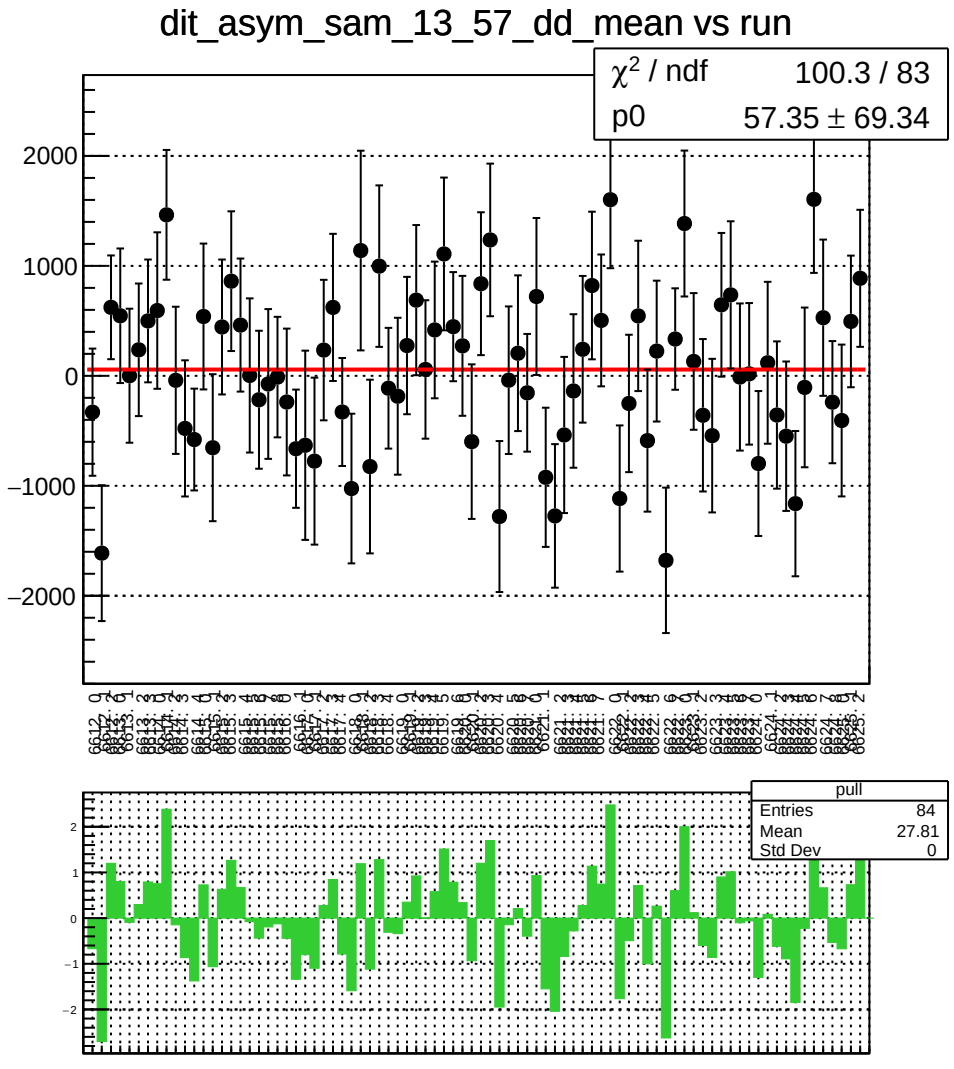

pull1D
Entries 84
Mean −0.003472
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

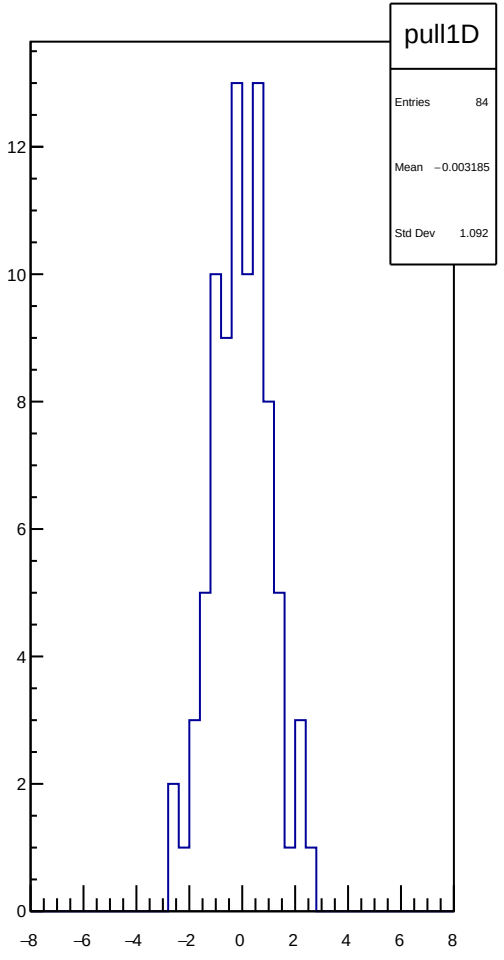

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 5836 / 83
p0 57.7 ± 0.04524
75
70
65
60
55
50

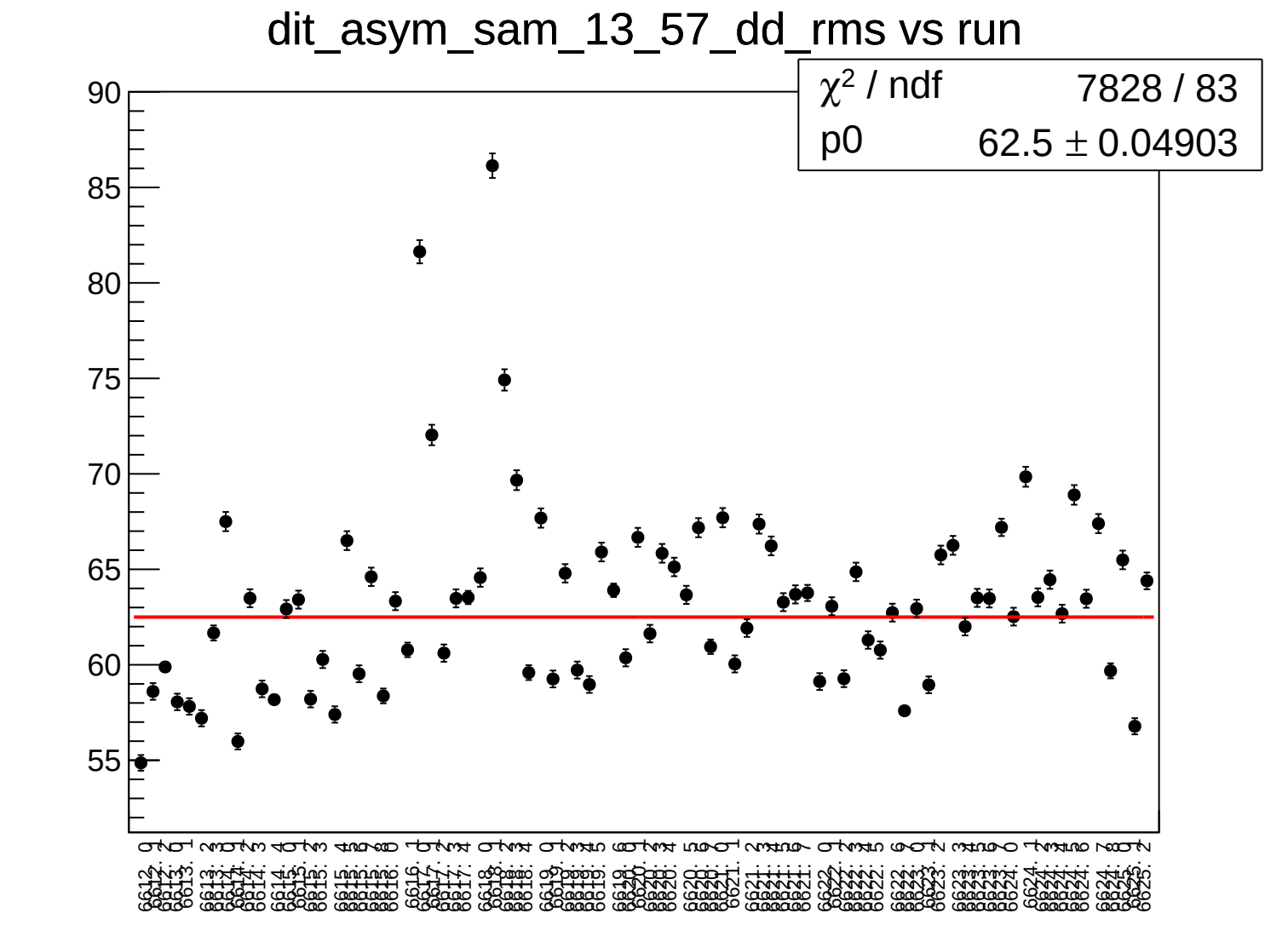

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.06 / 83
p0 27.48 ± 403.7
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 220.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

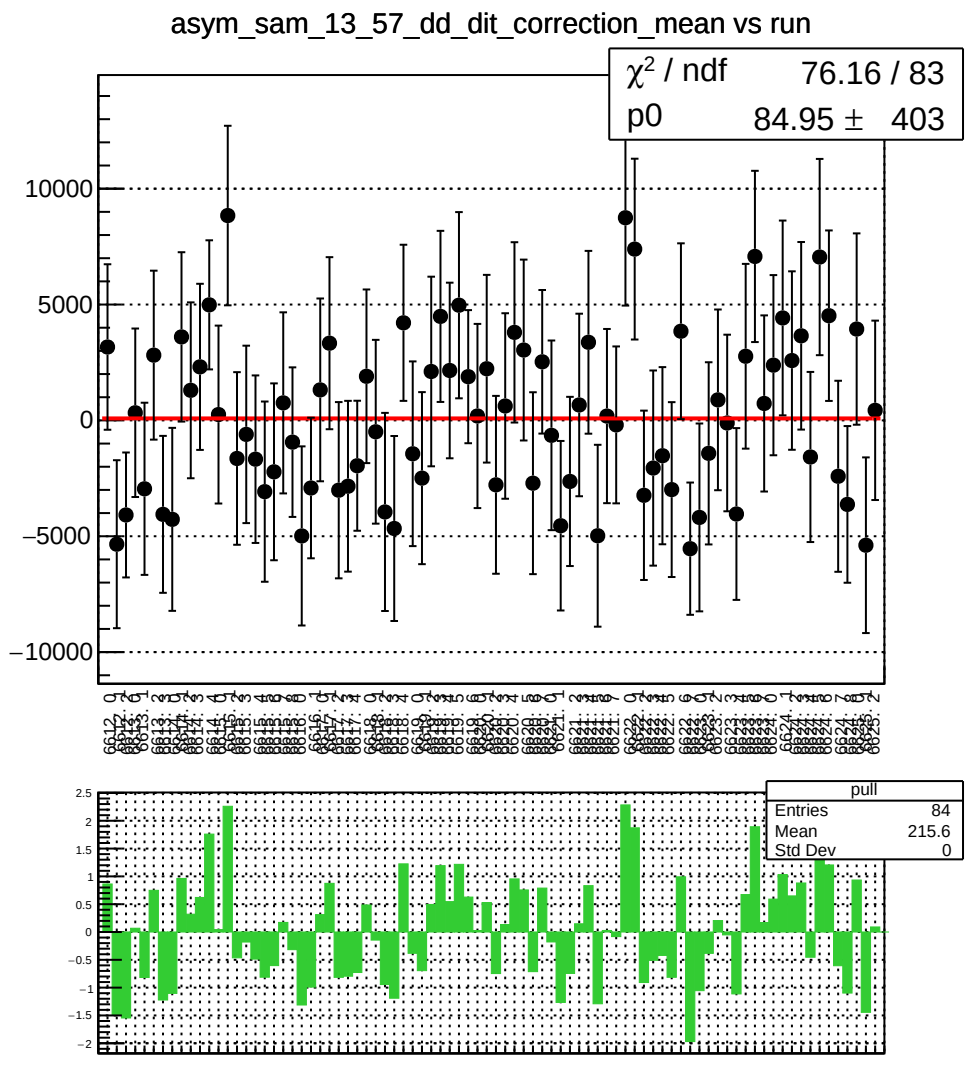

pull1D
Entries 84
Mean 0.01492
Std Dev 0.9514
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

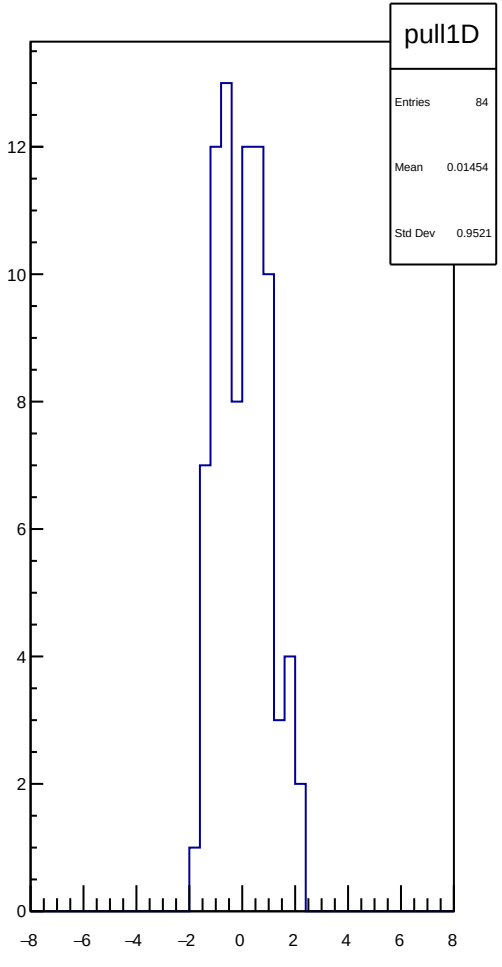

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 4523 / 83
p0 364.2 ± 0.2854
420
400
380
360
340

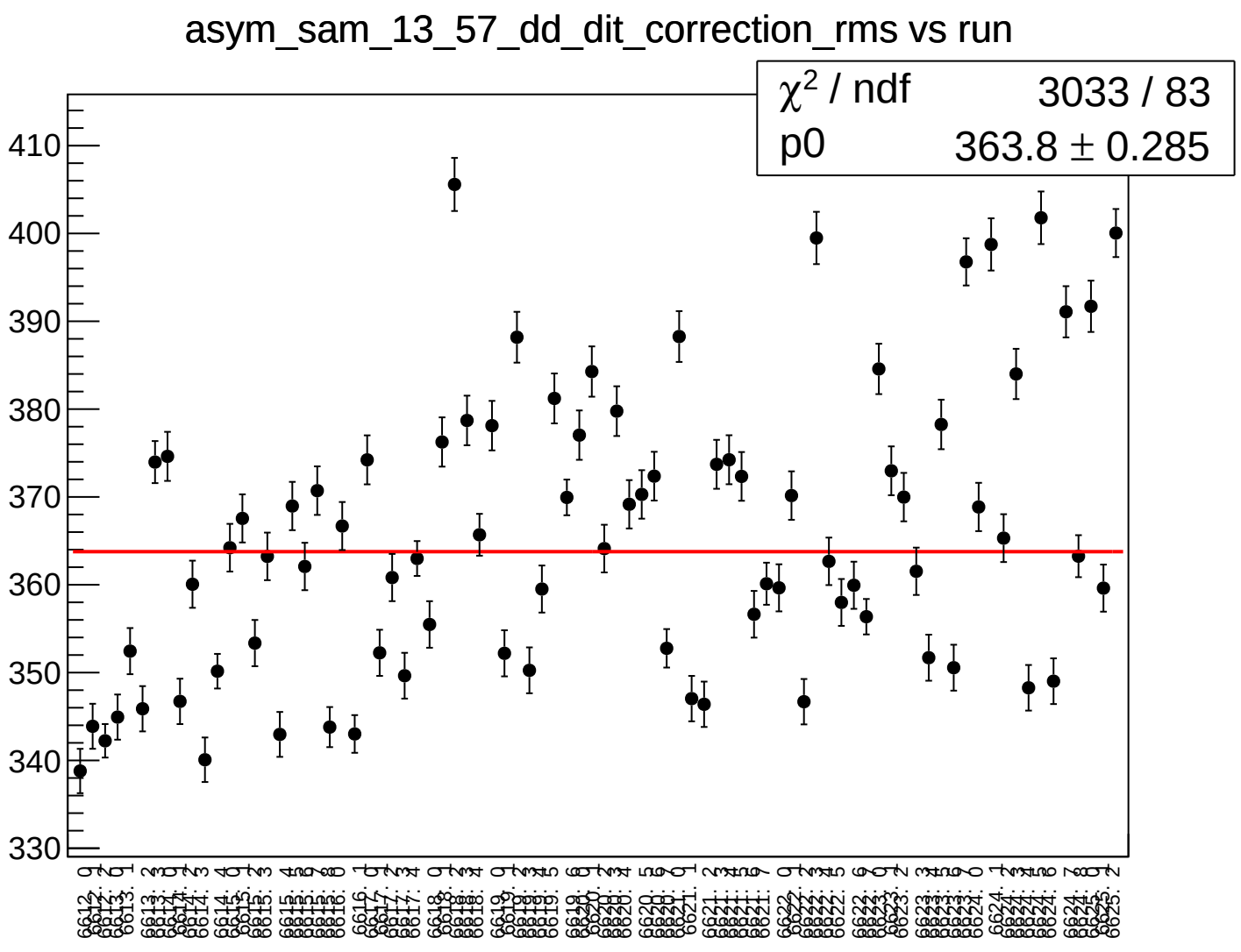

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 100.3 / 83
p0 57.35 ± 69.34
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 27.81
Std Dev 0
2
1
0
−1

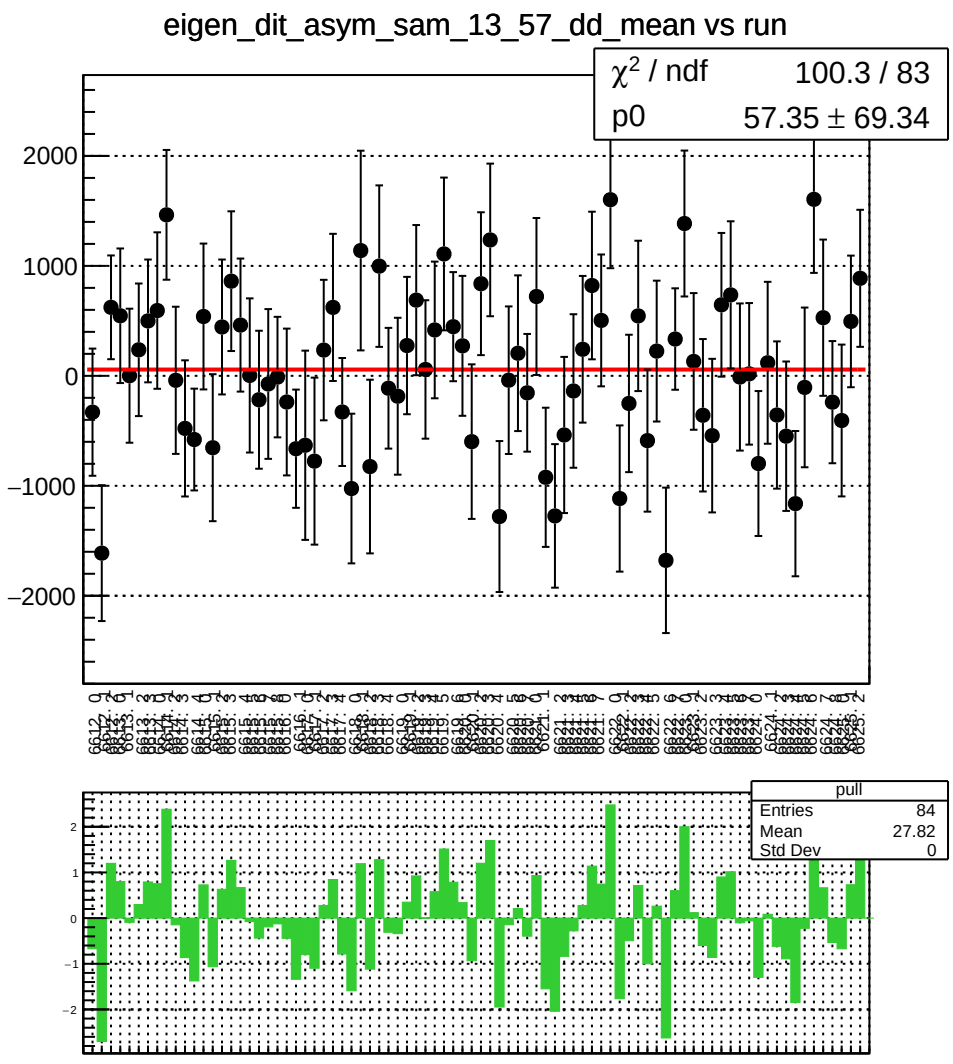

pull1D
Entries 84
Mean −0.003185
Std Dev 1.092
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

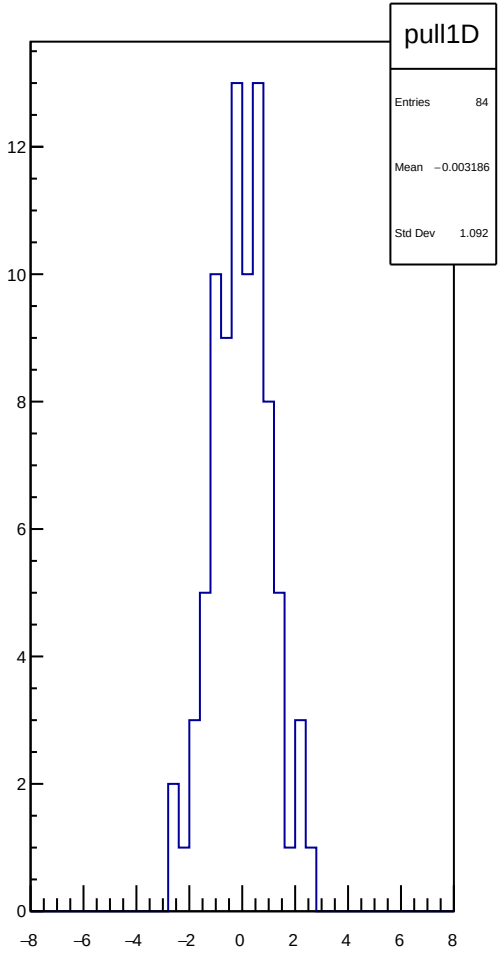

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 7828 / 83
p0 62.5 ± 0.04903
90
85
80
75
70
65
60
55

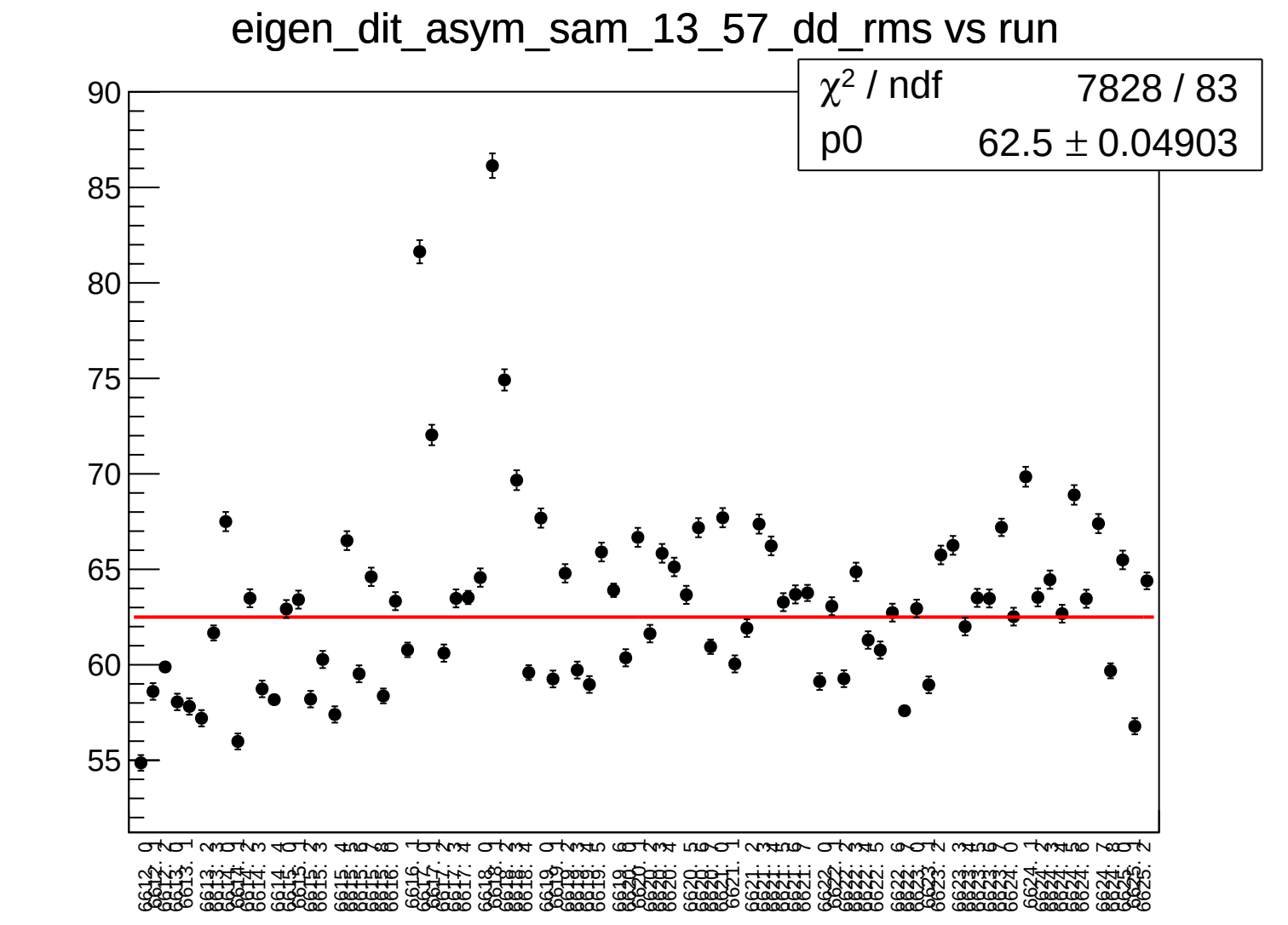

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 76.16 / 83
p0 84.95 ± 403
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 215.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

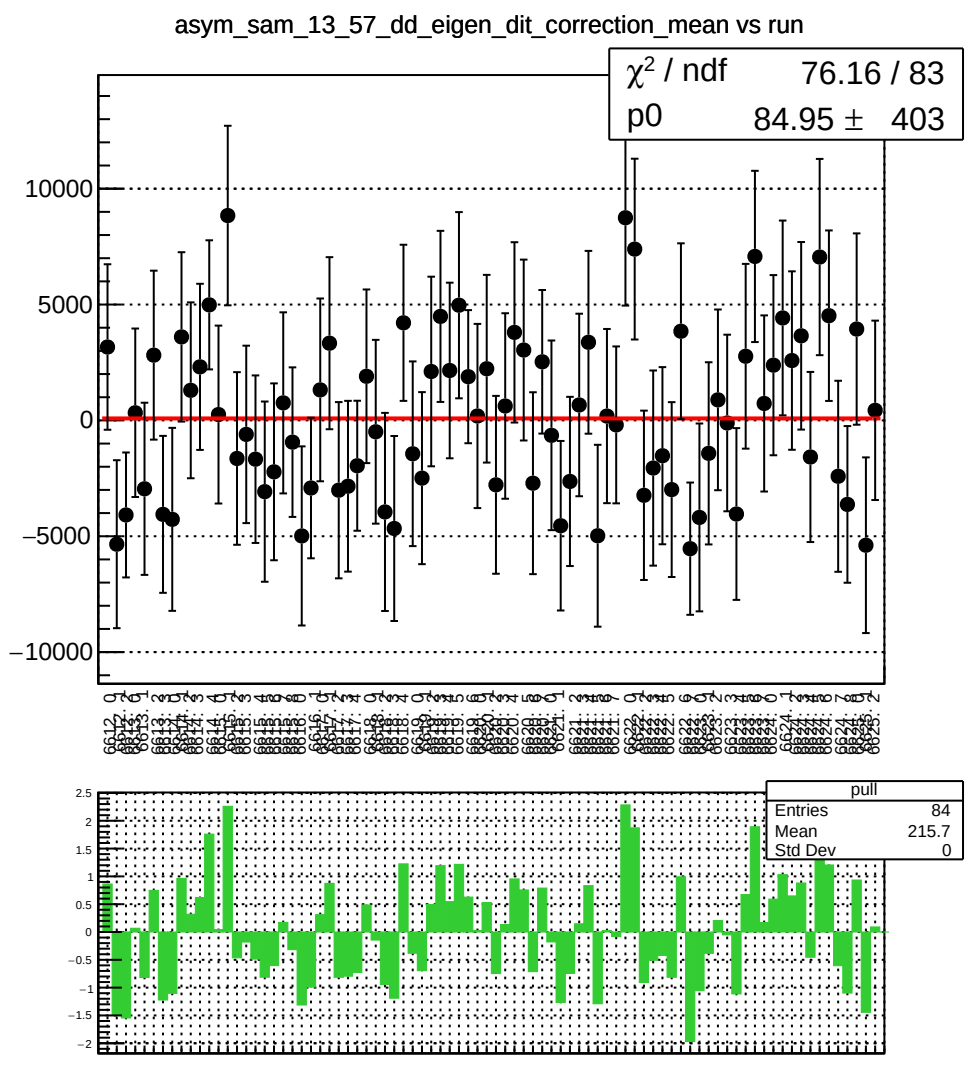

pull1D
Entries 84
Mean 0.01454
Std Dev 0.9521
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

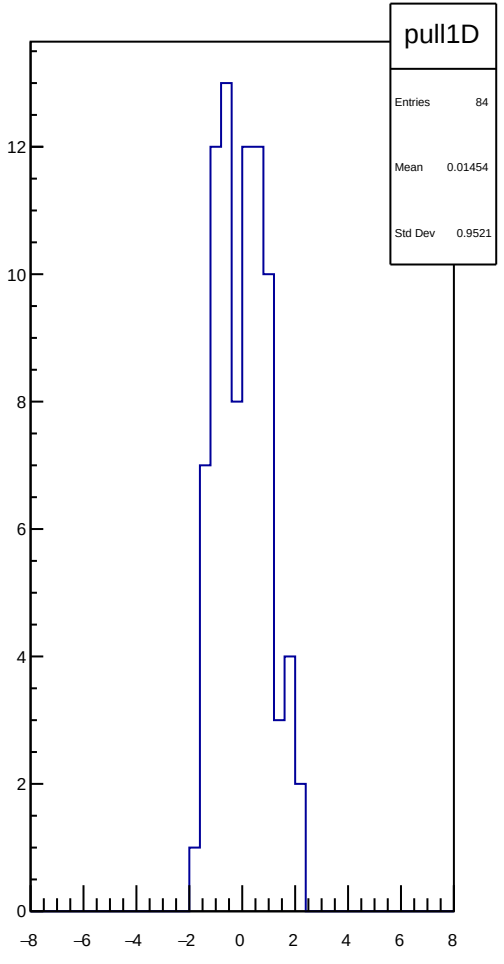

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 3033 / 83
p0 363.8 ± 0.285
410
400
390
380
370
360
350
340
330

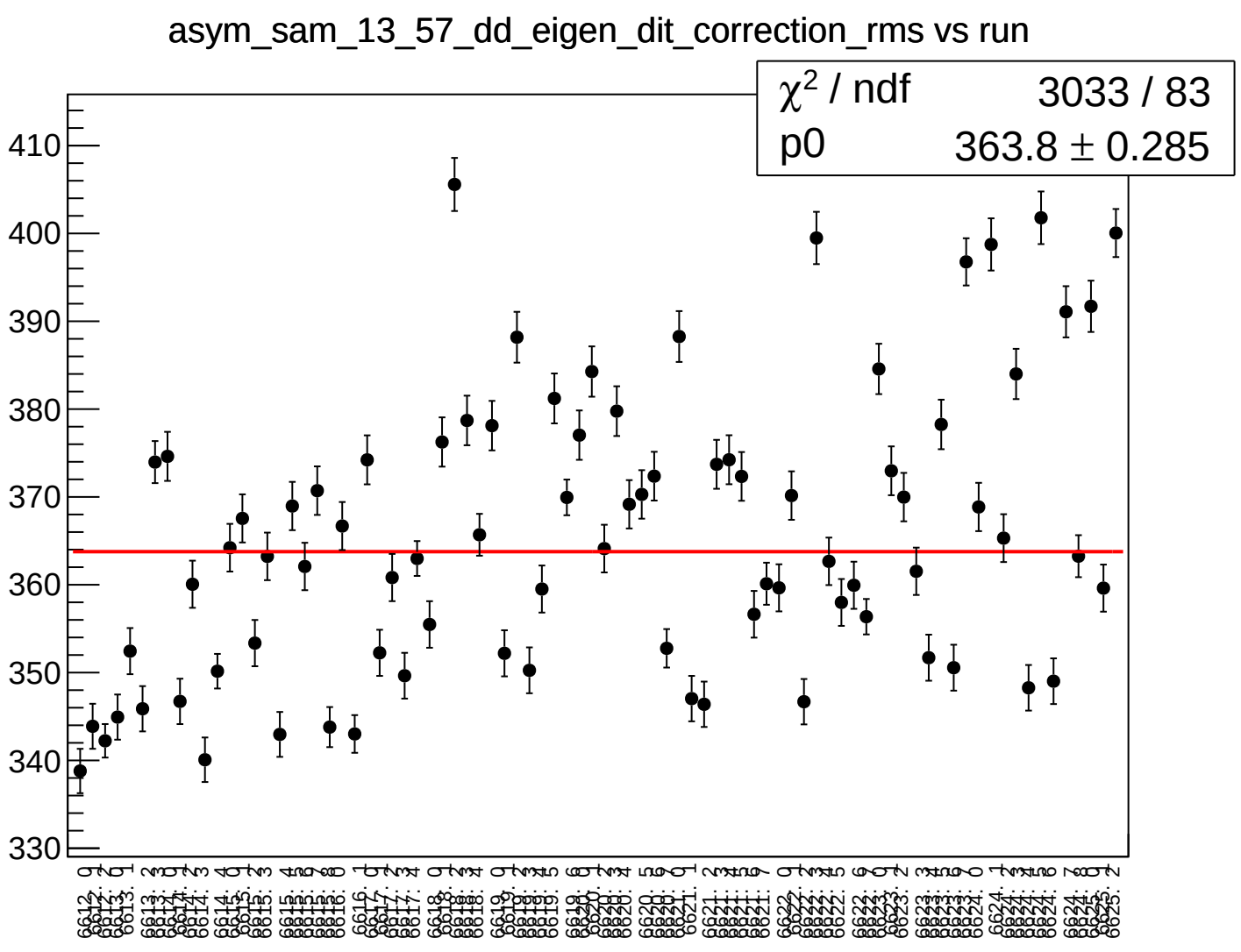

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 100.3 / 83
p0 57.35 ± 69.34
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 27.82
Std Dev 0
2
1
0
−1
−2

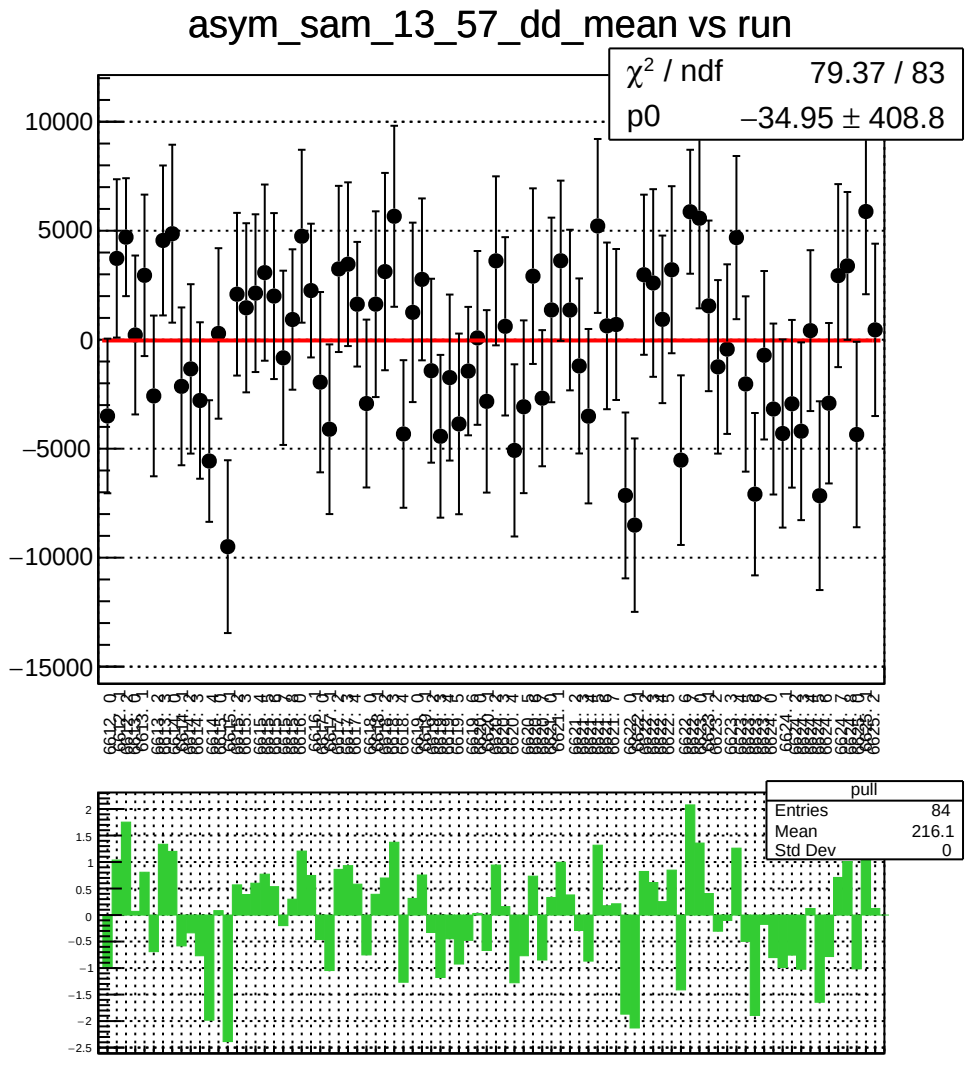

pull1D
Entries 84
Mean −0.003186
Std Dev 1.092
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

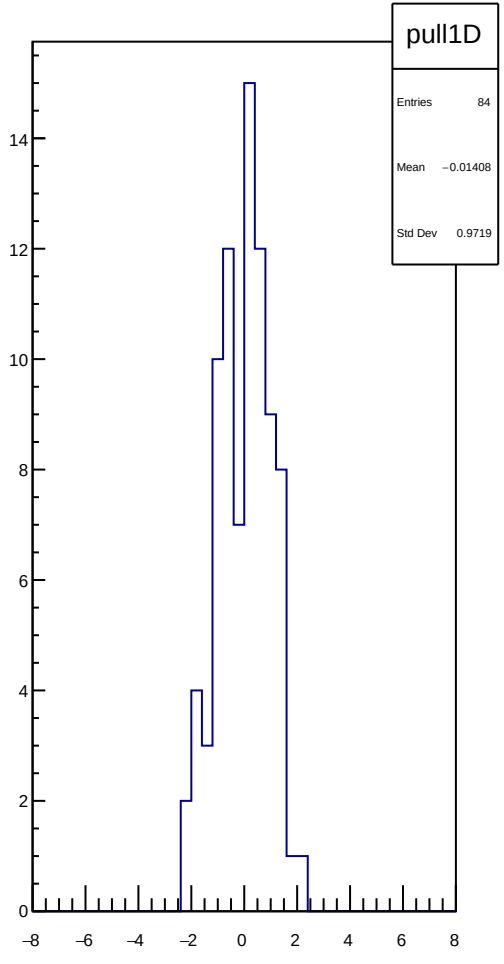

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 7828 / 83
p0 62.5 ± 0.04903
90
85
80
75
70
65
60
55

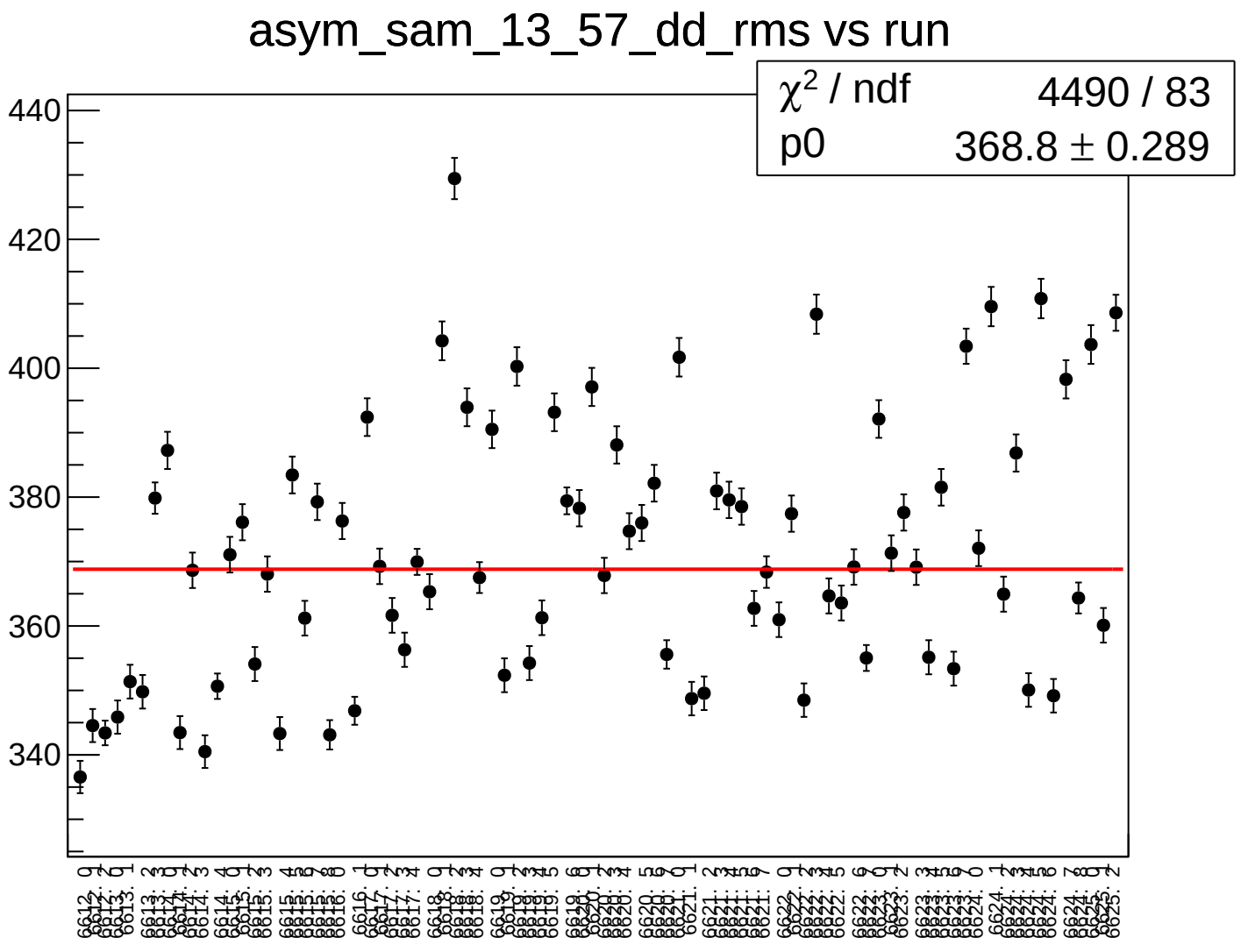

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.16 / 83
p0 84.95 ± 403
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 215.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

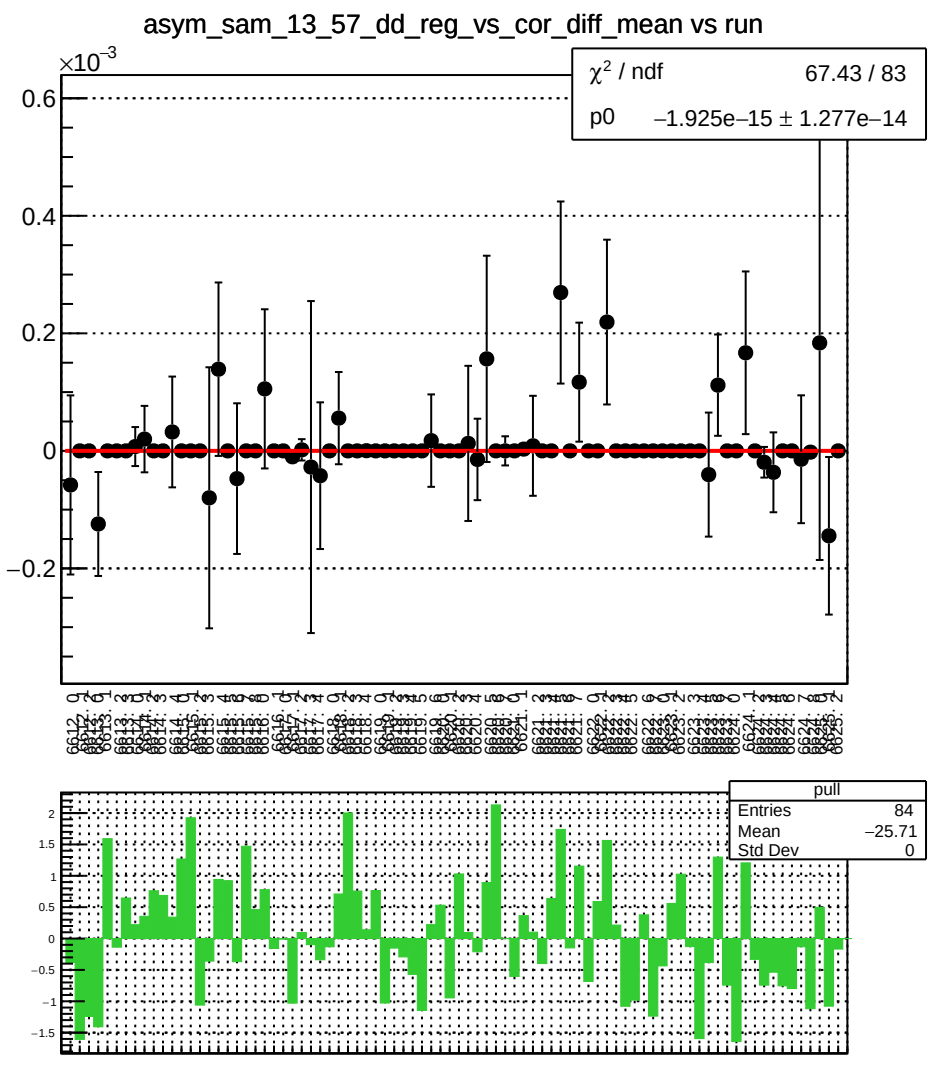

pull1D
Entries 84
Mean 0.01454
Std Dev 0.9521
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

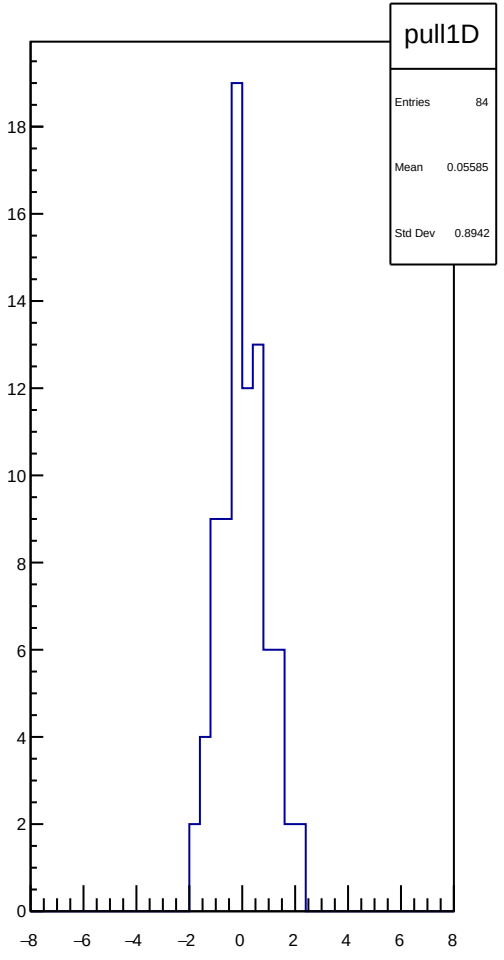

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 3033 / 83
p0 363.8 ± 0.285
410
400
390
380
370
360
350
340
330

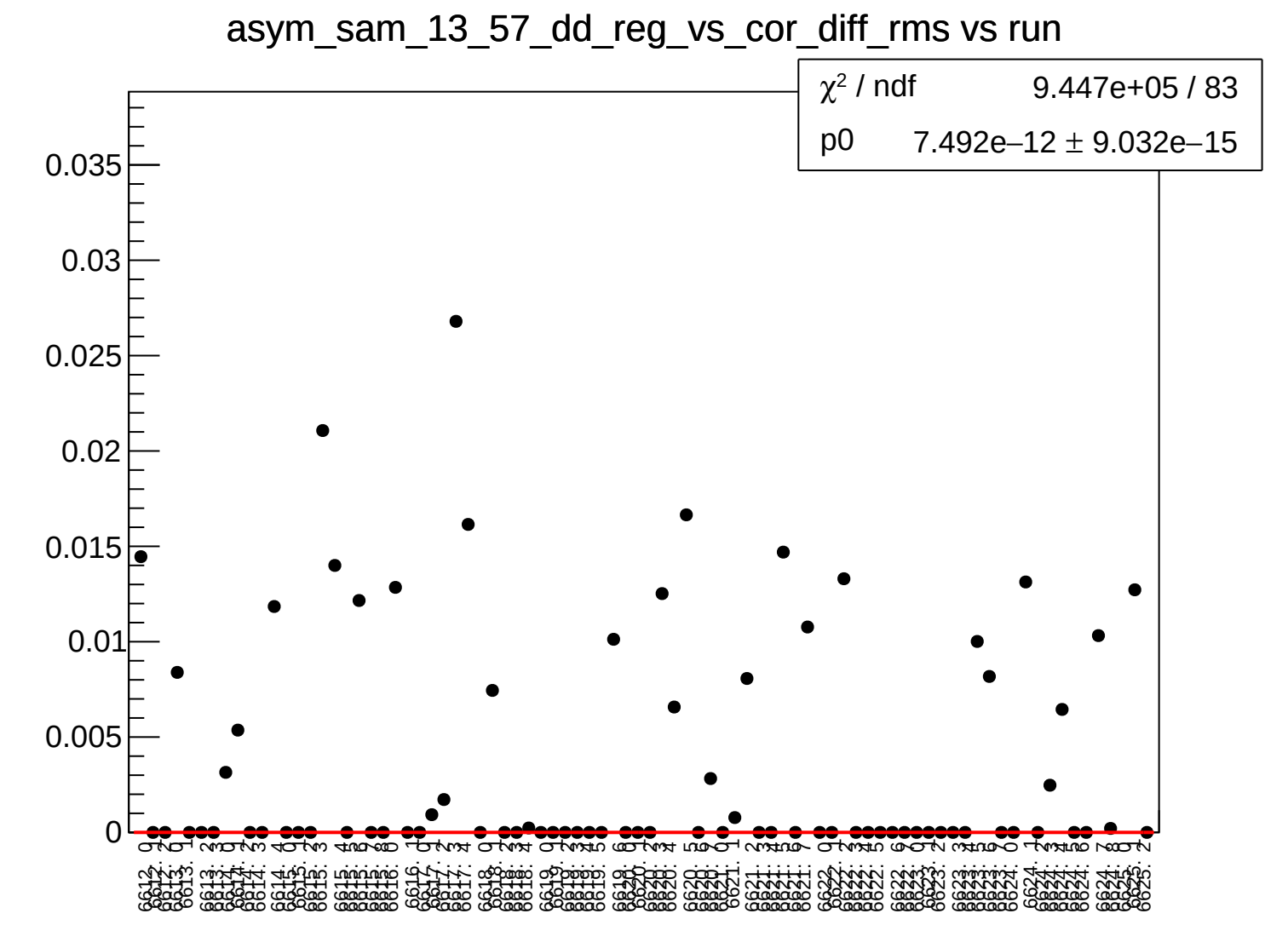

asym_sam_13_57_dd_mean vs run
χ² / ndf 79.37 / 83
p0 −34.95 ± 408.8
pull
Entries 84
Mean 216.1
Std Dev 0

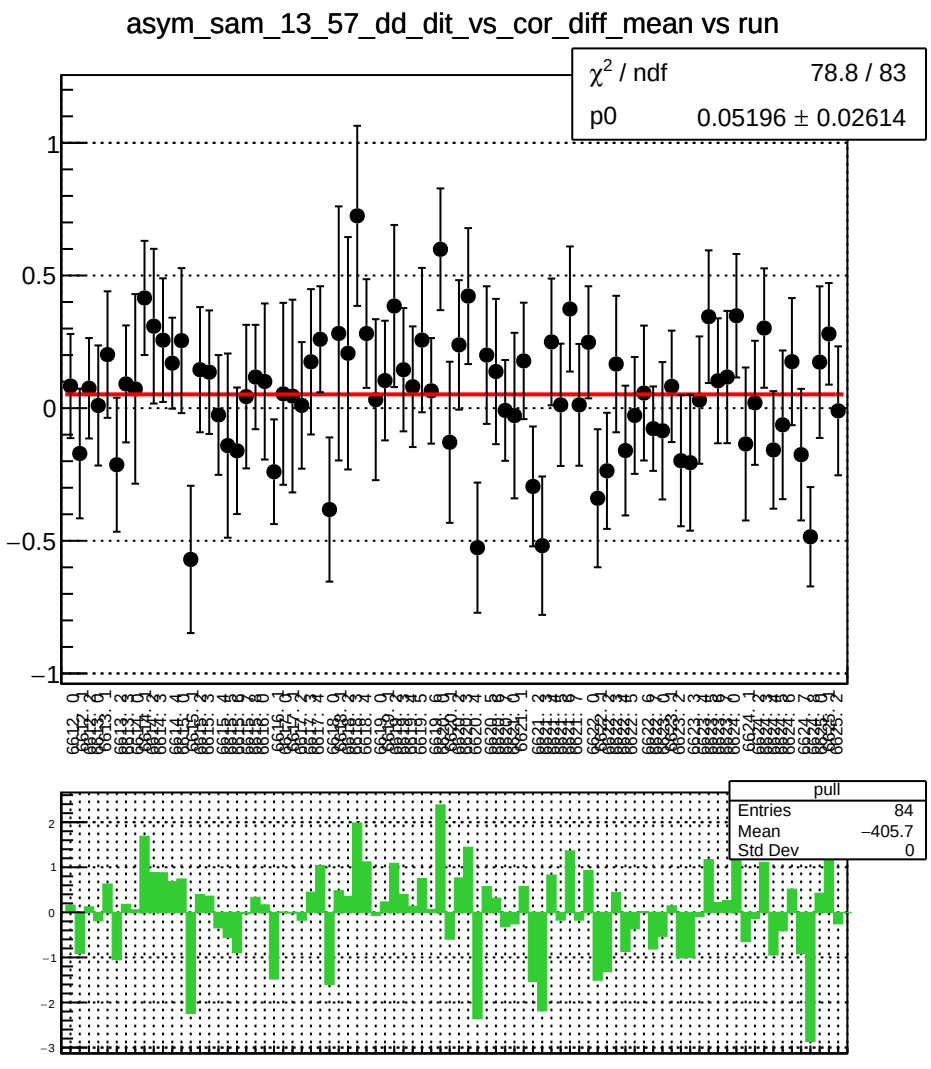

pull1D
Entries 84
Mean −0.01408
Std Dev 0.9719

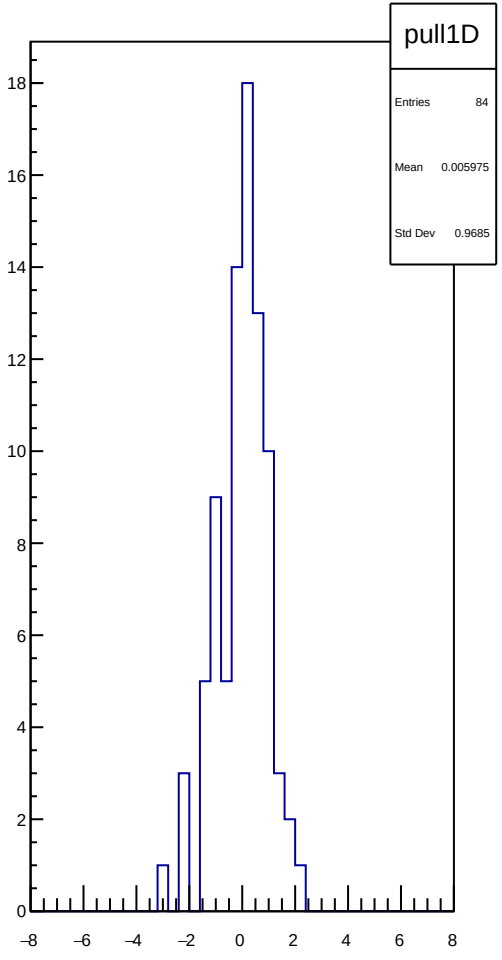

asym_sam_13_57_dd_rms vs run
χ² / ndf 4490 / 83
p0 368.8 ± 0.289
440
420
400
380
360
340

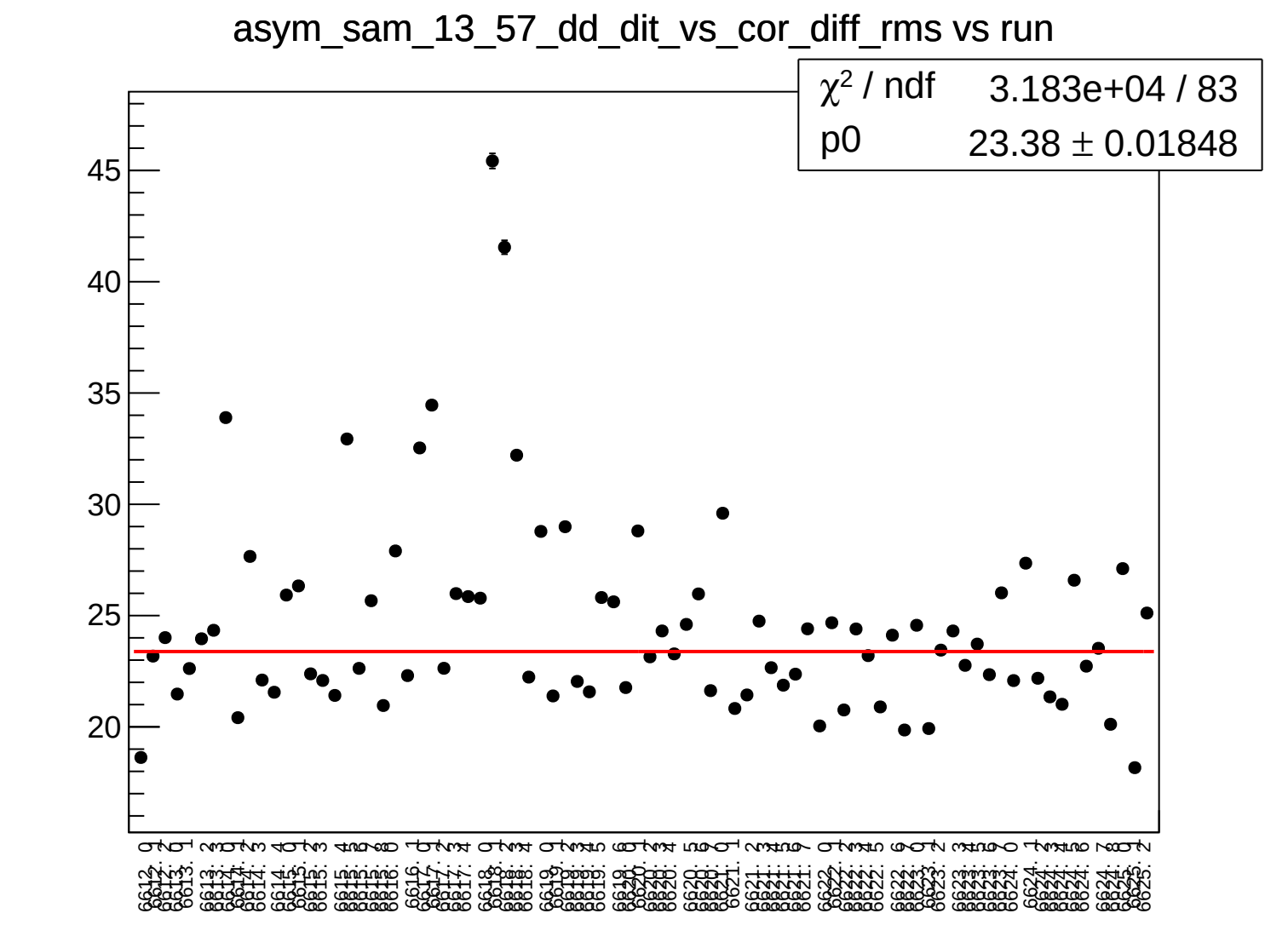

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 67.43 / 83
p0 −1.925e−15 ± 1.277e−14
pull
Entries 84
Mean −25.71
Std Dev 0

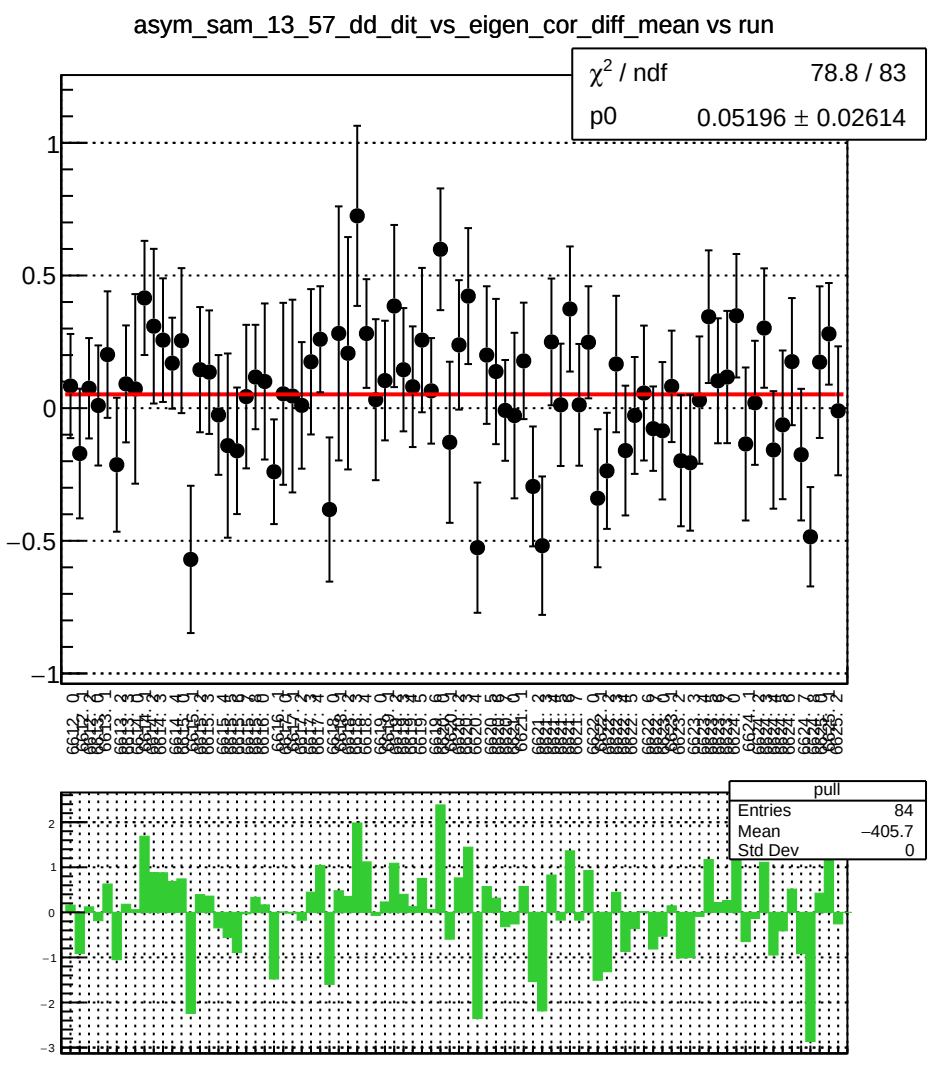

pull1D
Entries 84
Mean 0.05585
Std Dev 0.8942

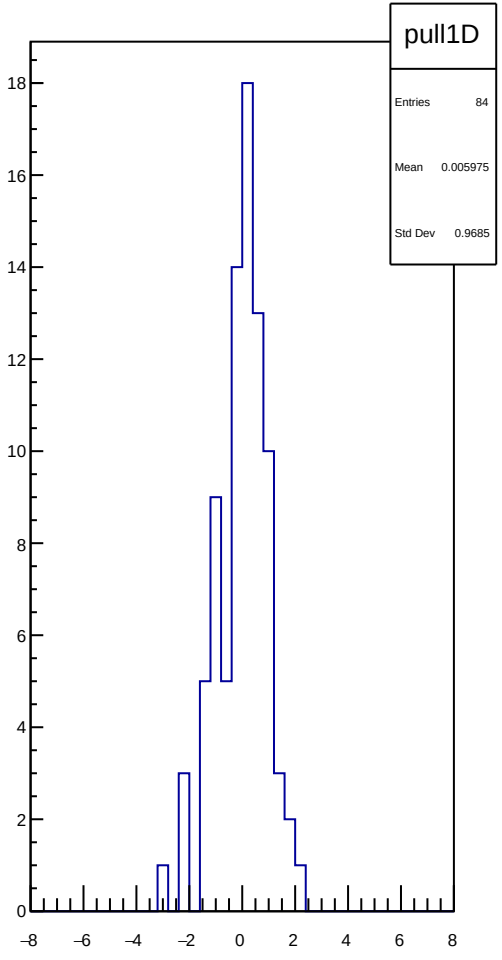

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.447e+05 / 83
p0 7.492e−12 ± 9.032e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

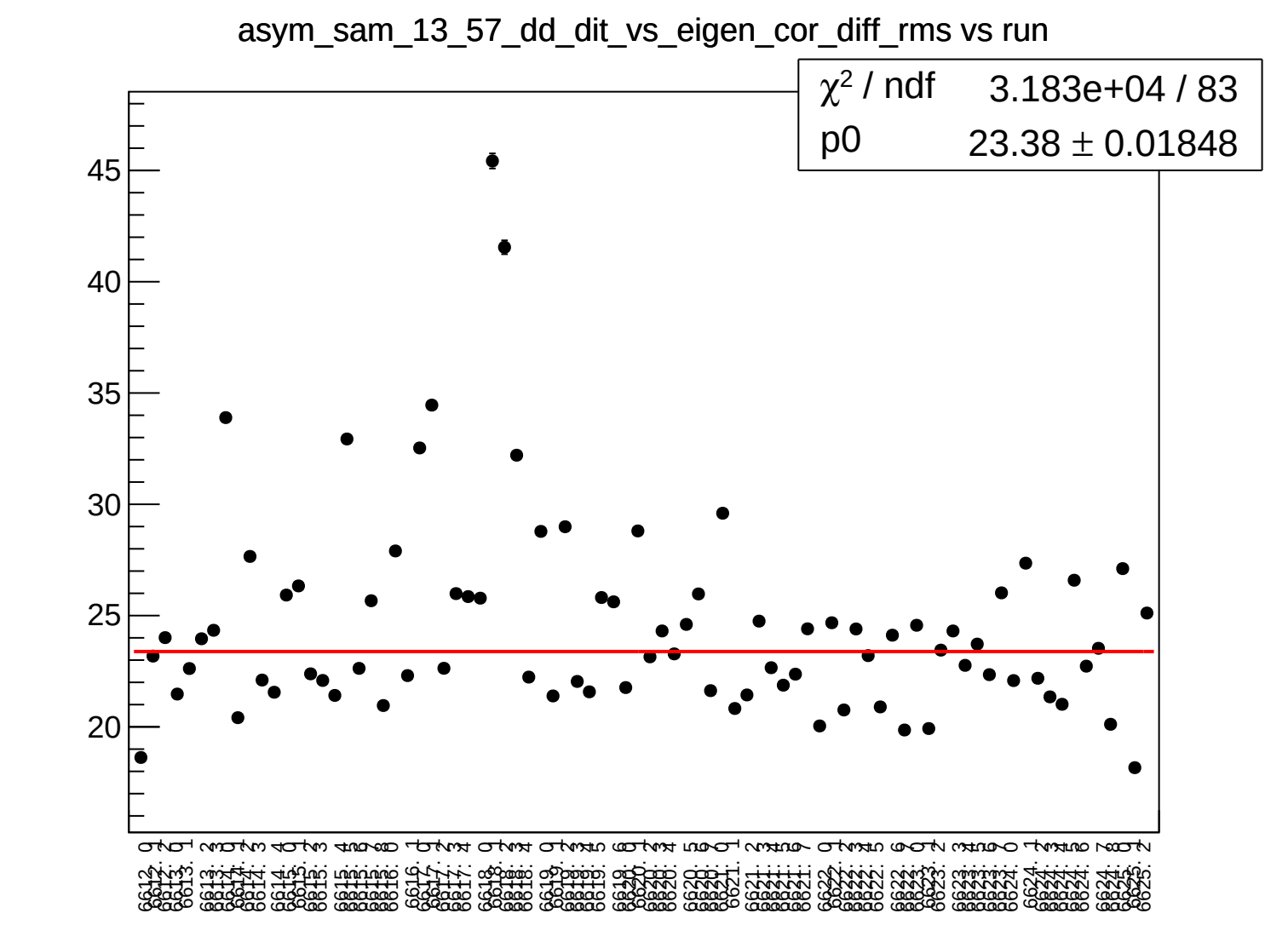

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.8 / 83
p0 0.05196 ± 0.02614
pull
Entries 84
Mean −405.7
Std Dev 0

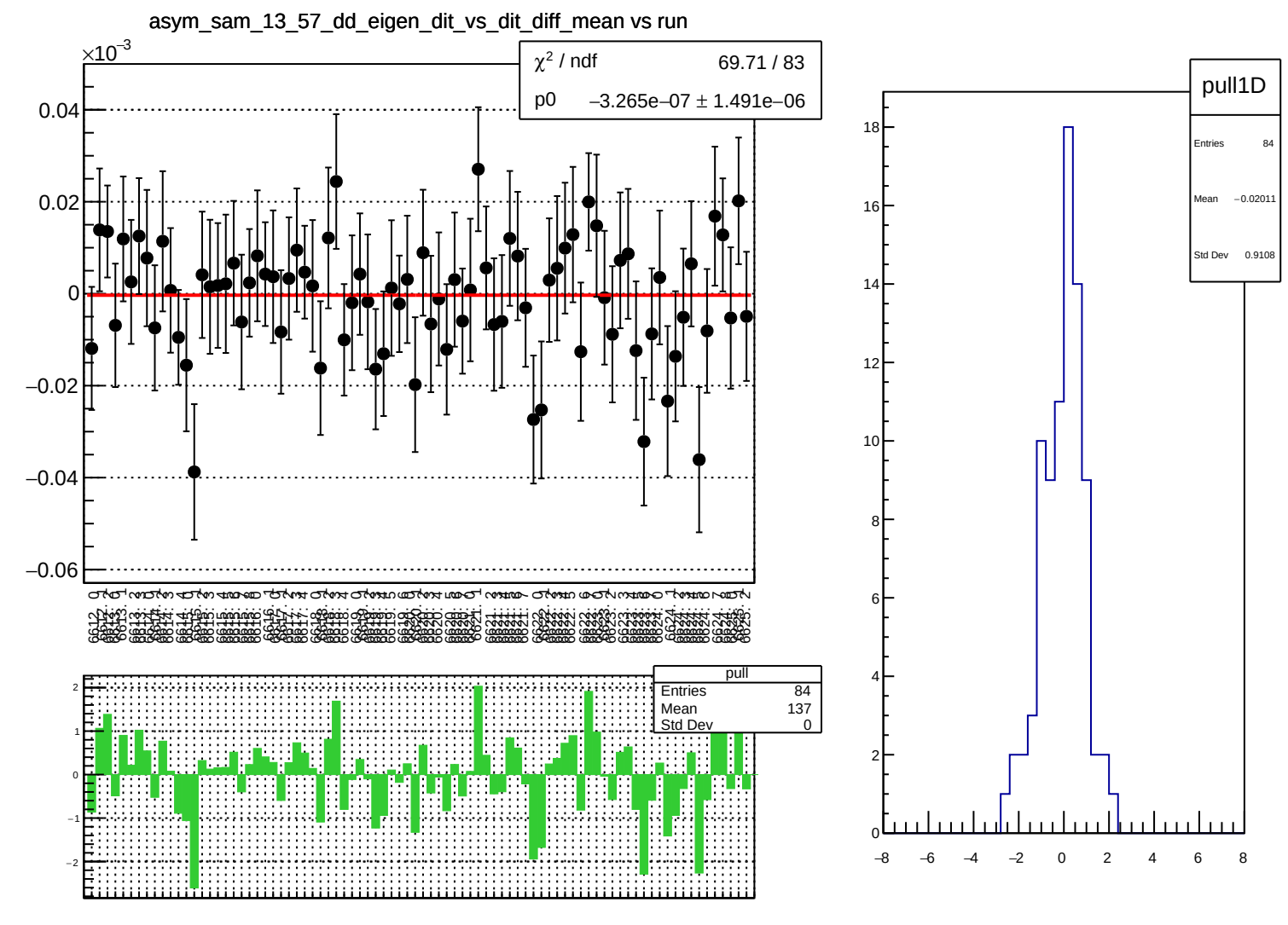

pull1D
Entries 84
Mean 0.005975
Std Dev 0.9685

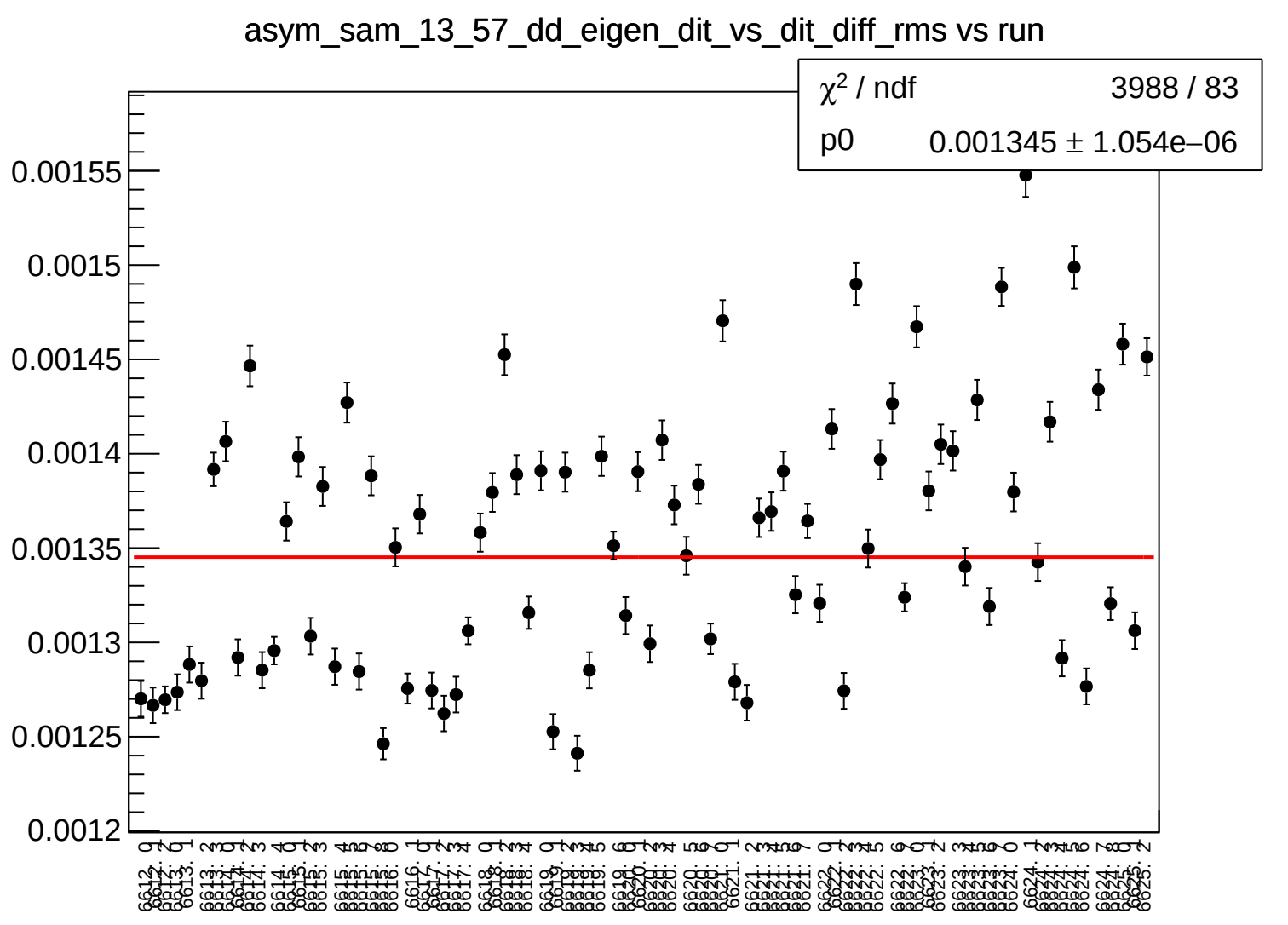

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.183e+04 / 83
p0 23.38 ± 0.01848
45
40
35
30
25
20

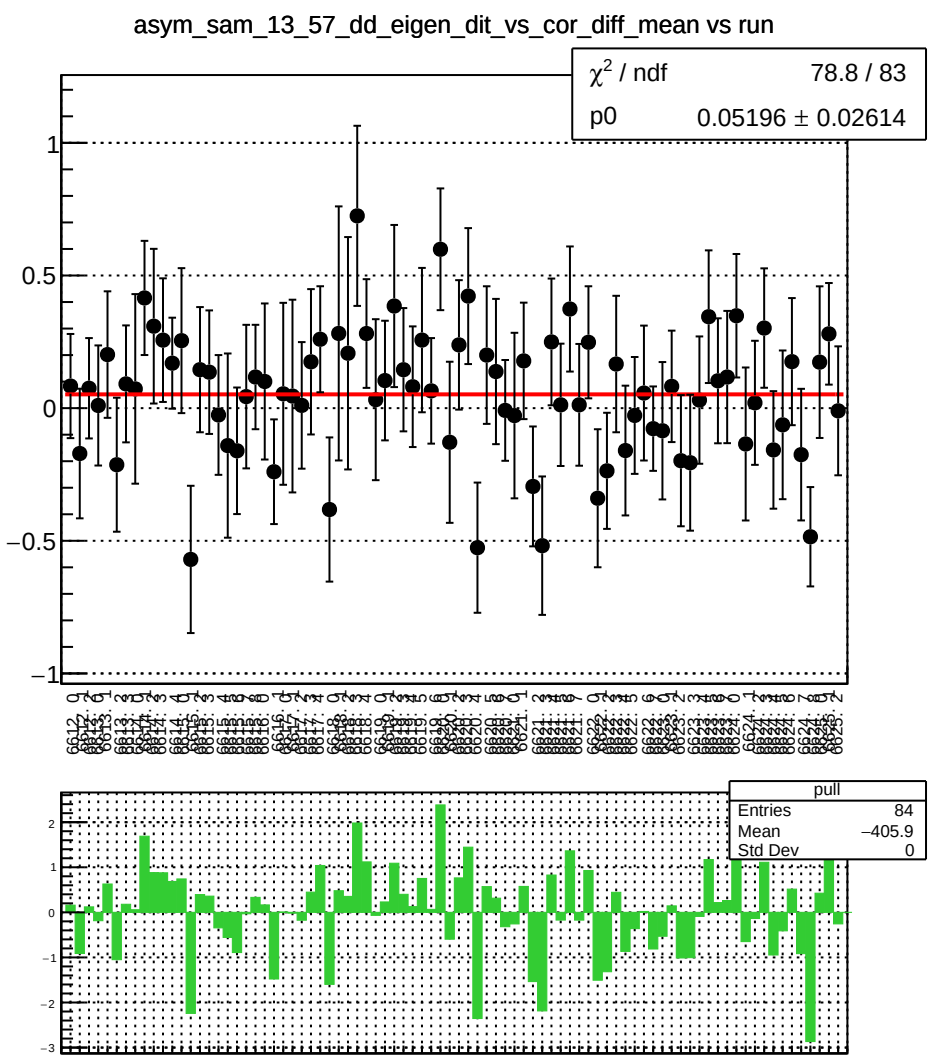

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.8 / 83
p0 0.05196 ± 0.02614
pull
Entries 84
Mean −405.7
Std Dev 0

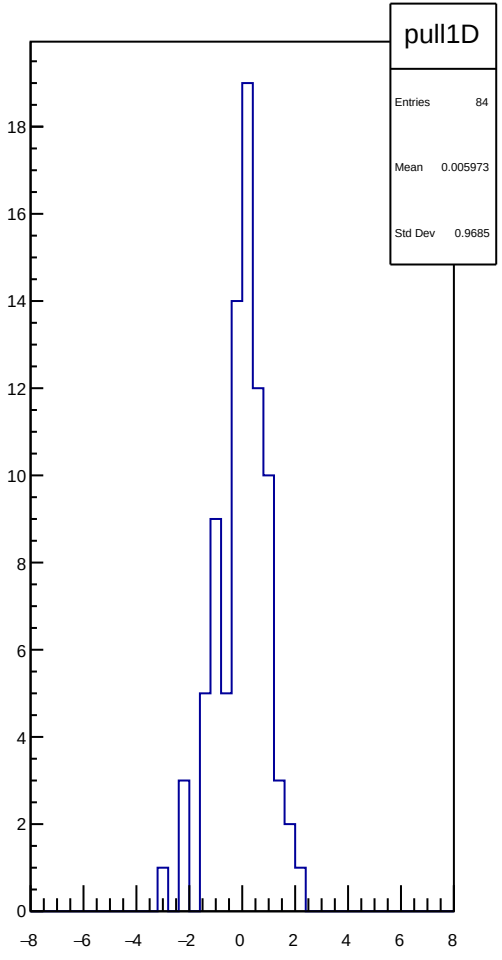

pull1D
Entries 84
Mean 0.005975
Std Dev 0.9685

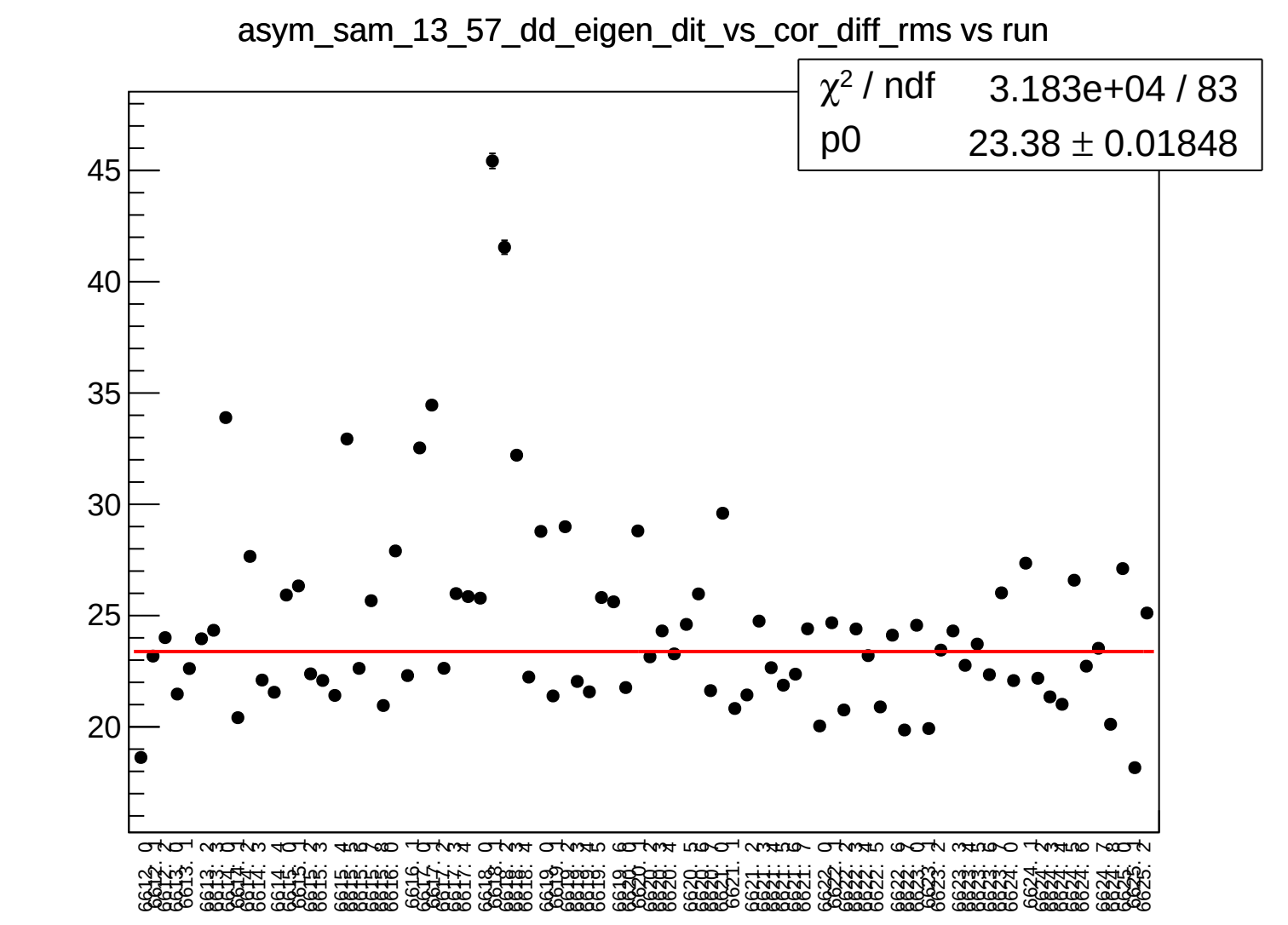

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.183e+04 / 83
p0 23.38 ± 0.01848
45
40
35
30
25
20

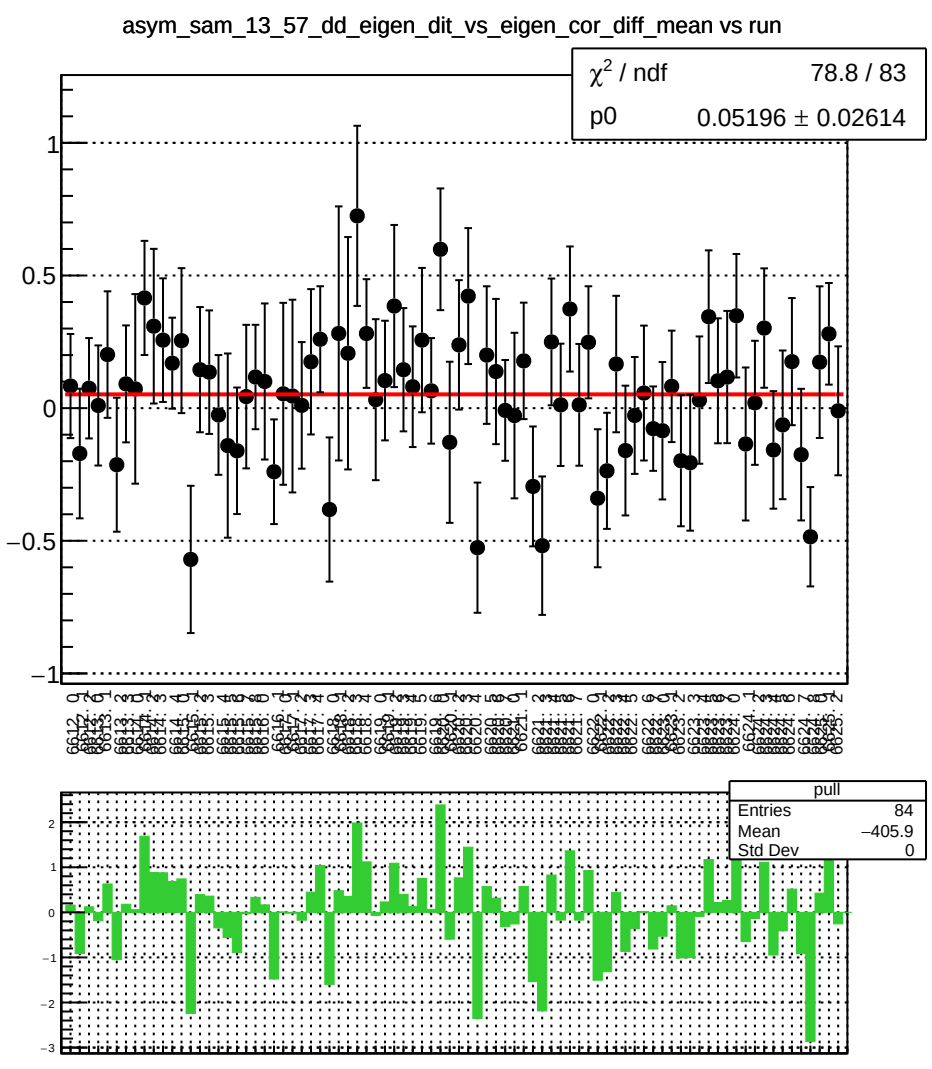

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.71 / 83
p0 −3.265e−07 ± 1.491e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 84
Mean 137
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.02011
Std Dev 0.9108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

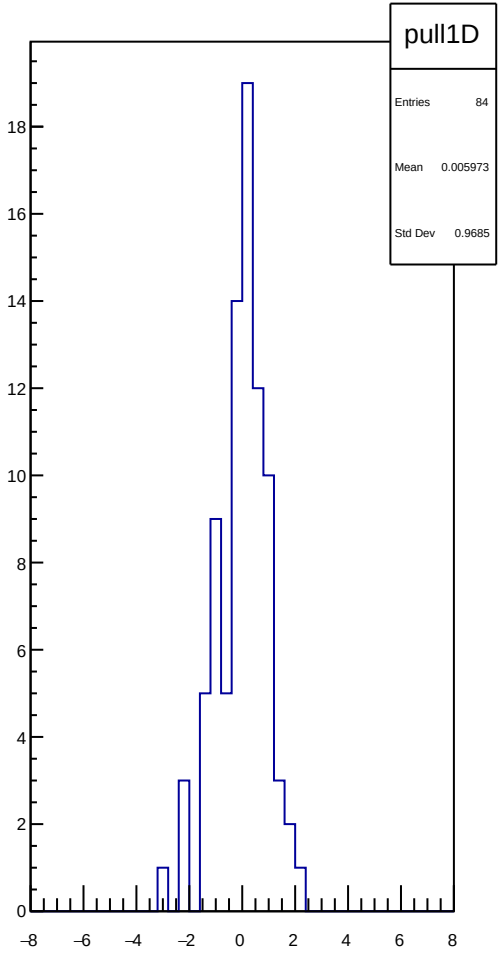

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3988 / 83
p0 0.001345 ± 1.054e−06
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012

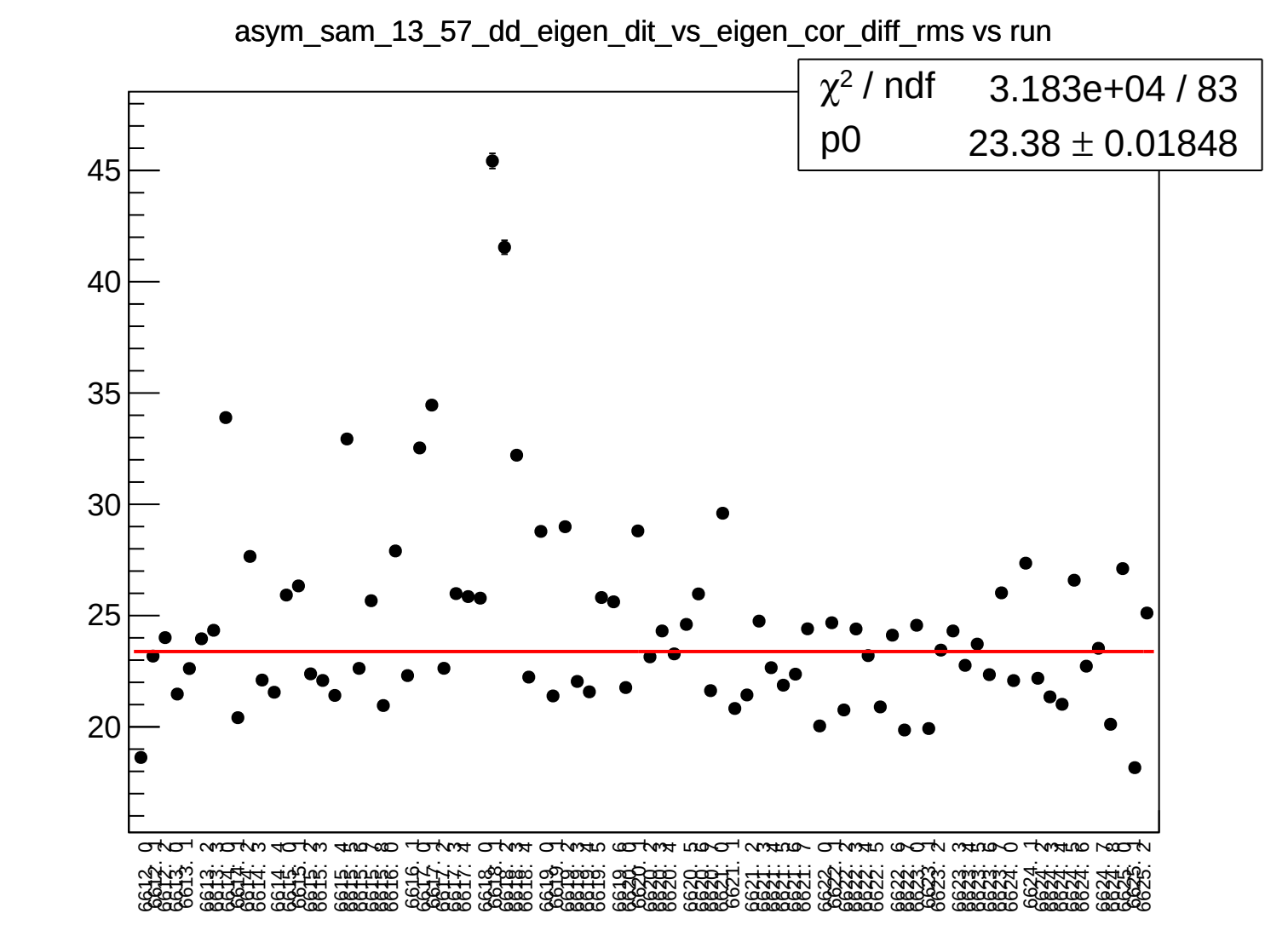

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.8 / 83
p0 0.05196 ± 0.02614
pull
Entries 84
Mean −405.9
Std Dev 0

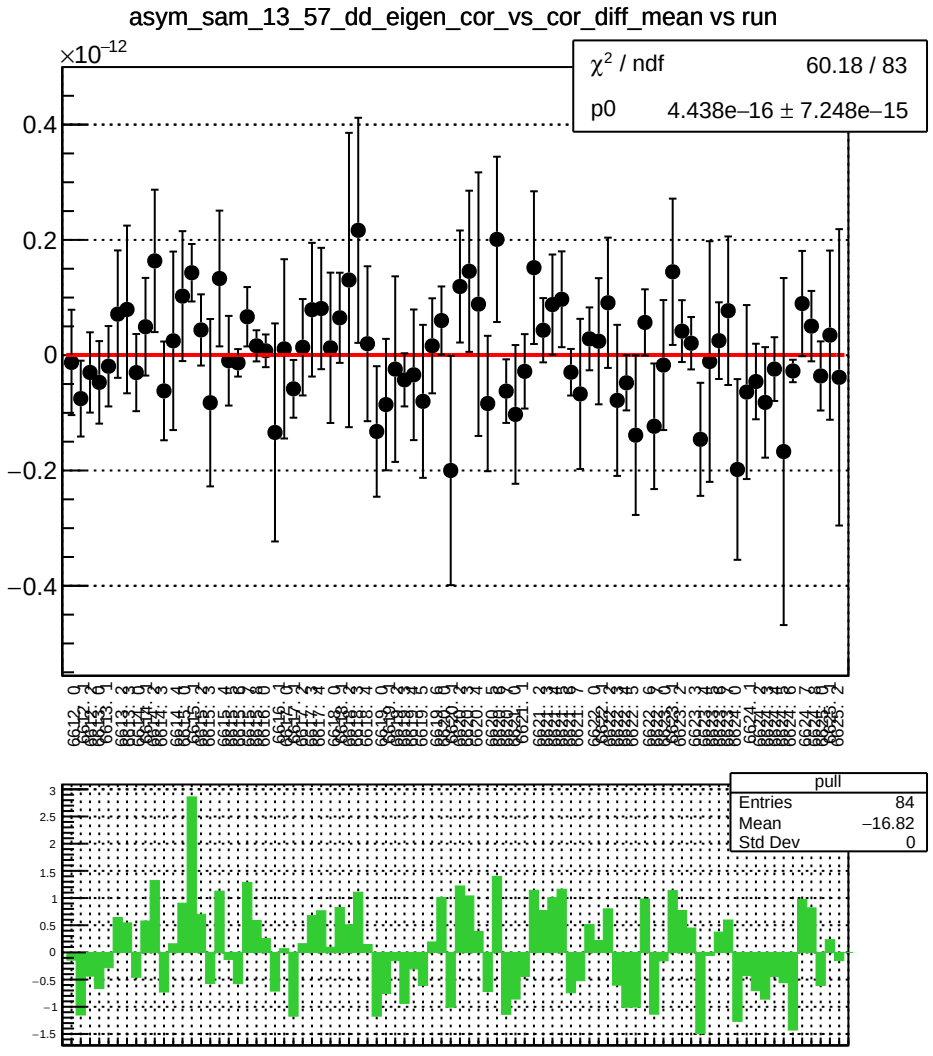

pull1D
Entries 84
Mean 0.005973
Std Dev 0.9685

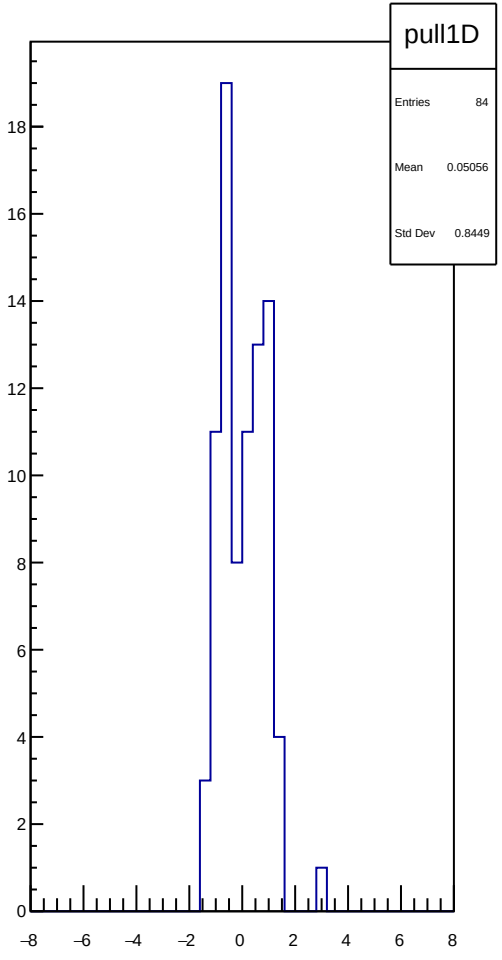

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.183e+04 / 83
p0 23.38 ± 0.01848
45
40
35
30
25
20

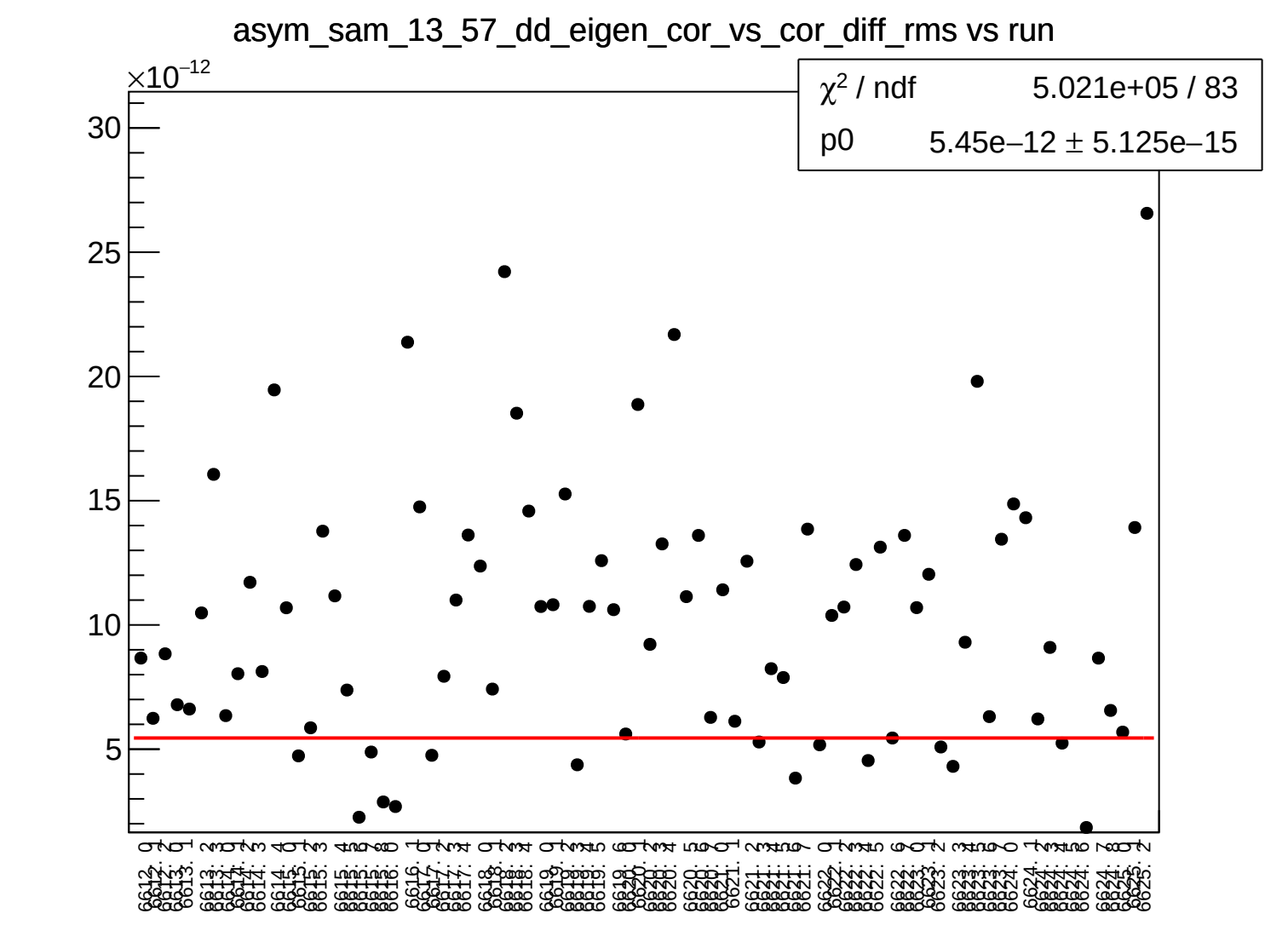

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.8 / 83
p0 0.05196 ± 0.02614
pull
Entries 84
Mean −405.9
Std Dev 0

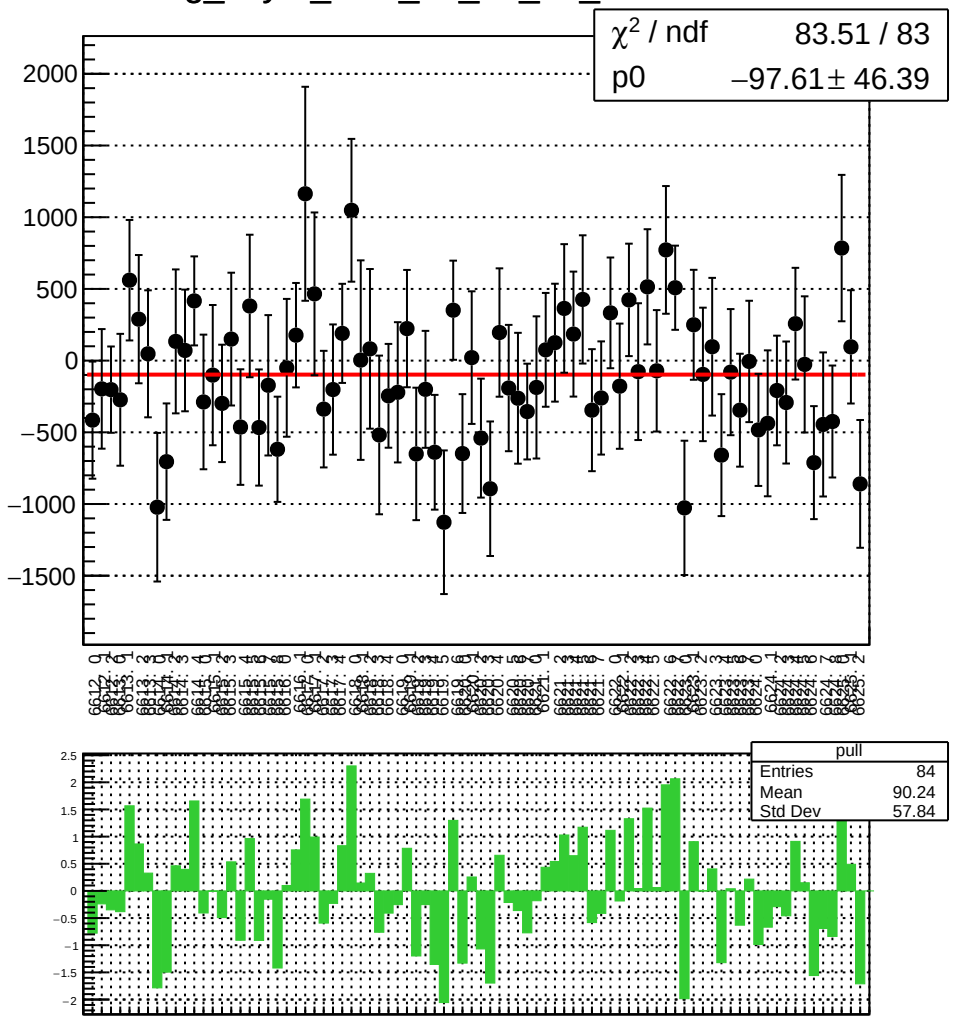

pull1D
Entries 84
Mean 0.005973
Std Dev 0.9685

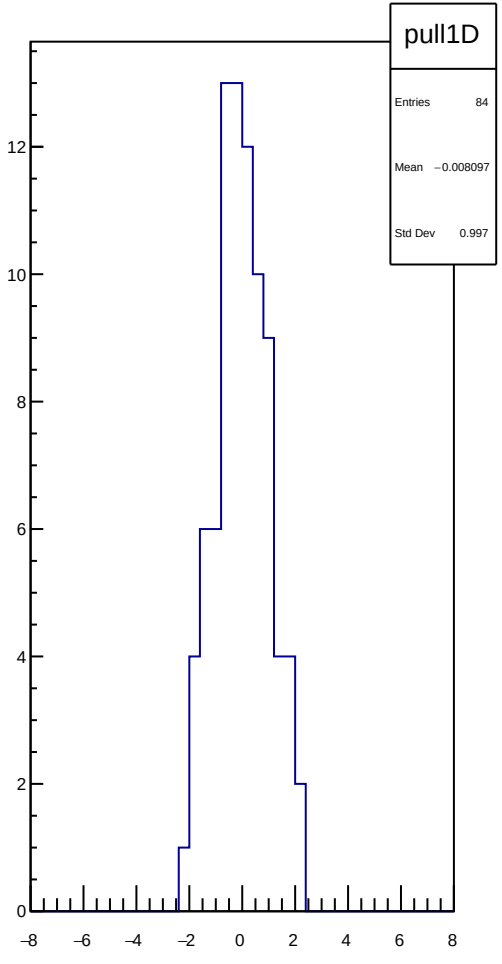

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.183e+04 / 83
p0 23.38 ± 0.01848
45
40
35
30
25
20

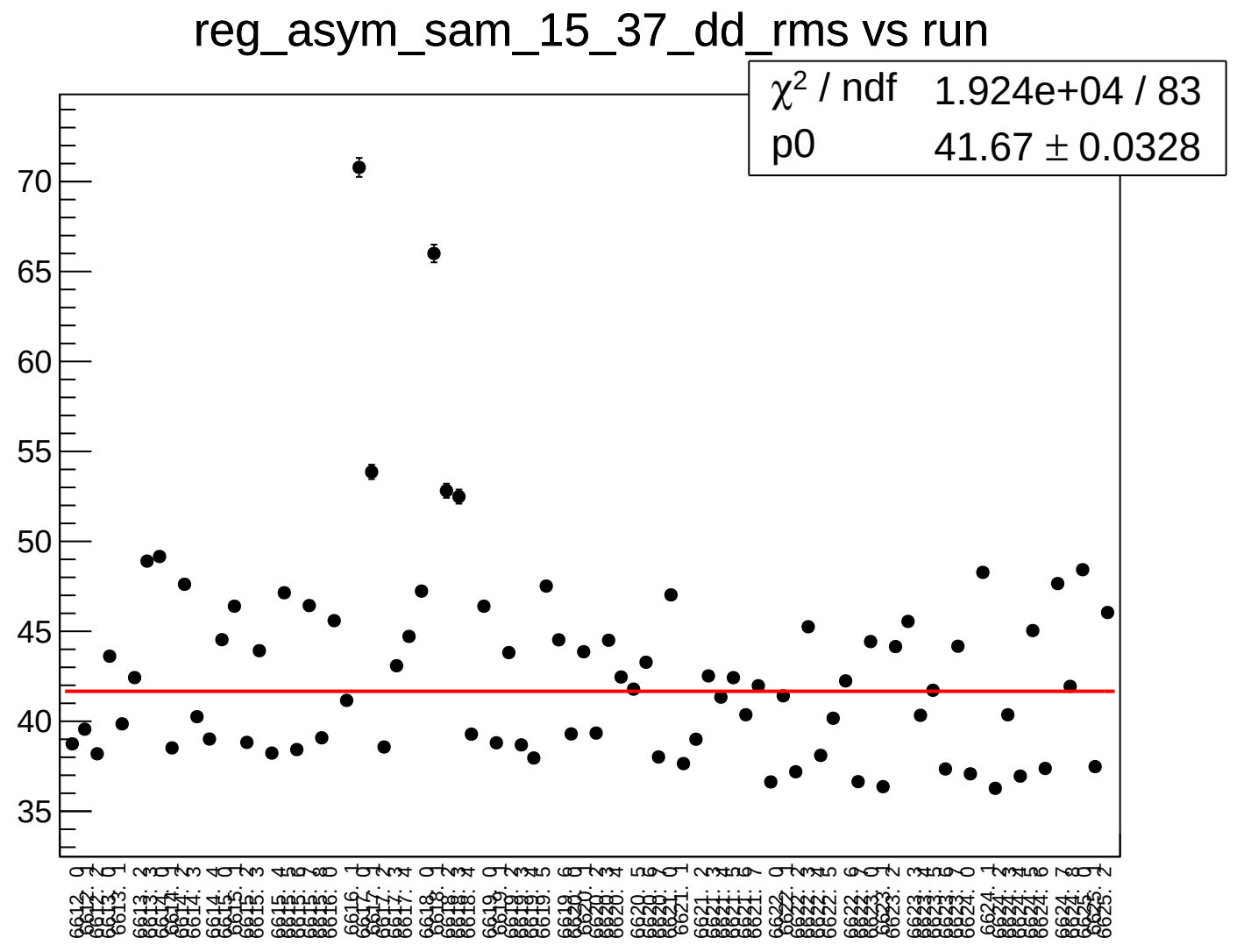

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 60.18 / 83
p0 4.438e−16 ± 7.248e−15
pull
Entries 84
Mean −16.82
Std Dev 0

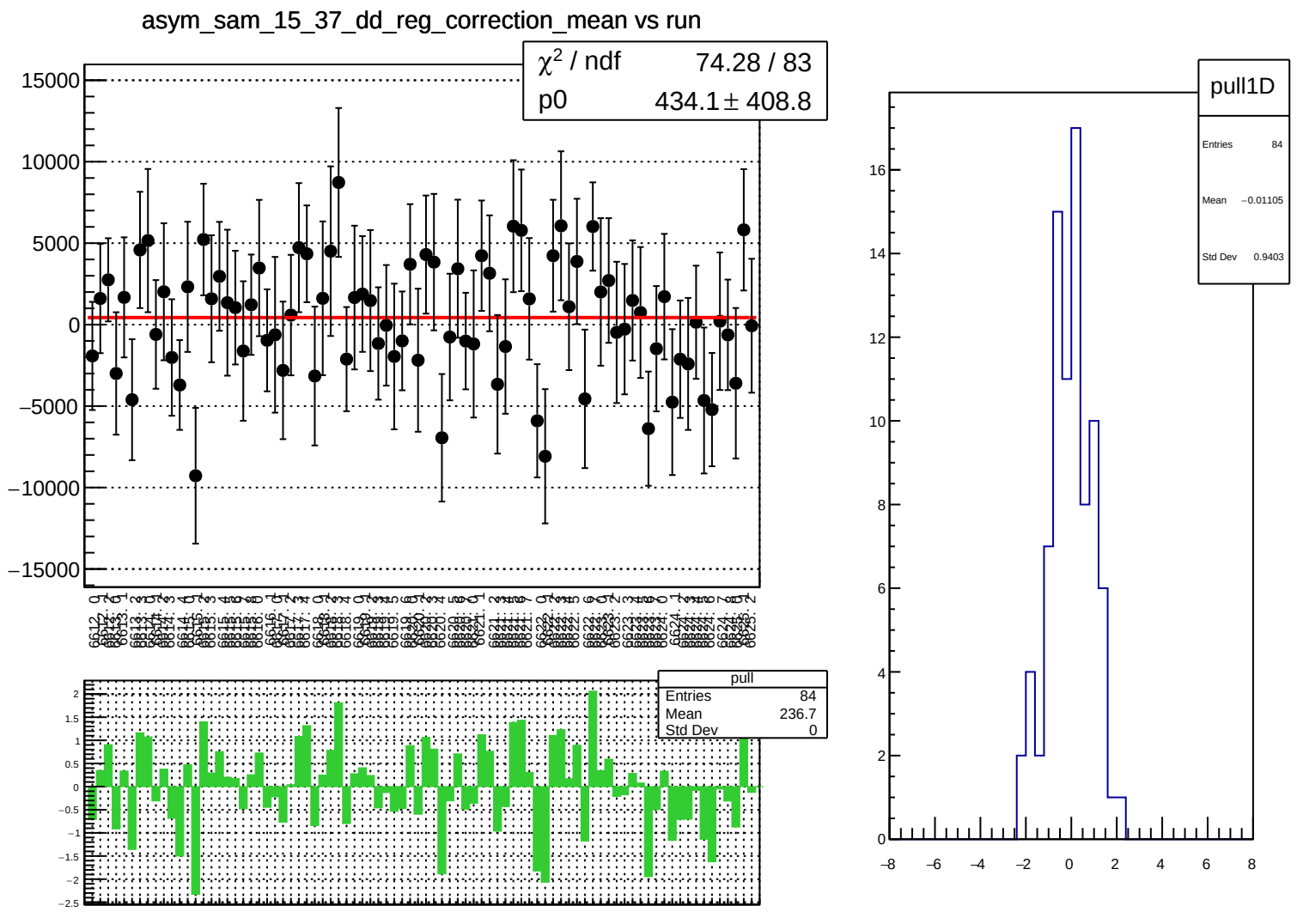

pull1D
Entries 84
Mean 0.05056
Std Dev 0.8449

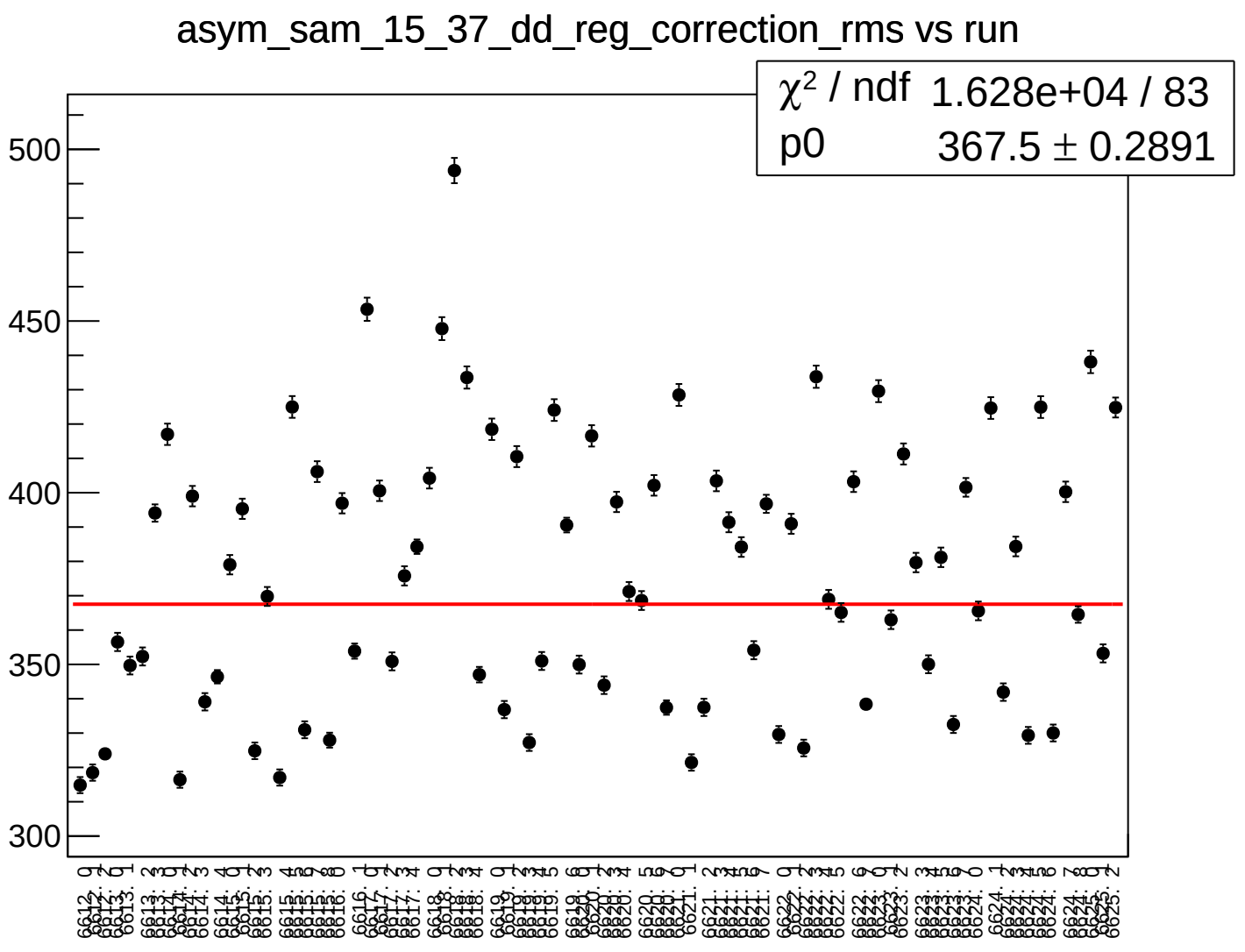

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.021e+05 / 83
p0 5.45e−12 ± 5.125e−15
30
25
20
15
10
5

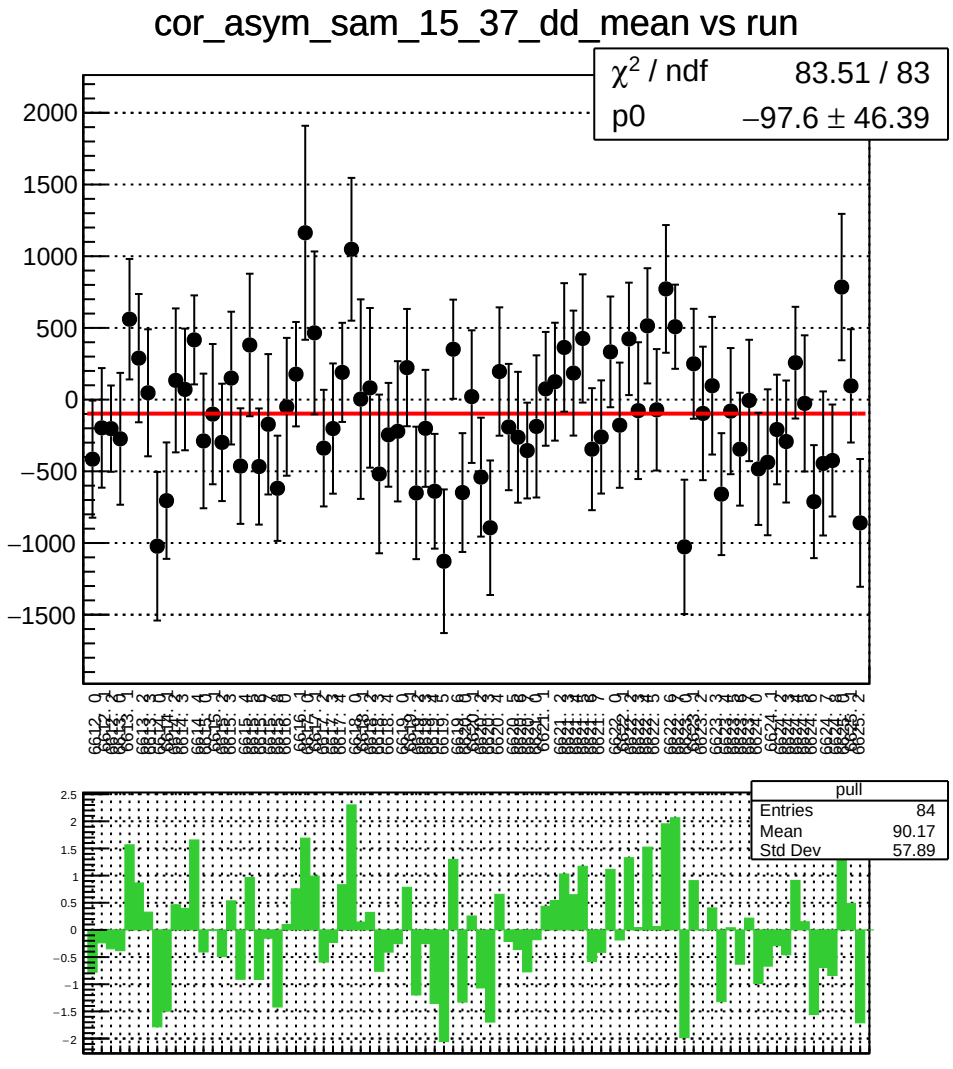

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 83.51 / 83
p0 −97.61 ± 46.39
pull
Entries 84
Mean 90.24
Std Dev 57.84

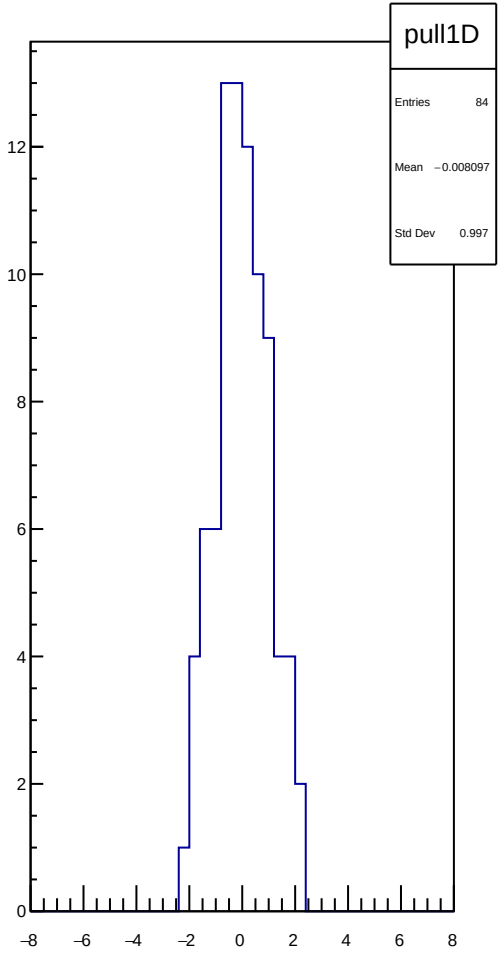

pull1D
Entries 84
Mean −0.008097
Std Dev 0.997

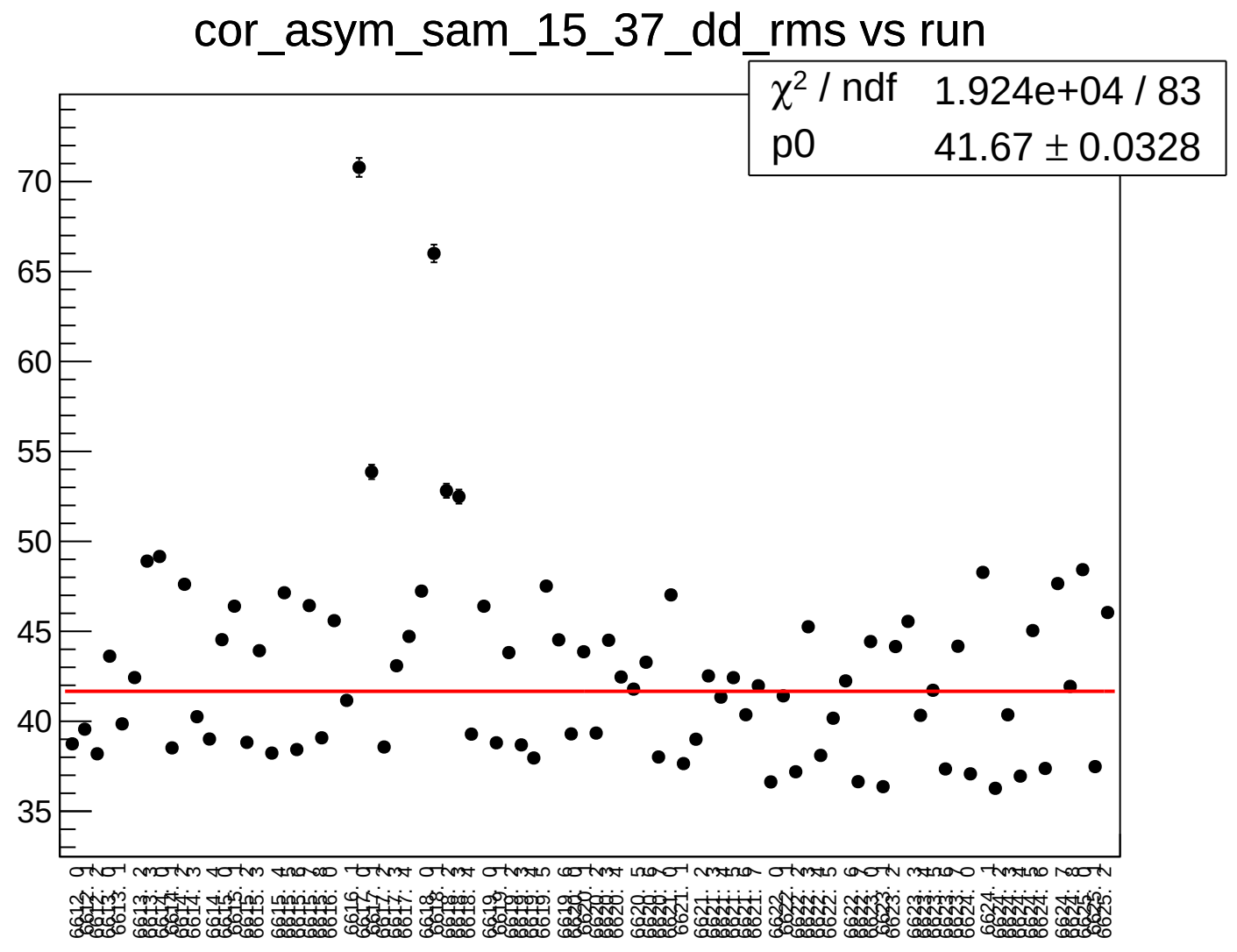

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.924e+04 / 83
p0 41.67 ± 0.0328
70
65
60
55
50
45
40
35

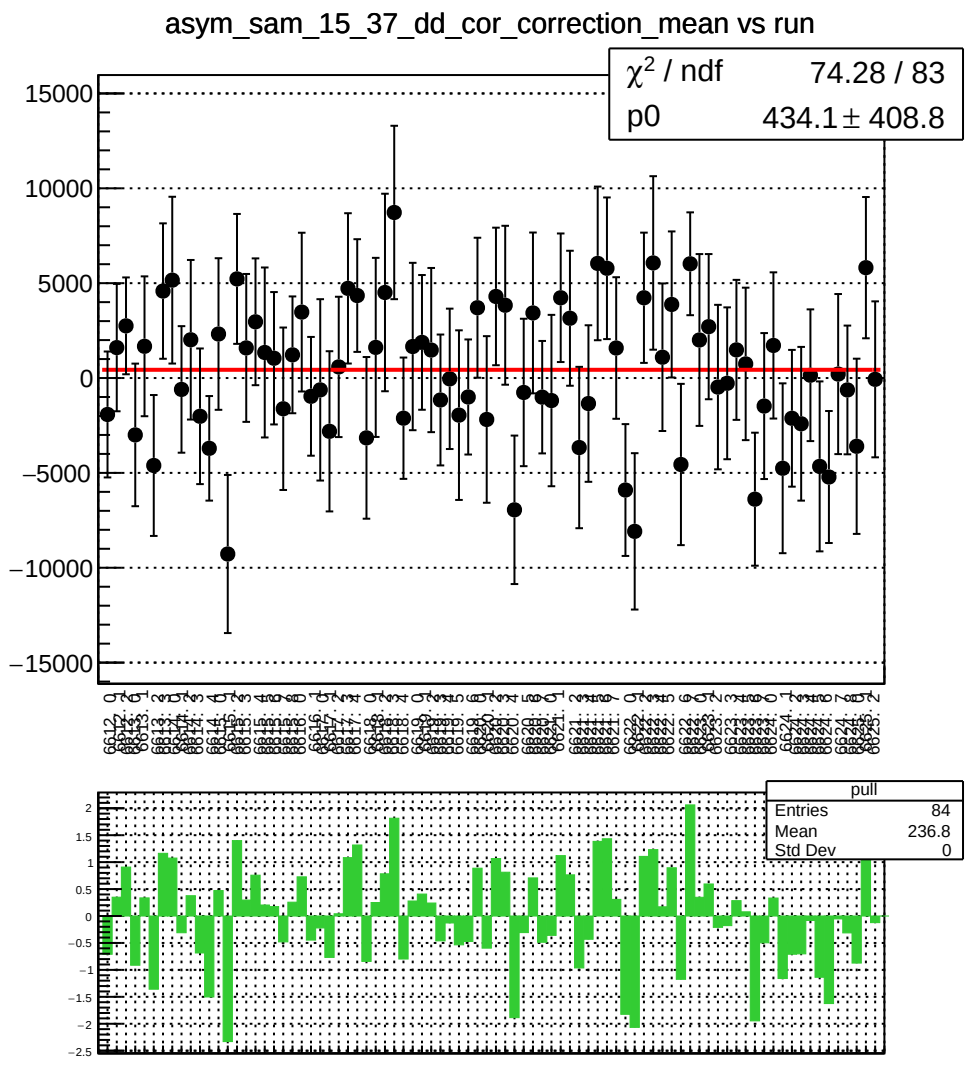

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 74.28 / 83
p0 434.1 ± 408.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 236.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 84
Mean −0.01105
Std Dev 0.9403
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

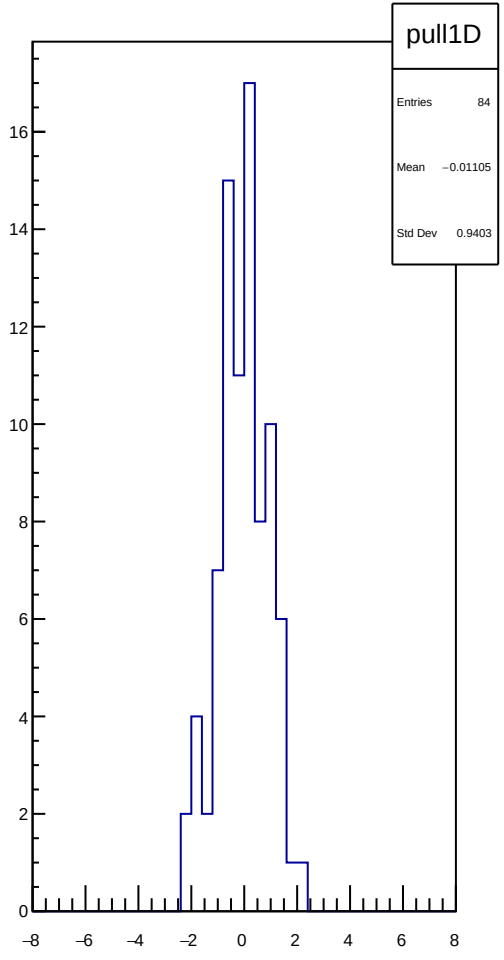

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1.628e+04 / 83
p0 367.5 ± 0.2891
500
450
400
350
300

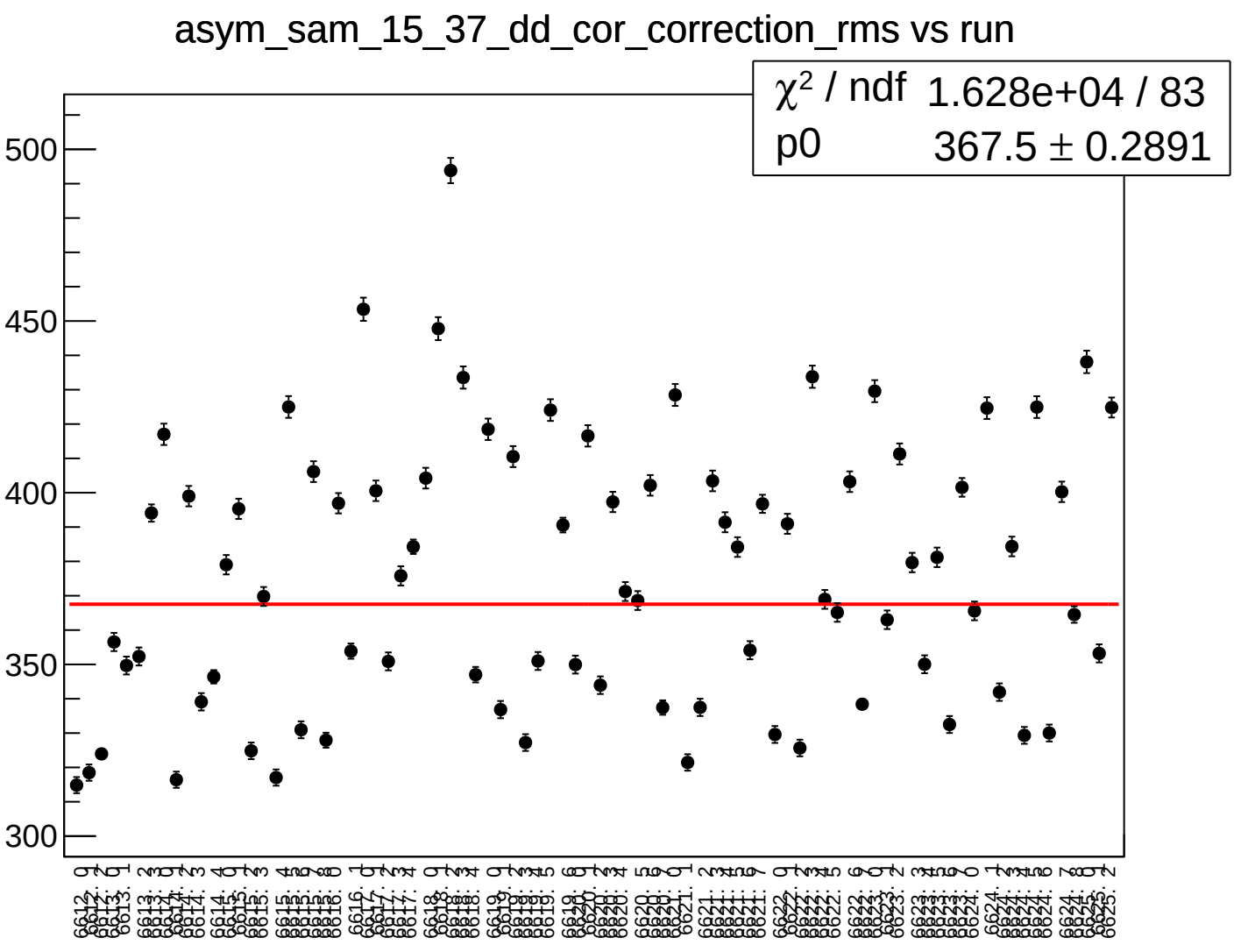

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 83.51 / 83
p0 −97.6 ± 46.39
pull
Entries 84
Mean 90.17
Std Dev 57.89

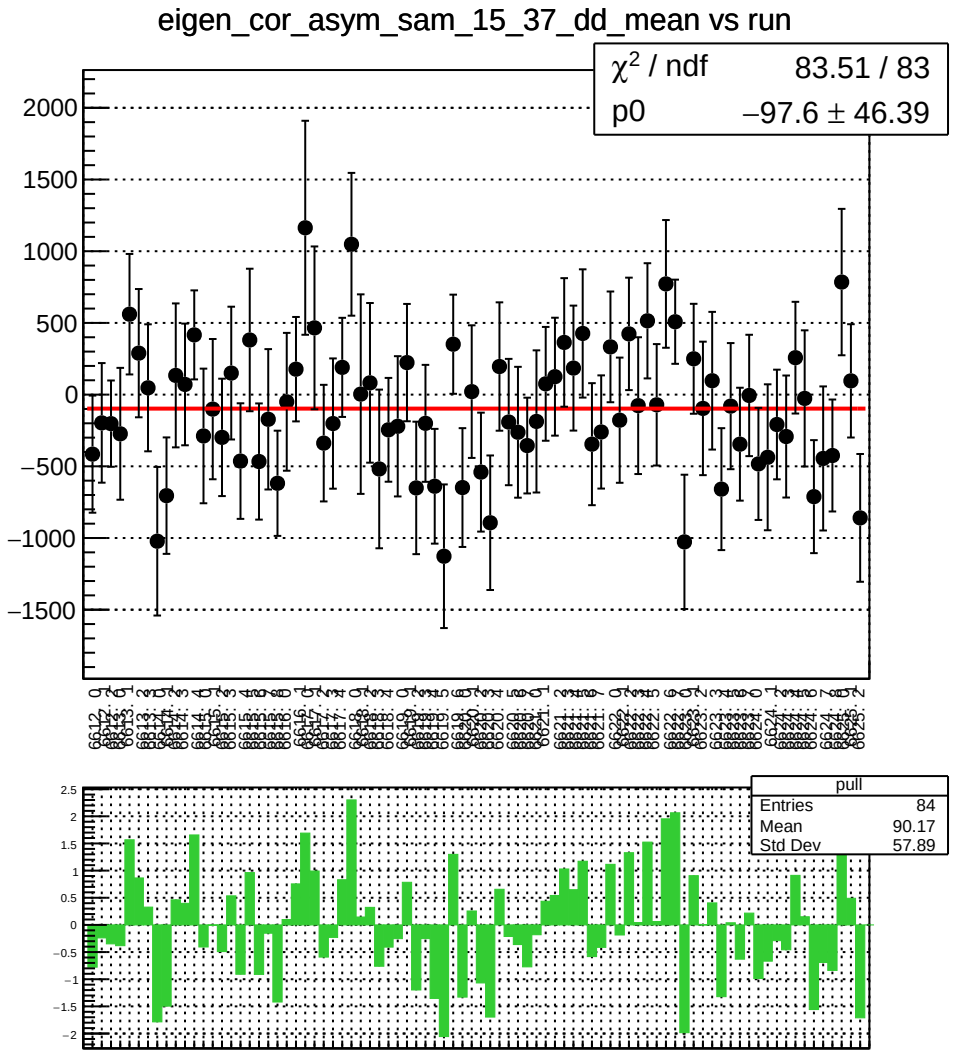

pull1D
Entries 84
Mean −0.008097
Std Dev 0.997

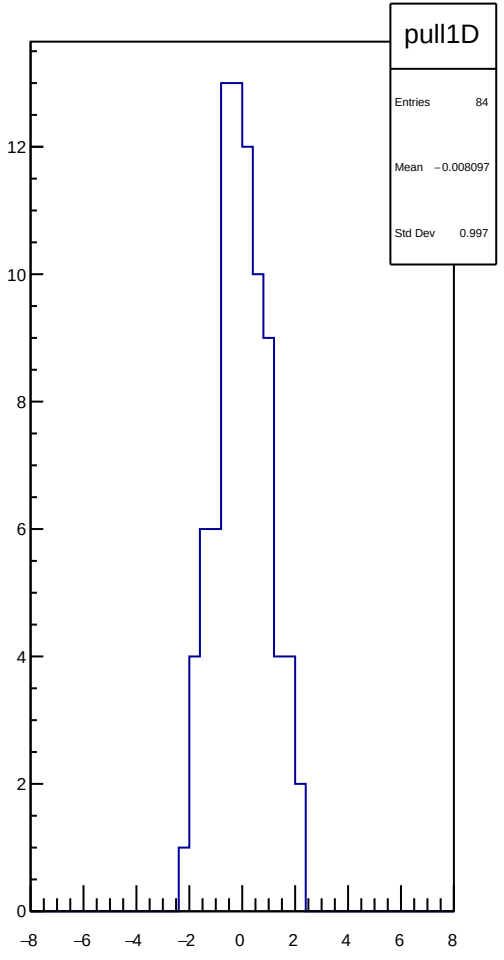

cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.924e+04 / 83
p0 41.67 ± 0.0328
70
65
60
55
50
45
40
35

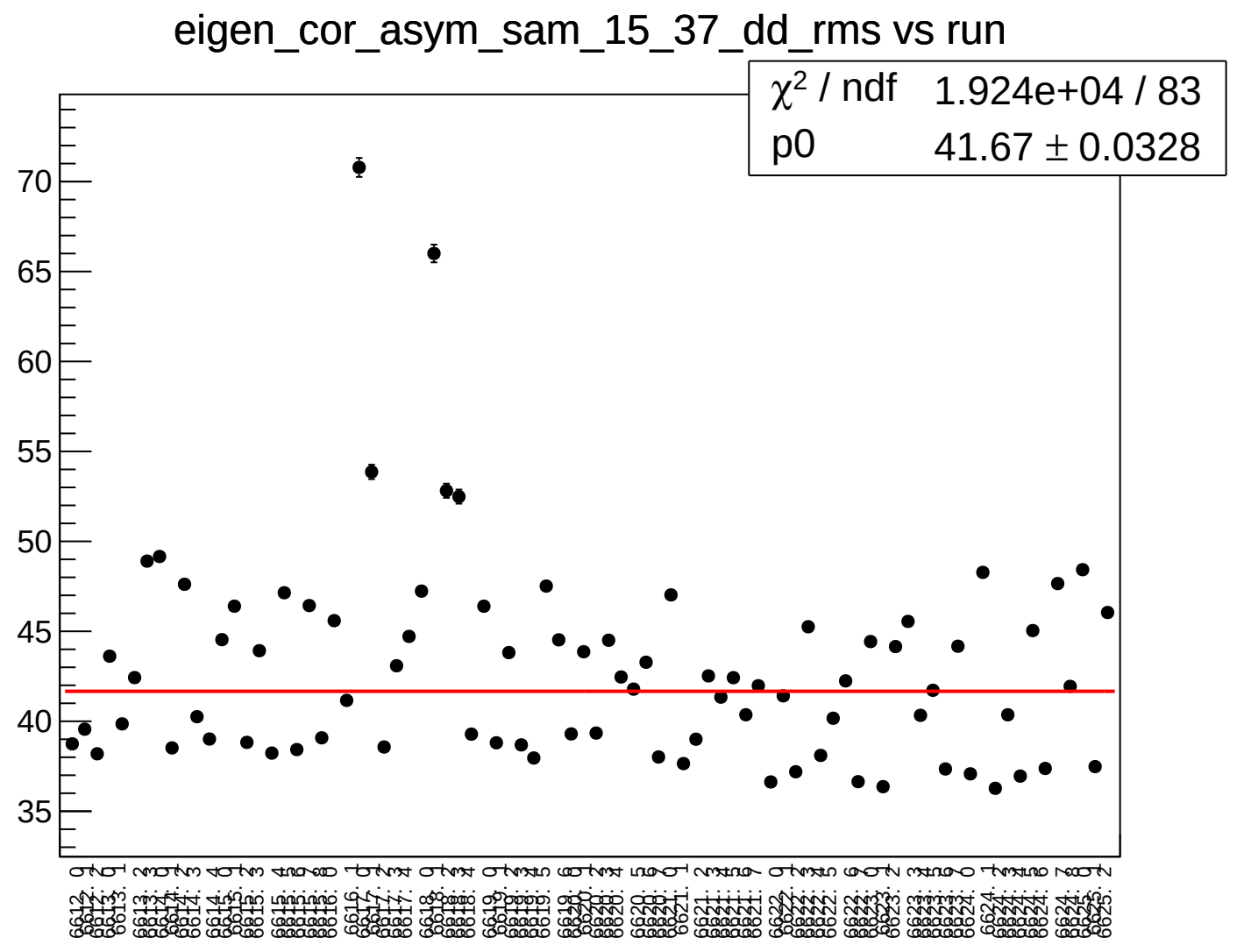

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 74.28 / 83
p0 434.1 ± 408.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 236.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

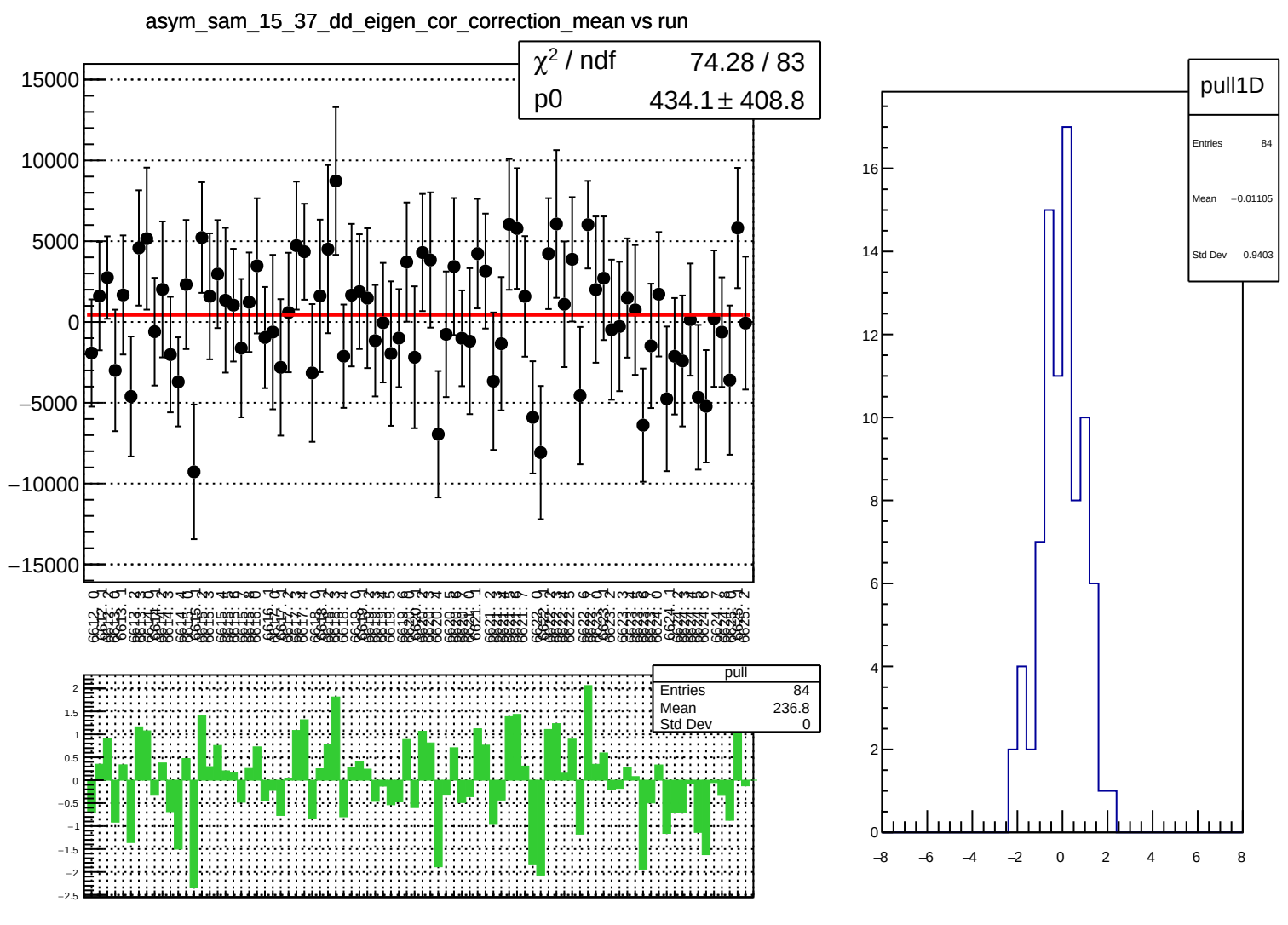

pull1D
Entries 84
Mean −0.01105
Std Dev 0.9403
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

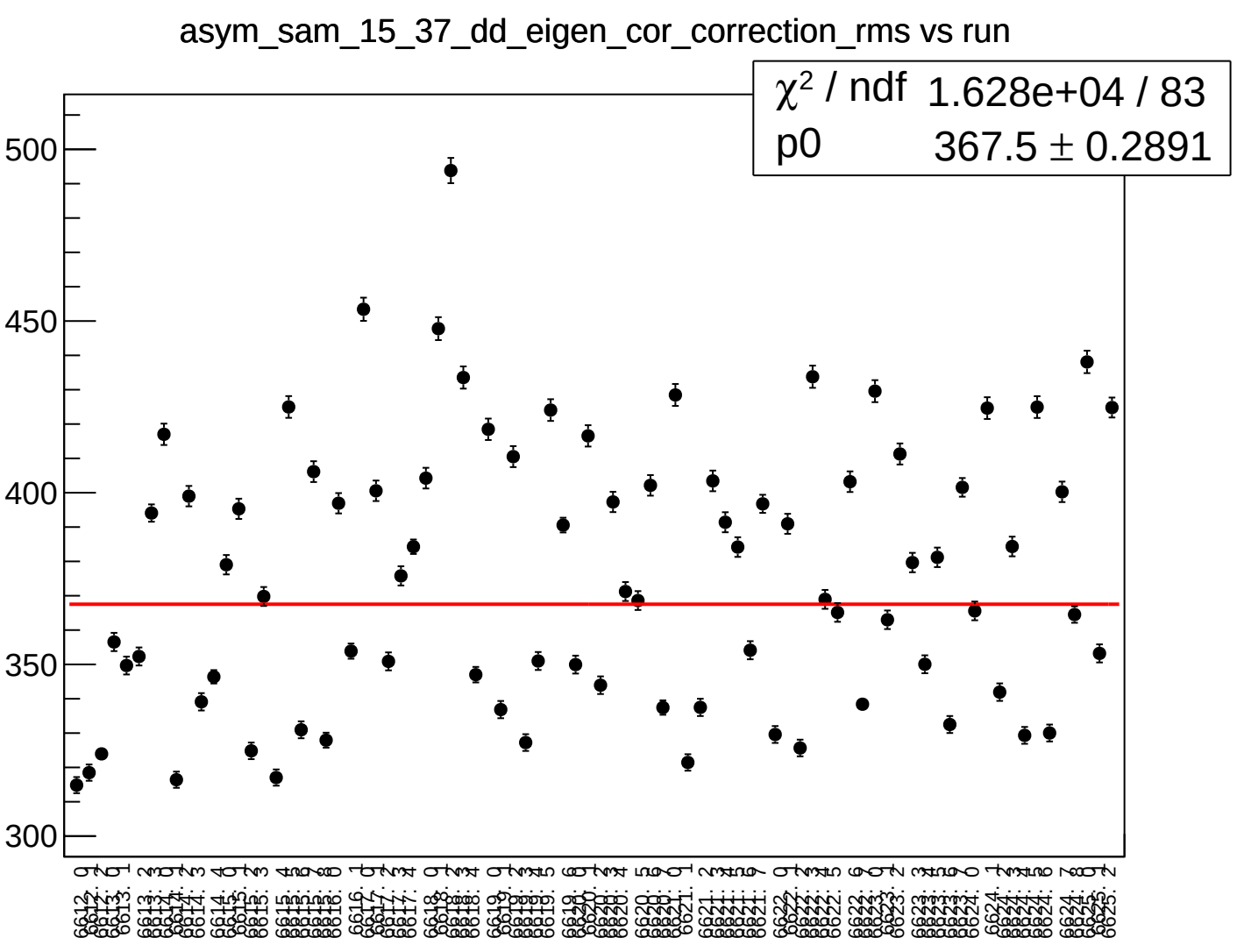

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1.628e+04 / 83
p0 367.5 ± 0.2891
500
450
400
350
300

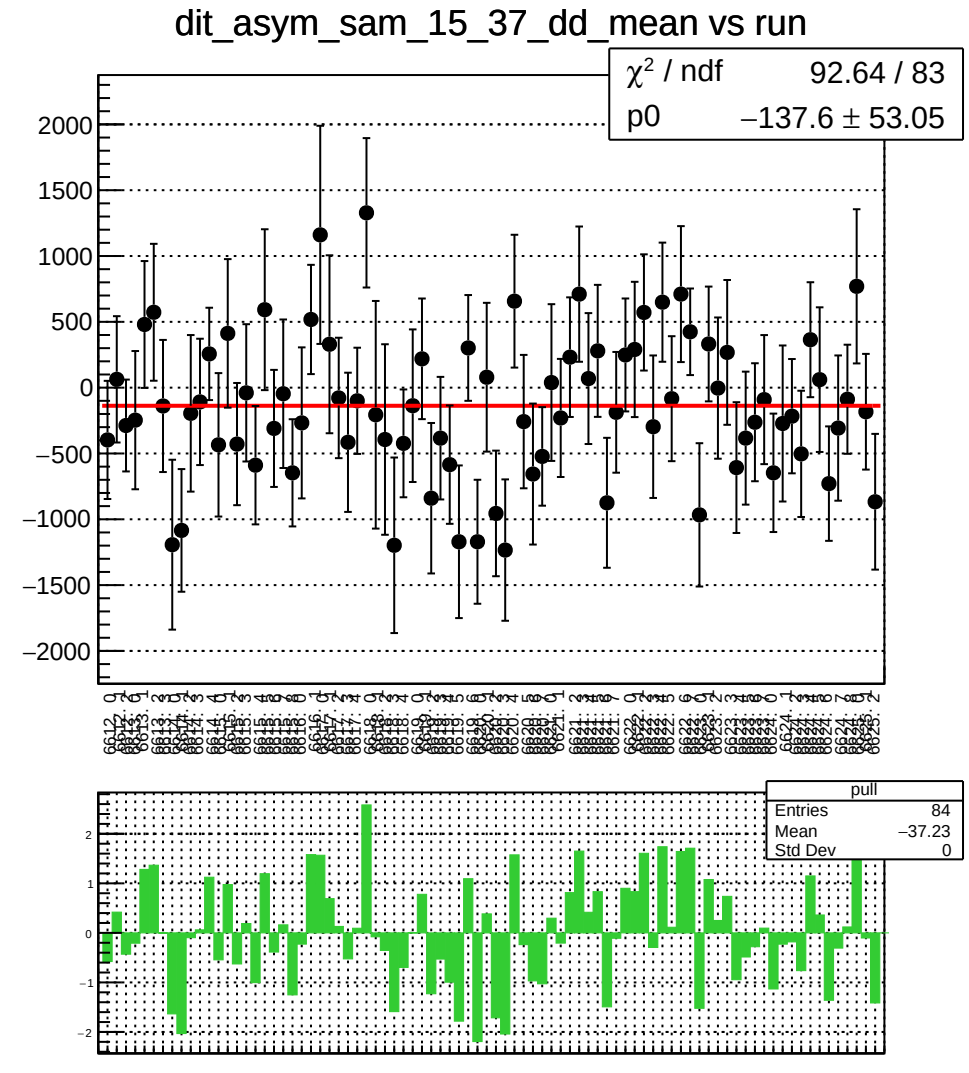

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 83.51 / 83
p0 −97.6 ± 46.39
pull
Entries 84
Mean 90.17
Std Dev 57.89

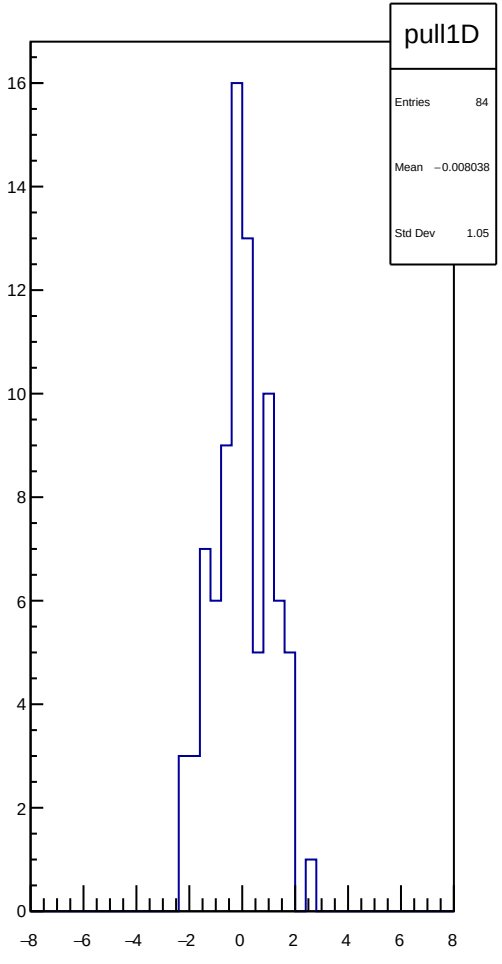

pull1D
Entries 84
Mean −0.008097
Std Dev 0.997

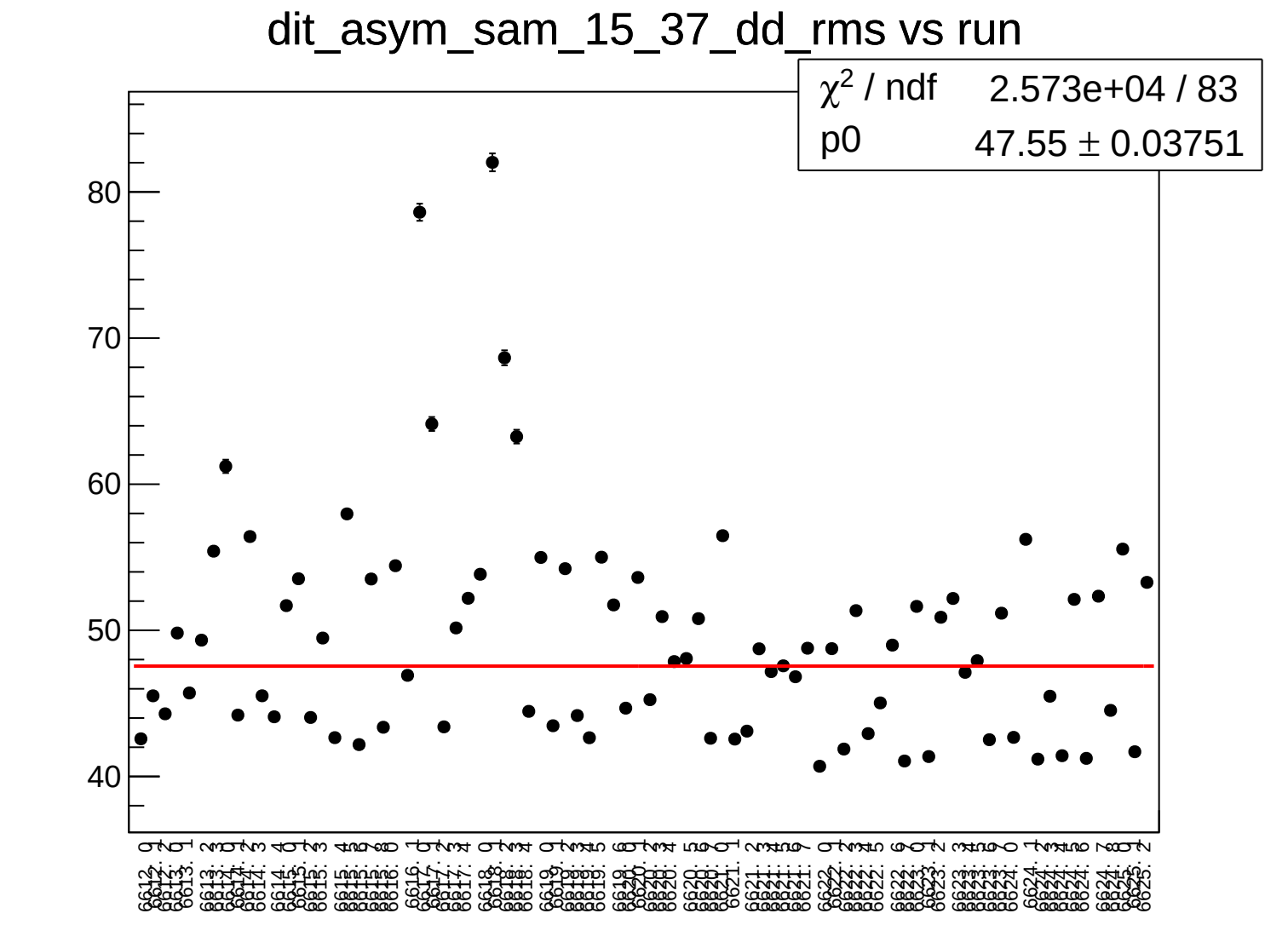

eigen_cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.924e+04 / 83
p0 41.67 ± 0.0328
70
65
60
55
50
45
40
35

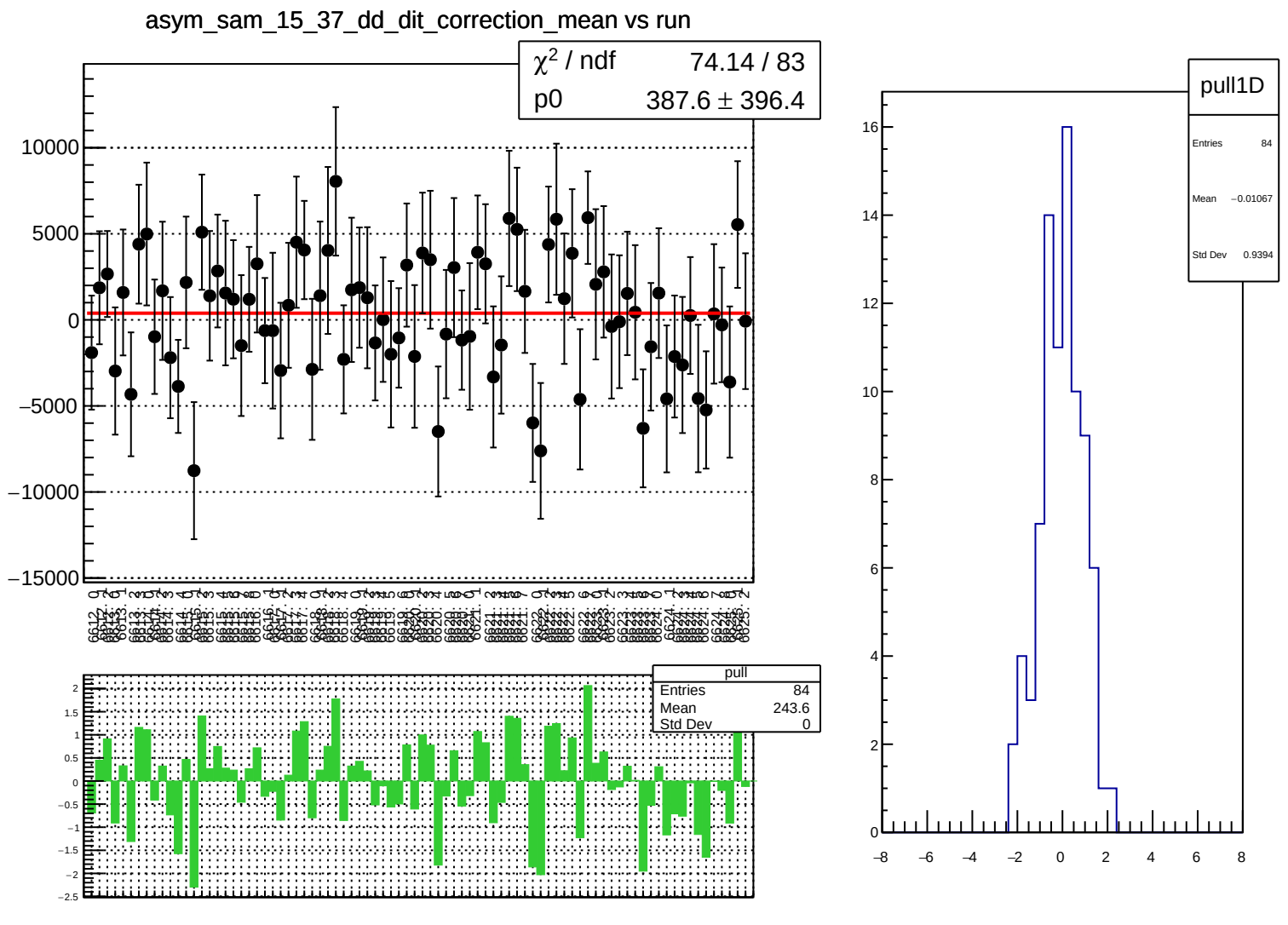

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.28 / 83
p0 434.1 ± 408.8
pull
Entries 84
Mean 236.8
Std Dev 0
pull1D
Entries 84
Mean −0.01105
Std Dev 0.9403

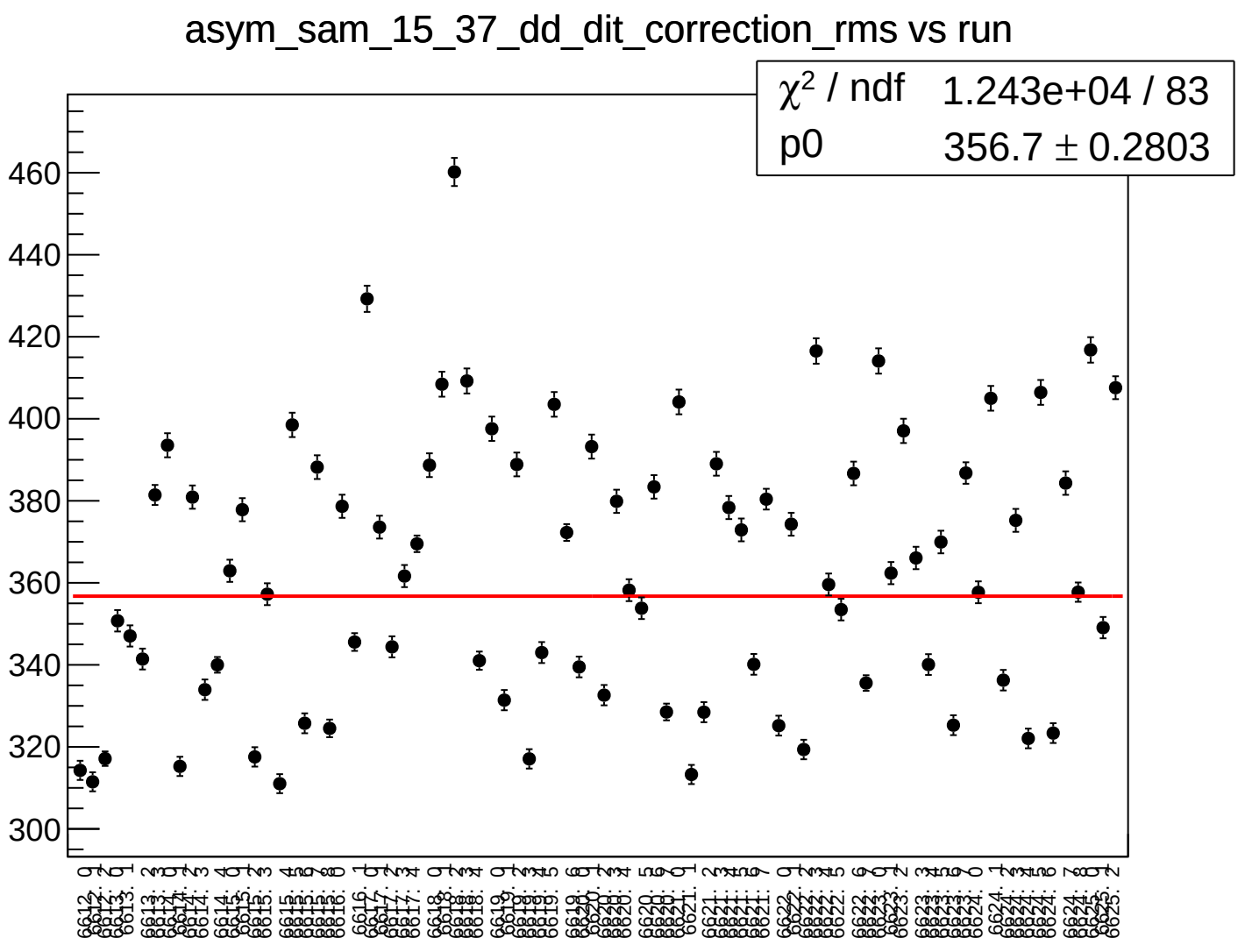

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.628e+04 / 83
p0 367.5 ± 0.2891
500
450
400
350
300

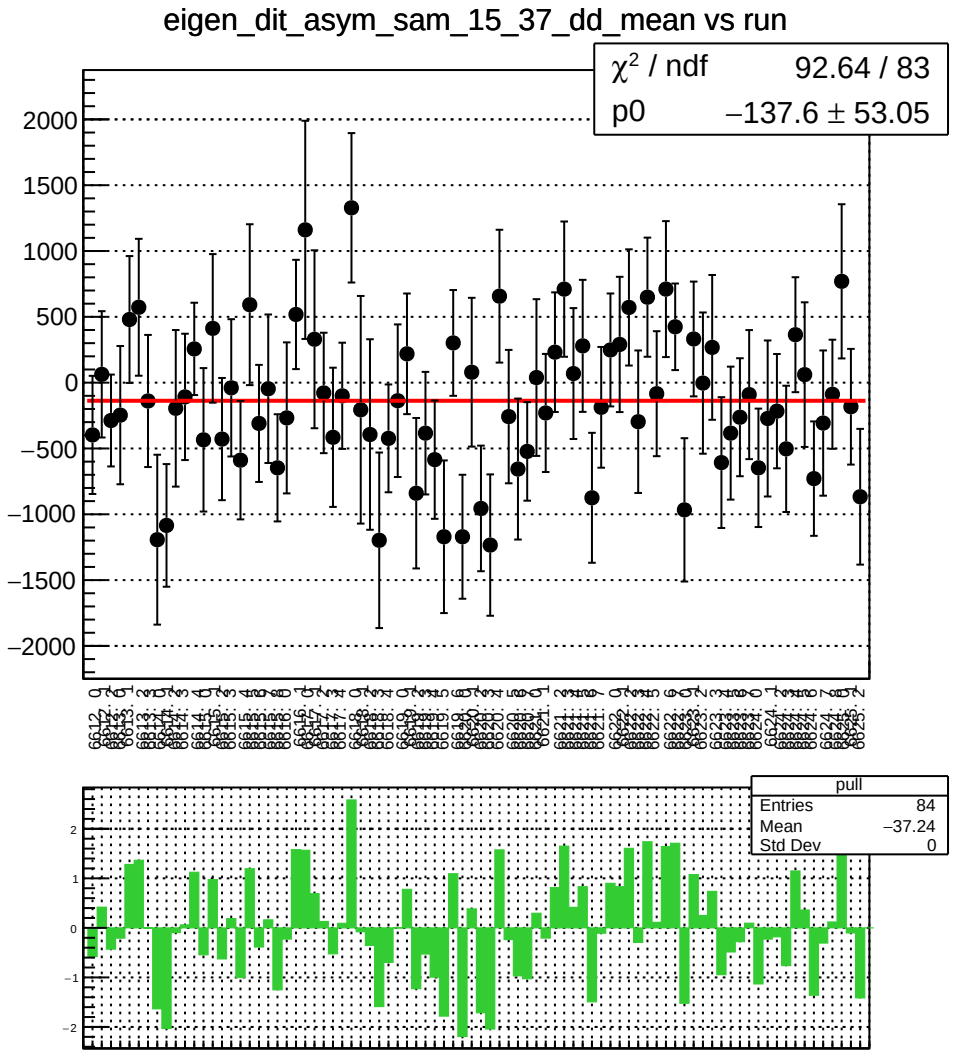

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 92.64 / 83
p0 −137.6 ± 53.05
pull
Entries 84
Mean −37.23
Std Dev 0

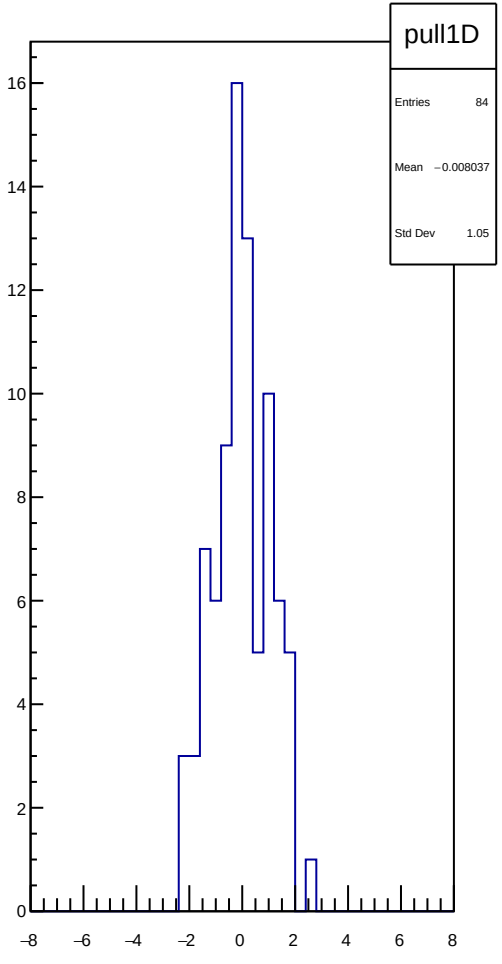

pull1D
Entries 84
Mean −0.008038
Std Dev 1.05

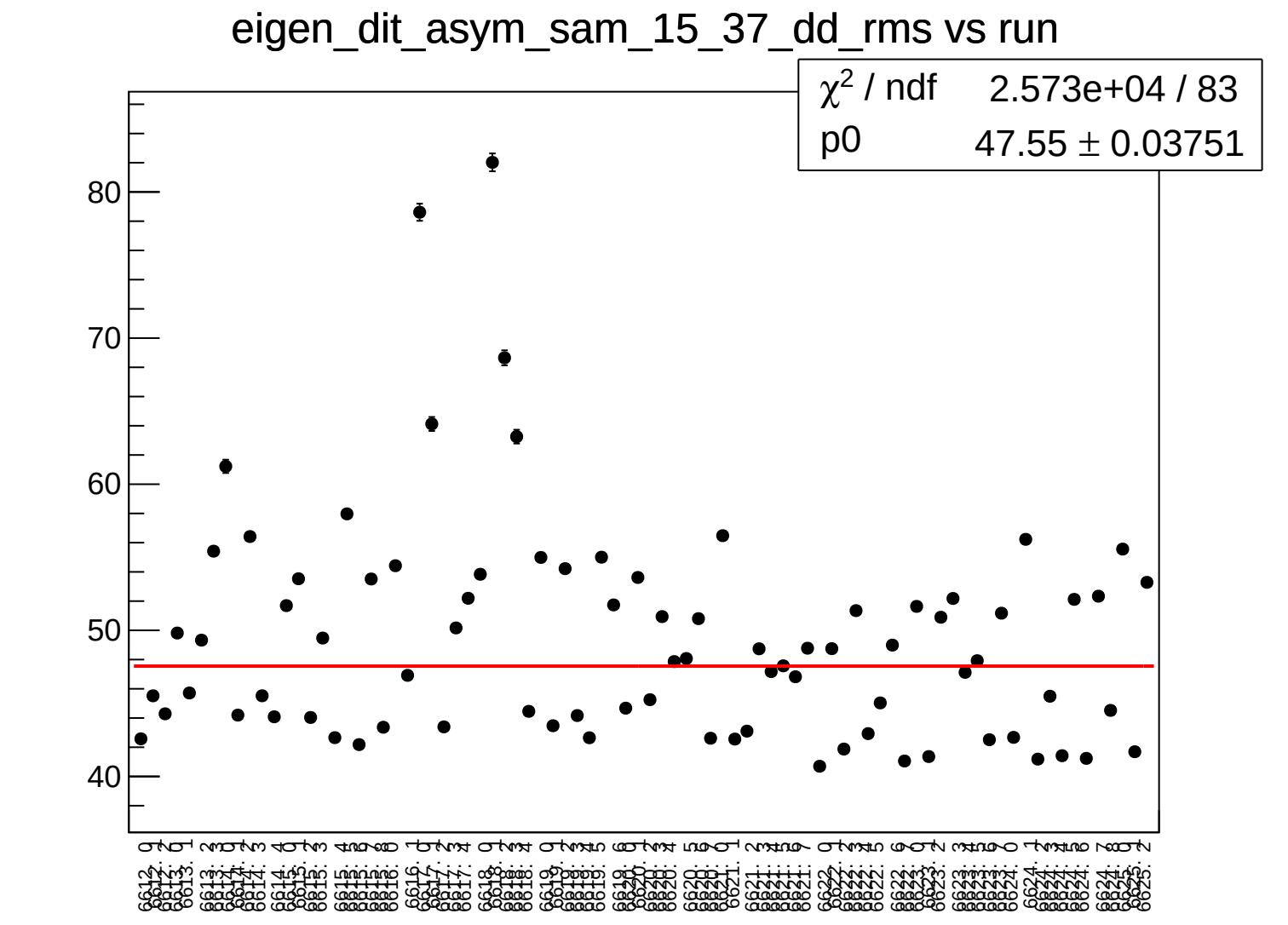

dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.573e+04 / 83
p0 47.55 ± 0.03751
80
70
60
50
40

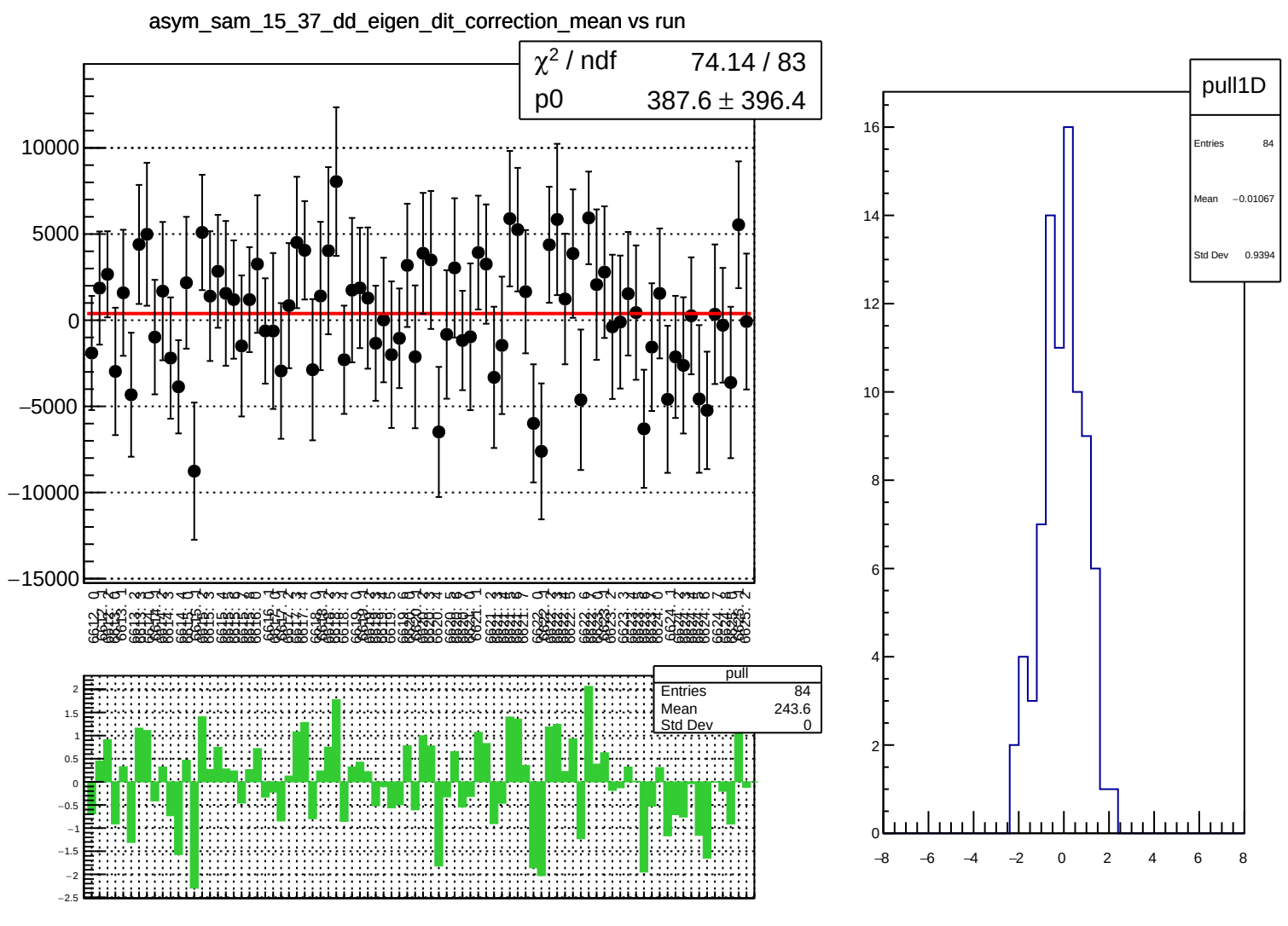

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 74.14 / 83
p0 387.6 ± 396.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 243.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 84
Mean −0.01067
Std Dev 0.9394
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

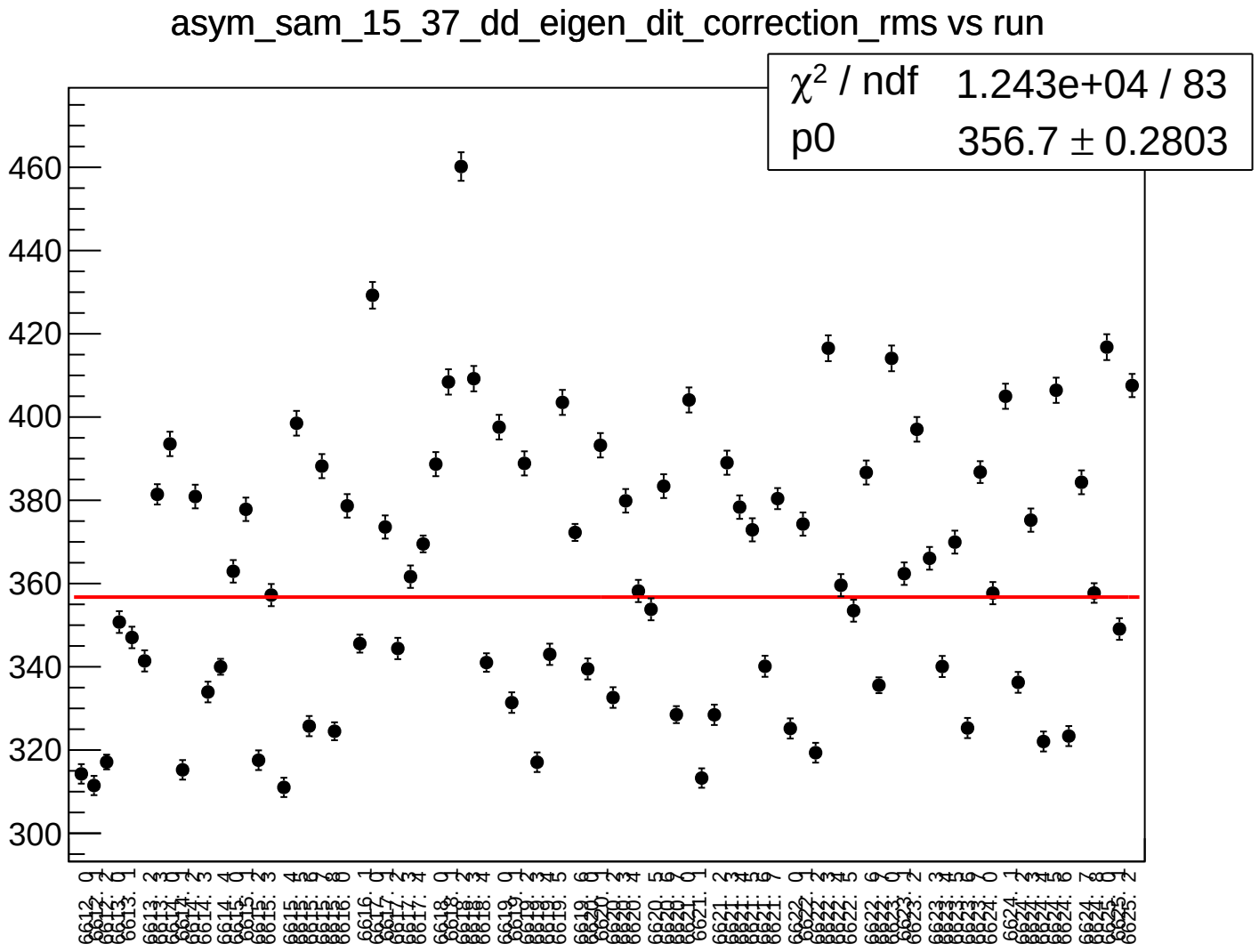

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 1.243e+04 / 83
p0 356.7 ± 0.2803
460
440
420
400
380
360
340
320
300

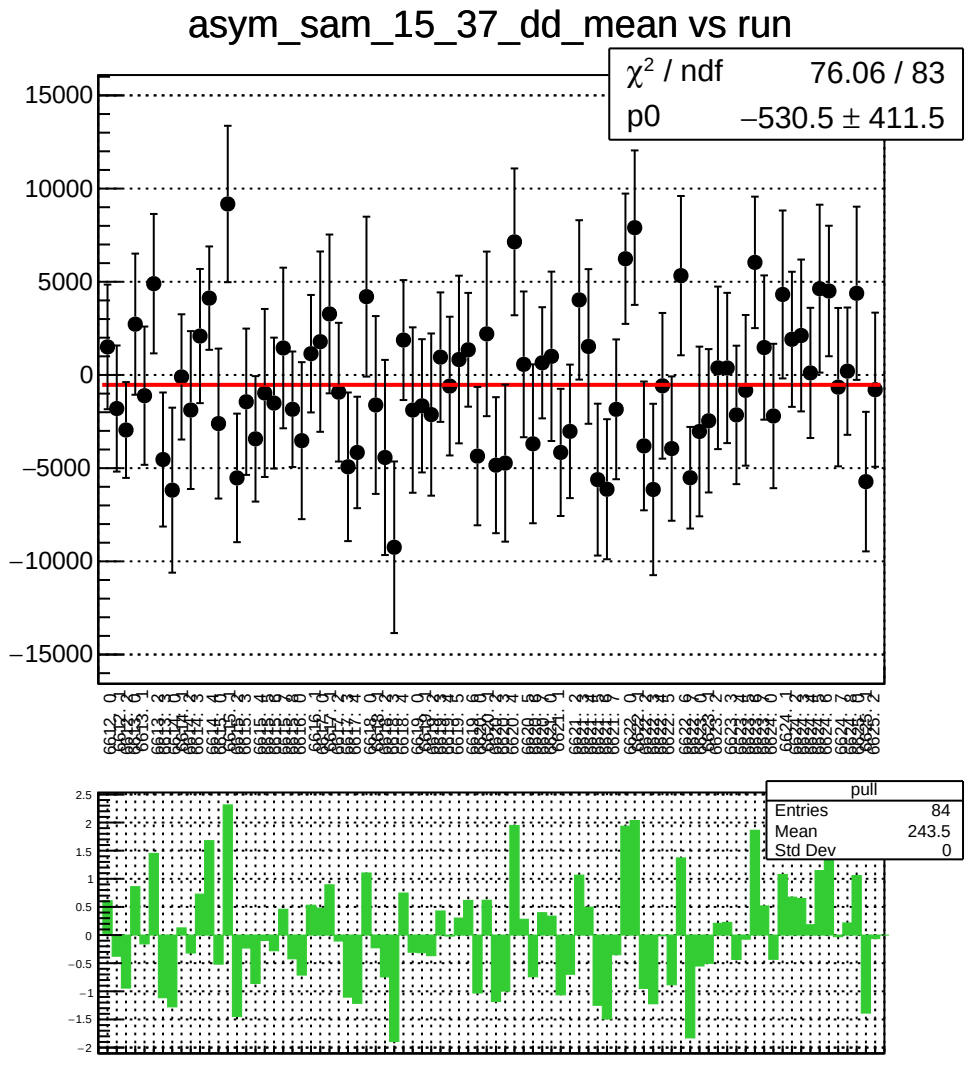

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 92.64 / 83
p0 −137.6 ± 53.05
pull
Entries 84
Mean −37.24
Std Dev 0

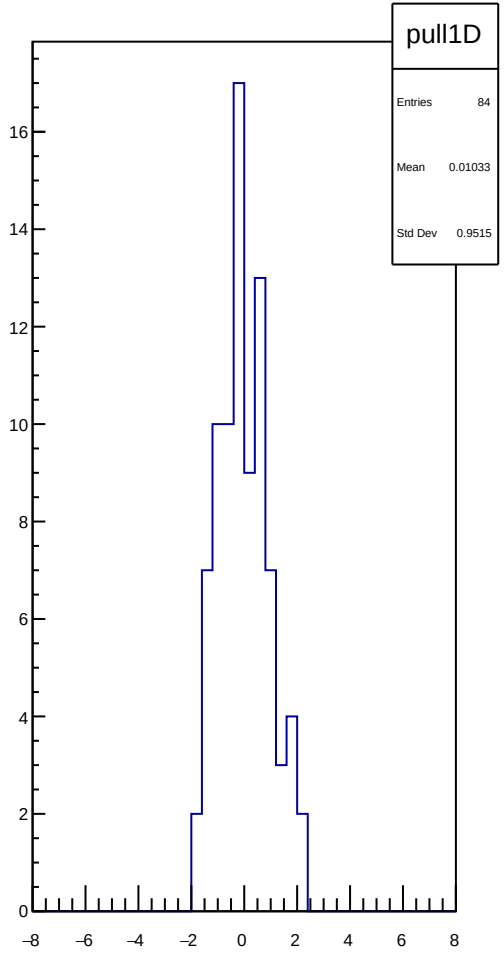

pull1D
Entries 84
Mean −0.008037
Std Dev 1.05

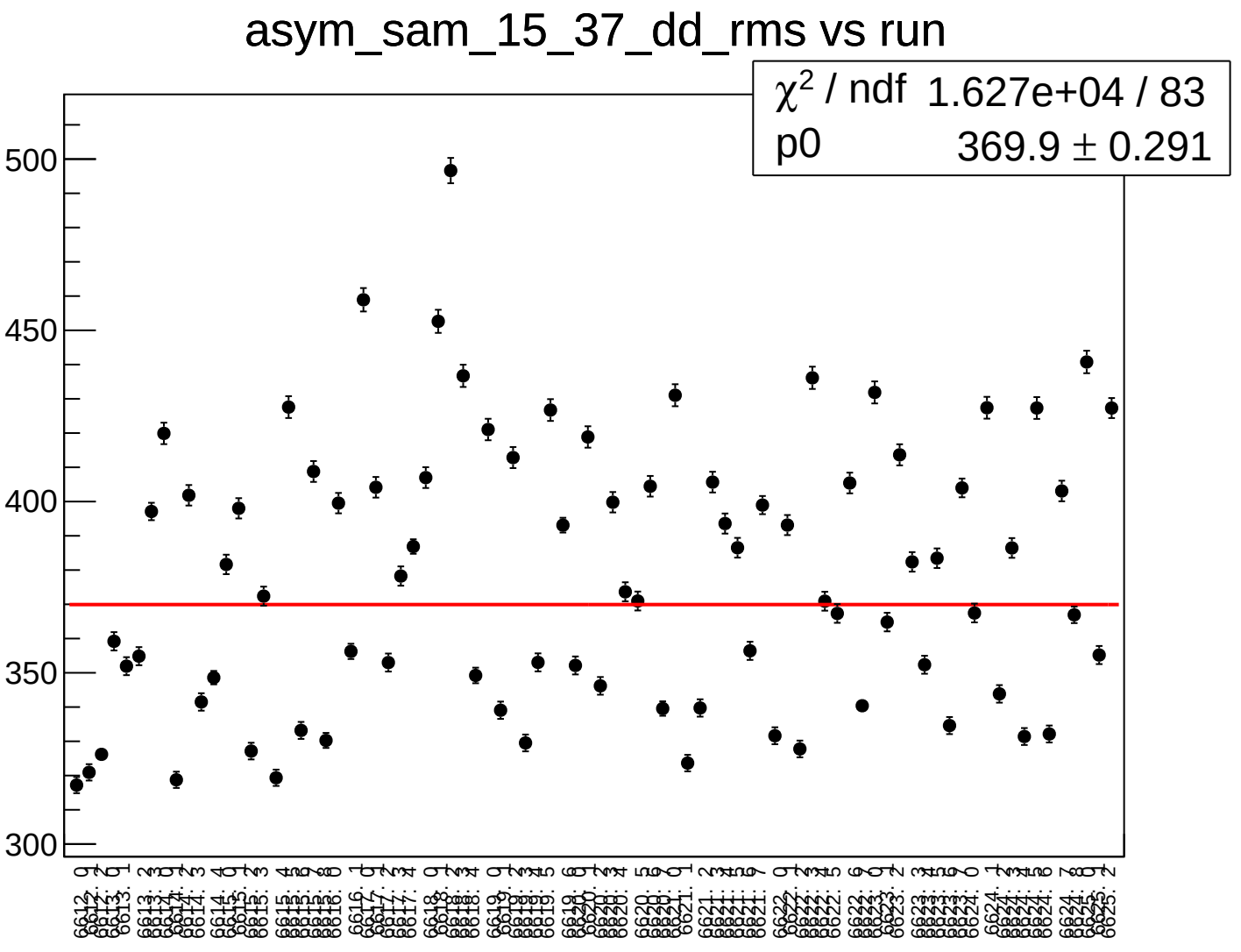

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.573e+04 / 83
p0 47.55 ± 0.03751
80
70
60
50
40

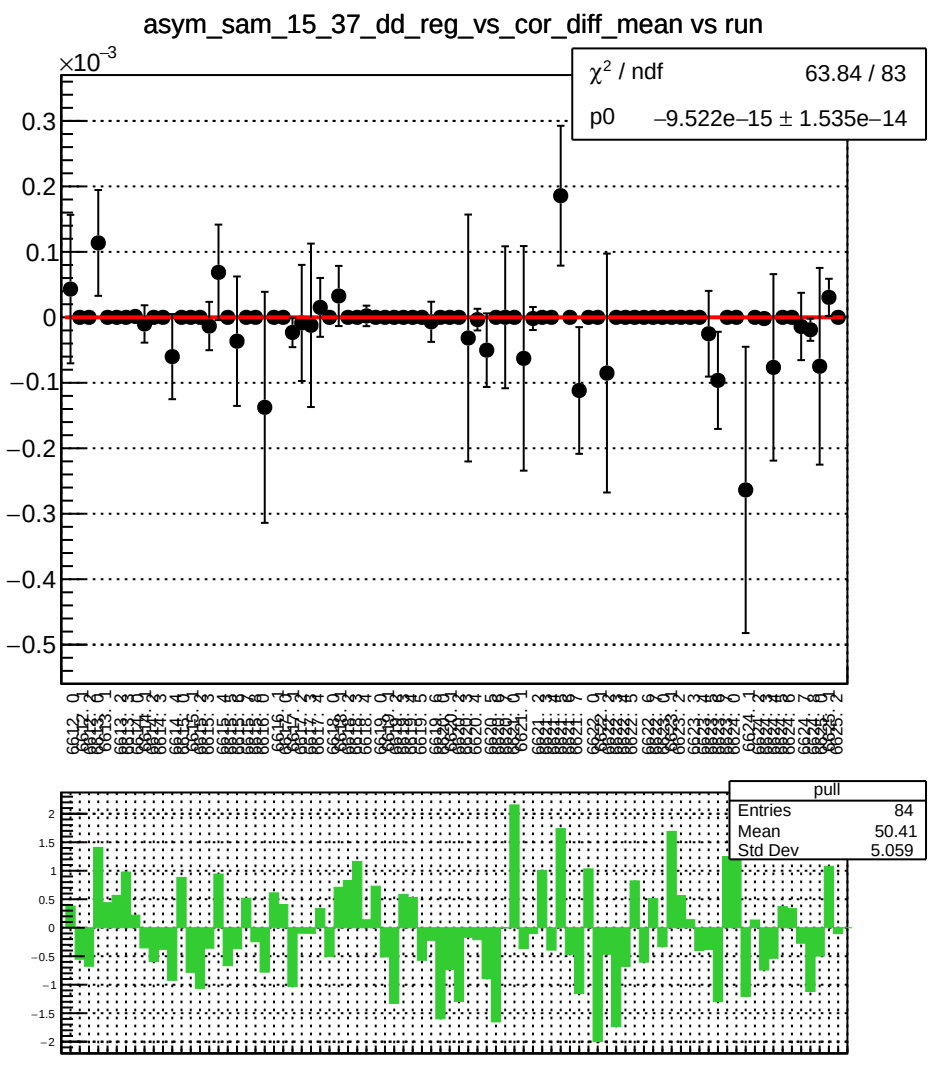

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.14 / 83
p0 387.6 ± 396.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 243.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 84
Mean −0.01067
Std Dev 0.9394
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

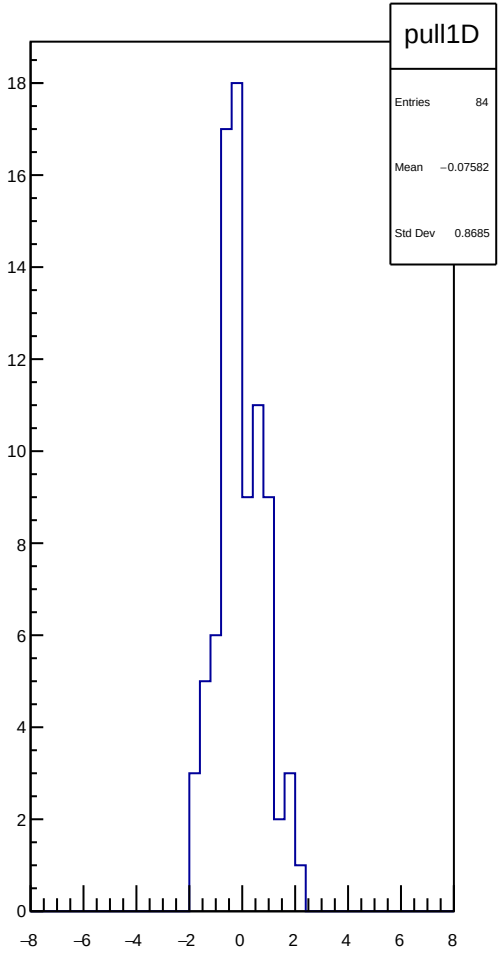

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.243e+04 / 83
p0 356.7 ± 0.2803
460
440
420
400
380
360
340
320
300

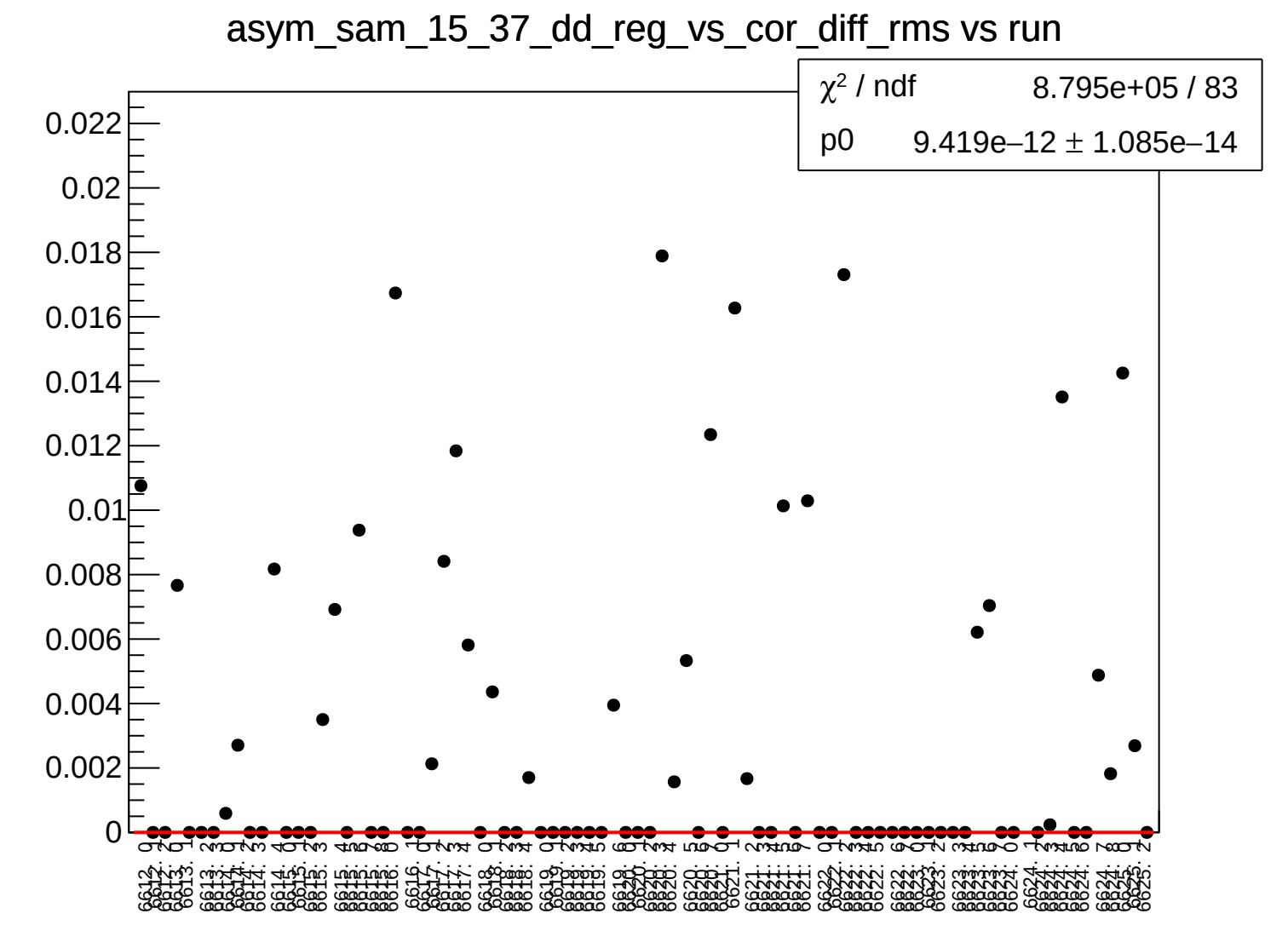

asym_sam_15_37_dd_mean vs run
χ² / ndf 76.06 / 83
p0 −530.5 ± 411.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 243.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

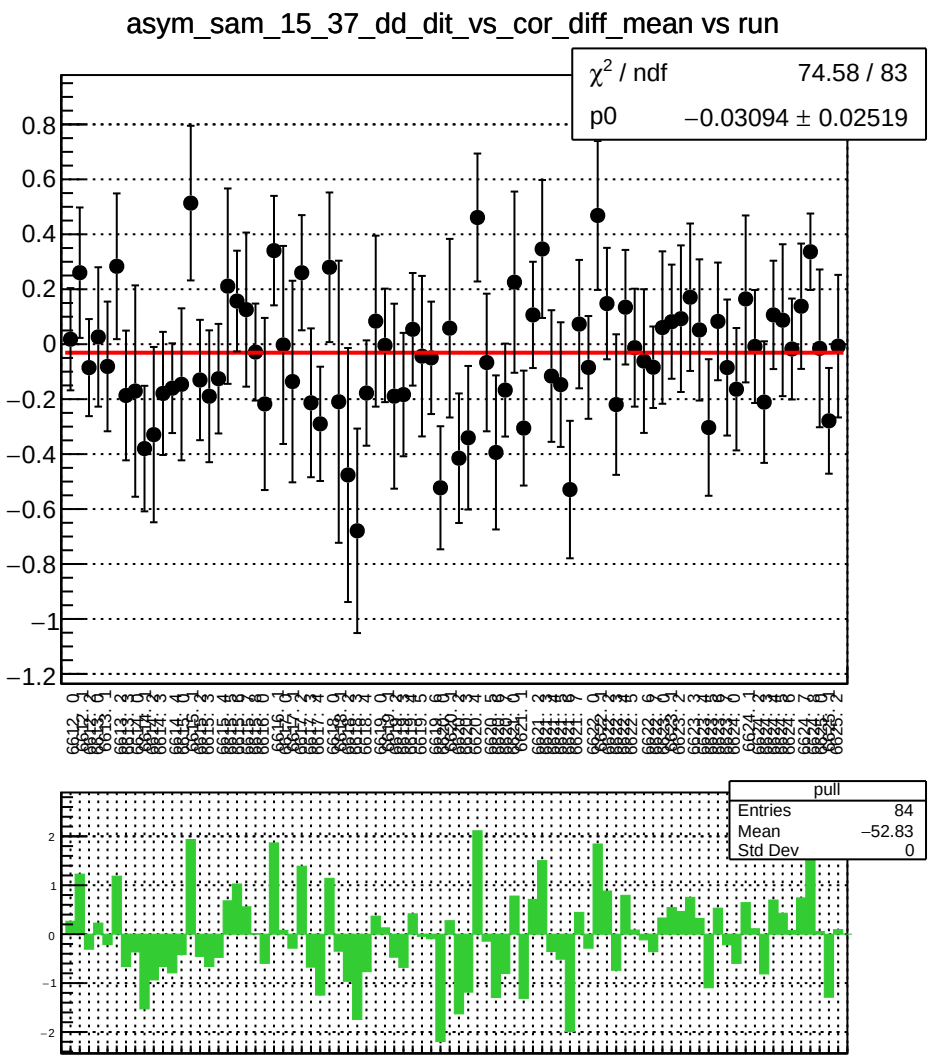

pull1D
Entries 84
Mean 0.01033
Std Dev 0.9515
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

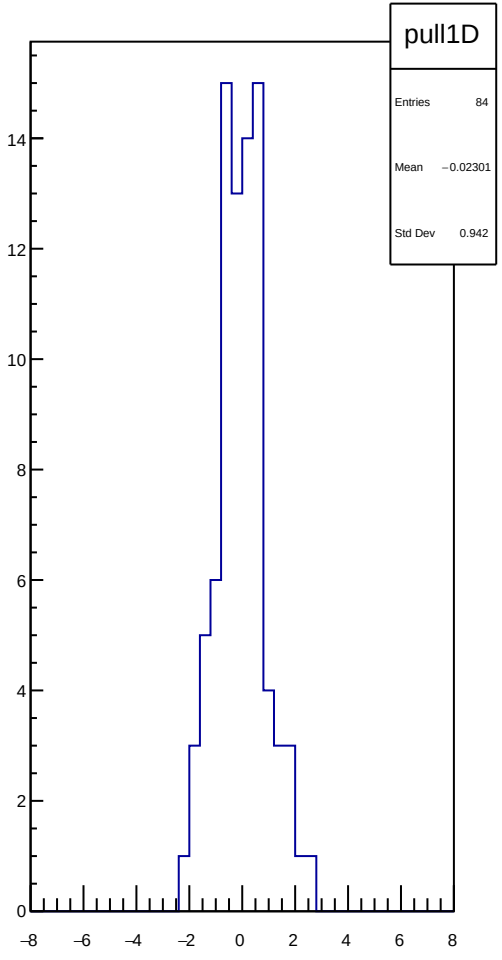

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.627e+04 / 83
p0 369.9 ± 0.291
500
450
400
350
300

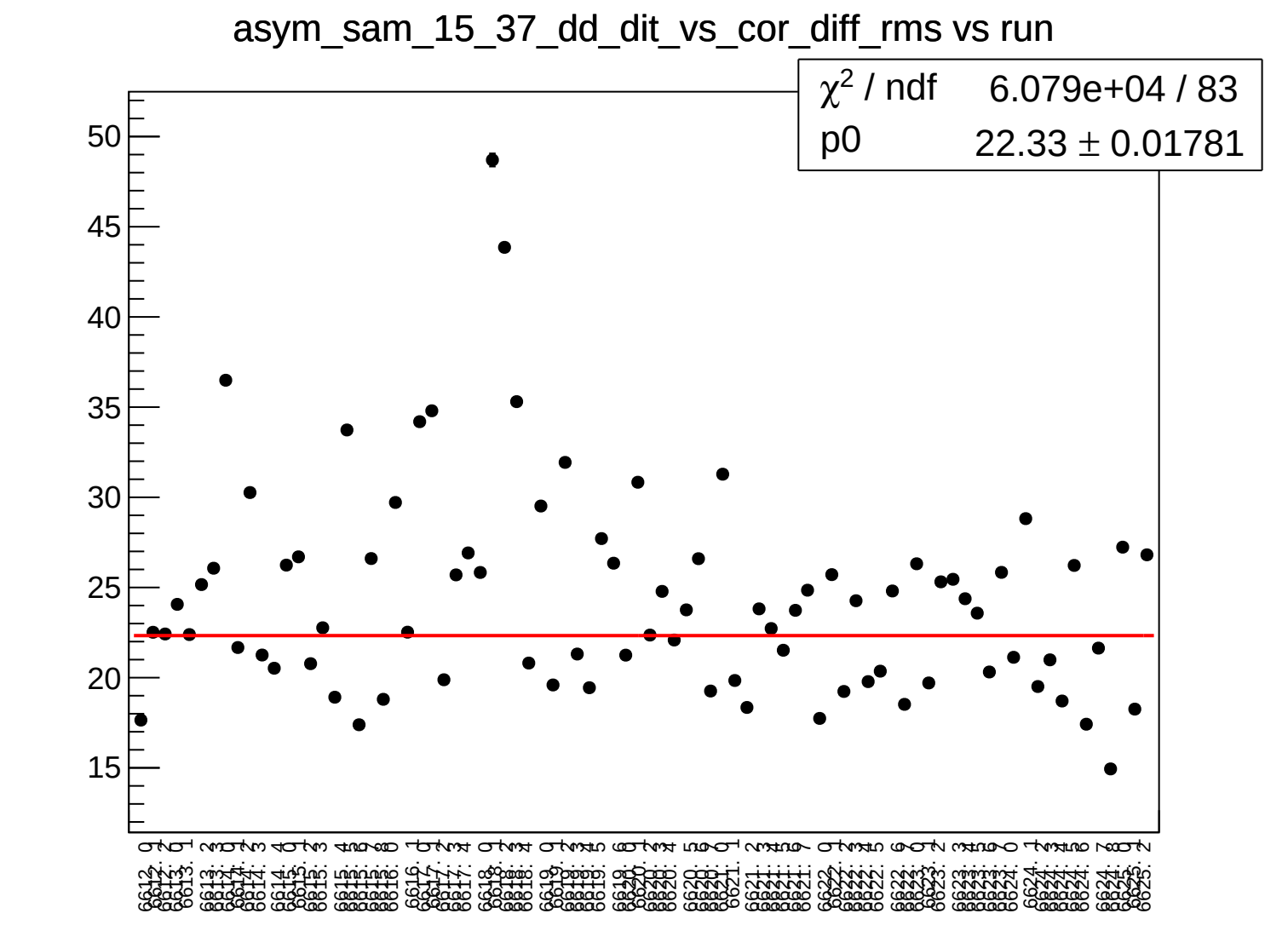

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 63.84 / 83
p0 −9.522e−15 ± 1.535e−14
pull
Entries 84
Mean 50.41
Std Dev 5.059

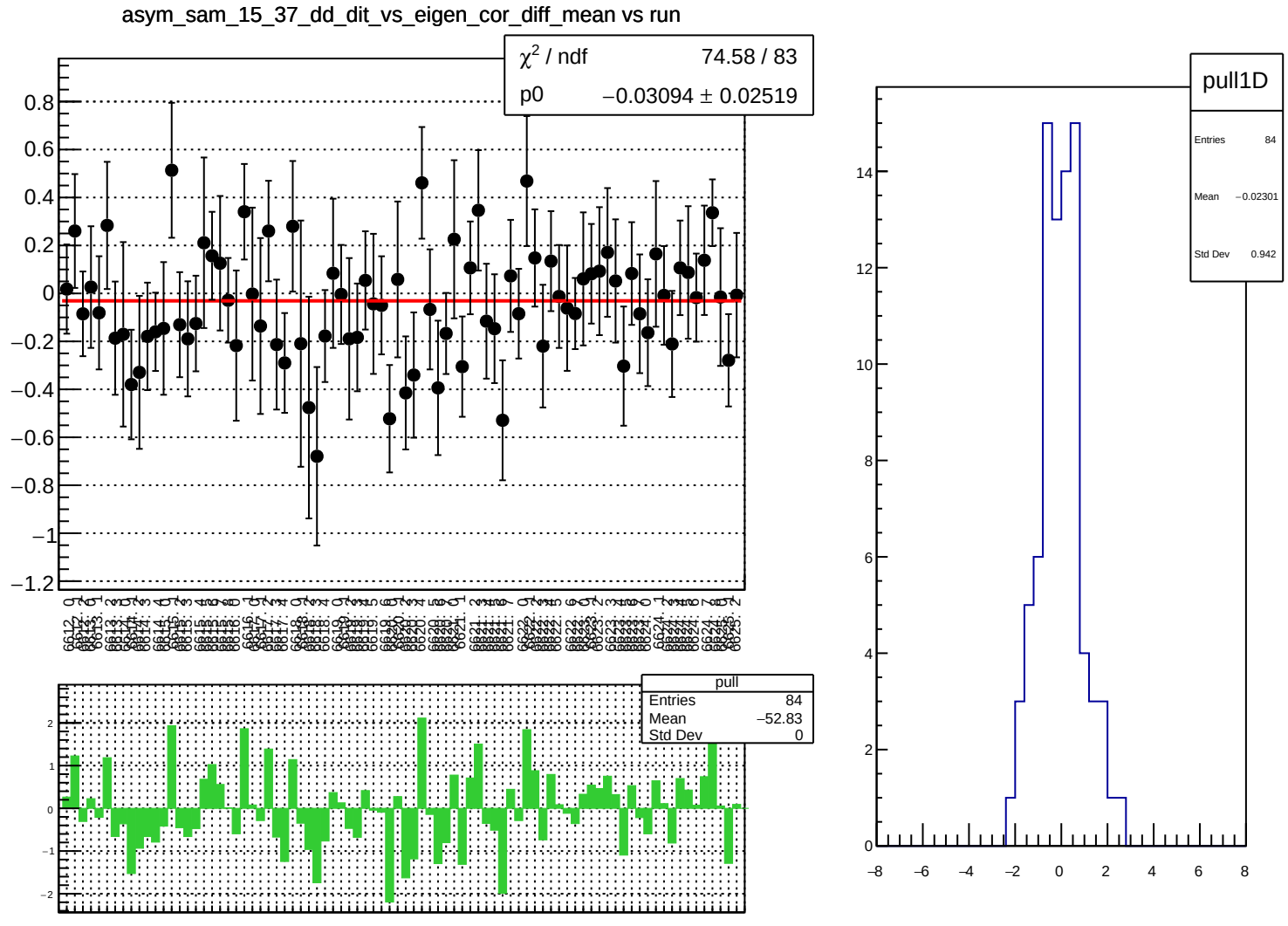

pull1D
Entries 84
Mean −0.07582
Std Dev 0.8685

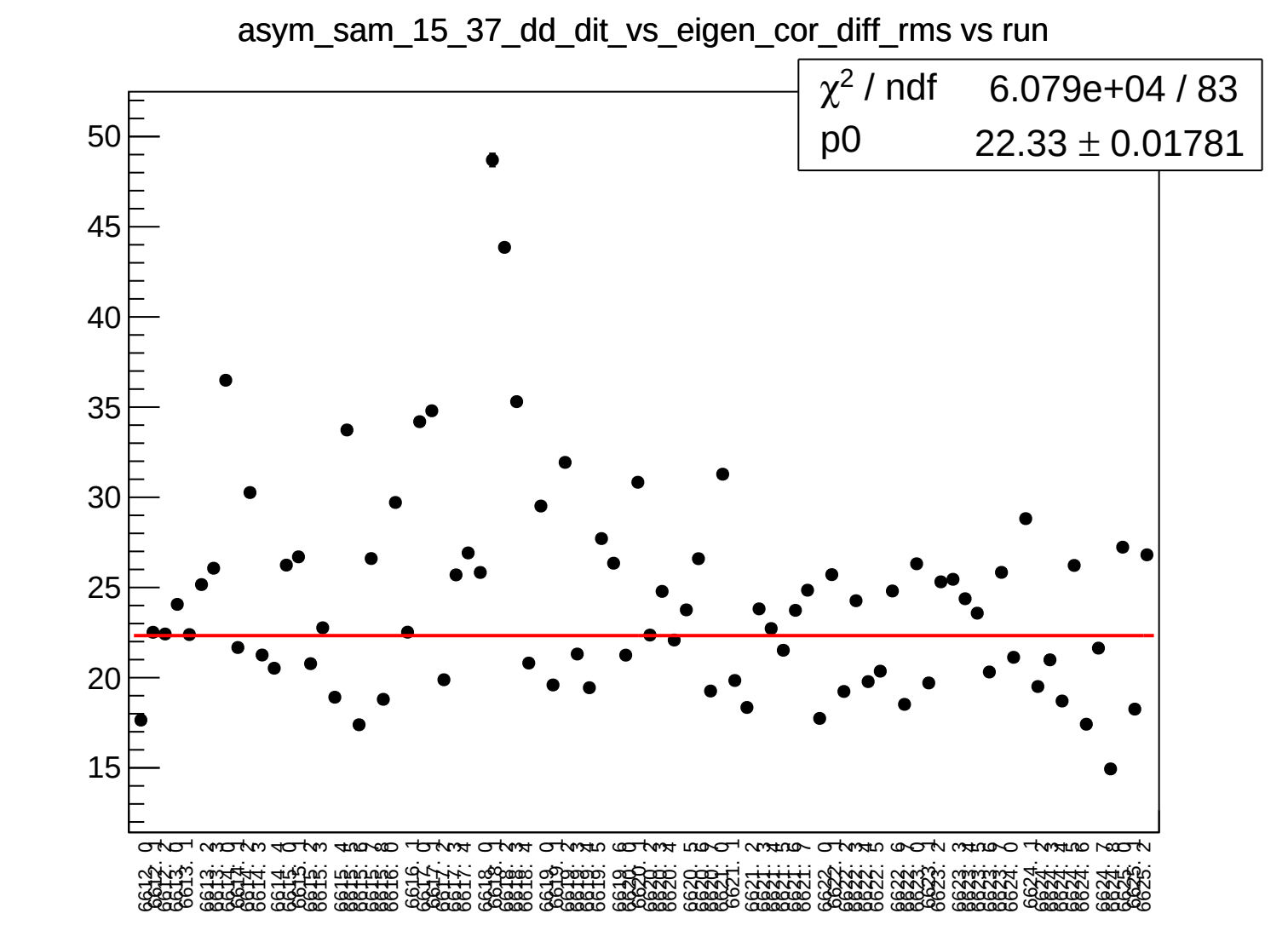

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.795e+05 / 83
p0 9.419e−12 ± 1.085e−14
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

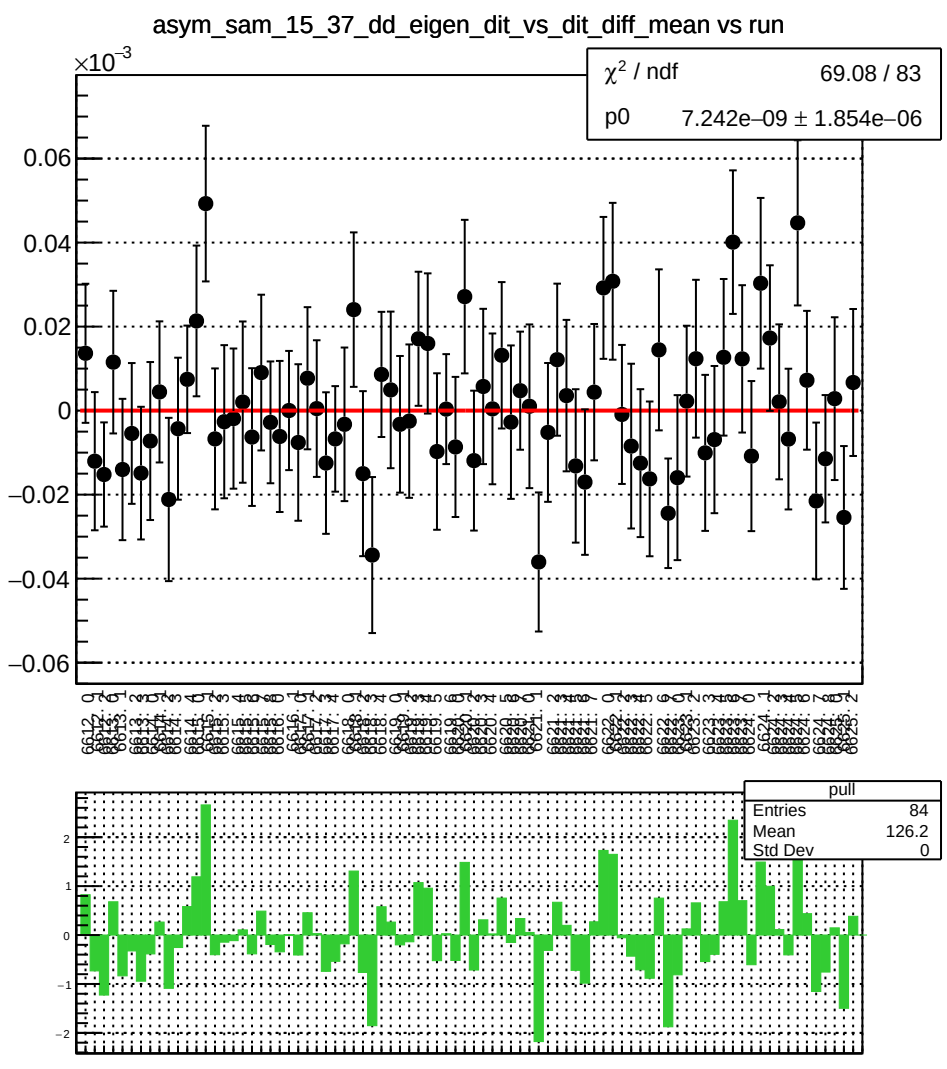

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.58 / 83
p0 −0.03094 ± 0.02519
pull
Entries 84
Mean −52.83
Std Dev 0

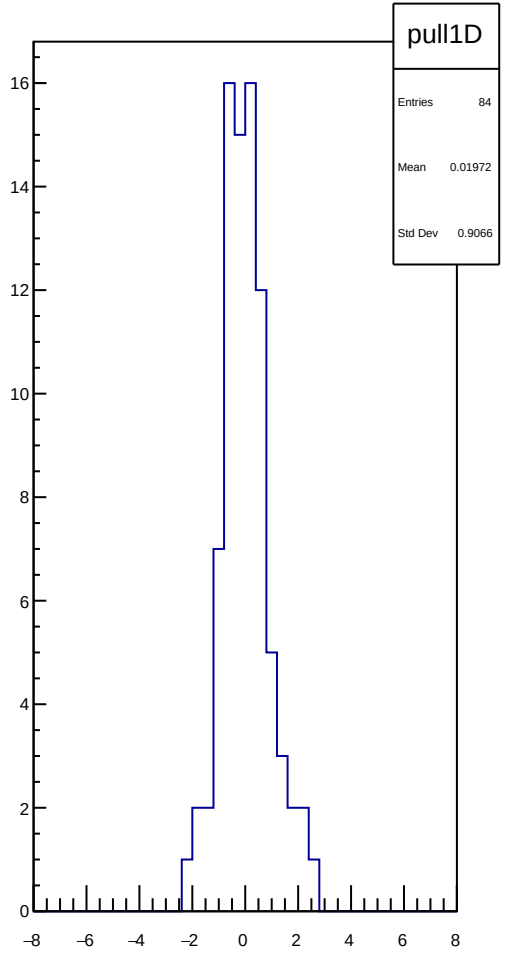

pull1D
Entries 84
Mean −0.02301
Std Dev 0.942

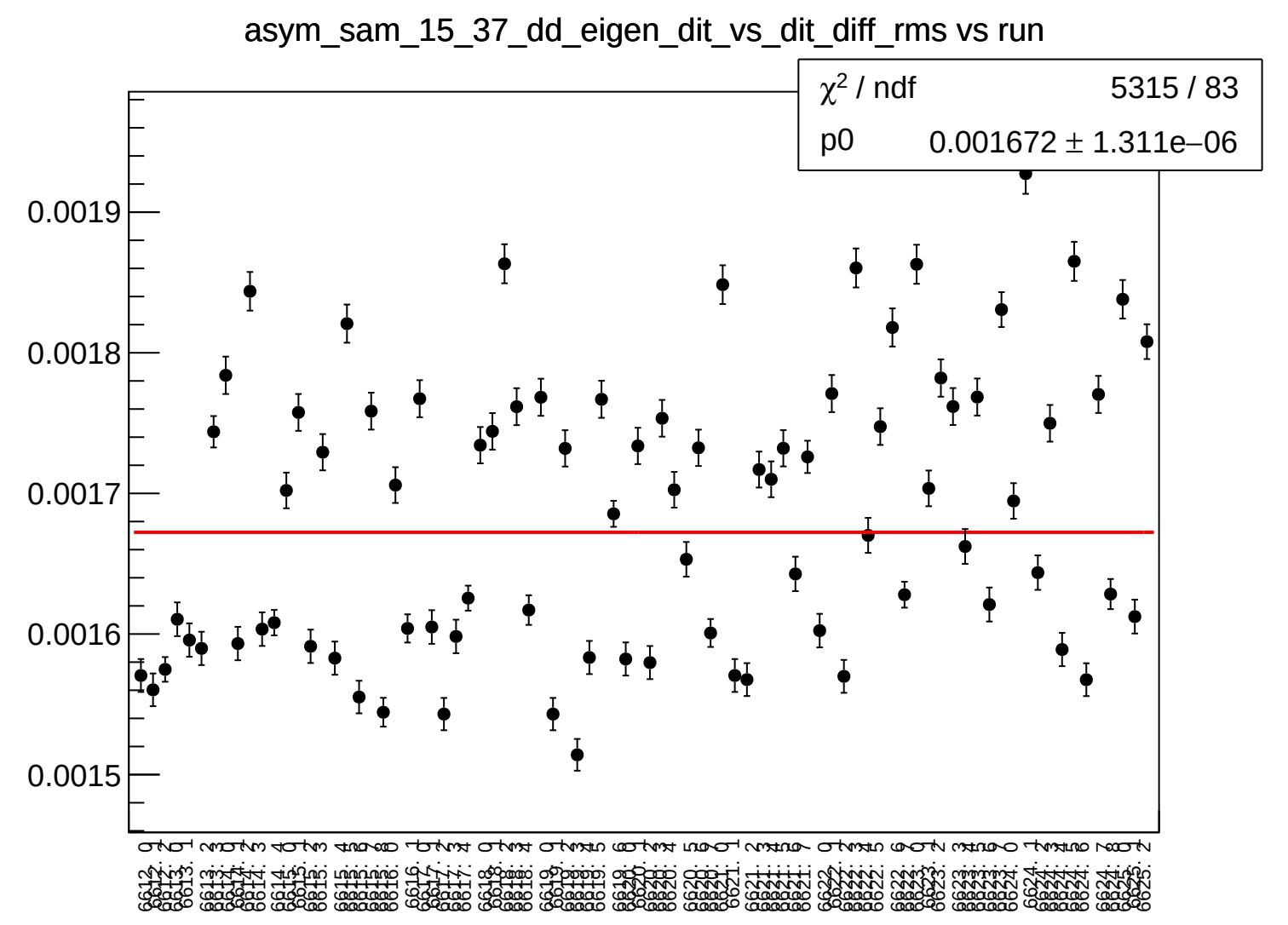

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.079e+04 / 83
p0 22.33 ± 0.01781
50
45
40
35
30
25
20
15

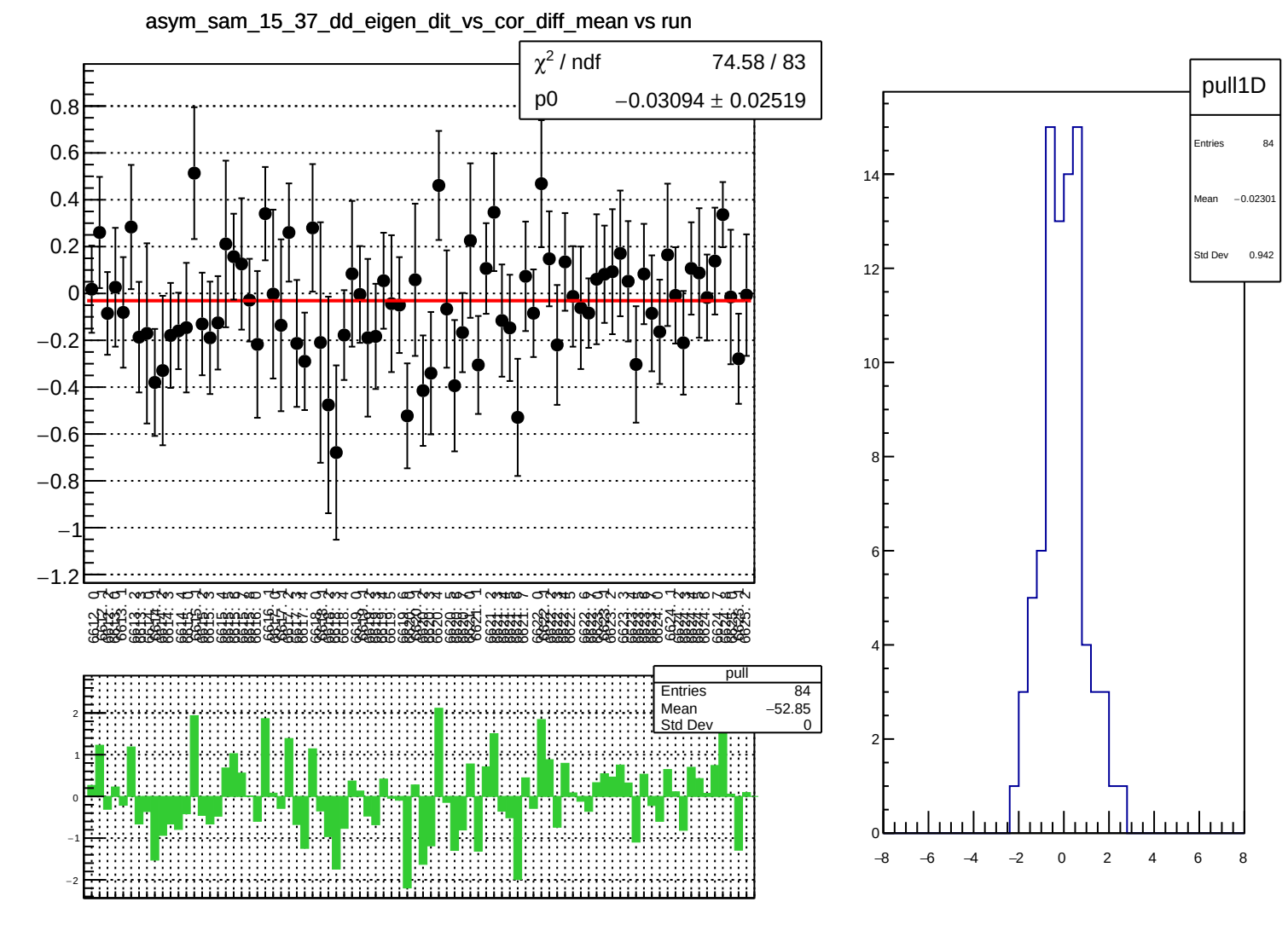

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.58 / 83
p0 −0.03094 ± 0.02519
pull
Entries 84
Mean −52.83
Std Dev 0
pull1D
Entries 84
Mean −0.02301
Std Dev 0.942

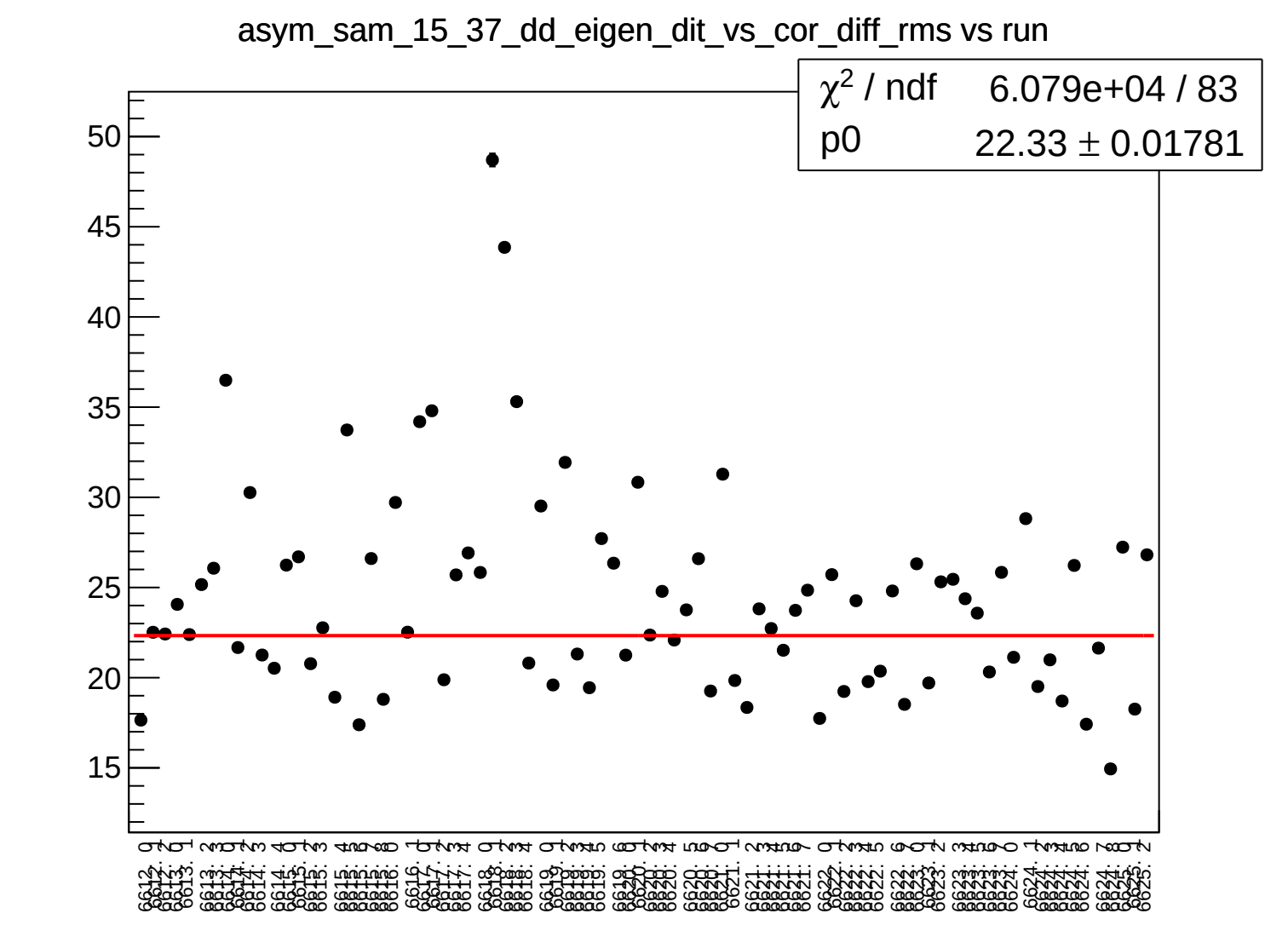

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.079e+04 / 83
p0 22.33 ± 0.01781
50
45
40
35
30
25
20
15

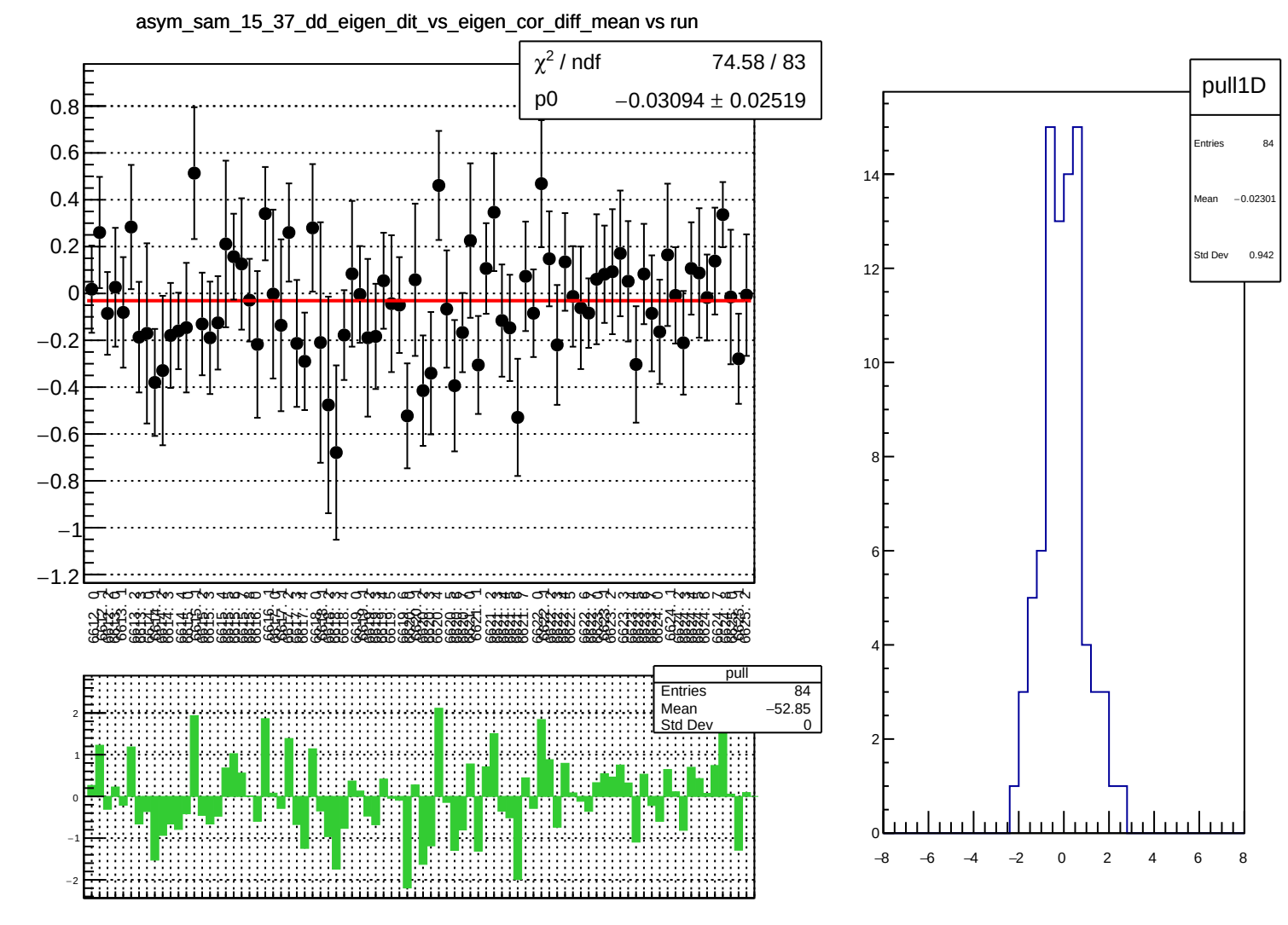

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.08 / 83
p0 7.242e−09 ± 1.854e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 84
Mean 126.2
Std Dev 0
2
1
0
−1
−2

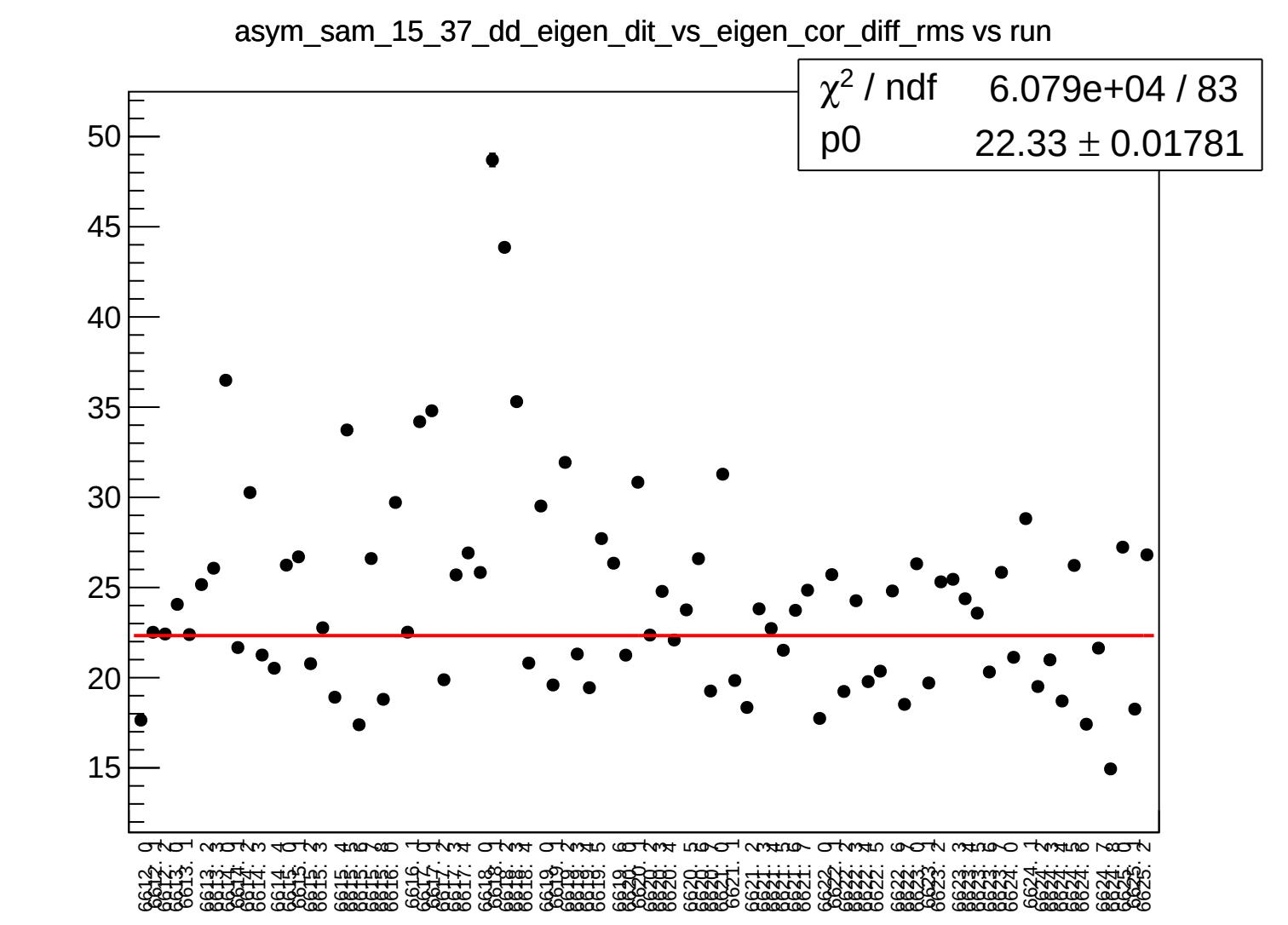

pull1D
Entries 84
Mean 0.01972
Std Dev 0.9066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

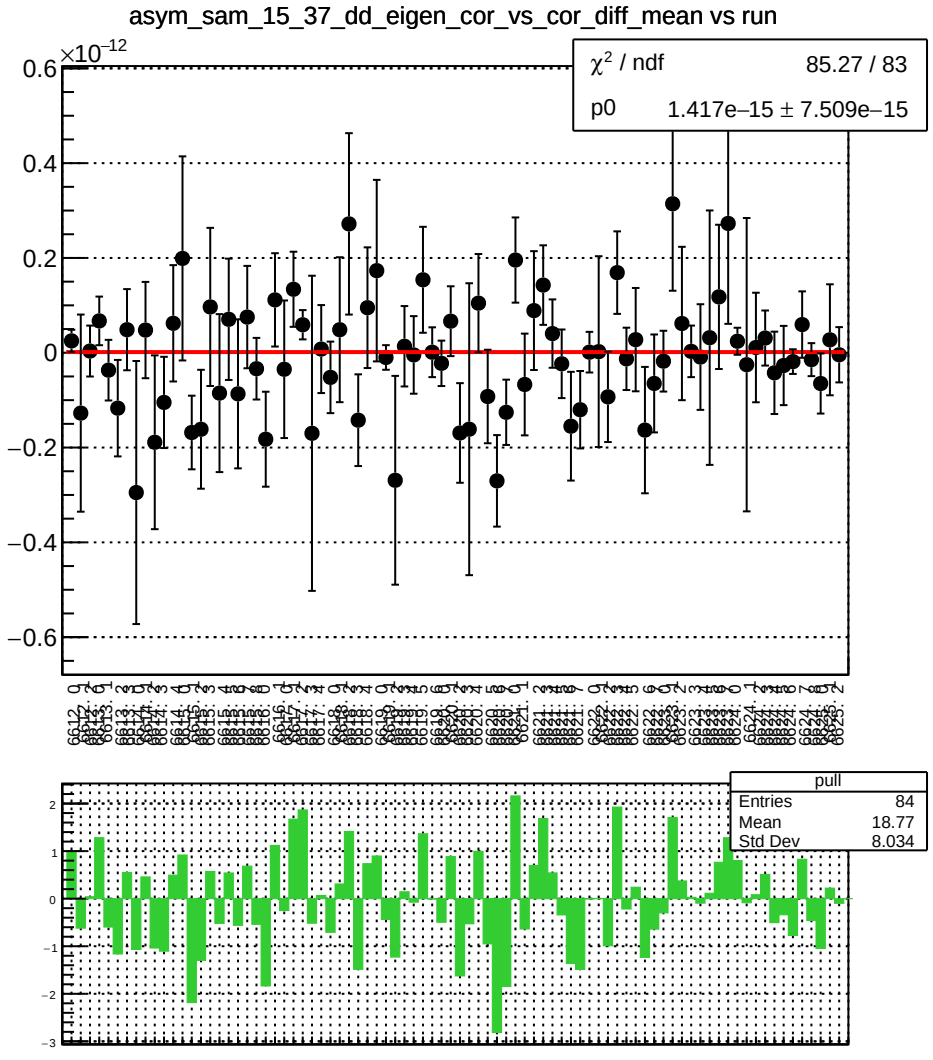

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5315 / 83
p0 0.001672 ± 1.311e−06
0.0019
0.0018
0.0017
0.0016
0.0015

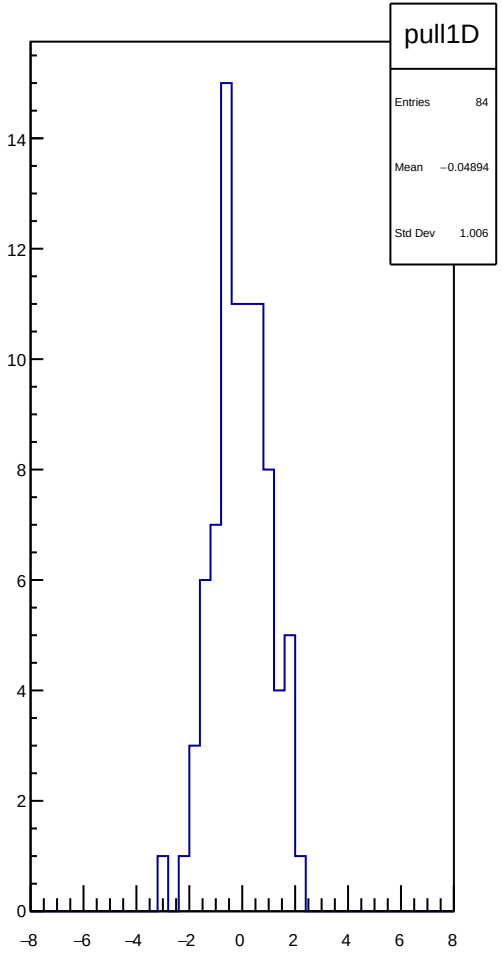

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.58 / 83
p0 −0.03094 ± 0.02519
pull
Entries 84
Mean −52.85
Std Dev 0
pull1D
Entries 84
Mean −0.02301
Std Dev 0.942

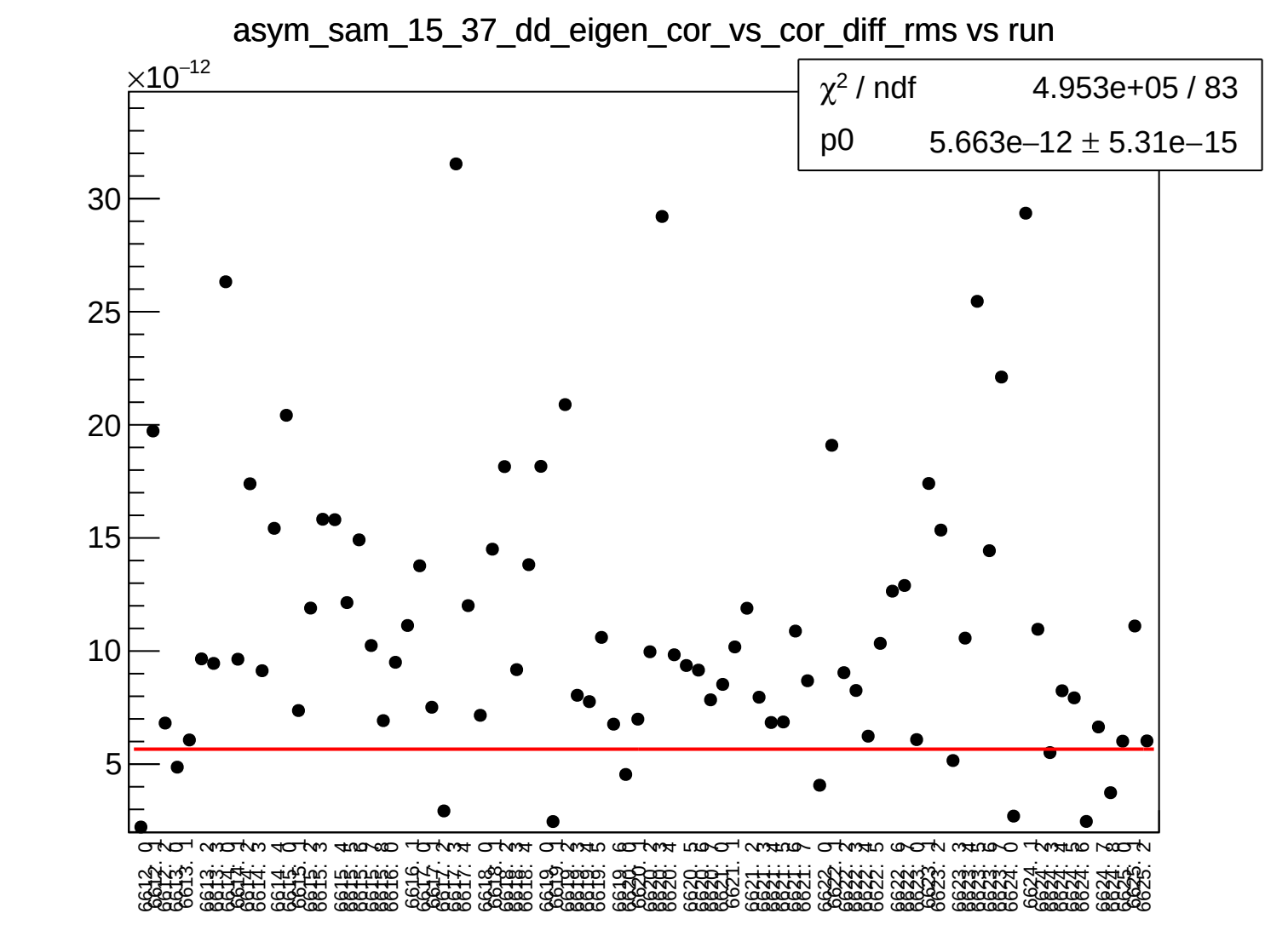

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.079e+04 / 83
p0 22.33 ± 0.01781
50
45
40
35
30
25
20
15

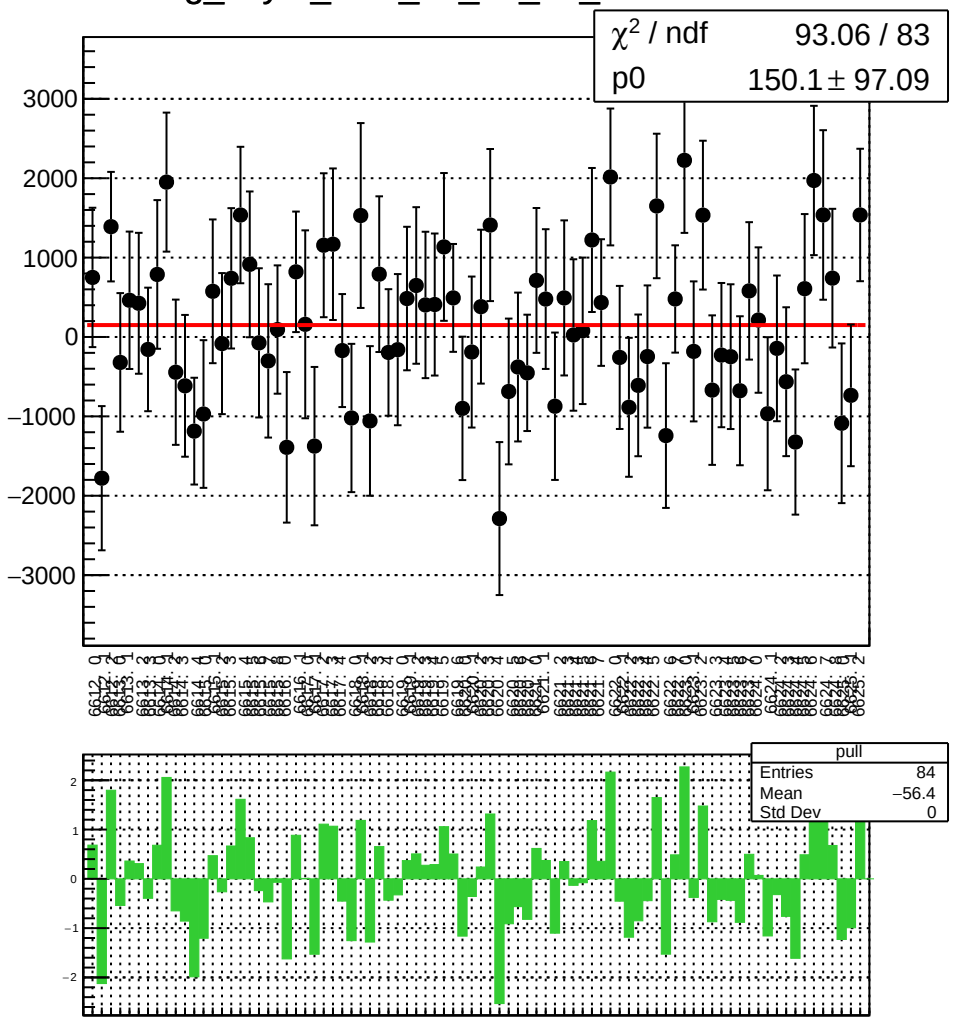

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.58 / 83
p0 −0.03094 ± 0.02519
pull
Entries 84
Mean −52.85
Std Dev 0
pull1D
Entries 84
Mean −0.02301
Std Dev 0.942

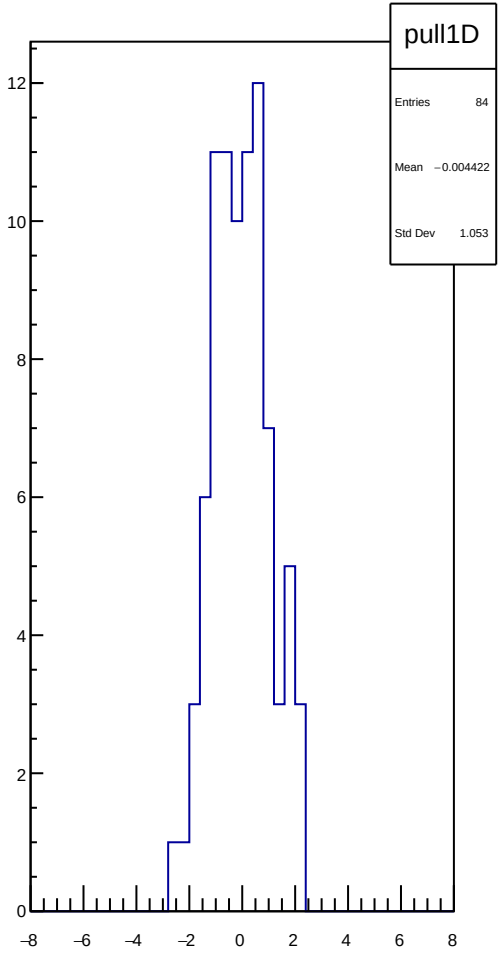

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 6.079e+04 / 83
p0 22.33 ± 0.01781
50
45
40
35
30
25
20
15

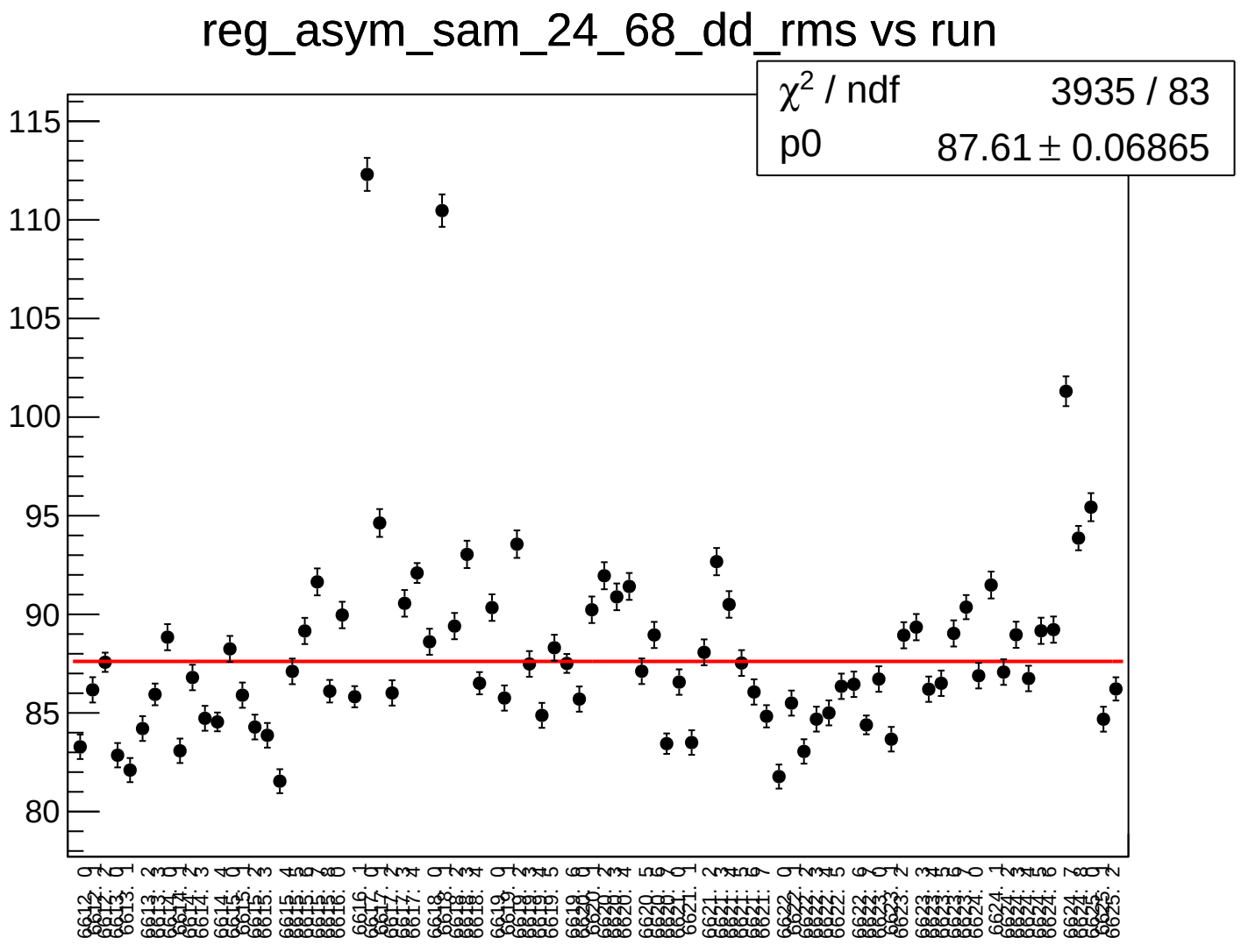

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.27 / 83
p0 1.417e−15 ± 7.509e−15
pull
Entries 84
Mean 18.77
Std Dev 8.034

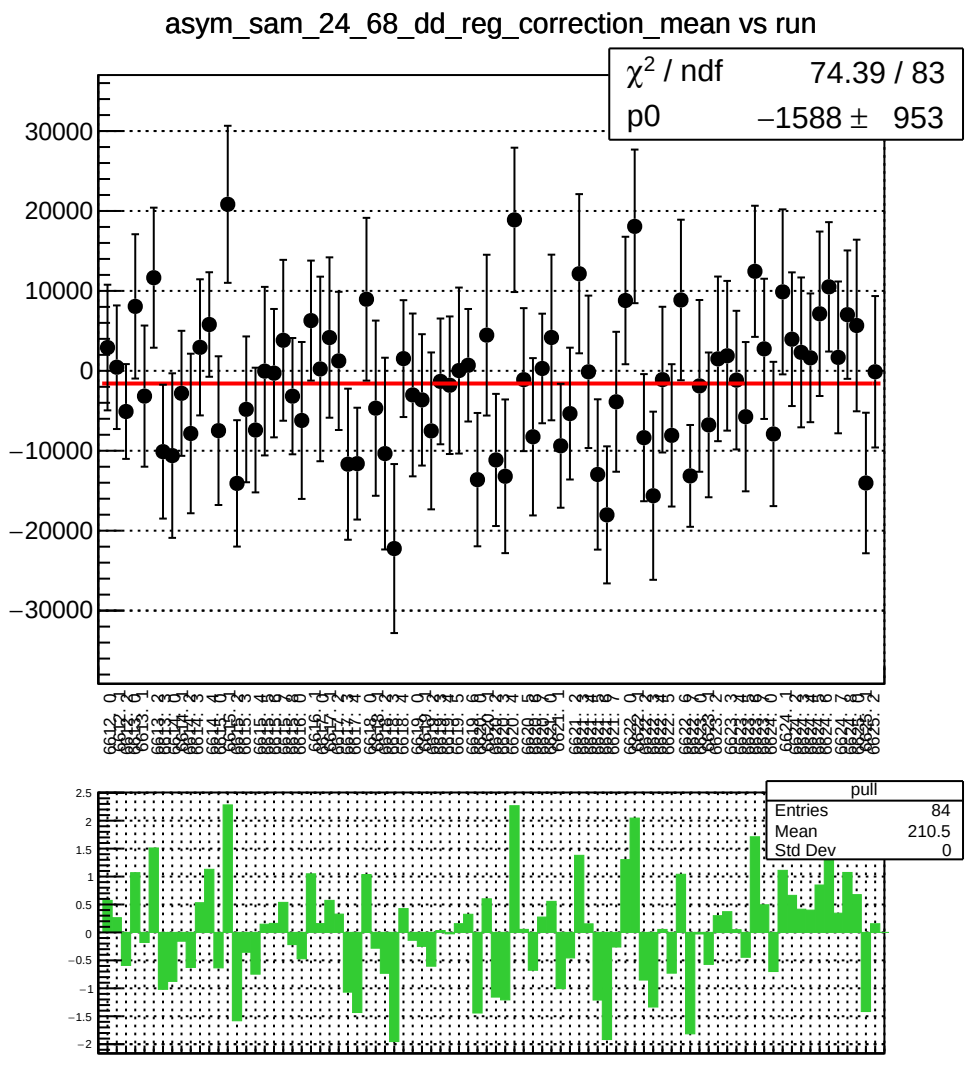

pull1D
Entries 84
Mean −0.04894
Std Dev 1.006

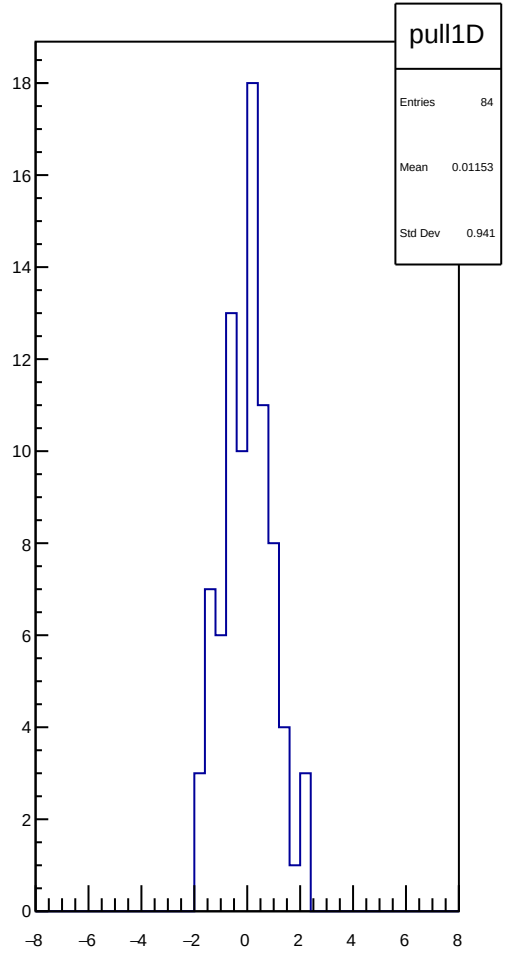

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.953e+05 / 83
p0 5.663e−12 ± 5.31e−15
30
25
20
15
10
5

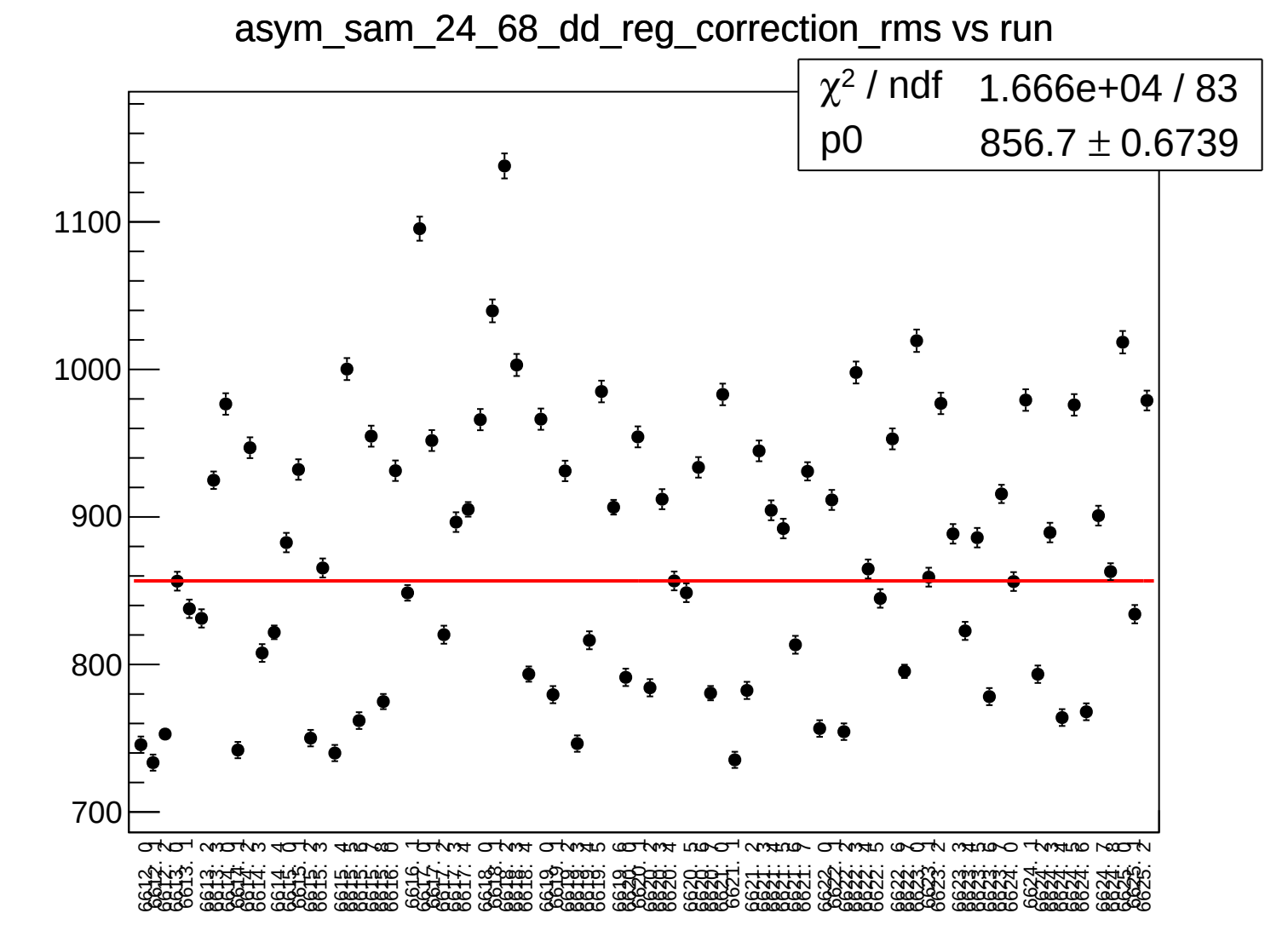

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 93.06 / 83
p0 150.1 ± 97.09
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −56.4
Std Dev 0
2
1
0
−1
−2

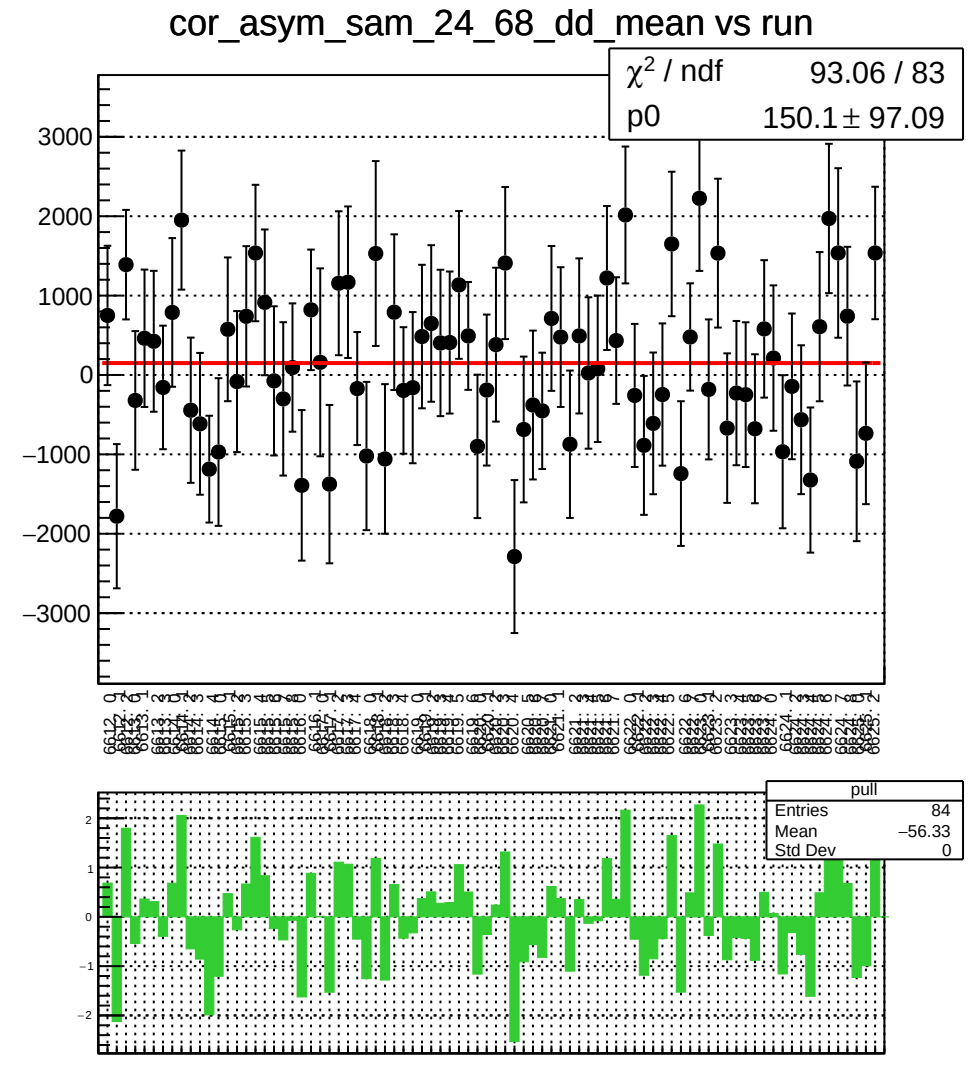

pull1D
Entries 84
Mean −0.004422
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

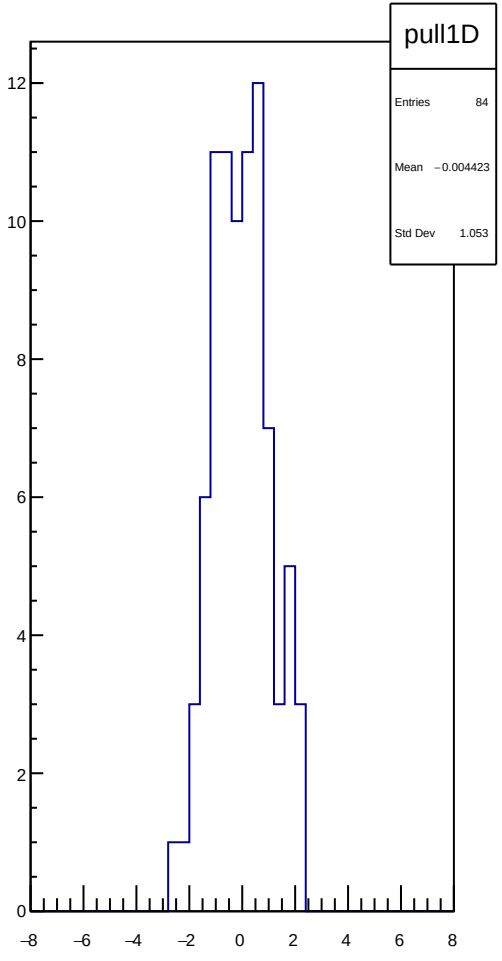

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 3935 / 83
p0 87.61 ± 0.06865
115
110
105
100
95
90
85
80

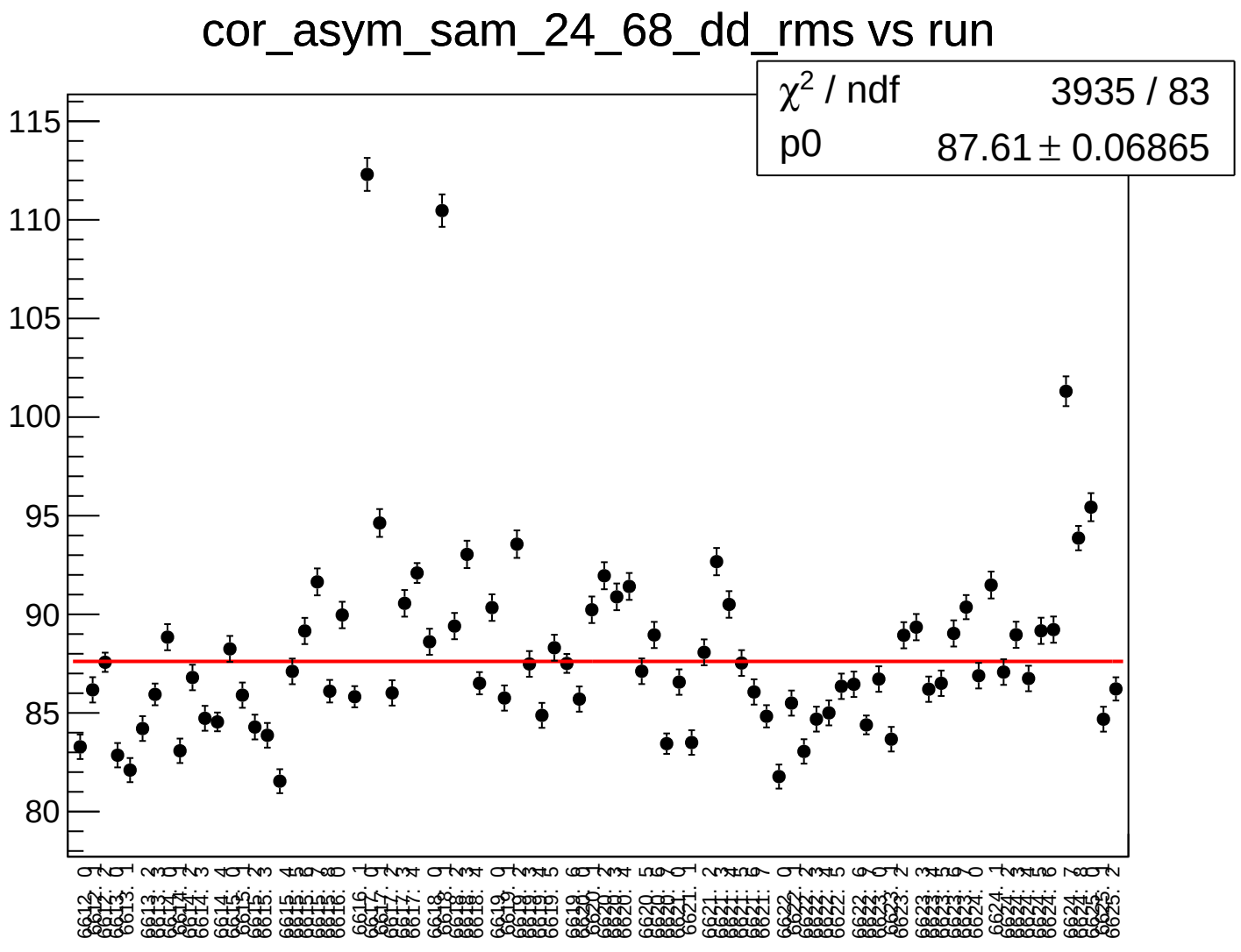

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 74.39 / 83
p0 −1588 ± 953
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 210.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

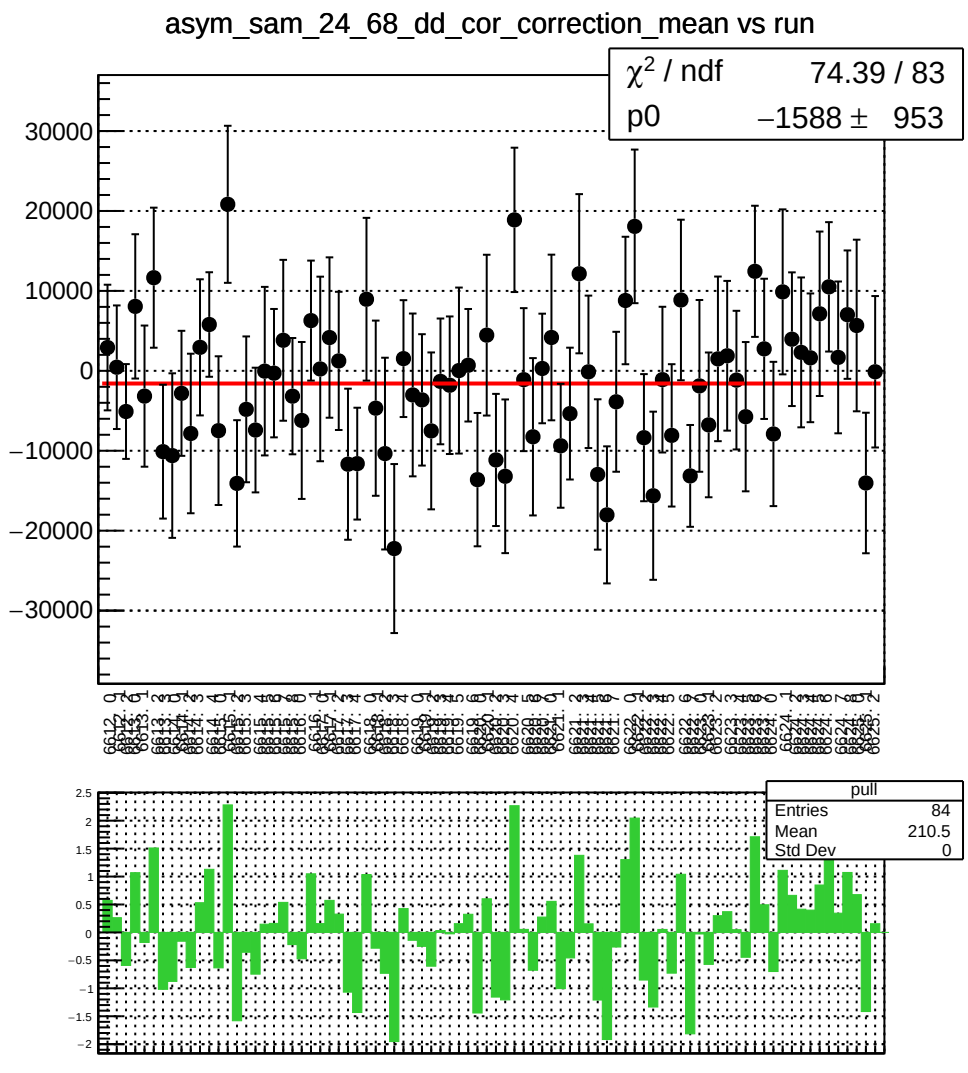

pull1D
Entries 84
Mean 0.01153
Std Dev 0.941
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

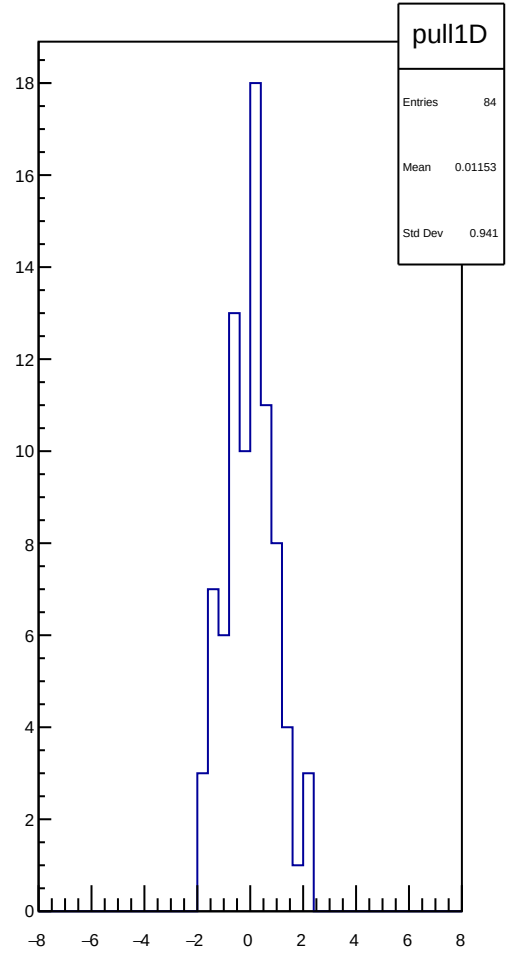

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 1.666e+04 / 83
p0 856.7 ± 0.6739
1100
1000
900
800
700

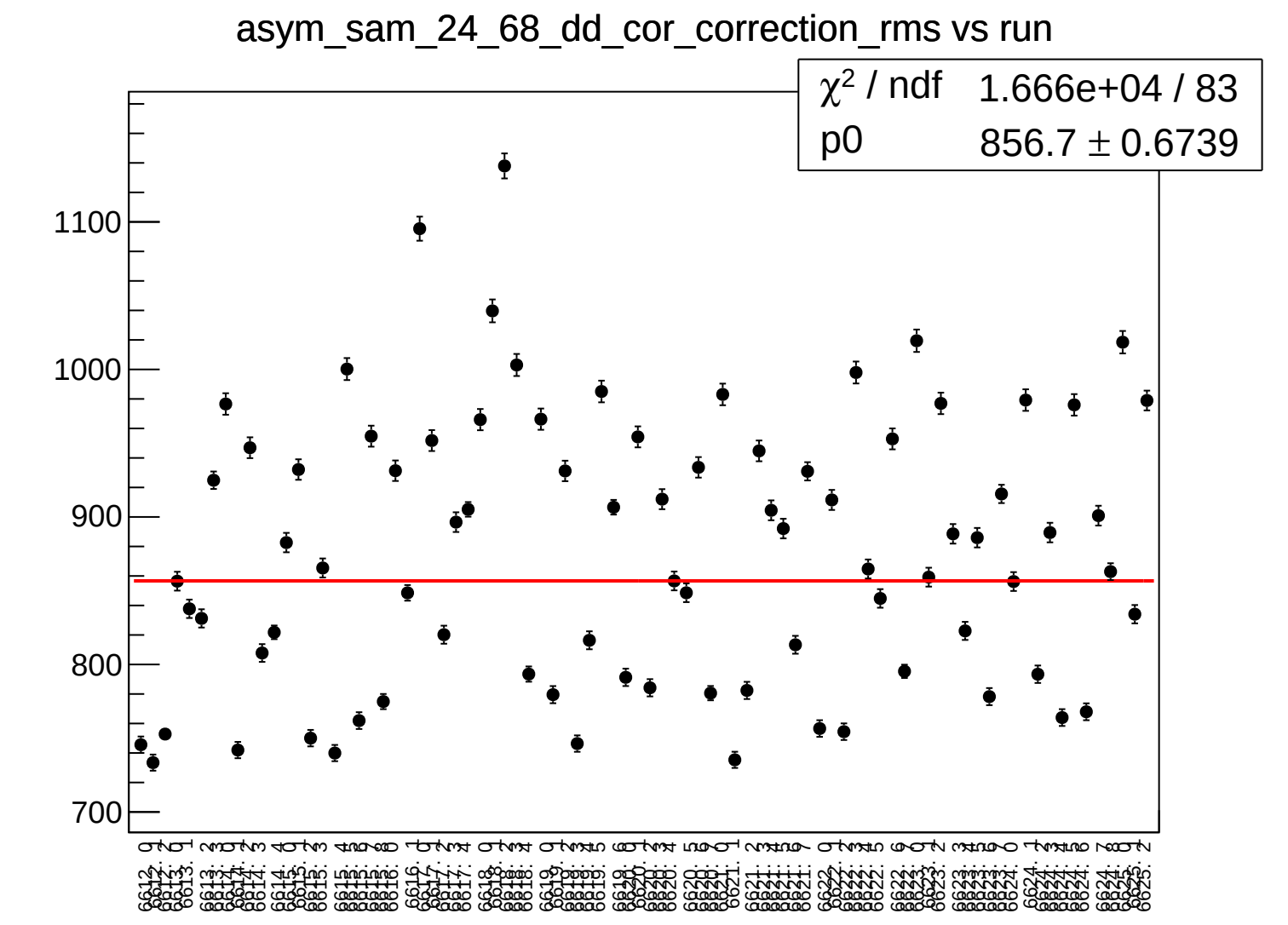

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 93.06 / 83
p0 150.1 ± 97.09
pull
Entries 84
Mean −56.33
Std Dev 0

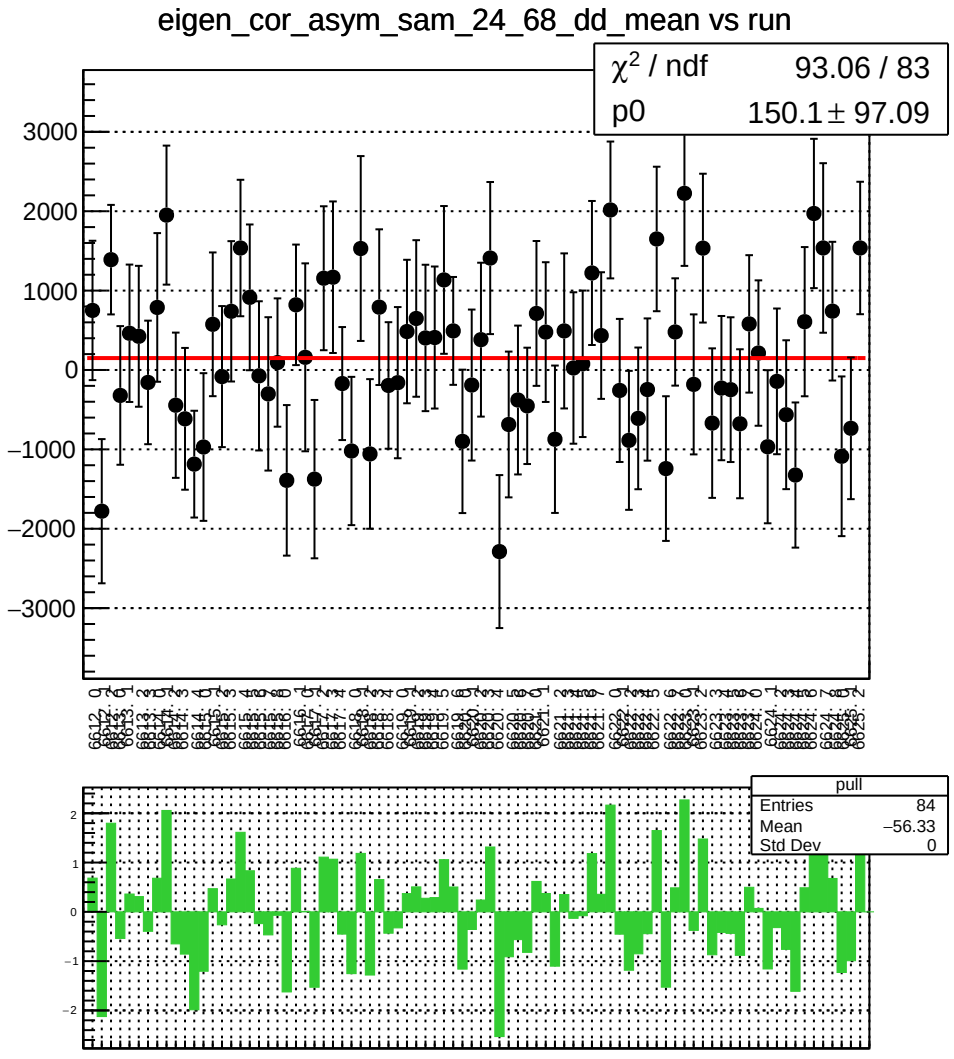

pull1D
Entries 84
Mean −0.004423
Std Dev 1.053

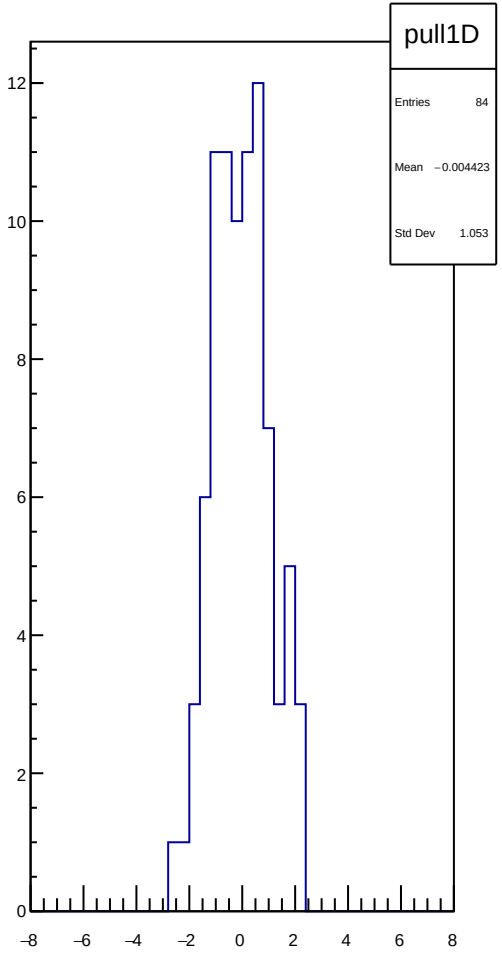

cor_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 3935 / 83
p0 87.61 ± 0.06865
115
110
105
100
95
90
85
80

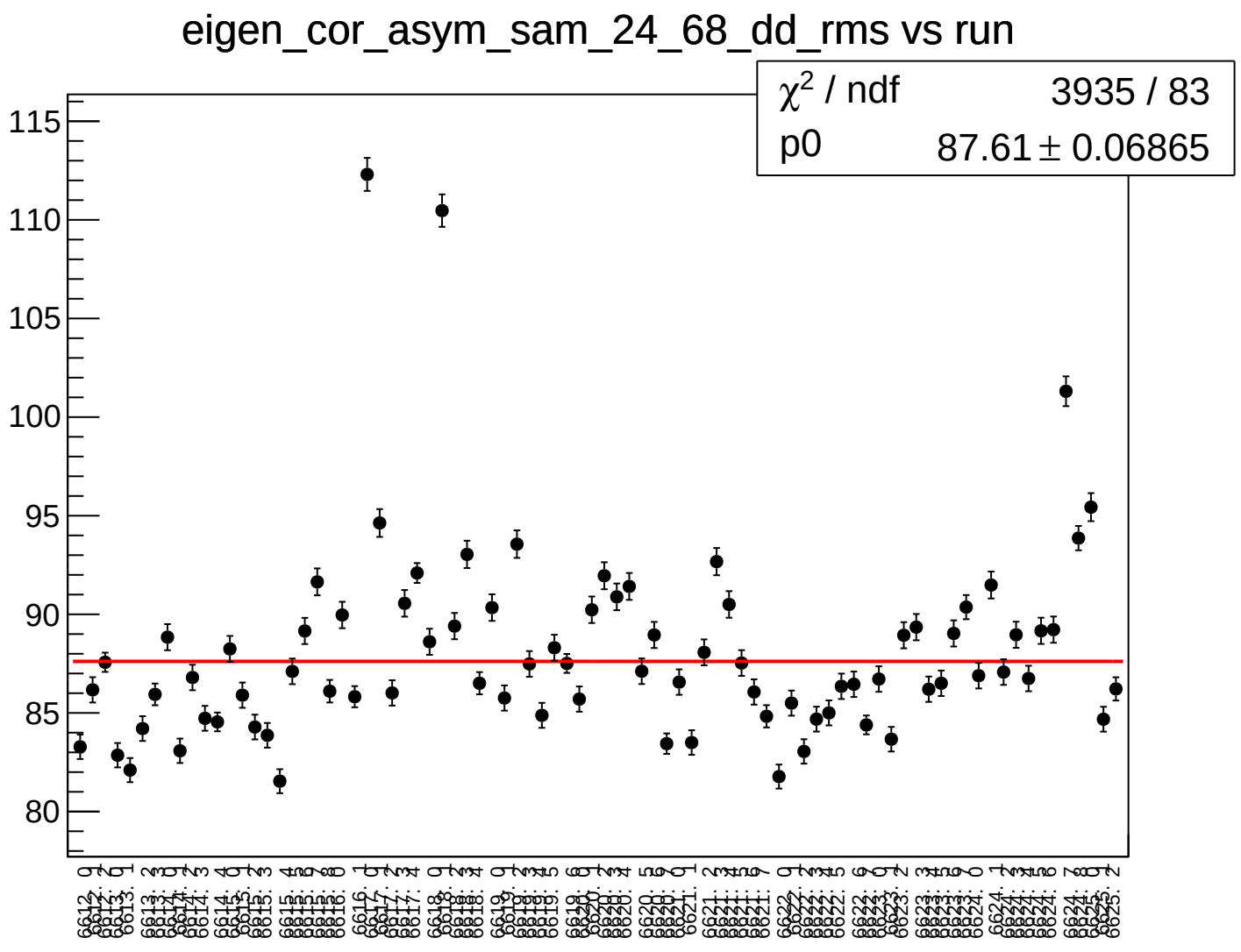

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 74.39 / 83
p0 −1588 ± 953
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 210.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

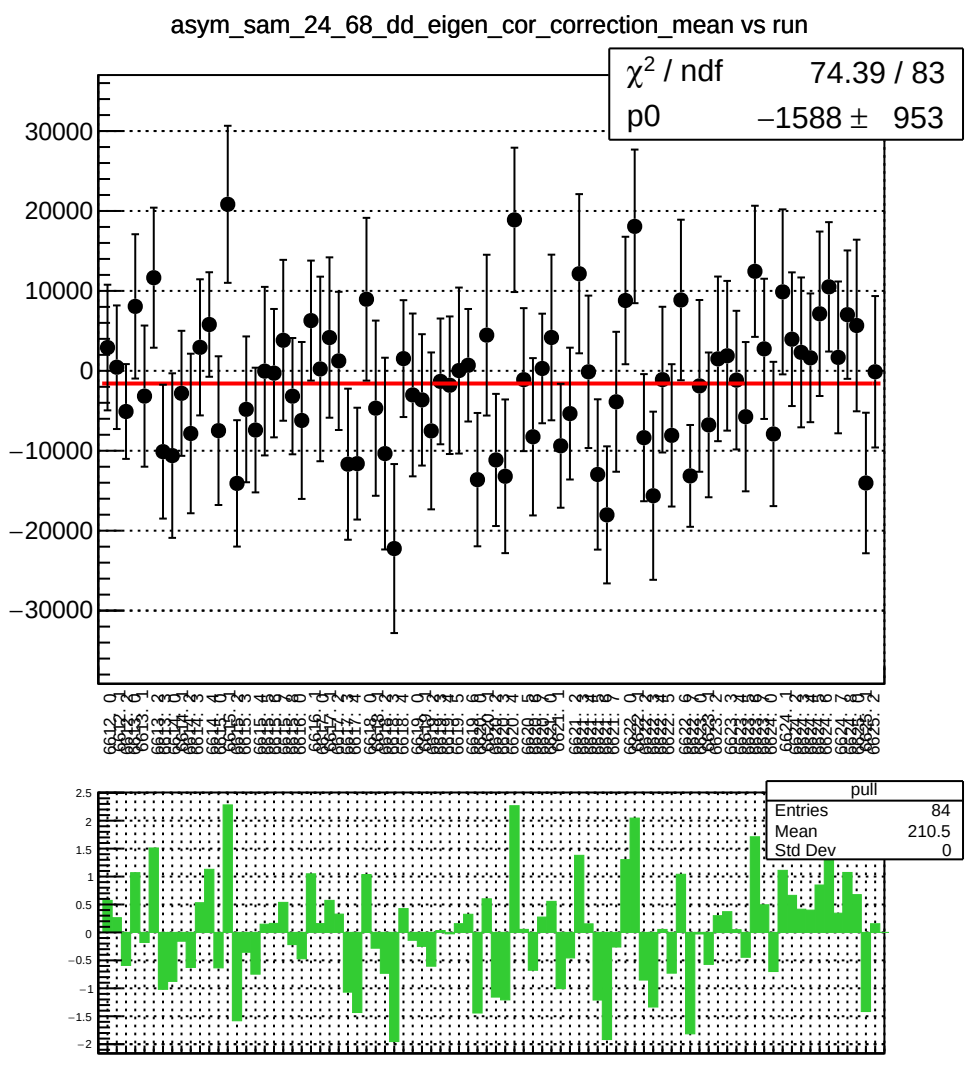

pull1D
Entries 84
Mean 0.01153
Std Dev 0.941
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

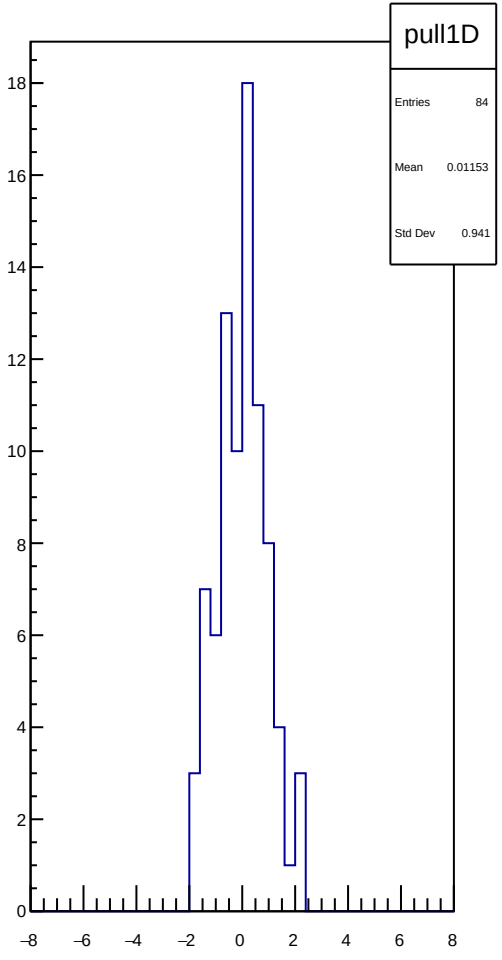

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 1.666e+04 / 83
p0 856.7 ± 0.6739
1100
1000
900
800
700

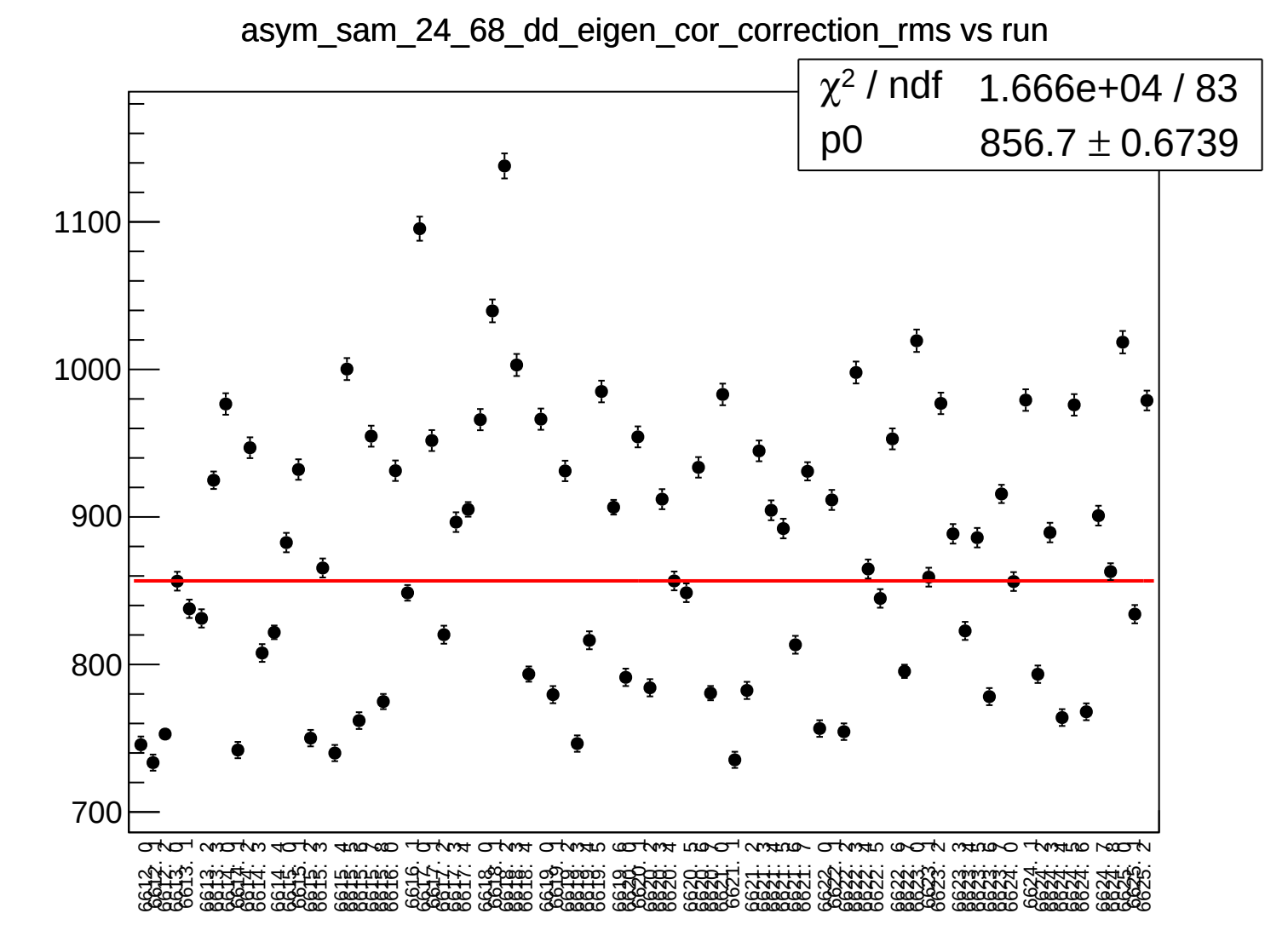

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 93.06 / 83
p0 150.1 ± 97.09
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −56.33
Std Dev 0
2
1
0
−1
−2

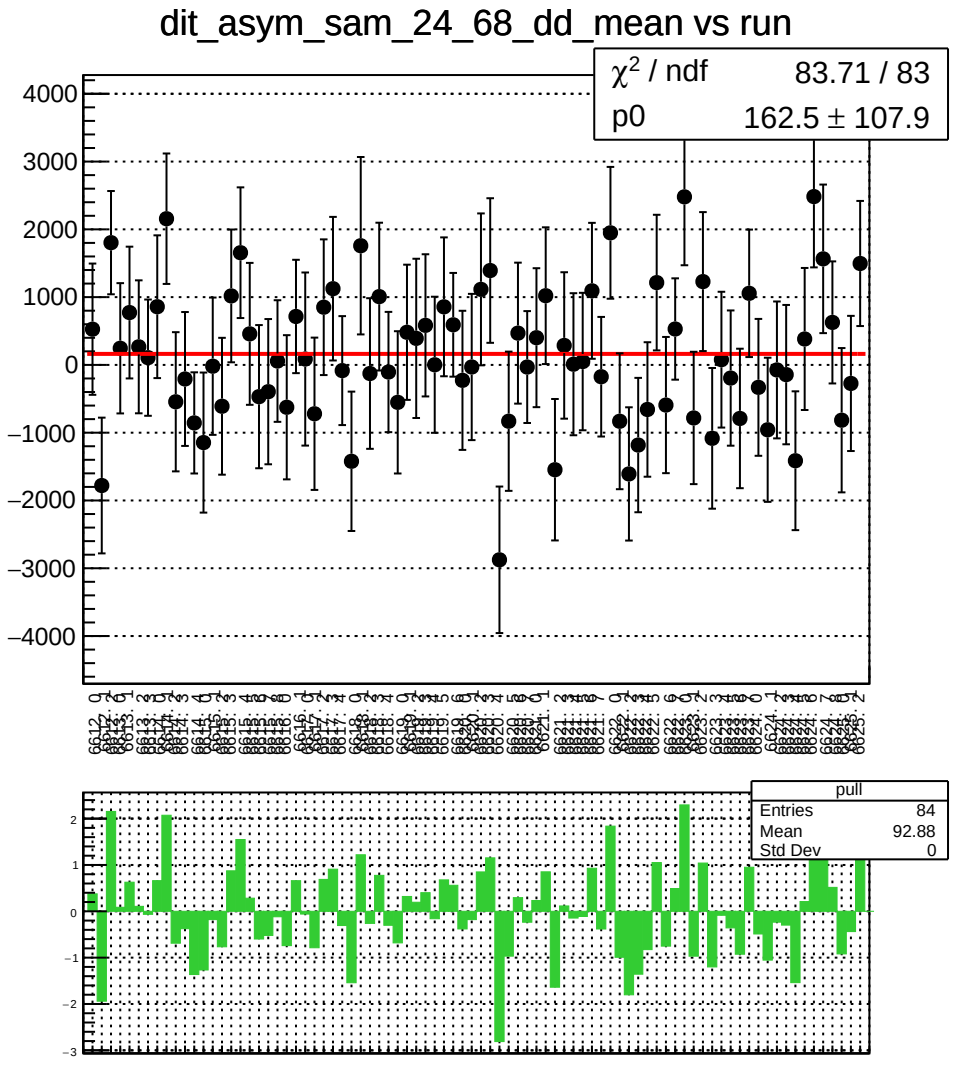

pull1D
Entries 84
Mean −0.004423
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

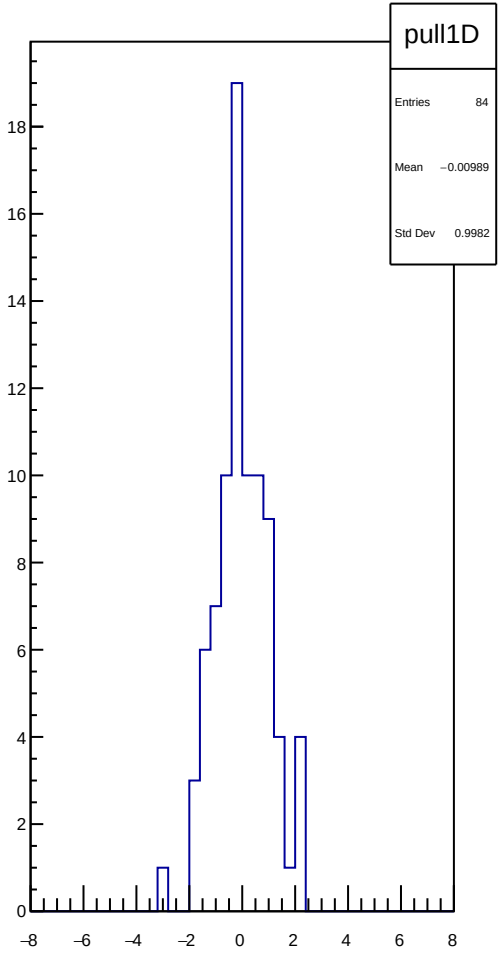

eigen_cor_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 3935 / 83
p0 87.61 ± 0.06865
115
110
105
100
95
90
85
80

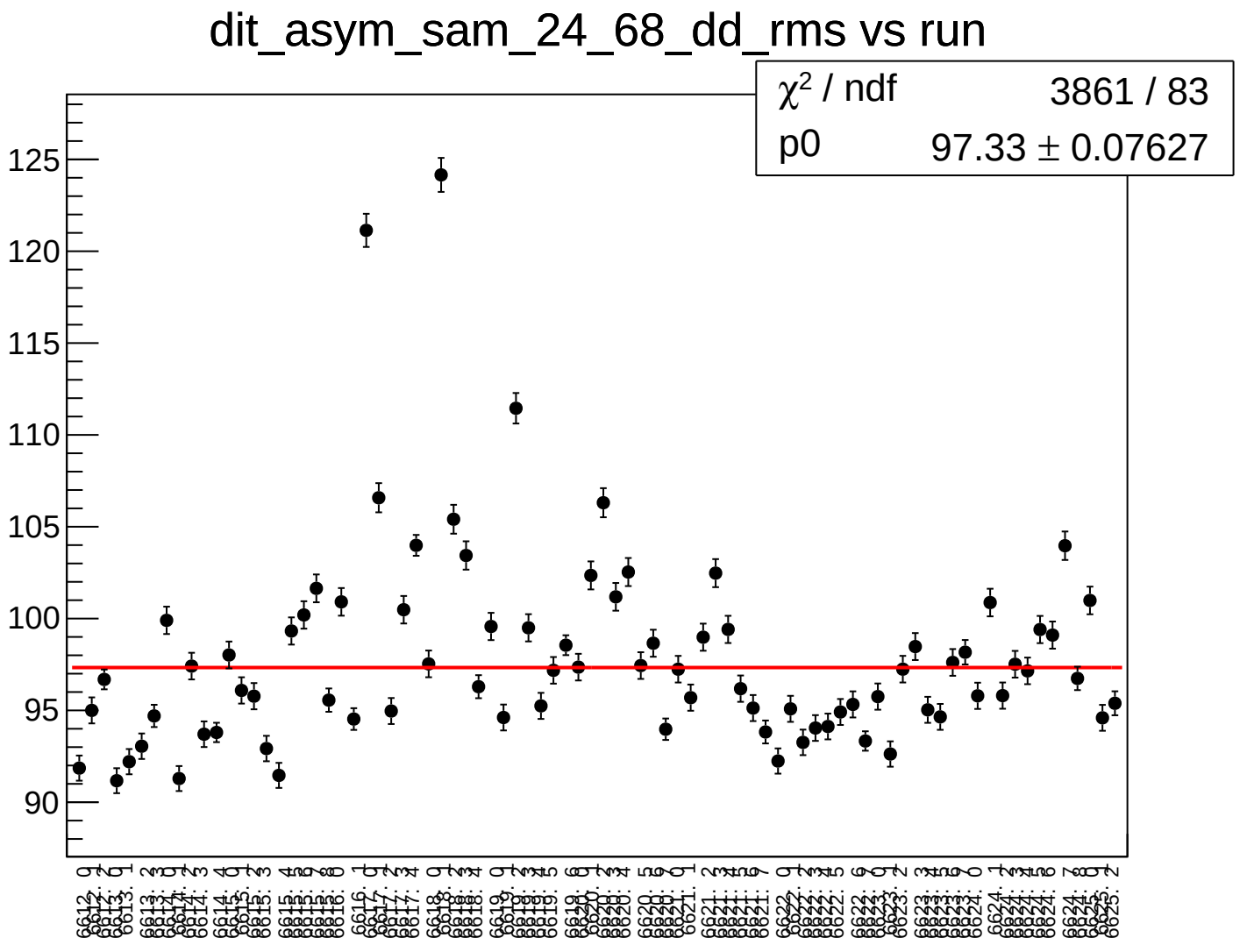

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.39 / 83
p0 −1588 ± 953
pull
Entries 84
Mean 210.5
Std Dev 0

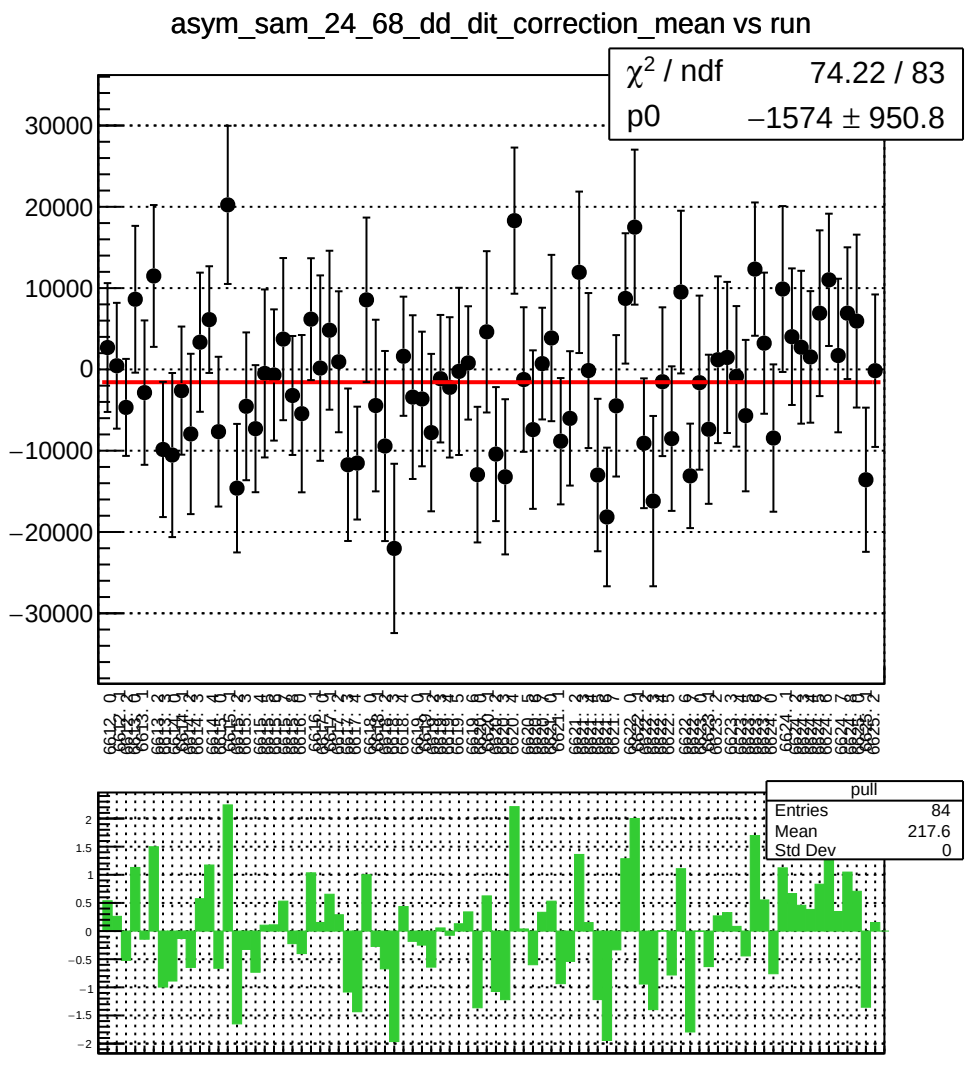

pull1D
Entries 84
Mean 0.01153
Std Dev 0.941

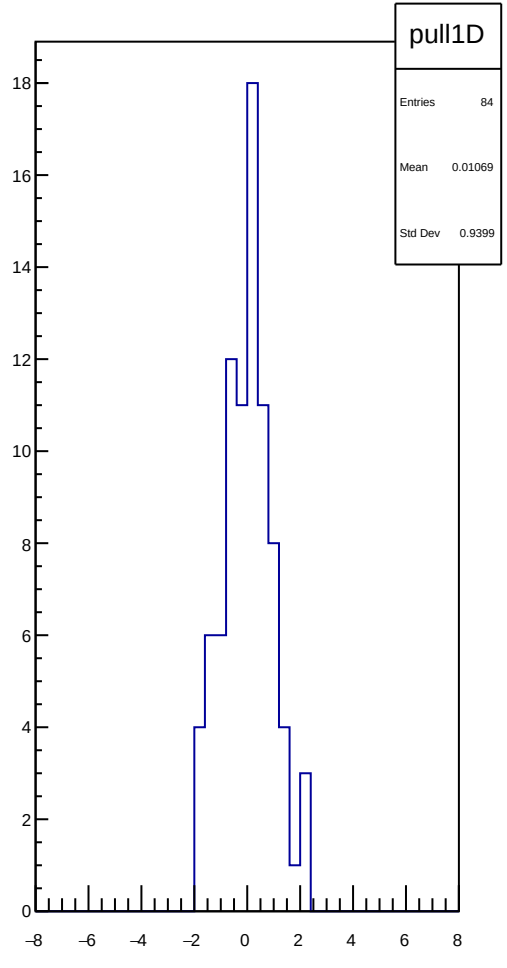

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.666e+04 / 83
p0 856.7 ± 0.6739
1100
1000
900
800
700

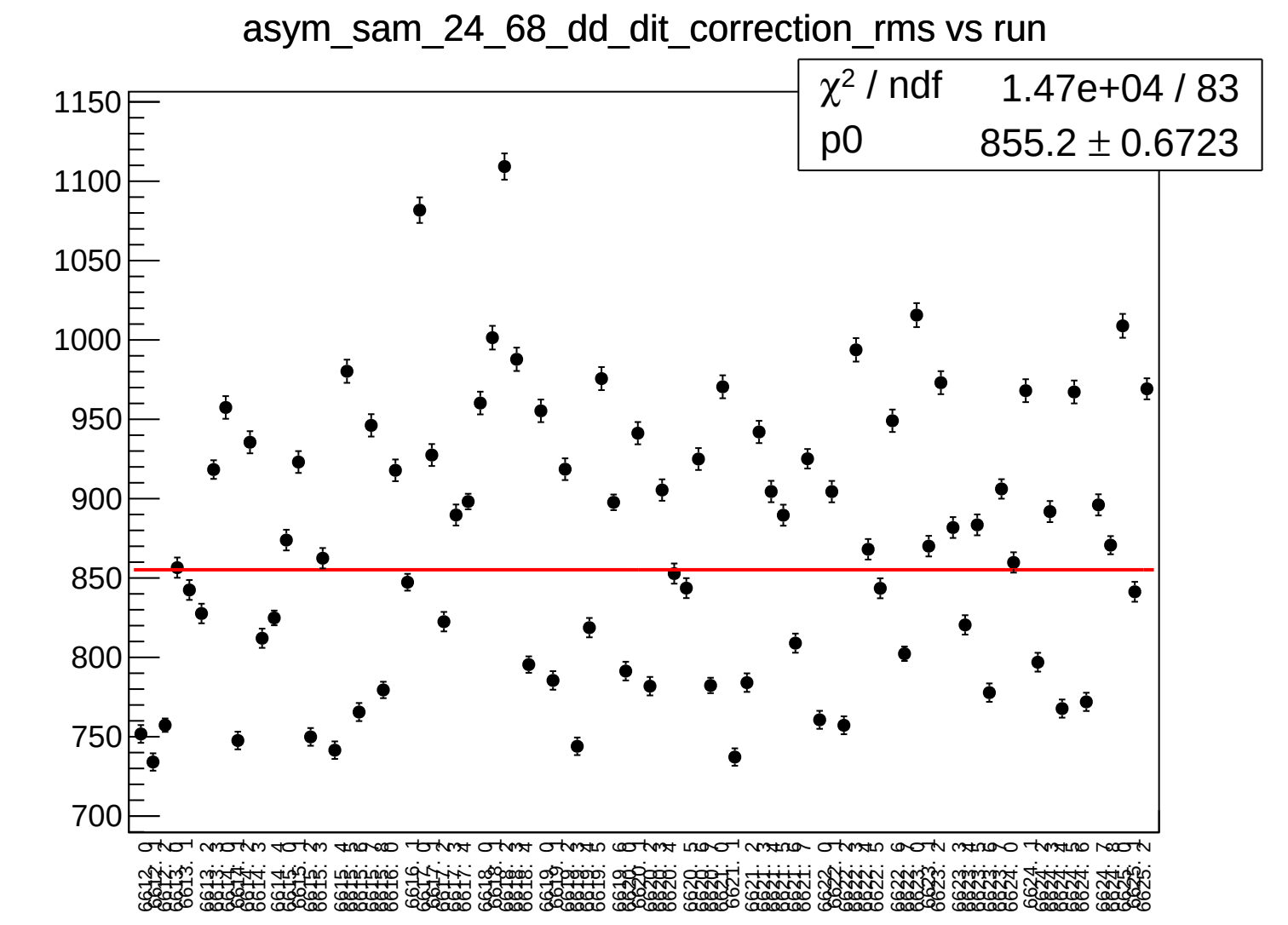

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 83.71 / 83
p0 162.5 ± 107.9
pull
Entries 84
Mean 92.88
Std Dev 0

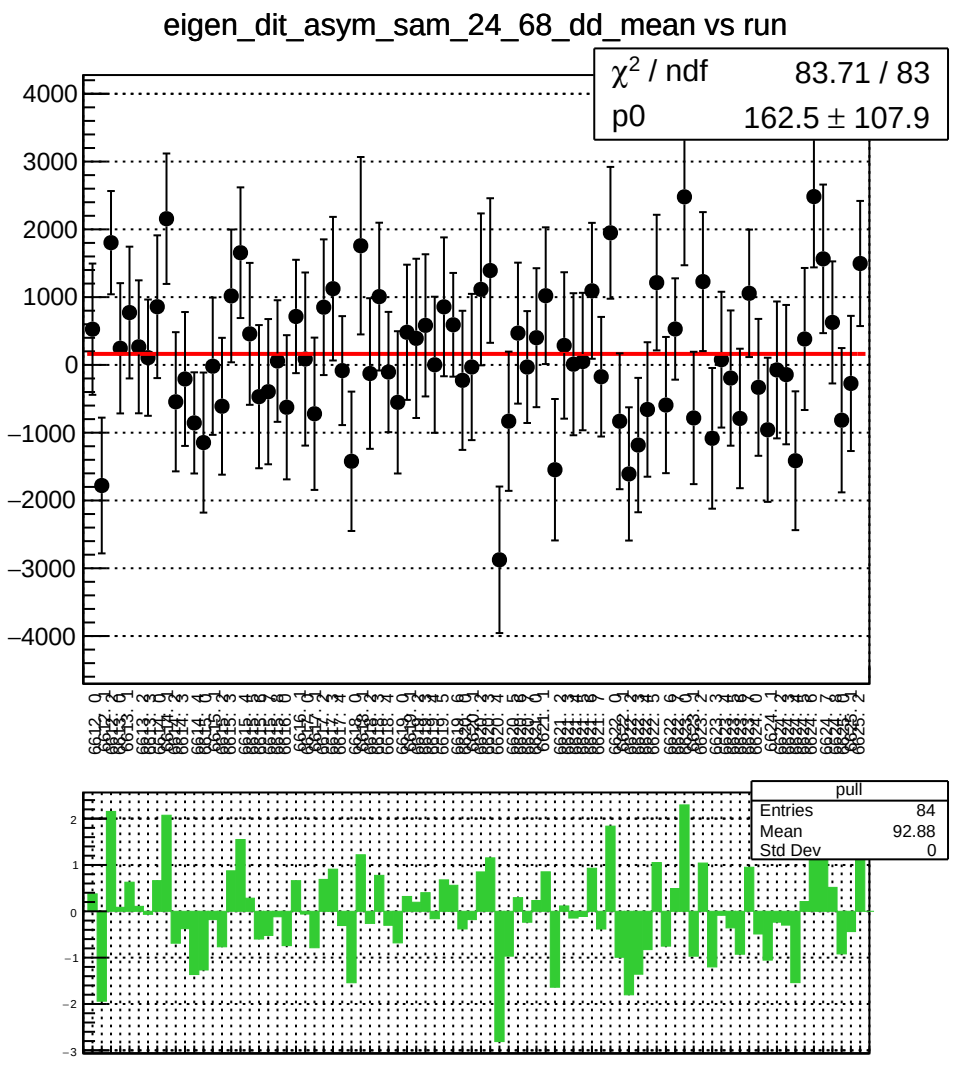

pull1D
Entries 84
Mean −0.00989
Std Dev 0.9982

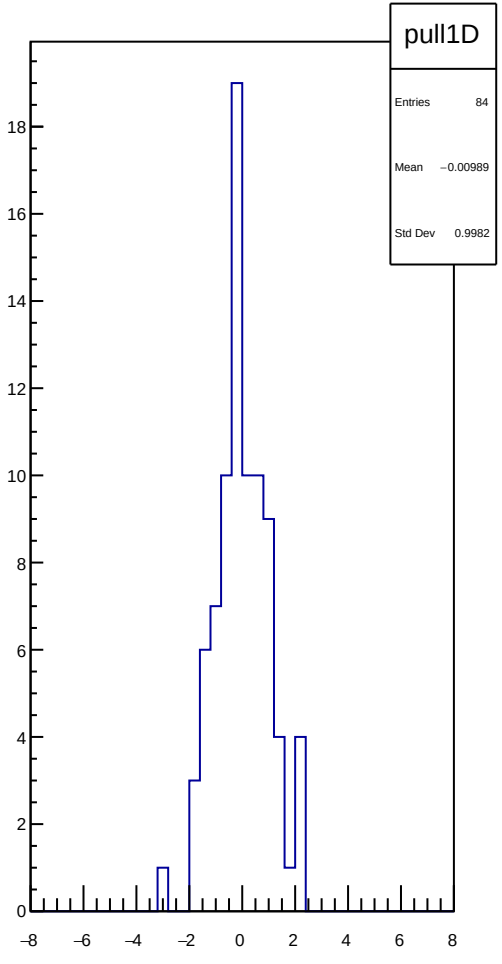

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 3861 / 83
p0 97.33 ± 0.07627
125
120
115
110
105
100
95
90

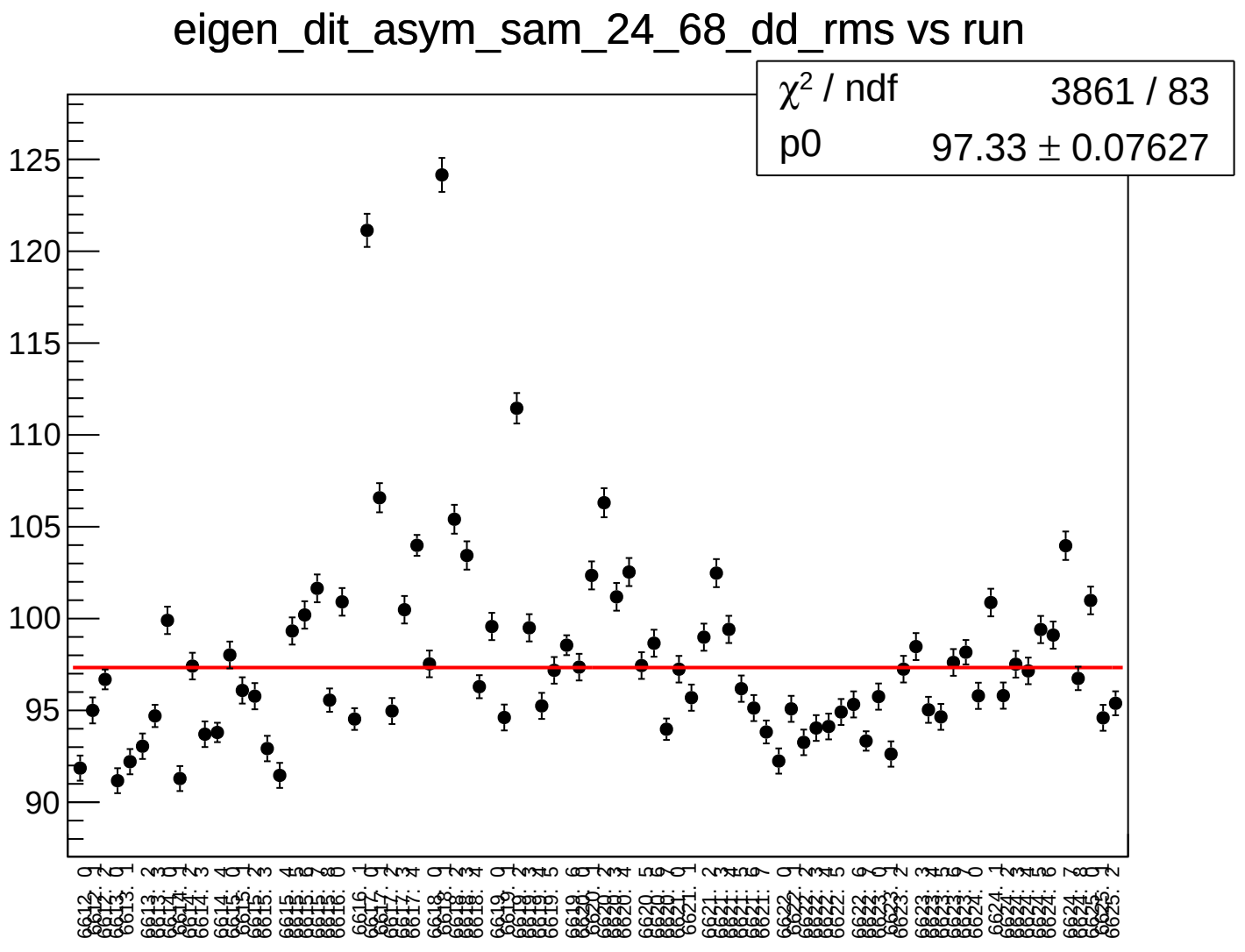

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 74.22 / 83
p0 −1574 ± 950.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 217.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

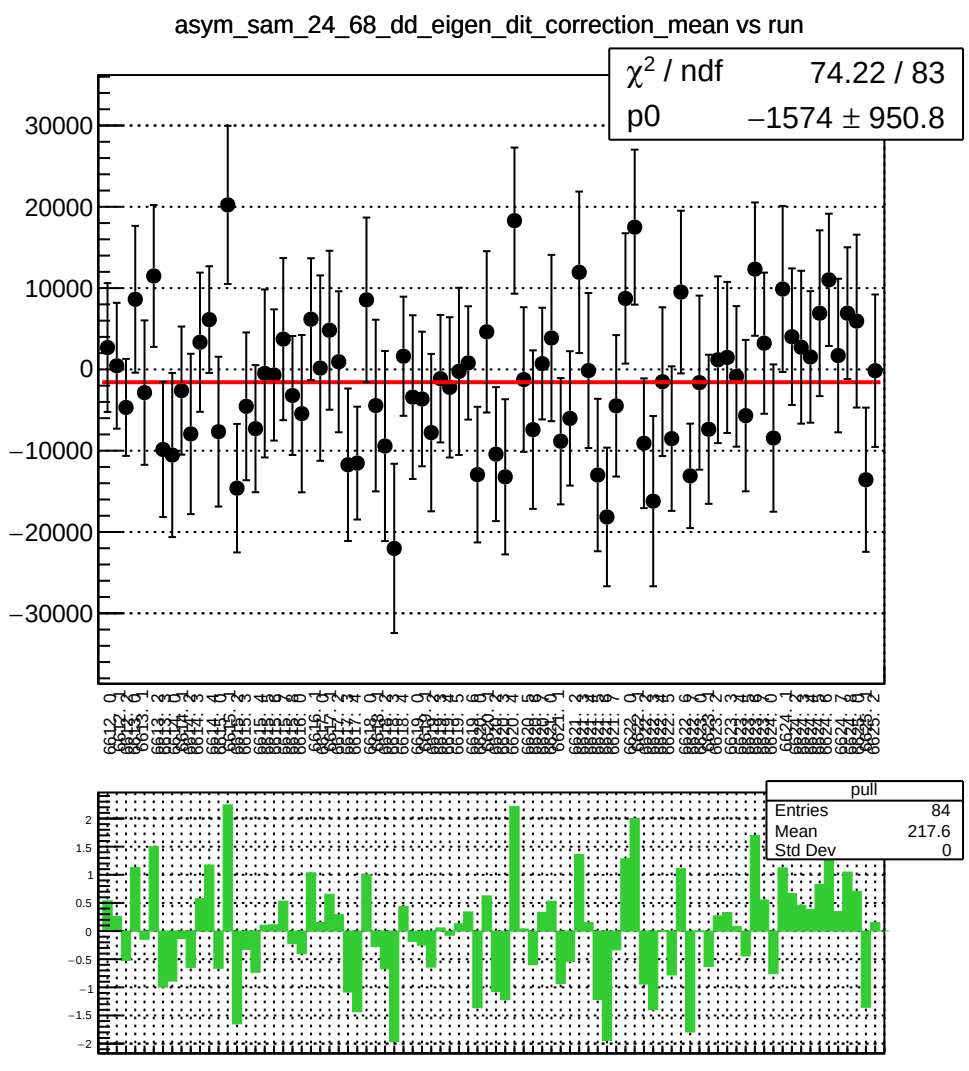

pull1D
Entries 84
Mean 0.01069
Std Dev 0.9399
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

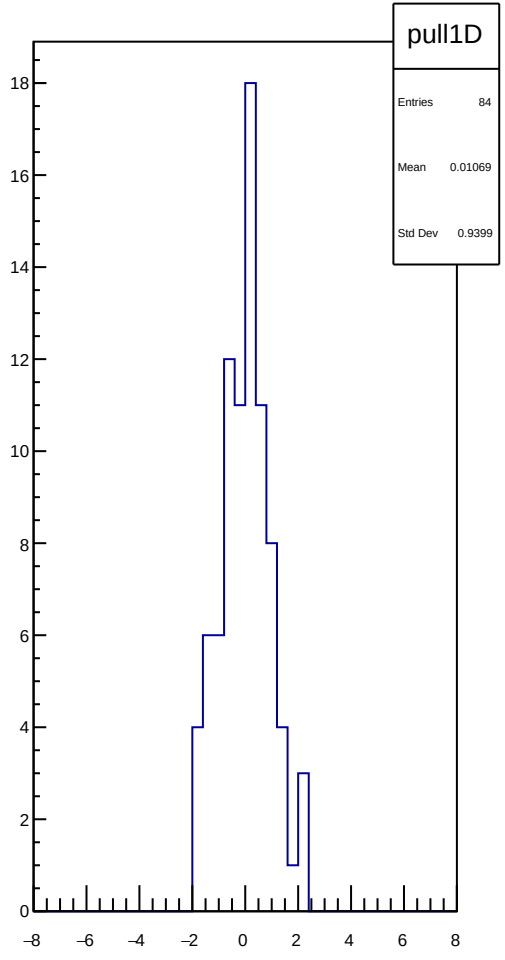

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 1.47e+04 / 83
p0 855.2 ± 0.6723
1150
1100
1050
1000
950
900
850
800
750
700

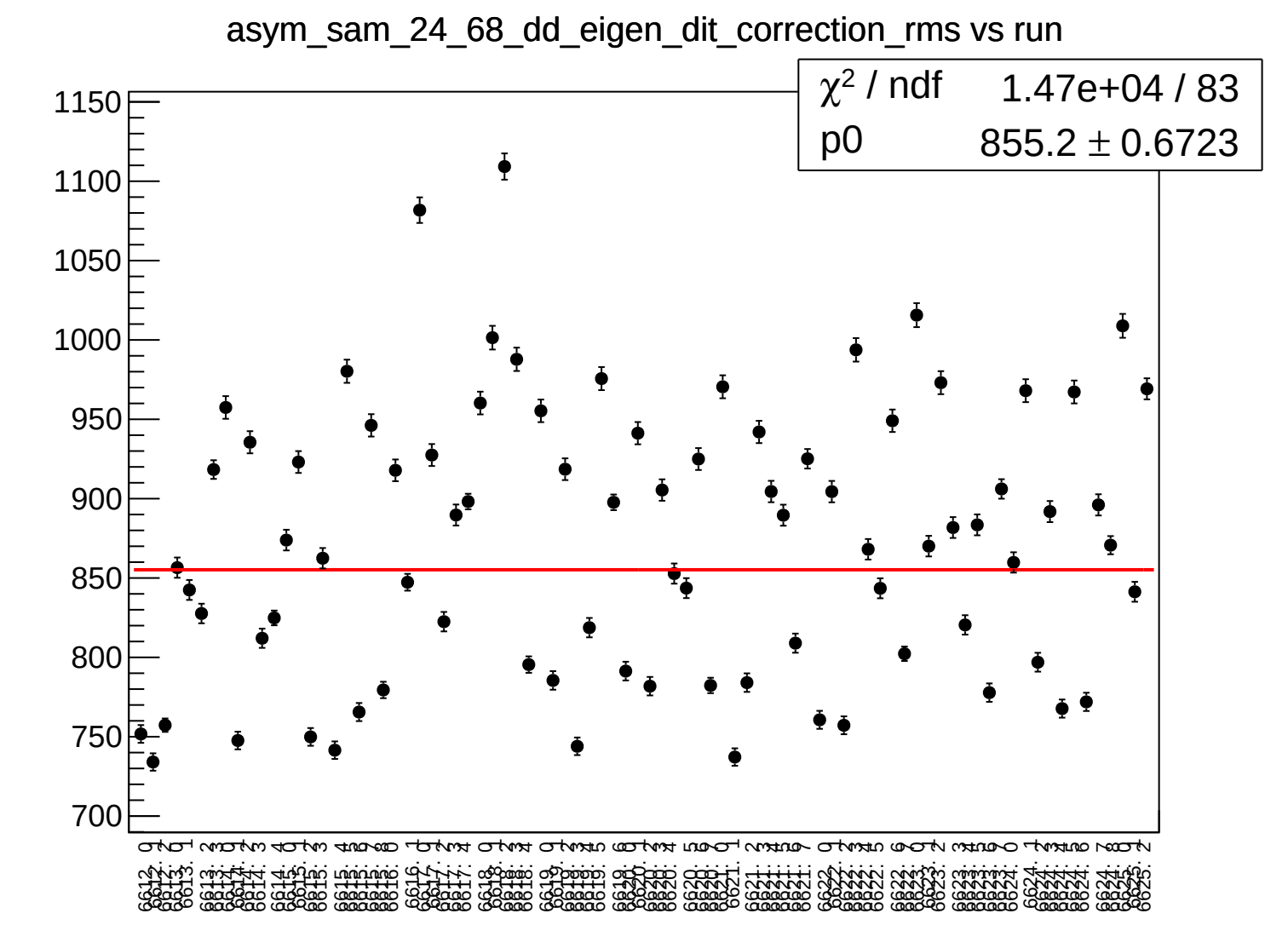

eigen_dit_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 83.71 / 83
p0 162.5 ± 107.9
pull
Entries 84
Mean 92.88
Std Dev 0

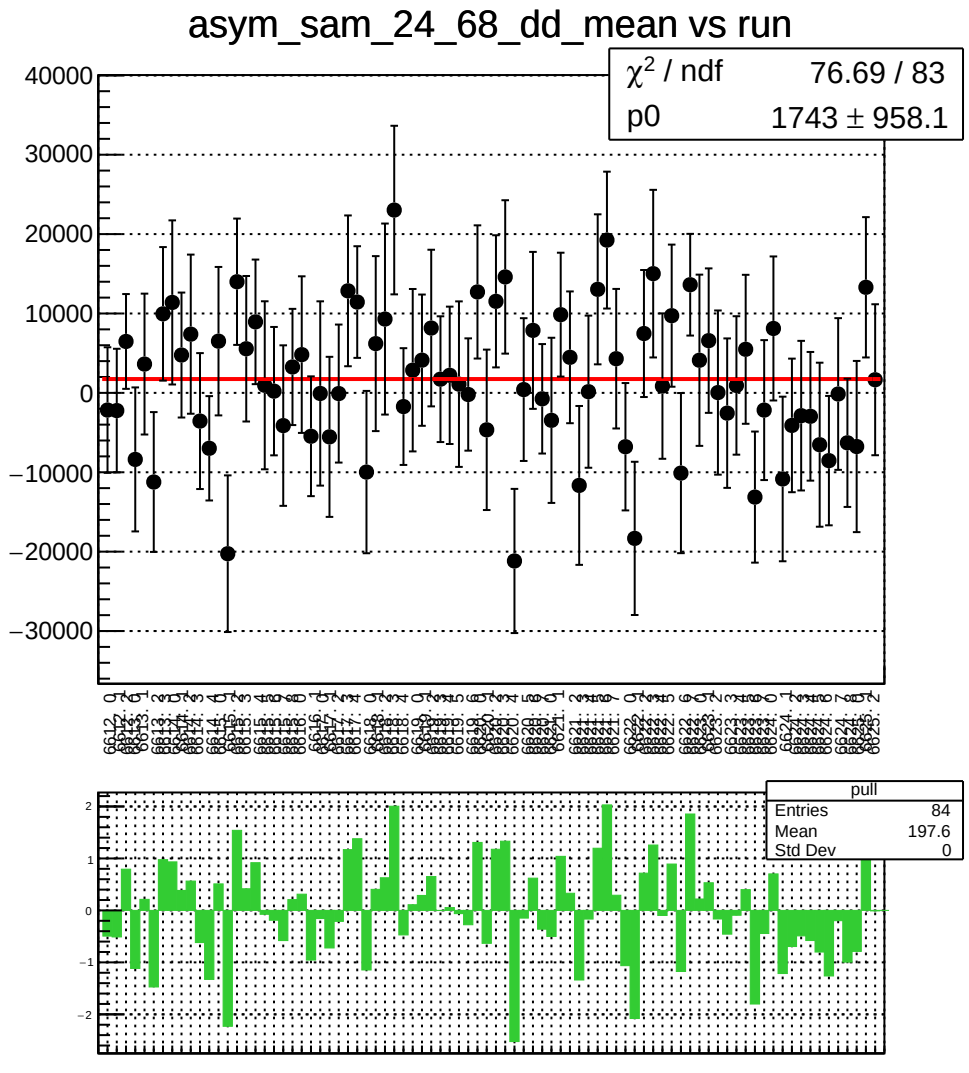

pull1D
Entries 84
Mean −0.00989
Std Dev 0.9982

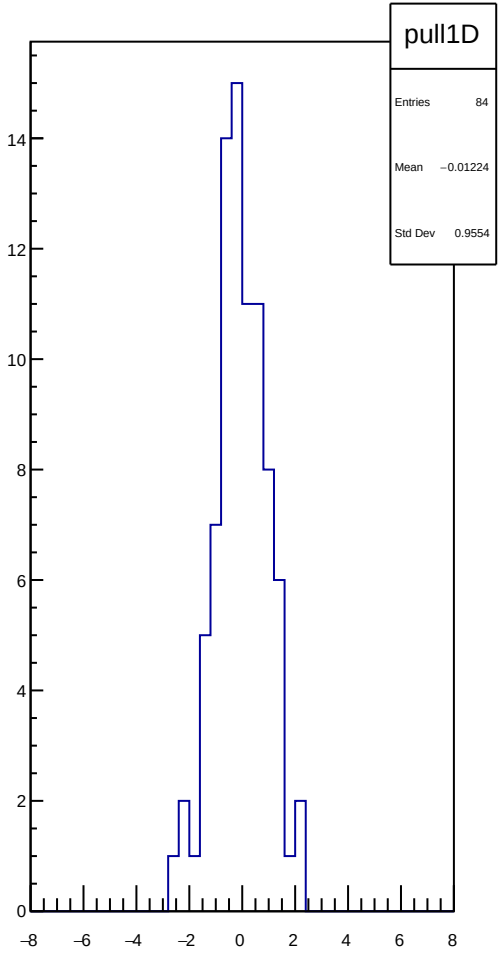

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 3861 / 83
p0 97.33 ± 0.07627
125
120
115
110
105
100
95
90

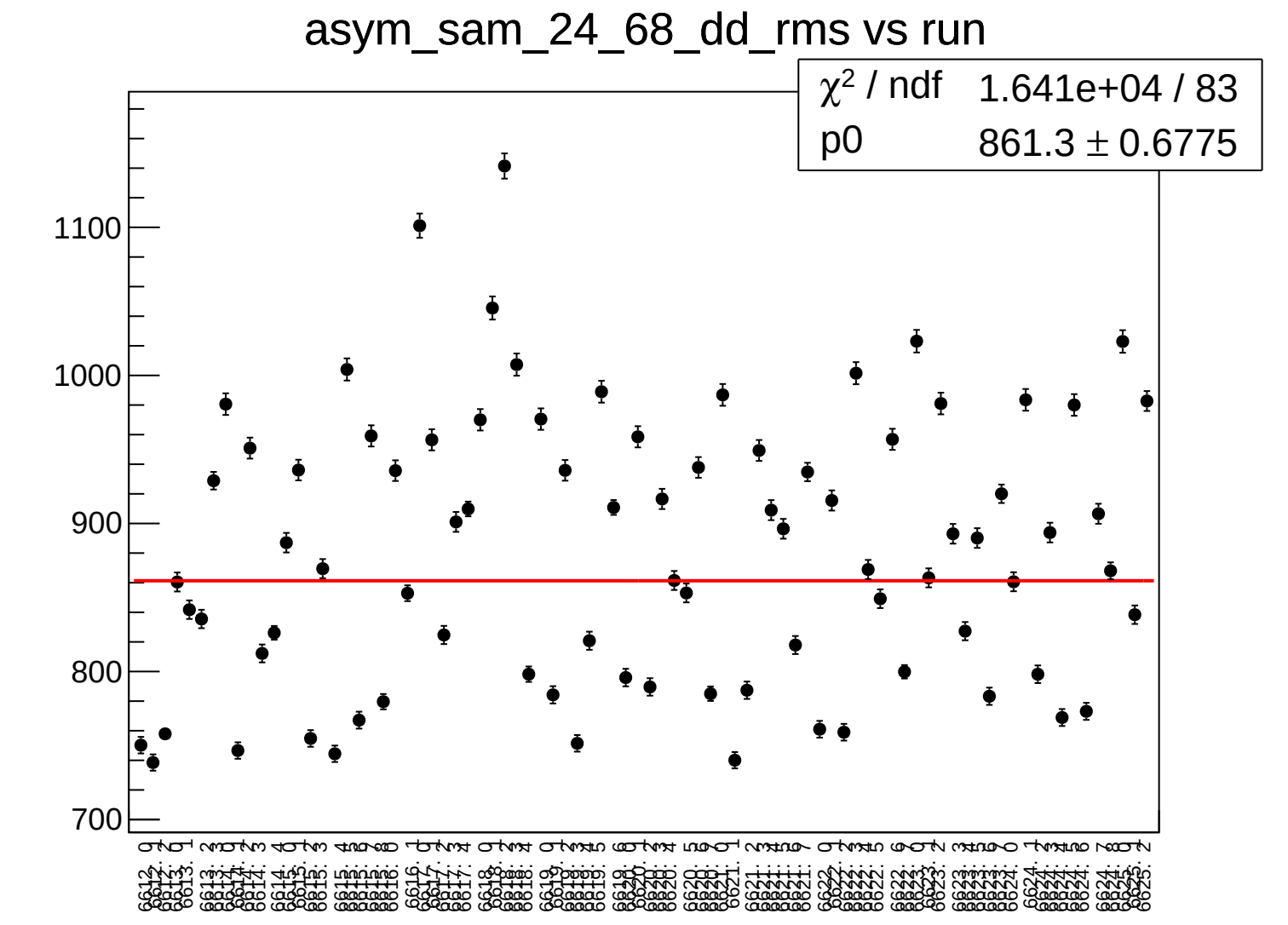

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.22 / 83
p0 −1574 ± 950.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 217.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

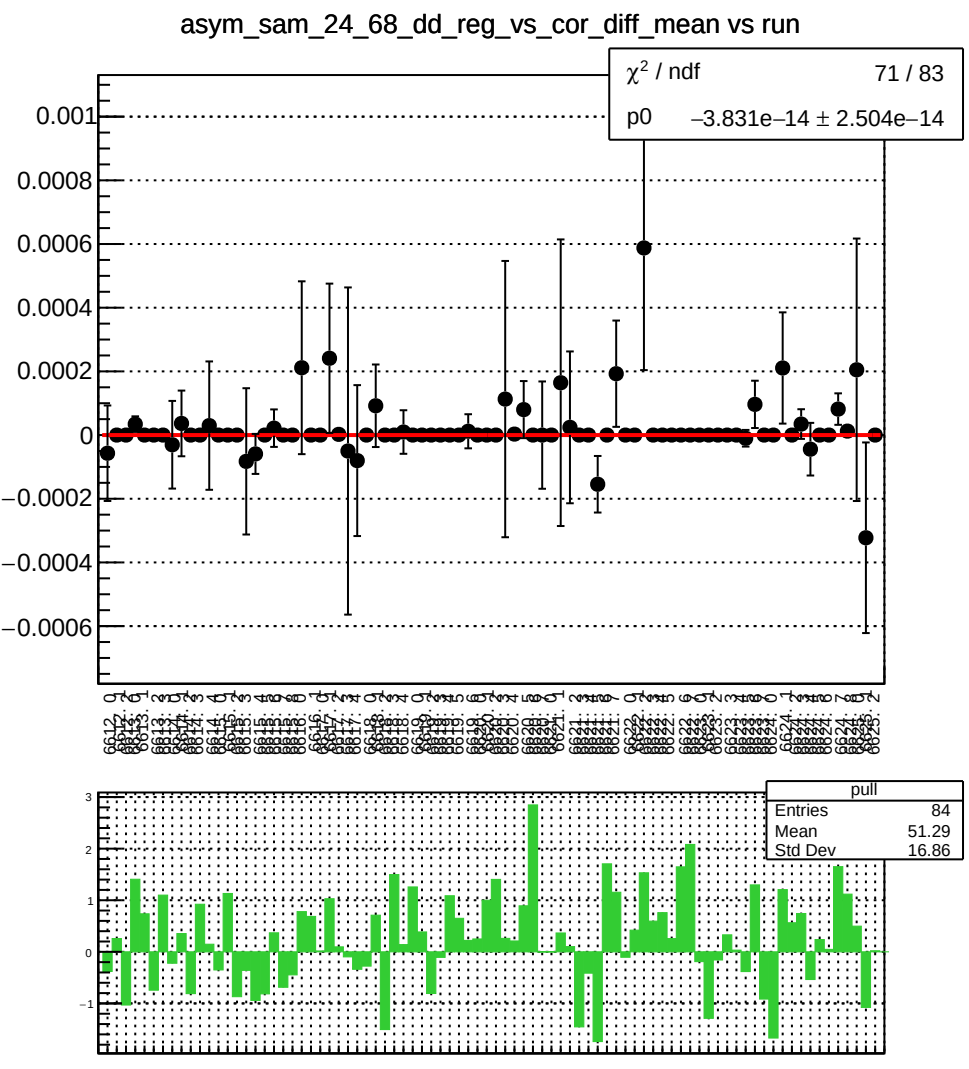

pull1D
Entries 84
Mean 0.01069
Std Dev 0.9399
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

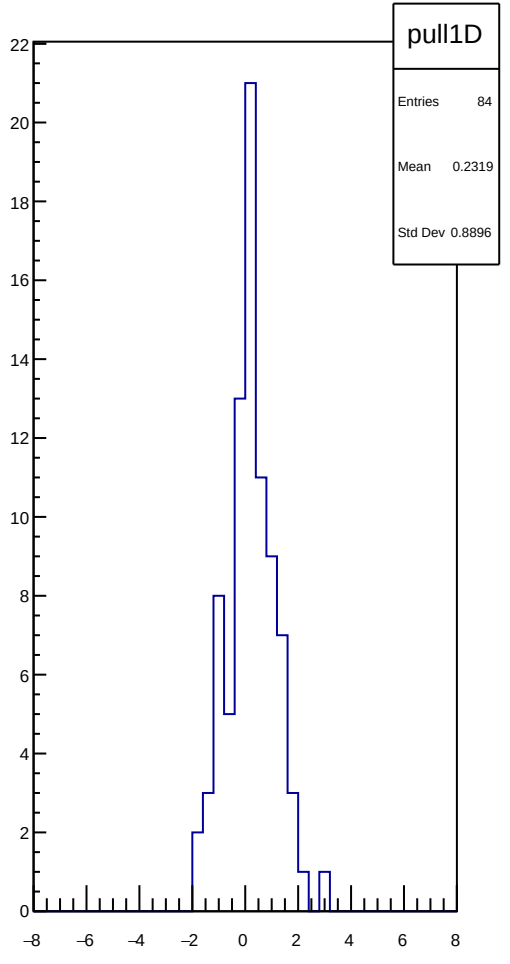

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.47e+04 / 83
p0 855.2 ± 0.6723
1150
1100
1050
1000
950
900
850
800
750
700

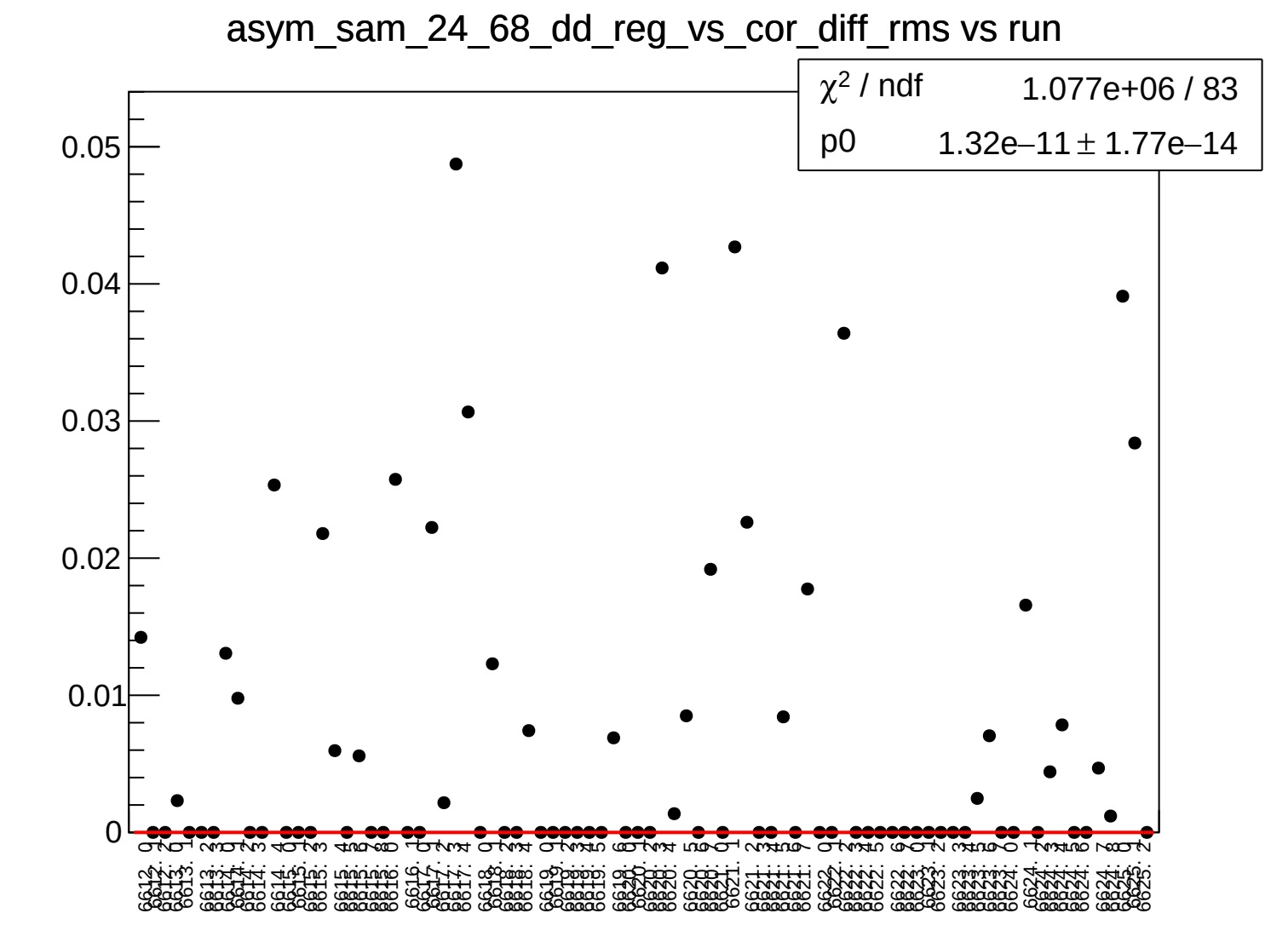

asym_sam_24_68_dd_mean vs run
χ² / ndf 76.69 / 83
p0 1743 ± 958.1
pull
Entries 84
Mean 197.6
Std Dev 0

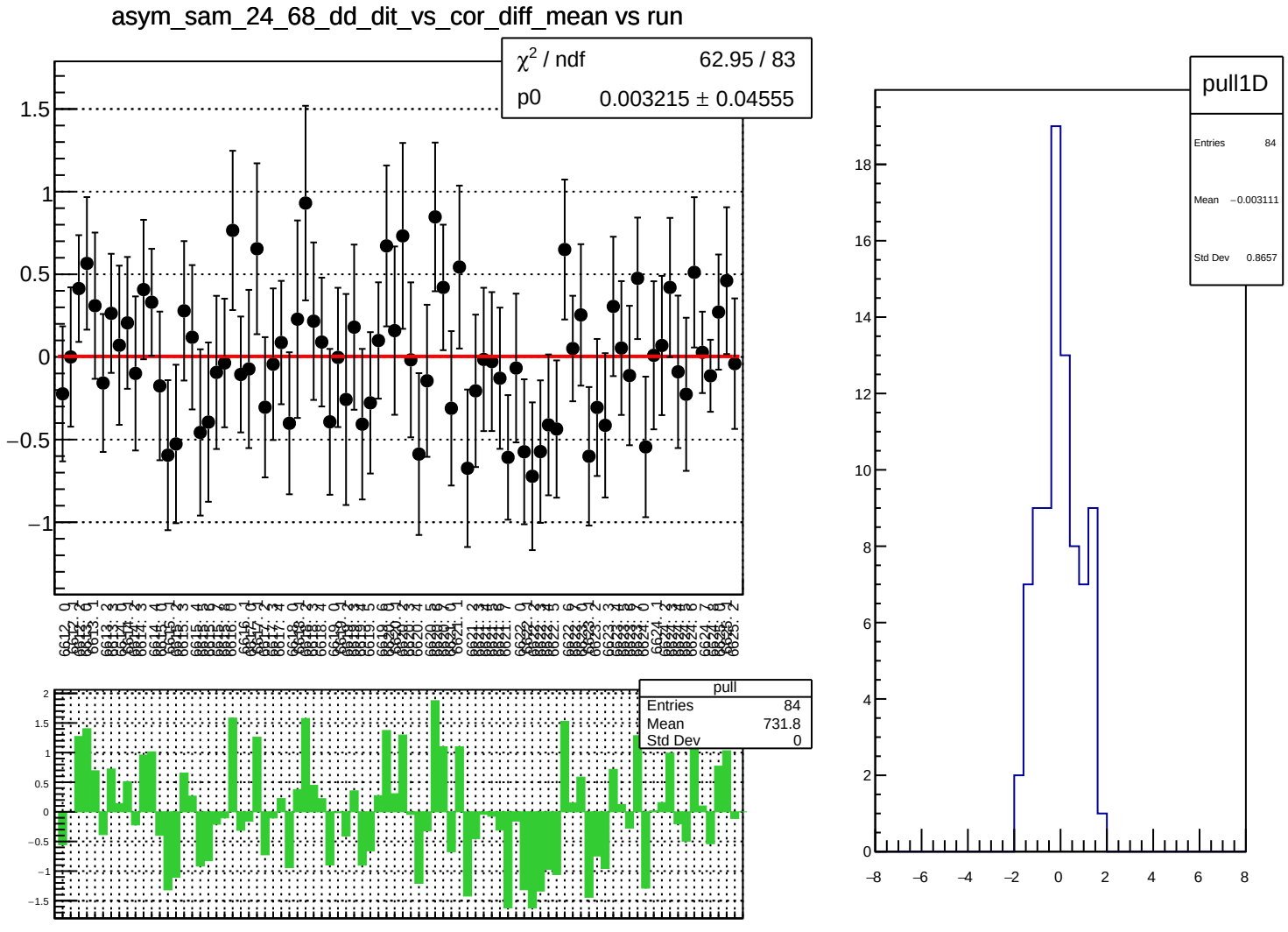

pull1D
Entries 84
Mean −0.01224
Std Dev 0.9554

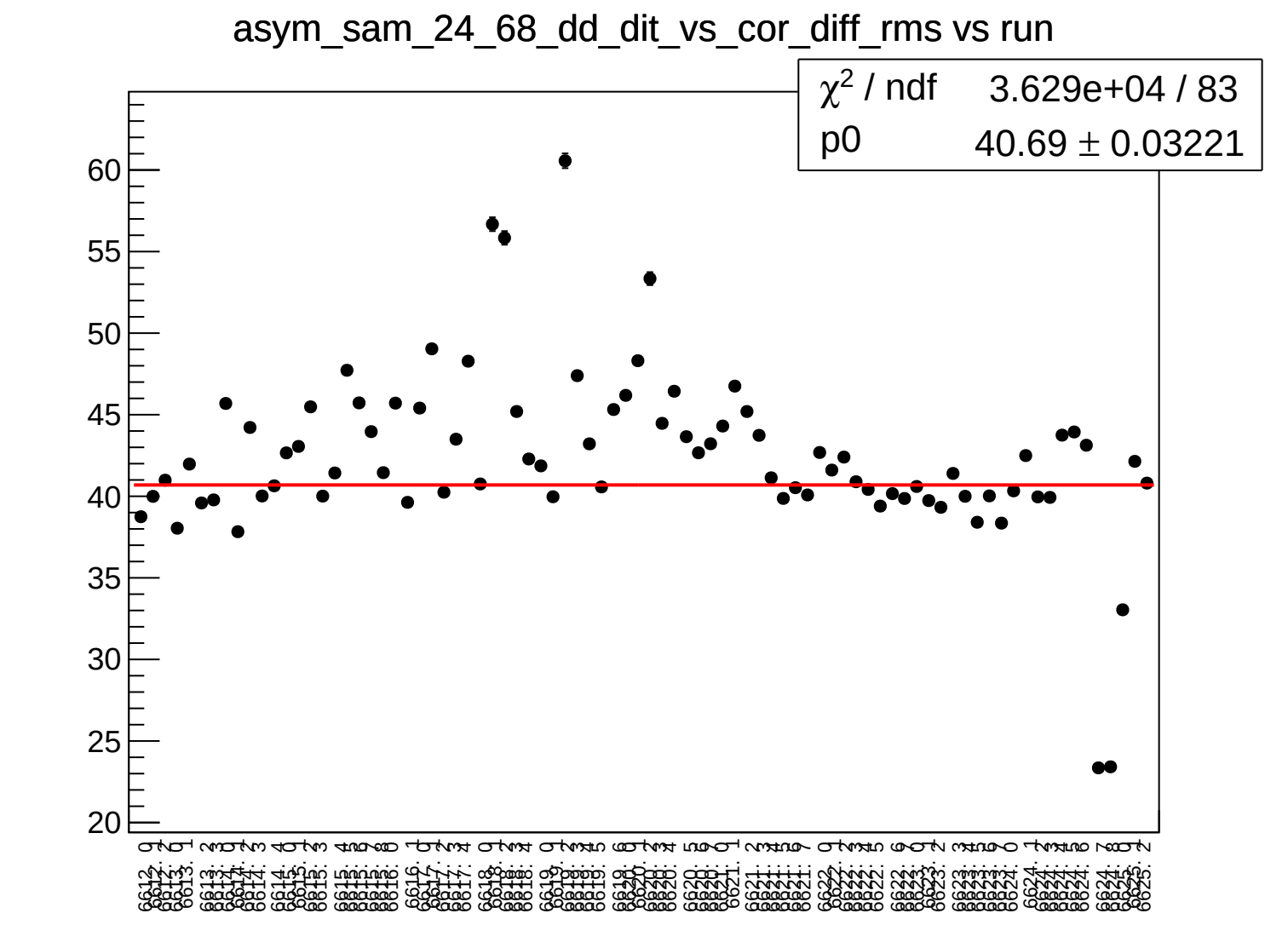

asym_sam_24_68_dd_rms vs run
χ² / ndf 1.641e+04 / 83
p0 861.3 ± 0.6775
1100
1000
900
800
700

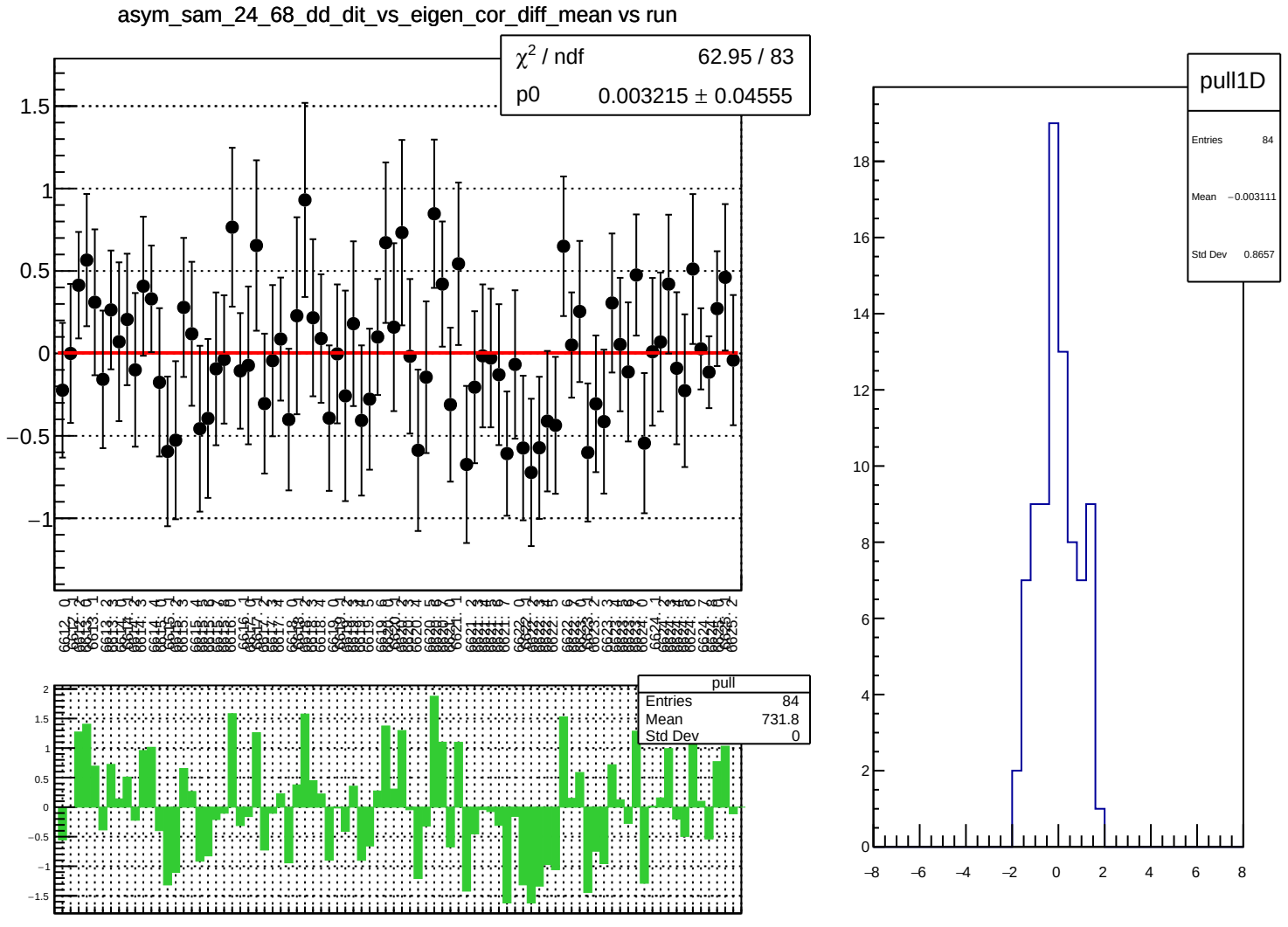

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 71 / 83
p0 −3.831e−14 ± 2.504e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 84
Mean 51.29
Std Dev 16.86
3
2
1
0
−1

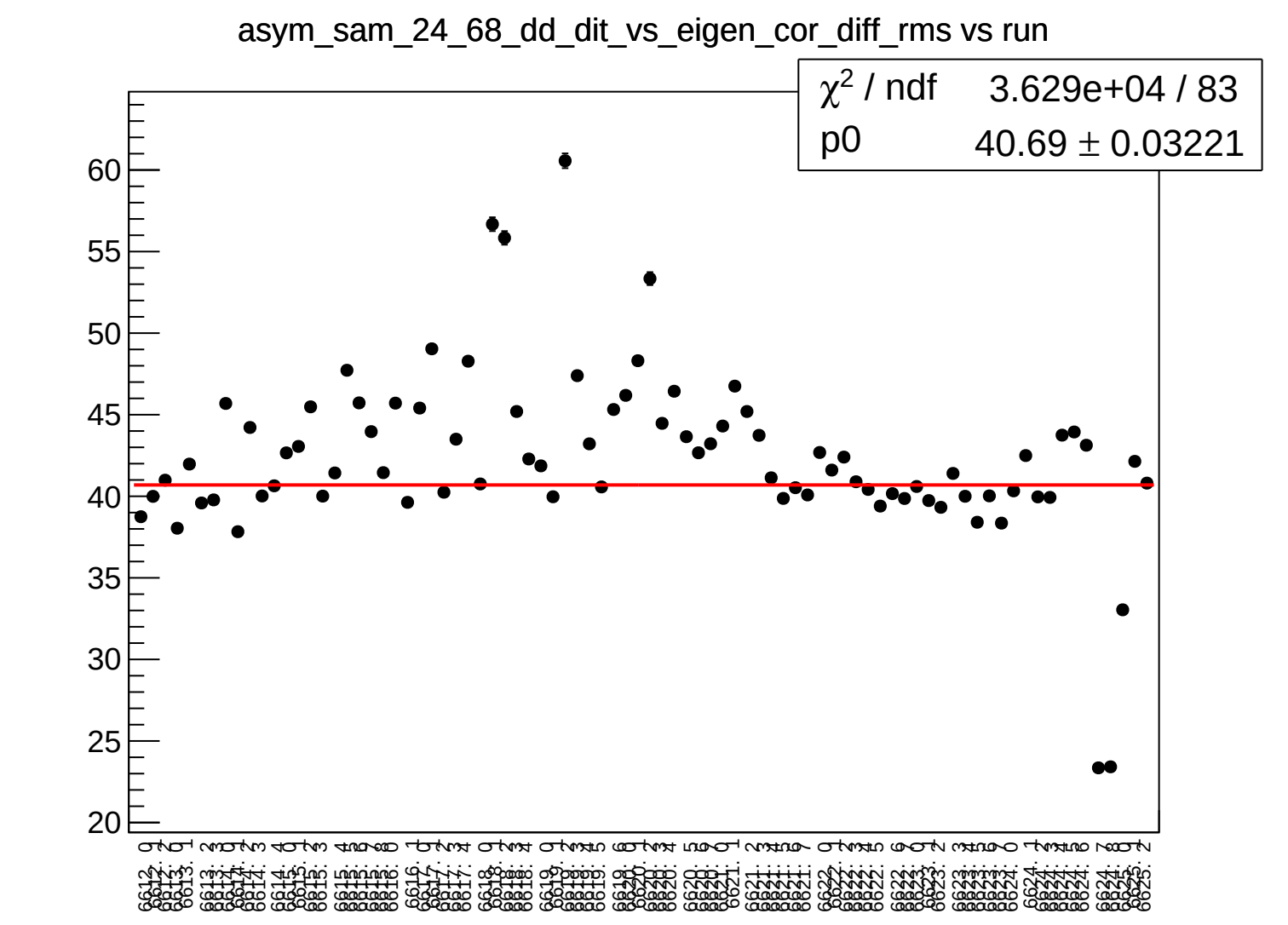

pull1D
Entries 84
Mean 0.2319
Std Dev 0.8896
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

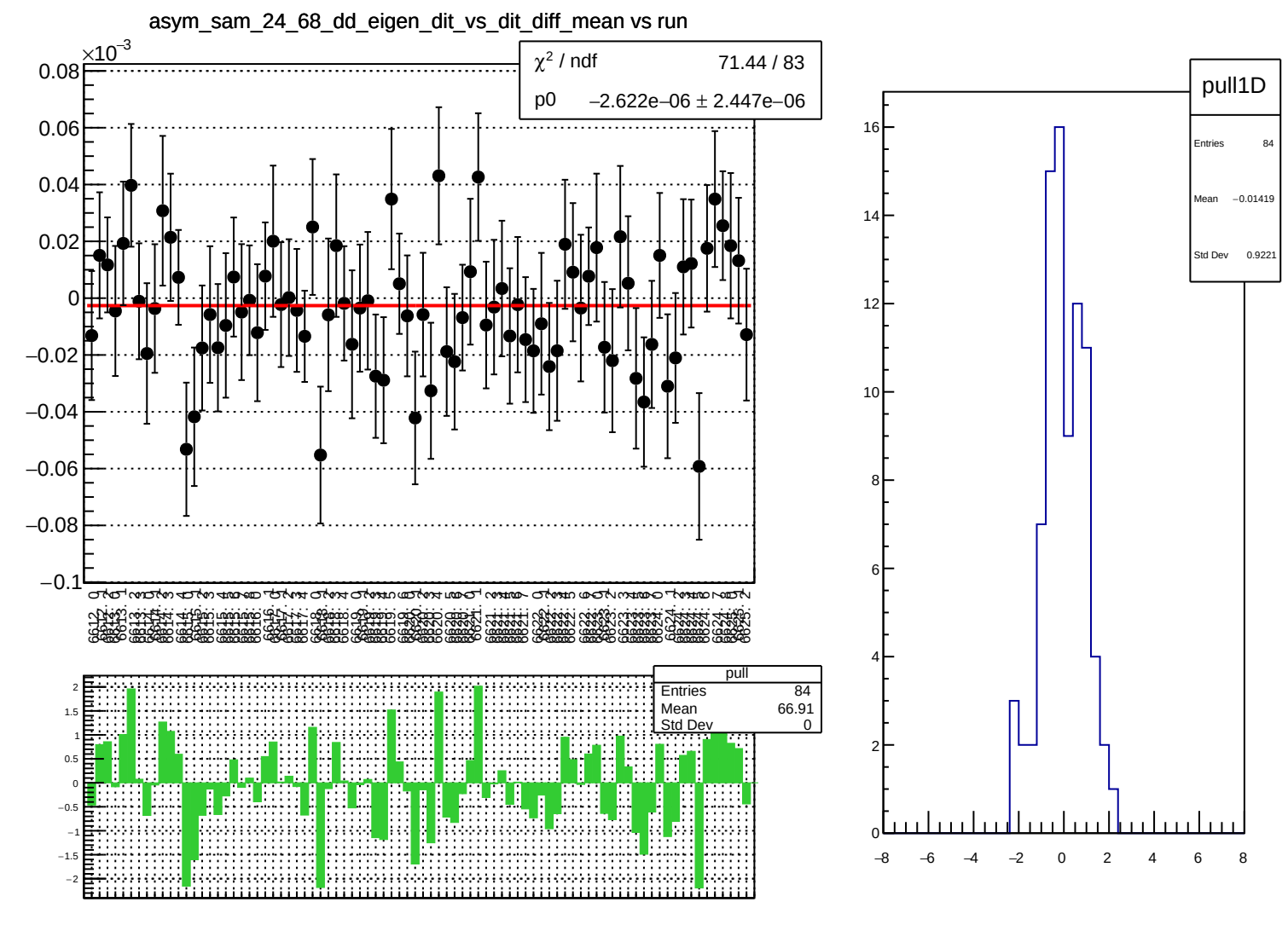

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.077e+06 / 83
p0 1.32e−11 ± 1.77e−14
0.05
0.04
0.03
0.02
0.01
0

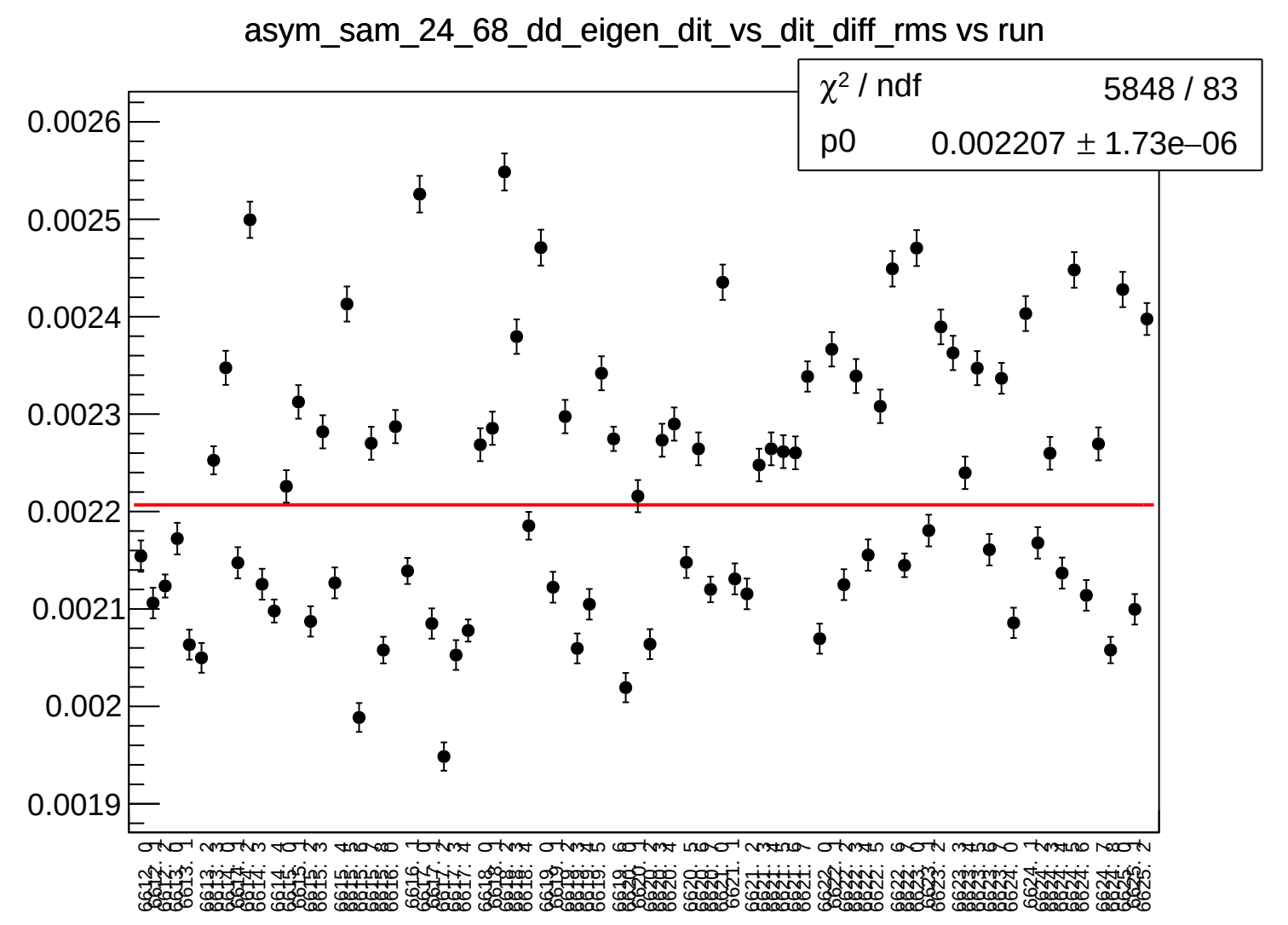

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 62.95 / 83
p0 0.003215 ± 0.04555
pull
Entries 84
Mean 731.8
Std Dev 0
pull1D
Entries 84
Mean −0.003111
Std Dev 0.8657

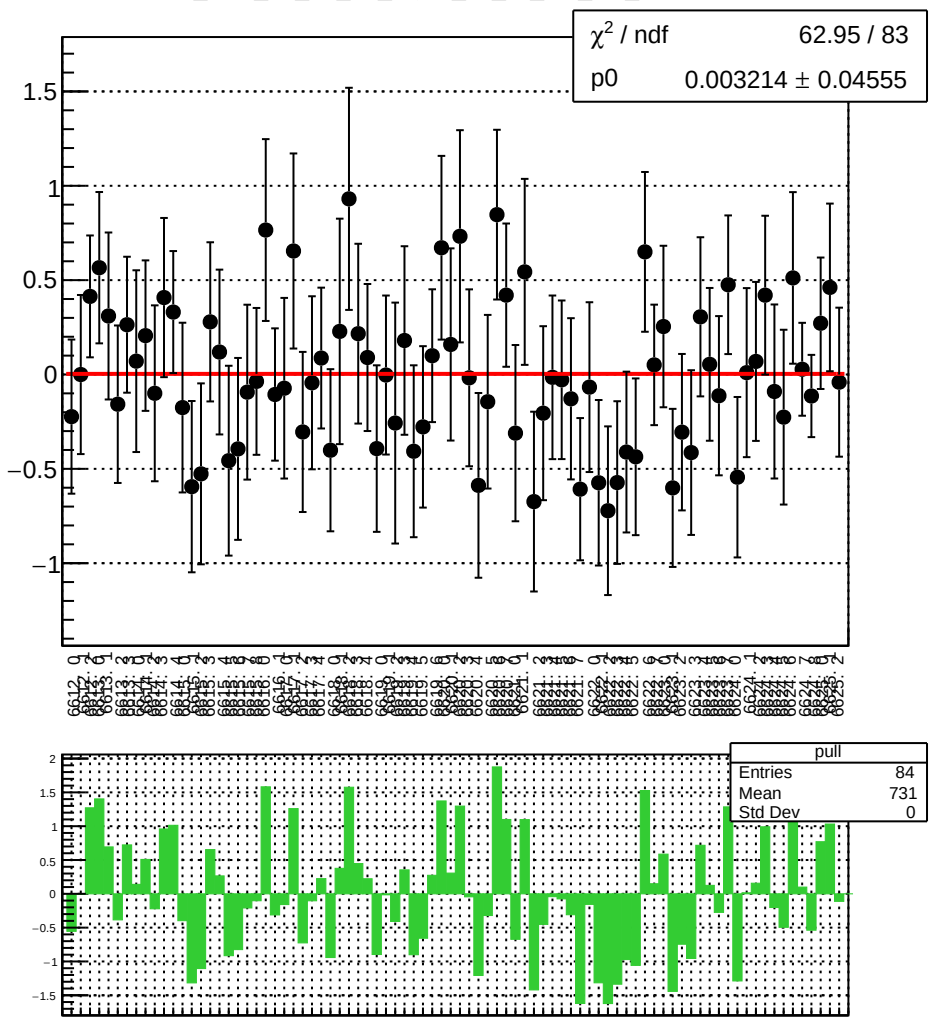

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.629e+04 / 83
p0 40.69 ± 0.03221
60
55
50
45
40
35
30
25
20

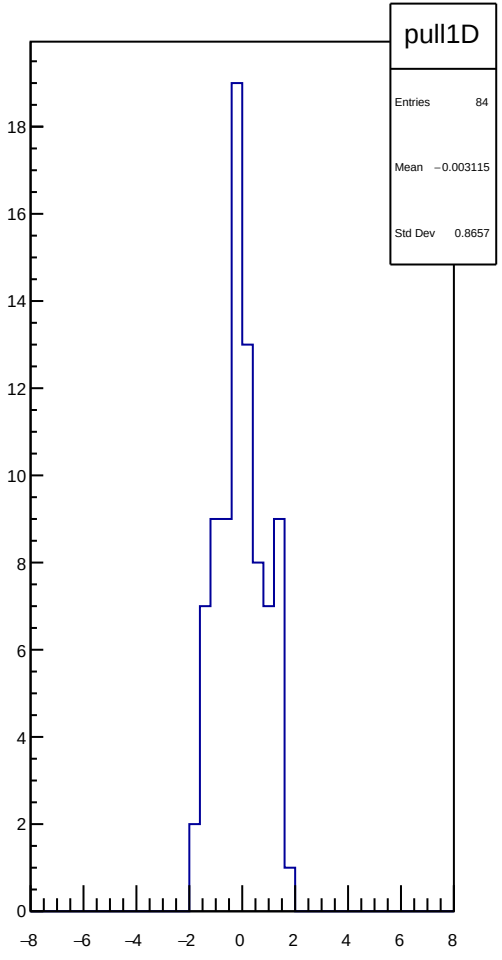

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.95 / 83
p0 0.003215 ± 0.04555
pull
Entries 84
Mean 731.8
Std Dev 0
pull1D
Entries 84
Mean −0.003111
Std Dev 0.8657

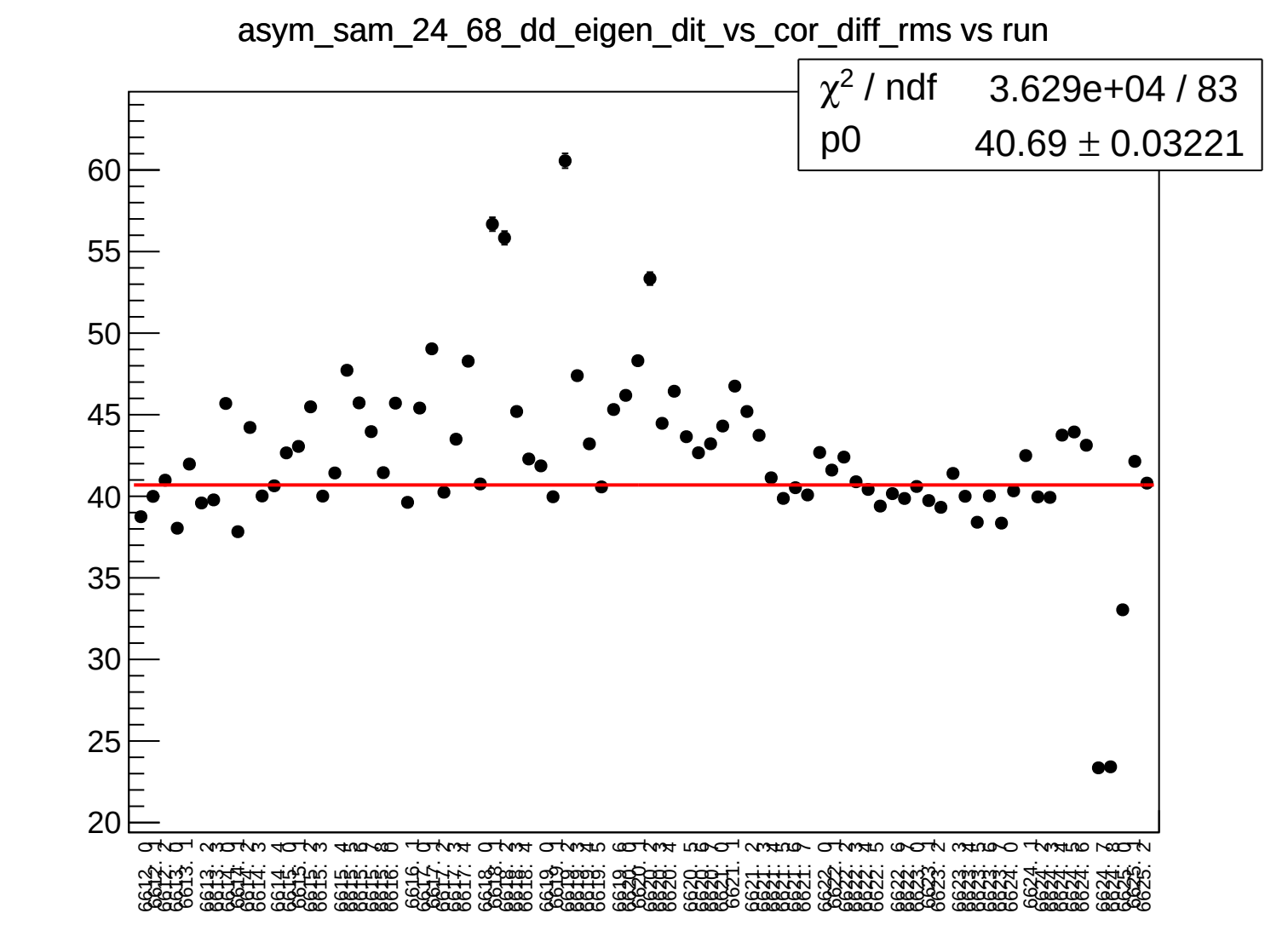

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.629e+04 / 83
p0 40.69 ± 0.03221
60
55
50
45
40
35
30
25
20

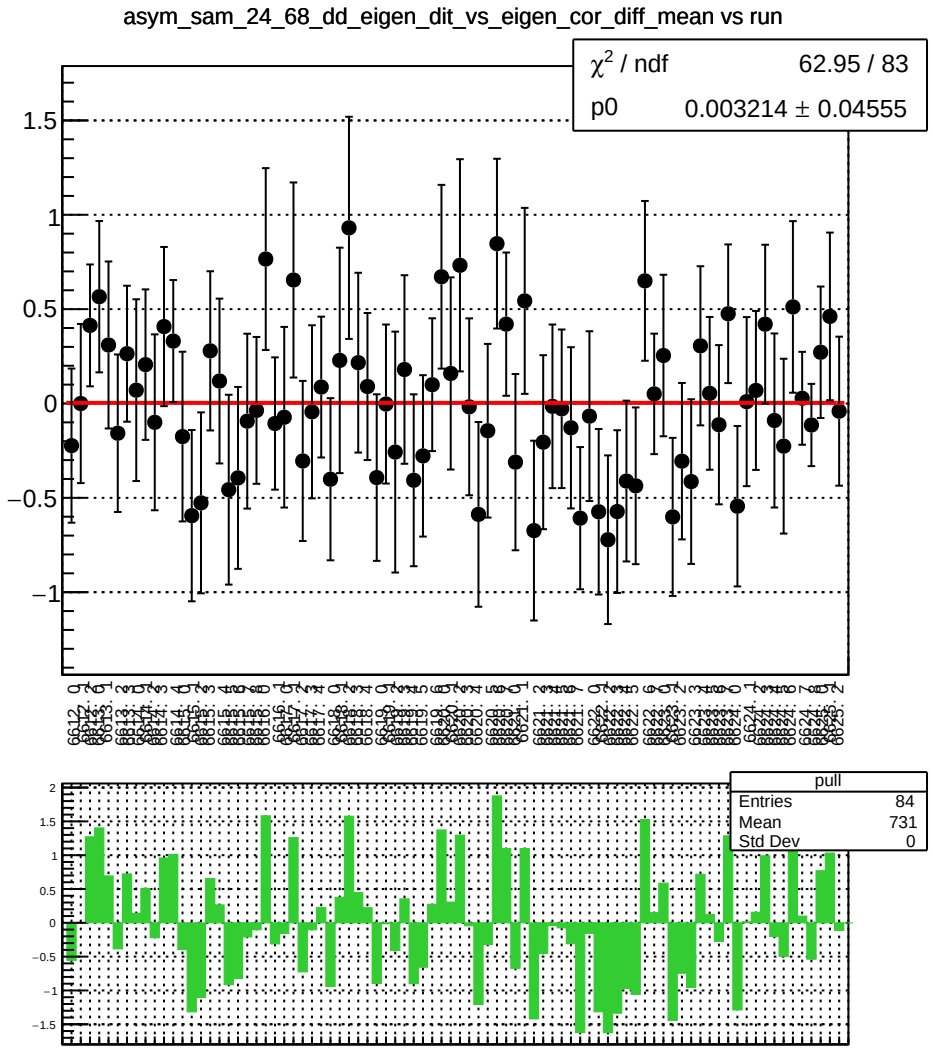

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 71.44 / 83
p0 −2.622e−06 ± 2.447e−06
pull
Entries 84
Mean 66.91
Std Dev 0
pull1D
Entries 84
Mean −0.01419
Std Dev 0.9221

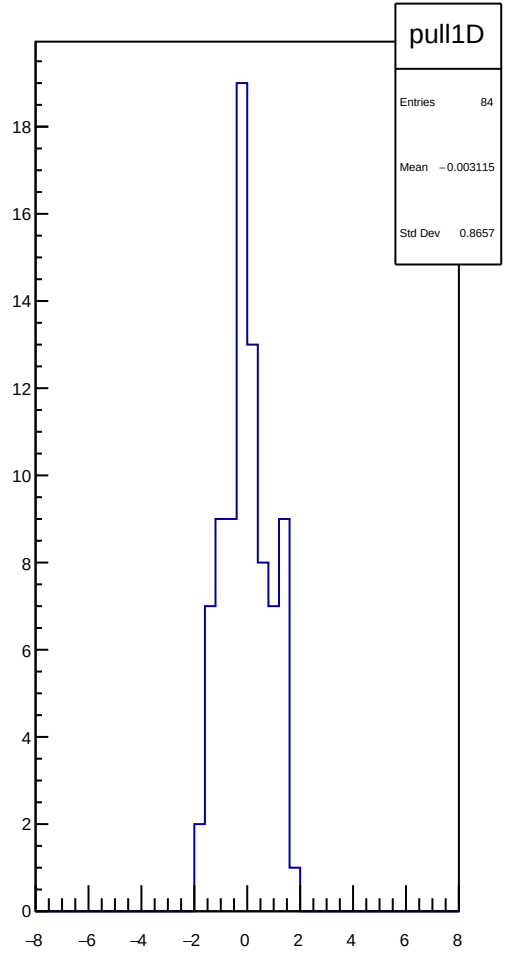

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5848 / 83
p0 0.002207 ± 1.73e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

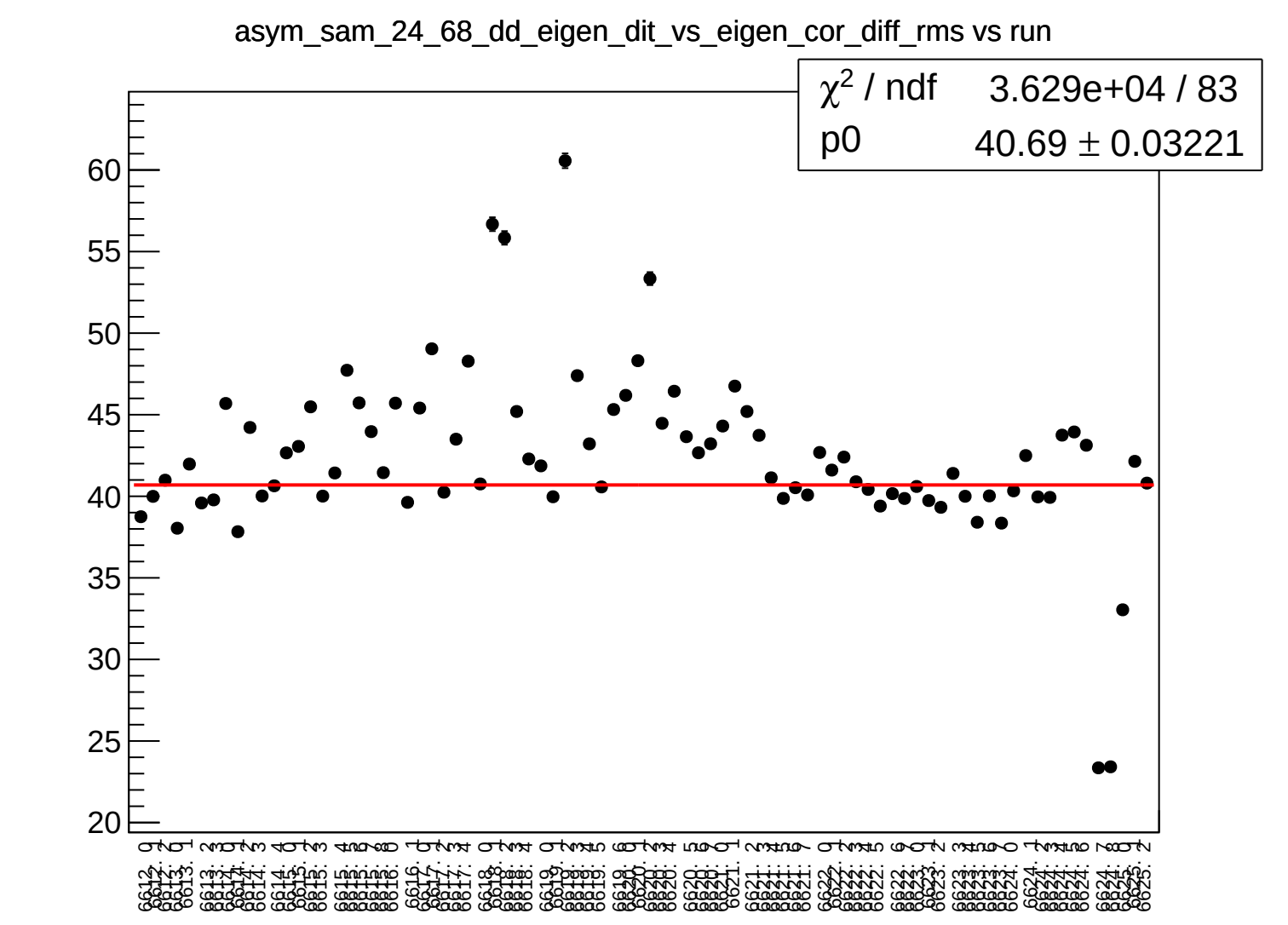

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 62.95 / 83
p0 0.003214 ± 0.04555
pull
Entries 84
Mean 731
Std Dev 0

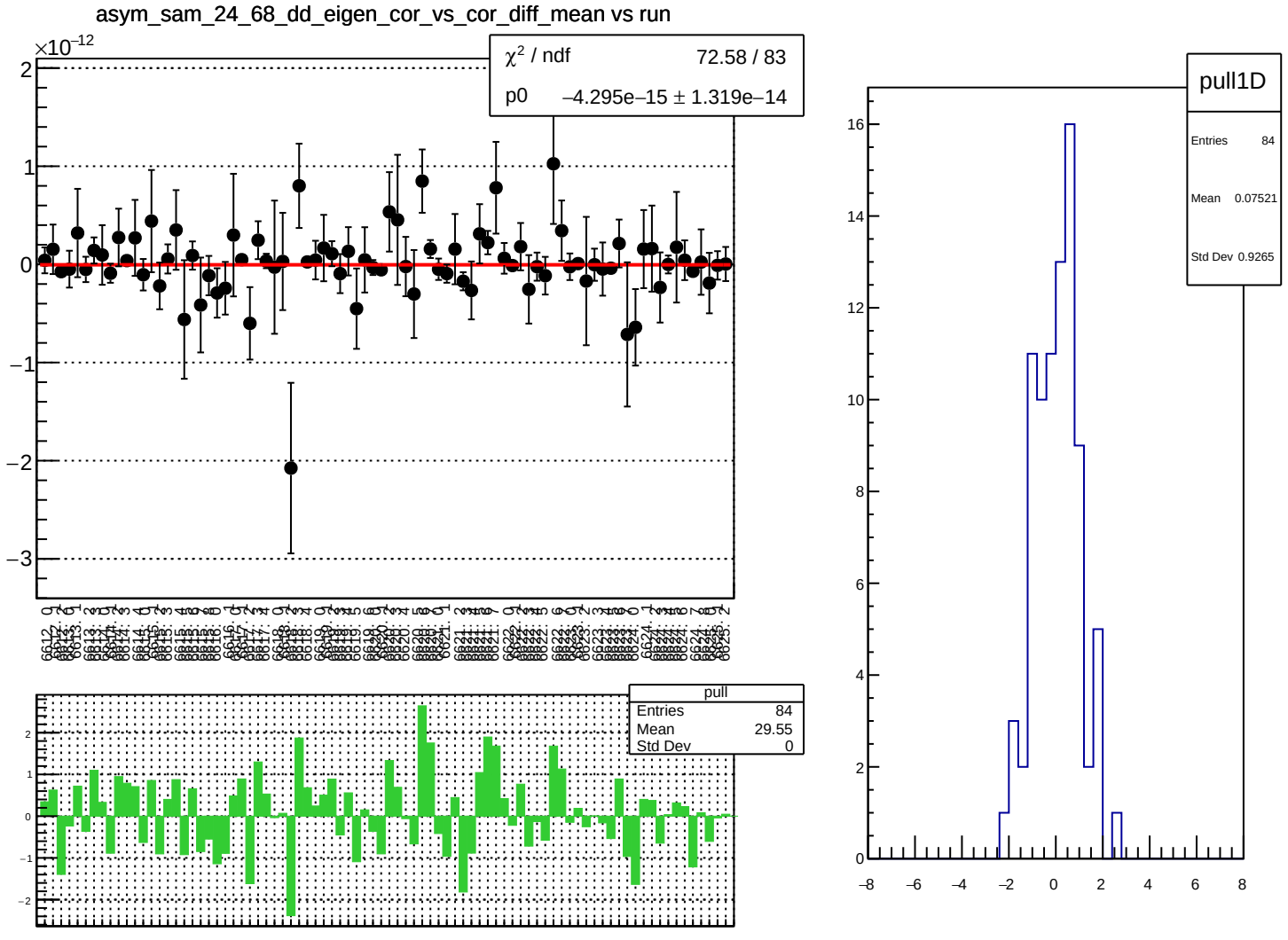

pull1D
Entries 84
Mean −0.003115
Std Dev 0.8657

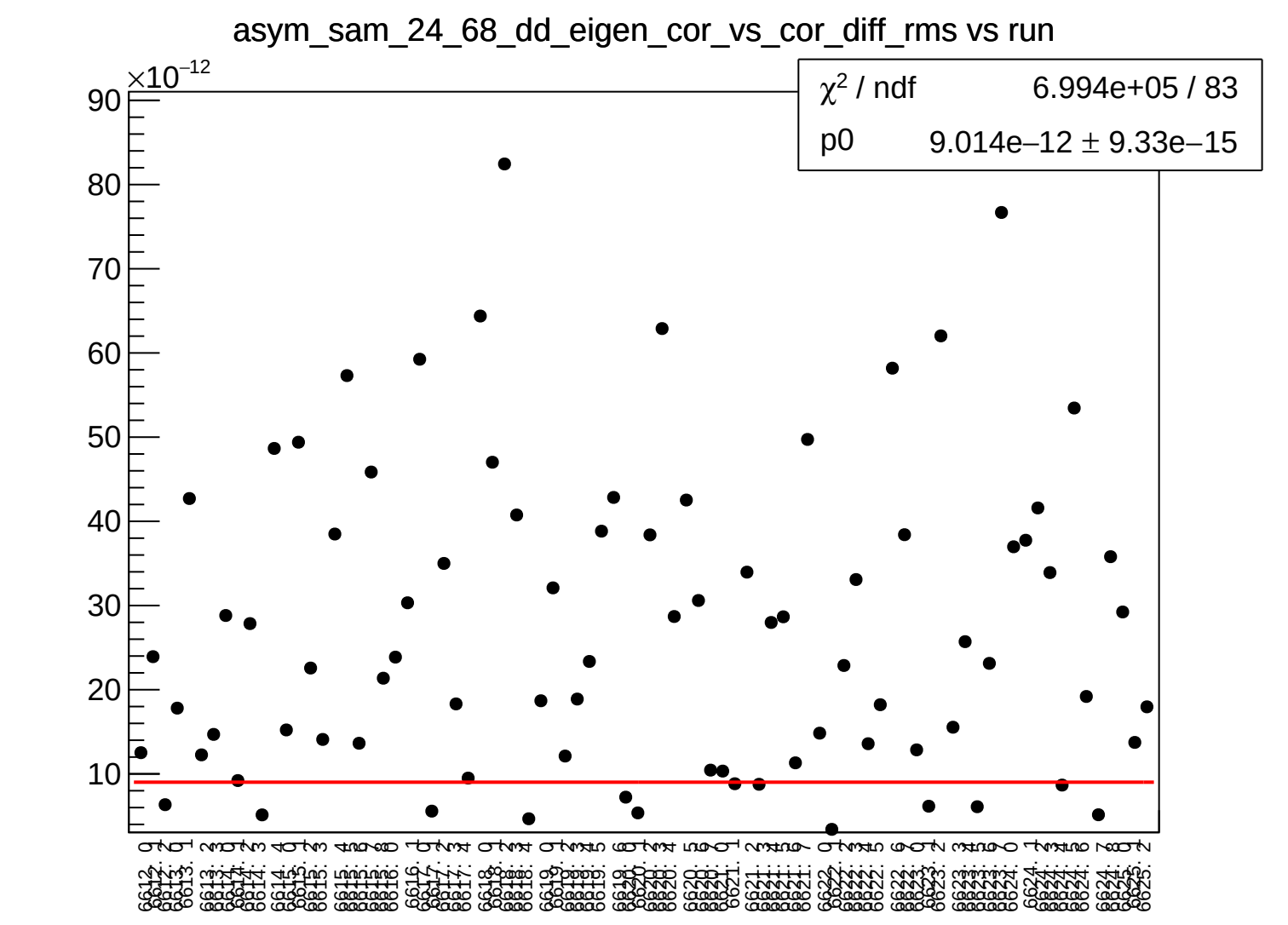

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.629e+04 / 83
p0 40.69 ± 0.03221
60
55
50
45
40
35
30
25
20

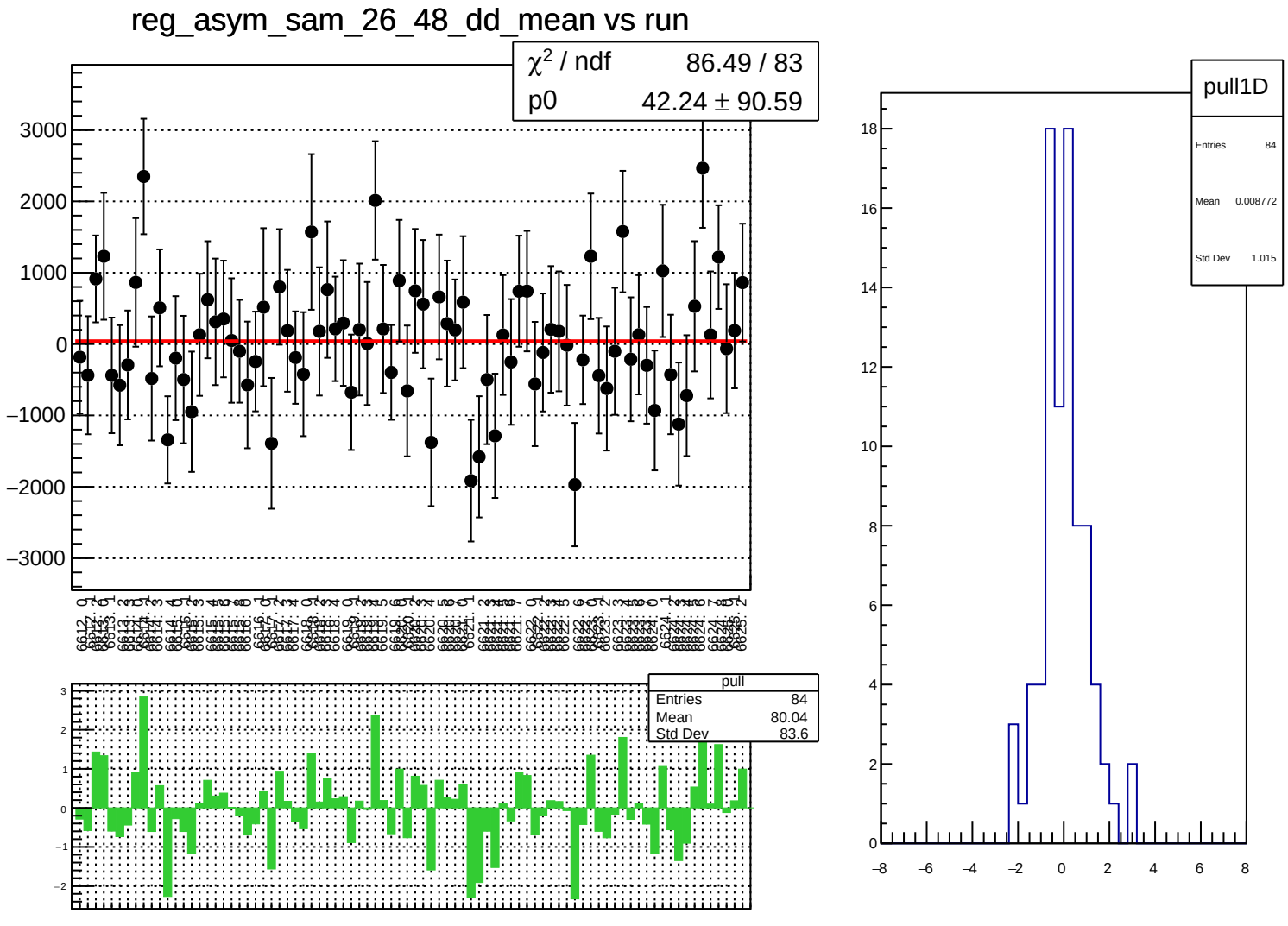

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.95 / 83
p0 0.003214 ± 0.04555
pull
Entries 84
Mean 731
Std Dev 0

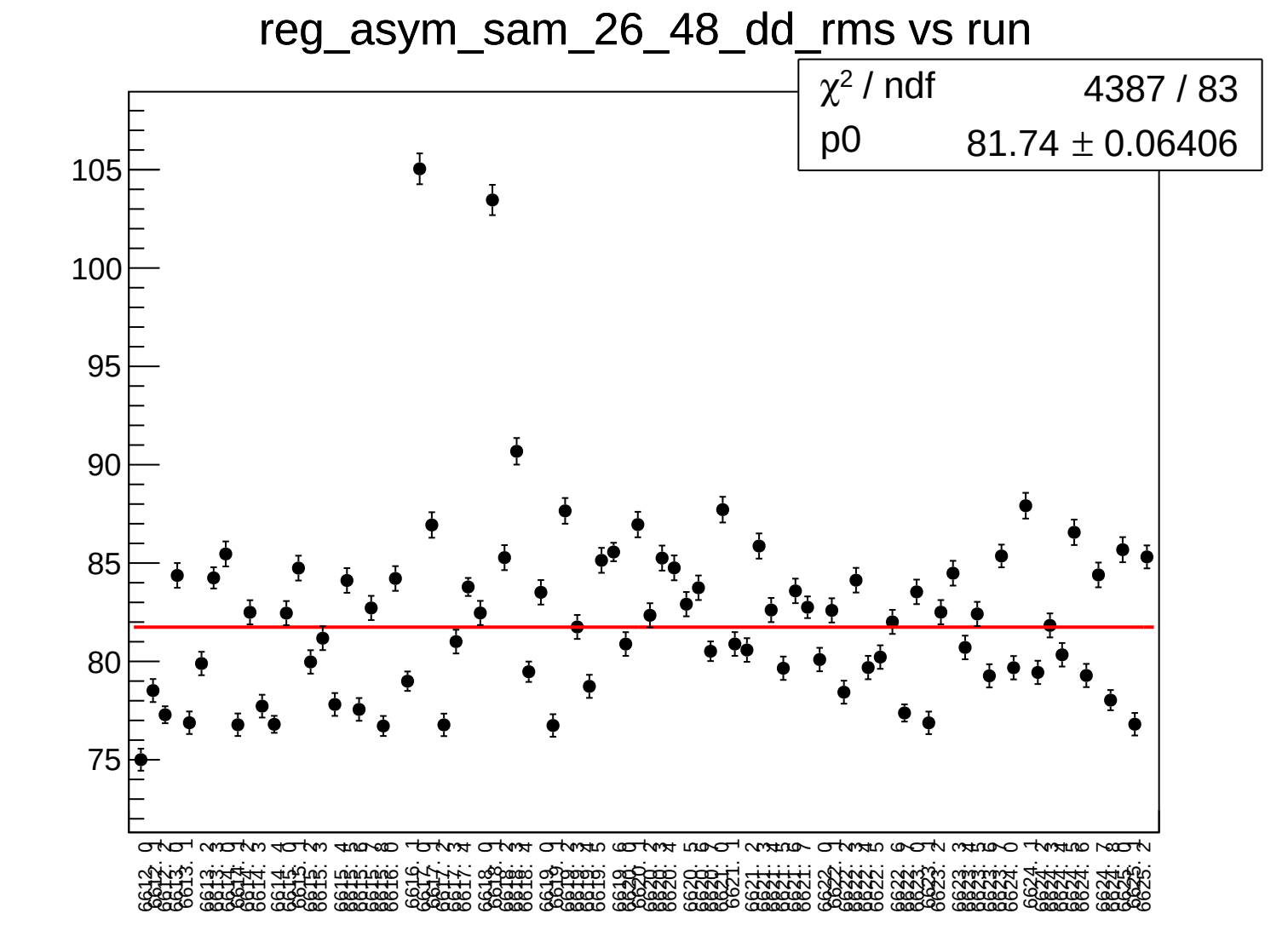

pull1D
Entries 84
Mean −0.003115
Std Dev 0.8657

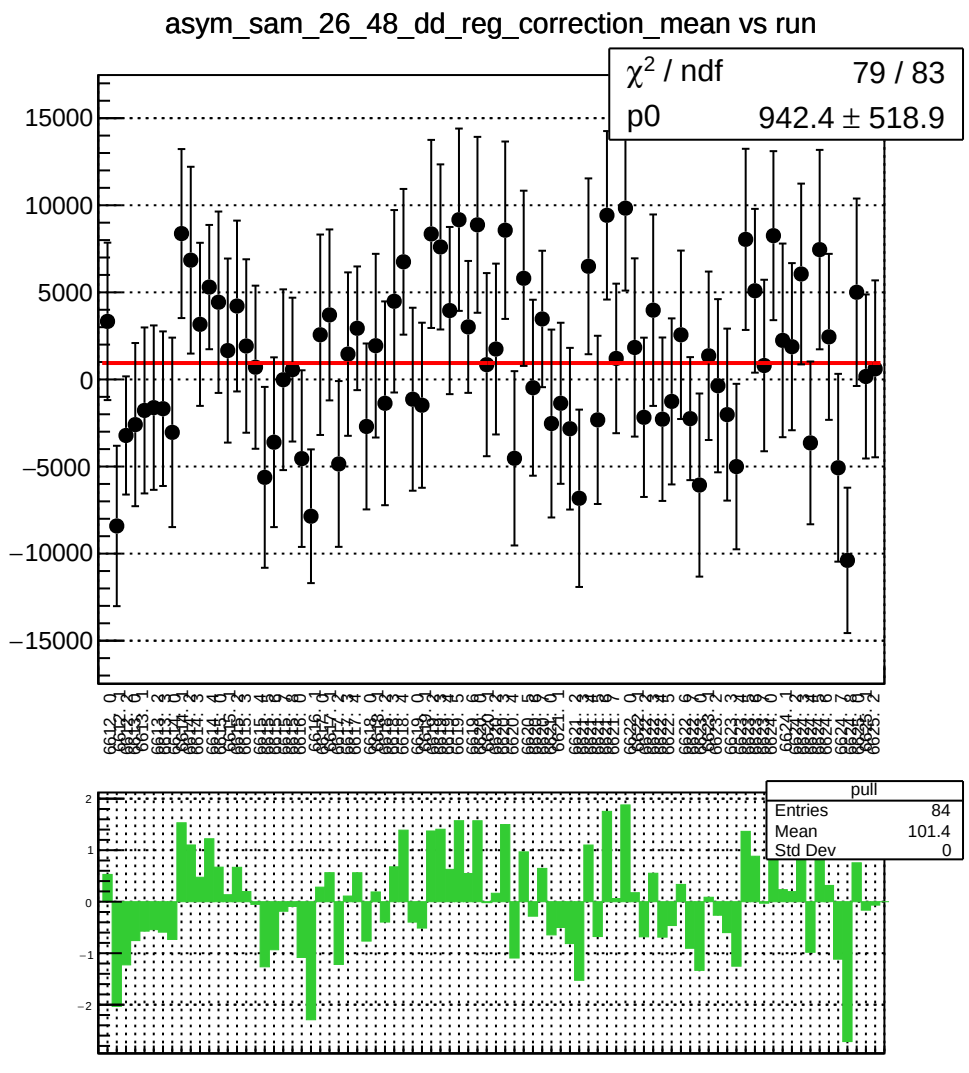

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.629e+04 / 83
p0 40.69 ± 0.03221
60
55
50
45
40
35
30
25
20

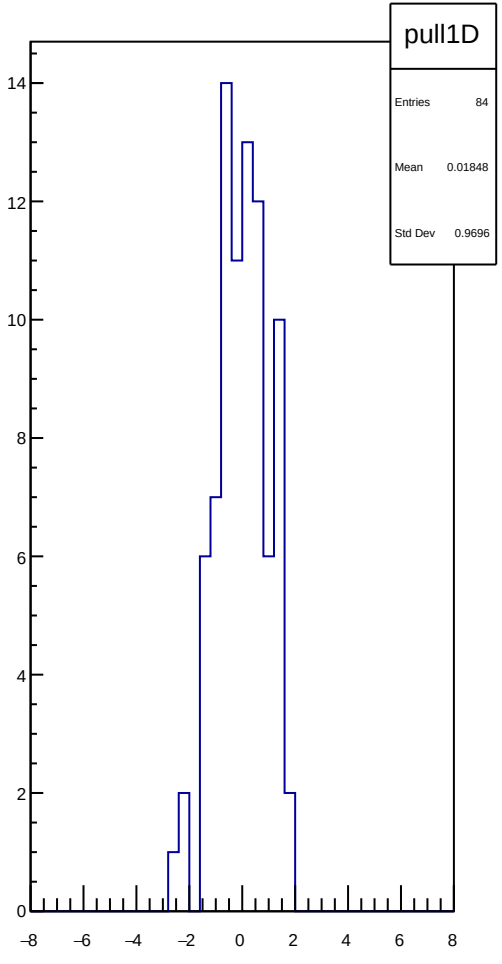

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.58 / 83
p0 −4.295e−15 ± 1.319e−14
pull
Entries 84
Mean 29.55
Std Dev 0
pull1D
Entries 84
Mean 0.07521
Std Dev 0.9265

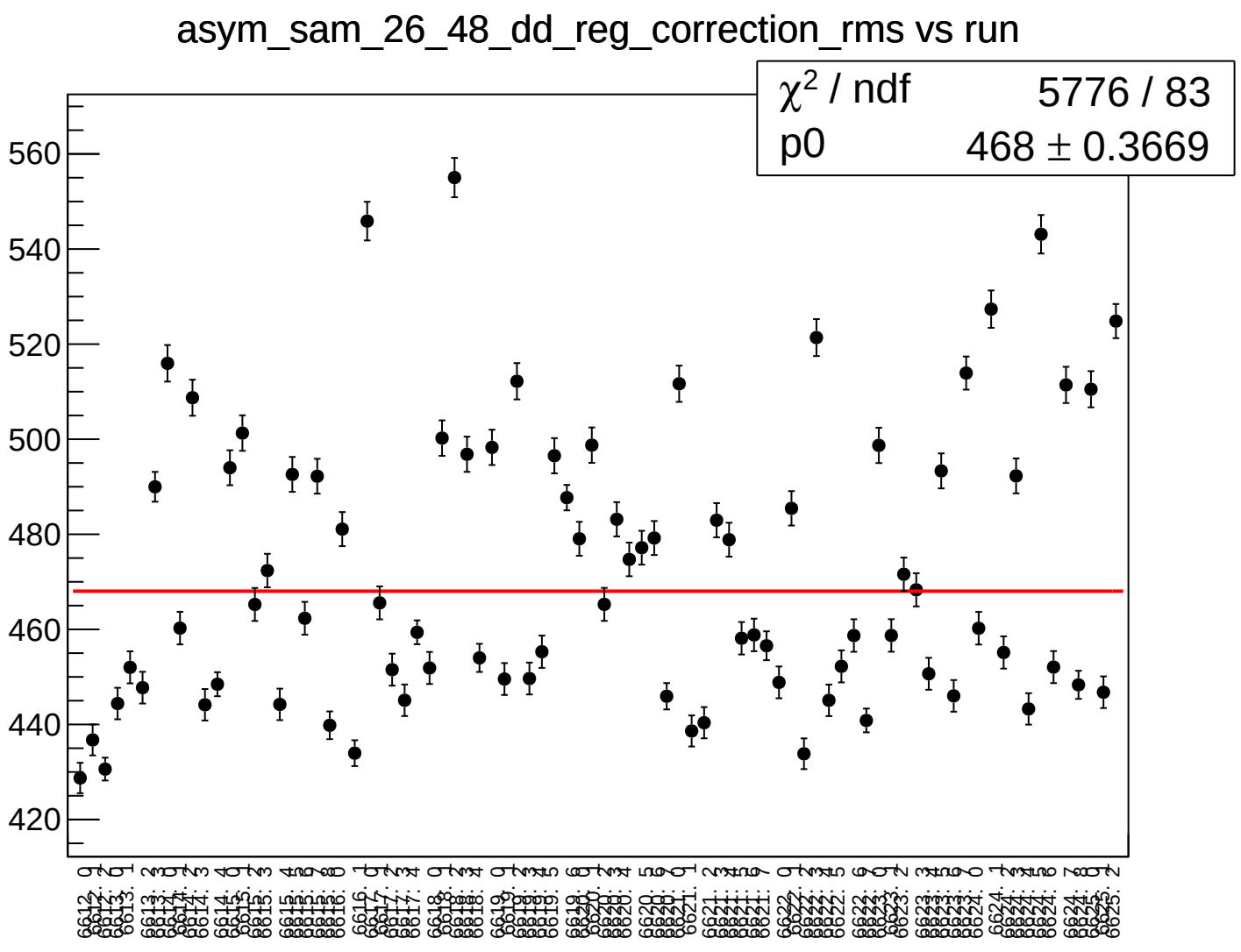

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.994e+05 / 83
p0 9.014e−12 ± 9.33e−15
90
80
70
60
50
40
30
20
10

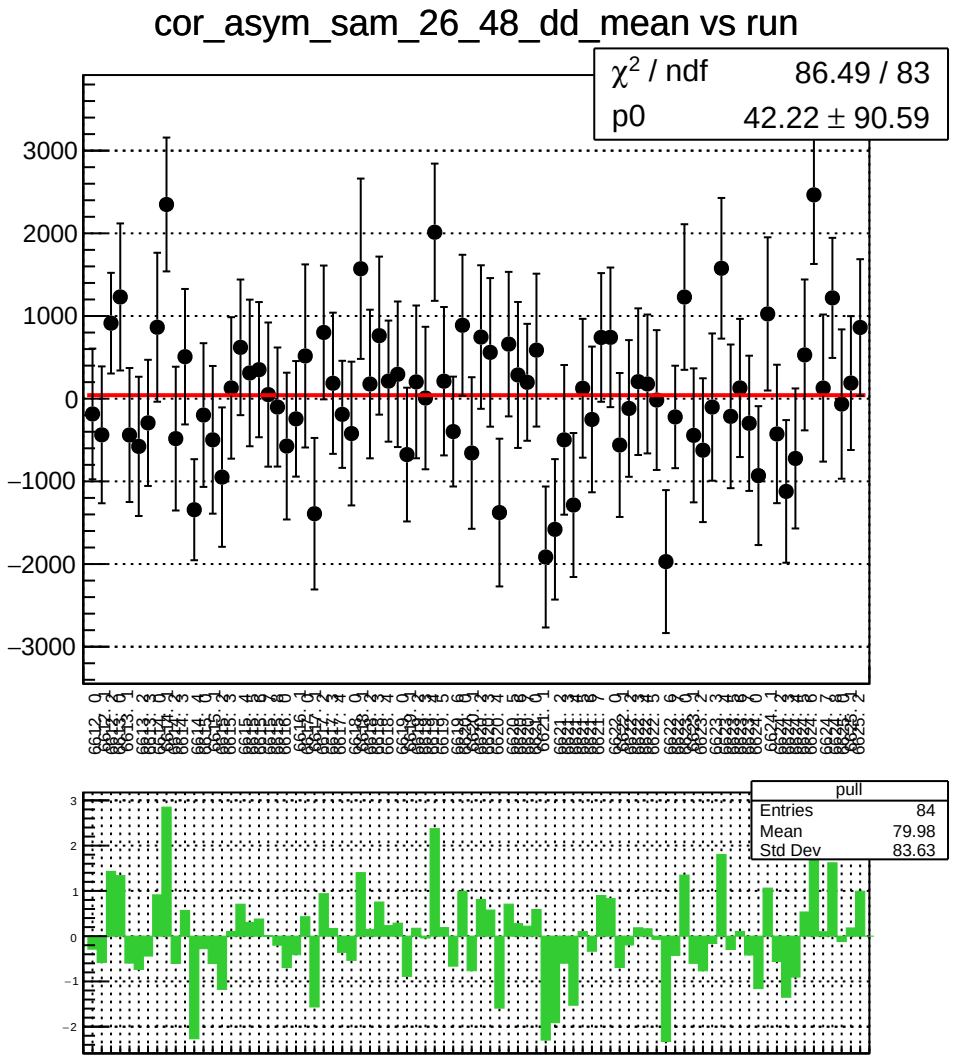

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 86.49 / 83
p0 42.24 ± 90.59
pull
Entries 84
Mean 80.04
Std Dev 83.6
pull1D
Entries 84
Mean 0.008772
Std Dev 1.015

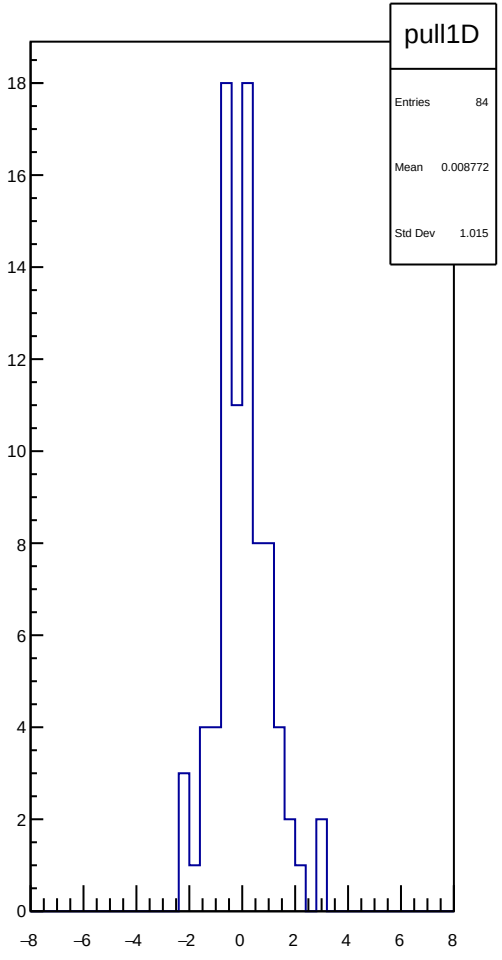

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 4387 / 83
p0 81.74 ± 0.06406
105
100
95
90
85
80
75

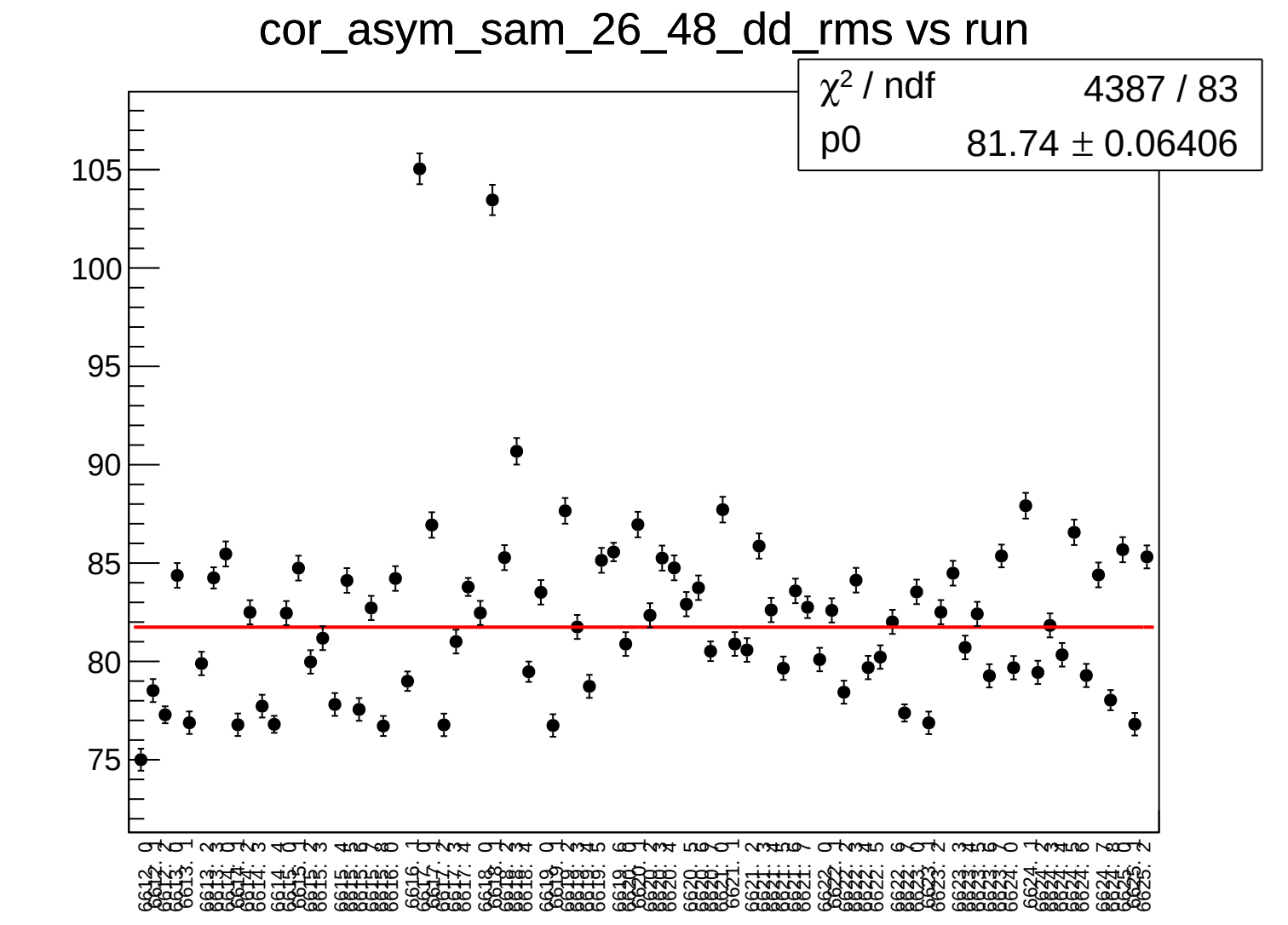

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 79 / 83
p0 942.4 ± 518.9
pull
Entries 84
Mean 101.4
Std Dev 0

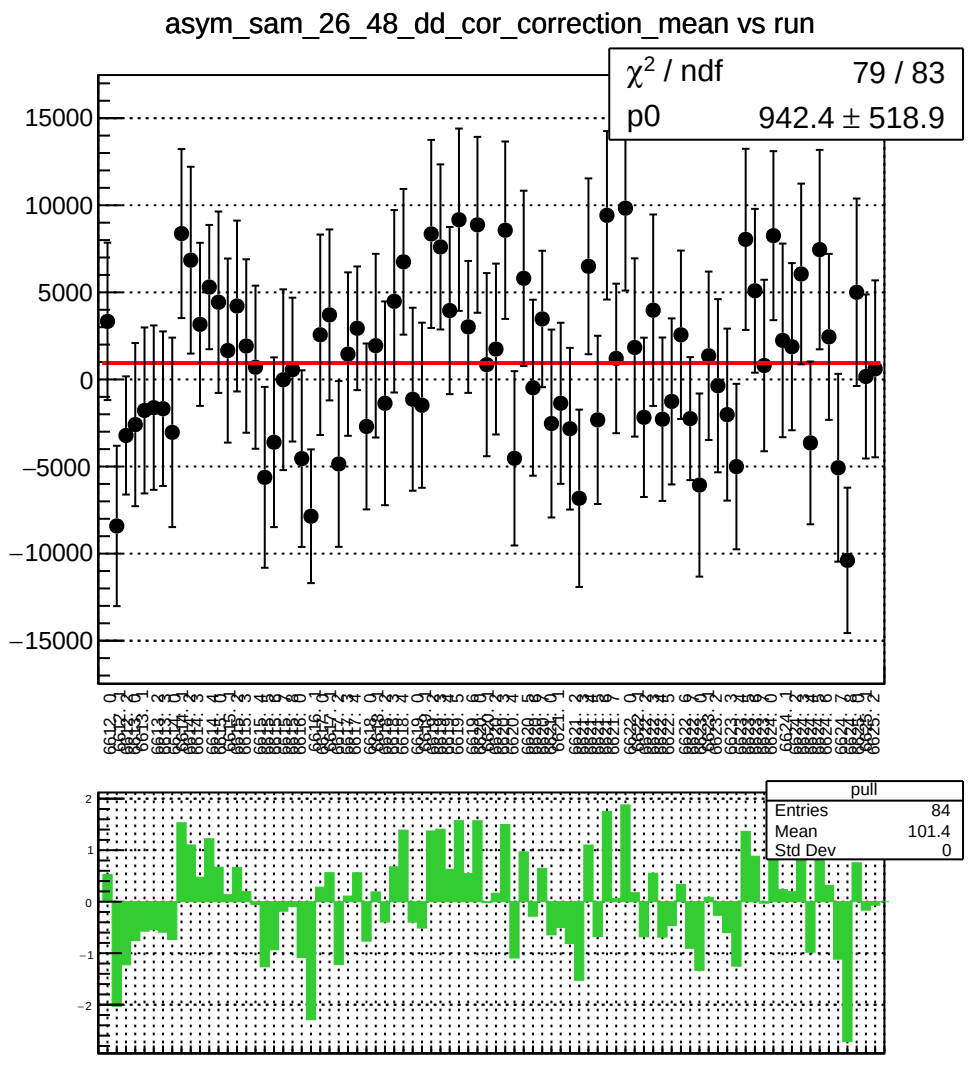

pull1D
Entries 84
Mean 0.01848
Std Dev 0.9696

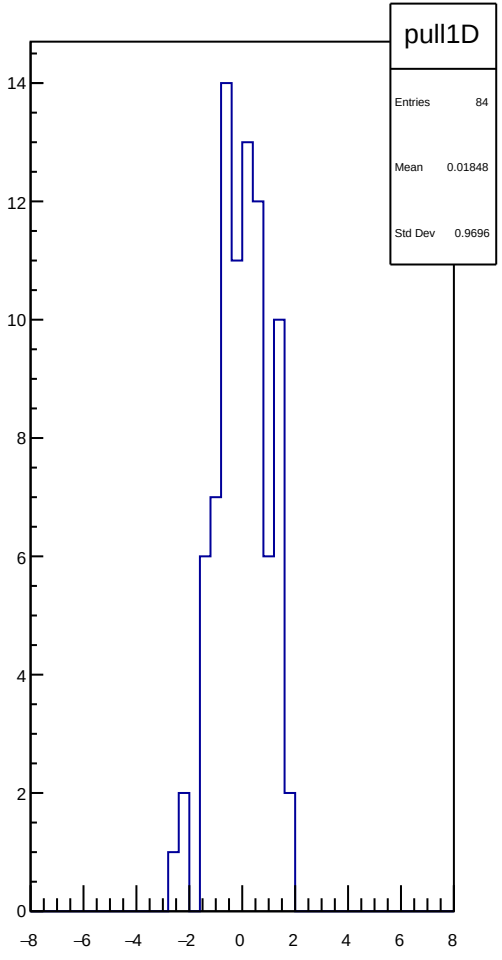

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 5776 / 83
p0 468 ± 0.3669
560
540
520
500
480
460
440
420

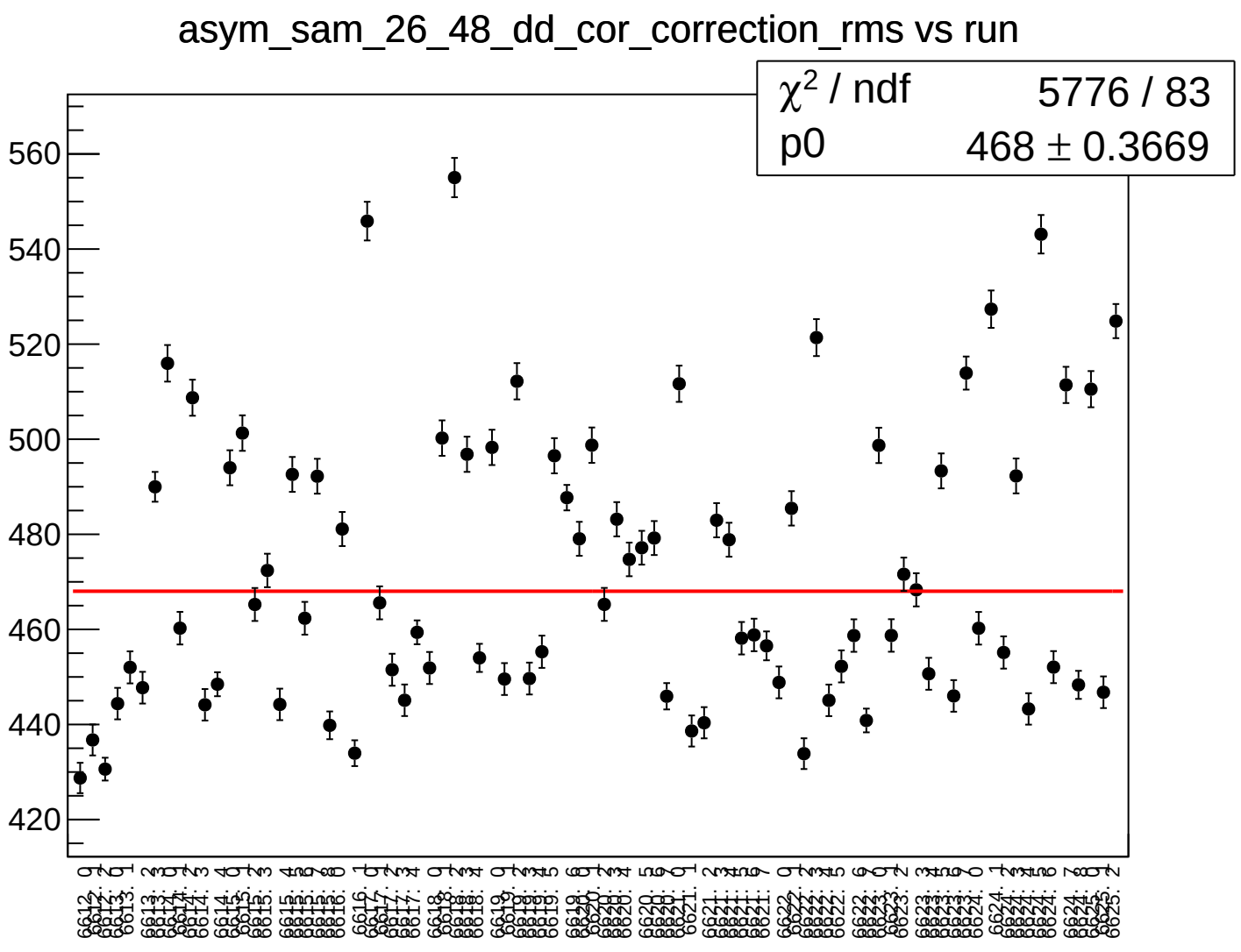

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 86.49 / 83
p0 42.22 ± 90.59
pull
Entries 84
Mean 79.98
Std Dev 83.63

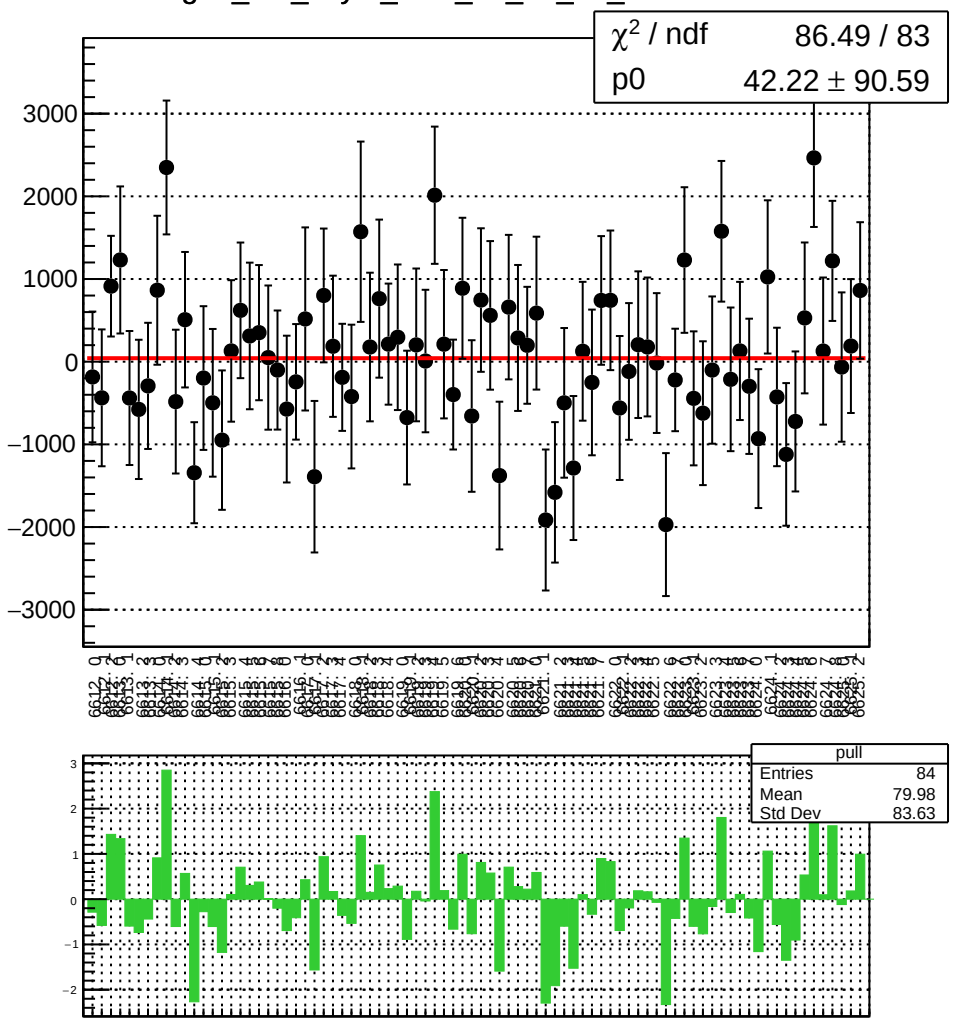

pull1D
Entries 84
Mean 0.008772
Std Dev 1.015

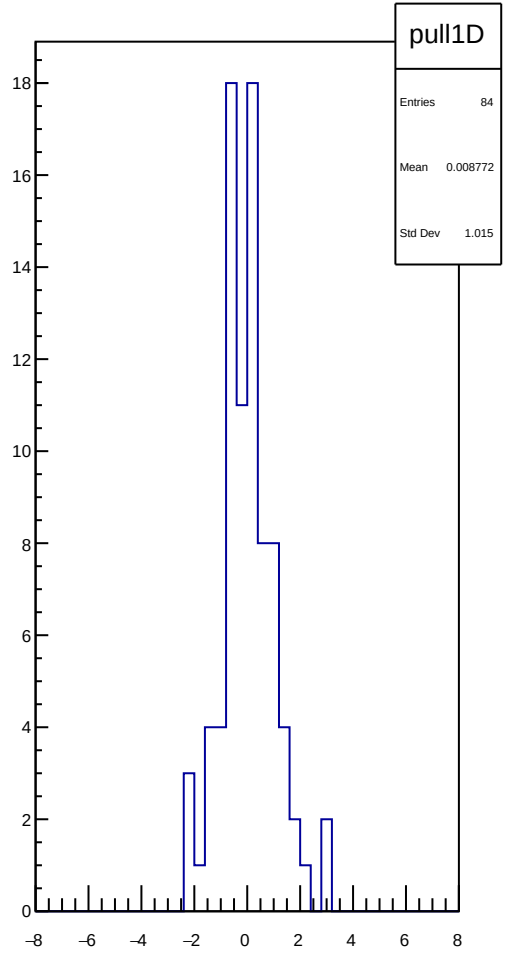

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 4387 / 83
p0 81.74 ± 0.06406
105
100
95
90
85
80
75

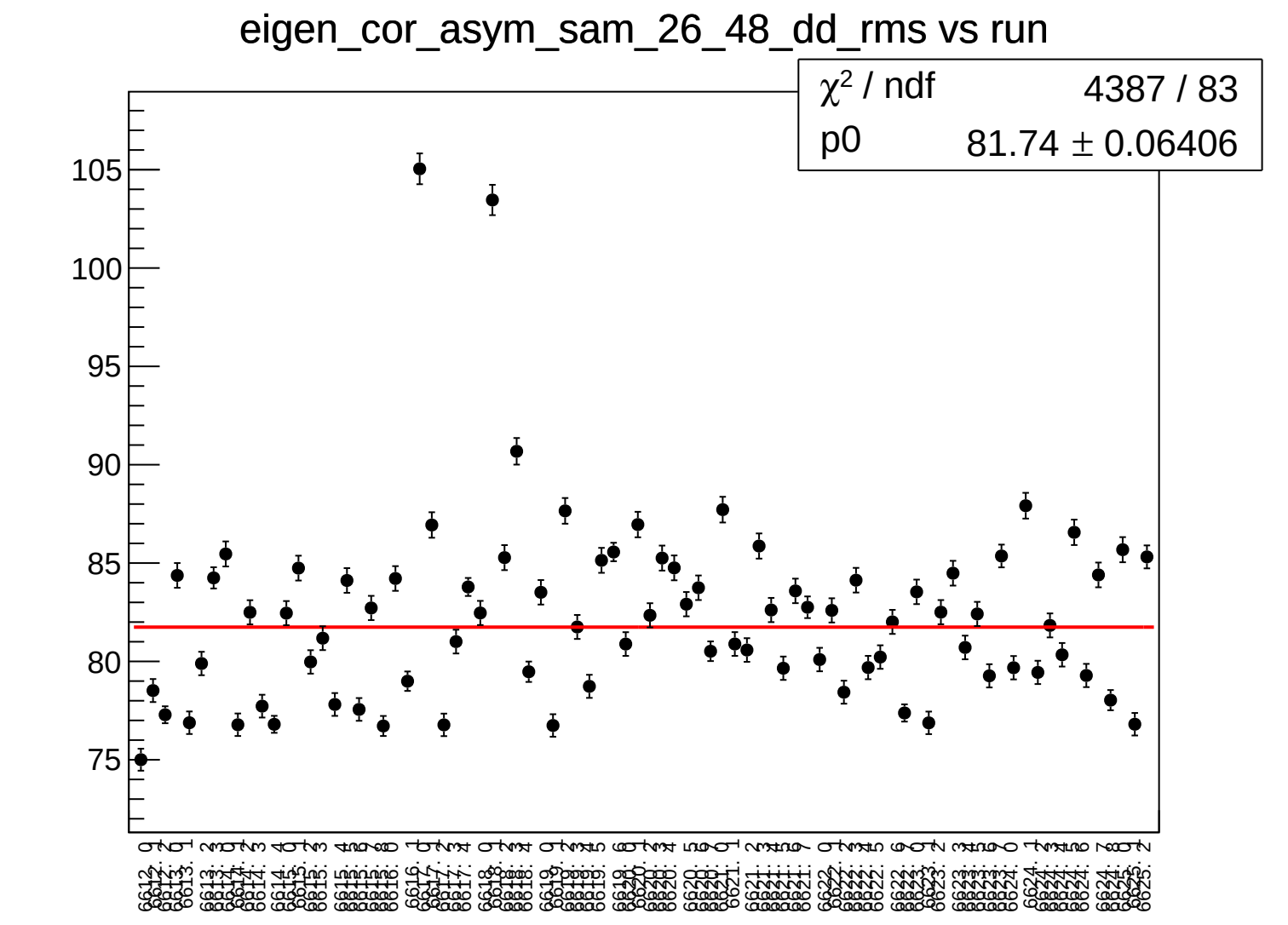

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 79 / 83
p0 942.4 ± 518.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 101.4
Std Dev 0
2
1
0
−1
−2

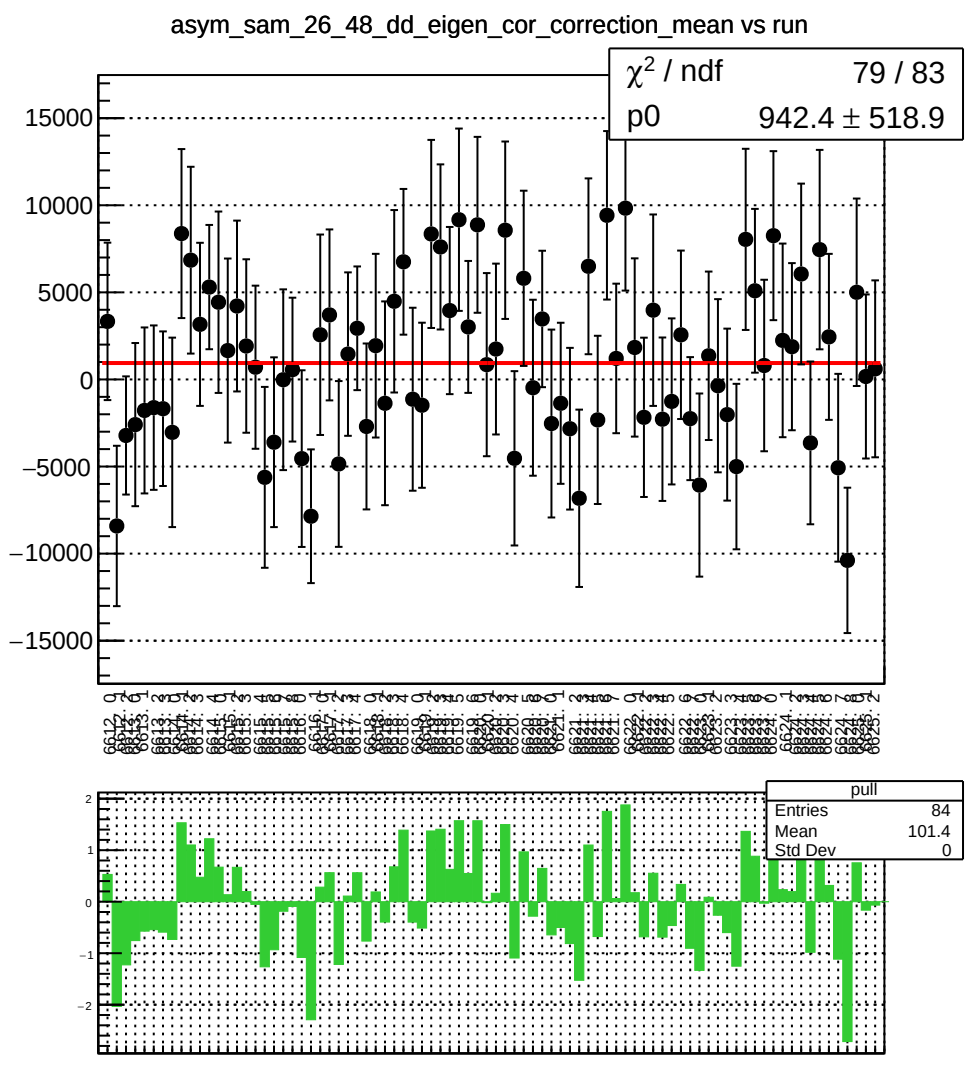

pull1D
Entries 84
Mean 0.01848
Std Dev 0.9696
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

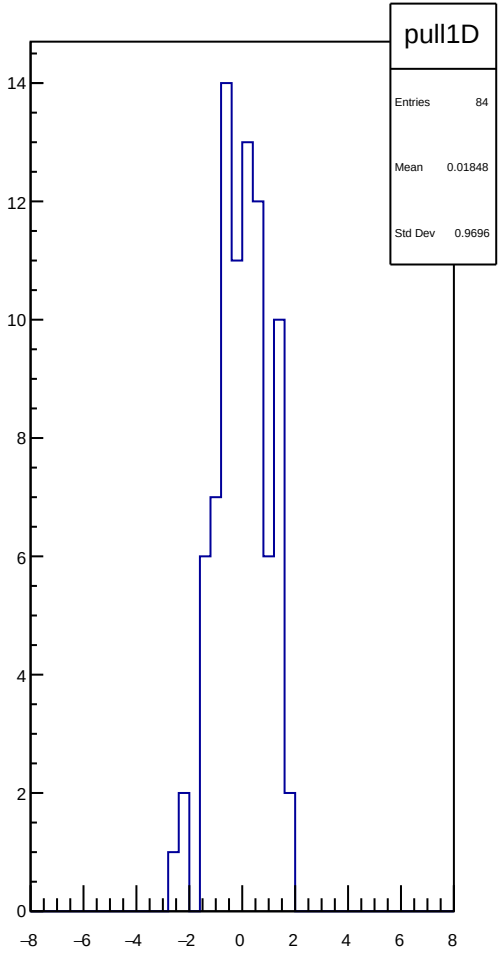

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 5776 / 83
p0 468 ± 0.3669
560
540
520
500
480
460
440
420

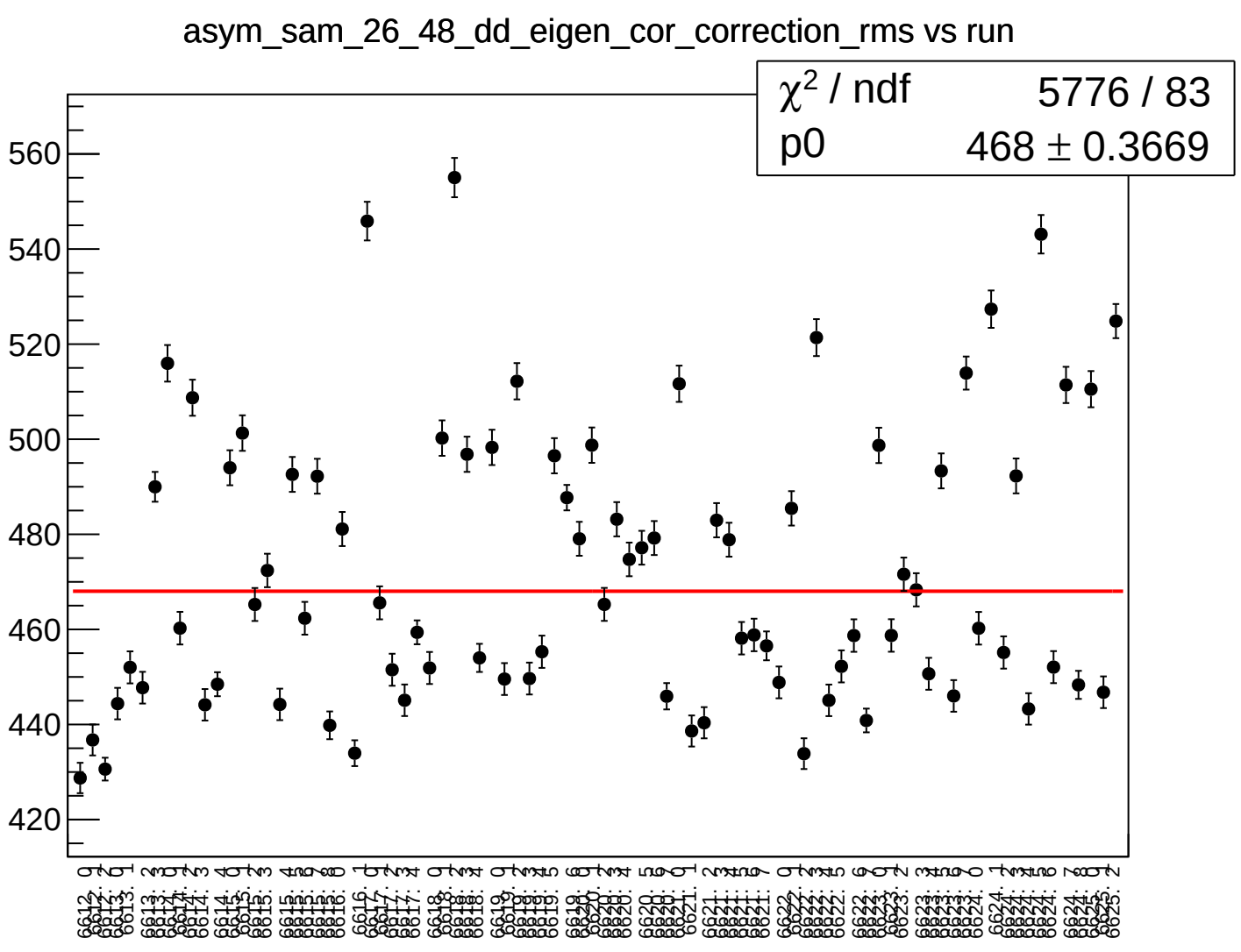

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 86.49 / 83
p0 42.22 ± 90.59
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 79.98
Std Dev 83.63
3
2
1
0
−1
−2

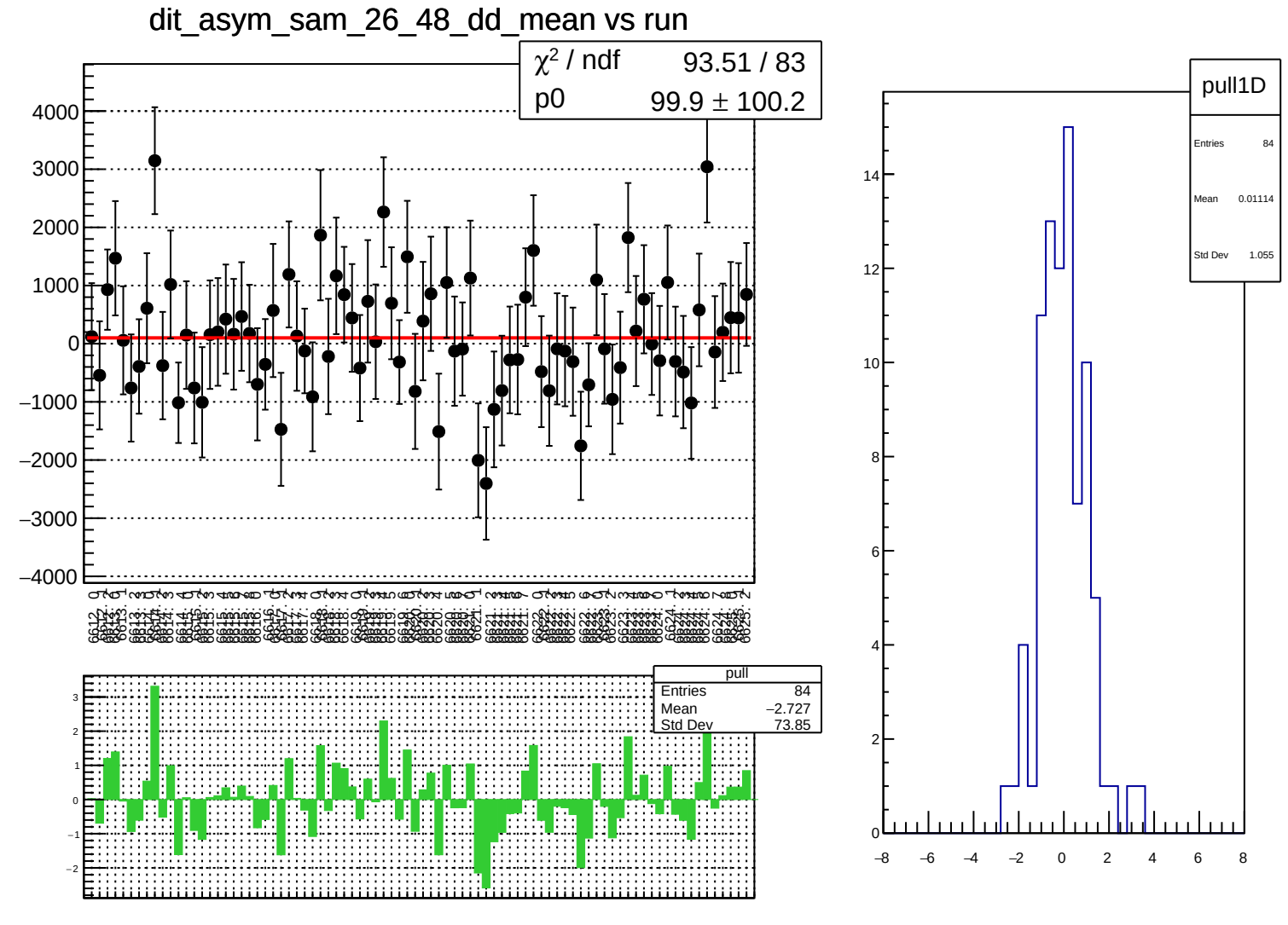

pull1D
Entries 84
Mean 0.008772
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

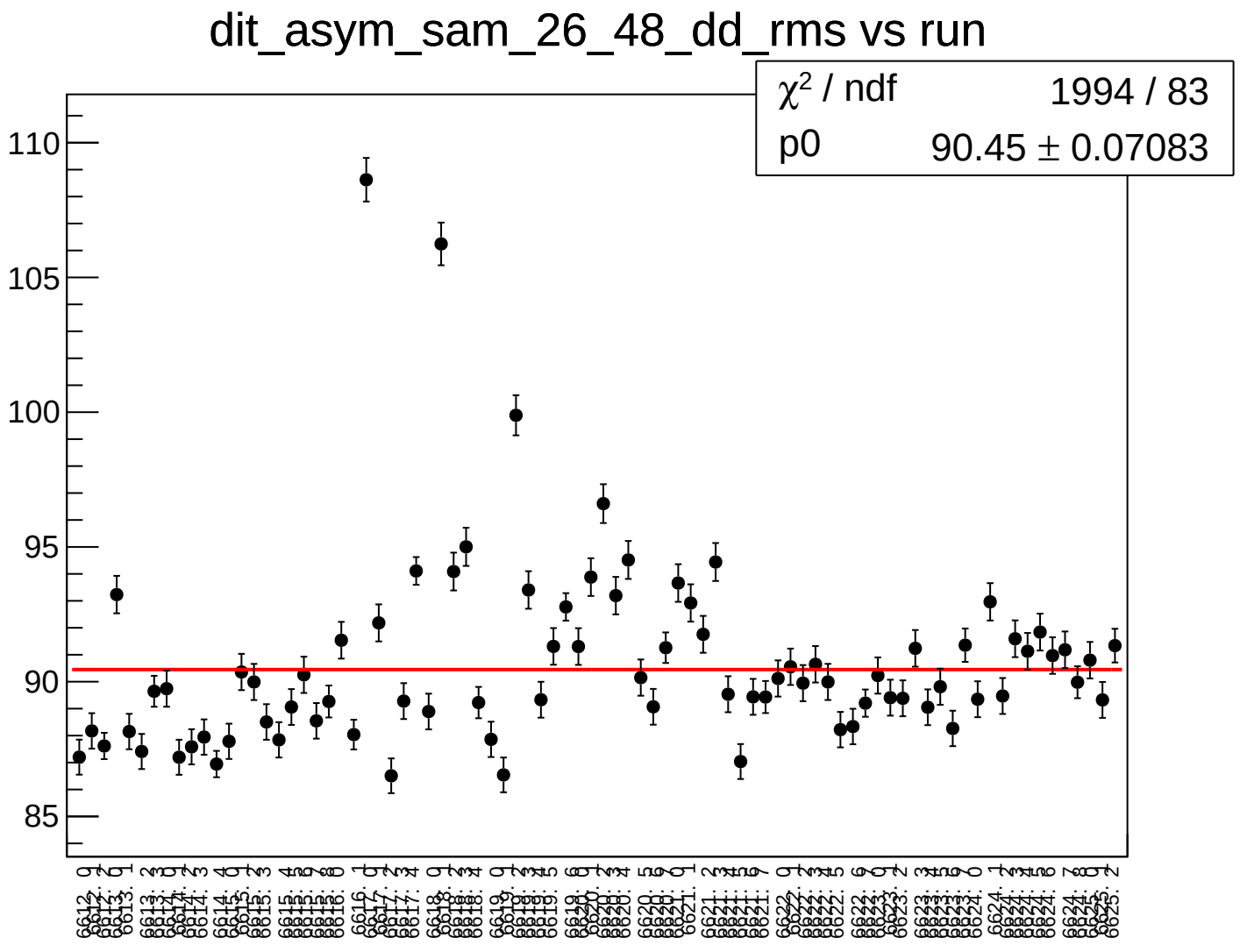

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 4387 / 83
p0 81.74 ± 0.06406
105
100
95
90
85
80
75

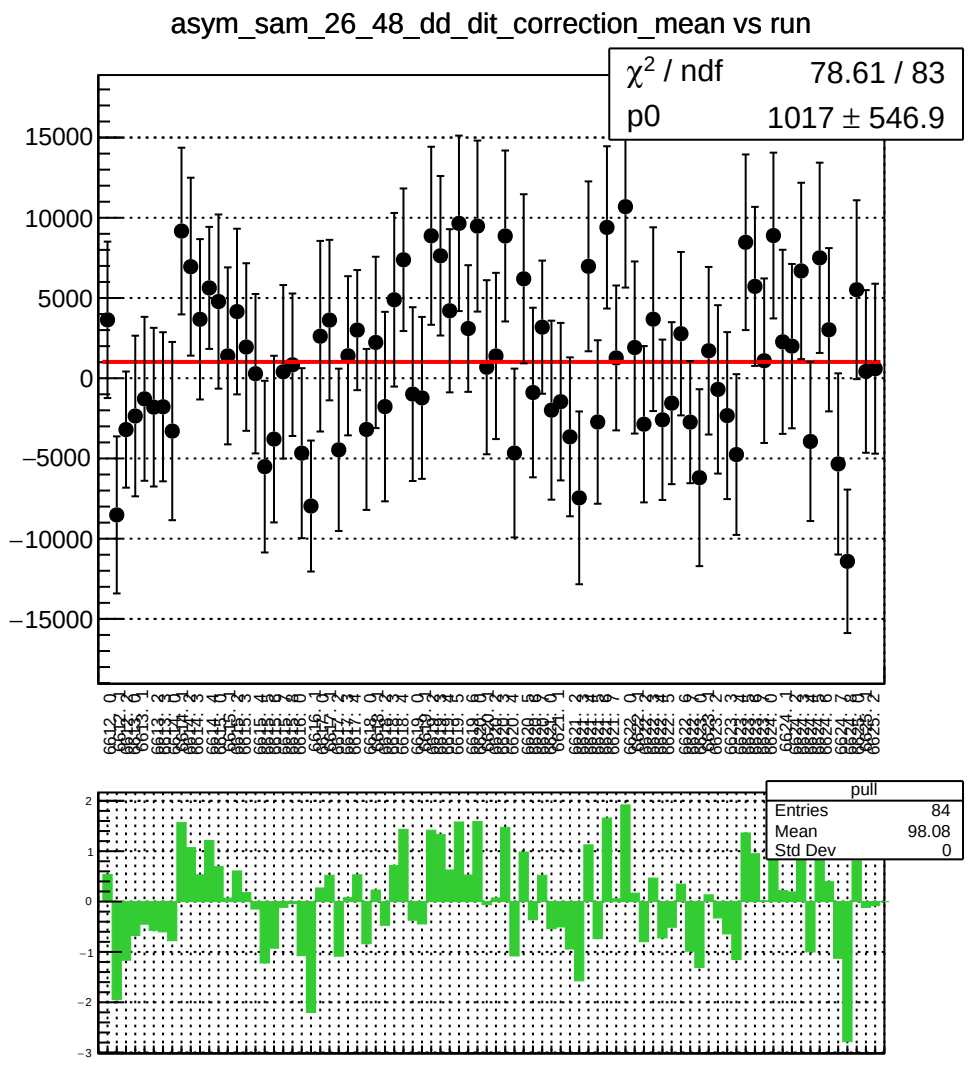

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 79 / 83
p0 942.4 ± 518.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 101.4
Std Dev 0
2
1
0
−1
−2

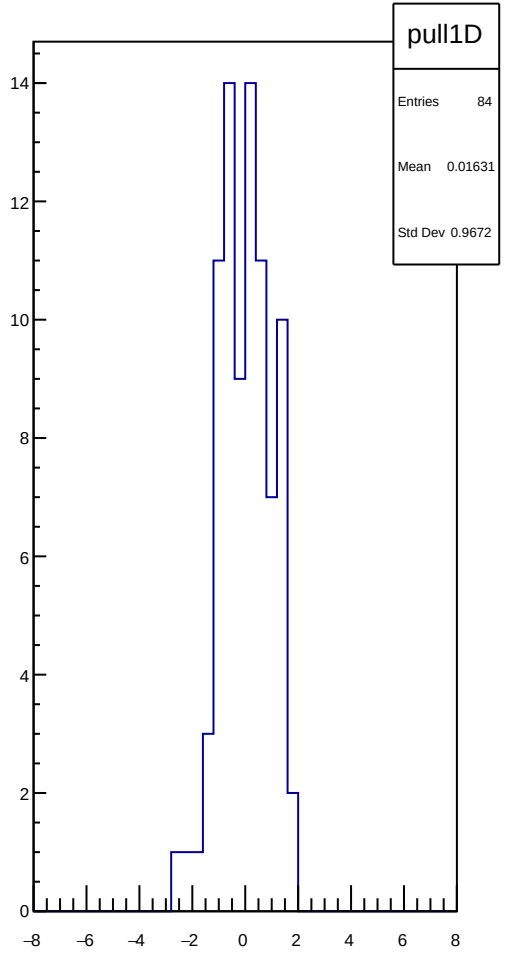

pull1D
Entries 84
Mean 0.01848
Std Dev 0.9696
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

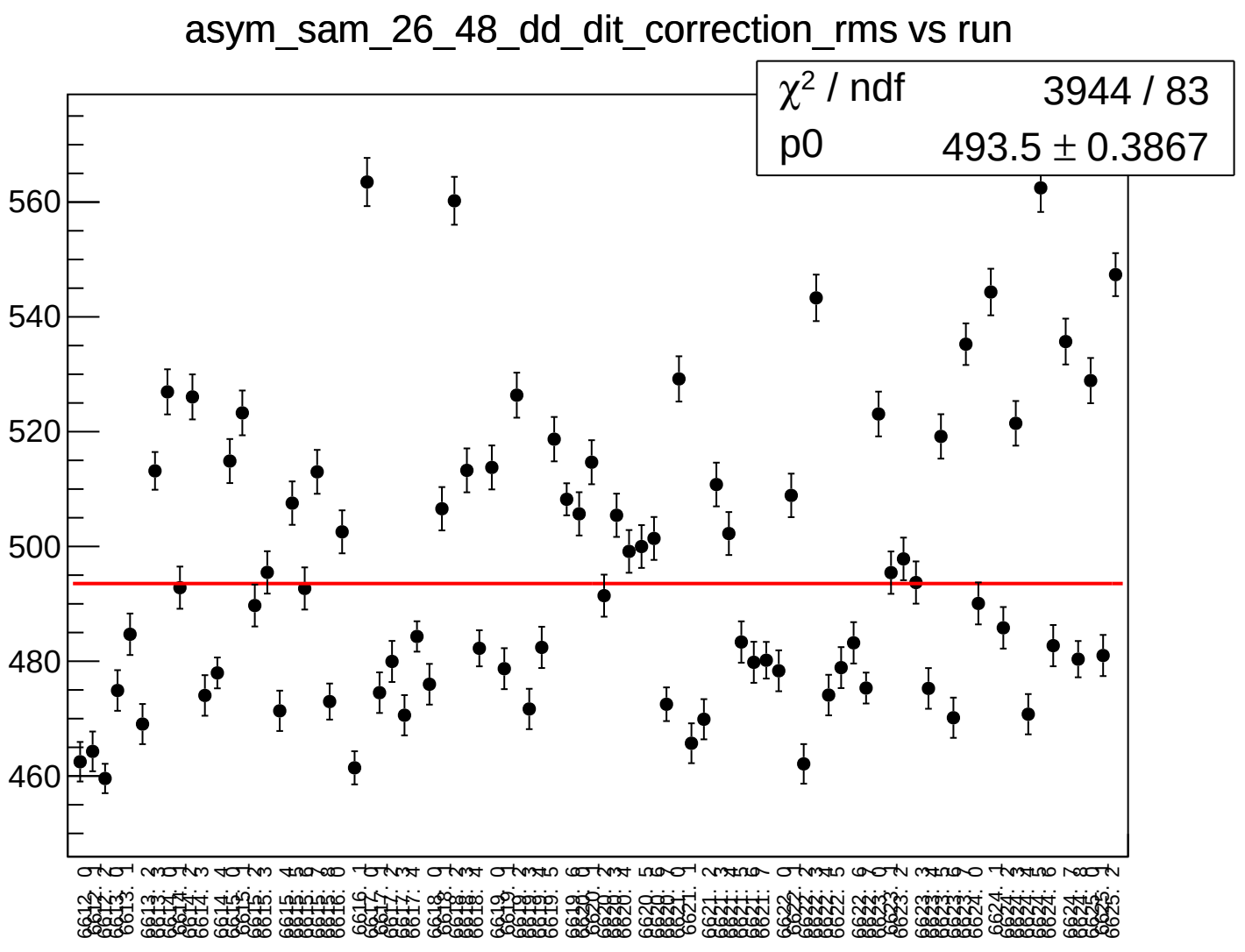

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5776 / 83
p0 468 ± 0.3669
560
540
520
500
480
460
440
420

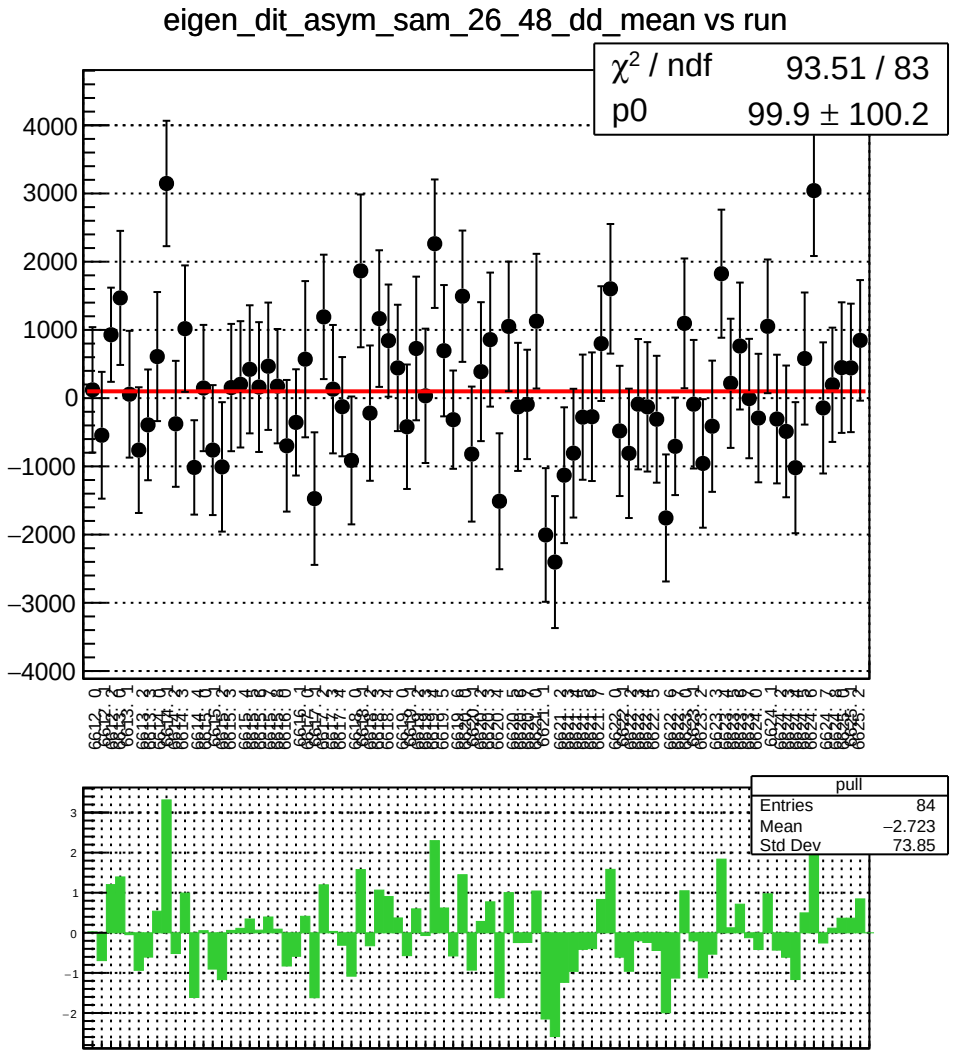

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 93.51 / 83
p0 99.9 ± 100.2
pull
Entries 84
Mean −2.727
Std Dev 73.85
pull1D
Entries 84
Mean 0.01114
Std Dev 1.055

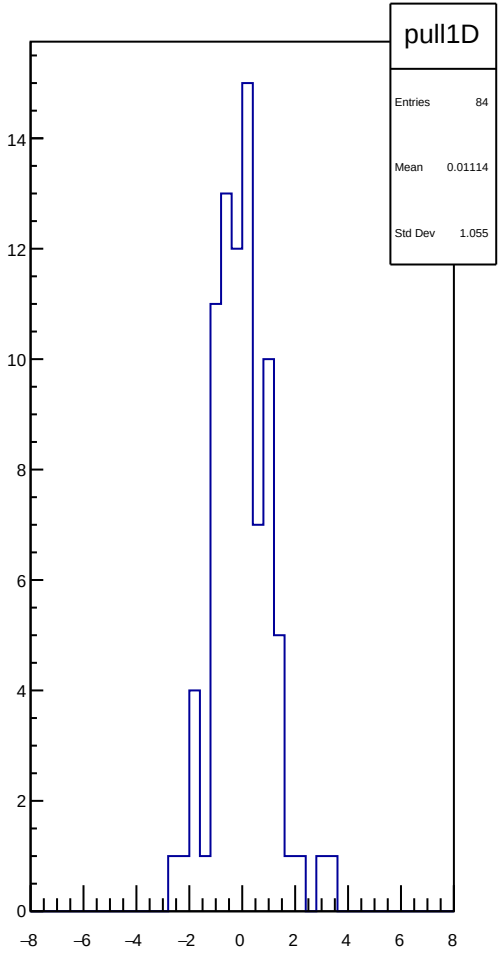

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1994 / 83
p0 90.45 ± 0.07083
110
105
100
95
90
85

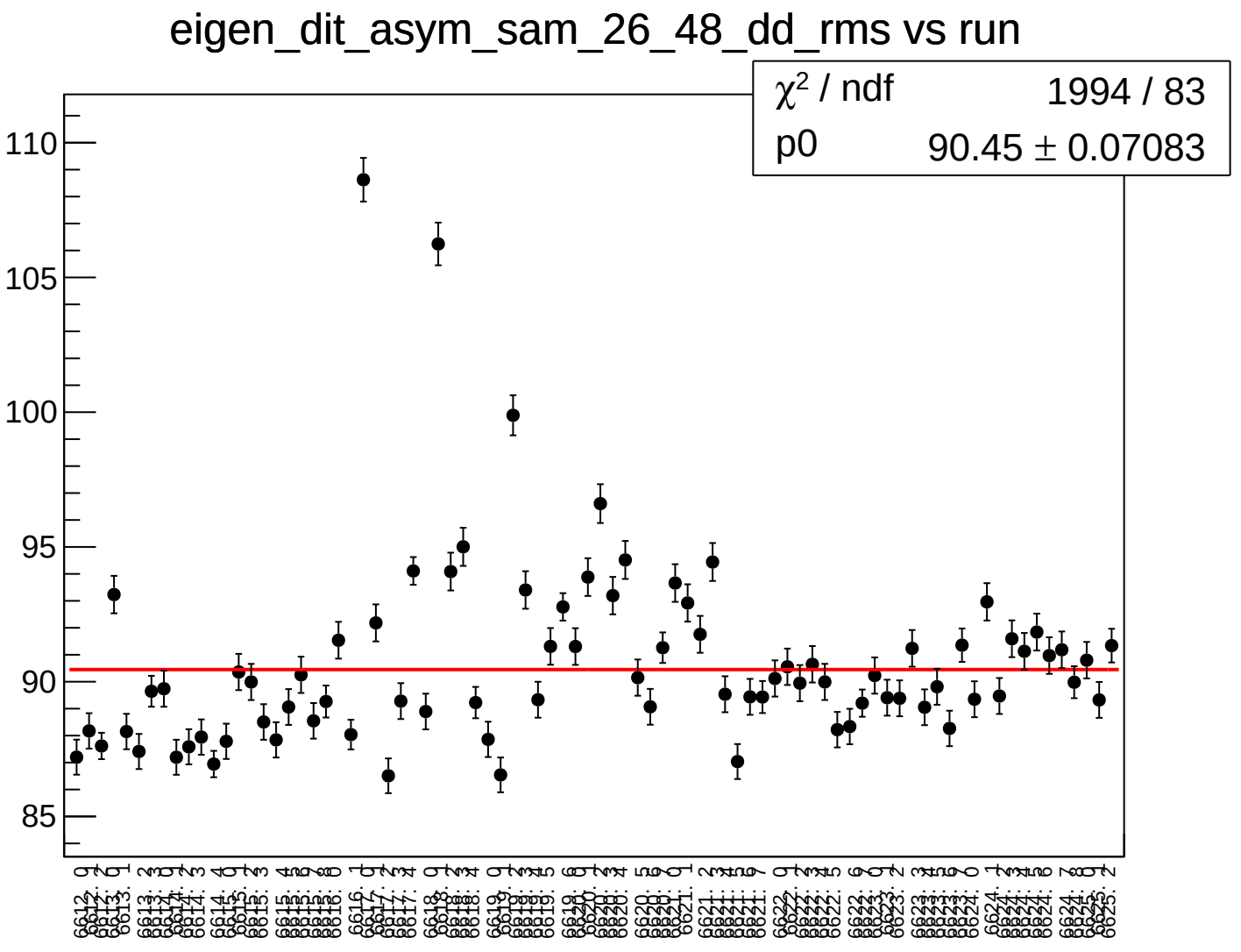

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 78.61 / 83
p0 1017 ± 546.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 98.08
Std Dev 0
2
1
0
−1
−2
−3

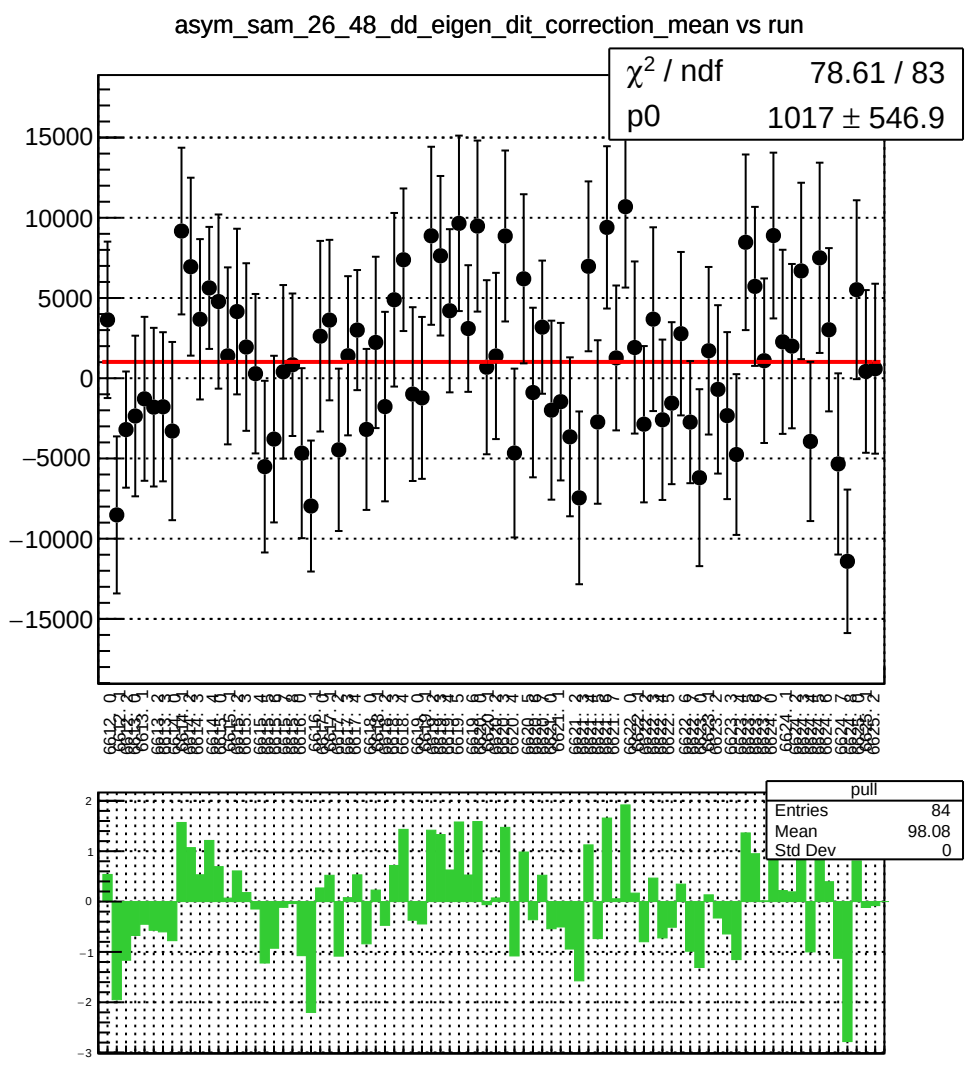

pull1D
Entries 84
Mean 0.01631
Std Dev 0.9672
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

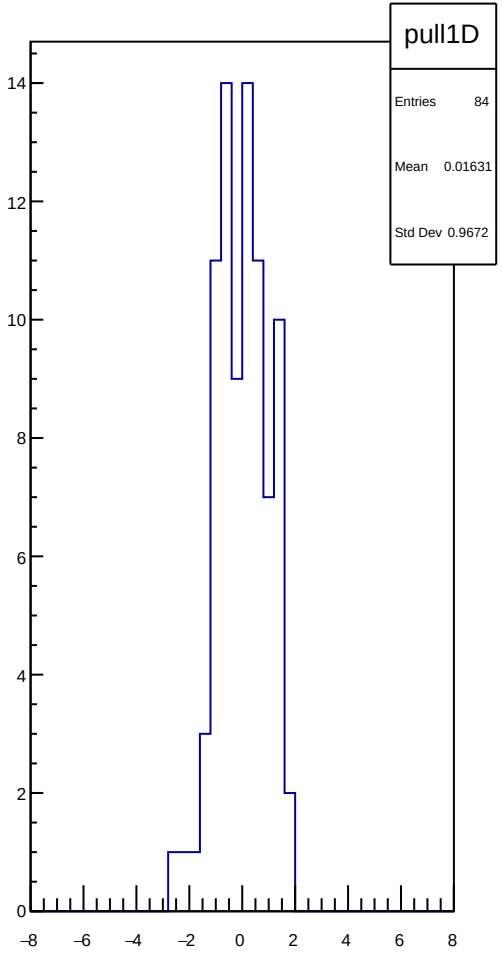

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 3944 / 83
p0 493.5 ± 0.3867
560
540
520
500
480
460

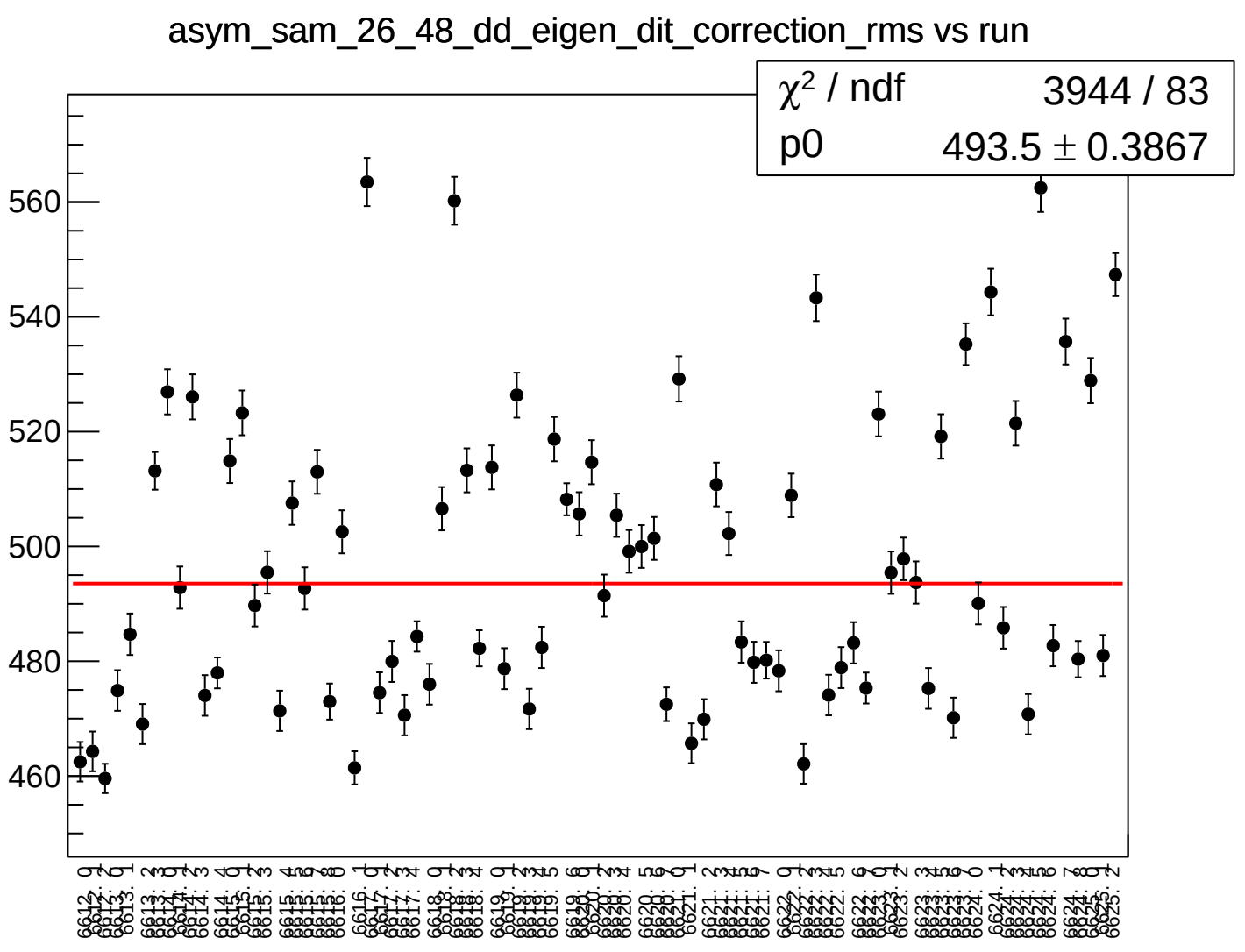

eigen_dit_asym_sam_26_48_dd_mean vs run
χ^2 / ndf 93.51 / 83
p0 99.9 ± 100.2
pull
Entries 84
Mean −2.723
Std Dev 73.85

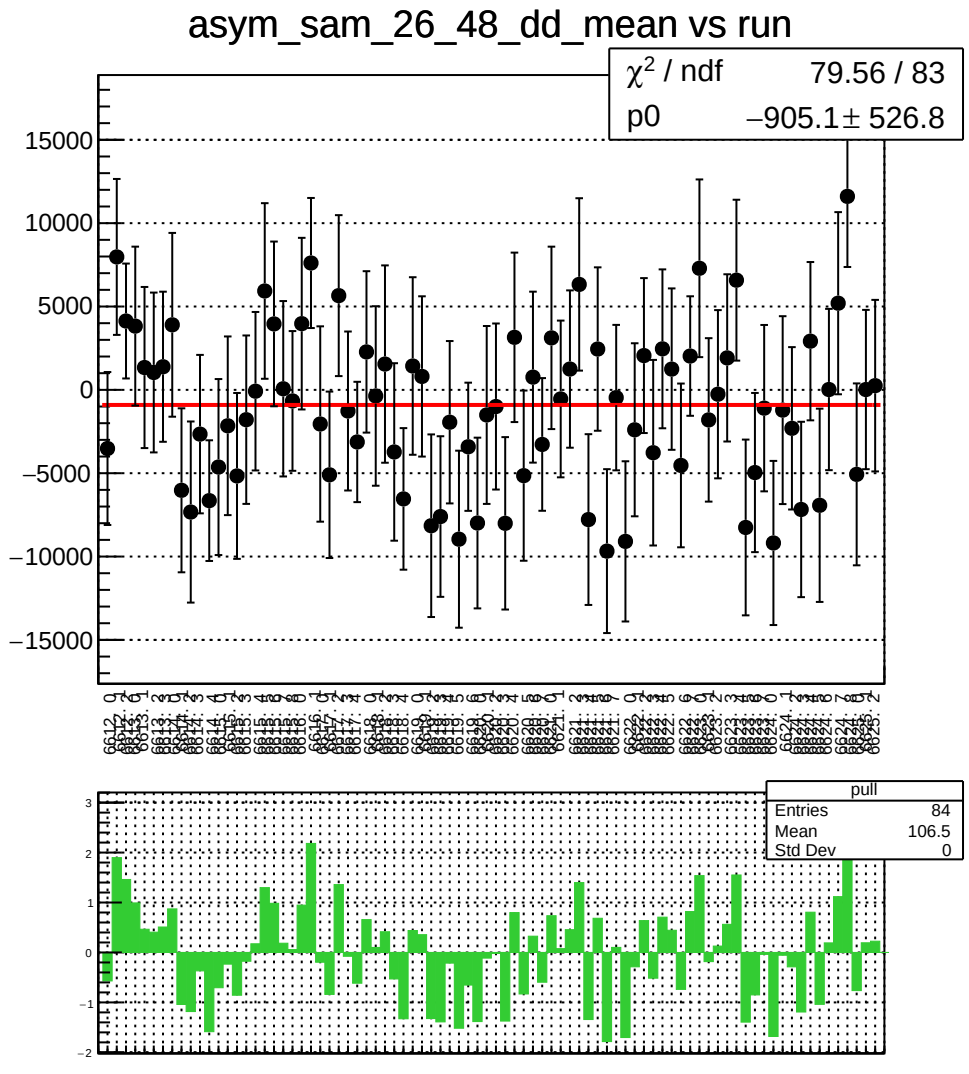

pull1D
Entries 84
Mean 0.01114
Std Dev 1.055

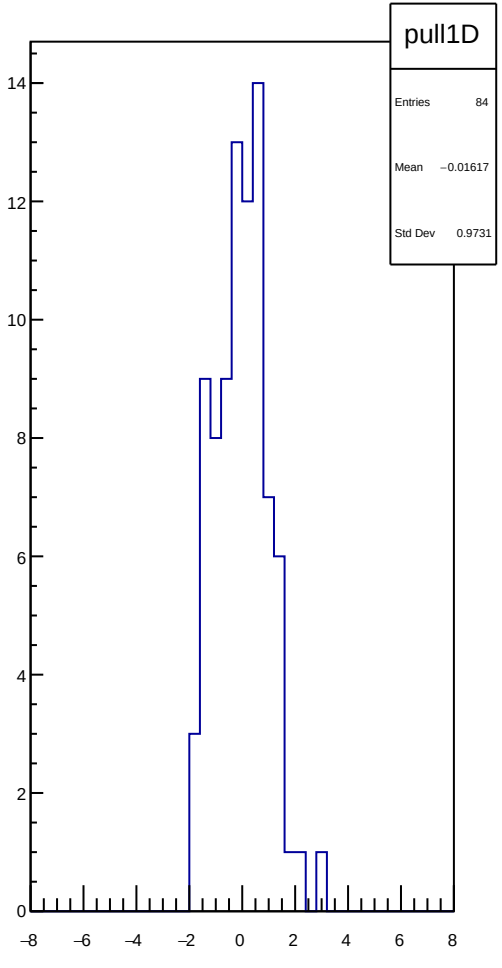

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1994 / 83
p0 90.45 ± 0.07083
110
105
100
95
90
85

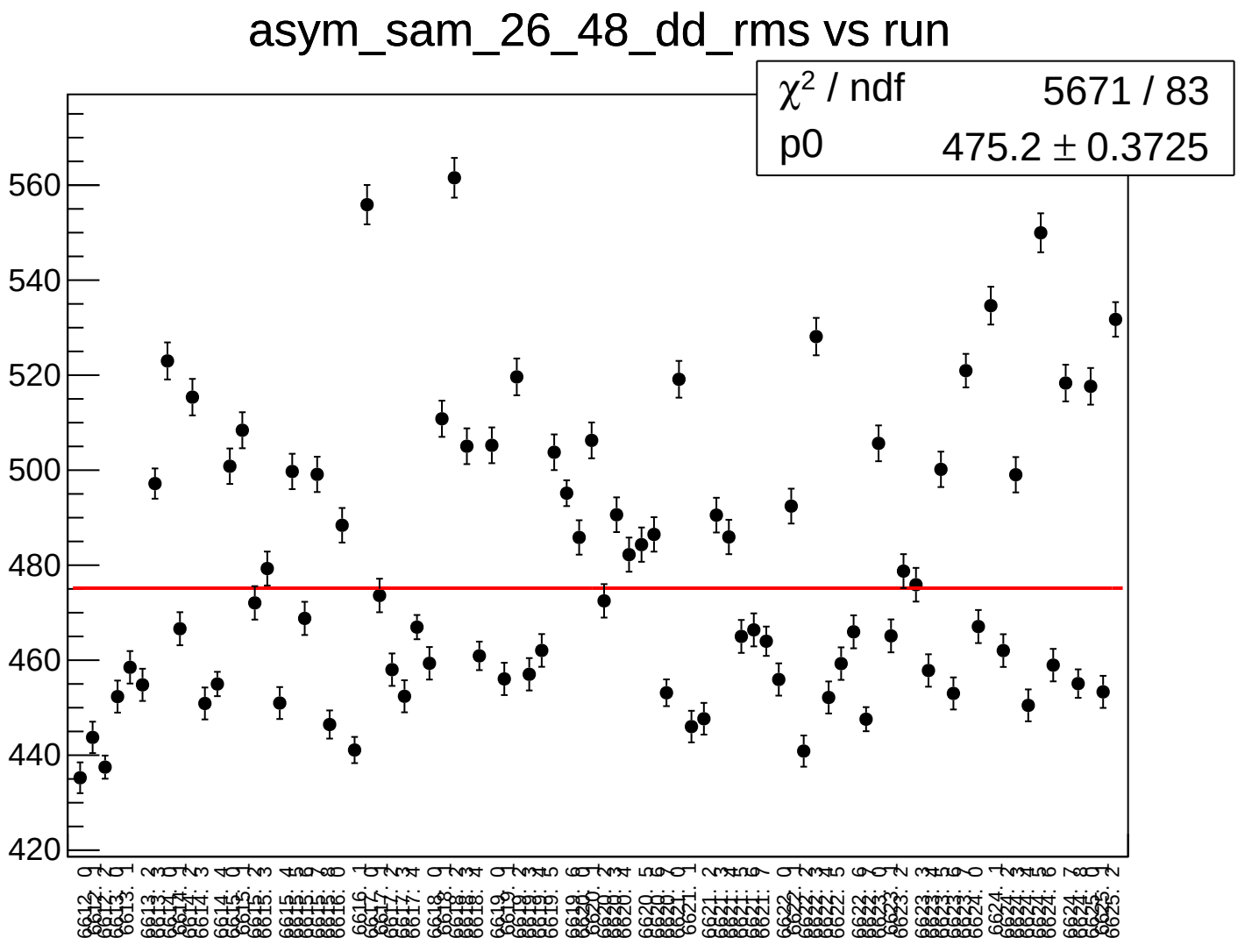

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.61 / 83
p0 1017 ± 546.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 98.08
Std Dev 0
2
1
0
−1
−2
−3

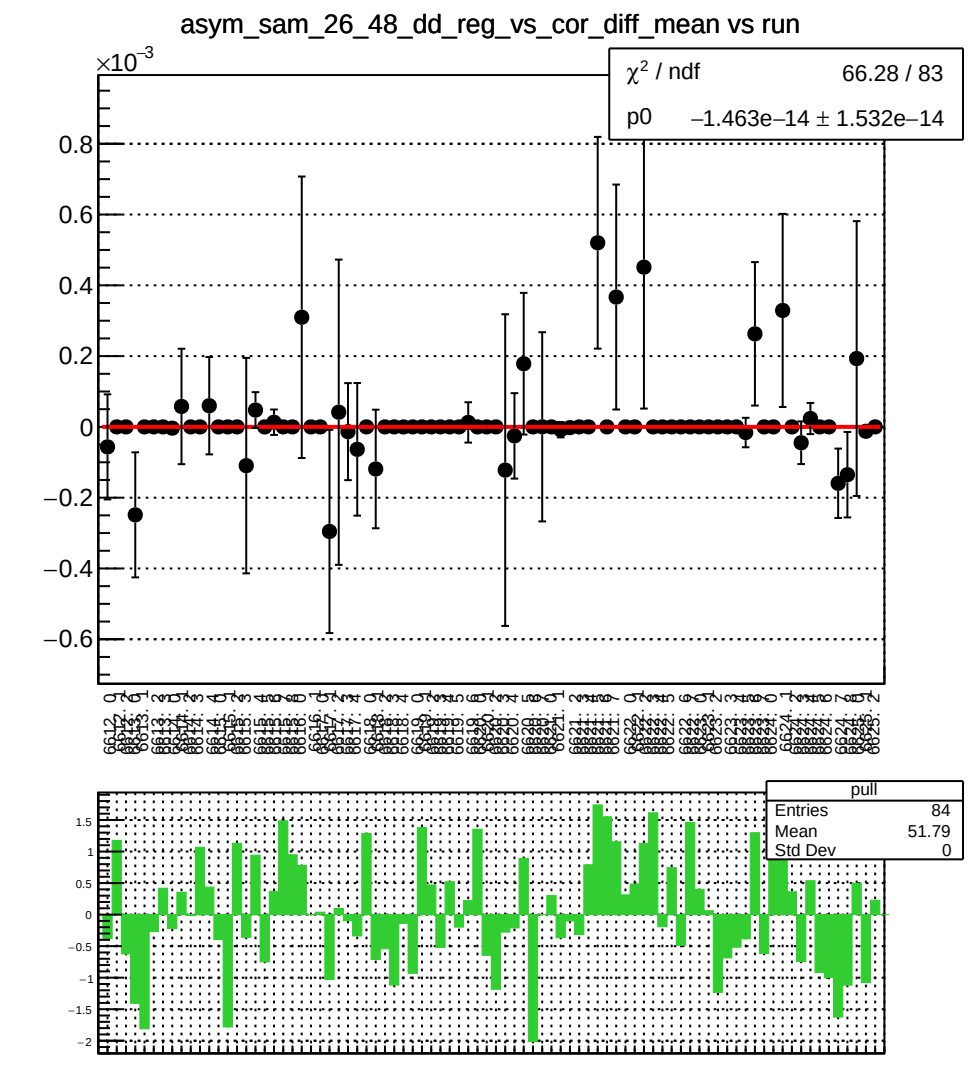

pull1D
Entries 84
Mean 0.01631
Std Dev 0.9672
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

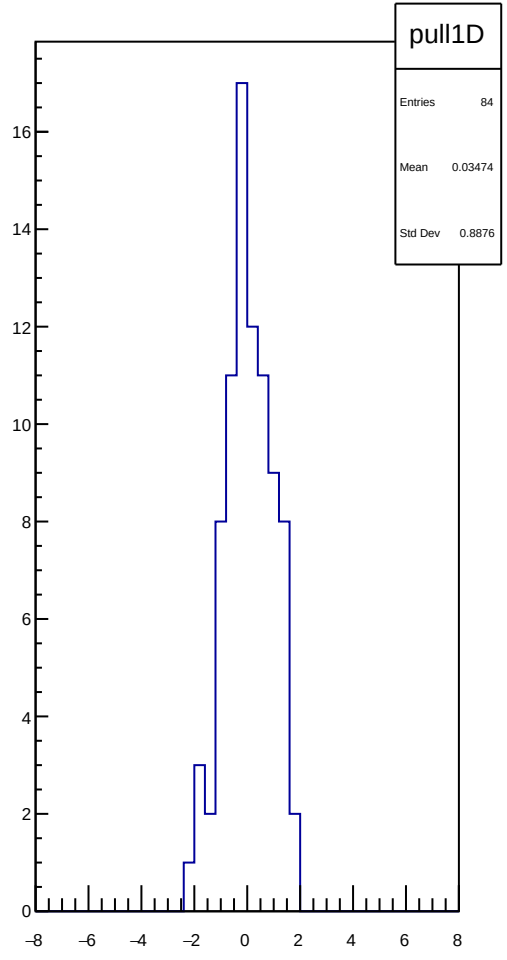

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3944 / 83
p0 493.5 ± 0.3867
560
540
520
500
480
460

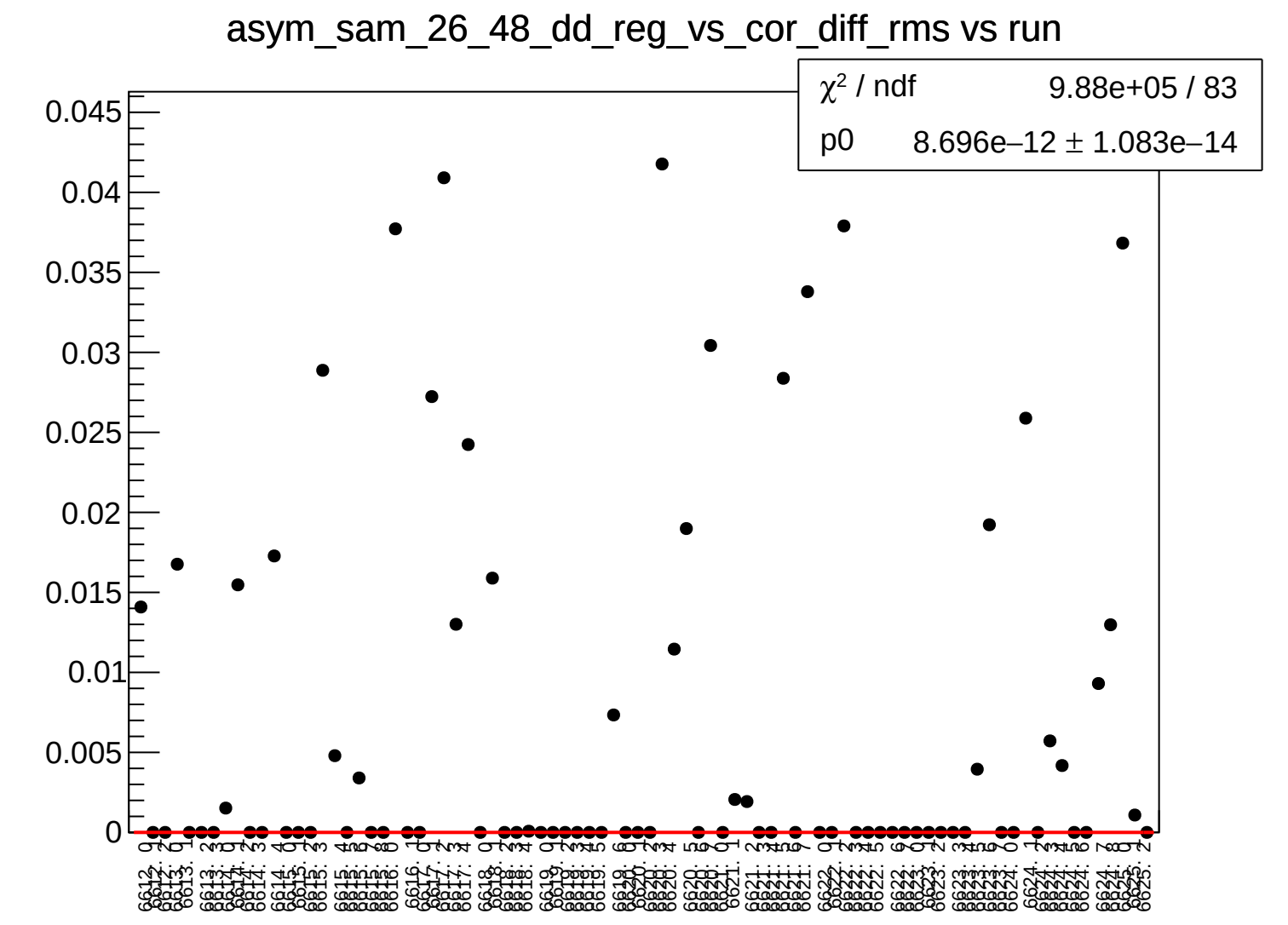

asym_sam_26_48_dd_mean vs run
χ² / ndf 79.56 / 83
p0 −905.1± 526.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 106.5
Std Dev 0
3
2
1
0
−1
−2

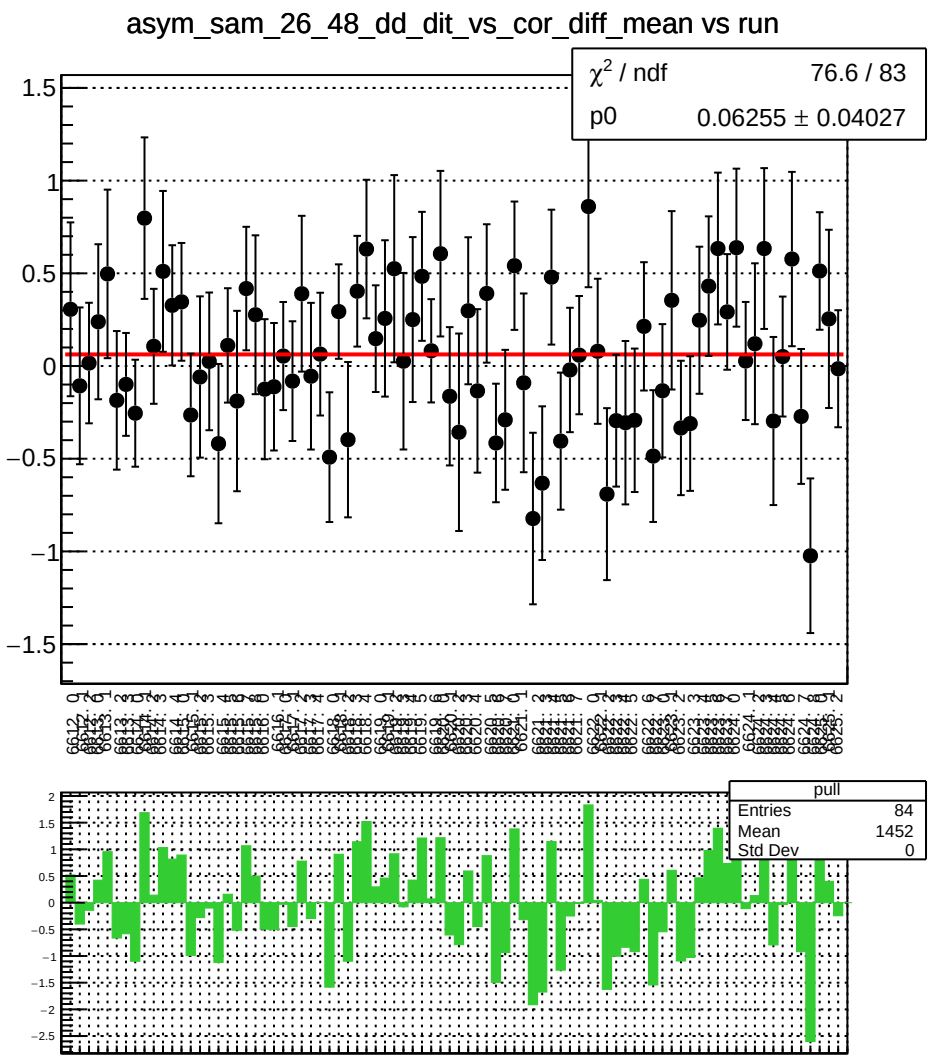

pull1D
Entries 84
Mean −0.01617
Std Dev 0.9731
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

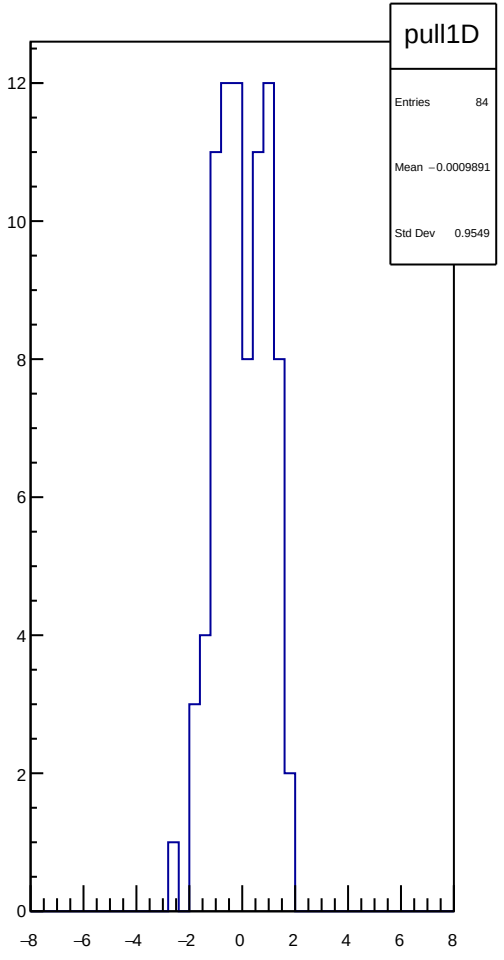

asym_sam_26_48_dd_rms vs run
χ^2 / ndf 5671 / 83
p0 475.2 ± 0.3725
560
540
520
500
480
460
440
420

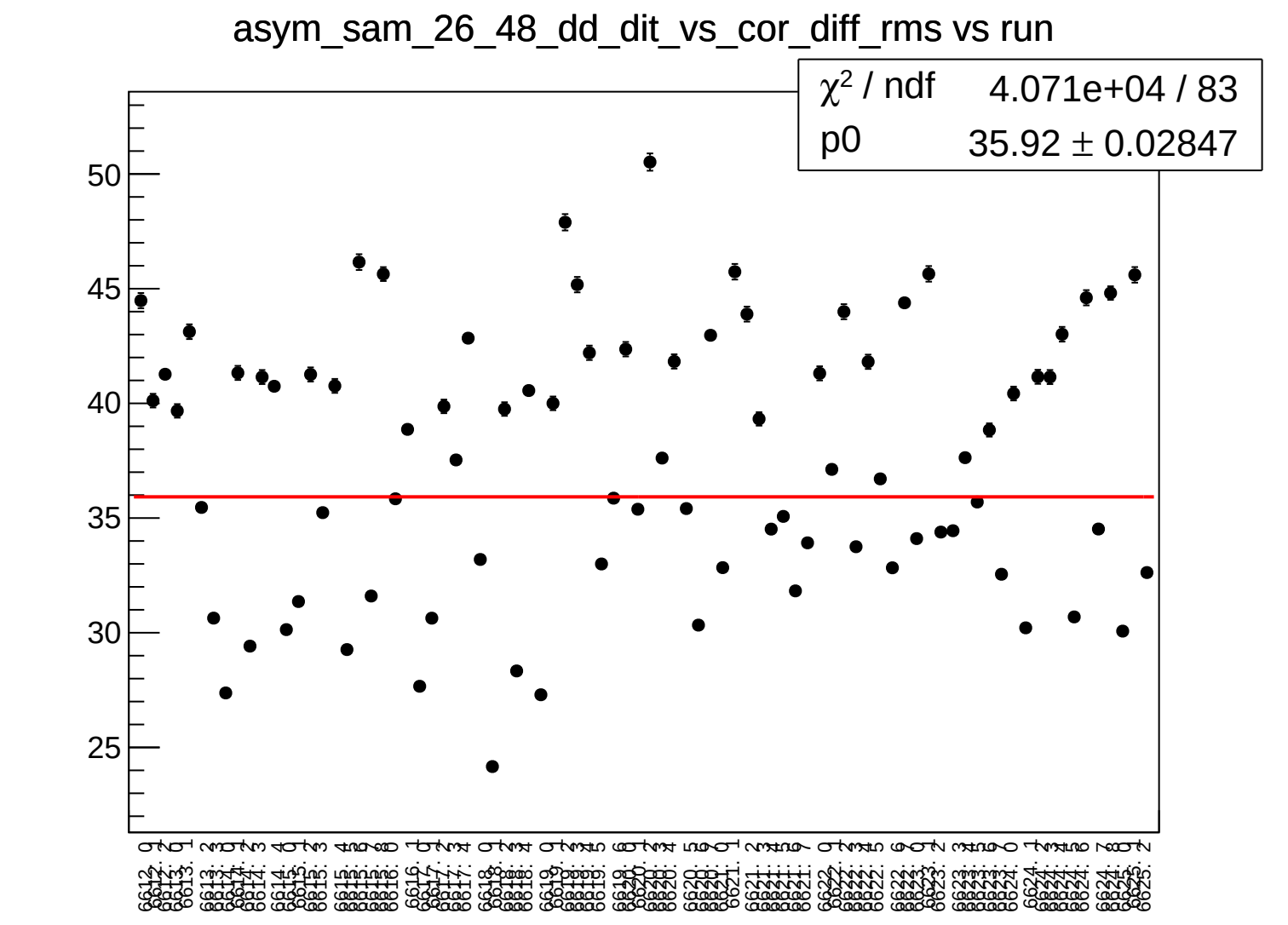

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 66.28 / 83
p0 −1.463e−14 ± 1.532e−14
pull
Entries 84
Mean 51.79
Std Dev 0

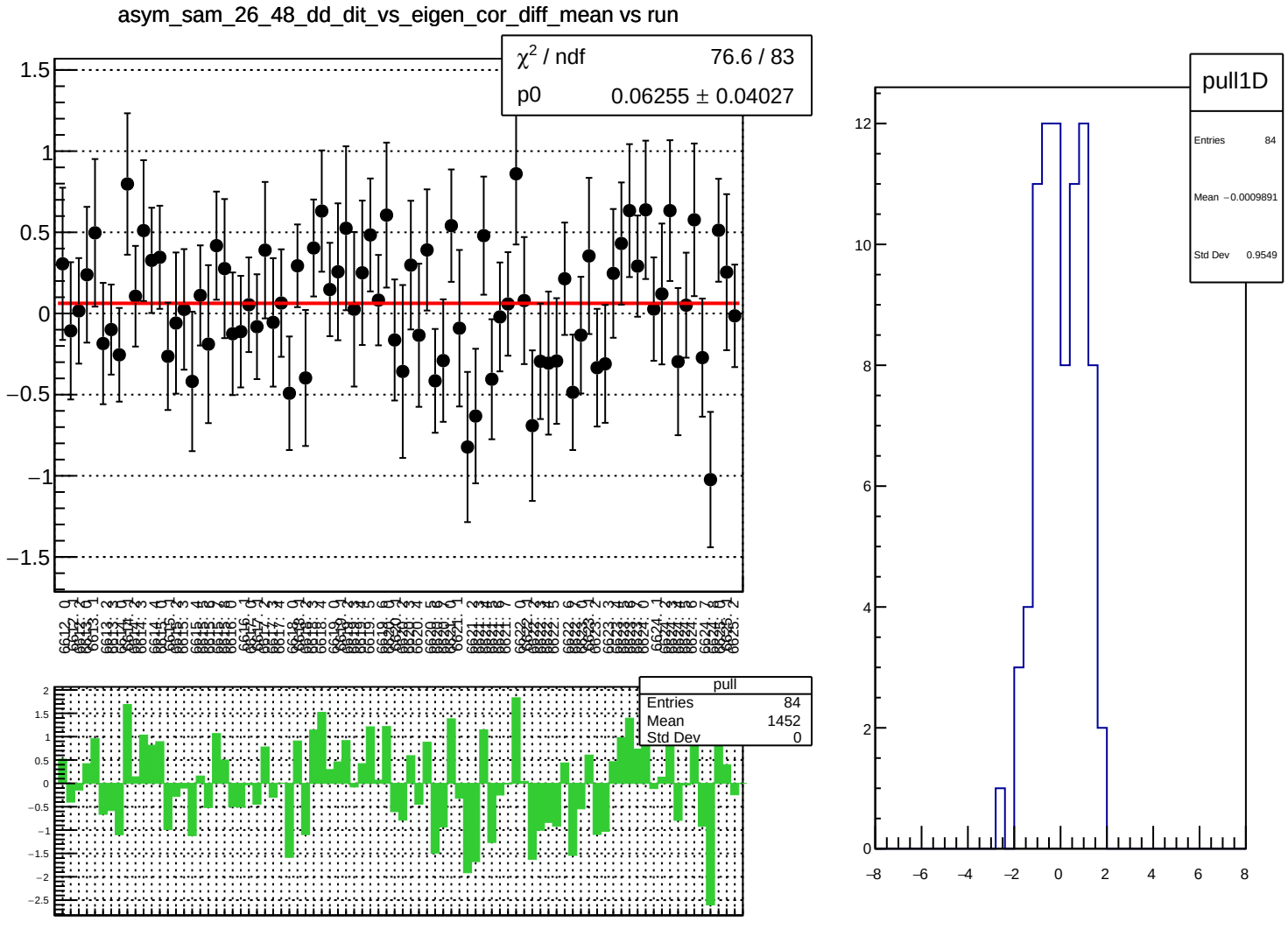

pull1D
Entries 84
Mean 0.03474
Std Dev 0.8876

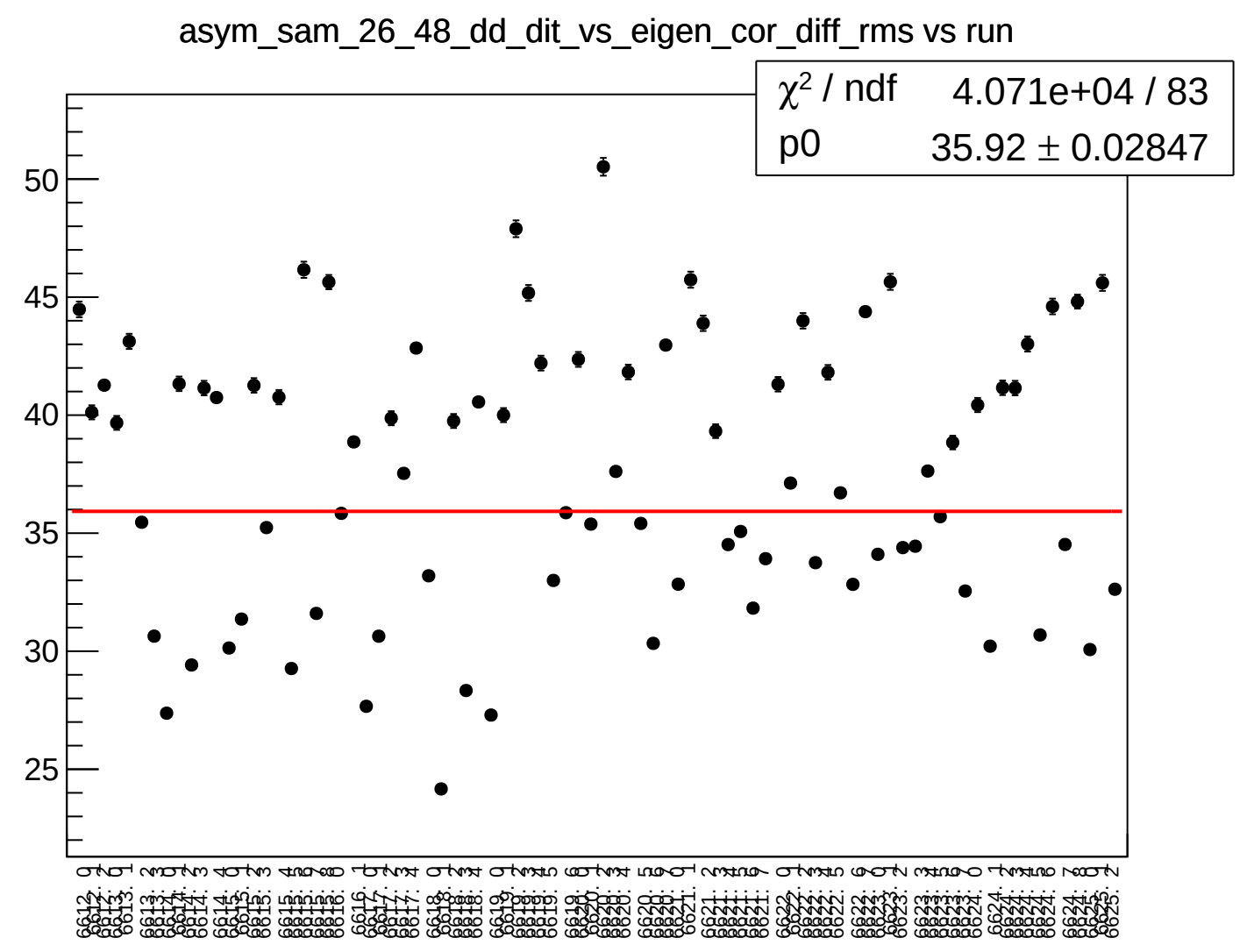

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.88e+05 / 83
p0 8.696e−12 ± 1.083e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

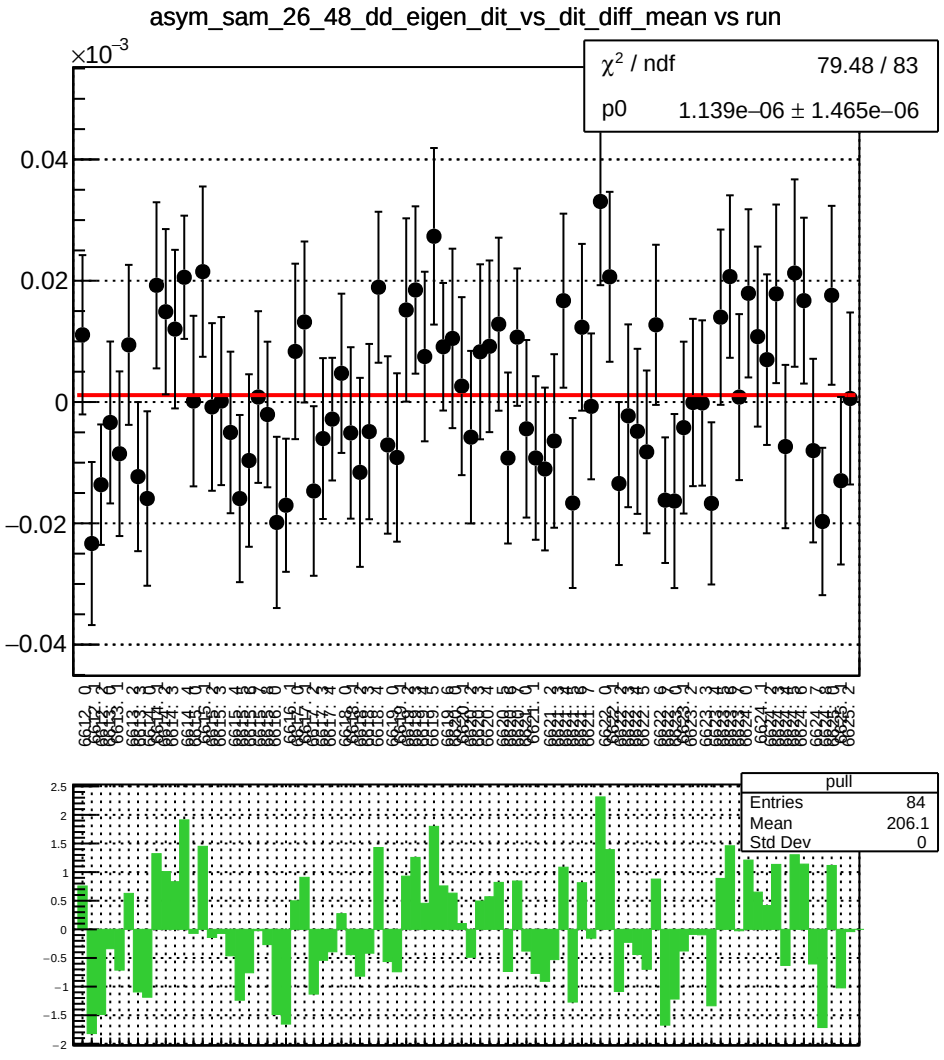

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.6 / 83
p0 0.06255 ± 0.04027
pull
Entries 84
Mean 1452
Std Dev 0

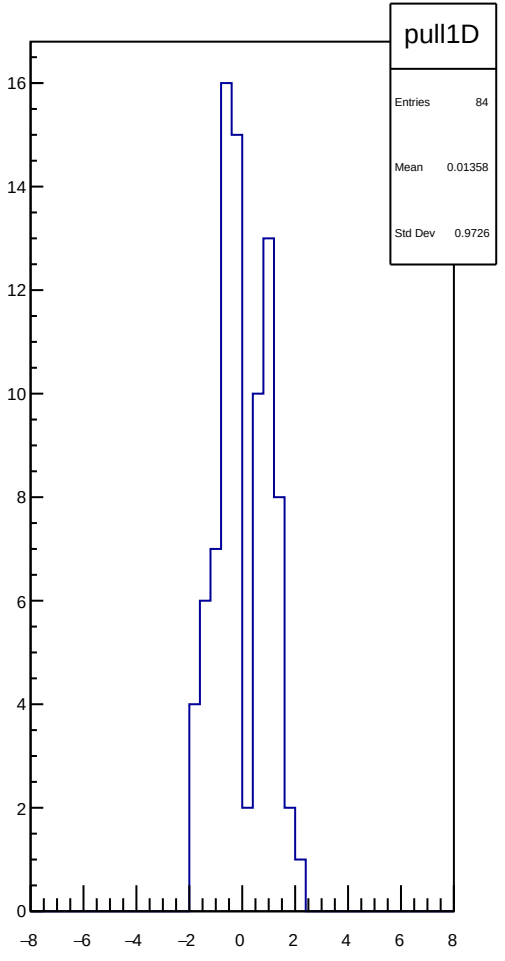

pull1D
Entries 84
Mean −0.0009891
Std Dev 0.9549

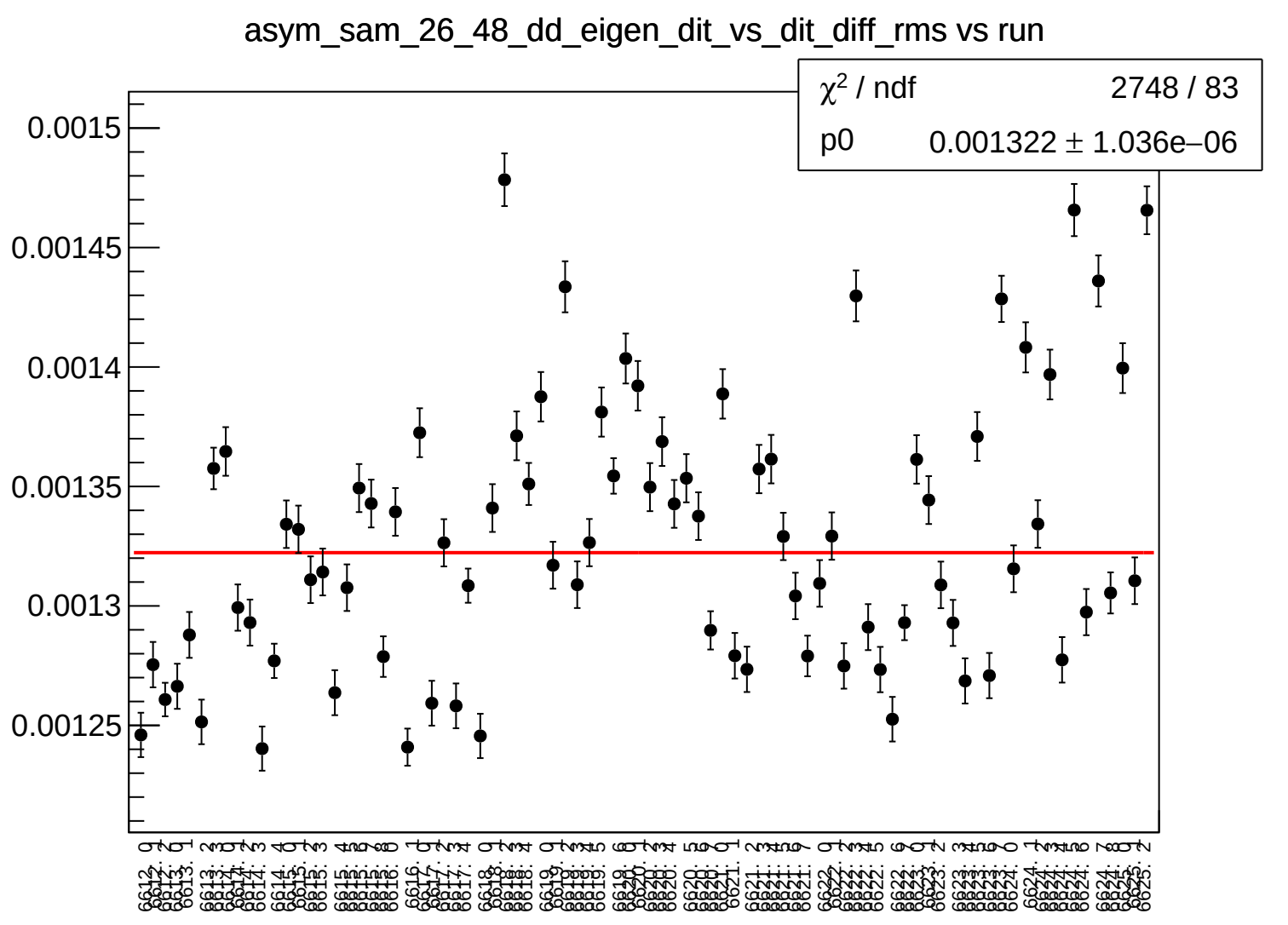

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.071e+04 / 83
p0 35.92 ± 0.02847
50
45
40
35
30
25

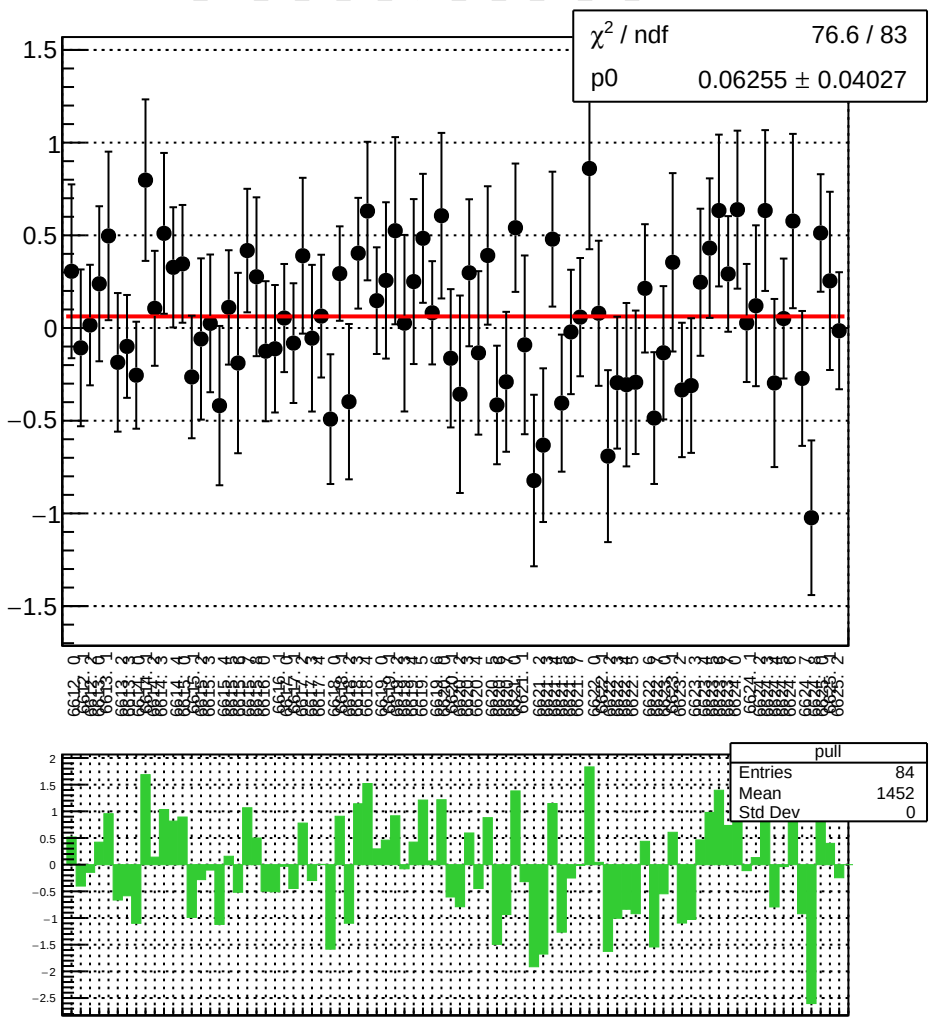

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.6 / 83
p0 0.06255 ± 0.04027
pull
Entries 84
Mean 1452
Std Dev 0
pull1D
Entries 84
Mean −0.0009891
Std Dev 0.9549

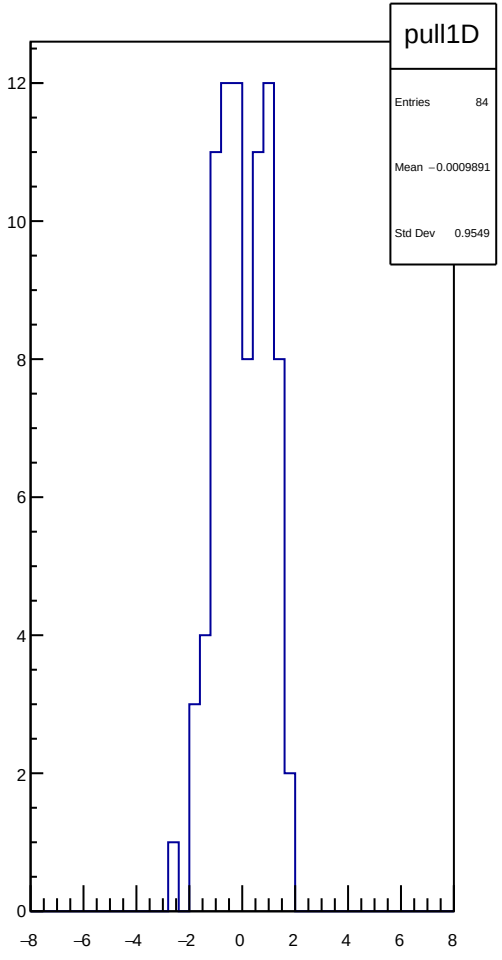

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.071e+04 / 83
p0 35.92 ± 0.02847
50
45
40
35
30
25

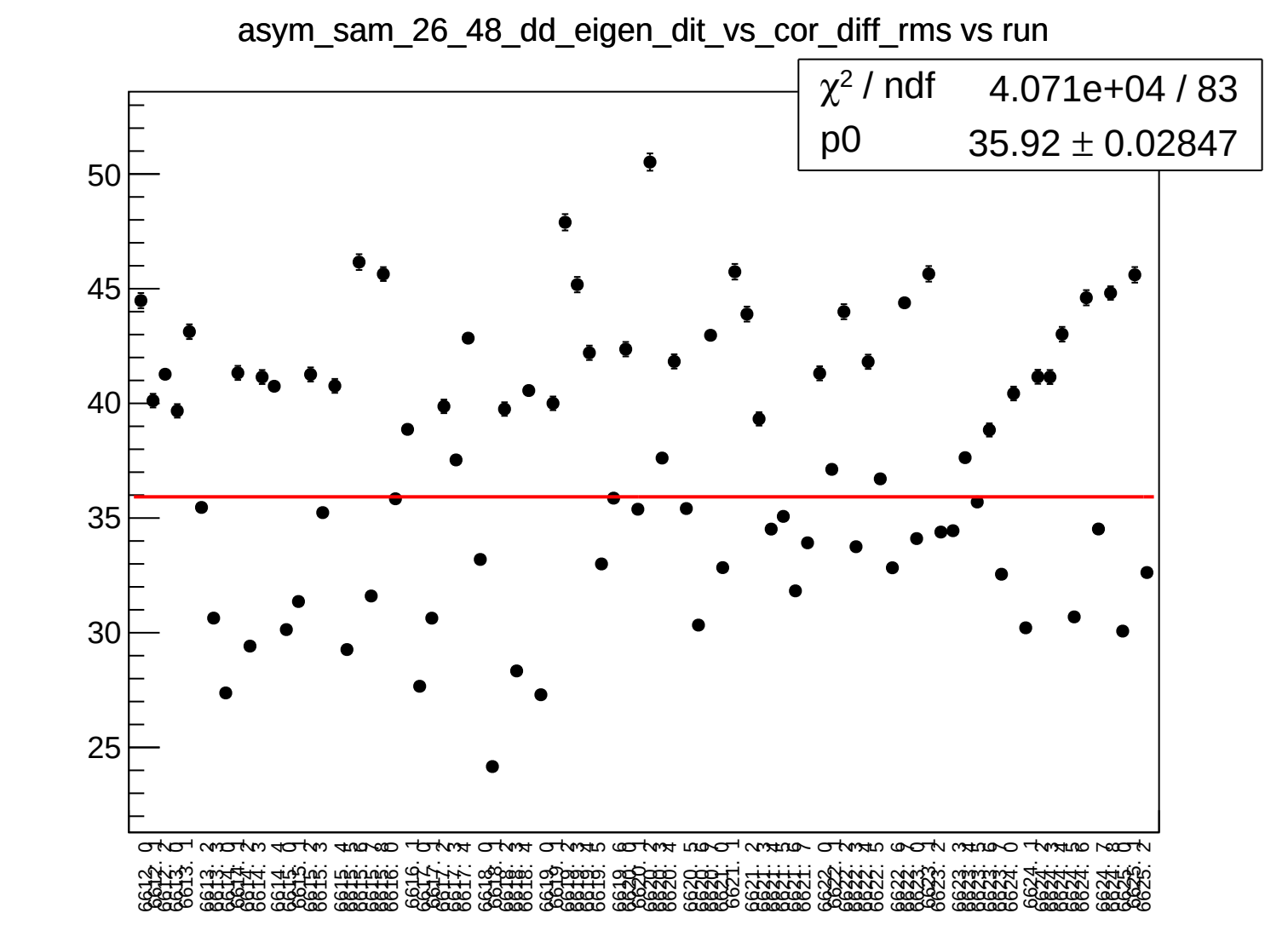

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.48 / 83
p0 1.139e−06 ± 1.465e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 84
Mean 206.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

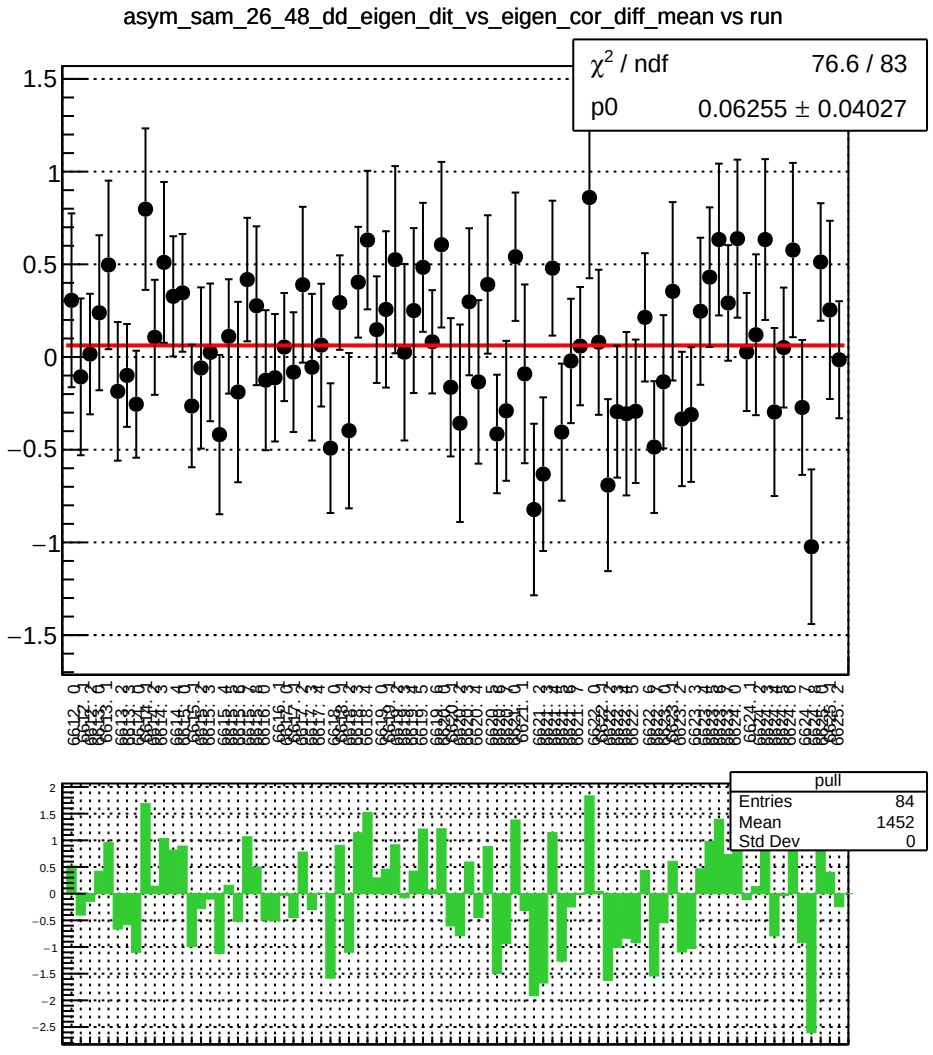

pull1D
Entries 84
Mean 0.01358
Std Dev 0.9726
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

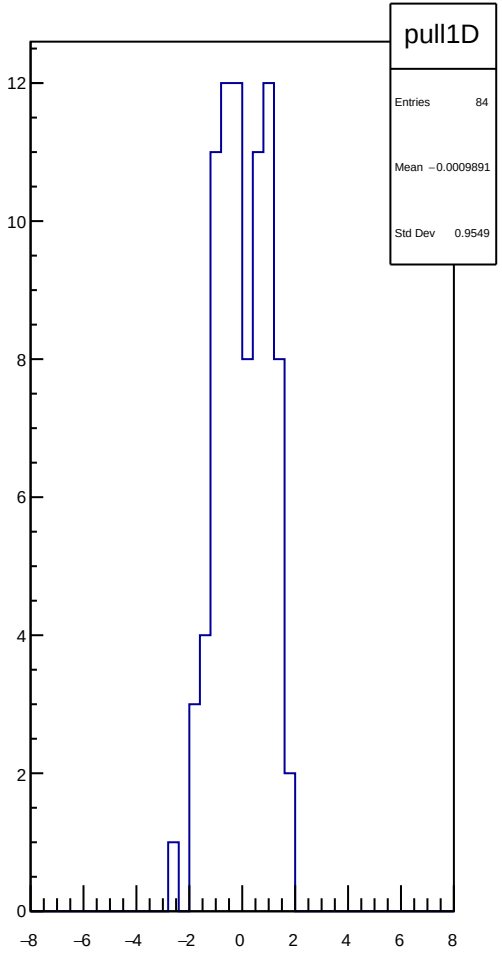

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2748 / 83
p0 0.001322 ± 1.036e−06
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125

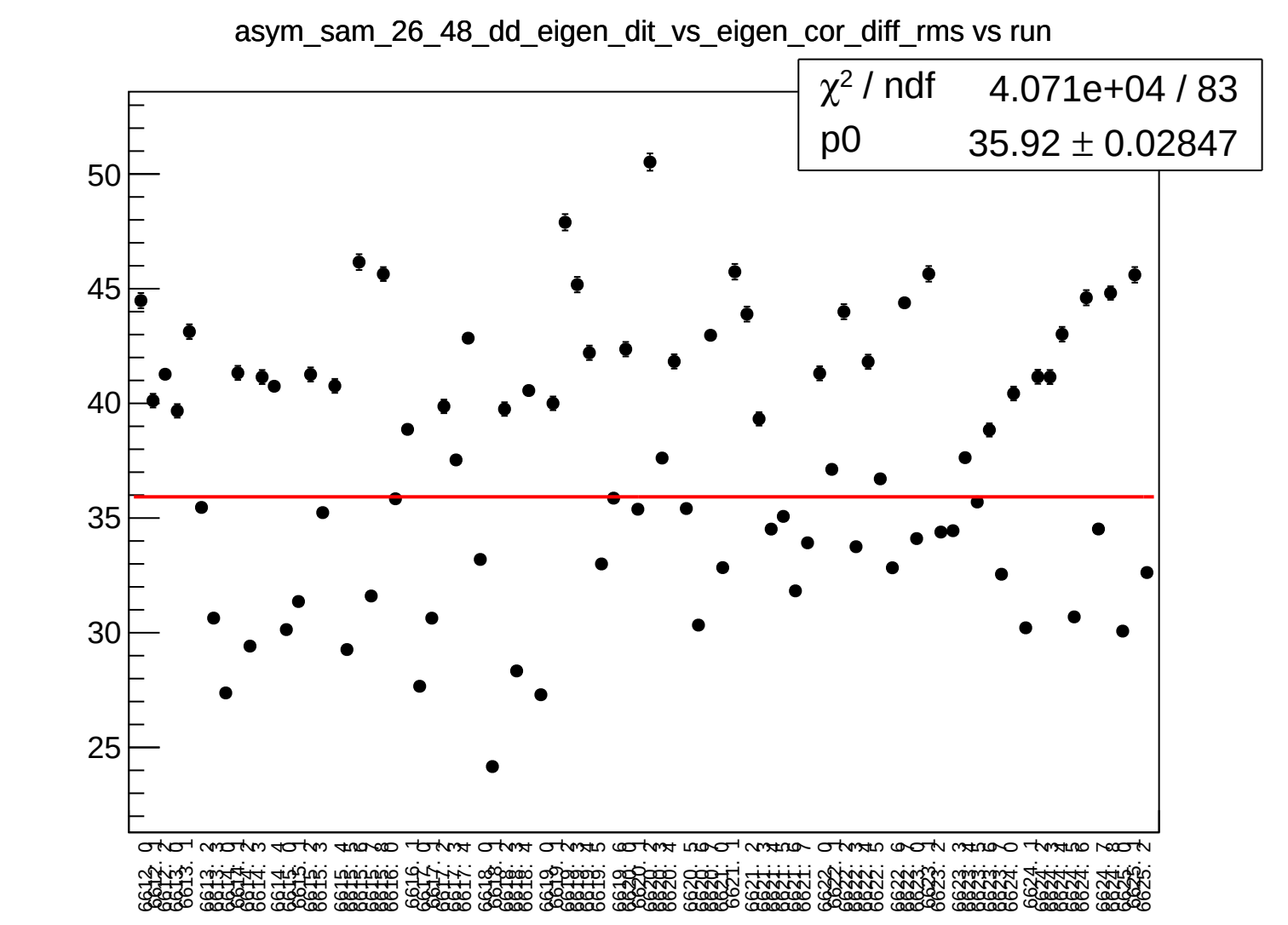

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.6 / 83
p0 0.06255 ± 0.04027
pull
Entries 84
Mean 1452
Std Dev 0

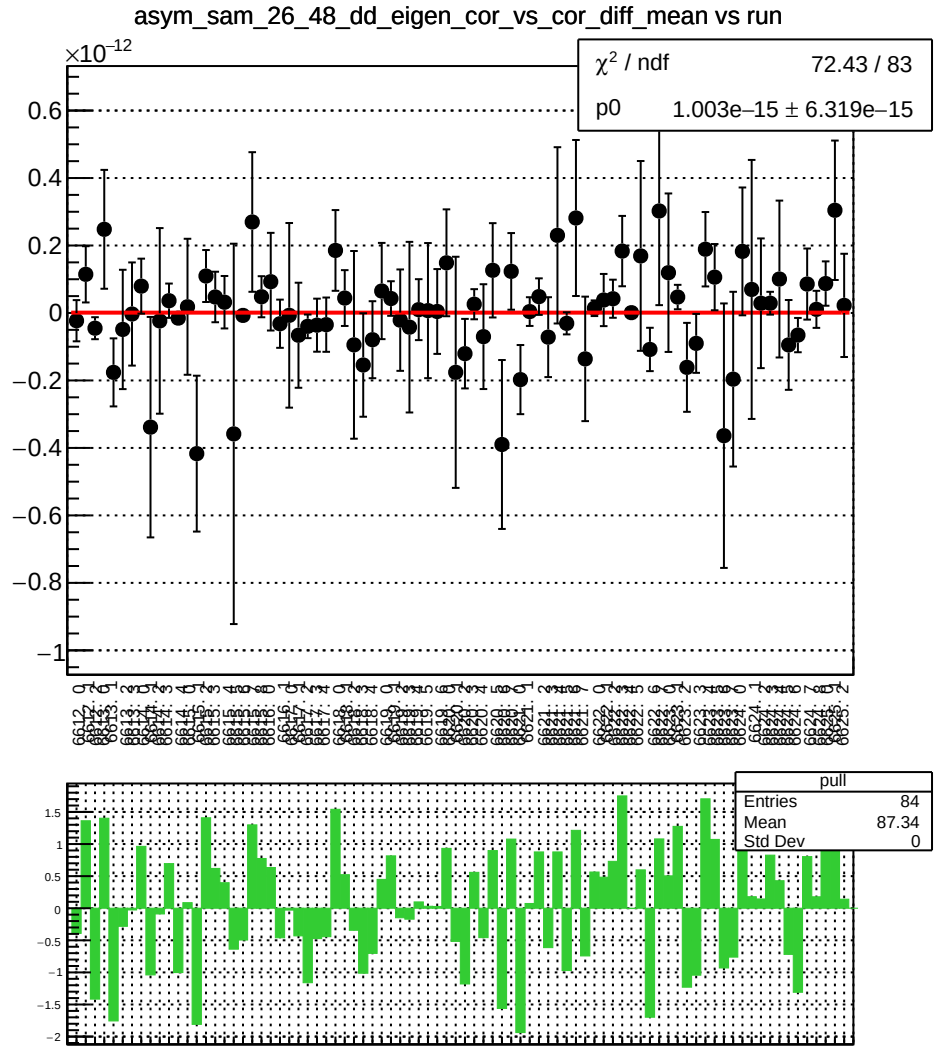

pull1D
Entries 84
Mean −0.0009891
Std Dev 0.9549

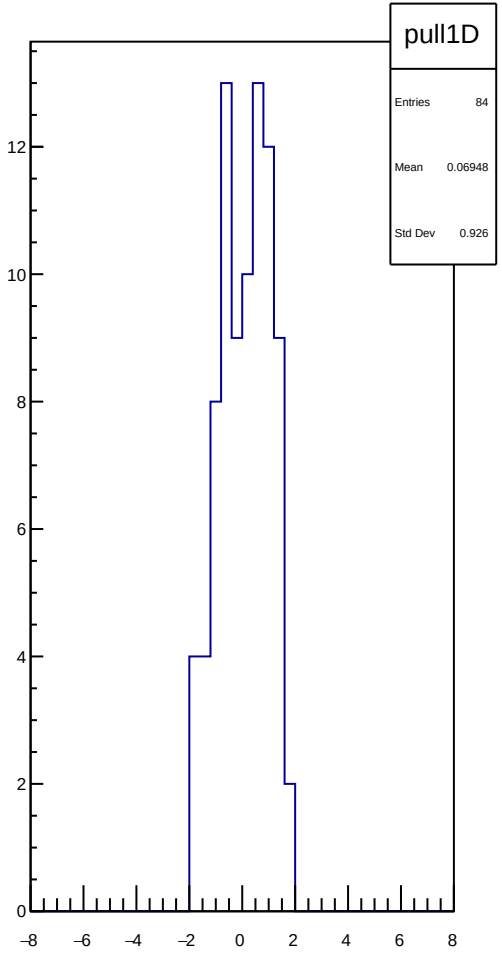

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.071e+04 / 83
p0 35.92 ± 0.02847
50
45
40
35
30
25

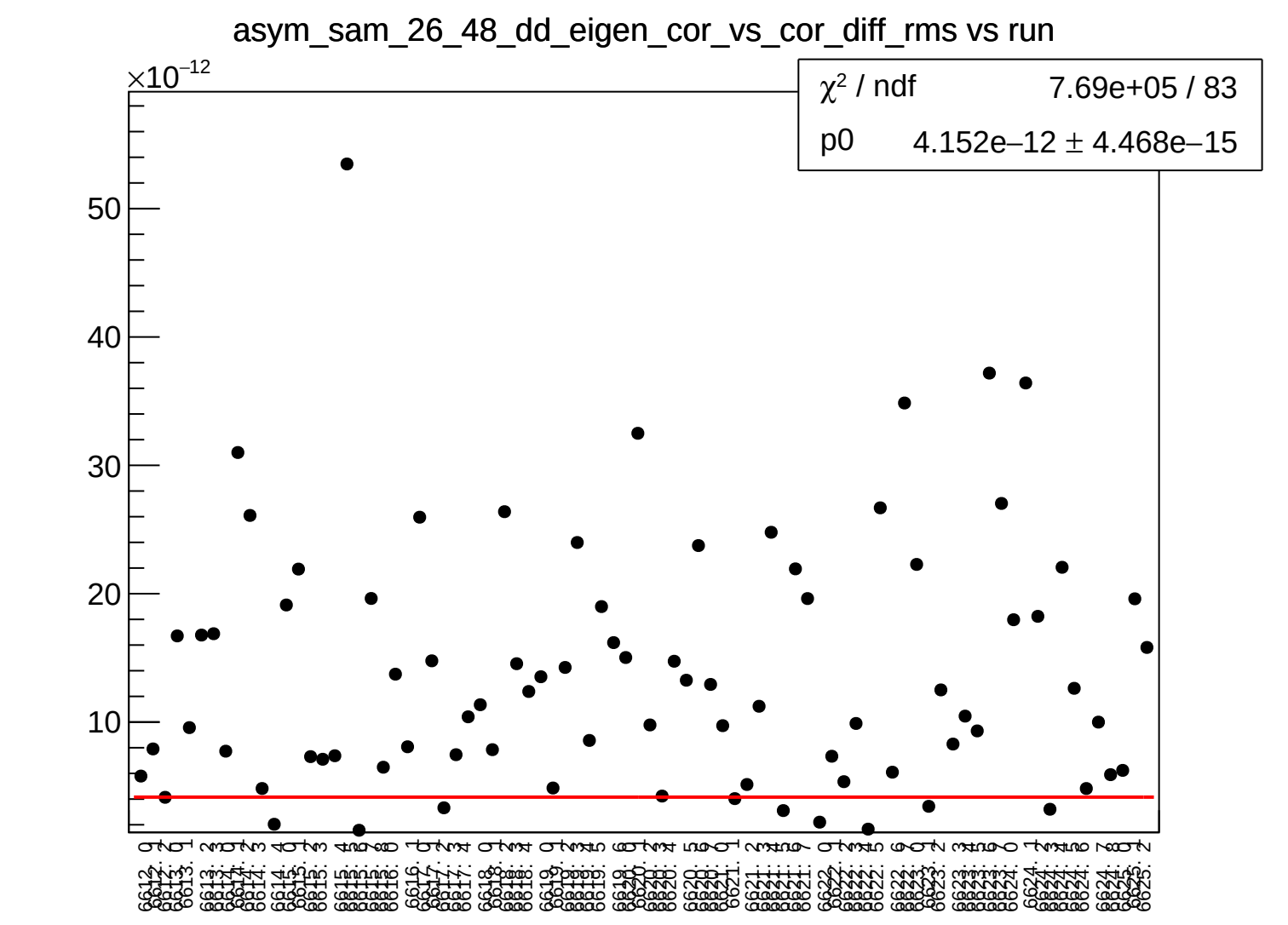

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.6 / 83
p0 0.06255 ± 0.04027
pull
Entries 84
Mean 1452
Std Dev 0

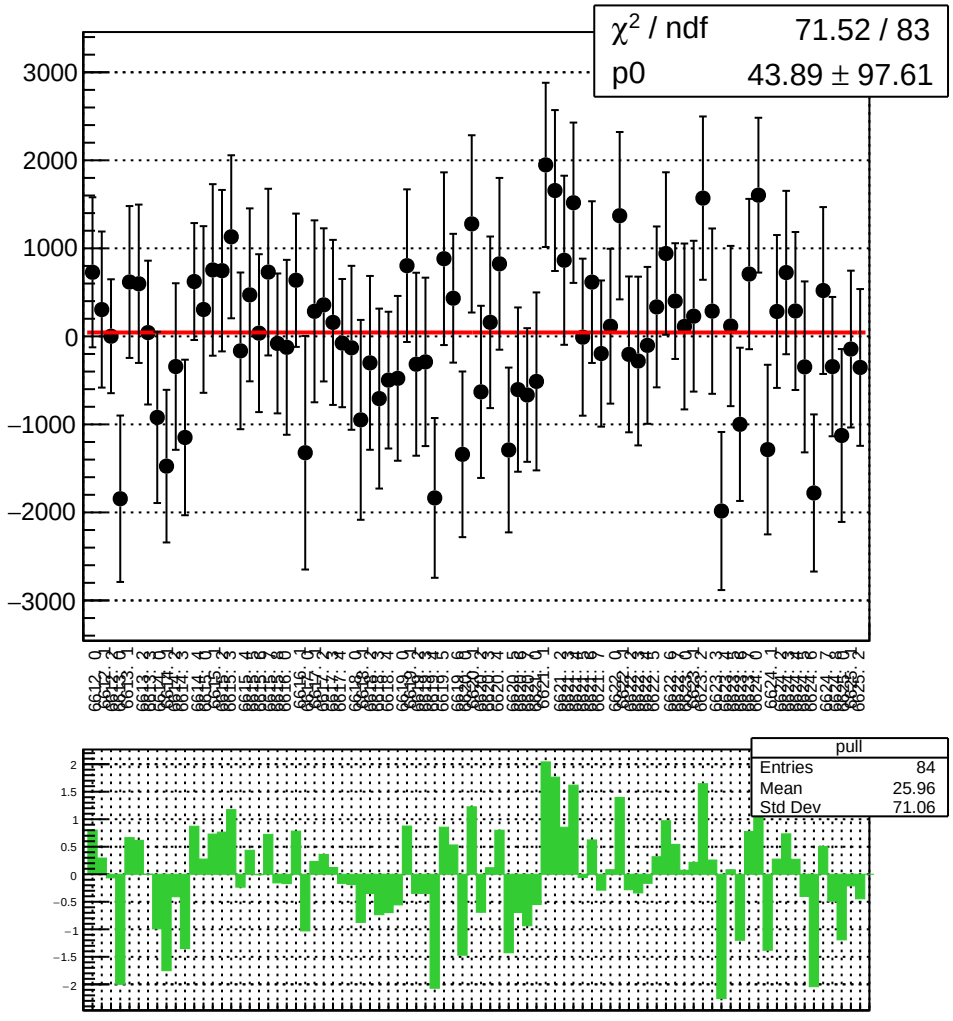

pull1D
Entries 84
Mean −0.0009891
Std Dev 0.9549

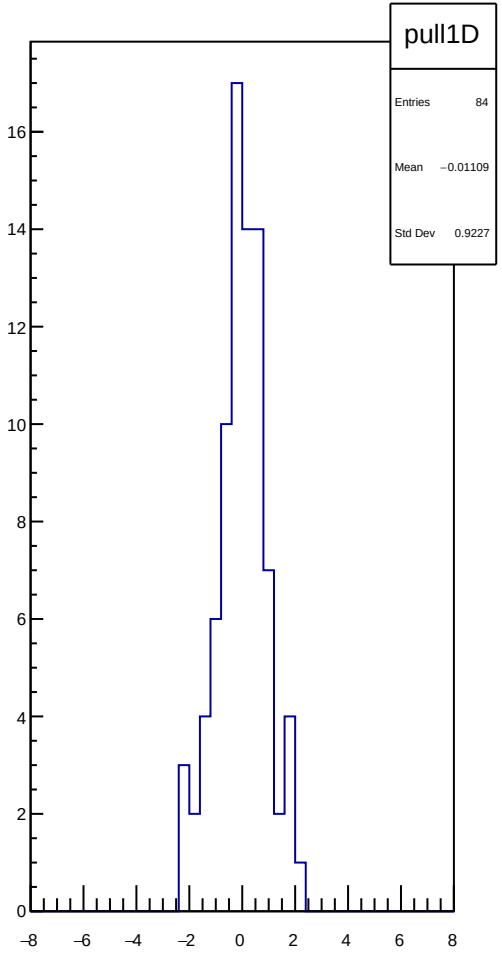

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.071e+04 / 83
p0 35.92 ± 0.02847
50
45
40
35
30
25

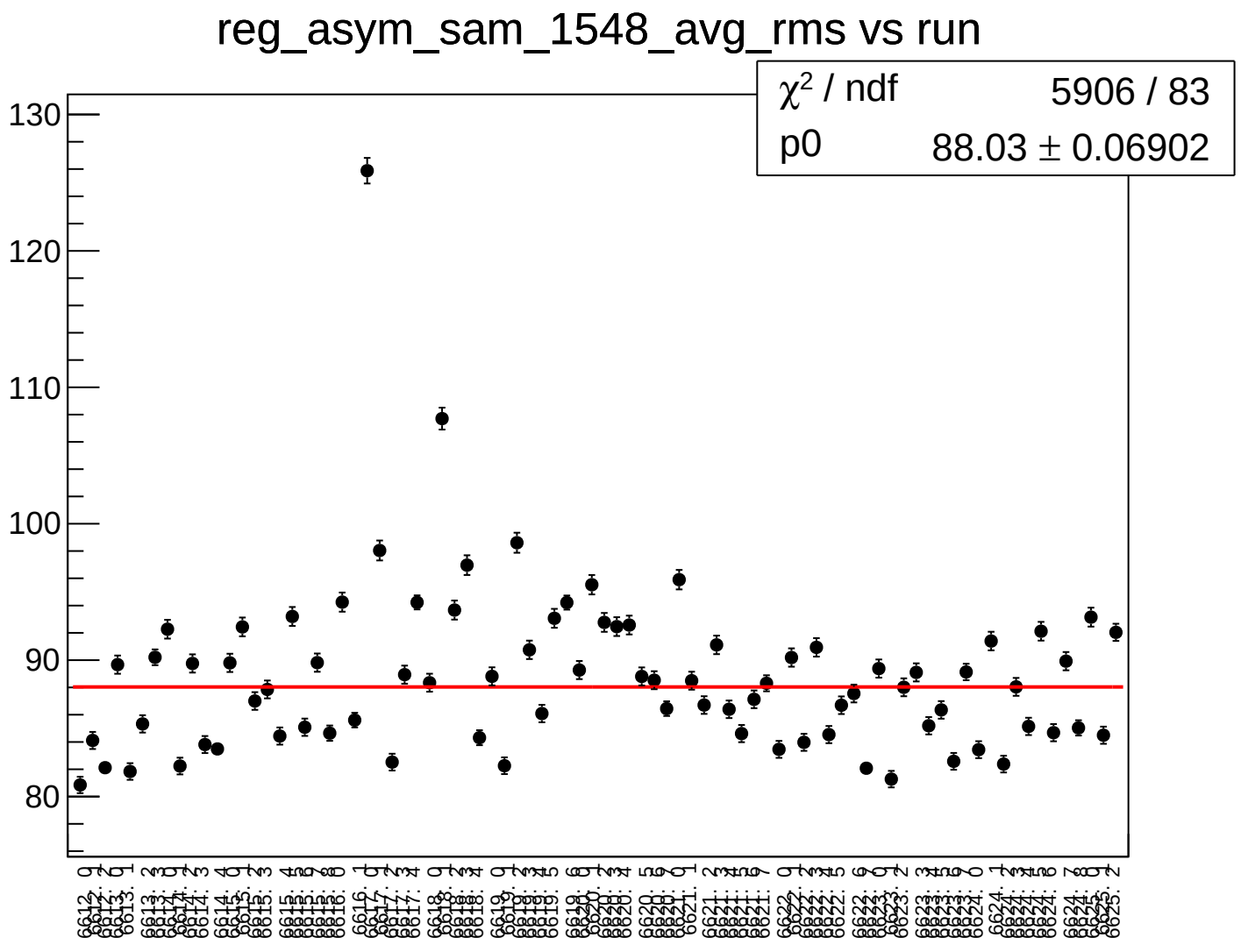

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.43 / 83
p0 1.003e−15 ± 6.319e−15
pull
Entries 84
Mean 87.34
Std Dev 0

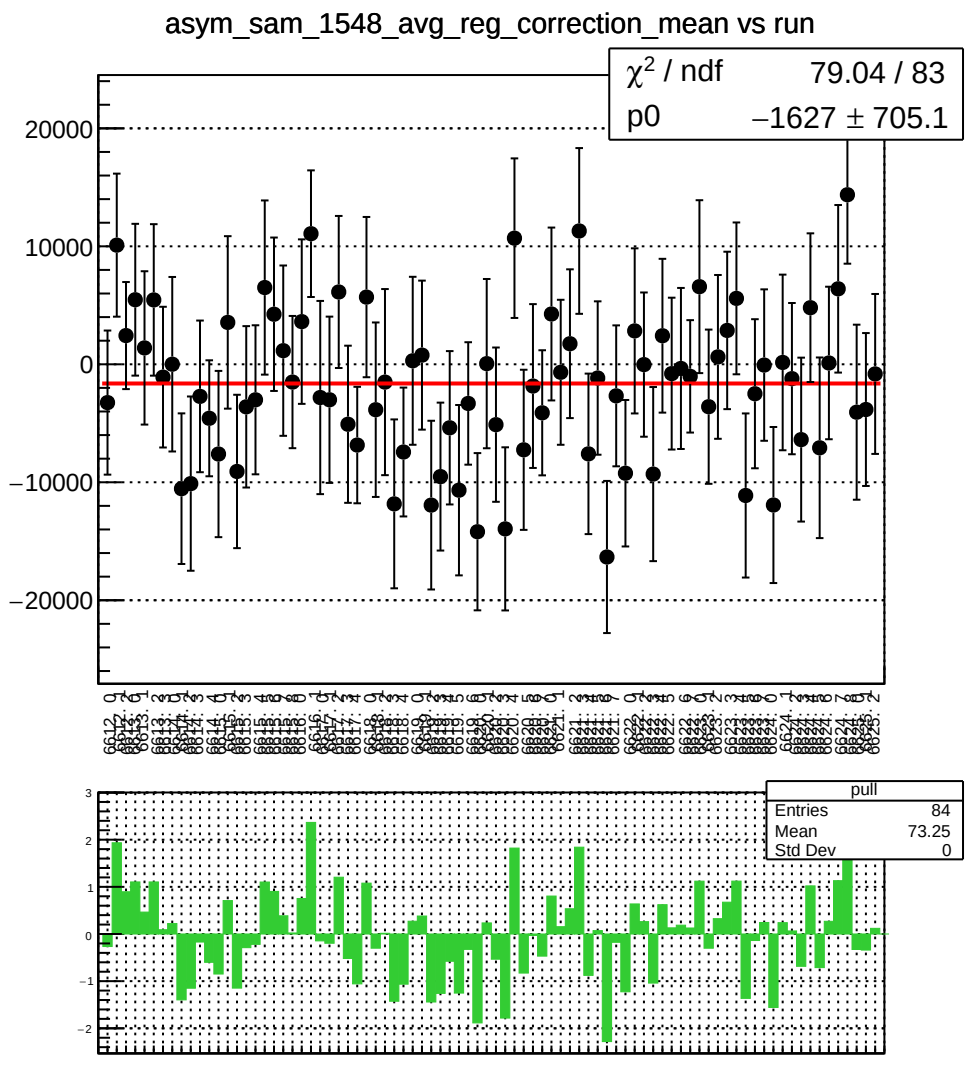

pull1D
Entries 84
Mean 0.06948
Std Dev 0.926

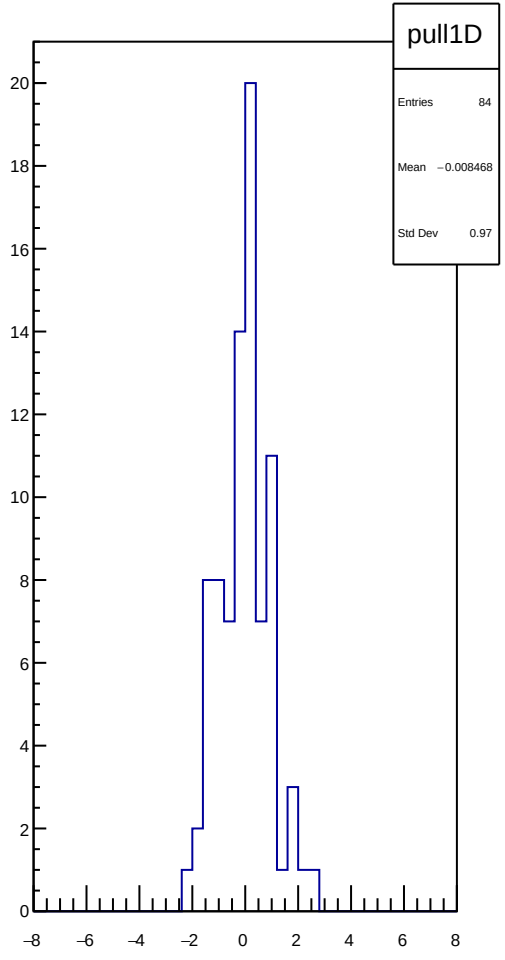

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.69e+05 / 83
p0 4.152e−12 ± 4.468e−15
50
40
30
20
10

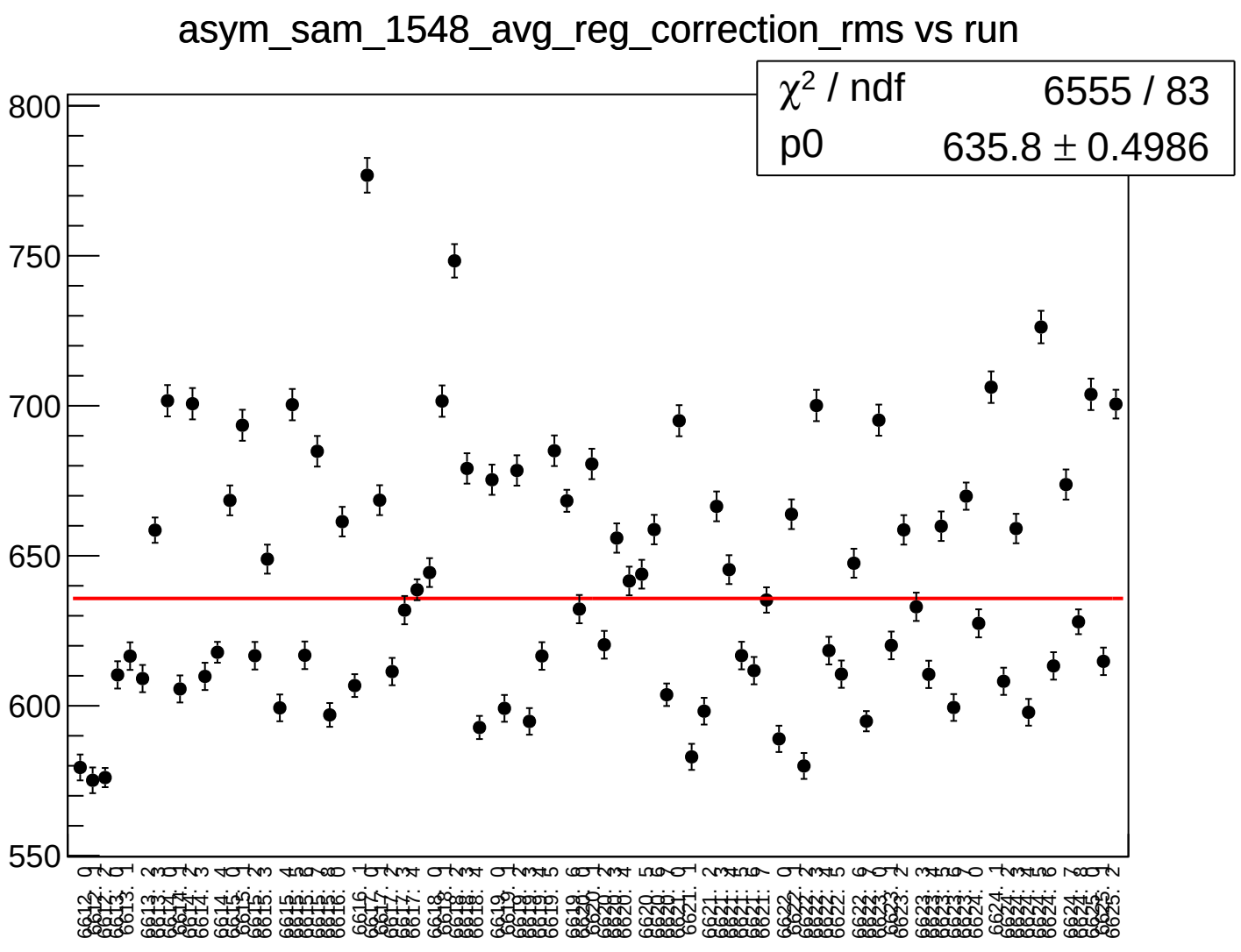

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 71.52 / 83
p0 43.89 ± 97.61
pull
Entries 84
Mean 25.96
Std Dev 71.06

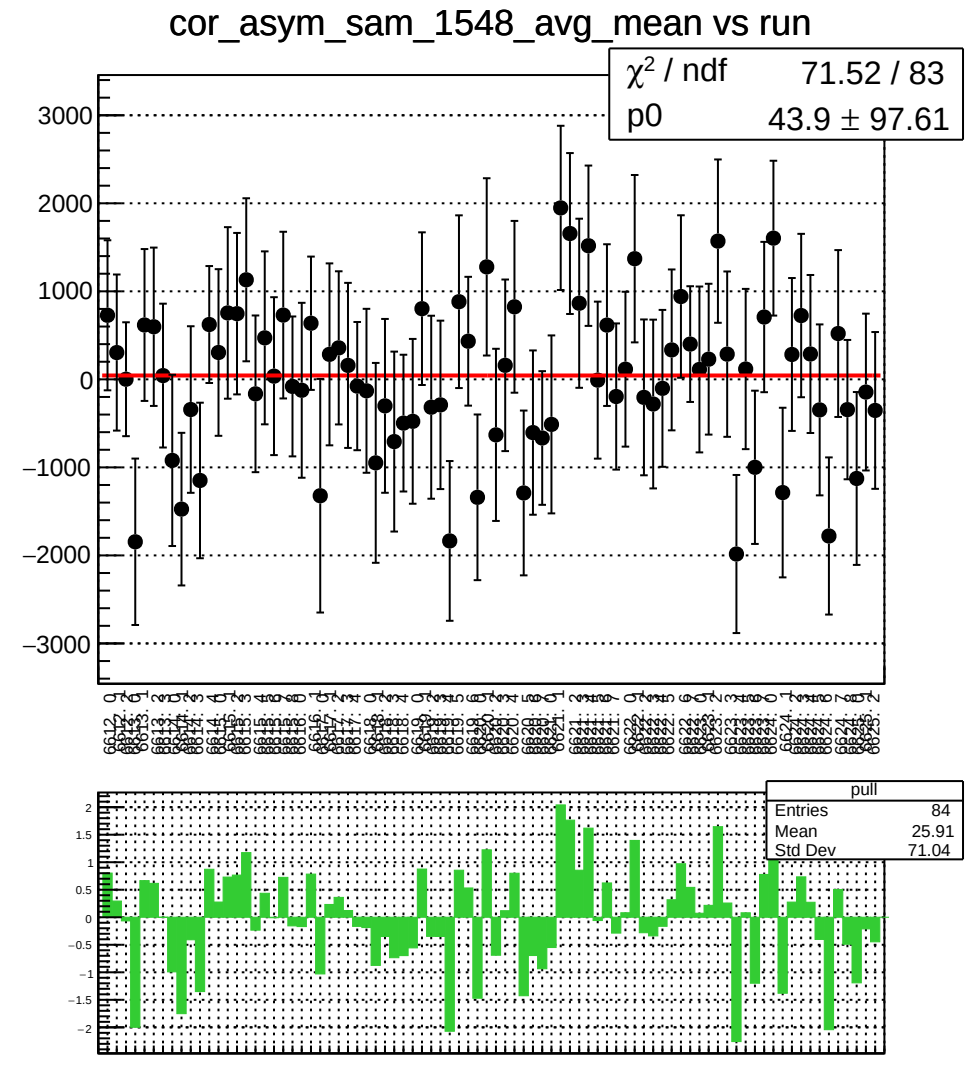

pull1D
Entries 84
Mean −0.01109
Std Dev 0.9227

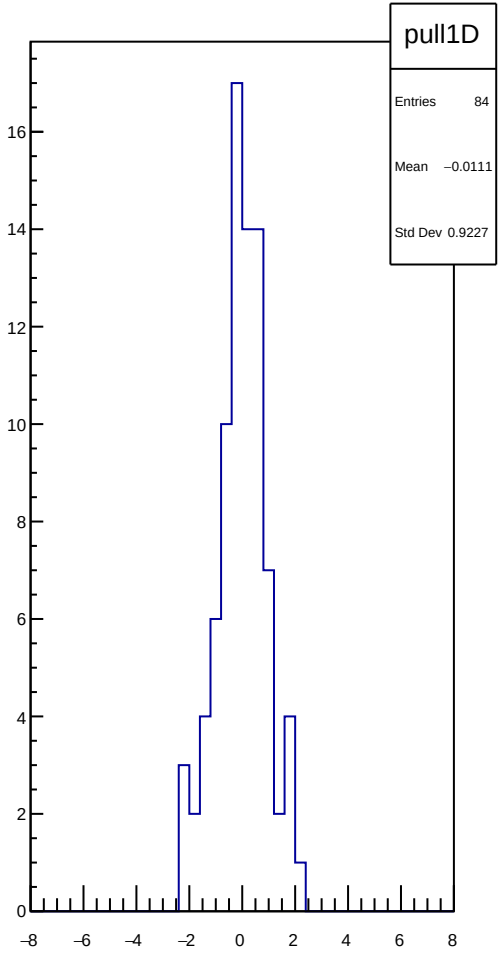

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 5906 / 83
p0 88.03 ± 0.06902
130
120
110
100
90
80

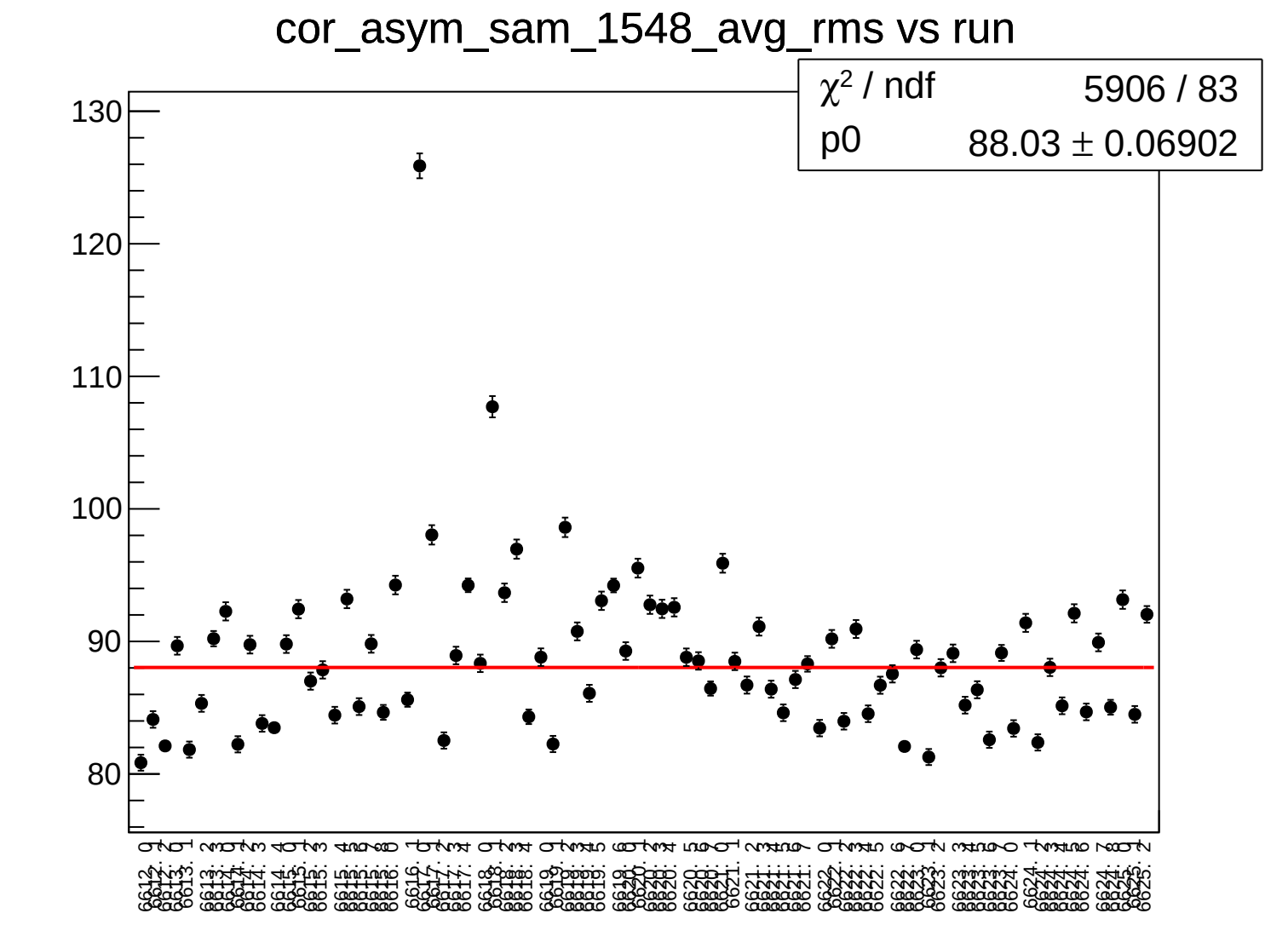

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 79.04 / 83
p0 −1627 ± 705.1
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 73.25
Std Dev 0
3
2
1
0
−1
−2

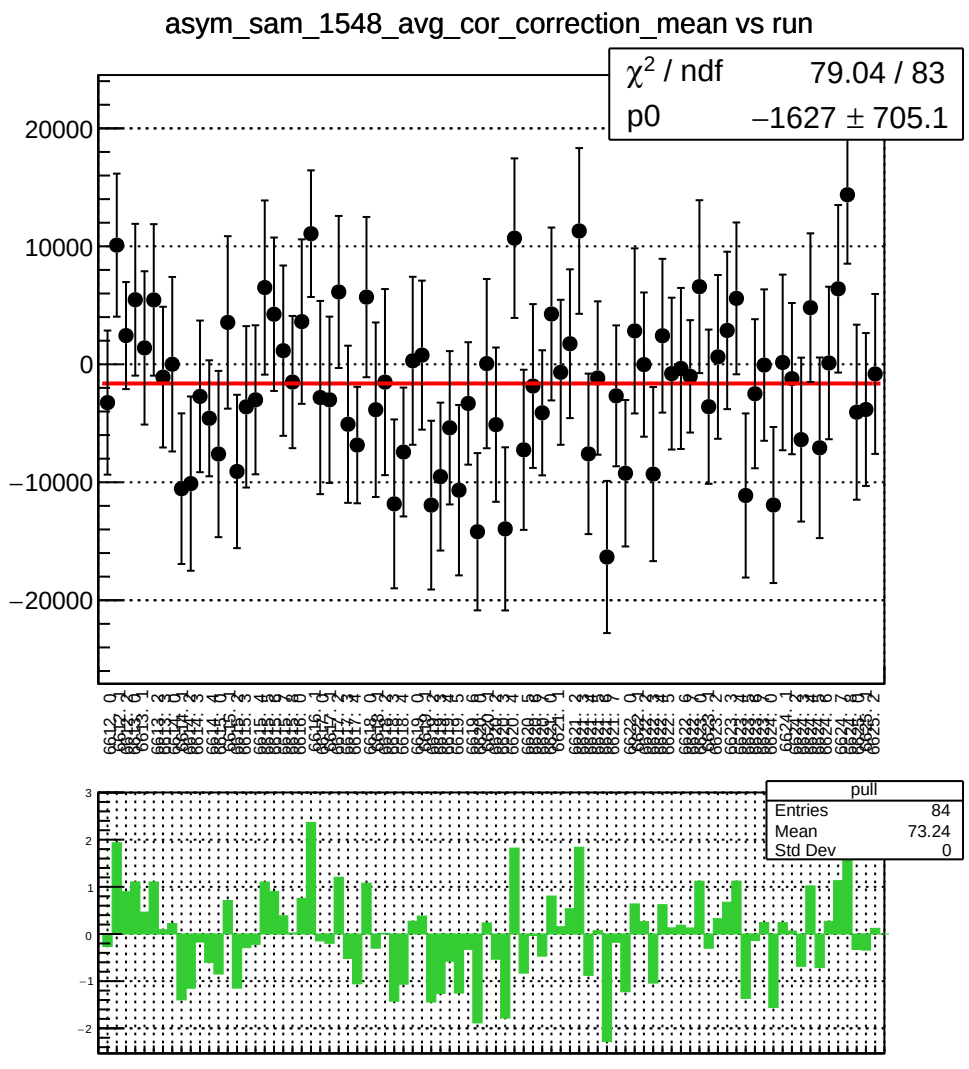

pull1D
Entries 84
Mean −0.008468
Std Dev 0.97
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

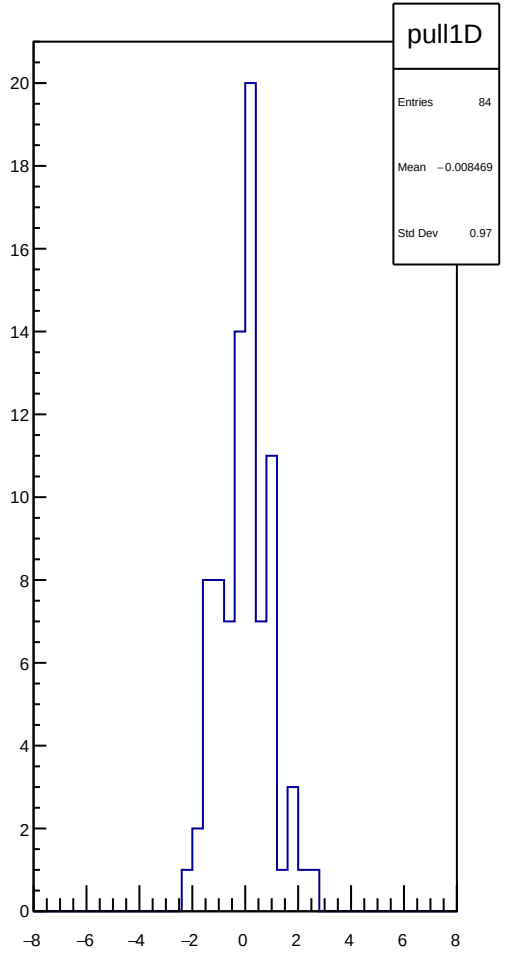

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 6555 / 83
p0 635.8 ± 0.4986
800
750
700
650
600
550

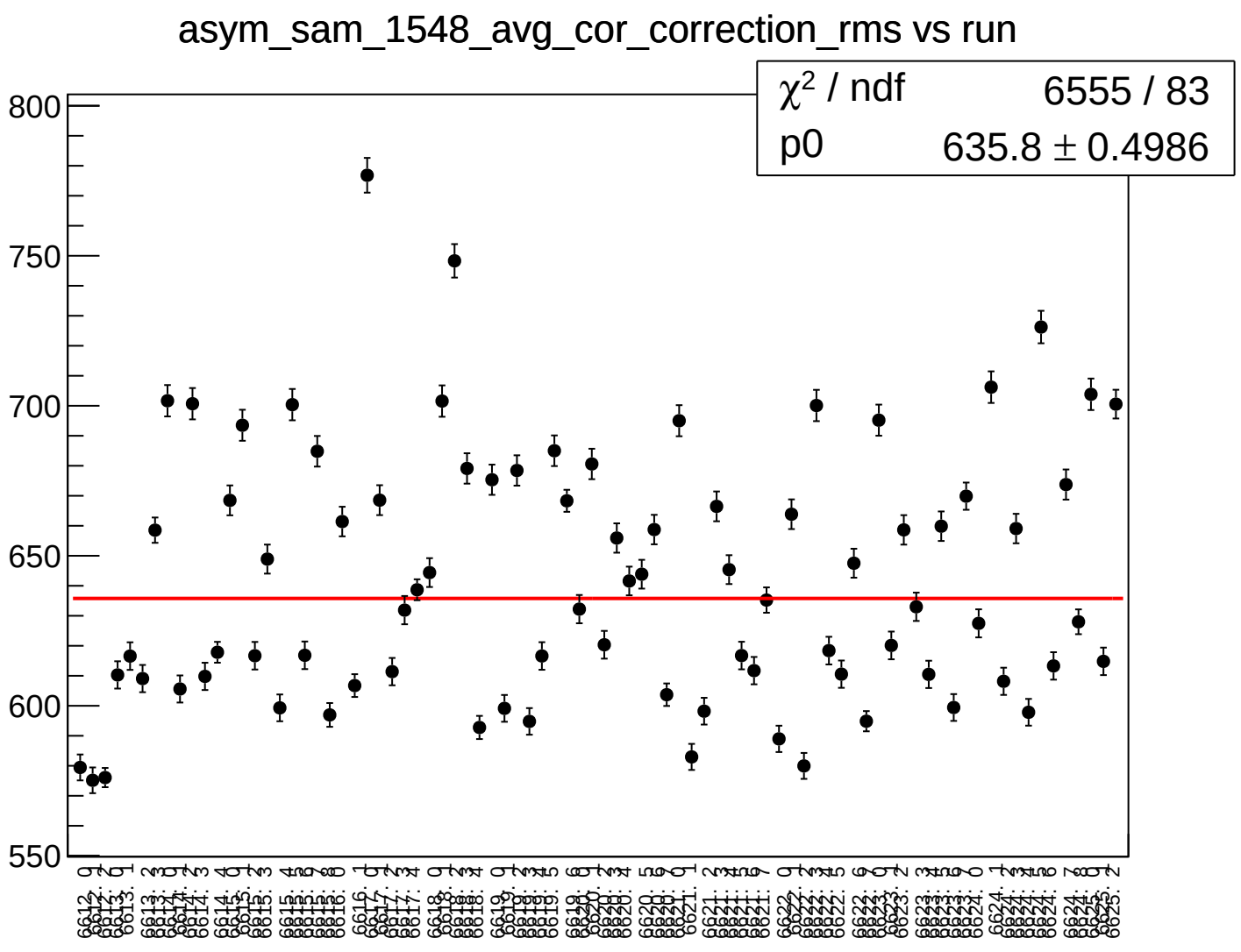

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 71.52 / 83
p0 43.9 ± 97.61
pull
Entries 84
Mean 25.91
Std Dev 71.04

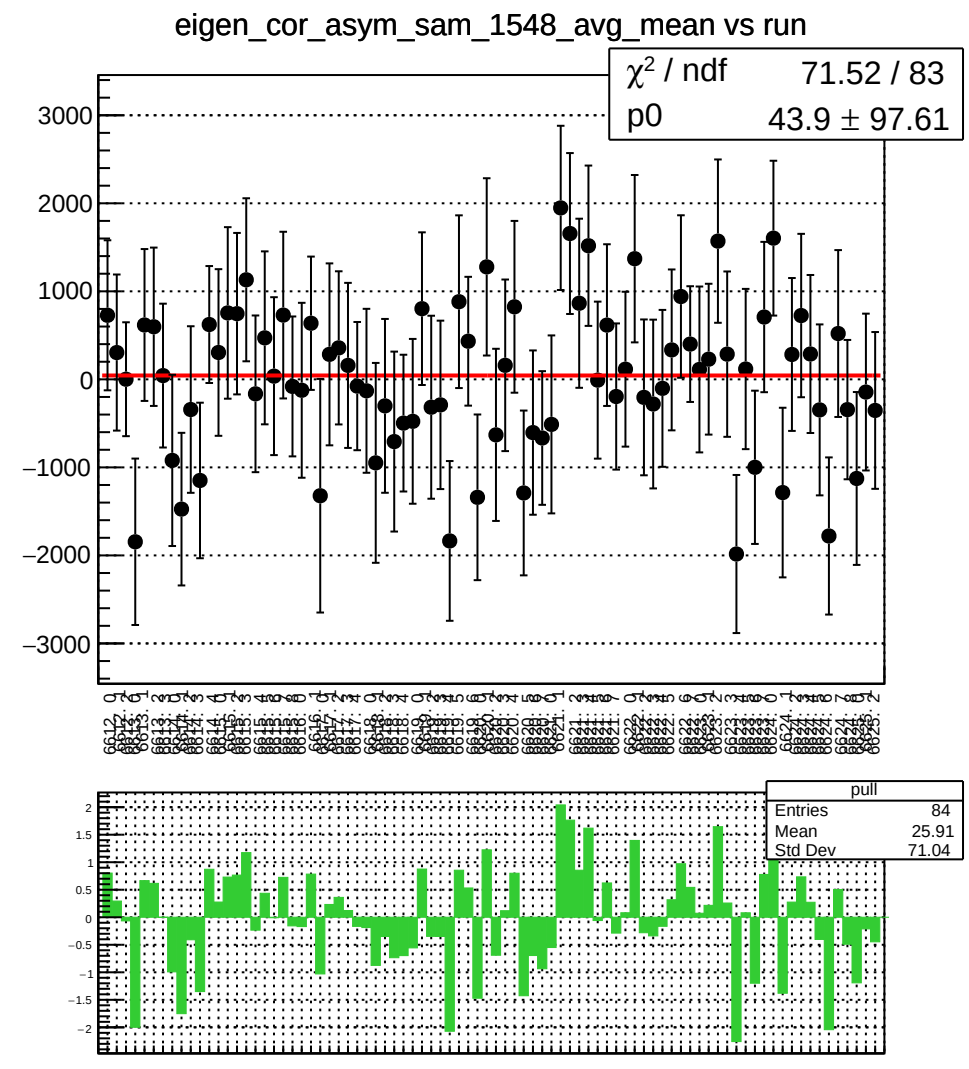

pull1D
Entries 84
Mean −0.0111
Std Dev 0.9227

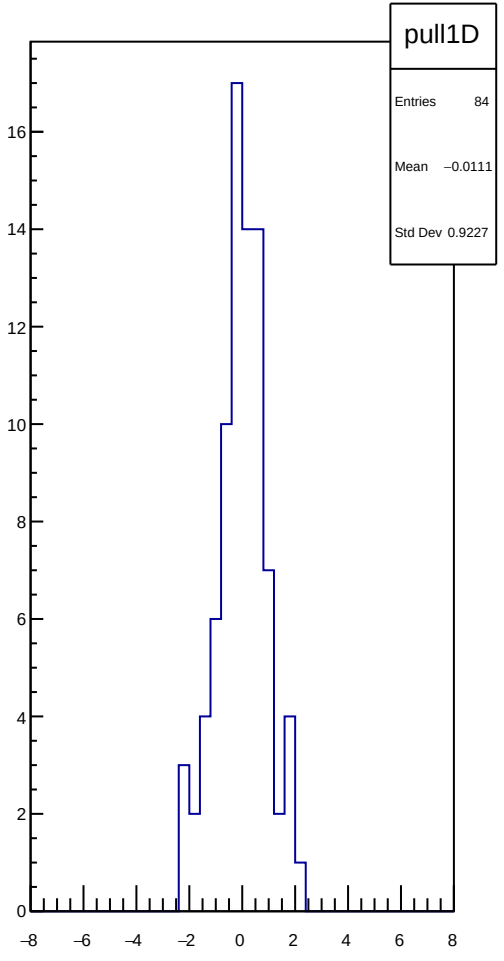

cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 5906 / 83
p0 88.03 ± 0.06902
130
120
110
100
90
80

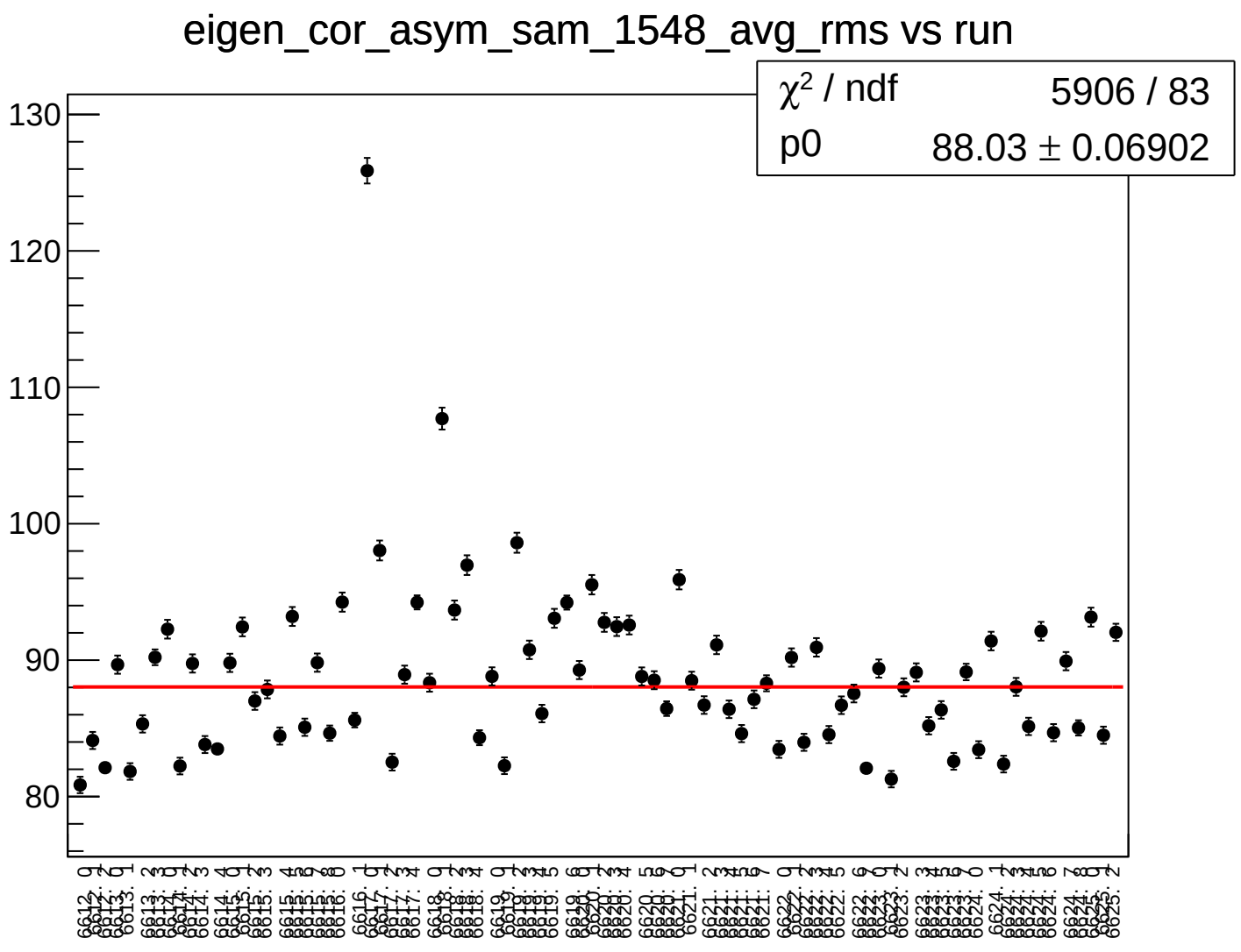

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 79.04 / 83
p0 −1627 ± 705.1
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 73.24
Std Dev 0
3
2
1
0
−1
−2

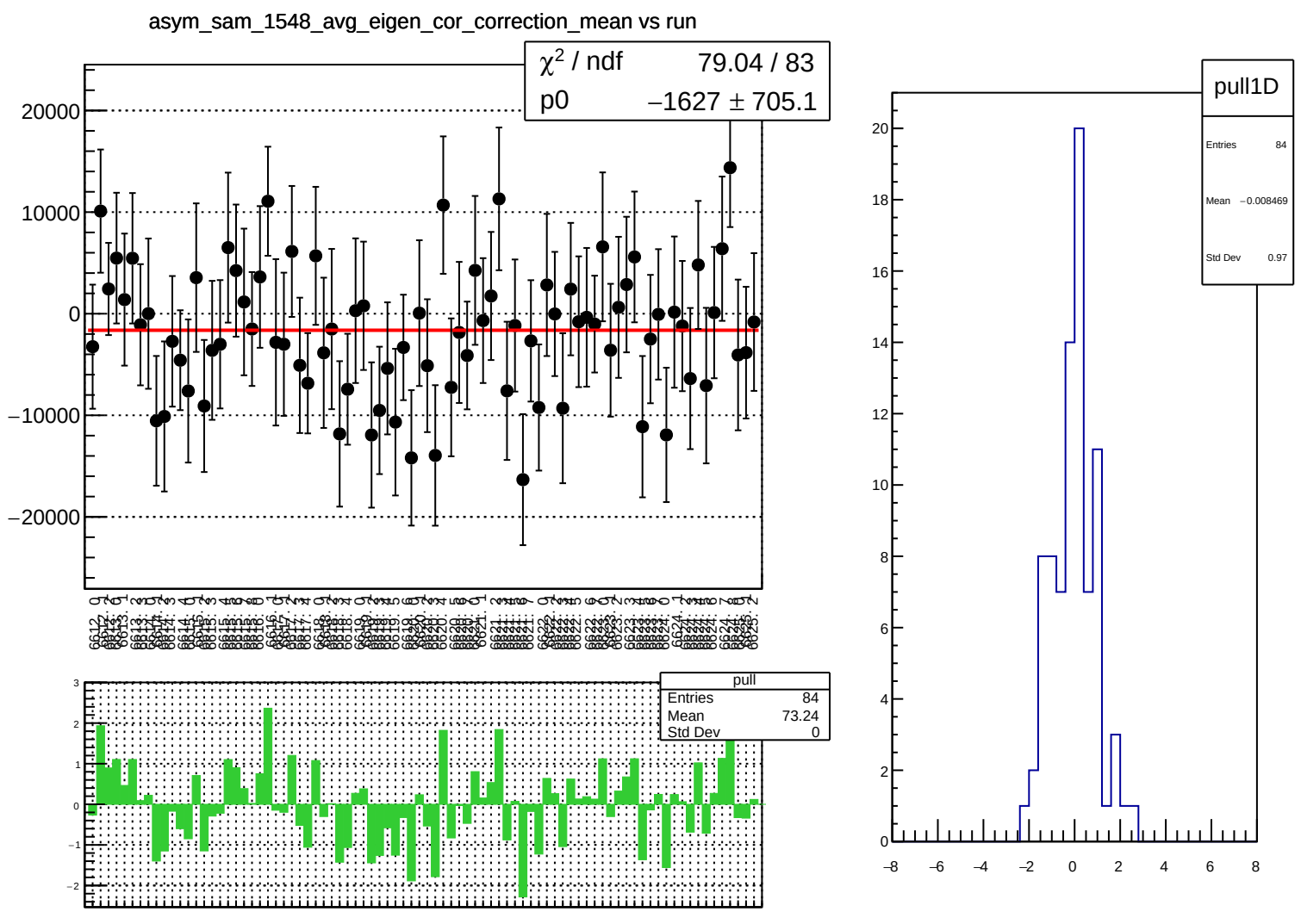

pull1D
Entries 84
Mean −0.008469
Std Dev 0.97
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

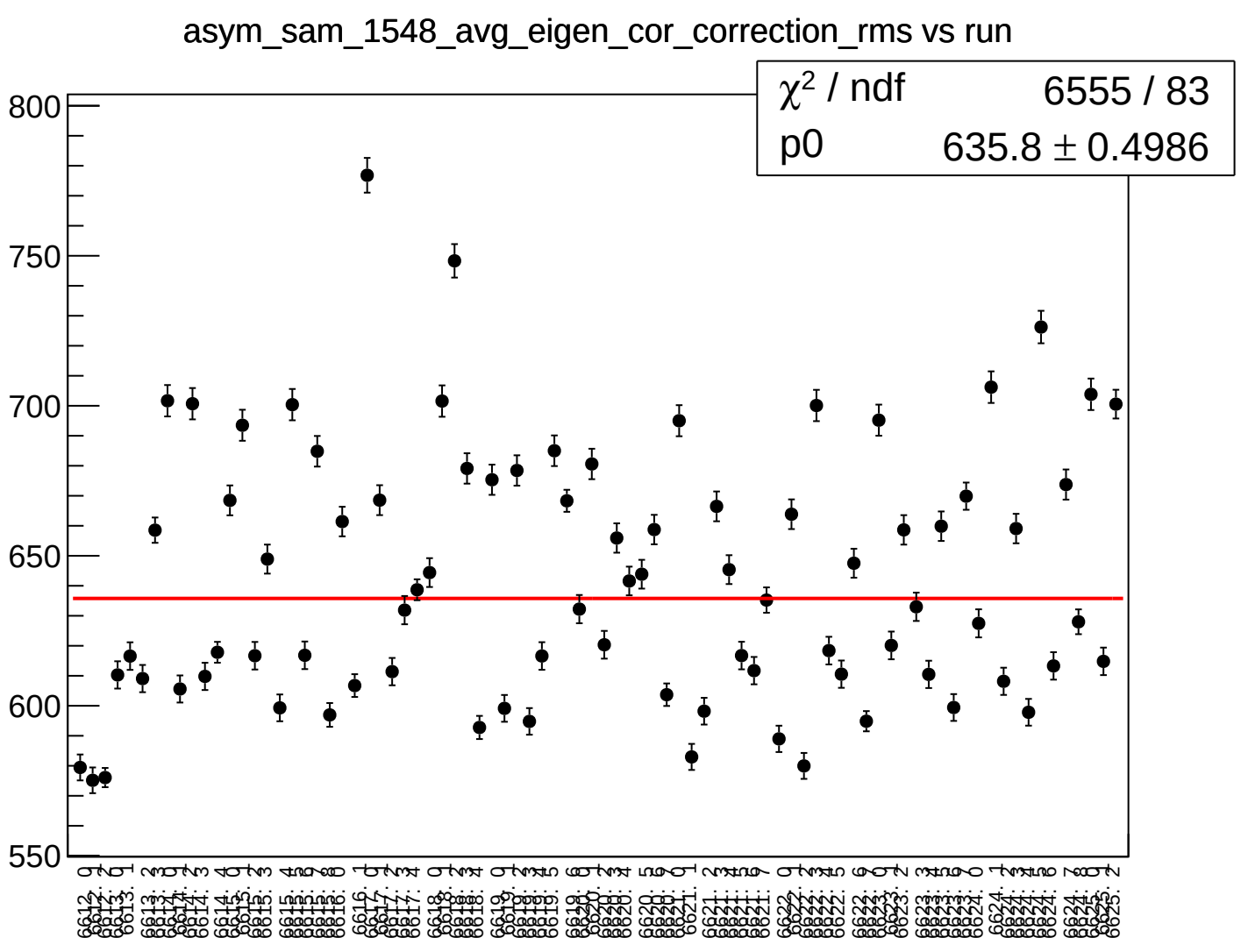

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 6555 / 83
p0 635.8 ± 0.4986
800
750
700
650
600
550

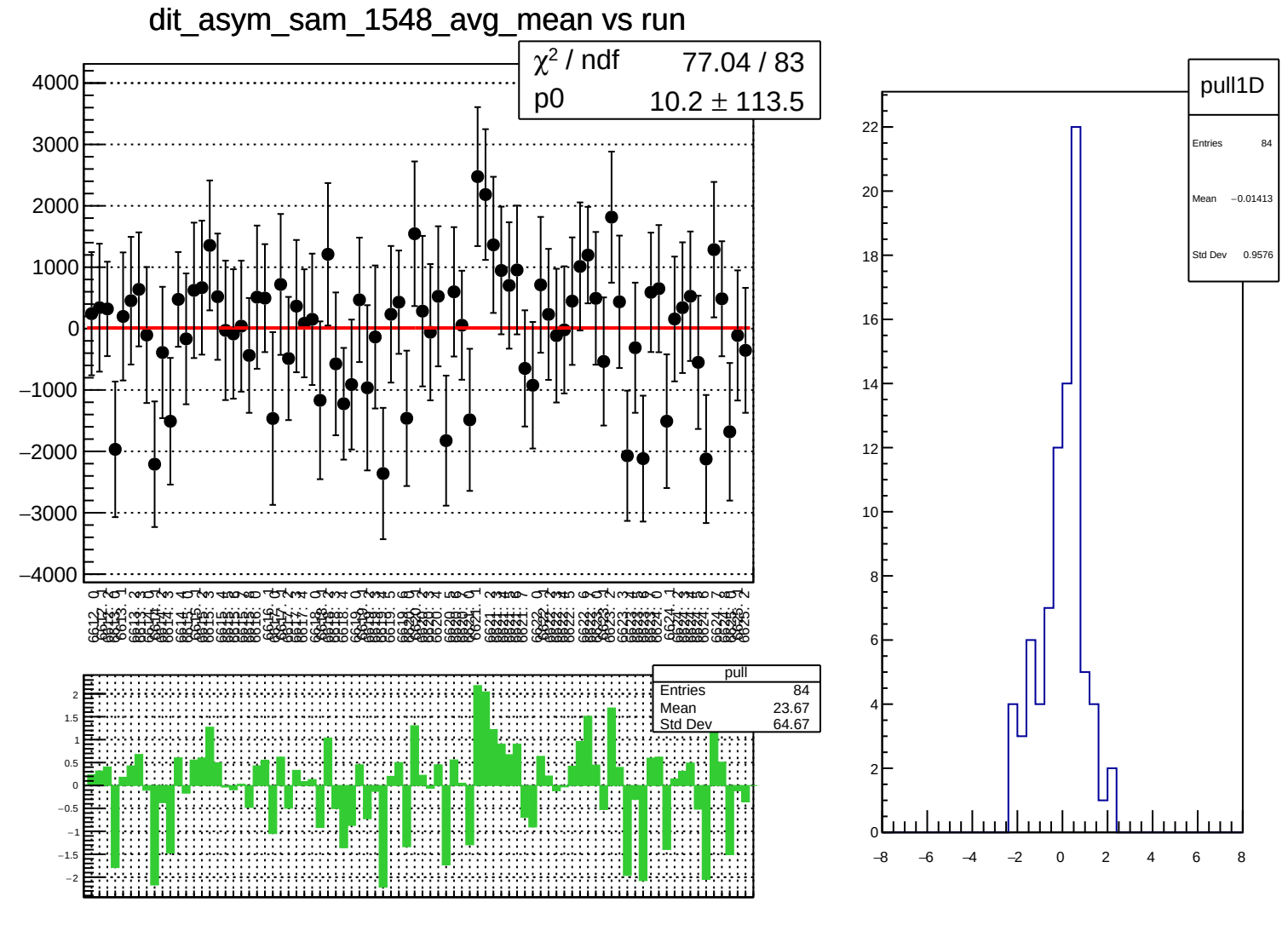

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 71.52 / 83
p0 43.9 ± 97.61
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 25.91
Std Dev 71.04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

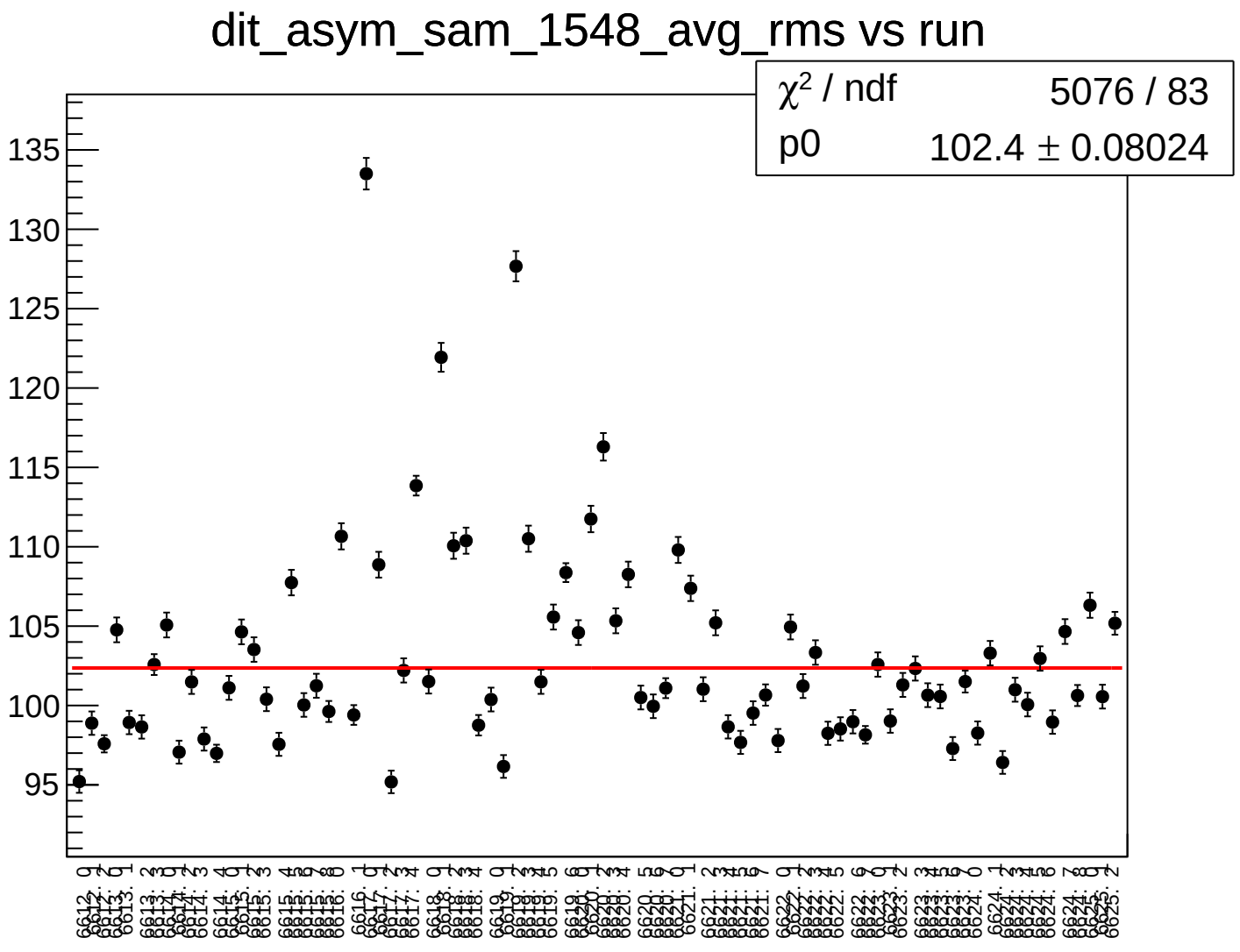

pull1D
Entries 84
Mean −0.0111
Std Dev 0.9227
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

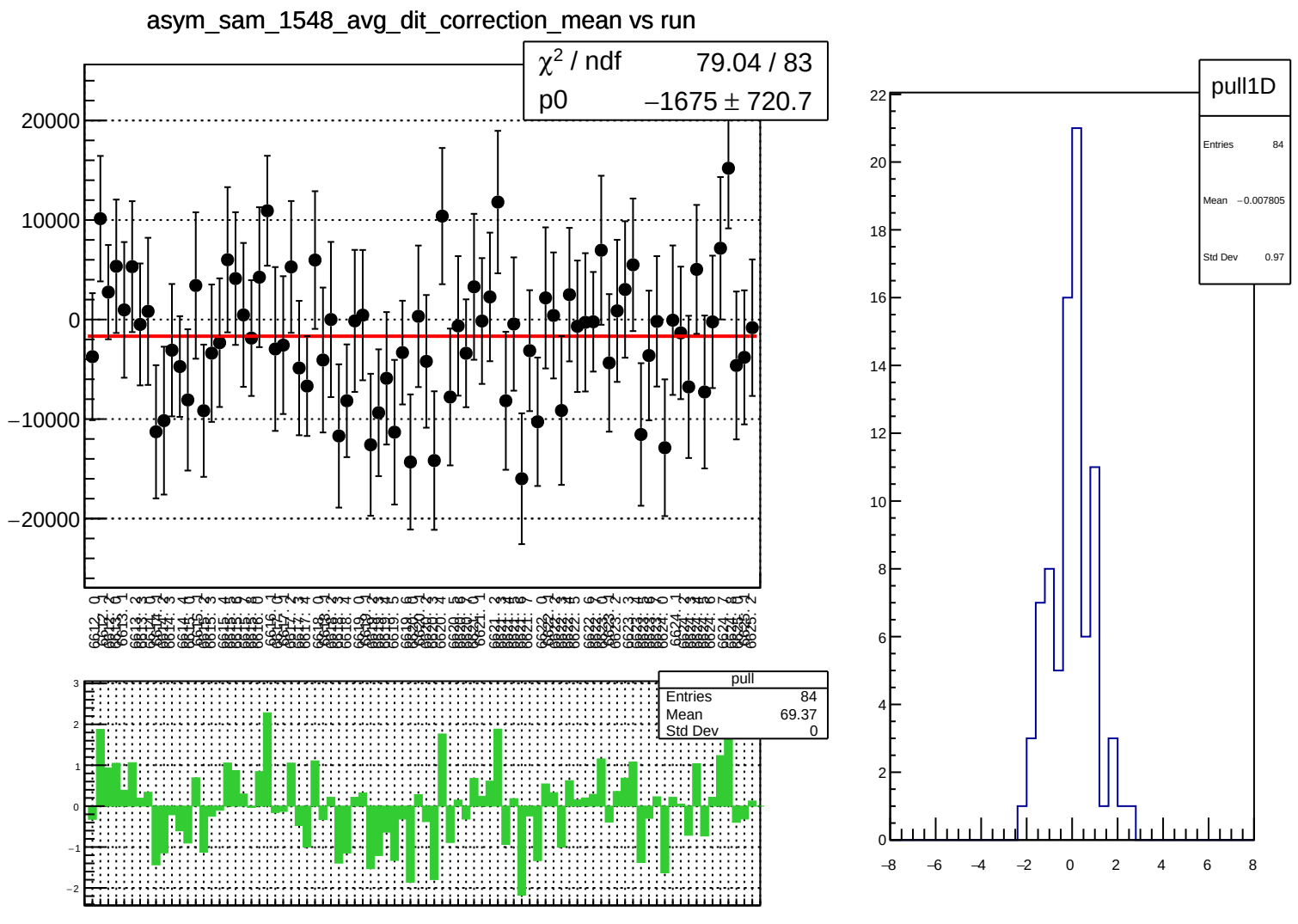

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 5906 / 83
p0 88.03 ± 0.06902
130
120
110
100
90
80

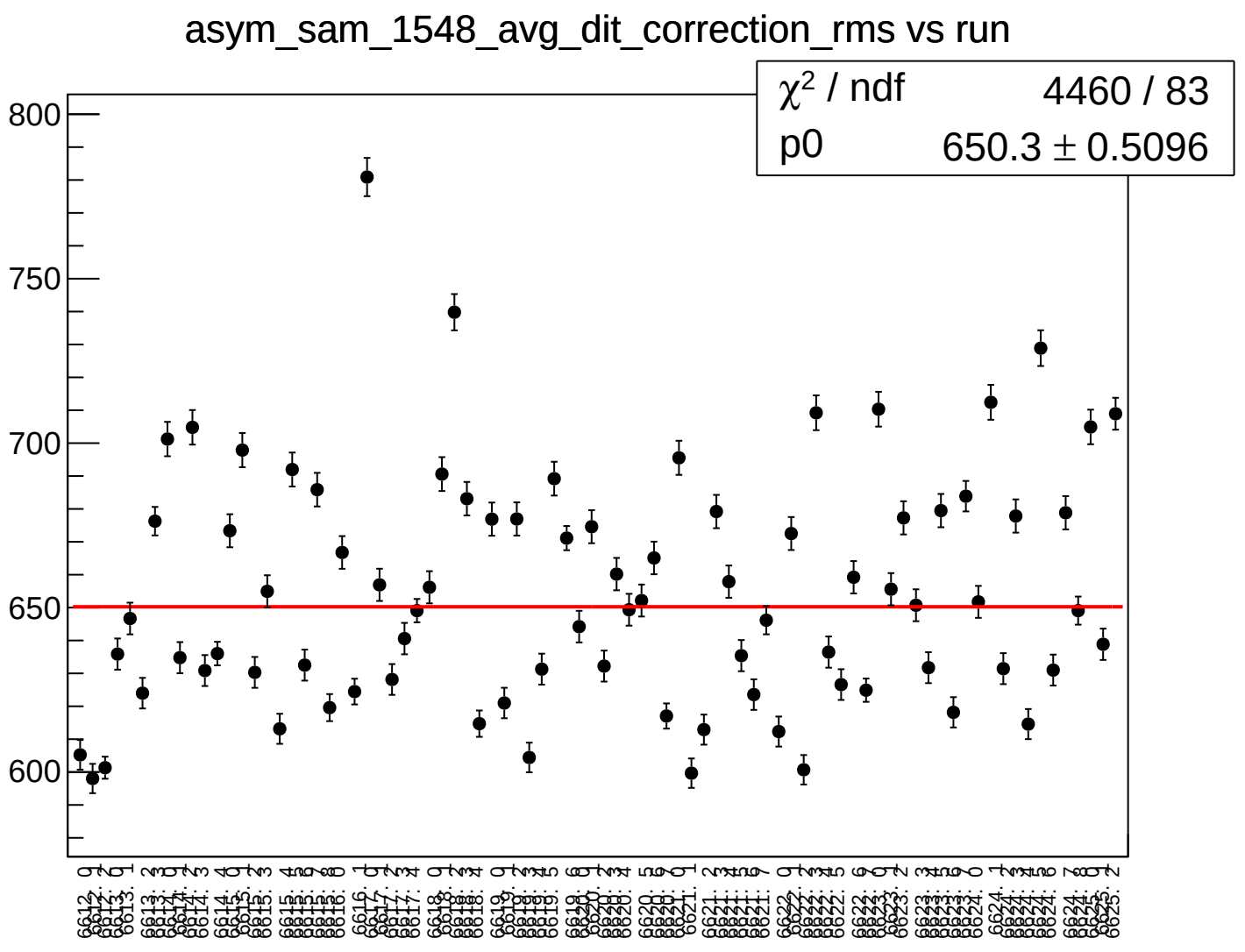

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.04 / 83
p0 −1627 ± 705.1
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 73.24
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.008469
Std Dev 0.97
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

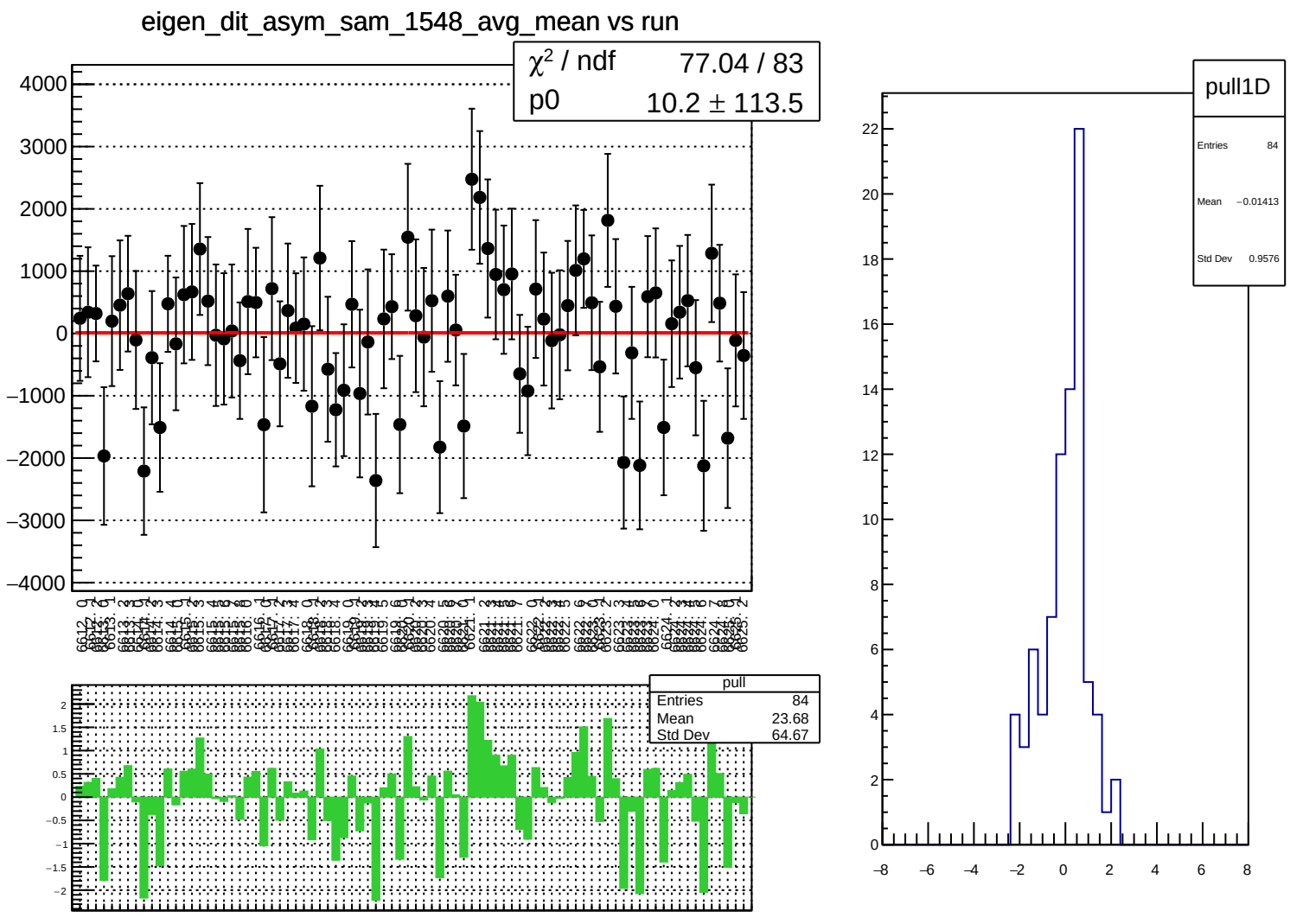

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 6555 / 83
p0 635.8 ± 0.4986
800
750
700
650
600
550

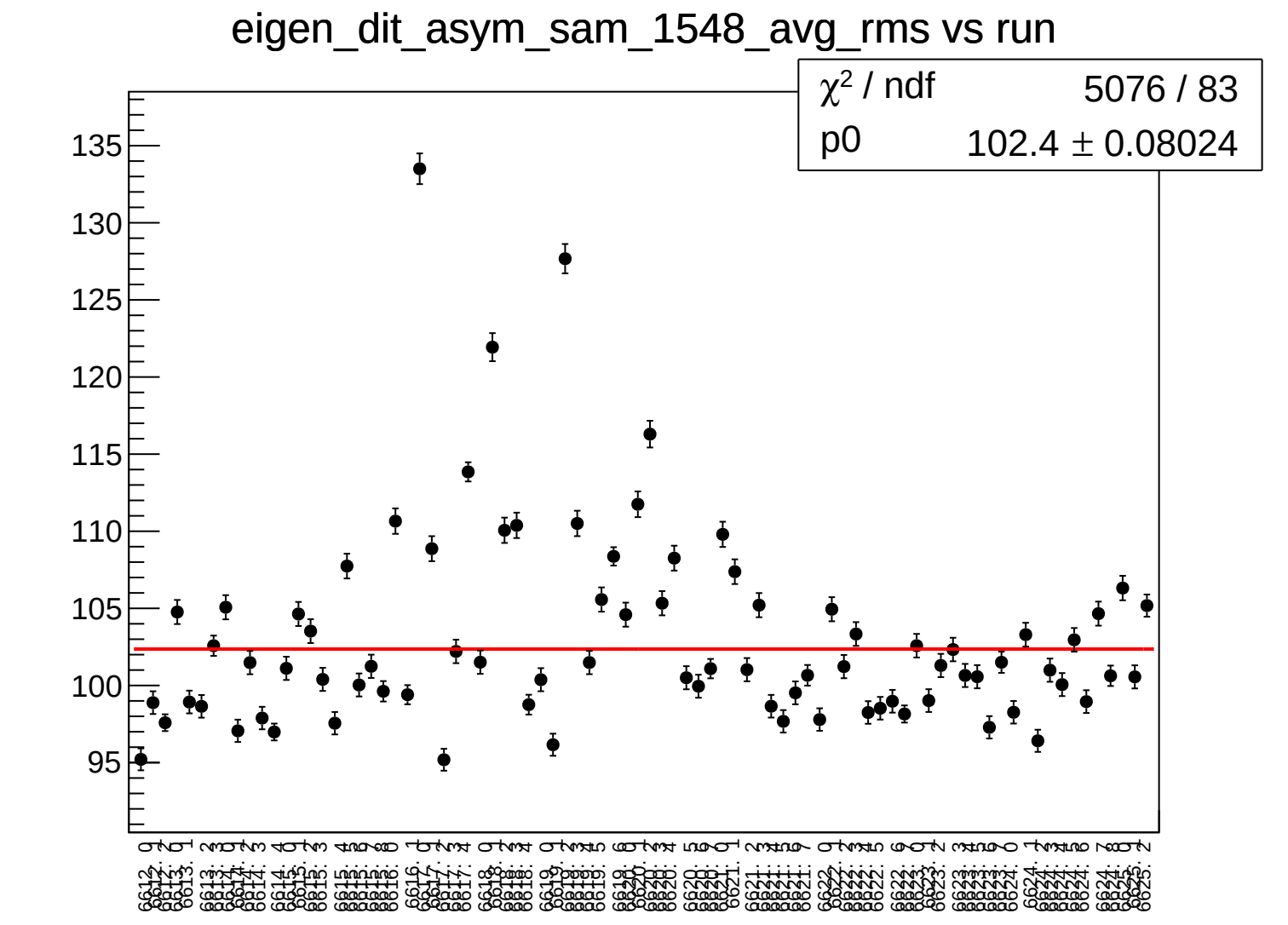

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 77.04 / 83
p0 10.2 ± 113.5
pull
Entries 84
Mean 23.67
Std Dev 64.67
pull1D
Entries 84
Mean −0.01413
Std Dev 0.9576

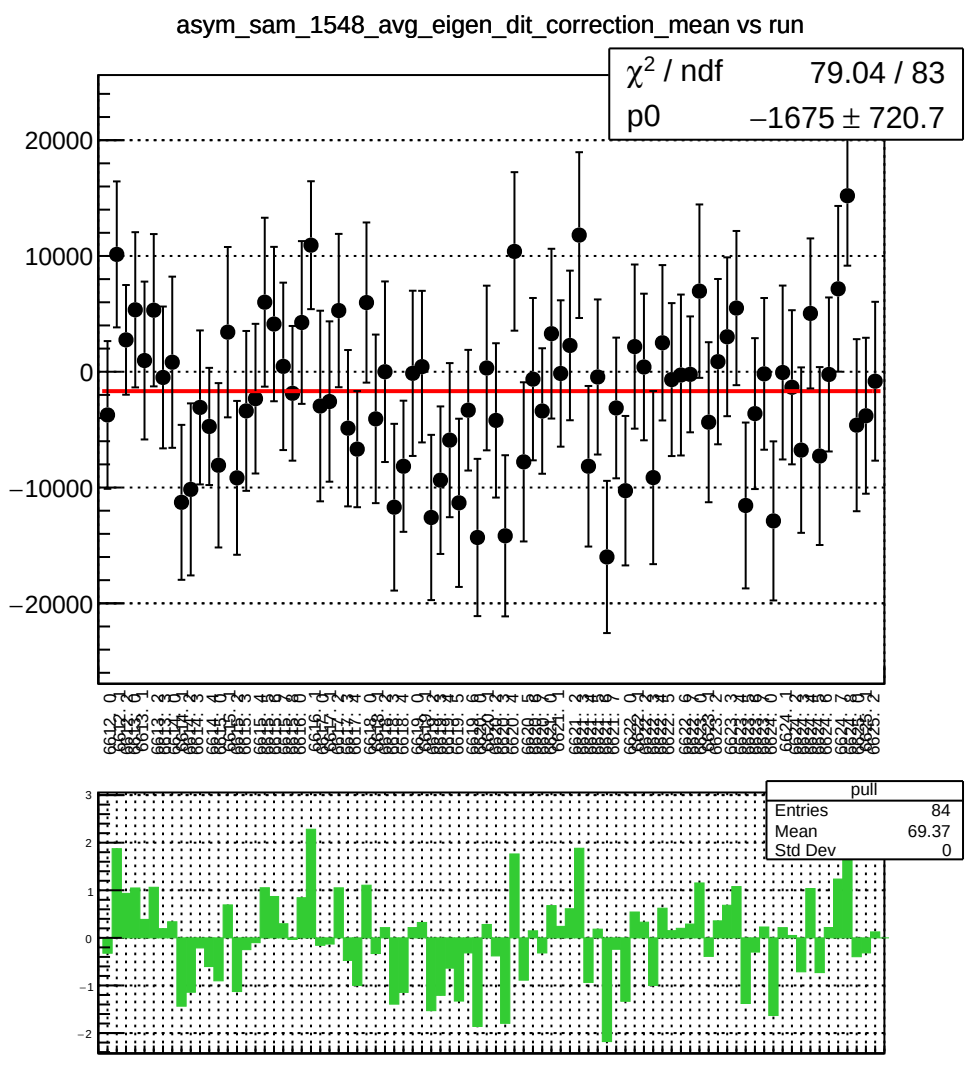

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 5076 / 83
p0 102.4 ± 0.08024
135
130
125
120
115
110
105
100
95

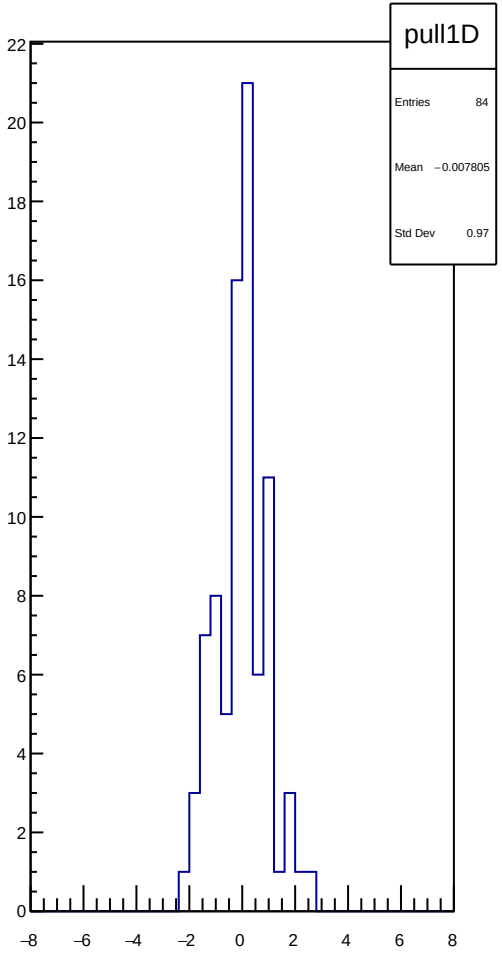

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 79.04 / 83
p0 −1675 ± 720.7
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 69.37
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.007805
Std Dev 0.97
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

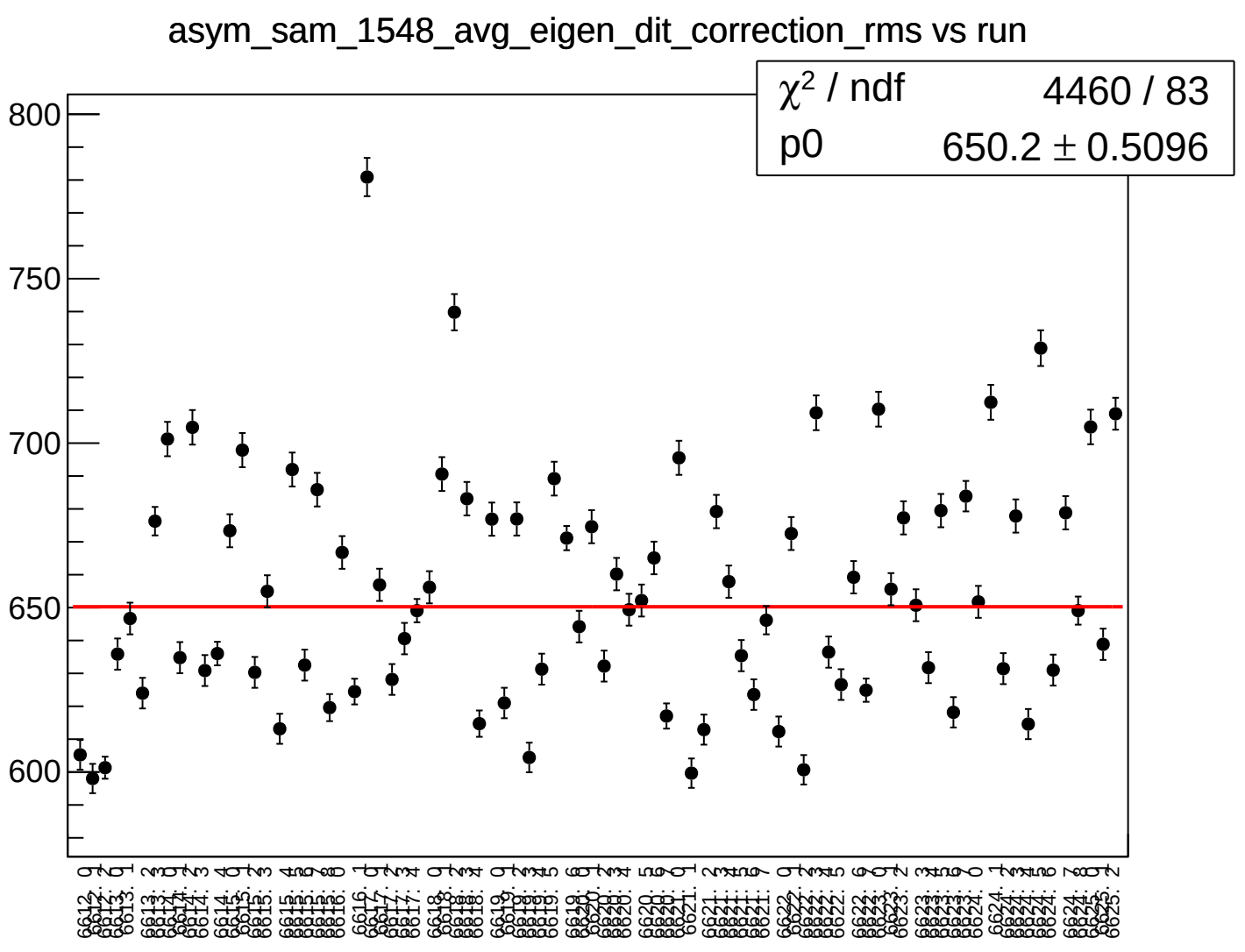

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 4460 / 83
p0 650.3 ± 0.5096
800
750
700
650
600

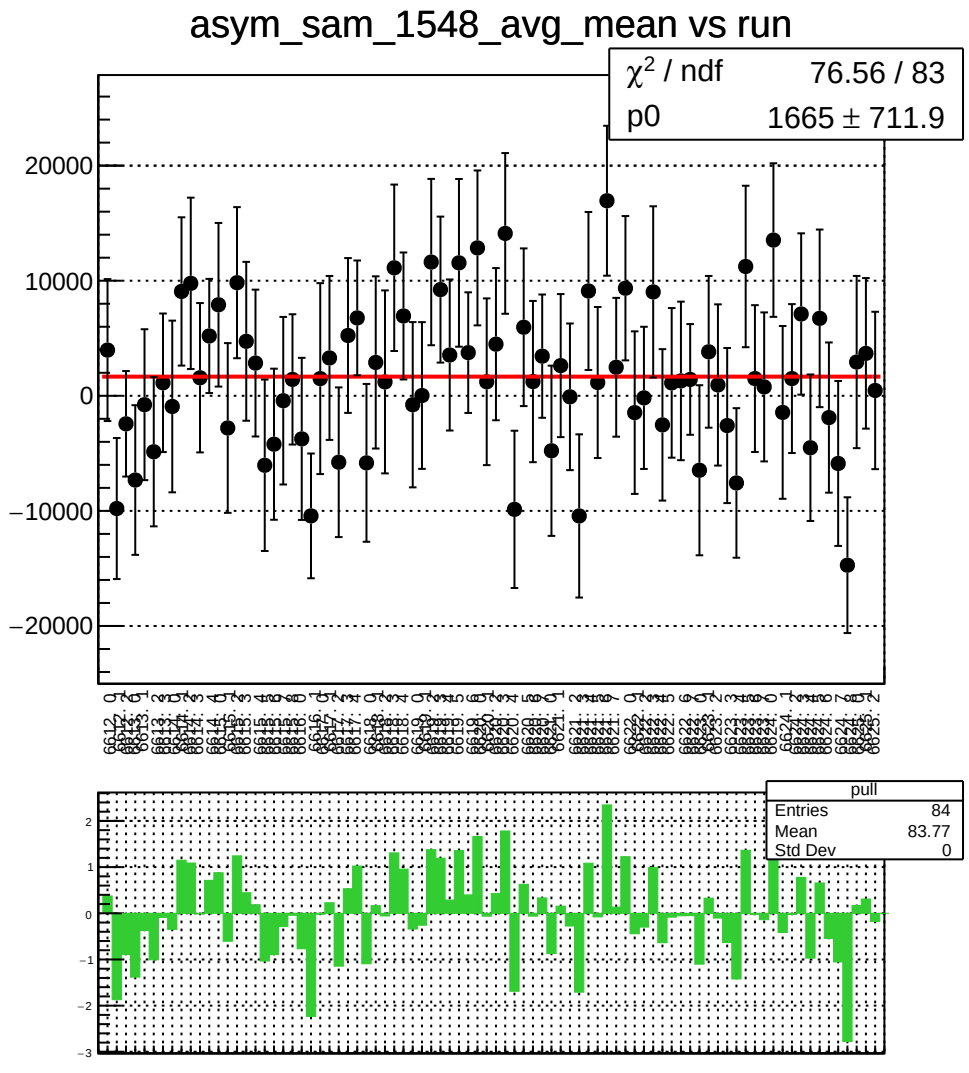

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 77.04 / 83
p0 10.2 ± 113.5
pull
Entries 84
Mean 23.68
Std Dev 64.67
pull1D
Entries 84
Mean −0.01413
Std Dev 0.9576

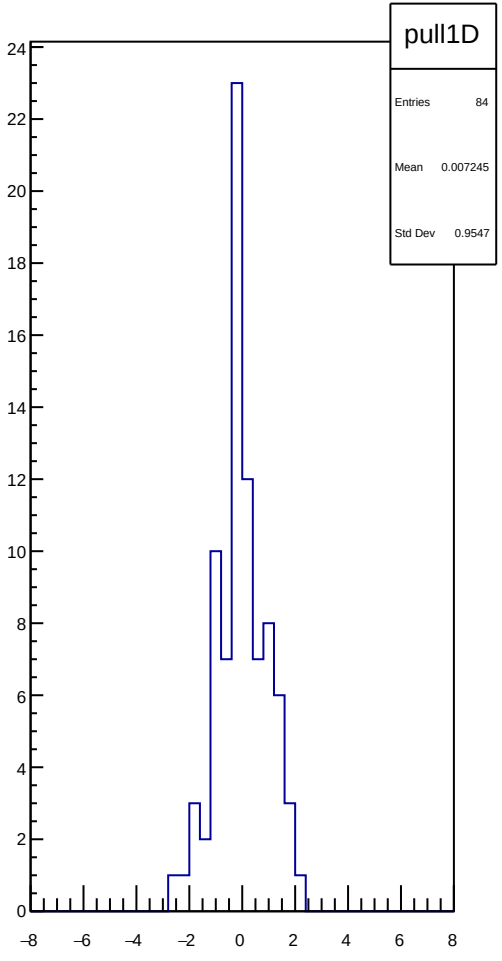

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 5076 / 83
p0 102.4 ± 0.08024
135
130
125
120
115
110
105
100
95

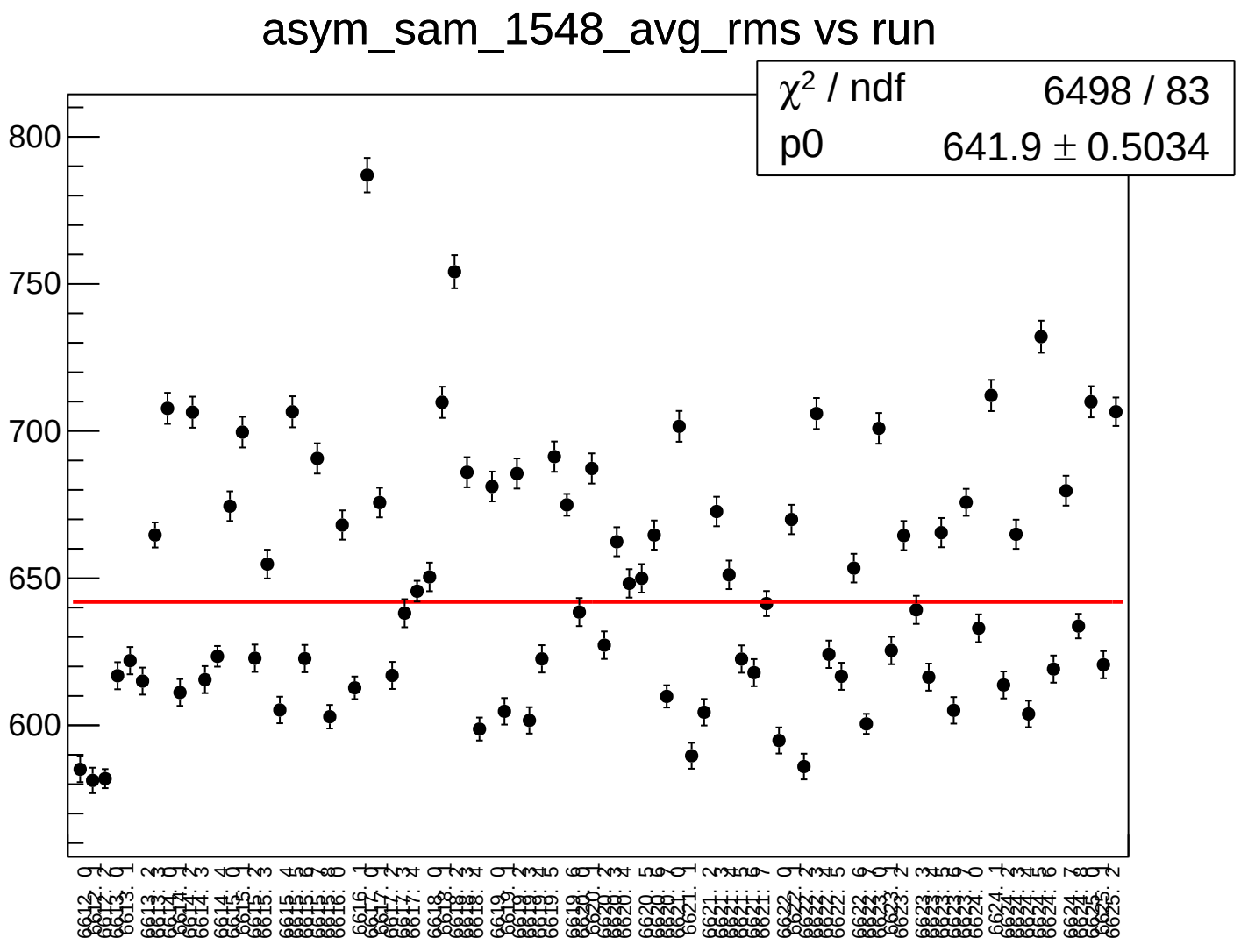

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.04 / 83
p0 −1675 ± 720.7
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 69.37
Std Dev 0
3
2
1
0
−1
−2

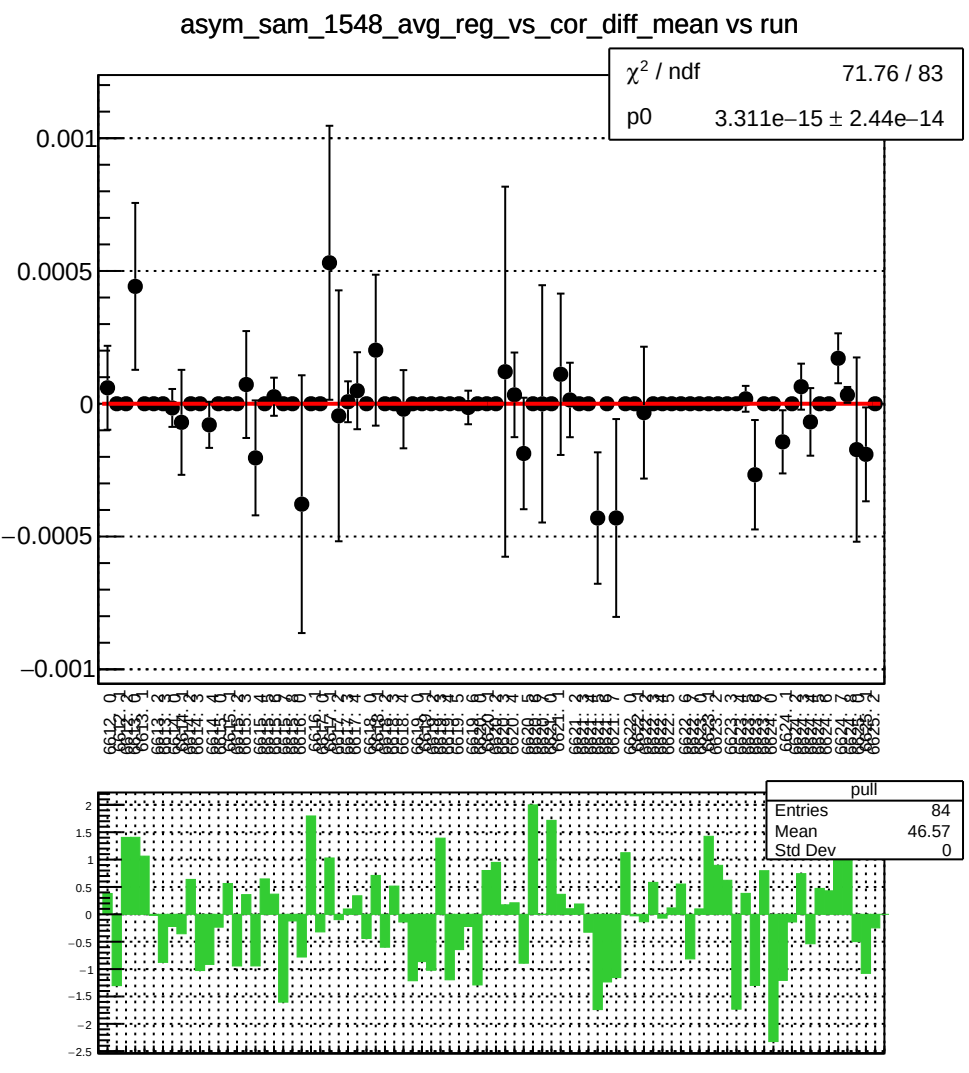

pull1D
Entries 84
Mean −0.007805
Std Dev 0.97
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

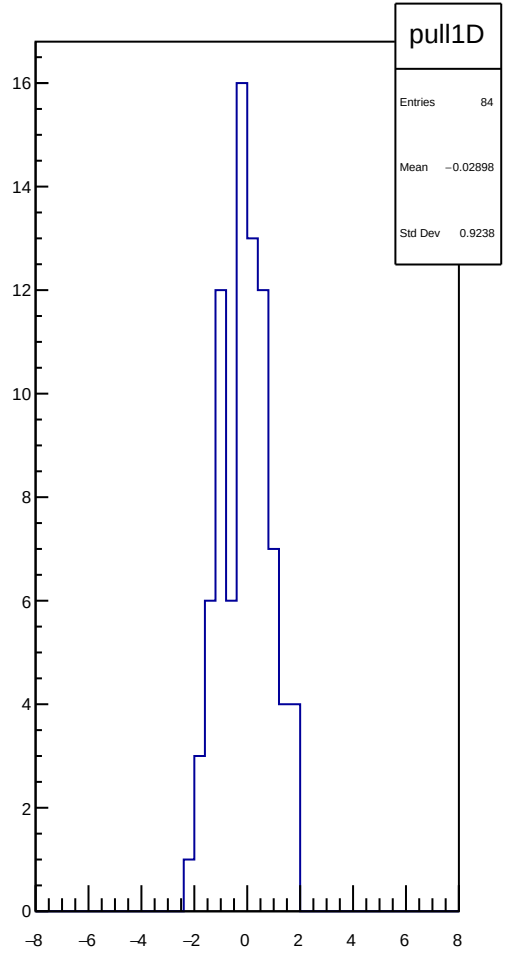

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 4460 / 83
p0 650.2 ± 0.5096
800
750
700
650
600

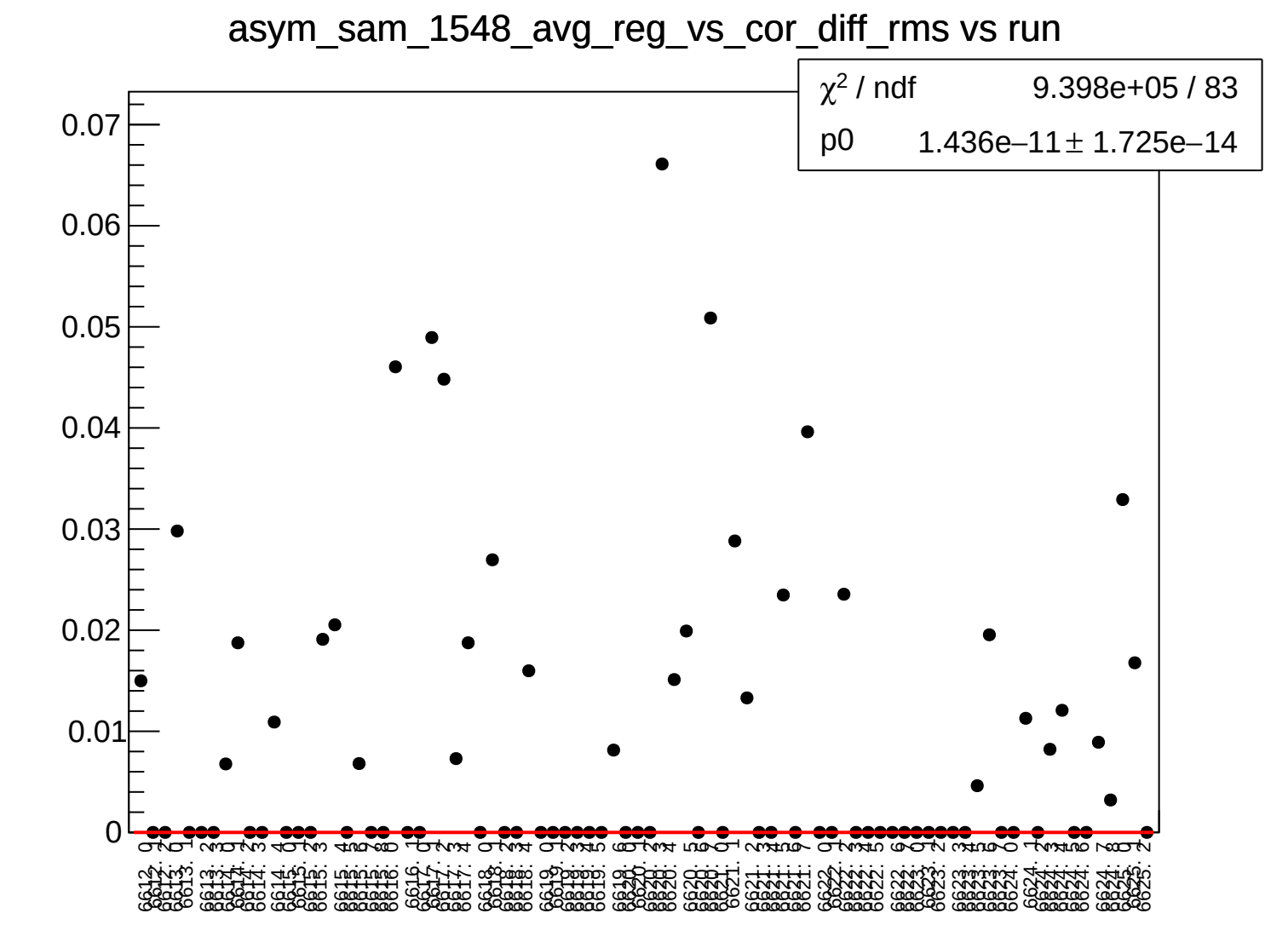

asym_sam_1548_avg_mean vs run
χ² / ndf 76.56 / 83
p0 1665 ± 711.9
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 83.77
Std Dev 0
2
1
0
−1
−2
−3

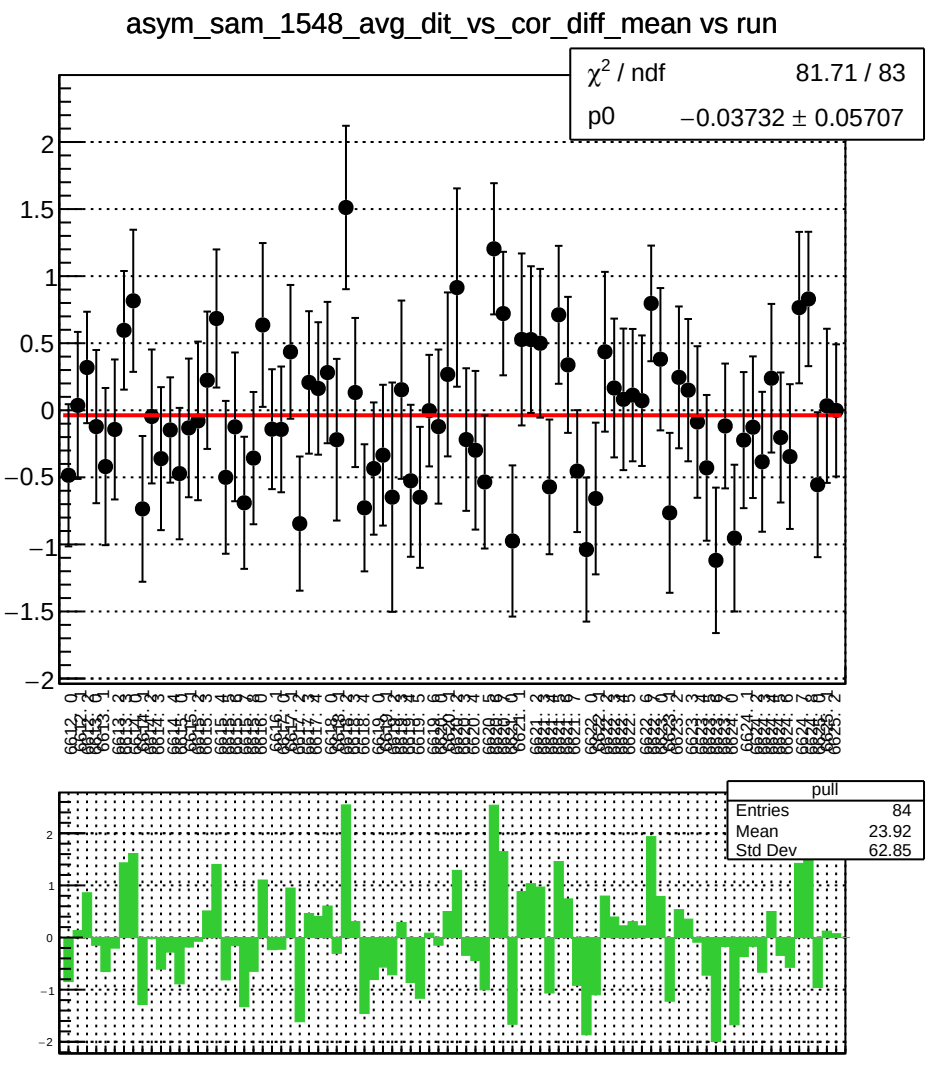

pull1D
Entries 84
Mean 0.007245
Std Dev 0.9547
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

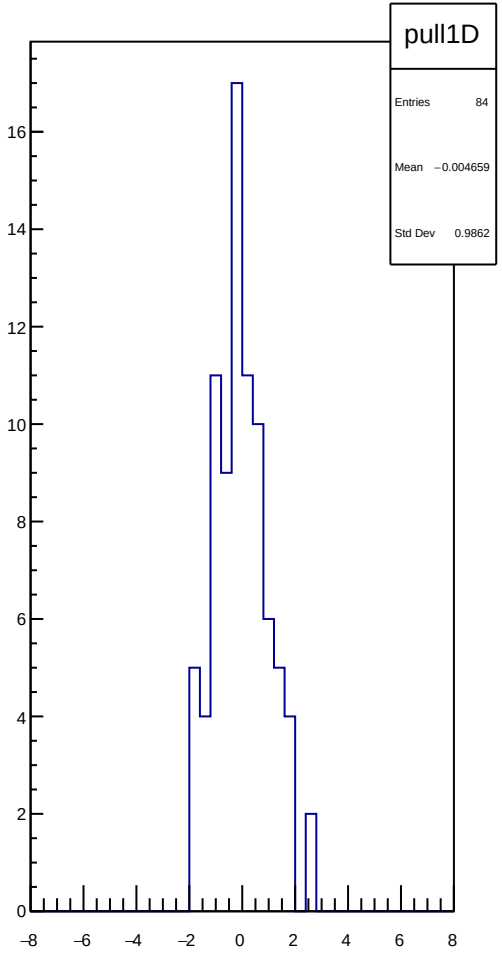

asym_sam_1548_avg_rms vs run
χ² / ndf 6498 / 83
p0 641.9 ± 0.5034
800
750
700
650
600

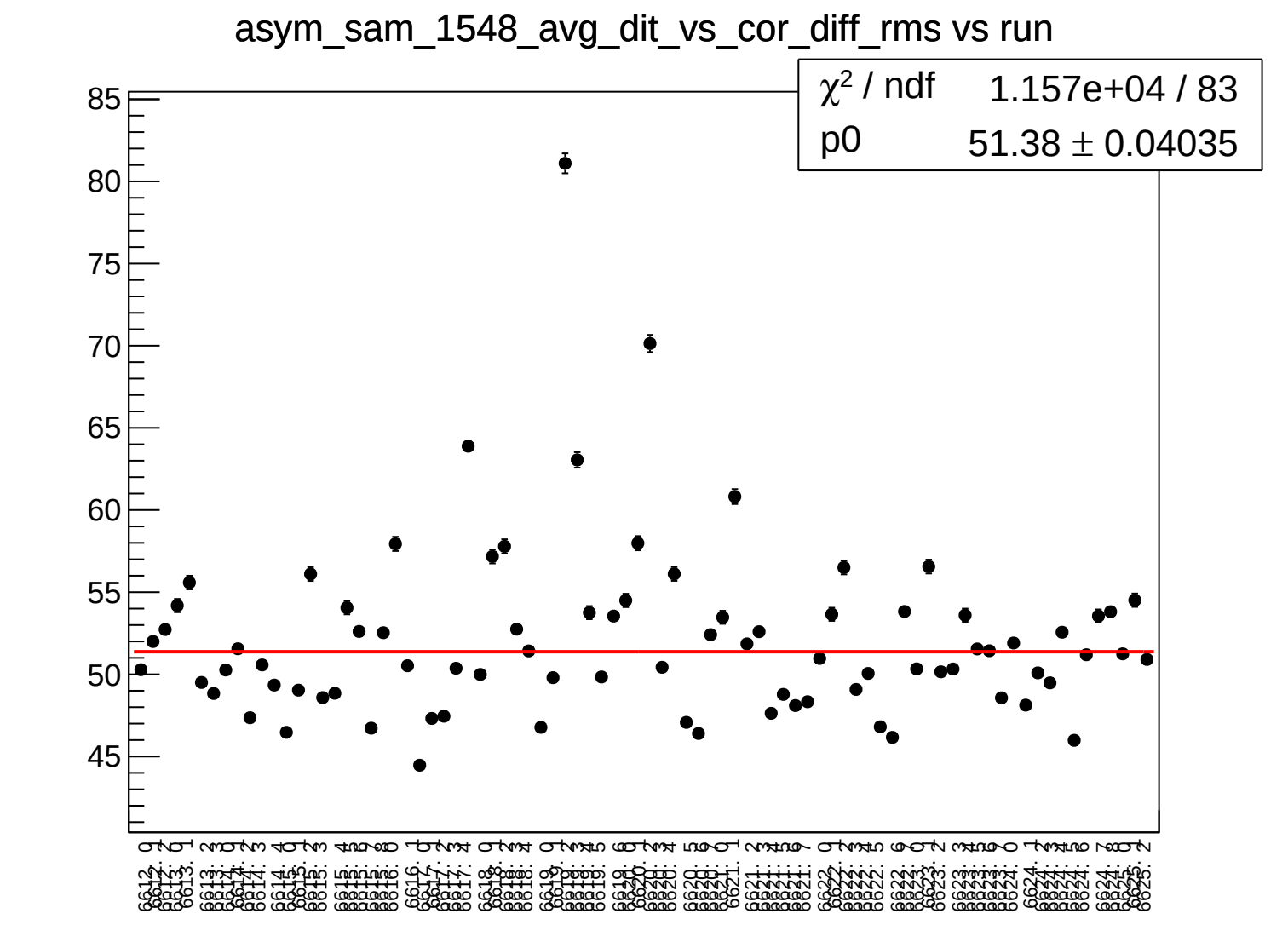

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 71.76 / 83
p0 3.311e−15 ± 2.44e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 84
Mean 46.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

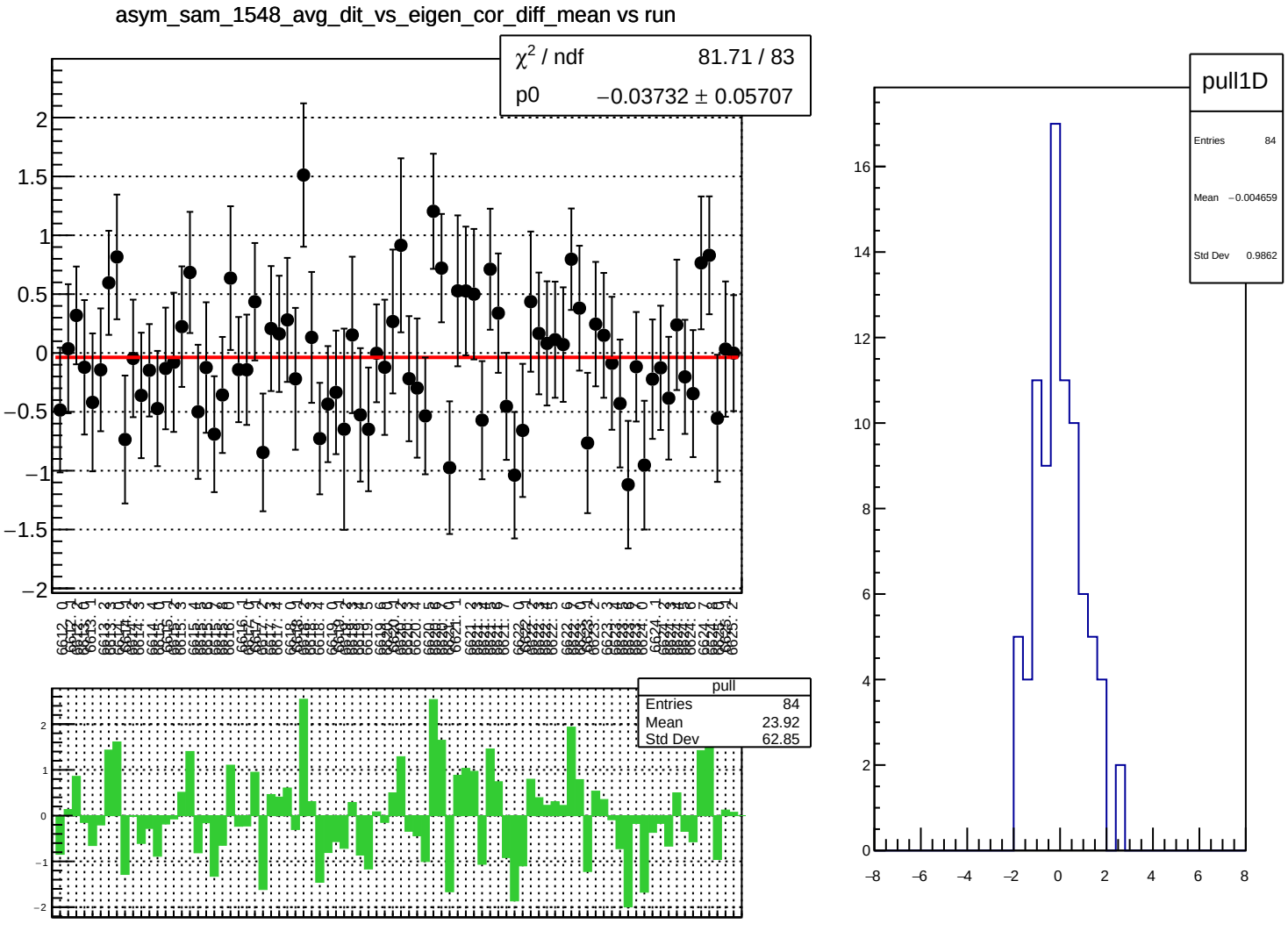

pull1D
Entries 84
Mean −0.02898
Std Dev 0.9238
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

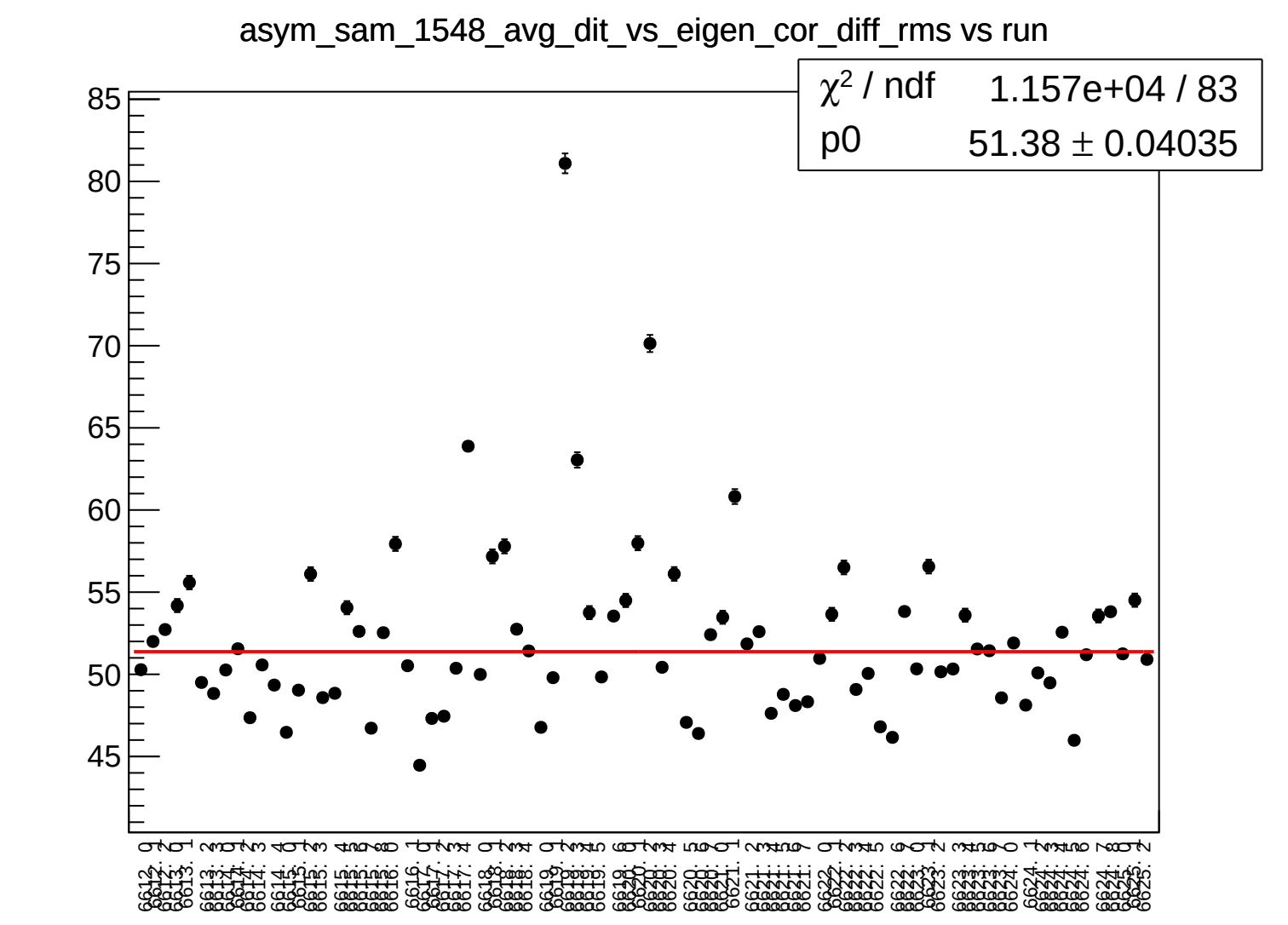

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.398e+05 / 83
p0 1.436e−11 ± 1.725e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

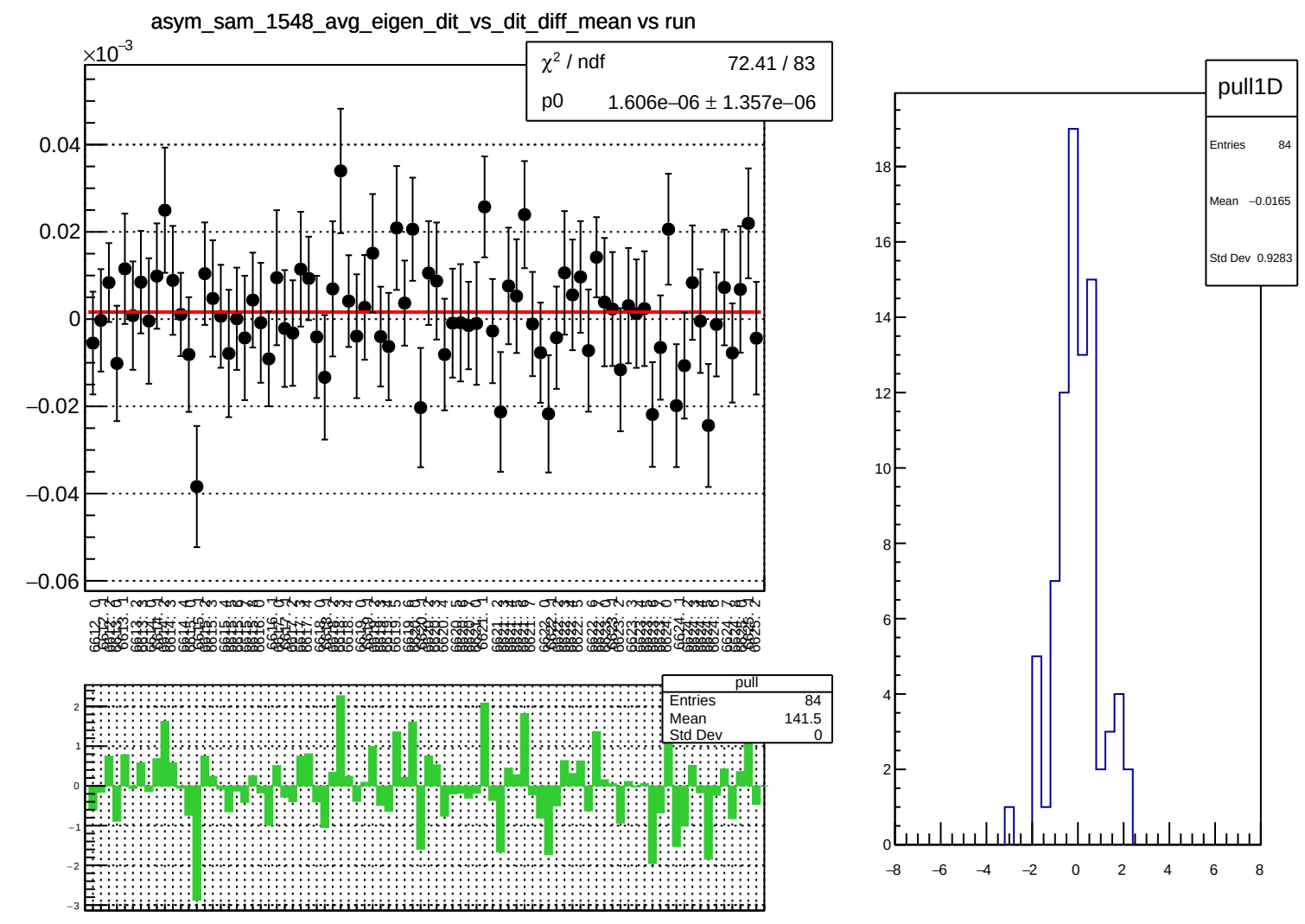

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.71 / 83
p0 −0.03732 ± 0.05707
pull
Entries 84
Mean 23.92
Std Dev 62.85

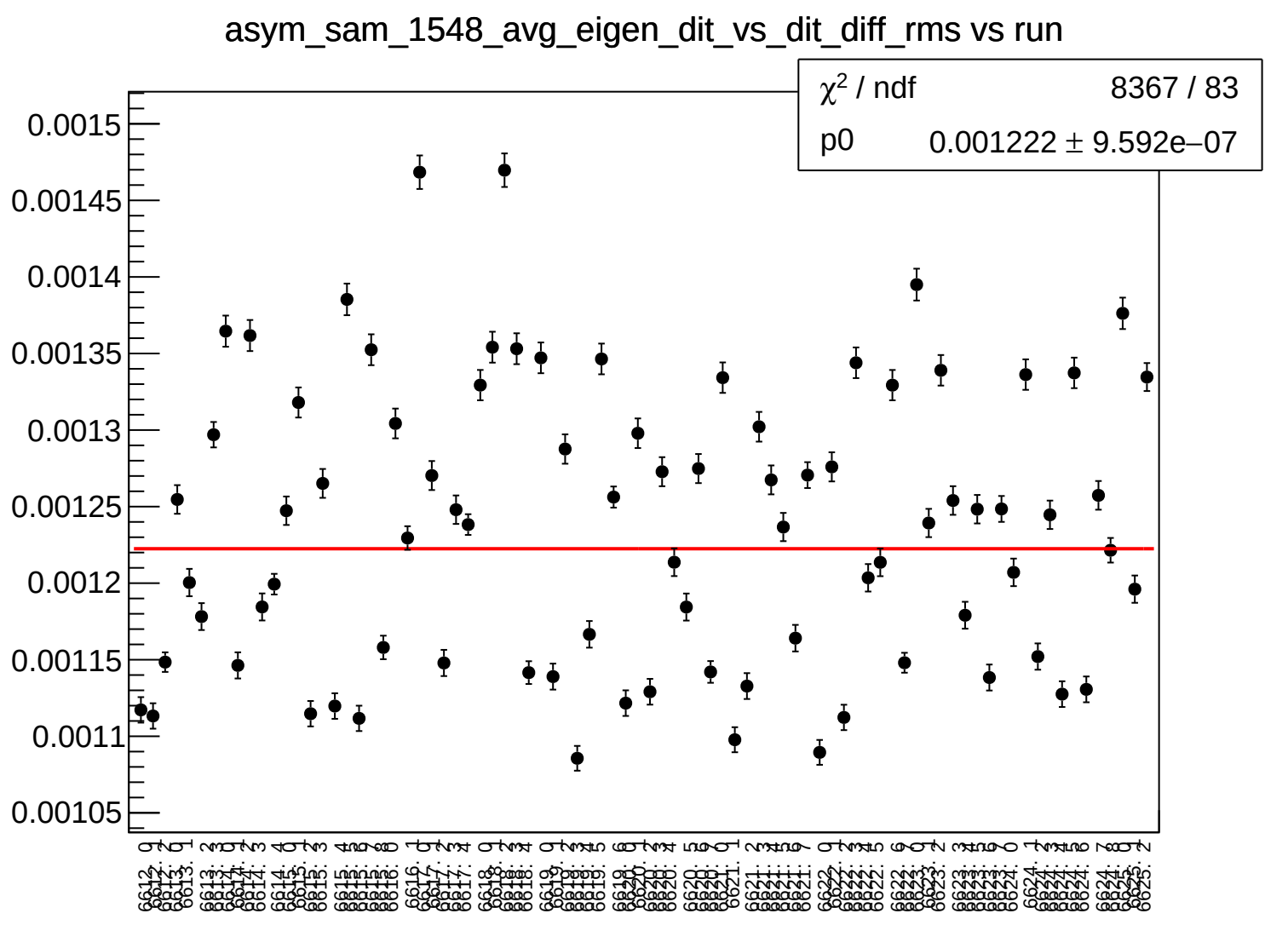

pull1D
Entries 84
Mean −0.004659
Std Dev 0.9862

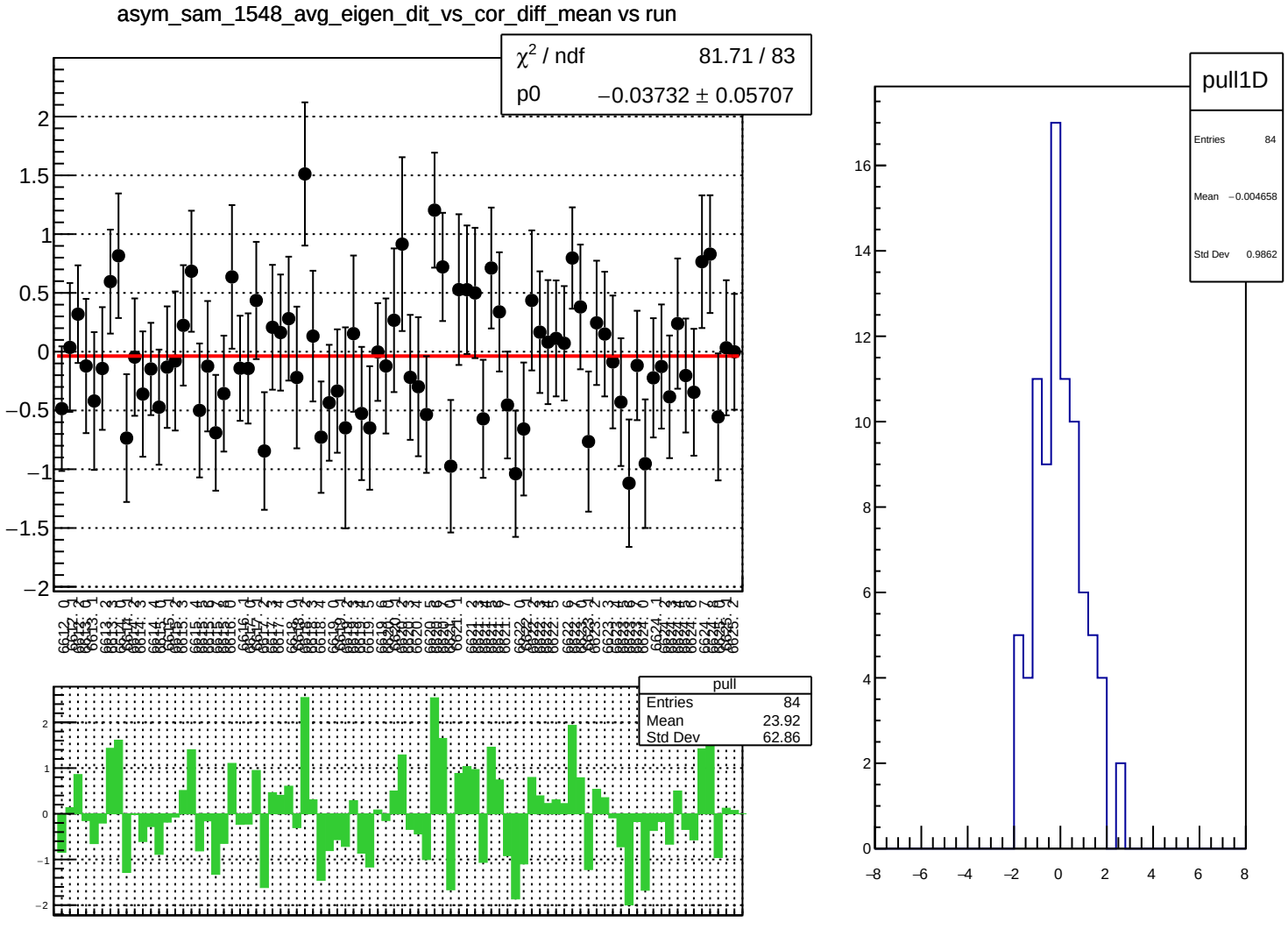

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.157e+04 / 83
p0 51.38 ± 0.04035
85
80
75
70
65
60
55
50
45

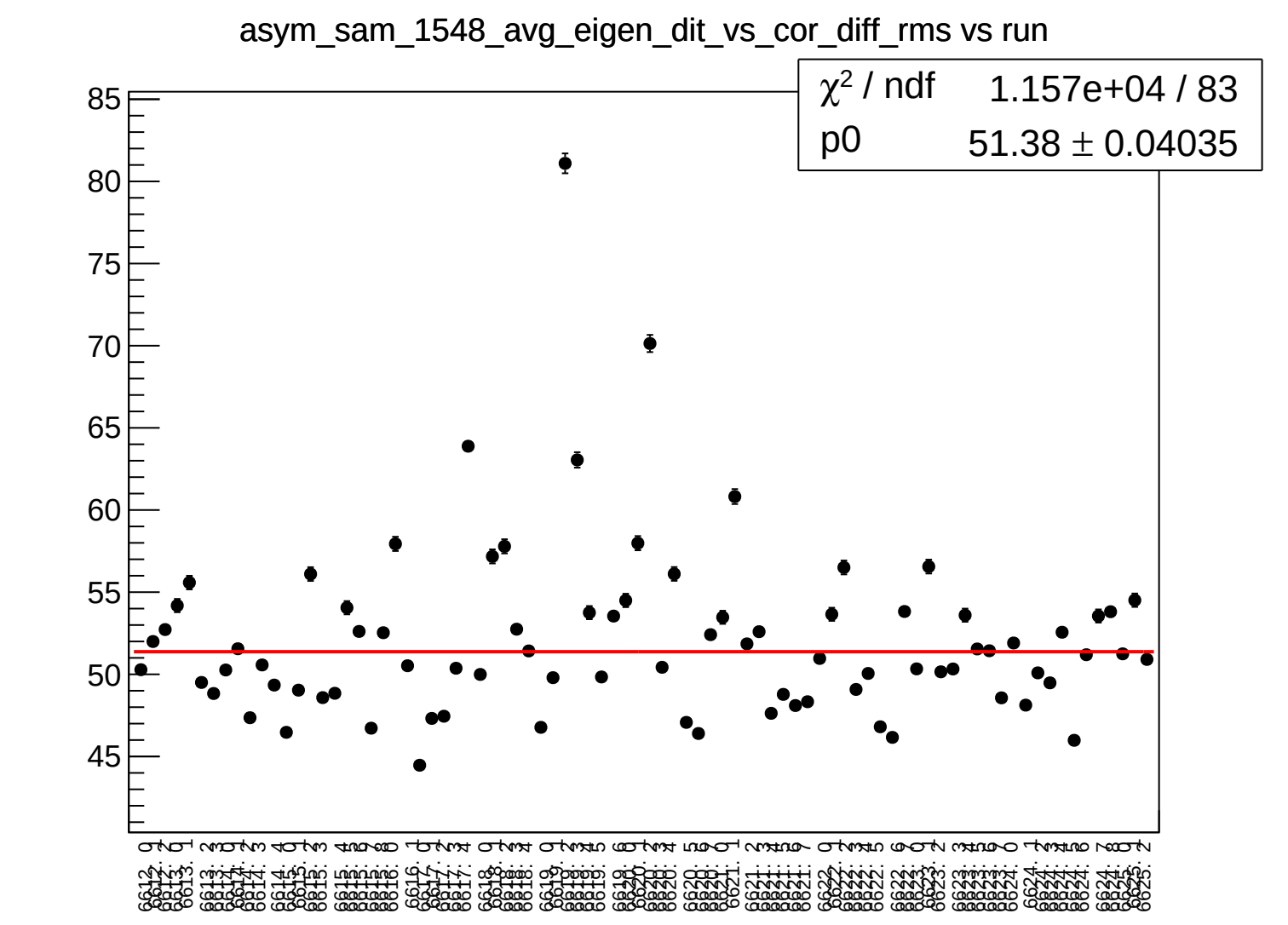

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.71 / 83
p0 −0.03732 ± 0.05707
pull
Entries 84
Mean 23.92
Std Dev 62.85
pull1D
Entries 84
Mean −0.004659
Std Dev 0.9862

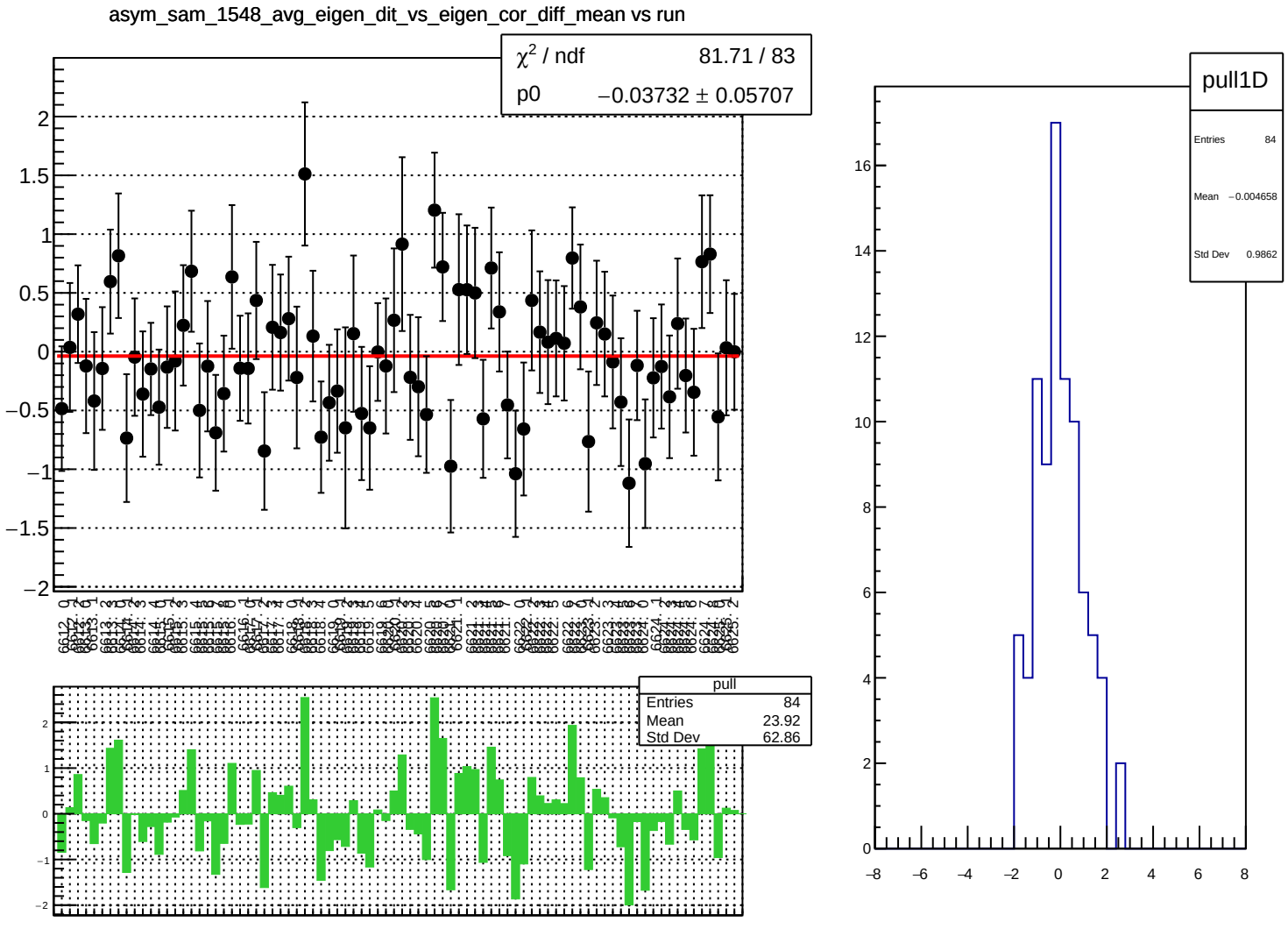

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.157e+04 / 83
p0 51.38 ± 0.04035
85
80
75
70
65
60
55
50
45

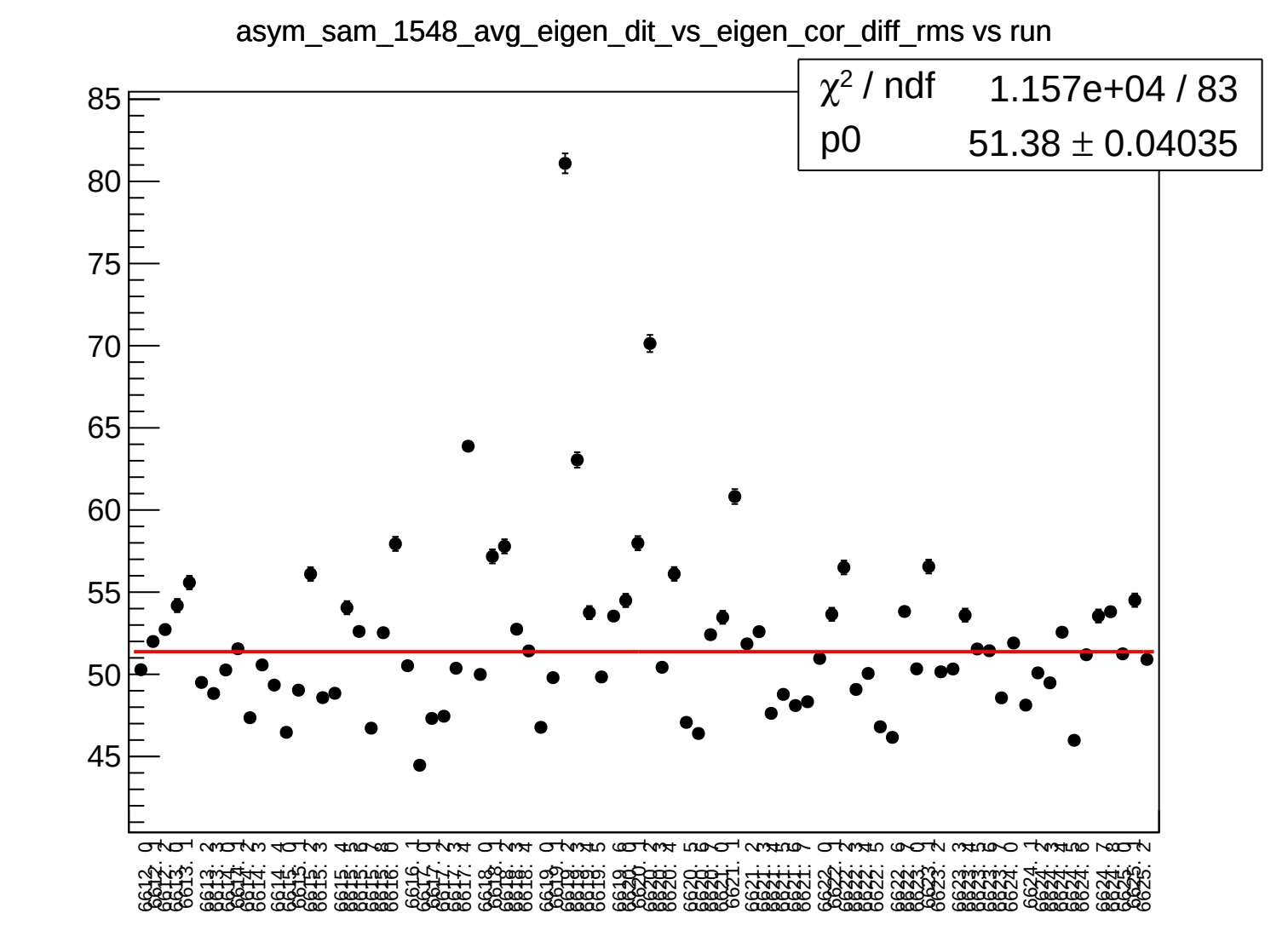

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.41 / 83
p0 1.606e−06 ± 1.357e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 84
Mean 141.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.0165
Std Dev 0.9283
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

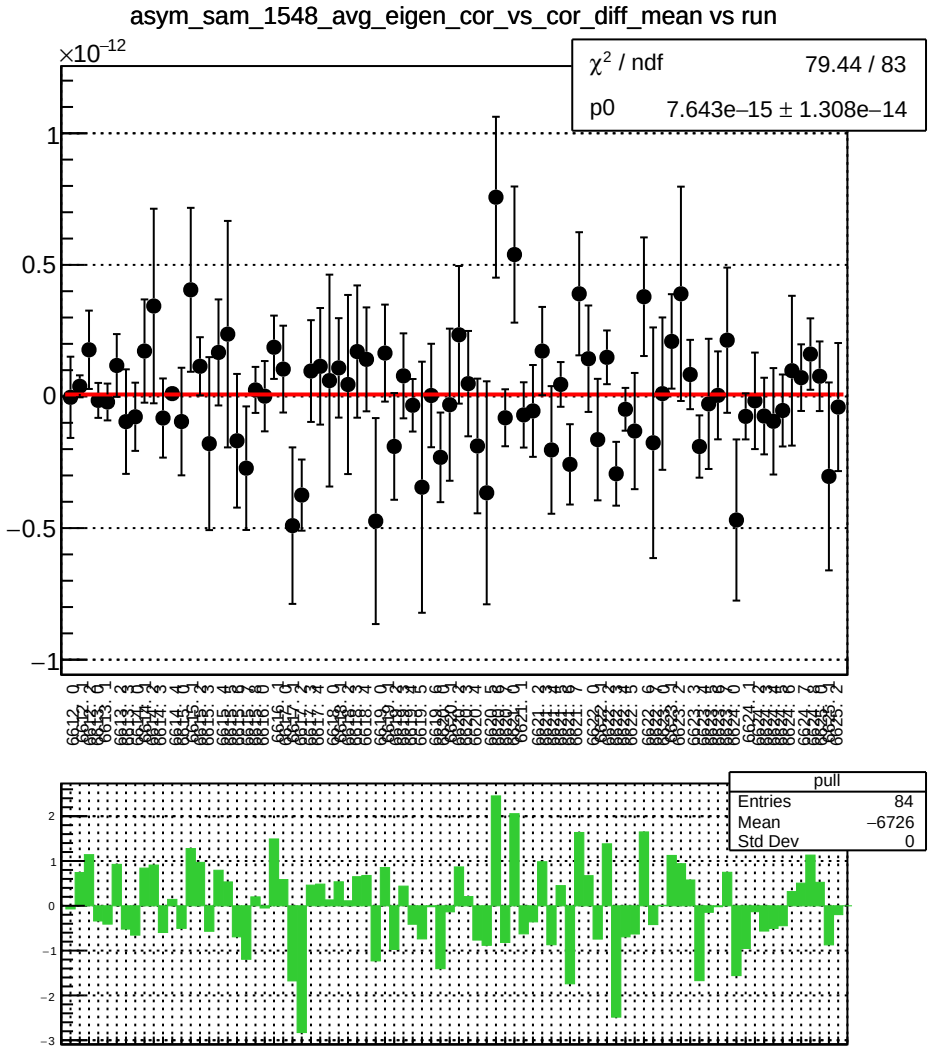

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8367 / 83
p0 0.001222 ± 9.592e−07
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105

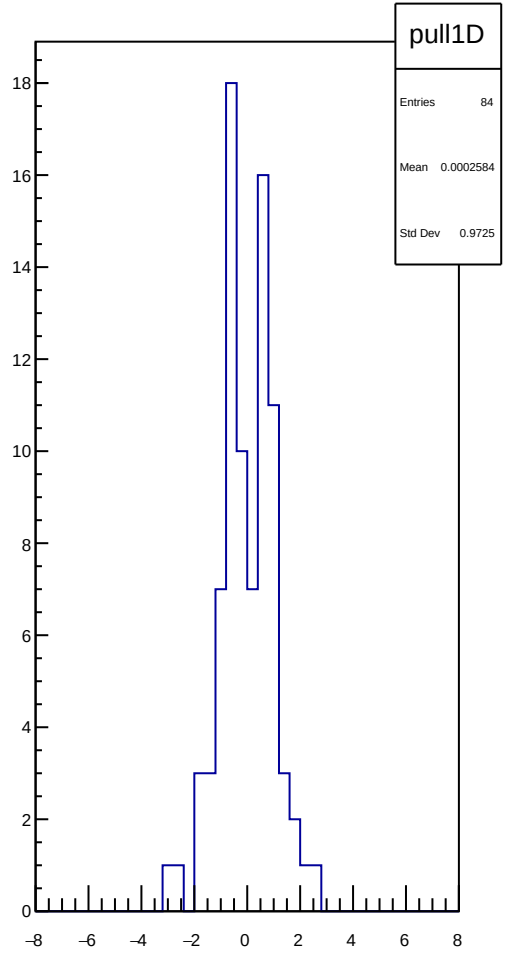

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.71 / 83
p0 −0.03732 ± 0.05707
pull
Entries 84
Mean 23.92
Std Dev 62.86
pull1D
Entries 84
Mean −0.004658
Std Dev 0.9862

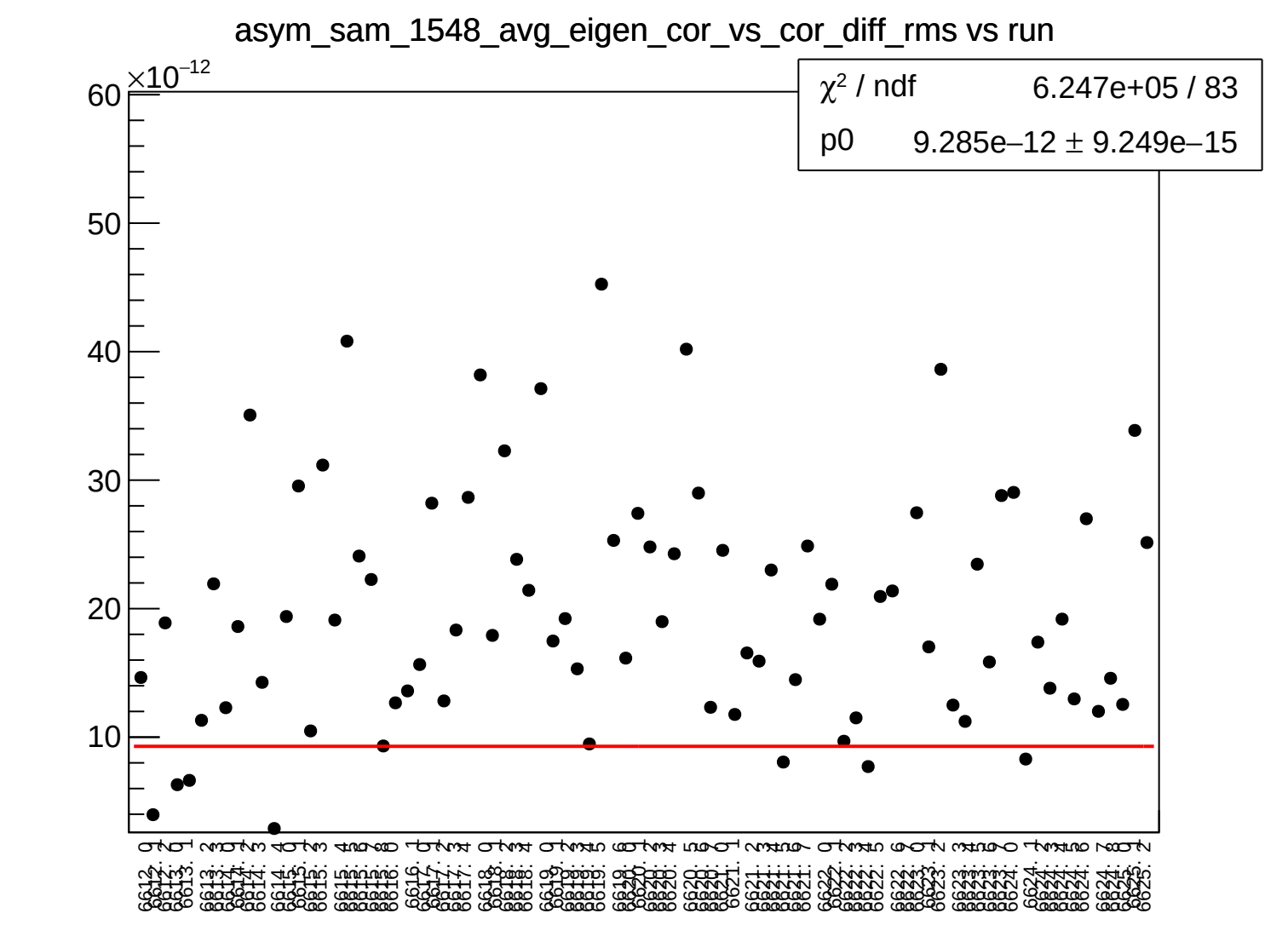

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.157e+04 / 83
p0 51.38 ± 0.04035
85
80
75
70
65
60
55
50
45

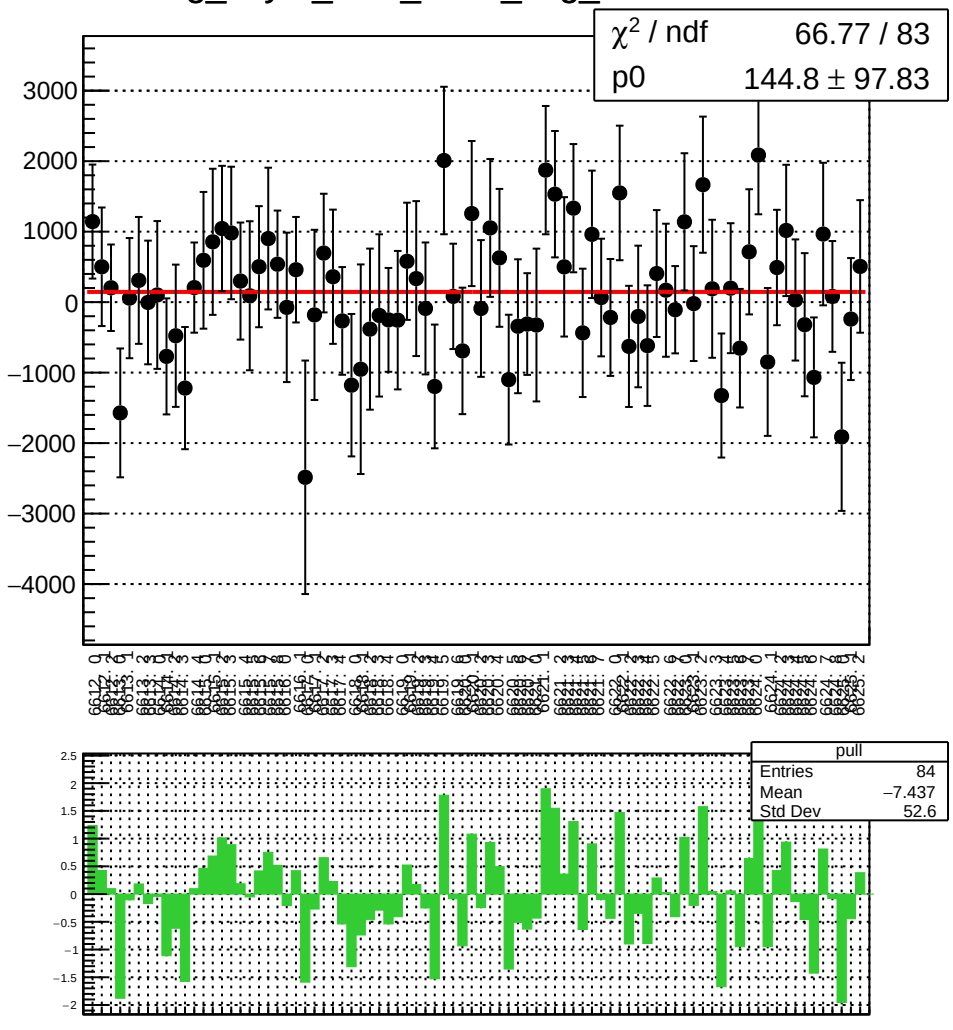

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.71 / 83
p0 −0.03732 ± 0.05707
pull
Entries 84
Mean 23.92
Std Dev 62.86
pull1D
Entries 84
Mean −0.004658
Std Dev 0.9862

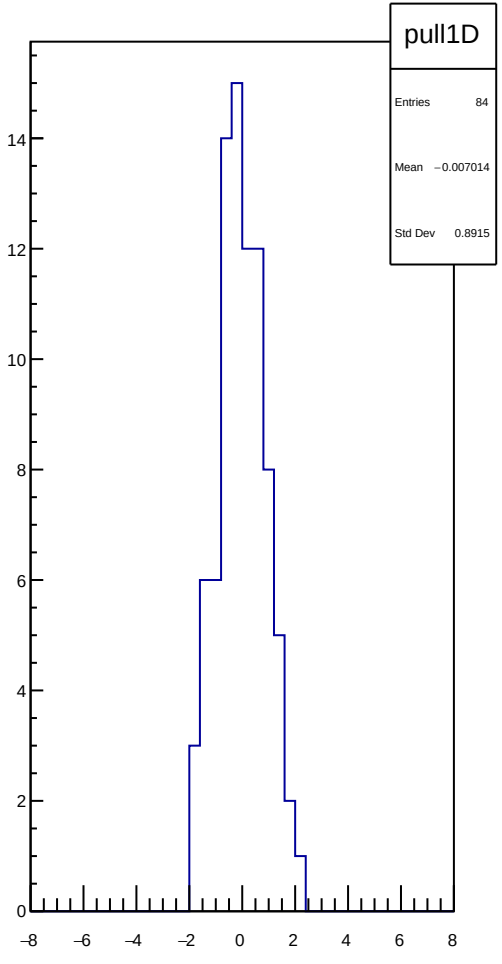

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.157e+04 / 83
p0 51.38 ± 0.04035
85
80
75
70
65
60
55
50
45

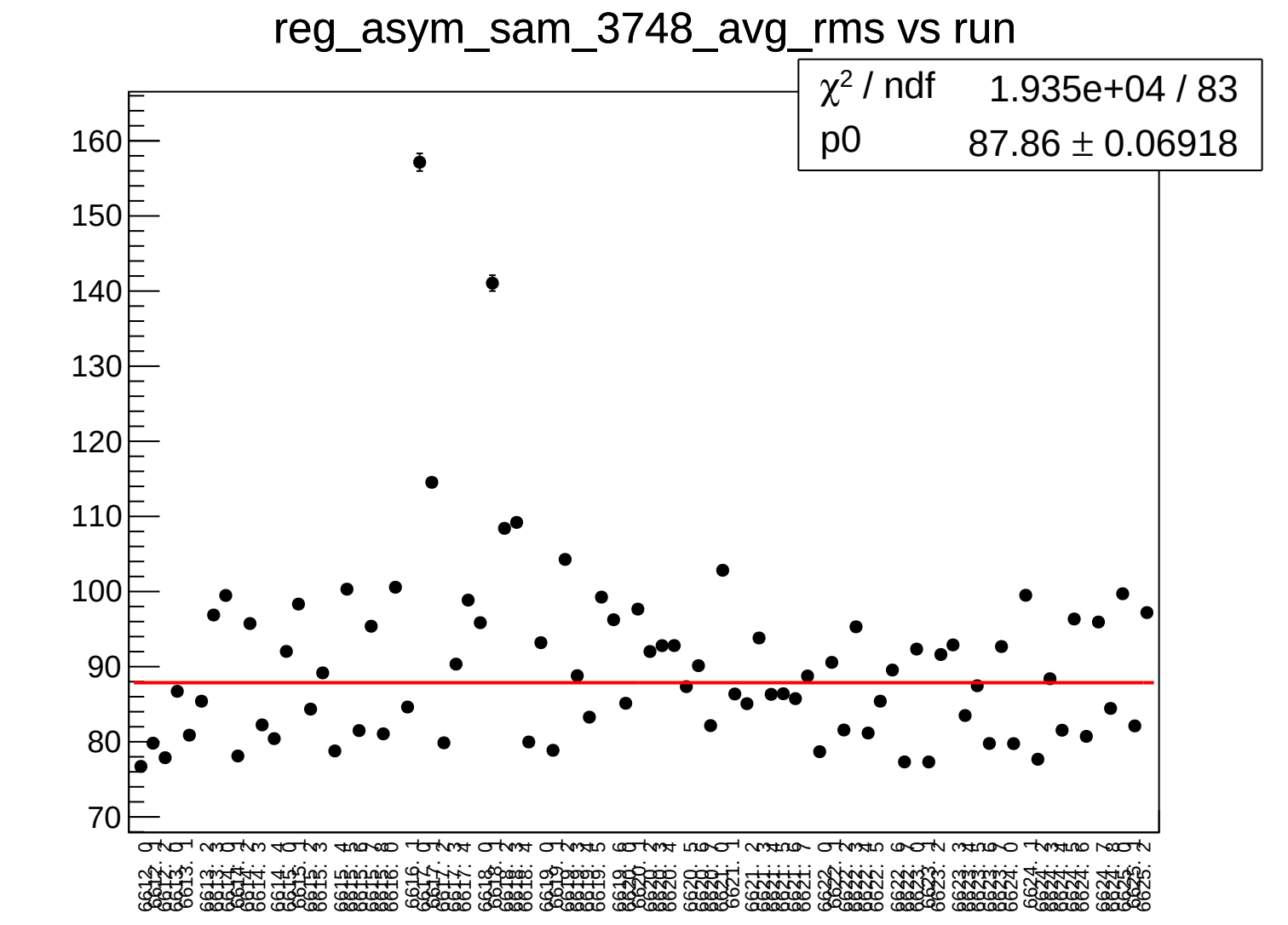

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.44 / 83
p0 7.643e−15 ± 1.308e−14
pull
Entries 84
Mean −6726
Std Dev 0

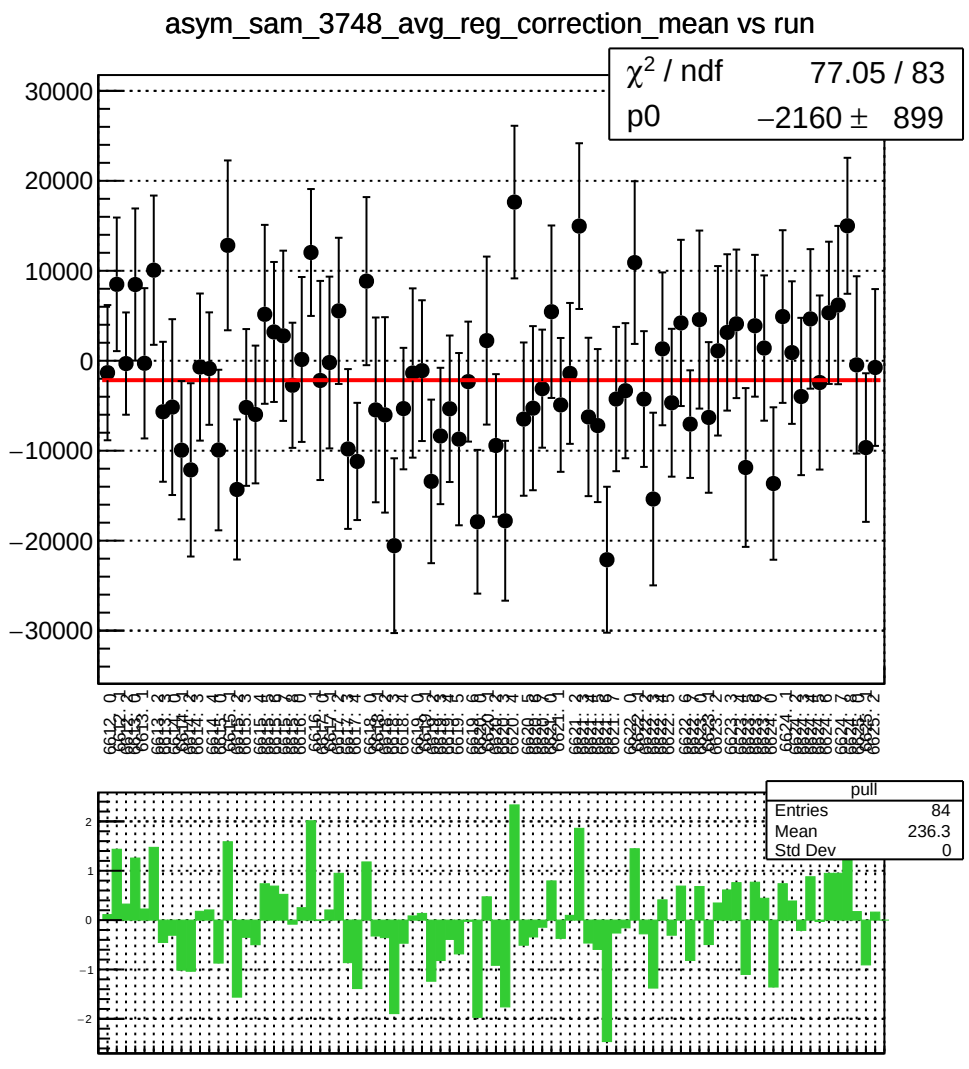

pull1D
Entries 84
Mean 0.0002584
Std Dev 0.9725

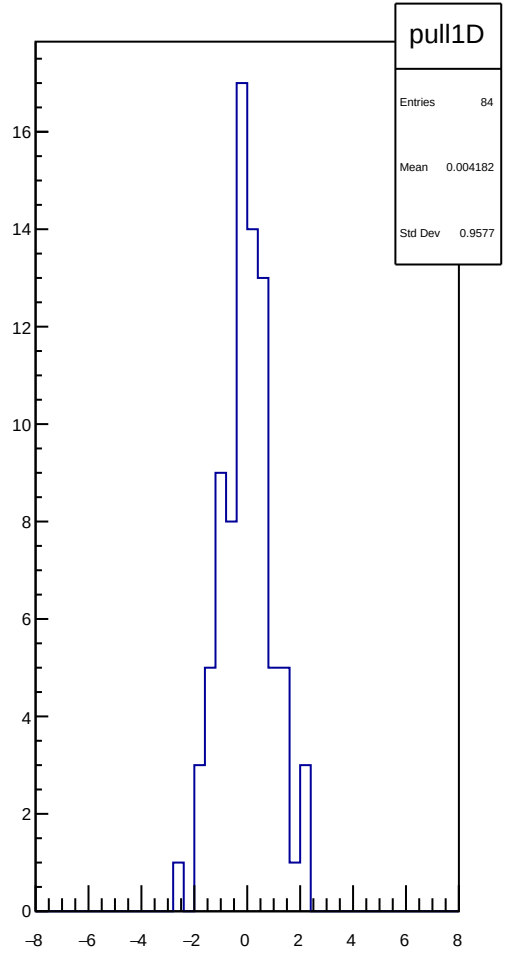

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 6.247e+05 / 83
p0 9.285e−12 ± 9.249e−15

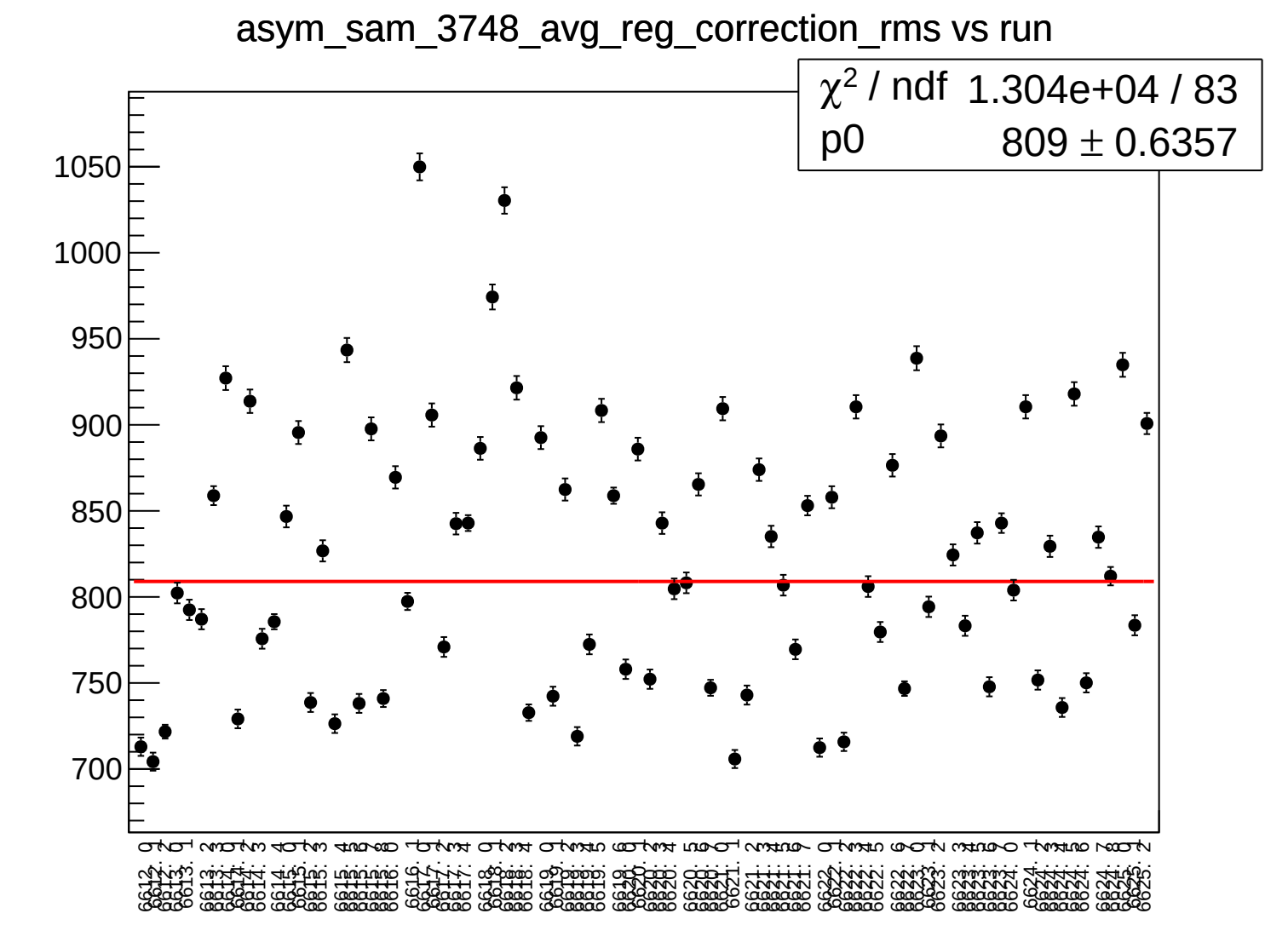

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 66.77 / 83
p0 144.8 ± 97.83
pull
Entries 84
Mean −7.437
Std Dev 52.6

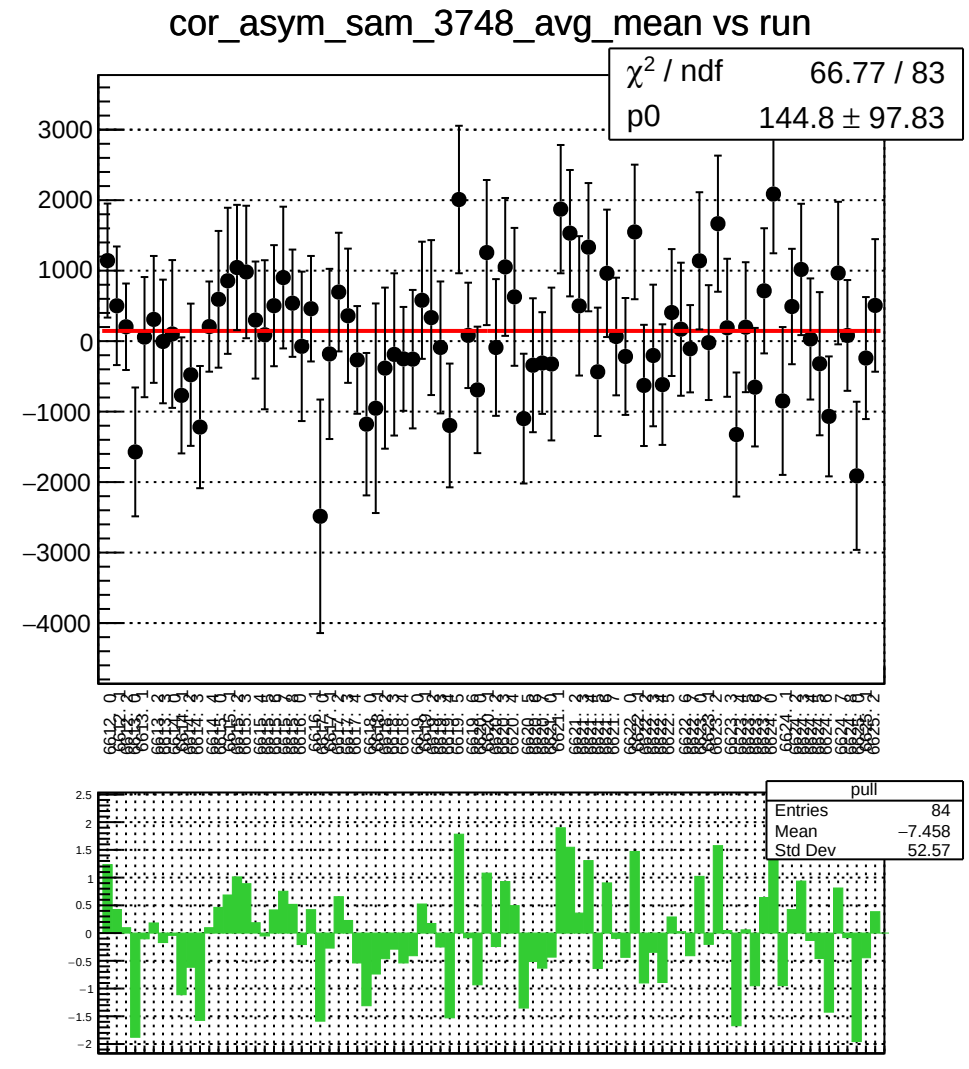

pull1D
Entries 84
Mean −0.007014
Std Dev 0.8915

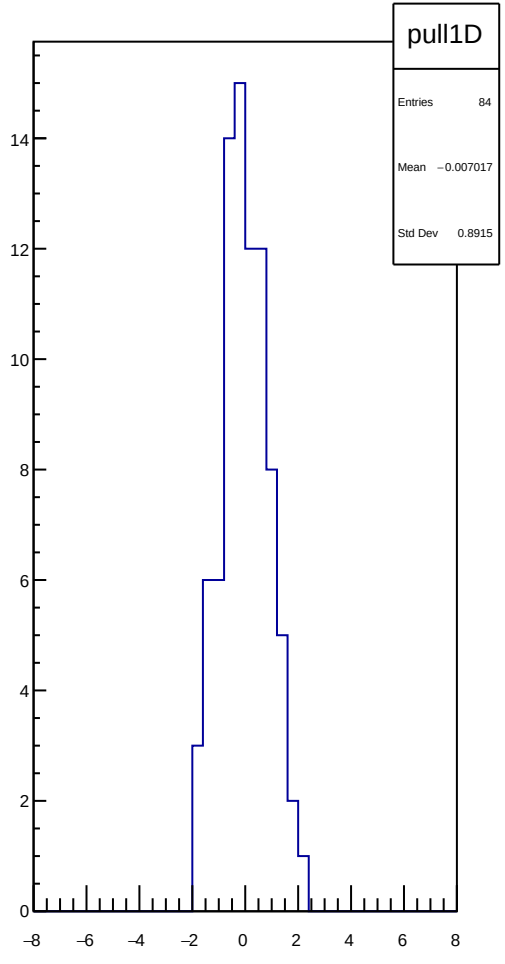

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.935e+04 / 83
p0 87.86 ± 0.06918
160
150
140
130
120
110
100
90
80
70

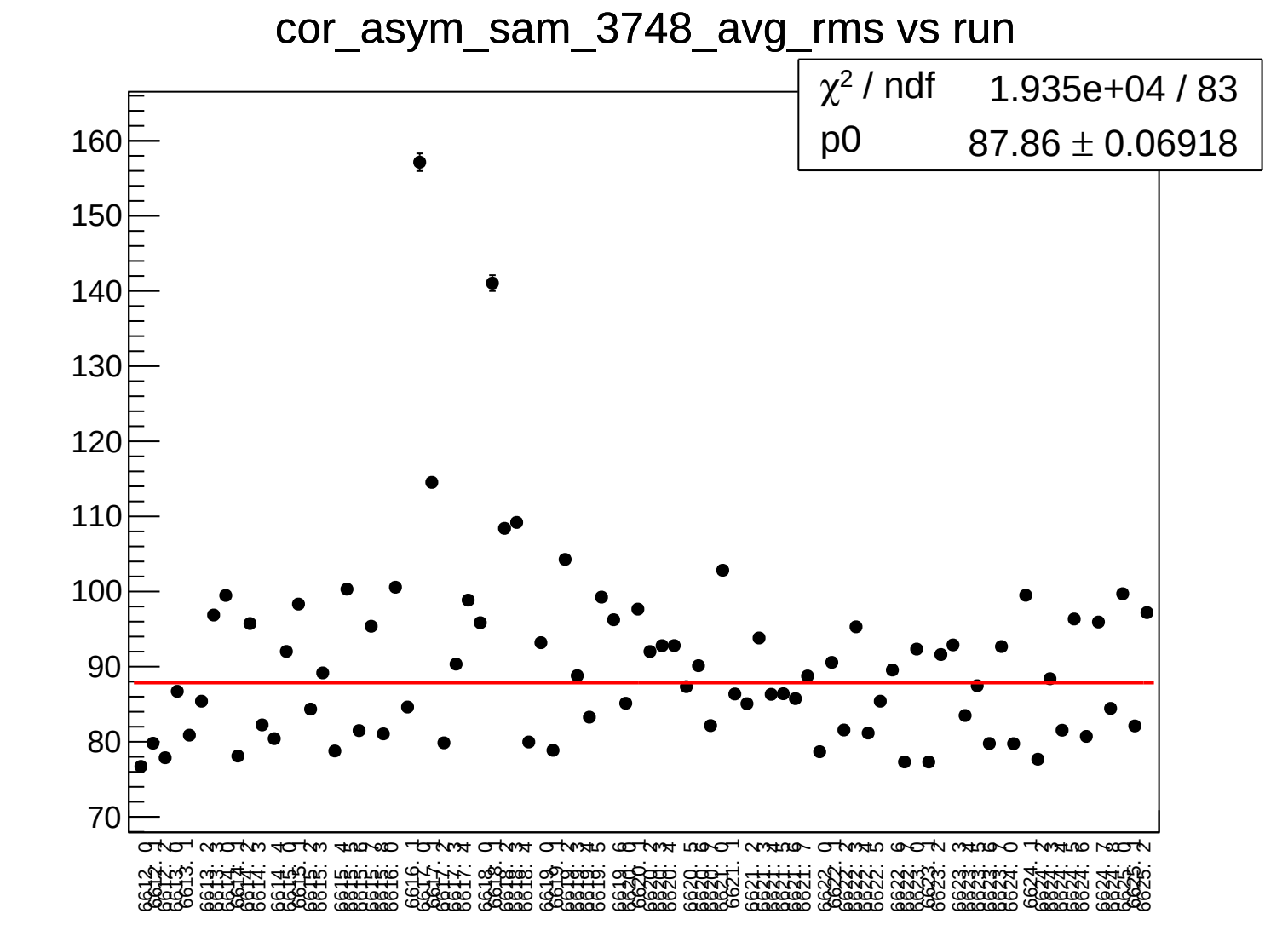

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 77.05 / 83
p0 −2160 ± 899
pull
Entries 84
Mean 236.3
Std Dev 0

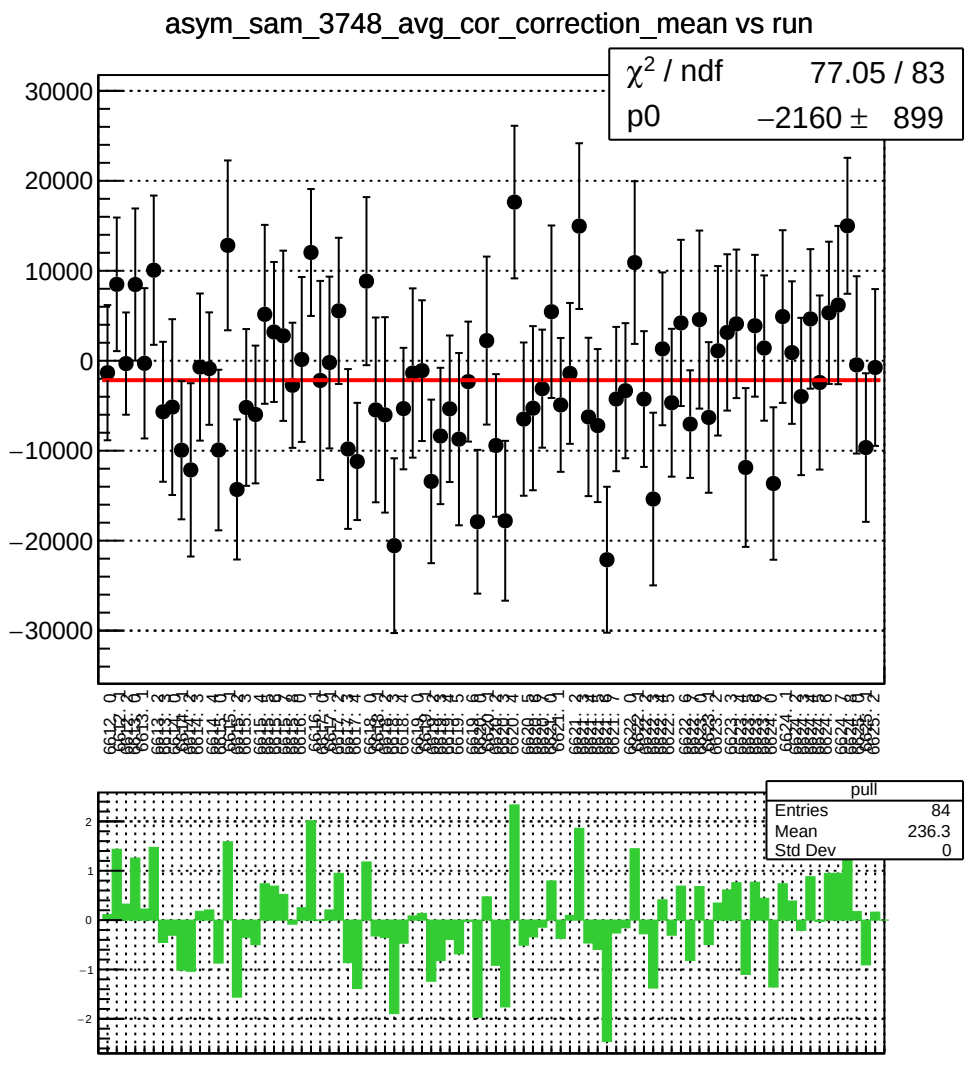

pull1D
Entries 84
Mean 0.004182
Std Dev 0.9577

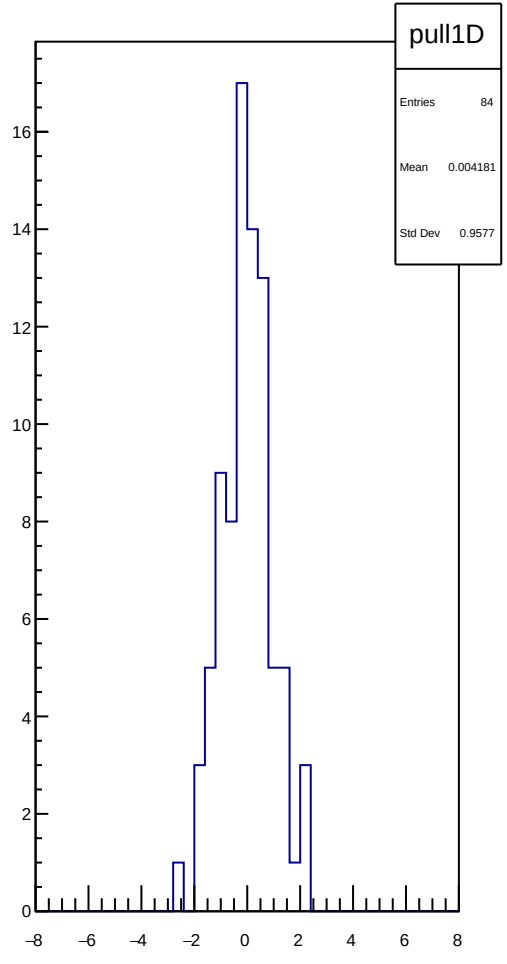

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1.304e+04 / 83
p0 809 ± 0.6357
1050
1000
950
900
850
800
750
700

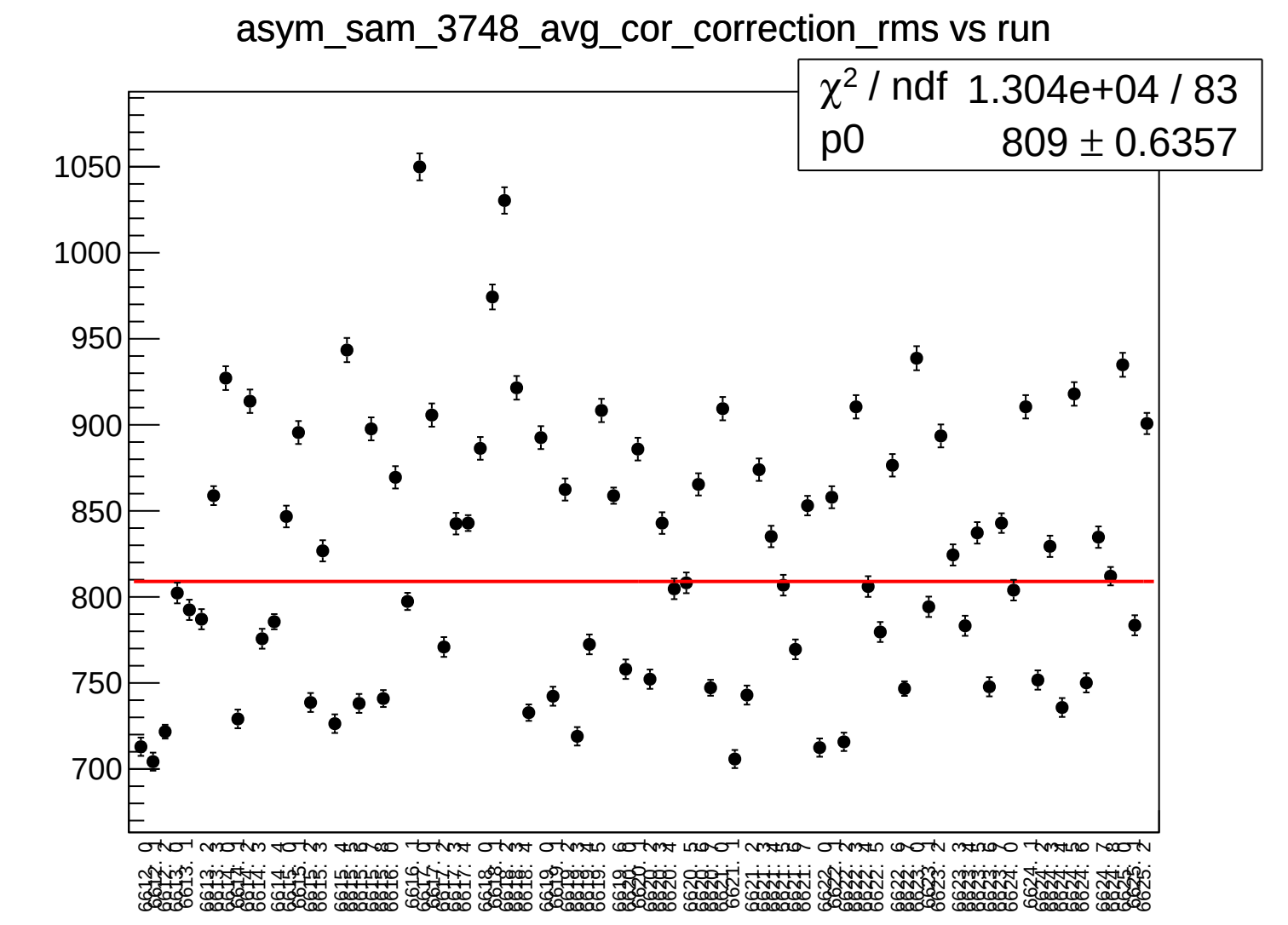

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 66.77 / 83
p0 144.8 ± 97.83
pull
Entries 84
Mean −7.458
Std Dev 52.57

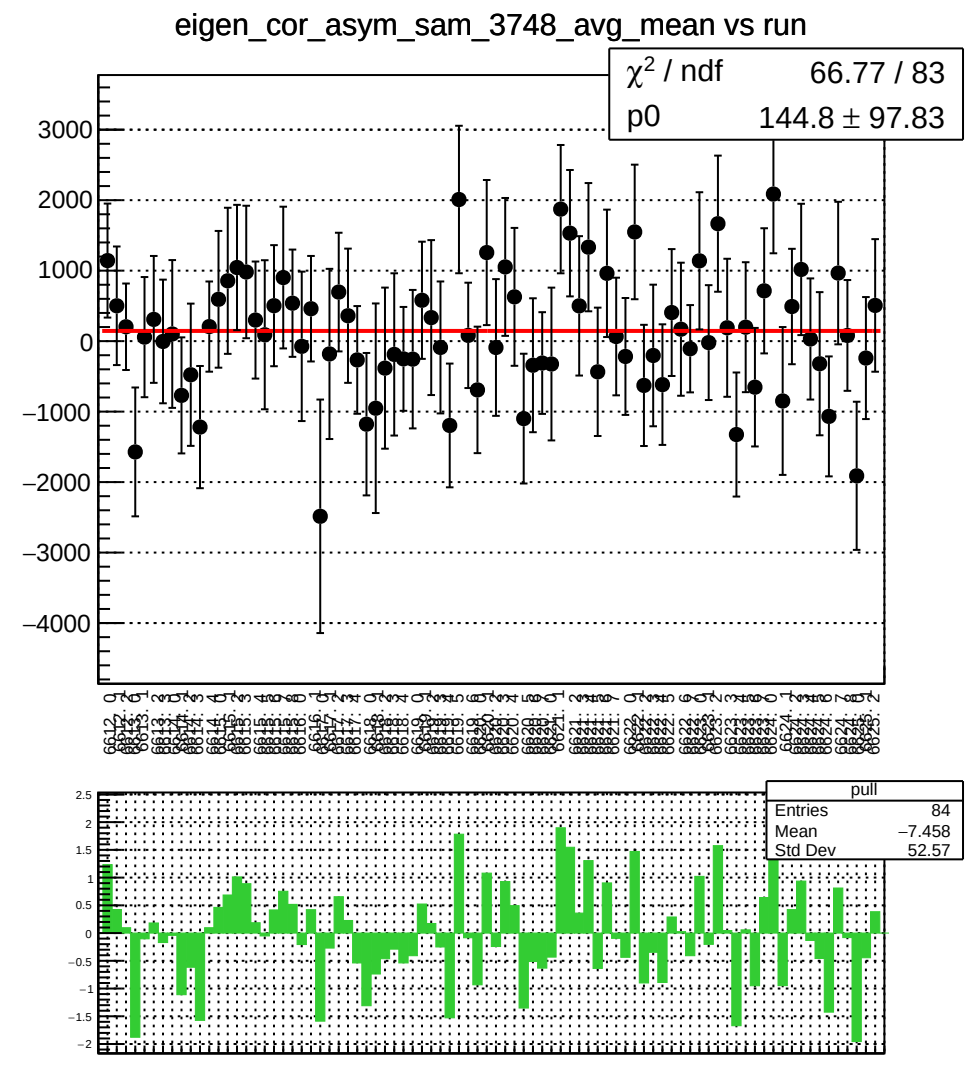

pull1D
Entries 84
Mean −0.007017
Std Dev 0.8915

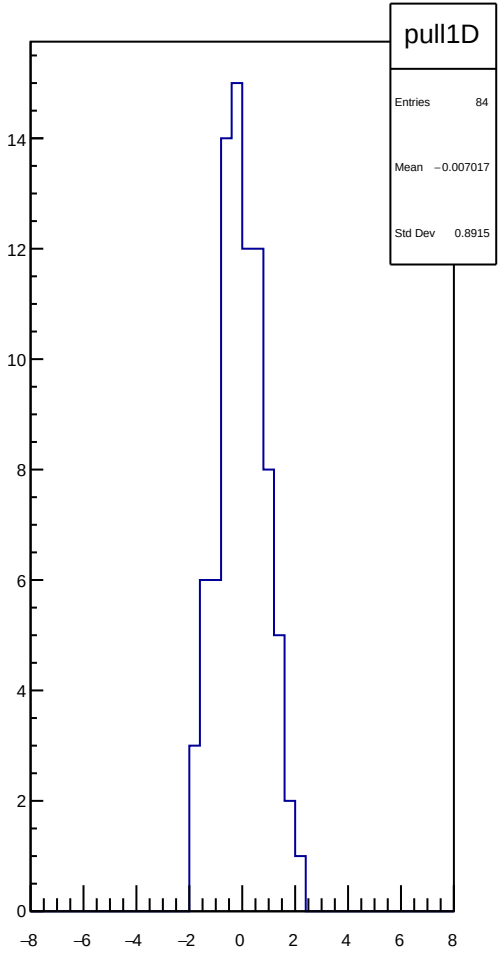

cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.935e+04 / 83
p0 87.86 ± 0.06918
160
150
140
130
120
110
100
90
80
70

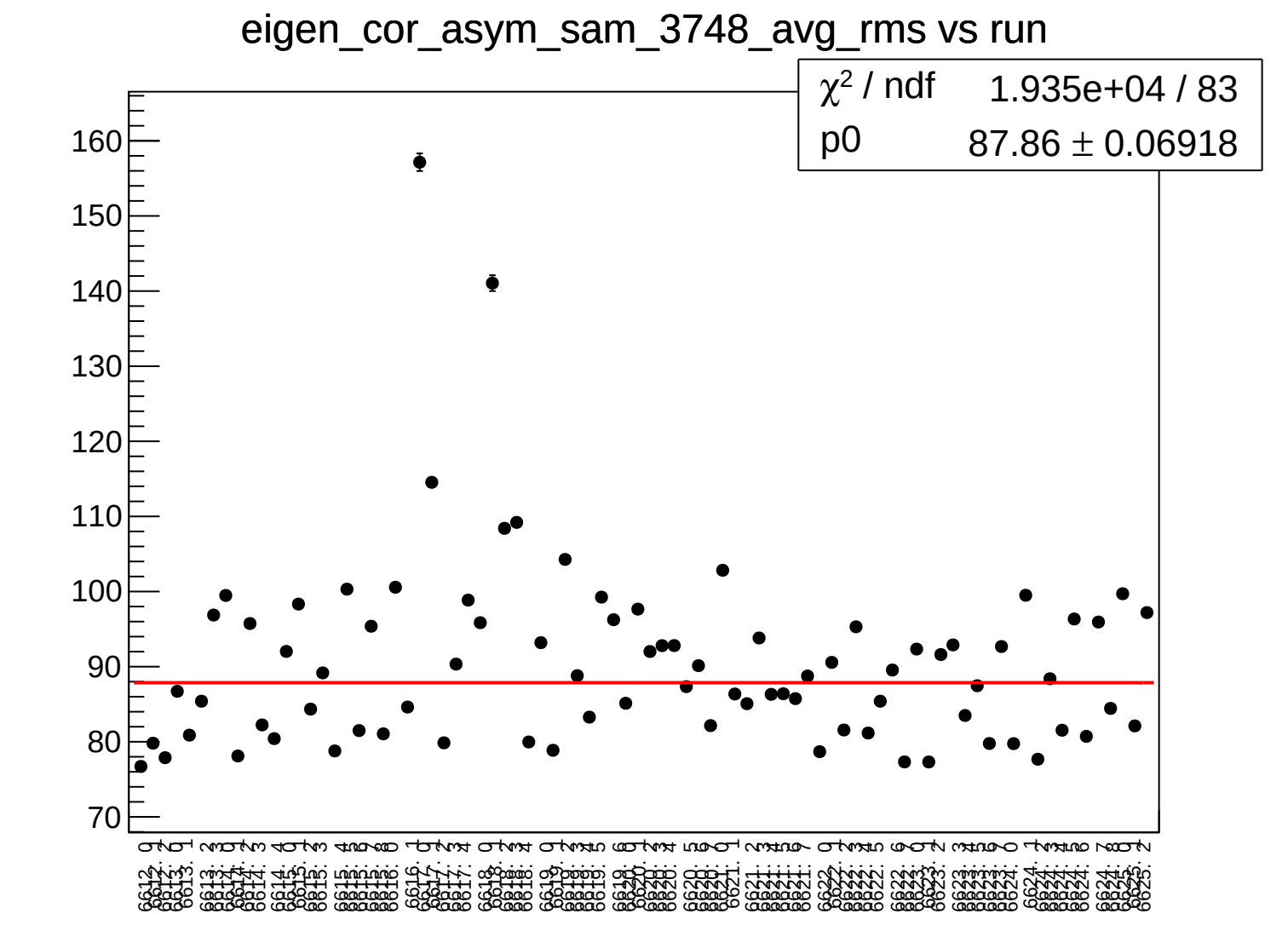

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 77.05 / 83
p0 −2160 ± 899
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 236.3
Std Dev 0
2
1
0
−1
−2

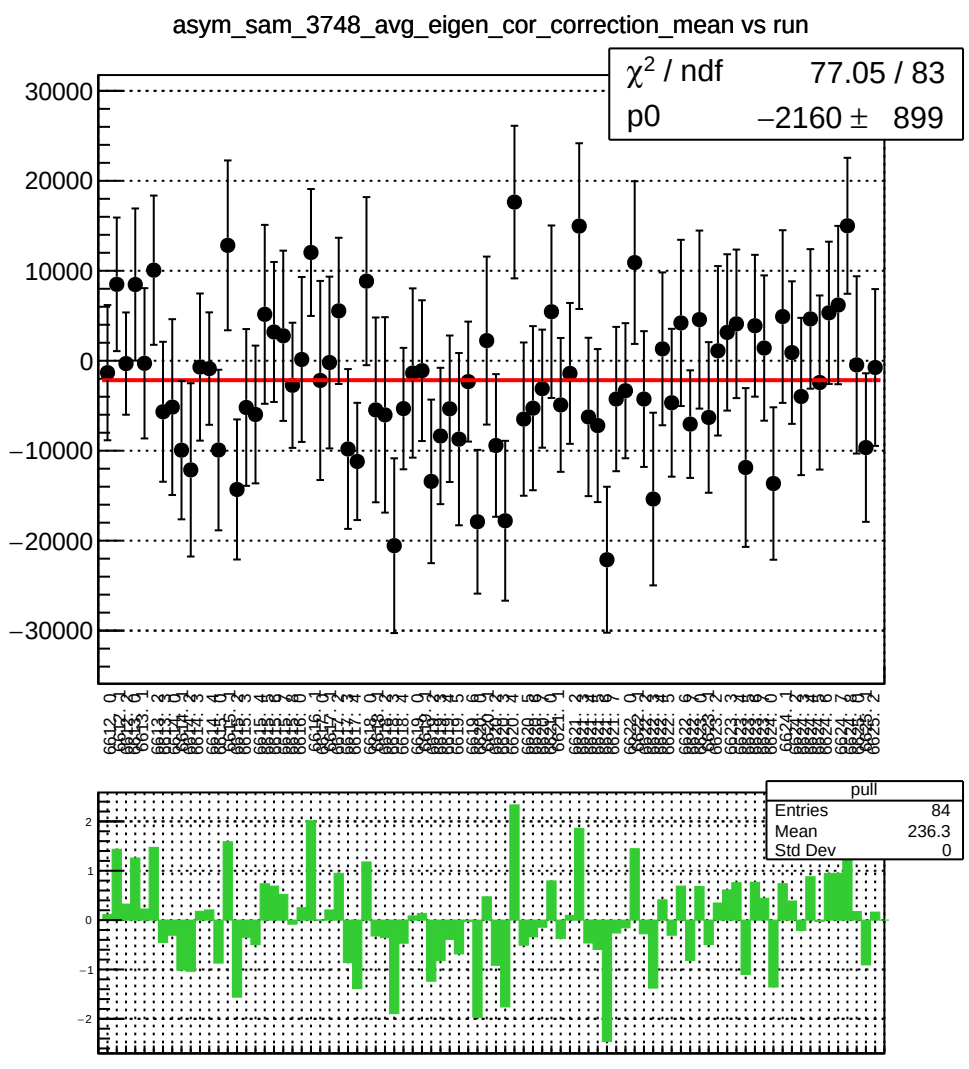

pull1D
Entries 84
Mean 0.004181
Std Dev 0.9577
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

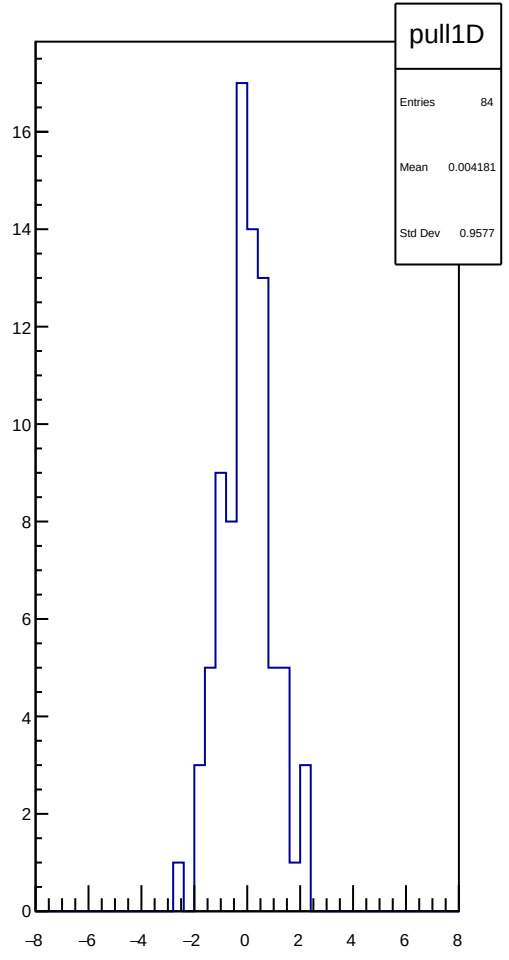

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1.304e+04 / 83
p0 809 ± 0.6357
1050
1000
950
900
850
800
750
700

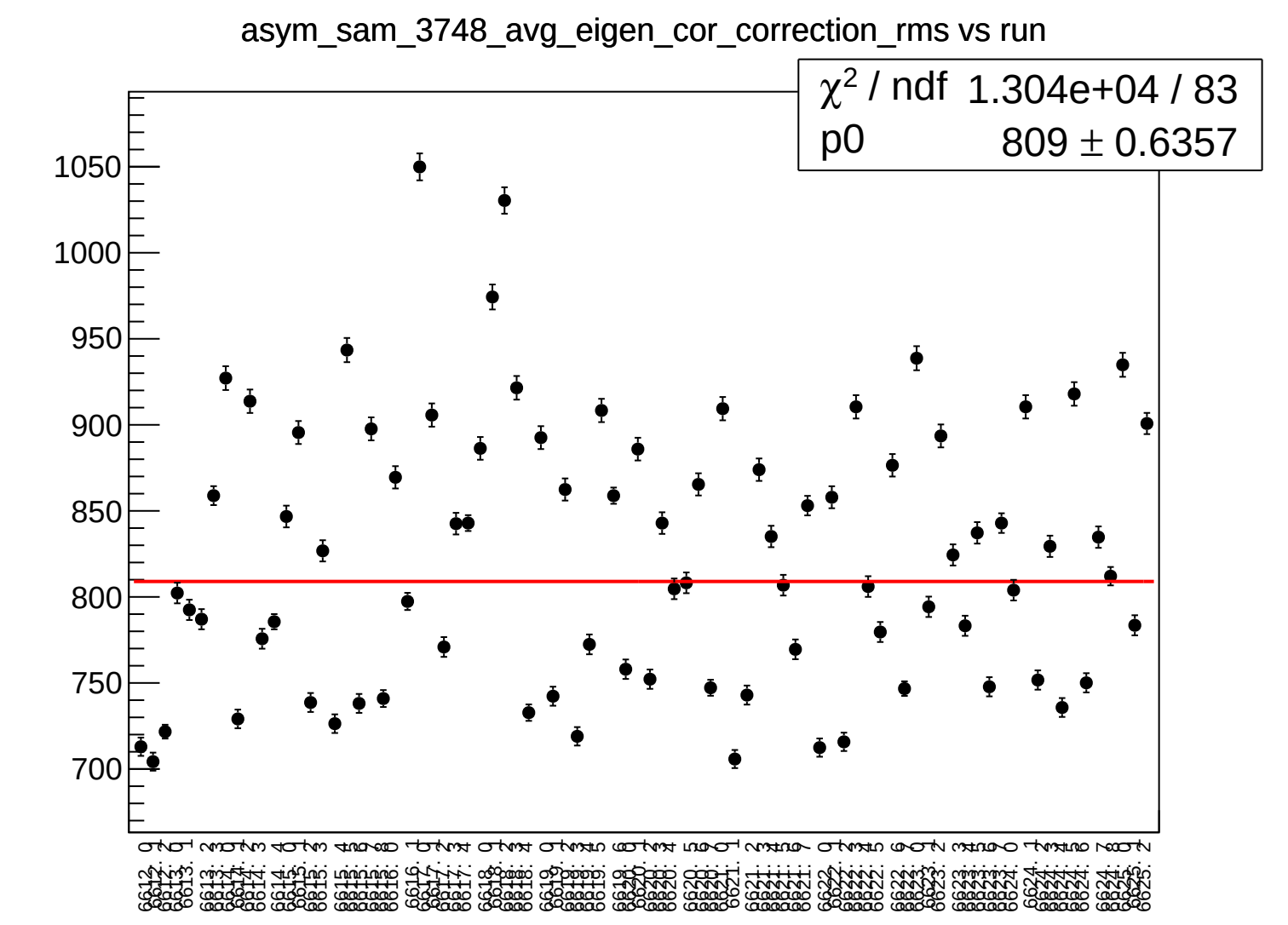

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 66.77 / 83
p0 144.8 ± 97.83
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 84
Mean −7.458
Std Dev 52.57
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

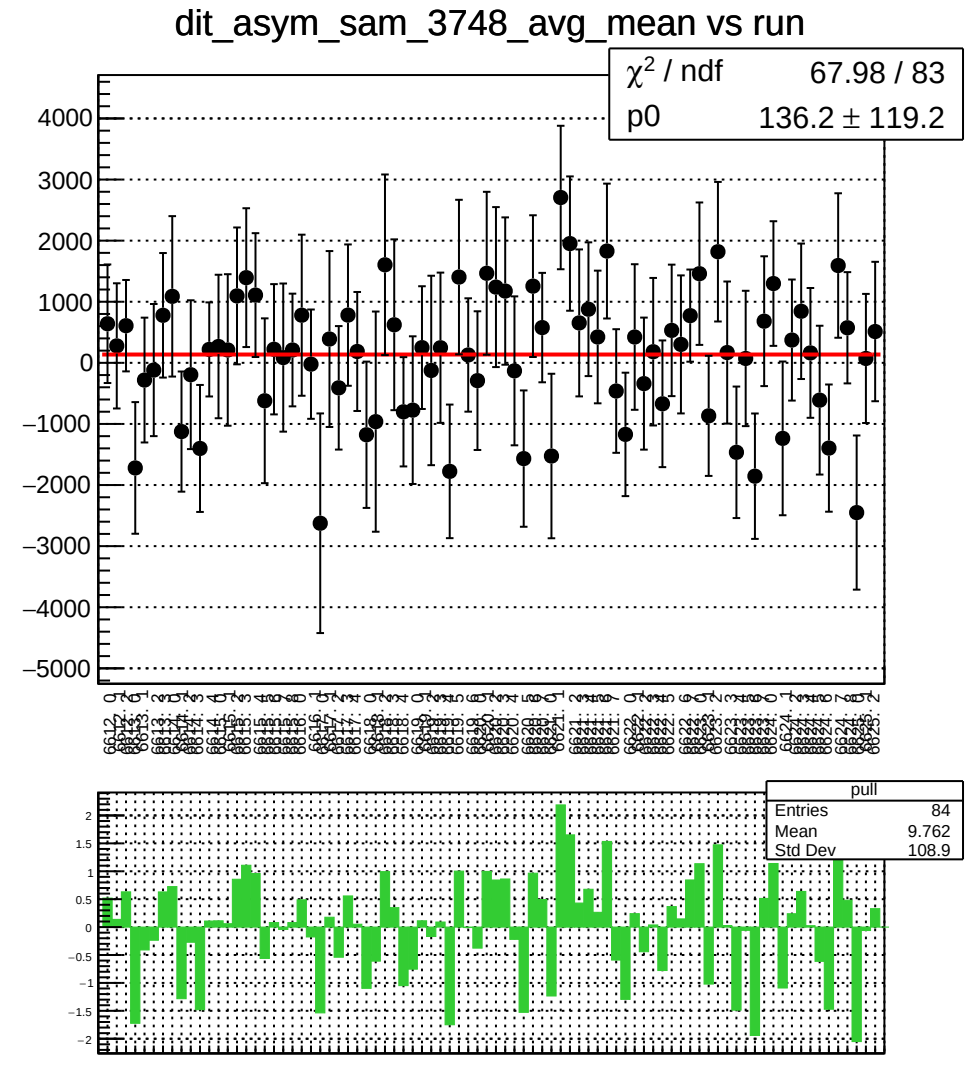

pull1D
Entries 84
Mean −0.007017
Std Dev 0.8915
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

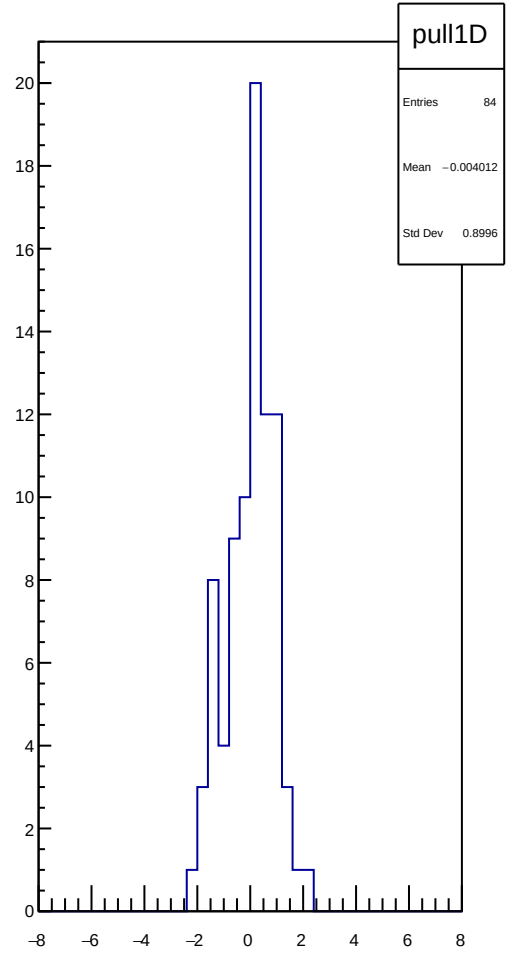

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.935e+04 / 83
p0 87.86 ± 0.06918
160
150
140
130
120
110
100
90
80
70

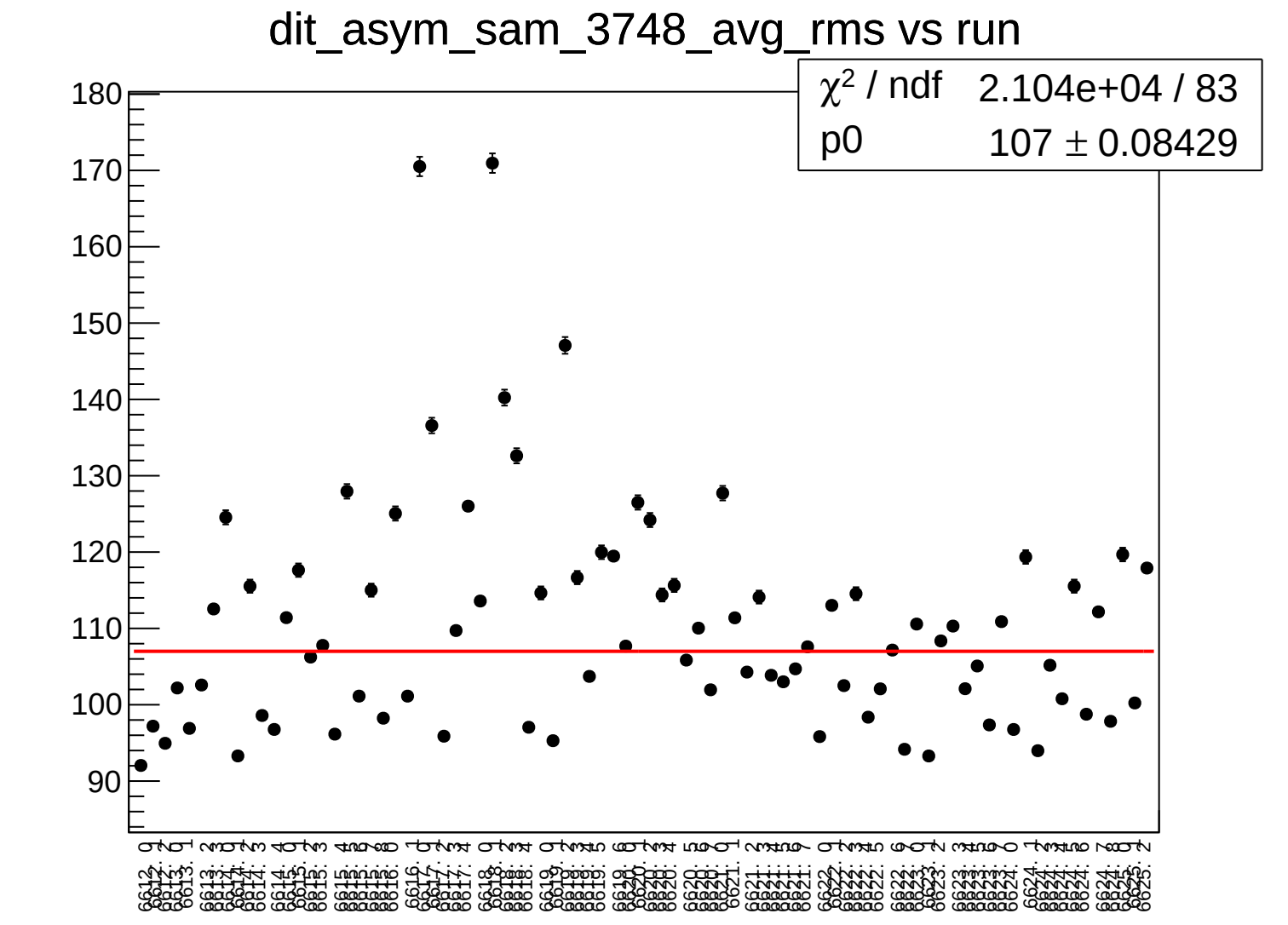

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 77.05 / 83
p0 −2160 ± 899
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 236.3
Std Dev 0
2
1
0
−1
−2

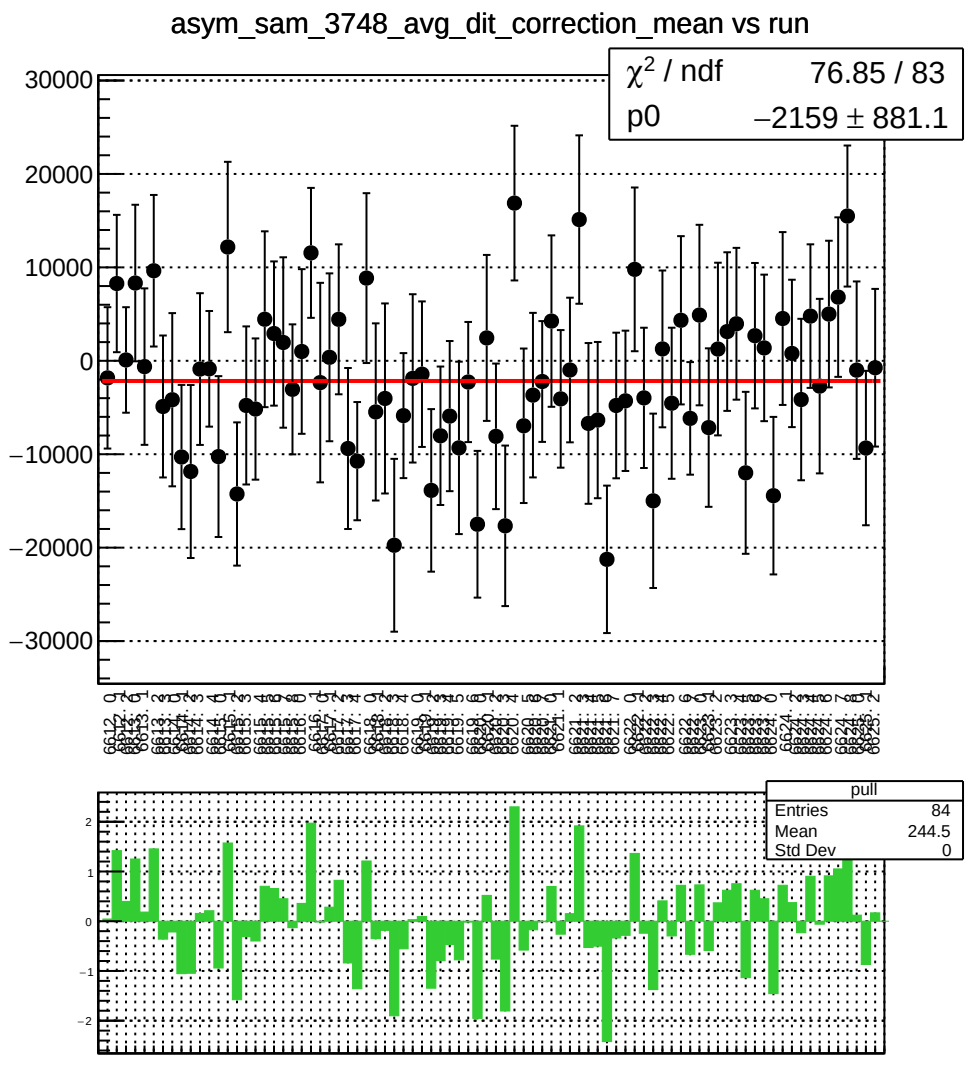

pull1D
Entries 84
Mean 0.004181
Std Dev 0.9577
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

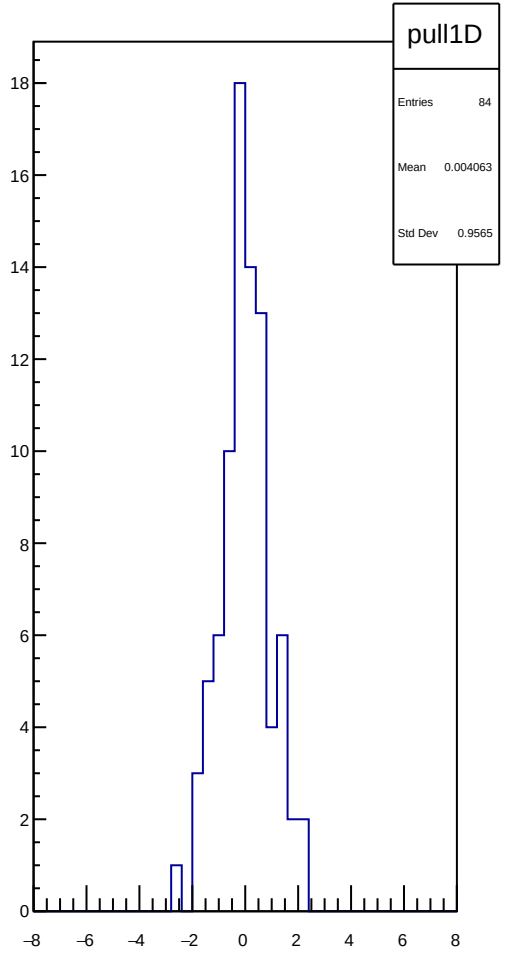

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 1.304e+04 / 83
p0 809 ± 0.6357
1050
1000
950
900
850
800
750
700

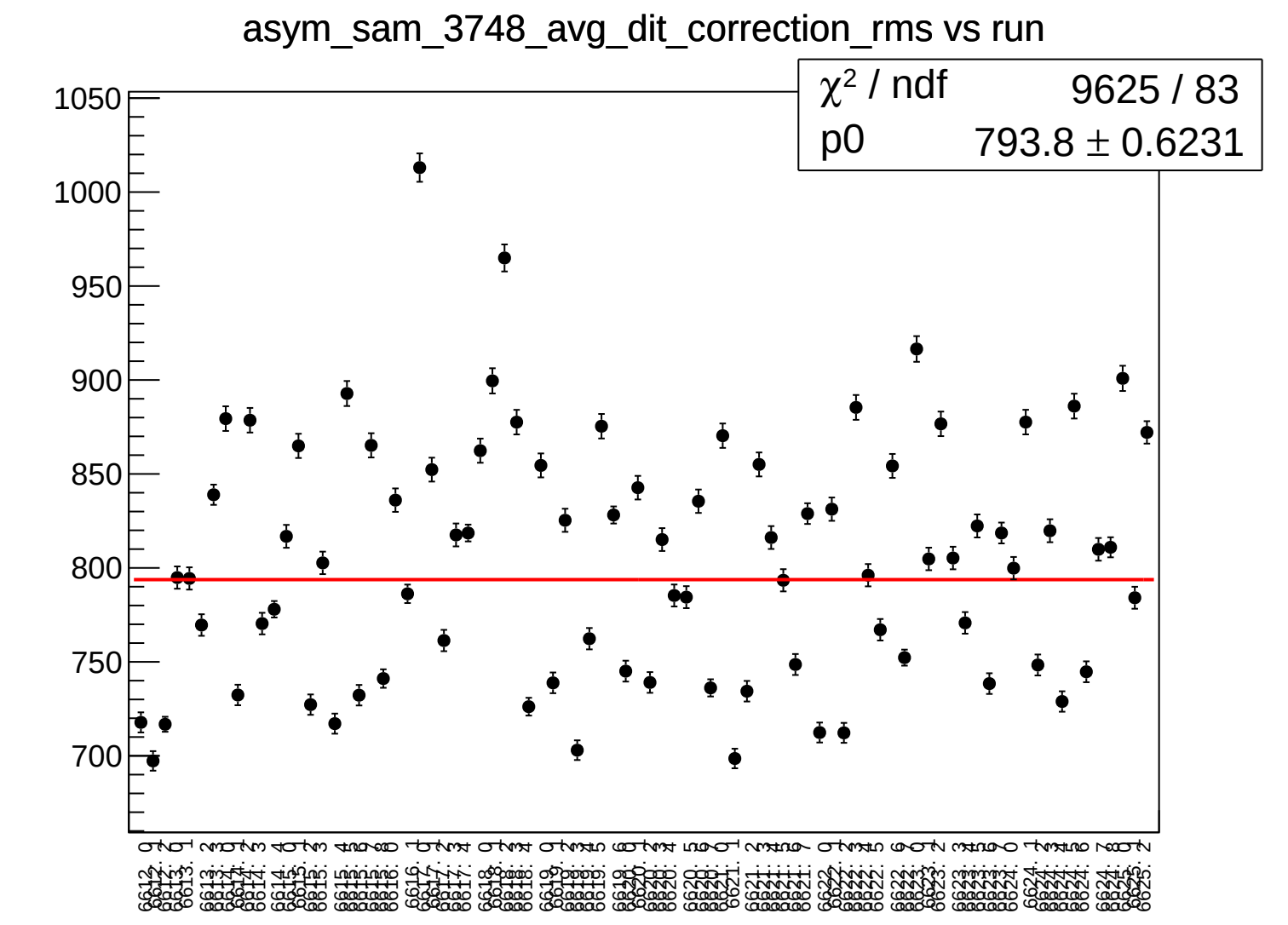

dit_asym_sam_3748_avg_mean vs run
χ^2 / ndf 67.98 / 83
p0 136.2 ± 119.2
pull
Entries 84
Mean 9.762
Std Dev 108.9

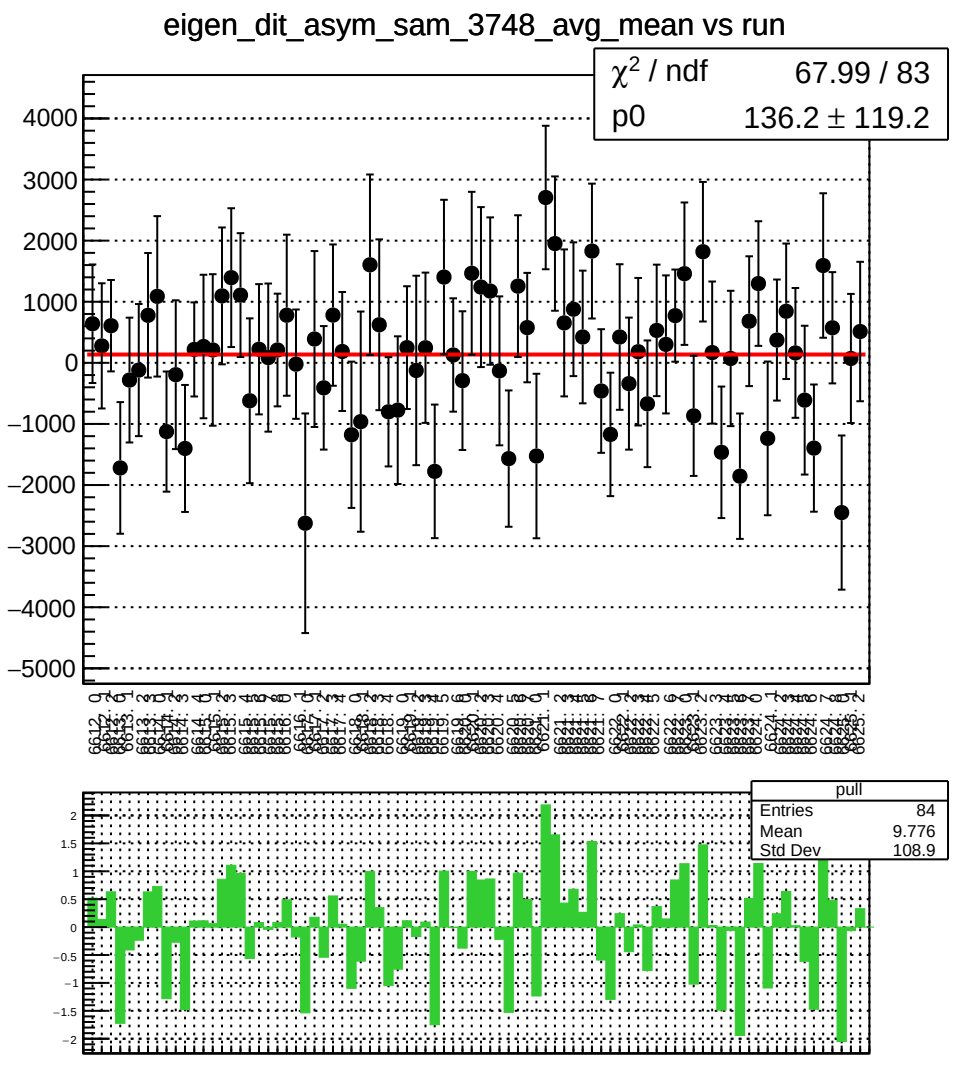

pull1D
Entries 84
Mean −0.004012
Std Dev 0.8996

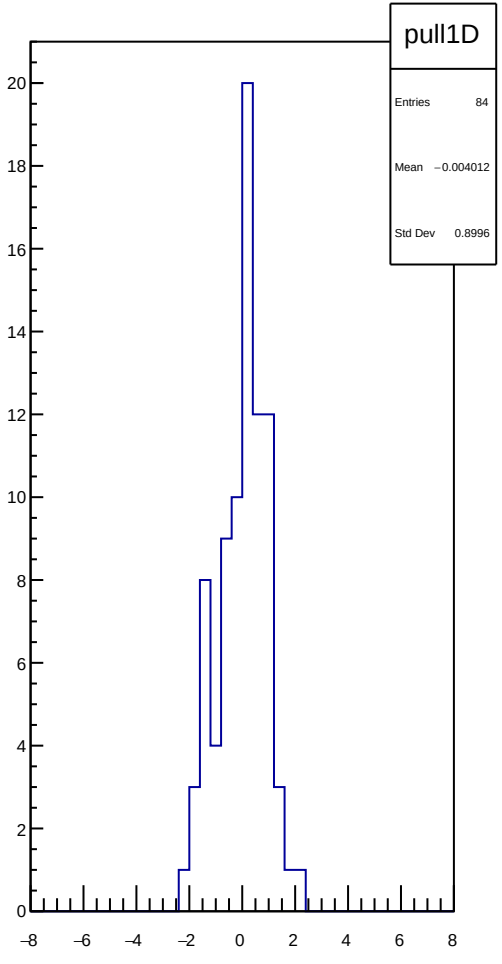

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 2.104e+04 / 83
p0 107 ± 0.08429
180
170
160
150
140
130
120
110
100
90

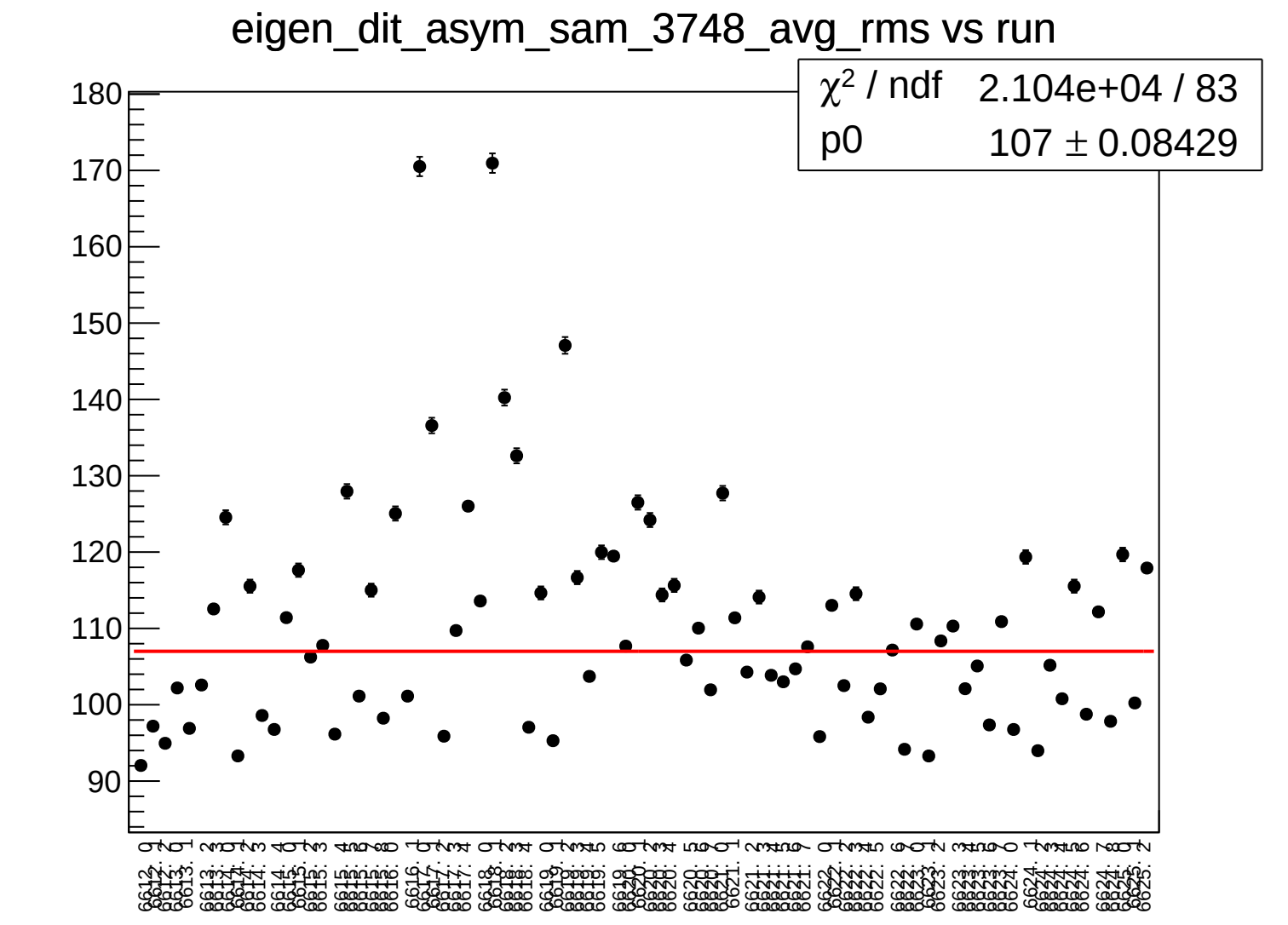

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 76.85 / 83
p0 −2159 ± 881.1
pull
Entries 84
Mean 244.5
Std Dev 0

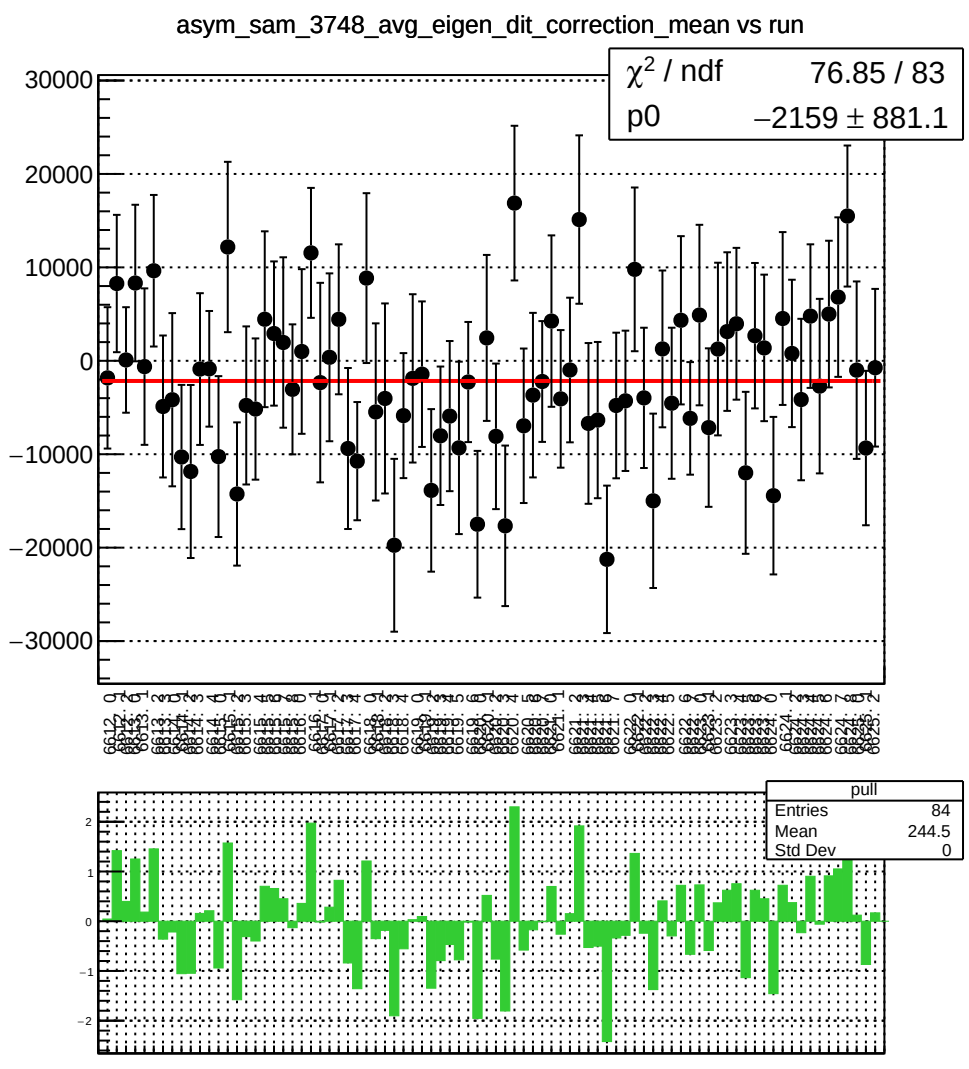

pull1D
Entries 84
Mean 0.004063
Std Dev 0.9565

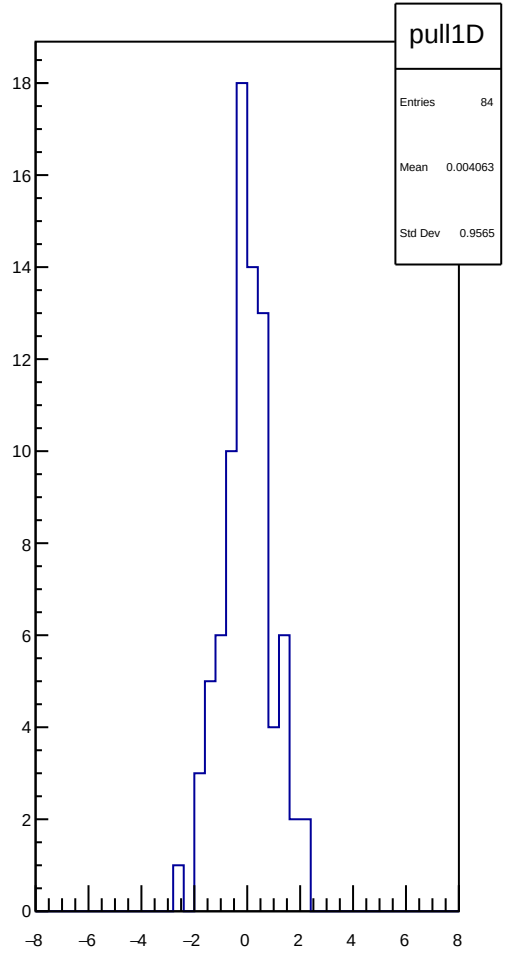

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 9625 / 83
p0 793.8 ± 0.6231
1050
1000
950
900
850
800
750
700

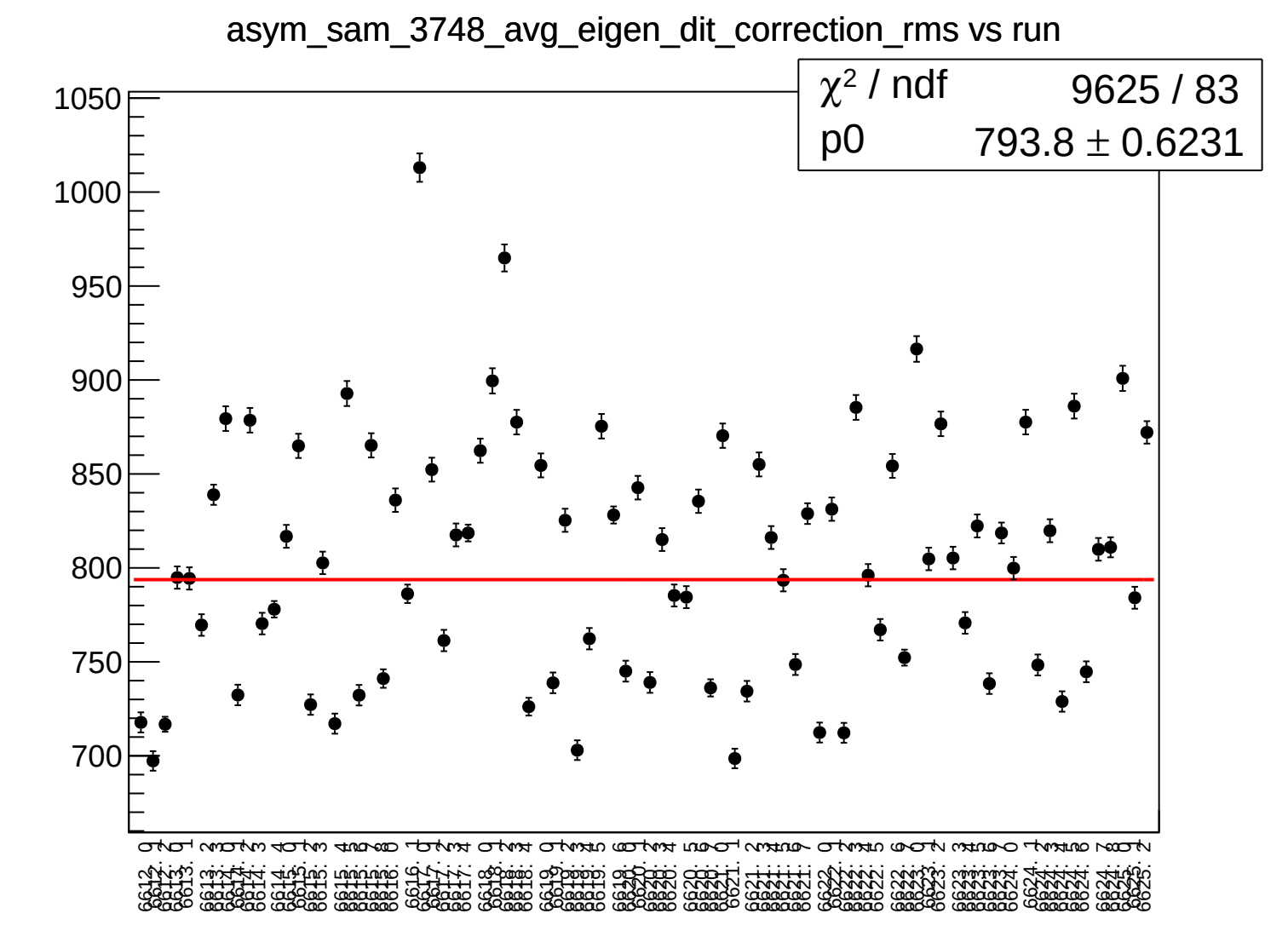

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 67.99 / 83
p0 136.2 ± 119.2
pull
Entries 84
Mean 9.776
Std Dev 108.9

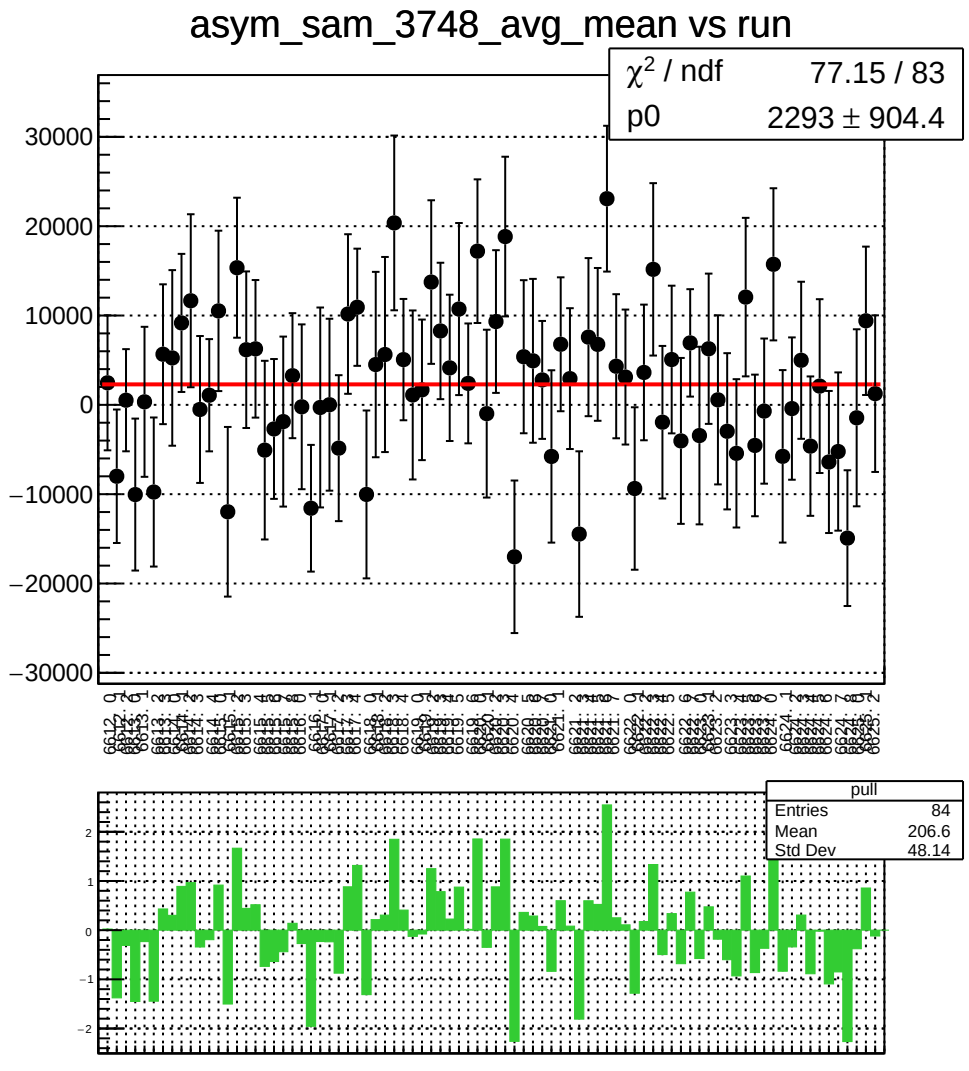

pull1D
Entries 84
Mean −0.004012
Std Dev 0.8996

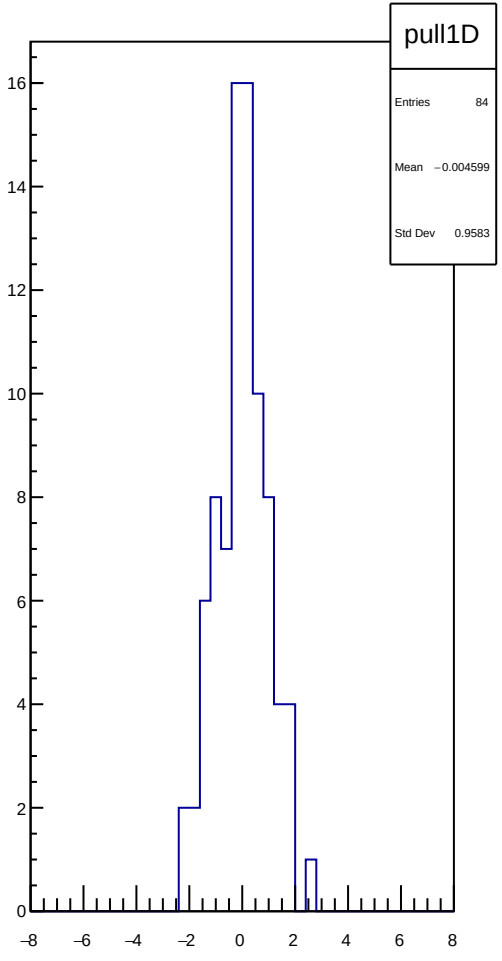

eigen_dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 2.104e+04 / 83
p0 107 ± 0.08429
180
170
160
150
140
130
120
110
100
90

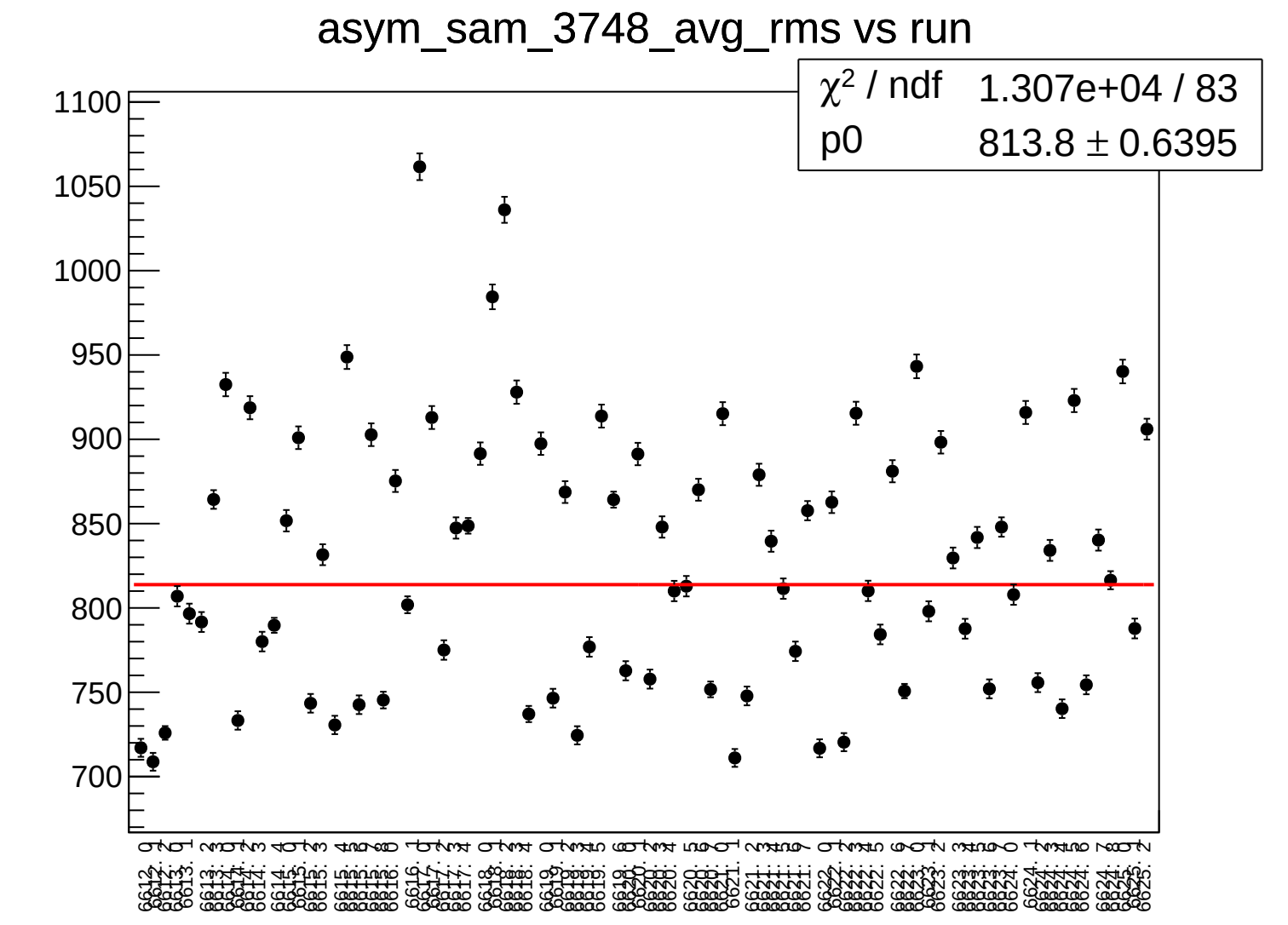

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.85 / 83
p0 −2159 ± 881.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 244.5
Std Dev 0
2
1
0
−1
−2

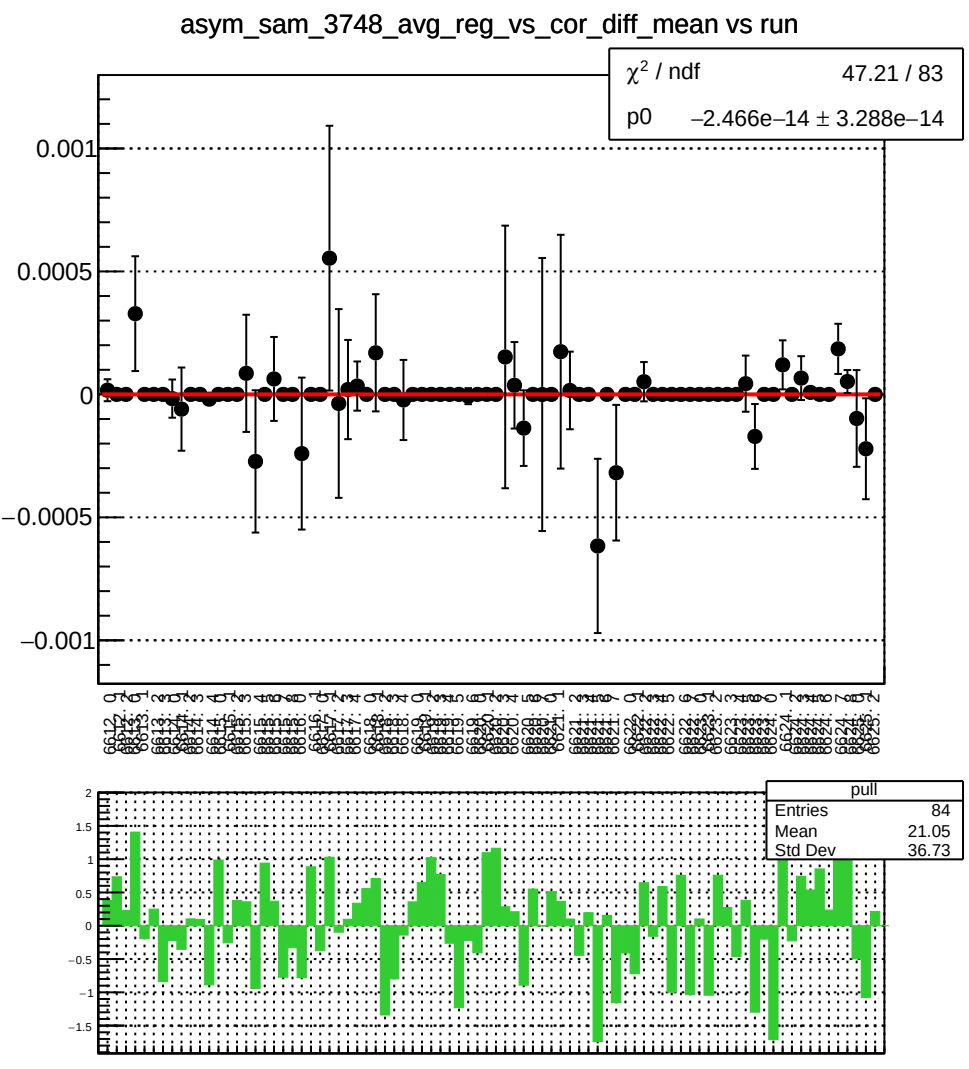

pull1D
Entries 84
Mean 0.004063
Std Dev 0.9565
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

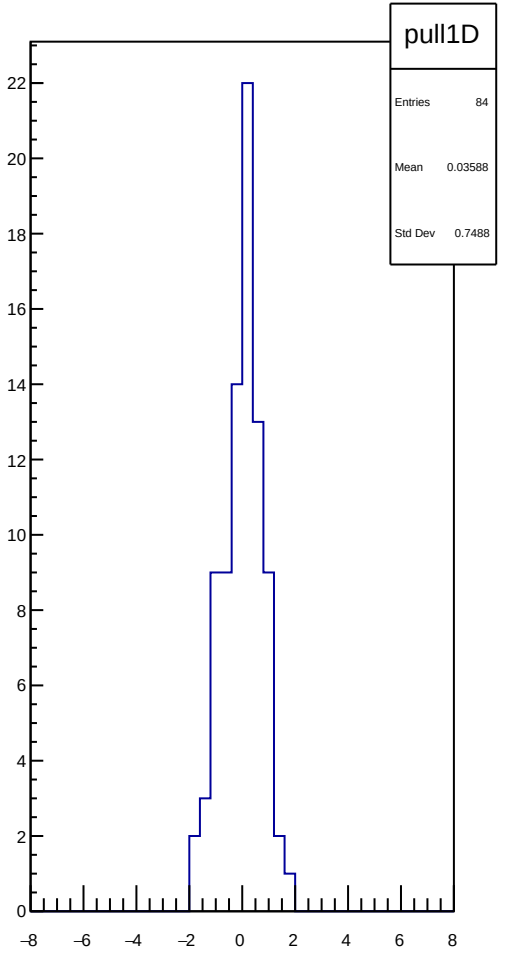

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 9625 / 83
p0 793.8 ± 0.6231
1050
1000
950
900
850
800
750
700

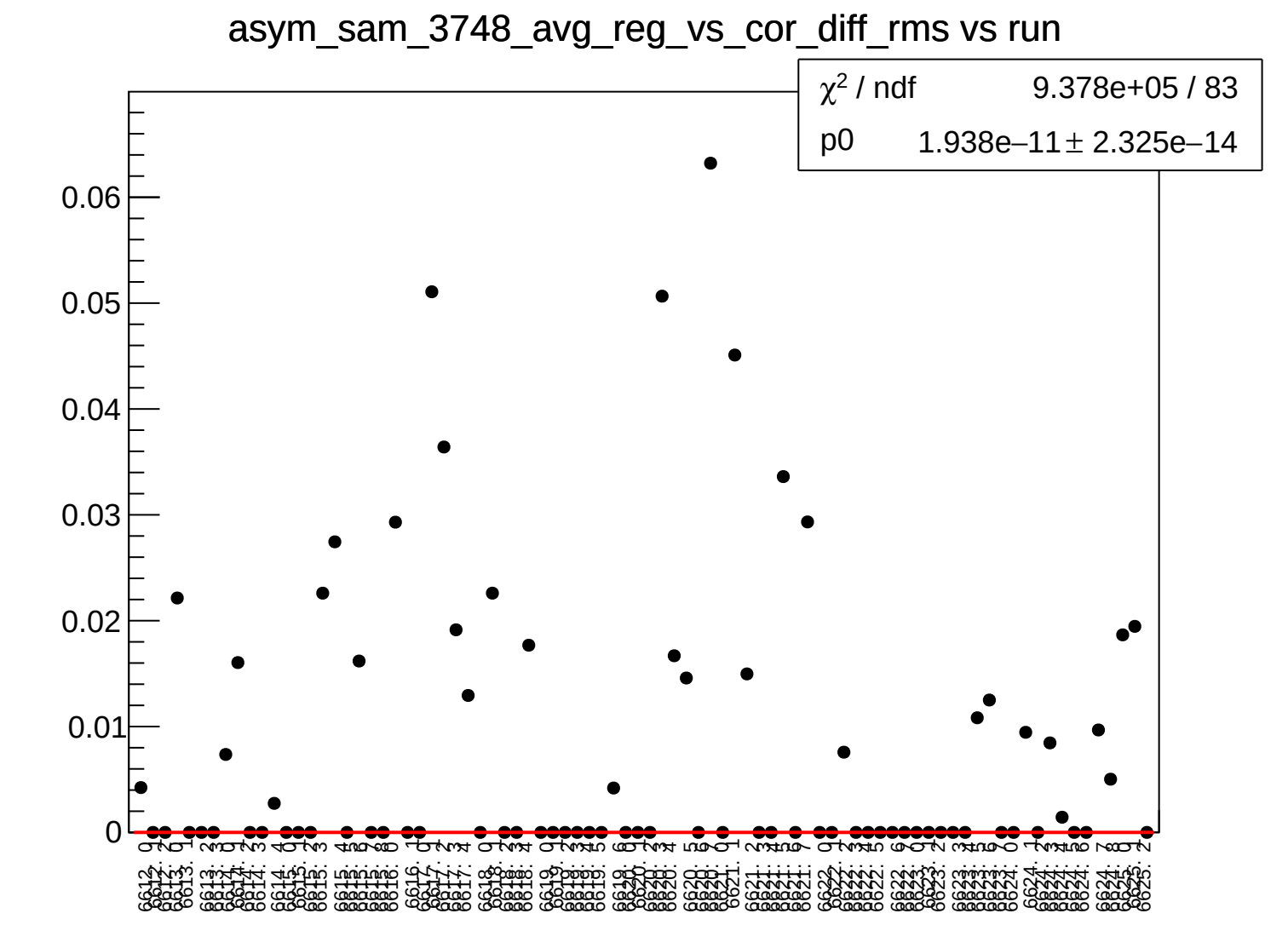

asym_sam_3748_avg_mean vs run
χ² / ndf 77.15 / 83
p0 2293 ± 904.4
pull
Entries 84
Mean 206.6
Std Dev 48.14

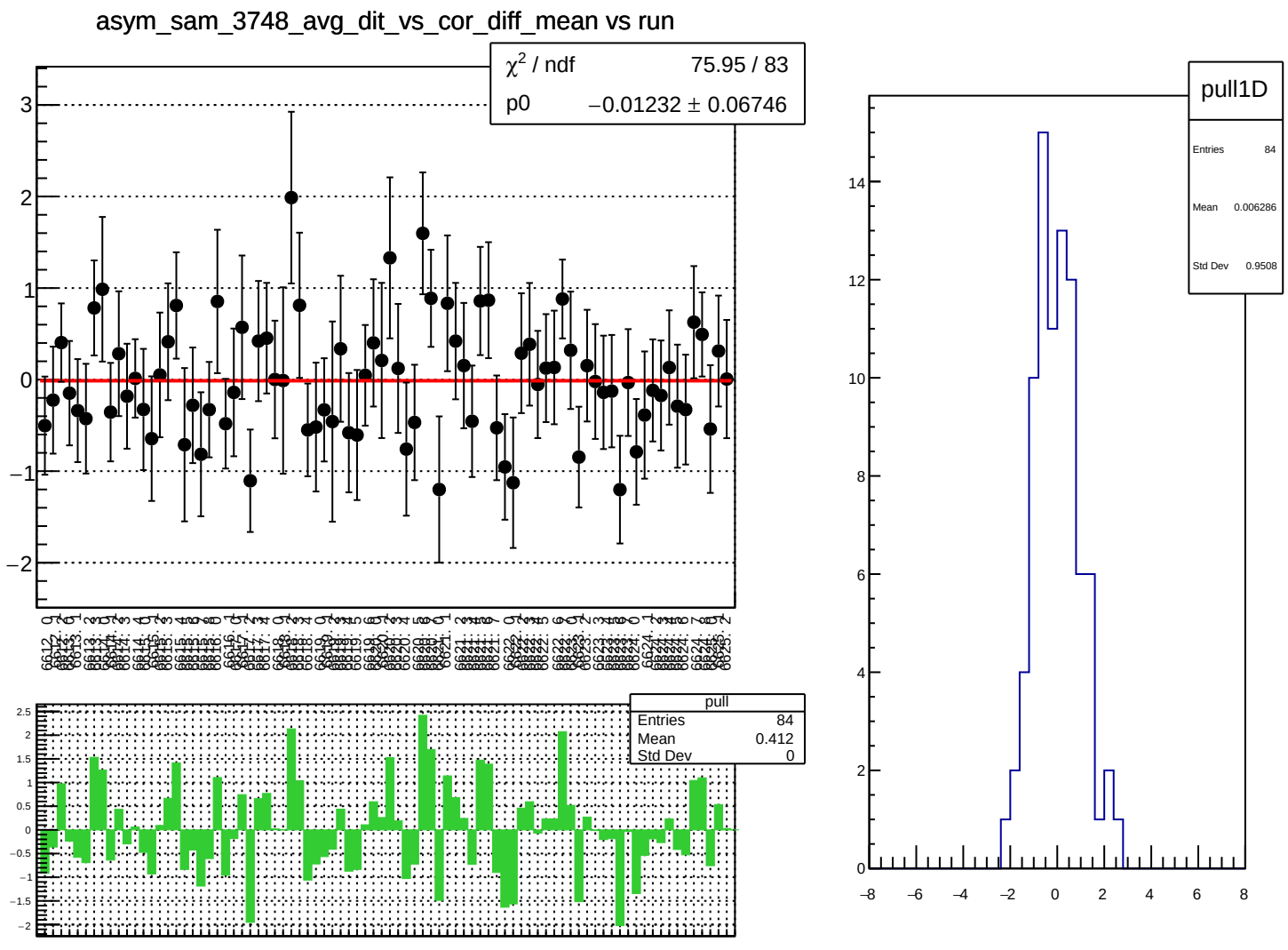

pull1D
Entries 84
Mean −0.004599
Std Dev 0.9583

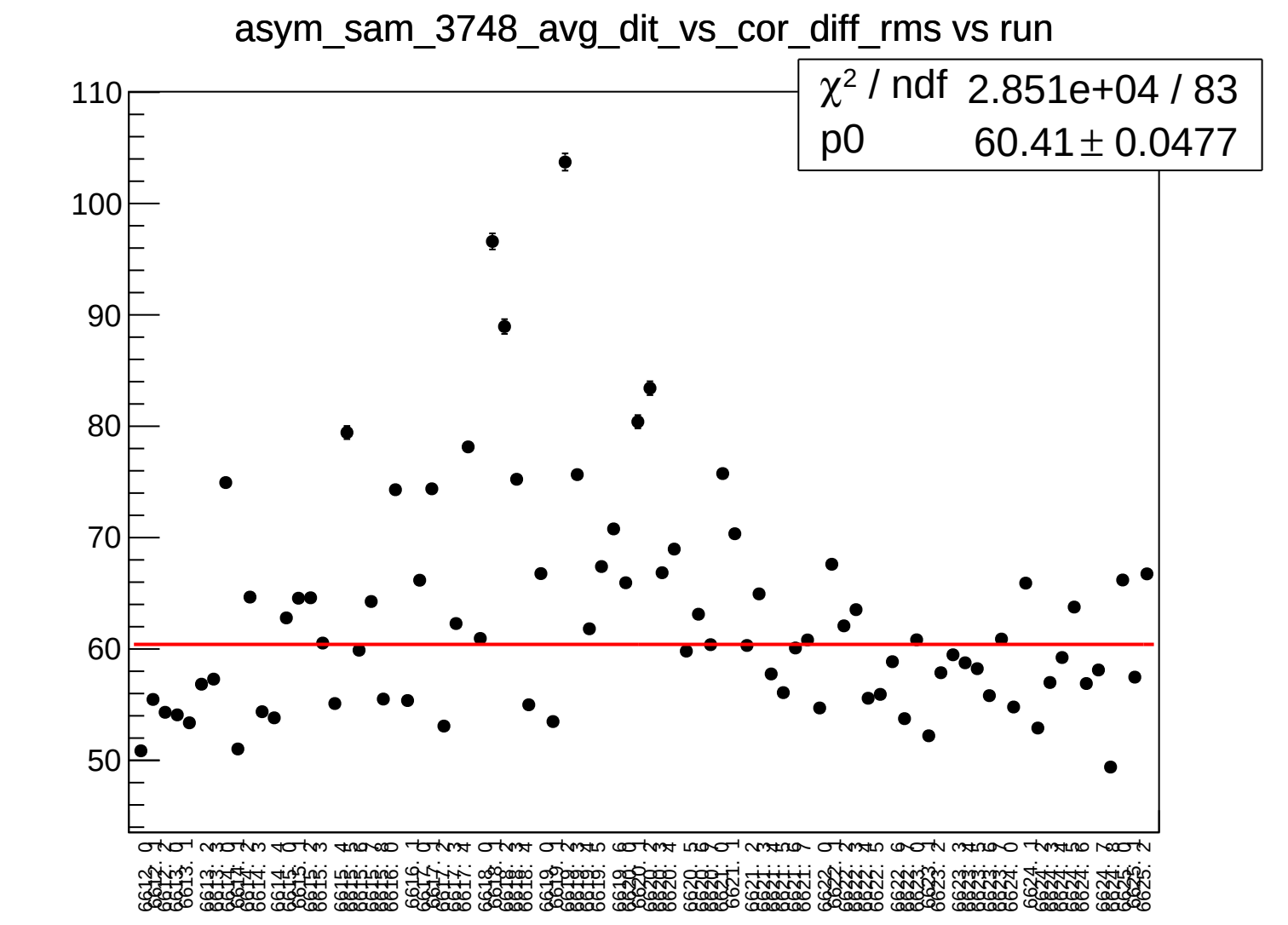

asym_sam_3748_avg_rms vs run
χ² / ndf 1.307e+04 / 83
p0 813.8 ± 0.6395
1100
1050
1000
950
900
850
800
750
700

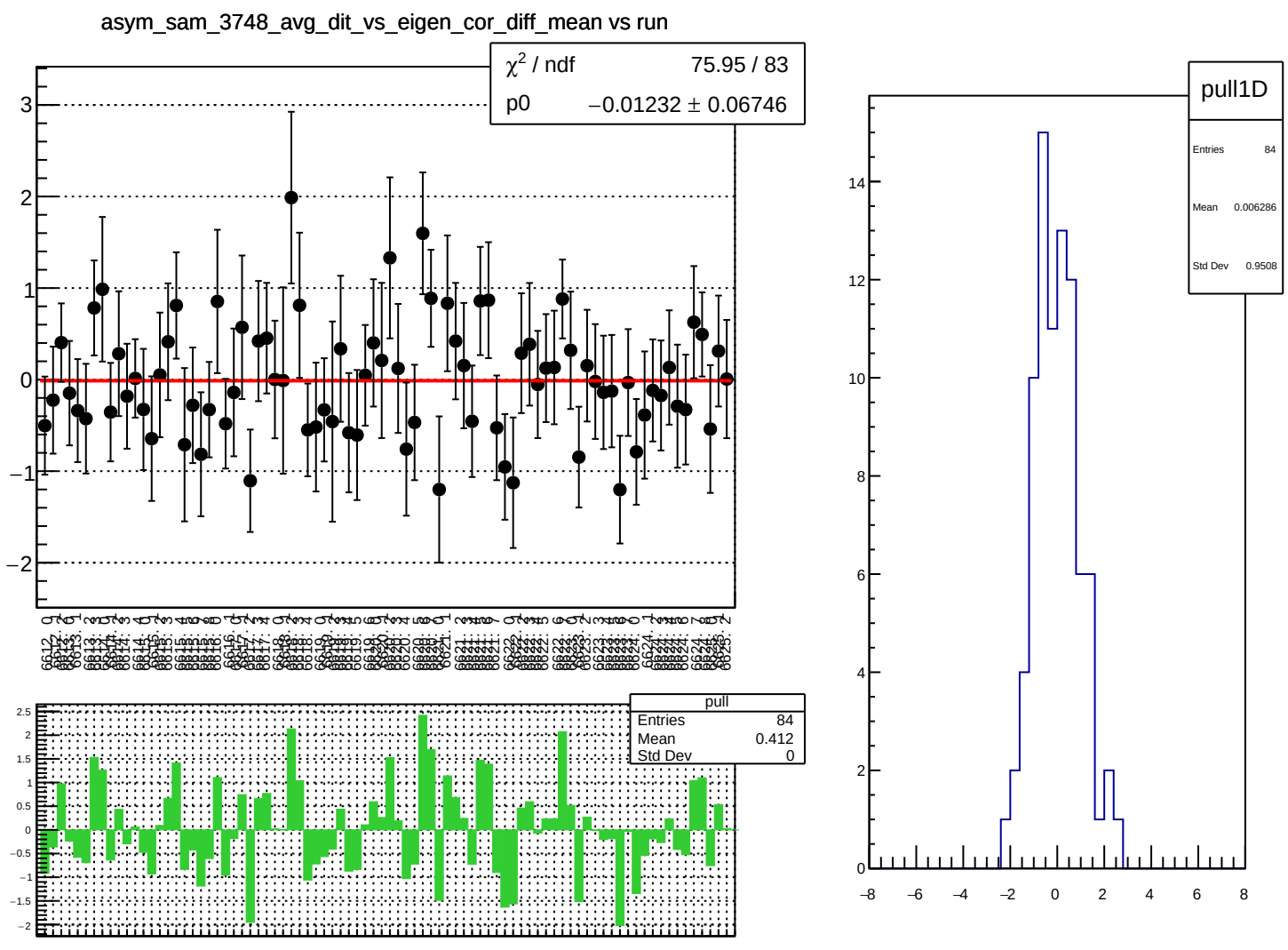

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 47.21 / 83
p0 −2.466e−14 ± 3.288e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 84
Mean 21.05
Std Dev 36.73
2
1.5
1
0.5
0
−0.5
−1
−1.5

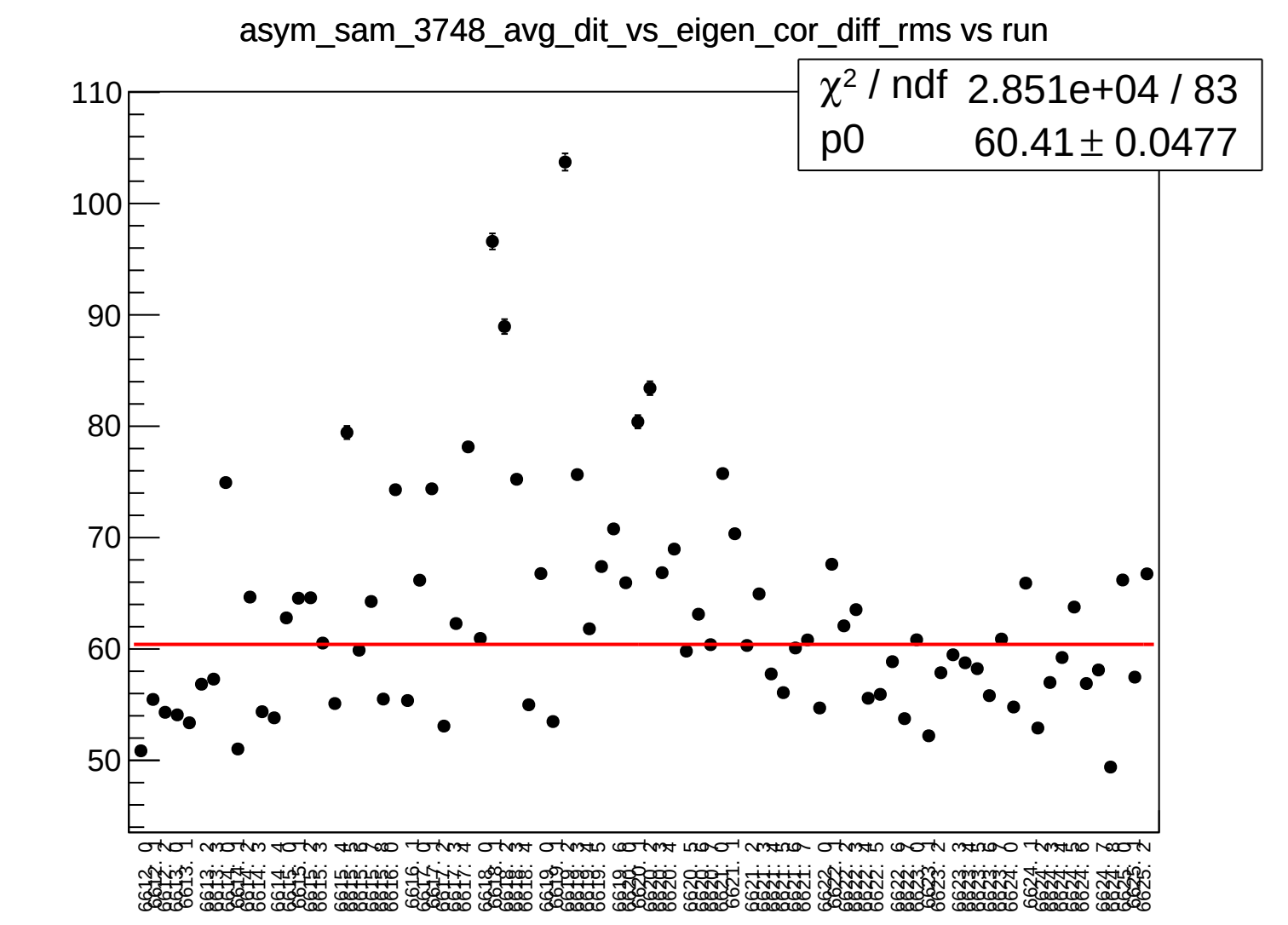

pull1D
Entries 84
Mean 0.03588
Std Dev 0.7488
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

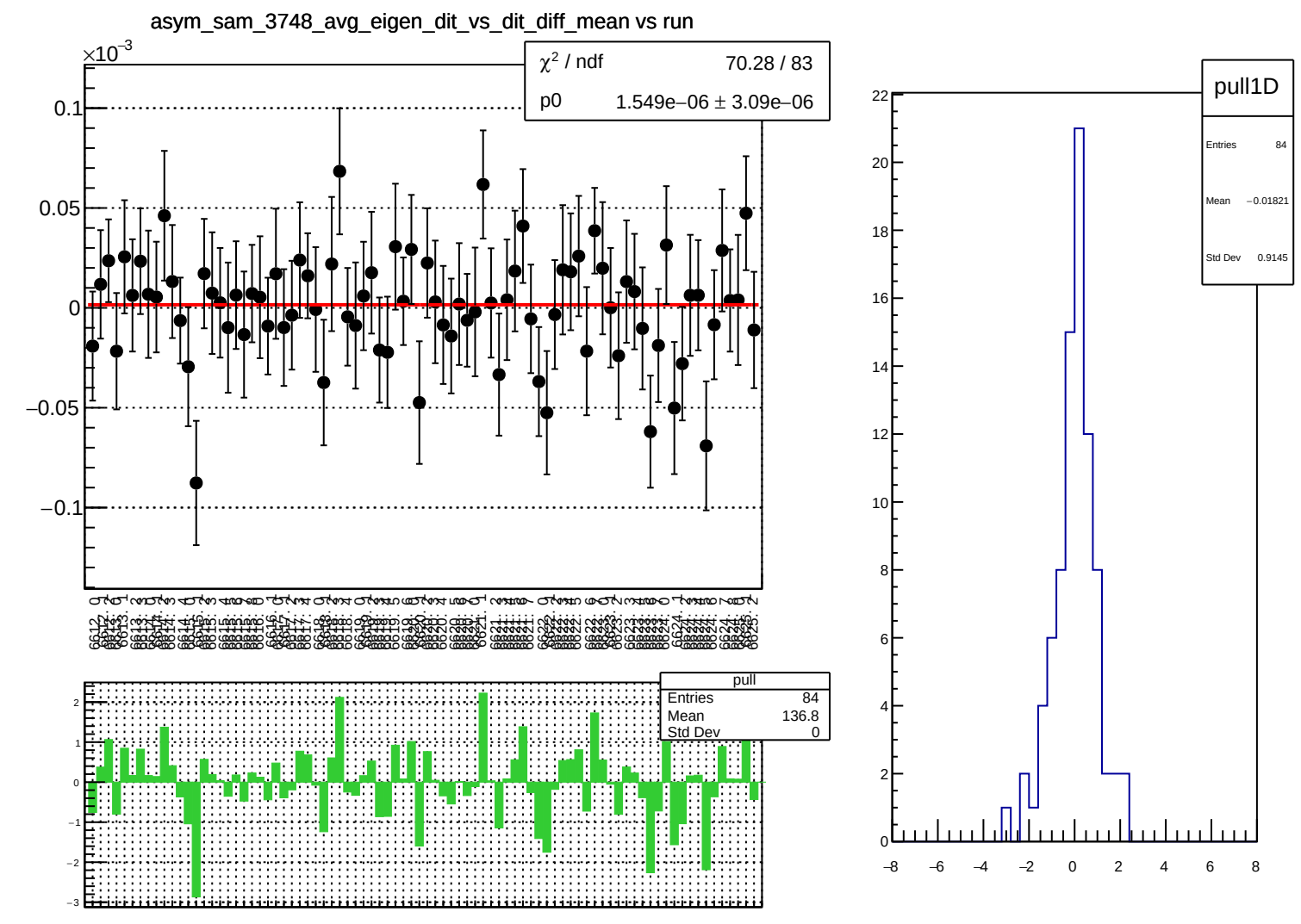

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.378e+05 / 83
p0 1.938e−11 ± 2.325e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

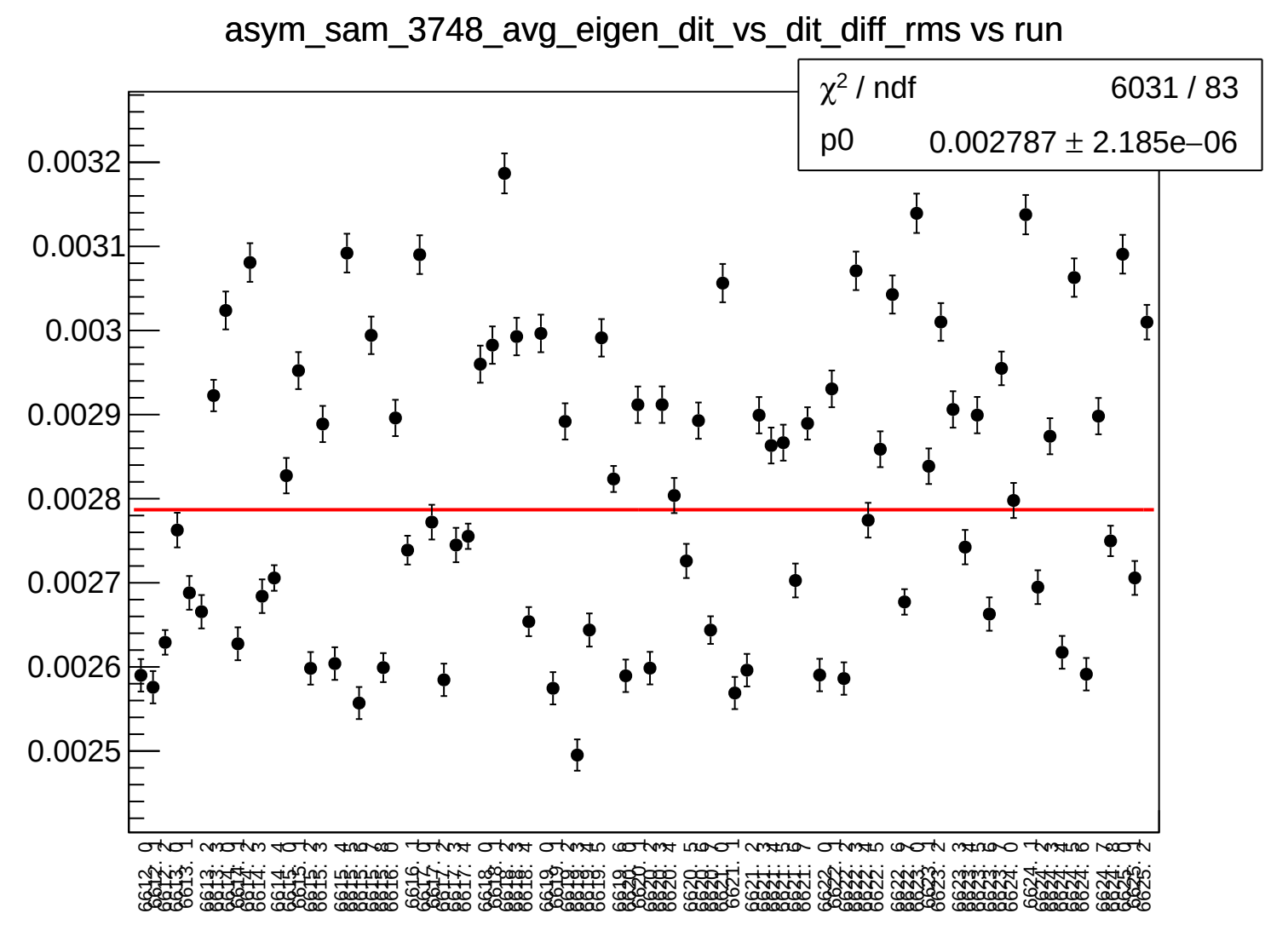

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.95 / 83
p0 −0.01232 ± 0.06746
pull
Entries 84
Mean 0.412
Std Dev 0
pull1D
Entries 84
Mean 0.006286
Std Dev 0.9508

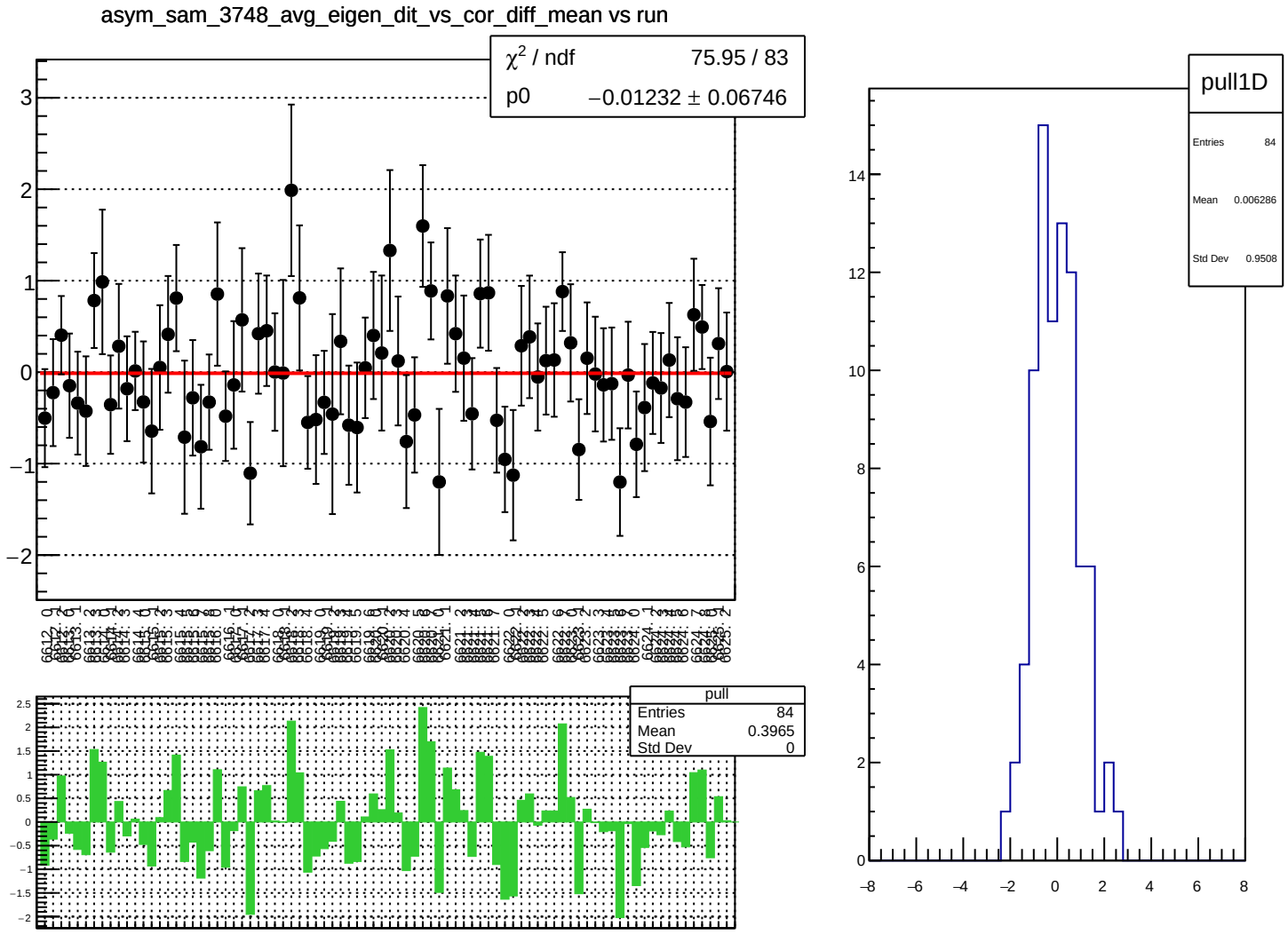

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.851e+04 / 83
p0 60.41 ± 0.0477
110
100
90
80
70
60
50

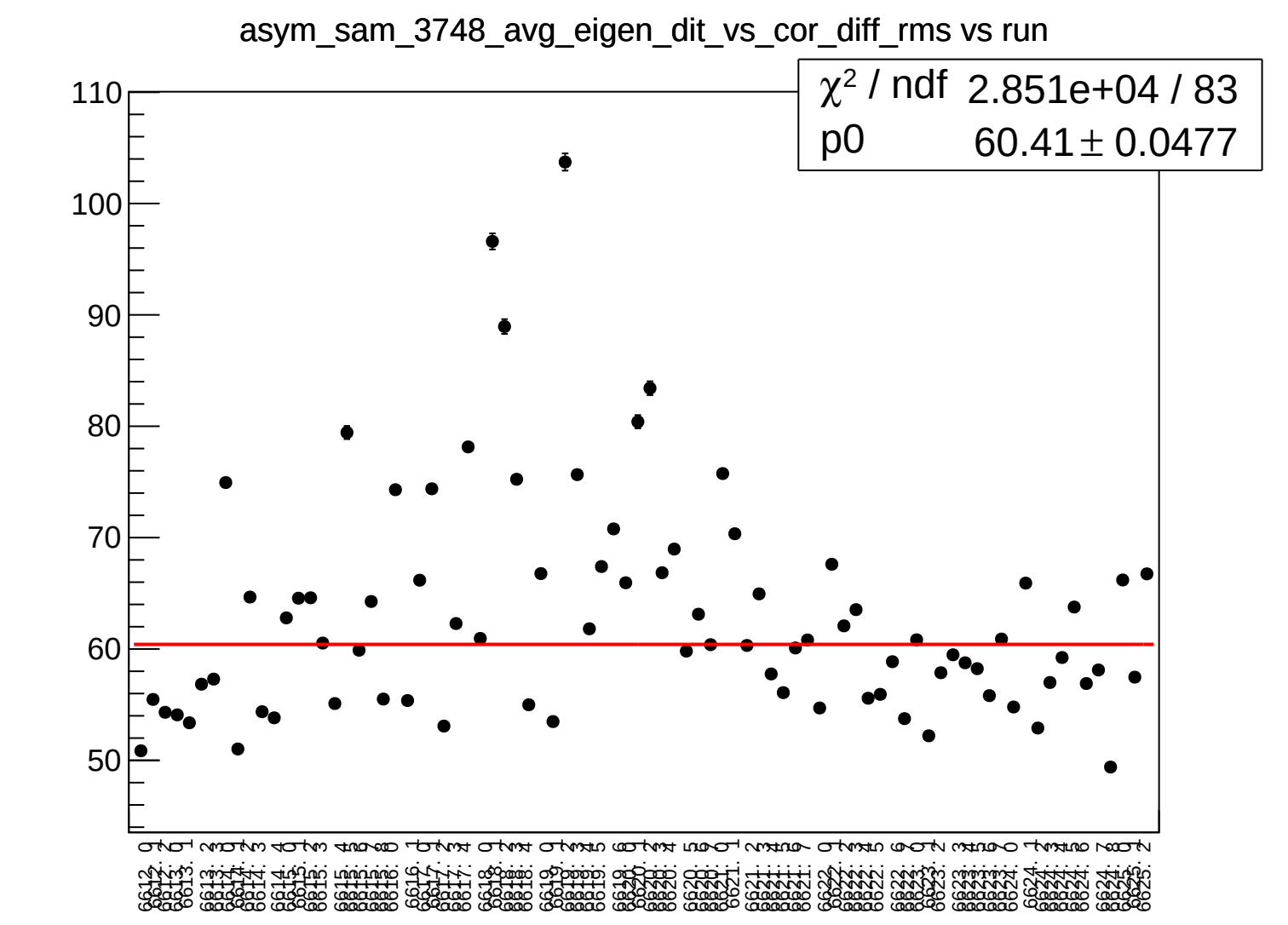

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.95 / 83
p0 −0.01232 ± 0.06746
pull
Entries 84
Mean 0.412
Std Dev 0
pull1D
Entries 84
Mean 0.006286
Std Dev 0.9508

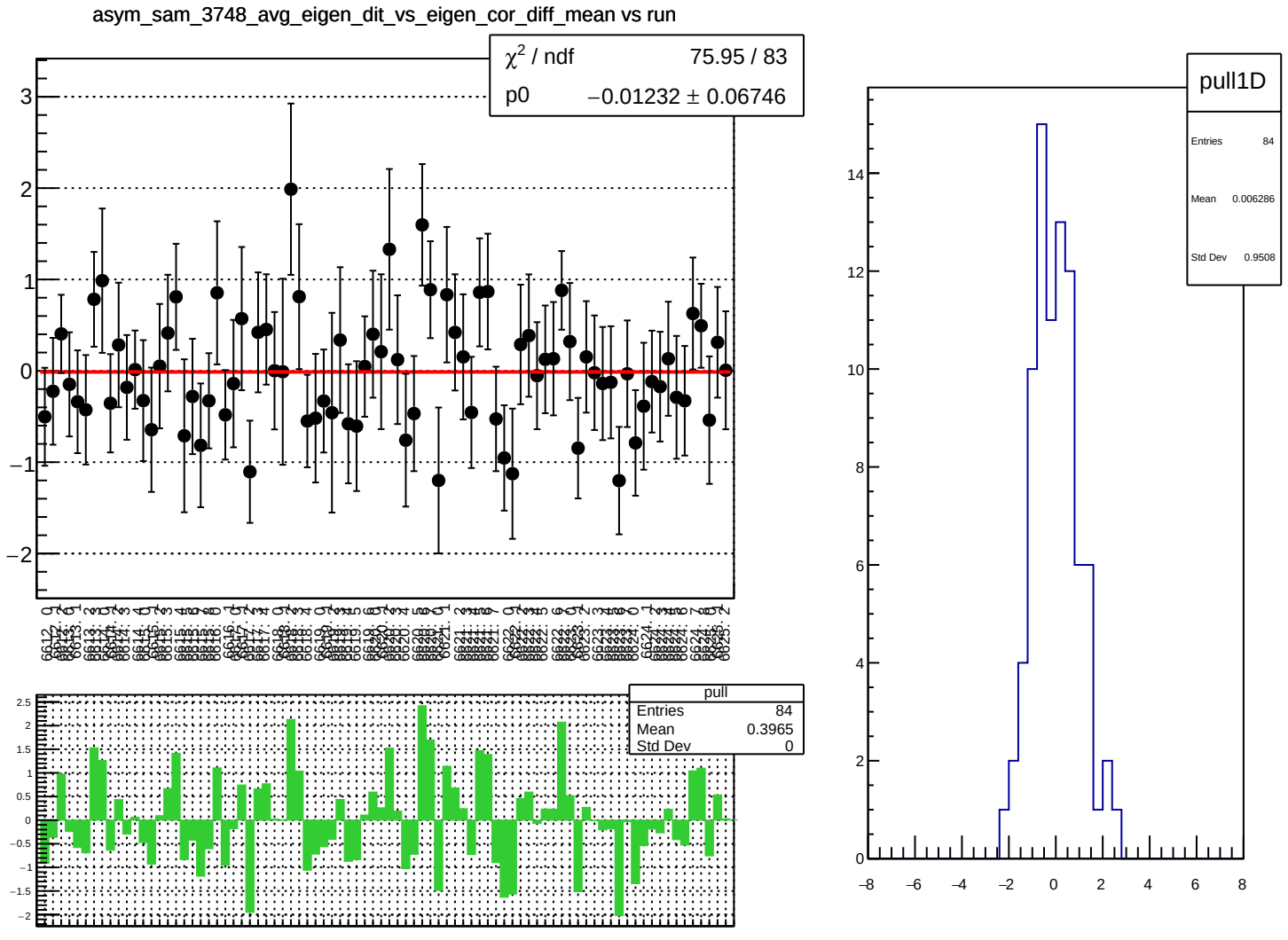

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.851e+04 / 83
p0 60.41 ± 0.0477
110
100
90
80
70
60
50

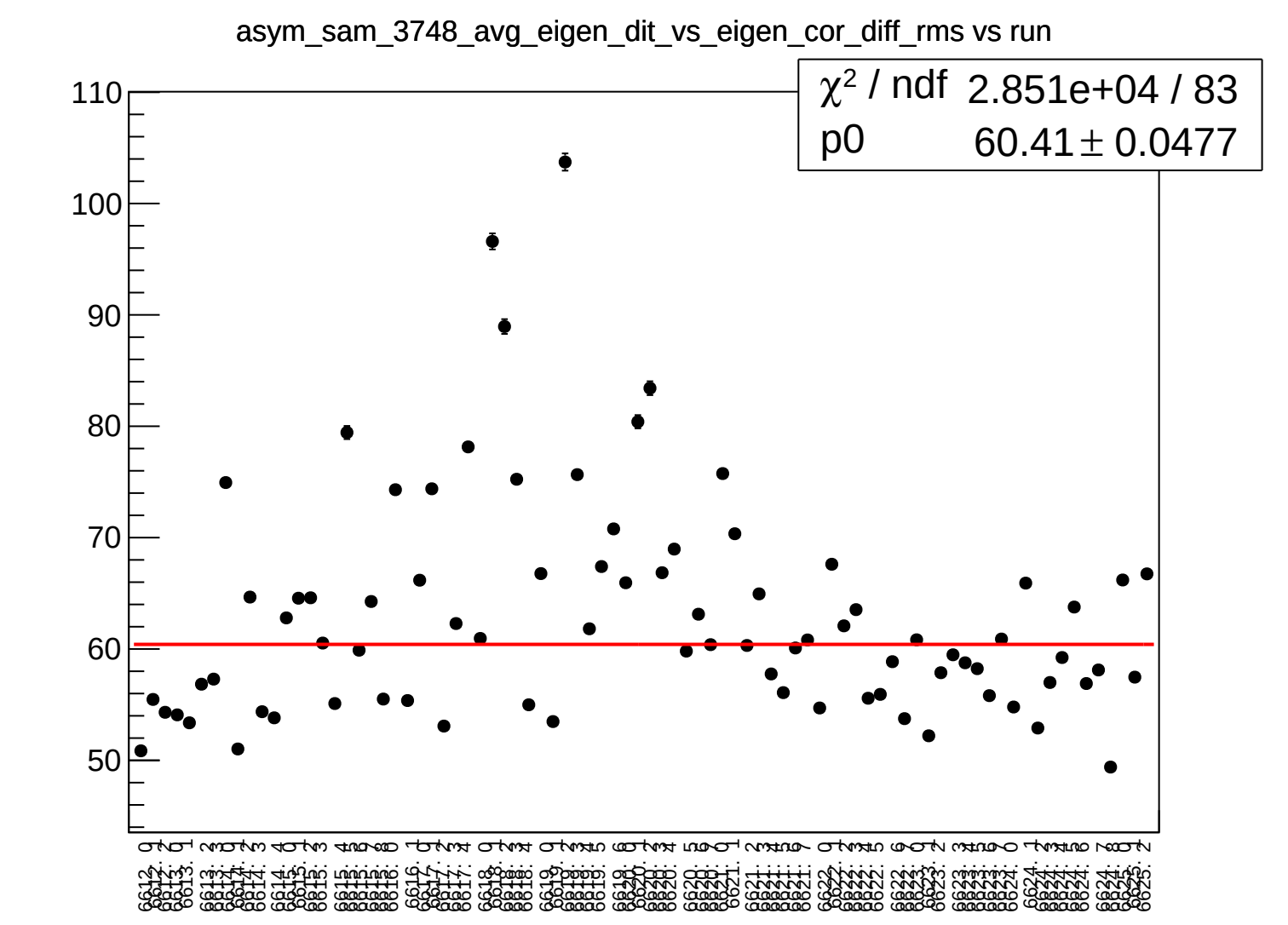

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.28 / 83
p0 1.549e−06 ± 3.09e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean 136.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.01821
Std Dev 0.9145
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

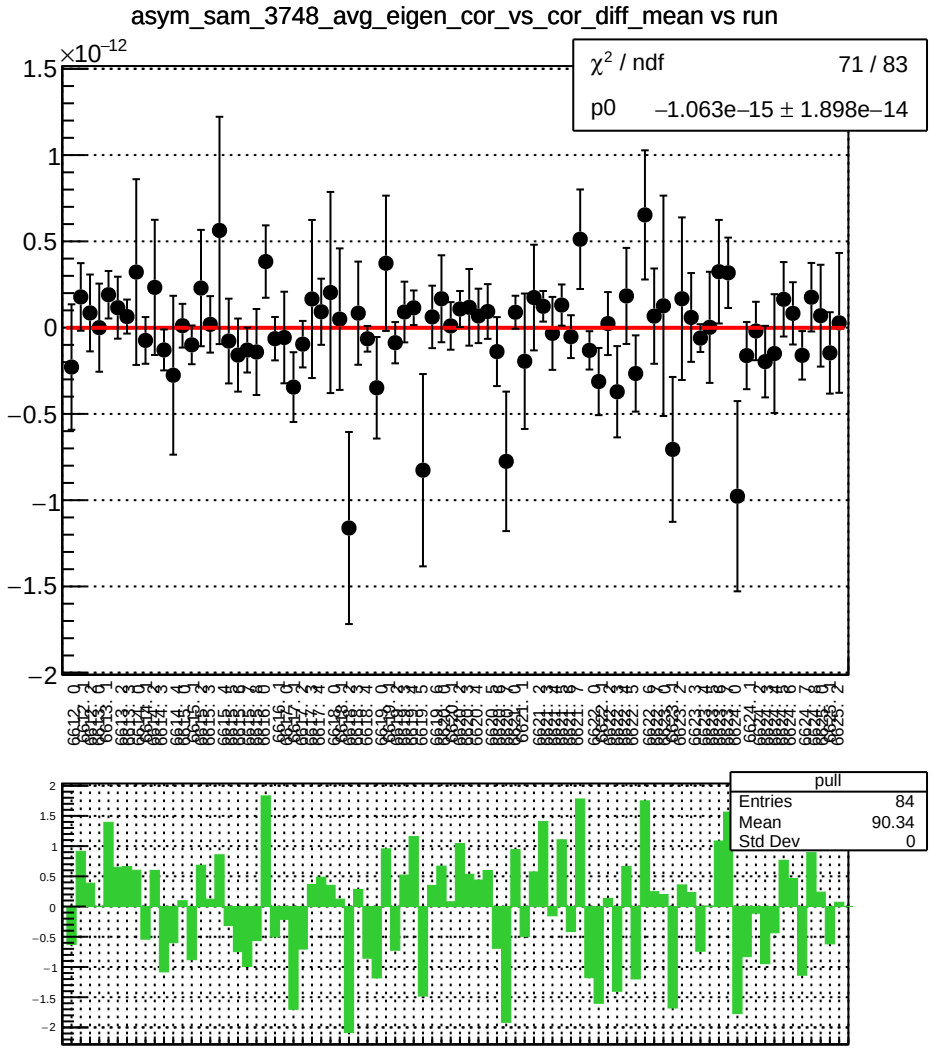

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6031 / 83
p0 0.002787 ± 2.185e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025

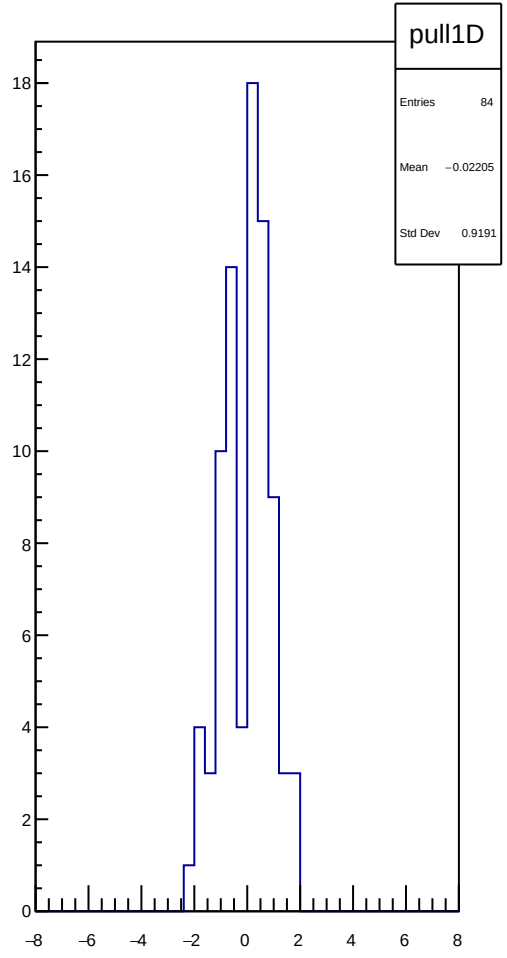

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.95 / 83
p0 −0.01232 ± 0.06746
pull
Entries 84
Mean 0.3965
Std Dev 0
pull1D
Entries 84
Mean 0.006286
Std Dev 0.9508

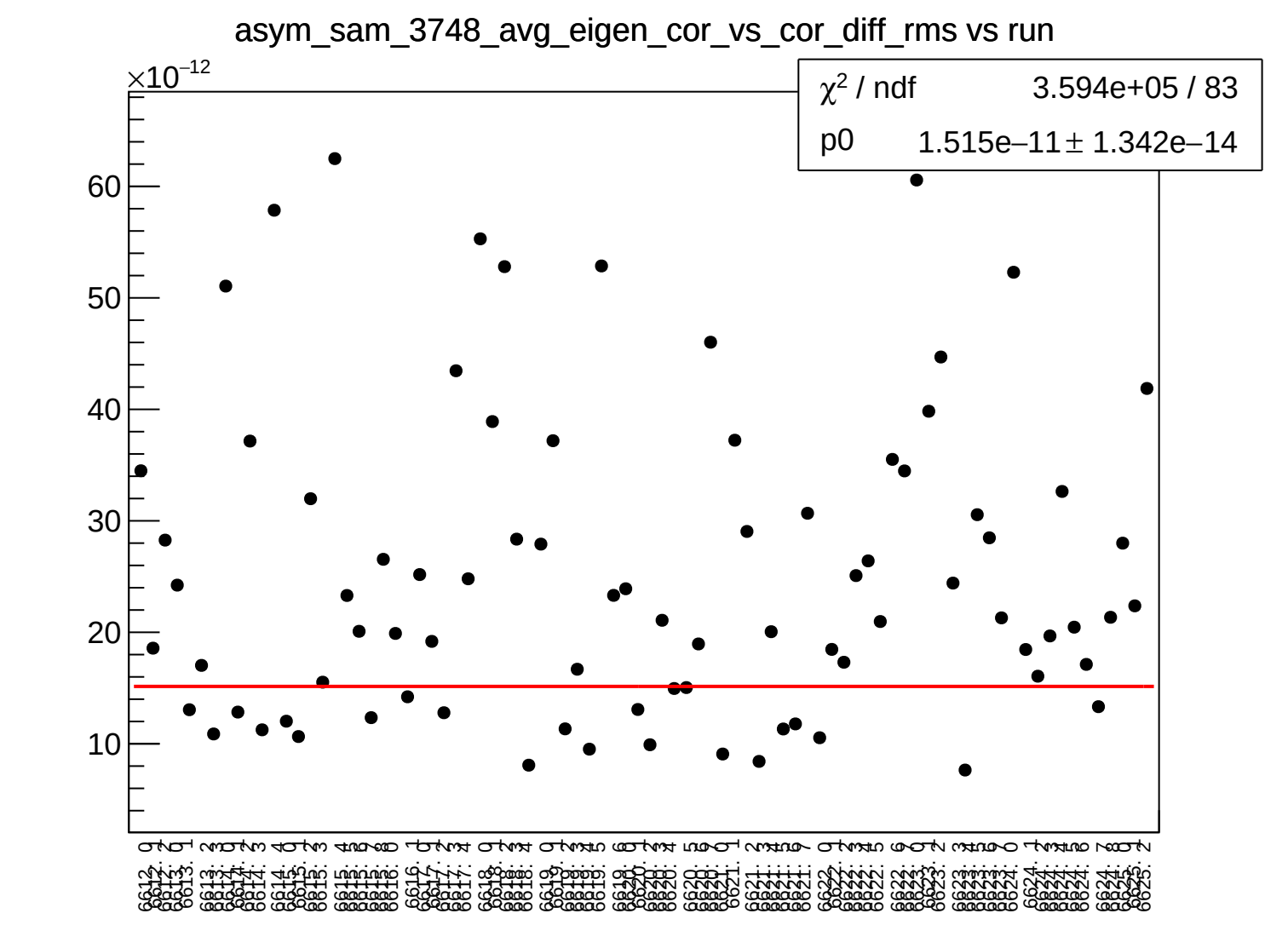

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.851e+04 / 83
p0 60.41 ± 0.0477
110
100
90
80
70
60
50

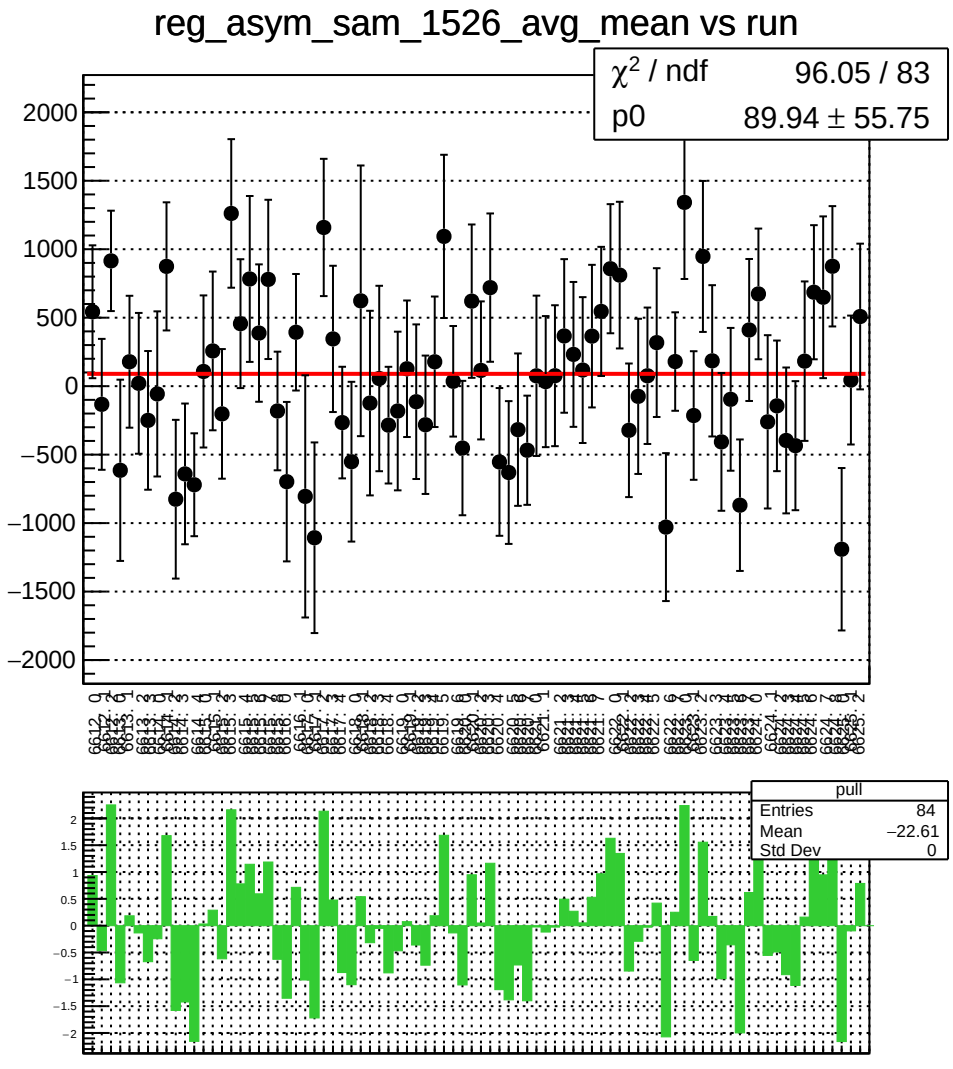

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.95 / 83
p0 −0.01232 ± 0.06746
pull
Entries 84
Mean 0.3965
Std Dev 0
pull1D
Entries 84
Mean 0.006286
Std Dev 0.9508

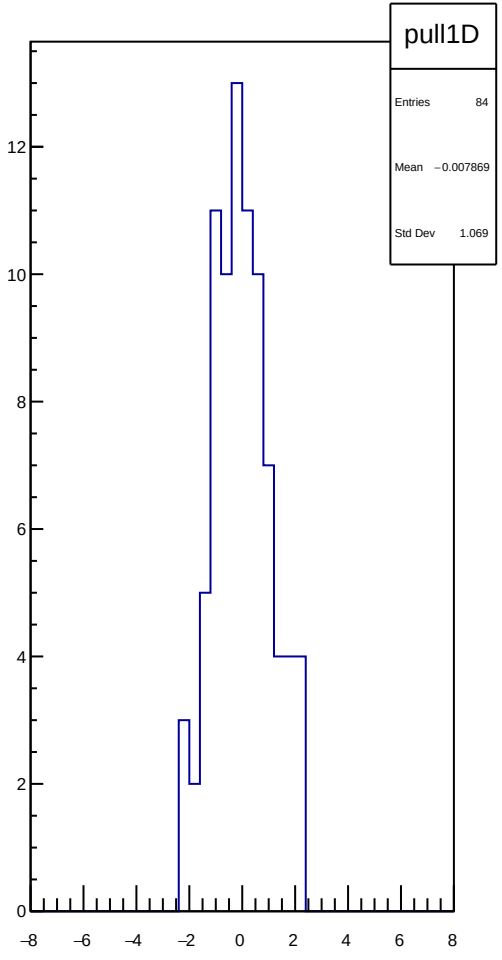

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.851e+04 / 83
p0 60.41 ± 0.0477
110
100
90
80
70
60
50

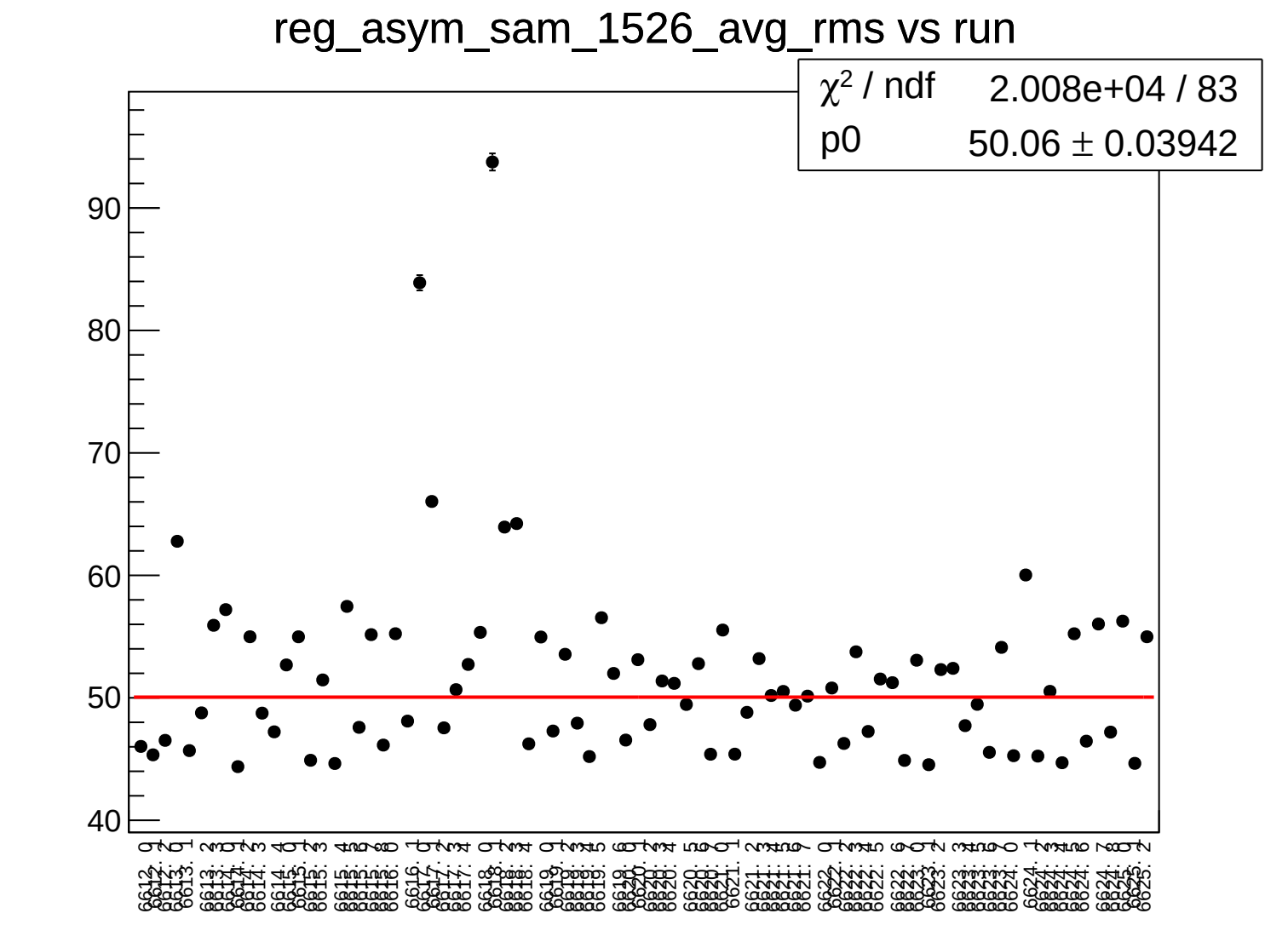

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71 / 83
p0 −1.063e−15 ± 1.898e−14
pull
Entries 84
Mean 90.34
Std Dev 0

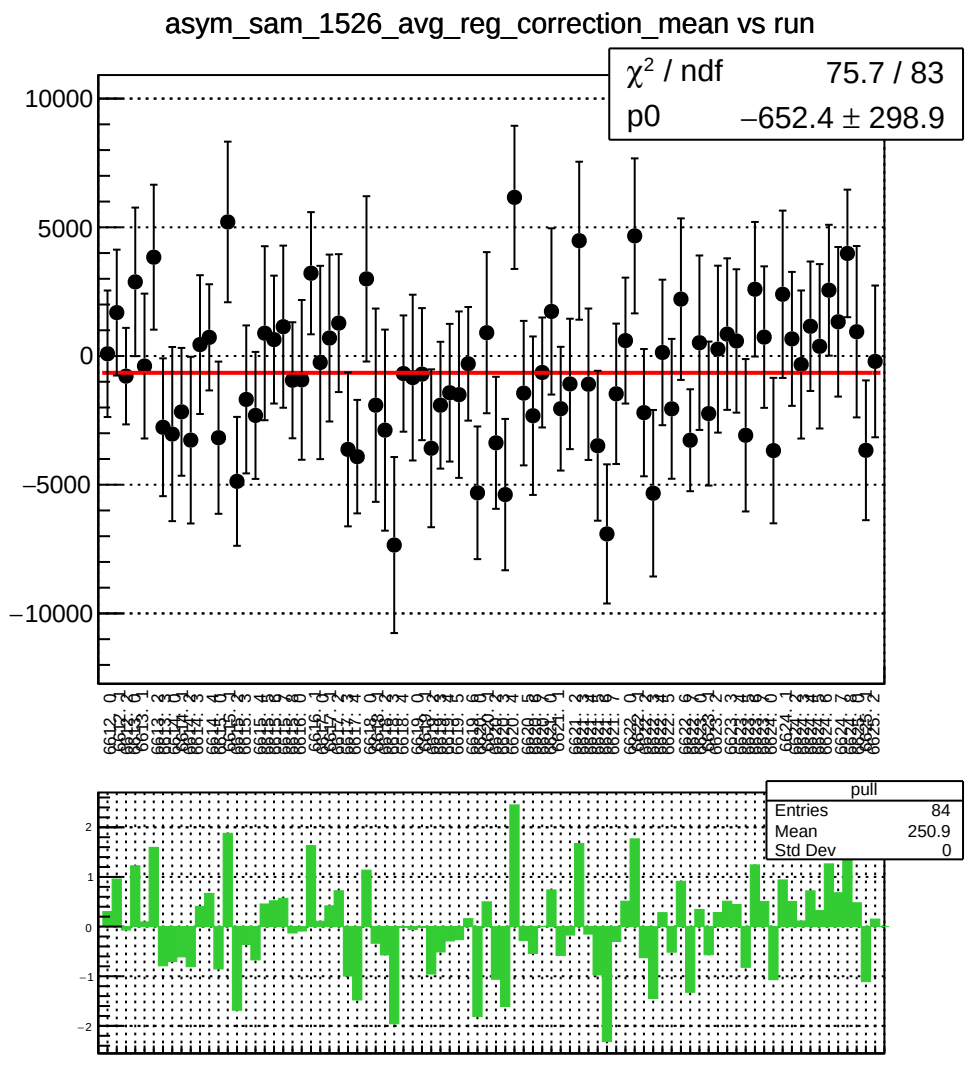

pull1D
Entries 84
Mean −0.02205
Std Dev 0.9191

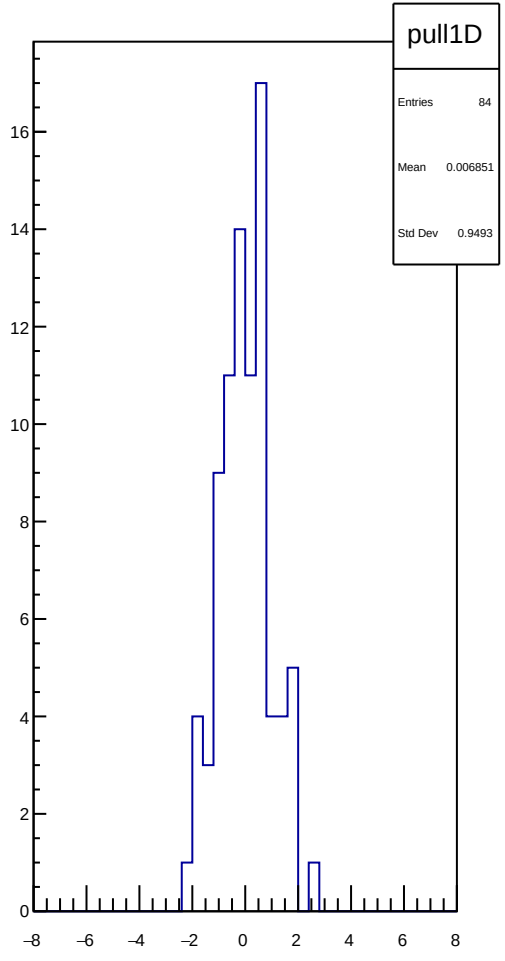

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.594e+05 / 83
p0 1.515e−11 ± 1.342e−14
60
50
40
30
20
10

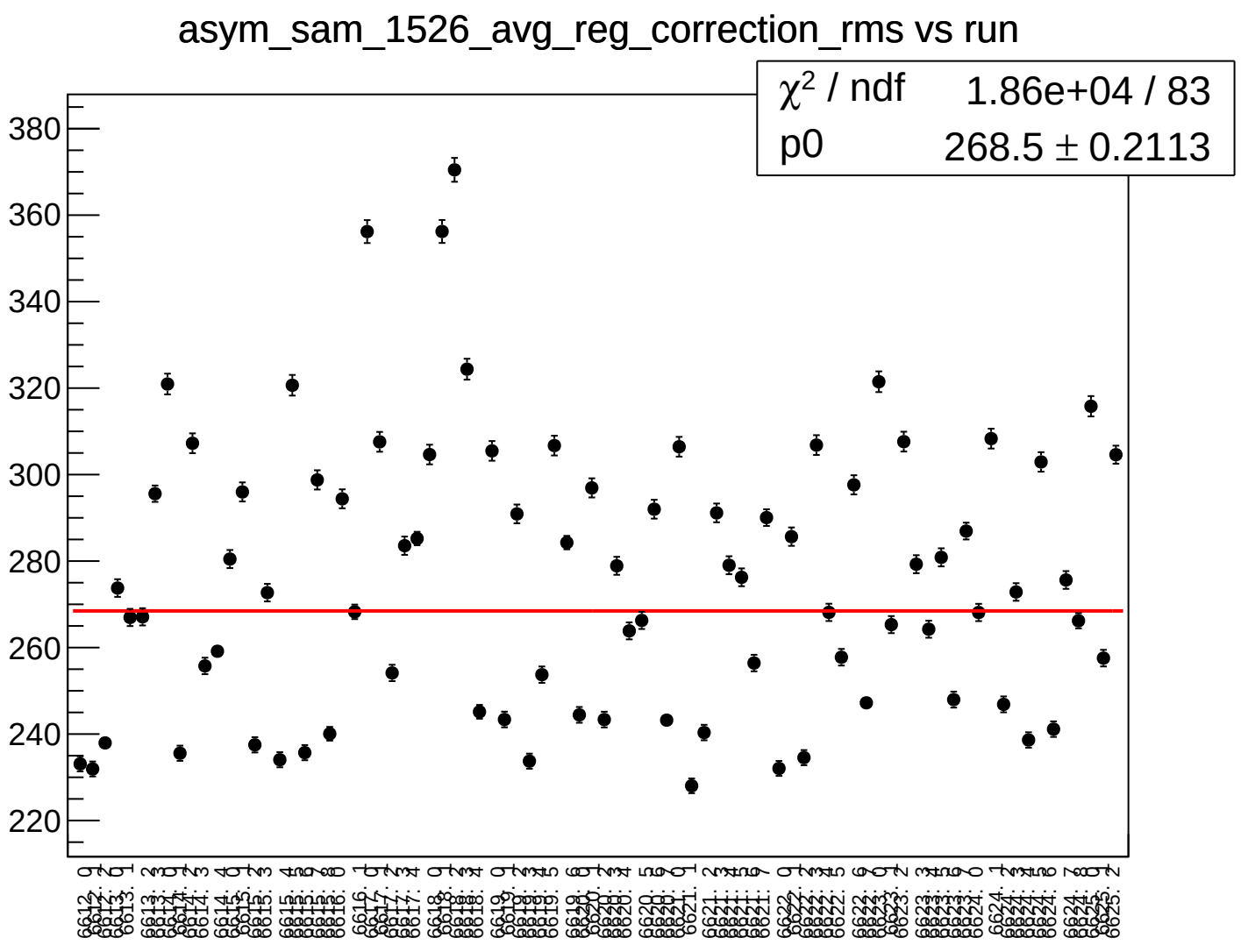

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 96.05 / 83
p0 89.94 ± 55.75
pull
Entries 84
Mean −22.61
Std Dev 0

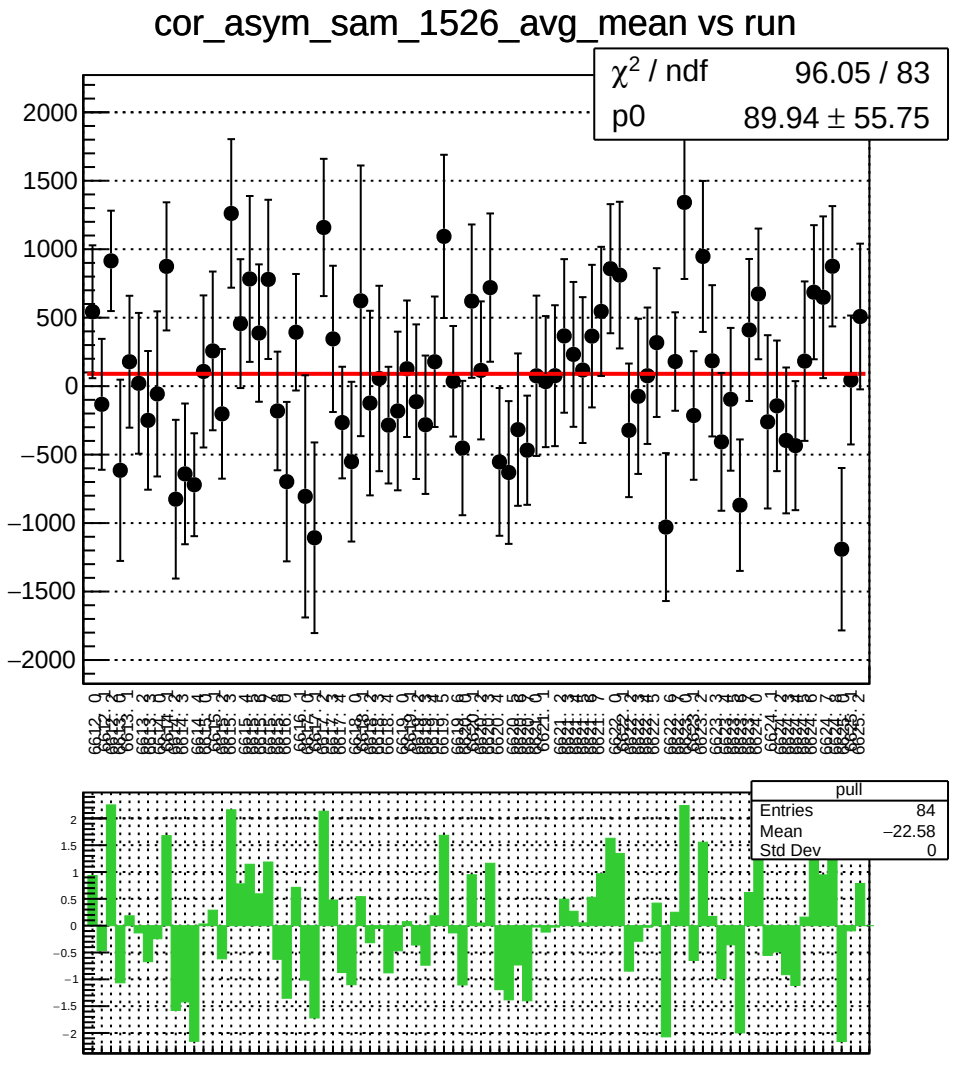

pull1D
Entries 84
Mean −0.007869
Std Dev 1.069

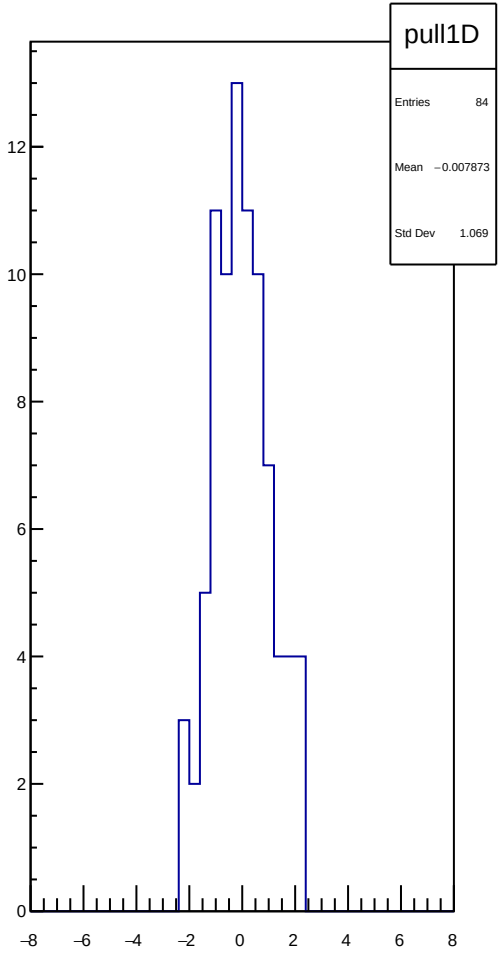

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.008e+04 / 83
p0 50.06 ± 0.03942
90
80
70
60
50
40

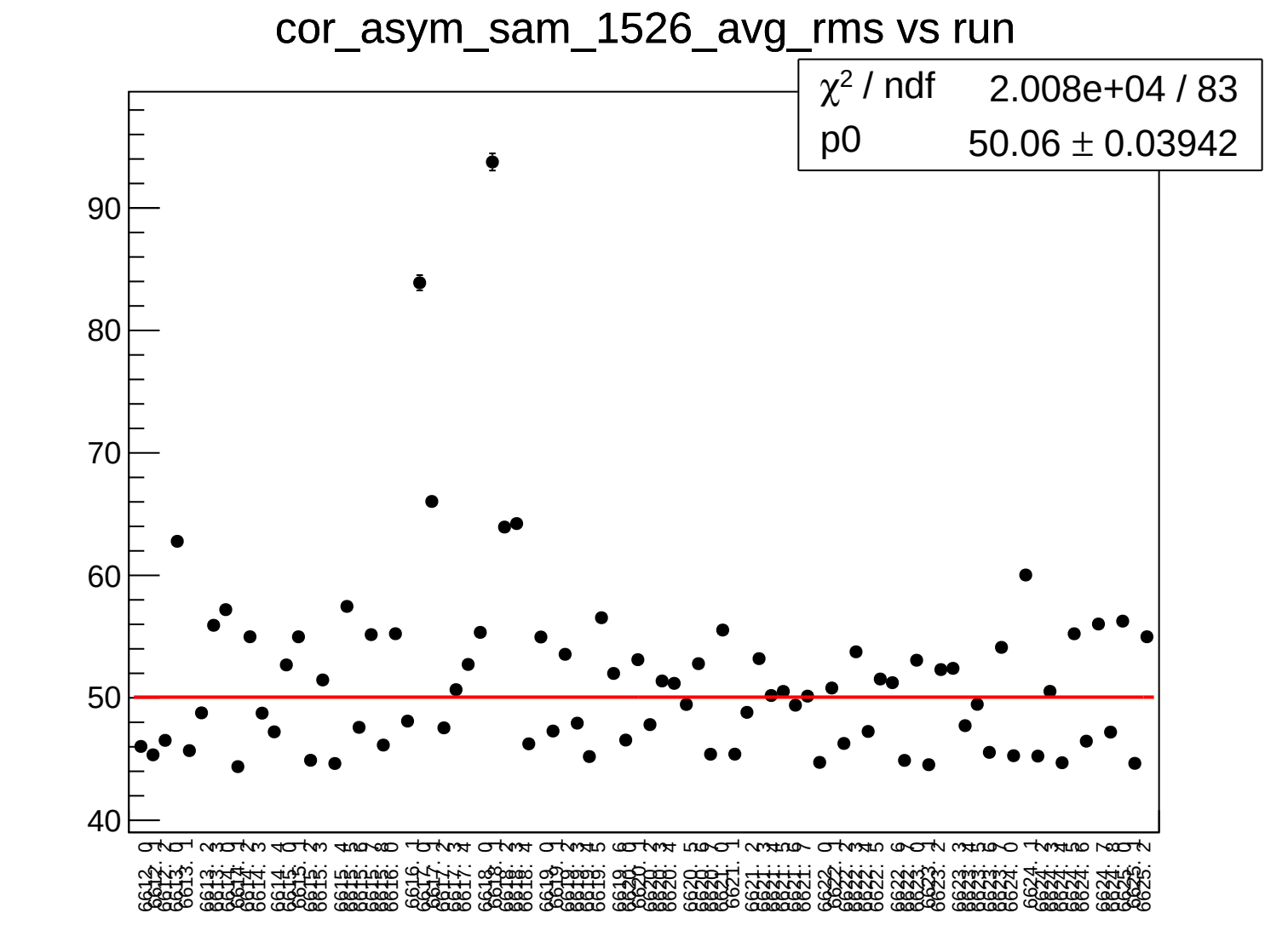

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 75.7 / 83
p0 −652.4 ± 298.9
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 250.9
Std Dev 0
2
1
0
−1
−2

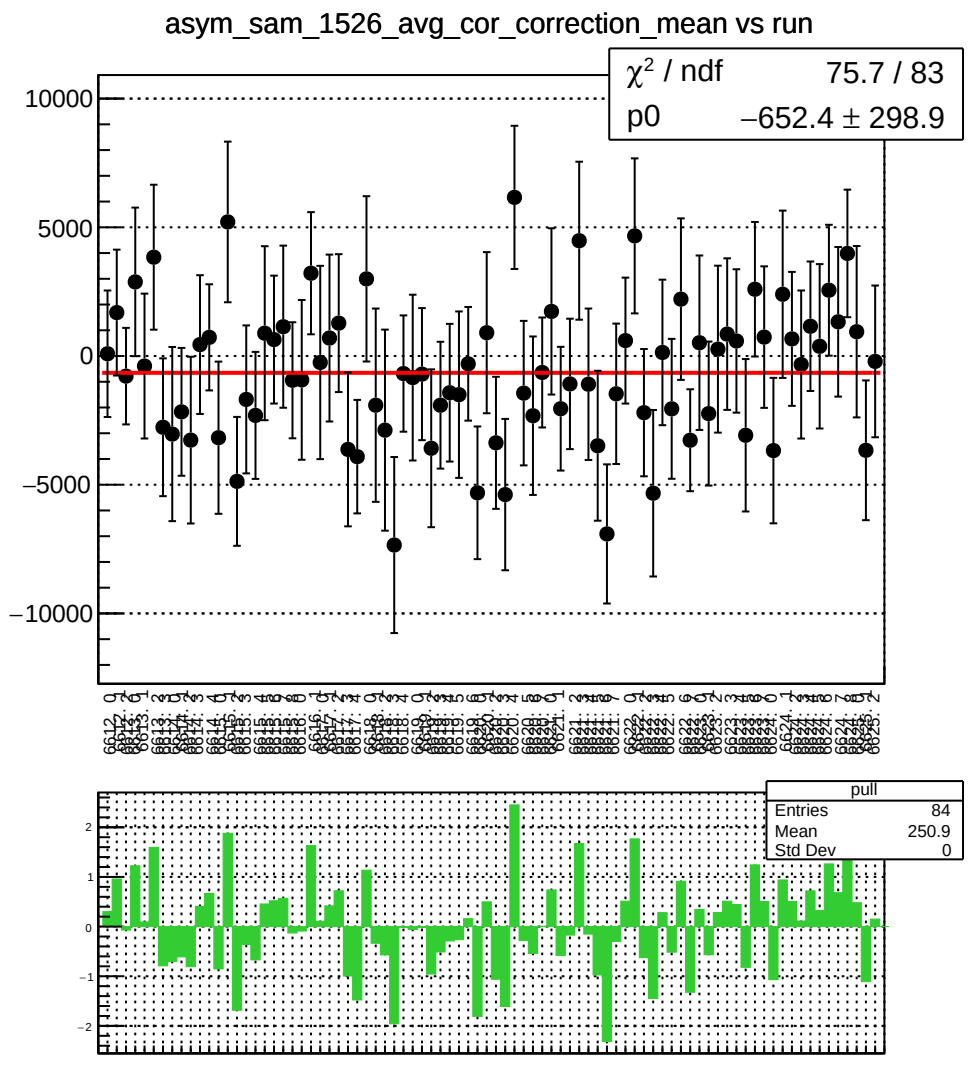

pull1D
Entries 84
Mean 0.006851
Std Dev 0.9493
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

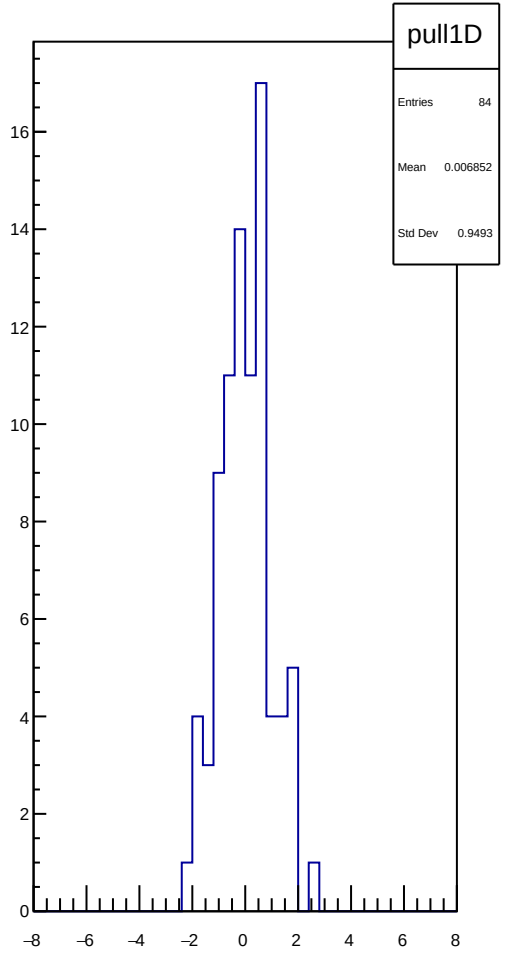

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 1.86e+04 / 83
p0 268.5 ± 0.2113
380
360
340
320
300
280
260
240
220

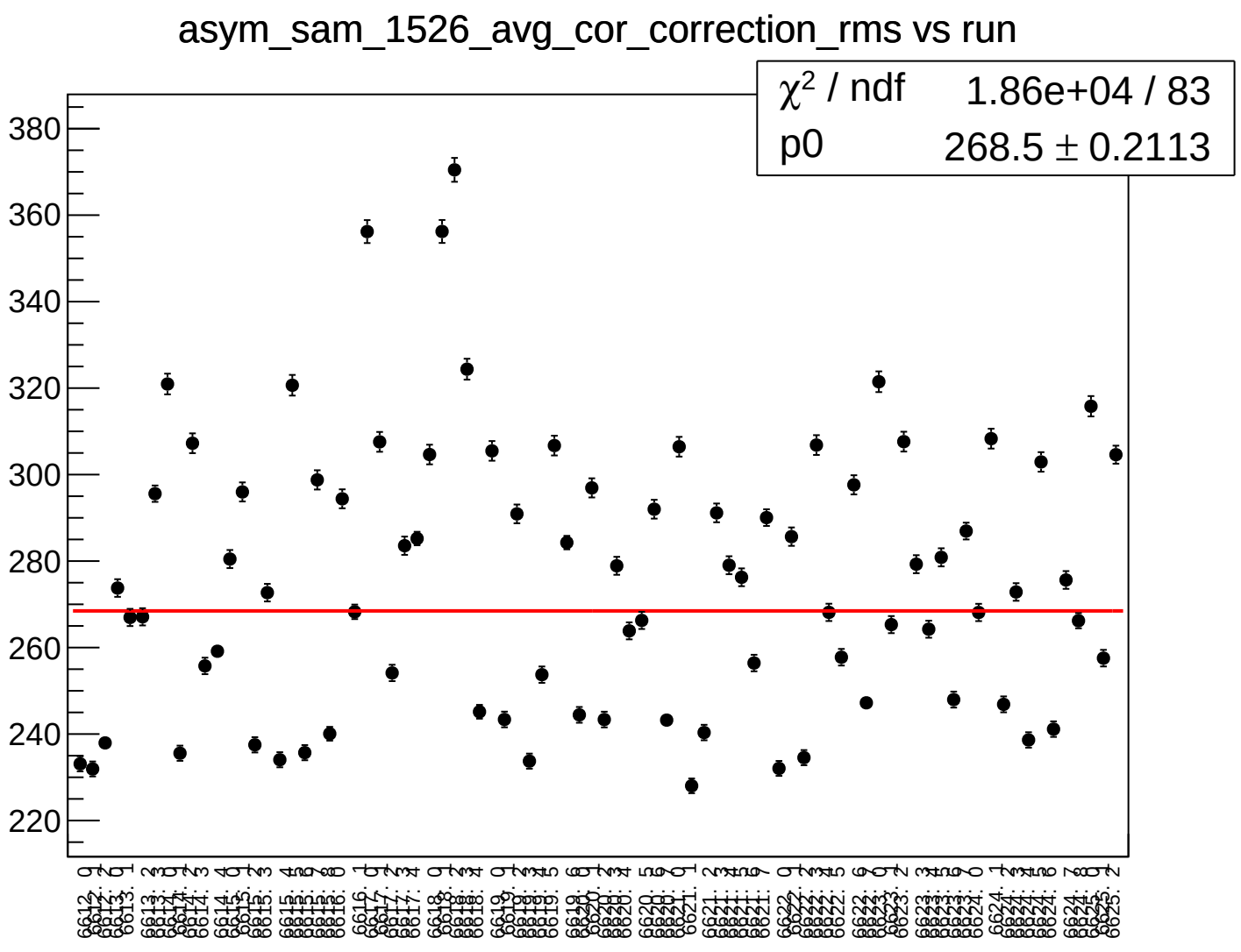

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 96.05 / 83
p0 89.94 ± 55.75
pull
Entries 84
Mean −22.58
Std Dev 0

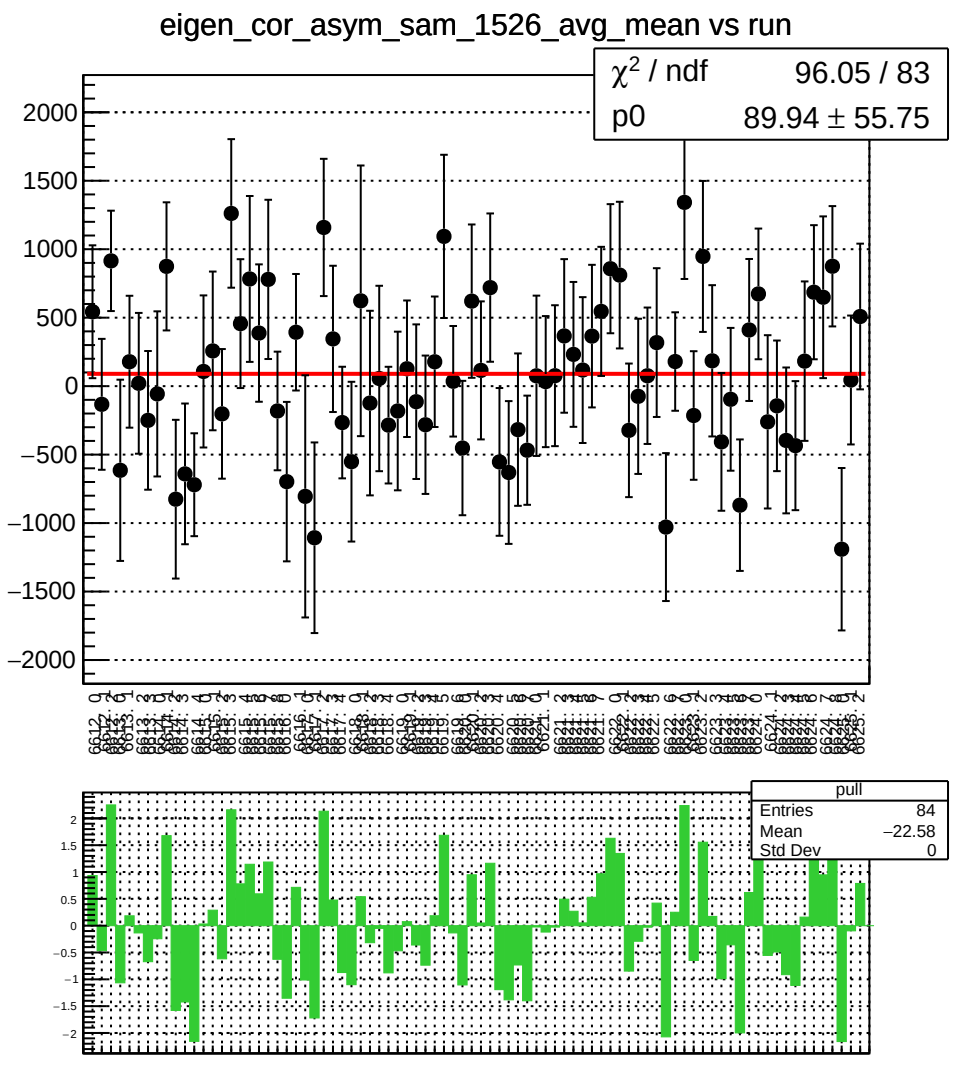

pull1D
Entries 84
Mean −0.007873
Std Dev 1.069

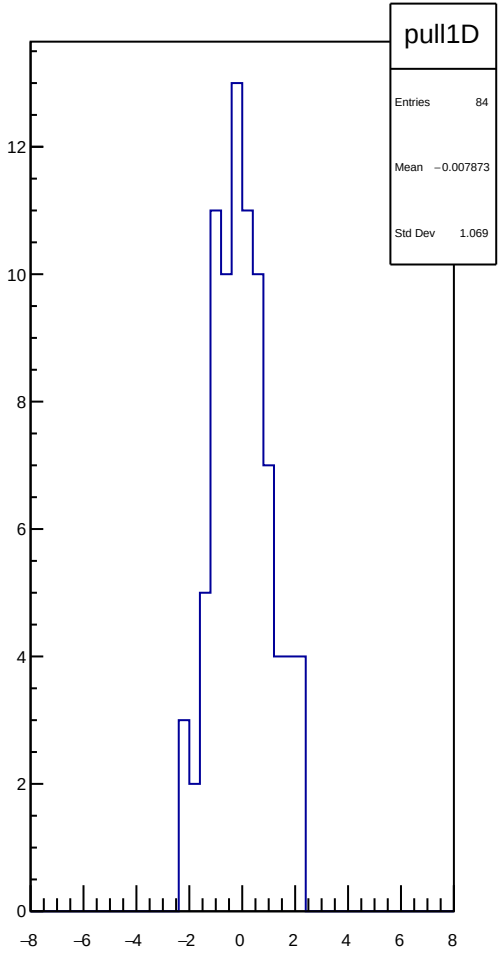

cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.008e+04 / 83
p0 50.06 ± 0.03942
90
80
70
60
50
40

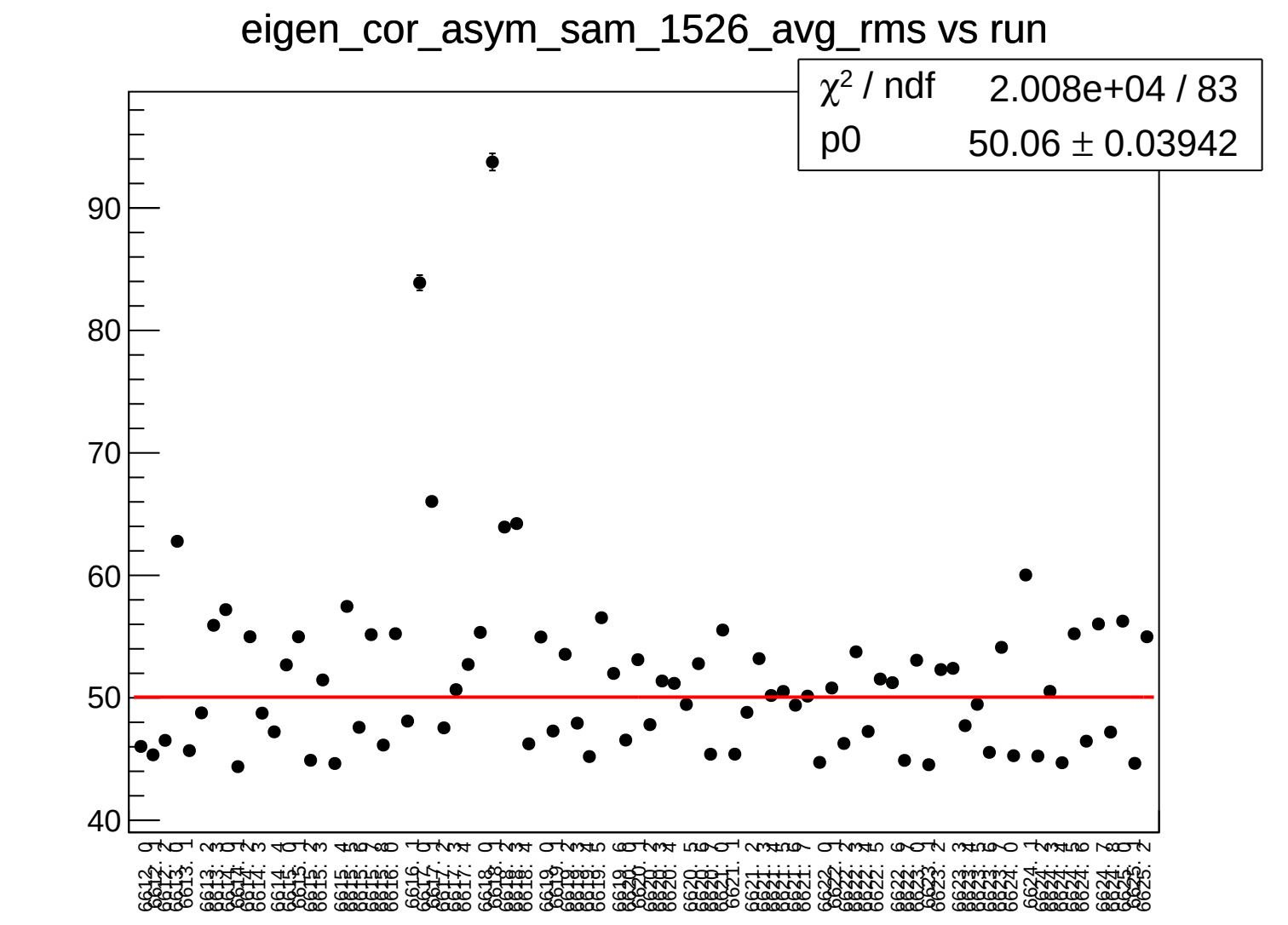

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 75.7 / 83
p0 −652.4 ± 298.9
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 250.9
Std Dev 0
2
1
0
−1
−2

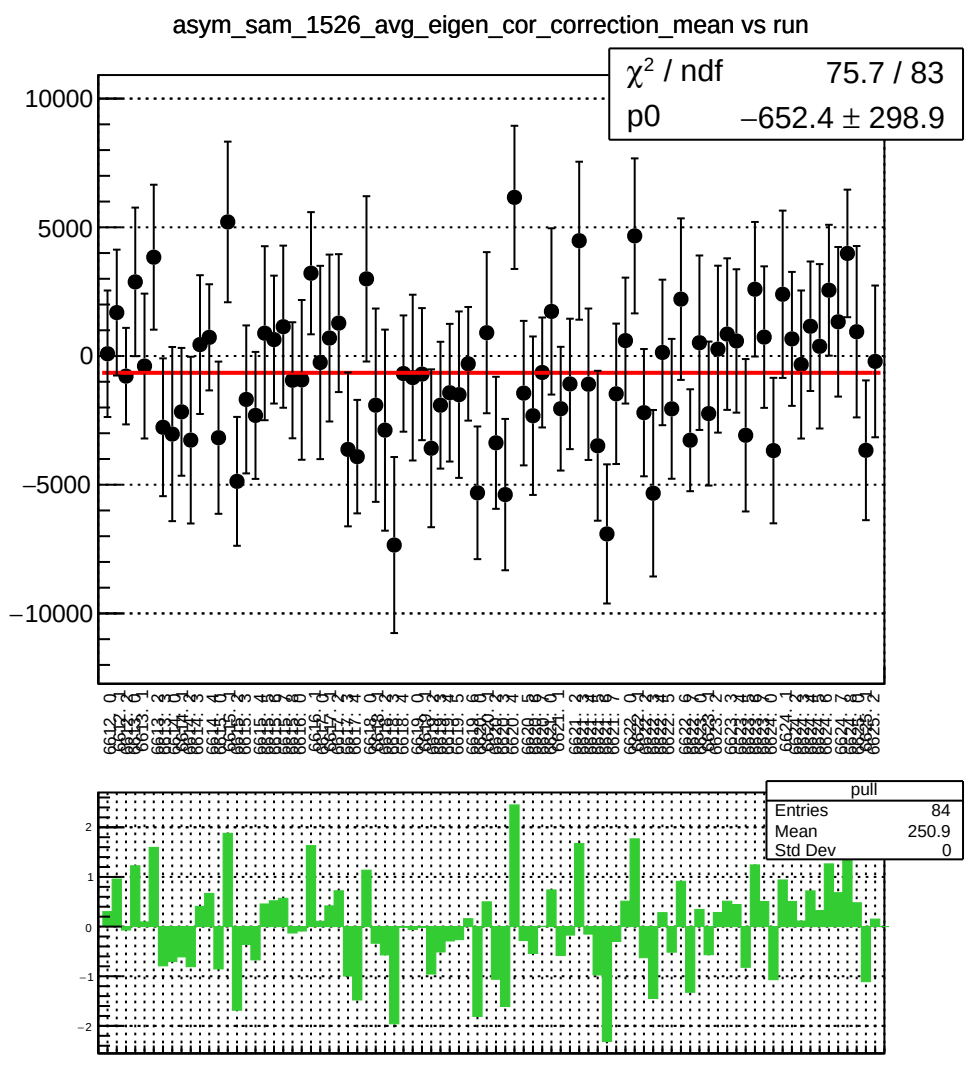

pull1D
Entries 84
Mean 0.006852
Std Dev 0.9493
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

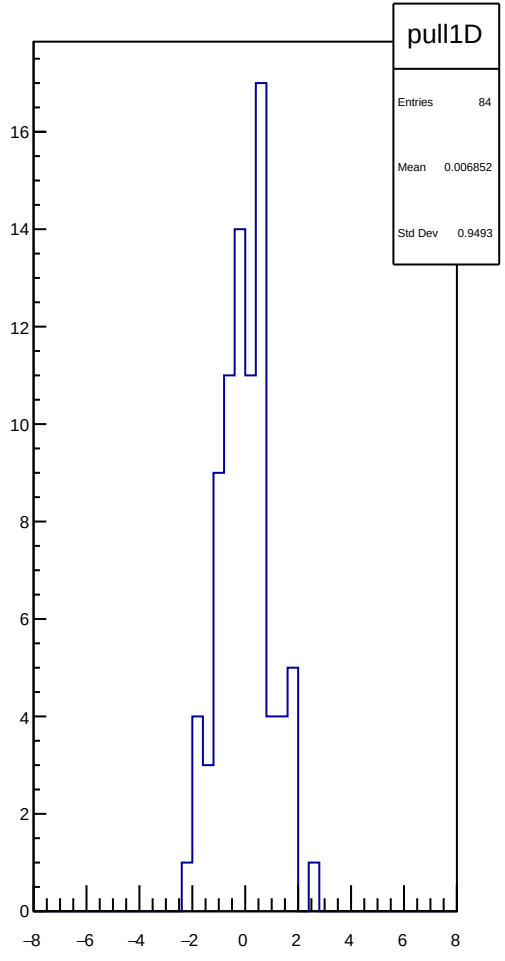

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 1.86e+04 / 83
p0 268.5 ± 0.2113
380
360
340
320
300
280
260
240
220

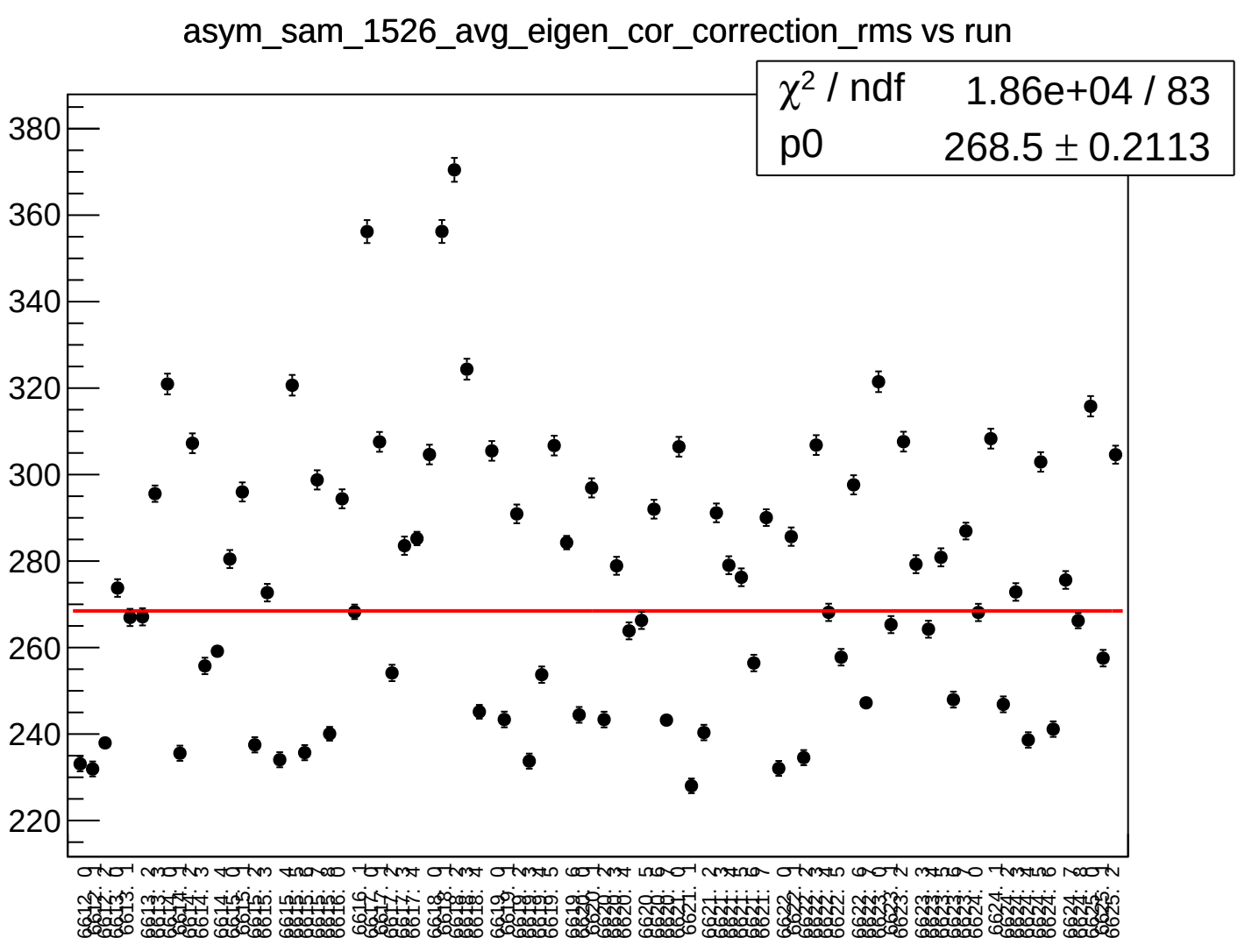

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 96.05 / 83
p0 89.94 ± 55.75
pull
Entries 84
Mean −22.58
Std Dev 0

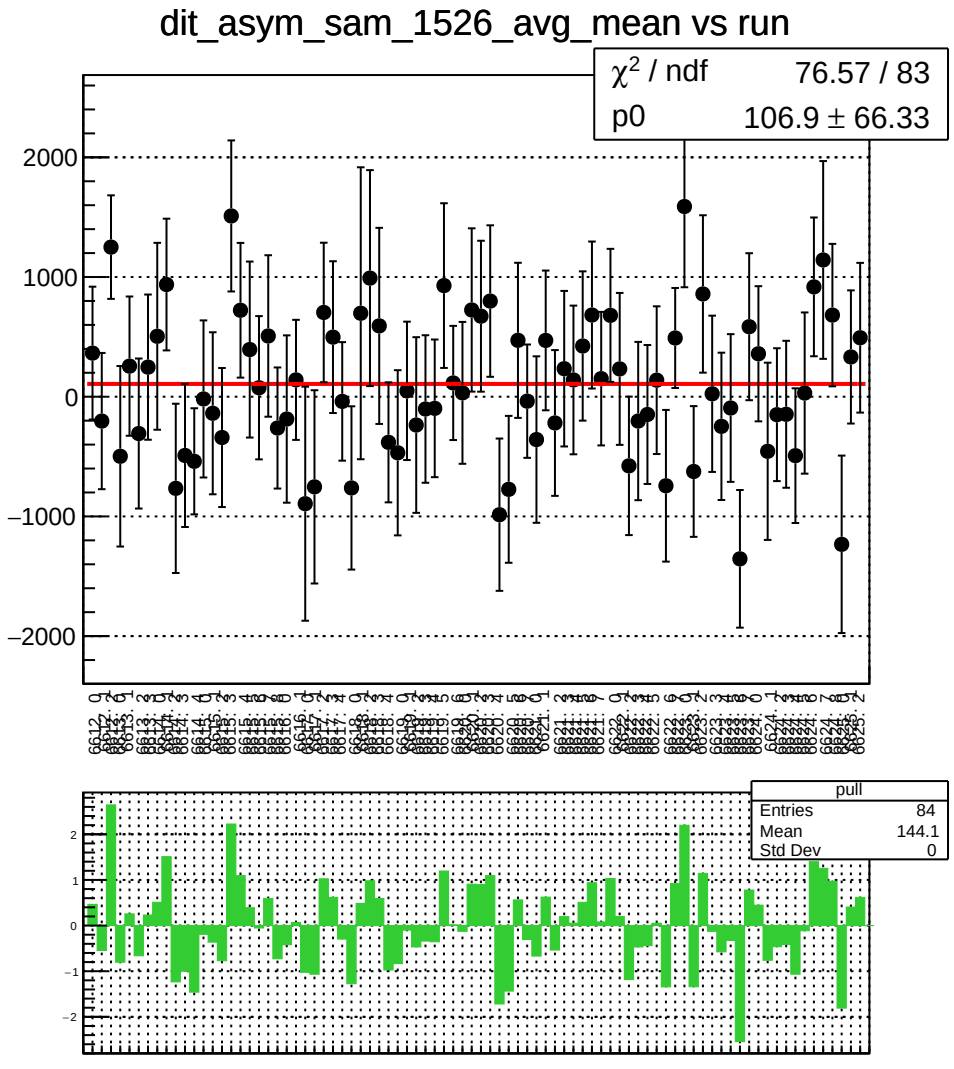

pull1D
Entries 84
Mean −0.007873
Std Dev 1.069

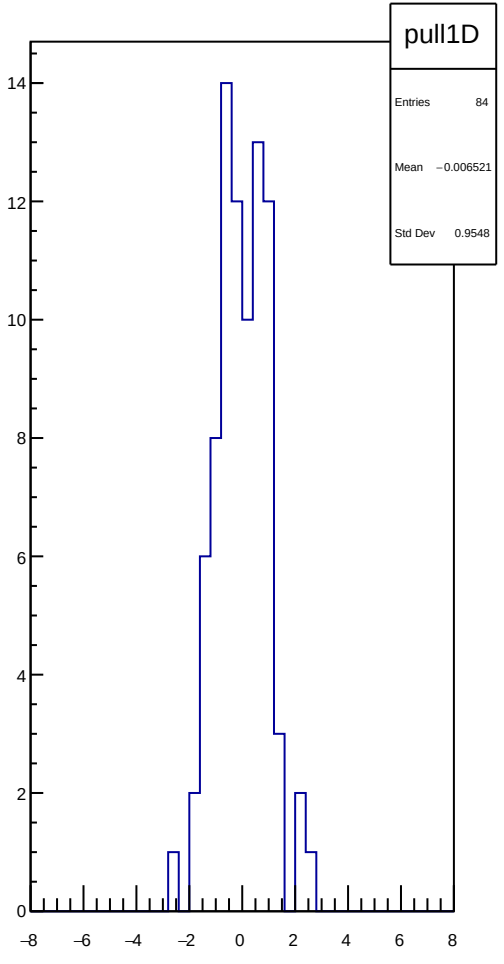

eigen_cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.008e+04 / 83
p0 50.06 ± 0.03942
90
80
70
60
50
40

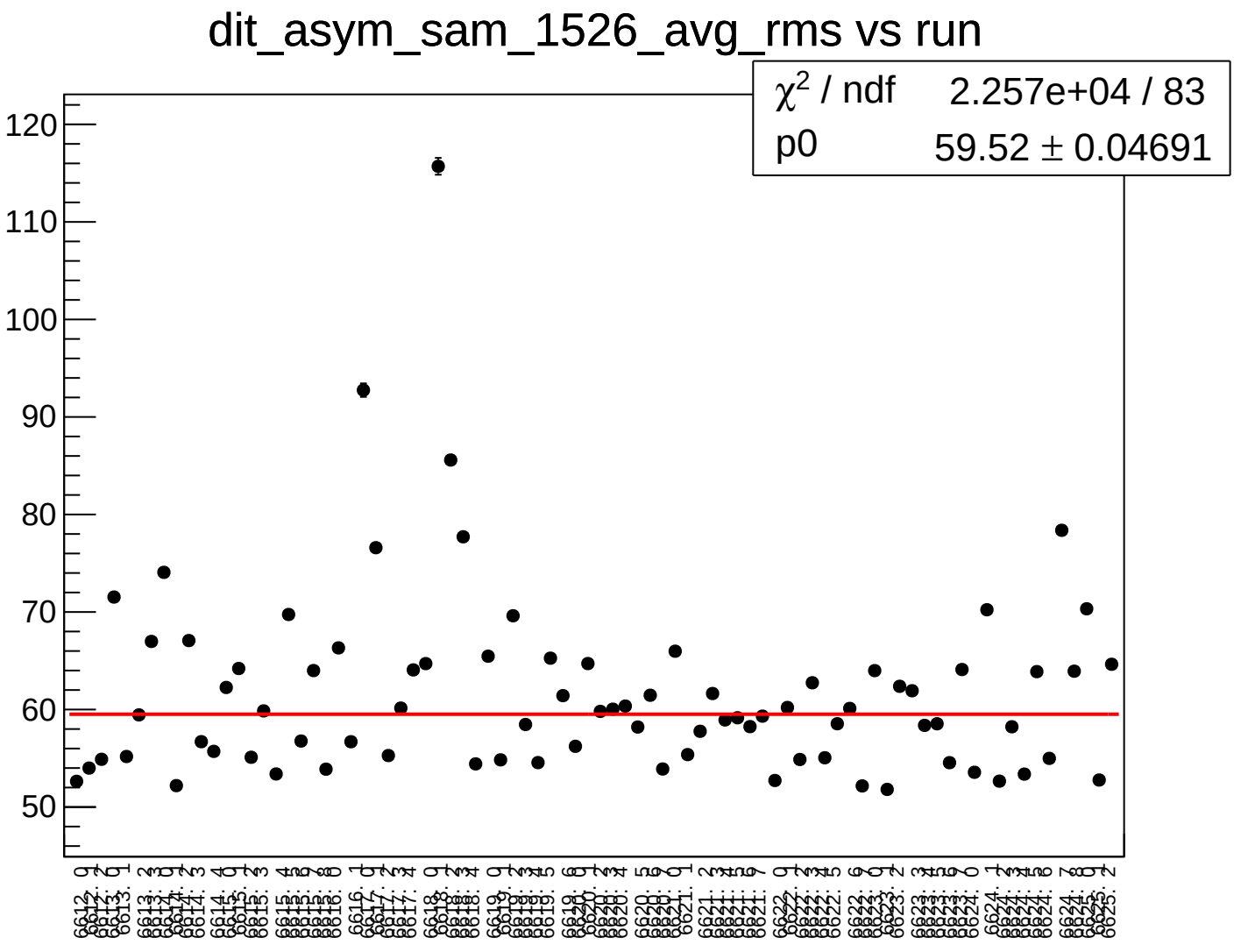

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 75.7 / 83
p0 −652.4 ± 298.9
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 250.9
Std Dev 0
2
1
0
−1
−2

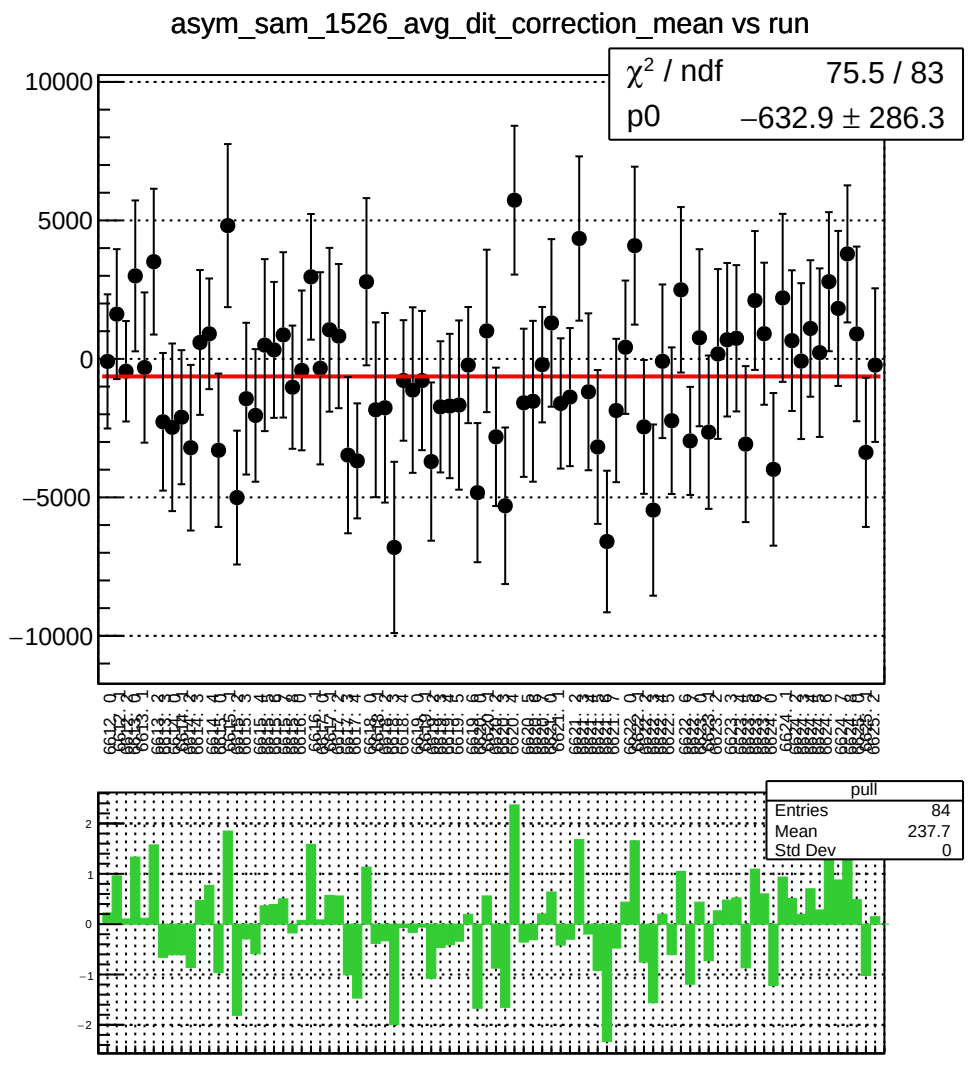

pull1D
Entries 84
Mean 0.006852
Std Dev 0.9493
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

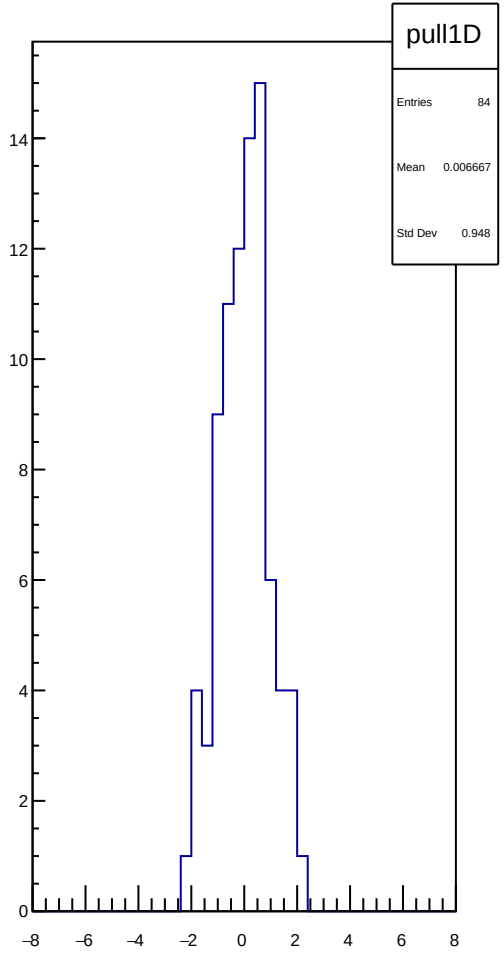

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.86e+04 / 83
p0 268.5 ± 0.2113
380
360
340
320
300
280
260
240
220

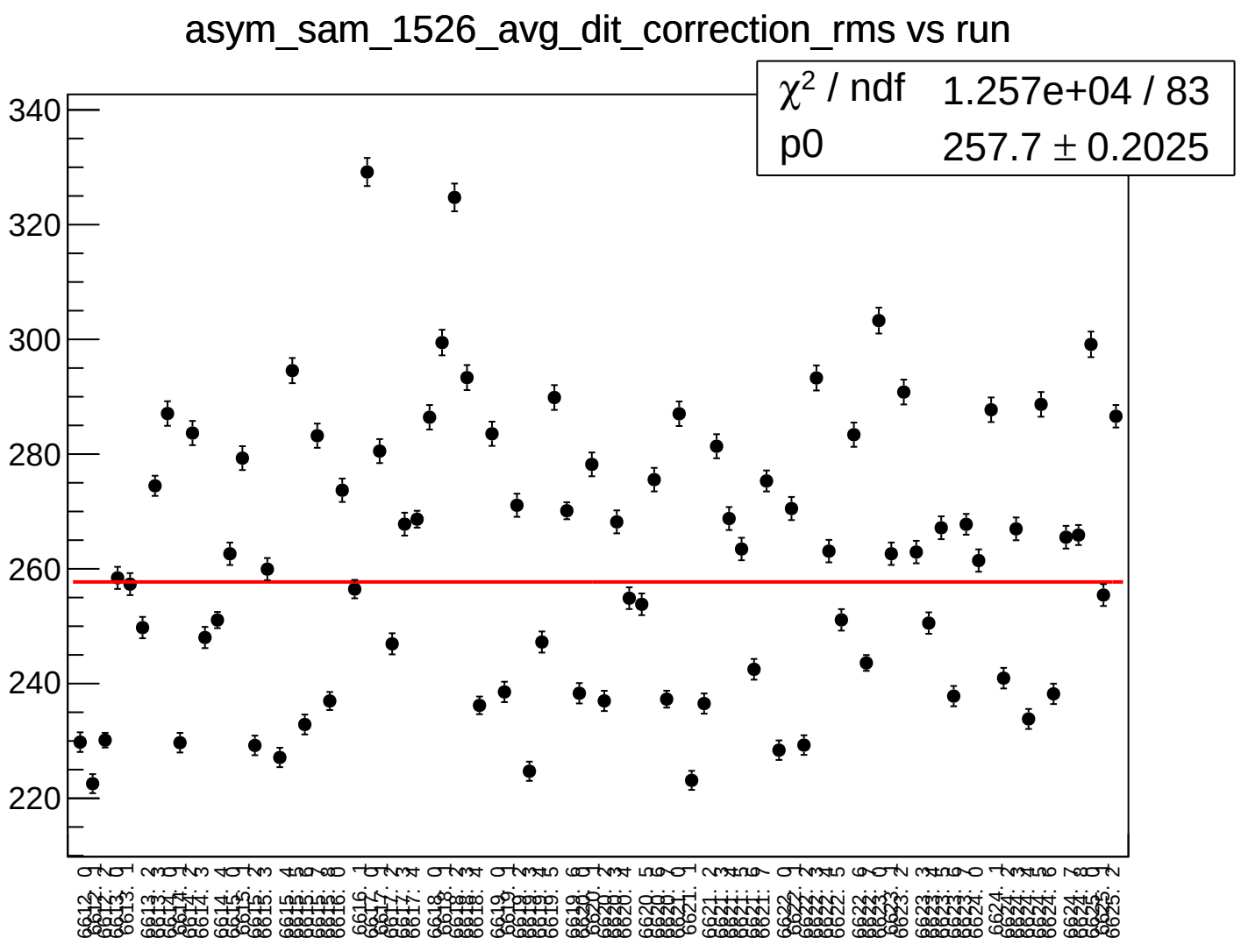

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 76.57 / 83
p0 106.9 ± 66.33
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 144.1
Std Dev 0
2
1
0
−1
−2

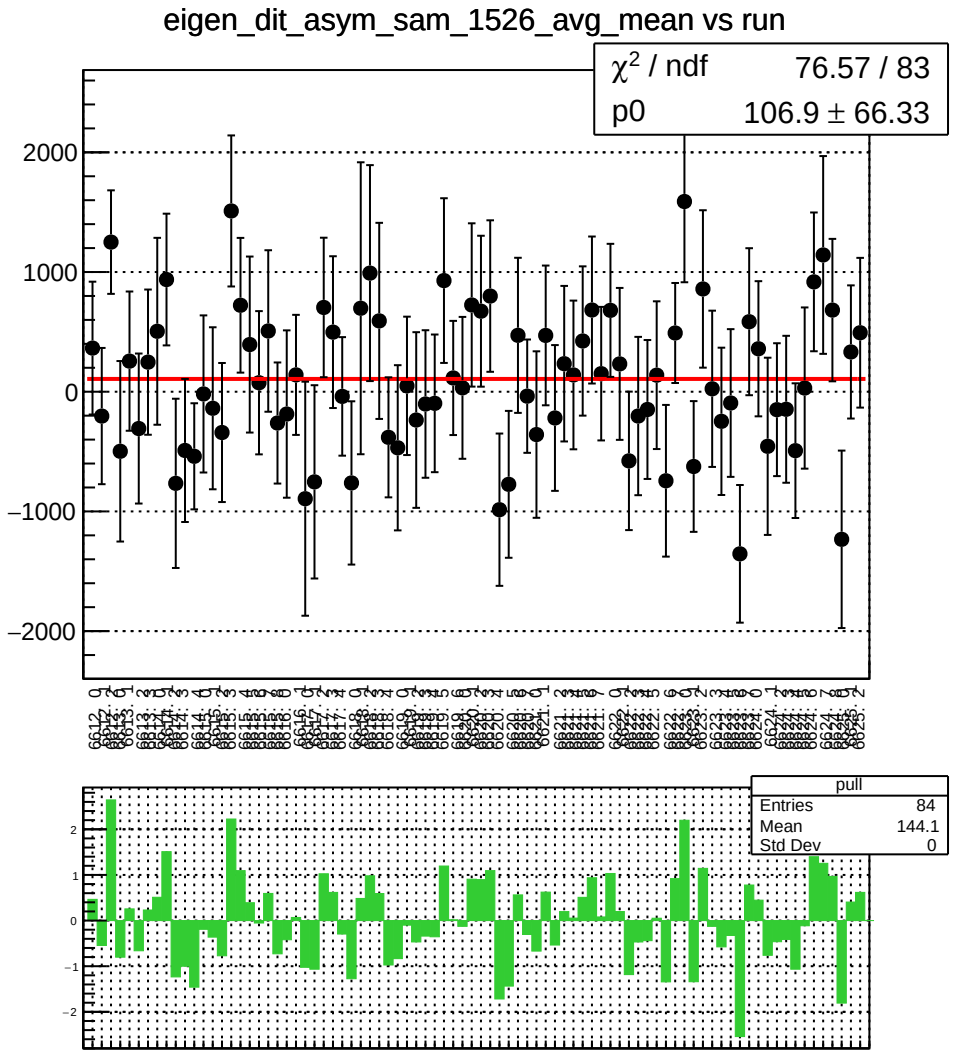

pull1D
Entries 84
Mean −0.006521
Std Dev 0.9548
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

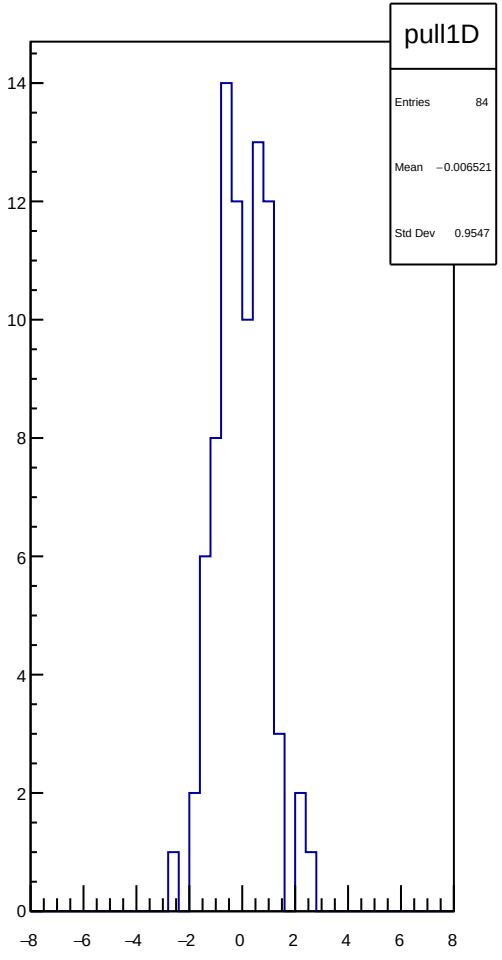

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.257e+04 / 83
p0 59.52 ± 0.04691
120
110
100
90
80
70
60
50

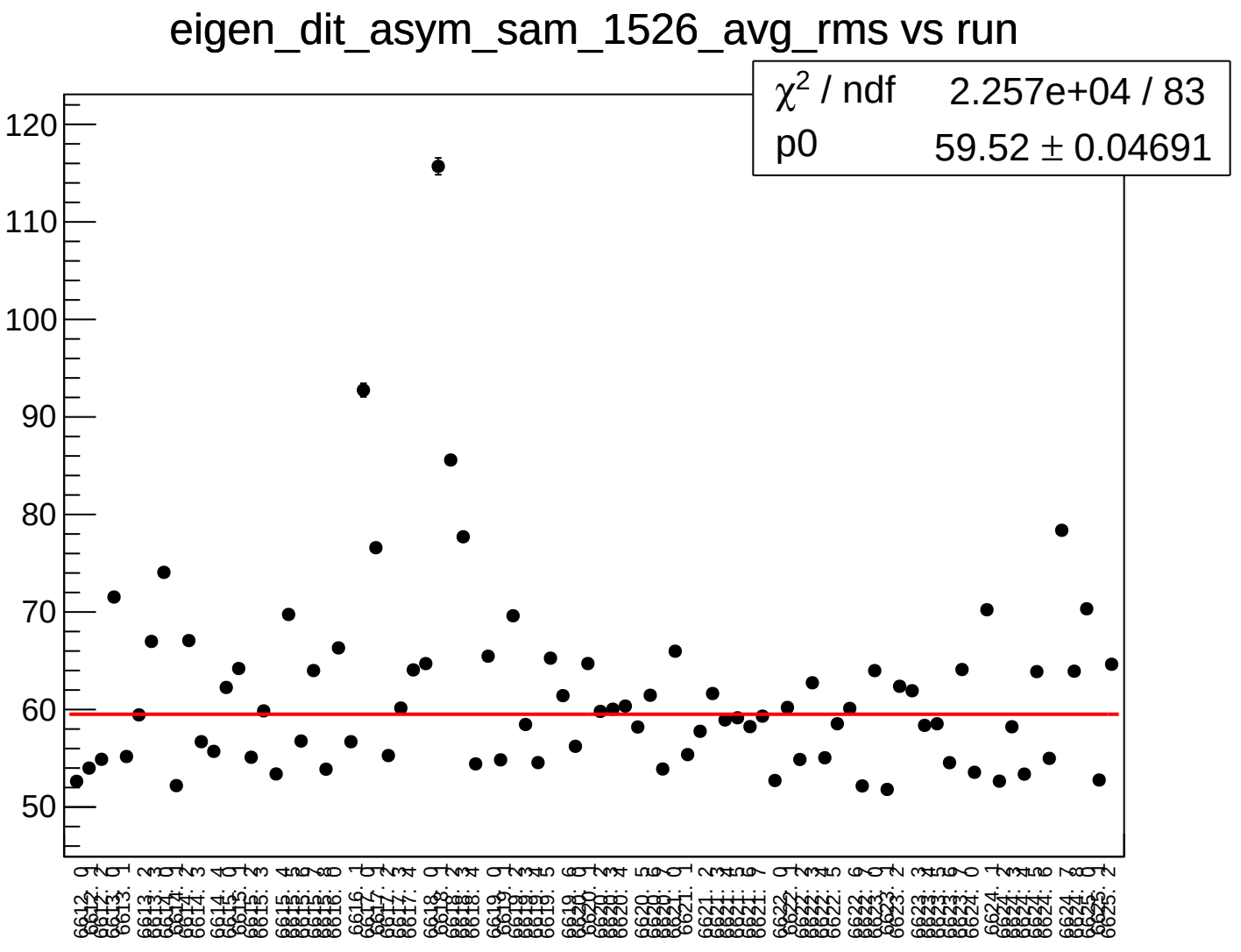

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 75.5 / 83
p0 −632.9 ± 286.3
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 237.7
Std Dev 0
2
1
0
−1
−2

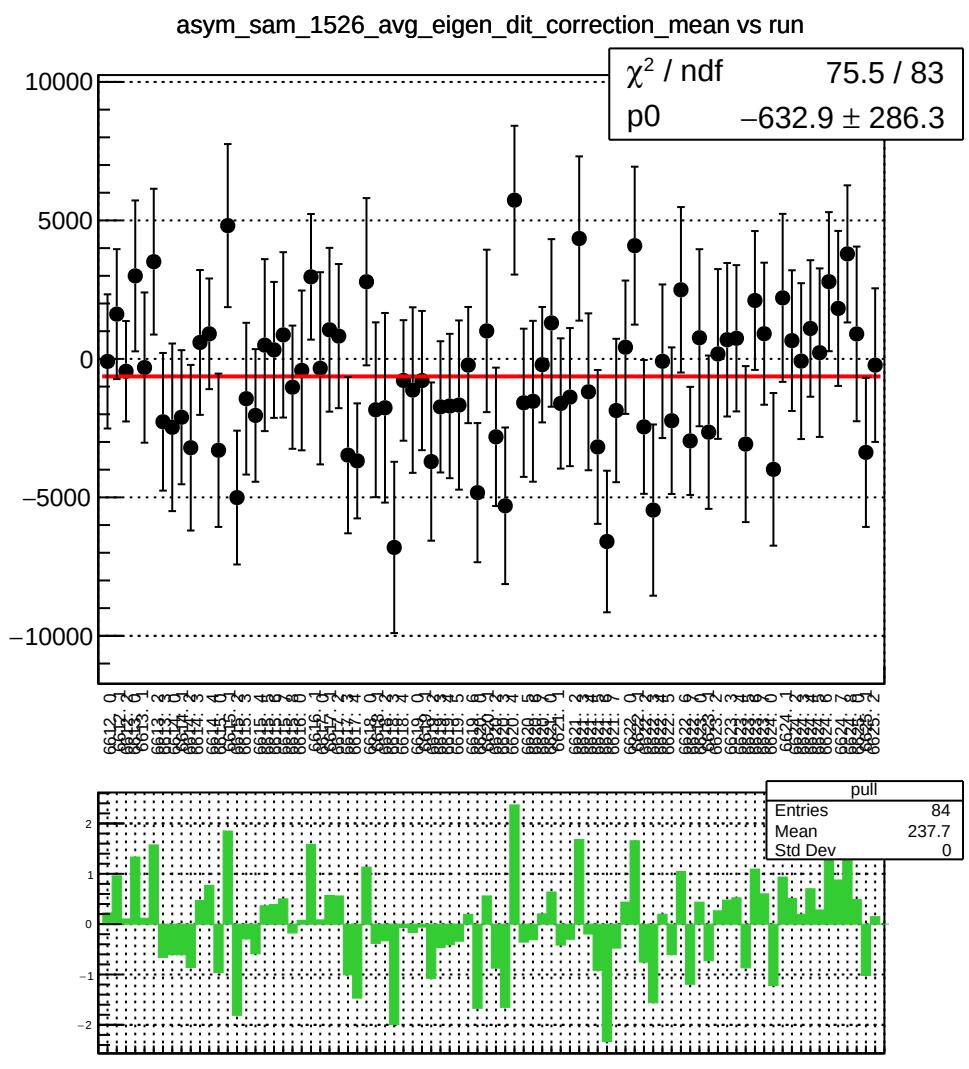

pull1D
Entries 84
Mean 0.006667
Std Dev 0.948
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

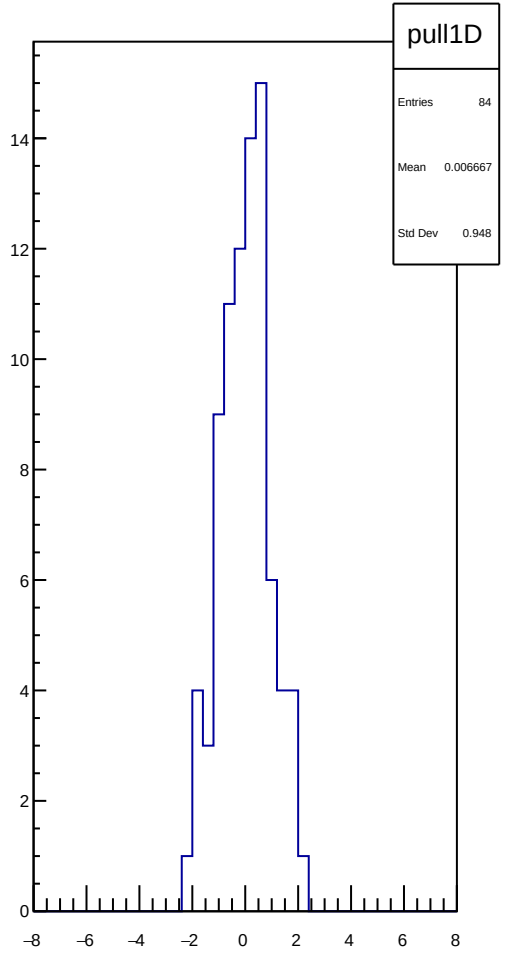

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 1.257e+04 / 83
p0 257.7 ± 0.2025
340
320
300
280
260
240
220

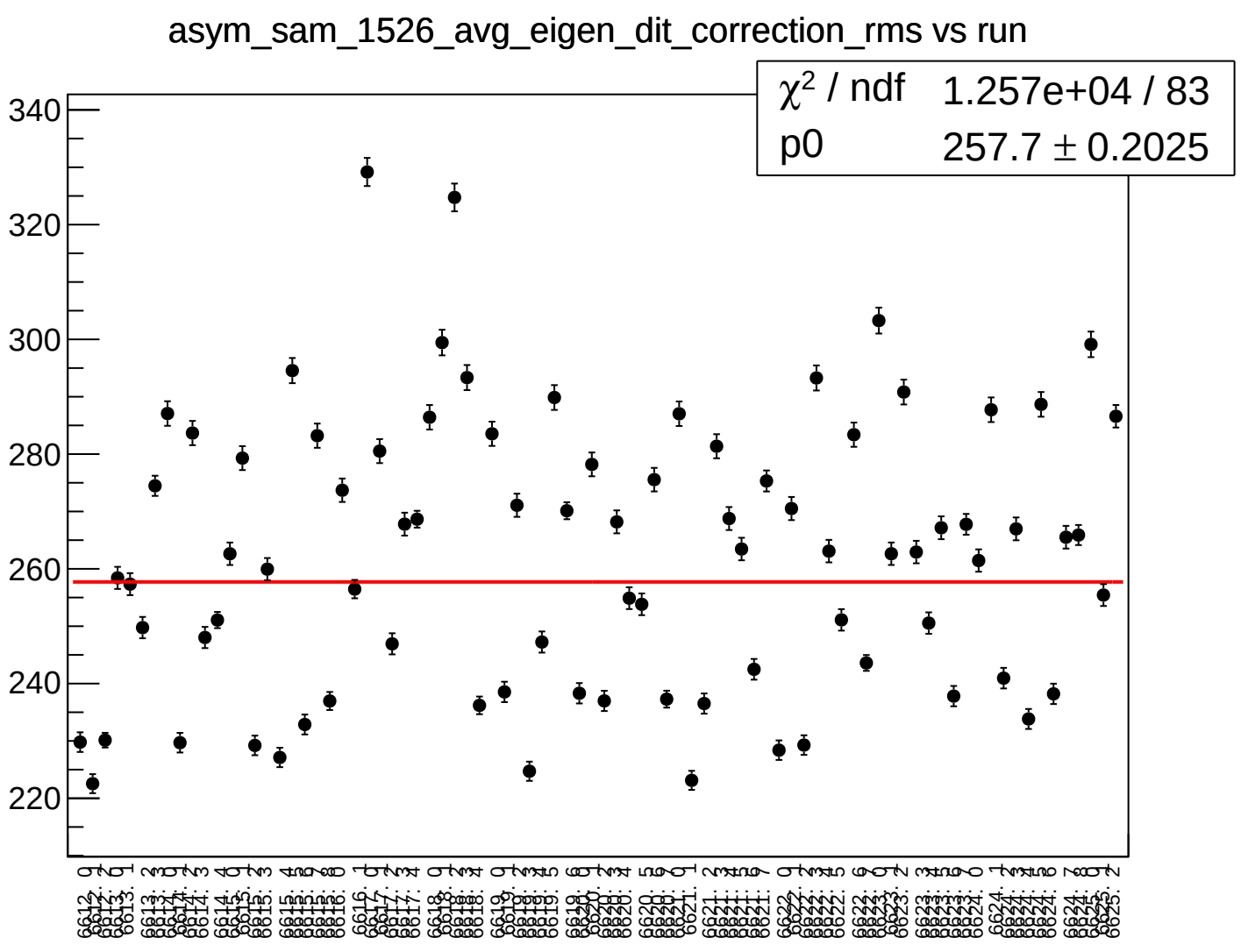

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 76.57 / 83
p0 106.9 ± 66.33
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 144.1
Std Dev 0
2
1
0
−1
−2

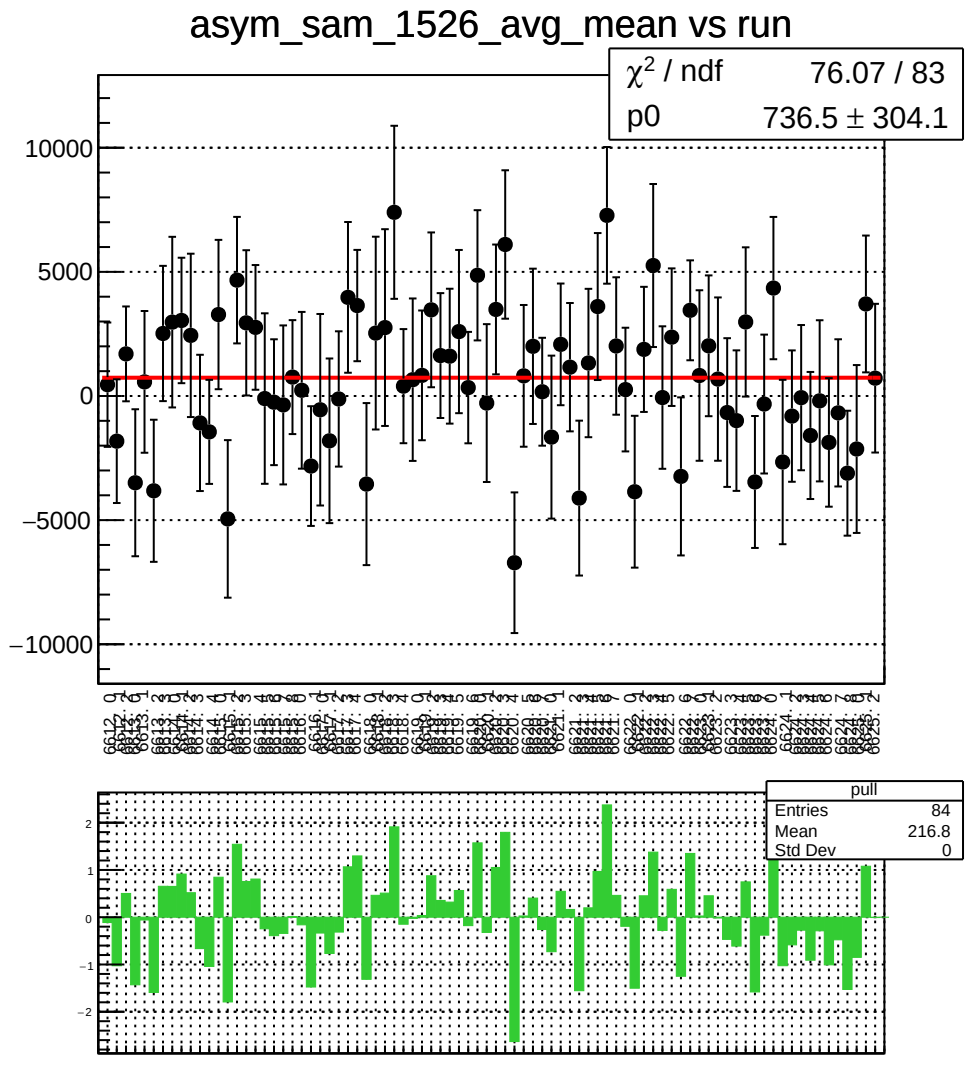

pull1D
Entries 84
Mean −0.006521
Std Dev 0.9547
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

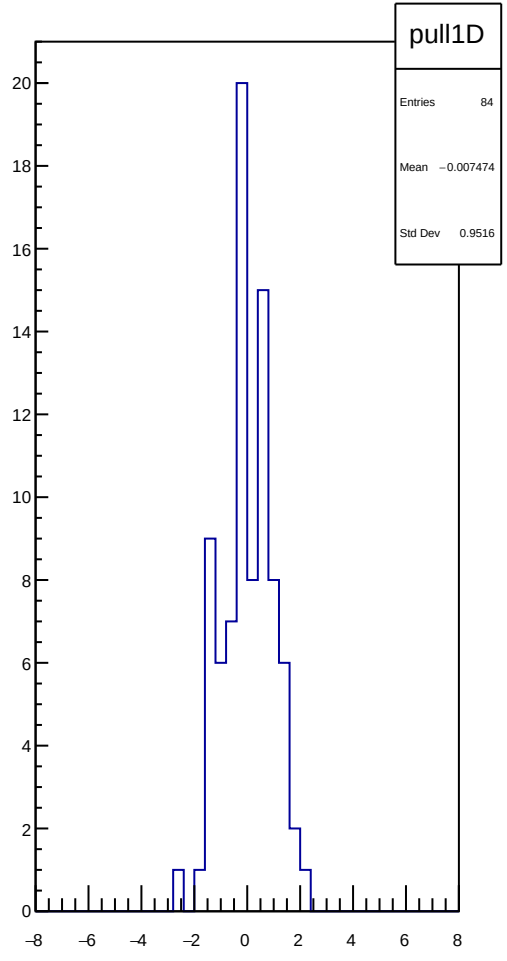

eigen_dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.257e+04 / 83
p0 59.52 ± 0.04691
120
110
100
90
80
70
60
50

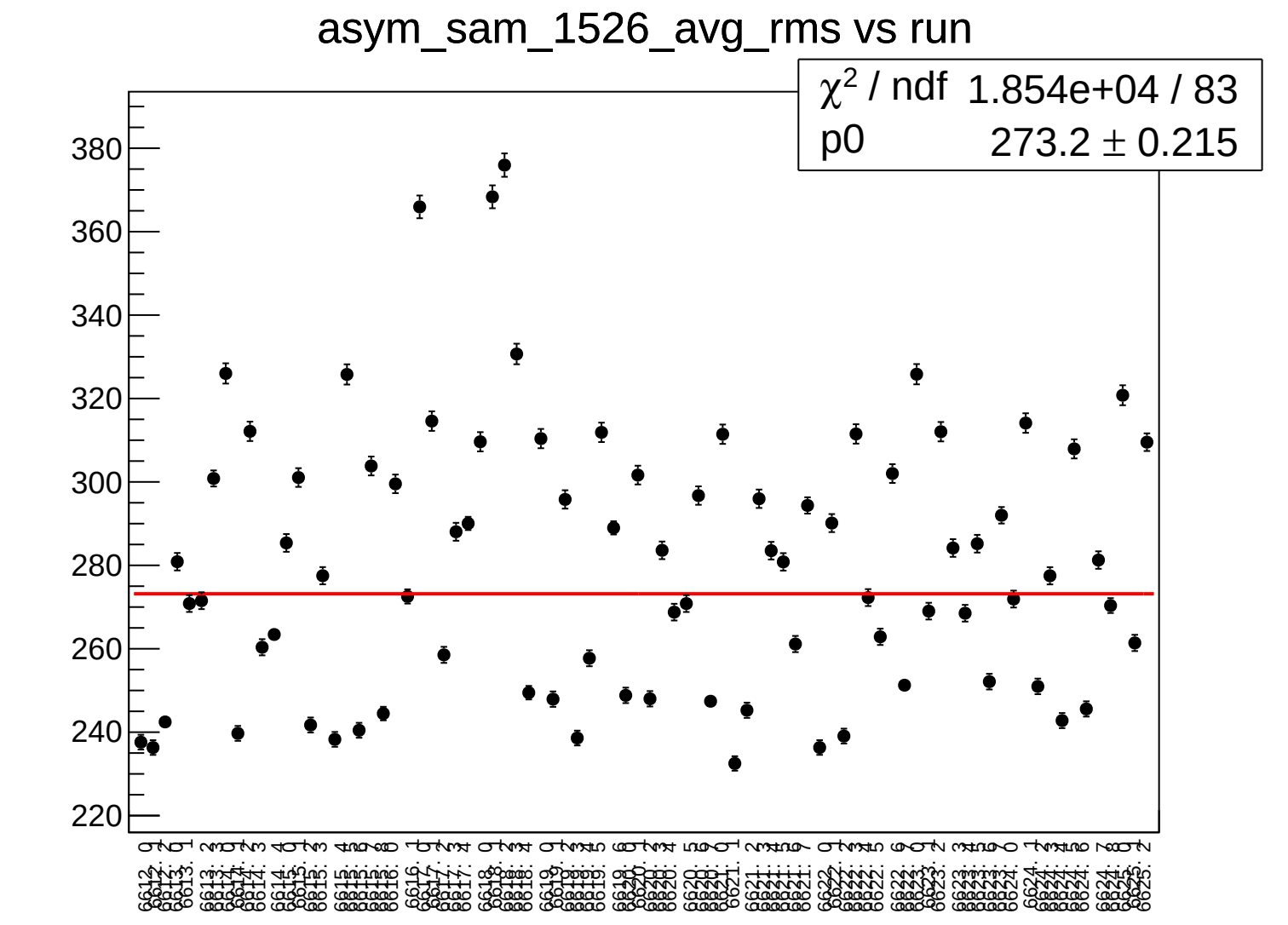

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 75.5 / 83
p0 −632.9 ± 286.3
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 237.7
Std Dev 0
2
1
0
−1
−2

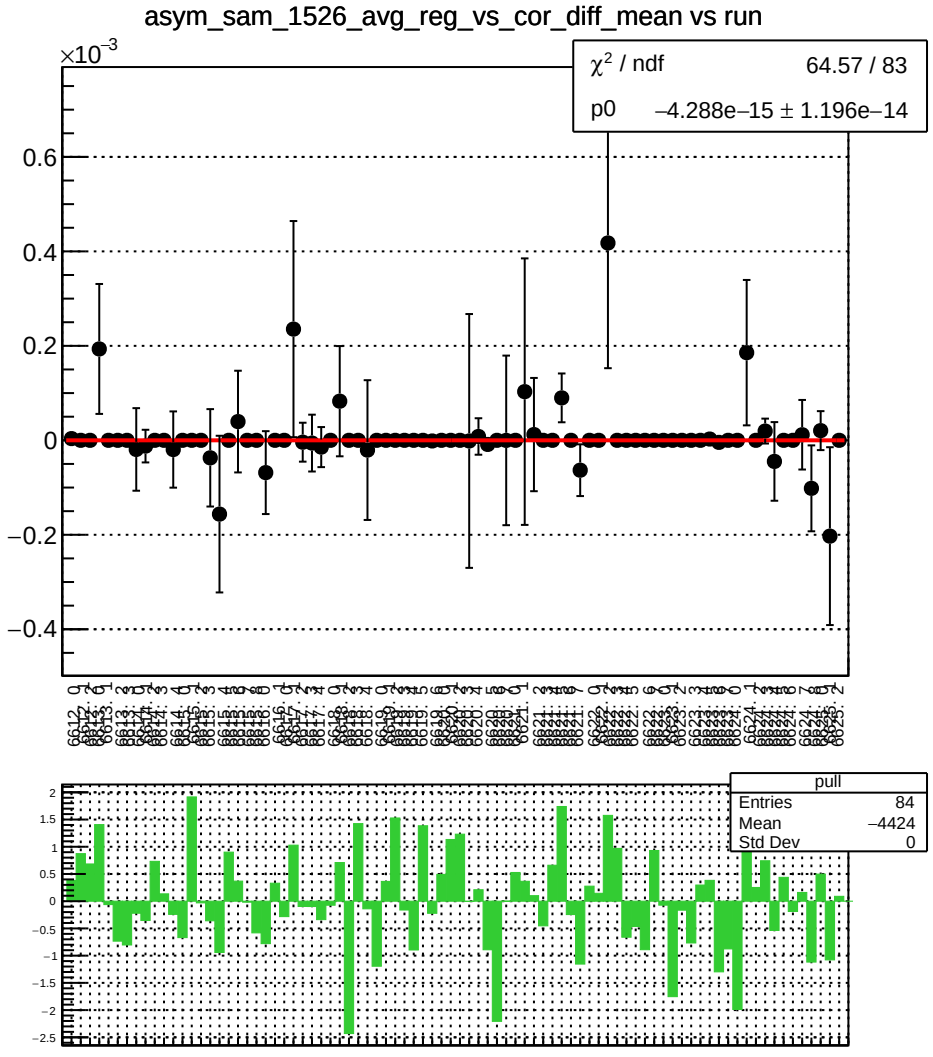

pull1D
Entries 84
Mean 0.006667
Std Dev 0.948
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

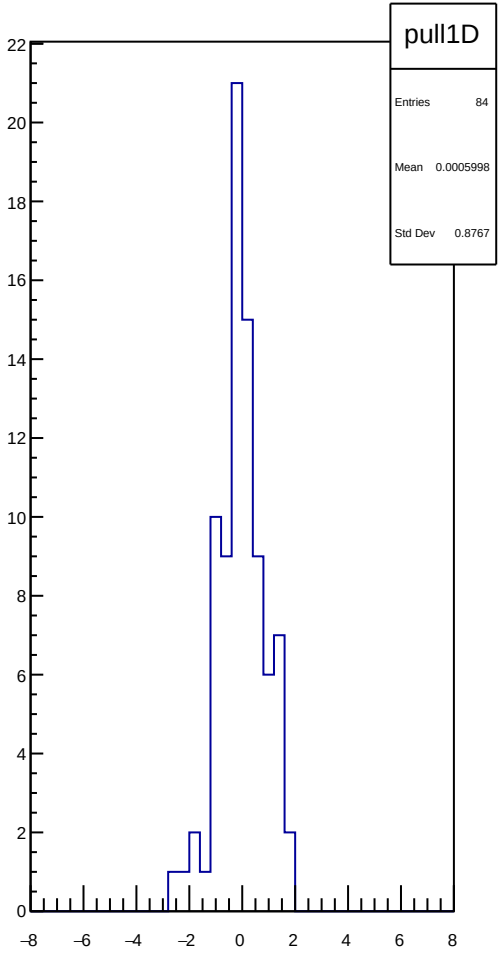

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.257e+04 / 83
p0 257.7 ± 0.2025
340
320
300
280
260
240
220

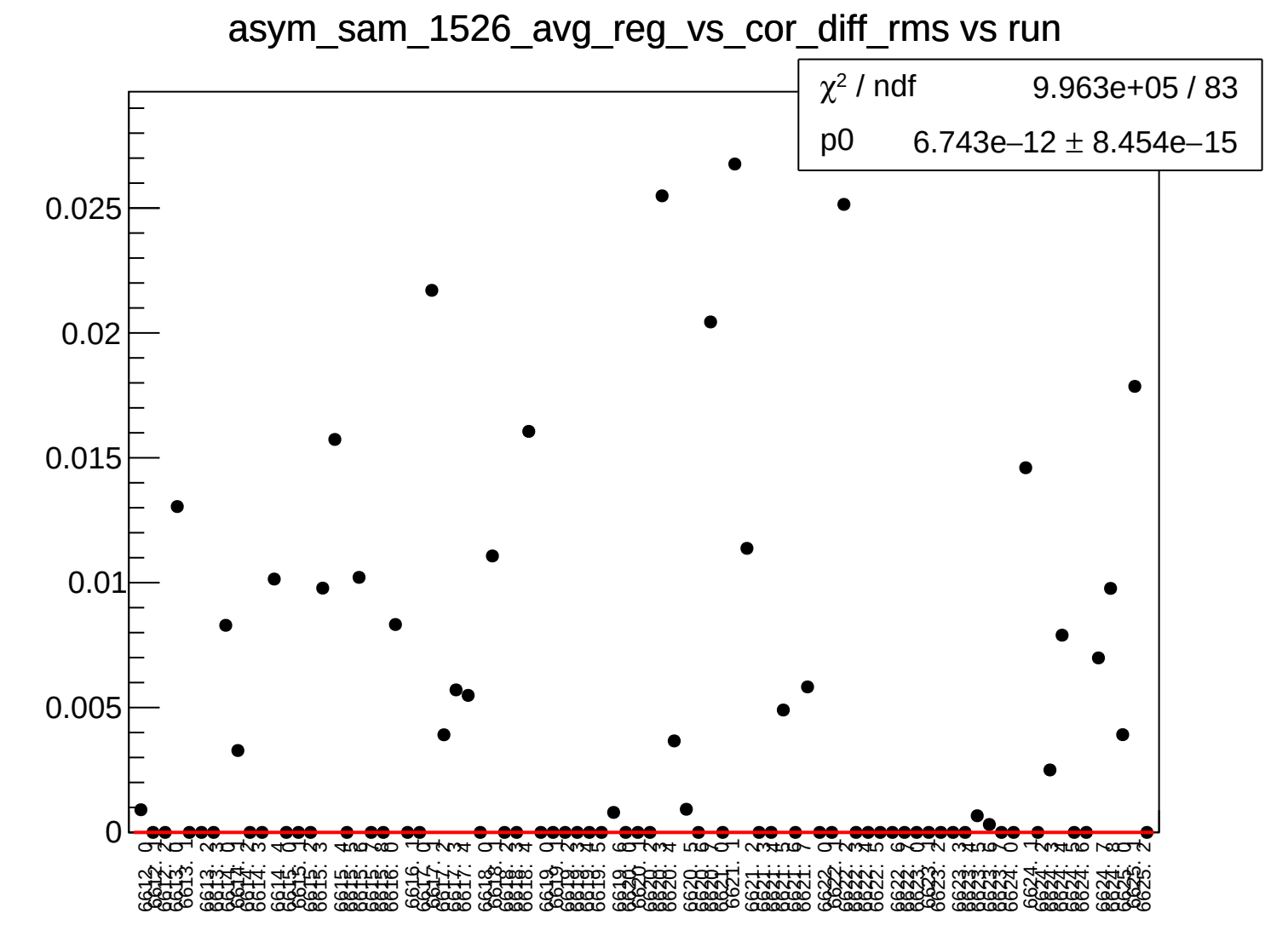

asym_sam_1526_avg_mean vs run
χ² / ndf 76.07 / 83
p0 736.5 ± 304.1
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 216.8
Std Dev 0
2
1
0
−1
−2

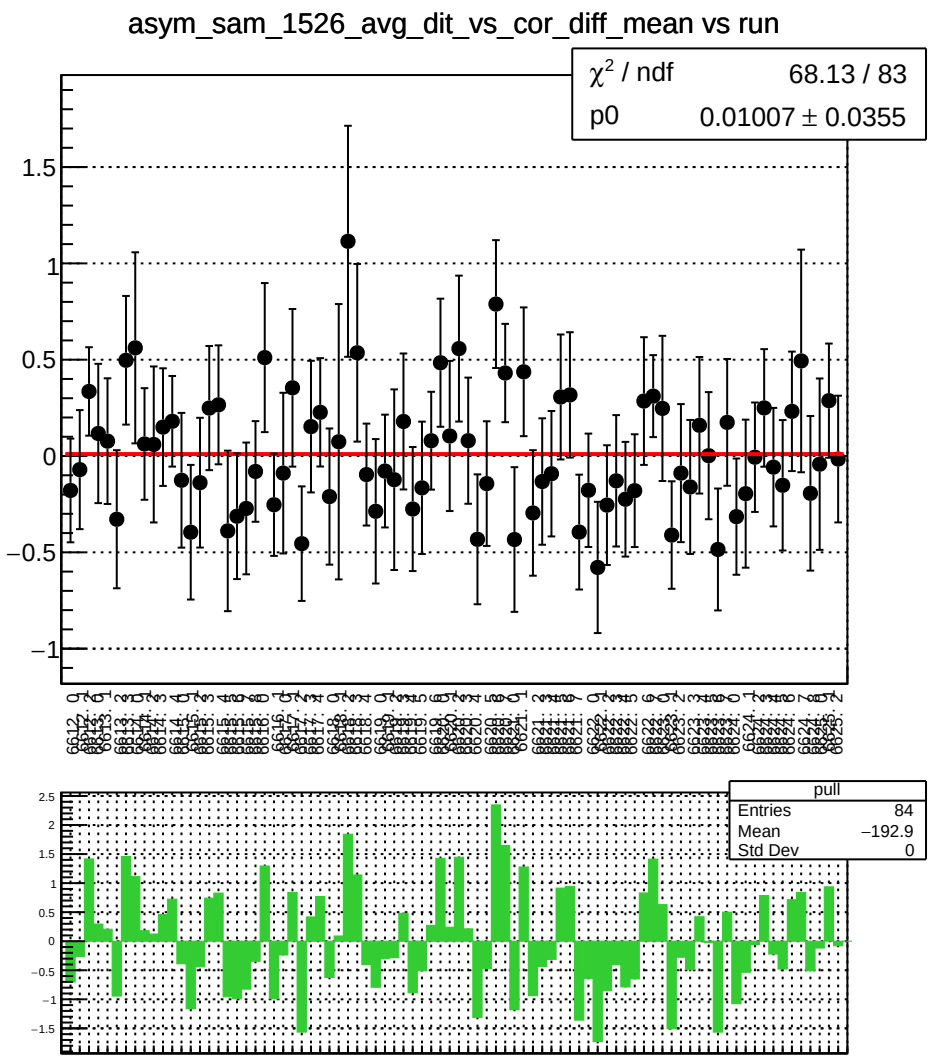

pull1D
Entries 84
Mean −0.007474
Std Dev 0.9516
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

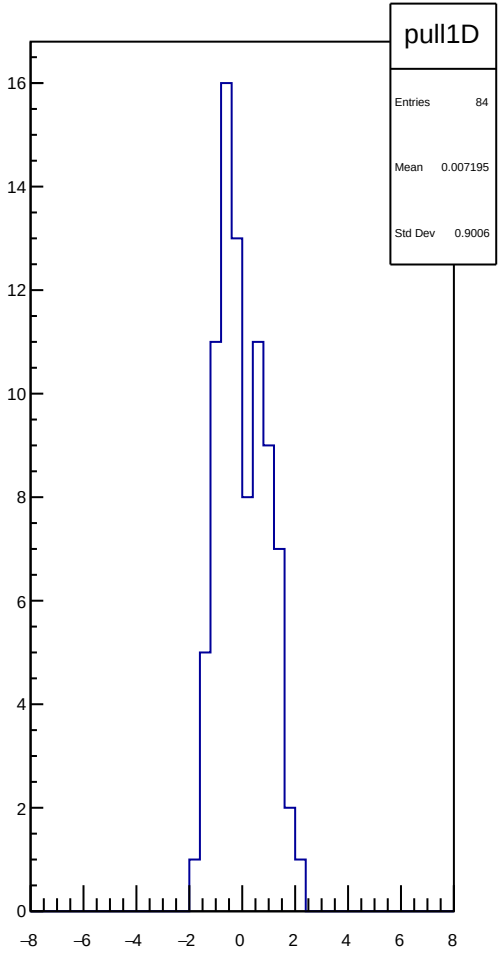

asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.854e+04 / 83
p0 273.2 ± 0.215
380
360
340
320
300
280
260
240
220

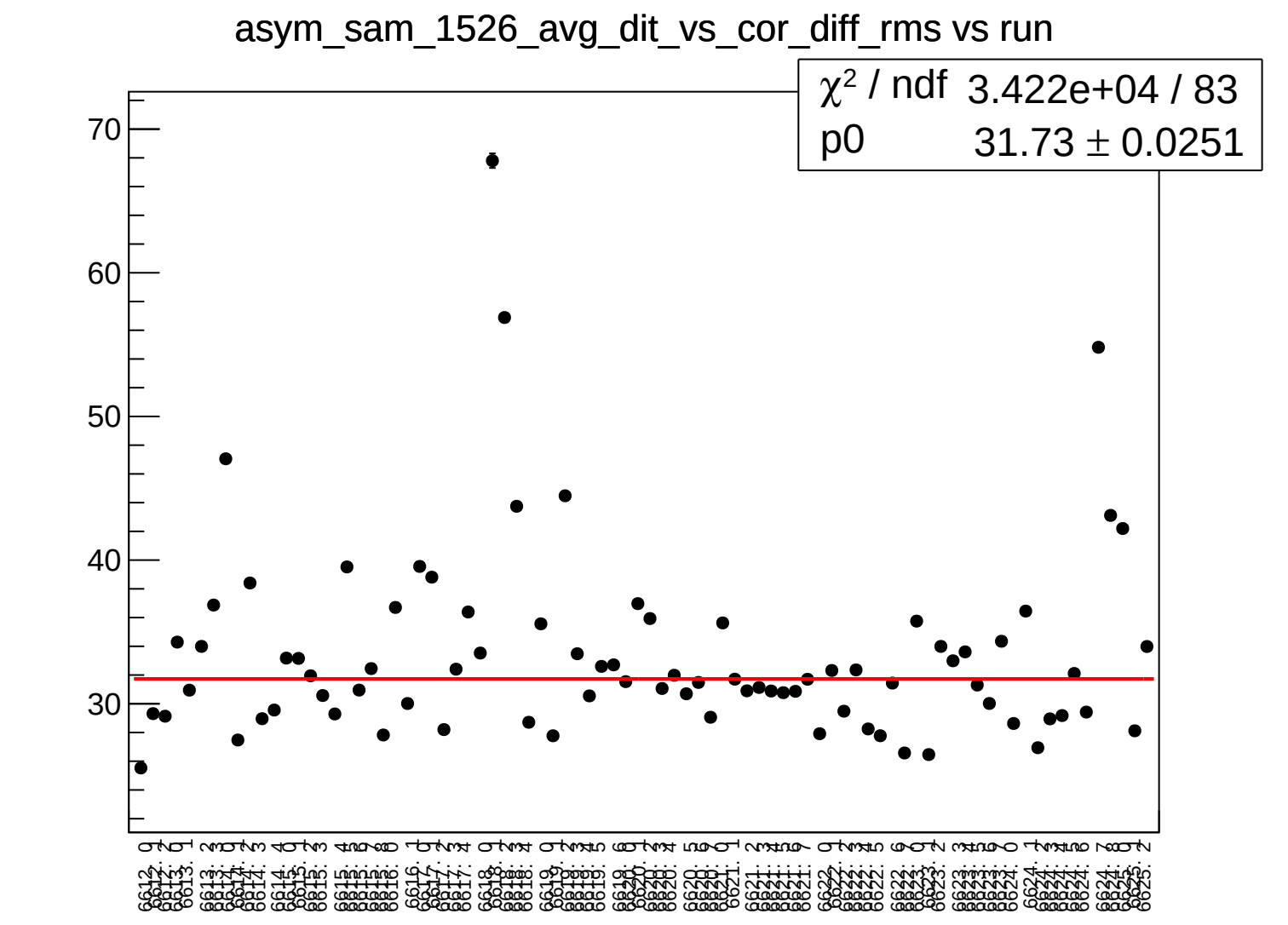

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 64.57 / 83
p0 −4.288e−15 ± 1.196e−14
pull
Entries 84
Mean −4424
Std Dev 0

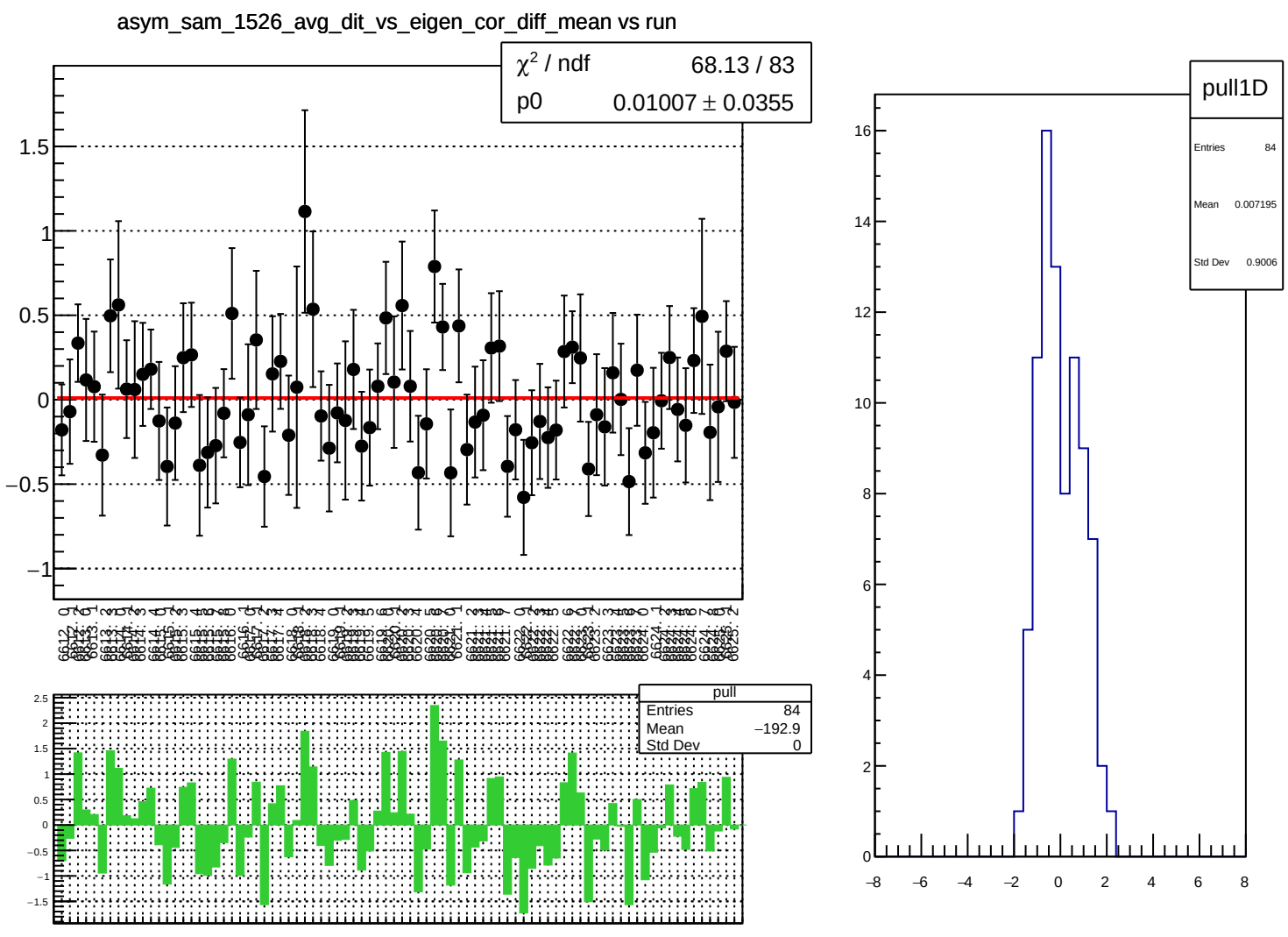

pull1D
Entries 84
Mean 0.0005998
Std Dev 0.8767

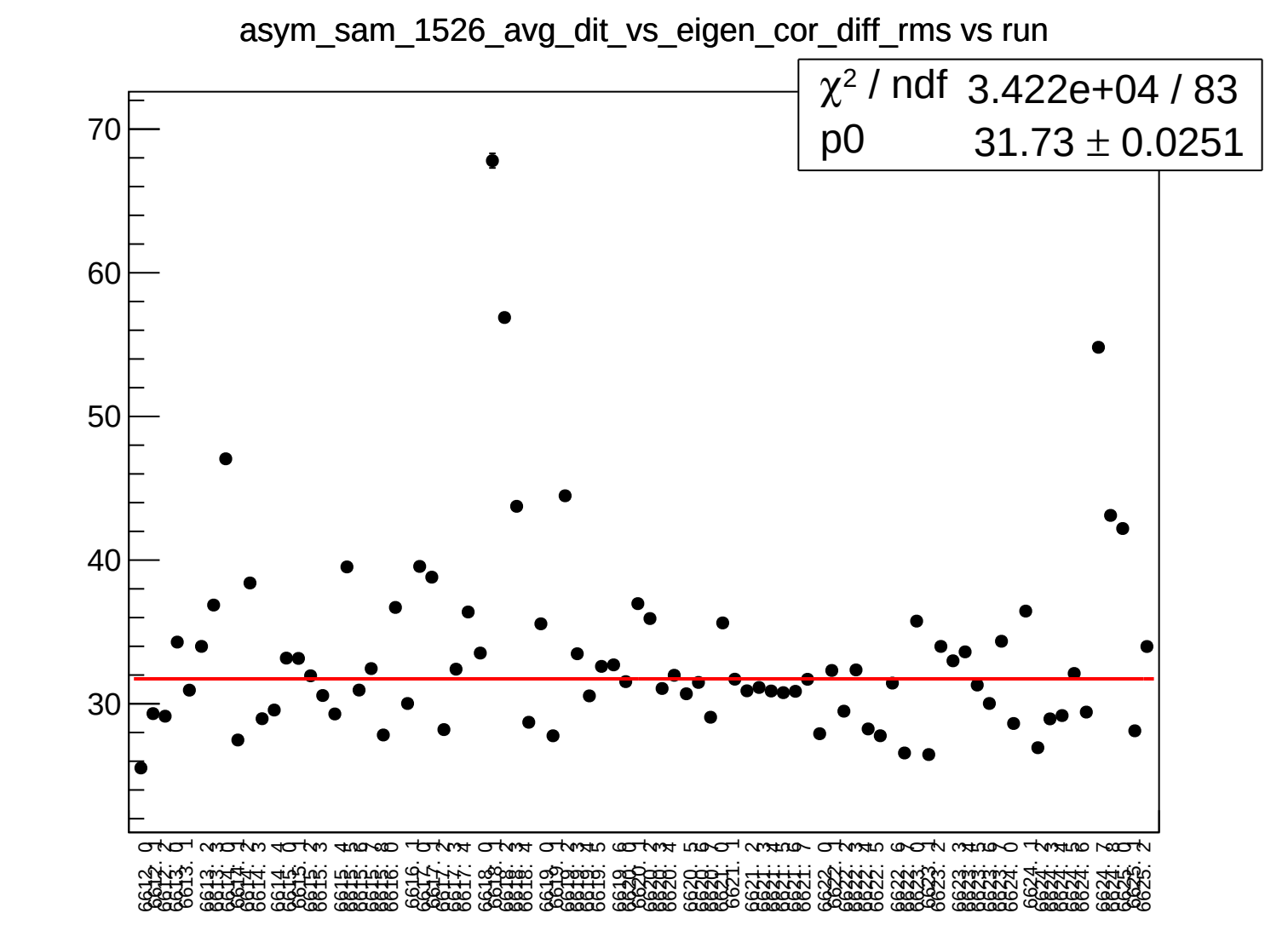

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.963e+05 / 83
p0 6.743e−12 ± 8.454e−15
0.025
0.02
0.015
0.01
0.005
0

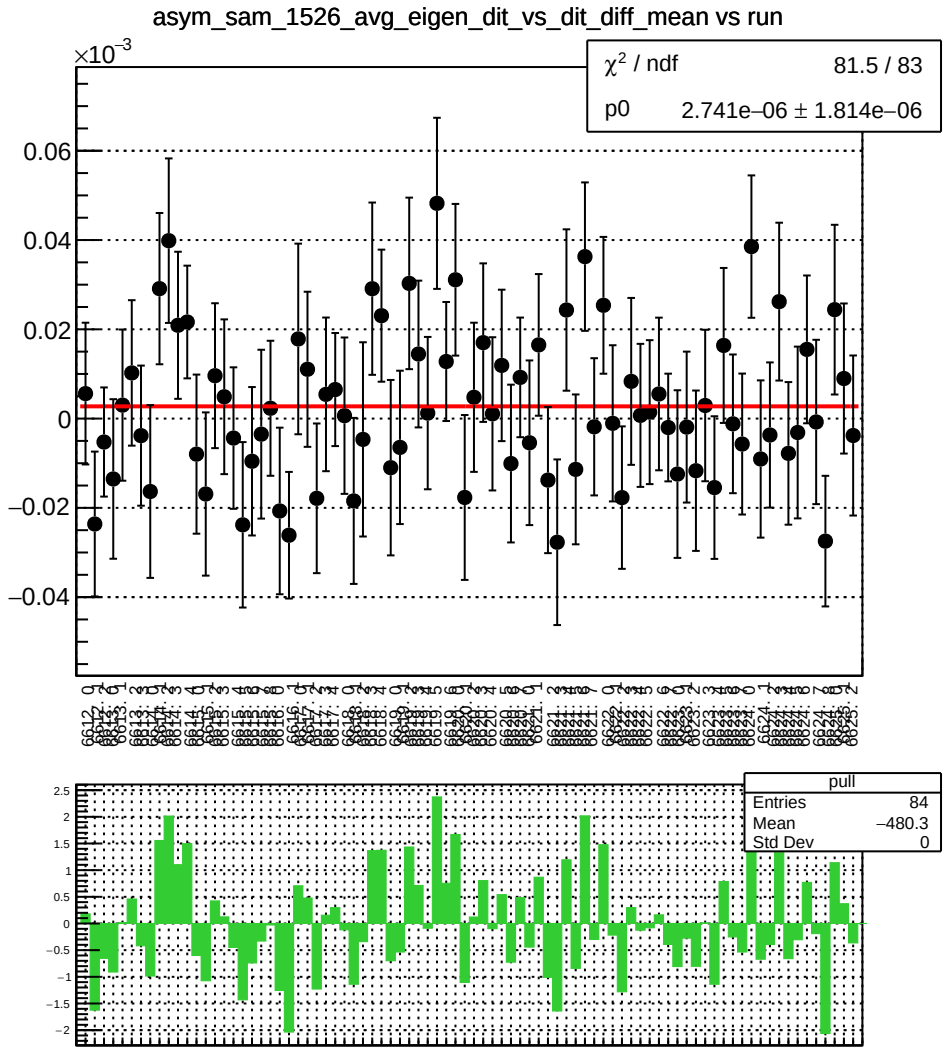

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.13 / 83
p0 0.01007 ± 0.0355
pull
Entries 84
Mean −192.9
Std Dev 0

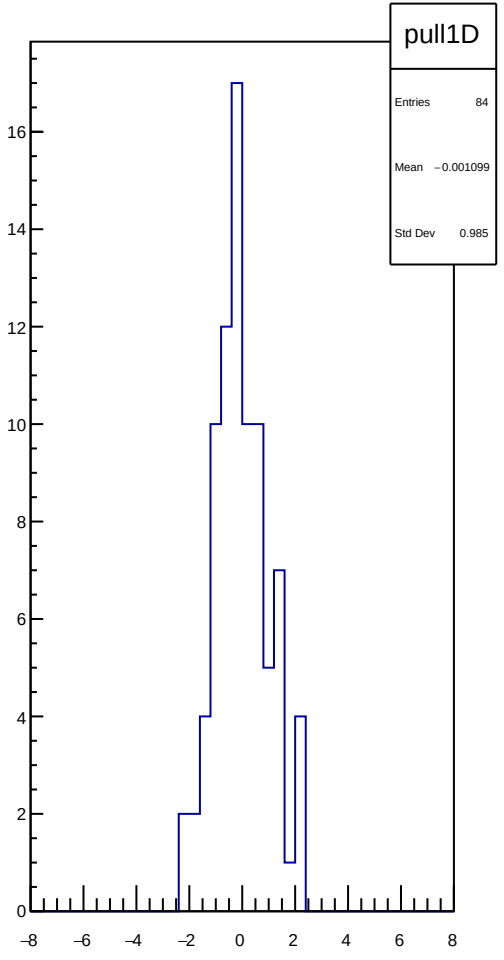

pull1D
Entries 84
Mean 0.007195
Std Dev 0.9006

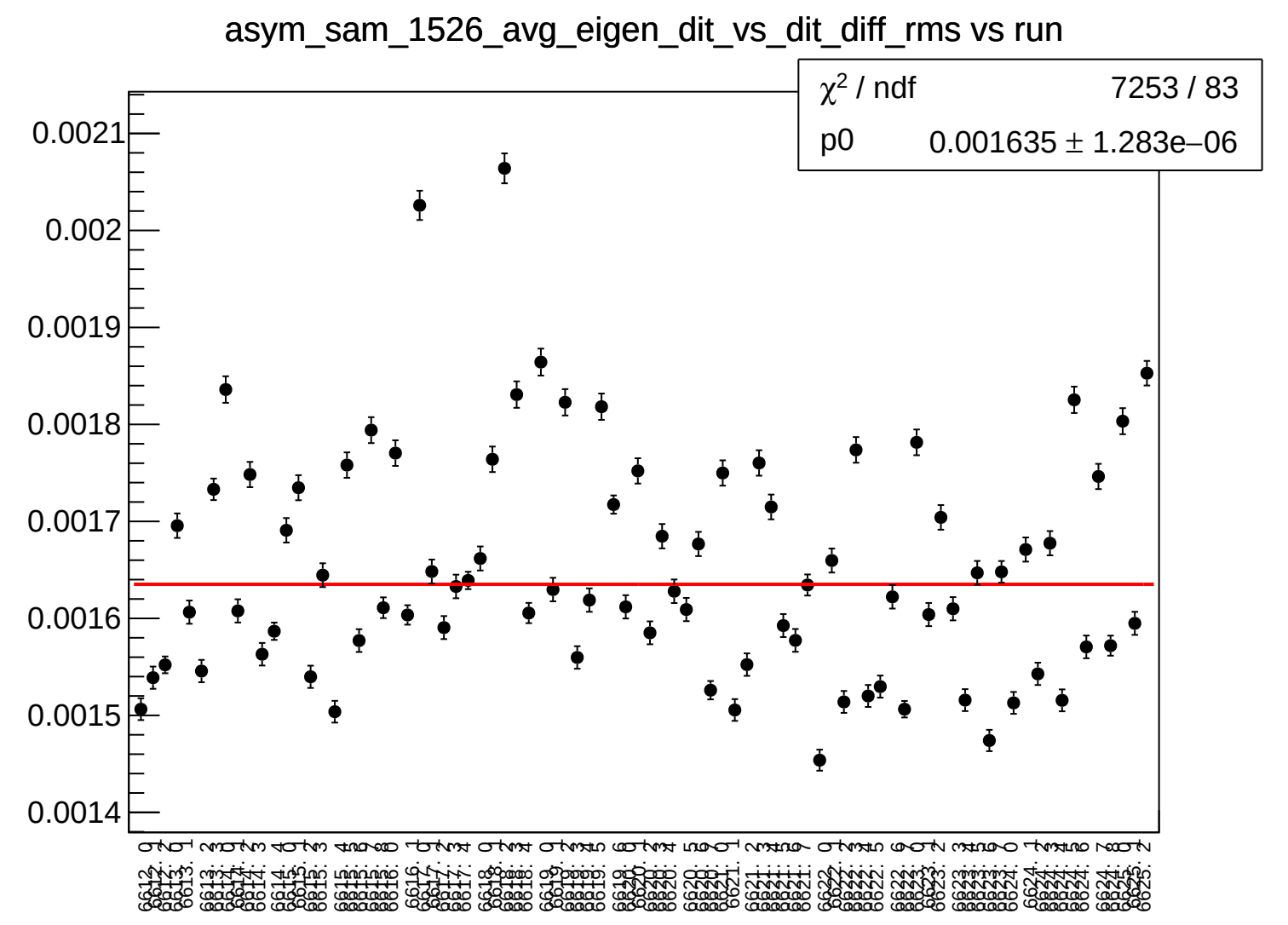

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.422e+04 / 83
p0 31.73 ± 0.0251
70
60
50
40
30

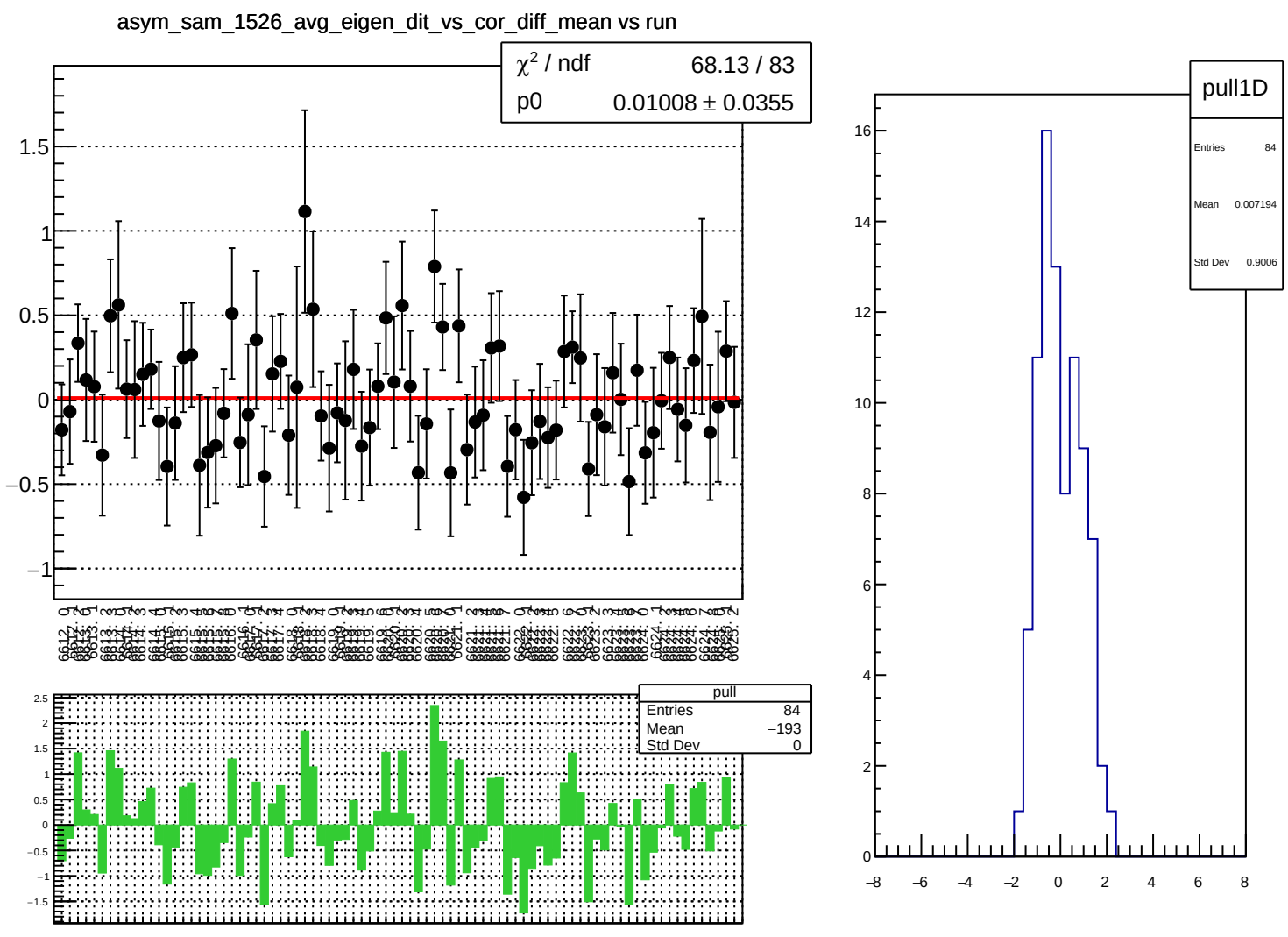

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.13 / 83
p0 0.01007 ± 0.0355
pull
Entries 84
Mean −192.9
Std Dev 0
pull1D
Entries 84
Mean 0.007195
Std Dev 0.9006

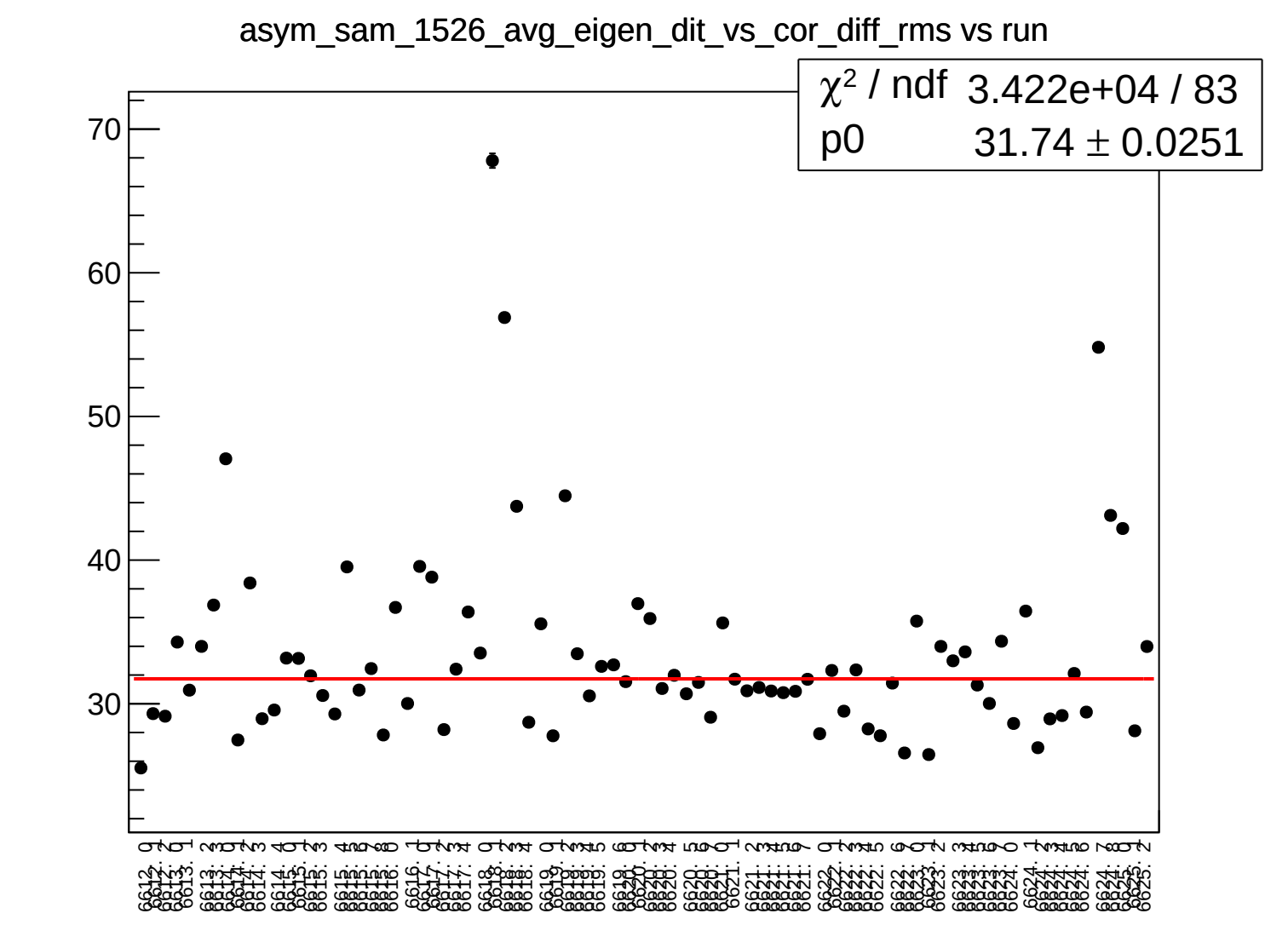

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.422e+04 / 83
p0 31.73 ± 0.0251
70
60
50
40
30

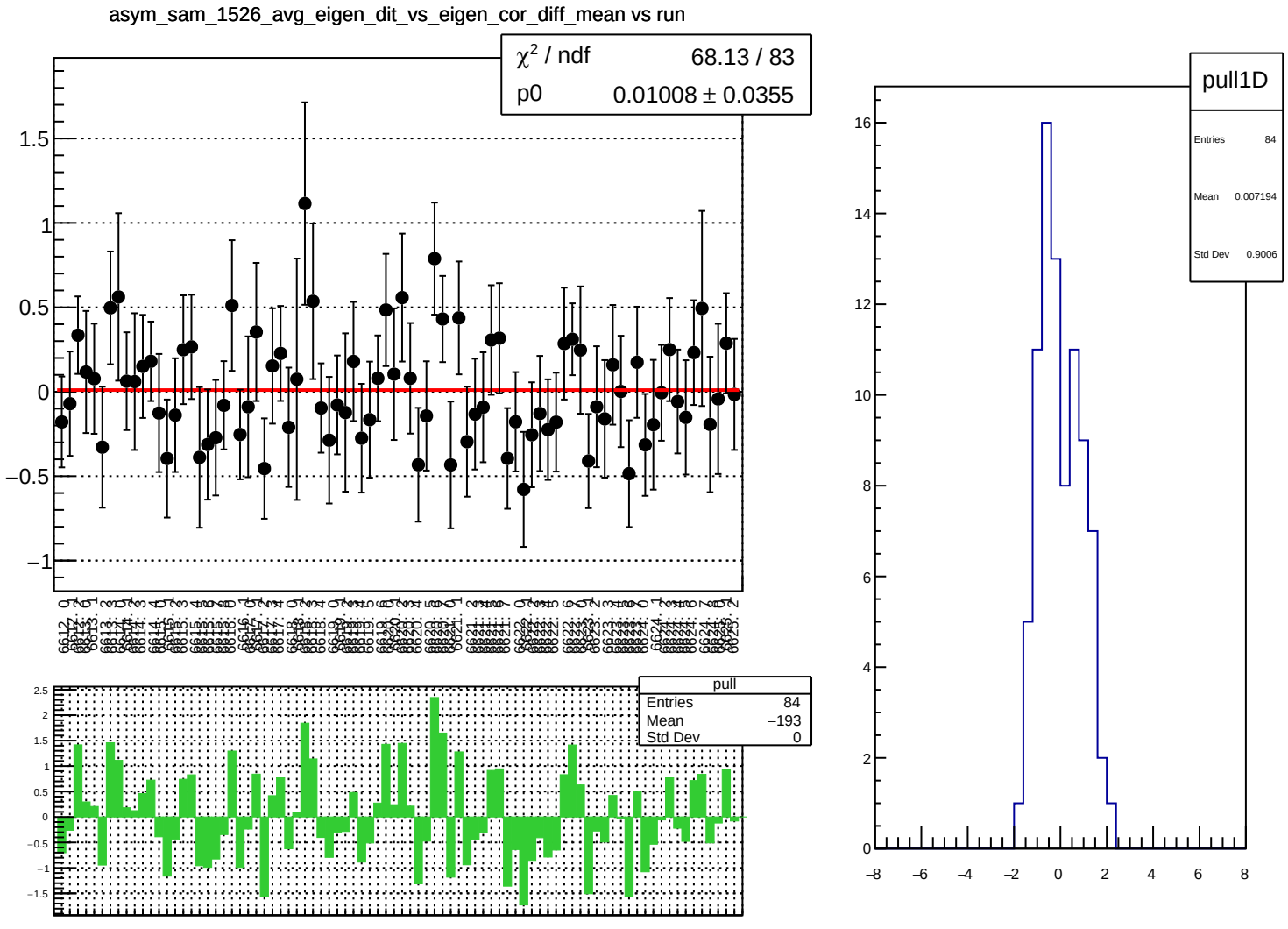

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.5 / 83
p0 2.741e−06 ± 1.814e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 84
Mean −480.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

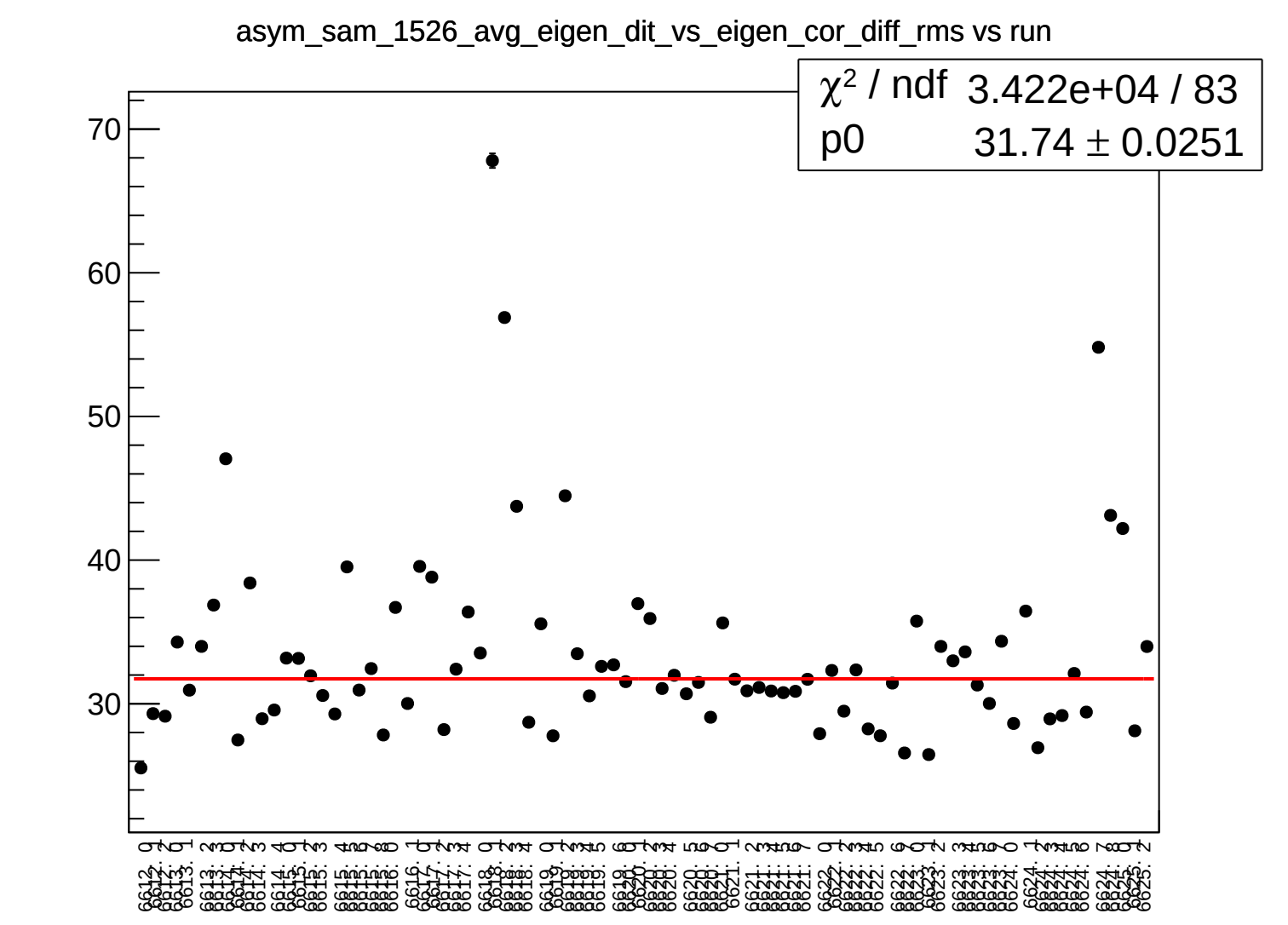

pull1D
Entries 84
Mean −0.001099
Std Dev 0.985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

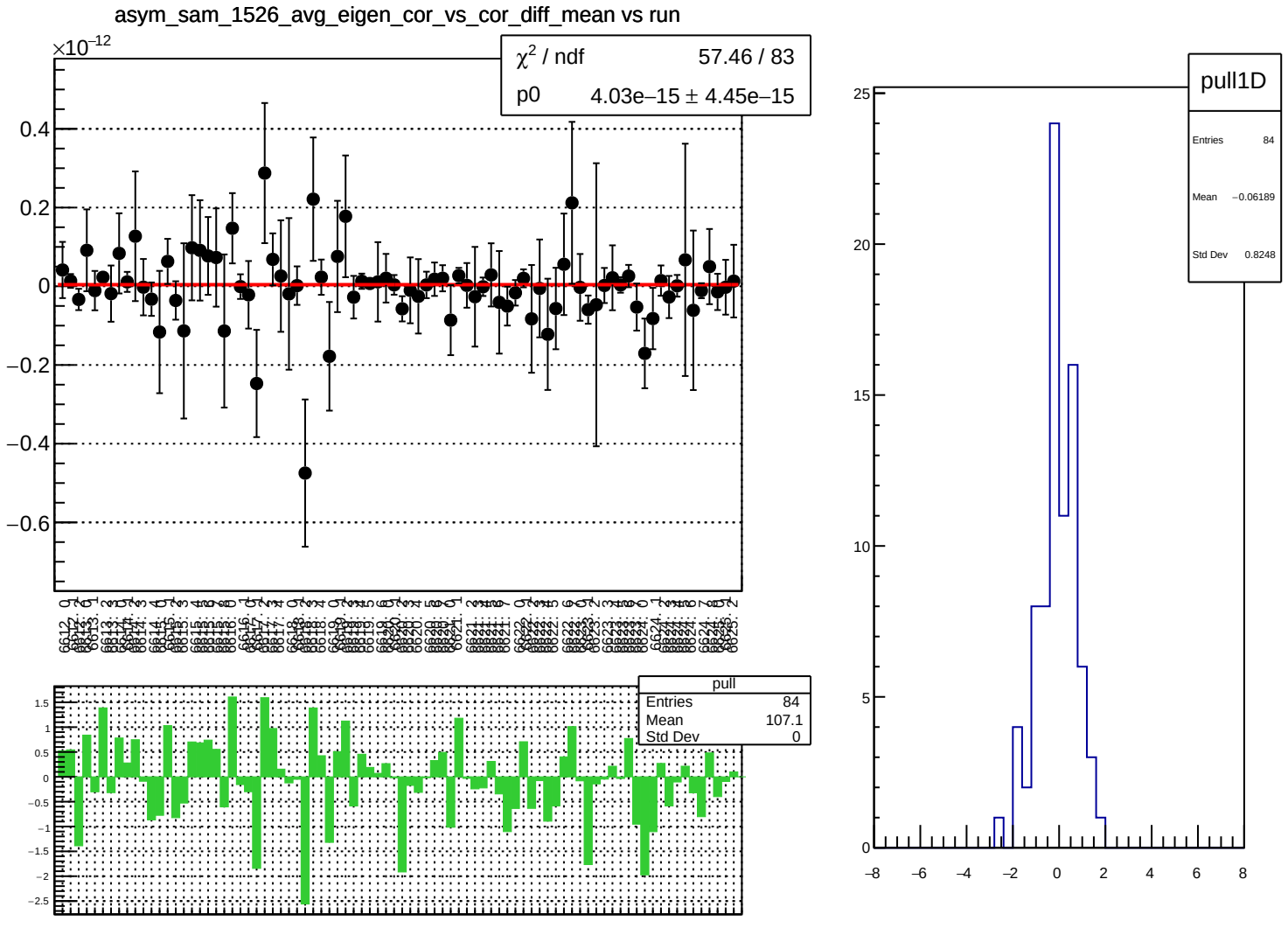

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7253 / 83
p0 0.001635 ± 1.283e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

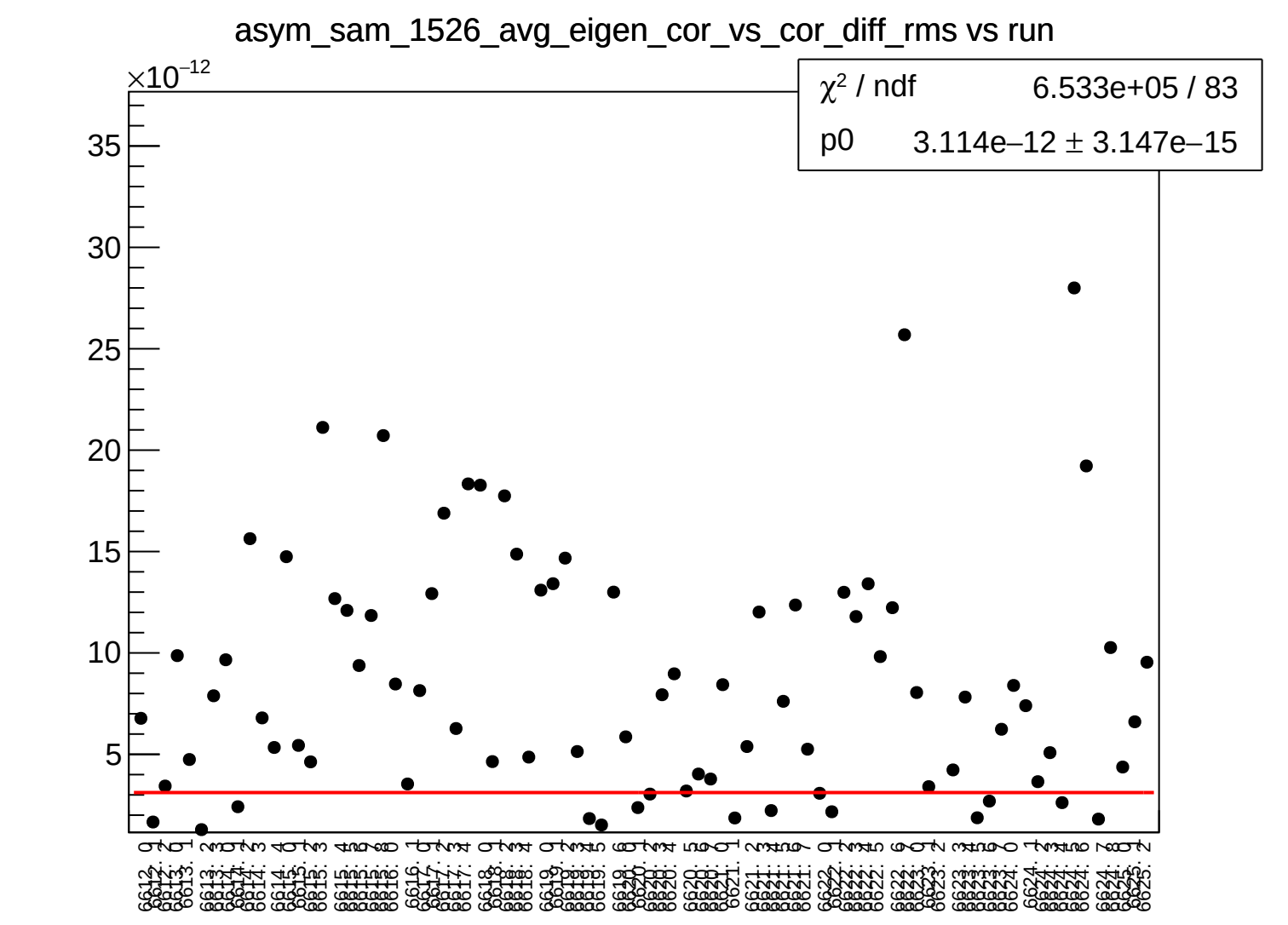

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.13 / 83
p0 0.01008 ± 0.0355
pull
Entries 84
Mean −193
Std Dev 0
pull1D
Entries 84
Mean 0.007194
Std Dev 0.9006

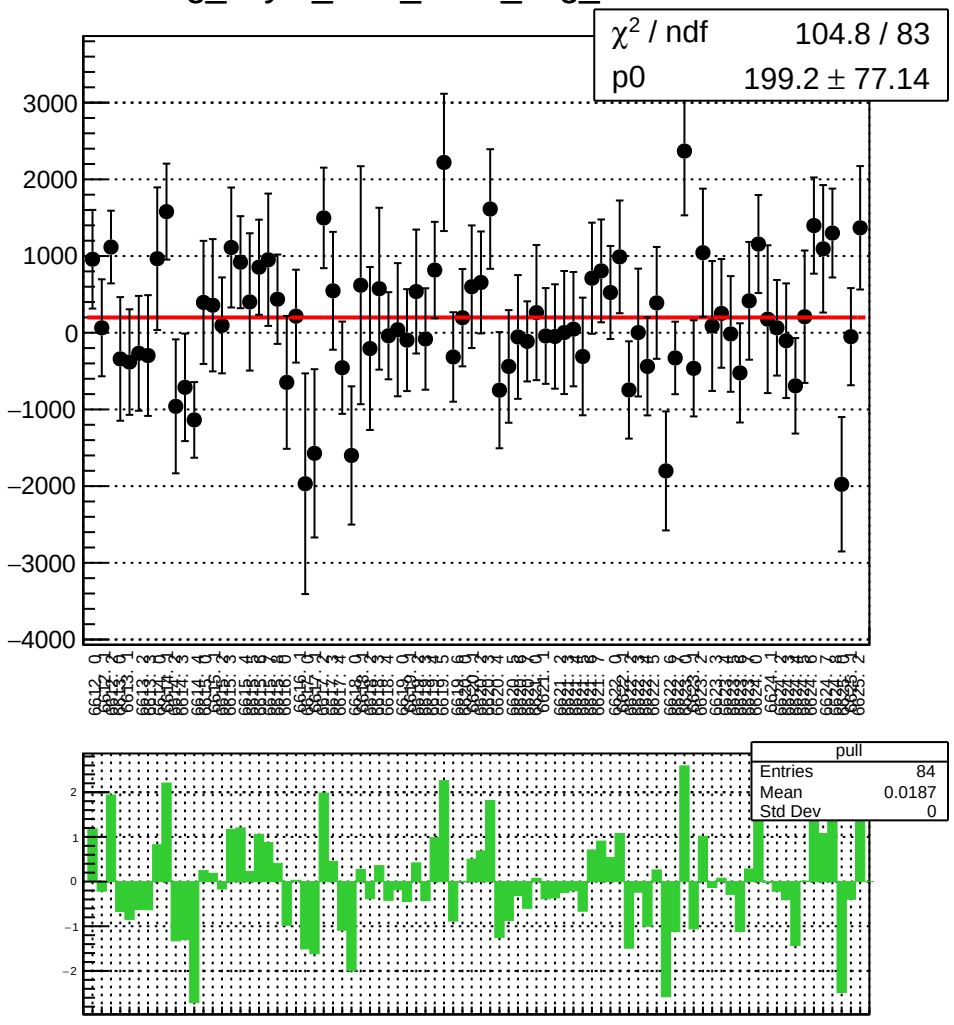

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.422e+04 / 83
p0 31.74 ± 0.0251
70
60
50
40
30

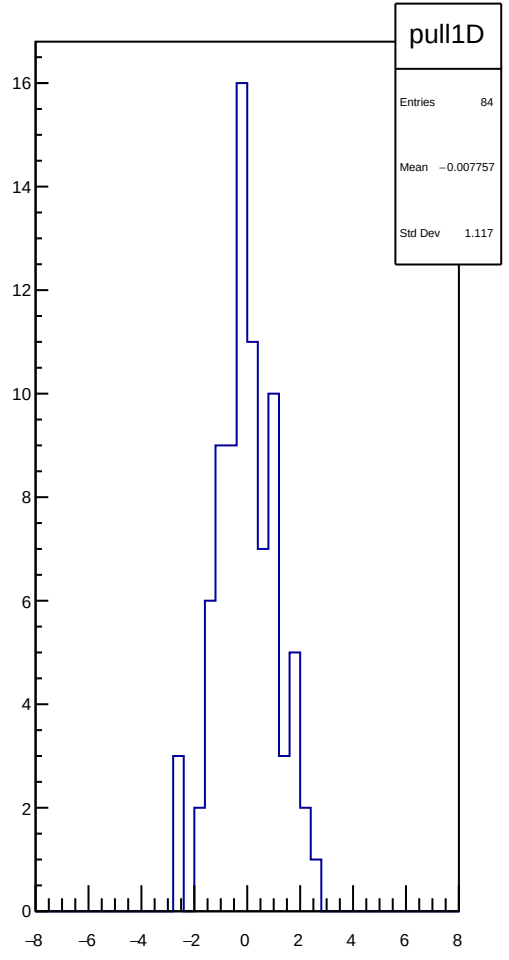

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.13 / 83
p0 0.01008 ± 0.0355
pull
Entries 84
Mean −193
Std Dev 0
pull1D
Entries 84
Mean 0.007194
Std Dev 0.9006

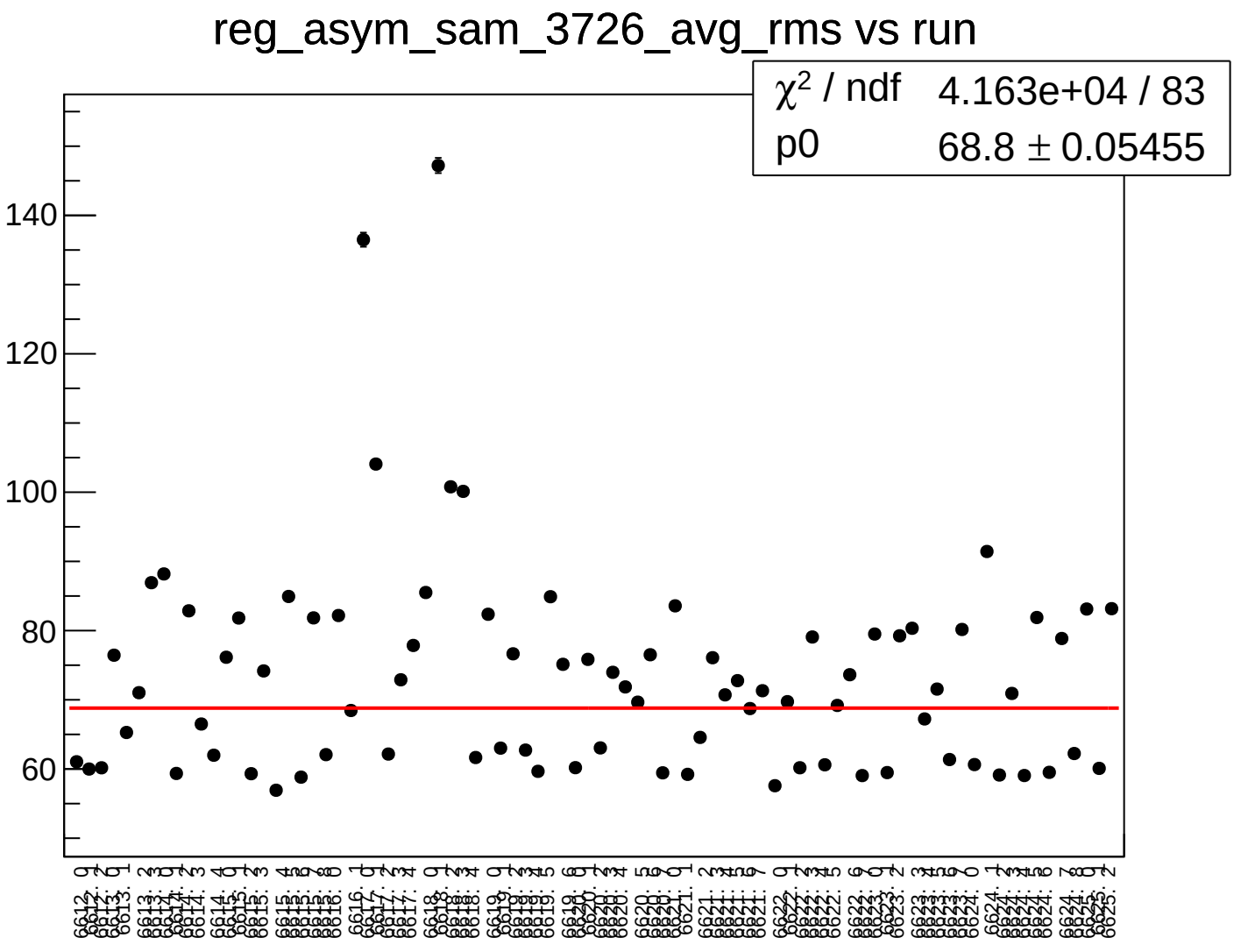

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.422e+04 / 83
p0 31.74 ± 0.0251
70
60
50
40
30

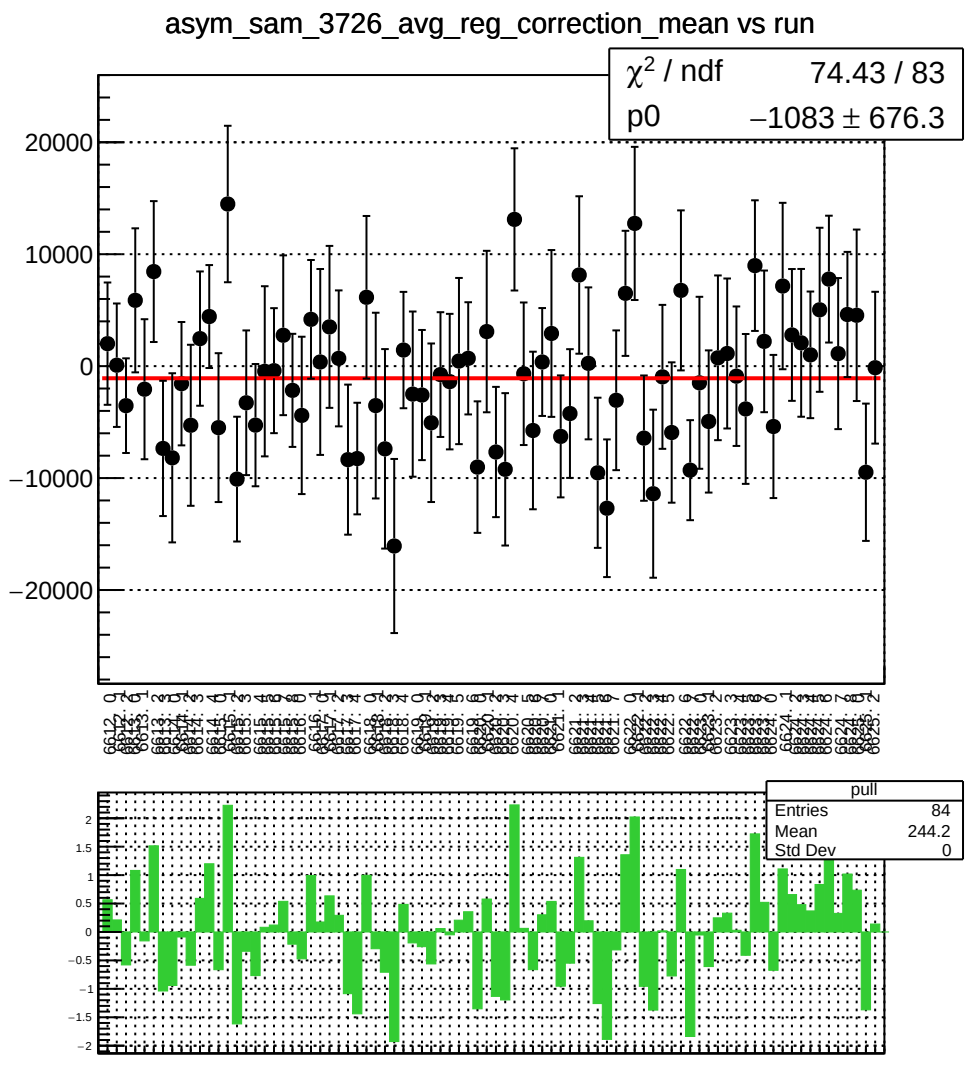

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 57.46 / 83
p0 4.03e−15 ± 4.45e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 84
Mean 107.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 84
Mean −0.06189
Std Dev 0.8248
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

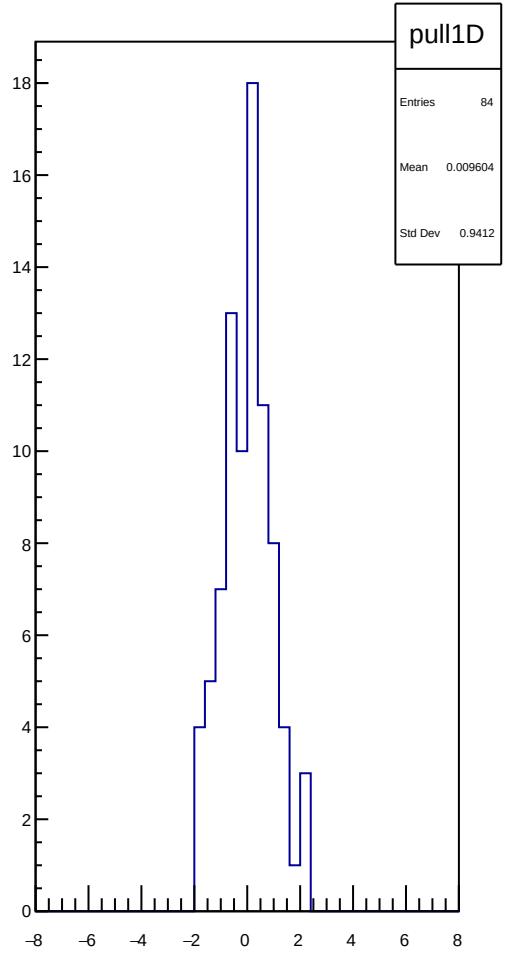

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.533e+05 / 83
p0 3.114e−12 ± 3.147e−15
35
30
25
20
15
10
5

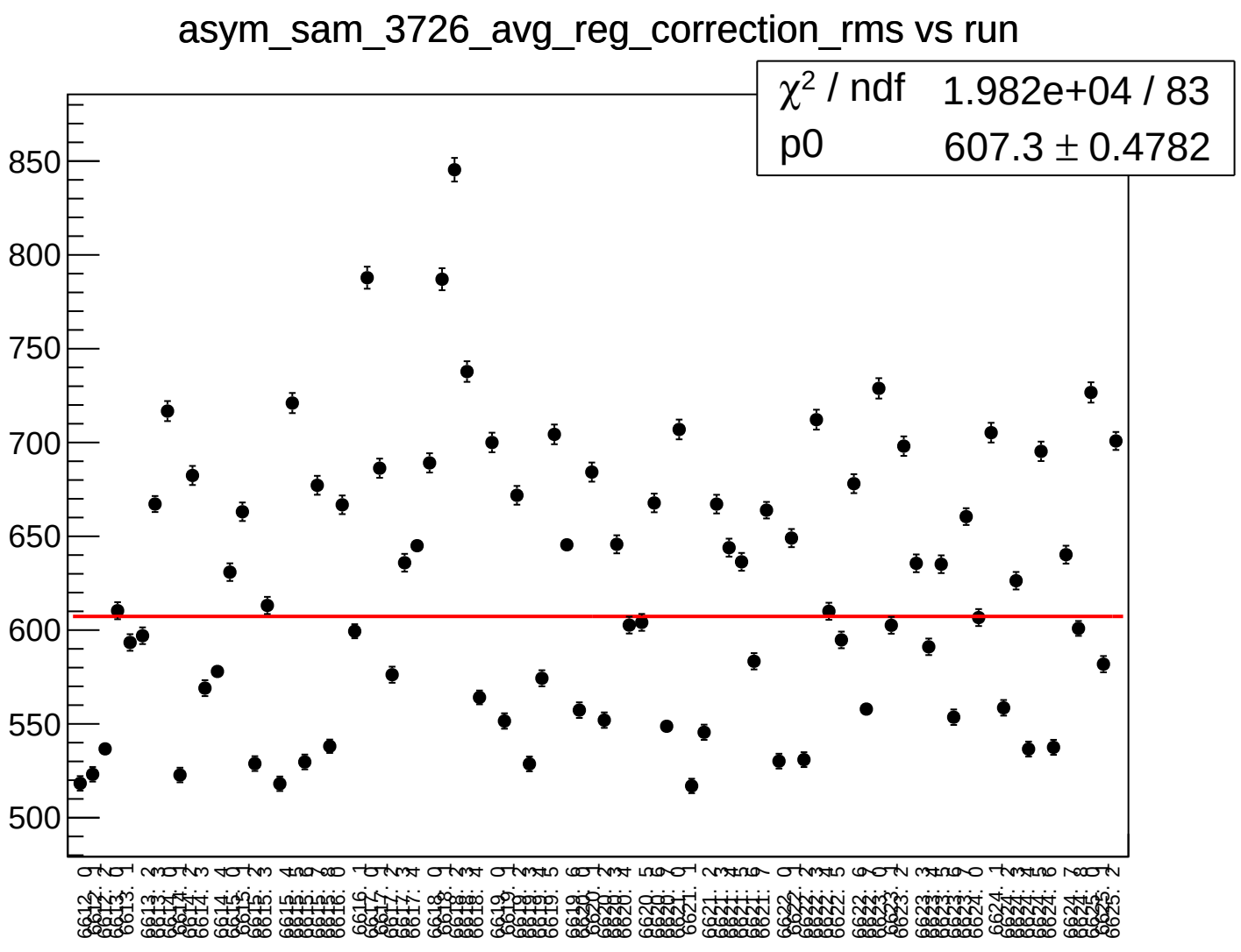

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 104.8 / 83
p0 199.2 ± 77.14
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 84
Mean 0.0187
Std Dev 0
2
1
0
−1
−2

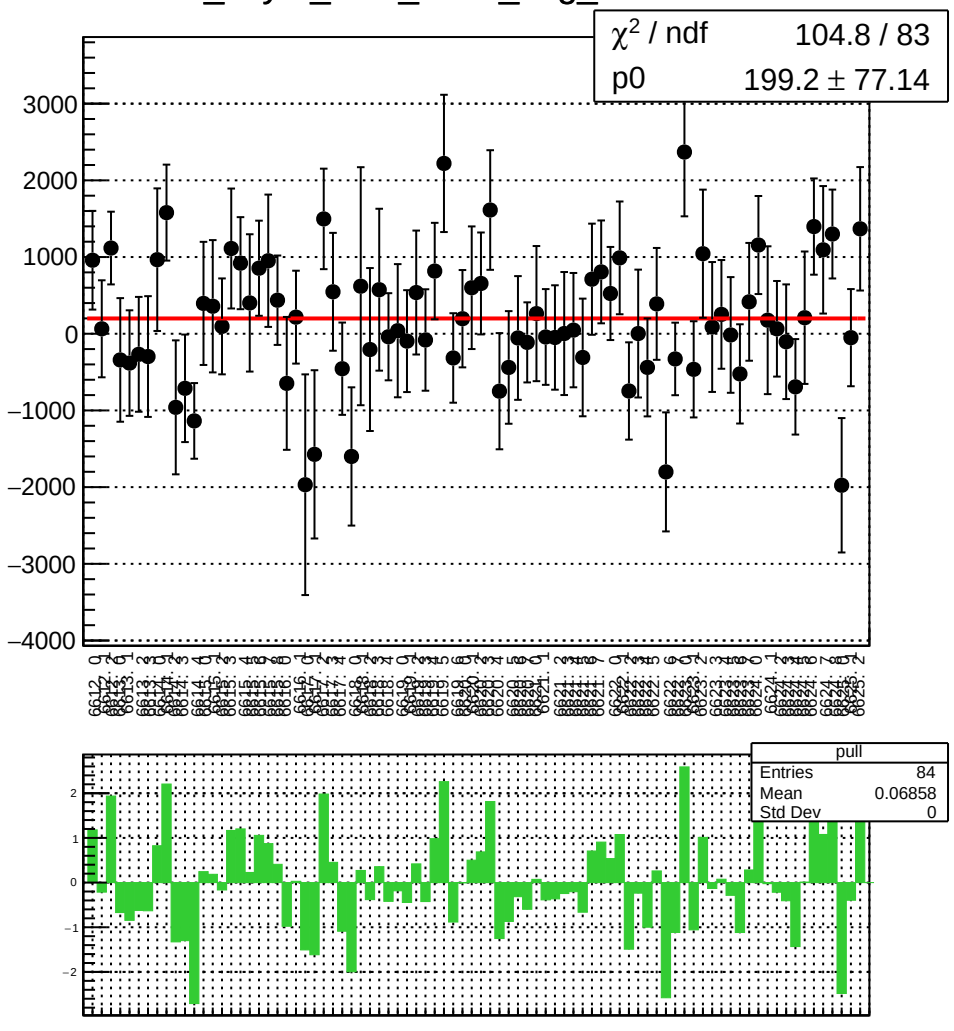

pull1D
Entries 84
Mean −0.007757
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

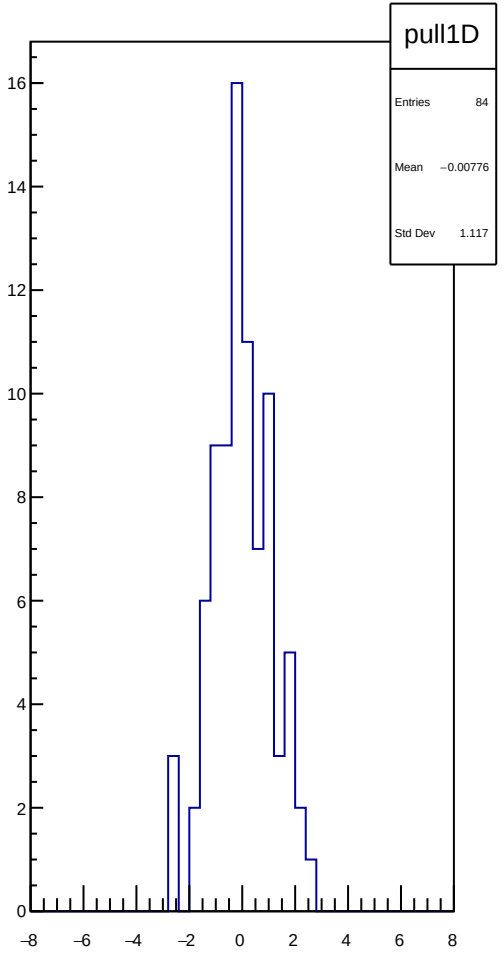

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 4.163e+04 / 83
p0 68.8 ± 0.05455
140
120
100
80
60

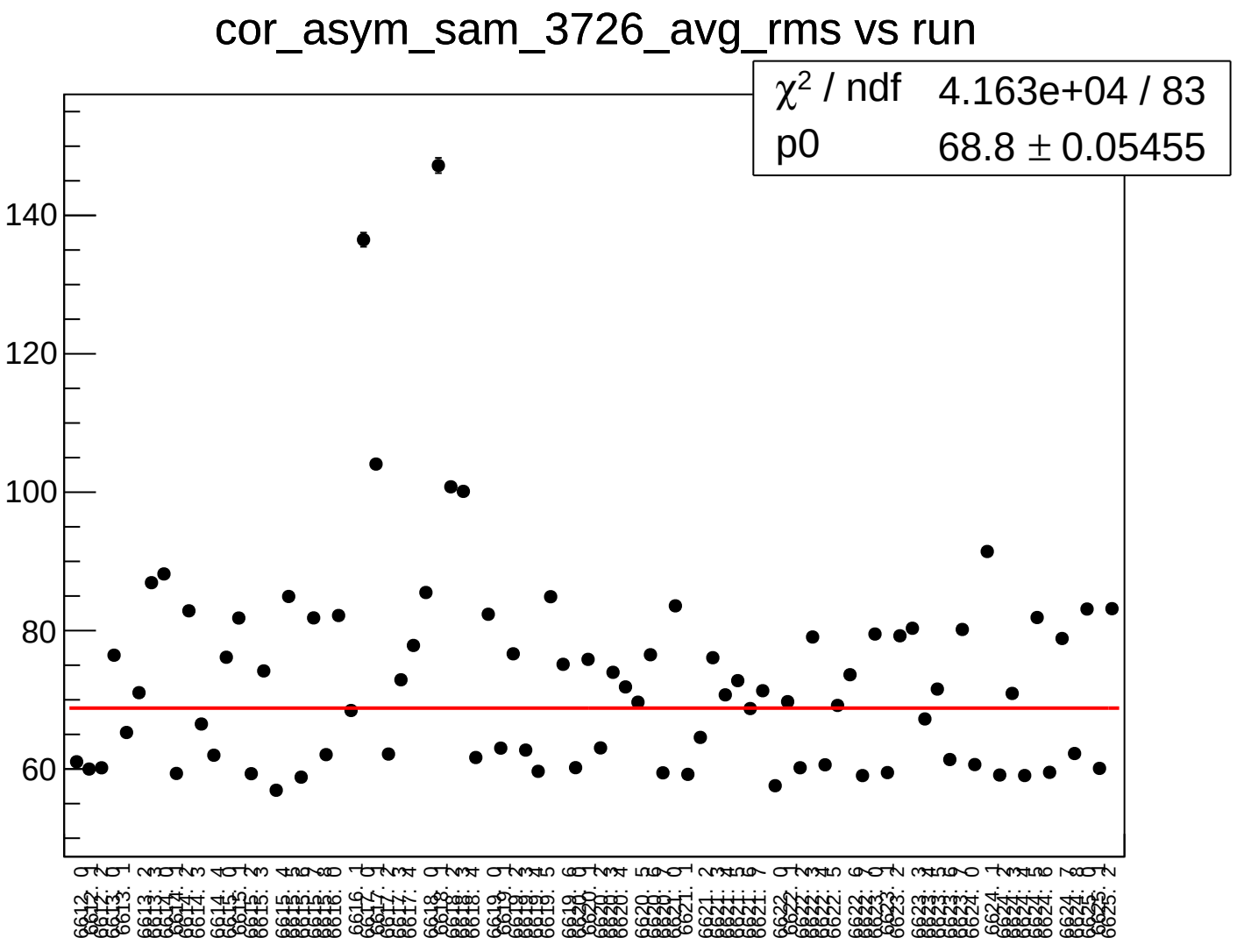

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 74.43 / 83
p0 −1083 ± 676.3
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 244.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

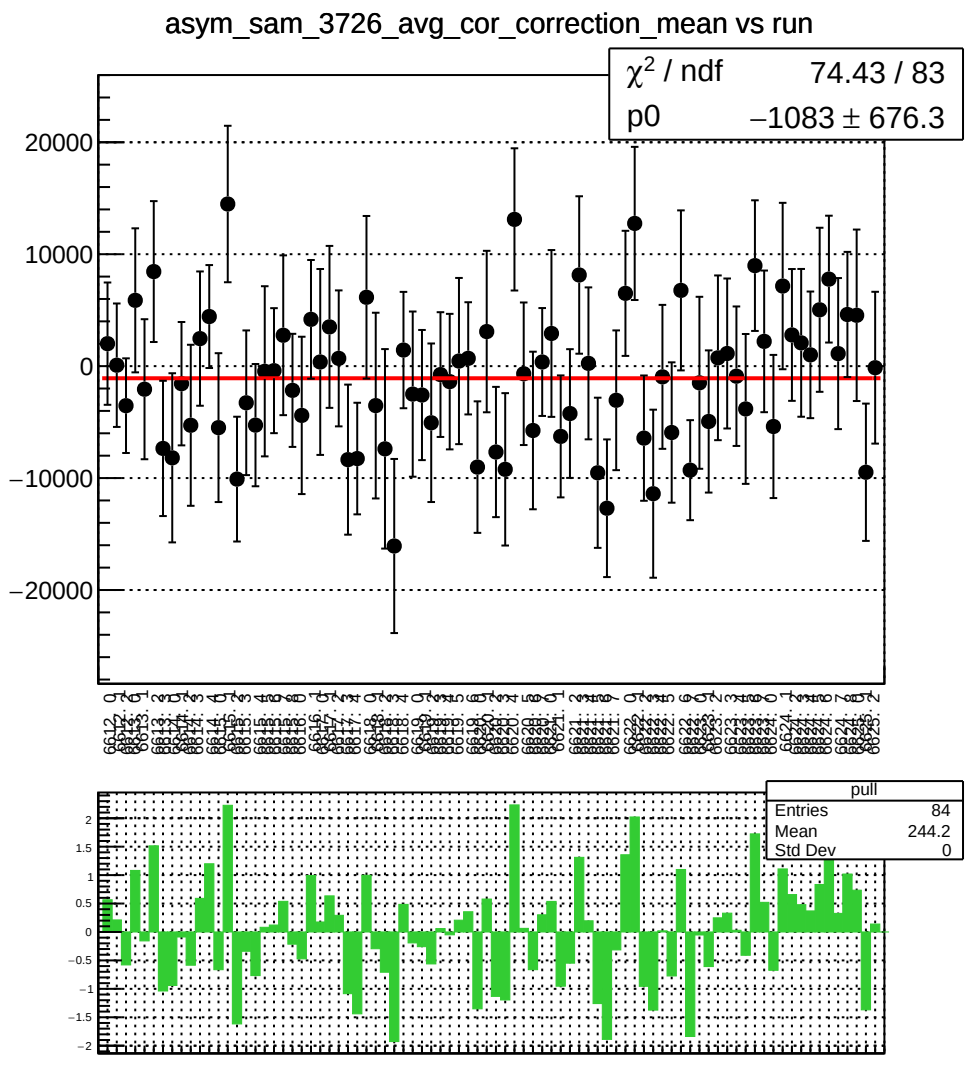

pull1D
Entries 84
Mean 0.009604
Std Dev 0.9412
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

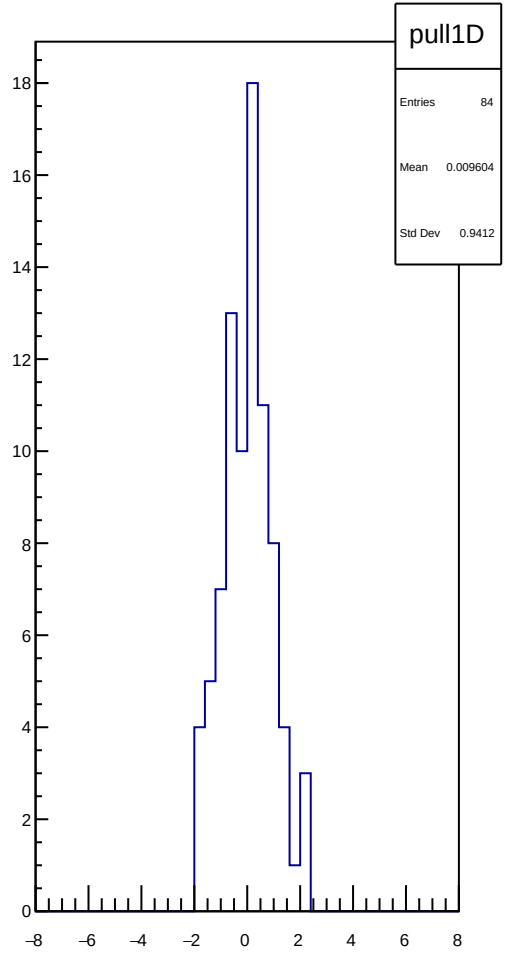

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.982e+04 / 83
p0 607.3 ± 0.4782
850
800
750
700
650
600
550
500

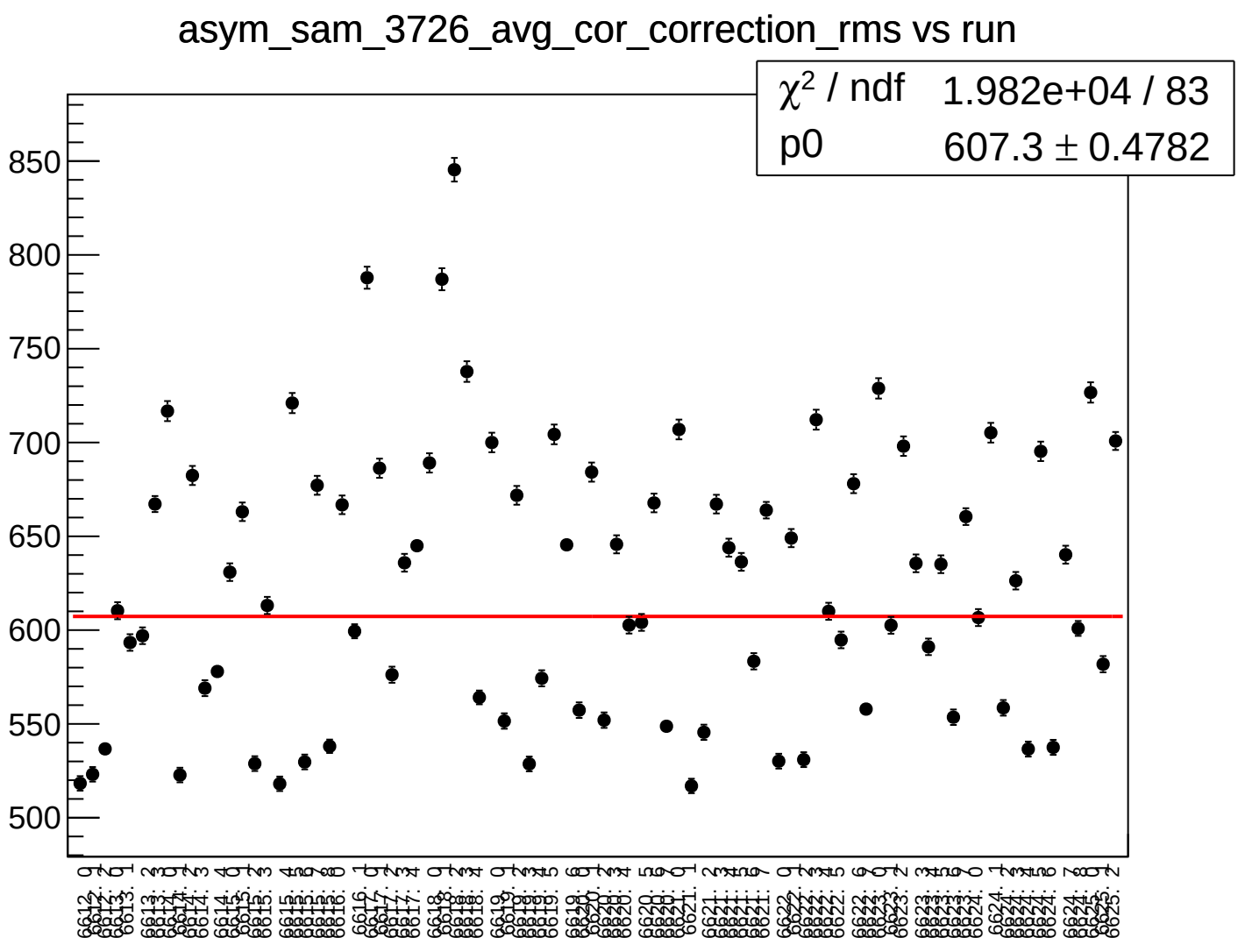

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 104.8 / 83
p0 199.2 ± 77.14
pull
Entries 84
Mean 0.06858
Std Dev 0

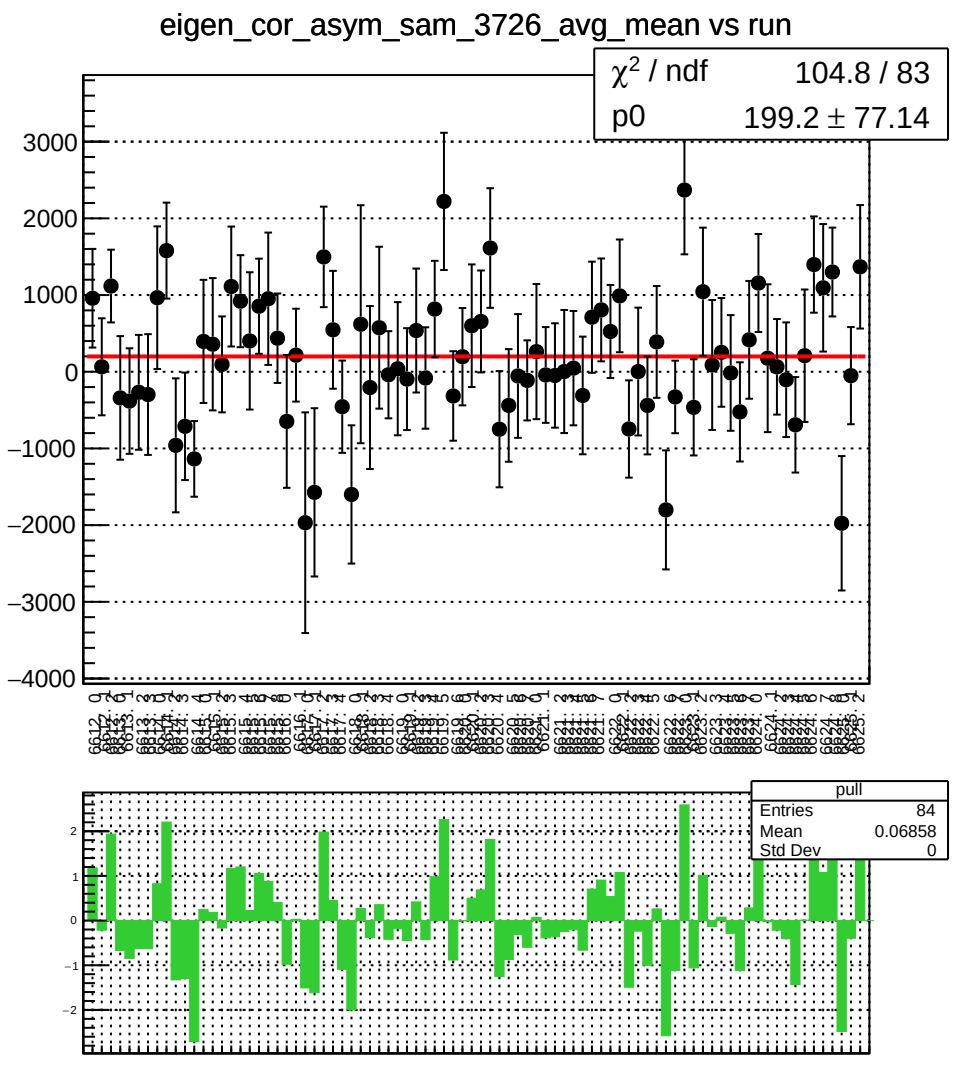

pull1D
Entries 84
Mean −0.00776
Std Dev 1.117

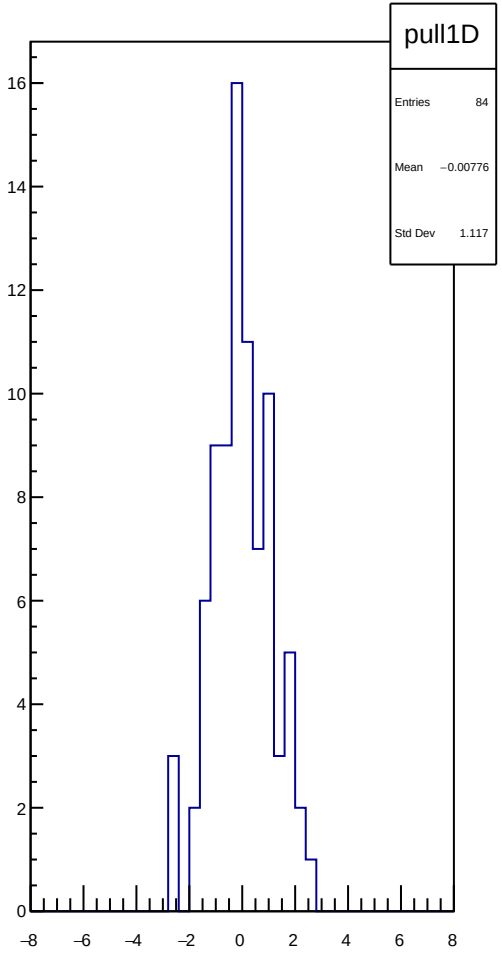

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.163e+04 / 83
p0 68.8 ± 0.05455
140
120
100
80
60

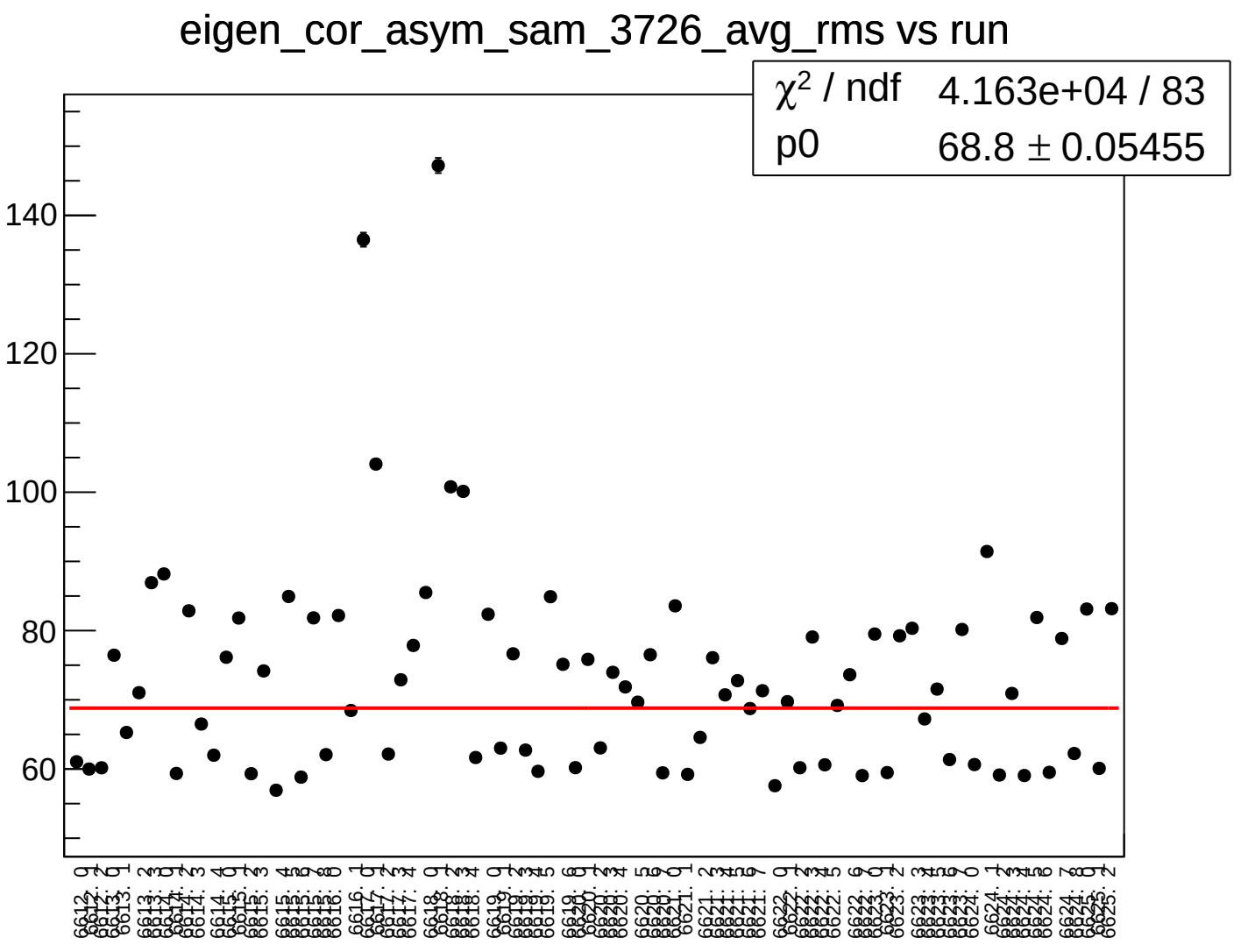

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 74.43 / 83
p0 −1083 ± 676.3
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 244.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

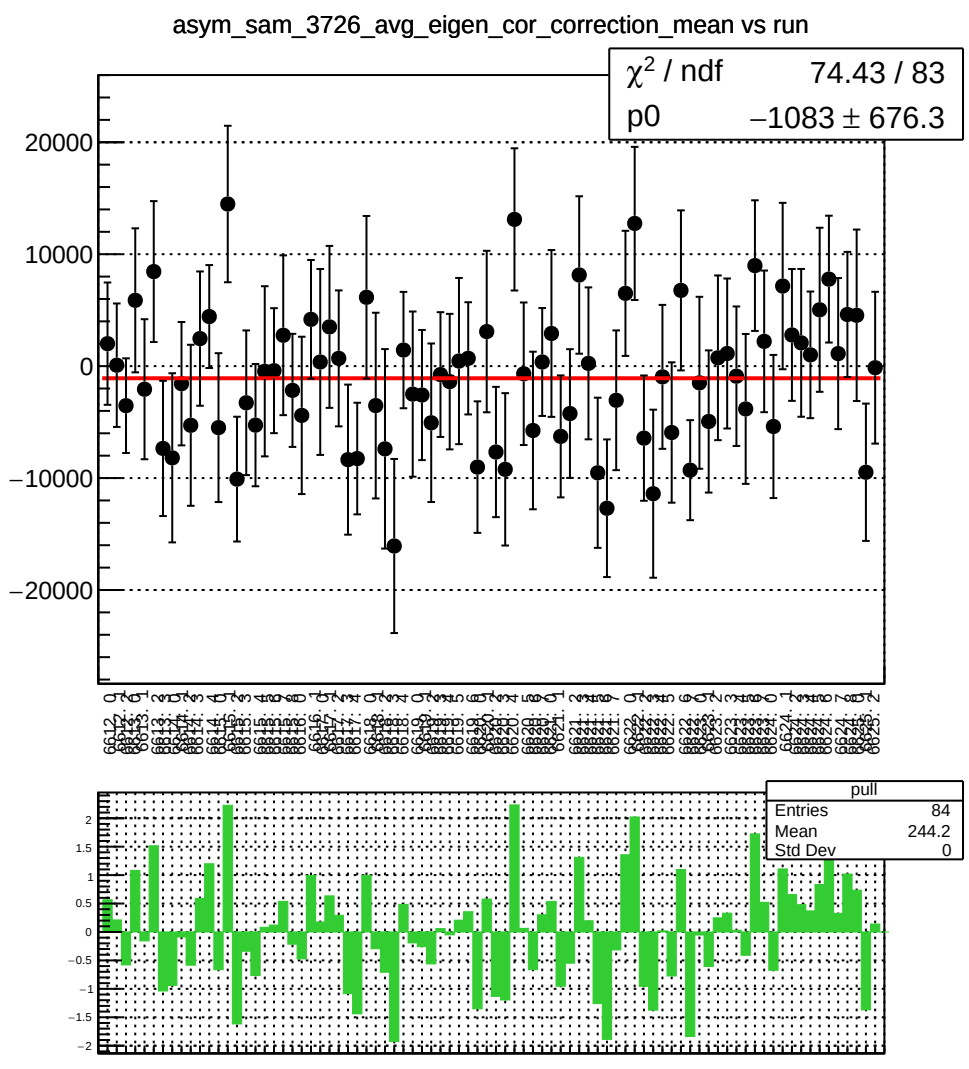

pull1D
Entries 84
Mean 0.009604
Std Dev 0.9412
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

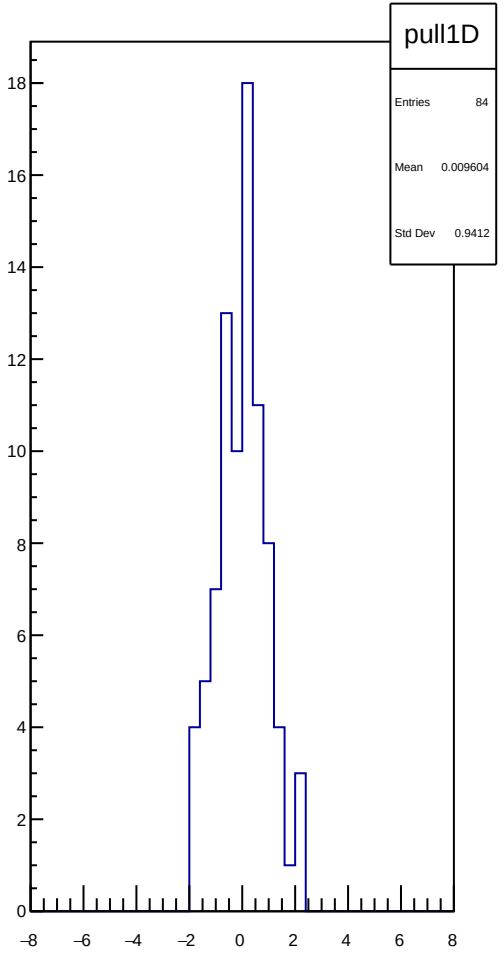

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1.982e+04 / 83
p0 607.3 ± 0.4782
850
800
750
700
650
600
550
500

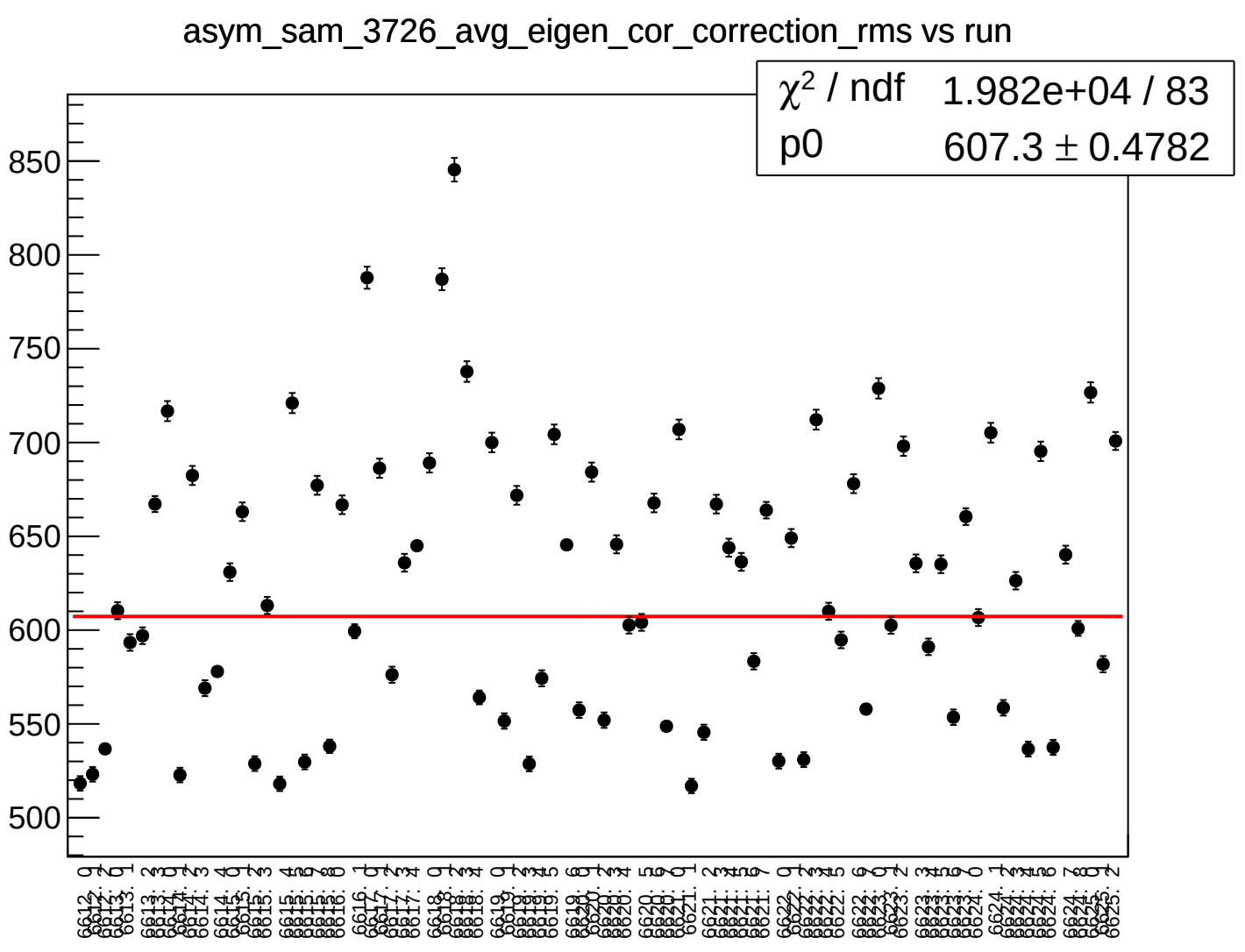

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 104.8 / 83
p0 199.2 ± 77.14
pull
Entries 84
Mean 0.06858
Std Dev 0

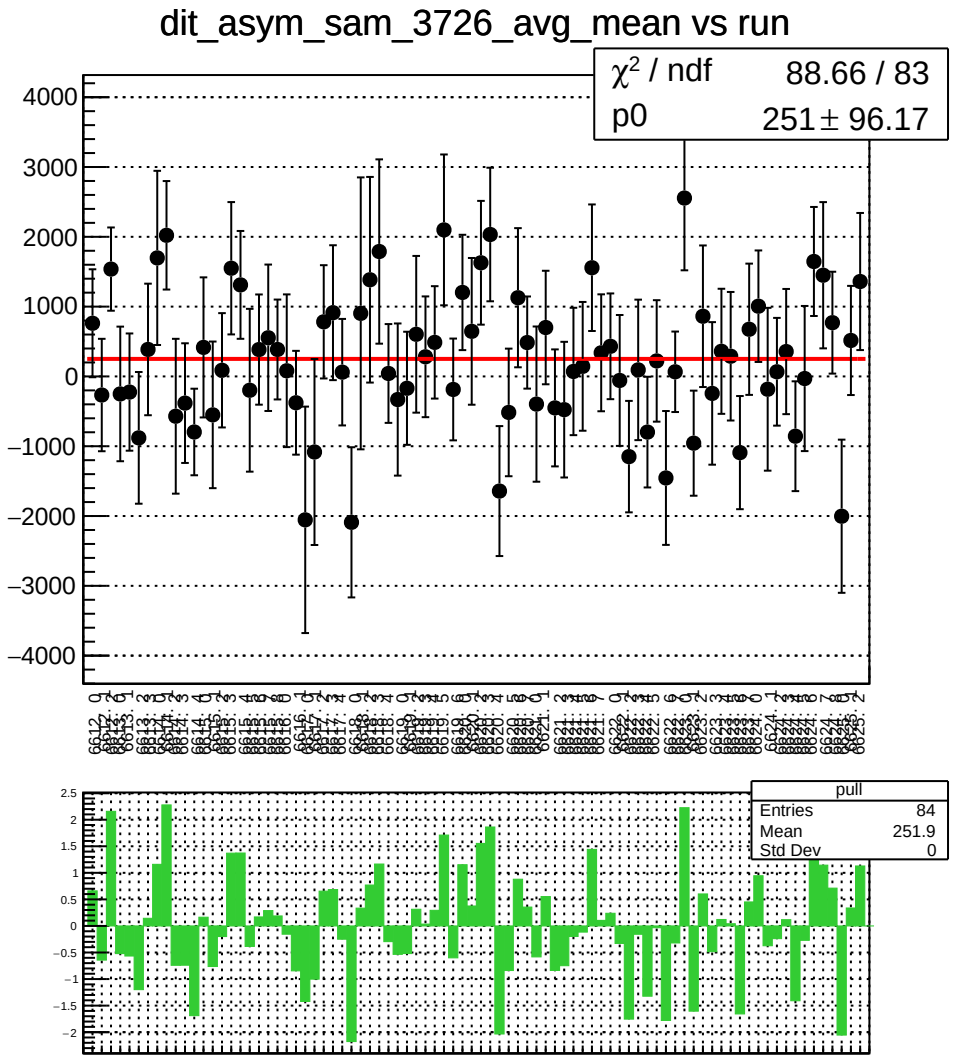

pull1D
Entries 84
Mean −0.00776
Std Dev 1.117

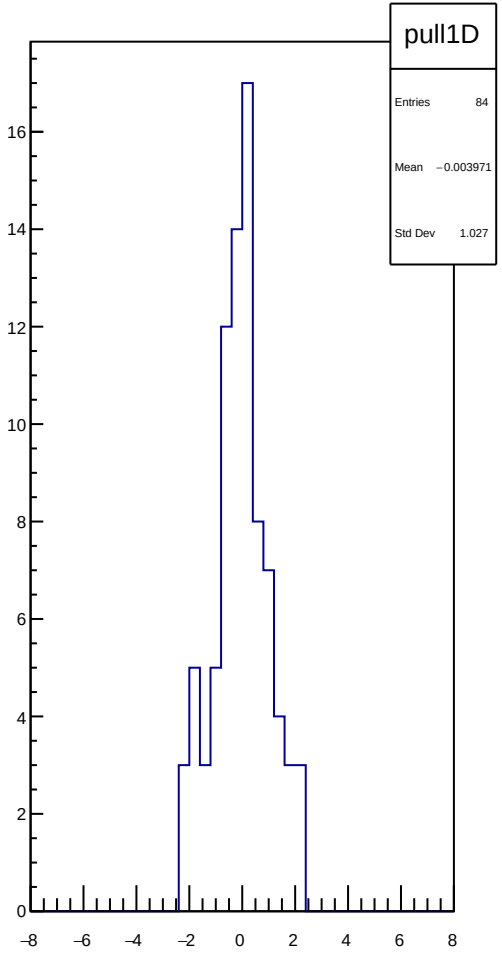

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.163e+04 / 83
p0 68.8 ± 0.05455
140
120
100
80
60

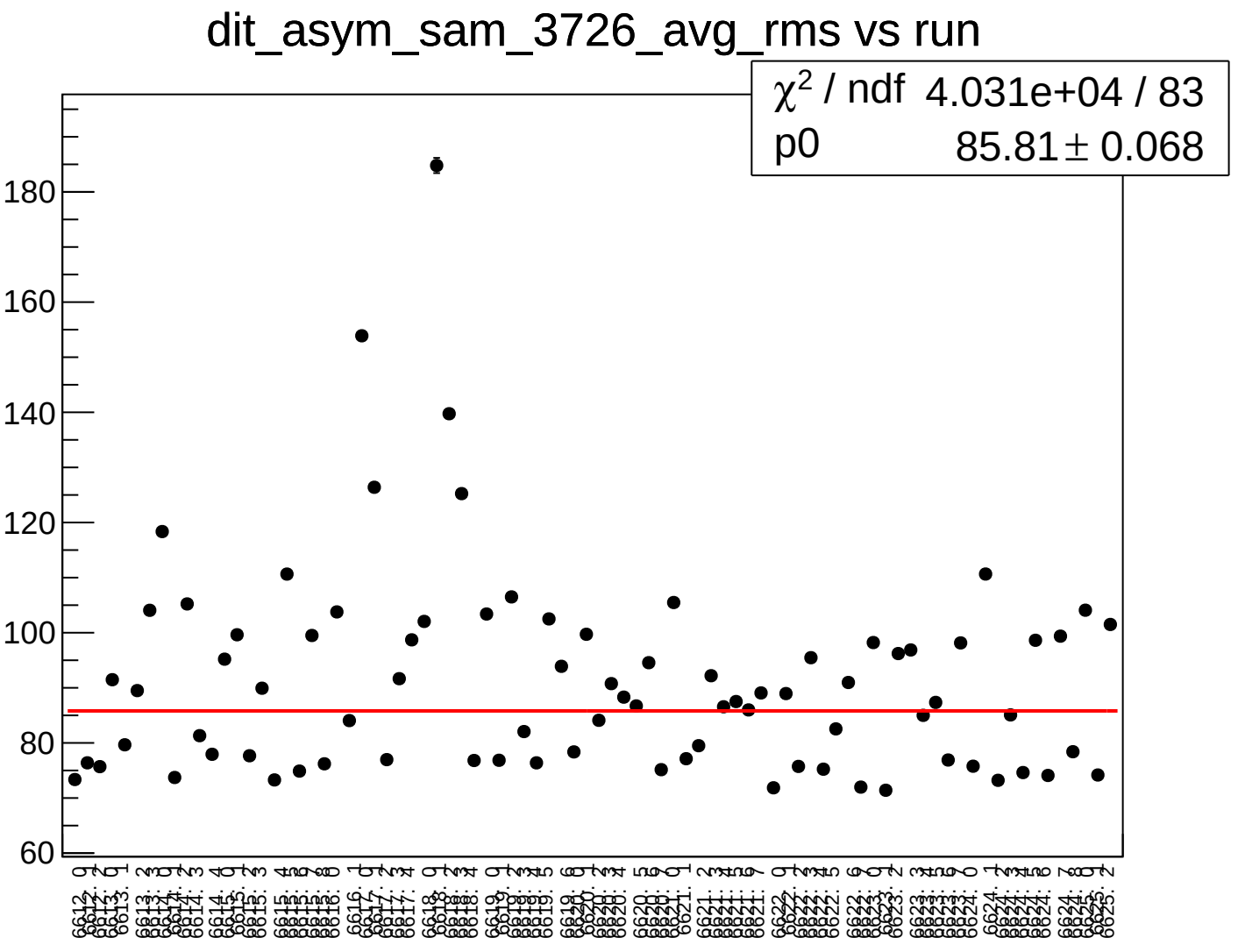

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.43 / 83
p0 −1083 ± 676.3
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 244.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

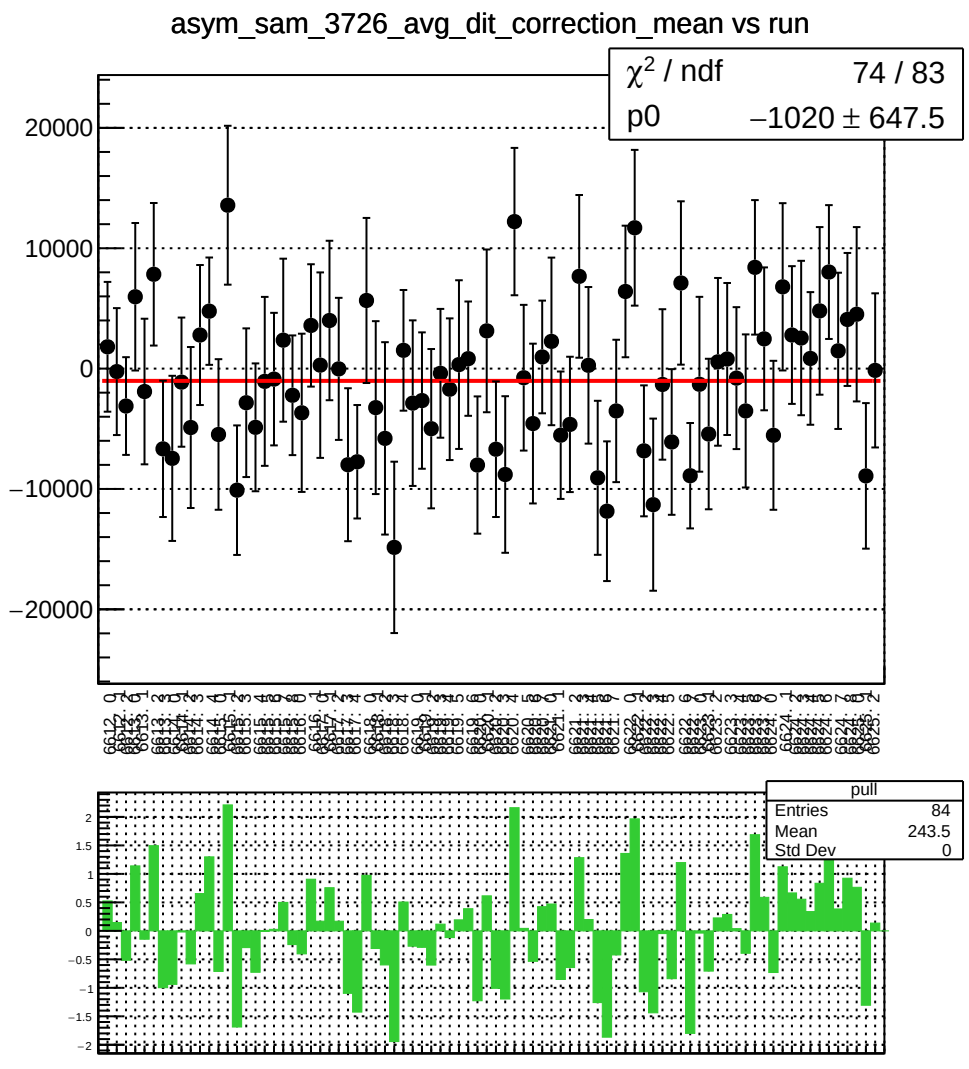

pull1D
Entries 84
Mean 0.009604
Std Dev 0.9412
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

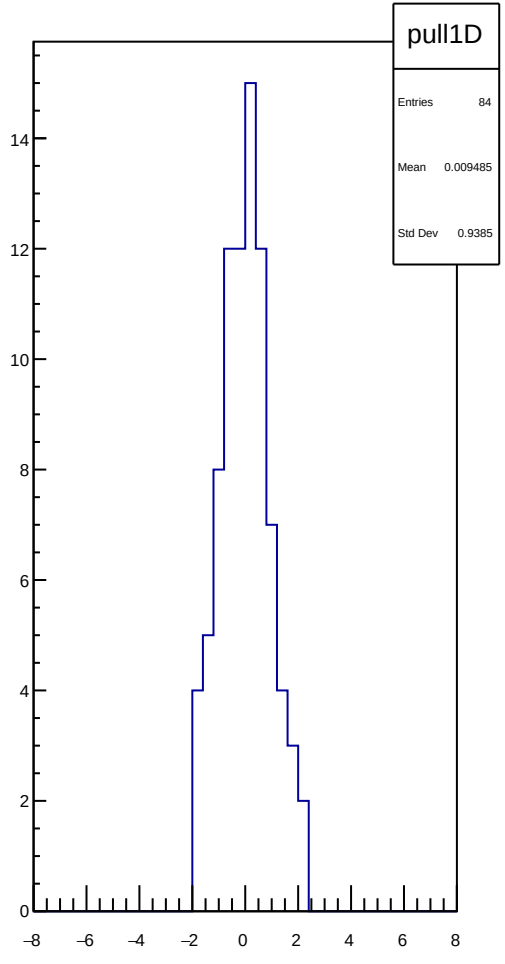

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.982e+04 / 83
p0 607.3 ± 0.4782
850
800
750
700
650
600
550
500

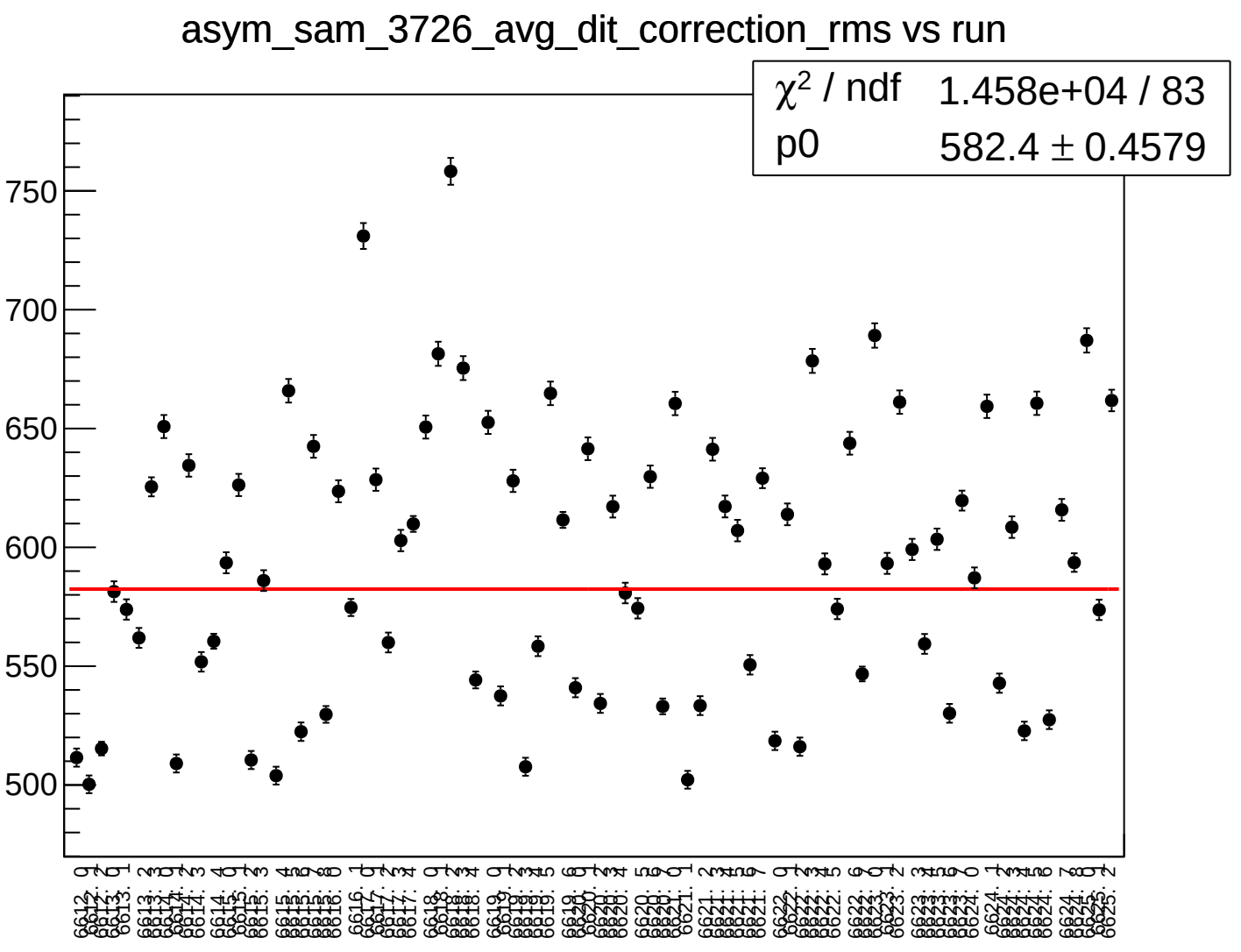

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 88.66 / 83
p0 251 ± 96.17
pull
Entries 84
Mean 251.9
Std Dev 0

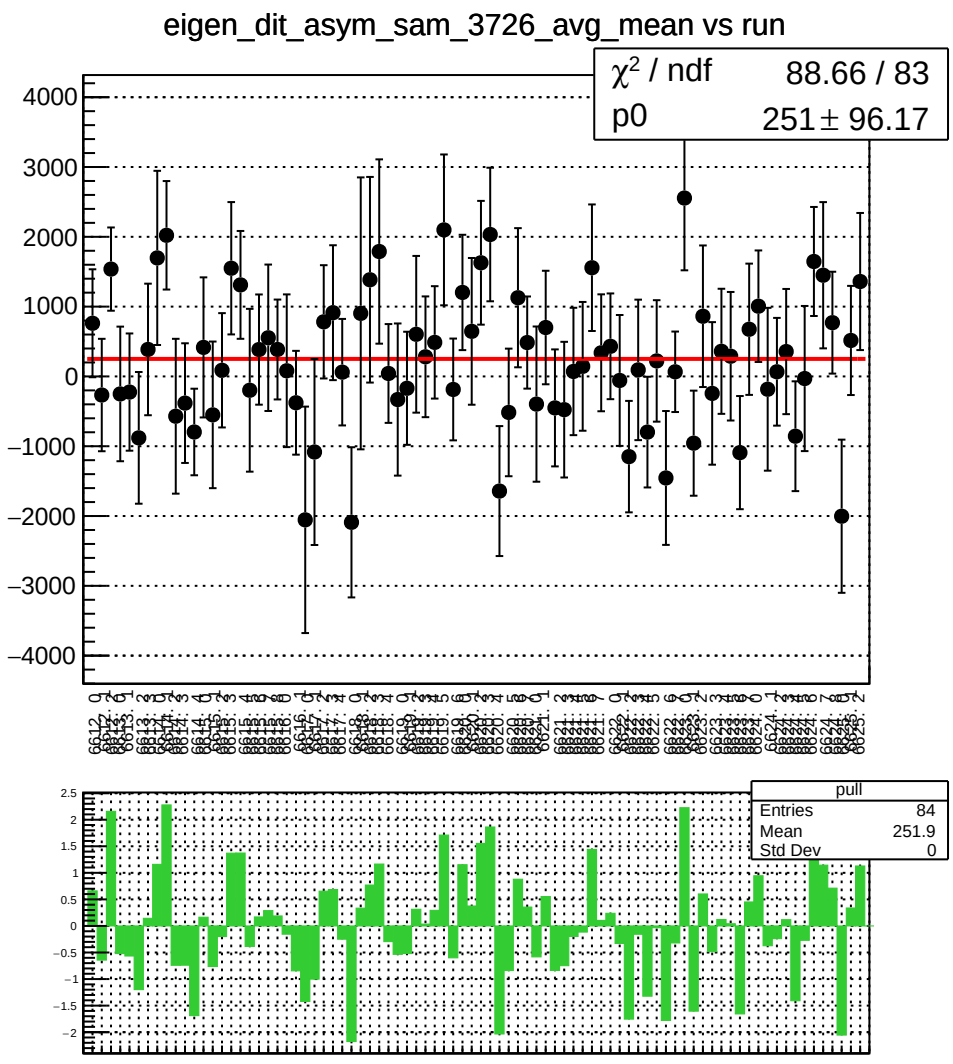

pull1D
Entries 84
Mean −0.003971
Std Dev 1.027

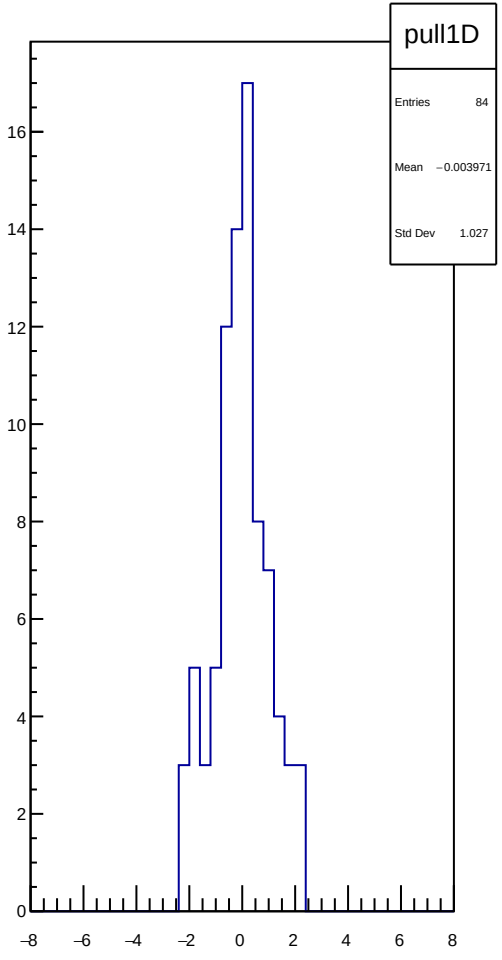

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 4.031e+04 / 83
p0 85.81 ± 0.068
180
160
140
120
100
80
60

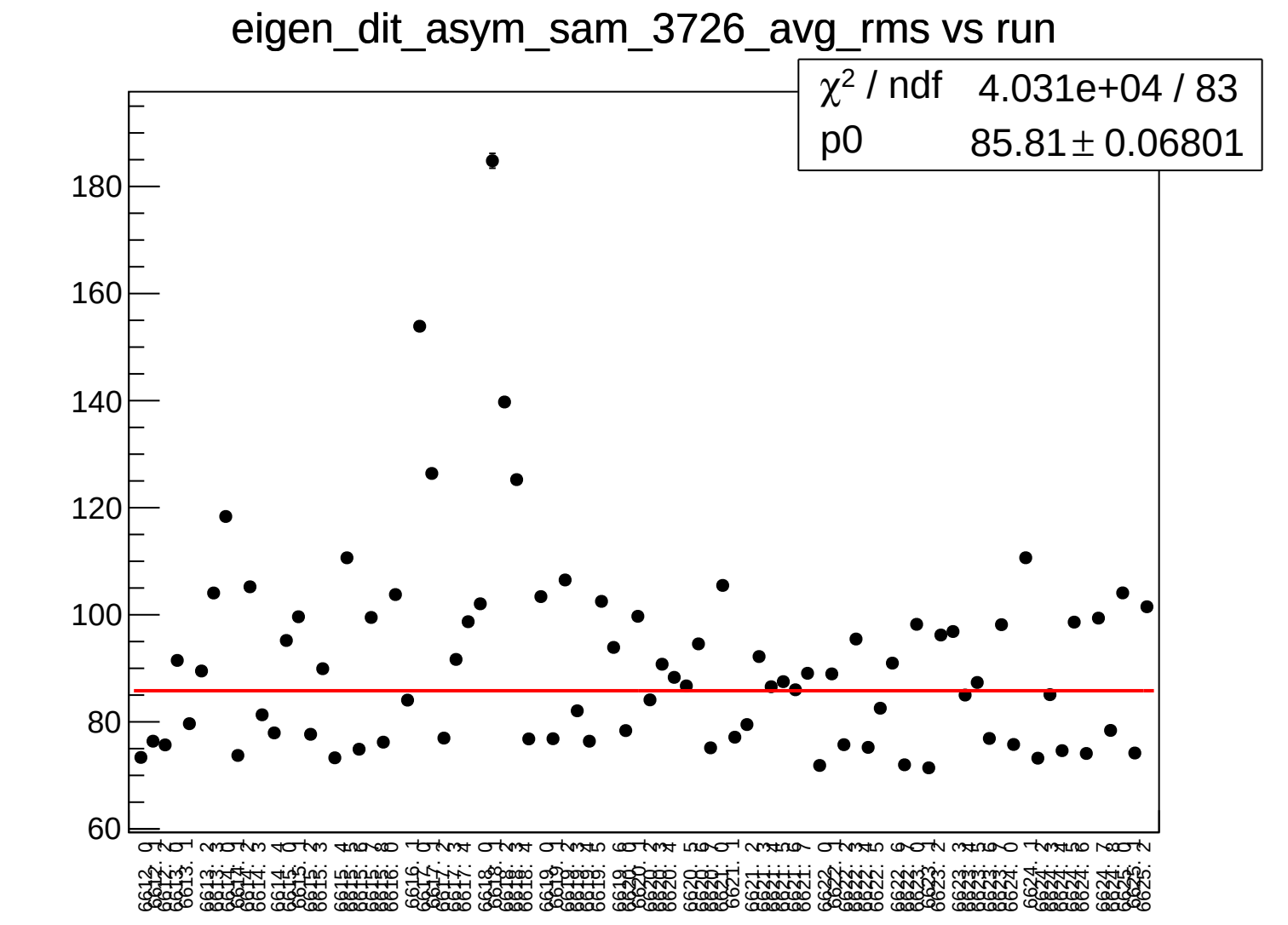

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 74 / 83
p0 −1020 ± 647.5
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 243.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

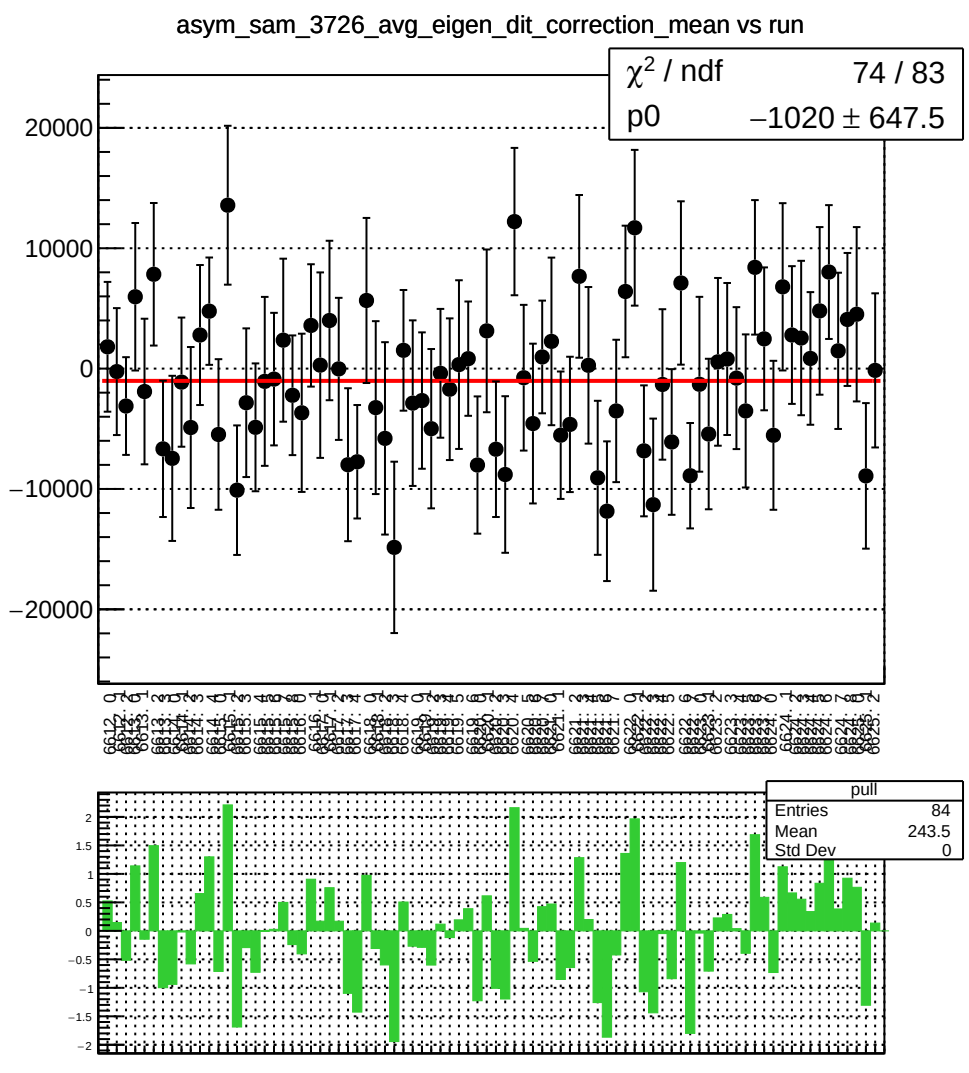

pull1D
Entries 84
Mean 0.009485
Std Dev 0.9385
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

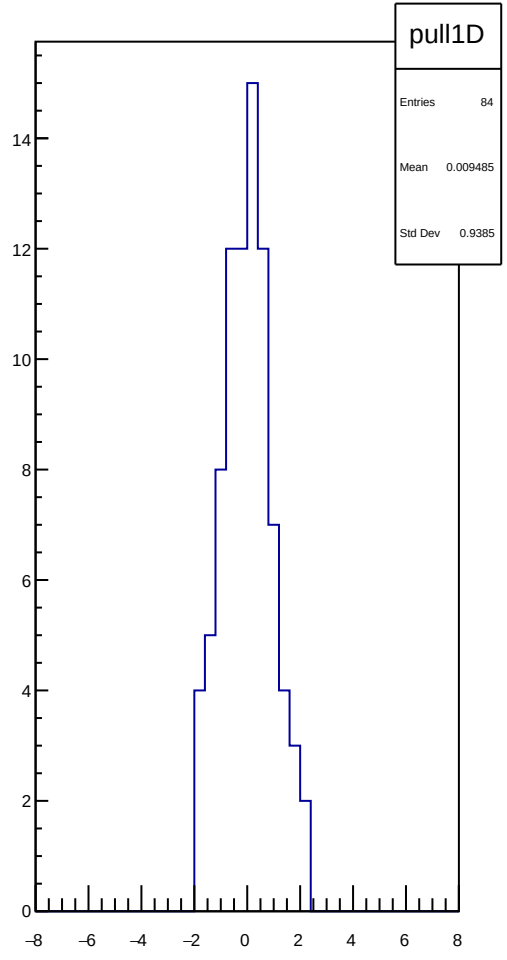

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 1.458e+04 / 83
p0 582.4 ± 0.4579
750
700
650
600
550
500

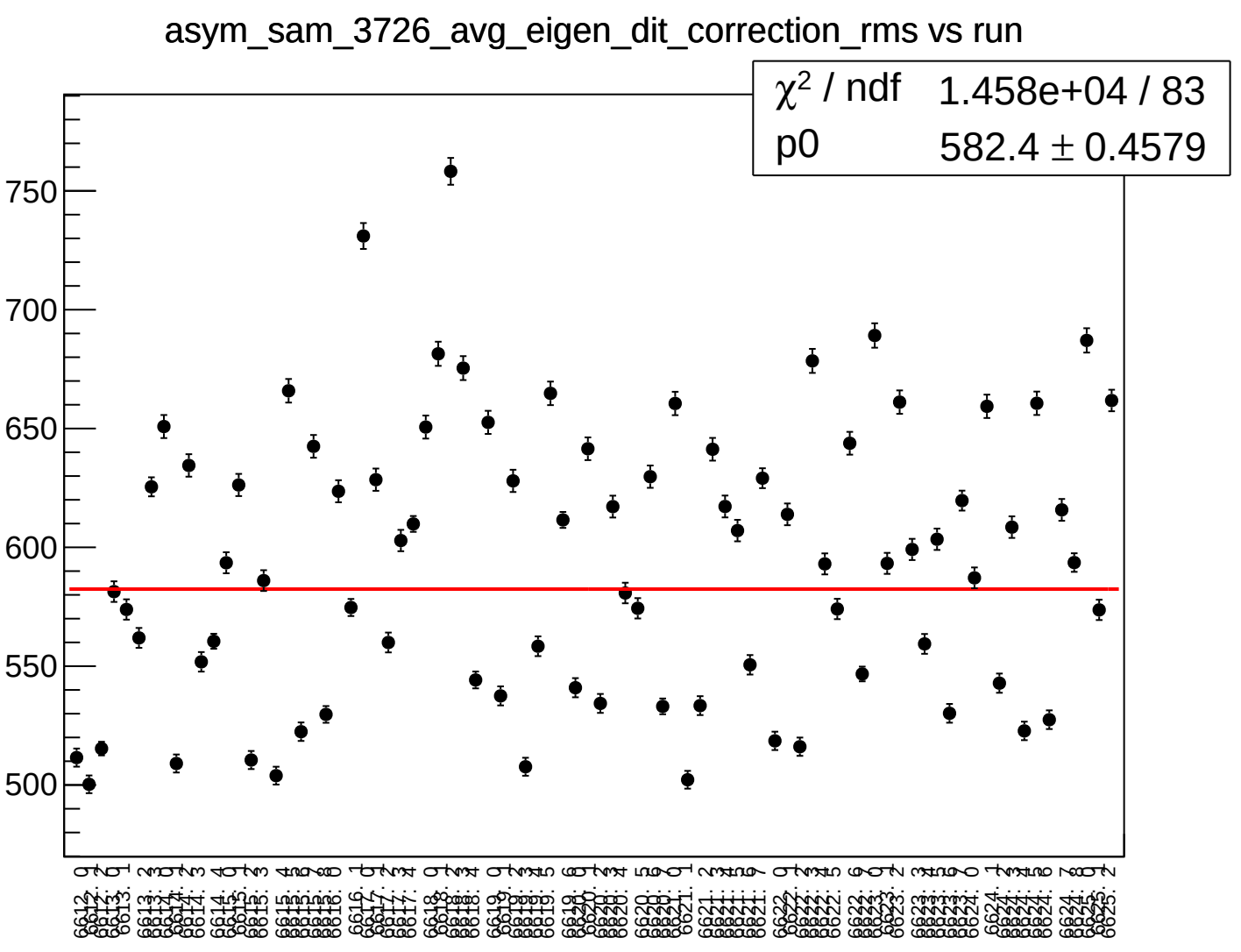

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 88.66 / 83
p0 251 ± 96.17
pull
Entries 84
Mean 251.9
Std Dev 0

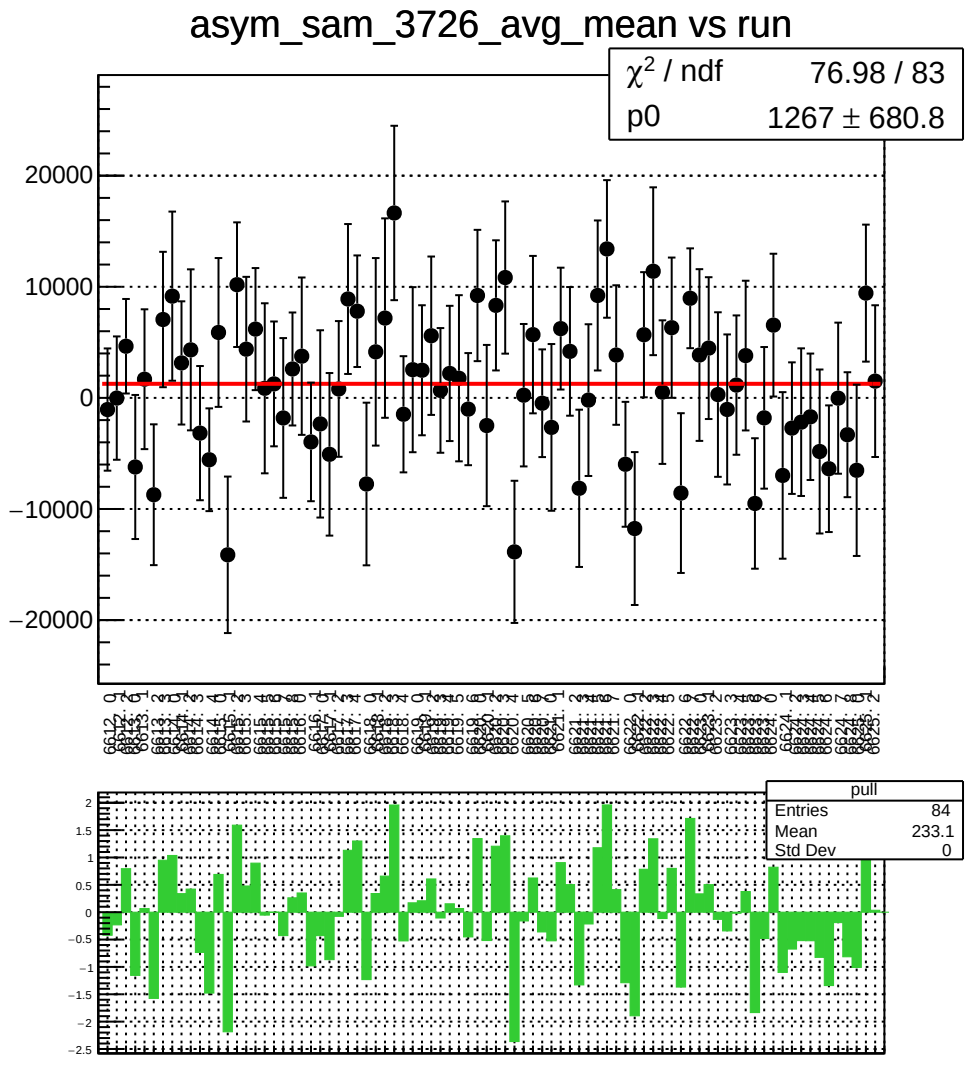

pull1D
Entries 84
Mean −0.003971
Std Dev 1.027

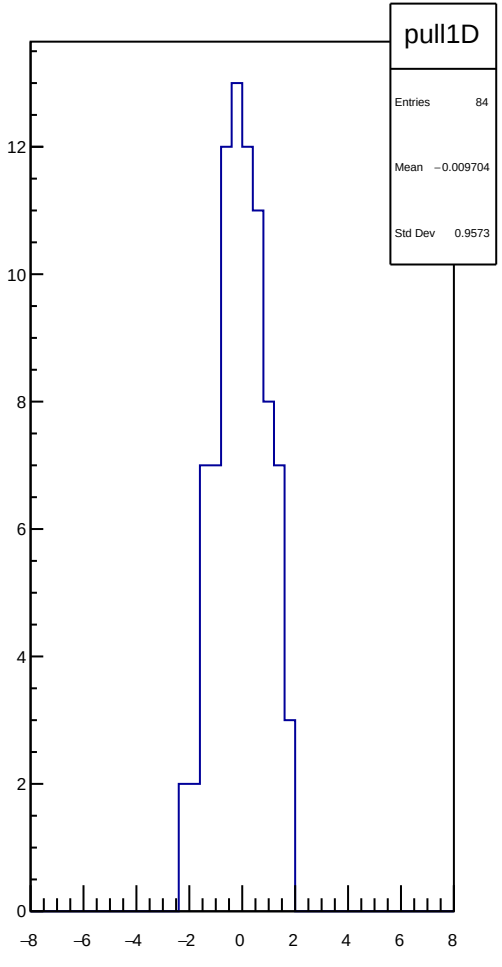

eigen_dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 4.031e+04 / 83
p0 85.81 ± 0.06801
180
160
140
120
100
80
60

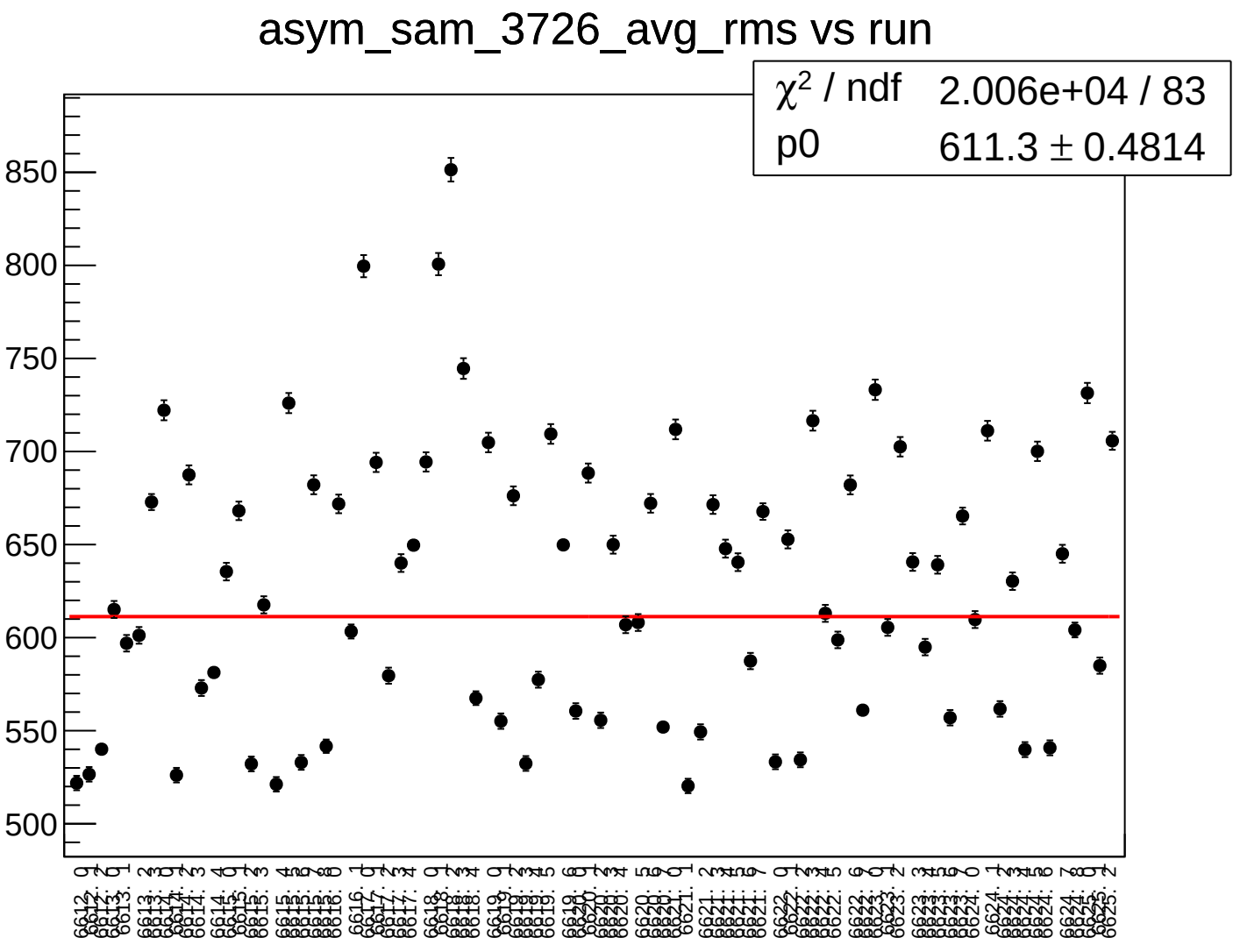

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 74 / 83
p0 −1020 ± 647.5
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 243.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

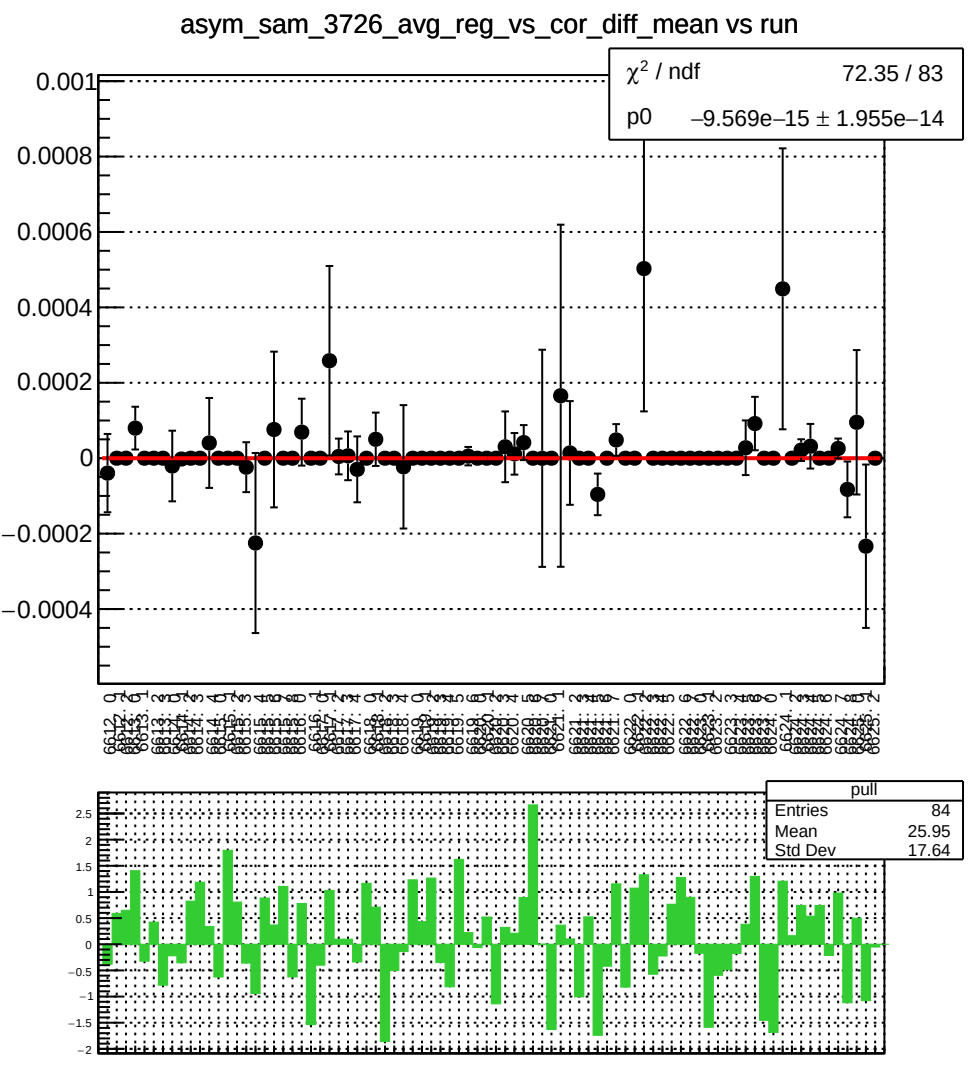

pull1D
Entries 84
Mean 0.009485
Std Dev 0.9385
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

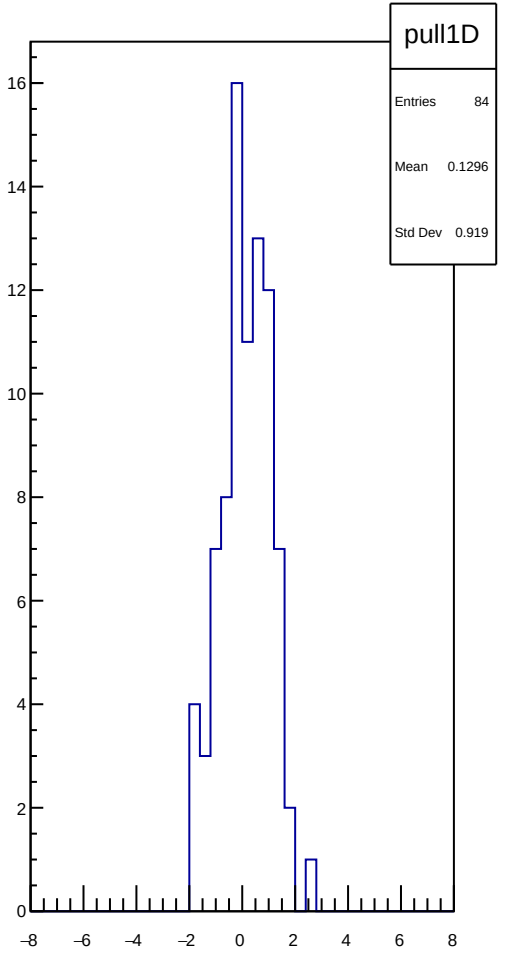

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.458e+04 / 83
p0 582.4 ± 0.4579
750
700
650
600
550
500

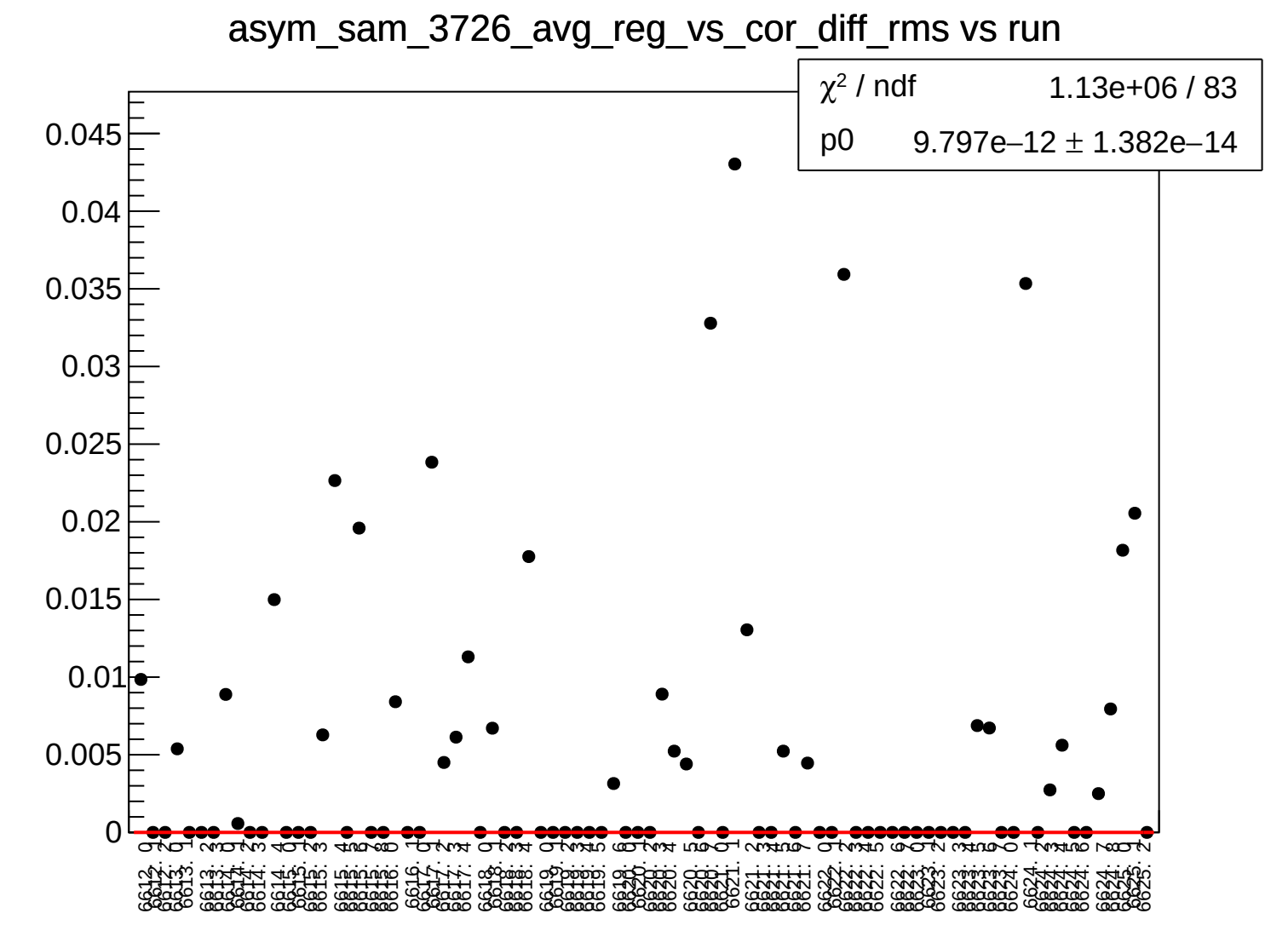

asym_sam_3726_avg_mean vs run
χ² / ndf 76.98 / 83
p0 1267 ± 680.8
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 233.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

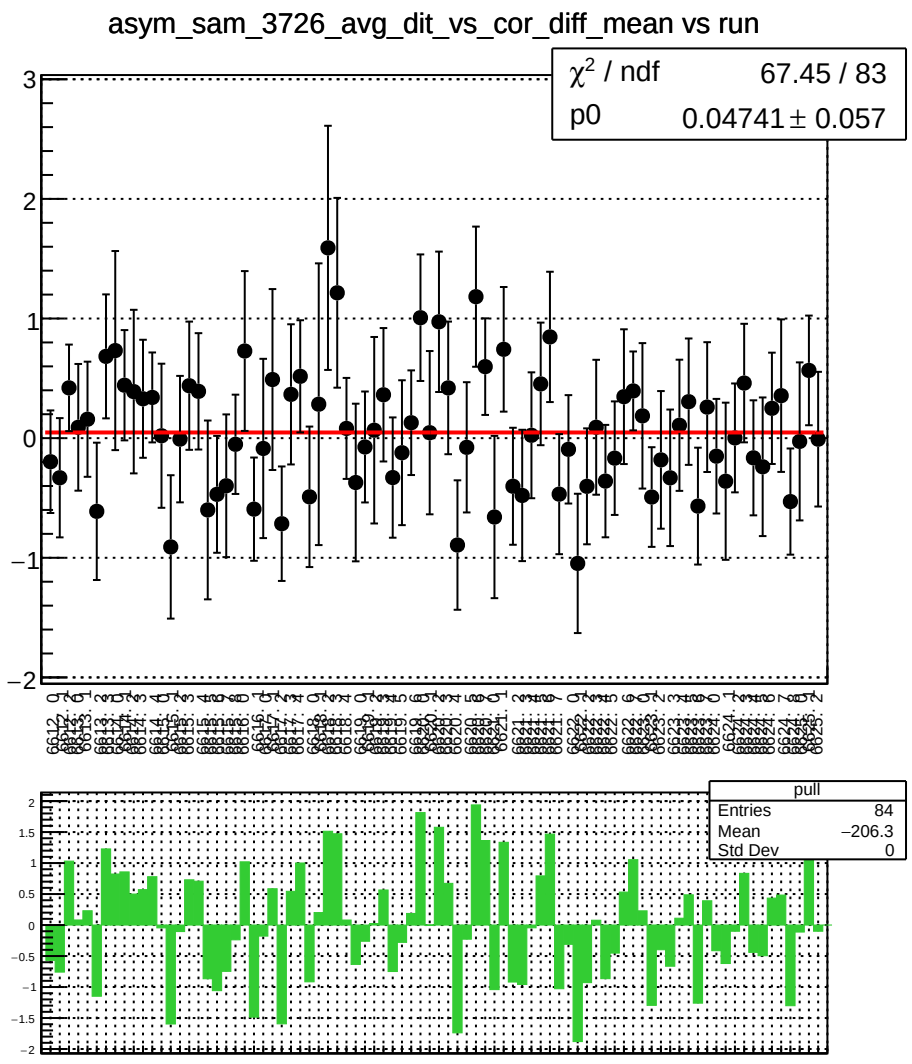

pull1D
Entries 84
Mean −0.009704
Std Dev 0.9573
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

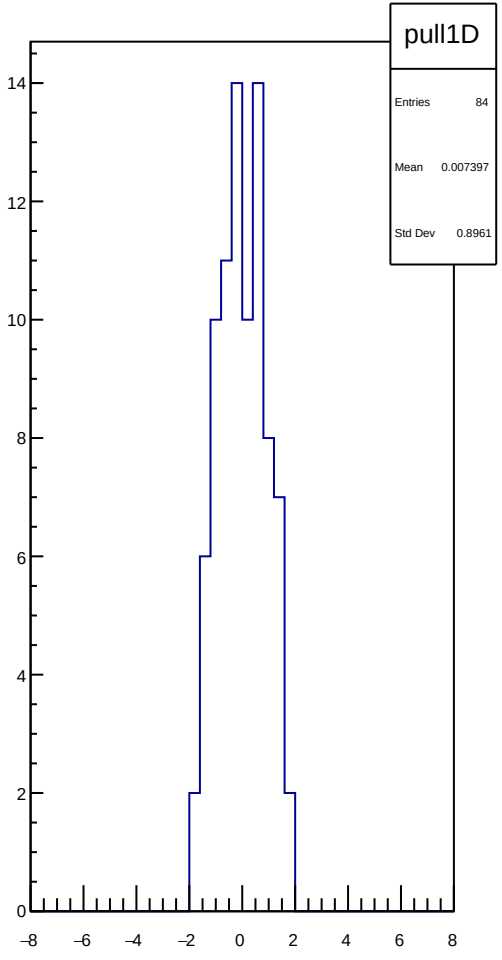

asym_sam_3726_avg_rms vs run
χ² / ndf 2.006e+04 / 83
p0 611.3 ± 0.4814
850
800
750
700
650
600
550
500

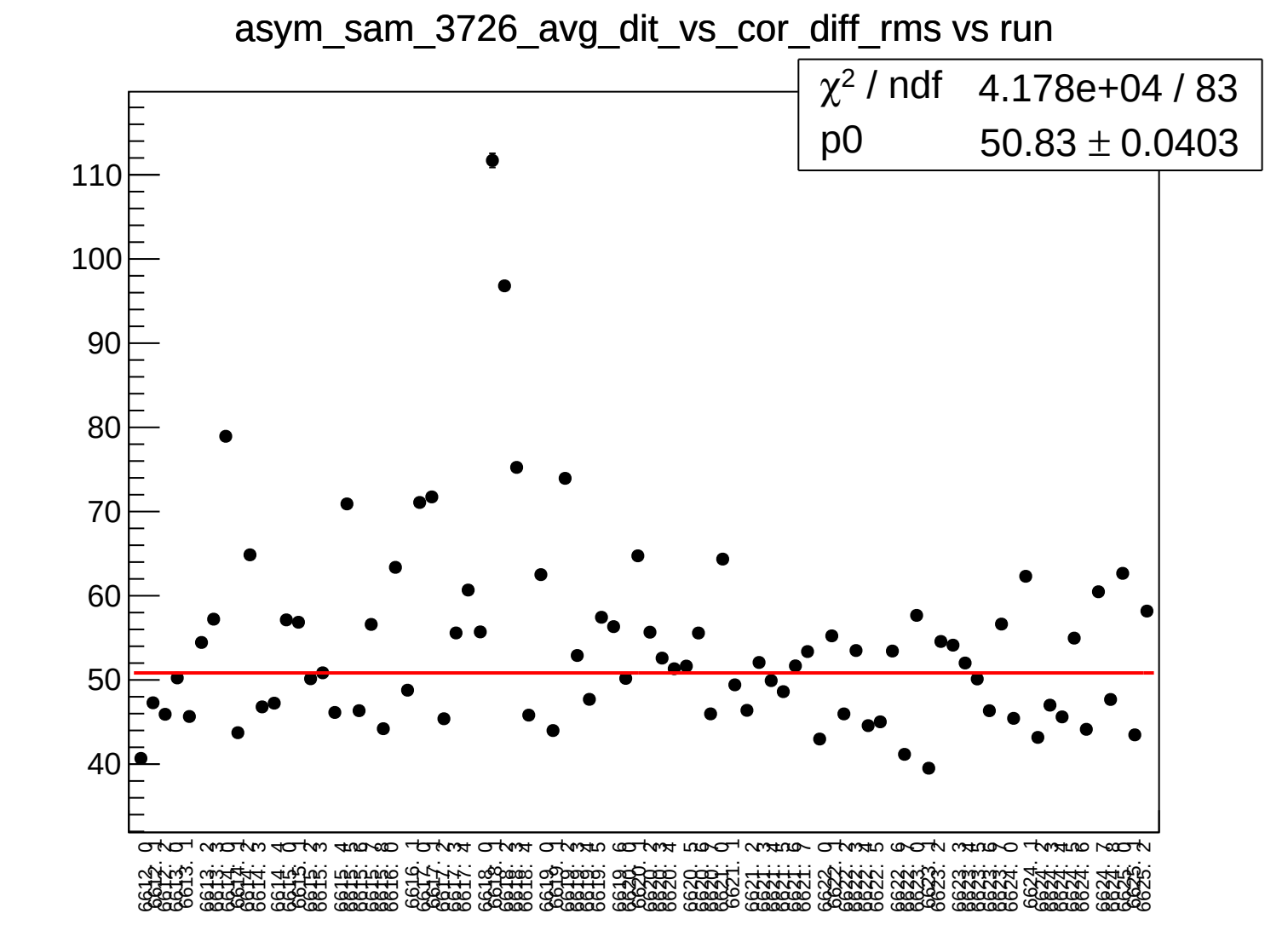

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.35 / 83
p0 −9.569e−15 ± 1.955e−14
pull
Entries 84
Mean 25.95
Std Dev 17.64

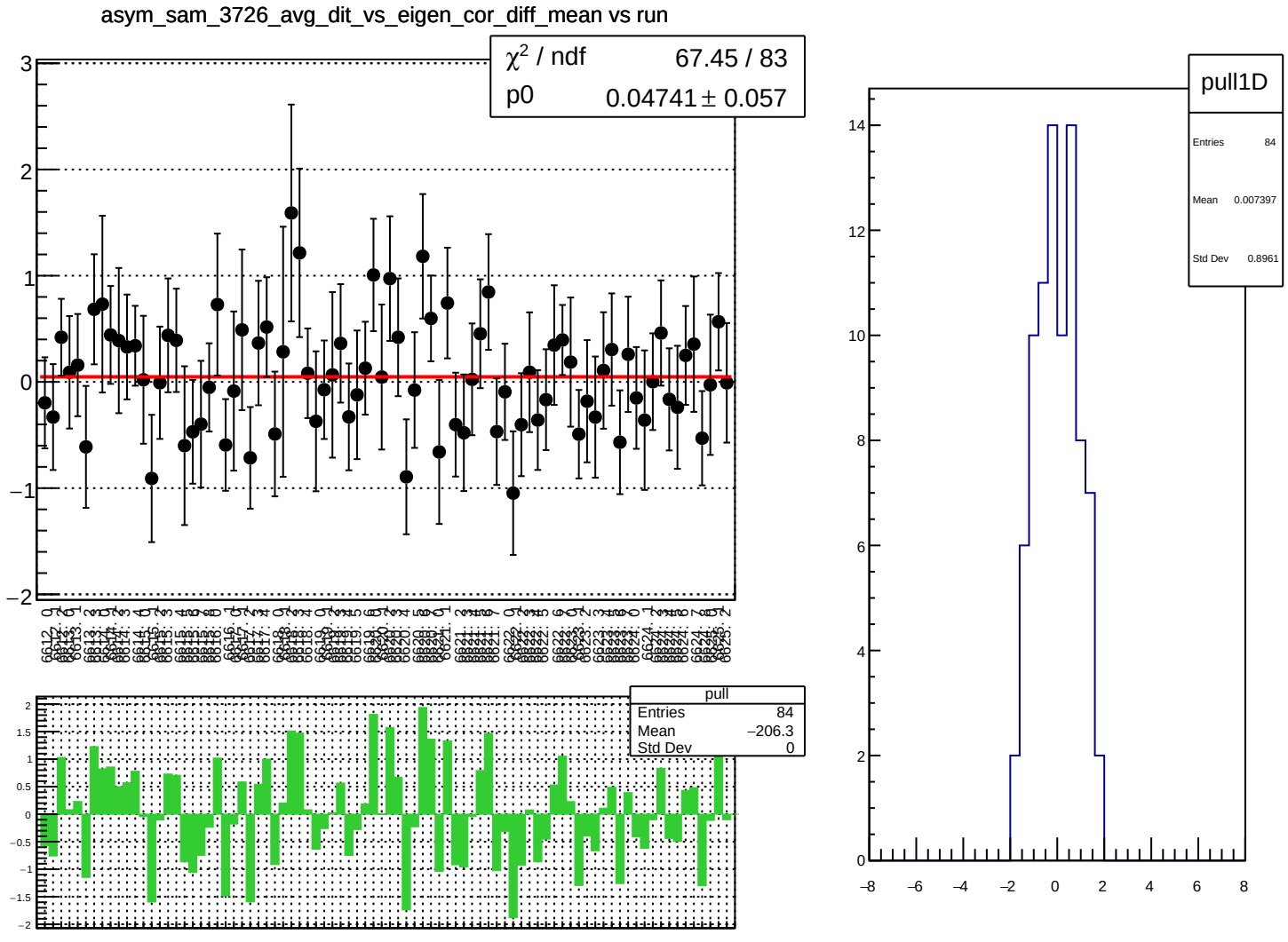

pull1D
Entries 84
Mean 0.1296
Std Dev 0.919

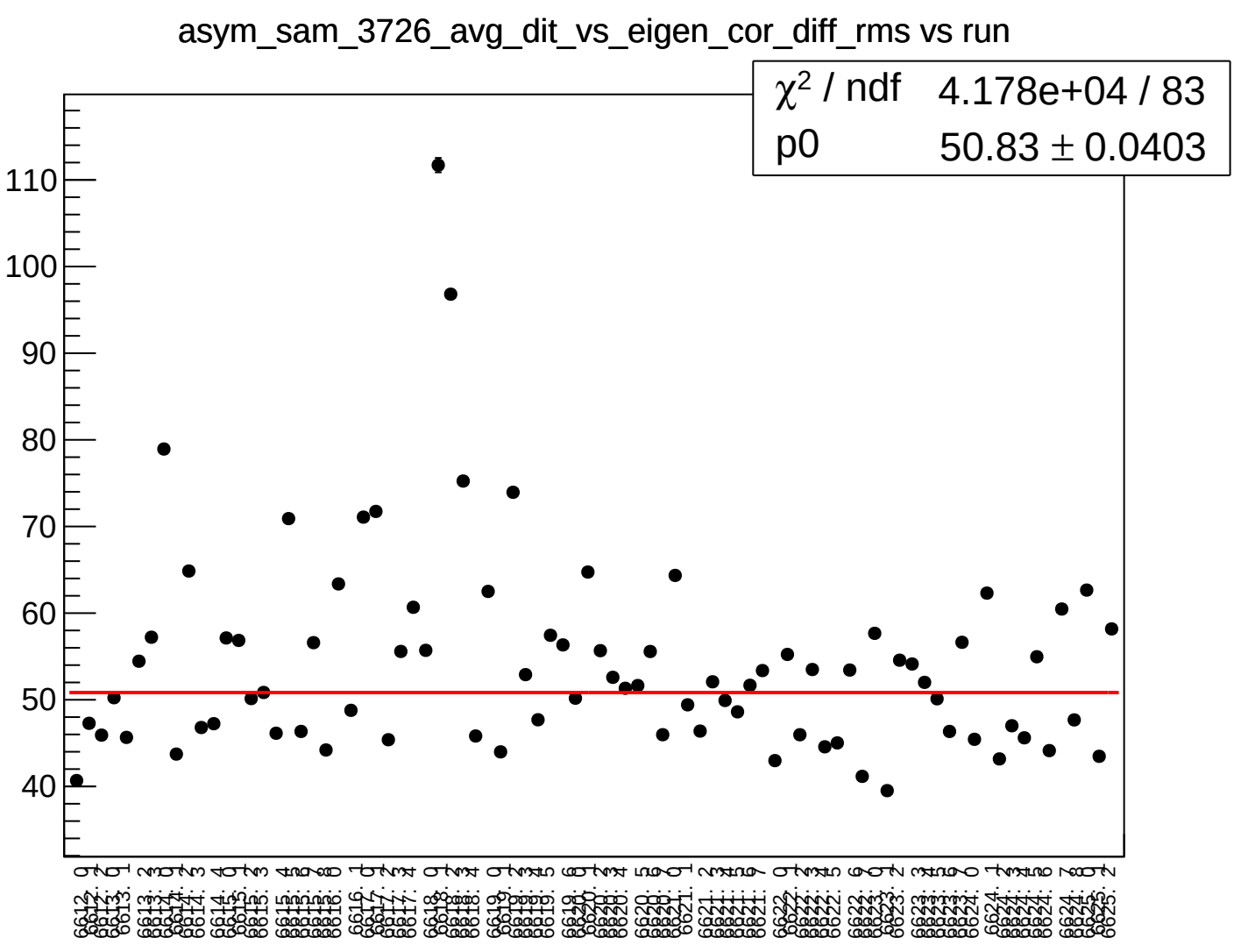

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.13e+06 / 83
p0 9.797e−12 ± 1.382e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

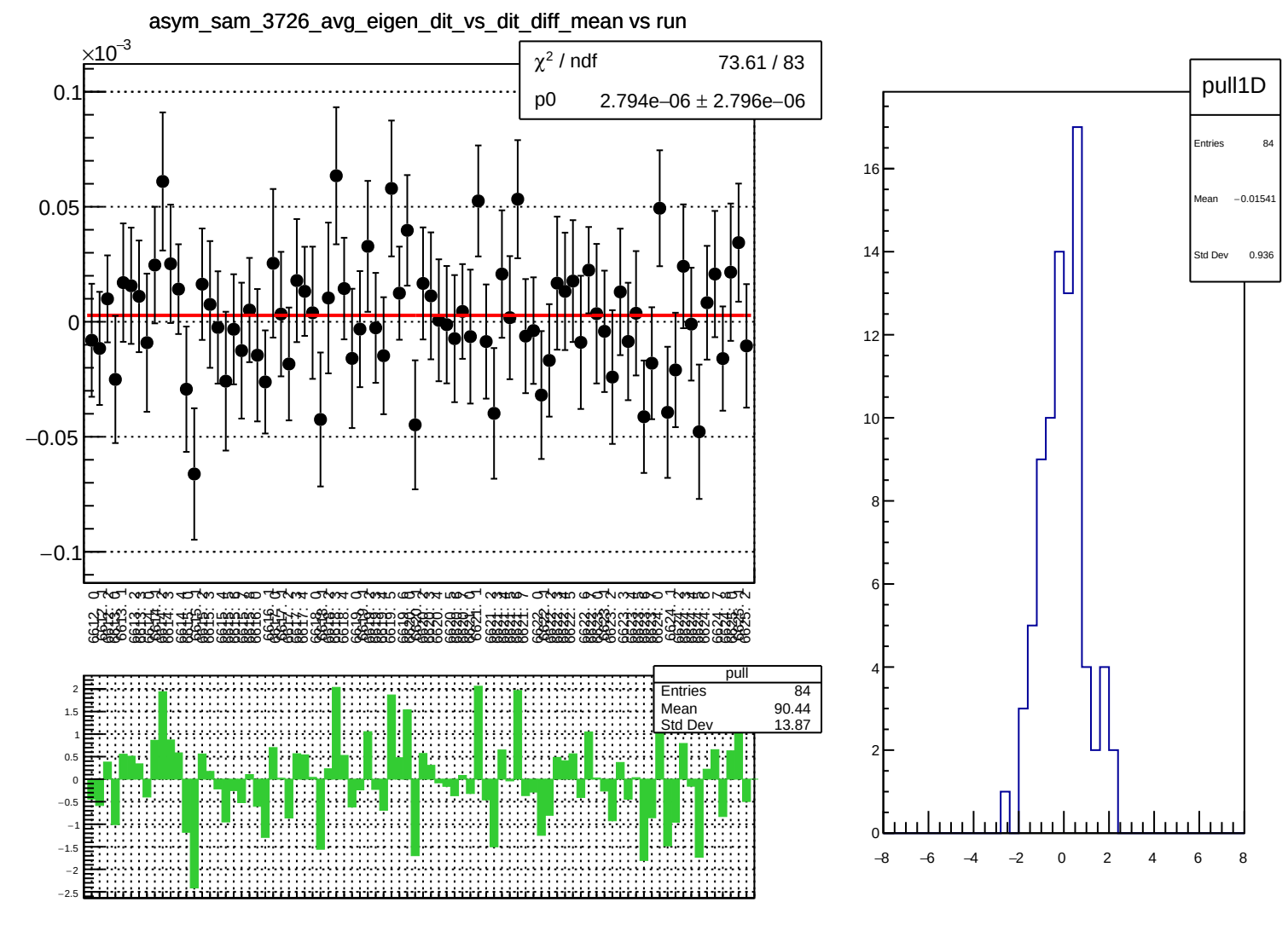

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.45 / 83
p0 0.04741 ± 0.057
pull
Entries 84
Mean −206.3
Std Dev 0

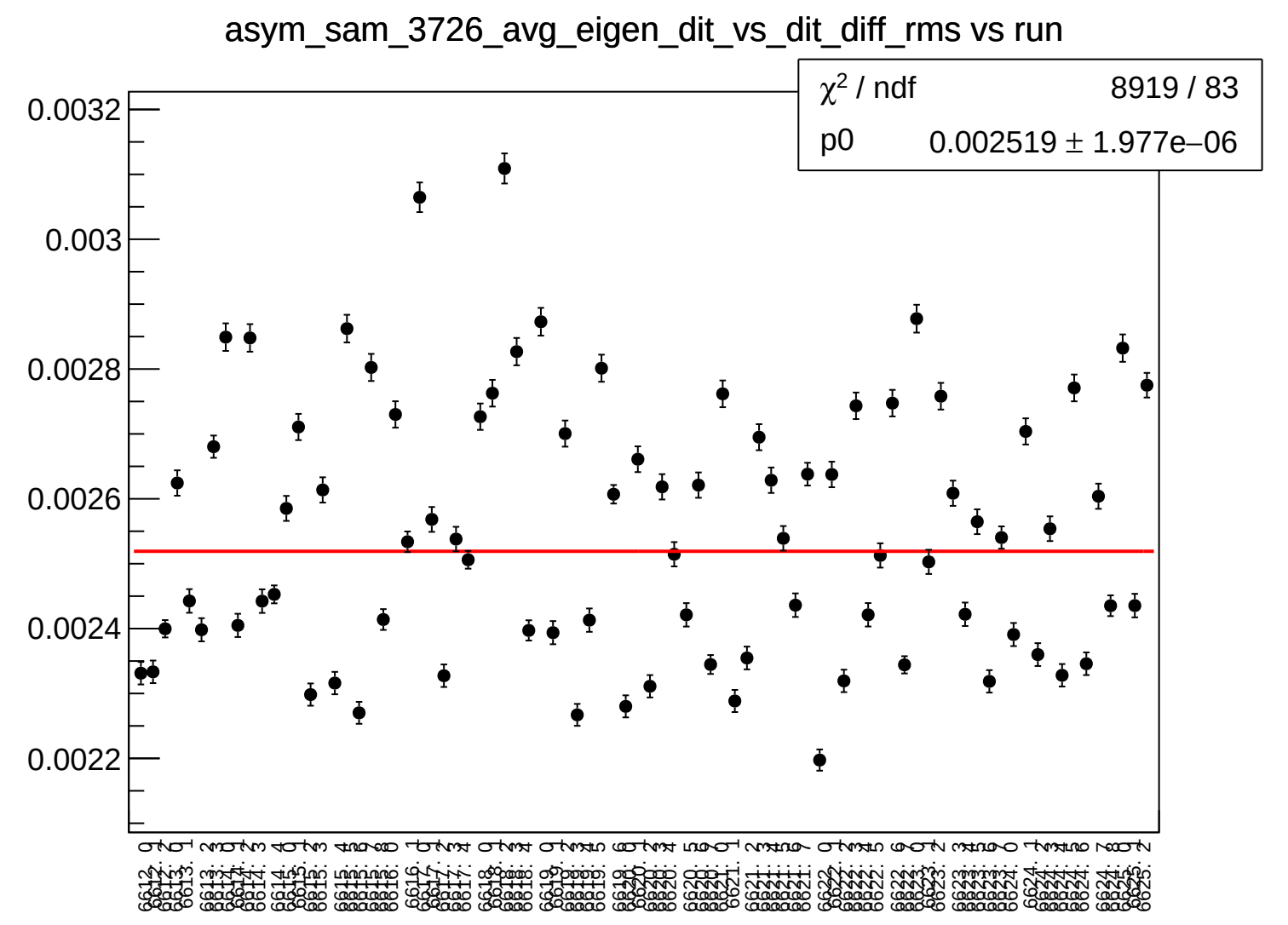

pull1D
Entries 84
Mean 0.007397
Std Dev 0.8961

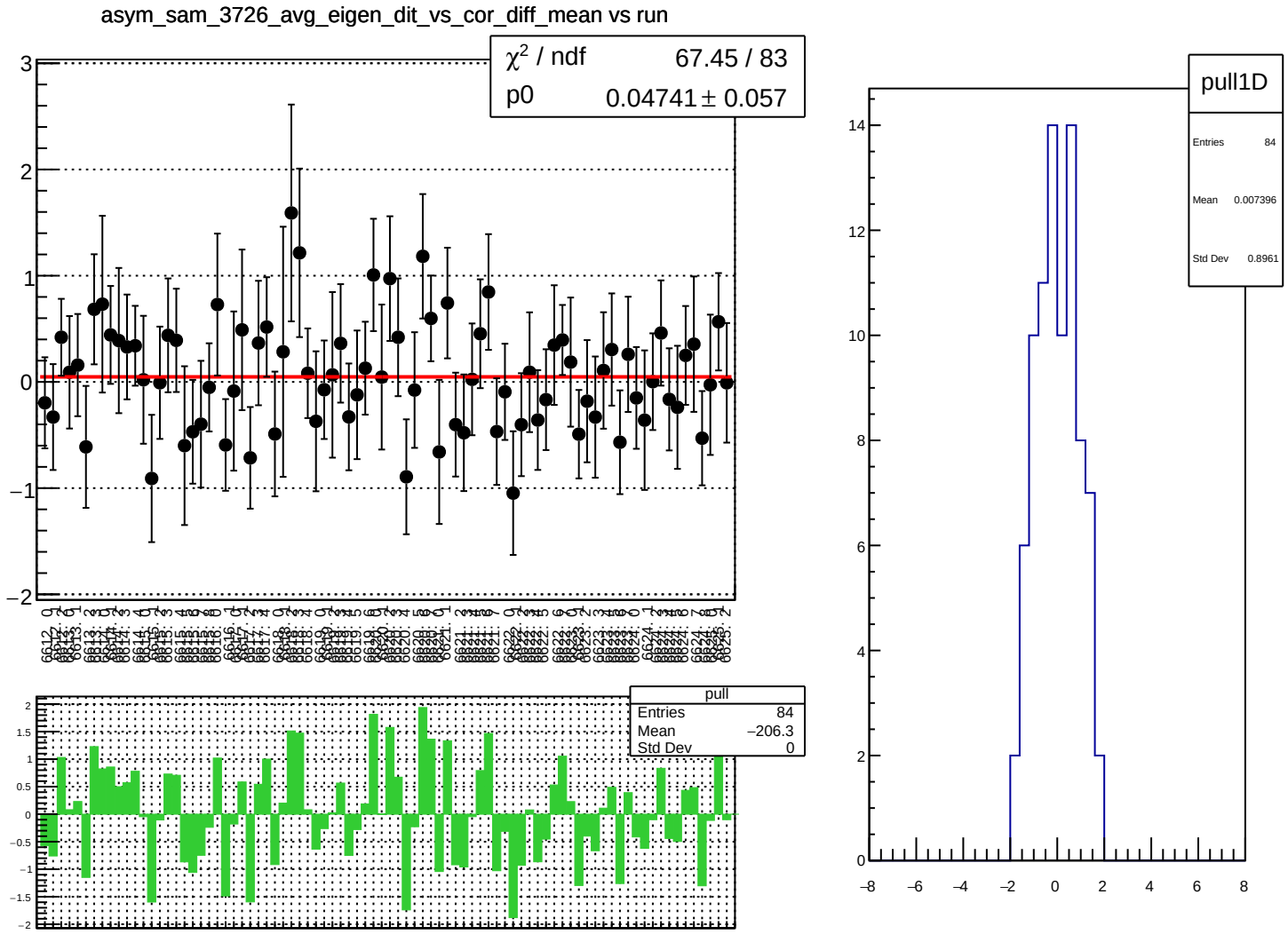

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.178e+04 / 83
p0 50.83 ± 0.0403
110
100
90
80
70
60
50
40

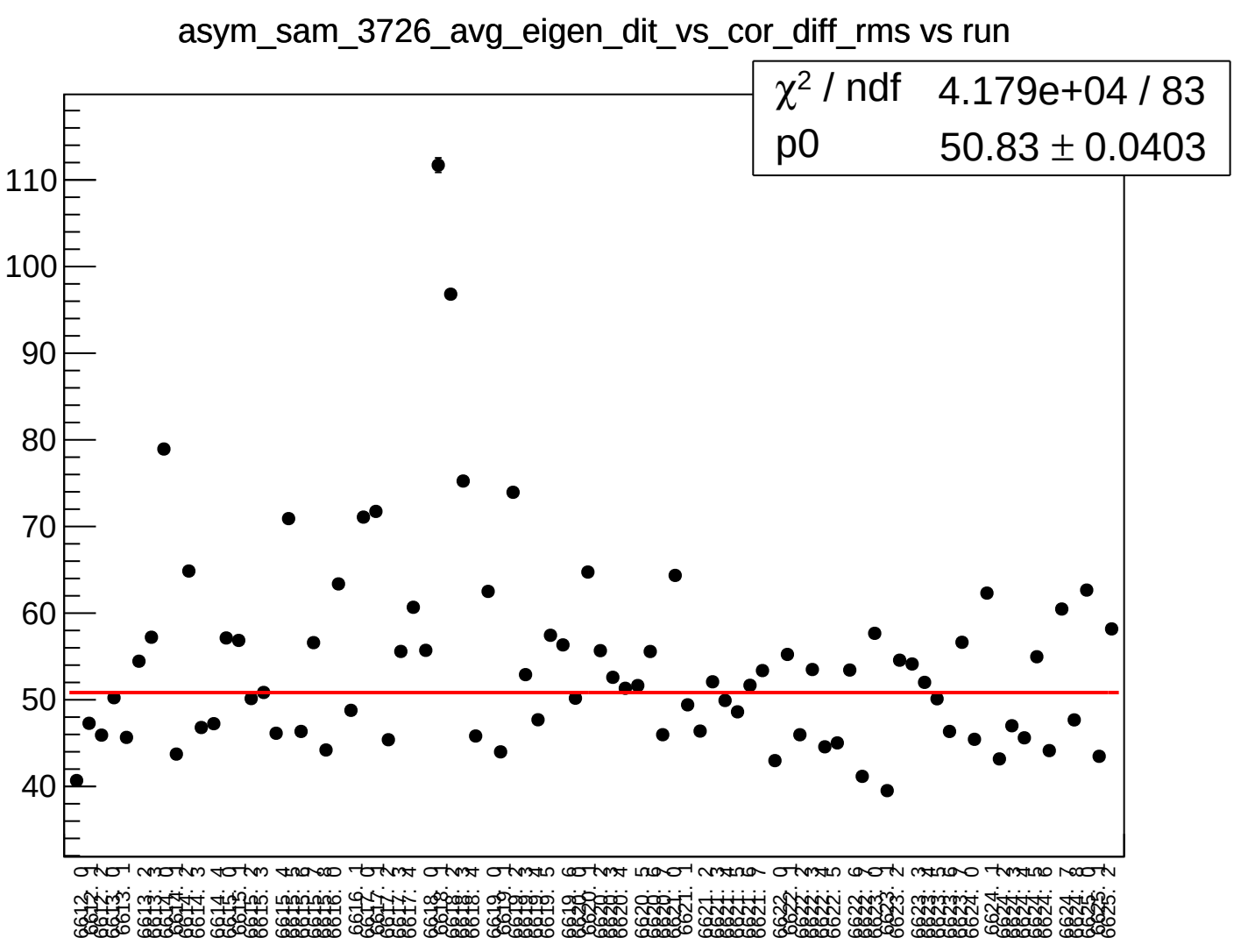

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.45 / 83
p0 0.04741 ± 0.057
pull
Entries 84
Mean −206.3
Std Dev 0
pull1D
Entries 84
Mean 0.007397
Std Dev 0.8961

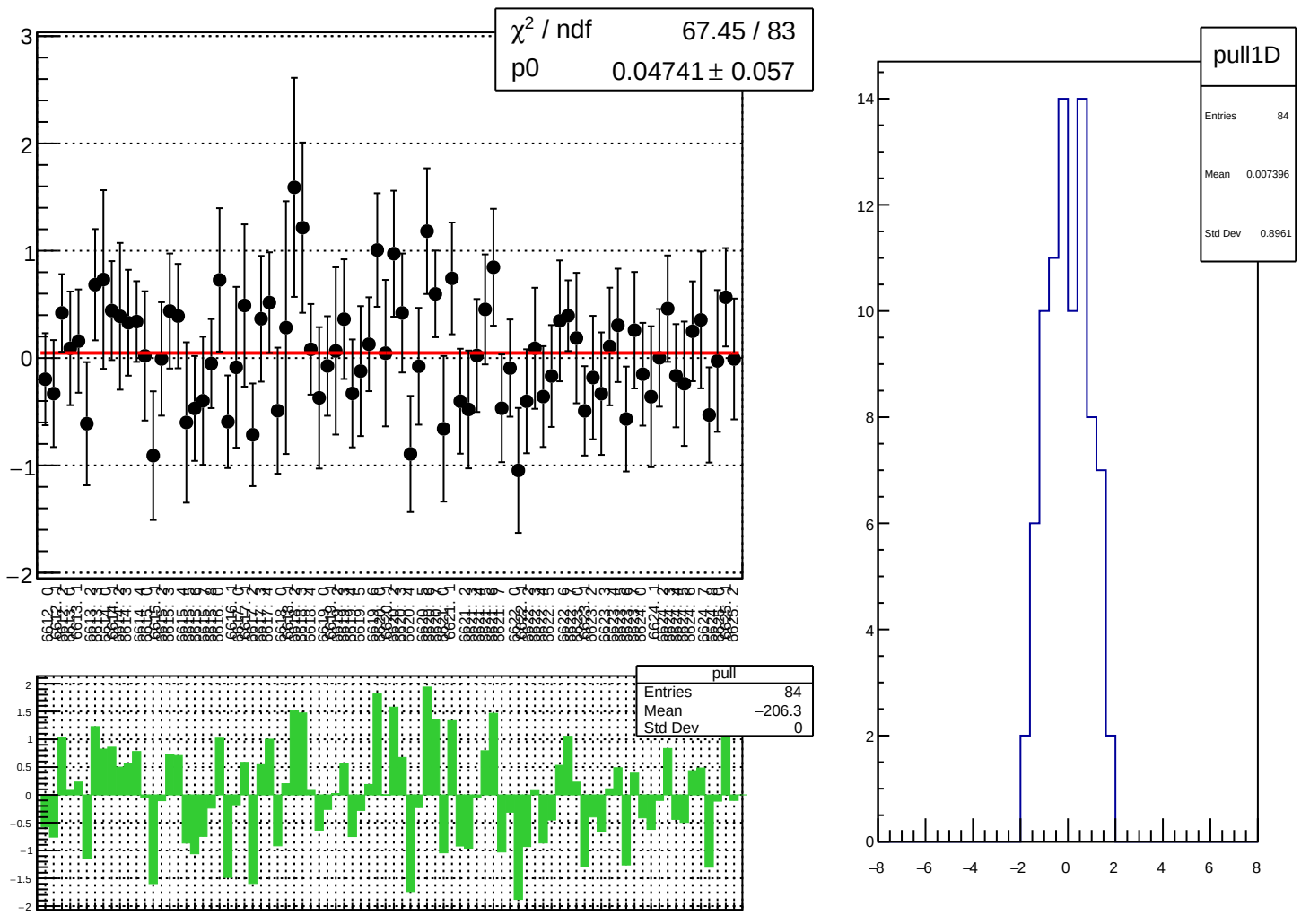

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.178e+04 / 83
p0 50.83 ± 0.0403
110
100
90
80
70
60
50
40

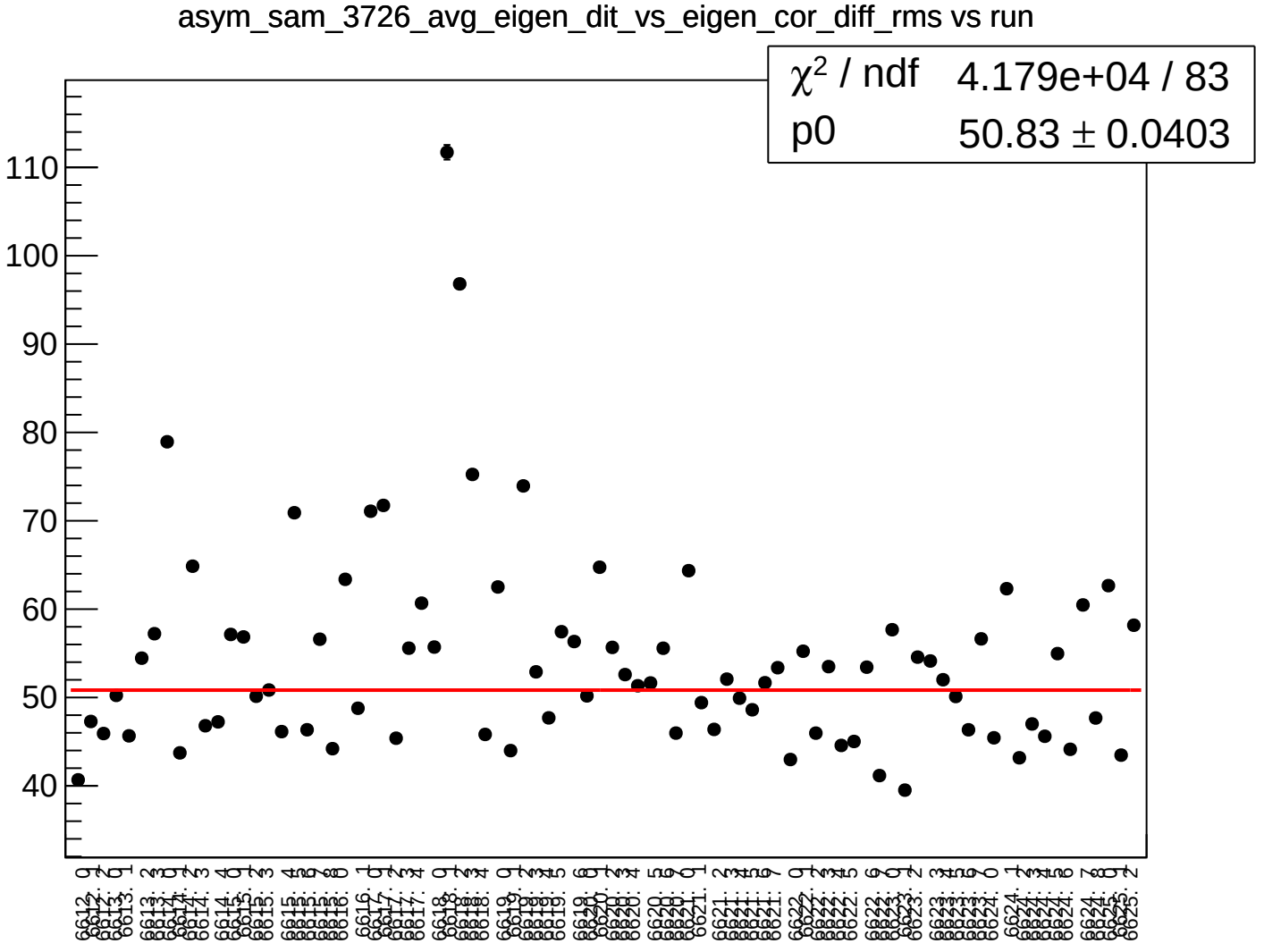

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.61 / 83
p0 2.794e−06 ± 2.796e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean 90.44
Std Dev 13.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 84
Mean −0.01541
Std Dev 0.936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

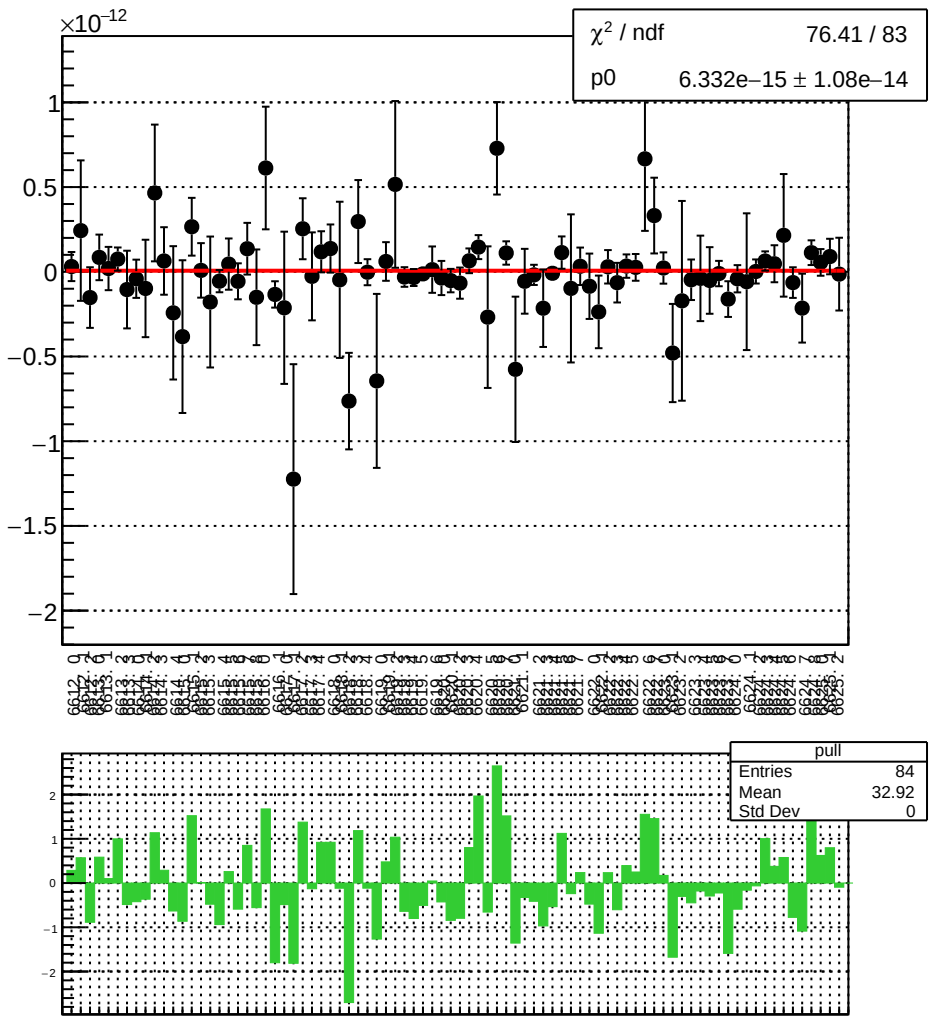

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8919 / 83
p0 0.002519 ± 1.977e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

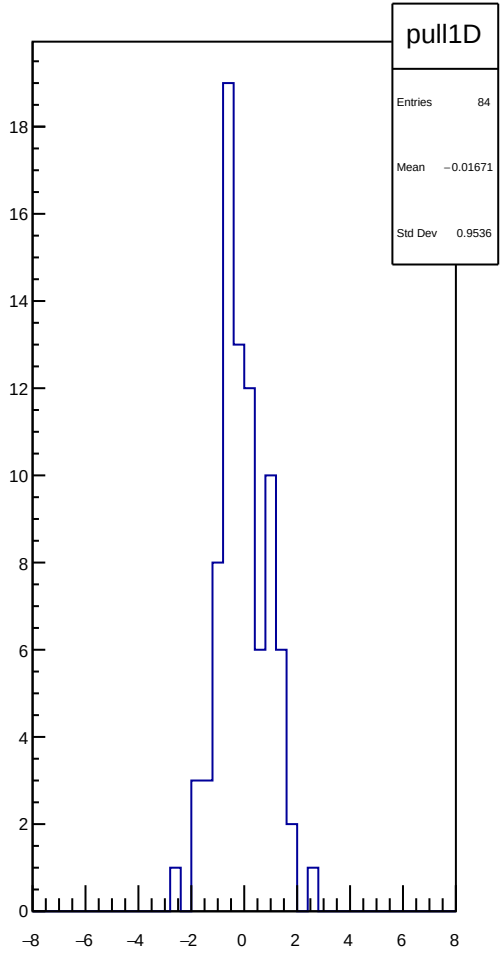

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.45 / 83
p0 0.04741 ± 0.057
pull
Entries 84
Mean −206.3
Std Dev 0
pull1D
Entries 84
Mean 0.007396
Std Dev 0.8961

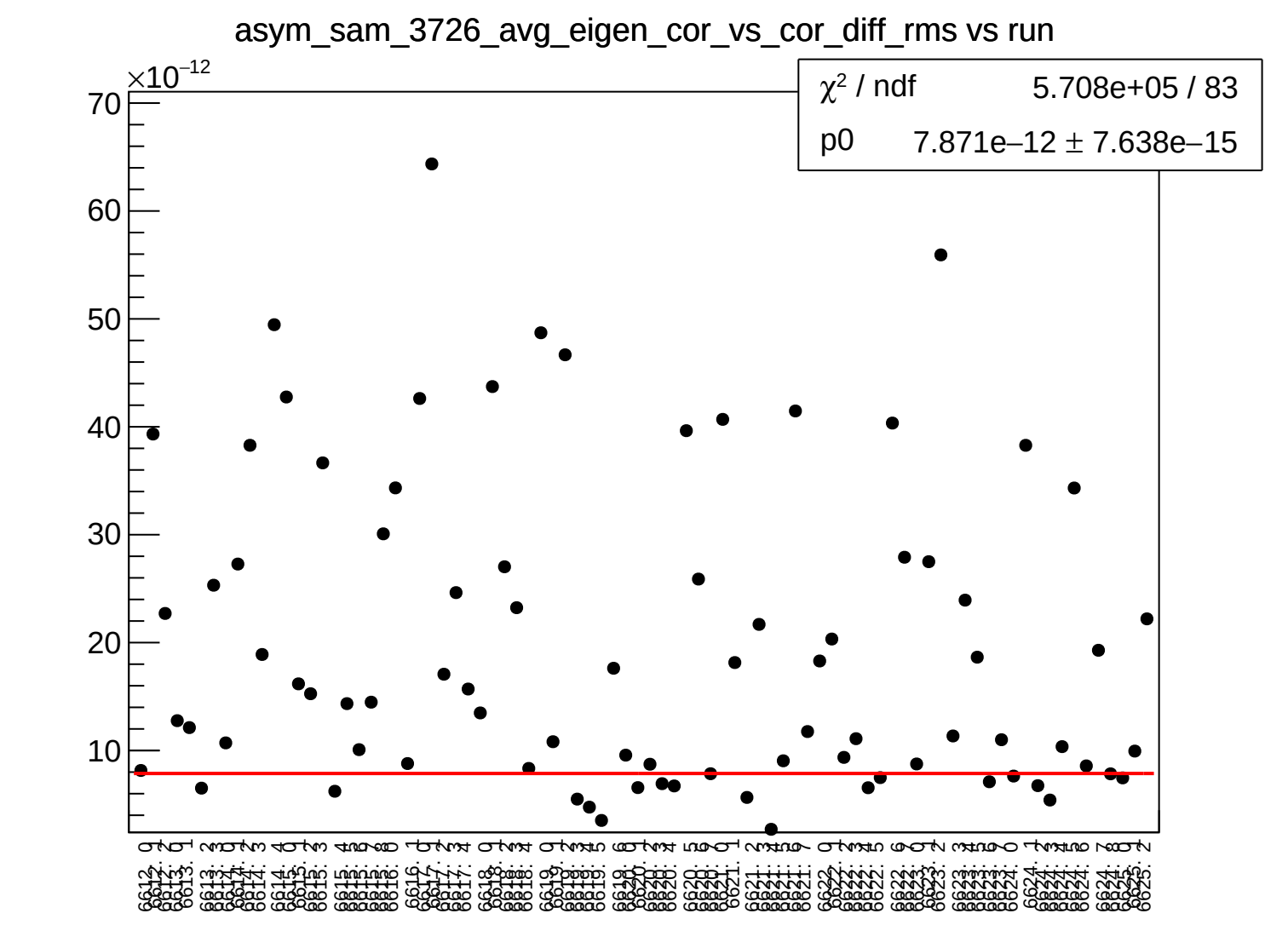

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.179e+04 / 83
p0 50.83 ± 0.0403
110
100
90
80
70
60
50
40

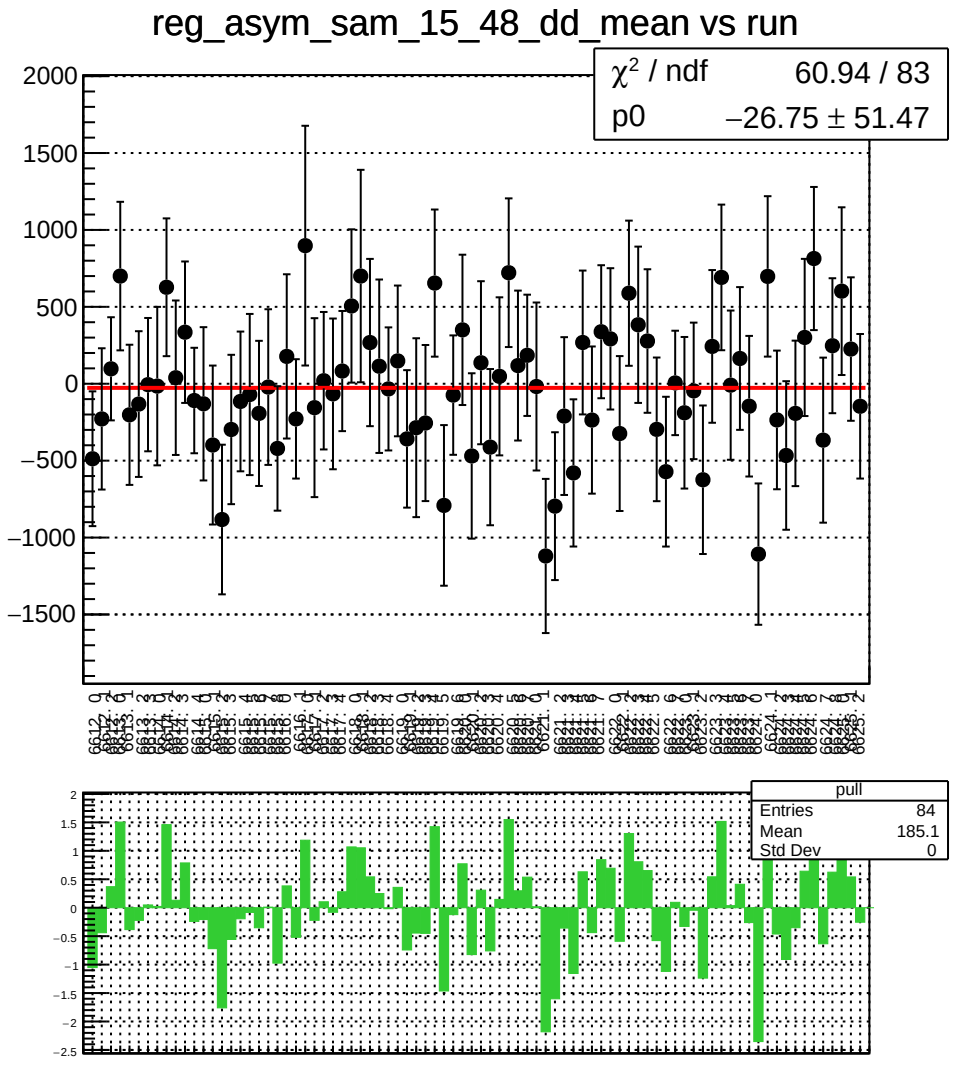

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.45 / 83
p0 0.04741 ± 0.057
pull
Entries 84
Mean −206.3
Std Dev 0
pull1D
Entries 84
Mean 0.007396
Std Dev 0.8961

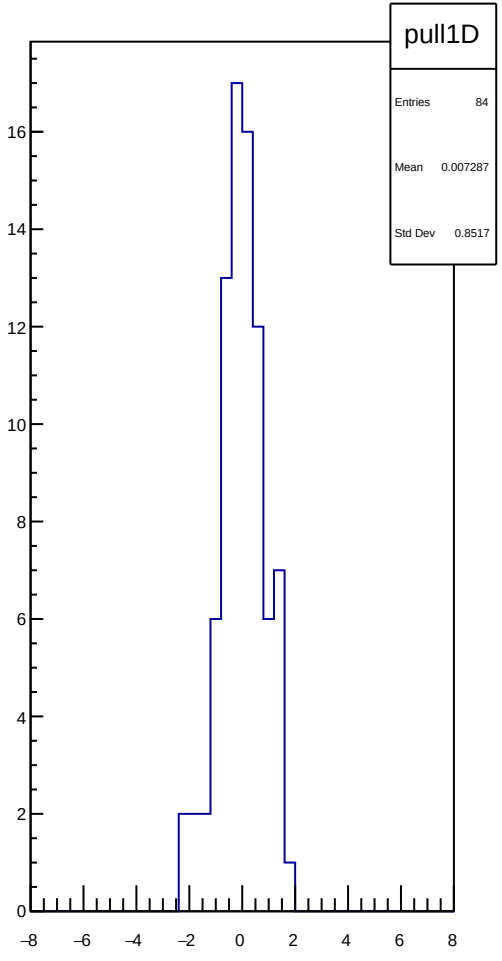

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.179e+04 / 83
p0 50.83 ± 0.0403
110
100
90
80
70
60
50
40

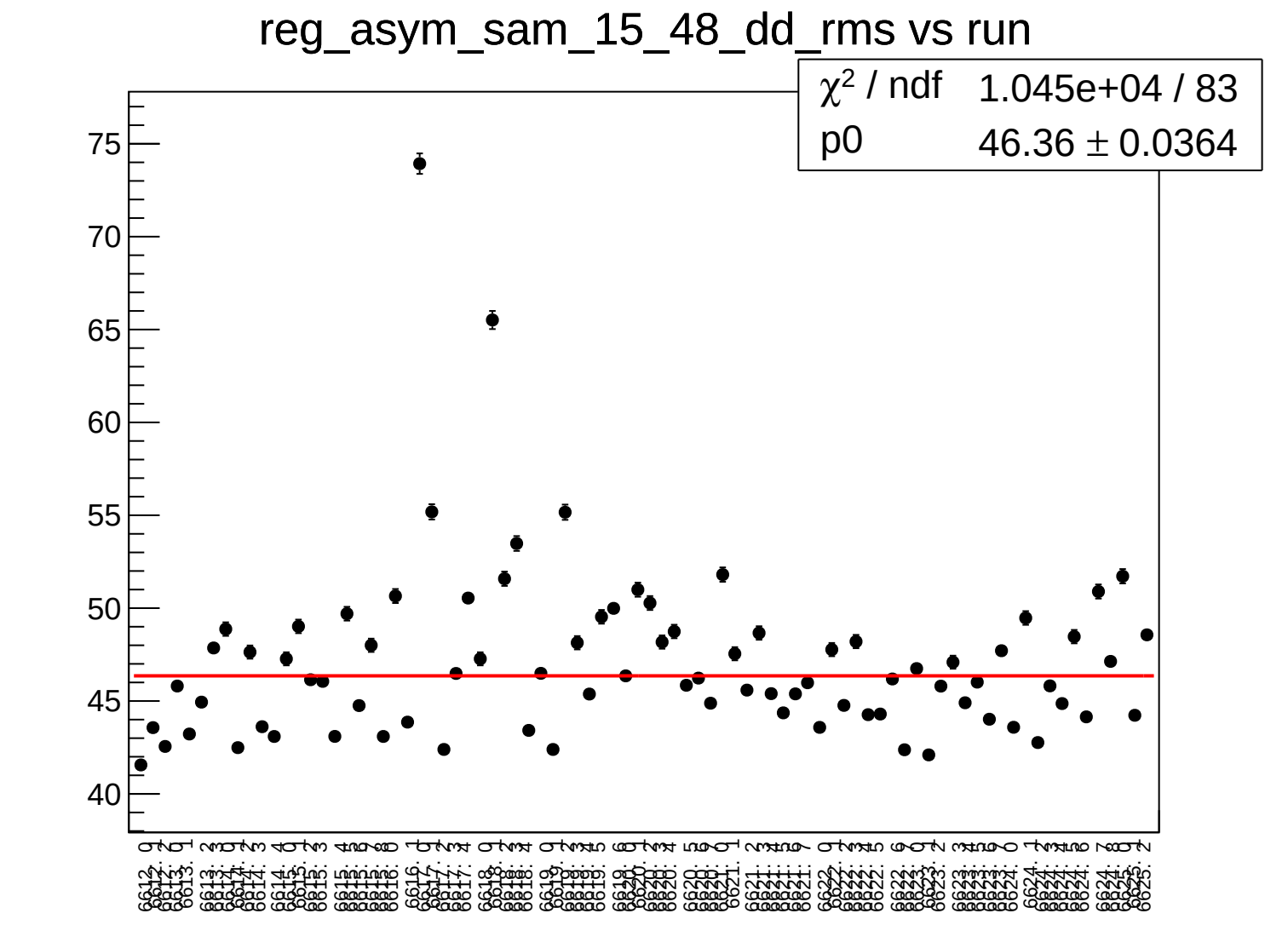

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.41 / 83
p0 6.332e−15 ± 1.08e−14
pull
Entries 84
Mean 32.92
Std Dev 0

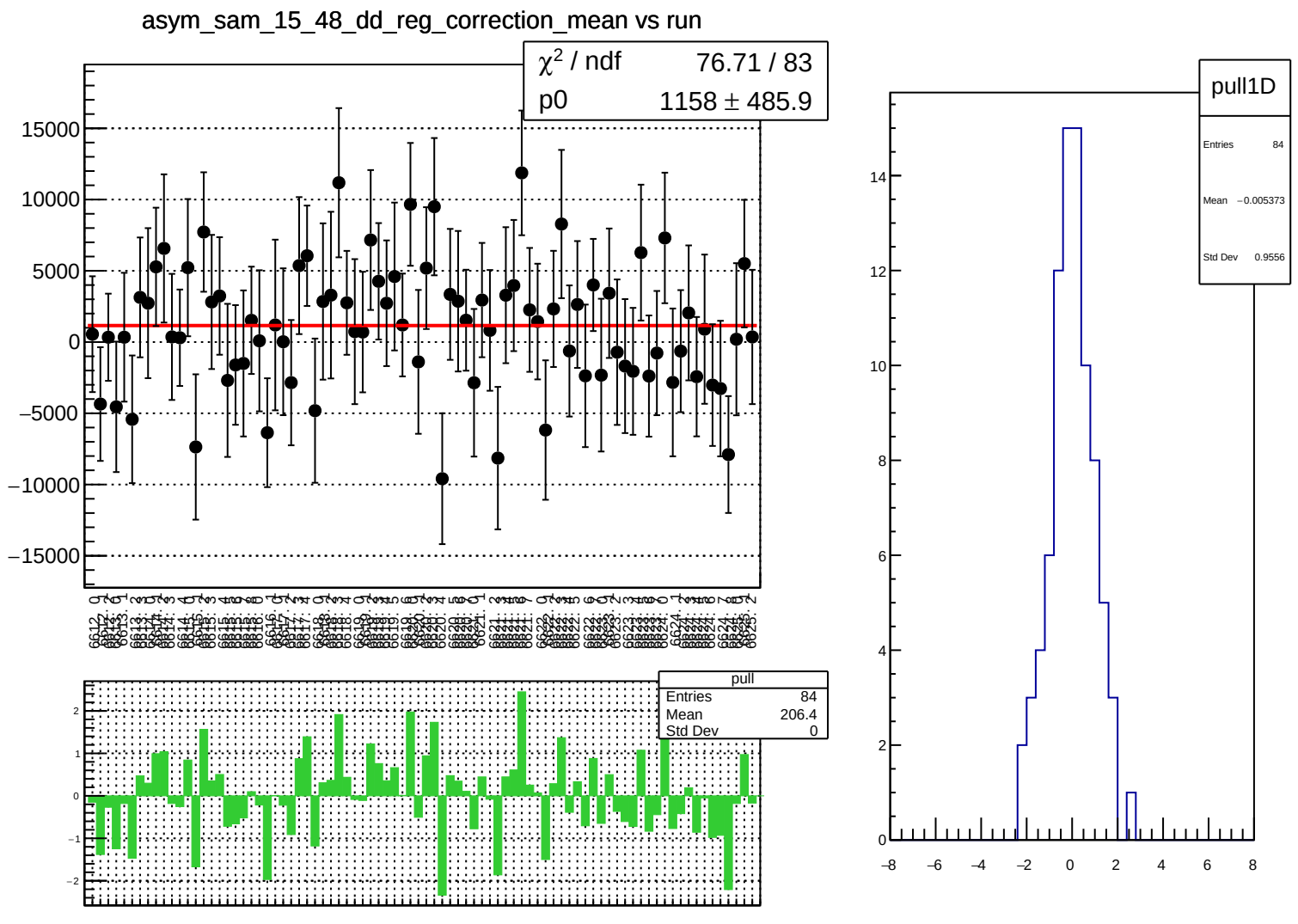

pull1D
Entries 84
Mean −0.01671
Std Dev 0.9536

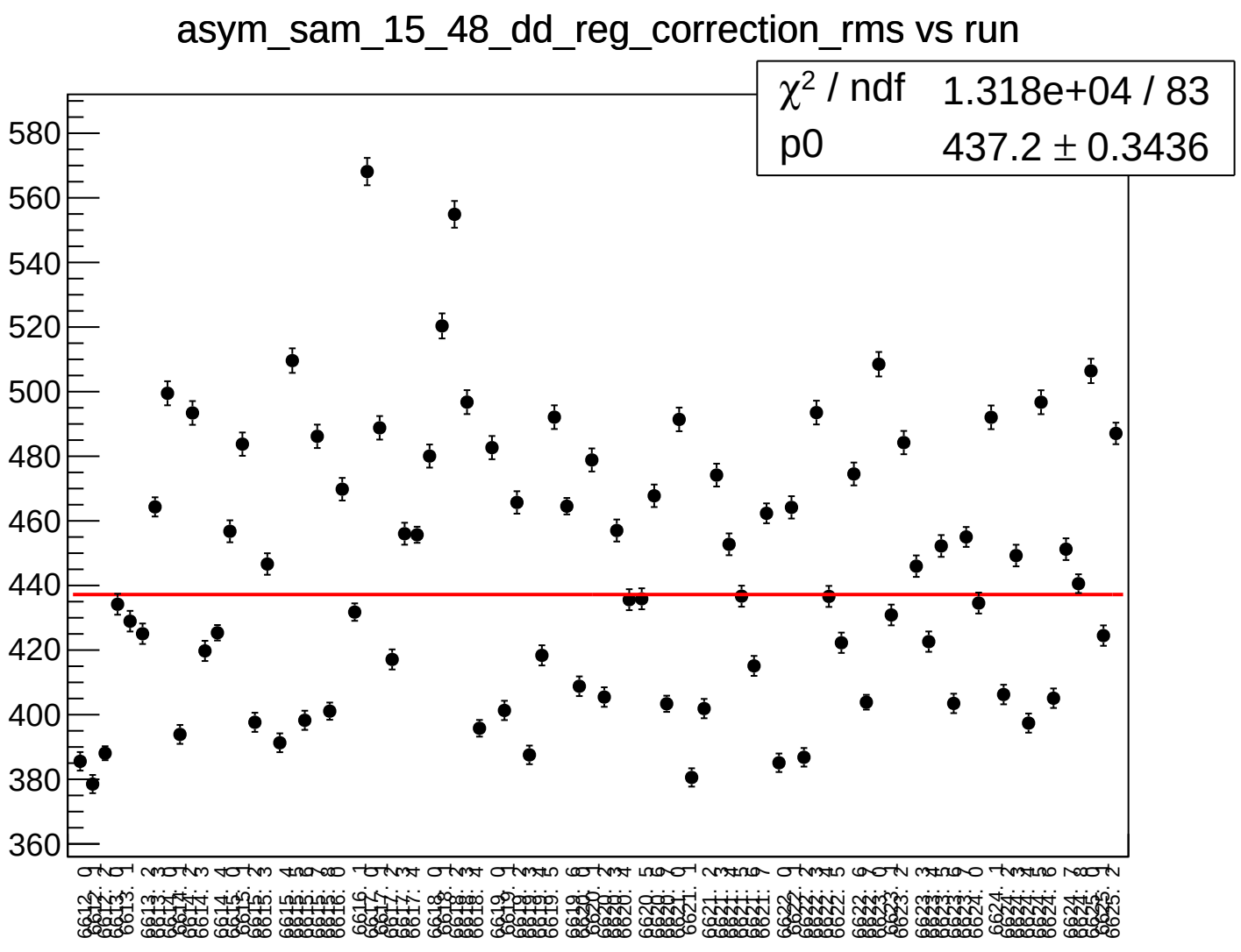

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 5.708e+05 / 83
p0 7.871e−12 ± 7.638e−15

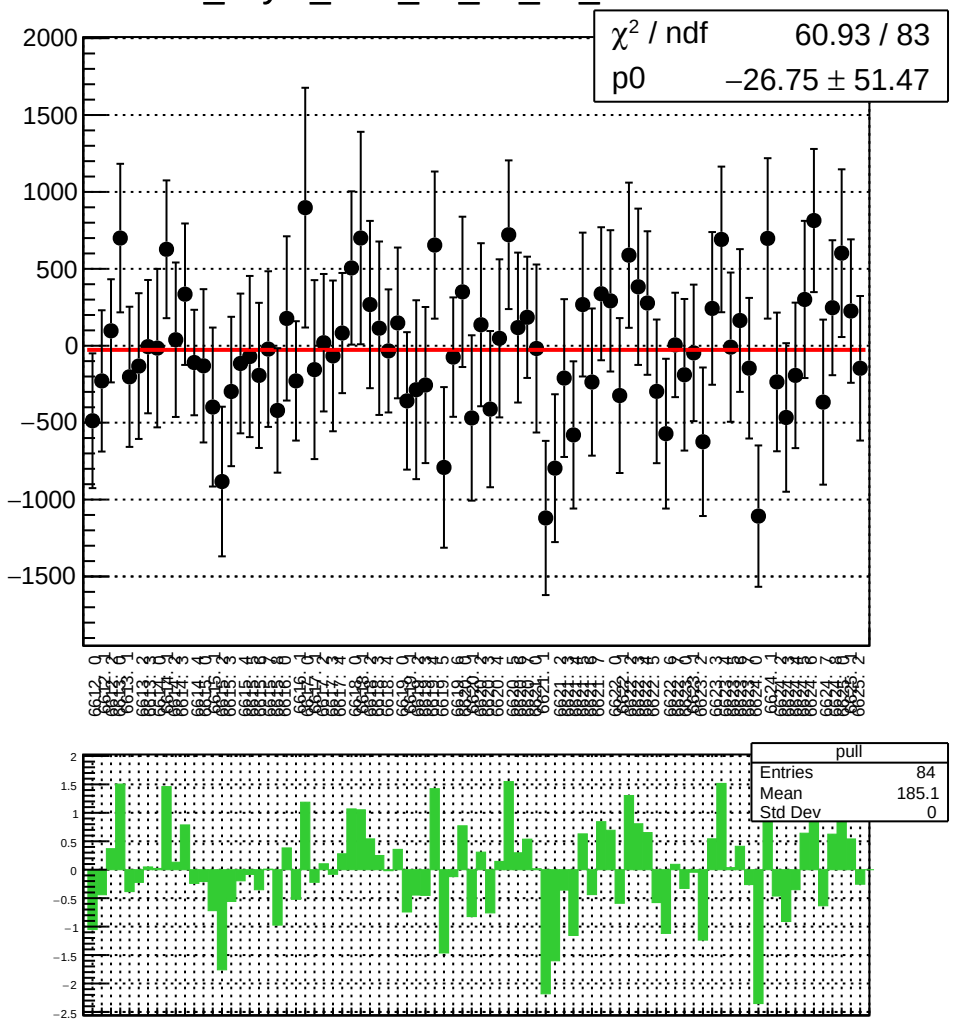

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 60.94 / 83
p0 −26.75 ± 51.47
pull
Entries 84
Mean 185.1
Std Dev 0

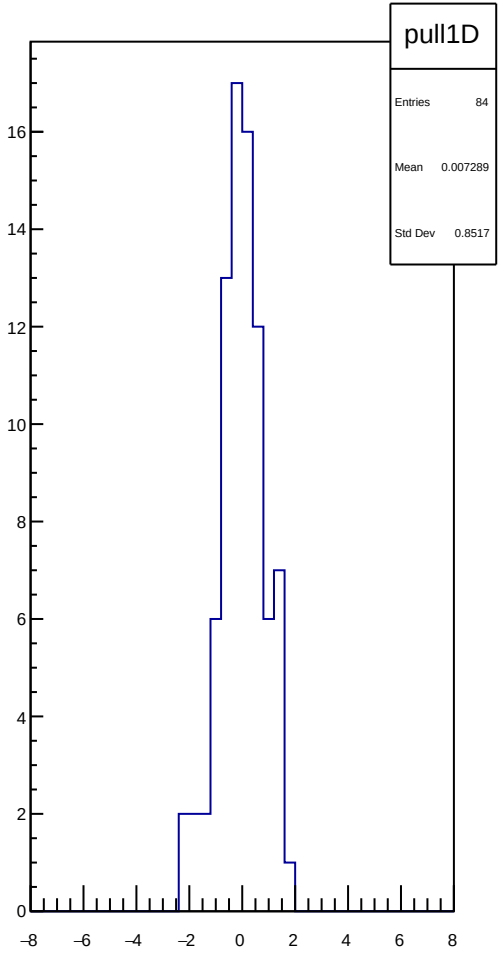

pull1D
Entries 84
Mean 0.007287
Std Dev 0.8517

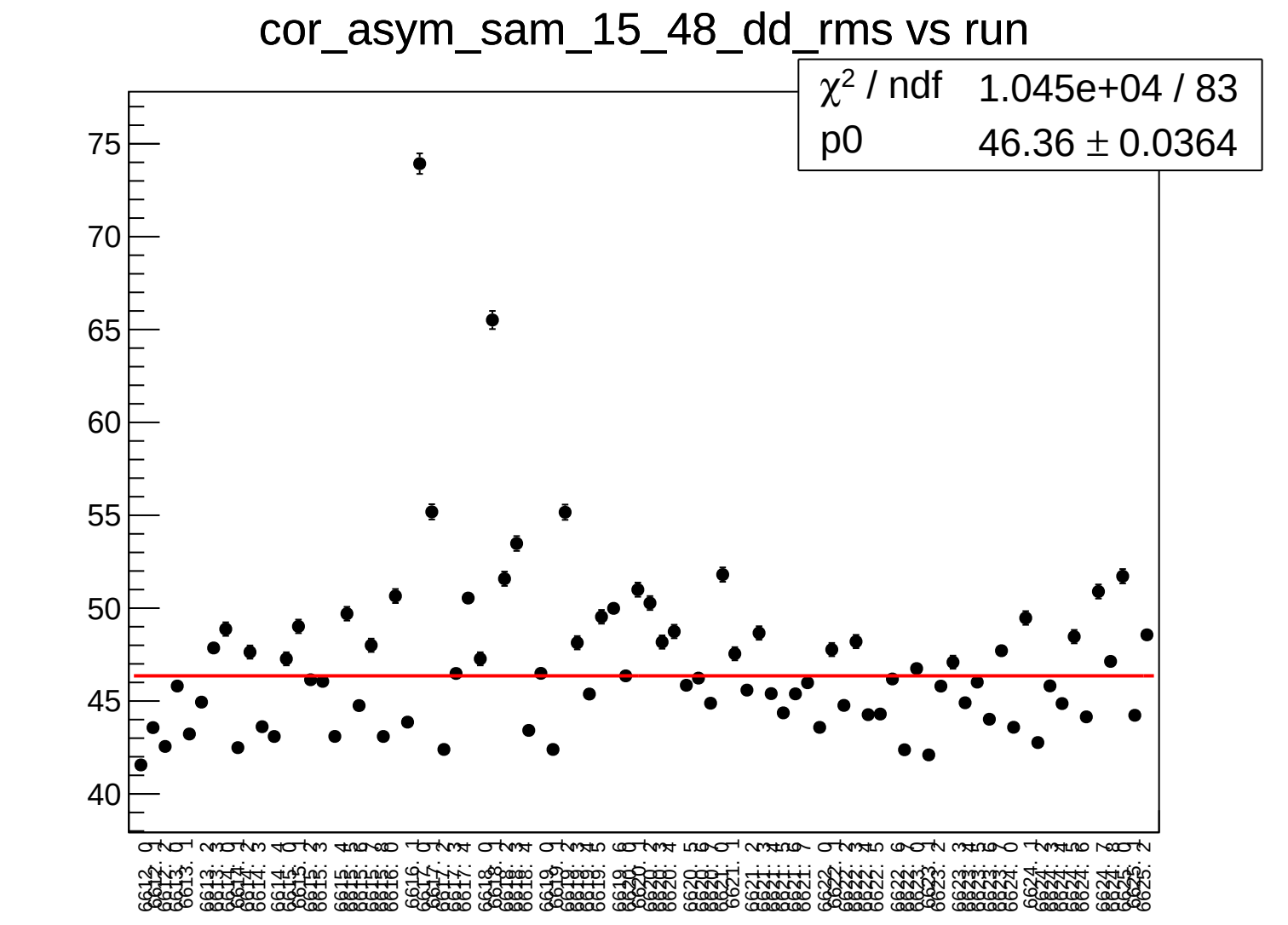

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.045e+04 / 83
p0 46.36 ± 0.0364
75
70
65
60
55
50
45
40

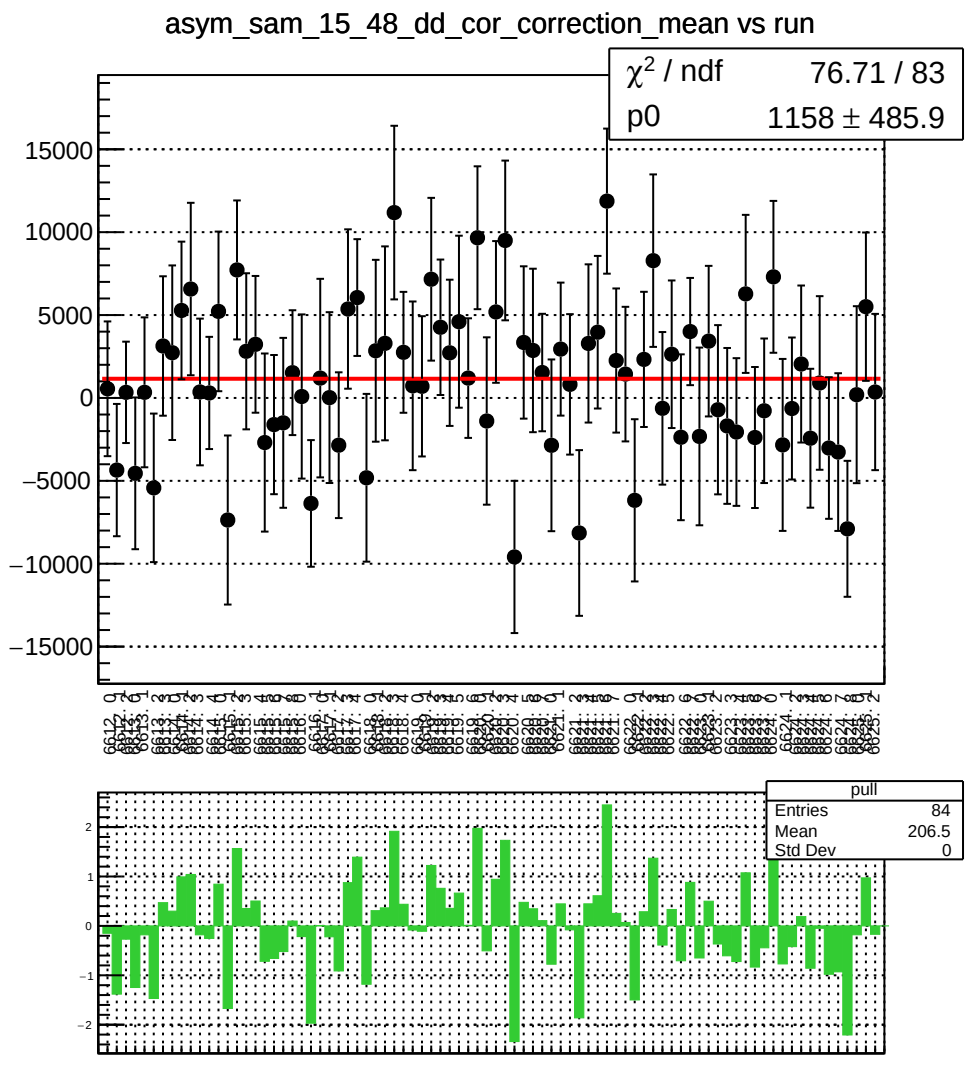

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 76.71 / 83
p0 1158 ± 485.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 206.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.005373
Std Dev 0.9556
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

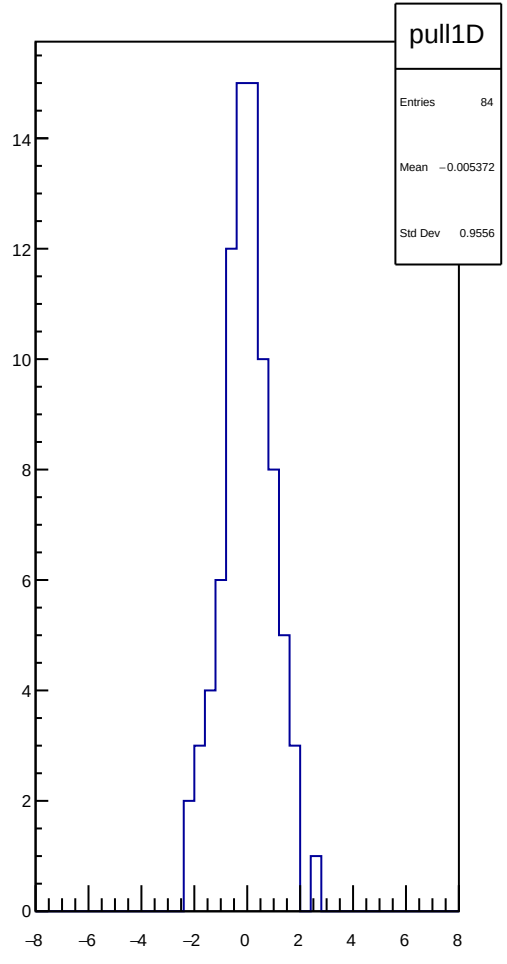

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1.318e+04 / 83
p0 437.2 ± 0.3436
580
560
540
520
500
480
460
440
420
400
380
360

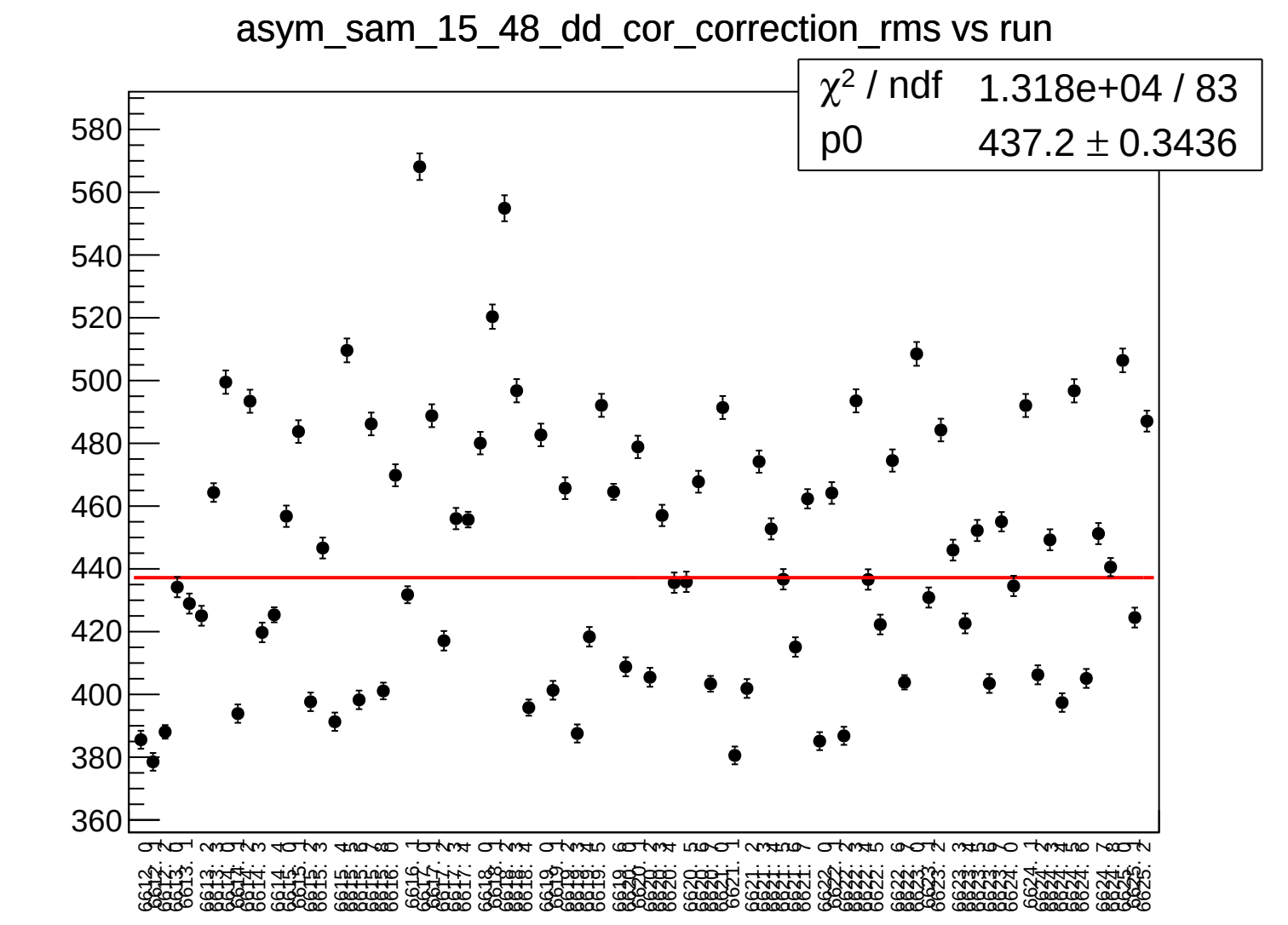

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 60.93 / 83
p0 −26.75 ± 51.47
pull
Entries 84
Mean 185.1
Std Dev 0

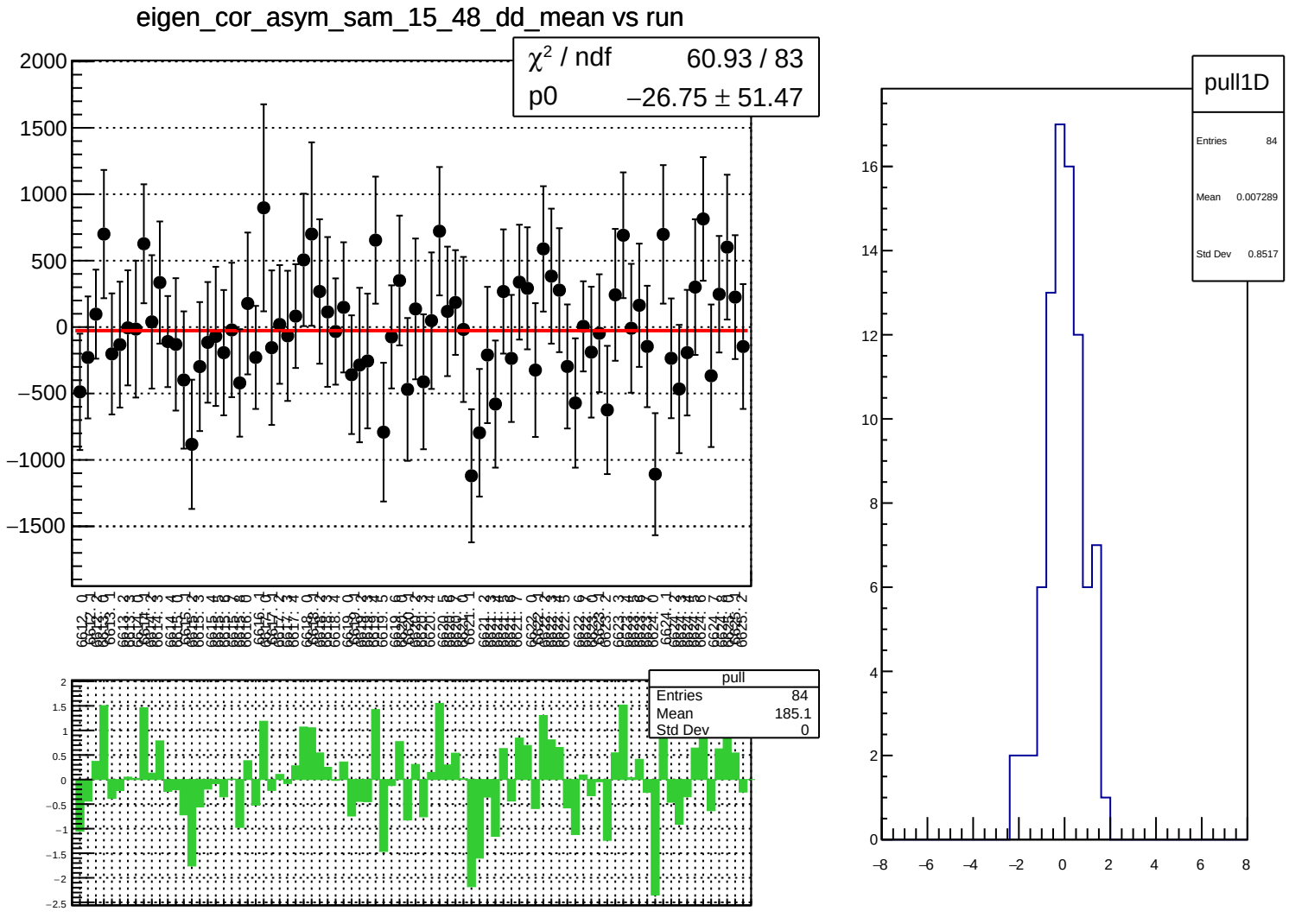

pull1D
Entries 84
Mean 0.007289
Std Dev 0.8517

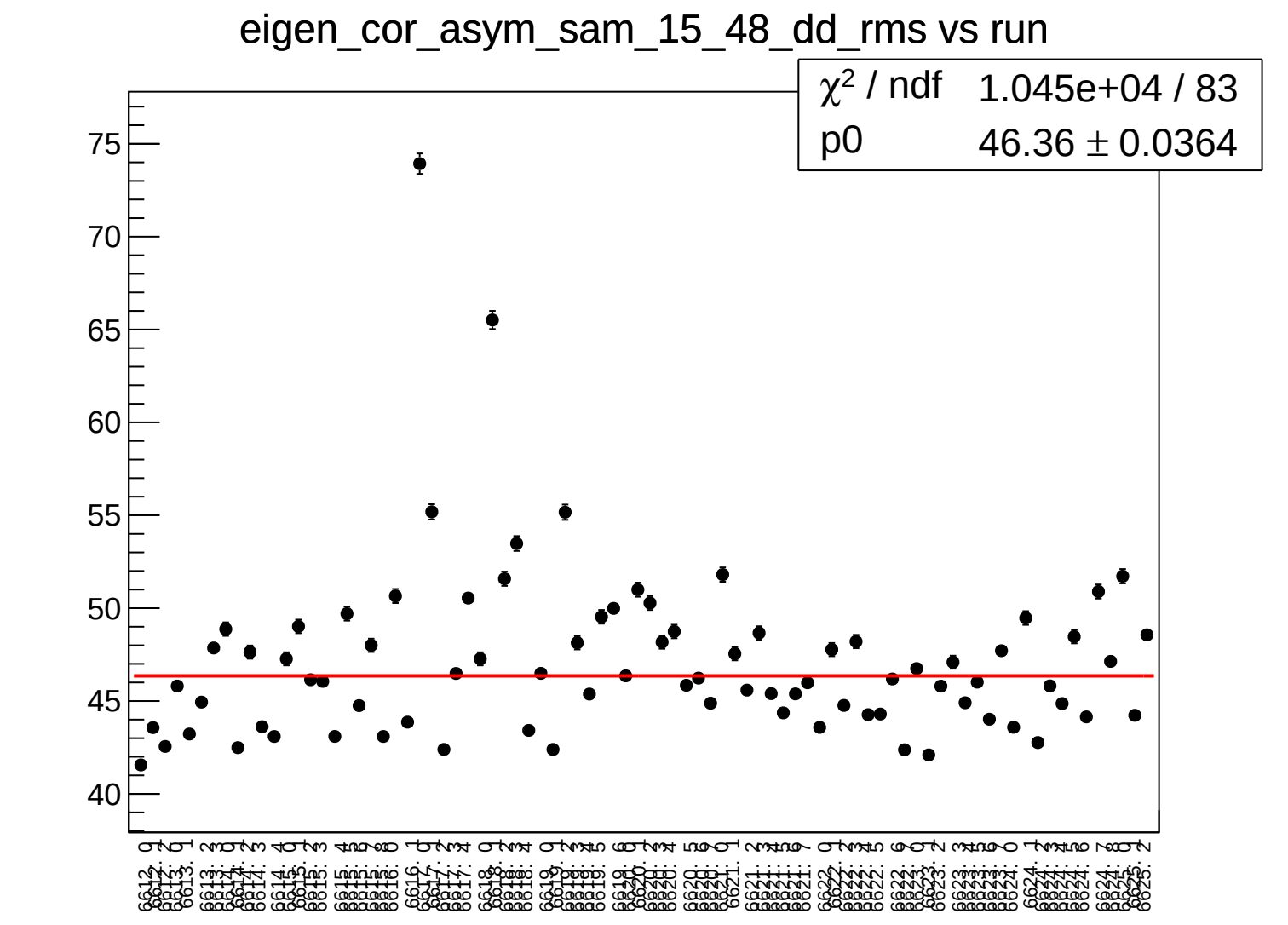

cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.045e+04 / 83
p0 46.36 ± 0.0364
75
70
65
60
55
50
45
40

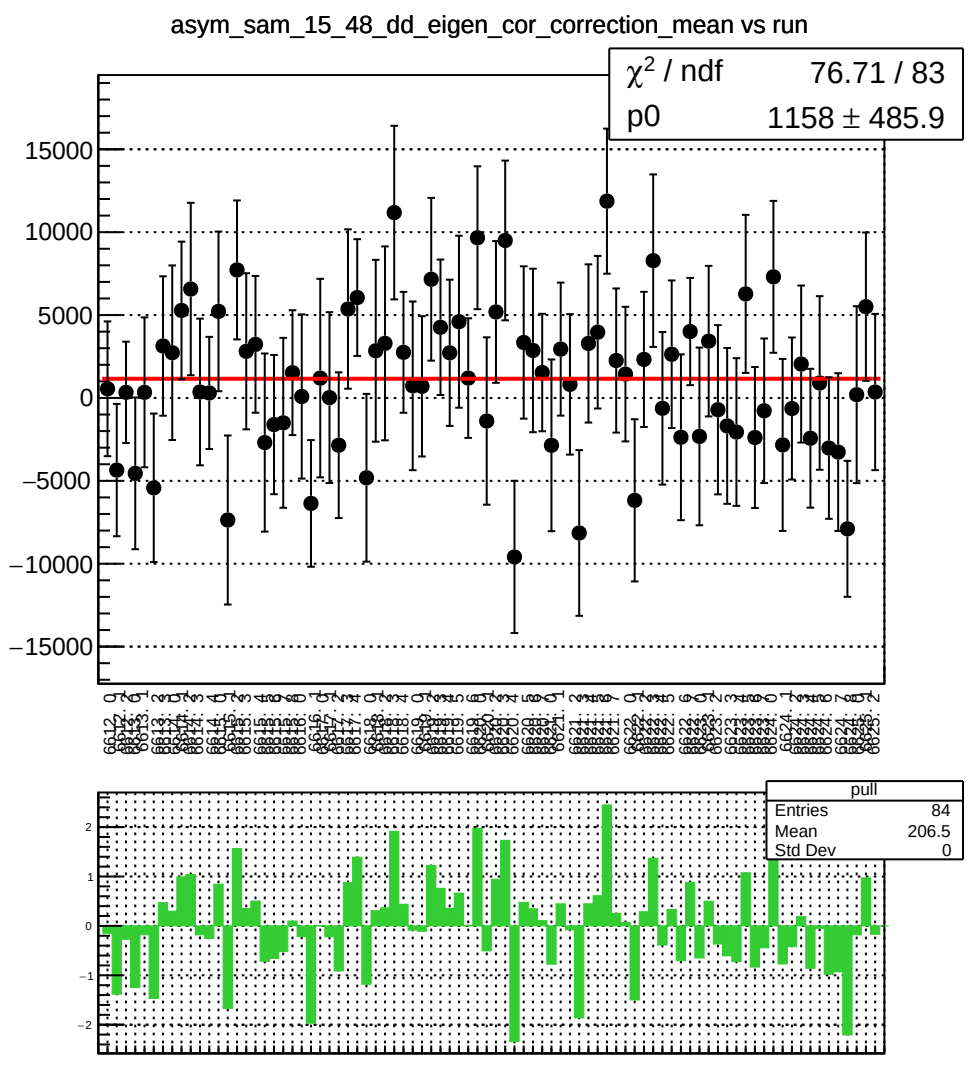

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 76.71 / 83
p0 1158 ± 485.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 206.5
Std Dev 0
2
1
0
−1
−2

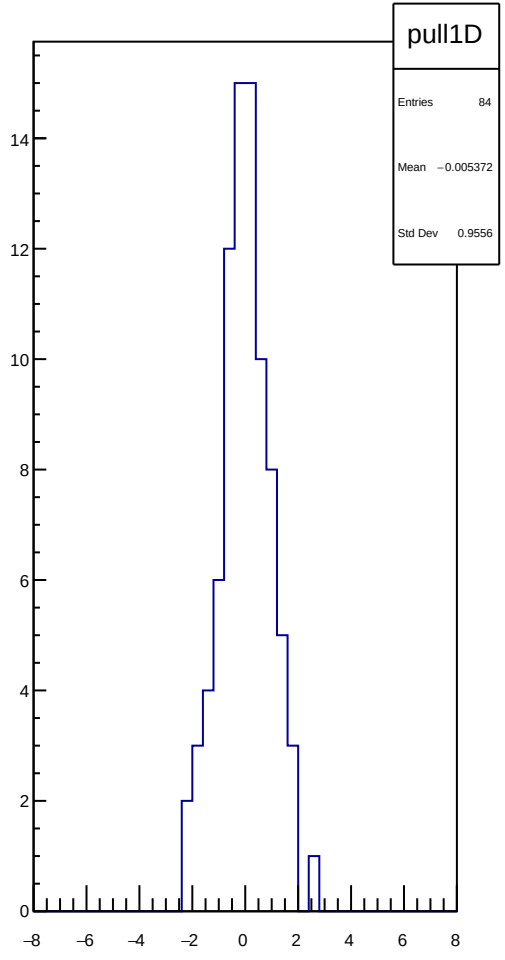

pull1D
Entries 84
Mean −0.005372
Std Dev 0.9556
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

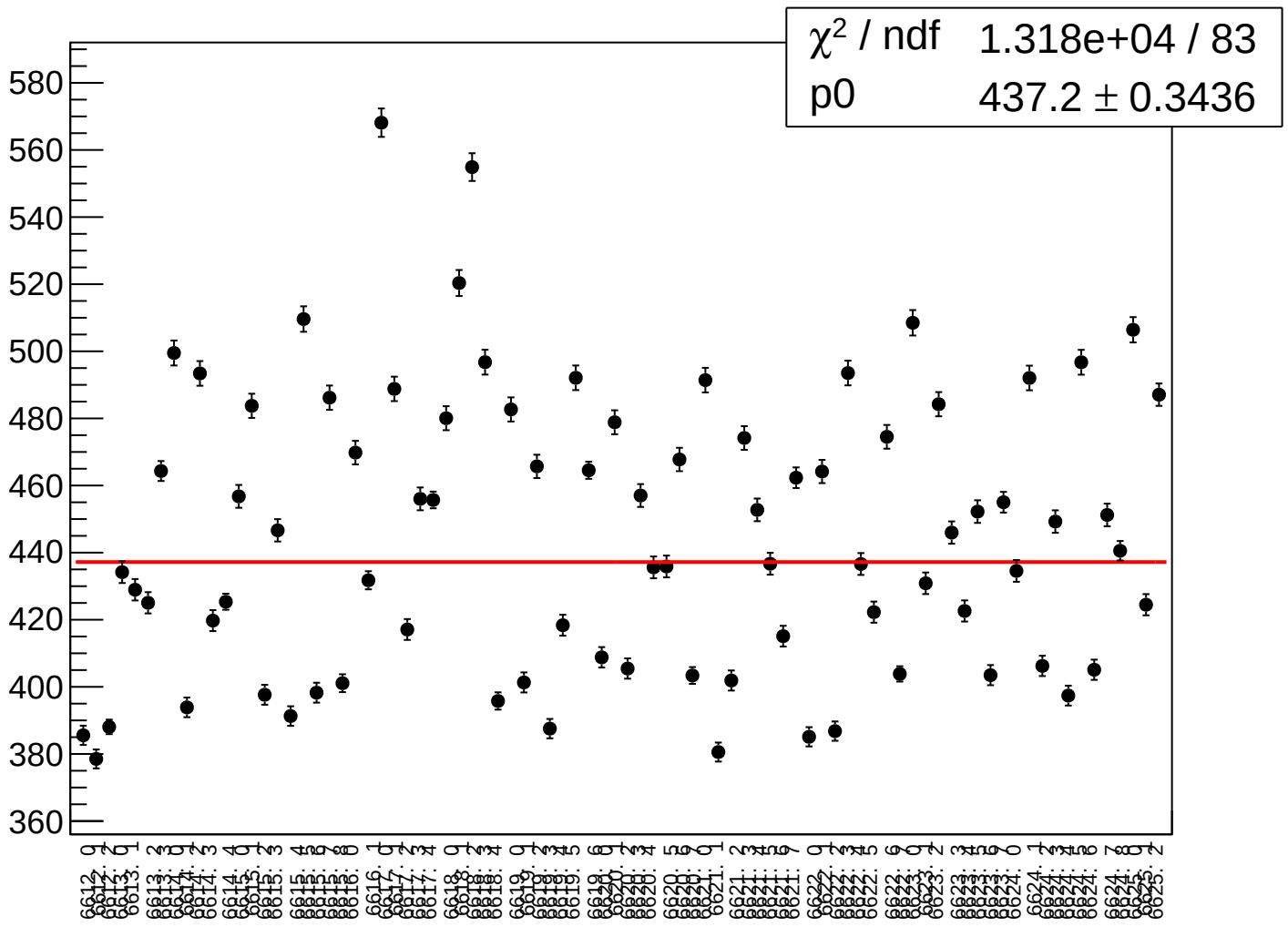

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1.318e+04 / 83
p0 437.2 ± 0.3436
580
560
540
520
500
480
460
440
420
400
380
360

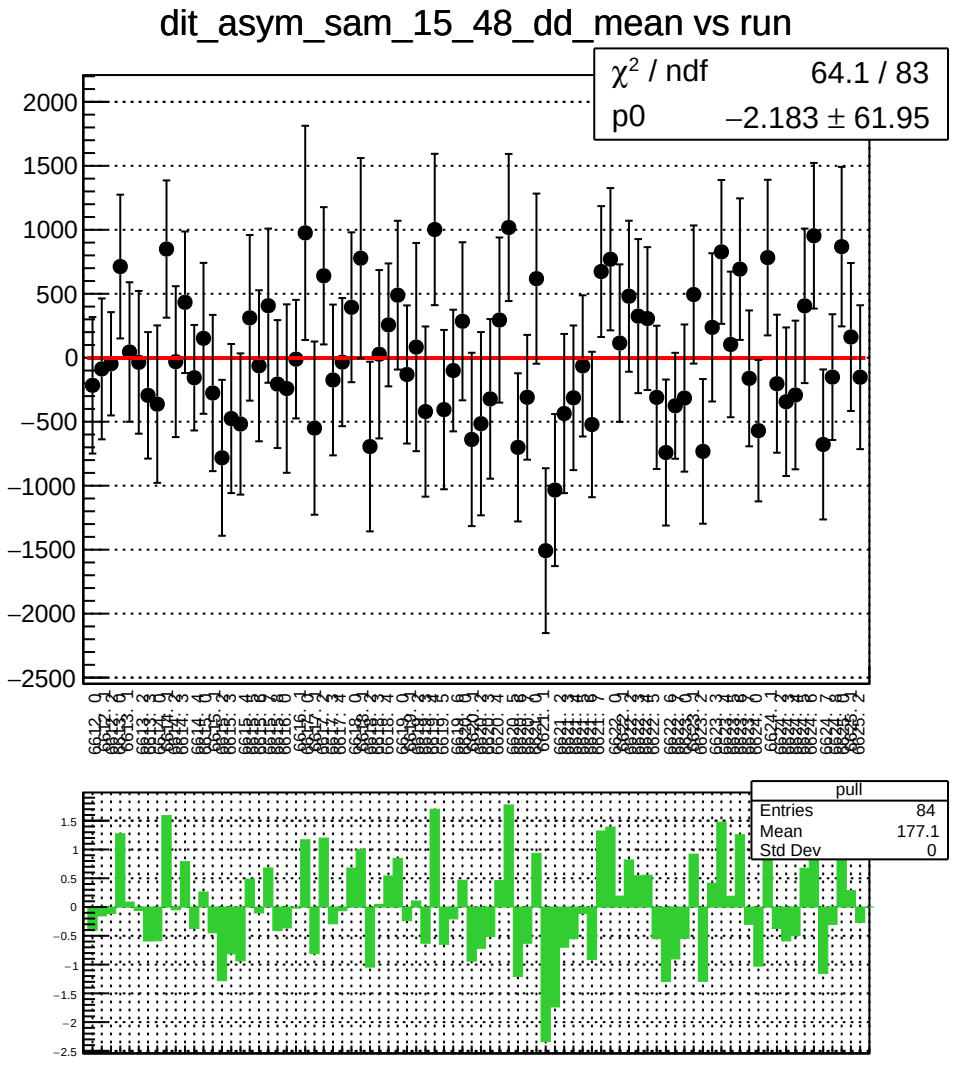

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 60.93 / 83
p0 −26.75 ± 51.47
pull
Entries 84
Mean 185.1
Std Dev 0
pull1D
Entries 84
Mean 0.007289
Std Dev 0.8517

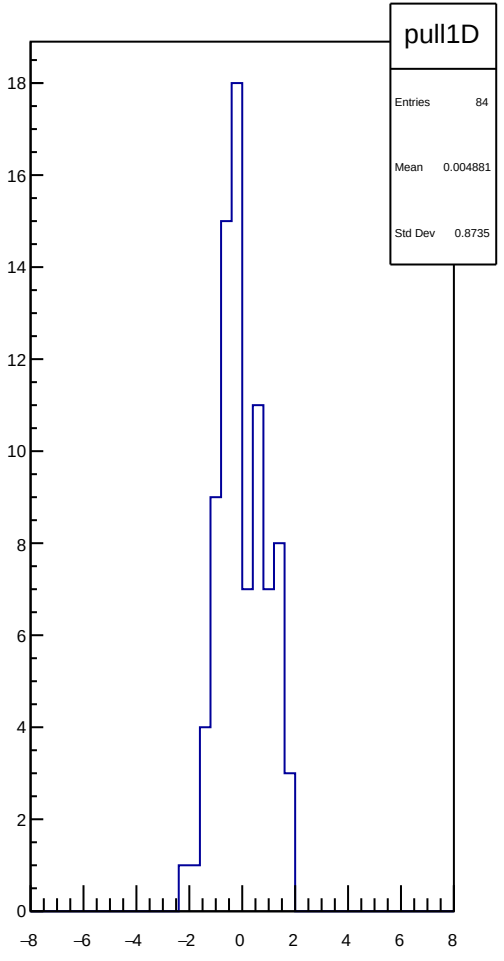

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.045e+04 / 83
p0 46.36 ± 0.0364
75
70
65
60
55
50
45
40

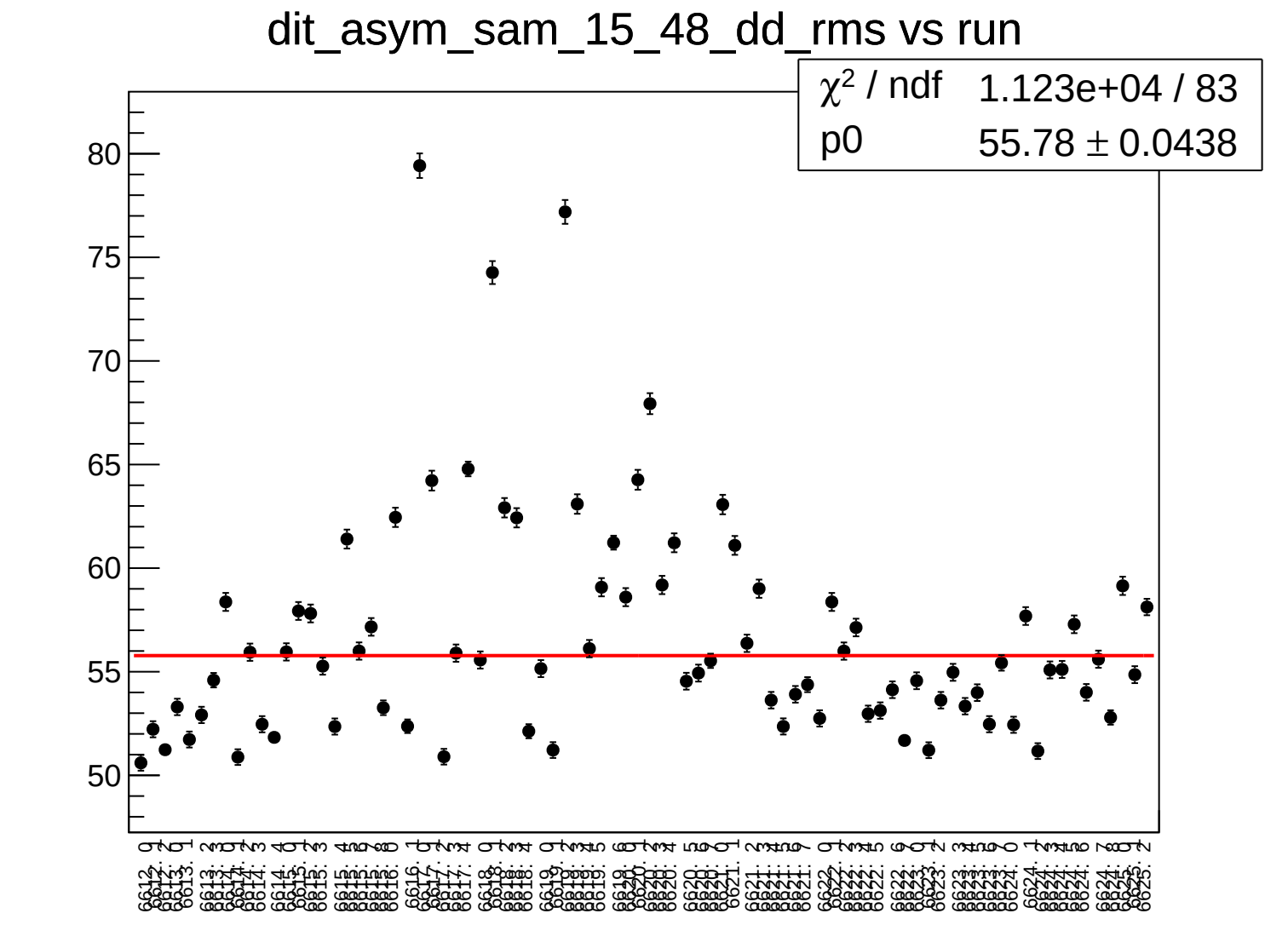

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.71 / 83
p0 1158 ± 485.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 206.5
Std Dev 0
2
1
0
−1
−2

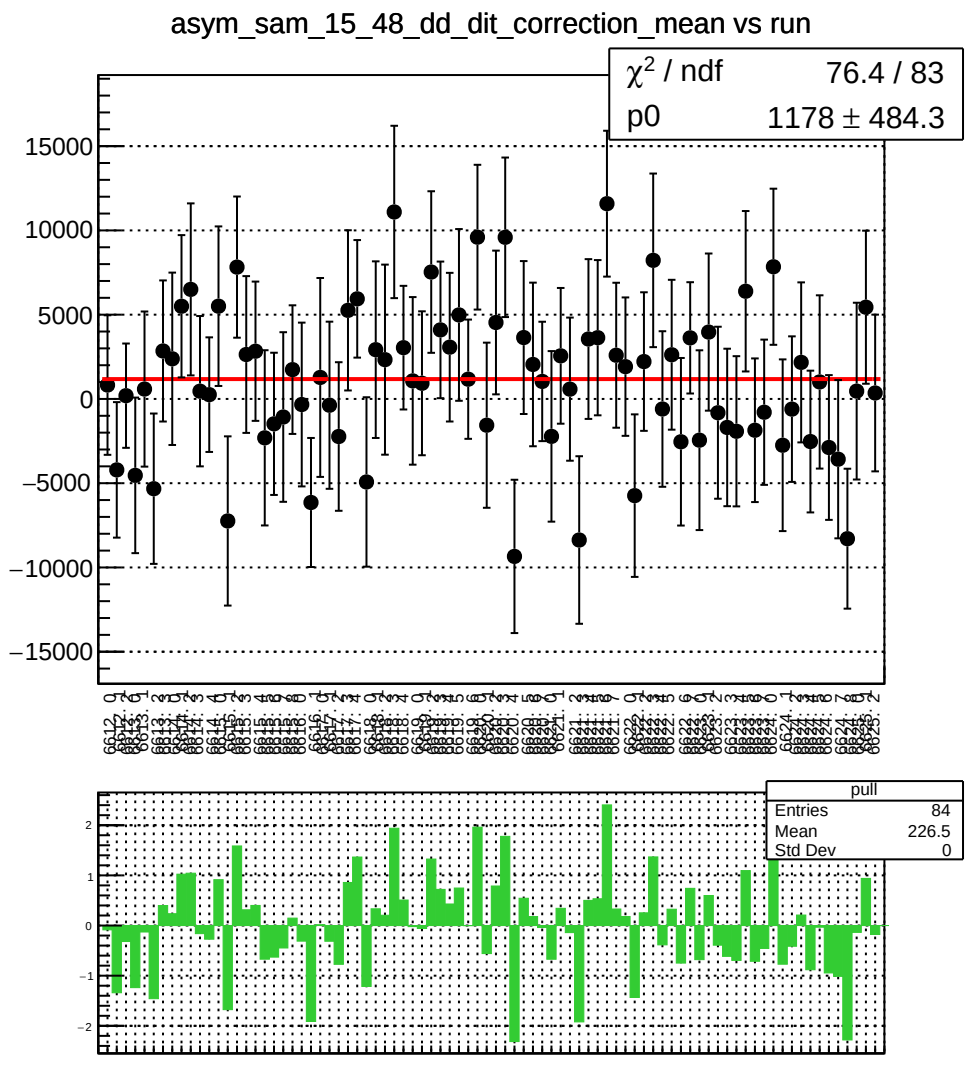

pull1D
Entries 84
Mean −0.005372
Std Dev 0.9556
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

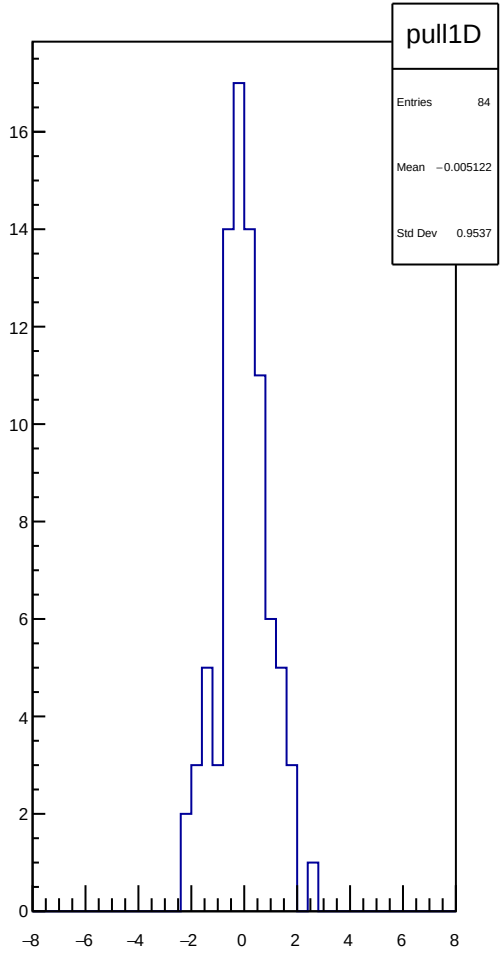

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.318e+04 / 83
p0 437.2 ± 0.3436
580
560
540
520
500
480
460
440
420
400
380
360

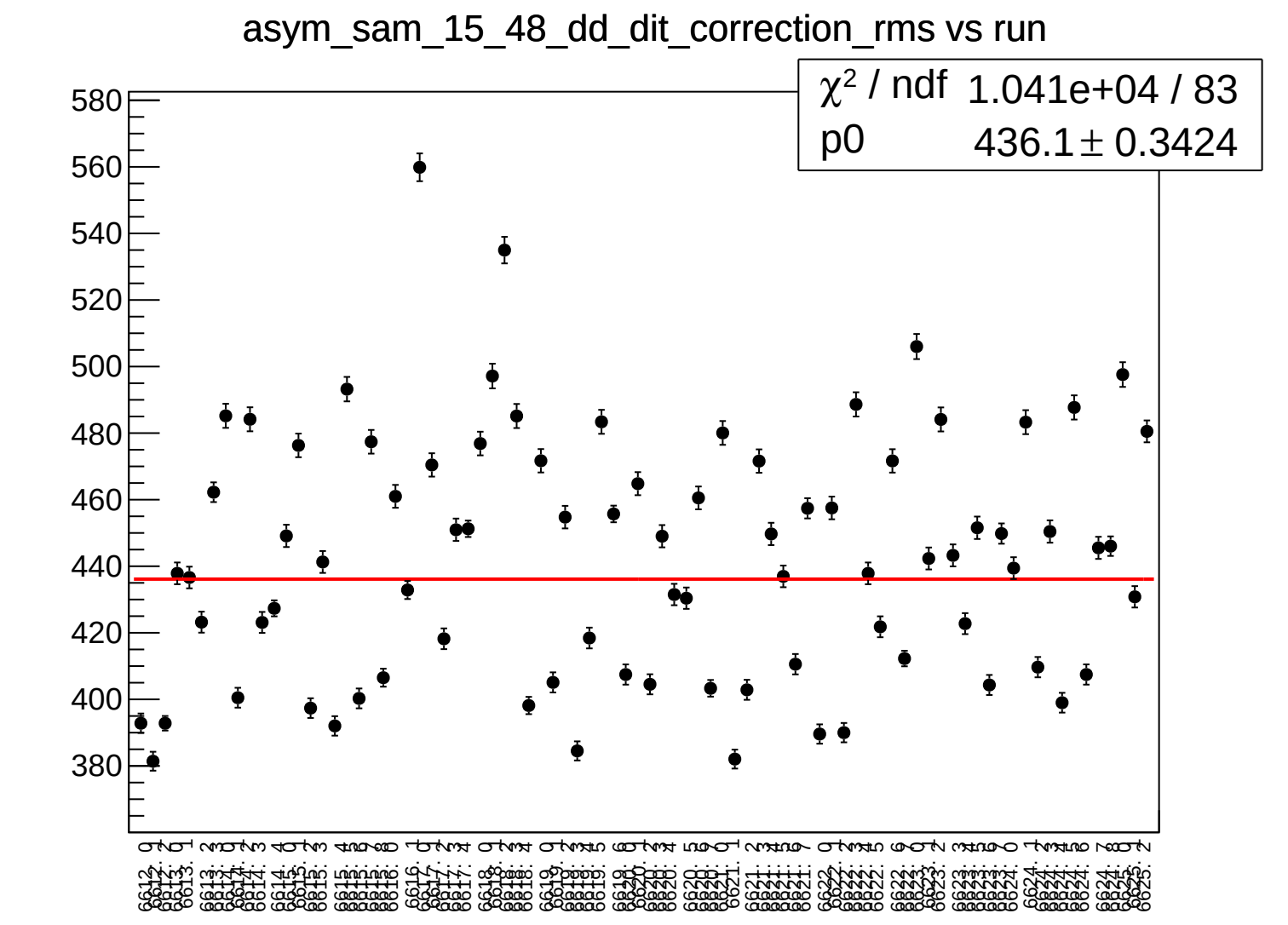

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 64.1 / 83
p0 −2.183 ± 61.95
pull
Entries 84
Mean 177.1
Std Dev 0

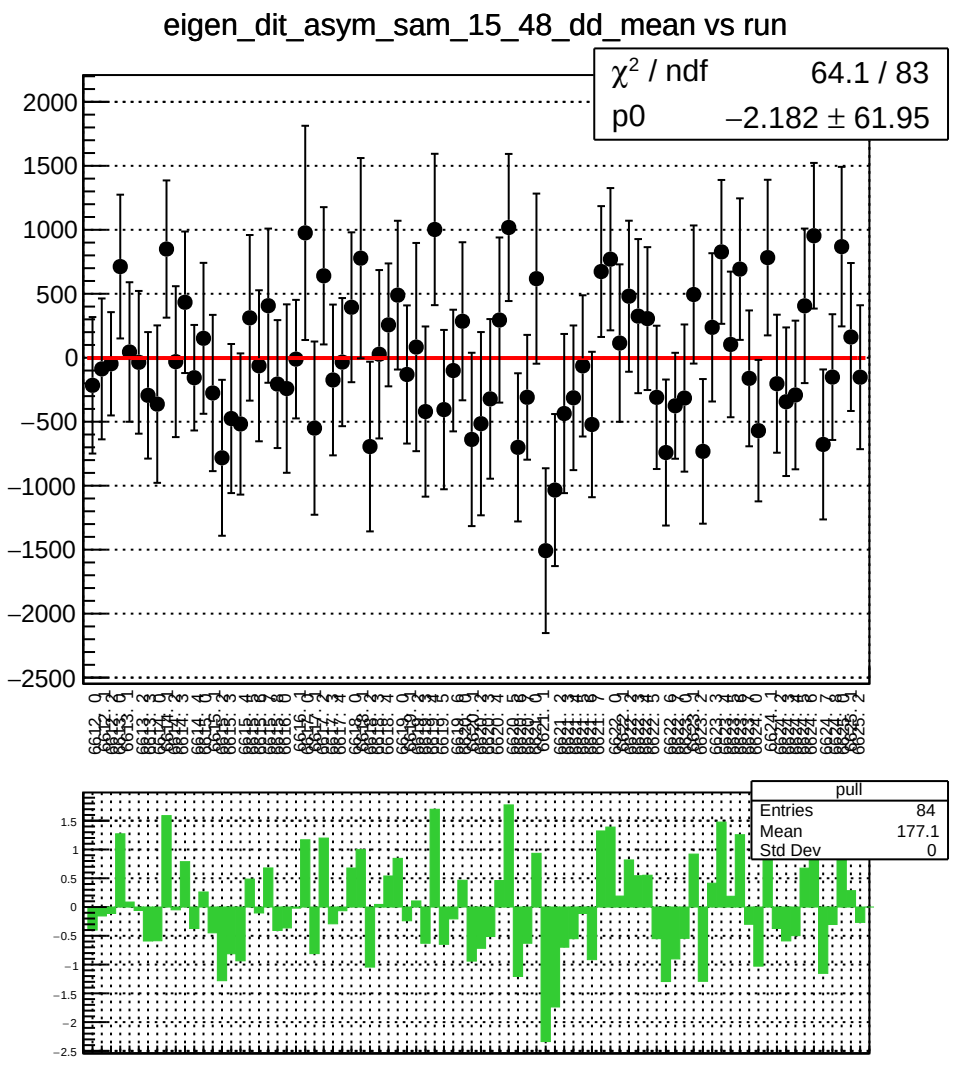

pull1D
Entries 84
Mean 0.004881
Std Dev 0.8735

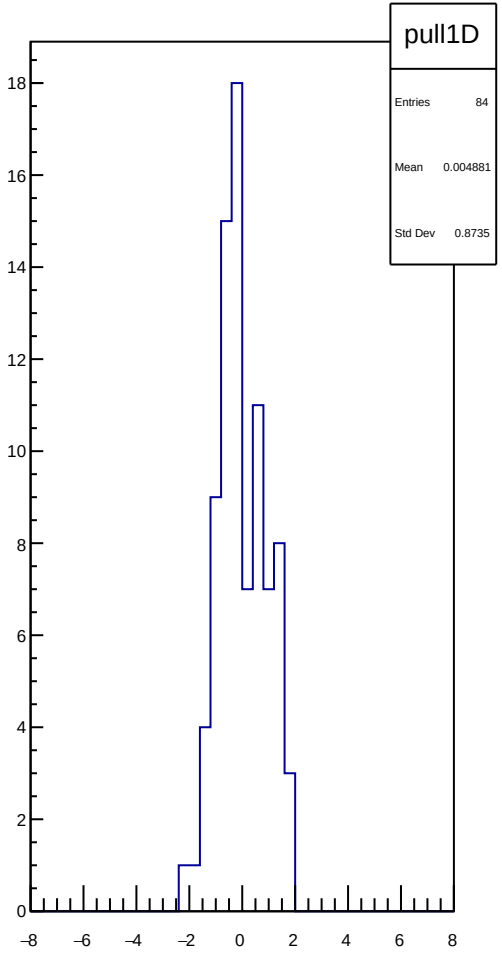

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.123e+04 / 83
p0 55.78 ± 0.0438
80
75
70
65
60
55
50

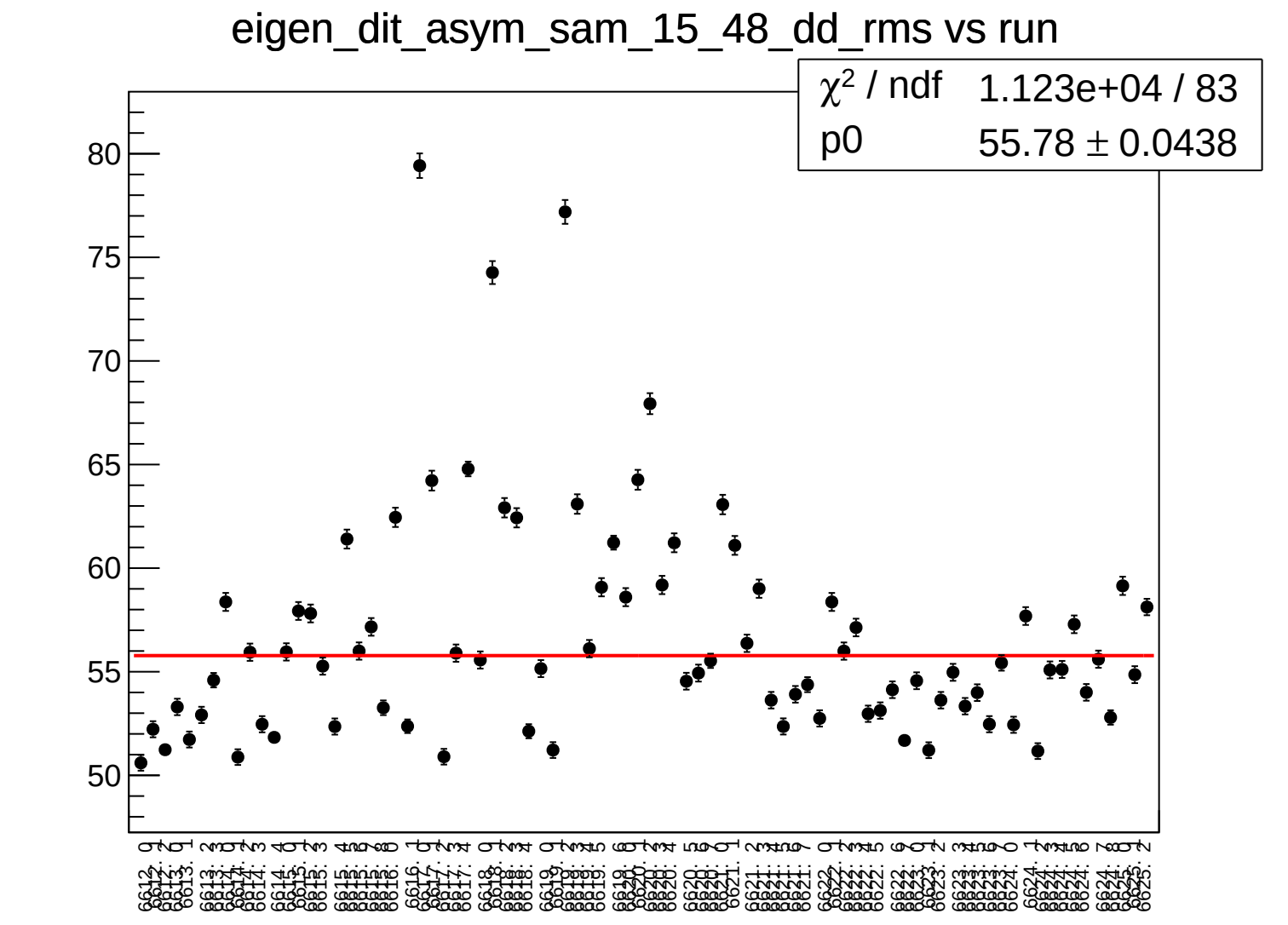

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 76.4 / 83
p0 1178 ± 484.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 226.5
Std Dev 0
2
1
0
−1
−2

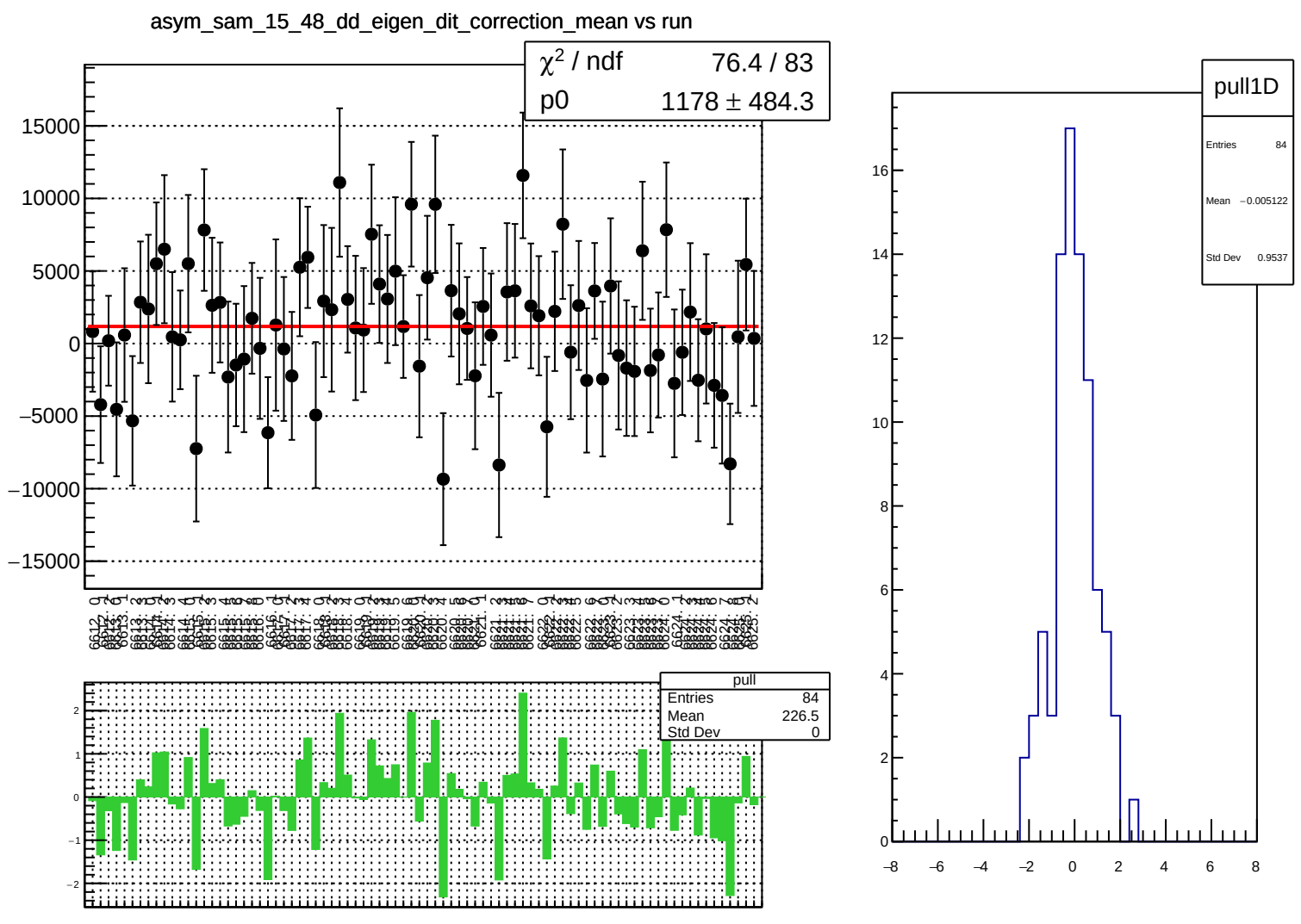

pull1D
Entries 84
Mean −0.005122
Std Dev 0.9537
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

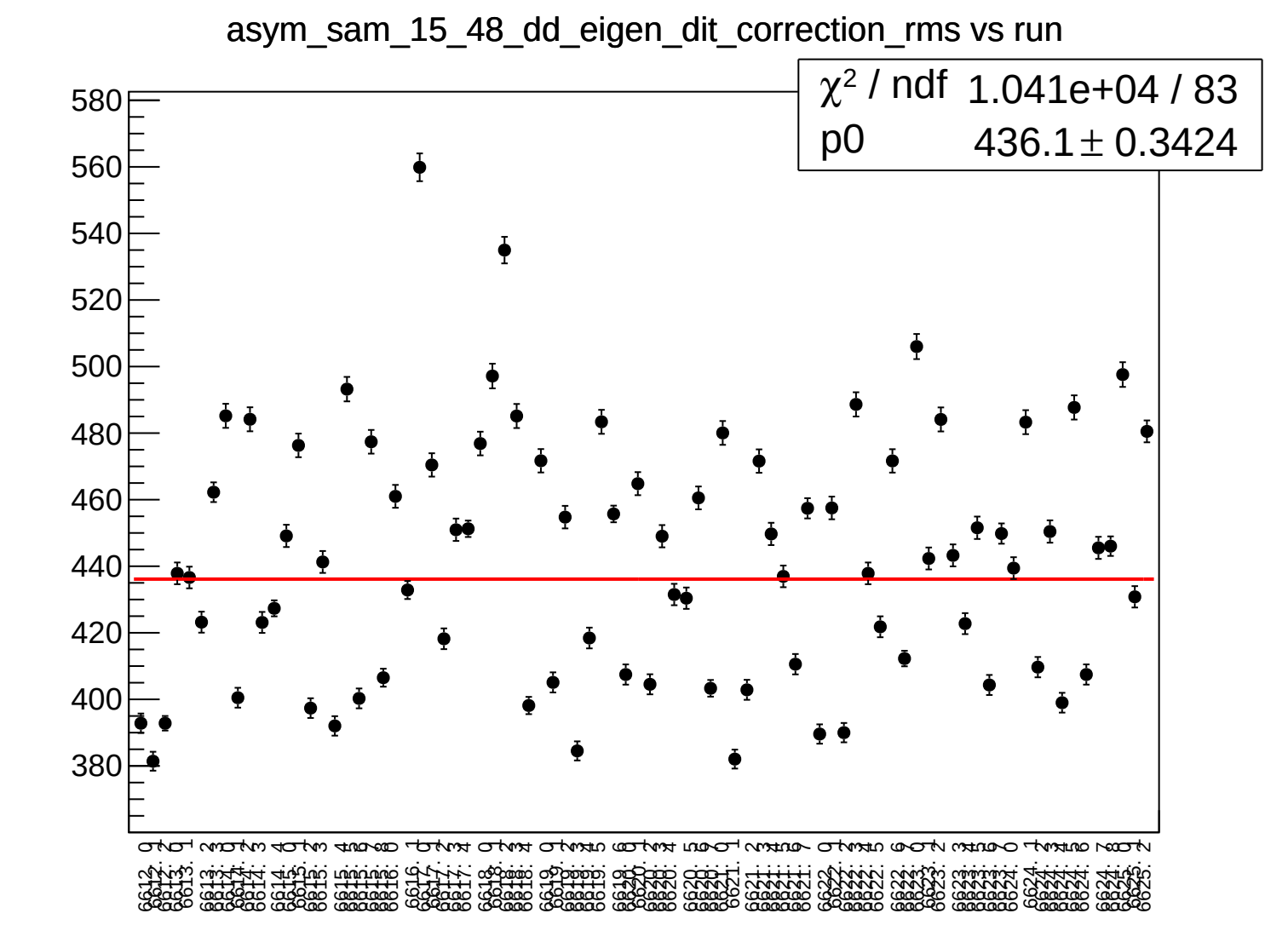

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1.041e+04 / 83
p0 436.1 ± 0.3424
580
560
540
520
500
480
460
440
420
400
380

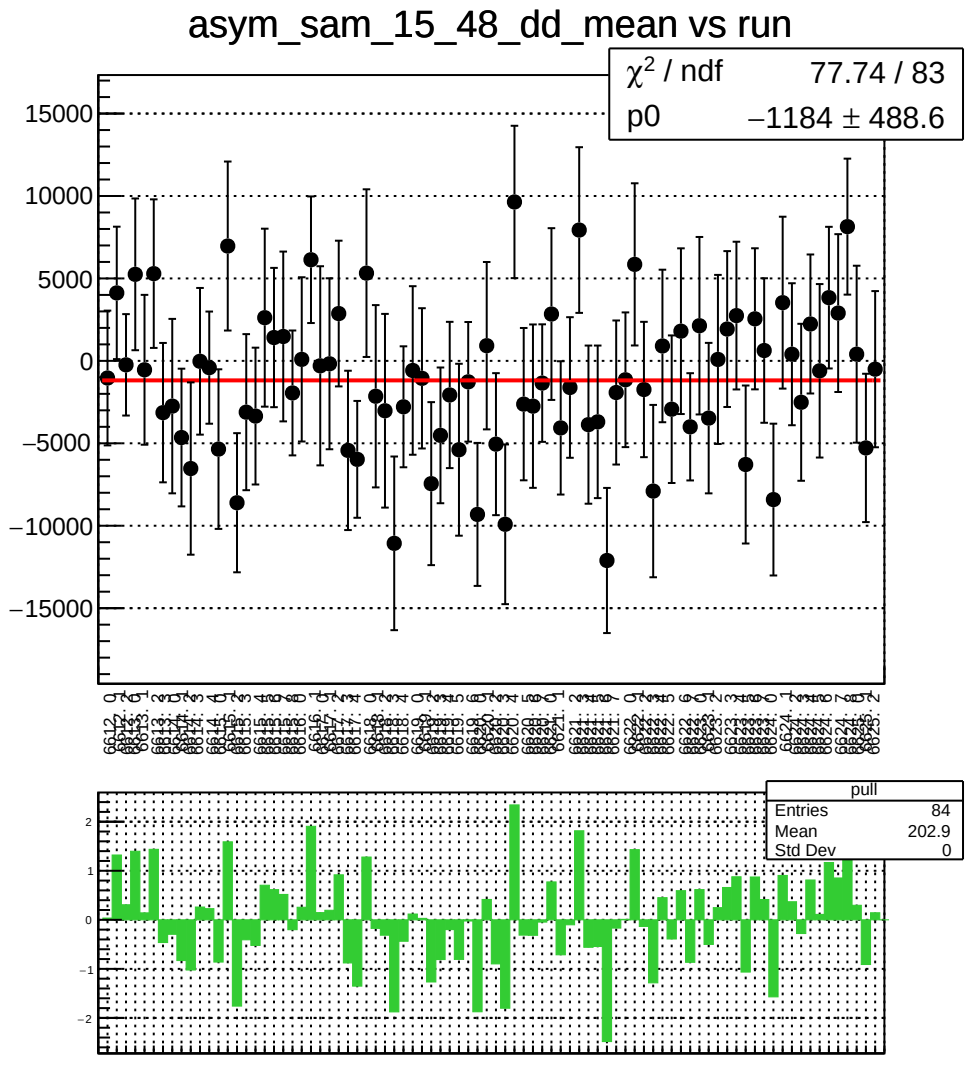

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 64.1 / 83
p0 −2.182 ± 61.95
pull
Entries 84
Mean 177.1
Std Dev 0

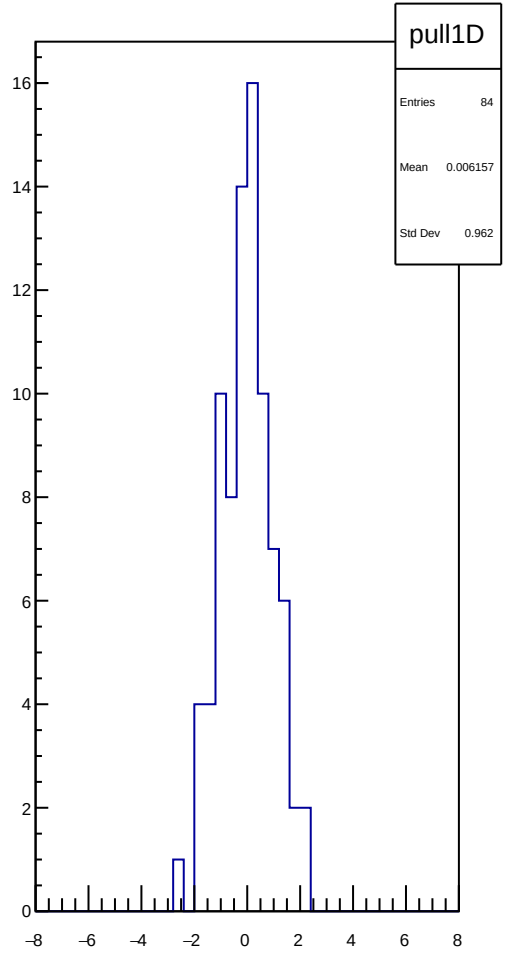

pull1D
Entries 84
Mean 0.004881
Std Dev 0.8735

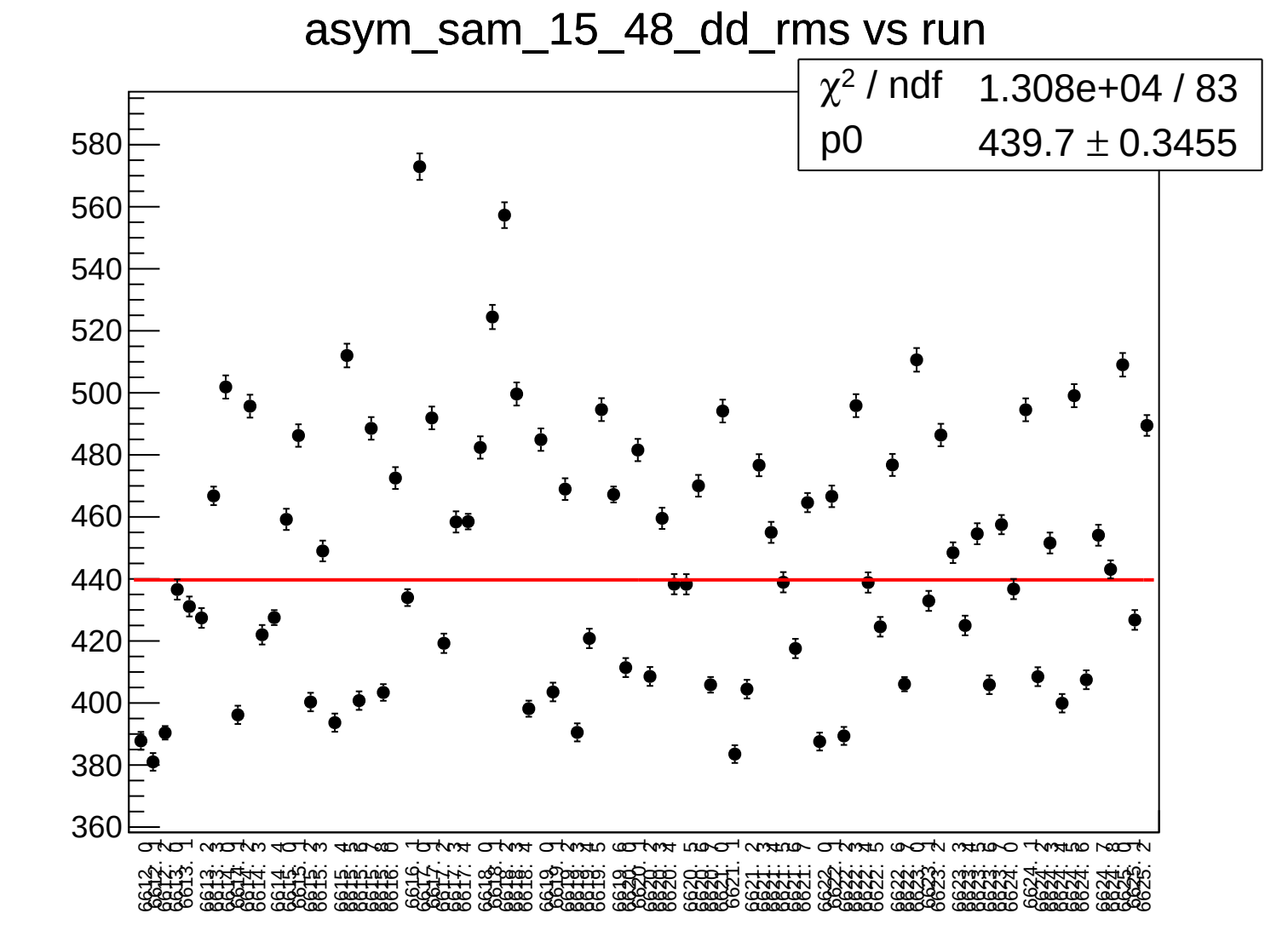

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.123e+04 / 83
p0 55.78 ± 0.0438
80
75
70
65
60
55
50

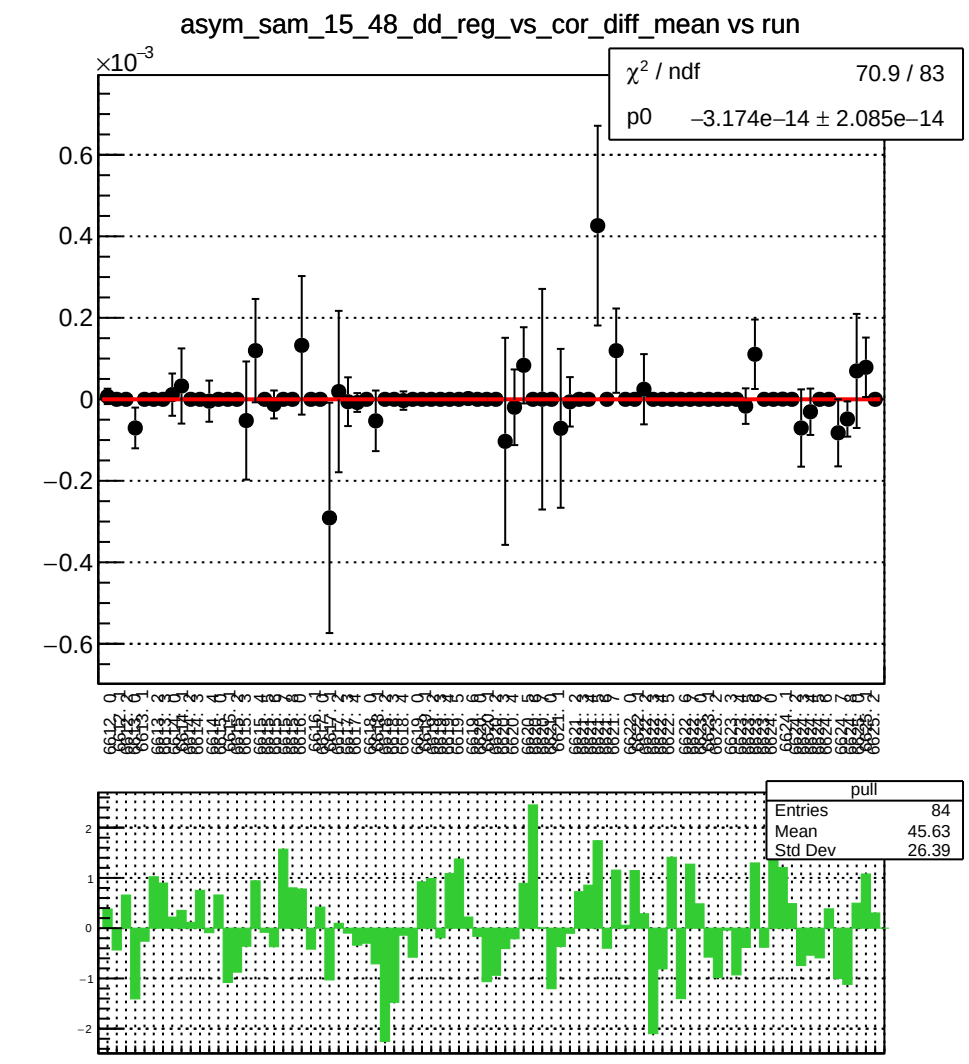

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.4 / 83
p0 1178 ± 484.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 226.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.005122
Std Dev 0.9537
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

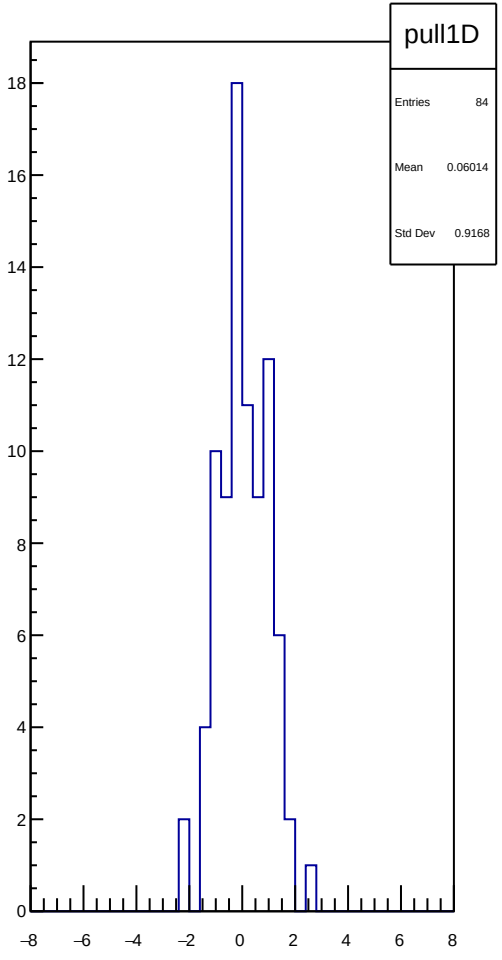

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.041e+04 / 83
p0 436.1 ± 0.3424
580
560
540
520
500
480
460
440
420
400
380

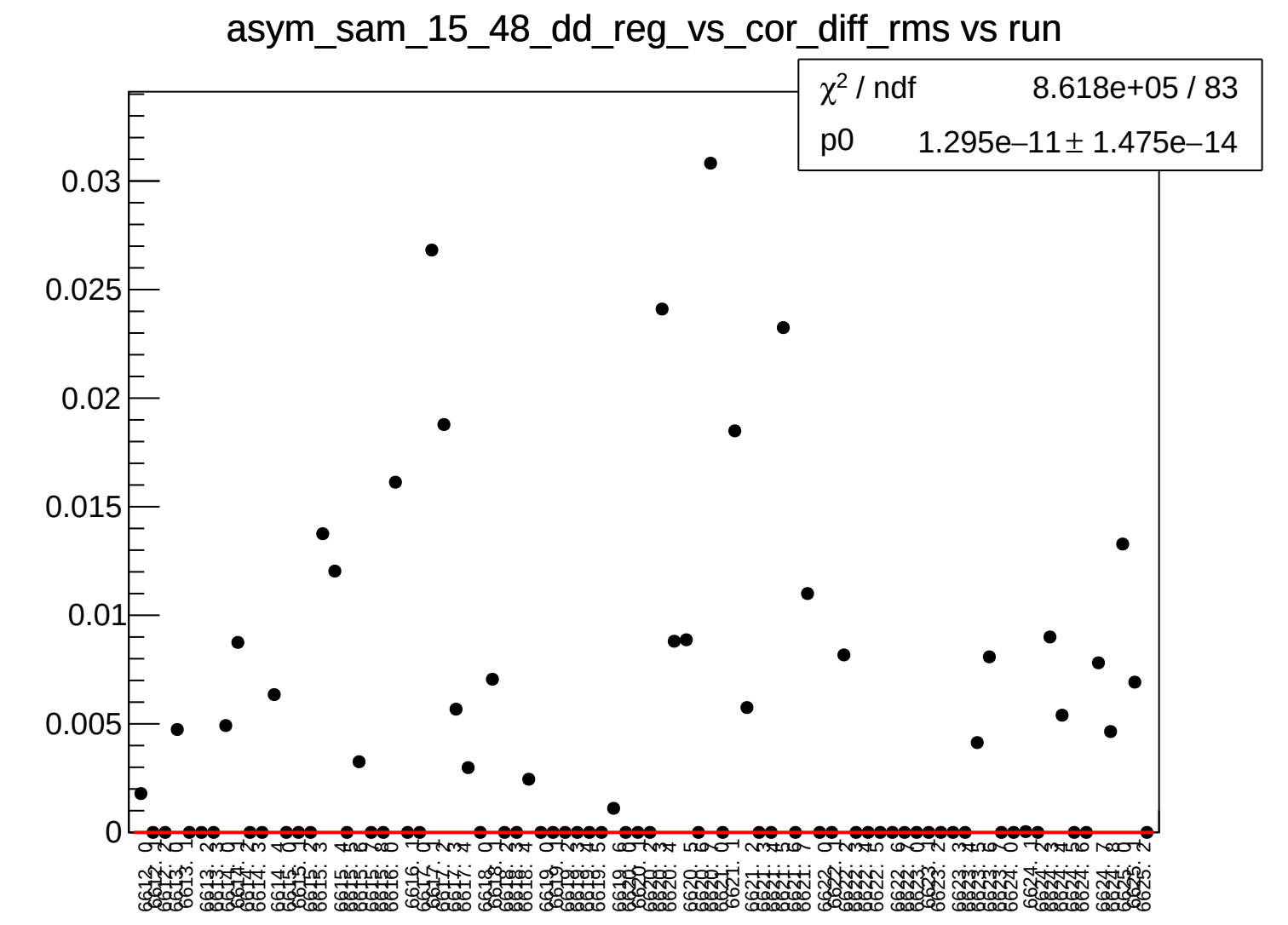

asym_sam_15_48_dd_mean vs run
χ² / ndf 77.74 / 83
p0 −1184 ± 488.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 202.9
Std Dev 0
2
1
0
−1
−2

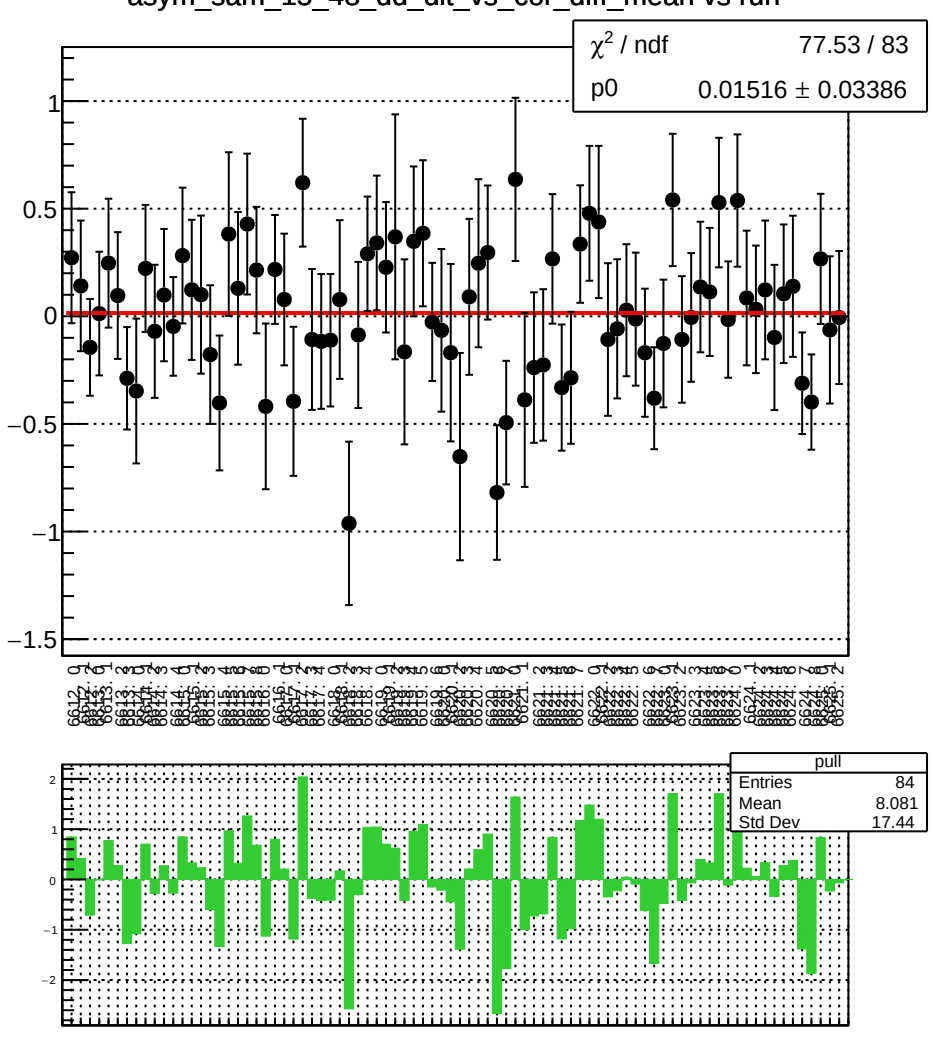

pull1D
Entries 84
Mean 0.006157
Std Dev 0.962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

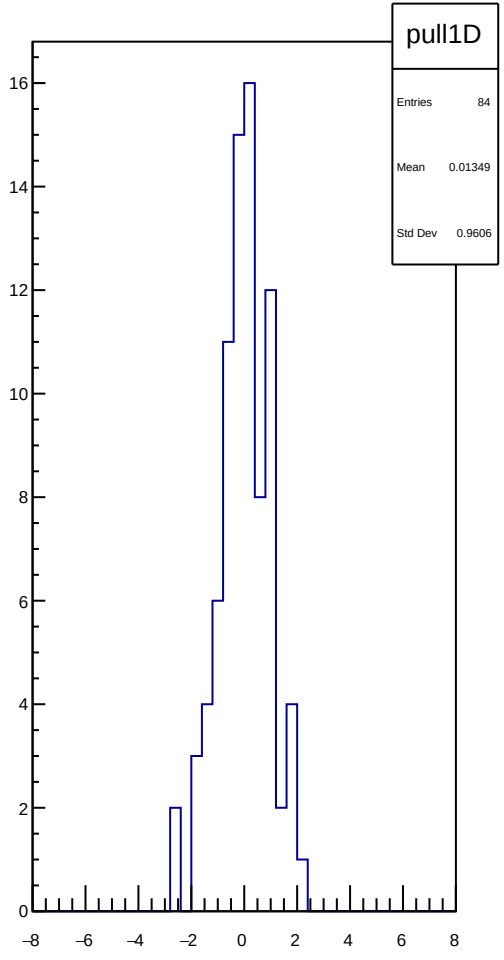

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.308e+04 / 83
p0 439.7 ± 0.3455
580
560
540
520
500
480
460
440
420
400
380
360

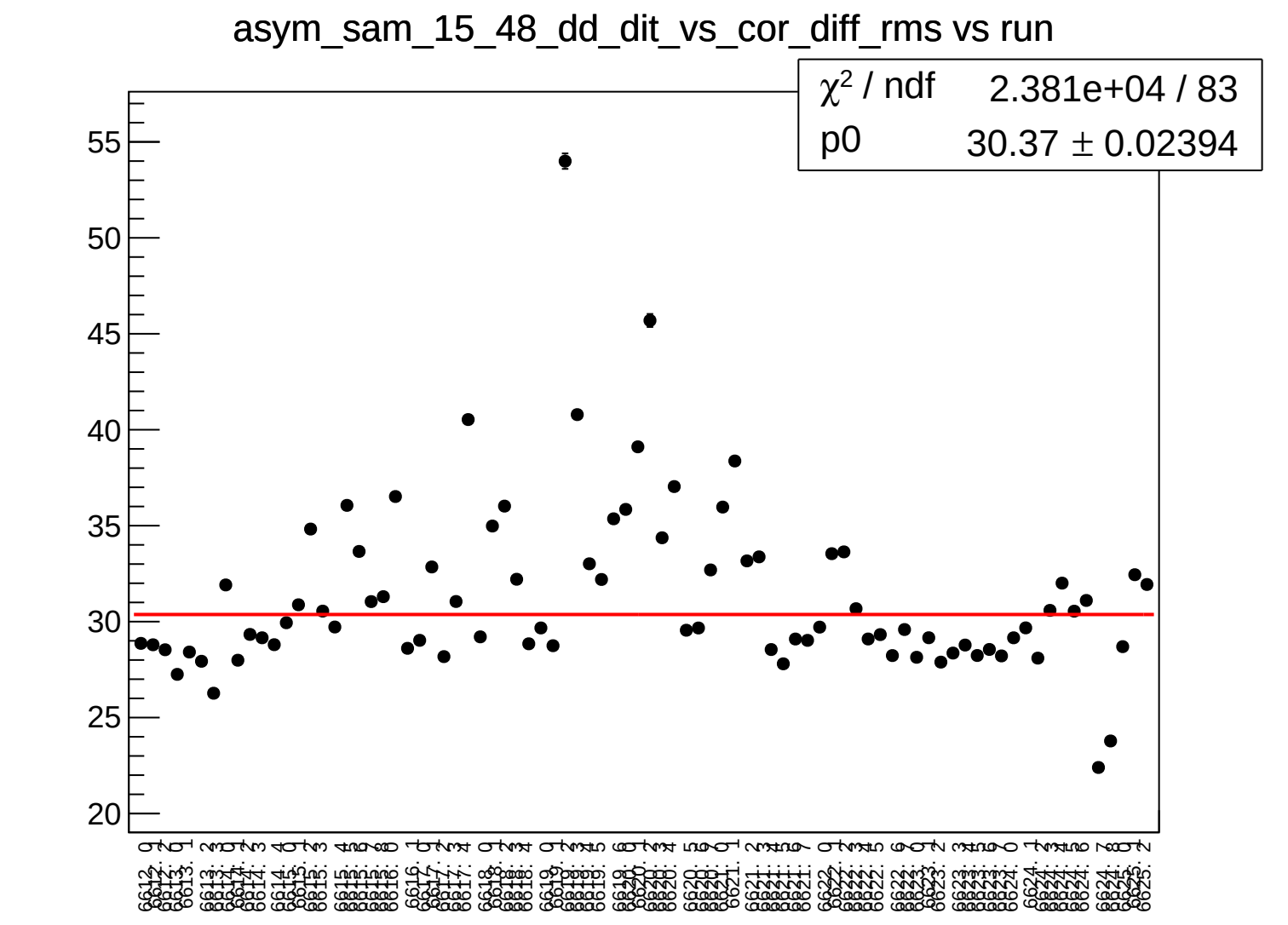

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 70.9 / 83
p0 −3.174e−14 ± 2.085e−14
pull
Entries 84
Mean 45.63
Std Dev 26.39

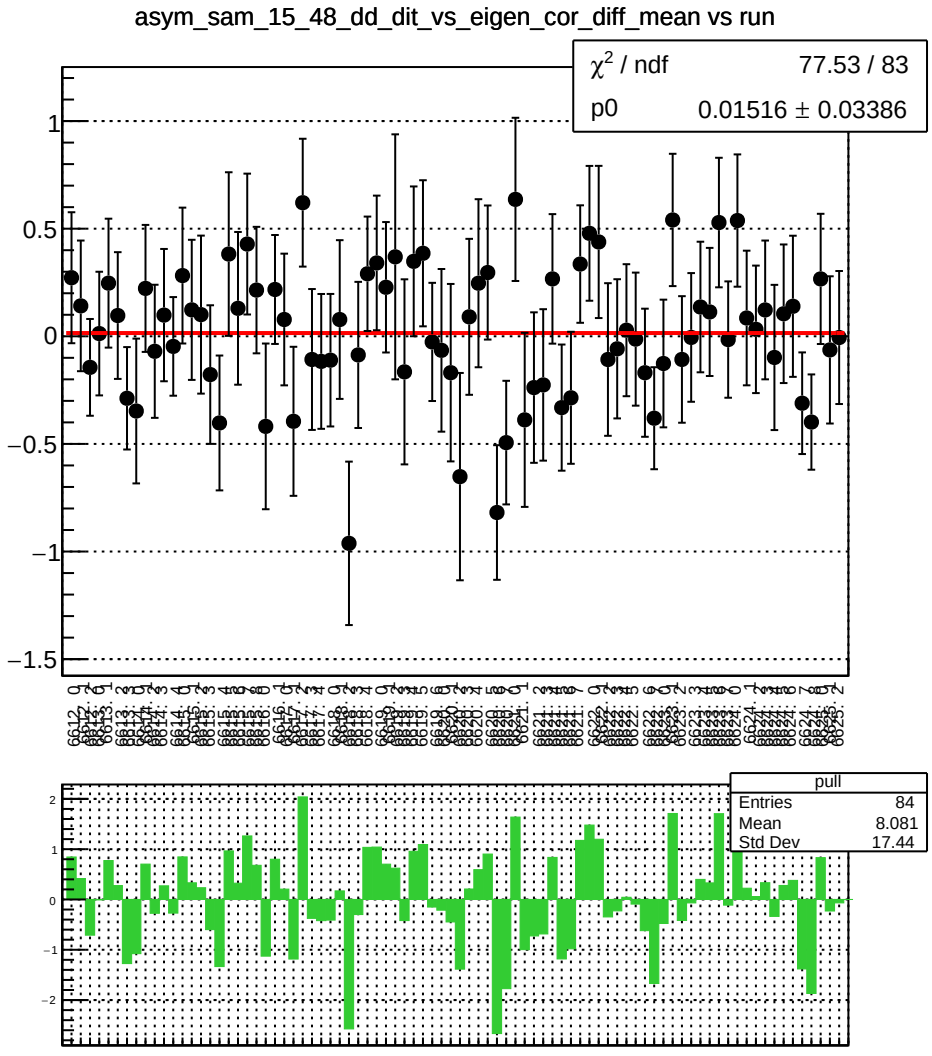

pull1D
Entries 84
Mean 0.06014
Std Dev 0.9168

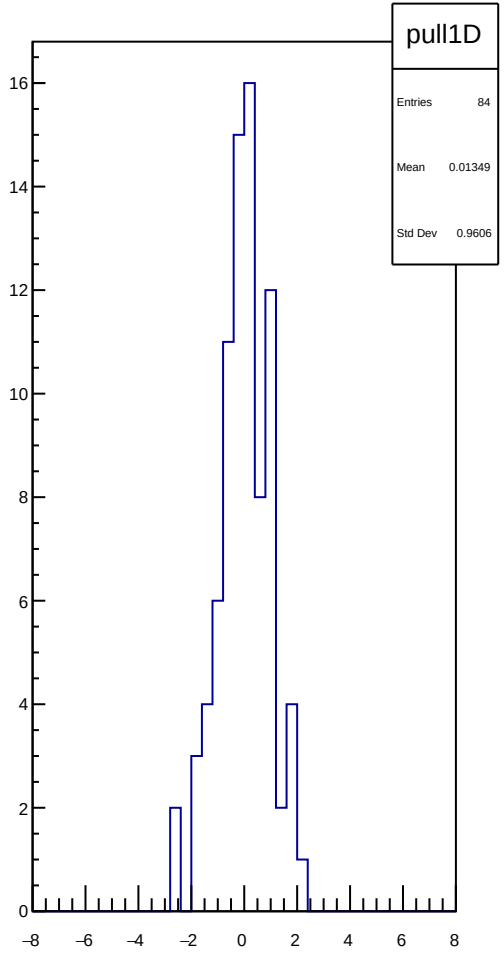

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.618e+05 / 83
p0 1.295e−11 ± 1.475e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

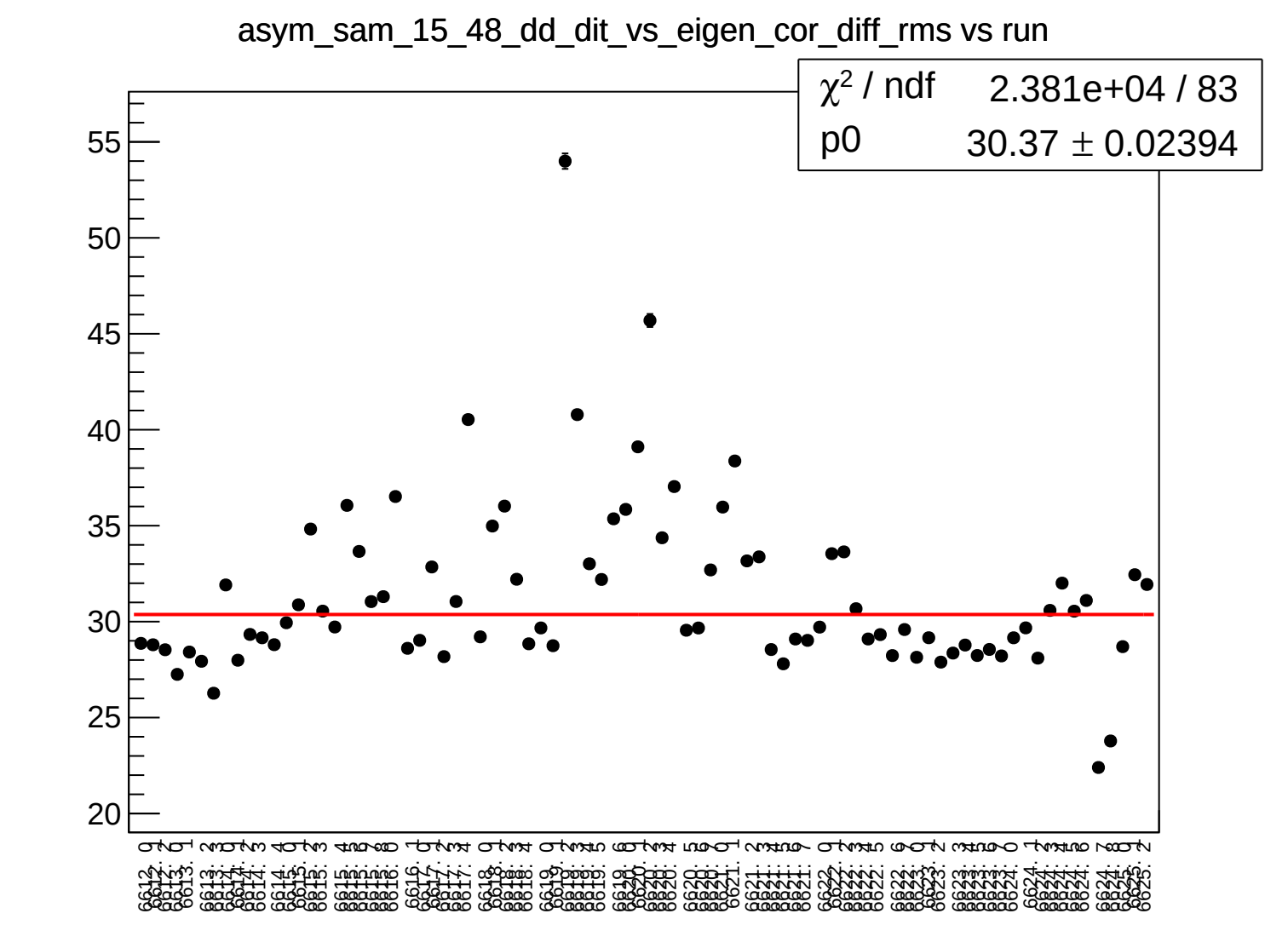

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.53 / 83
p0 0.01516 ± 0.03386
pull
Entries 84
Mean 8.081
Std Dev 17.44

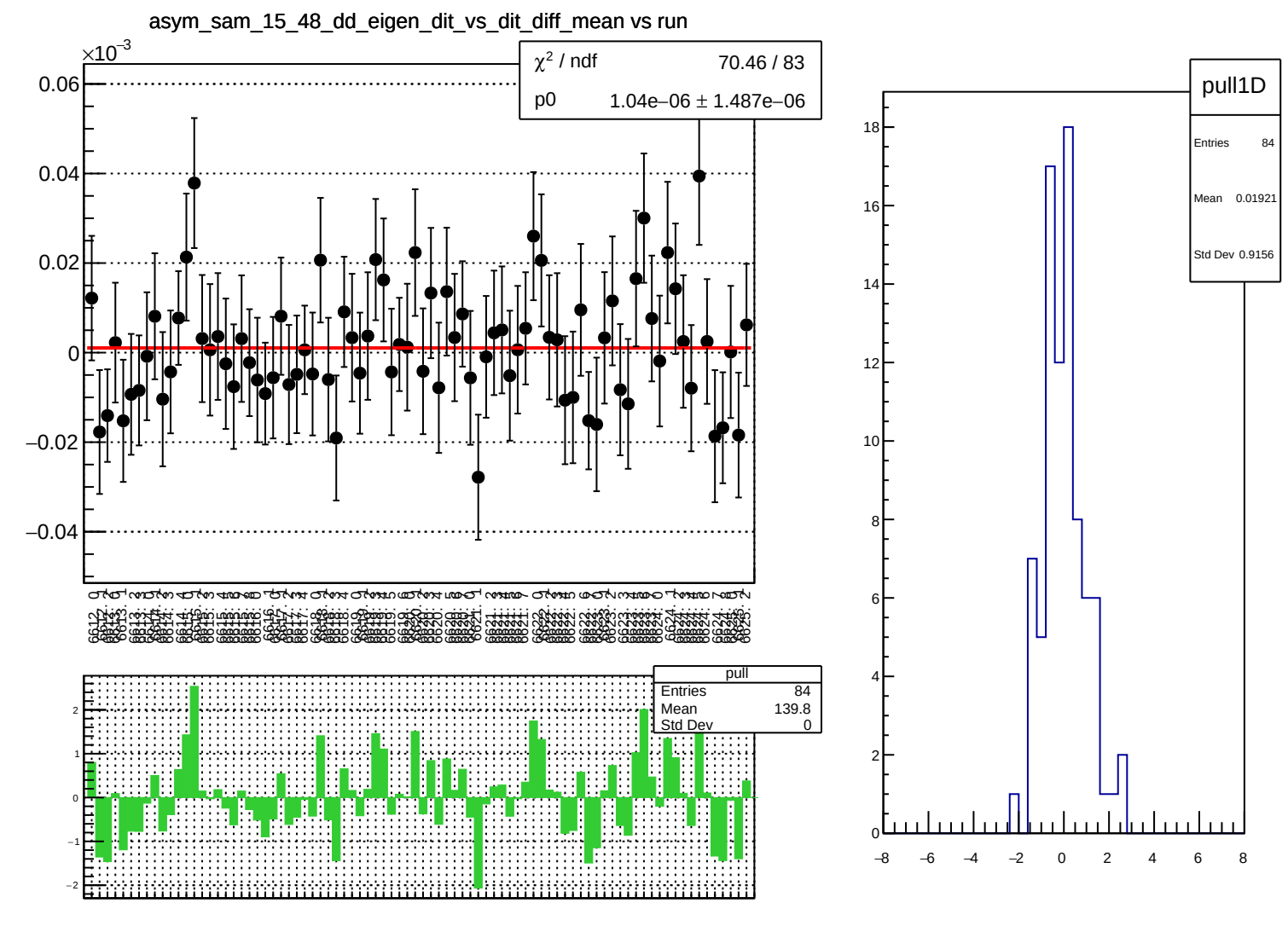

pull1D
Entries 84
Mean 0.01349
Std Dev 0.9606

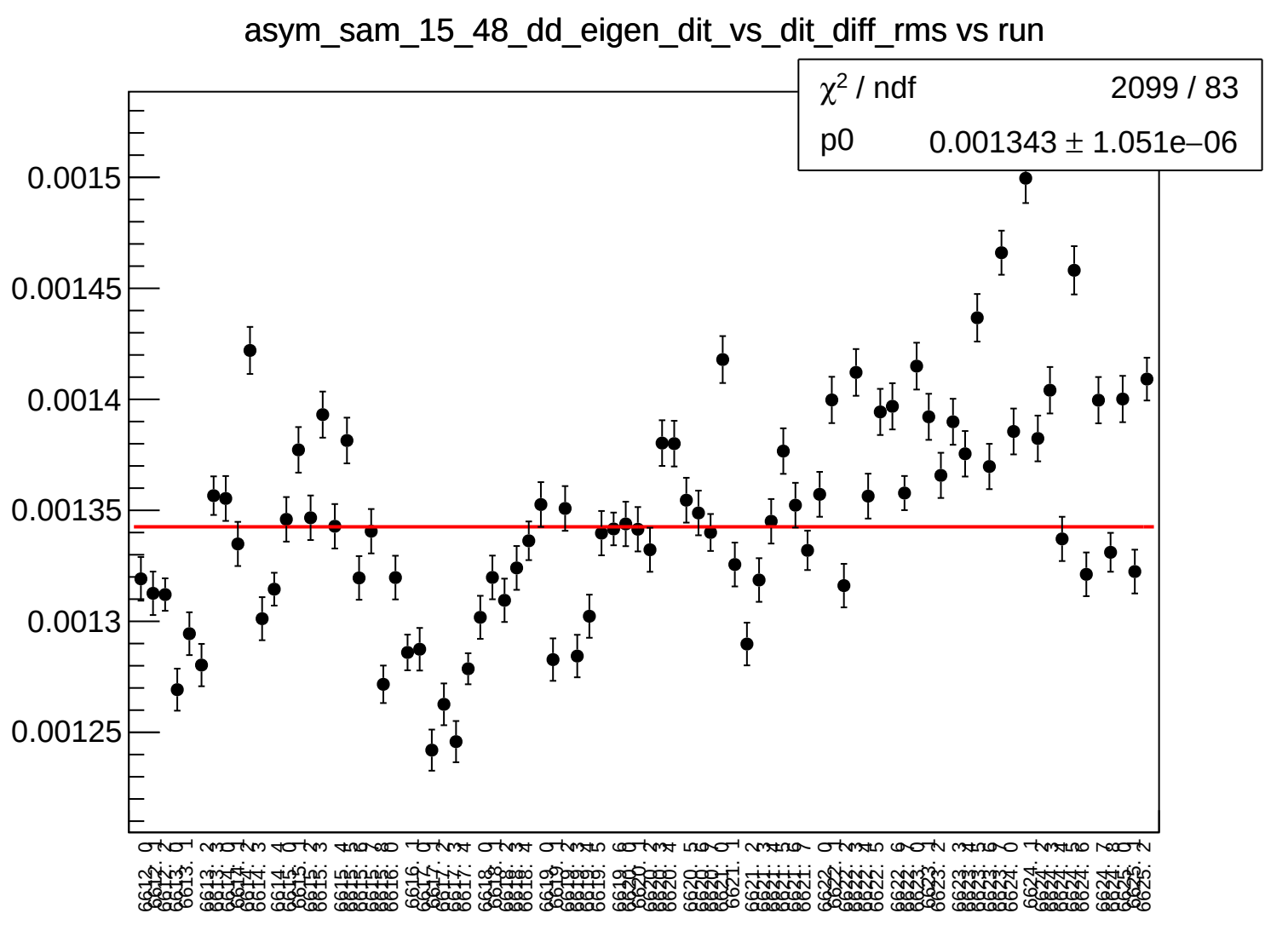

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.381e+04 / 83
p0 30.37 ± 0.02394
55
50
45
40
35
30
25
20

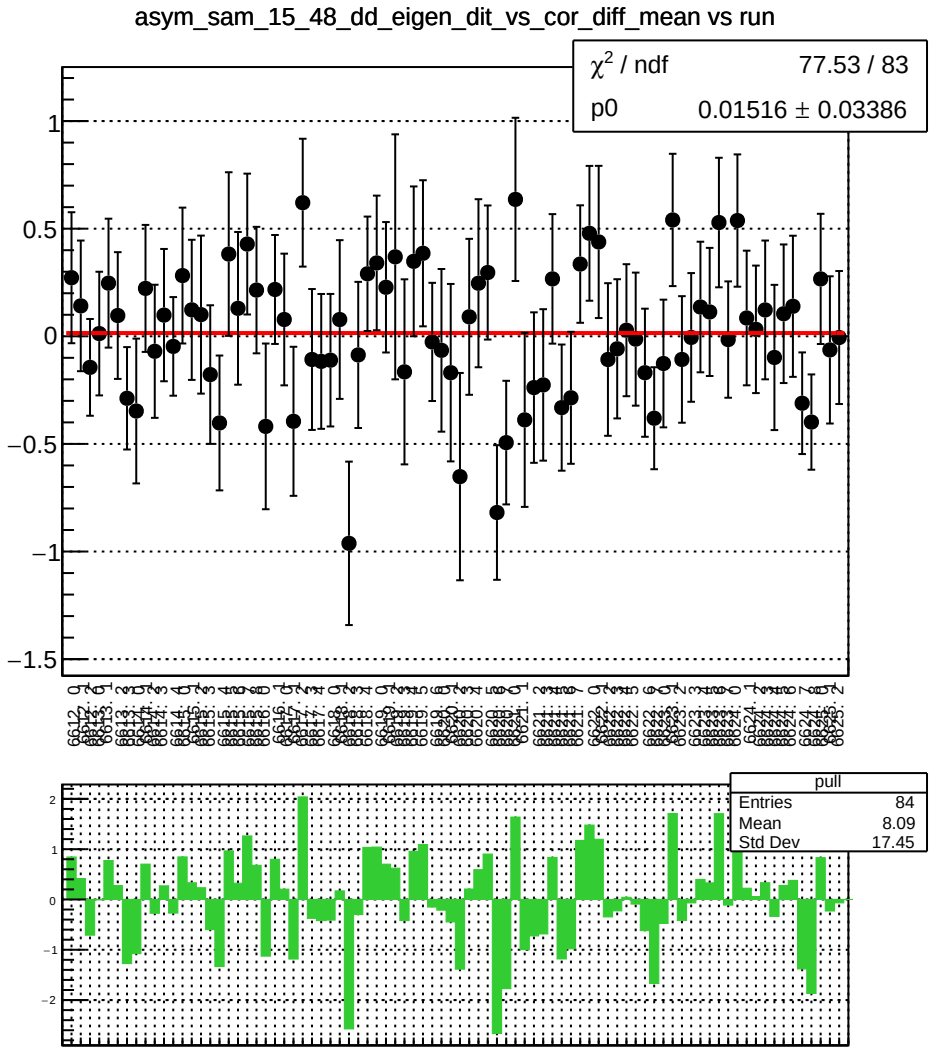

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.53 / 83
p0 0.01516 ± 0.03386
pull
Entries 84
Mean 8.081
Std Dev 17.44

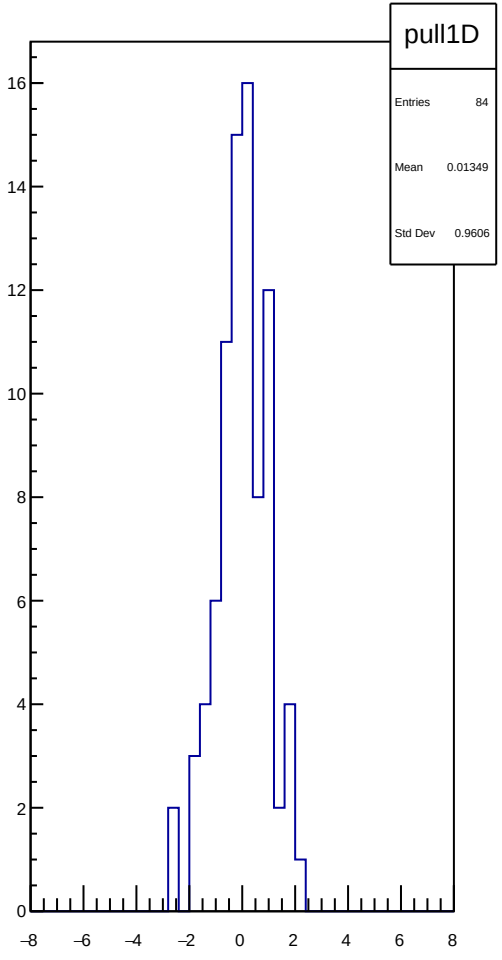

pull1D
Entries 84
Mean 0.01349
Std Dev 0.9606

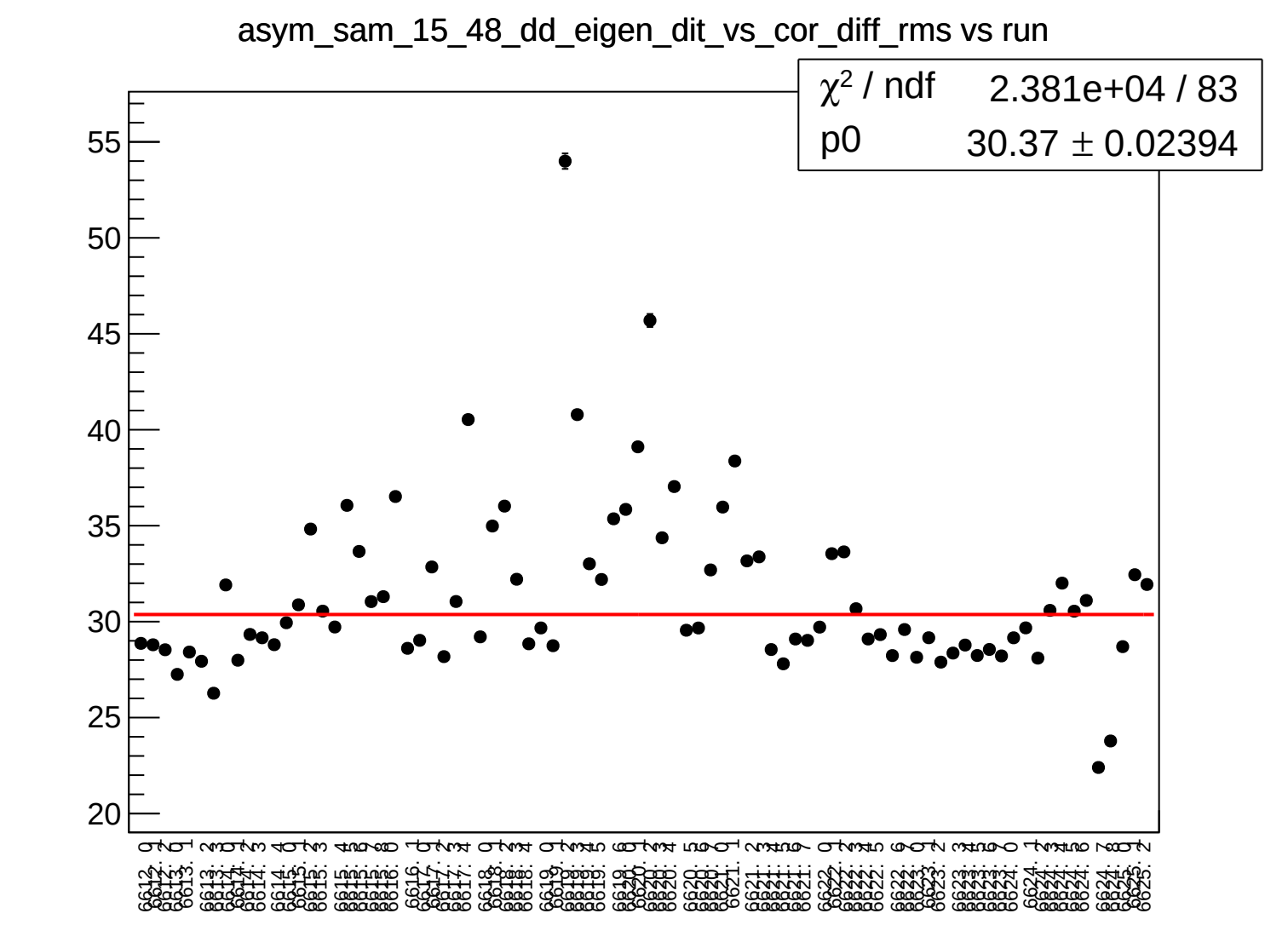

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.381e+04 / 83
p0 30.37 ± 0.02394
55
50
45
40
35
30
25
20

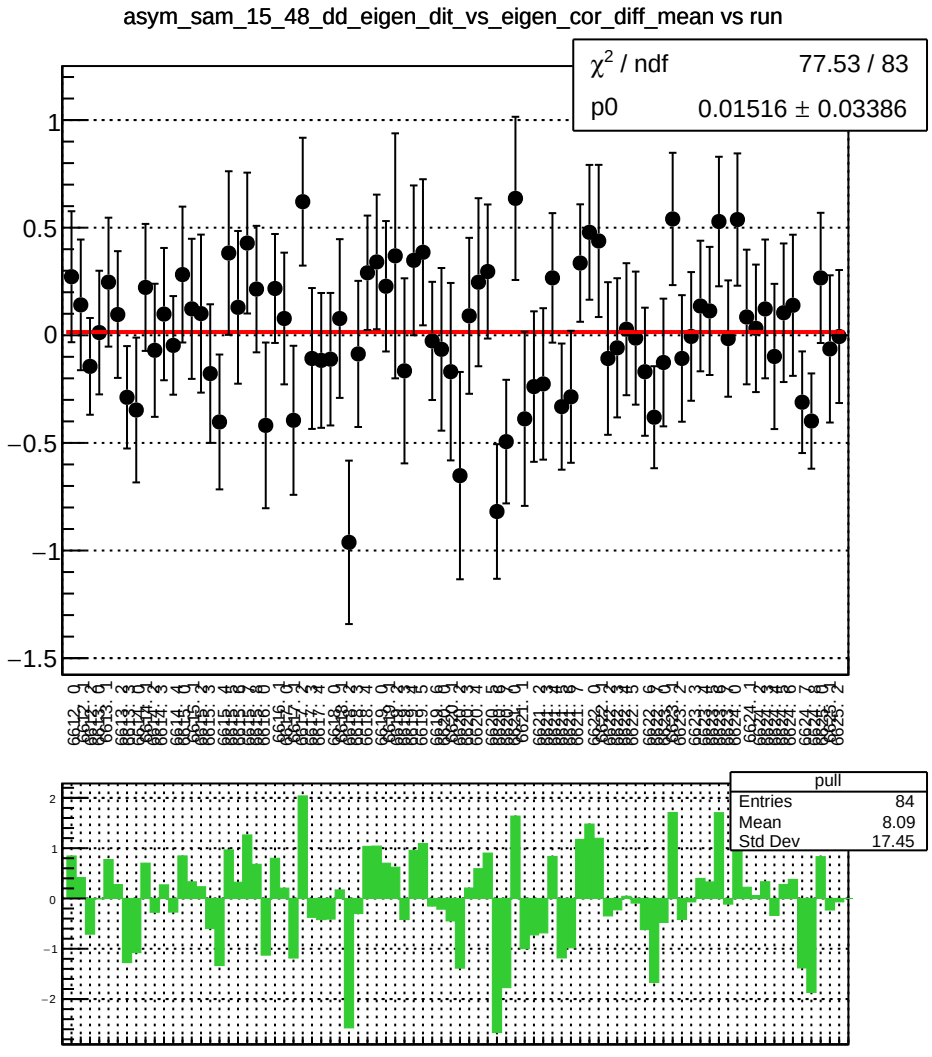

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.46 / 83
p0 1.04e−06 ± 1.487e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 84
Mean 139.8
Std Dev 0
pull1D
Entries 84
Mean 0.01921
Std Dev 0.9156
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

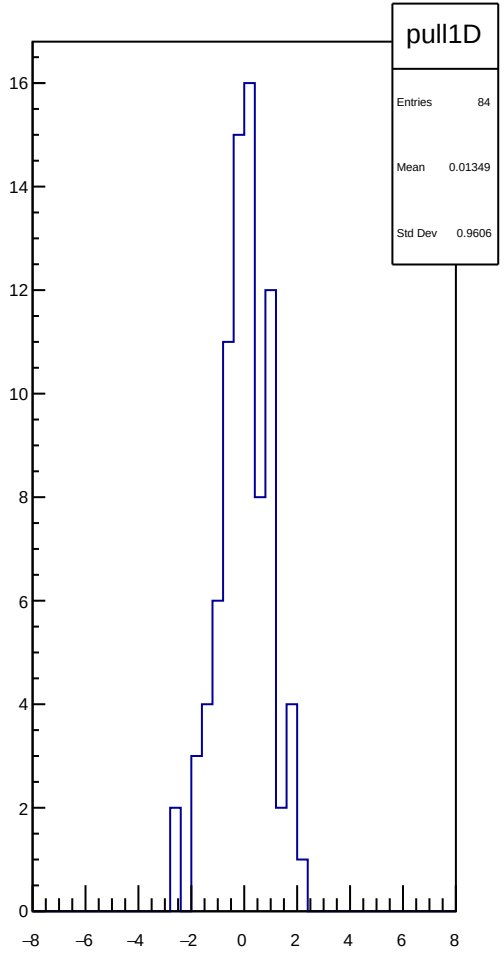

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2099 / 83
p0 0.001343 ± 1.051e−06
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125

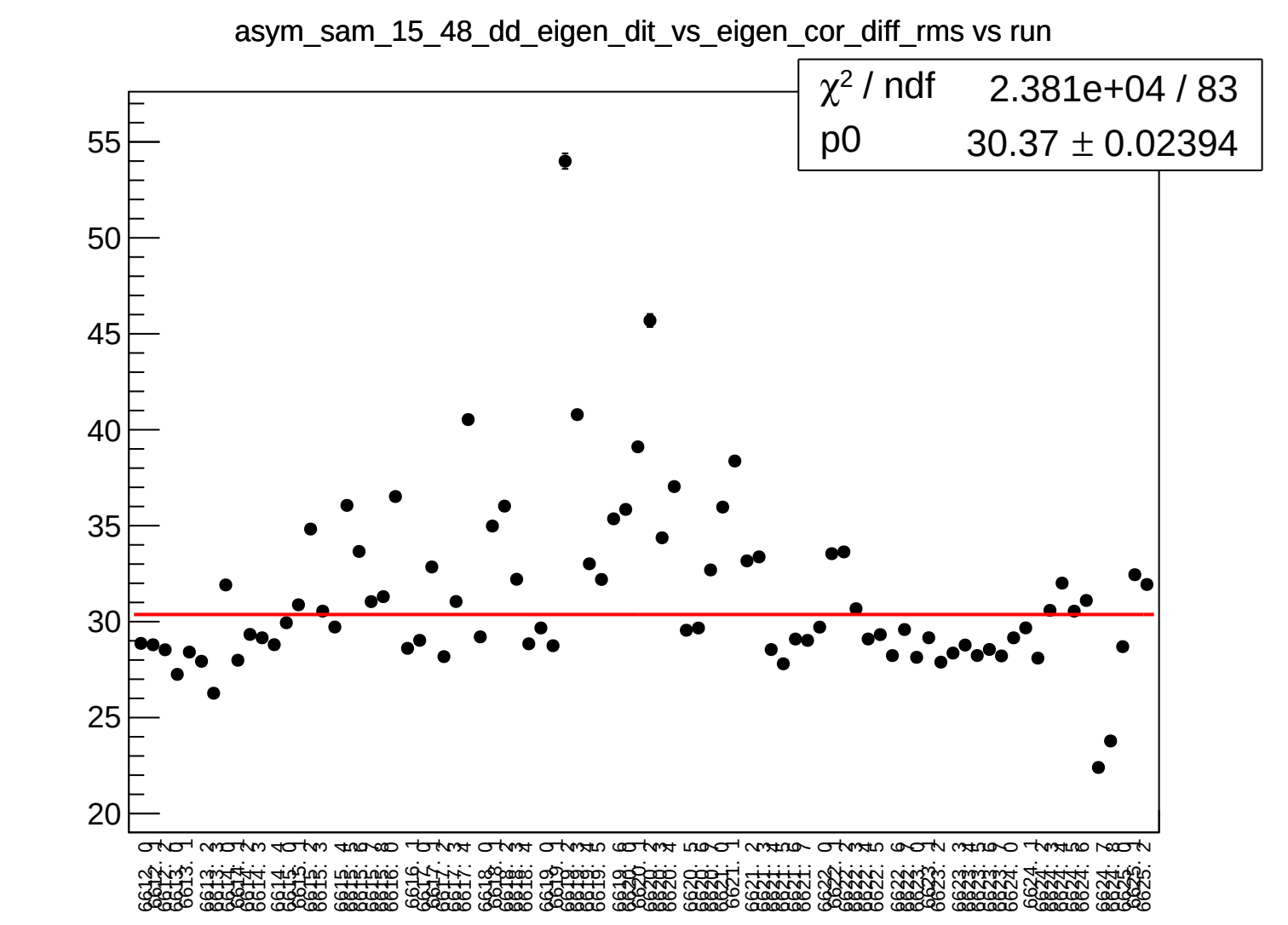

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.53 / 83
p0 0.01516 ± 0.03386
pull
Entries 84
Mean 8.09
Std Dev 17.45

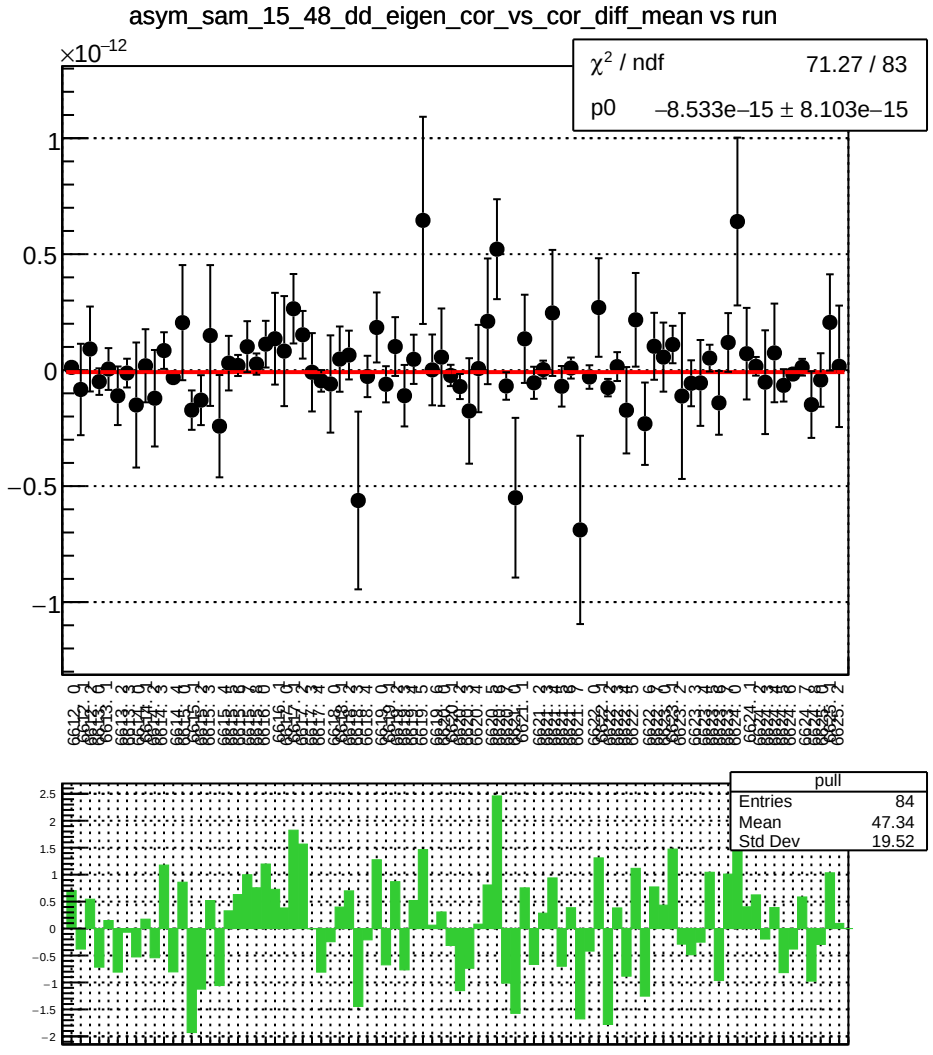

pull1D
Entries 84
Mean 0.01349
Std Dev 0.9606

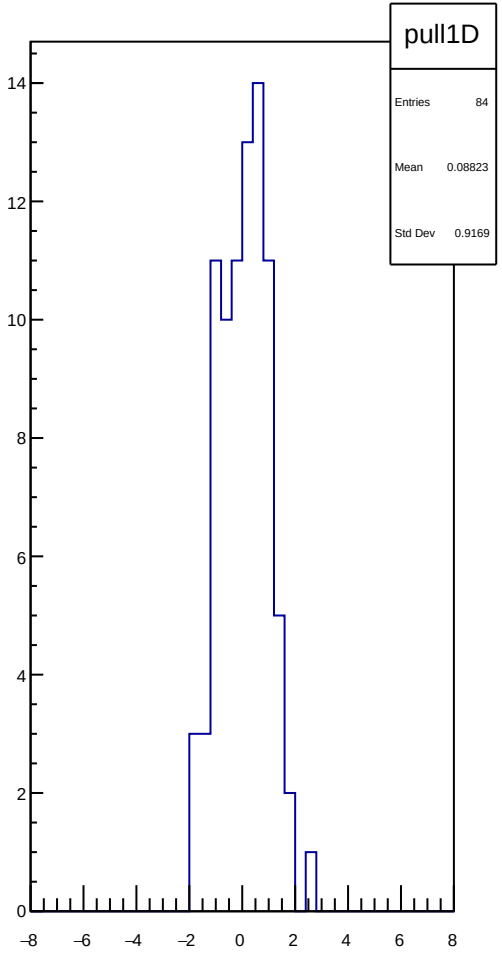

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.381e+04 / 83
p0 30.37 ± 0.02394
55
50
45
40
35
30
25
20

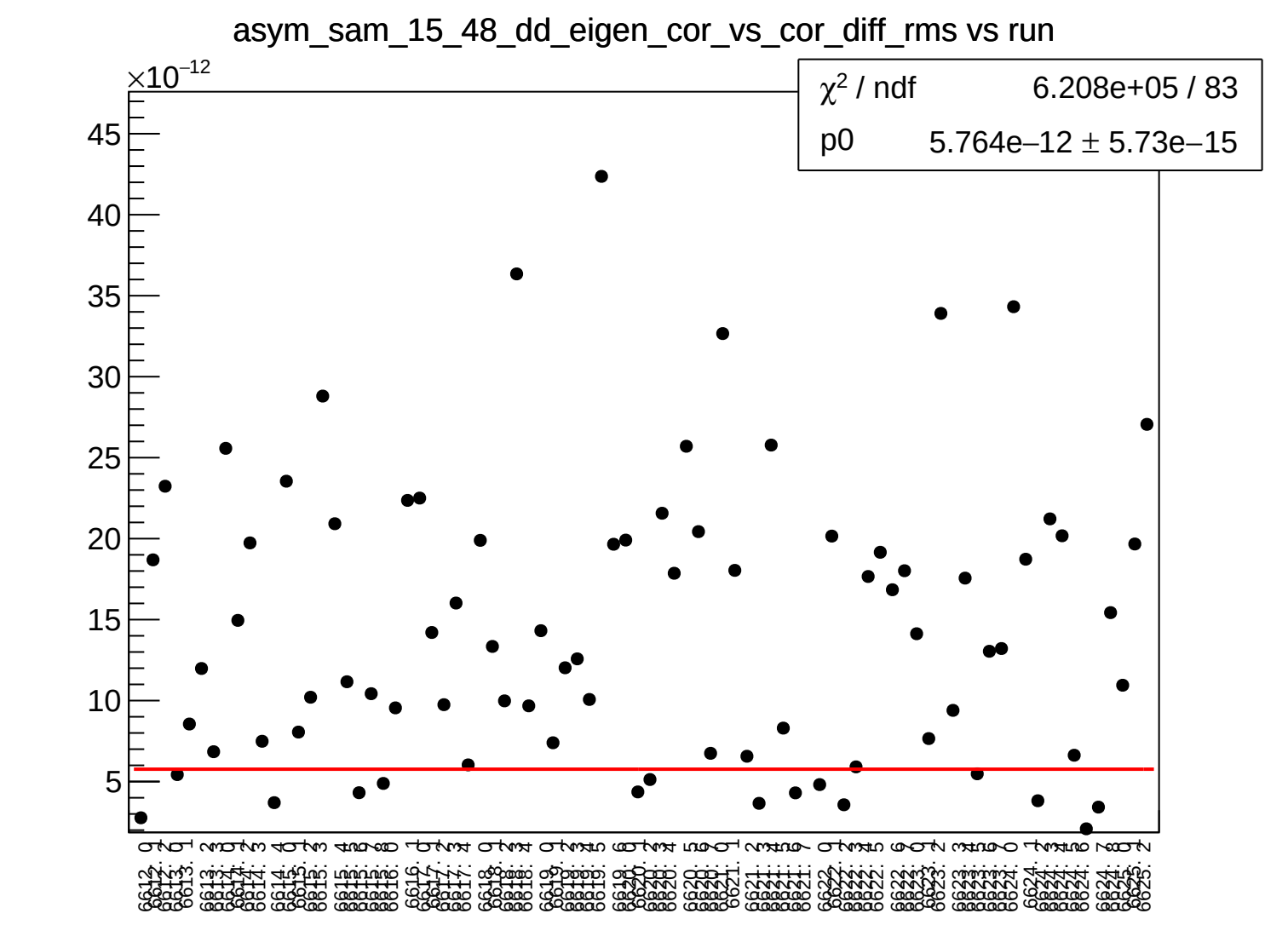

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.53 / 83
p0 0.01516 ± 0.03386
pull
Entries 84
Mean 8.09
Std Dev 17.45

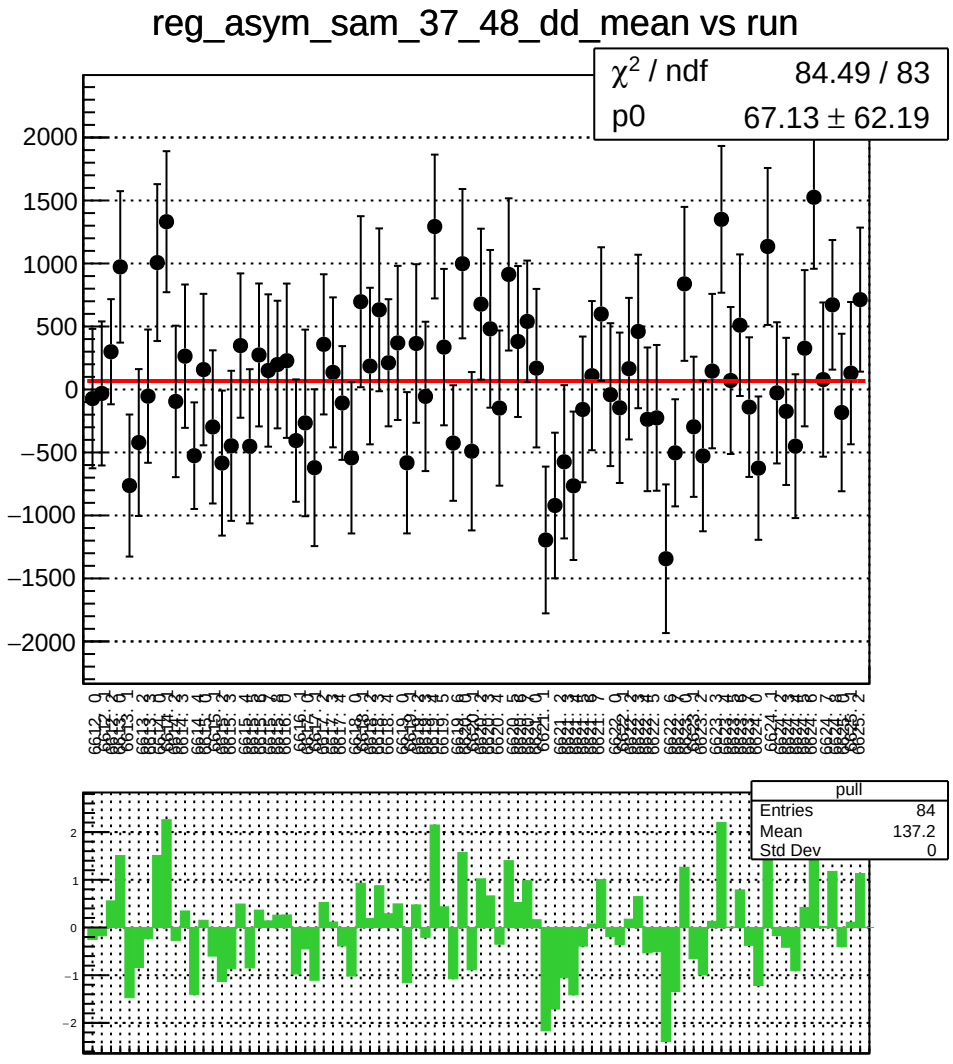

pull1D
Entries 84
Mean 0.01349
Std Dev 0.9606

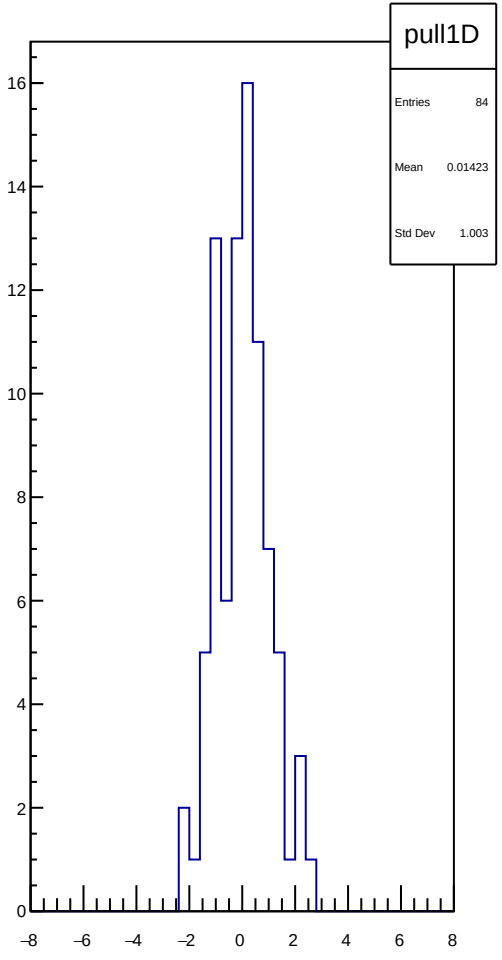

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.381e+04 / 83
p0 30.37 ± 0.02394
55
50
45
40
35
30
25
20

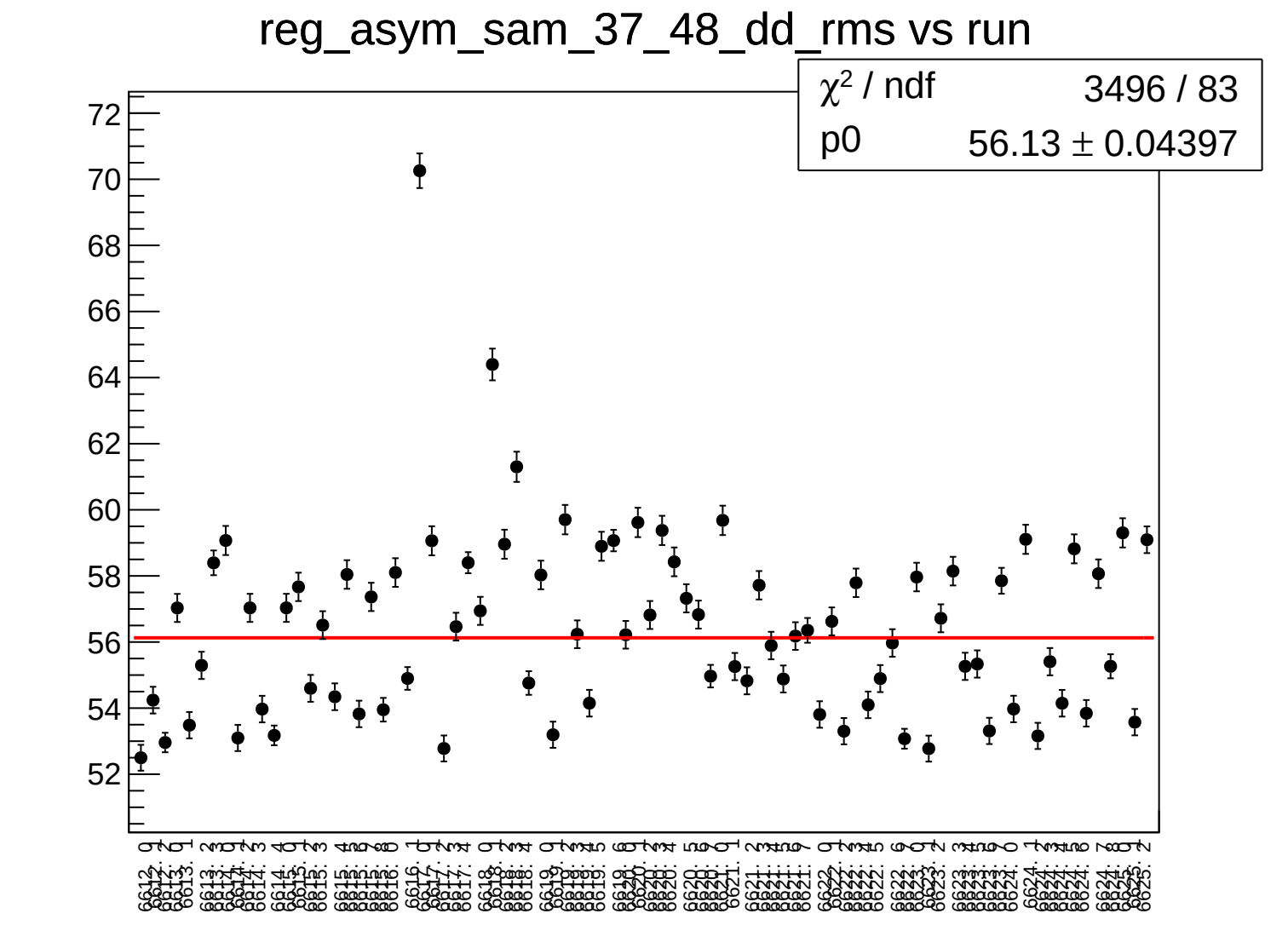

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.27 / 83
p0 −8.533e−15 ± 8.103e−15
pull
Entries 84
Mean 47.34
Std Dev 19.52

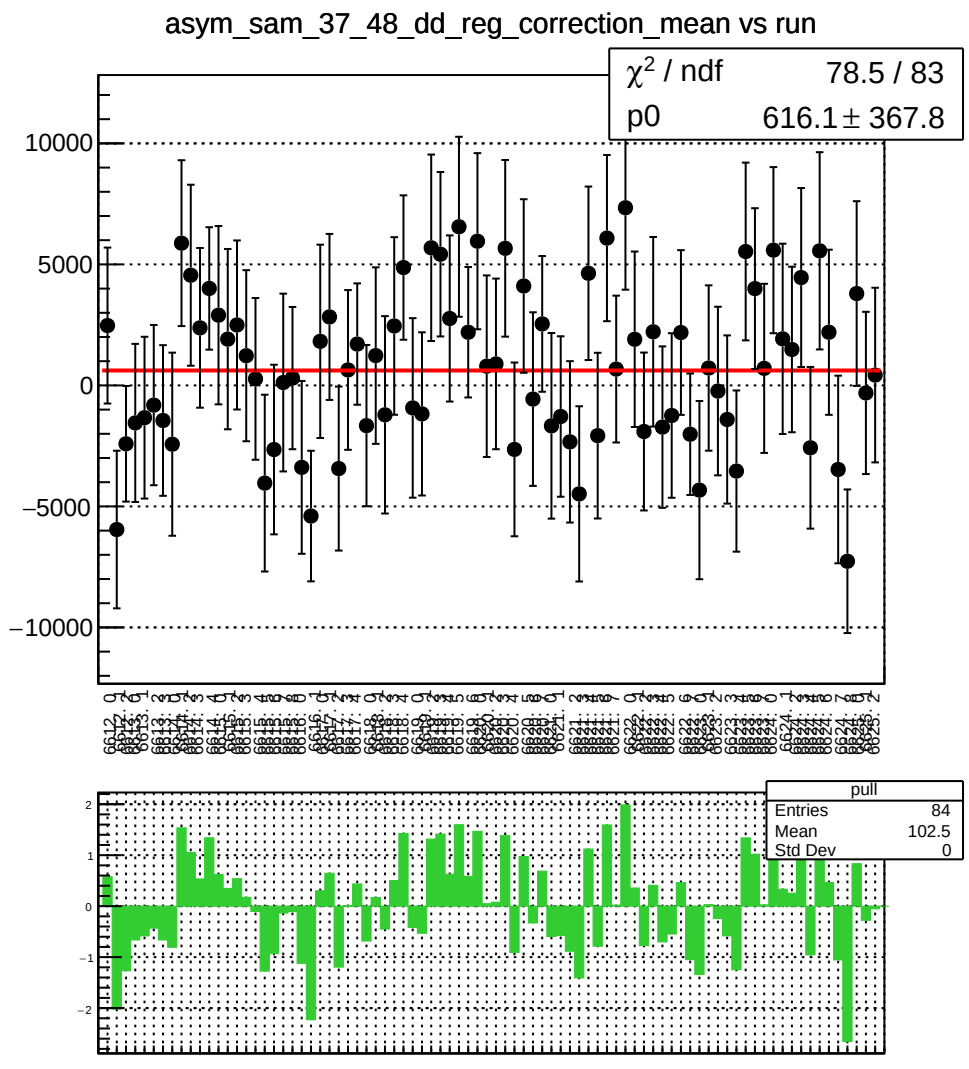

pull1D
Entries 84
Mean 0.08823
Std Dev 0.9169

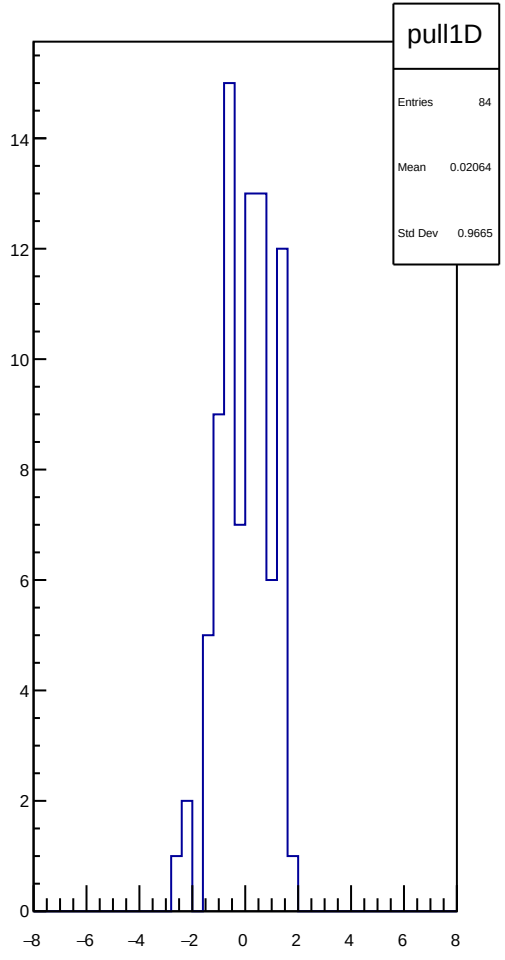

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.208e+05 / 83
p0 5.764e−12 ± 5.73e−15
45
40
35
30
25
20
15
10
5

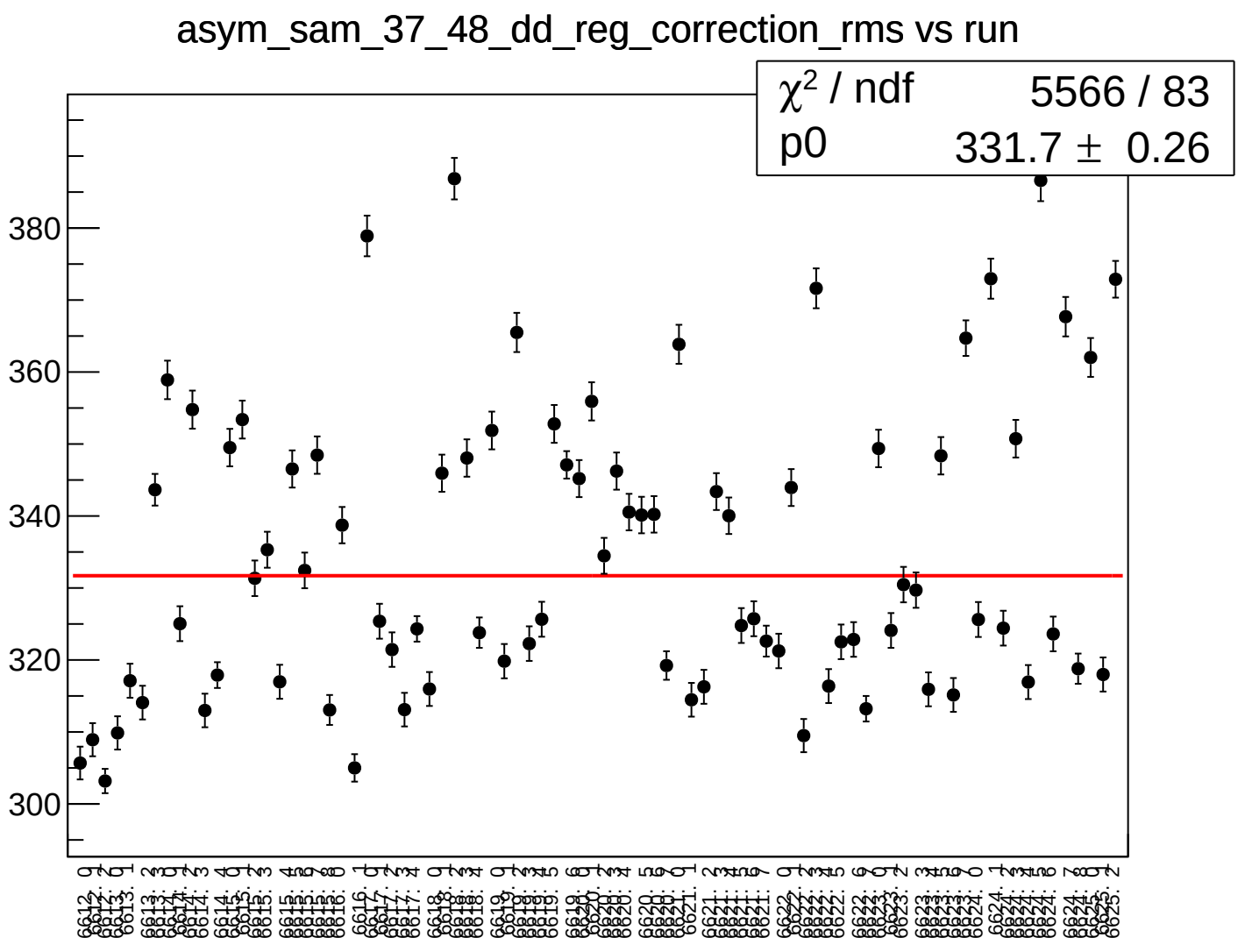

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 84.49 / 83
p0 67.13 ± 62.19
pull
Entries 84
Mean 137.2
Std Dev 0

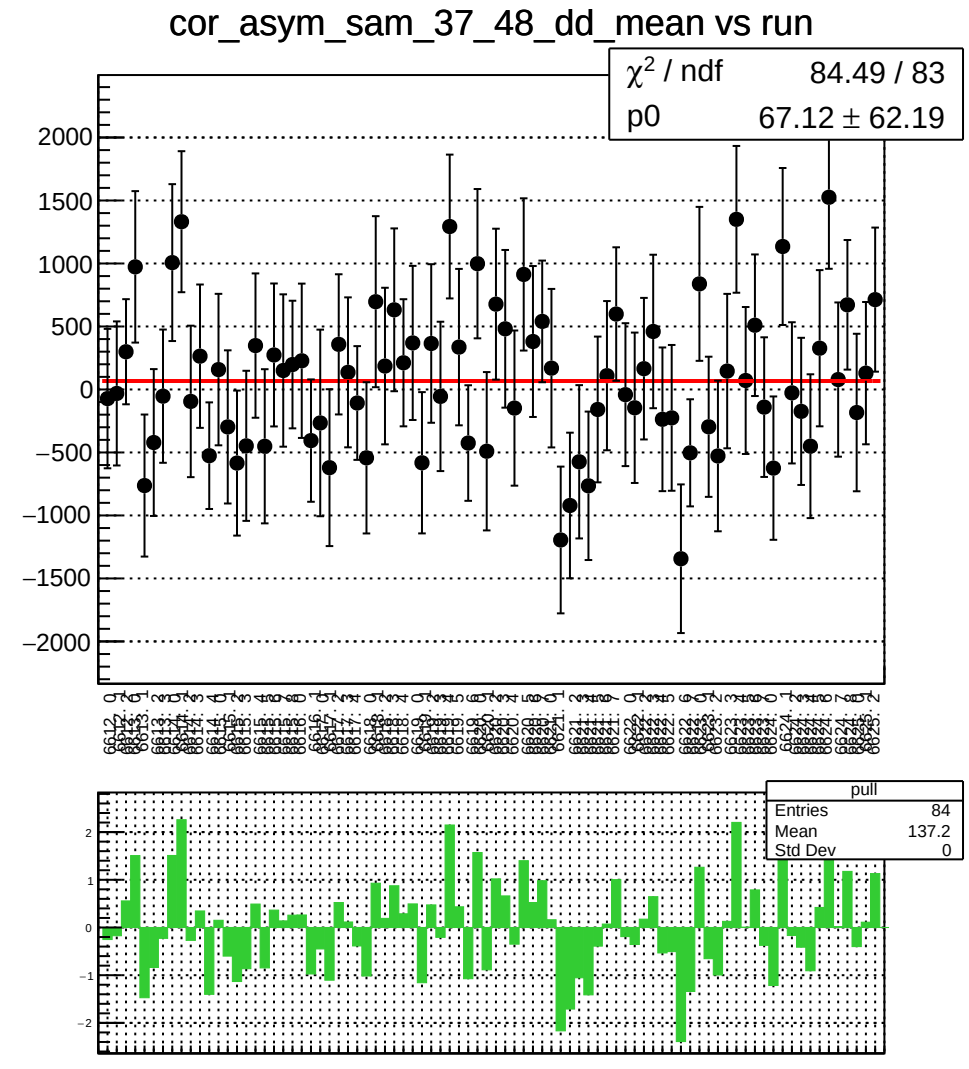

pull1D
Entries 84
Mean 0.01423
Std Dev 1.003

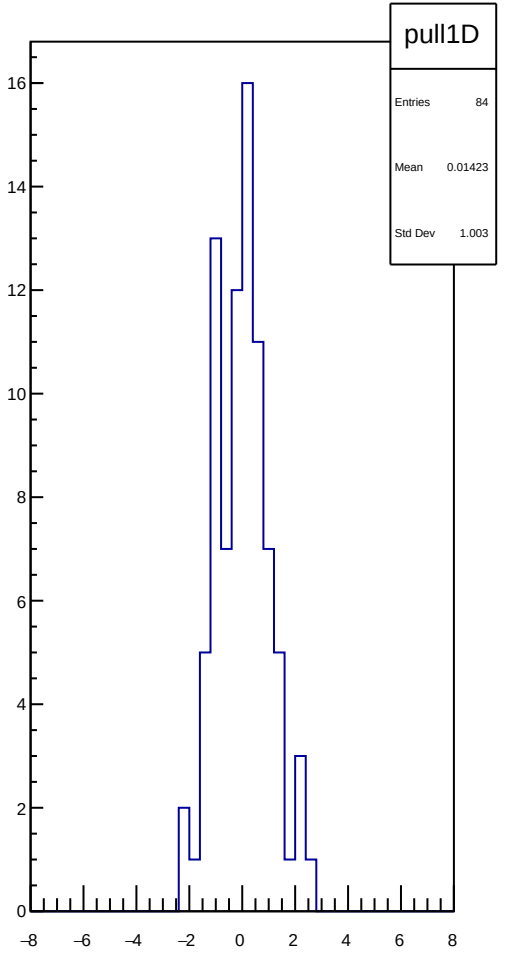

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 3496 / 83
p0 56.13 ± 0.04397
72
70
68
66
64
62
60
58
56
54
52

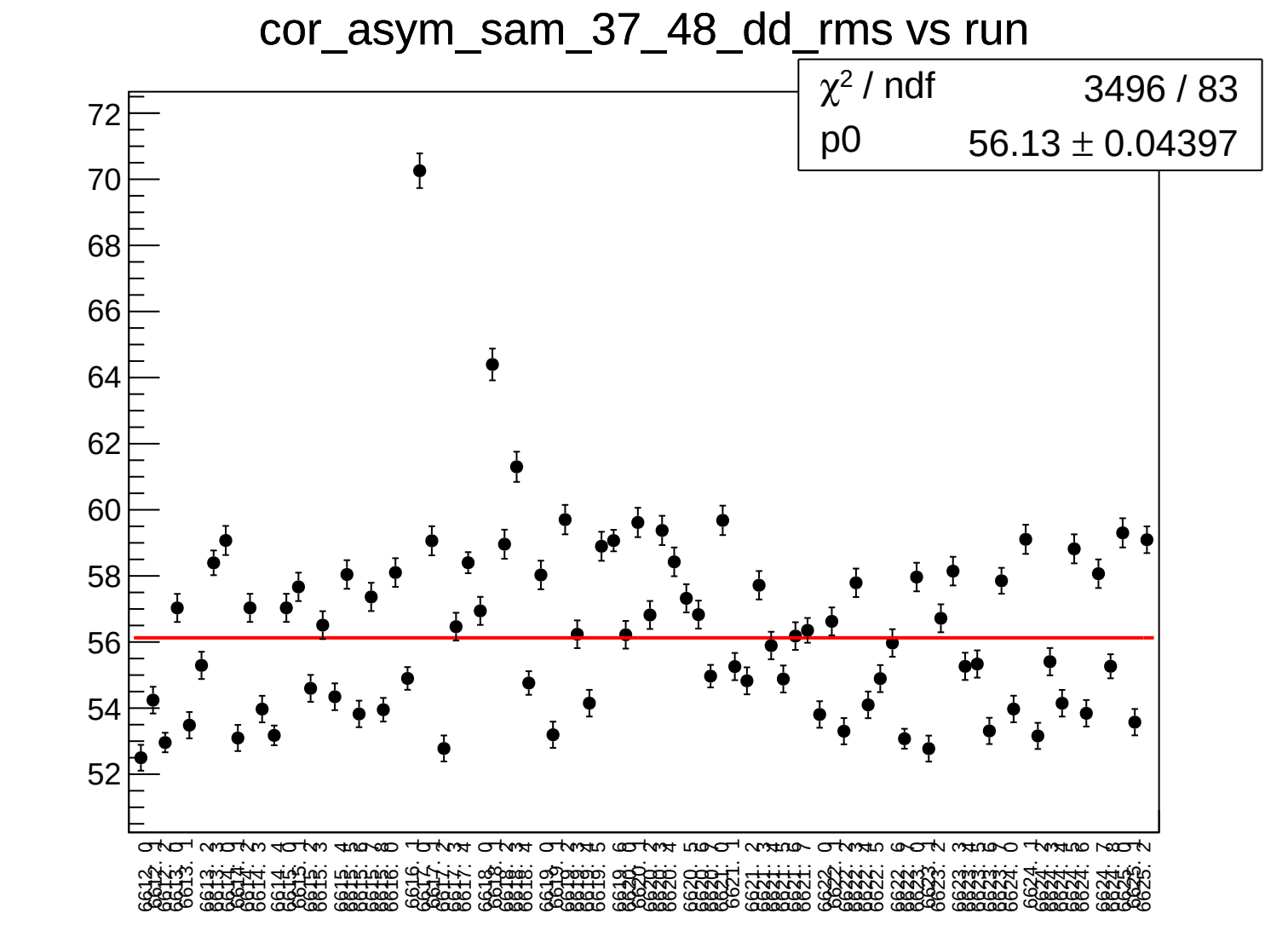

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 78.5 / 83
p0 616.1 ± 367.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 102.5
Std Dev 0
2
1
0
−1
−2

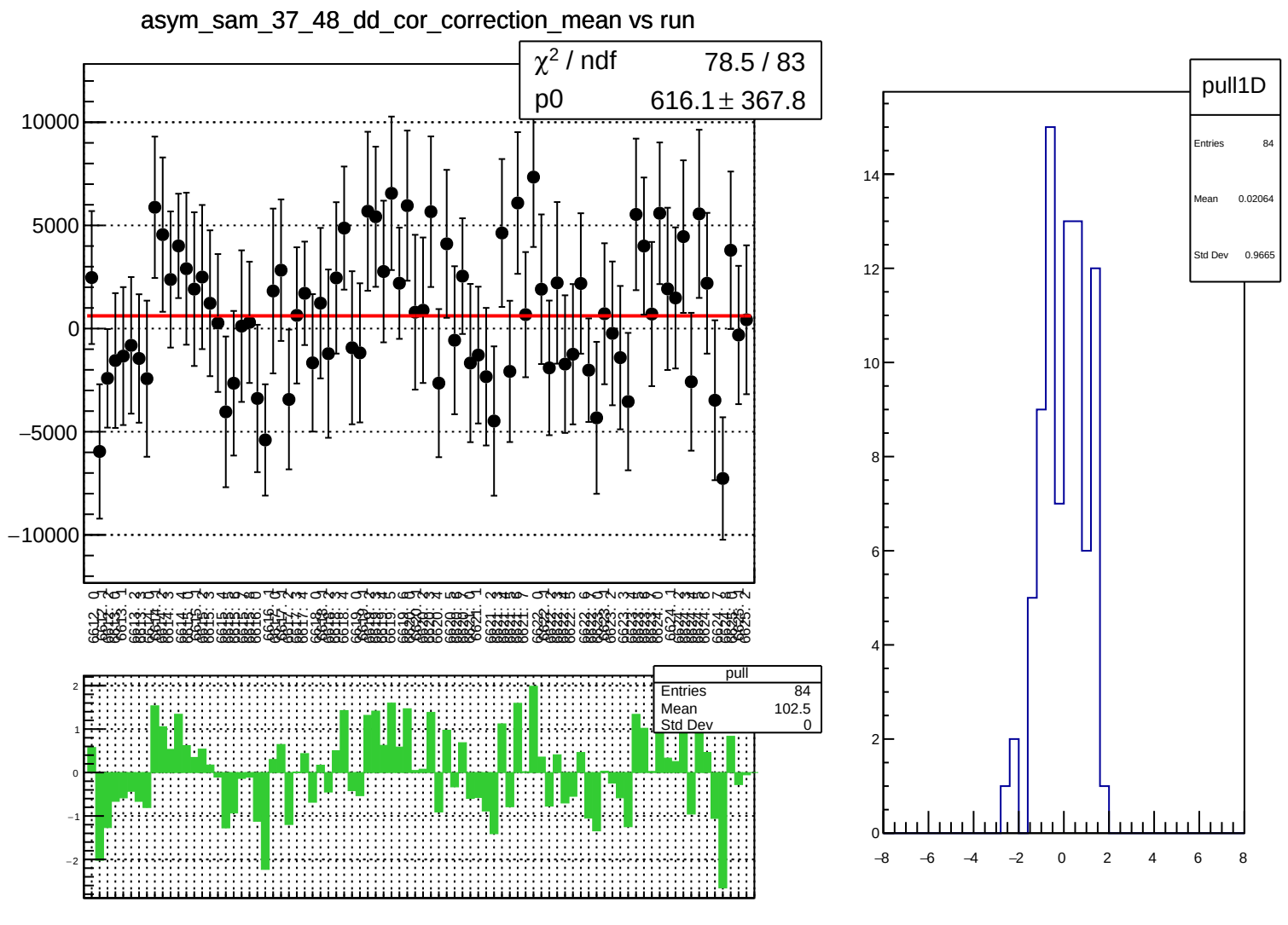

pull1D
Entries 84
Mean 0.02064
Std Dev 0.9665
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

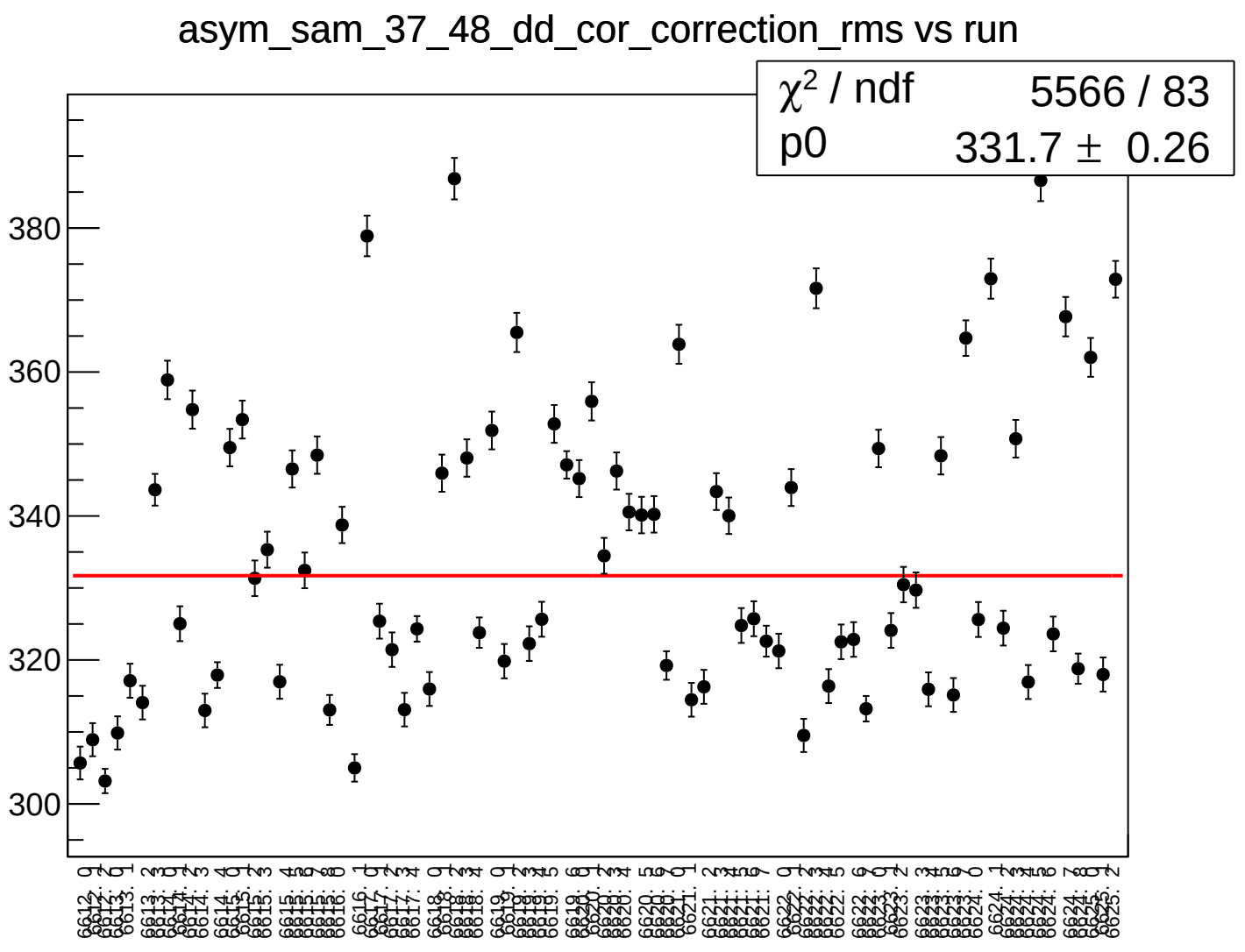

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 5566 / 83
p0 331.7 ± 0.26
380
360
340
320
300

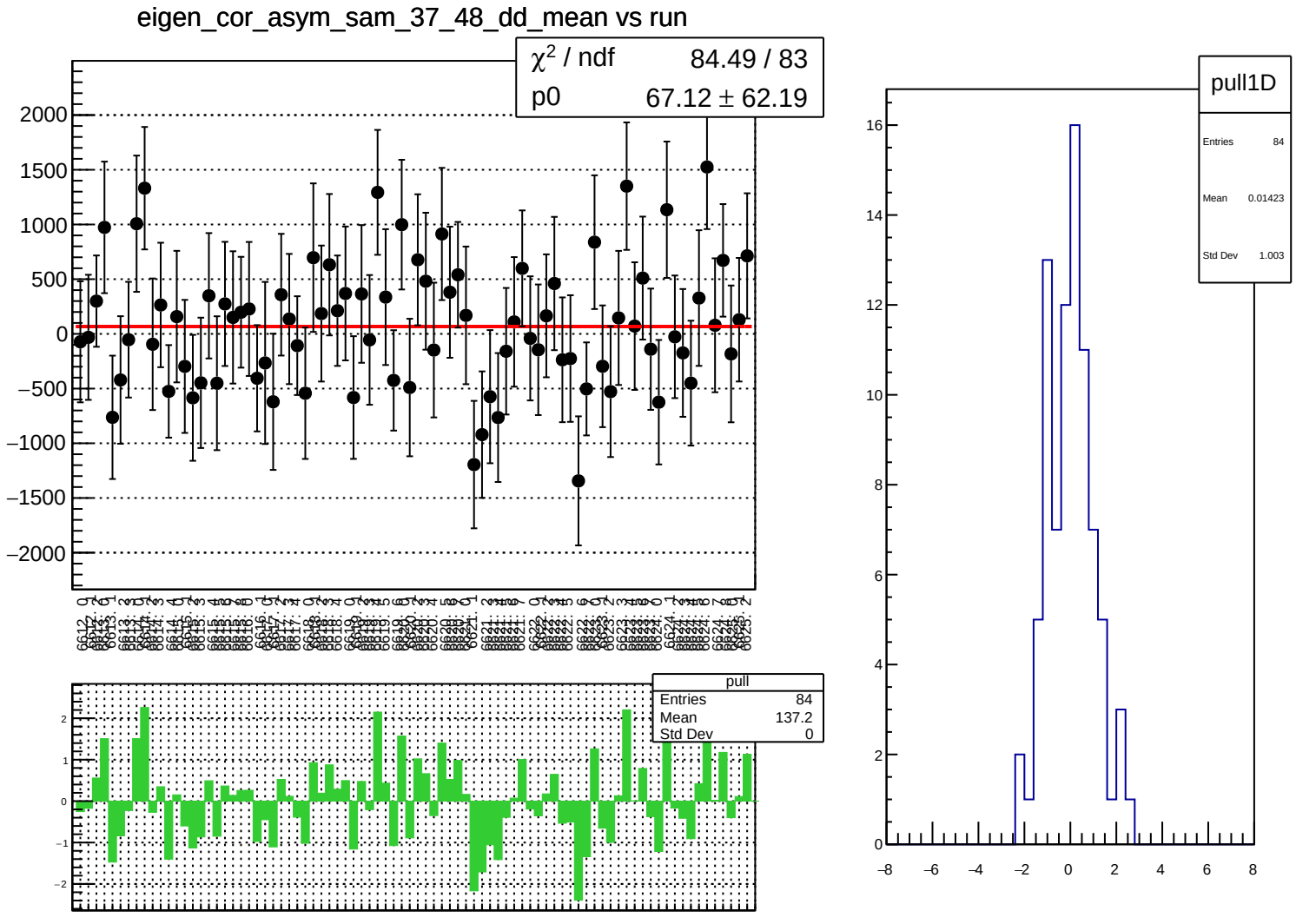

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 84.49 / 83
p0 67.12 ± 62.19
pull
Entries 84
Mean 137.2
Std Dev 0

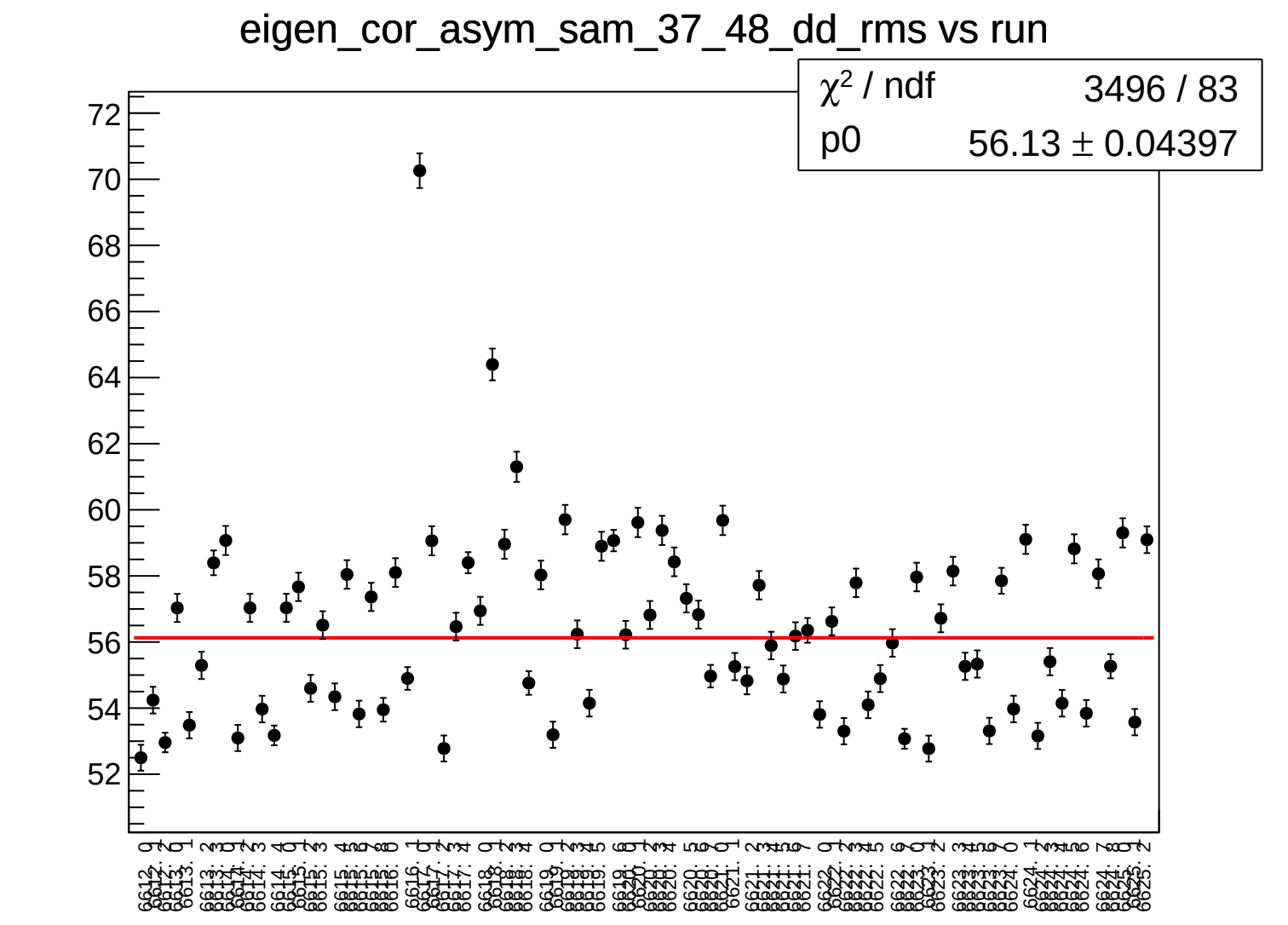

pull1D
Entries 84
Mean 0.01423
Std Dev 1.003

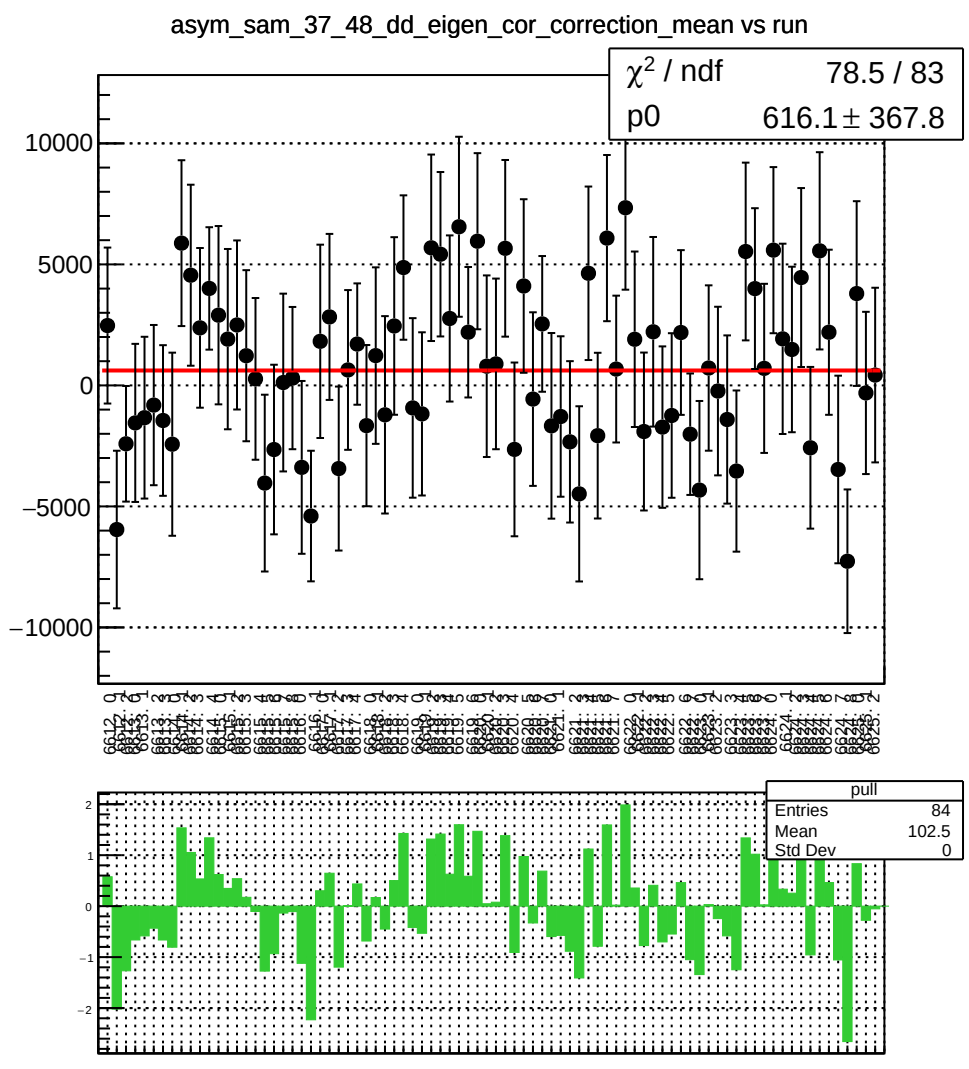

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 3496 / 83
p0 56.13 ± 0.04397
72
70
68
66
64
62
60
58
56
54
52

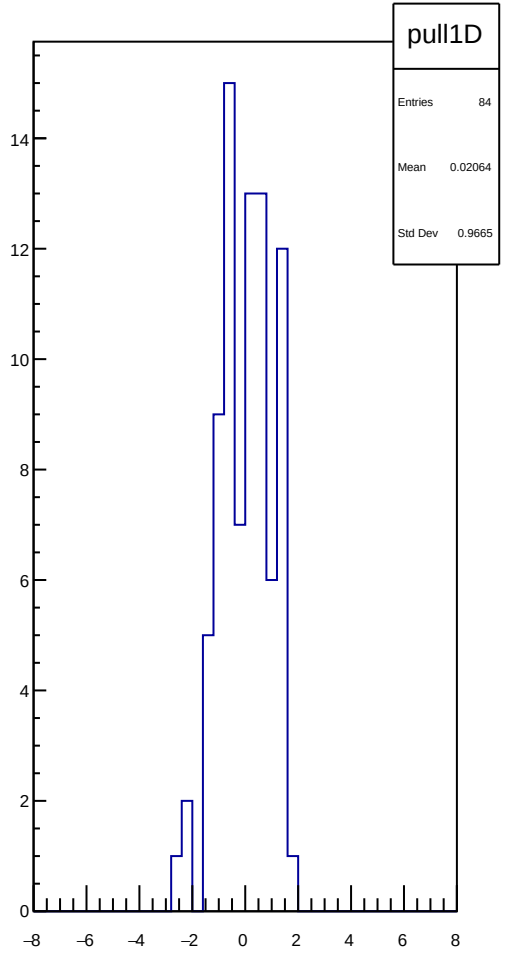

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 78.5 / 83
p0 616.1 ± 367.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 102.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.02064
Std Dev 0.9665
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

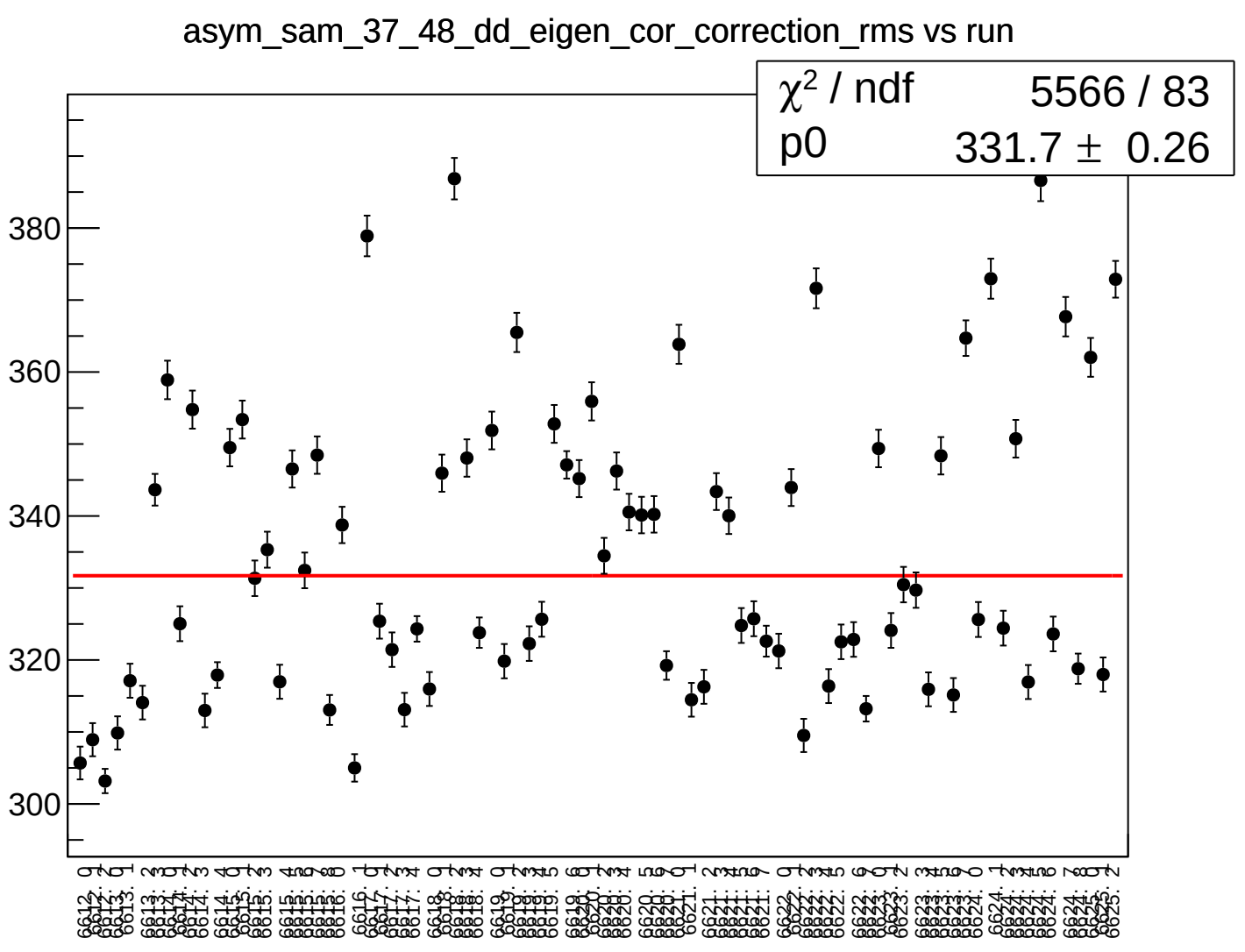

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 5566 / 83
p0 331.7 ± 0.26
380
360
340
320
300

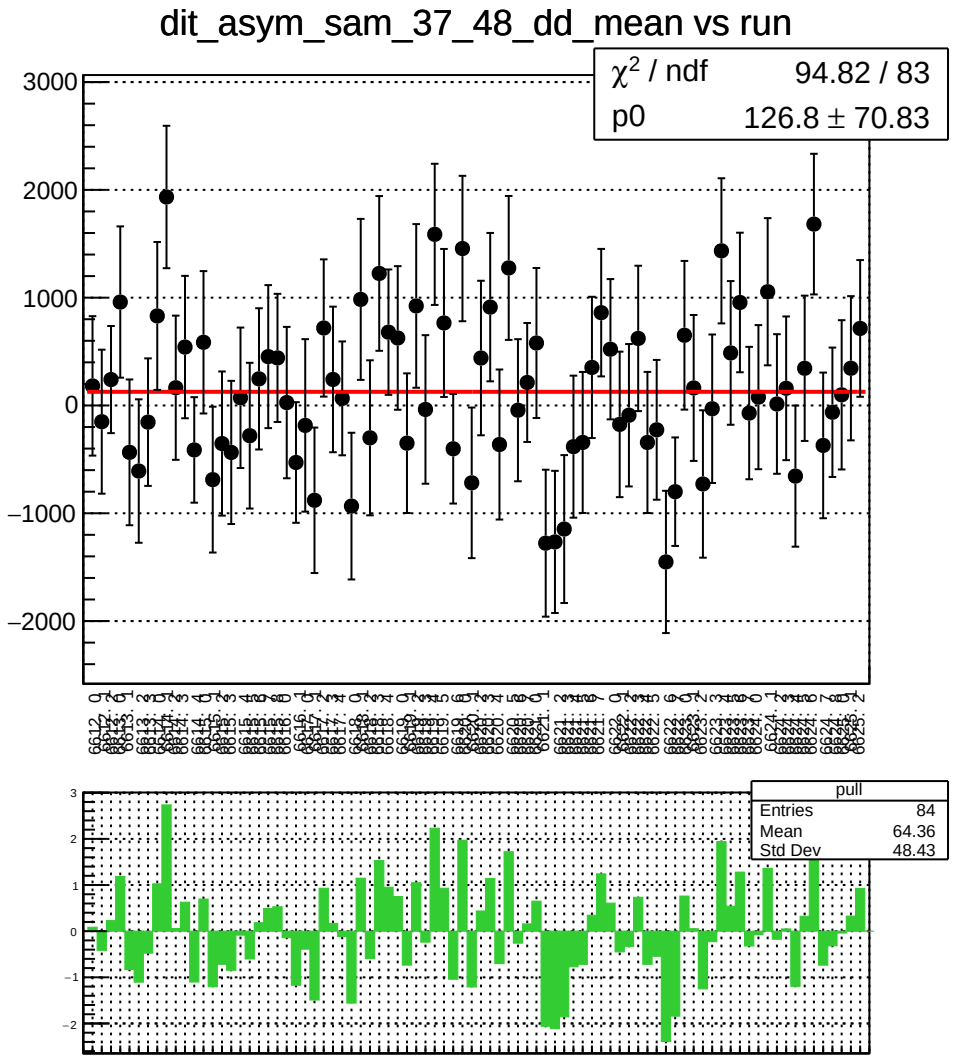

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 84.49 / 83
p0 67.12 ± 62.19
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 84
Mean 137.2
Std Dev 0
pull1D
Entries 84
Mean 0.01423
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

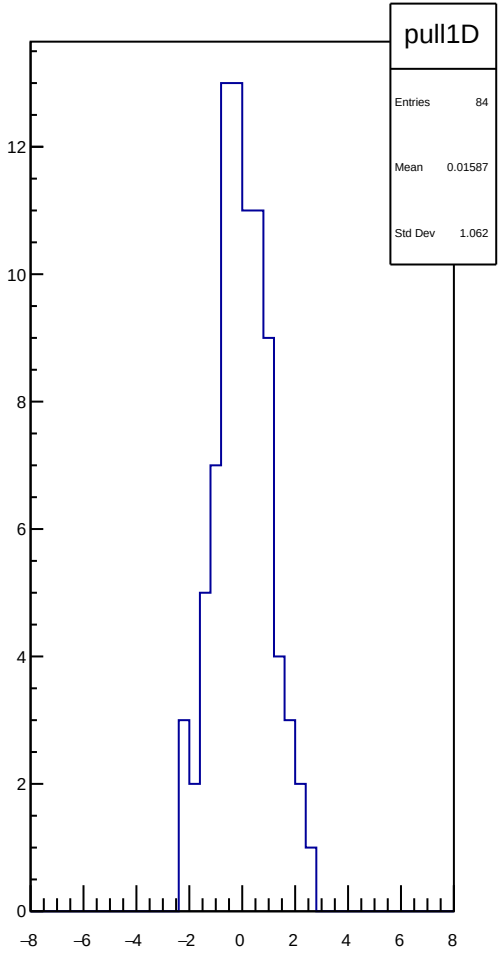

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 3496 / 83
p0 56.13 ± 0.04397
72
70
68
66
64
62
60
58
56
54
52

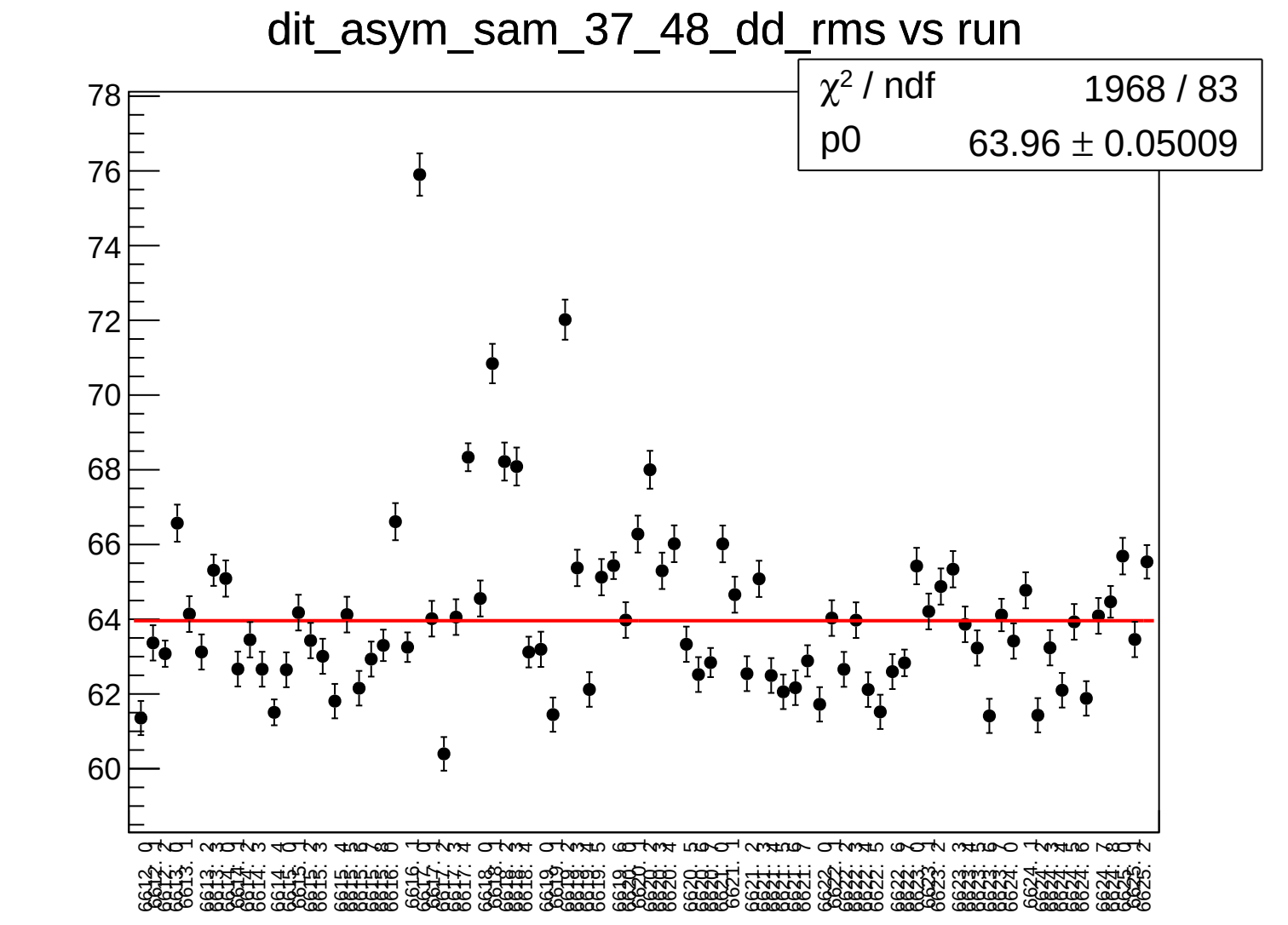

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.5 / 83
p0 616.1 ± 367.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 102.5
Std Dev 0
2
1
0
−1
−2

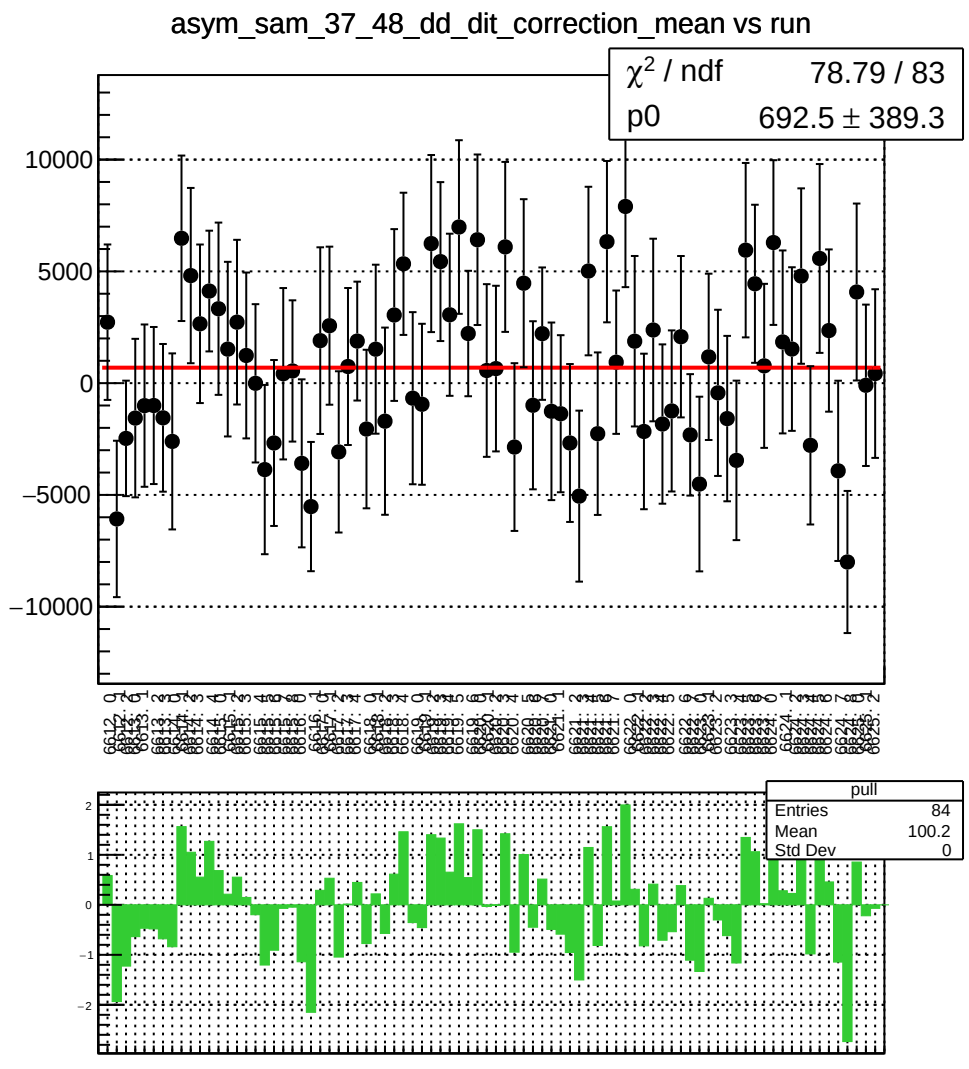

pull1D
Entries 84
Mean 0.02064
Std Dev 0.9665
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

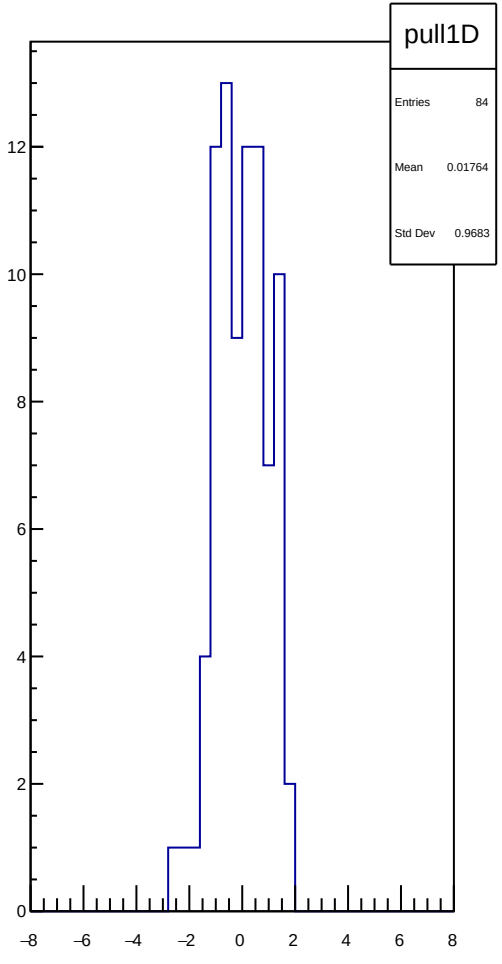

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5566 / 83
p0 331.7 ± 0.26
380
360
340
320
300

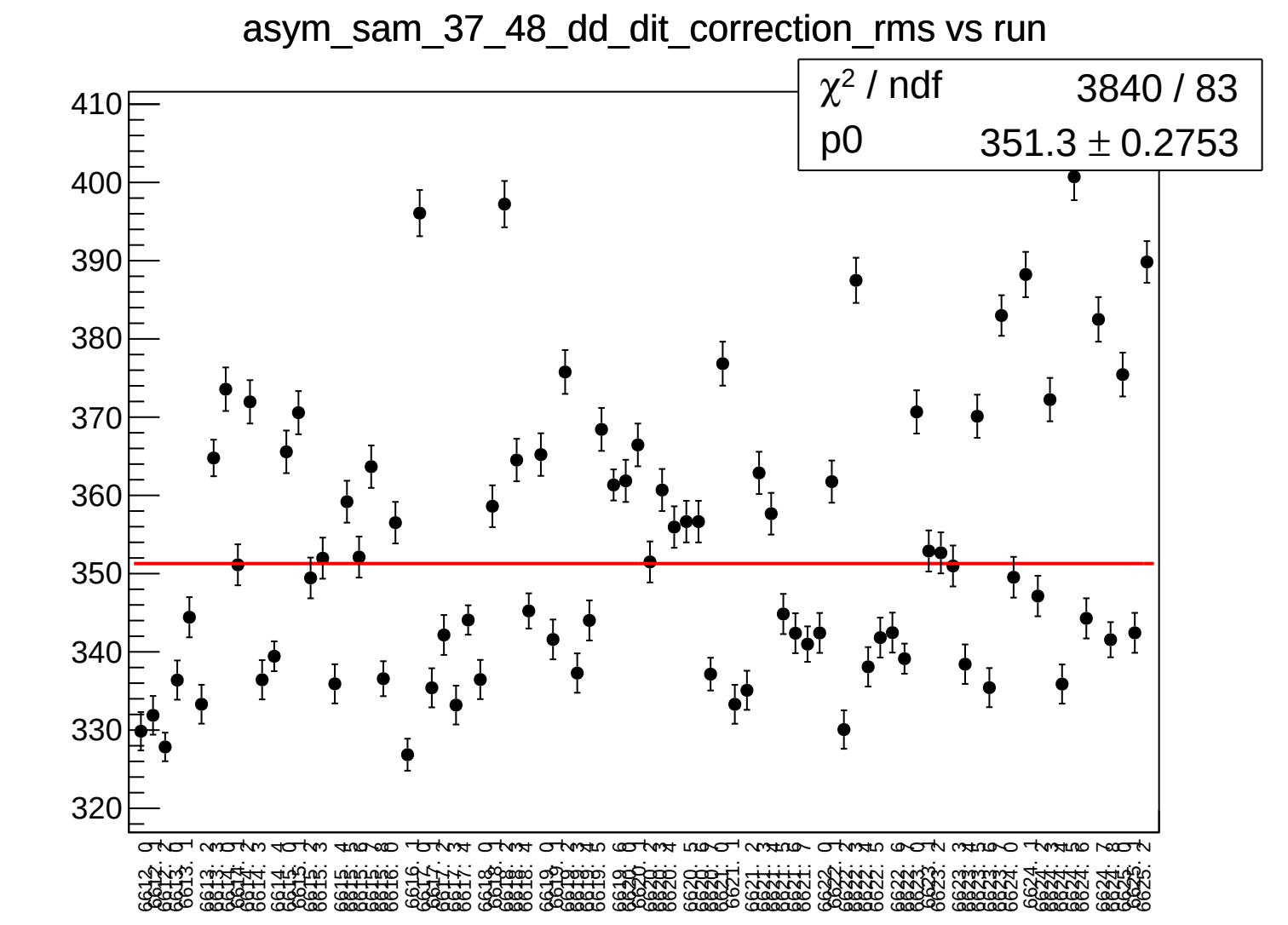

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 94.82 / 83
p0 126.8 ± 70.83
pull
Entries 84
Mean 64.36
Std Dev 48.43

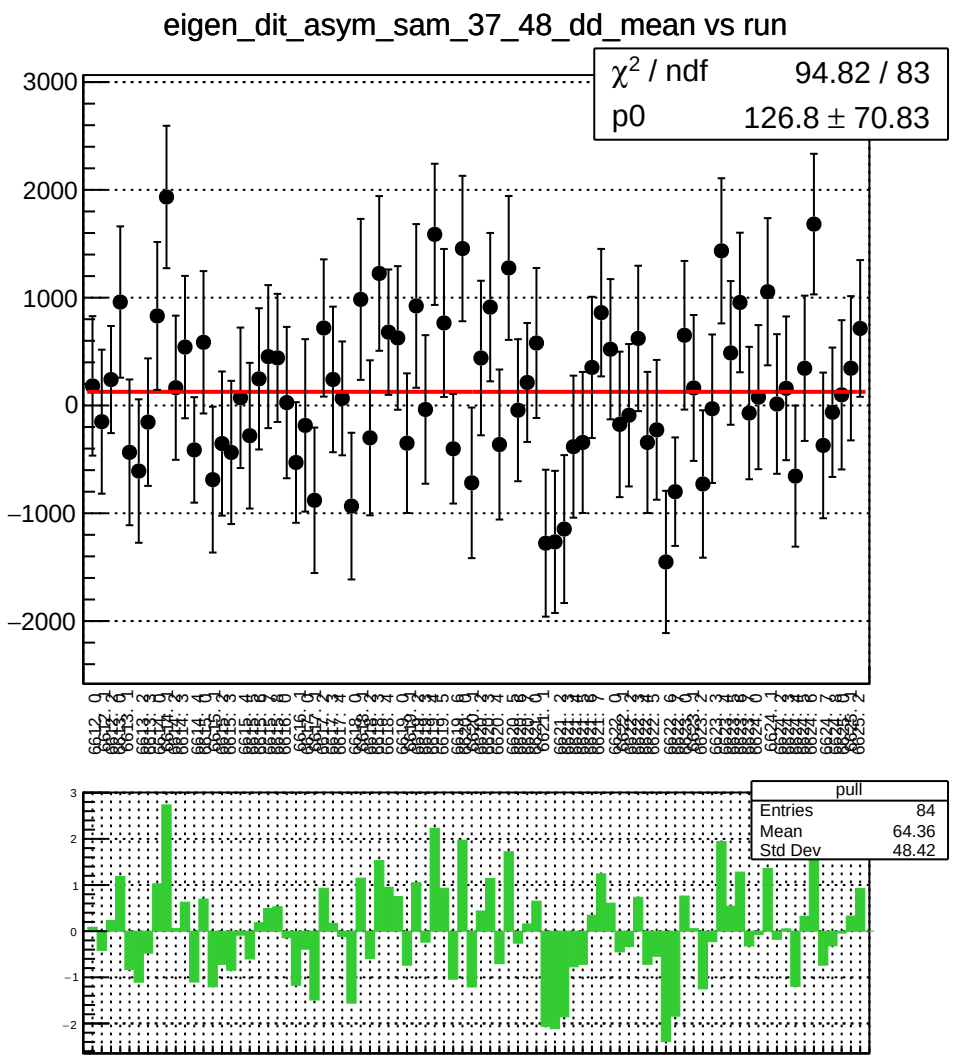

pull1D
Entries 84
Mean 0.01587
Std Dev 1.062

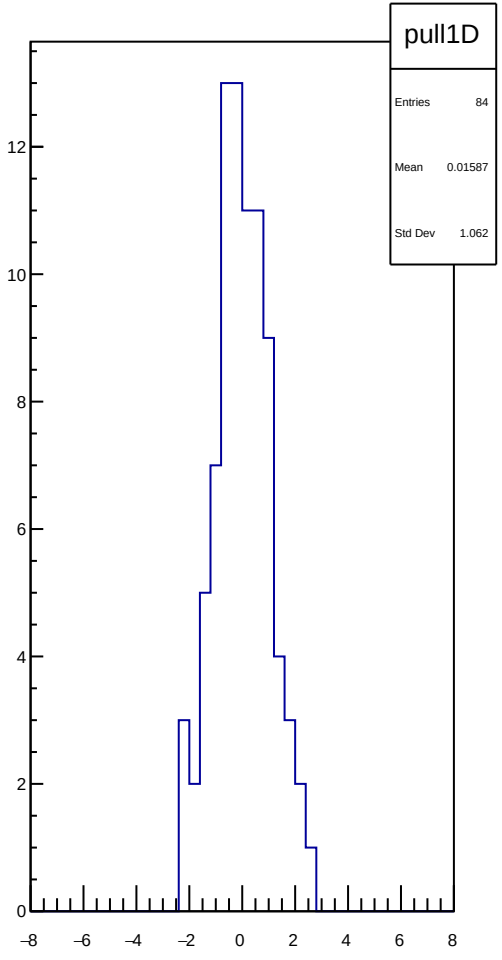

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1968 / 83
p0 63.96 ± 0.05009
78
76
74
72
70
68
66
64
62
60

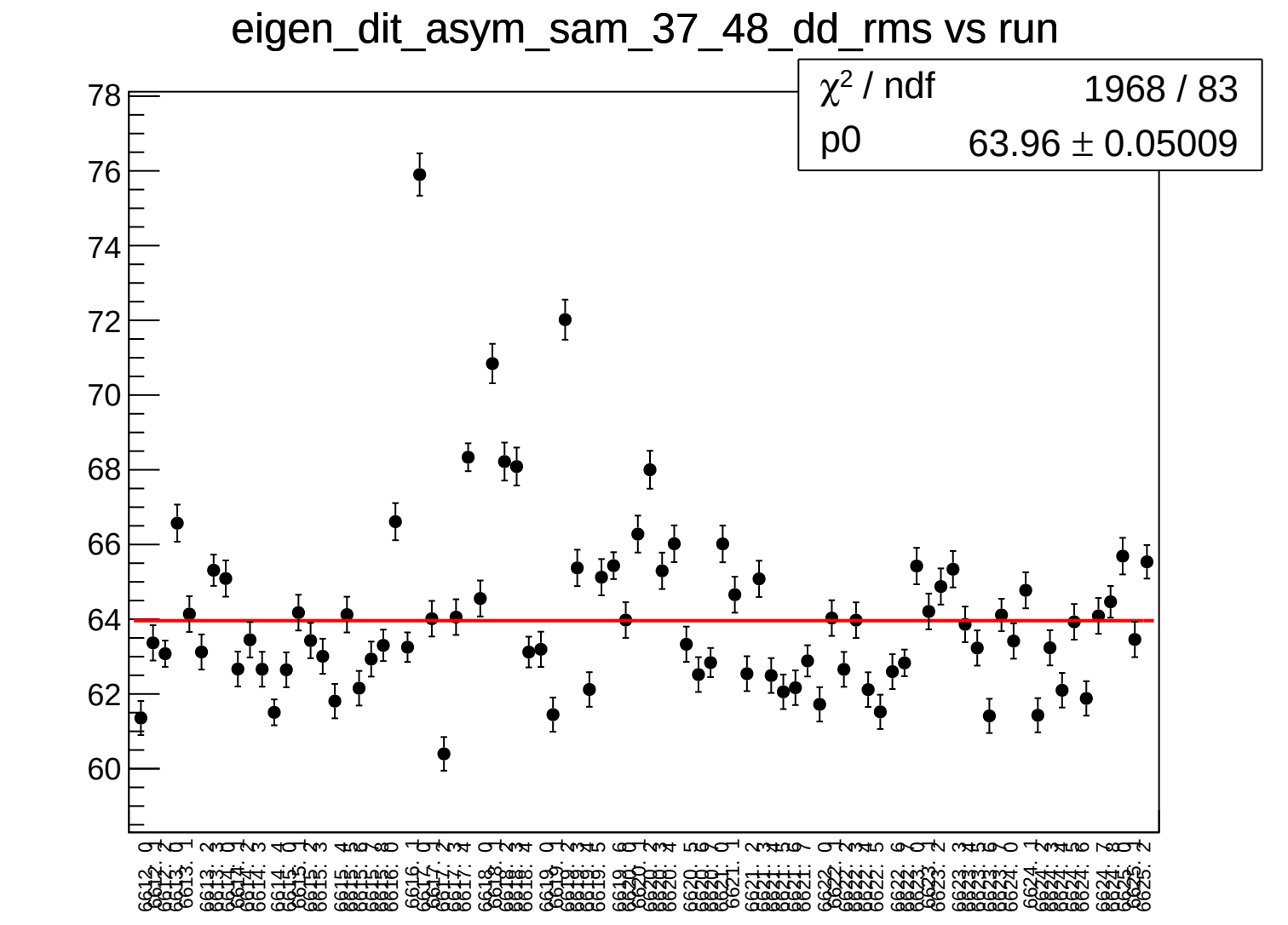

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 78.79 / 83
p0 692.5 ± 389.3
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 100.2
Std Dev 0
2
1
0
−1
−2

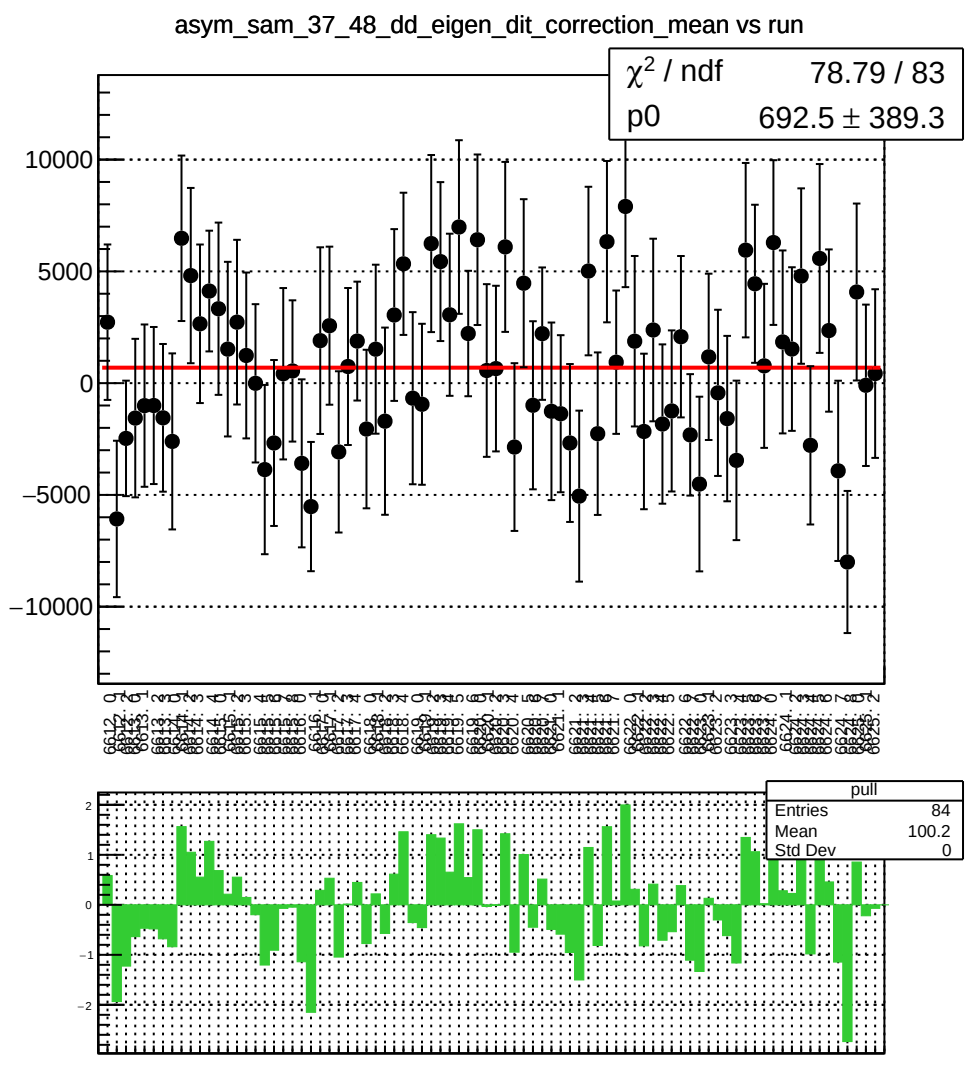

pull1D
Entries 84
Mean 0.01764
Std Dev 0.9683
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

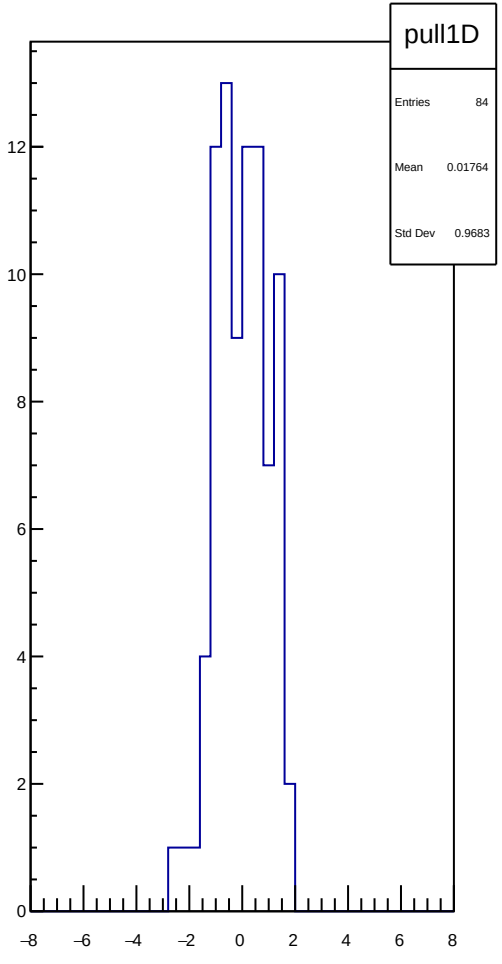

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 3840 / 83
p0 351.3 ± 0.2753
410
400
390
380
370
360
350
340
330
320

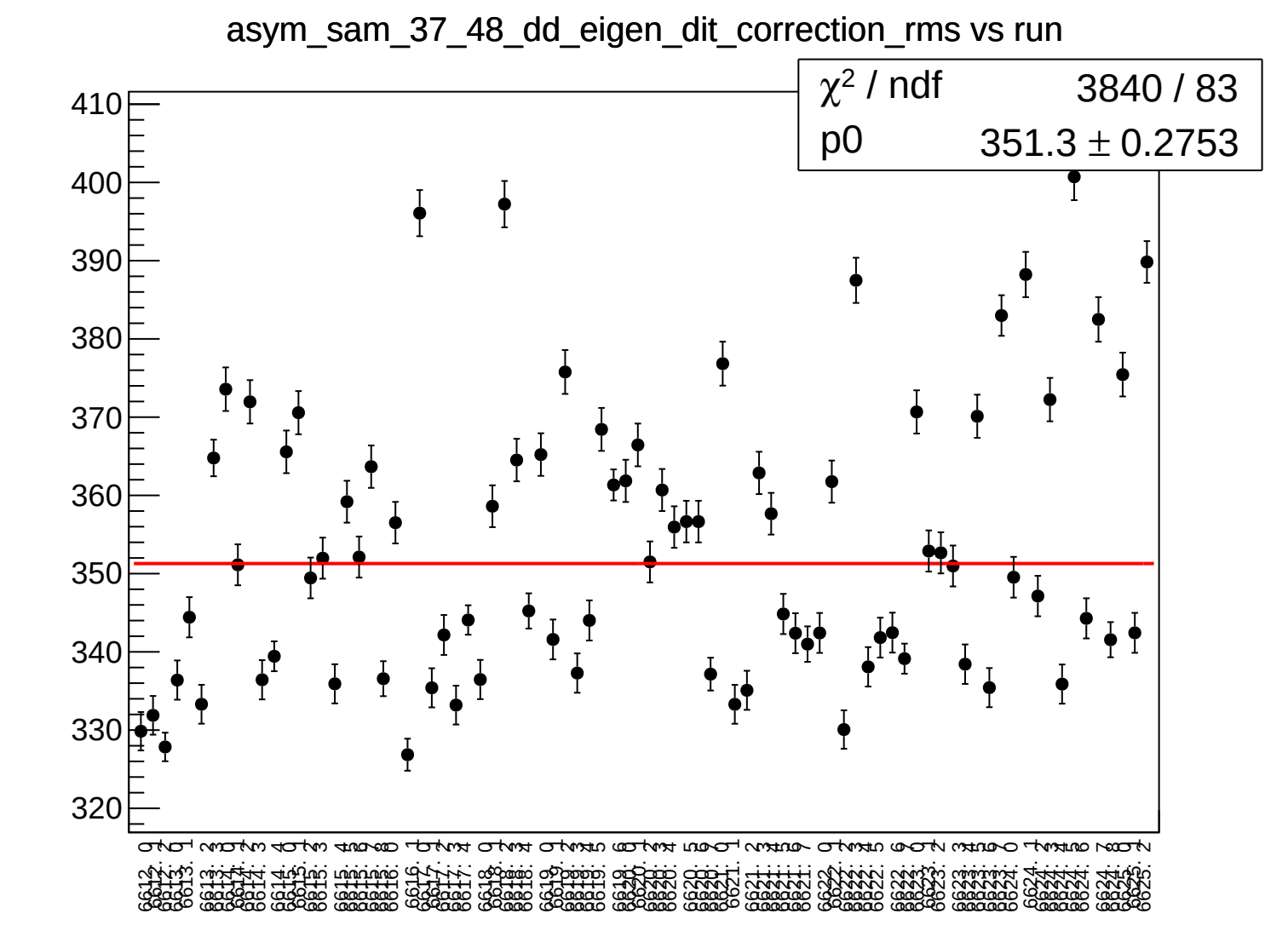

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 94.82 / 83
p0 126.8 ± 70.83
3000
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 64.36
Std Dev 48.42
3
2
1
0
−1
−2

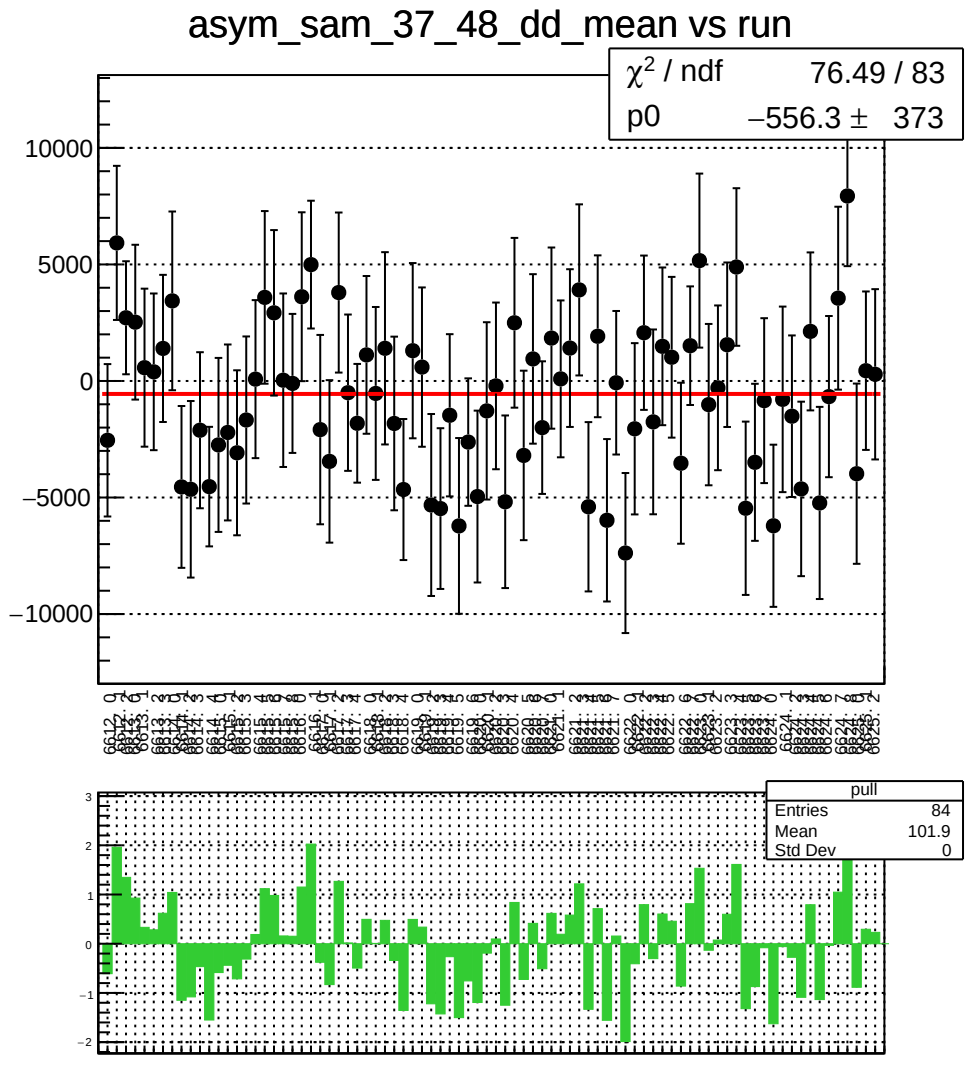

pull1D
Entries 84
Mean 0.01587
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

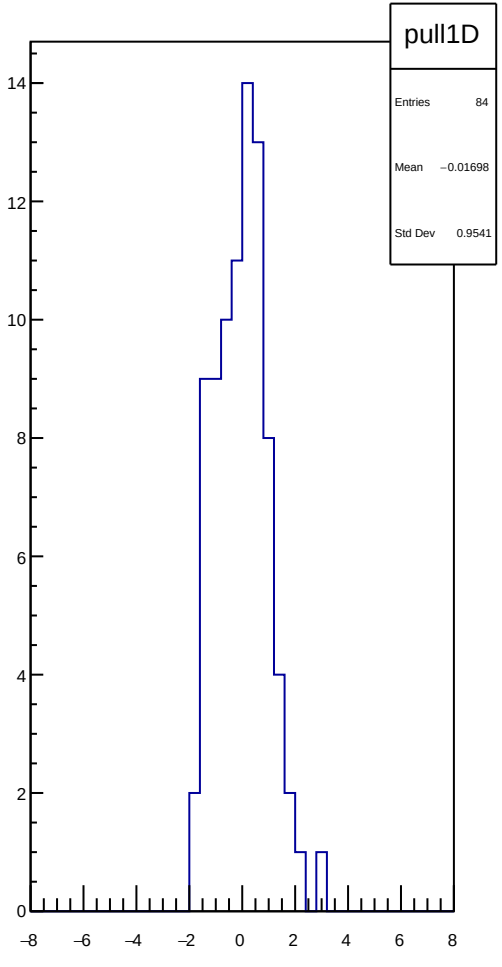

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1968 / 83
p0 63.96 ± 0.05009
78
76
74
72
70
68
66
64
62
60

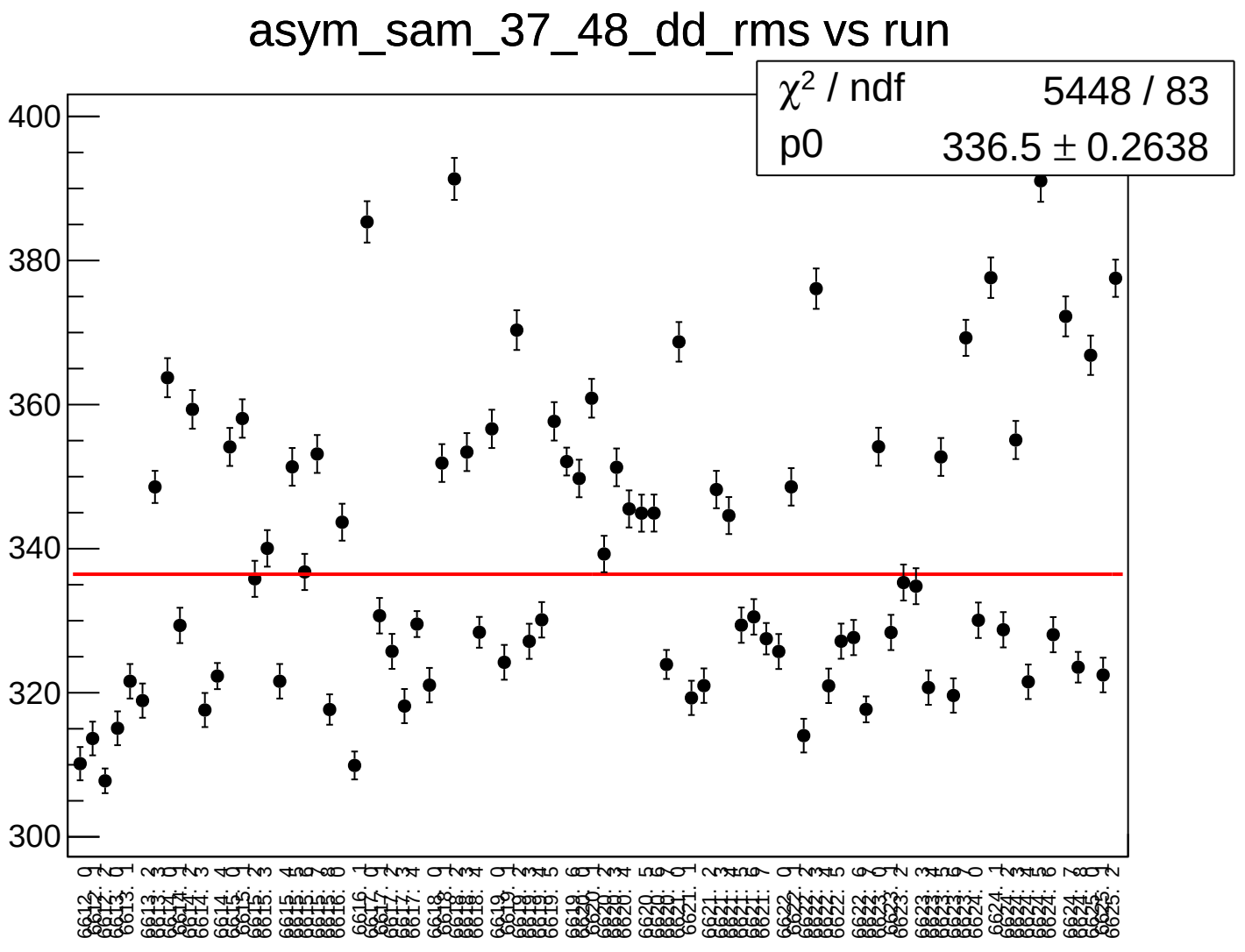

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.79 / 83
p0 692.5 ± 389.3
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 100.2
Std Dev 0
2
1
0
−1
−2

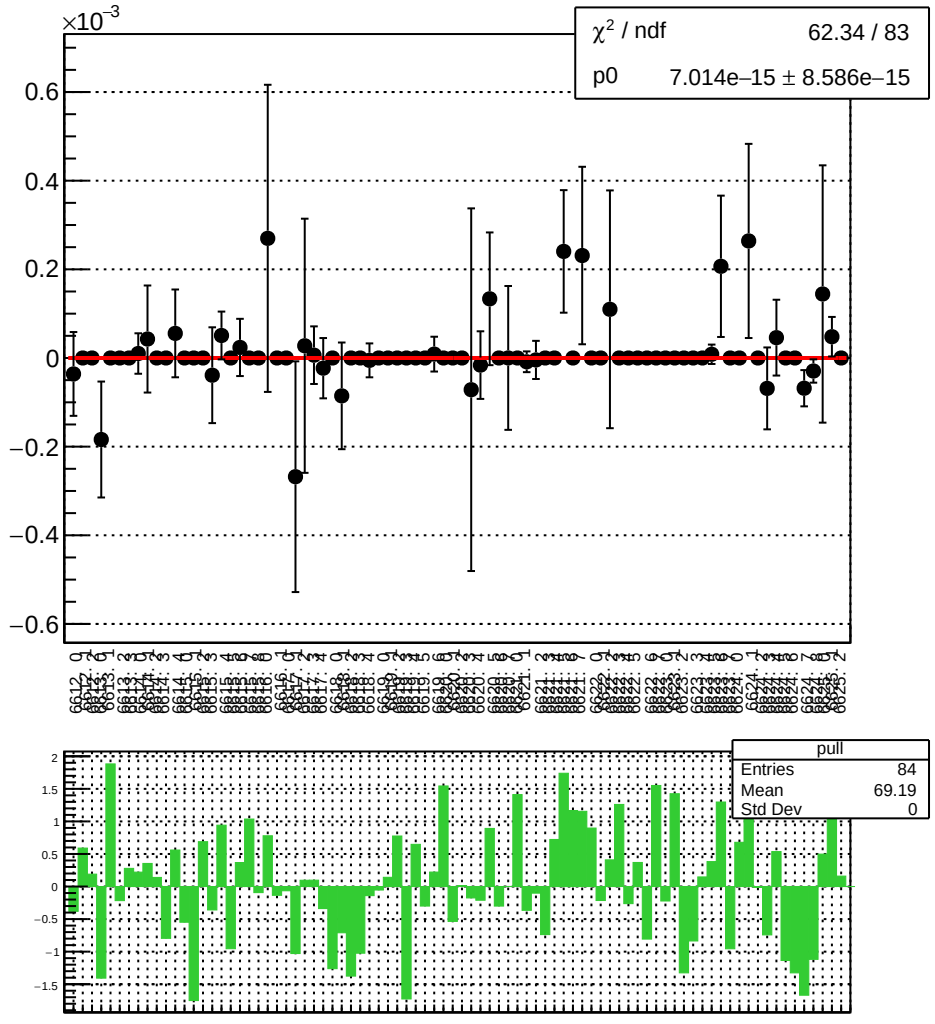

pull1D
Entries 84
Mean 0.01764
Std Dev 0.9683
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

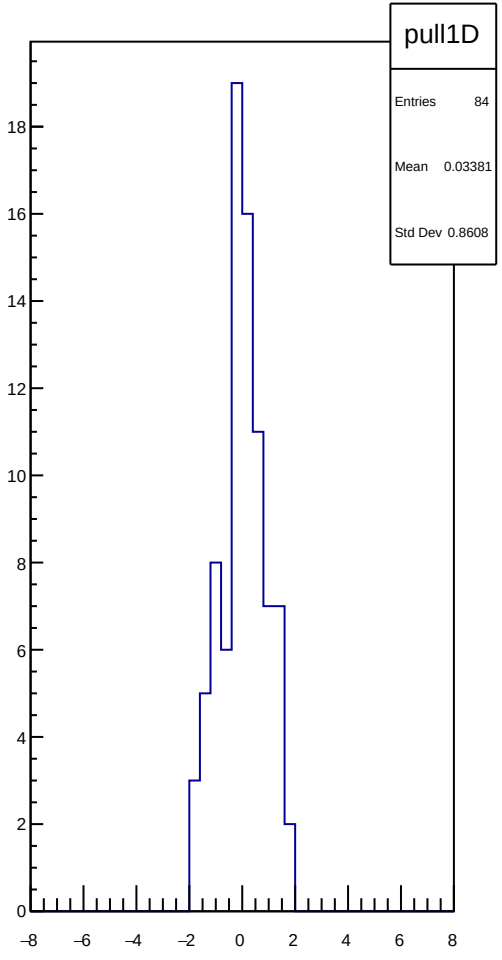

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3840 / 83
p0 351.3 ± 0.2753
410
400
390
380
370
360
350
340
330
320

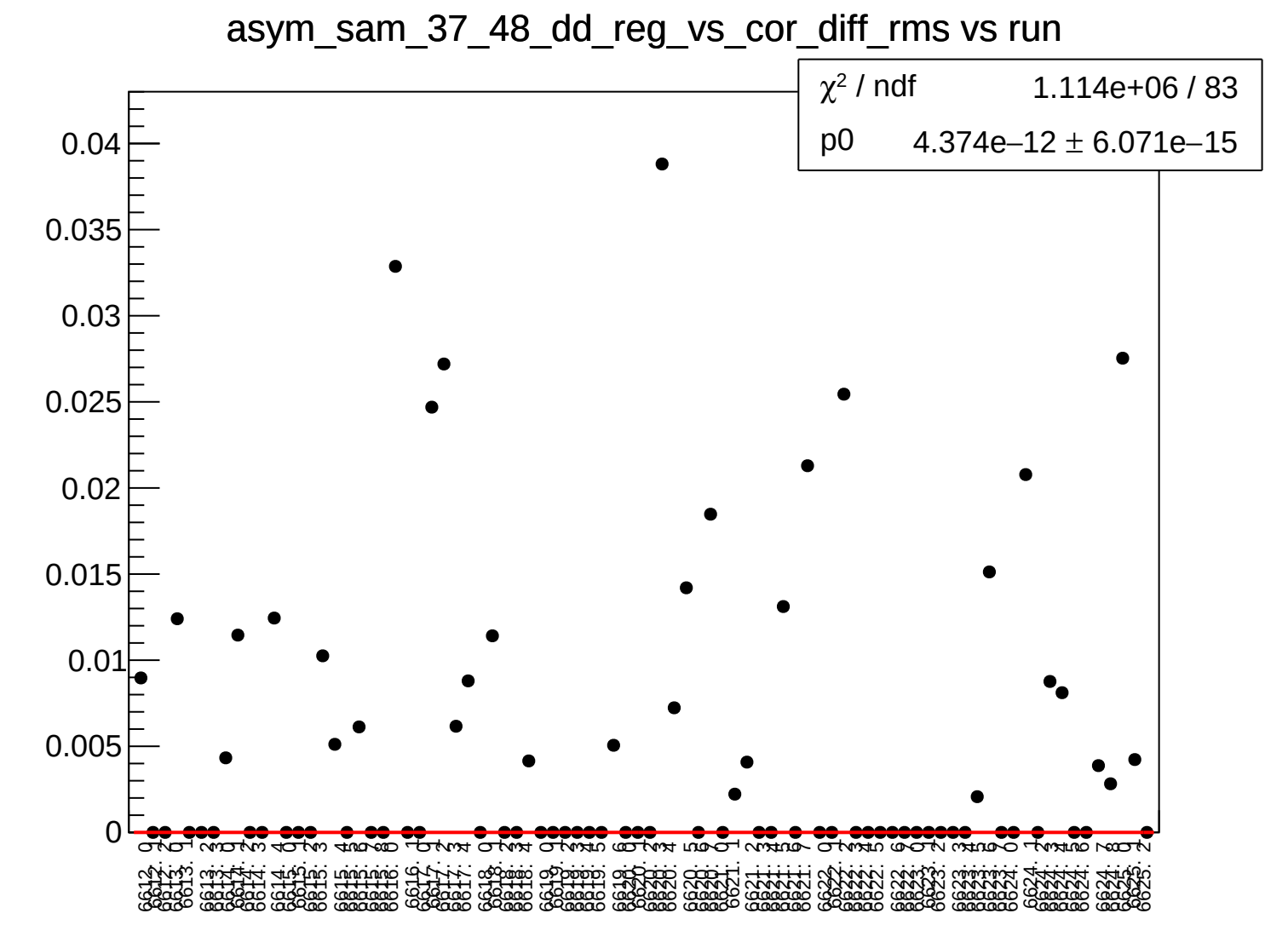

asym_sam_37_48_dd_mean vs run
χ² / ndf 76.49 / 83
p0 −556.3 ± 373
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 101.9
Std Dev 0
3
2
1
0
−1
−2

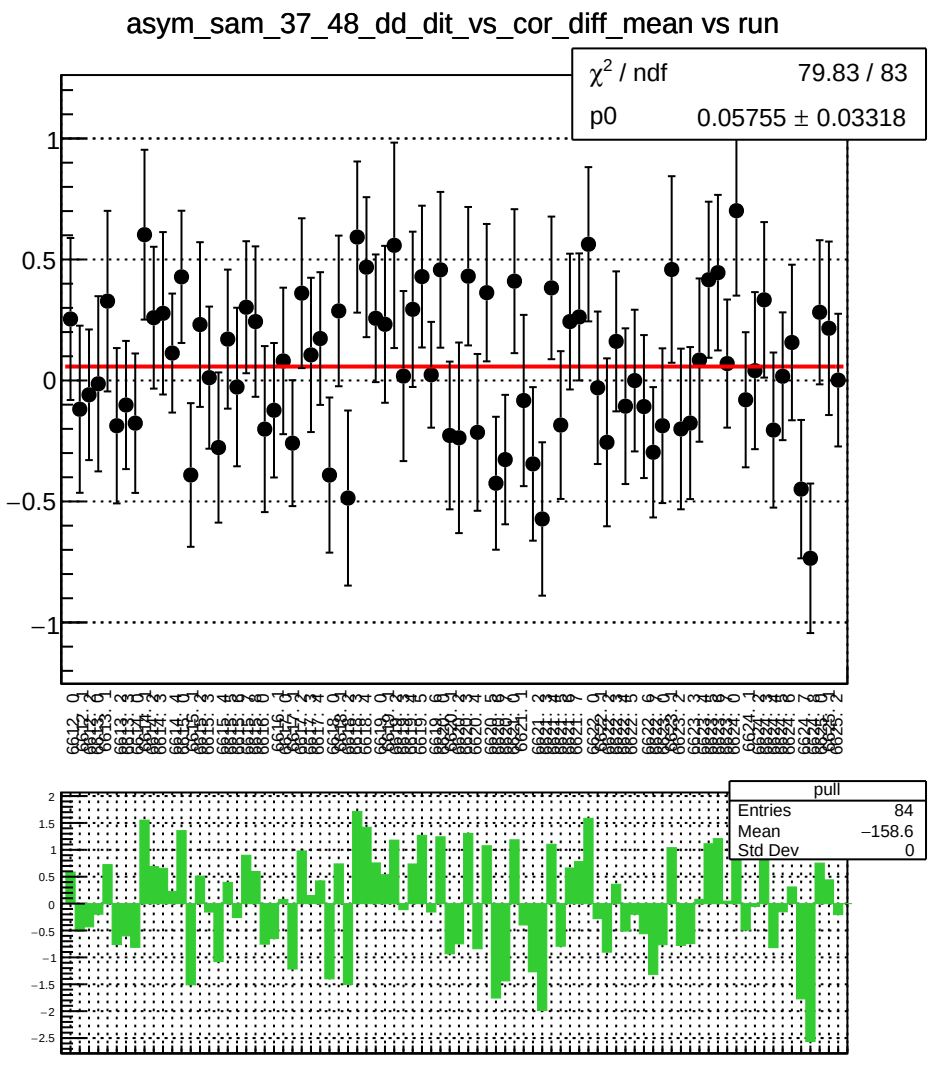

pull1D
Entries 84
Mean −0.01698
Std Dev 0.9541
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

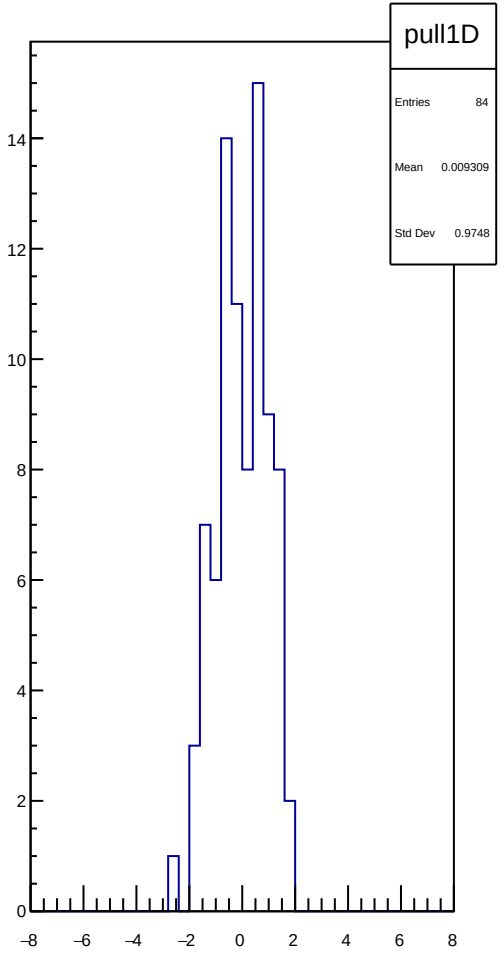

asym_sam_37_48_dd_rms vs run
χ² / ndf 5448 / 83
p0 336.5 ± 0.2638
400
380
360
340
320
300

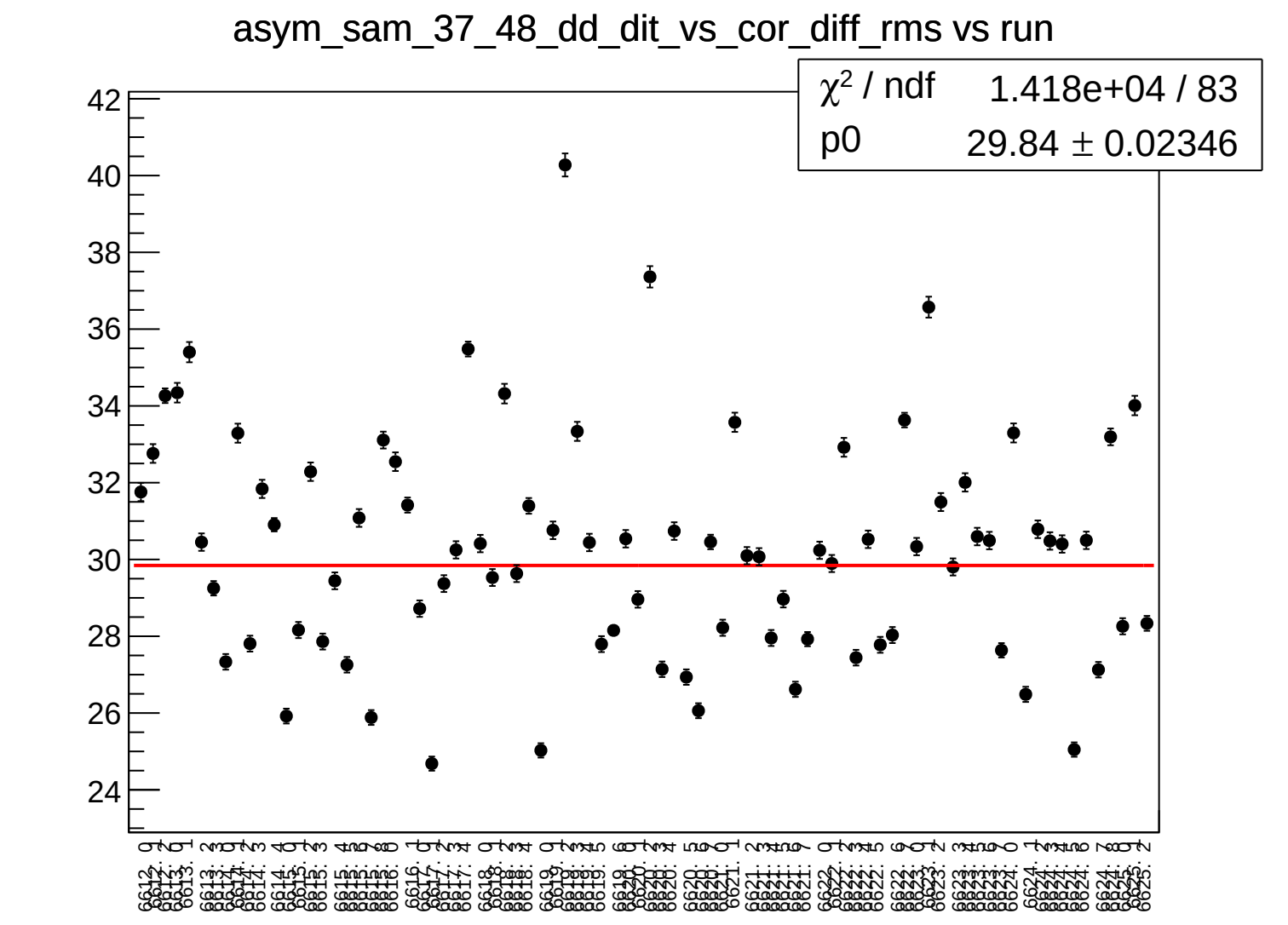

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 62.34 / 83
p0 7.014e−15 ± 8.586e−15
pull
Entries 84
Mean 69.19
Std Dev 0

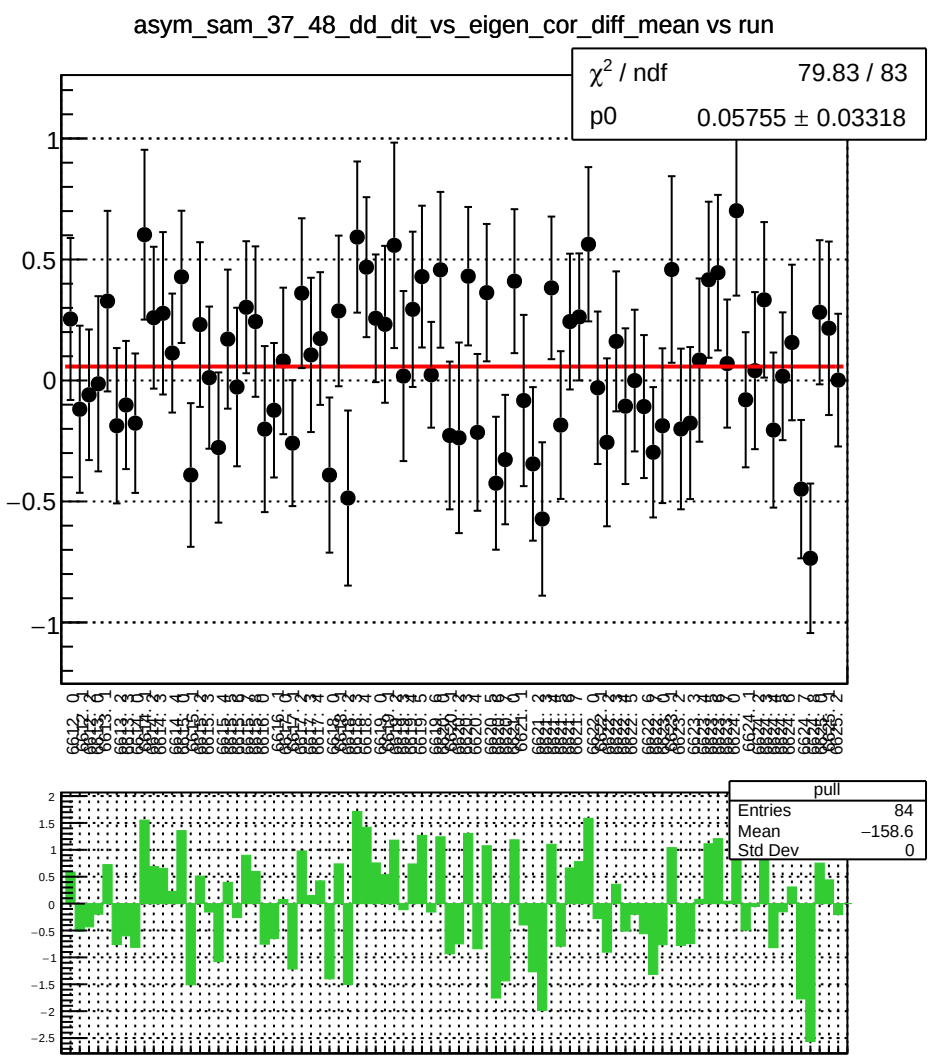

pull1D
Entries 84
Mean 0.03381
Std Dev 0.8608

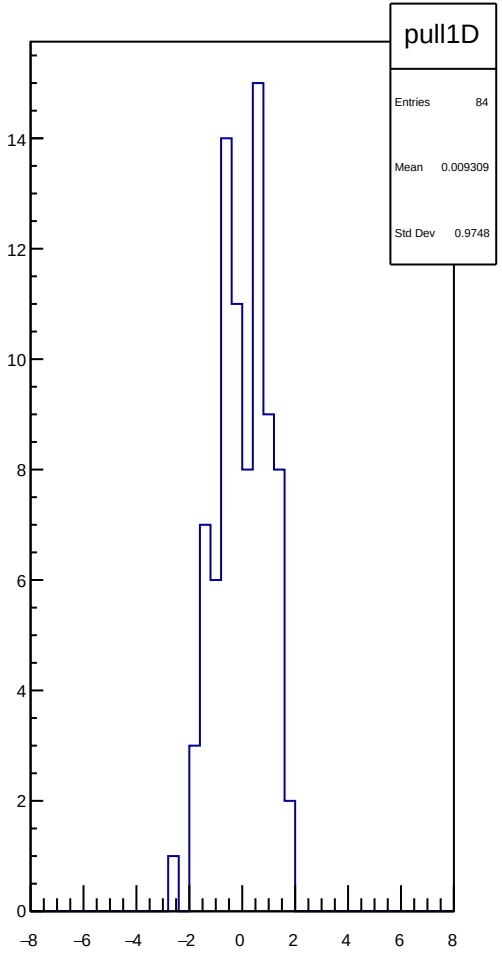

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.114e+06 / 83
p0 4.374e−12 ± 6.071e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

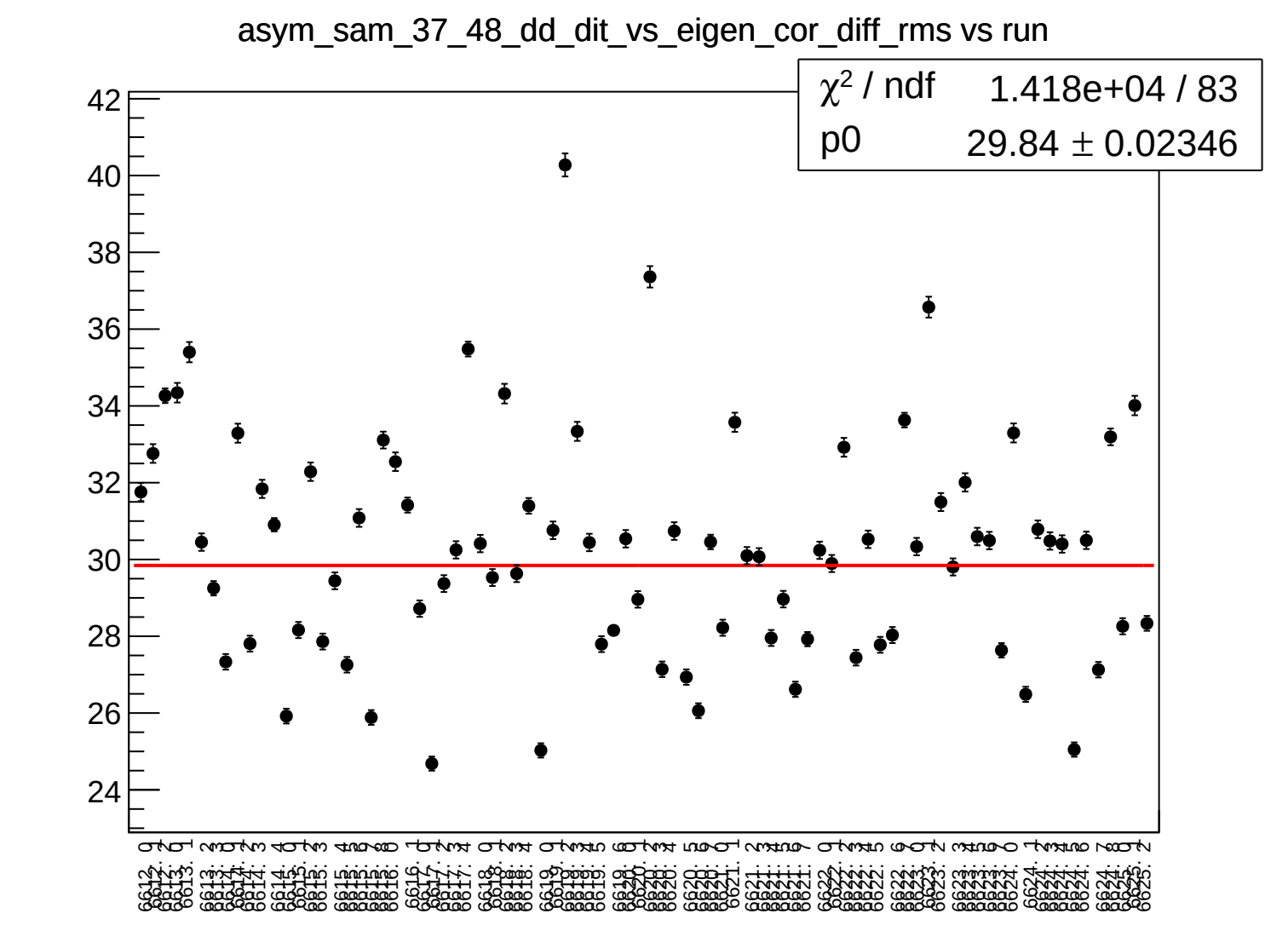

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.83 / 83
p0 0.05755 ± 0.03318
pull
Entries 84
Mean −158.6
Std Dev 0

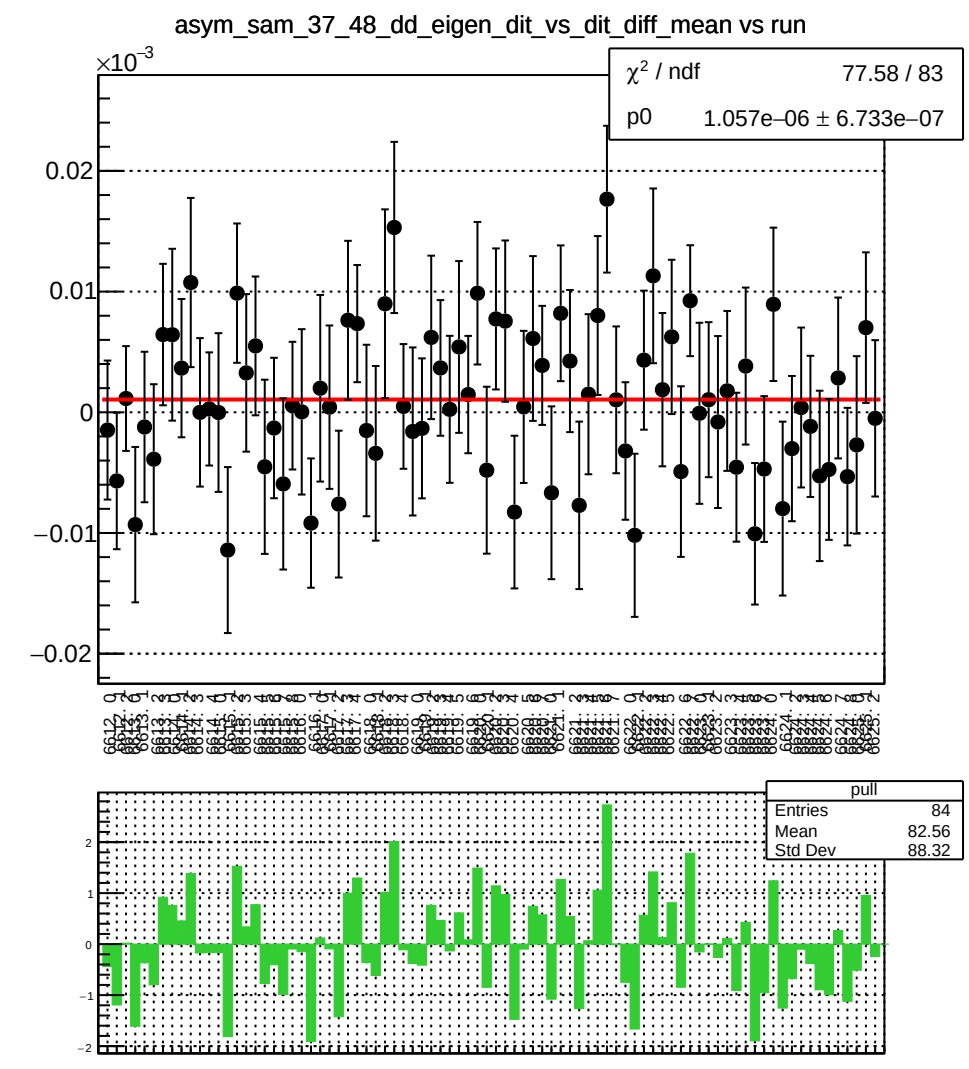

pull1D
Entries 84
Mean 0.009309
Std Dev 0.9748

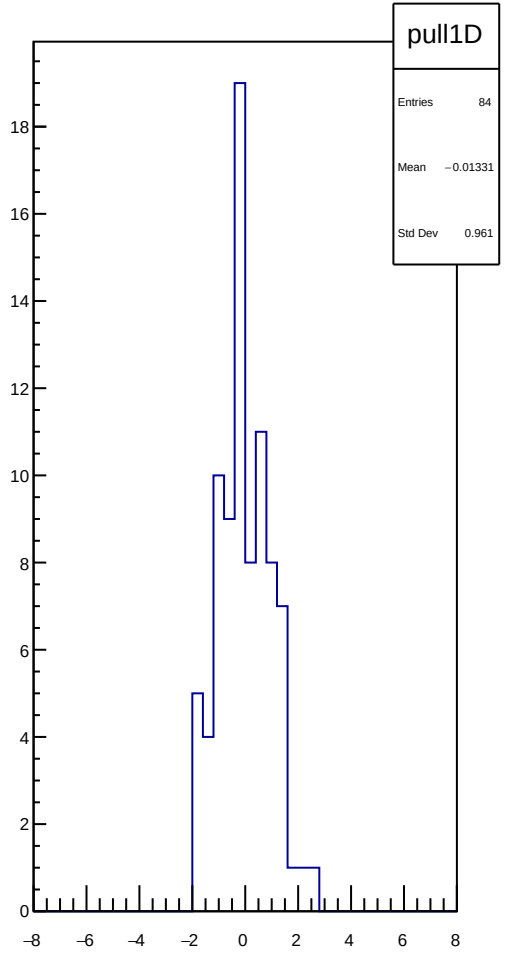

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.418e+04 / 83
p0 29.84 ± 0.02346
42
40
38
36
34
32
30
28
26
24

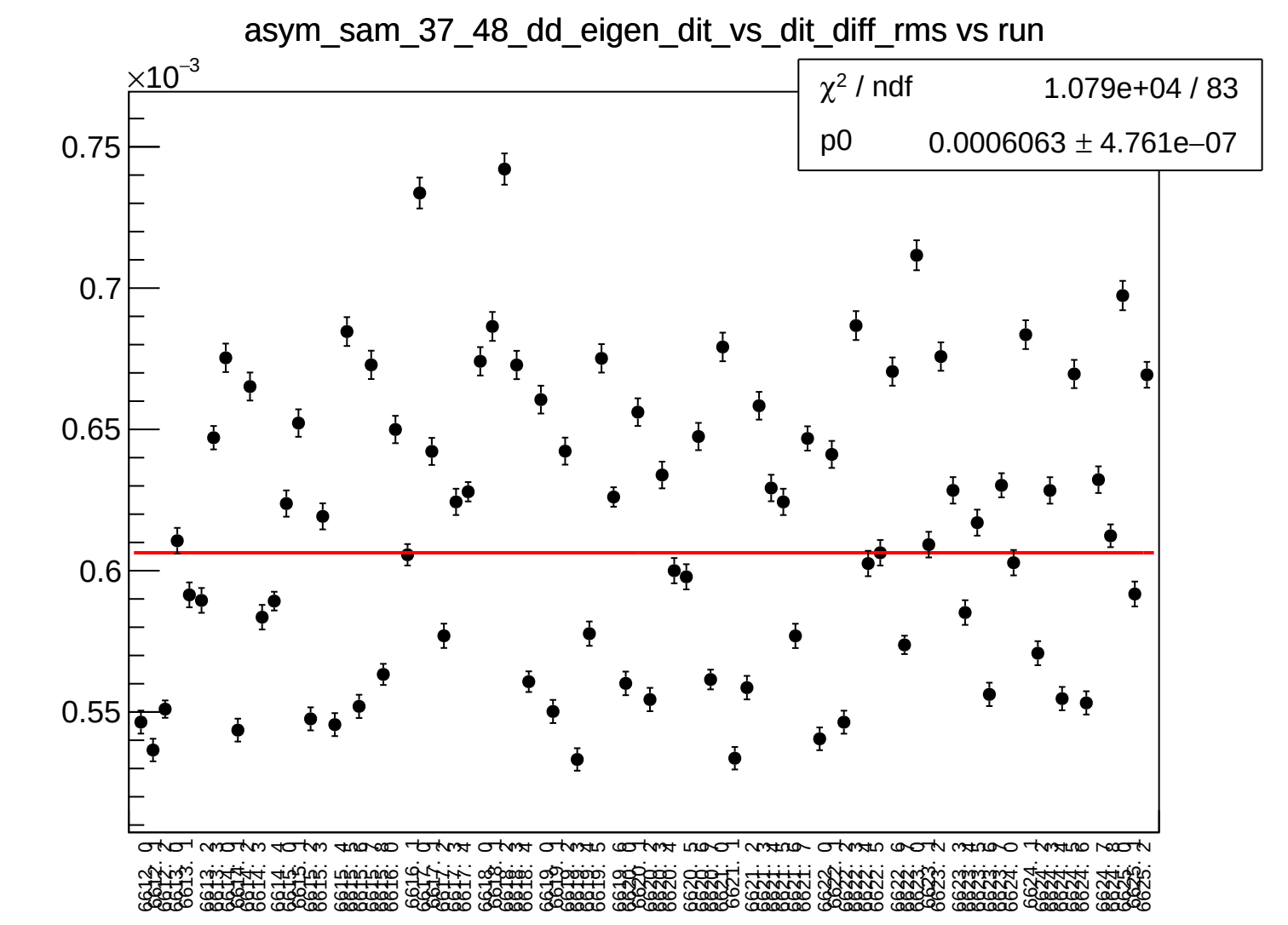

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.83 / 83
p0 0.05755 ± 0.03318
pull
Entries 84
Mean −158.6
Std Dev 0

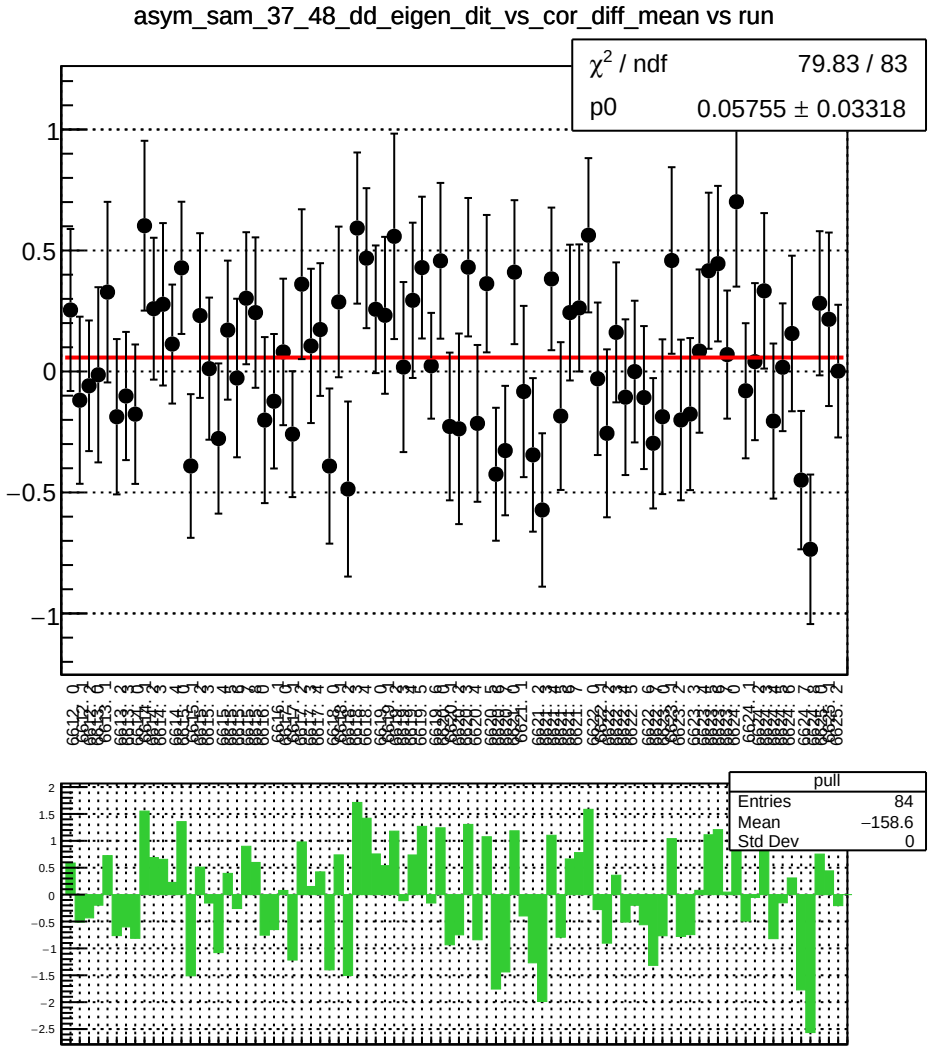

pull1D
Entries 84
Mean 0.009309
Std Dev 0.9748

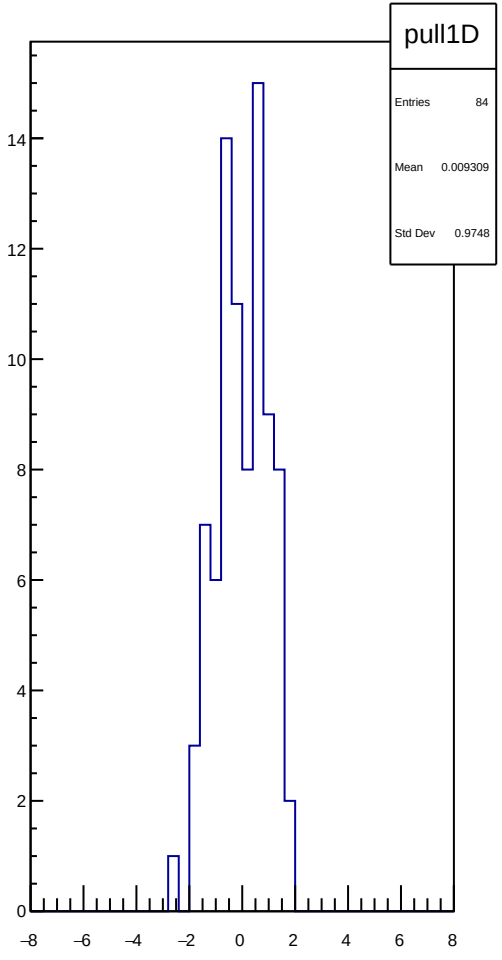

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.418e+04 / 83
p0 29.84 ± 0.02346
42
40
38
36
34
32
30
28
26
24

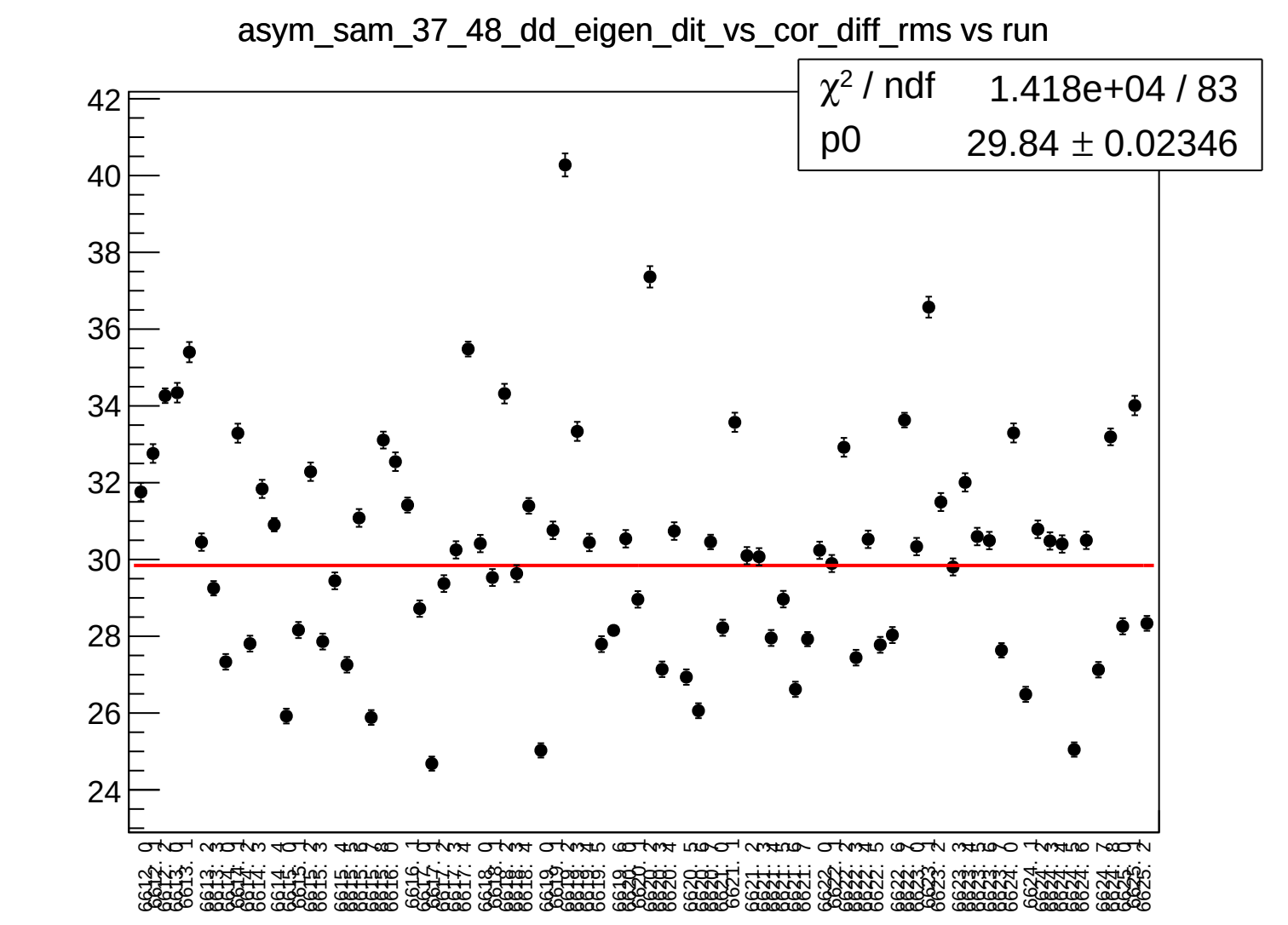

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.58 / 83
p0 1.057e−06 ± 6.733e−07
0.02
0.01
0
−0.01
−0.02
pull
Entries 84
Mean 82.56
Std Dev 88.32
2
1
0
−1
−2

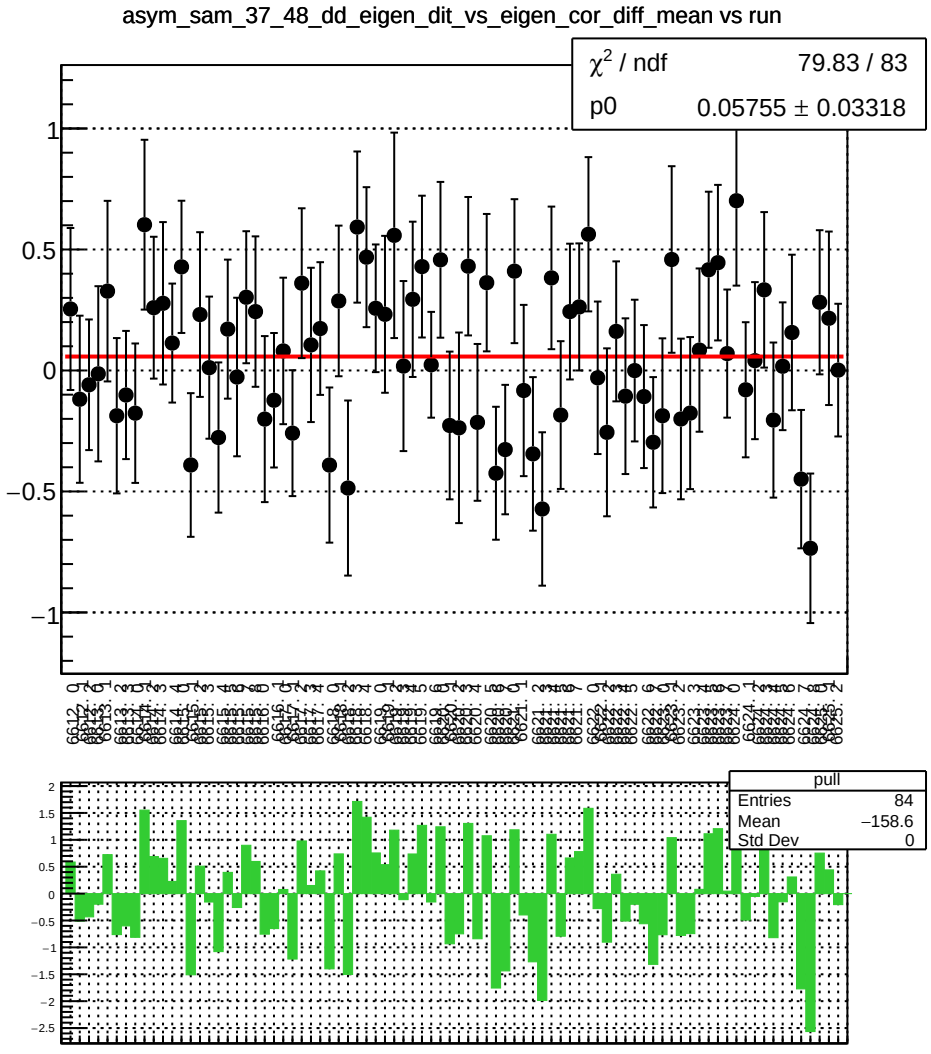

pull1D
Entries 84
Mean −0.01331
Std Dev 0.961
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

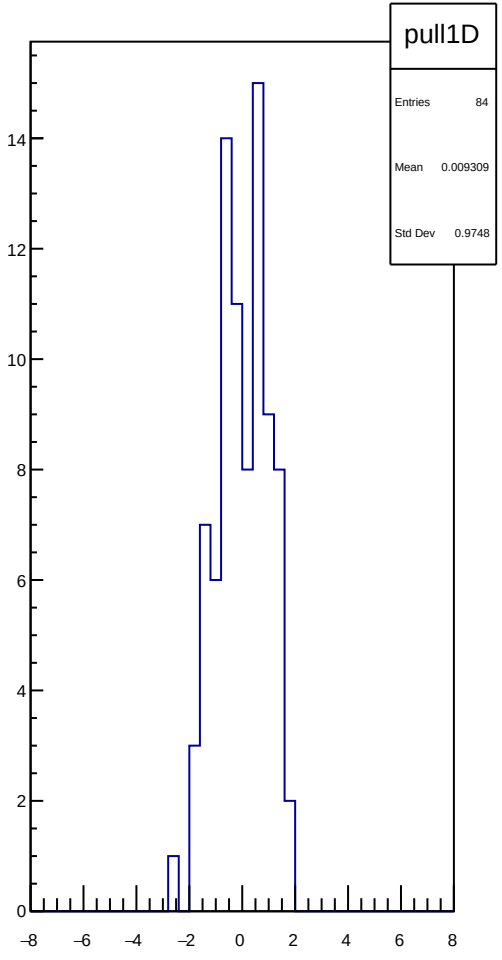

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1.079e+04 / 83
p0 0.0006063 ± 4.761e−07
0.75
0.7
0.65
0.6
0.55

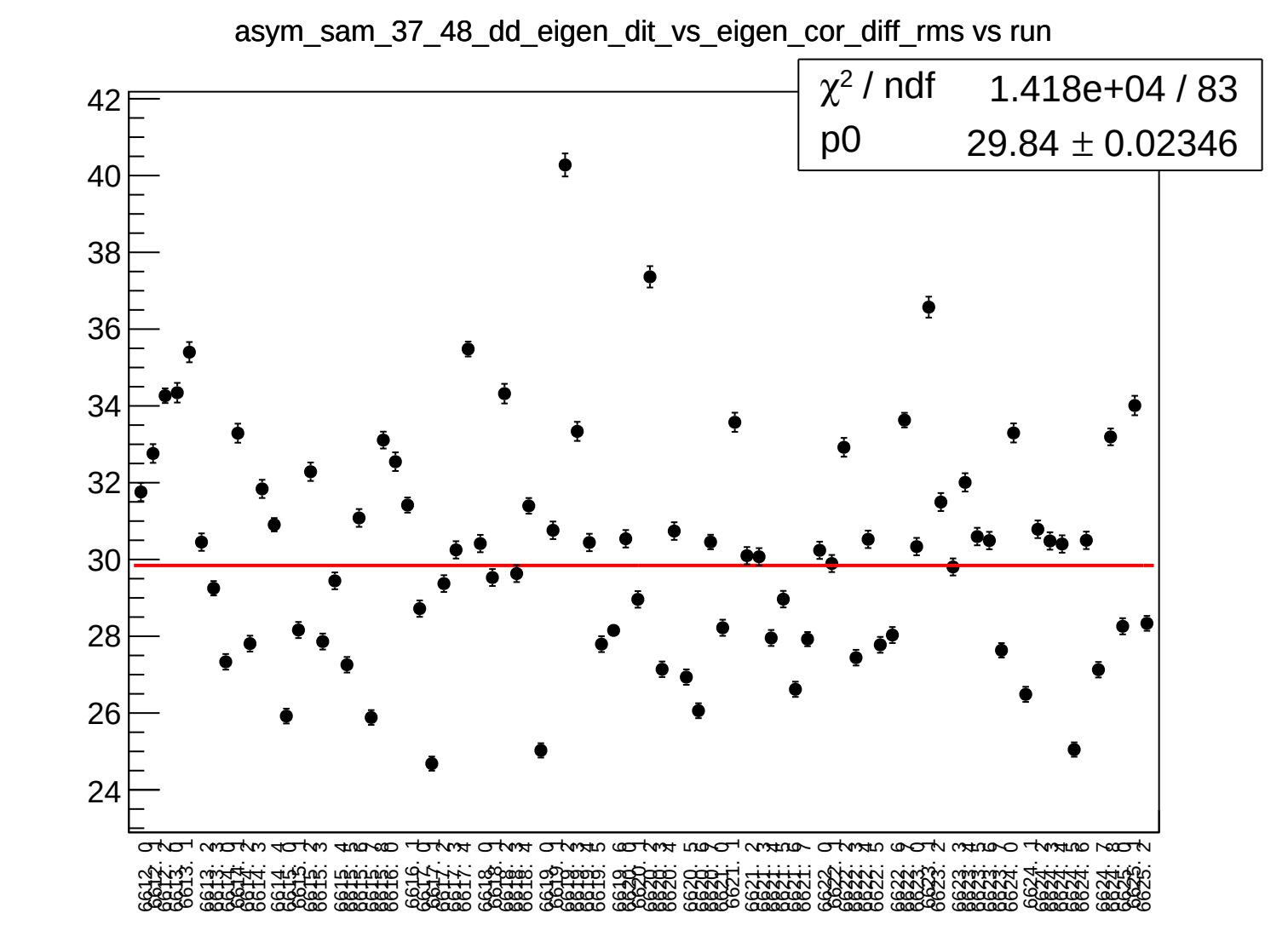

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.83 / 83
p0 0.05755 ± 0.03318
pull
Entries 84
Mean −158.6
Std Dev 0

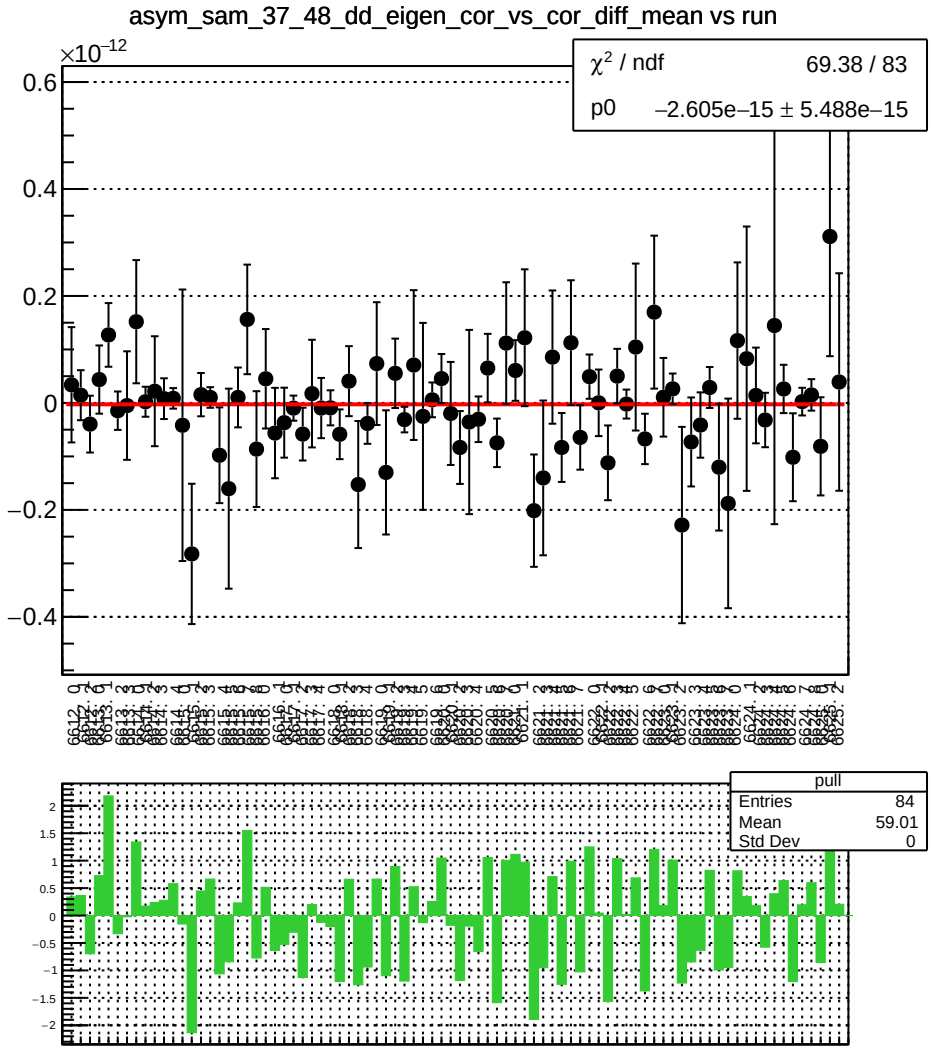

pull1D
Entries 84
Mean 0.009309
Std Dev 0.9748

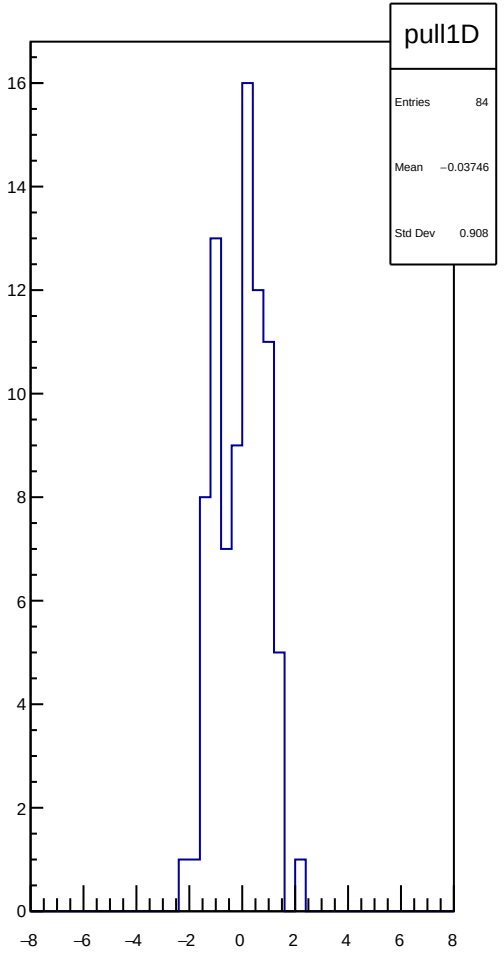

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.418e+04 / 83
p0 29.84 ± 0.02346
42
40
38
36
34
32
30
28
26
24

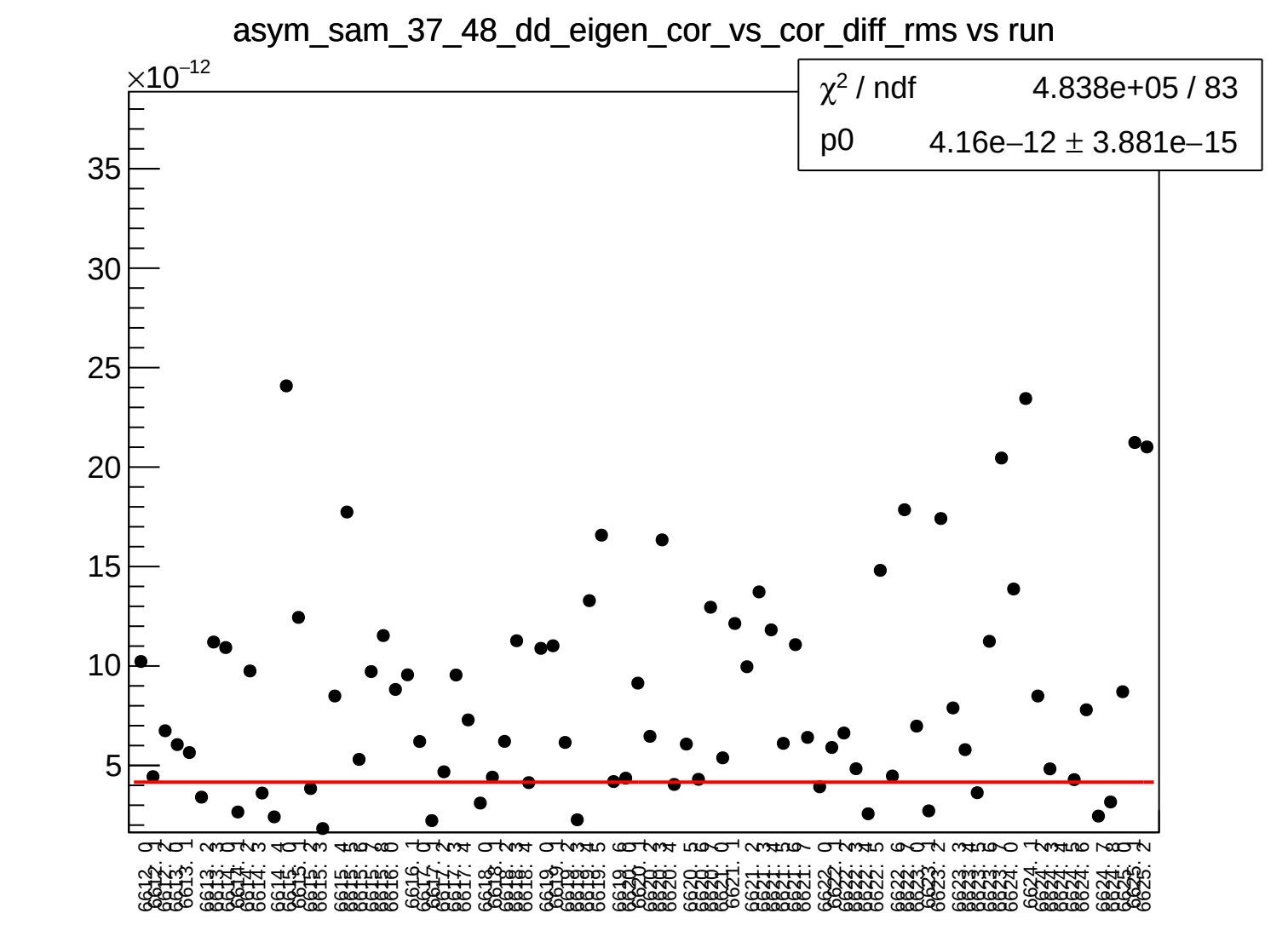

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.83 / 83
p0 0.05755 ± 0.03318
pull
Entries 84
Mean −158.6
Std Dev 0

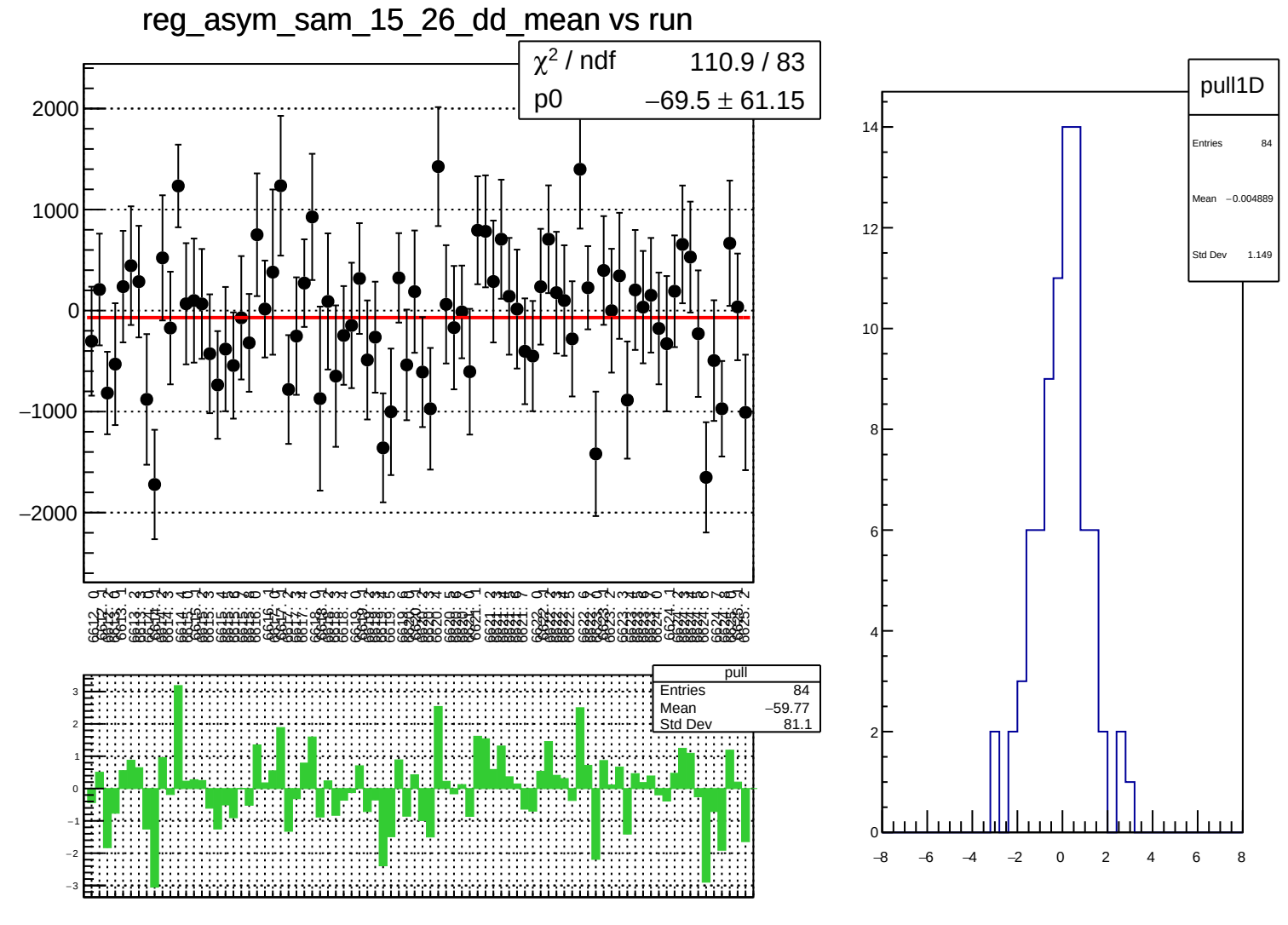

pull1D
Entries 84
Mean 0.009309
Std Dev 0.9748

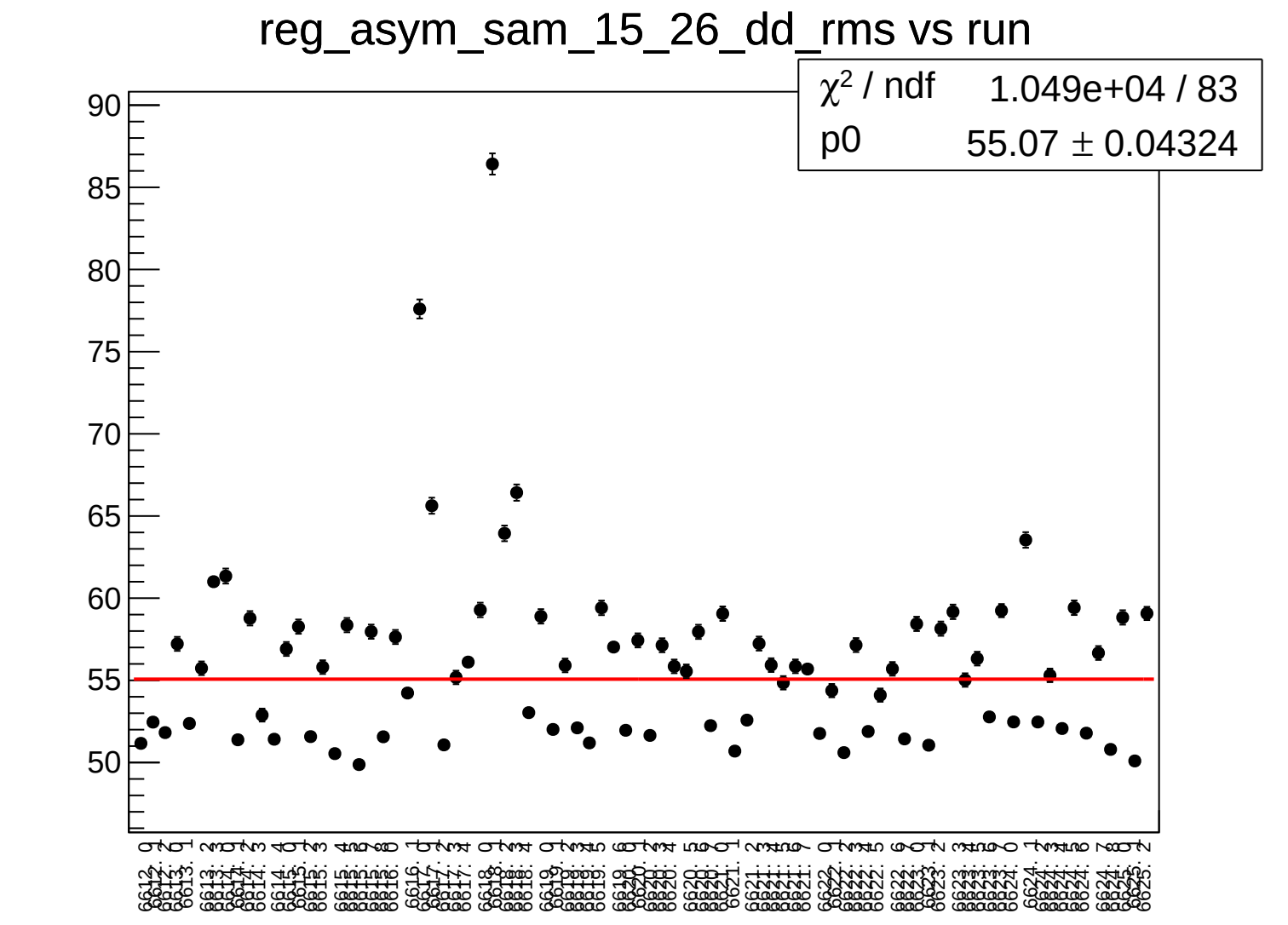

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.418e+04 / 83
p0 29.84 ± 0.02346
42
40
38
36
34
32
30
28
26
24

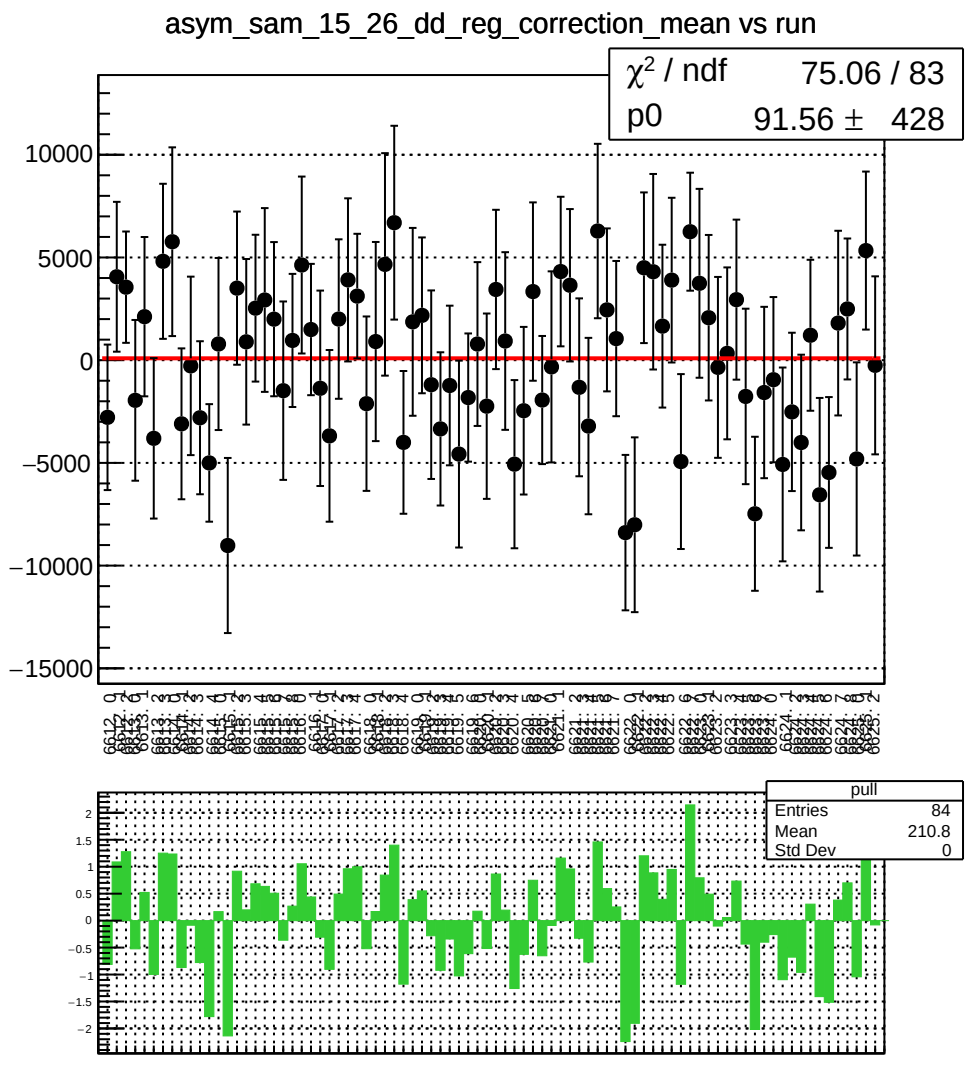

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.38 / 83
p0 −2.605e−15 ± 5.488e−15
pull
Entries 84
Mean 59.01
Std Dev 0

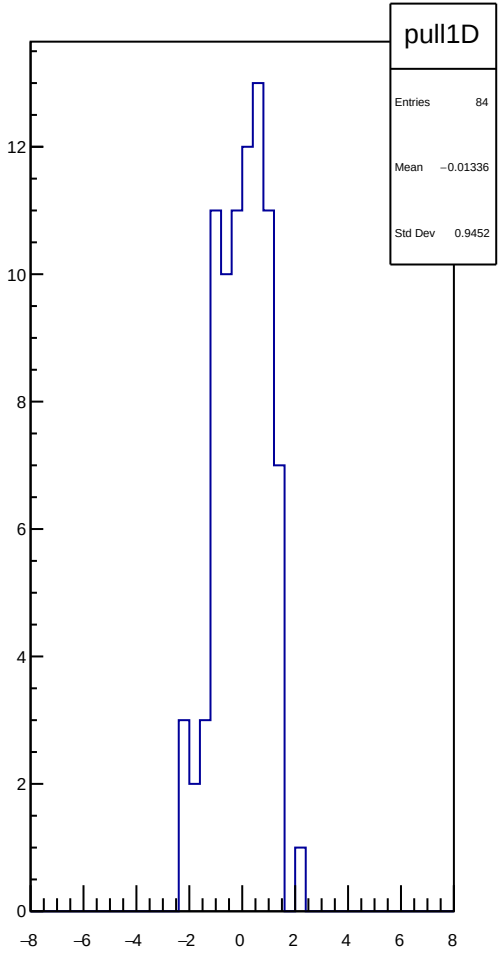

pull1D
Entries 84
Mean −0.03746
Std Dev 0.908

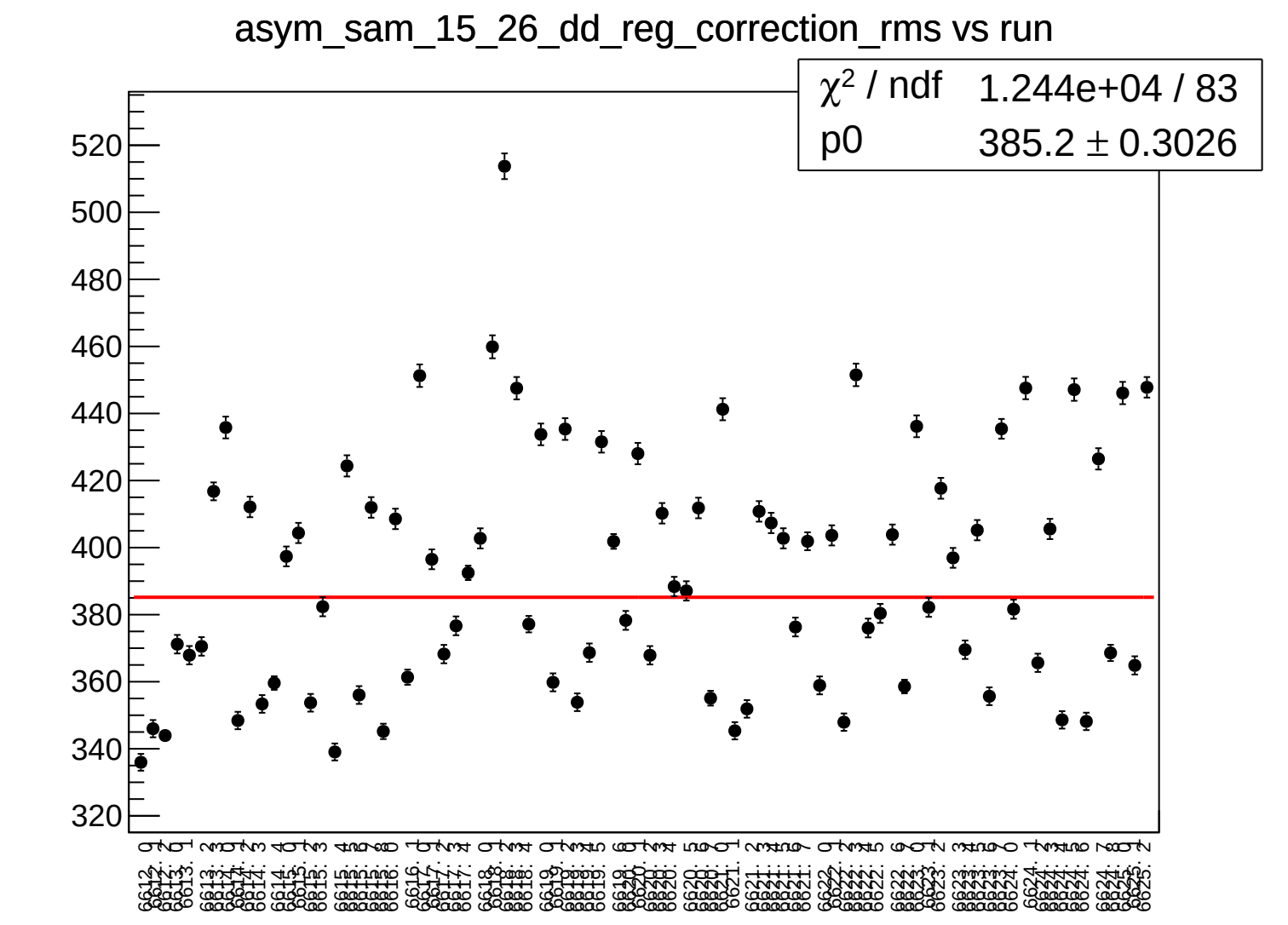

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.838e+05 / 83
p0 4.16e−12 ± 3.881e−15
35
30
25
20
15
10
5

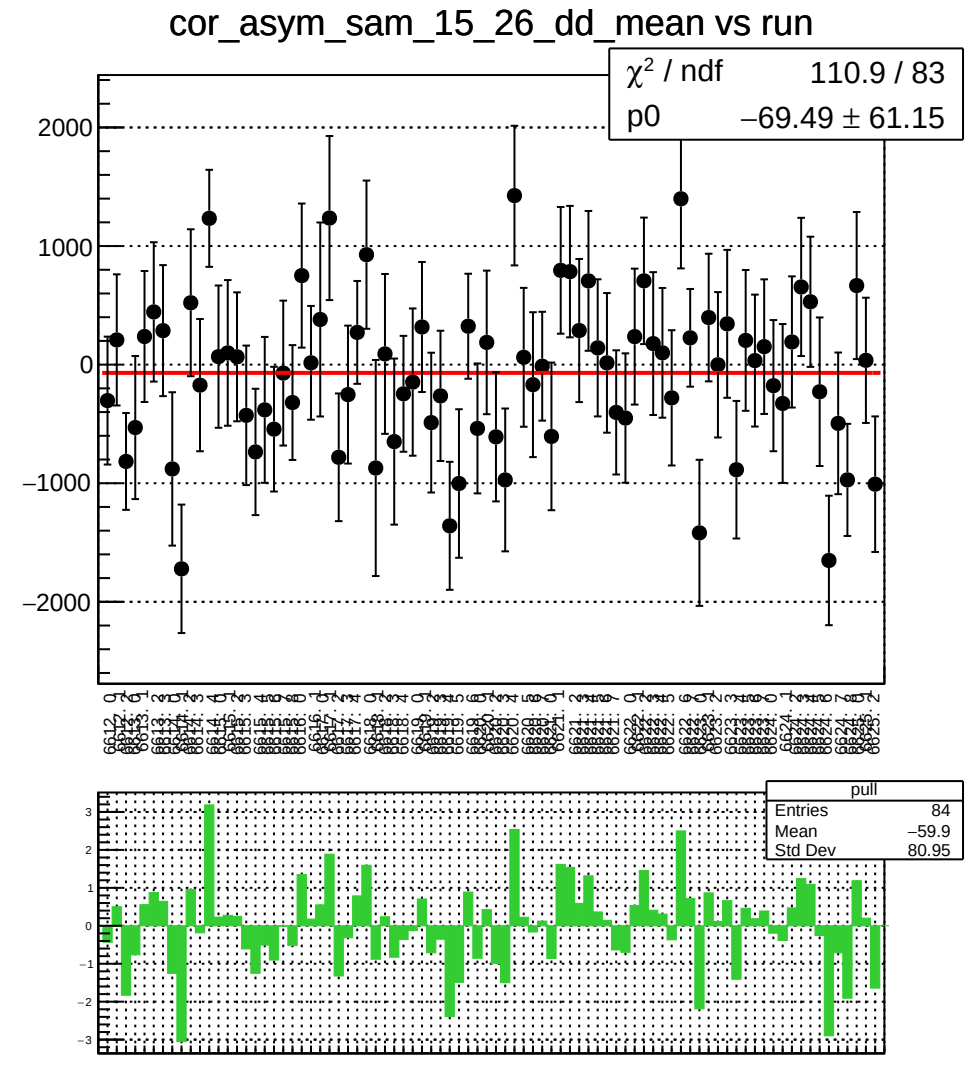

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 110.9 / 83
p0 −69.5 ± 61.15
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −59.77
Std Dev 81.1
pull1D
Entries 84
Mean −0.004889
Std Dev 1.149

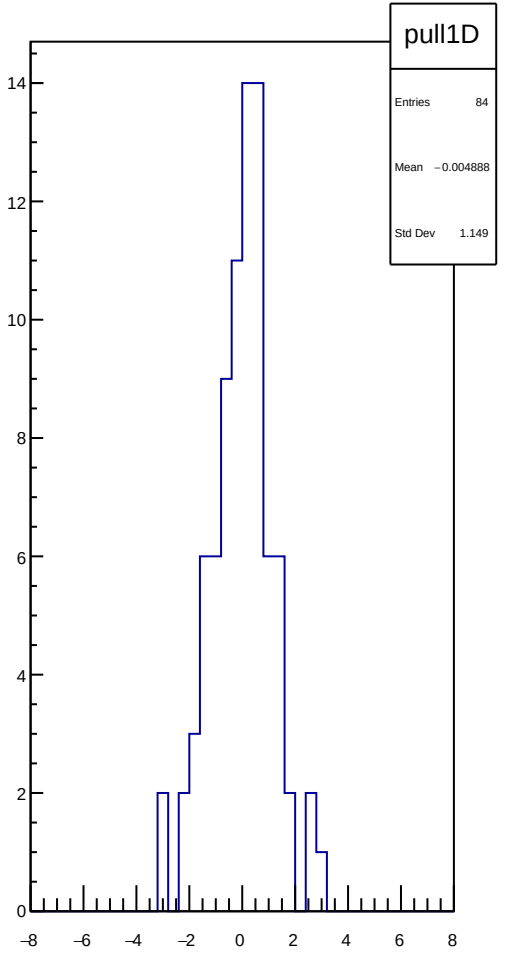

reg_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 1.049e+04 / 83
p0 55.07 ± 0.04324
90
85
80
75
70
65
60
55
50

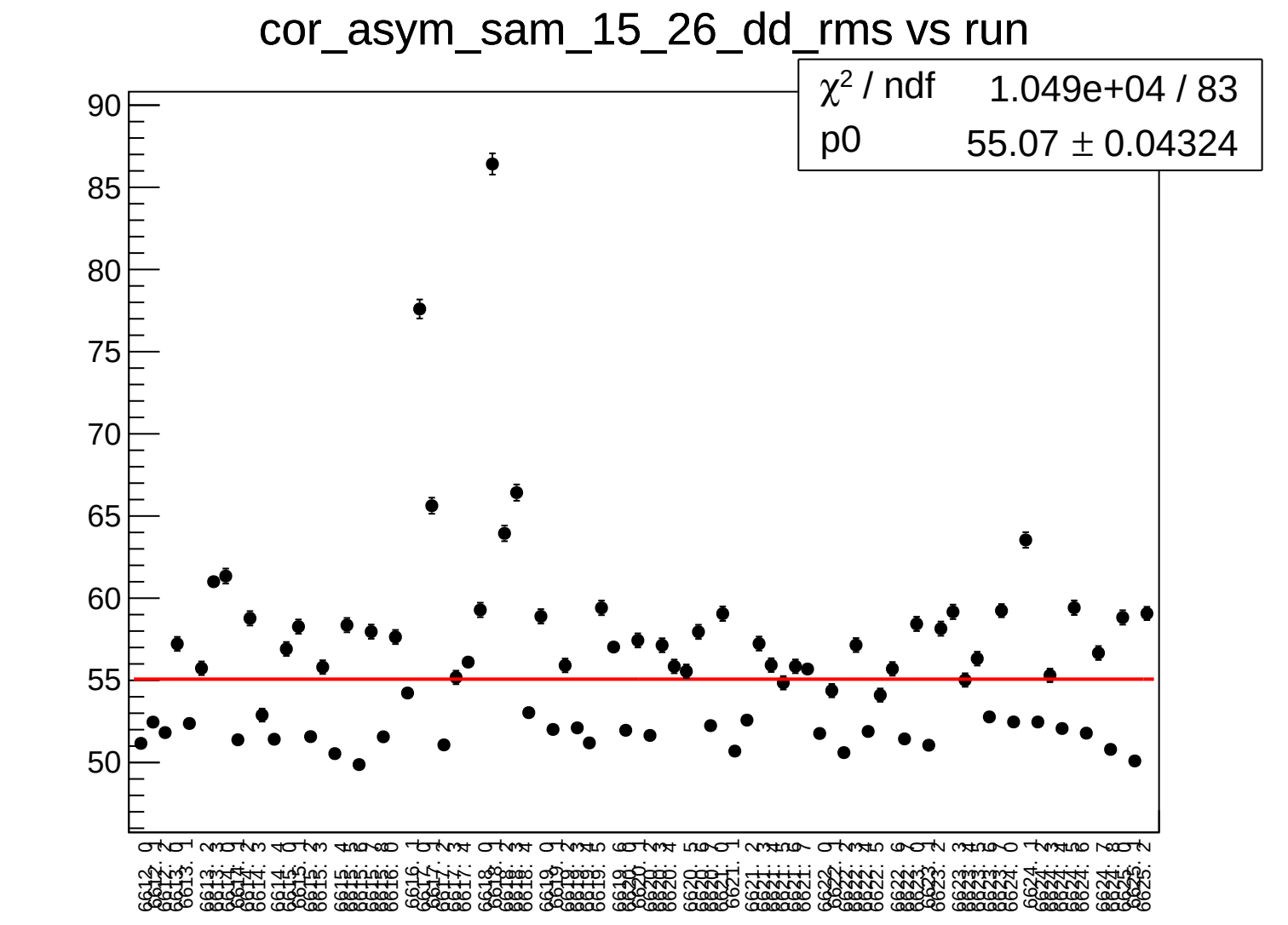

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 75.06 / 83
p0 91.56 ± 428
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 210.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

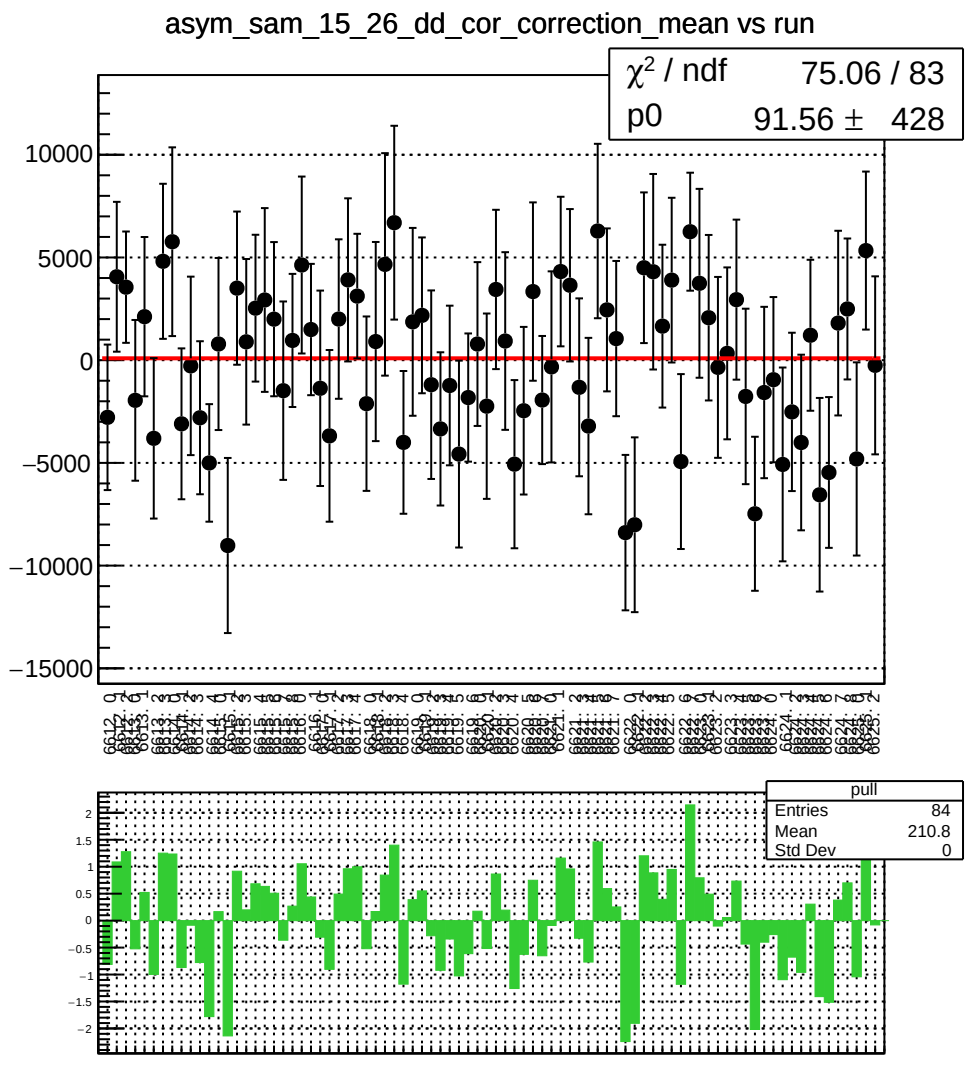

pull1D
Entries 84
Mean −0.01336
Std Dev 0.9452
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

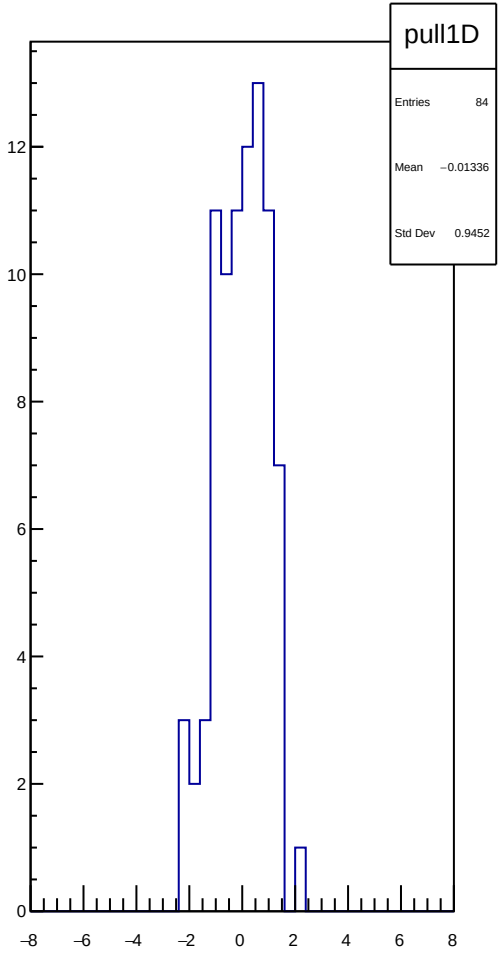

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 1.244e+04 / 83
p0 385.2 ± 0.3026
520
500
480
460
440
420
400
380
360
340
320

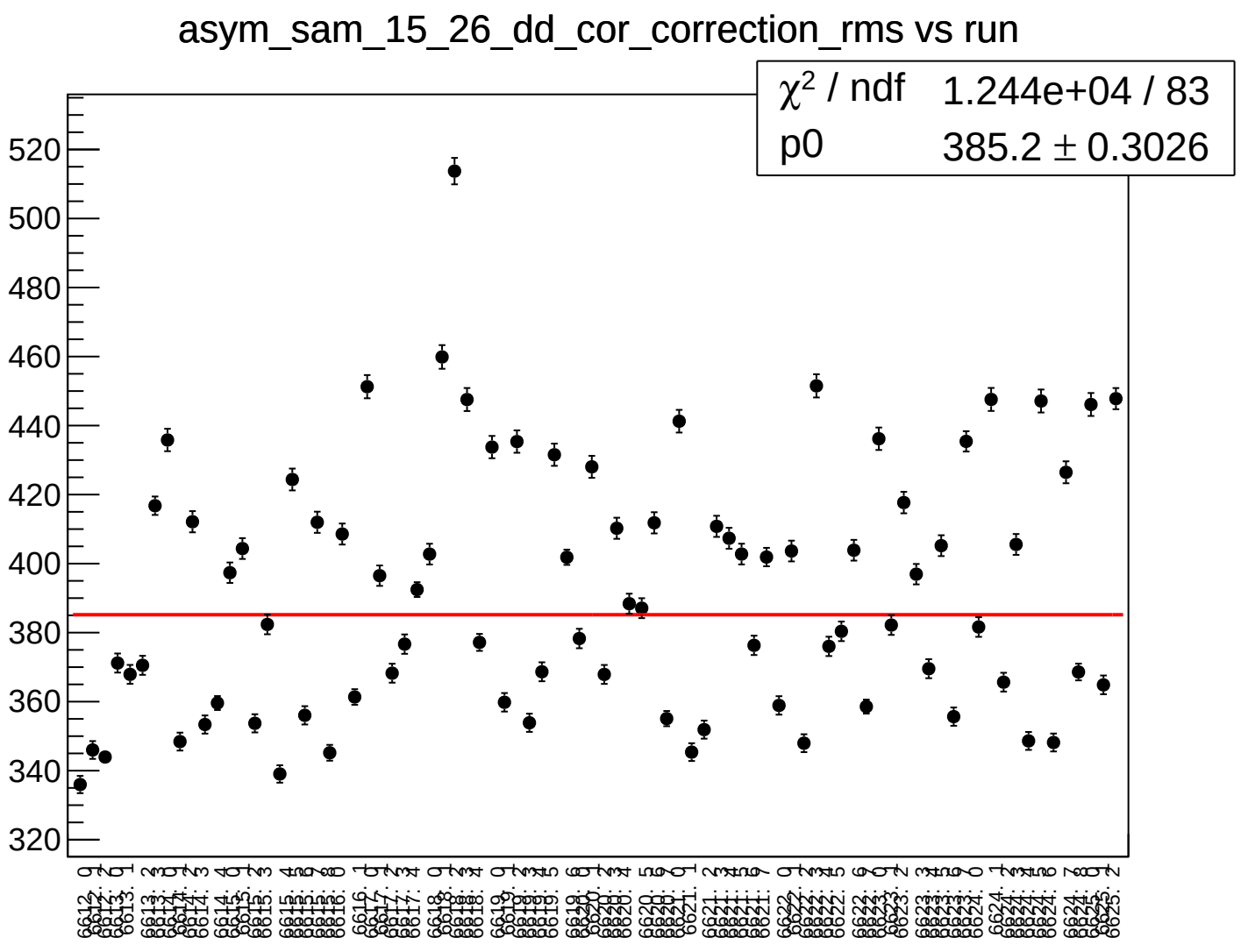

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 110.9 / 83
p0 −69.49 ± 61.15
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −59.9
Std Dev 80.95
3
2
1
0
−1
−2
−3

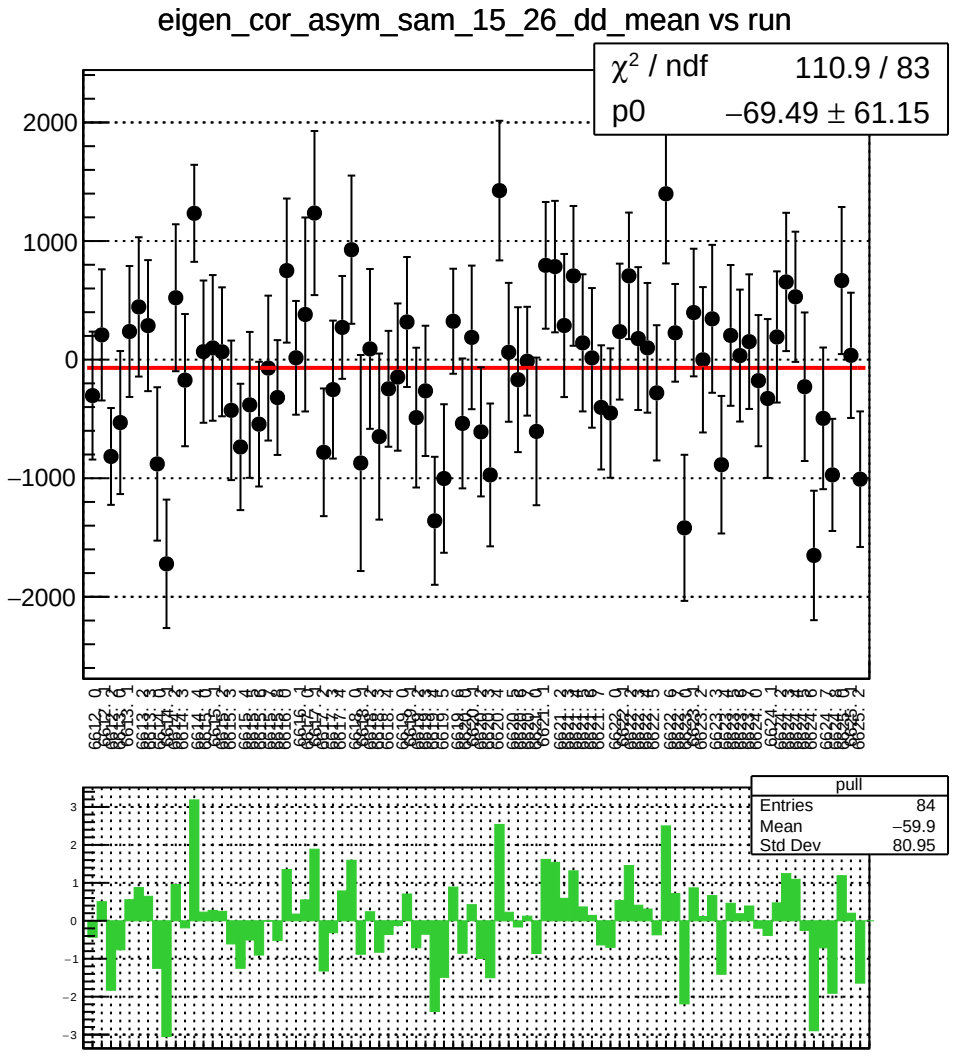

pull1D
Entries 84
Mean −0.004888
Std Dev 1.149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

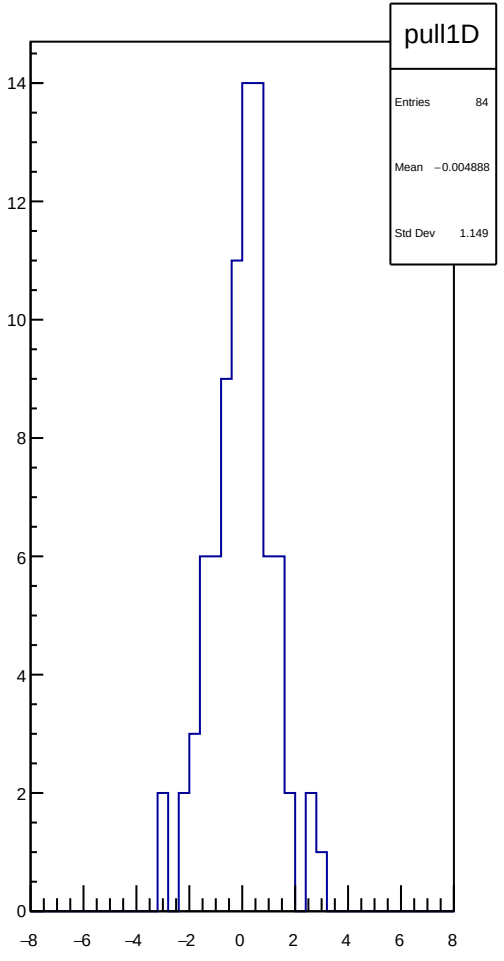

cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 1.049e+04 / 83
p0 55.07 ± 0.04324
90
85
80
75
70
65
60
55
50

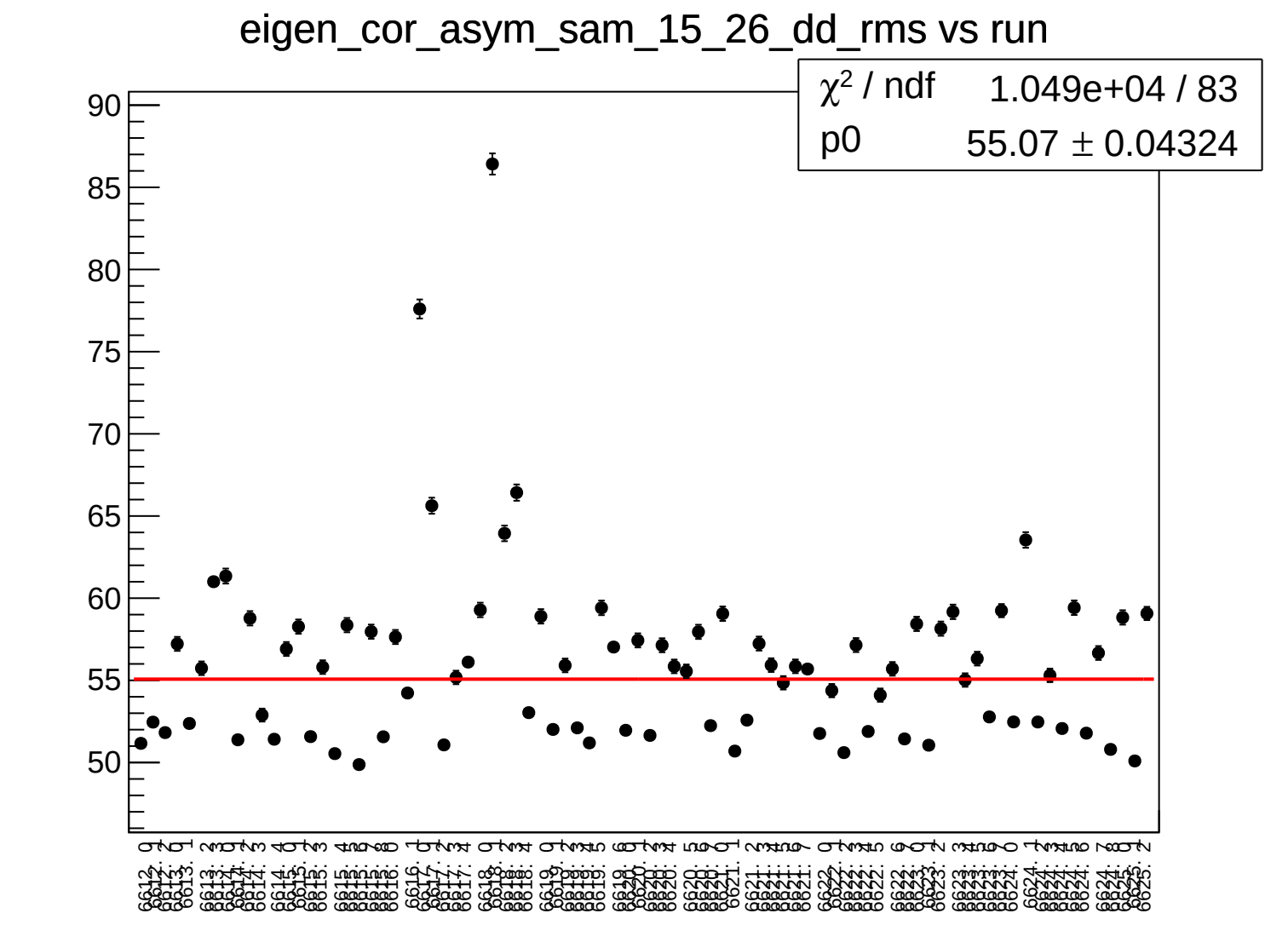

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 75.06 / 83
p0 91.56 ± 428
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 210.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

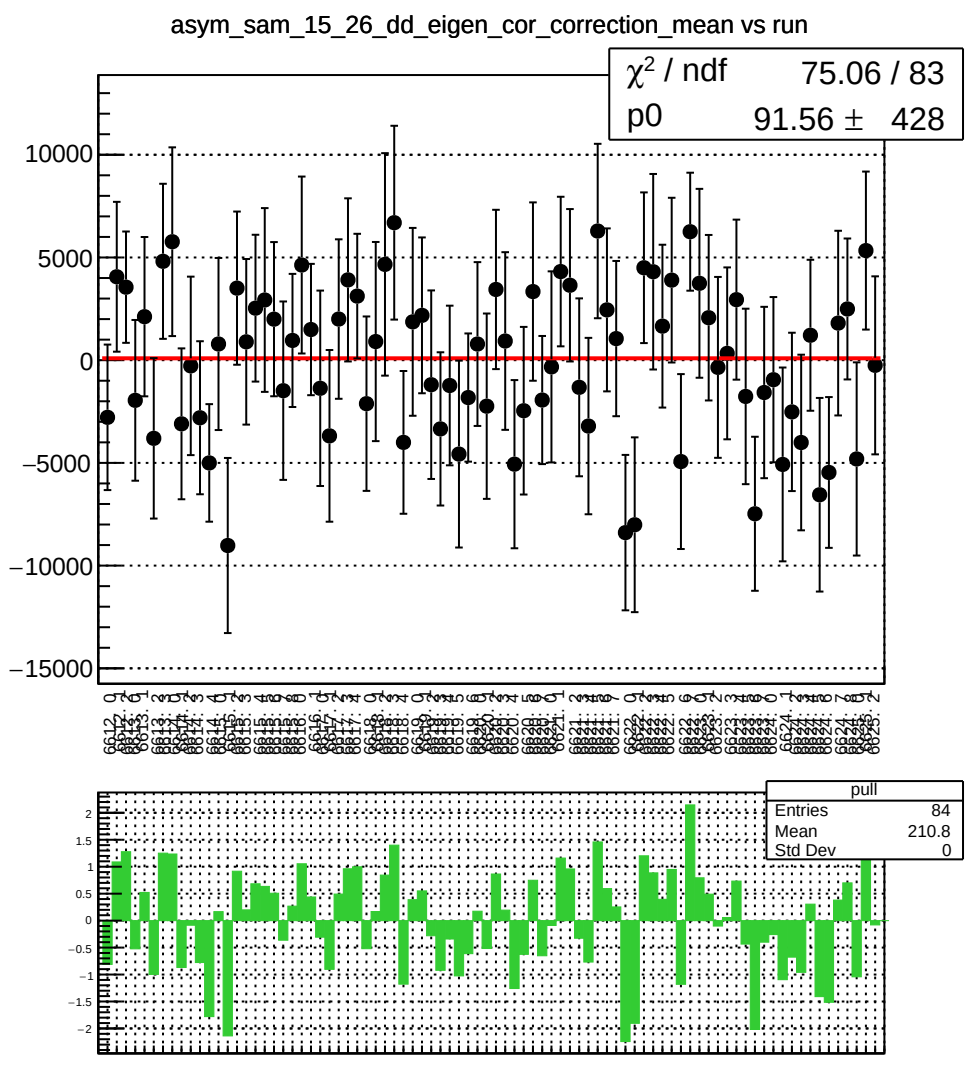

pull1D
Entries 84
Mean −0.01336
Std Dev 0.9452
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

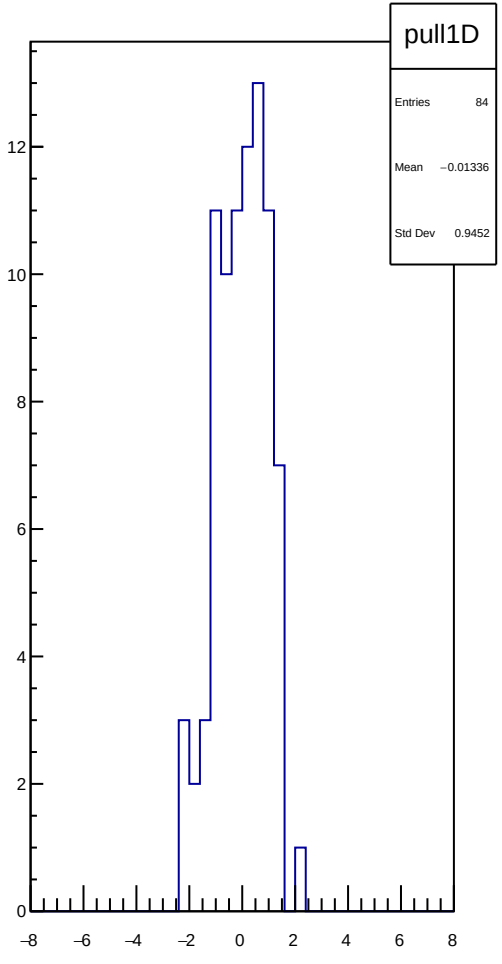

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 1.244e+04 / 83
p0 385.2 ± 0.3026
520
500
480
460
440
420
400
380
360
340
320

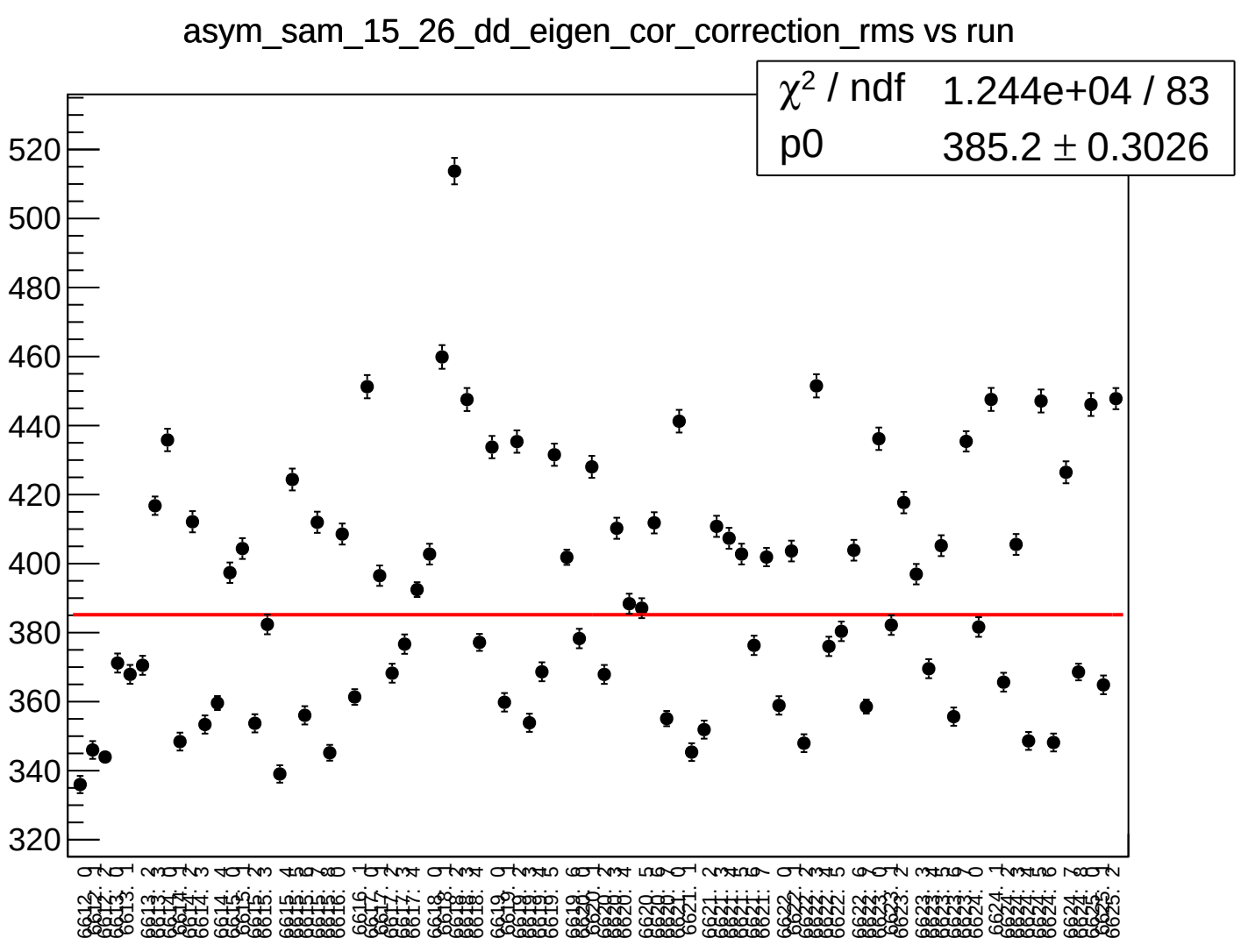

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 110.9 / 83
p0 −69.49 ± 61.15
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −59.9
Std Dev 80.95
3
2
1
0
−1
−2
−3

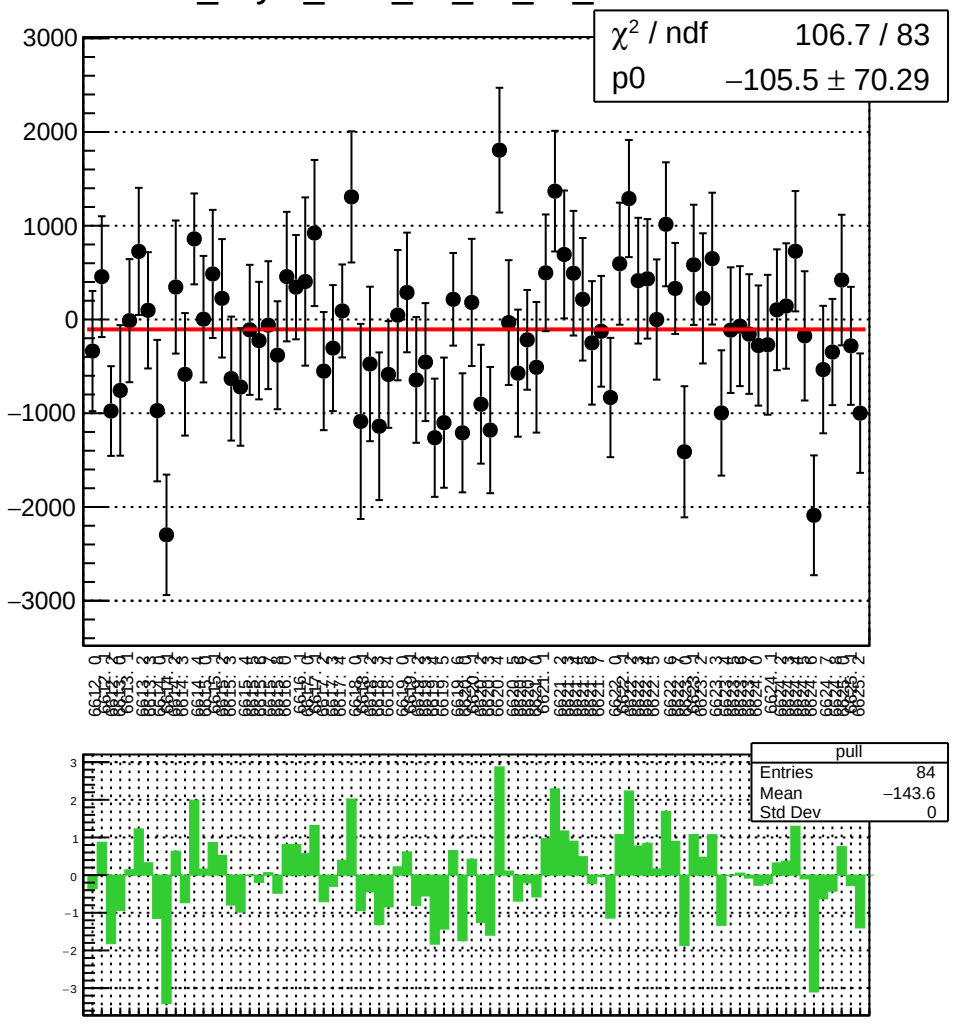

pull1D
Entries 84
Mean −0.004888
Std Dev 1.149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

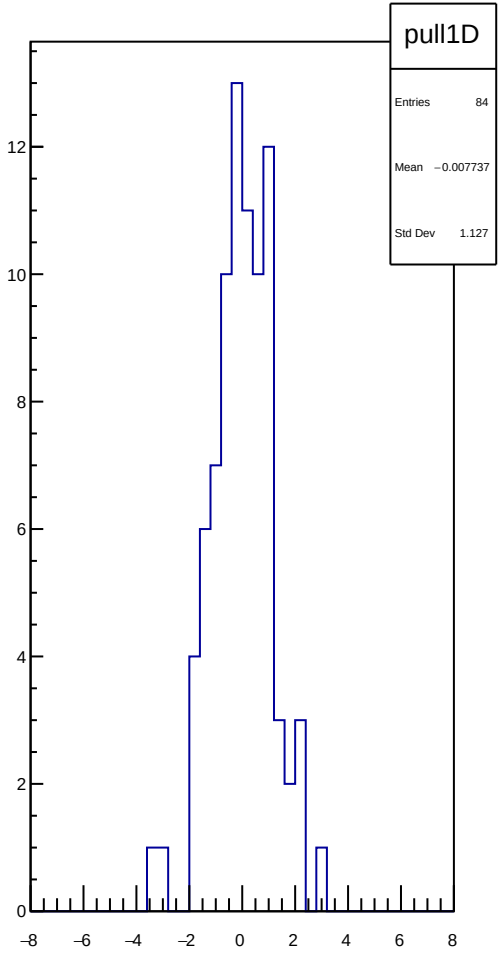

eigen_cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 1.049e+04 / 83
p0 55.07 ± 0.04324
90
85
80
75
70
65
60
55
50

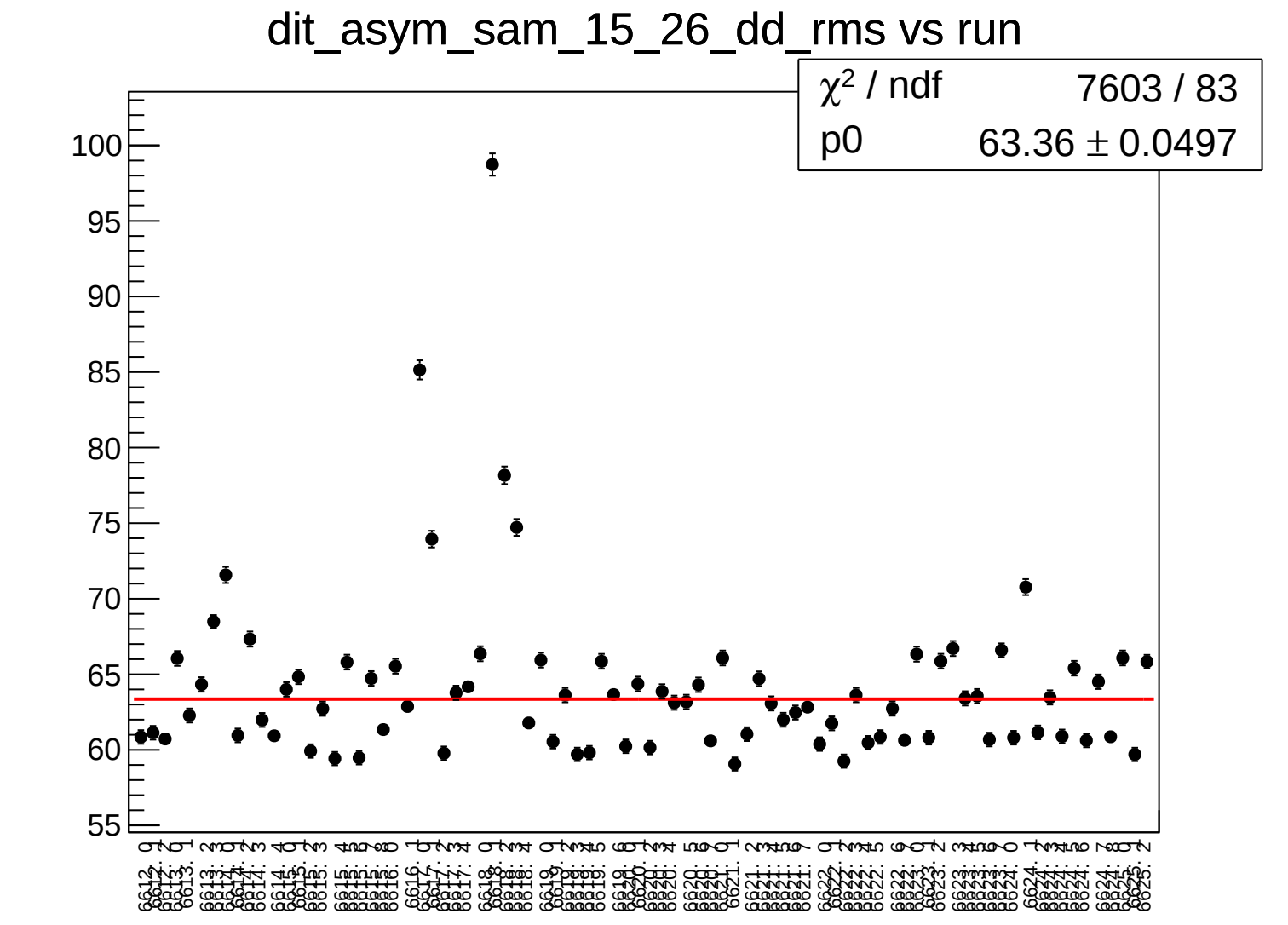

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.06 / 83
p0 91.56 ± 428
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 210.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

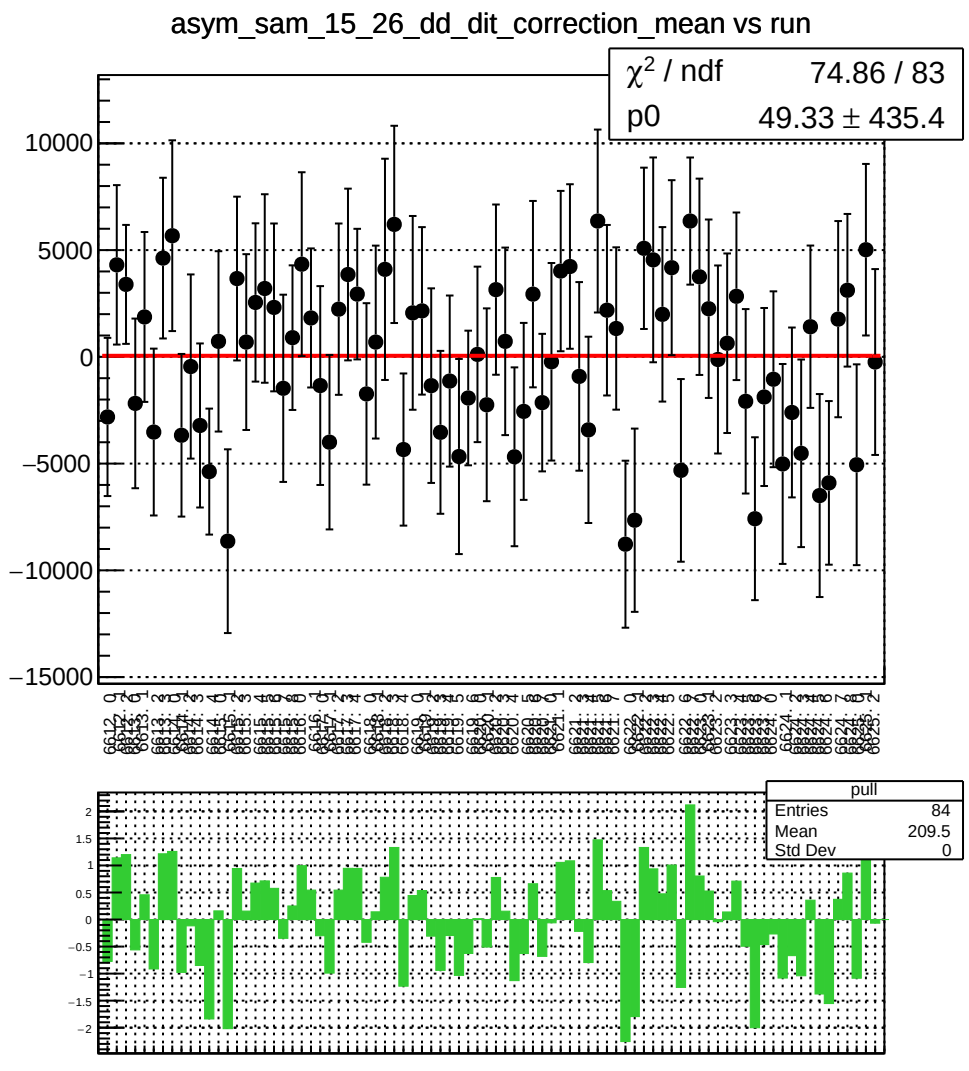

pull1D
Entries 84
Mean −0.01336
Std Dev 0.9452
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

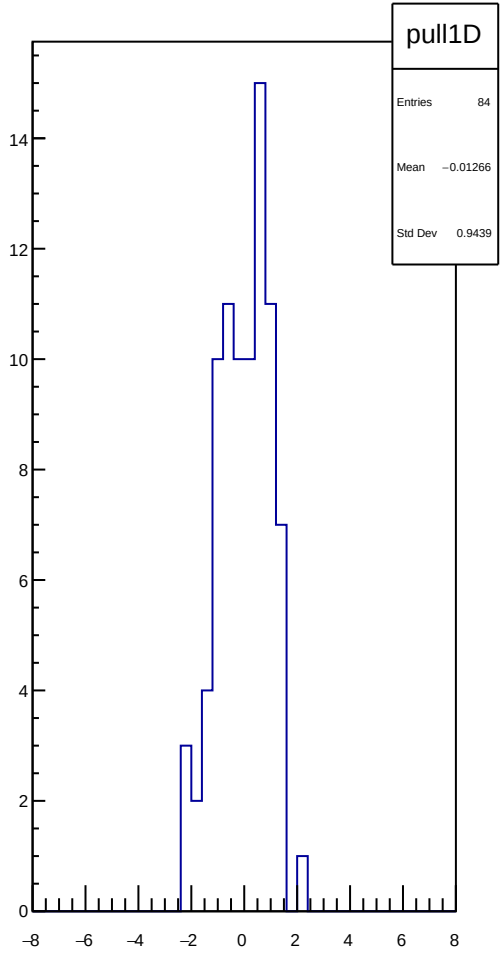

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.244e+04 / 83
p0 385.2 ± 0.3026
520
500
480
460
440
420
400
380
360
340
320

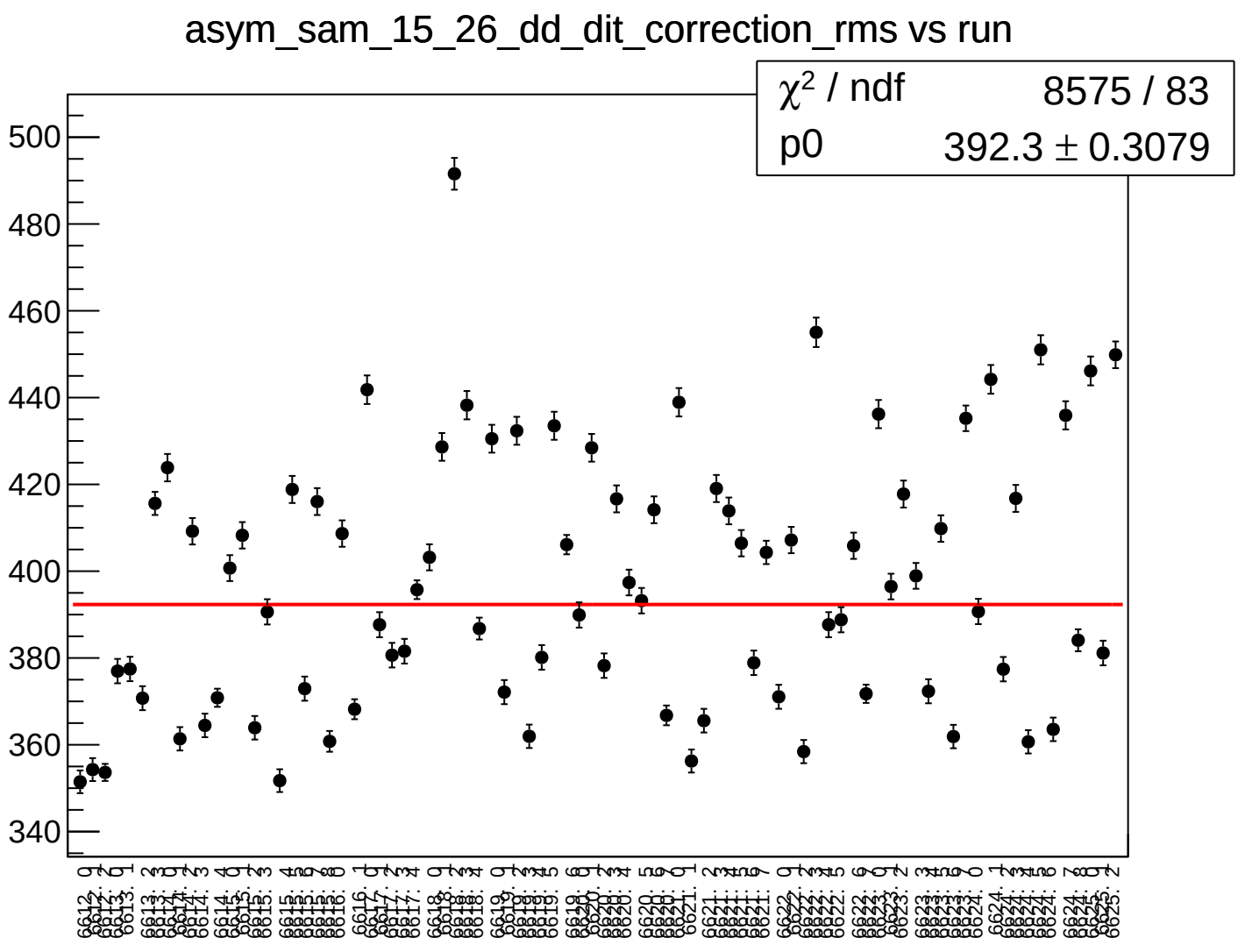

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 106.7 / 83
p0 −105.5 ± 70.29
pull
Entries 84
Mean −143.6
Std Dev 0

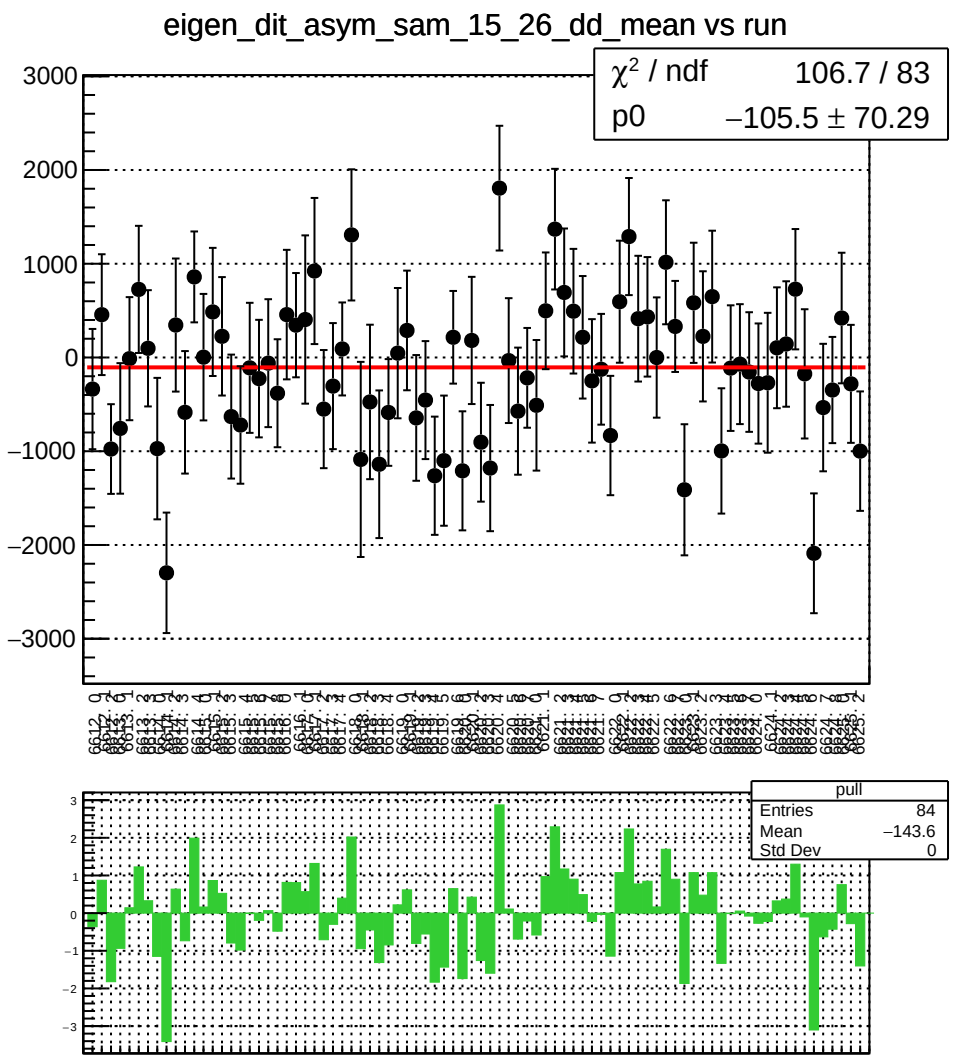

pull1D
Entries 84
Mean −0.007737
Std Dev 1.127

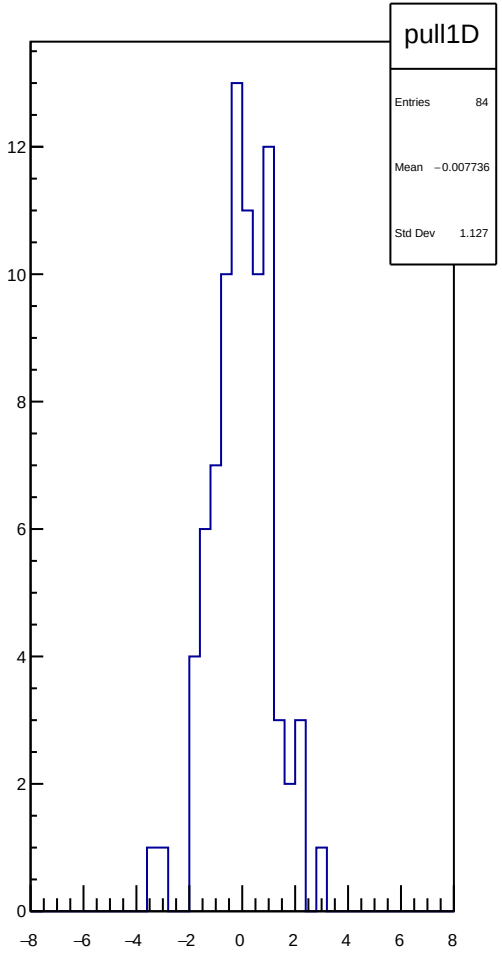

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 7603 / 83
p0 63.36 ± 0.0497
100
95
90
85
80
75
70
65
60
55

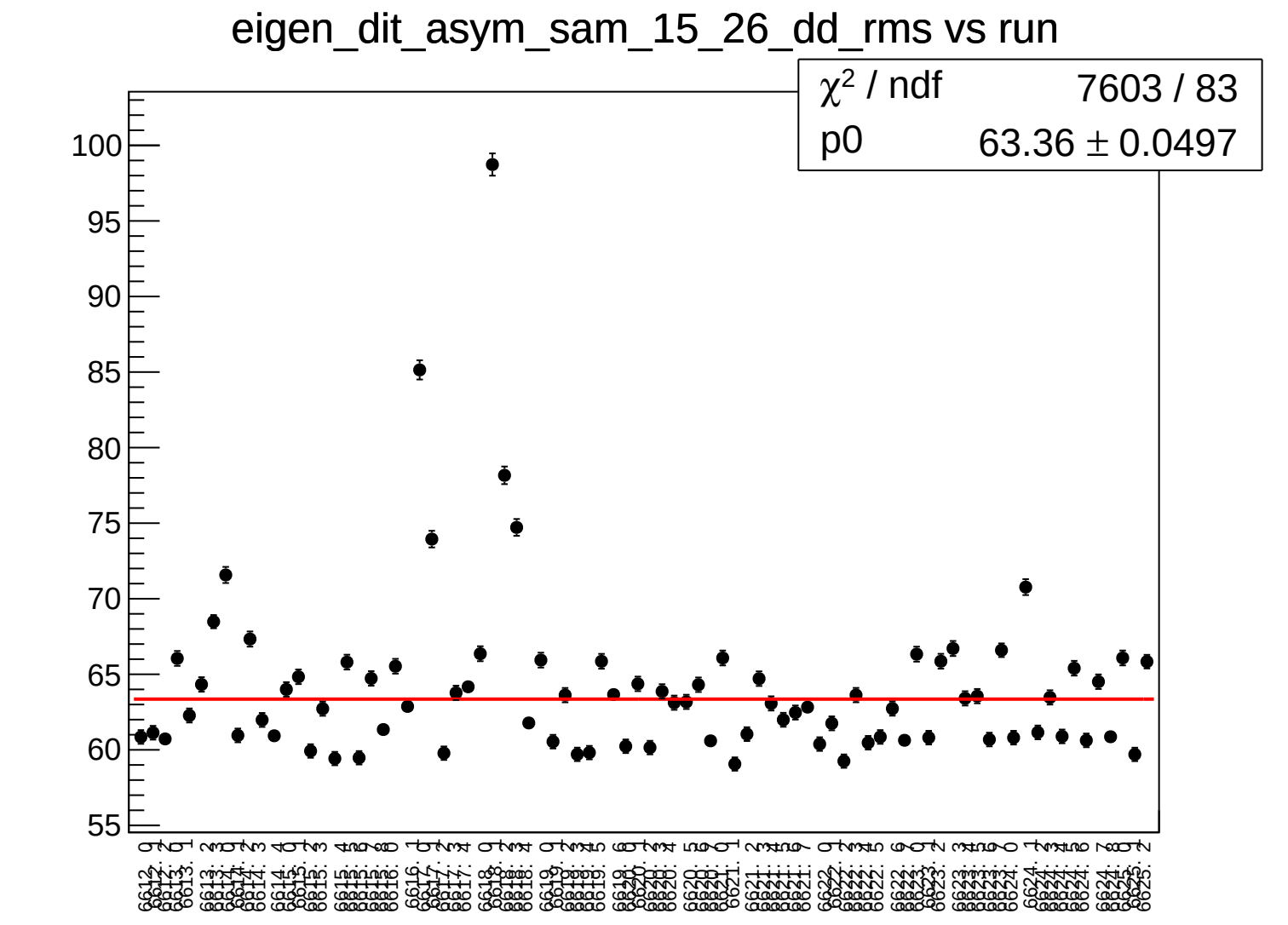

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 74.86 / 83
p0 49.33 ± 435.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 209.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

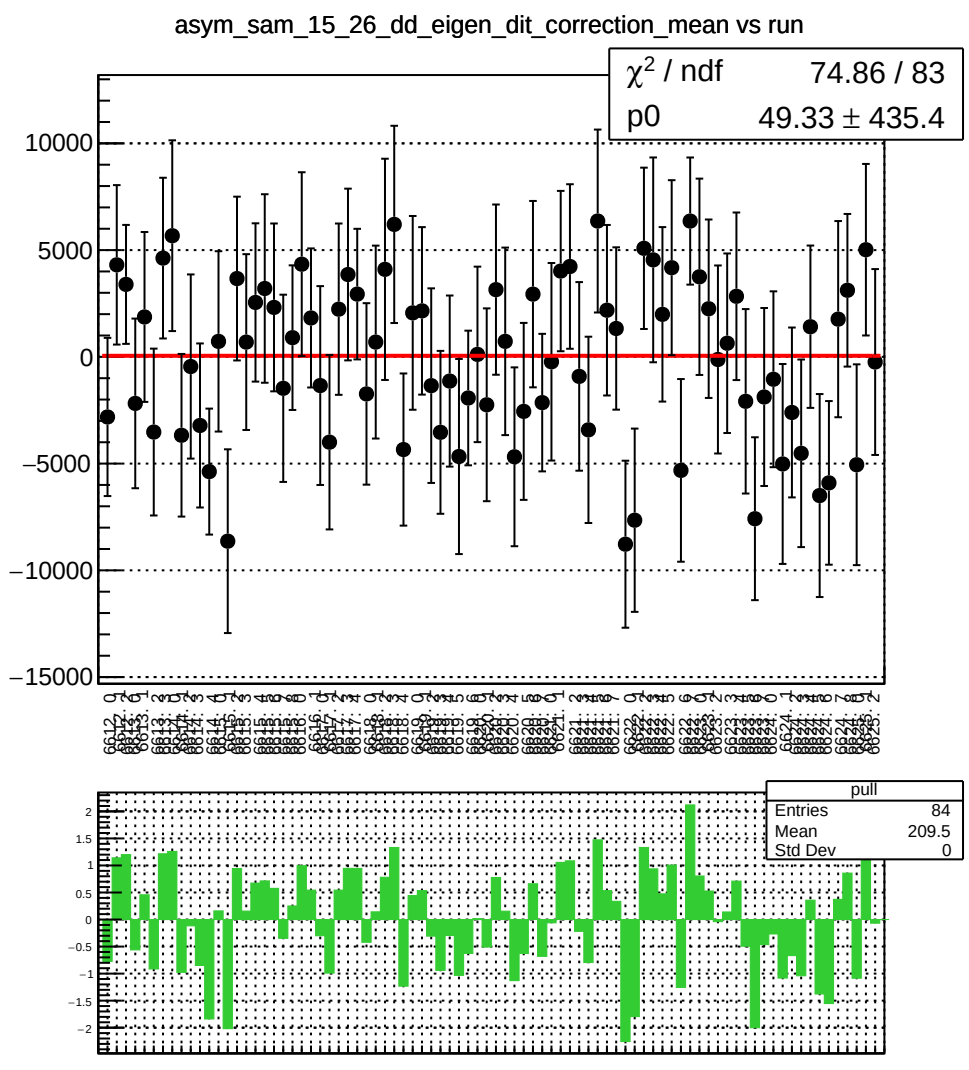

pull1D
Entries 84
Mean −0.01266
Std Dev 0.9439
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

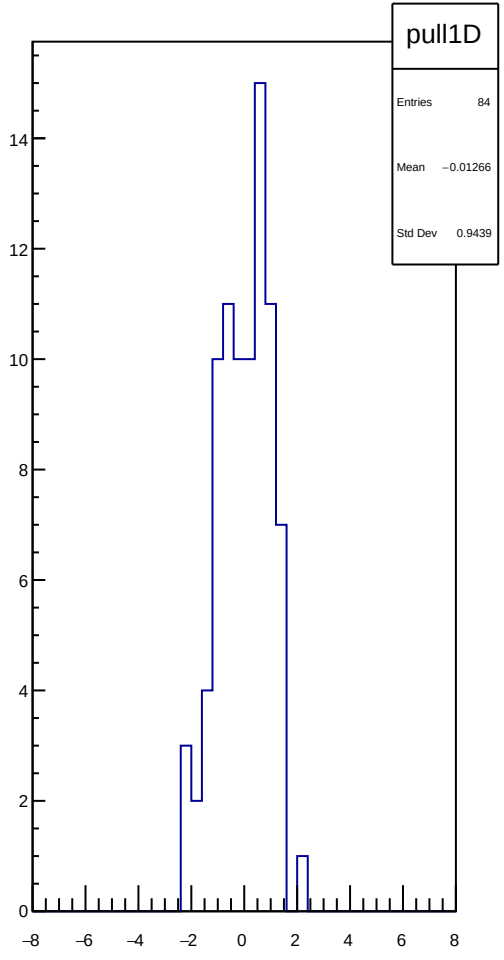

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 8575 / 83
p0 392.3 ± 0.3079
500
480
460
440
420
400
380
360
340

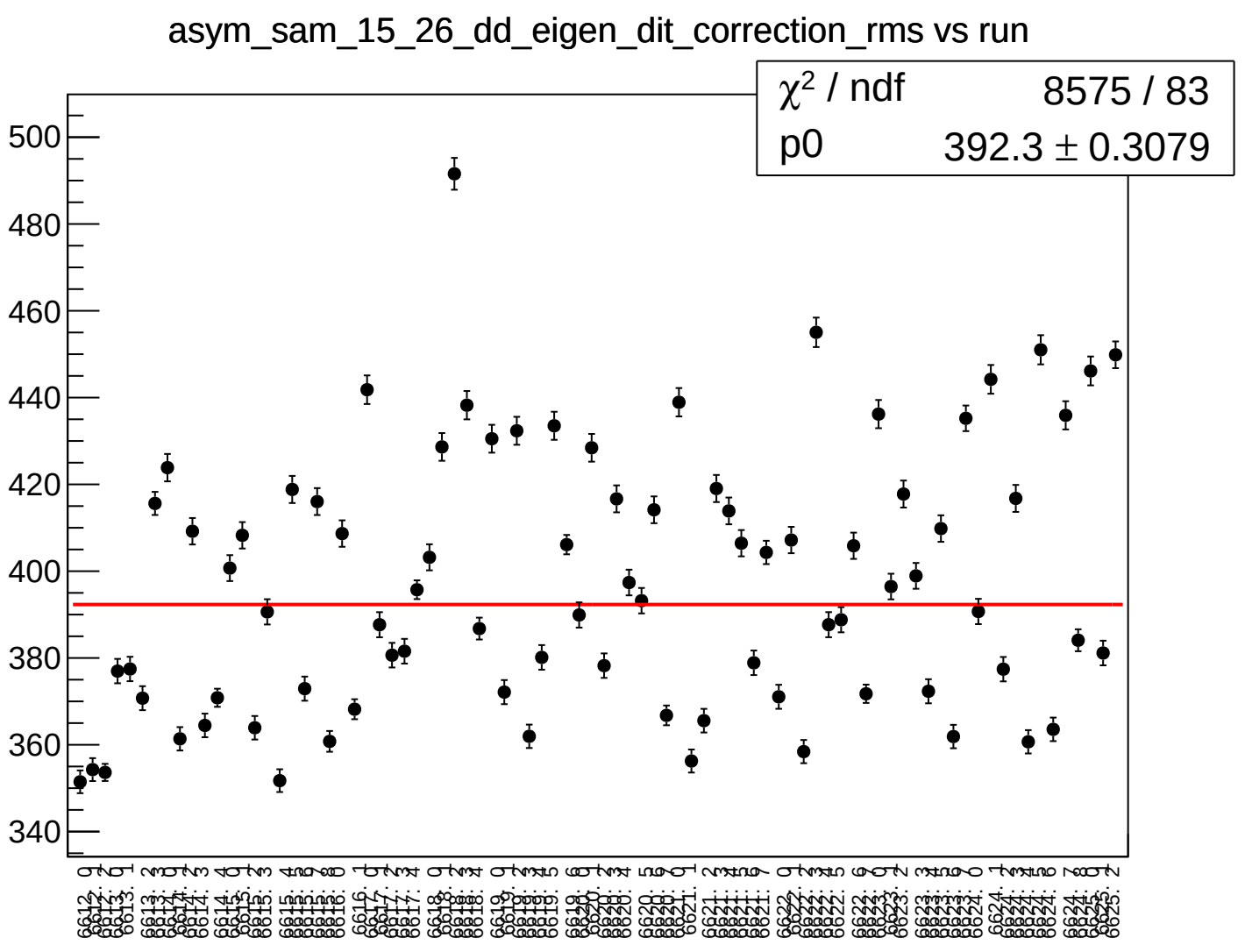

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 106.7 / 83
p0 −105.5 ± 70.29
pull
Entries 84
Mean −143.6
Std Dev 0

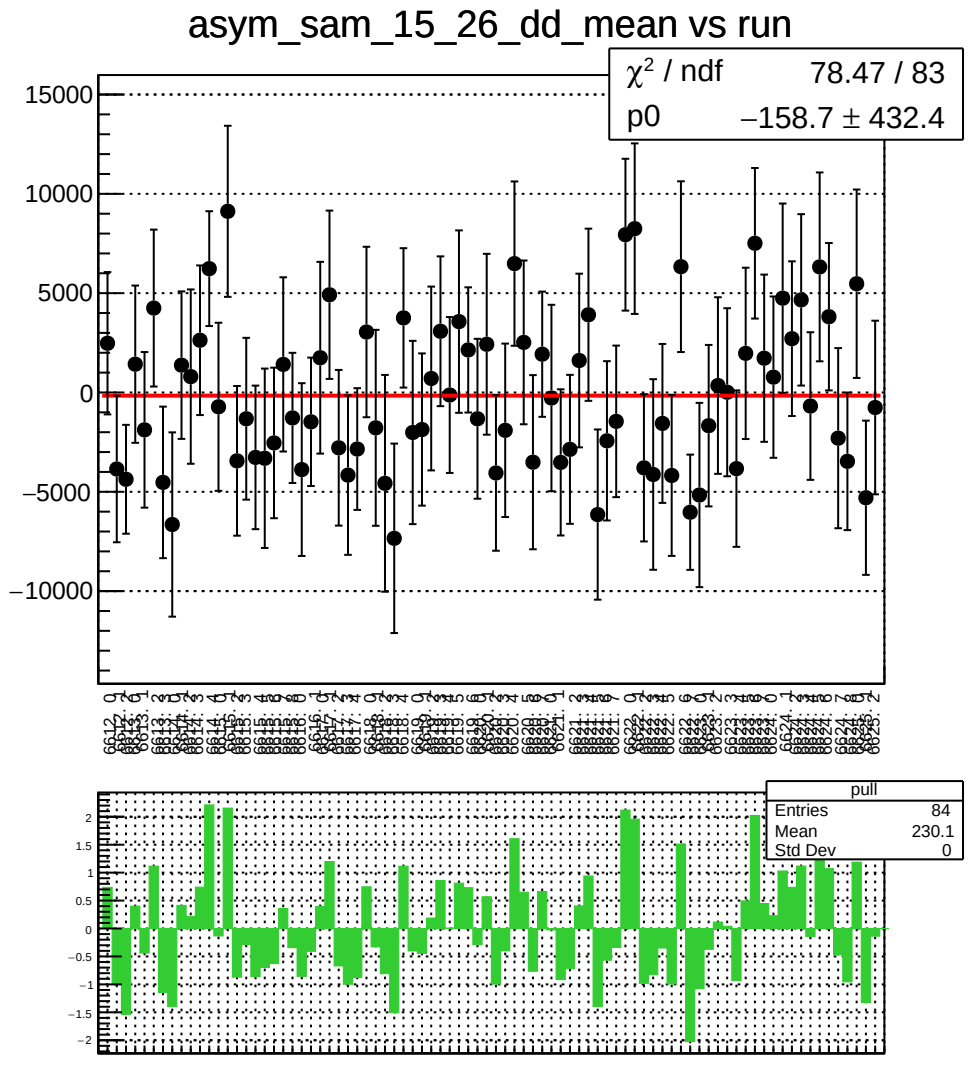

pull1D
Entries 84
Mean −0.007736
Std Dev 1.127

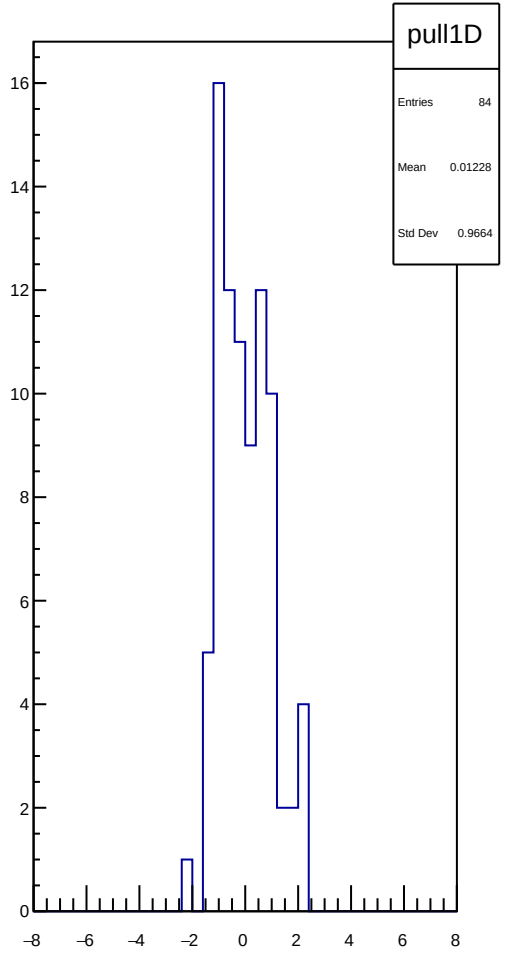

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 7603 / 83
p0 63.36 ± 0.0497
100
95
90
85
80
75
70
65
60
55

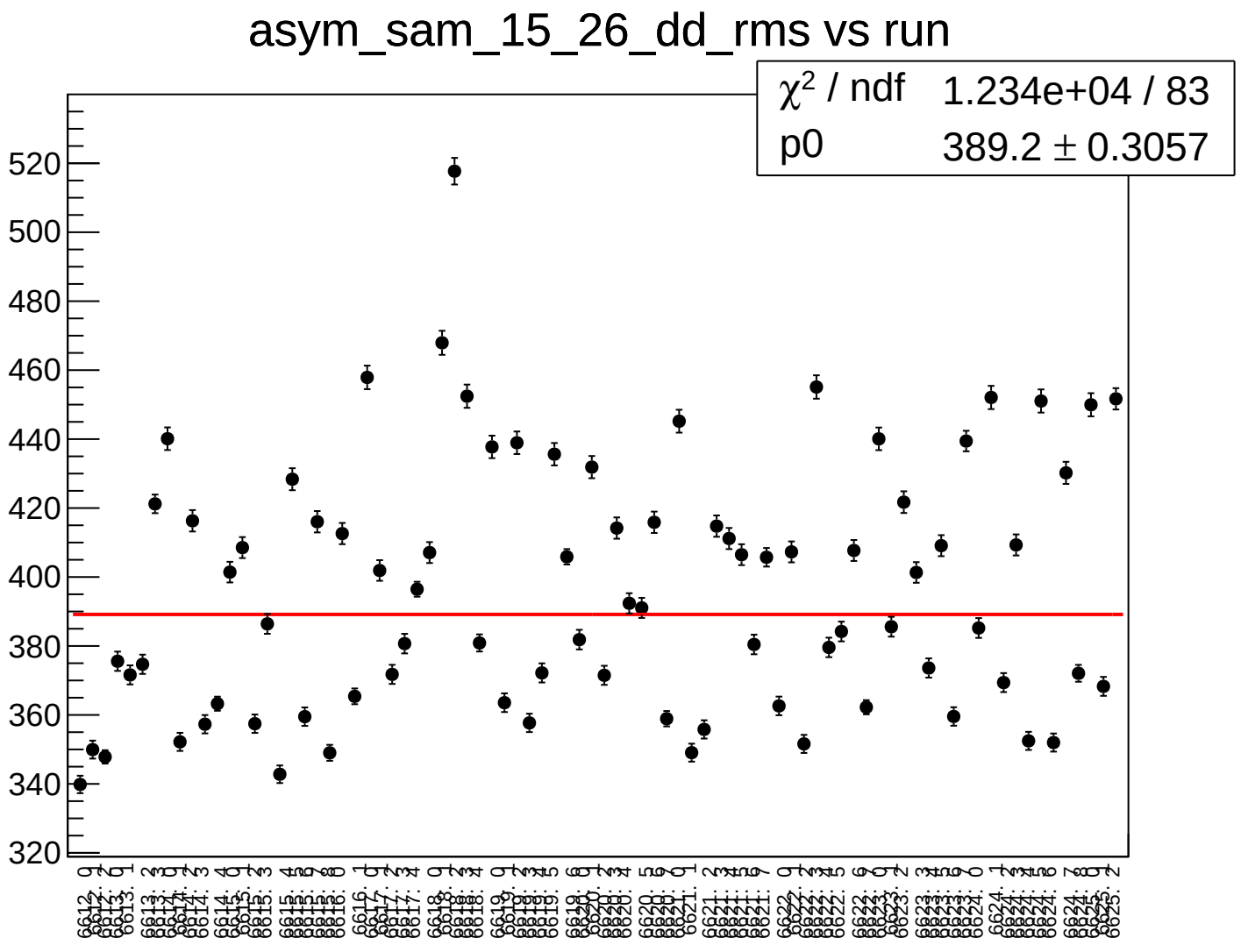

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.86 / 83
p0 49.33 ± 435.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 209.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

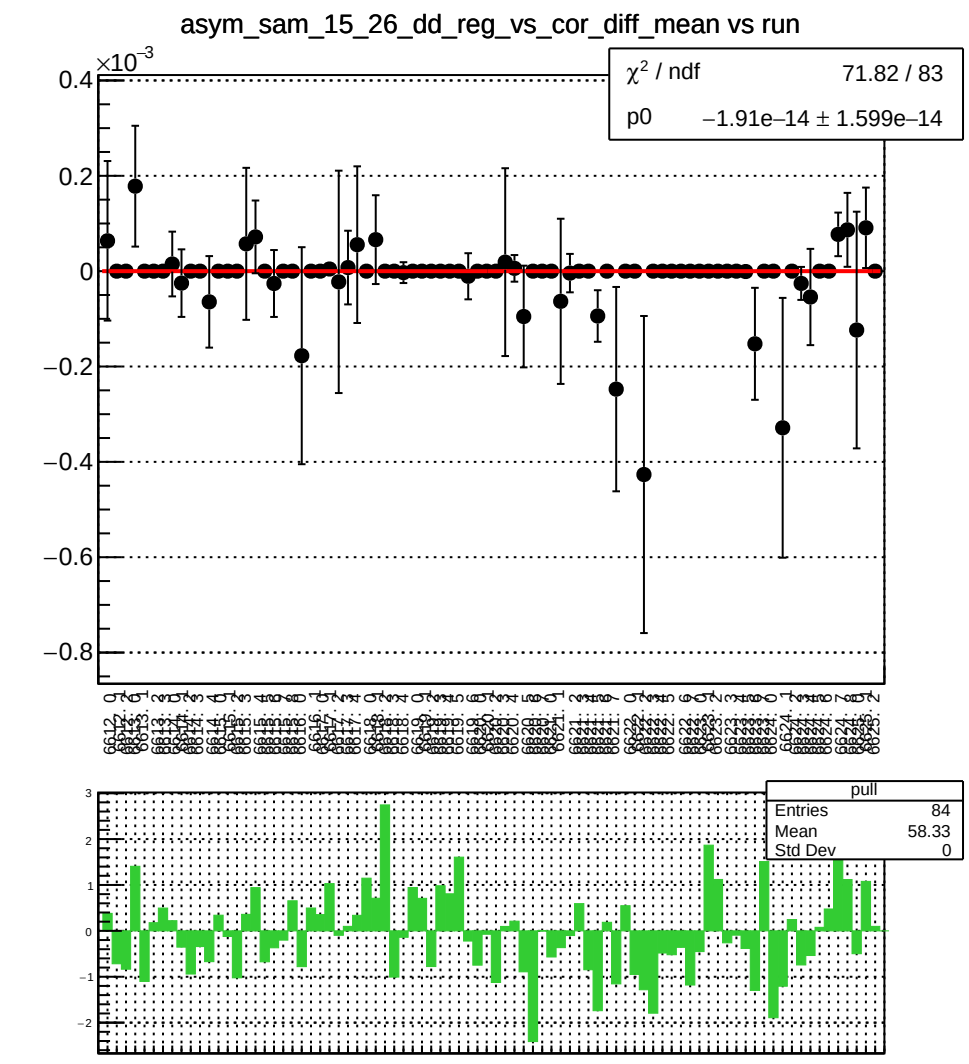

pull1D
Entries 84
Mean −0.01266
Std Dev 0.9439
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

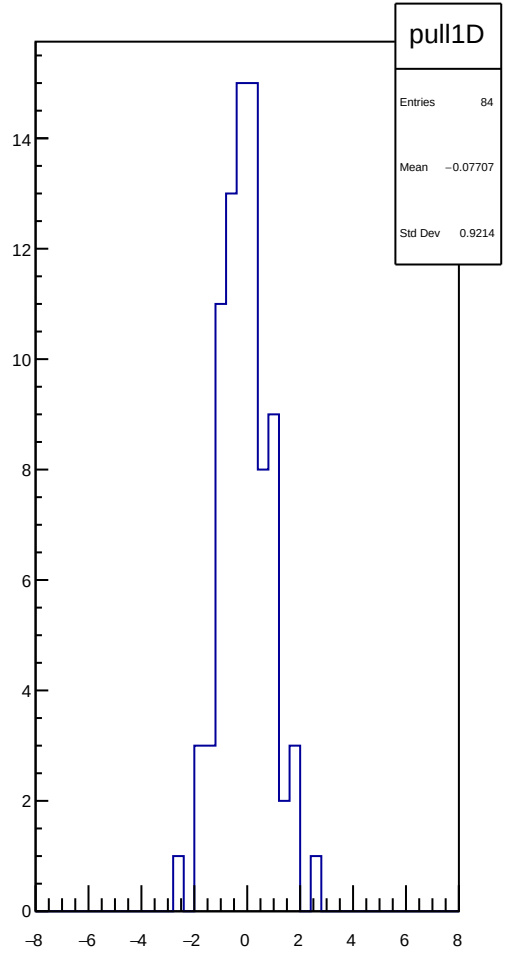

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 8575 / 83
p0 392.3 ± 0.3079
500
480
460
440
420
400
380
360
340

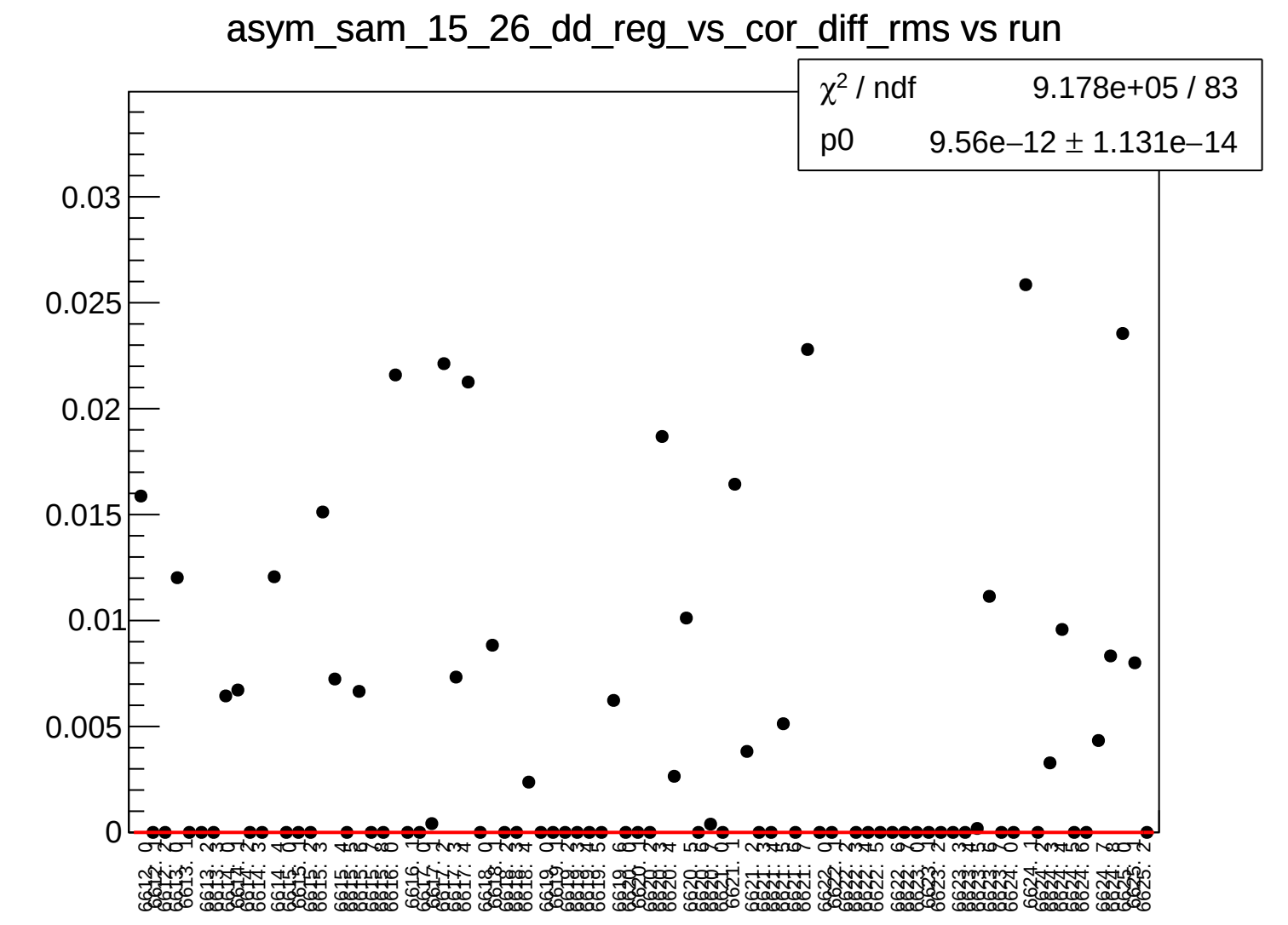

asym_sam_15_26_dd_mean vs run
χ² / ndf 78.47 / 83
p0 −158.7 ± 432.4
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 230.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

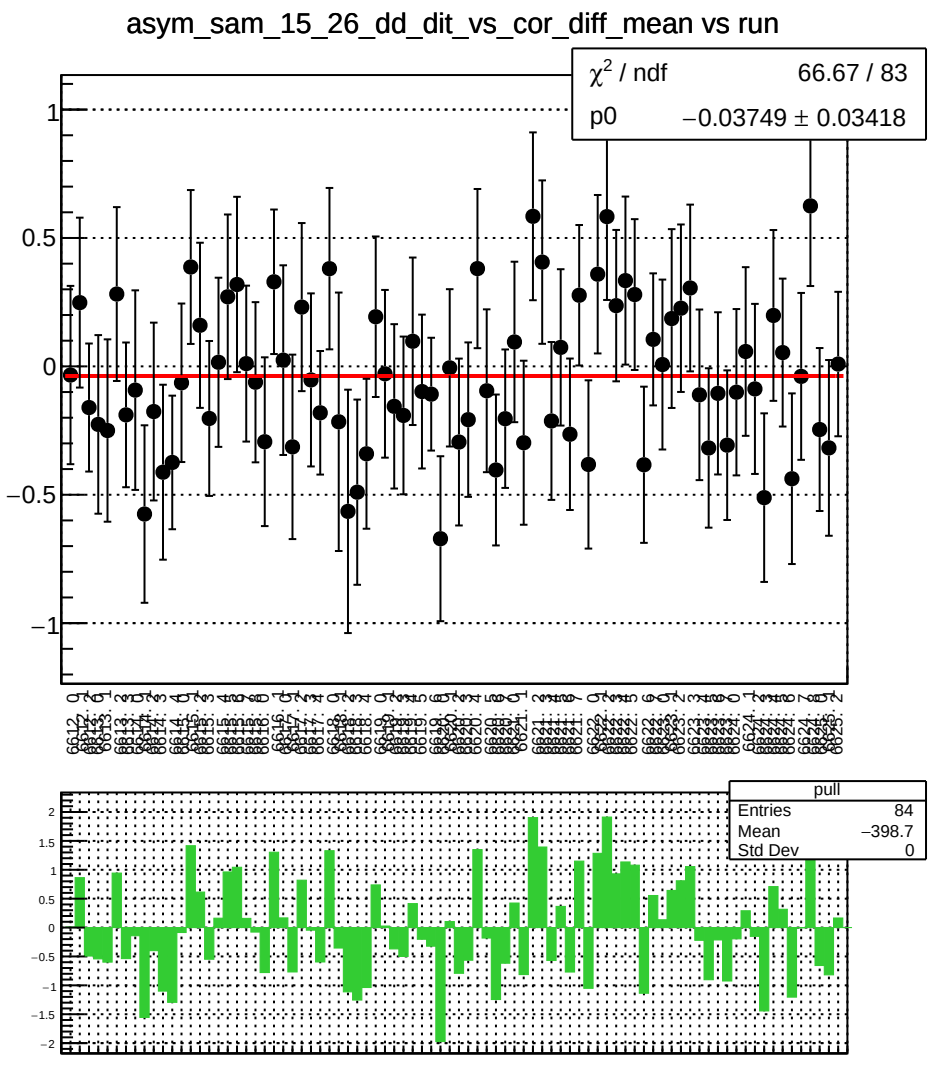

pull1D
Entries 84
Mean 0.01228
Std Dev 0.9664
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

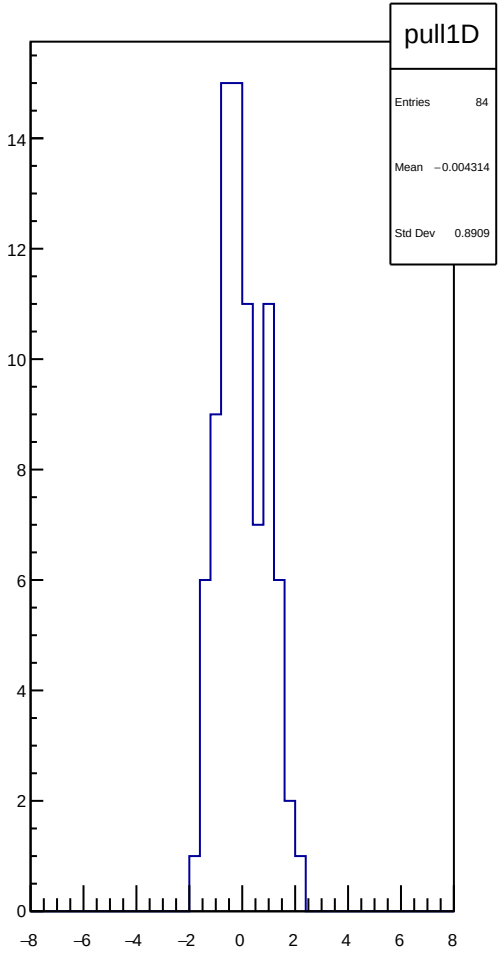

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.234e+04 / 83
p0 389.2 ± 0.3057
520
500
480
460
440
420
400
380
360
340
320

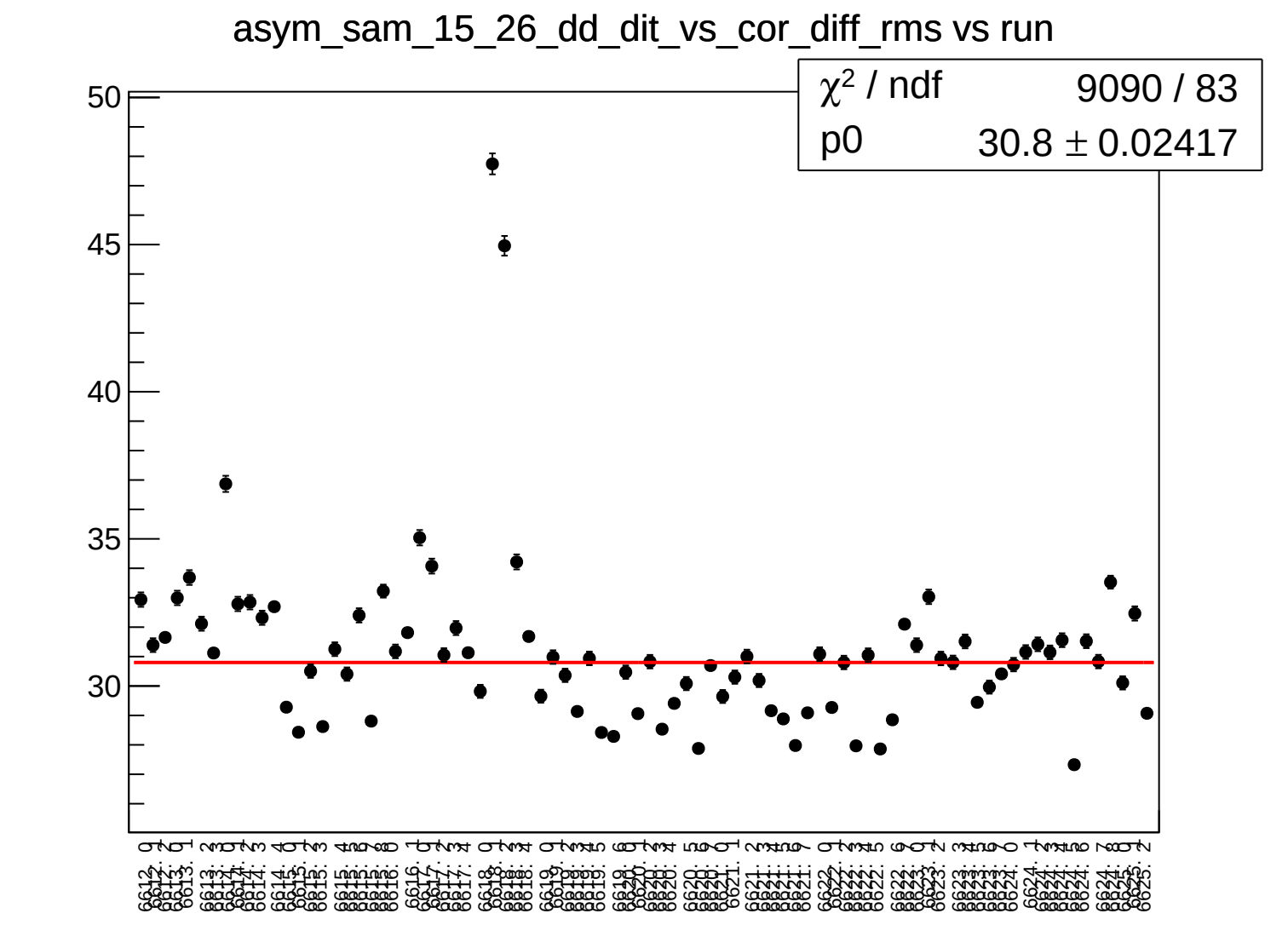

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 71.82 / 83
p0 −1.91e−14 ± 1.599e−14
pull
Entries 84
Mean 58.33
Std Dev 0

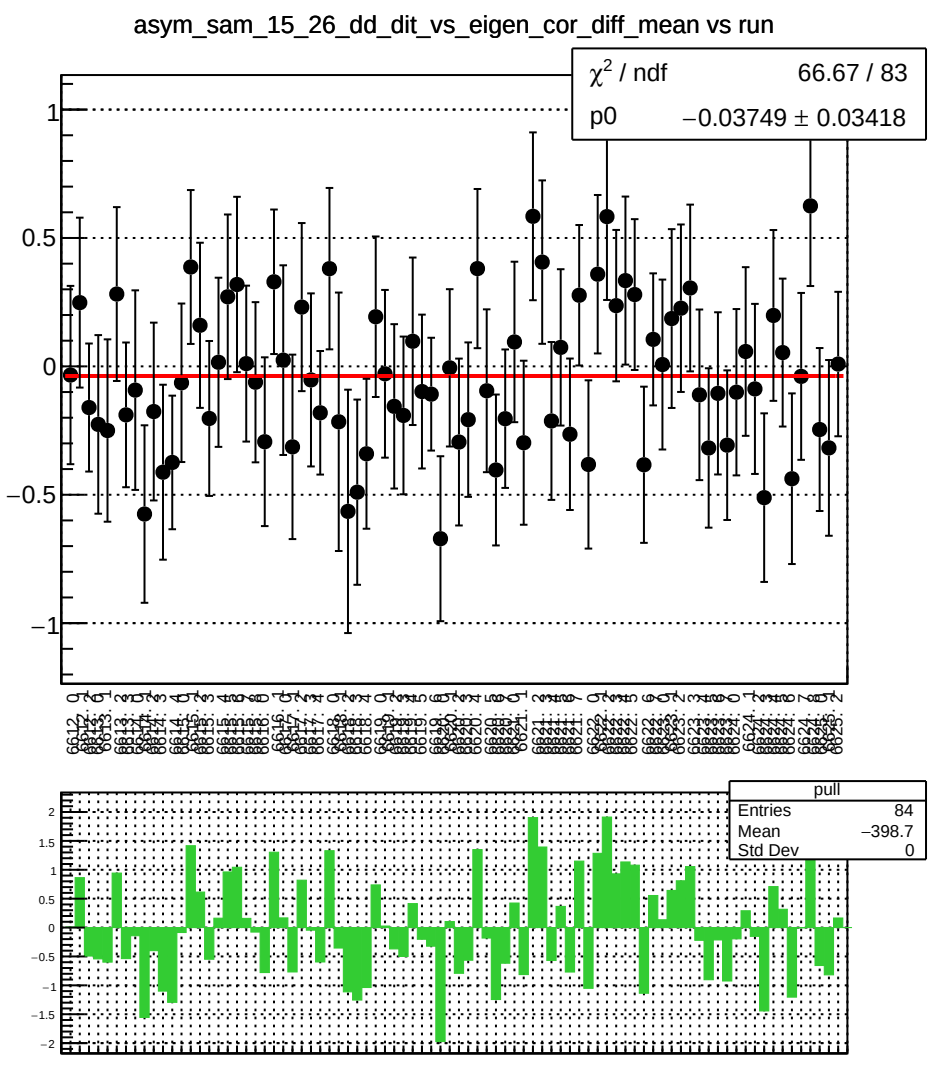

pull1D
Entries 84
Mean −0.07707
Std Dev 0.9214

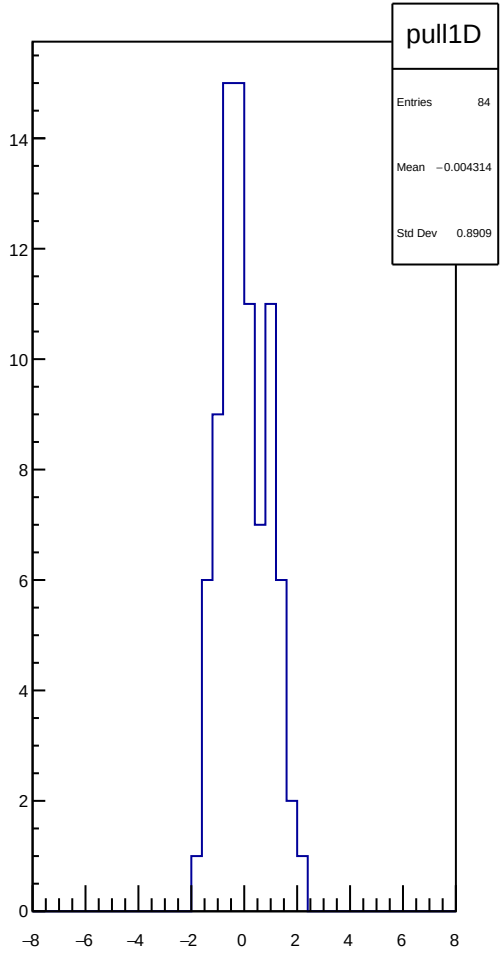

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.178e+05 / 83
p0 9.56e−12 ± 1.131e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

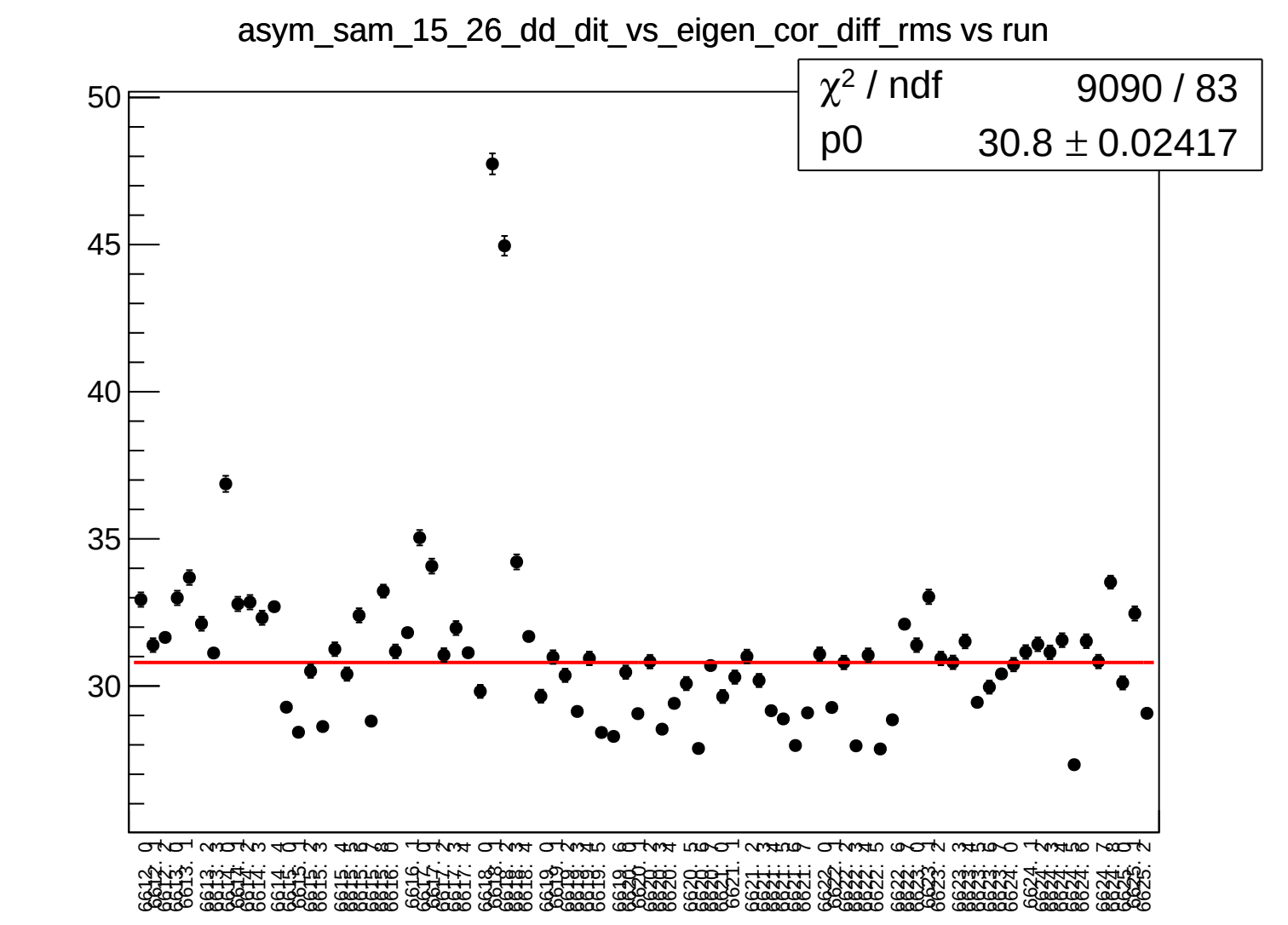

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 66.67 / 83
p0 −0.03749 ± 0.03418
pull
Entries 84
Mean −398.7
Std Dev 0

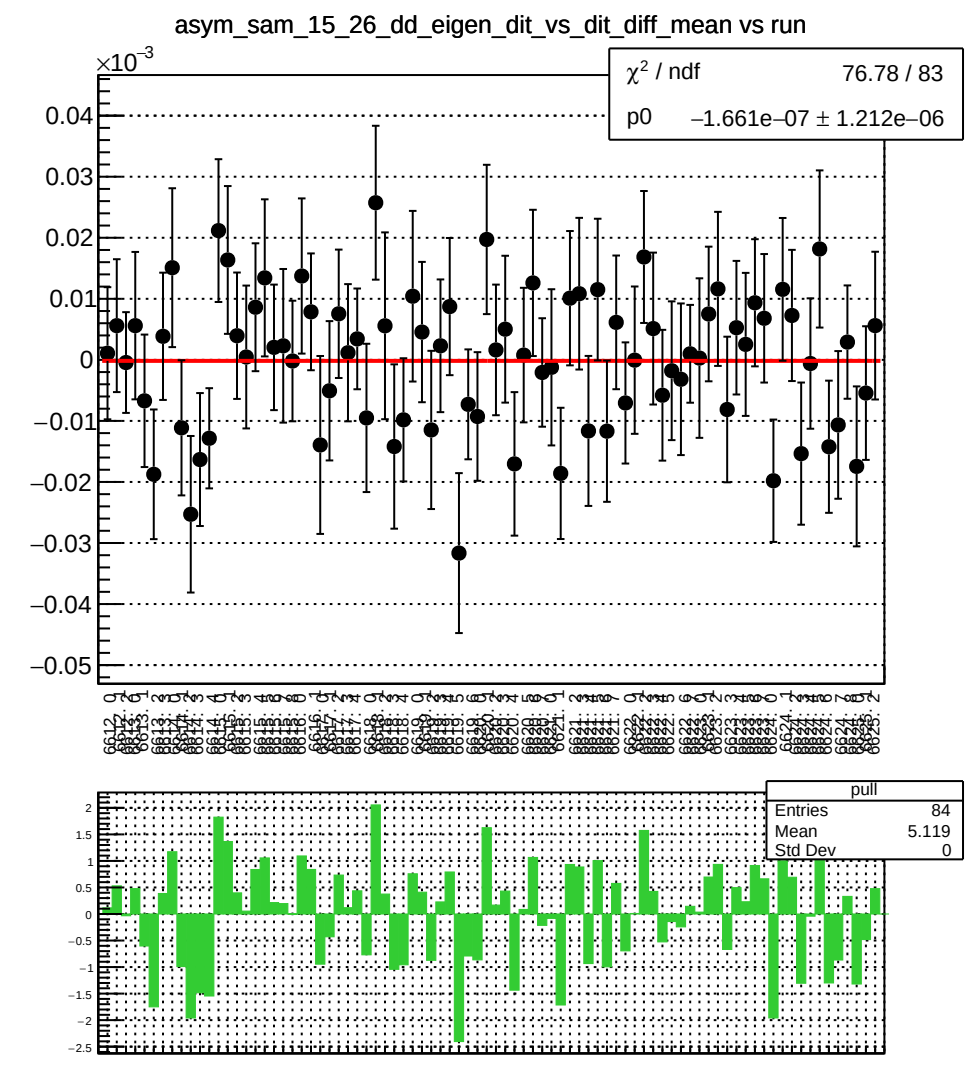

pull1D
Entries 84
Mean −0.004314
Std Dev 0.8909

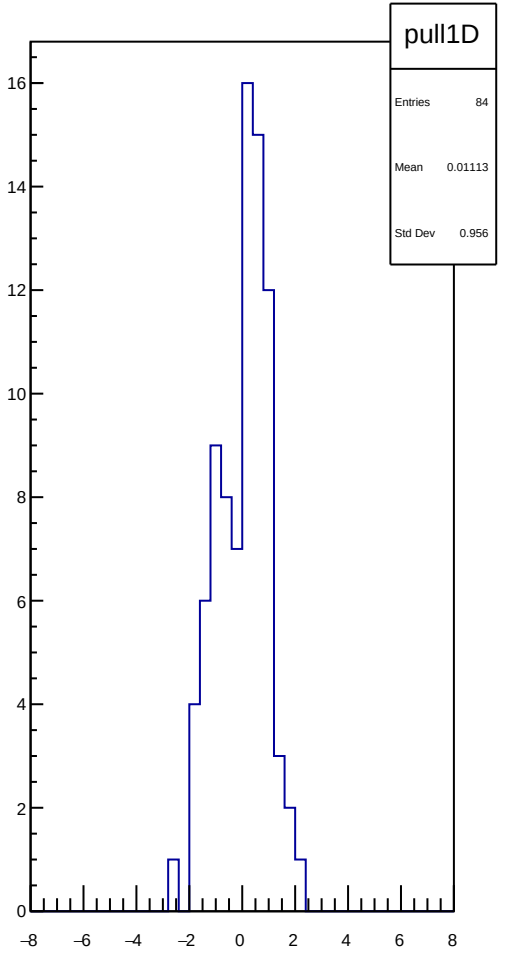

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9090 / 83
p0 30.8 ± 0.02417
50
45
40
35
30

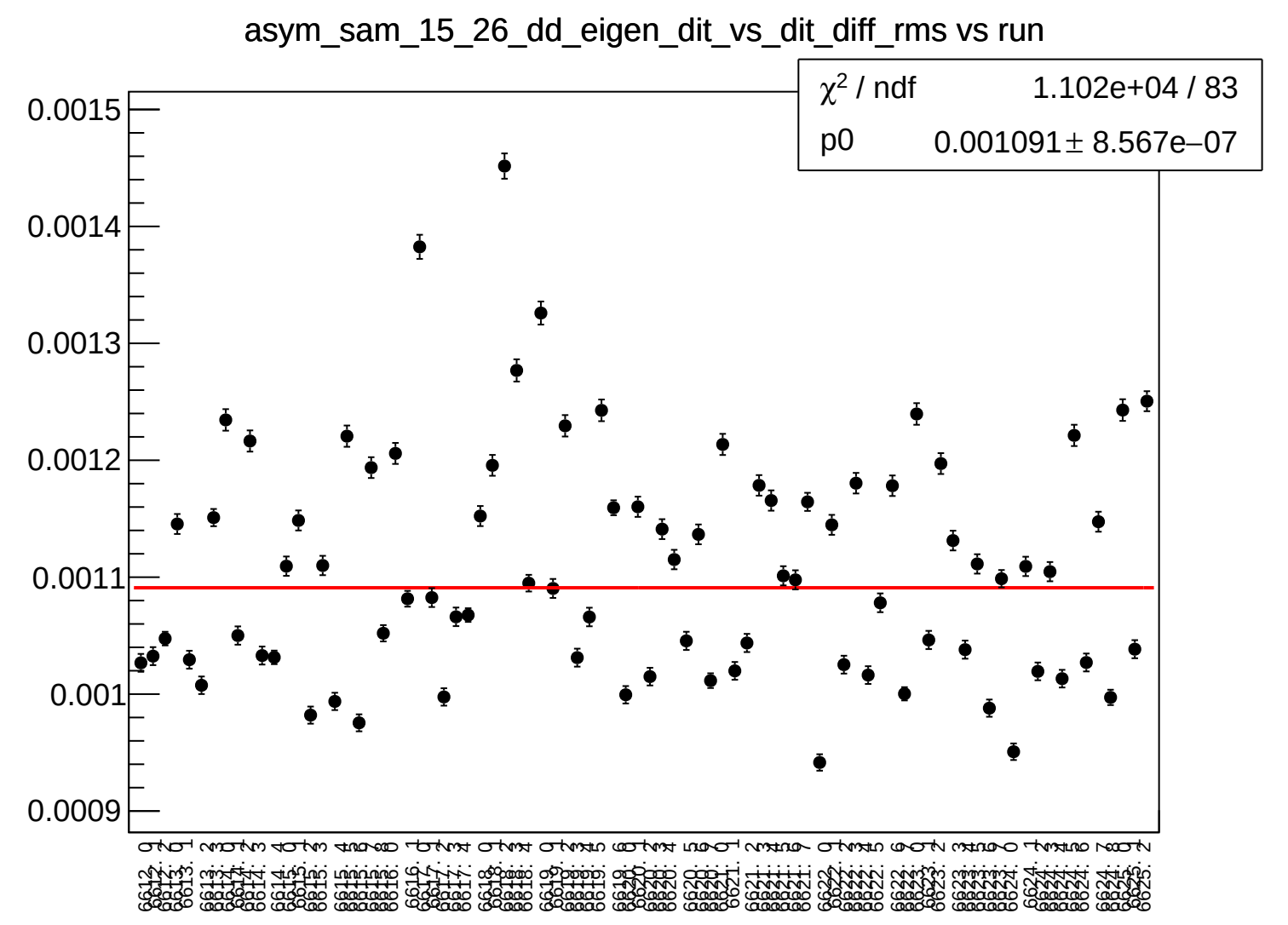

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.67 / 83
p0 −0.03749 ± 0.03418
pull
Entries 84
Mean −398.7
Std Dev 0

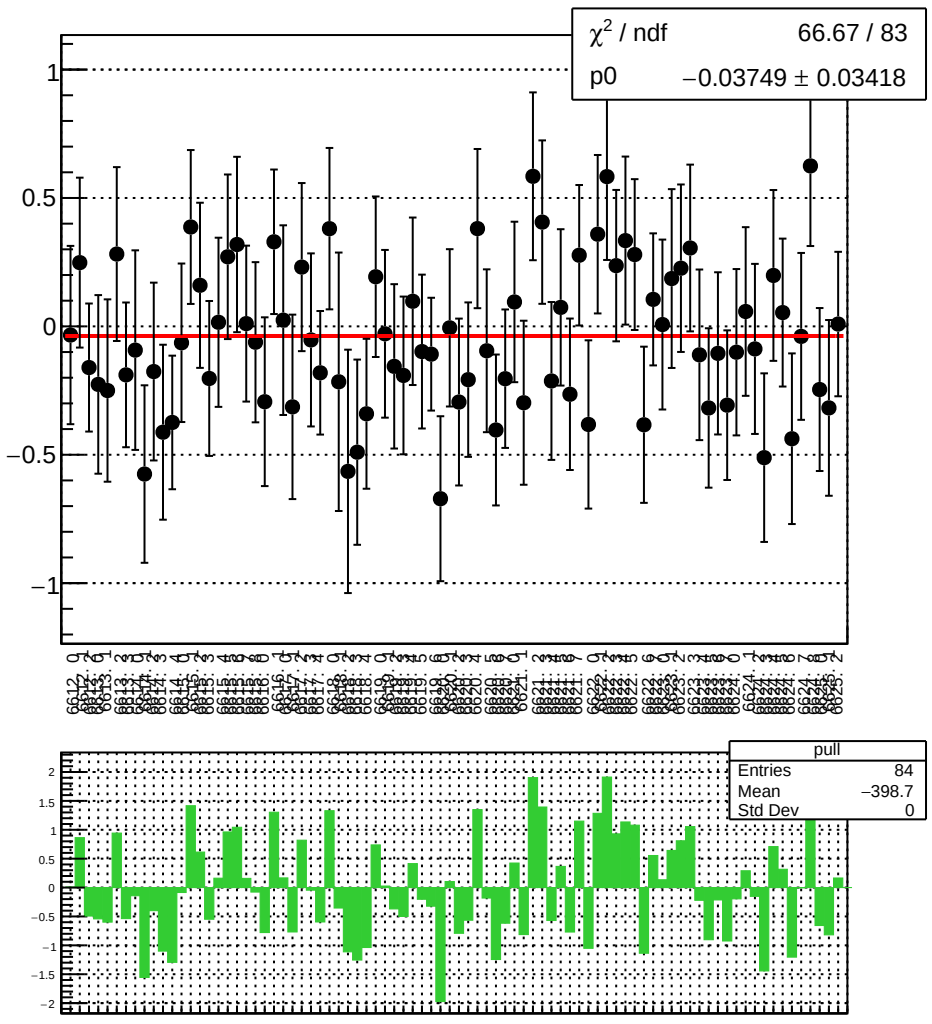

pull1D
Entries 84
Mean −0.004314
Std Dev 0.8909

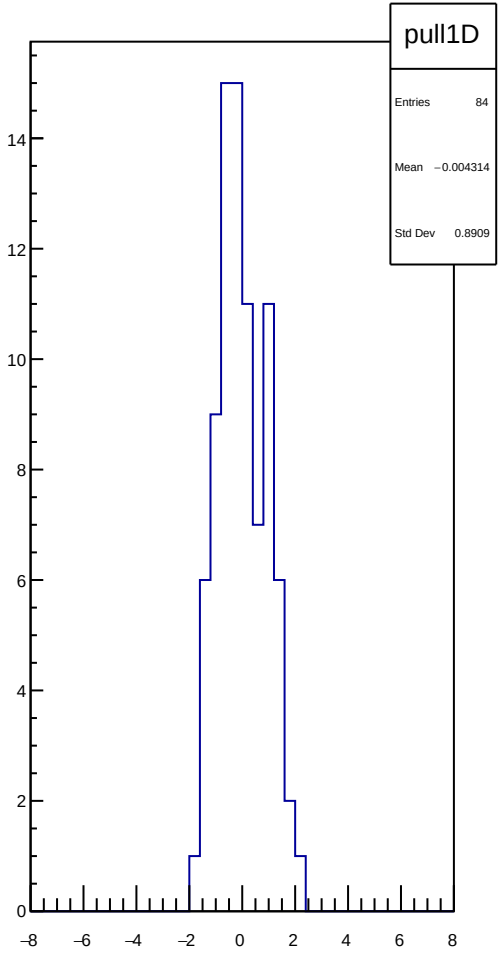

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9090 / 83
p0 30.8 ± 0.02417
50
45
40
35
30

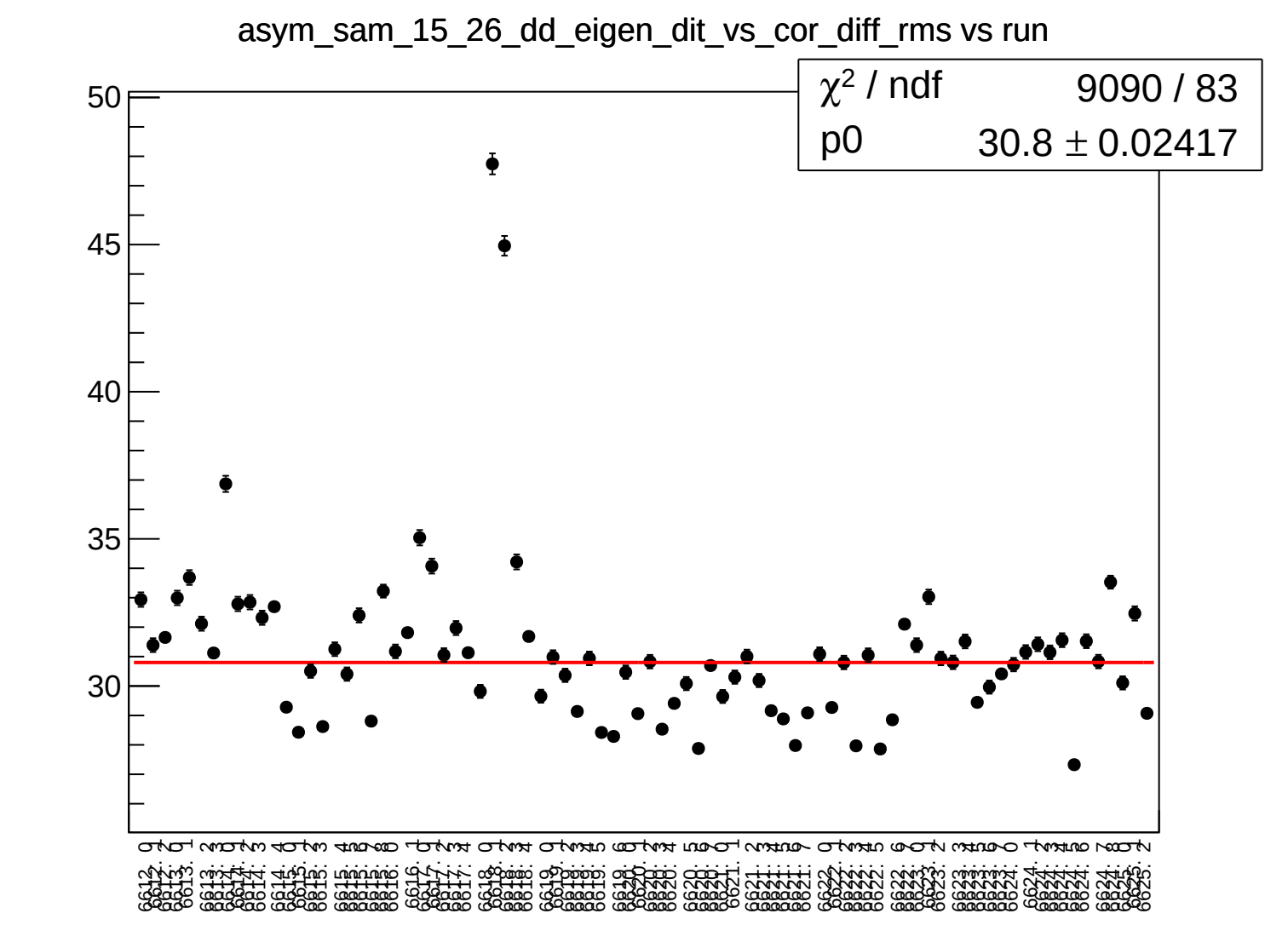

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 76.78 / 83
p0 −1.661e−07 ± 1.212e−06
pull
Entries 84
Mean 5.119
Std Dev 0

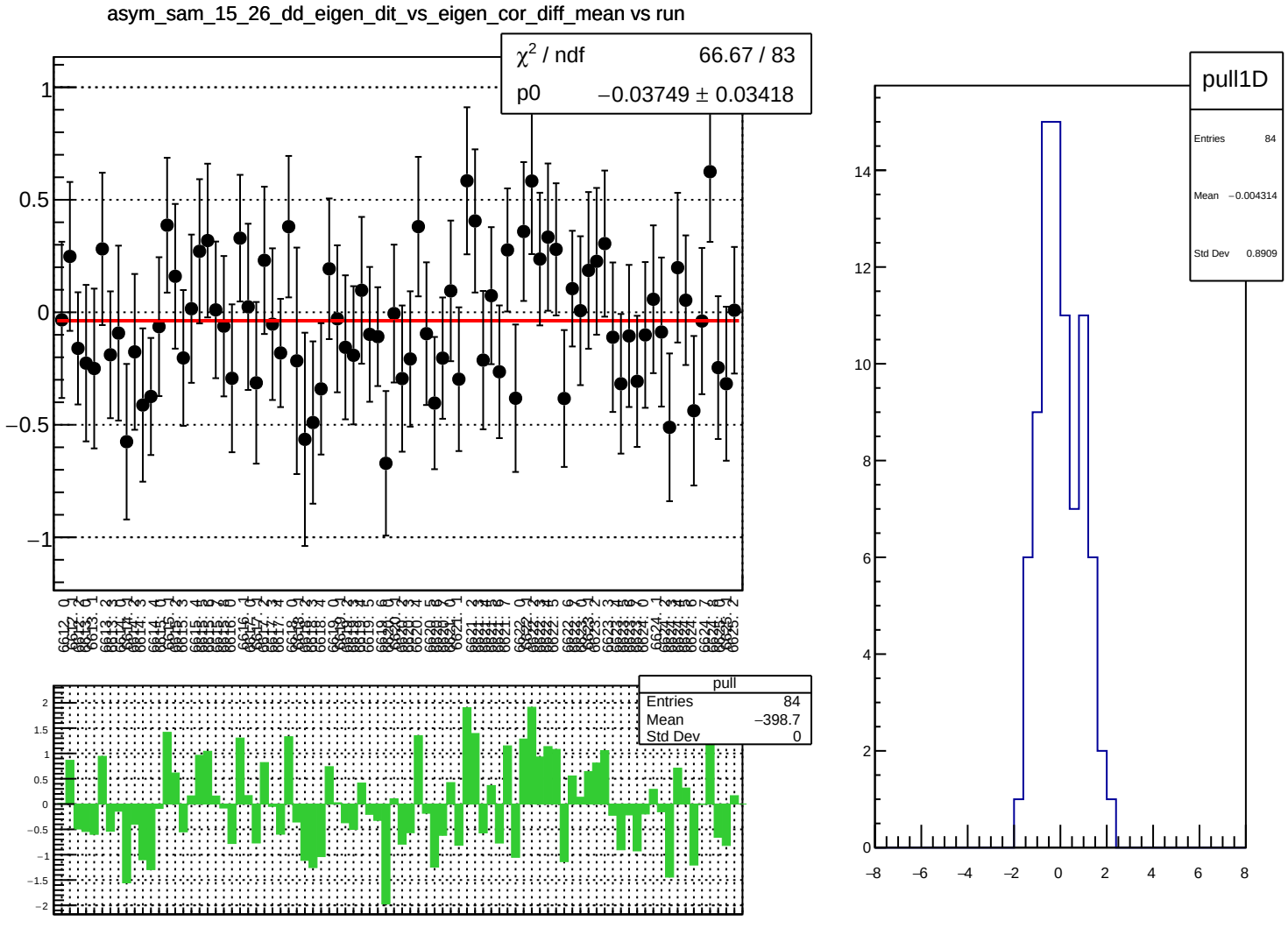

pull1D
Entries 84
Mean 0.01113
Std Dev 0.956

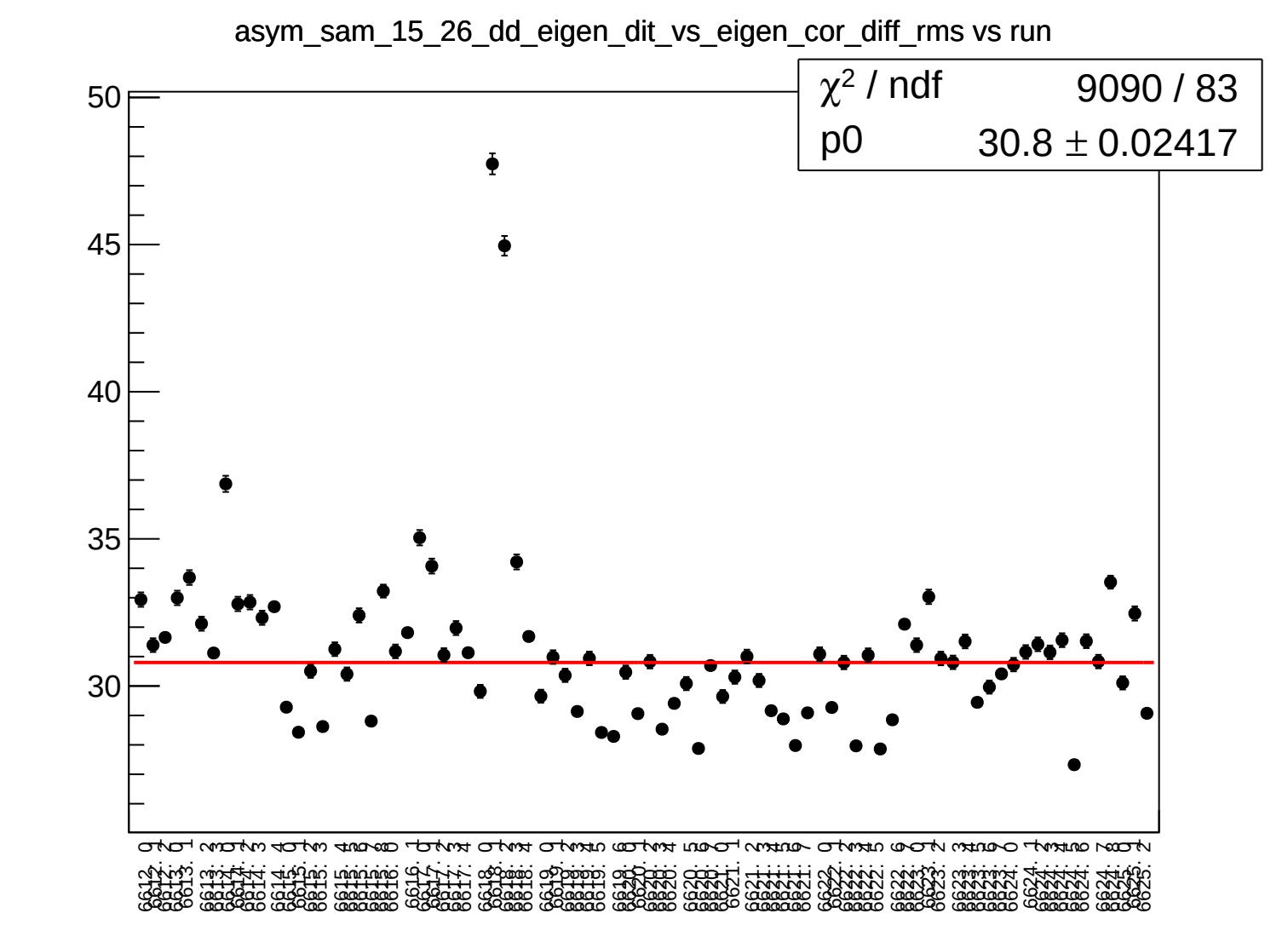

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.102e+04 / 83
p0 0.001091 ± 8.567e−07
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009

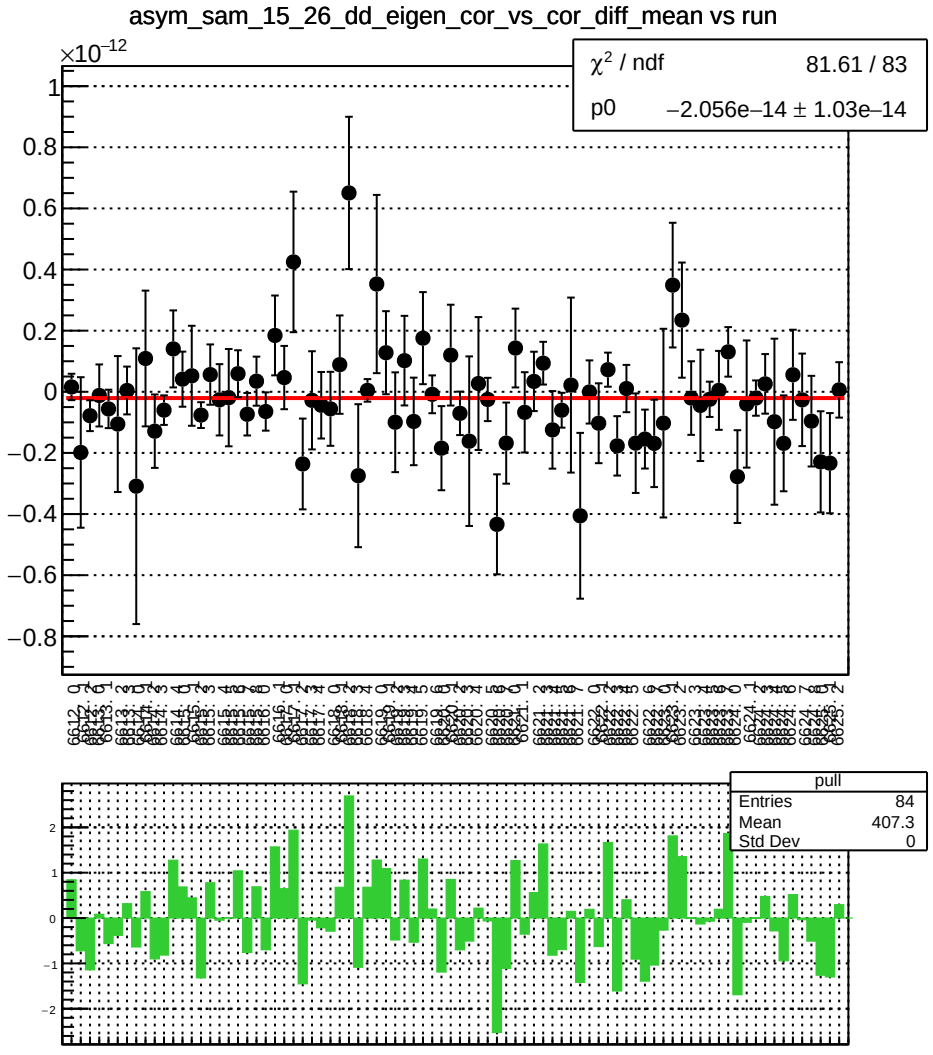

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.67 / 83
p0 −0.03749 ± 0.03418
pull
Entries 84
Mean −398.7
Std Dev 0

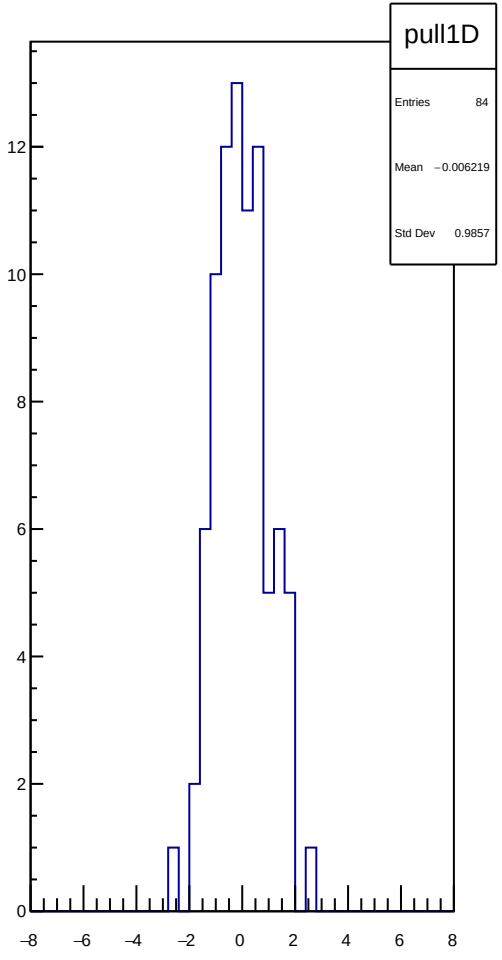

pull1D
Entries 84
Mean −0.004314
Std Dev 0.8909

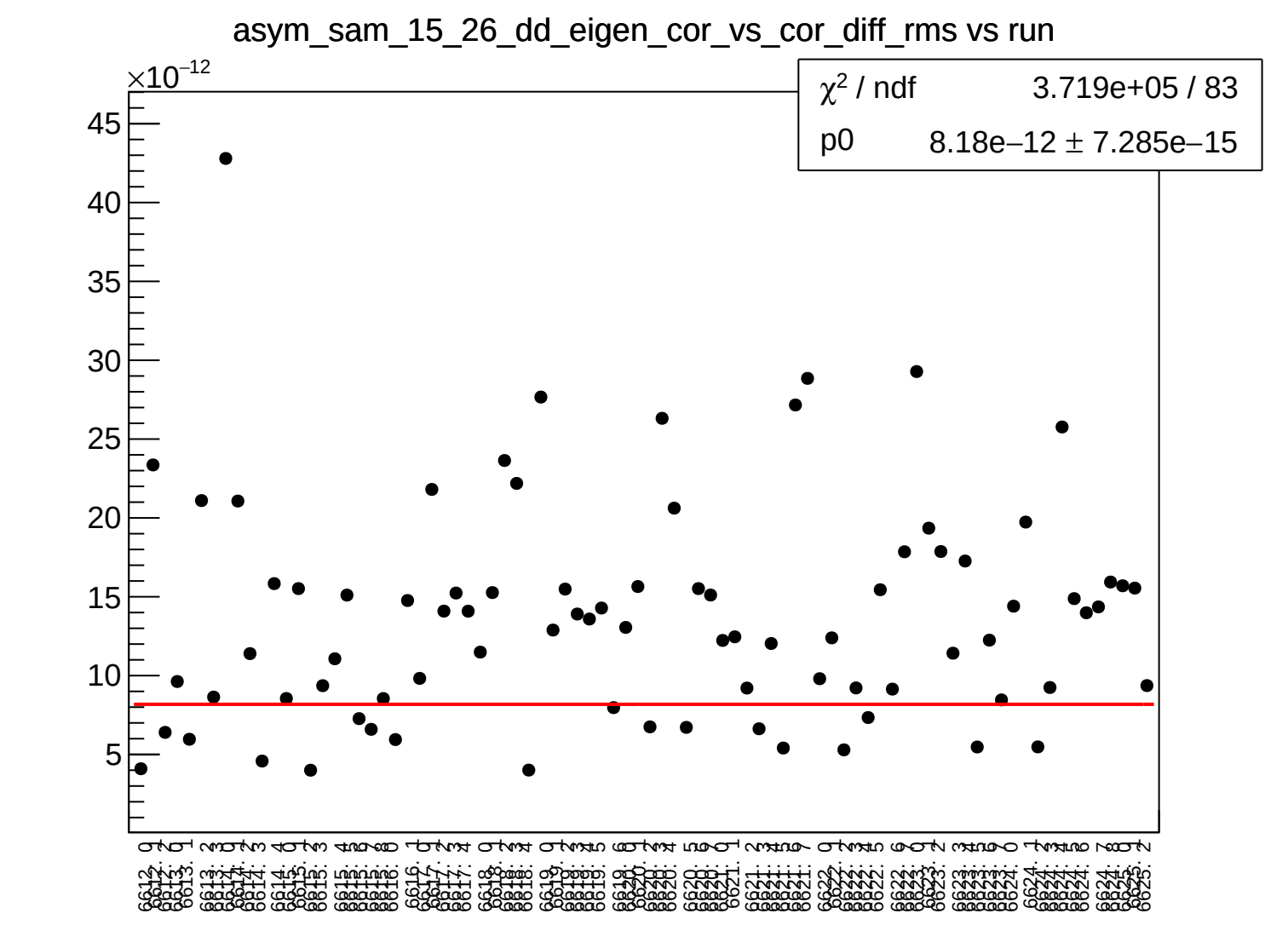

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9090 / 83
p0 30.8 ± 0.02417
50
45
40
35
30

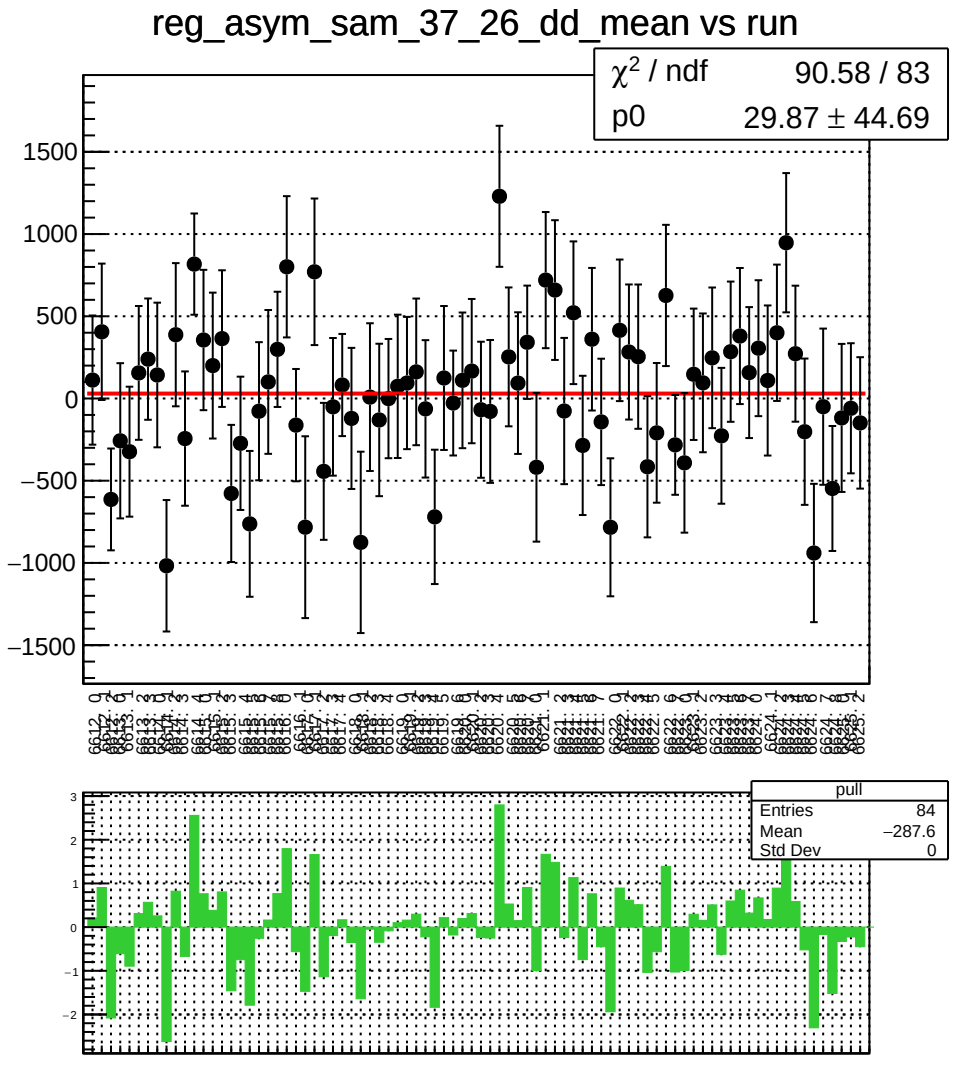

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.67 / 83
p0 −0.03749 ± 0.03418
pull
Entries 84
Mean −398.7
Std Dev 0
pull1D
Entries 84
Mean −0.004314
Std Dev 0.8909

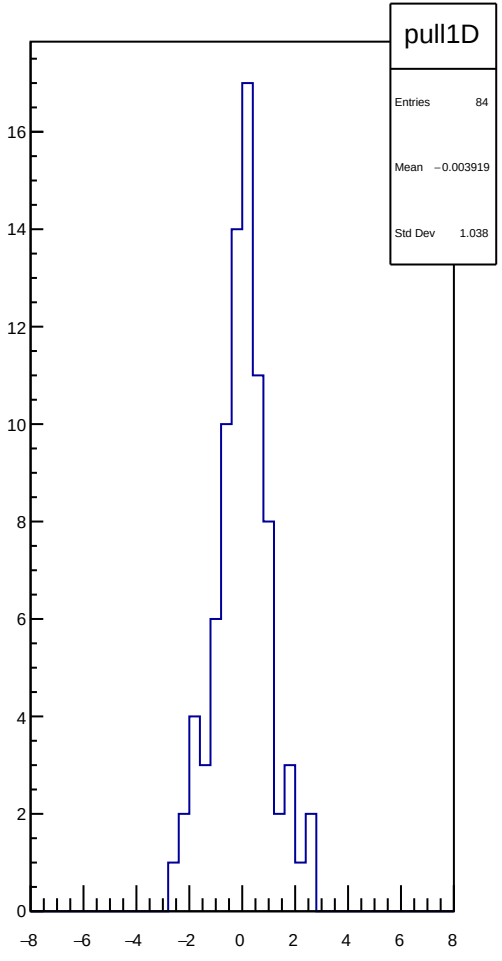

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9090 / 83
p0 30.8 ± 0.02417
50
45
40
35
30

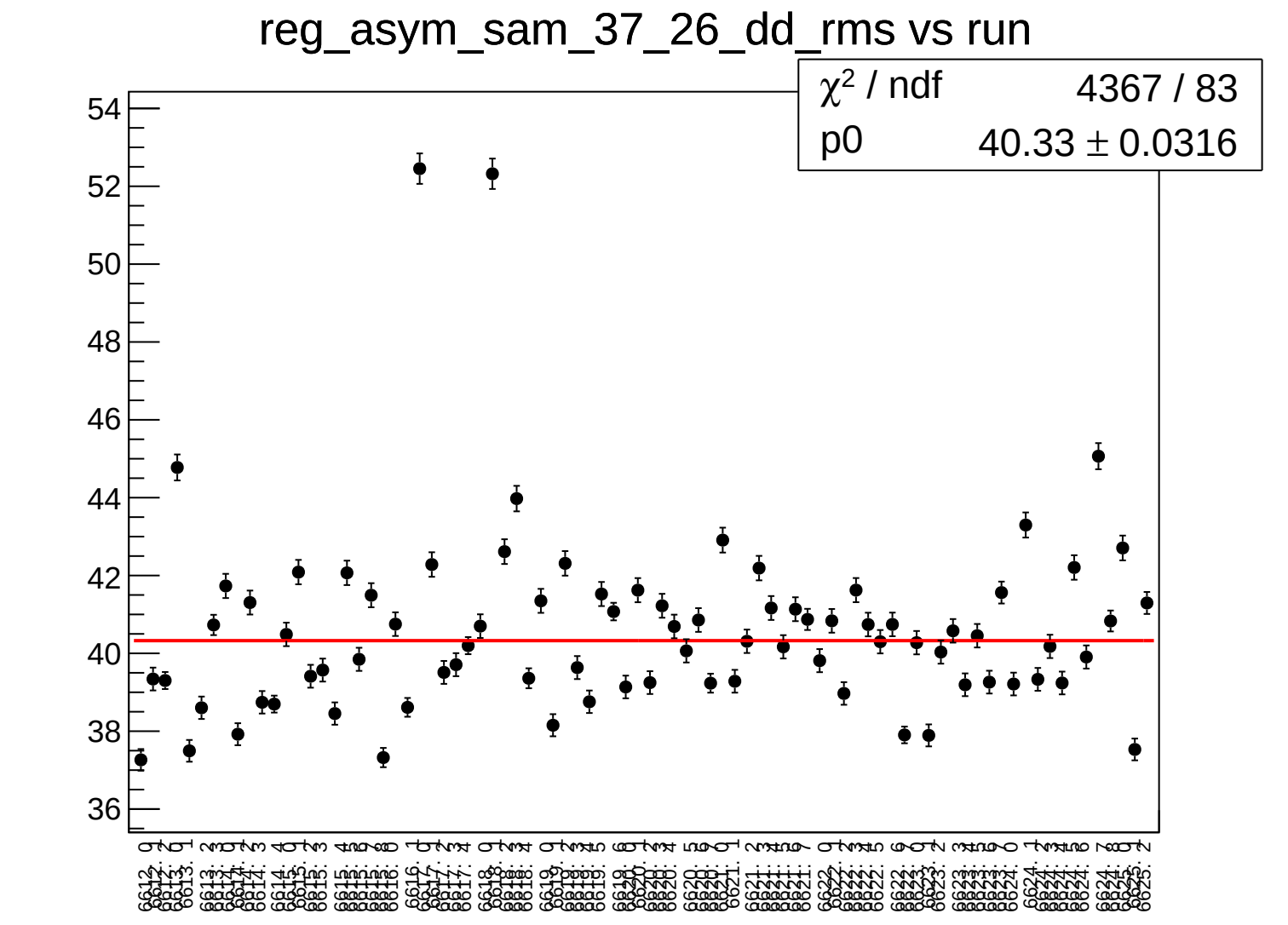

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.61 / 83
p0 −2.056e−14 ± 1.03e−14
pull
Entries 84
Mean 407.3
Std Dev 0

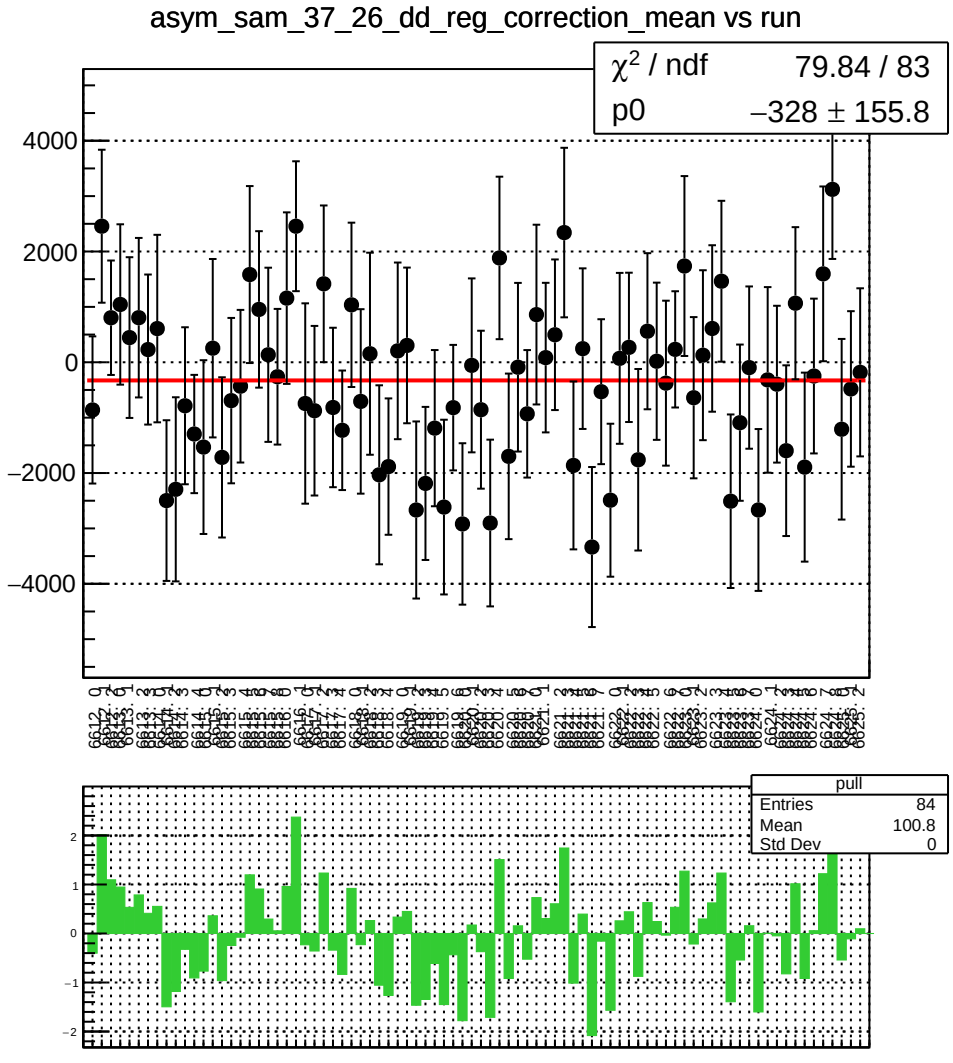

pull1D
Entries 84
Mean −0.006219
Std Dev 0.9857

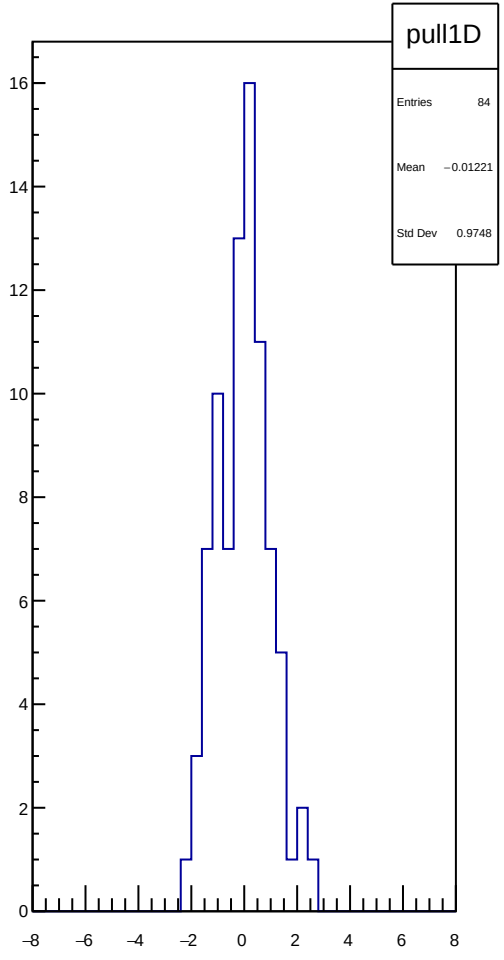

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.719e+05 / 83
p0 8.18e−12 ± 7.285e−15
45
40
35
30
25
20
15
10
5

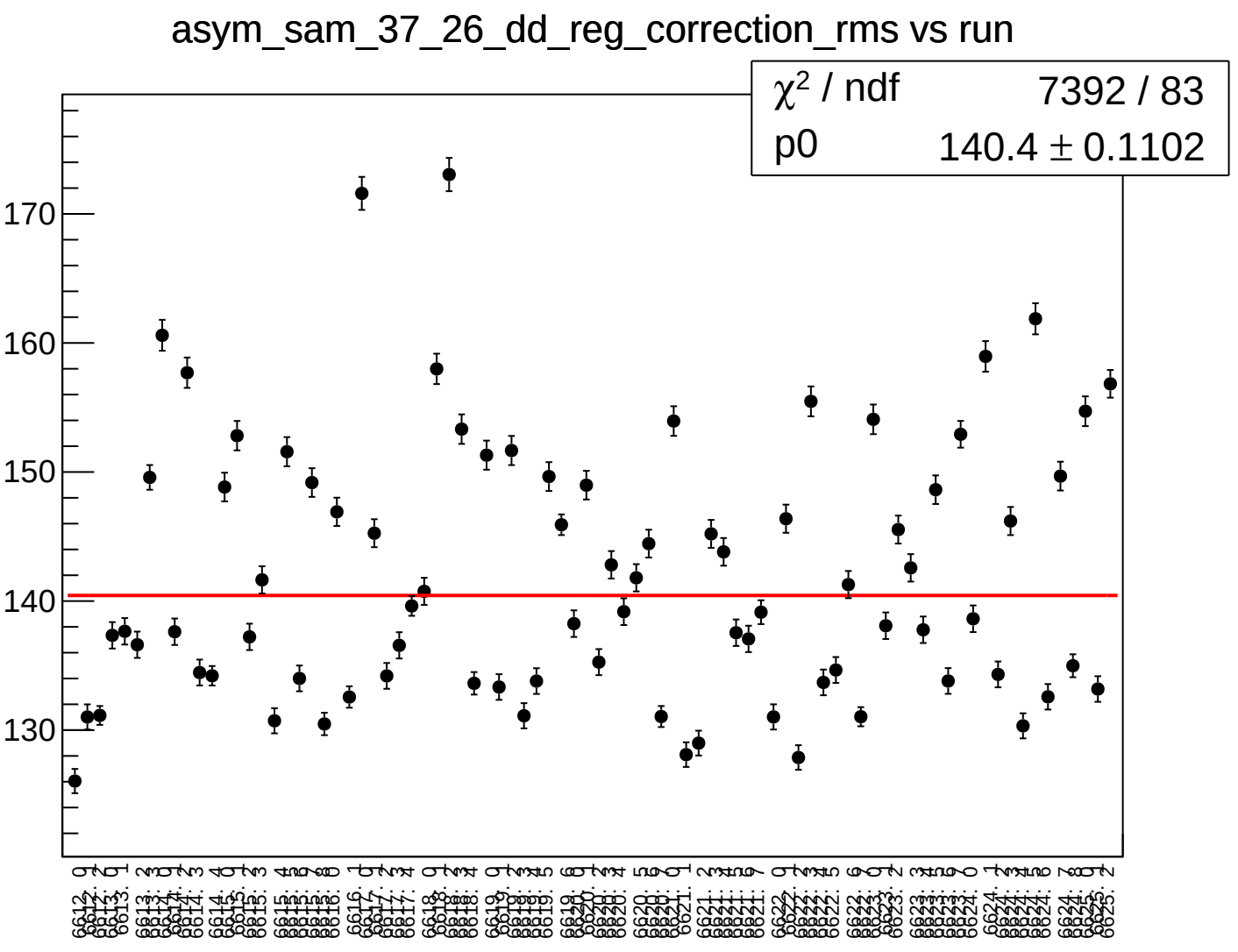

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 90.58 / 83
p0 29.87 ± 44.69
pull
Entries 84
Mean −287.6
Std Dev 0

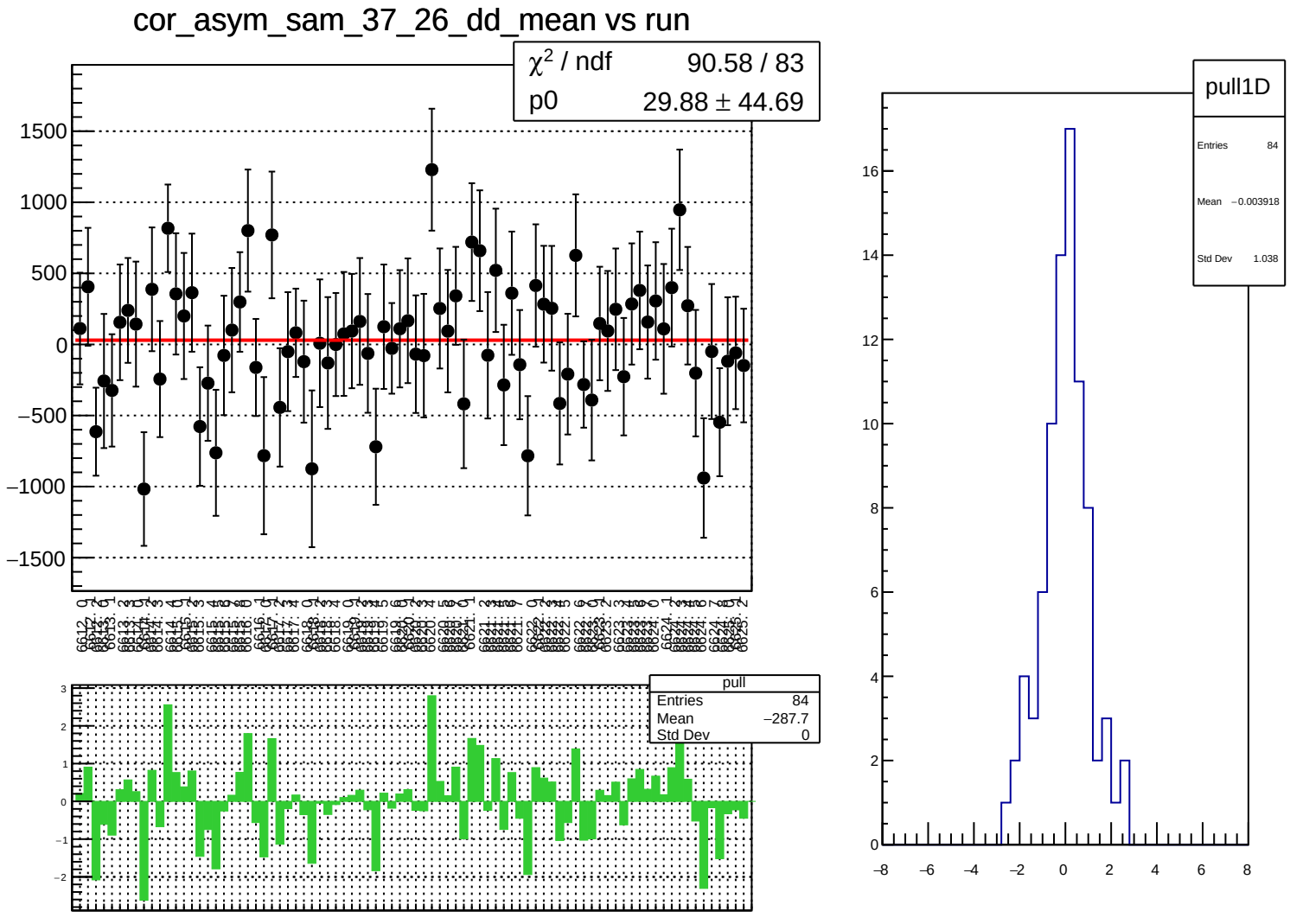

pull1D
Entries 84
Mean −0.003919
Std Dev 1.038

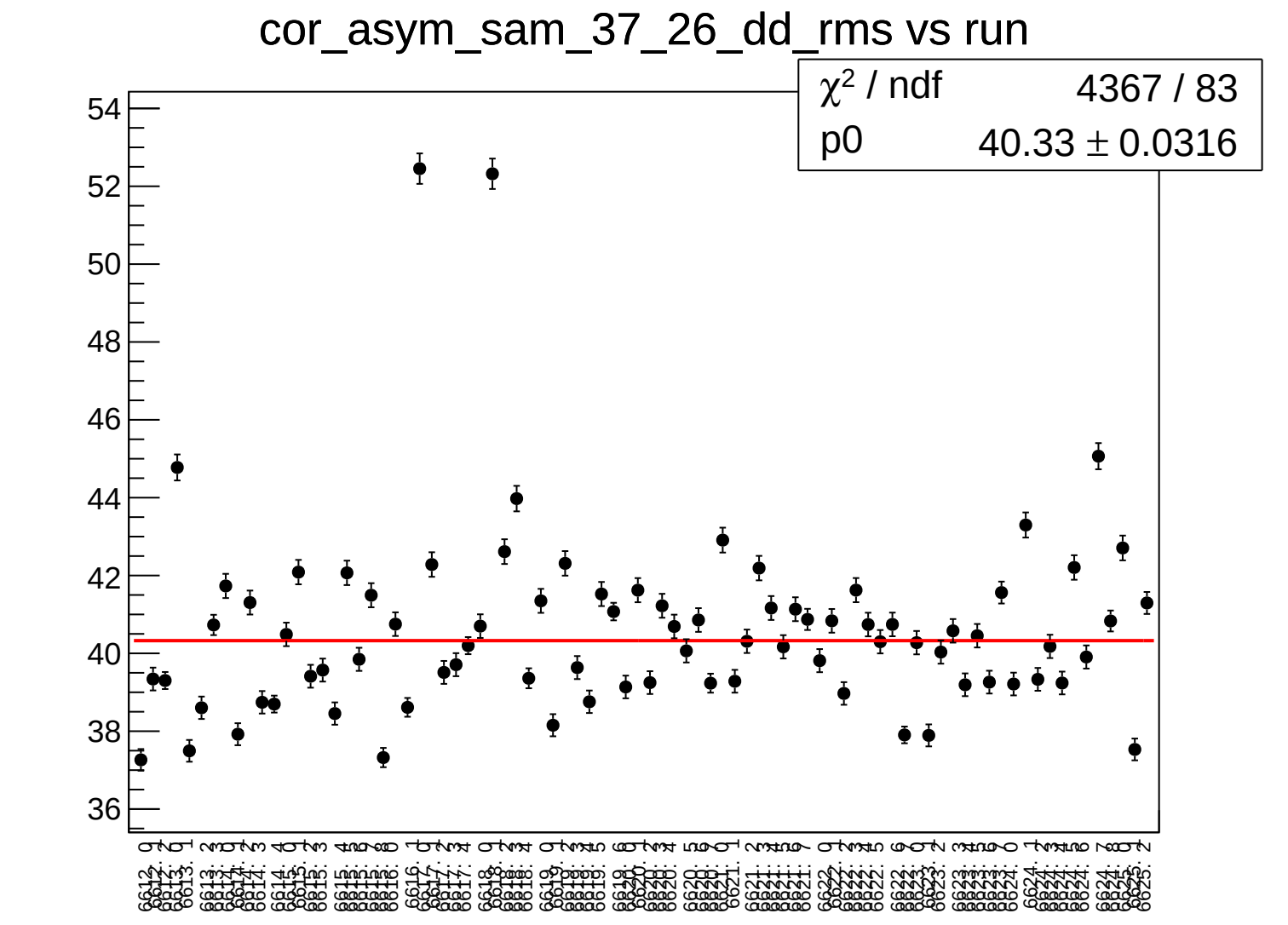

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 4367 / 83
p0 40.33 ± 0.0316
54
52
50
48
46
44
42
40
38
36

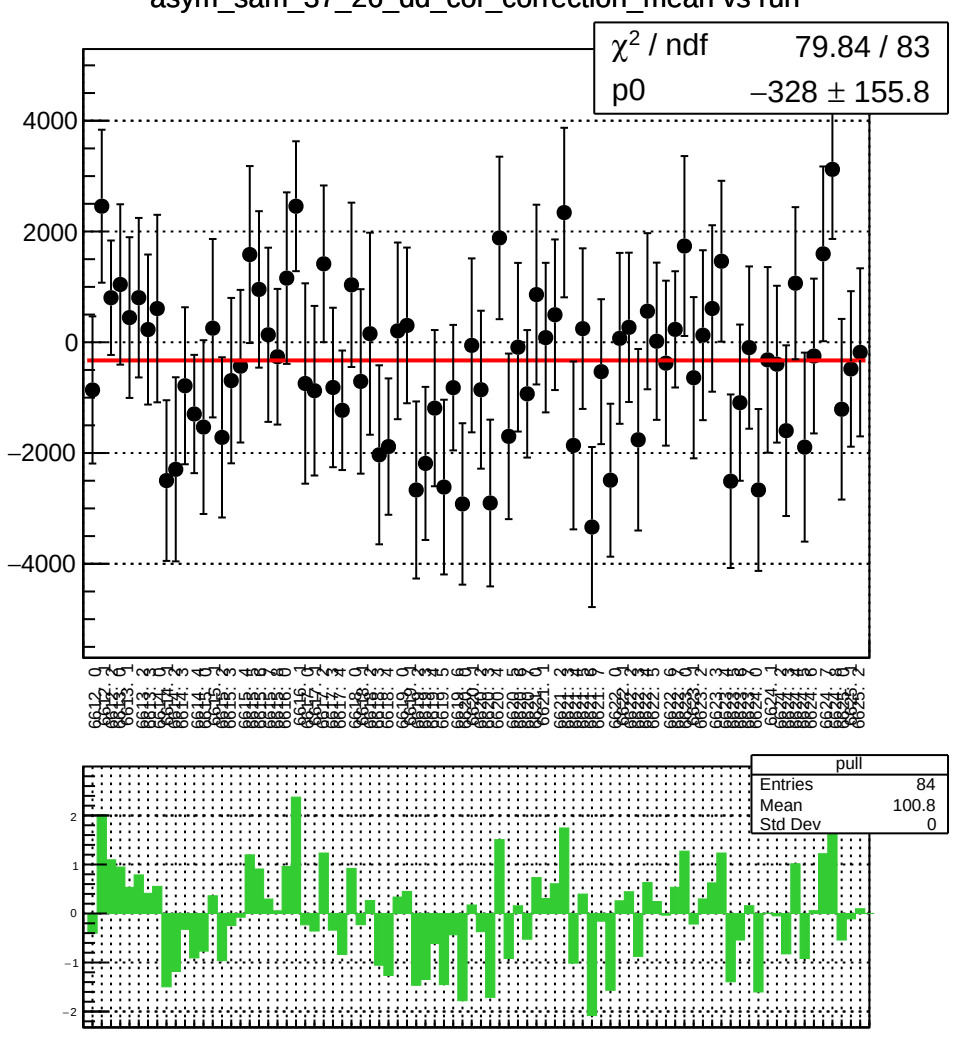

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 79.84 / 83
p0 −328 ± 155.8
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 100.8
Std Dev 0
2
1
0
−1
−2

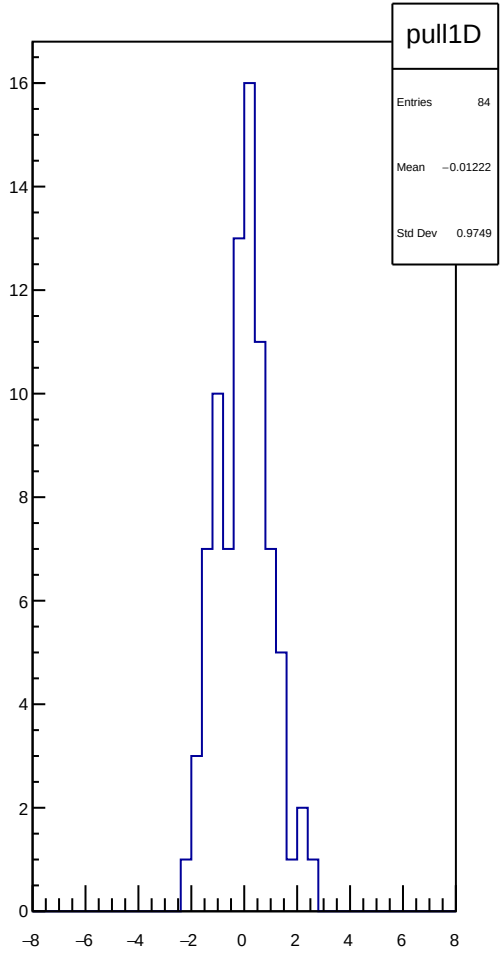

pull1D
Entries 84
Mean −0.01221
Std Dev 0.9748
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

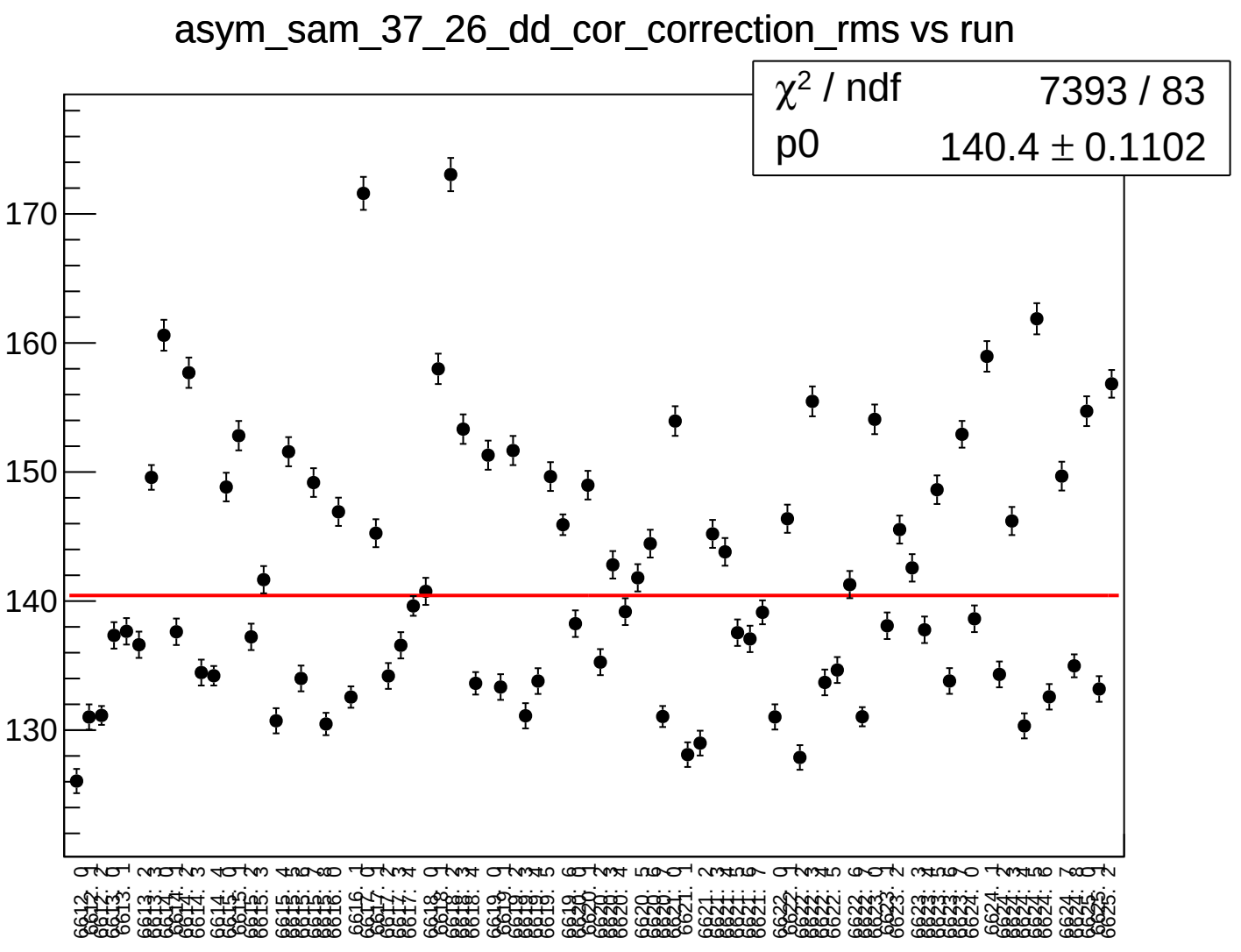

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 7392 / 83
p0 140.4 ± 0.1102
170
160
150
140
130

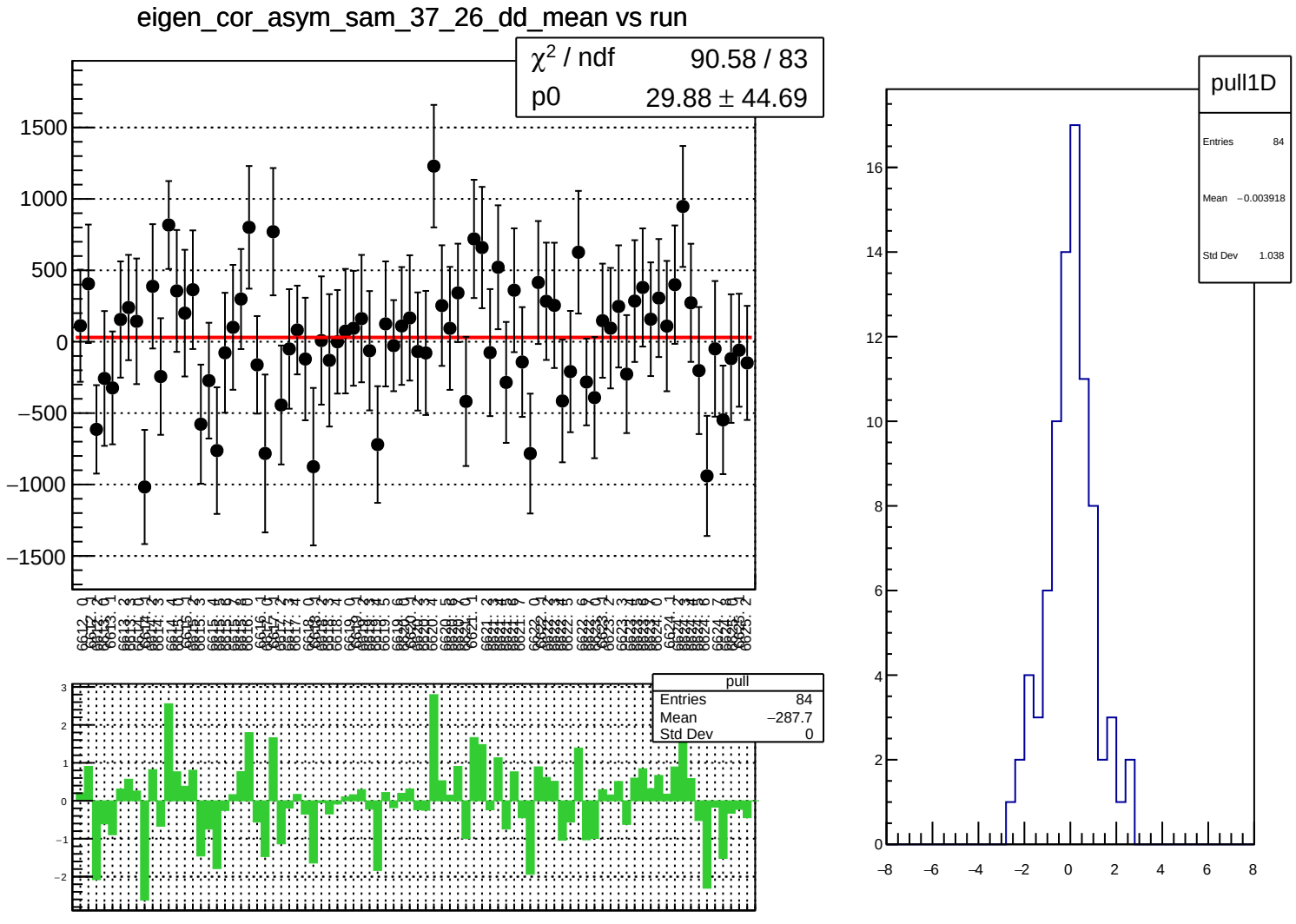

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 90.58 / 83
p0 29.88 ± 44.69
pull
Entries 84
Mean −287.7
Std Dev 0
pull1D
Entries 84
Mean −0.003918
Std Dev 1.038

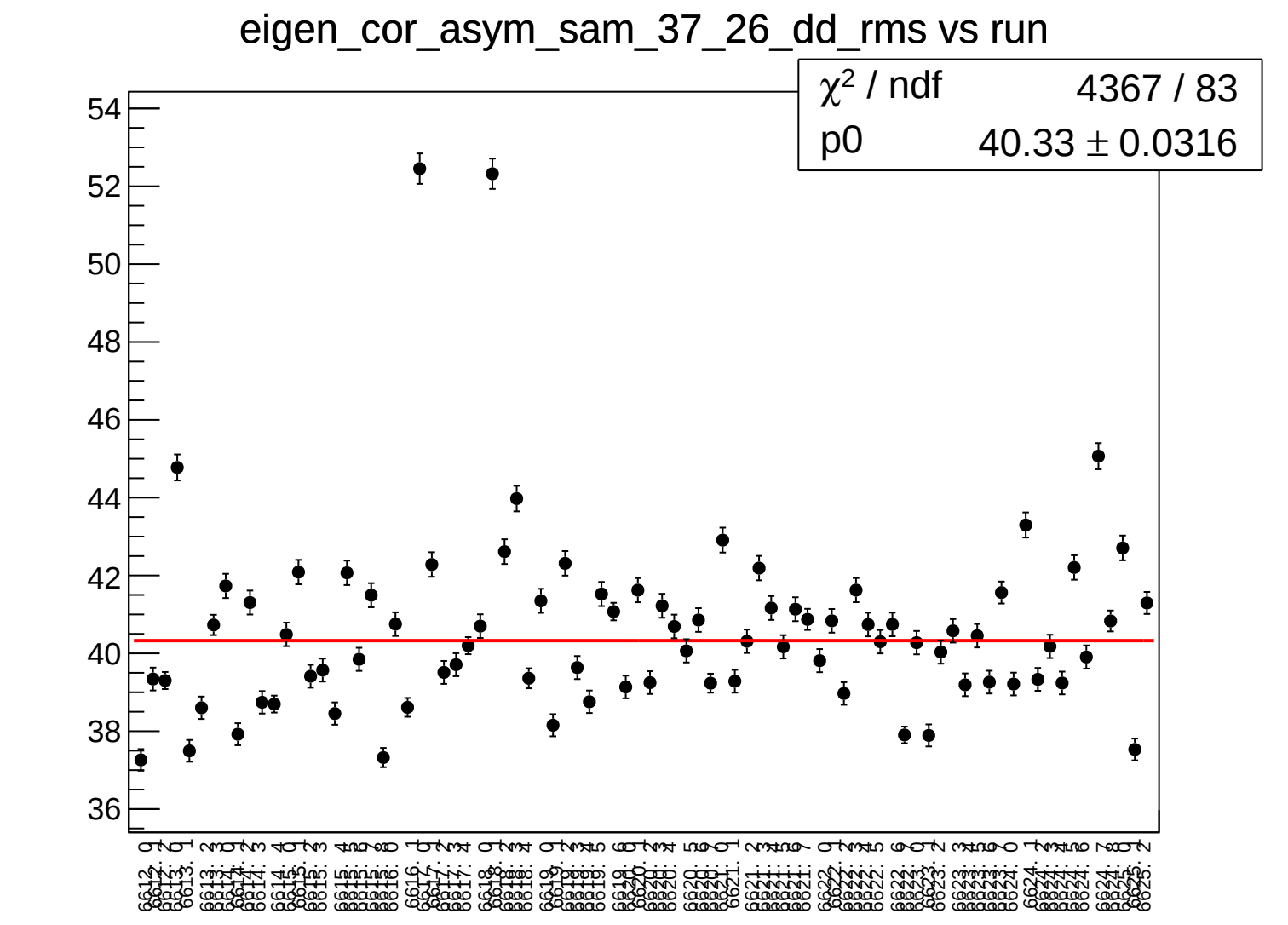

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 4367 / 83
p0 40.33 ± 0.0316
54
52
50
48
46
44
42
40
38
36

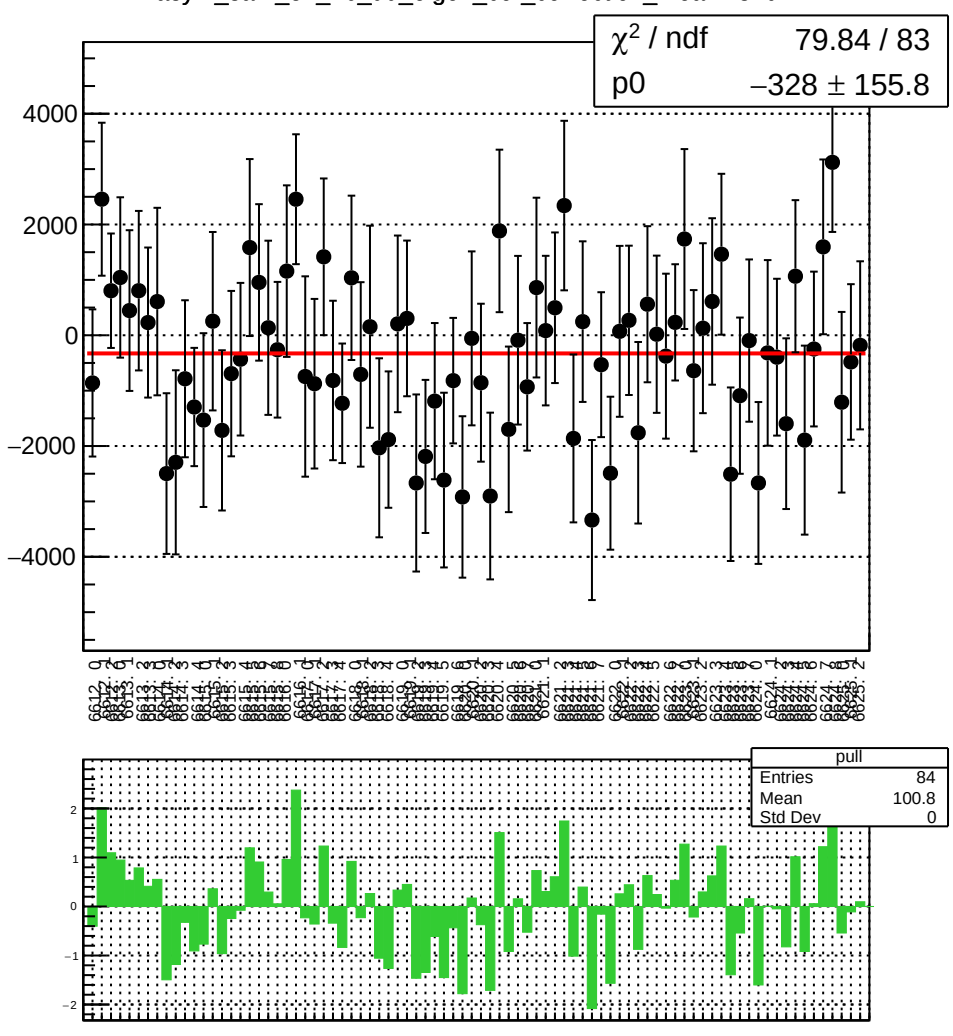

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 79.84 / 83
p0 −328 ± 155.8
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 100.8
Std Dev 0
2
1
0
−1
−2

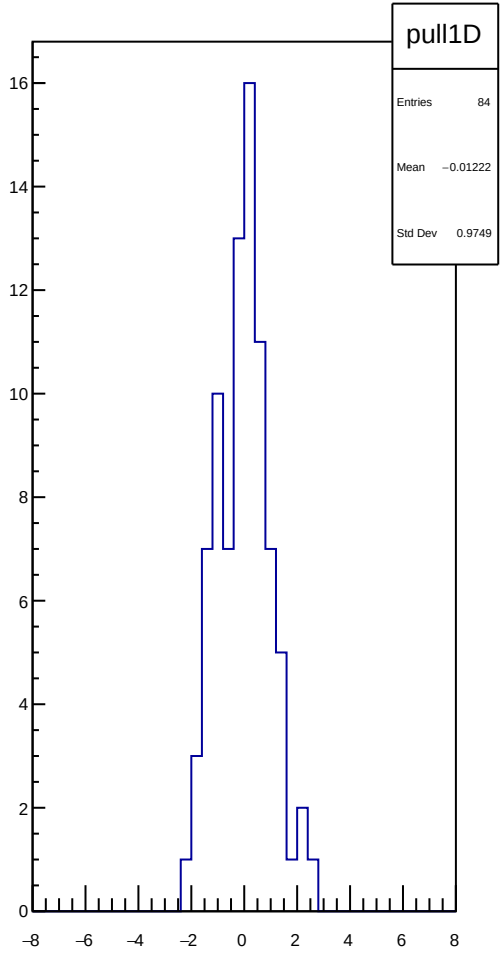

pull1D
Entries 84
Mean −0.01222
Std Dev 0.9749
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

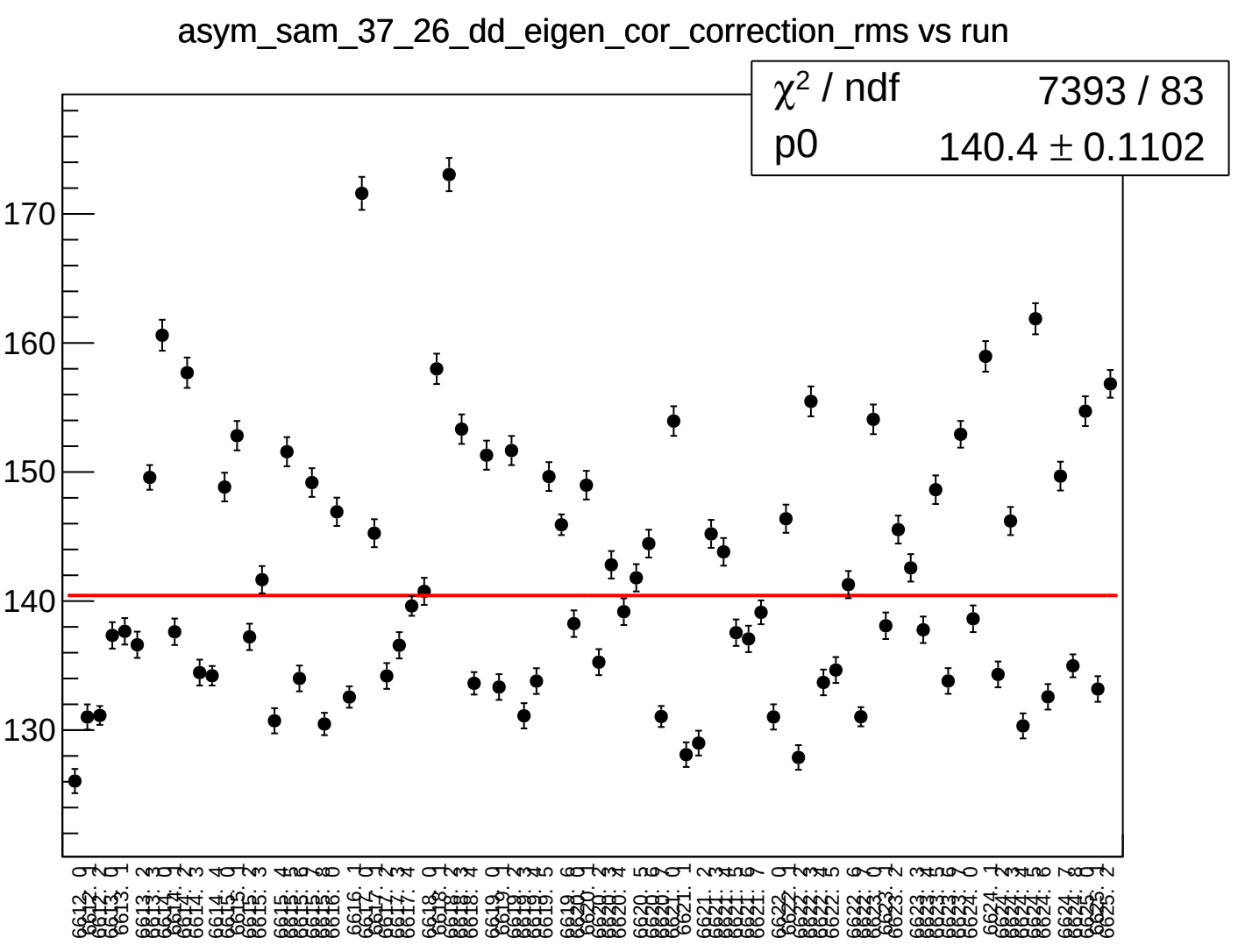

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 7393 / 83
p0 140.4 ± 0.1102
170
160
150
140
130

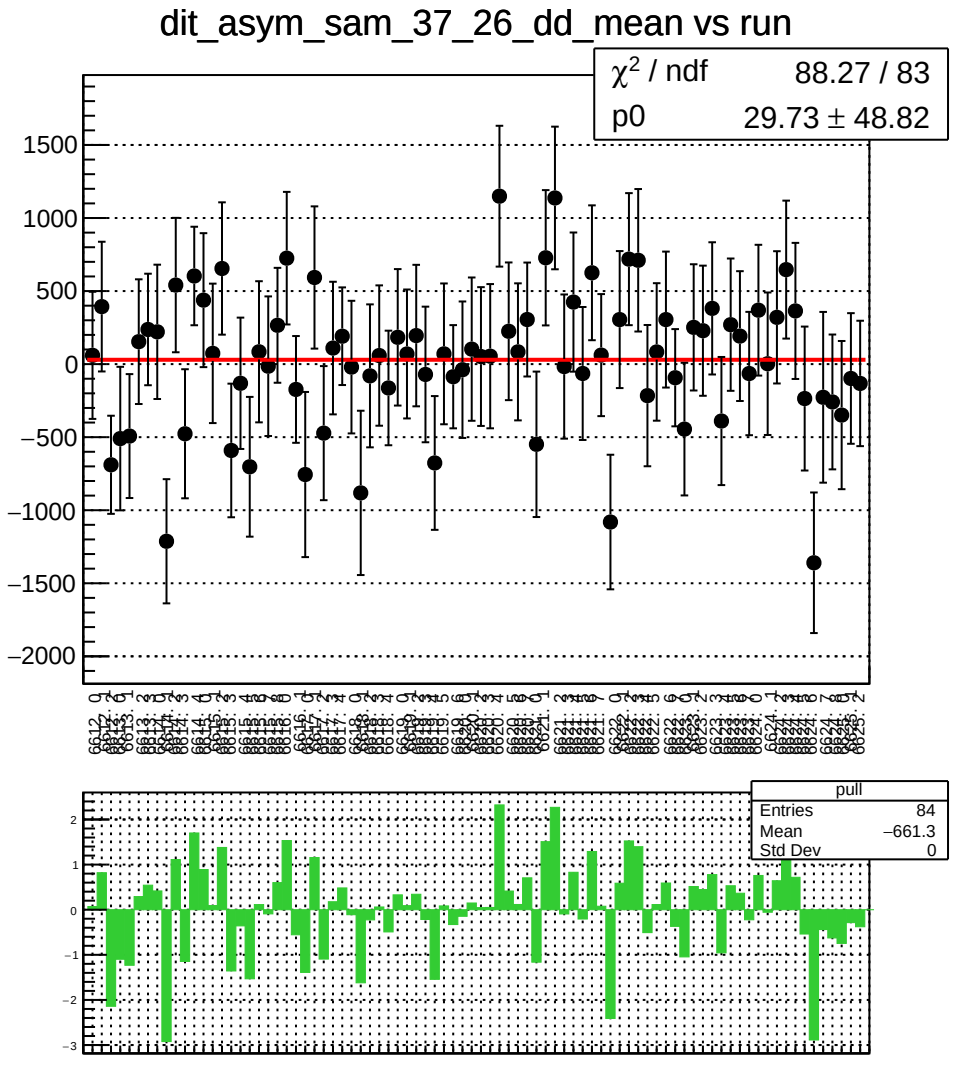

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 90.58 / 83
p0 29.88 ± 44.69
pull
Entries 84
Mean −287.7
Std Dev 0
pull1D
Entries 84
Mean −0.003918
Std Dev 1.038

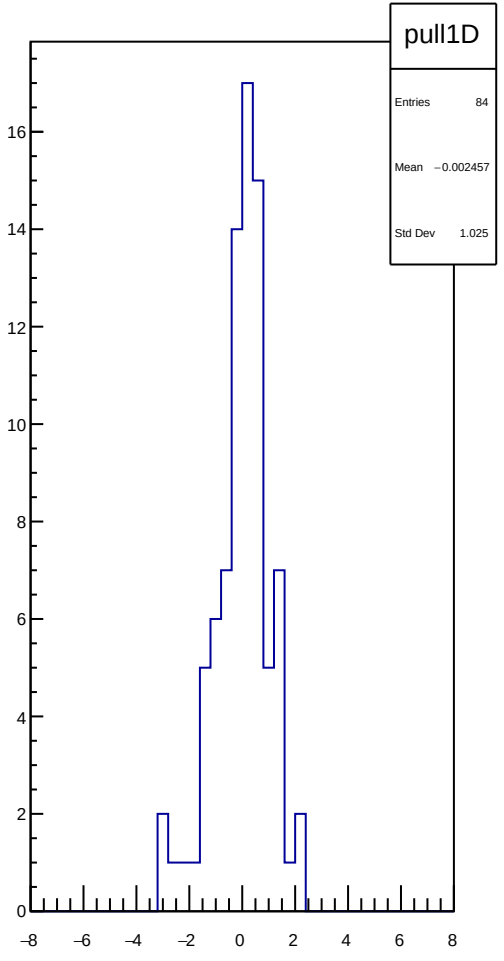

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 4367 / 83
p0 40.33 ± 0.0316
54
52
50
48
46
44
42
40
38
36

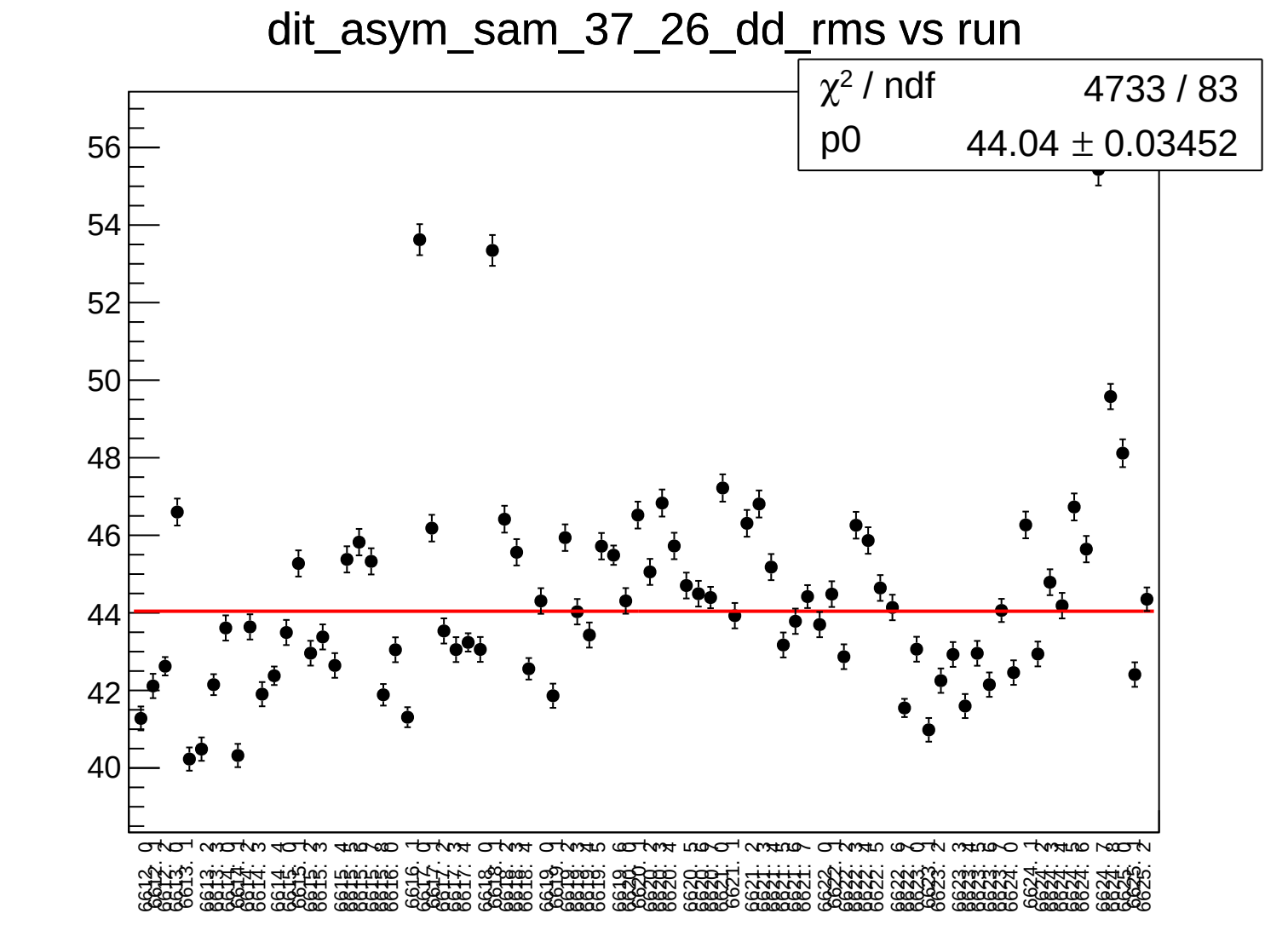

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.84 / 83
p0 −328 ± 155.8
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 100.8
Std Dev 0
2
1
0
−1
−2

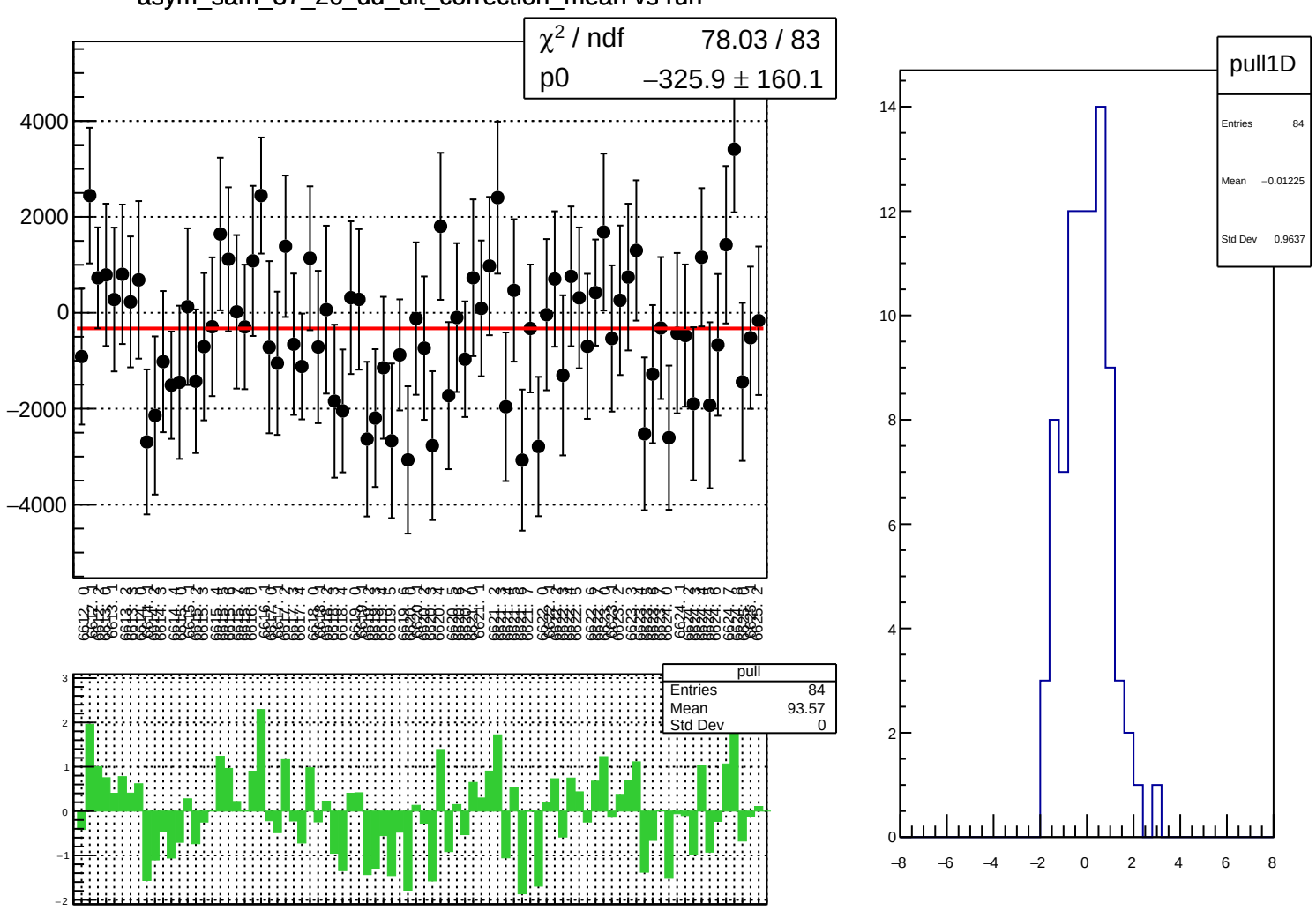

pull1D
Entries 84
Mean −0.01222
Std Dev 0.9749
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

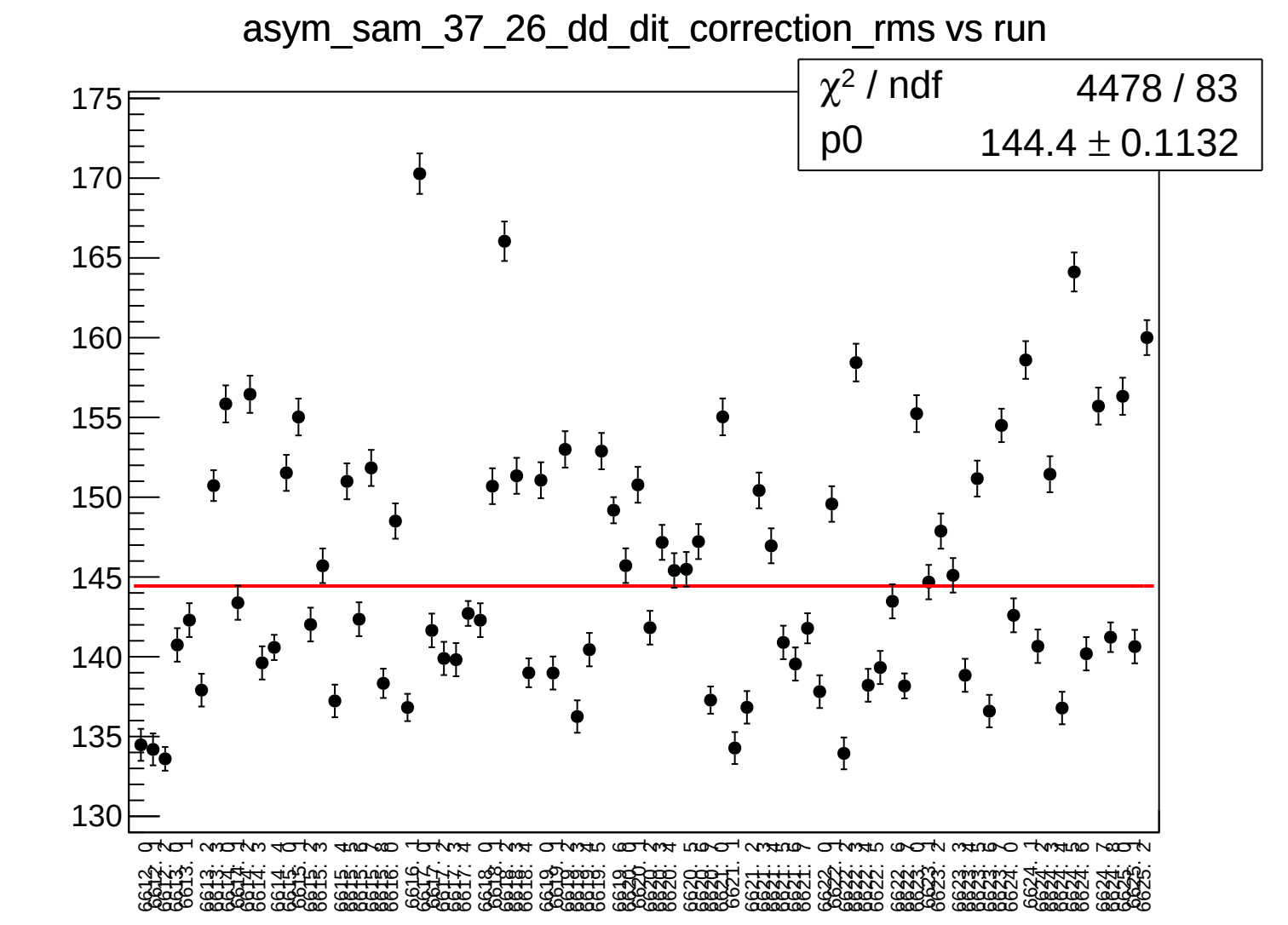

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 7393 / 83
p0 140.4 ± 0.1102
170
160
150
140
130

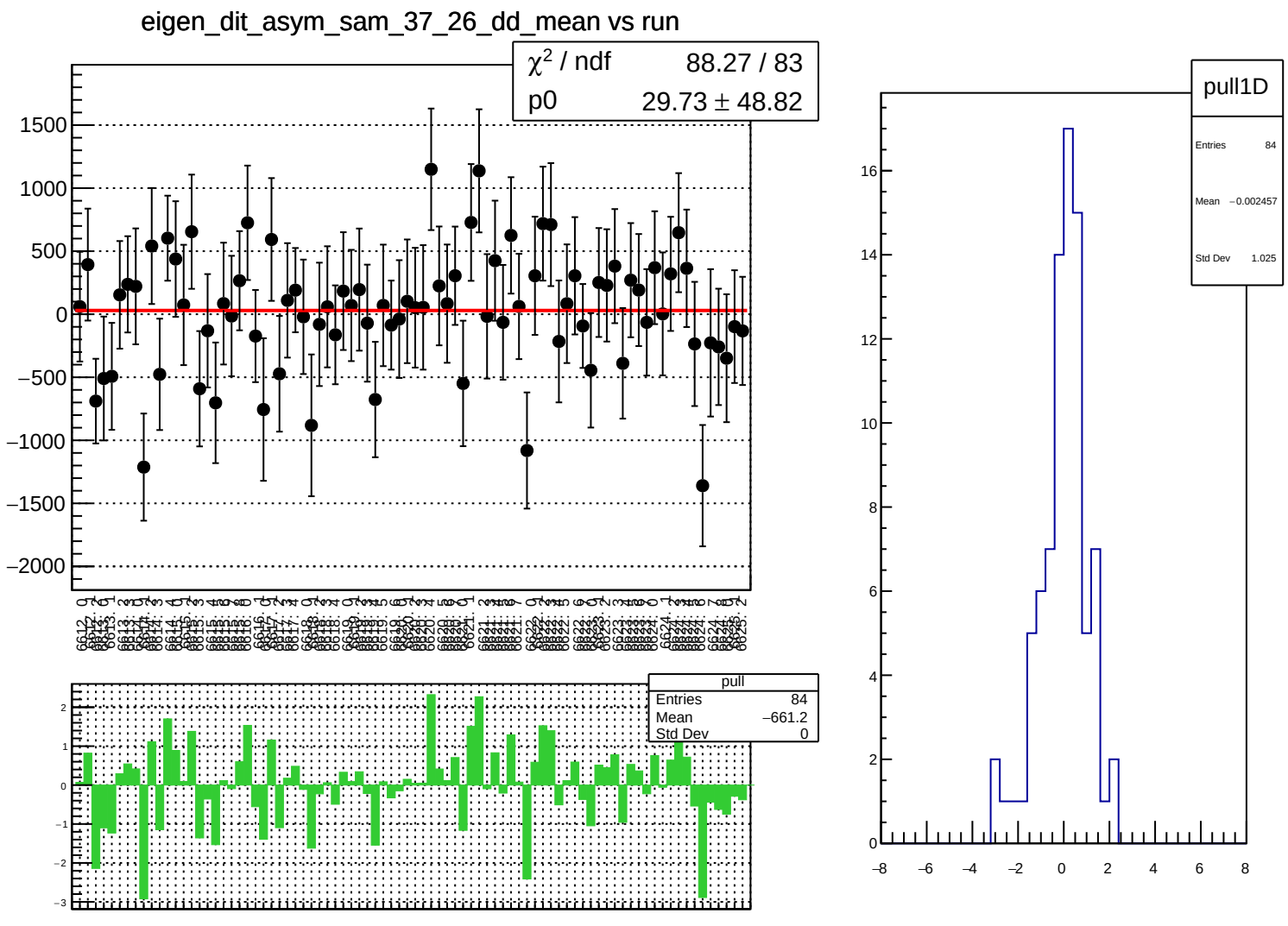

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 88.27 / 83
p0 29.73 ± 48.82
pull
Entries 84
Mean −661.3
Std Dev 0

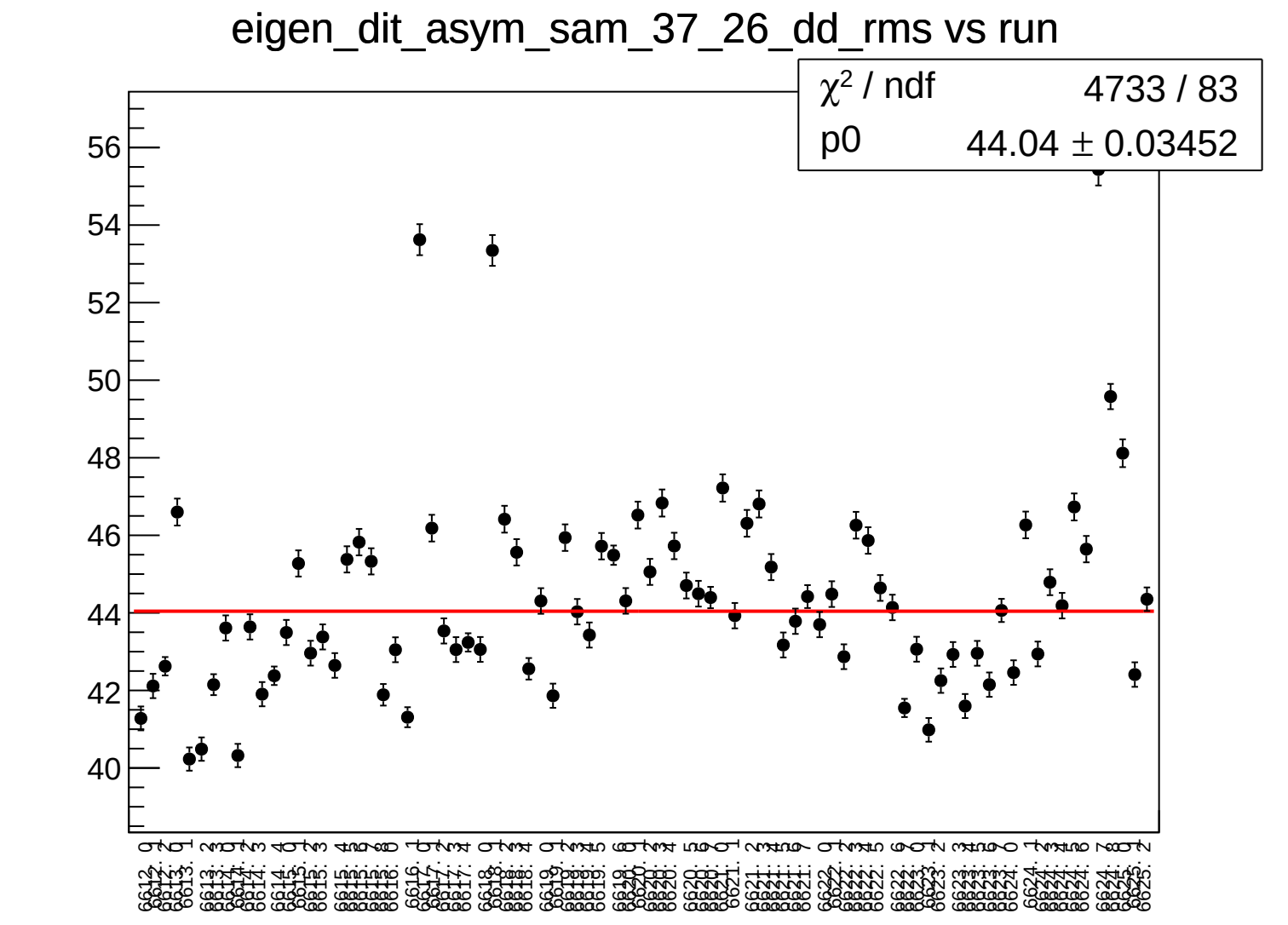

pull1D
Entries 84
Mean −0.002457
Std Dev 1.025

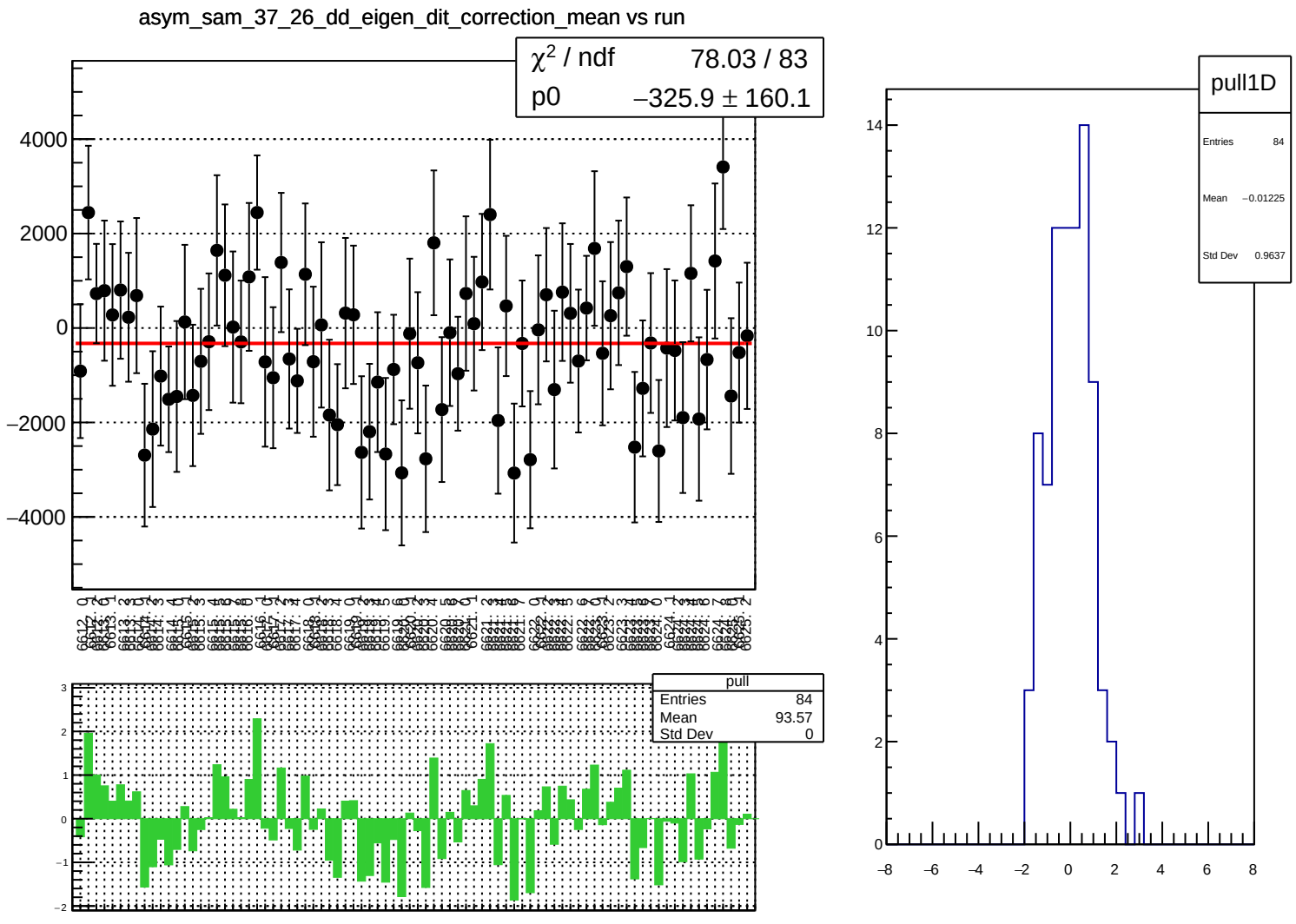

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 4733 / 83
p0 44.04 ± 0.03452
56
54
52
50
48
46
44
42
40

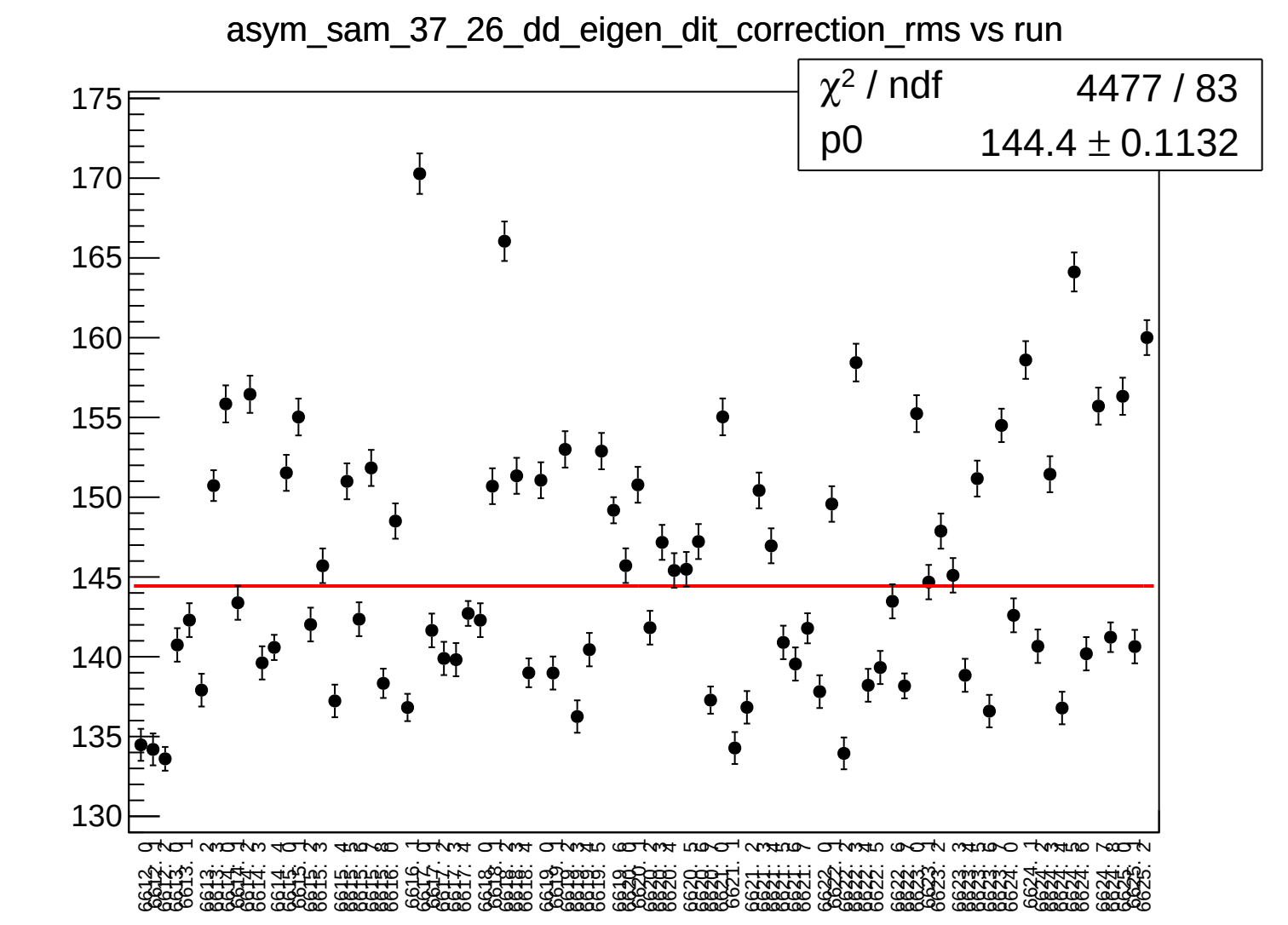

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 78.03 / 83
p0 −325.9 ± 160.1
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 93.57
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01225
Std Dev 0.9637
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

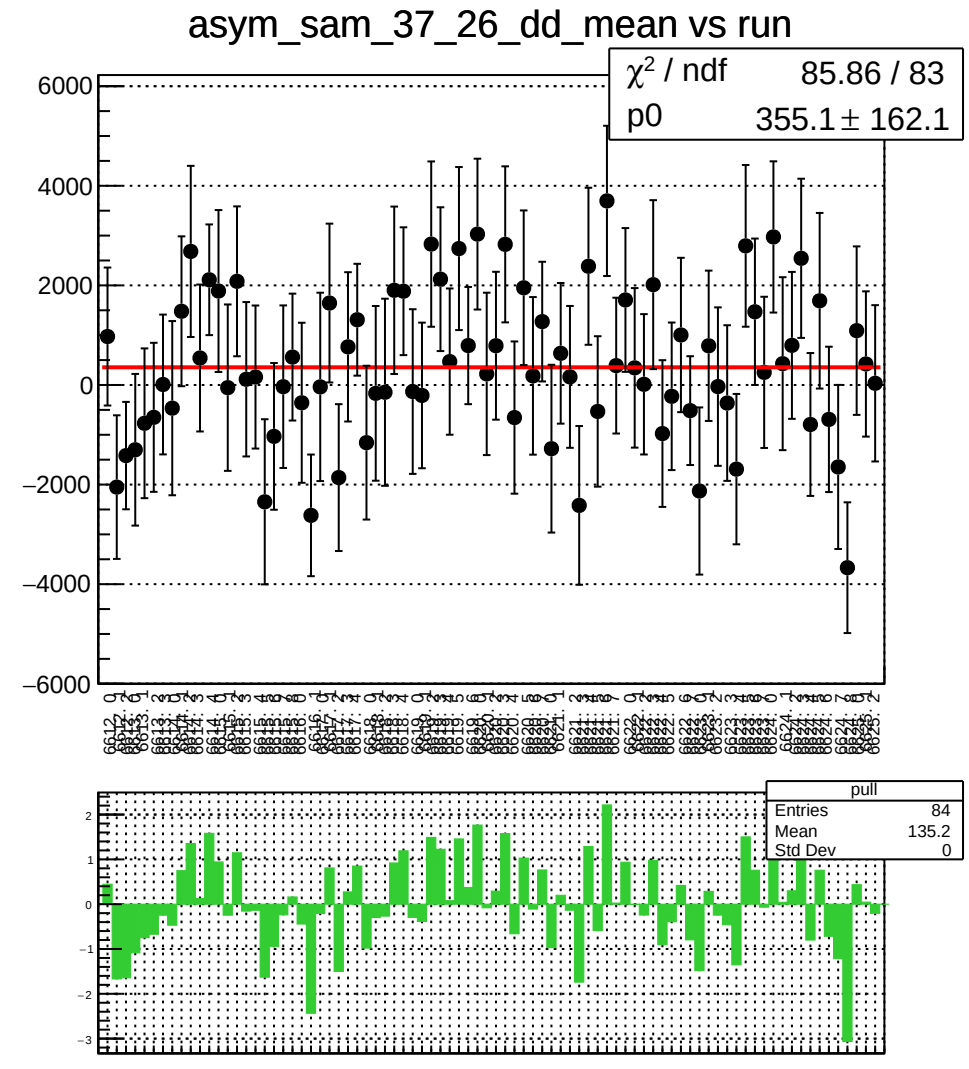

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 4478 / 83
p0 144.4 ± 0.1132
175
170
165
160
155
150
145
140
135
130

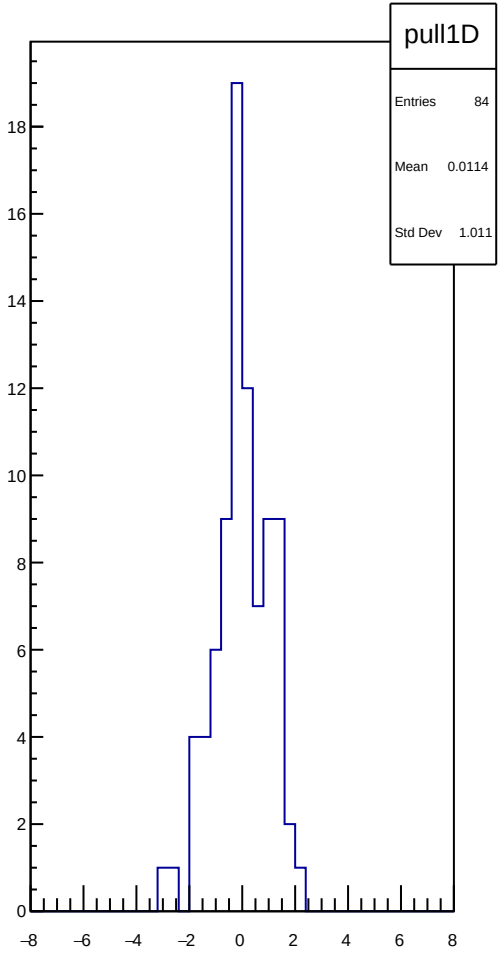

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 88.27 / 83
p0 29.73 ± 48.82
pull
Entries 84
Mean −661.2
Std Dev 0
pull1D
Entries 84
Mean −0.002457
Std Dev 1.025

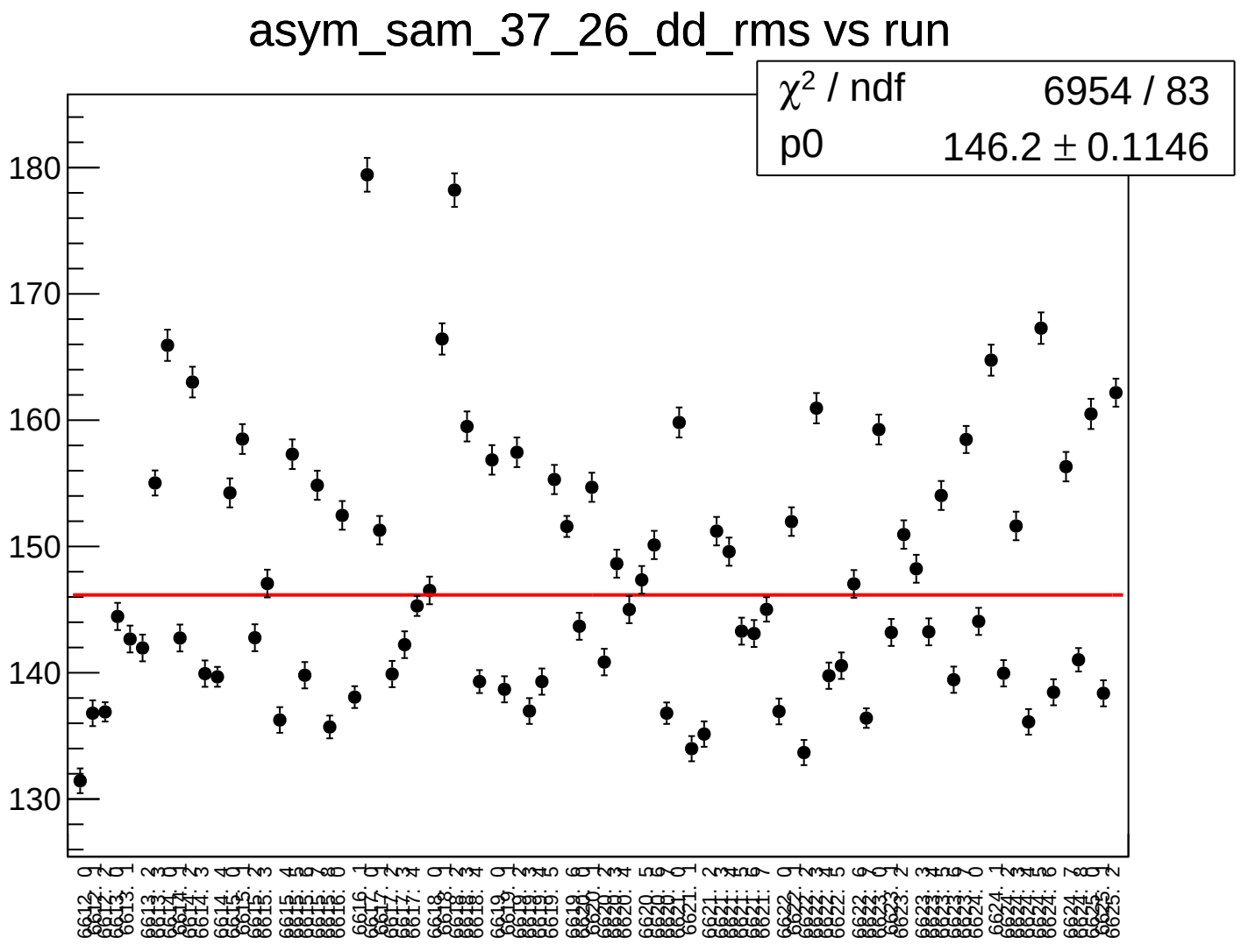

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 4733 / 83
p0 44.04 ± 0.03452
56
54
52
50
48
46
44
42
40

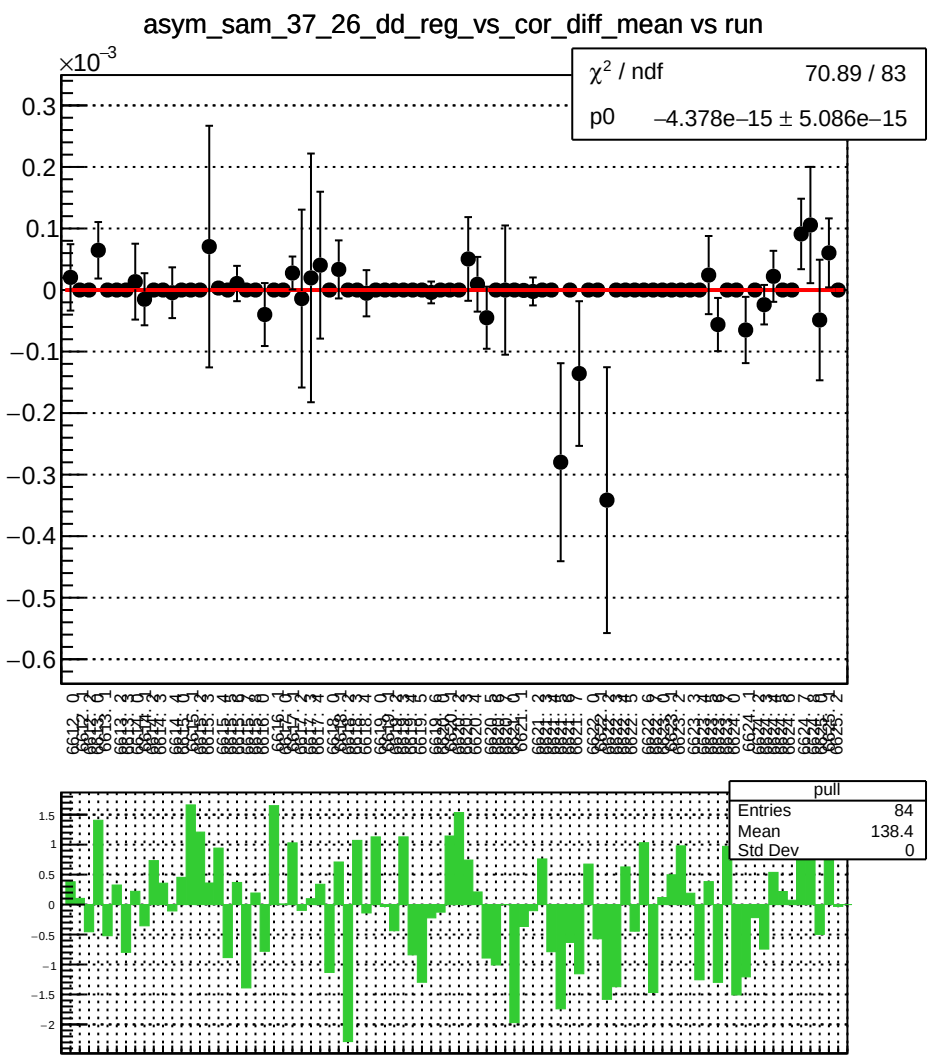

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.03 / 83
p0 −325.9 ± 160.1
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 93.57
Std Dev 0
pull1D
Entries 84
Mean −0.01225
Std Dev 0.9637
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

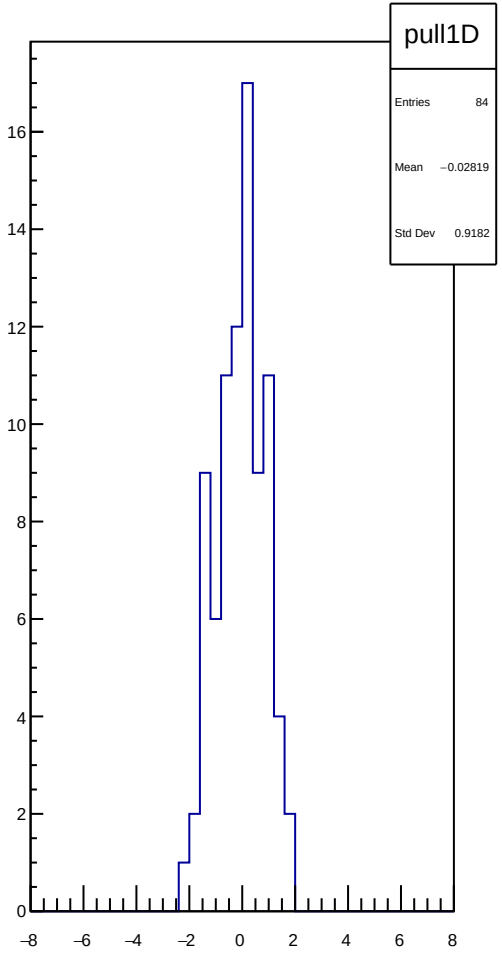

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 4477 / 83
p0 144.4 ± 0.1132
175
170
165
160
155
150
145
140
135
130

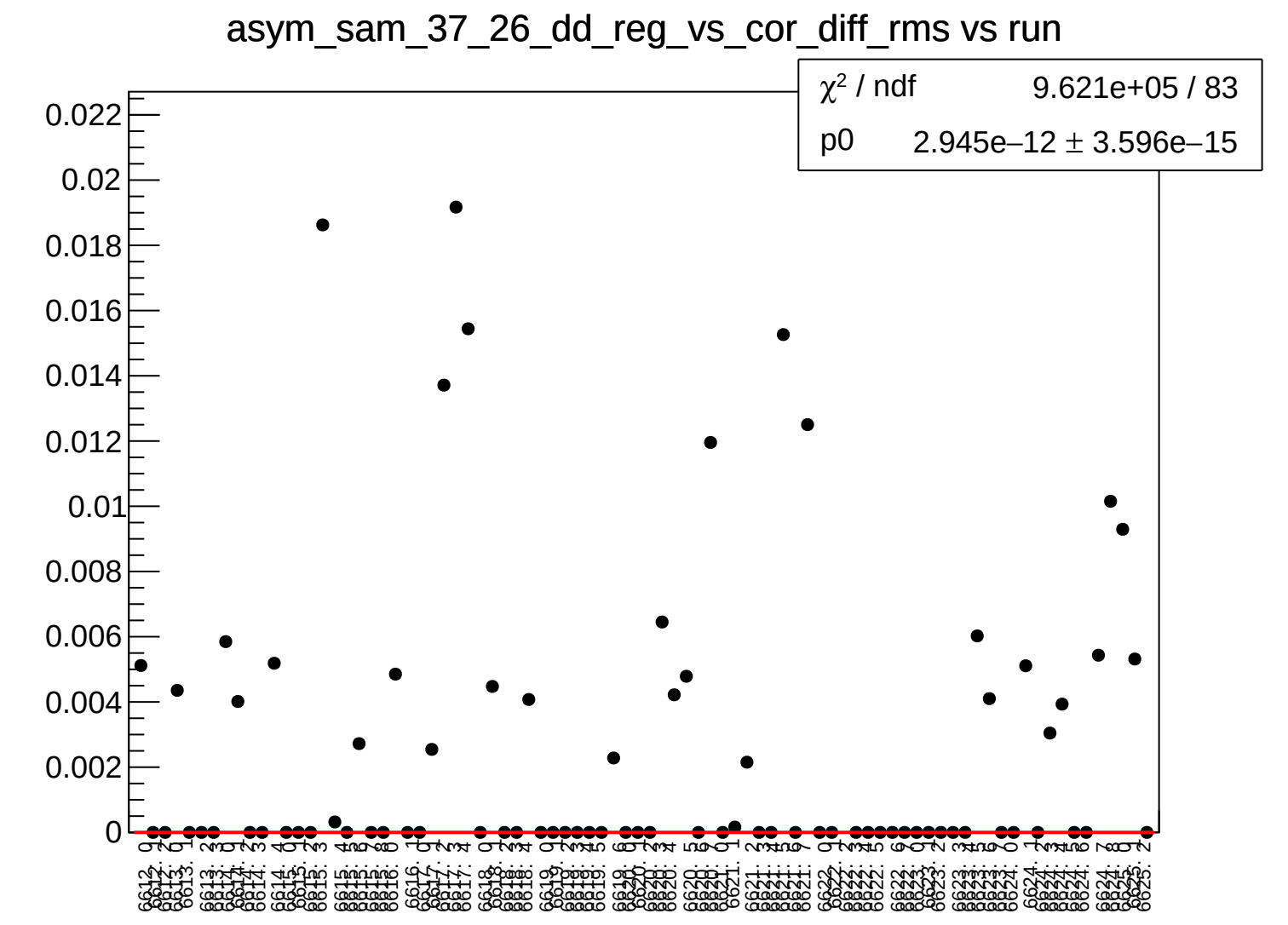

asym_sam_37_26_dd_mean vs run
χ^2 / ndf 85.86 / 83
p0 355.1 ± 162.1
pull
Entries 84
Mean 135.2
Std Dev 0

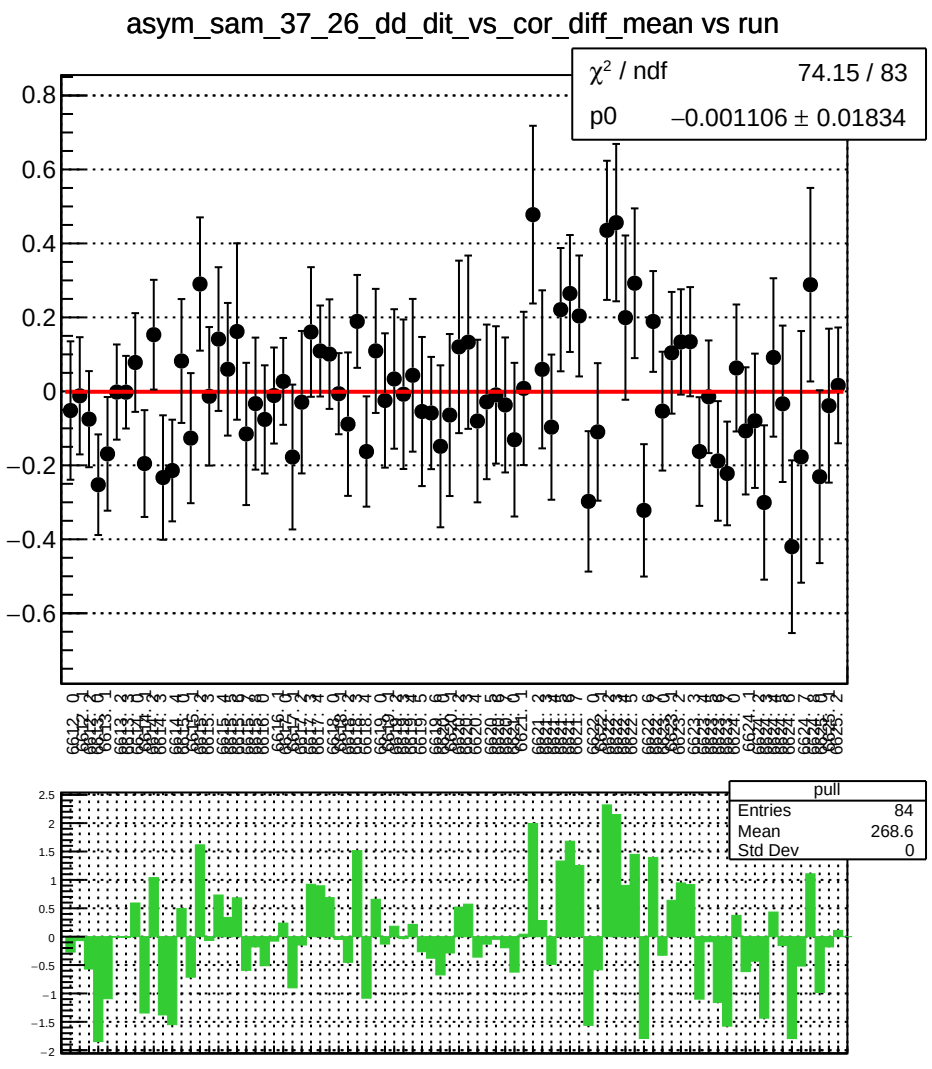

pull1D
Entries 84
Mean 0.0114
Std Dev 1.011

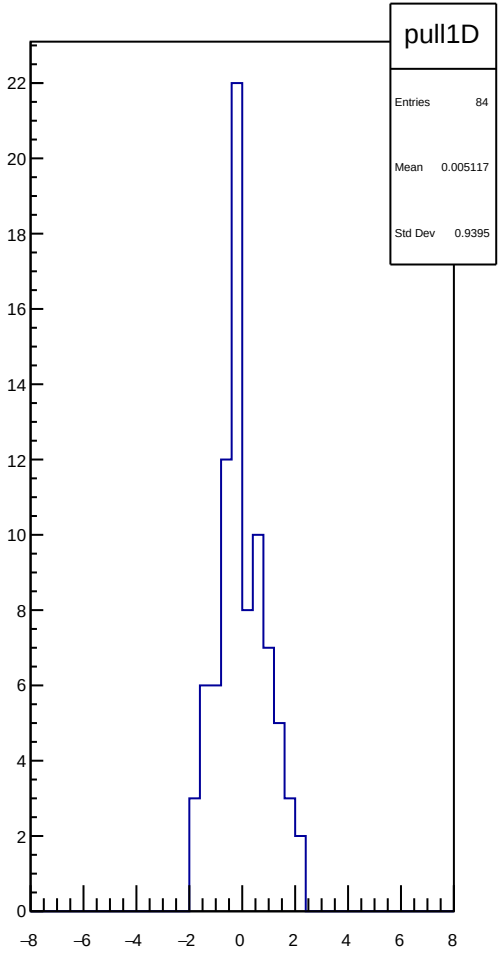

asym_sam_37_26_dd_rms vs run
χ² / ndf 6954 / 83
p0 146.2 ± 0.1146
180
170
160
150
140
130

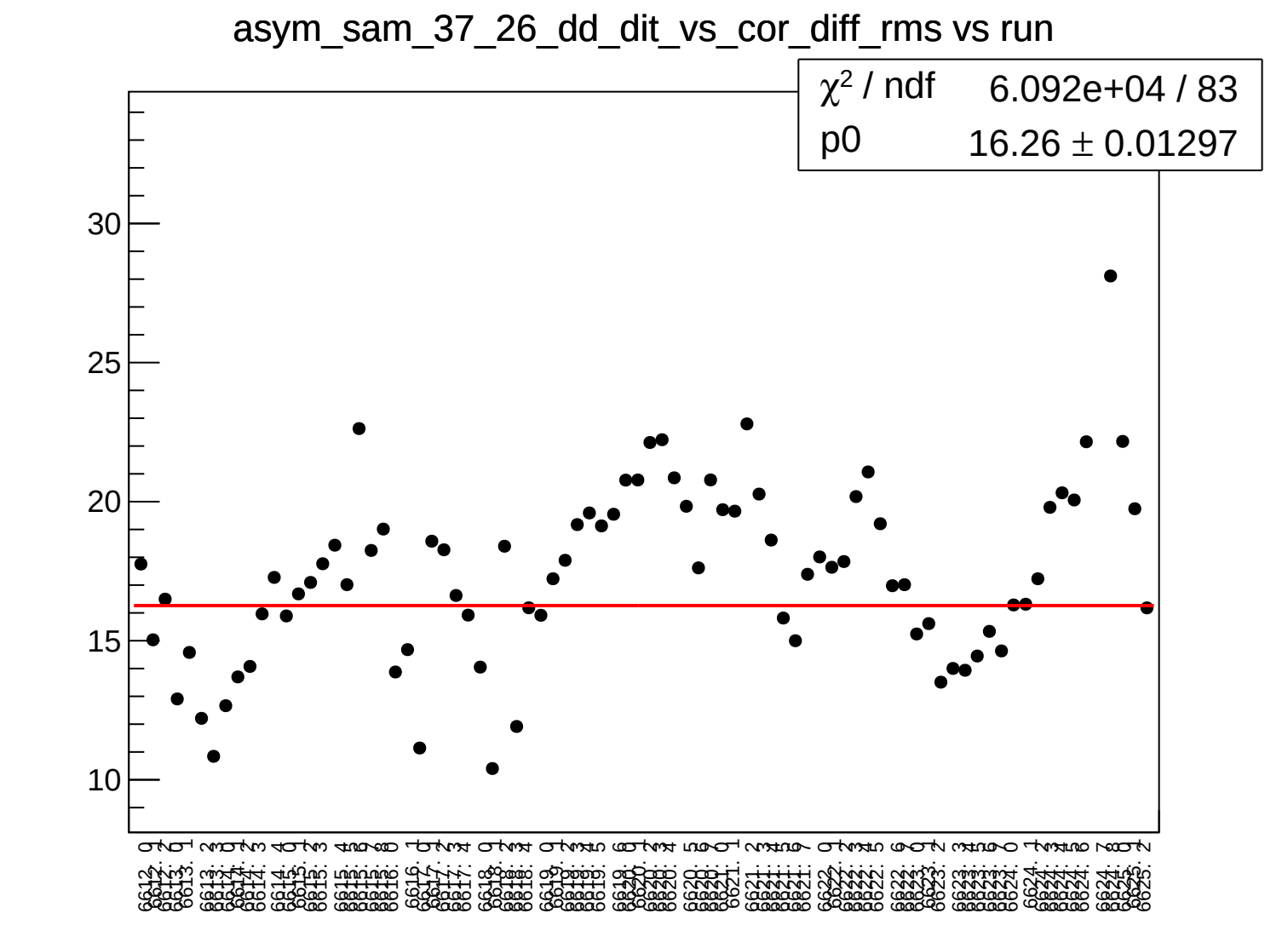

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 70.89 / 83
p0 −4.378e−15 ± 5.086e−15
pull
Entries 84
Mean 138.4
Std Dev 0

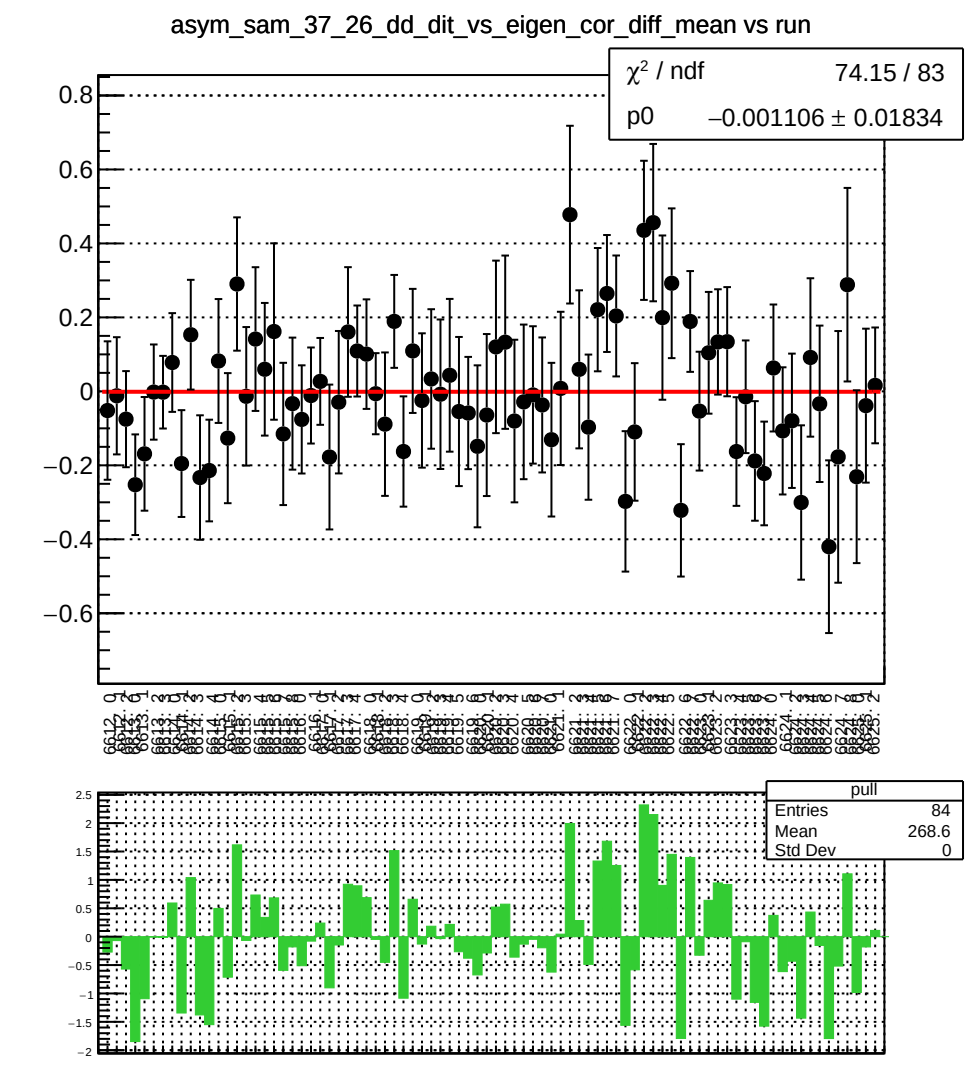

pull1D
Entries 84
Mean −0.02819
Std Dev 0.9182

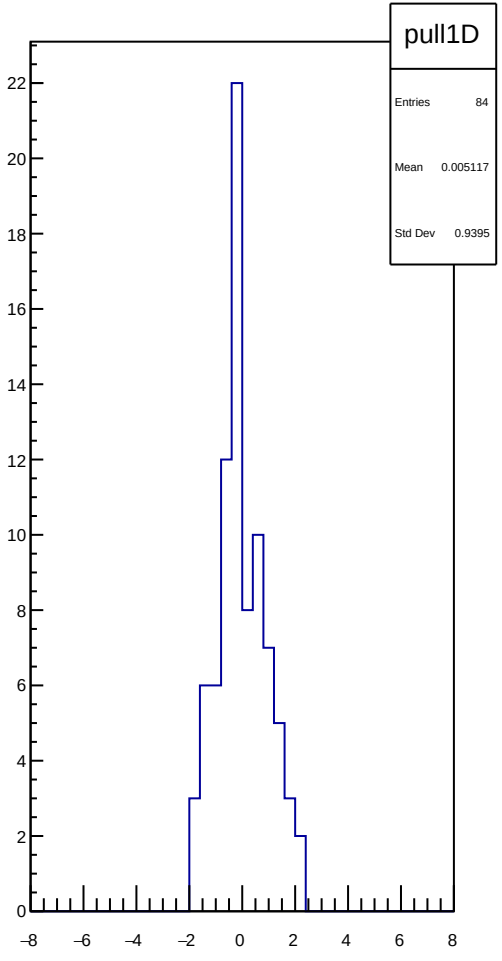

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.621e+05 / 83
p0 2.945e−12 ± 3.596e−15
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

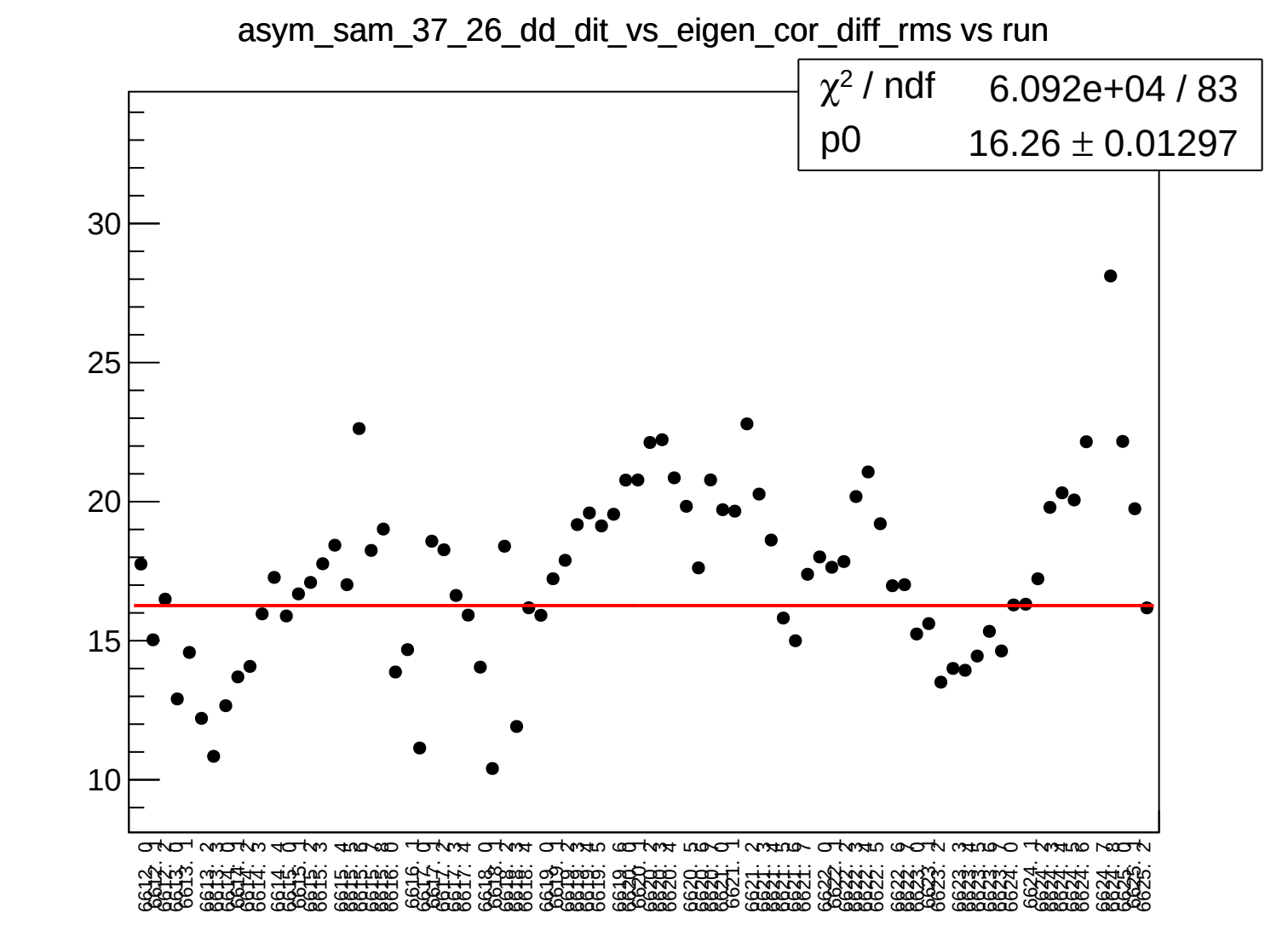

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.15 / 83
p0 −0.001106 ± 0.01834
pull
Entries 84
Mean 268.6
Std Dev 0

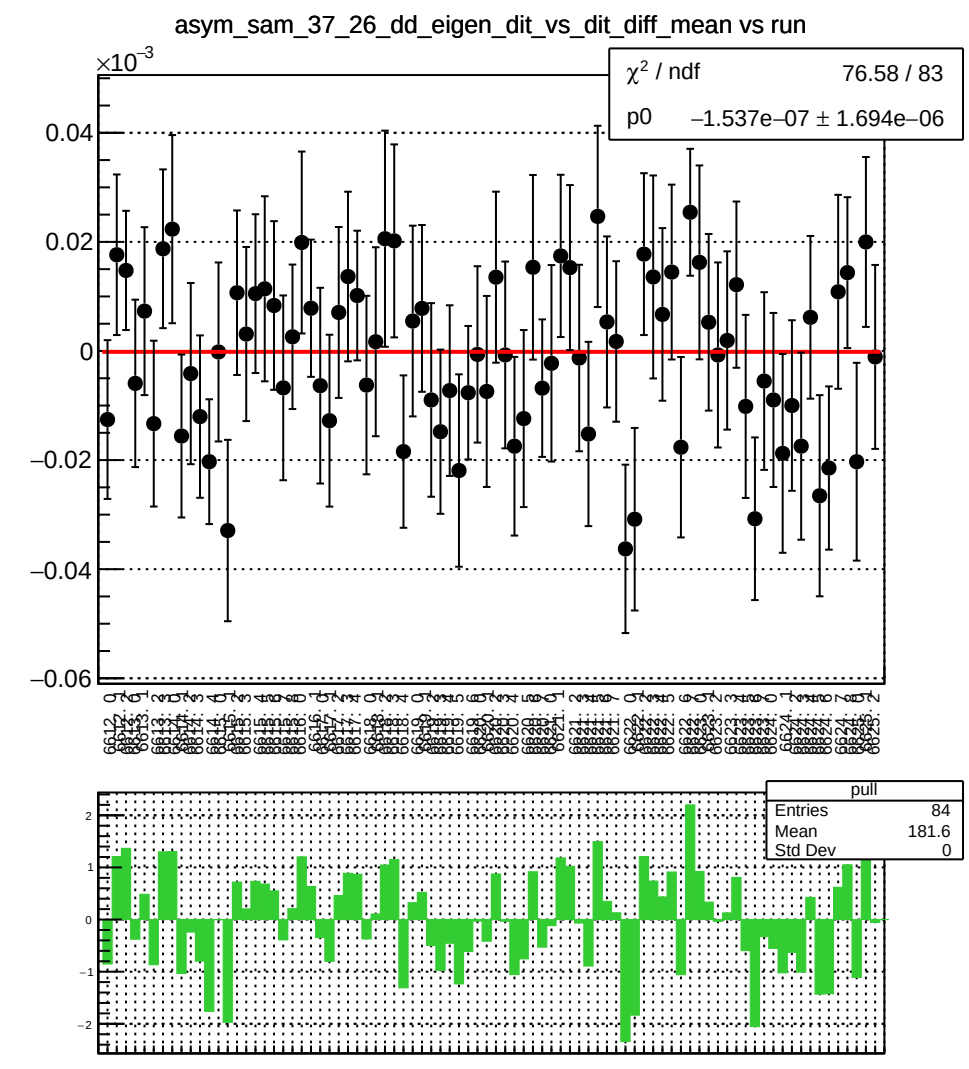

pull1D
Entries 84
Mean 0.005117
Std Dev 0.9395

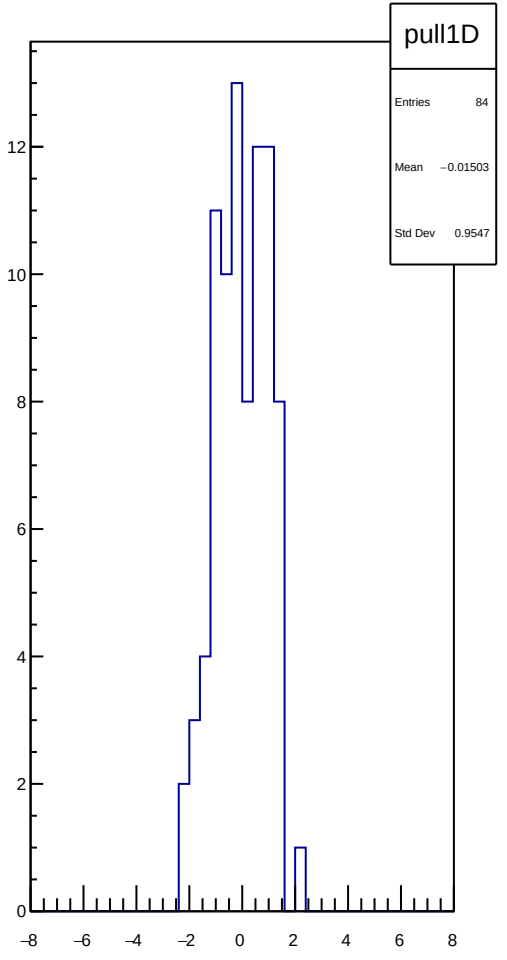

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.092e+04 / 83
p0 16.26 ± 0.01297
30
25
20
15
10

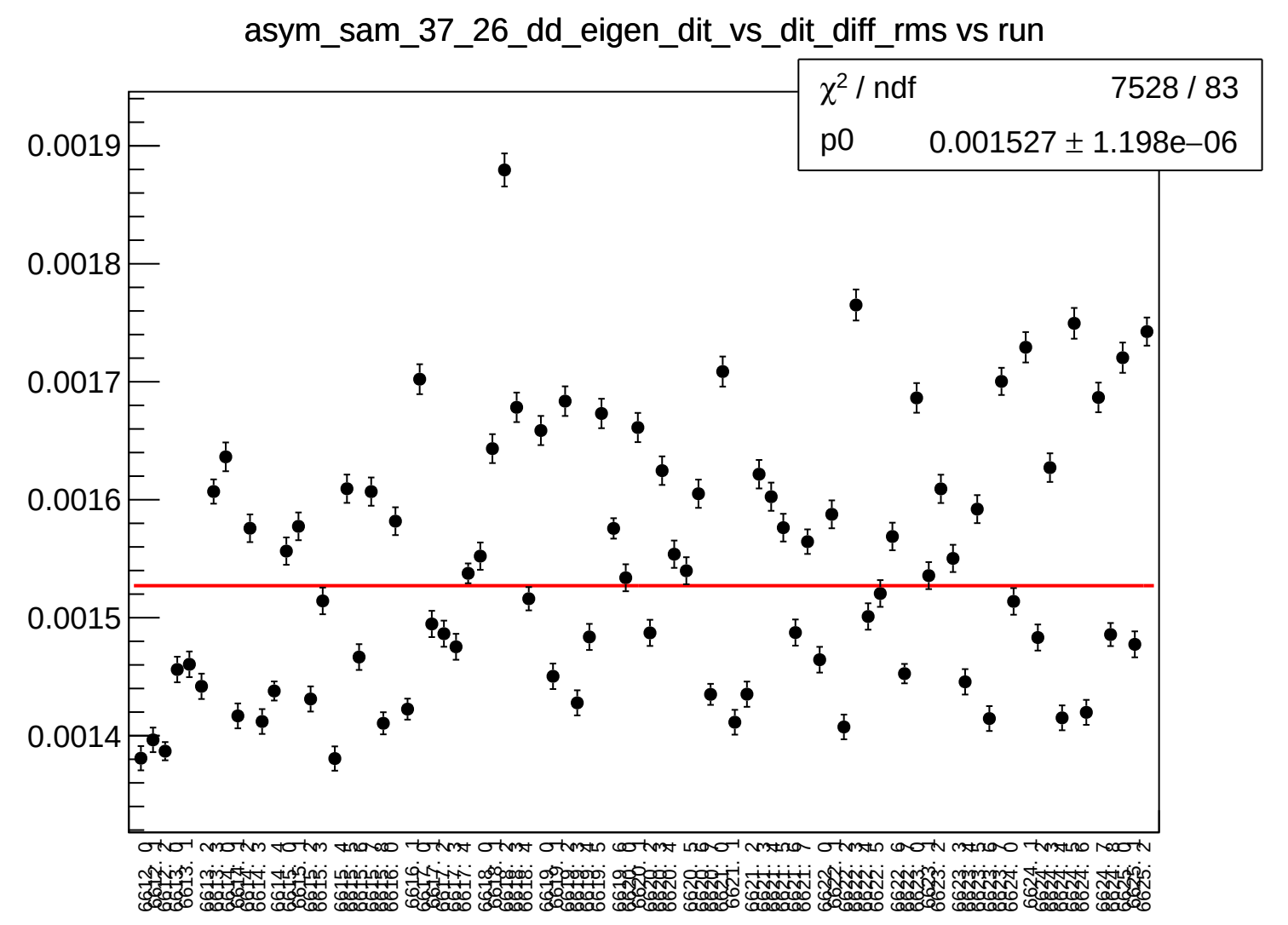

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.15 / 83
p0 −0.001106 ± 0.01834
pull
Entries 84
Mean 268.6
Std Dev 0

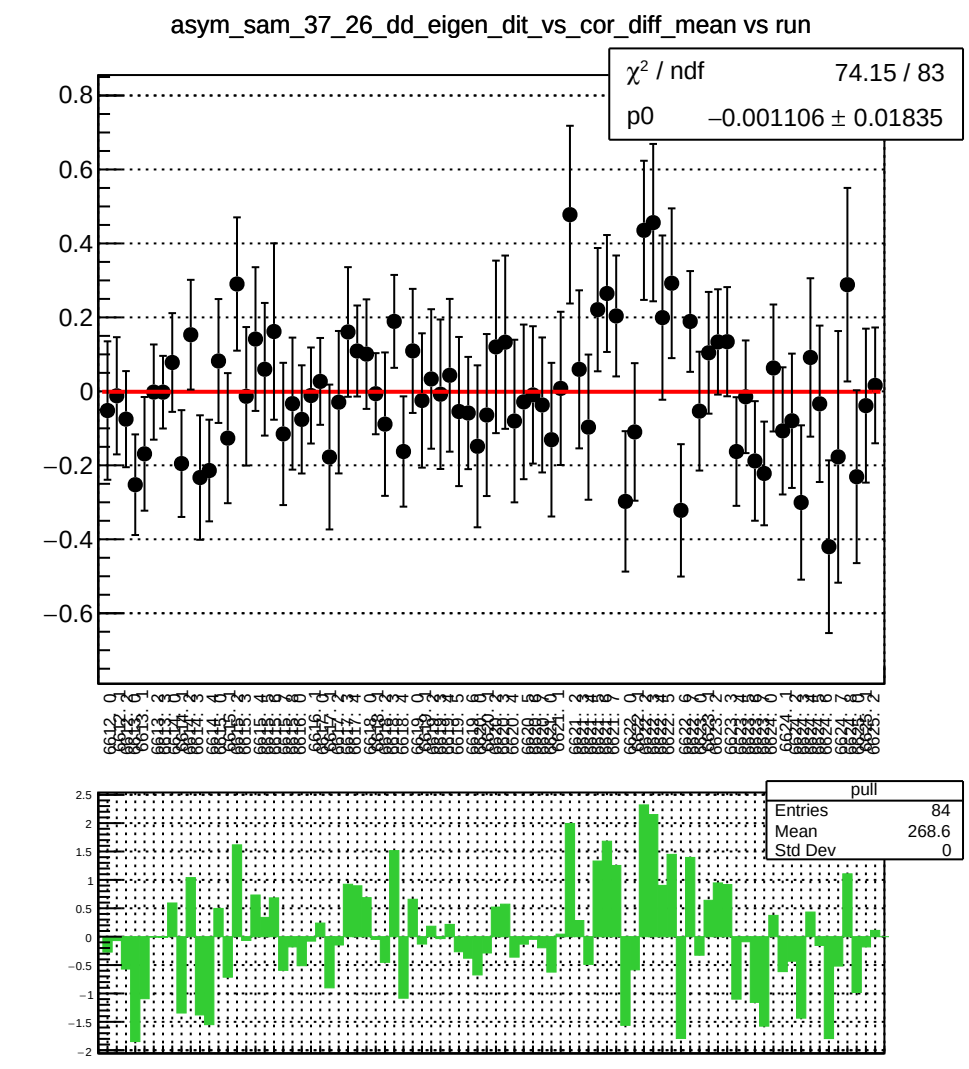

pull1D
Entries 84
Mean 0.005117
Std Dev 0.9395

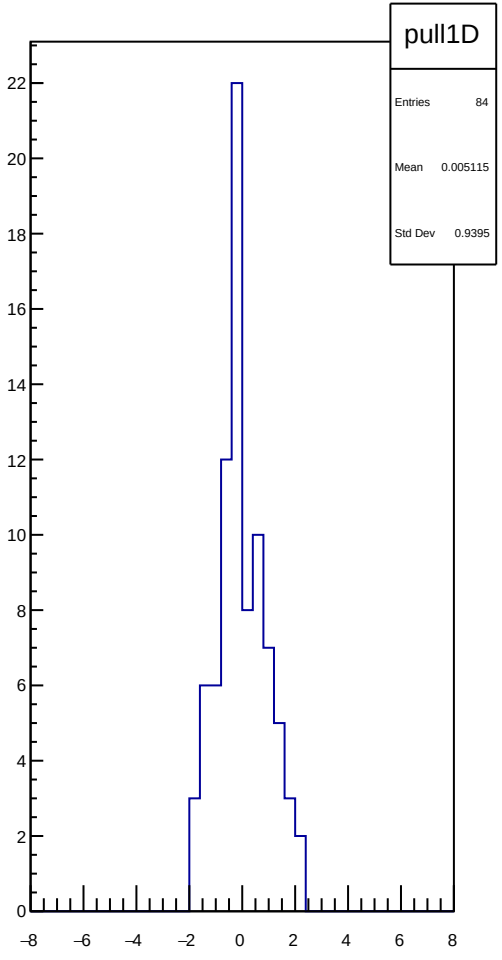

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.092e+04 / 83
p0 16.26 ± 0.01297
30
25
20
15
10

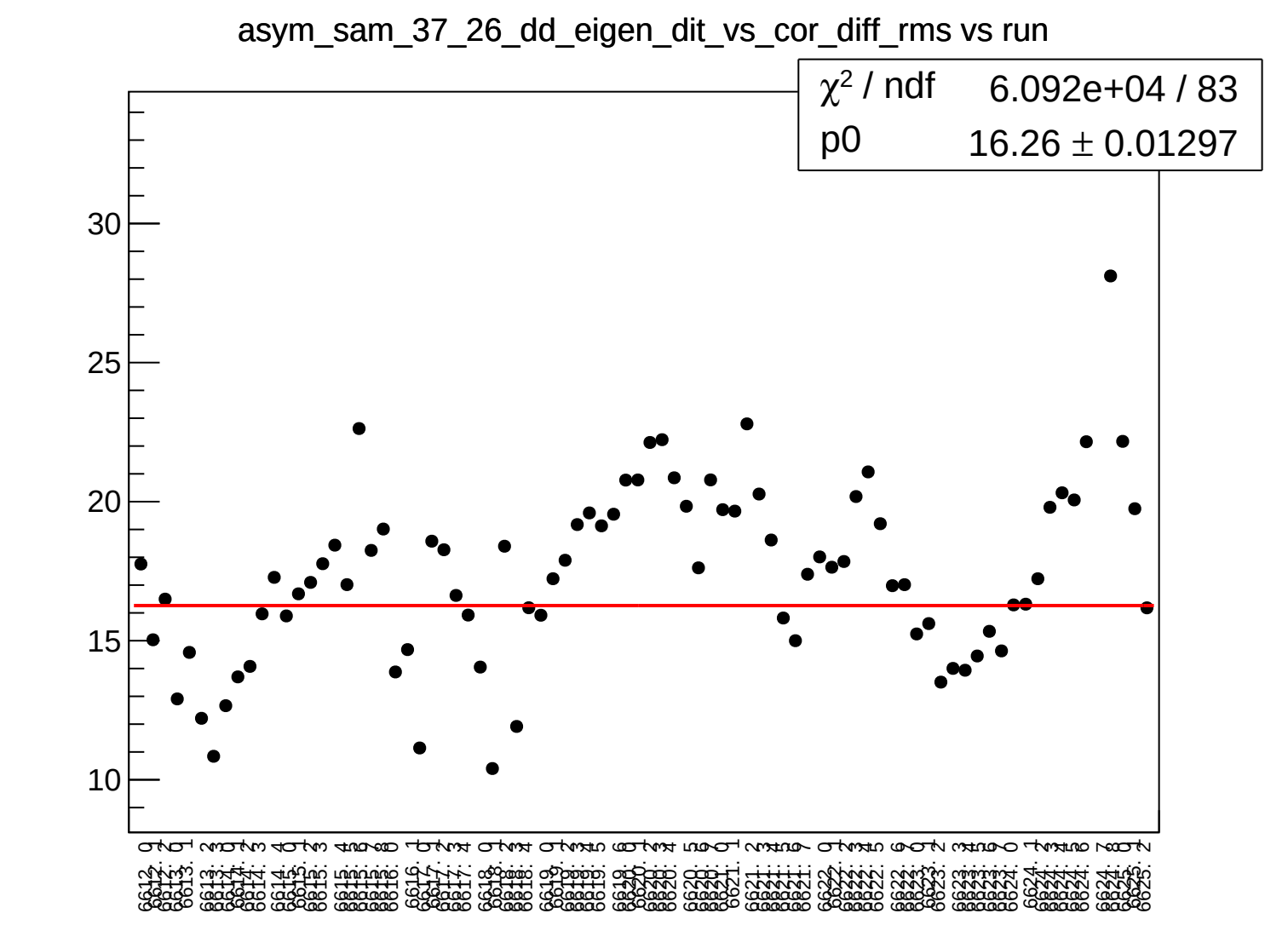

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.58 / 83
p0 −1.537e−07 ± 1.694e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 84
Mean 181.6
Std Dev 0
2
1
0
−1
−2

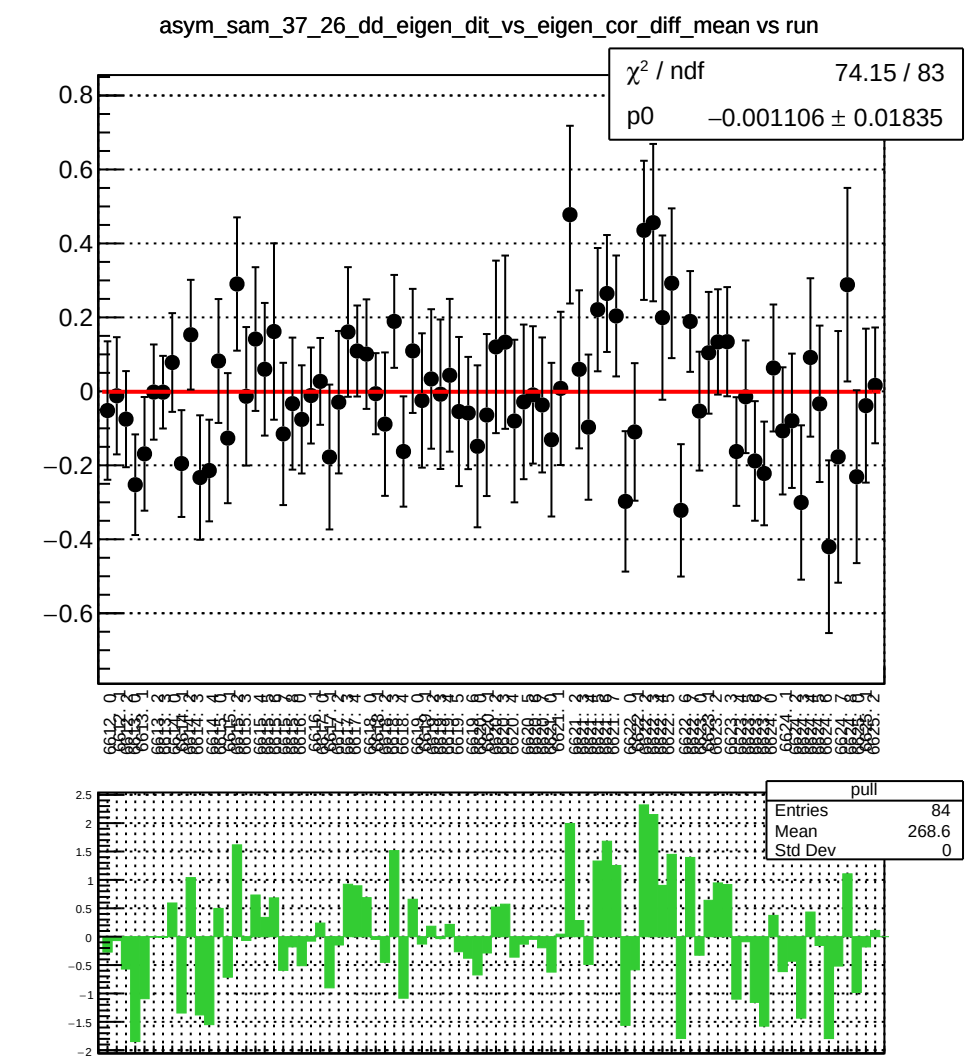

pull1D
Entries 84
Mean −0.01503
Std Dev 0.9547
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

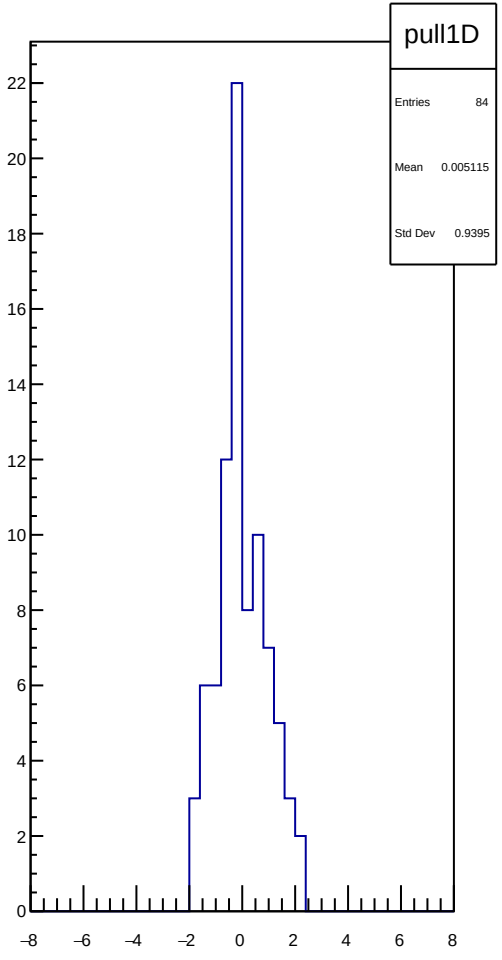

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7528 / 83
p0 0.001527 ± 1.198e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

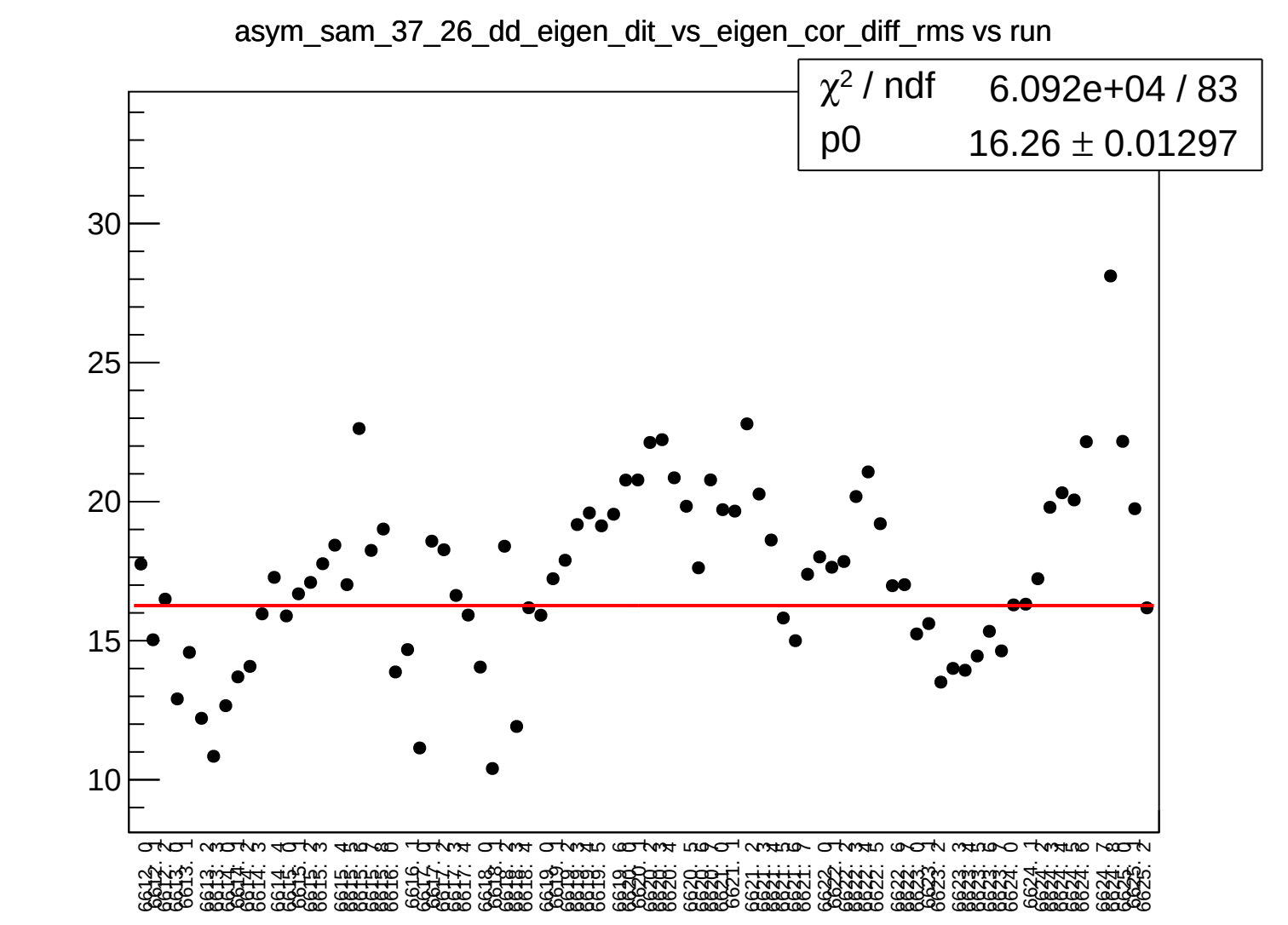

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.15 / 83
p0 −0.001106 ± 0.01835
pull
Entries 84
Mean 268.6
Std Dev 0

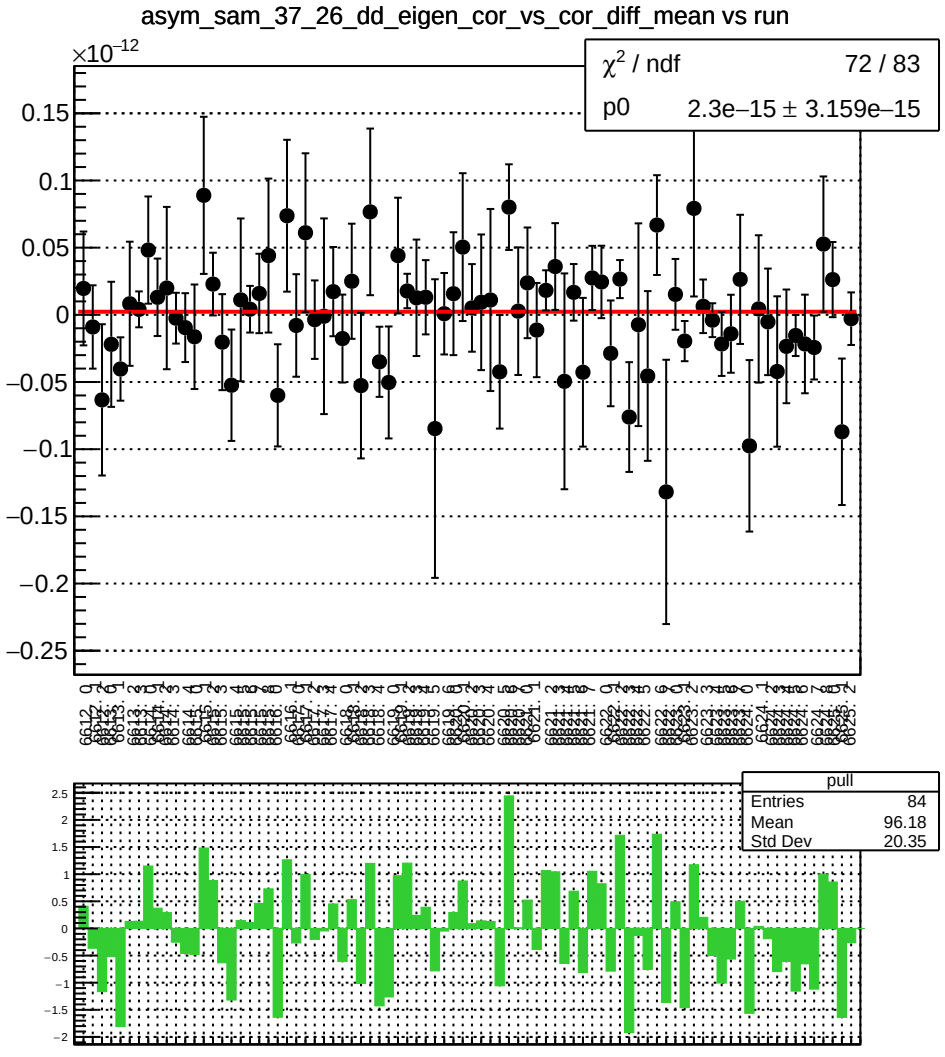

pull1D
Entries 84
Mean 0.005115
Std Dev 0.9395

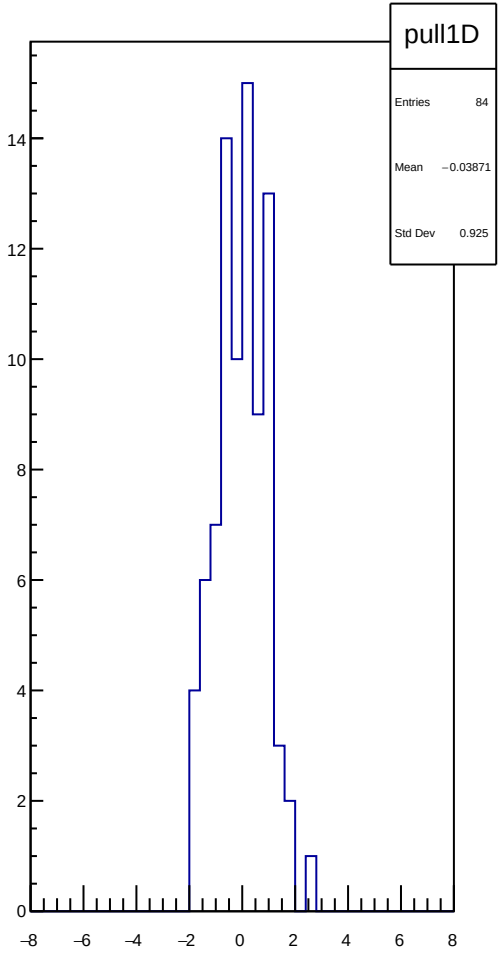

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.092e+04 / 83
p0 16.26 ± 0.01297
30
25
20
15
10

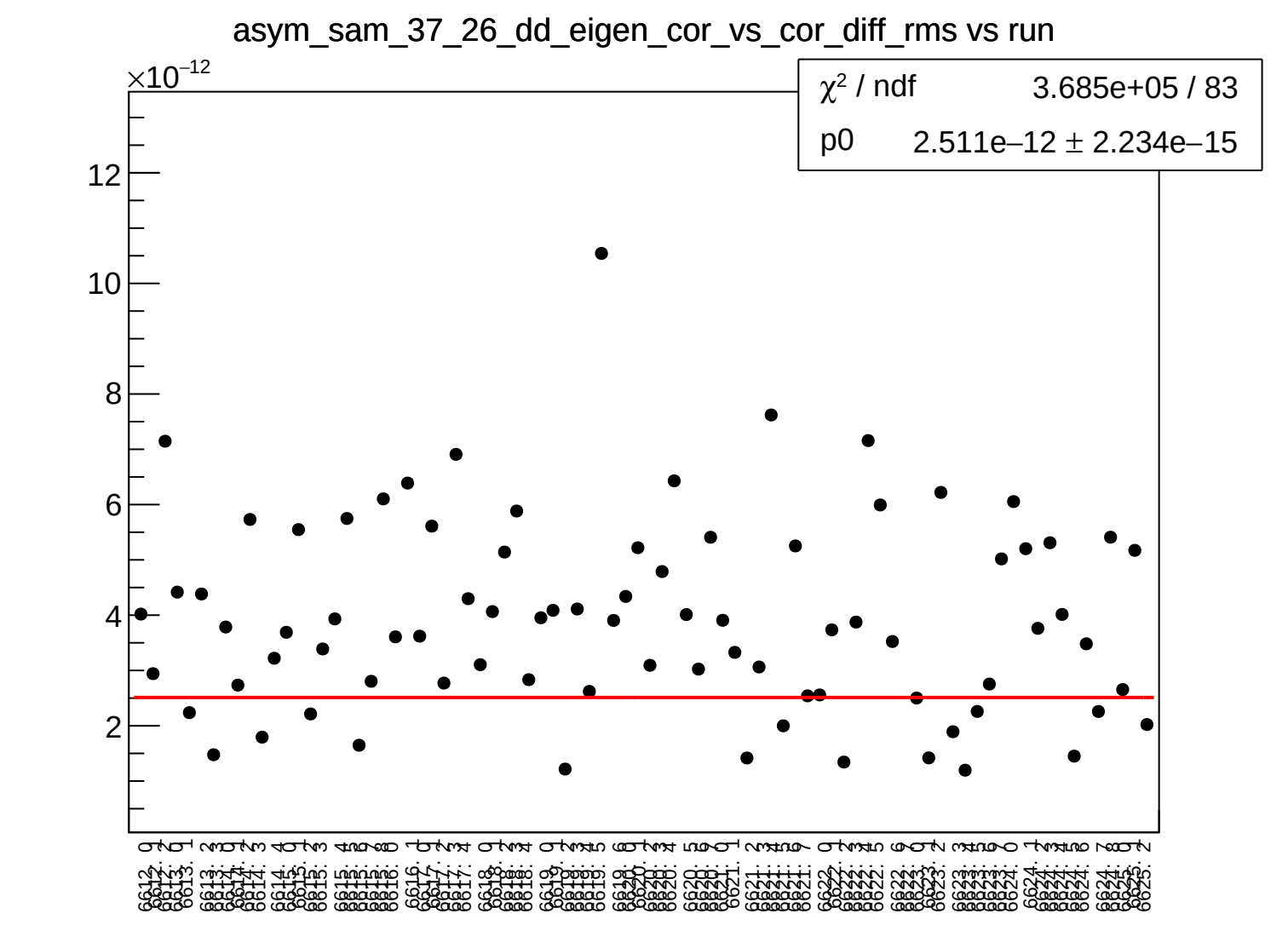

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.15 / 83
p0 −0.001106 ± 0.01835
pull
Entries 84
Mean 268.6
Std Dev 0

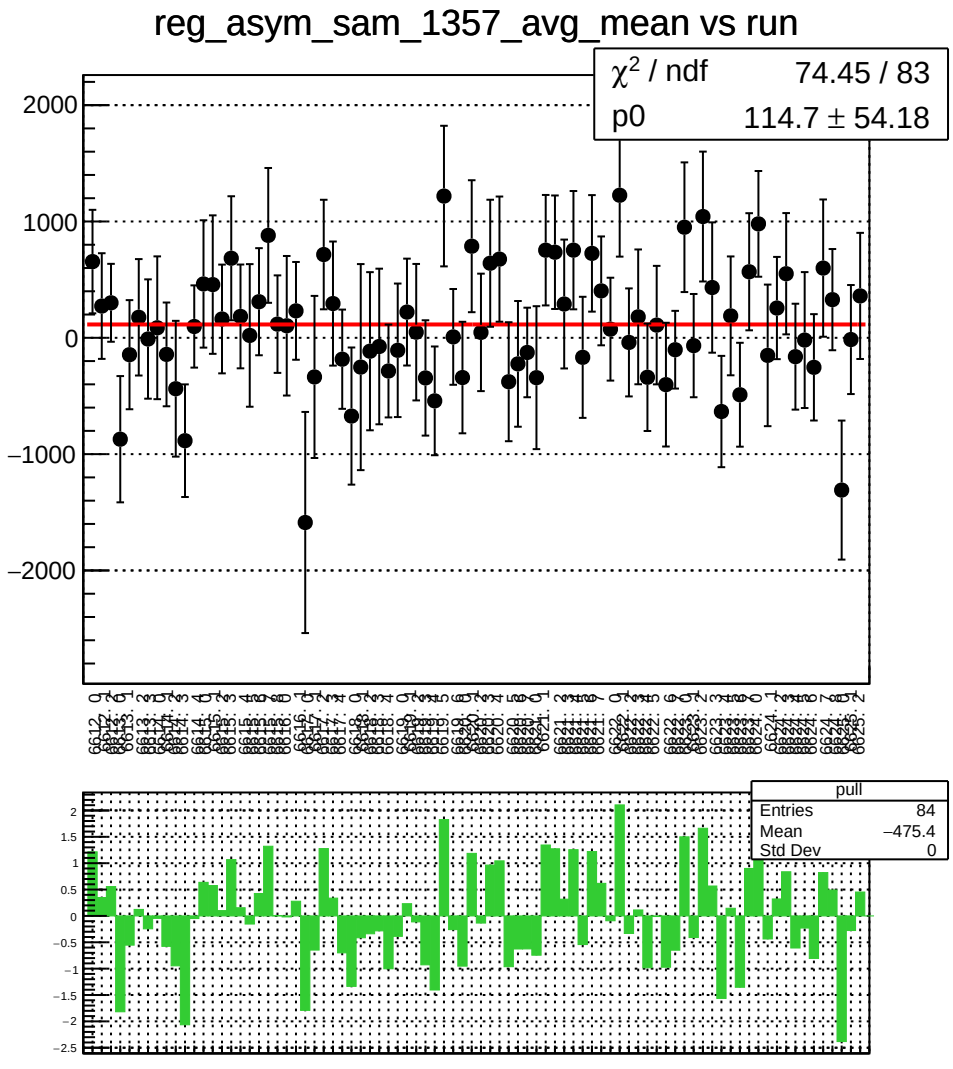

pull1D
Entries 84
Mean 0.005115
Std Dev 0.9395

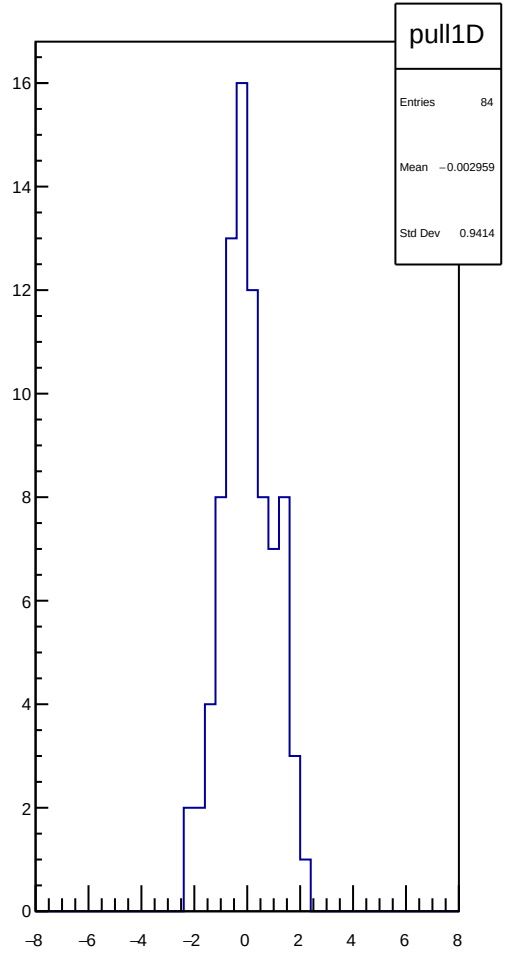

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.092e+04 / 83
p0 16.26 ± 0.01297
30
25
20
15
10

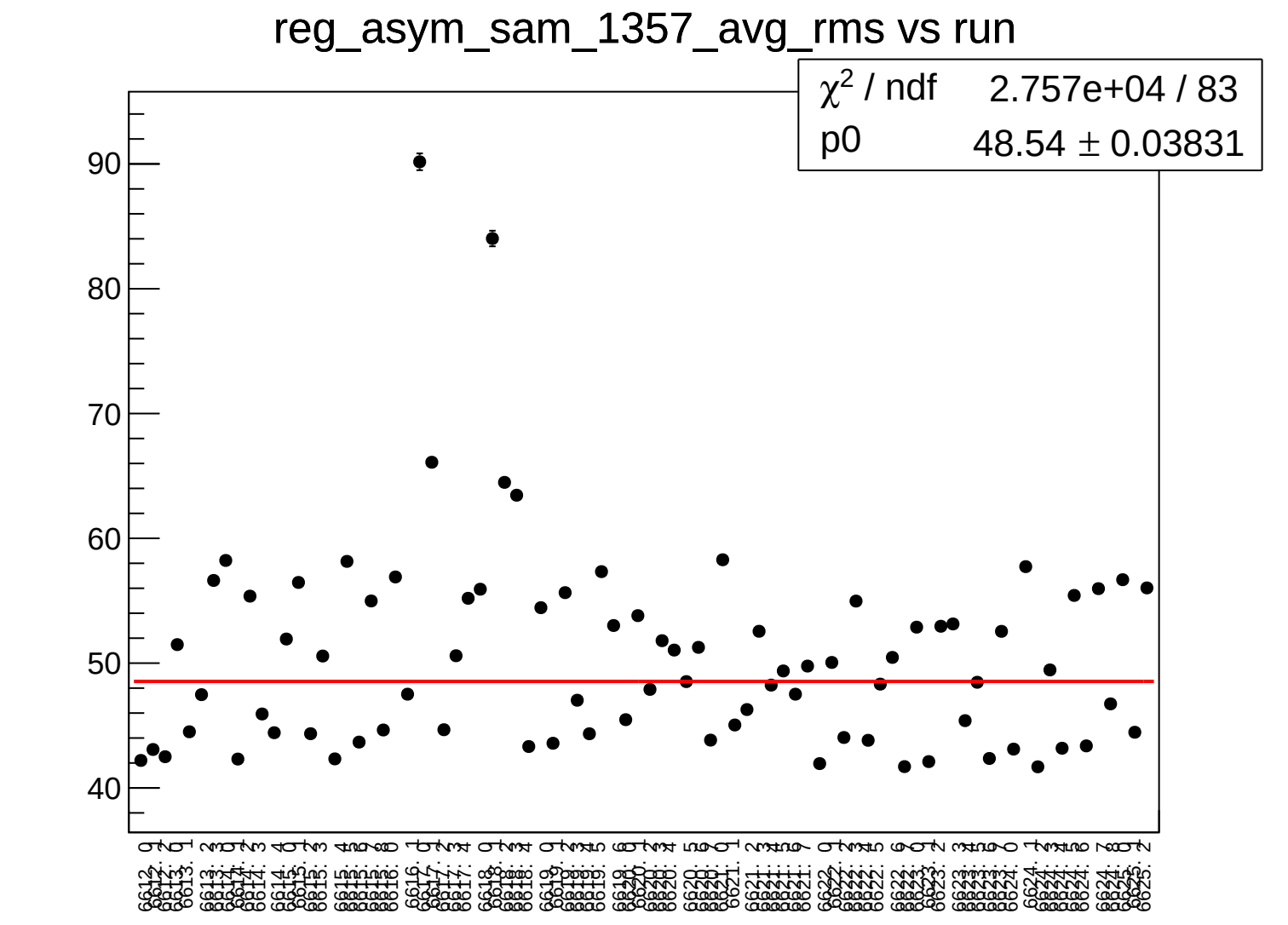

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72 / 83
p0 2.3e−15 ± 3.159e−15
pull
Entries 84
Mean 96.18
Std Dev 20.35

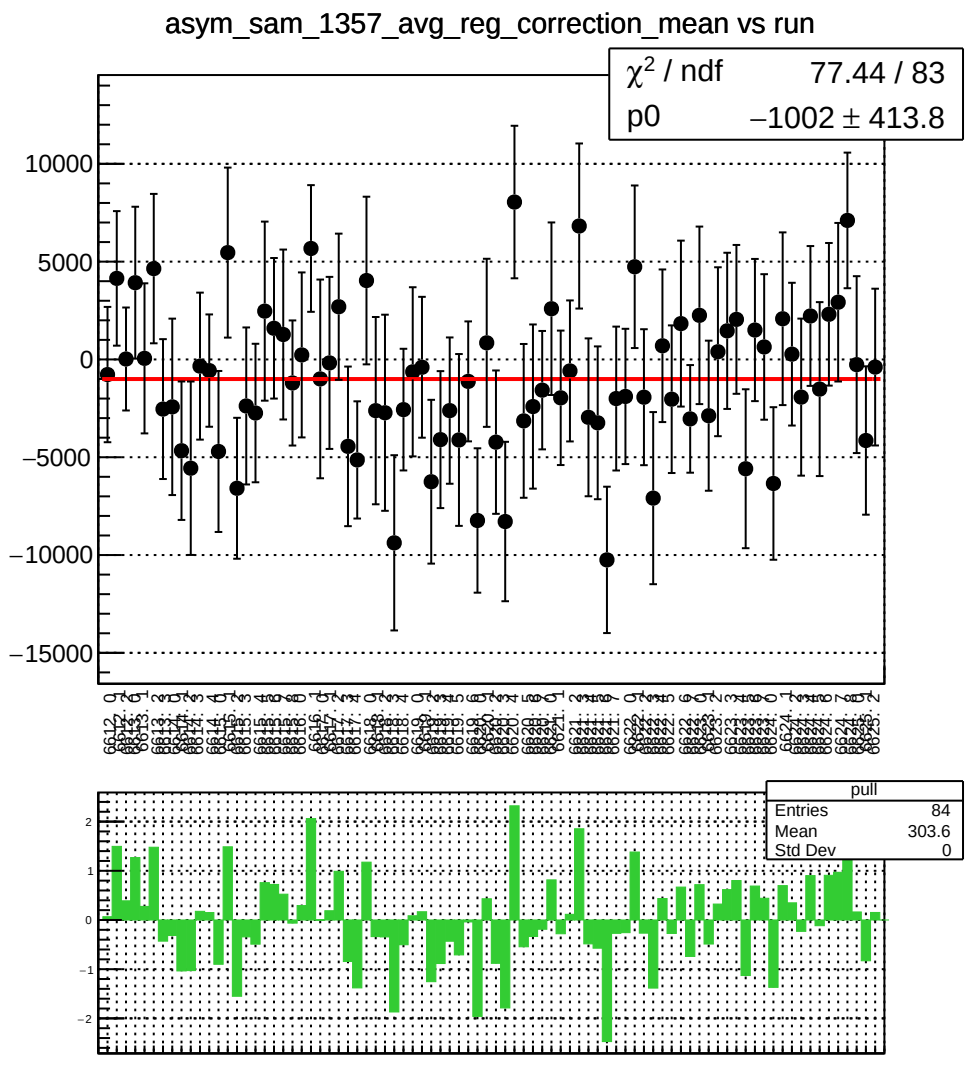

pull1D
Entries 84
Mean −0.03871
Std Dev 0.925

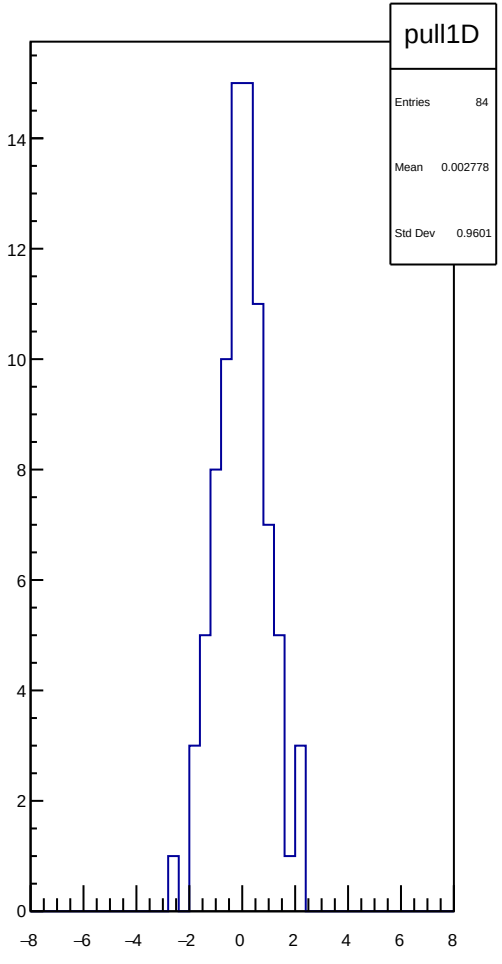

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.685e+05 / 83
p0 2.511e−12 ± 2.234e−15
12
10
8
6
4
2

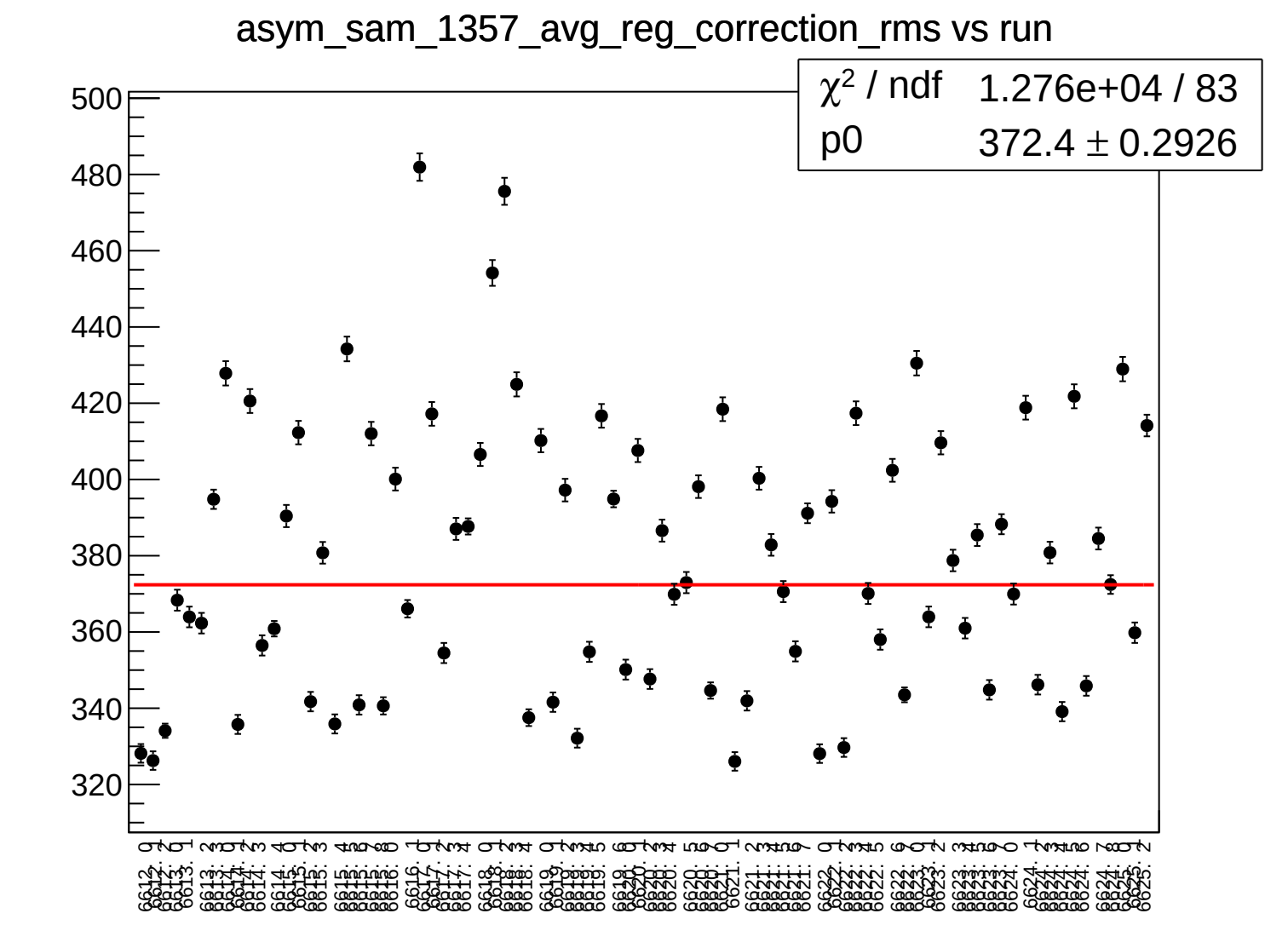

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 74.45 / 83
p0 114.7 ± 54.18
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −475.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

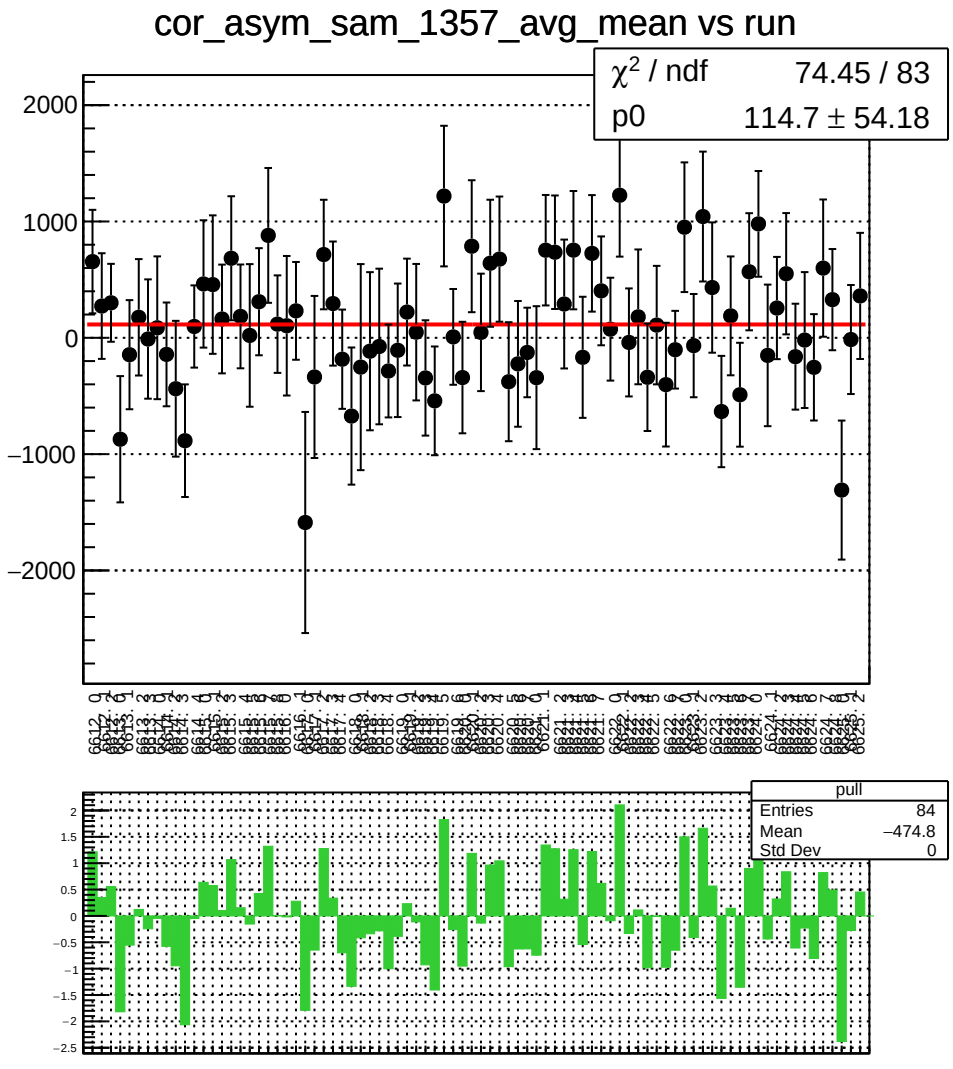

pull1D
Entries 84
Mean −0.002959
Std Dev 0.9414
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

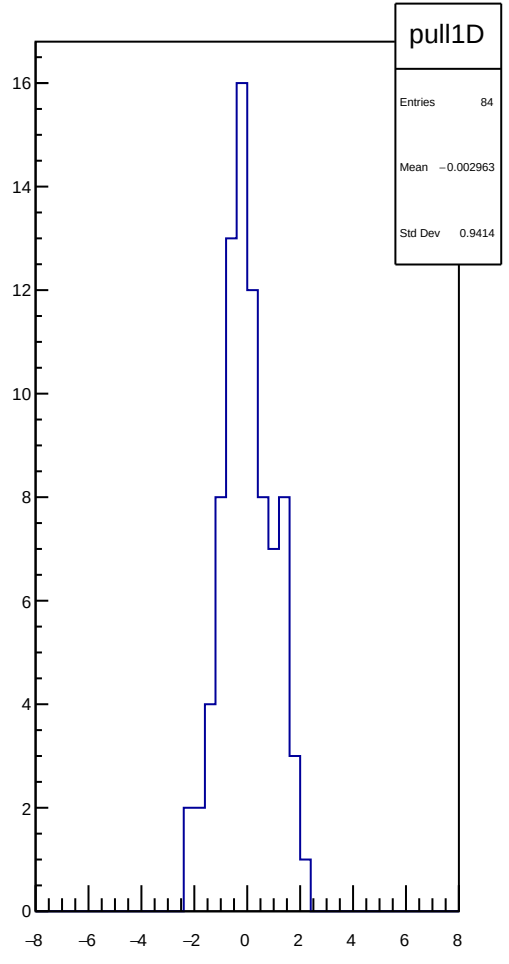

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.757e+04 / 83
p0 48.54 ± 0.03831
90
80
70
60
50
40

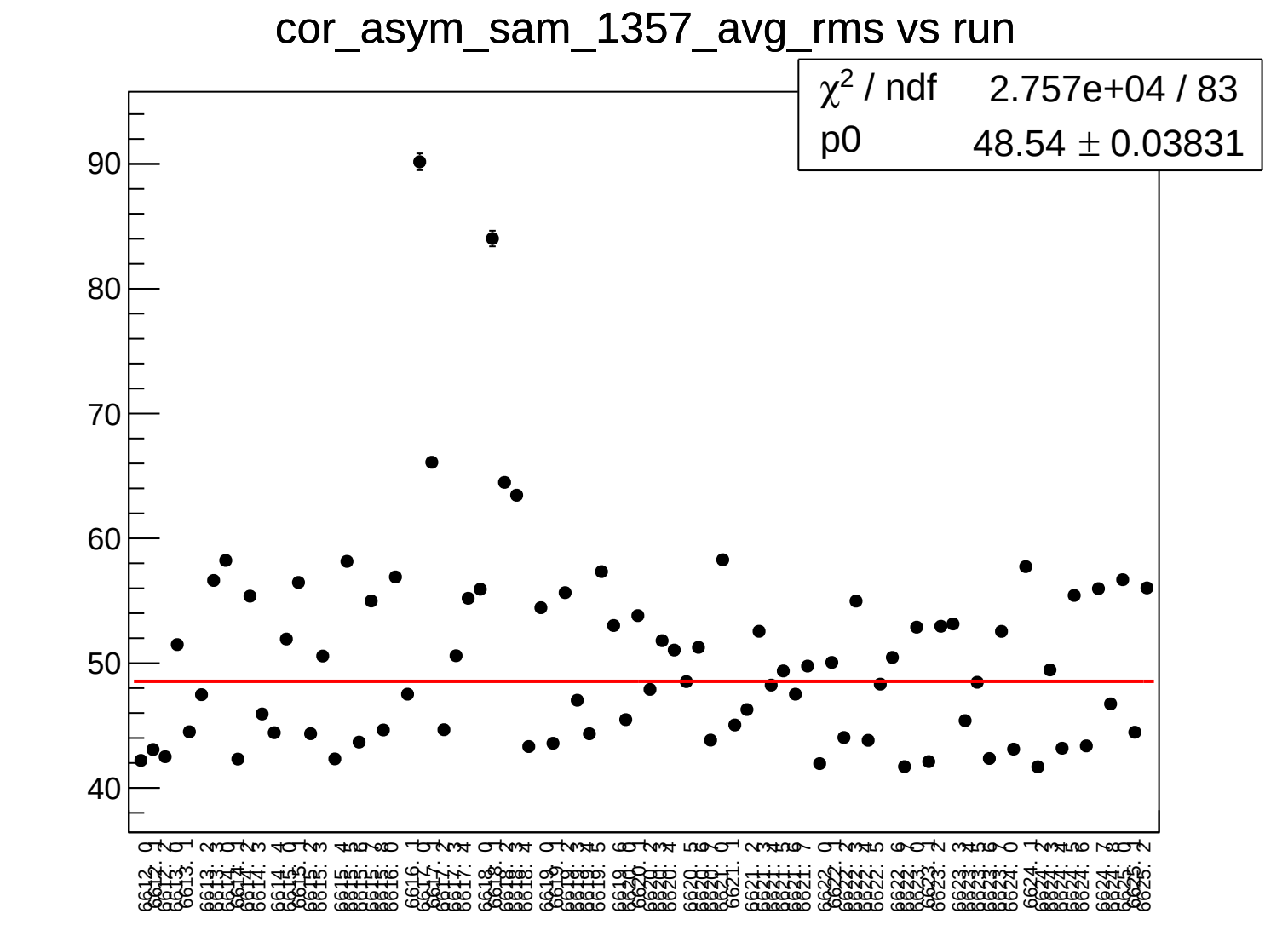

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 77.44 / 83
p0 −1002 ± 413.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 303.6
Std Dev 0
2
1
0
−1
−2

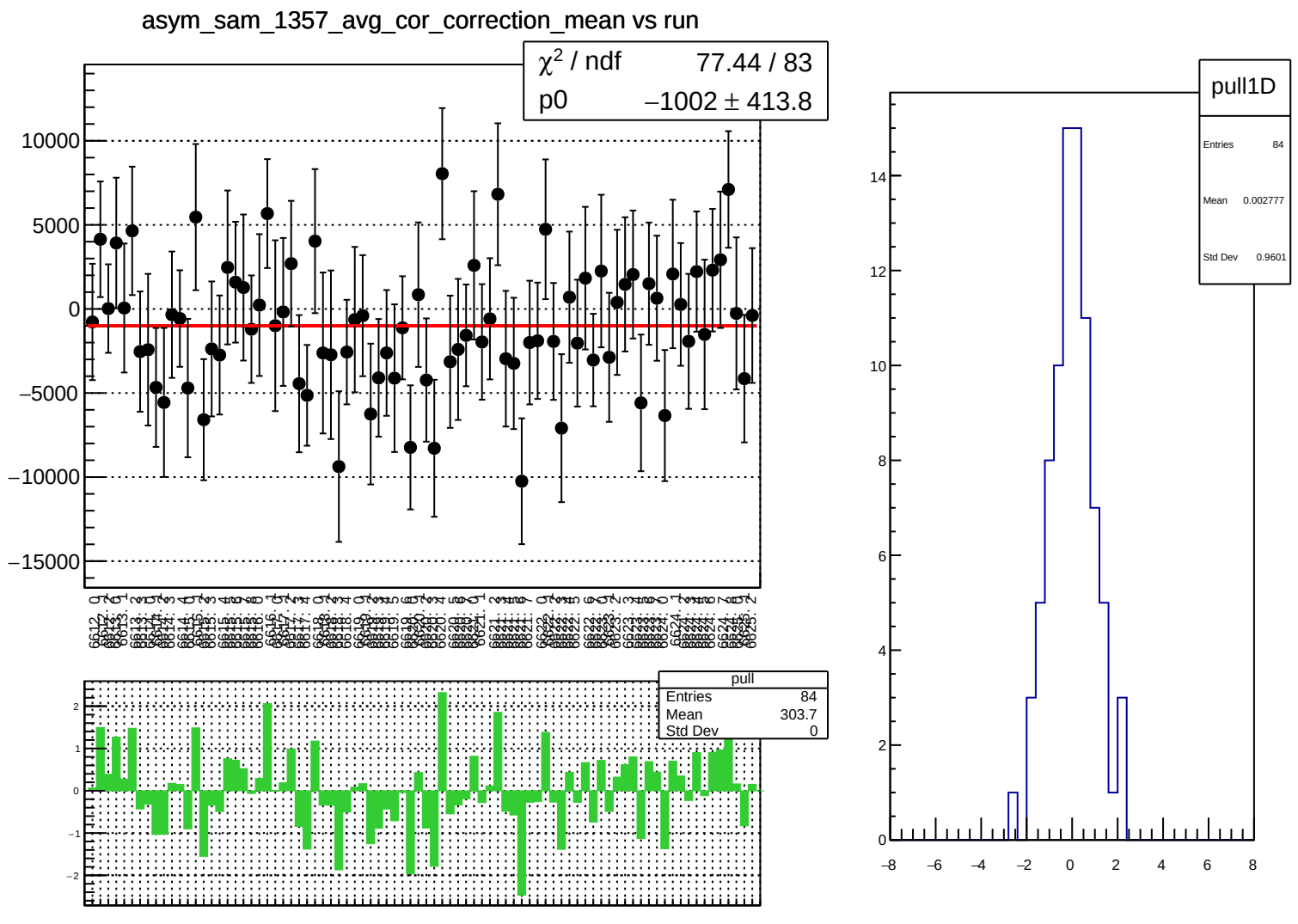

pull1D
Entries 84
Mean 0.002778
Std Dev 0.9601
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

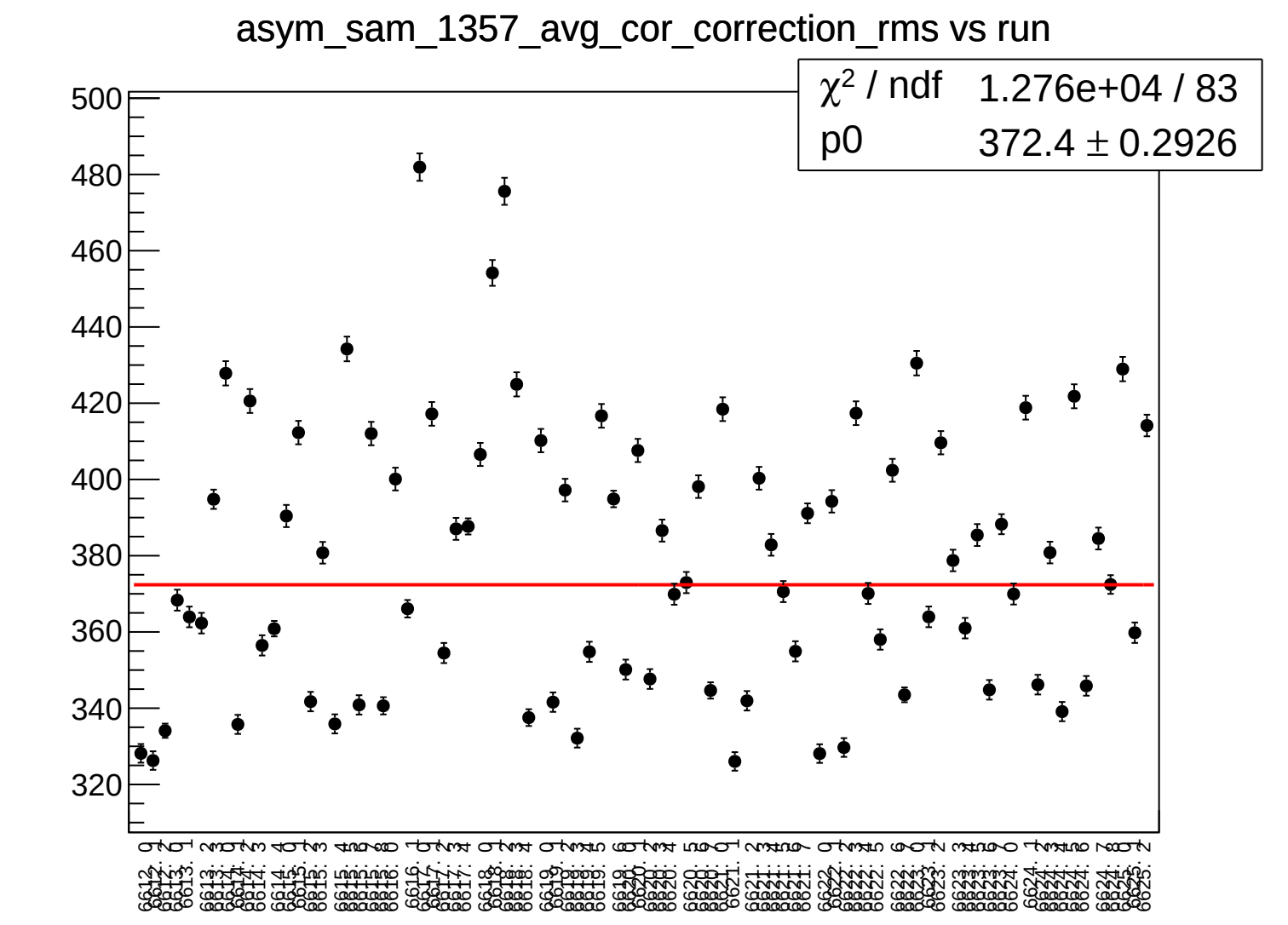

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1.276e+04 / 83
p0 372.4 ± 0.2926
500
480
460
440
420
400
380
360
340
320

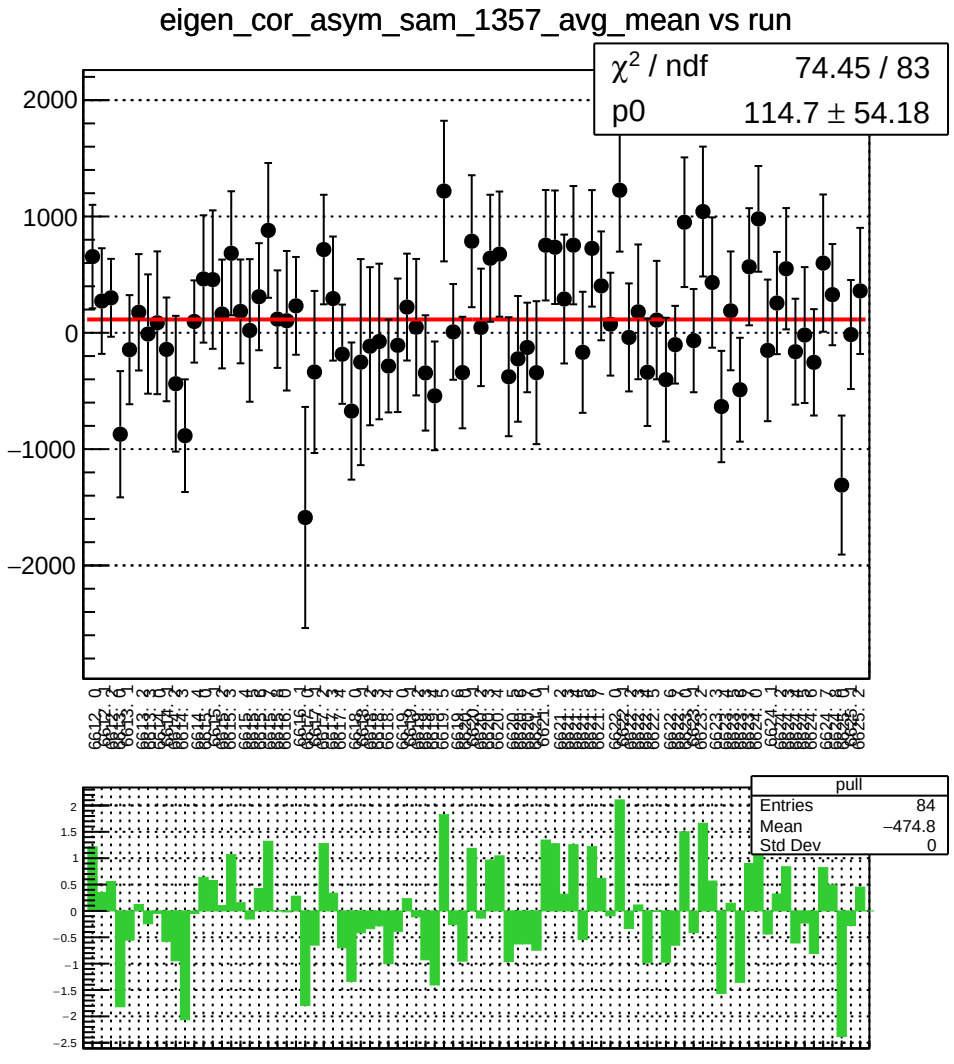

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 74.45 / 83
p0 114.7 ± 54.18
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −474.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

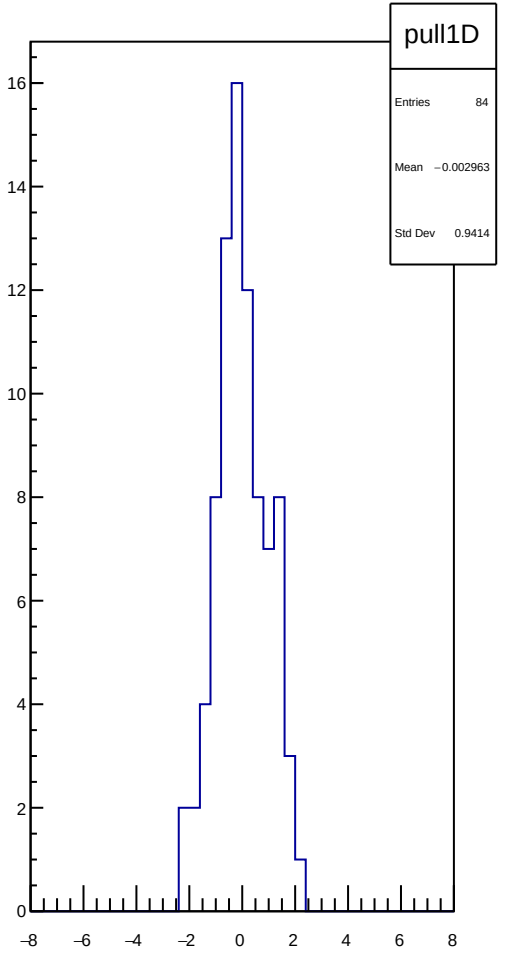

pull1D
Entries 84
Mean −0.002963
Std Dev 0.9414
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

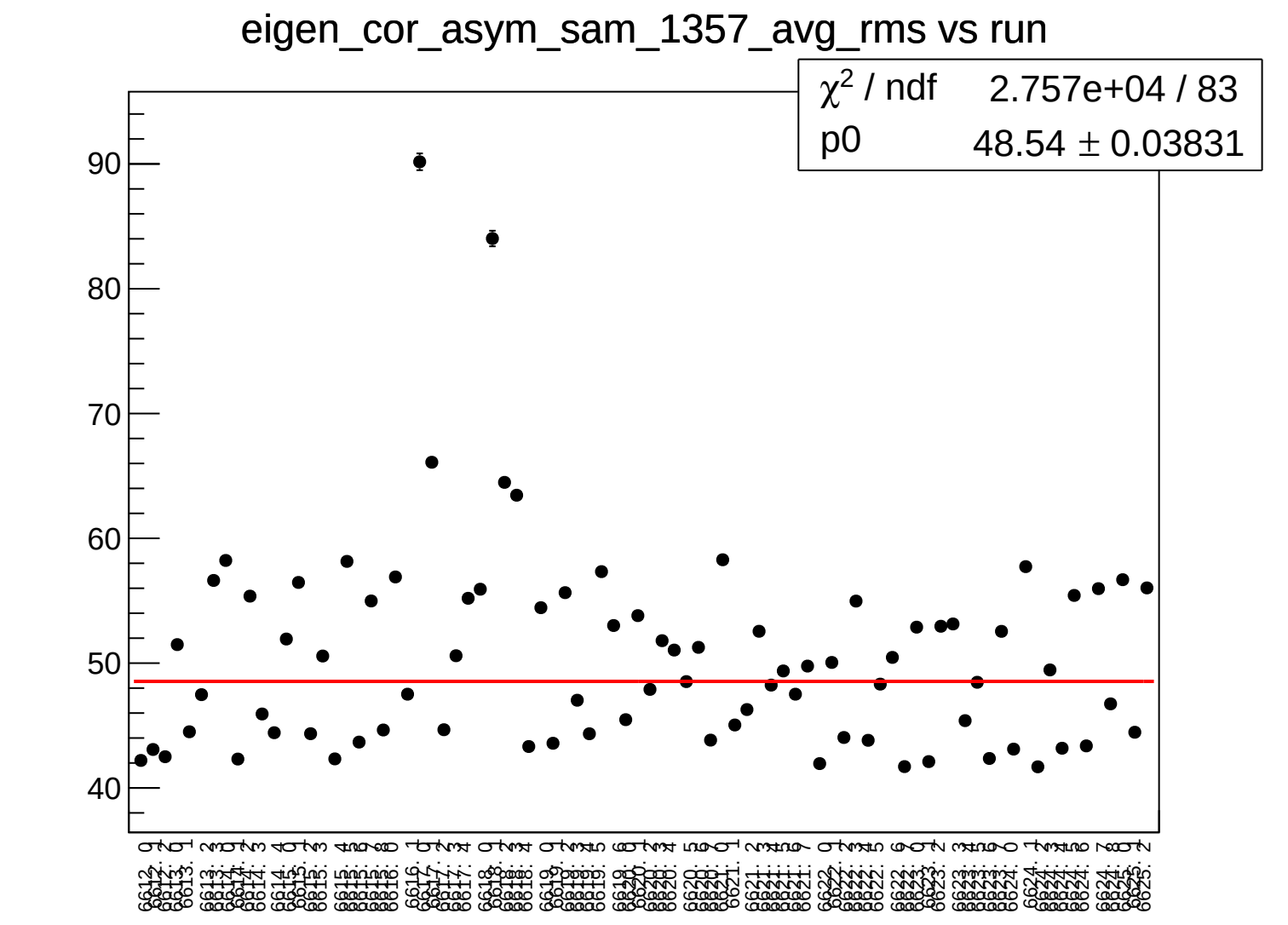

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.757e+04 / 83
p0 48.54 ± 0.03831
90
80
70
60
50
40

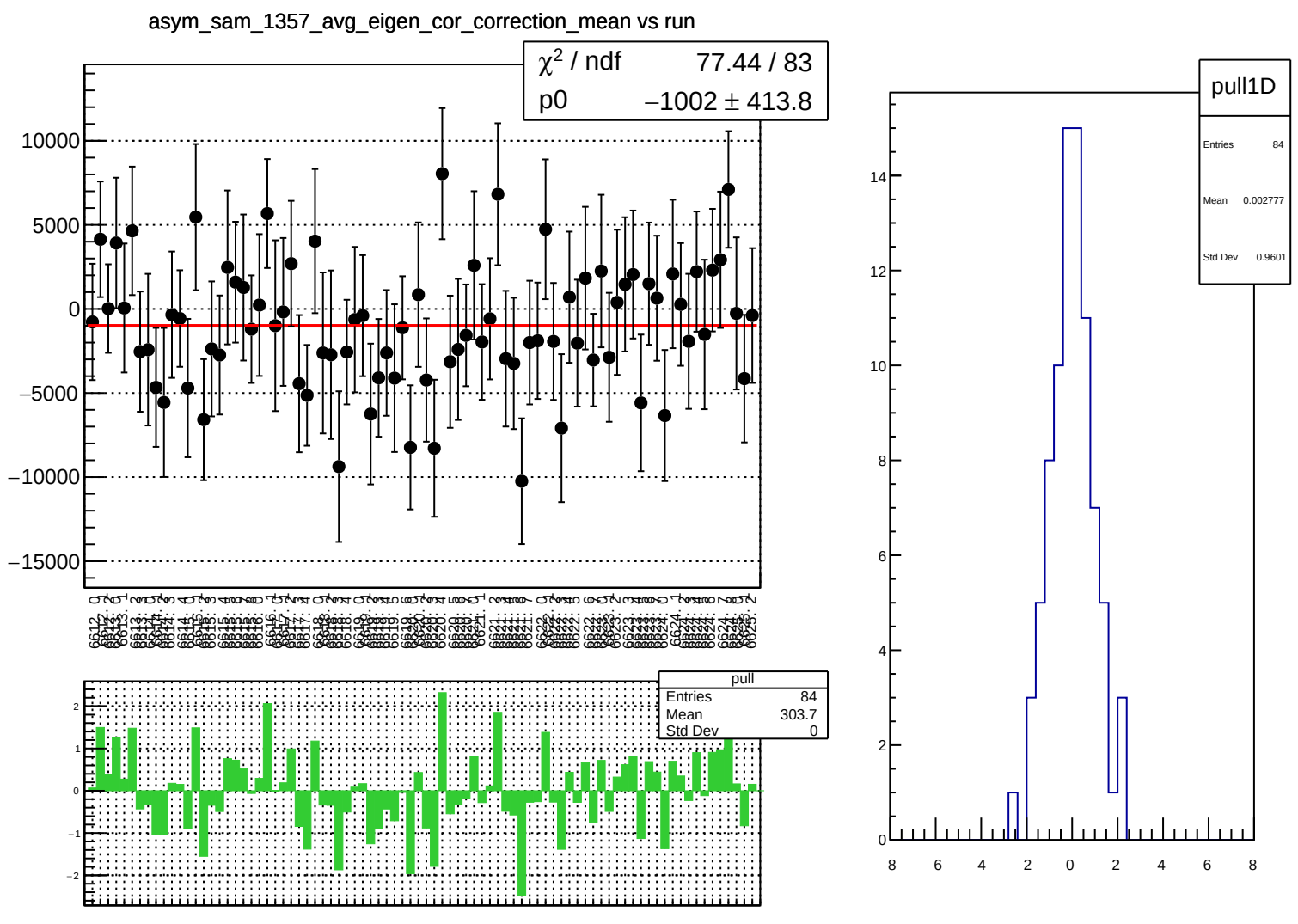

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 77.44 / 83
p0 −1002 ± 413.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 303.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.002777
Std Dev 0.9601
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

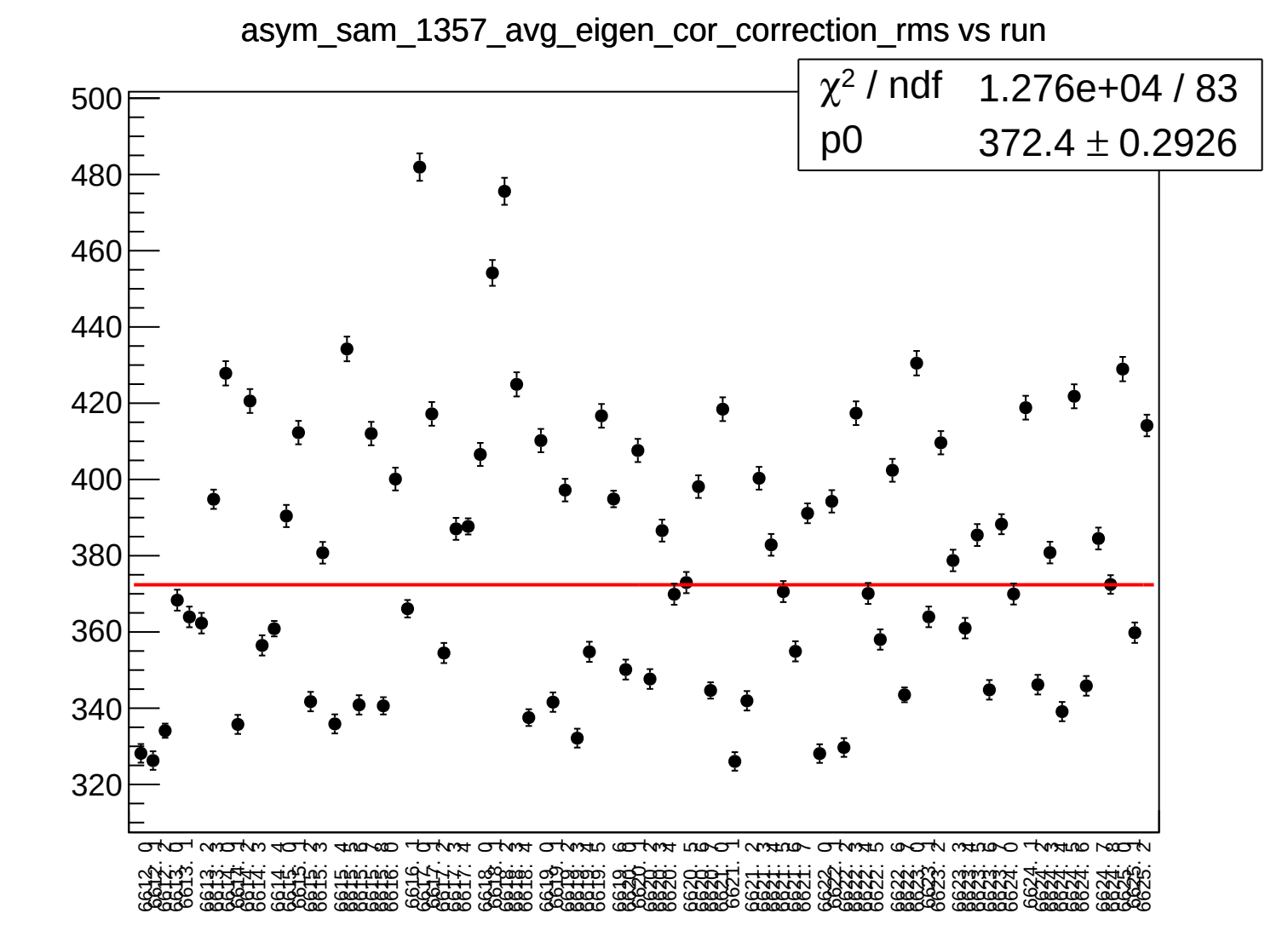

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1.276e+04 / 83
p0 372.4 ± 0.2926
500
480
460
440
420
400
380
360
340
320

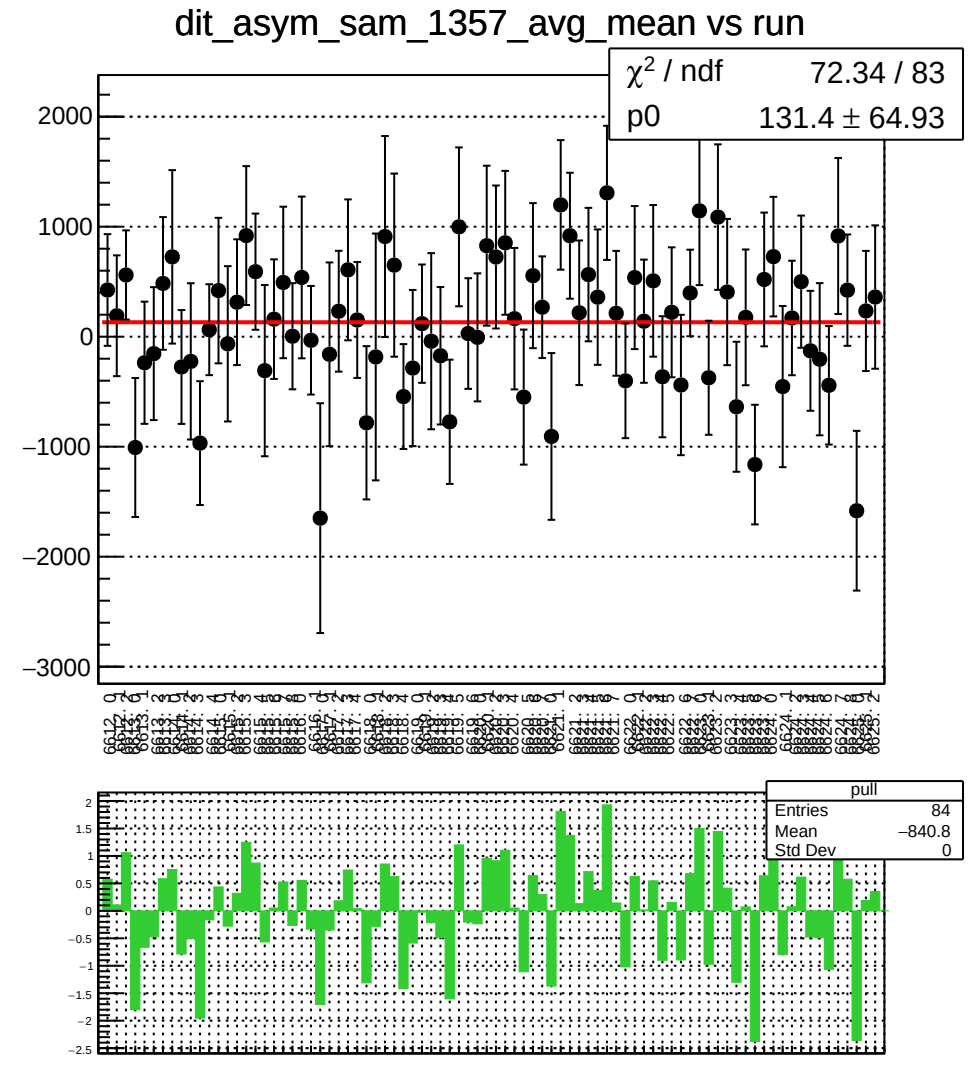

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 74.45 / 83
p0 114.7 ± 54.18
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −474.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

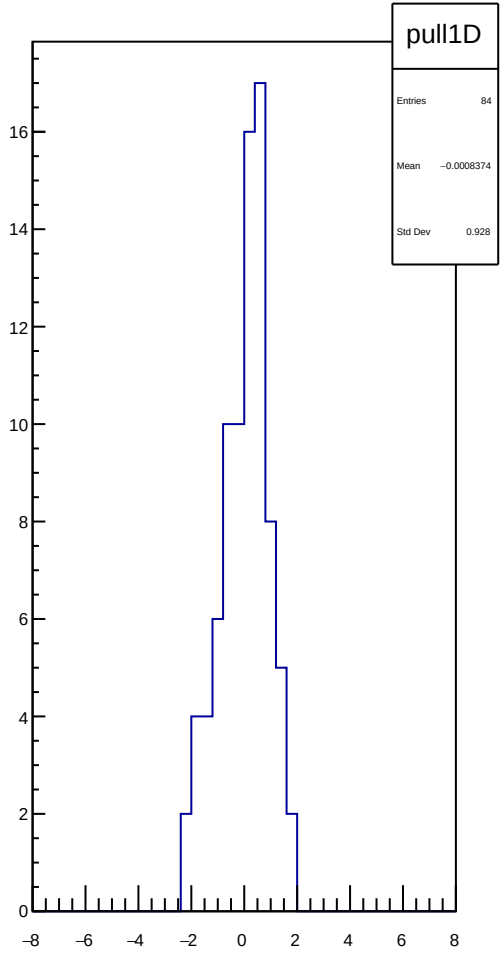

pull1D
Entries 84
Mean −0.002963
Std Dev 0.9414
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

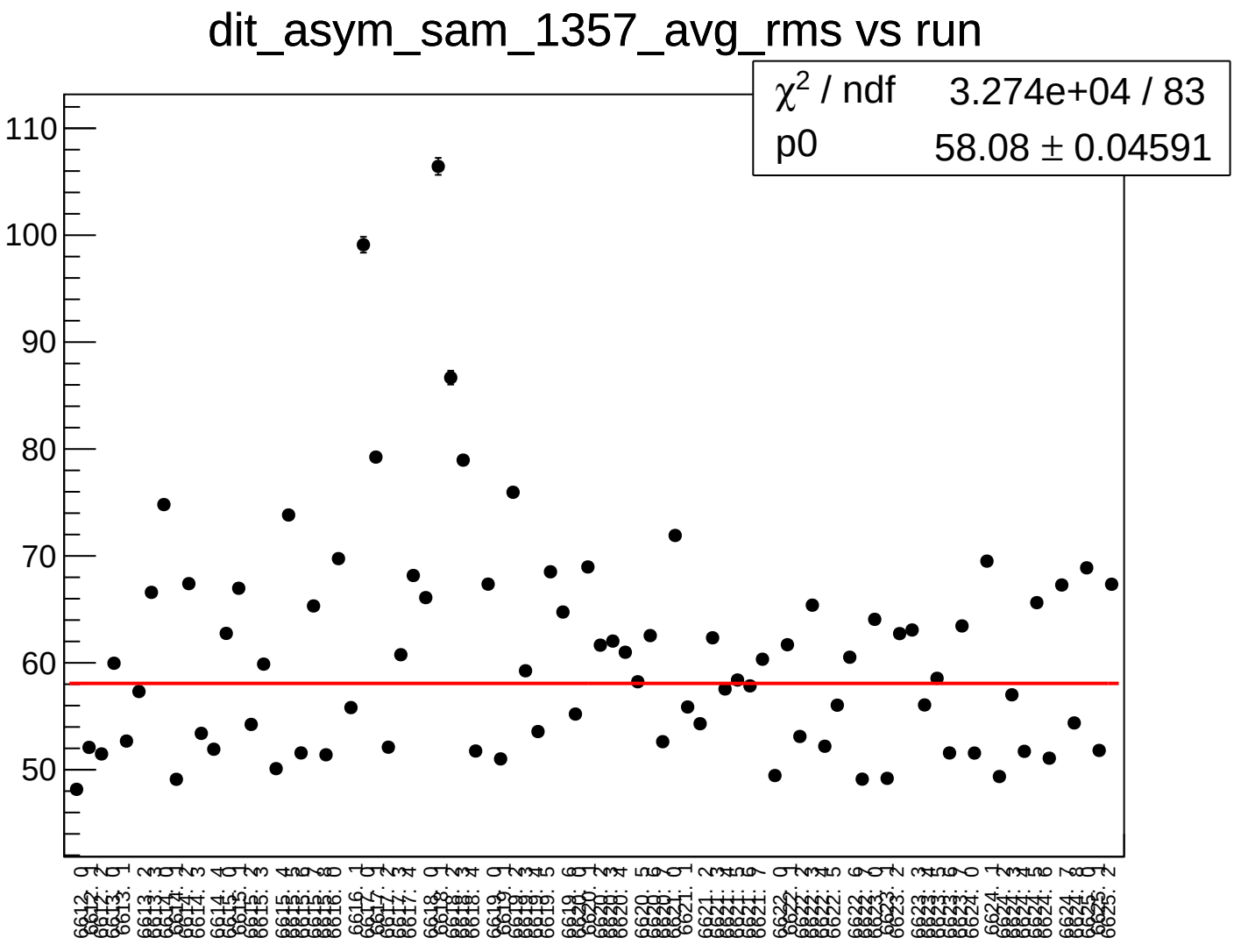

eigen_cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.757e+04 / 83
p0 48.54 ± 0.03831
90
80
70
60
50
40

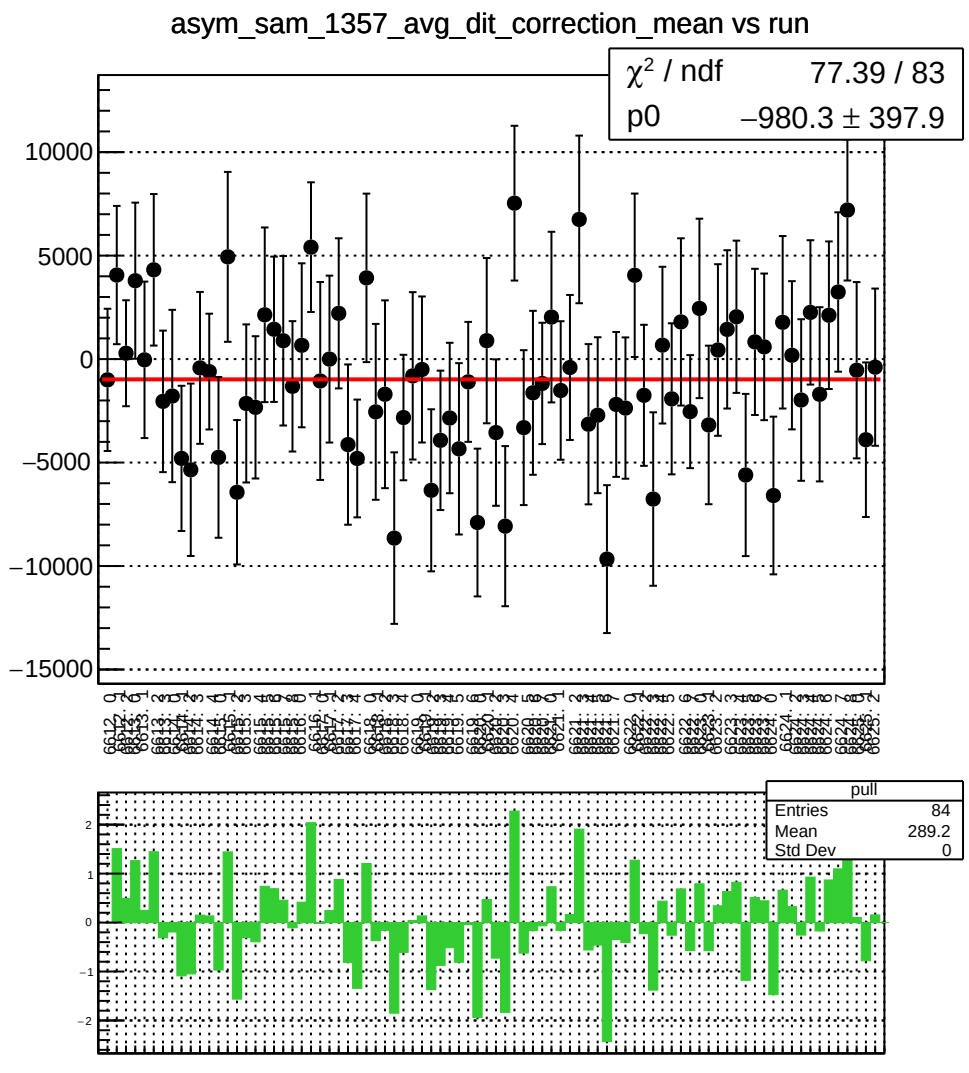

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 77.44 / 83
p0 −1002 ± 413.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 303.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.002777
Std Dev 0.9601
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

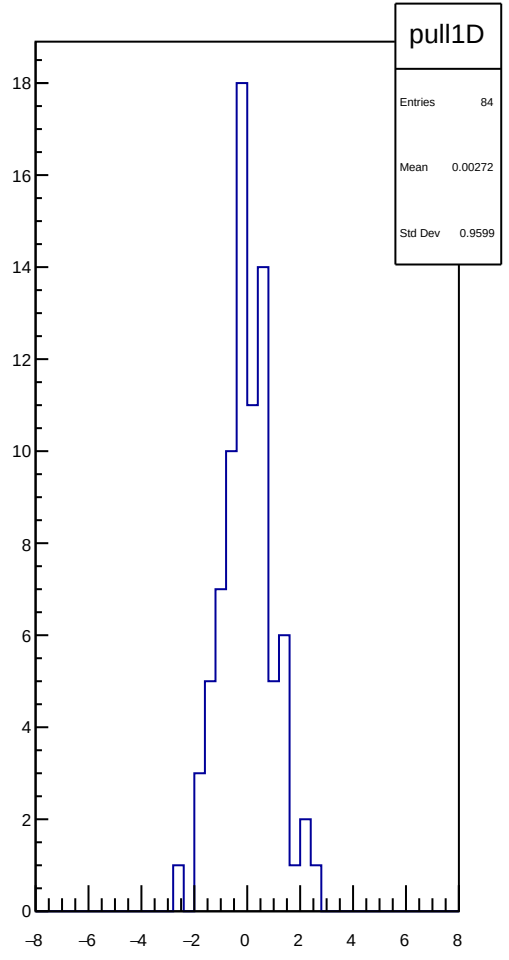

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.276e+04 / 83
p0 372.4 ± 0.2926
500
480
460
440
420
400
380
360
340
320

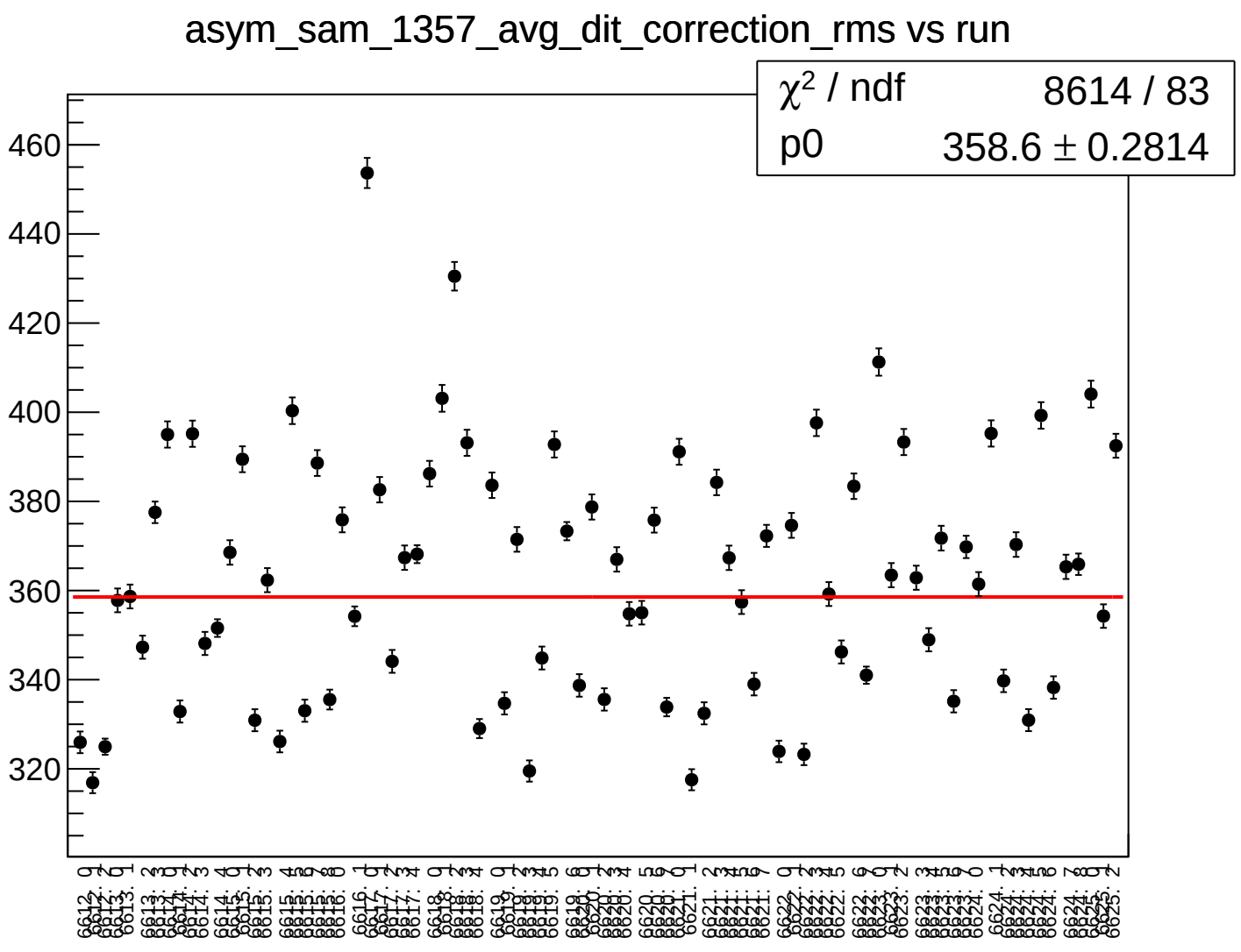

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 72.34 / 83
p0 131.4 ± 64.93
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −840.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

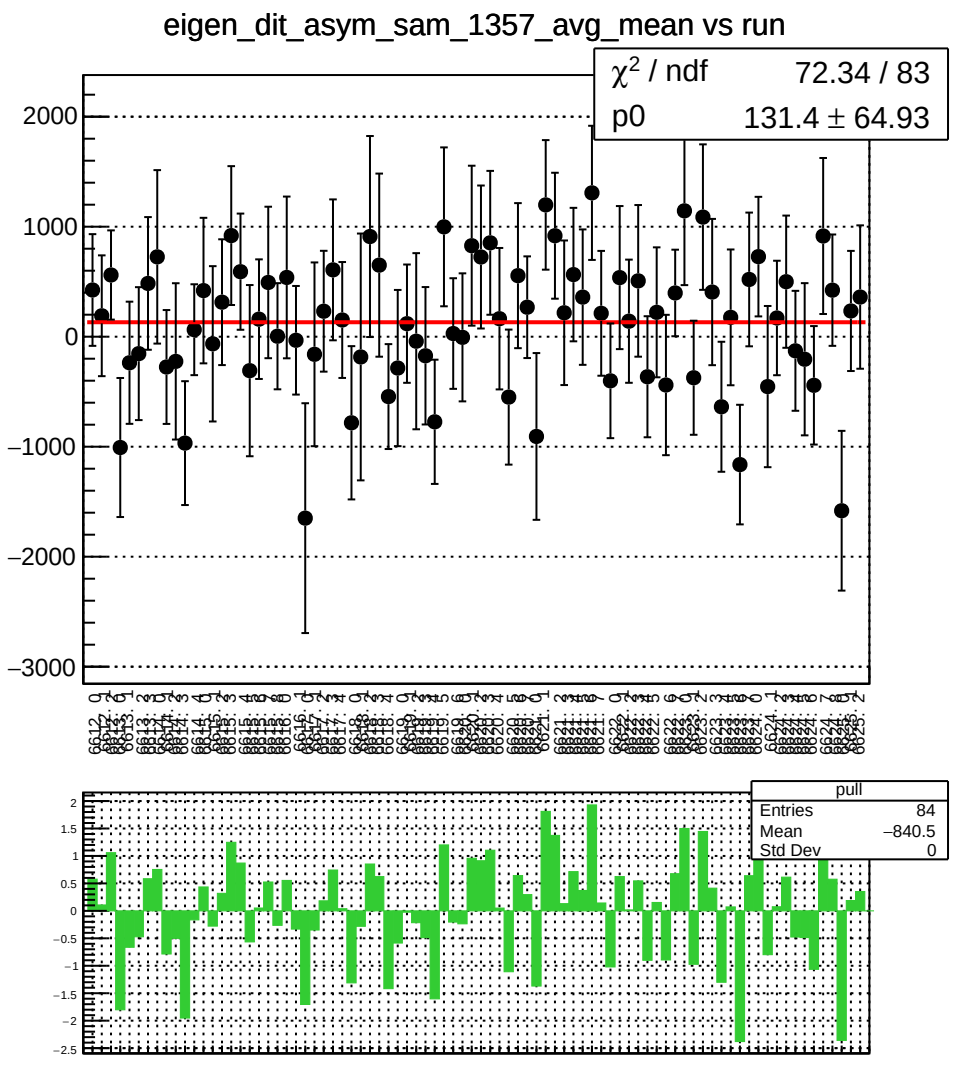

pull1D
Entries 84
Mean −0.0008374
Std Dev 0.928
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

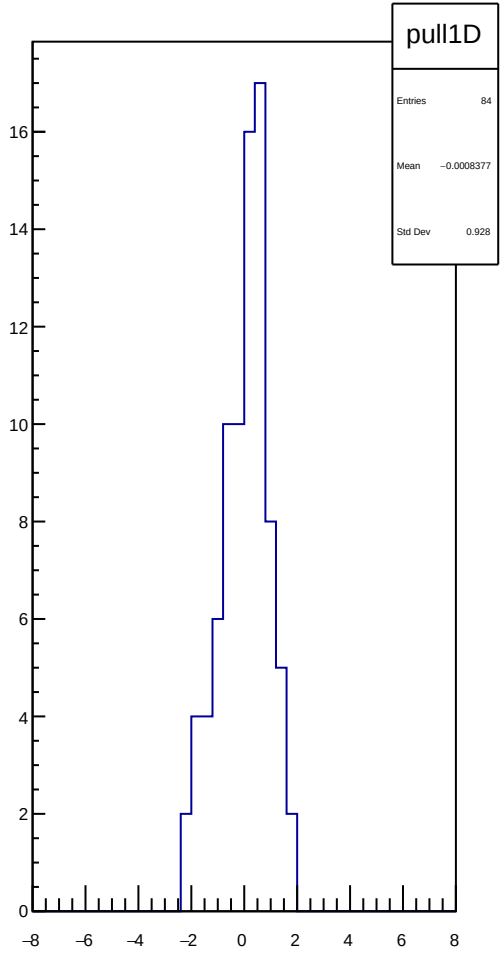

dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.274e+04 / 83
p0 58.08 ± 0.04591
110
100
90
80
70
60
50

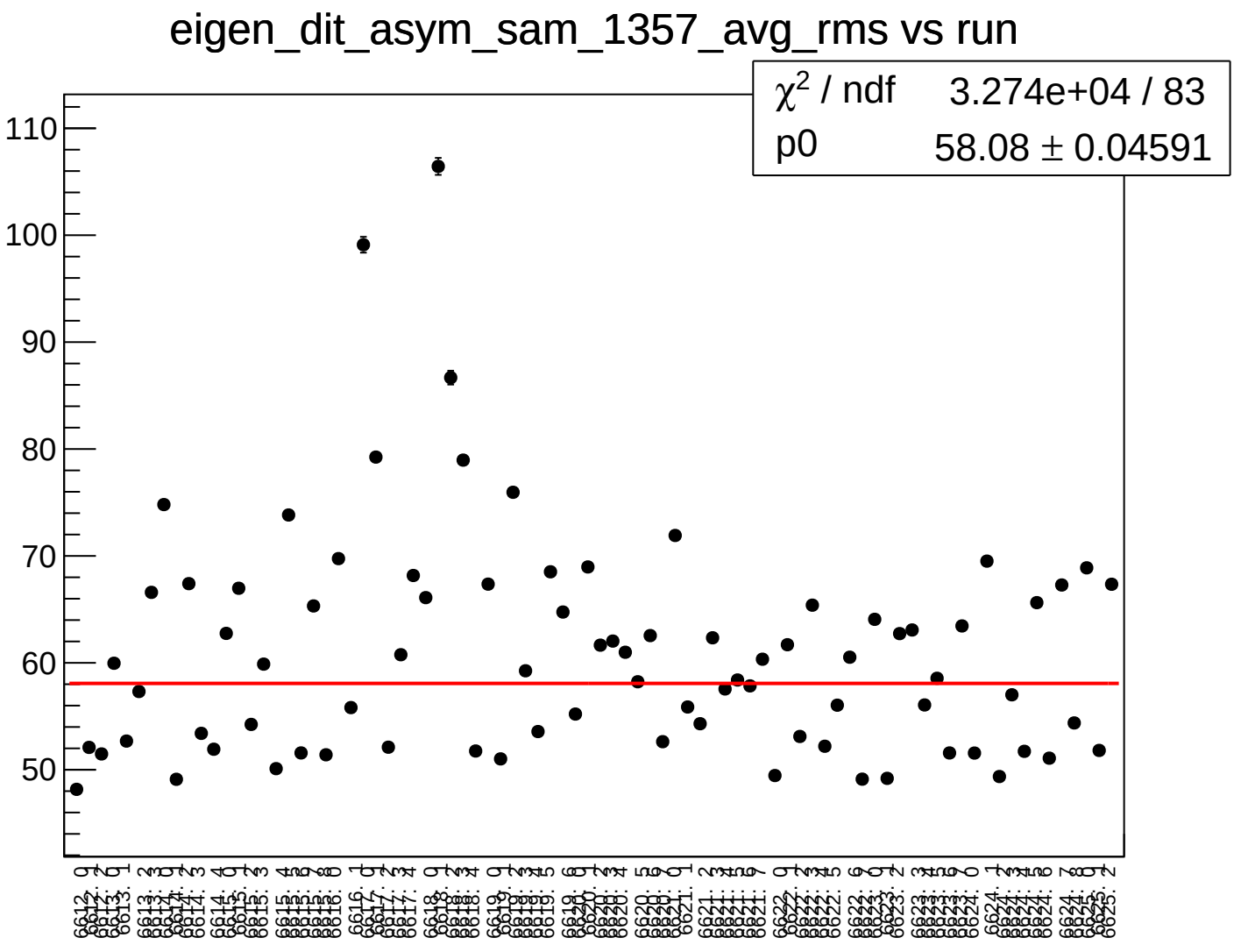

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 77.39 / 83
p0 −980.3 ± 397.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 289.2
Std Dev 0
2
1
0
−1
−2

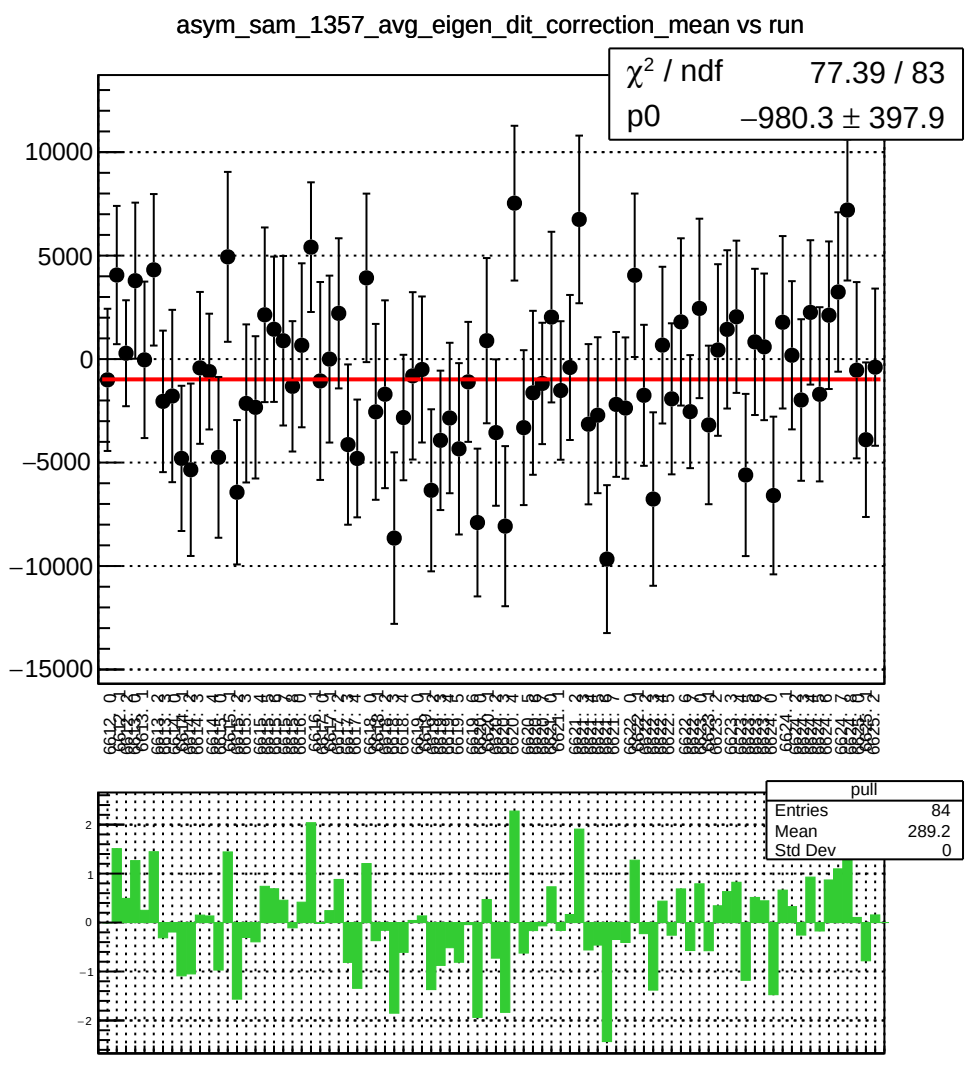

pull1D
Entries 84
Mean 0.00272
Std Dev 0.9599
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

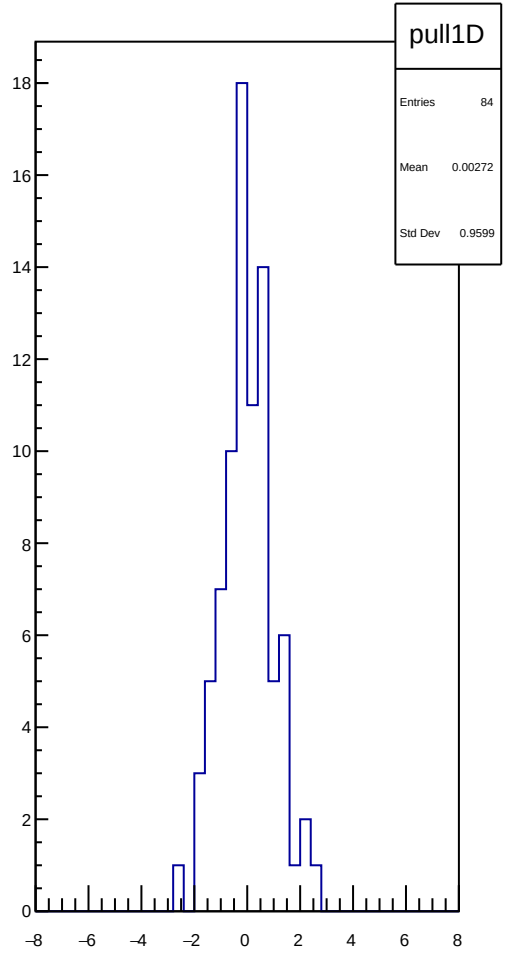

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 8614 / 83
p0 358.6 ± 0.2814
460
440
420
400
380
360
340
320

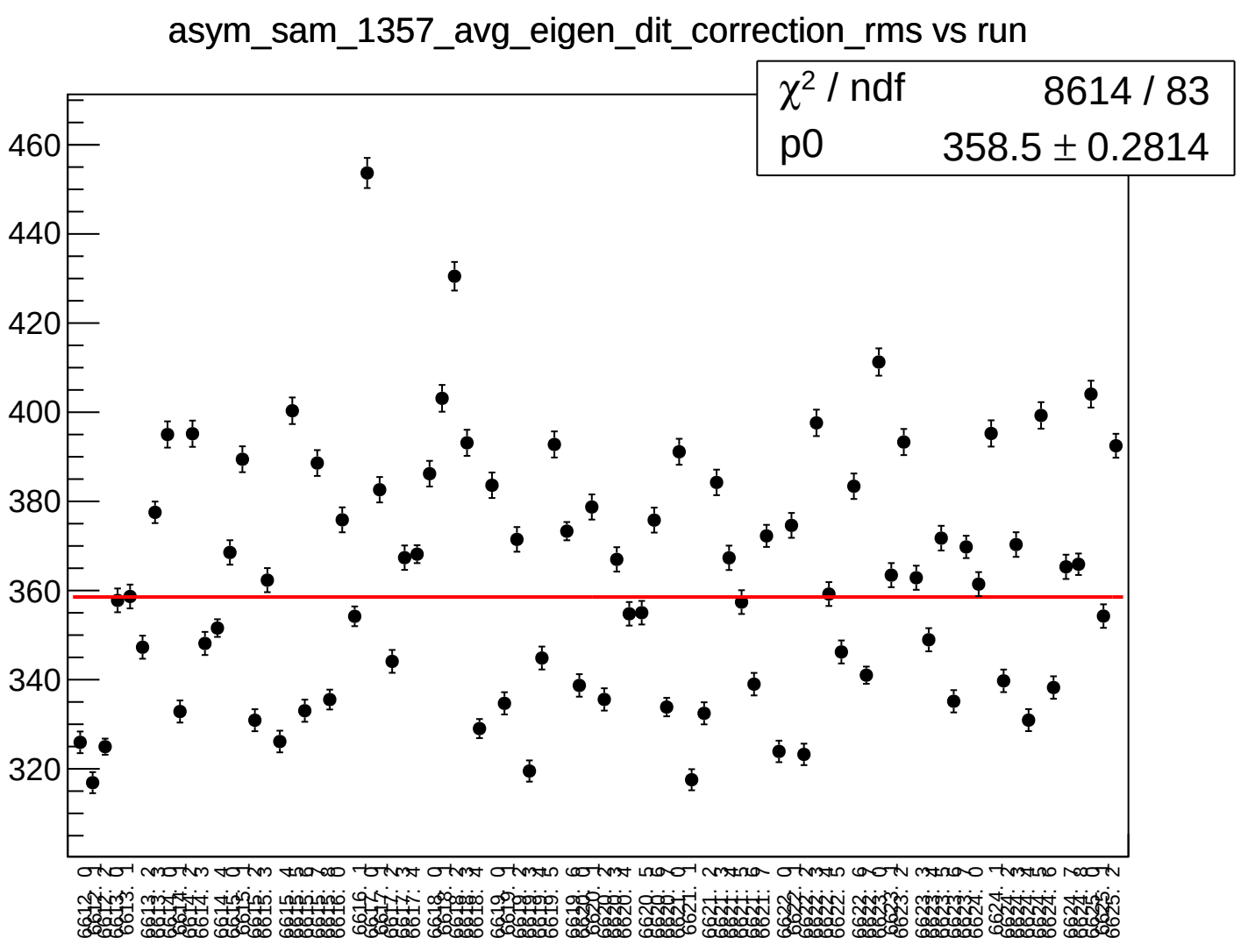

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 72.34 / 83
p0 131.4 ± 64.93
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −840.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

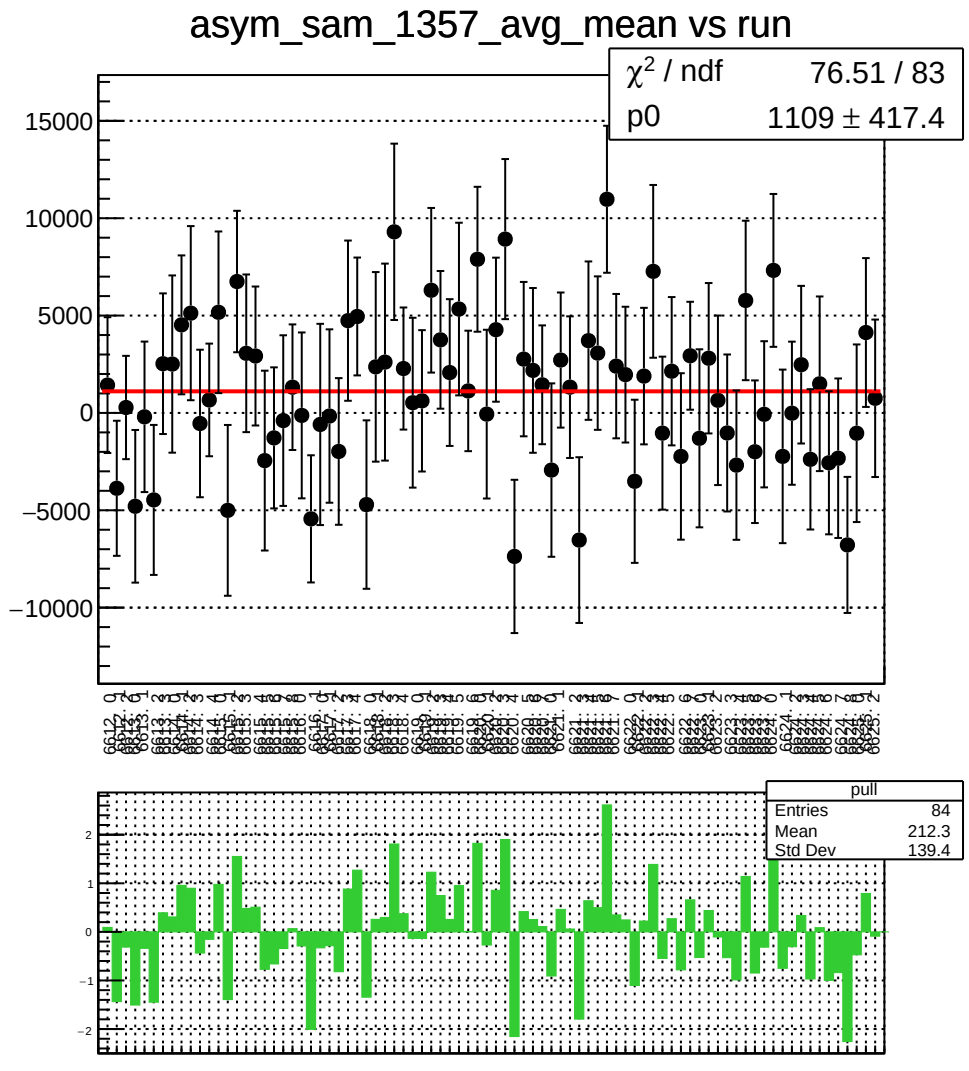

pull1D
Entries 84
Mean −0.0008377
Std Dev 0.928
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

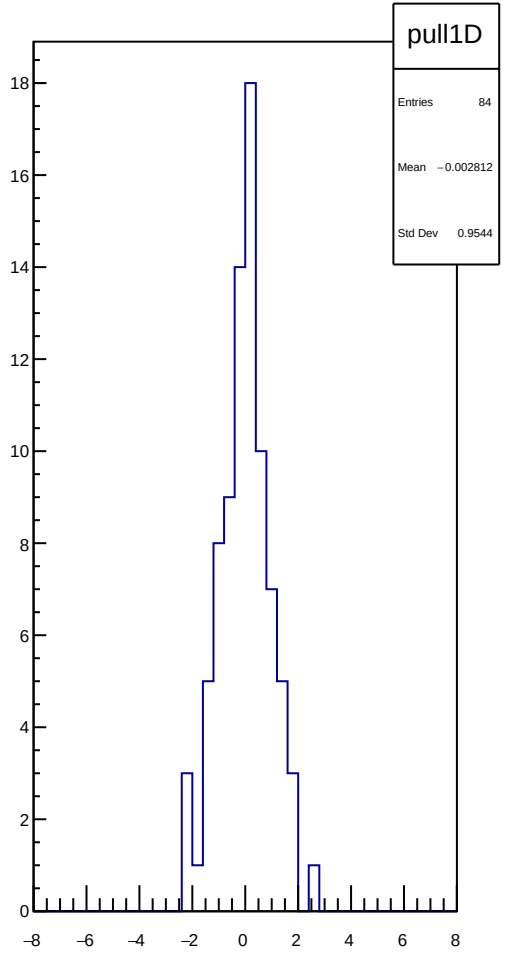

eigen_dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.274e+04 / 83
p0 58.08 ± 0.04591
110
100
90
80
70
60
50

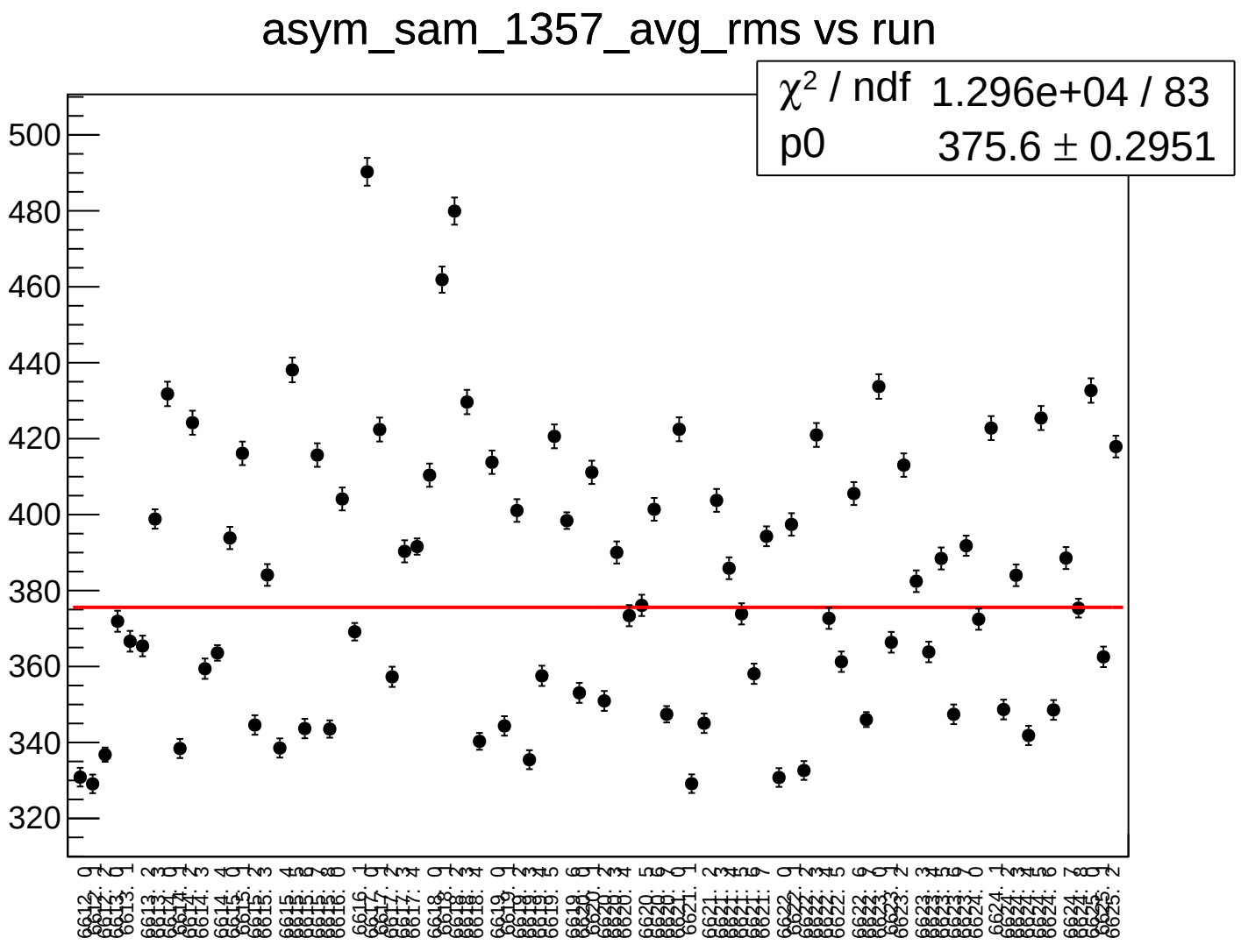

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.39 / 83
p0 −980.3 ± 397.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 289.2
Std Dev 0
2
1
0
−1
−2

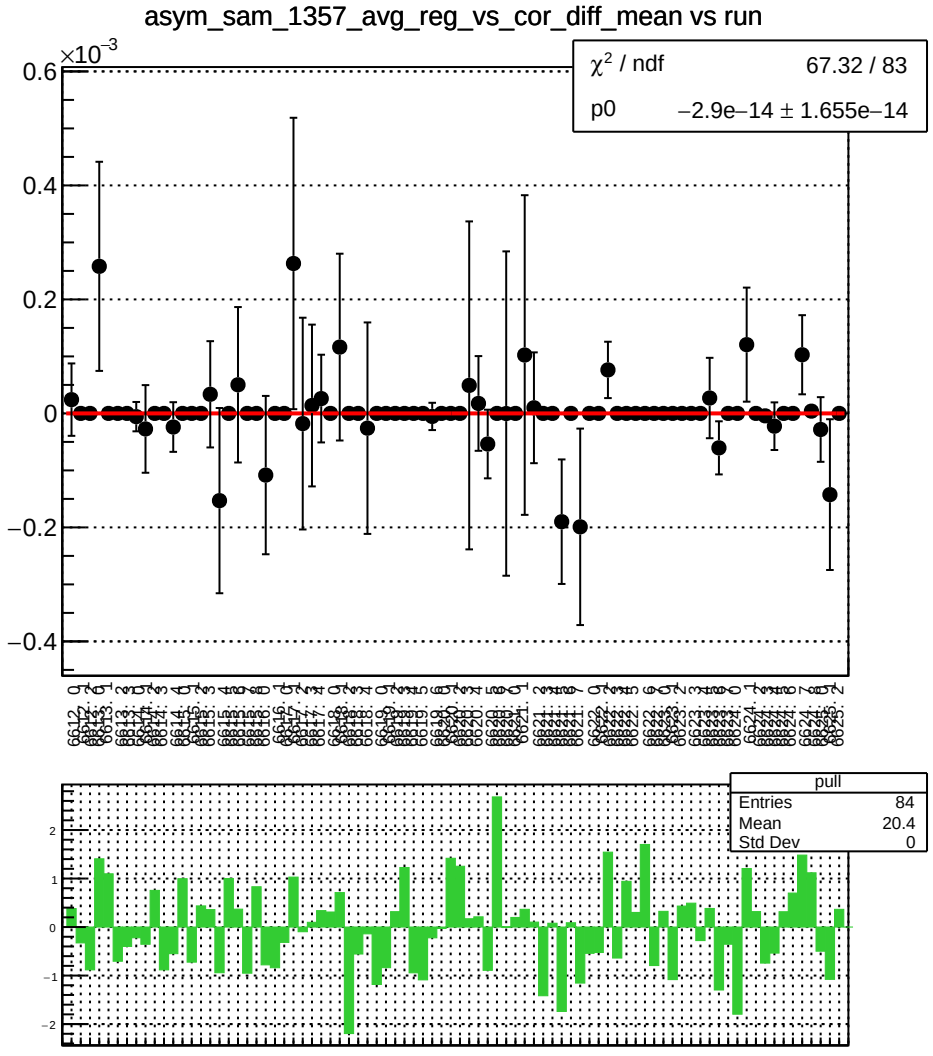

pull1D
Entries 84
Mean 0.00272
Std Dev 0.9599
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

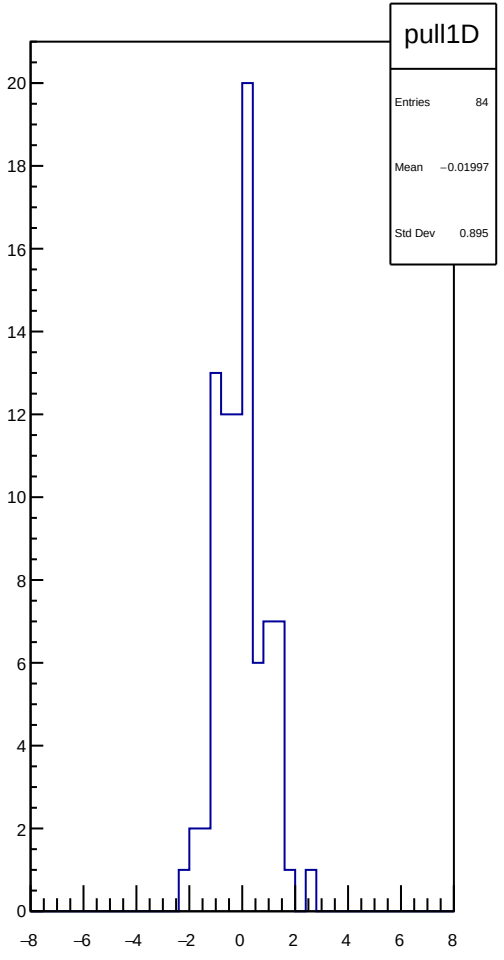

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 8614 / 83
p0 358.5 ± 0.2814
460
440
420
400
380
360
340
320

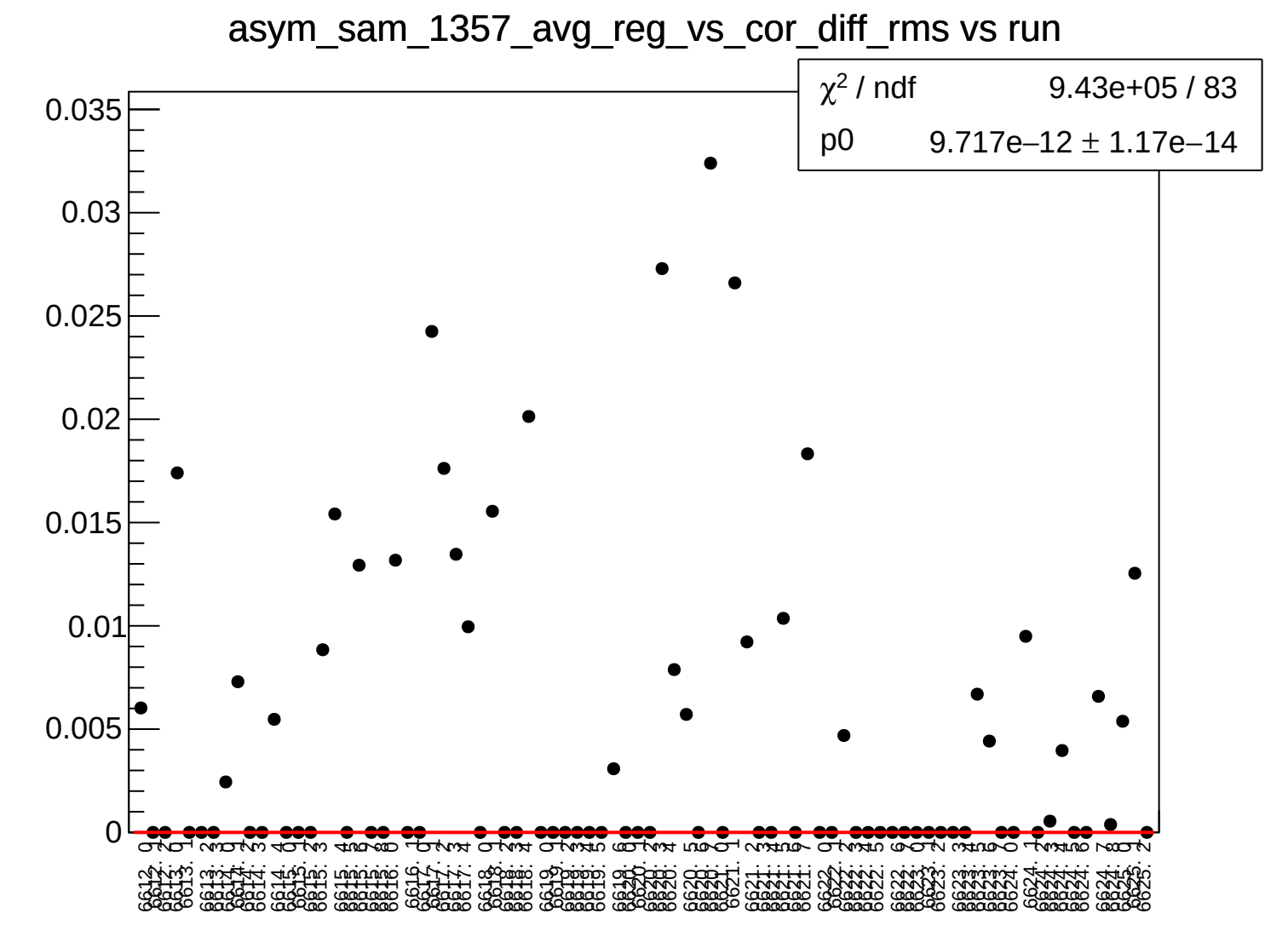

asym_sam_1357_avg_mean vs run
χ² / ndf 76.51 / 83
p0 1109 ± 417.4
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 212.3
Std Dev 139.4
2
1
0
−1
−2

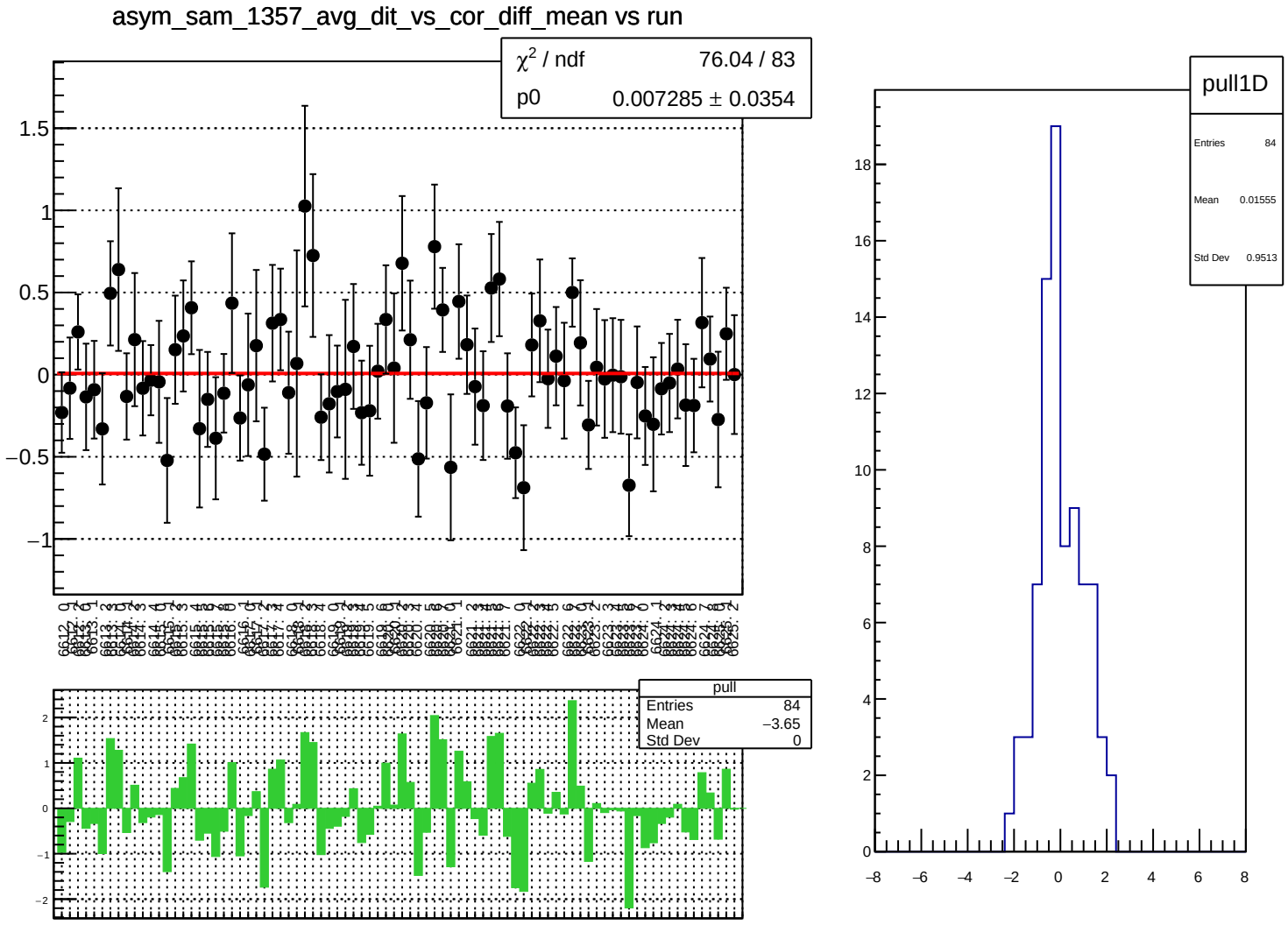

pull1D
Entries 84
Mean −0.002812
Std Dev 0.9544
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

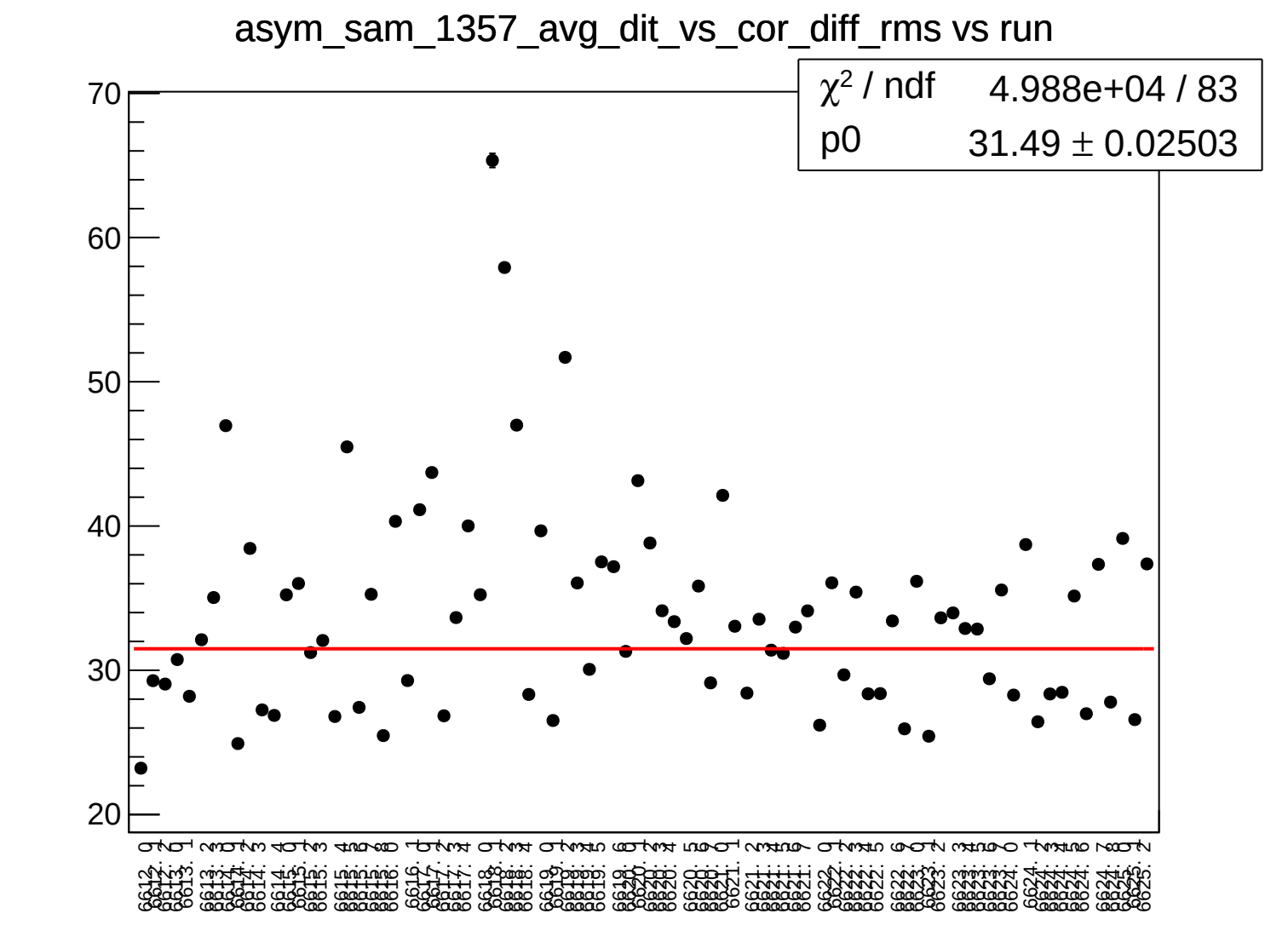

asym_sam_1357_avg_rms vs run
χ² / ndf 1.296e+04 / 83
p0 375.6 ± 0.2951
500
480
460
440
420
400
380
360
340
320

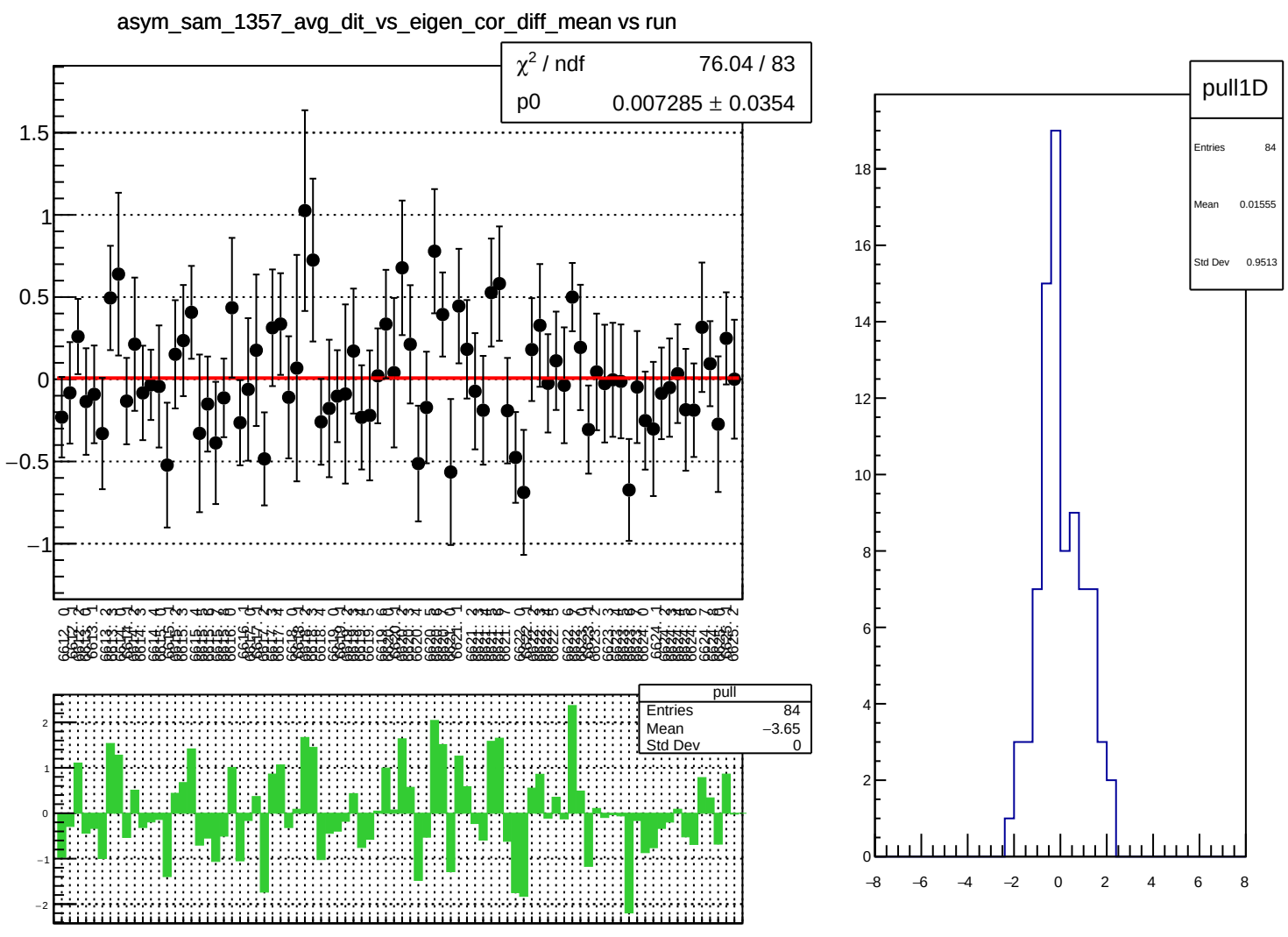

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 67.32 / 83
p0 −2.9e−14 ± 1.655e−14
pull
Entries 84
Mean 20.4
Std Dev 0

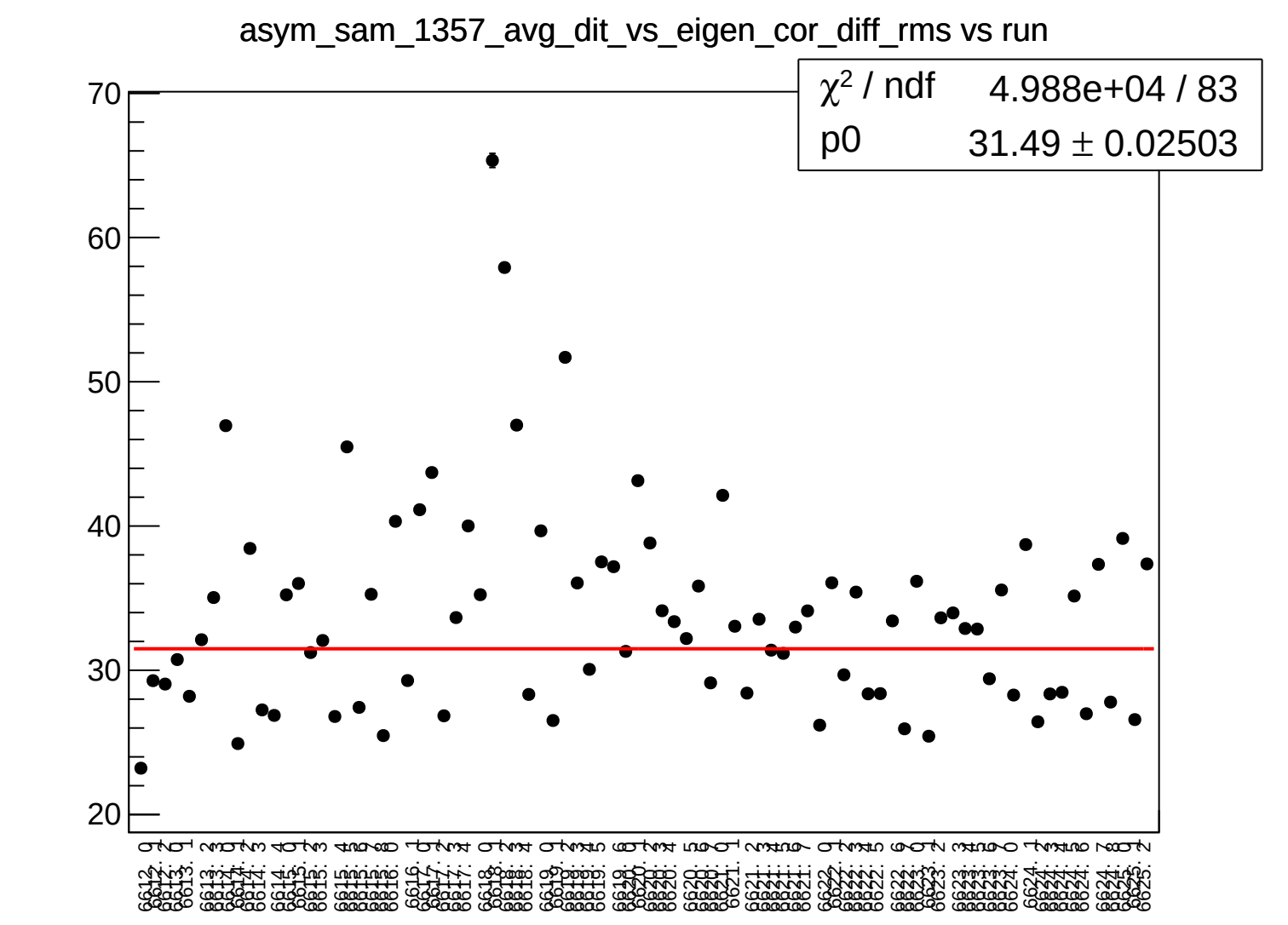

pull1D
Entries 84
Mean −0.01997
Std Dev 0.895

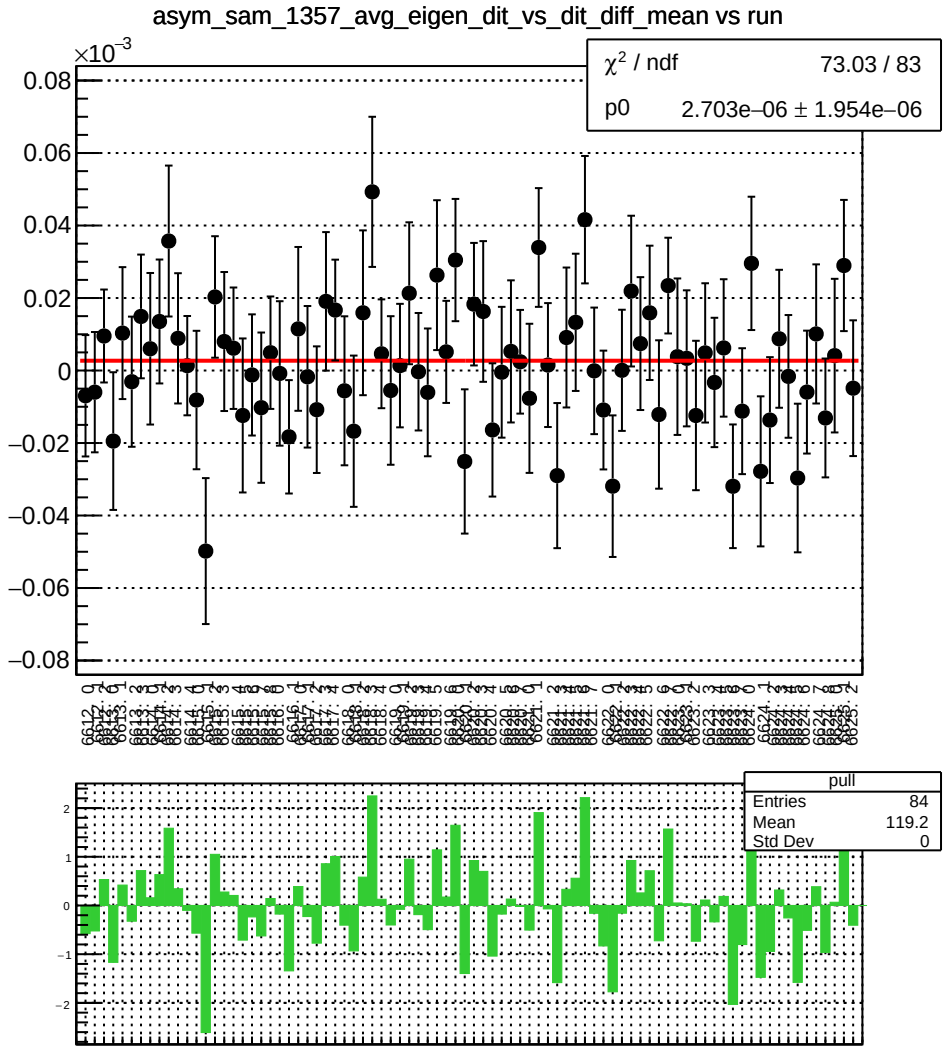

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.43e+05 / 83
p0 9.717e−12 ± 1.17e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

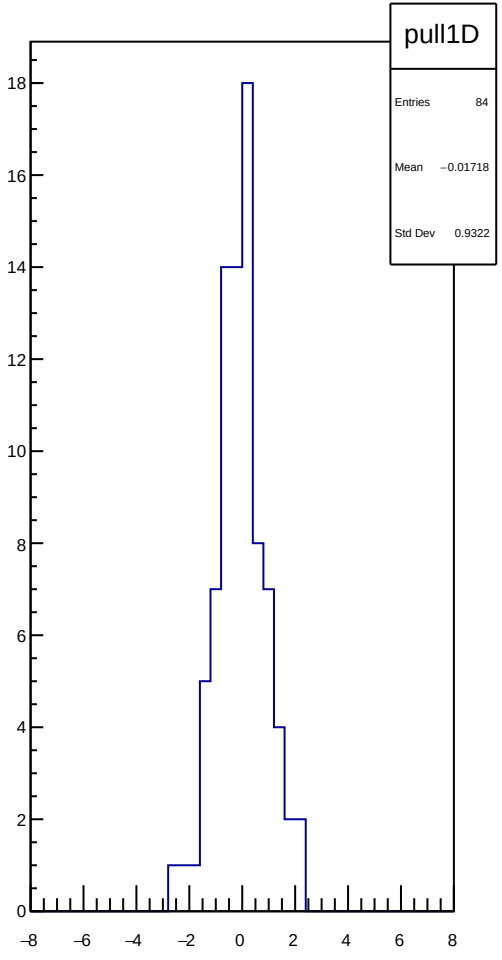

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.04 / 83
p0 0.007285 ± 0.0354
pull
Entries 84
Mean −3.65
Std Dev 0
pull1D
Entries 84
Mean 0.01555
Std Dev 0.9513

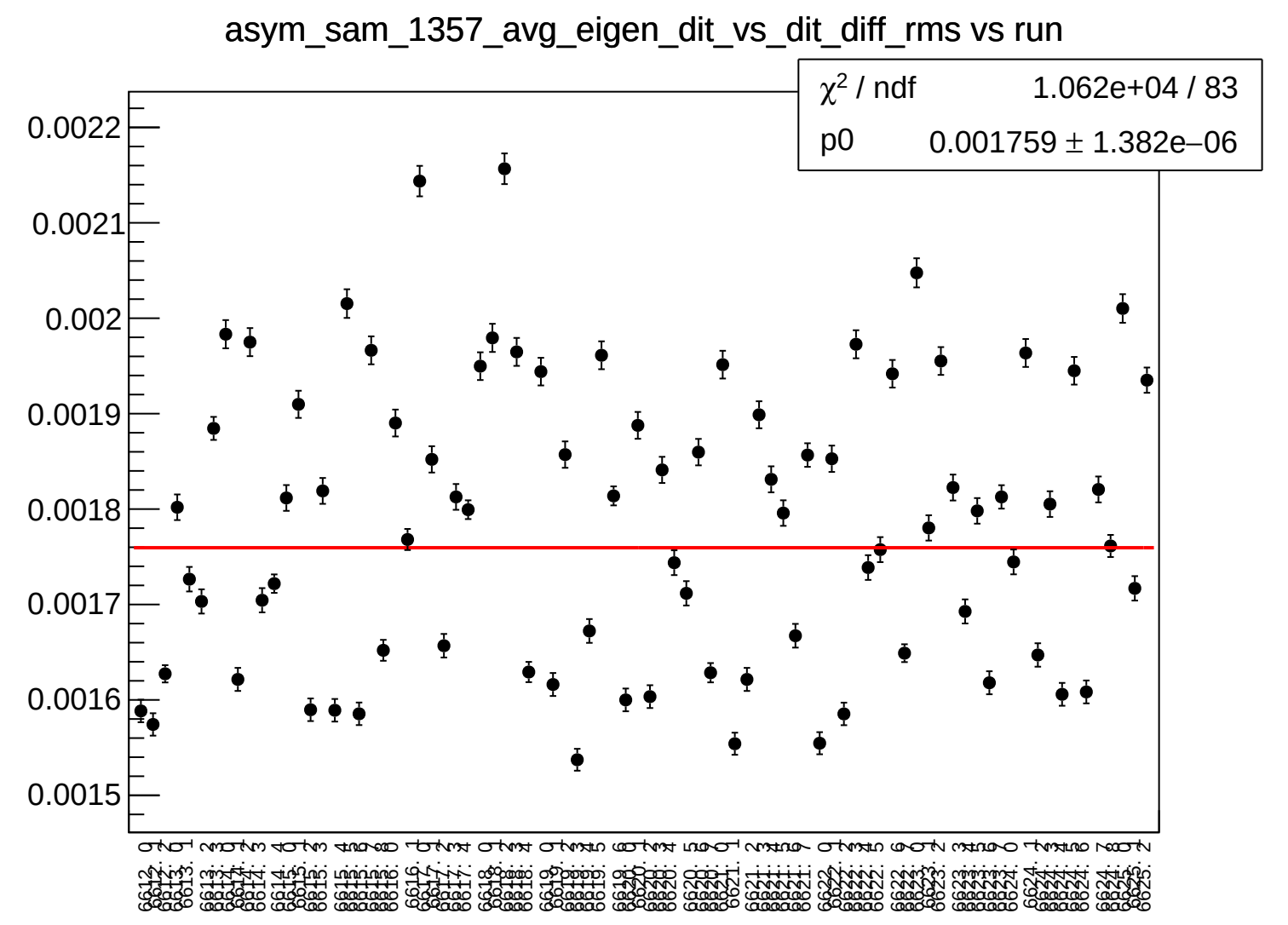

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.988e+04 / 83
p0 31.49 ± 0.02503
70
60
50
40
30
20

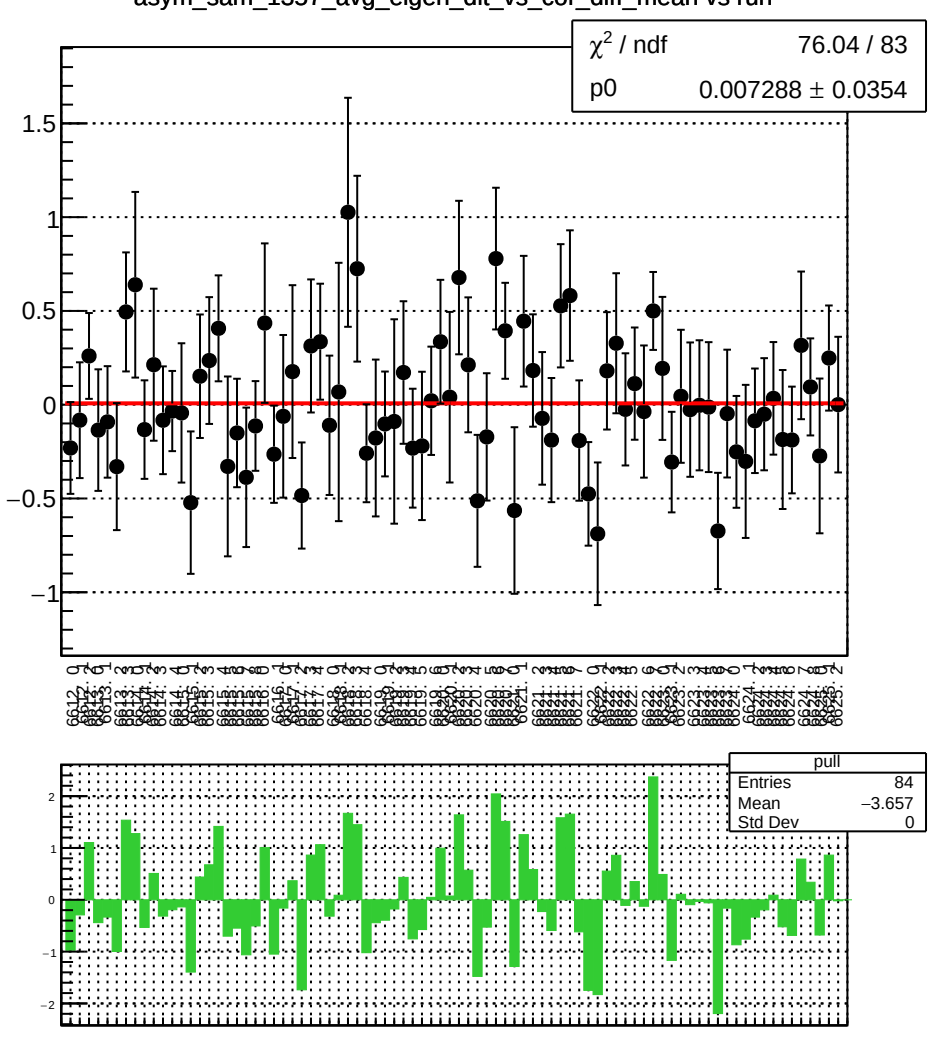

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.04 / 83
p0 0.007285 ± 0.0354
pull
Entries 84
Mean −3.65
Std Dev 0
pull1D
Entries 84
Mean 0.01555
Std Dev 0.9513

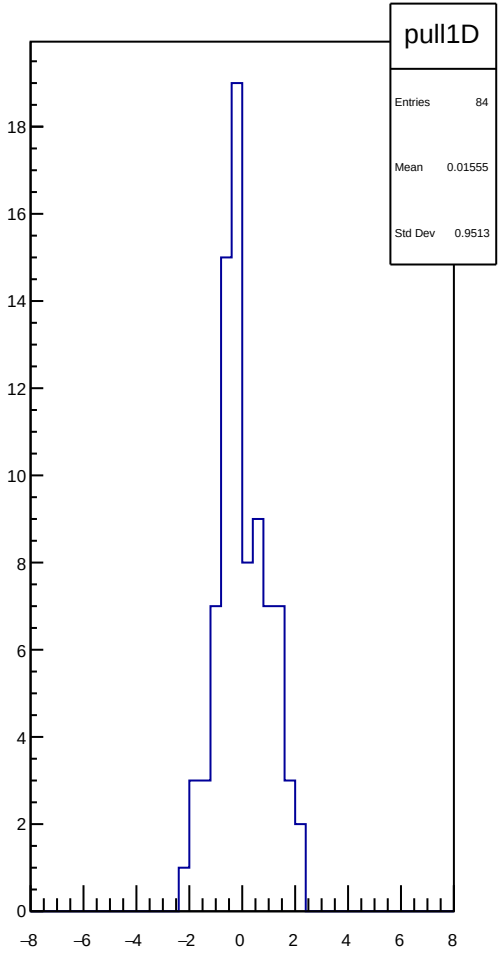

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.988e+04 / 83
p0 31.49 ± 0.02503
70
60
50
40
30
20

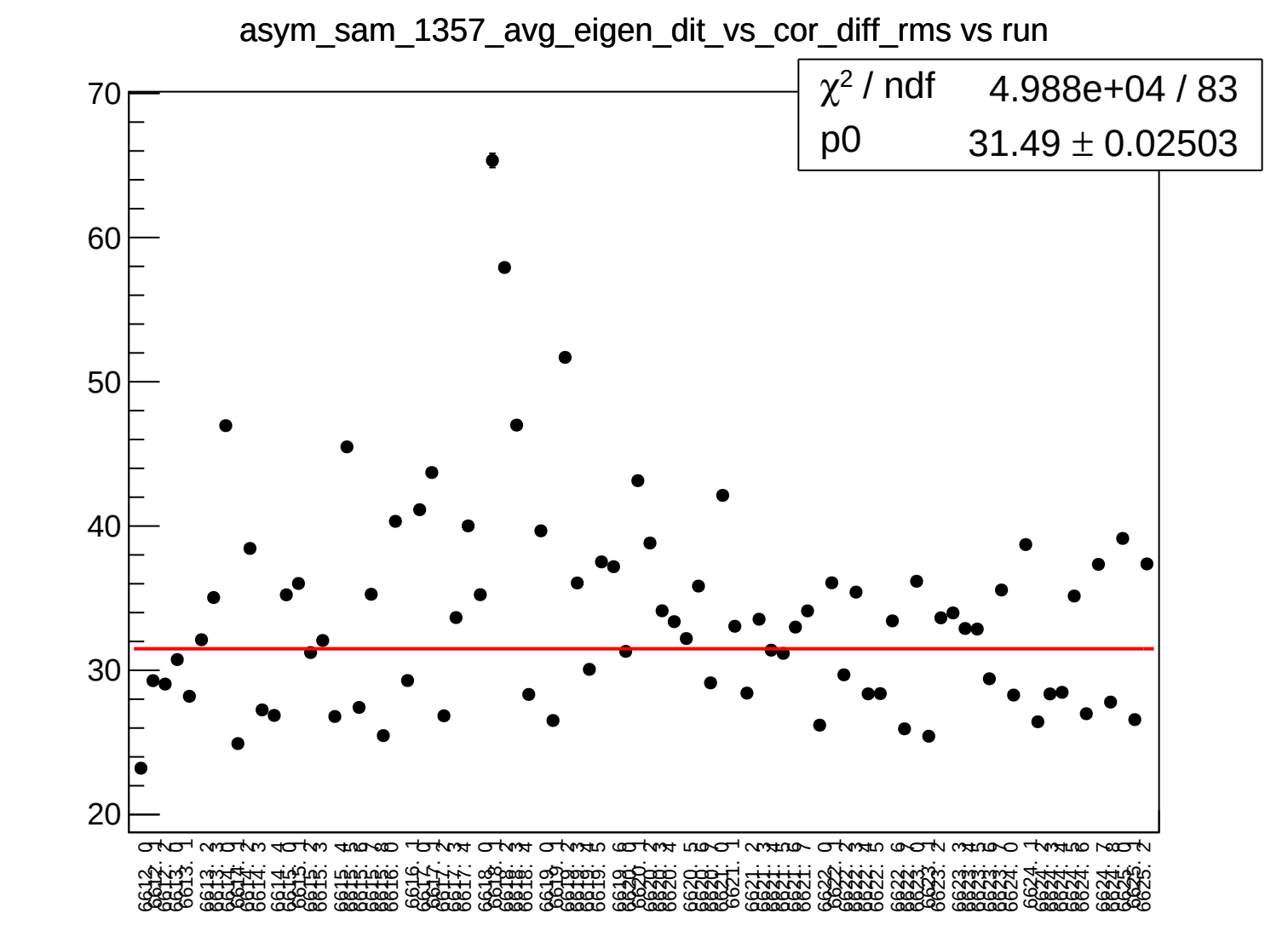

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.03 / 83
p0 2.703e−06 ± 1.954e−06
pull
Entries 84
Mean 119.2
Std Dev 0

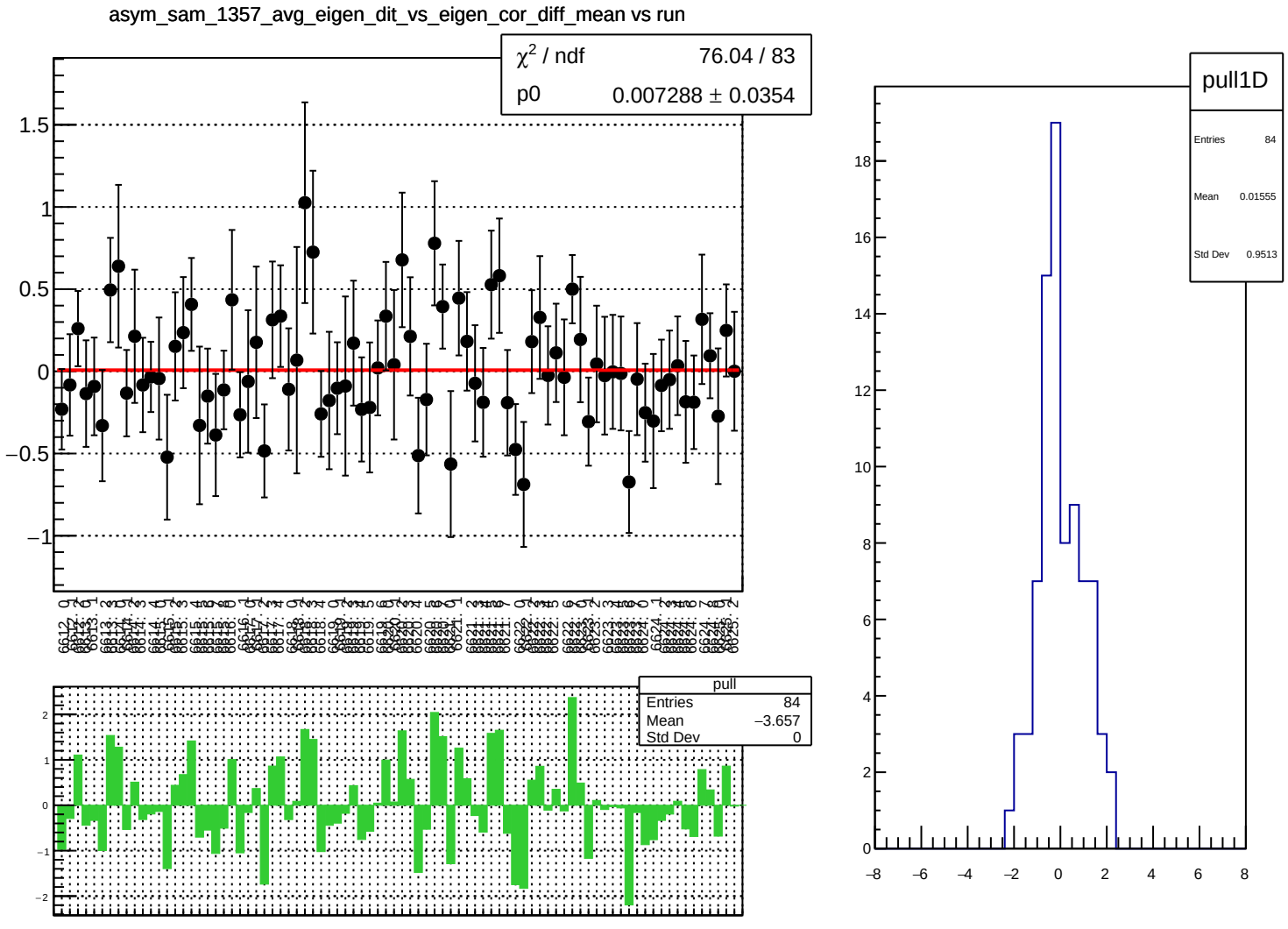

pull1D
Entries 84
Mean −0.01718
Std Dev 0.9322

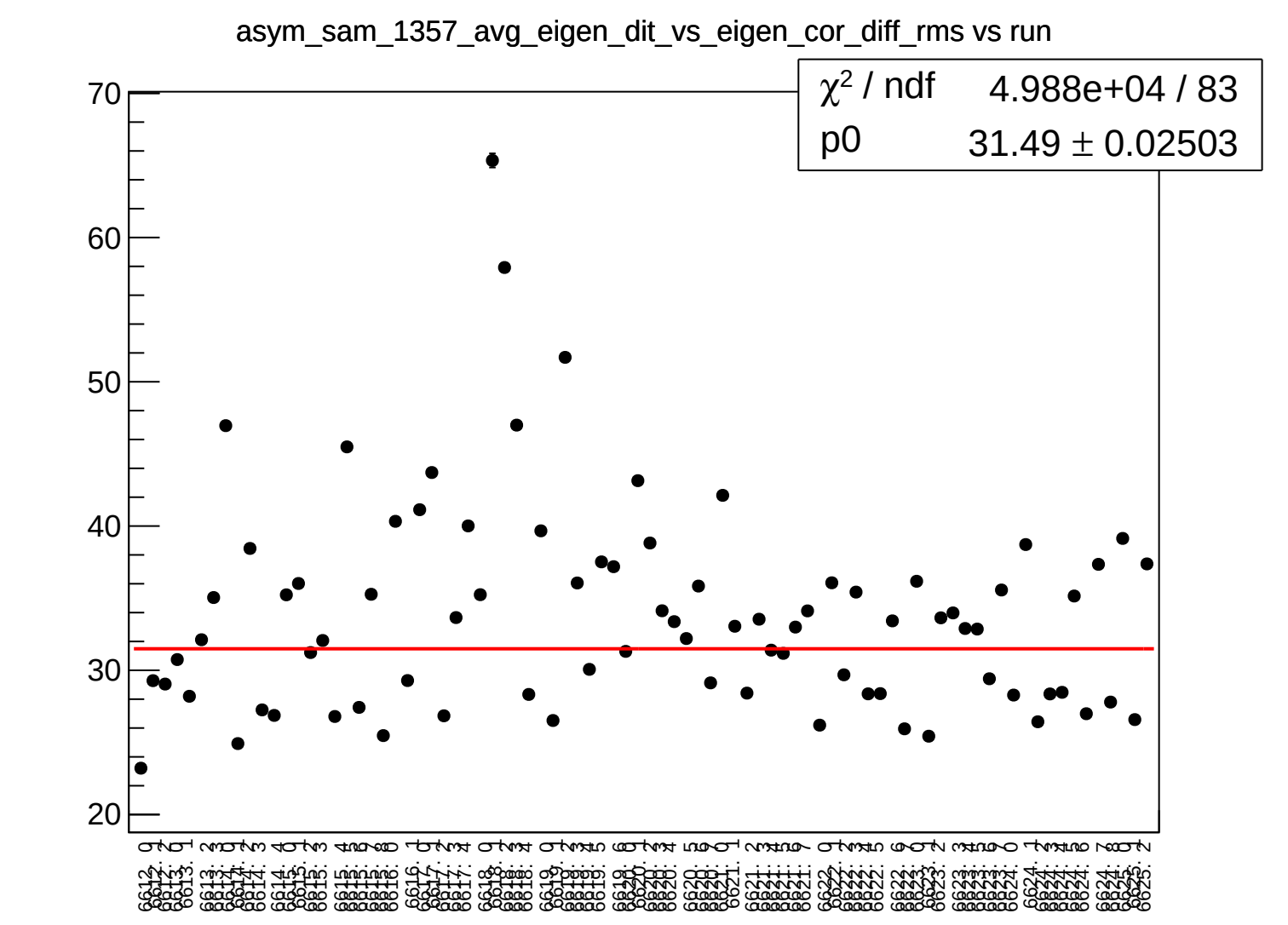

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.062e+04 / 83
p0 0.001759 ± 1.382e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

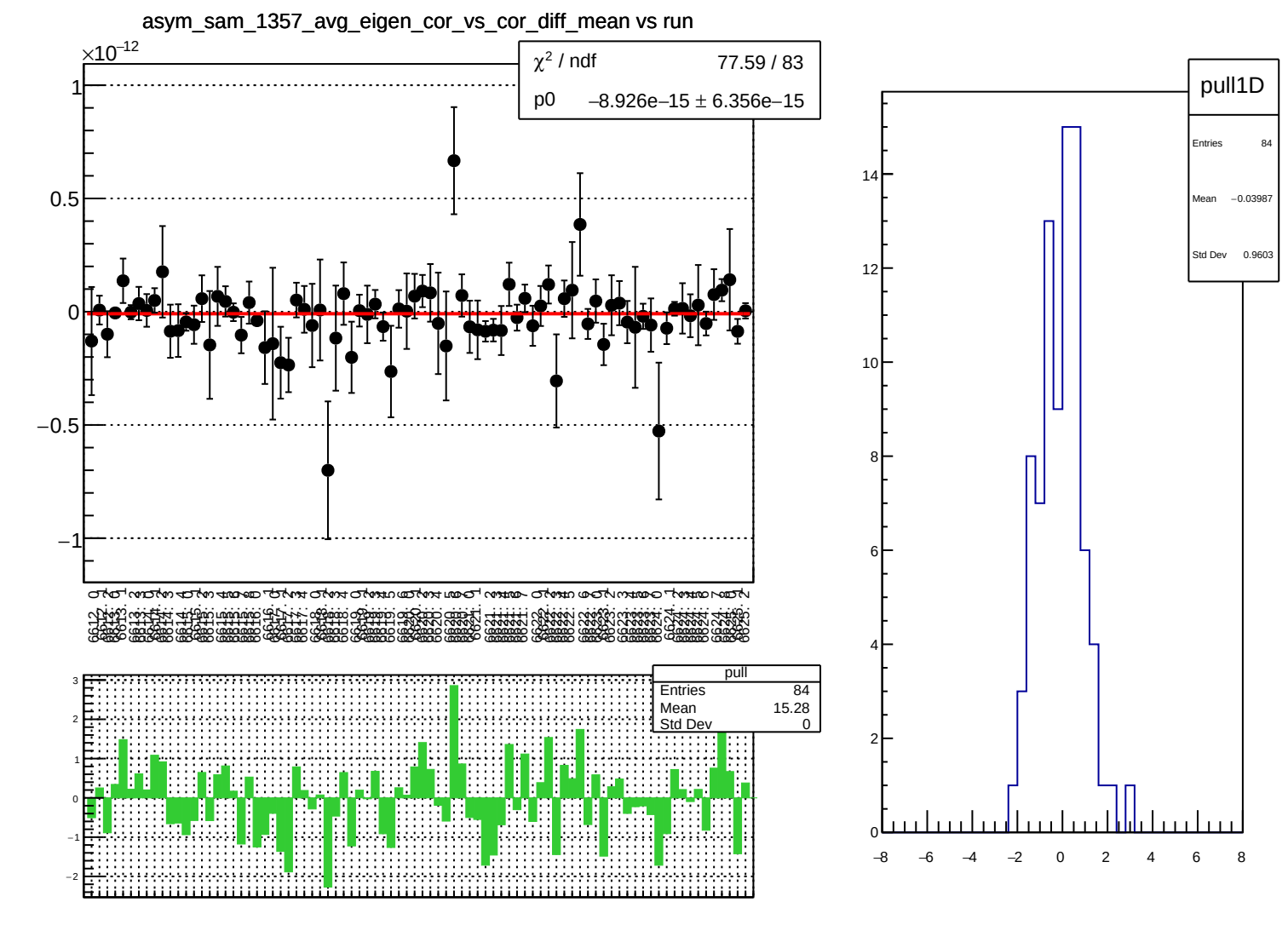

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.04 / 83
p0 0.007288 ± 0.0354
pull
Entries 84
Mean −3.657
Std Dev 0

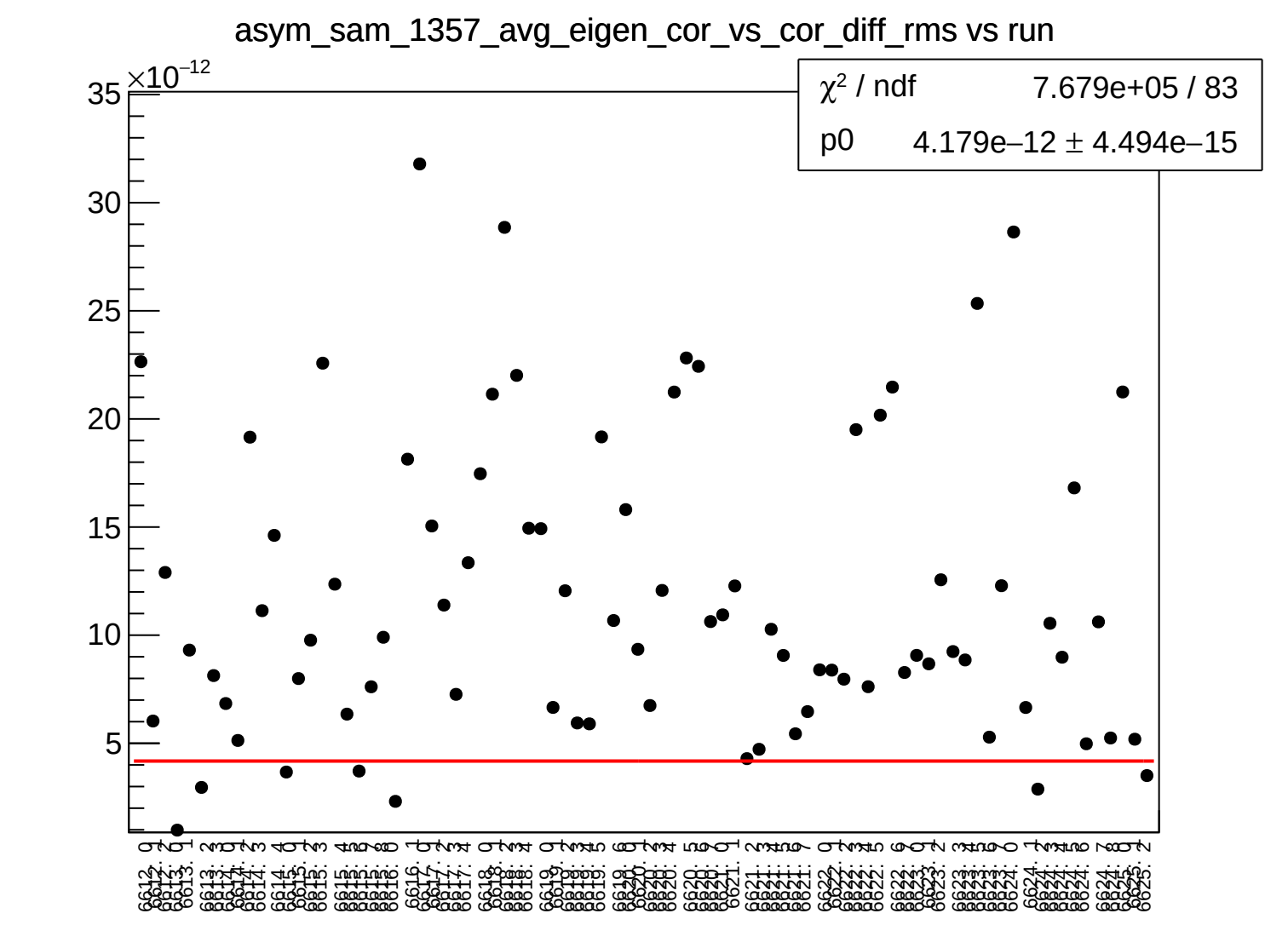

pull1D
Entries 84
Mean 0.01555
Std Dev 0.9513

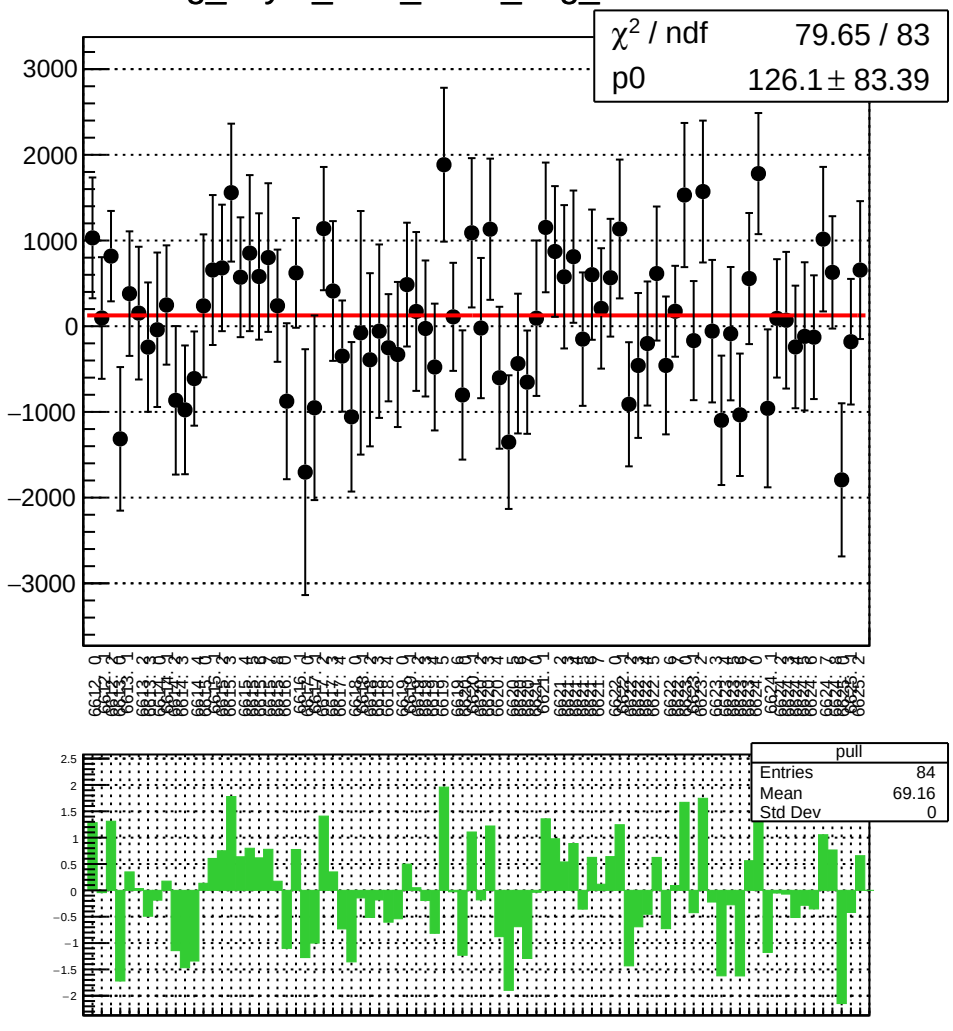

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.988e+04 / 83
p0 31.49 ± 0.02503
70
60
50
40
30
20

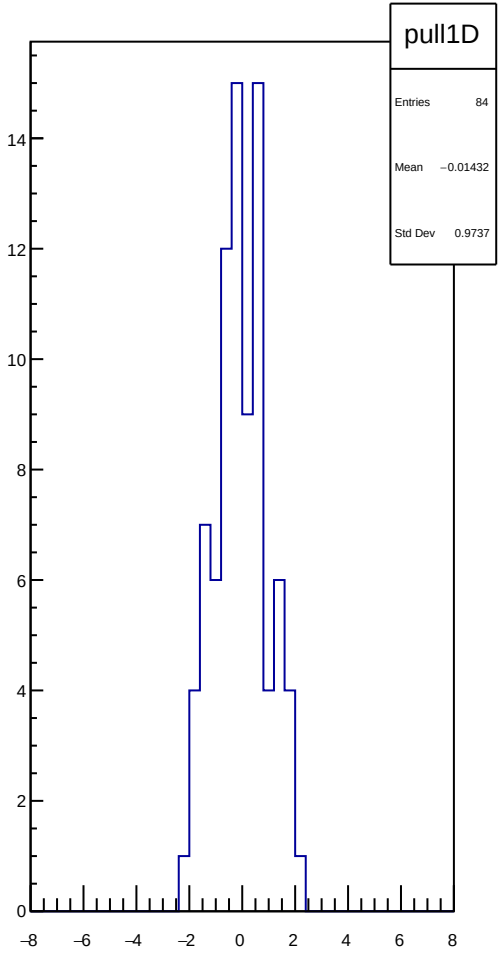

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.04 / 83
p0 0.007288 ± 0.0354
pull
Entries 84
Mean −3.657
Std Dev 0
pull1D
Entries 84
Mean 0.01555
Std Dev 0.9513

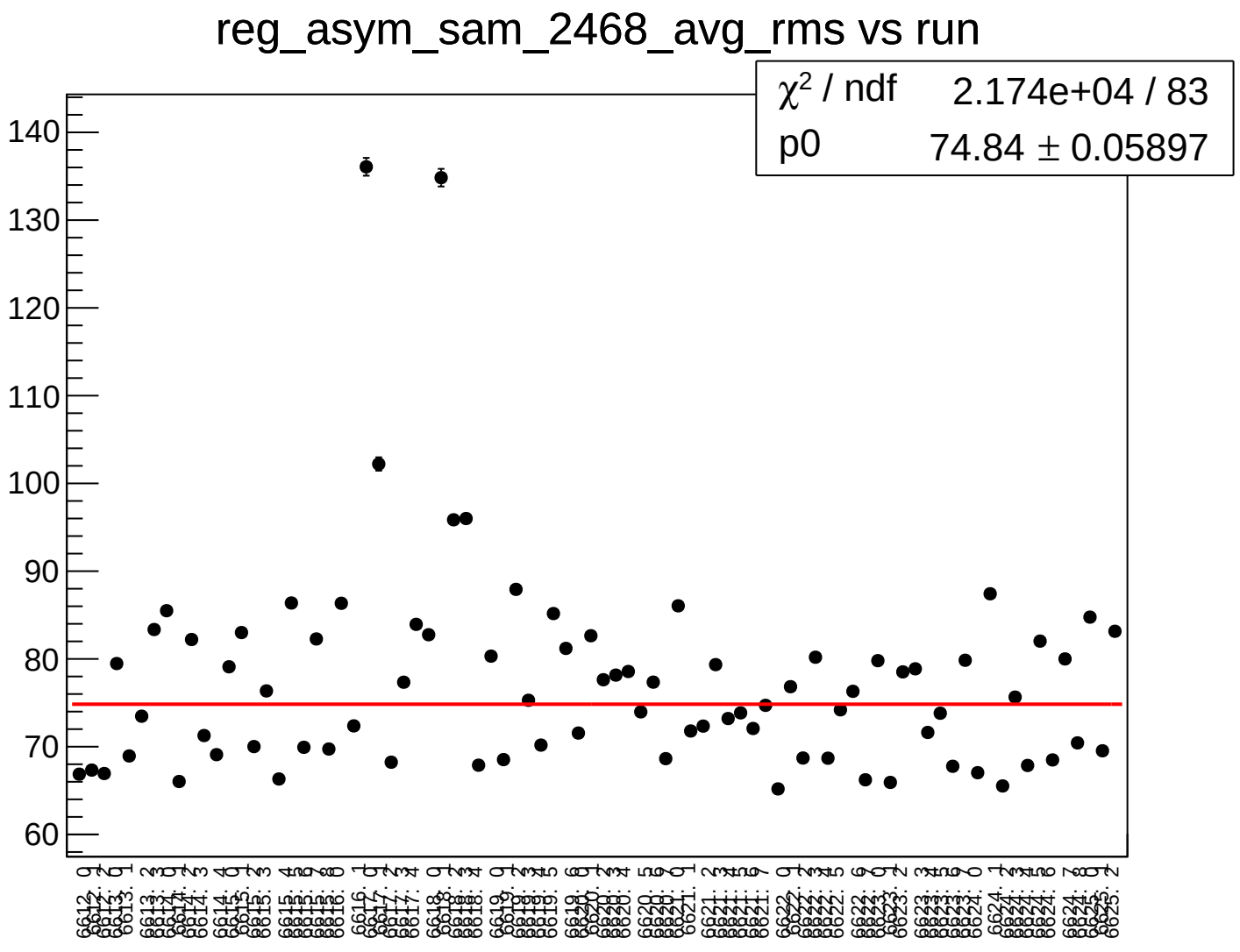

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.988e+04 / 83
p0 31.49 ± 0.02503
70
60
50
40
30
20

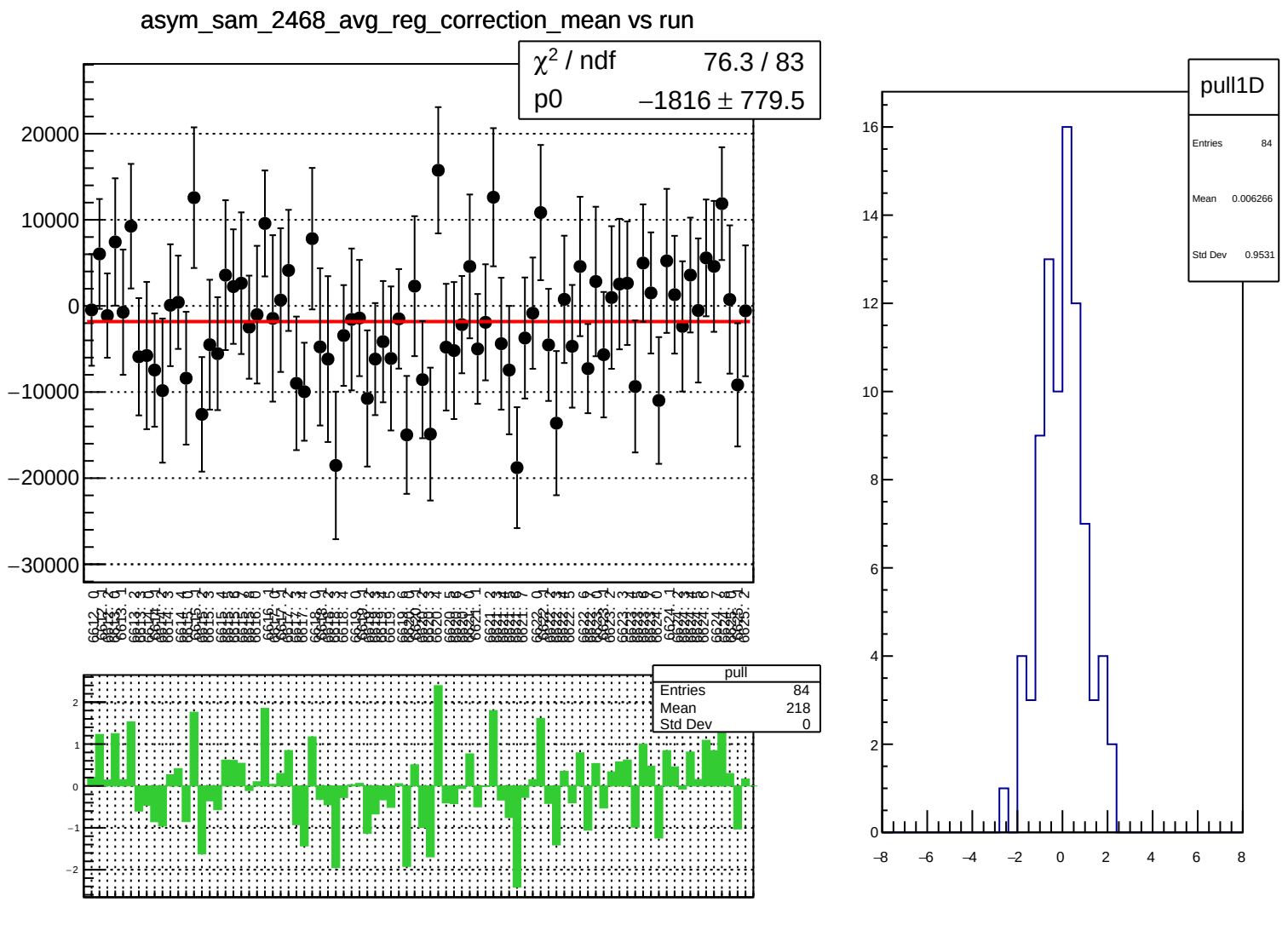

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 77.59 / 83
p0 −8.926e−15 ± 6.356e−15
pull
Entries 84
Mean 15.28
Std Dev 0
pull1D
Entries 84
Mean −0.03987
Std Dev 0.9603

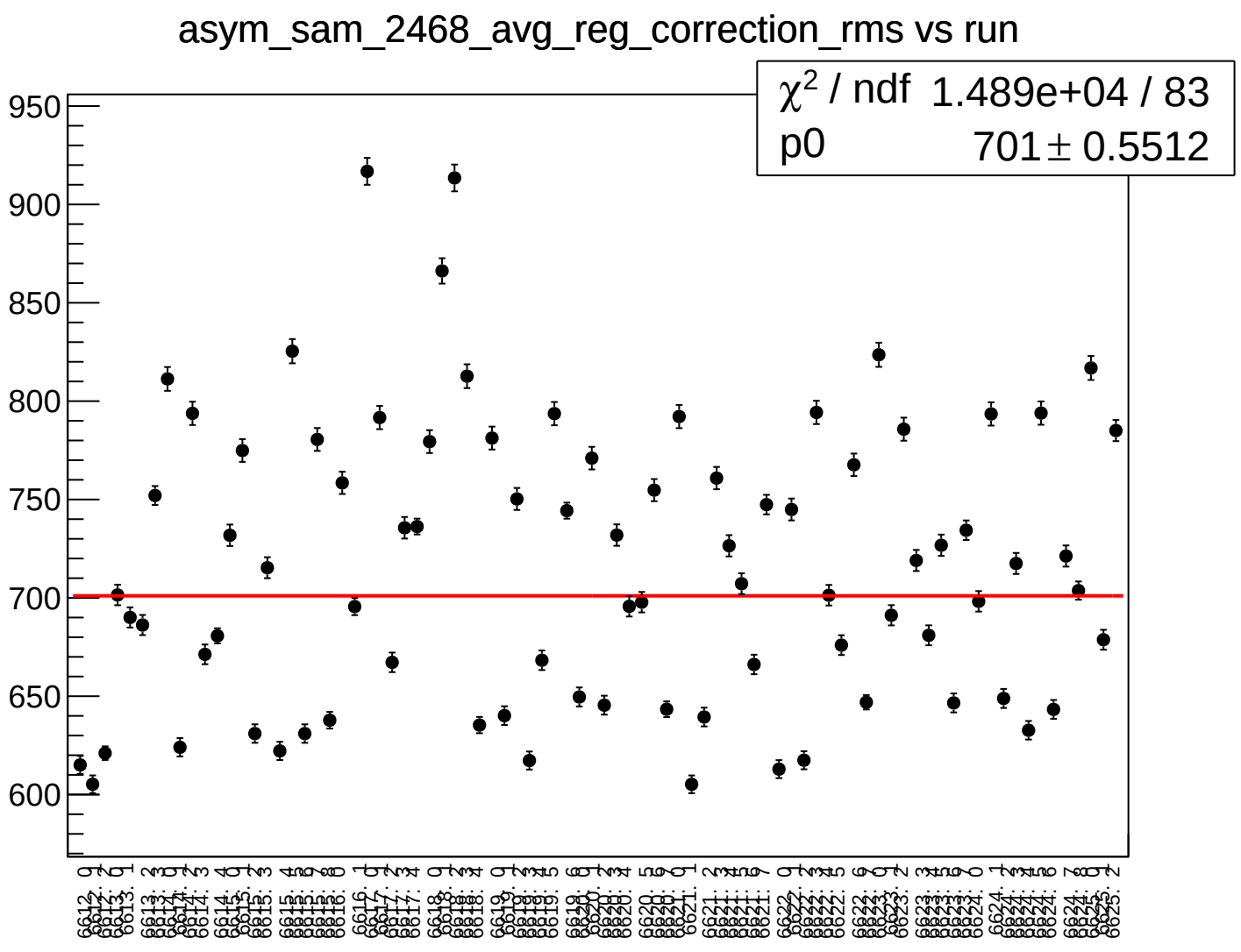

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
$\times 10^{-12}$
χ^2 / ndf 7.679e+05 / 83
p0 4.179e−12 ± 4.494e−15
35
30
25
20
15
10
5

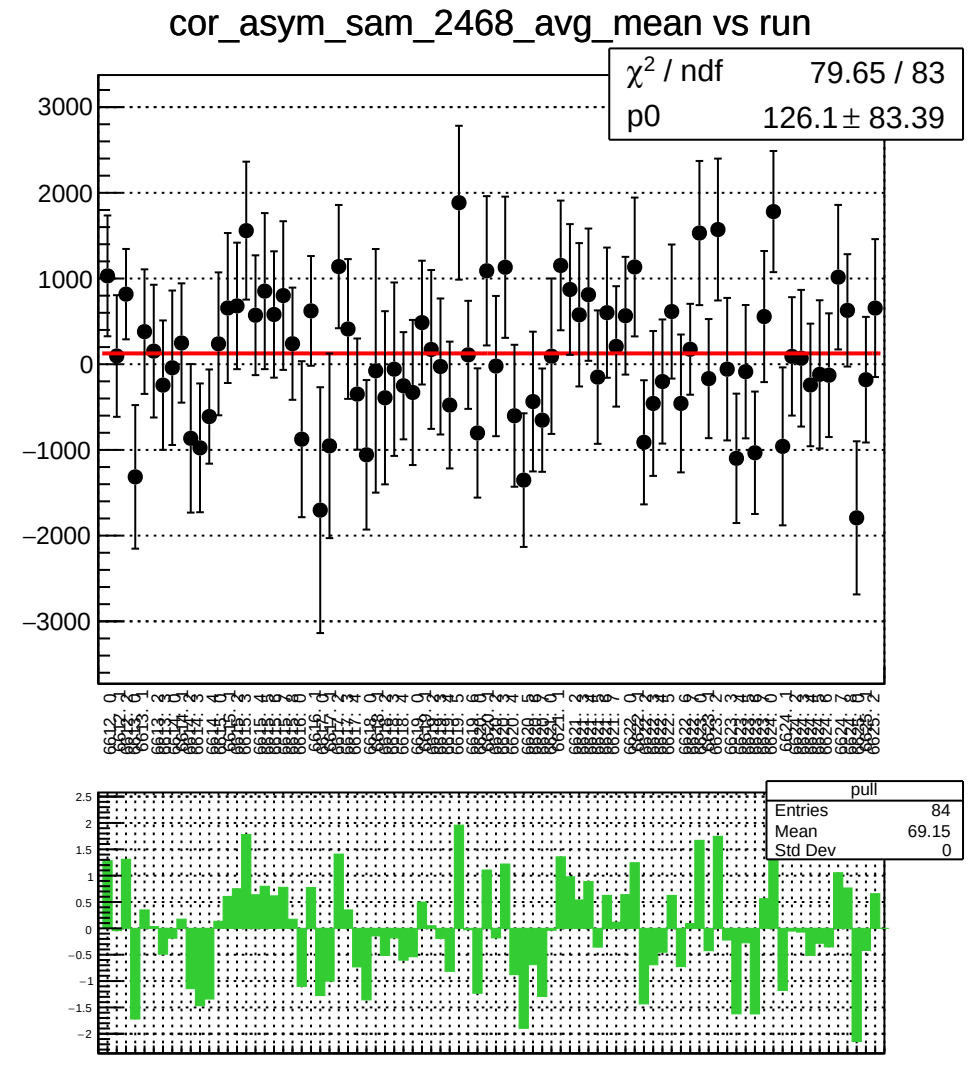

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 79.65 / 83
p0 126.1 ± 83.39
pull
Entries 84
Mean 69.16
Std Dev 0

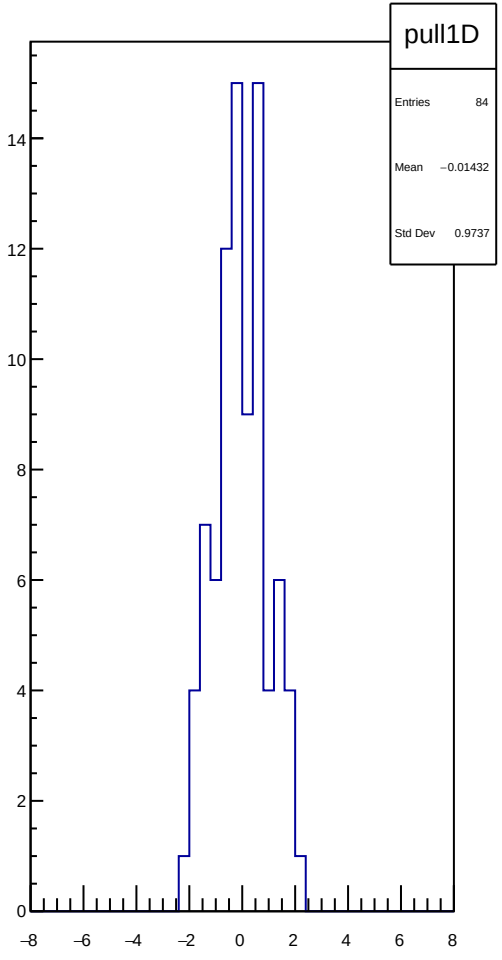

pull1D
Entries 84
Mean −0.01432
Std Dev 0.9737

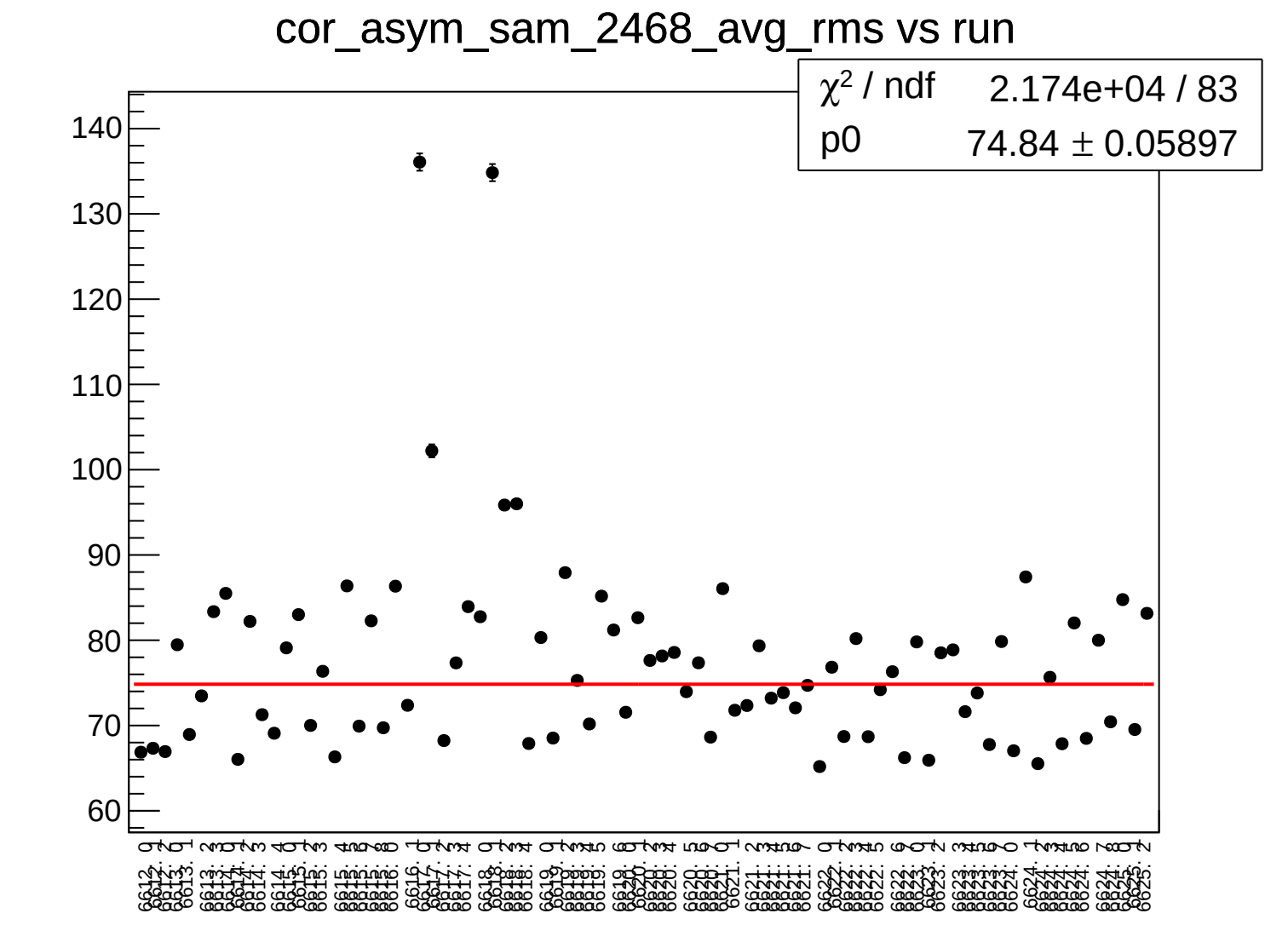

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 2.174e+04 / 83
p0 74.84 ± 0.05897
140
130
120
110
100
90
80
70
60

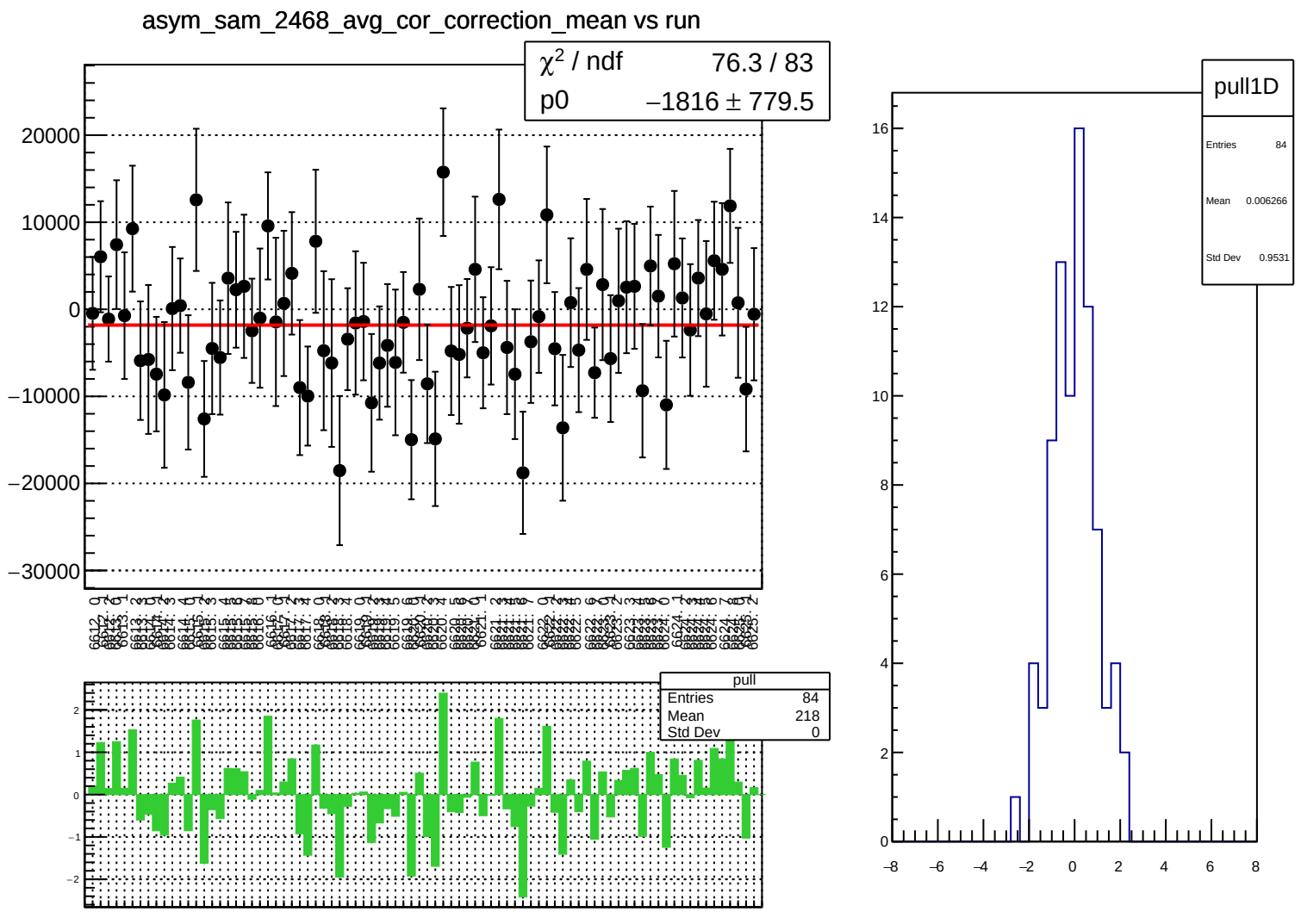

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 76.3 / 83
p0 −1816 ± 779.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 218
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.006266
Std Dev 0.9531
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

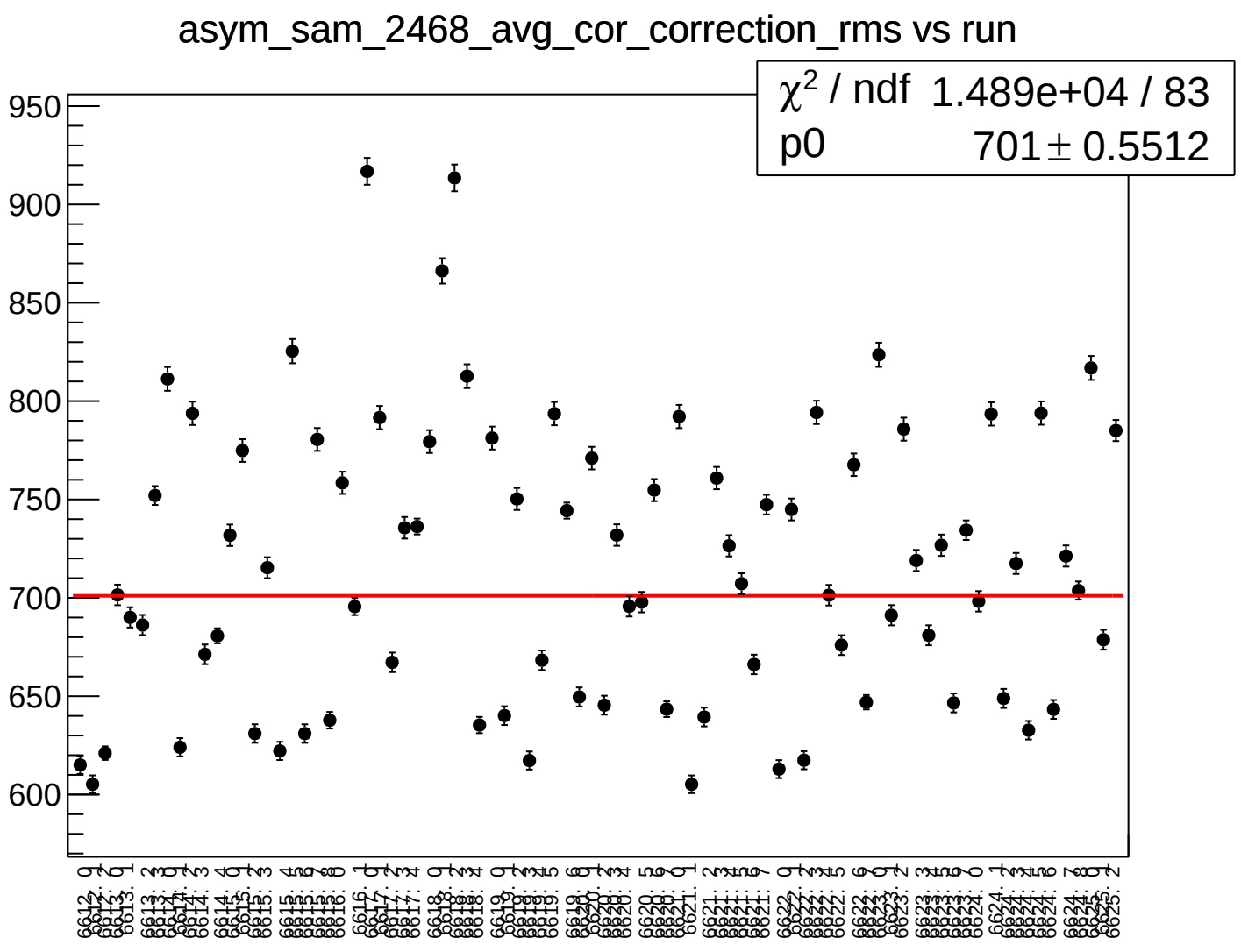

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1.489e+04 / 83
p0 701 ± 0.5512
950
900
850
800
750
700
650
600

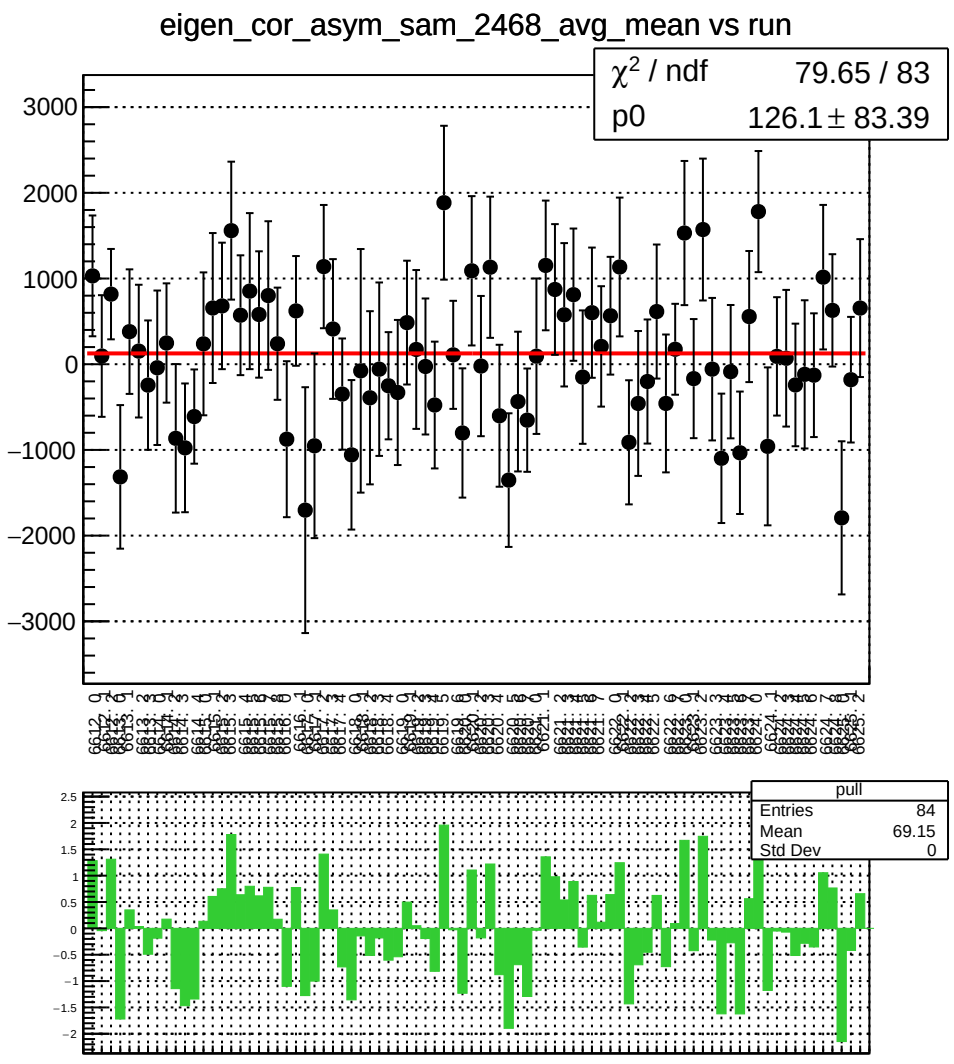

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 79.65 / 83
p0 126.1 ± 83.39
pull
Entries 84
Mean 69.15
Std Dev 0

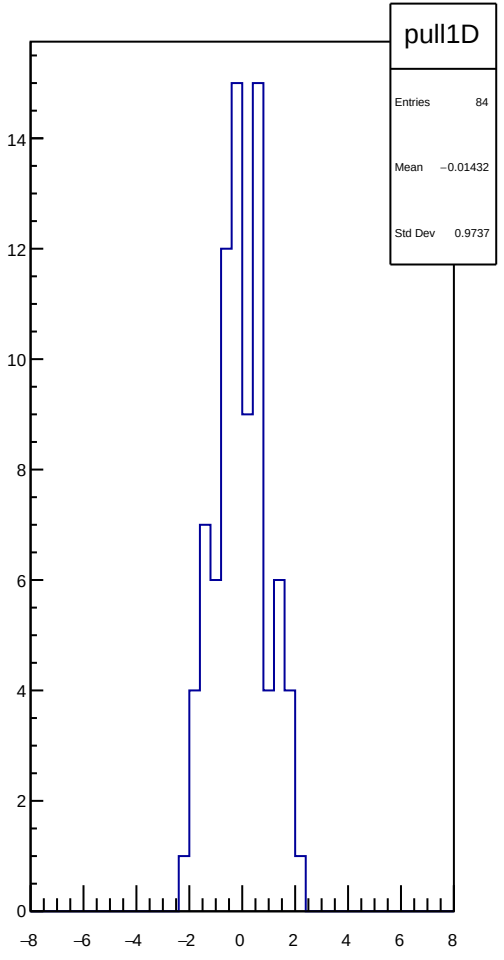

pull1D
Entries 84
Mean −0.01432
Std Dev 0.9737

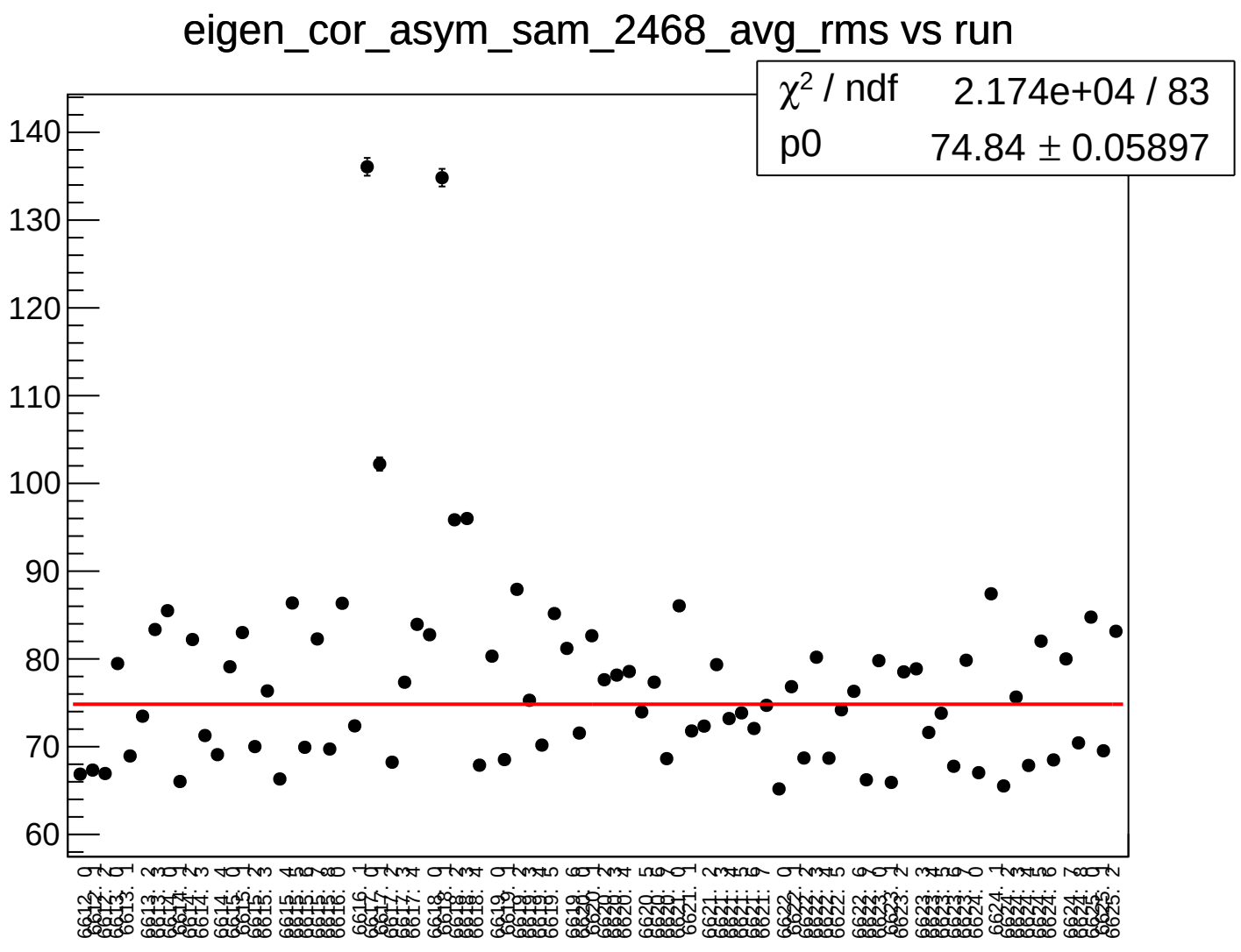

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.174e+04 / 83
p0 74.84 ± 0.05897
140
130
120
110
100
90
80
70
60

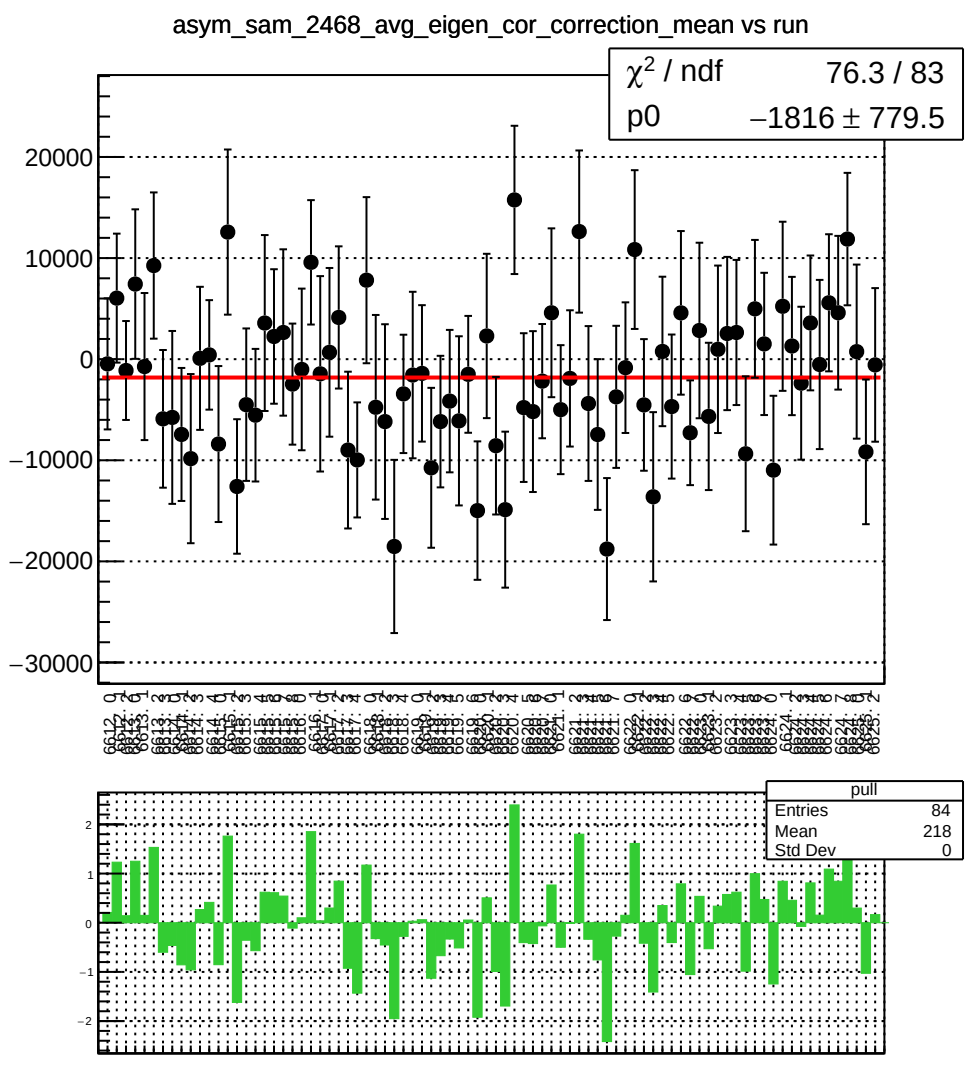

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 76.3 / 83
p0 −1816 ± 779.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 218
Std Dev 0
pull1D
Entries 84
Mean 0.006266
Std Dev 0.9531
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

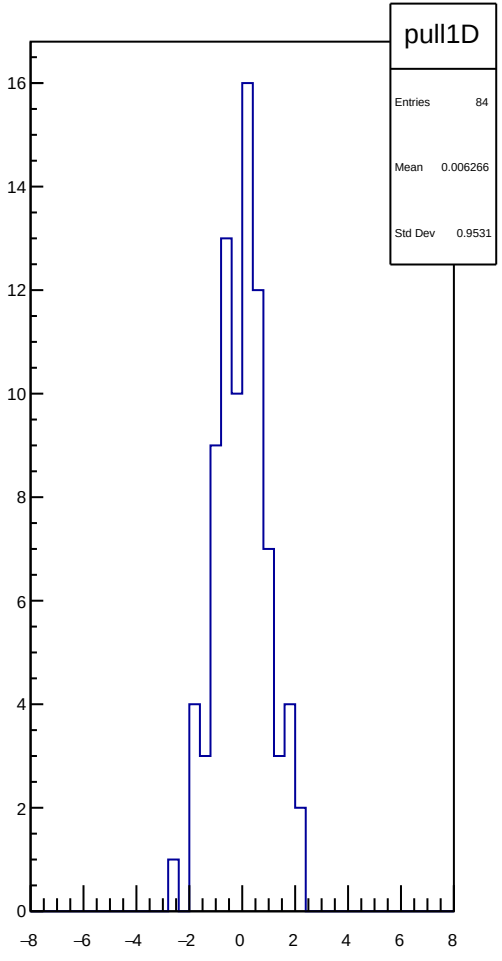

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1.489e+04 / 83
p0 701 ± 0.5512
950
900
850
800
750
700
650
600

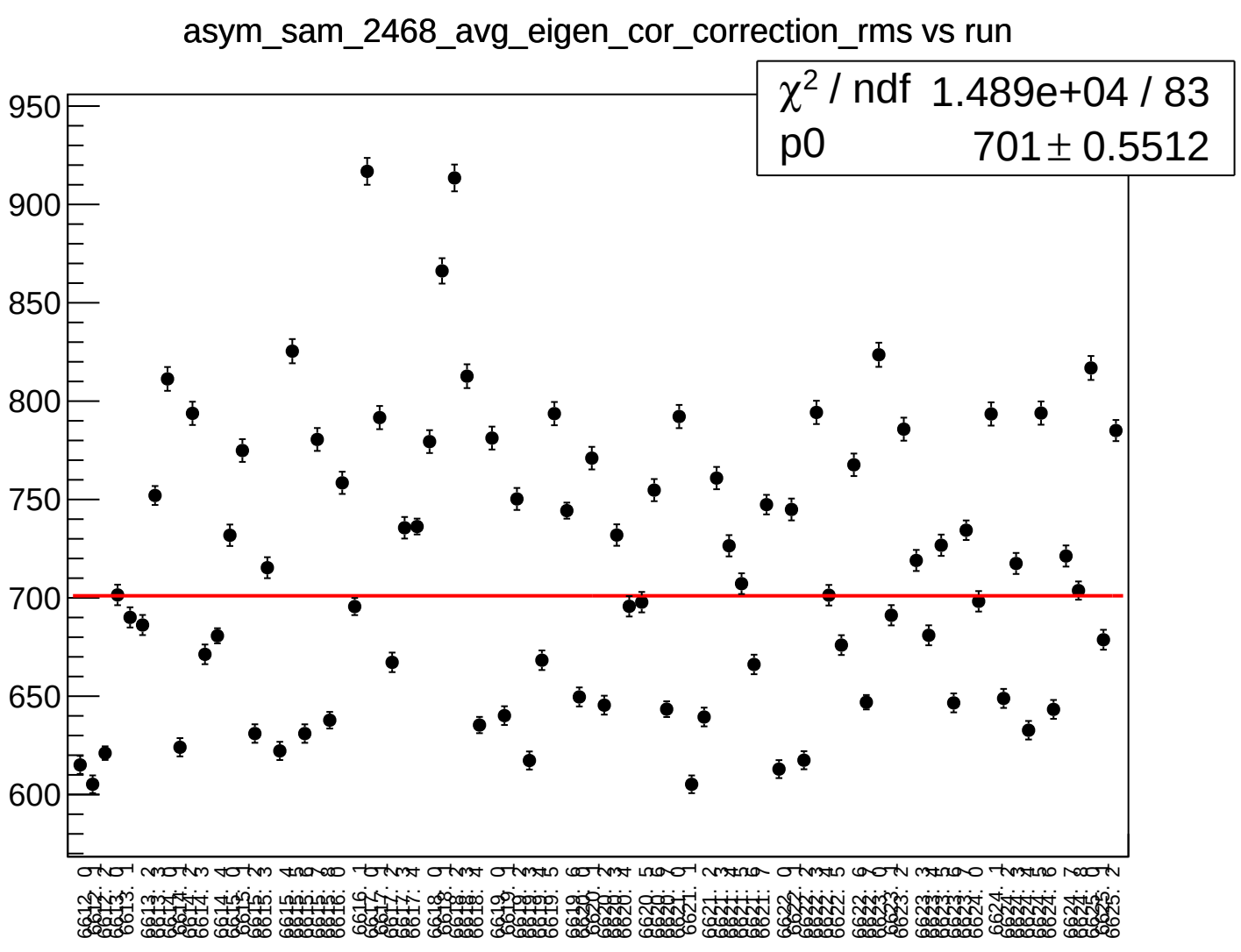

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 79.65 / 83
p0 126.1 ± 83.39
pull
Entries 84
Mean 69.15
Std Dev 0

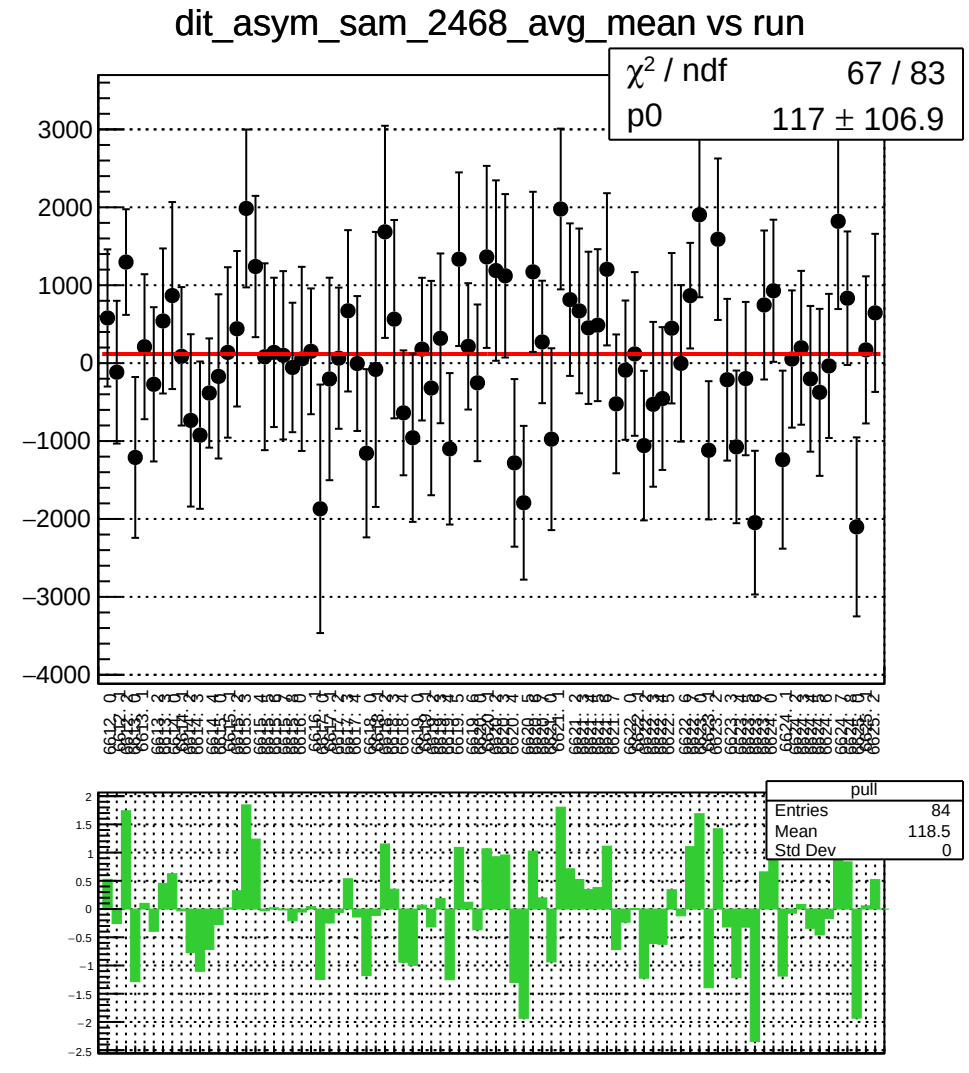

pull1D
Entries 84
Mean −0.01432
Std Dev 0.9737

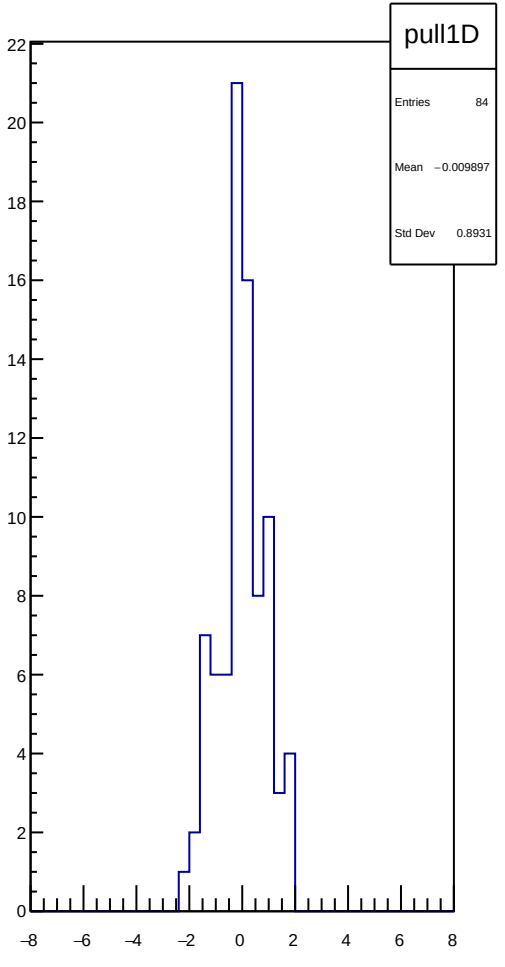

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.174e+04 / 83
p0 74.84 ± 0.05897
140
130
120
110
100
90
80
70
60

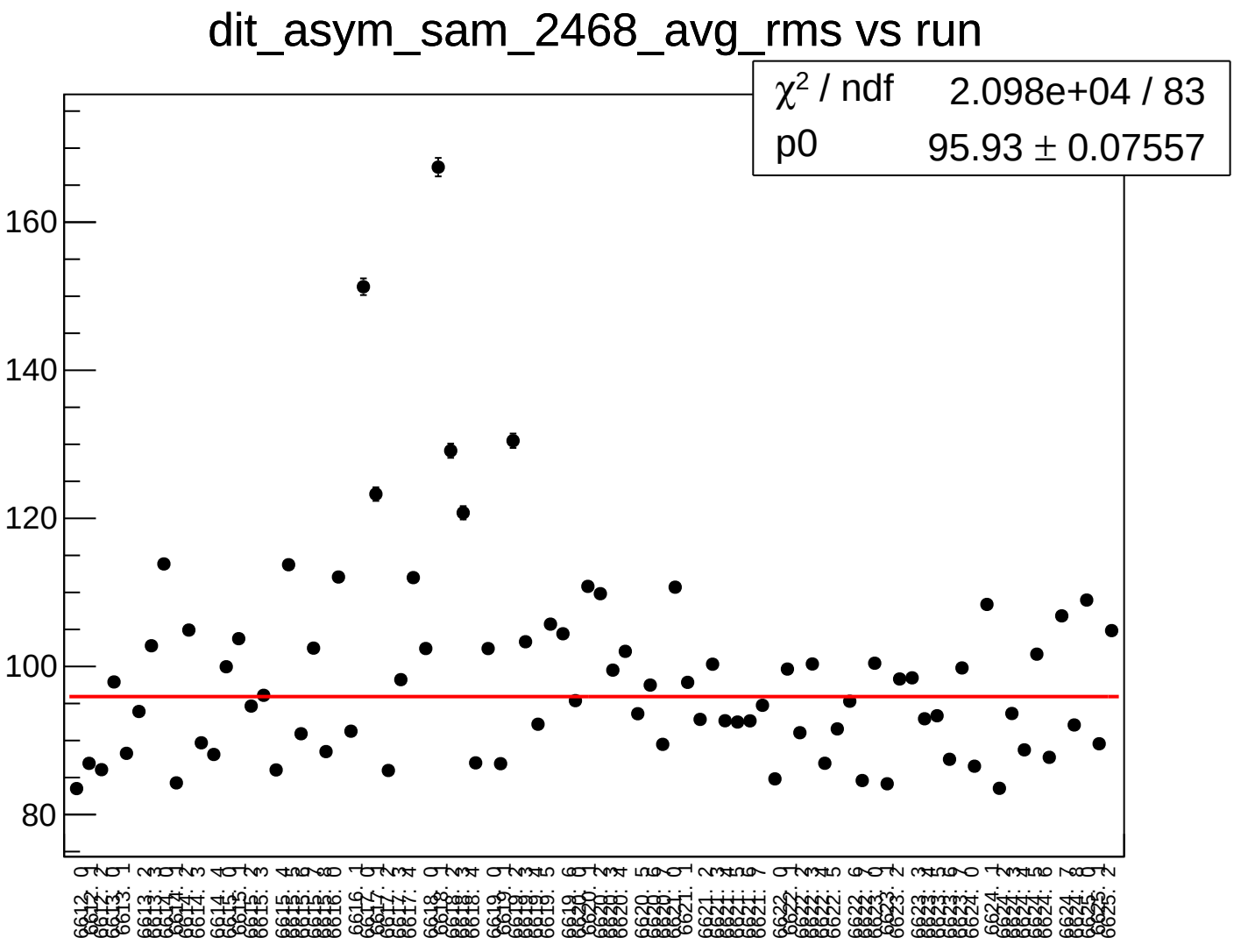

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.3 / 83
p0 −1816 ± 779.5
pull
Entries 84
Mean 218
Std Dev 0

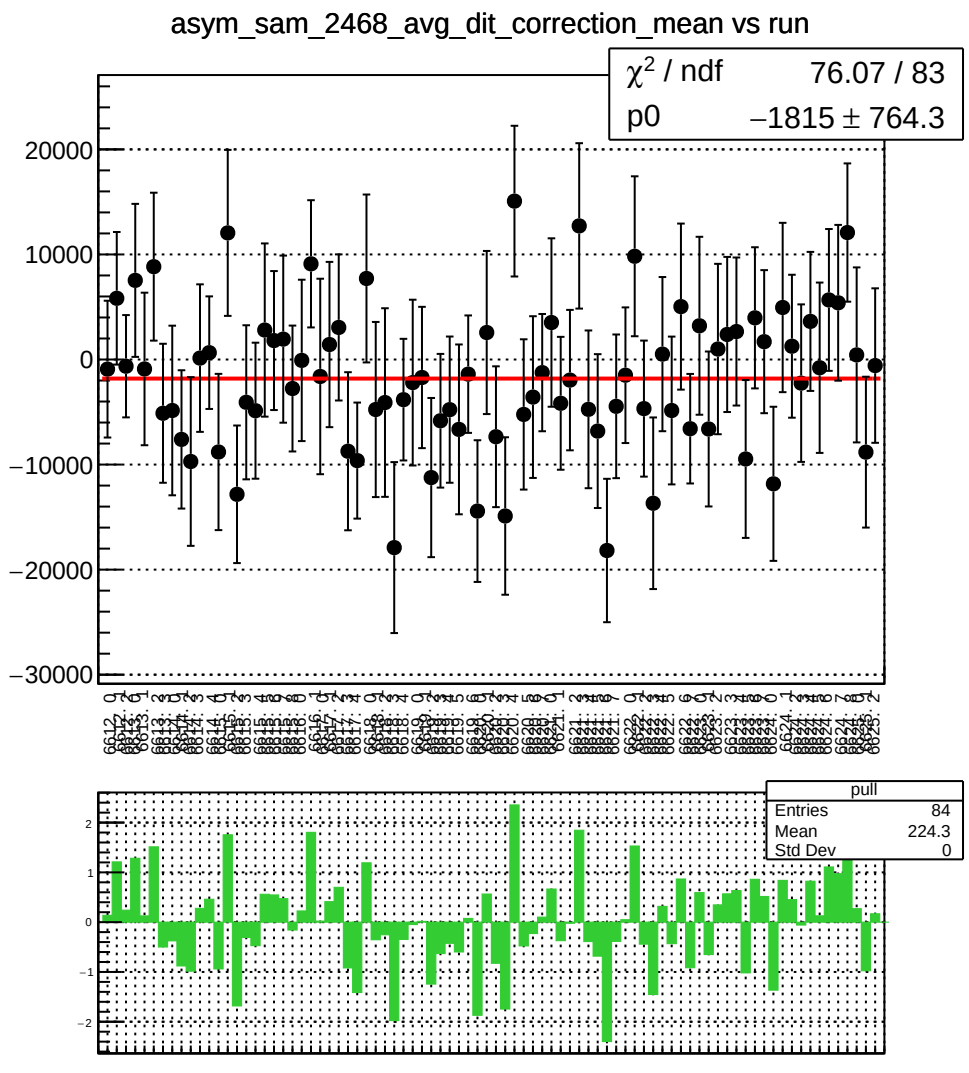

pull1D
Entries 84
Mean 0.006266
Std Dev 0.9531

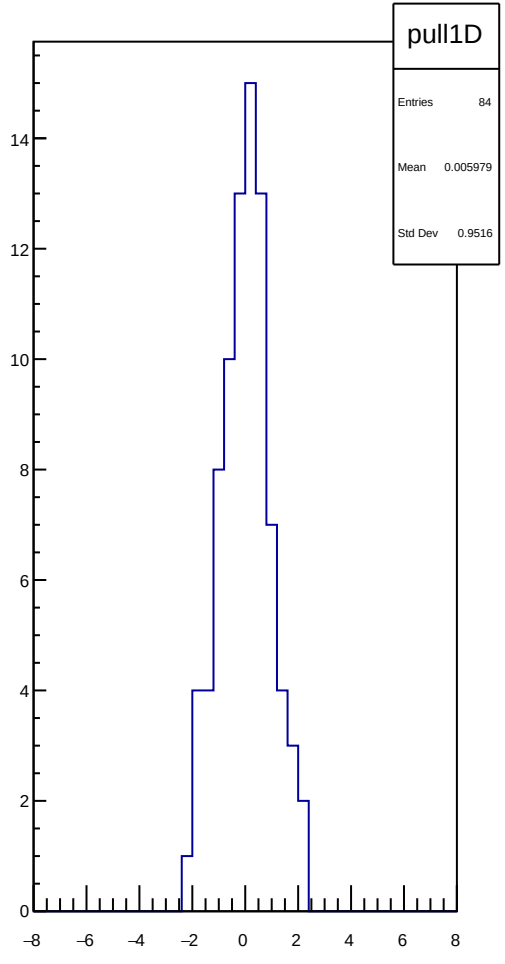

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.489e+04 / 83
p0 701 ± 0.5512
950
900
850
800
750
700
650
600

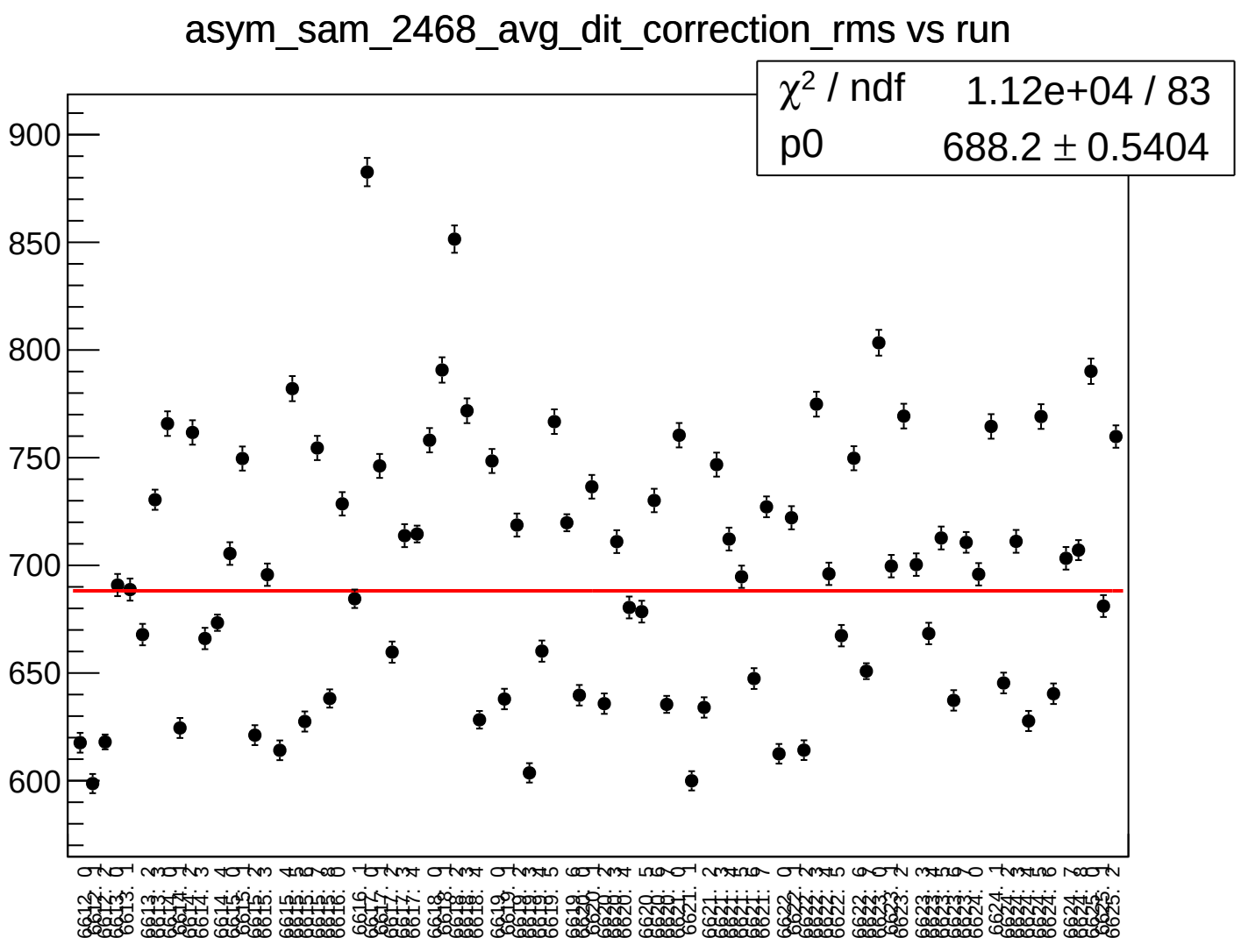

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 67 / 83
p0 117 ± 106.9
pull
Entries 84
Mean 118.5
Std Dev 0

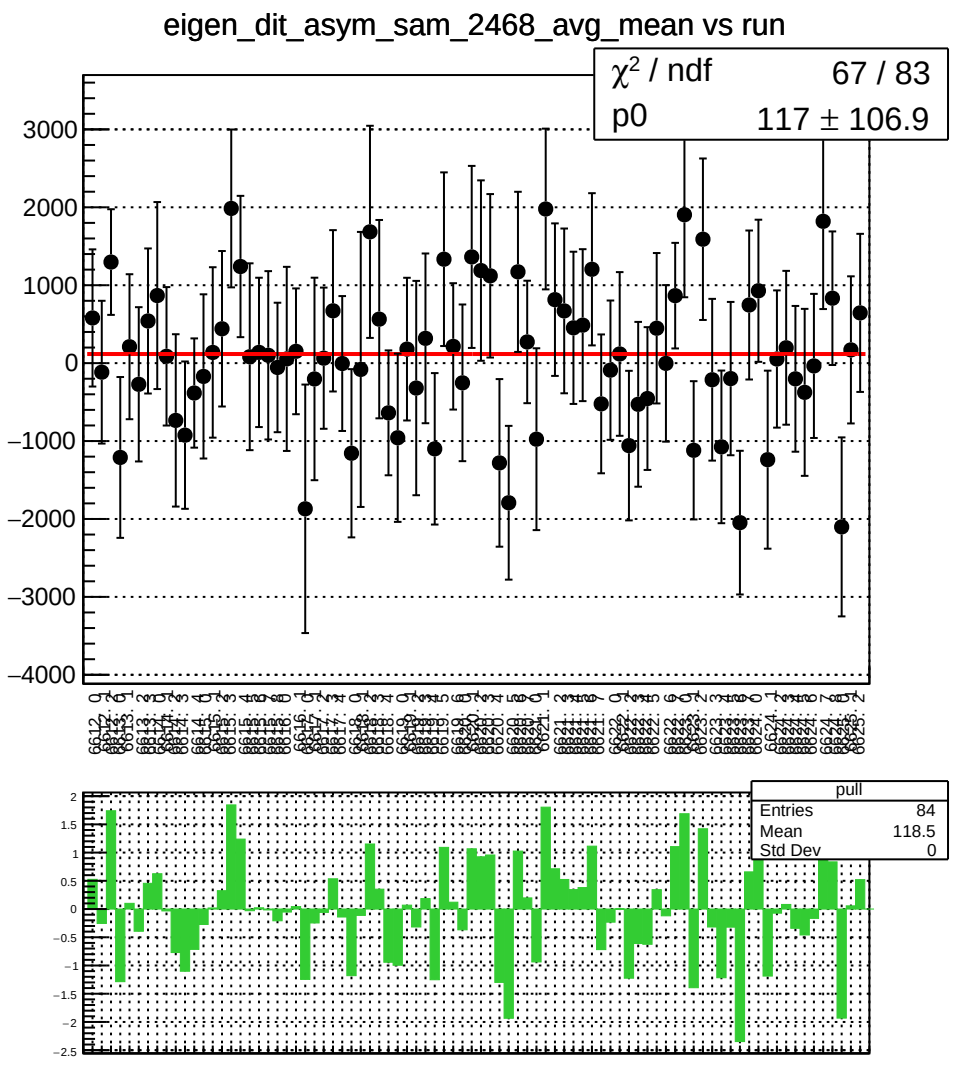

pull1D
Entries 84
Mean −0.009897
Std Dev 0.8931

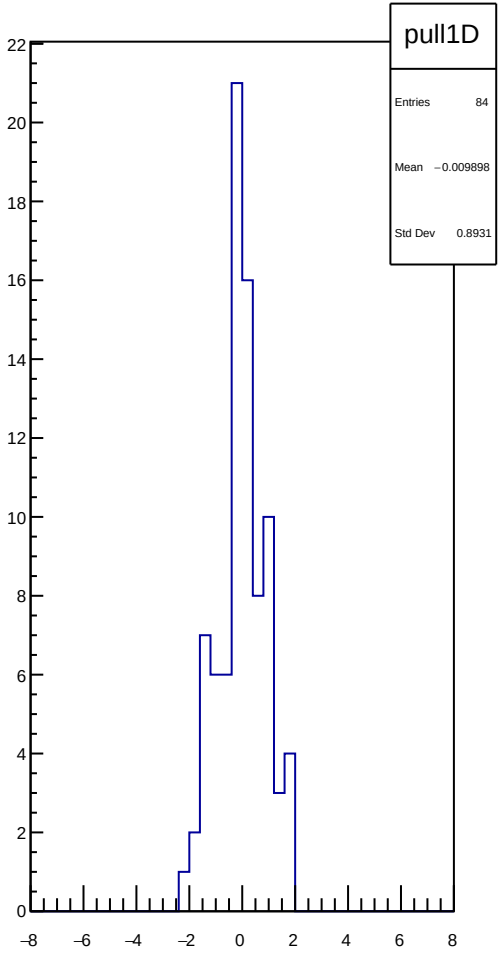

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 2.098e+04 / 83
p0 95.93 ± 0.07557
160
140
120
100
80

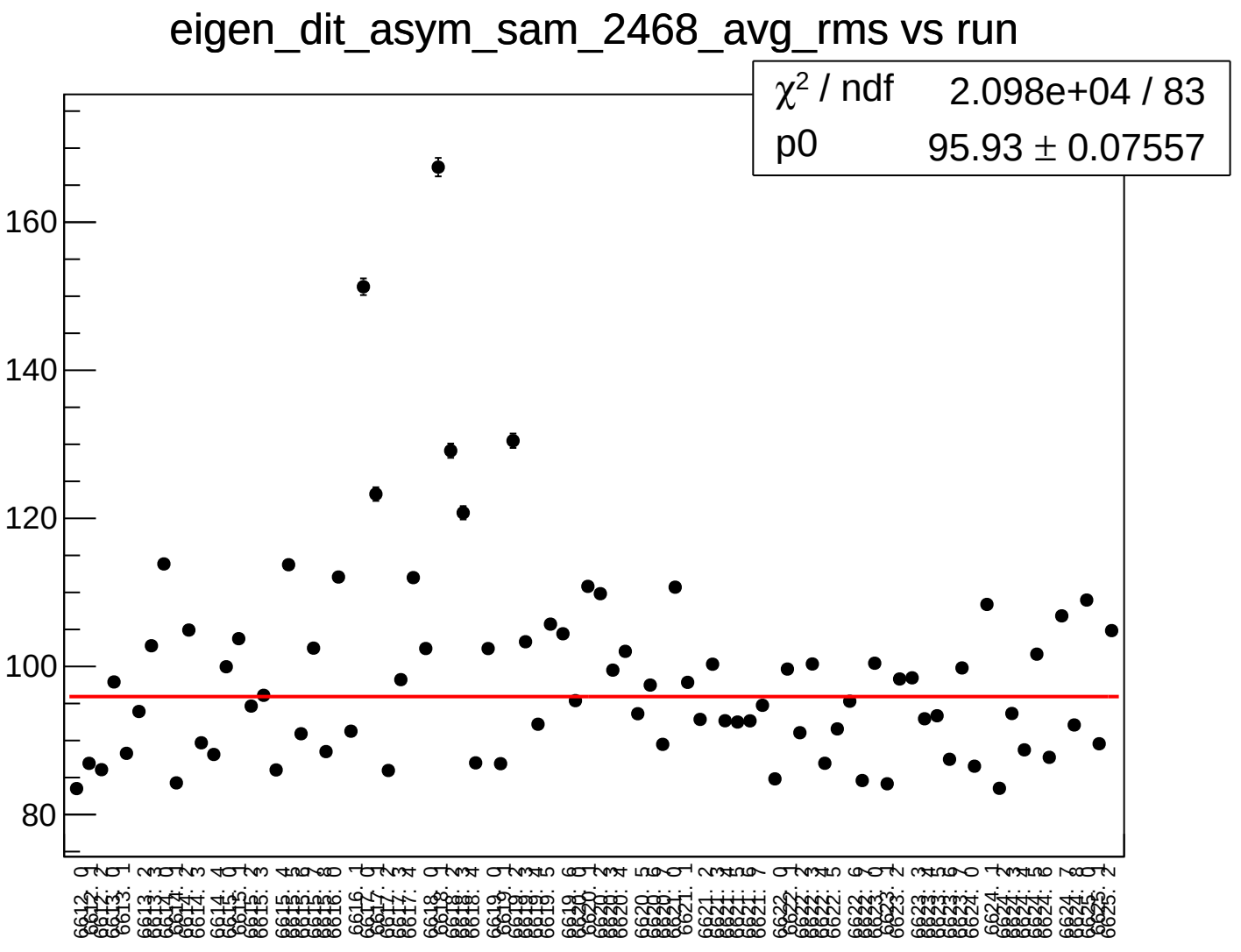

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 76.07 / 83
p0 −1815 ± 764.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 224.3
Std Dev 0
2
1
0
−1
−2

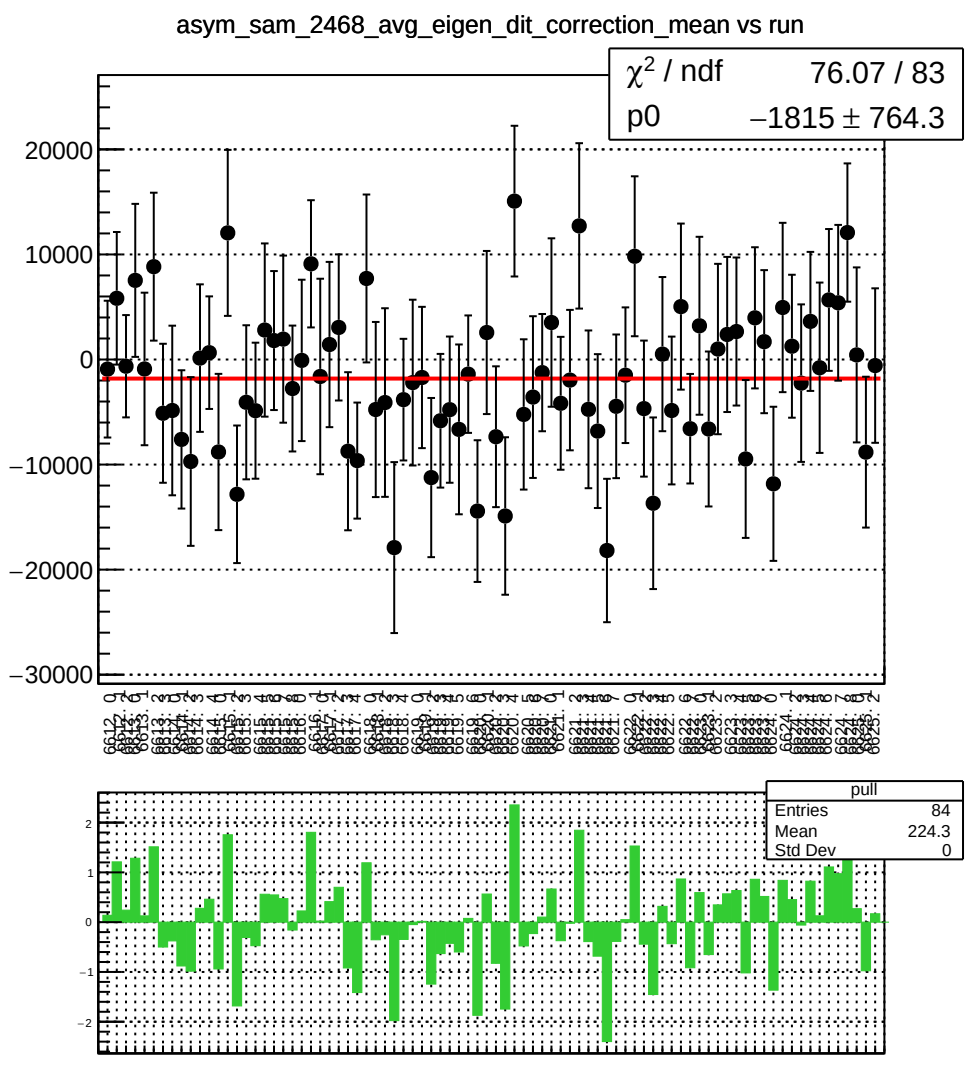

pull1D
Entries 84
Mean 0.005979
Std Dev 0.9516
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

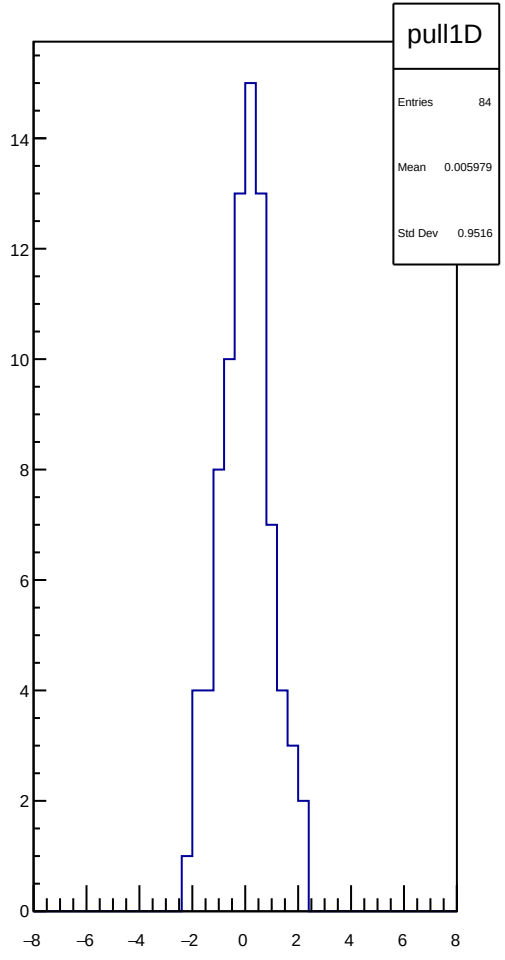

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1.12e+04 / 83
p0 688.2 ± 0.5404
900
850
800
750
700
650
600

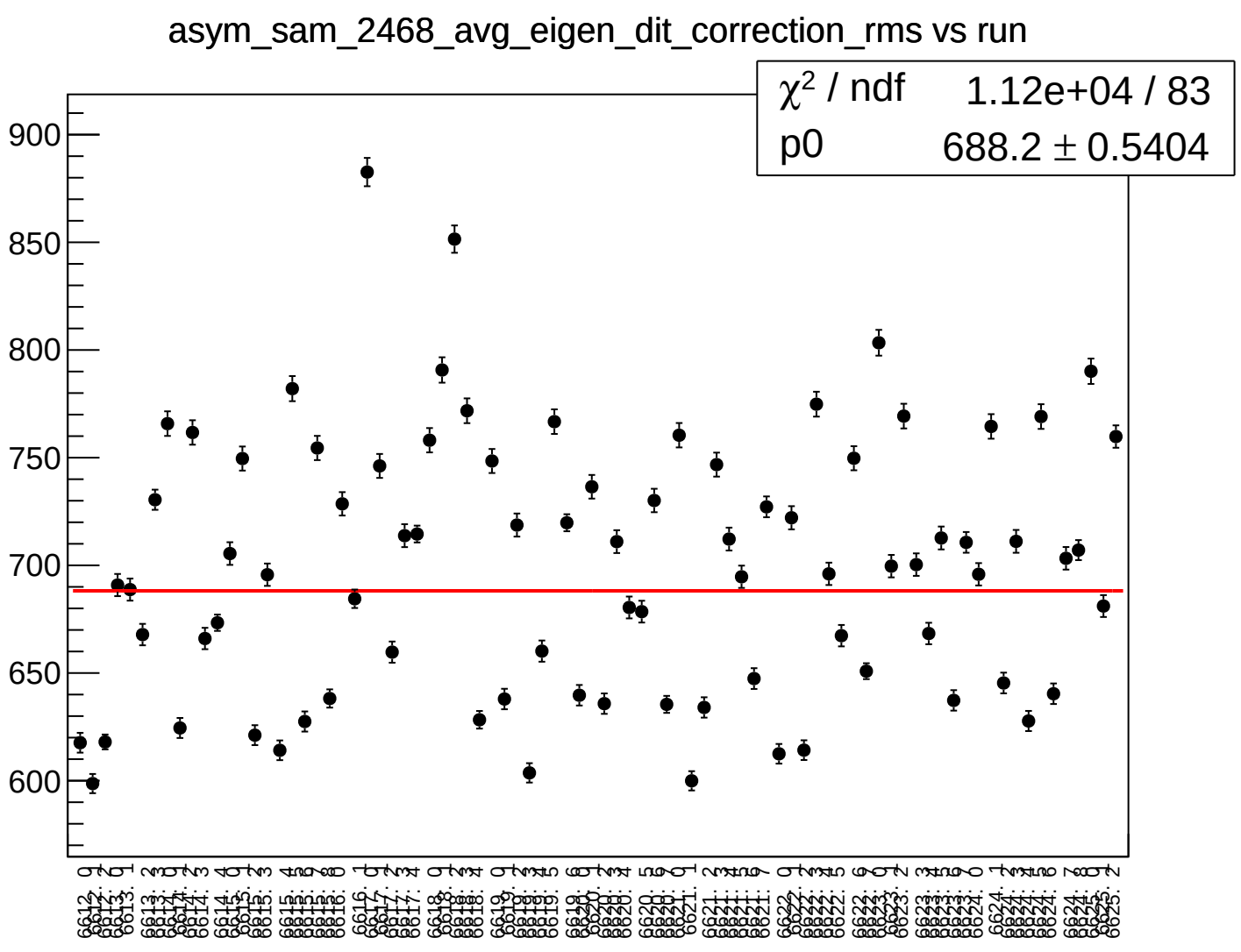

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 67 / 83
p0 117 ± 106.9
pull
Entries 84
Mean 118.5
Std Dev 0

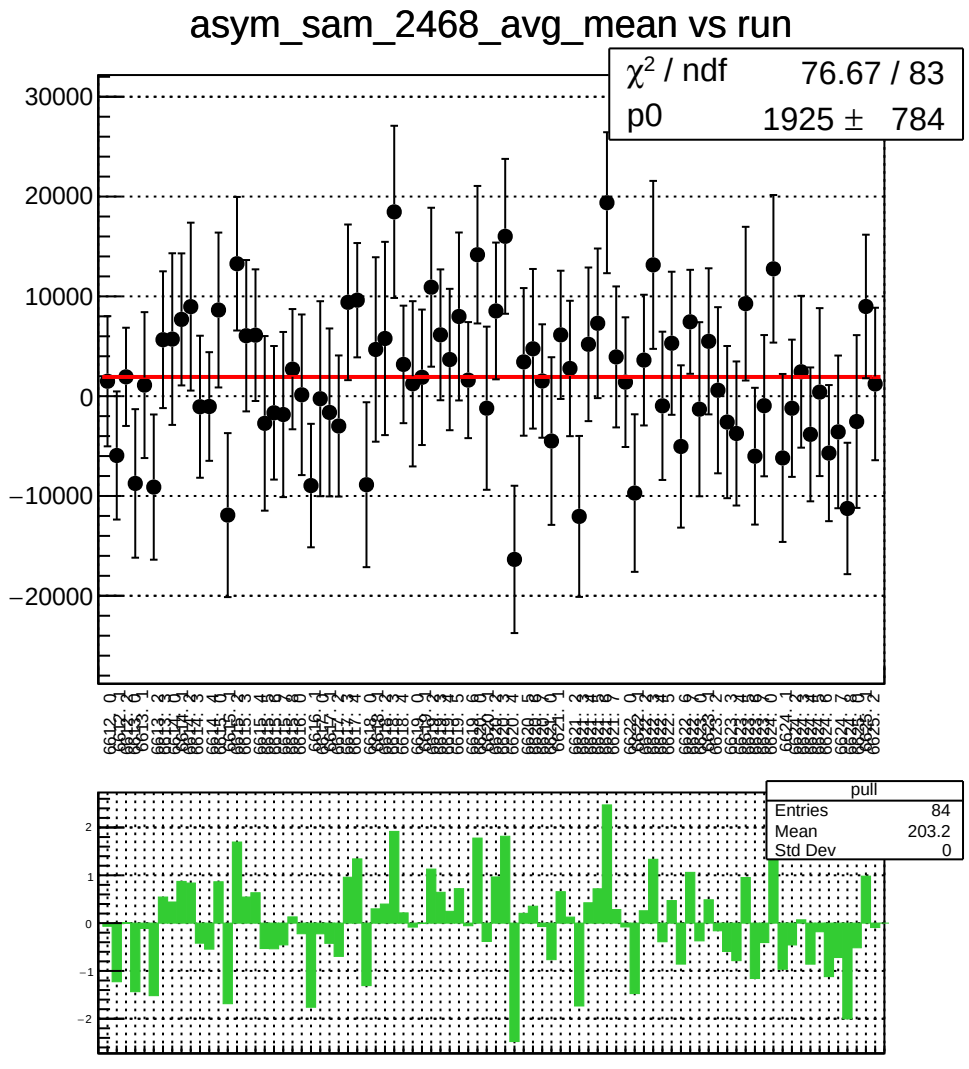

pull1D
Entries 84
Mean −0.009898
Std Dev 0.8931

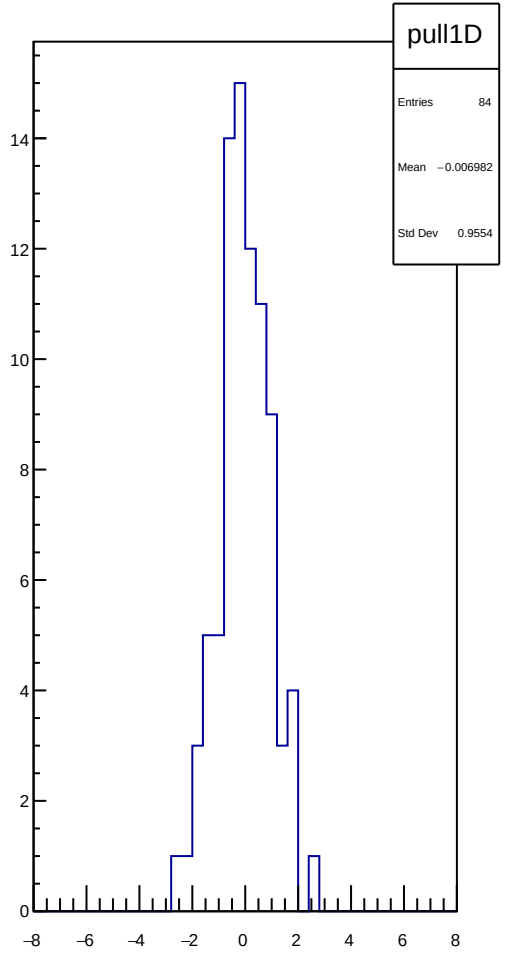

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 2.098e+04 / 83
p0 95.93 ± 0.07557
160
140
120
100
80

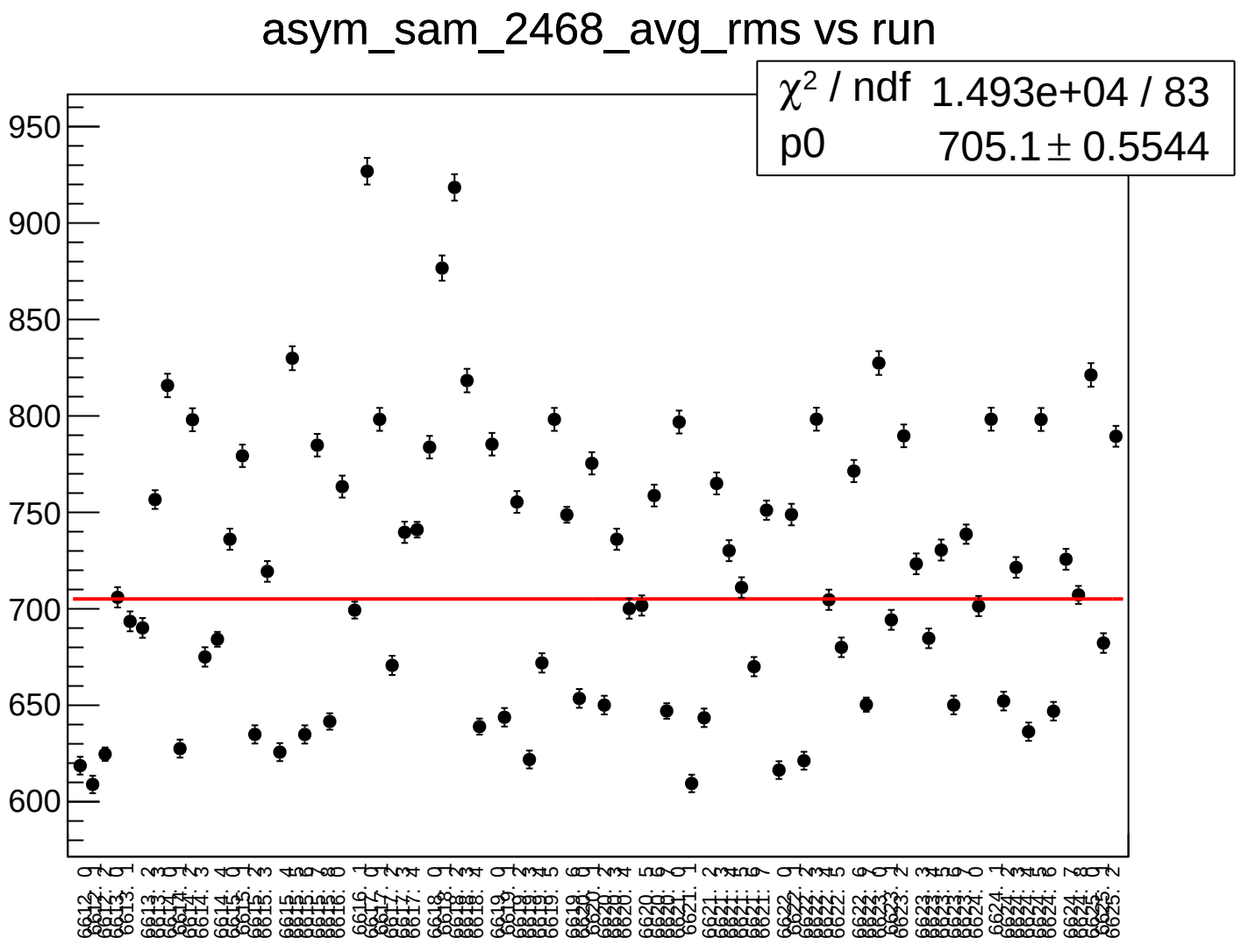

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.07 / 83
p0 −1815 ± 764.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 224.3
Std Dev 0
2
1
0
−1
−2

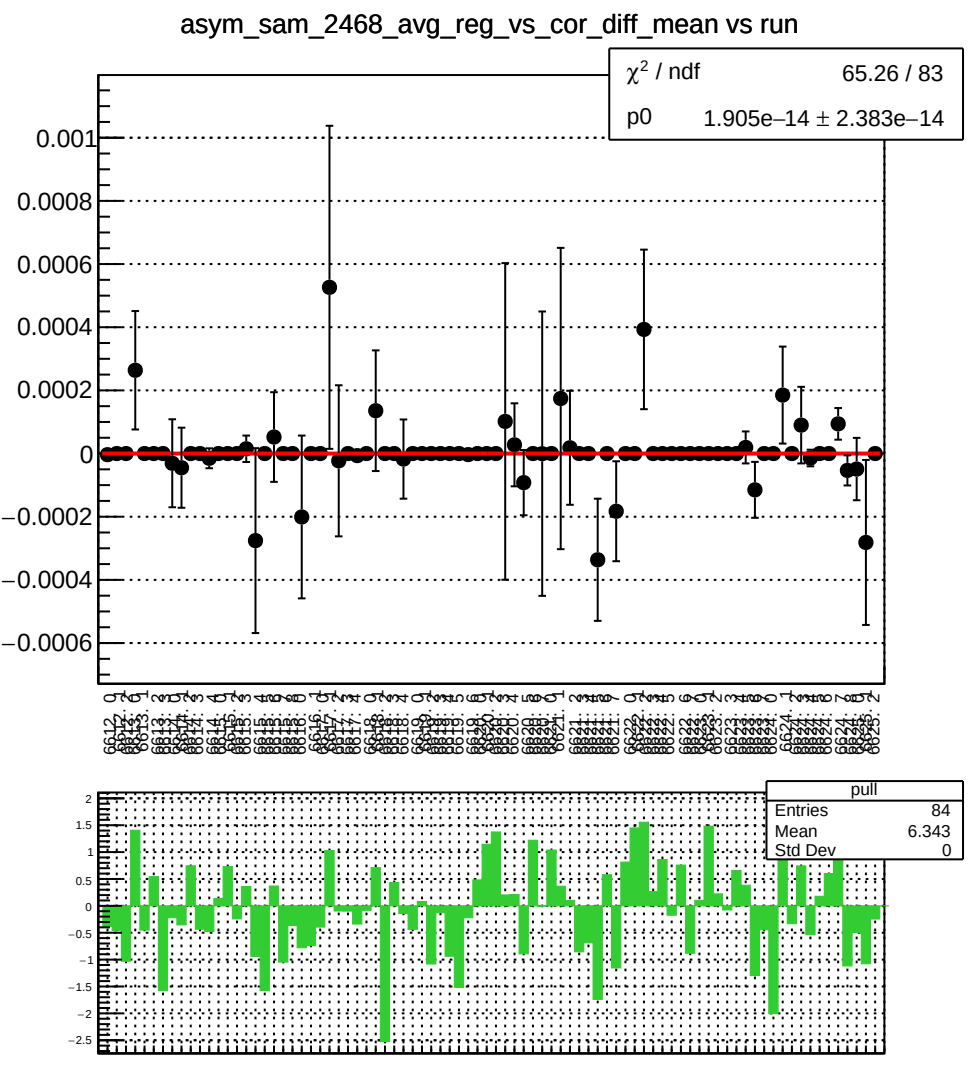

pull1D
Entries 84
Mean 0.005979
Std Dev 0.9516
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

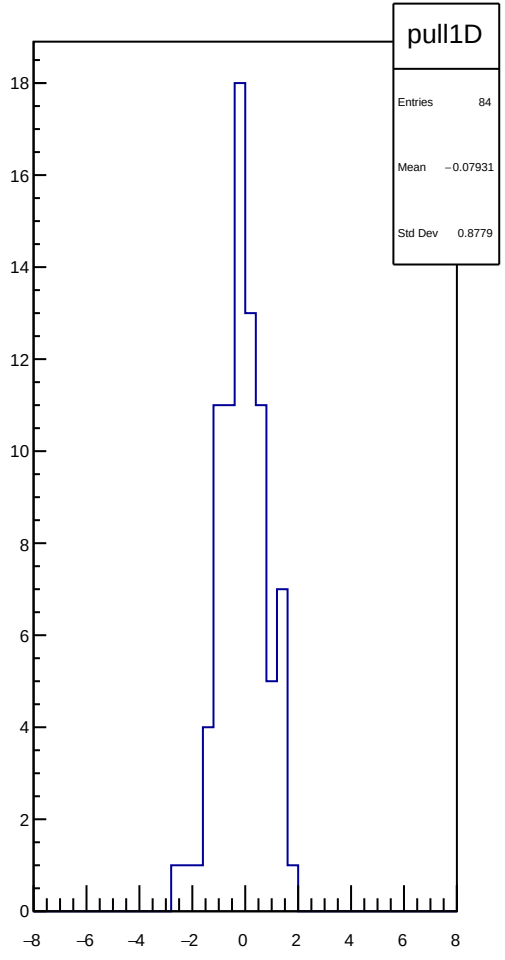

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.12e+04 / 83
p0 688.2 ± 0.5404
900
850
800
750
700
650
600

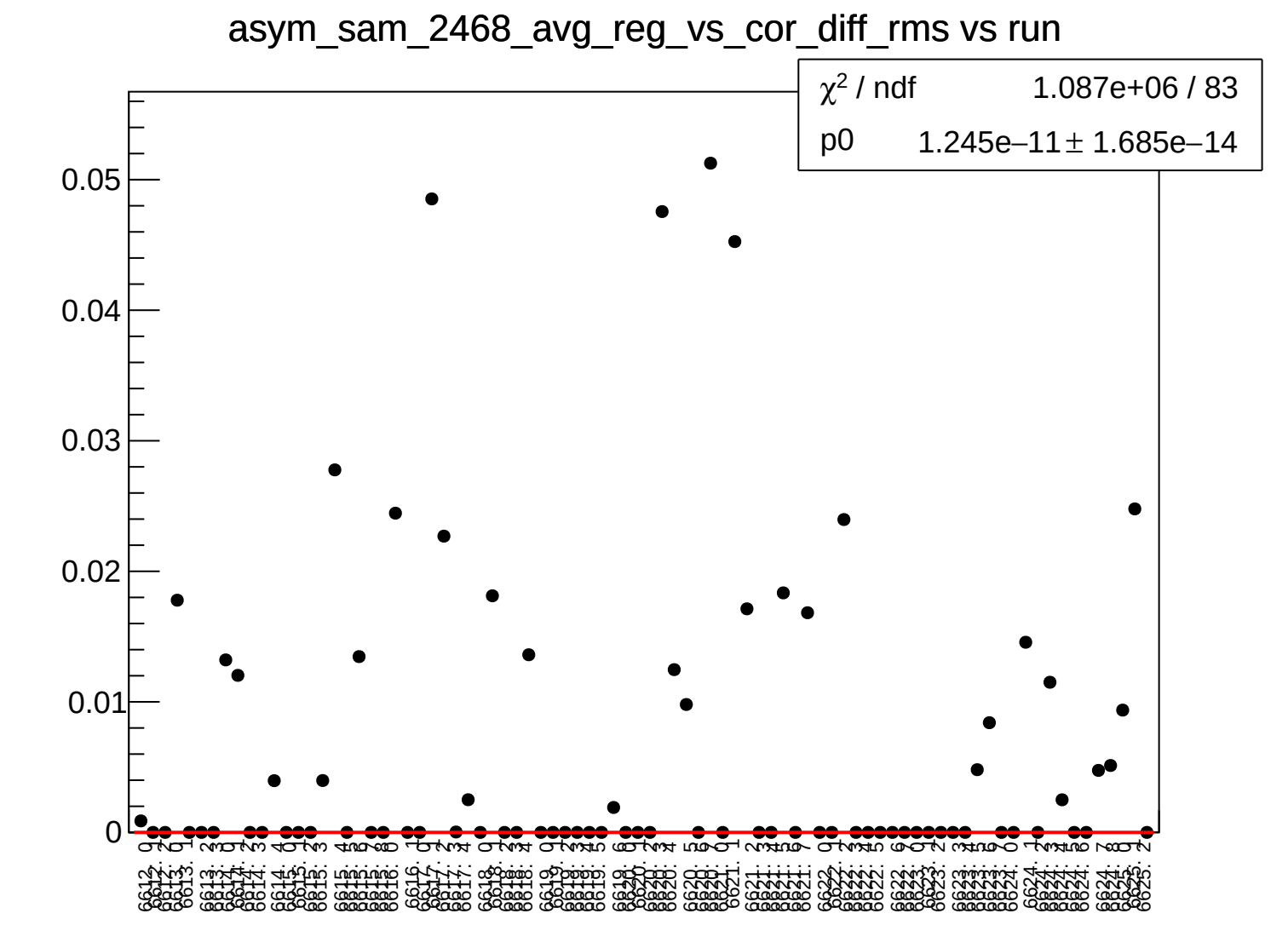

asym_sam_2468_avg_mean vs run
χ² / ndf 76.67 / 83
p0 1925 ± 784
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 203.2
Std Dev 0
2
1
0
−1
−2

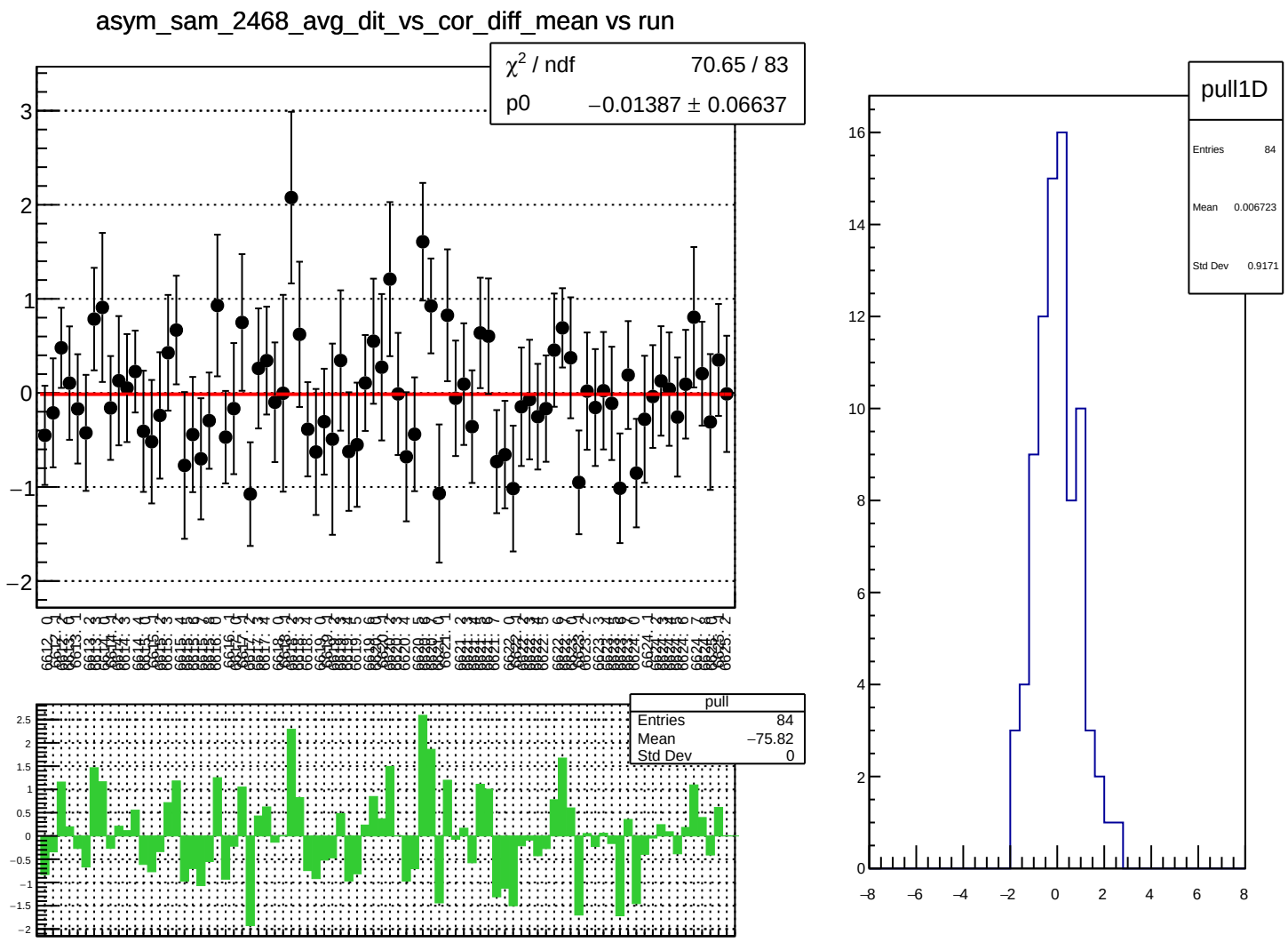

pull1D
Entries 84
Mean −0.006982
Std Dev 0.9554
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

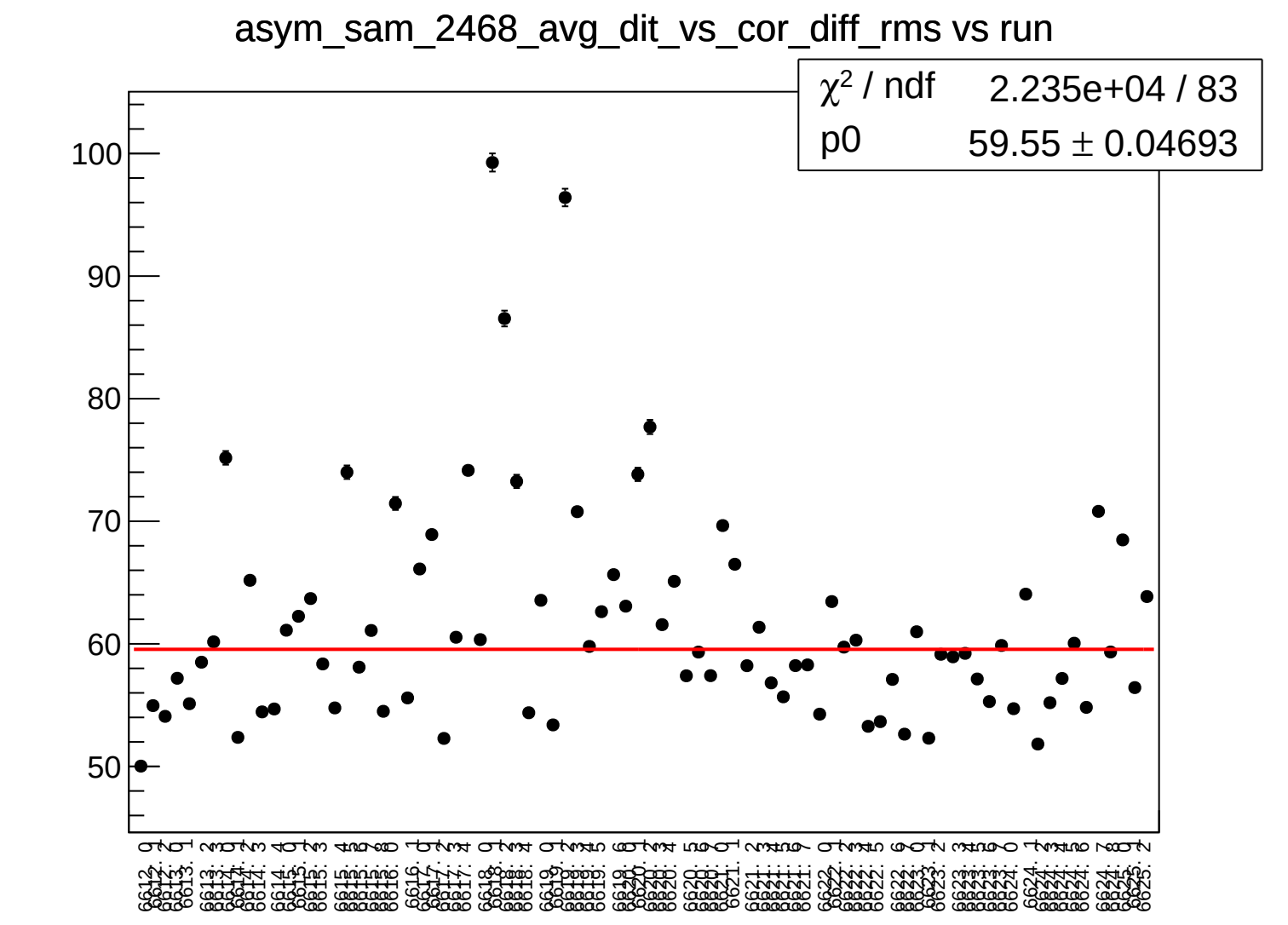

asym_sam_2468_avg_rms vs run
χ² / ndf 1.493e+04 / 83
p0 705.1 ± 0.5544
950
900
850
800
750
700
650
600

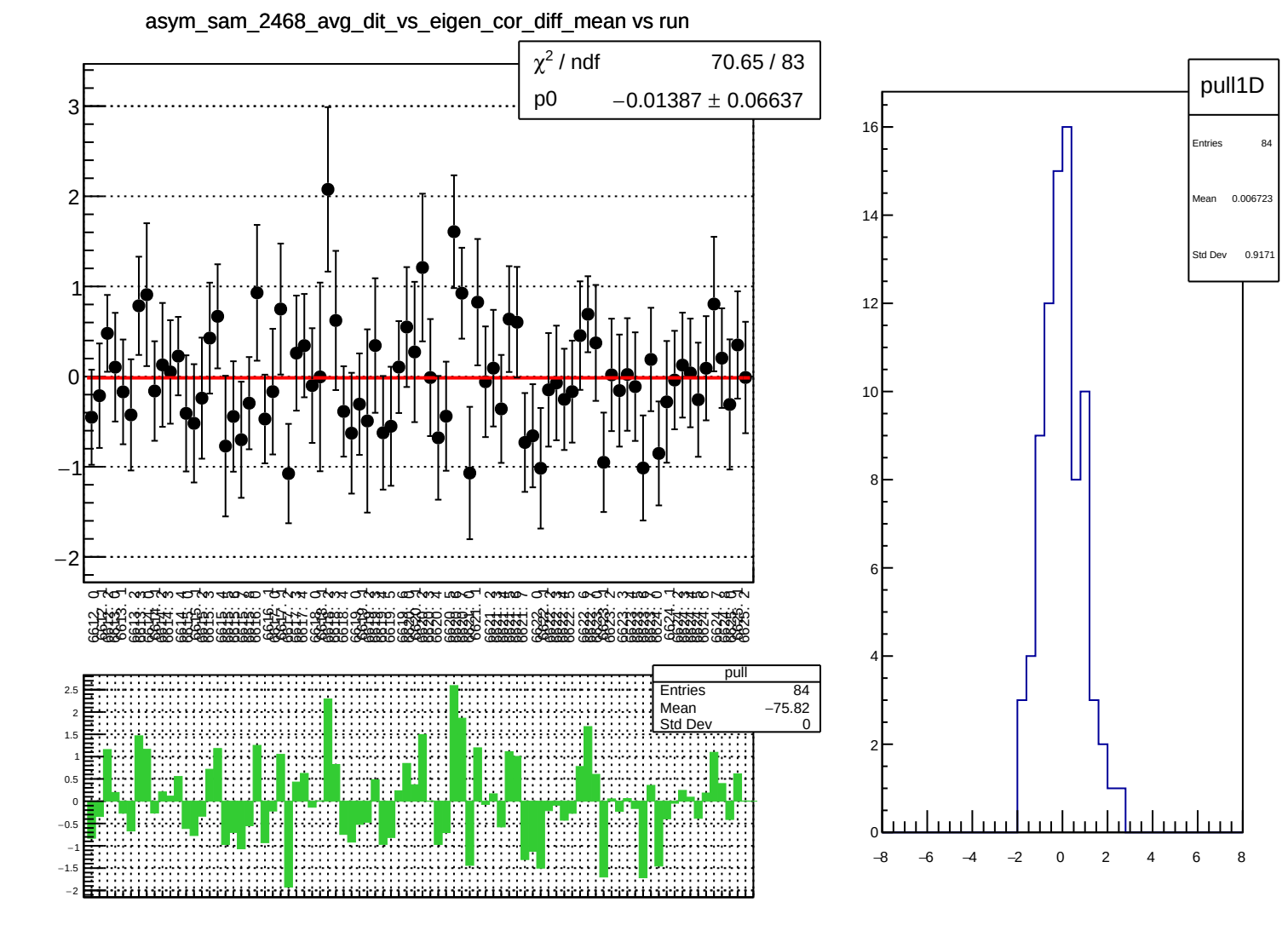

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 65.26 / 83
p0 1.905e−14 ± 2.383e−14
pull
Entries 84
Mean 6.343
Std Dev 0

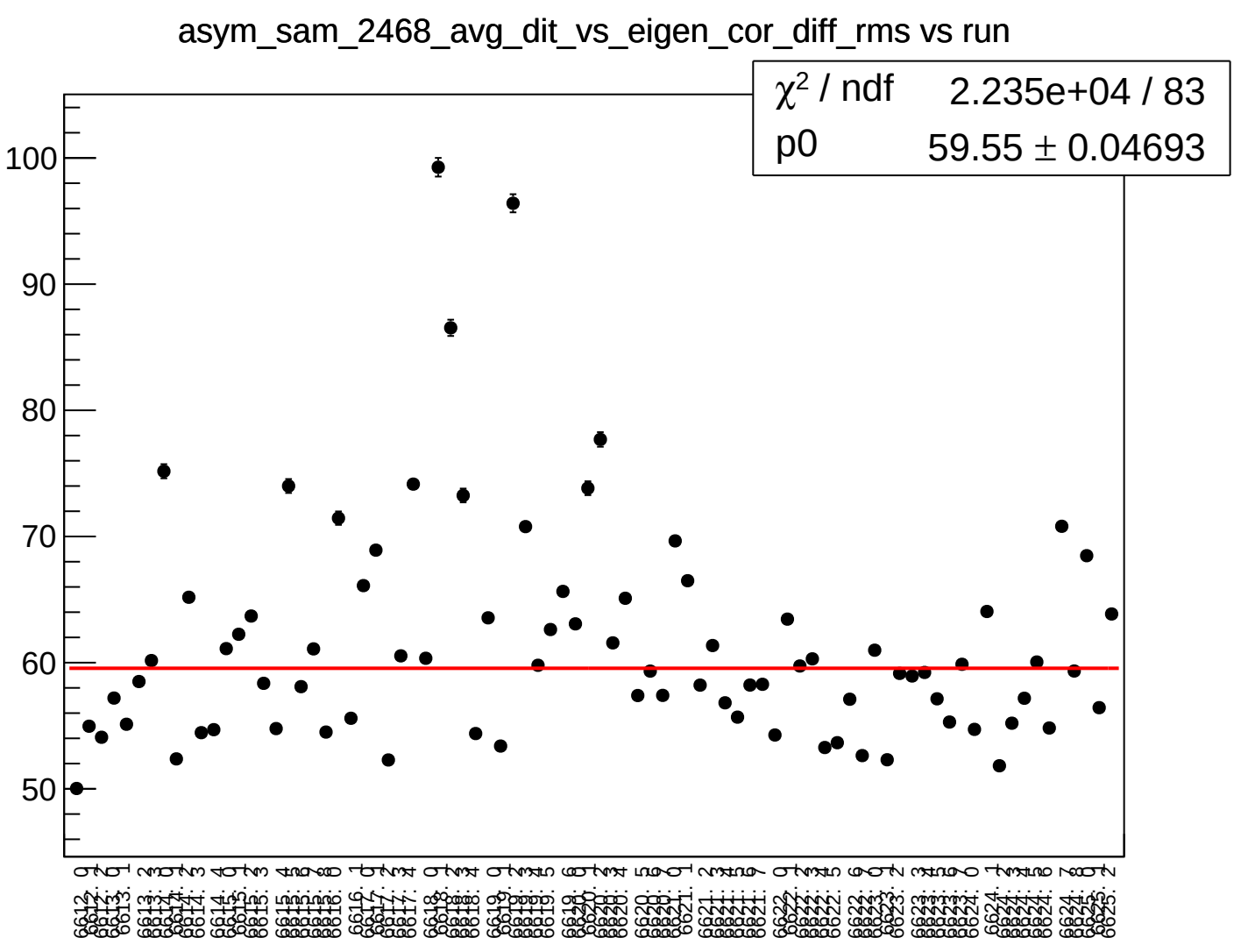

pull1D
Entries 84
Mean −0.07931
Std Dev 0.8779

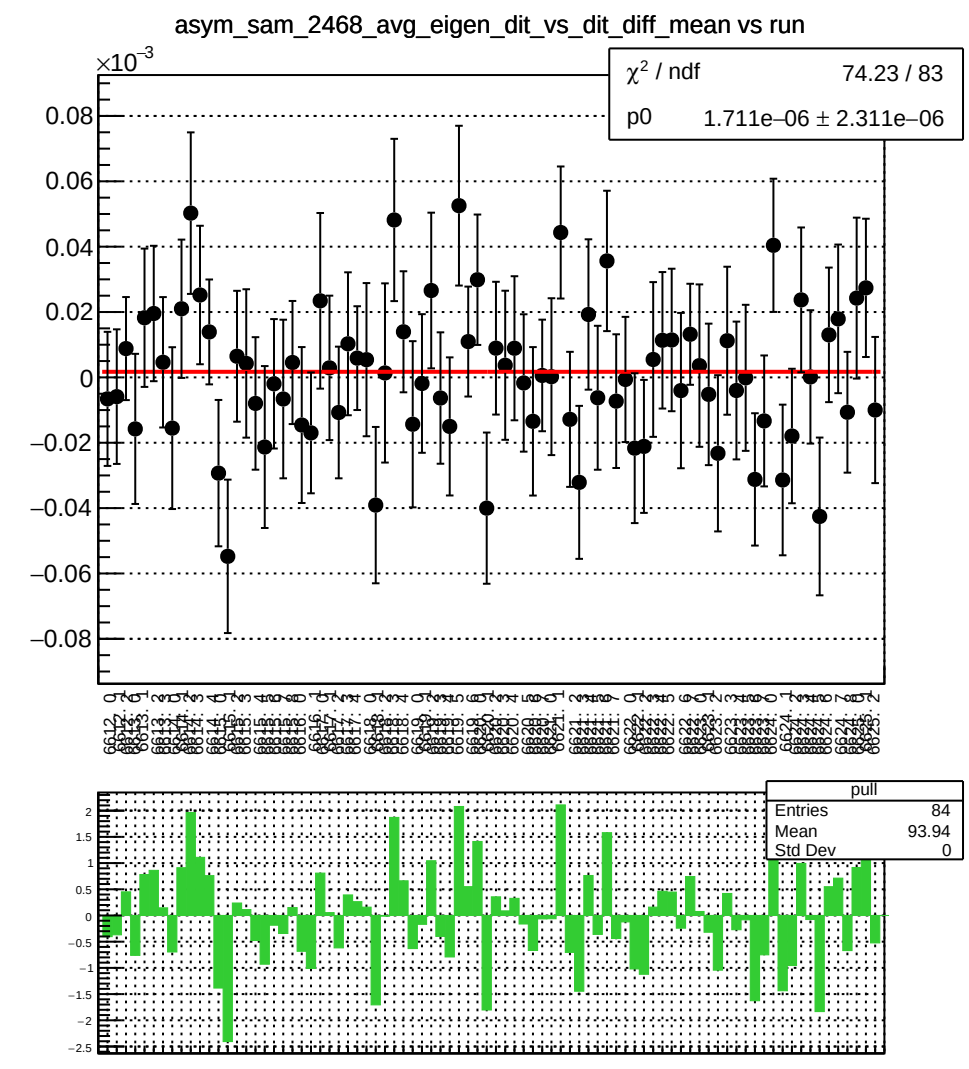

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.087e+06 / 83
p0 1.245e−11 ± 1.685e−14
0.05
0.04
0.03
0.02
0.01
0

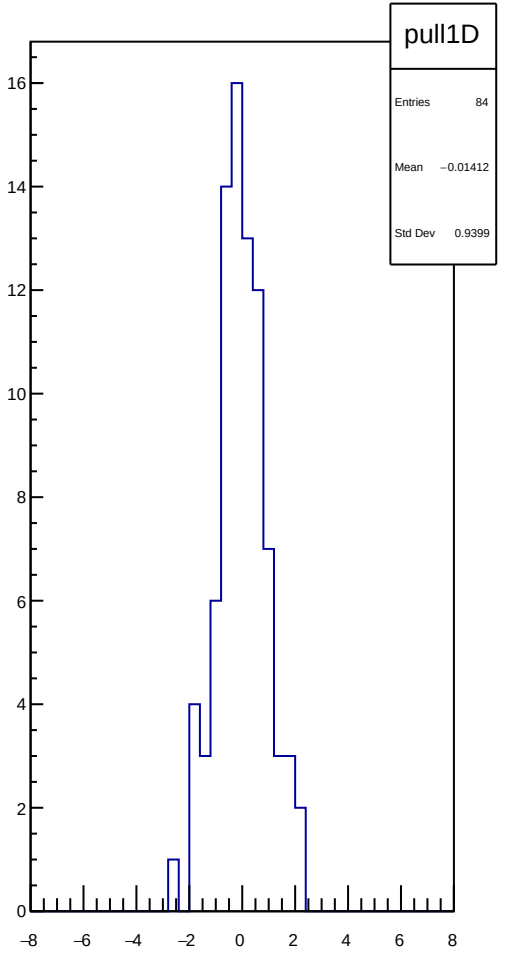

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.65 / 83
p0 −0.01387 ± 0.06637
pull
Entries 84
Mean −75.82
Std Dev 0
pull1D
Entries 84
Mean 0.006723
Std Dev 0.9171

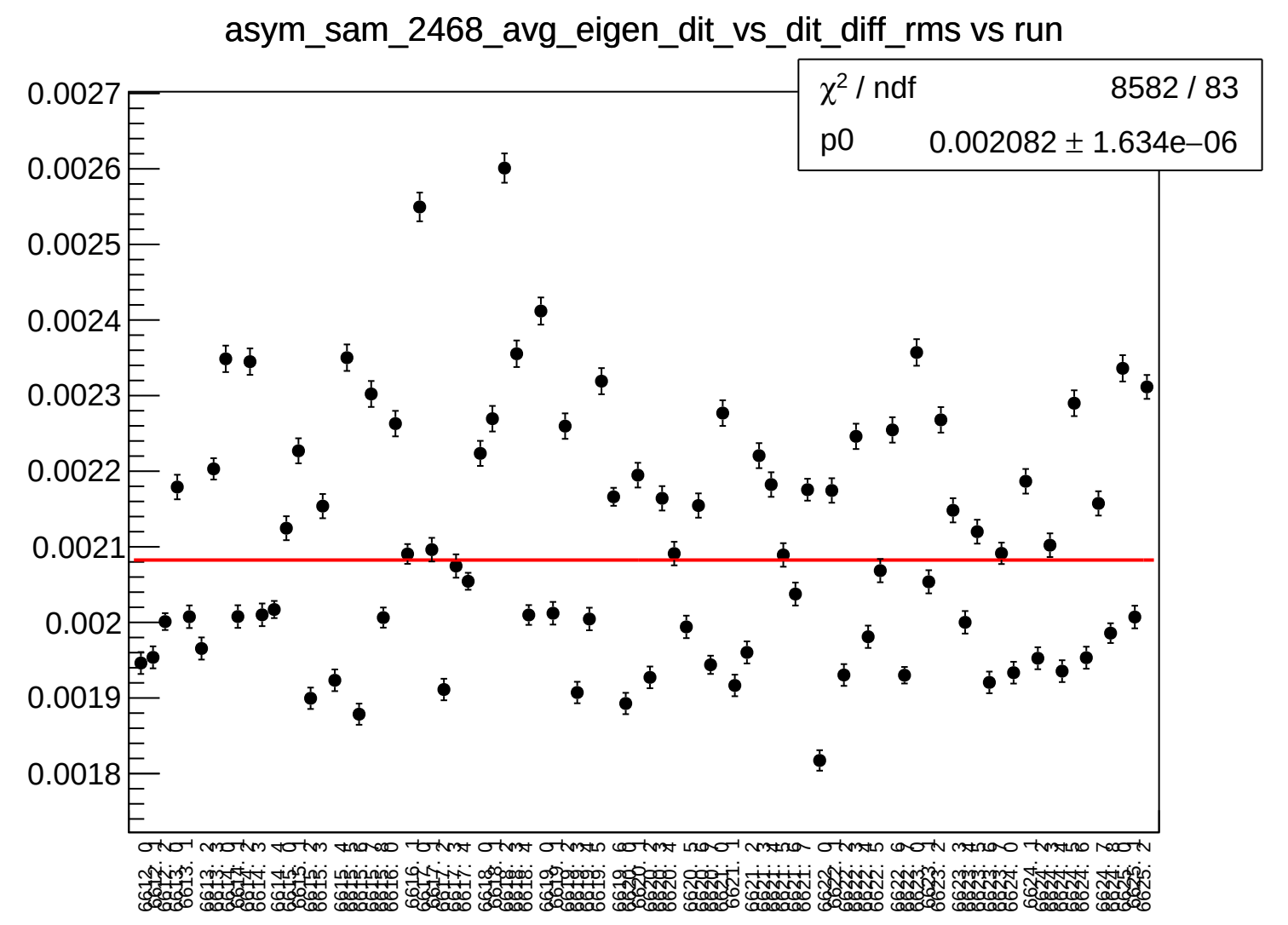

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.235e+04 / 83
p0 59.55 ± 0.04693
100
90
80
70
60
50

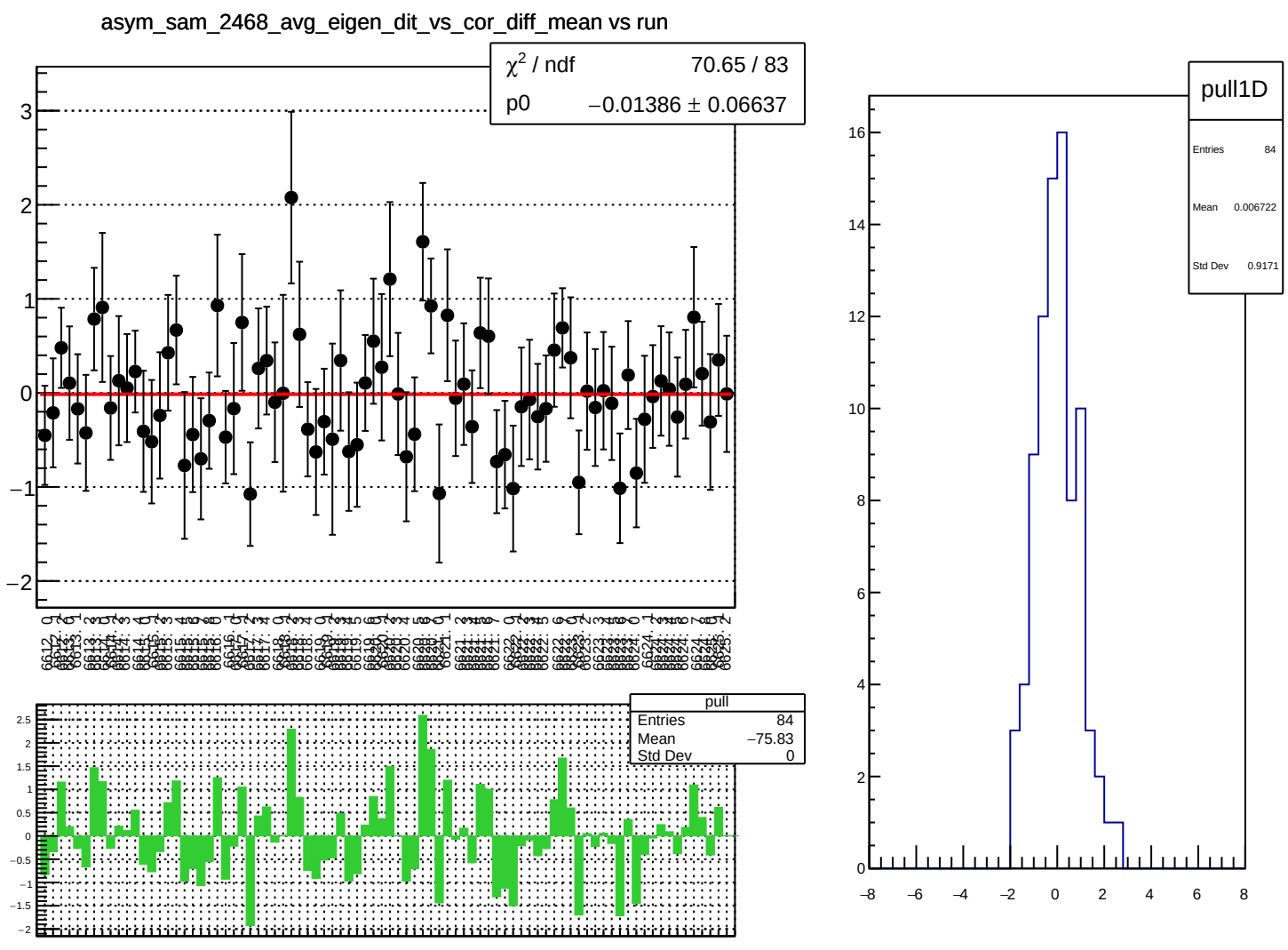

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.65 / 83
p0 −0.01387 ± 0.06637
pull
Entries 84
Mean −75.82
Std Dev 0
pull1D
Entries 84
Mean 0.006723
Std Dev 0.9171

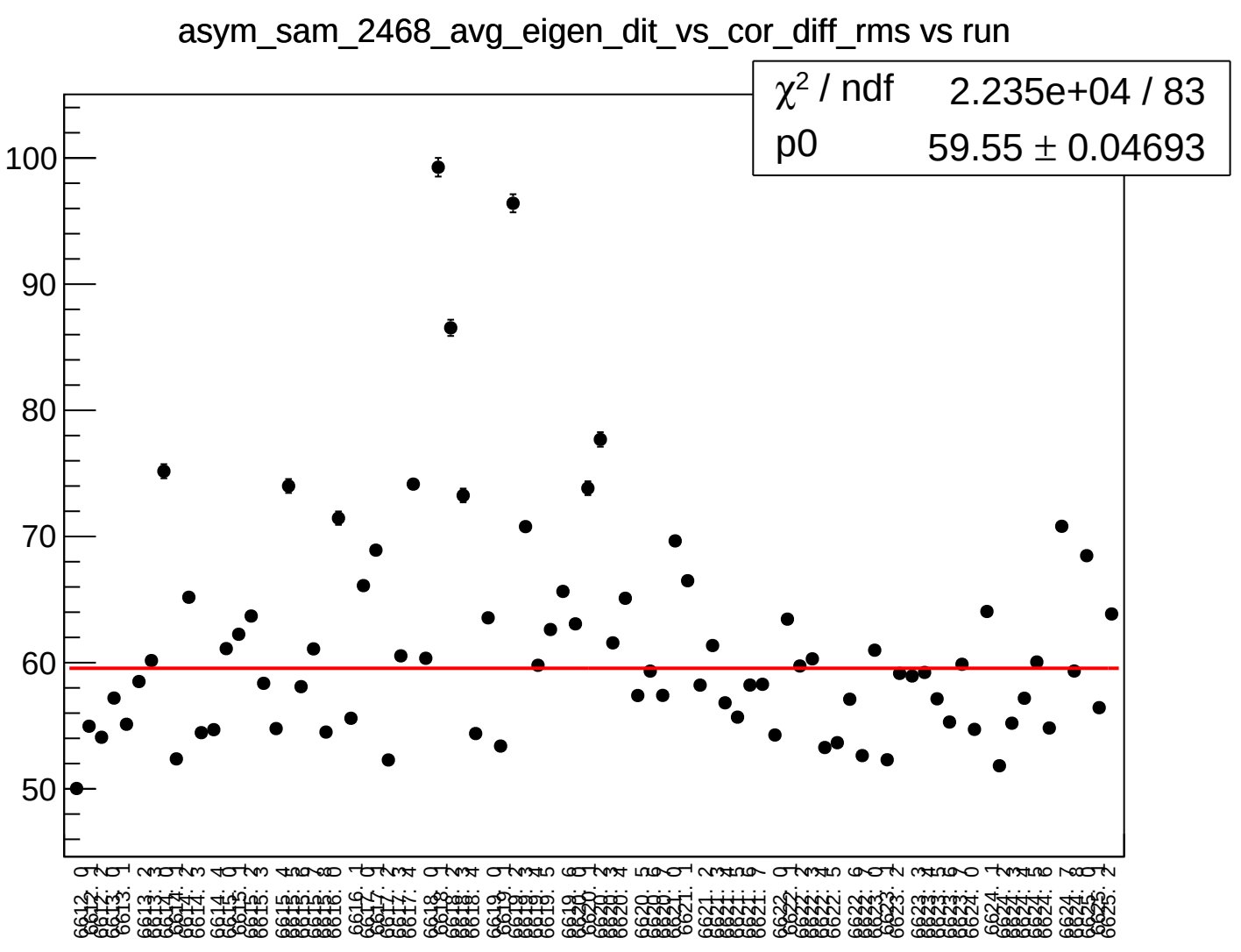

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.235e+04 / 83
p0 59.55 ± 0.04693
100
90
80
70
60
50

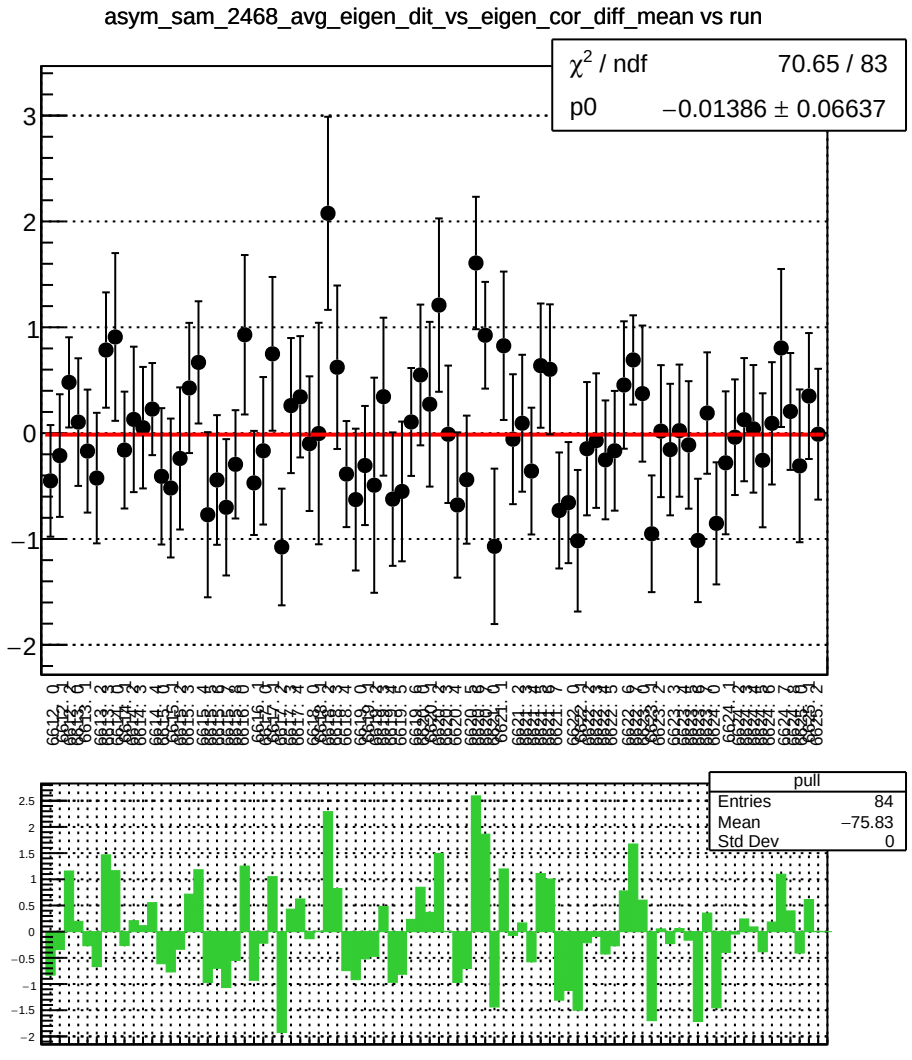

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.23 / 83
p0 1.711e−06 ± 2.311e−06
pull
Entries 84
Mean 93.94
Std Dev 0

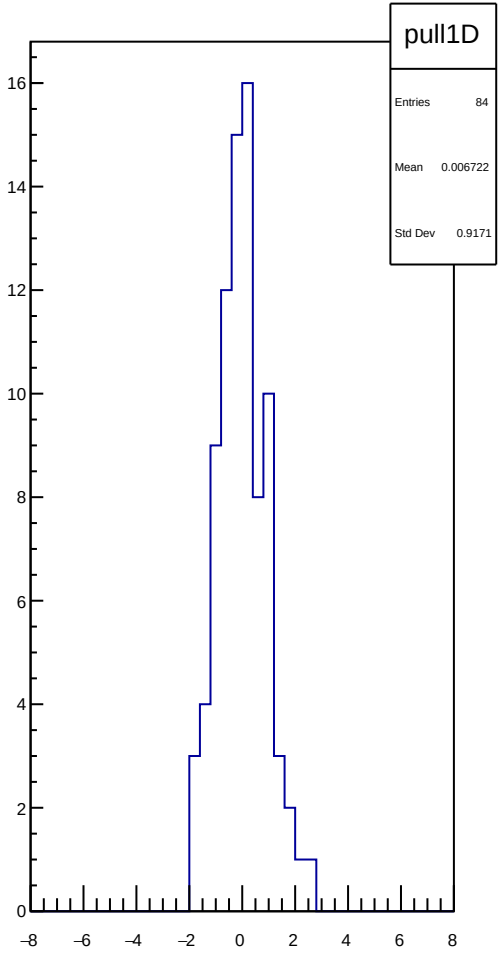

pull1D
Entries 84
Mean −0.01412
Std Dev 0.9399

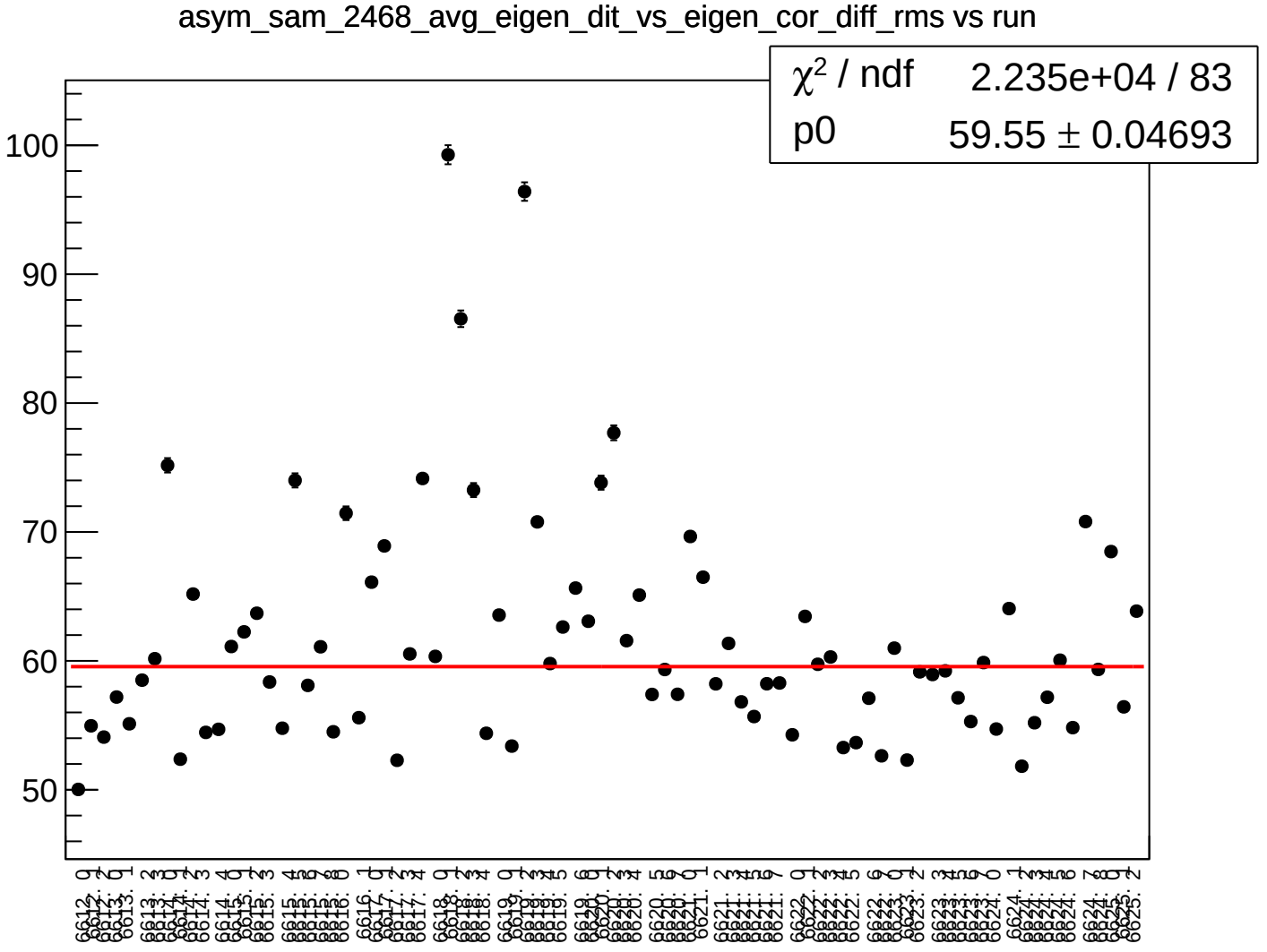

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8582 / 83
p0 0.002082 ± 1.634e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

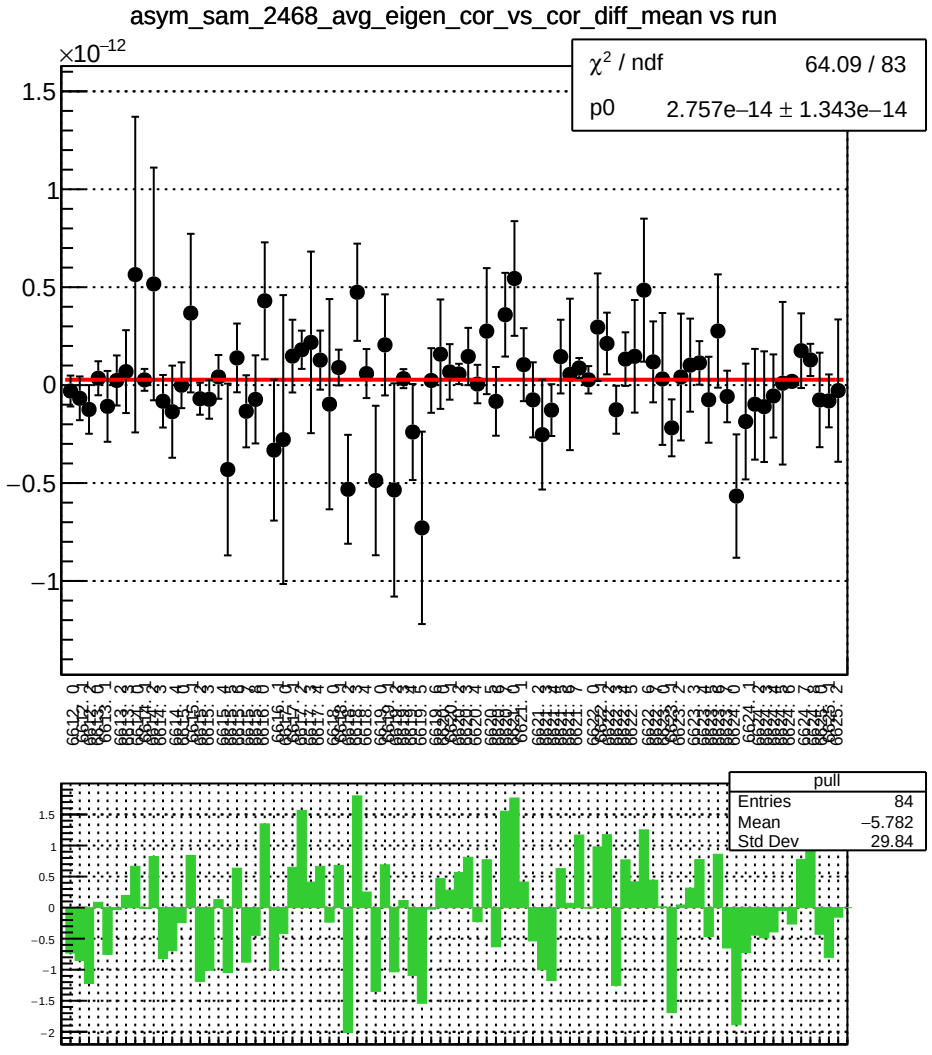

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.65 / 83
p0 −0.01386 ± 0.06637
pull
Entries 84
Mean −75.83
Std Dev 0
pull1D
Entries 84
Mean 0.006722
Std Dev 0.9171

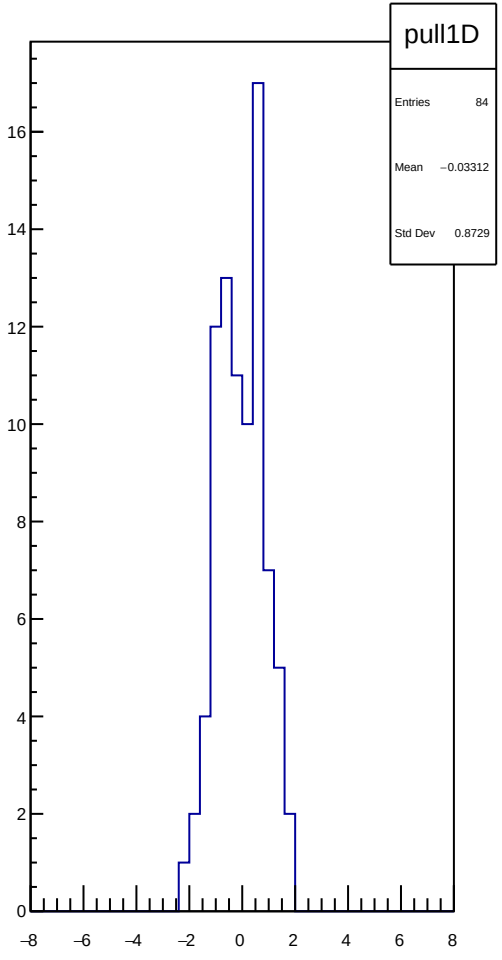

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.235e+04 / 83
p0 59.55 ± 0.04693
100
90
80
70
60
50

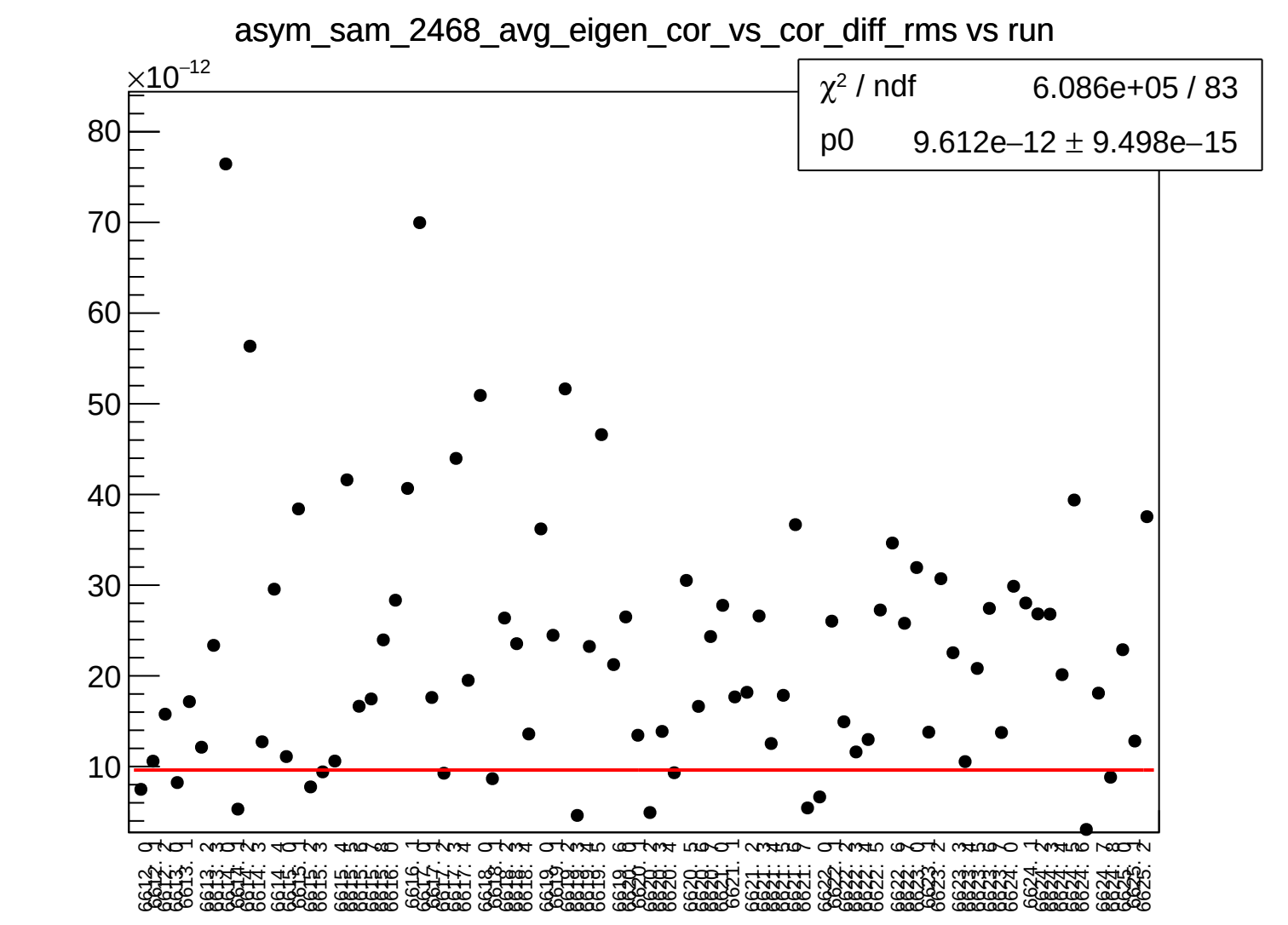

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.65 / 83
p0 −0.01386 ± 0.06637
pull
Entries 84
Mean −75.83
Std Dev 0

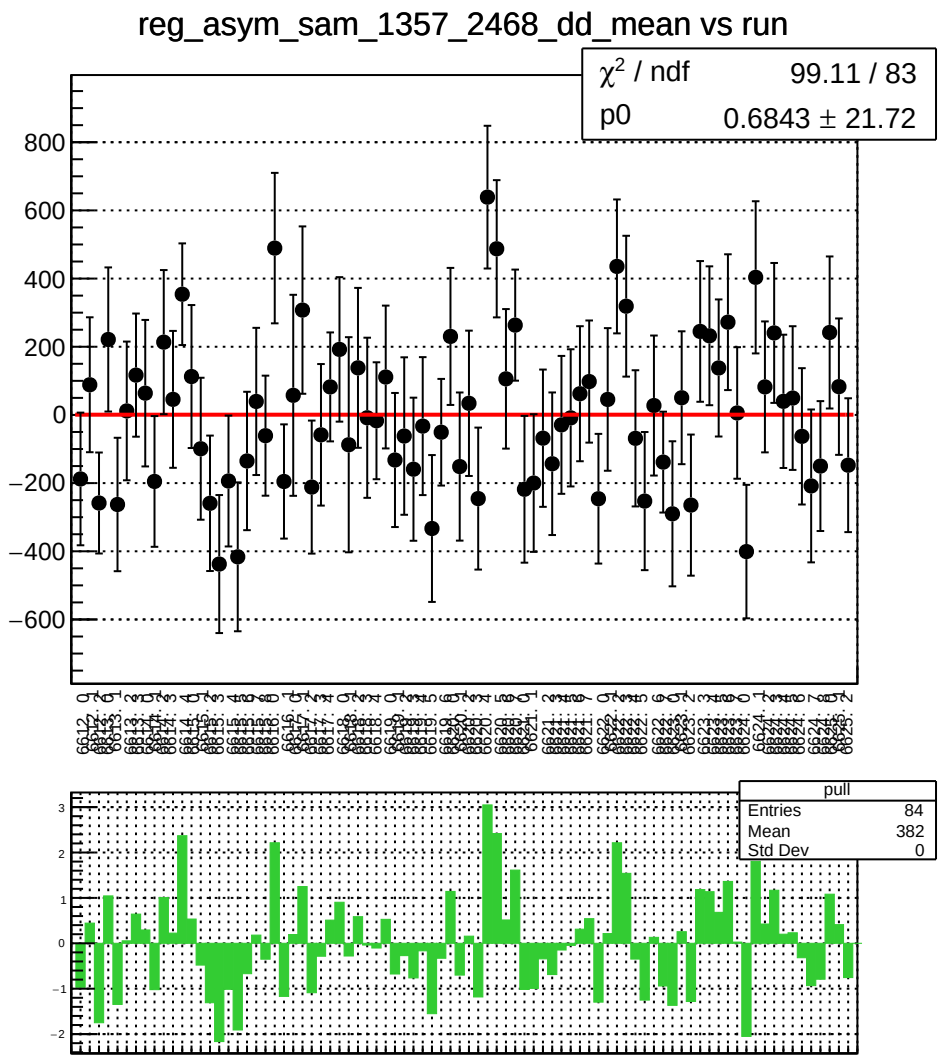

pull1D
Entries 84
Mean 0.006722
Std Dev 0.9171

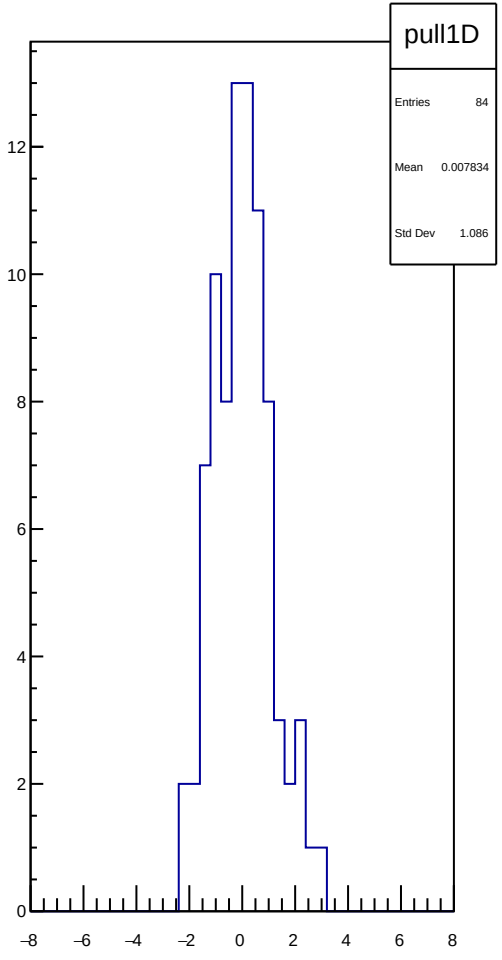

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.235e+04 / 83
p0 59.55 ± 0.04693
100
90
80
70
60
50

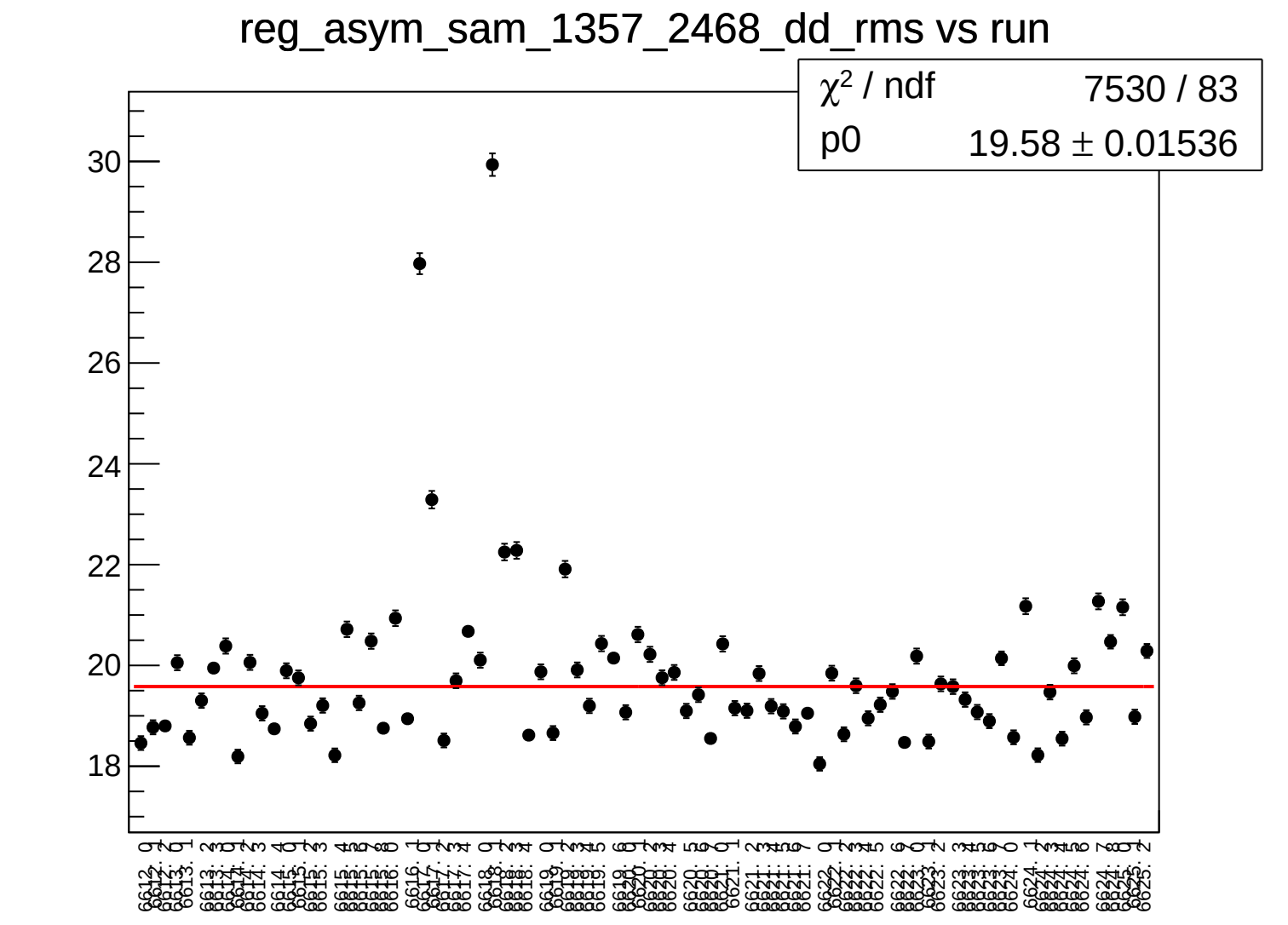

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.09 / 83
p0 2.757e−14 ± 1.343e−14
pull
Entries 84
Mean −5.782
Std Dev 29.84

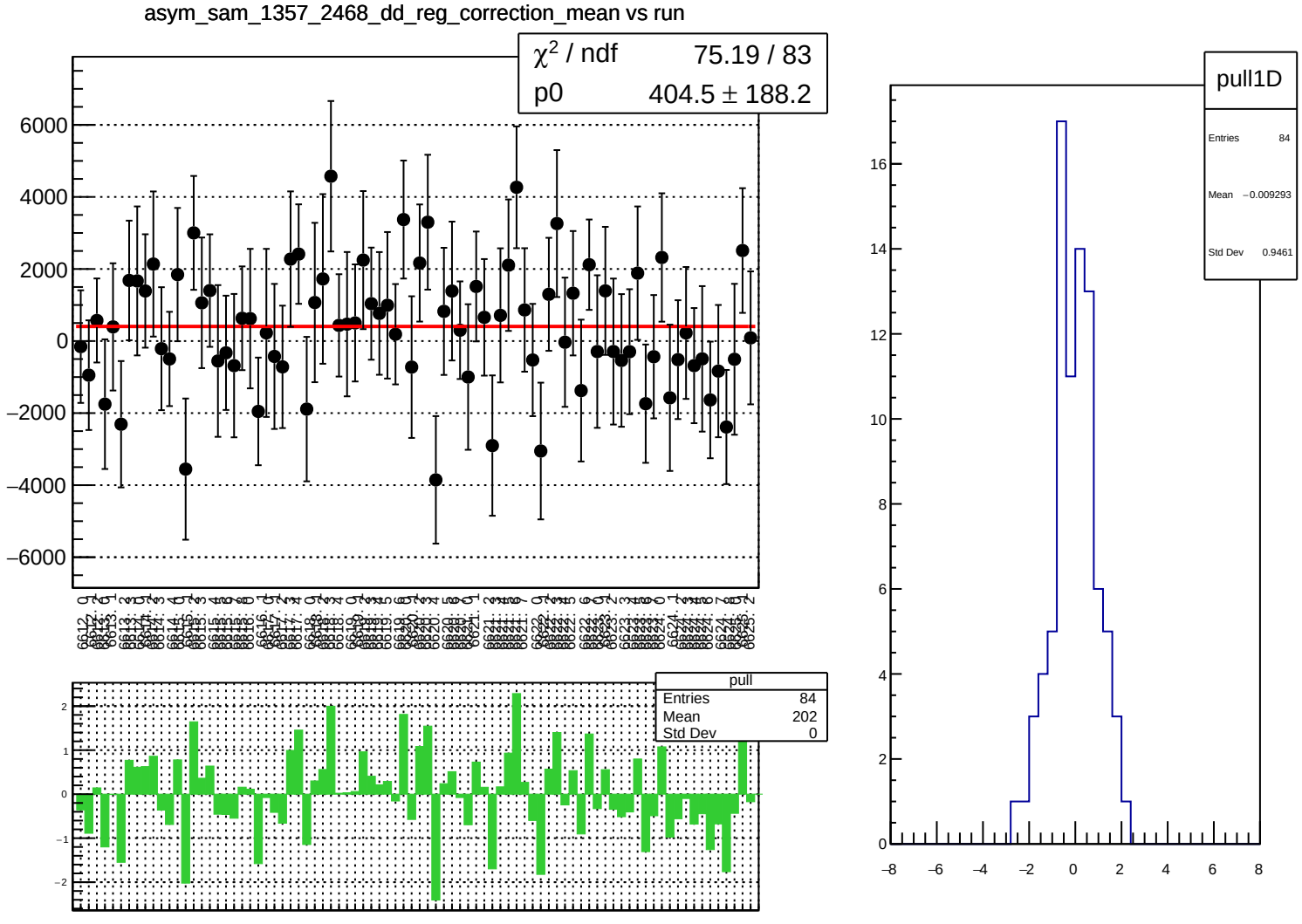

pull1D
Entries 84
Mean −0.03312
Std Dev 0.8729

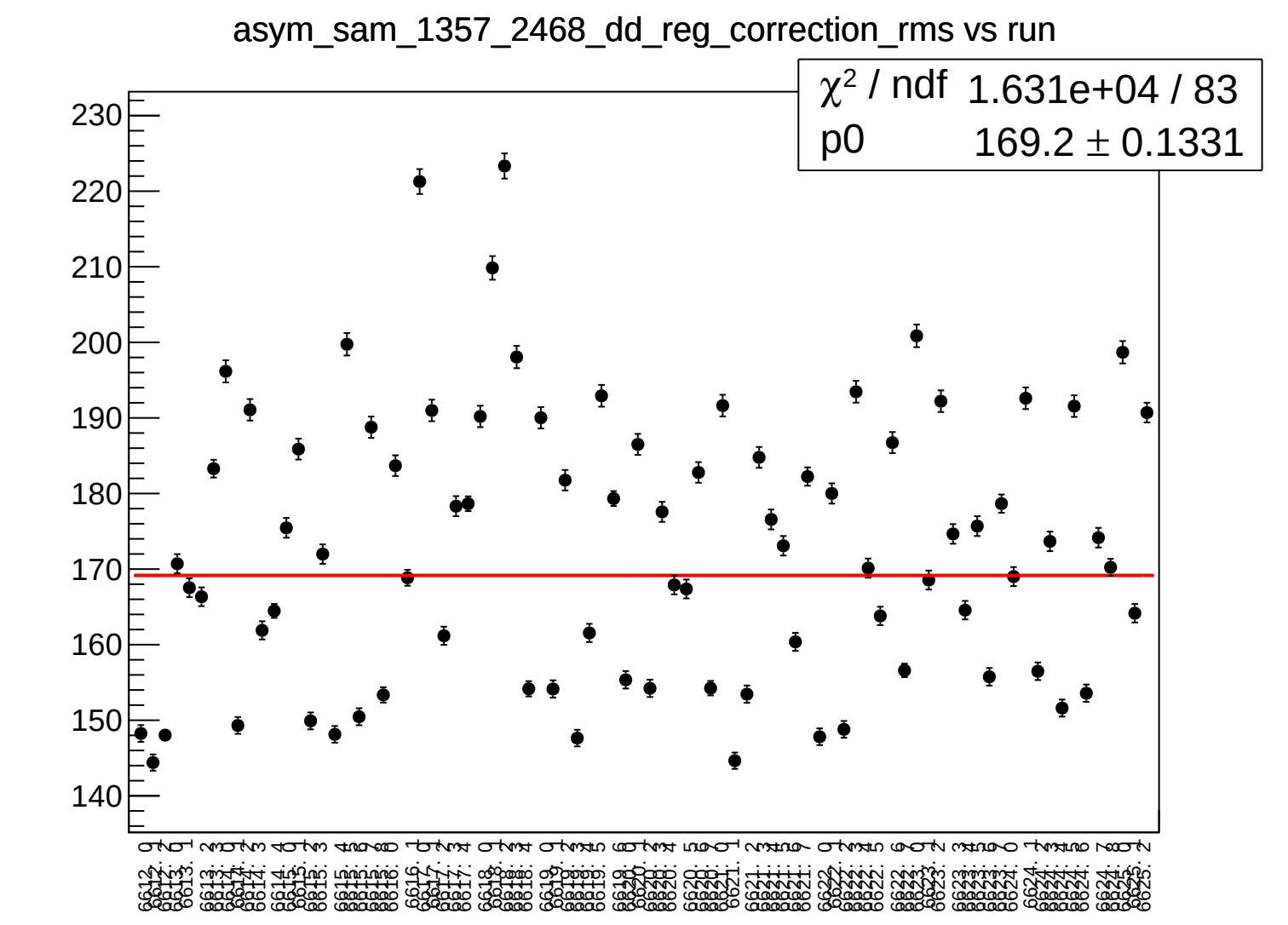

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.086e+05 / 83
p0 9.612e−12 ± 9.498e−15
80
70
60
50
40
30
20
10

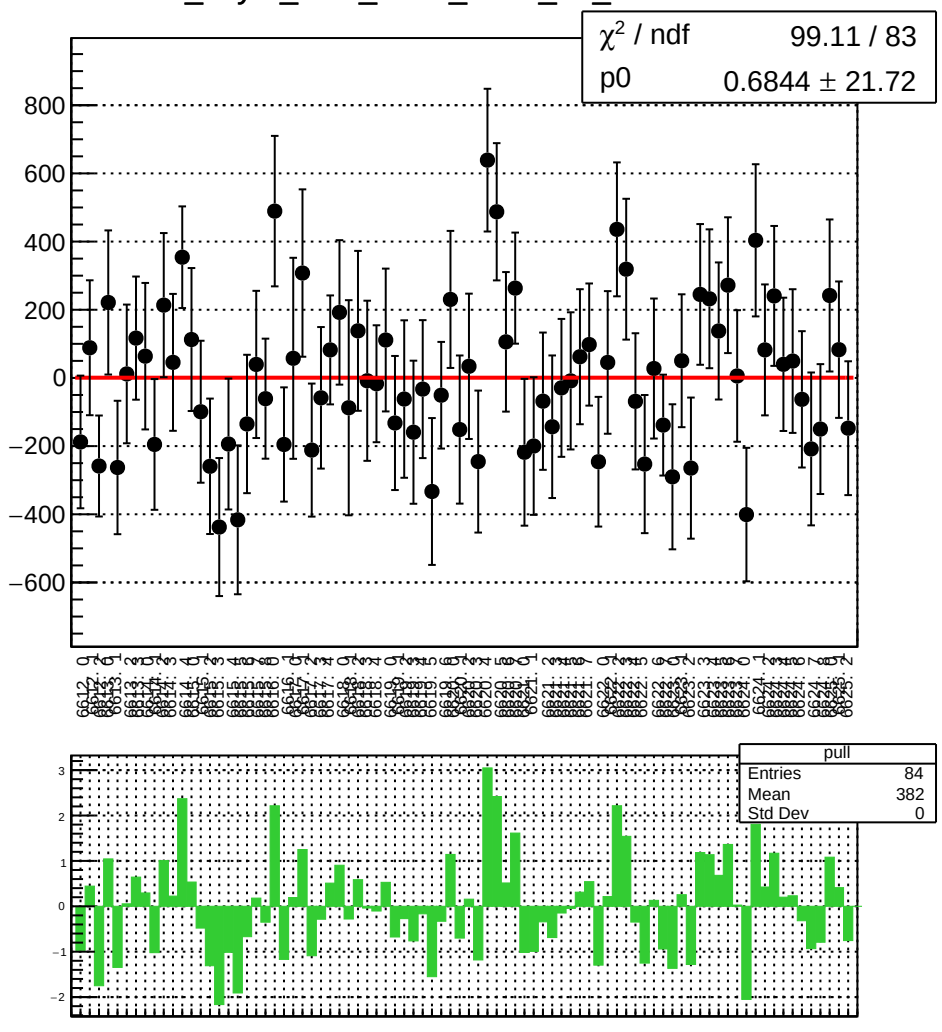

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 99.11 / 83
p0 0.6843 ± 21.72
pull
Entries 84
Mean 382
Std Dev 0

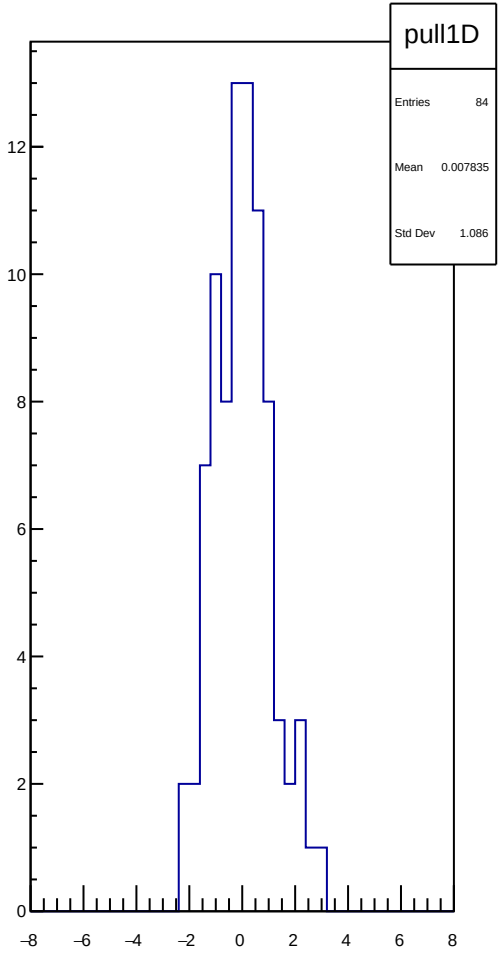

pull1D
Entries 84
Mean 0.007834
Std Dev 1.086

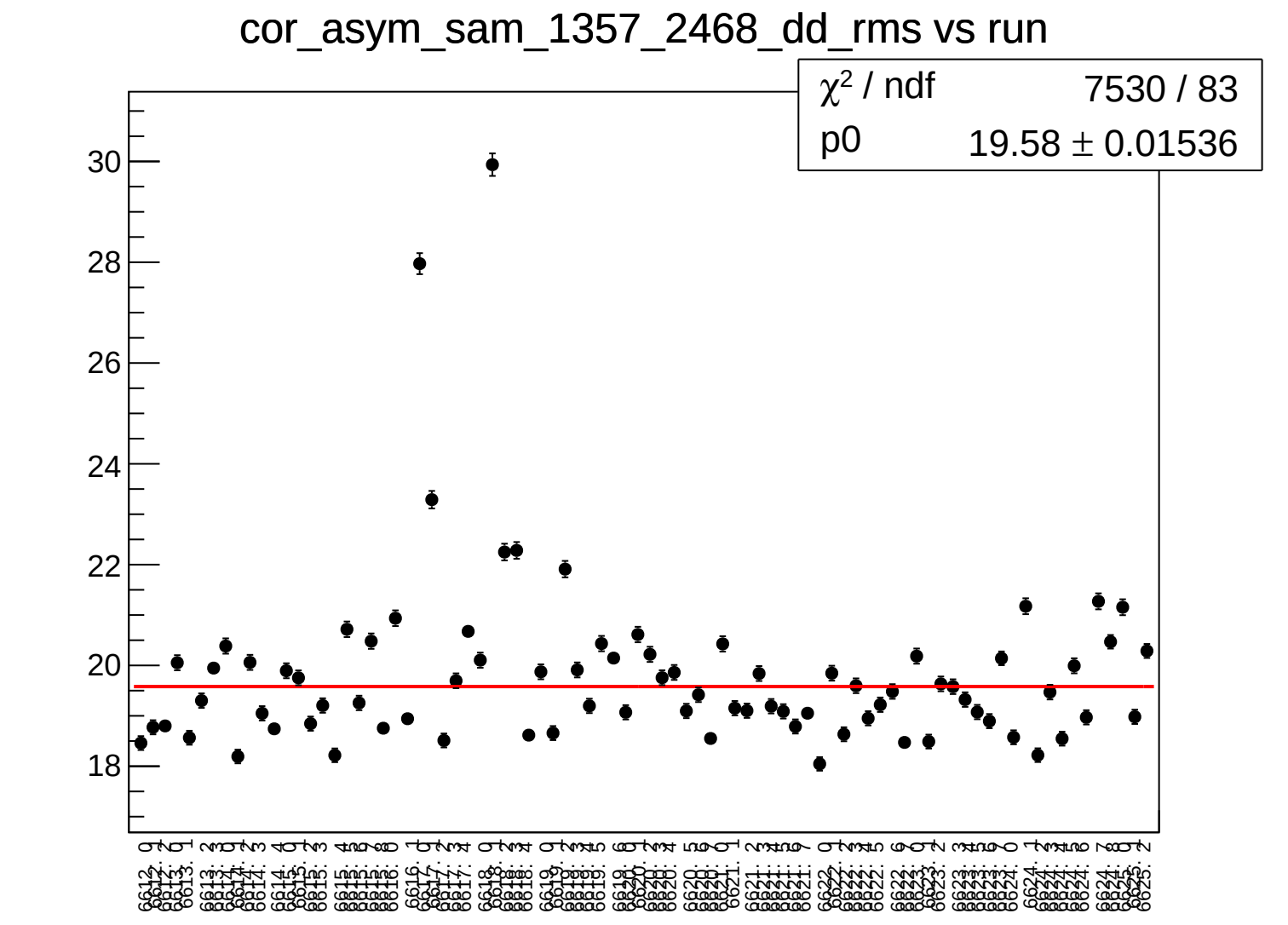

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7530 / 83
p0 19.58 ± 0.01536
30
28
26
24
22
20
18

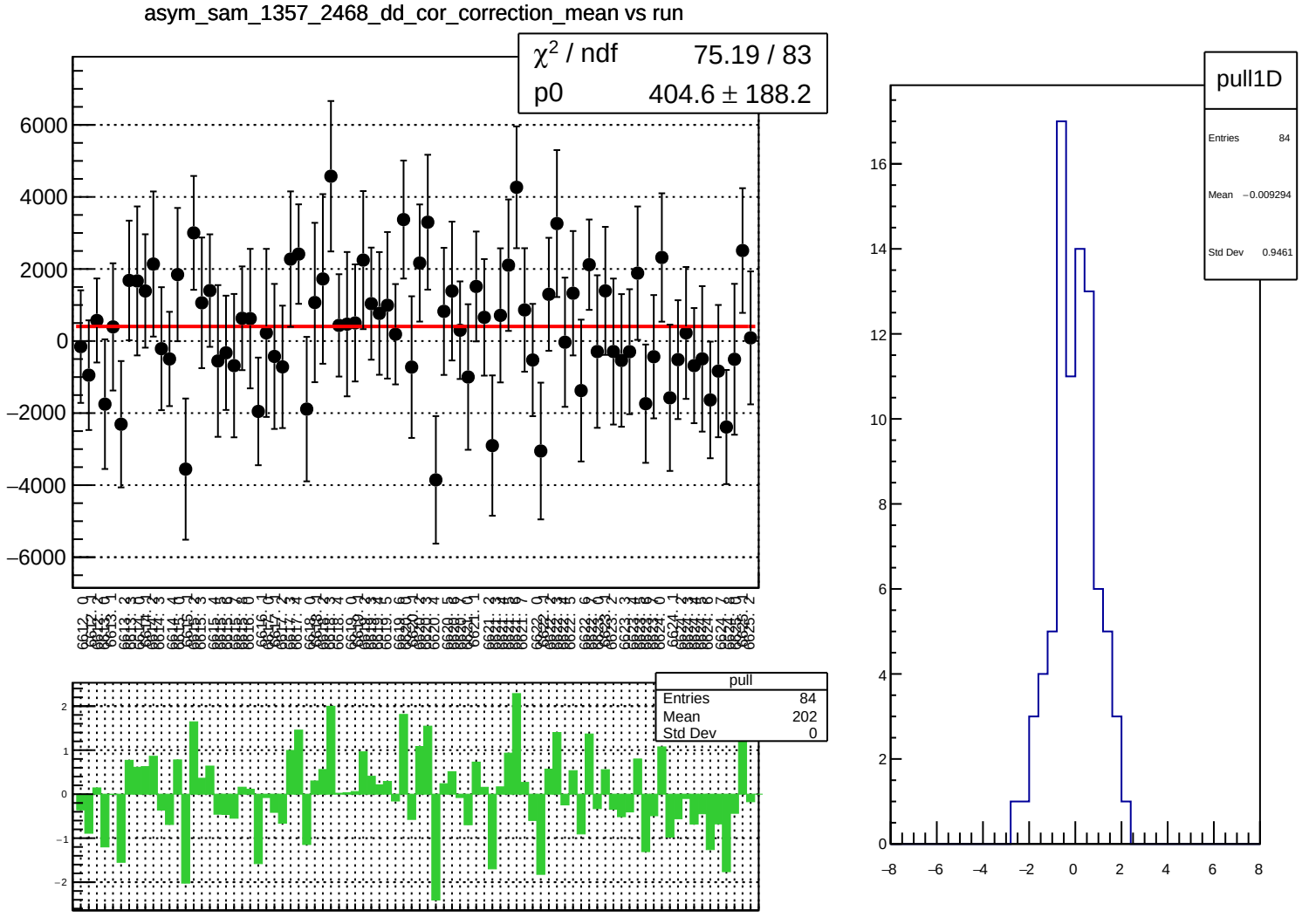

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 75.19 / 83
p0 404.5 ± 188.2
pull
Entries 84
Mean 202
Std Dev 0
pull1D
Entries 84
Mean −0.009293
Std Dev 0.9461

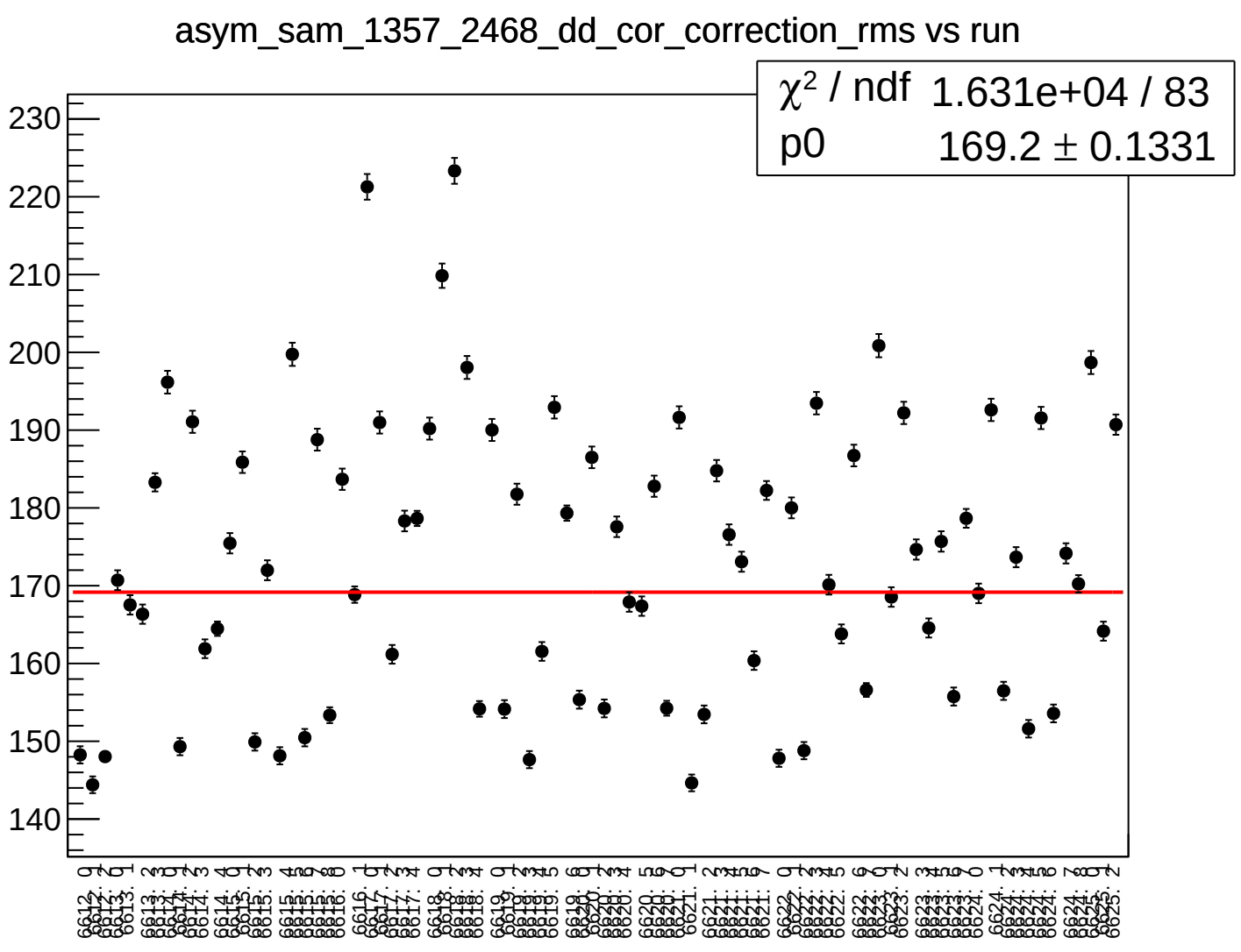

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1.631e+04 / 83
p0 169.2 ± 0.1331
230
220
210
200
190
180
170
160
150
140

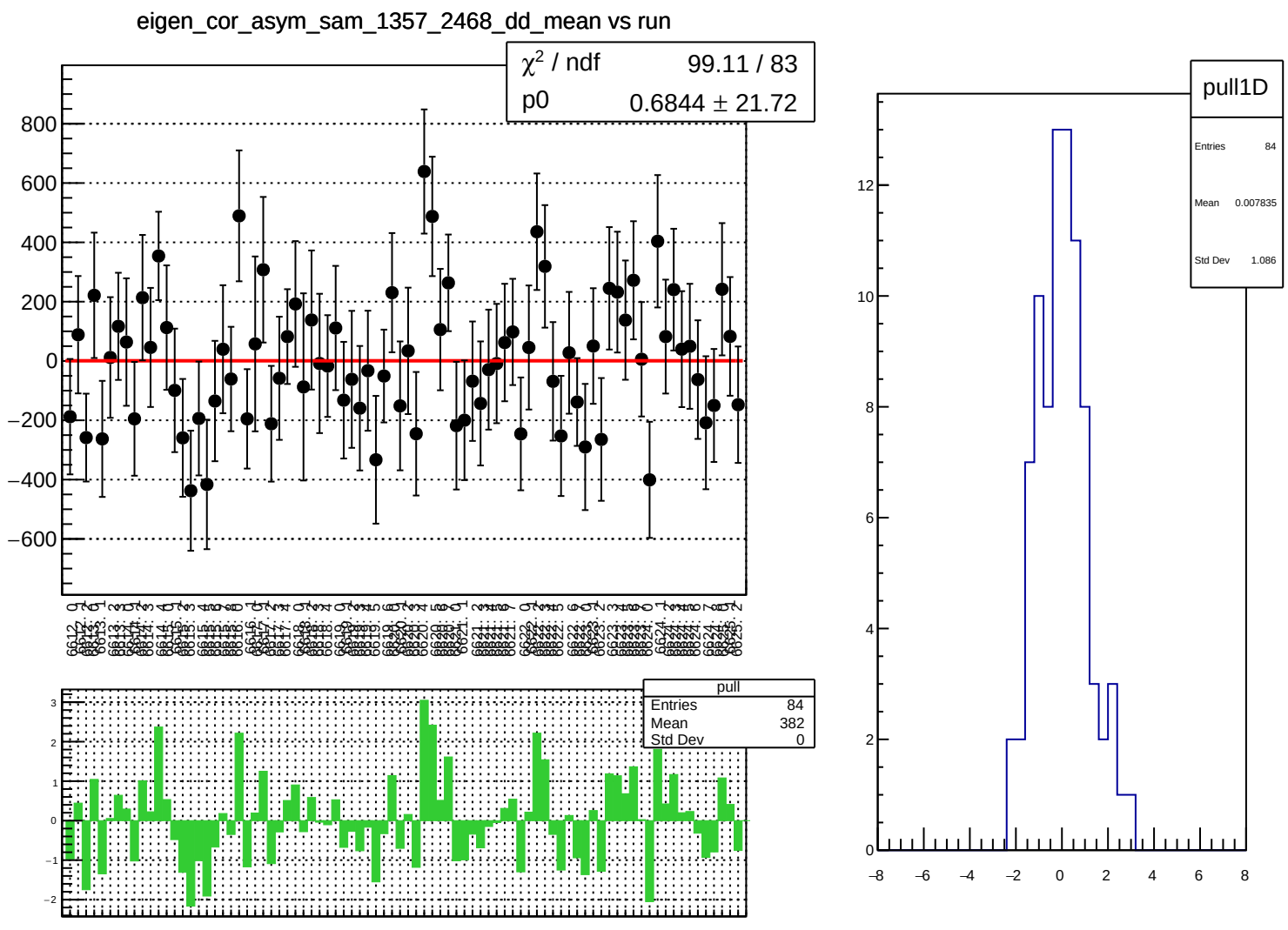

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 99.11 / 83
p0 0.6844 ± 21.72
pull
Entries 84
Mean 382
Std Dev 0

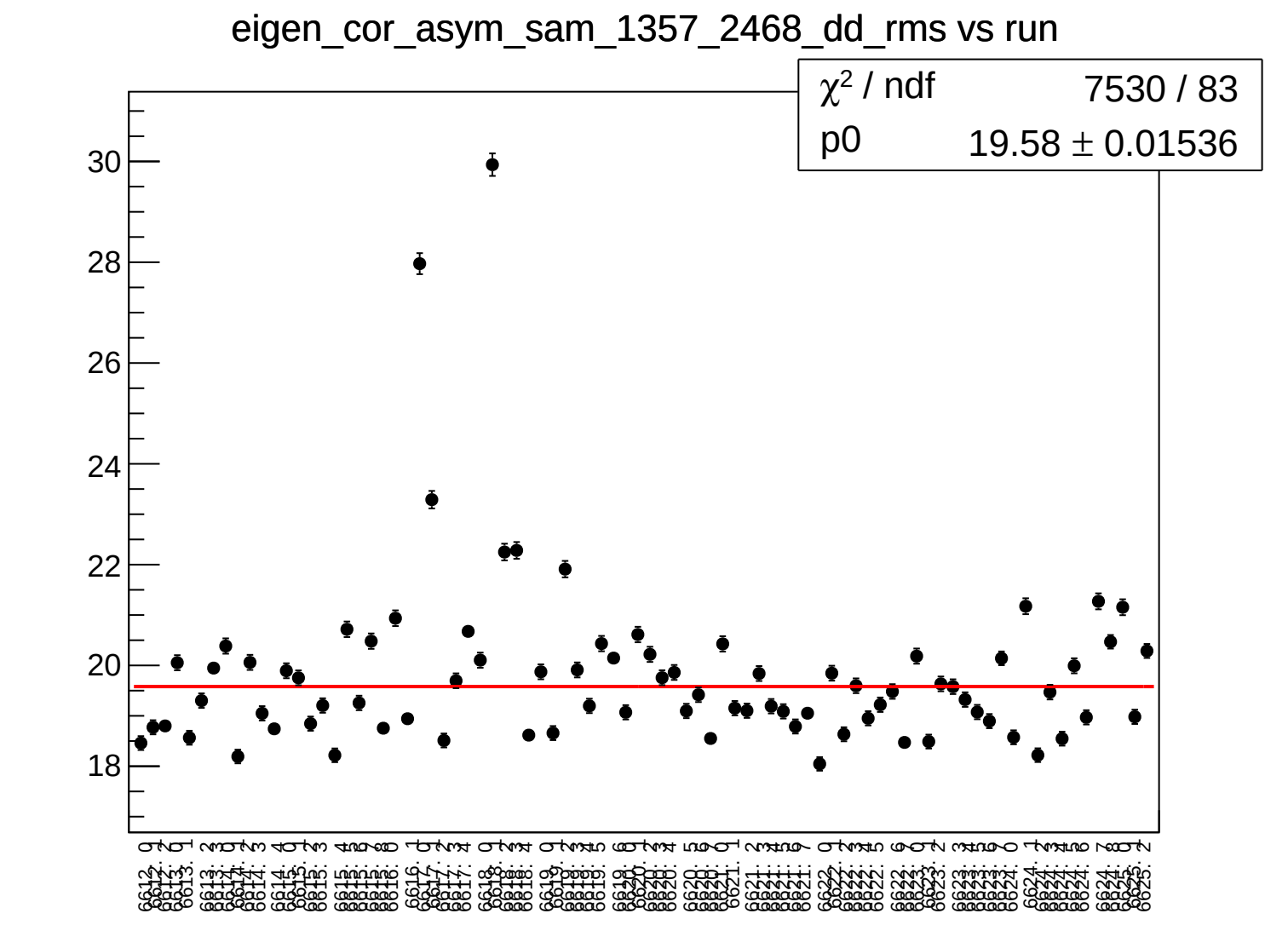

pull1D
Entries 84
Mean 0.007835
Std Dev 1.086

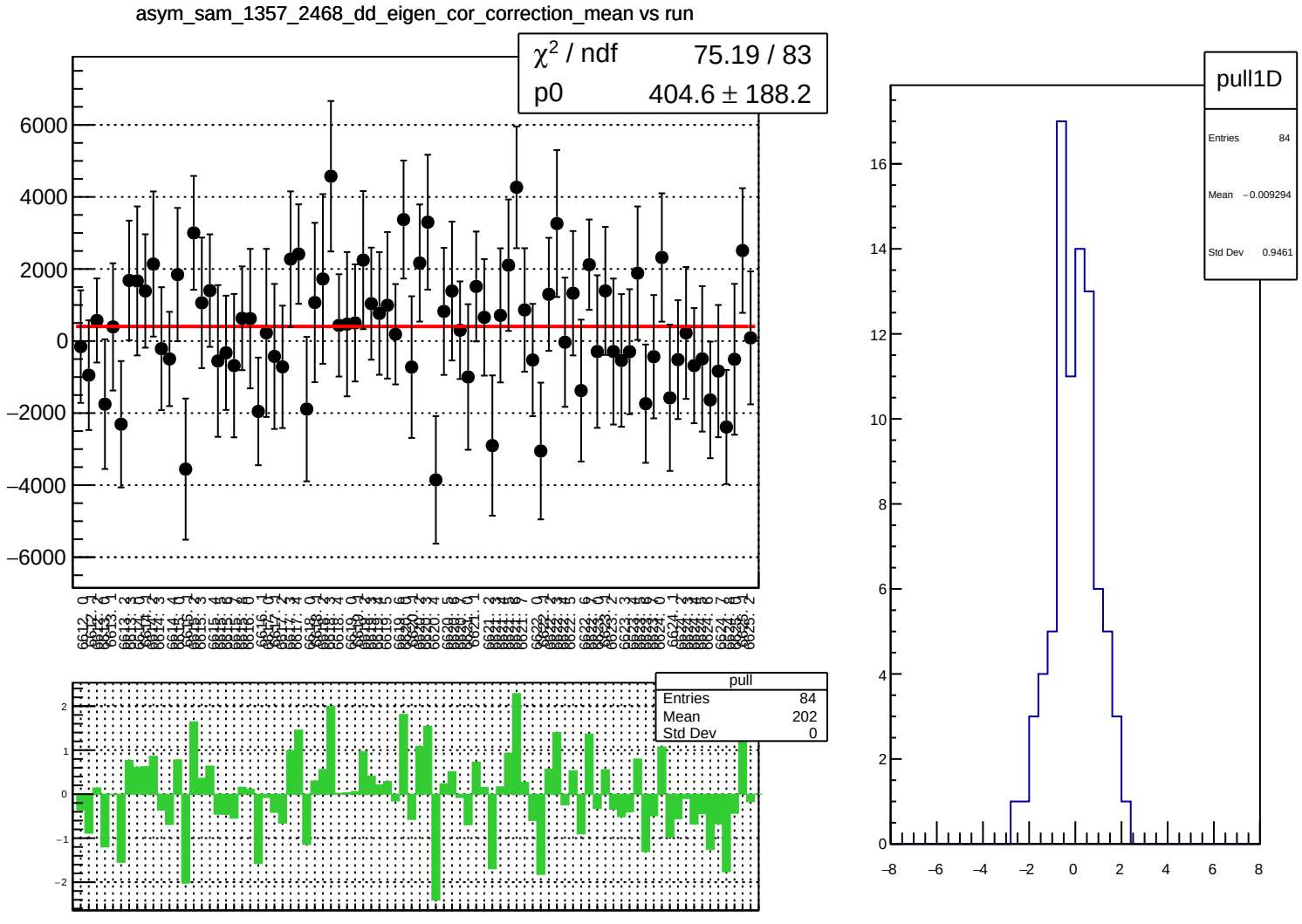

cor_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 7530 / 83
p0 19.58 ± 0.01536
30
28
26
24
22
20
18

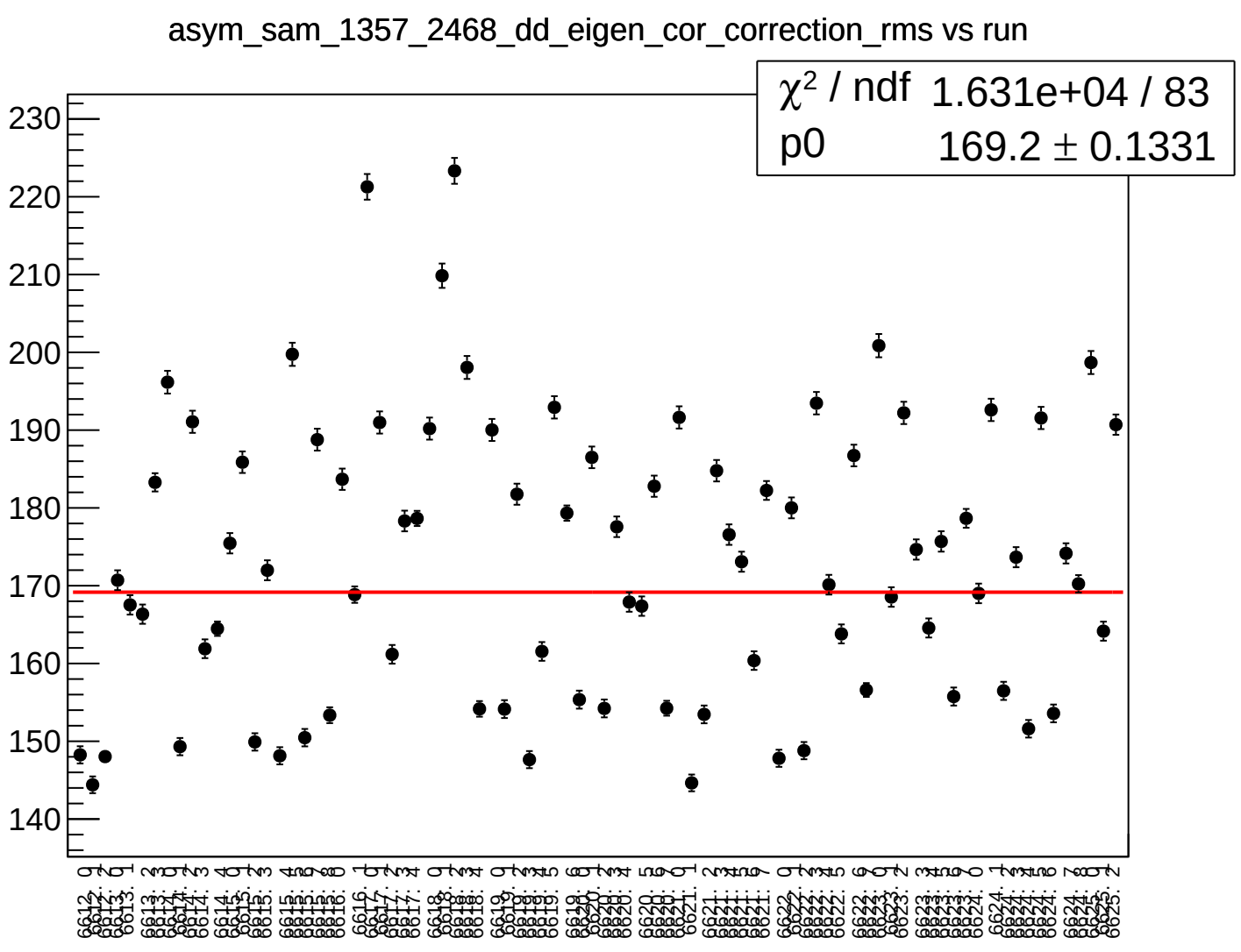

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 75.19 / 83
p0 404.6 ± 188.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 202
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.009294
Std Dev 0.9461
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

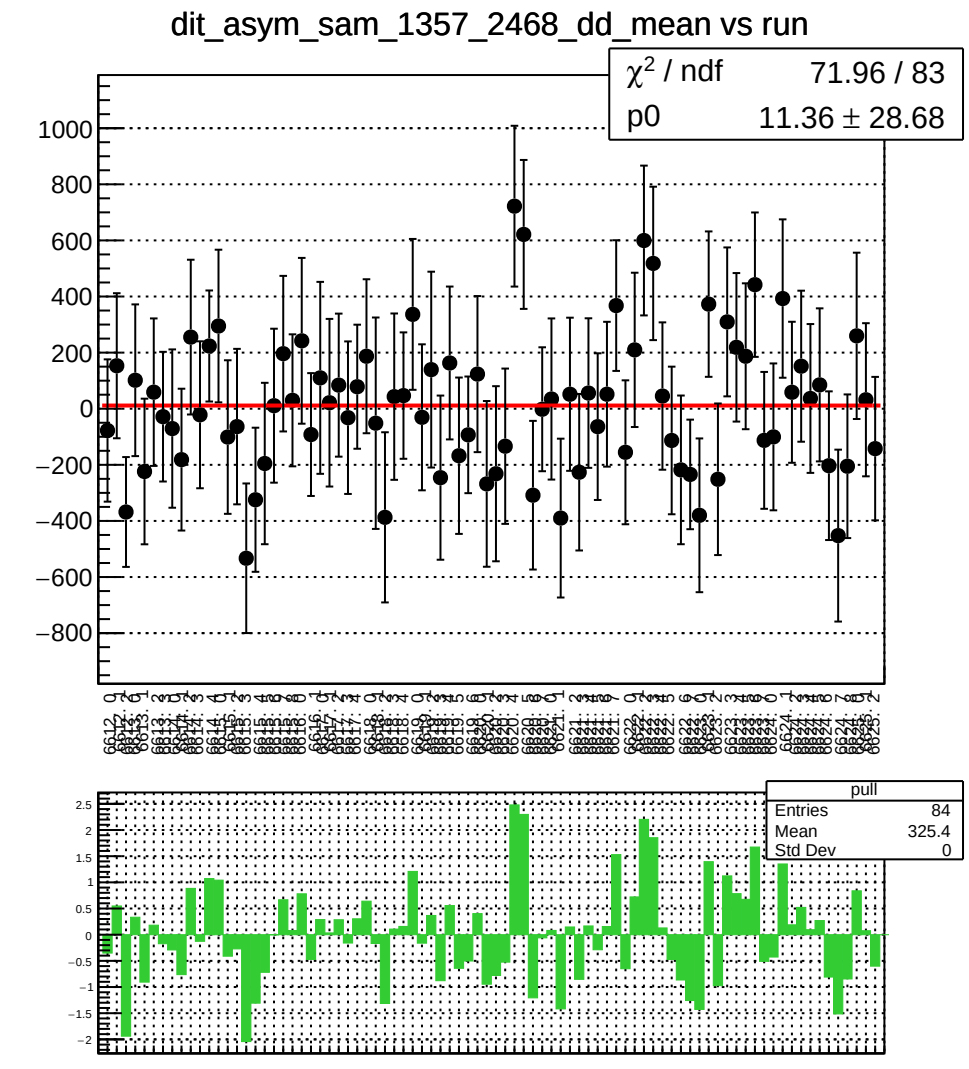

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 1.631e+04 / 83
p0 169.2 ± 0.1331
230
220
210
200
190
180
170
160
150
140

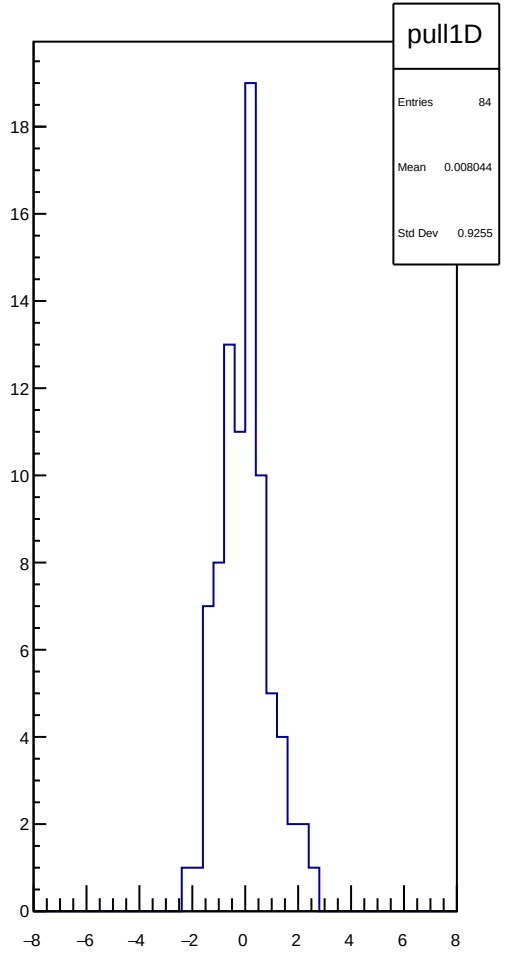

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 99.11 / 83
p0 0.6844 ± 21.72
800
600
400
200
0
−200
−400
−600
pull
Entries 84
Mean 382
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.007835
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

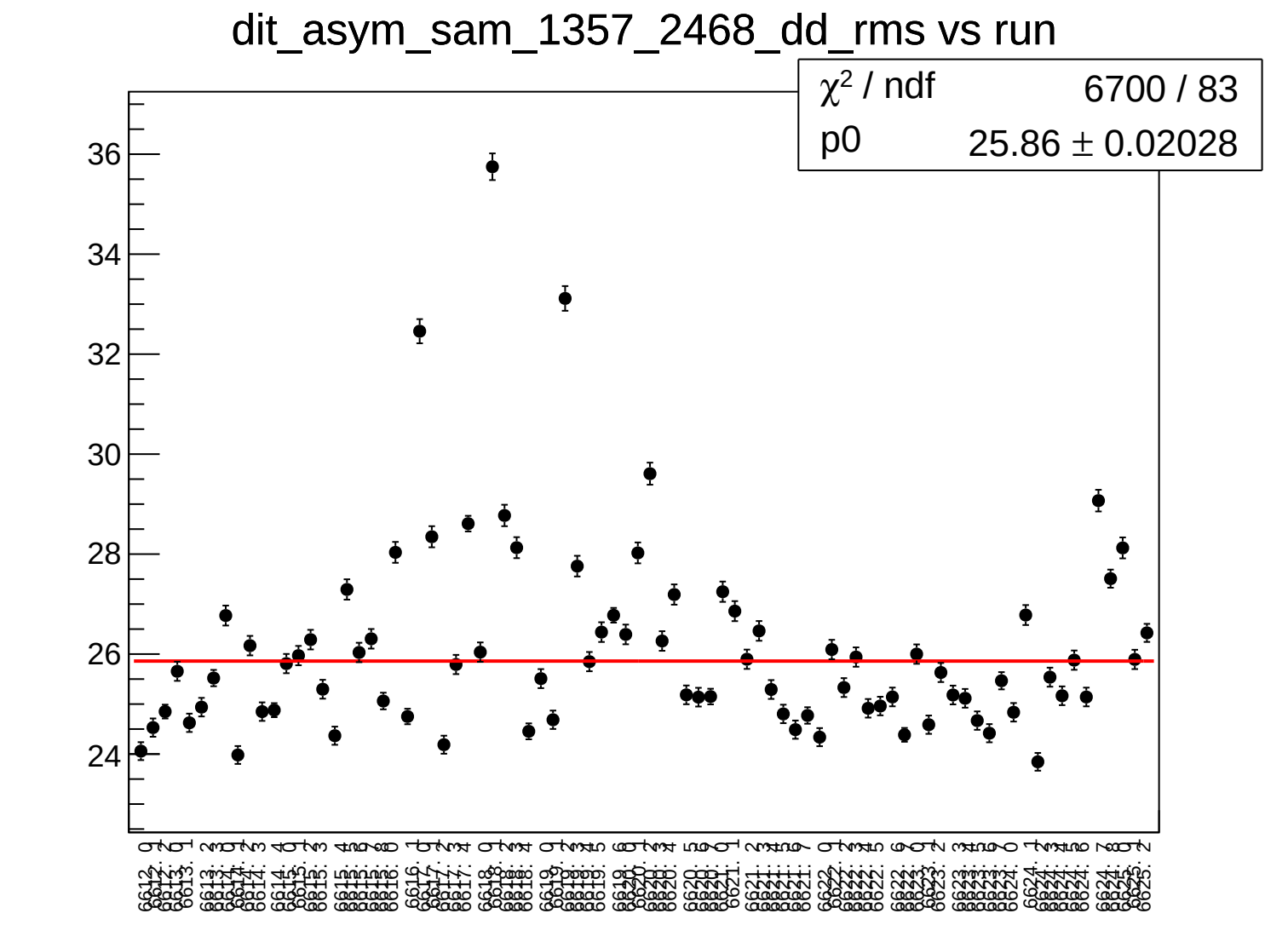

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7530 / 83
p0 19.58 ± 0.01536
30
28
26
24
22
20
18

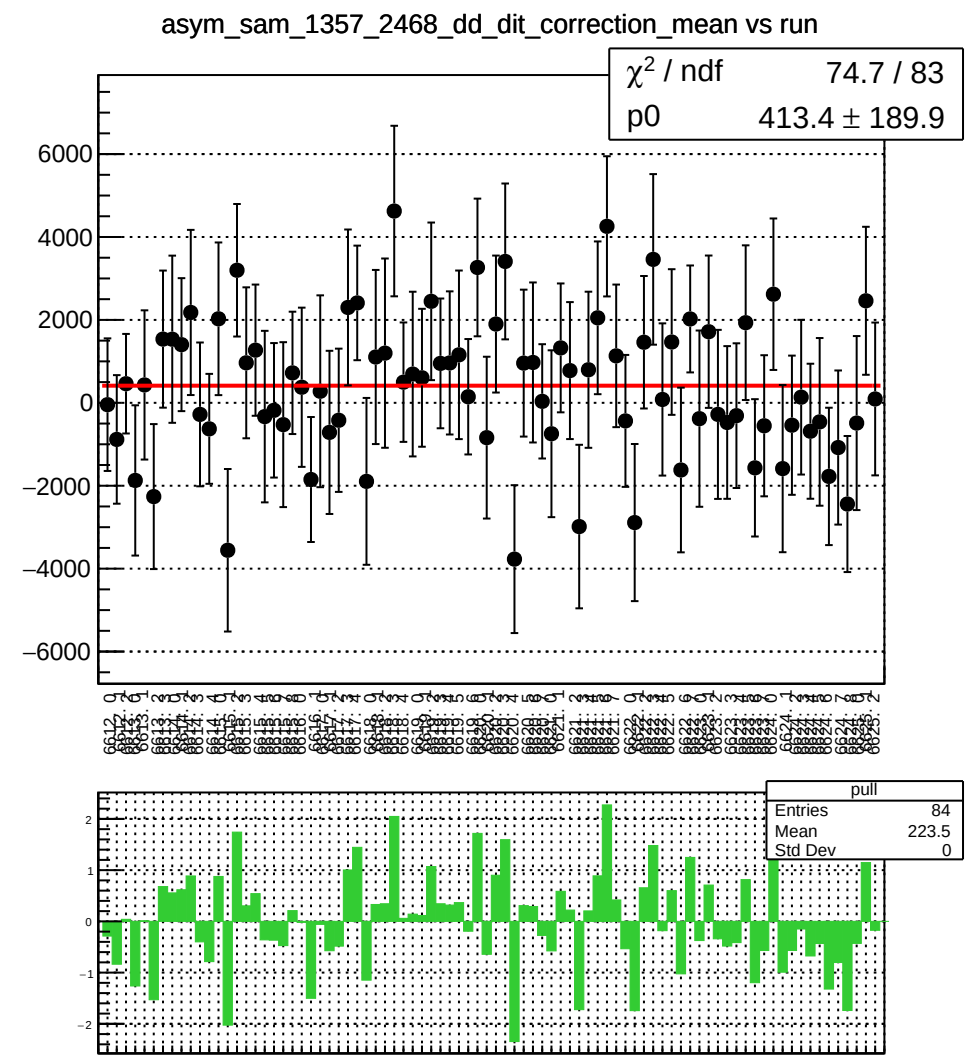

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.19 / 83
p0 404.6 ± 188.2
pull
Entries 84
Mean 202
Std Dev 0
pull1D
Entries 84
Mean −0.009294
Std Dev 0.9461

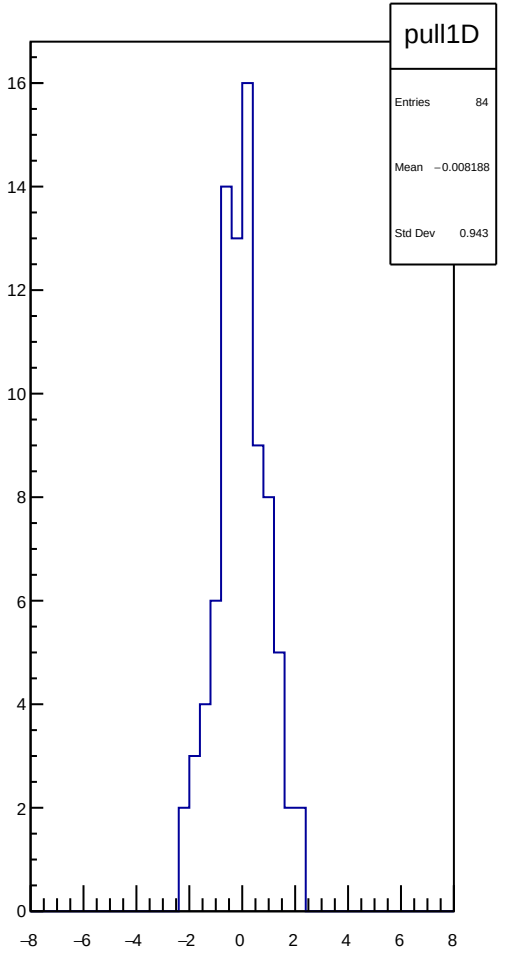

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.631e+04 / 83
p0 169.2 ± 0.1331
230
220
210
200
190
180
170
160
150
140

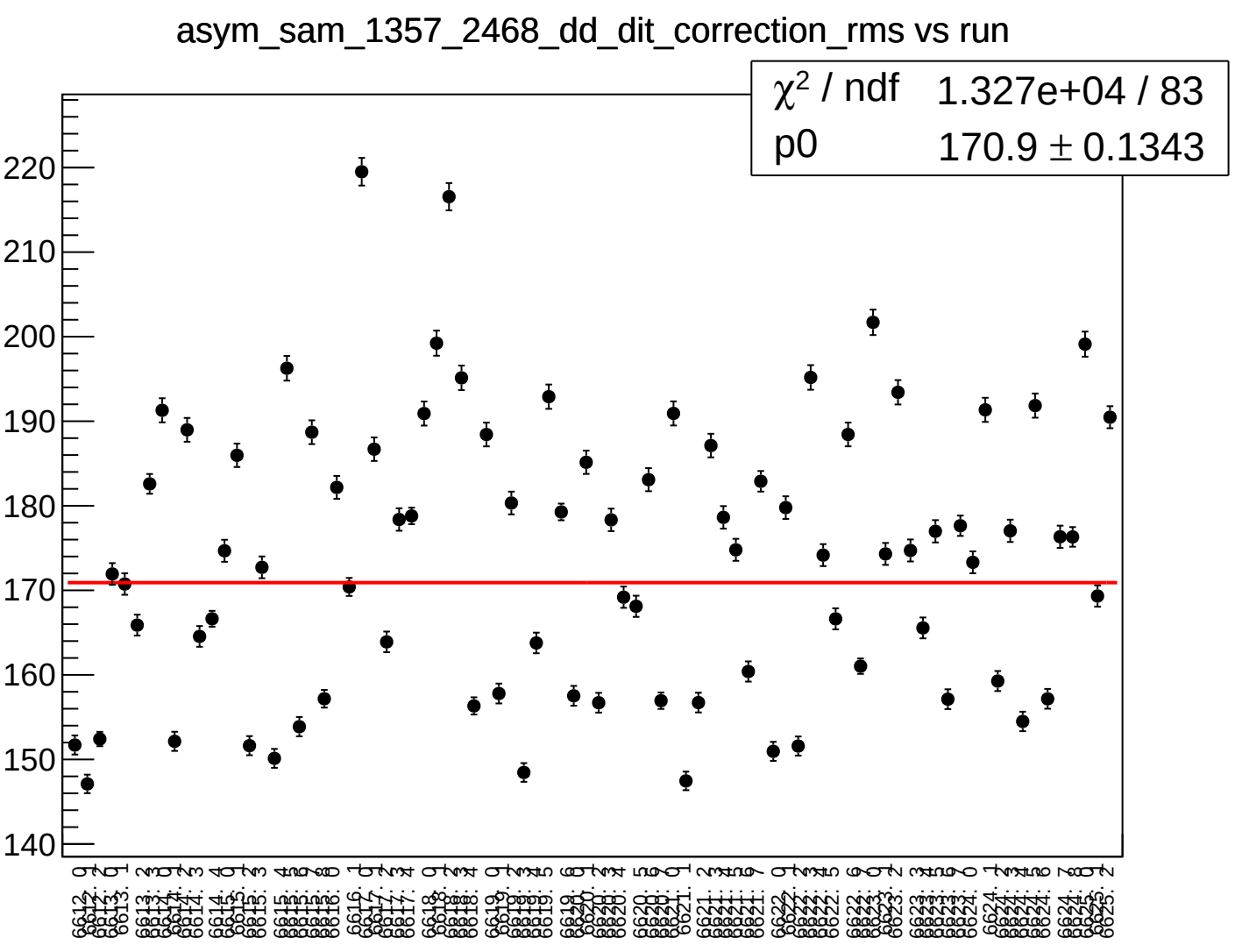

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 71.96 / 83
p0 11.36 ± 28.68
pull
Entries 84
Mean 325.4
Std Dev 0

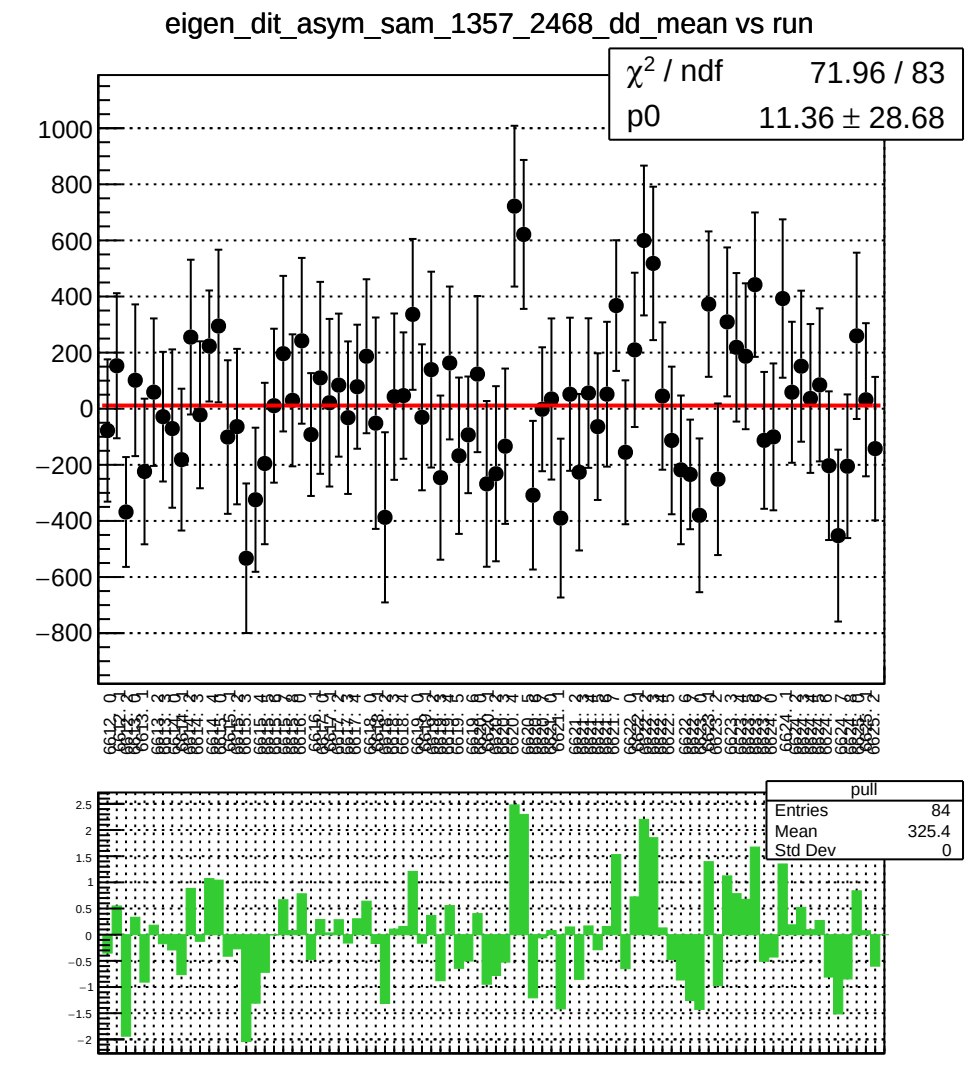

pull1D
Entries 84
Mean 0.008044
Std Dev 0.9255

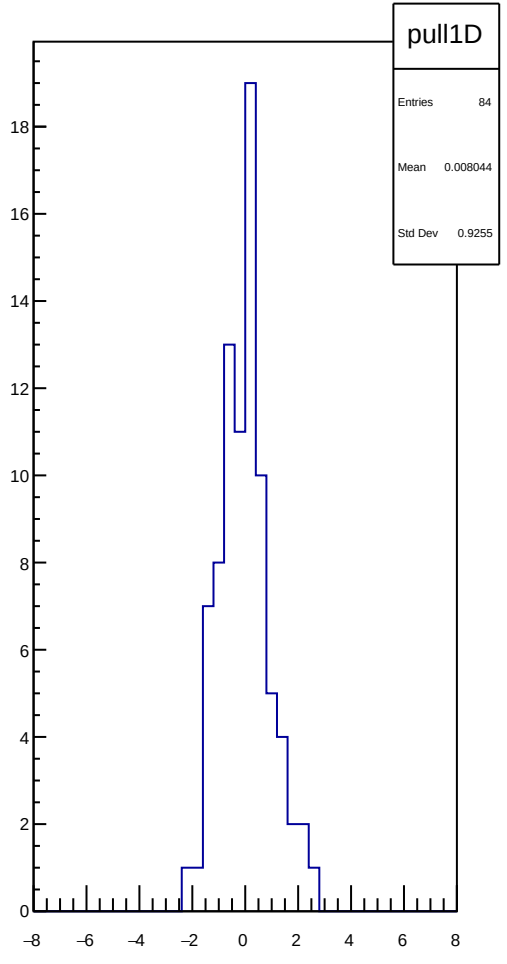

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6700 / 83
p0 25.86 ± 0.02028
36
34
32
30
28
26
24

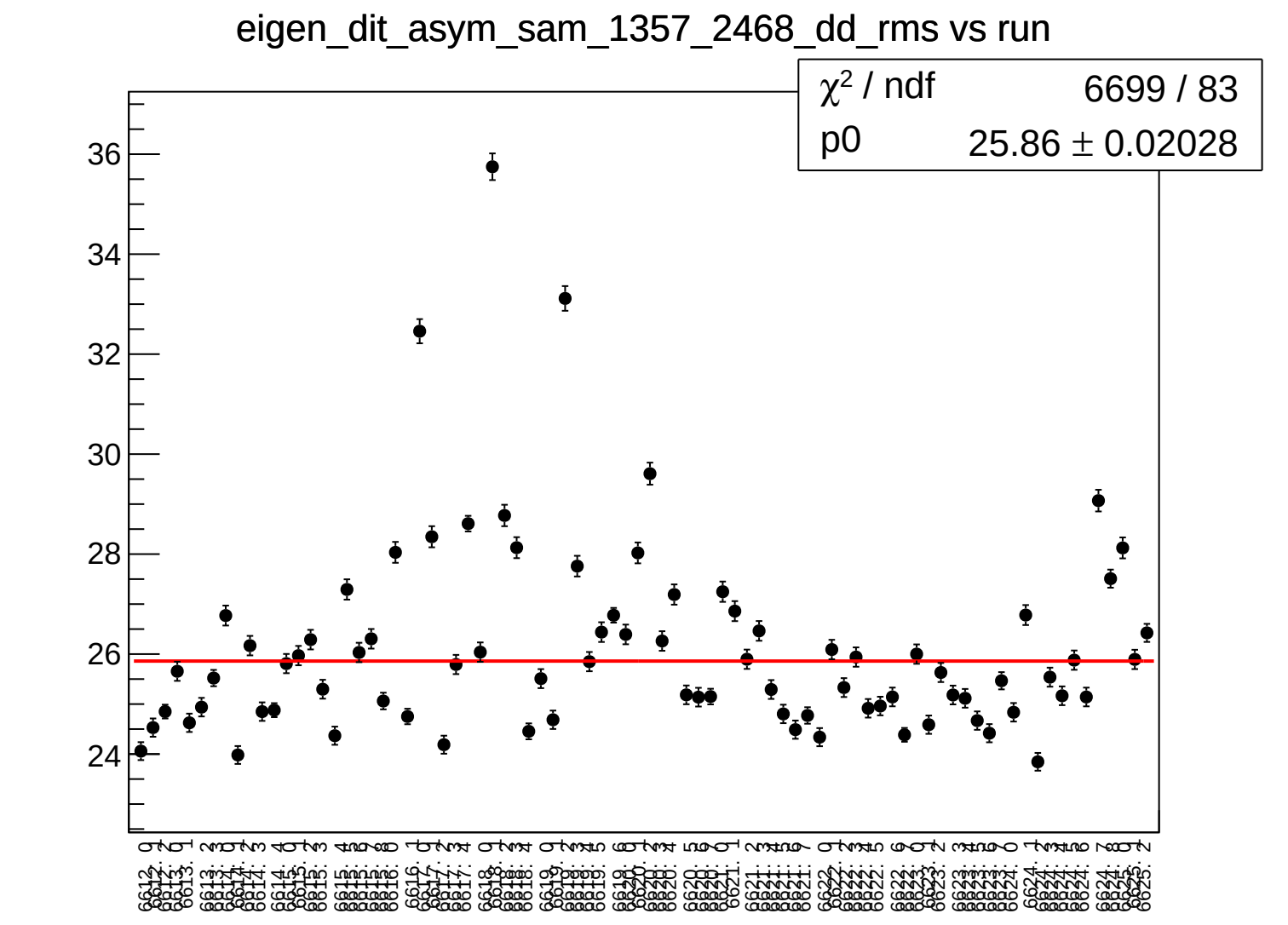

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 74.7 / 83
p0 413.4 ± 189.9
pull
Entries 84
Mean 223.5
Std Dev 0

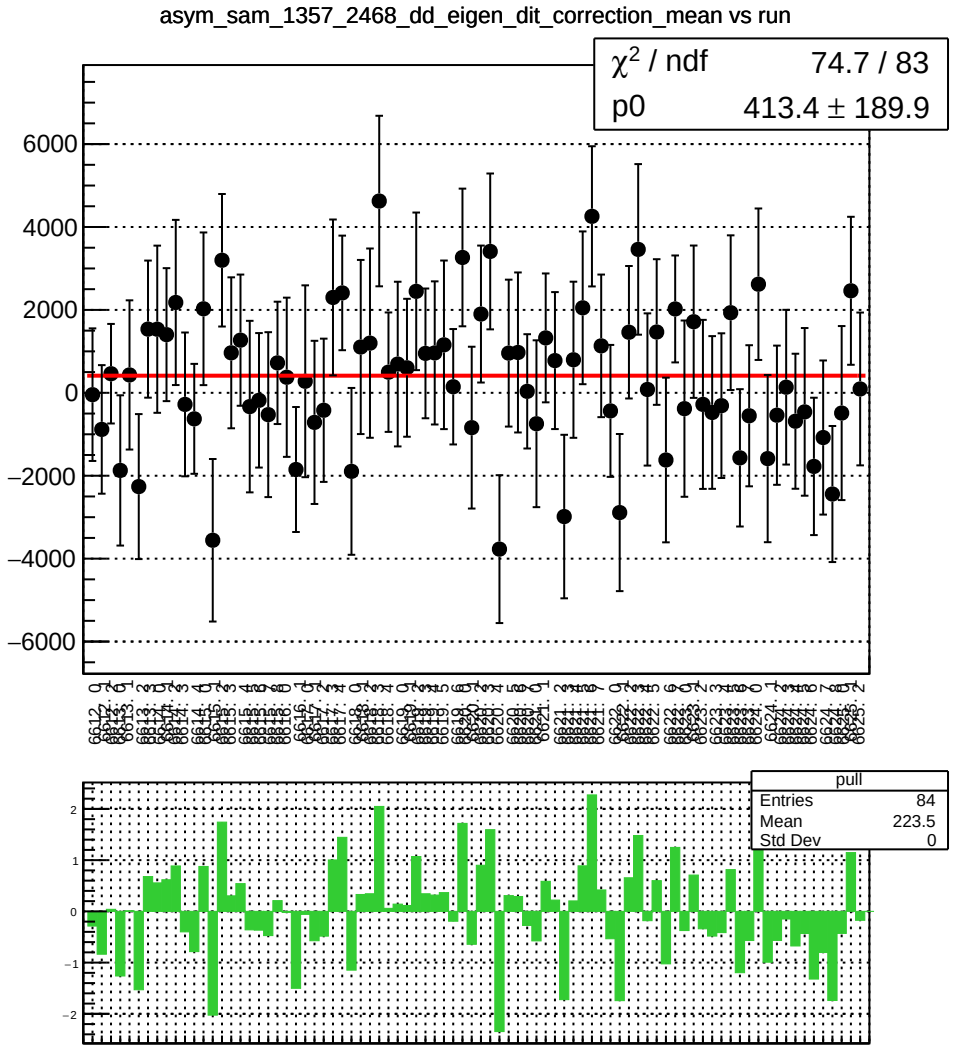

pull1D
Entries 84
Mean −0.008188
Std Dev 0.943

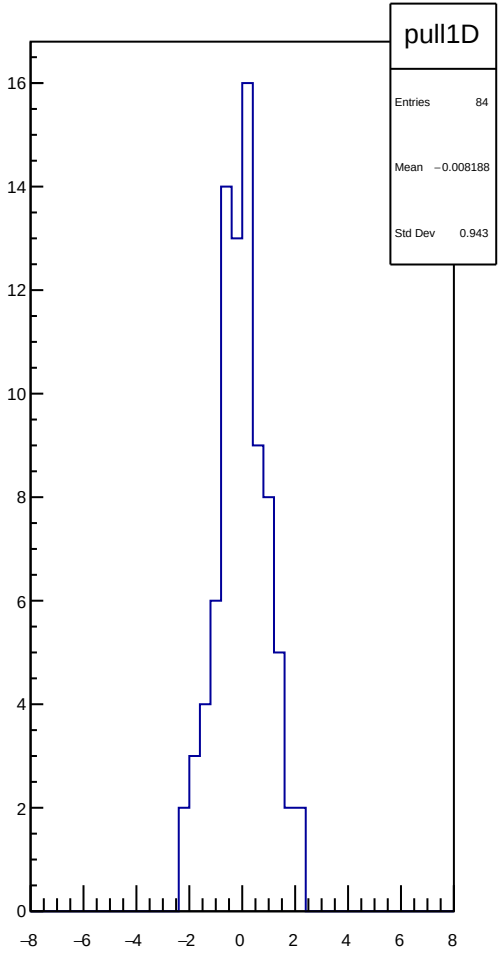

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 1.327e+04 / 83
p0 170.9 ± 0.1343
220
210
200
190
180
170
160
150
140

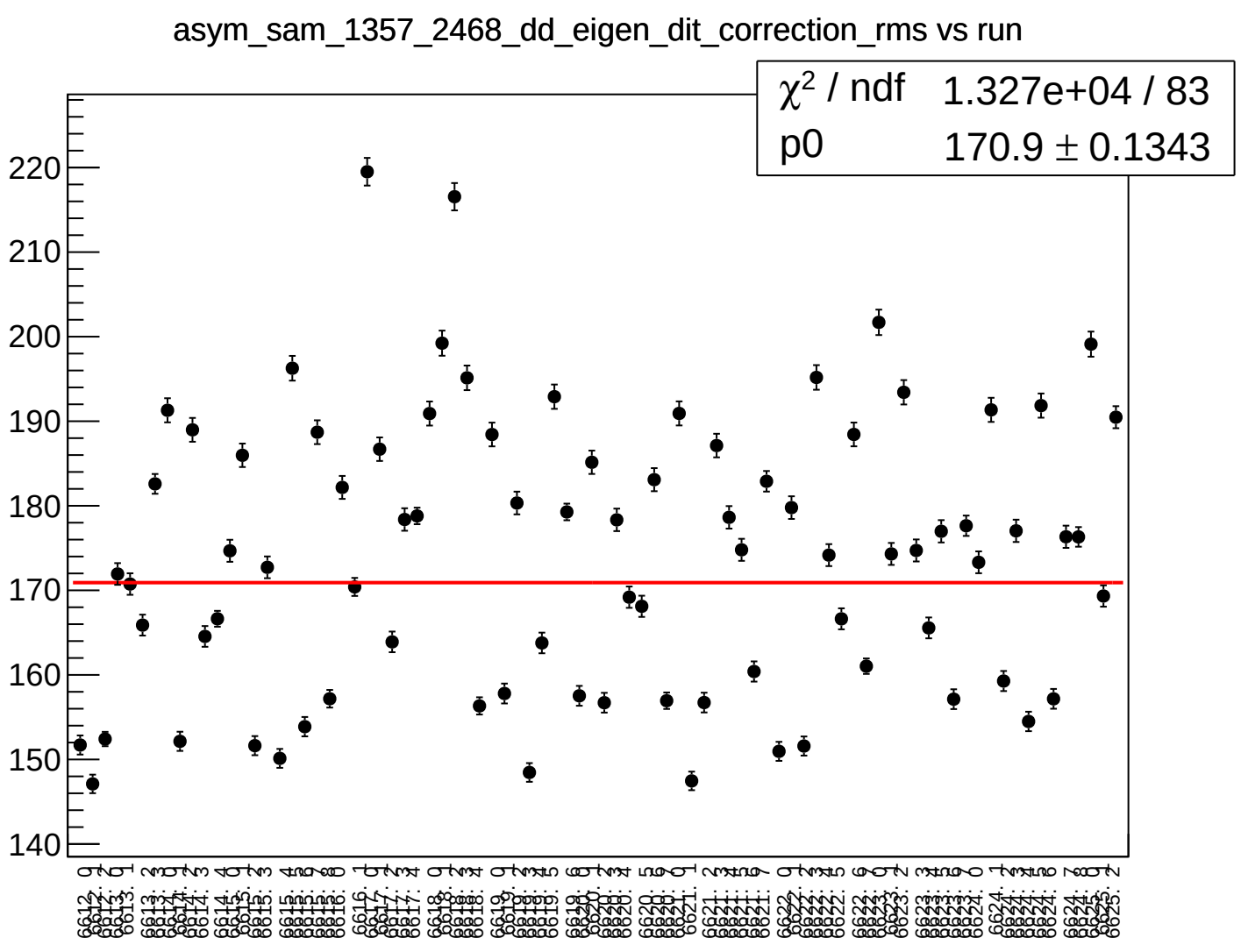

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 71.96 / 83
p0 11.36 ± 28.68
pull
Entries 84
Mean 325.4
Std Dev 0

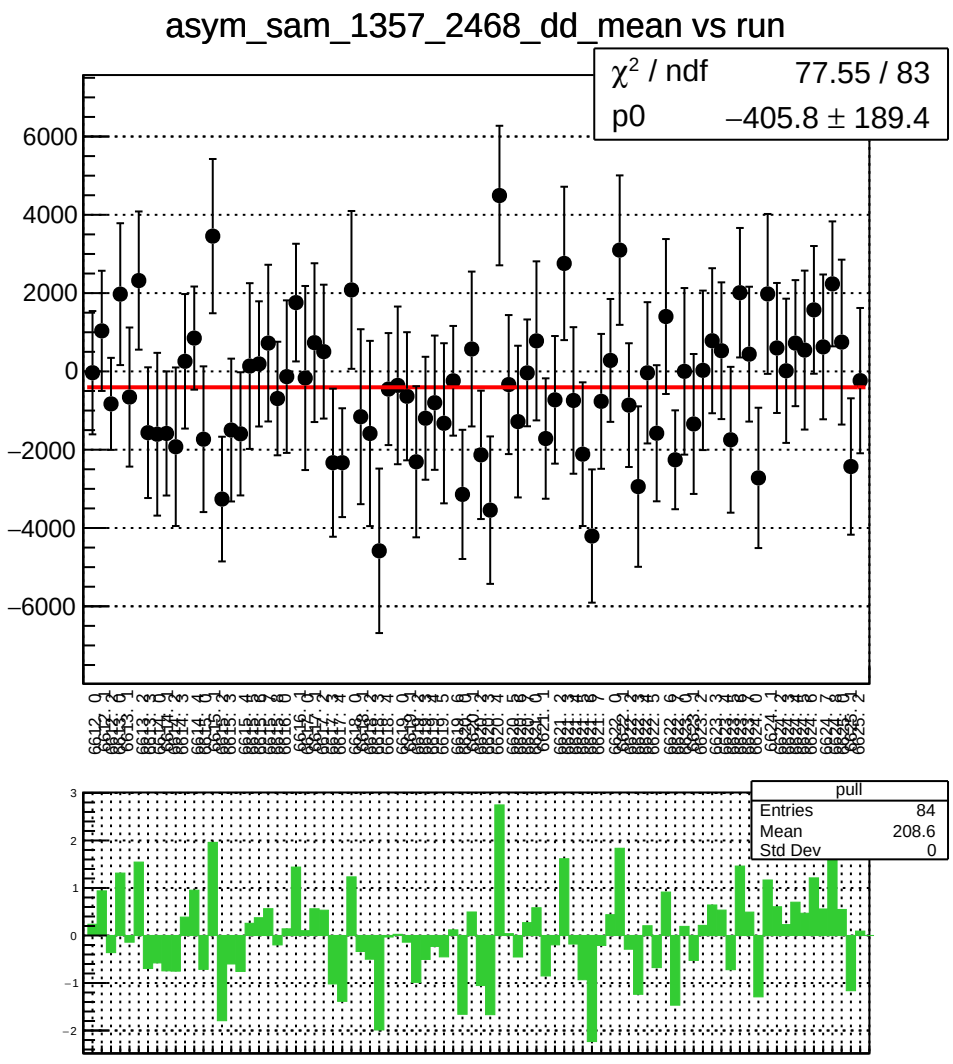

pull1D
Entries 84
Mean 0.008044
Std Dev 0.9255

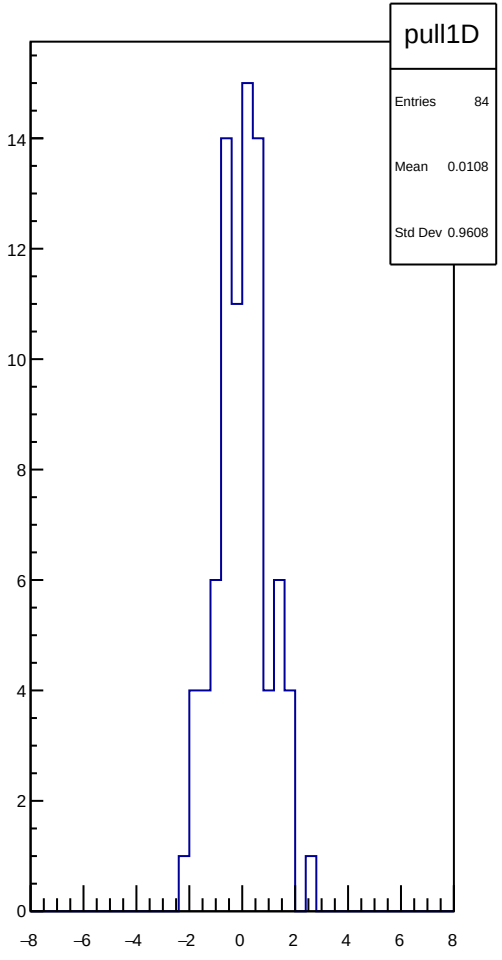

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6699 / 83
p0 25.86 ± 0.02028
36
34
32
30
28
26
24

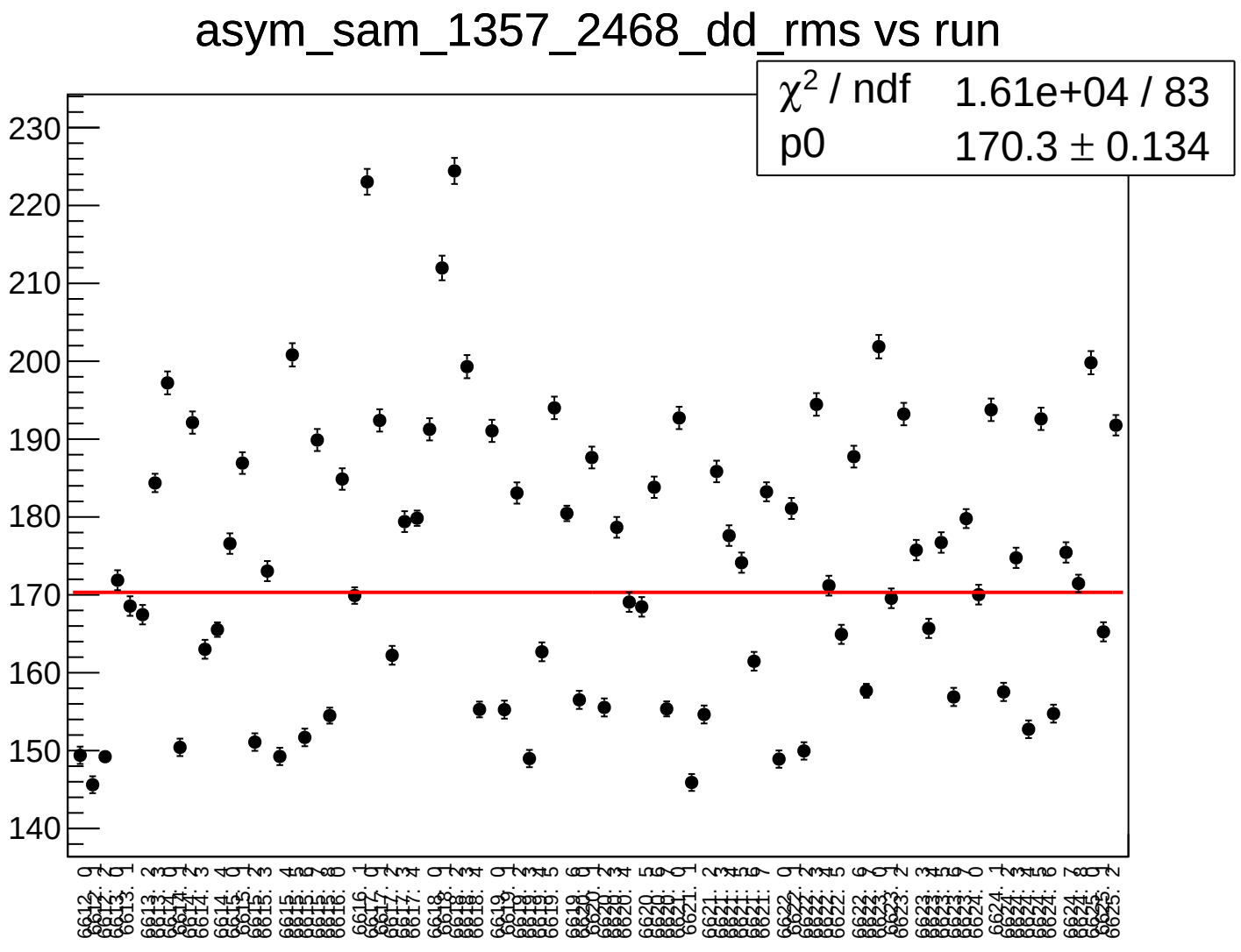

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.7 / 83
p0 413.4 ± 189.9
pull
Entries 84
Mean 223.5
Std Dev 0

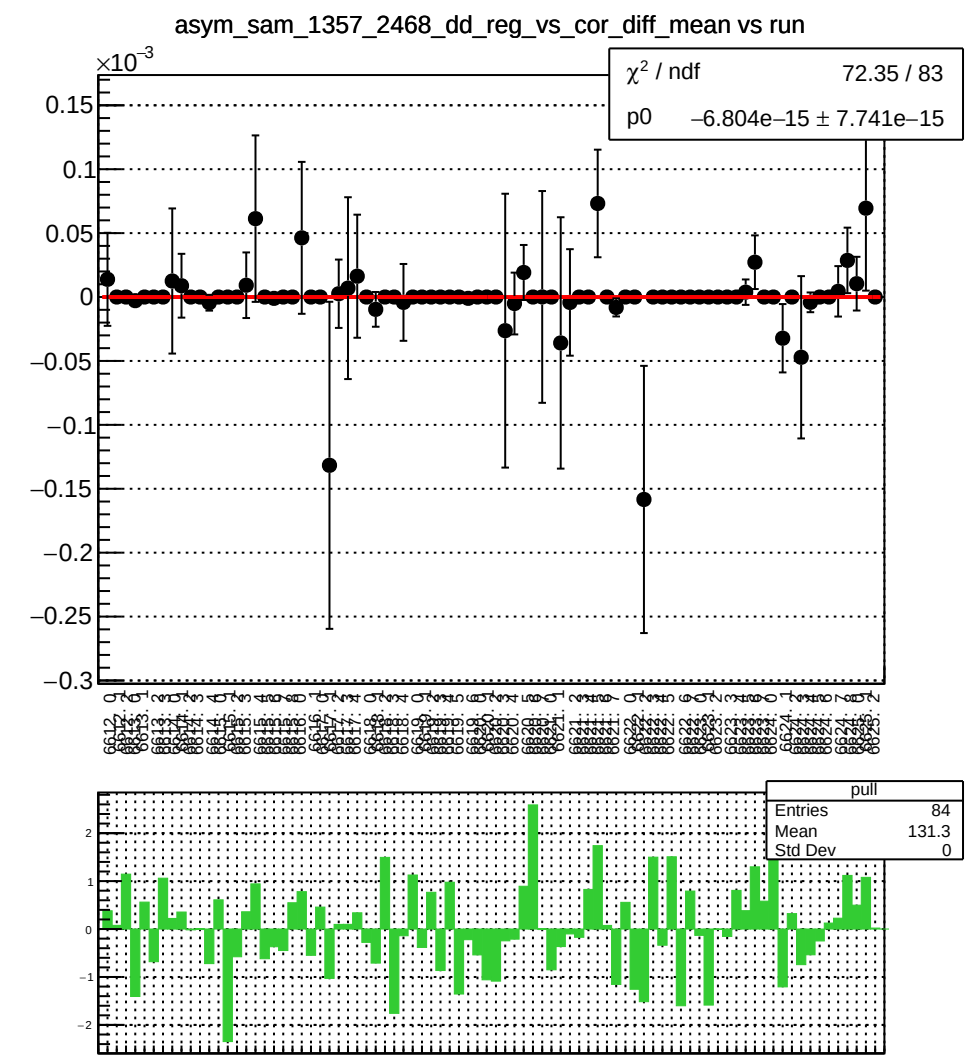

pull1D
Entries 84
Mean −0.008188
Std Dev 0.943

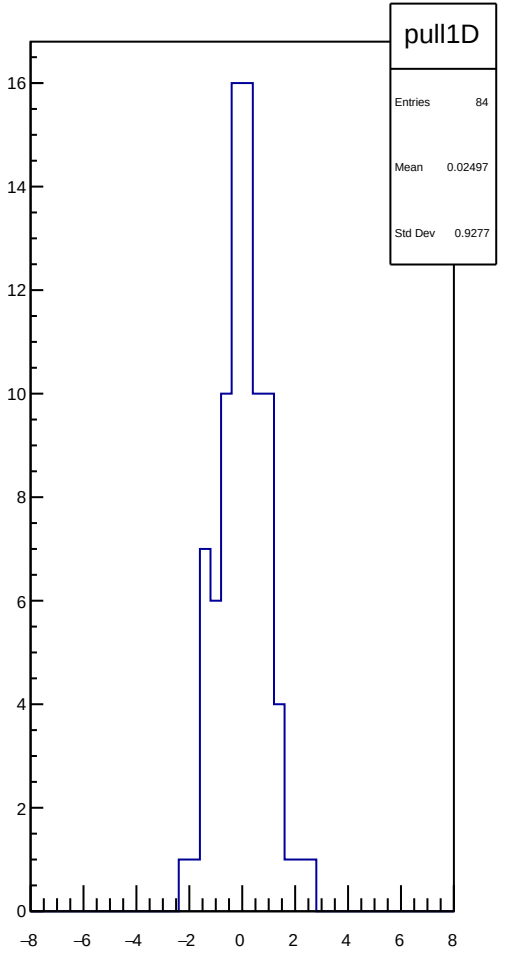

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.327e+04 / 83
p0 170.9 ± 0.1343
220
210
200
190
180
170
160
150
140

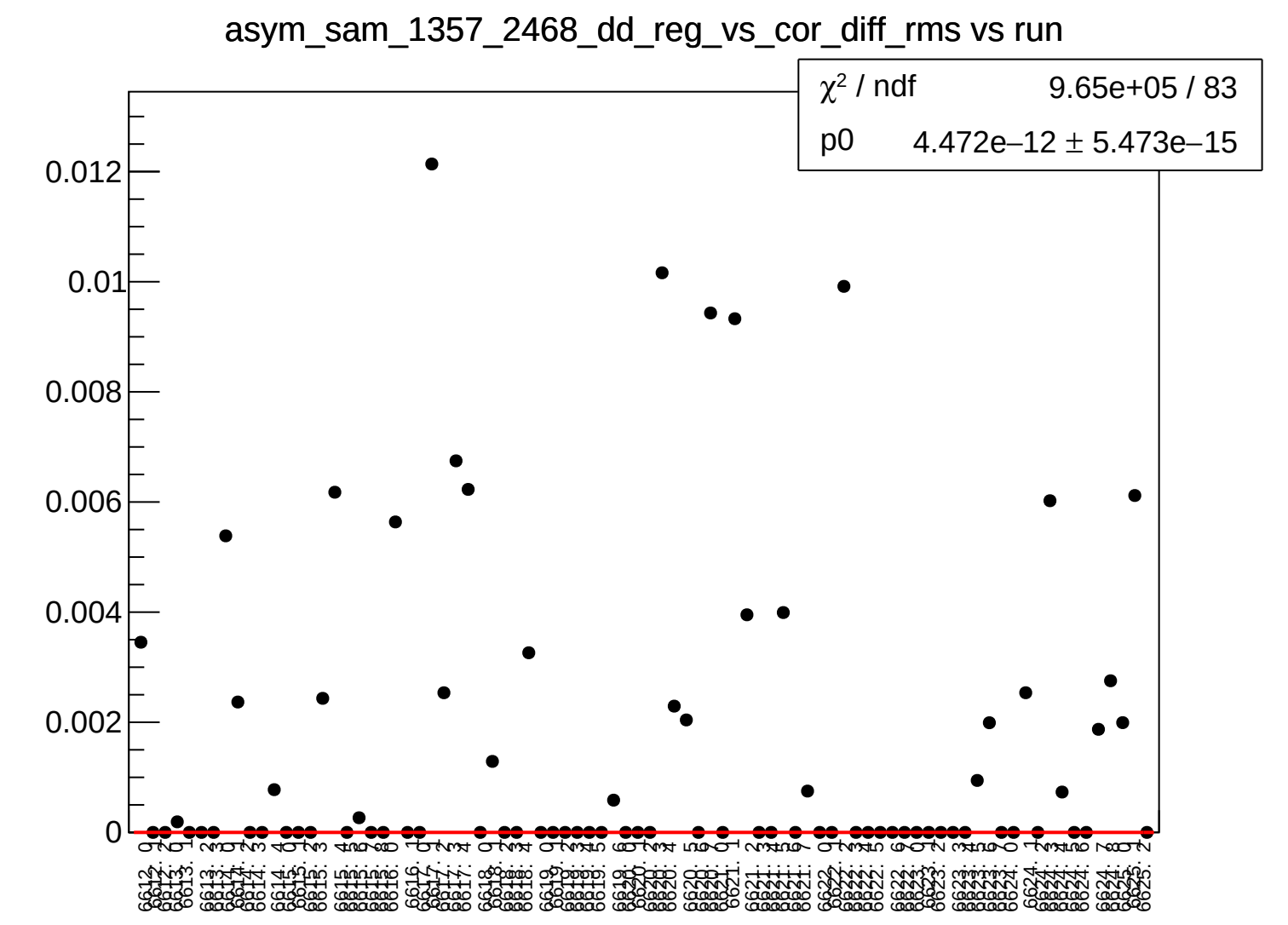

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 77.55 / 83
p0 −405.8 ± 189.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 208.6
Std Dev 0
3
2
1
0
−1
−2

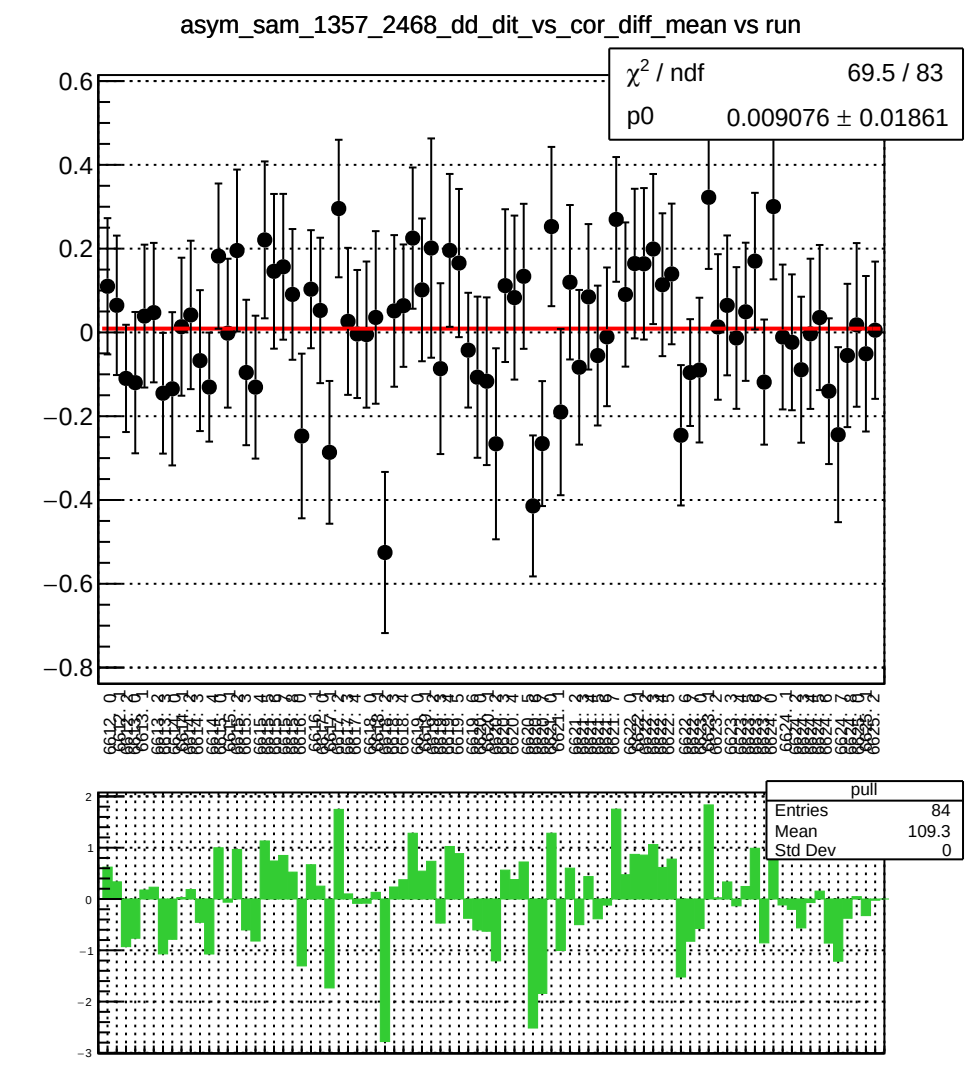

pull1D
Entries 84
Mean 0.0108
Std Dev 0.9608
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

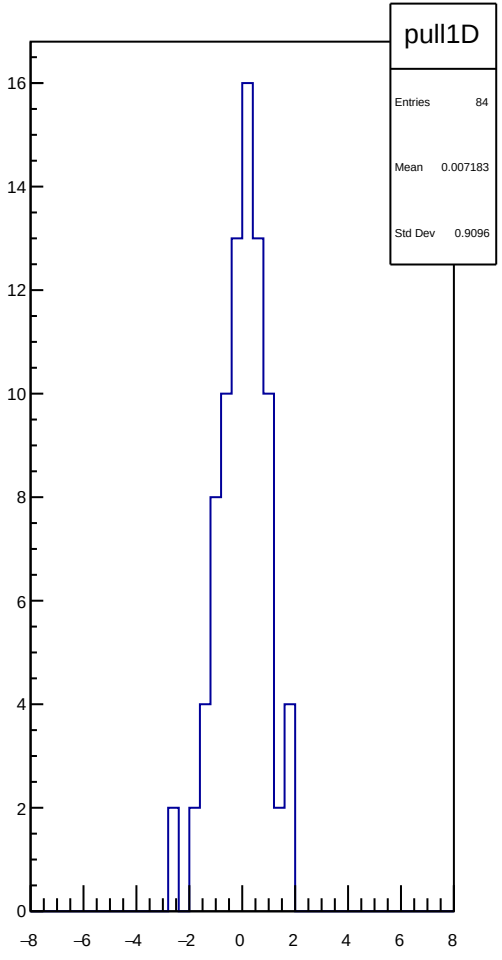

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.61e+04 / 83
p0 170.3 ± 0.134
230
220
210
200
190
180
170
160
150
140

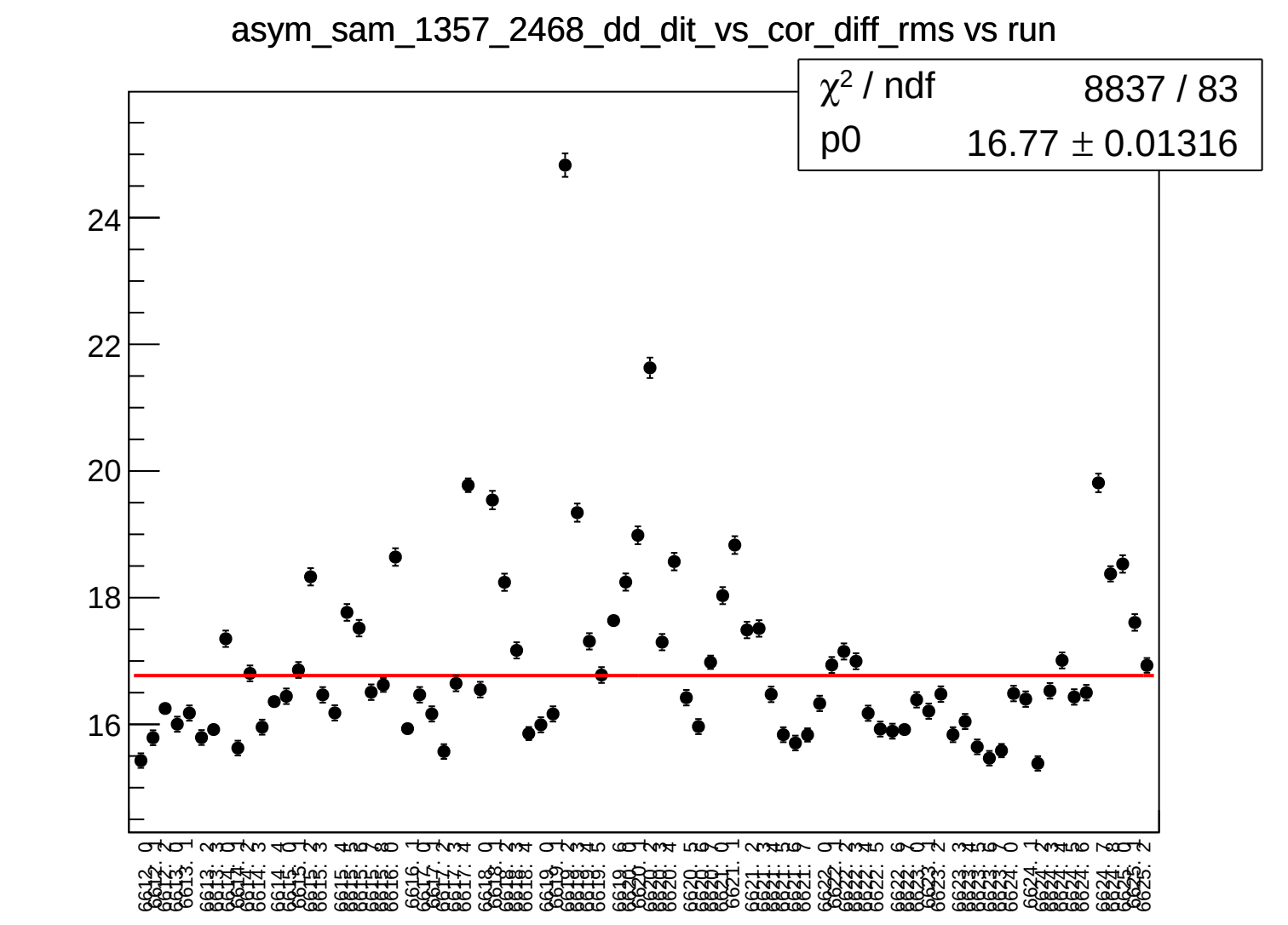

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 72.35 / 83
p0 −6.804e−15 ± 7.741e−15
pull
Entries 84
Mean 131.3
Std Dev 0

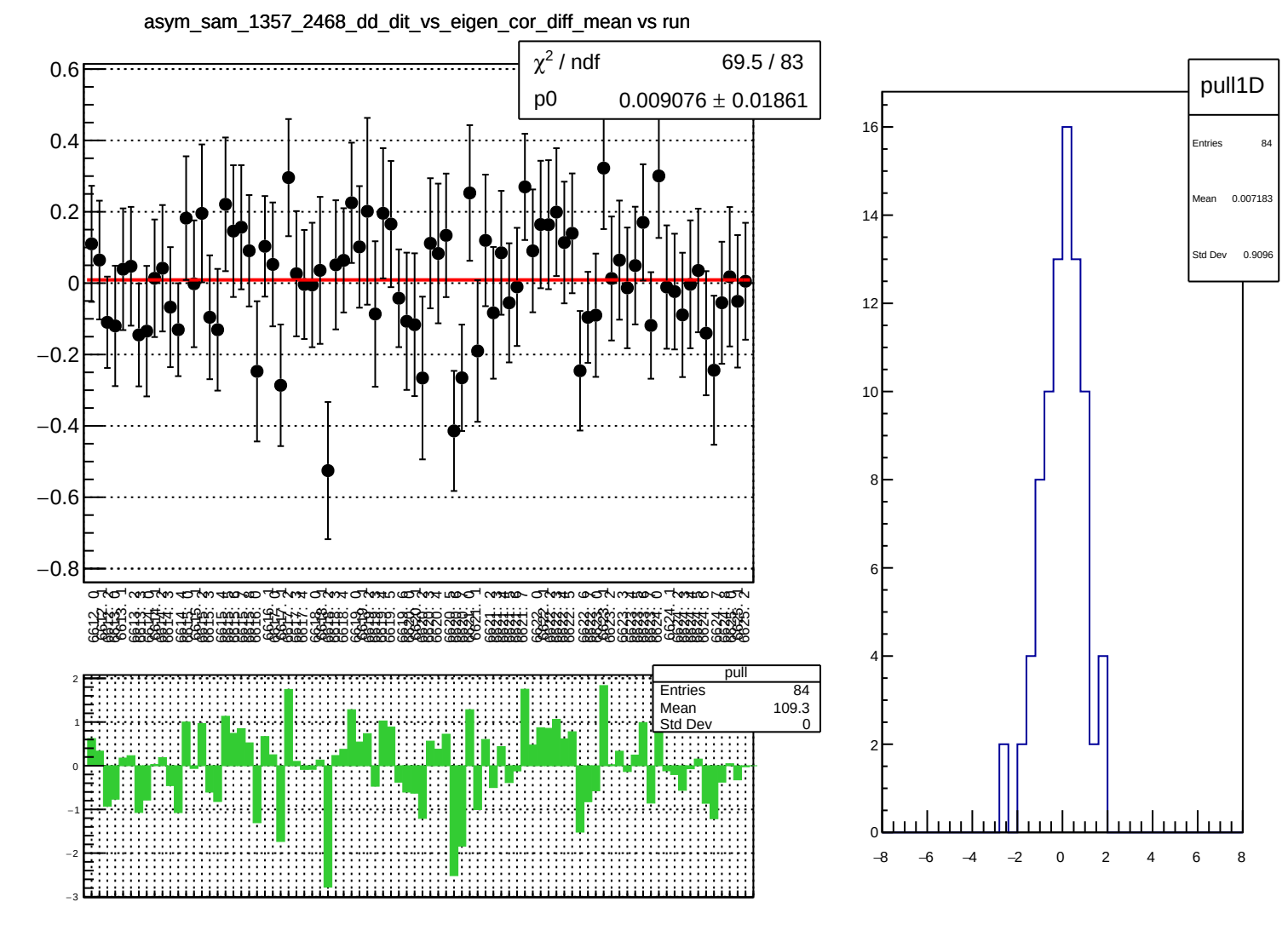

pull1D
Entries 84
Mean 0.02497
Std Dev 0.9277

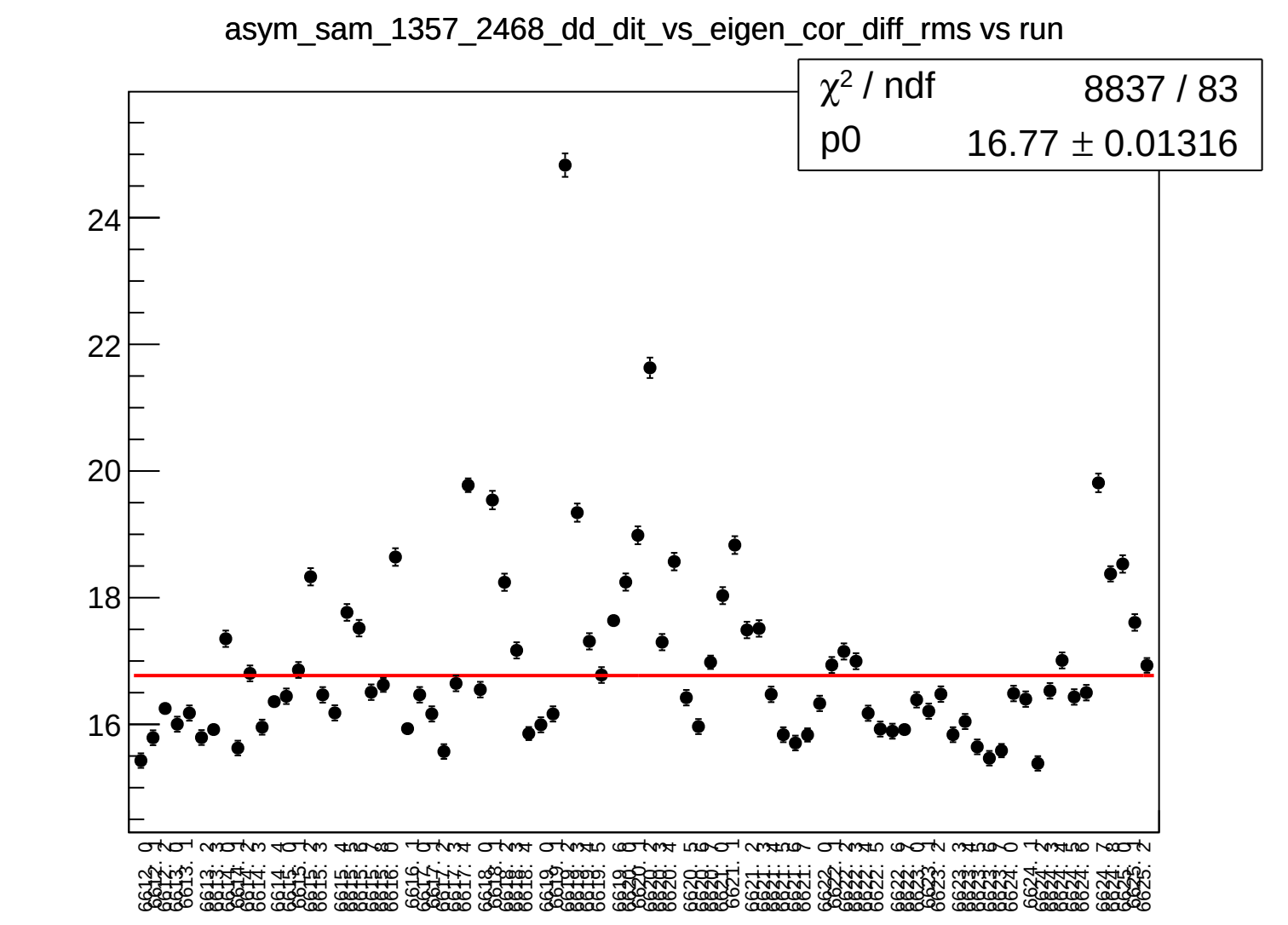

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.65e+05 / 83
p0 4.472e−12 ± 5.473e−15
0.012
0.01
0.008
0.006
0.004
0.002
0

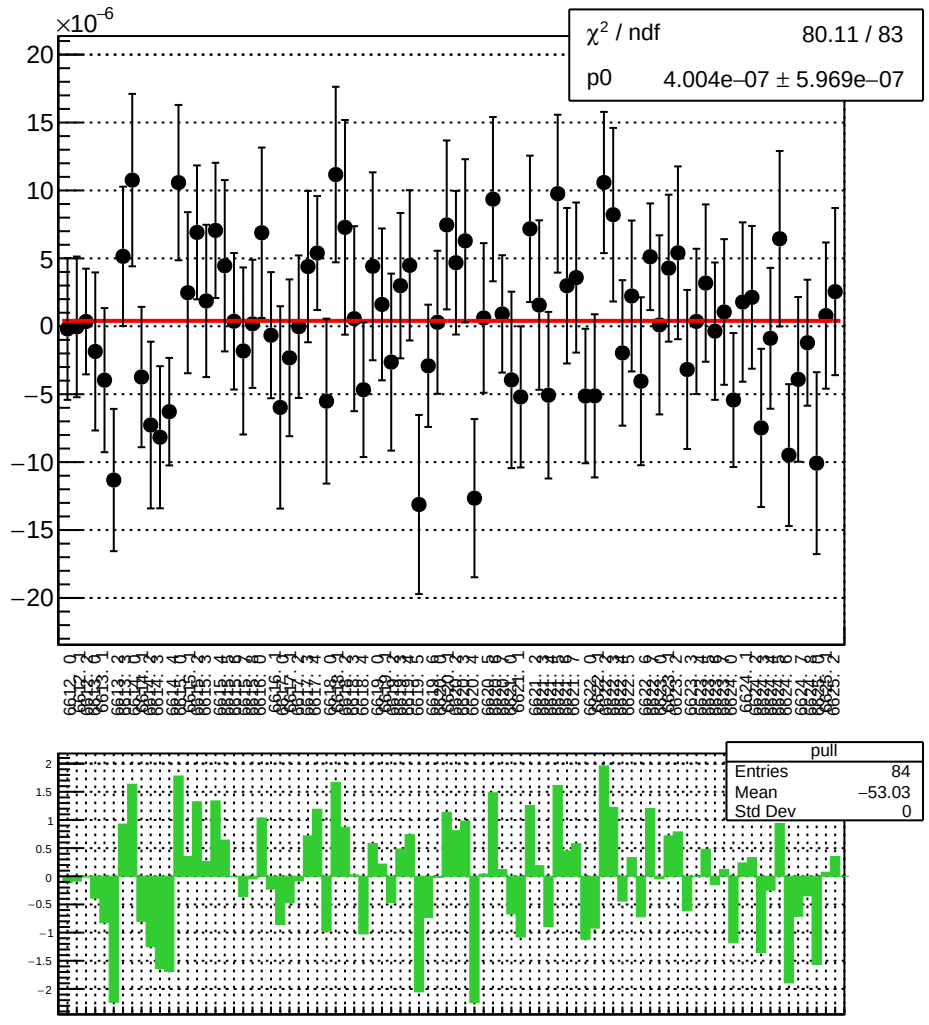

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.5 / 83
p0 0.009076 ± 0.01861
pull
Entries 84
Mean 109.3
Std Dev 0

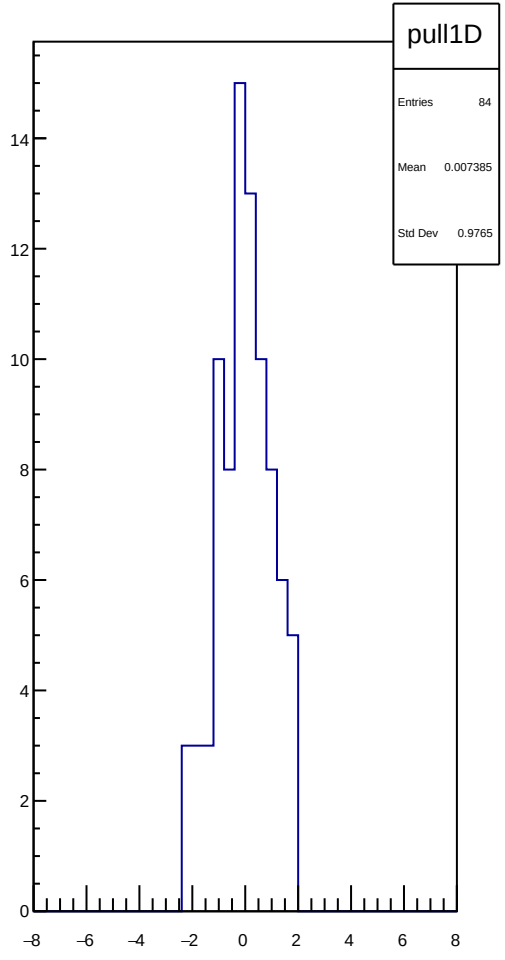

pull1D
Entries 84
Mean 0.007183
Std Dev 0.9096

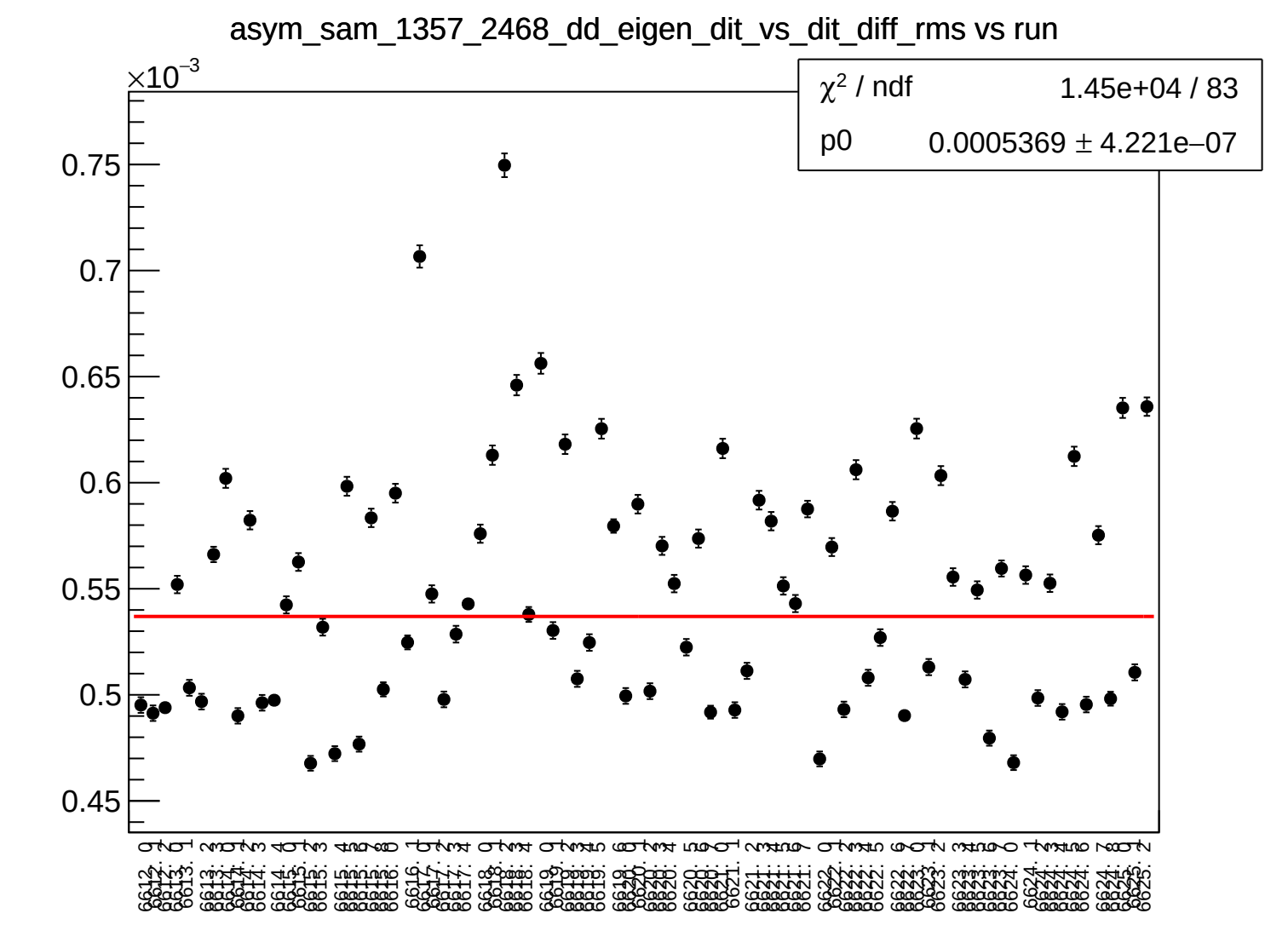

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8837 / 83
p0 16.77 ± 0.01316
24
22
20
18
16

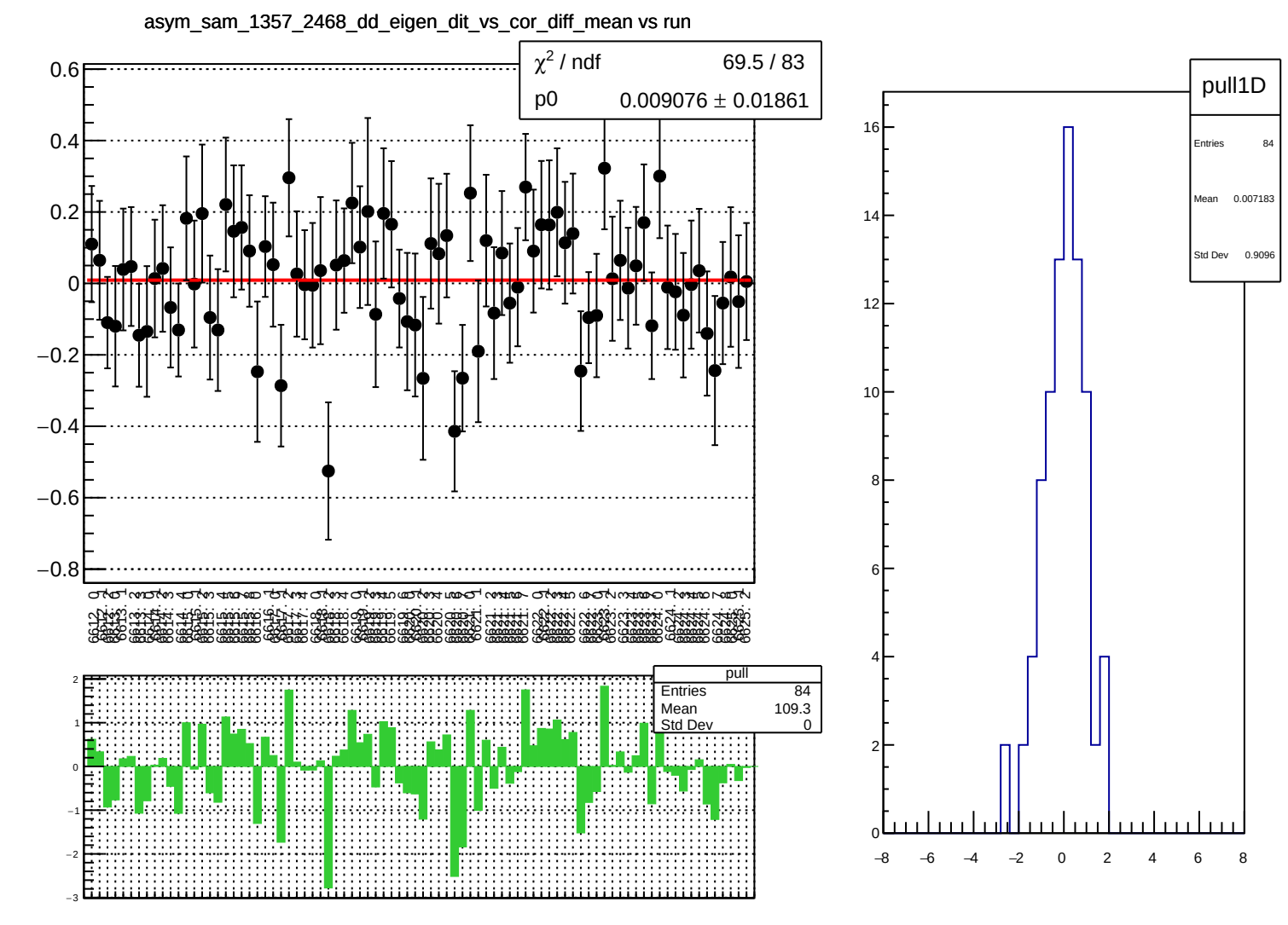

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.5 / 83
p0 0.009076 ± 0.01861
pull
Entries 84
Mean 109.3
Std Dev 0
pull1D
Entries 84
Mean 0.007183
Std Dev 0.9096

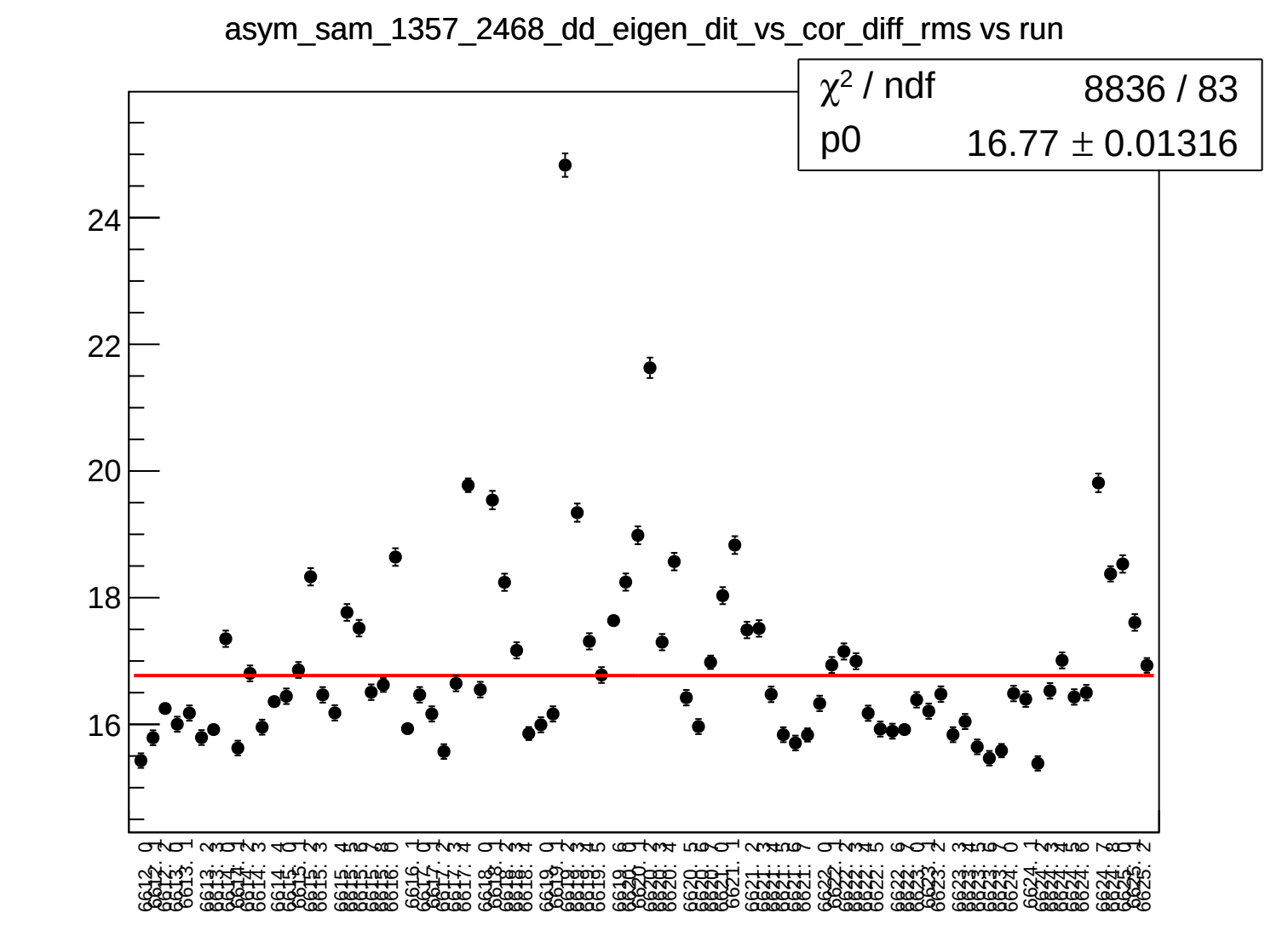

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8837 / 83
p0 16.77 ± 0.01316
24
22
20
18
16

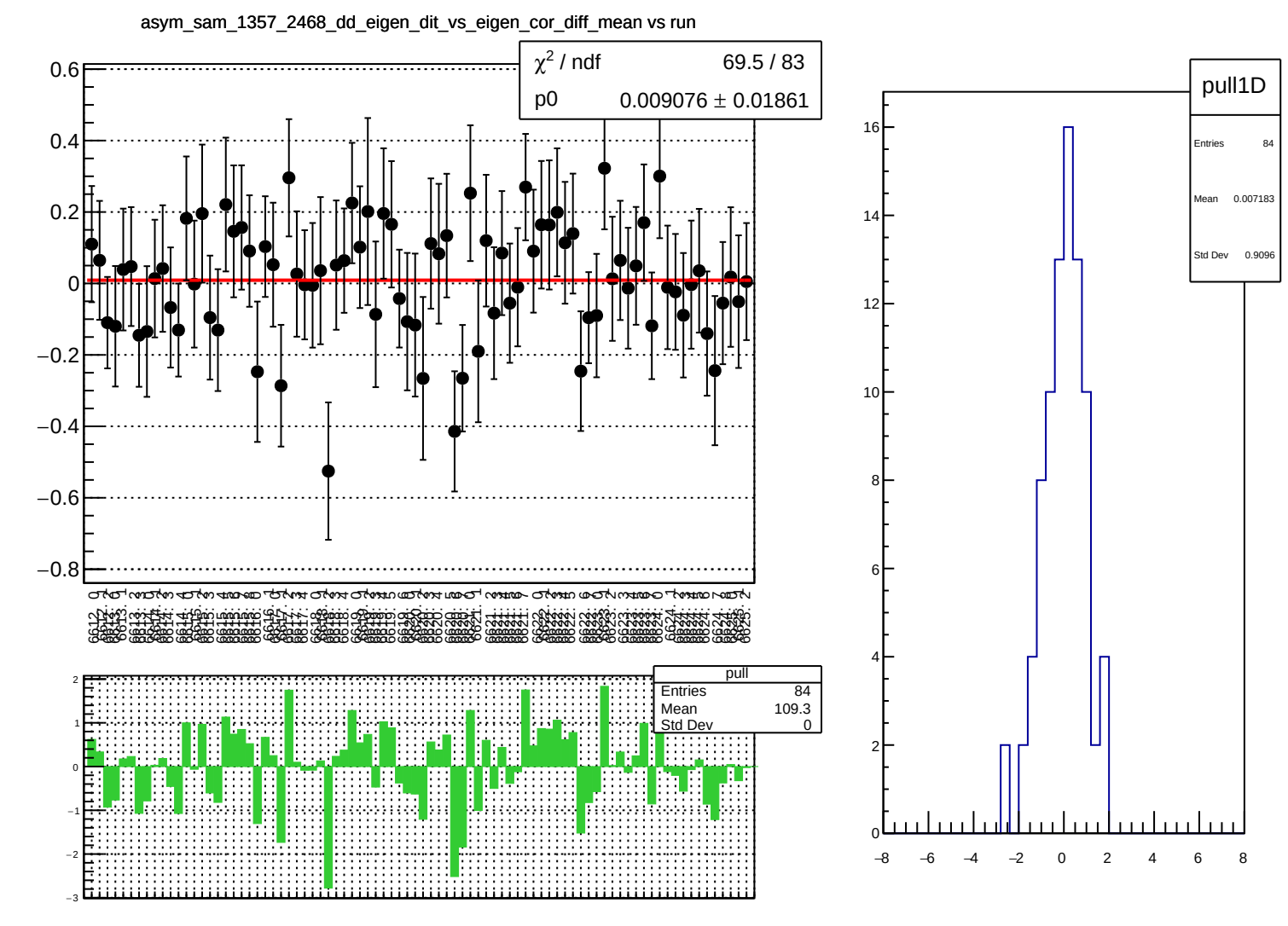

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 80.11 / 83
p0 4.004e−07 ± 5.969e−07
pull
Entries 84
Mean −53.03
Std Dev 0

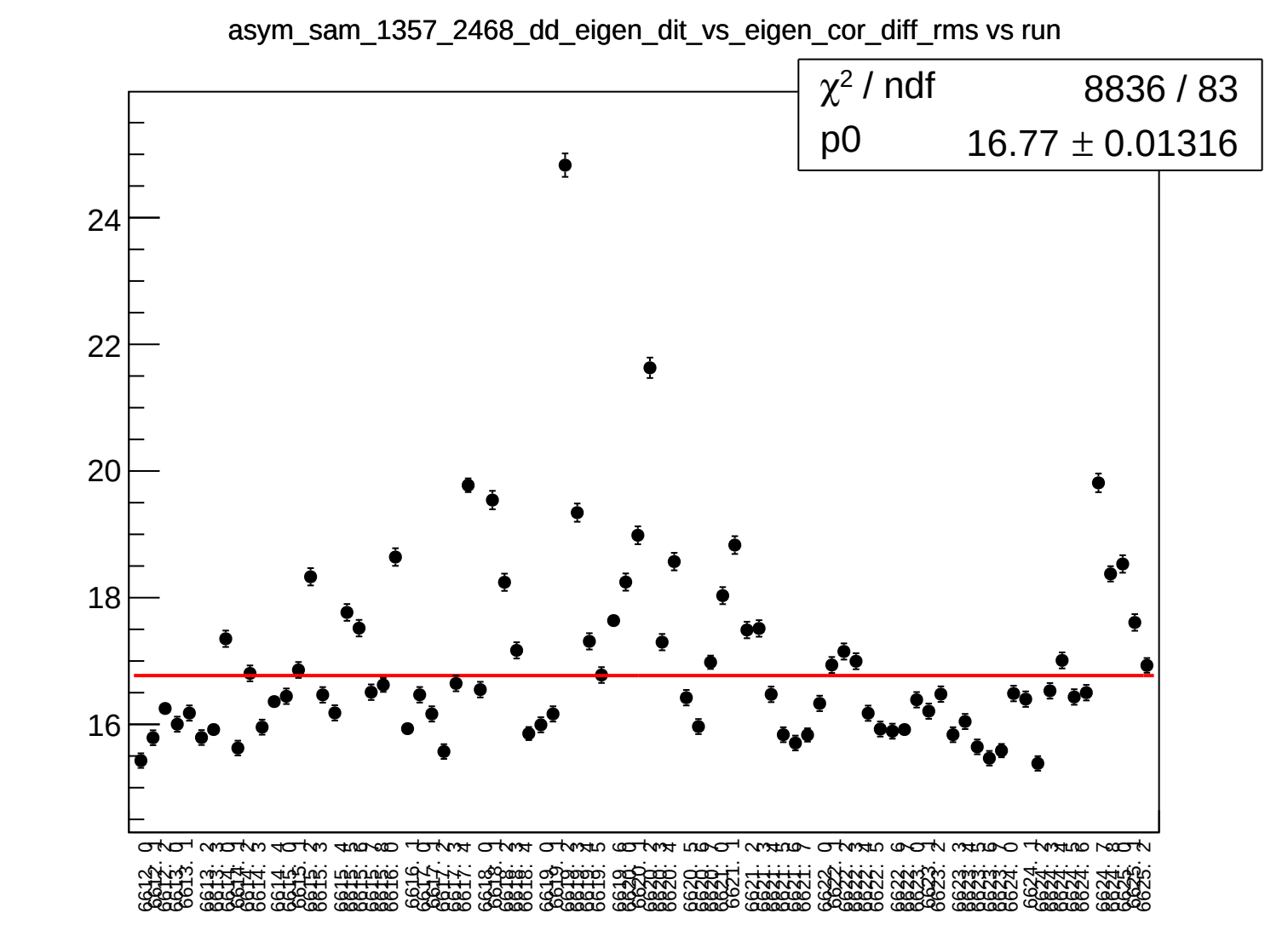

pull1D
Entries 84
Mean 0.007385
Std Dev 0.9765

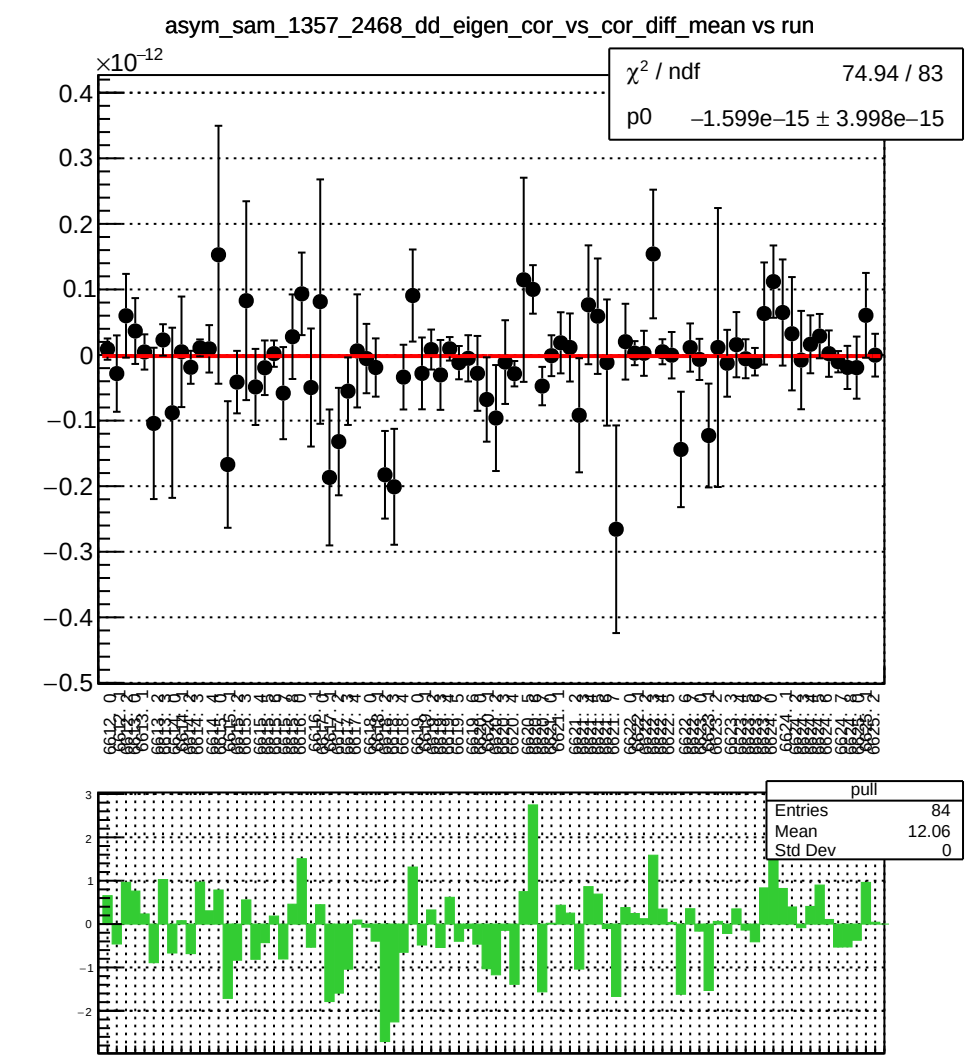

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1.45e+04 / 83
p0 0.0005369 ± 4.221e−07
0.75
0.7
0.65
0.6
0.55
0.5
0.45

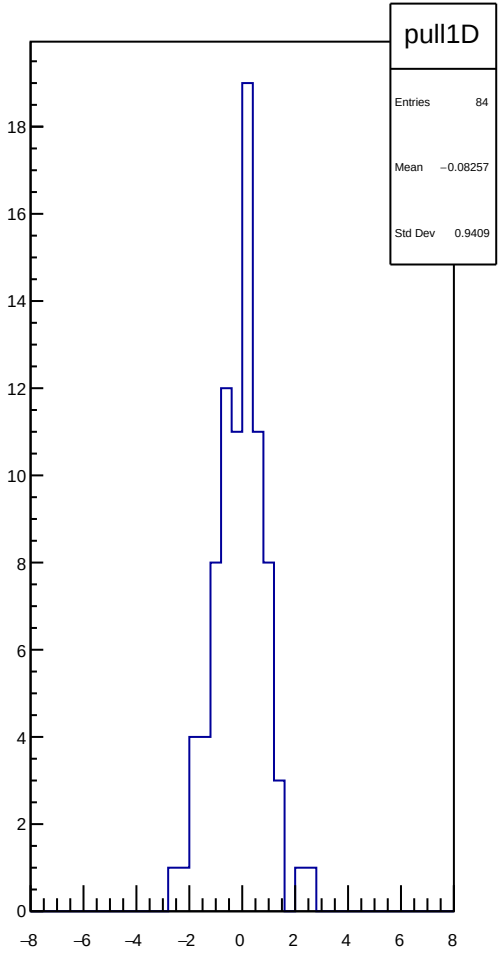

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.5 / 83
p0 0.009076 ± 0.01861
pull
Entries 84
Mean 109.3
Std Dev 0
pull1D
Entries 84
Mean 0.007183
Std Dev 0.9096

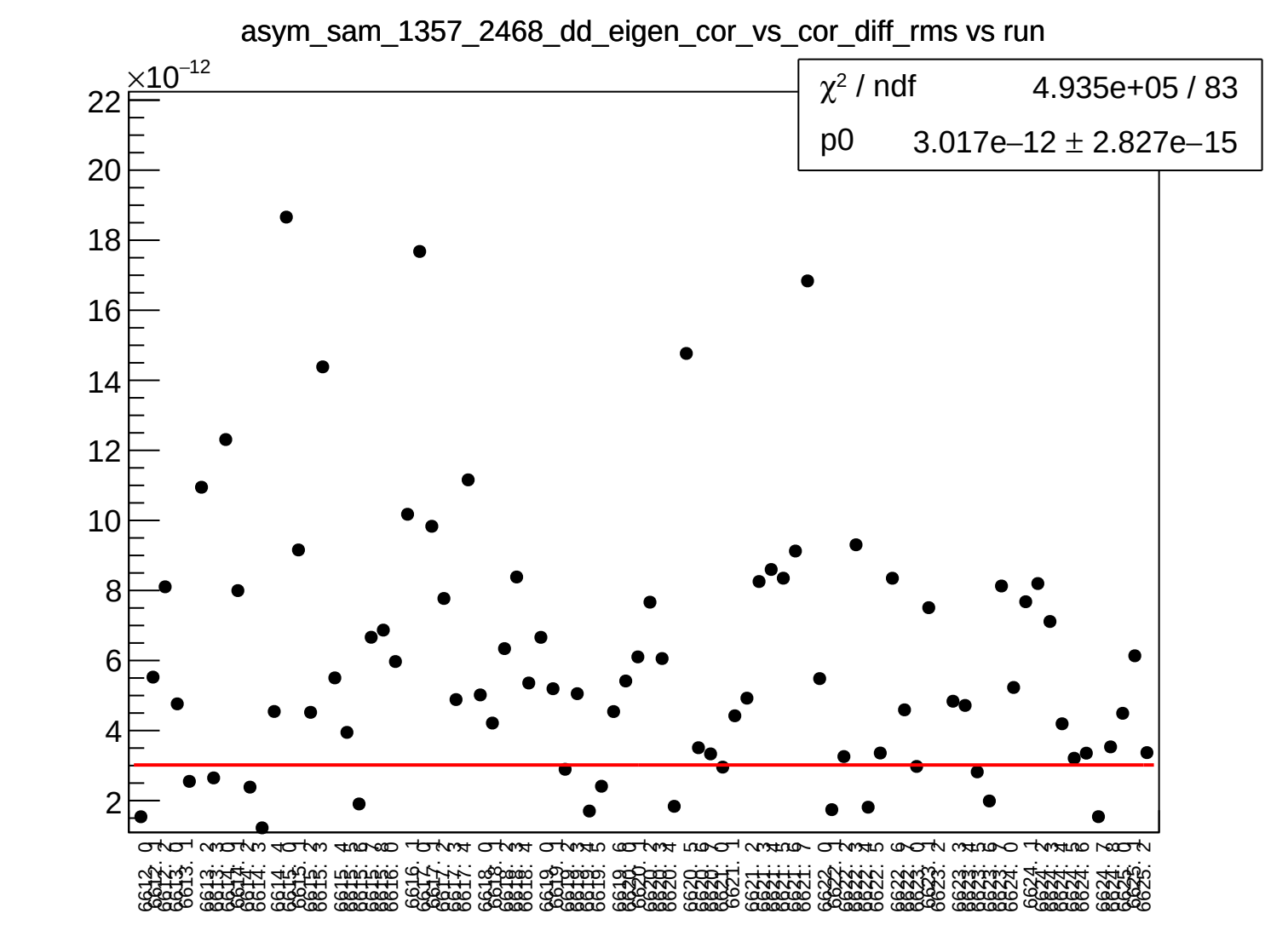

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8836 / 83
p0 16.77 ± 0.01316
24
22
20
18
16

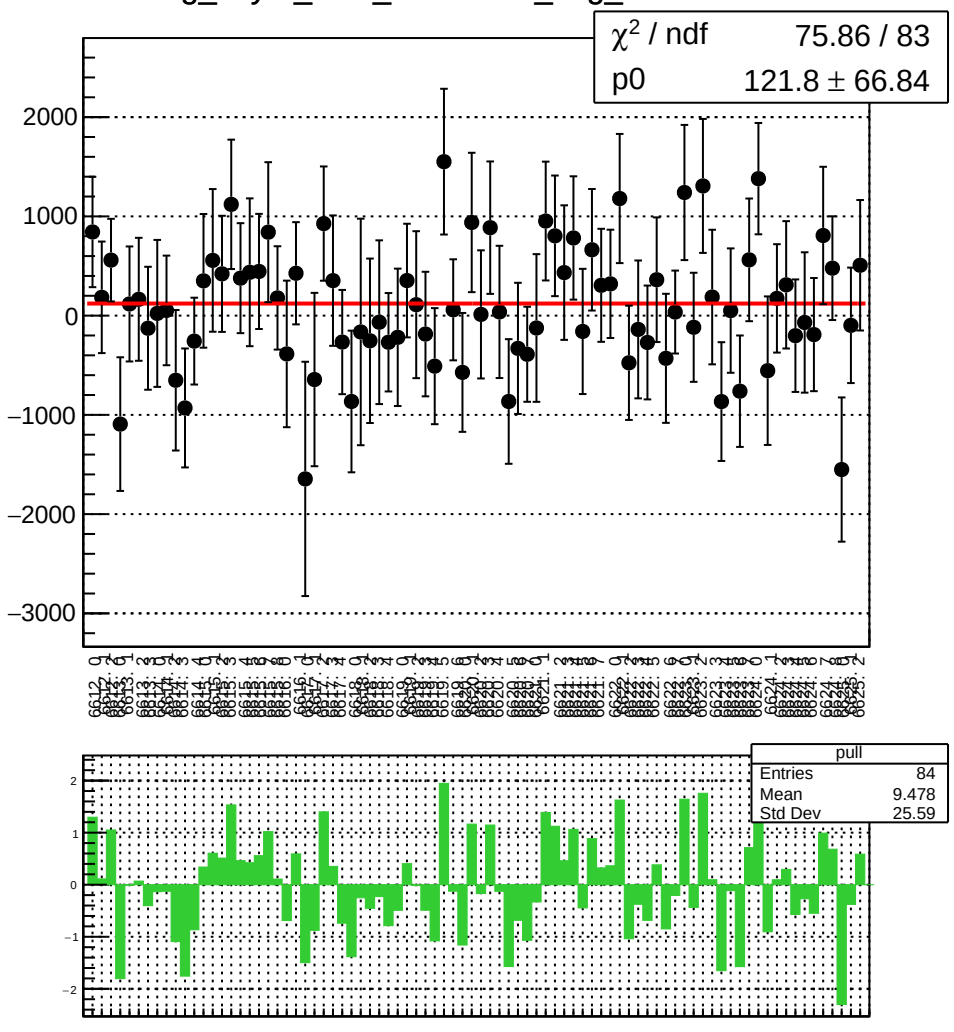

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.5 / 83
p0 0.009076 ± 0.01861
pull
Entries 84
Mean 109.3
Std Dev 0
pull1D
Entries 84
Mean 0.007183
Std Dev 0.9096

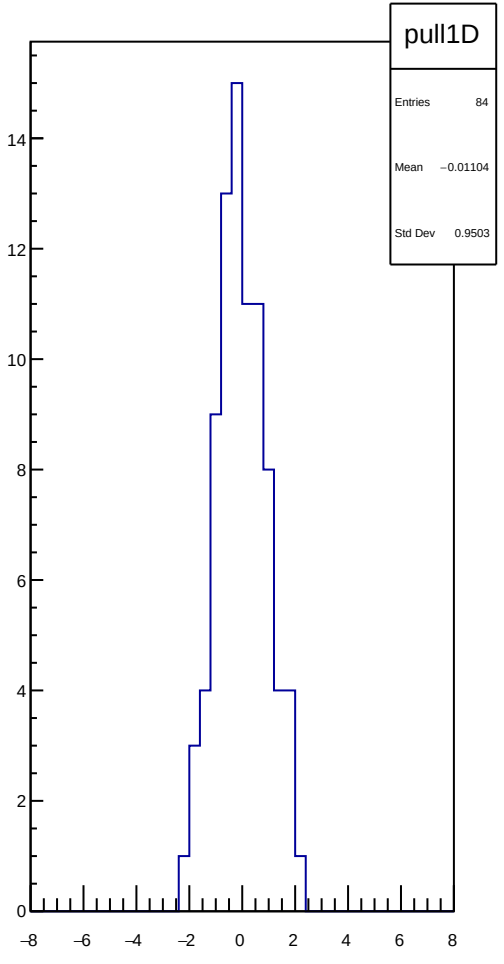

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8836 / 83
p0 16.77 ± 0.01316
24
22
20
18
16

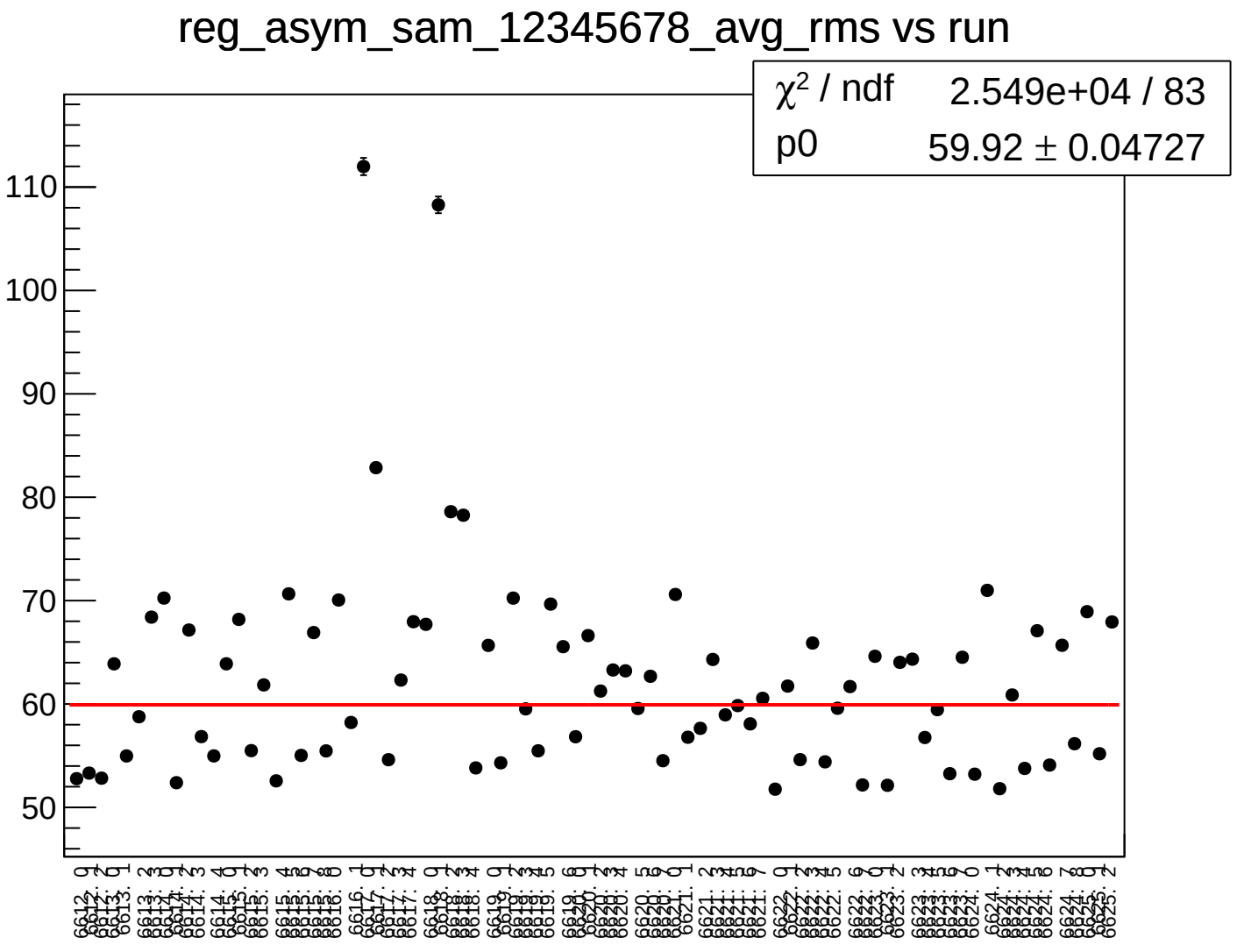

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.94 / 83
p0 −1.599e−15 ± 3.998e−15
pull
Entries 84
Mean 12.06
Std Dev 0

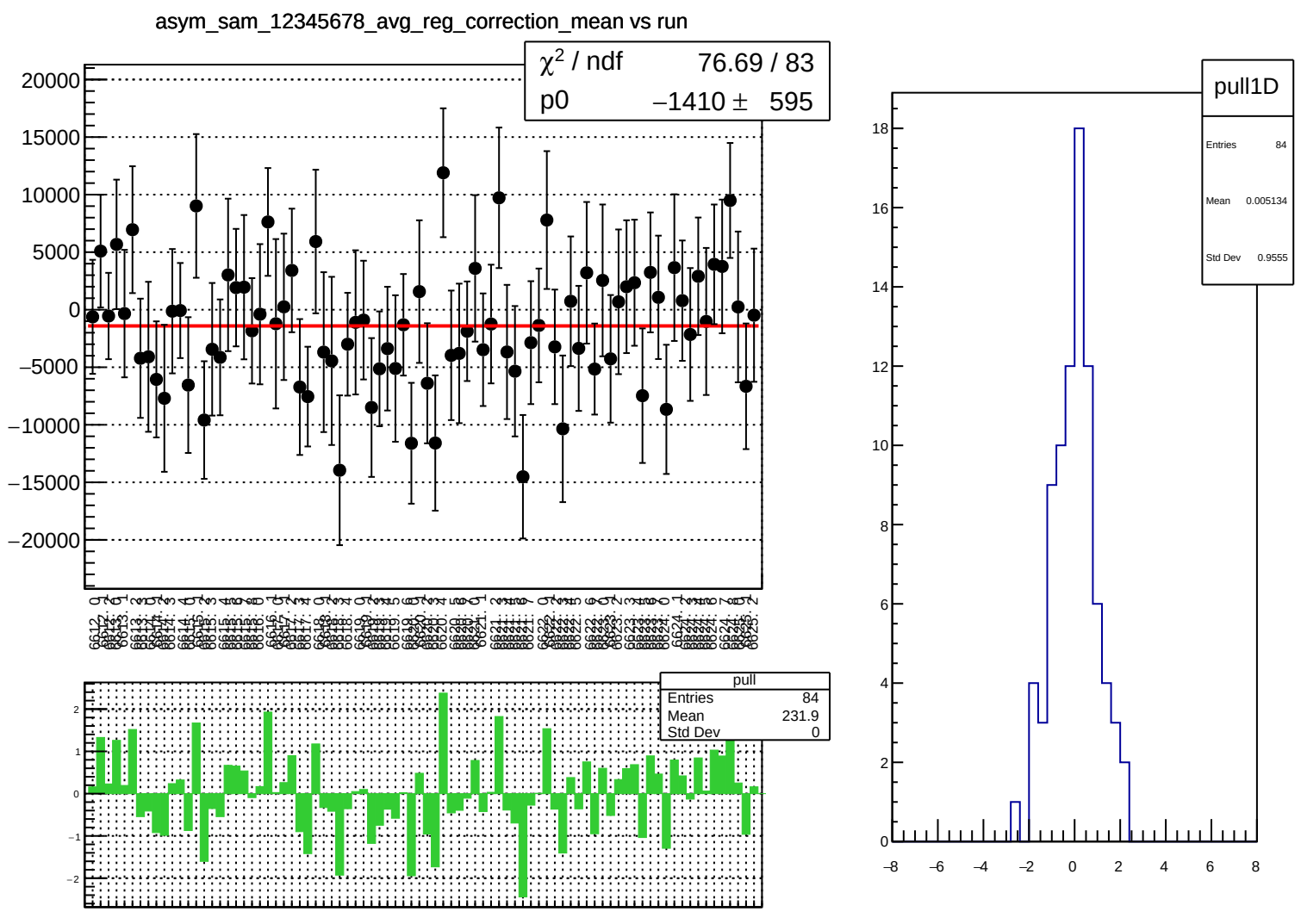

pull1D
Entries 84
Mean −0.08257
Std Dev 0.9409

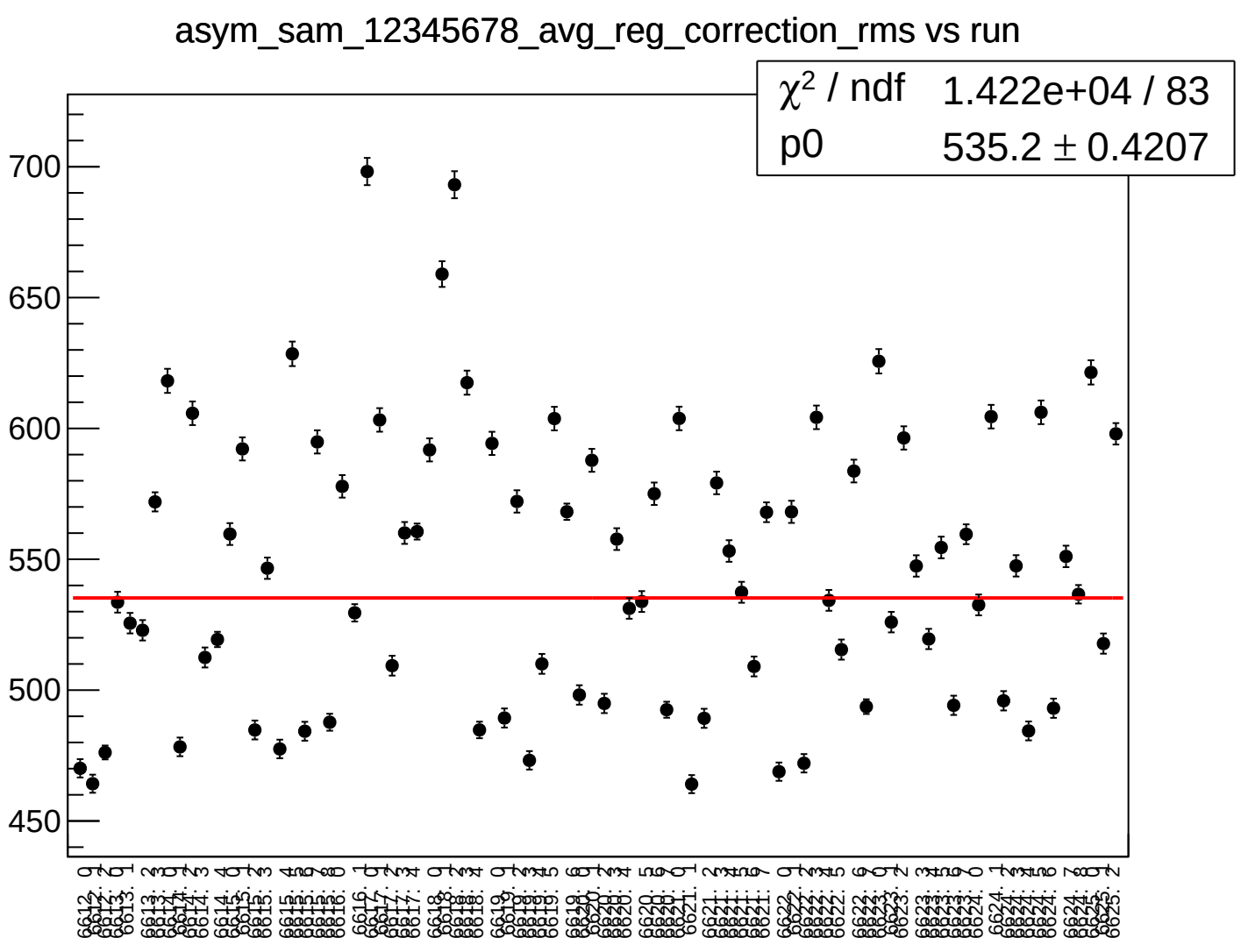

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.935e+05 / 83
p0 3.017e−12 ± 2.827e−15
22
20
18
16
14
12
10
8
6
4
2

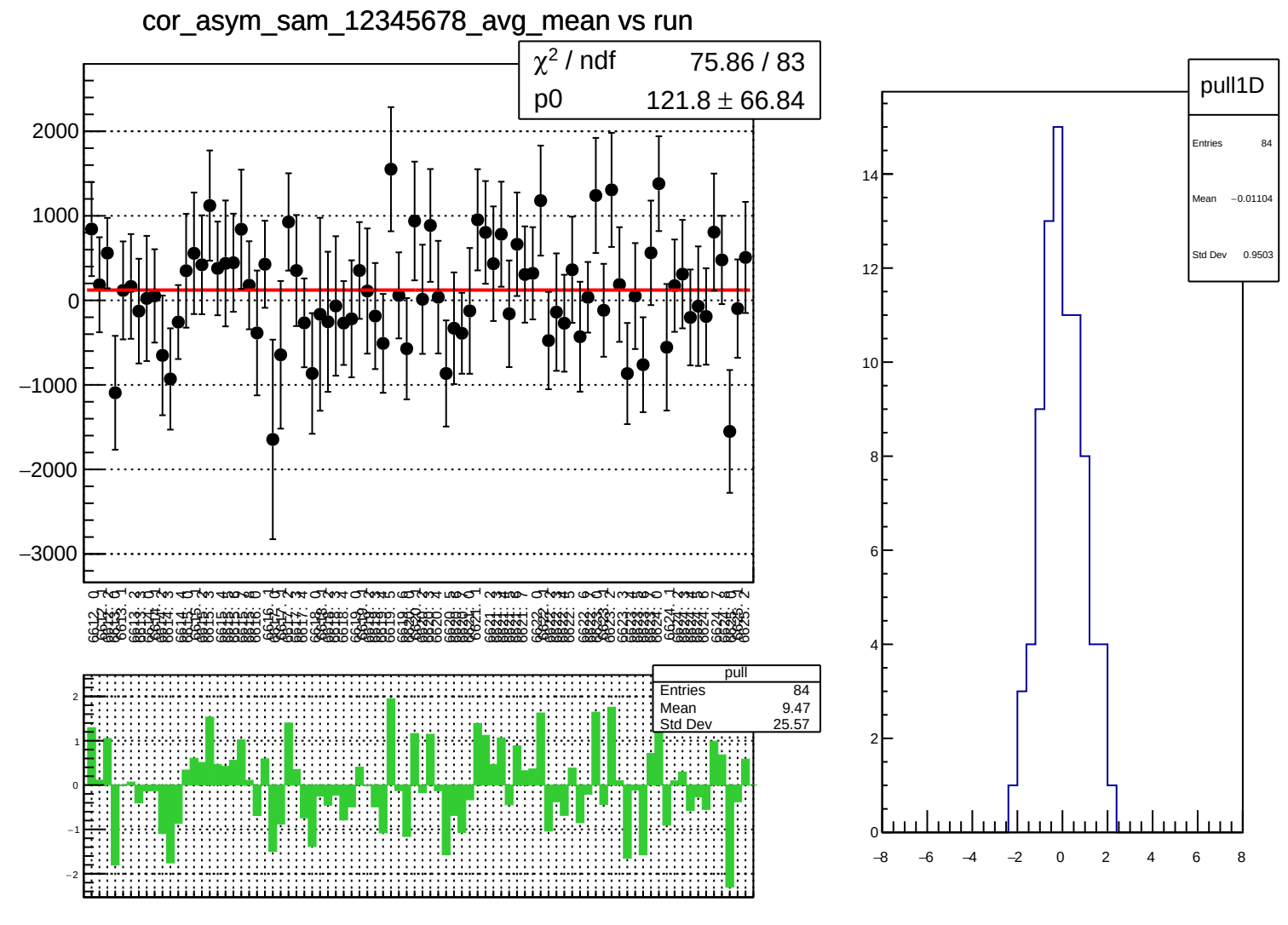

reg_asym_sam_12345678_avg_mean vs run
χ^2 / ndf 75.86 / 83
p0 121.8 ± 66.84
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 9.478
Std Dev 25.59
2
1
0
−1
−2

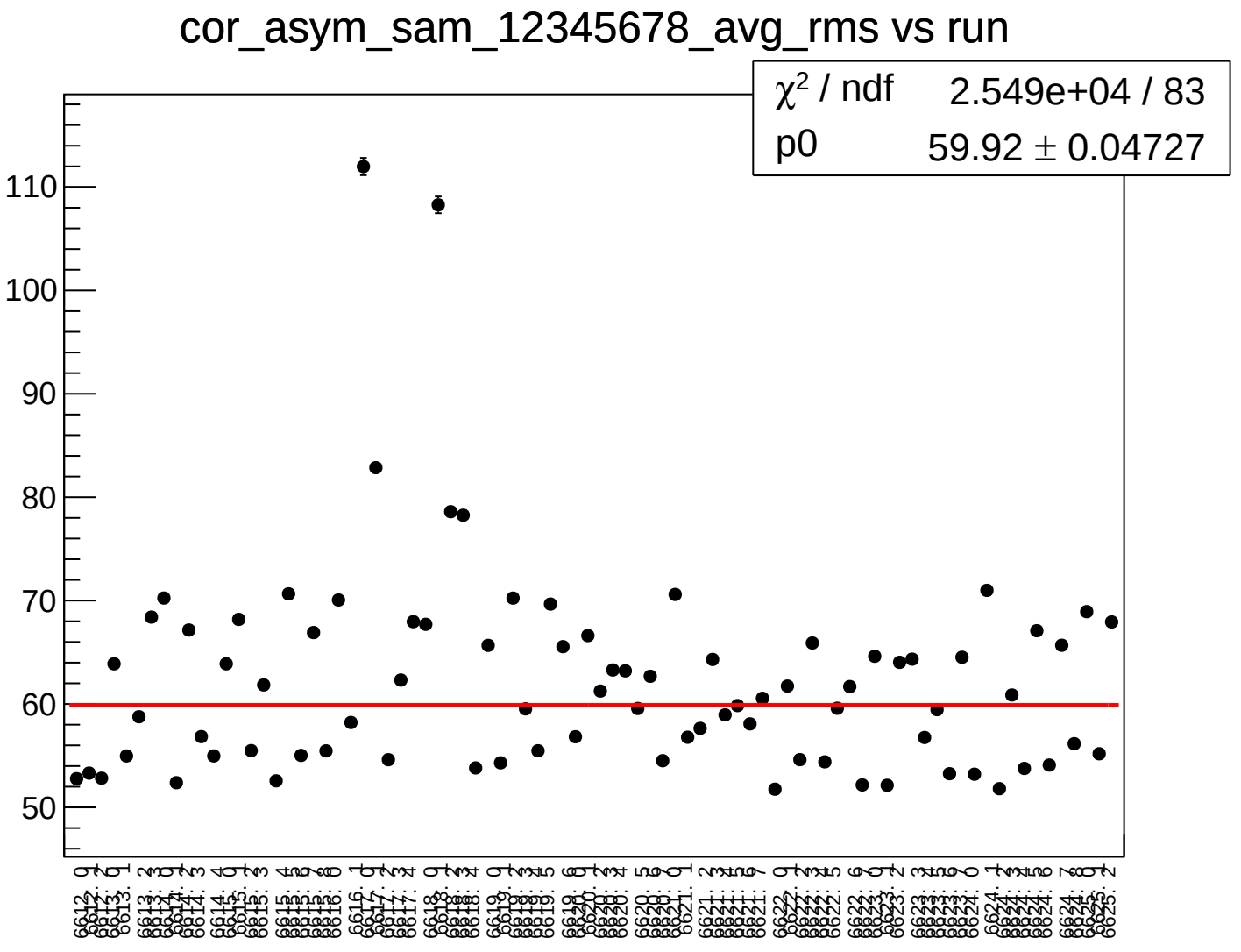

pull1D
Entries 84
Mean −0.01104
Std Dev 0.9503
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

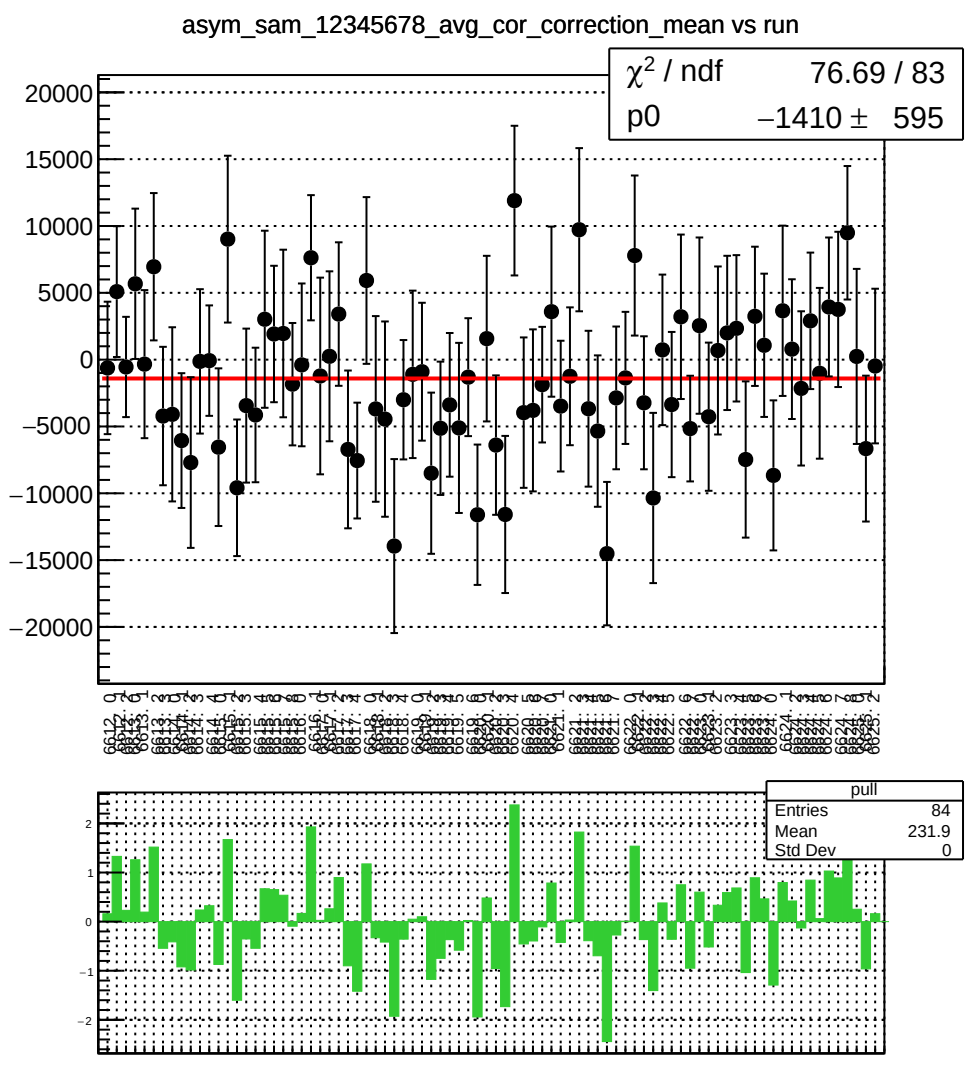

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 2.549e+04 / 83
p0 59.92 ± 0.04727
110
100
90
80
70
60
50

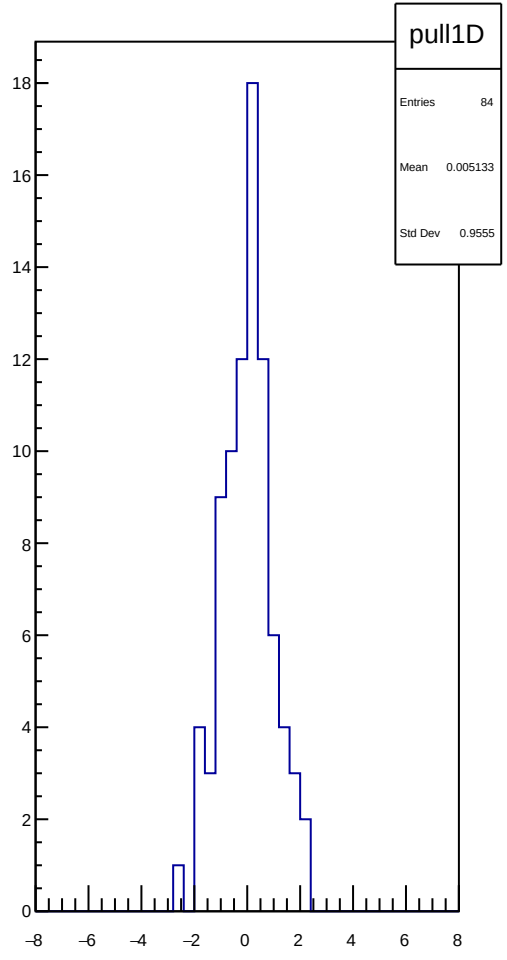

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 76.69 / 83
p0 −1410 ± 595
pull
Entries 84
Mean 231.9
Std Dev 0
pull1D
Entries 84
Mean 0.005134
Std Dev 0.9555

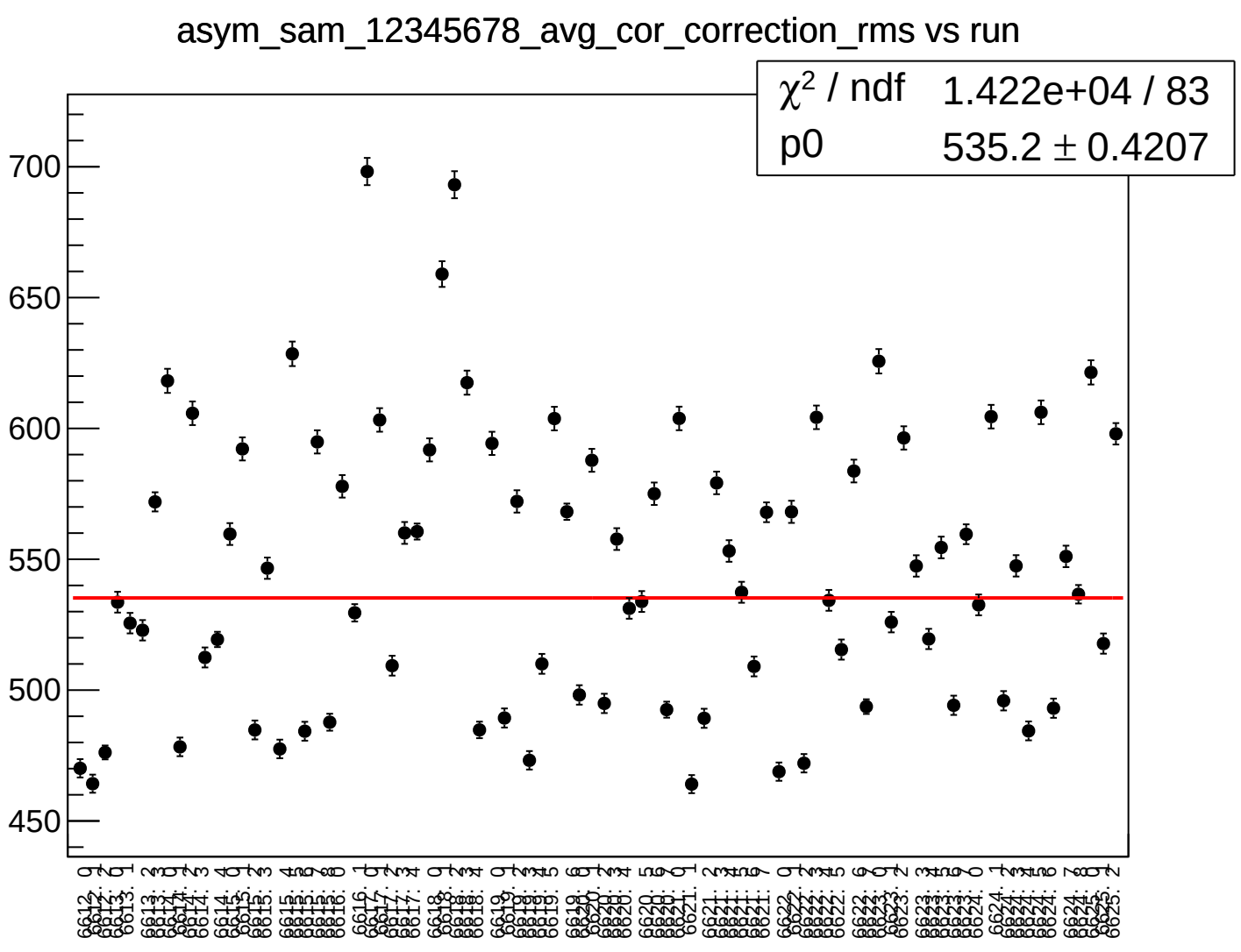

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1.422e+04 / 83
p0 535.2 ± 0.4207
700
650
600
550
500
450

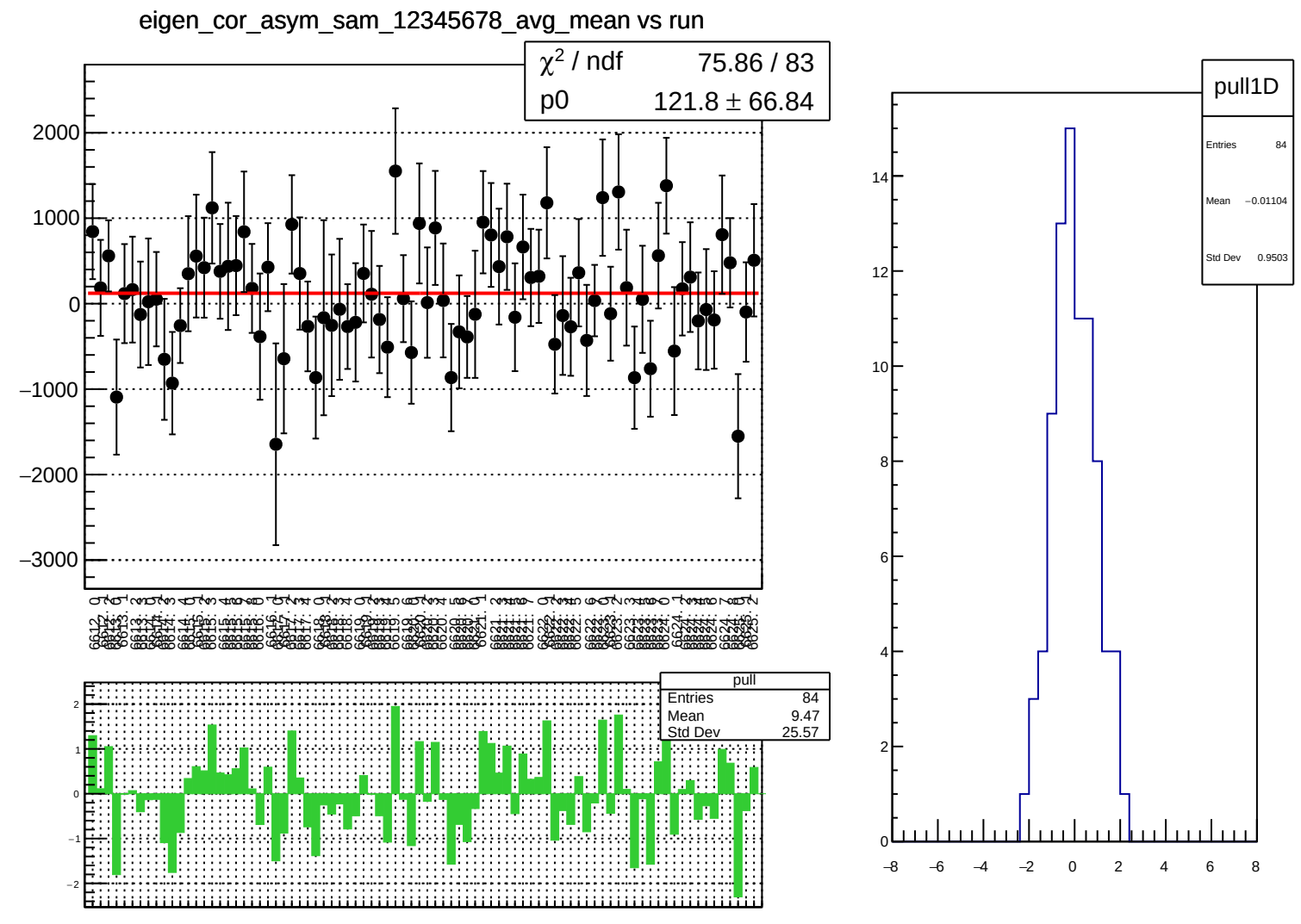

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 75.86 / 83
p0 121.8 ± 66.84
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 9.47
Std Dev 25.57
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01104
Std Dev 0.9503
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

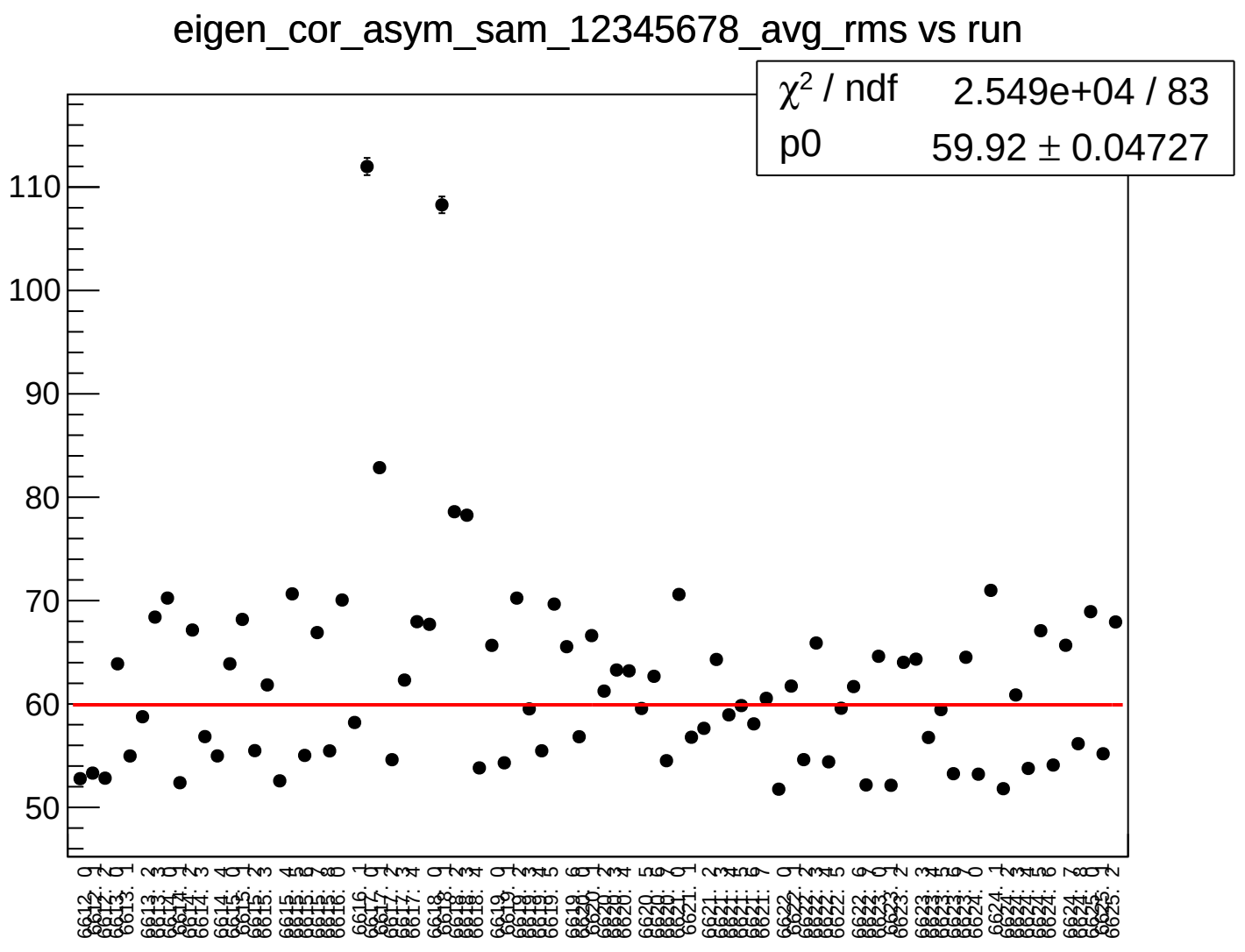

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.549e+04 / 83
p0 59.92 ± 0.04727
110
100
90
80
70
60
50

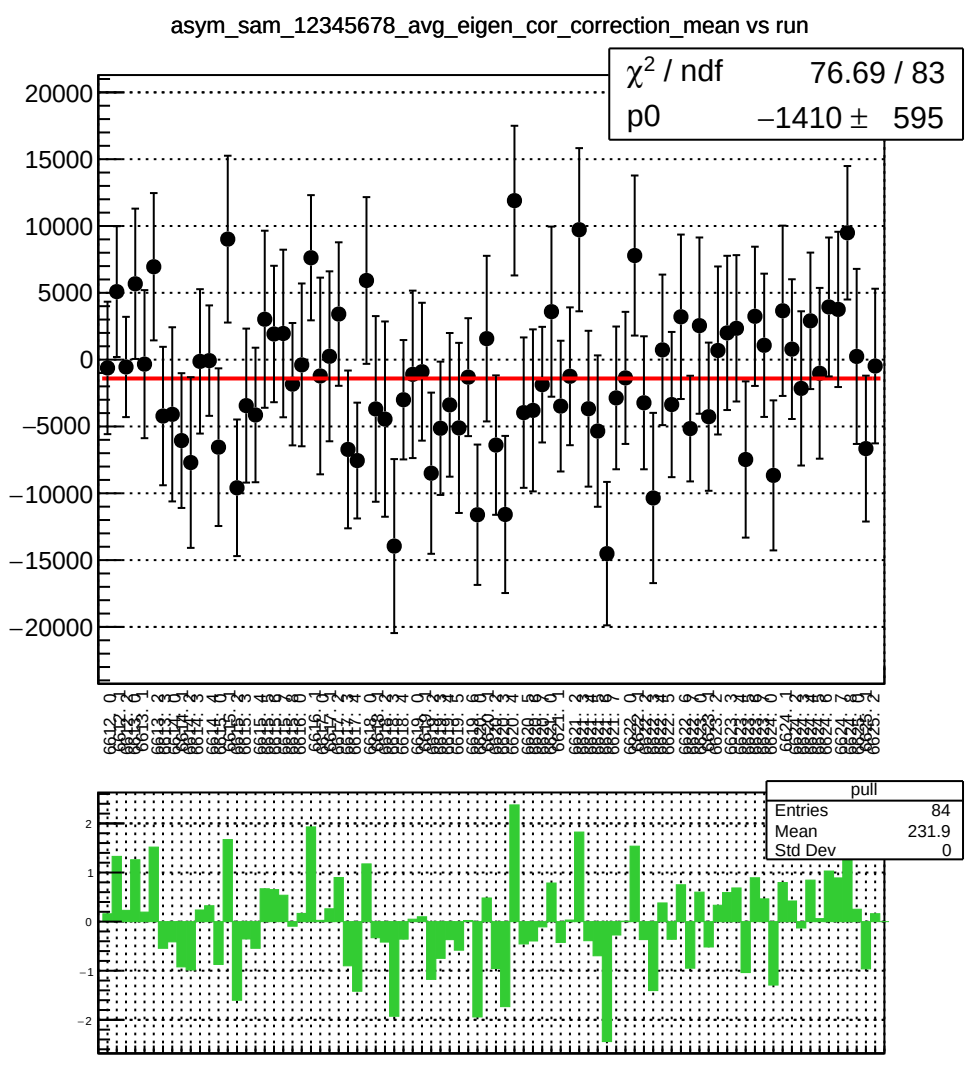

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 76.69 / 83
p0 −1410 ± 595
pull
Entries 84
Mean 231.9
Std Dev 0

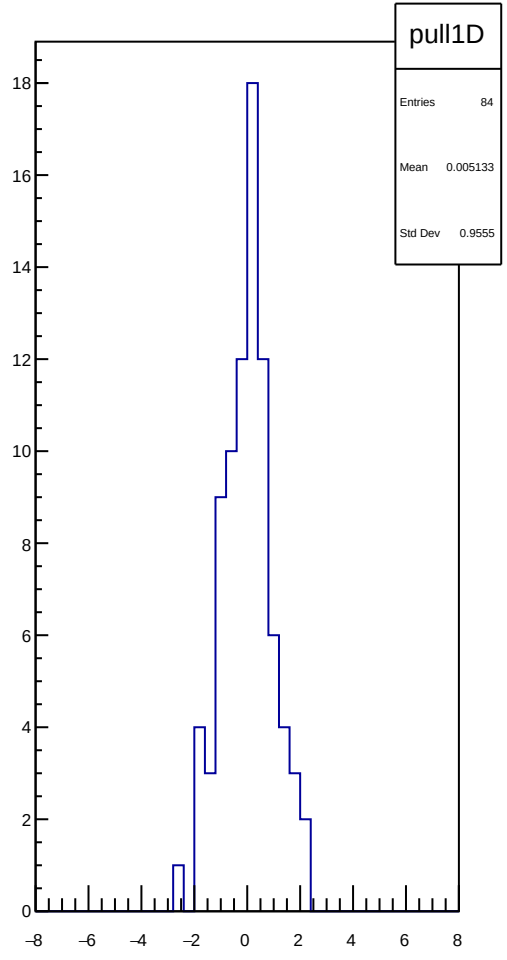

pull1D
Entries 84
Mean 0.005133
Std Dev 0.9555

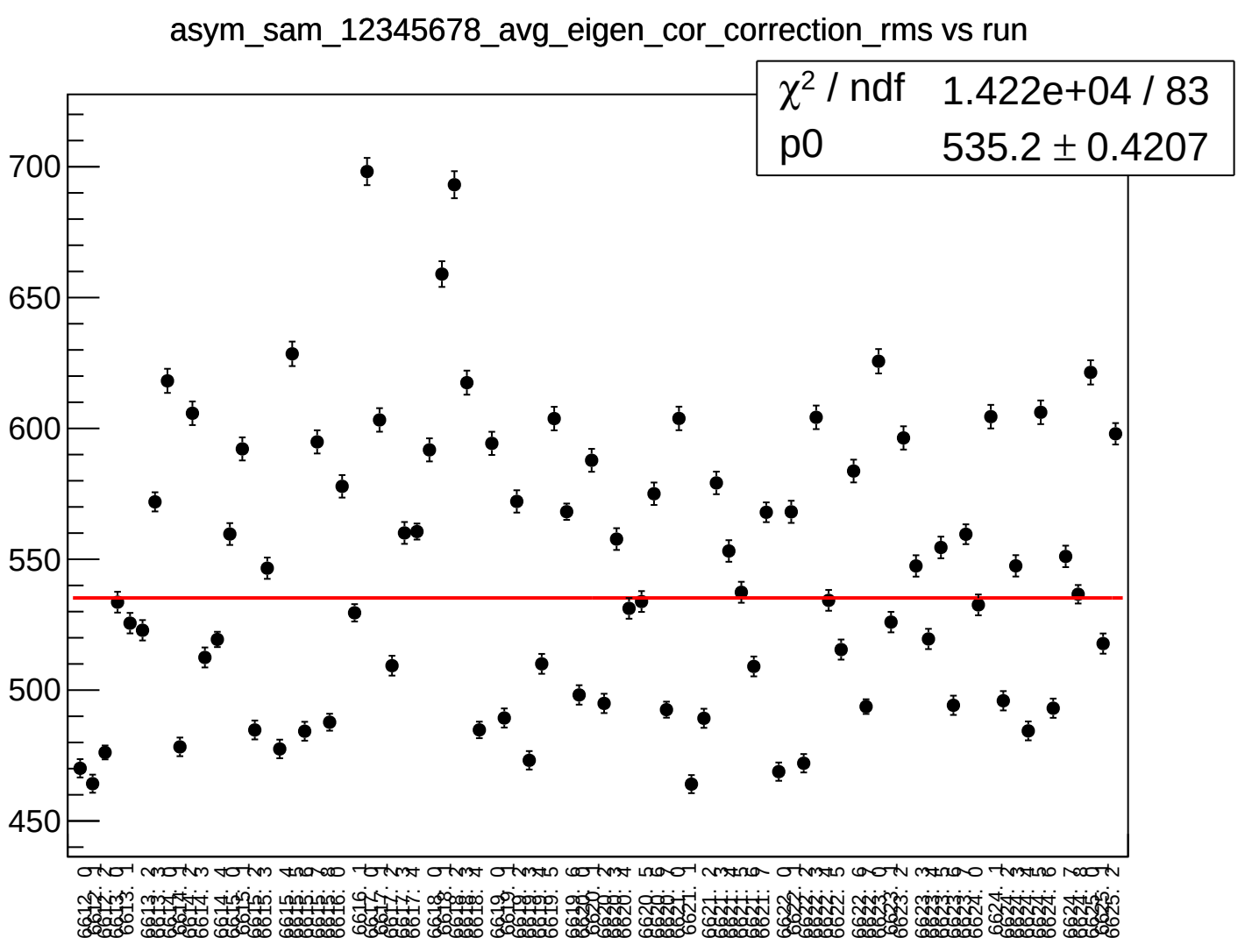

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1.422e+04 / 83
p0 535.2 ± 0.4207
700
650
600
550
500
450

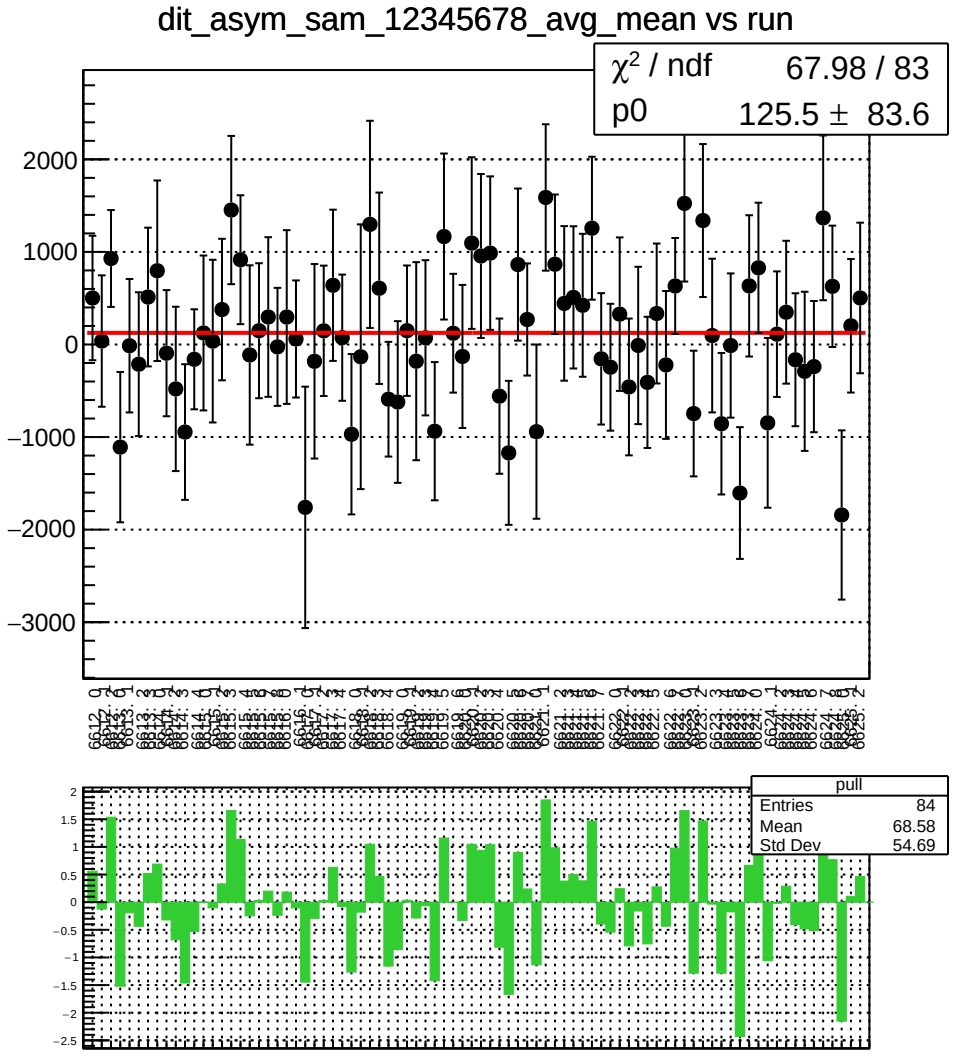

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 75.86 / 83
p0 121.8 ± 66.84
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean 9.47
Std Dev 25.57
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01104
Std Dev 0.9503
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

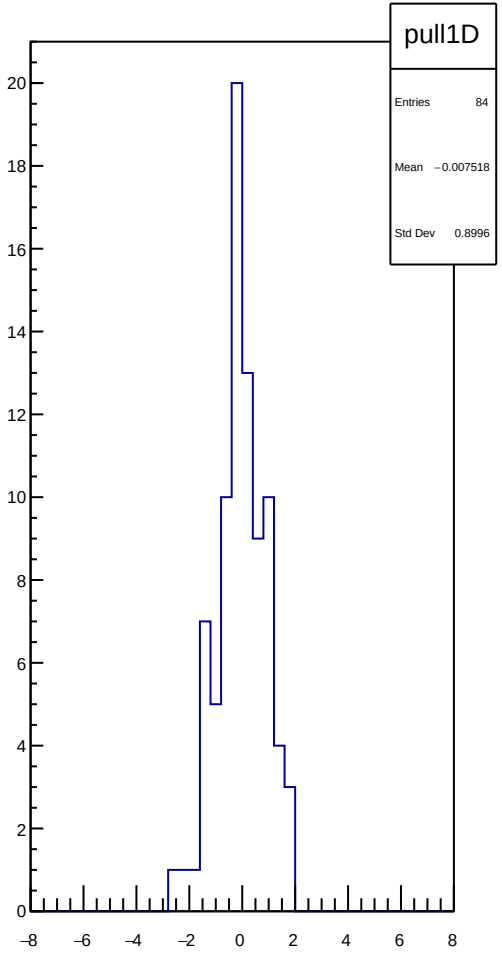

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.549e+04 / 83
p0 59.92 ± 0.04727
110
100
90
80
70
60
50

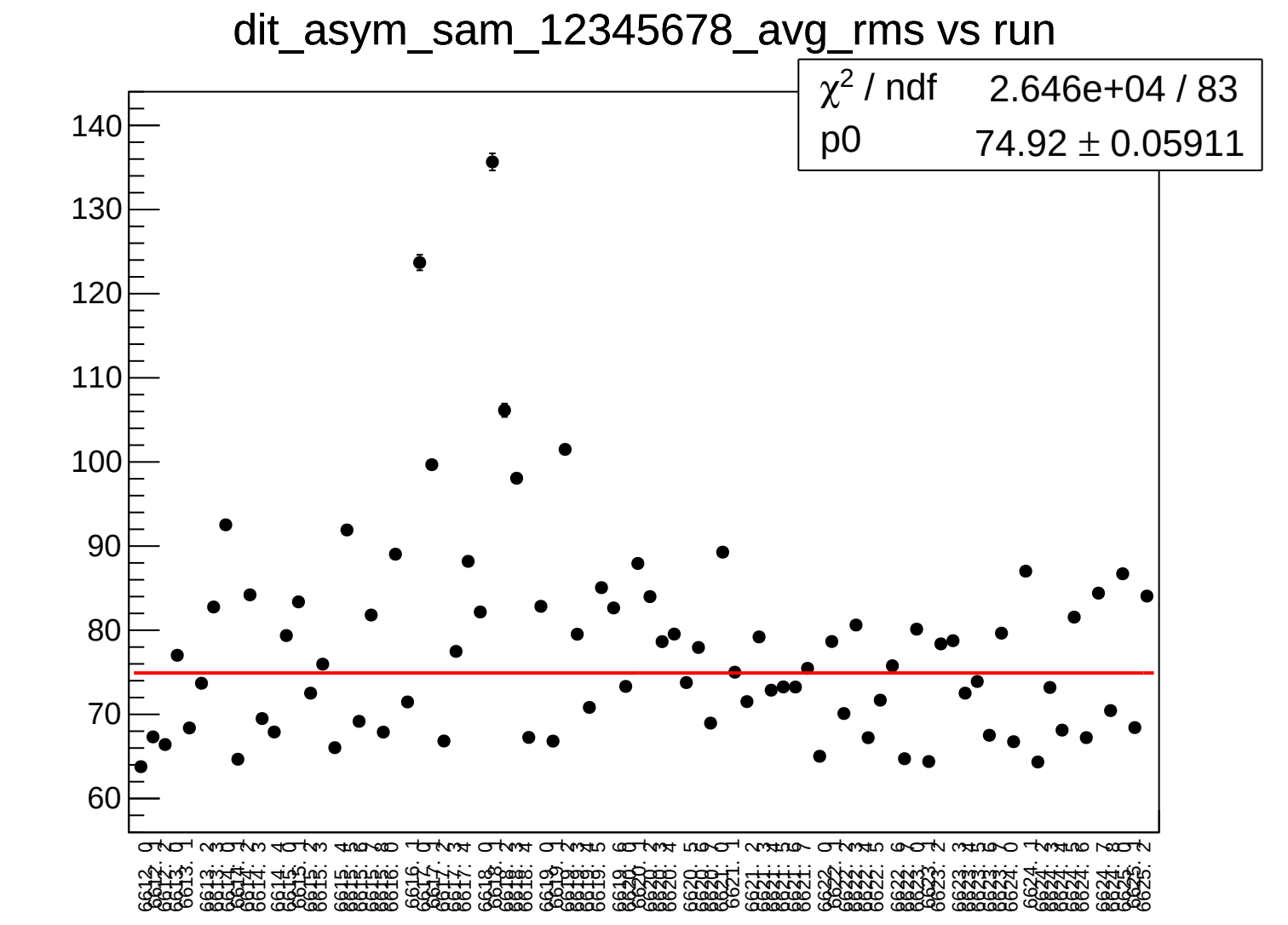

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.69 / 83
p0 −1410 ± 595
pull
Entries 84
Mean 231.9
Std Dev 0

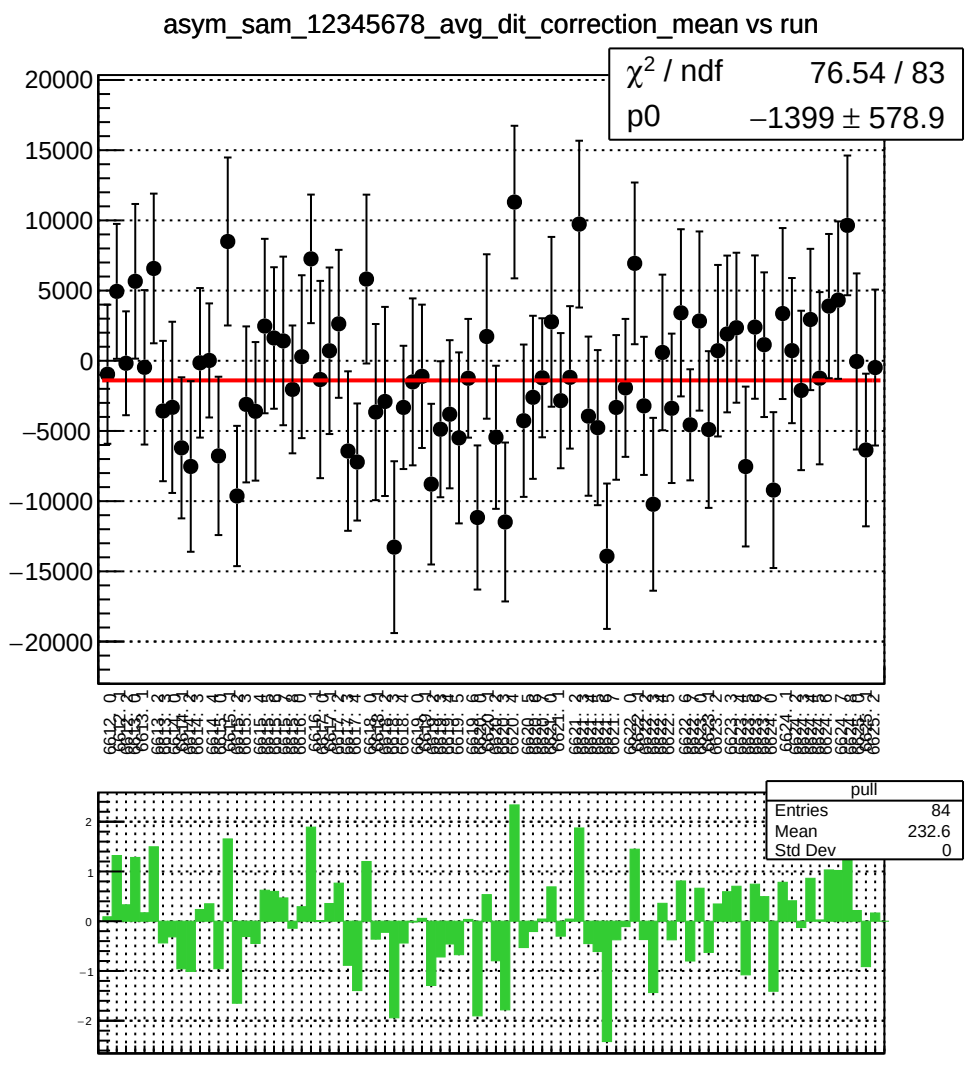

pull1D
Entries 84
Mean 0.005133
Std Dev 0.9555

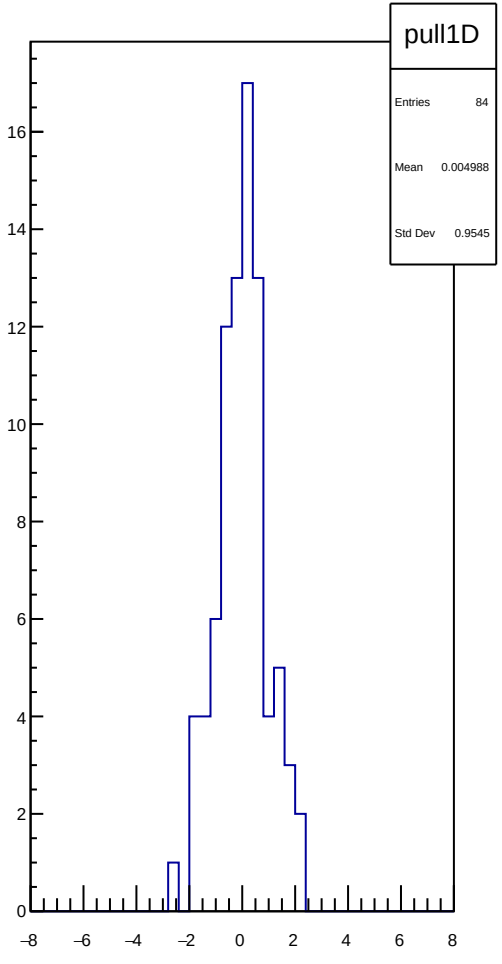

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.422e+04 / 83
p0 535.2 ± 0.4207
700
650
600
550
500
450

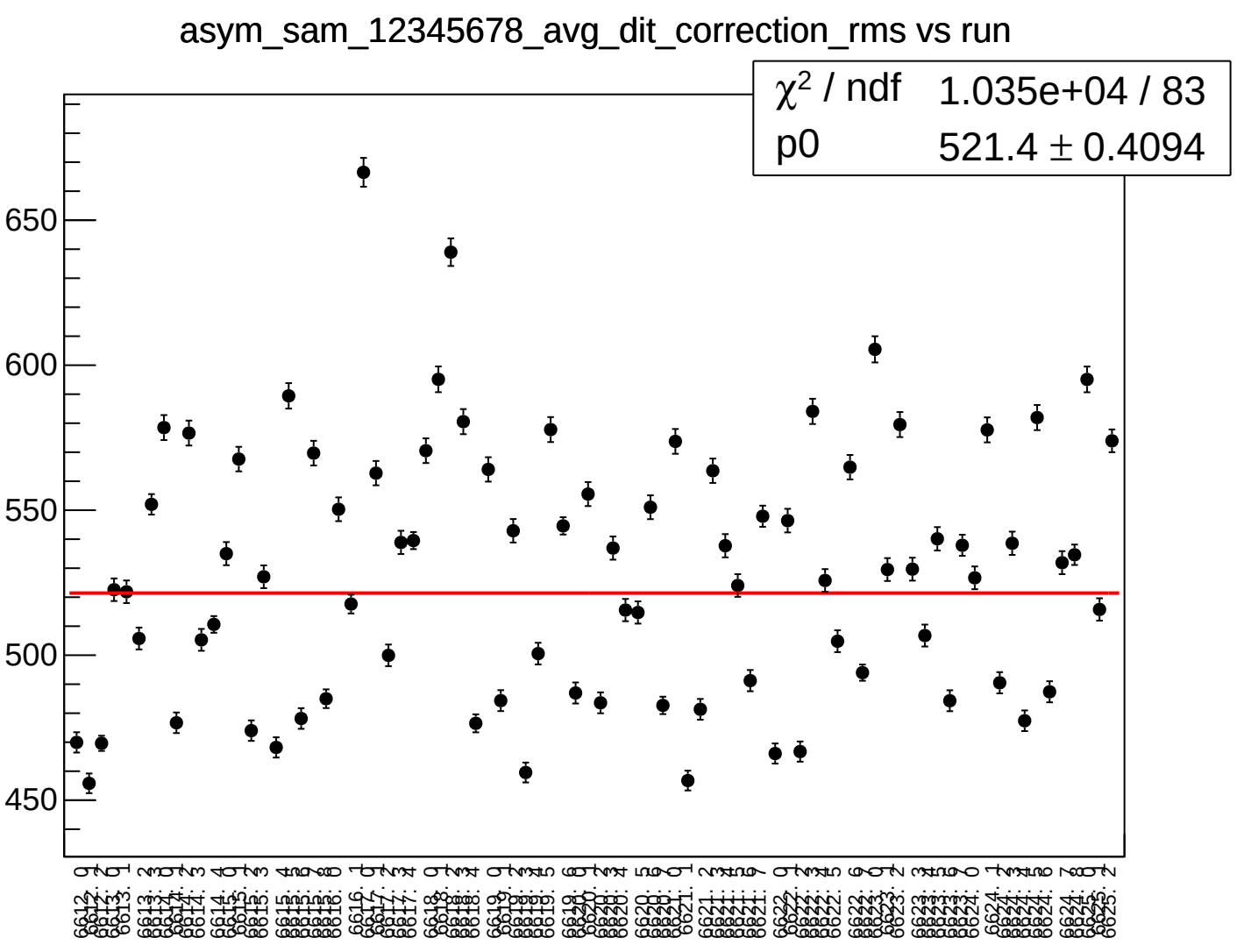

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 67.98 / 83
p0 125.5 ± 83.6
pull
Entries 84
Mean 68.58
Std Dev 54.69

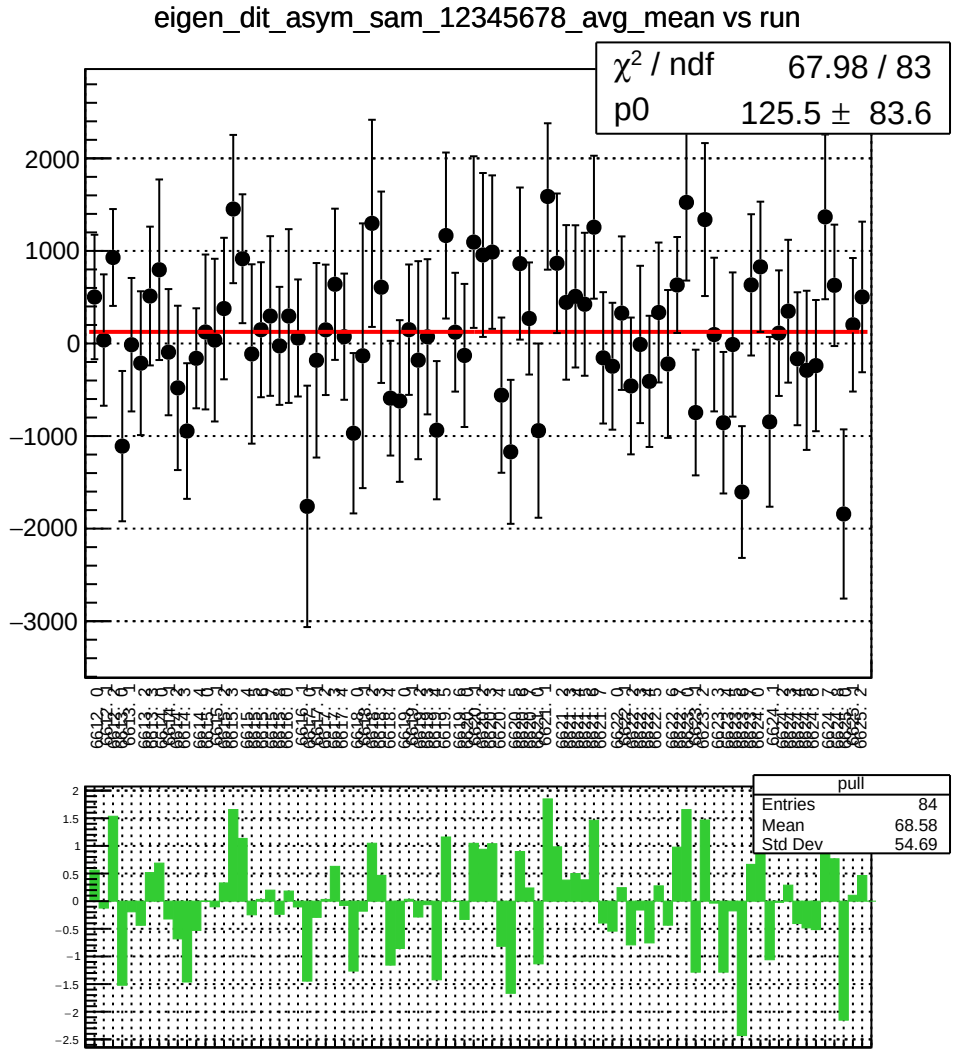

pull1D
Entries 84
Mean −0.007518
Std Dev 0.8996

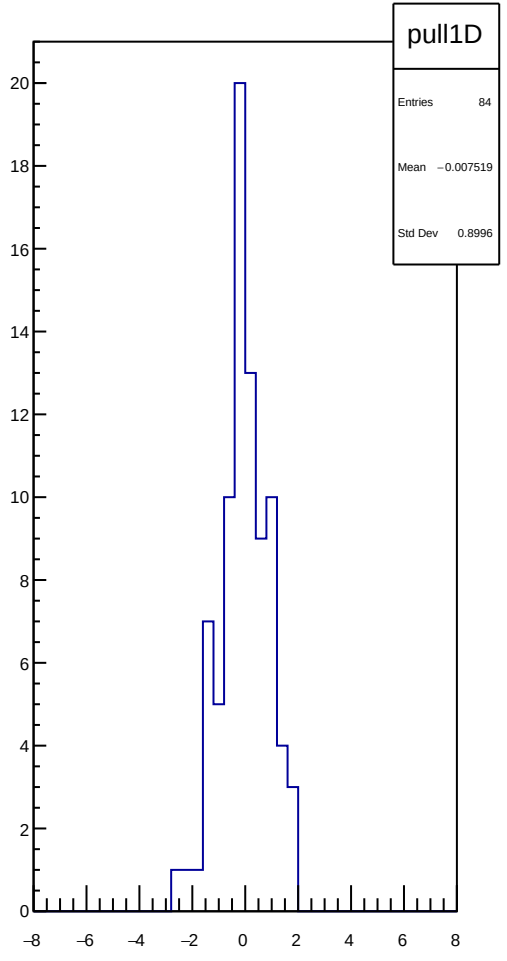

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.646e+04 / 83
p0 74.92 ± 0.05911
140
130
120
110
100
90
80
70
60

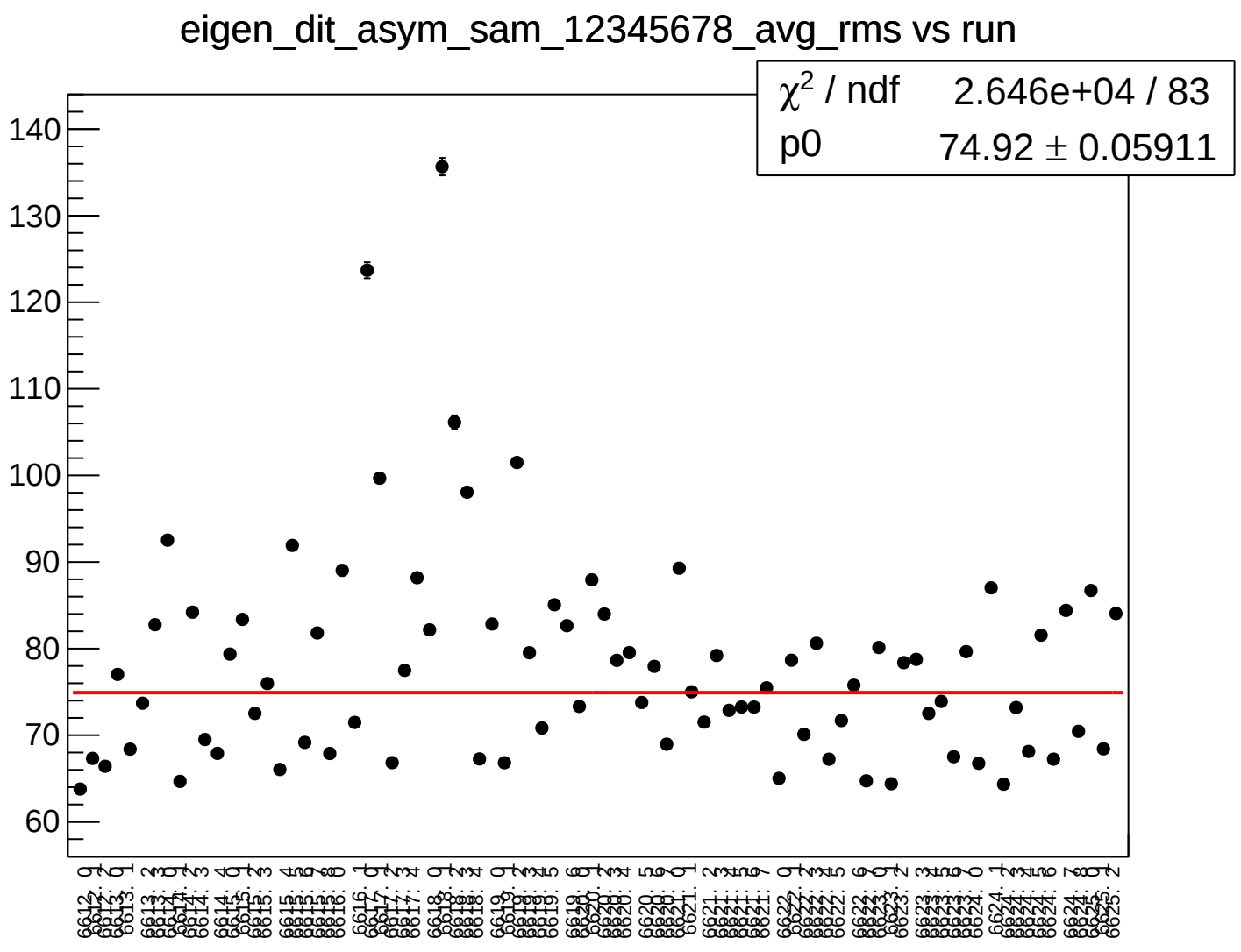

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 76.54 / 83
p0 −1399 ± 578.9
pull
Entries 84
Mean 232.6
Std Dev 0

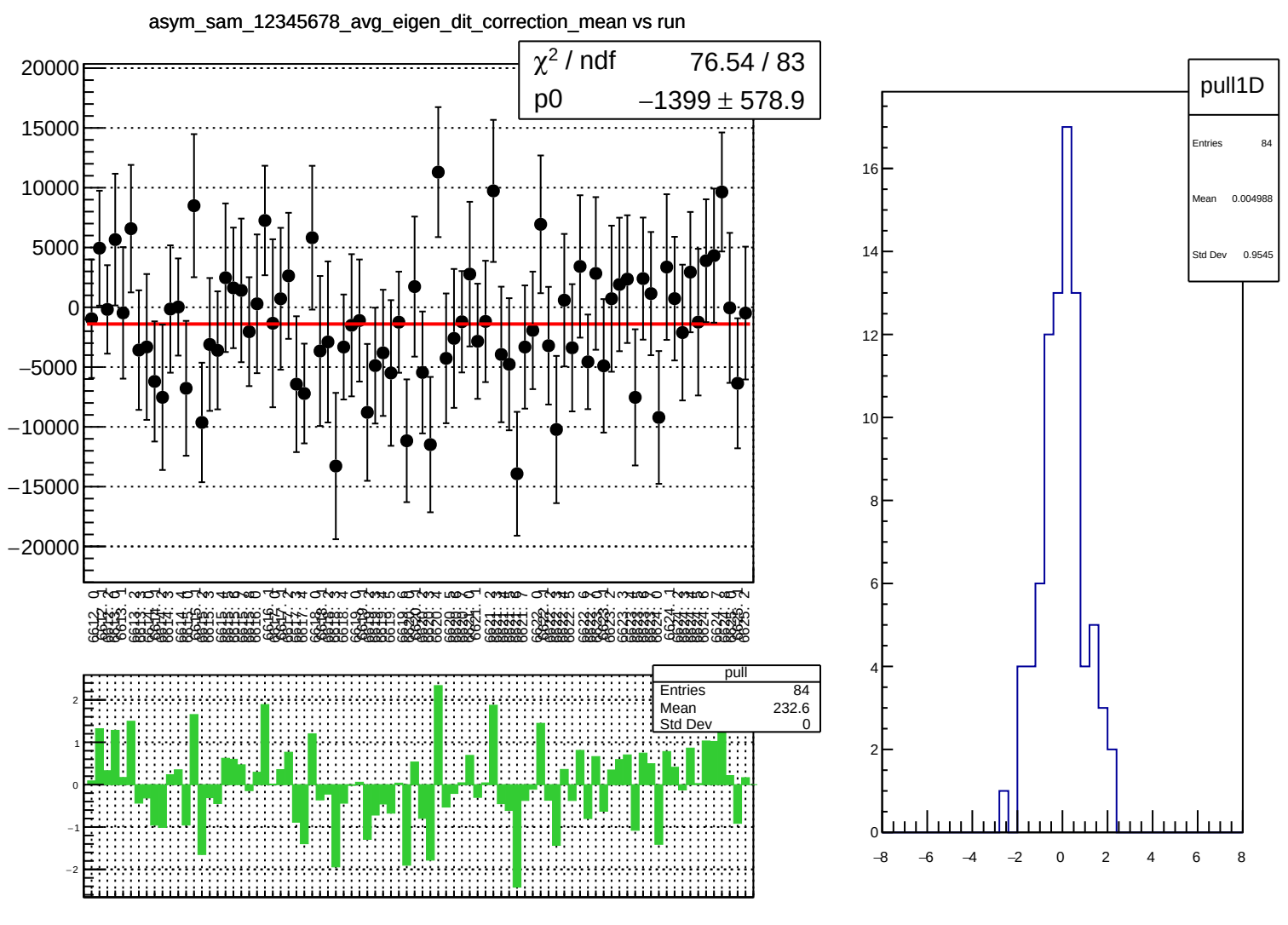

pull1D
Entries 84
Mean 0.004988
Std Dev 0.9545

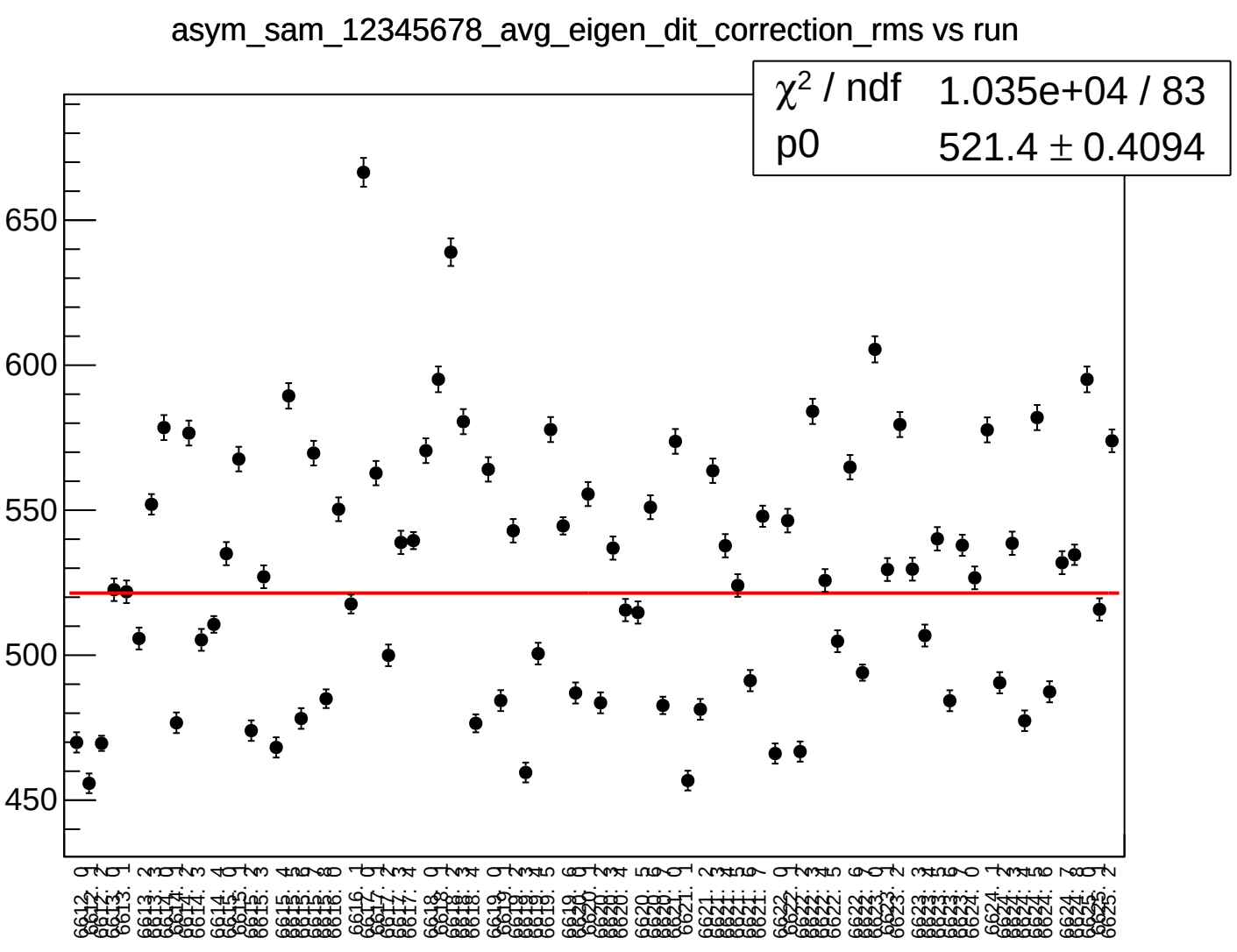

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1.035e+04 / 83
p0 521.4 ± 0.4094
650
600
550
500
450

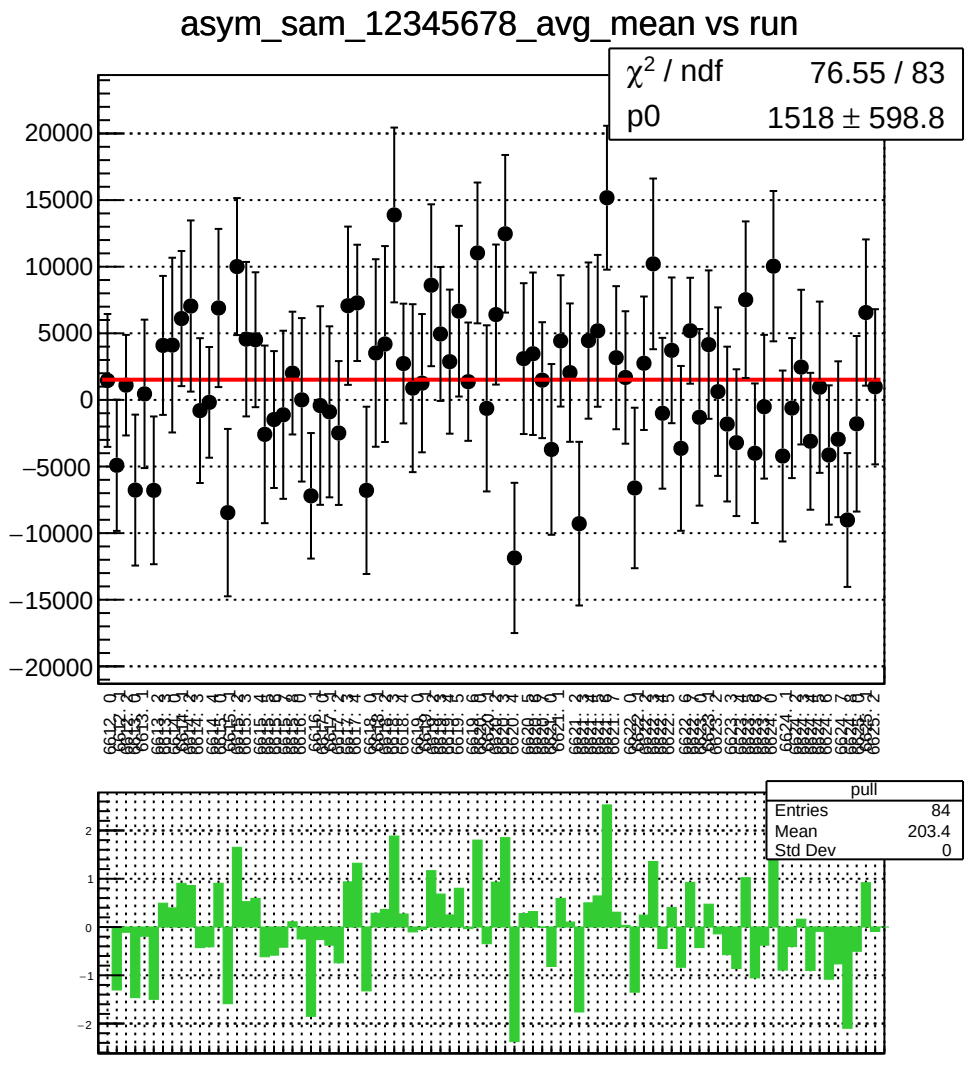

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 67.98 / 83
p0 125.5 ± 83.6
pull
Entries 84
Mean 68.58
Std Dev 54.69

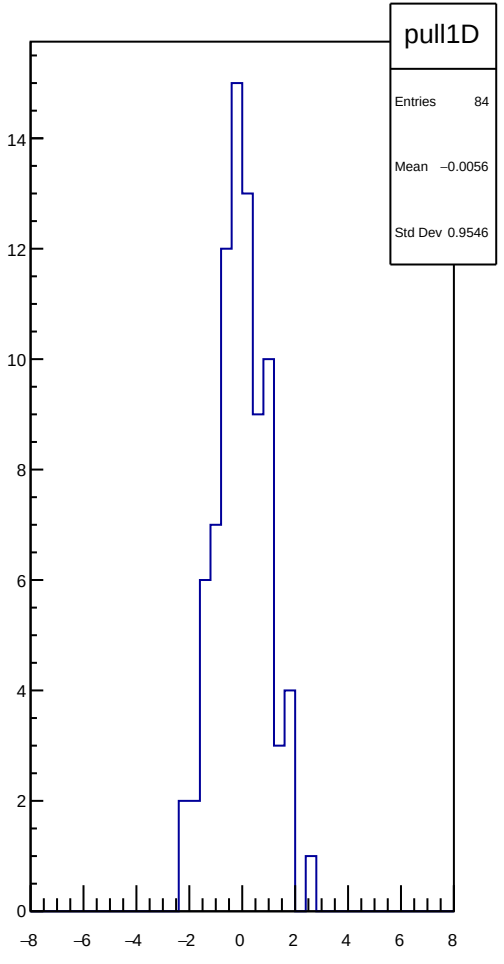

pull1D
Entries 84
Mean −0.007519
Std Dev 0.8996

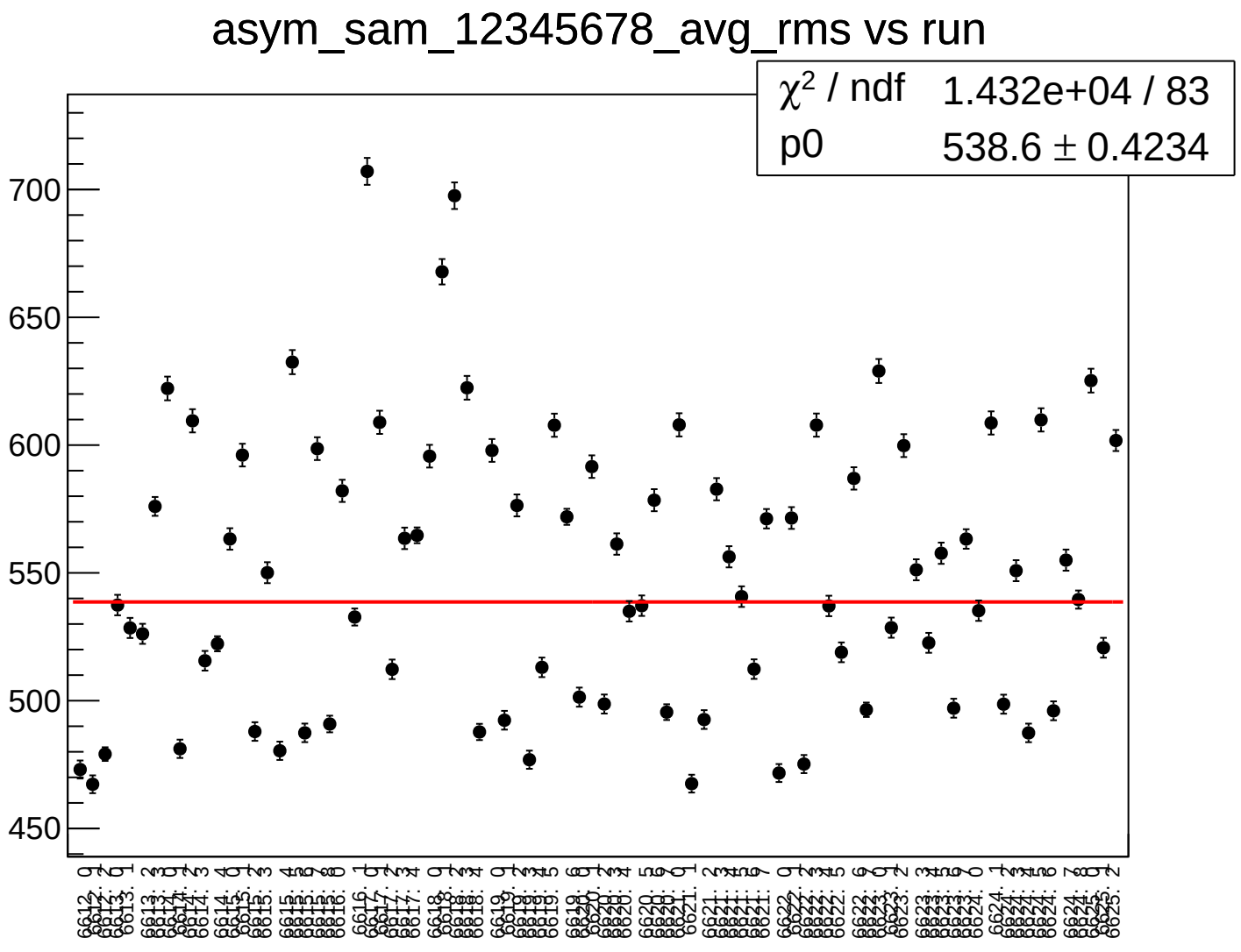

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.646e+04 / 83
p0 74.92 ± 0.05911
140
130
120
110
100
90
80
70
60

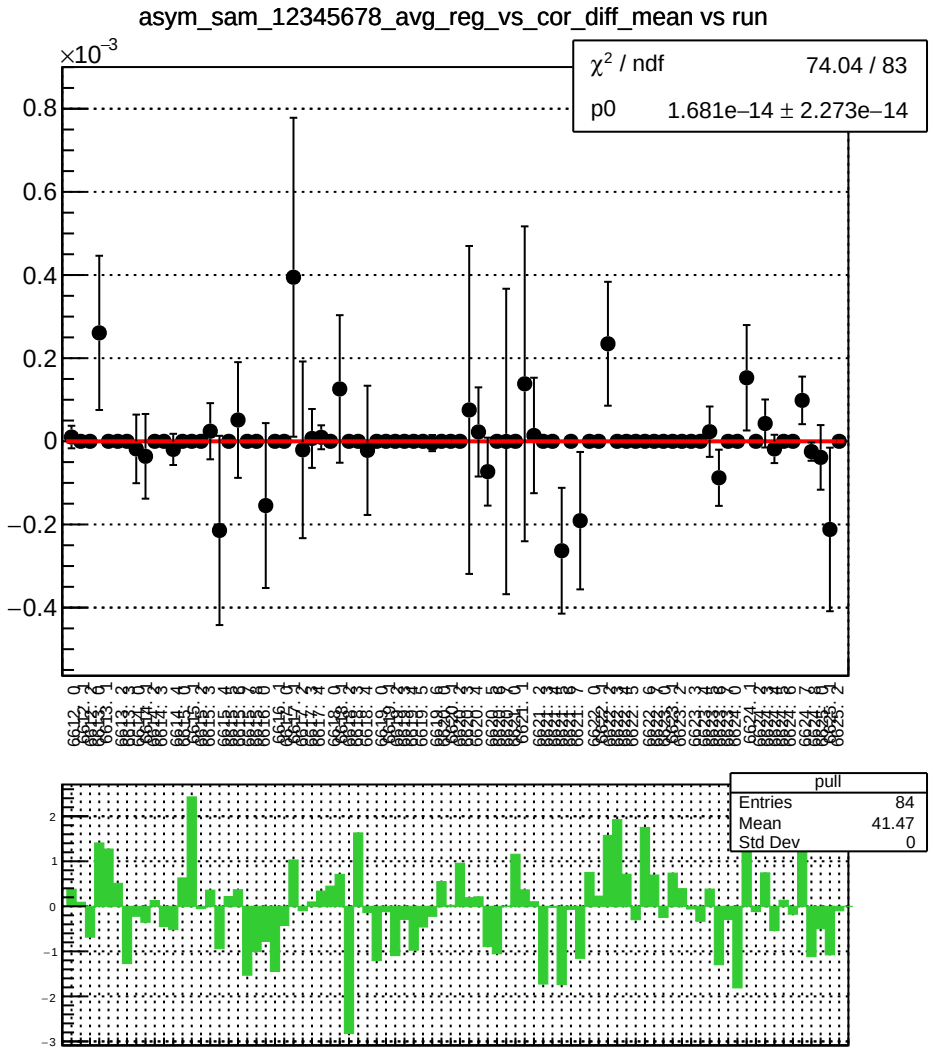

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.54 / 83
p0 −1399 ± 578.9
pull
Entries 84
Mean 232.6
Std Dev 0
pull1D
Entries 84
Mean 0.004988
Std Dev 0.9545

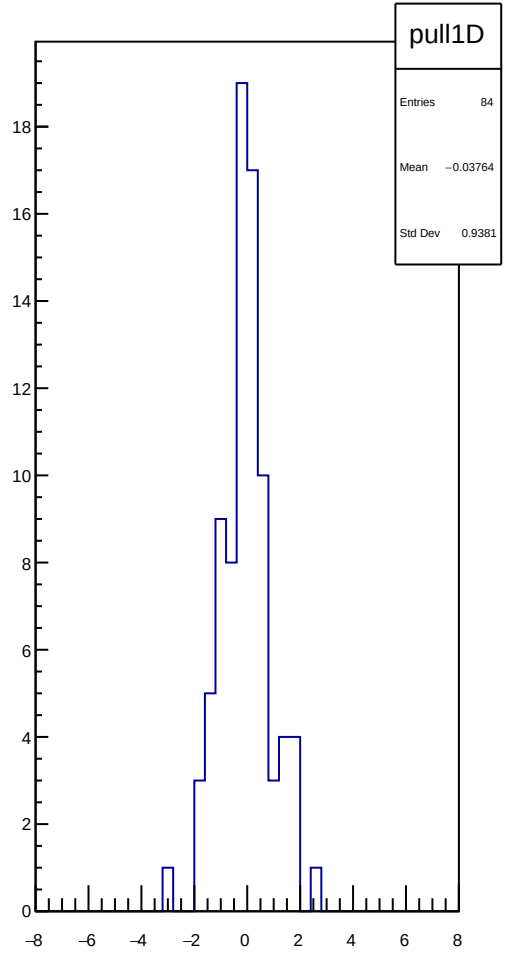

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.035e+04 / 83
p0 521.4 ± 0.4094
650
600
550
500
450

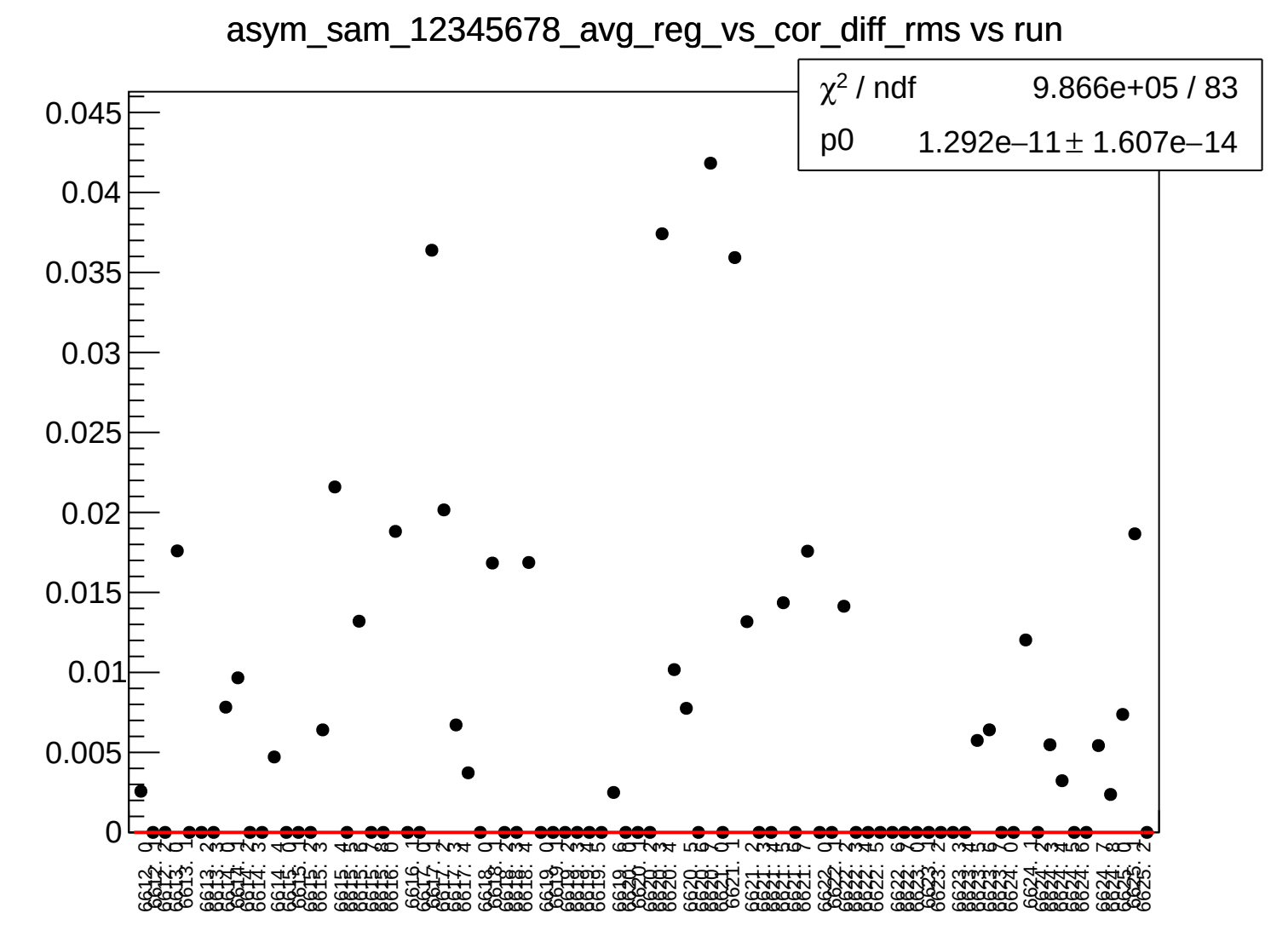

asym_sam_12345678_avg_mean vs run
χ² / ndf 76.55 / 83
p0 1518 ± 598.8
pull
Entries 84
Mean 203.4
Std Dev 0

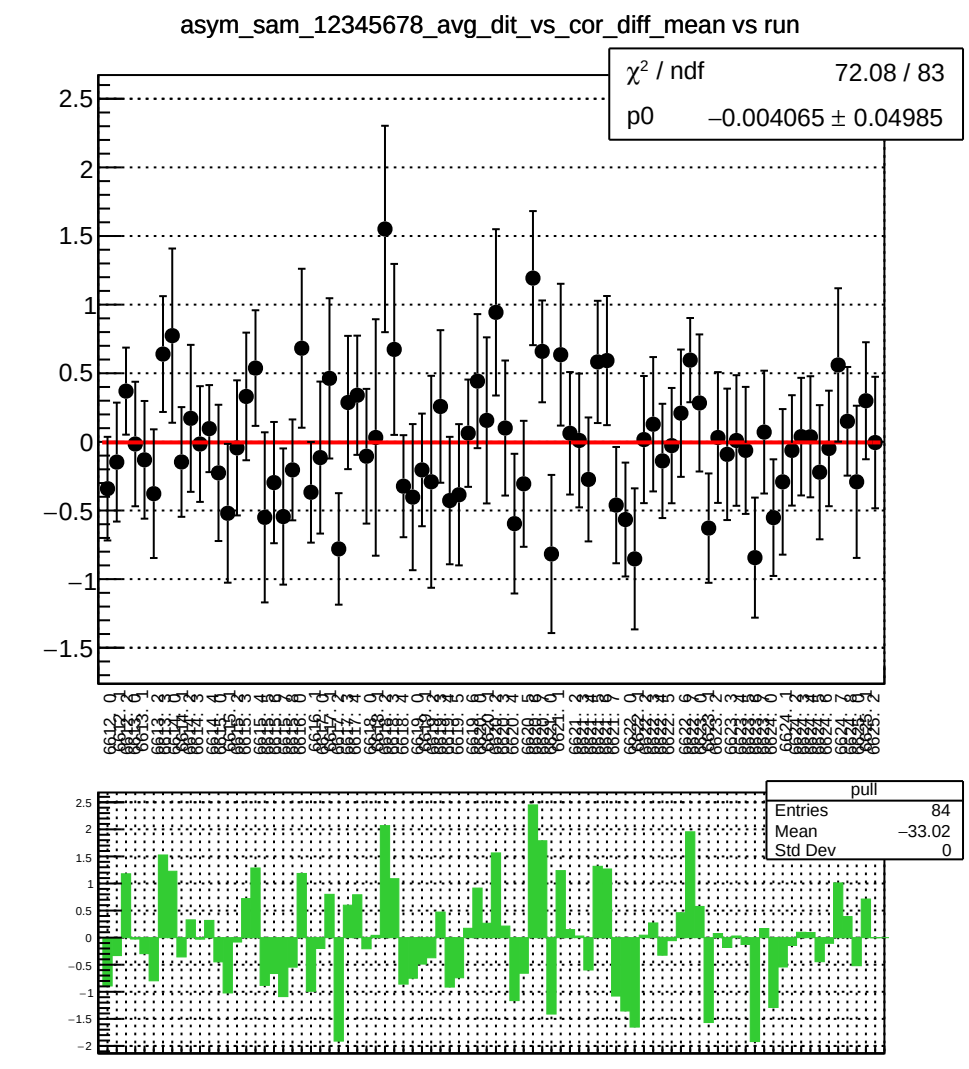

pull1D
Entries 84
Mean −0.0056
Std Dev 0.9546

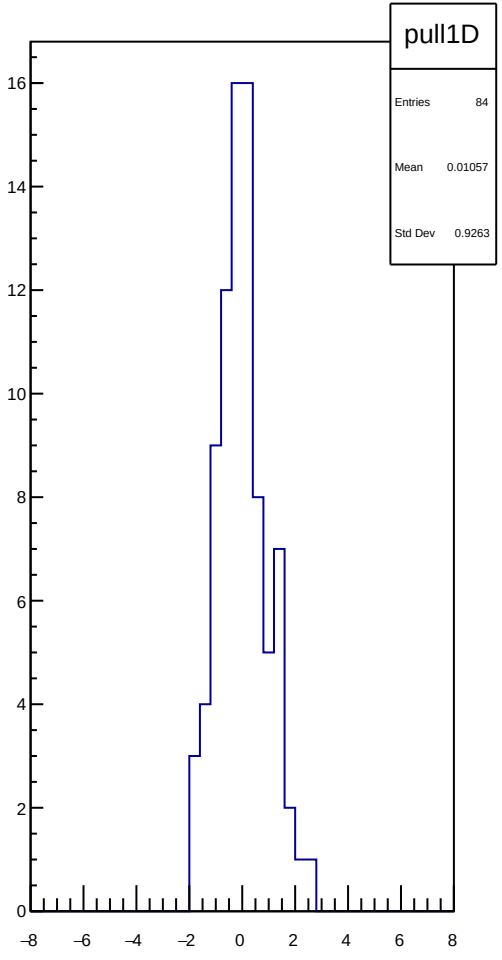

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.432e+04 / 83
p0 538.6 ± 0.4234
700
650
600
550
500
450

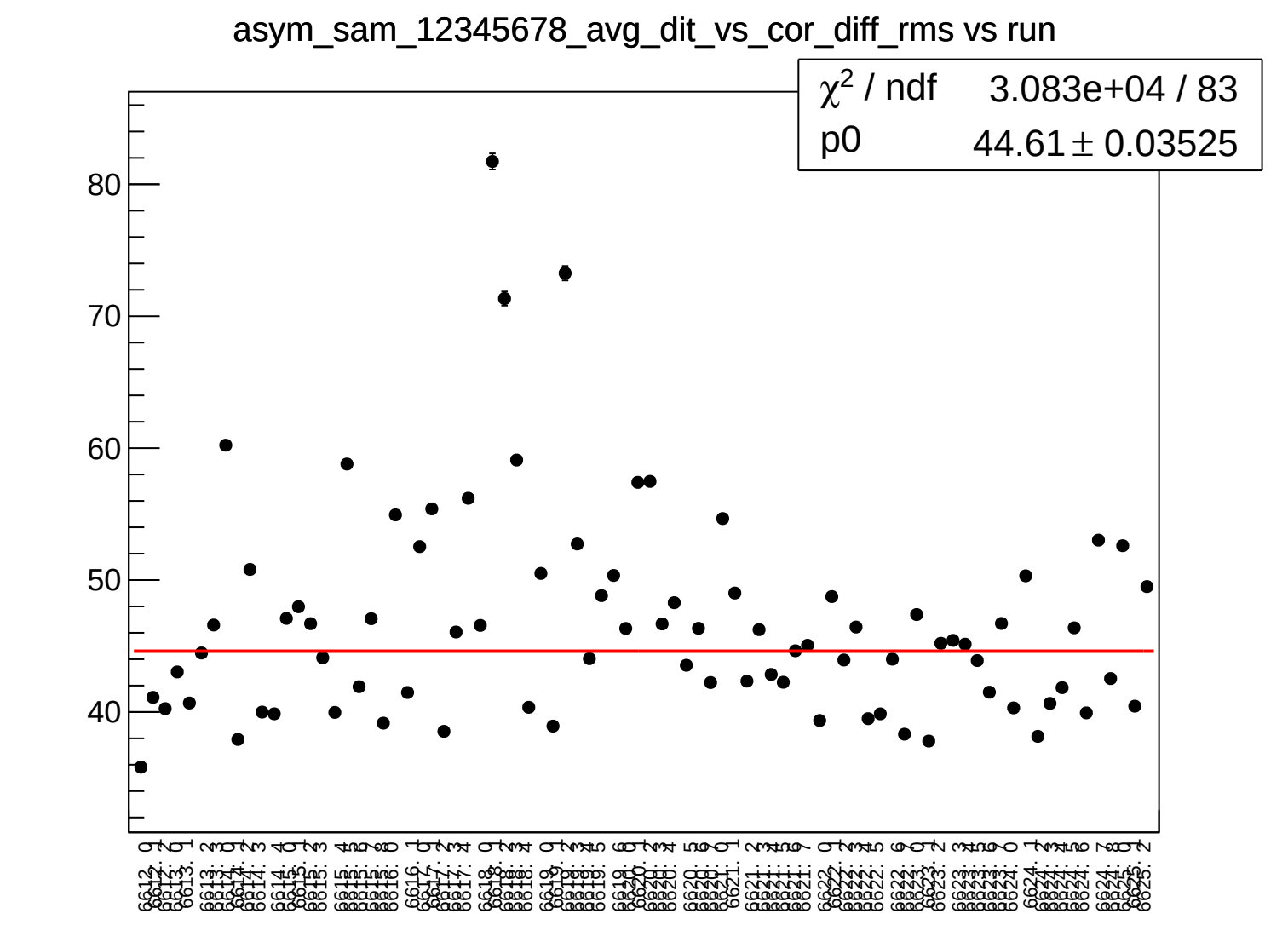

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 74.04 / 83
p0 1.681e−14 ± 2.273e−14
pull
Entries 84
Mean 41.47
Std Dev 0

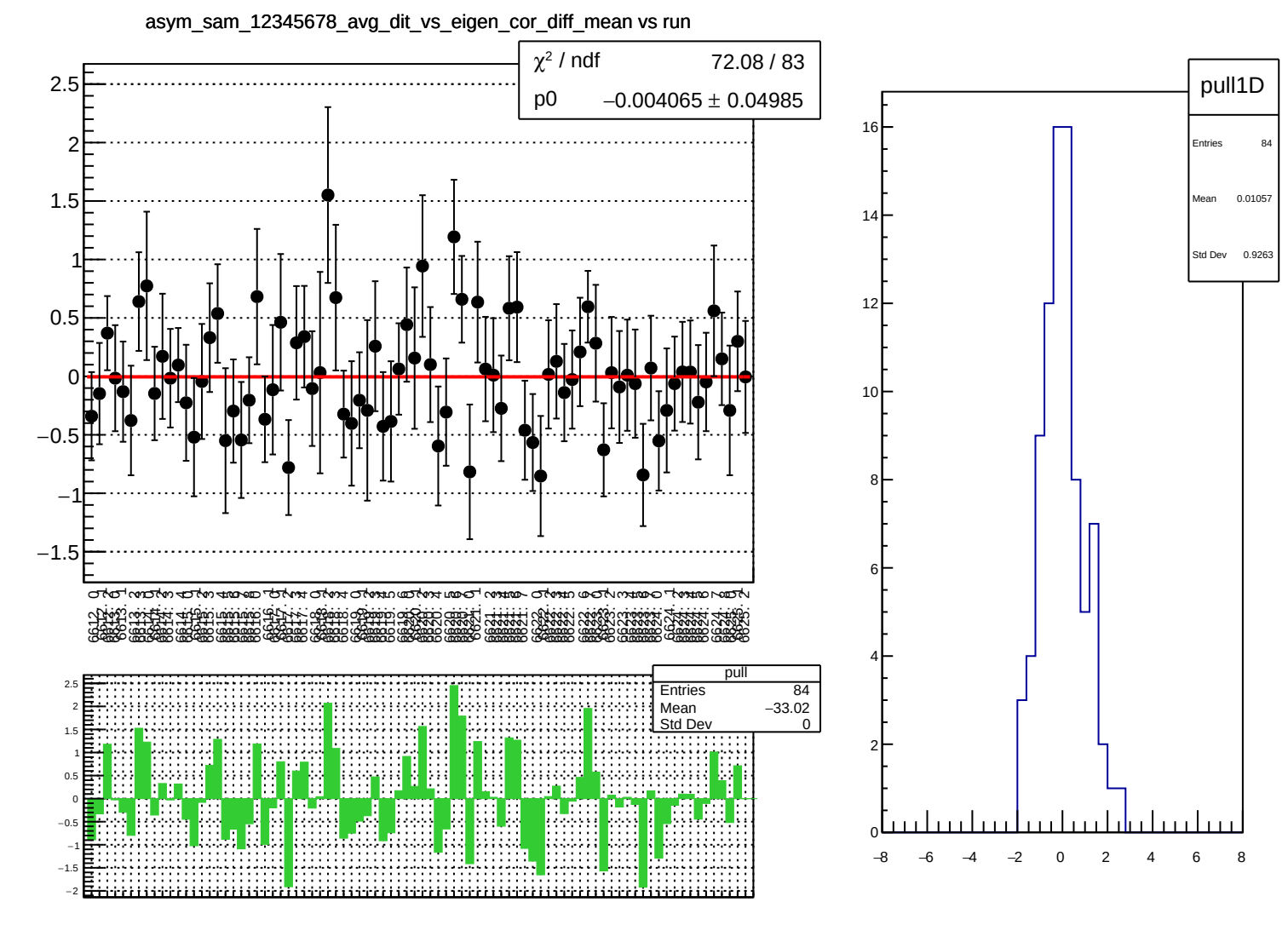

pull1D
Entries 84
Mean −0.03764
Std Dev 0.9381

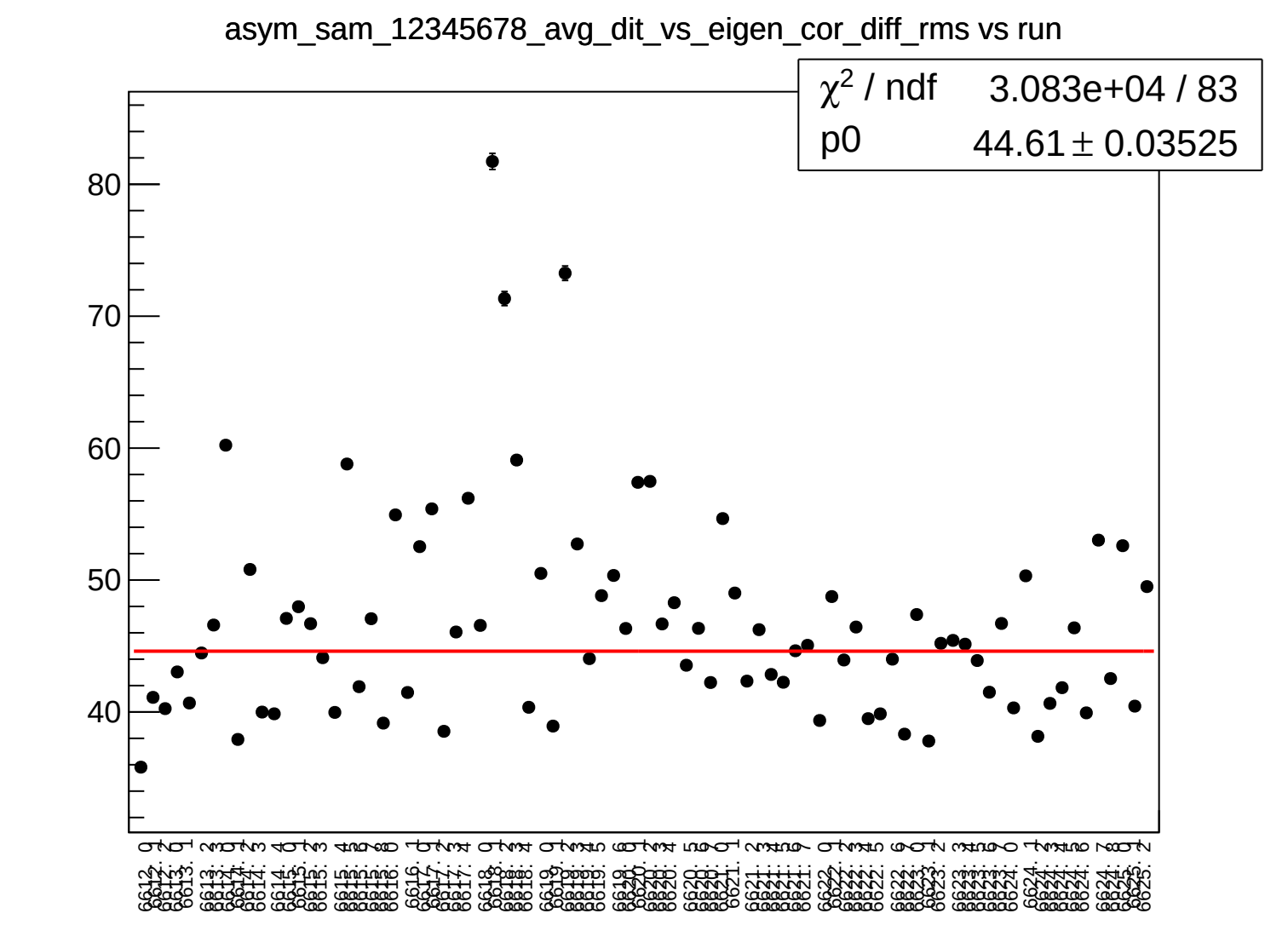

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.866e+05 / 83
p0 1.292e−11 ± 1.607e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

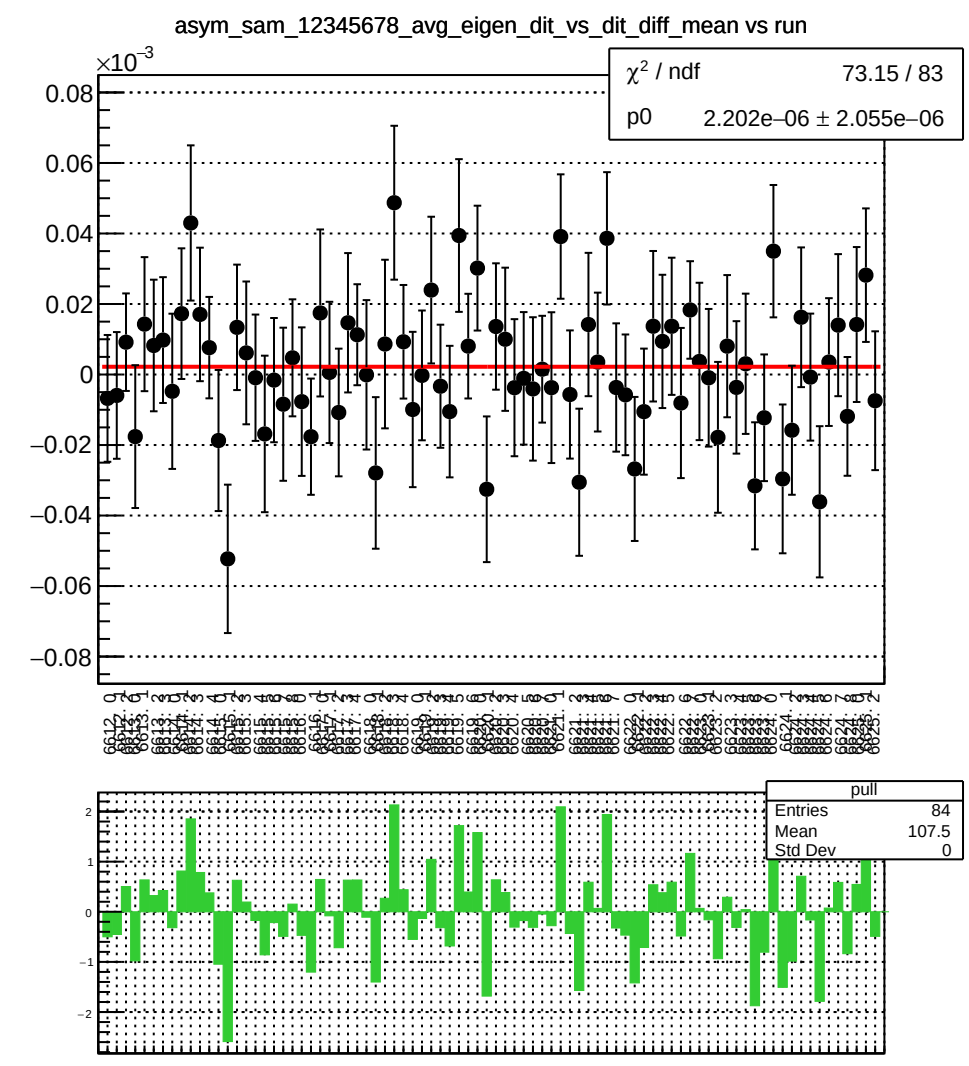

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.08 / 83
p0 −0.004065 ± 0.04985
pull
Entries 84
Mean −33.02
Std Dev 0

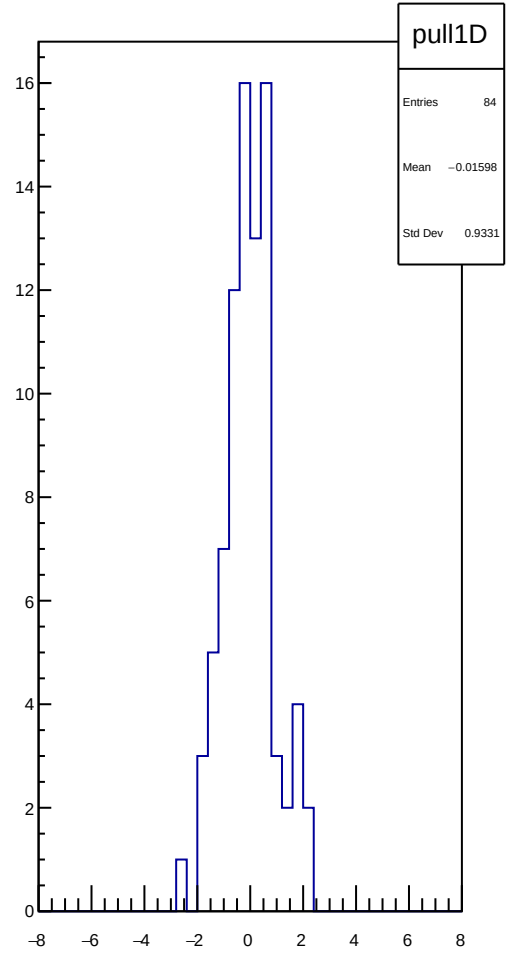

pull1D
Entries 84
Mean 0.01057
Std Dev 0.9263

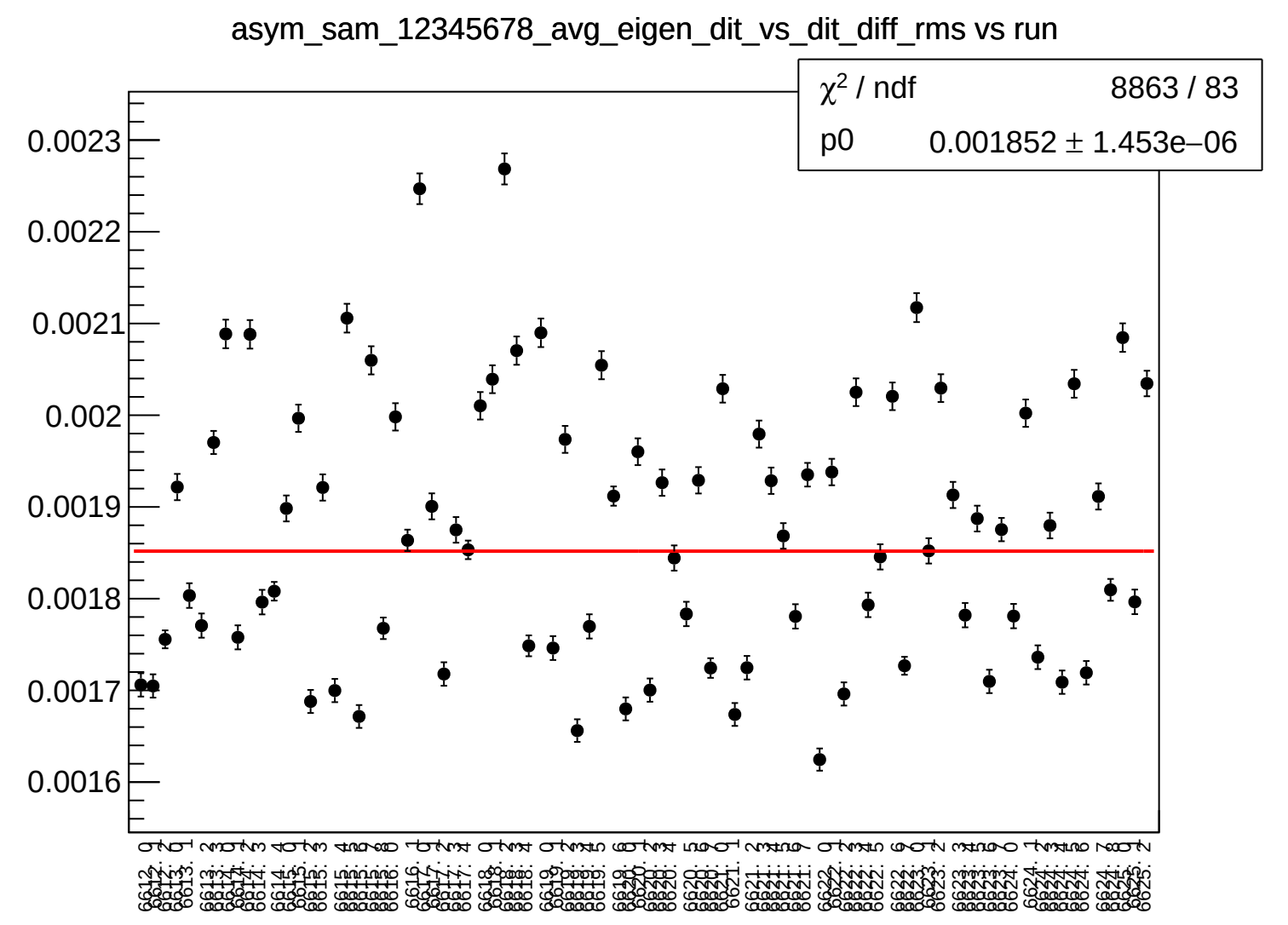

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.083e+04 / 83
p0 44.61 ± 0.03525
80
70
60
50
40

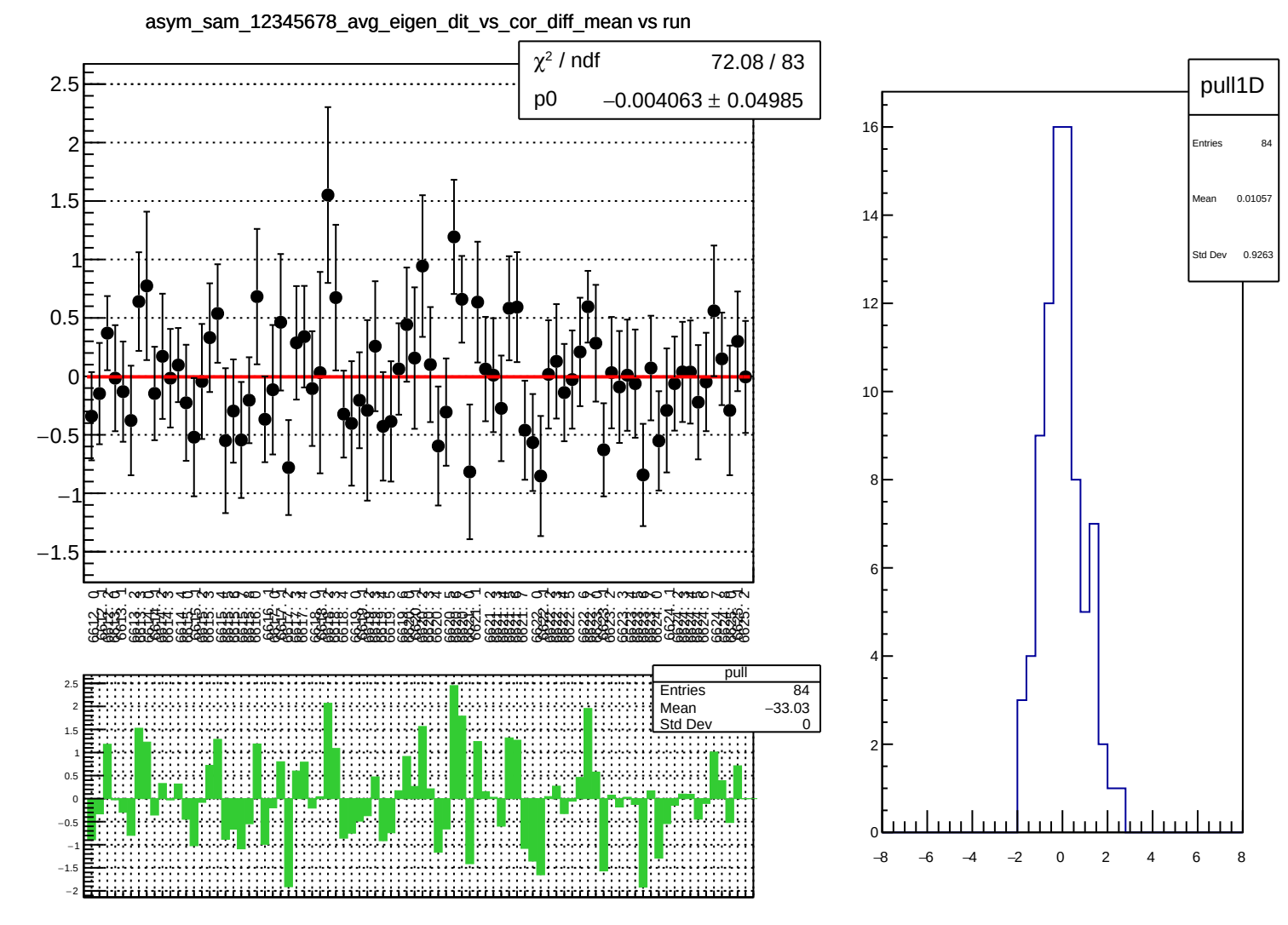

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.08 / 83
p0 −0.004065 ± 0.04985
pull
Entries 84
Mean −33.02
Std Dev 0
pull1D
Entries 84
Mean 0.01057
Std Dev 0.9263

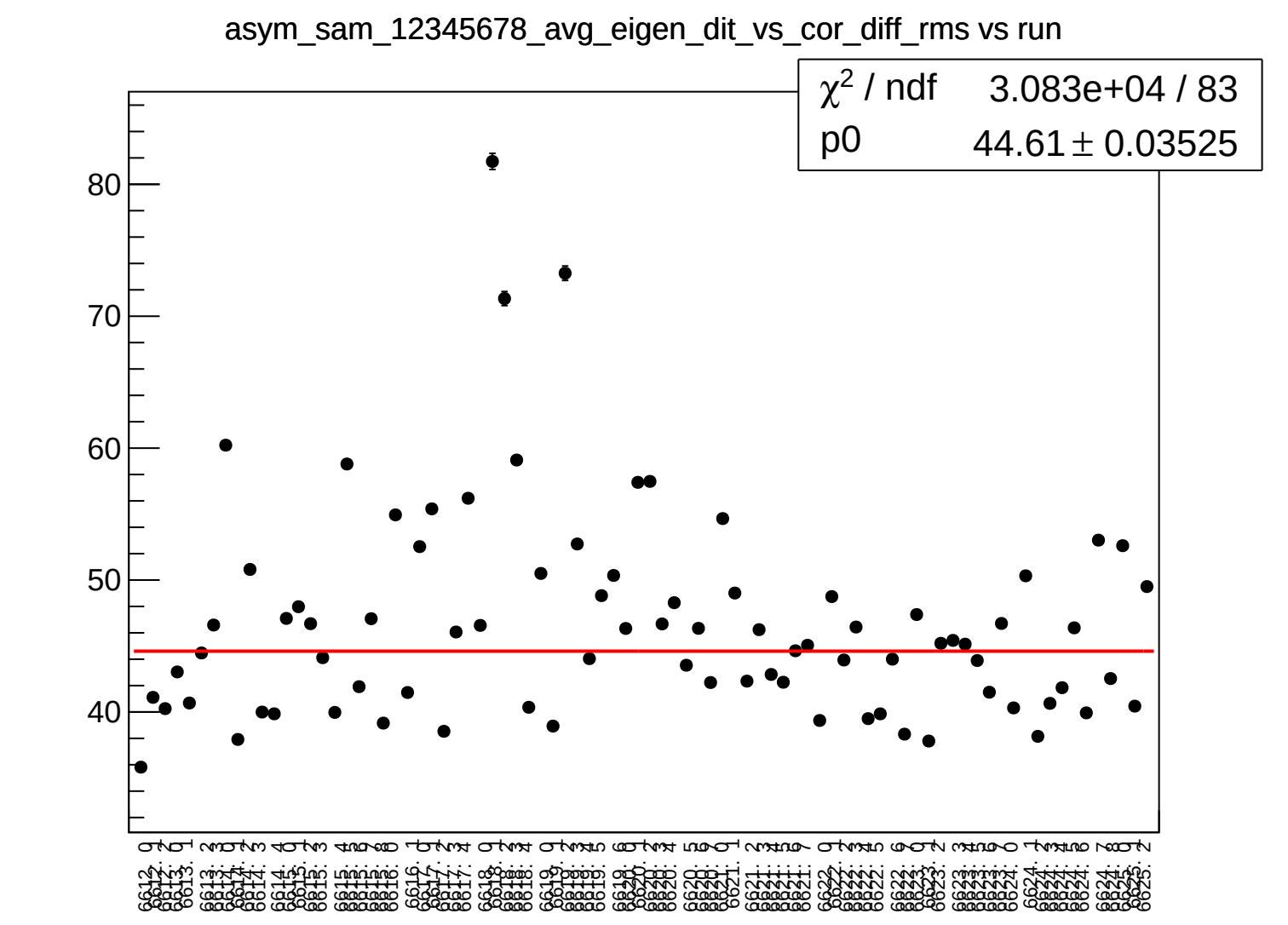

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.083e+04 / 83
p0 44.61 ± 0.03525
80
70
60
50
40

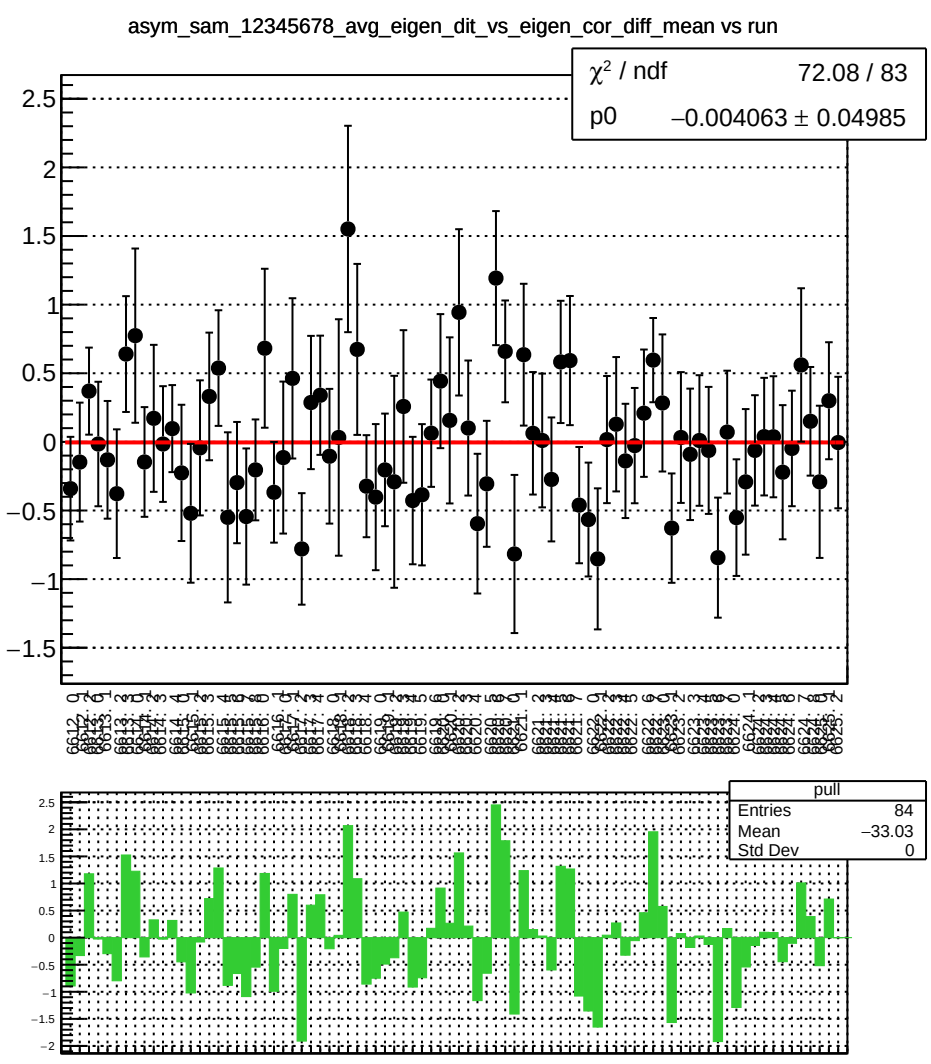

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.15 / 83
p0 2.202e−06 ± 2.055e−06
pull
Entries 84
Mean 107.5
Std Dev 0

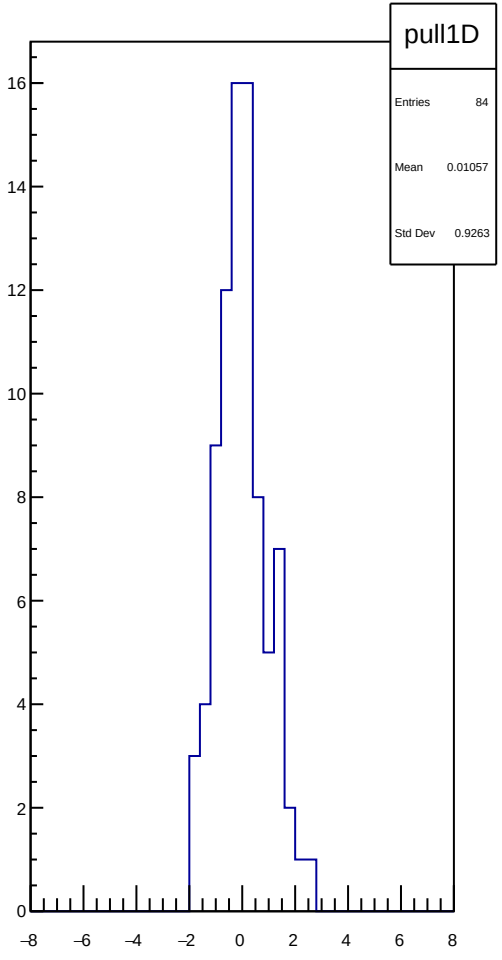

pull1D
Entries 84
Mean −0.01598
Std Dev 0.9331

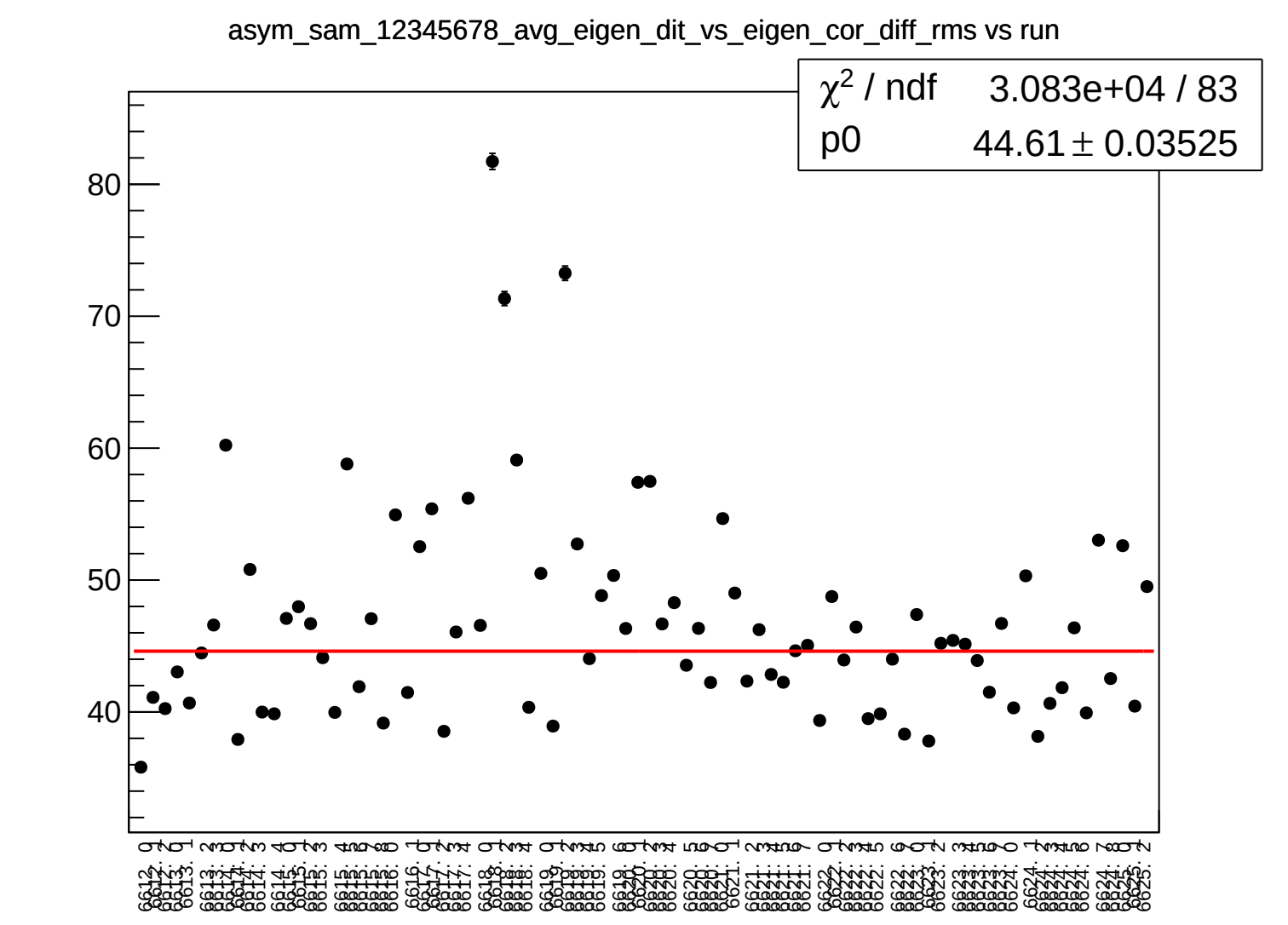

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8863 / 83
p0 0.001852 ± 1.453e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

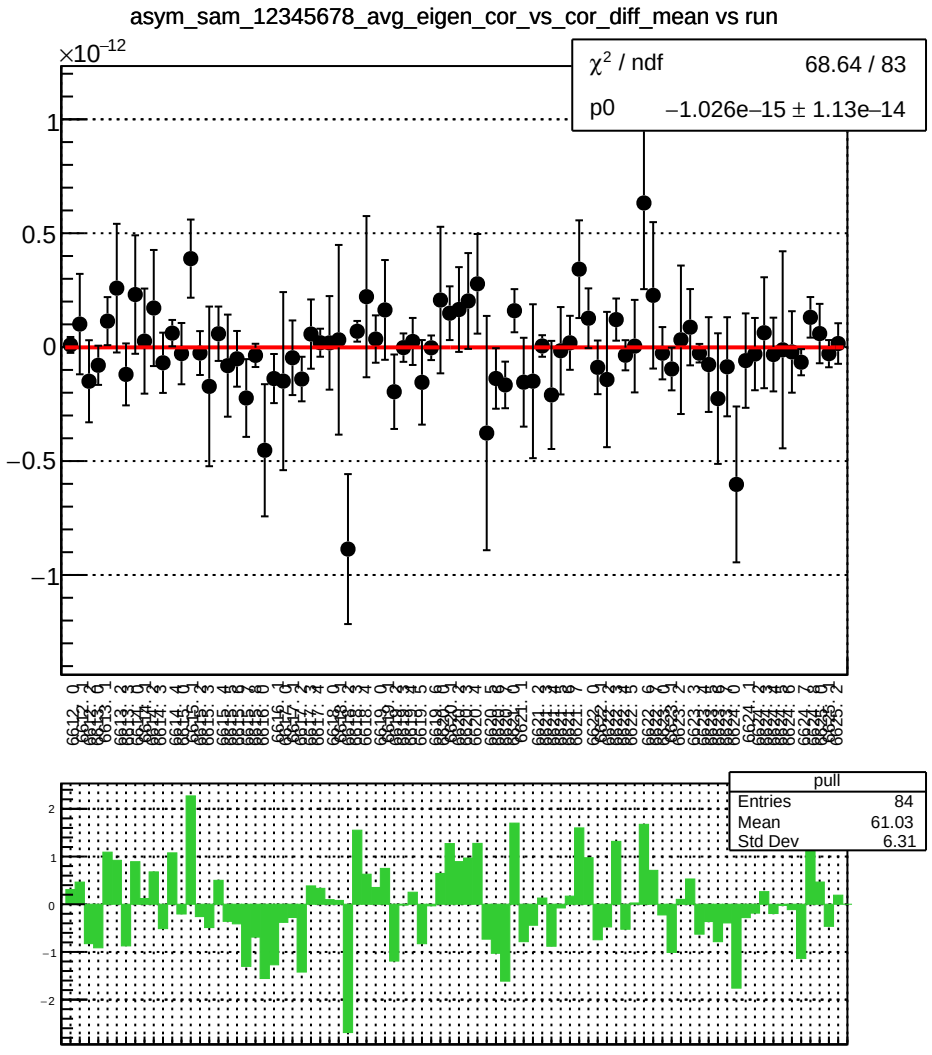

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.08 / 83
p0 −0.004063 ± 0.04985
pull
Entries 84
Mean −33.03
Std Dev 0
pull1D
Entries 84
Mean 0.01057
Std Dev 0.9263

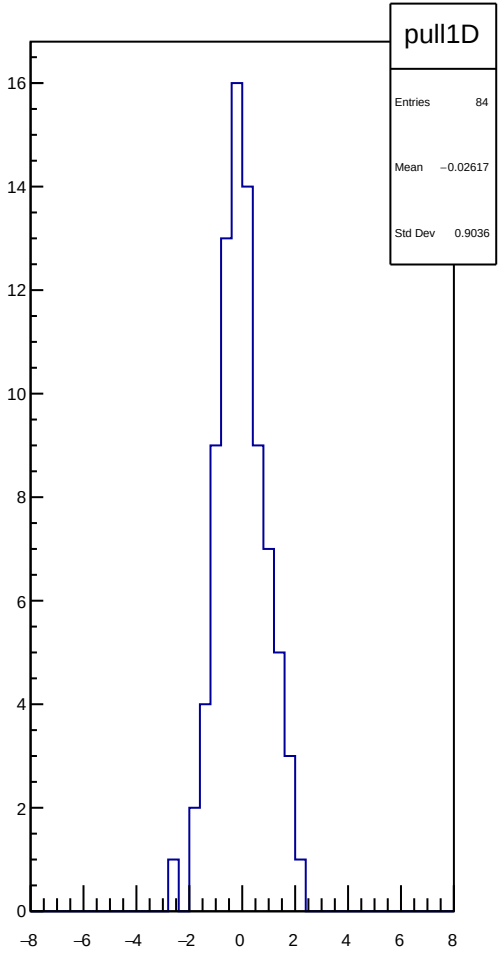

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.083e+04 / 83
p0 44.61 ± 0.03525
80
70
60
50
40

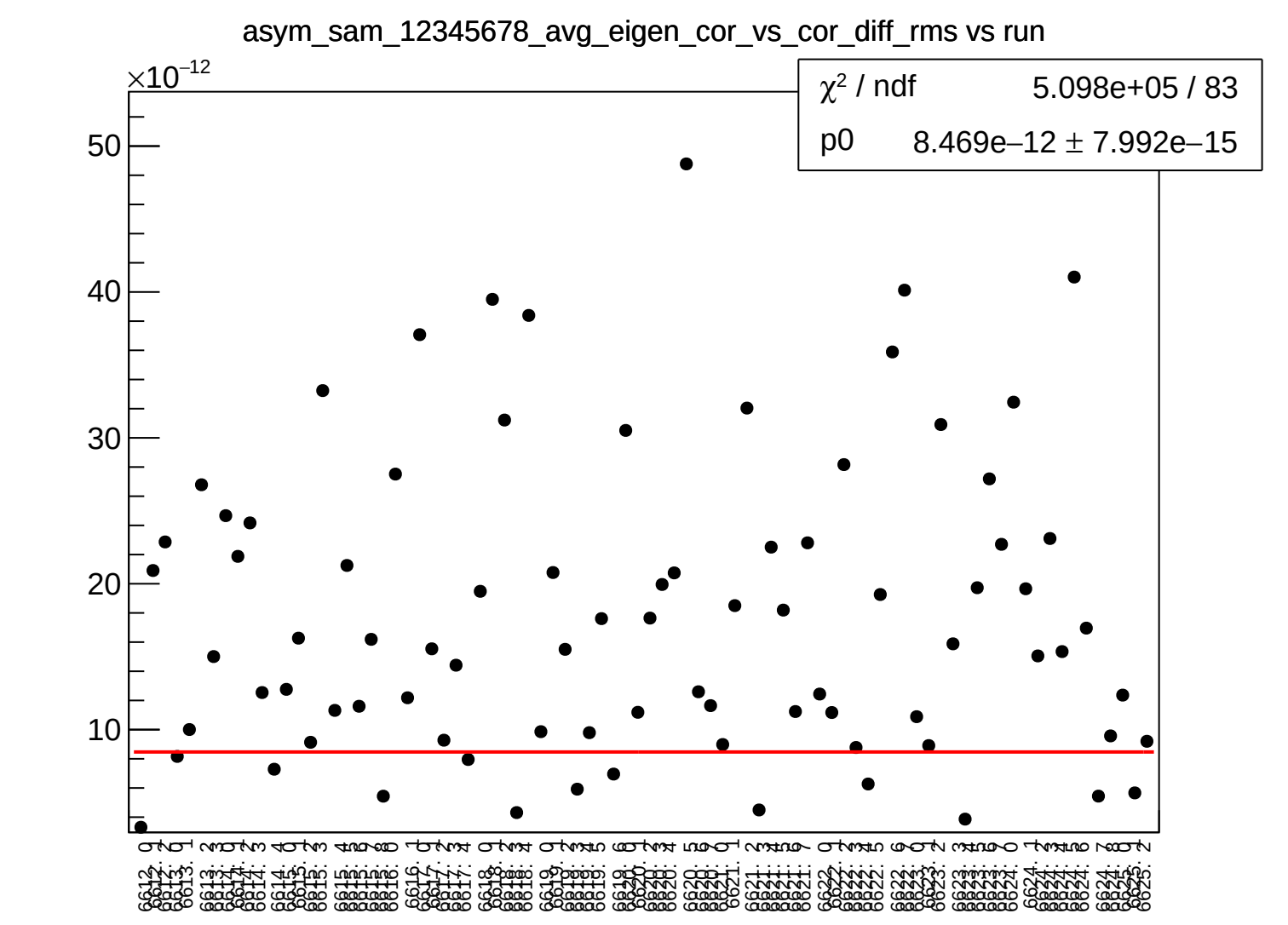

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.08 / 83
p0 −0.004063 ± 0.04985
pull
Entries 84
Mean −33.03
Std Dev 0

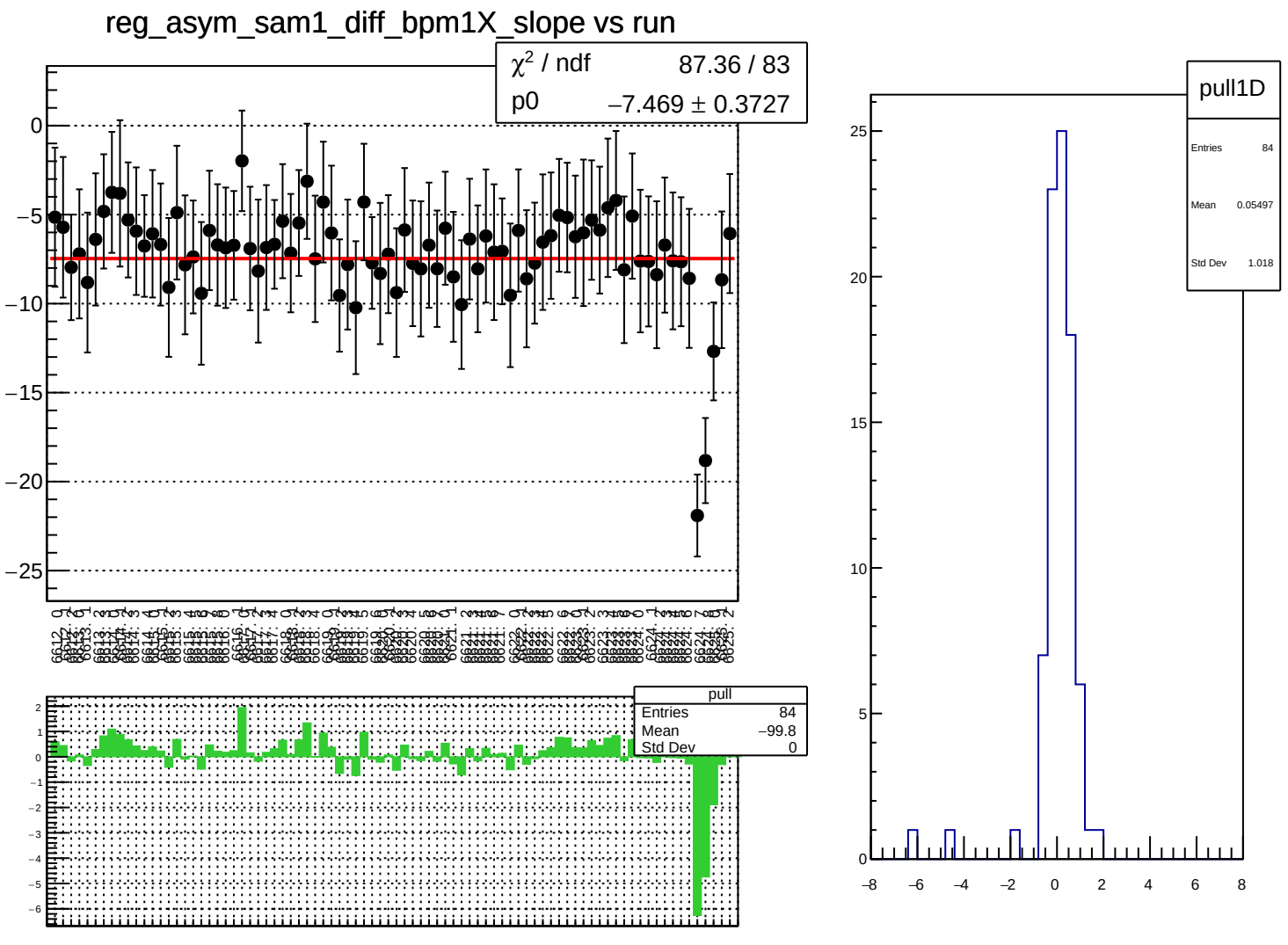

pull1D
Entries 84
Mean 0.01057
Std Dev 0.9263

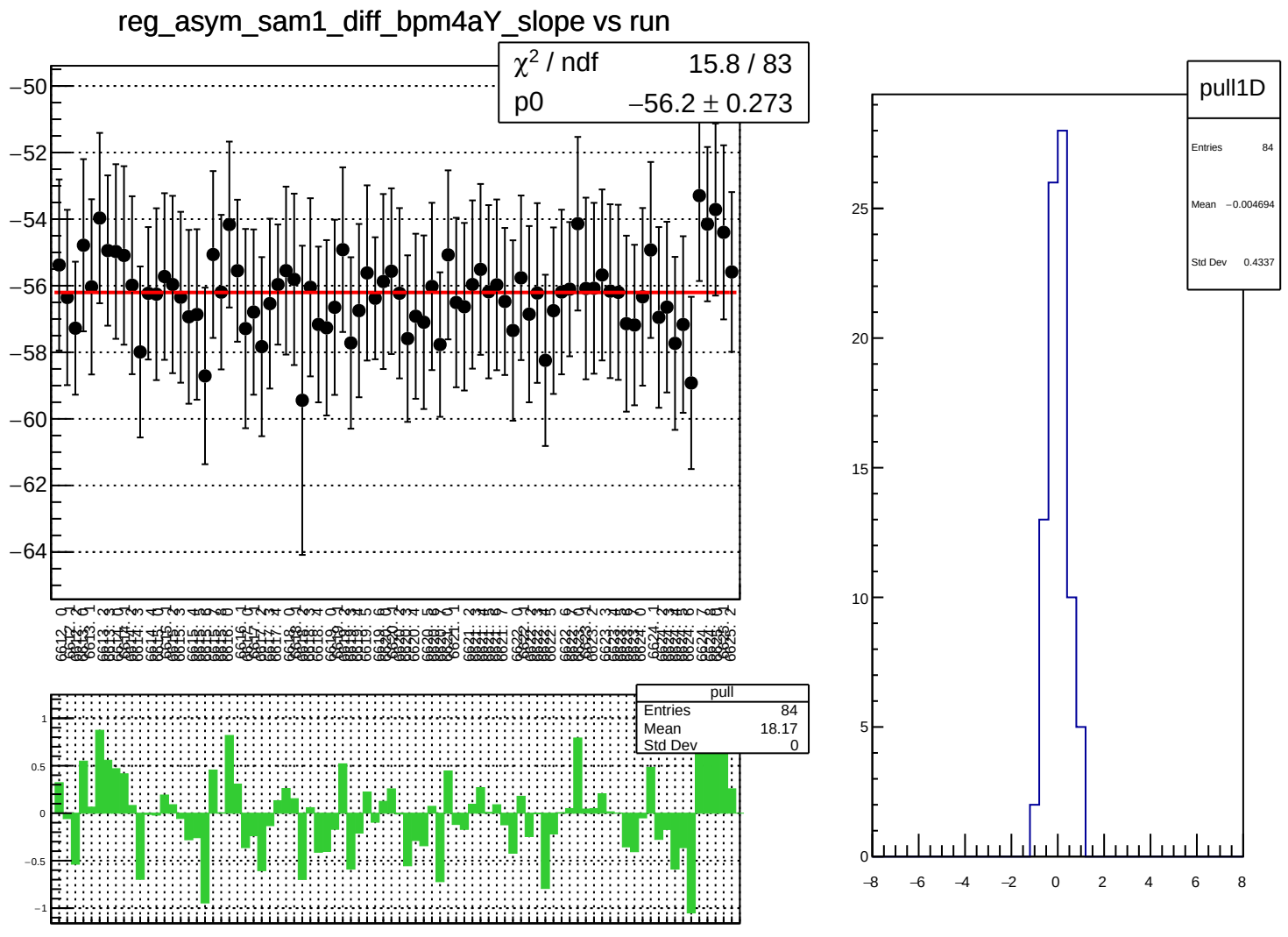

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.083e+04 / 83
p0 44.61 ± 0.03525
80
70
60
50
40

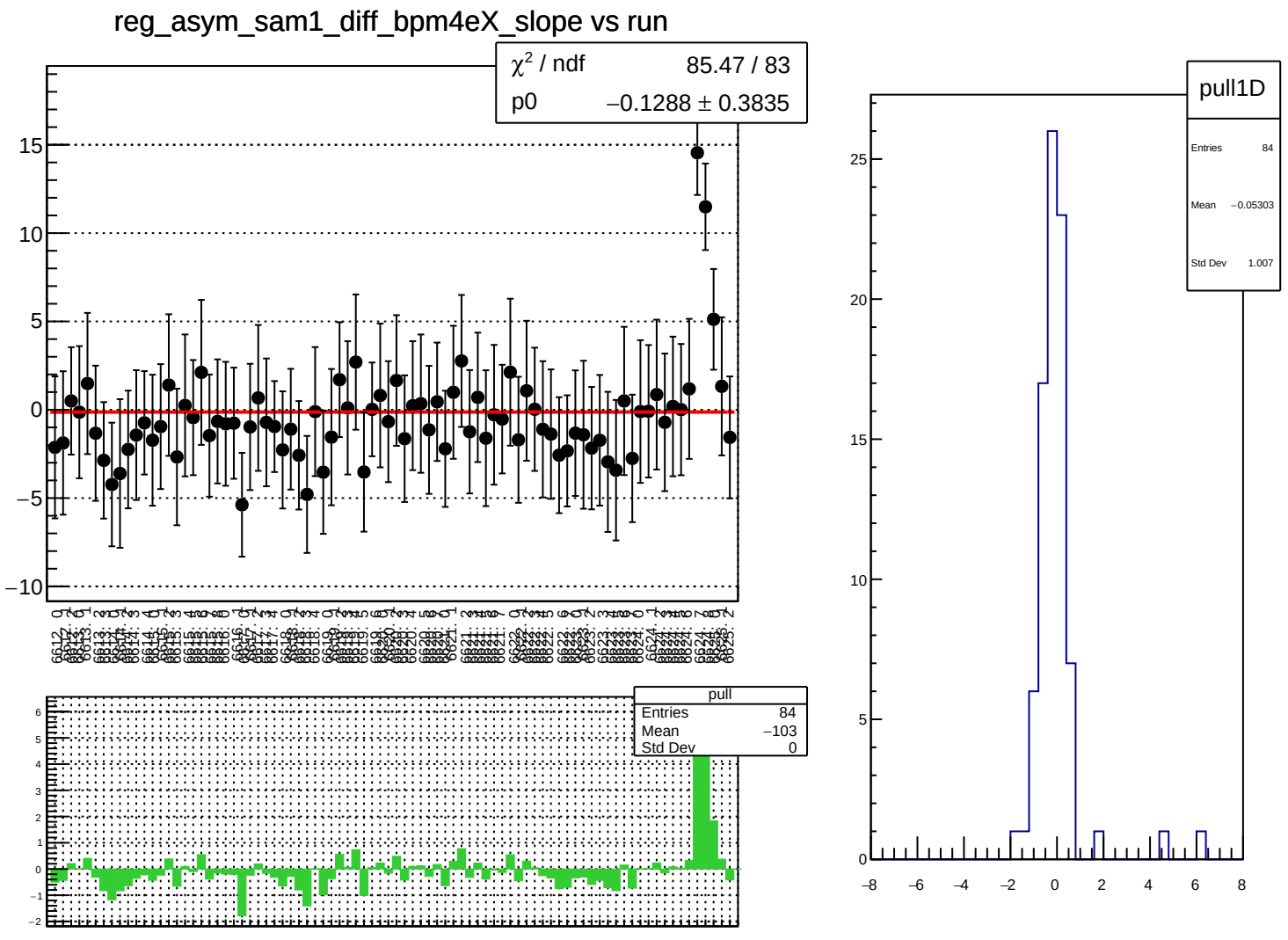

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.64 / 83
p0 −1.026e−15 ± 1.13e−14
pull
Entries 84
Mean 61.03
Std Dev 6.31

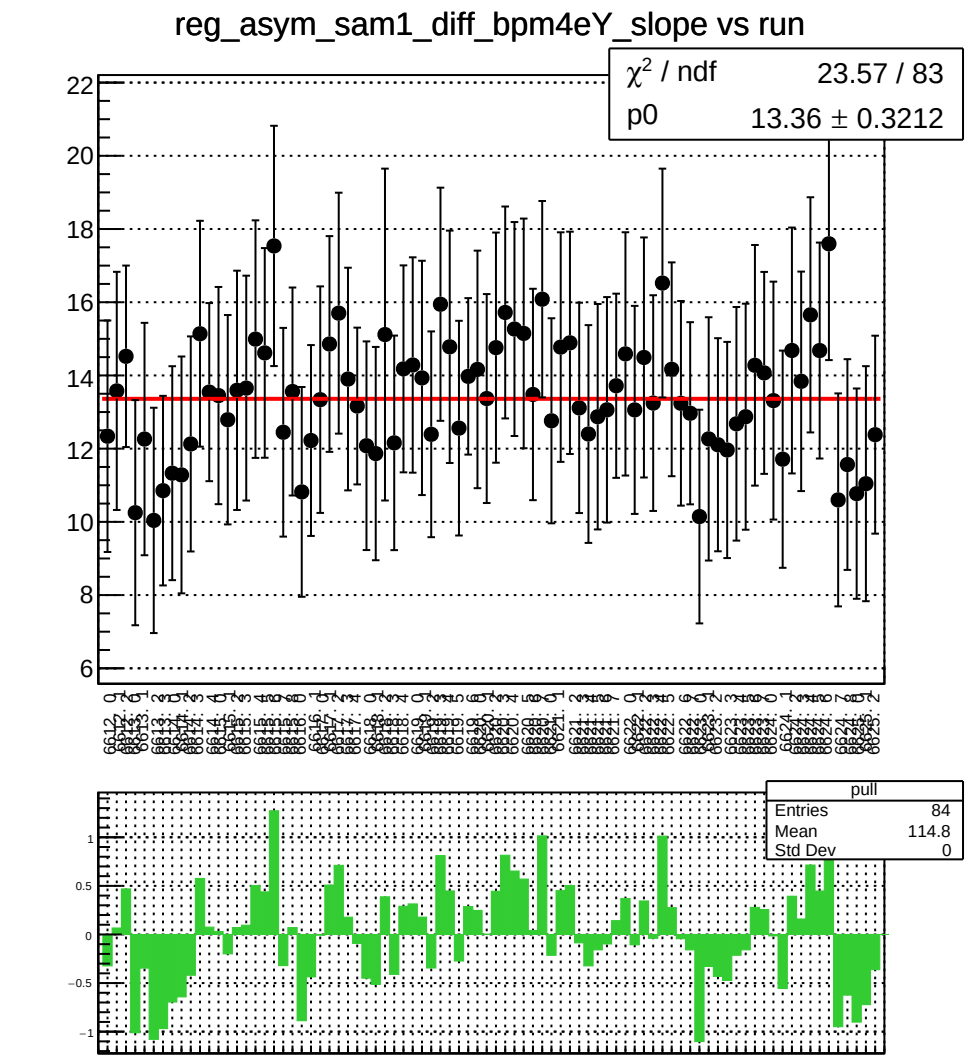

pull1D
Entries 84
Mean −0.02617
Std Dev 0.9036

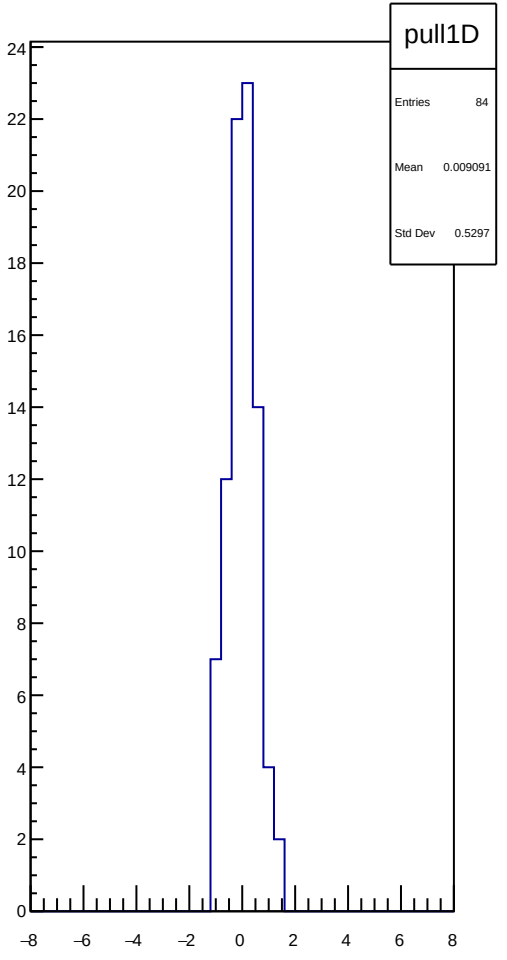

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.098e+05 / 83
p0 8.469e−12 ± 7.992e−15
50
40
30
20
10

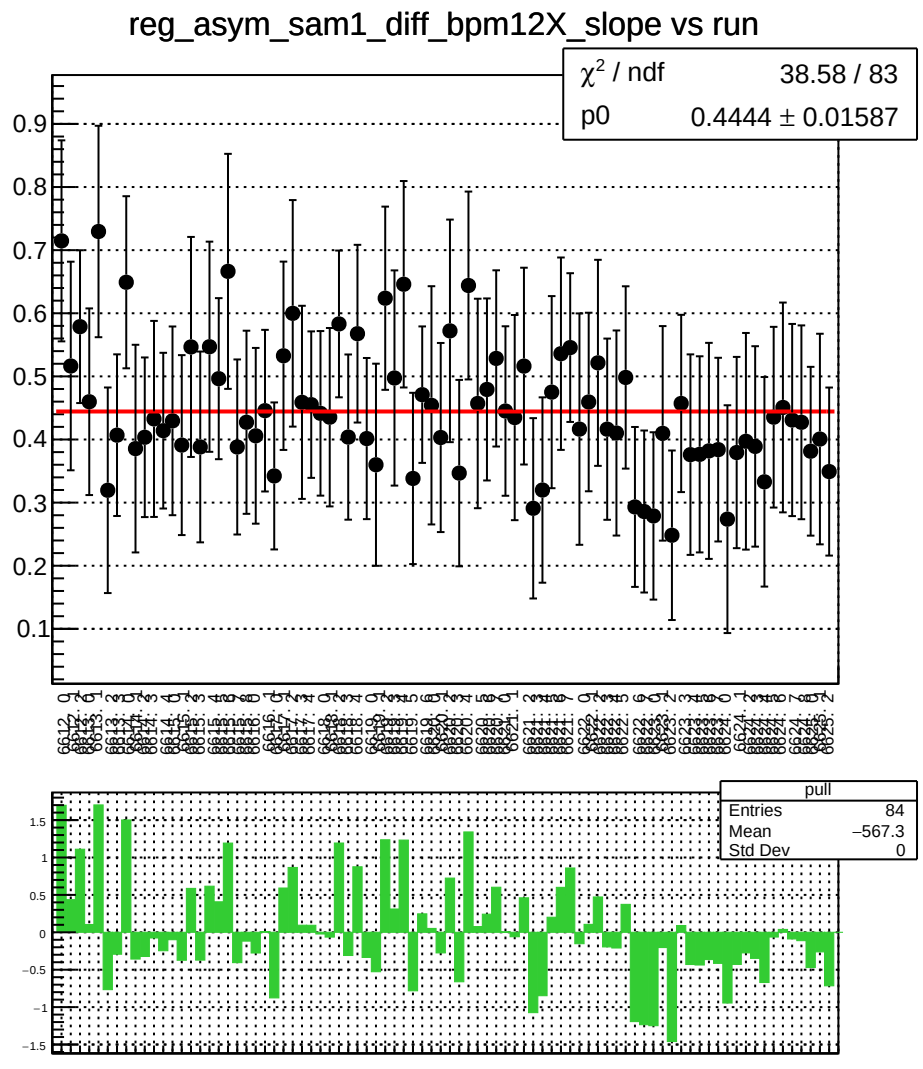

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 87.36 / 83
p0 −7.469 ± 0.3727
pull
Entries 84
Mean −99.8
Std Dev 0
pull1D
Entries 84
Mean 0.05497
Std Dev 1.018

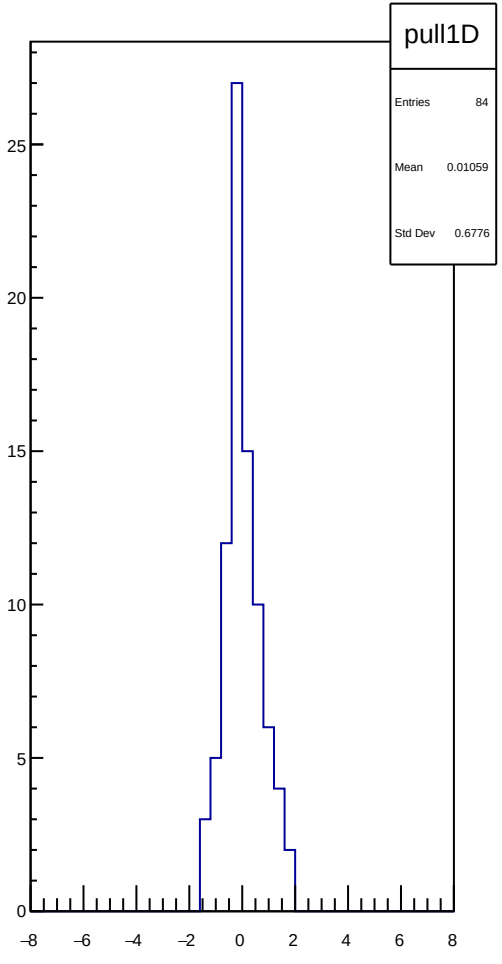

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 15.8 / 83
p0 −56.2 ± 0.273
pull
Entries 84
Mean 18.17
Std Dev 0
pull1D
Entries 84
Mean −0.004694
Std Dev 0.4337

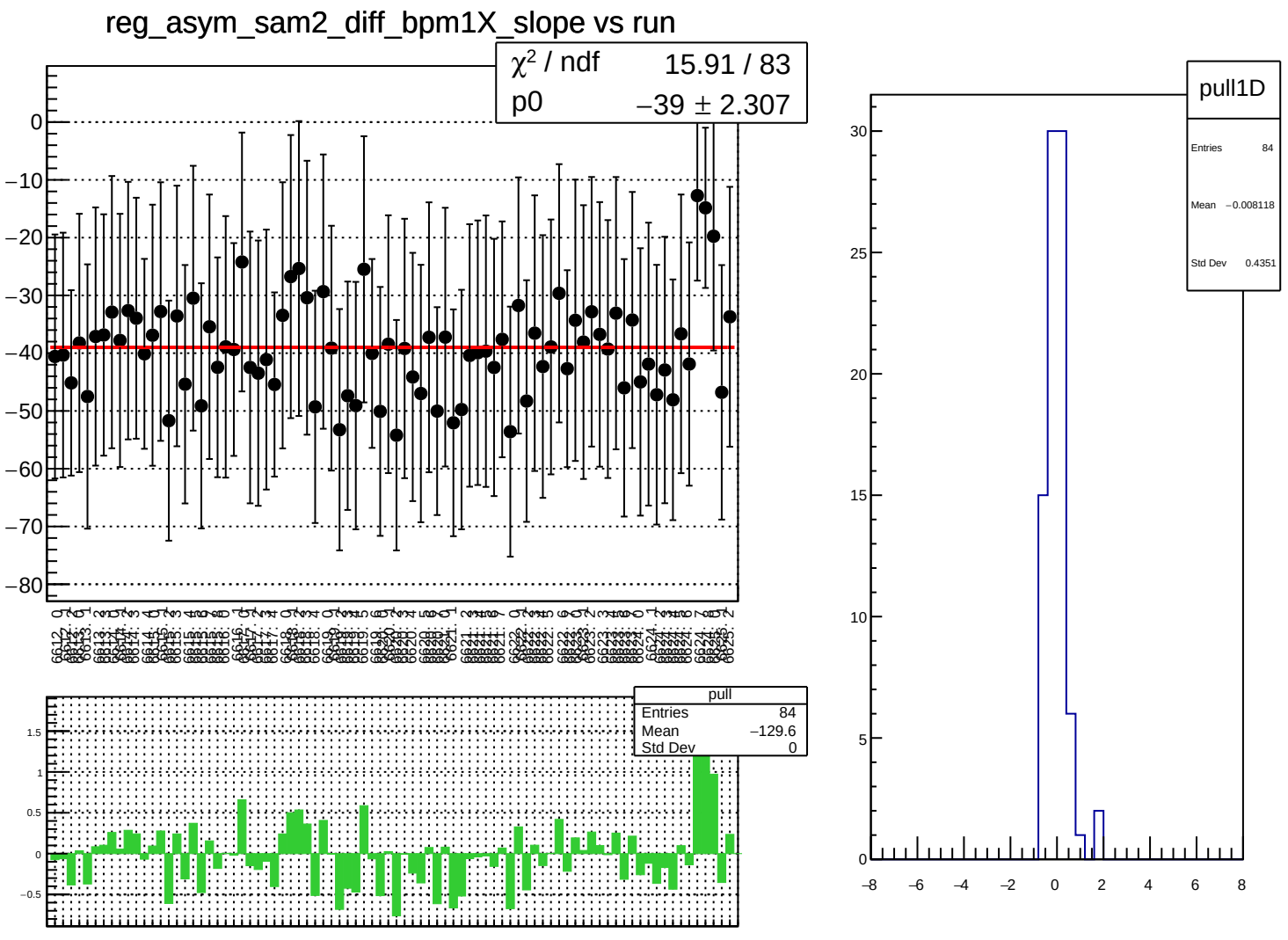

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 85.47 / 83
p0 −0.1288 ± 0.3835
pull
Entries 84
Mean −103
Std Dev 0
pull1D
Entries 84
Mean −0.05303
Std Dev 1.007

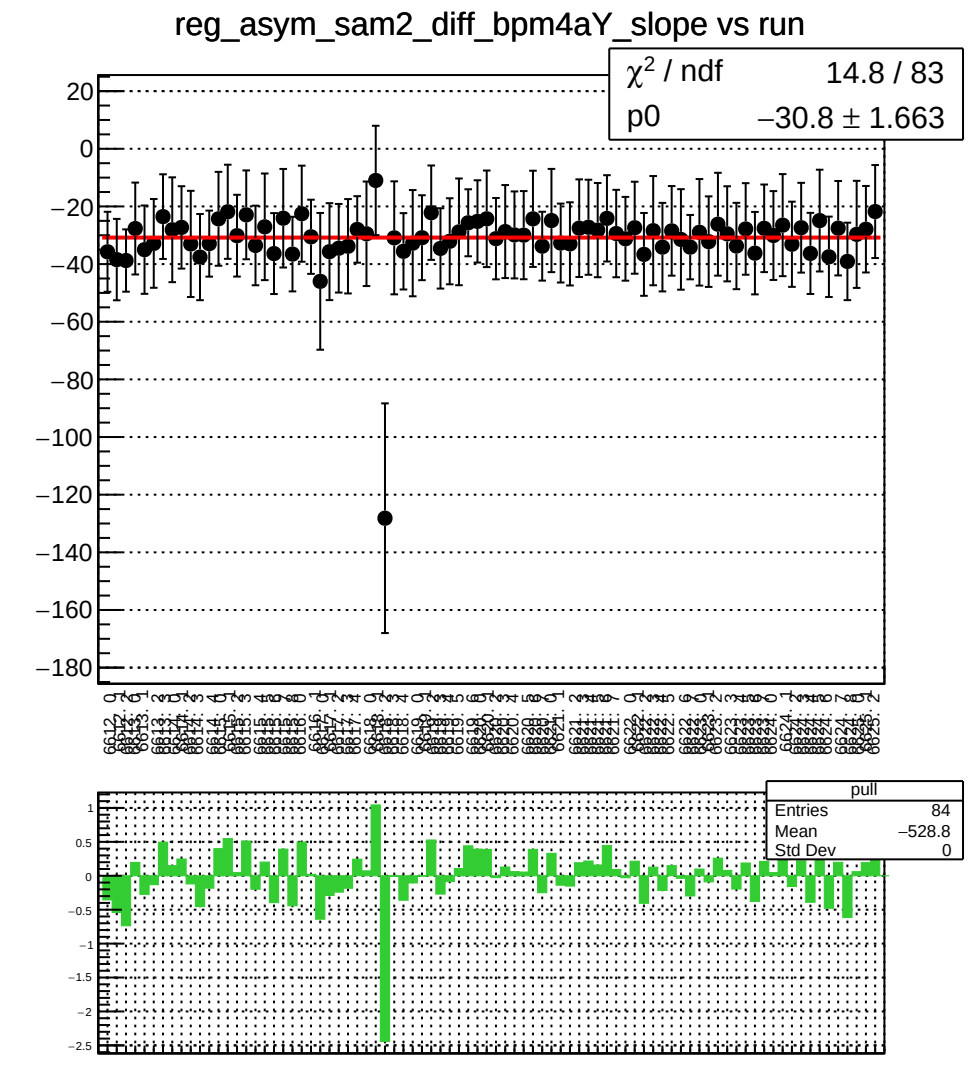

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 23.57 / 83
p0 13.36 ± 0.3212
pull
Entries 84
Mean 114.8
Std Dev 0

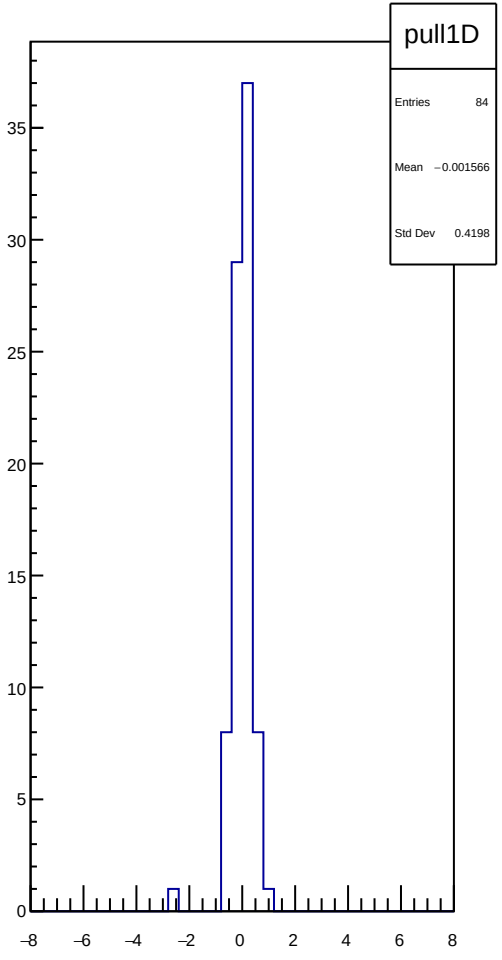

pull1D
Entries 84
Mean 0.009091
Std Dev 0.5297

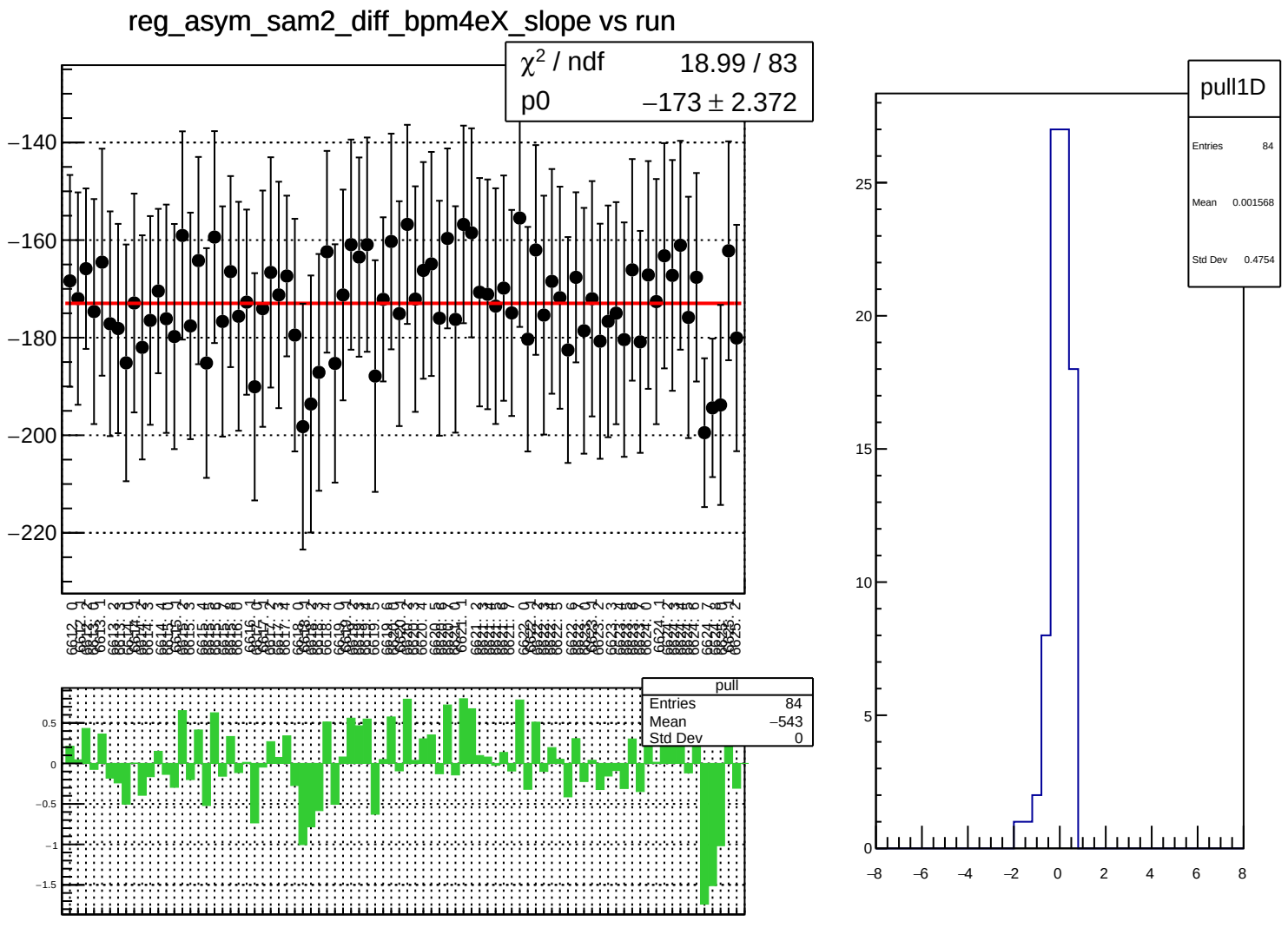

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 38.58 / 83
p0 0.4444 ± 0.01587
pull
Entries 84
Mean −567.3
Std Dev 0

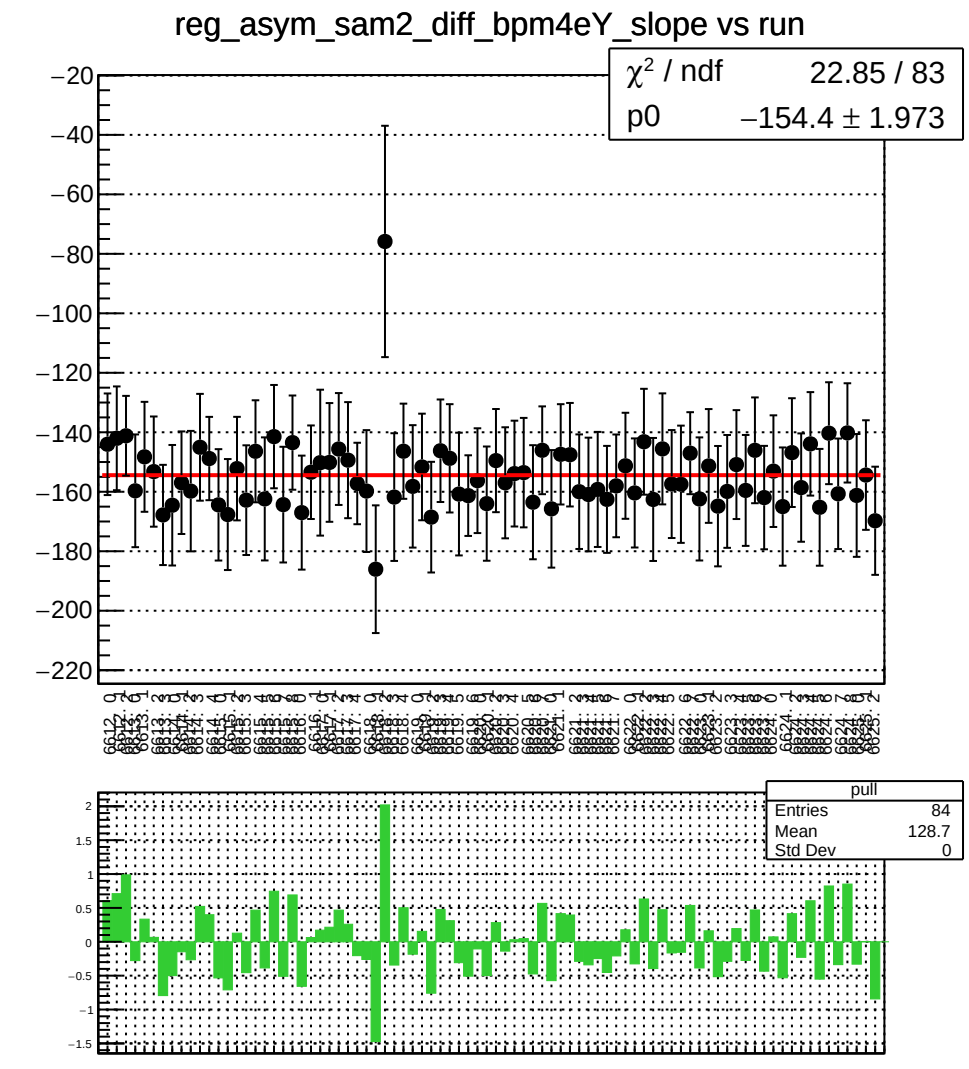

pull1D
Entries 84
Mean 0.01059
Std Dev 0.6776

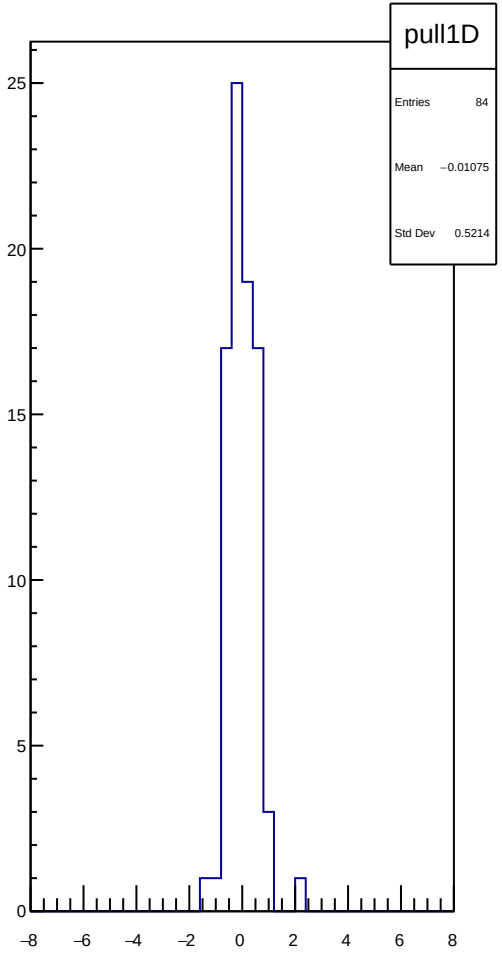

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 15.91 / 83
p0 −39 ± 2.307
pull
Entries 84
Mean −129.6
Std Dev 0
pull1D
Entries 84
Mean −0.008118
Std Dev 0.4351

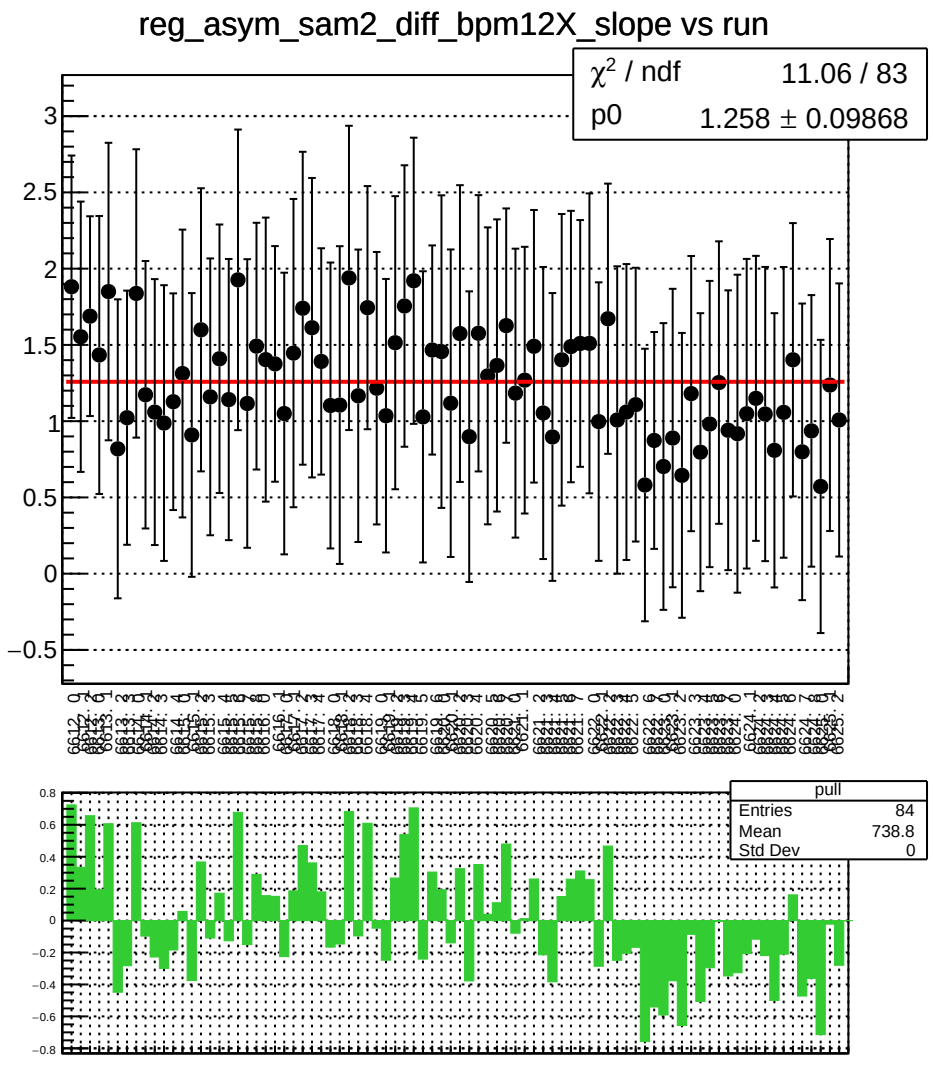

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 14.8 / 83
p0 −30.8 ± 1.663
pull
Entries 84
Mean −528.8
Std Dev 0

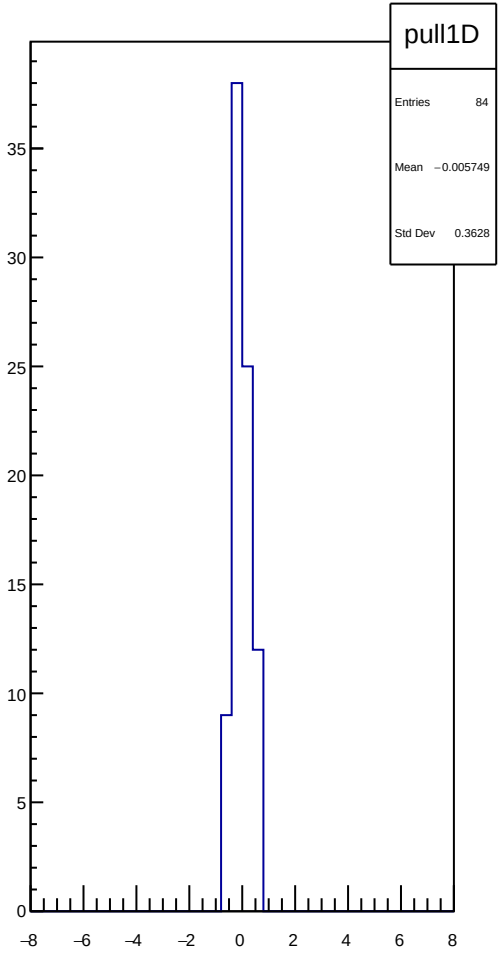

pull1D
Entries 84
Mean −0.001566
Std Dev 0.4198

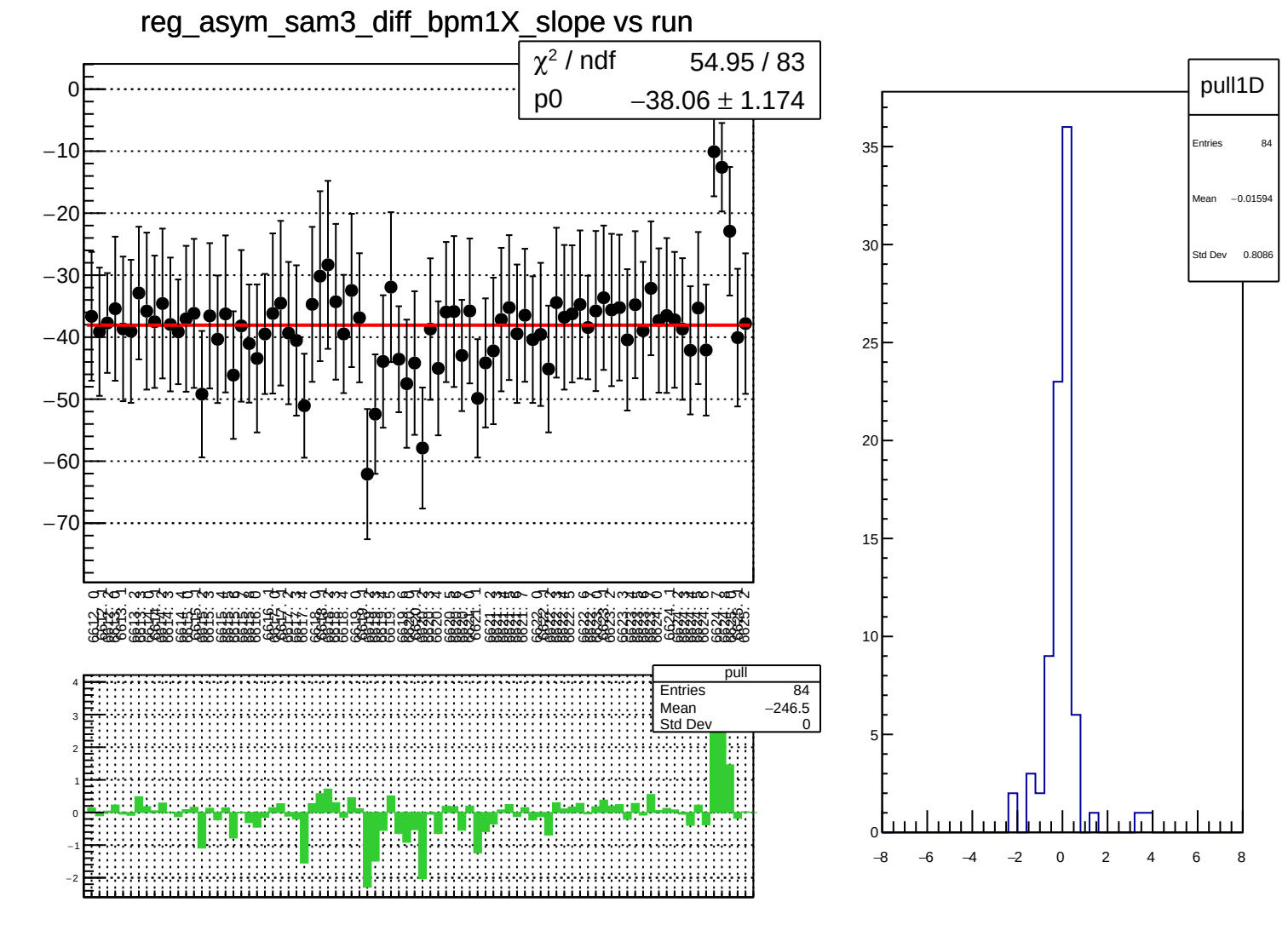

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 18.99 / 83
p0 −173 ± 2.372
−140
−160
−180
−200
−220
pull
Entries 84
Mean −543
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.001568
Std Dev 0.4754
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

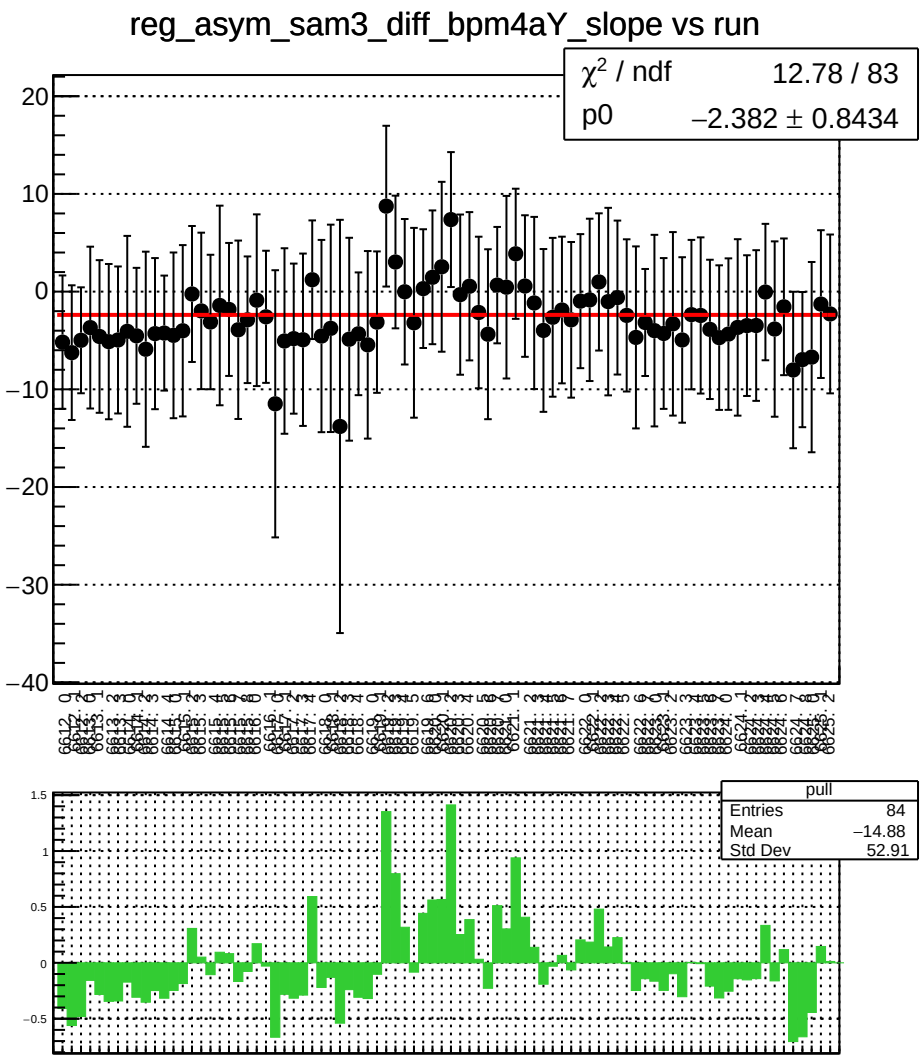

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 22.85 / 83
p0 −154.4 ± 1.973
pull
Entries 84
Mean 128.7
Std Dev 0

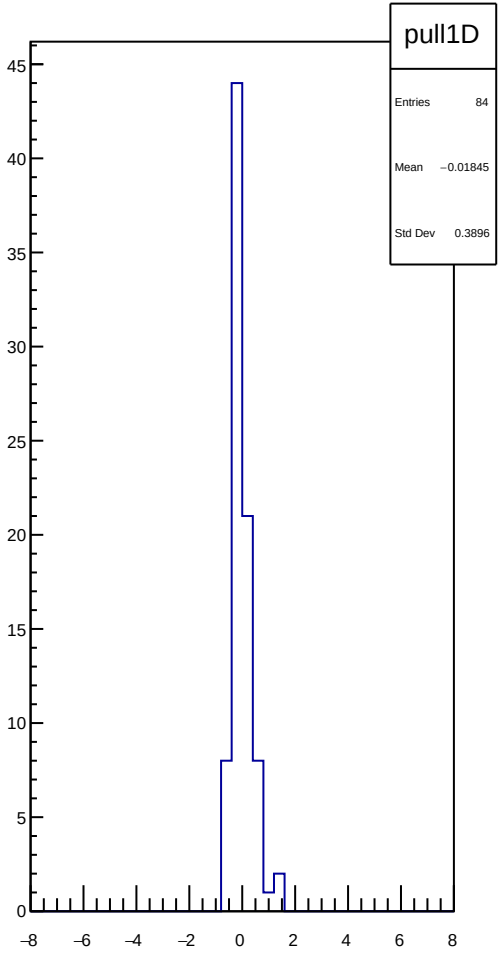

pull1D
Entries 84
Mean −0.01075
Std Dev 0.5214

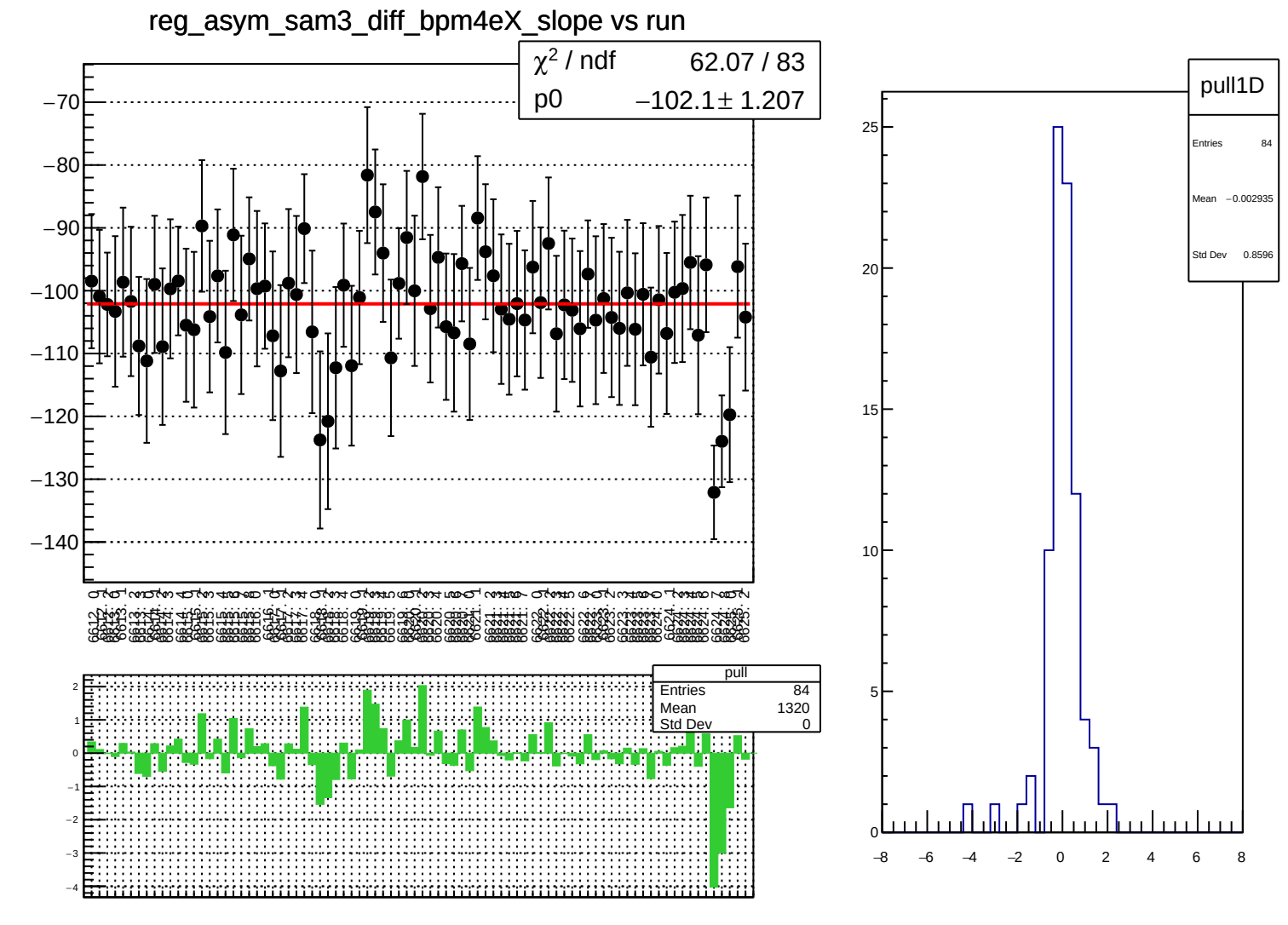

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 11.06 / 83
p0 1.258 ± 0.09868
pull
Entries 84
Mean 738.8
Std Dev 0

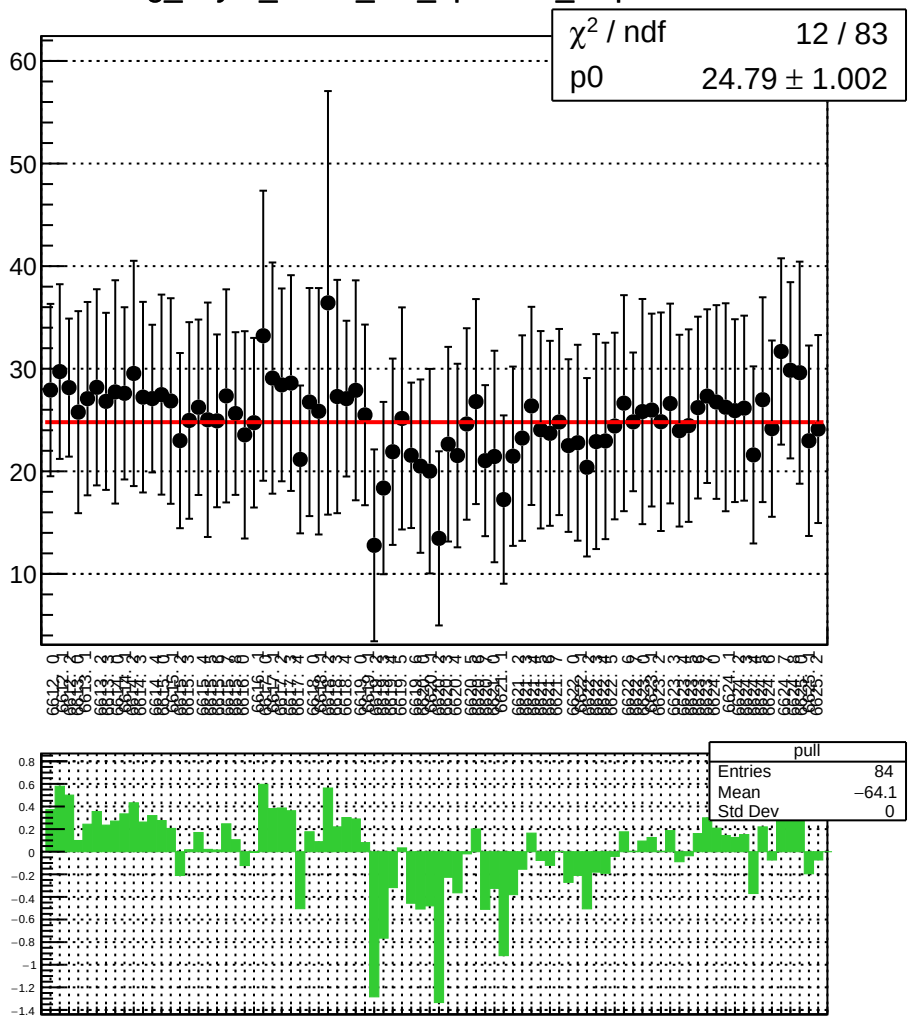

pull1D
Entries 84
Mean −0.005749
Std Dev 0.3628

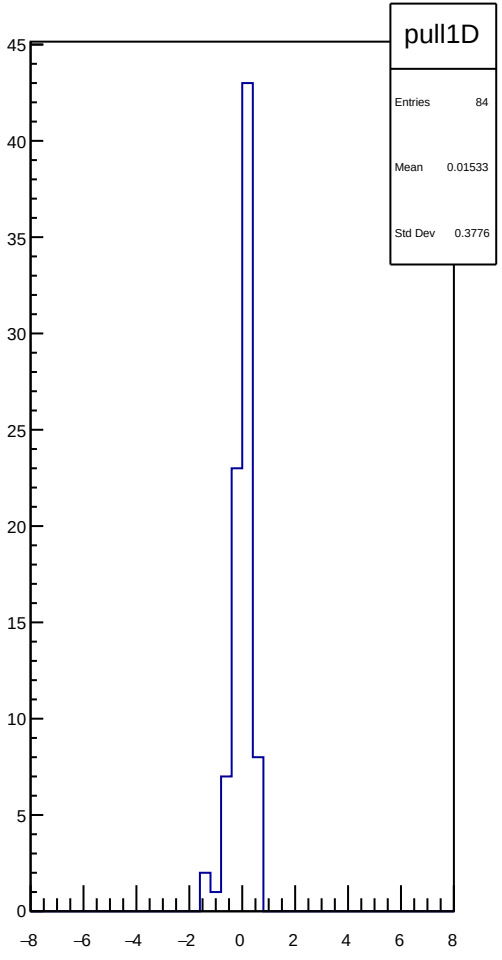

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 54.95 / 83
p0 −38.06 ± 1.174
pull
Entries 84
Mean −246.5
Std Dev 0
pull1D
Entries 84
Mean −0.01594
Std Dev 0.8086

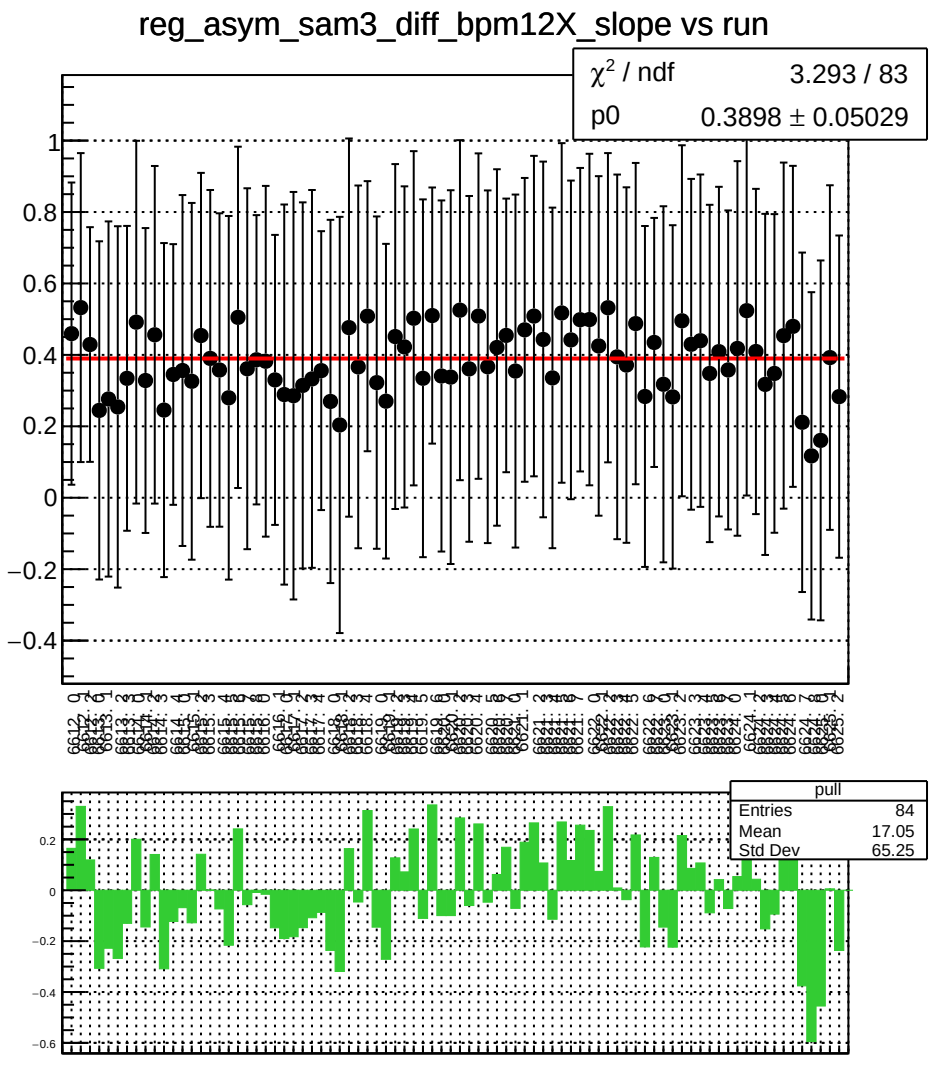

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 12.78 / 83
p0 −2.382 ± 0.8434
pull
Entries 84
Mean −14.88
Std Dev 52.91

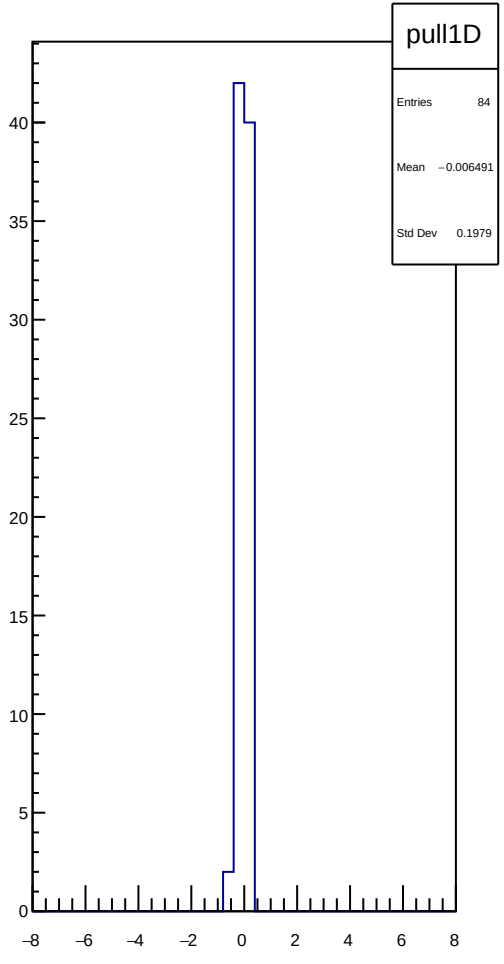

pull1D
Entries 84
Mean −0.01845
Std Dev 0.3896

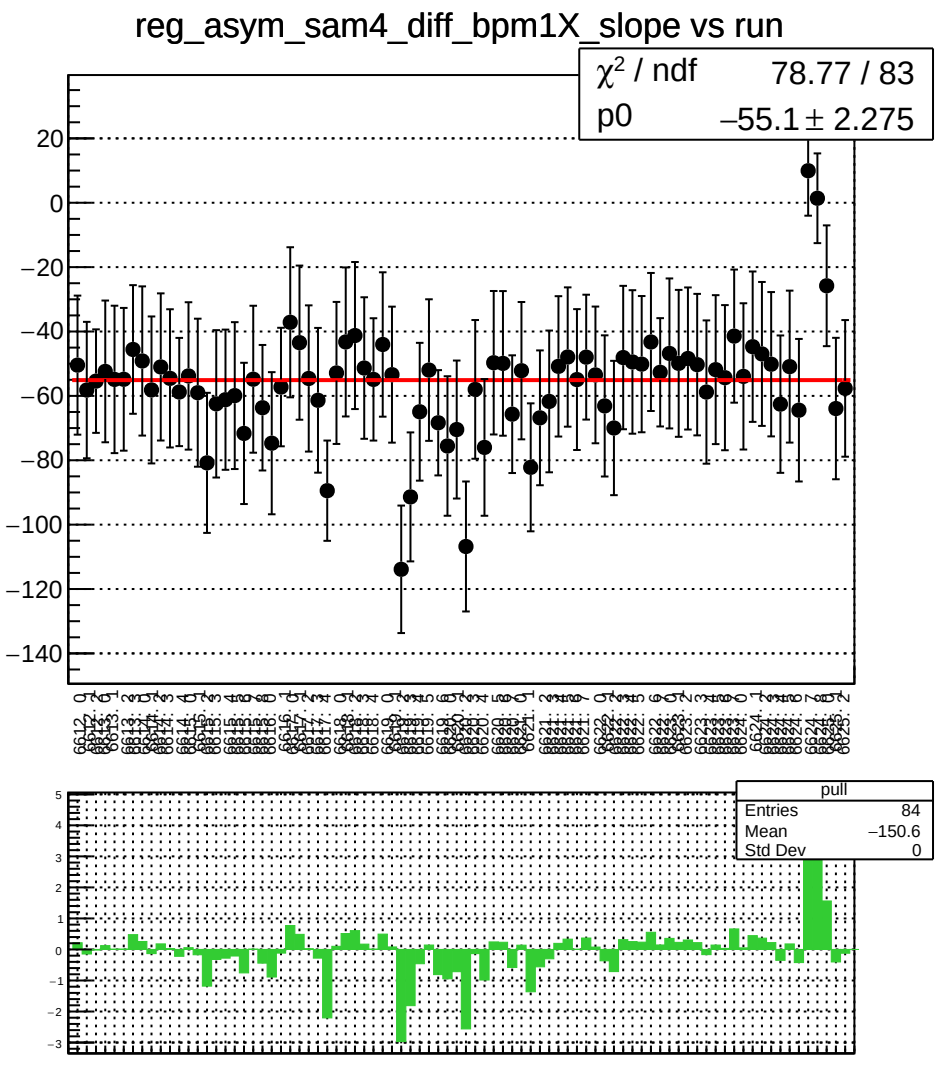

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 62.07 / 83
p0 −102.1± 1.207
pull
Entries 84
Mean 1320
Std Dev 0
pull1D
Entries 84
Mean −0.002935
Std Dev 0.8596

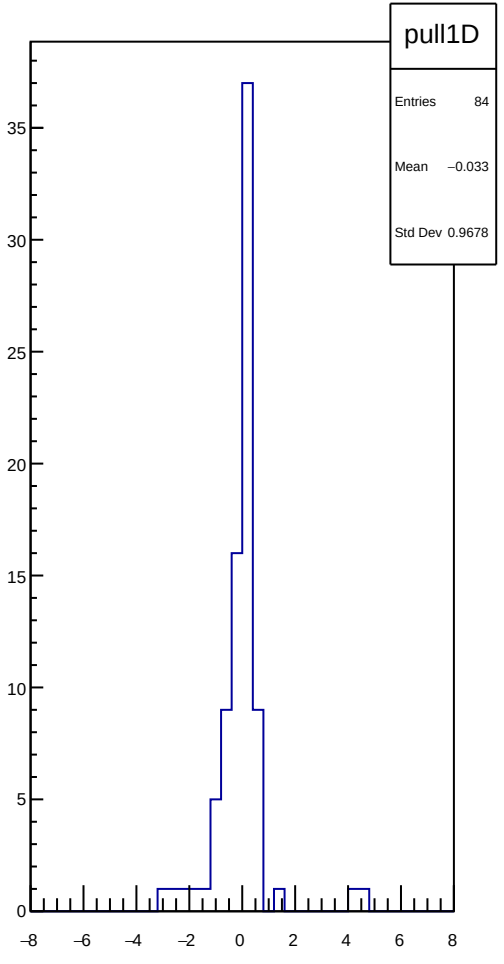

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 12 / 83
p0 24.79 ± 1.002
pull
Entries 84
Mean −64.1
Std Dev 0

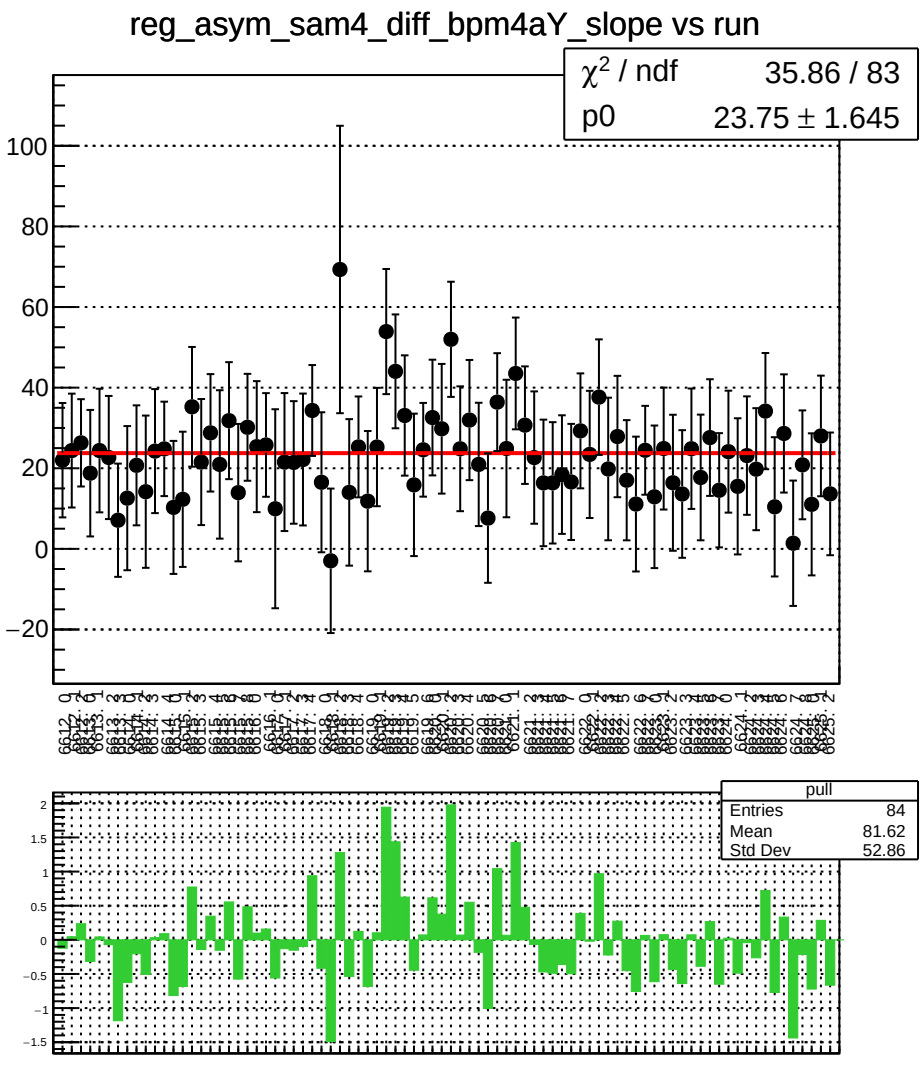

pull1D
Entries 84
Mean 0.01533
Std Dev 0.3776

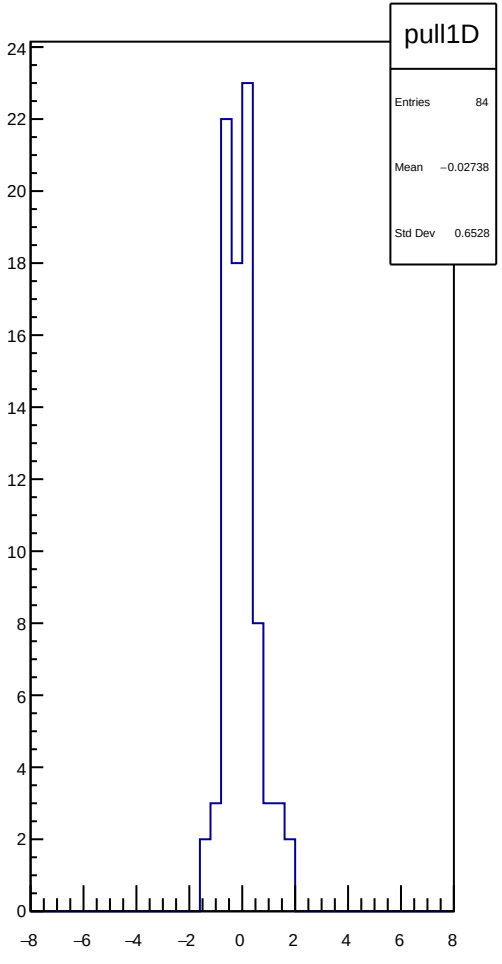

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 3.293 / 83
p0 0.3898 ± 0.05029
pull
Entries 84
Mean 17.05
Std Dev 65.25

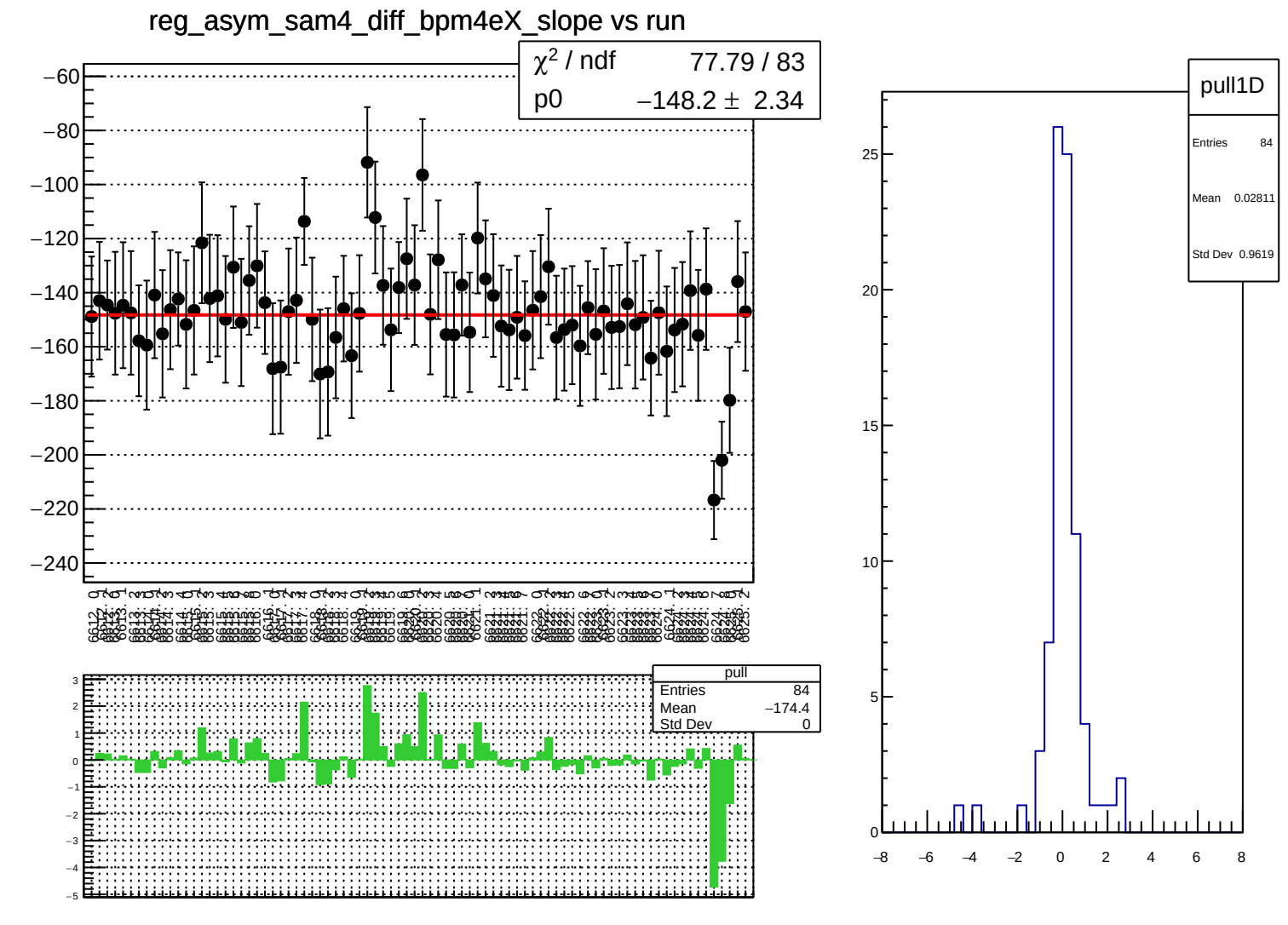

pull1D
Entries 84
Mean −0.006491
Std Dev 0.1979

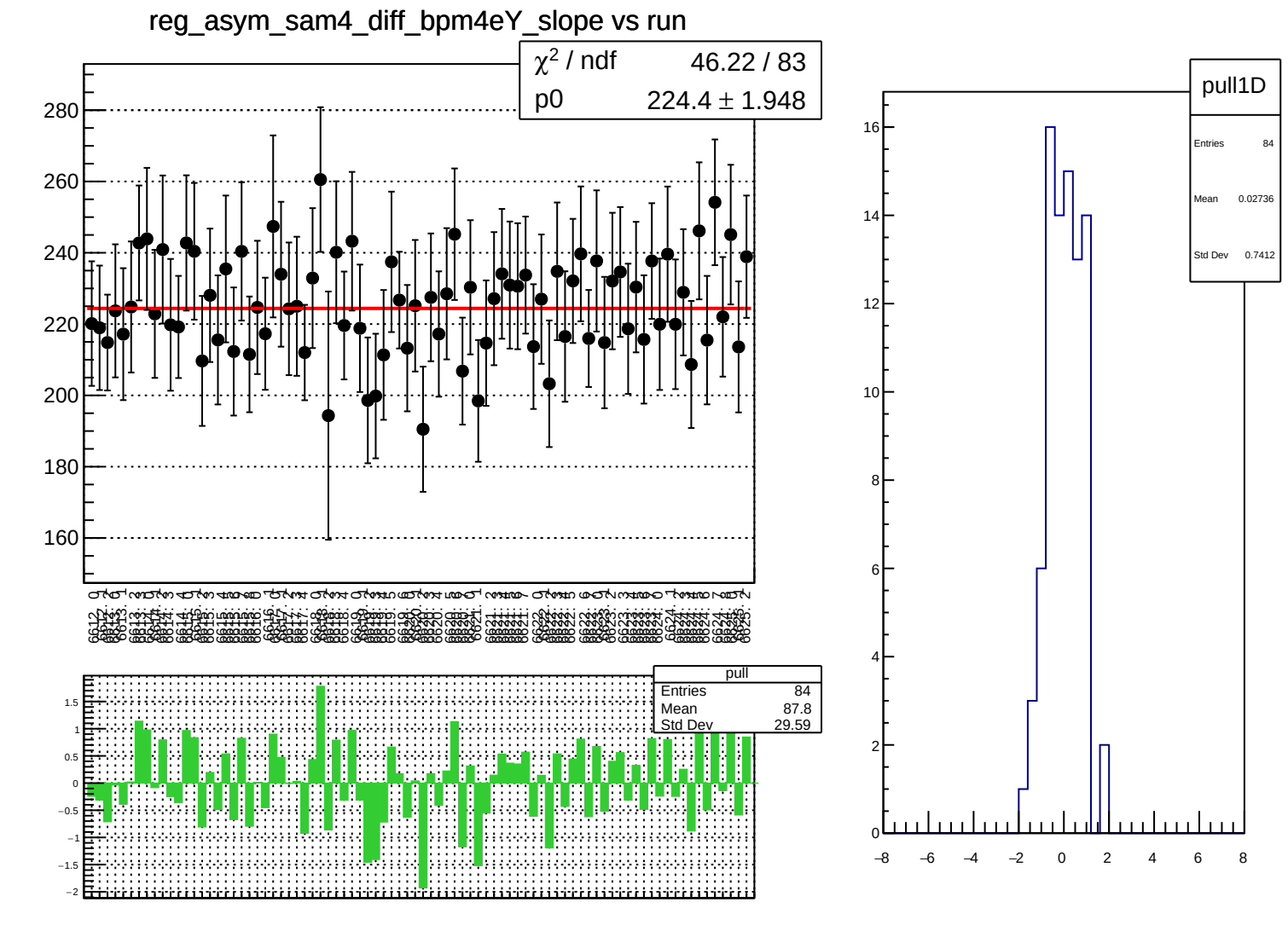

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 78.77 / 83
p0 −55.1 ± 2.275
pull
Entries 84
Mean −150.6
Std Dev 0

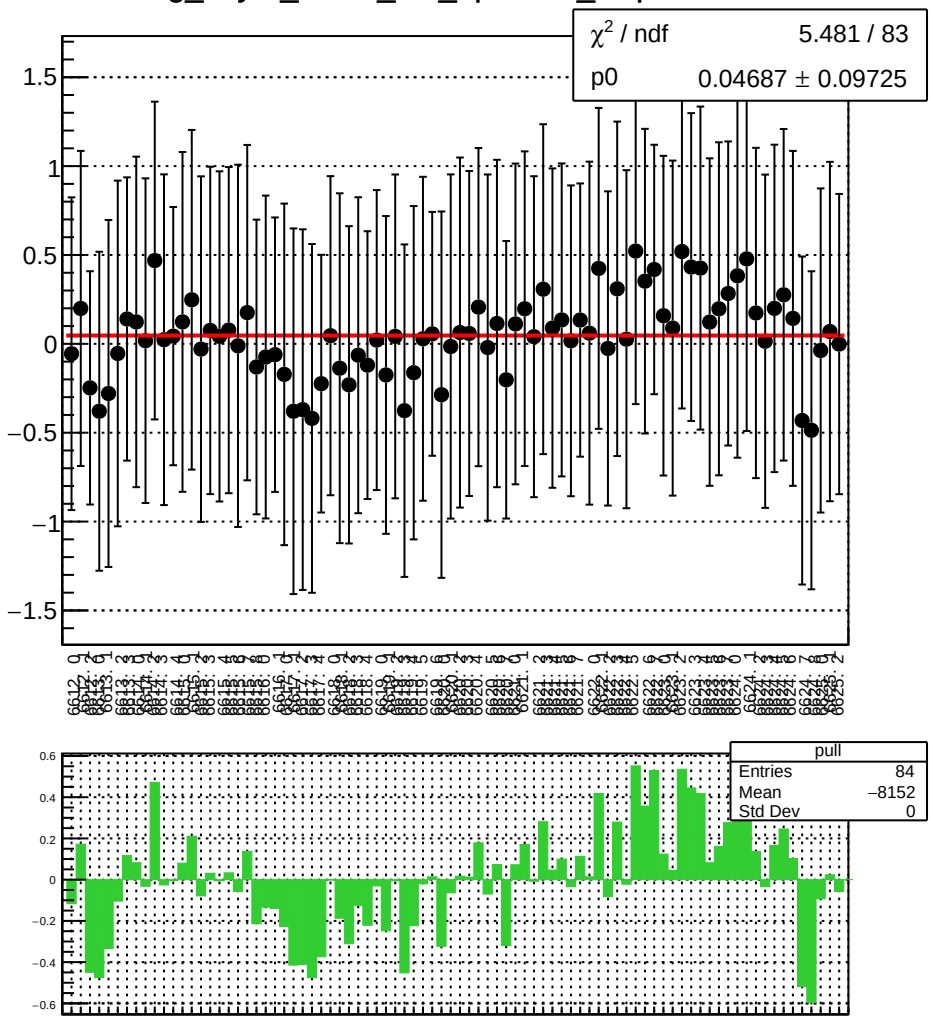

pull1D
Entries 84
Mean −0.033
Std Dev 0.9678

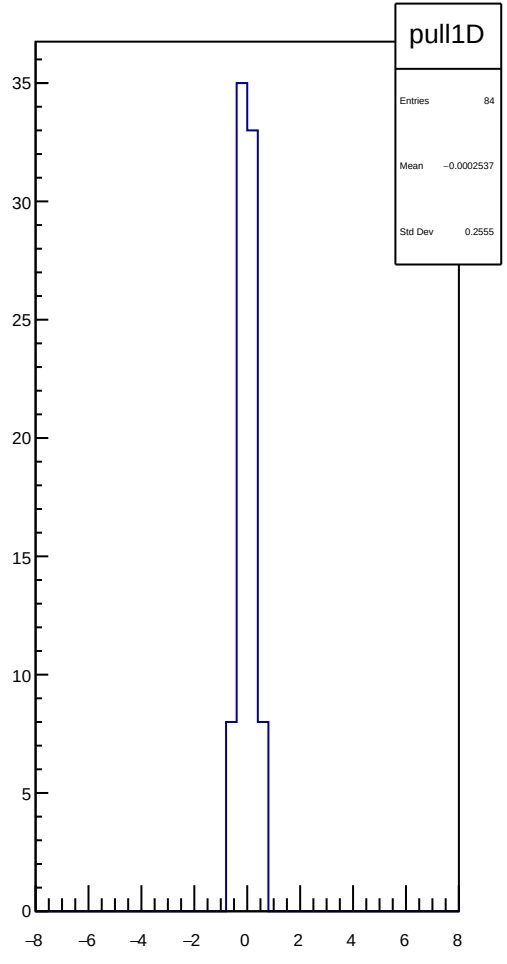

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 35.86 / 83
p0 23.75 ± 1.645
pull
Entries 84
Mean 81.62
Std Dev 52.86

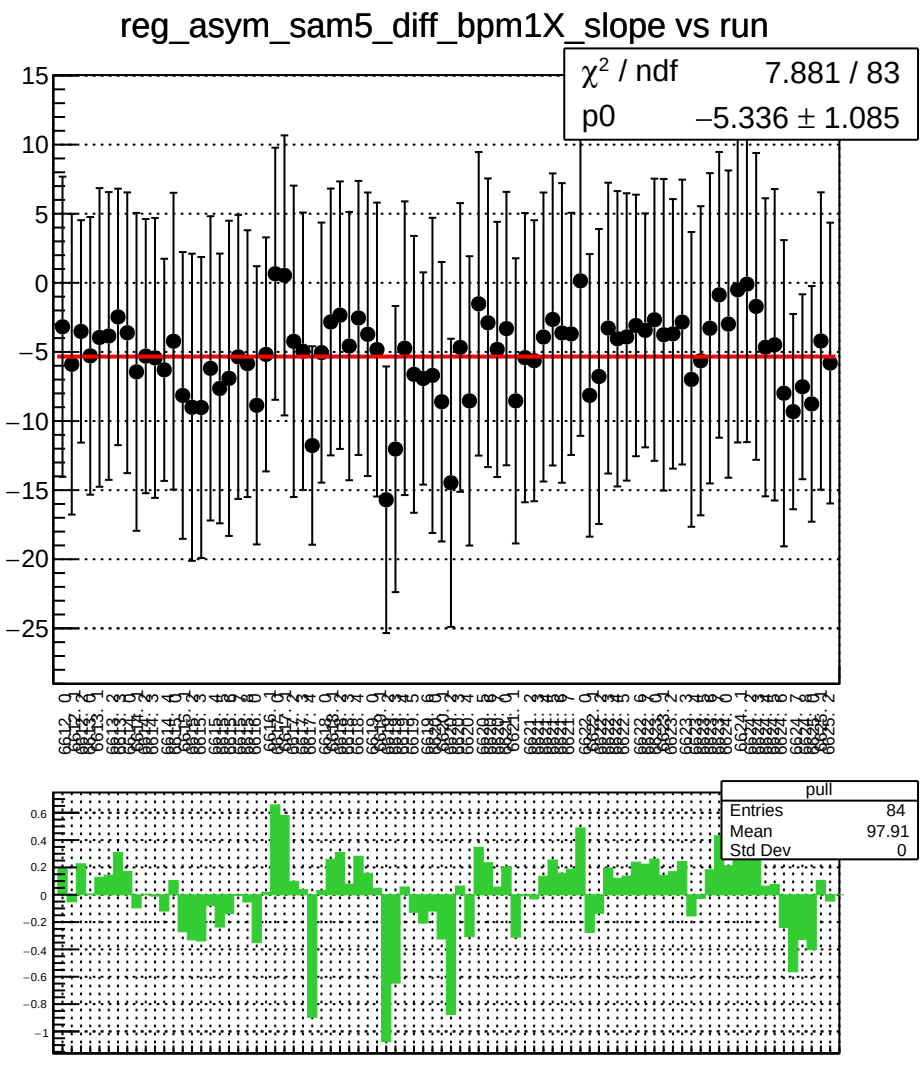

pull1D
Entries 84
Mean −0.02738
Std Dev 0.6528

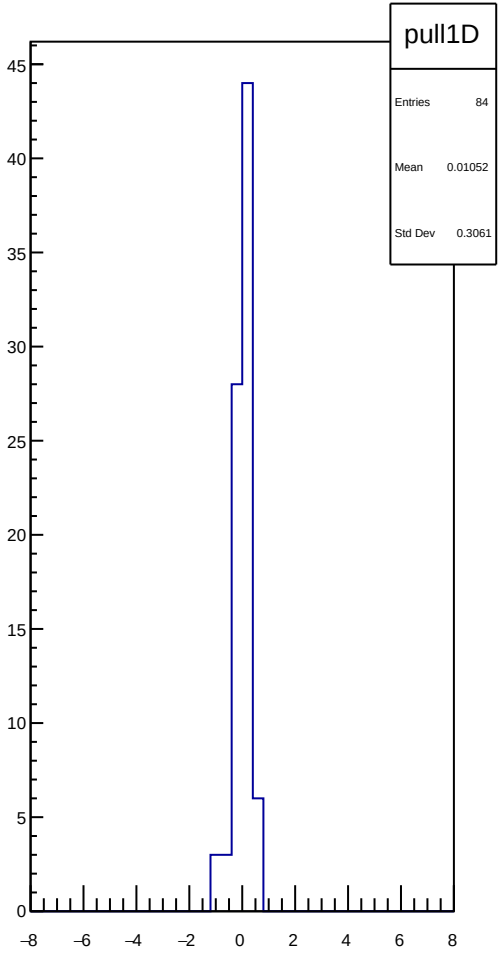

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 77.79 / 83
p0 −148.2 ± 2.34
pull
Entries 84
Mean −174.4
Std Dev 0
pull1D
Entries 84
Mean 0.02811
Std Dev 0.9619

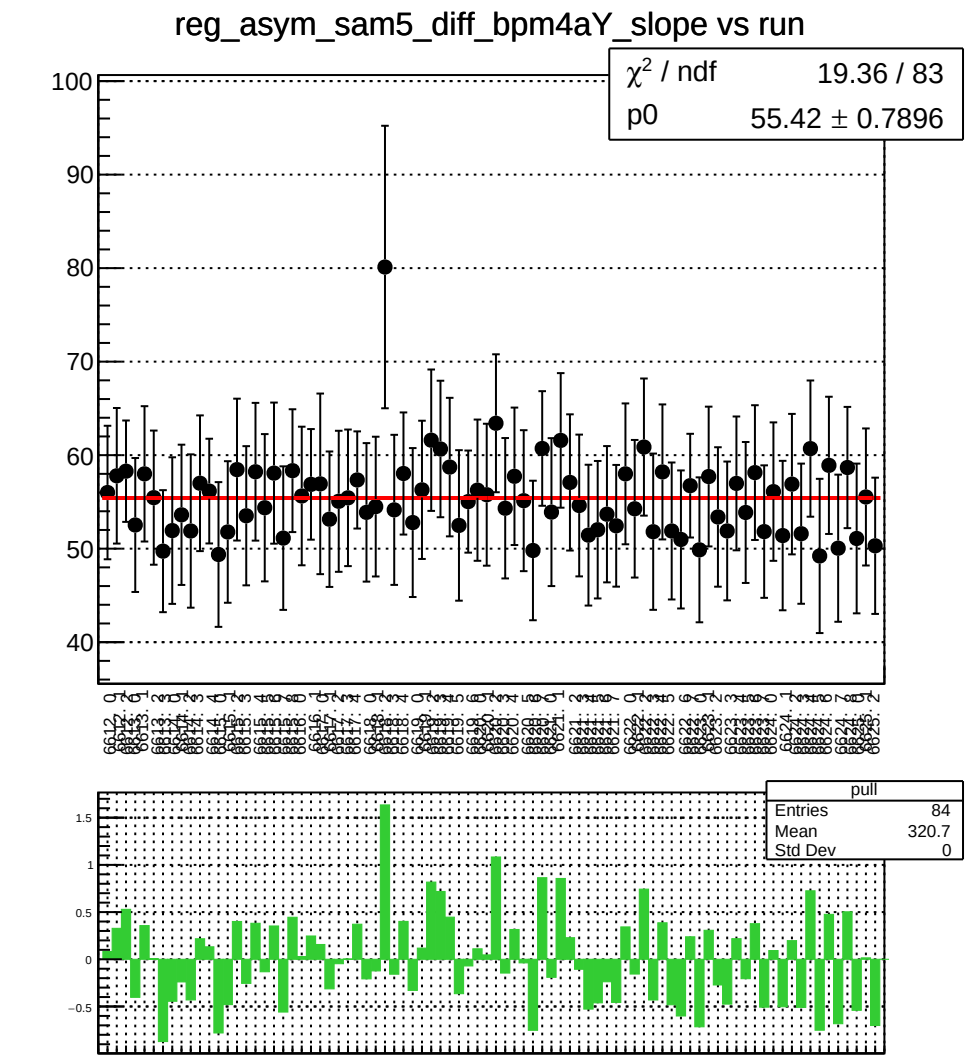

reg_asym_sam4_diff_bpm4eY_slope vs run
χ^2 / ndf 46.22 / 83
p0 224.4 ± 1.948
pull
Entries 84
Mean 87.8
Std Dev 29.59
pull1D
Entries 84
Mean 0.02736
Std Dev 0.7412

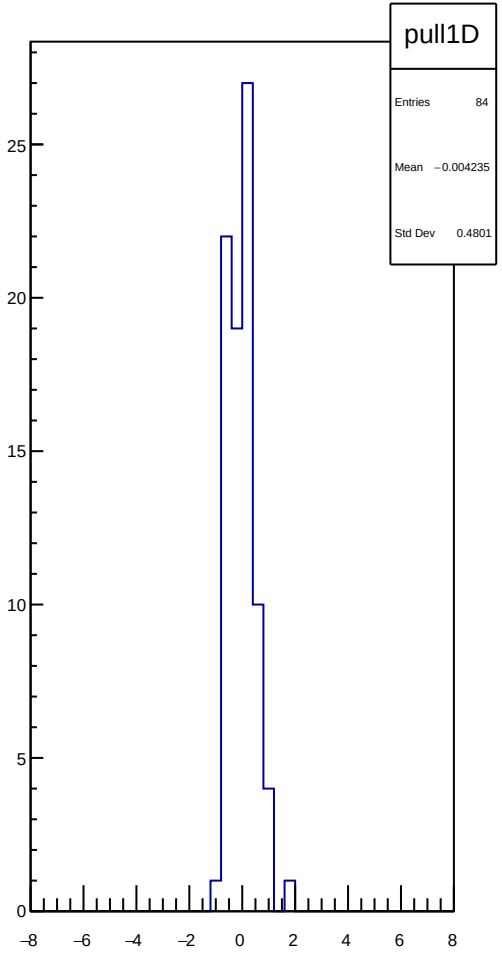

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 5.481 / 83
p0 0.04687 ± 0.09725
pull
Entries 84
Mean −8152
Std Dev 0

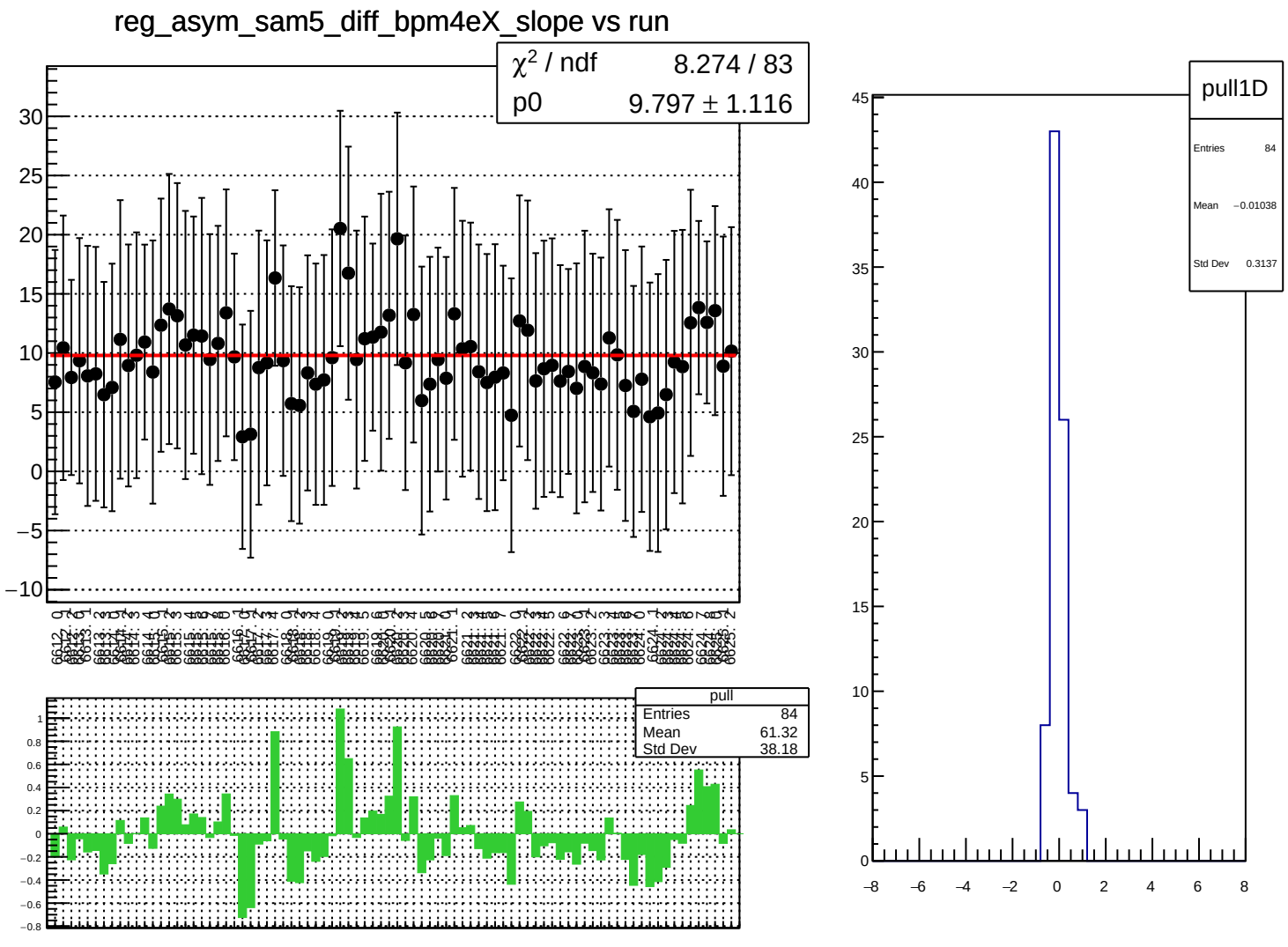

pull1D
Entries 84
Mean −0.0002537
Std Dev 0.2555

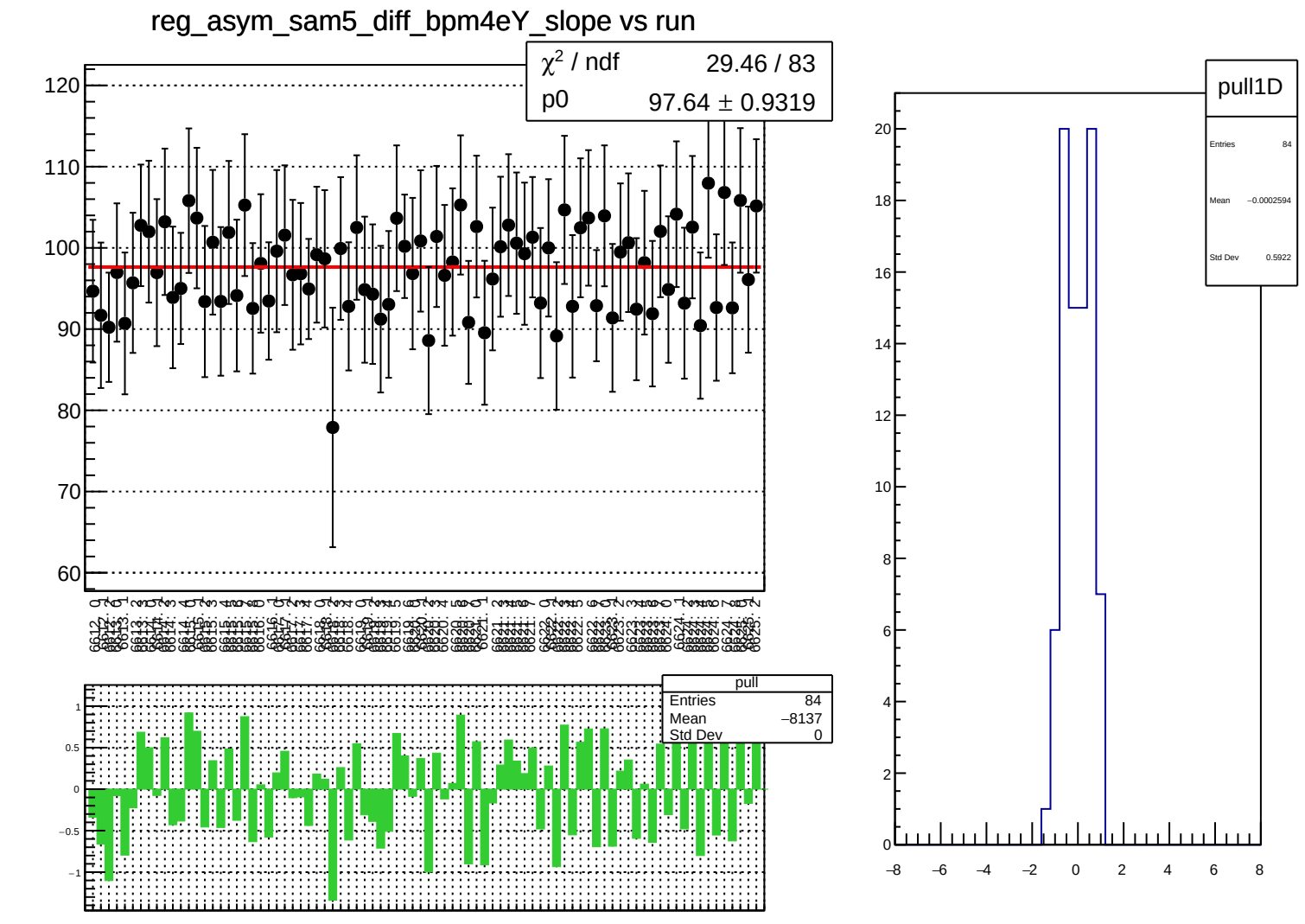

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 7.881 / 83
p0 −5.336 ± 1.085
pull
Entries 84
Mean 97.91
Std Dev 0

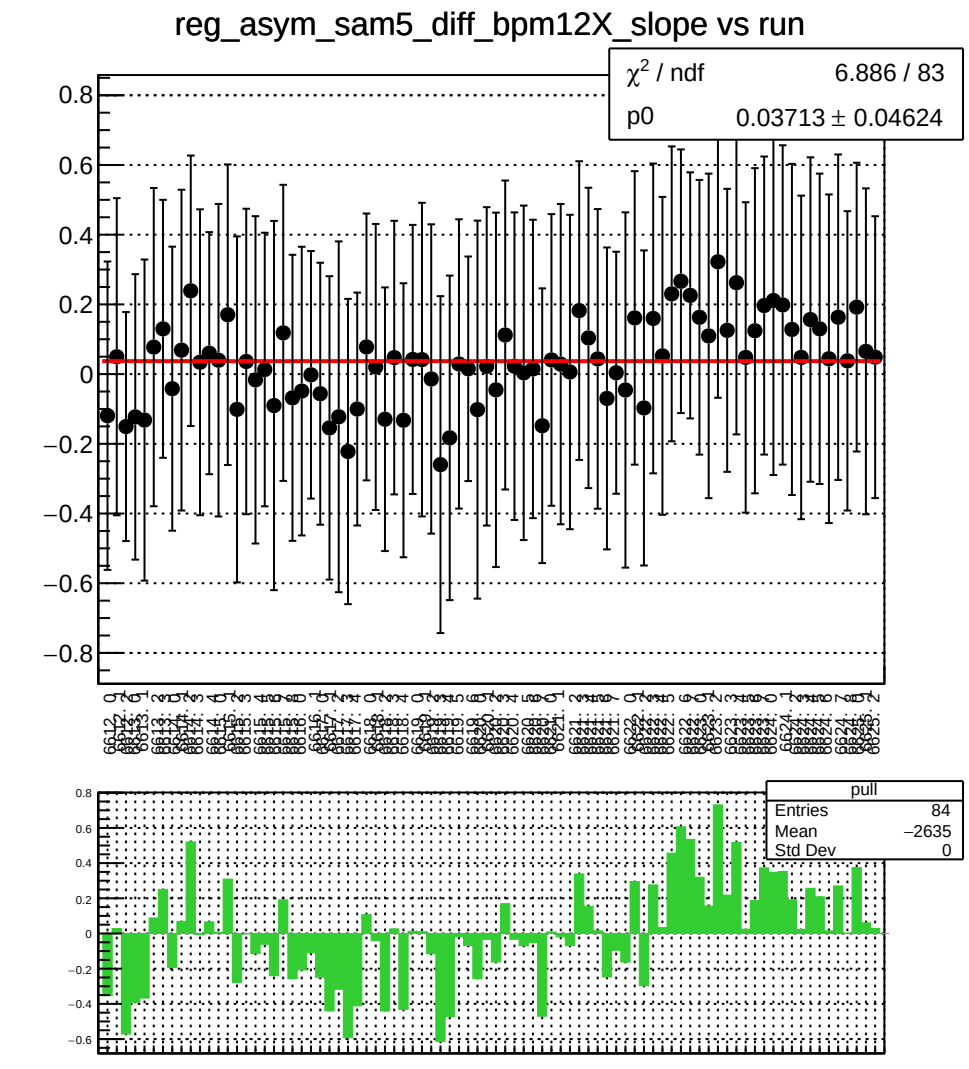

pull1D
Entries 84
Mean 0.01052
Std Dev 0.3061

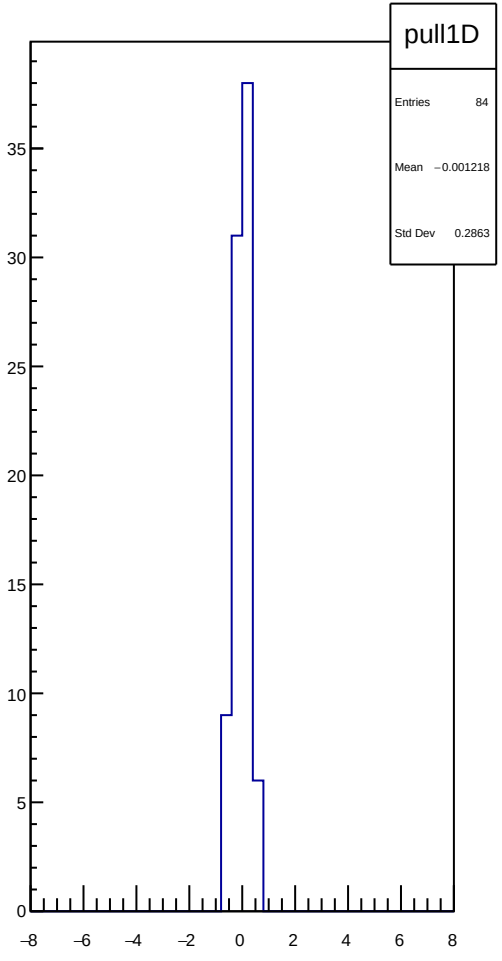

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 19.36 / 83
p0 55.42 ± 0.7896
pull
Entries 84
Mean 320.7
Std Dev 0

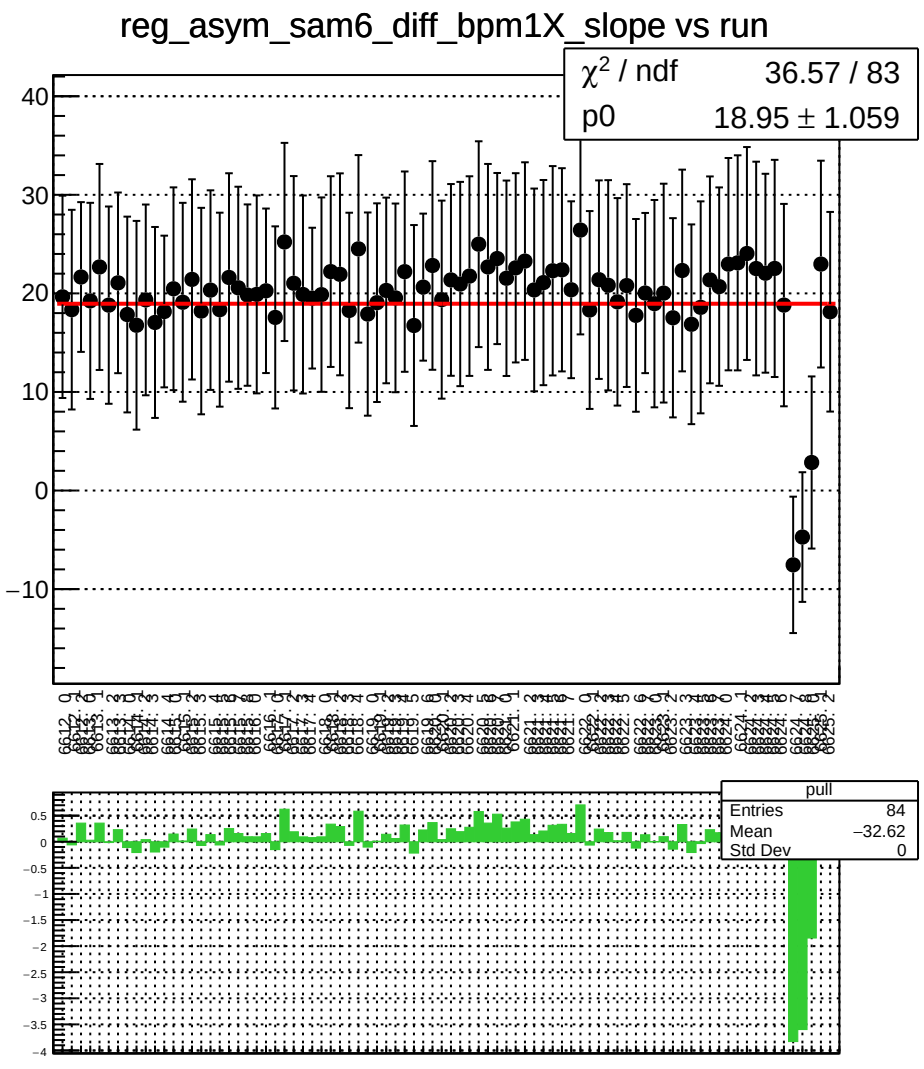

pull1D
Entries 84
Mean −0.004235
Std Dev 0.4801

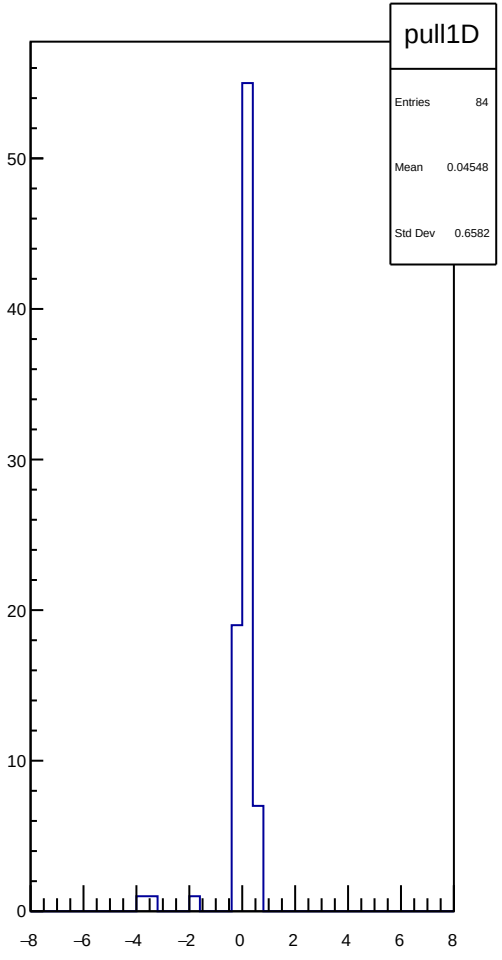

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 8.274 / 83
p0 9.797 ± 1.116
pull
Entries 84
Mean 61.32
Std Dev 38.18
pull1D
Entries 84
Mean −0.01038
Std Dev 0.3137

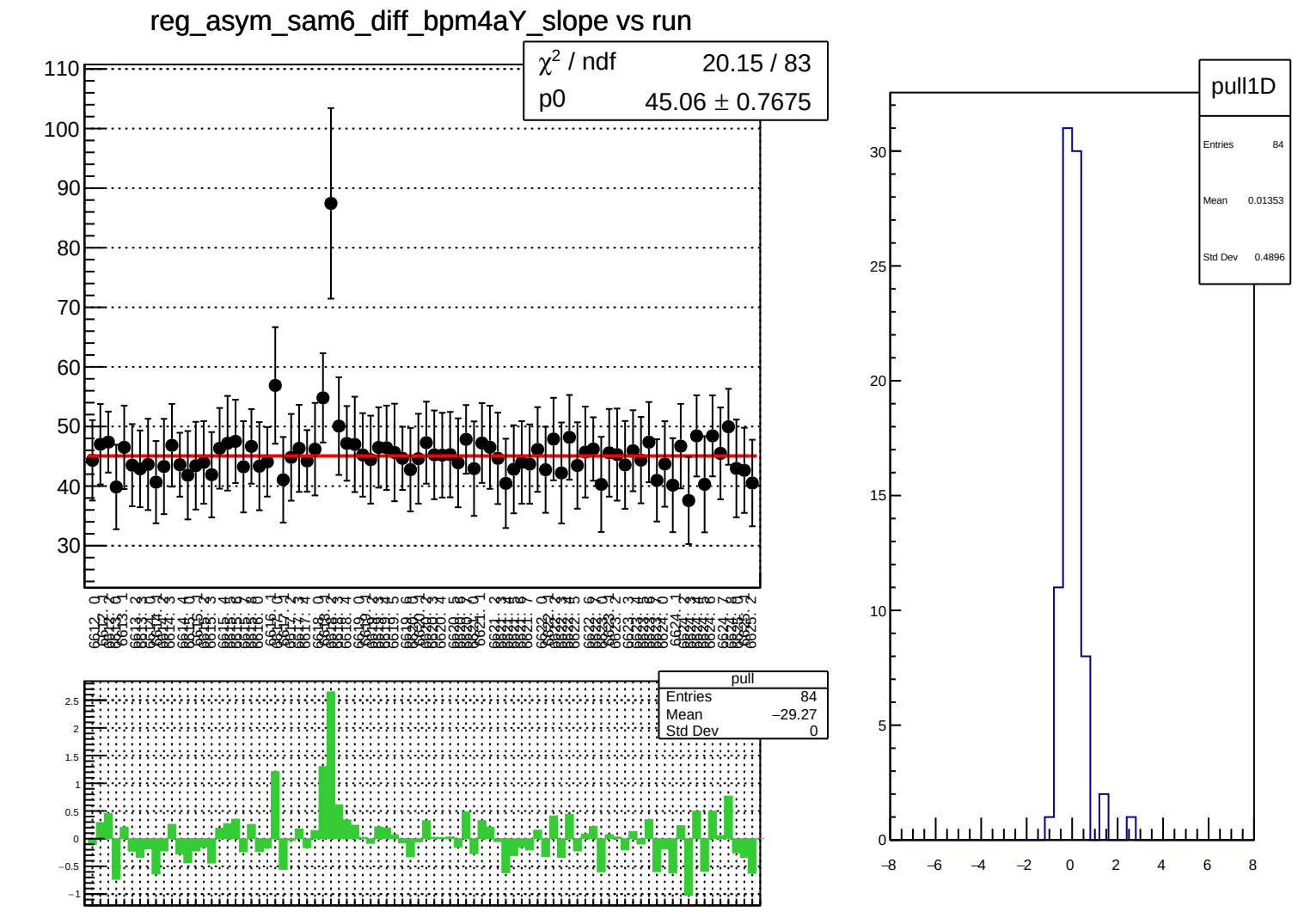

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 29.46 / 83
p0 97.64 ± 0.9319
pull
Entries 84
Mean −8137
Std Dev 0
pull1D
Entries 84
Mean −0.0002594
Std Dev 0.5922

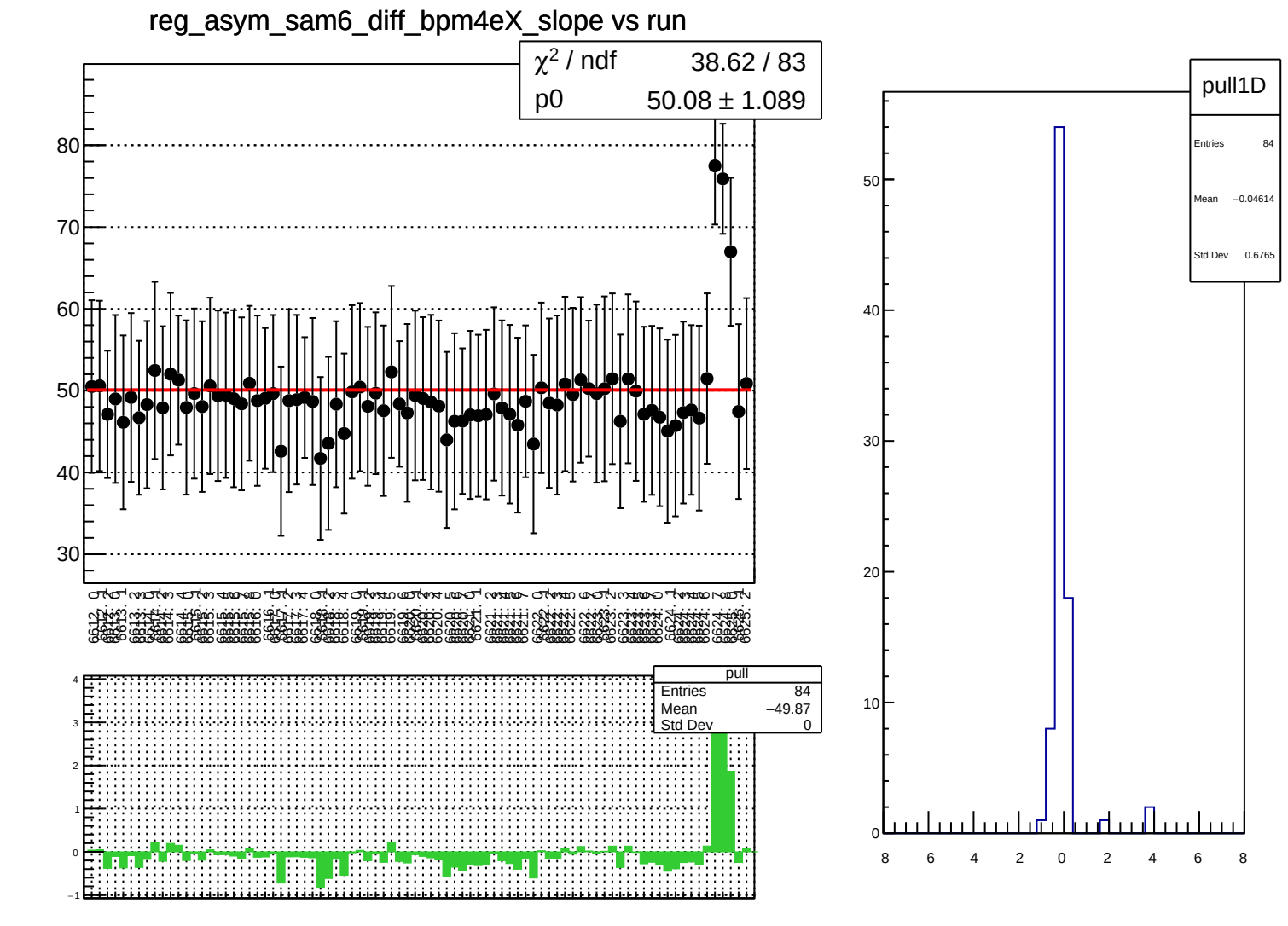

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 6.886 / 83
p0 0.03713 ± 0.04624
pull
Entries 84
Mean −2635
Std Dev 0

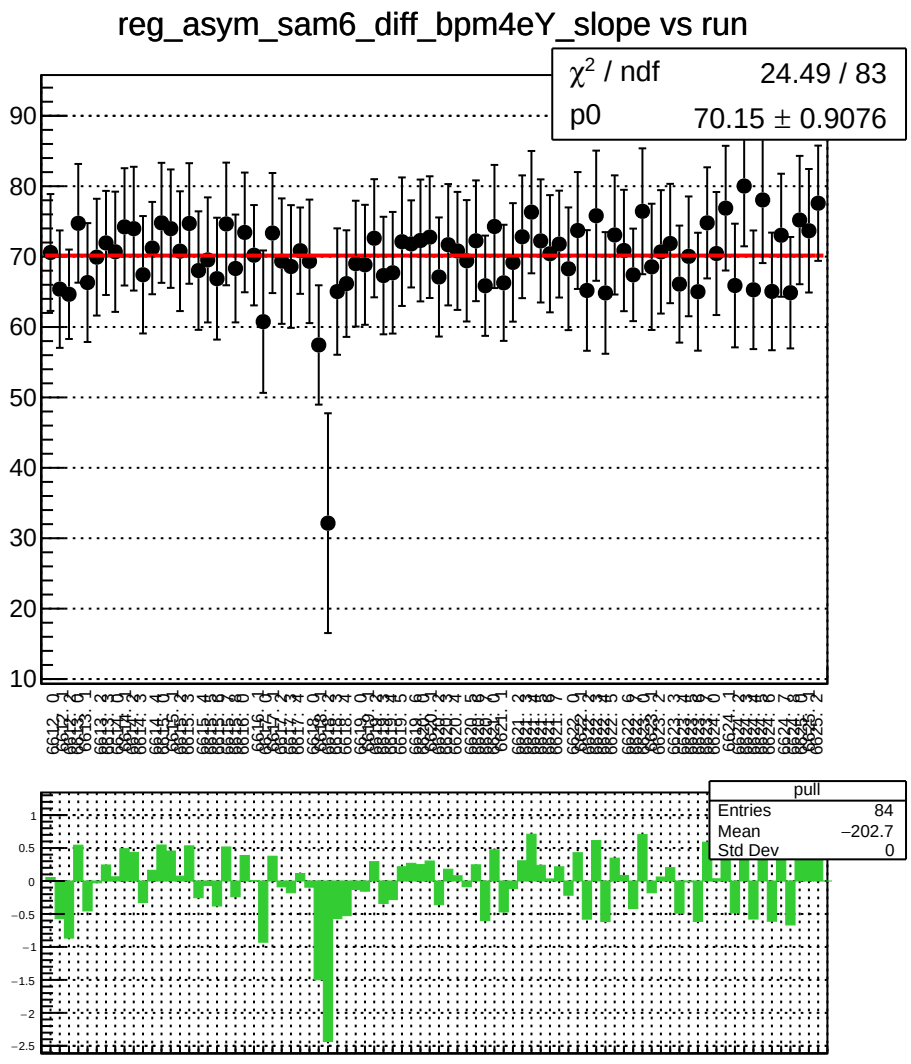

pull1D
Entries 84
Mean −0.001218
Std Dev 0.2863

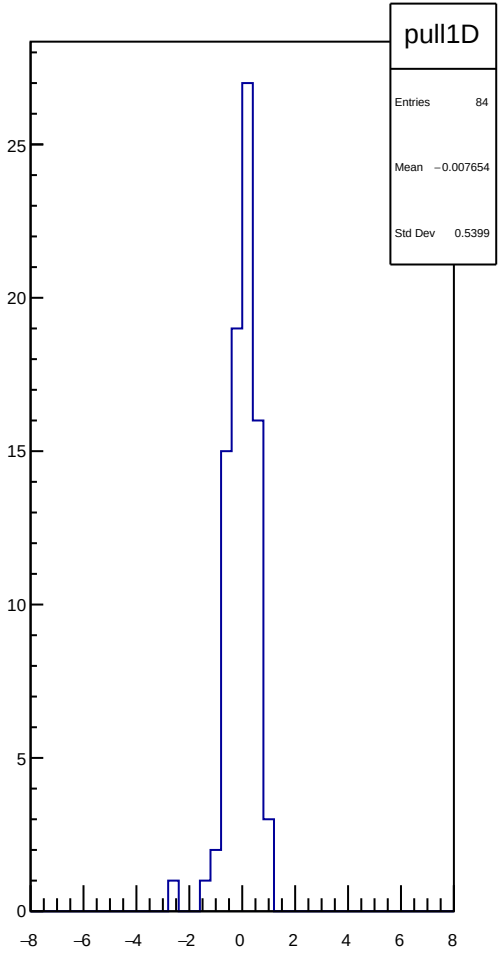

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 36.57 / 83
p0 18.95 ± 1.059
pull
Entries 84
Mean −32.62
Std Dev 0

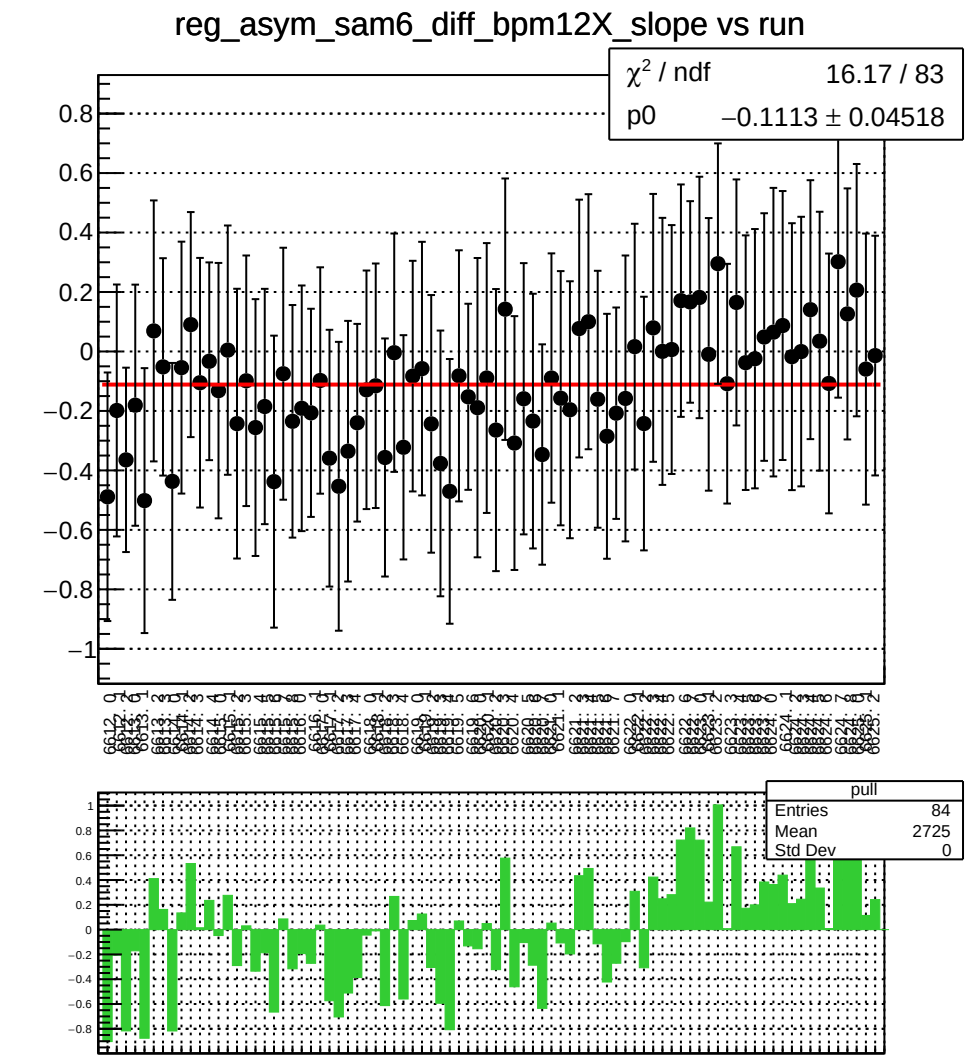

pull1D
Entries 84
Mean 0.04548
Std Dev 0.6582

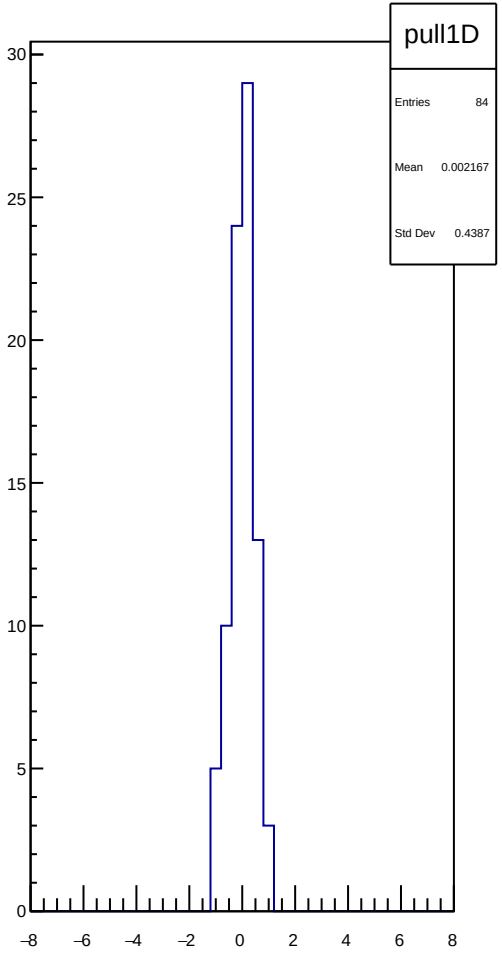

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 20.15 / 83
p0 45.06 ± 0.7675
pull
Entries 84
Mean −29.27
Std Dev 0
pull1D
Entries 84
Mean 0.01353
Std Dev 0.4896

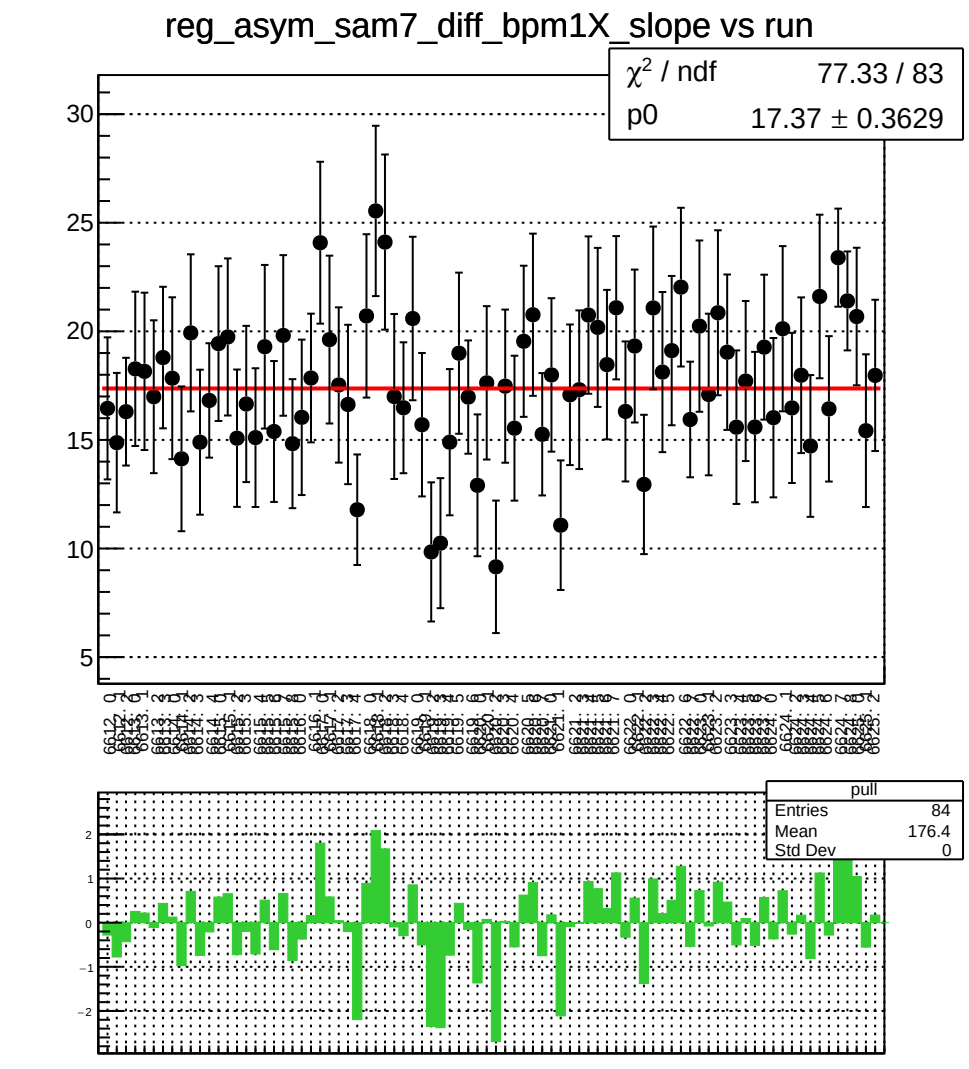

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 38.62 / 83
p0 50.08 ± 1.089
pull
Entries 84
Mean −49.87
Std Dev 0
pull1D
Entries 84
Mean −0.04614
Std Dev 0.6765

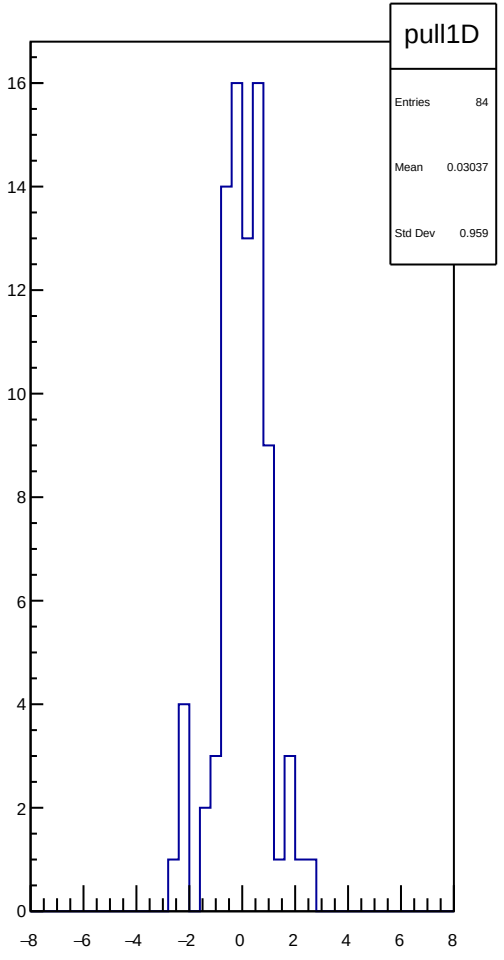

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 24.49 / 83
p0 70.15 ± 0.9076
pull
Entries 84
Mean −202.7
Std Dev 0

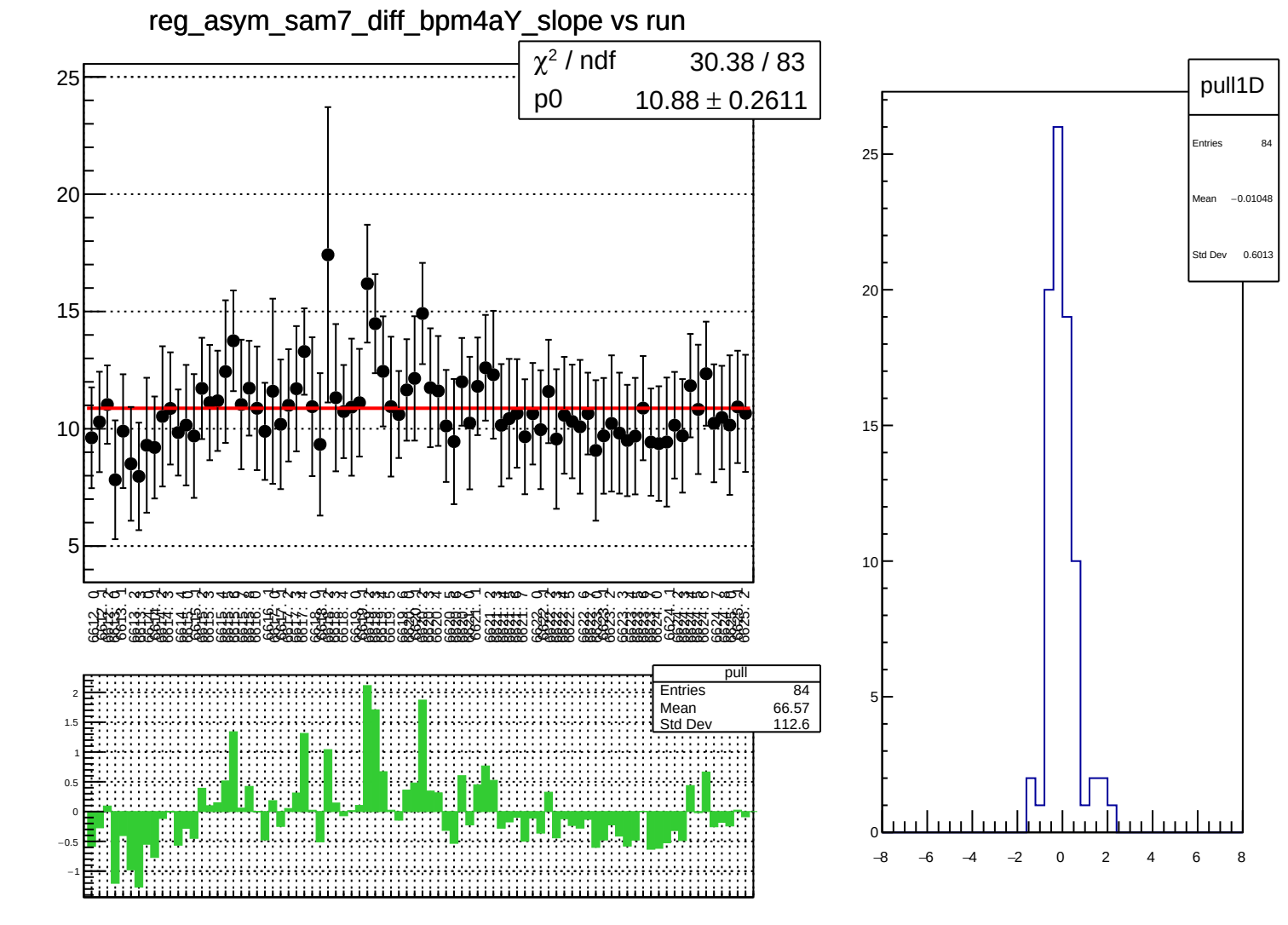

pull1D
Entries 84
Mean −0.007654
Std Dev 0.5399

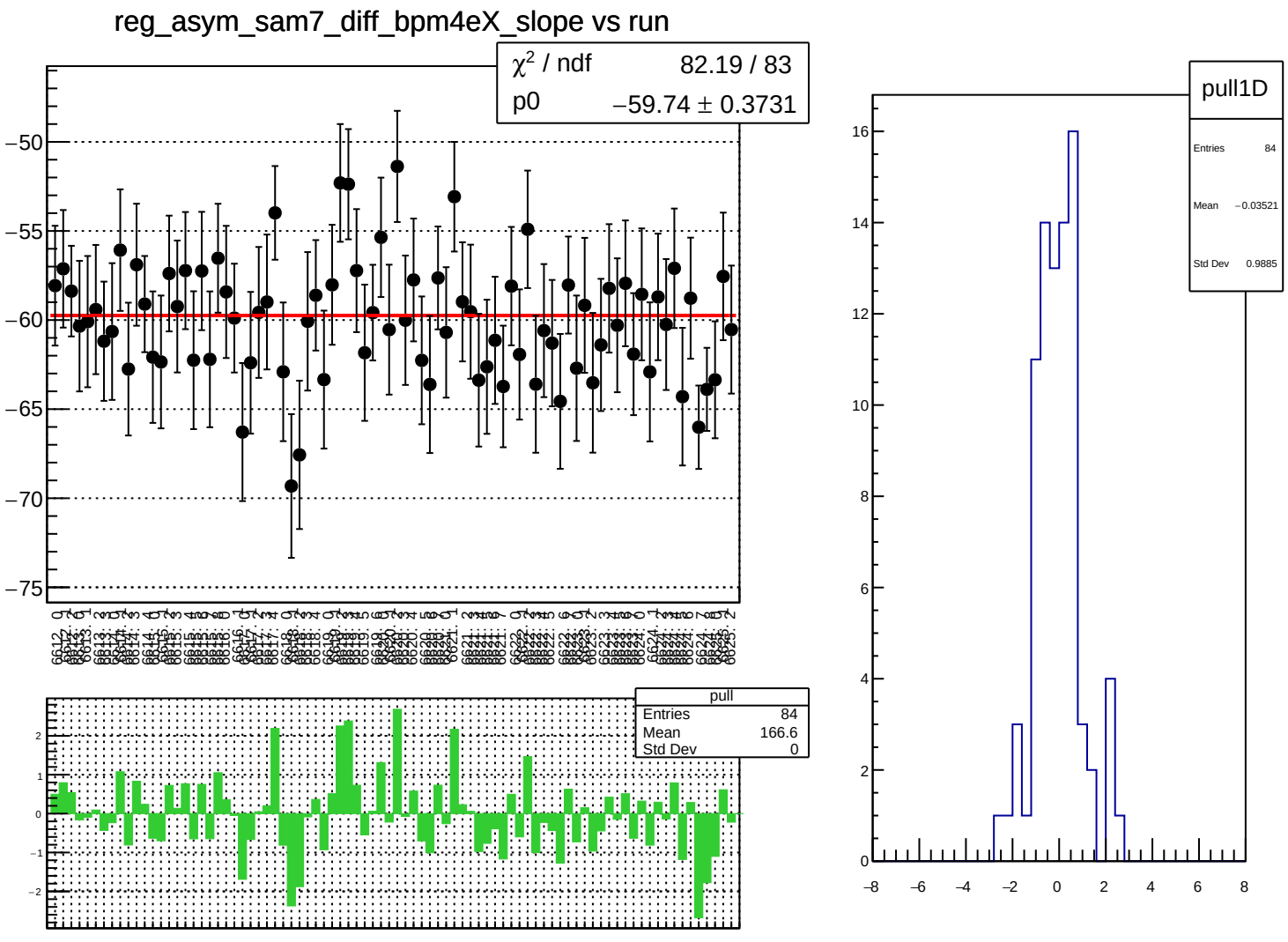

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 16.17 / 83
p0 −0.1113 ± 0.04518
pull
Entries 84
Mean 2725
Std Dev 0

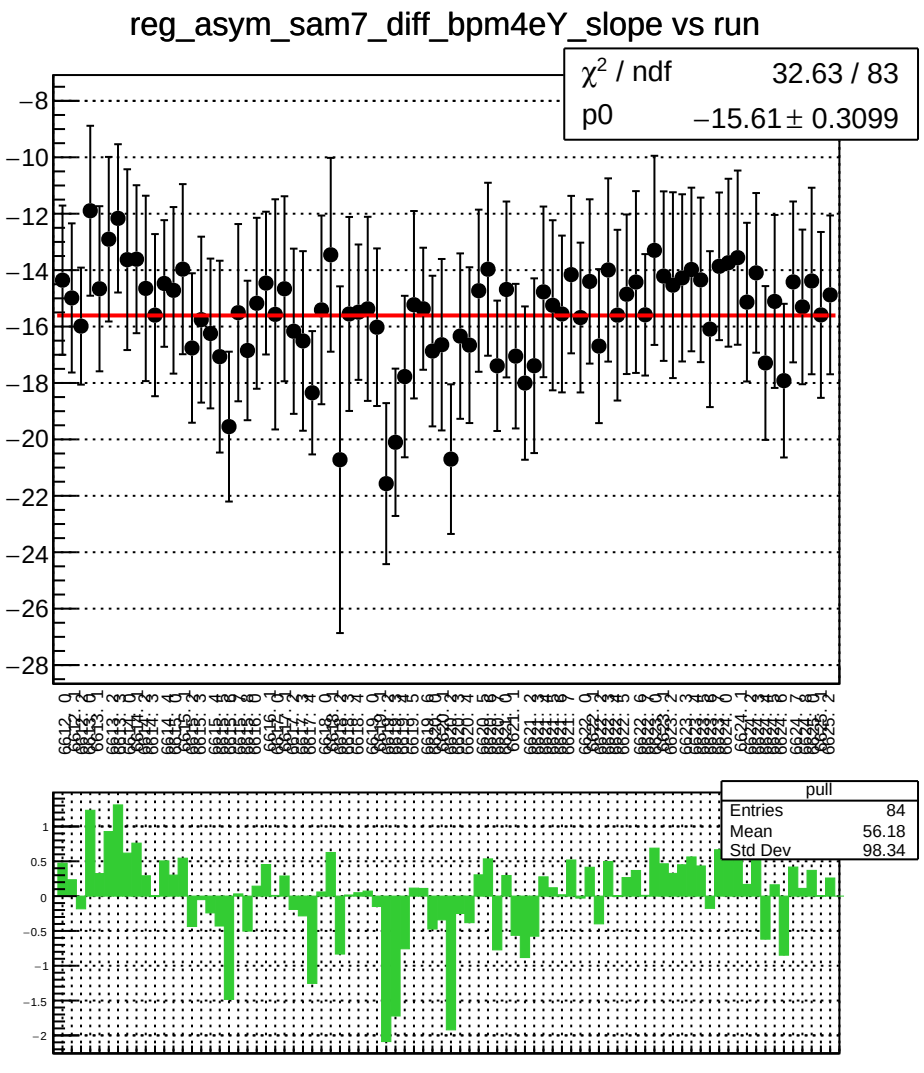

pull1D
Entries 84
Mean 0.002167
Std Dev 0.4387

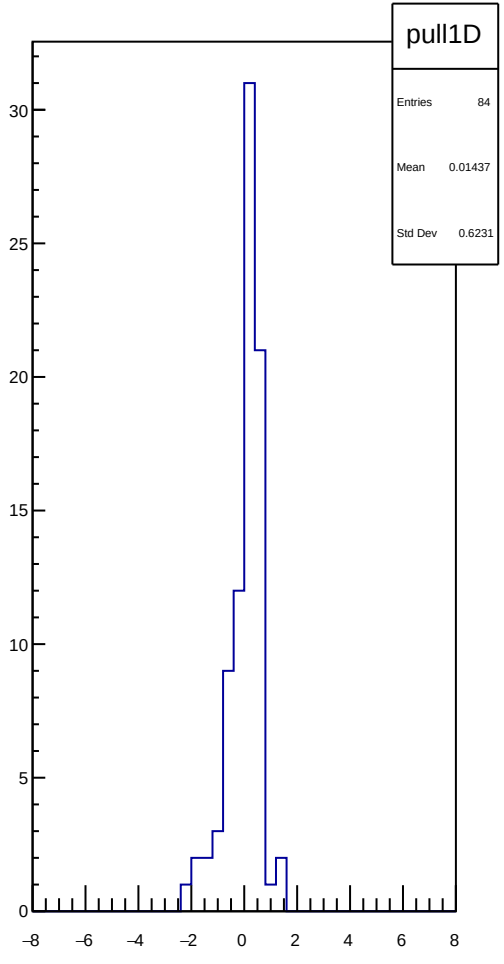

reg_asym_sam7_diff_bpm1X_slope vs run
χ^2 / ndf 77.33 / 83
p0 17.37 ± 0.3629
pull
Entries 84
Mean 176.4
Std Dev 0

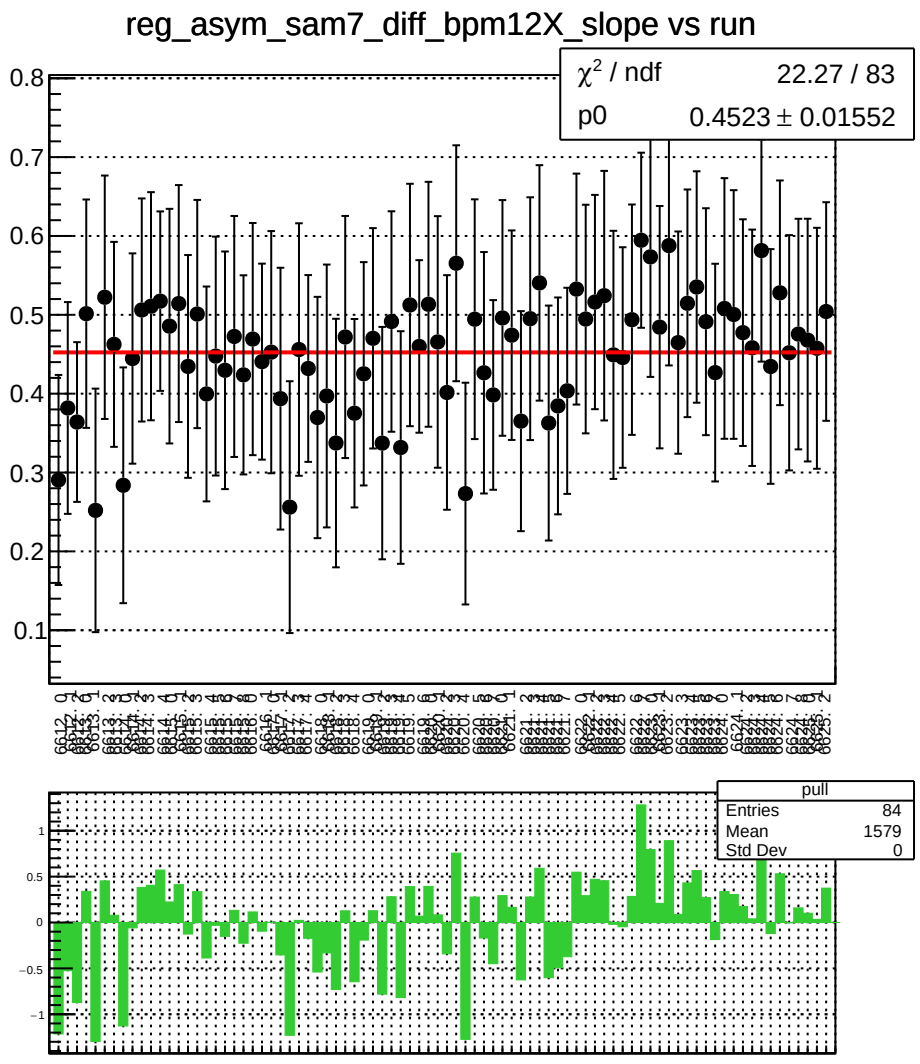

pull1D
Entries 84
Mean 0.03037
Std Dev 0.959

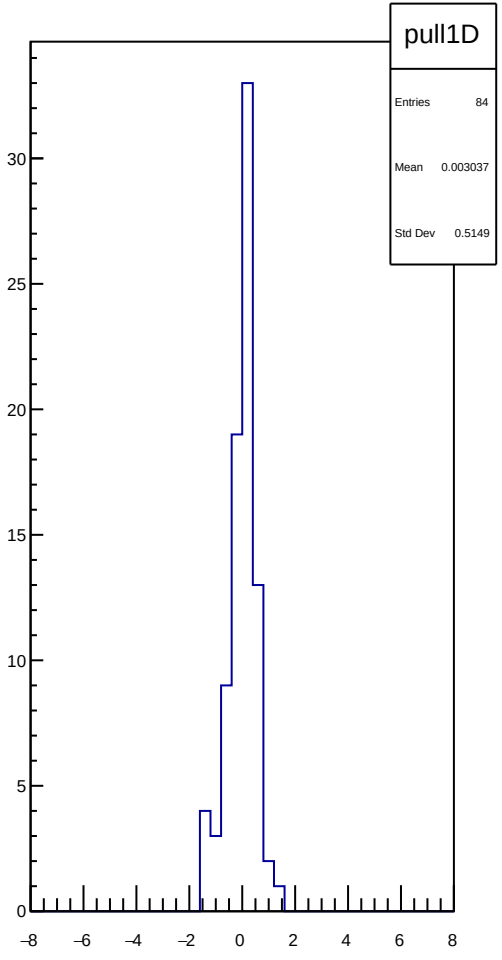

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 30.38 / 83
p0 10.88 ± 0.2611
pull
Entries 84
Mean 66.57
Std Dev 112.6
pull1D
Entries 84
Mean −0.01048
Std Dev 0.6013

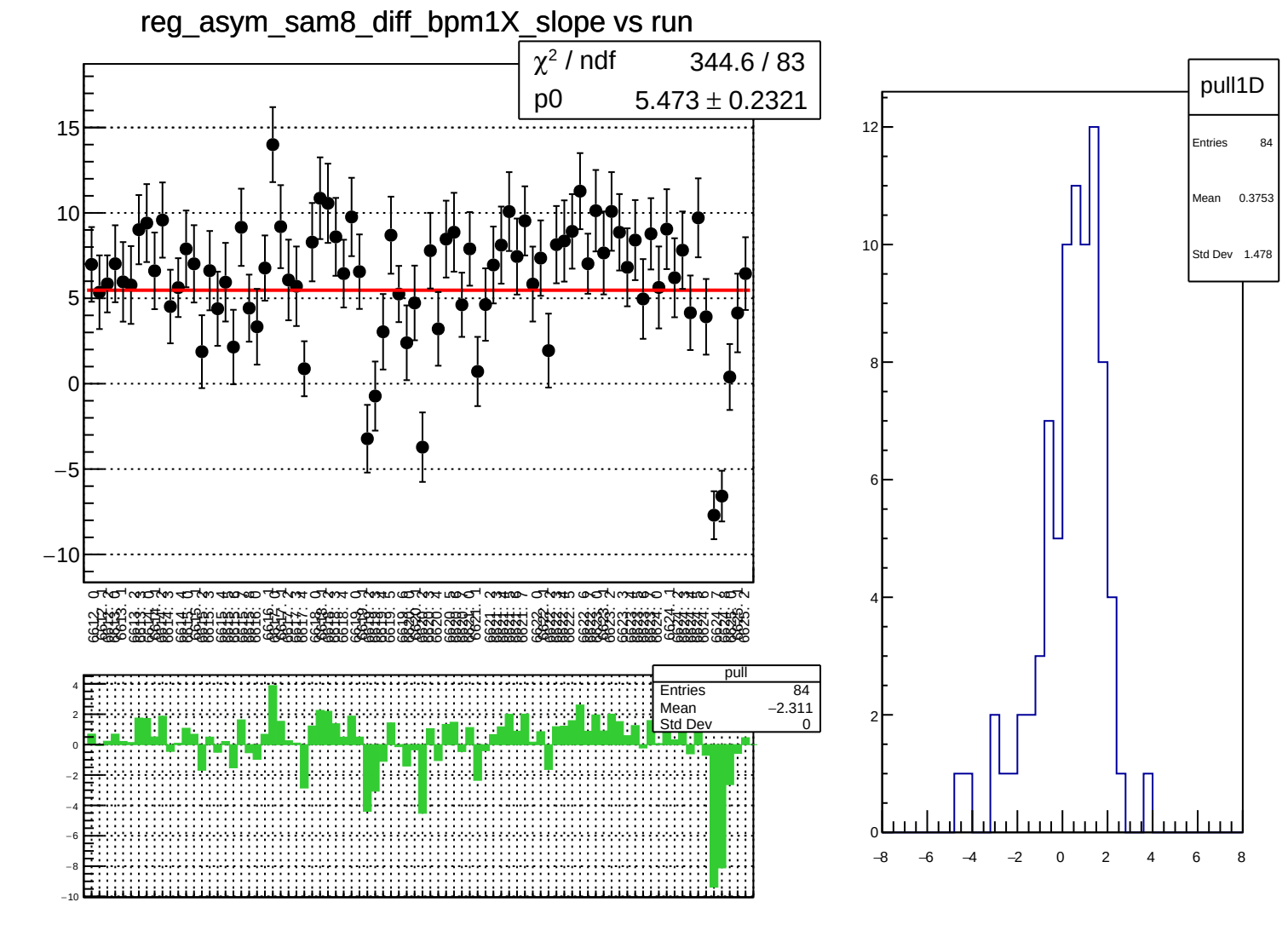

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 82.19 / 83
p0 −59.74 ± 0.3731
pull
Entries 84
Mean 166.6
Std Dev 0
pull1D
Entries 84
Mean −0.03521
Std Dev 0.9885

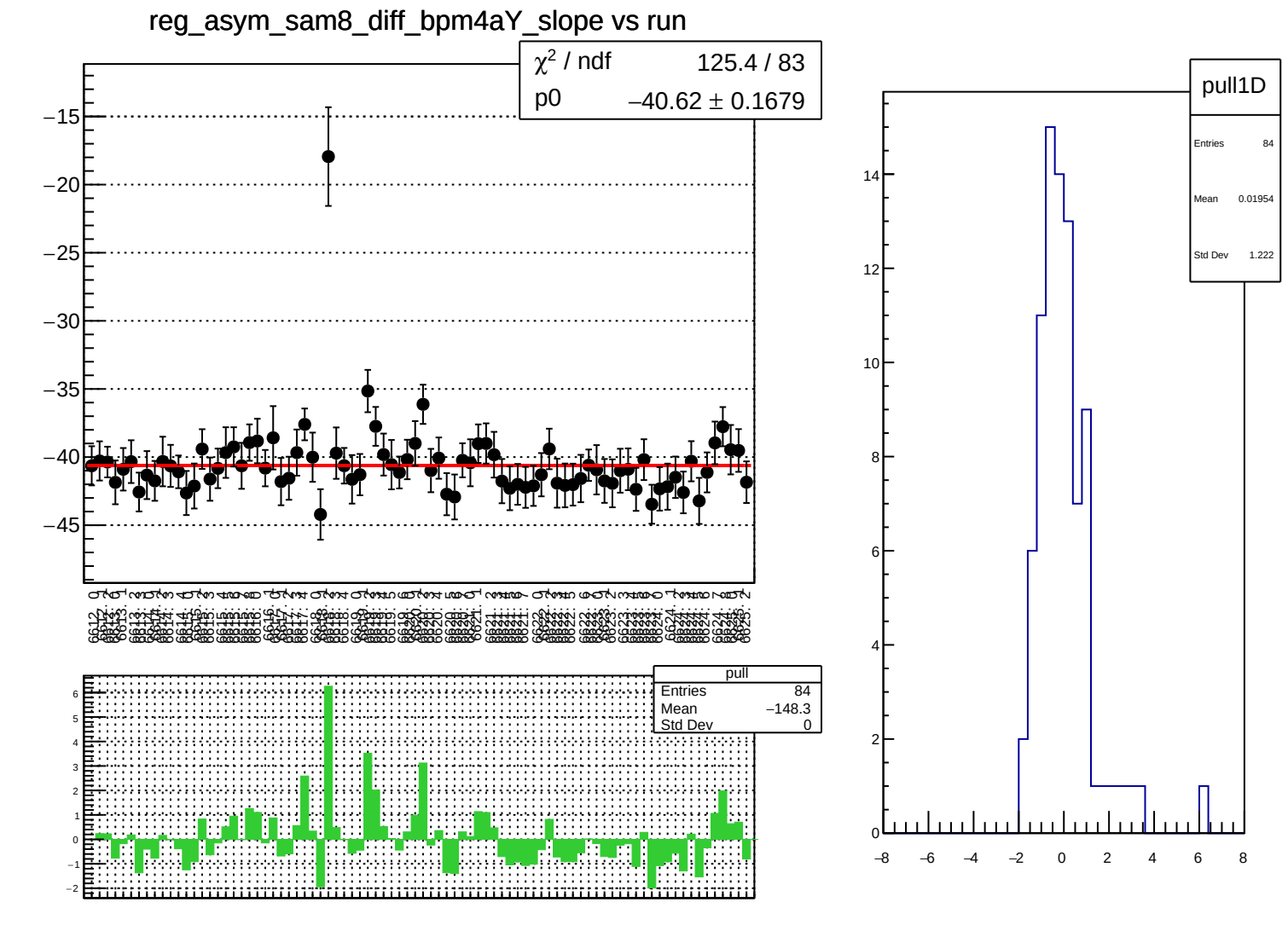

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 32.63 / 83
p0 −15.61 ± 0.3099
pull
Entries 84
Mean 56.18
Std Dev 98.34

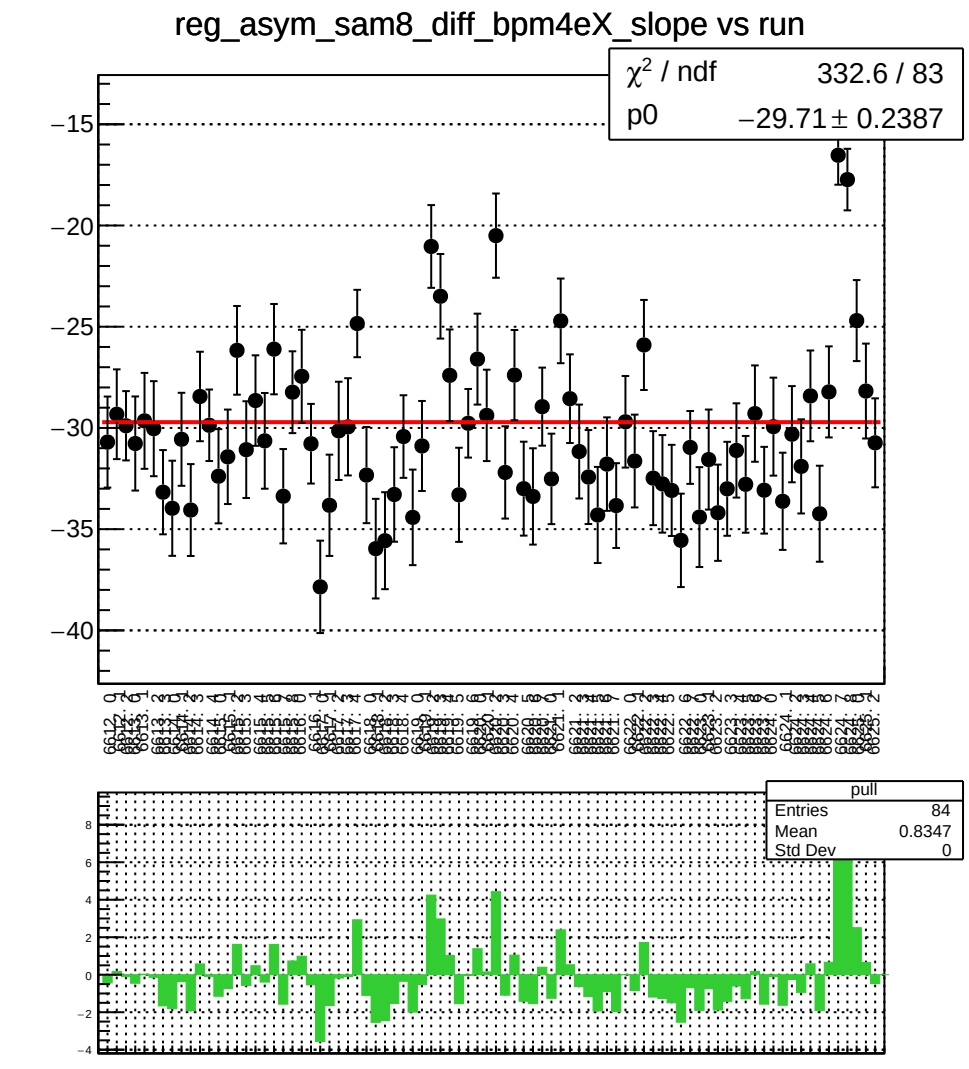

pull1D
Entries 84
Mean 0.01437
Std Dev 0.6231

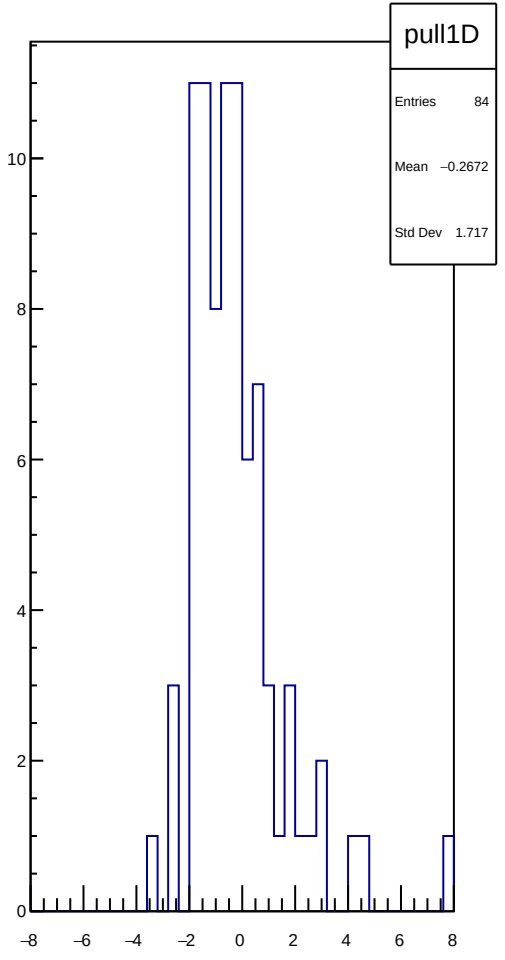

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 22.27 / 83
p0 0.4523 ± 0.01552
pull
Entries 84
Mean 1579
Std Dev 0

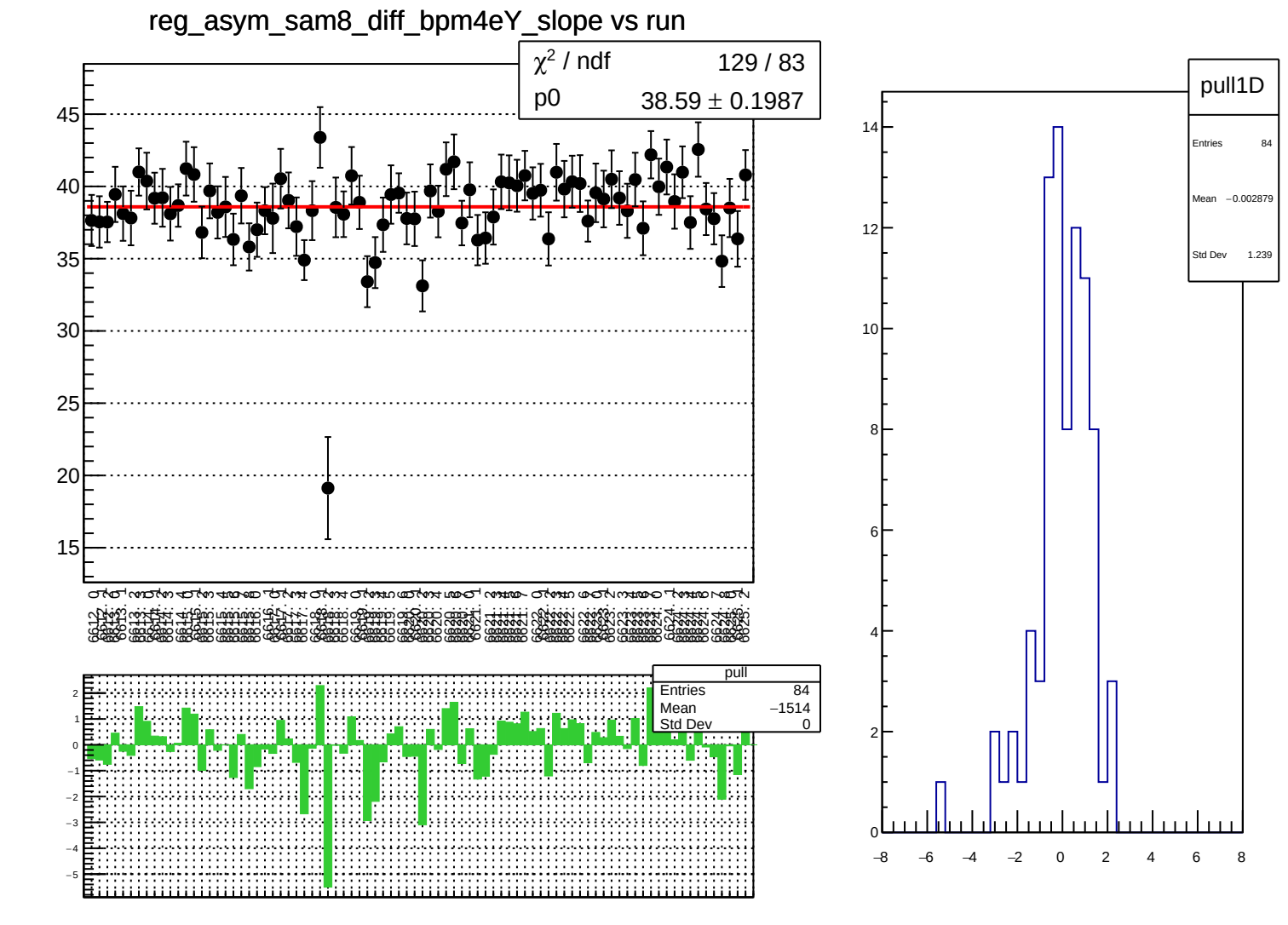

pull1D
Entries 84
Mean 0.003037
Std Dev 0.5149

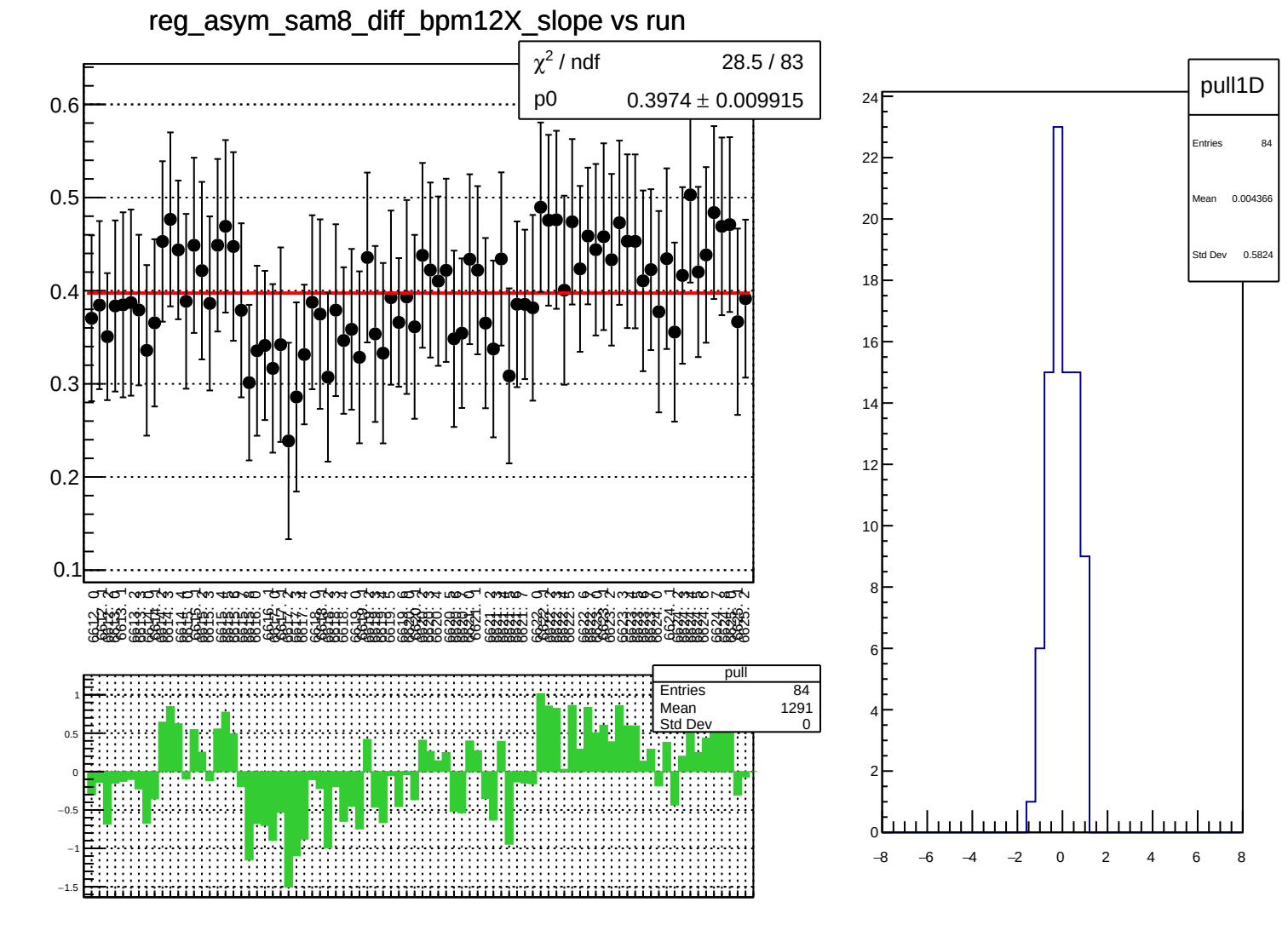

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 344.6 / 83
p0 5.473 ± 0.2321
pull
Entries 84
Mean −2.311
Std Dev 0
pull1D
Entries 84
Mean 0.3753
Std Dev 1.478

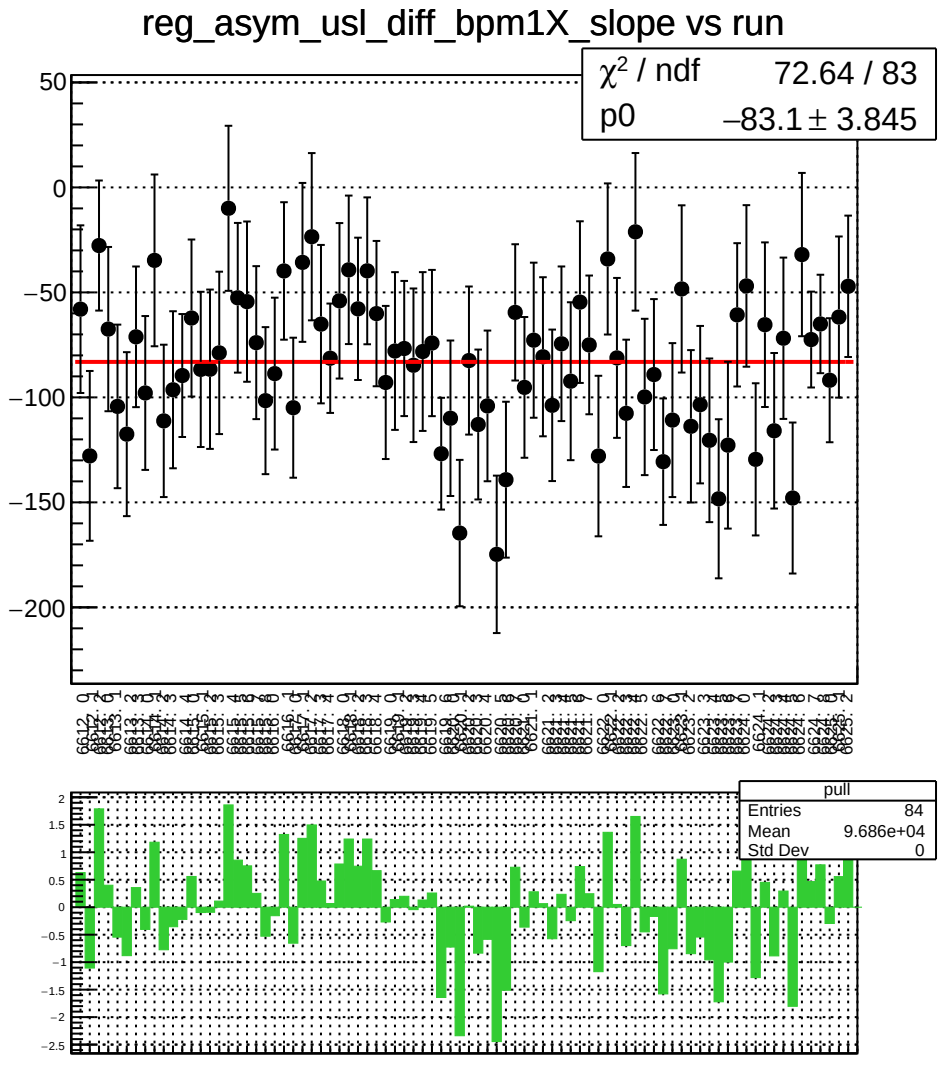

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 125.4 / 83
p0 −40.62 ± 0.1679
pull
Entries 84
Mean −148.3
Std Dev 0
pull1D
Entries 84
Mean 0.01954
Std Dev 1.222

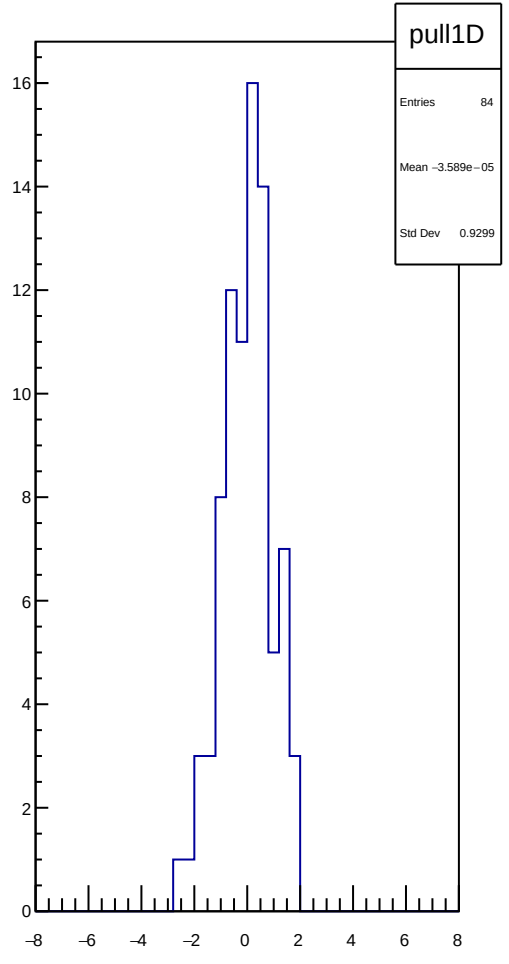

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 332.6 / 83
p0 −29.71 ± 0.2387
pull
Entries 84
Mean 0.8347
Std Dev 0

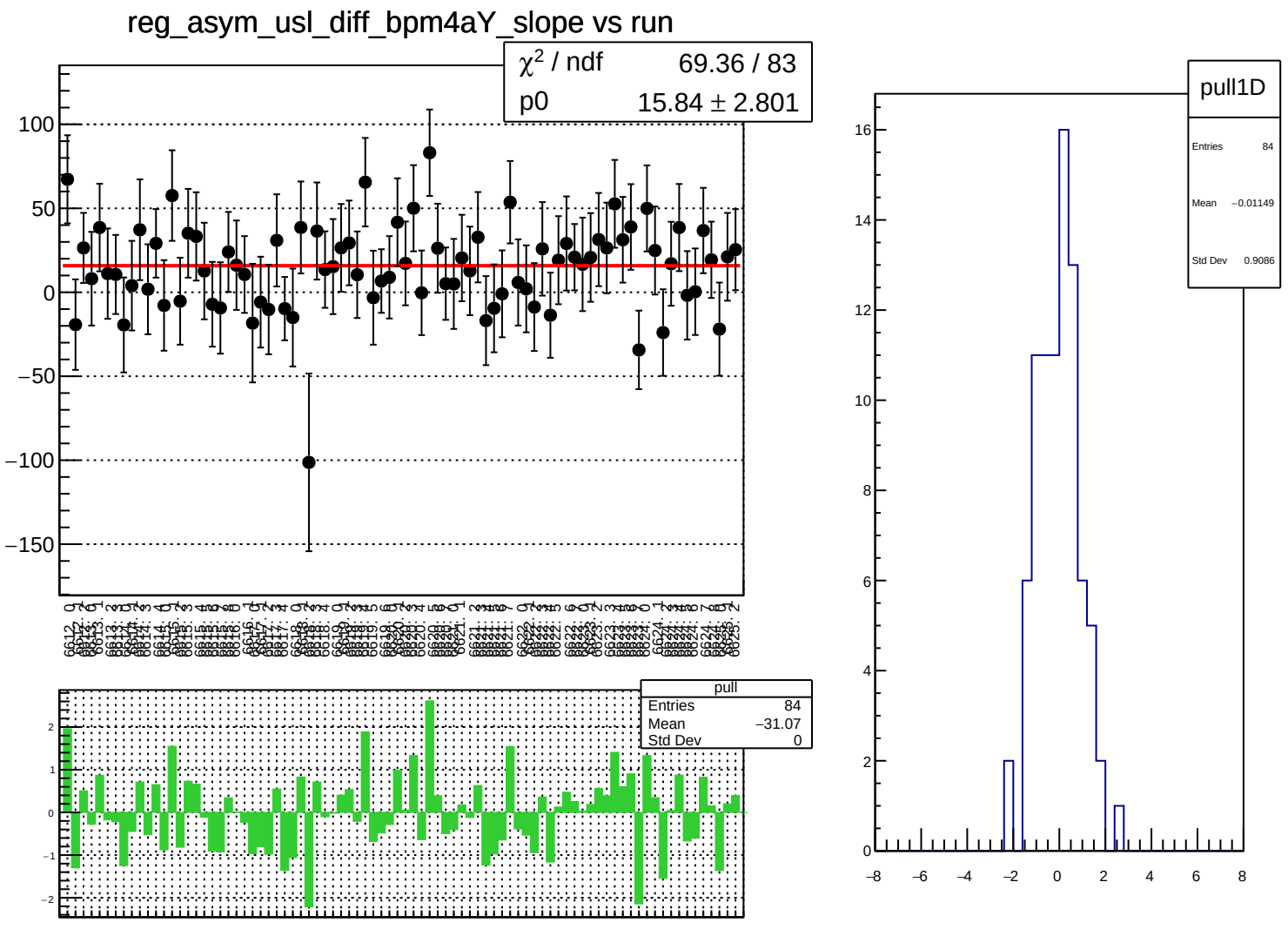

pull1D
Entries 84
Mean −0.2672
Std Dev 1.717

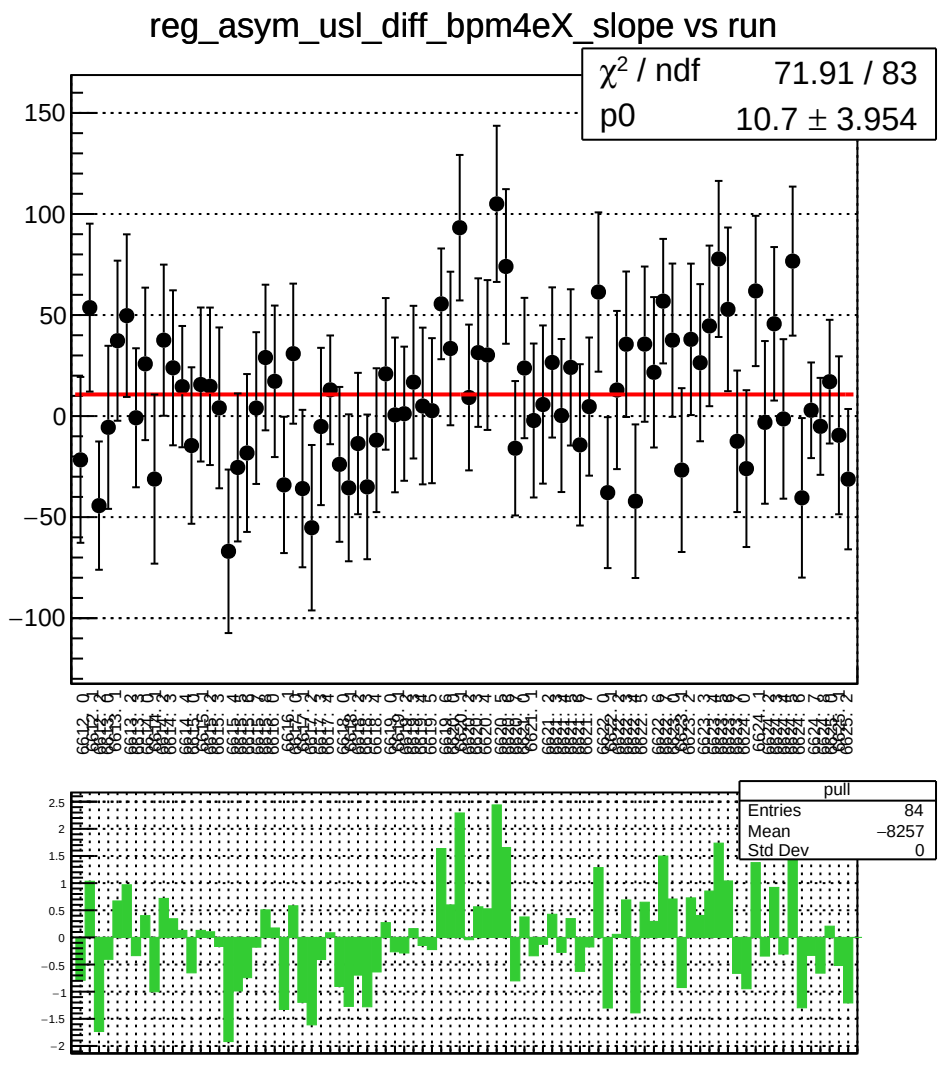

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 129 / 83
p0 38.59 ± 0.1987
pull
Entries 84
Mean −1514
Std Dev 0
pull1D
Entries 84
Mean −0.002879
Std Dev 1.239

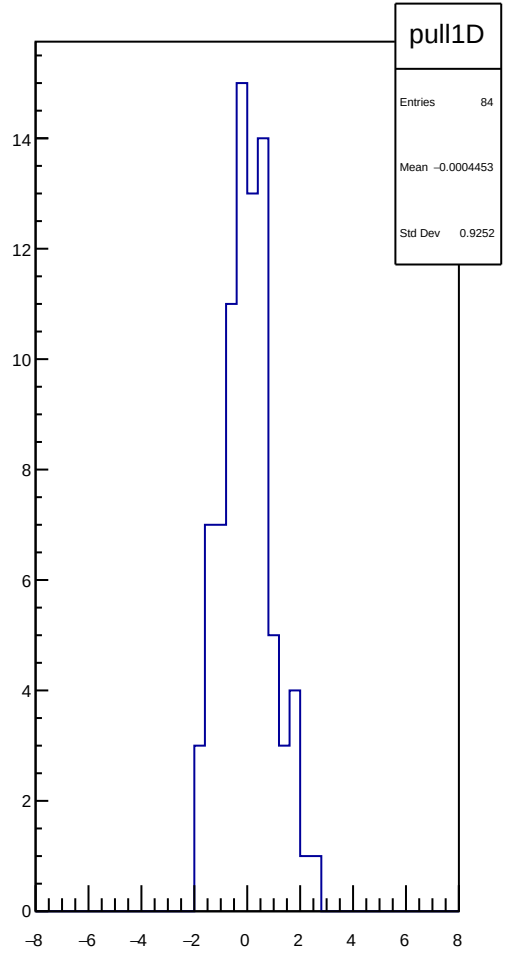

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 28.5 / 83
p0 0.3974 ± 0.009915
pull
Entries 84
Mean 1291
Std Dev 0
pull1D
Entries 84
Mean 0.004366
Std Dev 0.5824

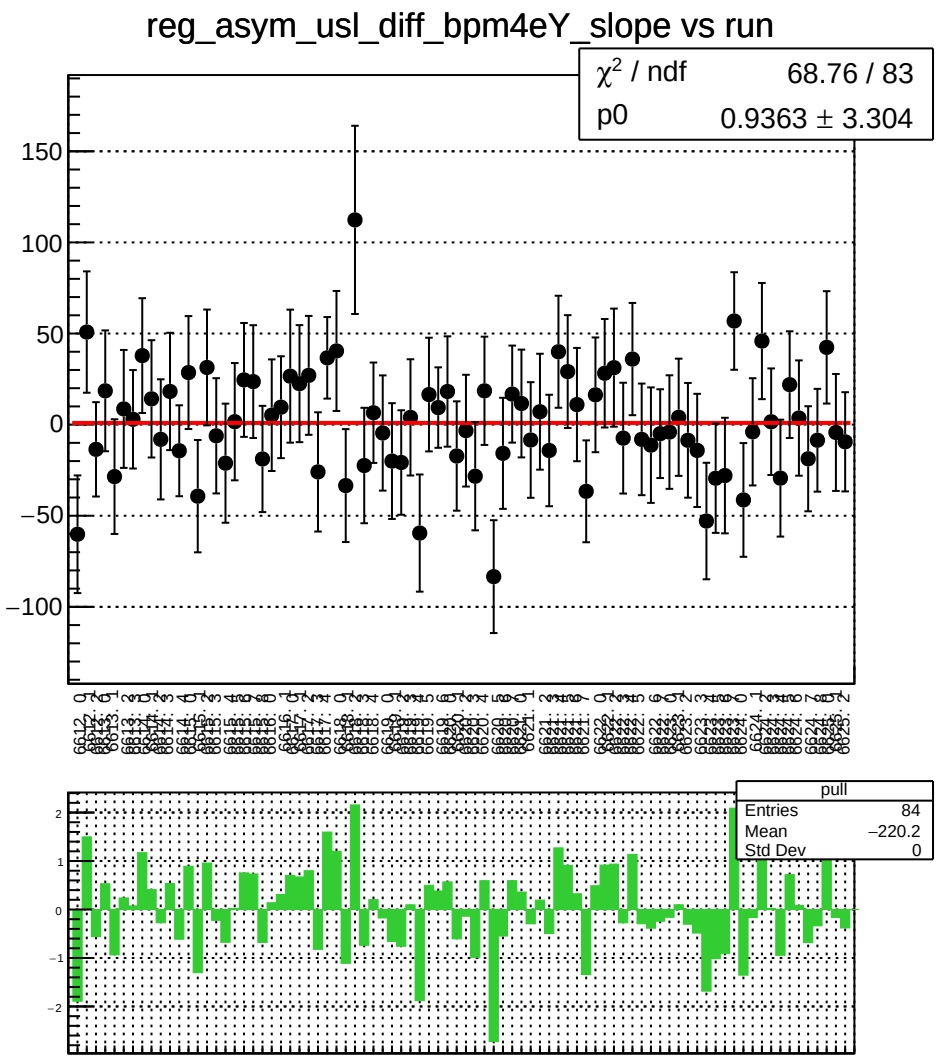

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 72.64 / 83
p0 −83.1 ± 3.845
pull
Entries 84
Mean 9.686e+04
Std Dev 0

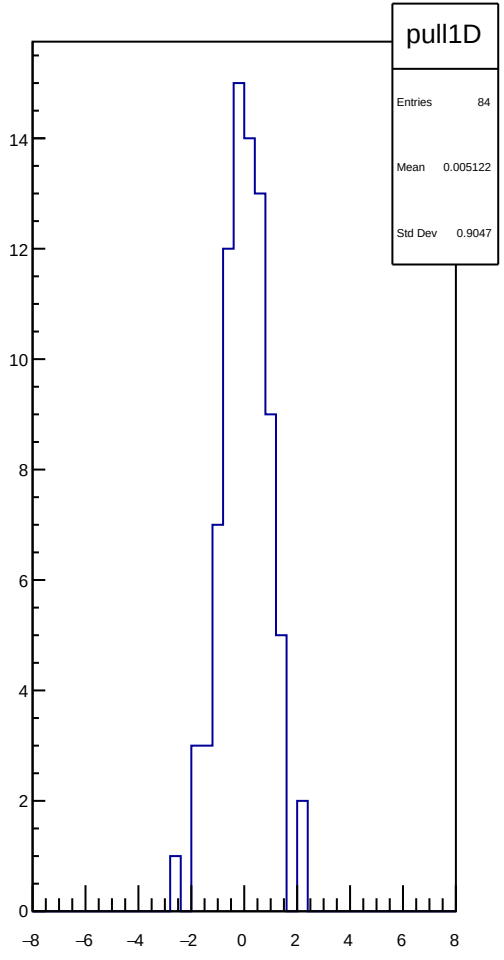

pull1D
Entries 84
Mean −3.589e−05
Std Dev 0.9299

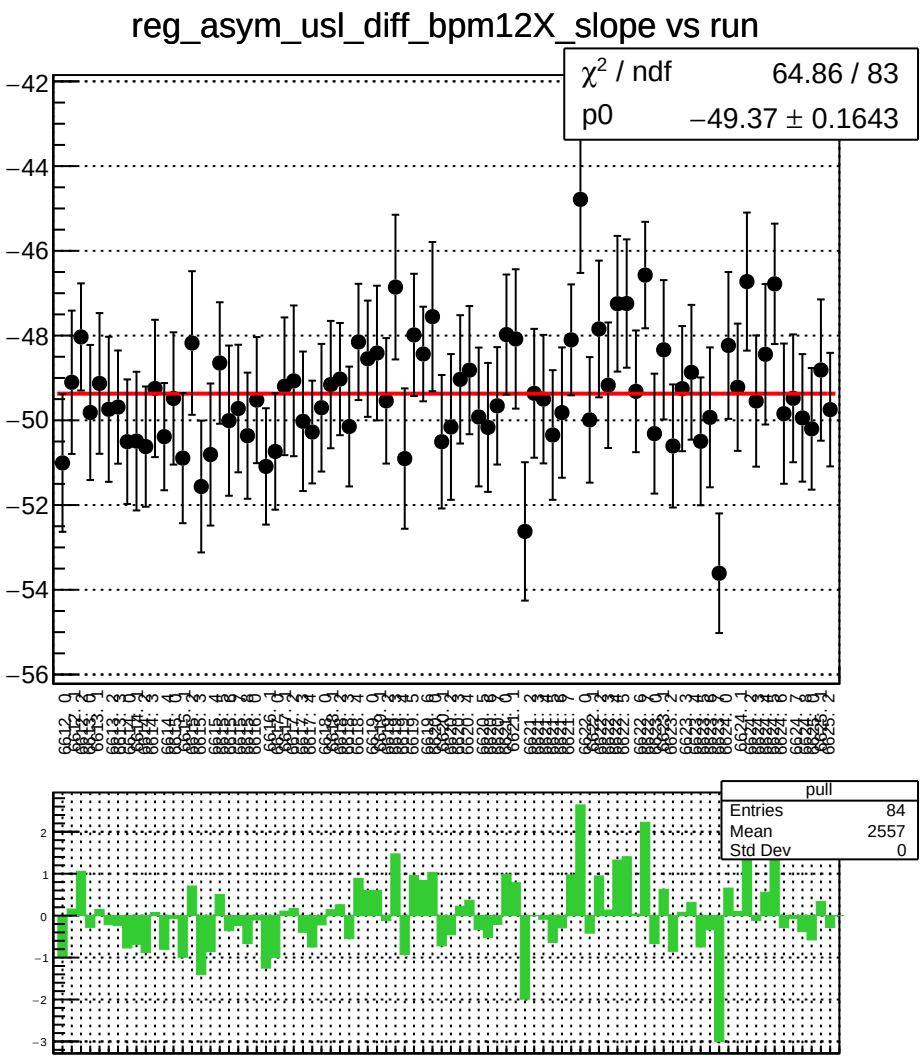

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 69.36 / 83
p0 15.84 ± 2.801
pull
Entries 84
Mean −31.07
Std Dev 0
pull1D
Entries 84
Mean −0.01149
Std Dev 0.9086

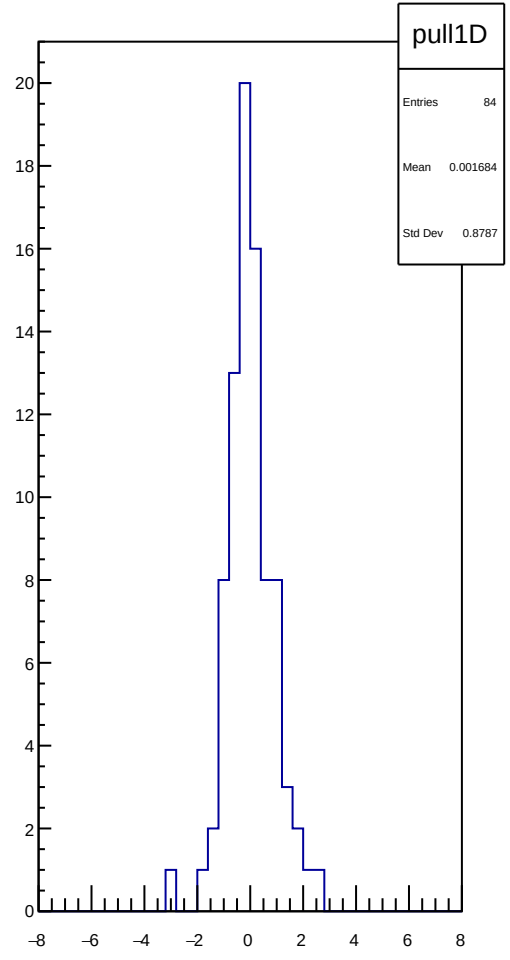

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 71.91 / 83
p0 10.7 ± 3.954
150
100
50
0
−50
−100
pull
Entries 84
Mean −8257
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

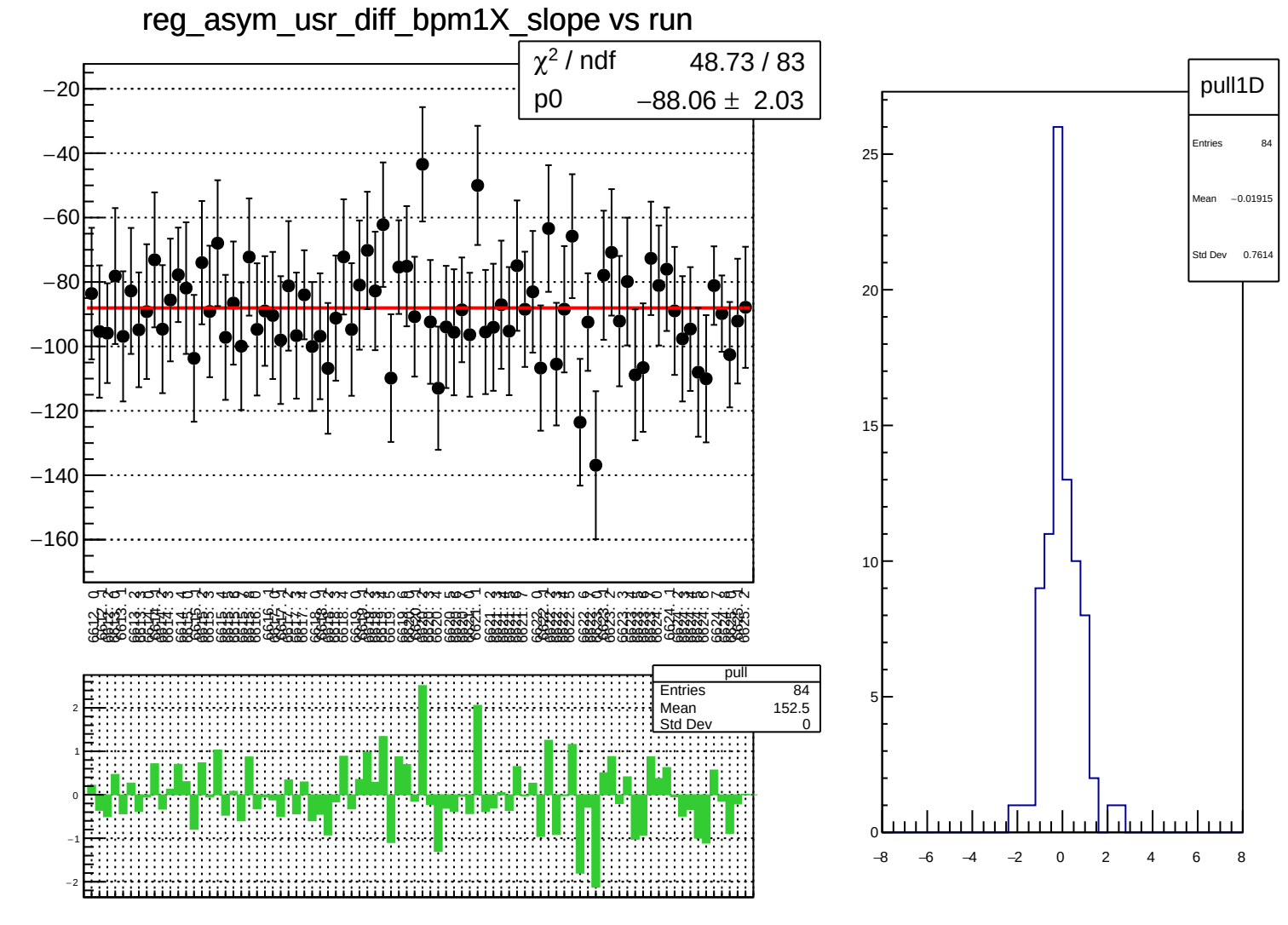

pull1D
Entries 84
Mean −0.0004453
Std Dev 0.9252
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

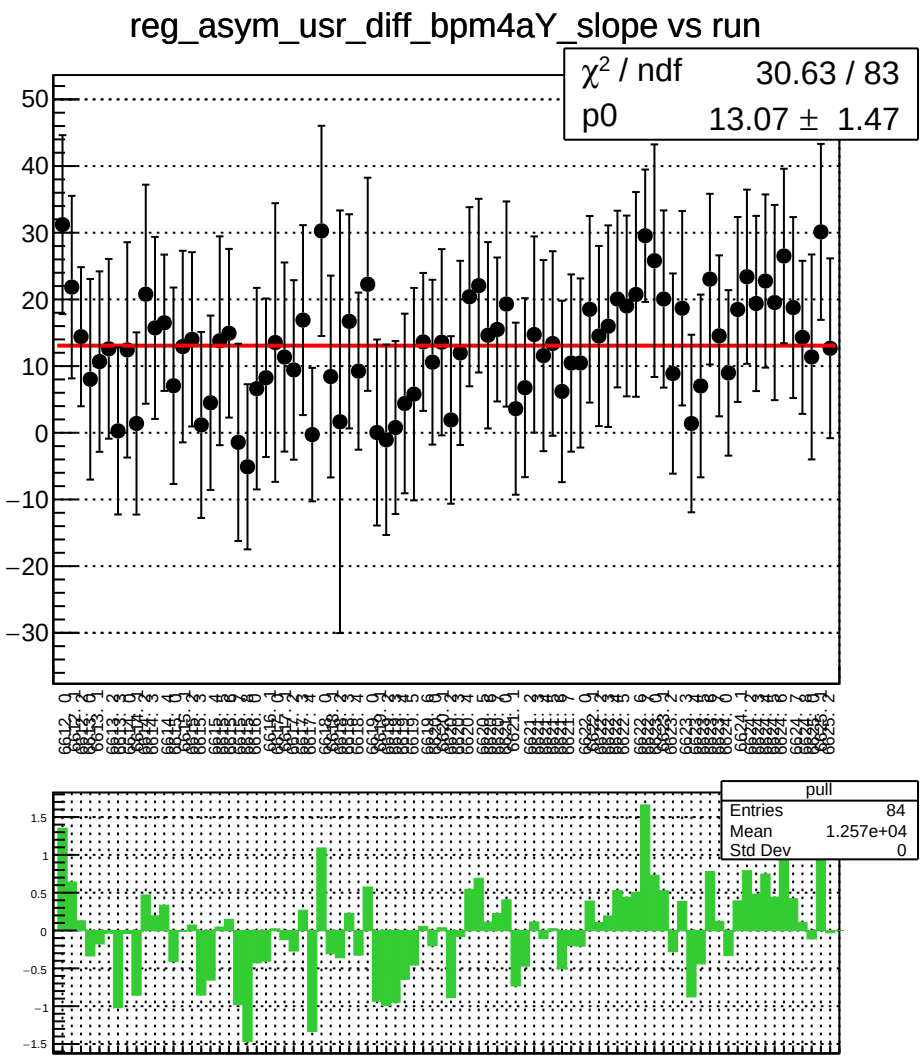

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 68.76 / 83
p0 0.9363 ± 3.304
150
100
50
0
−50
−100
pull
Entries 84
Mean −220.2
Std Dev 0
2
1
0
−1
−2

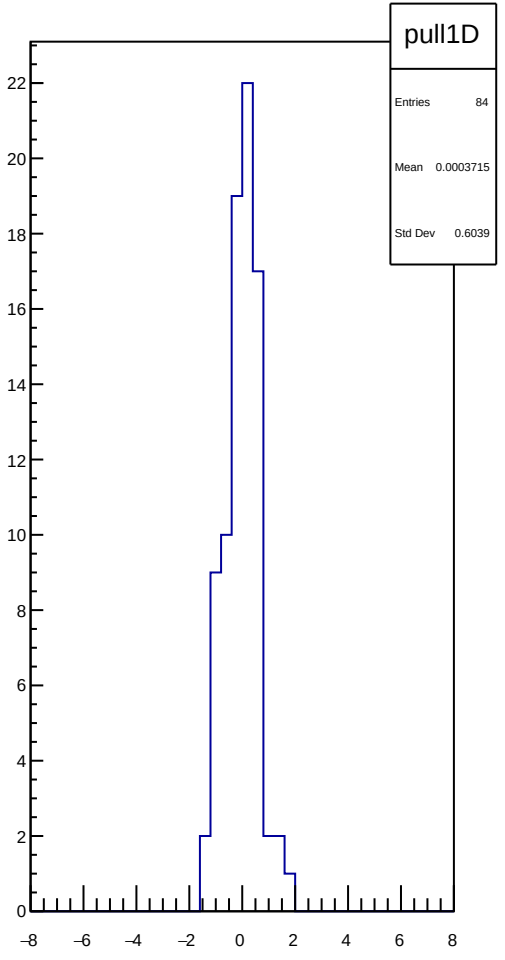

pull1D
Entries 84
Mean 0.005122
Std Dev 0.9047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

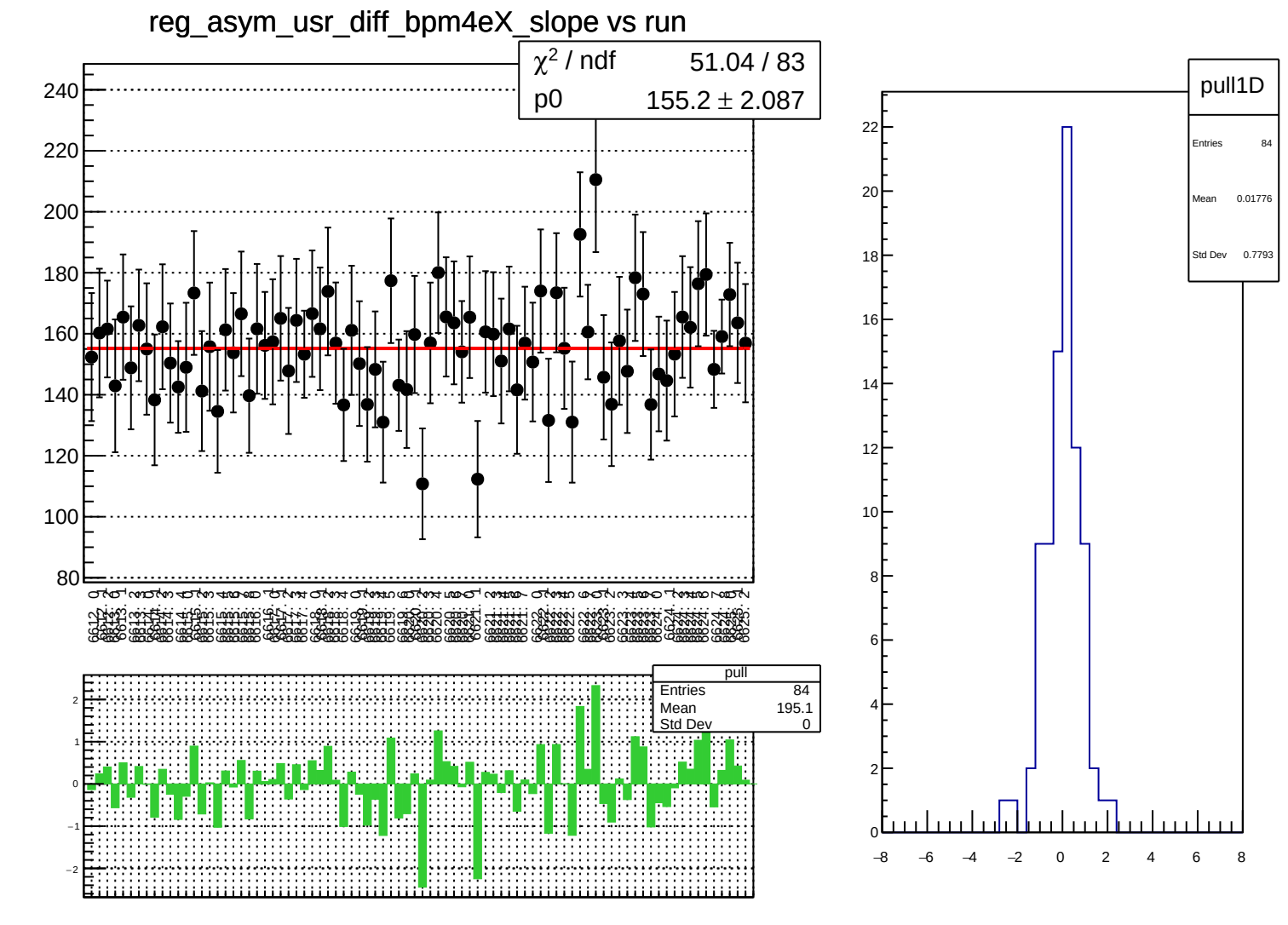

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 64.86 / 83
p0 −49.37 ± 0.1643
pull
Entries 84
Mean 2557
Std Dev 0

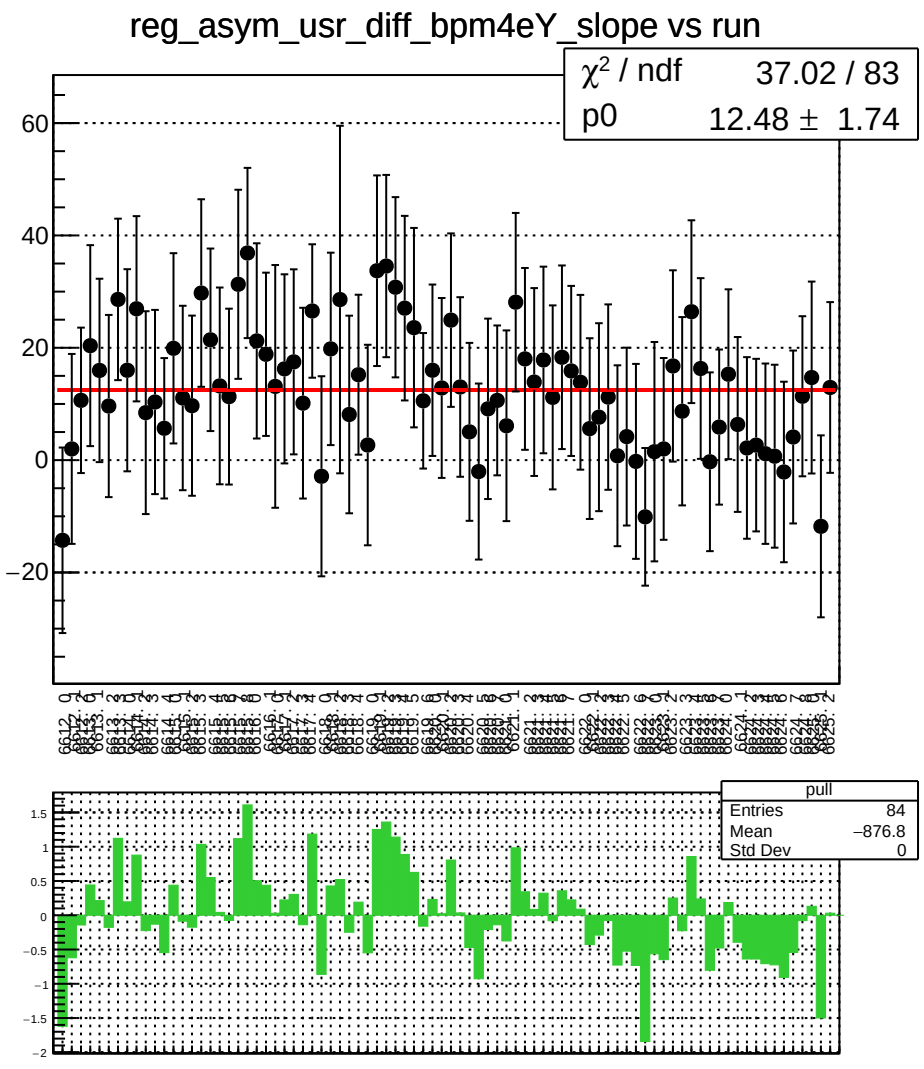

pull1D
Entries 84
Mean 0.001684
Std Dev 0.8787

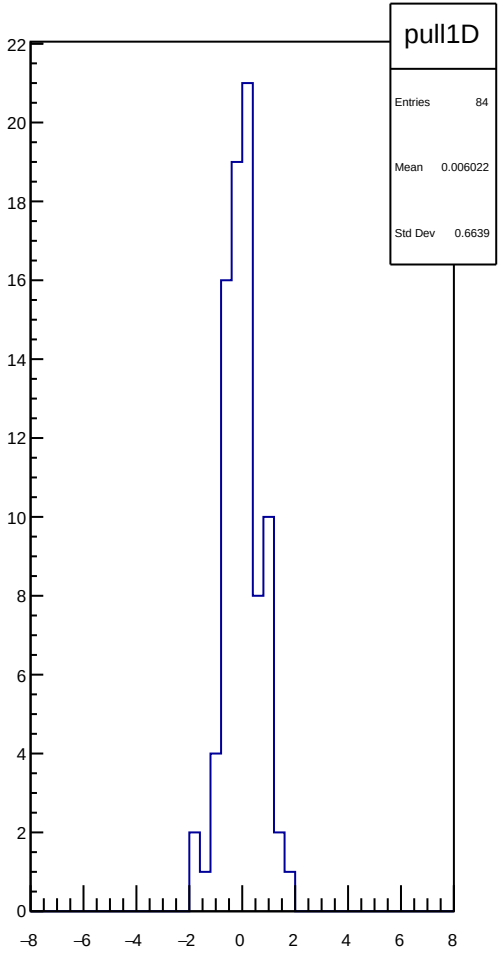

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 48.73 / 83
p0 −88.06 ± 2.03
pull
Entries 84
Mean 152.5
Std Dev 0
pull1D
Entries 84
Mean −0.01915
Std Dev 0.7614

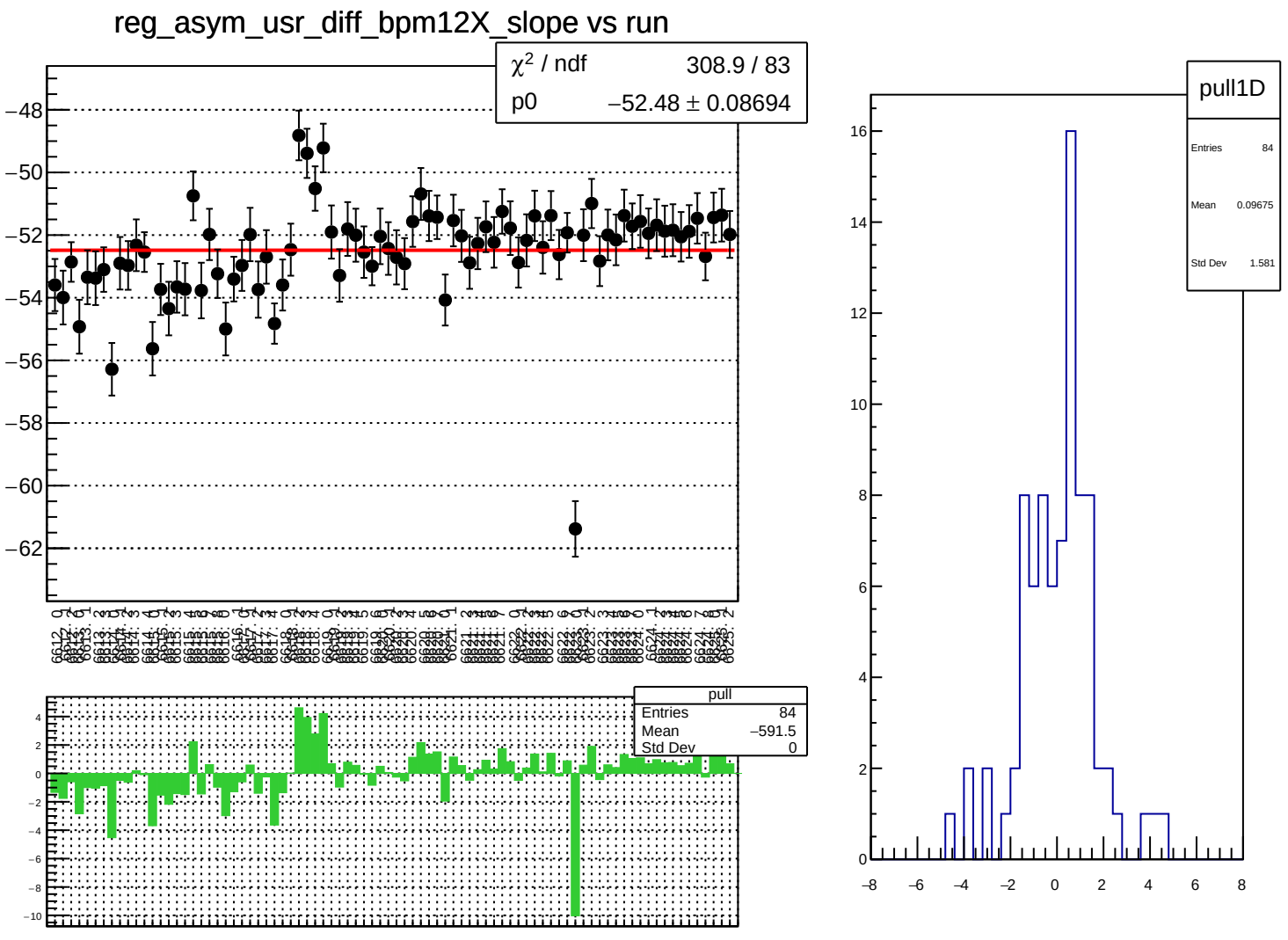

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 30.63 / 83
p0 13.07 ± 1.47
pull
Entries 84
Mean 1.257e+04
Std Dev 0

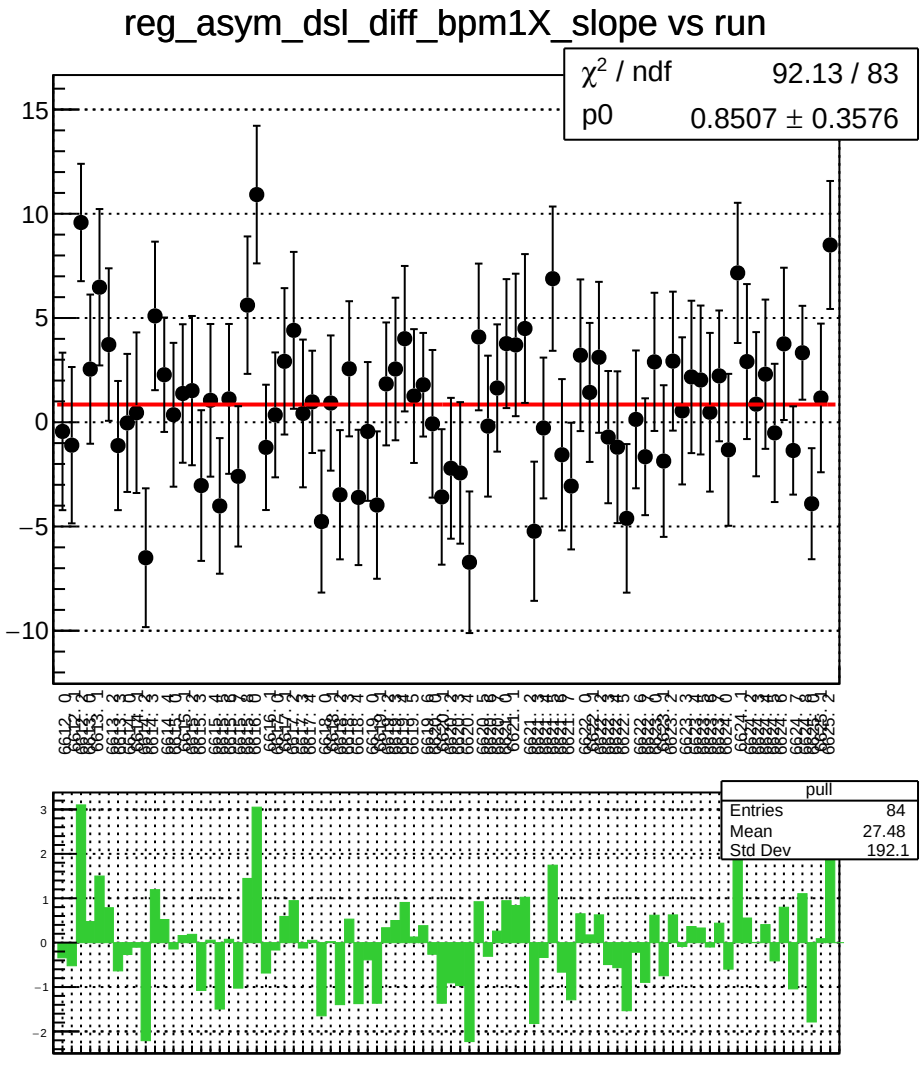

pull1D
Entries 84
Mean 0.0003715
Std Dev 0.6039

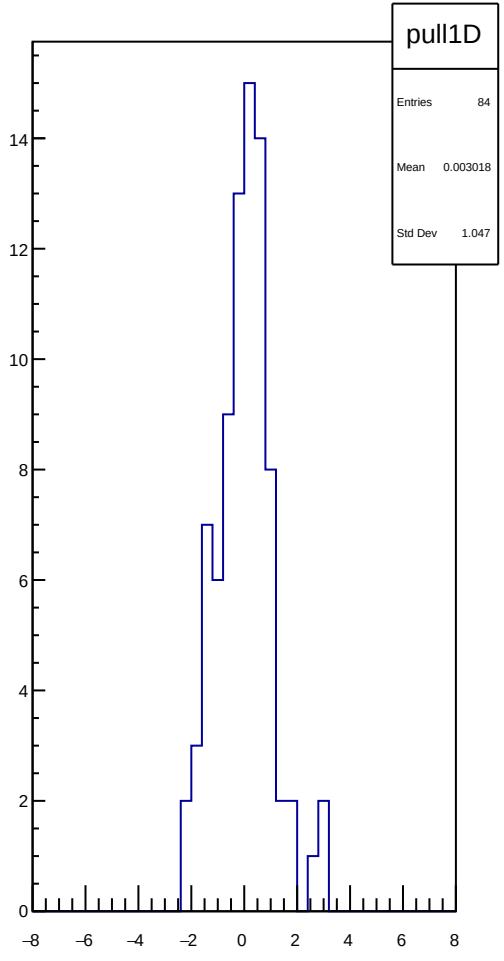

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 51.04 / 83
p0 155.2 ± 2.087
pull
Entries 84
Mean 195.1
Std Dev 0
pull1D
Entries 84
Mean 0.01776
Std Dev 0.7793

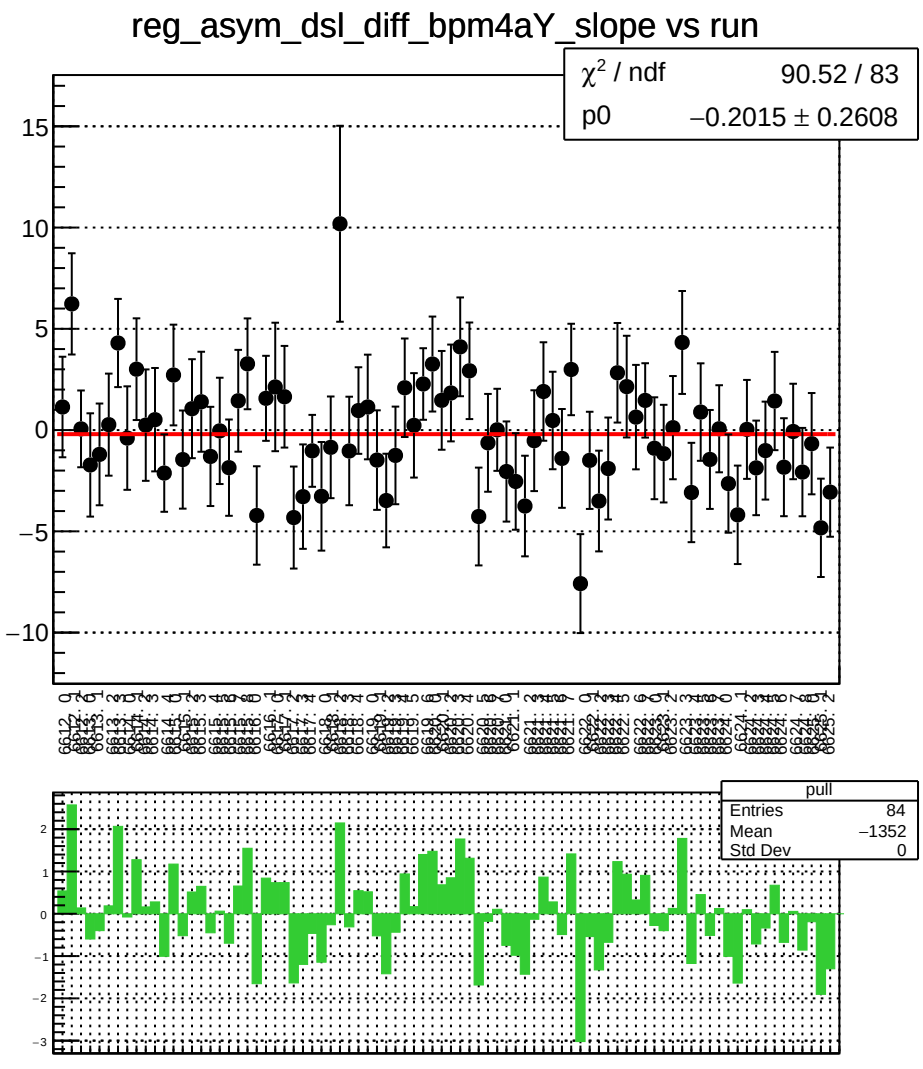

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 37.02 / 83
p0 12.48 ± 1.74
pull
Entries 84
Mean −876.8
Std Dev 0

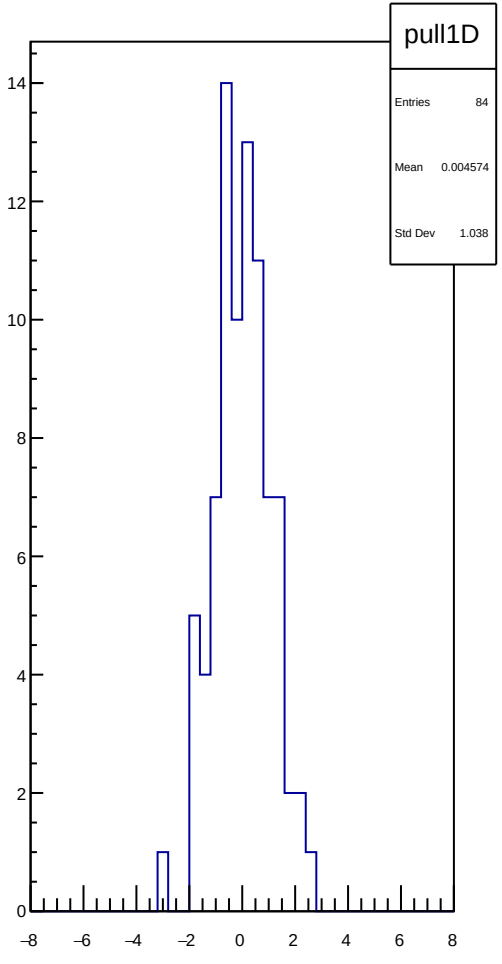

pull1D
Entries 84
Mean 0.006022
Std Dev 0.6639

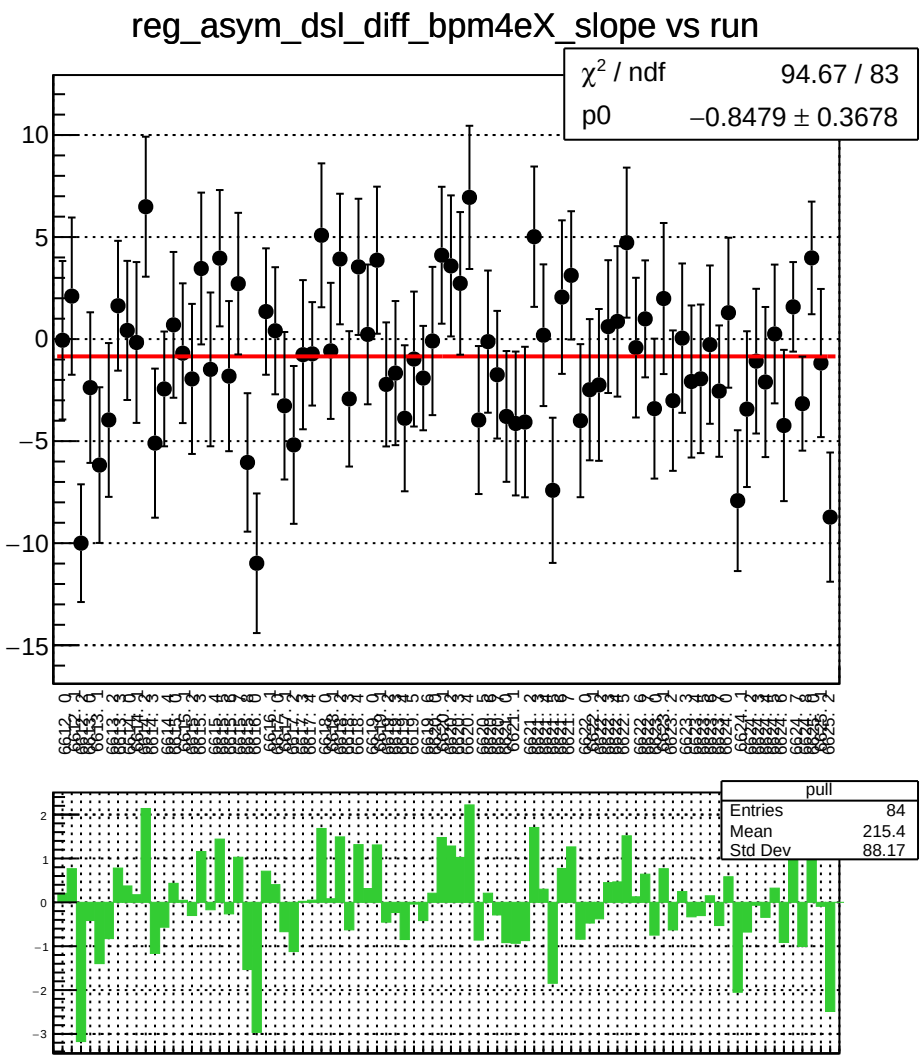

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 308.9 / 83
p0 −52.48 ± 0.08694
pull
Entries 84
Mean −591.5
Std Dev 0
pull1D
Entries 84
Mean 0.09675
Std Dev 1.581

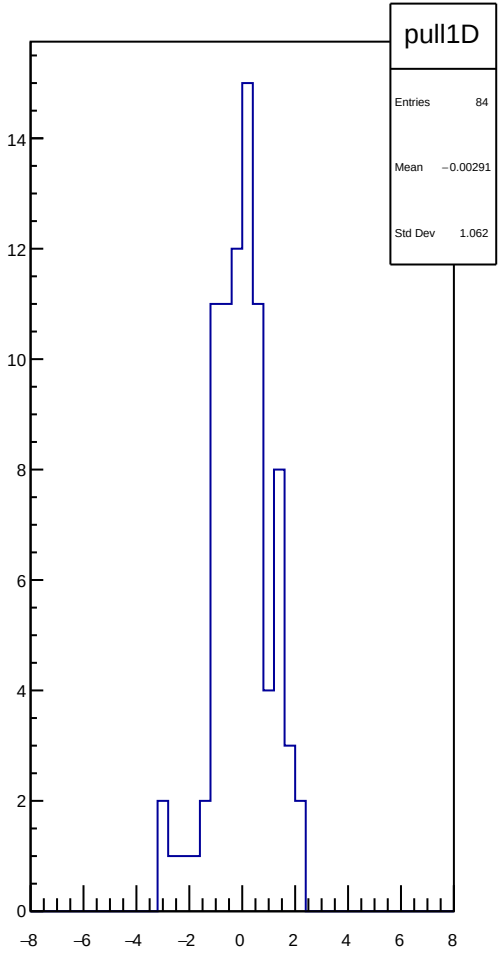

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 92.13 / 83
p0 0.8507 ± 0.3576
pull
Entries 84
Mean 27.48
Std Dev 192.1

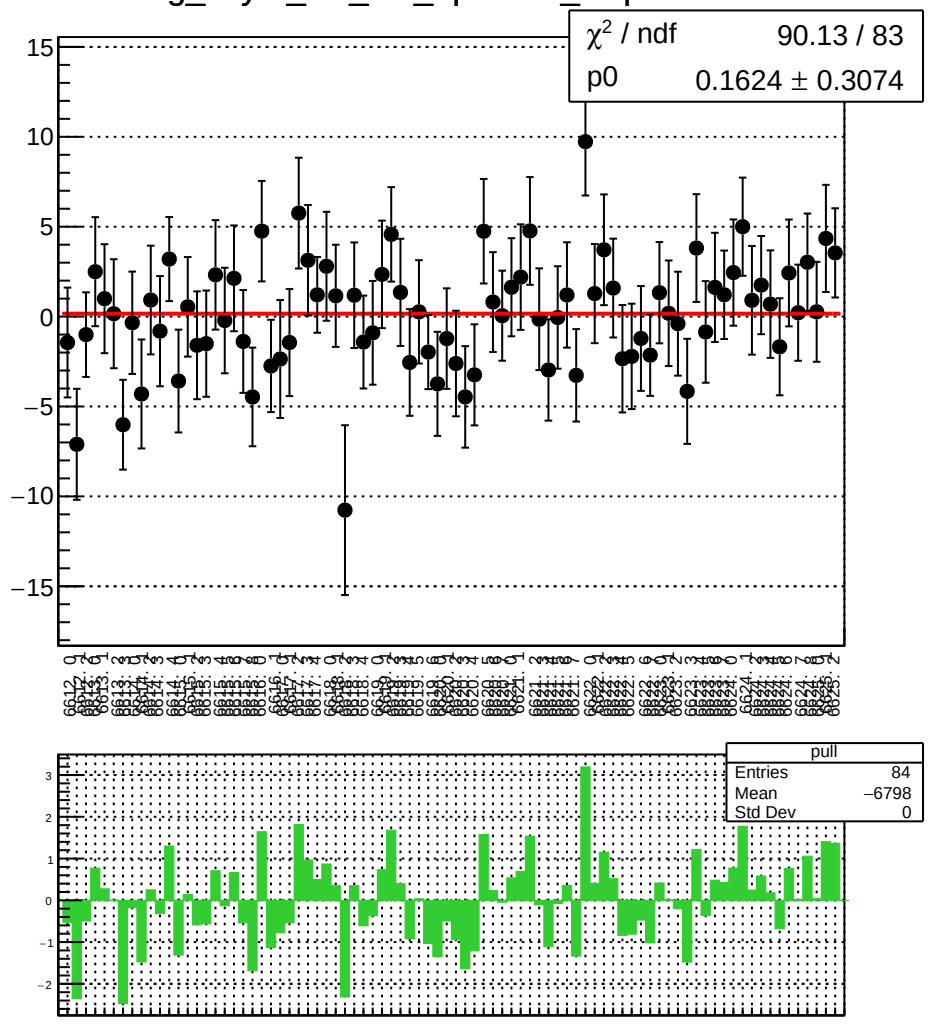

pull1D
Entries 84
Mean 0.003018
Std Dev 1.047

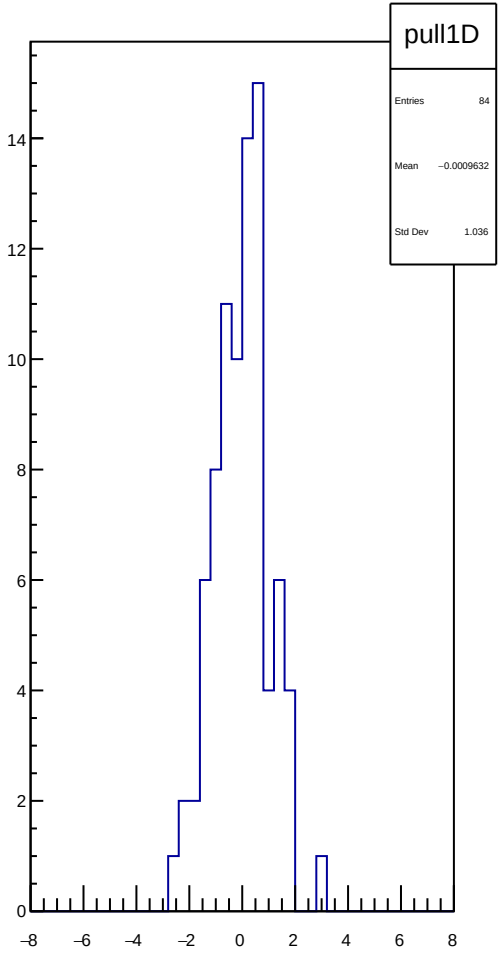

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 90.52 / 83
p0 −0.2015 ± 0.2608
pull
Entries 84
Mean −1352
Std Dev 0

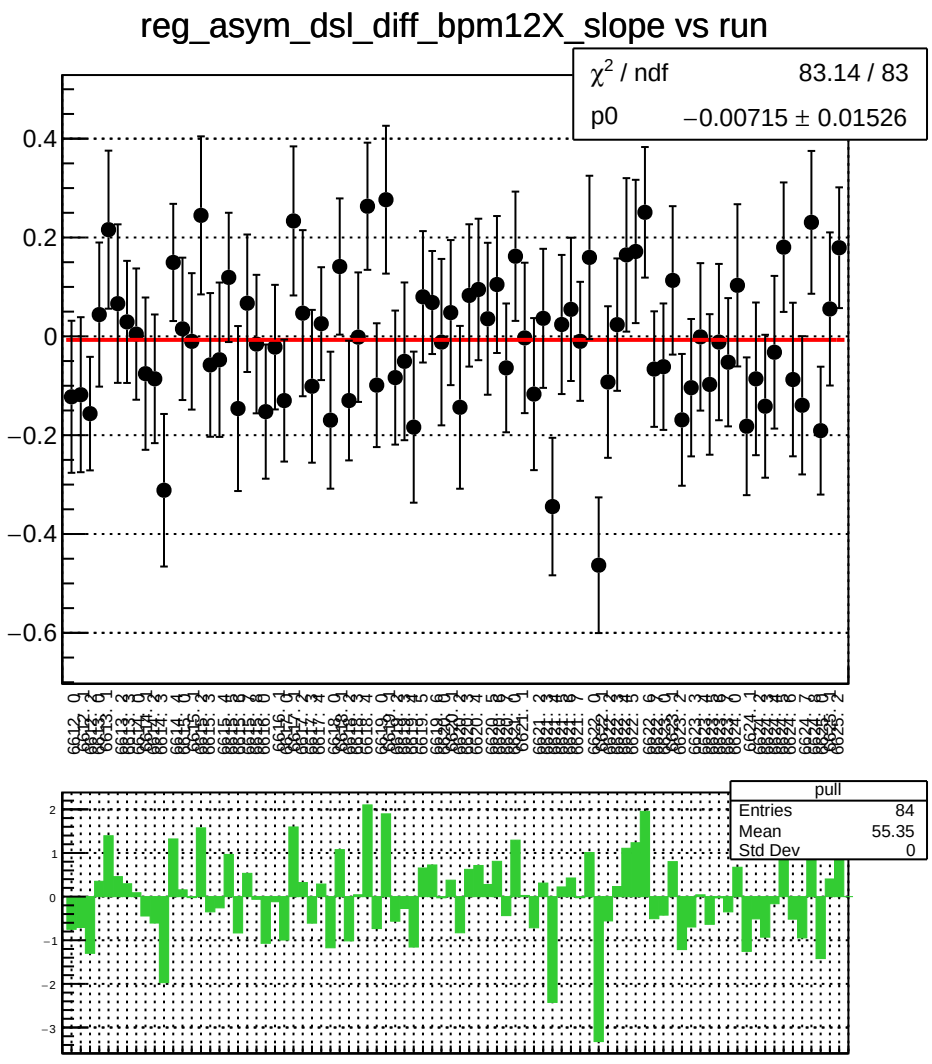

pull1D
Entries 84
Mean 0.004574
Std Dev 1.038

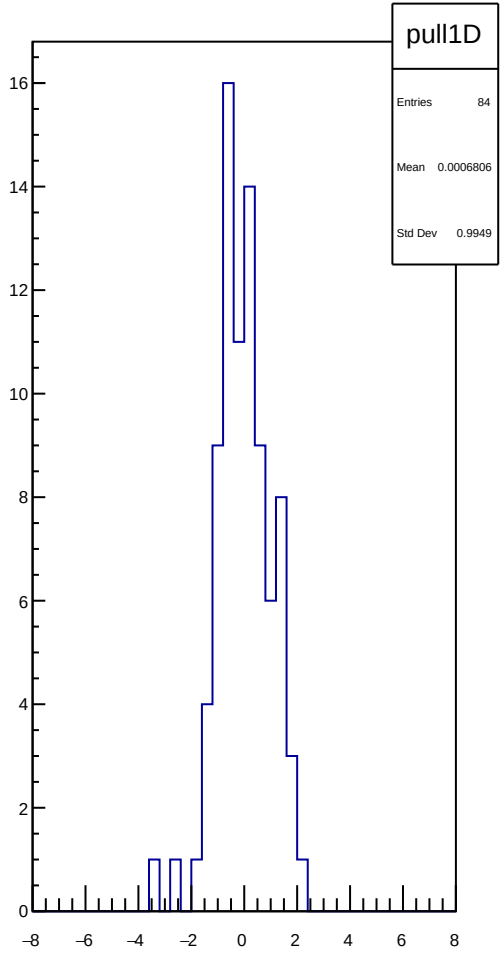

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 94.67 / 83
p0 −0.8479 ± 0.3678
pull
Entries 84
Mean 215.4
Std Dev 88.17

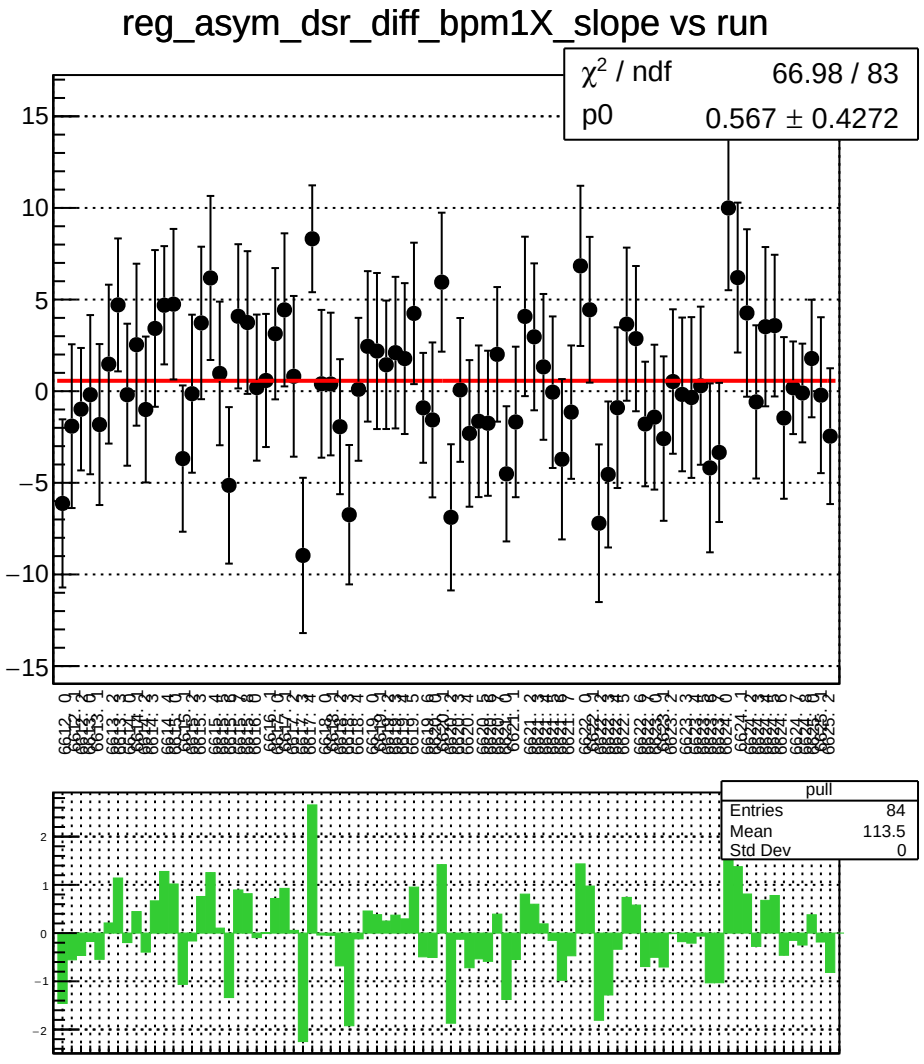

pull1D
Entries 84
Mean −0.00291
Std Dev 1.062

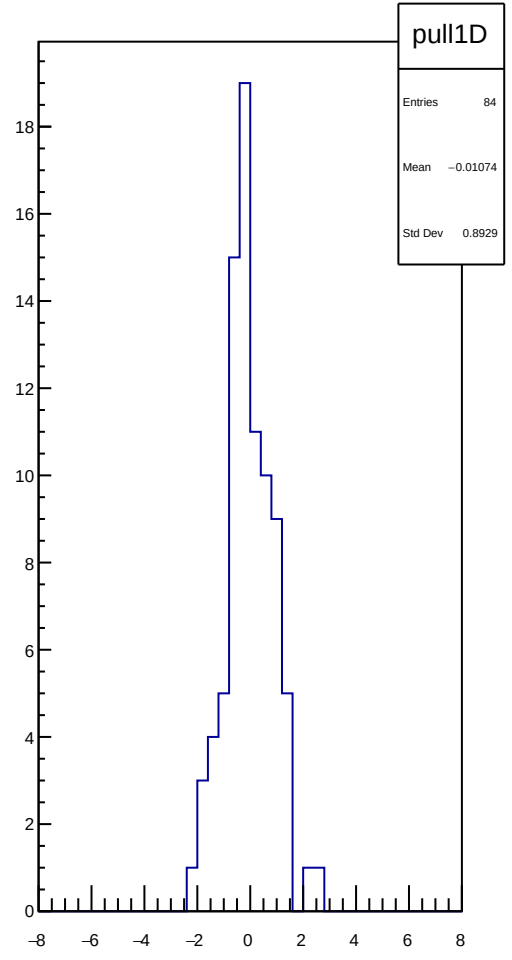

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 90.13 / 83
p0 0.1624 ± 0.3074
pull
Entries 84
Mean −6798
Std Dev 0

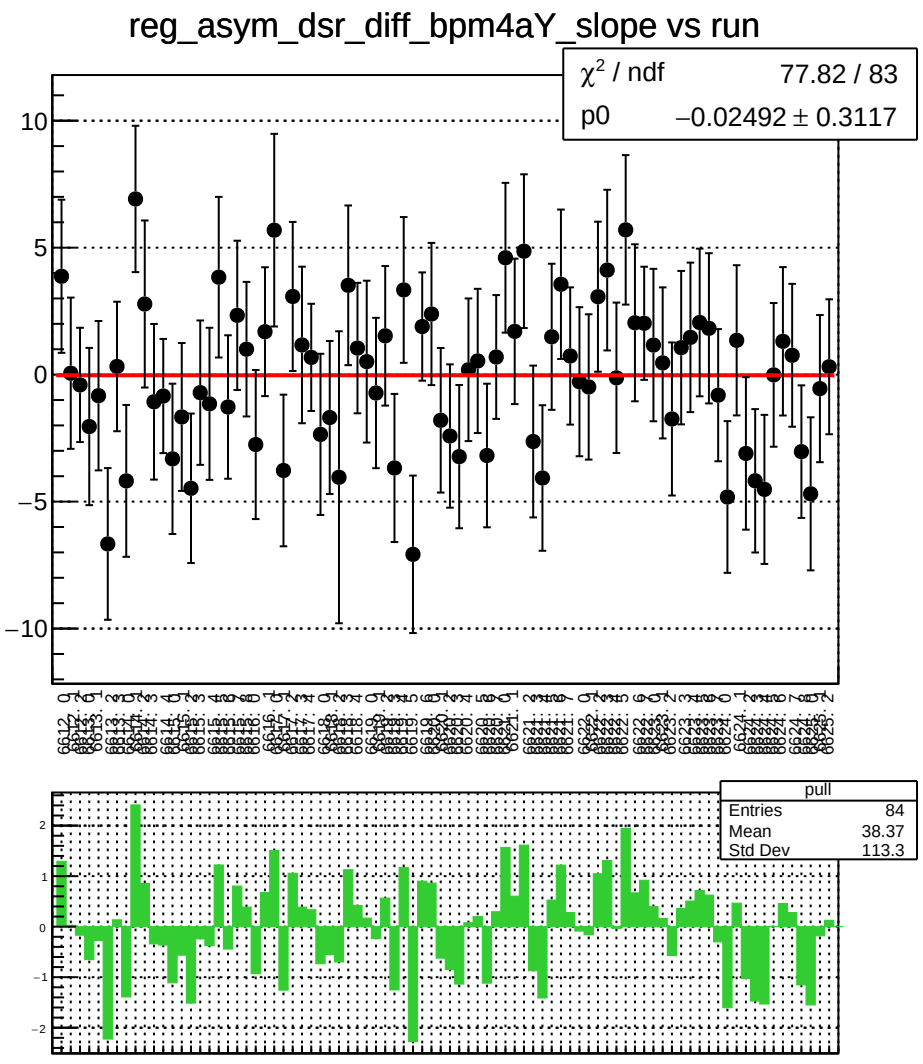

pull1D
Entries 84
Mean −0.0009632
Std Dev 1.036

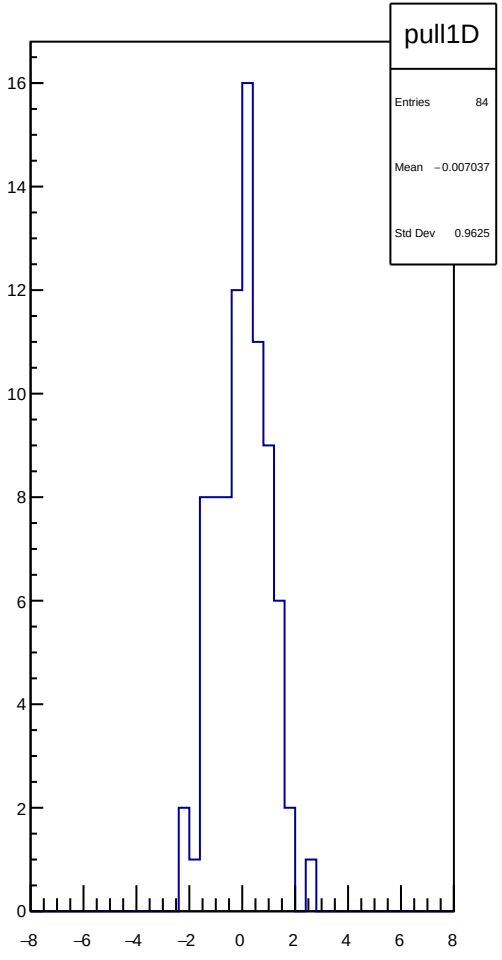

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 83.14 / 83
p0 −0.00715 ± 0.01526
pull
Entries 84
Mean 55.35
Std Dev 0

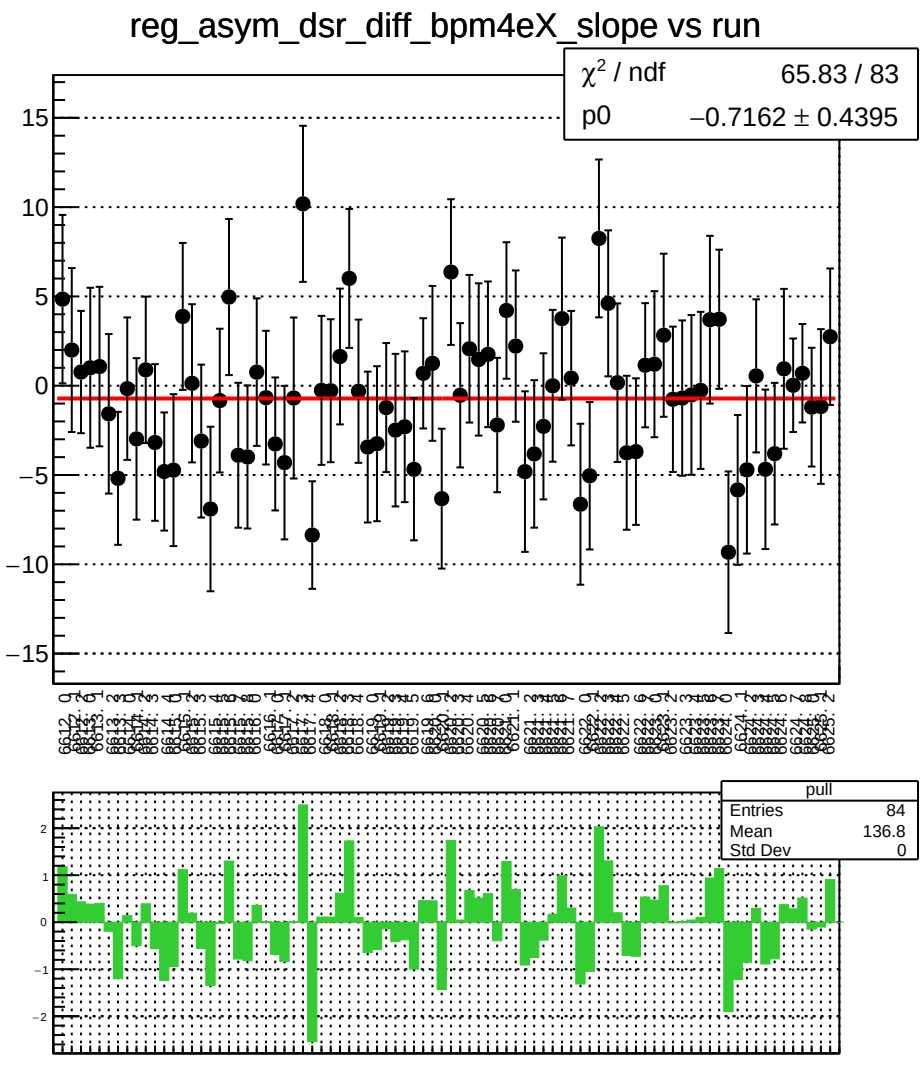

pull1D
Entries 84
Mean 0.0006806
Std Dev 0.9949

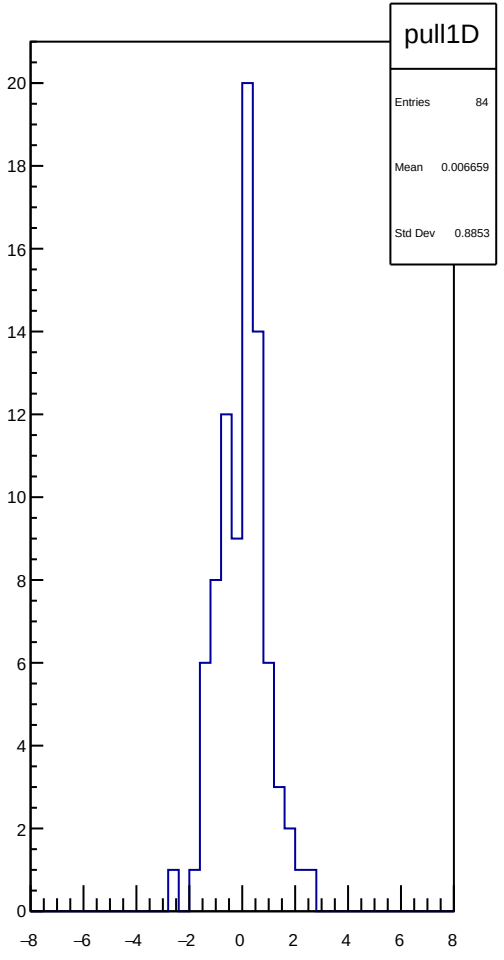

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 66.98 / 83
p0 0.567 ± 0.4272
pull
Entries 84
Mean 113.5
Std Dev 0

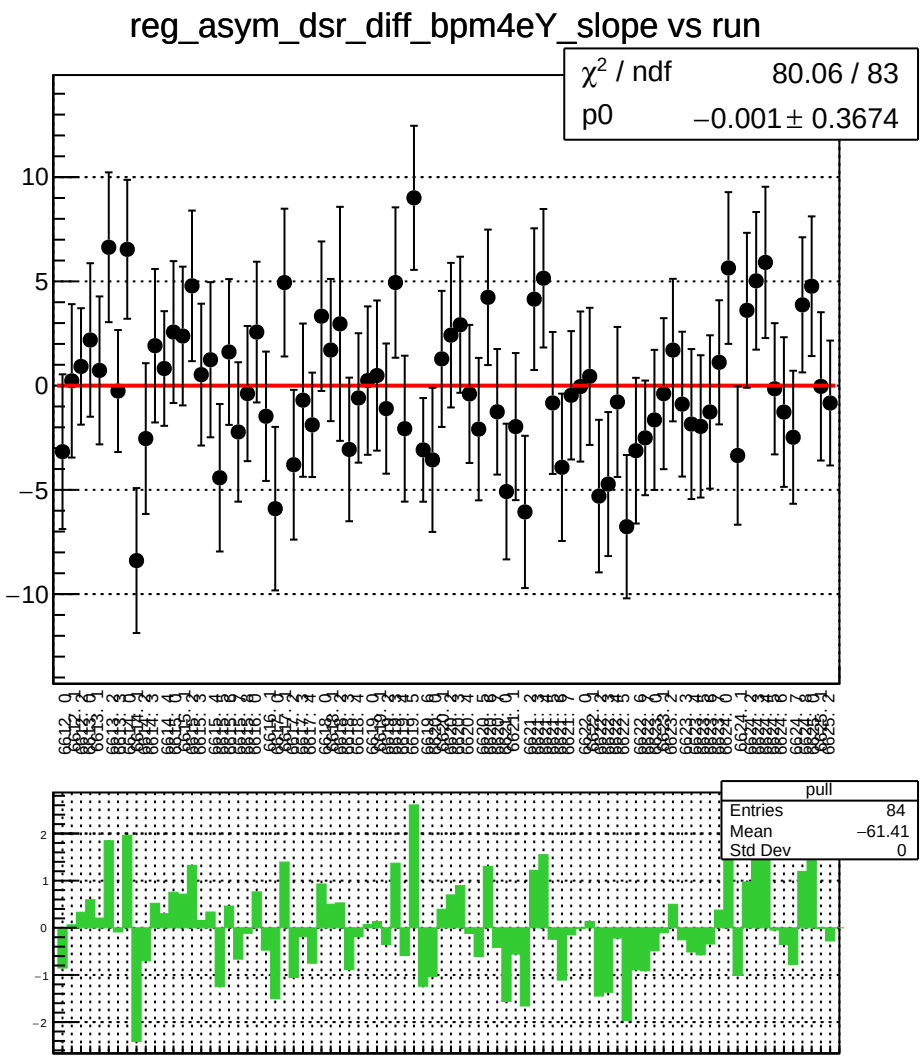

pull1D
Entries 84
Mean −0.01074
Std Dev 0.8929

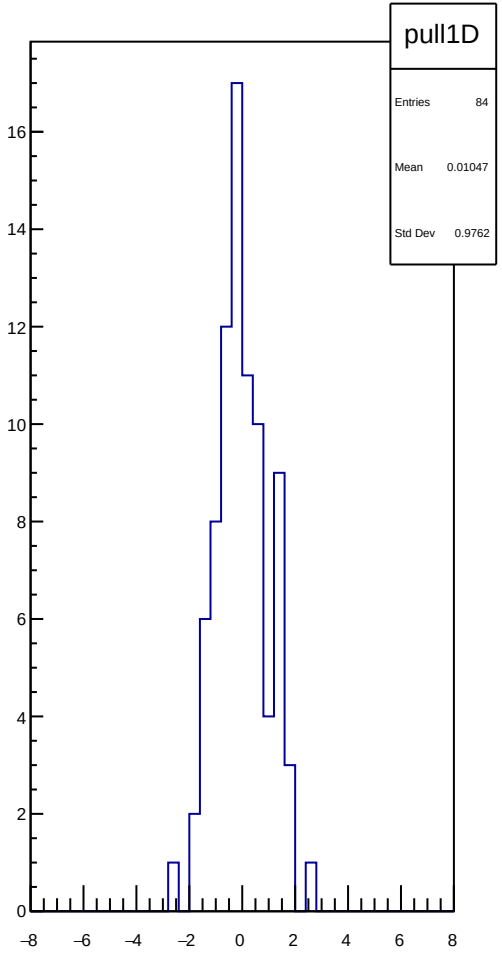

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 77.82 / 83
p0 −0.02492 ± 0.3117
pull
Entries 84
Mean 38.37
Std Dev 113.3

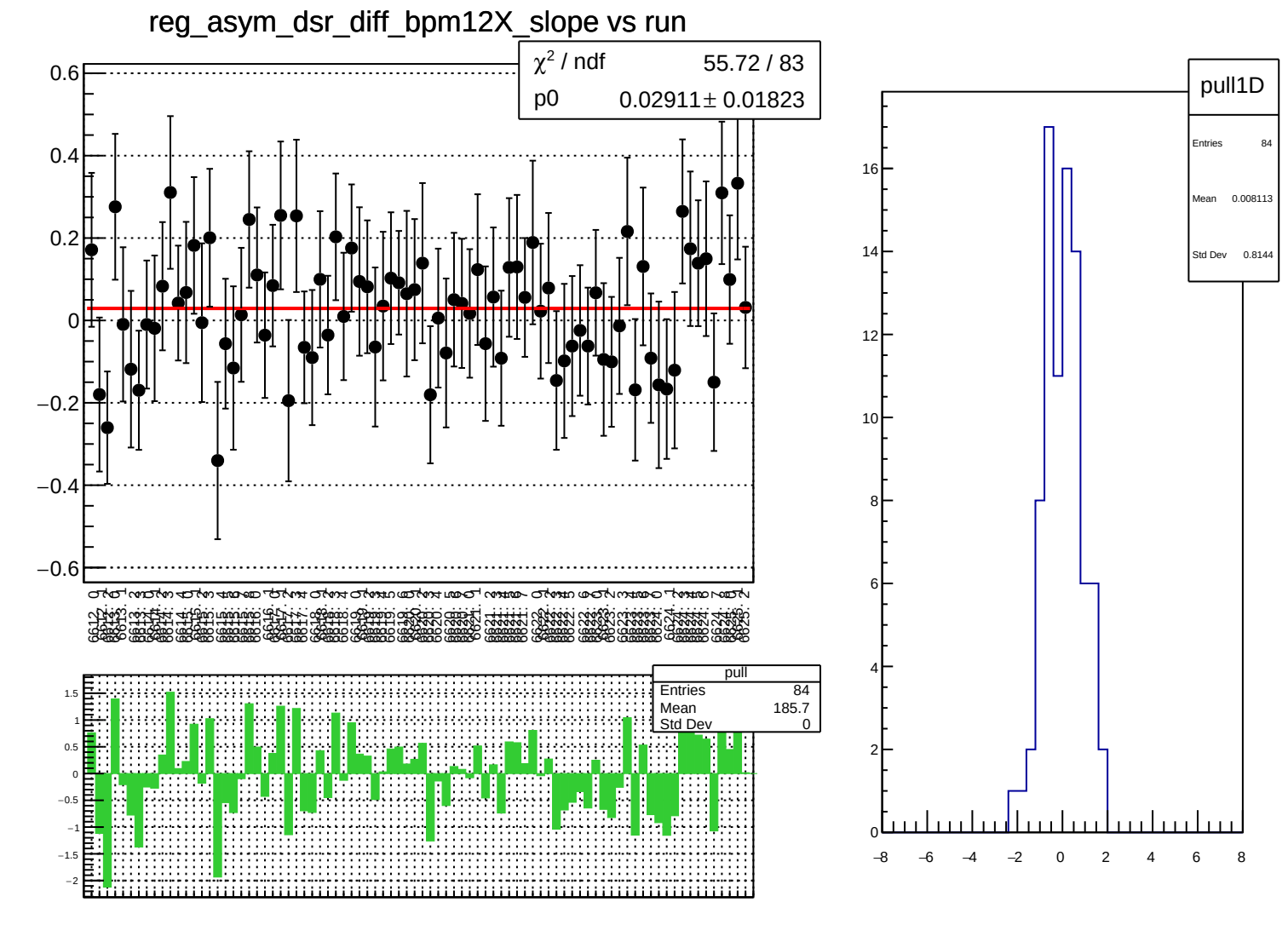

pull1D
Entries 84
Mean −0.007037
Std Dev 0.9625

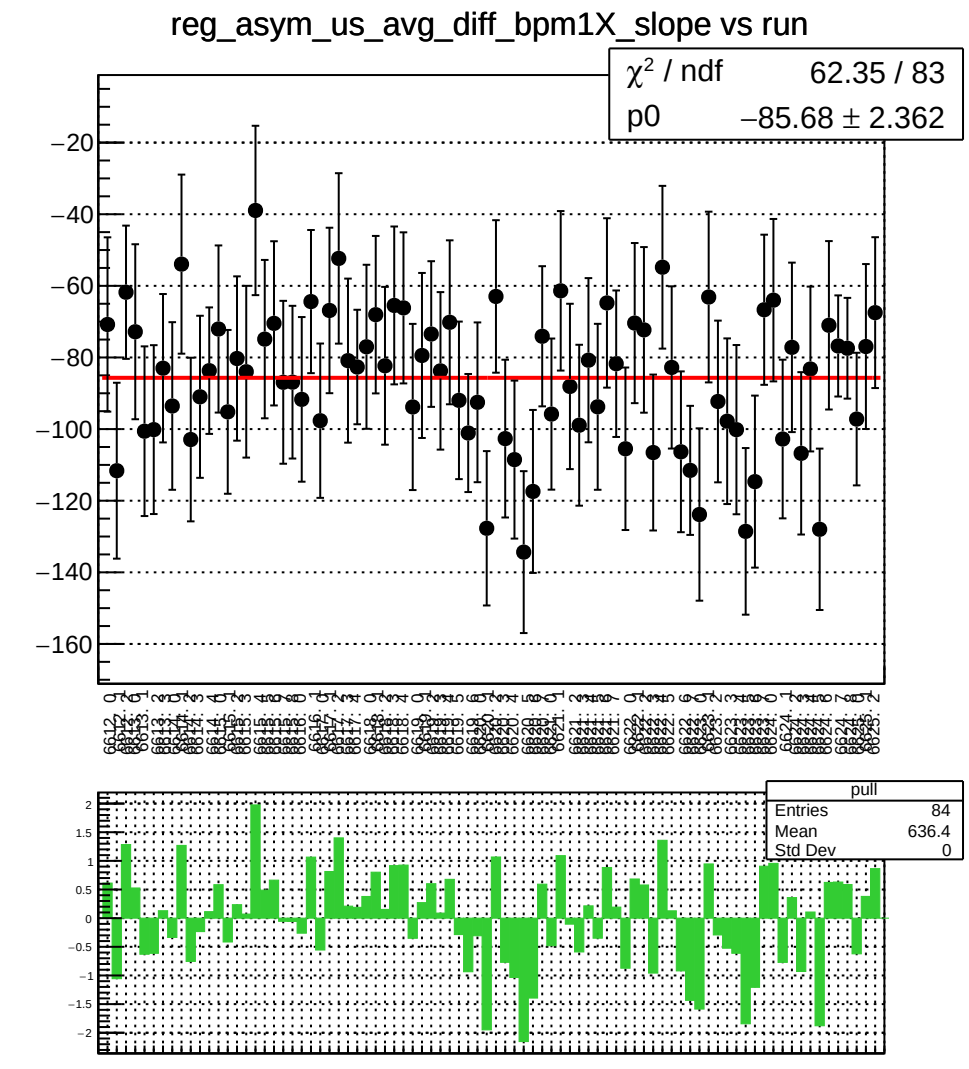

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 65.83 / 83
p0 −0.7162 ± 0.4395
pull
Entries 84
Mean 136.8
Std Dev 0

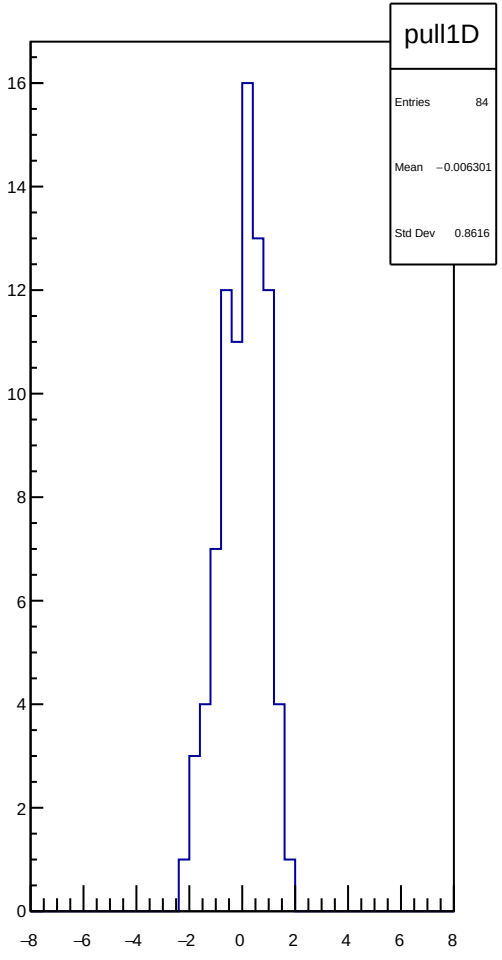

pull1D
Entries 84
Mean 0.006659
Std Dev 0.8853

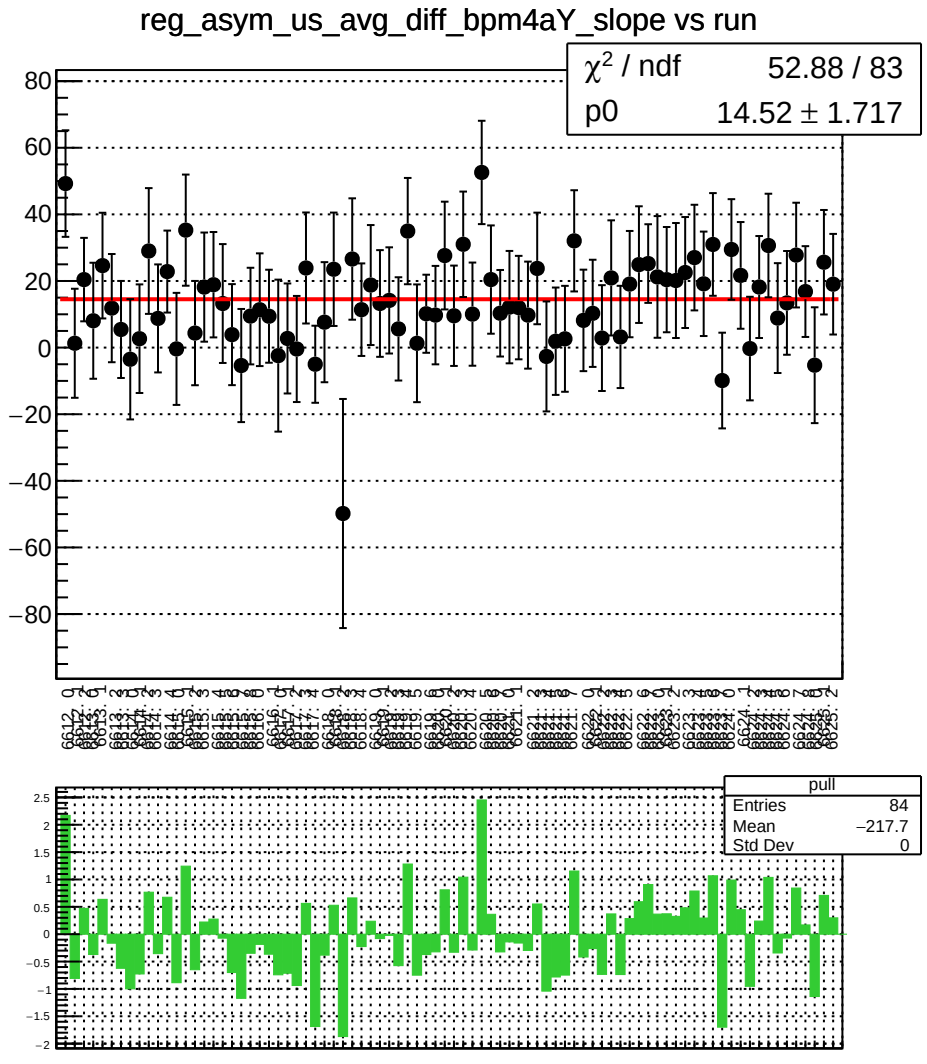

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 80.06 / 83
p0 −0.001 ± 0.3674
pull
Entries 84
Mean −61.41
Std Dev 0

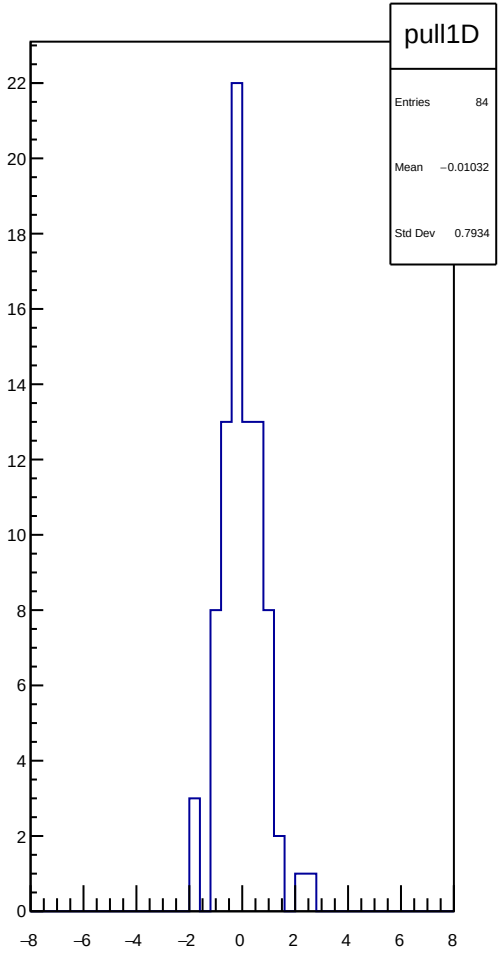

pull1D
Entries 84
Mean 0.01047
Std Dev 0.9762

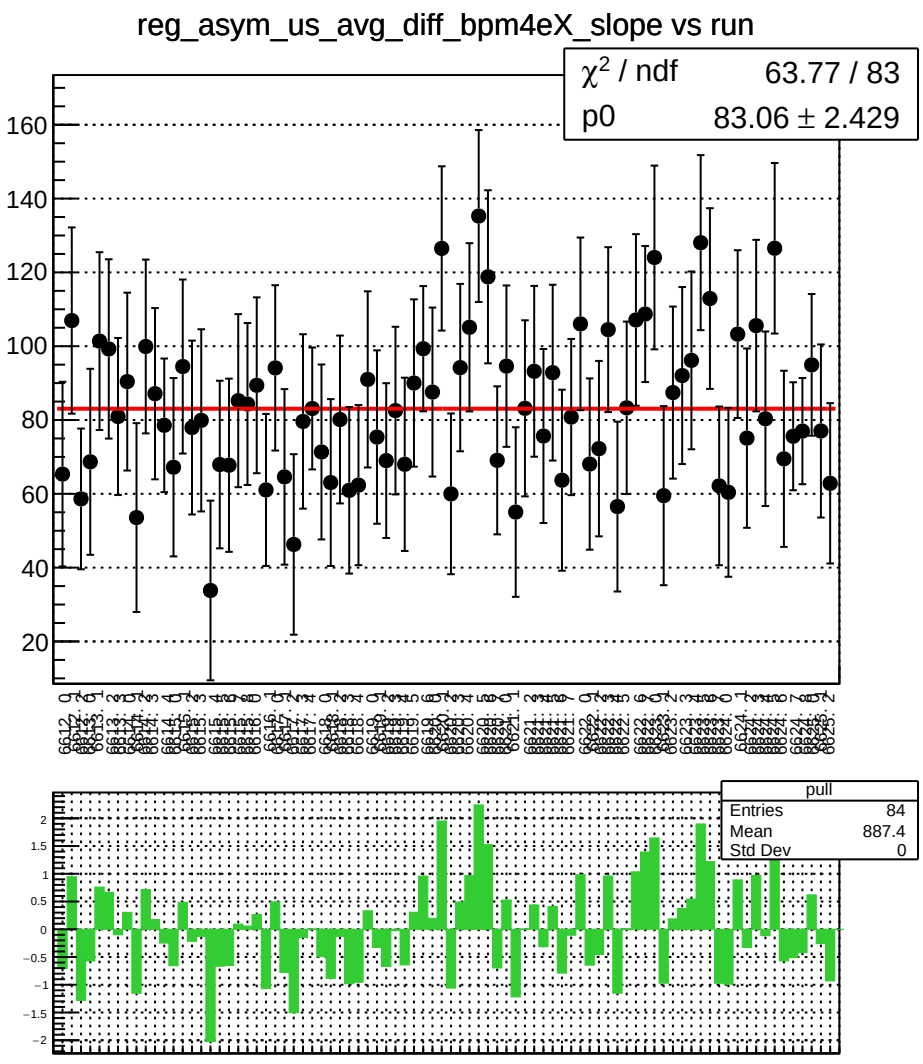

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 55.72 / 83
p0 0.02911 ± 0.01823
pull
Entries 84
Mean 185.7
Std Dev 0
pull1D
Entries 84
Mean 0.008113
Std Dev 0.8144

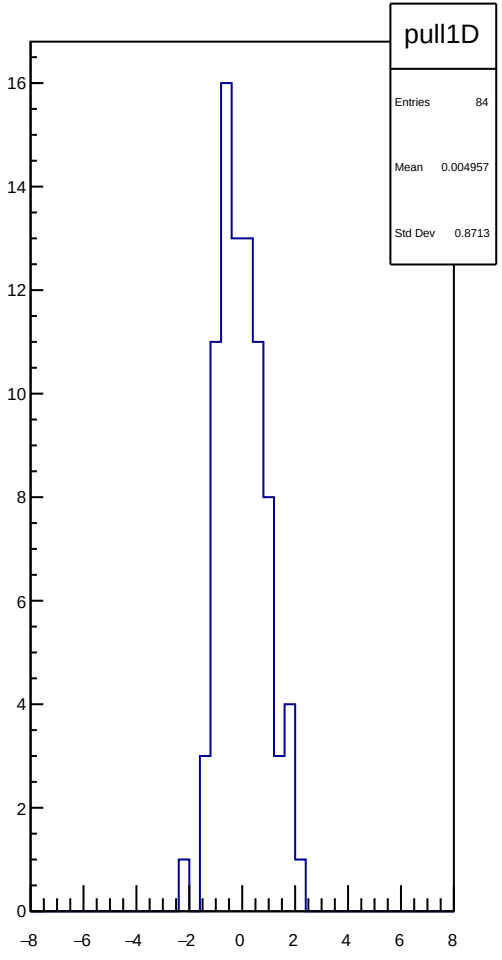

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 62.35 / 83
p0 −85.68 ± 2.362
pull
Entries 84
Mean 636.4
Std Dev 0

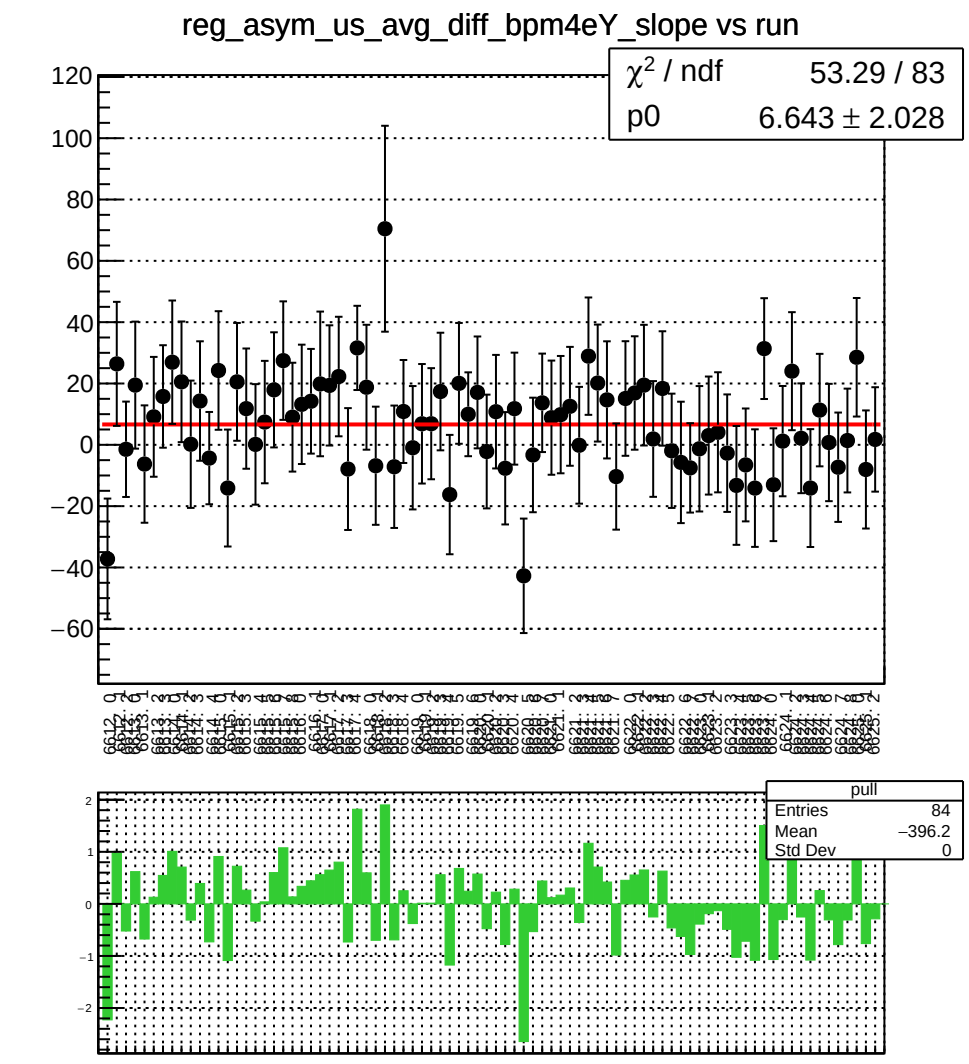

pull1D
Entries 84
Mean −0.006301
Std Dev 0.8616

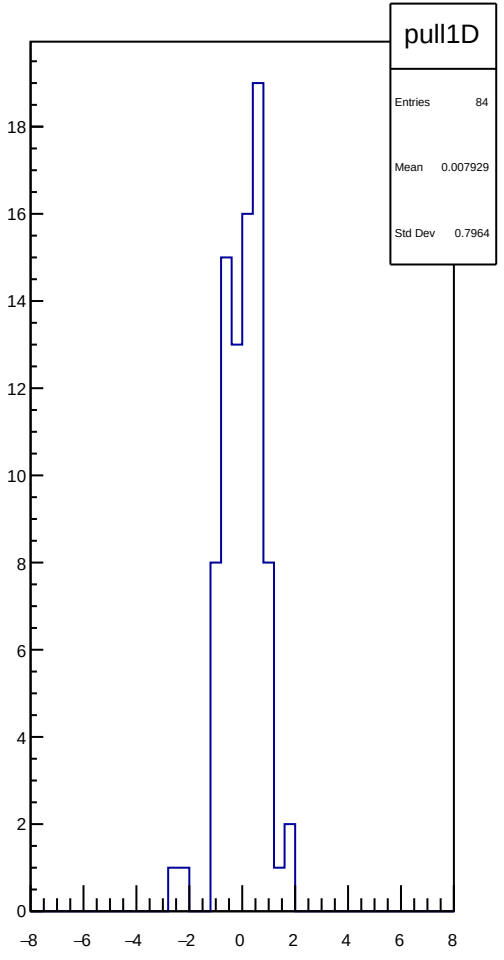

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 52.88 / 83
p0 14.52 ± 1.717
pull
Entries 84
Mean −217.7
Std Dev 0

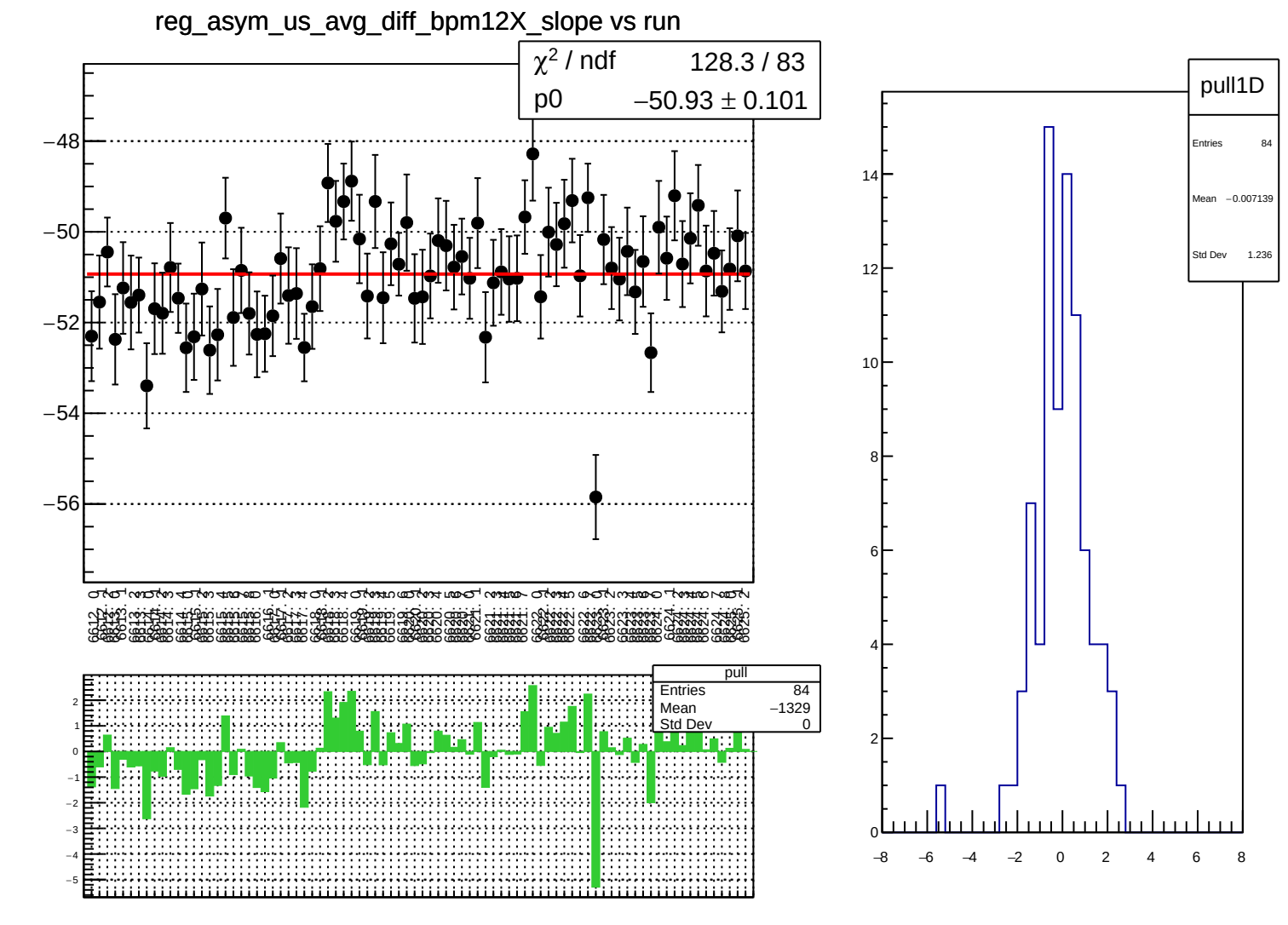

pull1D
Entries 84
Mean −0.01032
Std Dev 0.7934

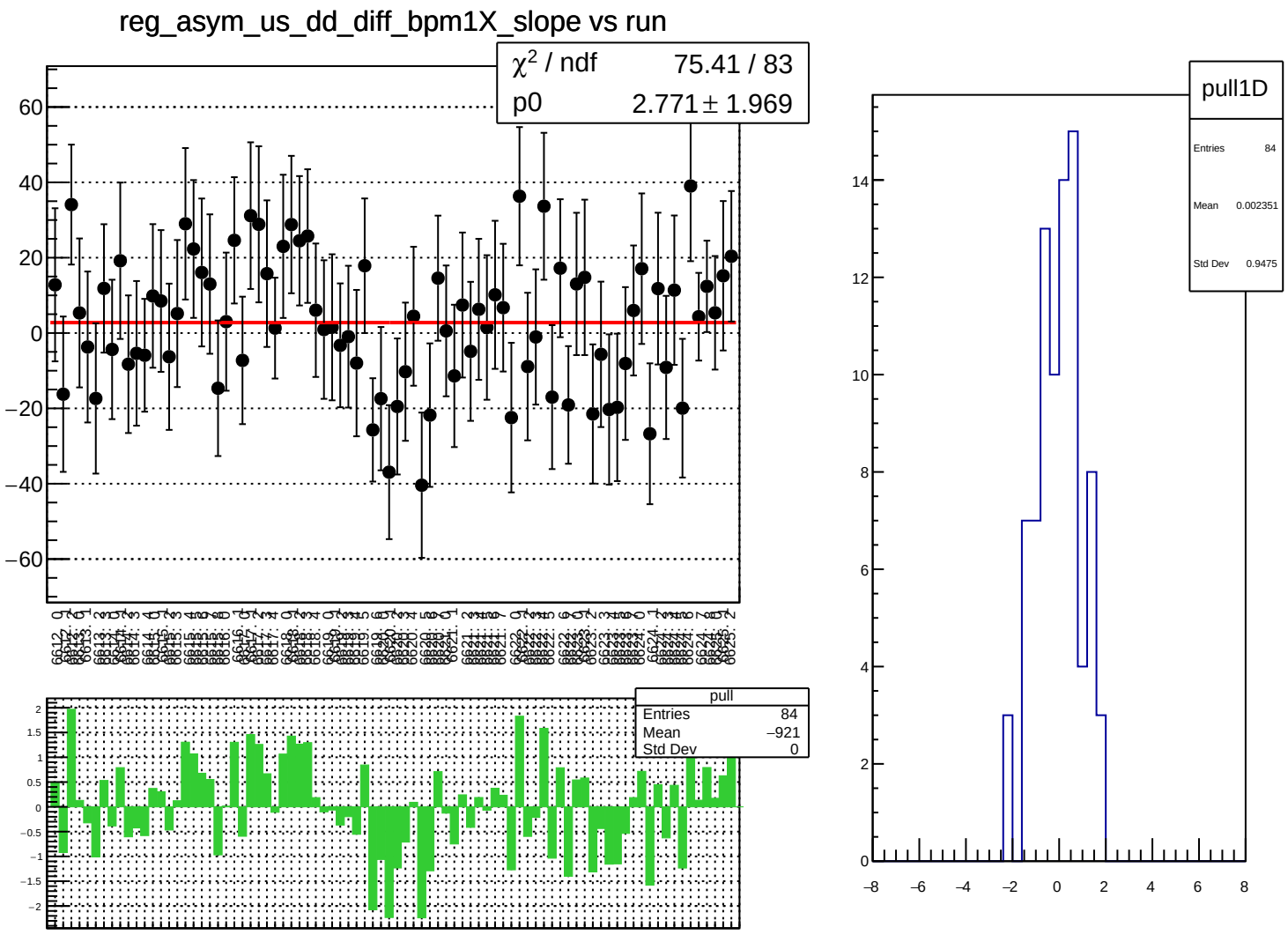

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 63.77 / 83
p0 83.06 ± 2.429
pull
Entries 84
Mean 887.4
Std Dev 0

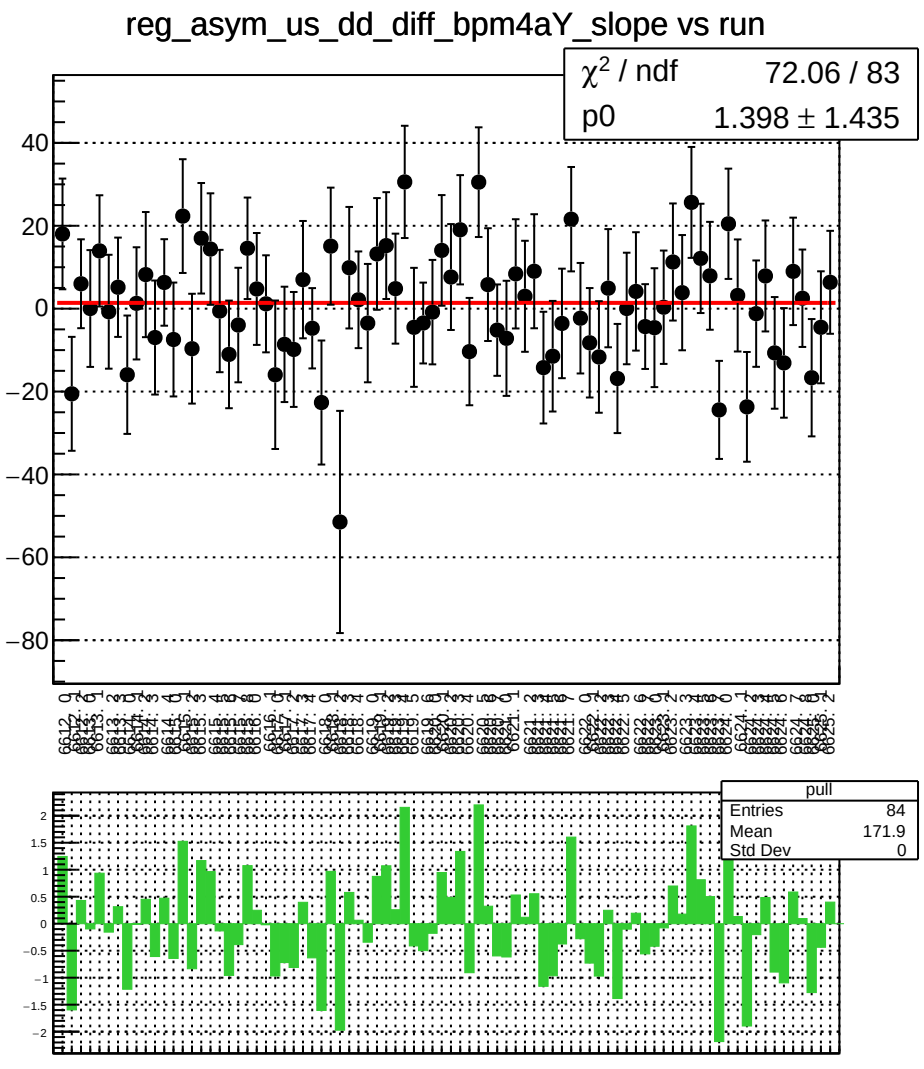

pull1D
Entries 84
Mean 0.004957
Std Dev 0.8713

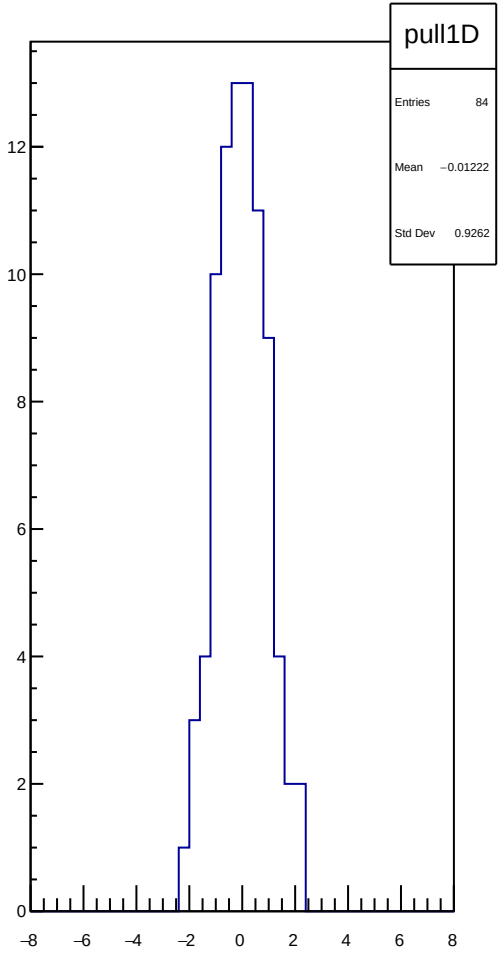

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 53.29 / 83
p0 6.643 ± 2.028
pull
Entries 84
Mean −396.2
Std Dev 0

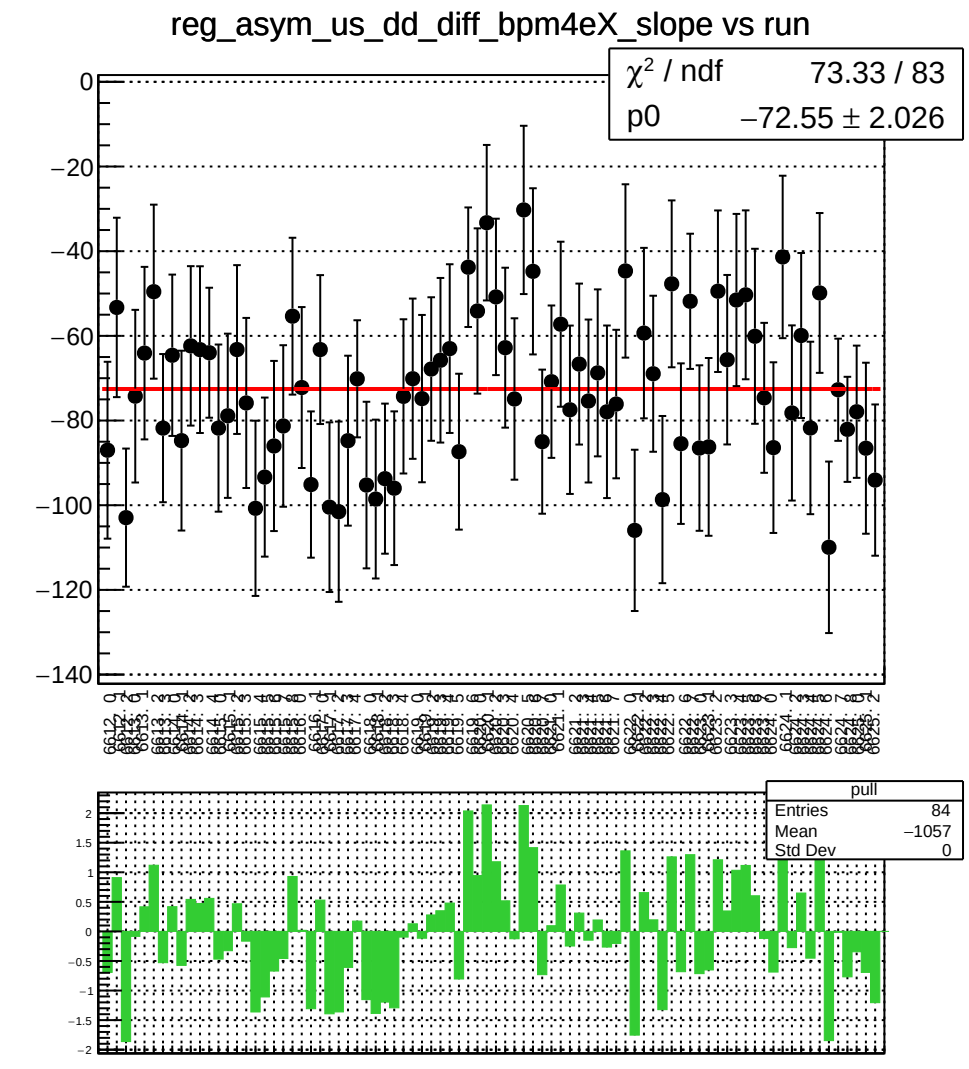

pull1D
Entries 84
Mean 0.007929
Std Dev 0.7964

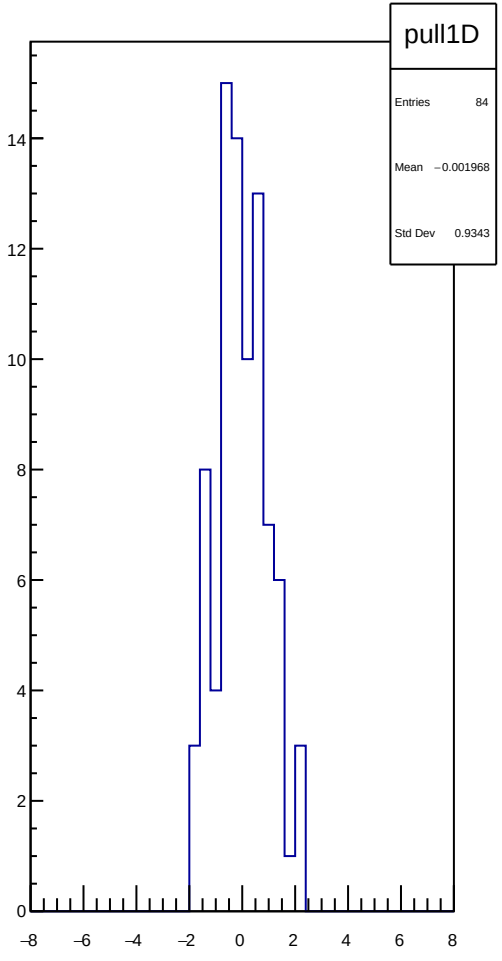

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 128.3 / 83
p0 −50.93 ± 0.101
−48
−50
−52
−54
−56
pull
Entries 84
Mean −1329
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 84
Mean −0.007139
Std Dev 1.236
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

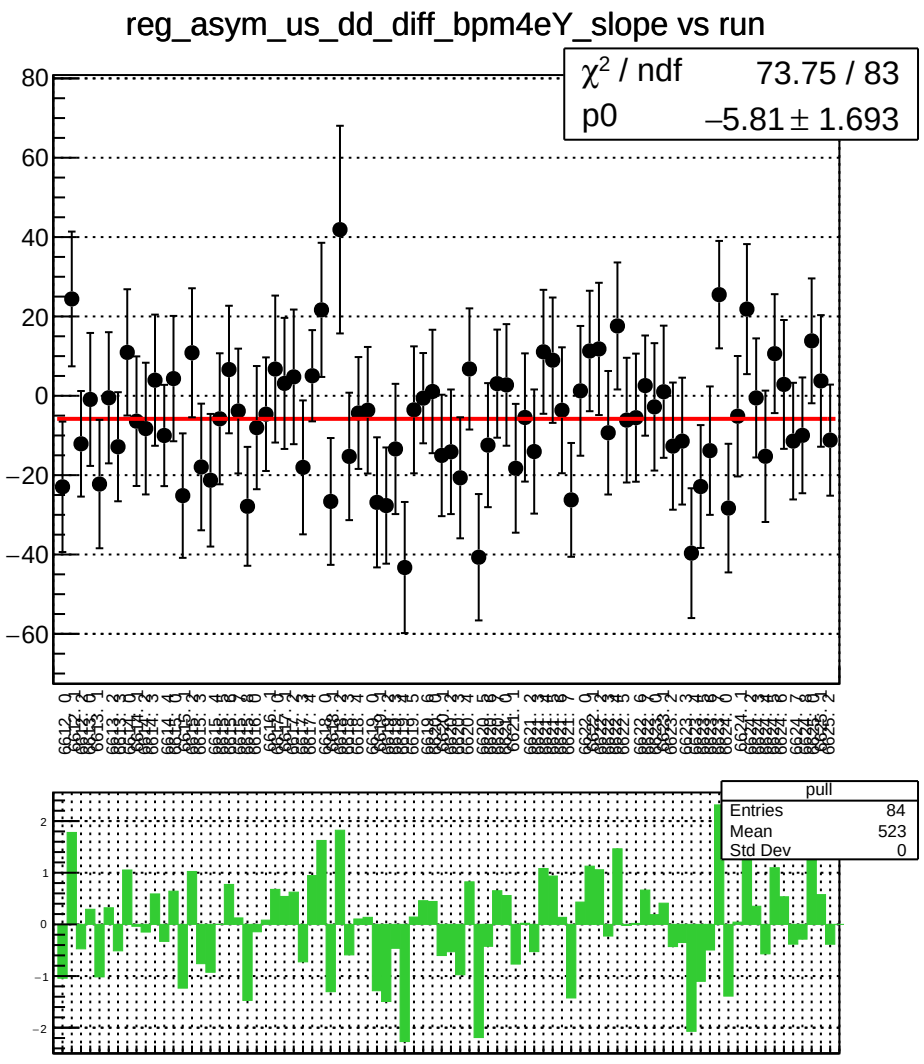

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 75.41 / 83
p0 2.771 ± 1.969
pull
Entries 84
Mean −921
Std Dev 0
pull1D
Entries 84
Mean 0.002351
Std Dev 0.9475

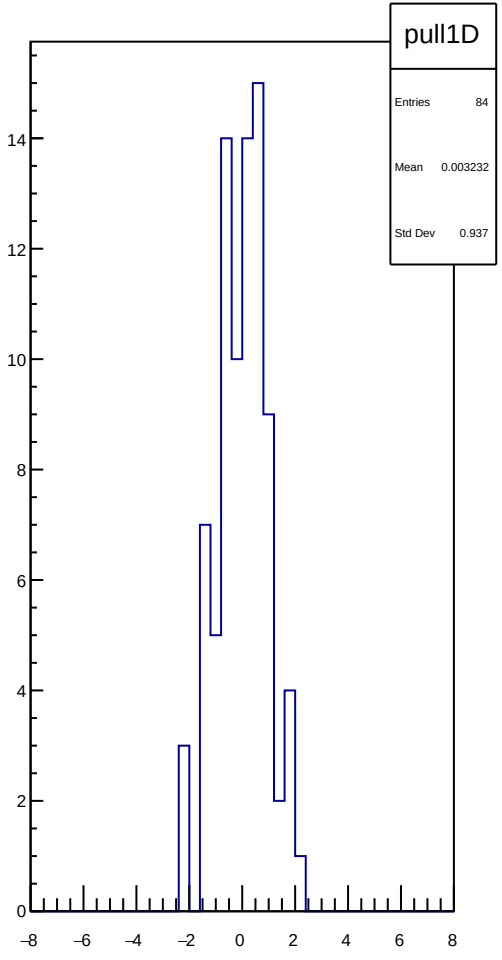

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.06 / 83
p0 1.398 ± 1.435
pull
Entries 84
Mean 171.9
Std Dev 0

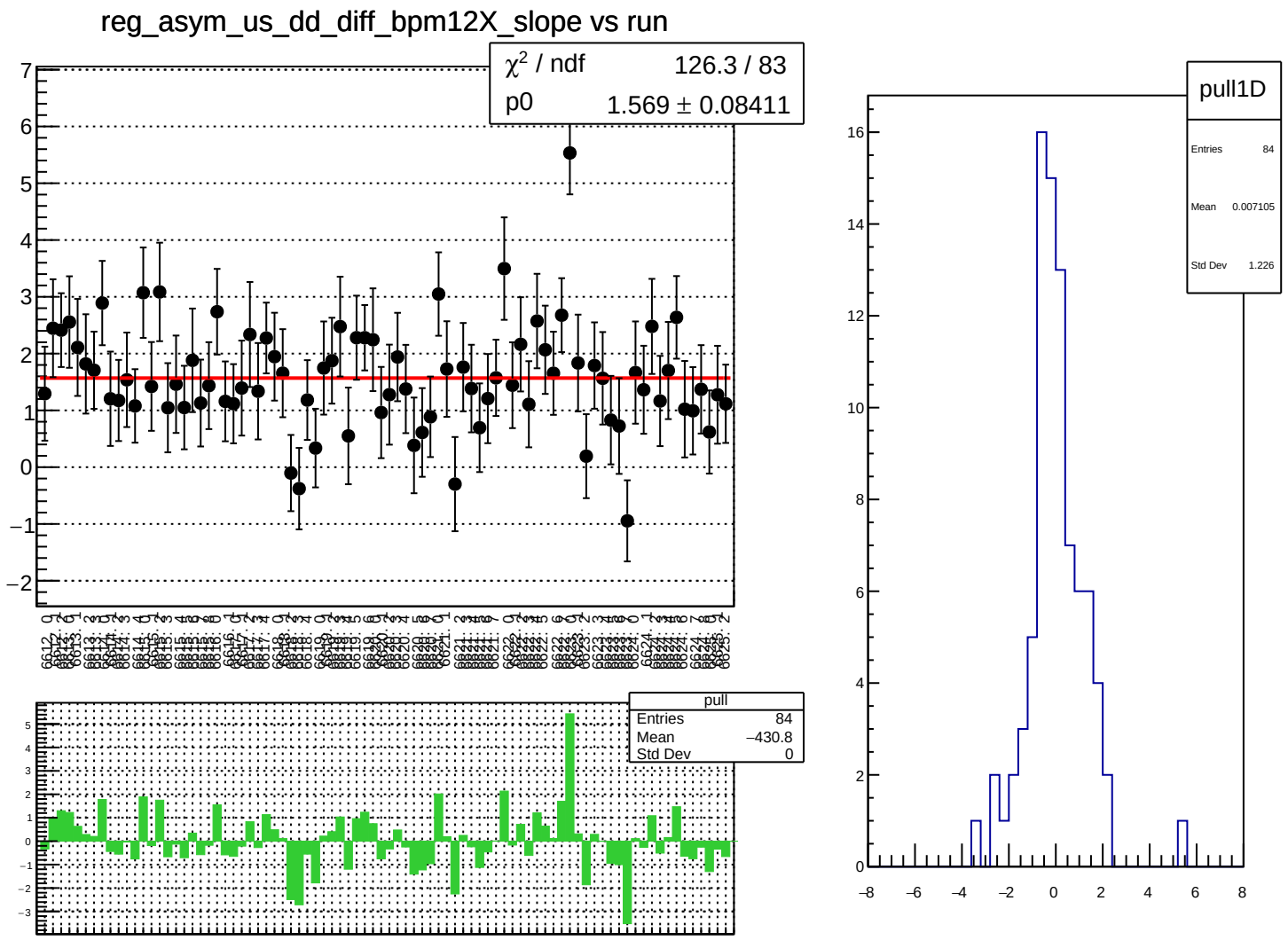

pull1D
Entries 84
Mean −0.01222
Std Dev 0.9262

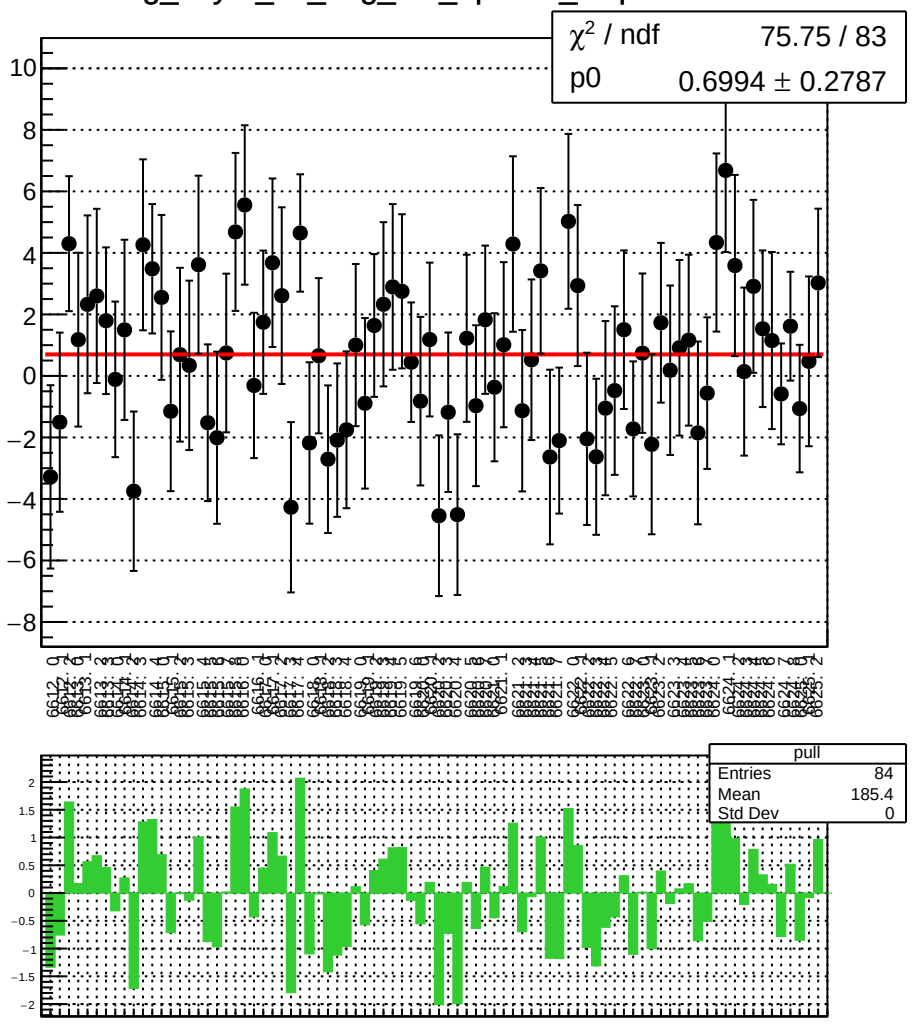

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.33 / 83
p0 −72.55 ± 2.026
pull
Entries 84
Mean −1057
Std Dev 0

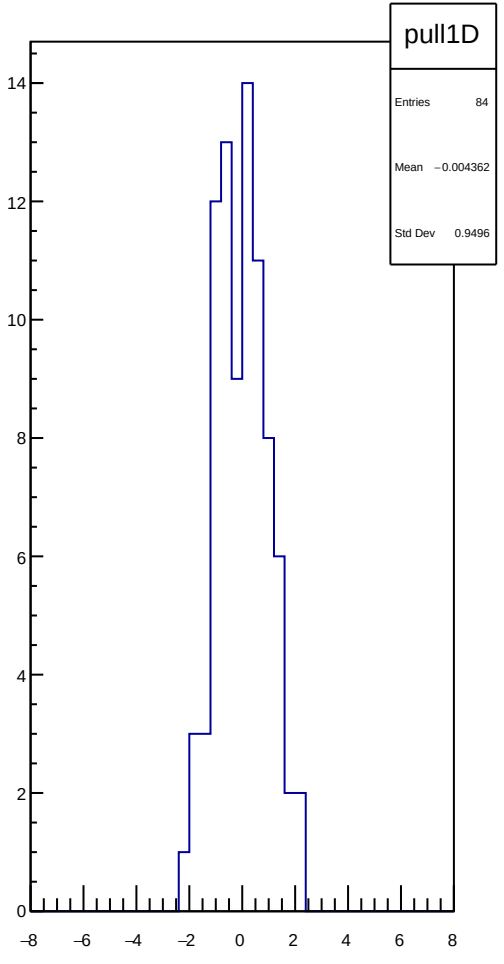

pull1D
Entries 84
Mean −0.001968
Std Dev 0.9343

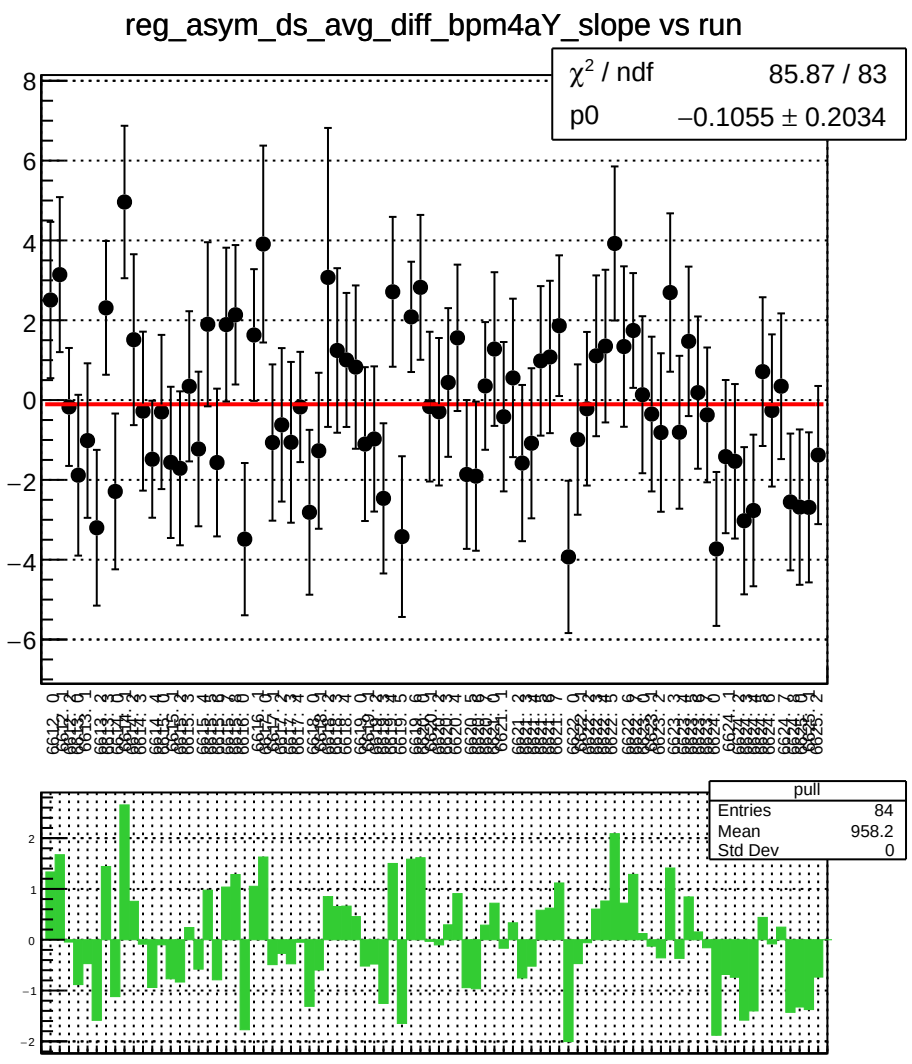

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.75 / 83
p0 −5.81 ± 1.693
pull
Entries 84
Mean 523
Std Dev 0

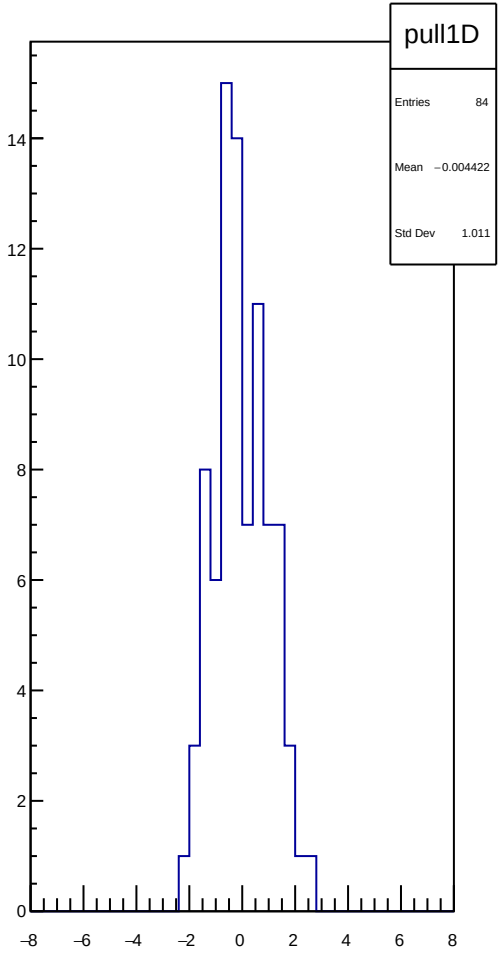

pull1D
Entries 84
Mean 0.003232
Std Dev 0.937

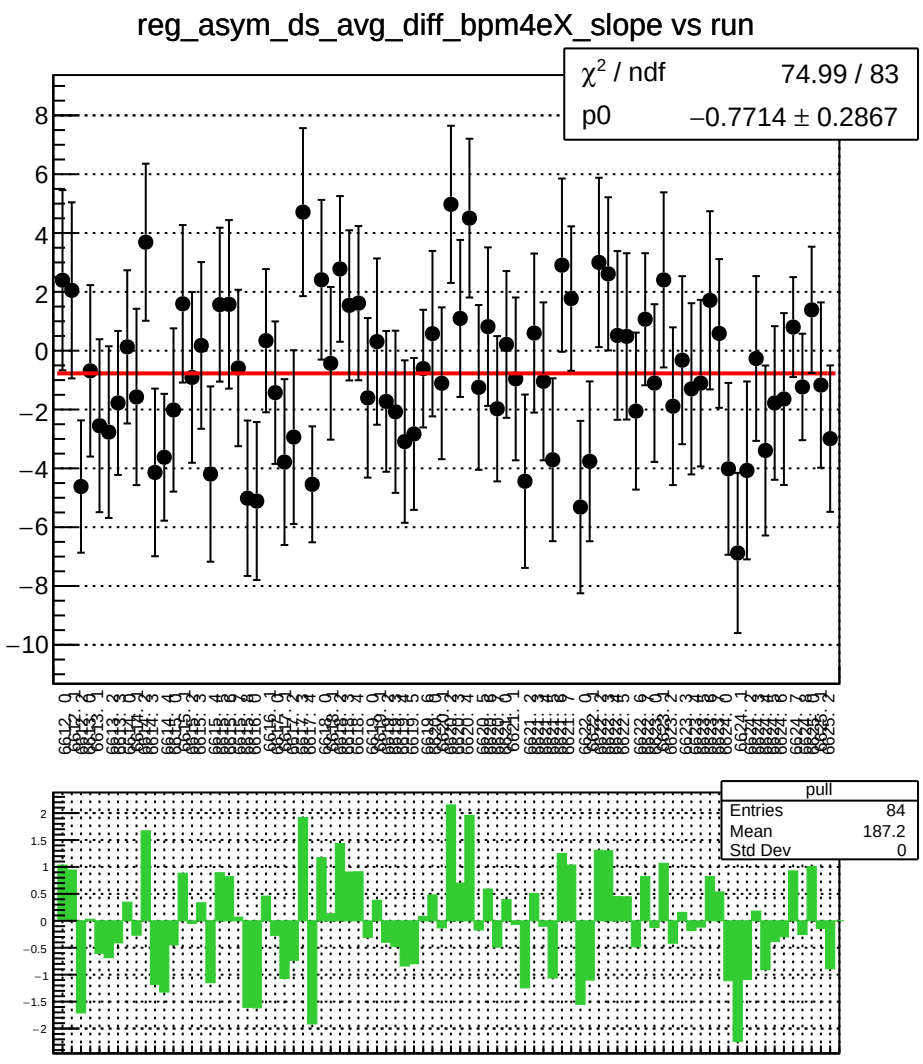

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 126.3 / 83
p0 1.569 ± 0.08411
pull
Entries 84
Mean −430.8
Std Dev 0
pull1D
Entries 84
Mean 0.007105
Std Dev 1.226

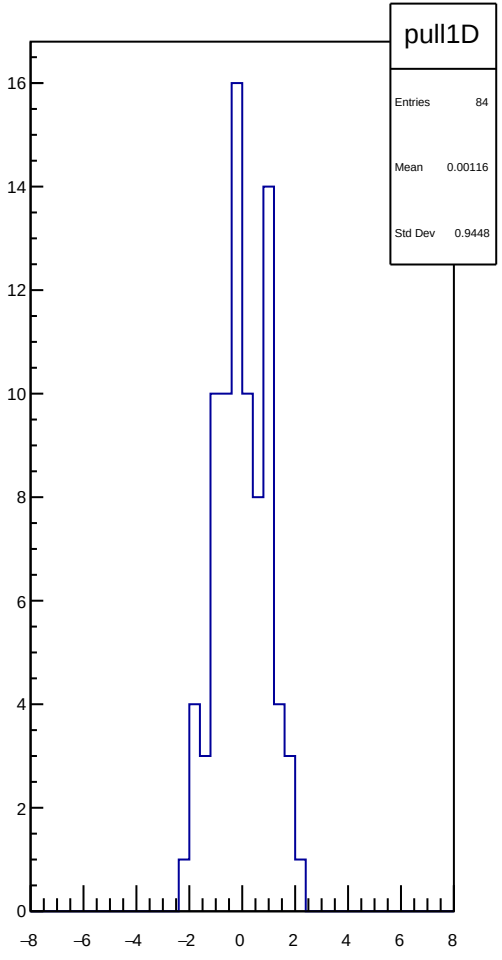

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 75.75 / 83
p0 0.6994 ± 0.2787
pull
Entries 84
Mean 185.4
Std Dev 0

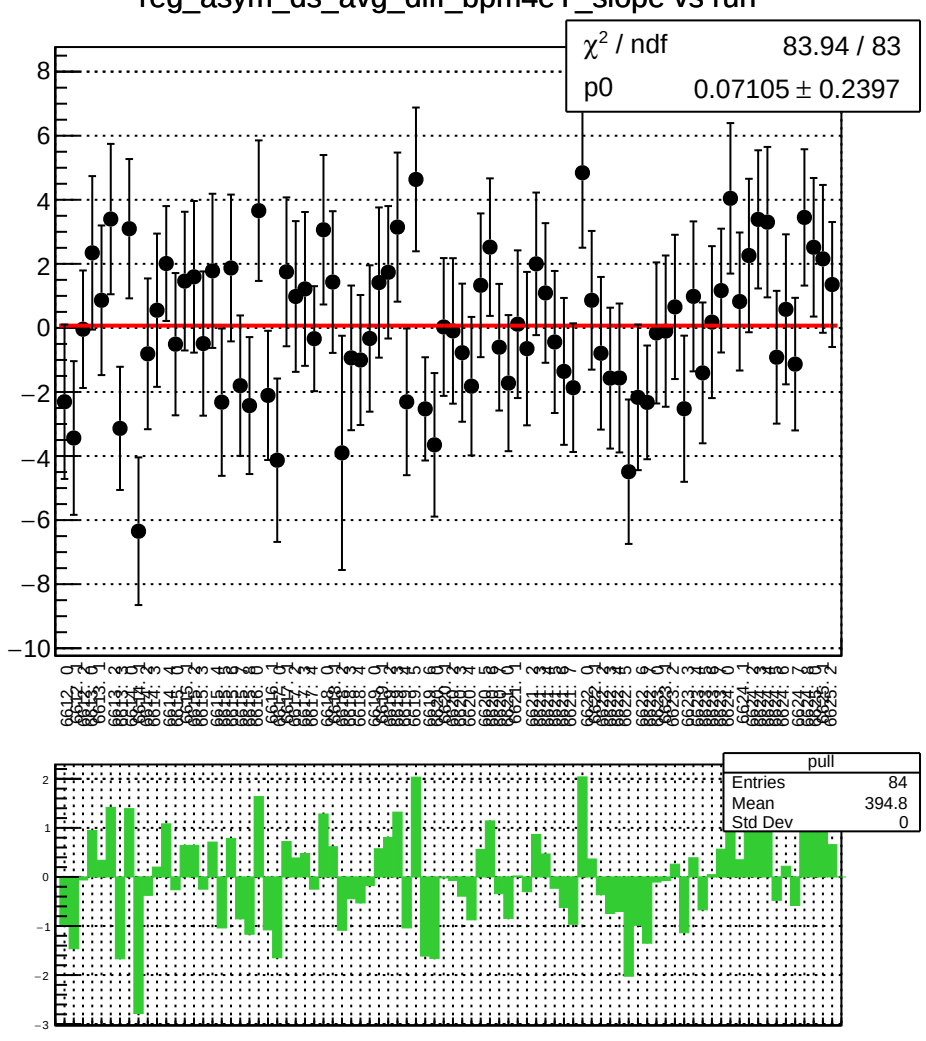

pull1D
Entries 84
Mean −0.004362
Std Dev 0.9496

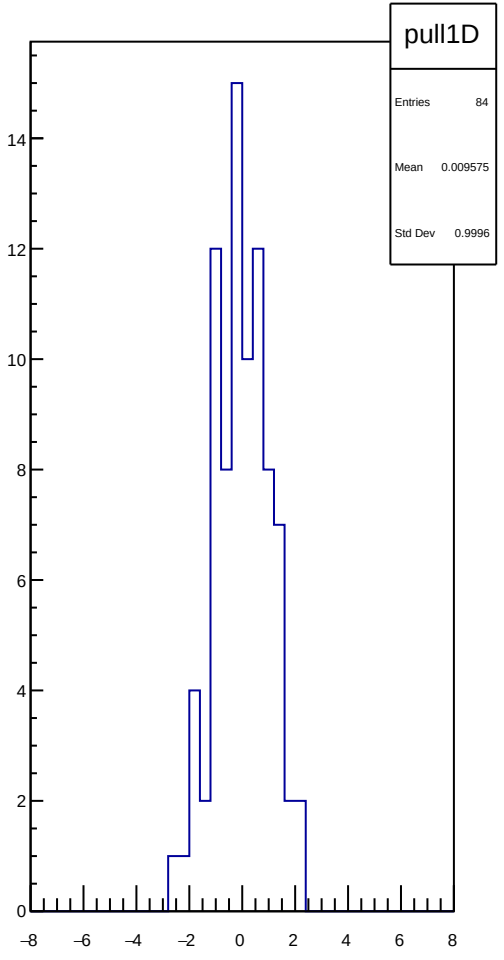

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 85.87 / 83
p0 −0.1055 ± 0.2034
pull
Entries 84
Mean 958.2
Std Dev 0

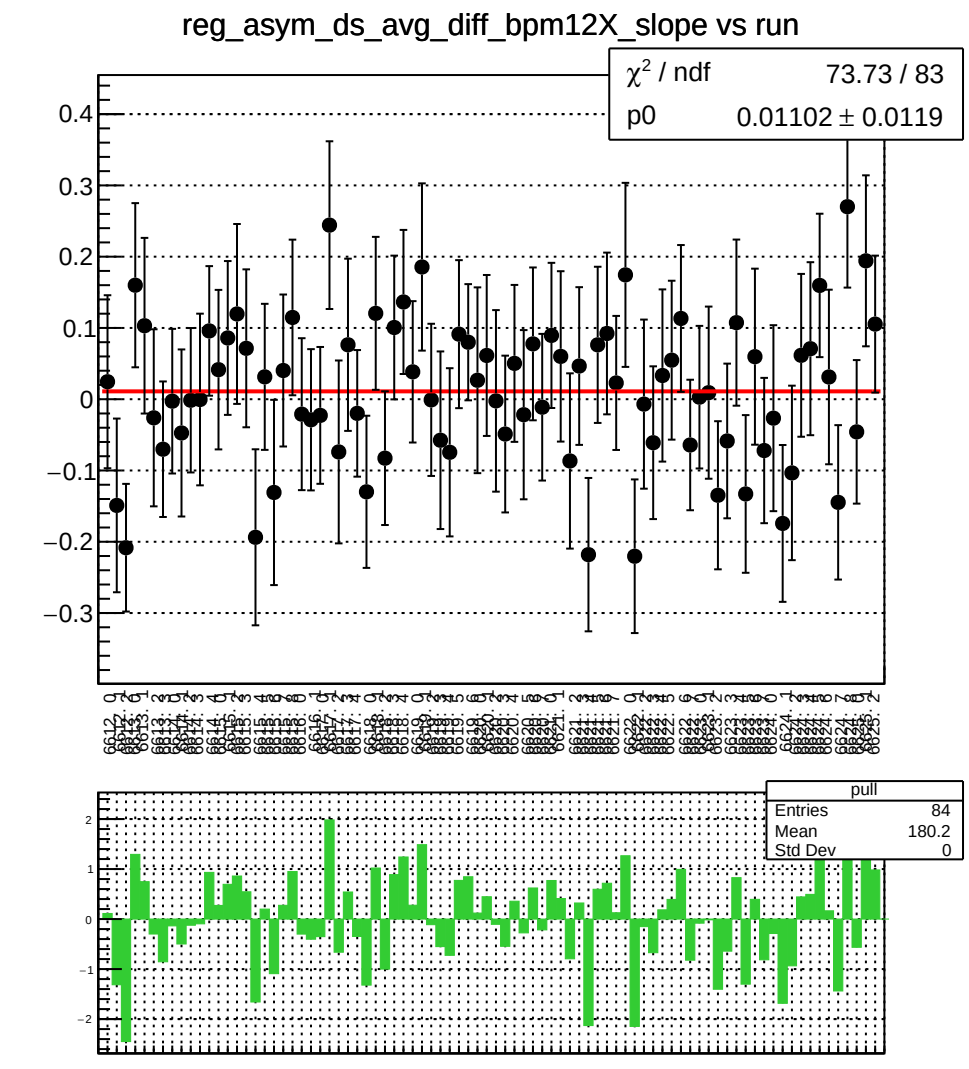

pull1D
Entries 84
Mean −0.004422
Std Dev 1.011

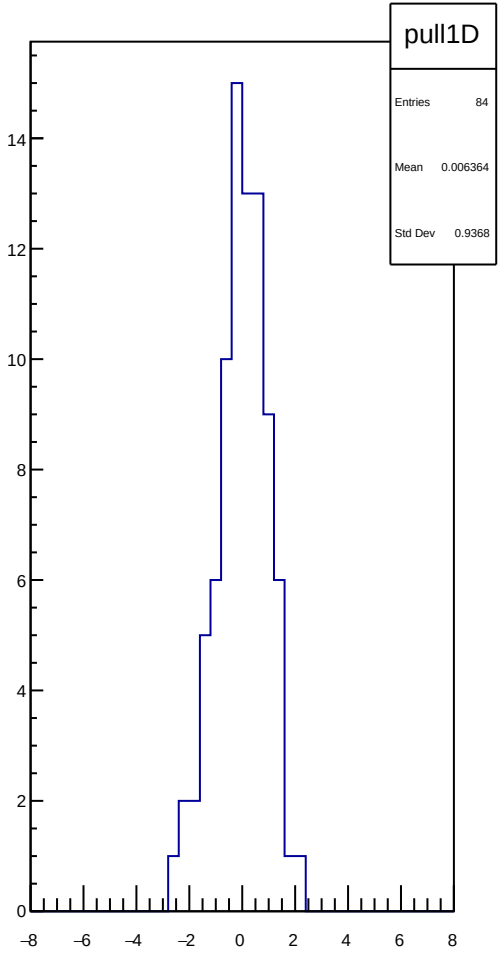

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 74.99 / 83
p0 −0.7714 ± 0.2867
pull
Entries 84
Mean 187.2
Std Dev 0

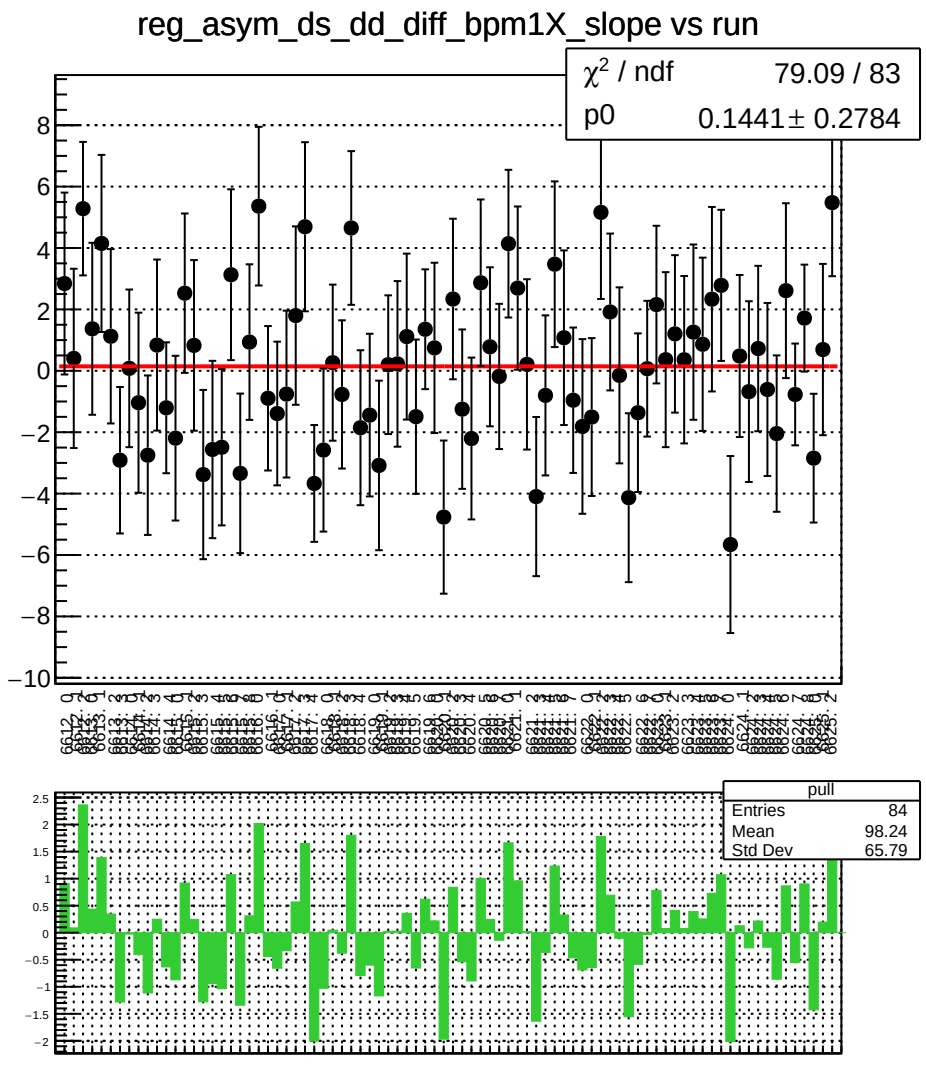

pull1D
Entries 84
Mean 0.00116
Std Dev 0.9448

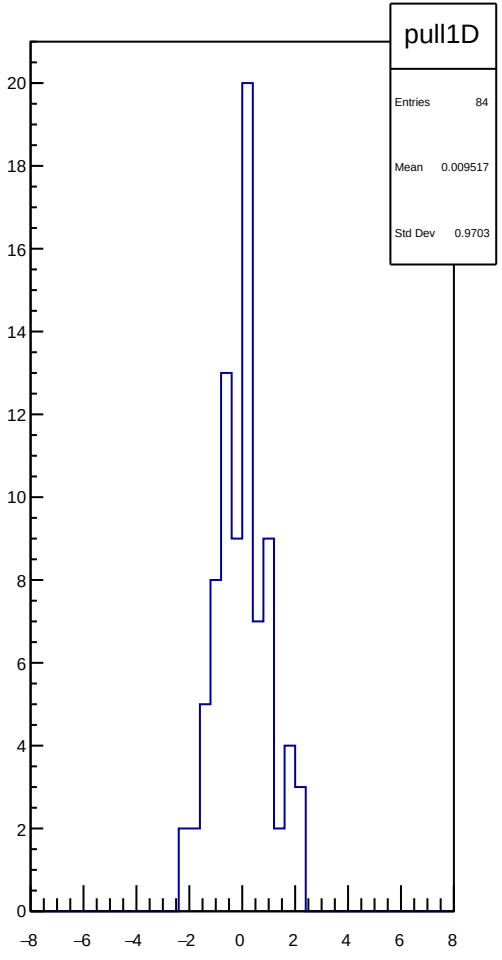

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 83.94 / 83
p0 0.07105 ± 0.2397
pull
Entries 84
Mean 394.8
Std Dev 0

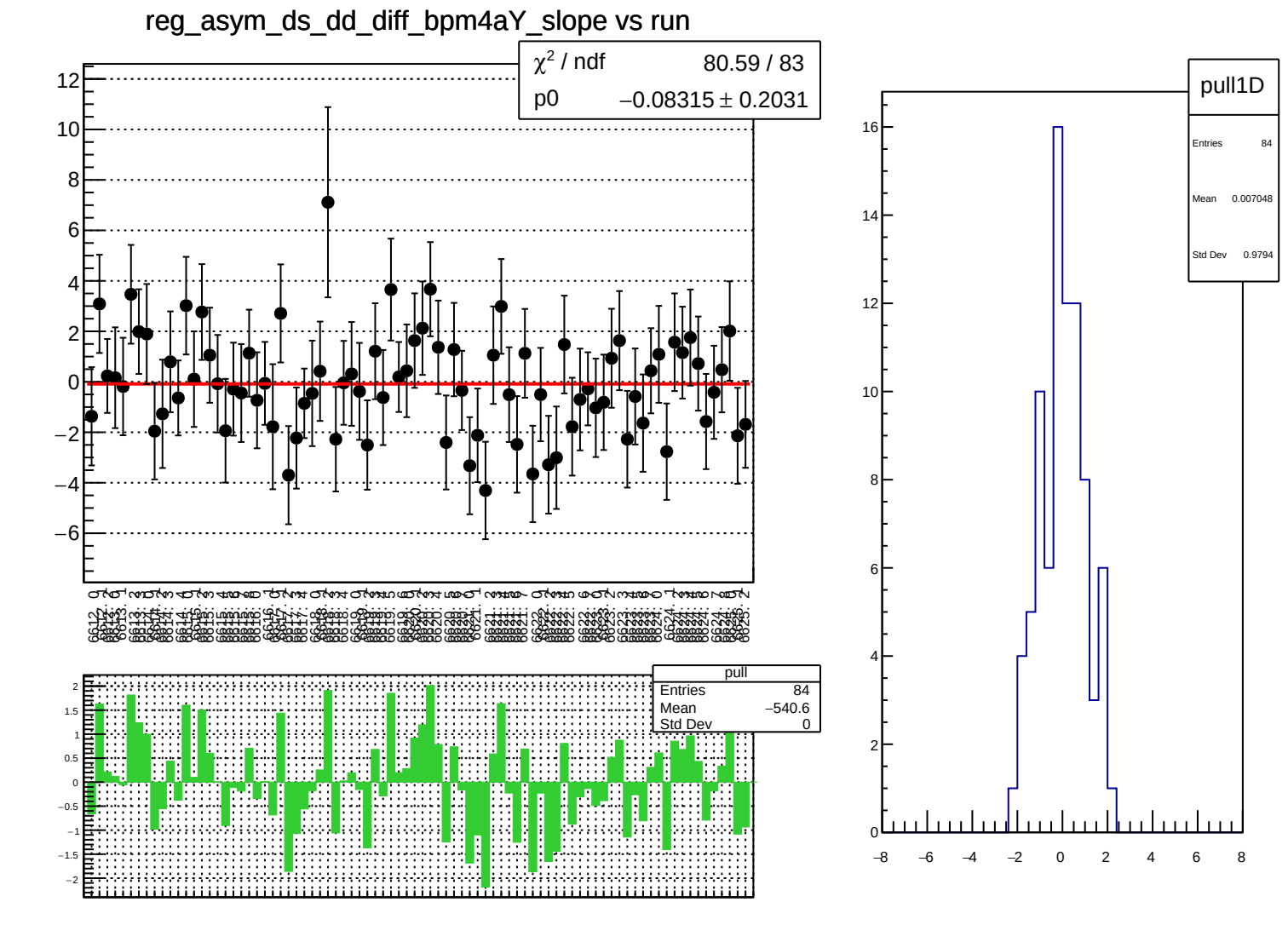

pull1D
Entries 84
Mean 0.009575
Std Dev 0.9996

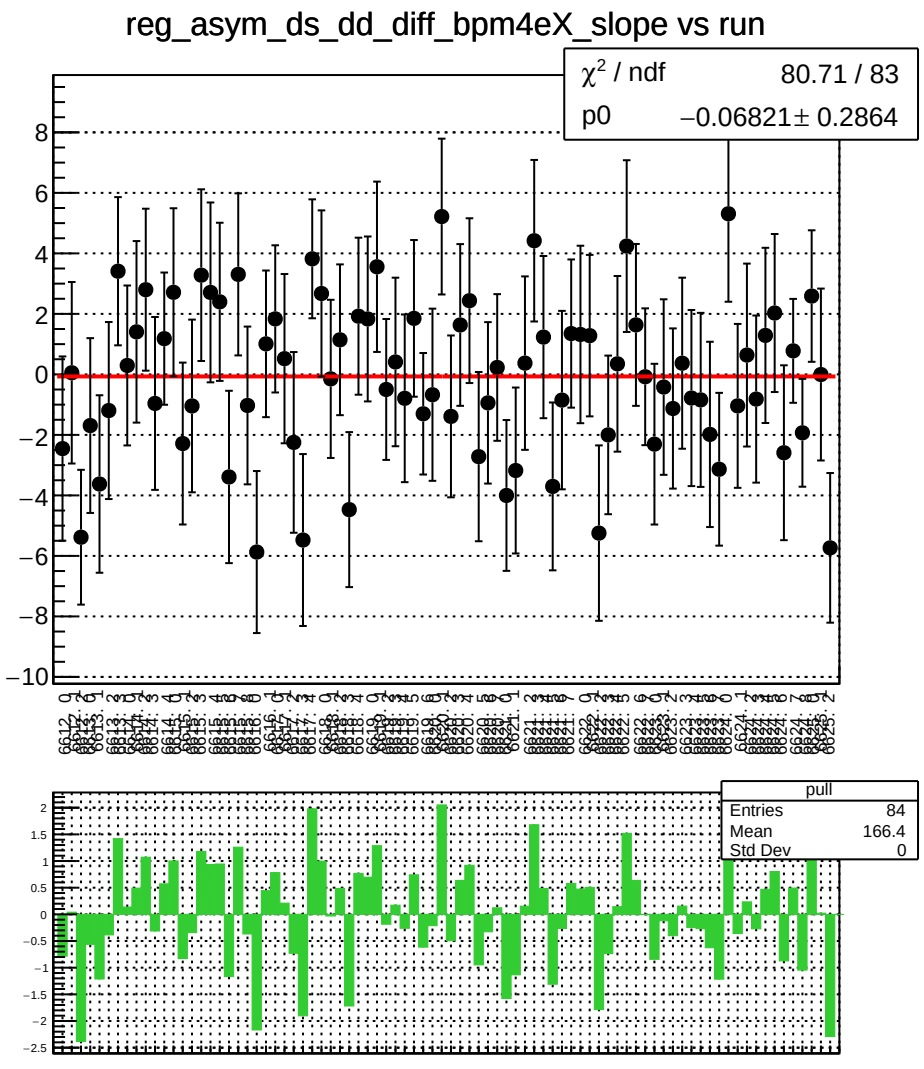

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 73.73 / 83
p0 0.01102 ± 0.0119
pull
Entries 84
Mean 180.2
Std Dev 0

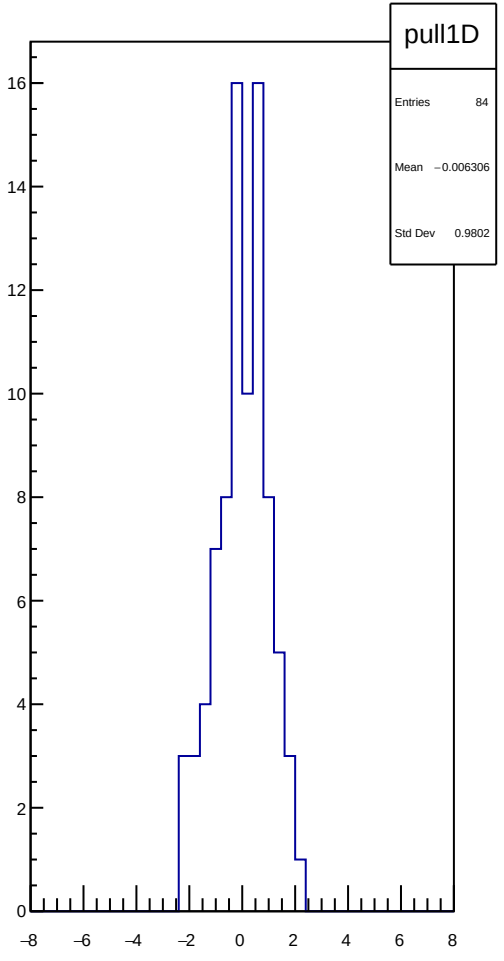

pull1D
Entries 84
Mean 0.006364
Std Dev 0.9368

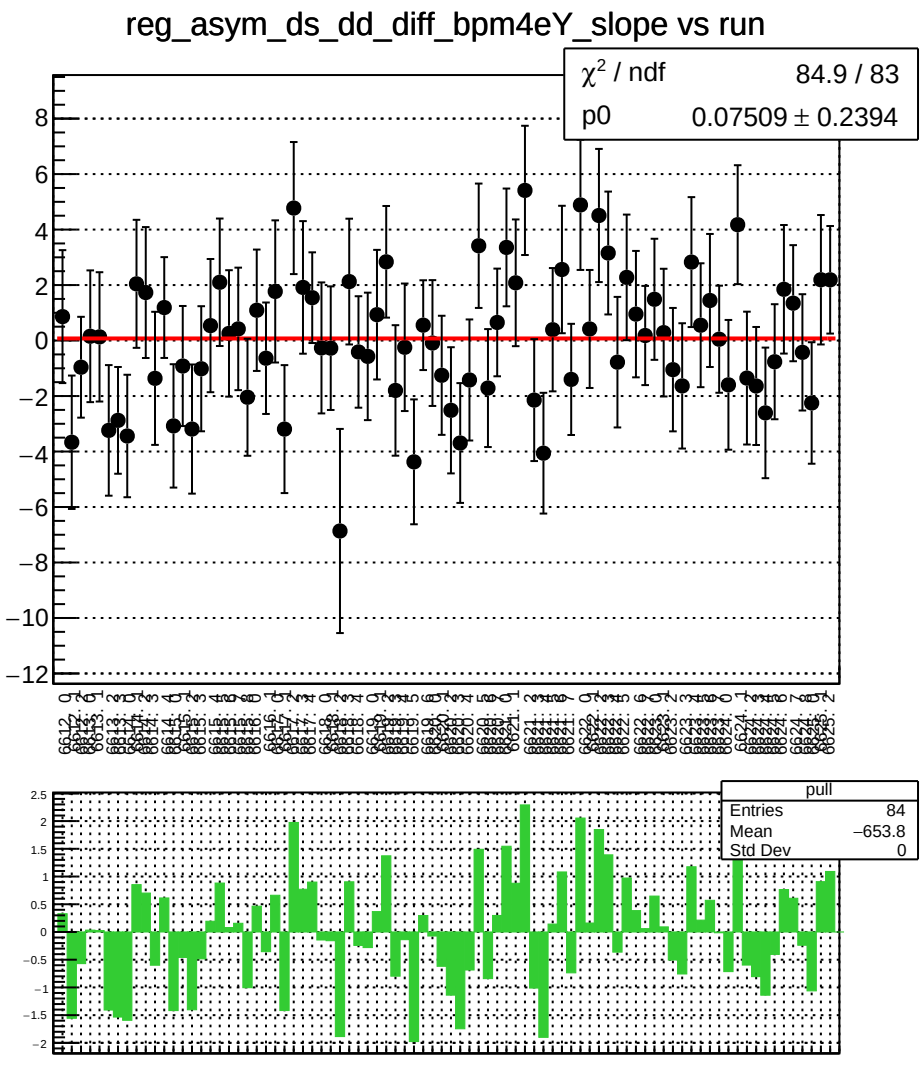

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 79.09 / 83
p0 0.1441 ± 0.2784
pull
Entries 84
Mean 98.24
Std Dev 65.79

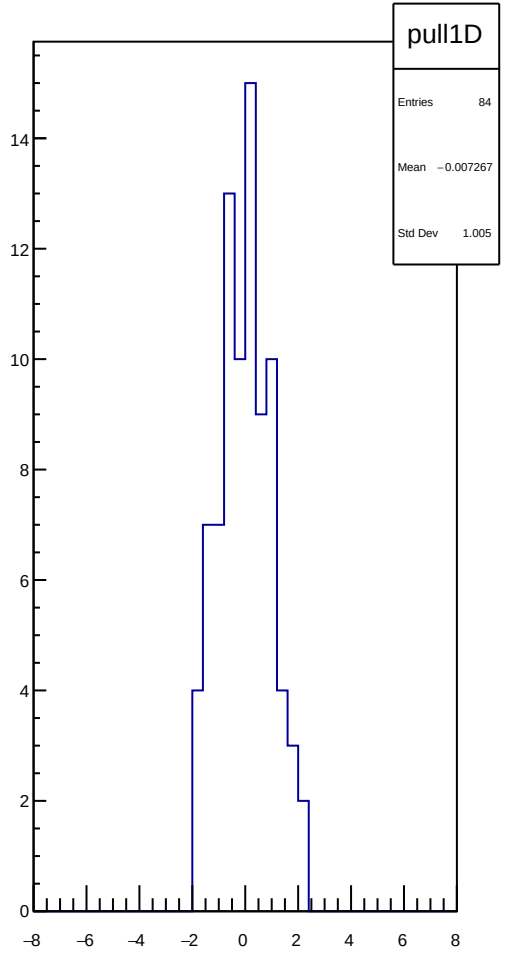

pull1D
Entries 84
Mean 0.009517
Std Dev 0.9703

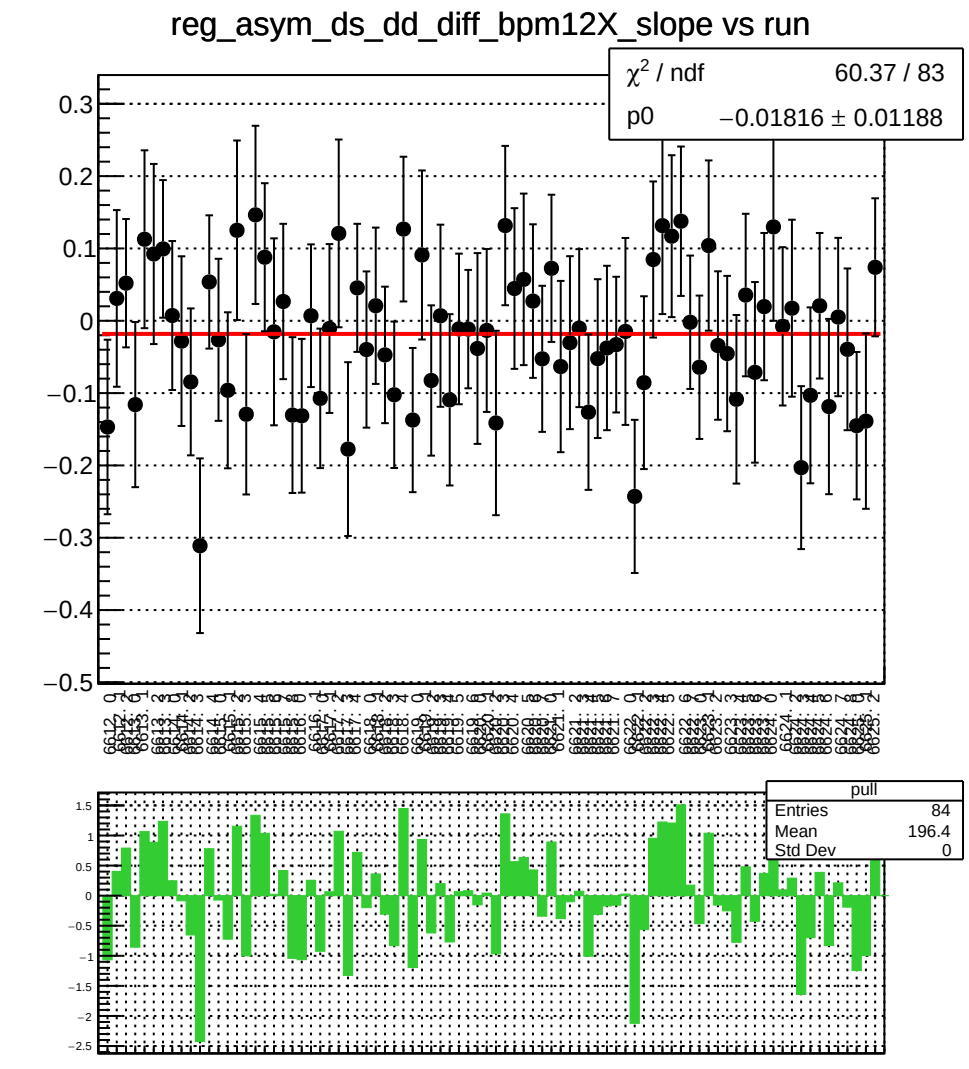

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.59 / 83
p0 −0.08315 ± 0.2031
pull
Entries 84
Mean −540.6
Std Dev 0
pull1D
Entries 84
Mean 0.007048
Std Dev 0.9794

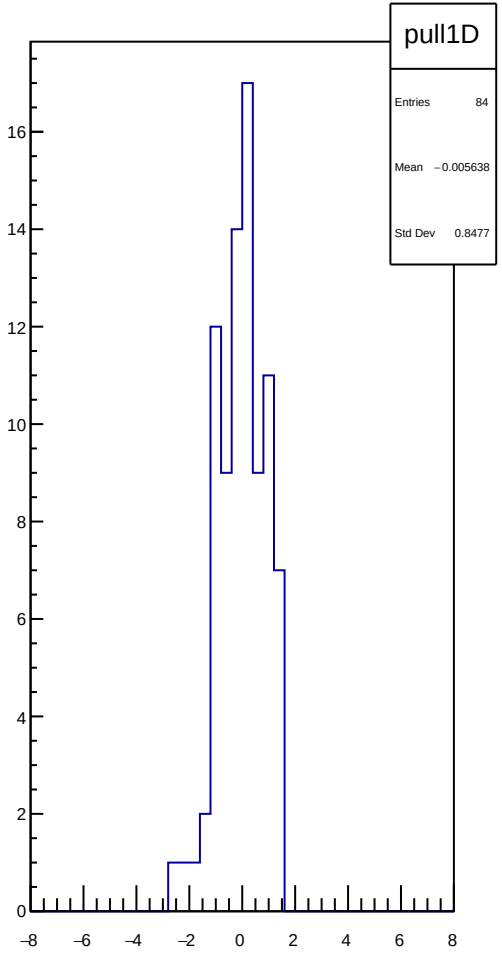

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.71 / 83
p0 −0.06821± 0.2864
pull
Entries 84
Mean 166.4
Std Dev 0

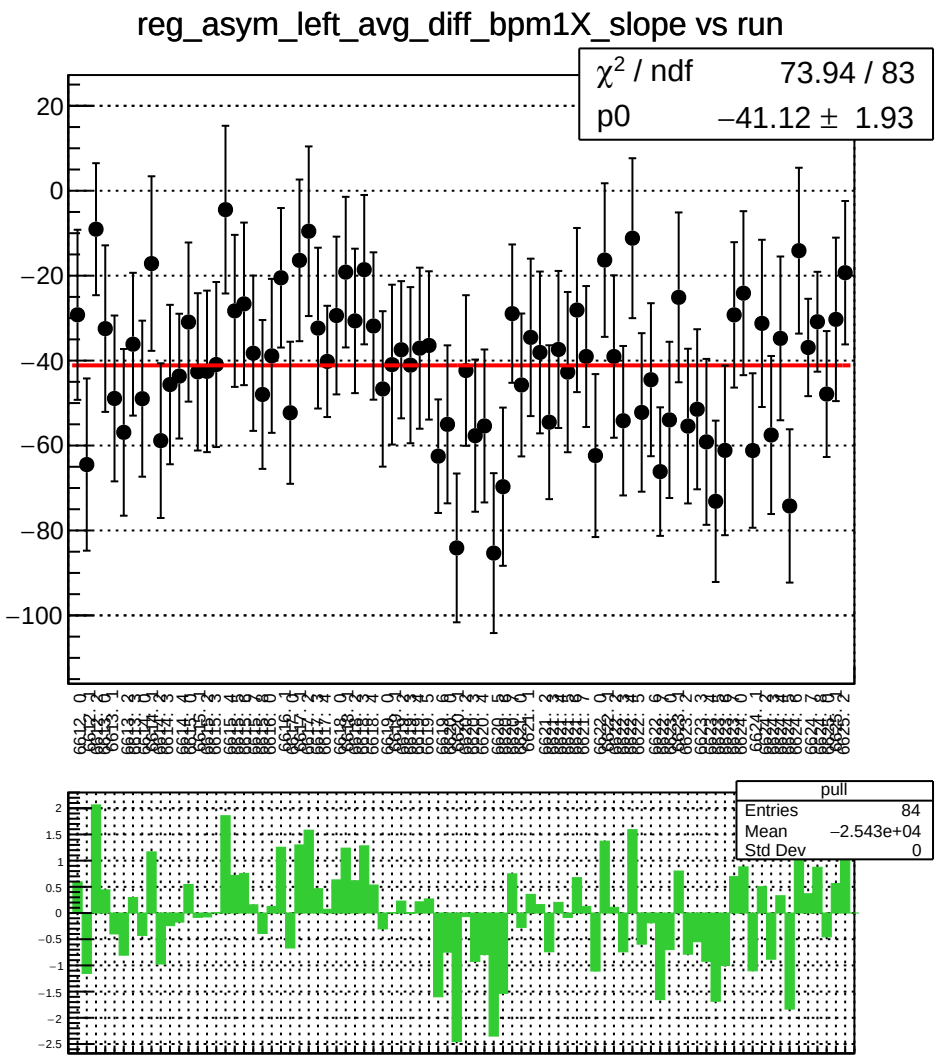

pull1D
Entries 84
Mean −0.006306
Std Dev 0.9802

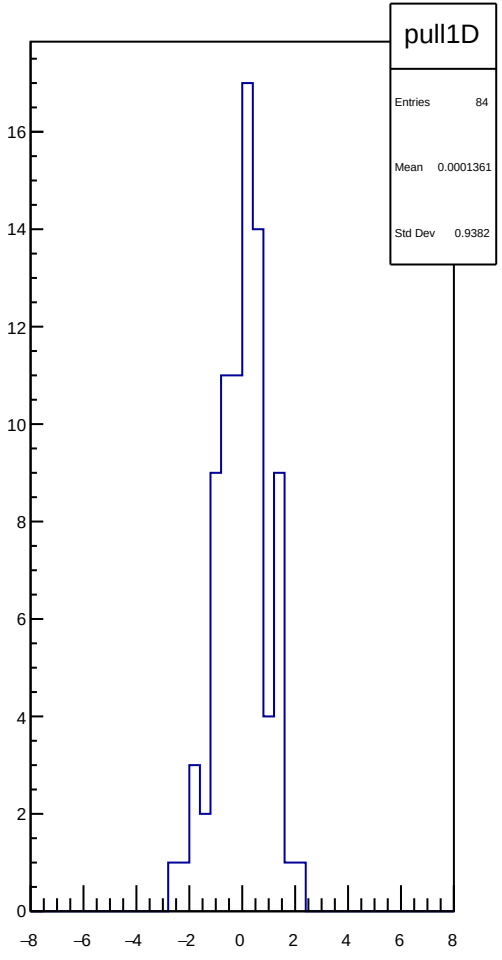

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.9 / 83
p0 0.07509 ± 0.2394
pull
Entries 84
Mean −653.8
Std Dev 0

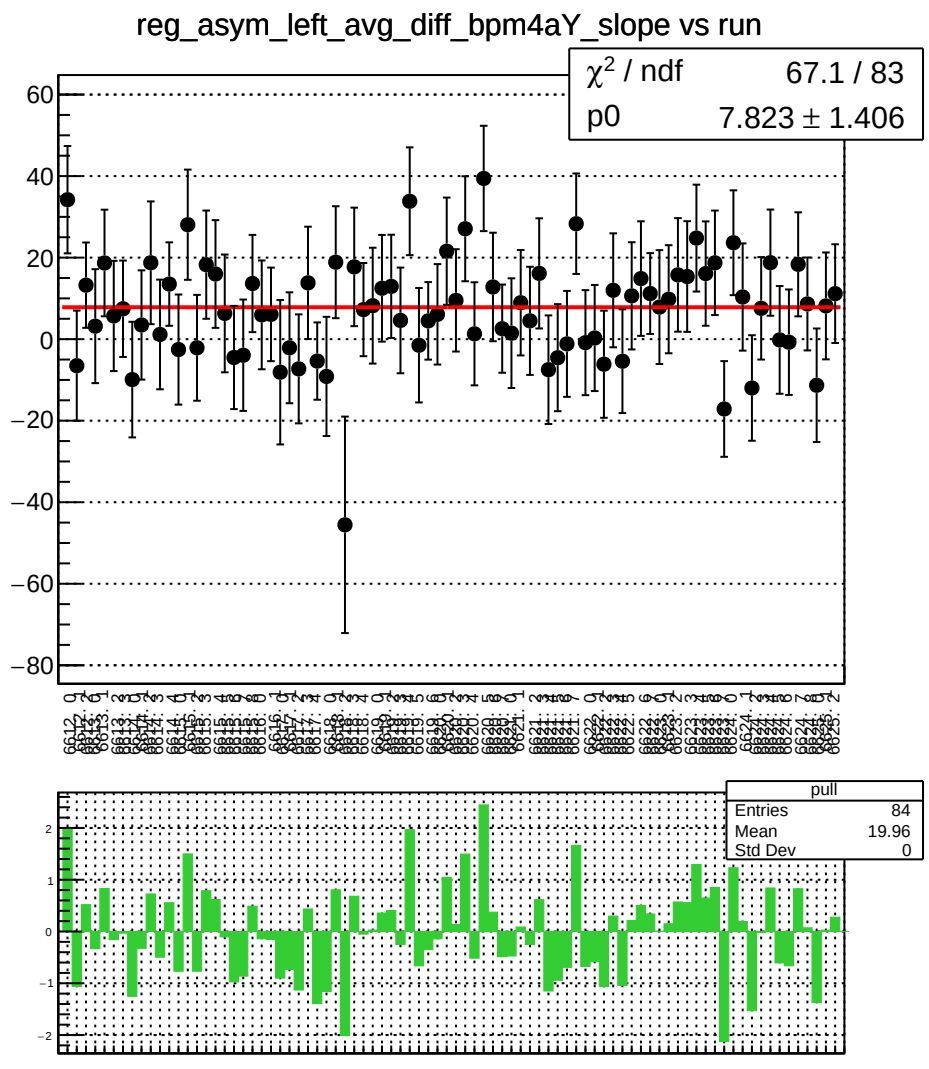

pull1D
Entries 84
Mean −0.007267
Std Dev 1.005

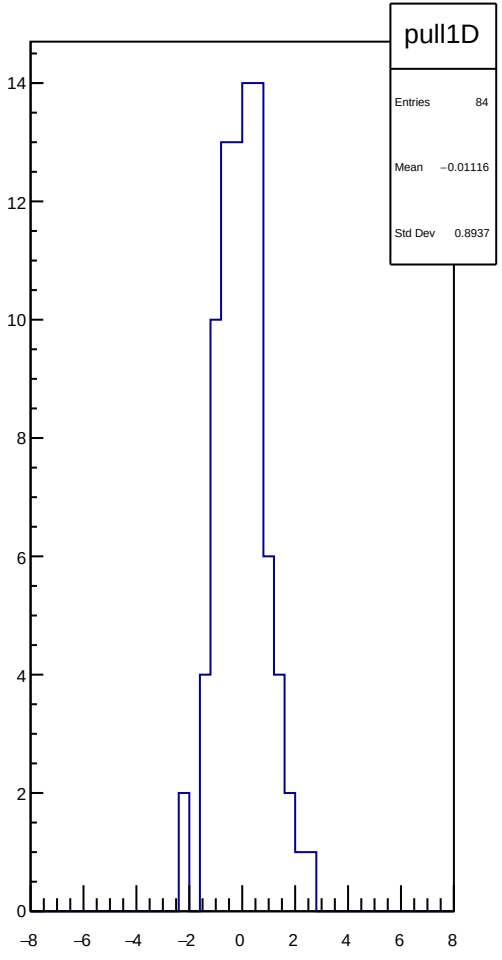

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 60.37 / 83
p0 −0.01816 ± 0.01188
pull
Entries 84
Mean 196.4
Std Dev 0

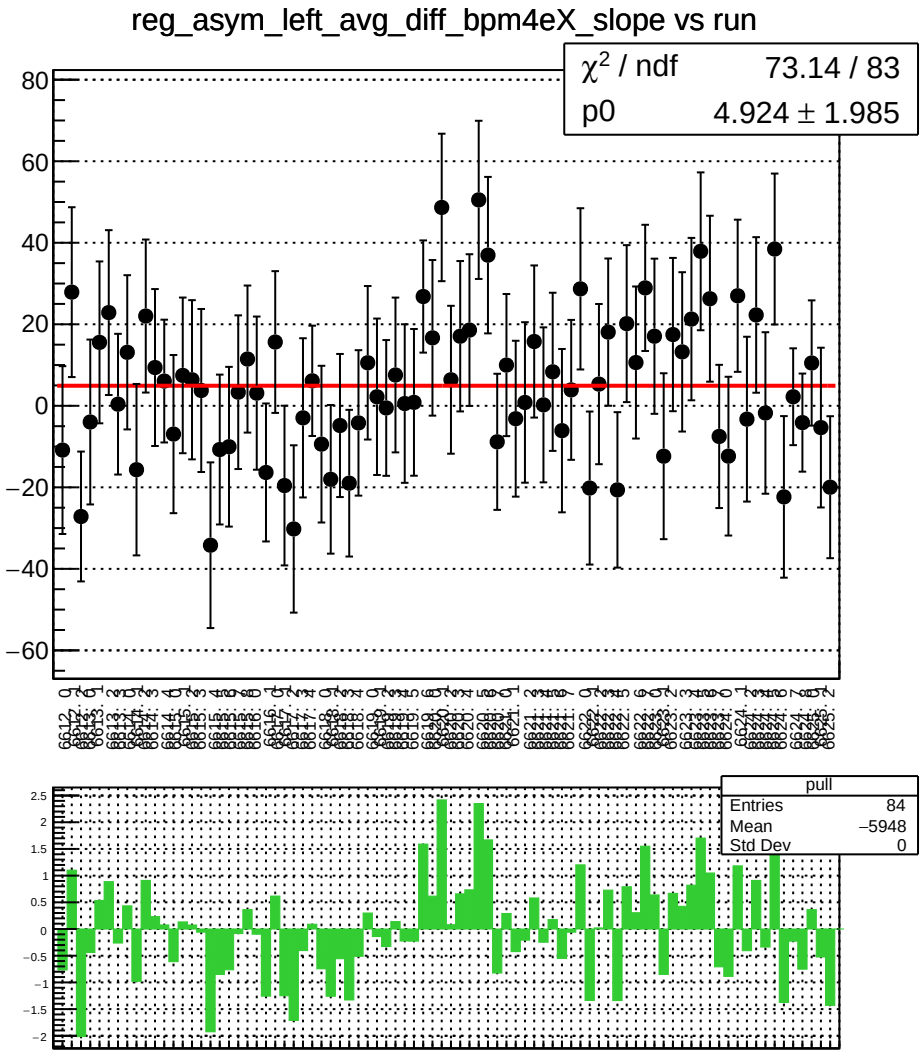

pull1D
Entries 84
Mean −0.005638
Std Dev 0.8477

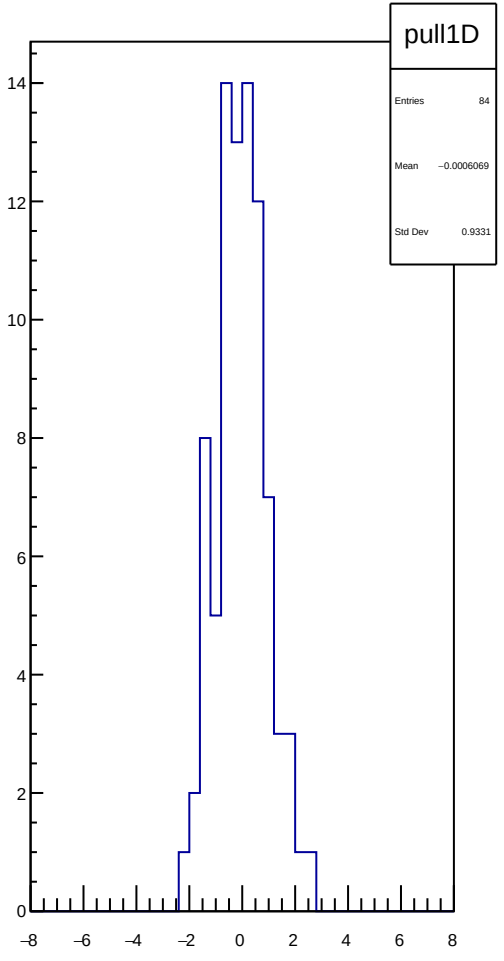

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 73.94 / 83
p0 −41.12 ± 1.93
pull
Entries 84
Mean −2.543e+04
Std Dev 0

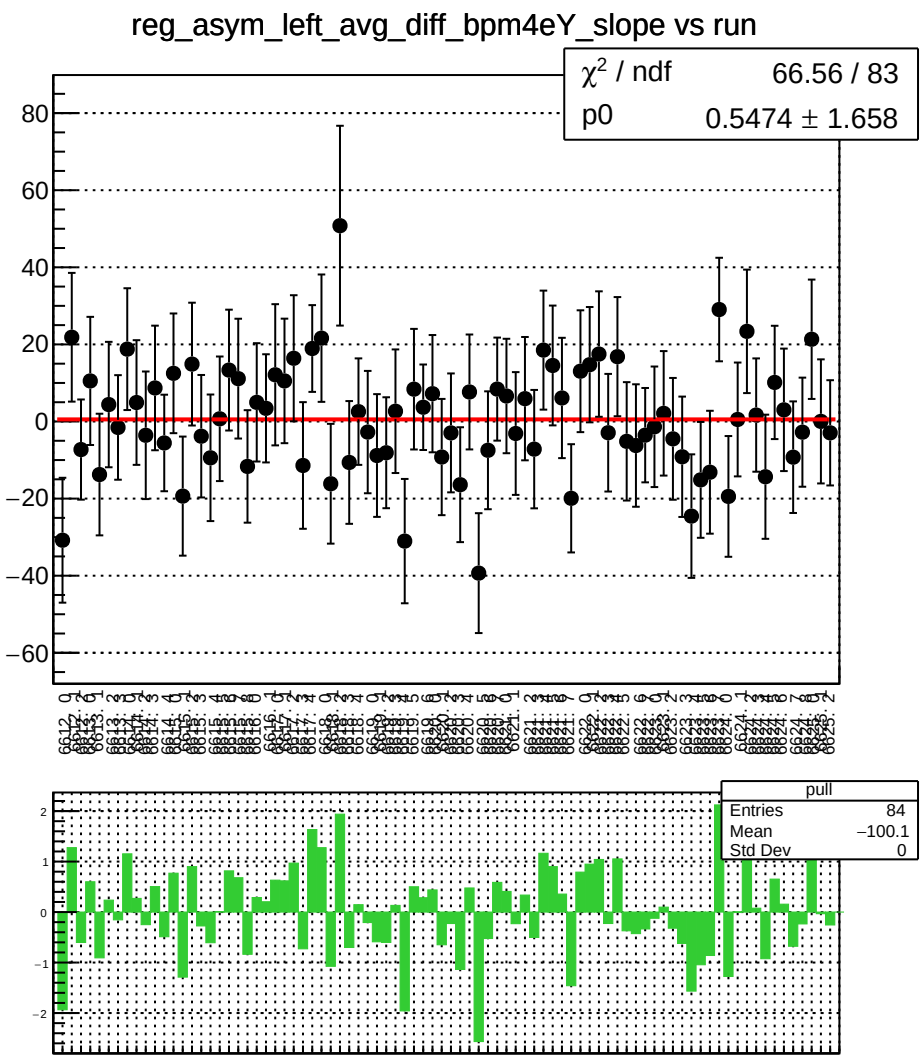

pull1D
Entries 84
Mean 0.0001361
Std Dev 0.9382

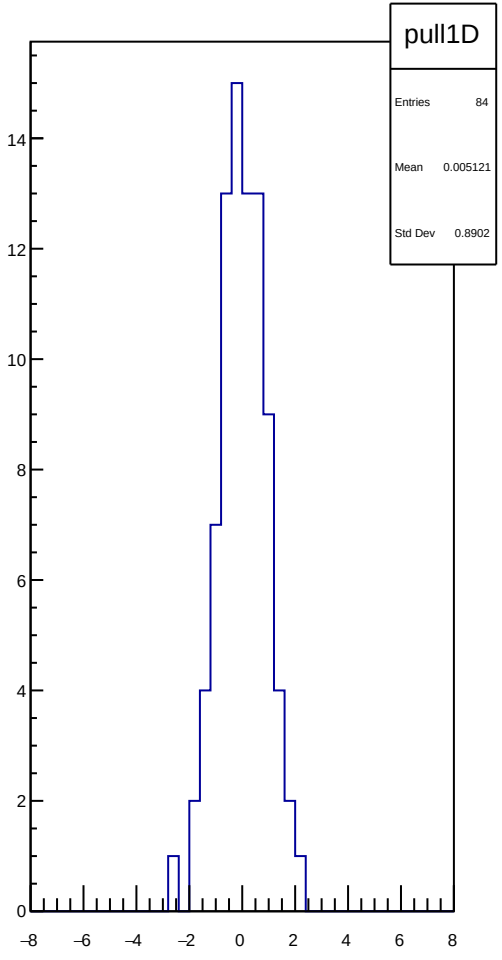

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 67.1 / 83
p0 7.823 ± 1.406
pull
Entries 84
Mean 19.96
Std Dev 0

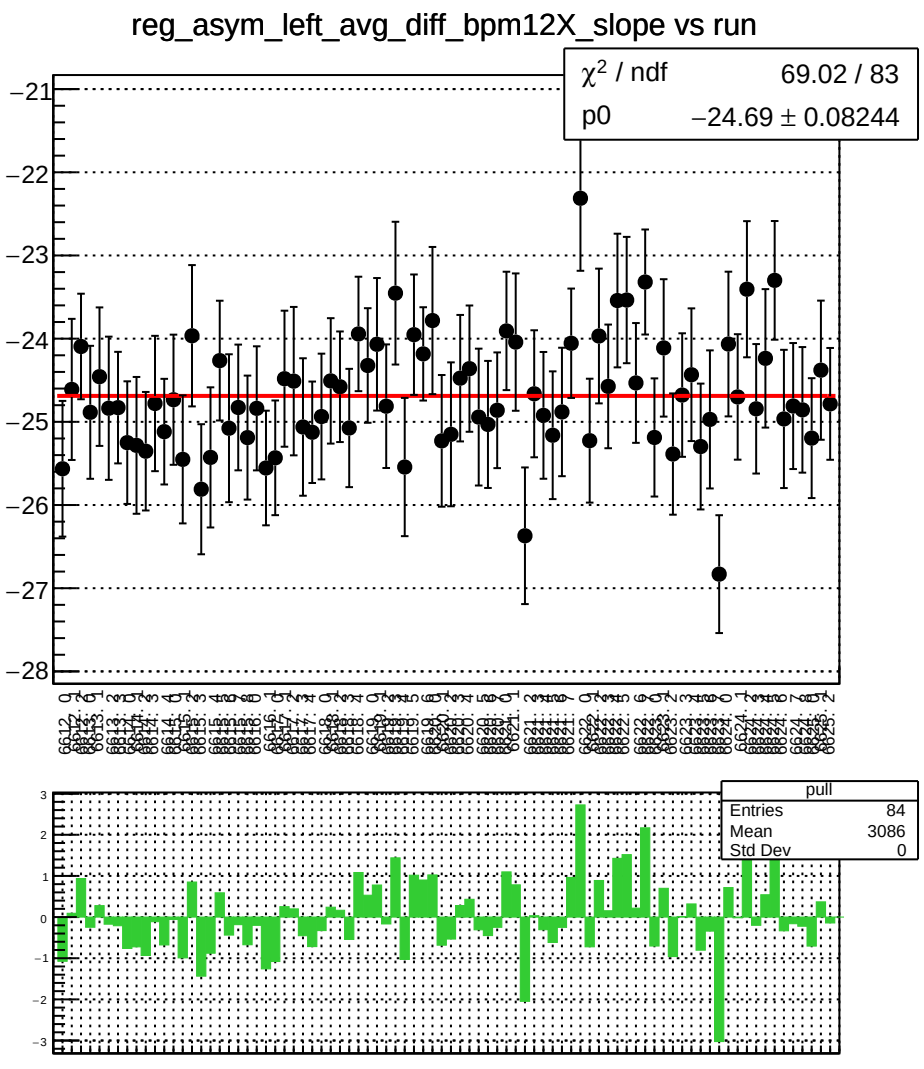

pull1D
Entries 84
Mean −0.01116
Std Dev 0.8937

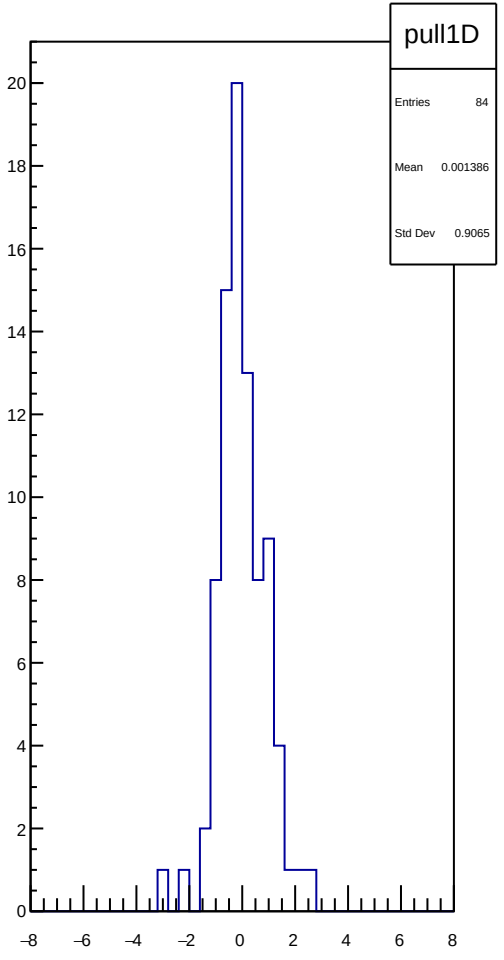

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 73.14 / 83
p0 4.924 ± 1.985
pull
Entries 84
Mean −5948
Std Dev 0

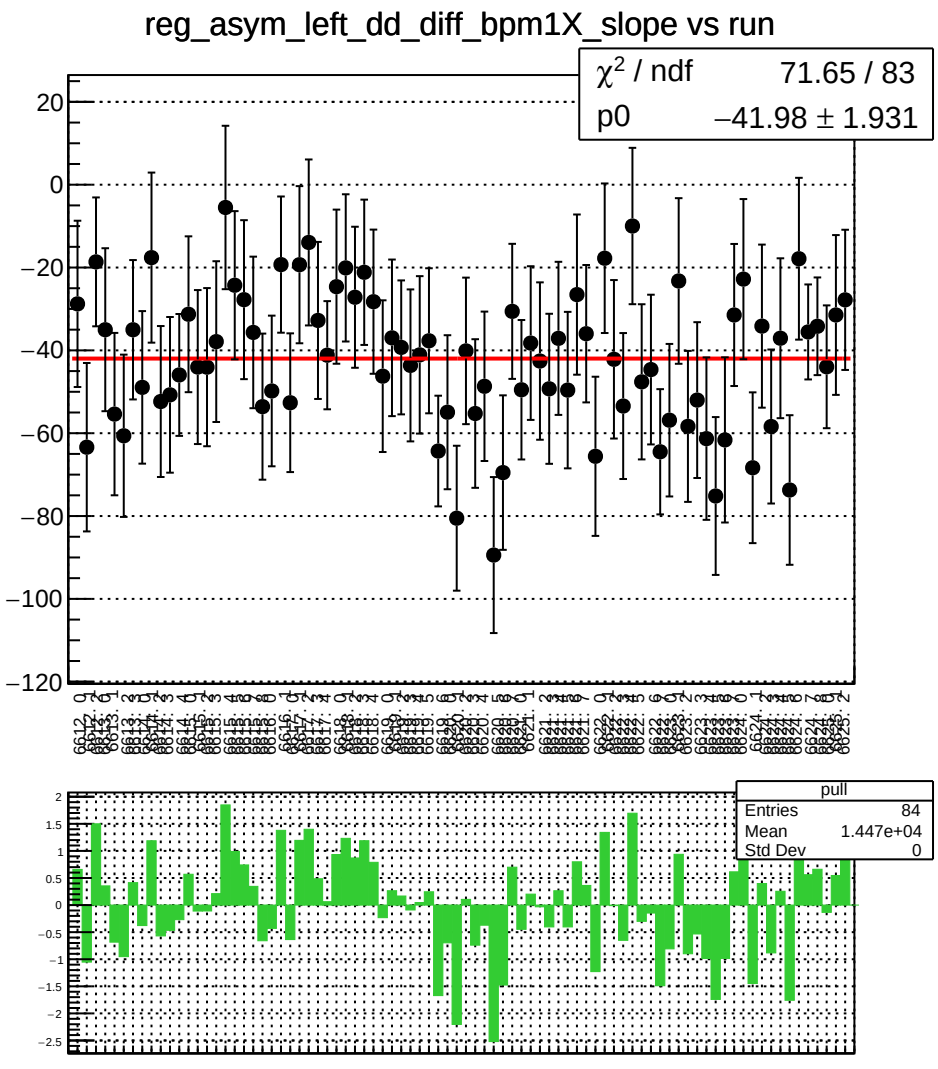

pull1D
Entries 84
Mean −0.0006069
Std Dev 0.9331

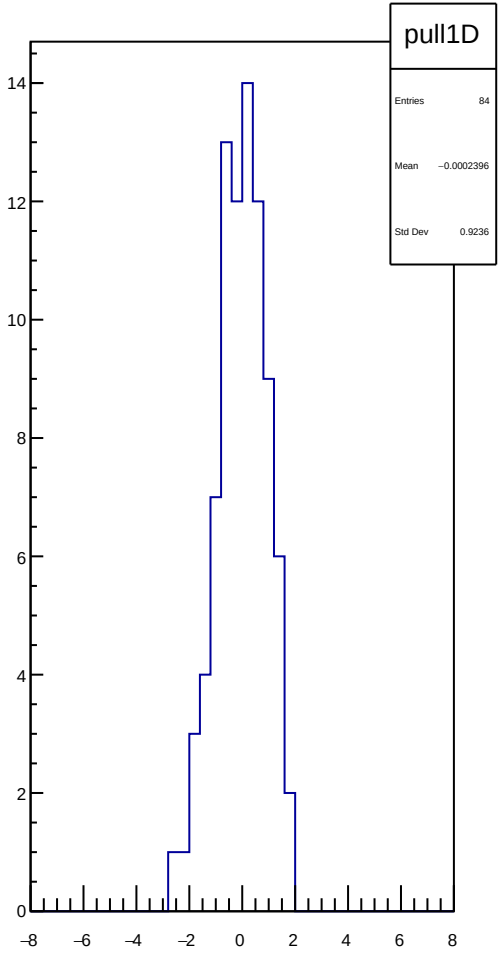

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.56 / 83
p0 0.5474 ± 1.658
pull
Entries 84
Mean −100.1
Std Dev 0

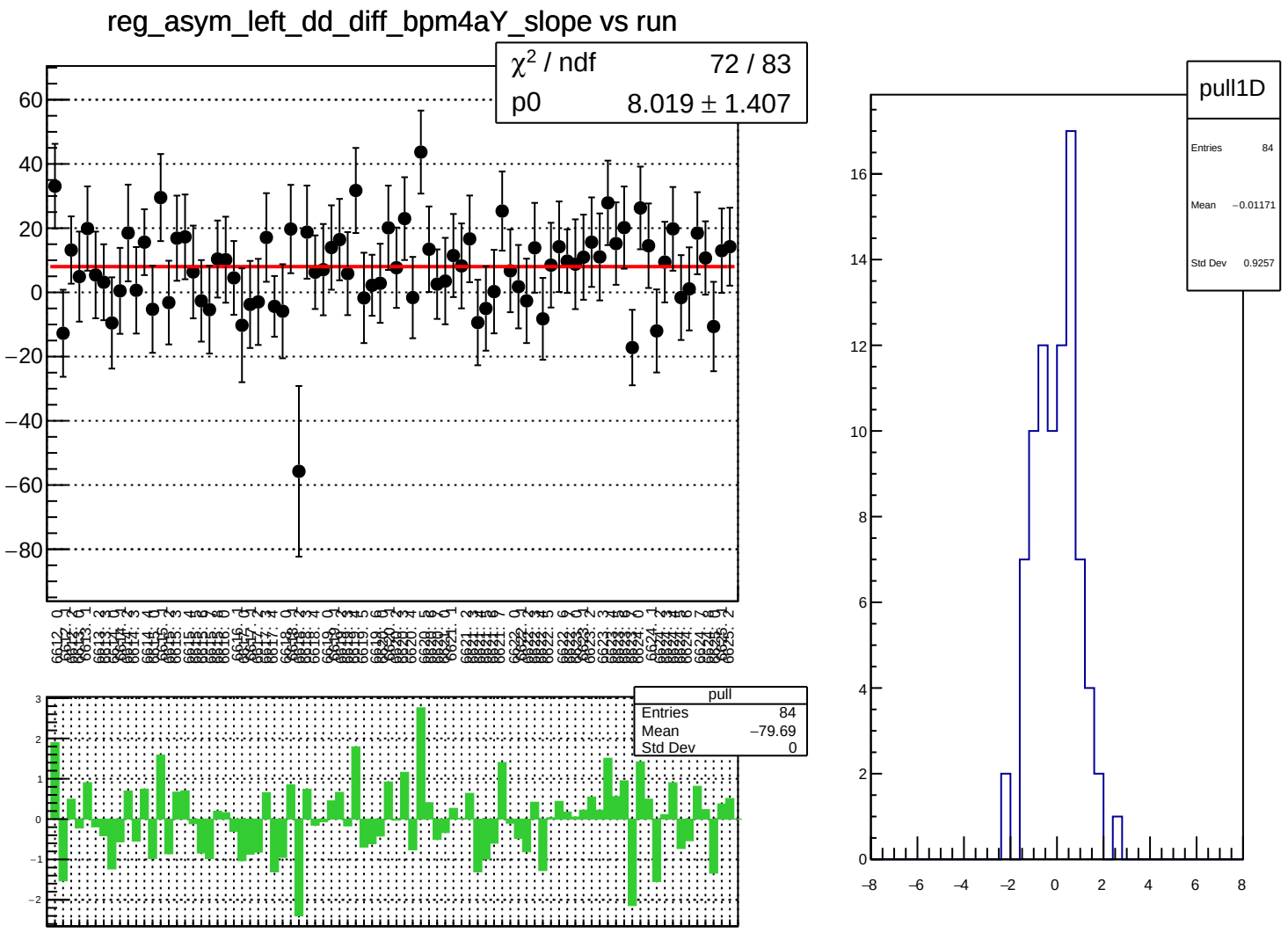

pull1D
Entries 84
Mean 0.005121
Std Dev 0.8902

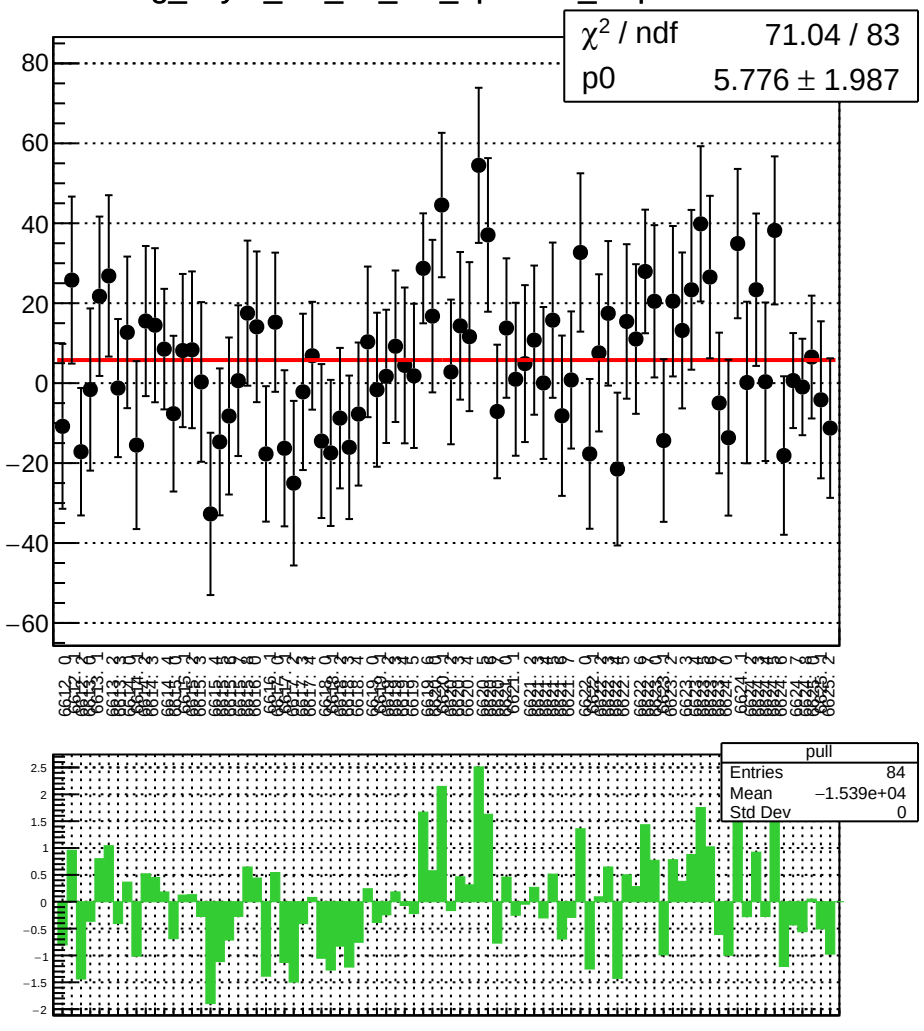

reg_asym_left_avg_diff_bpm12X_slope vs run
χ^2 / ndf 69.02 / 83
p0 −24.69 ± 0.08244
pull
Entries 84
Mean 3086
Std Dev 0

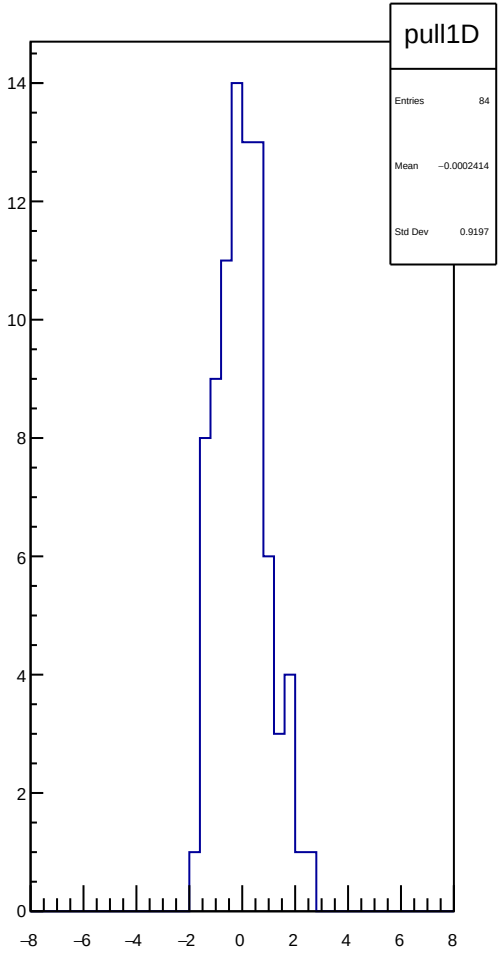

pull1D
Entries 84
Mean 0.001386
Std Dev 0.9065

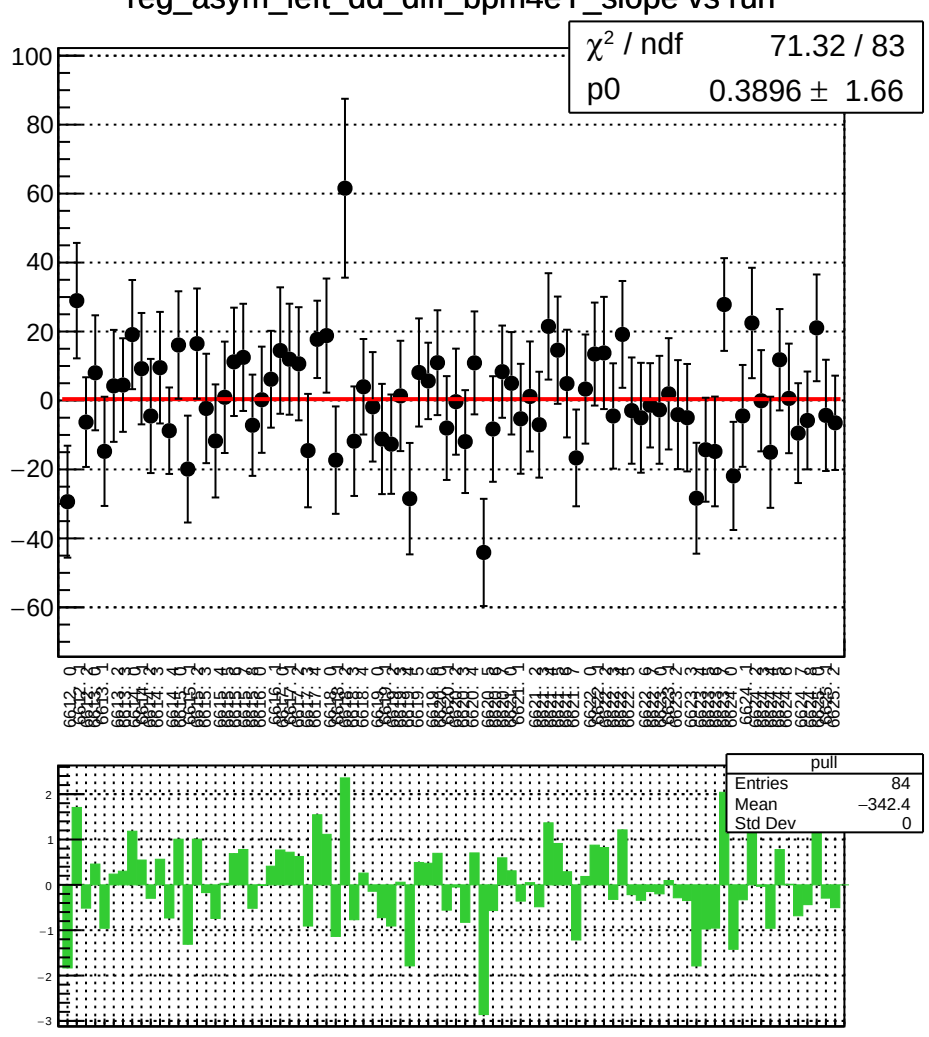

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 71.65 / 83
p0 −41.98 ± 1.931
pull
Entries 84
Mean 1.447e+04
Std Dev 0

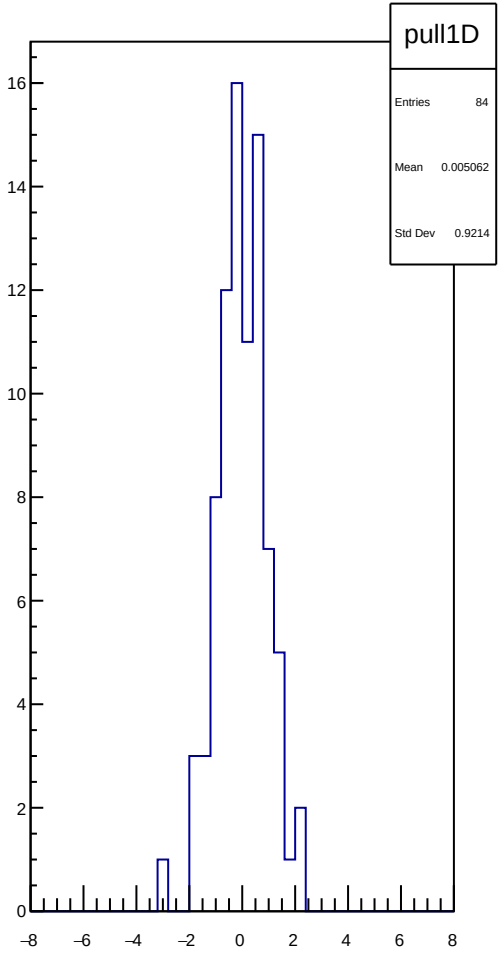

pull1D
Entries 84
Mean −0.0002396
Std Dev 0.9236

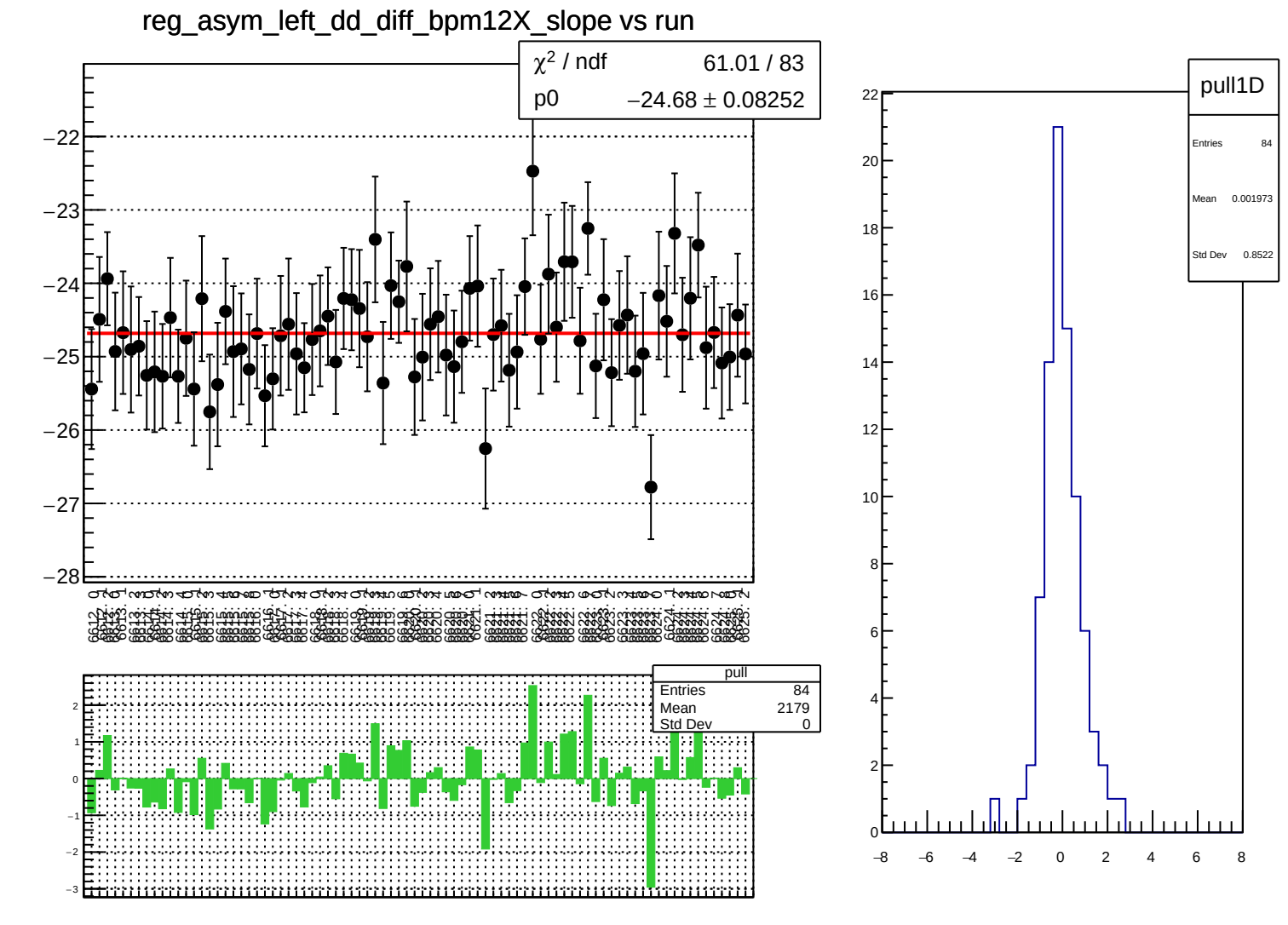

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 72 / 83
p0 8.019 ± 1.407
pull
Entries 84
Mean −79.69
Std Dev 0
pull1D
Entries 84
Mean −0.01171
Std Dev 0.9257

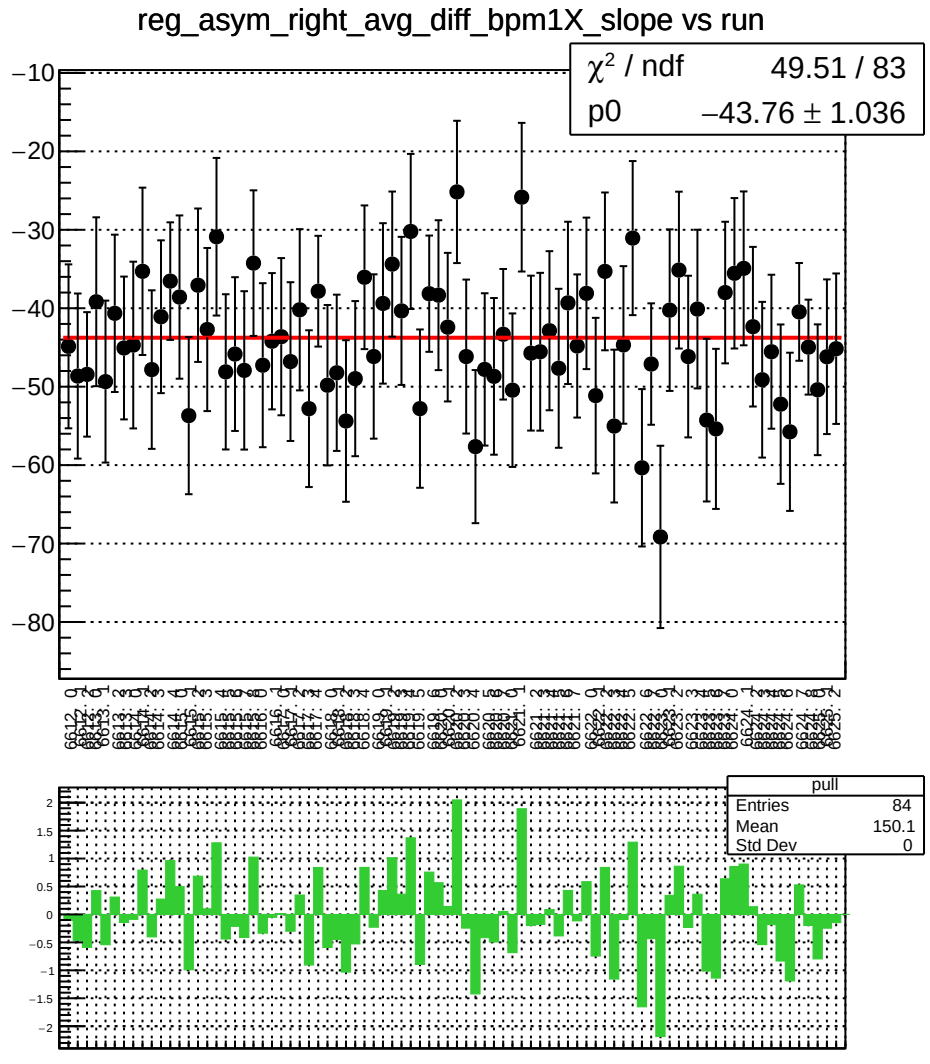

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.04 / 83
p0 5.776 ± 1.987
pull
Entries 84
Mean −1.539e+04
Std Dev 0

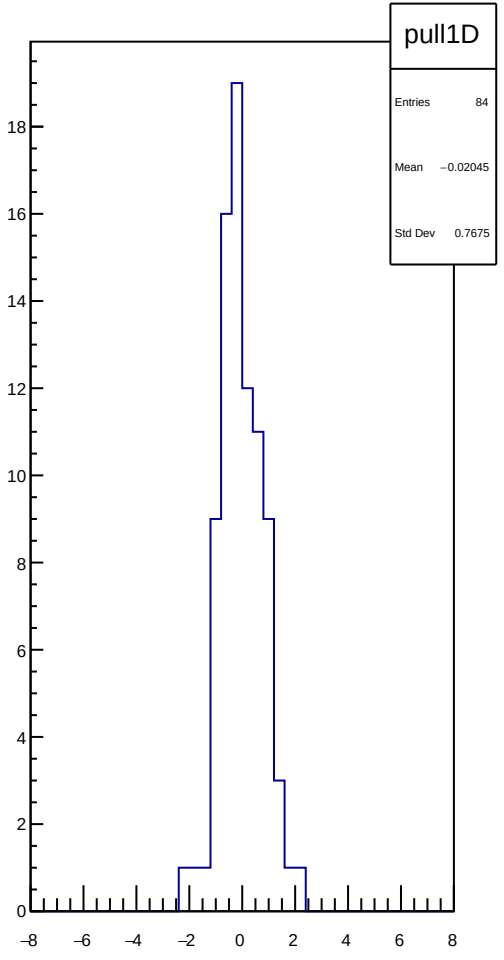

pull1D
Entries 84
Mean −0.0002414
Std Dev 0.9197

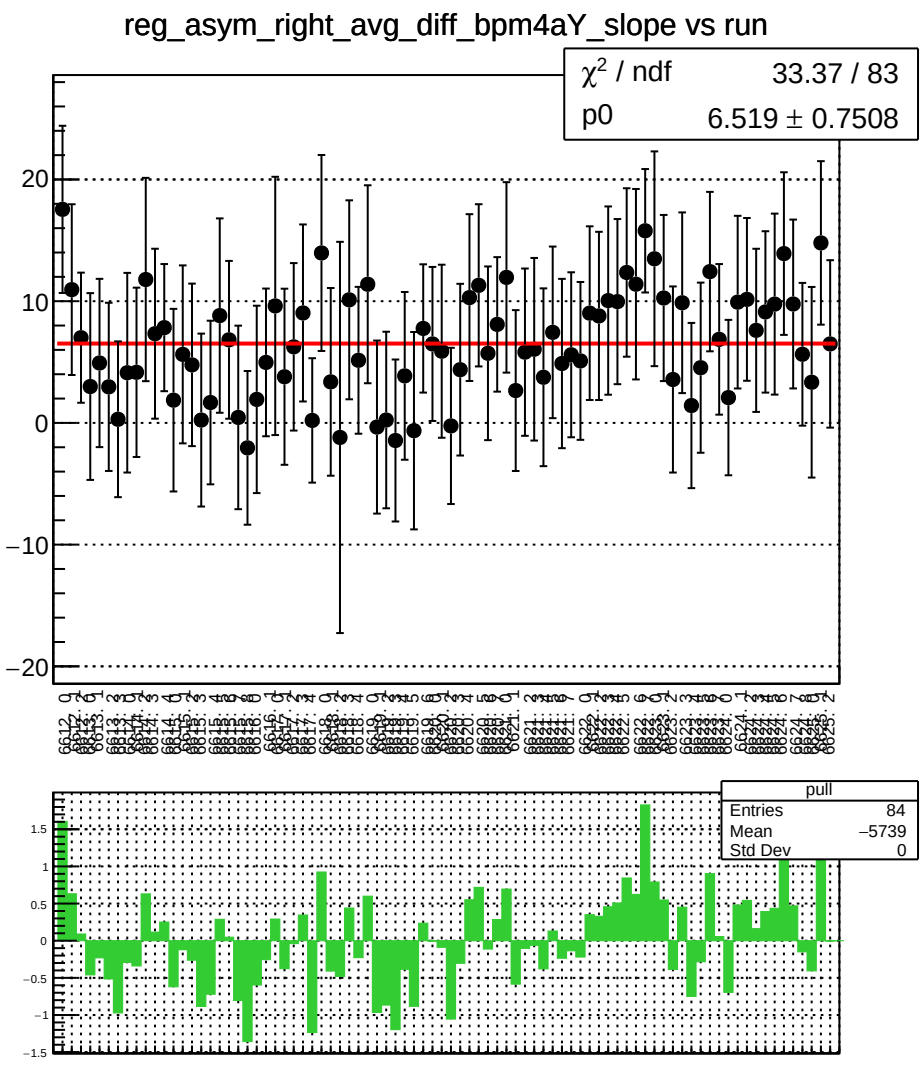

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.32 / 83
p0 0.3896 ± 1.66
pull
Entries 84
Mean −342.4
Std Dev 0

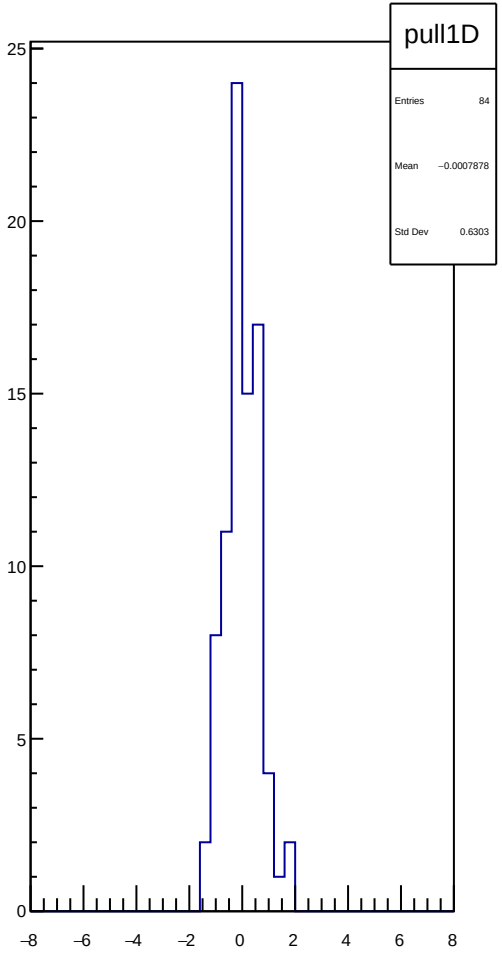

pull1D
Entries 84
Mean 0.005062
Std Dev 0.9214

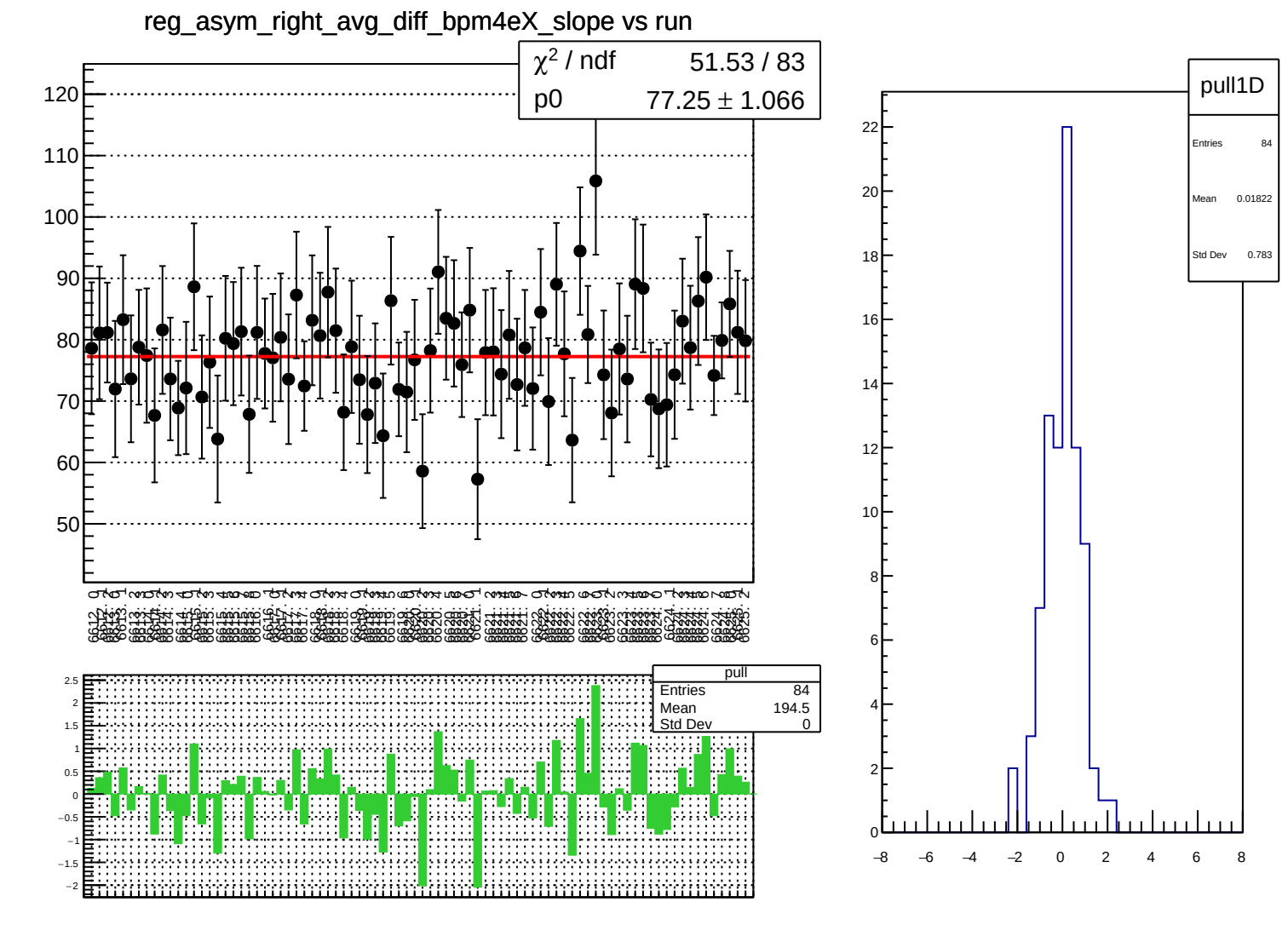

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 61.01 / 83
p0 −24.68 ± 0.08252
pull
Entries 84
Mean 2179
Std Dev 0
pull1D
Entries 84
Mean 0.001973
Std Dev 0.8522

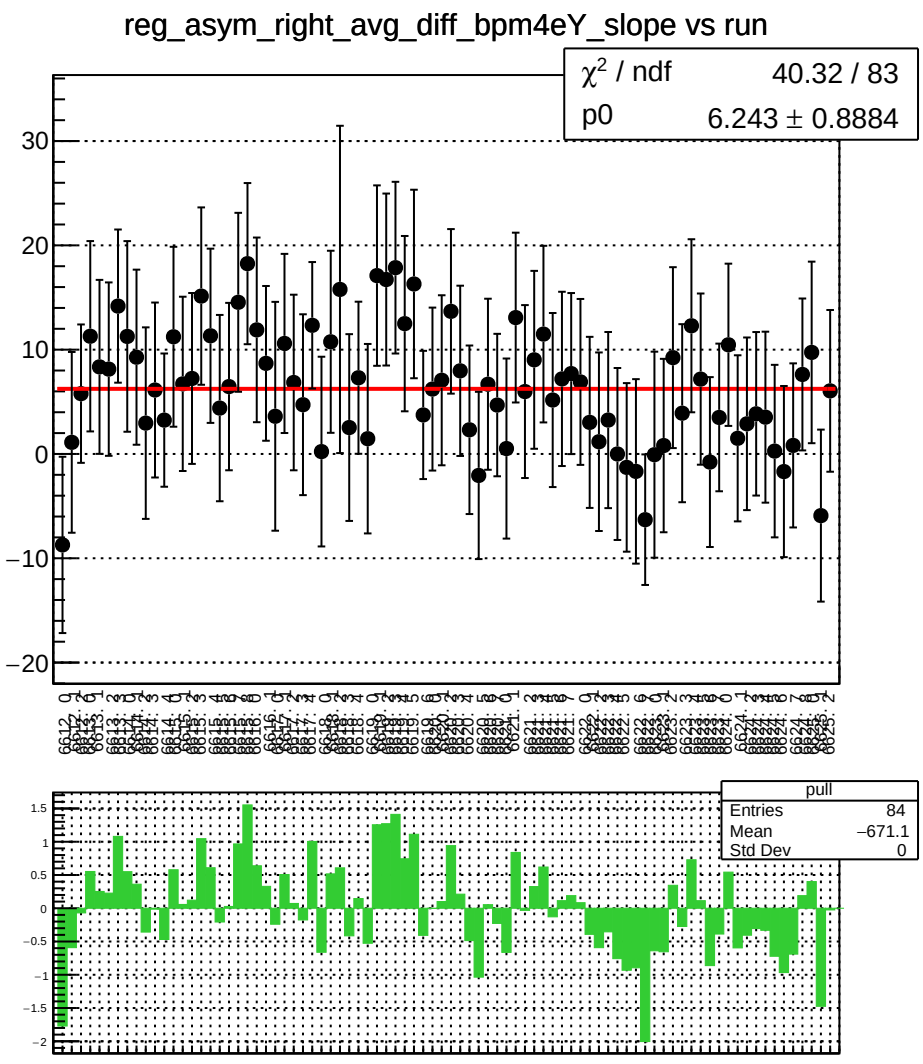

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 49.51 / 83
p0 −43.76 ± 1.036
pull
Entries 84
Mean 150.1
Std Dev 0

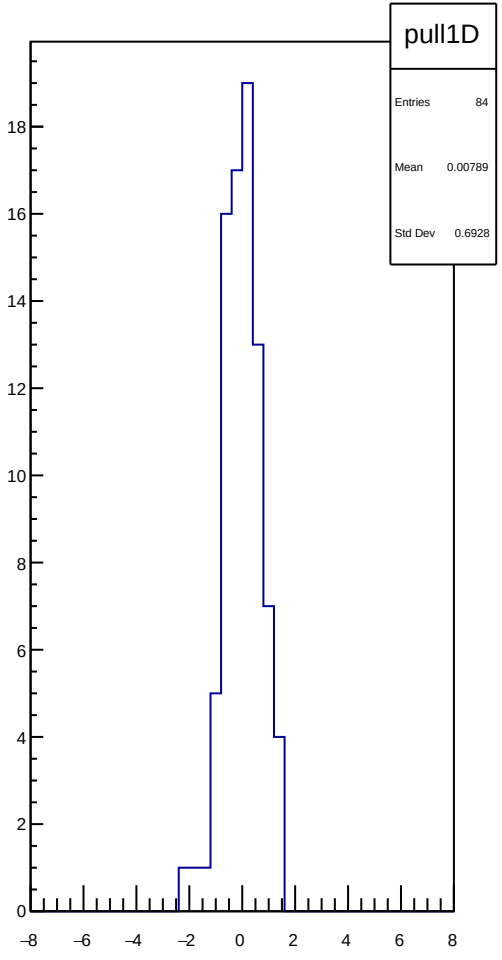

pull1D
Entries 84
Mean −0.02045
Std Dev 0.7675

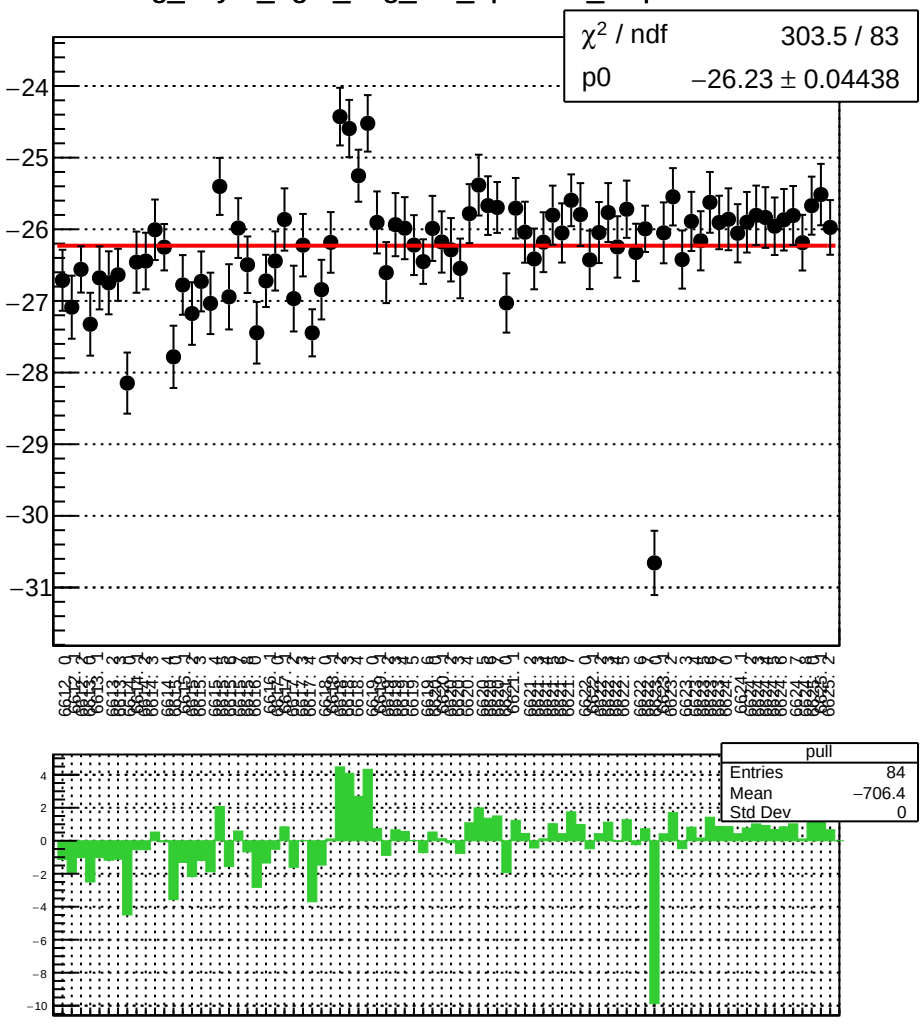

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.37 / 83
p0 6.519 ± 0.7508
pull
Entries 84
Mean −5739
Std Dev 0

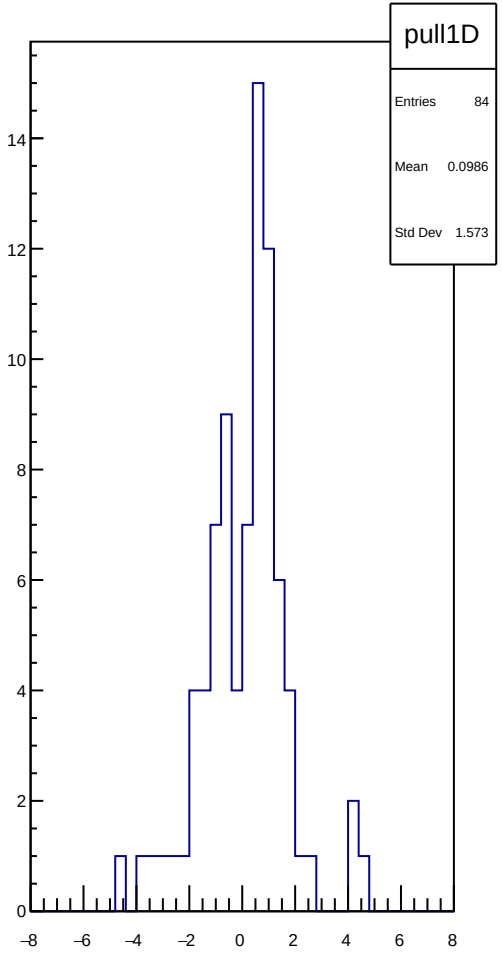

pull1D
Entries 84
Mean −0.0007878
Std Dev 0.6303

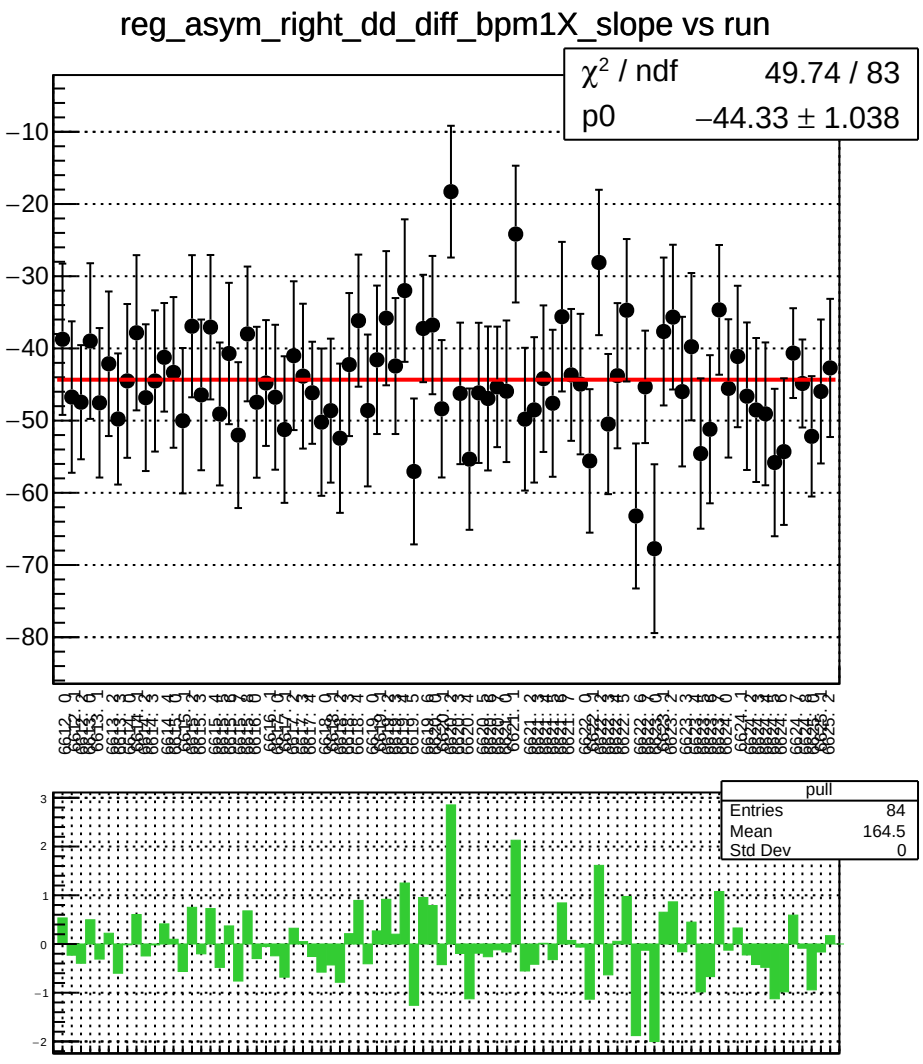

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.53 / 83
p0 77.25 ± 1.066
pull
Entries 84
Mean 194.5
Std Dev 0
pull1D
Entries 84
Mean 0.01822
Std Dev 0.783

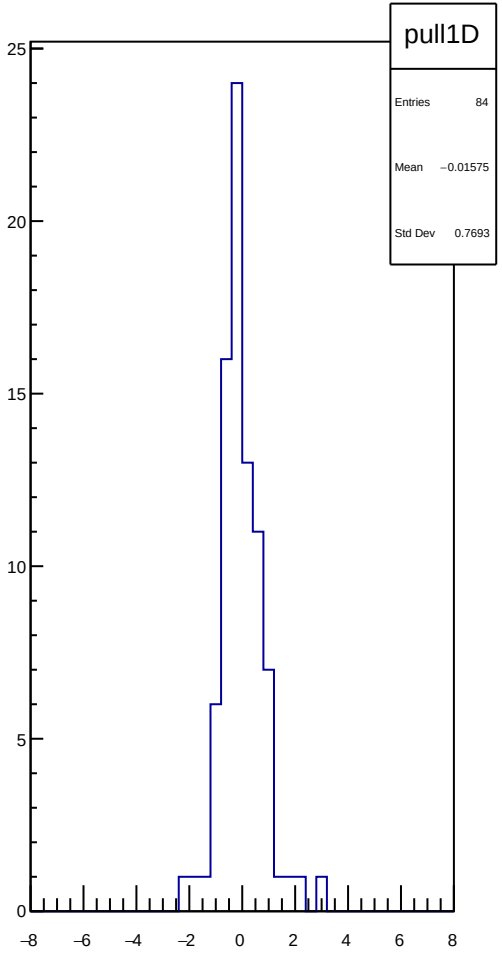

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 40.32 / 83
p0 6.243 ± 0.8884
pull
Entries 84
Mean −671.1
Std Dev 0

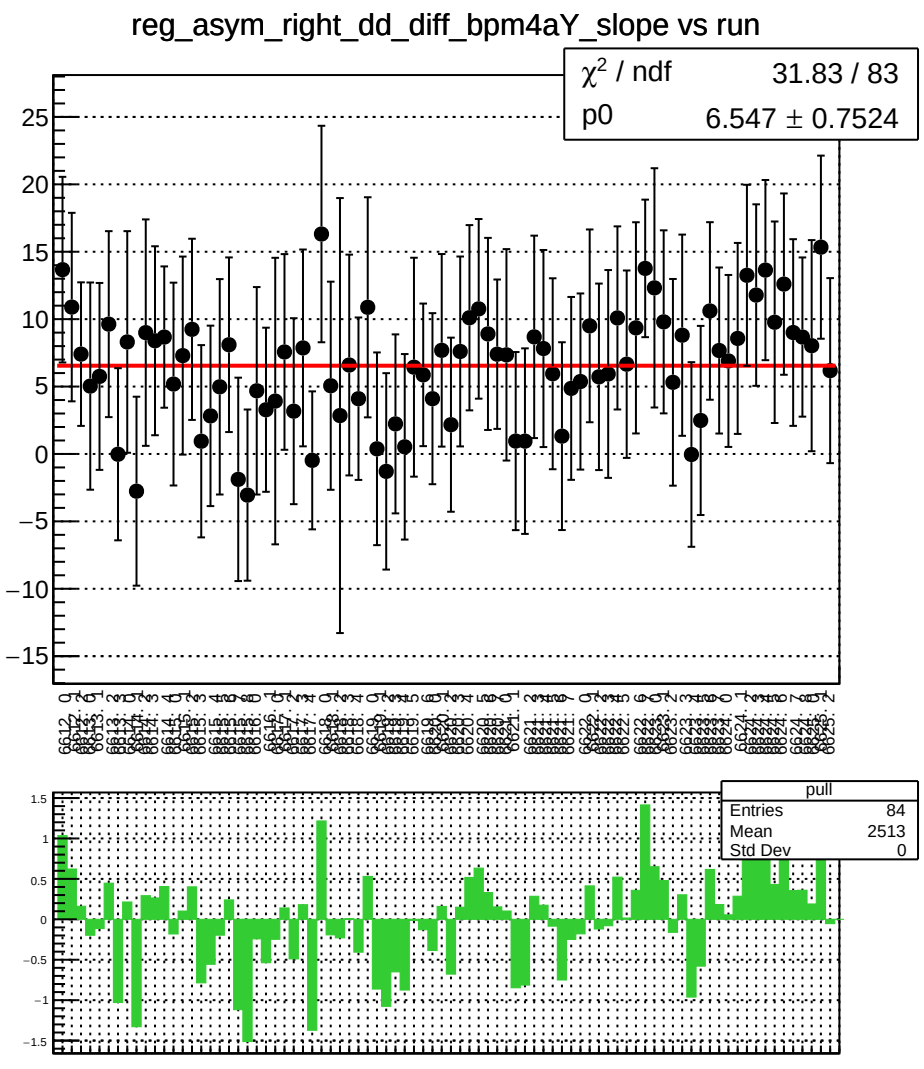

pull1D
Entries 84
Mean 0.00789
Std Dev 0.6928

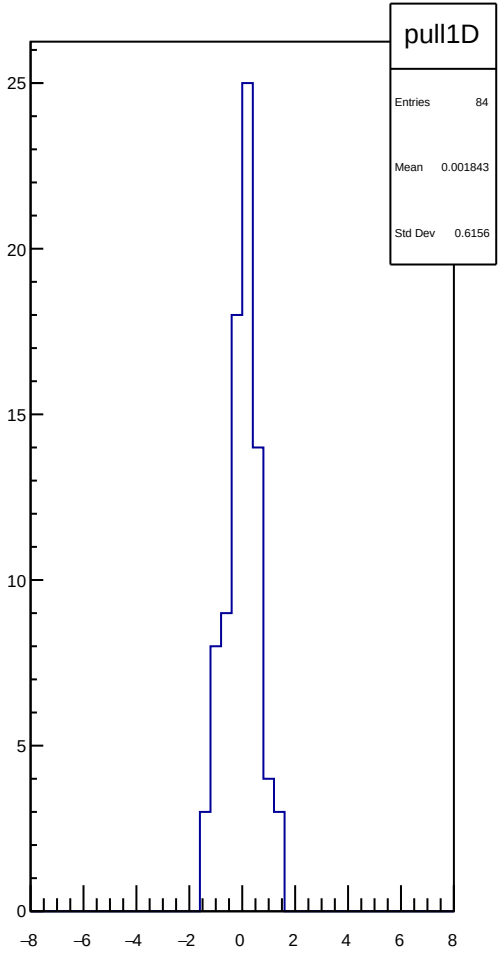

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 303.5 / 83
p0 −26.23 ± 0.04438
pull
Entries 84
Mean −706.4
Std Dev 0

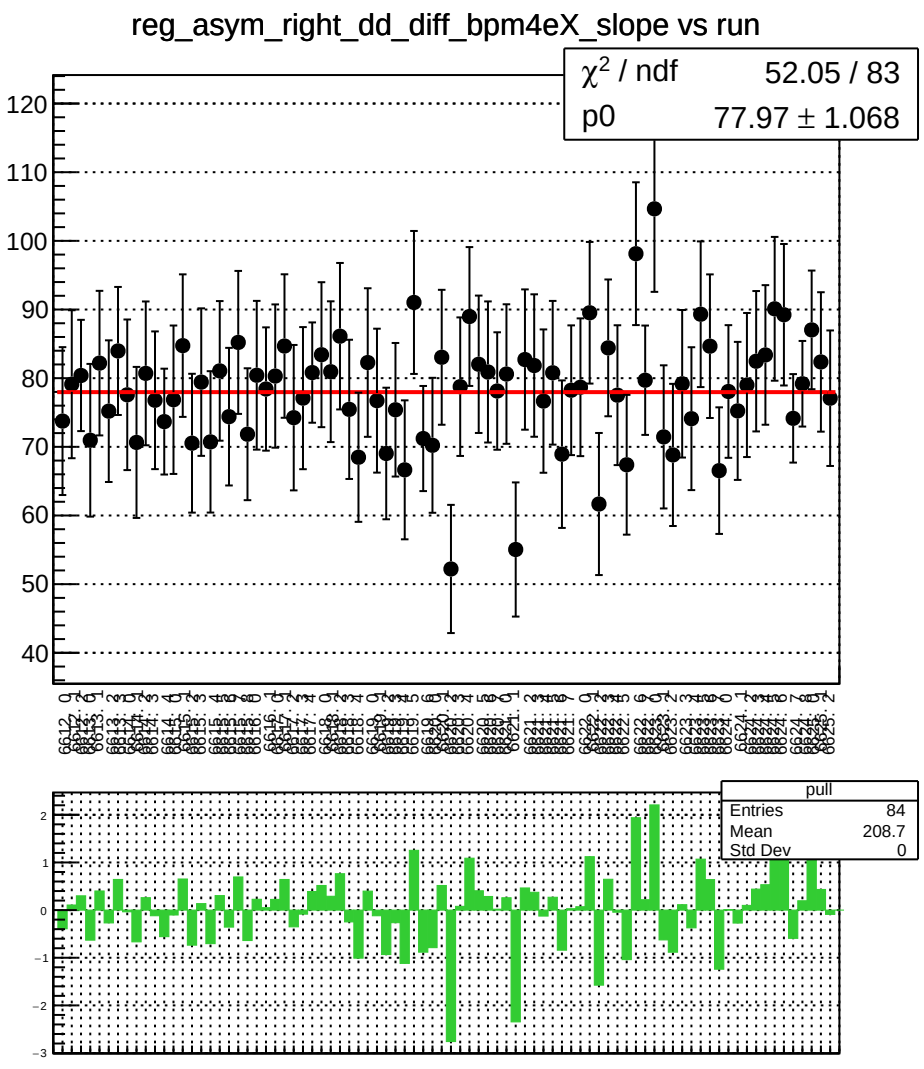

pull1D
Entries 84
Mean 0.0986
Std Dev 1.573

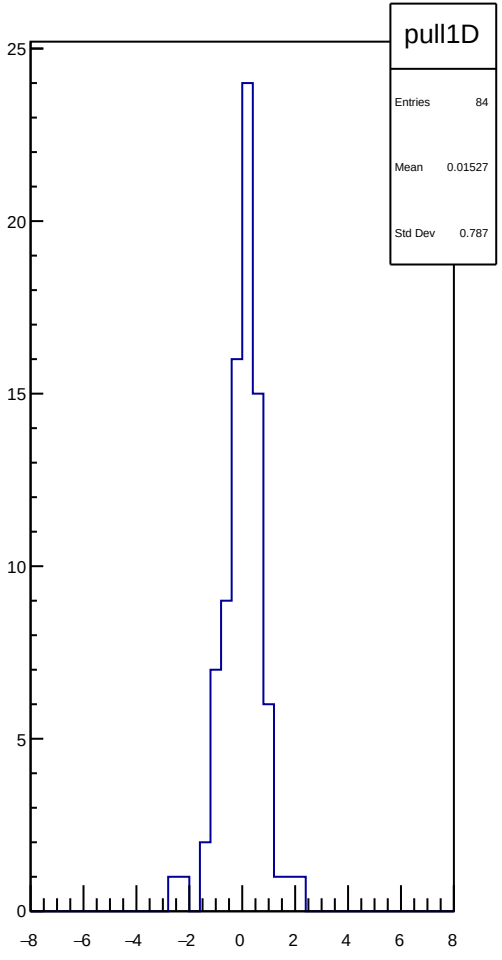

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 49.74 / 83
p0 −44.33 ± 1.038
pull
Entries 84
Mean 164.5
Std Dev 0

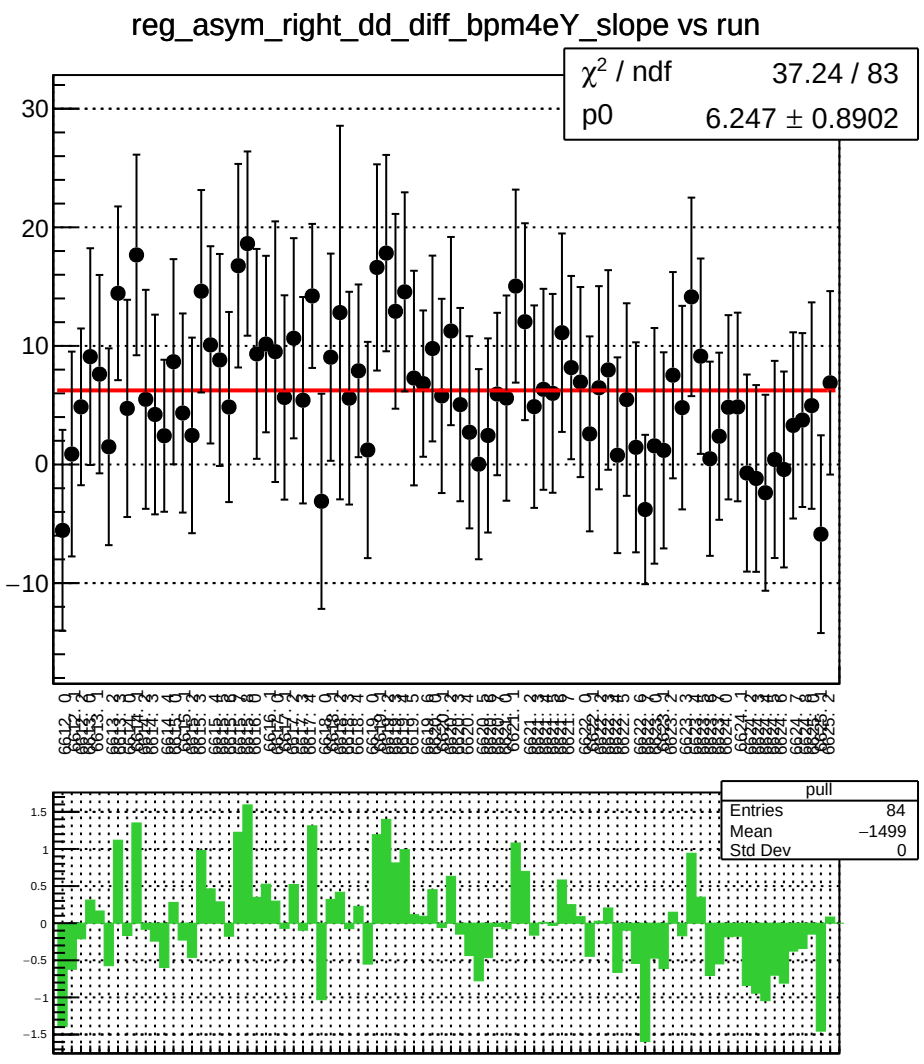

pull1D
Entries 84
Mean −0.01575
Std Dev 0.7693

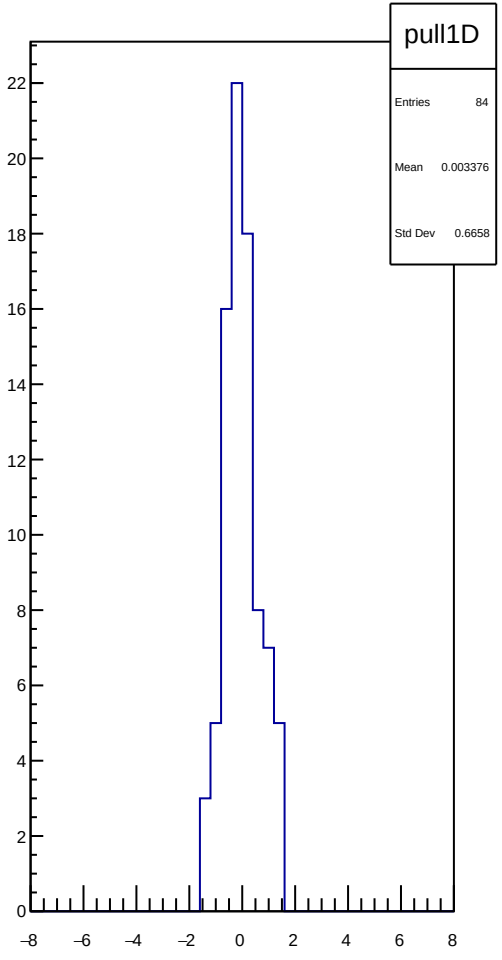

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.83 / 83
p0 6.547 ± 0.7524
pull
Entries 84
Mean 2513
Std Dev 0

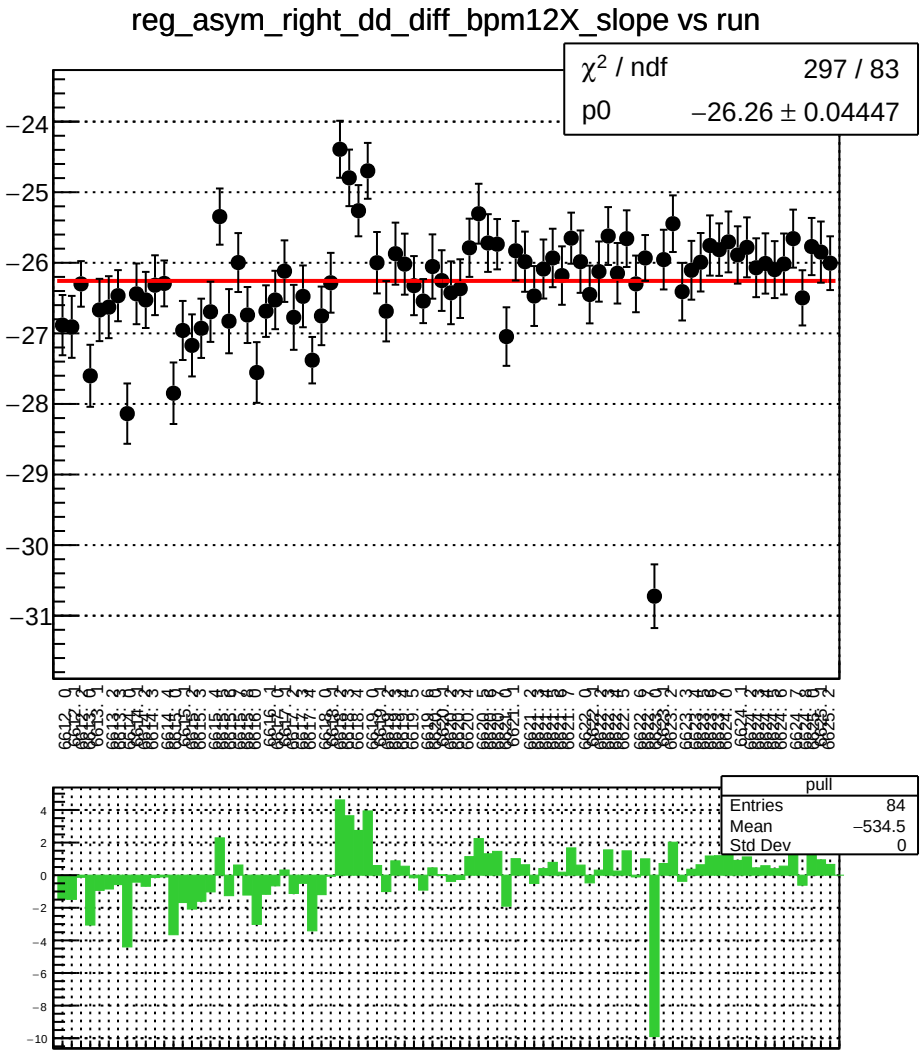

pull1D
Entries 84
Mean 0.001843
Std Dev 0.6156

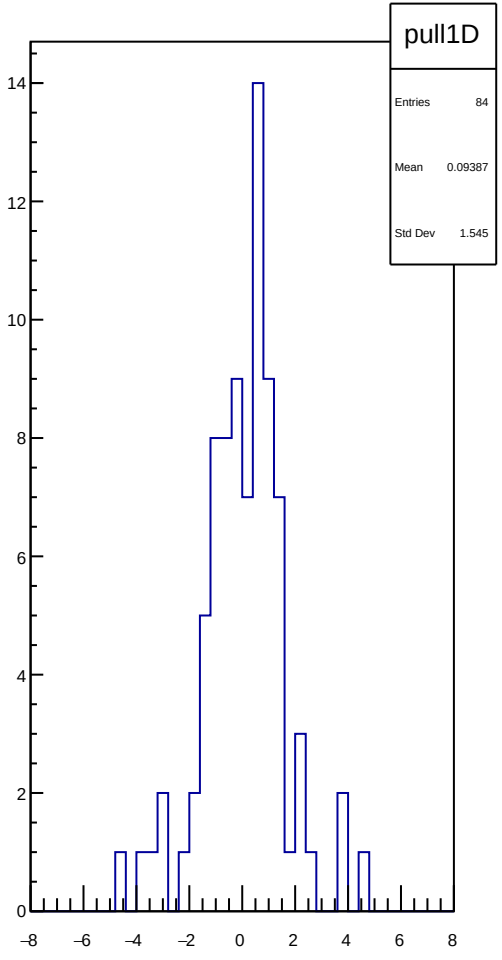

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.05 / 83
p0 77.97 ± 1.068
pull
Entries 84
Mean 208.7
Std Dev 0

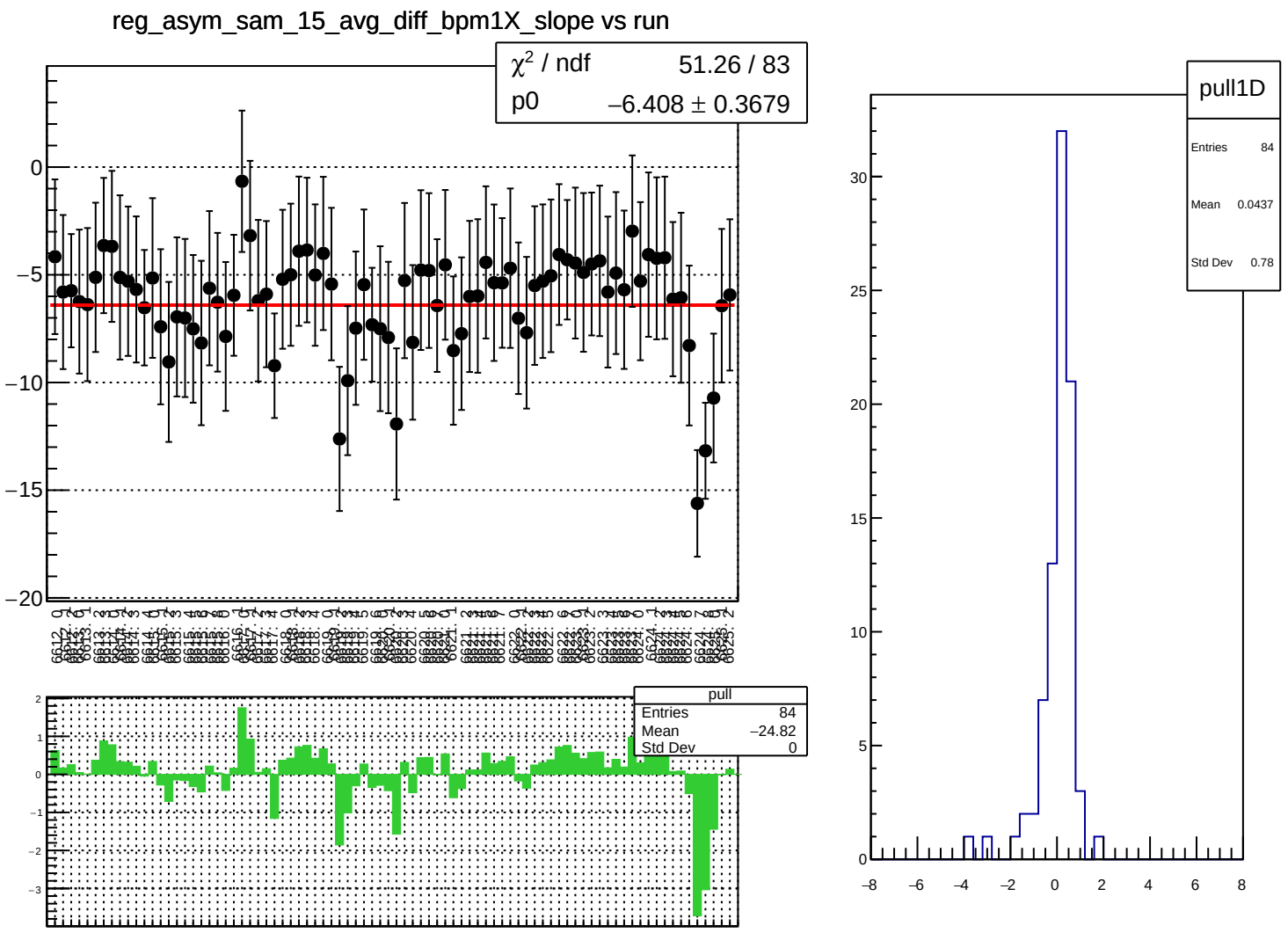

pull1D
Entries 84
Mean 0.01527
Std Dev 0.787

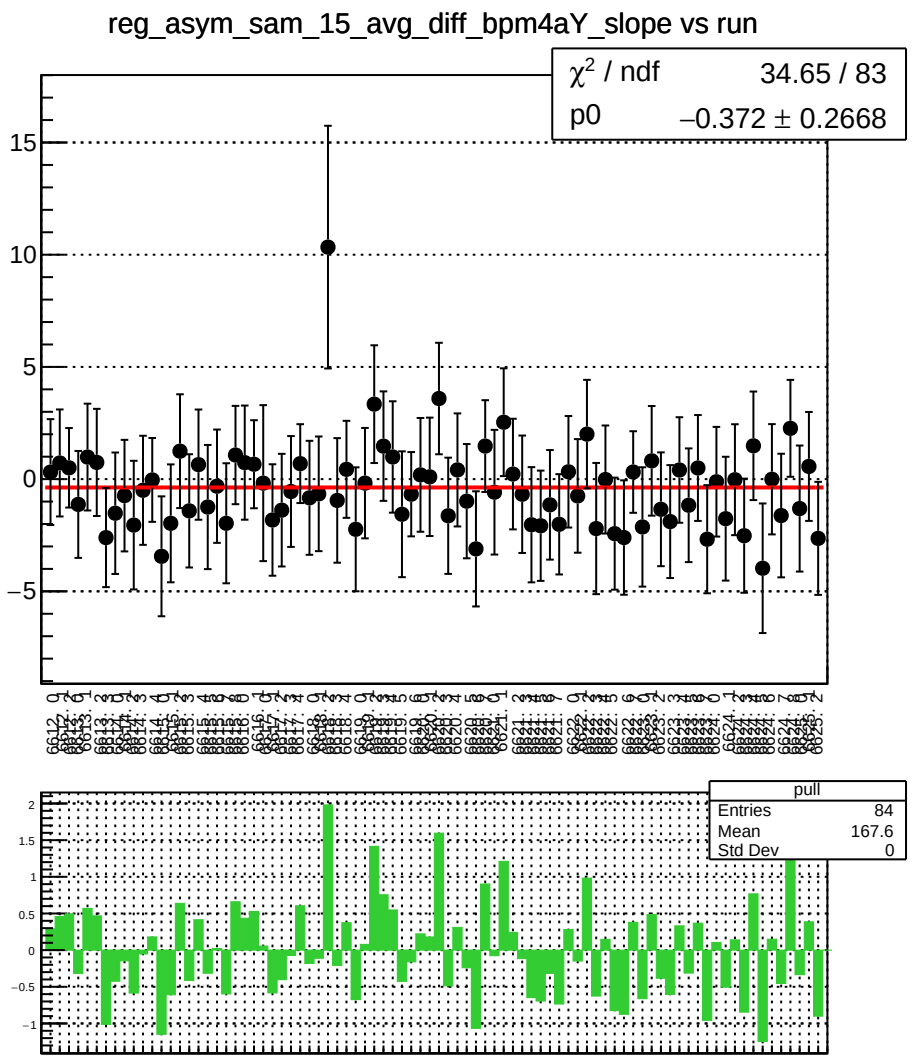

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.24 / 83
p0 6.247 ± 0.8902
pull
Entries 84
Mean −1499
Std Dev 0

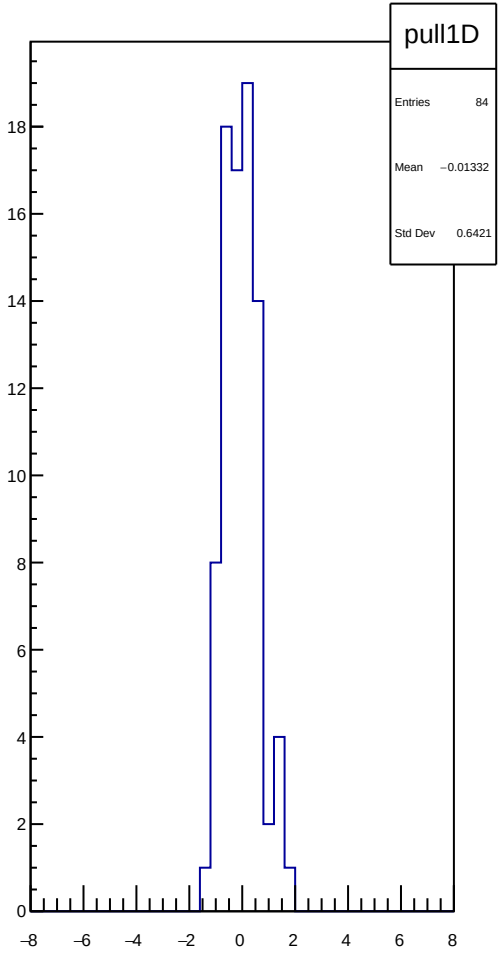

pull1D
Entries 84
Mean 0.003376
Std Dev 0.6658

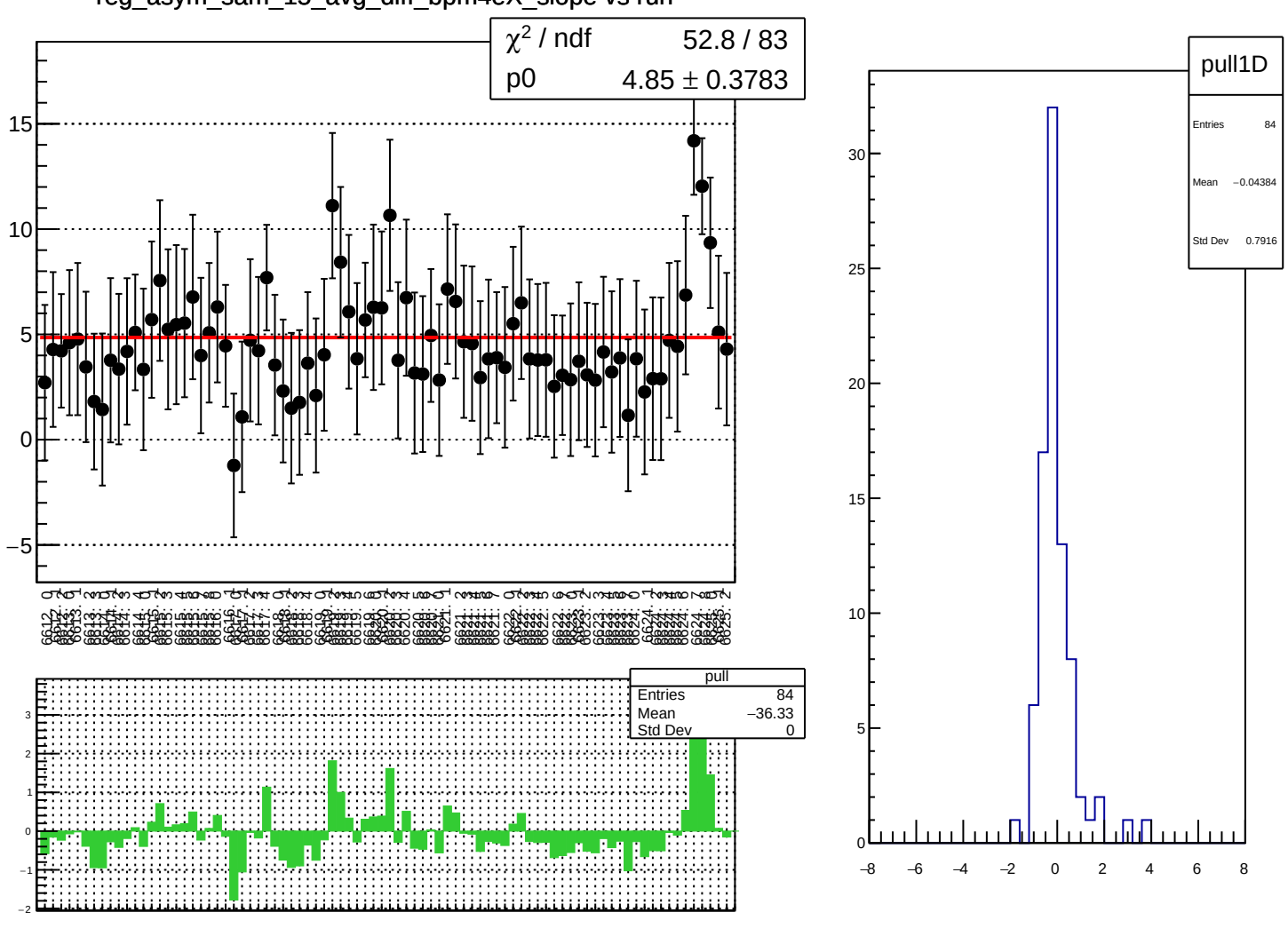

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 297 / 83
p0 −26.26 ± 0.04447
pull
Entries 84
Mean −534.5
Std Dev 0

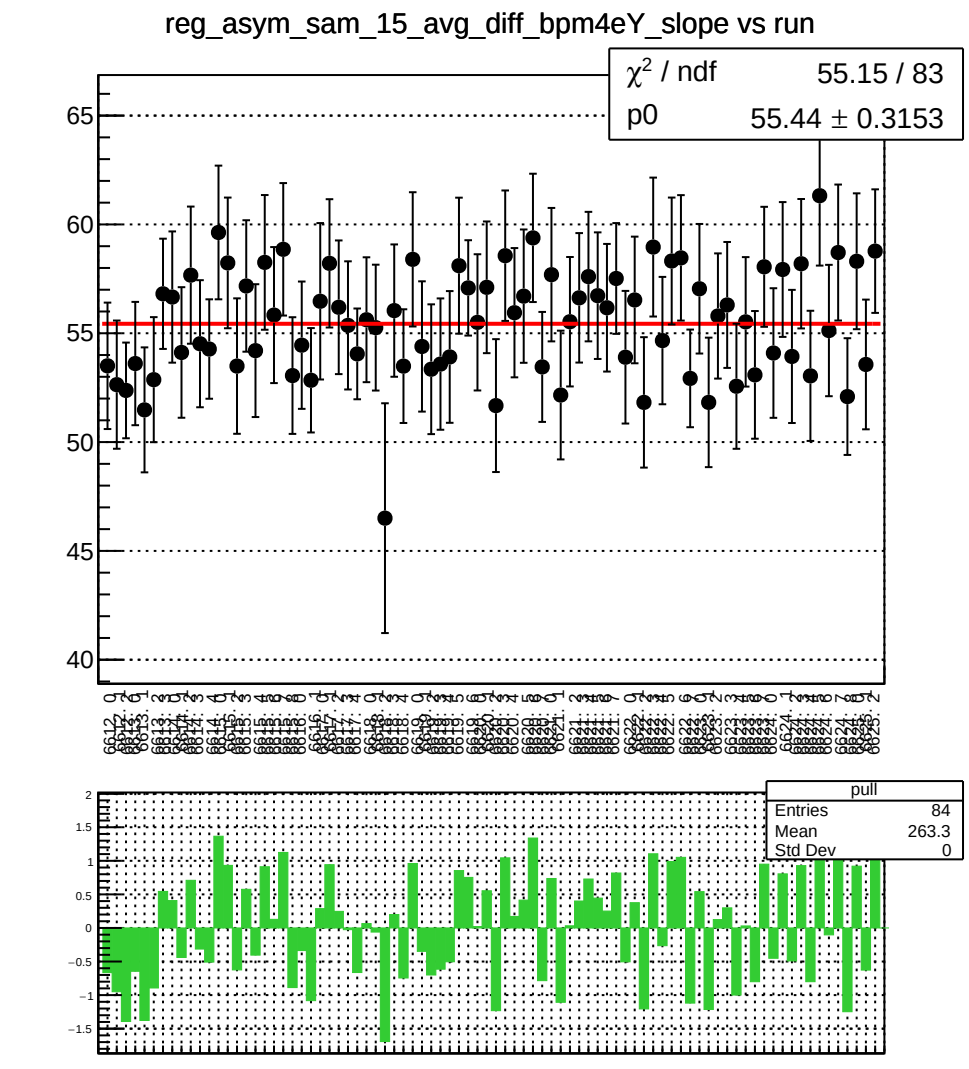

pull1D
Entries 84
Mean 0.09387
Std Dev 1.545

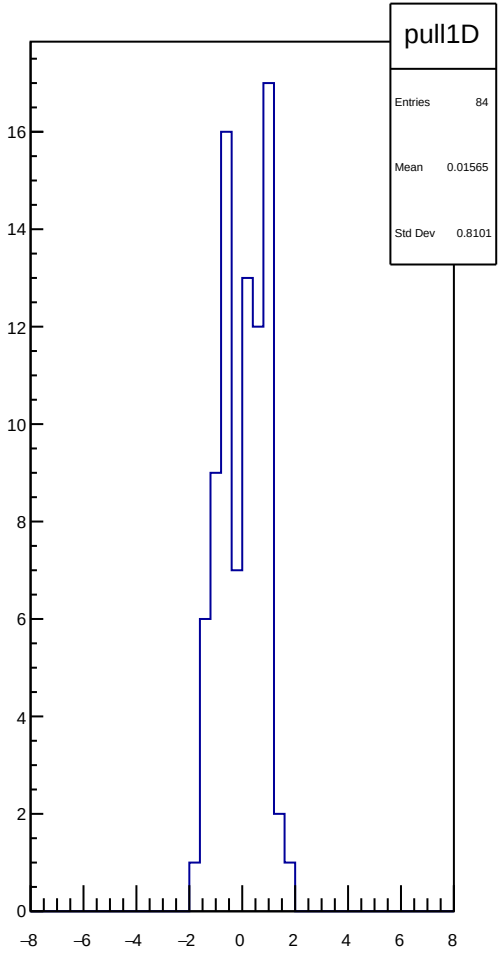

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 51.26 / 83
p0 −6.408 ± 0.3679
pull
Entries 84
Mean −24.82
Std Dev 0
pull1D
Entries 84
Mean 0.0437
Std Dev 0.78

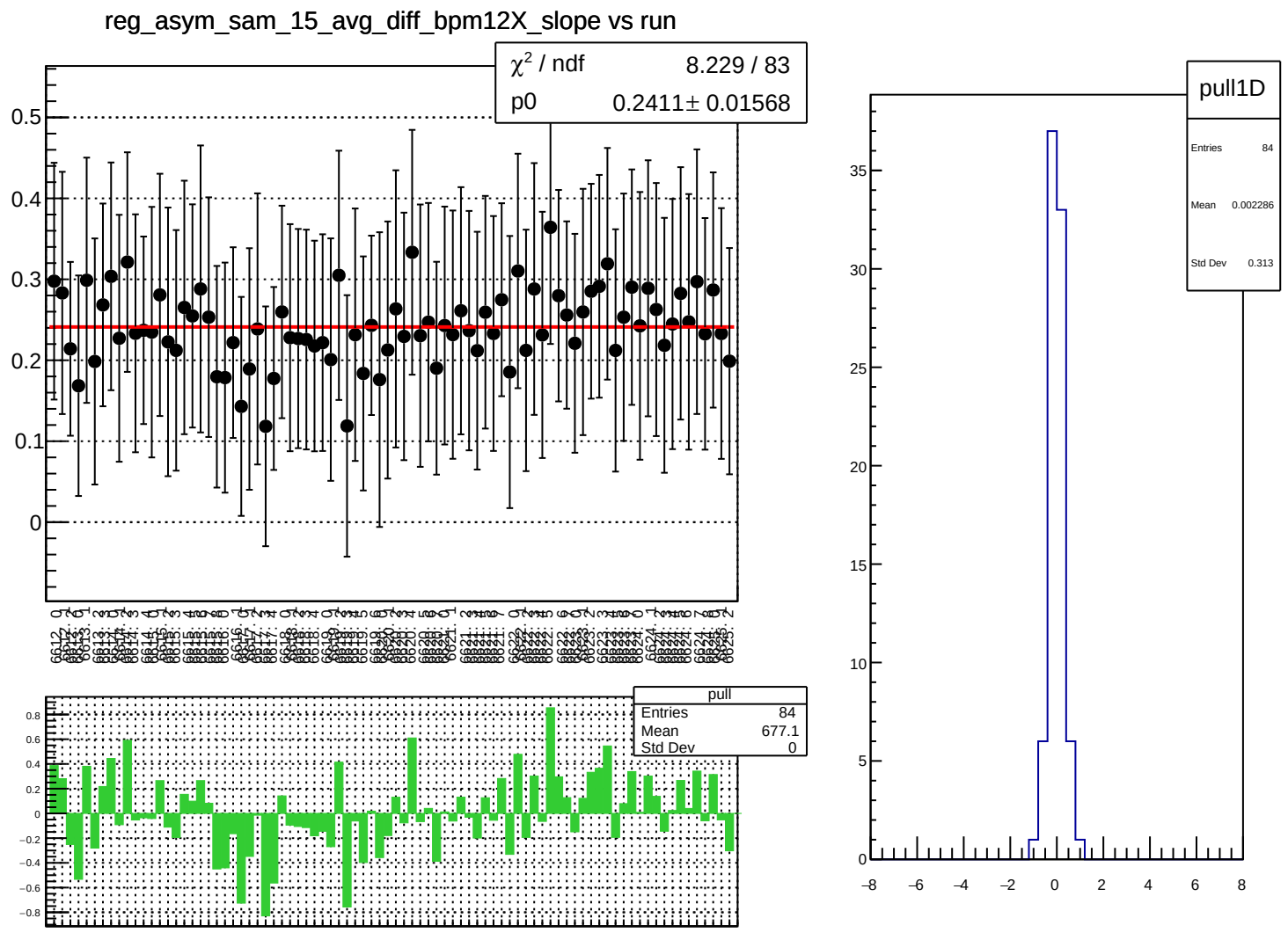

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.65 / 83
p0 −0.372 ± 0.2668
pull
Entries 84
Mean 167.6
Std Dev 0

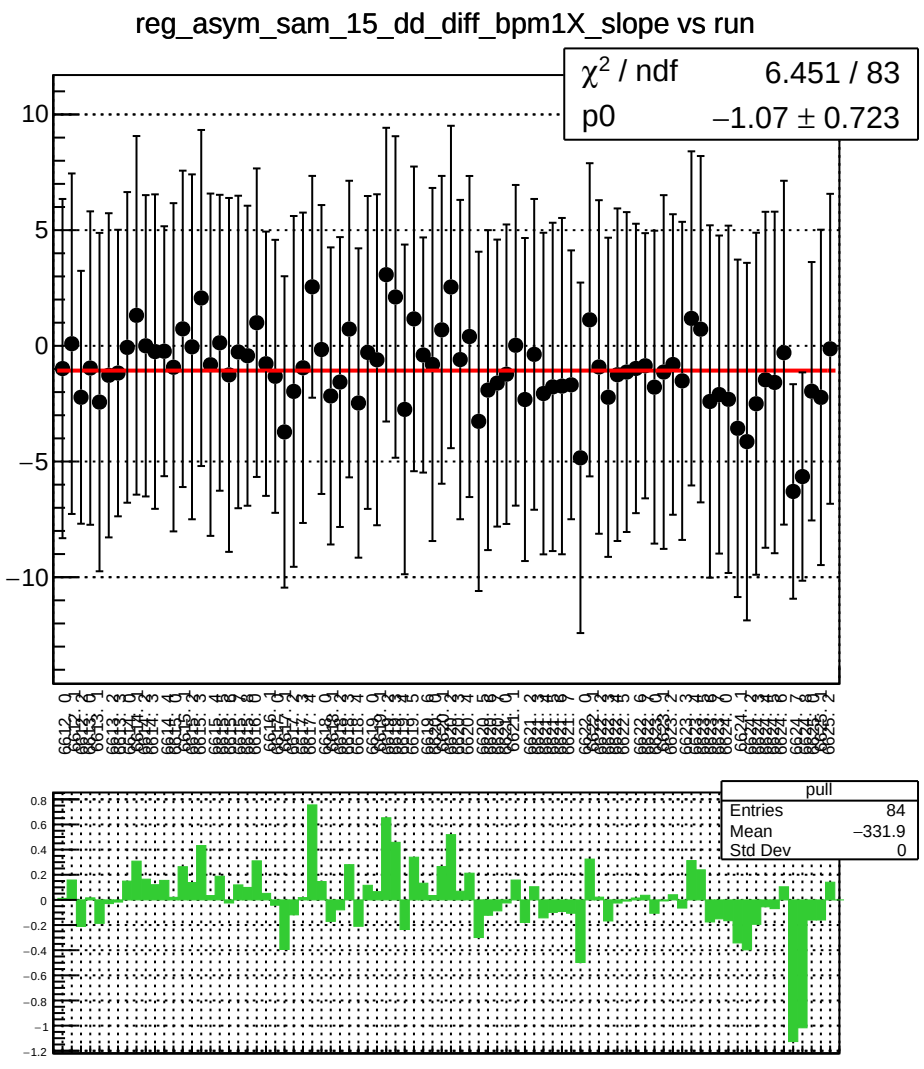

pull1D
Entries 84
Mean −0.01332
Std Dev 0.6421

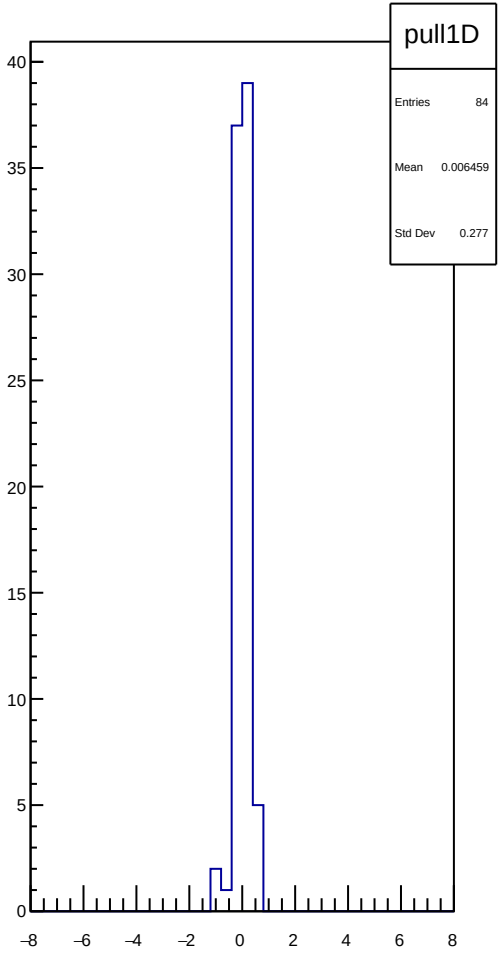

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.8 / 83
p0 4.85 ± 0.3783
pull
Entries 84
Mean −36.33
Std Dev 0
pull1D
Entries 84
Mean −0.04384
Std Dev 0.7916

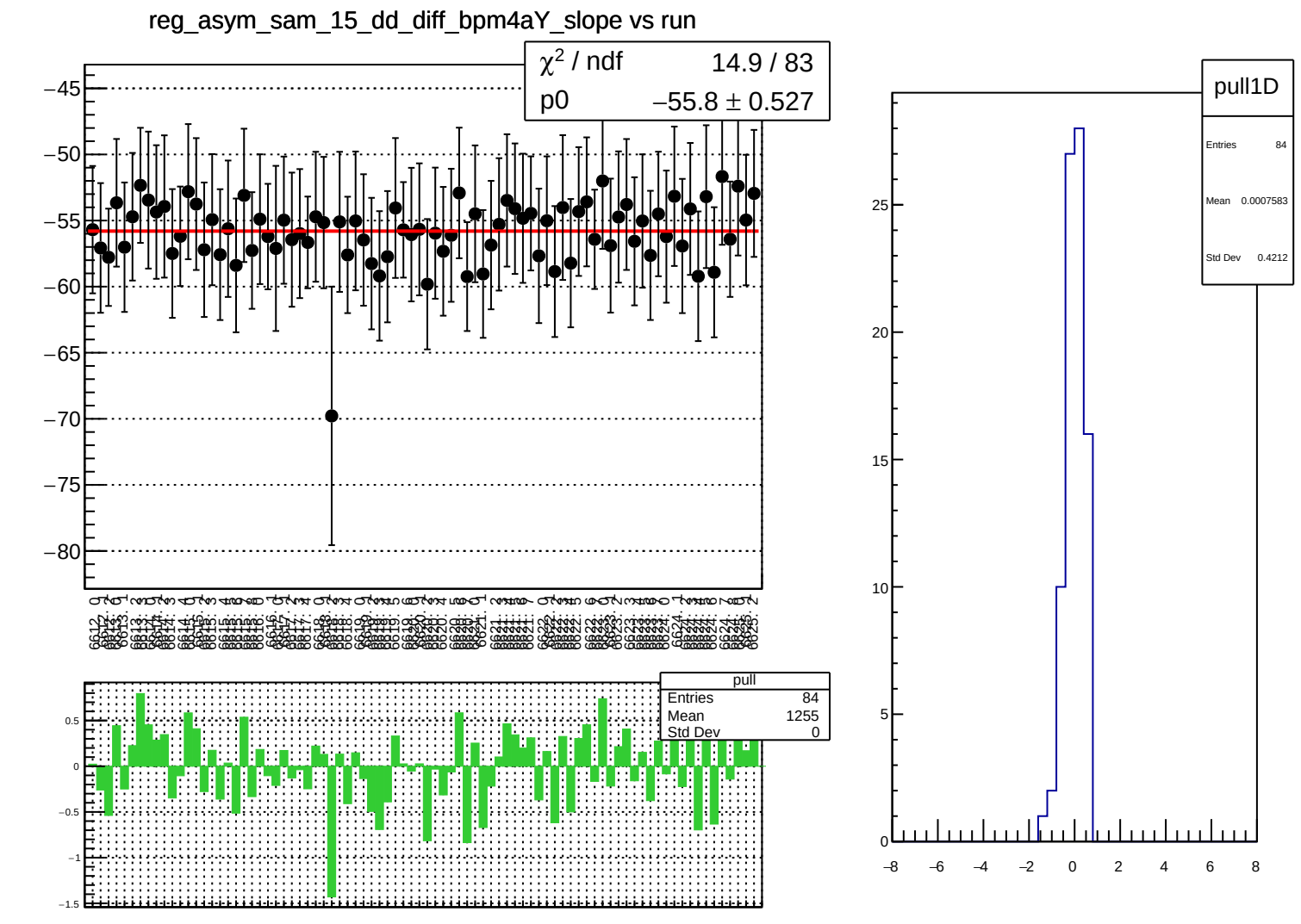

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 55.15 / 83
p0 55.44 ± 0.3153
pull
Entries 84
Mean 263.3
Std Dev 0

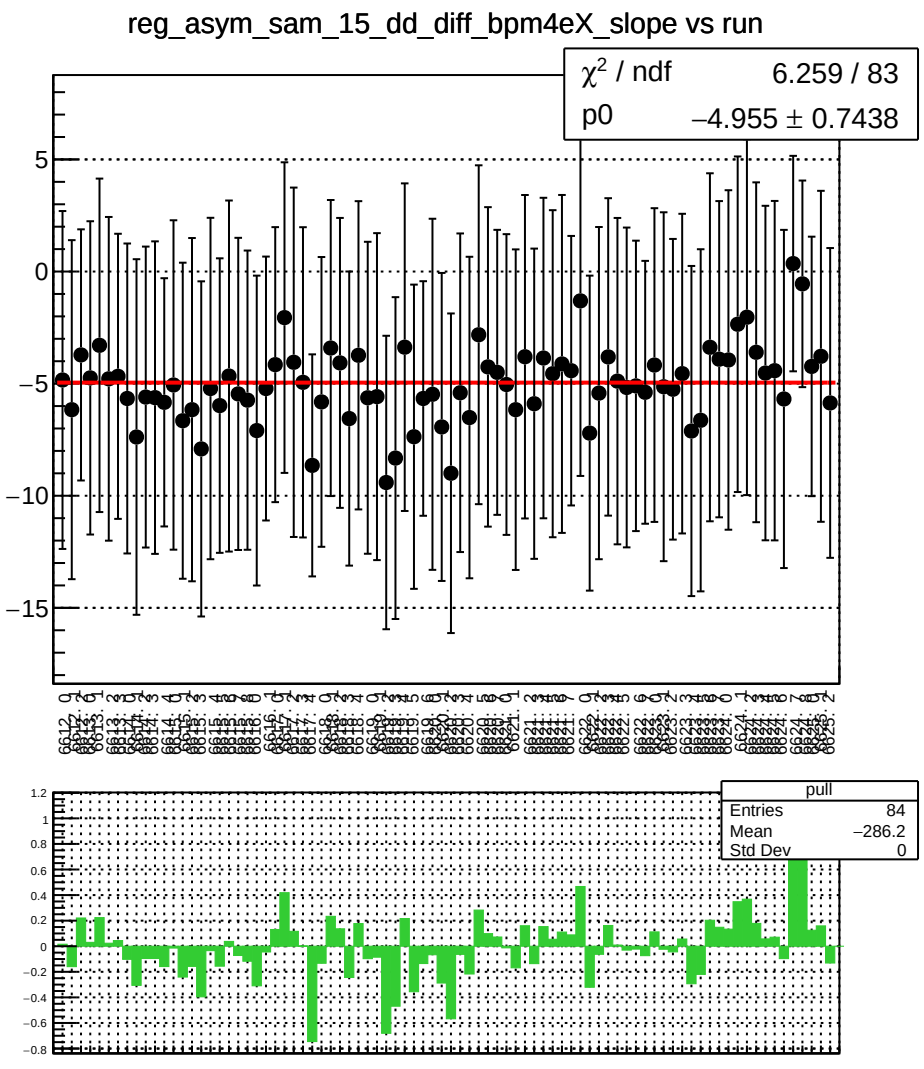

pull1D
Entries 84
Mean 0.01565
Std Dev 0.8101

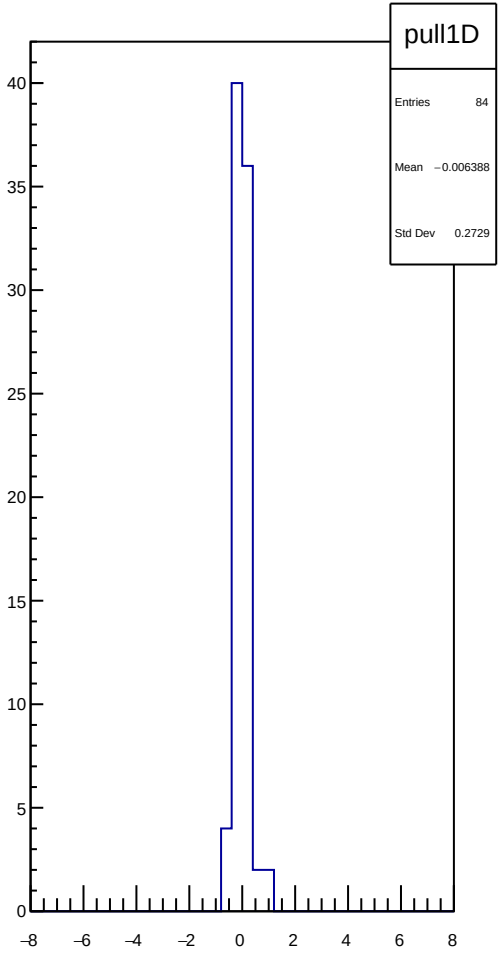

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 8.229 / 83
p0 0.2411± 0.01568
pull
Entries 84
Mean 677.1
Std Dev 0
pull1D
Entries 84
Mean 0.002286
Std Dev 0.313

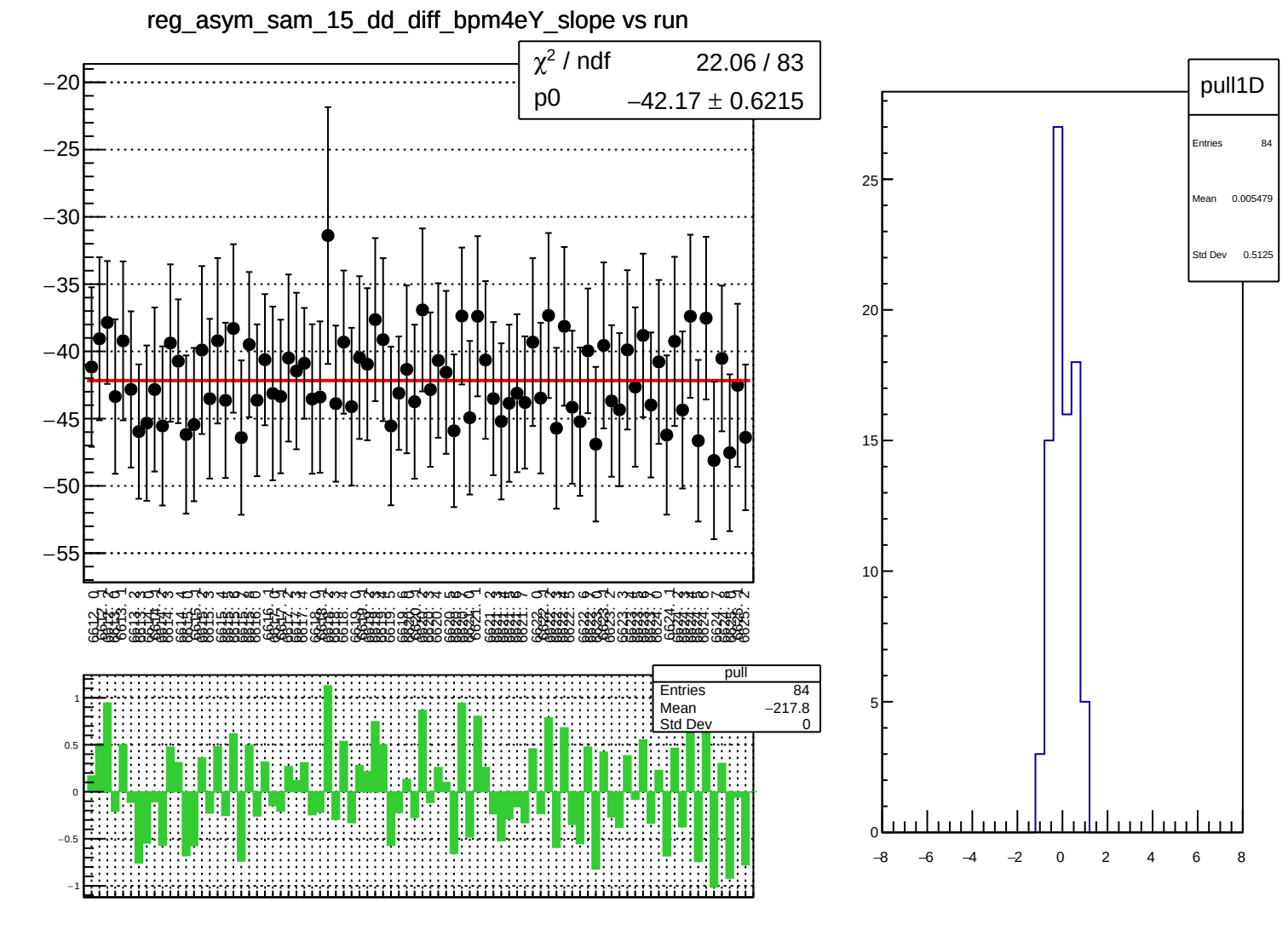

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 6.451 / 83
p0 −1.07 ± 0.723
pull
Entries 84
Mean −331.9
Std Dev 0

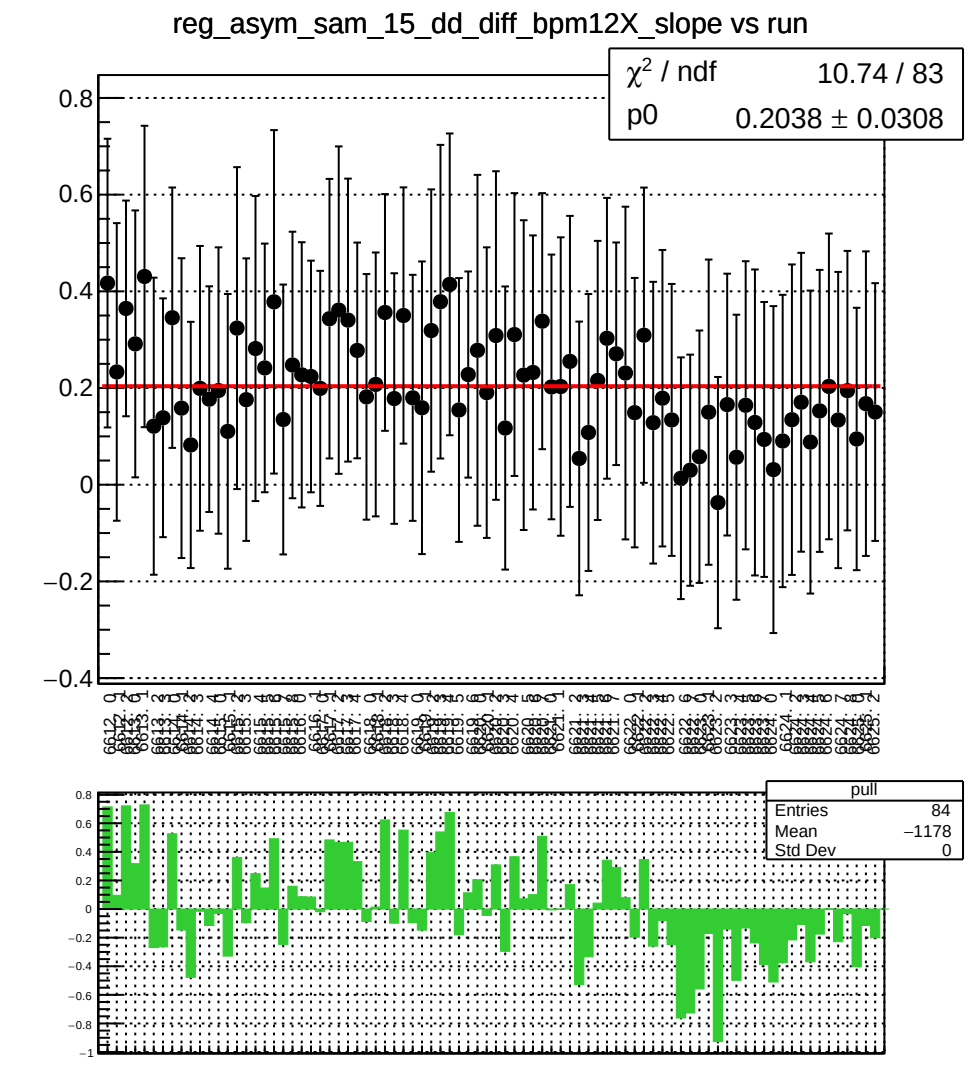

pull1D
Entries 84
Mean 0.006459
Std Dev 0.277

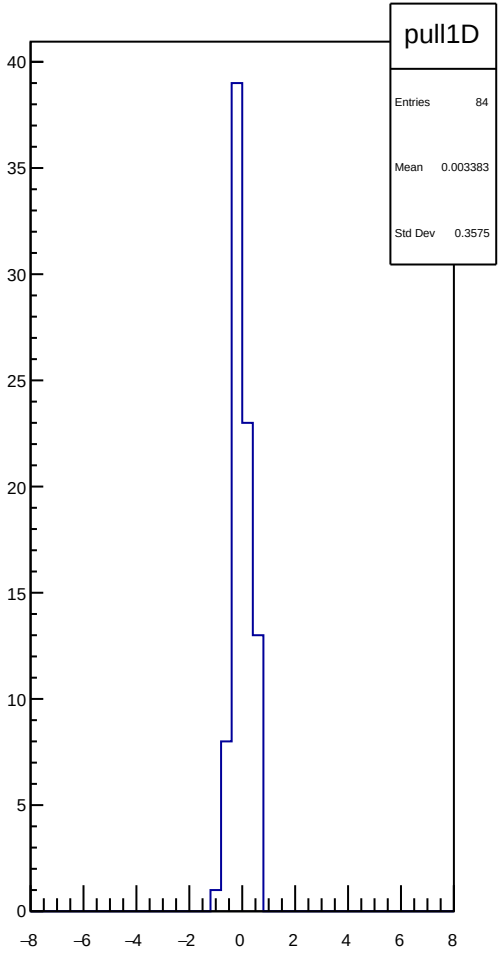

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.9 / 83
p0 −55.8 ± 0.527
pull
Entries 84
Mean 1255
Std Dev 0
pull1D
Entries 84
Mean 0.0007583
Std Dev 0.4212

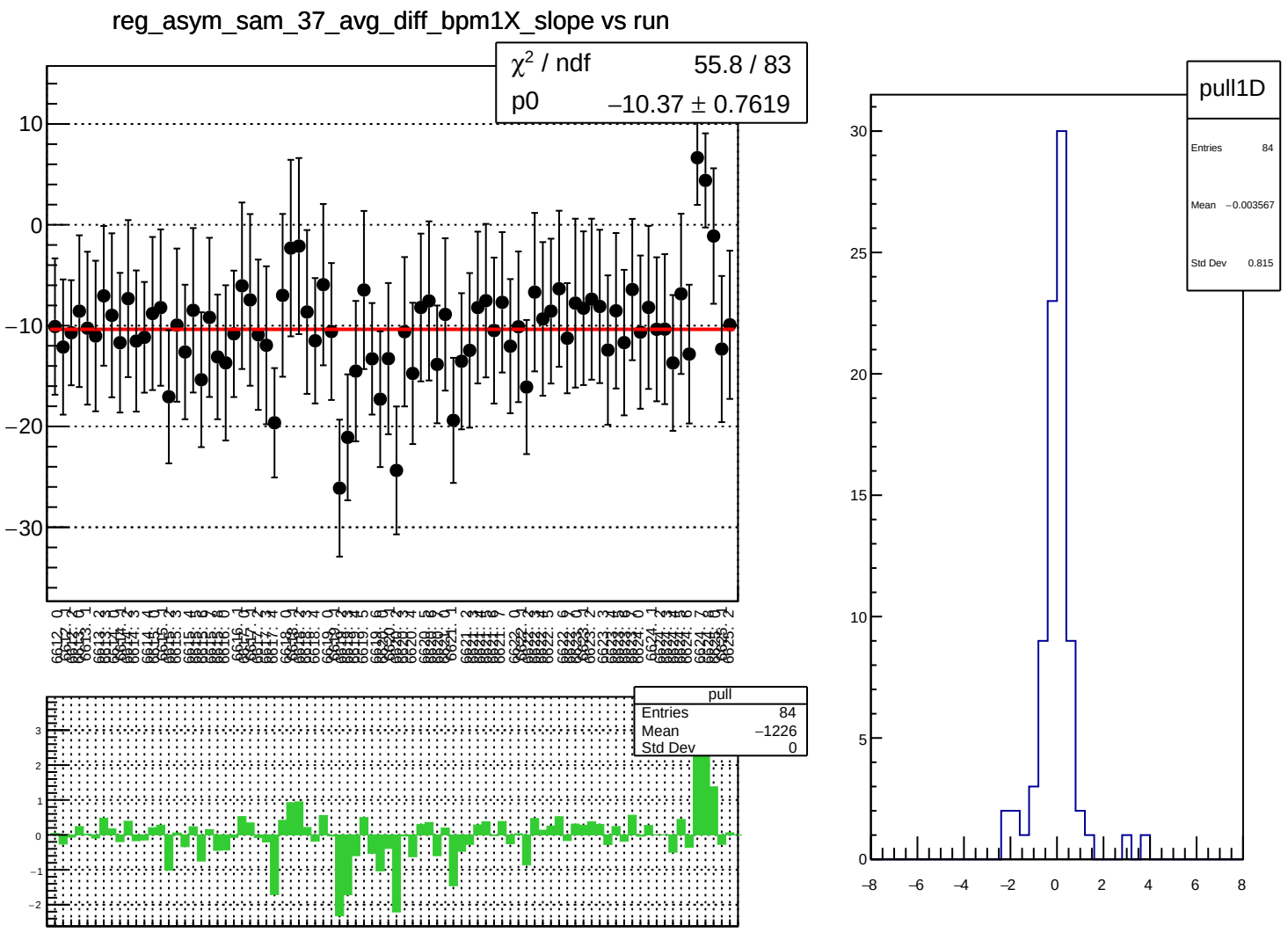

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.259 / 83
p0 −4.955 ± 0.7438
pull
Entries 84
Mean −286.2
Std Dev 0

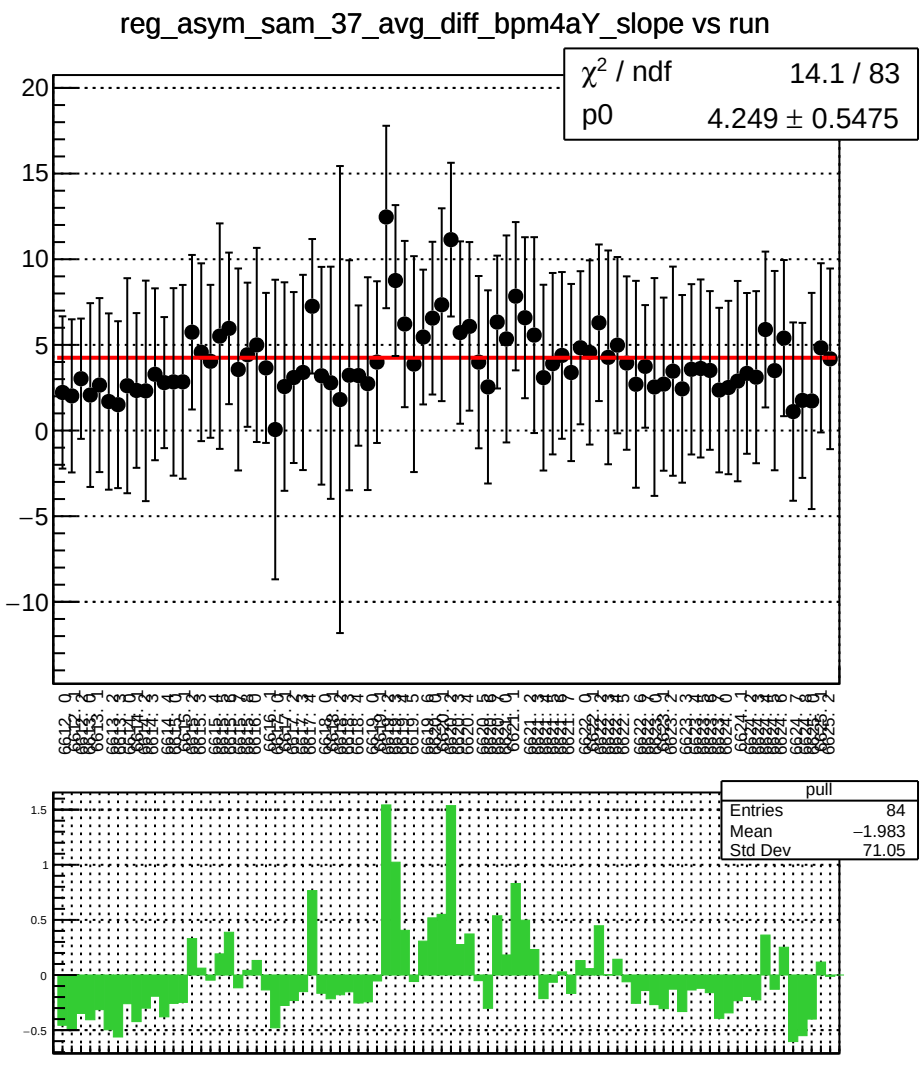

pull1D
Entries 84
Mean −0.006388
Std Dev 0.2729

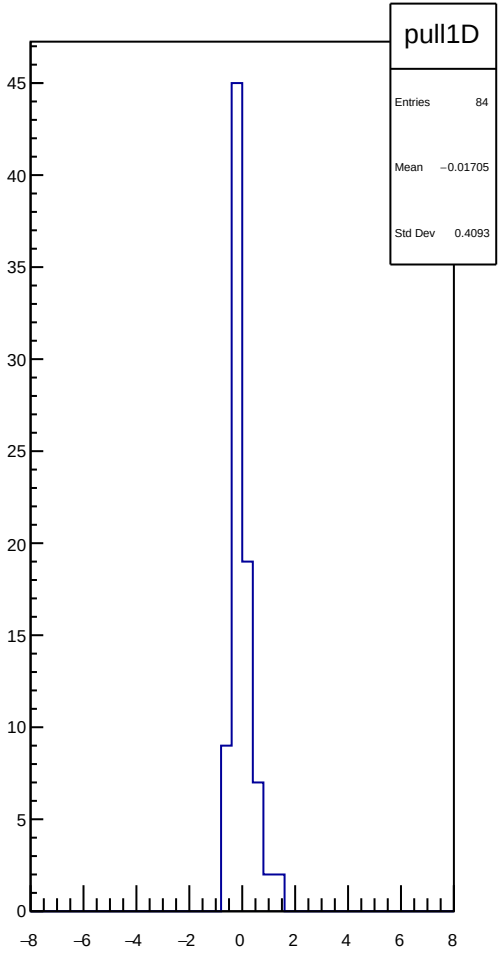

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.06 / 83
p0 −42.17 ± 0.6215
pull
Entries 84
Mean −217.8
Std Dev 0
pull1D
Entries 84
Mean 0.005479
Std Dev 0.5125

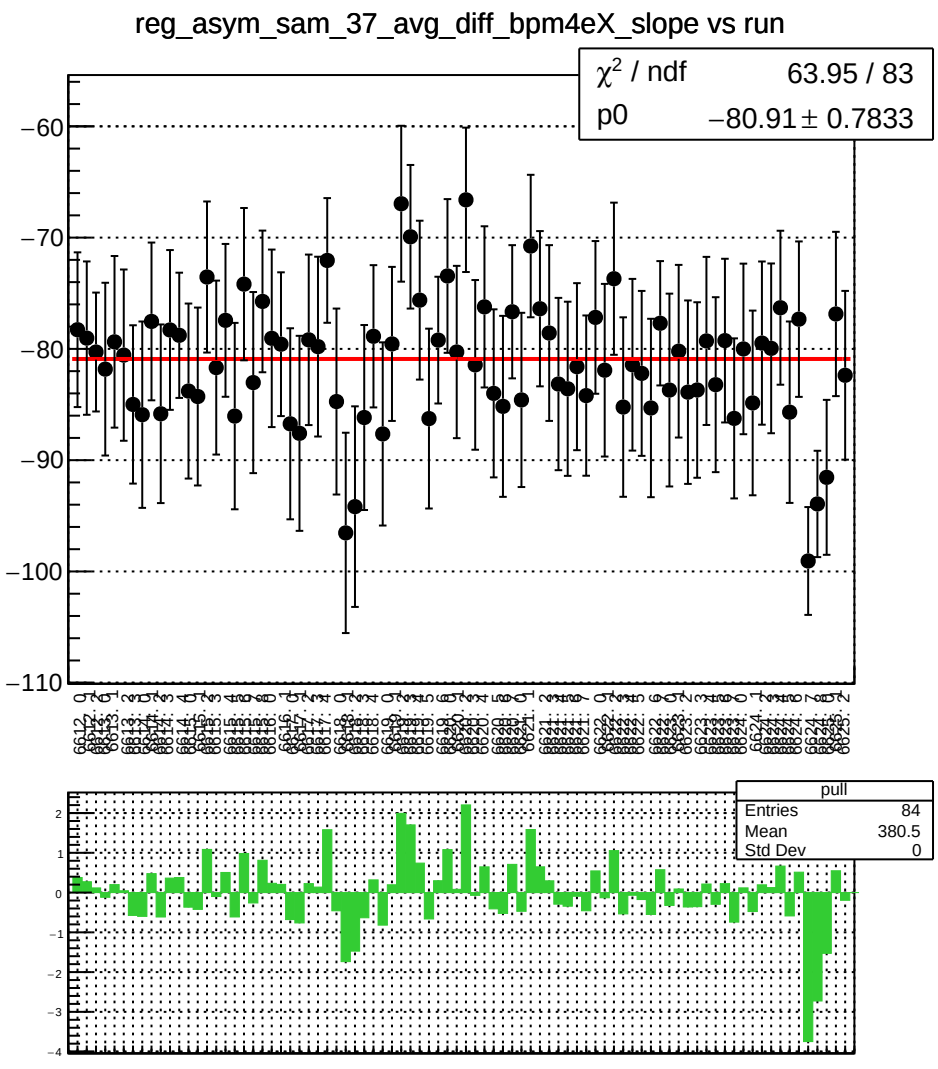

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 10.74 / 83
p0 0.2038 ± 0.0308
pull
Entries 84
Mean −1178
Std Dev 0

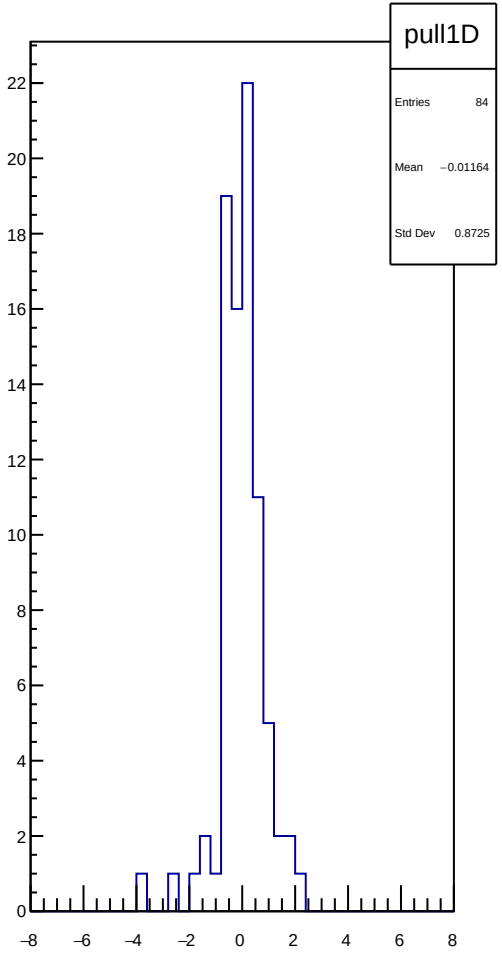

pull1D
Entries 84
Mean 0.003383
Std Dev 0.3575

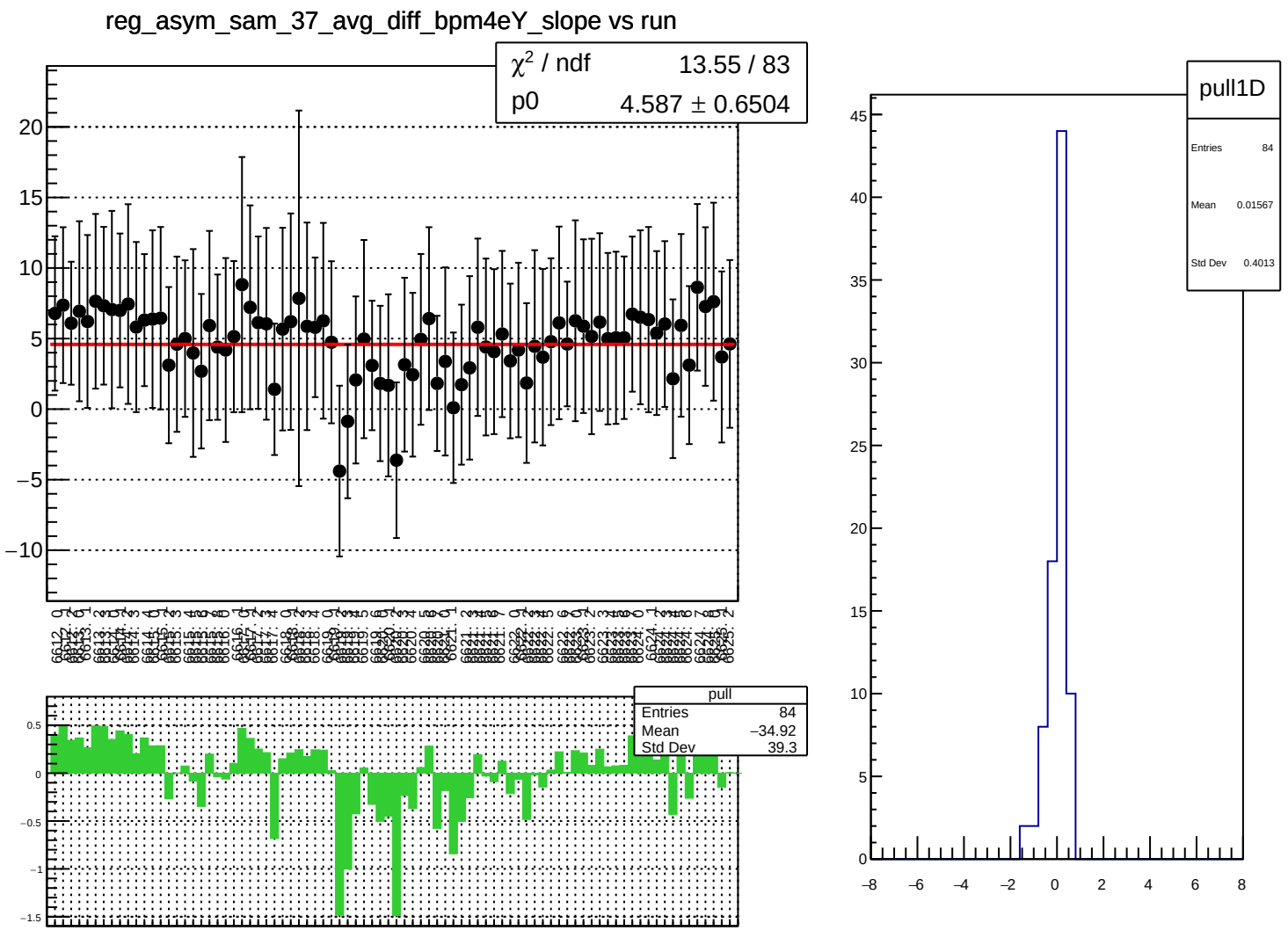

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 55.8 / 83
p0 −10.37 ± 0.7619
pull
Entries 84
Mean −1226
Std Dev 0
pull1D
Entries 84
Mean −0.003567
Std Dev 0.815

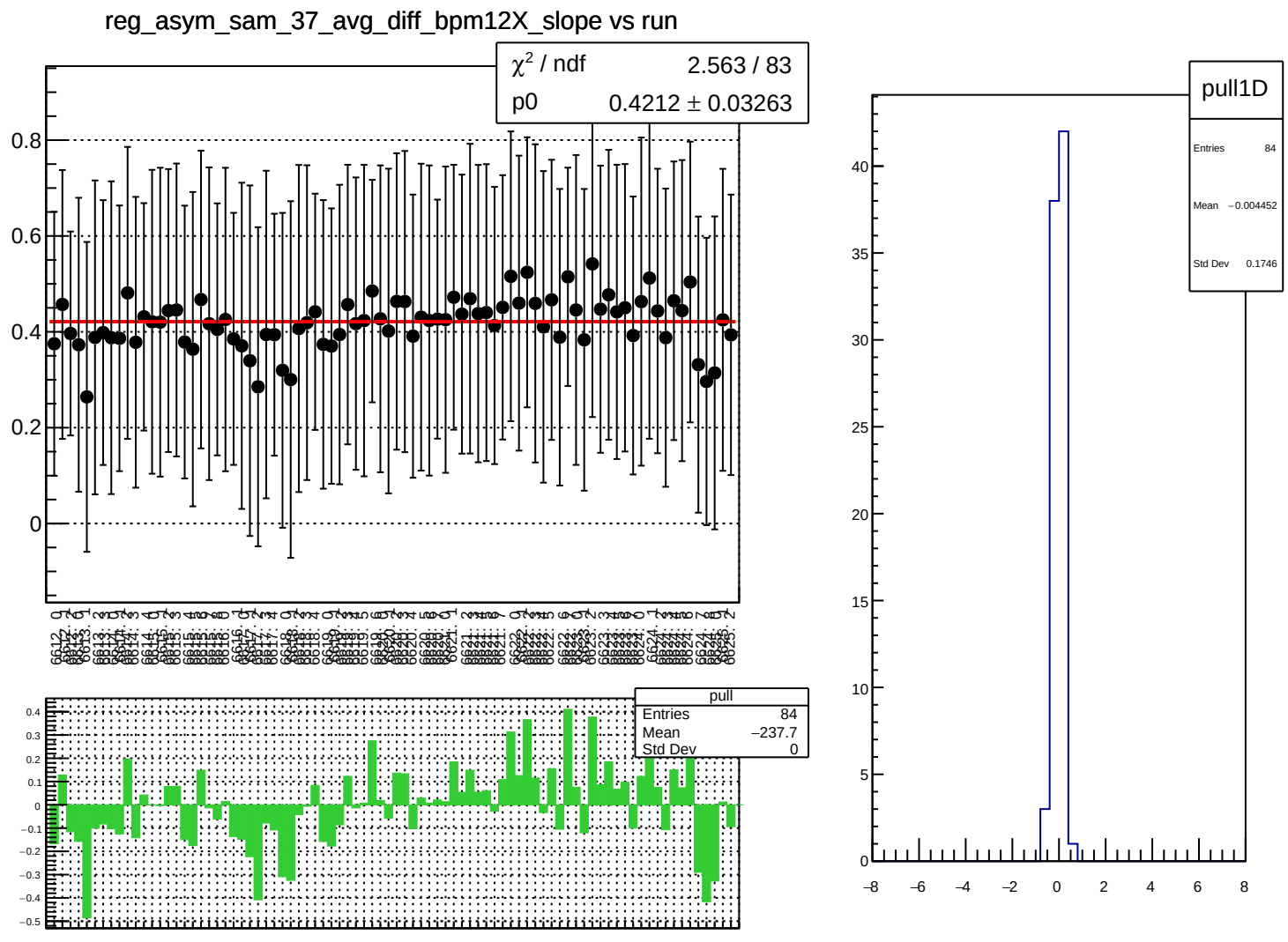

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.1 / 83
p0 4.249 ± 0.5475
pull
Entries 84
Mean −1.983
Std Dev 71.05

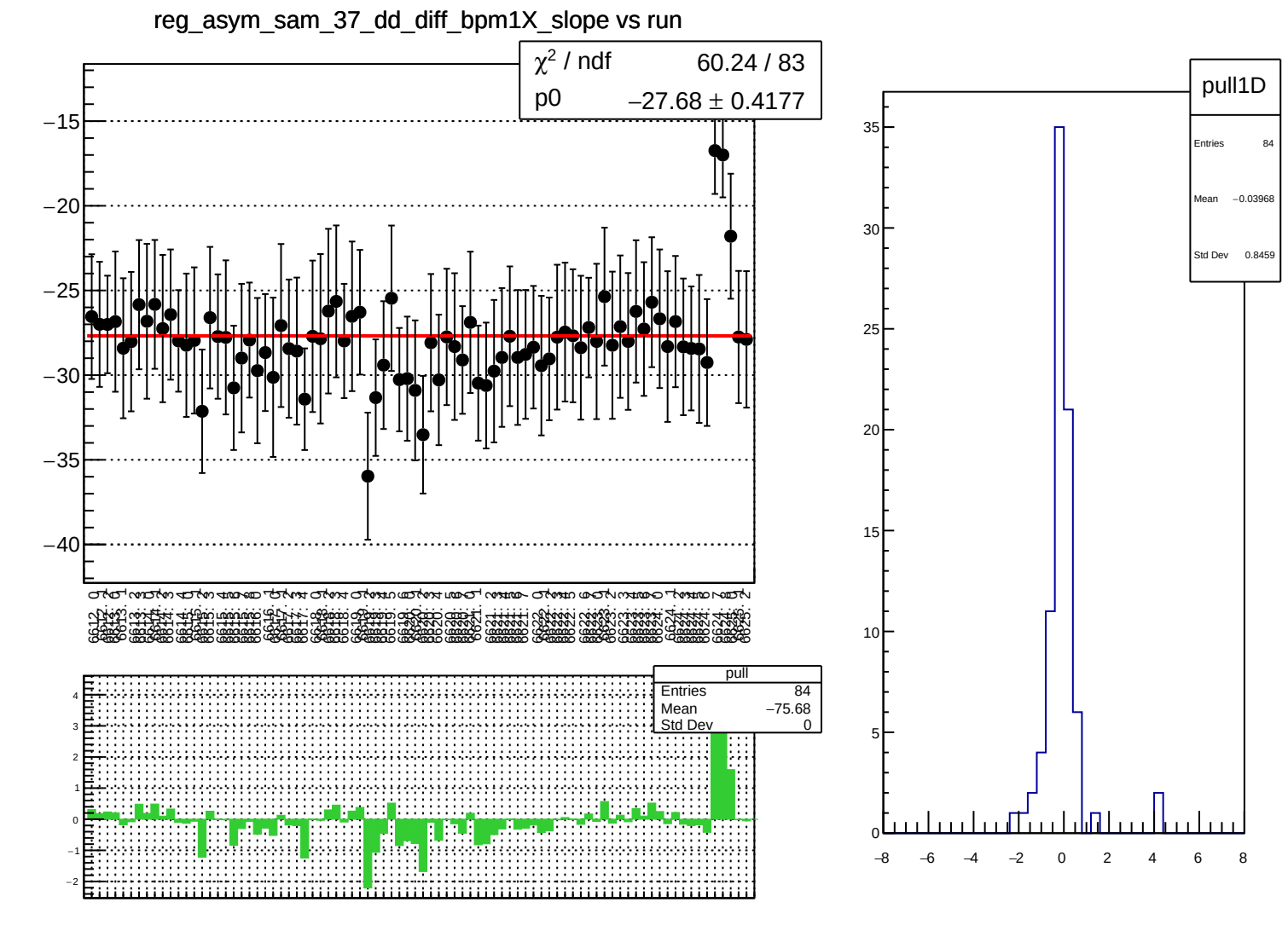

pull1D
Entries 84
Mean −0.01705
Std Dev 0.4093

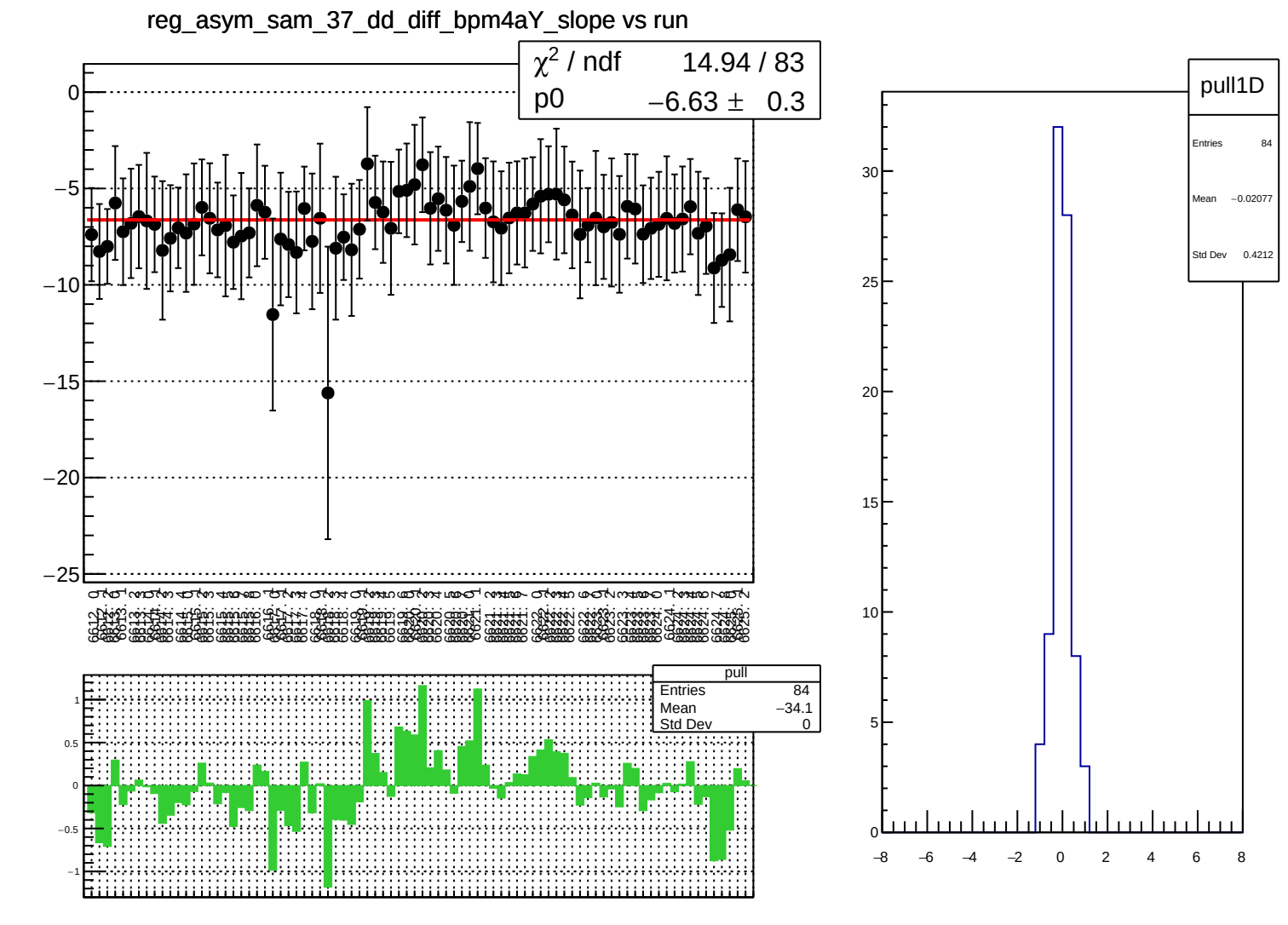

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 63.95 / 83
p0 −80.91 ± 0.7833
pull
Entries 84
Mean 380.5
Std Dev 0

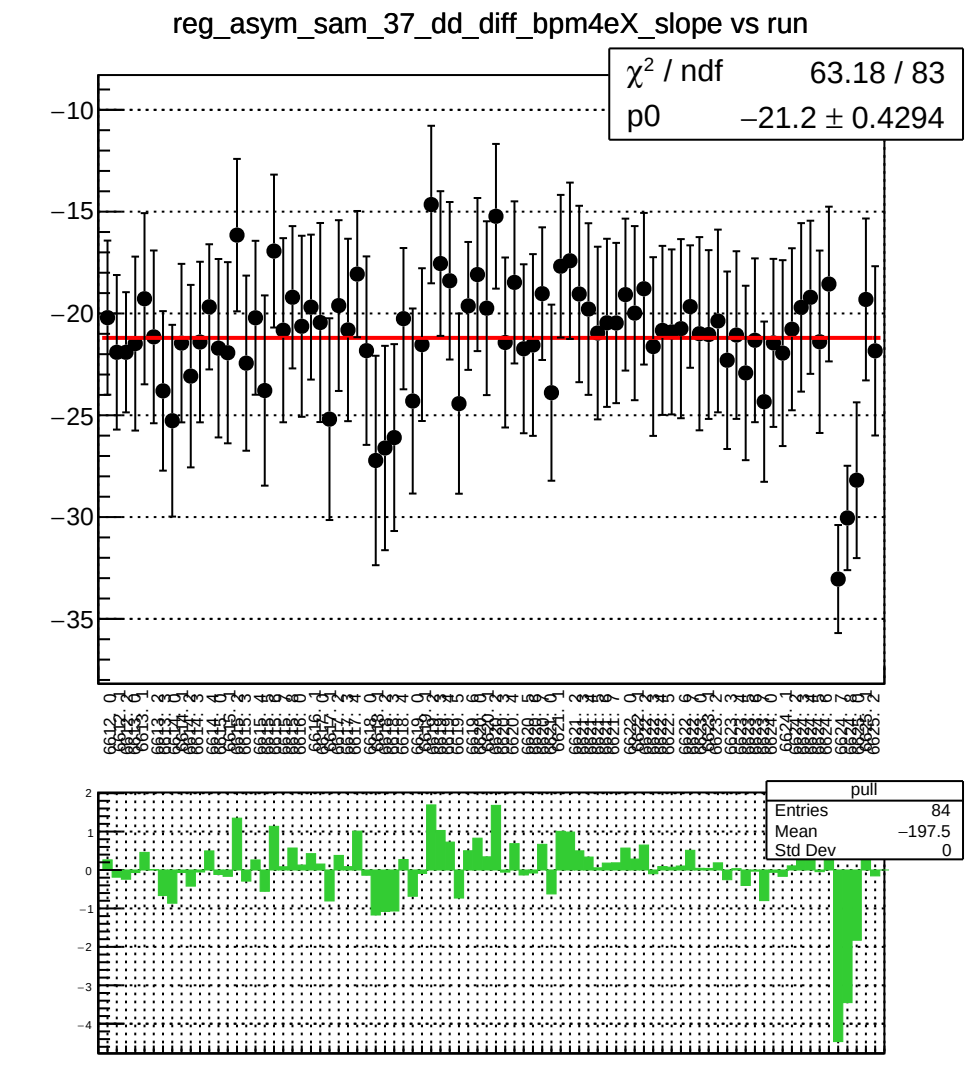

pull1D
Entries 84
Mean −0.01164
Std Dev 0.8725

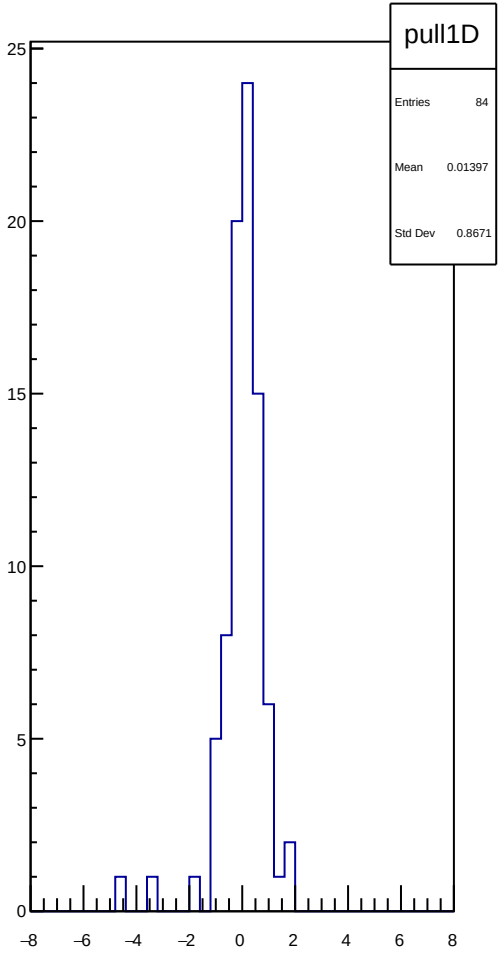

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.55 / 83
p0 4.587 ± 0.6504
pull
Entries 84
Mean −34.92
Std Dev 39.3
pull1D
Entries 84
Mean 0.01567
Std Dev 0.4013

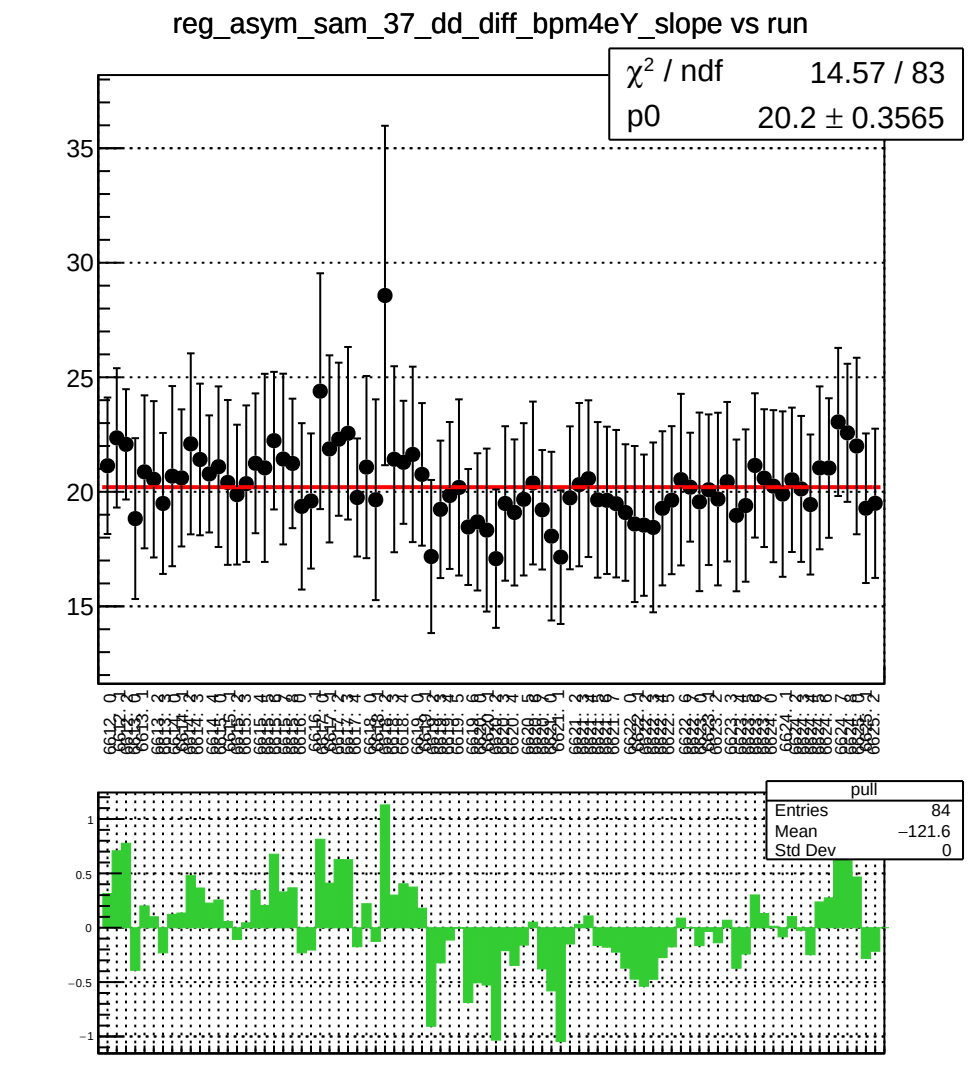

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 2.563 / 83
p0 0.4212 ± 0.03263
pull
Entries 84
Mean −237.7
Std Dev 0
pull1D
Entries 84
Mean −0.004452
Std Dev 0.1746

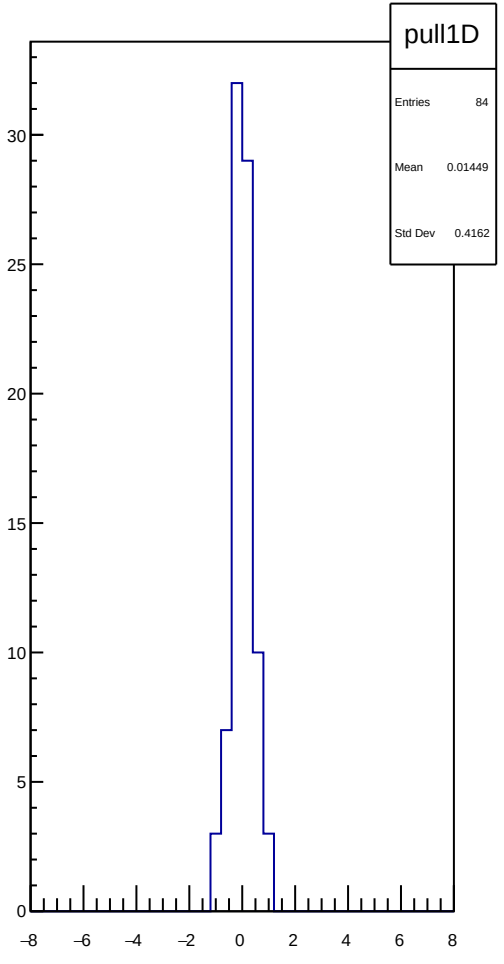

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 60.24 / 83
p0 −27.68 ± 0.4177
pull
Entries 84
Mean −75.68
Std Dev 0
pull1D
Entries 84
Mean −0.03968
Std Dev 0.8459

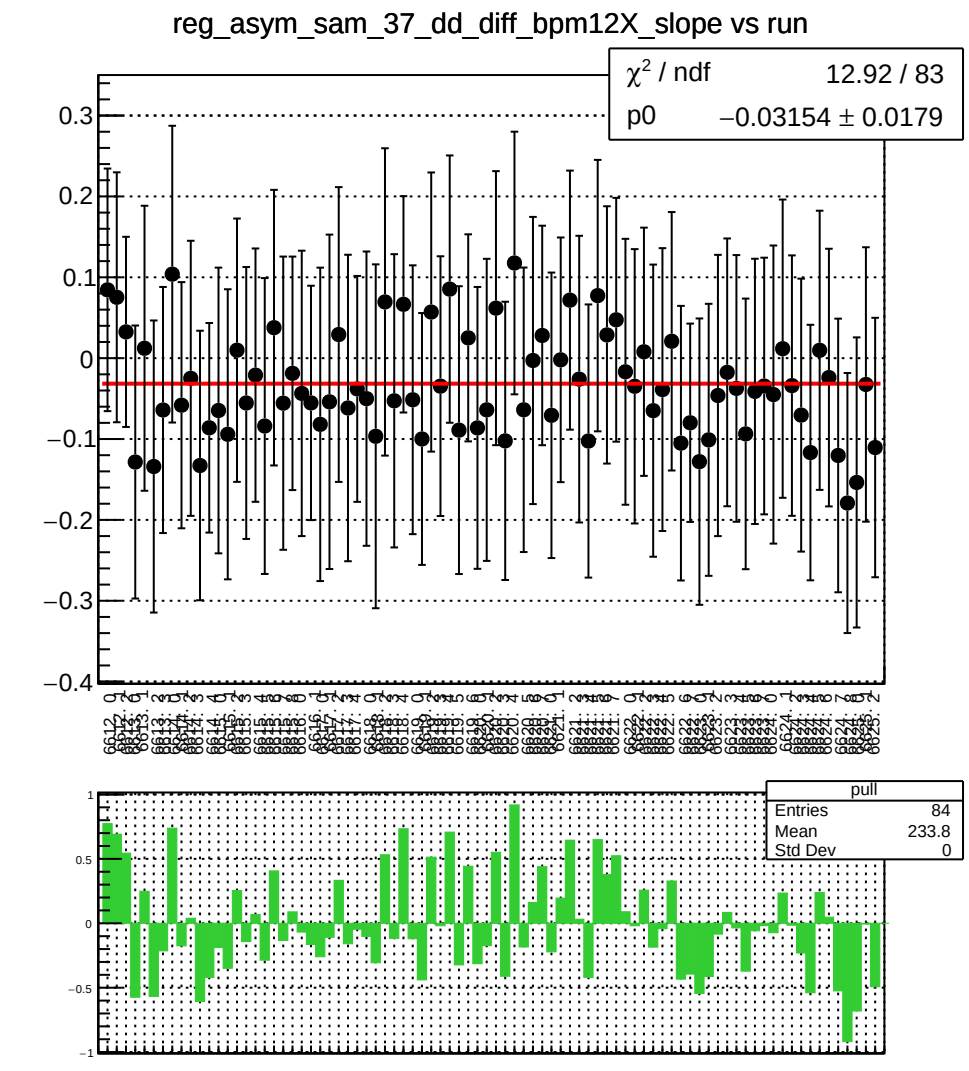

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.94 / 83
p0 −6.63 ± 0.3
pull
Entries 84
Mean −34.1
Std Dev 0
pull1D
Entries 84
Mean −0.02077
Std Dev 0.4212

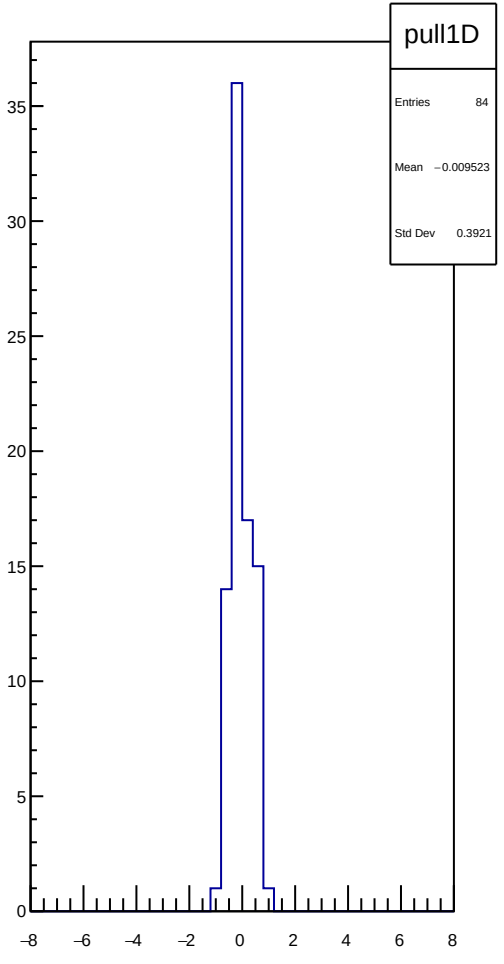

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.18 / 83
p0 −21.2 ± 0.4294
pull
Entries 84
Mean −197.5
Std Dev 0

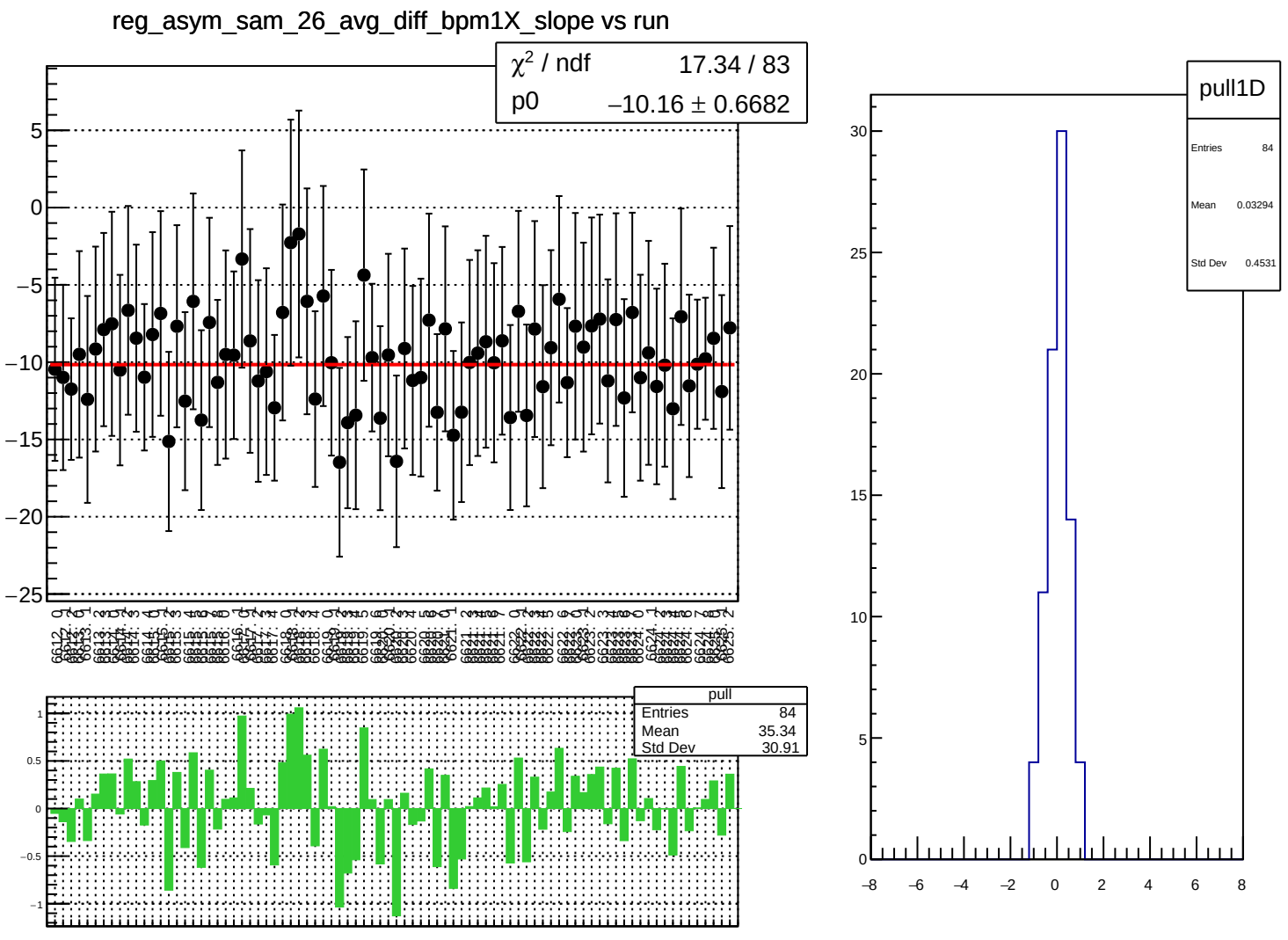

pull1D
Entries 84
Mean 0.01397
Std Dev 0.8671

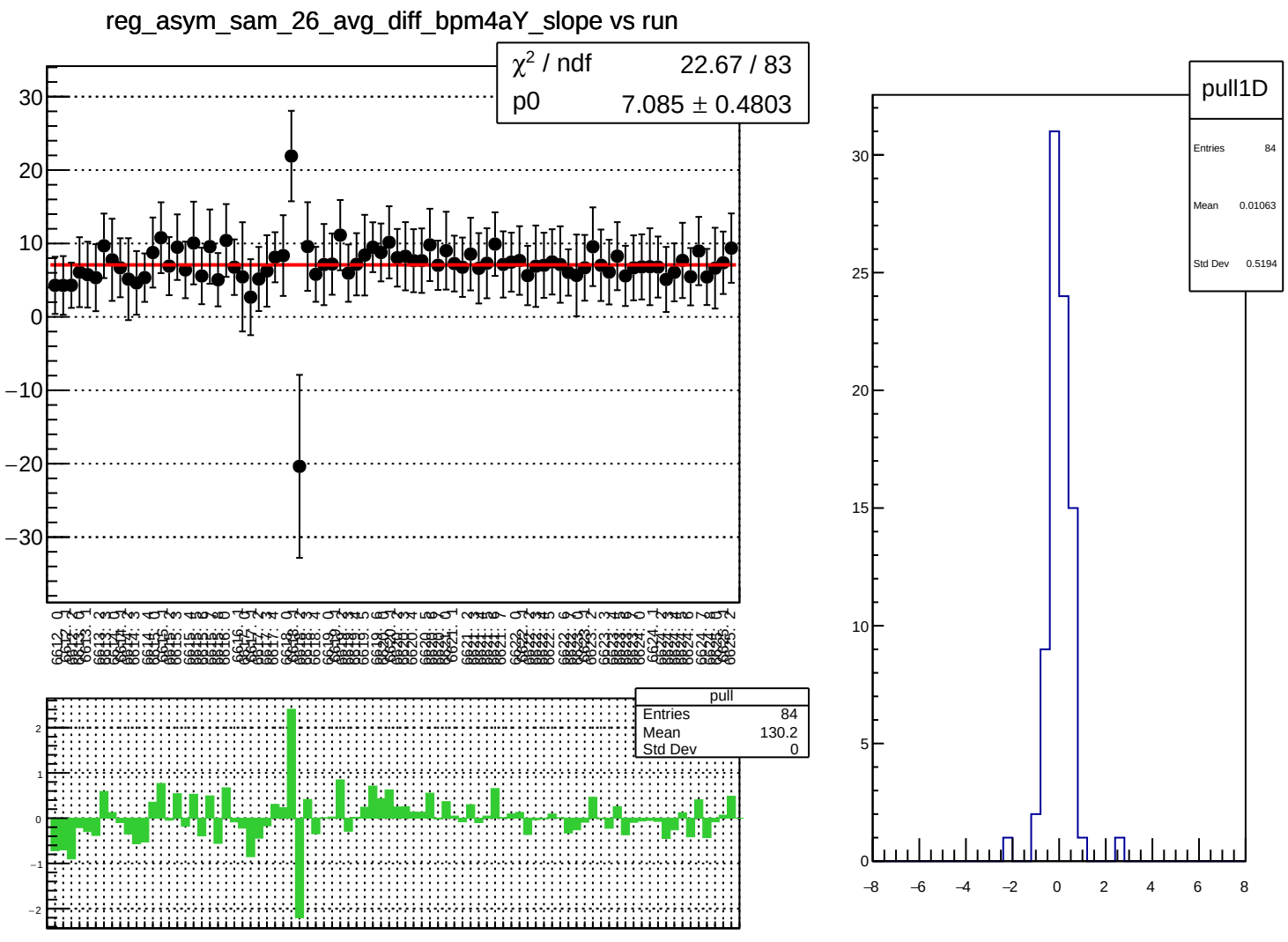

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.57 / 83
p0 20.2 ± 0.3565
pull
Entries 84
Mean −121.6
Std Dev 0

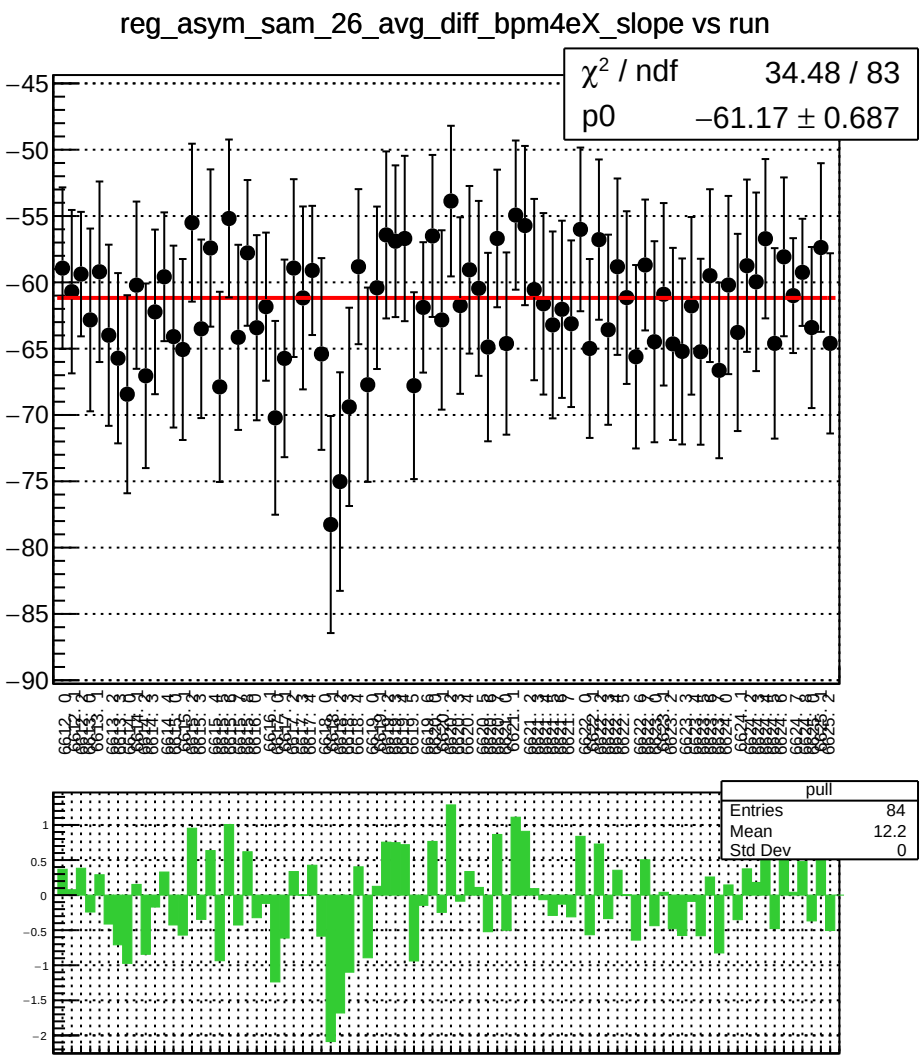

pull1D
Entries 84
Mean 0.01449
Std Dev 0.4162

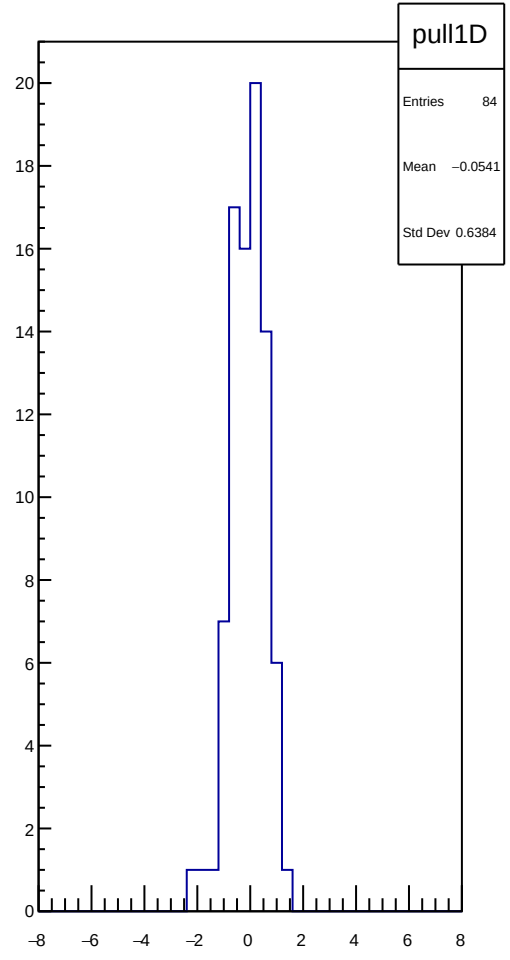

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 12.92 / 83
p0 −0.03154 ± 0.0179
pull
Entries 84
Mean 233.8
Std Dev 0

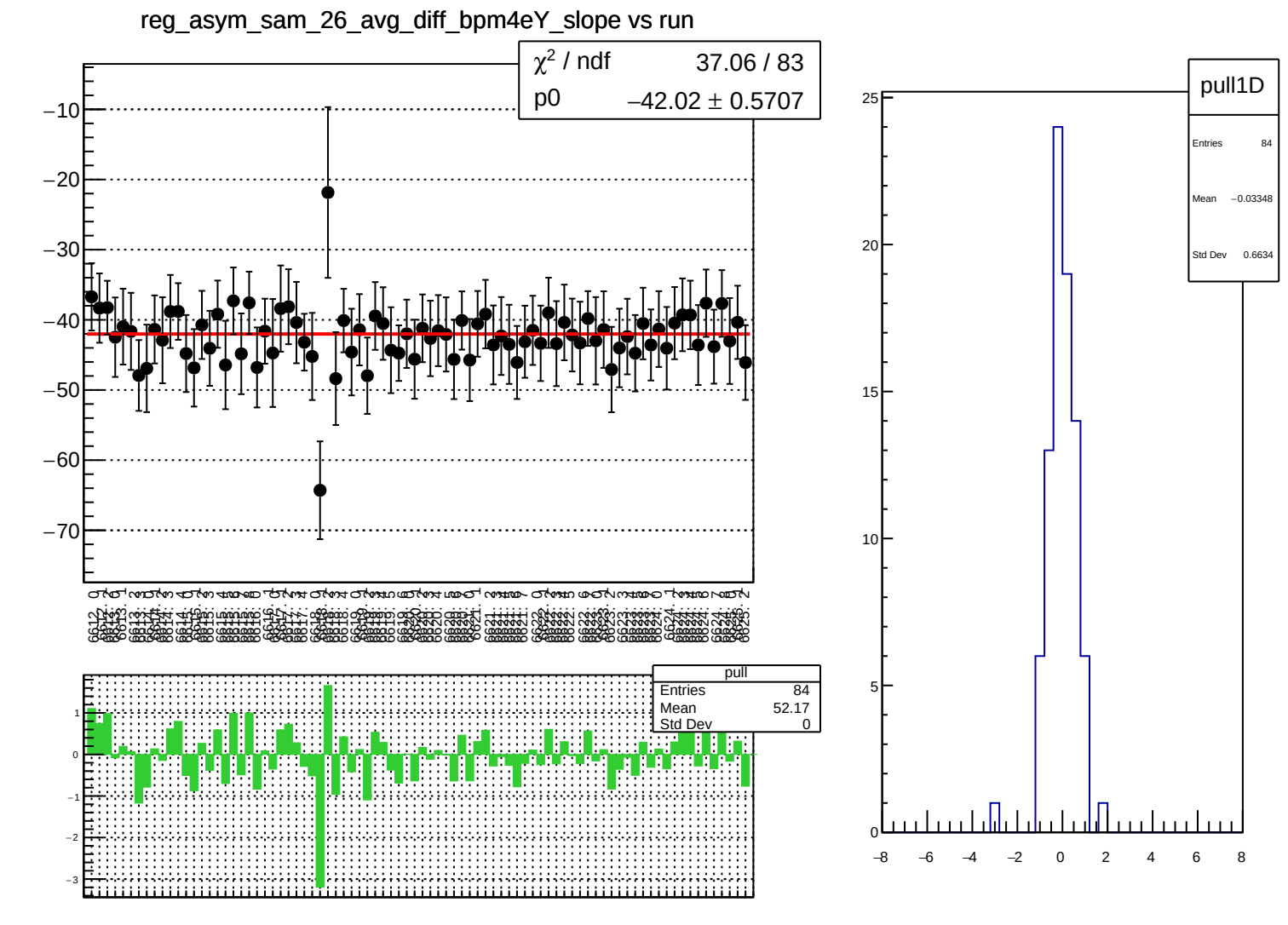

pull1D
Entries 84
Mean −0.009523
Std Dev 0.3921

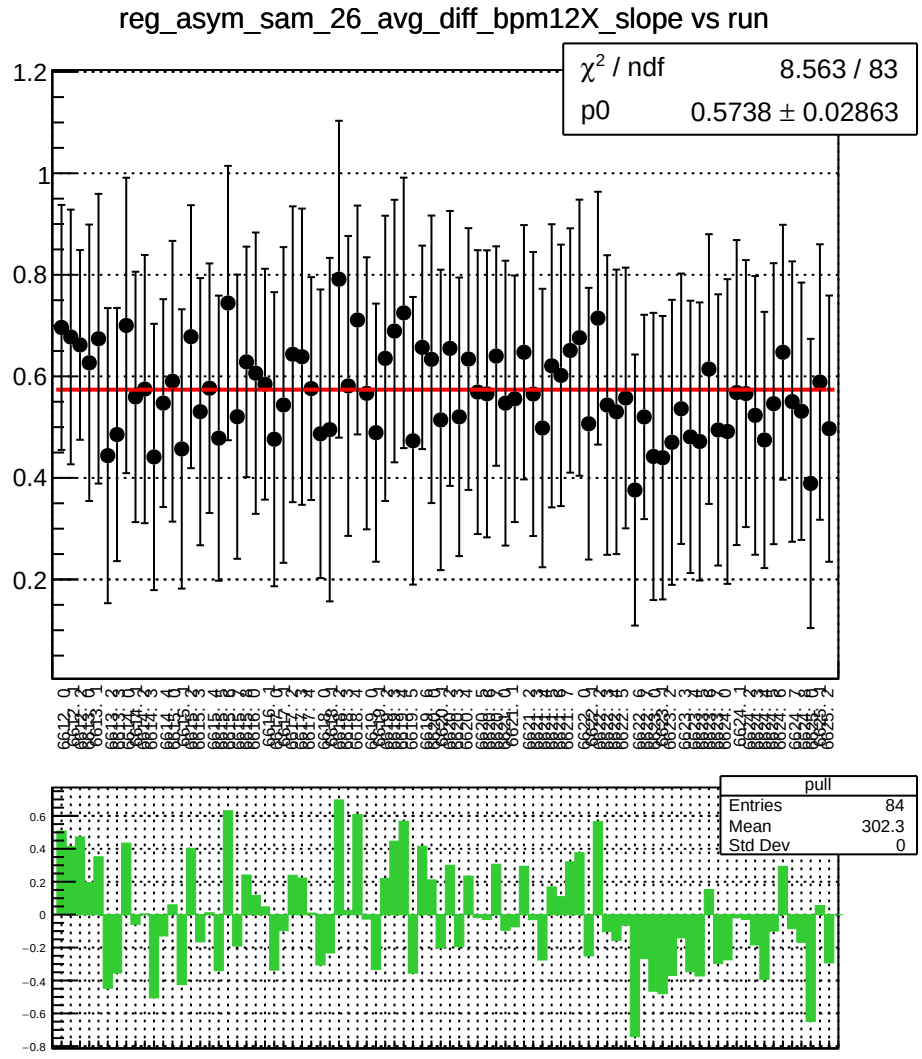

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 17.34 / 83
p0 −10.16 ± 0.6682
pull
Entries 84
Mean 35.34
Std Dev 30.91
pull1D
Entries 84
Mean 0.03294
Std Dev 0.4531

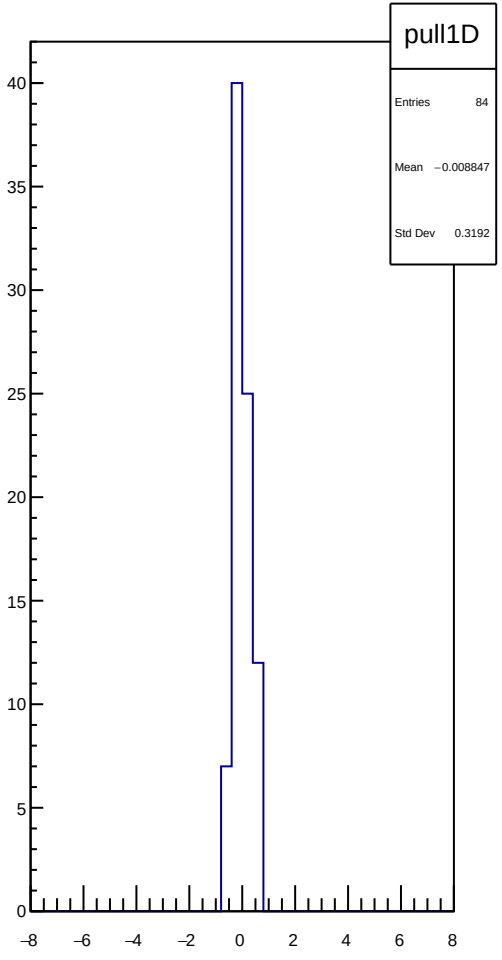

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.67 / 83
p0 7.085 ± 0.4803
pull
Entries 84
Mean 130.2
Std Dev 0
pull1D
Entries 84
Mean 0.01063
Std Dev 0.5194

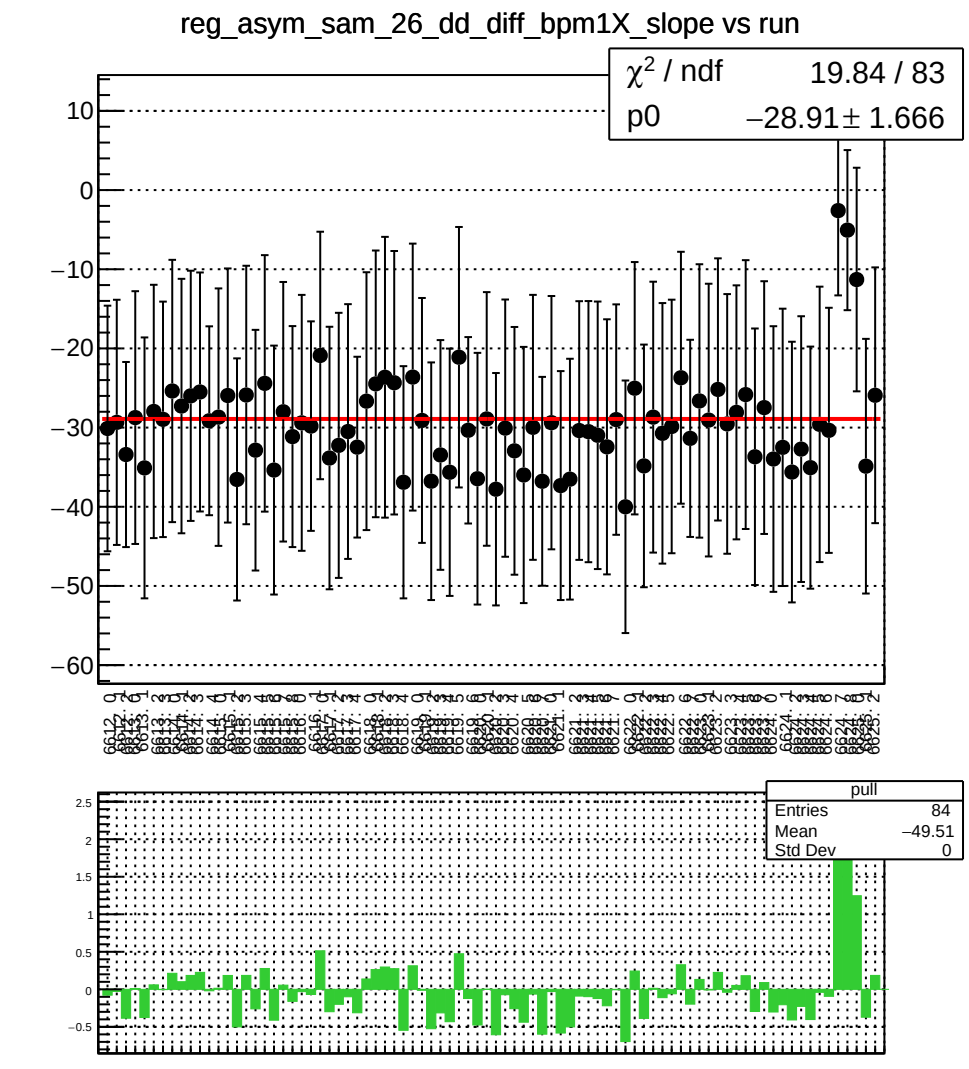

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.48 / 83
p0 −61.17 ± 0.687
pull
Entries 84
Mean 12.2
Std Dev 0

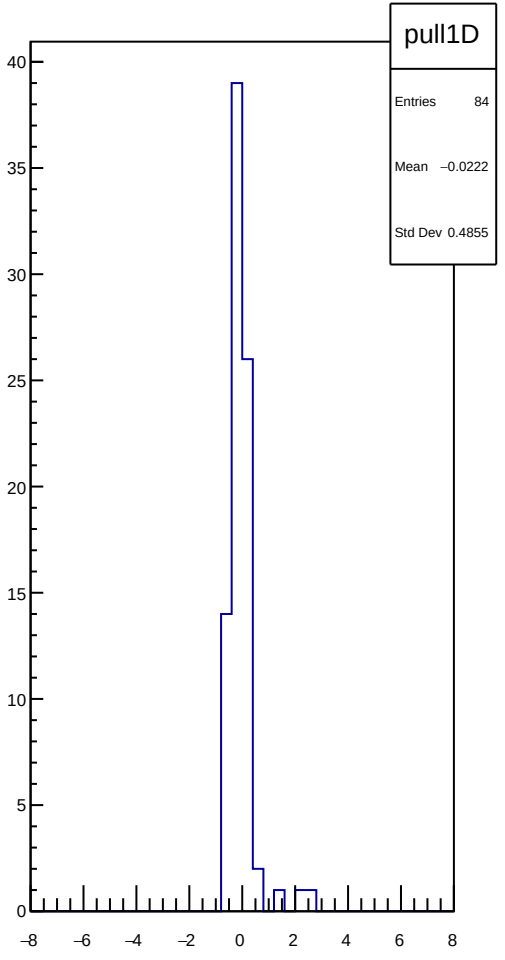

pull1D
Entries 84
Mean −0.0541
Std Dev 0.6384

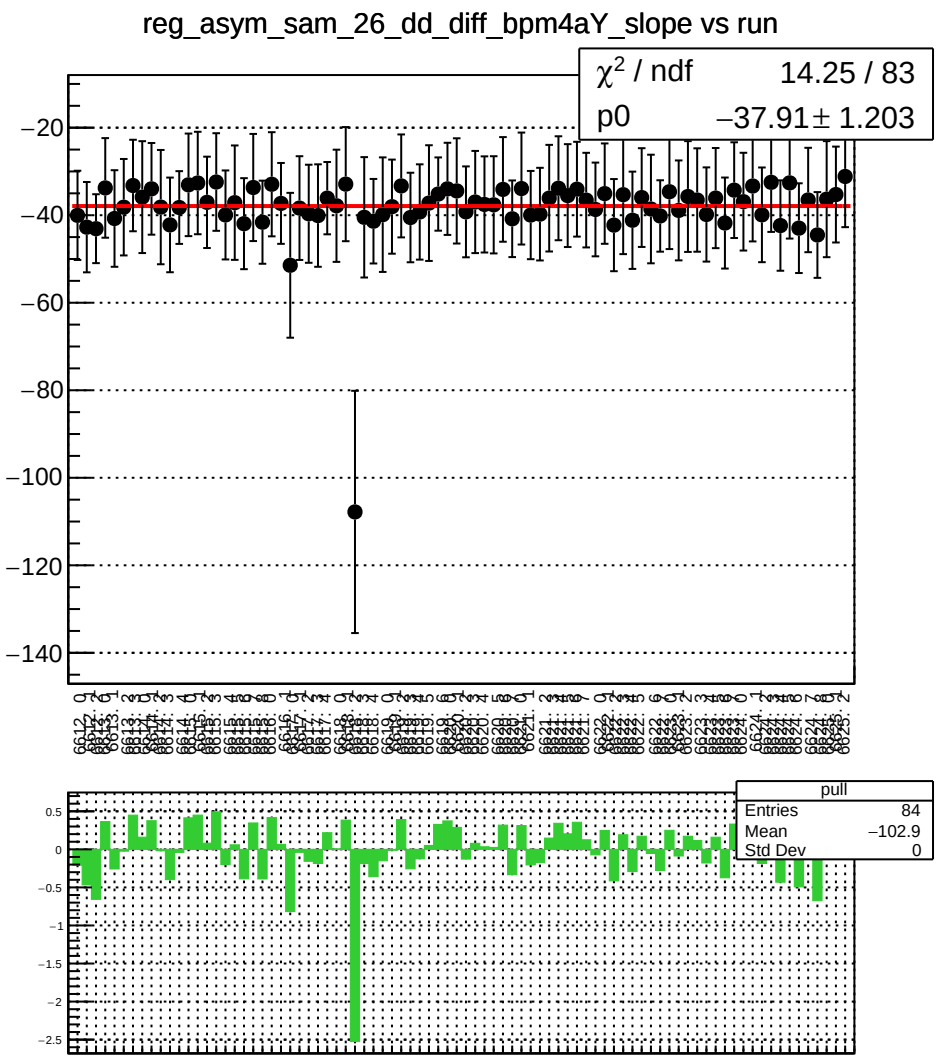

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.06 / 83
p0 −42.02 ± 0.5707
pull
Entries 84
Mean 52.17
Std Dev 0
pull1D
Entries 84
Mean −0.03348
Std Dev 0.6634

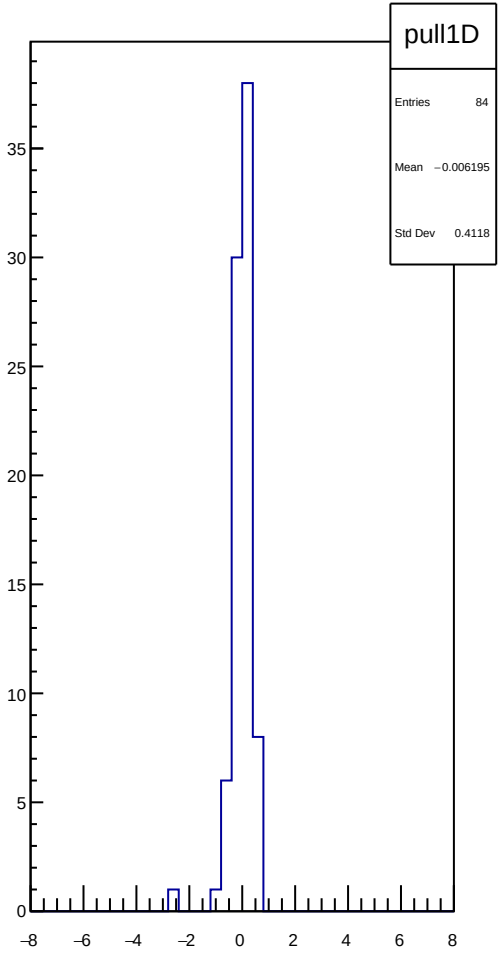

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 8.563 / 83
p0 0.5738 ± 0.02863
pull
Entries 84
Mean 302.3
Std Dev 0

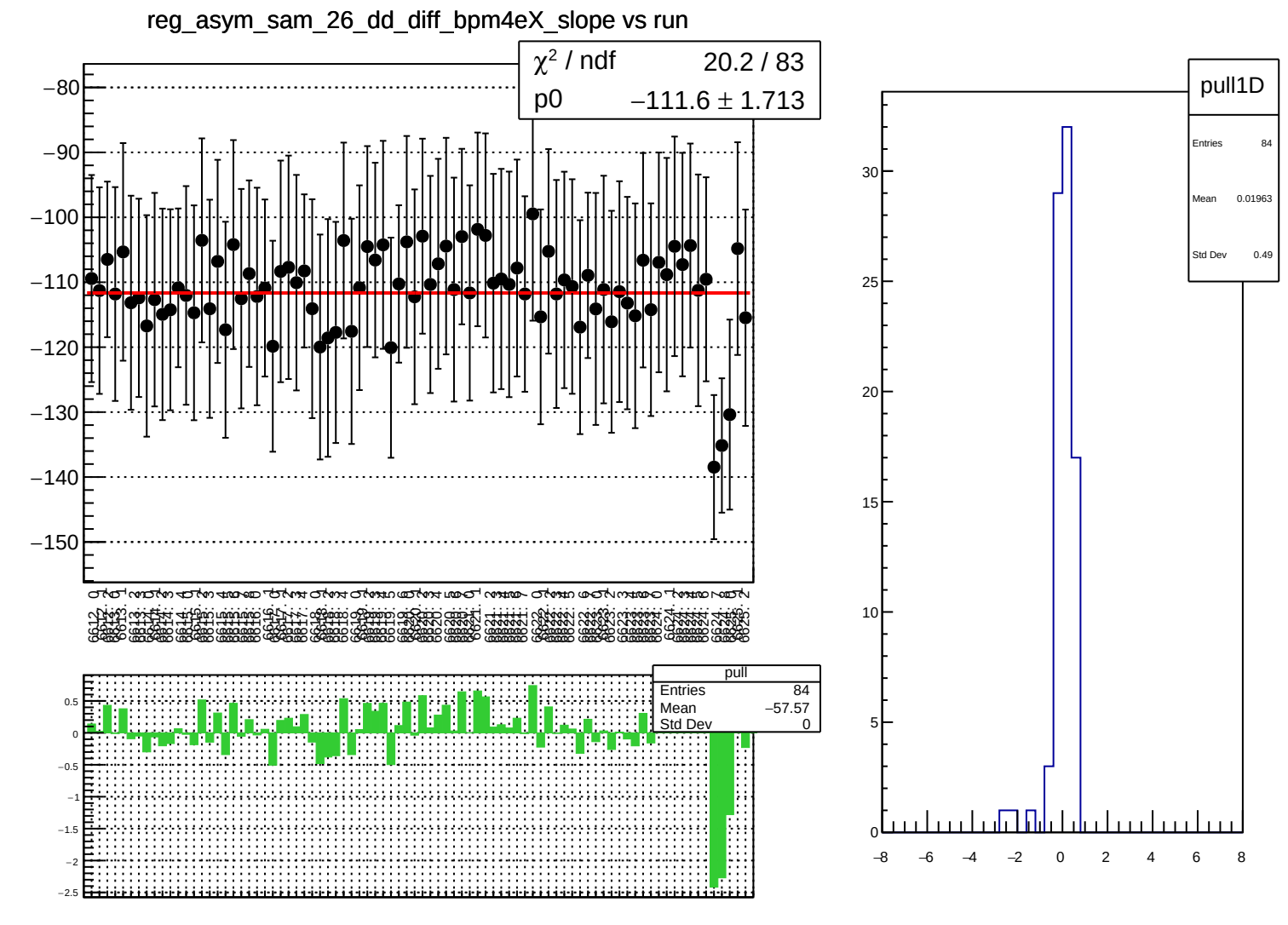

pull1D
Entries 84
Mean −0.008847
Std Dev 0.3192

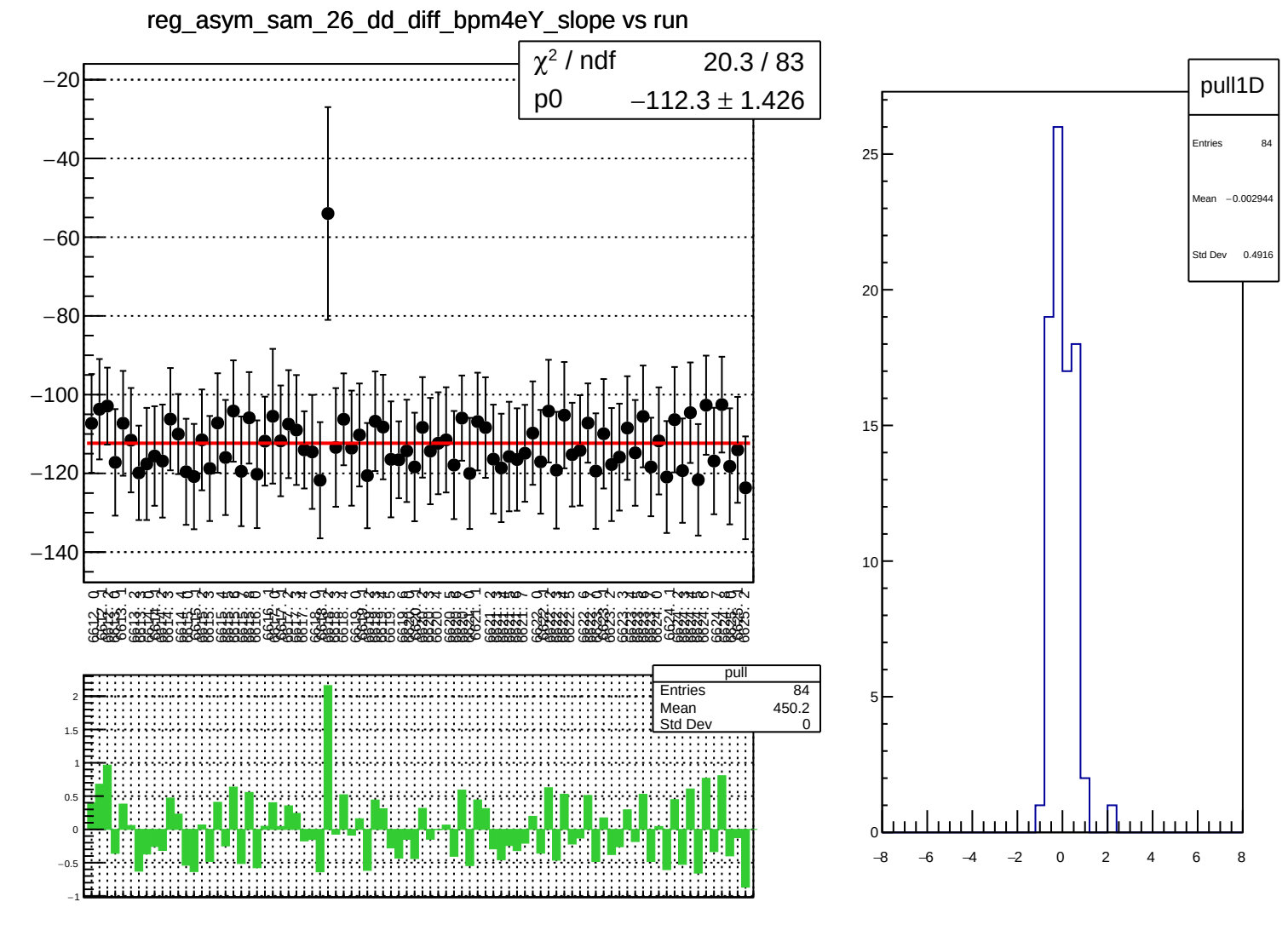

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 19.84 / 83
p0 −28.91 ± 1.666
pull
Entries 84
Mean −49.51
Std Dev 0

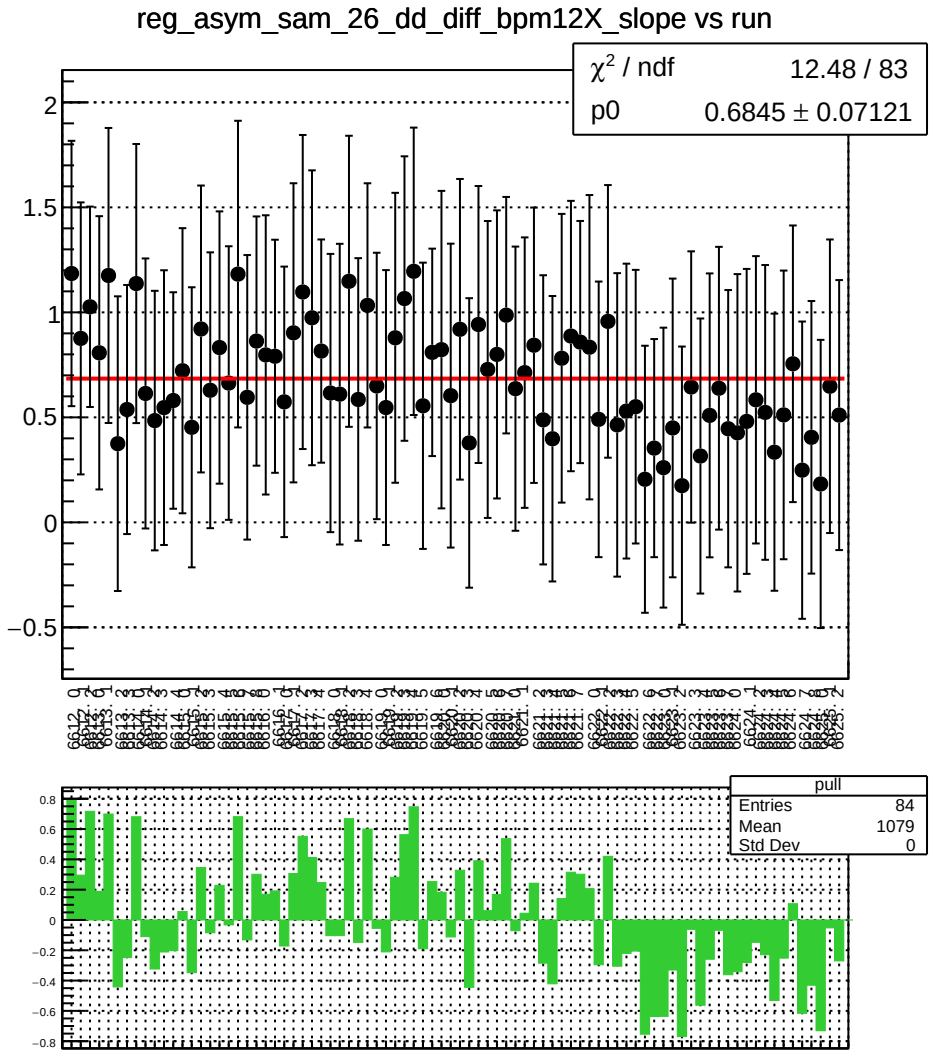

pull1D
Entries 84
Mean −0.0222
Std Dev 0.4855

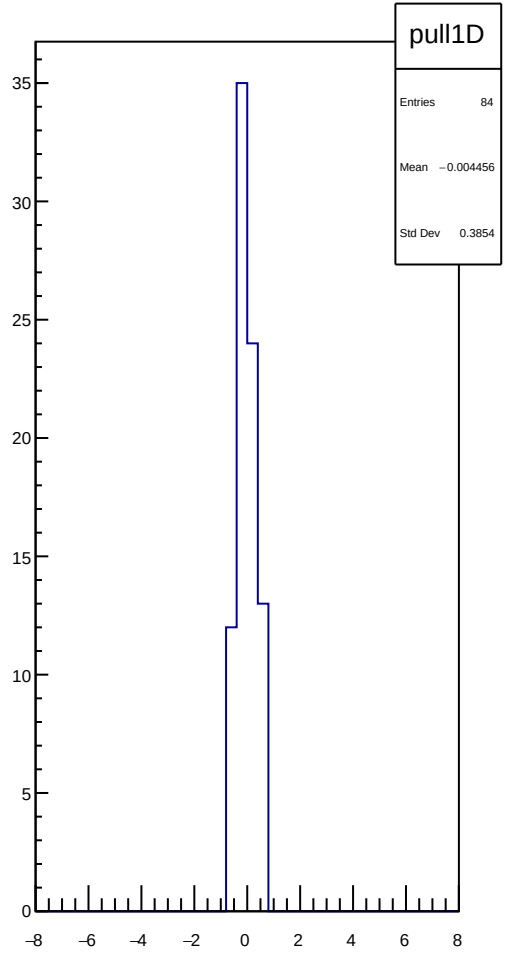

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.25 / 83
p0 −37.91± 1.203
pull
Entries 84
Mean −102.9
Std Dev 0

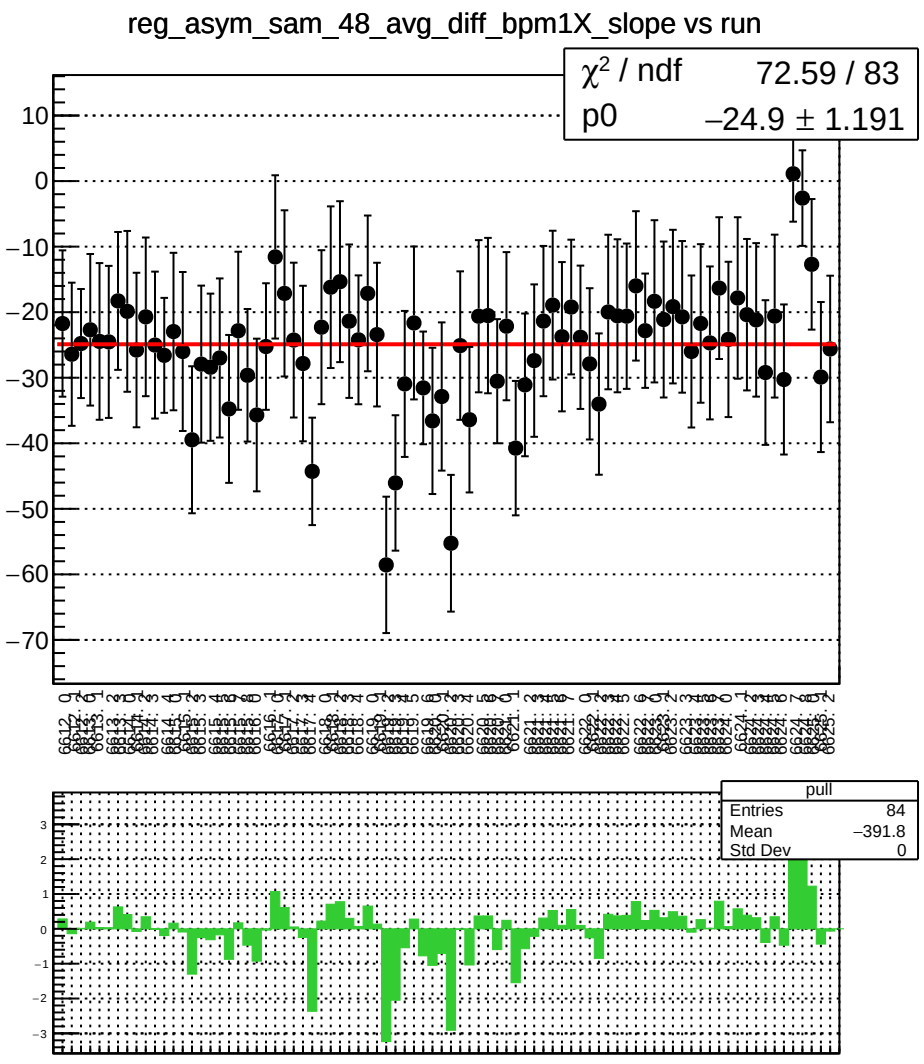

pull1D
Entries 84
Mean −0.006195
Std Dev 0.4118

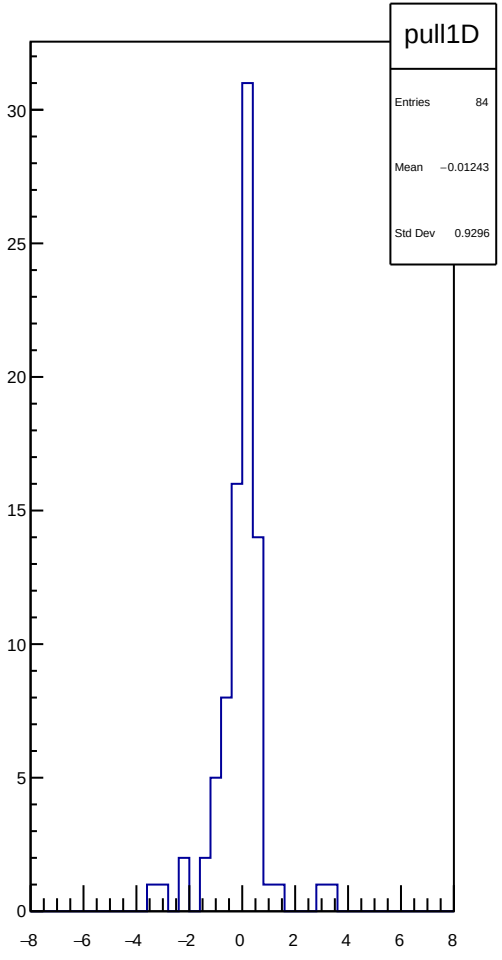

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.2 / 83
p0 −111.6 ± 1.713
pull
Entries 84
Mean −57.57
Std Dev 0
pull1D
Entries 84
Mean 0.01963
Std Dev 0.49

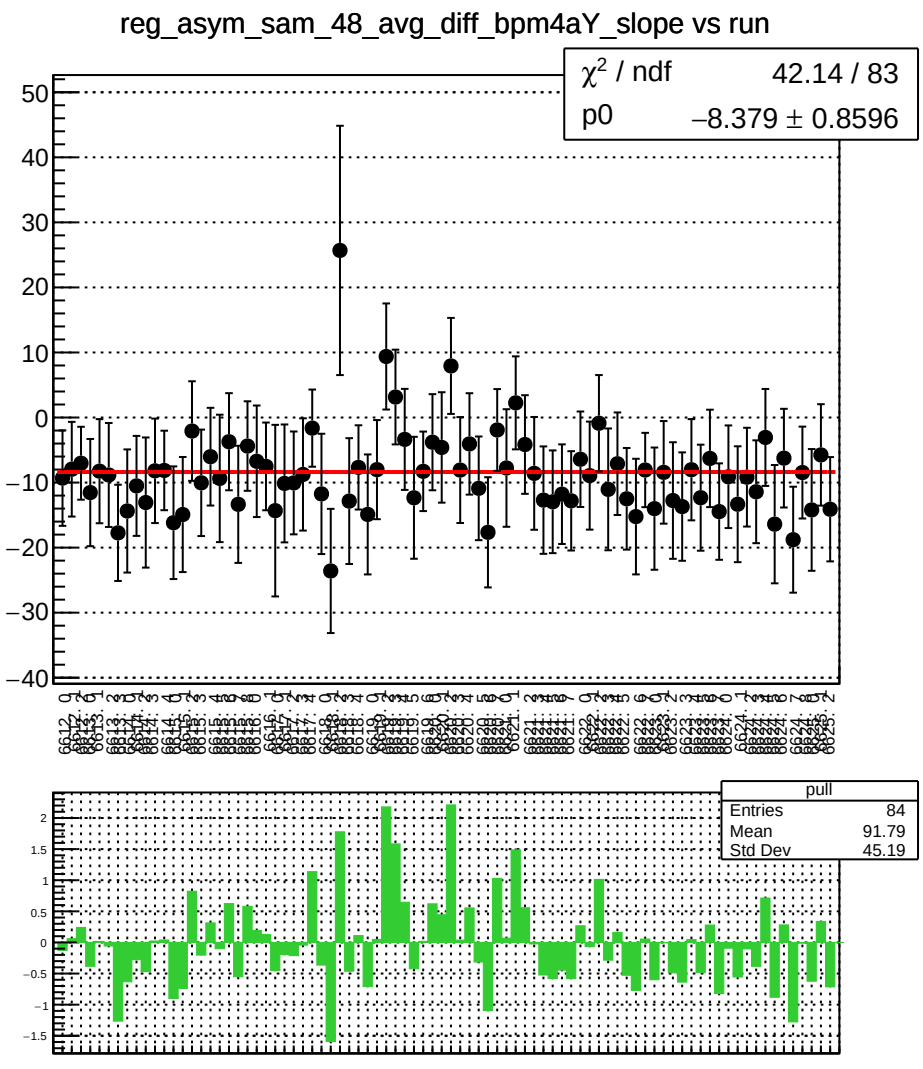

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.3 / 83
p0 −112.3 ± 1.426
pull
Entries 84
Mean 450.2
Std Dev 0
pull1D
Entries 84
Mean −0.002944
Std Dev 0.4916

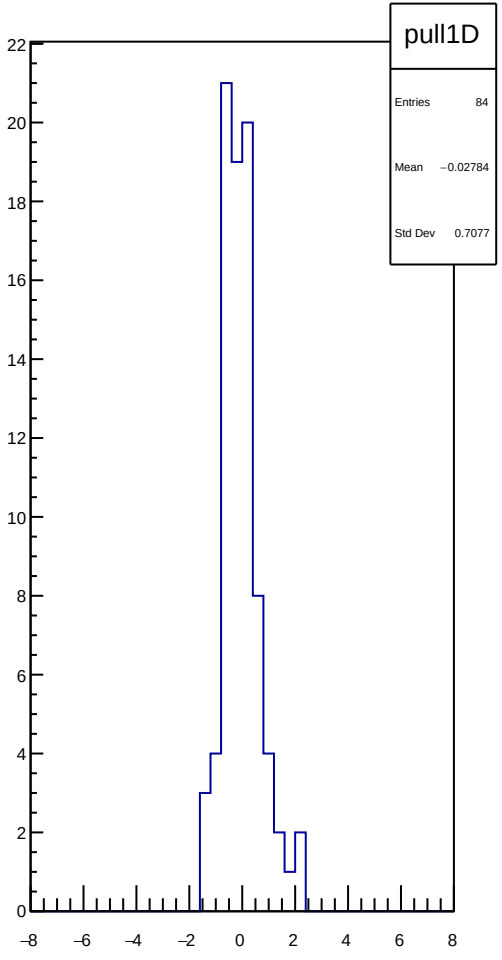

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 12.48 / 83
p0 0.6845 ± 0.07121
pull
Entries 84
Mean 1079
Std Dev 0

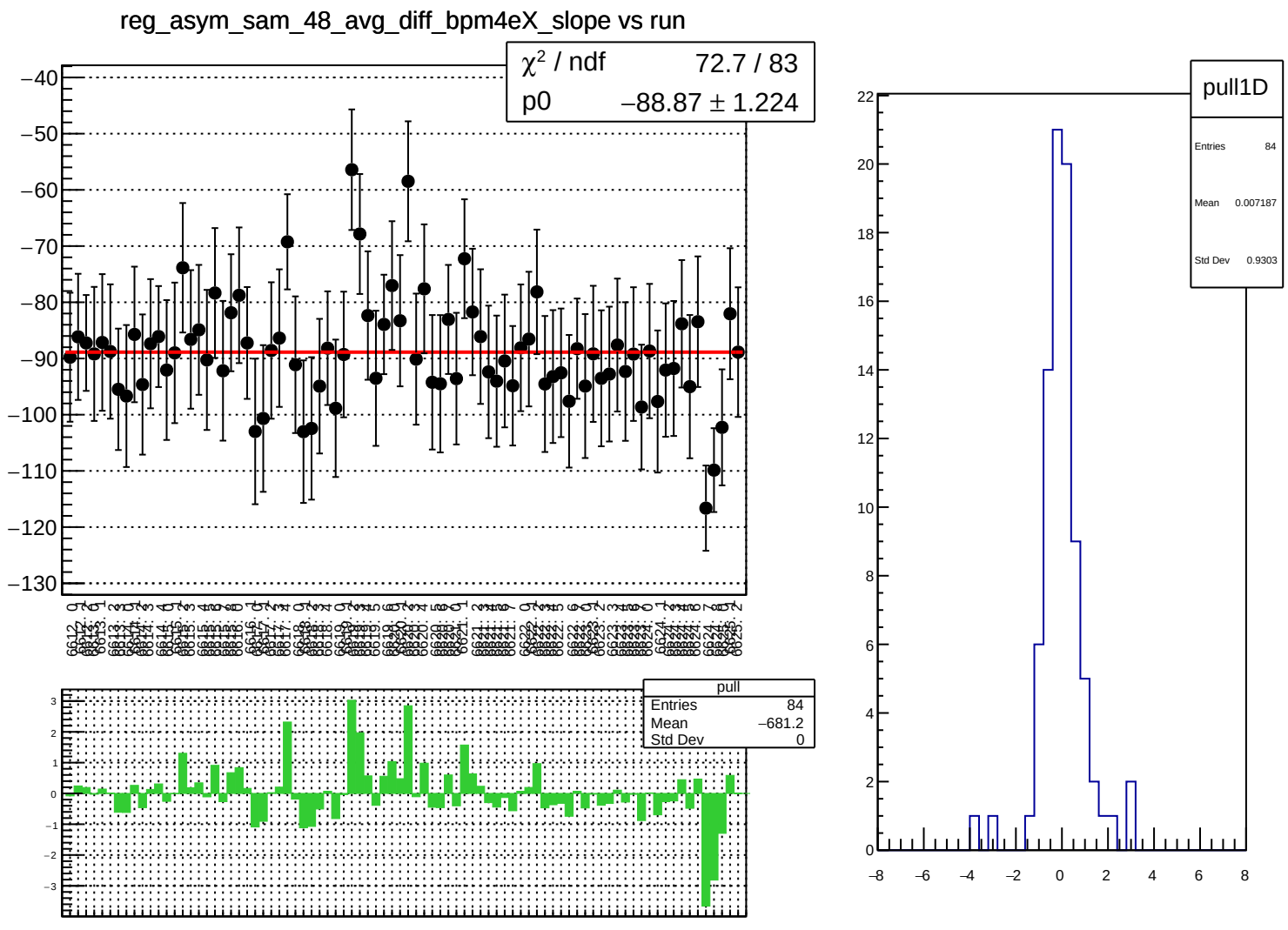

pull1D
Entries 84
Mean −0.004456
Std Dev 0.3854

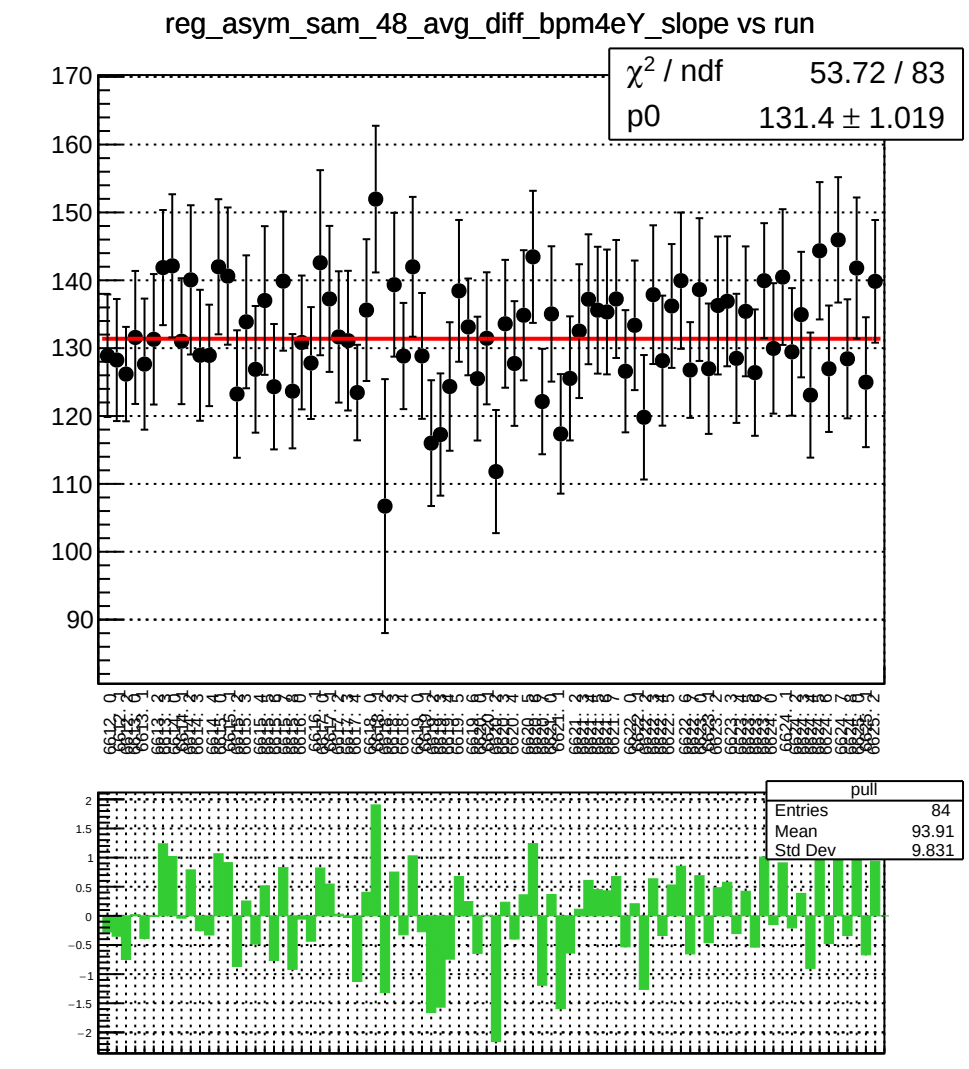

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 72.59 / 83
p0 −24.9 ± 1.191
pull
Entries 84
Mean −391.8
Std Dev 0

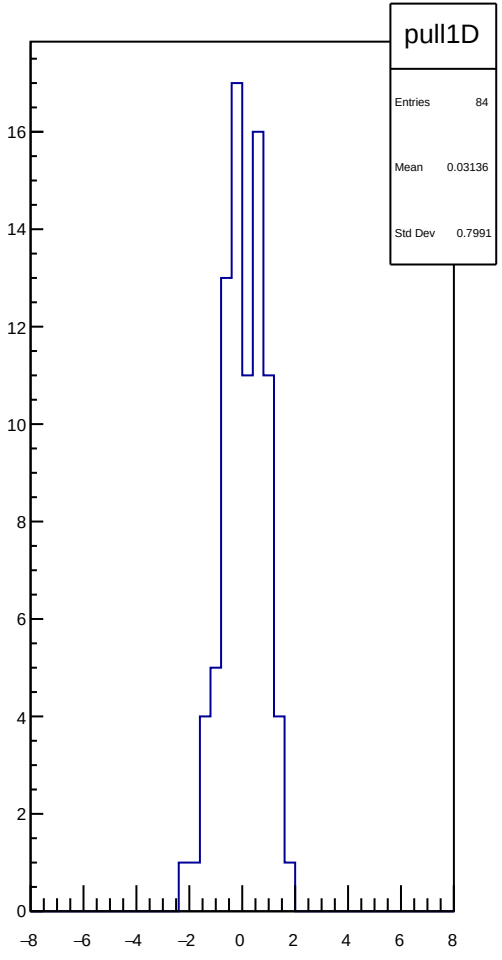

pull1D
Entries 84
Mean −0.01243
Std Dev 0.9296

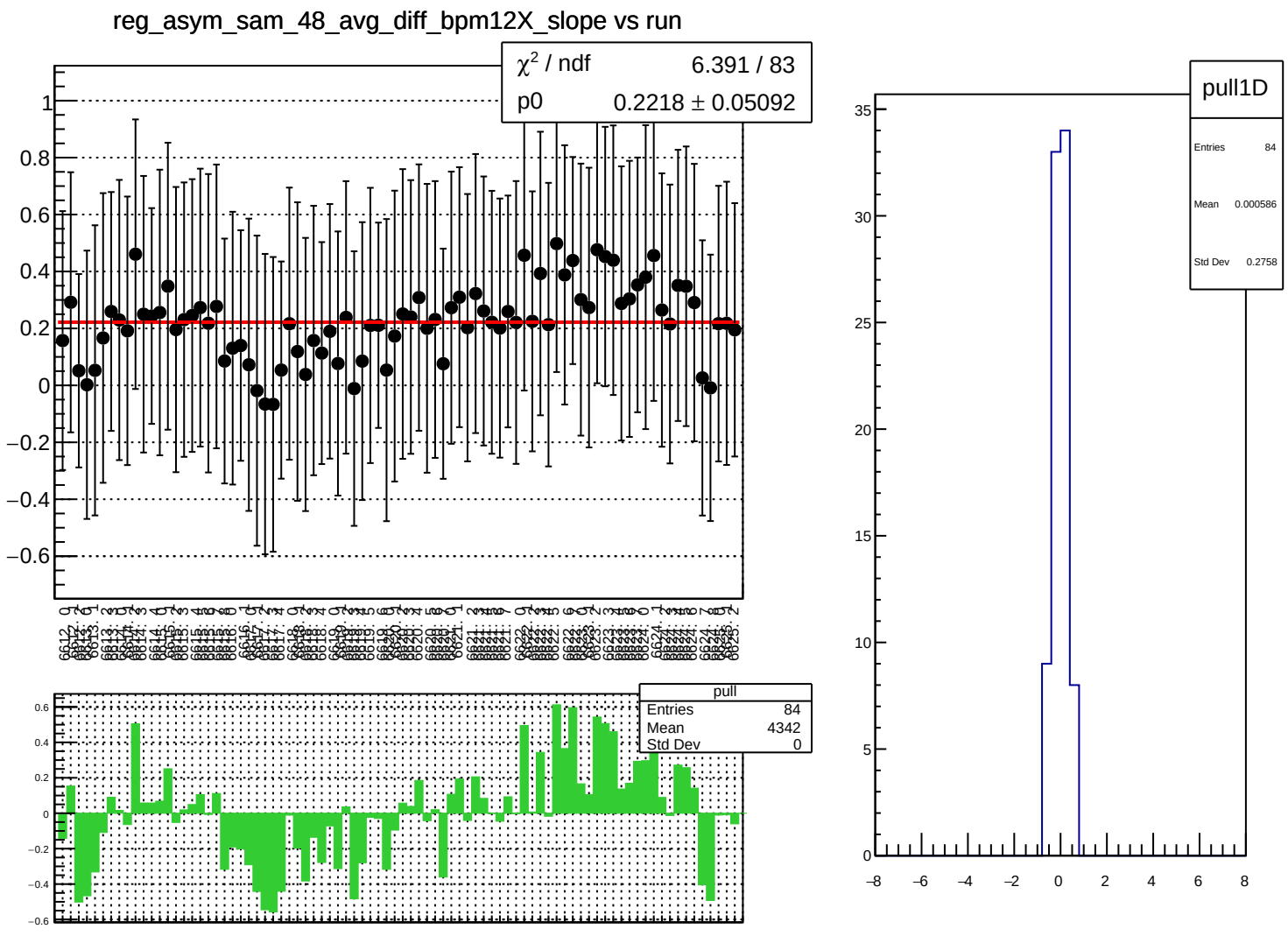

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 42.14 / 83
p0 −8.379 ± 0.8596
pull
Entries 84
Mean 91.79
Std Dev 45.19

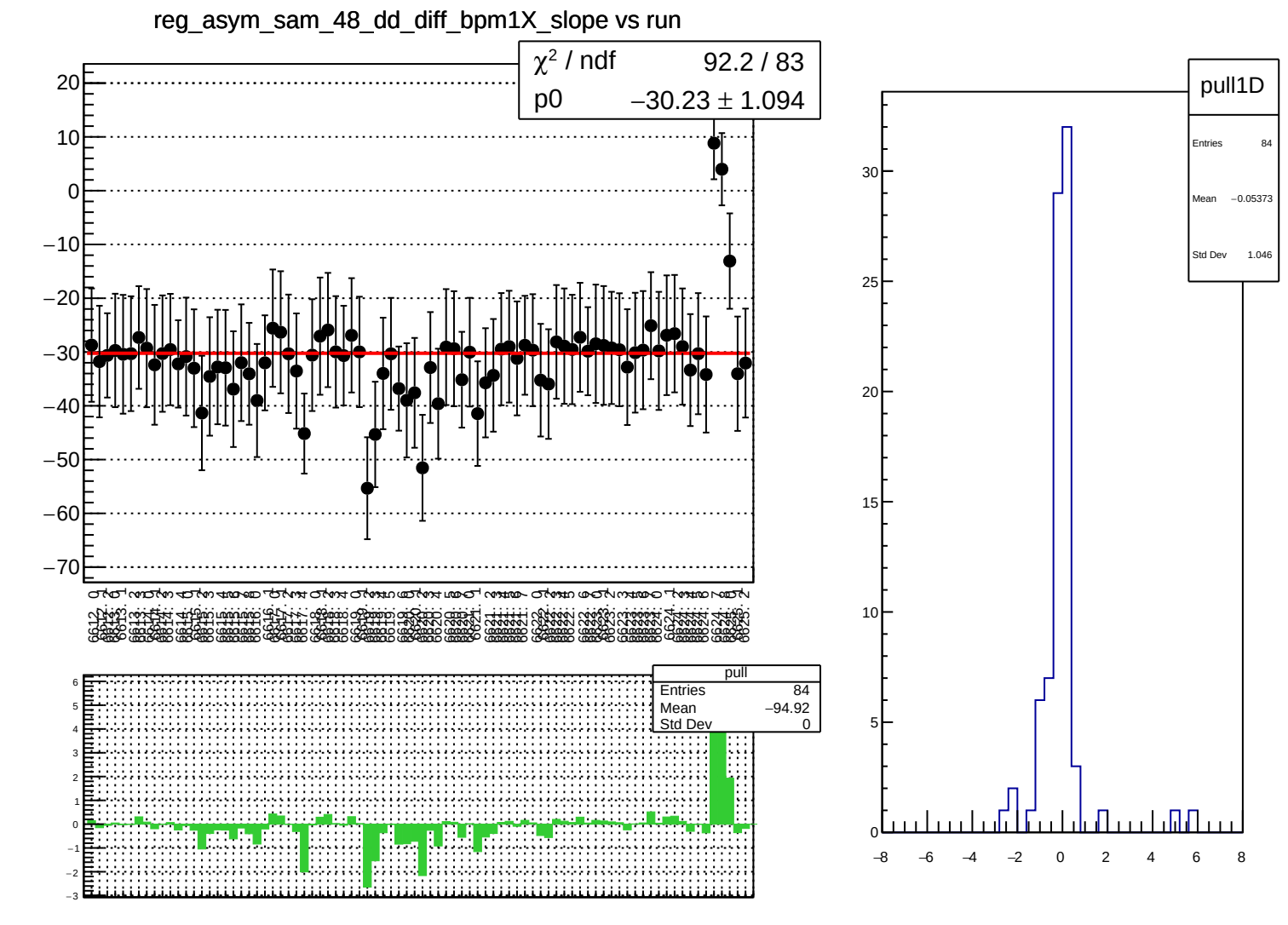

pull1D
Entries 84
Mean −0.02784
Std Dev 0.7077

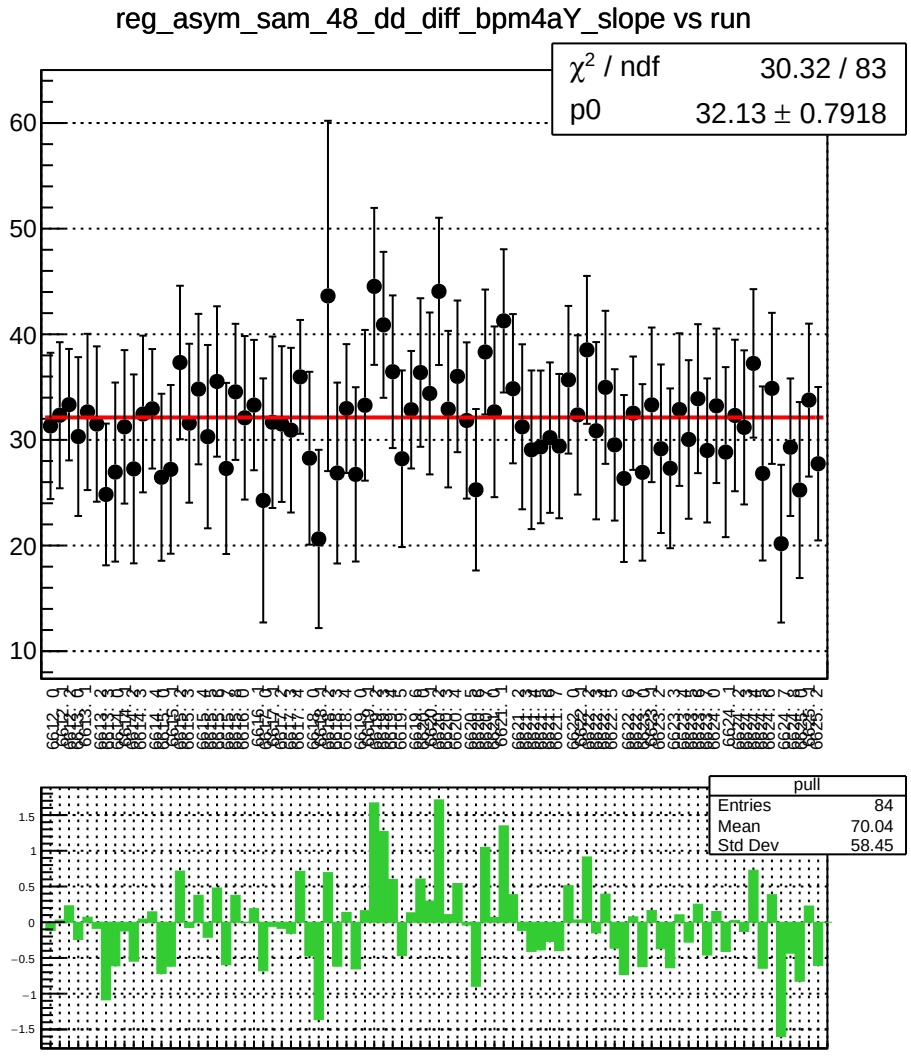

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.7 / 83
p0 −88.87 ± 1.224
pull
Entries 84
Mean −681.2
Std Dev 0
pull1D
Entries 84
Mean 0.007187
Std Dev 0.9303

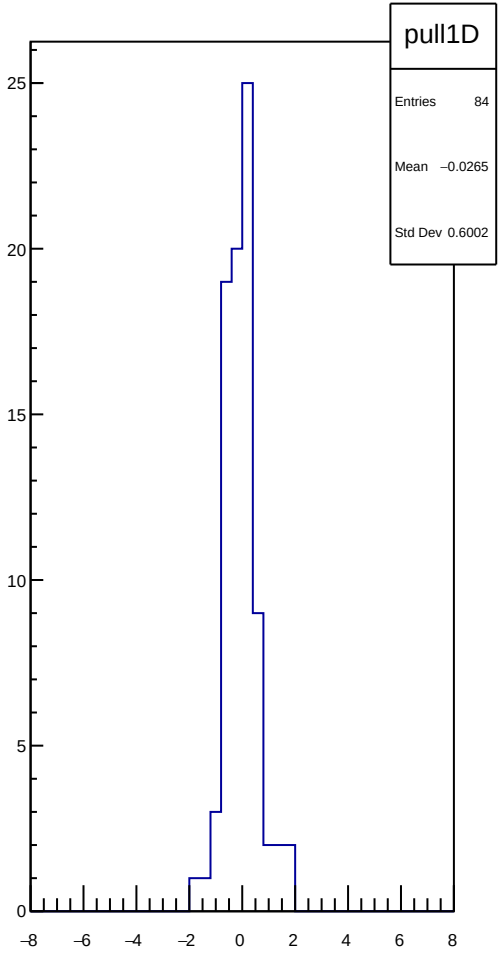

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 53.72 / 83
p0 131.4 ± 1.019
pull
Entries 84
Mean 93.91
Std Dev 9.831

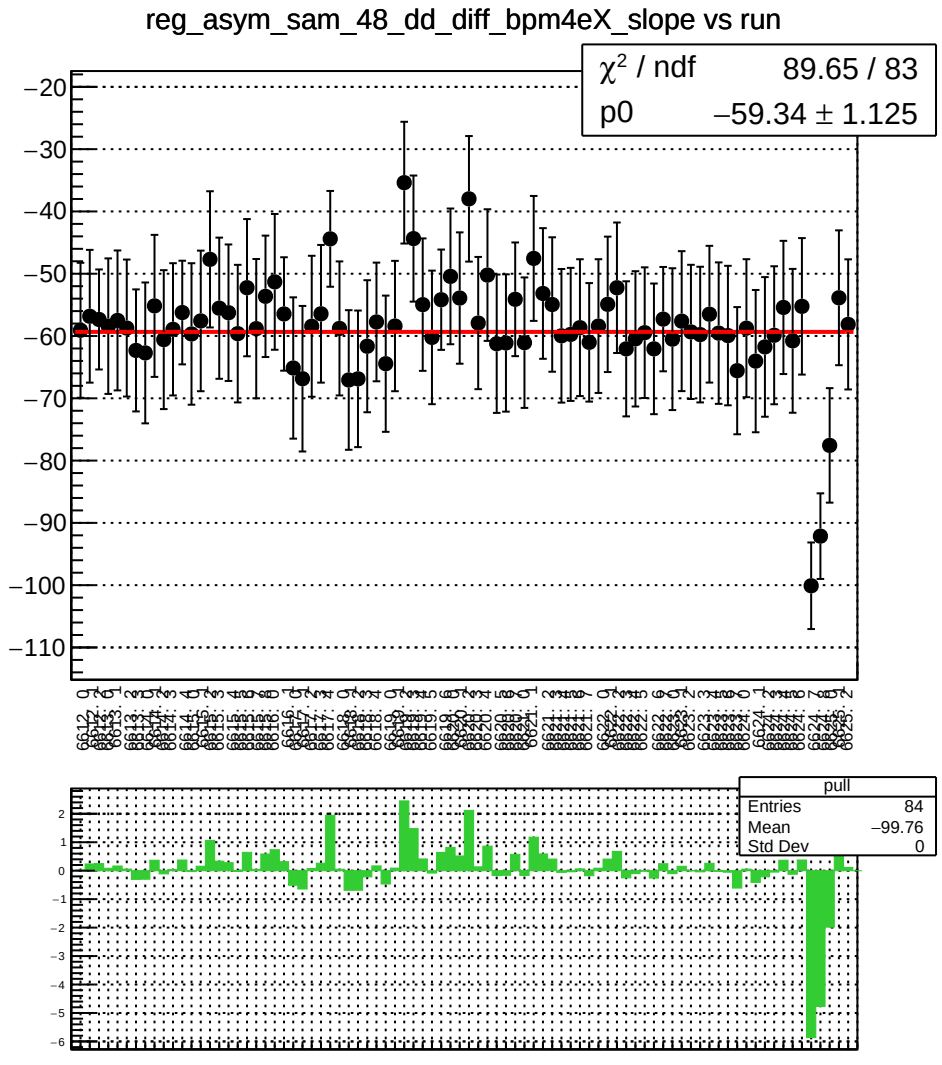

pull1D
Entries 84
Mean 0.03136
Std Dev 0.7991

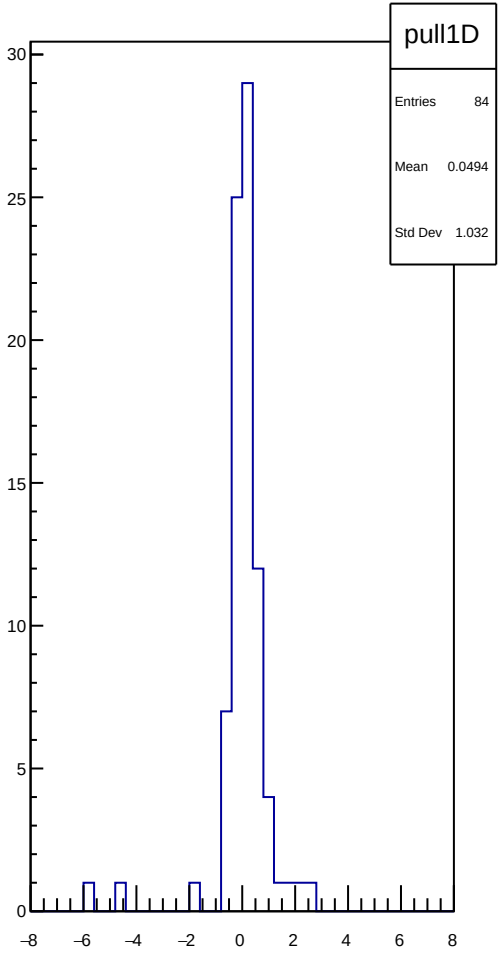

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 6.391 / 83
p0 0.2218 ± 0.05092
pull
Entries 84
Mean 4342
Std Dev 0
pull1D
Entries 84
Mean 0.000586
Std Dev 0.2758

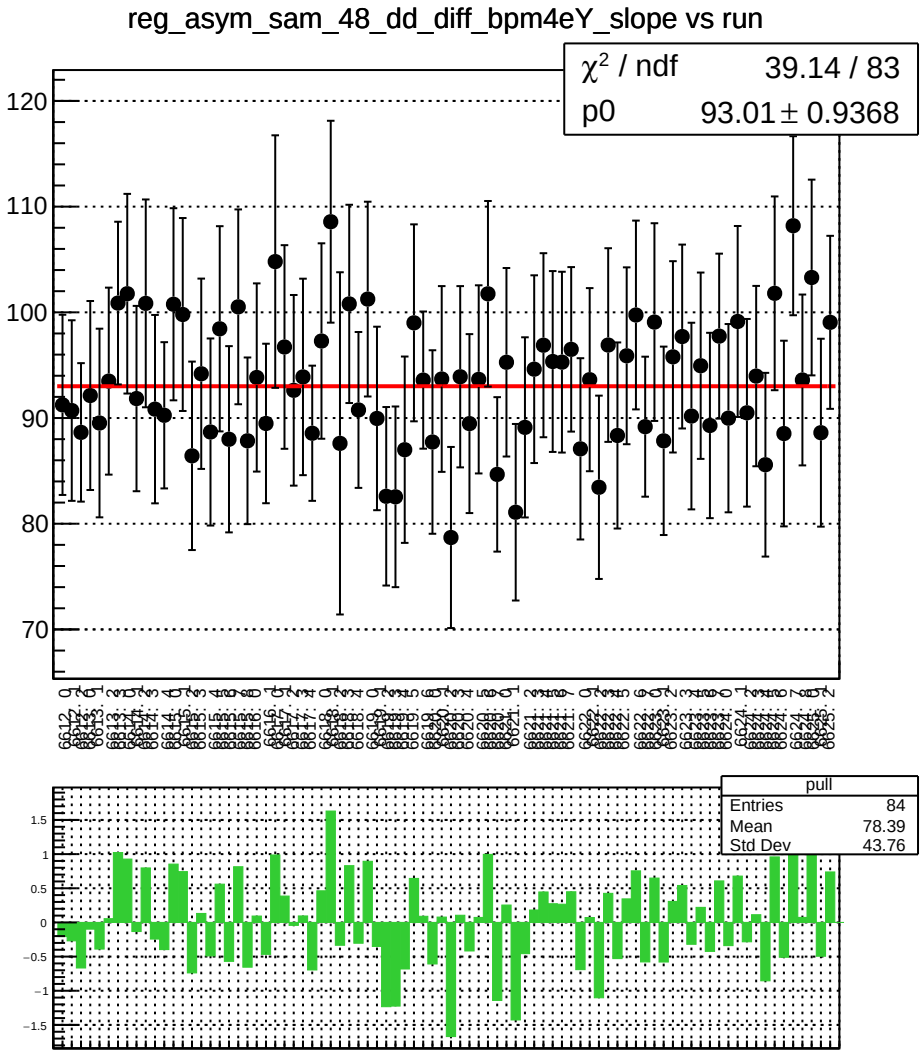

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 92.2 / 83
p0 −30.23 ± 1.094
pull
Entries 84
Mean −94.92
Std Dev 0
pull1D
Entries 84
Mean −0.05373
Std Dev 1.046

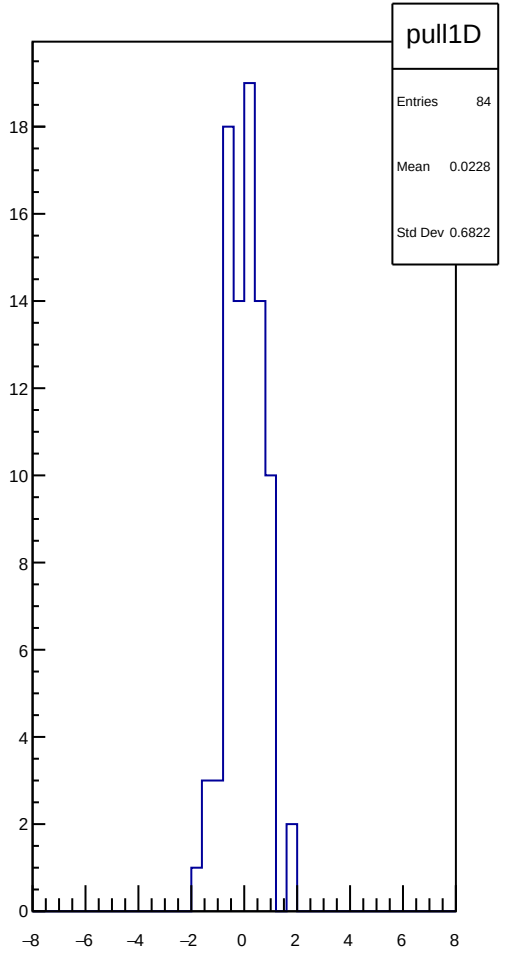

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.32 / 83
p0 32.13 ± 0.7918
pull
Entries 84
Mean 70.04
Std Dev 58.45

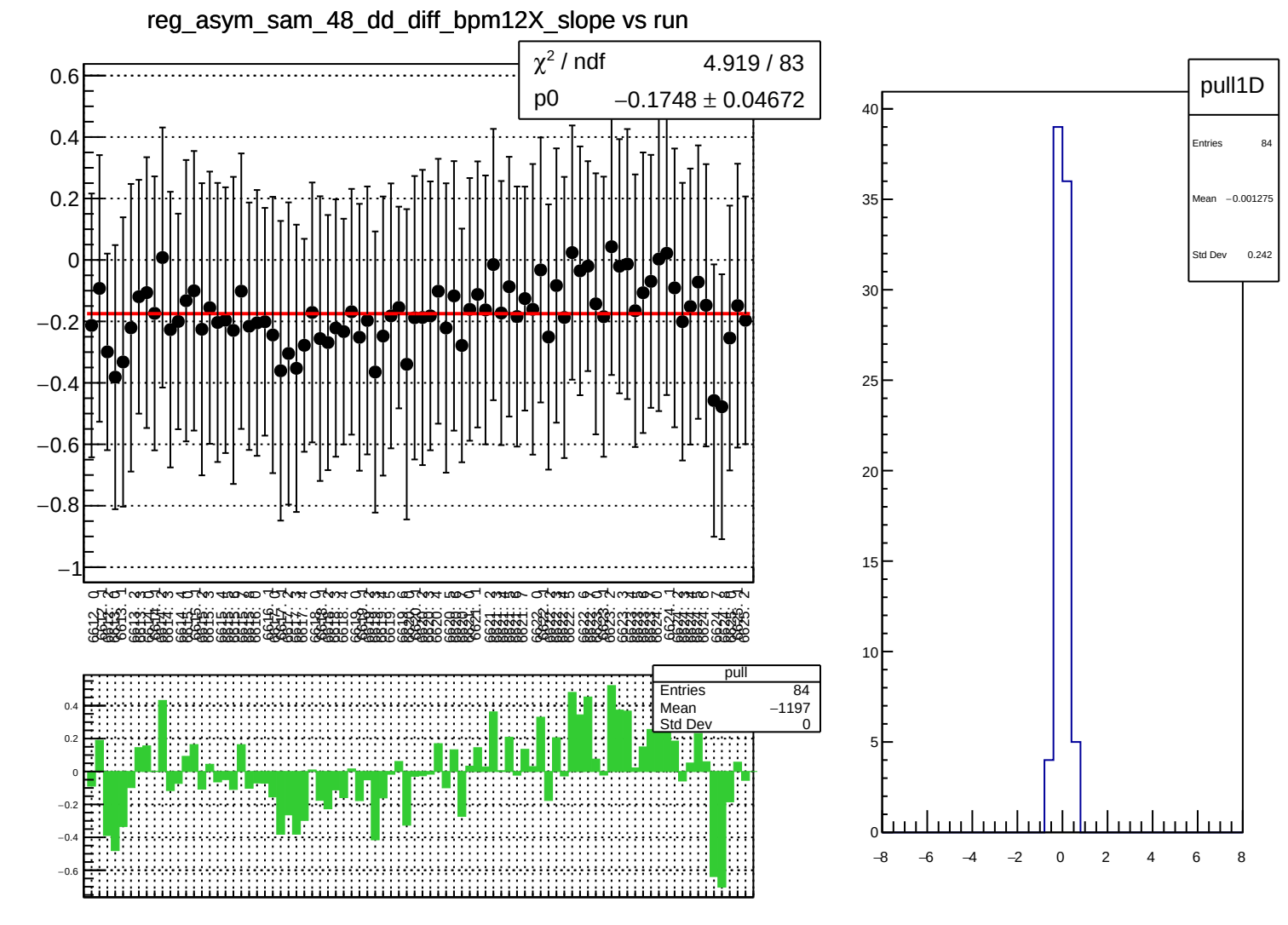

pull1D
Entries 84
Mean −0.0265
Std Dev 0.6002

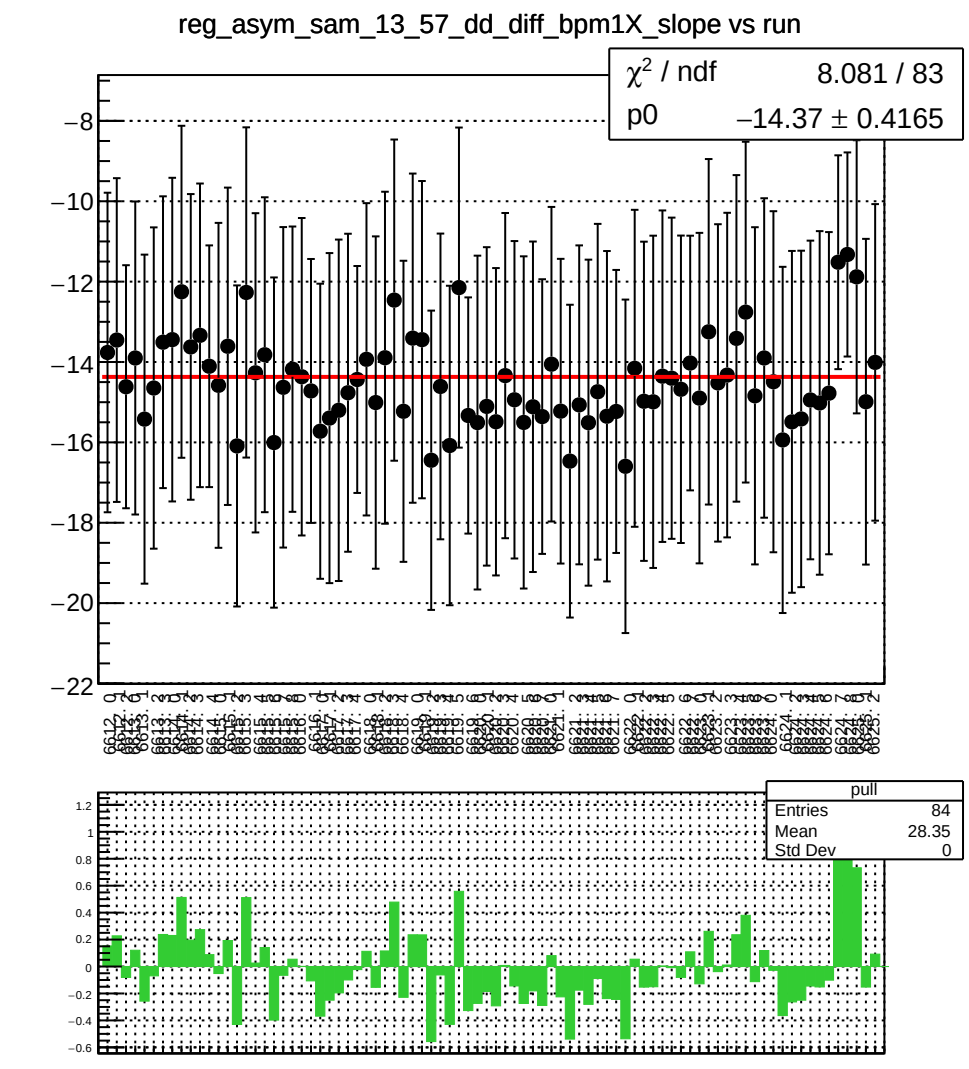

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 89.65 / 83
p0 −59.34 ± 1.125
pull
Entries 84
Mean −99.76
Std Dev 0

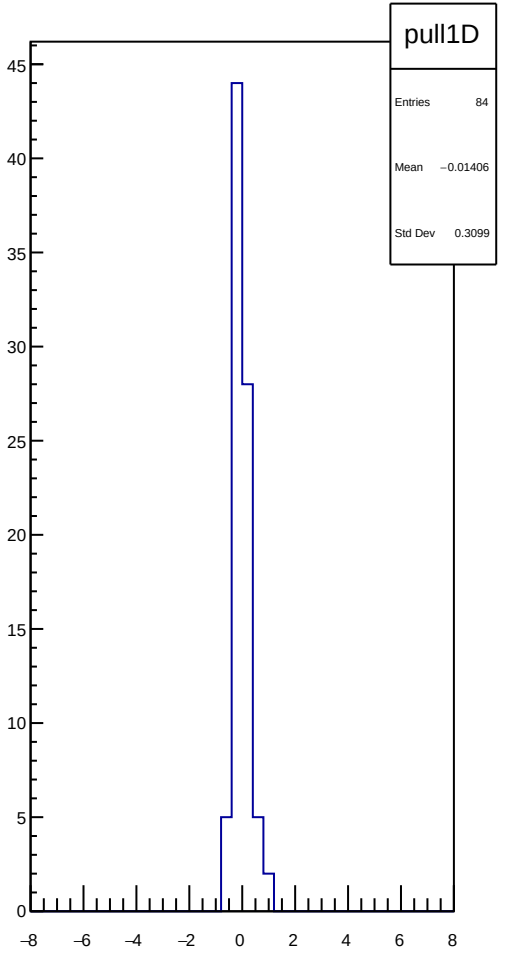

pull1D
Entries 84
Mean 0.0494
Std Dev 1.032

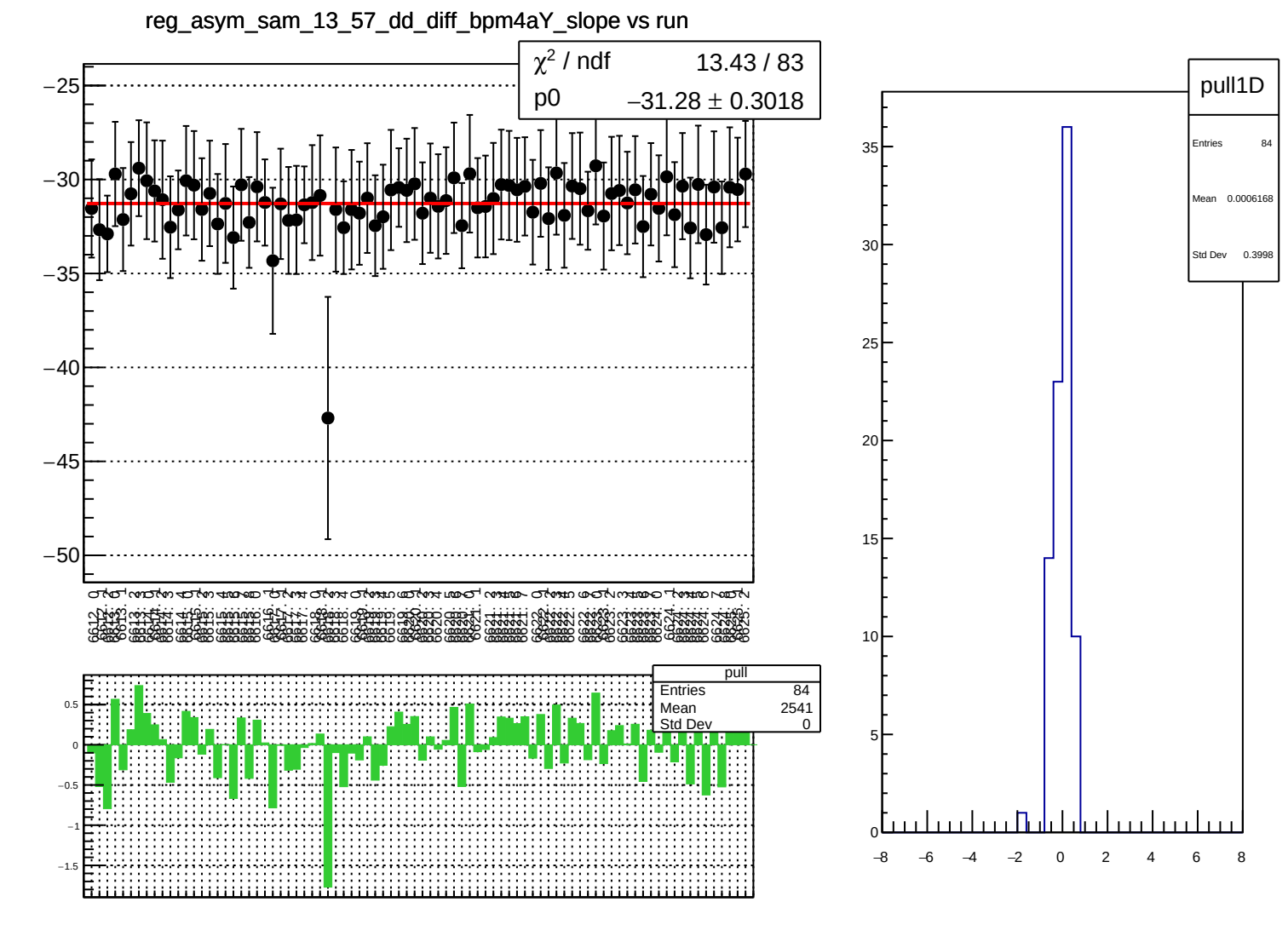

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.14 / 83
p0 93.01 ± 0.9368
120
110
100
90
80
70
pull
Entries 84
Mean 78.39
Std Dev 43.76
1.5
1
0.5
0
−0.5
−1
−1.5

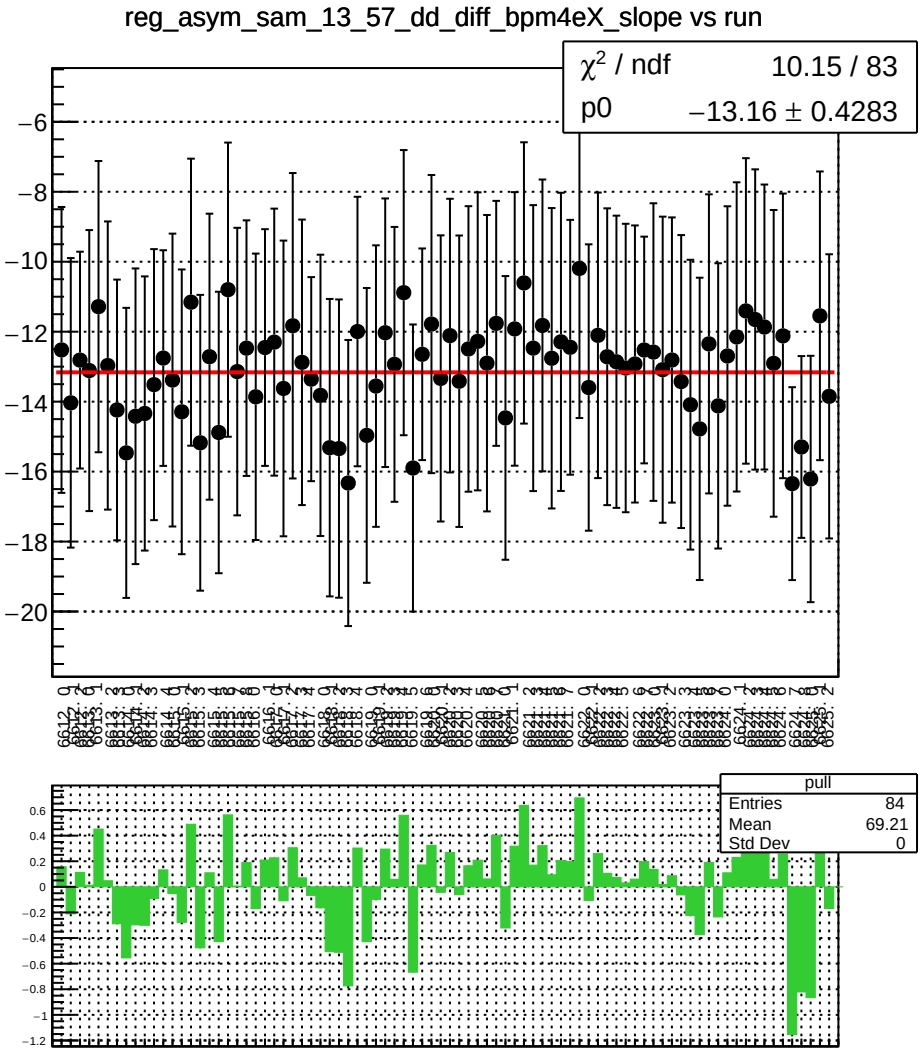

pull1D
Entries 84
Mean 0.0228
Std Dev 0.6822
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

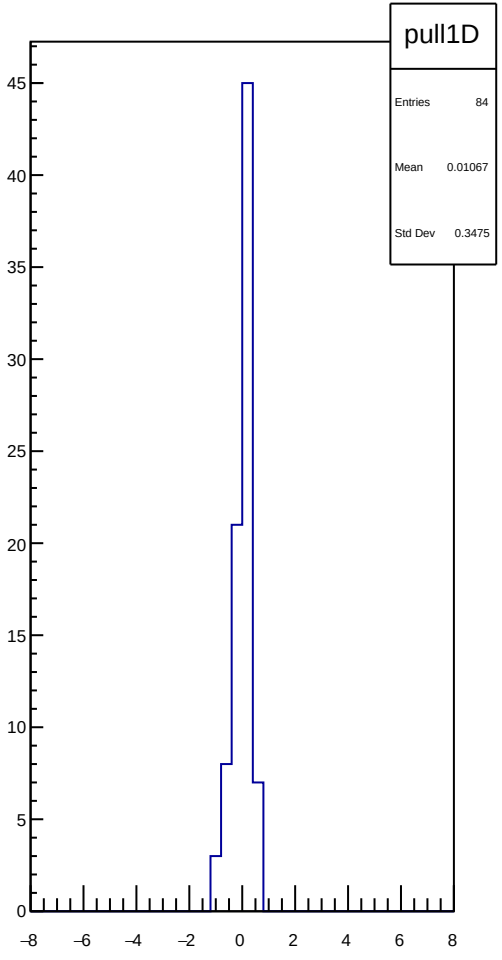

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.919 / 83
p0 −0.1748 ± 0.04672
pull
Entries 84
Mean −1197
Std Dev 0
pull1D
Entries 84
Mean −0.001275
Std Dev 0.242

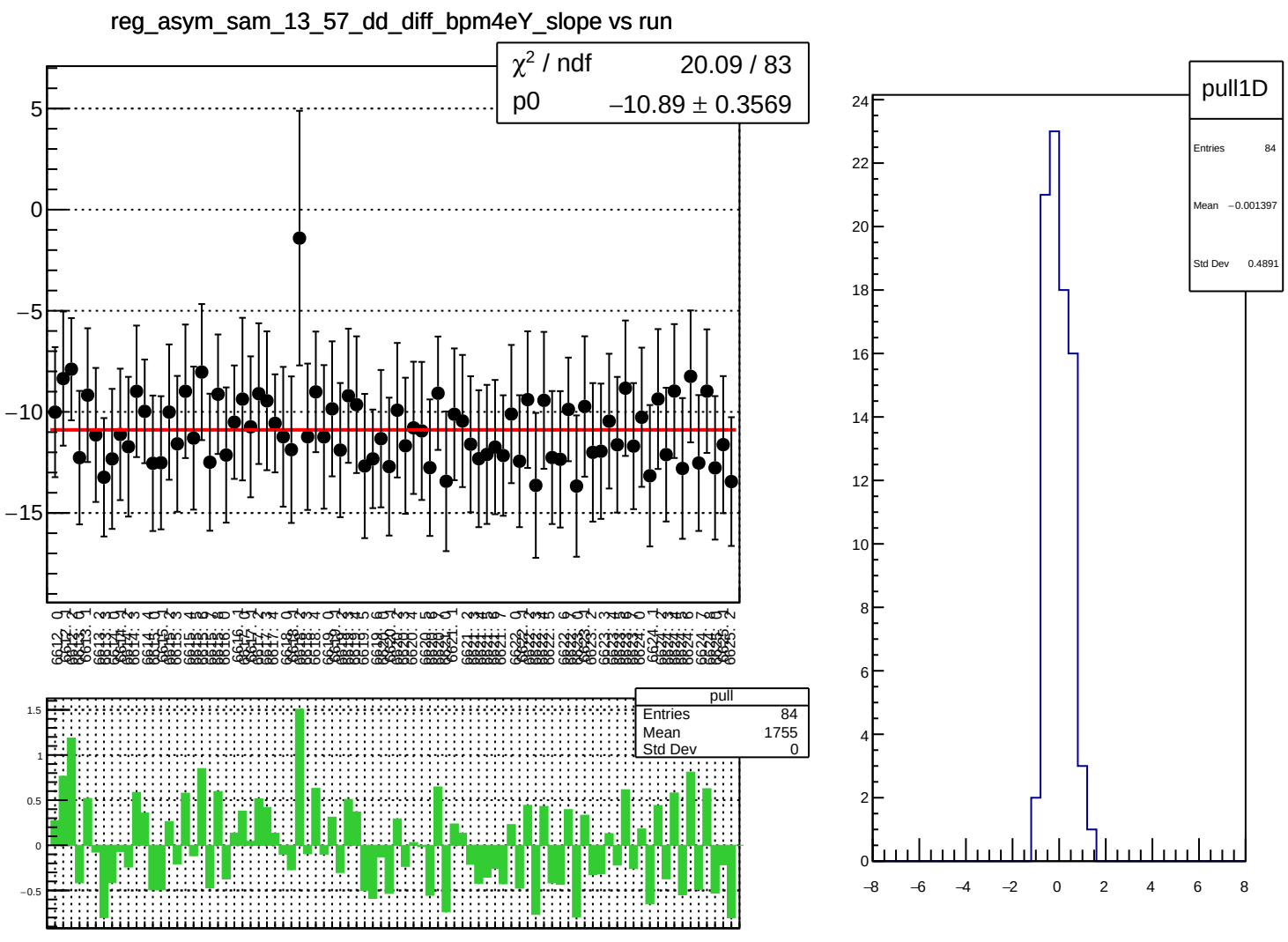

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 8.081 / 83
p0 −14.37 ± 0.4165
pull
Entries 84
Mean 28.35
Std Dev 0

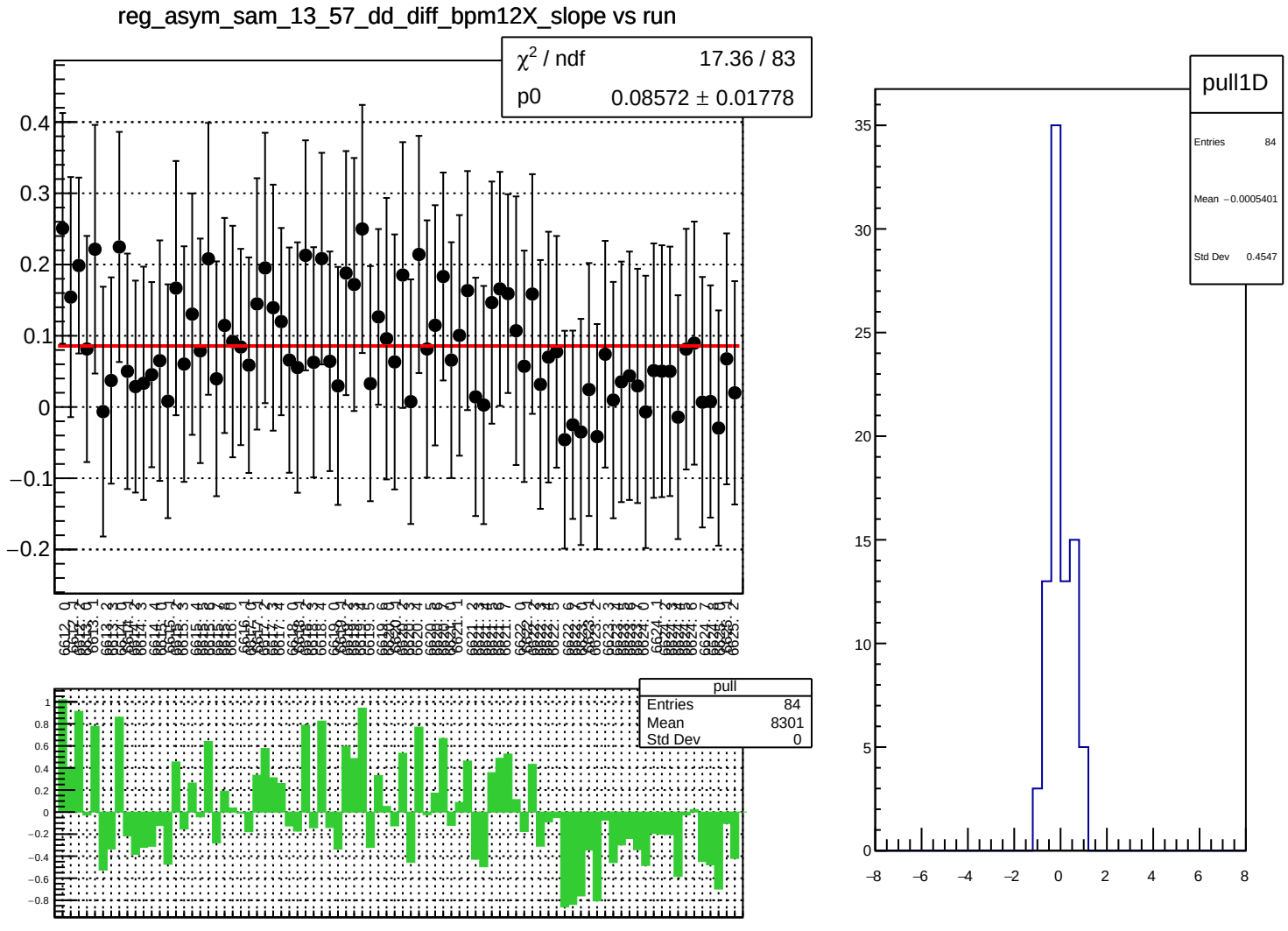

pull1D
Entries 84
Mean −0.01406
Std Dev 0.3099

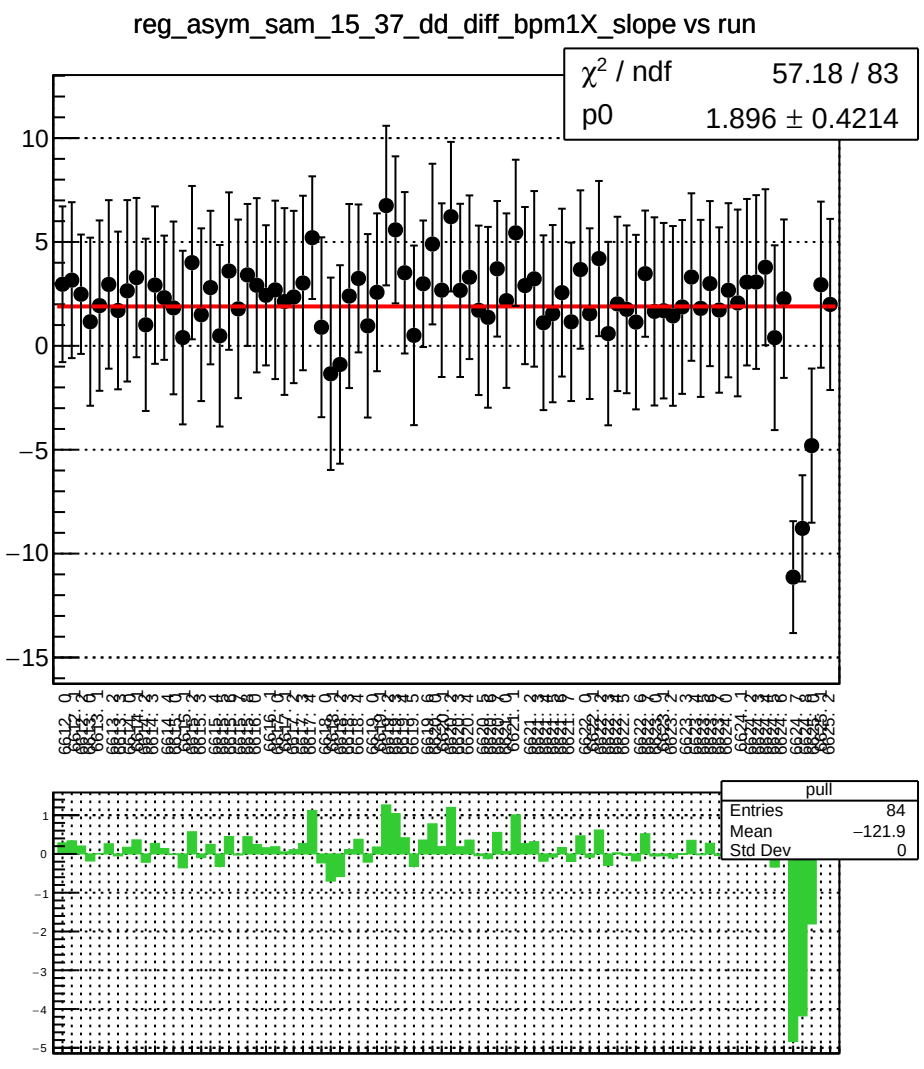

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.43 / 83
p0 −31.28 ± 0.3018
pull
Entries 84
Mean 2541
Std Dev 0
pull1D
Entries 84
Mean 0.0006168
Std Dev 0.3998

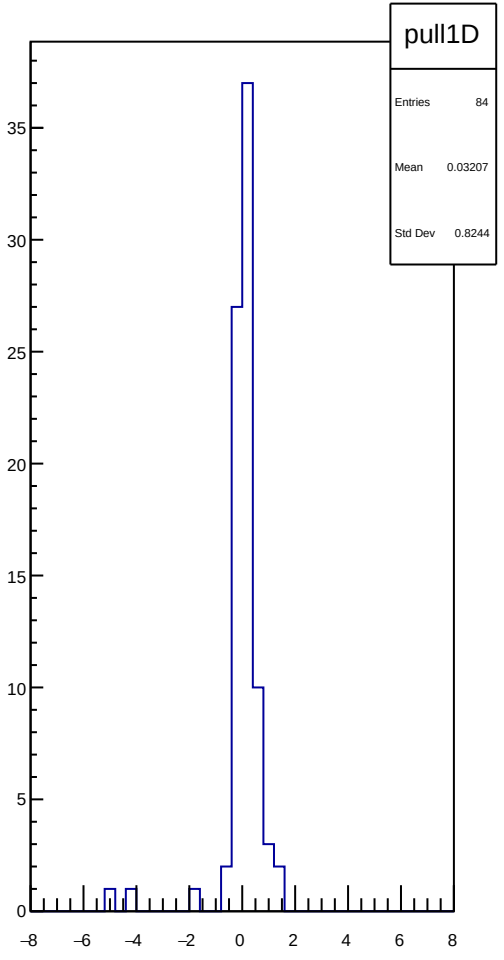

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.15 / 83
p0 −13.16 ± 0.4283
pull
Entries 84
Mean 69.21
Std Dev 0

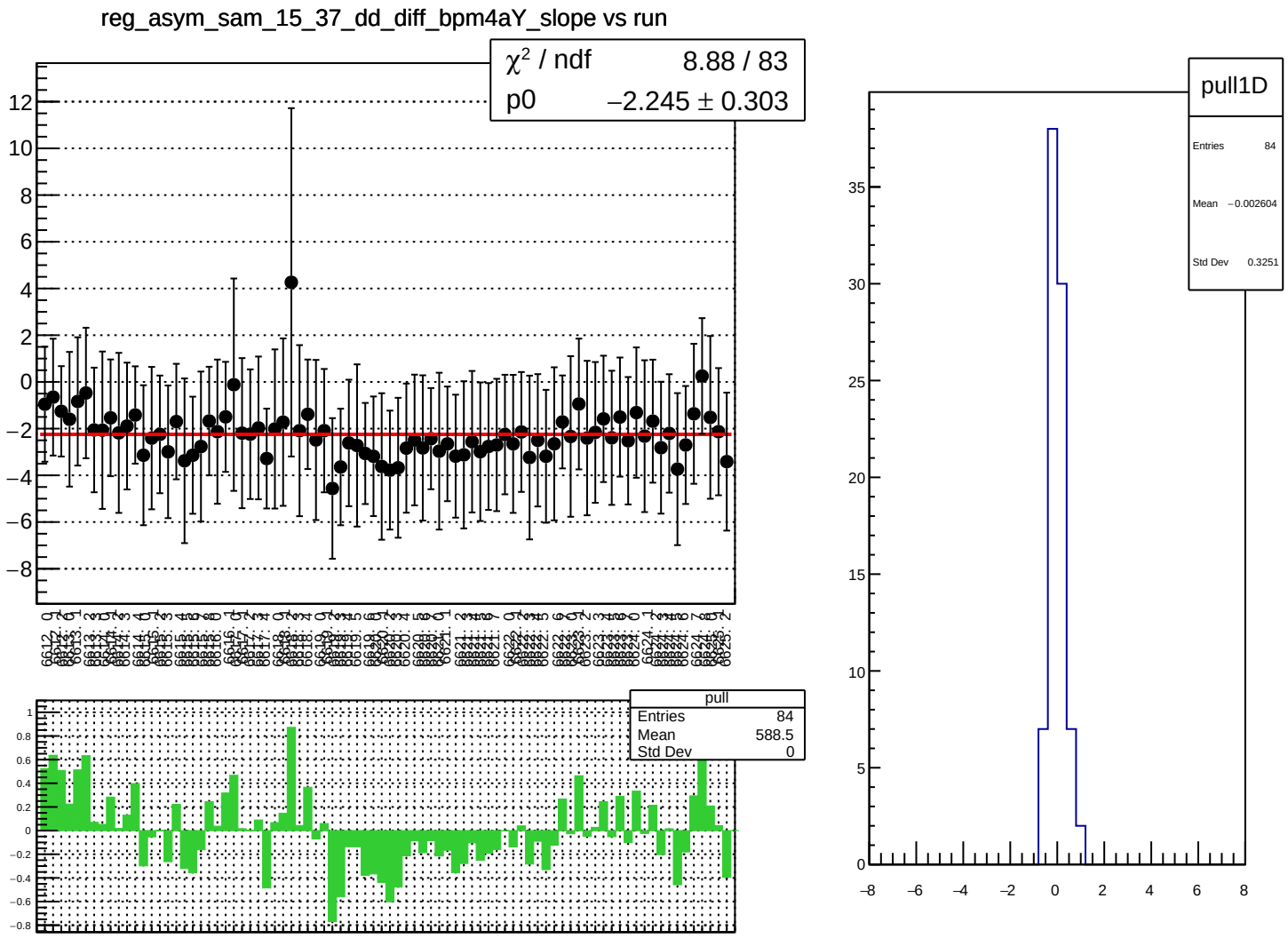

pull1D
Entries 84
Mean 0.01067
Std Dev 0.3475

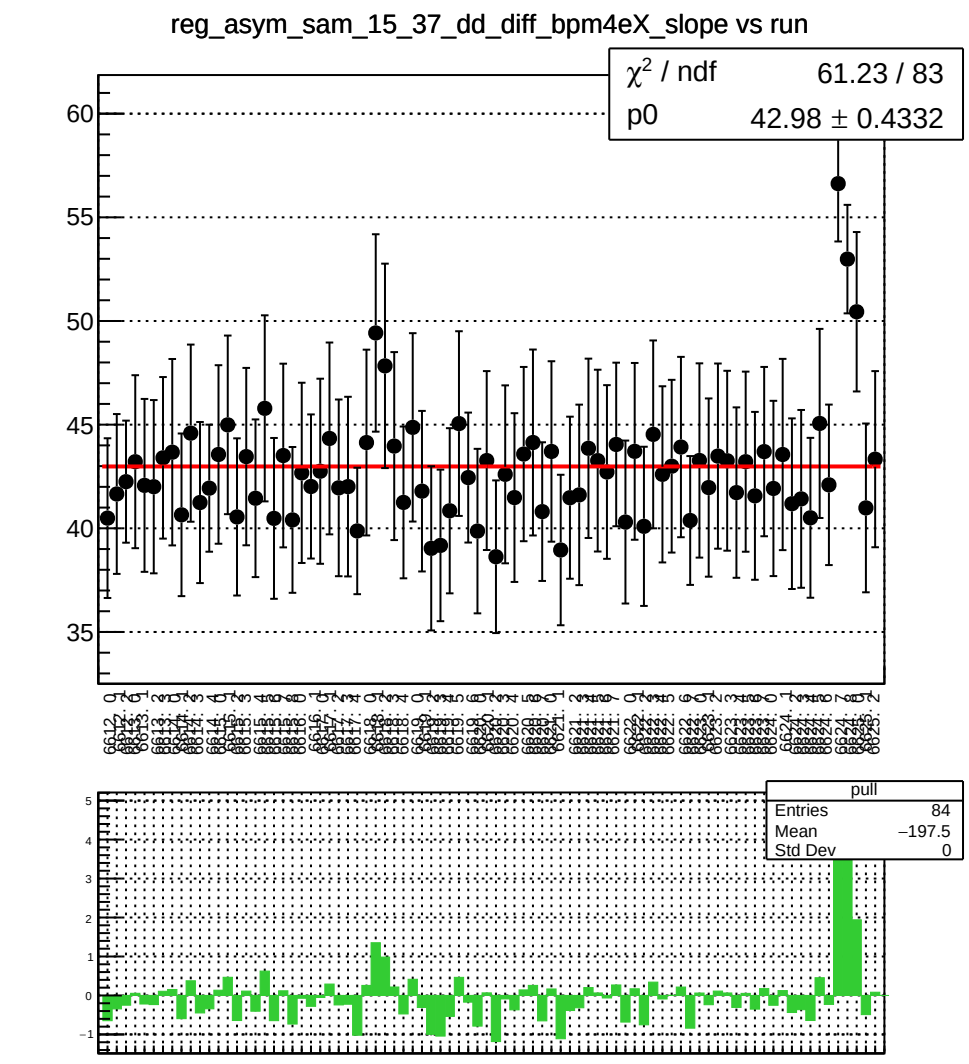

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.09 / 83
p0 −10.89 ± 0.3569
pull
Entries 84
Mean 1755
Std Dev 0
pull1D
Entries 84
Mean −0.001397
Std Dev 0.4891

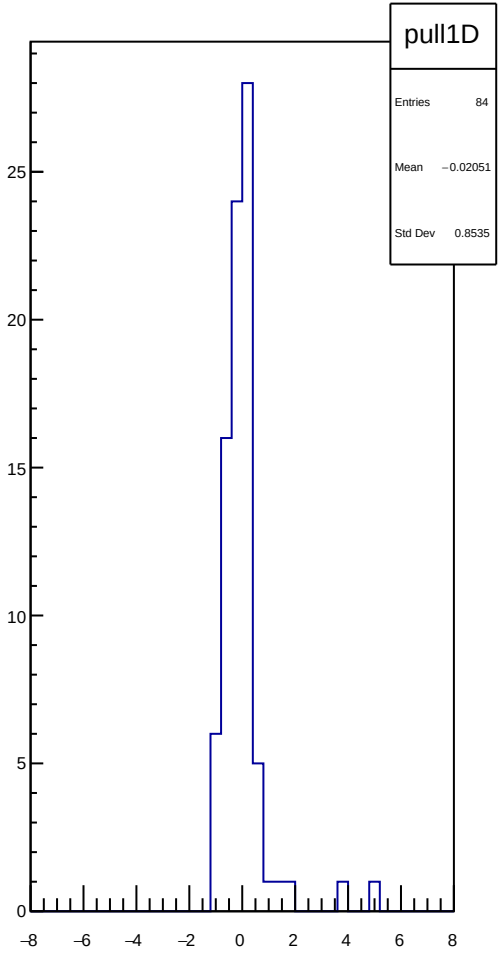

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 17.36 / 83
p0 0.08572 ± 0.01778
pull
Entries 84
Mean 8301
Std Dev 0
pull1D
Entries 84
Mean −0.0005401
Std Dev 0.4547

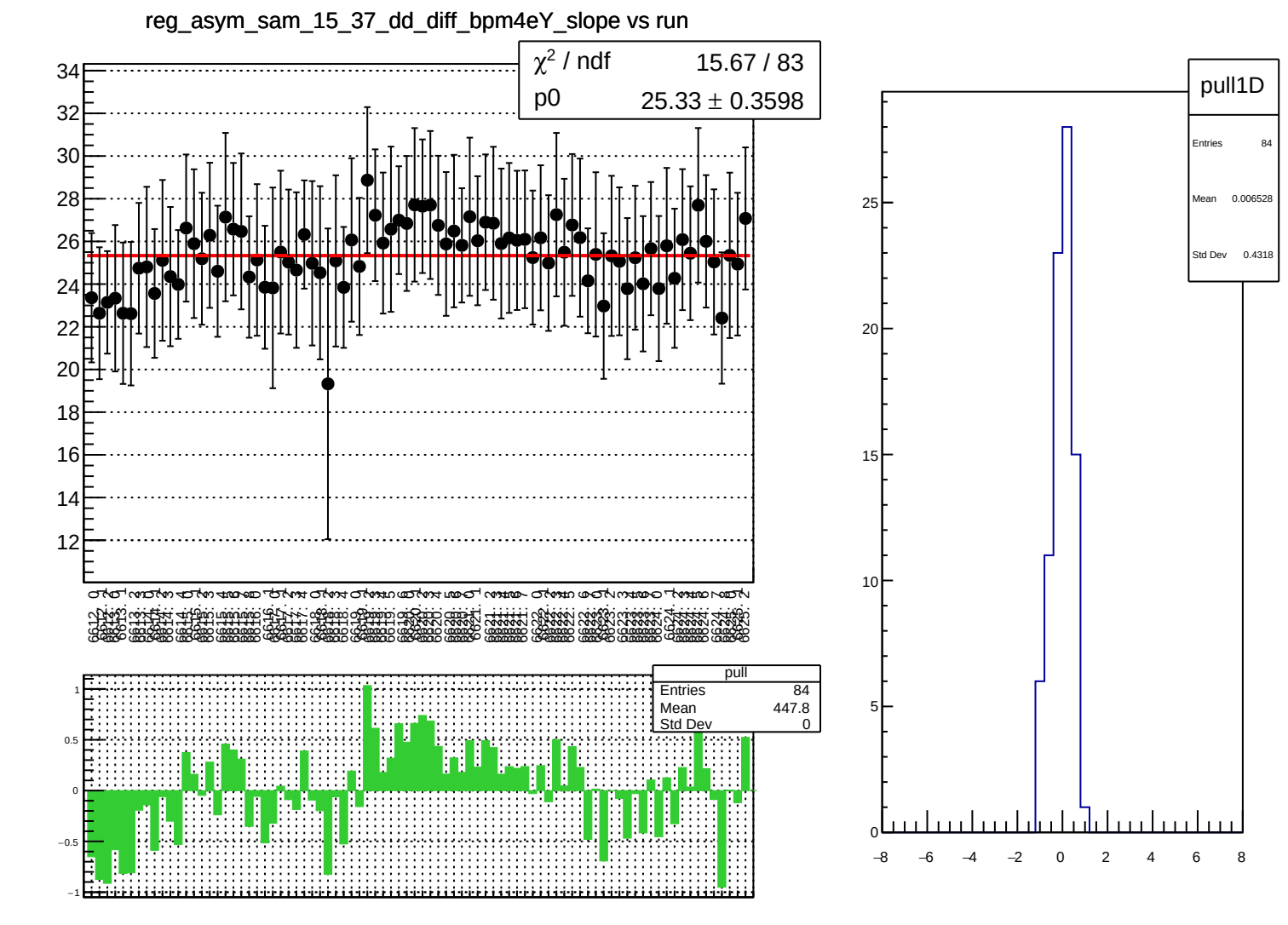

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 57.18 / 83
p0 1.896 ± 0.4214
pull
Entries 84
Mean −121.9
Std Dev 0

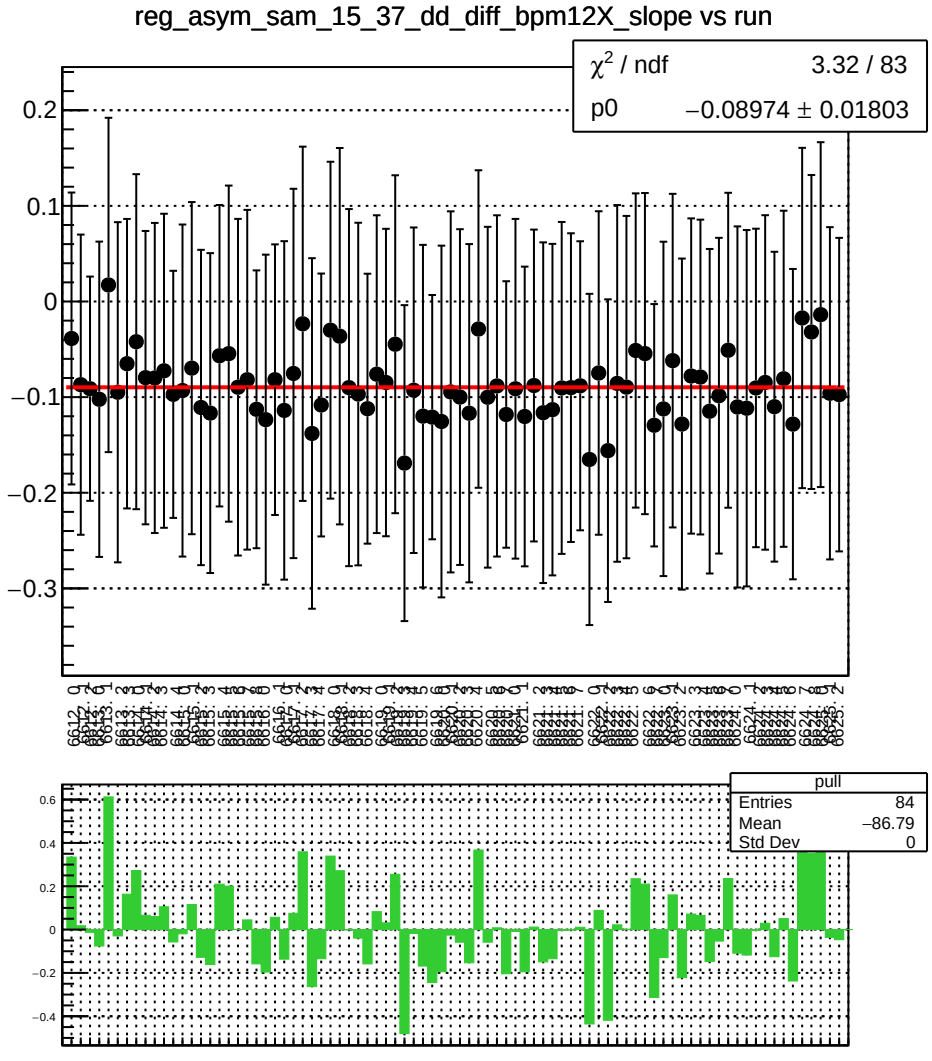

pull1D
Entries 84
Mean 0.03207
Std Dev 0.8244

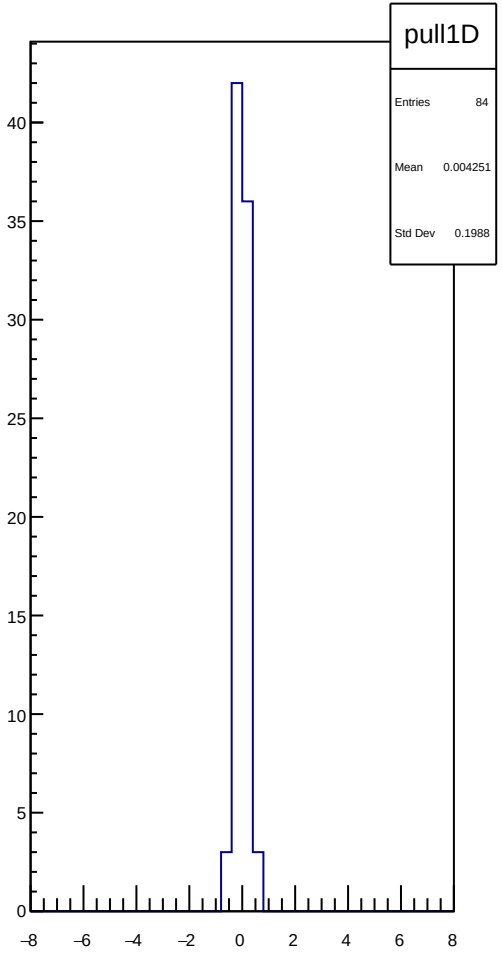

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.88 / 83
p0 −2.245 ± 0.303
pull
Entries 84
Mean 588.5
Std Dev 0
pull1D
Entries 84
Mean −0.002604
Std Dev 0.3251

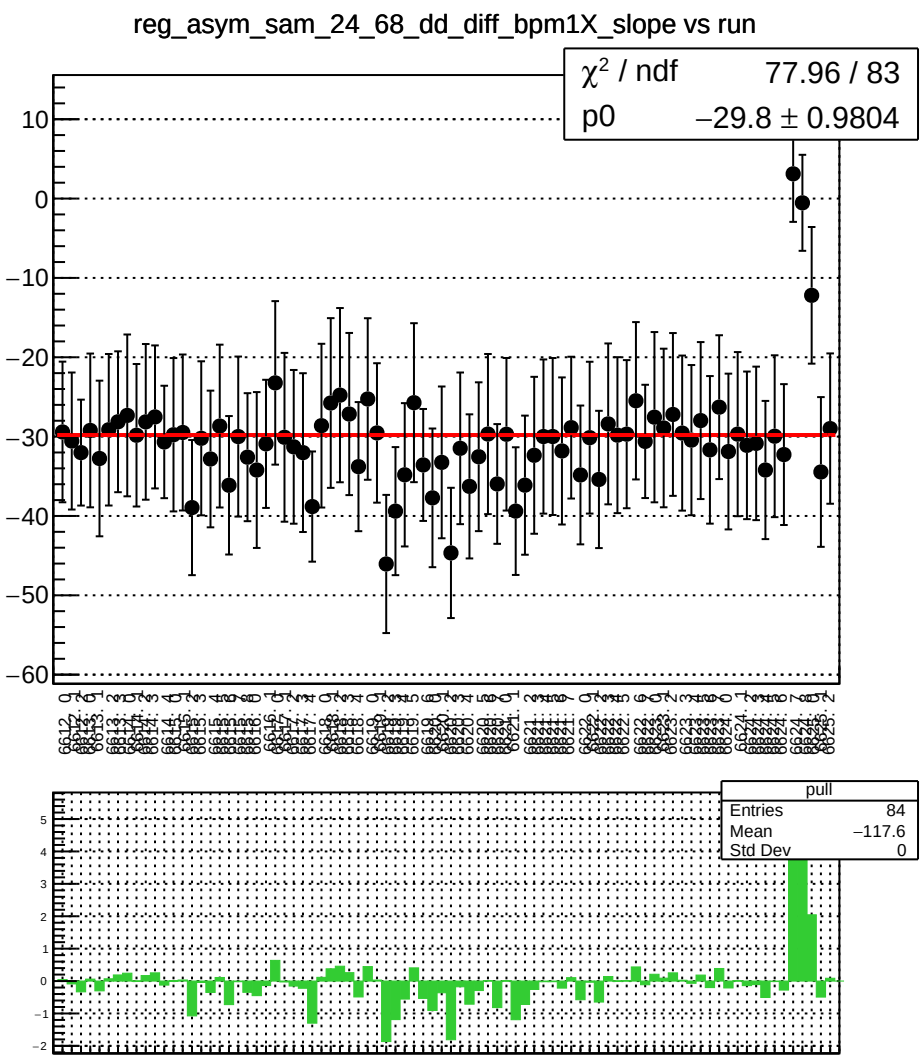

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.23 / 83
p0 42.98 ± 0.4332
pull
Entries 84
Mean −197.5
Std Dev 0

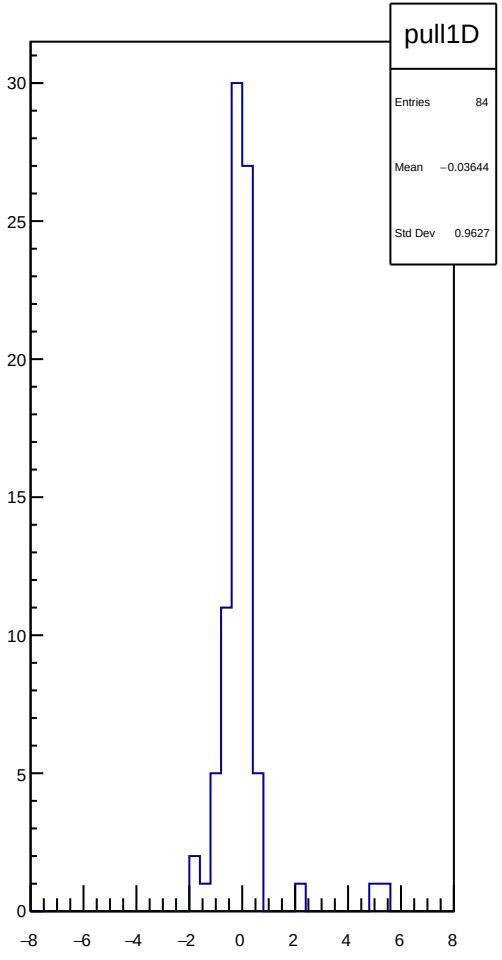

pull1D
Entries 84
Mean −0.02051
Std Dev 0.8535

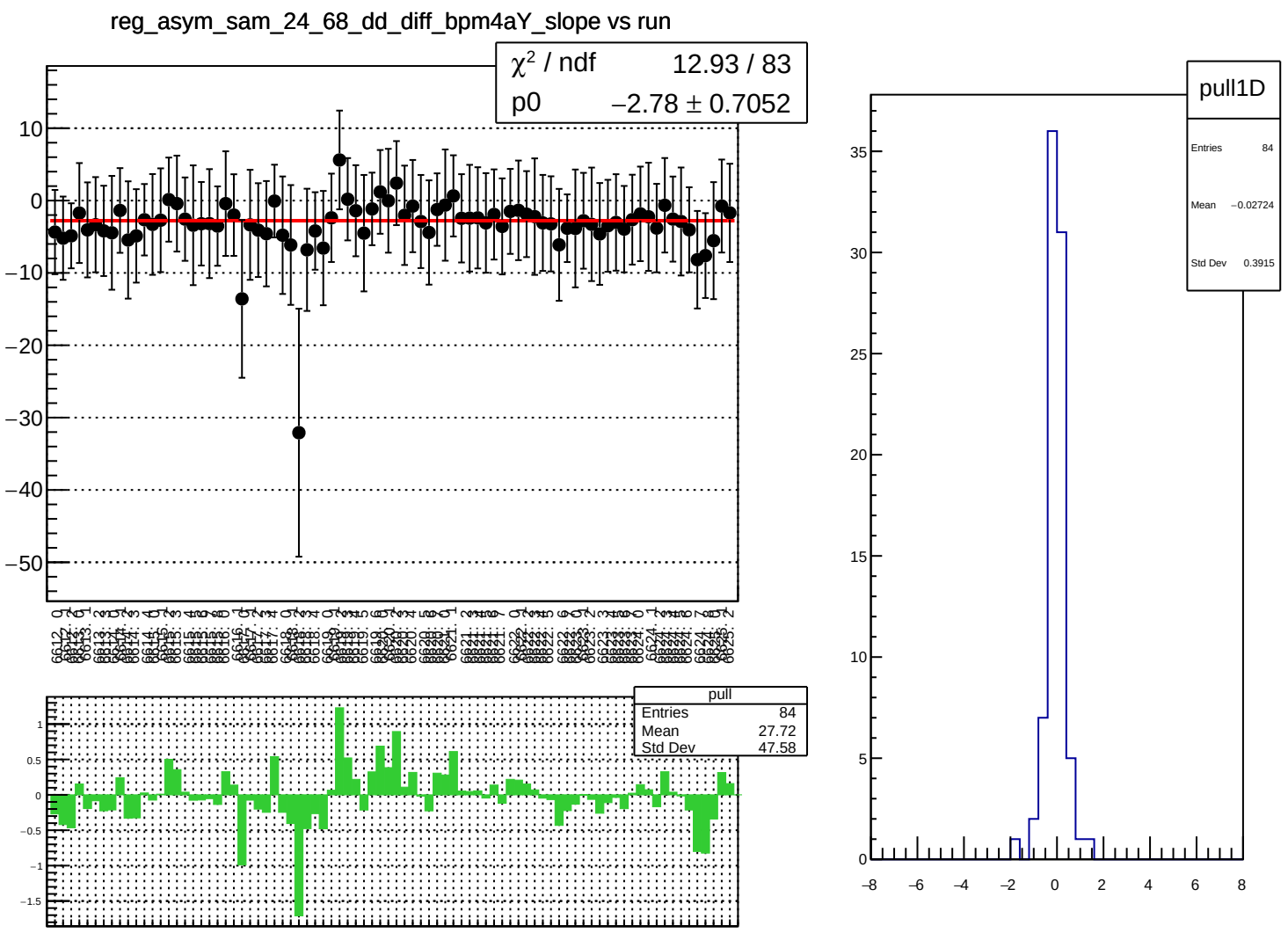

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.67 / 83
p0 25.33 ± 0.3598
pull
Entries 84
Mean 447.8
Std Dev 0
pull1D
Entries 84
Mean 0.006528
Std Dev 0.4318

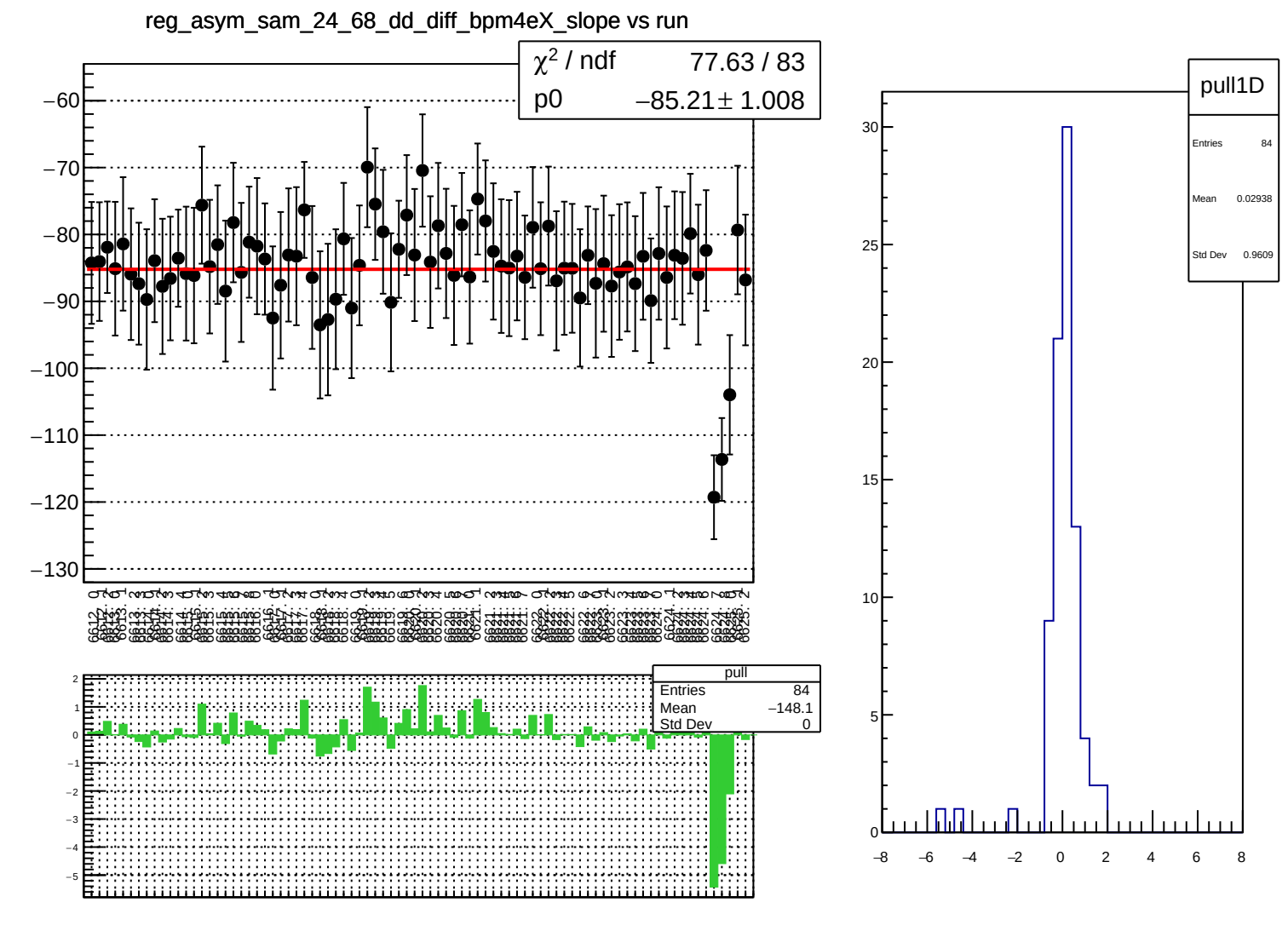

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.32 / 83
p0 −0.08974 ± 0.01803
pull
Entries 84
Mean −86.79
Std Dev 0

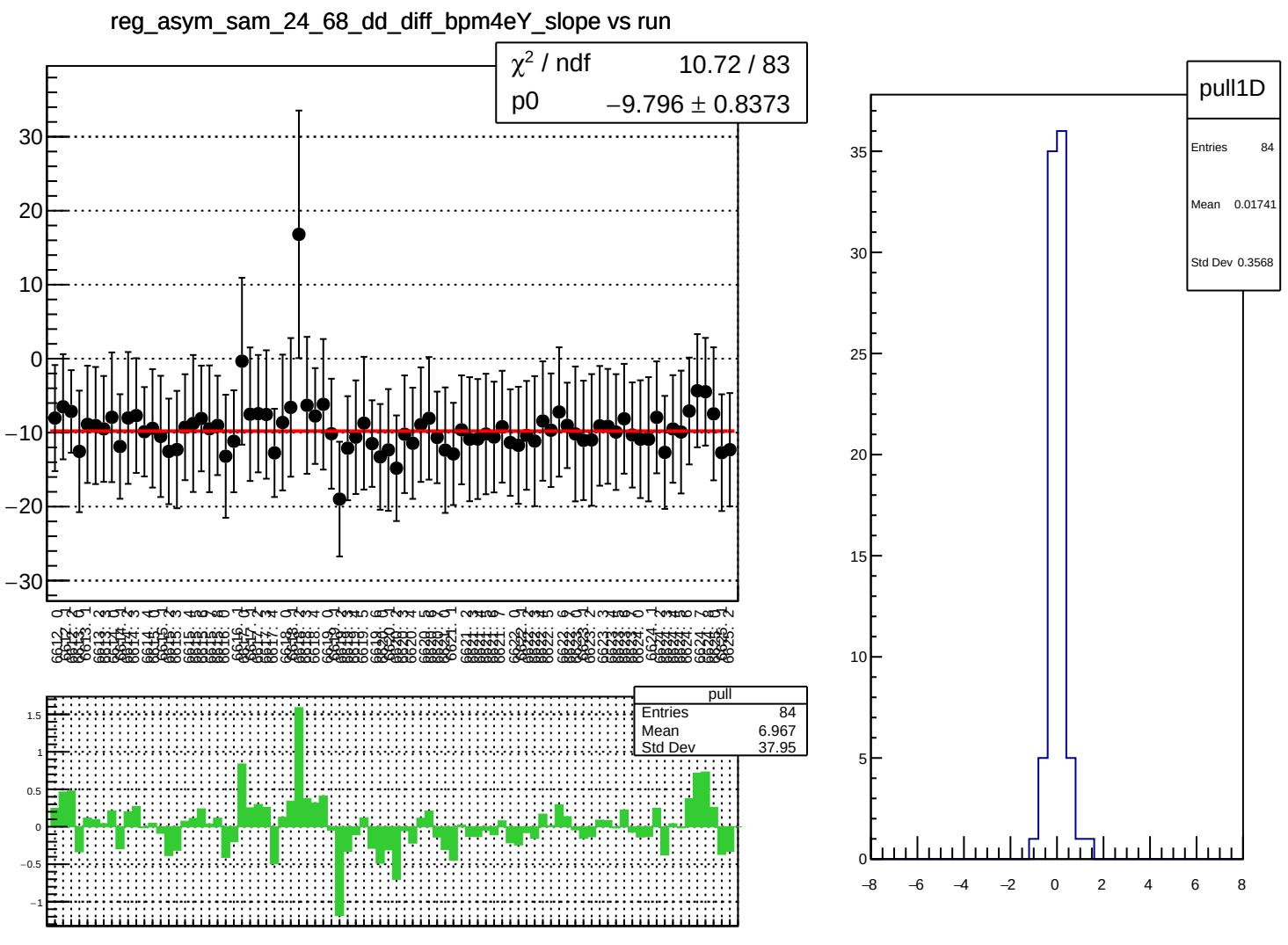

pull1D
Entries 84
Mean 0.004251
Std Dev 0.1988

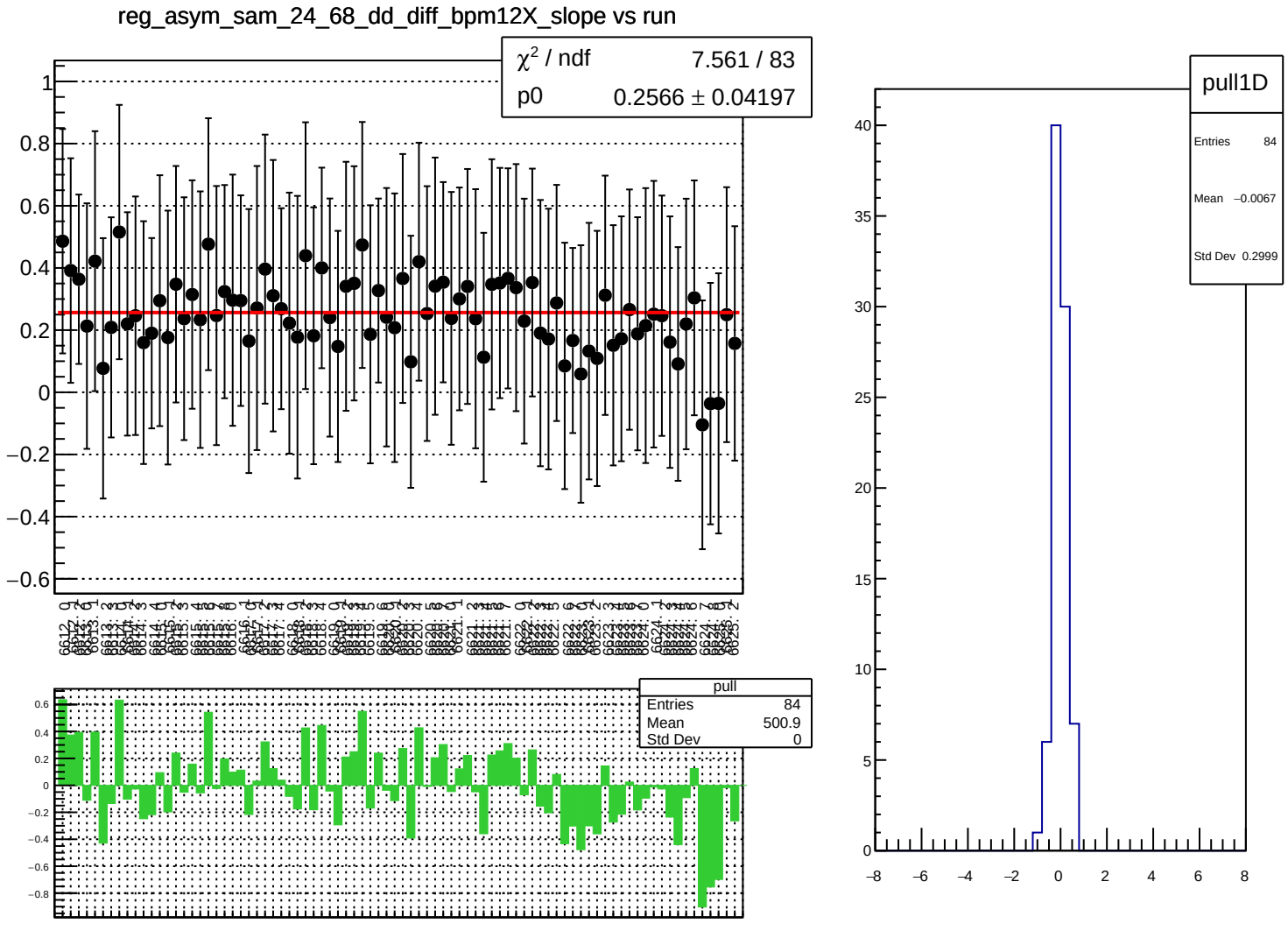

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 77.96 / 83
p0 −29.8 ± 0.9804
pull
Entries 84
Mean −117.6
Std Dev 0

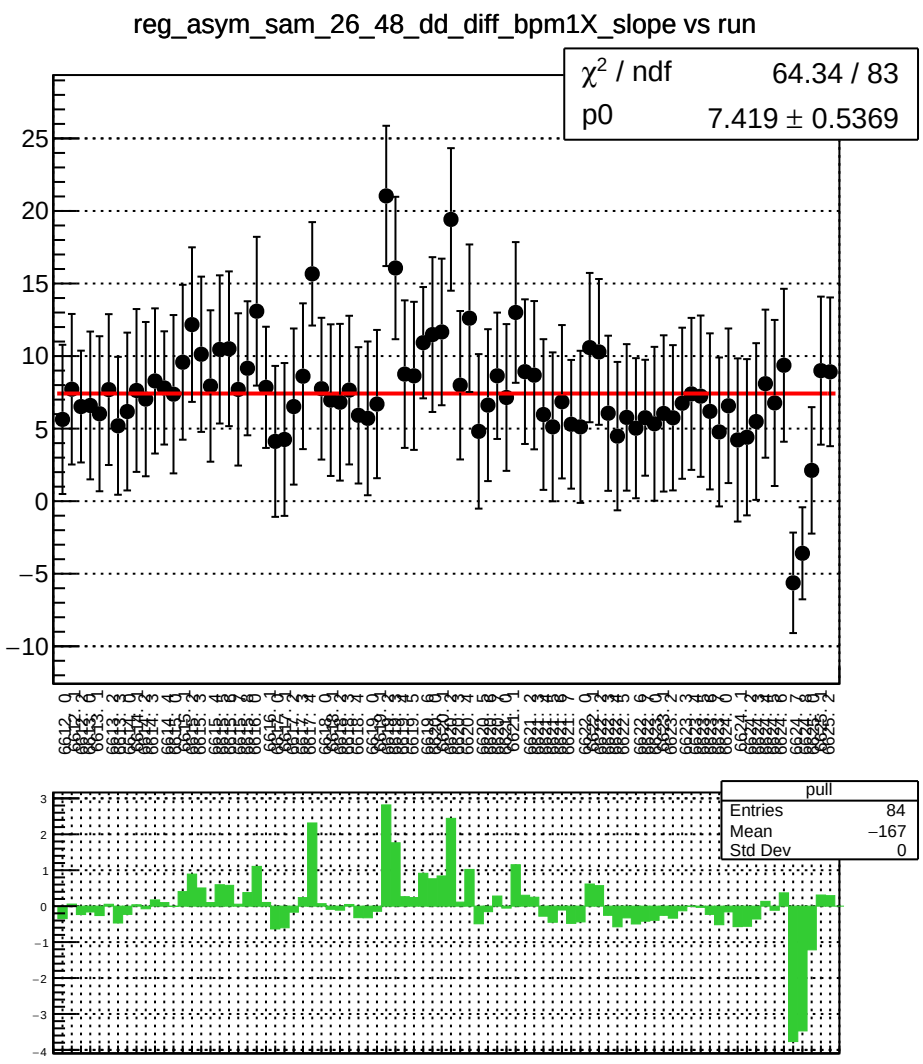

pull1D
Entries 84
Mean −0.03644
Std Dev 0.9627

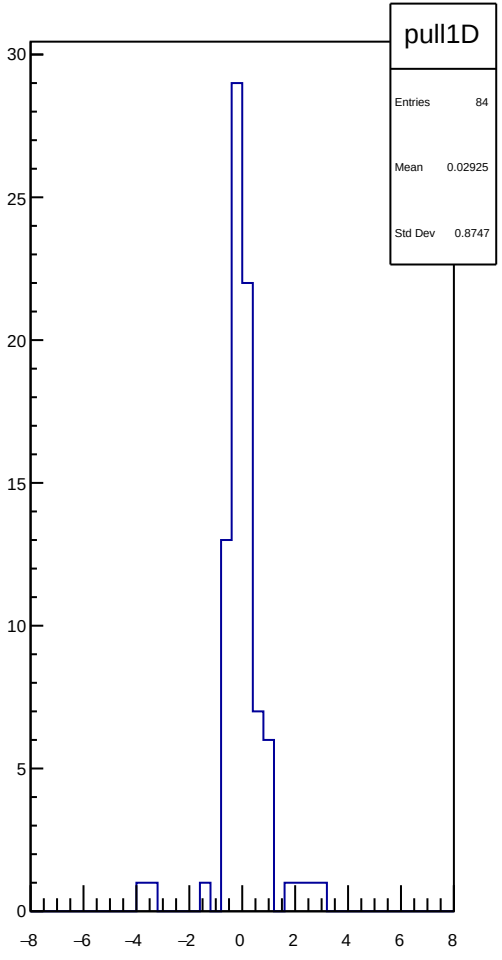

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.93 / 83
p0 −2.78 ± 0.7052
pull
Entries 84
Mean 27.72
Std Dev 47.58
pull1D
Entries 84
Mean −0.02724
Std Dev 0.3915

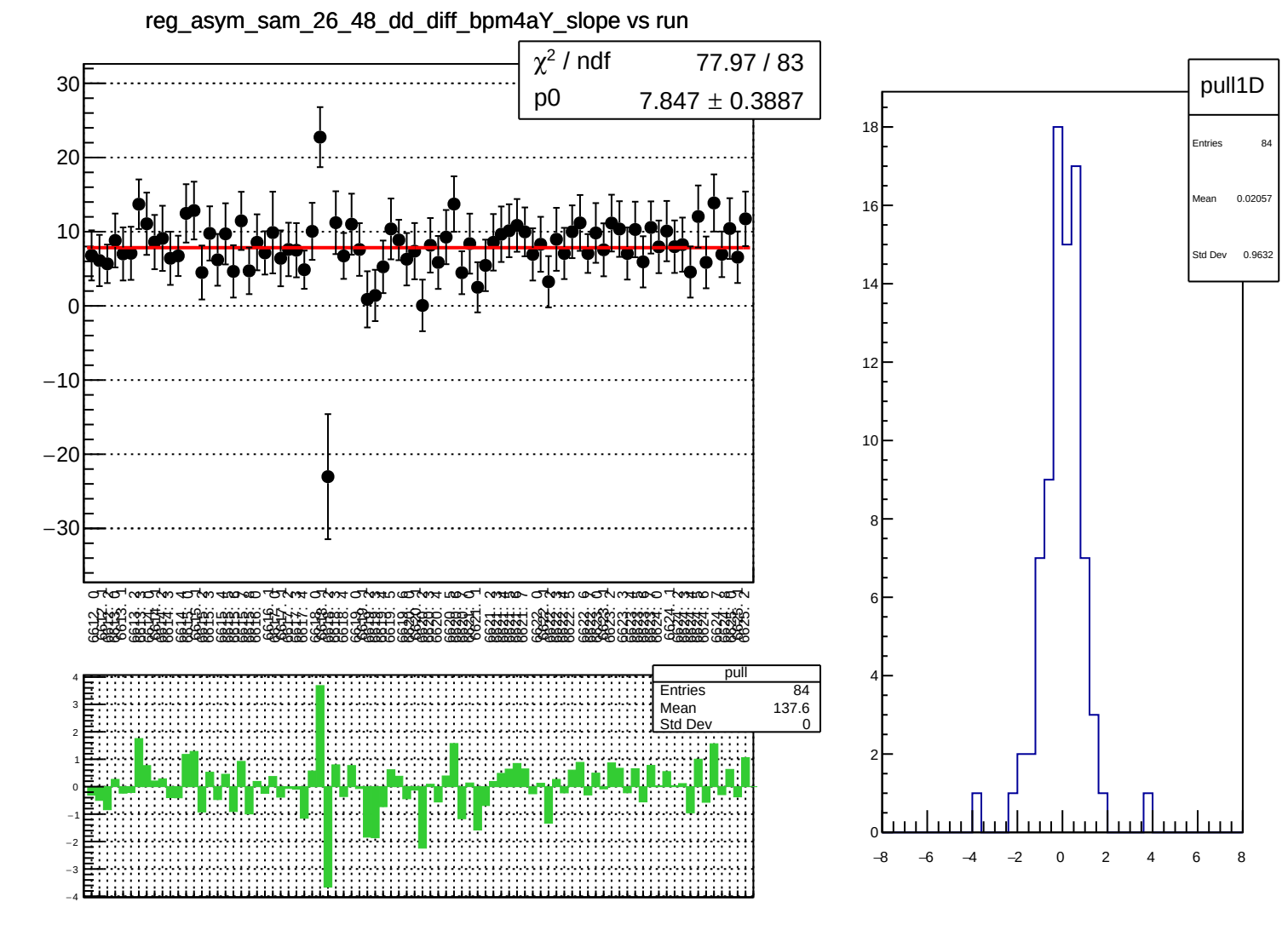

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 77.63 / 83
p0 −85.21 ± 1.008
pull
Entries 84
Mean −148.1
Std Dev 0
pull1D
Entries 84
Mean 0.02938
Std Dev 0.9609

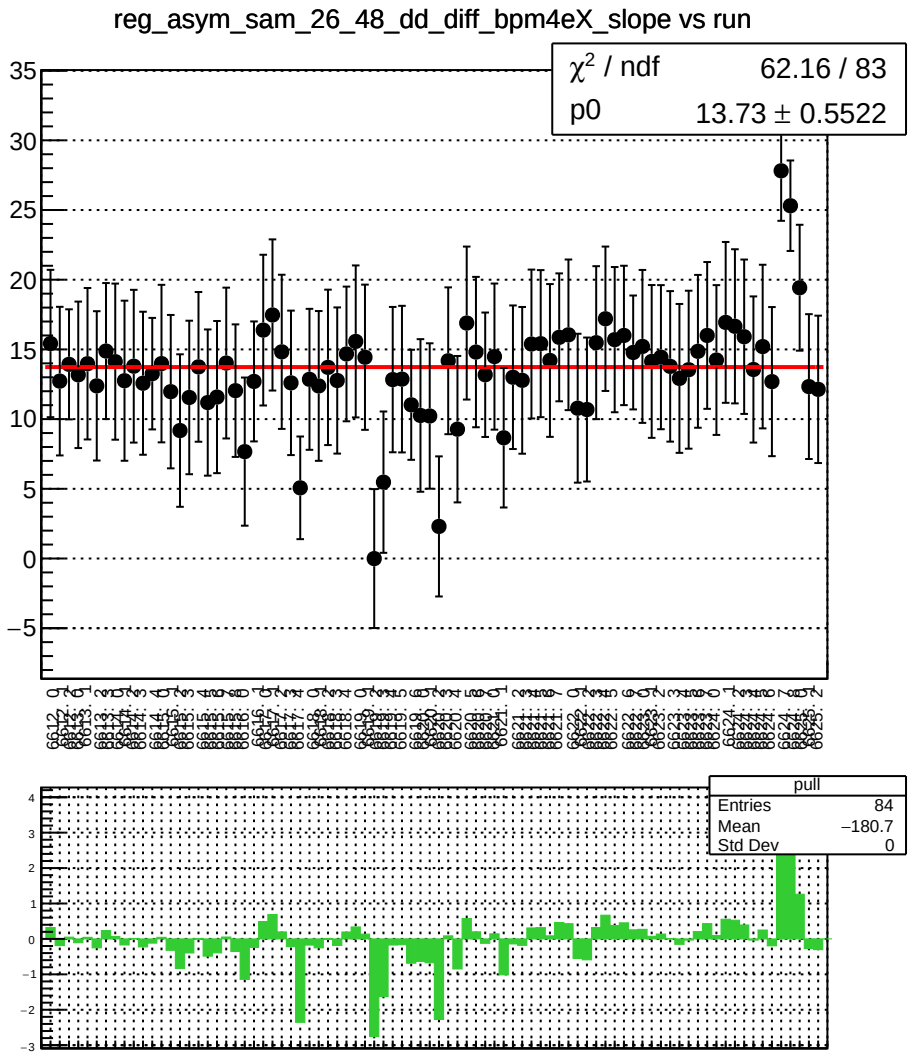

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.72 / 83
p0 −9.796 ± 0.8373
pull
Entries 84
Mean 6.967
Std Dev 37.95
pull1D
Entries 84
Mean 0.01741
Std Dev 0.3568

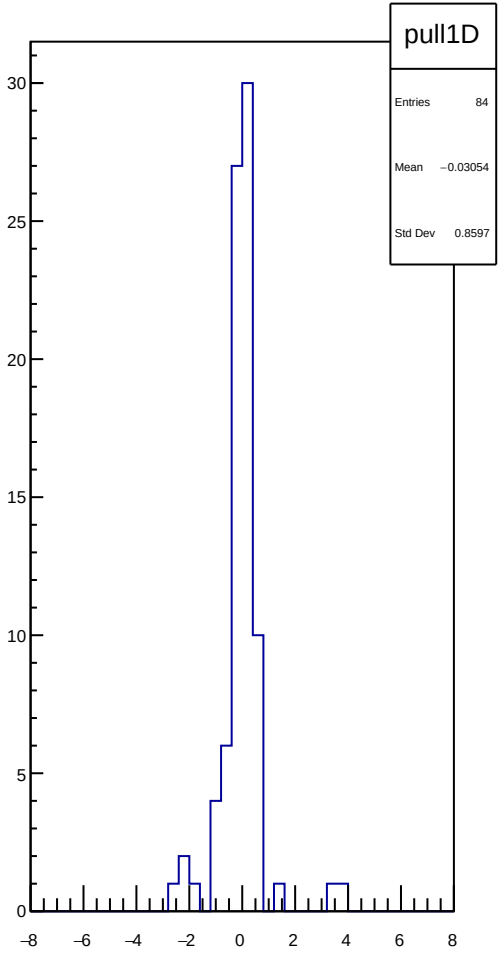

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 7.561 / 83
p0 0.2566 ± 0.04197
pull
Entries 84
Mean 500.9
Std Dev 0
pull1D
Entries 84
Mean −0.0067
Std Dev 0.2999

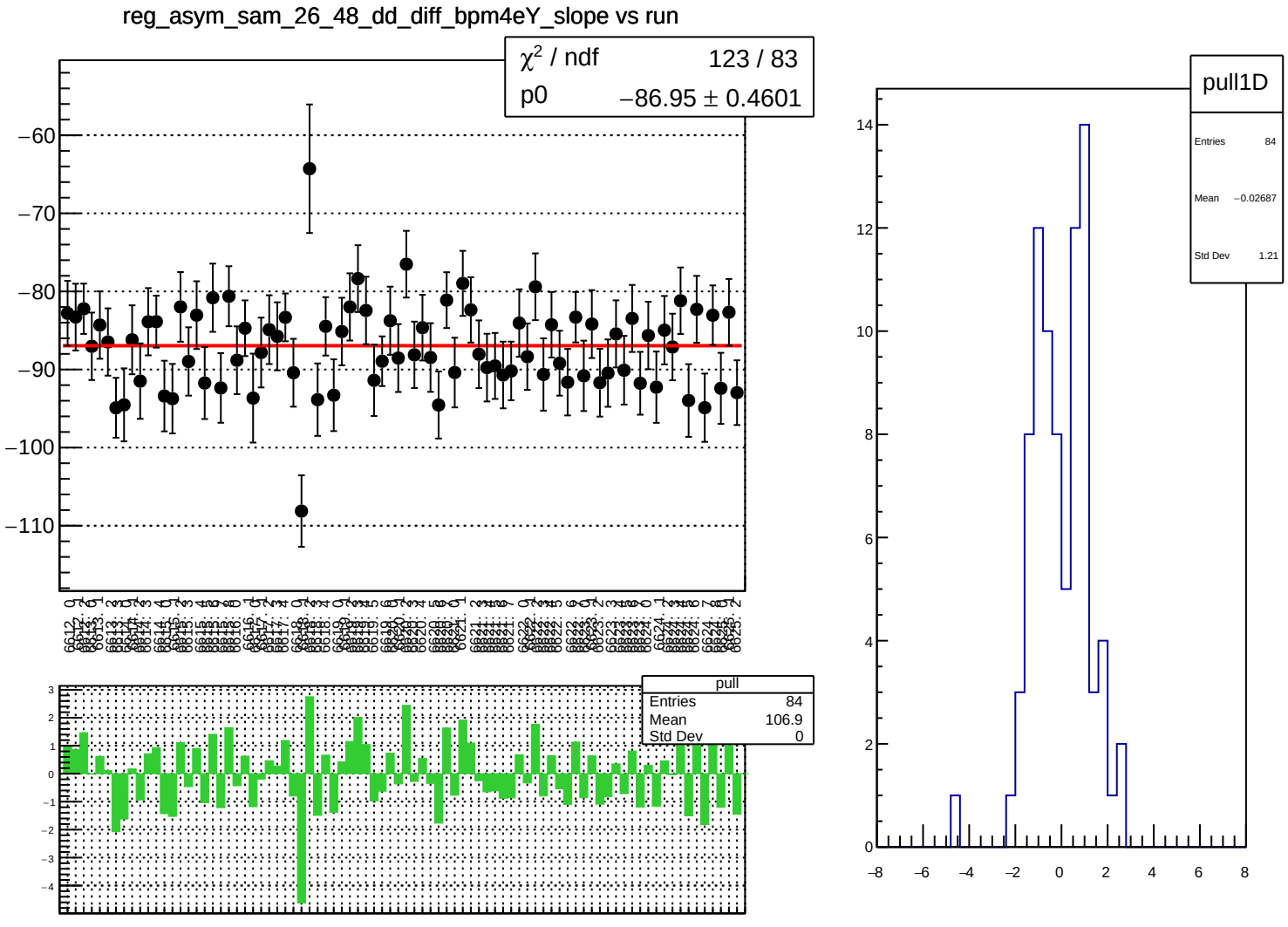

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 64.34 / 83
p0 7.419 ± 0.5369
pull
Entries 84
Mean −167
Std Dev 0

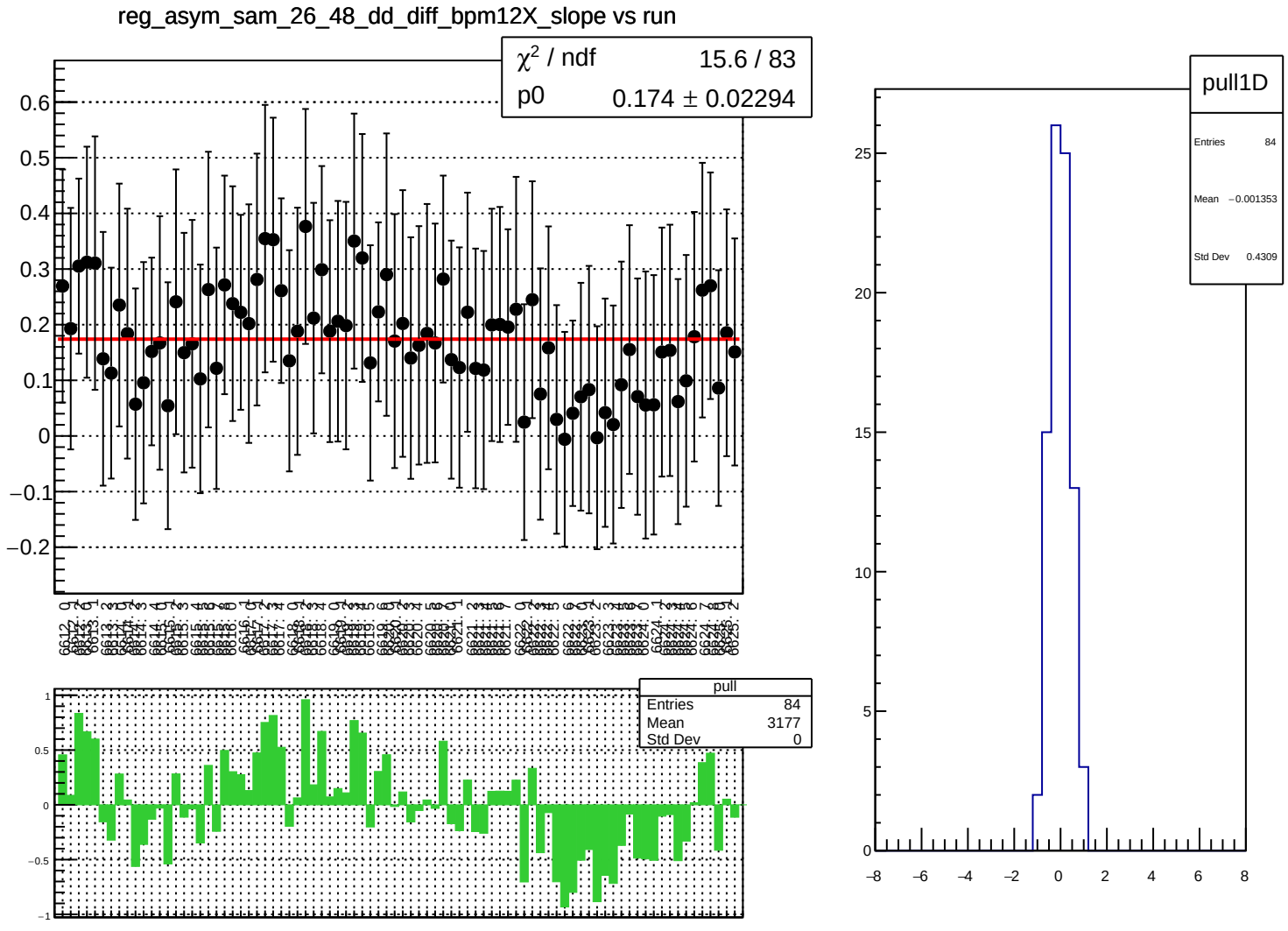

pull1D
Entries 84
Mean 0.02925
Std Dev 0.8747

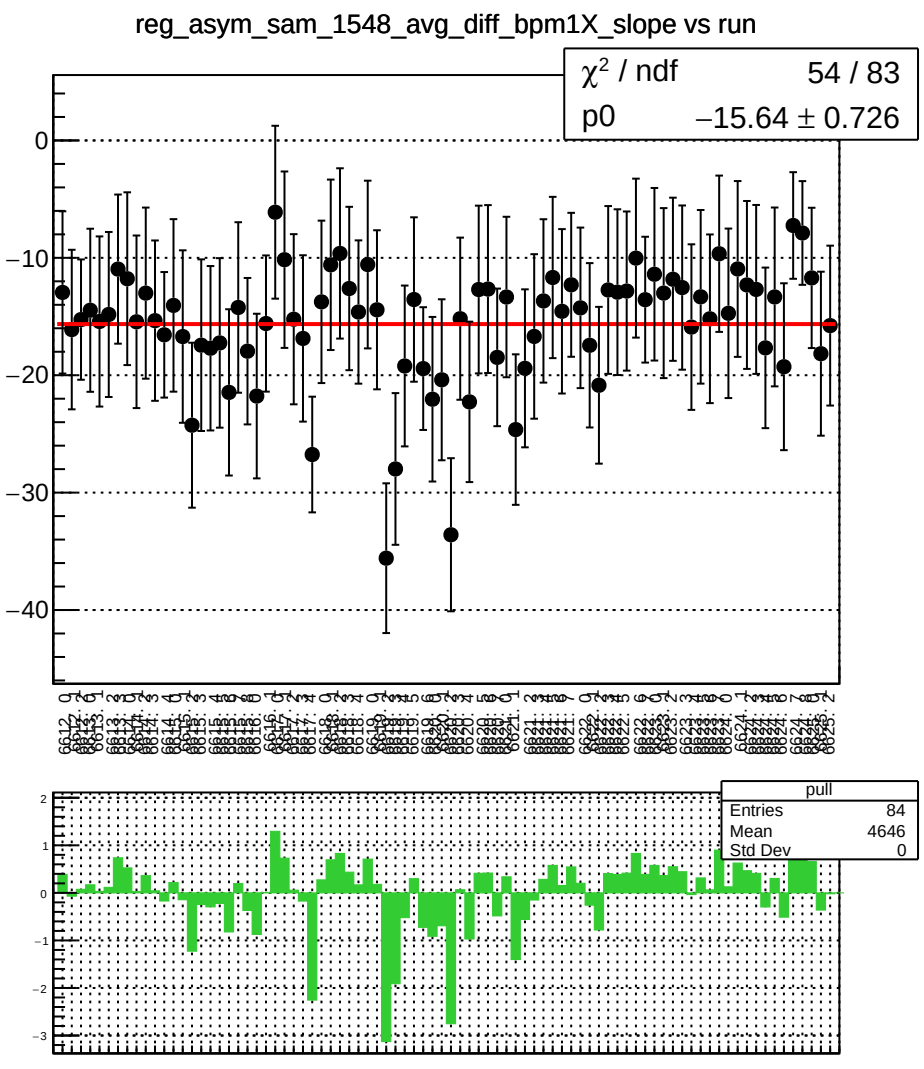

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.97 / 83
p0 7.847 ± 0.3887
pull
Entries 84
Mean 137.6
Std Dev 0
pull1D
Entries 84
Mean 0.02057
Std Dev 0.9632

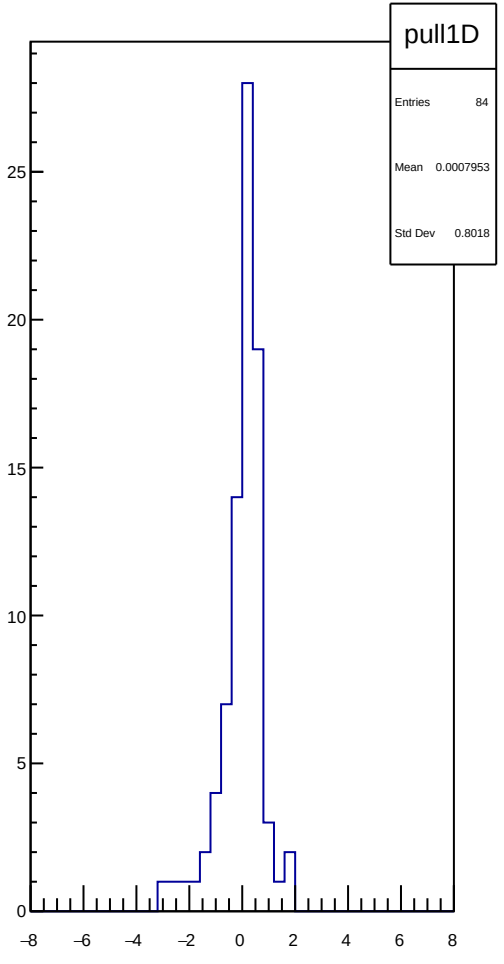

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.16 / 83
p0 13.73 ± 0.5522
pull
Entries 84
Mean −180.7
Std Dev 0

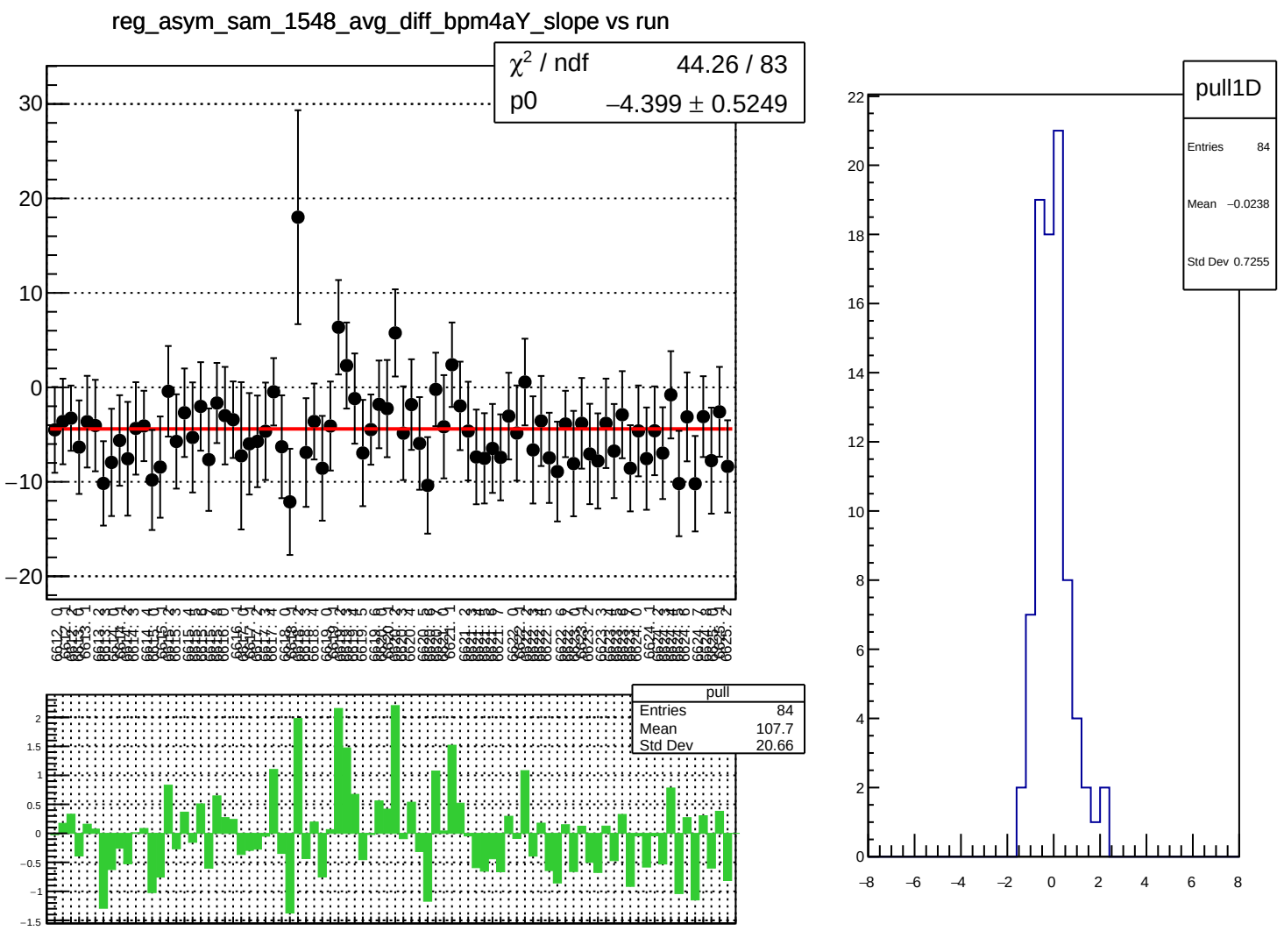

pull1D
Entries 84
Mean −0.03054
Std Dev 0.8597

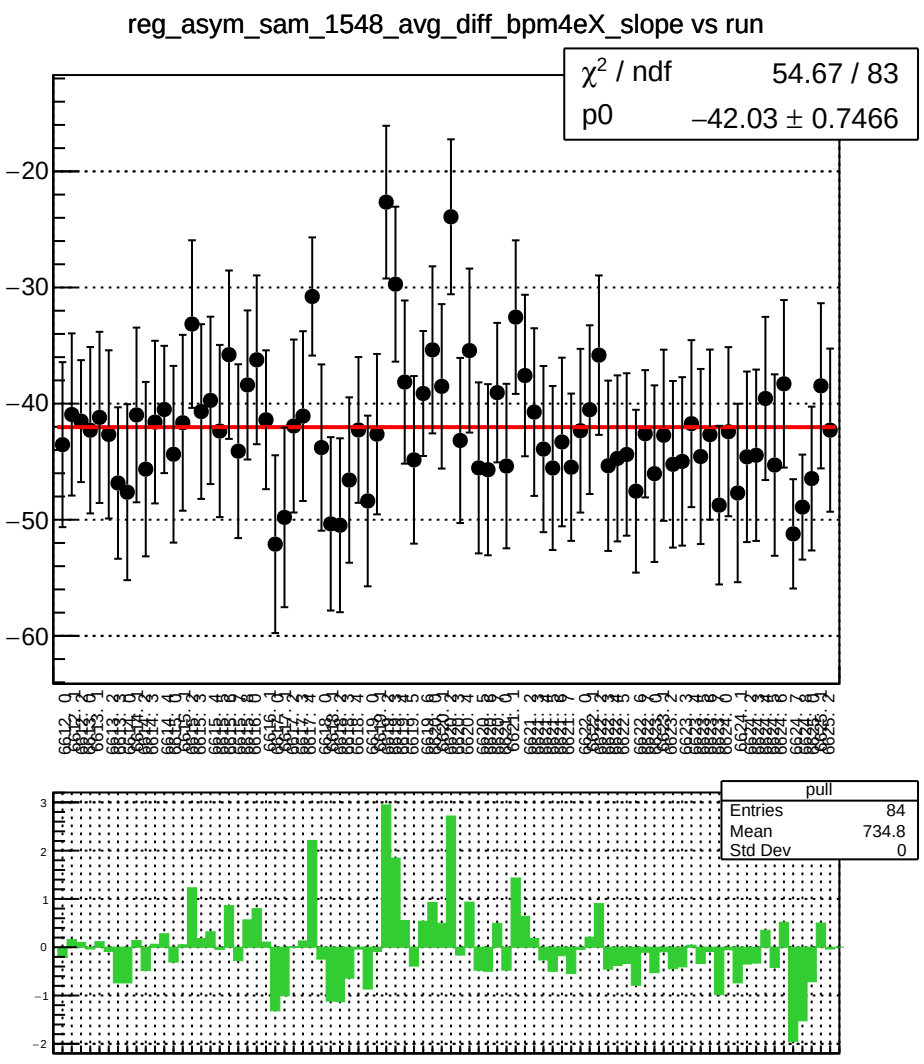

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 123 / 83
p0 −86.95 ± 0.4601
pull
Entries 84
Mean 106.9
Std Dev 0
pull1D
Entries 84
Mean −0.02687
Std Dev 1.21

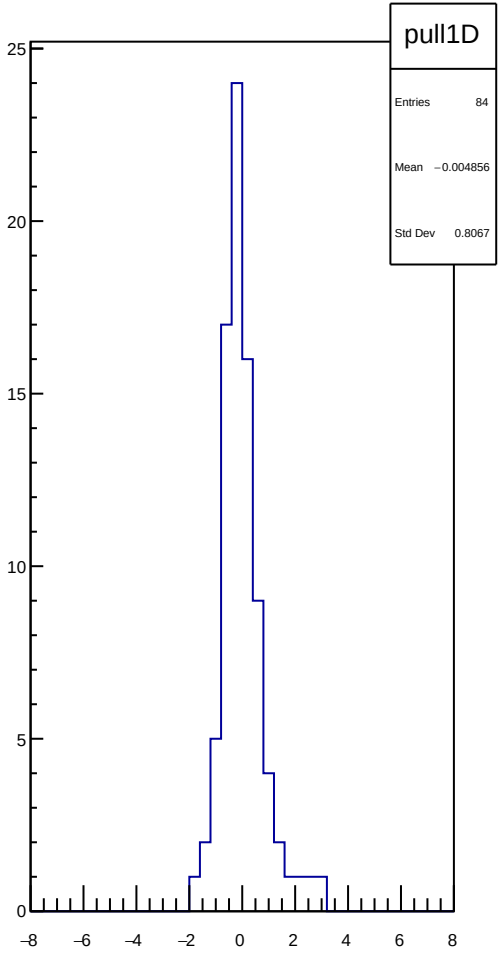

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 15.6 / 83
p0 0.174 ± 0.02294
pull
Entries 84
Mean 3177
Std Dev 0
pull1D
Entries 84
Mean −0.001353
Std Dev 0.4309

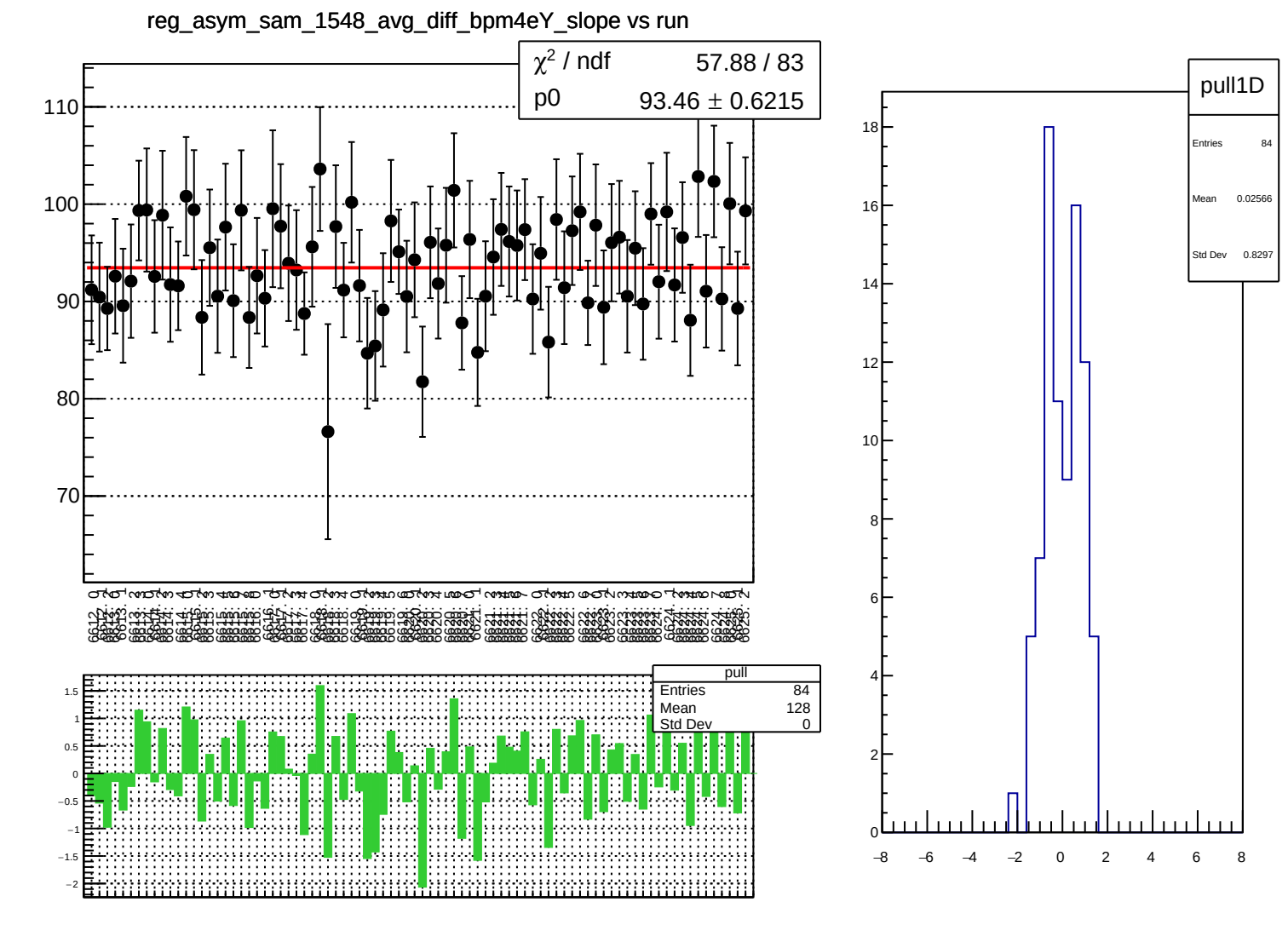

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 54 / 83
p0 −15.64 ± 0.726
pull
Entries 84
Mean 4646
Std Dev 0

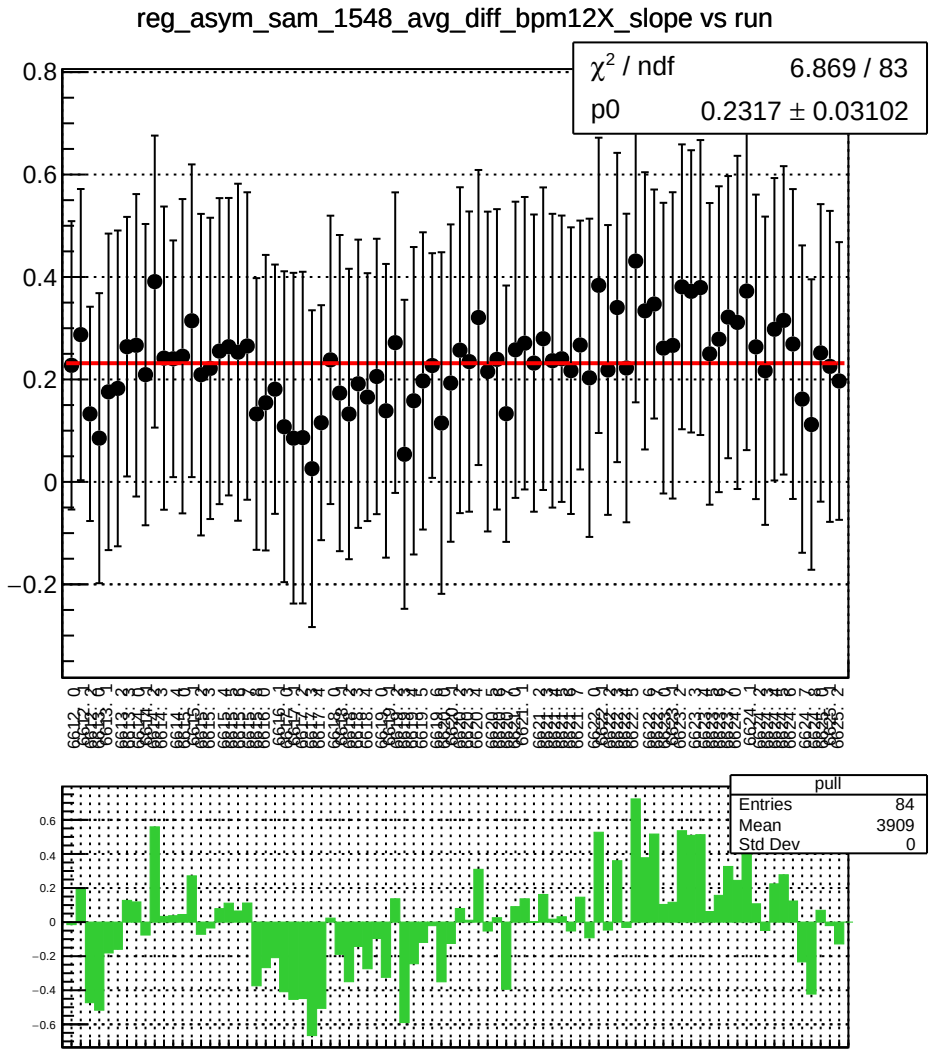

pull1D
Entries 84
Mean 0.0007953
Std Dev 0.8018

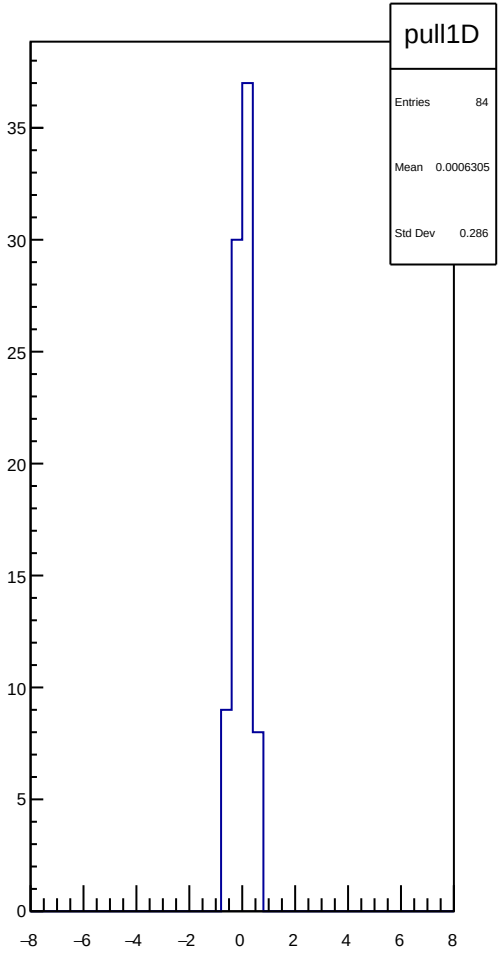

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.26 / 83
p0 −4.399 ± 0.5249
pull
Entries 84
Mean 107.7
Std Dev 20.66
pull1D
Entries 84
Mean −0.0238
Std Dev 0.7255

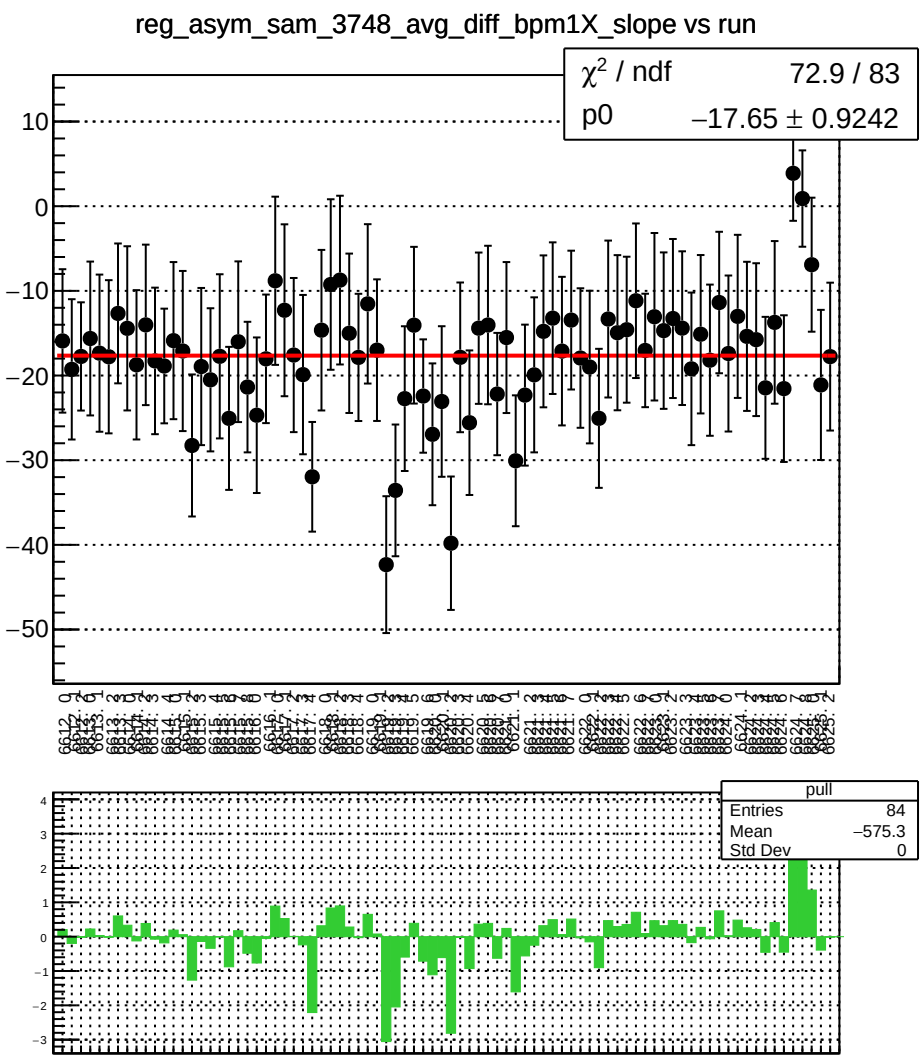

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.67 / 83
p0 −42.03 ± 0.7466
pull
Entries 84
Mean 734.8
Std Dev 0

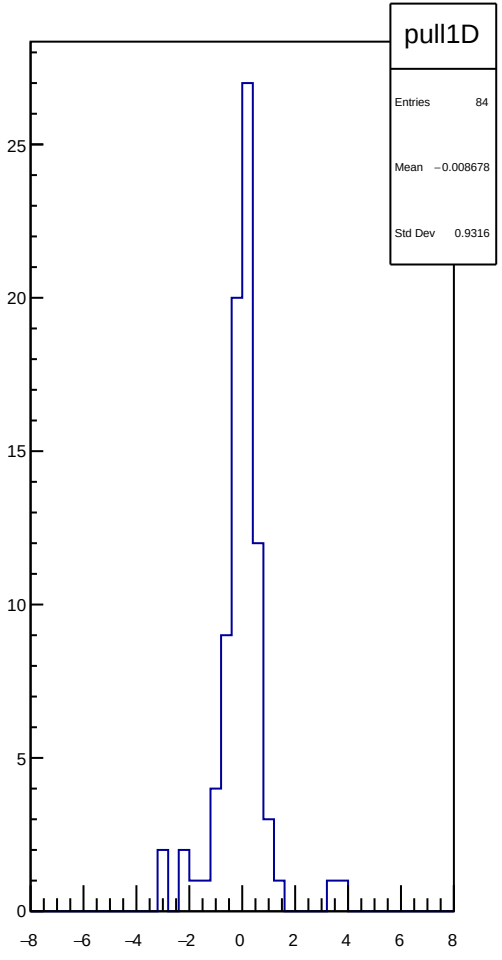

pull1D
Entries 84
Mean −0.004856
Std Dev 0.8067

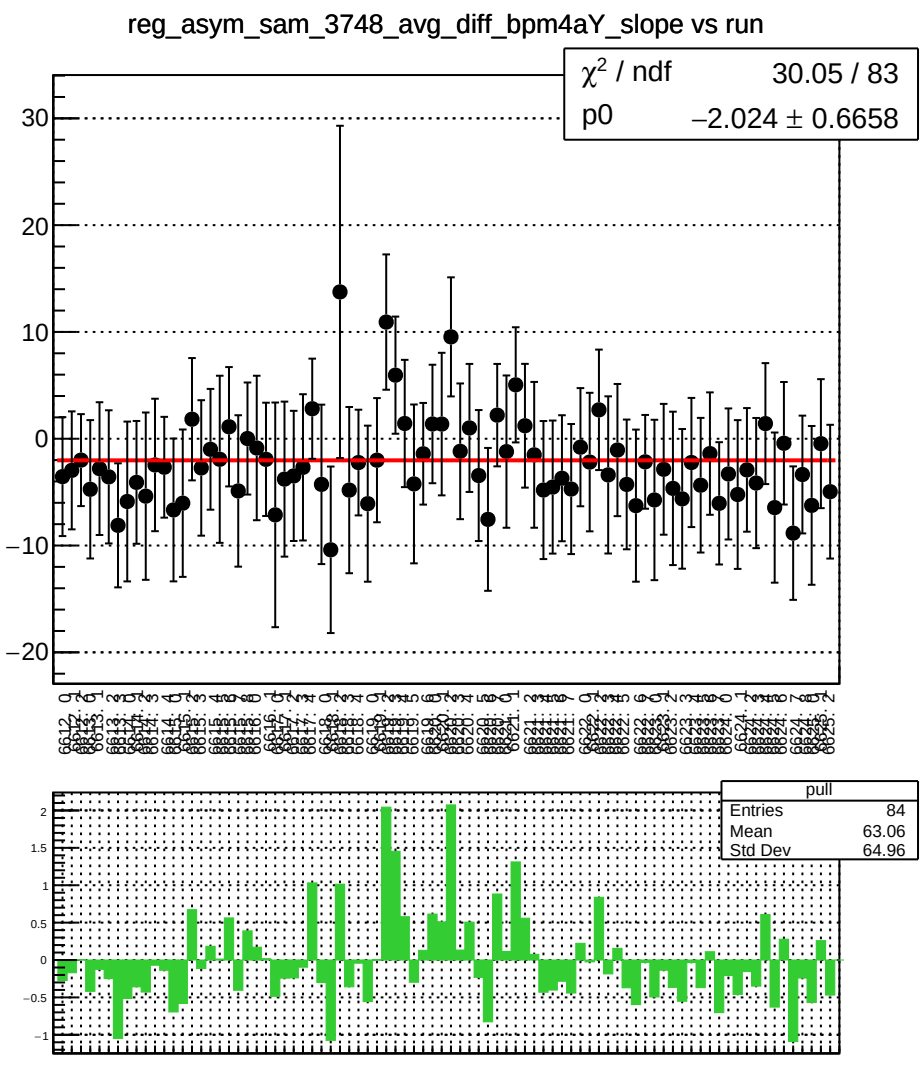

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 57.88 / 83
p0 93.46 ± 0.6215
110
100
90
80
70
pull
Entries 84
Mean 128
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.02566
Std Dev 0.8297
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

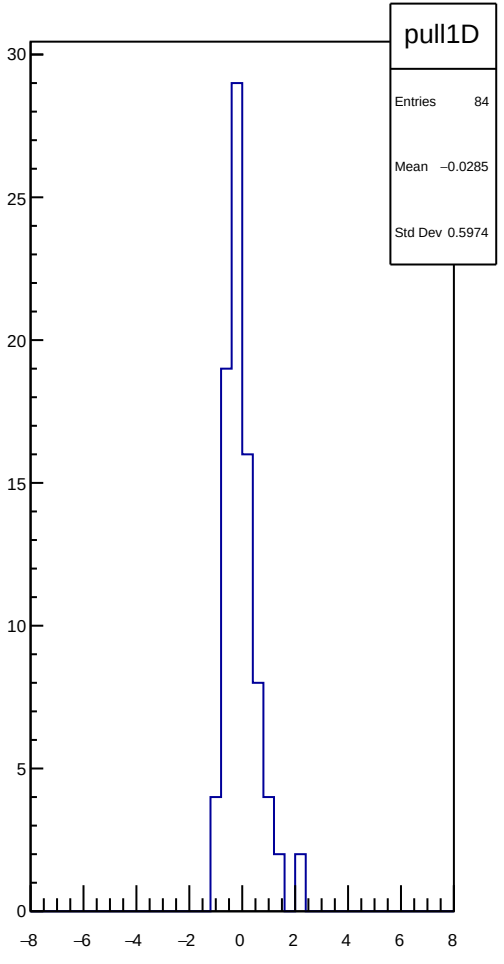

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 6.869 / 83
p0 0.2317 ± 0.03102
pull
Entries 84
Mean 3909
Std Dev 0

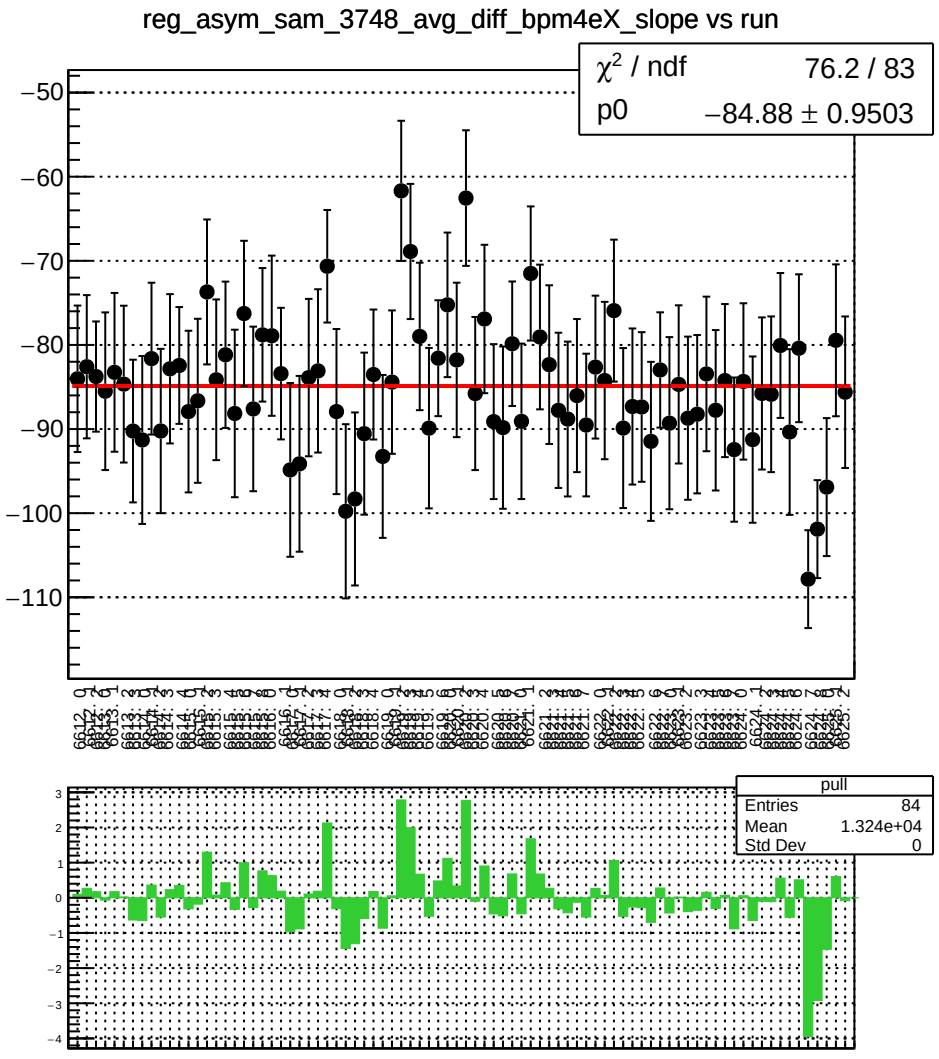

pull1D
Entries 84
Mean 0.0006305
Std Dev 0.286

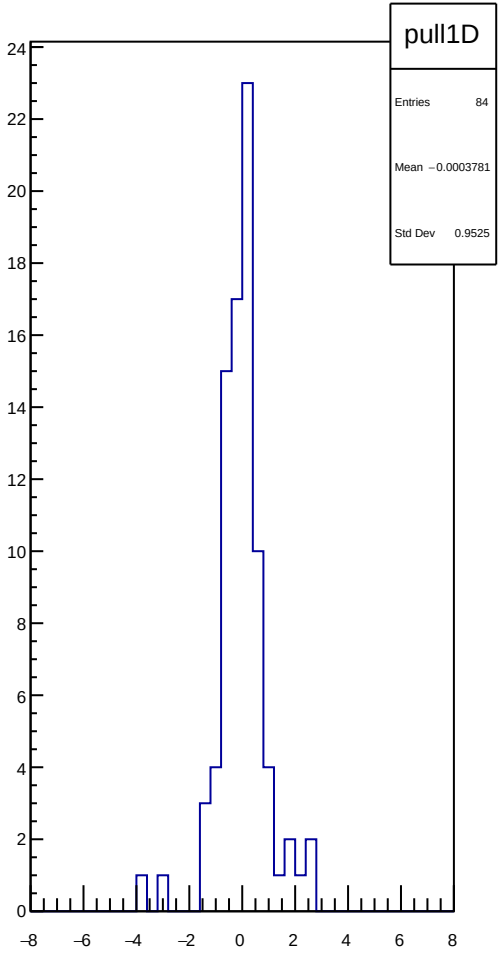

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 72.9 / 83
p0 −17.65 ± 0.9242
pull
Entries 84
Mean −575.3
Std Dev 0

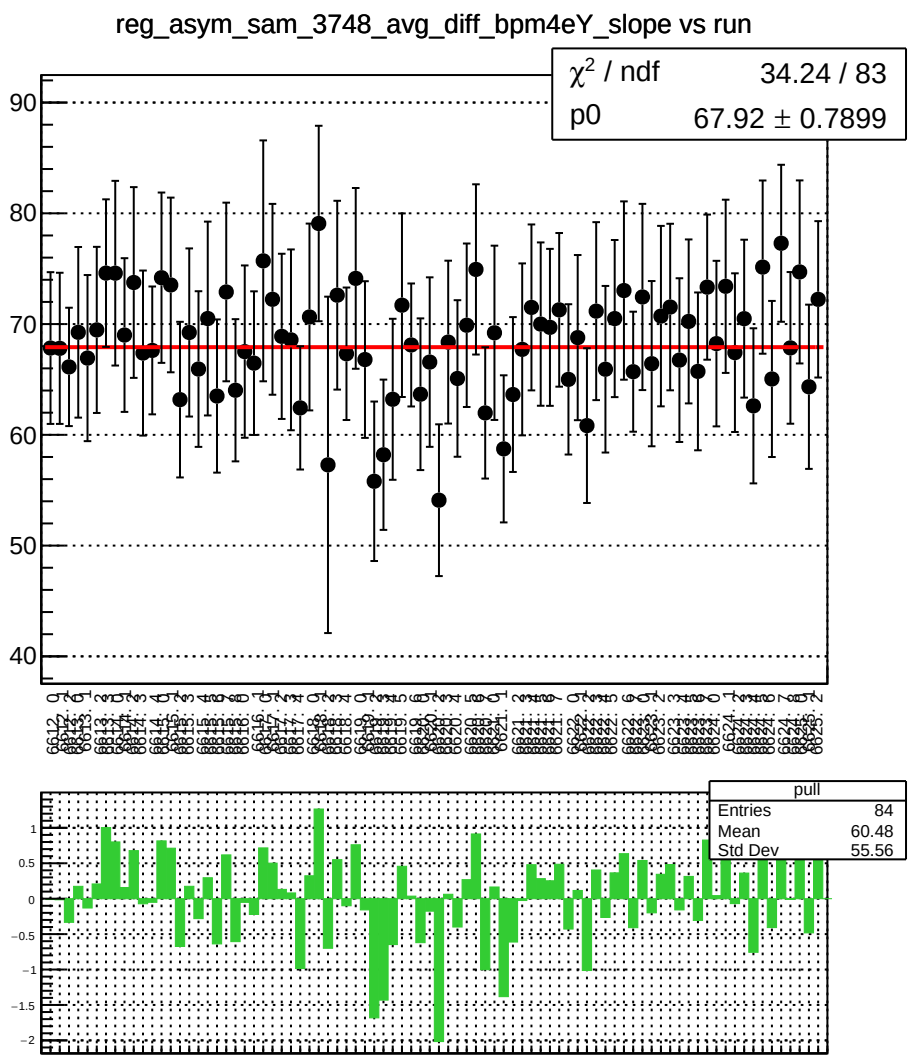

pull1D
Entries 84
Mean −0.008678
Std Dev 0.9316

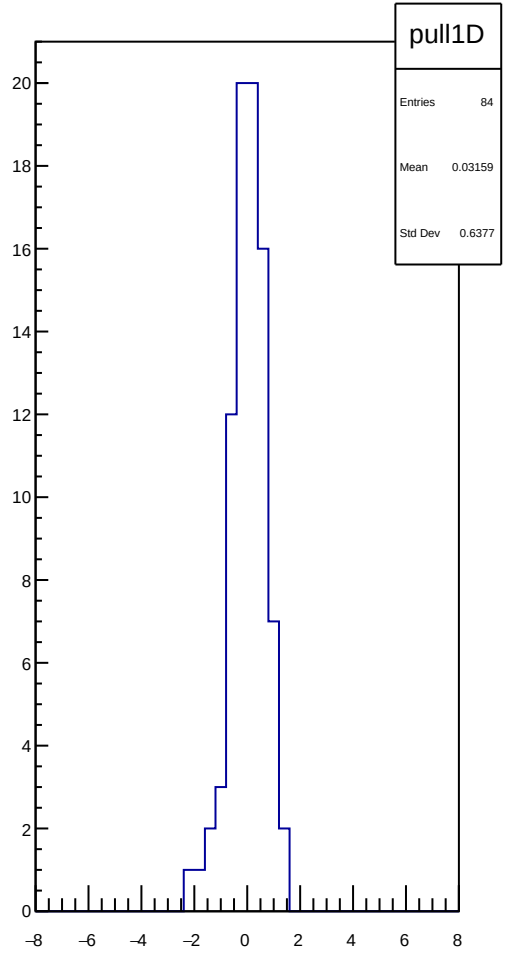

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.05 / 83
p0 −2.024 ± 0.6658
pull
Entries 84
Mean 63.06
Std Dev 64.96

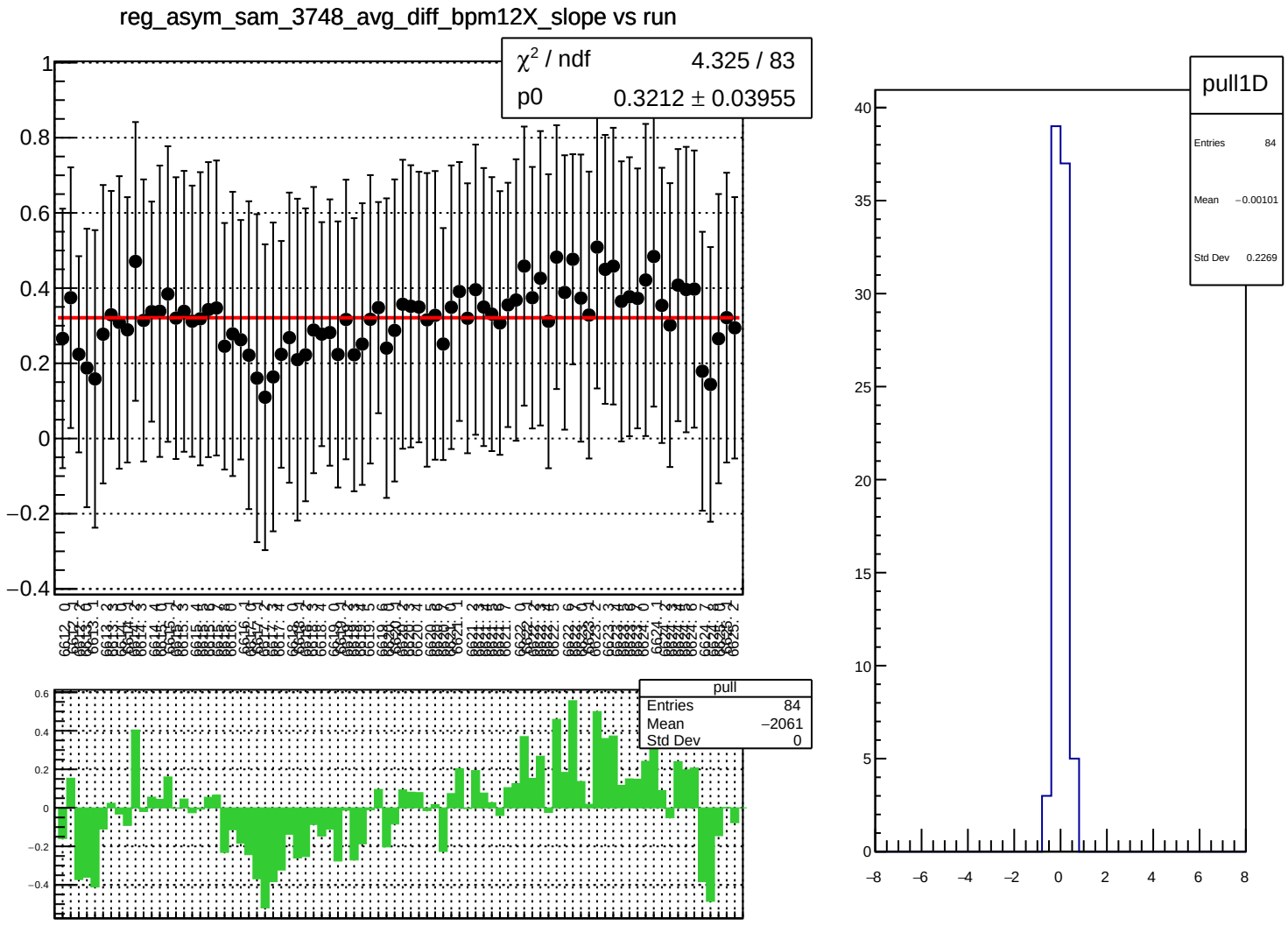

pull1D
Entries 84
Mean −0.0285
Std Dev 0.5974

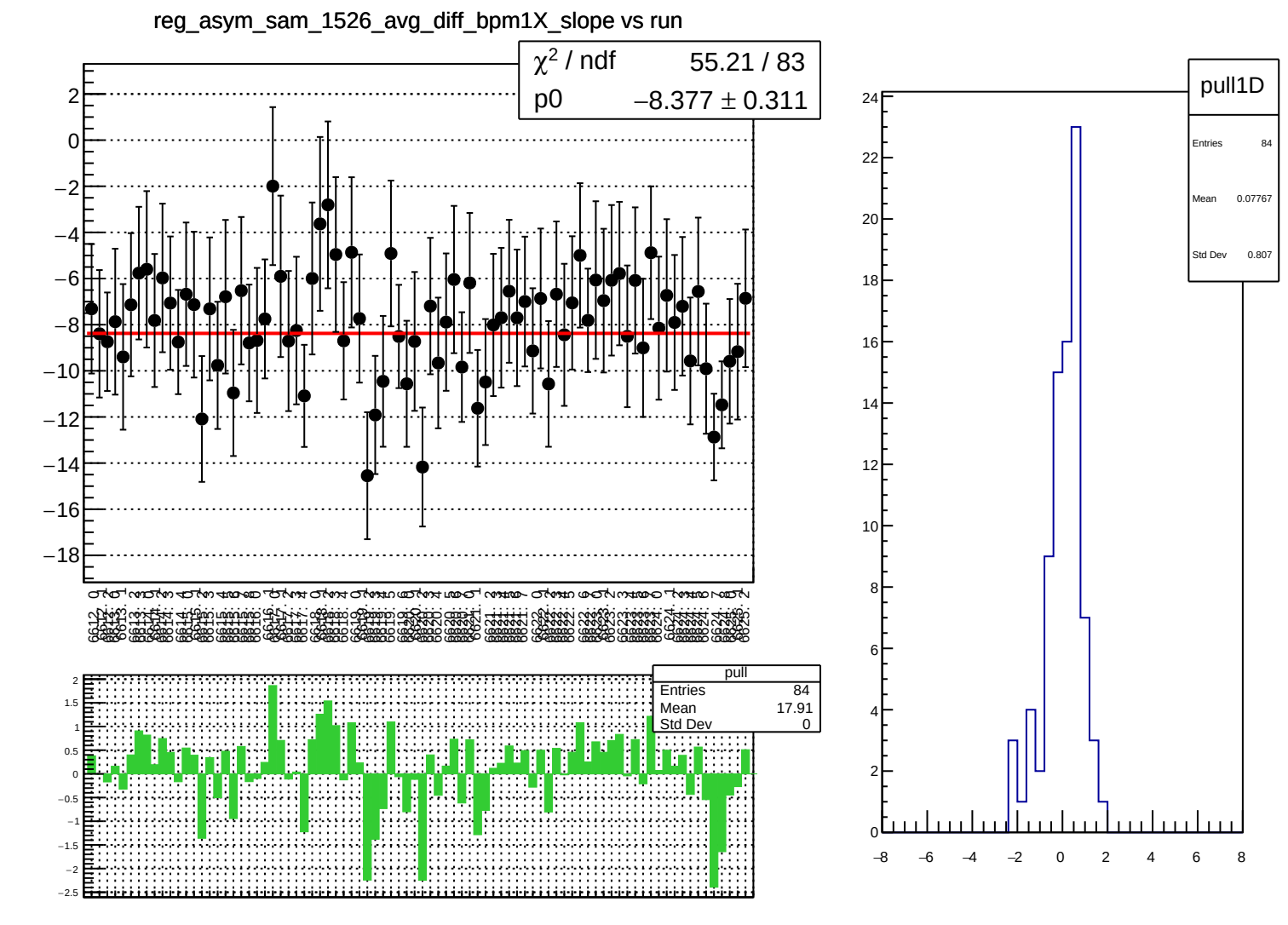

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 76.2 / 83
p0 −84.88 ± 0.9503
pull
Entries 84
Mean 1.324e+04
Std Dev 0

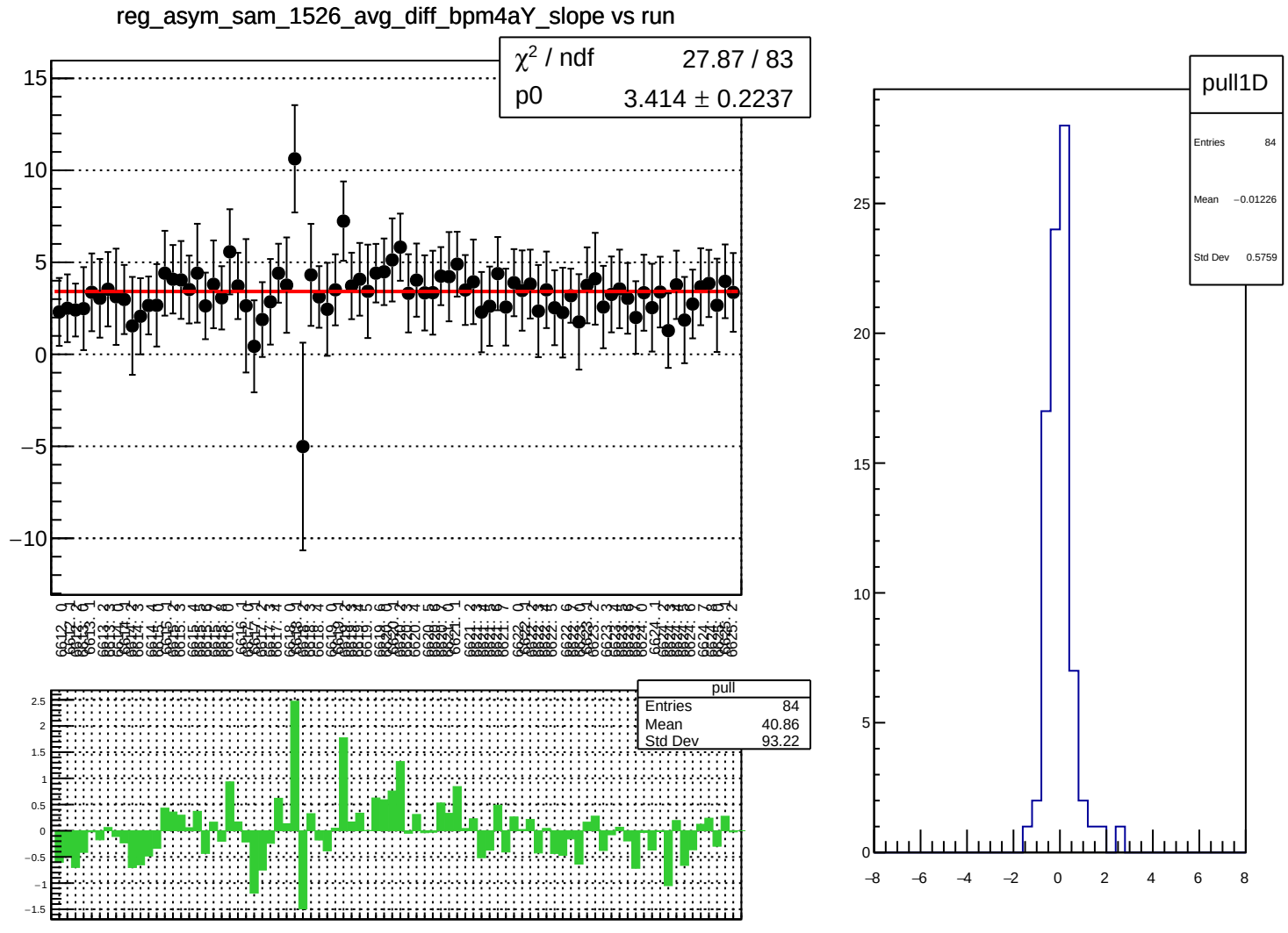

pull1D
Entries 84
Mean −0.0003781
Std Dev 0.9525

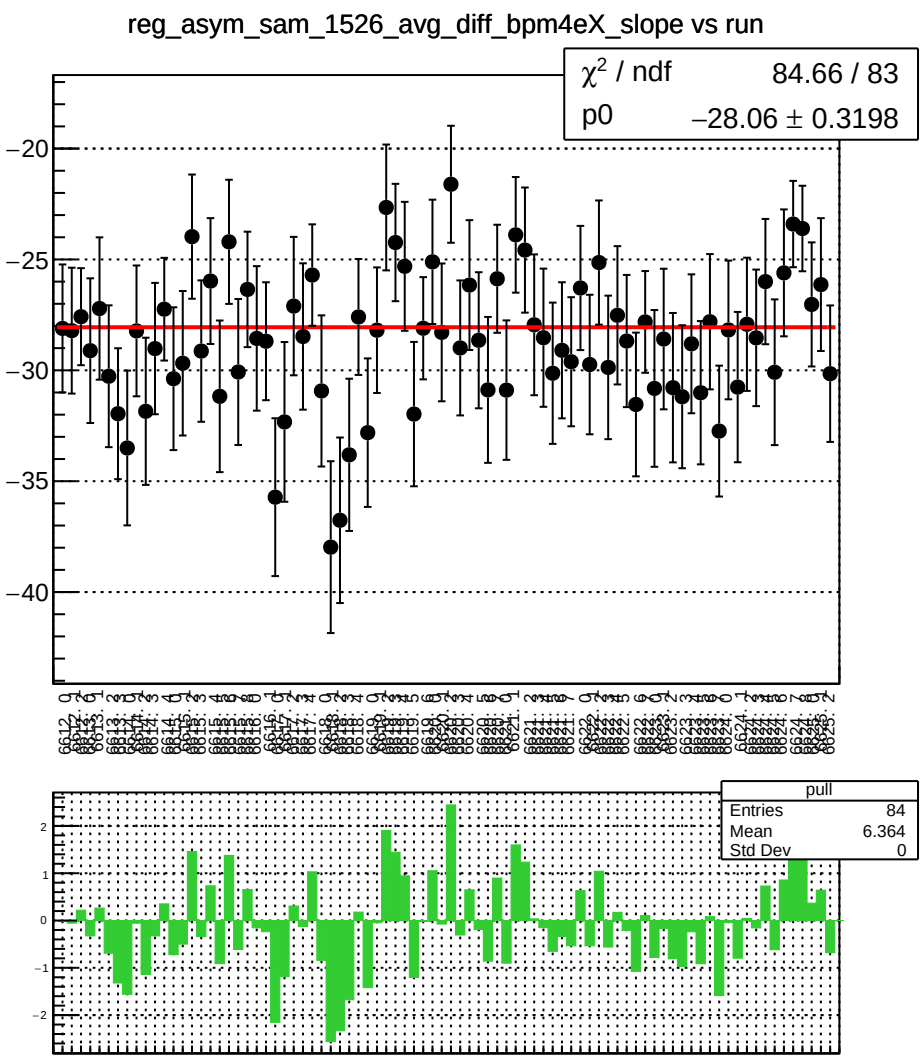

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 34.24 / 83
p0 67.92 ± 0.7899
90
80
70
60
50
40
pull
Entries 84
Mean 60.48
Std Dev 55.56
1
0.5
0
−0.5
−1
−1.5
−2

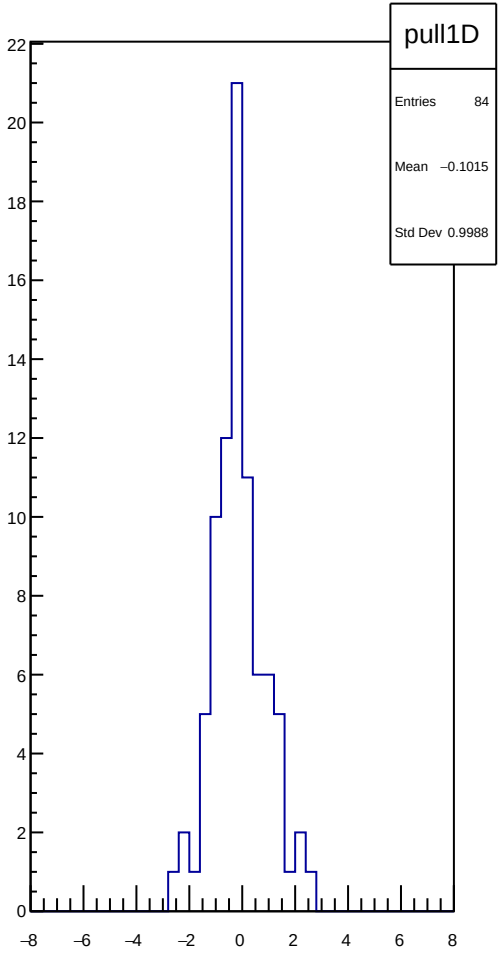

pull1D
Entries 84
Mean 0.03159
Std Dev 0.6377
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

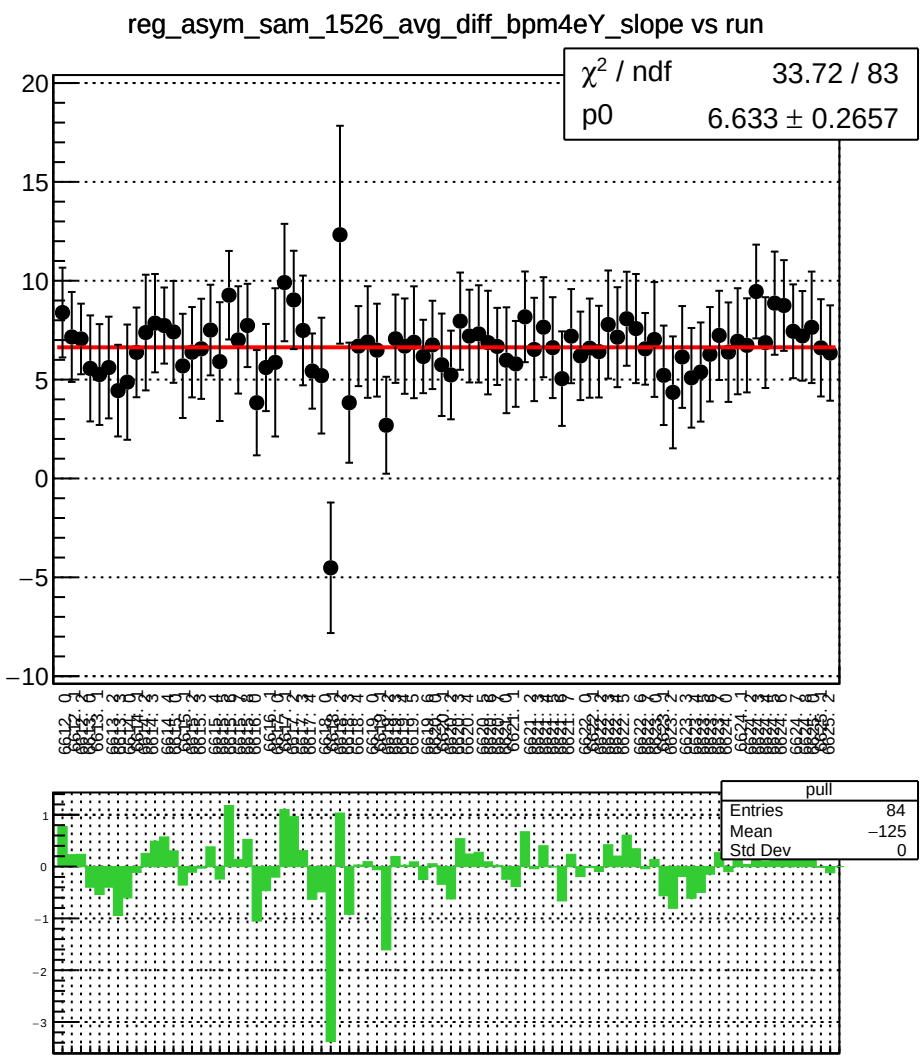

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 4.325 / 83
p0 0.3212 ± 0.03955
pull
Entries 84
Mean −2061
Std Dev 0
pull1D
Entries 84
Mean −0.00101
Std Dev 0.2269

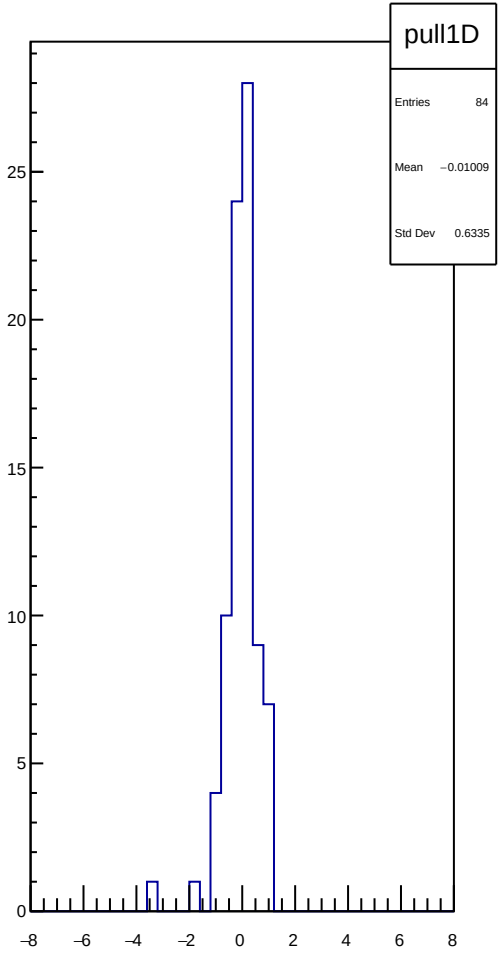

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 55.21 / 83
p0 −8.377 ± 0.311
pull
Entries 84
Mean 17.91
Std Dev 0
pull1D
Entries 84
Mean 0.07767
Std Dev 0.807

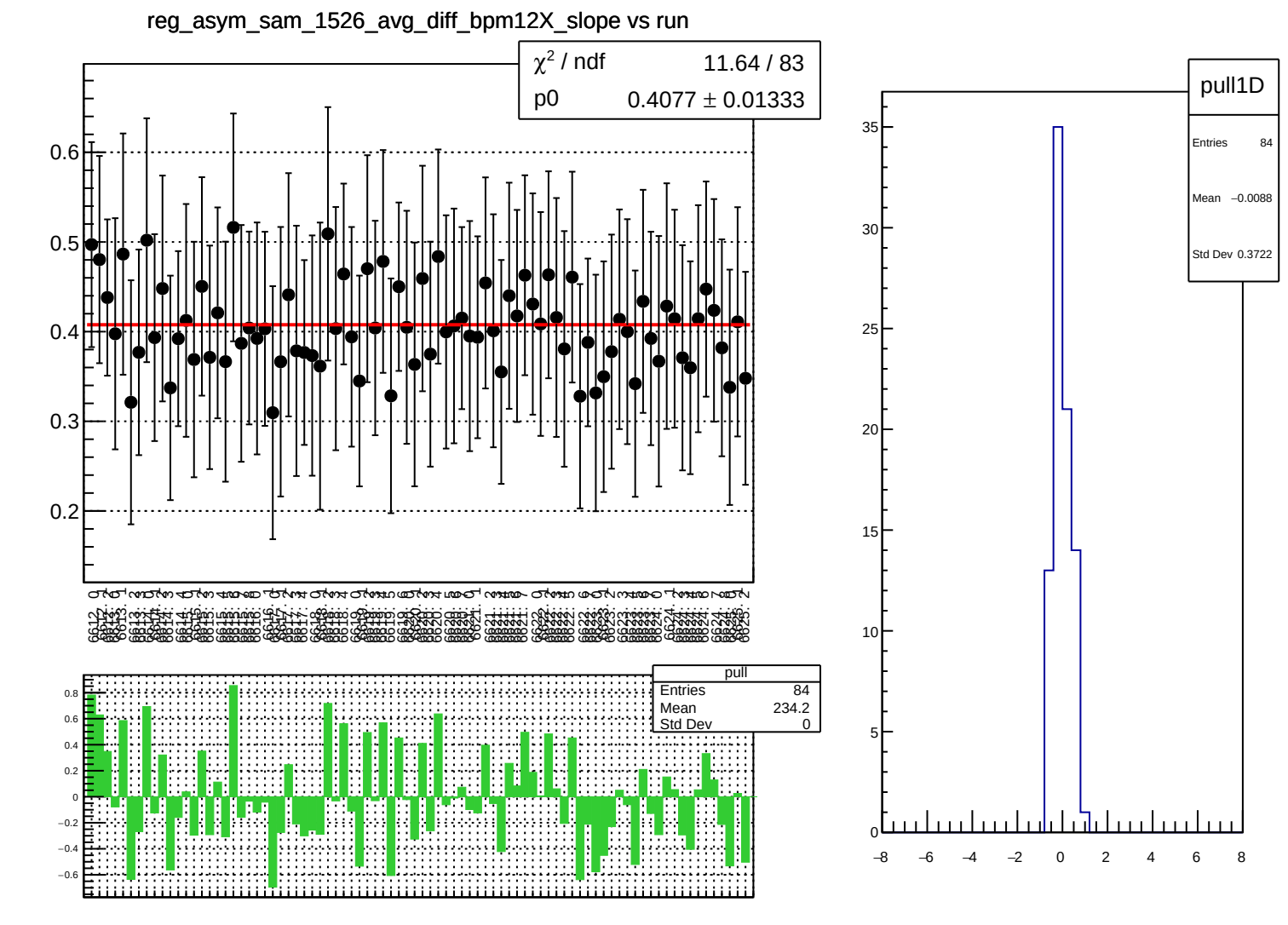

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.87 / 83
p0 3.414 ± 0.2237
pull
Entries 84
Mean 40.86
Std Dev 93.22
pull1D
Entries 84
Mean −0.01226
Std Dev 0.5759

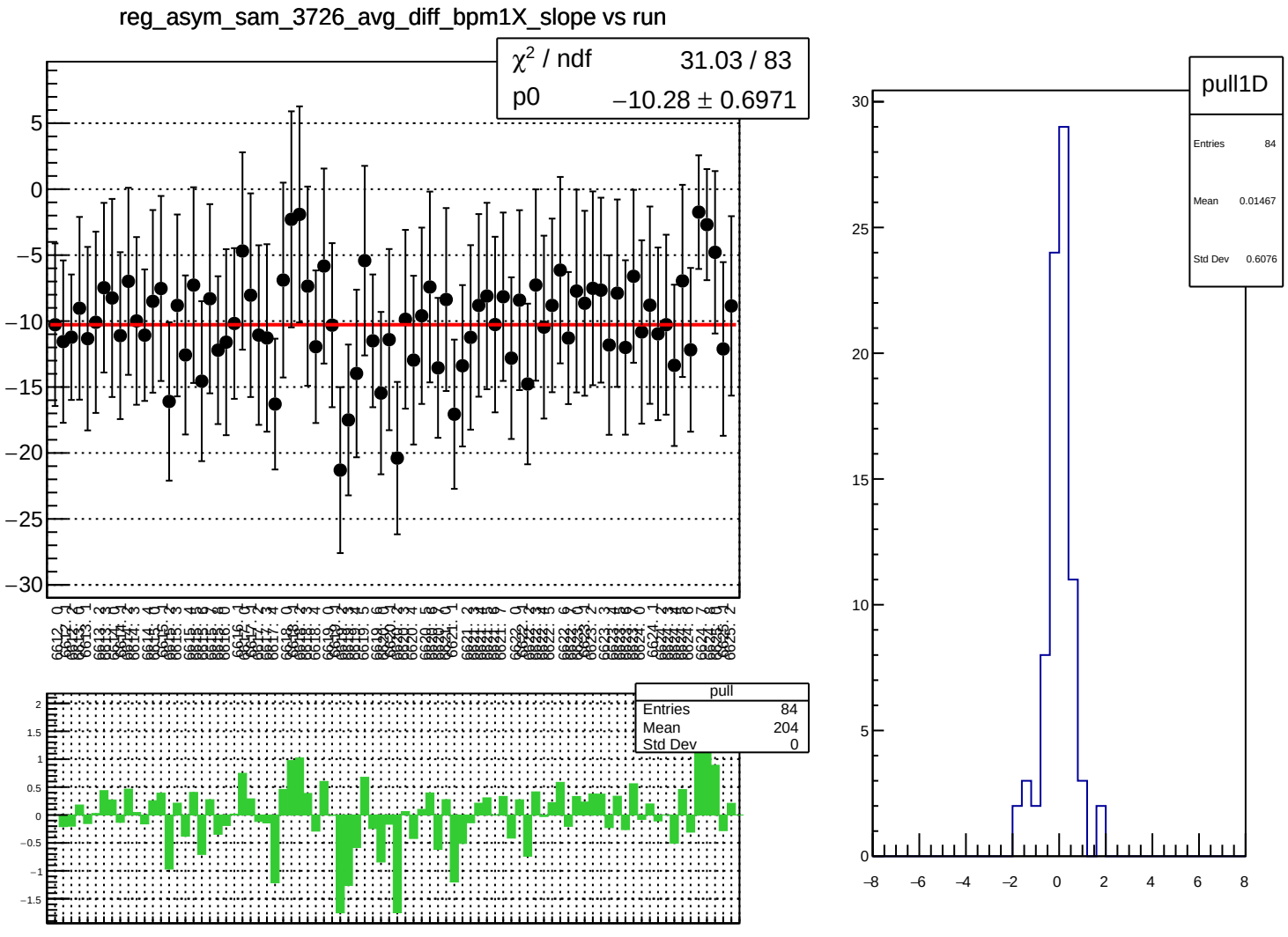

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.66 / 83
p0 −28.06 ± 0.3198
pull
Entries 84
Mean 6.364
Std Dev 0

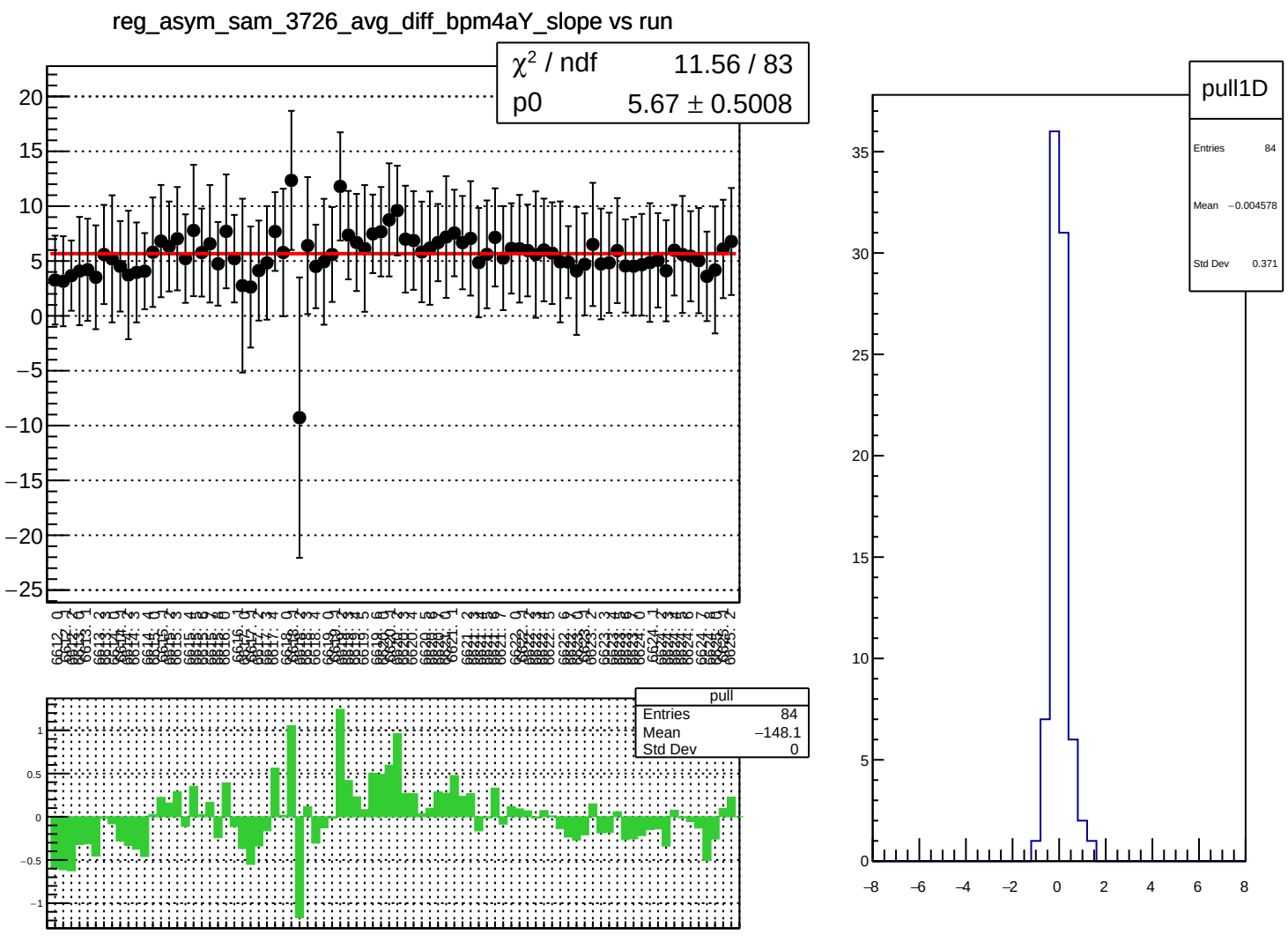

pull1D
Entries 84
Mean −0.1015
Std Dev 0.9988

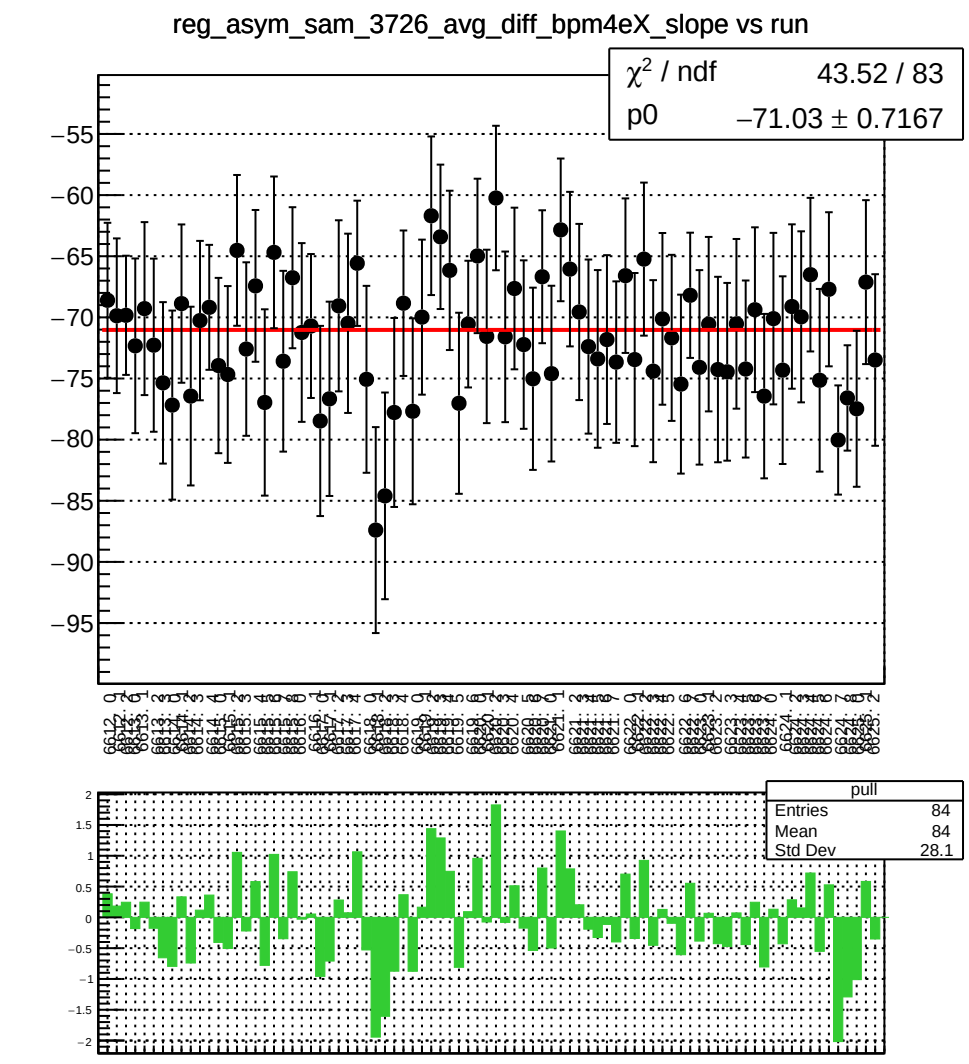

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.72 / 83
p0 6.633 ± 0.2657
pull
Entries 84
Mean −125
Std Dev 0

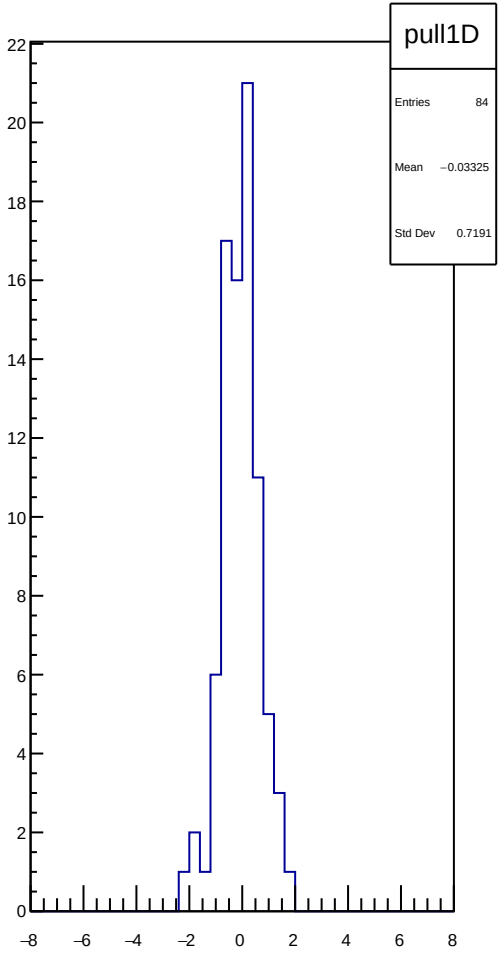

pull1D
Entries 84
Mean −0.01009
Std Dev 0.6335

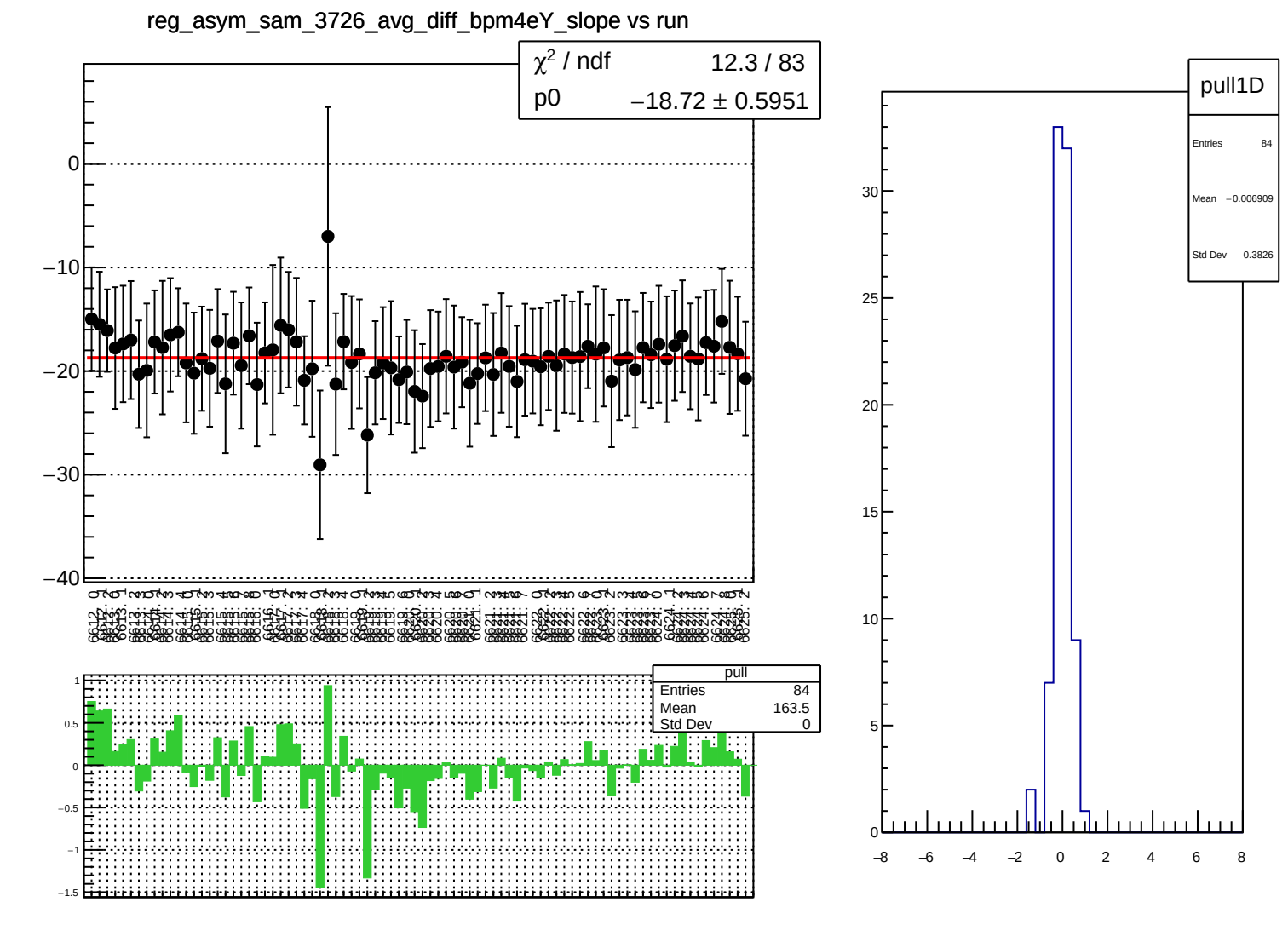

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 11.64 / 83
p0 0.4077 ± 0.01333
pull
Entries 84
Mean 234.2
Std Dev 0
pull1D
Entries 84
Mean −0.0088
Std Dev 0.3722

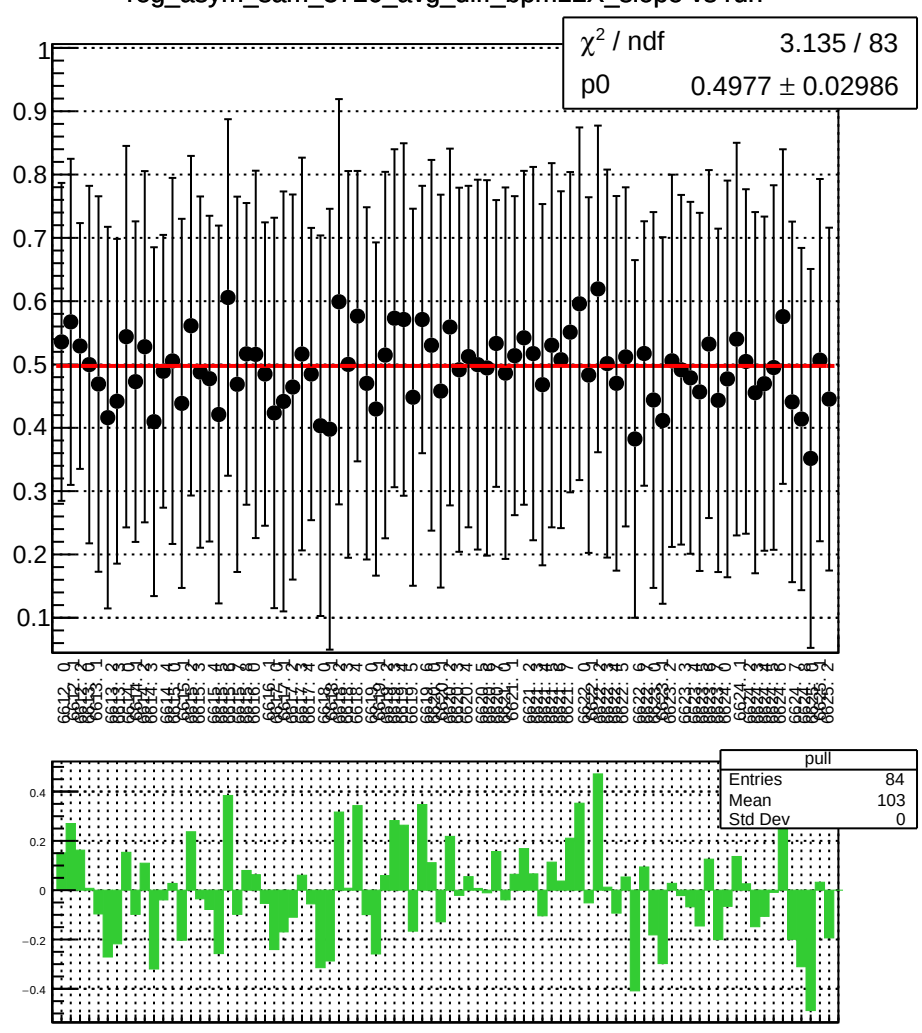

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 31.03 / 83
p0 −10.28 ± 0.6971
pull
Entries 84
Mean 204
Std Dev 0
pull1D
Entries 84
Mean 0.01467
Std Dev 0.6076

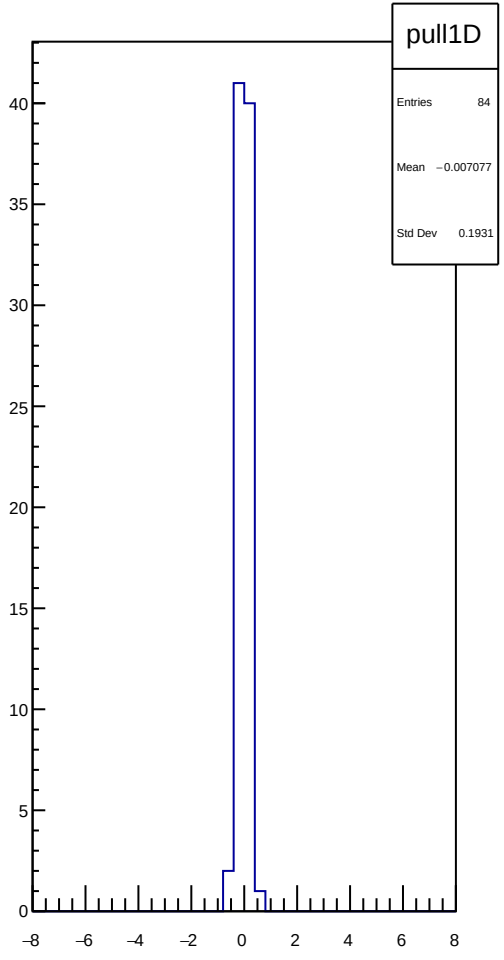

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.56 / 83
p0 5.67 ± 0.5008
pull
Entries 84
Mean −148.1
Std Dev 0
pull1D
Entries 84
Mean −0.004578
Std Dev 0.371

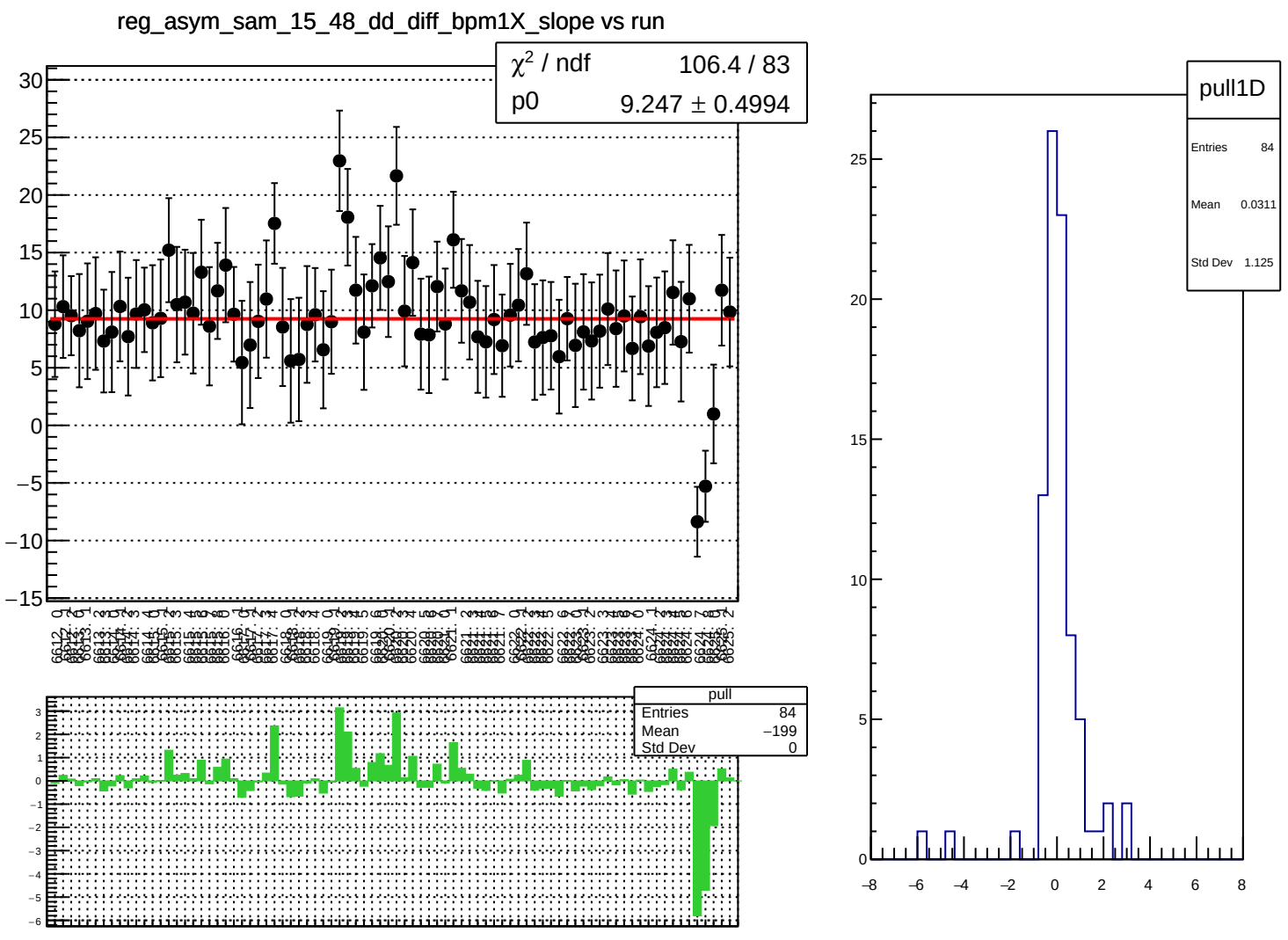

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.52 / 83
p0 −71.03 ± 0.7167
pull
Entries 84
Mean 84
Std Dev 28.1

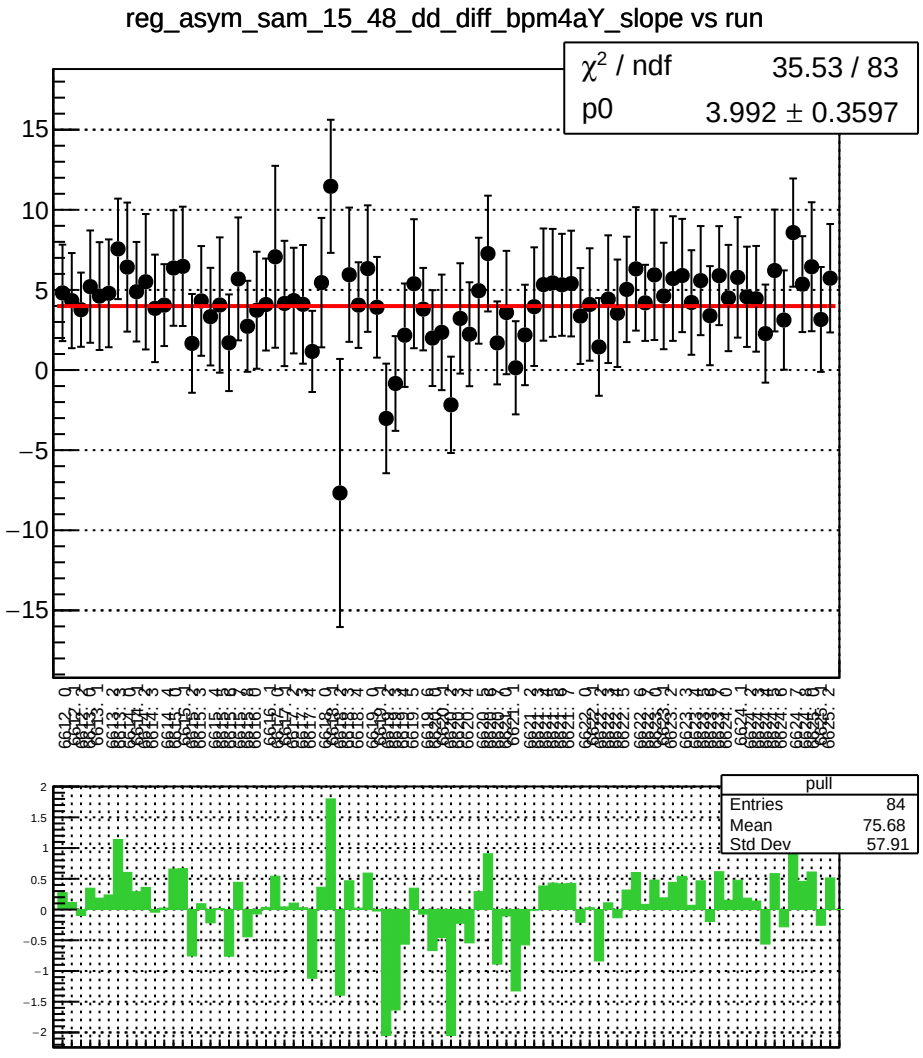

pull1D
Entries 84
Mean −0.03325
Std Dev 0.7191

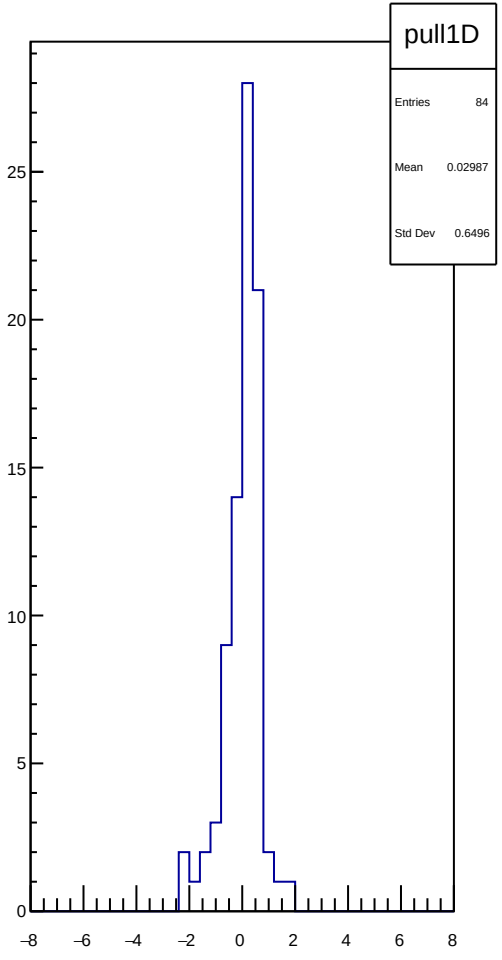

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.3 / 83
p0 −18.72 ± 0.5951
pull
Entries 84
Mean 163.5
Std Dev 0
pull1D
Entries 84
Mean −0.006909
Std Dev 0.3826

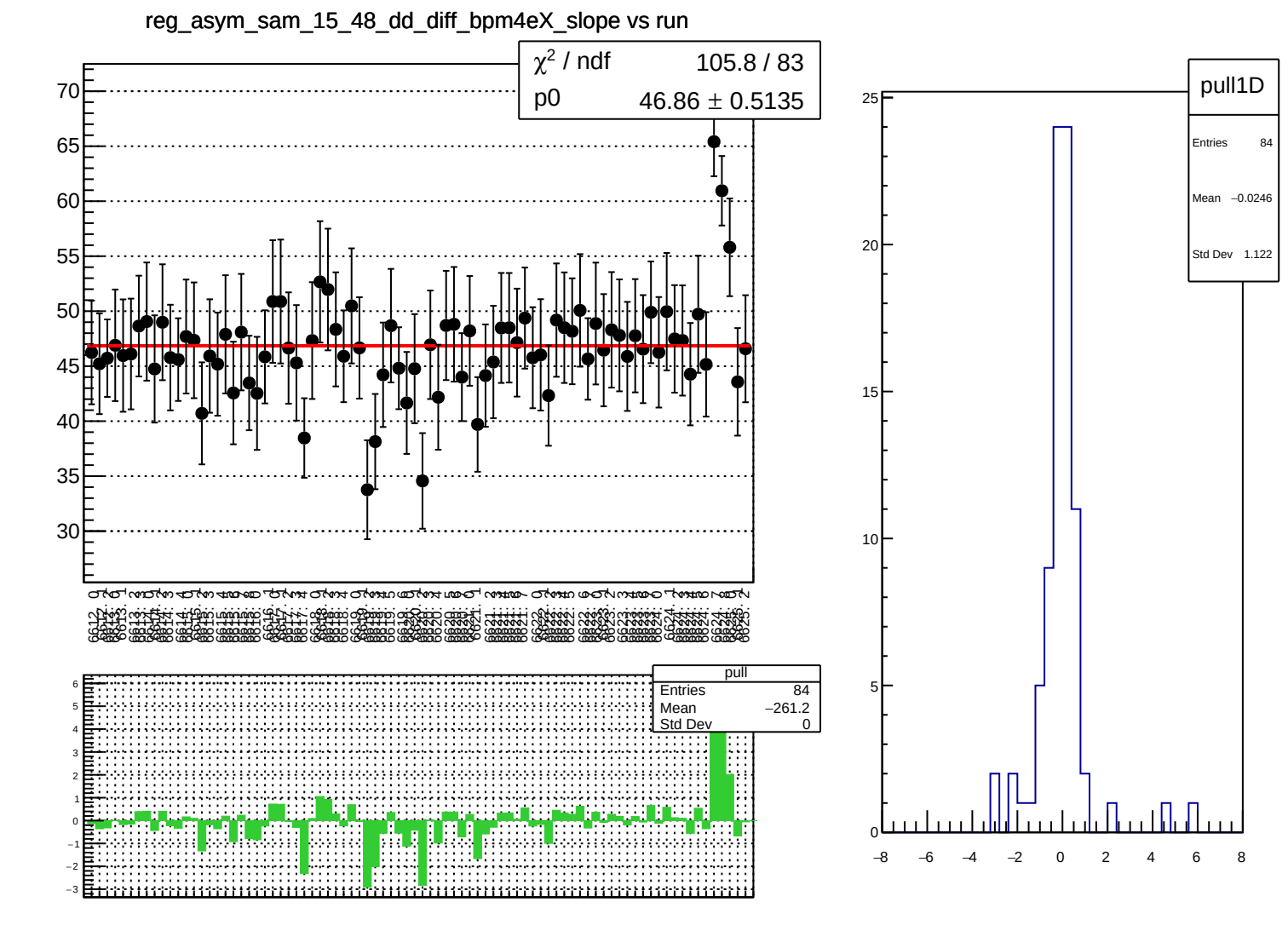

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 3.135 / 83
p0 0.4977 ± 0.02986
pull
Entries 84
Mean 103
Std Dev 0

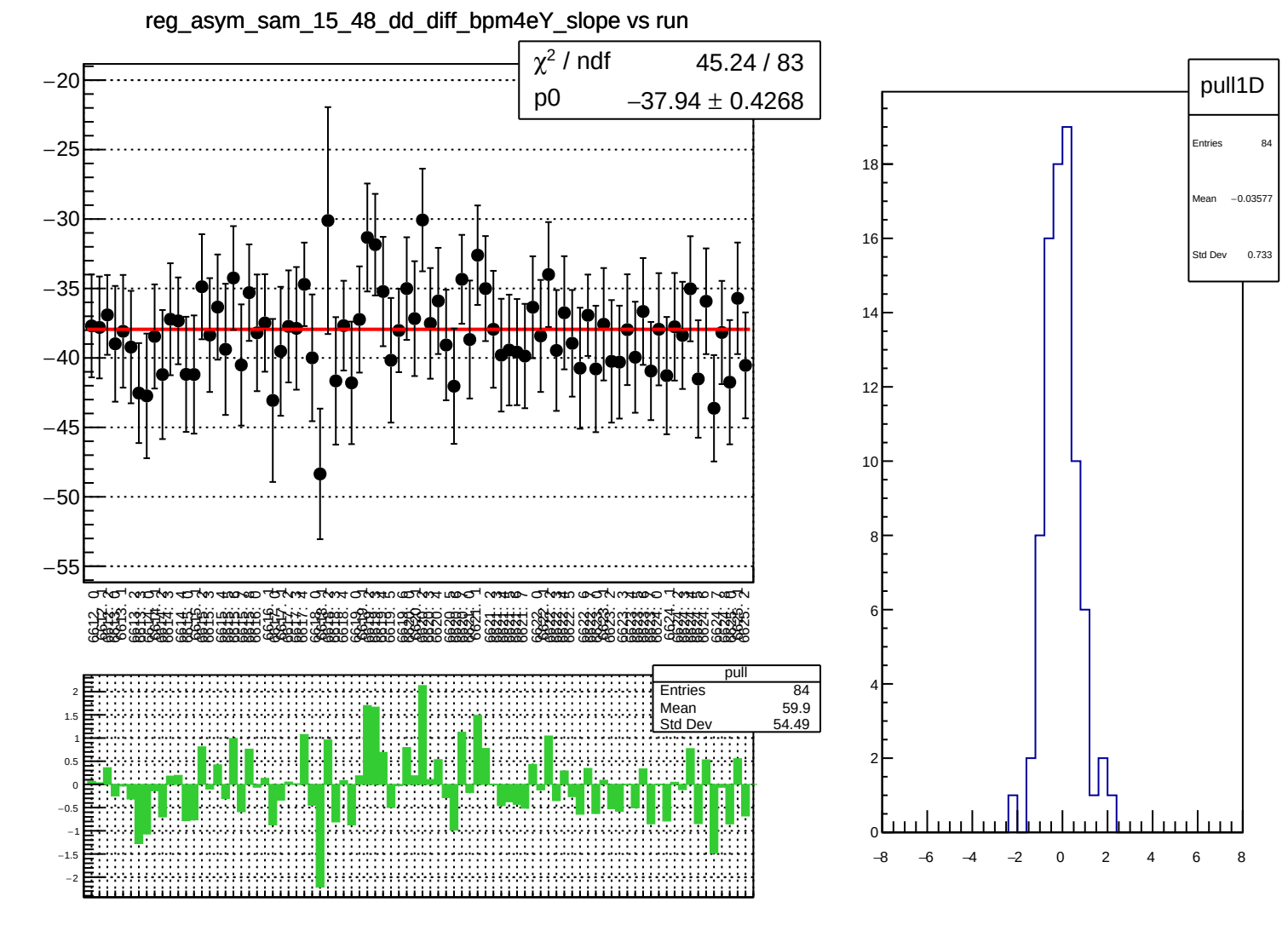

pull1D
Entries 84
Mean −0.007077
Std Dev 0.1931

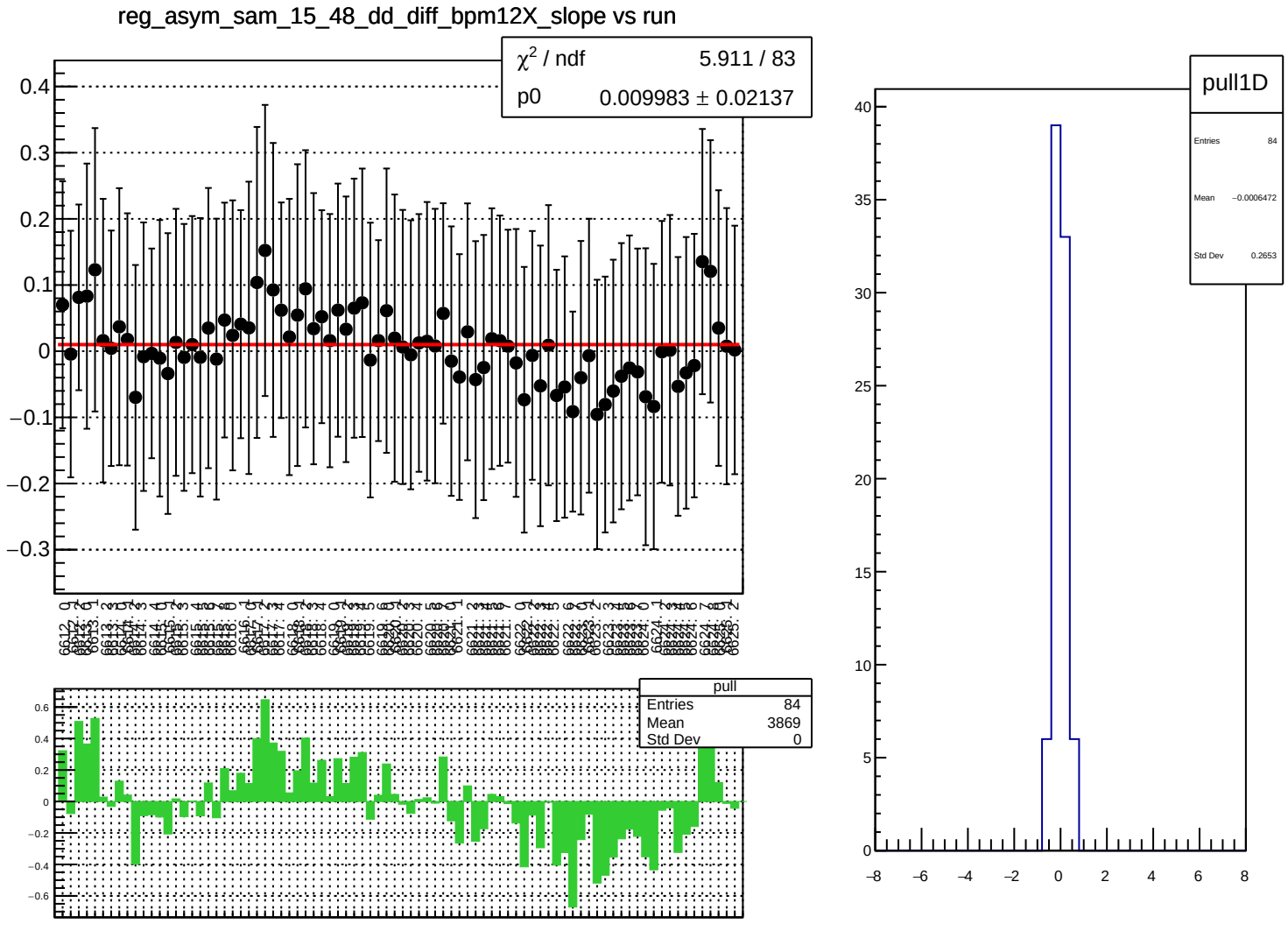

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 106.4 / 83
p0 9.247 ± 0.4994
pull
Entries 84
Mean −199
Std Dev 0
pull1D
Entries 84
Mean 0.0311
Std Dev 1.125

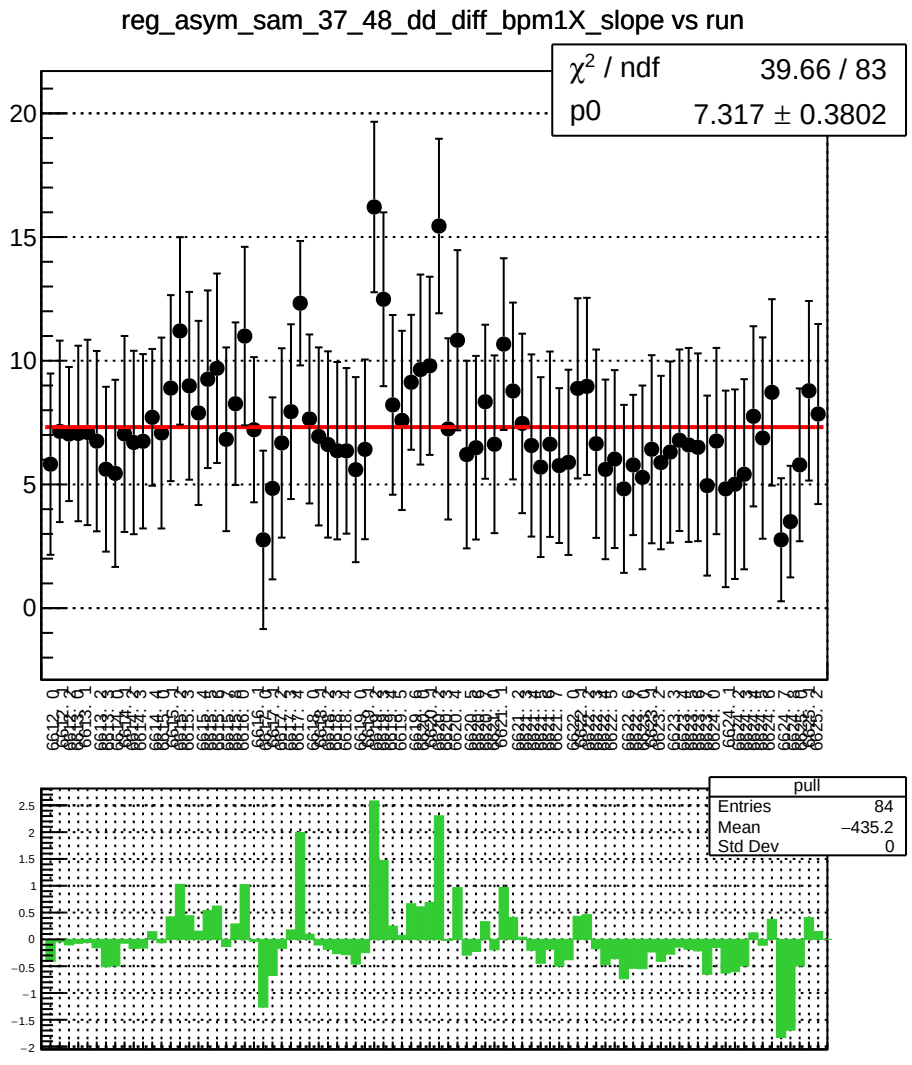

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.53 / 83
p0 3.992 ± 0.3597
pull
Entries 84
Mean 75.68
Std Dev 57.91

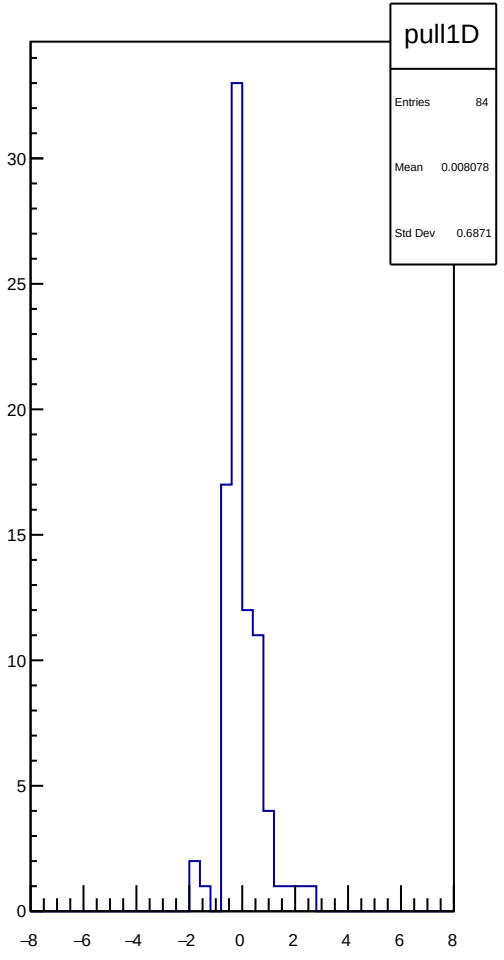

pull1D
Entries 84
Mean 0.02987
Std Dev 0.6496

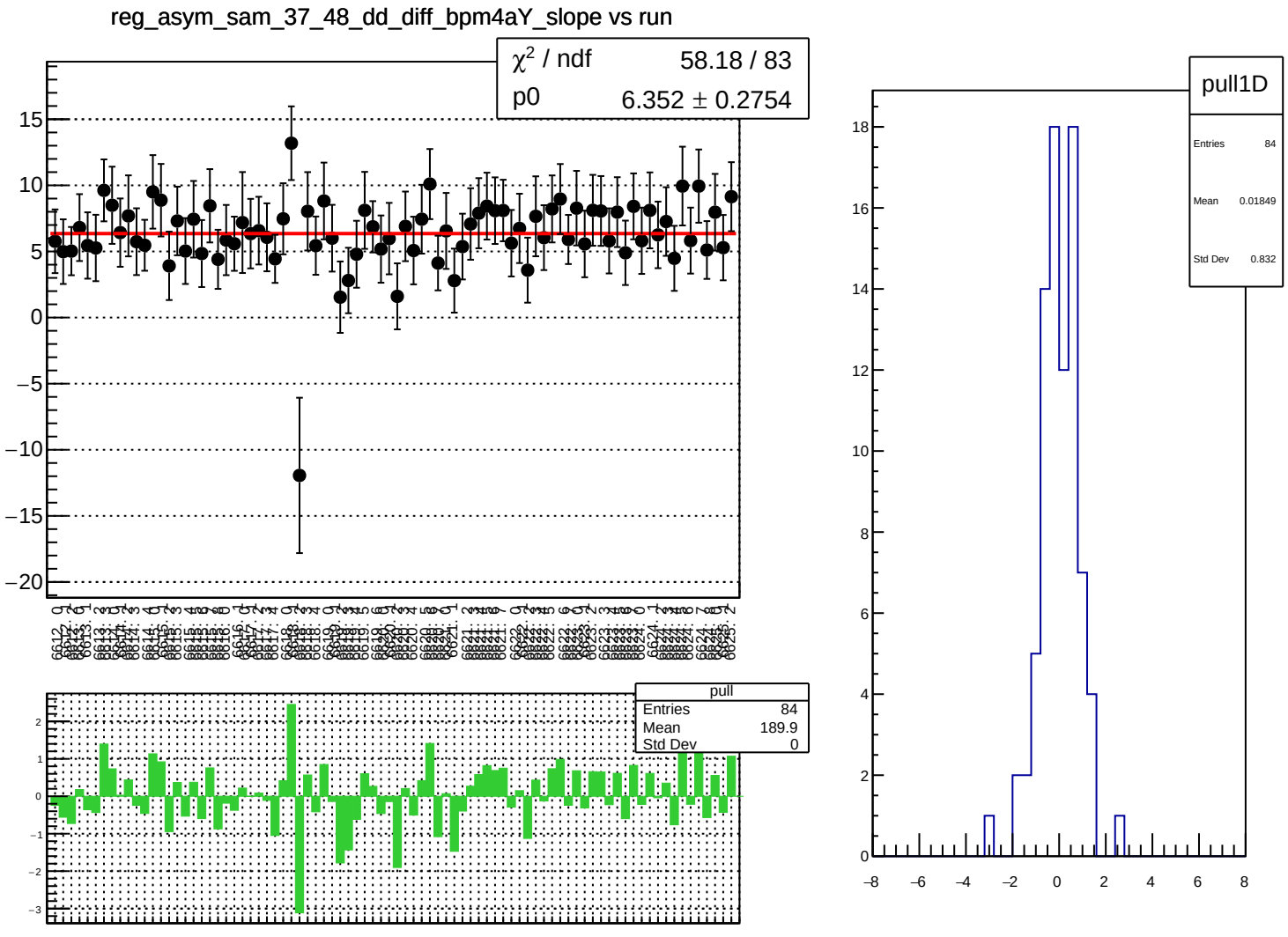

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 105.8 / 83
p0 46.86 ± 0.5135
pull
Entries 84
Mean −261.2
Std Dev 0
pull1D
Entries 84
Mean −0.0246
Std Dev 1.122

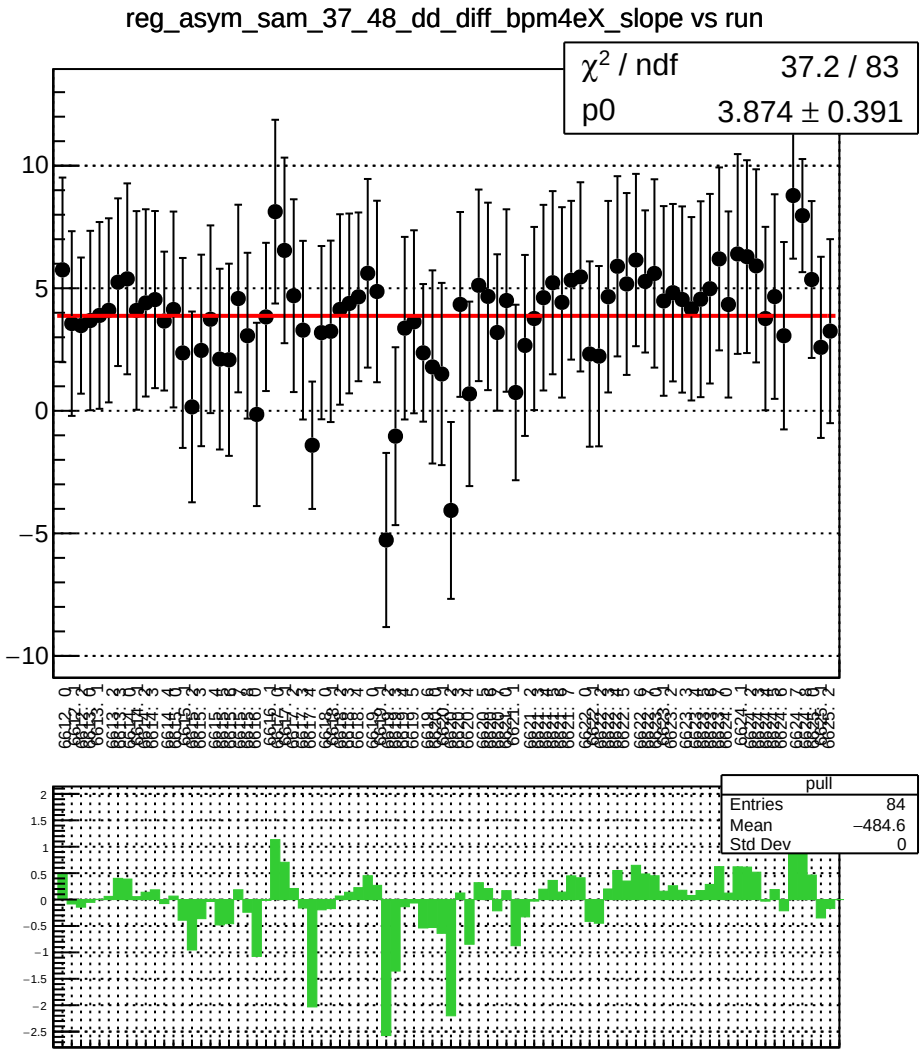

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.24 / 83
p0 −37.94 ± 0.4268
pull
Entries 84
Mean 59.9
Std Dev 54.49
pull1D
Entries 84
Mean −0.03577
Std Dev 0.733

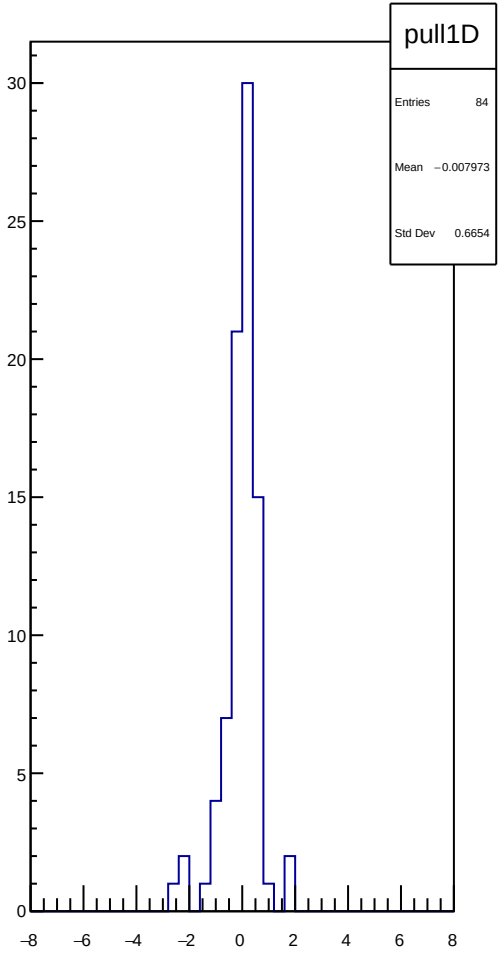

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 5.911 / 83
p0 0.009983 ± 0.02137
pull
Entries 84
Mean 3869
Std Dev 0
pull1D
Entries 84
Mean −0.0006472
Std Dev 0.2653

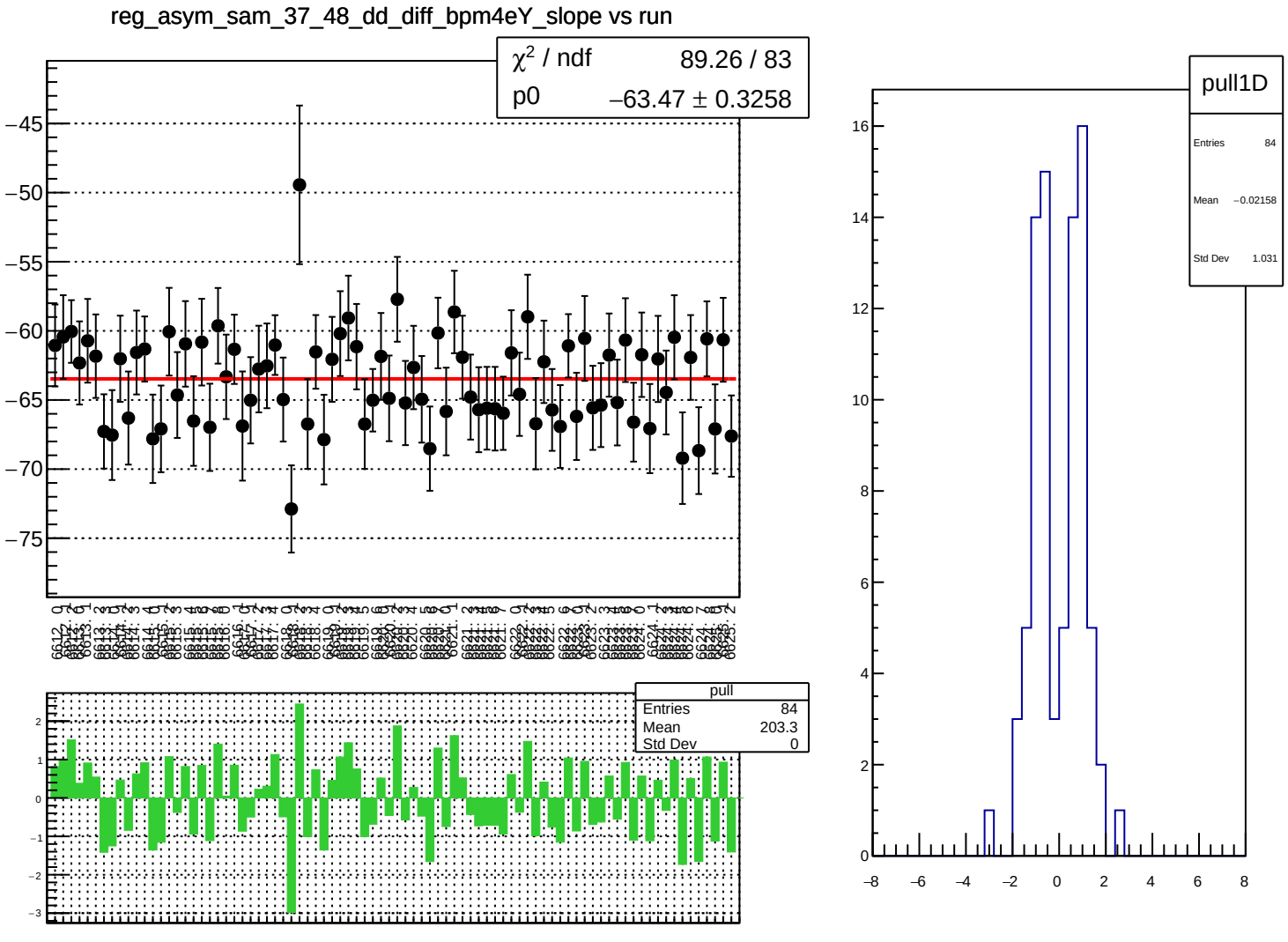

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 39.66 / 83
p0 7.317 ± 0.3802
pull
Entries 84
Mean −435.2
Std Dev 0

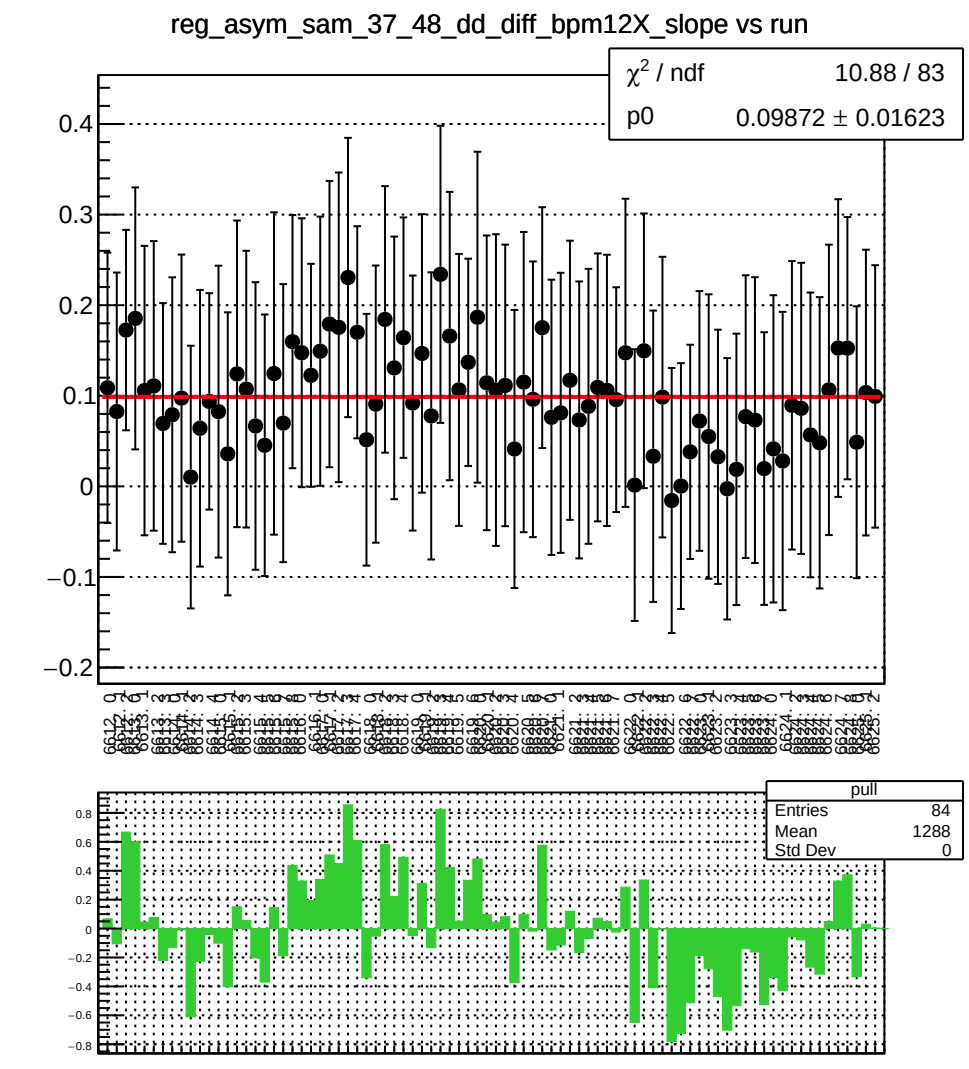

pull1D
Entries 84
Mean 0.008078
Std Dev 0.6871

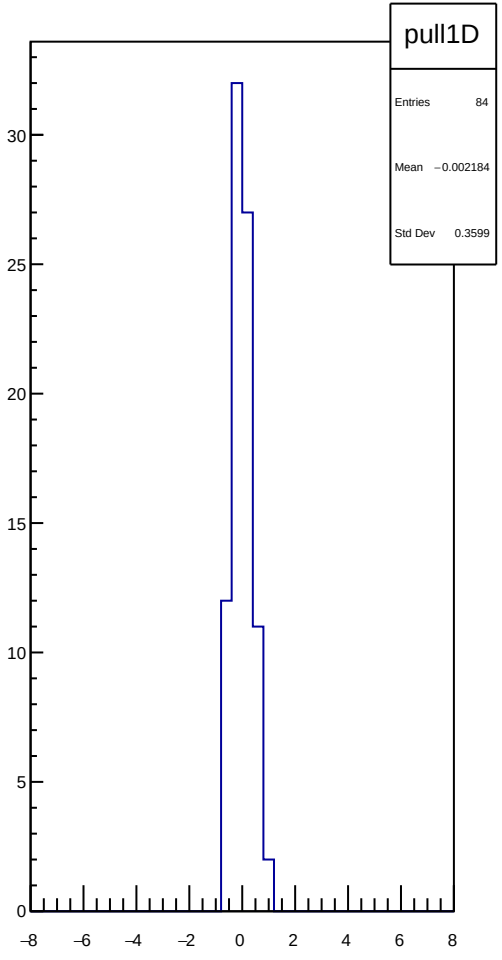

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.18 / 83
p0 6.352 ± 0.2754
pull
Entries 84
Mean 189.9
Std Dev 0
pull1D
Entries 84
Mean 0.01849
Std Dev 0.832

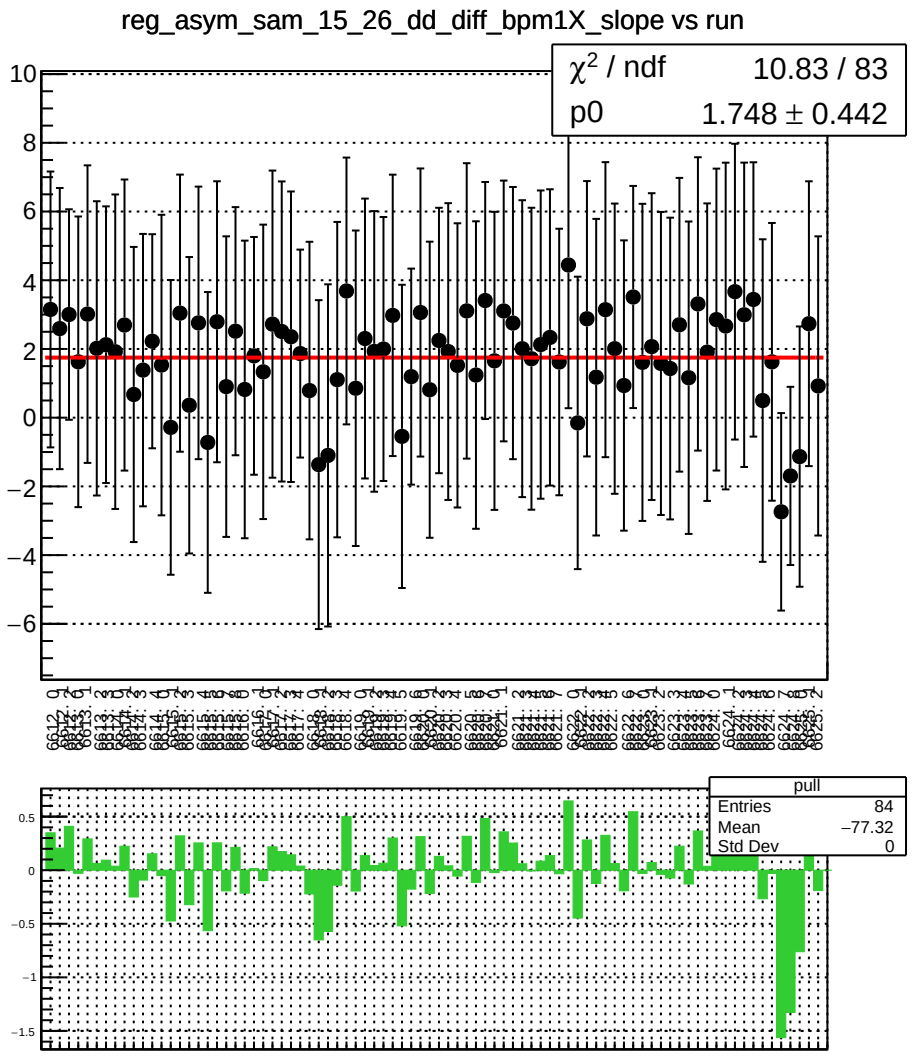

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.2 / 83
p0 3.874 ± 0.391
pull
Entries 84
Mean −484.6
Std Dev 0

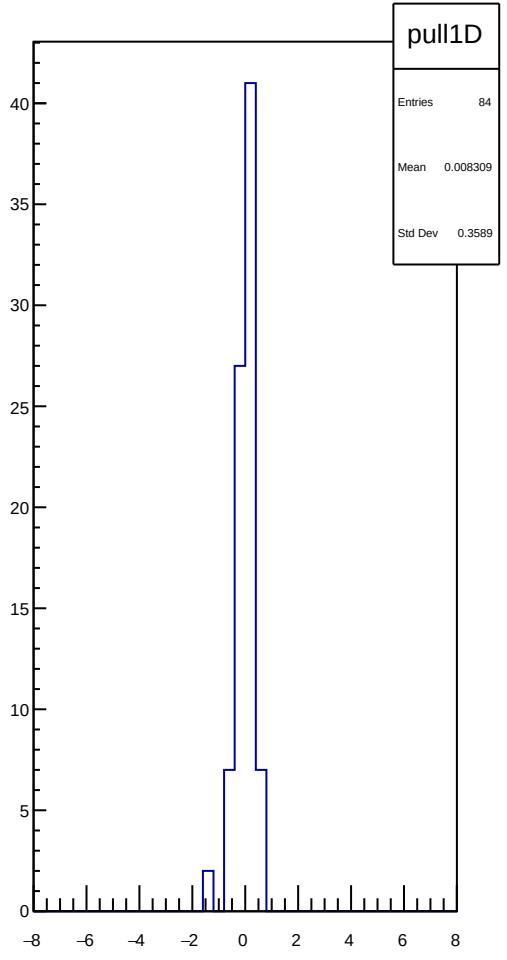

pull1D
Entries 84
Mean −0.007973
Std Dev 0.6654

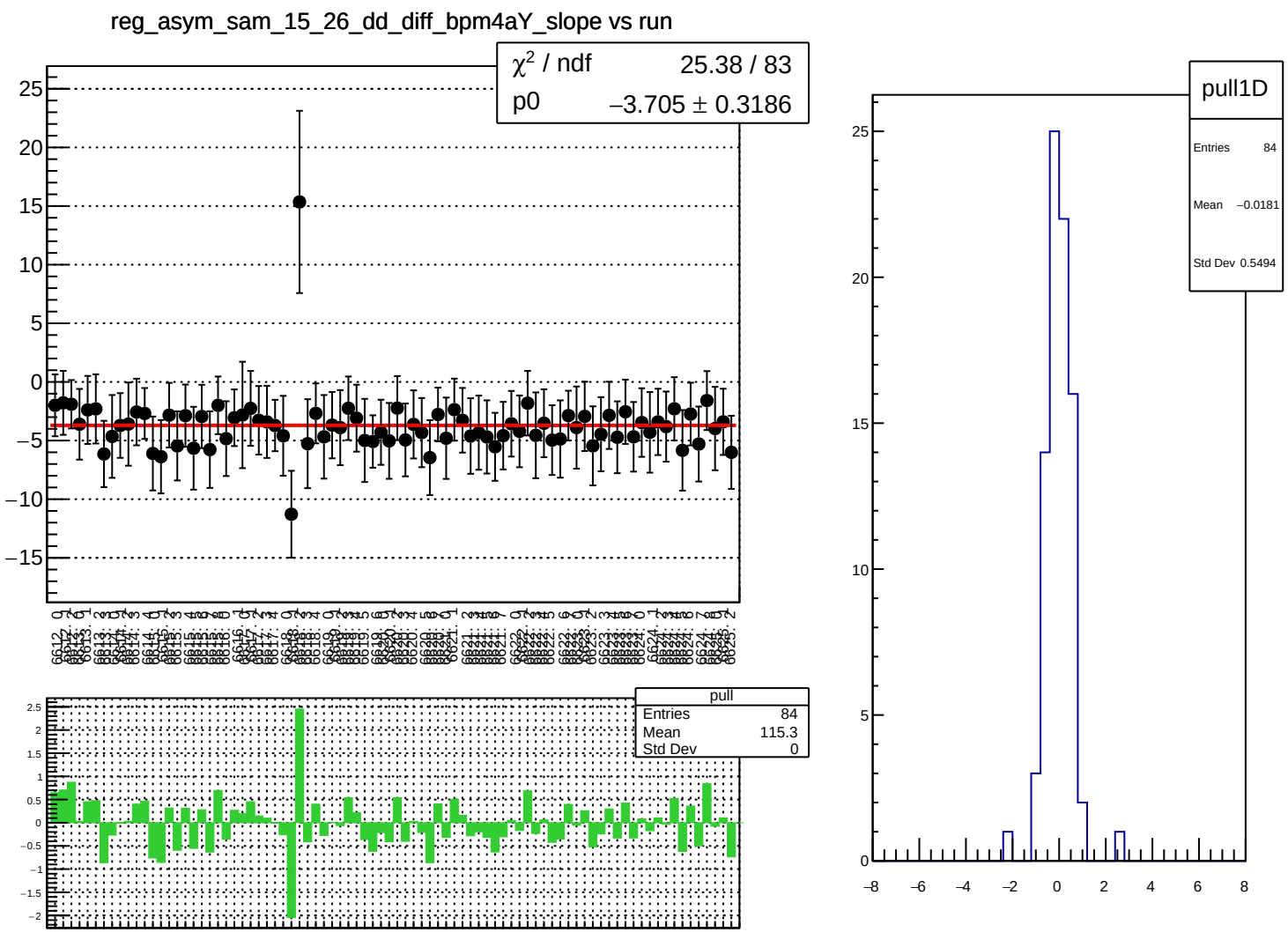

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.26 / 83
p0 −63.47 ± 0.3258
pull
Entries 84
Mean 203.3
Std Dev 0
pull1D
Entries 84
Mean −0.02158
Std Dev 1.031

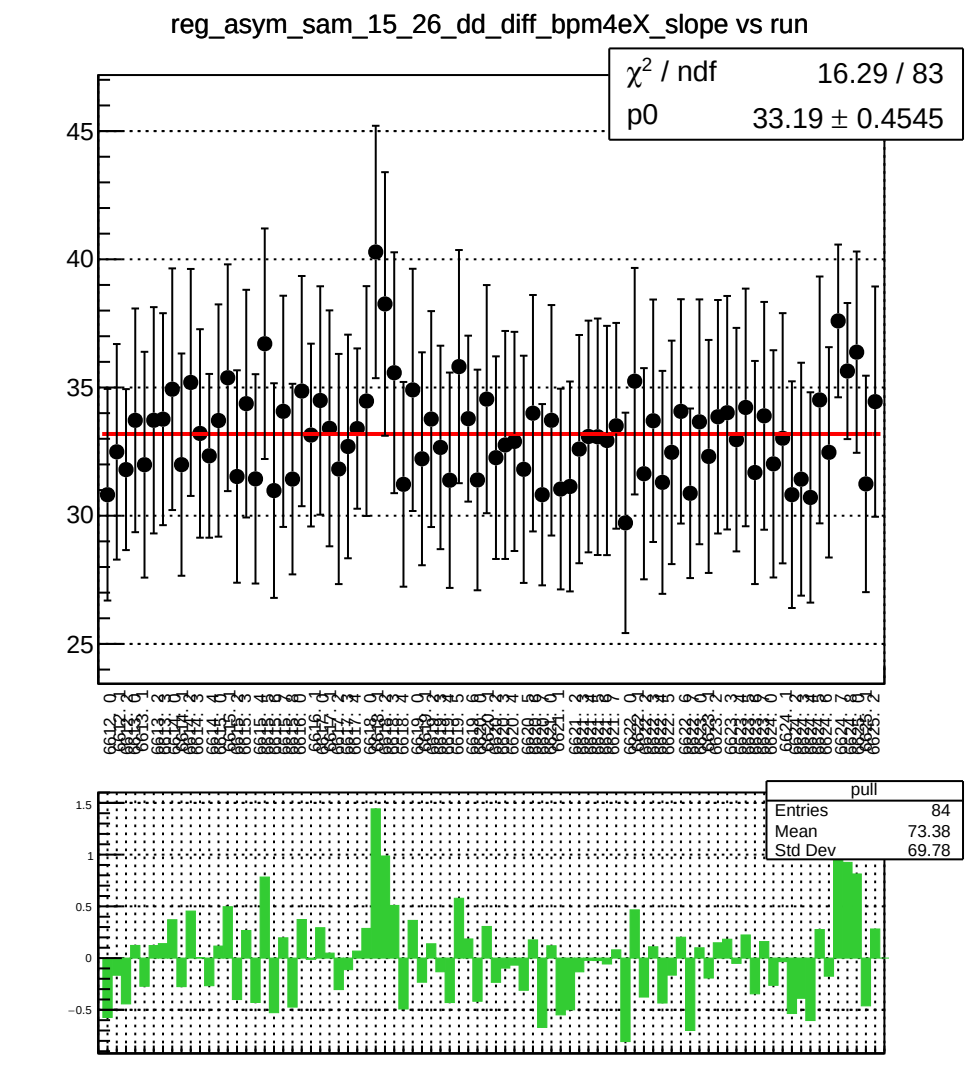

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 10.88 / 83
p0 0.09872 ± 0.01623
pull
Entries 84
Mean 1288
Std Dev 0

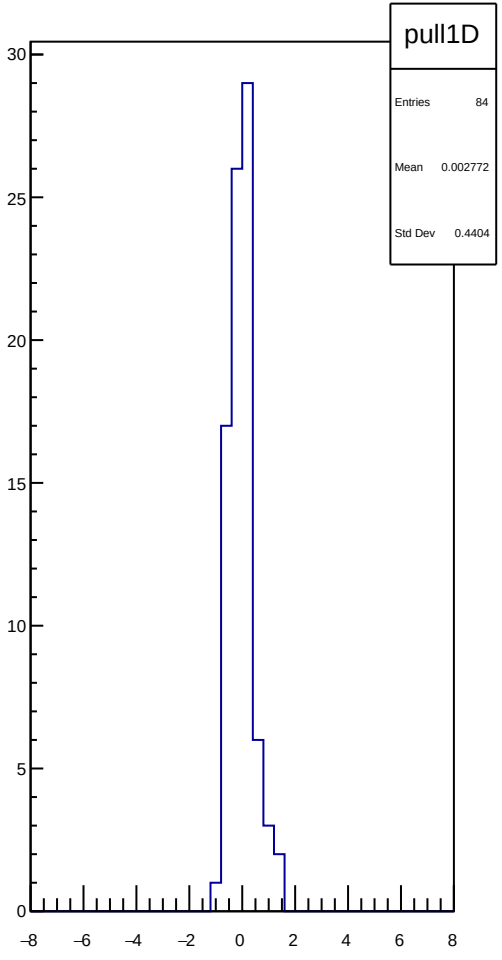

pull1D
Entries 84
Mean −0.002184
Std Dev 0.3599

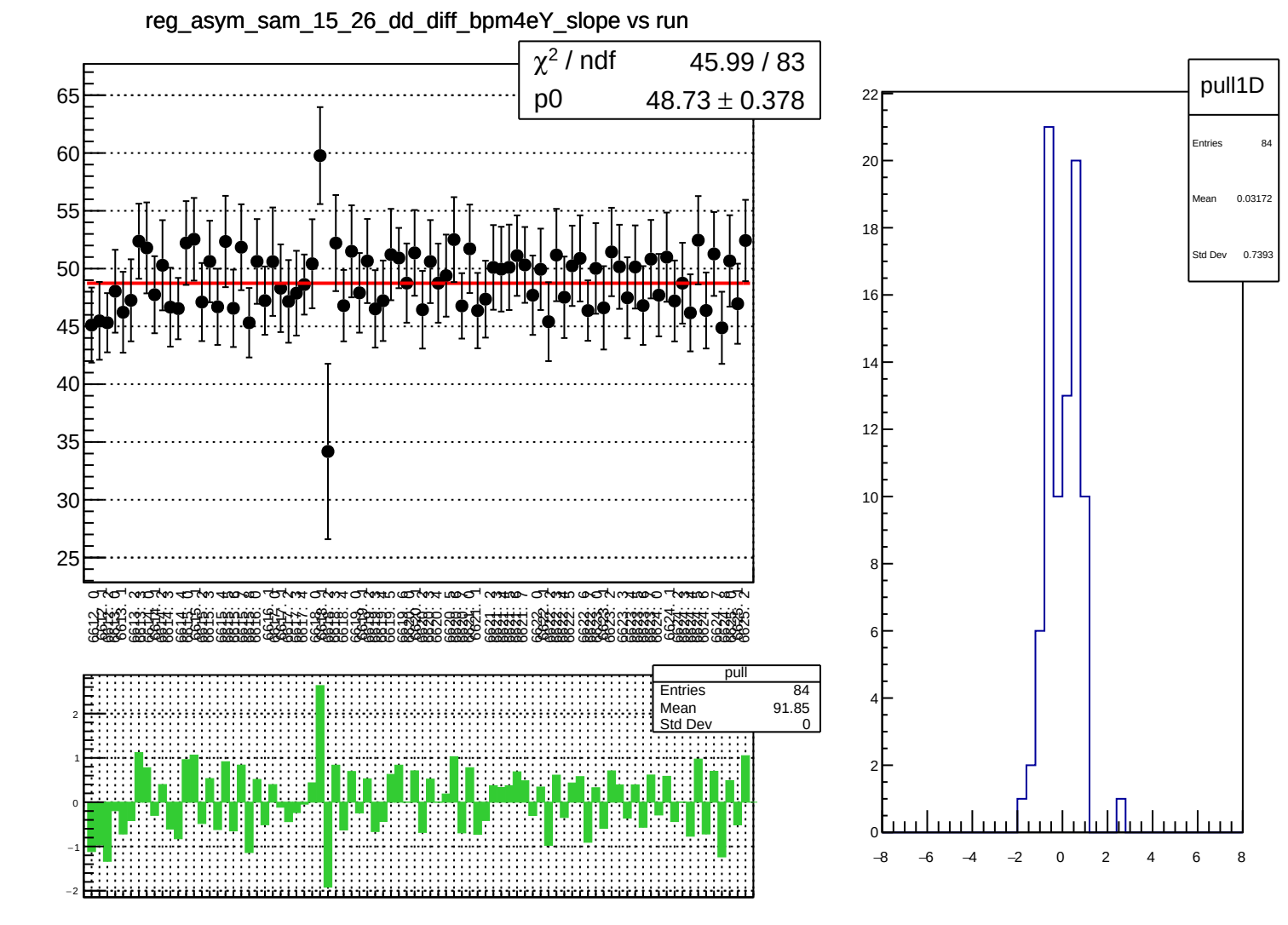

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 10.83 / 83
p0 1.748 ± 0.442
pull
Entries 84
Mean −77.32
Std Dev 0

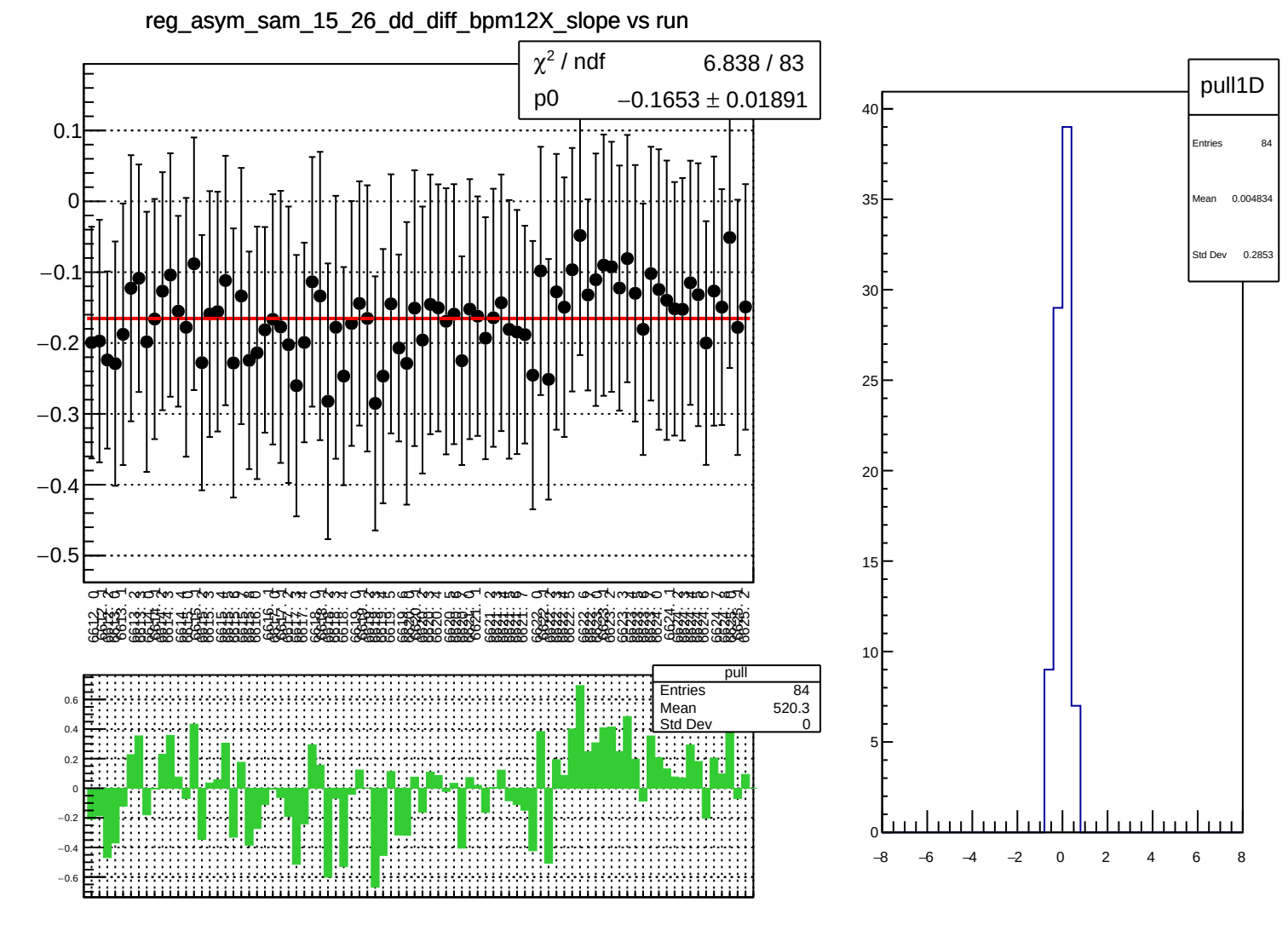

pull1D
Entries 84
Mean 0.008309
Std Dev 0.3589

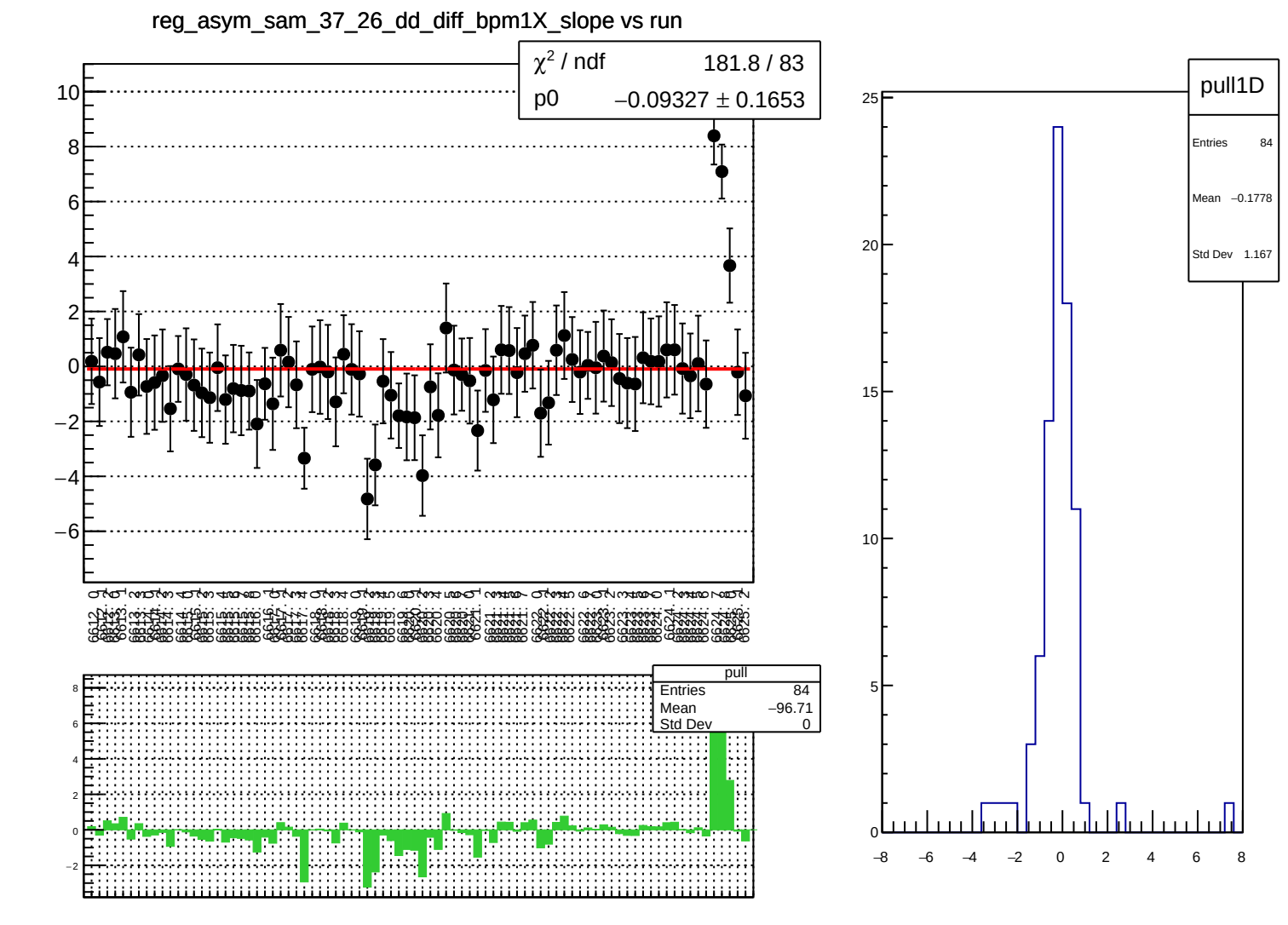

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.38 / 83
p0 −3.705 ± 0.3186
pull
Entries 84
Mean 115.3
Std Dev 0
pull1D
Entries 84
Mean −0.0181
Std Dev 0.5494

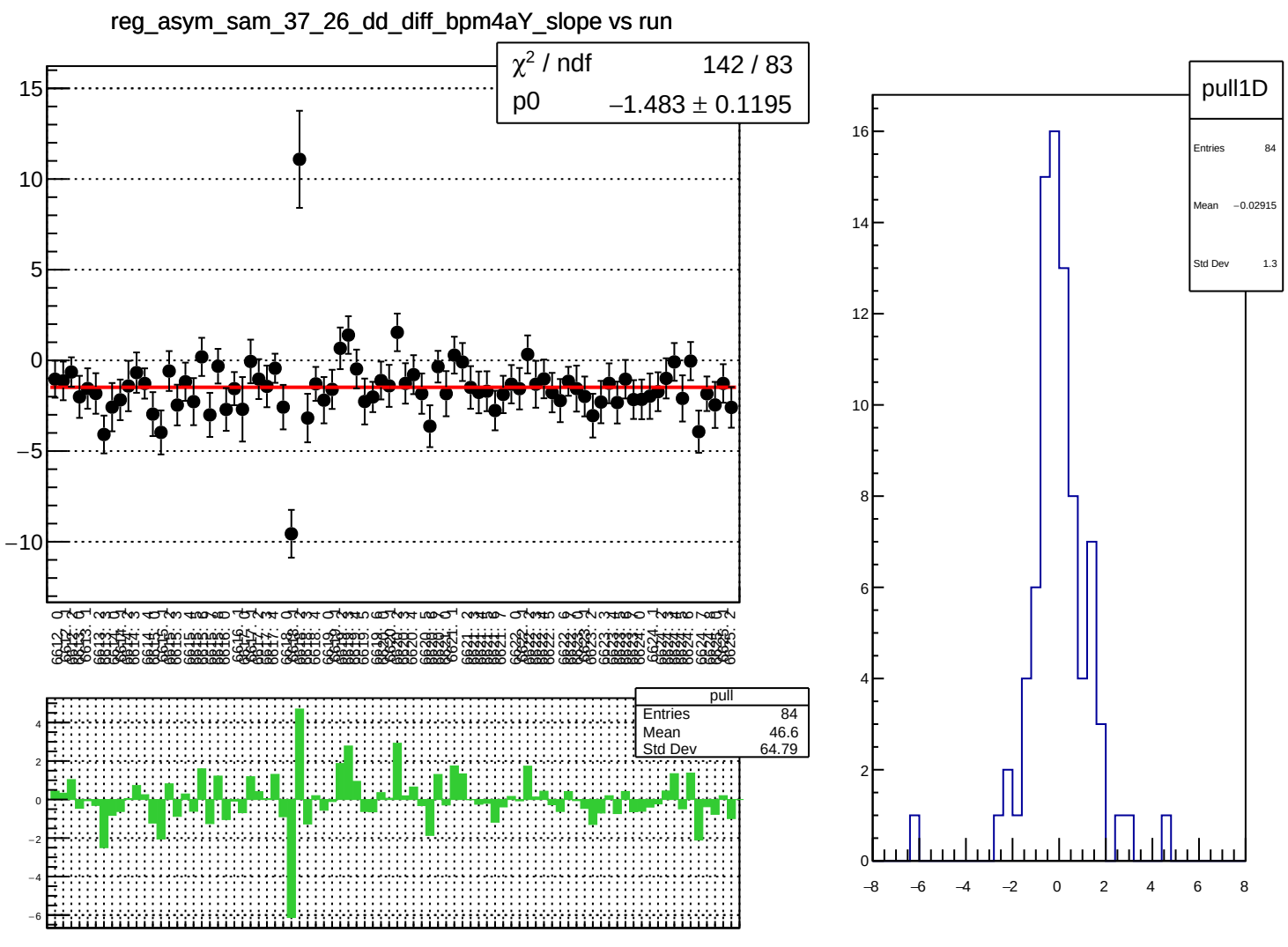

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.29 / 83
p0 33.19 ± 0.4545
pull
Entries 84
Mean 73.38
Std Dev 69.78

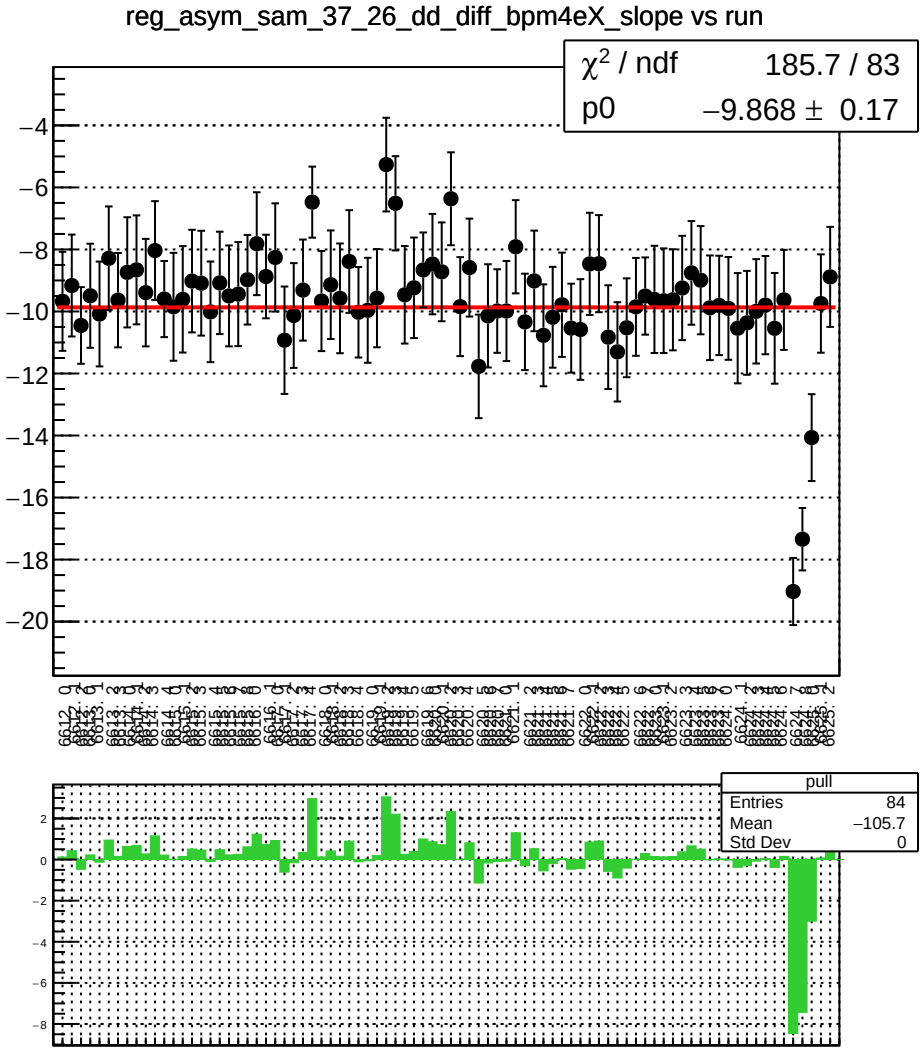

pull1D
Entries 84
Mean 0.002772
Std Dev 0.4404

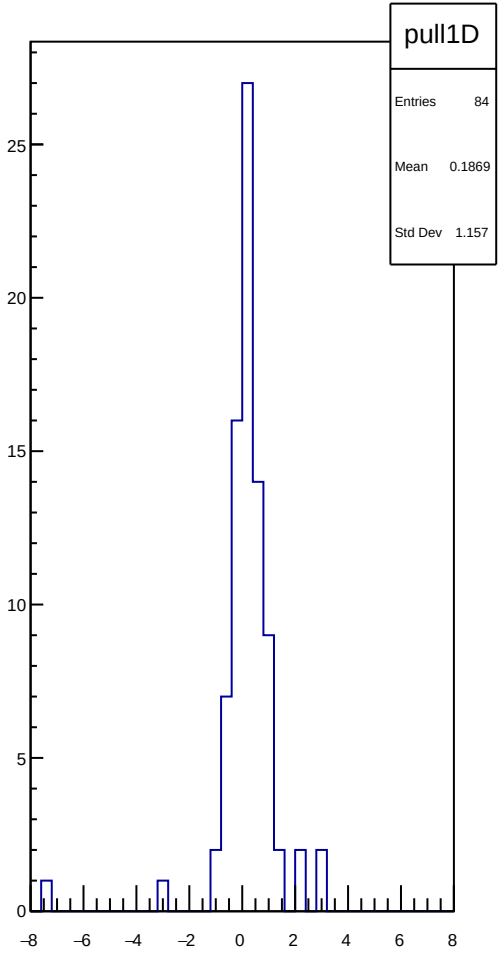

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.99 / 83
p0 48.73 ± 0.378
pull
Entries 84
Mean 91.85
Std Dev 0
pull1D
Entries 84
Mean 0.03172
Std Dev 0.7393

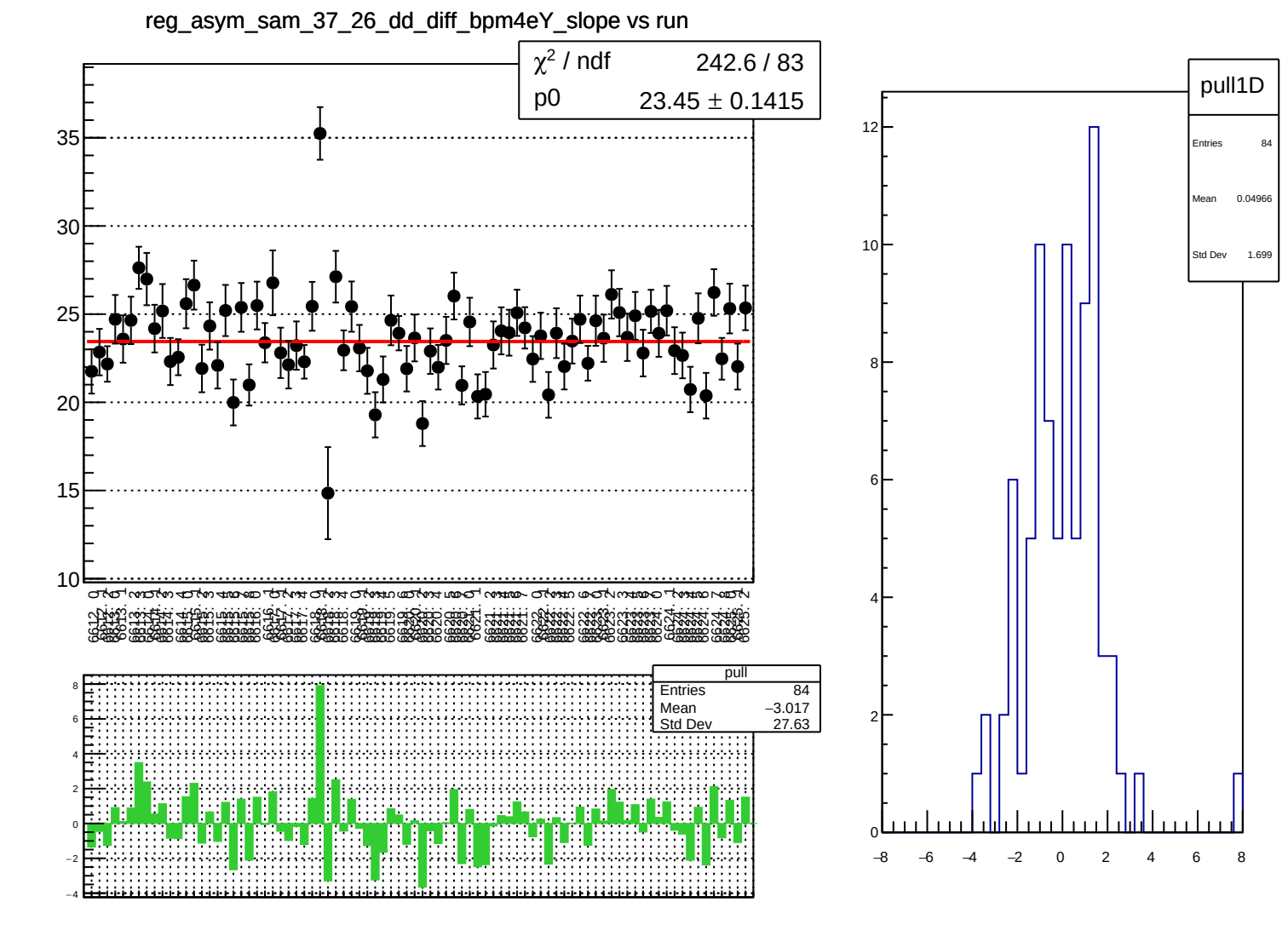

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 6.838 / 83
p0 −0.1653 ± 0.01891
pull
Entries 84
Mean 520.3
Std Dev 0
pull1D
Entries 84
Mean 0.004834
Std Dev 0.2853

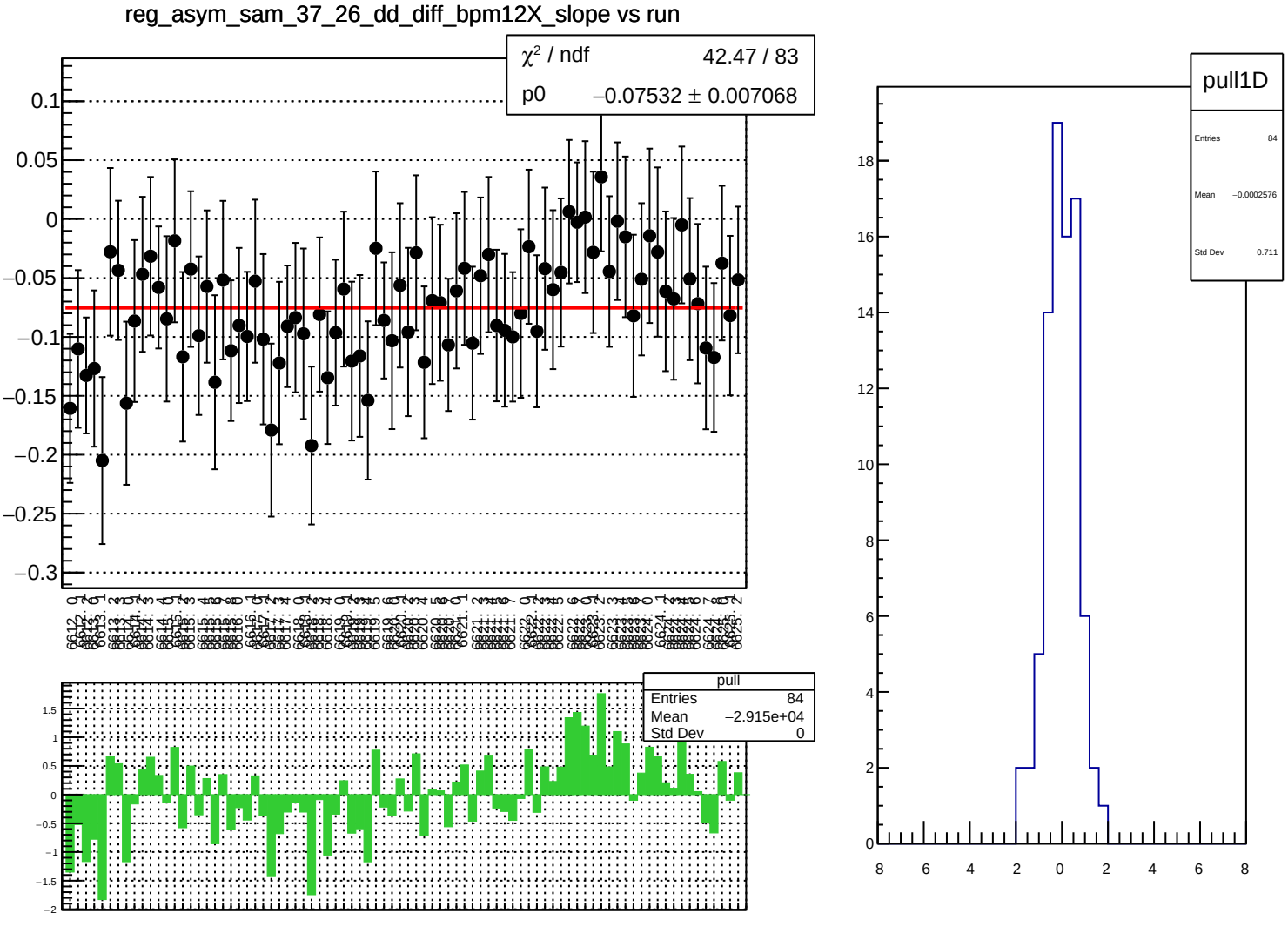

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 181.8 / 83
p0 −0.09327 ± 0.1653
pull
Entries 84
Mean −96.71
Std Dev 0
pull1D
Entries 84
Mean −0.1778
Std Dev 1.167

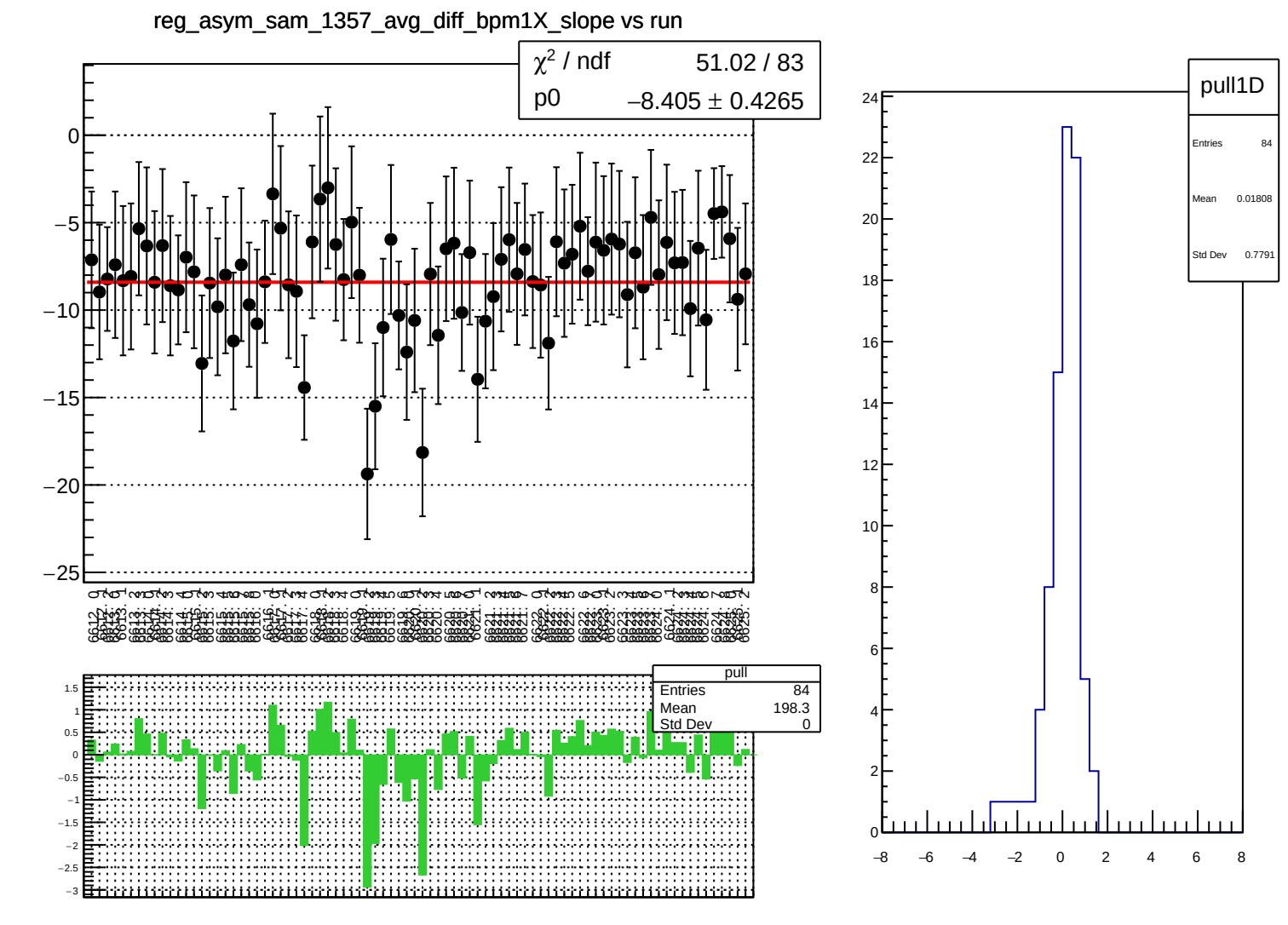

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 142 / 83
p0 −1.483 ± 0.1195
pull
Entries 84
Mean 46.6
Std Dev 64.79
pull1D
Entries 84
Mean −0.02915
Std Dev 1.3

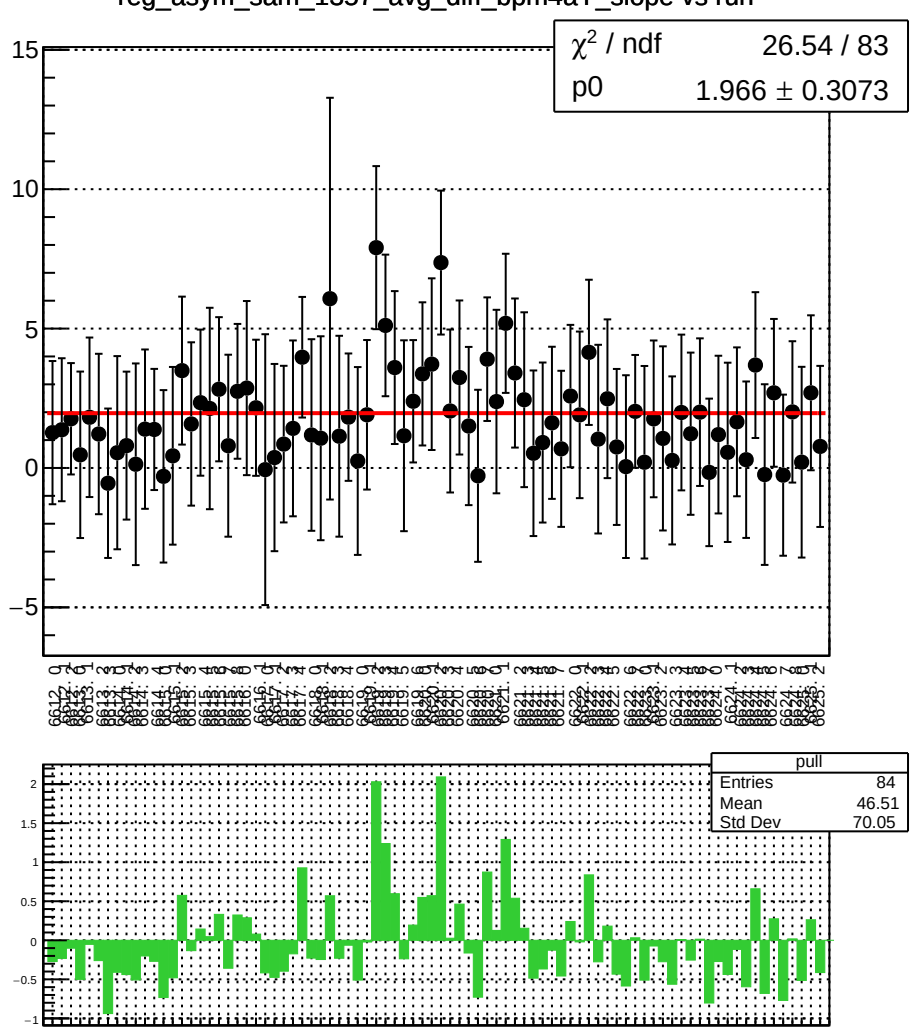

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 185.7 / 83
p0 −9.868 ± 0.17
pull
Entries 84
Mean −105.7
Std Dev 0

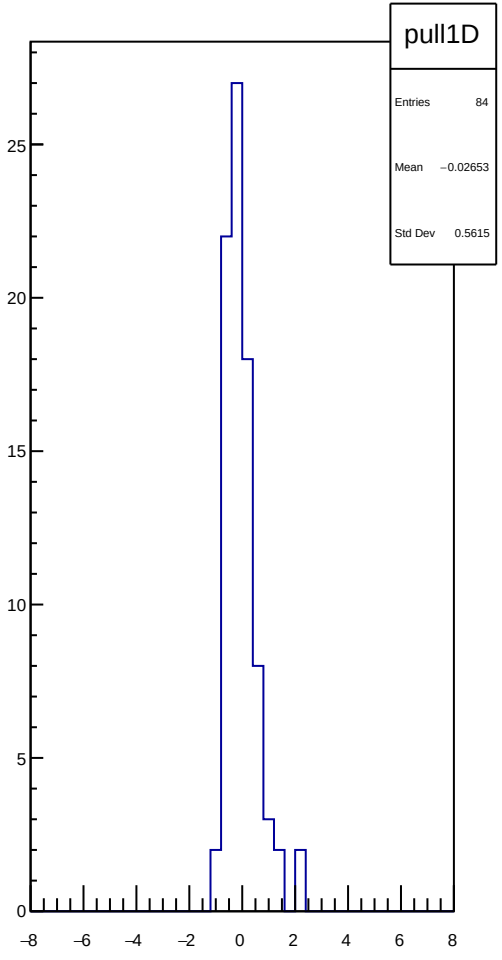

pull1D
Entries 84
Mean 0.1869
Std Dev 1.157

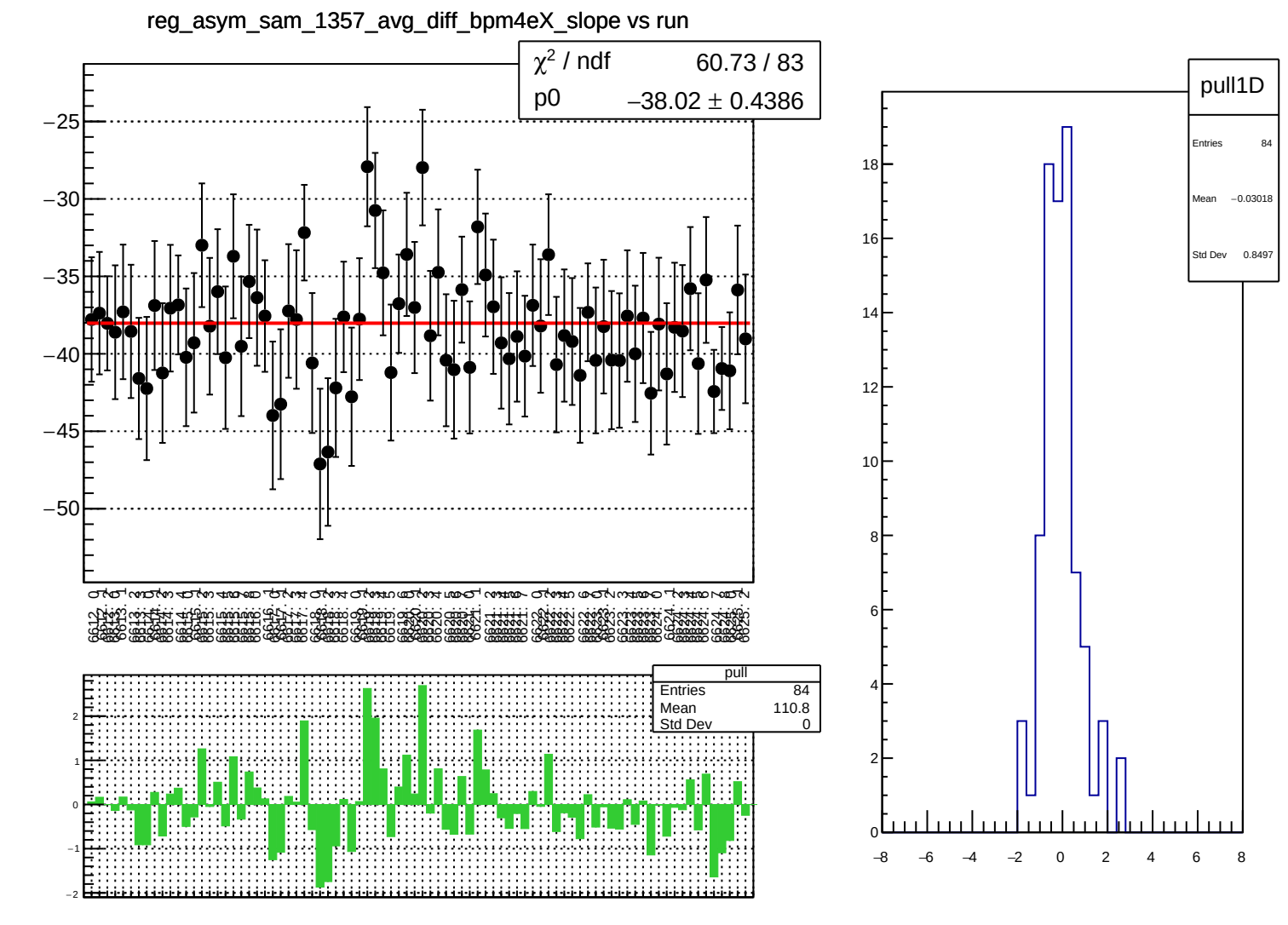

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 242.6 / 83
p0 23.45 ± 0.1415
pull
Entries 84
Mean −3.017
Std Dev 27.63
pull1D
Entries 84
Mean 0.04966
Std Dev 1.699

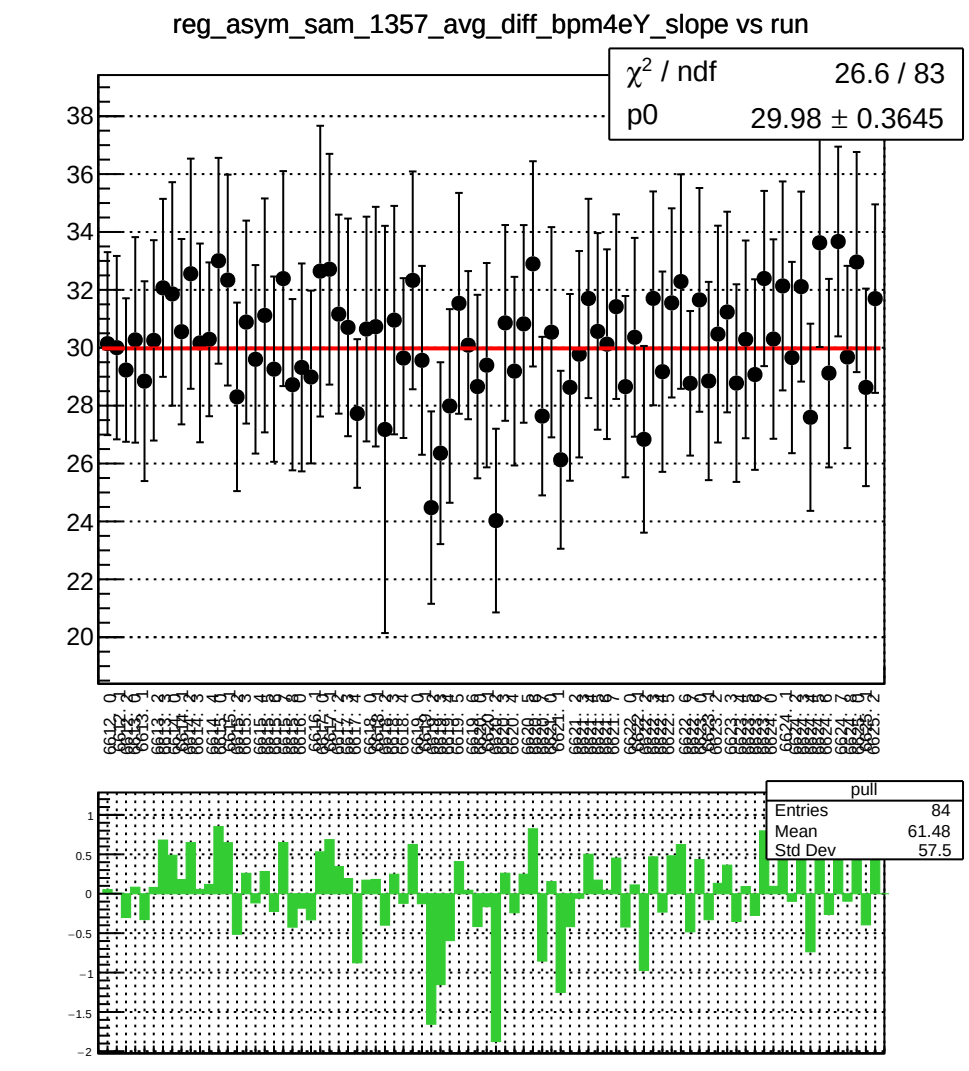

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 42.47 / 83
p0 −0.07532 ± 0.007068
pull
Entries 84
Mean −2.915e+04
Std Dev 0
pull1D
Entries 84
Mean −0.0002576
Std Dev 0.711

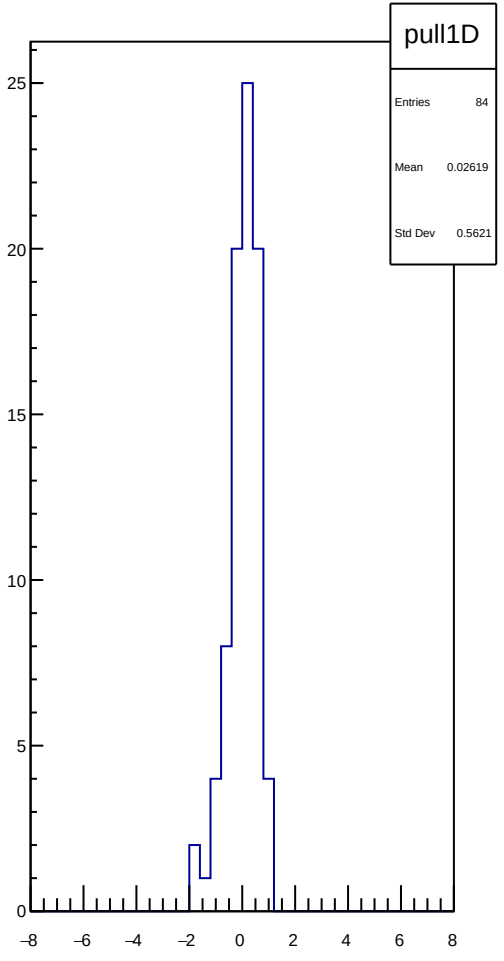

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 51.02 / 83
p0 −8.405 ± 0.4265
pull
Entries 84
Mean 198.3
Std Dev 0
pull1D
Entries 84
Mean 0.01808
Std Dev 0.7791

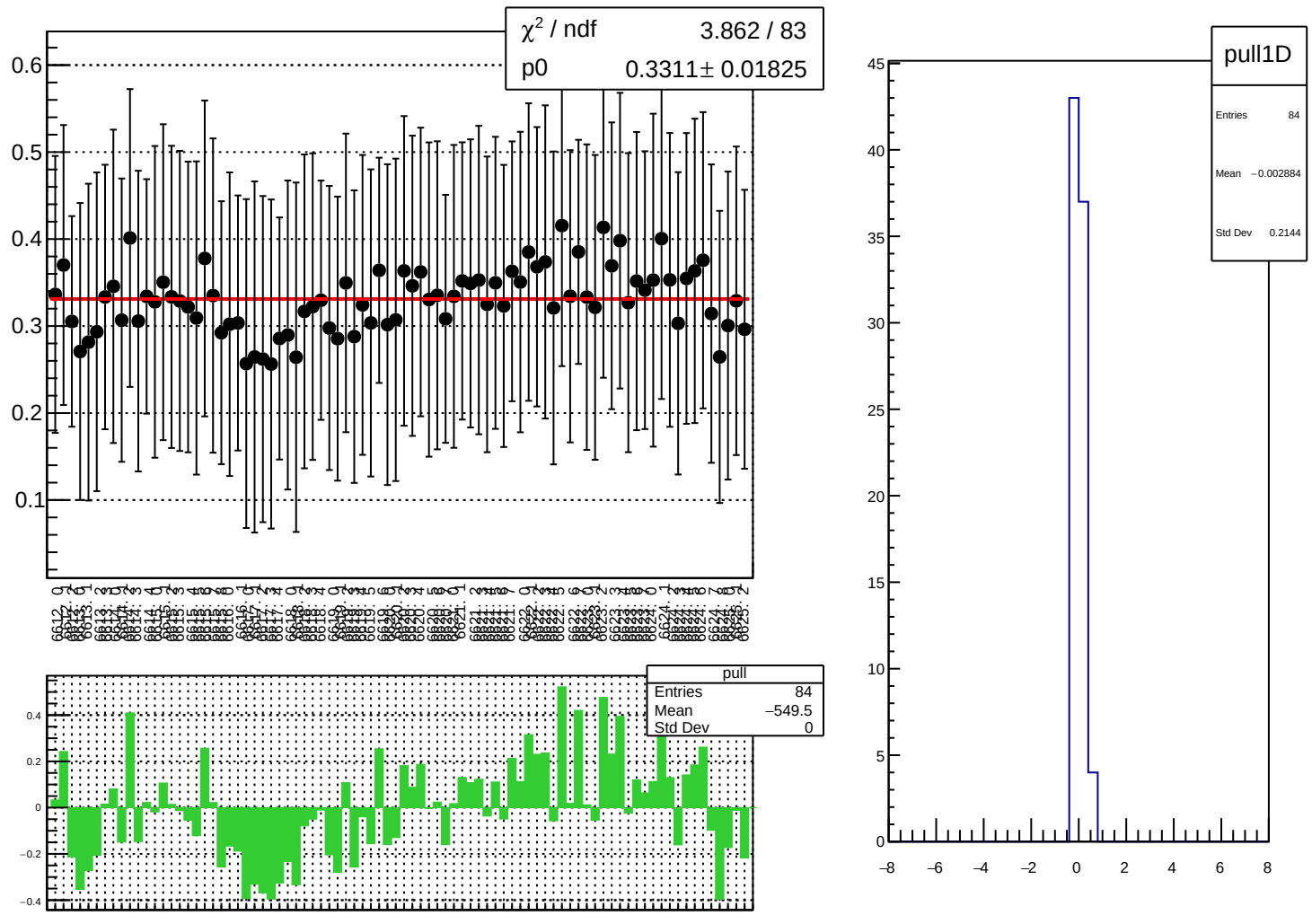

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.54 / 83
p0 1.966 ± 0.3073
pull
Entries 84
Mean 46.51
Std Dev 70.05

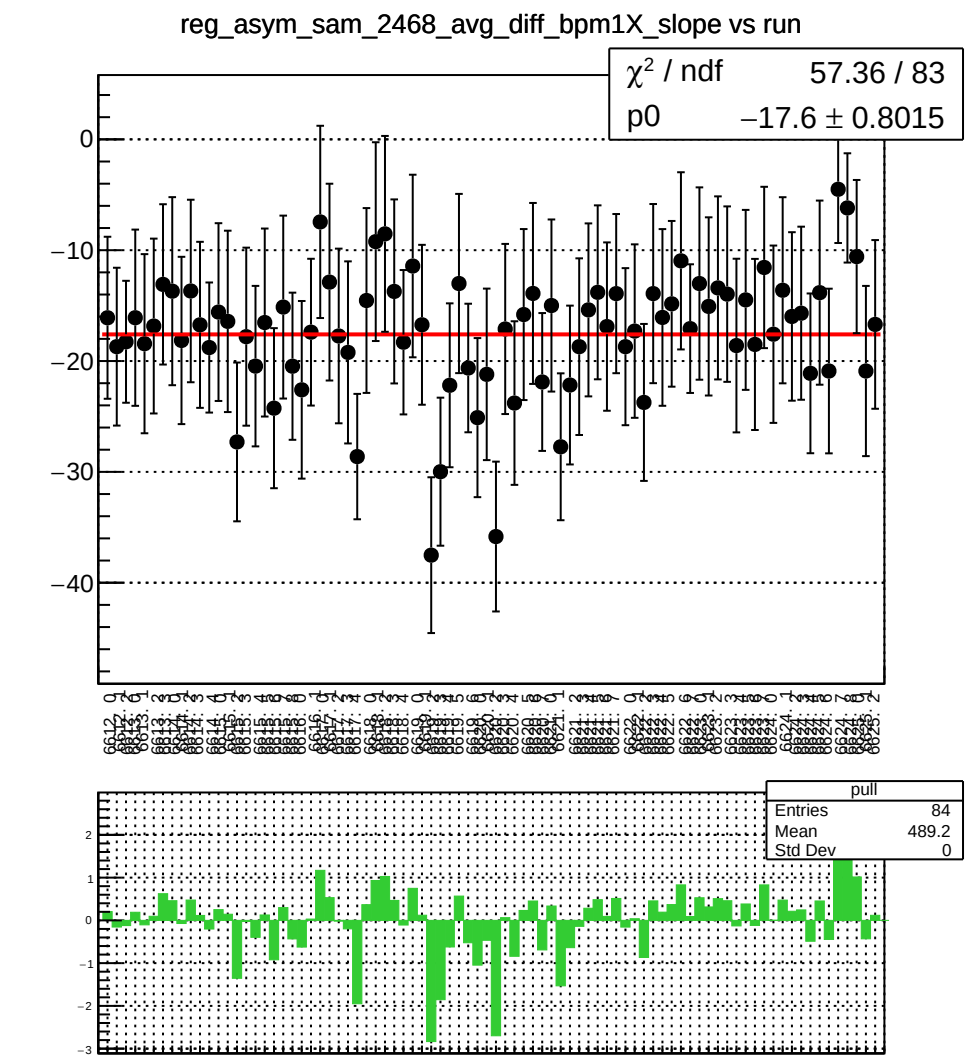

pull1D
Entries 84
Mean −0.02653
Std Dev 0.5615

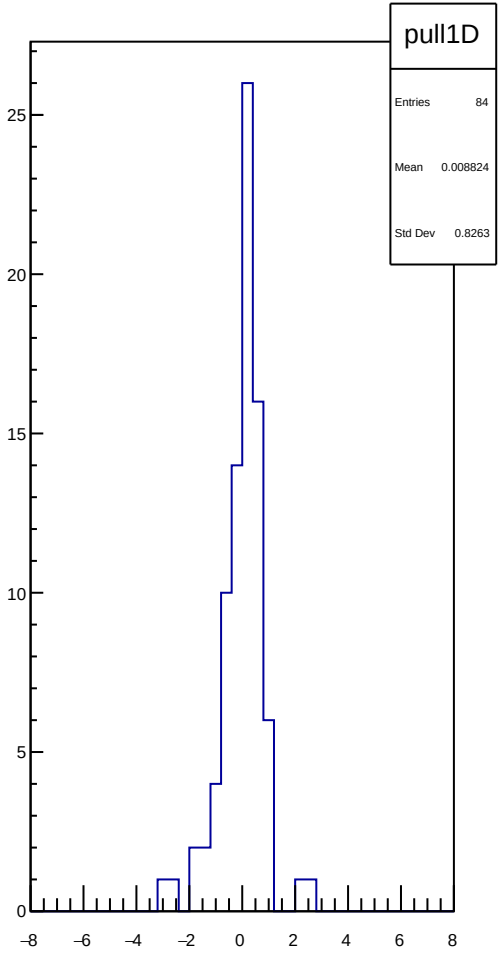

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.73 / 83
p0 −38.02 ± 0.4386
pull
Entries 84
Mean 110.8
Std Dev 0
pull1D
Entries 84
Mean −0.03018
Std Dev 0.8497

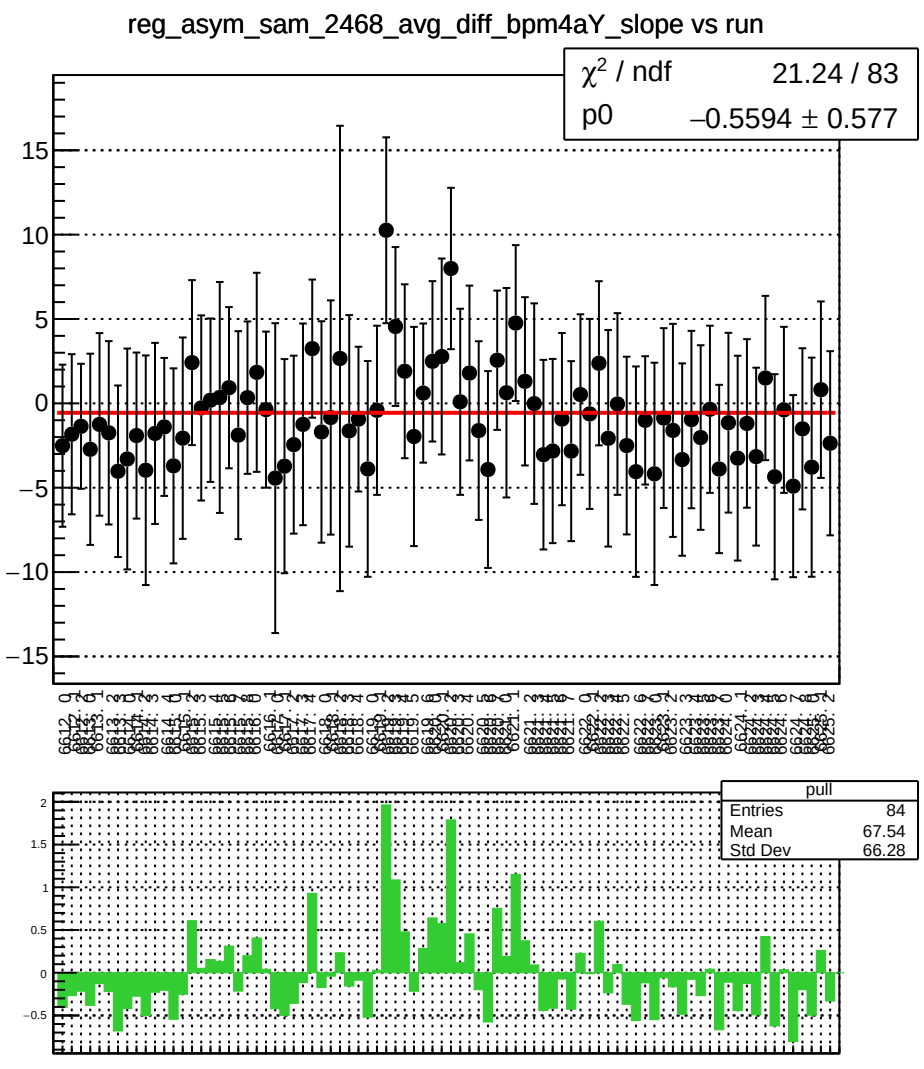

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.6 / 83
p0 29.98 ± 0.3645
pull
Entries 84
Mean 61.48
Std Dev 57.5

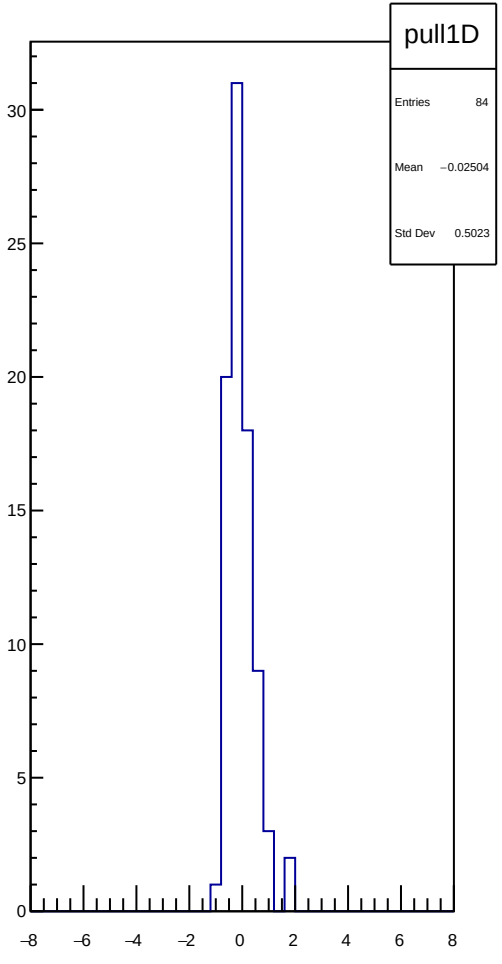

pull1D
Entries 84
Mean 0.02619
Std Dev 0.5621

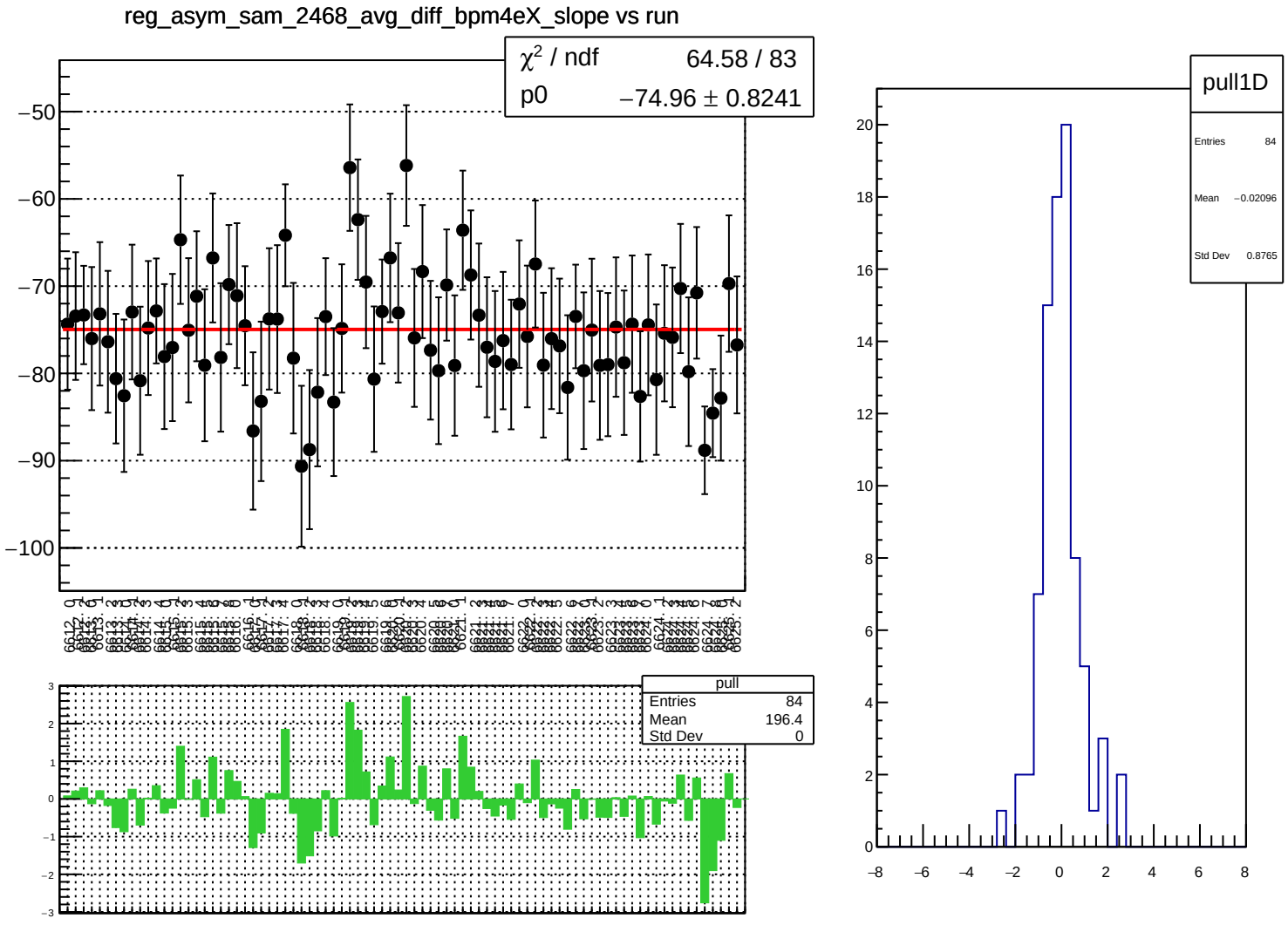

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 3.862 / 83
p0 0.3311± 0.01825
pull
Entries 84
Mean −549.5
Std Dev 0
pull1D
Entries 84
Mean −0.002884
Std Dev 0.2144

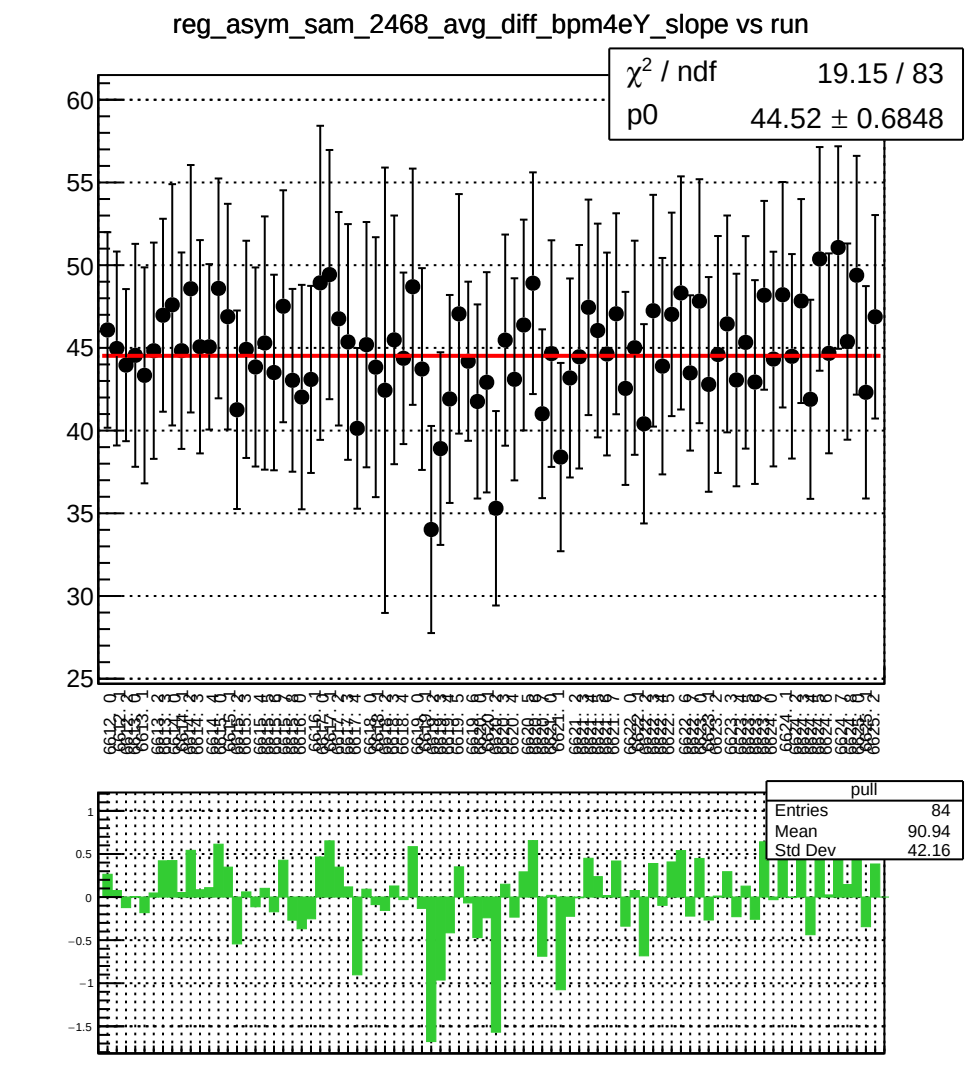

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 57.36 / 83
p0 −17.6 ± 0.8015
pull
Entries 84
Mean 489.2
Std Dev 0

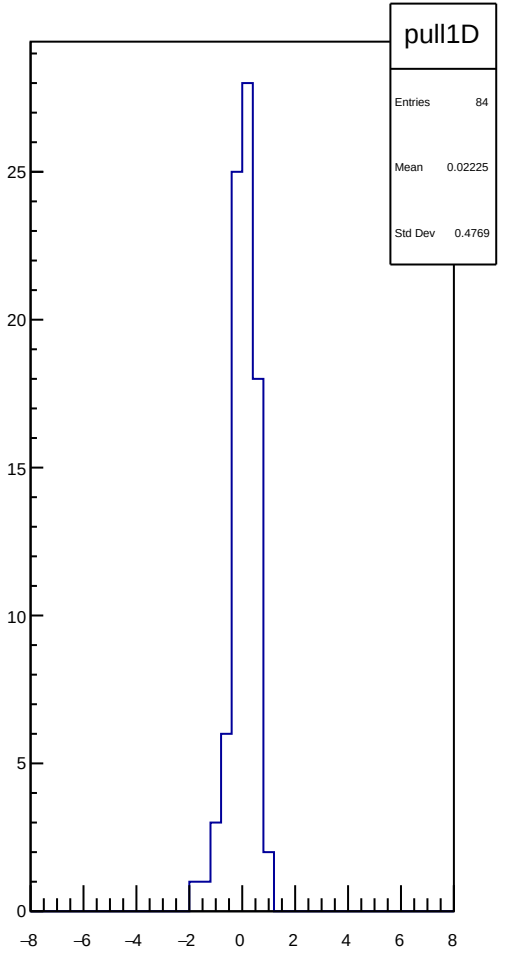

pull1D
Entries 84
Mean 0.008824
Std Dev 0.8263

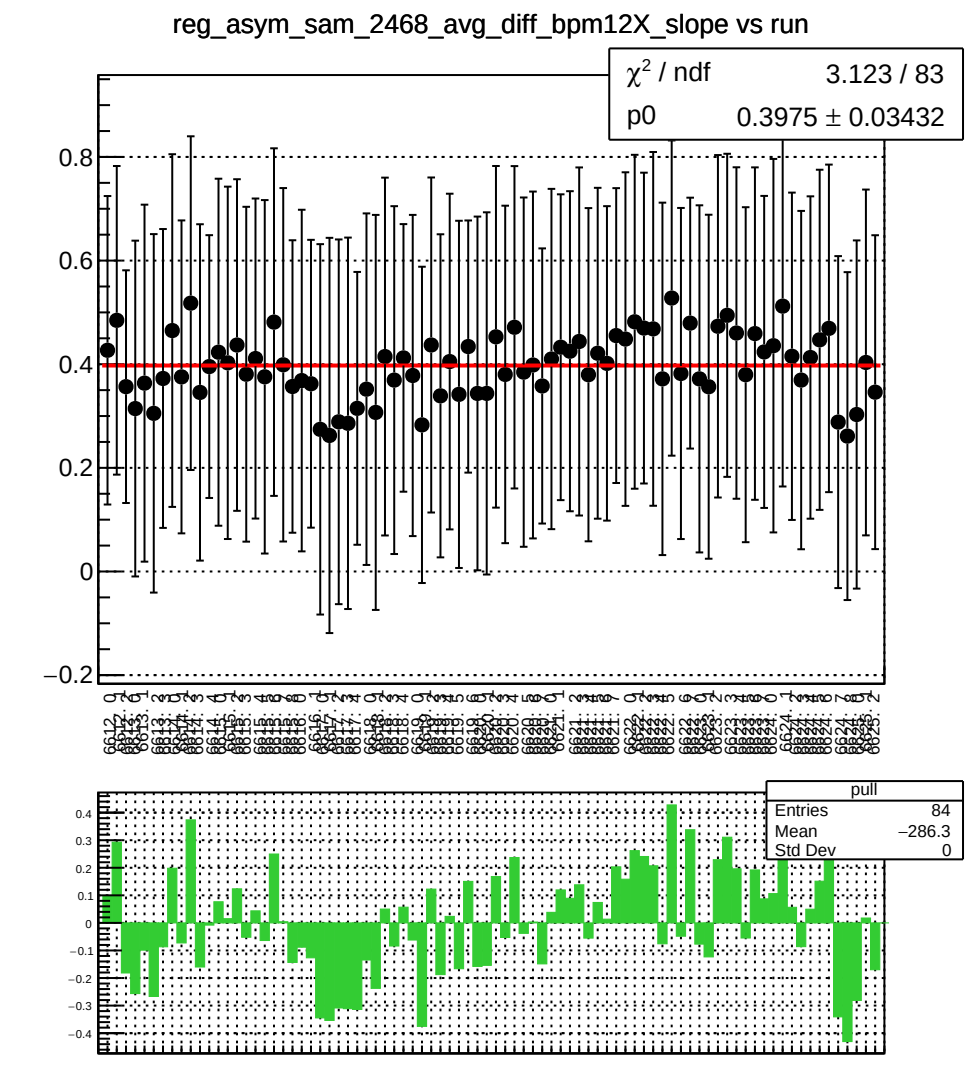

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.24 / 83
p0 −0.5594 ± 0.577
pull
Entries 84
Mean 67.54
Std Dev 66.28

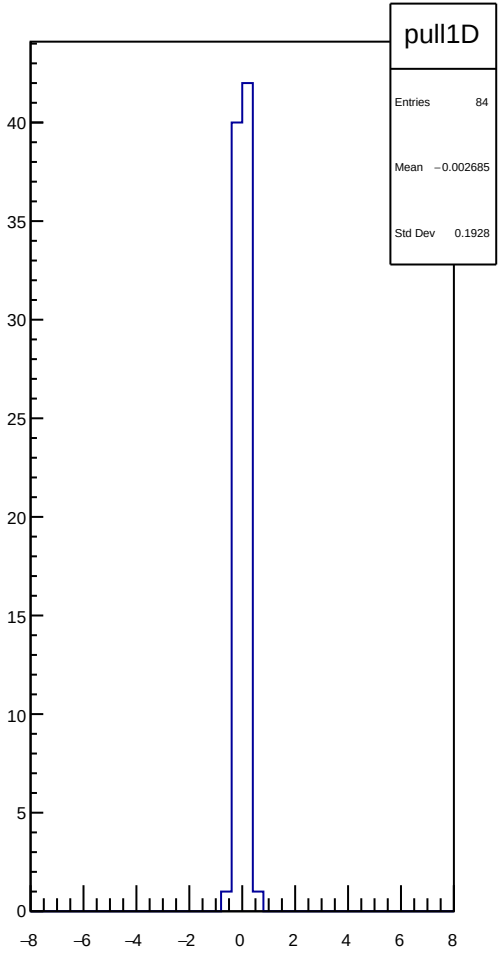

pull1D
Entries 84
Mean −0.02504
Std Dev 0.5023

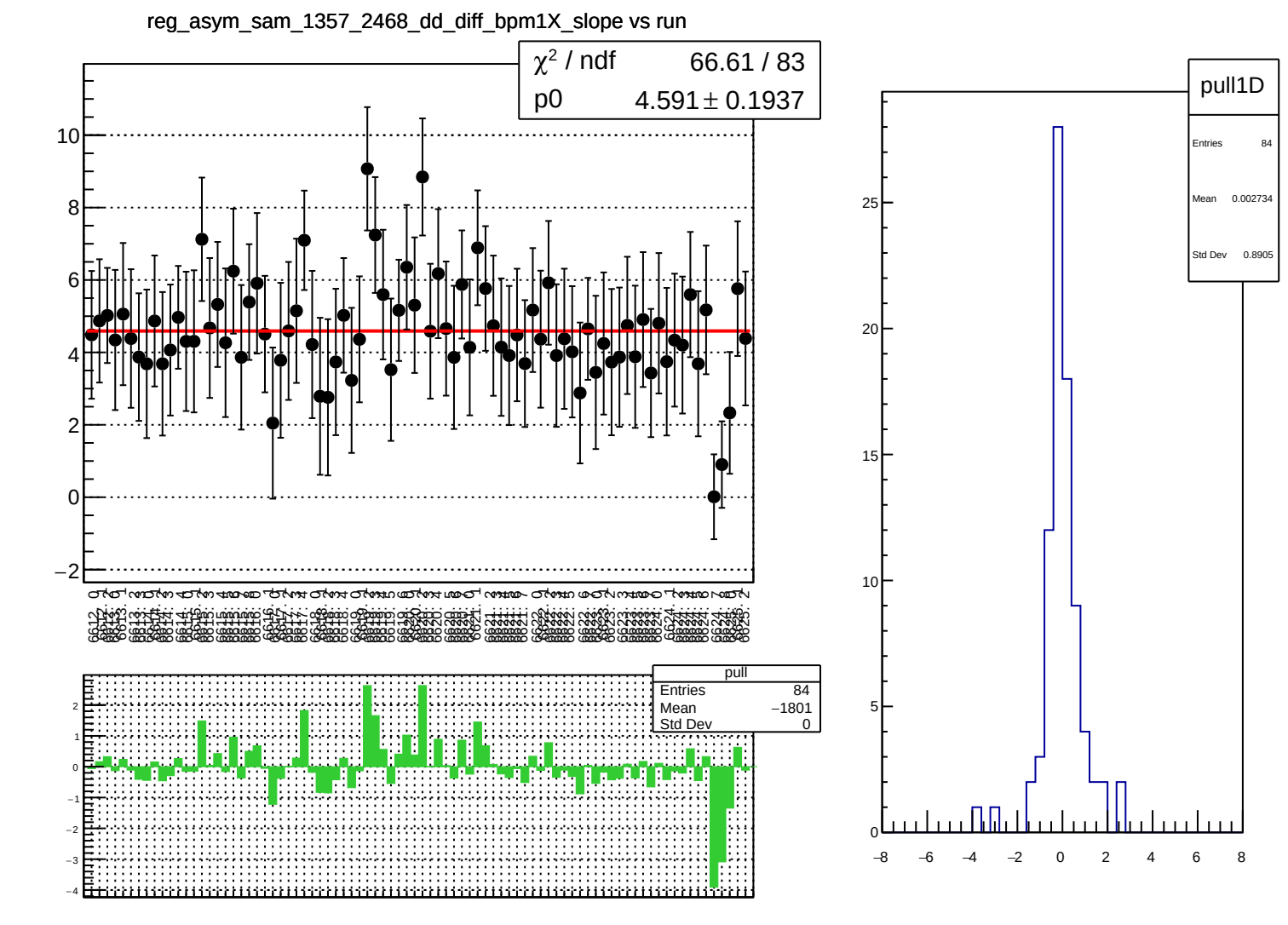

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.58 / 83
p0 −74.96 ± 0.8241
pull
Entries 84
Mean 196.4
Std Dev 0
pull1D
Entries 84
Mean −0.02096
Std Dev 0.8765

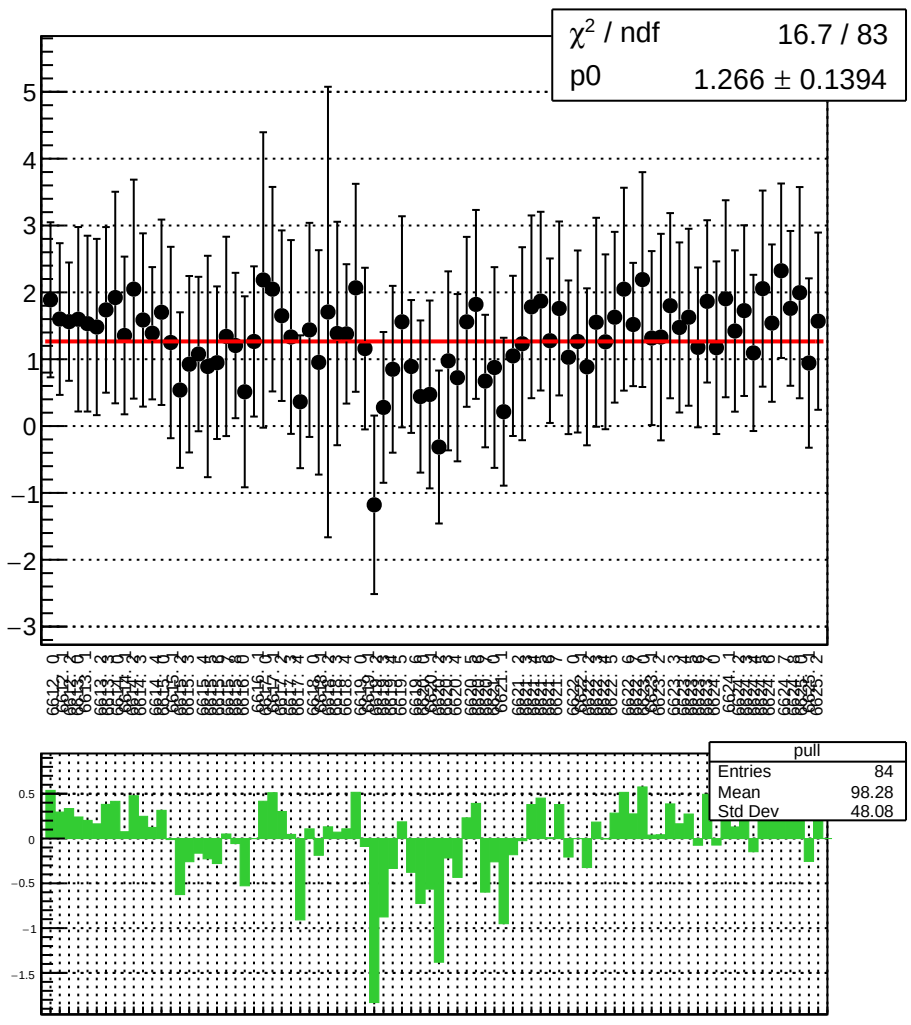

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.15 / 83
p0 44.52 ± 0.6848
pull
Entries 84
Mean 90.94
Std Dev 42.16

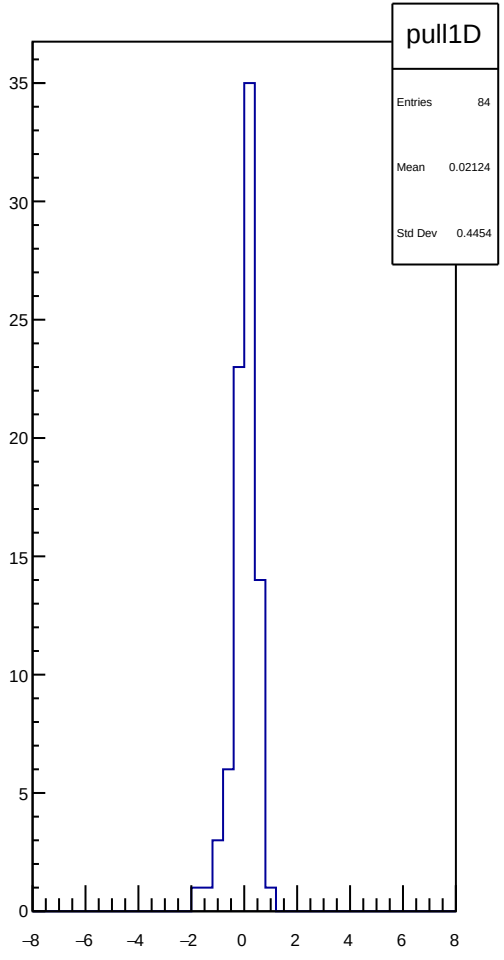

pull1D
Entries 84
Mean 0.02225
Std Dev 0.4769

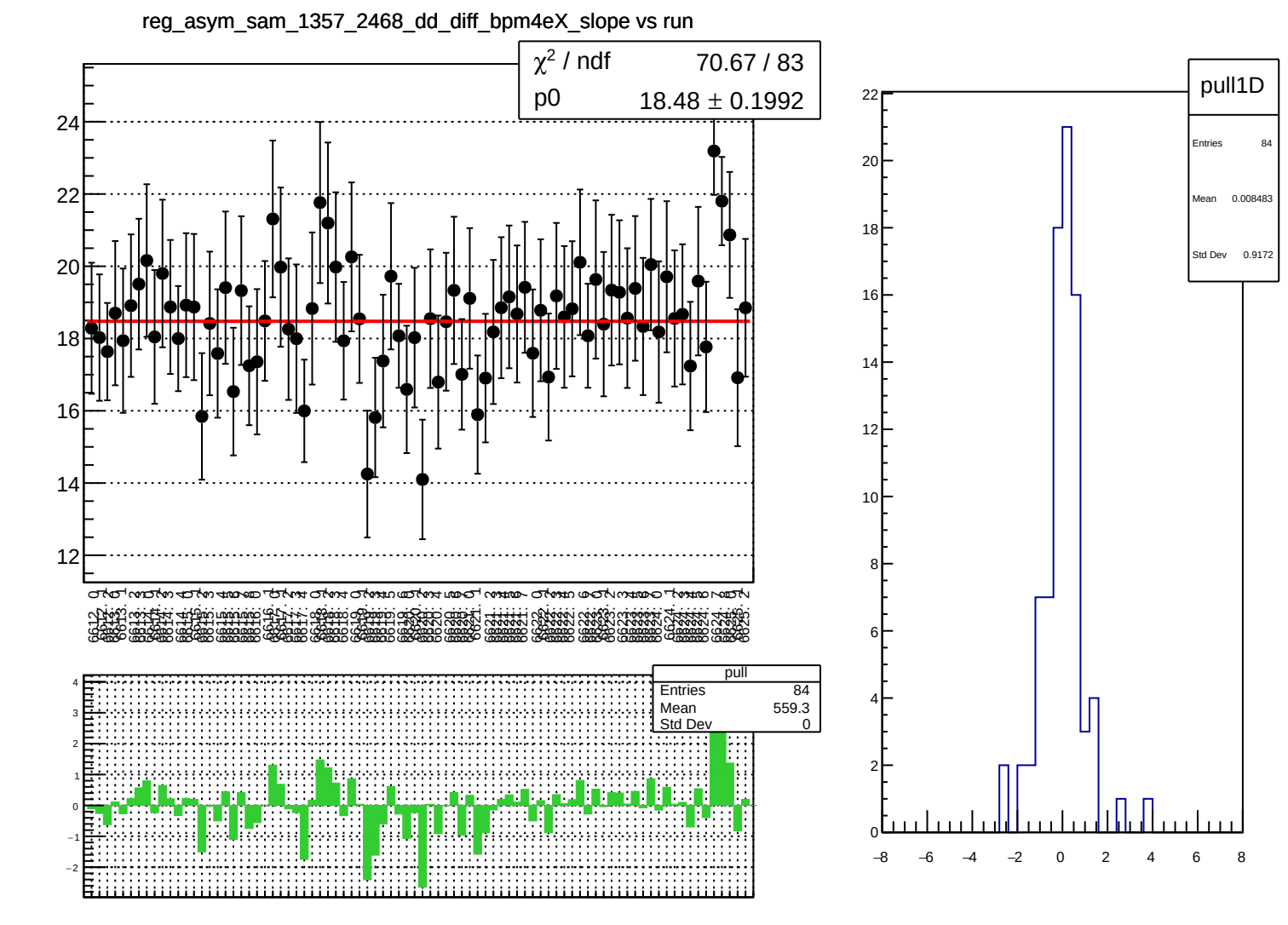

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 3.123 / 83
p0 0.3975 ± 0.03432
pull
Entries 84
Mean −286.3
Std Dev 0

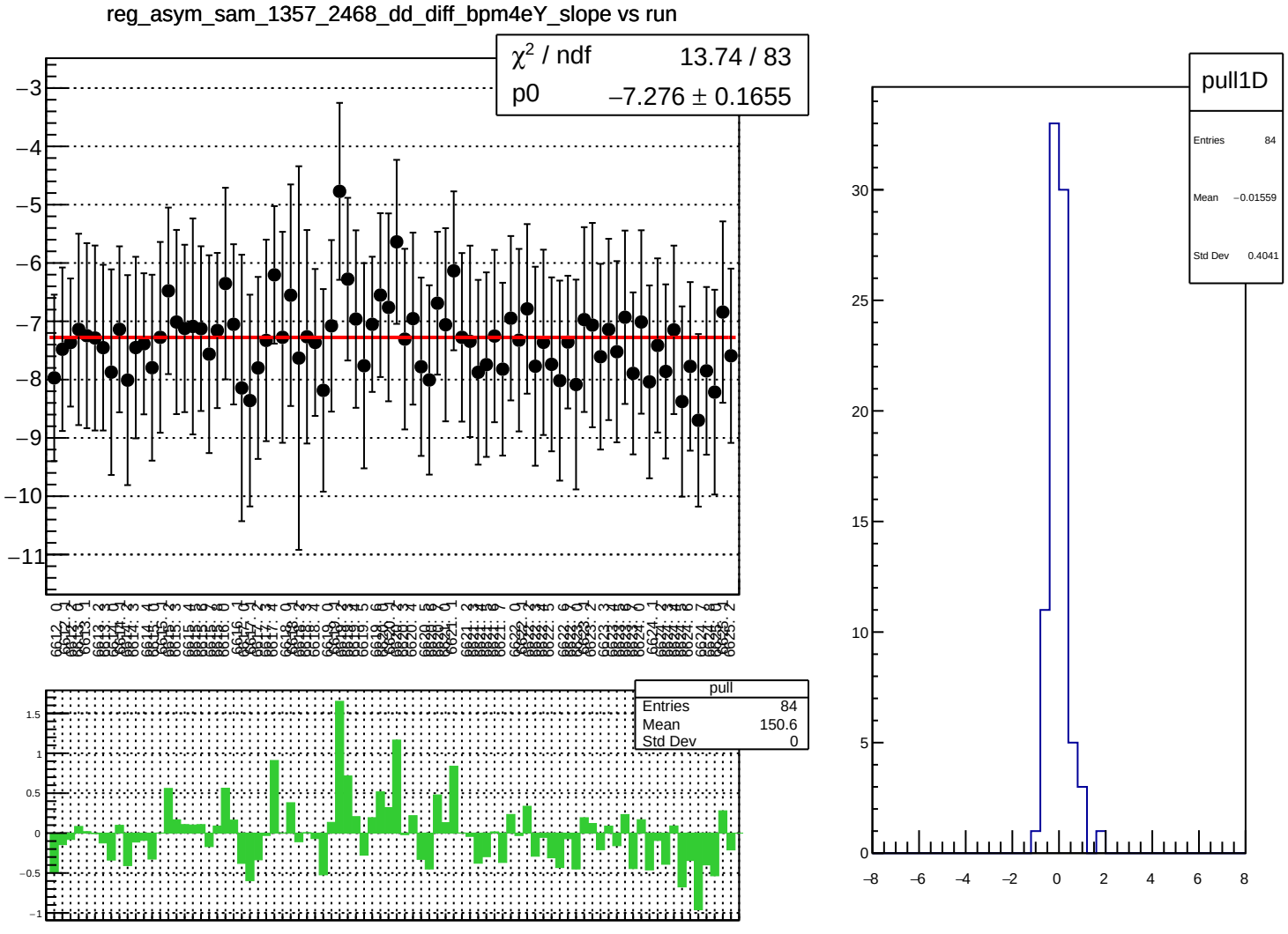

pull1D
Entries 84
Mean −0.002685
Std Dev 0.1928

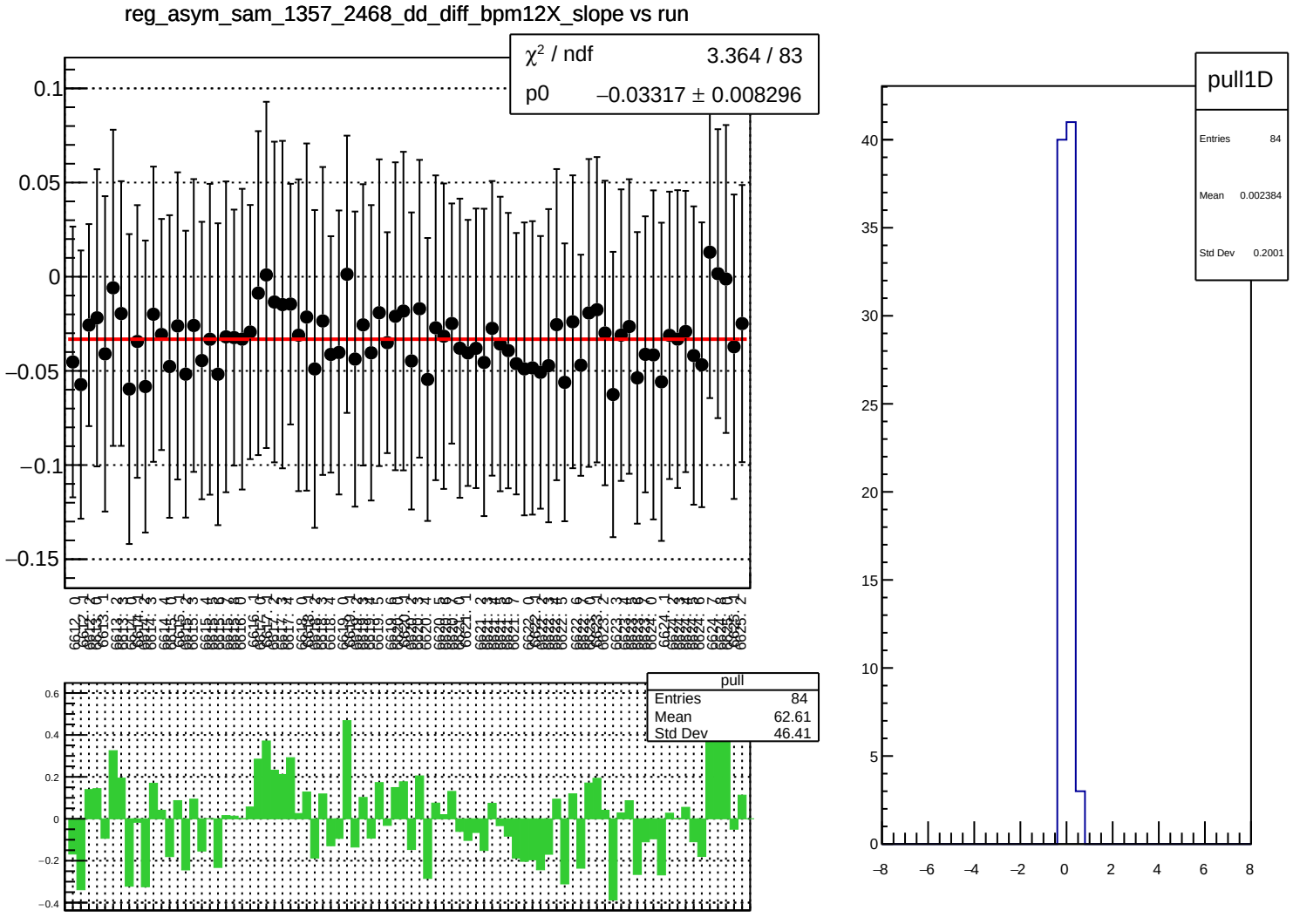

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 66.61 / 83
p0 4.591 ± 0.1937
pull
Entries 84
Mean −1801
Std Dev 0
pull1D
Entries 84
Mean 0.002734
Std Dev 0.8905

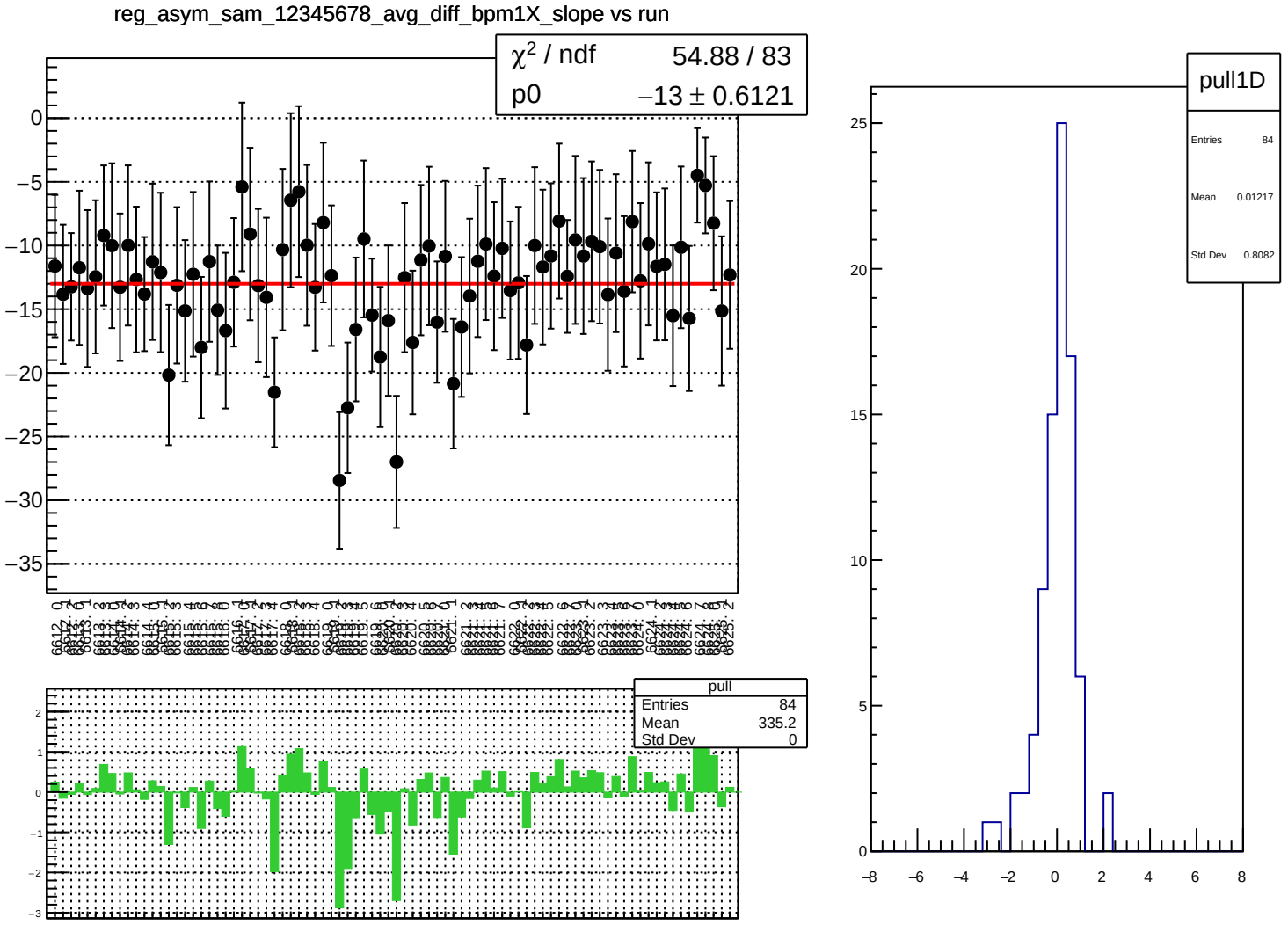

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.7 / 83
p0 1.266 ± 0.1394
pull
Entries 84
Mean 98.28
Std Dev 48.08

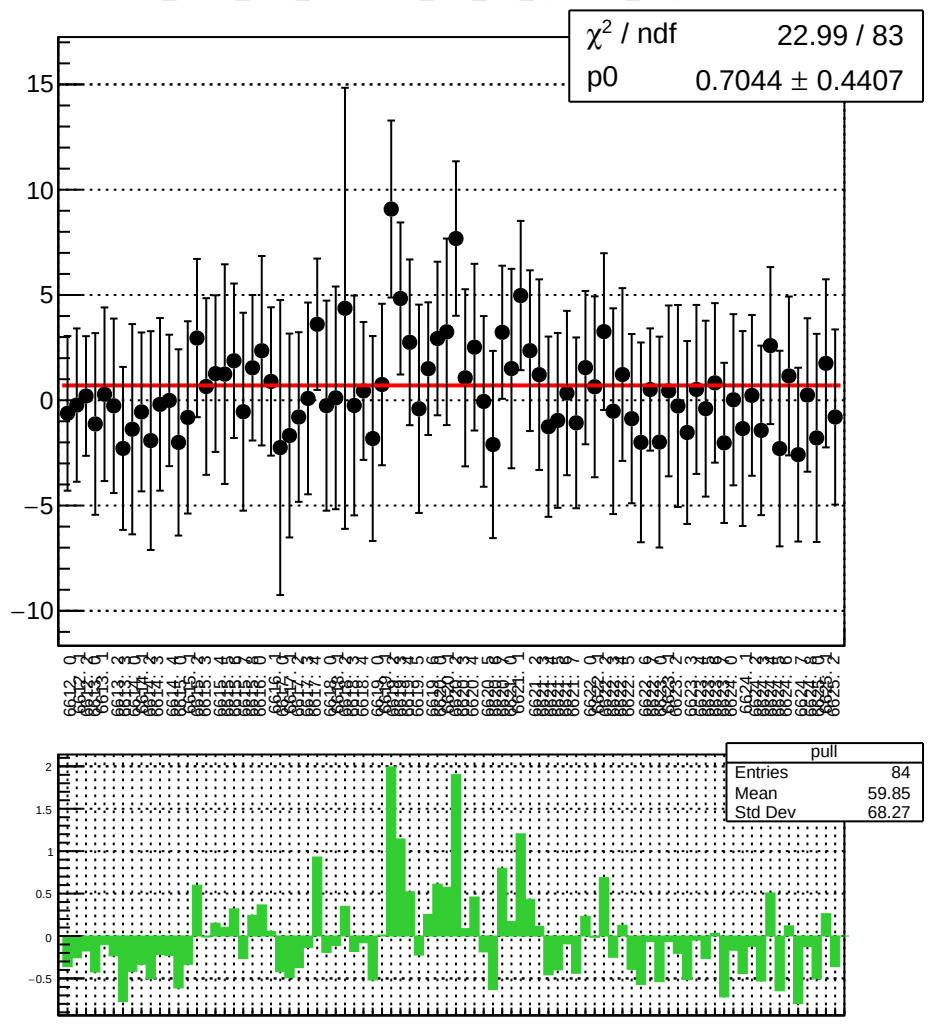

pull1D
Entries 84
Mean 0.02124
Std Dev 0.4454

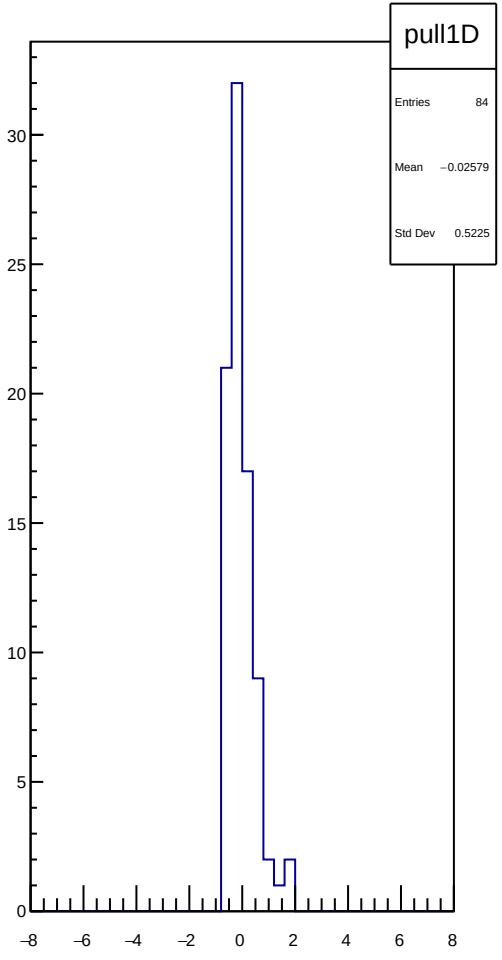

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 70.67 / 83
p0 18.48 ± 0.1992
pull
Entries 84
Mean 559.3
Std Dev 0
pull1D
Entries 84
Mean 0.008483
Std Dev 0.9172

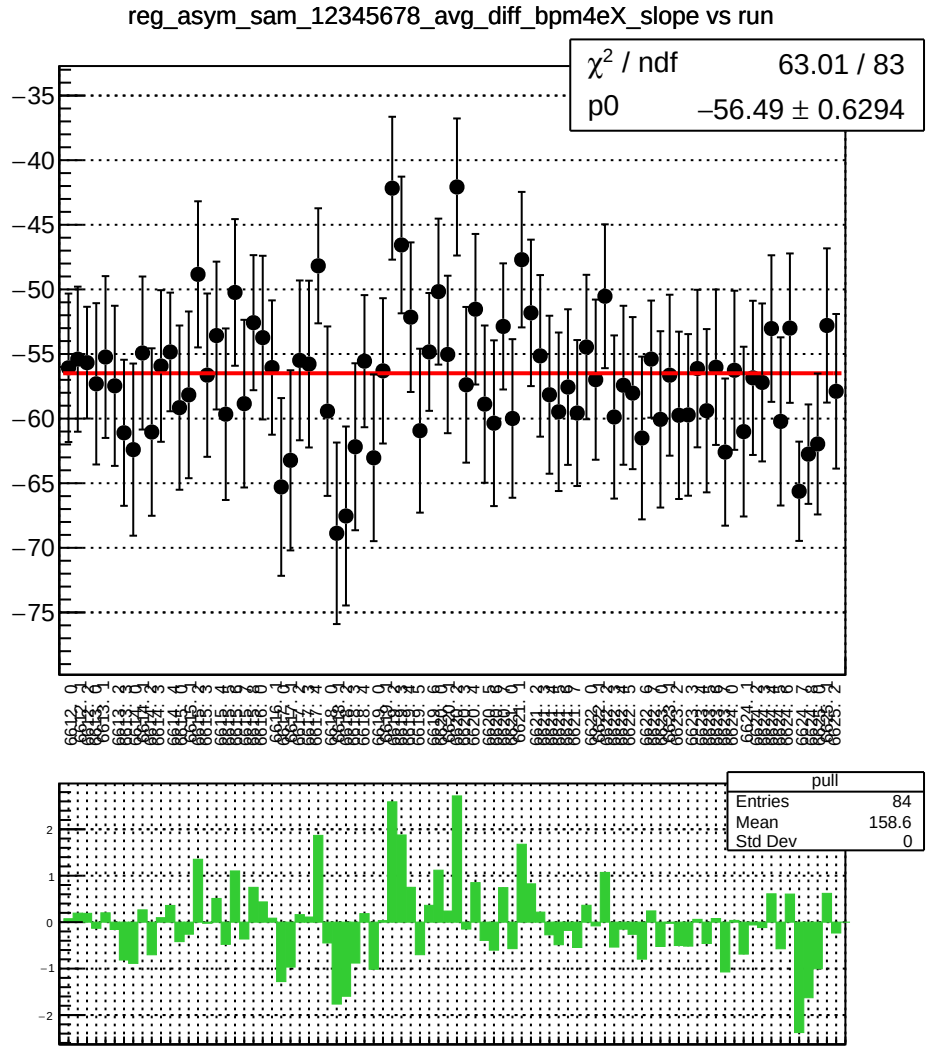

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.74 / 83
p0 −7.276 ± 0.1655
pull
Entries 84
Mean 150.6
Std Dev 0
pull1D
Entries 84
Mean −0.01559
Std Dev 0.4041

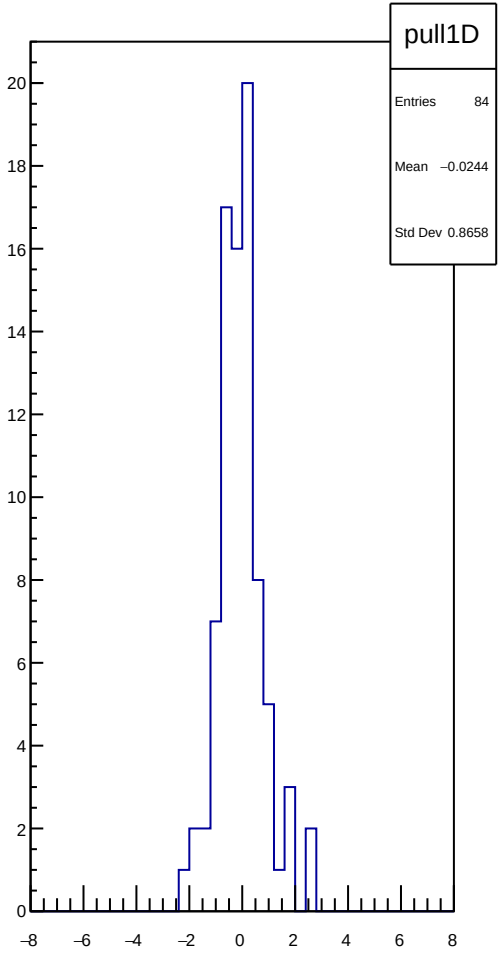

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 3.364 / 83
p0 −0.03317 ± 0.008296
pull
Entries 84
Mean 62.61
Std Dev 46.41
pull1D
Entries 84
Mean 0.002384
Std Dev 0.2001

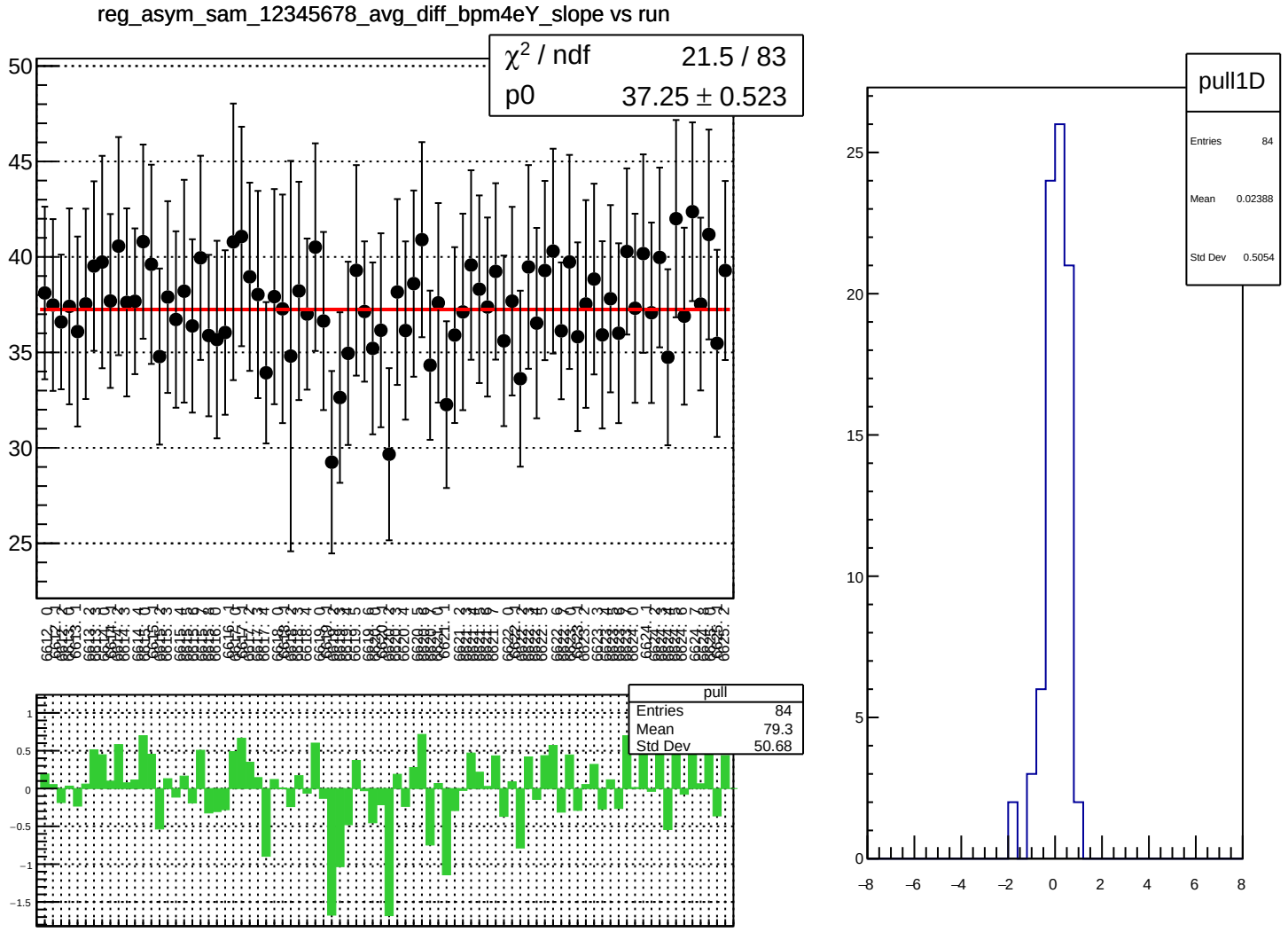

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 54.88 / 83
p0 −13 ± 0.6121
pull
Entries 84
Mean 335.2
Std Dev 0
pull1D
Entries 84
Mean 0.01217
Std Dev 0.8082

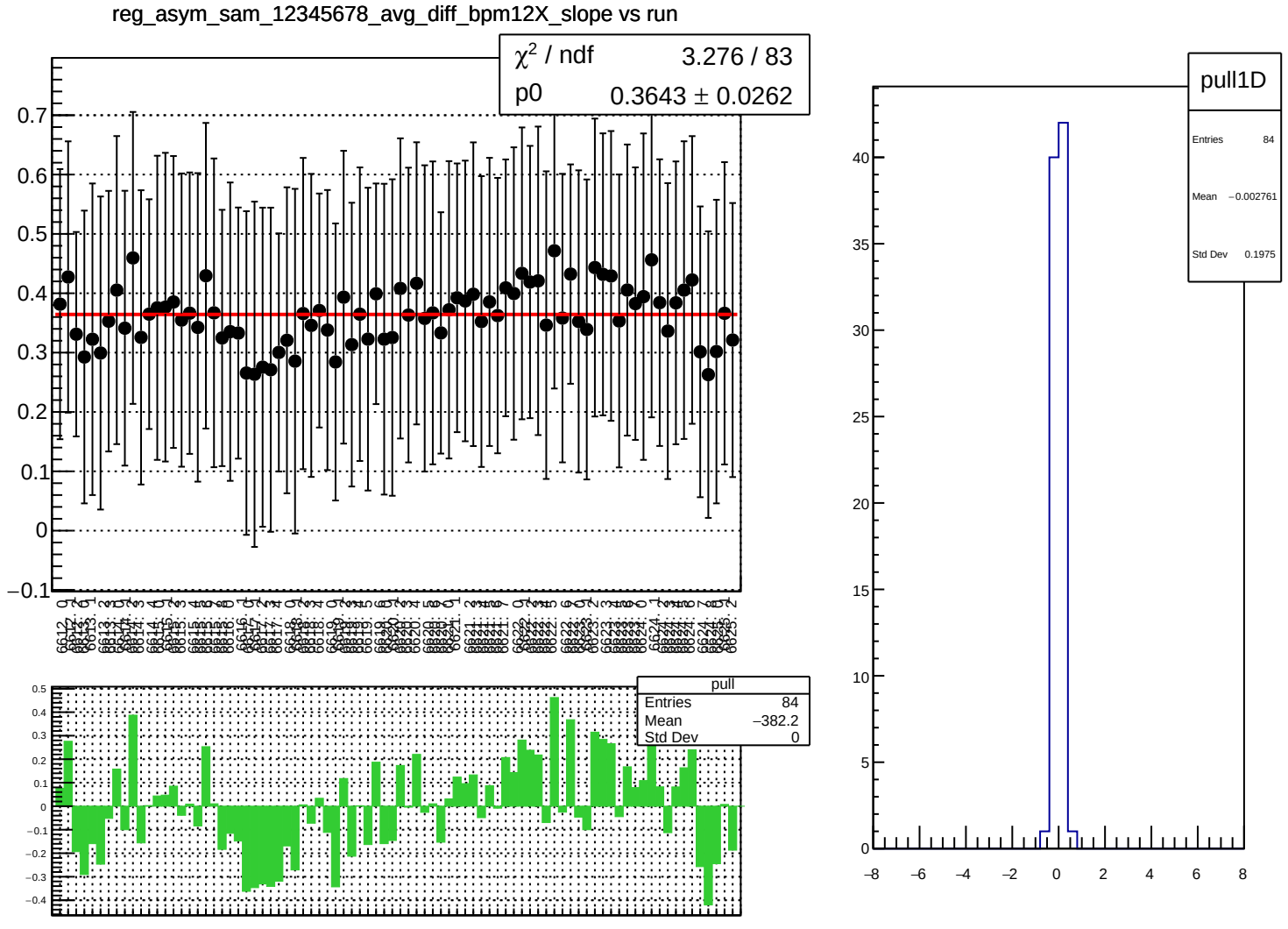

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.99 / 83
p0 0.7044 ± 0.4407
pull
Entries 84
Mean 59.85
Std Dev 68.27

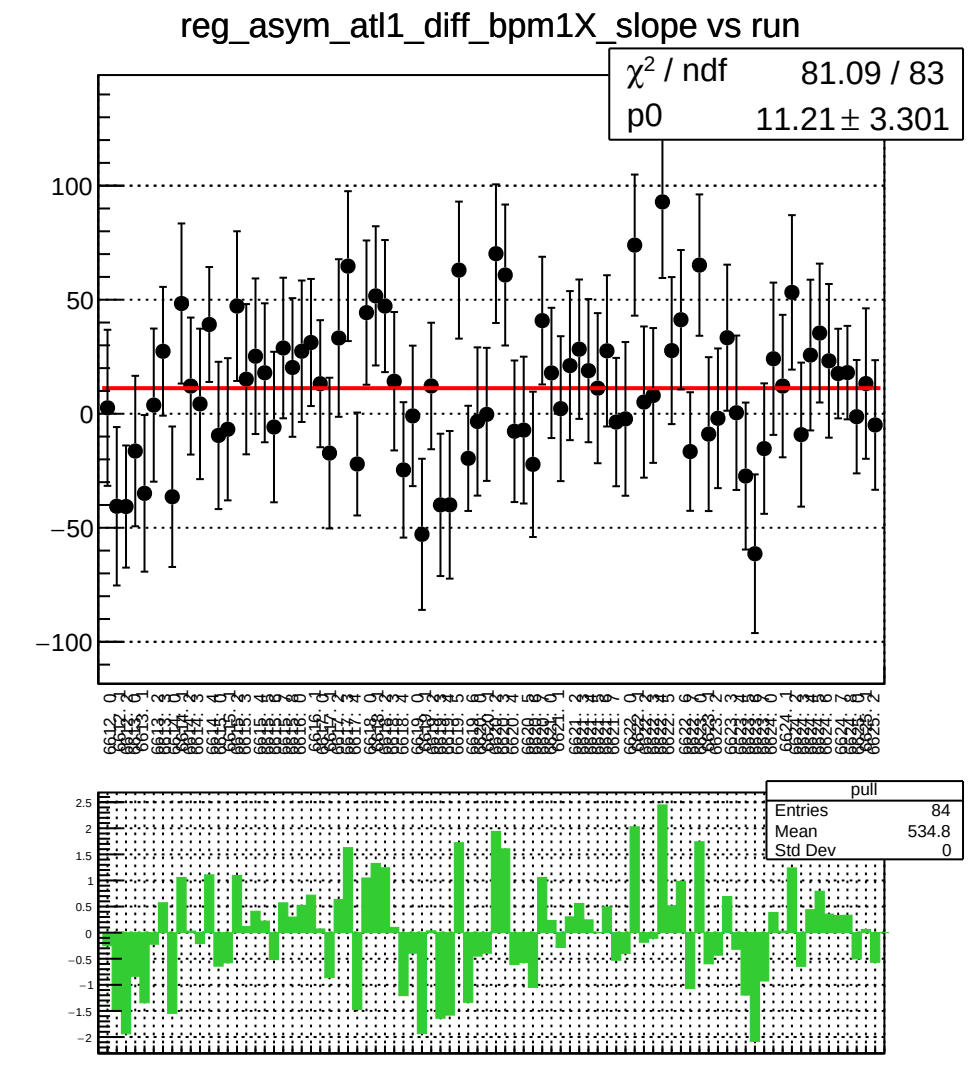

pull1D
Entries 84
Mean −0.02579
Std Dev 0.5225

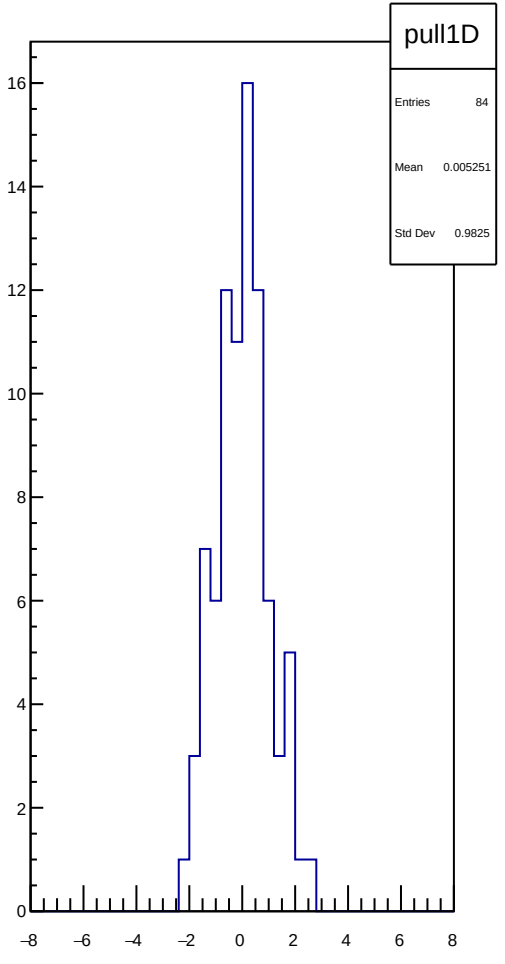

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 63.01 / 83
p0 −56.49 ± 0.6294
pull
Entries 84
Mean 158.6
Std Dev 0

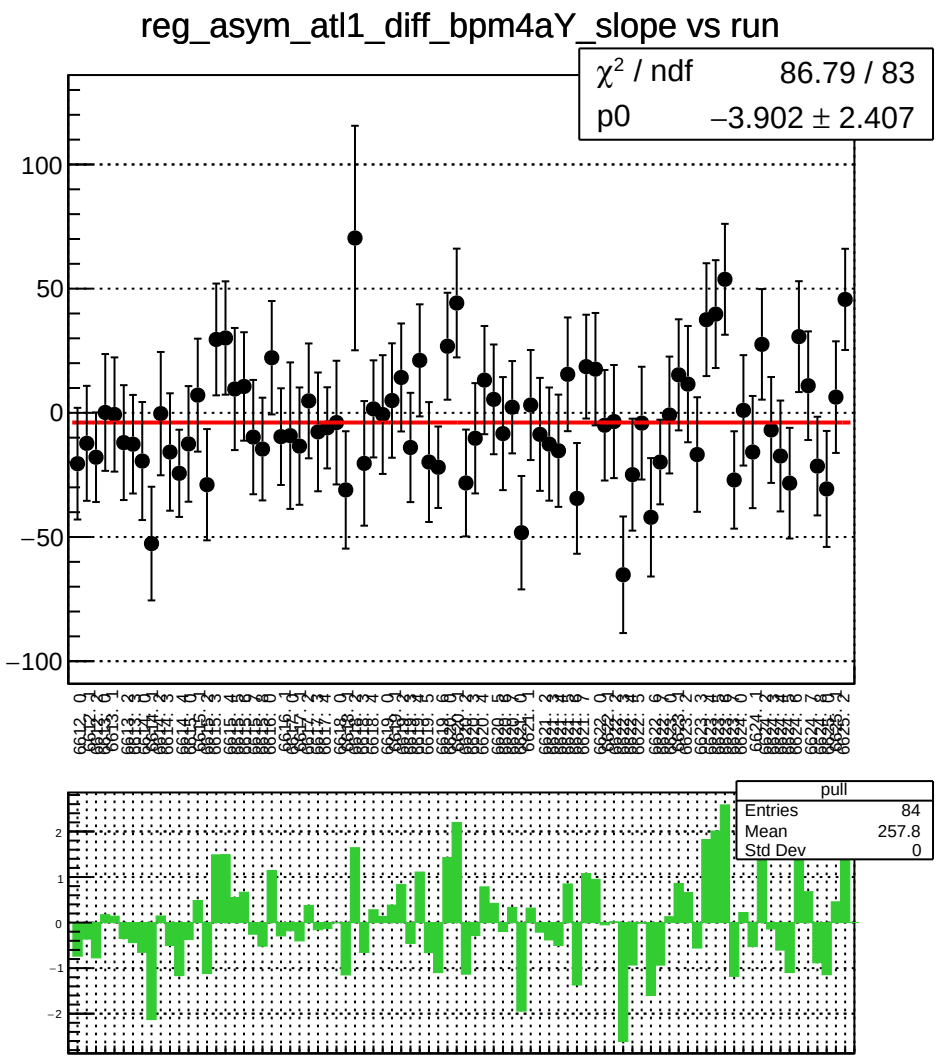

pull1D
Entries 84
Mean −0.0244
Std Dev 0.8658

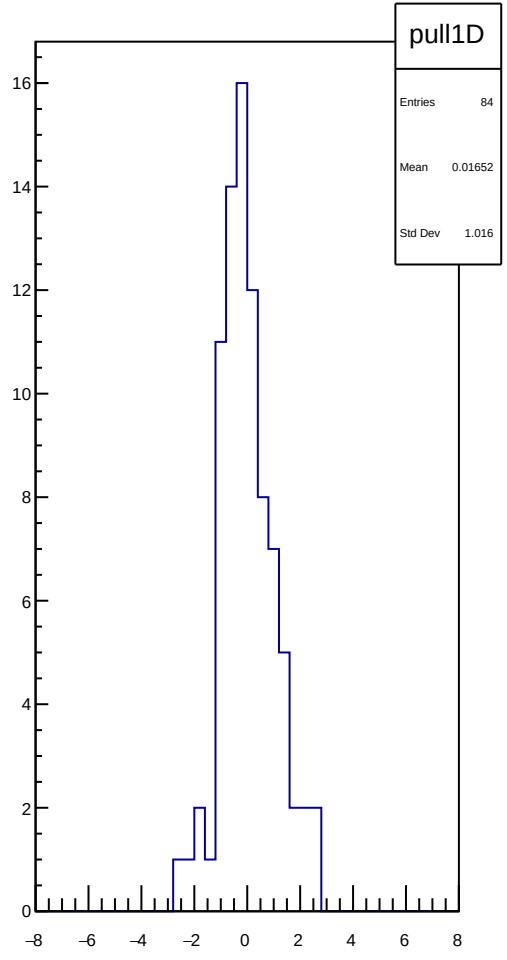

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.5 / 83
p0 37.25 ± 0.523
pull
Entries 84
Mean 79.3
Std Dev 50.68
pull1D
Entries 84
Mean 0.02388
Std Dev 0.5054

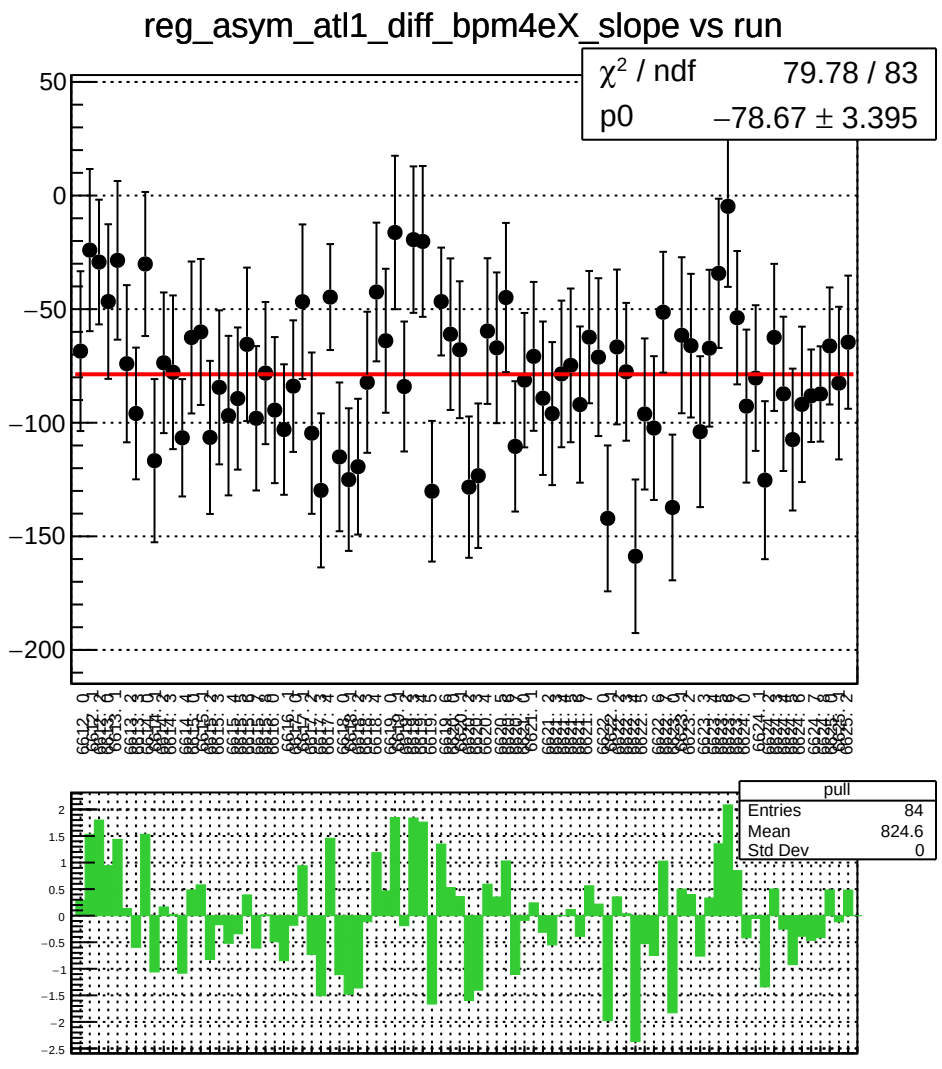

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 3.276 / 83
p0 0.3643 ± 0.0262
pull
Entries 84
Mean −382.2
Std Dev 0
pull1D
Entries 84
Mean −0.002761
Std Dev 0.1975

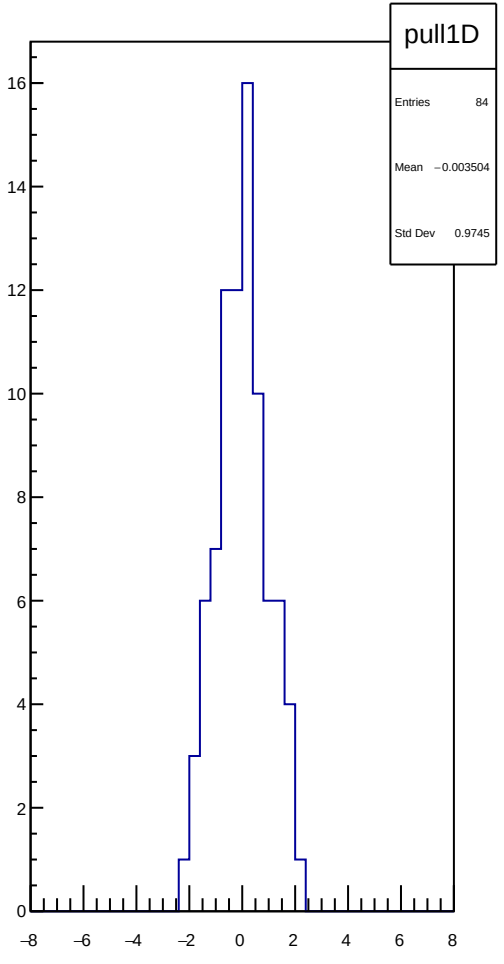

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 81.09 / 83
p0 11.21 ± 3.301
100
50
0
−50
−100
pull
Entries 84
Mean 534.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

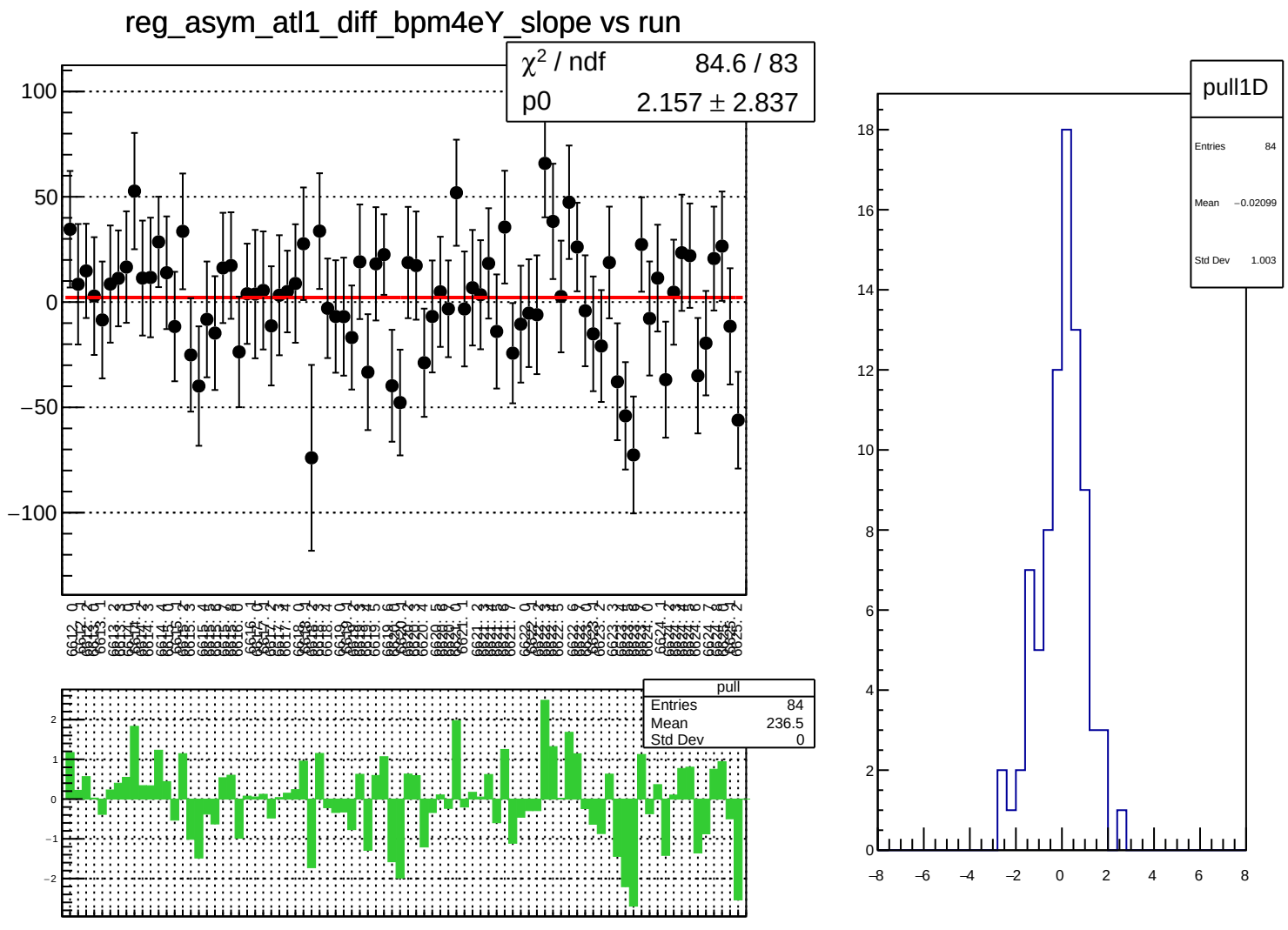

pull1D
Entries 84
Mean 0.005251
Std Dev 0.9825
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

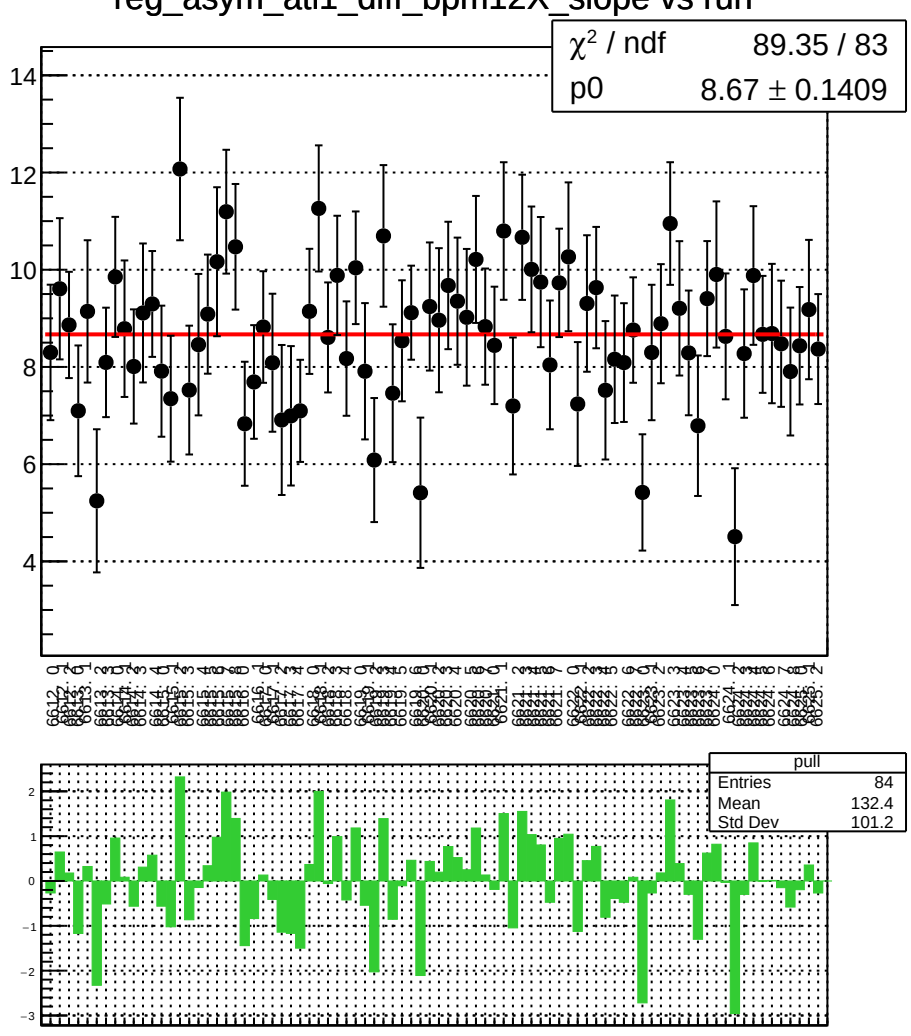

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 86.79 / 83
p0 −3.902 ± 2.407
100
50
0
−50
−100
pull
Entries 84
Mean 257.8
Std Dev 0
2
1
0
−1
−2

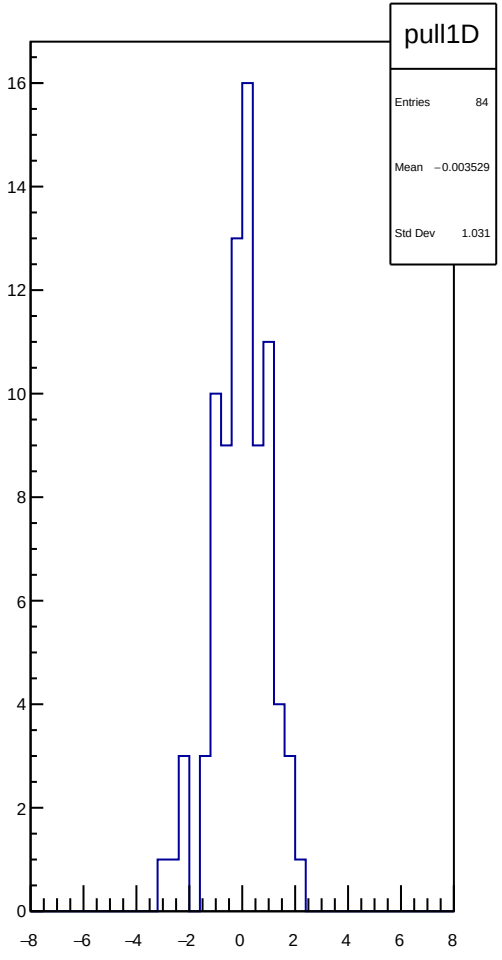

pull1D
Entries 84
Mean 0.01652
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

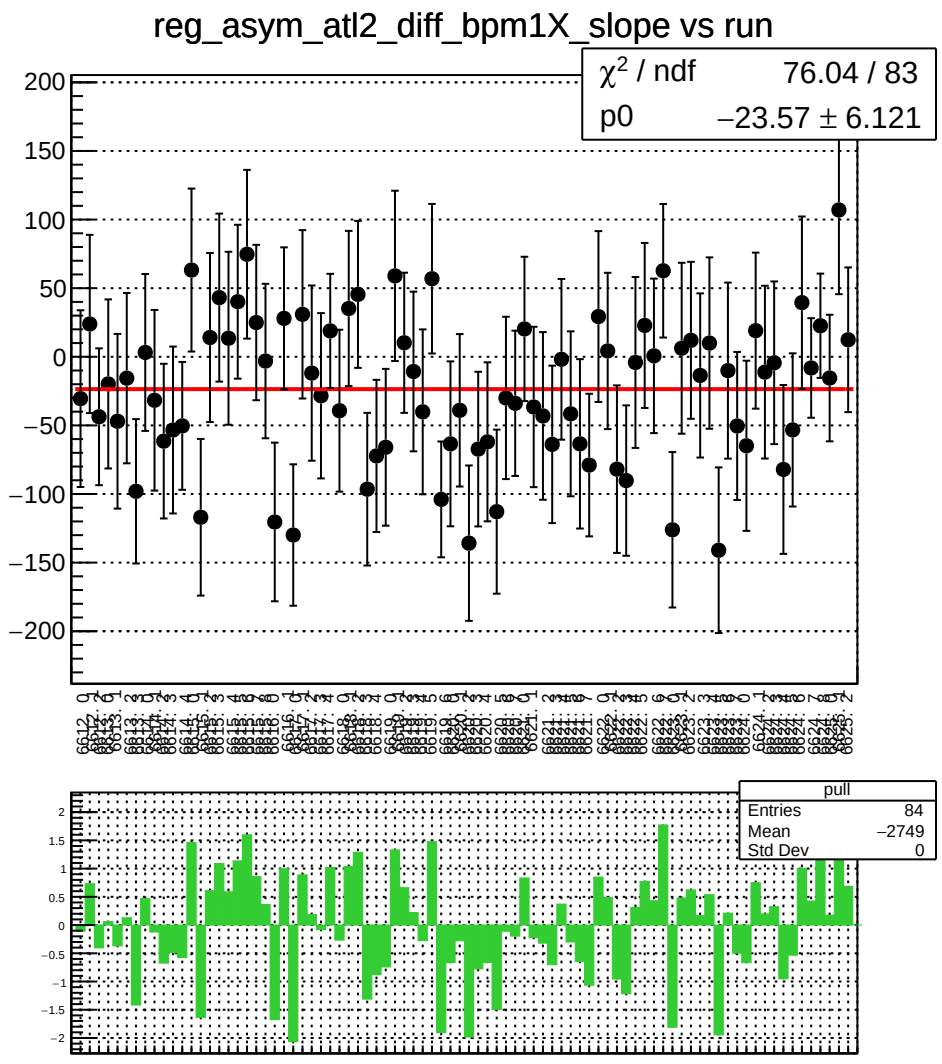

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 79.78 / 83
p0 −78.67 ± 3.395
pull
Entries 84
Mean 824.6
Std Dev 0

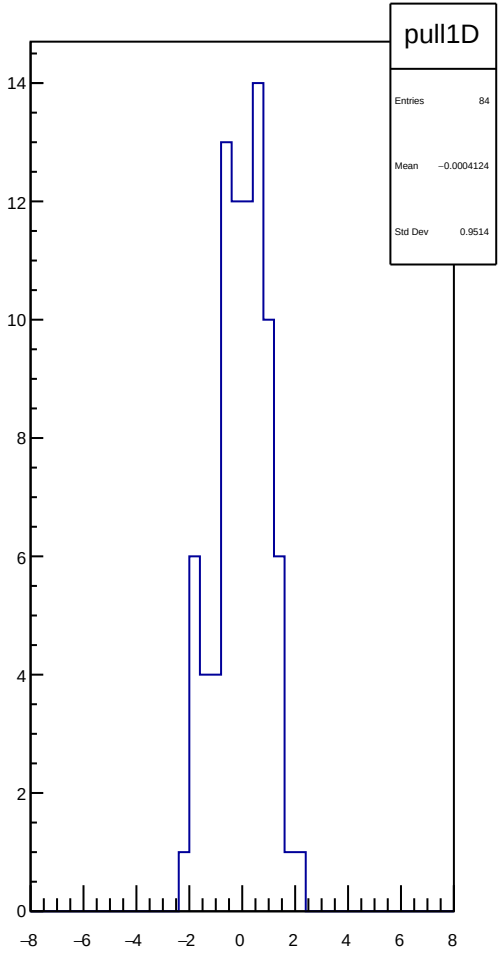

pull1D
Entries 84
Mean −0.003504
Std Dev 0.9745

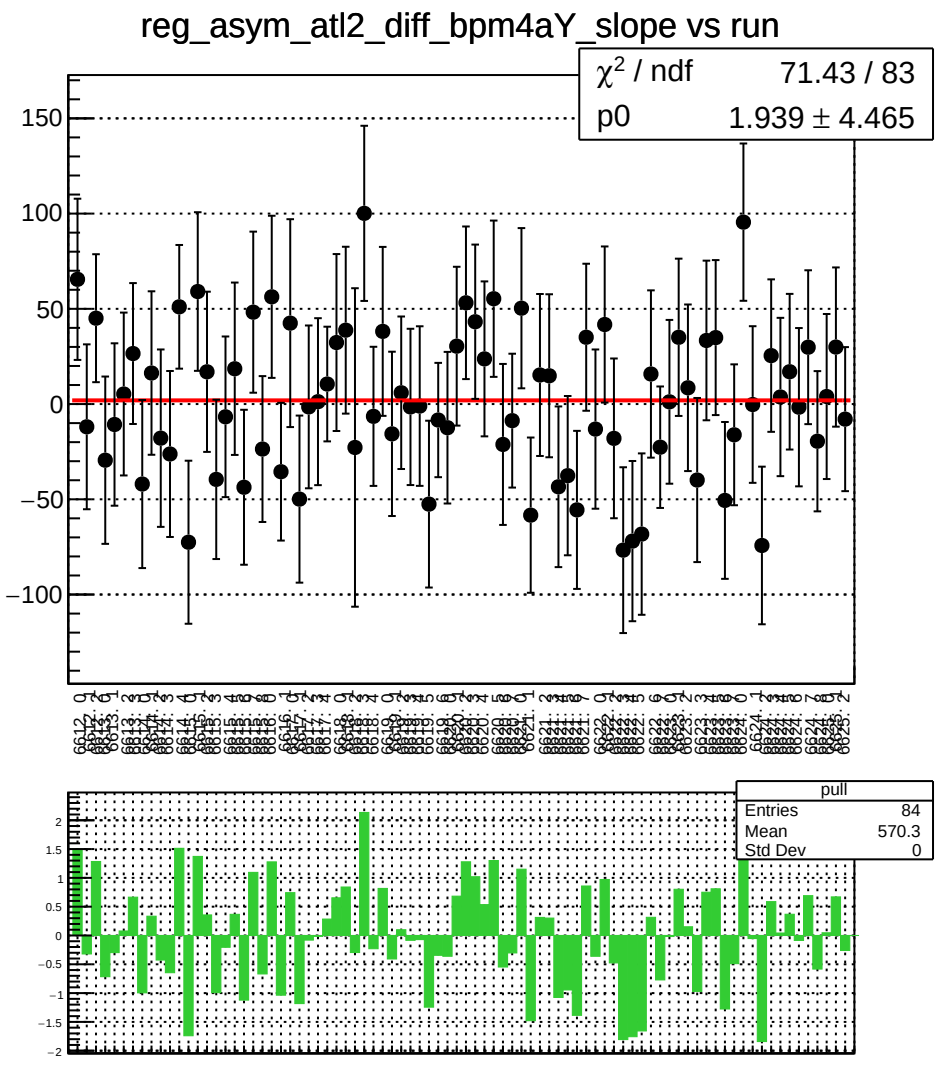

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 84.6 / 83
p0 2.157 ± 2.837
pull
Entries 84
Mean 236.5
Std Dev 0
pull1D
Entries 84
Mean −0.02099
Std Dev 1.003

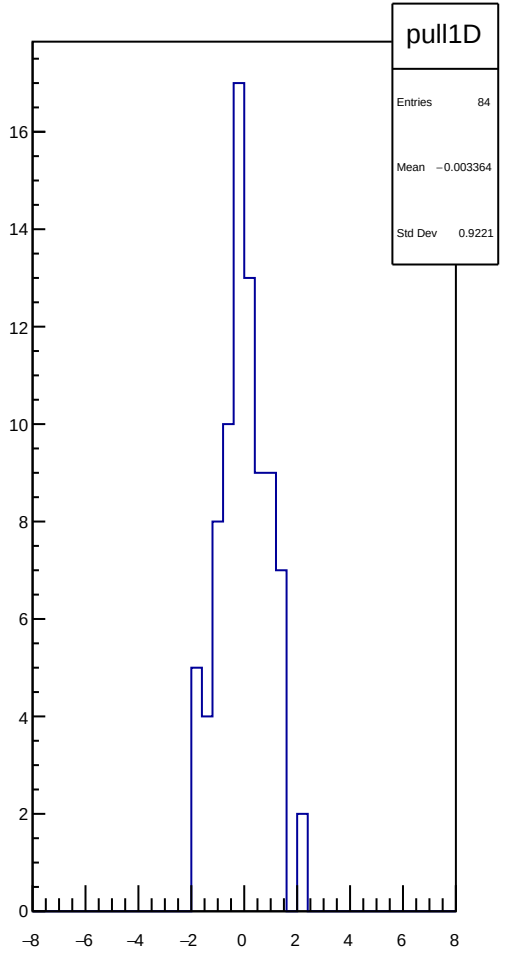

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 89.35 / 83
p0 8.67 ± 0.1409
pull
Entries 84
Mean 132.4
Std Dev 101.2

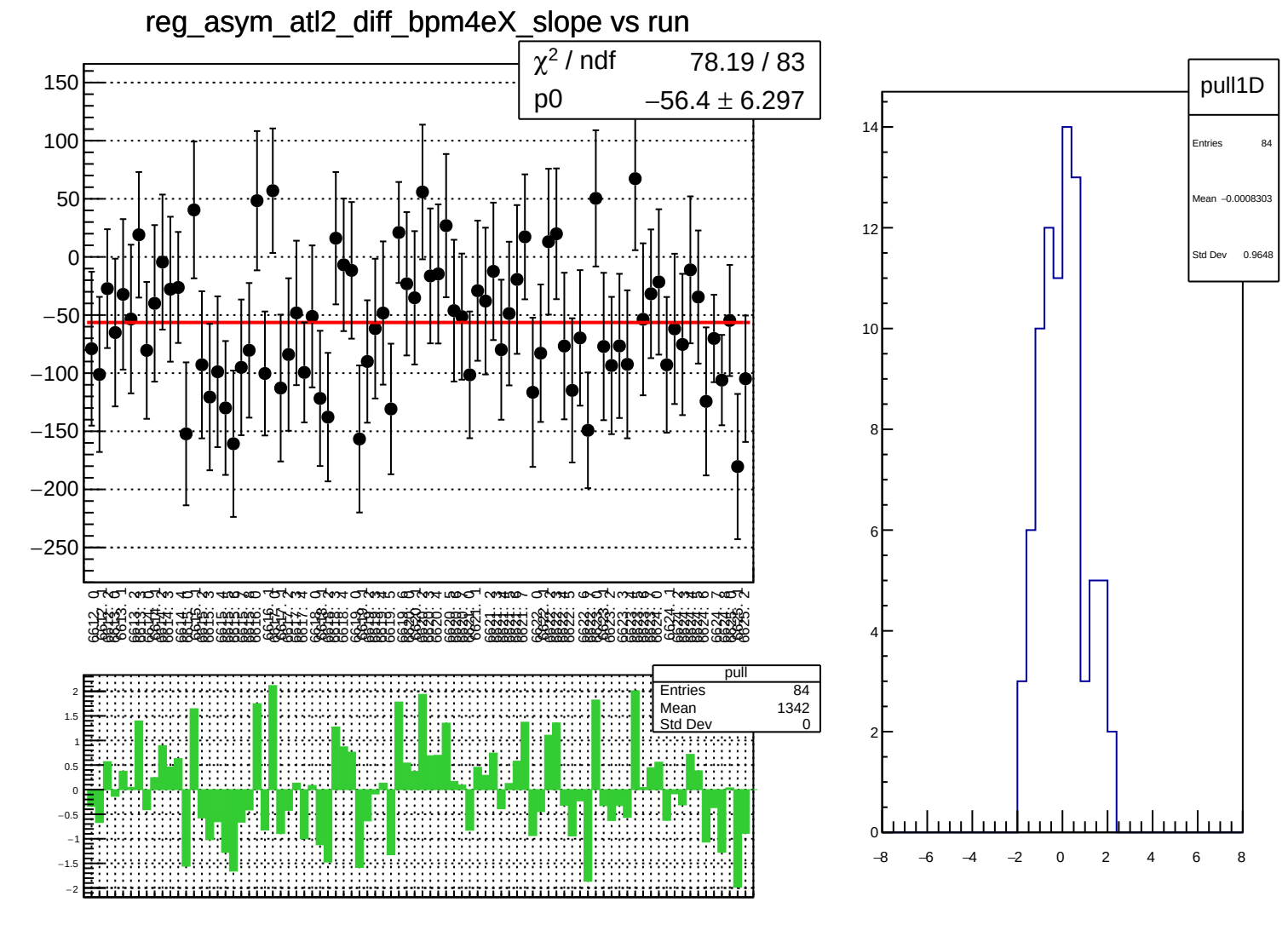

pull1D
Entries 84
Mean −0.003529
Std Dev 1.031

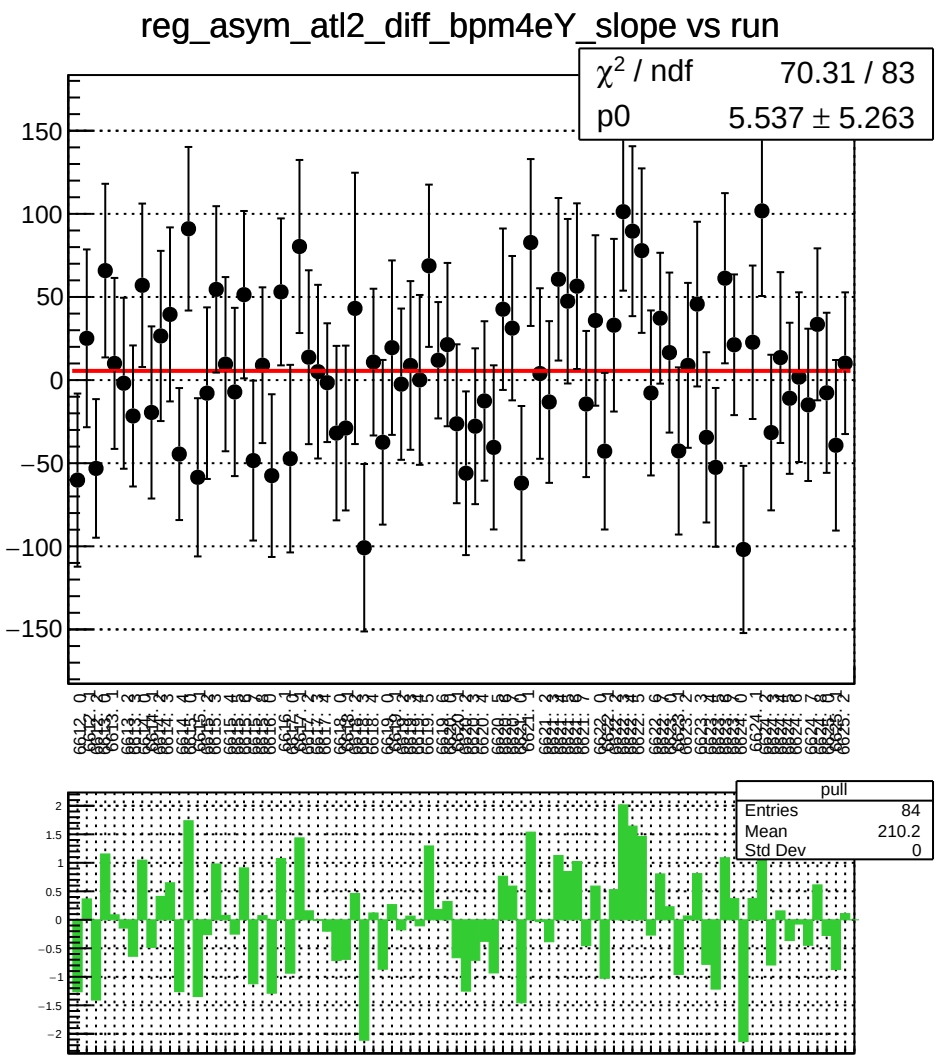

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 76.04 / 83
p0 −23.57 ± 6.121
pull
Entries 84
Mean −2749
Std Dev 0

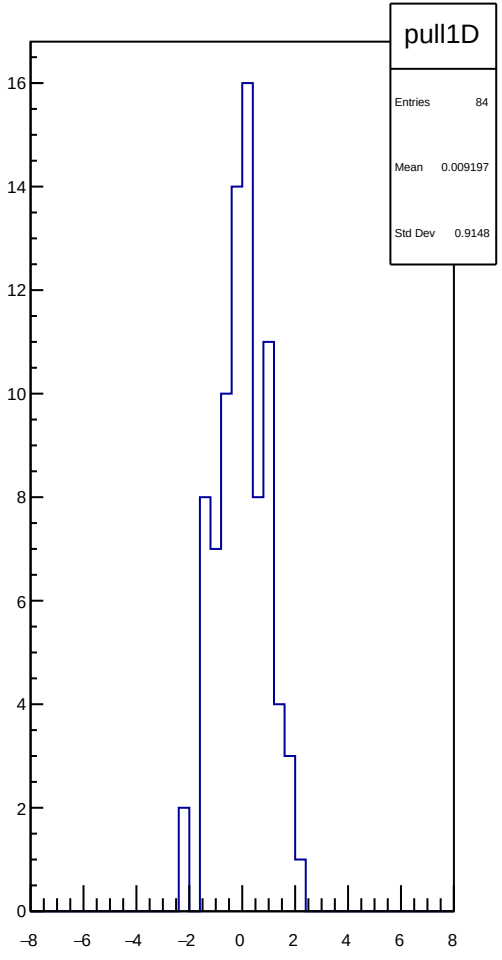

pull1D
Entries 84
Mean −0.0004124
Std Dev 0.9514

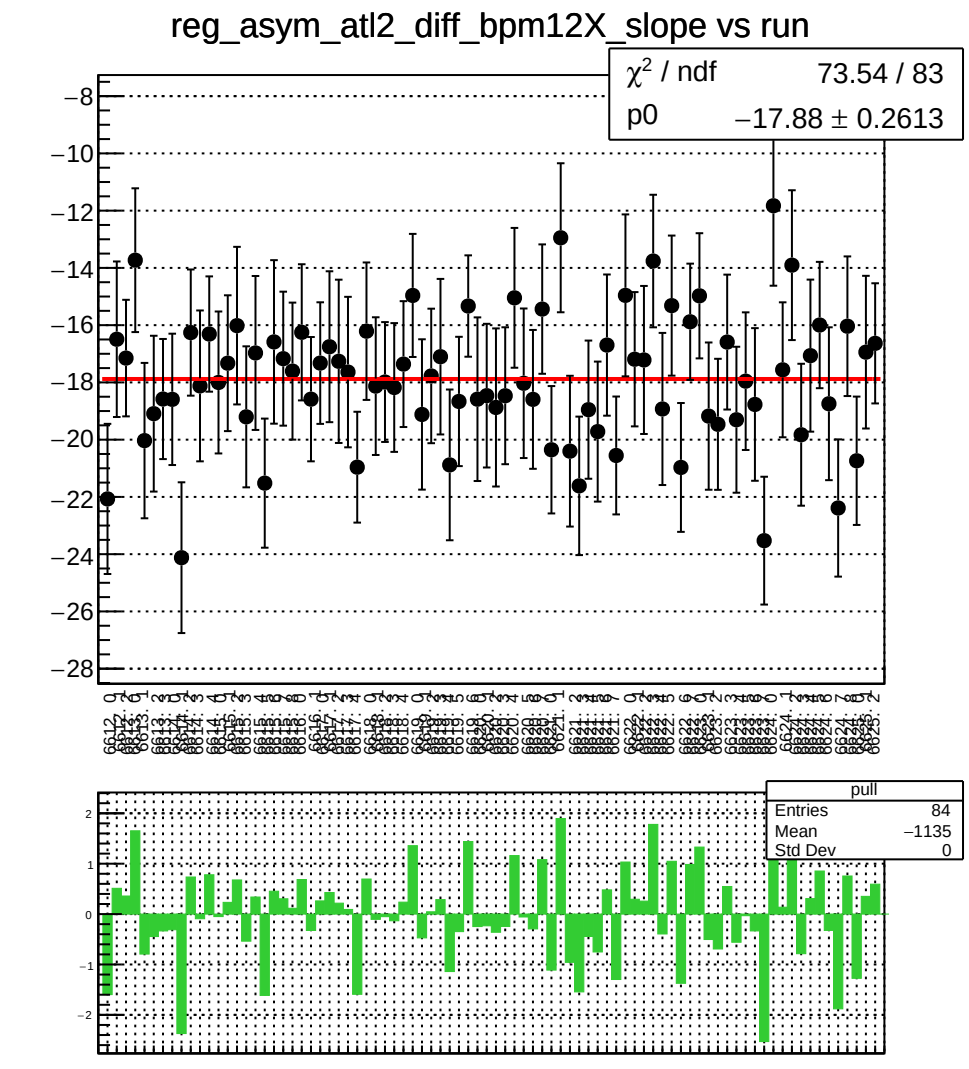

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 71.43 / 83
p0 1.939 ± 4.465
150
100
50
0
−50
−100
pull
Entries 84
Mean 570.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

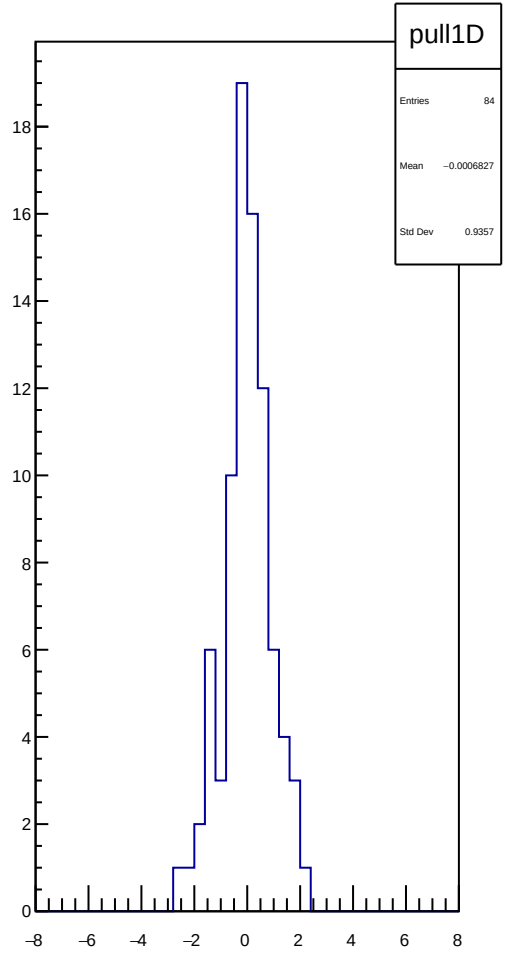

pull1D
Entries 84
Mean −0.003364
Std Dev 0.9221
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

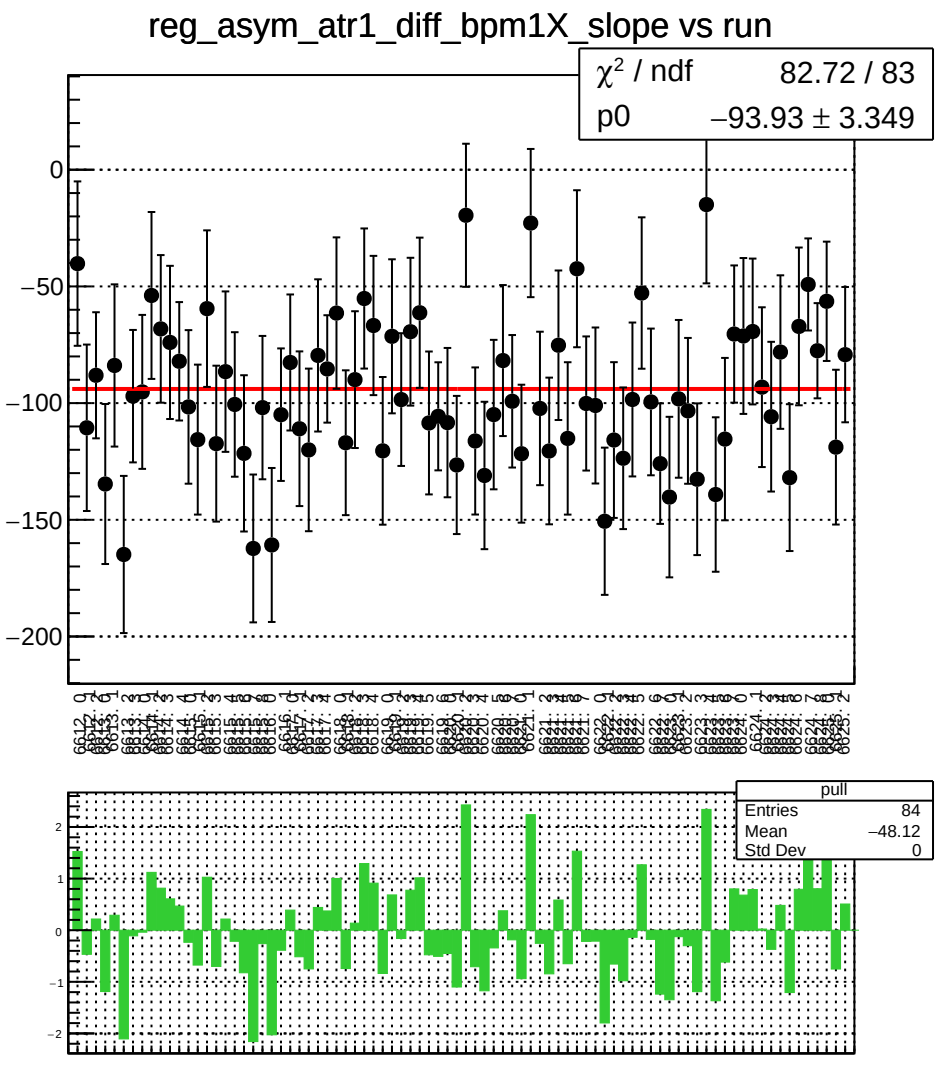

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 78.19 / 83
p0 −56.4 ± 6.297
pull
Entries 84
Mean 1342
Std Dev 0
pull1D
Entries 84
Mean −0.0008303
Std Dev 0.9648

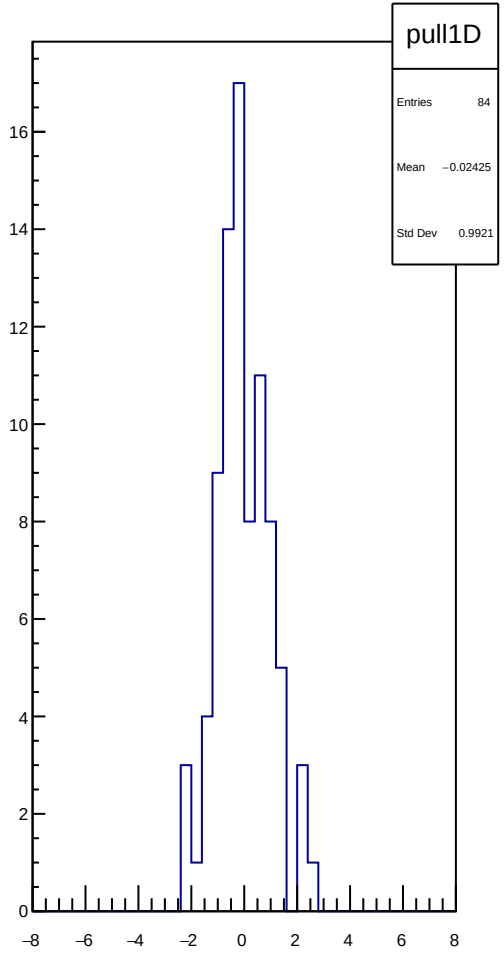

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 70.31 / 83
p0 5.537 ± 5.263
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 210.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

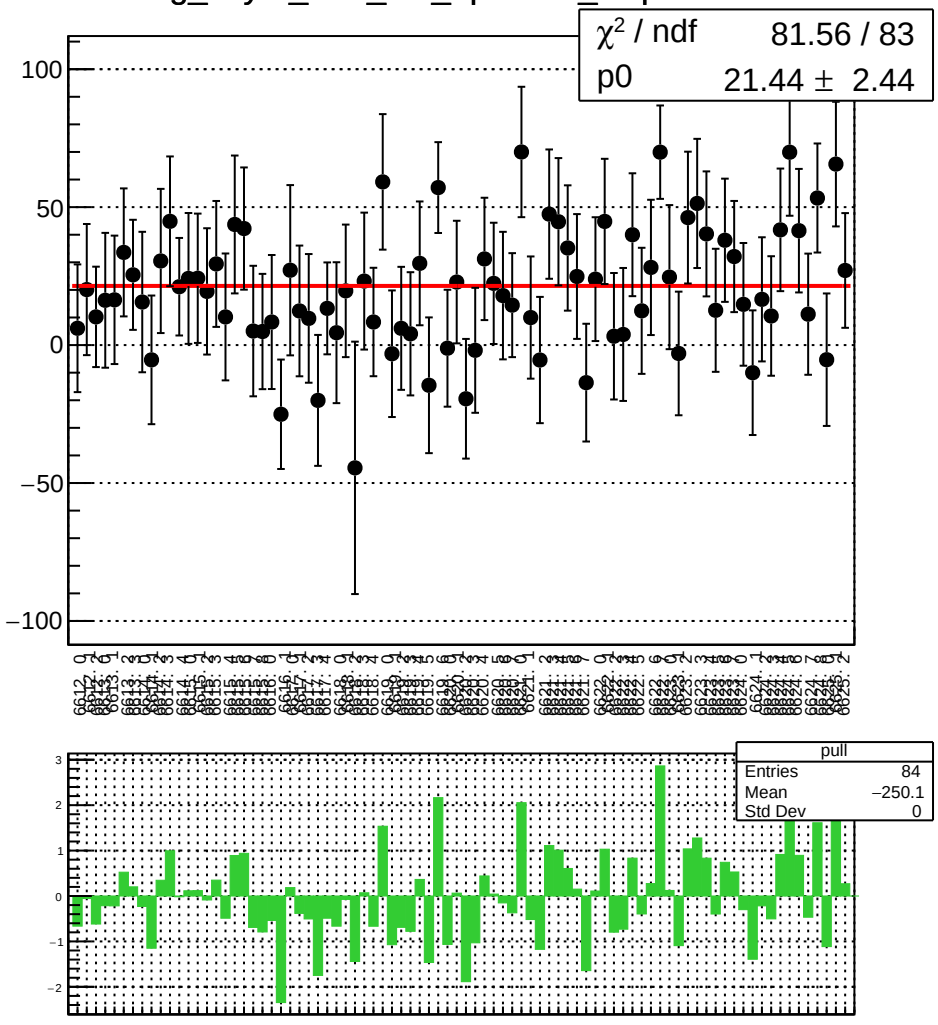

pull1D
Entries 84
Mean 0.009197
Std Dev 0.9148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

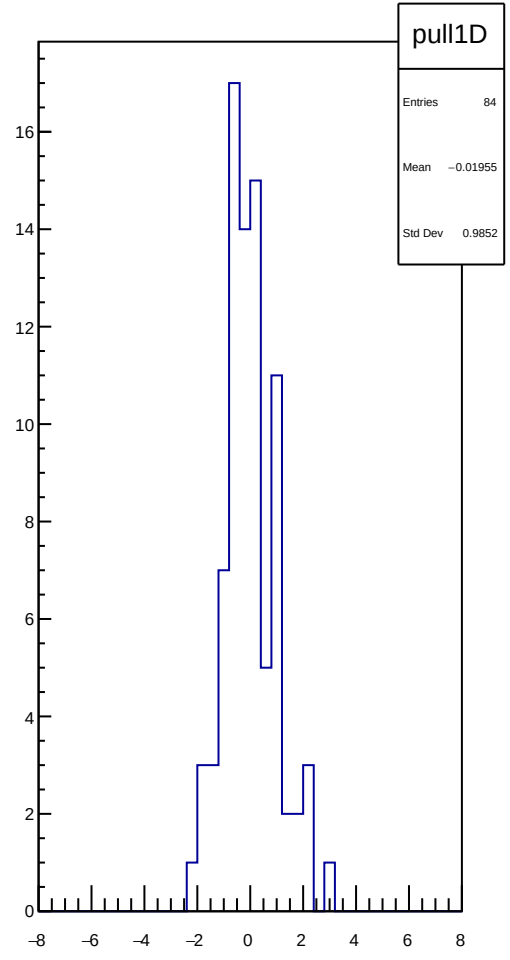

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 73.54 / 83
p0 −17.88 ± 0.2613
pull
Entries 84
Mean −1135
Std Dev 0

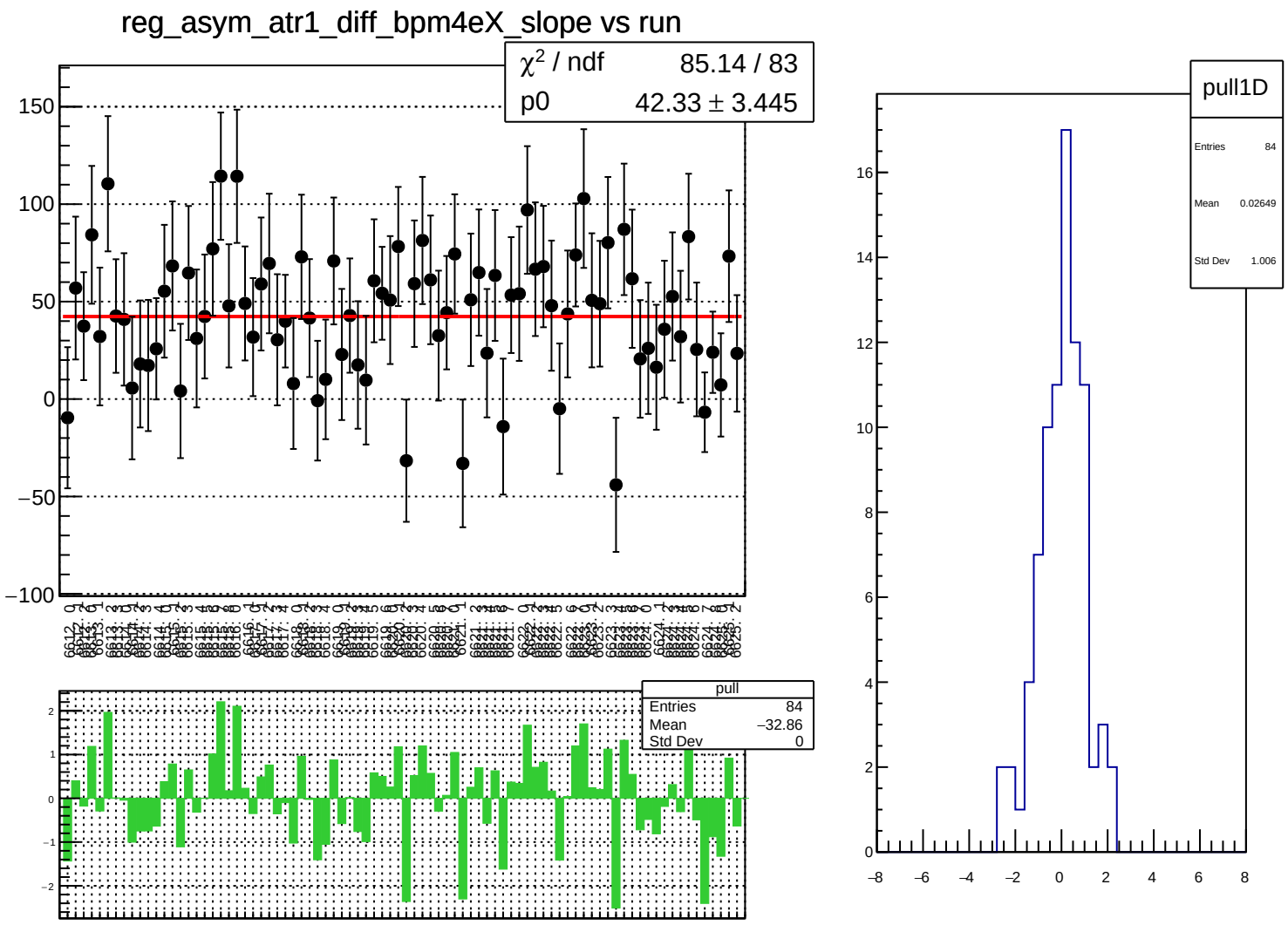

pull1D
Entries 84
Mean −0.0006827
Std Dev 0.9357

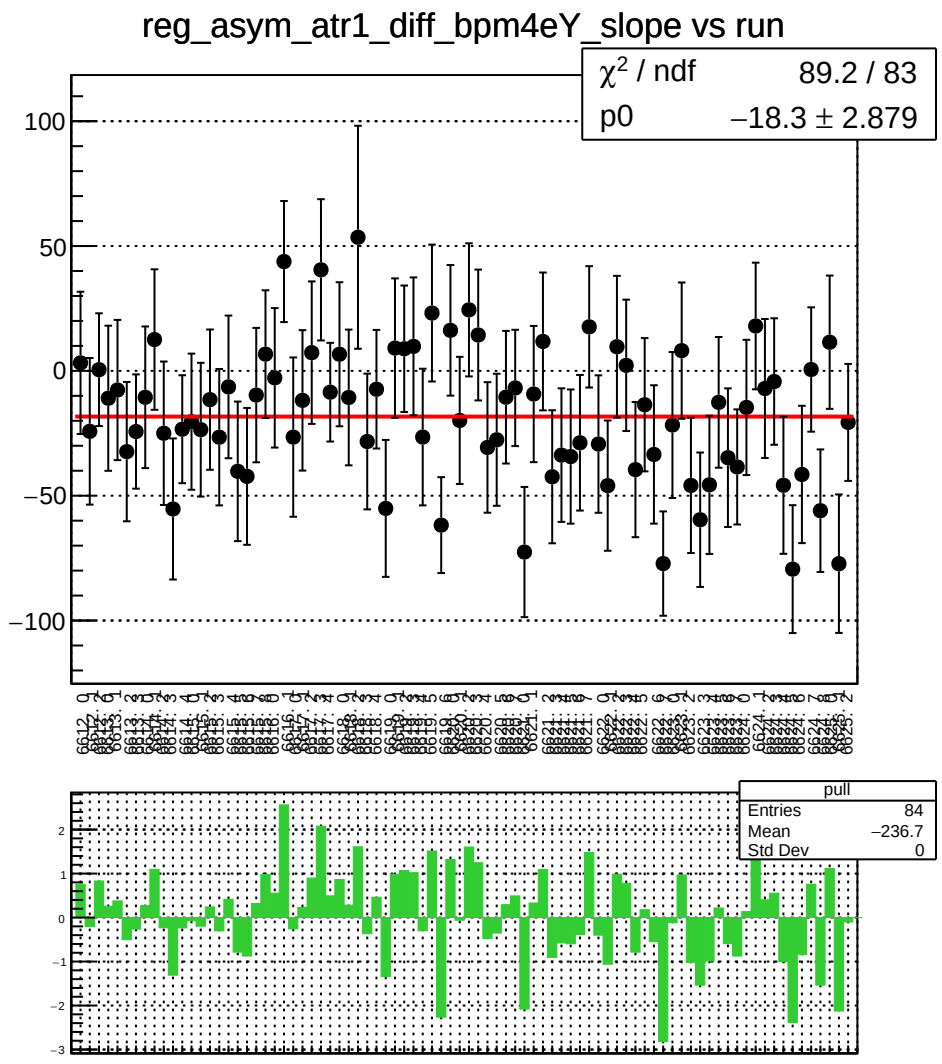

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 82.72 / 83
p0 −93.93 ± 3.349
pull
Entries 84
Mean −48.12
Std Dev 0

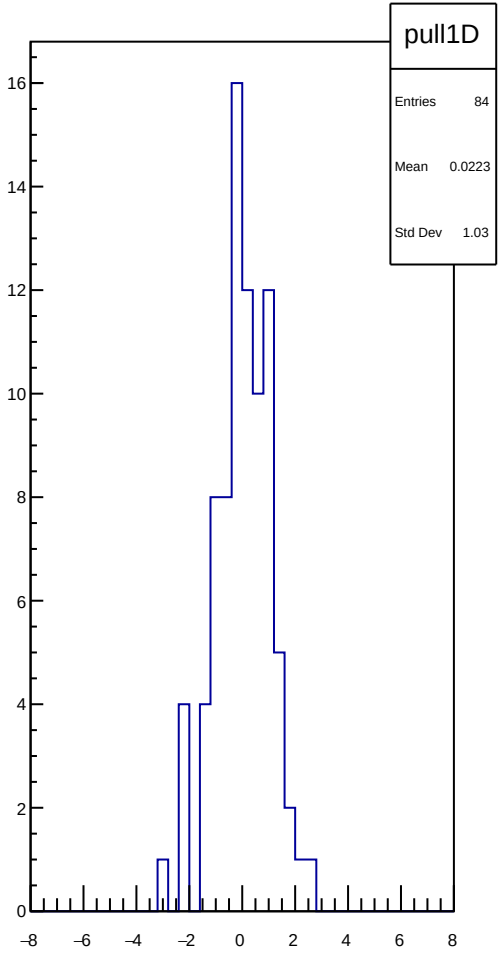

pull1D
Entries 84
Mean −0.02425
Std Dev 0.9921

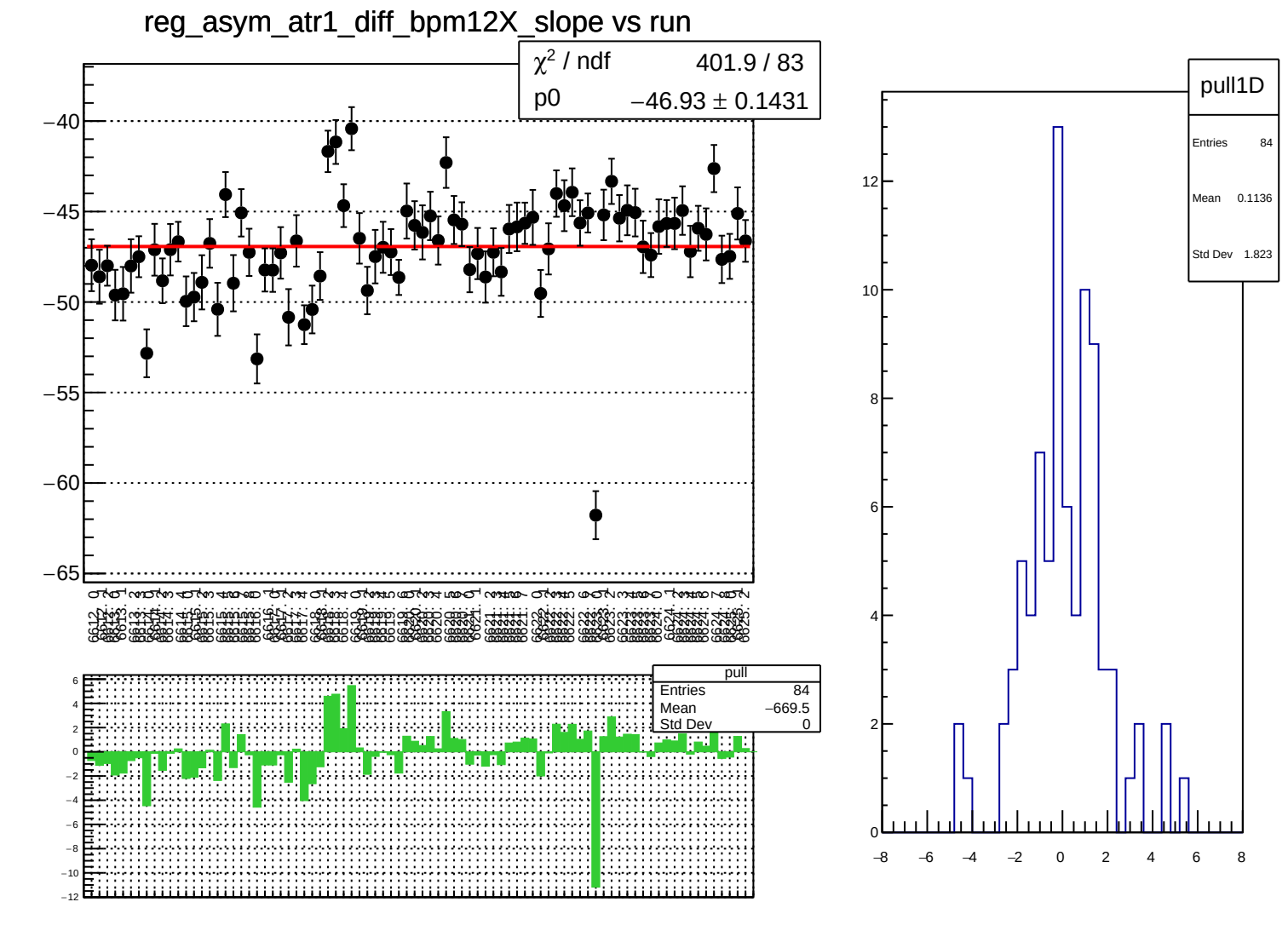

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 81.56 / 83
p0 21.44 ± 2.44
pull
Entries 84
Mean −250.1
Std Dev 0

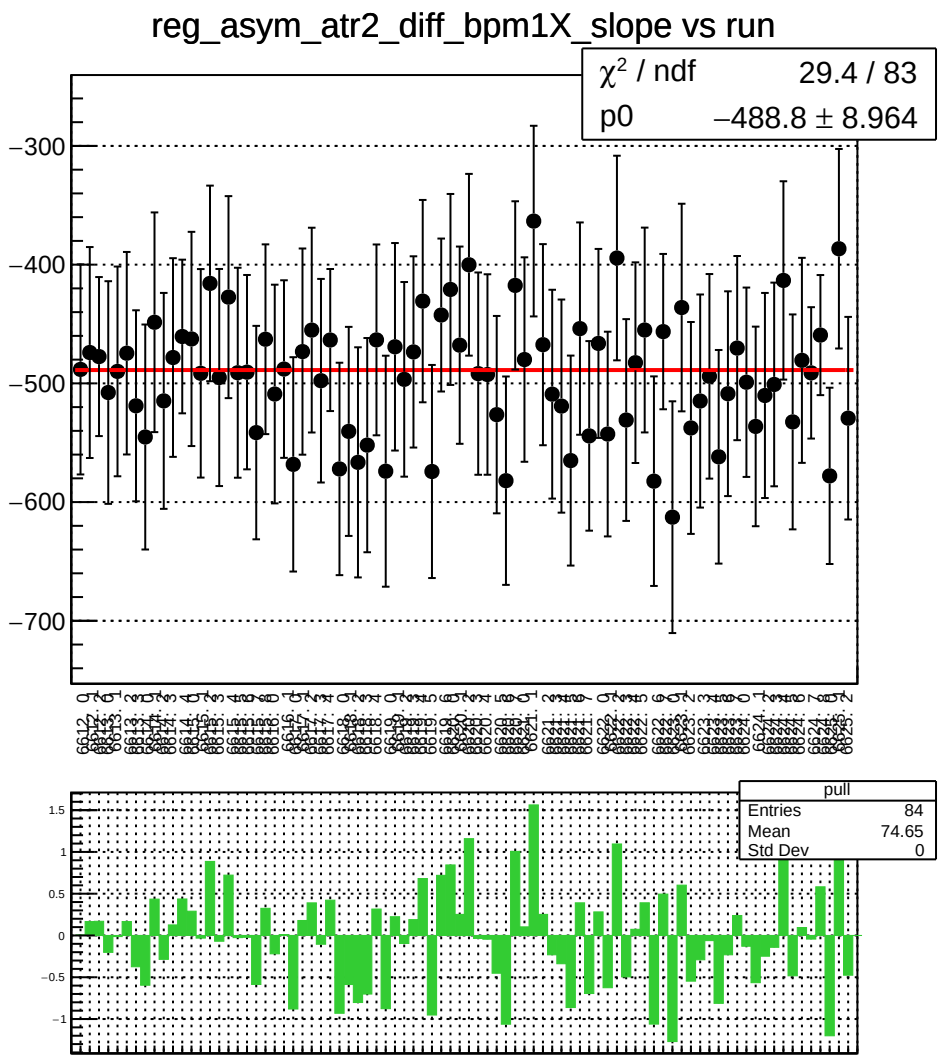

pull1D
Entries 84
Mean −0.01955
Std Dev 0.9852

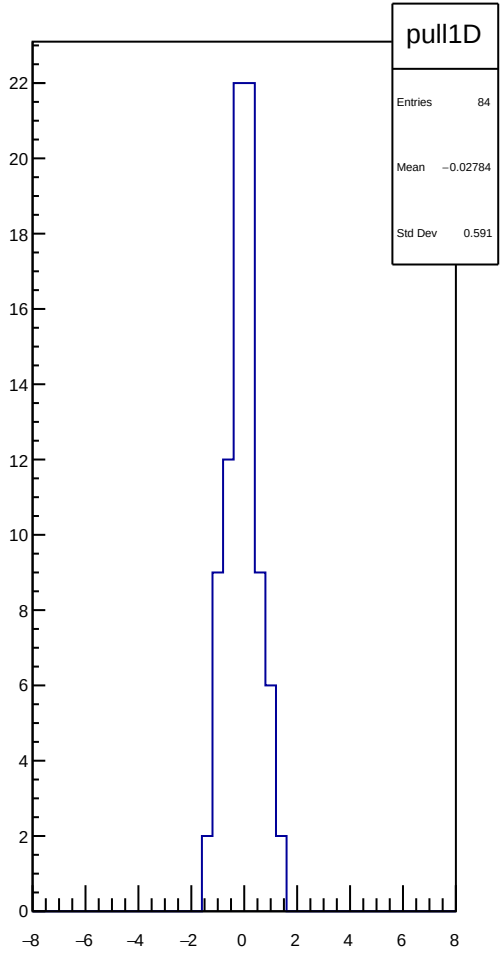

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 85.14 / 83
p0 42.33 ± 3.445
150
100
50
0
−50
−100
pull
Entries 84
Mean −32.86
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.02649
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

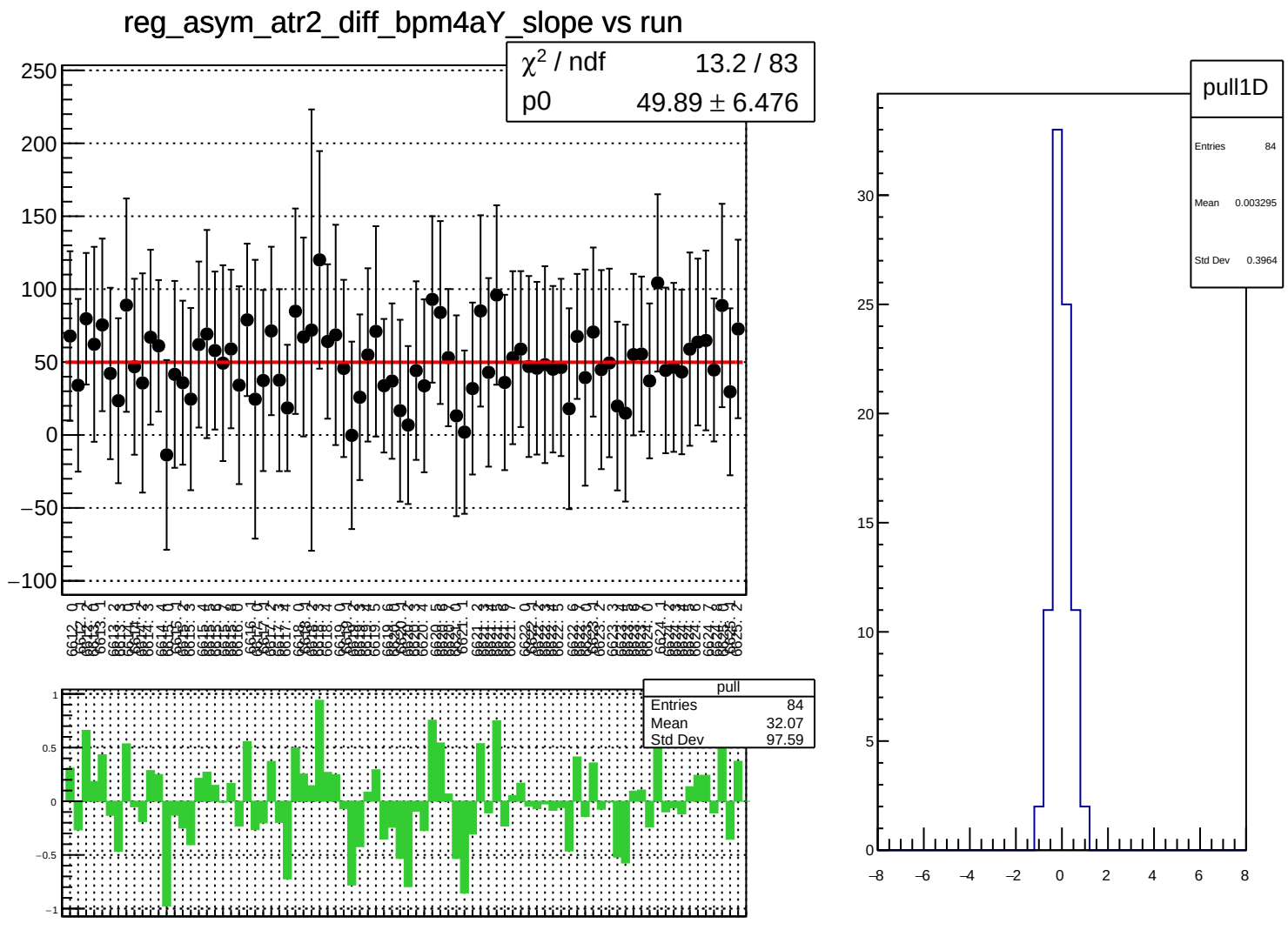

reg_asym_atr1_diff_bpm4eY_slope vs run
χ^2 / ndf 89.2 / 83
p0 −18.3 ± 2.879
pull
Entries 84
Mean −236.7
Std Dev 0

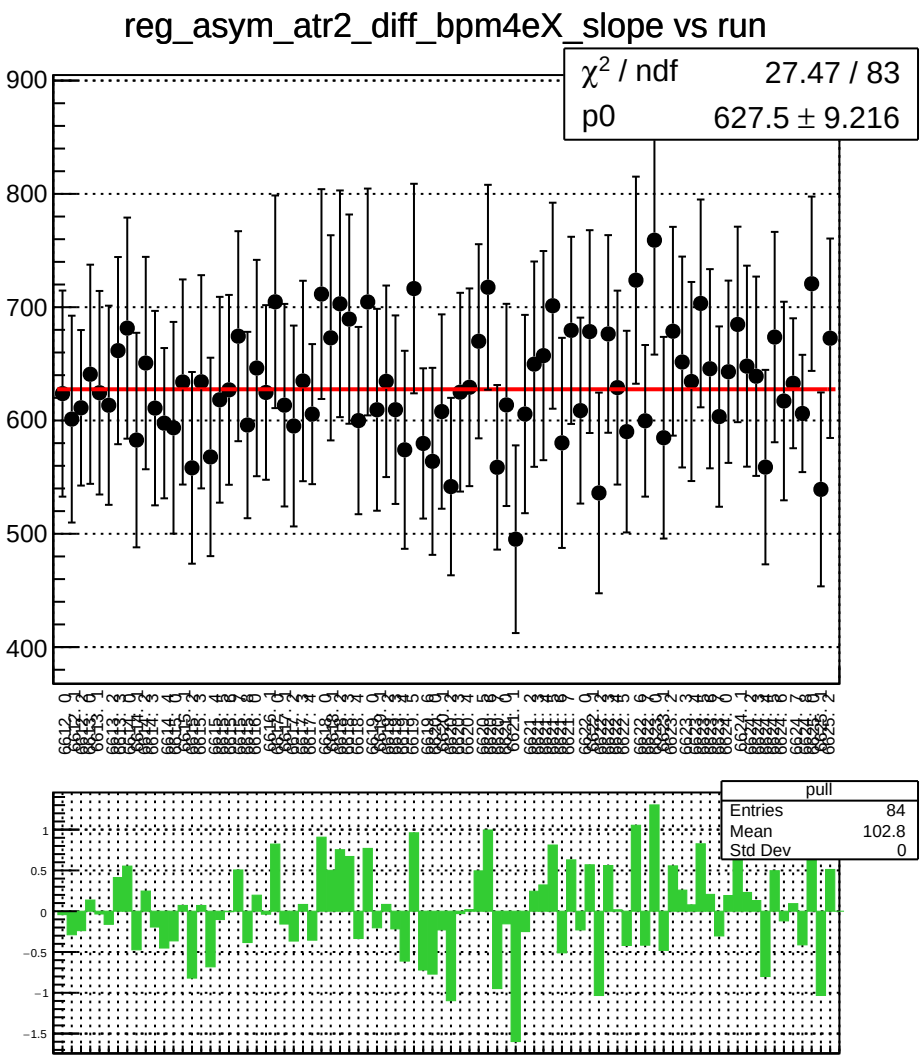

pull1D
Entries 84
Mean 0.0223
Std Dev 1.03

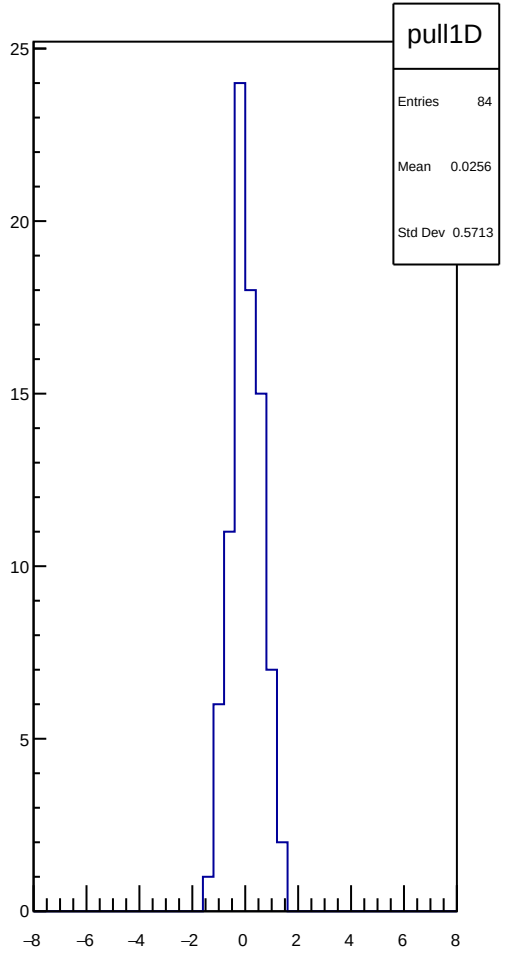

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 401.9 / 83
p0 −46.93 ± 0.1431
pull
Entries 84
Mean −669.5
Std Dev 0
pull1D
Entries 84
Mean 0.1136
Std Dev 1.823

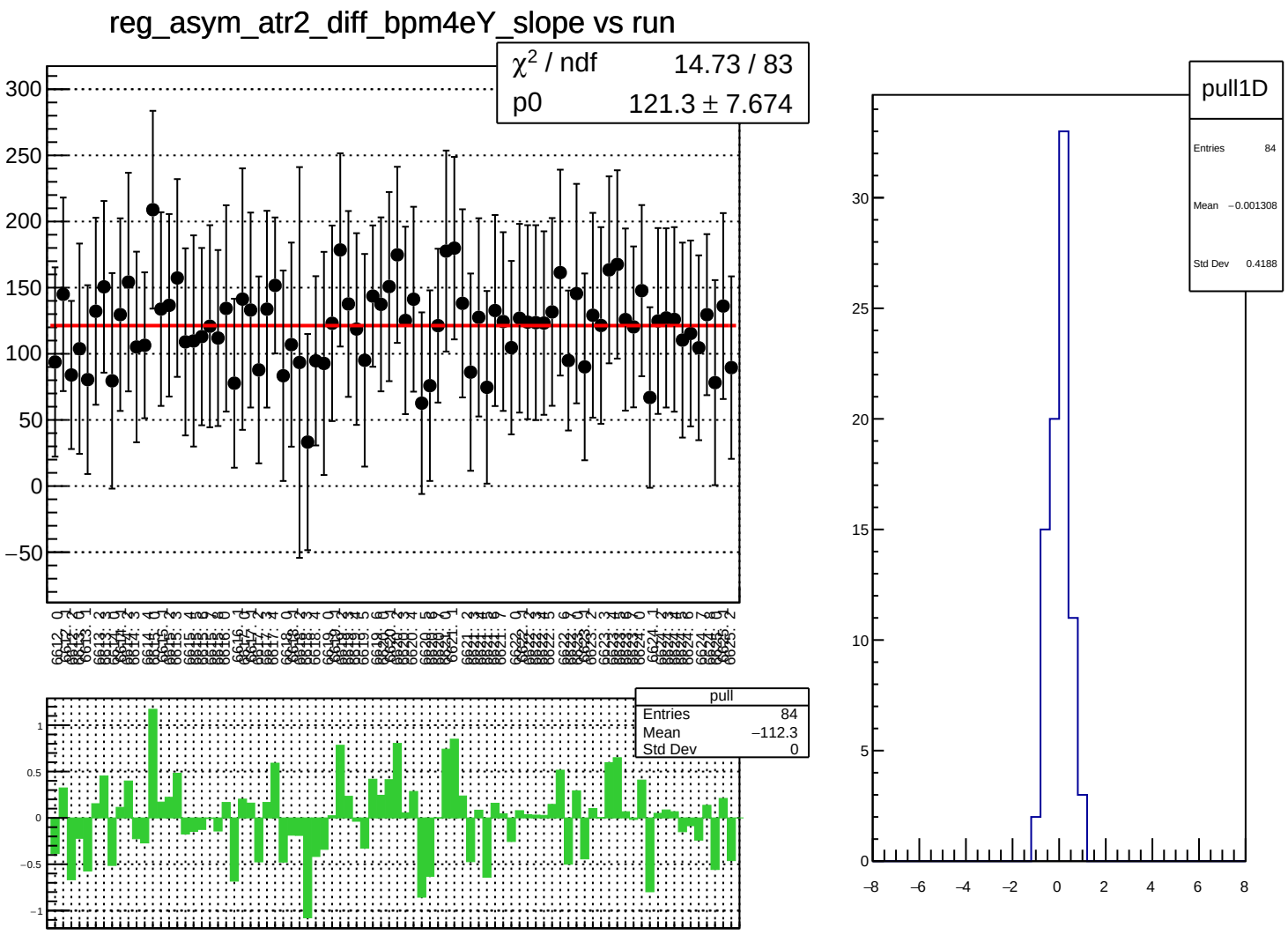

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 29.4 / 83
p0 −488.8 ± 8.964
−300
−400
−500
−600
−700
pull
Entries 84
Mean 74.65
Std Dev 0
1.5
1
0.5
0
−0.5
−1

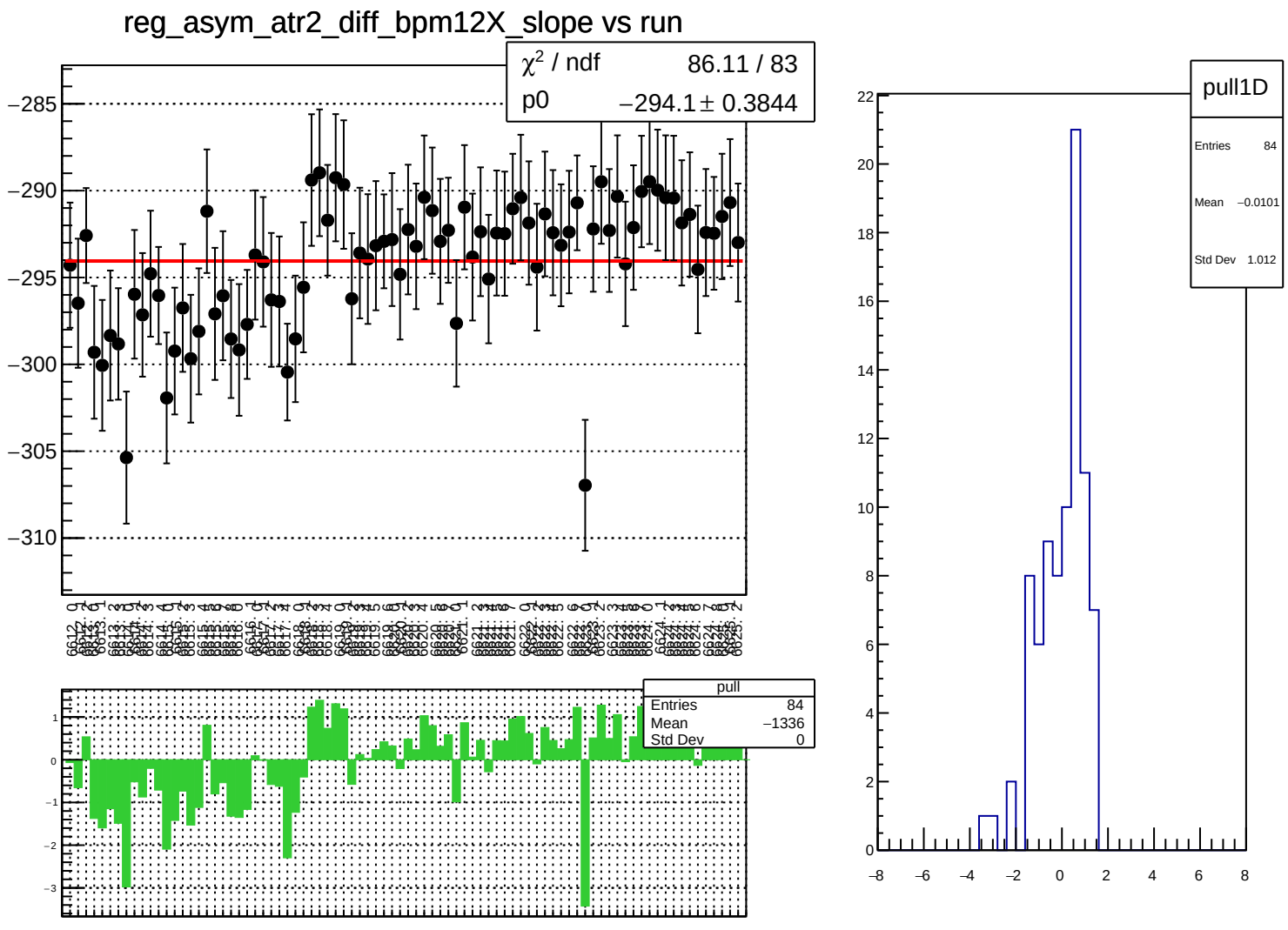

pull1D
Entries 84
Mean −0.02784
Std Dev 0.591
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

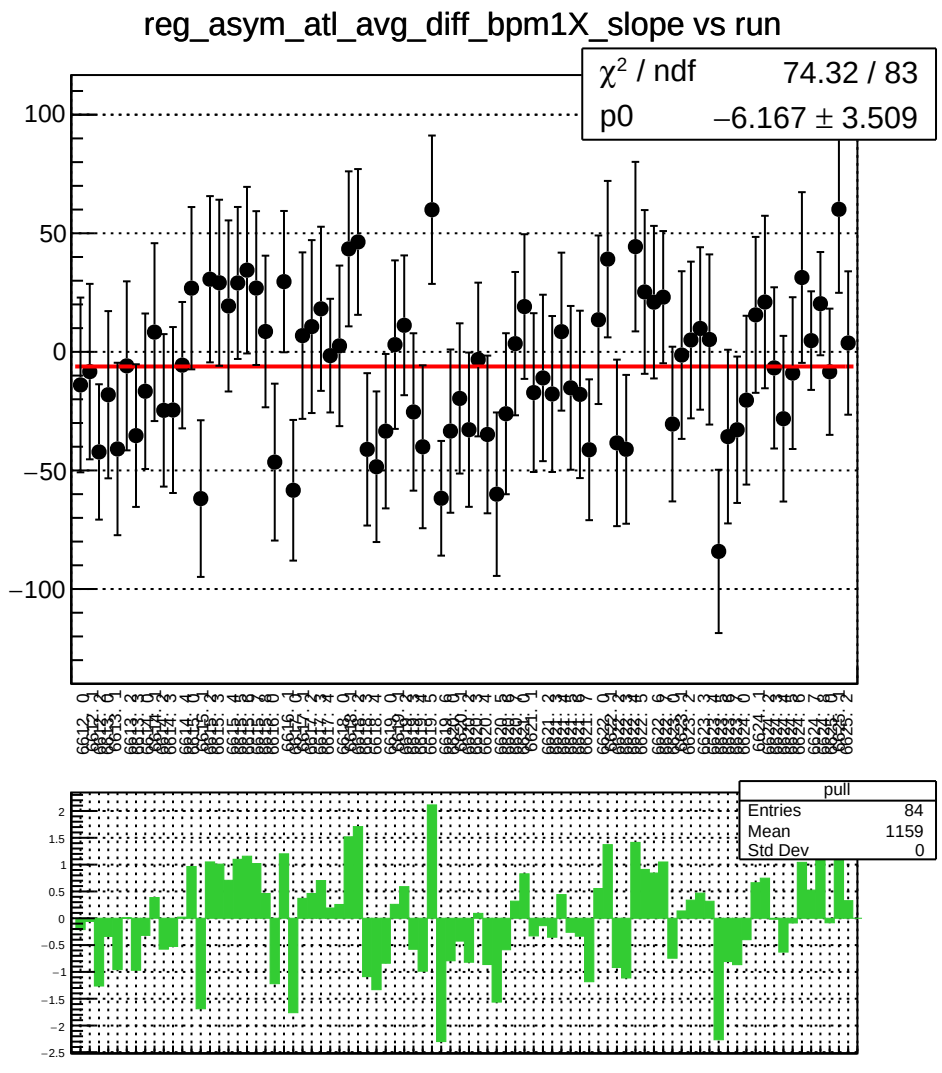

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 13.2 / 83
p0 49.89 ± 6.476
pull
Entries 84
Mean 32.07
Std Dev 97.59
pull1D
Entries 84
Mean 0.003295
Std Dev 0.3964

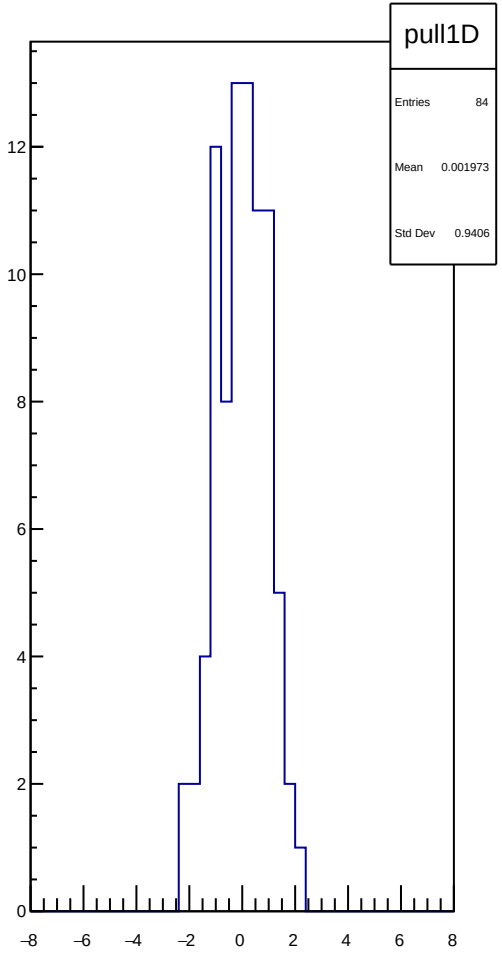

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 27.47 / 83
p0 627.5 ± 9.216
900
800
700
600
500
400
pull
Entries 84
Mean 102.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

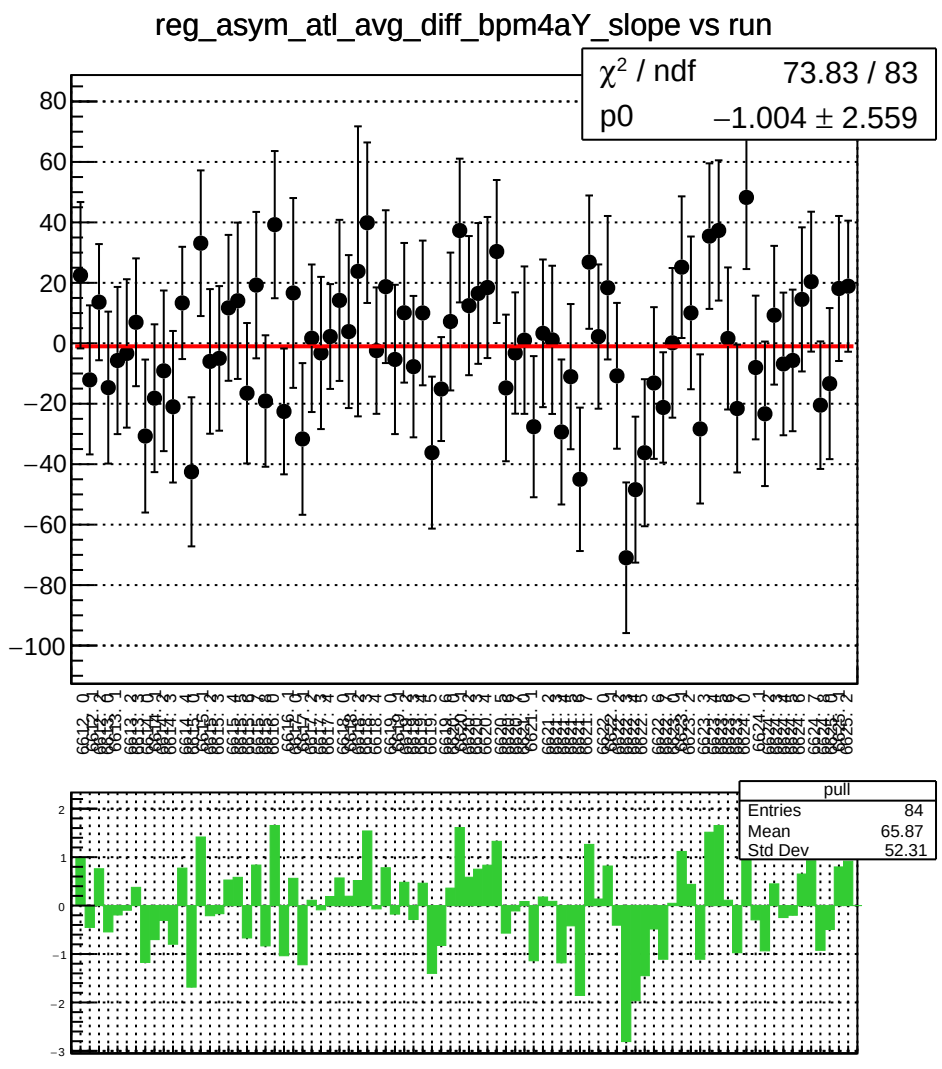

pull1D
Entries 84
Mean 0.0256
Std Dev 0.5713
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

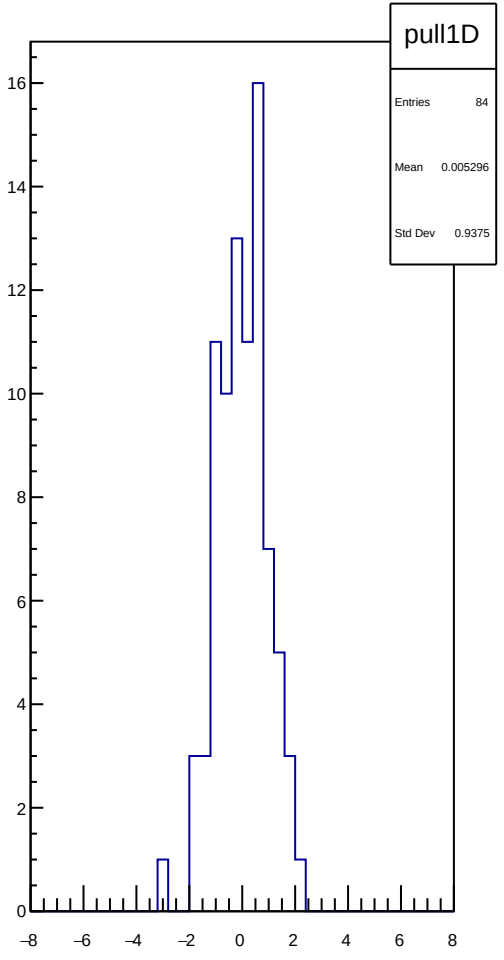

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 14.73 / 83
p0 121.3 ± 7.674
pull
Entries 84
Mean −112.3
Std Dev 0
pull1D
Entries 84
Mean −0.001308
Std Dev 0.4188

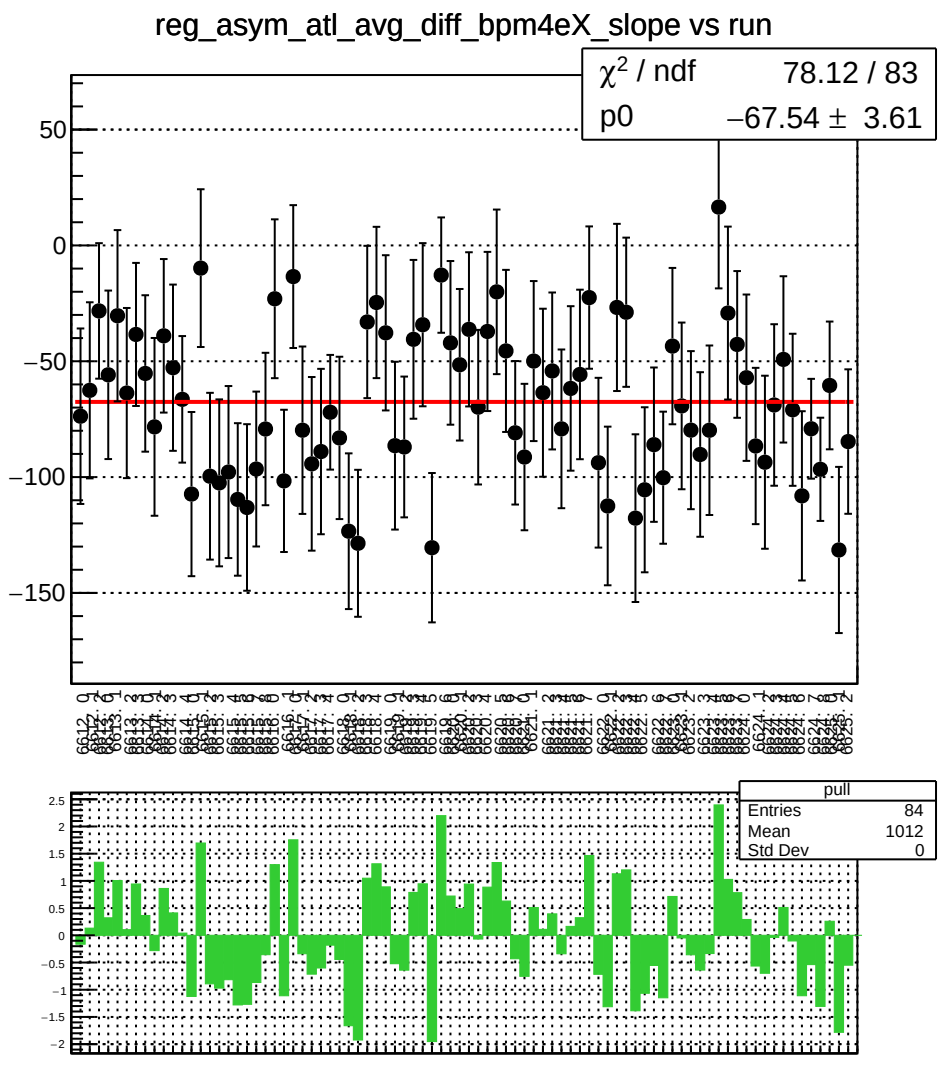

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 86.11 / 83
p0 −294.1 ± 0.3844
−285
−290
−295
−300
−305
−310
pull
Entries 84
Mean −1336
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.0101
Std Dev 1.012
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

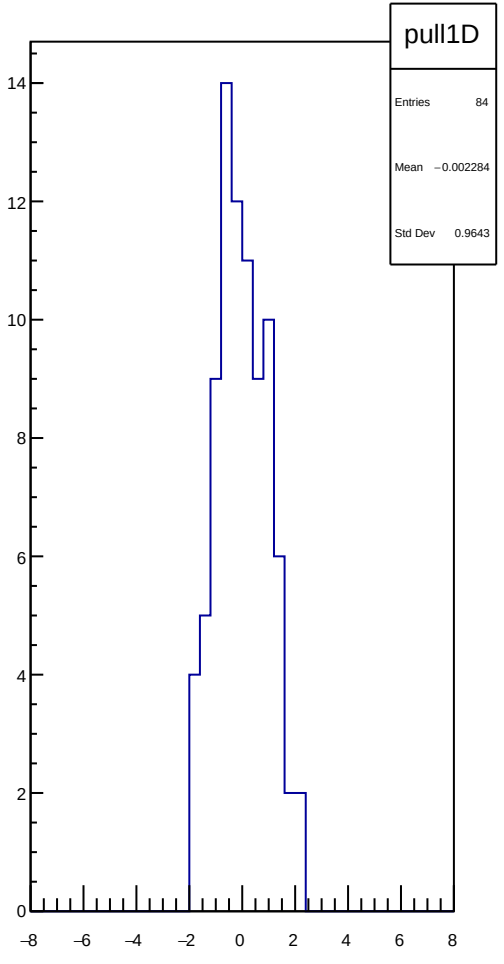

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 74.32 / 83
p0 −6.167 ± 3.509
pull
Entries 84
Mean 1159
Std Dev 0

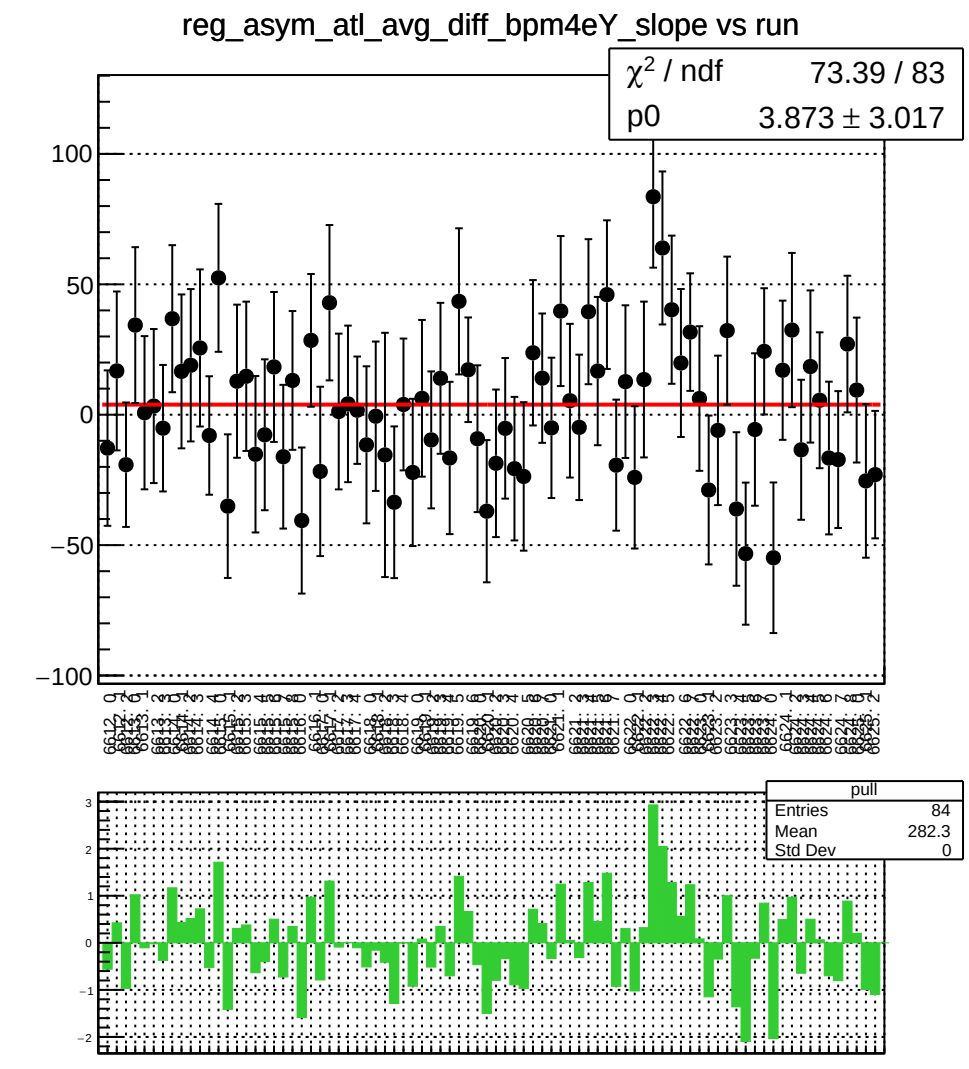

pull1D
Entries 84
Mean 0.001973
Std Dev 0.9406

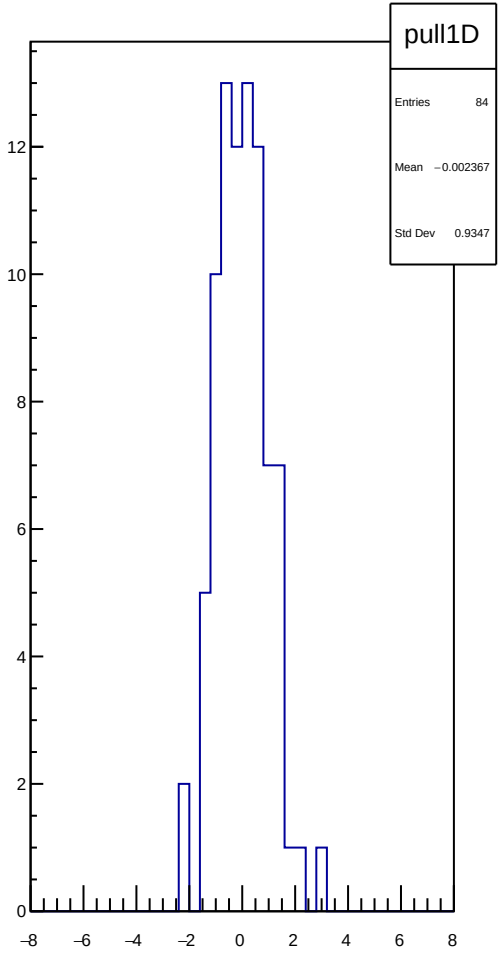

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.83 / 83
p0 −1.004 ± 2.559
pull
Entries 84
Mean 65.87
Std Dev 52.31

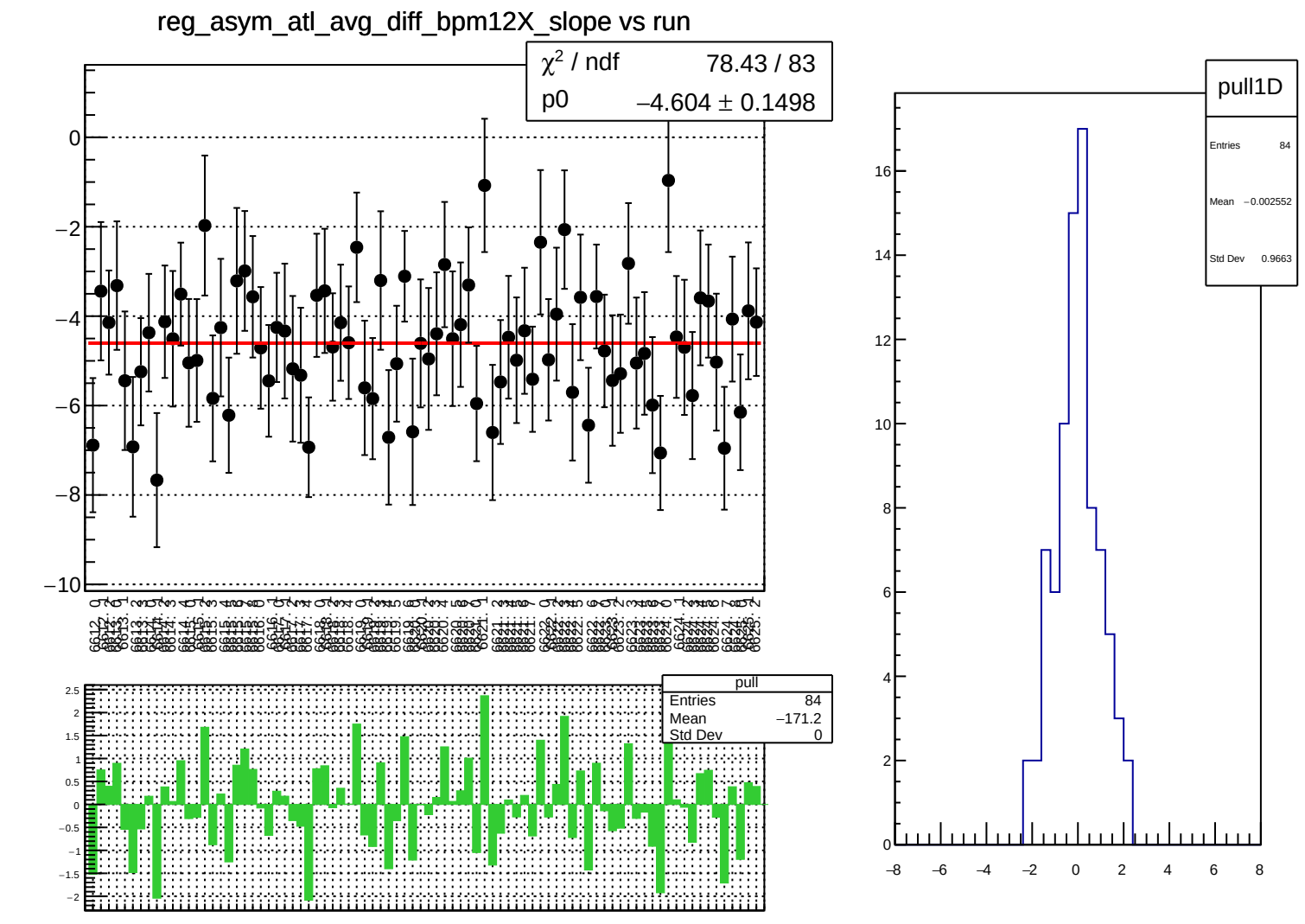

pull1D
Entries 84
Mean 0.005296
Std Dev 0.9375

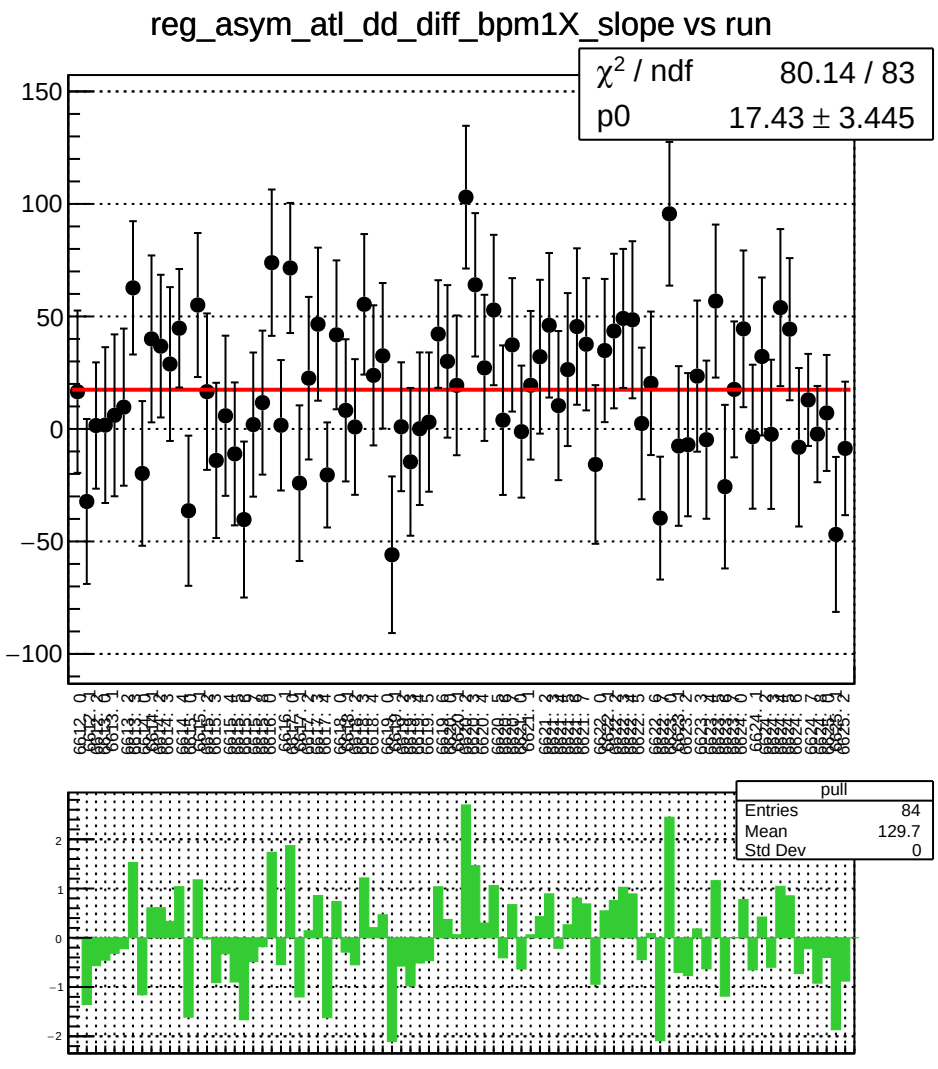

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 78.12 / 83
p0 −67.54 ± 3.61
pull
Entries 84
Mean 1012
Std Dev 0

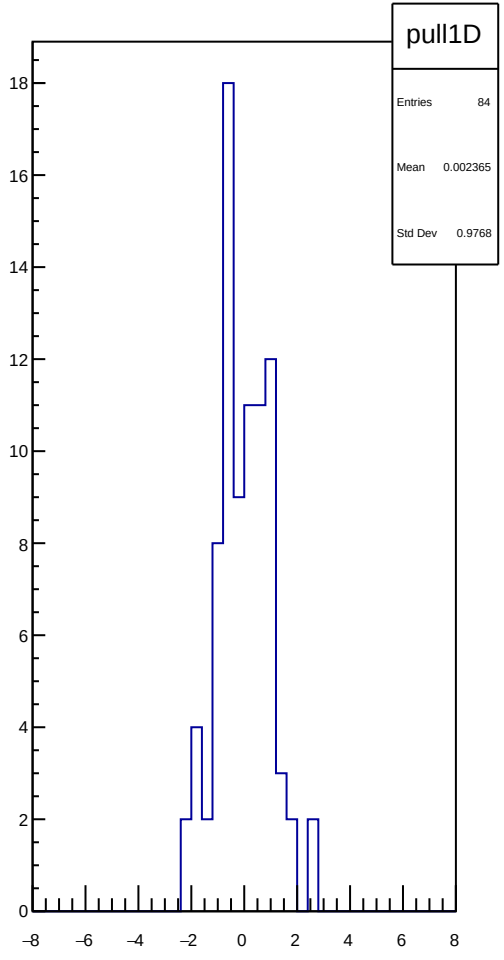

pull1D
Entries 84
Mean −0.002284
Std Dev 0.9643

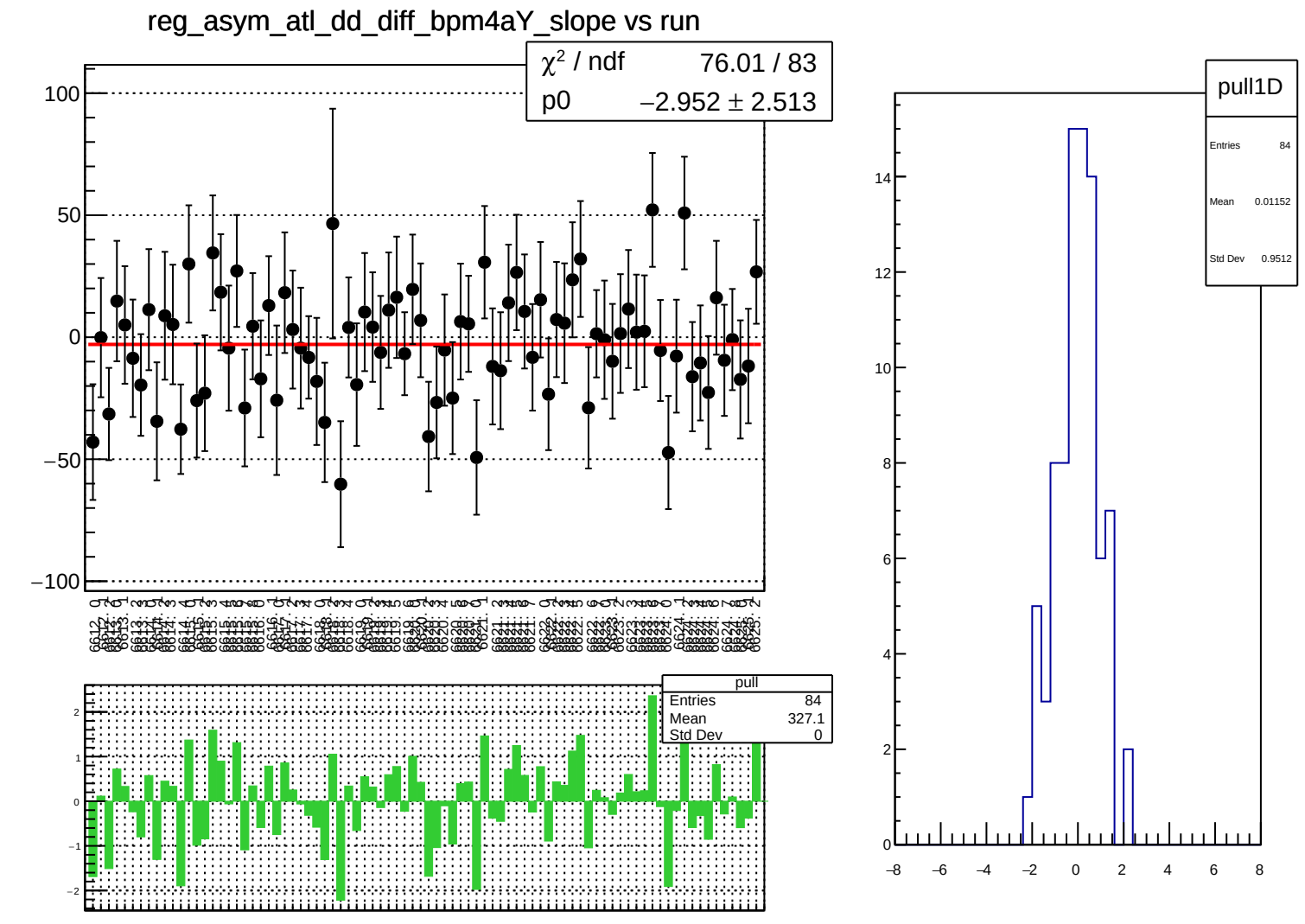

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 73.39 / 83
p0 3.873 ± 3.017
pull
Entries 84
Mean 282.3
Std Dev 0

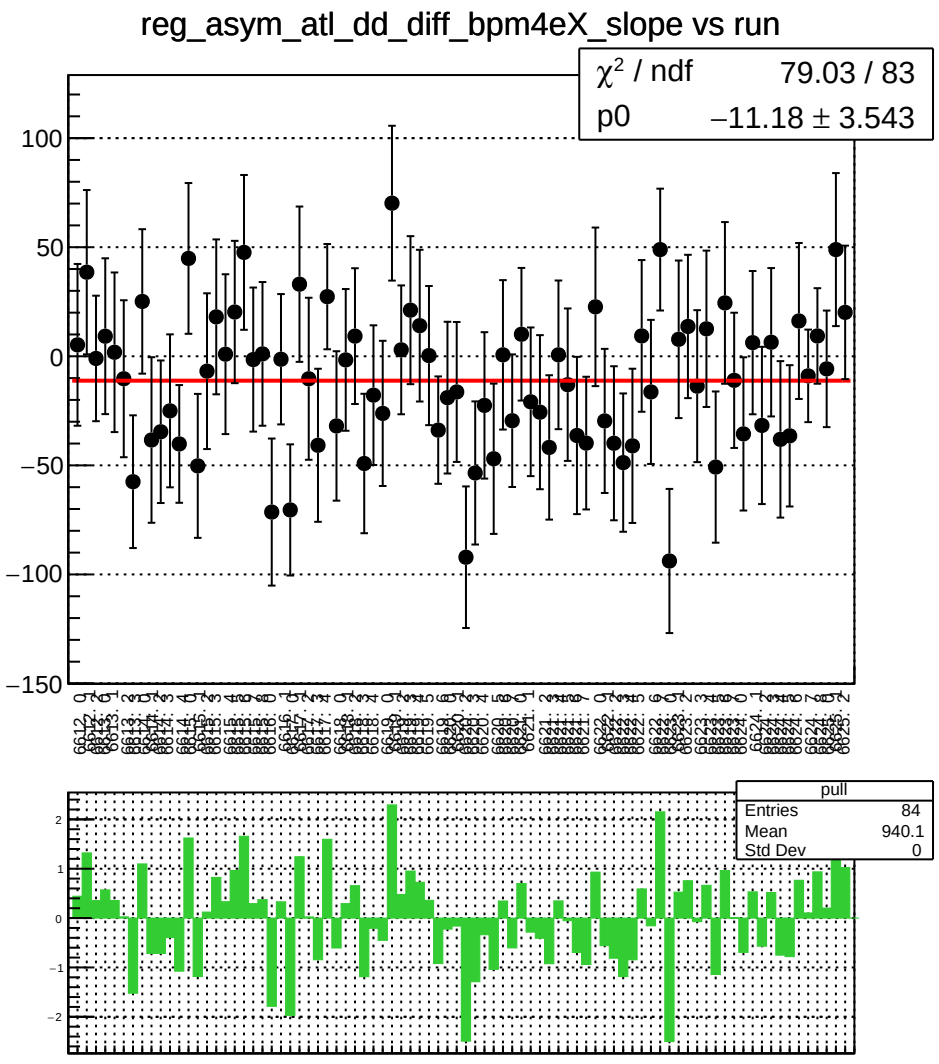

pull1D
Entries 84
Mean −0.002367
Std Dev 0.9347

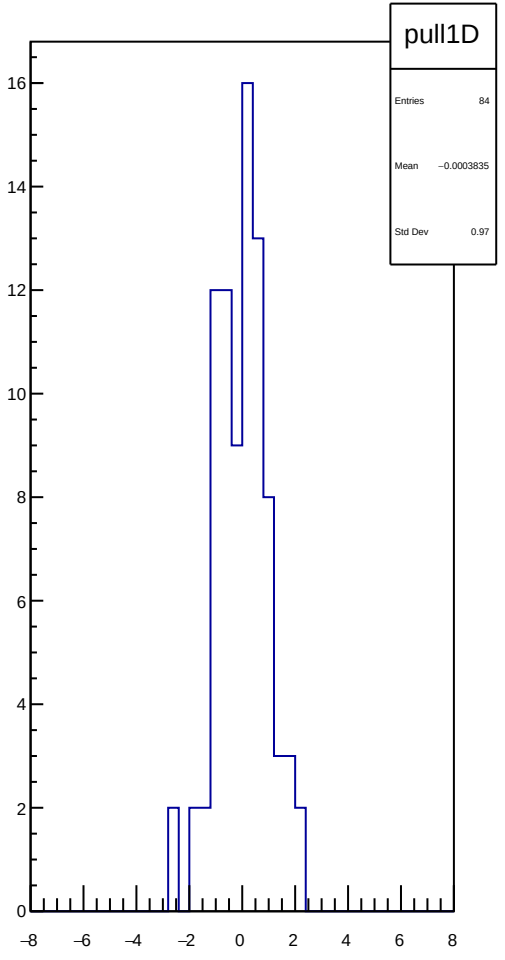

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 78.43 / 83
p0 −4.604 ± 0.1498
pull
Entries 84
Mean −171.2
Std Dev 0
pull1D
Entries 84
Mean −0.002552
Std Dev 0.9663

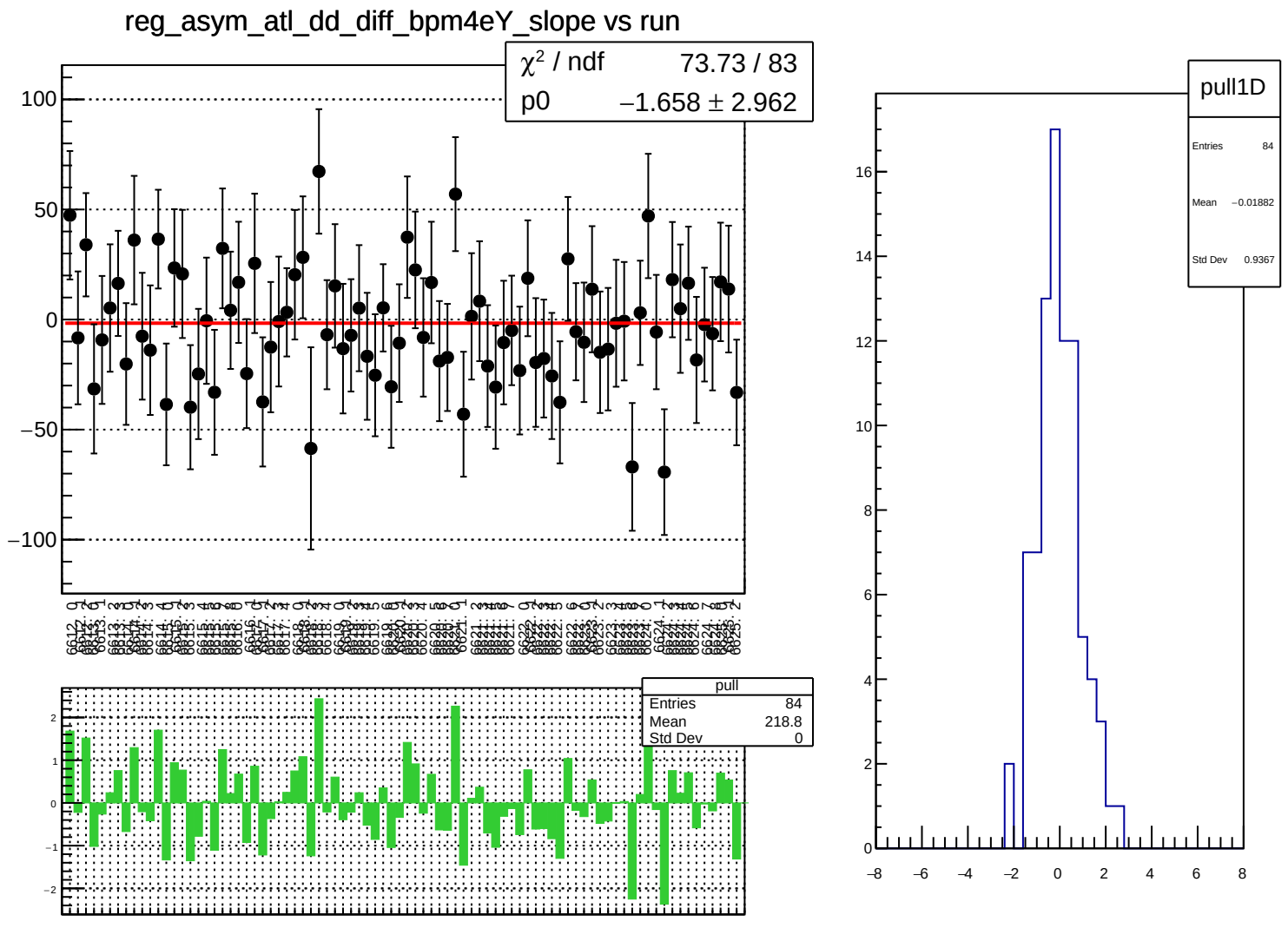

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 80.14 / 83
p0 17.43 ± 3.445
150
100
50
0
−50
−100
pull
Entries 84
Mean 129.7
Std Dev 0
2
1
0
−1
−2

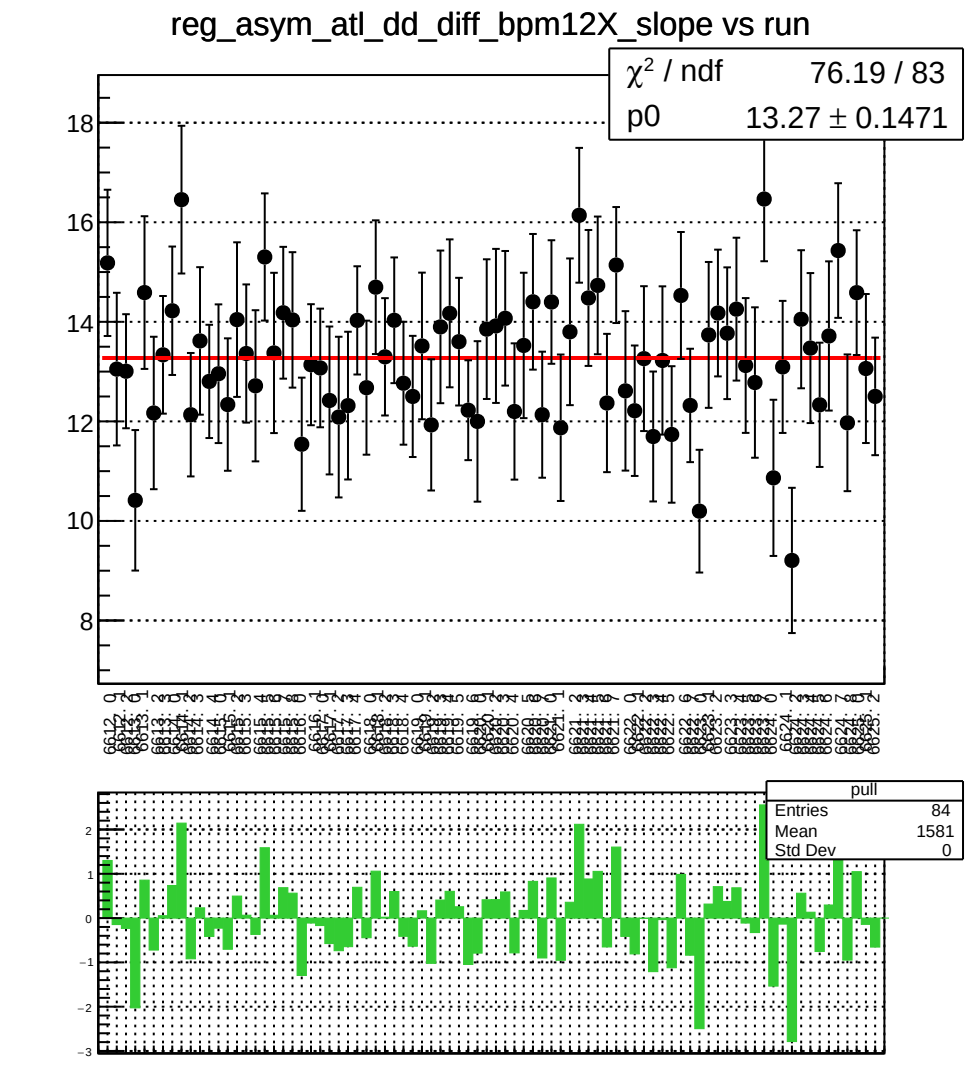

pull1D
Entries 84
Mean 0.002365
Std Dev 0.9768
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

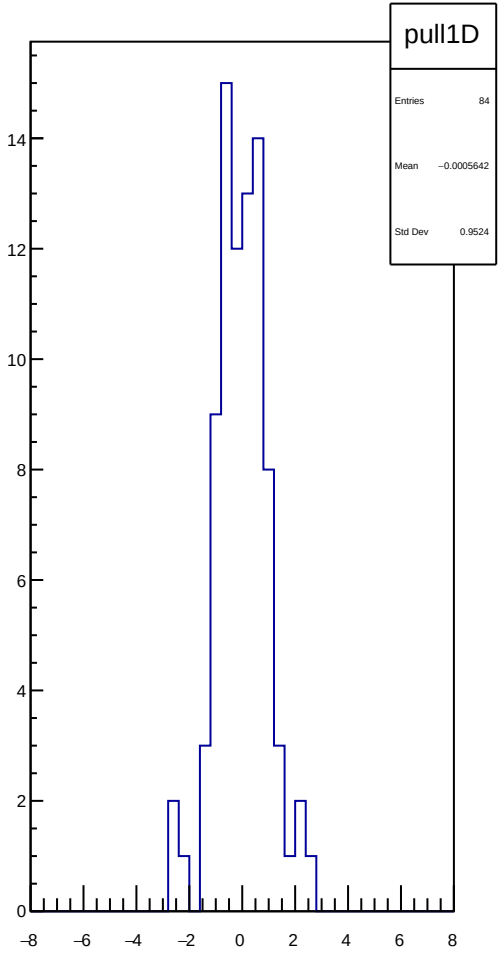

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.01 / 83
p0 −2.952 ± 2.513
100
50
0
−50
−100
pull
Entries 84
Mean 327.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.01152
Std Dev 0.9512
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

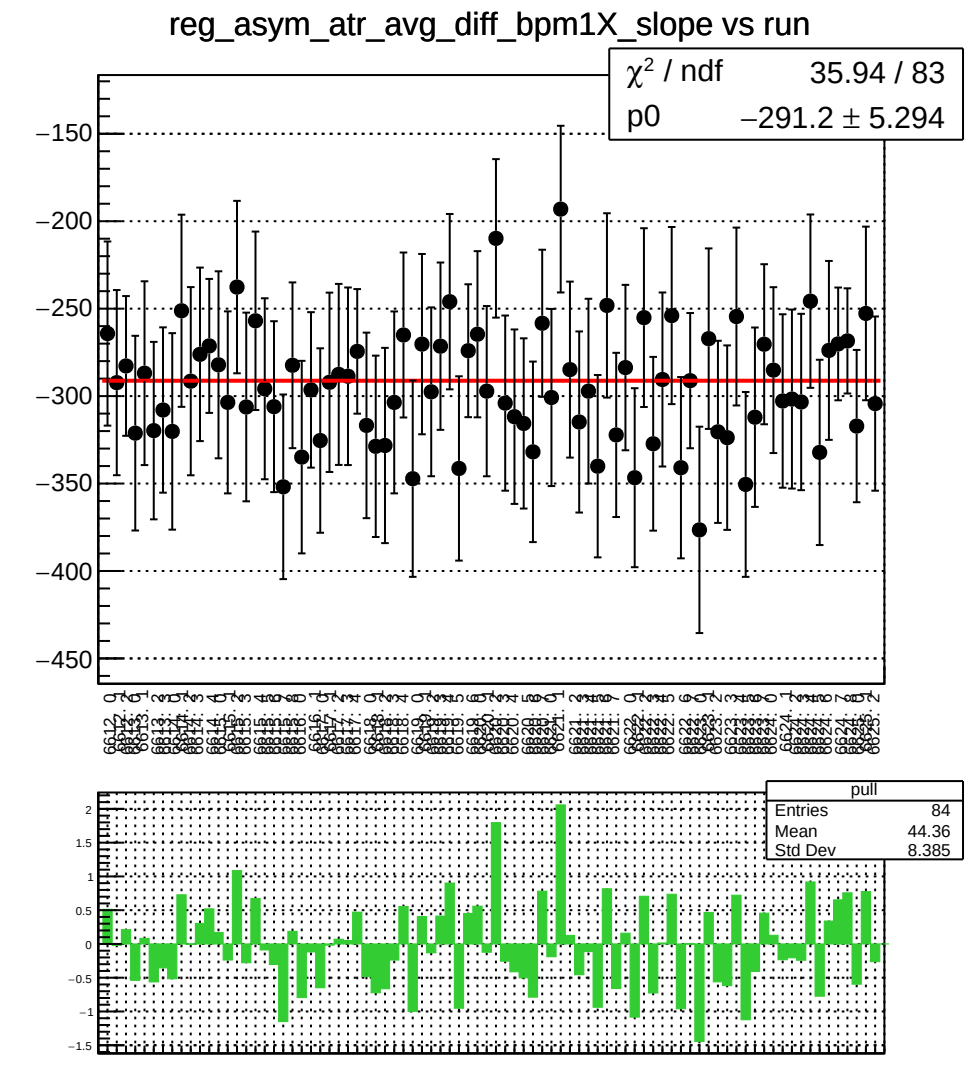

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 79.03 / 83
p0 −11.18 ± 3.543
pull
Entries 84
Mean 940.1
Std Dev 0

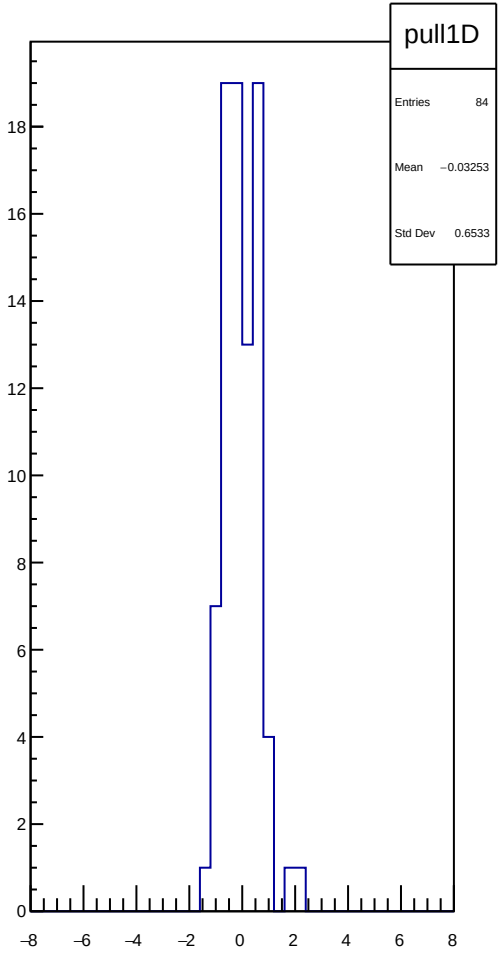

pull1D
Entries 84
Mean −0.0003835
Std Dev 0.97

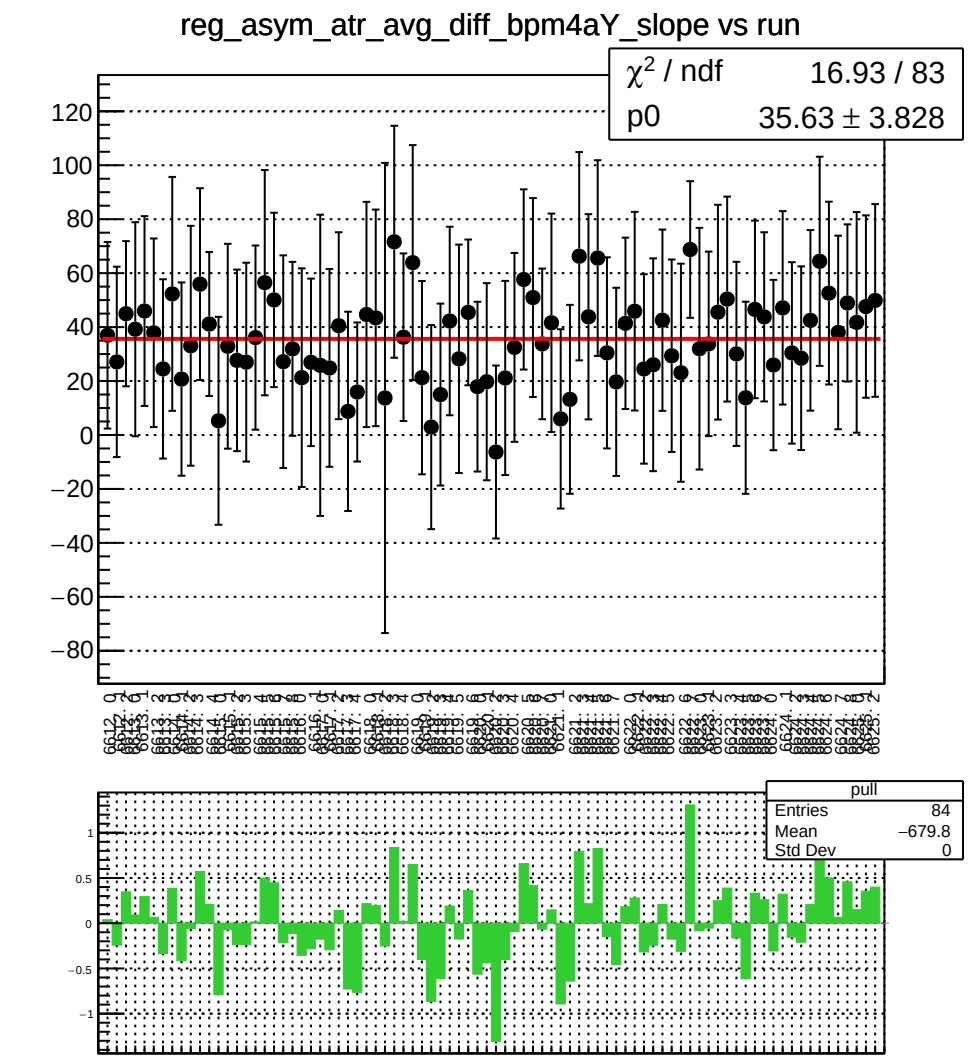

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.73 / 83
p0 −1.658 ± 2.962
100
50
0
−50
−100
pull
Entries 84
Mean 218.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.01882
Std Dev 0.9367
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

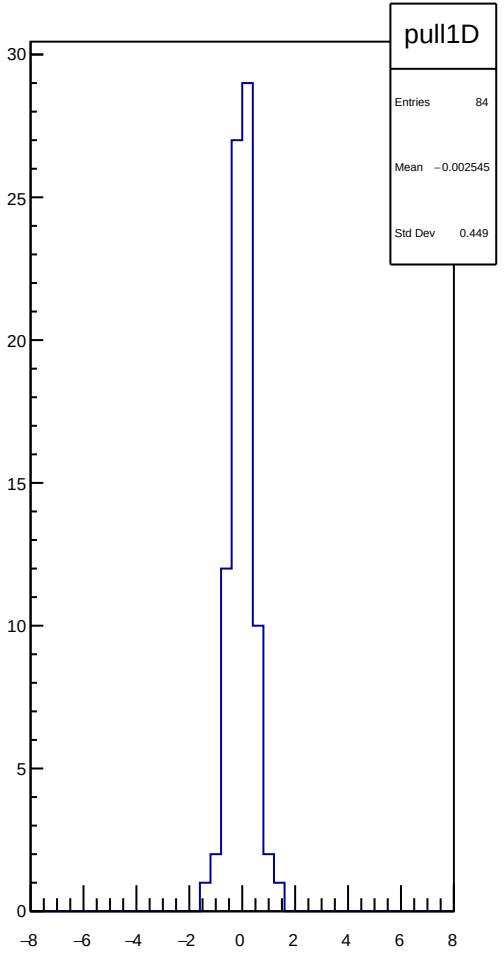

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 76.19 / 83
p0 13.27 ± 0.1471
pull
Entries 84
Mean 1581
Std Dev 0

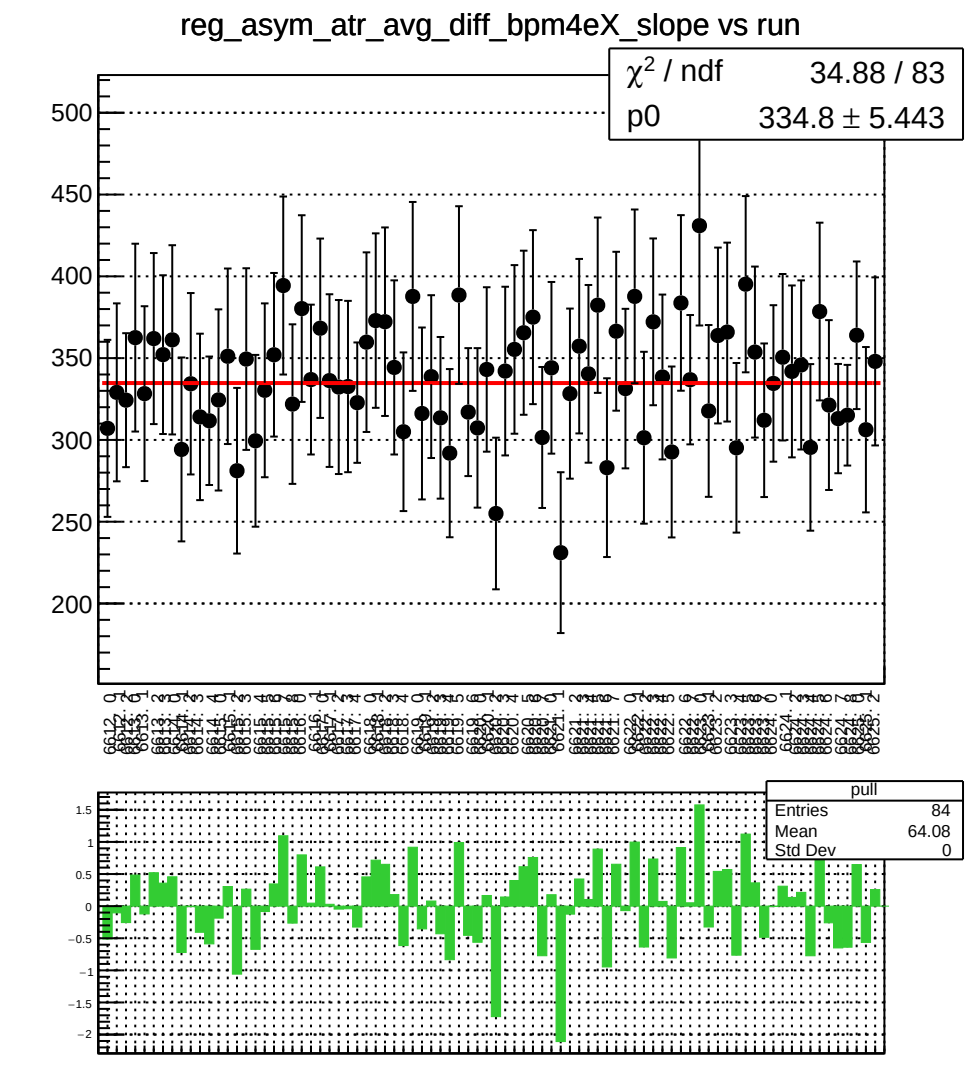

pull1D
Entries 84
Mean −0.0005642
Std Dev 0.9524

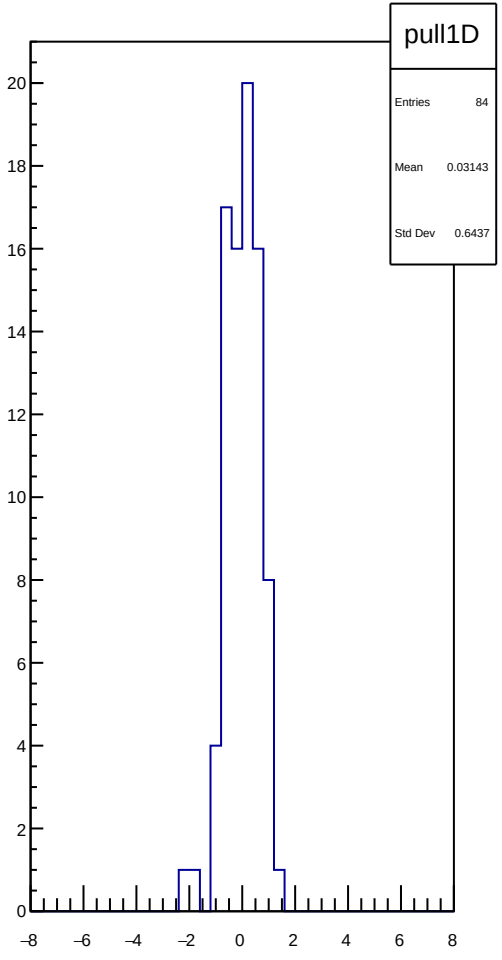

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 35.94 / 83
p0 −291.2 ± 5.294
pull
Entries 84
Mean 44.36
Std Dev 8.385

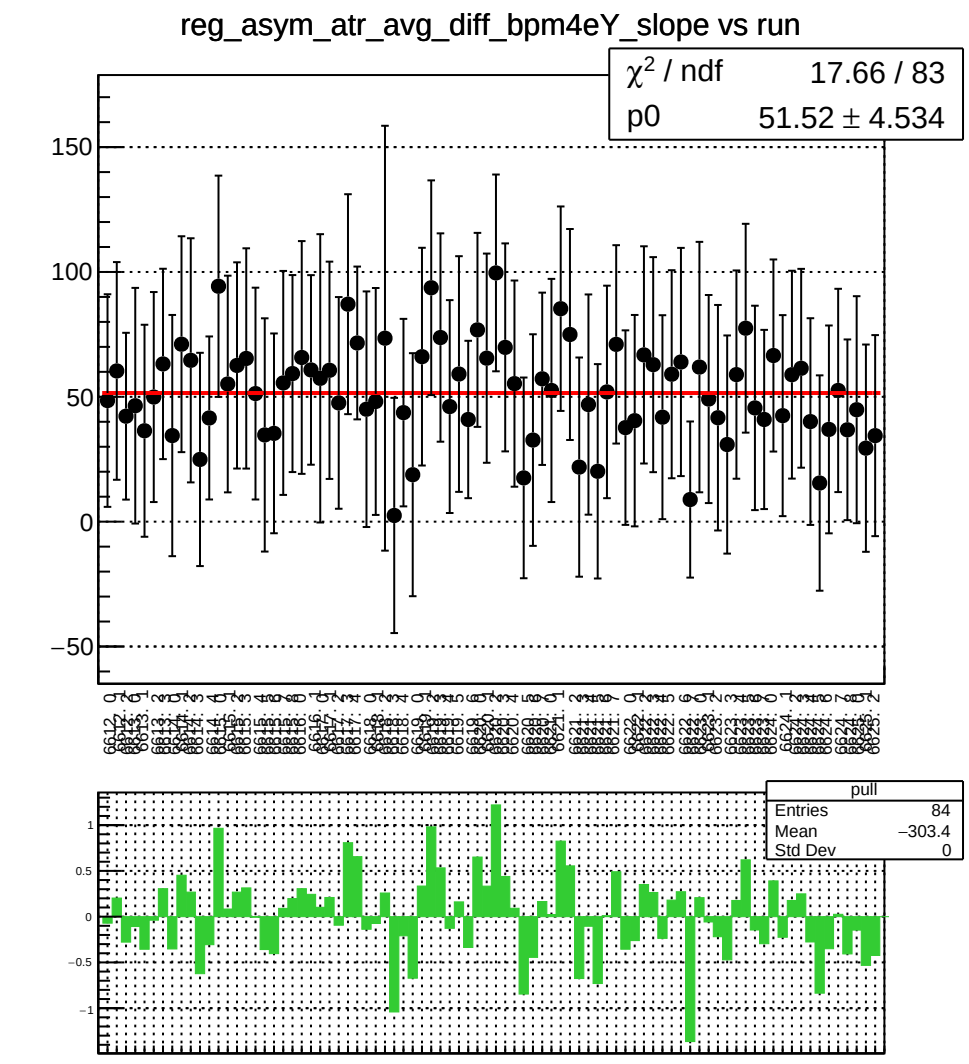

pull1D
Entries 84
Mean −0.03253
Std Dev 0.6533

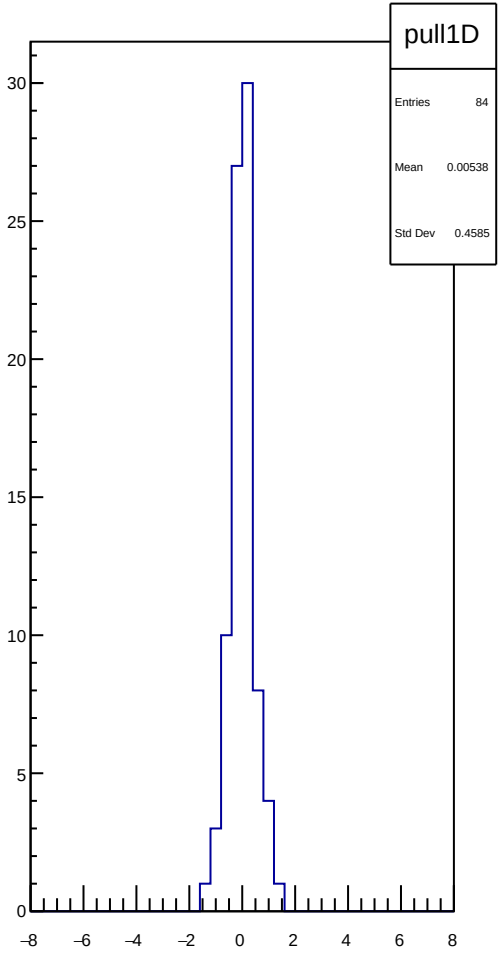

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.93 / 83
p0 35.63 ± 3.828
pull
Entries 84
Mean −679.8
Std Dev 0

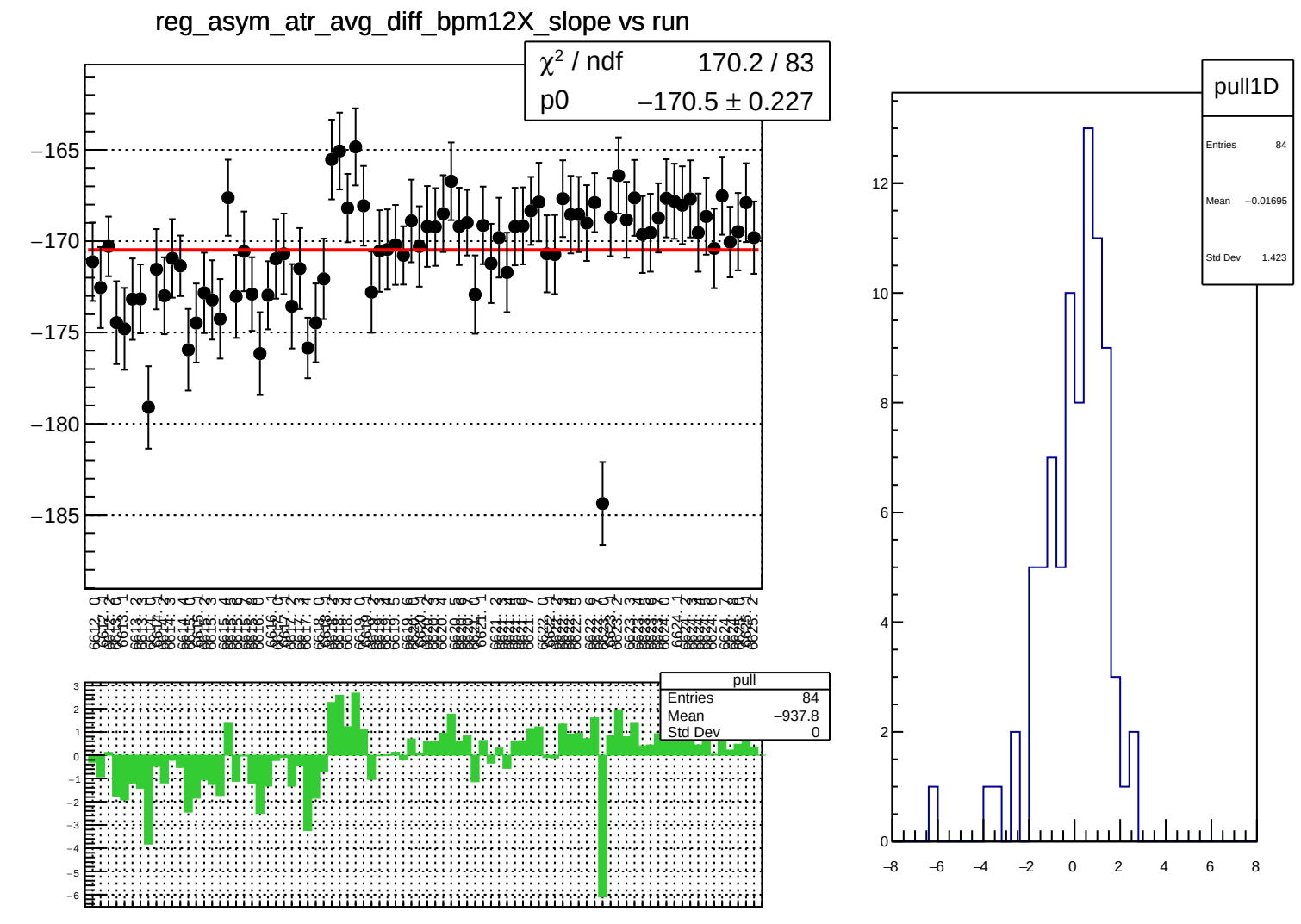

pull1D
Entries 84
Mean −0.002545
Std Dev 0.449

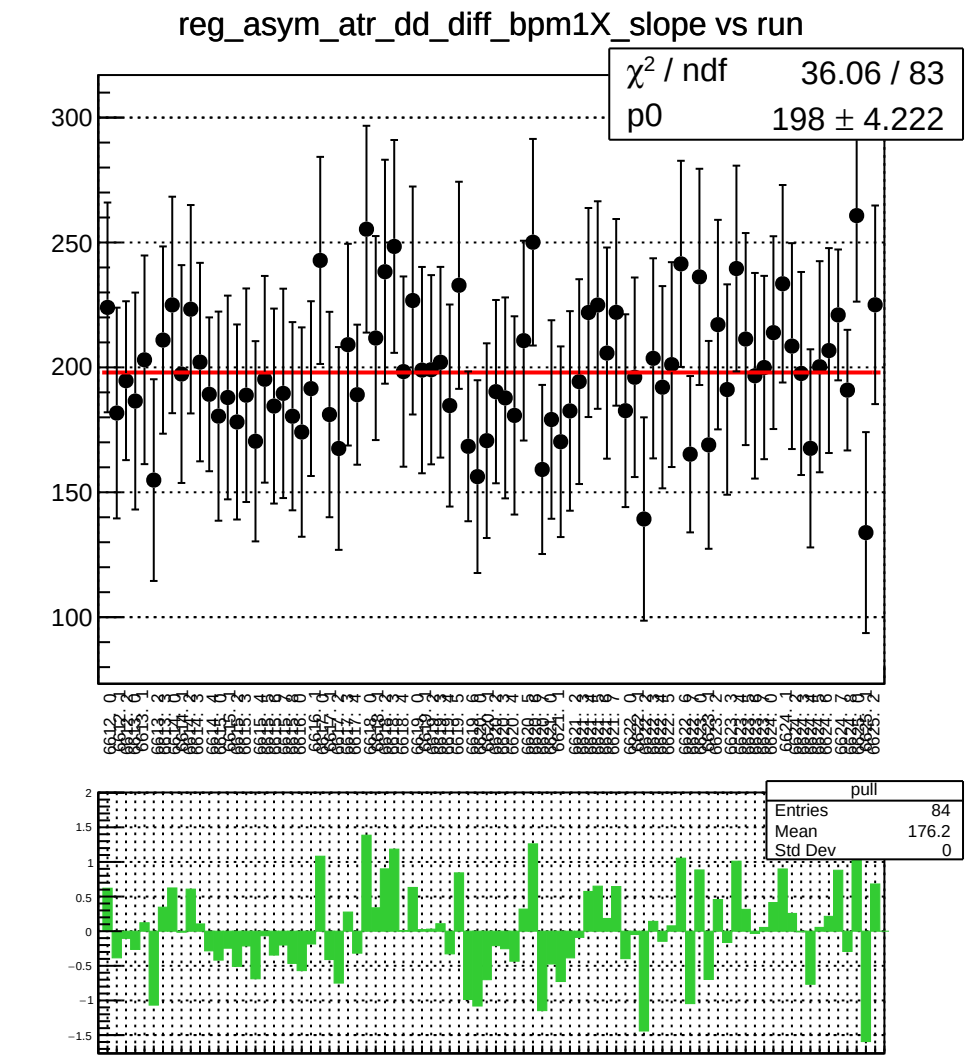

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 34.88 / 83
p0 334.8 ± 5.443
pull
Entries 84
Mean 64.08
Std Dev 0

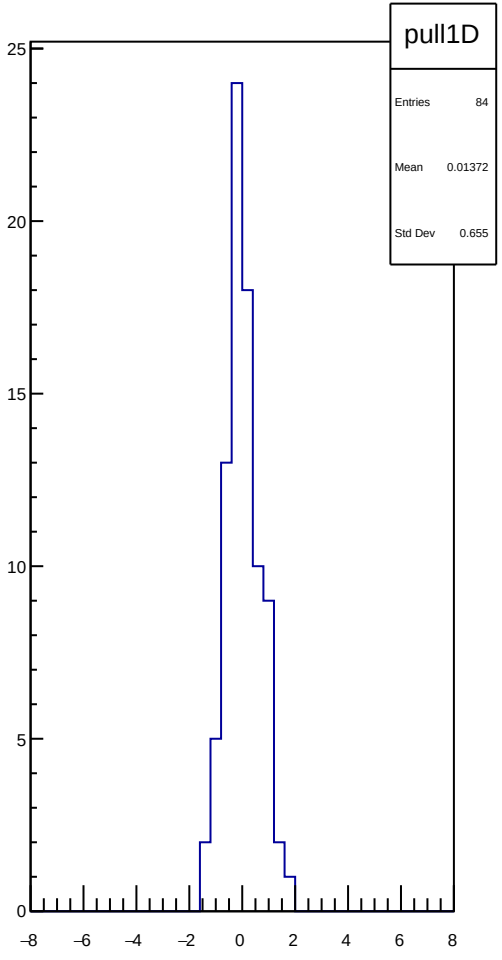

pull1D
Entries 84
Mean 0.03143
Std Dev 0.6437

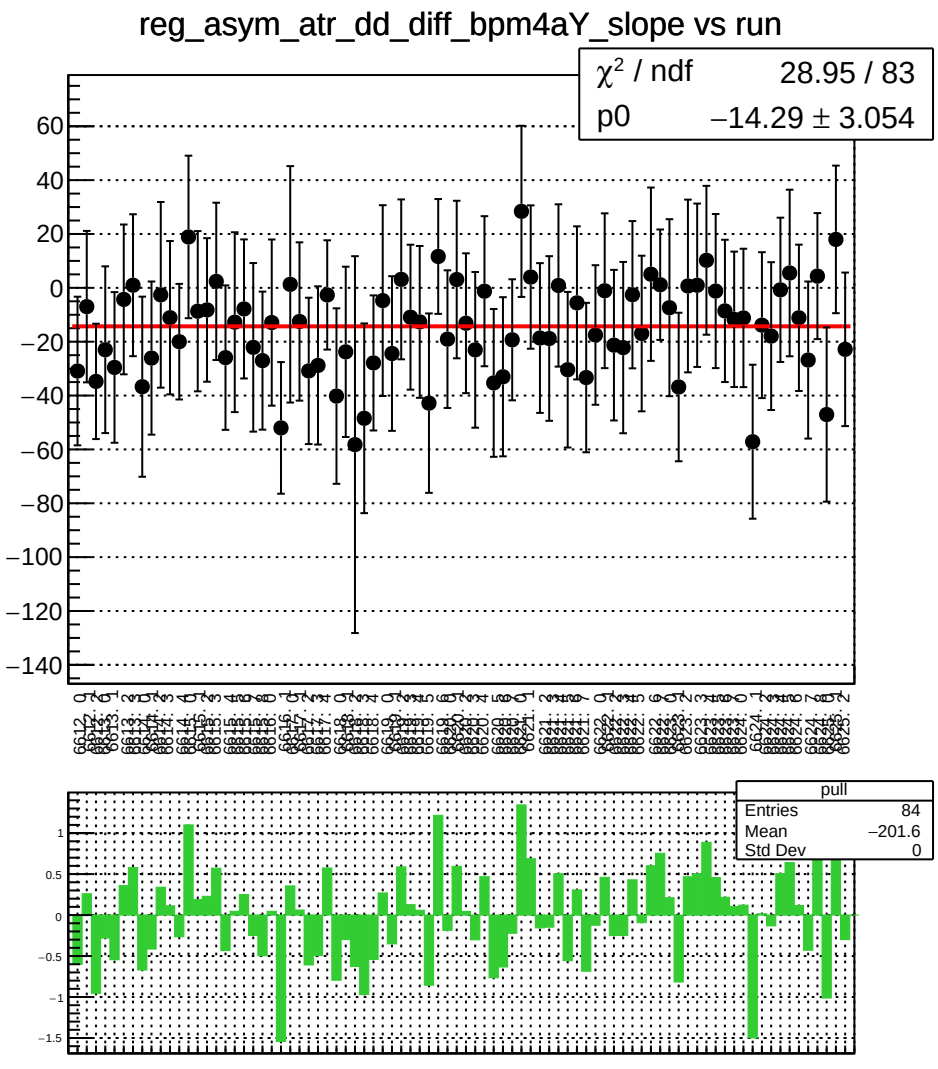

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.66 / 83
p0 51.52 ± 4.534
150
100
50
0
−50
pull
Entries 84
Mean −303.4
Std Dev 0
1
0.5
0
−0.5
−1

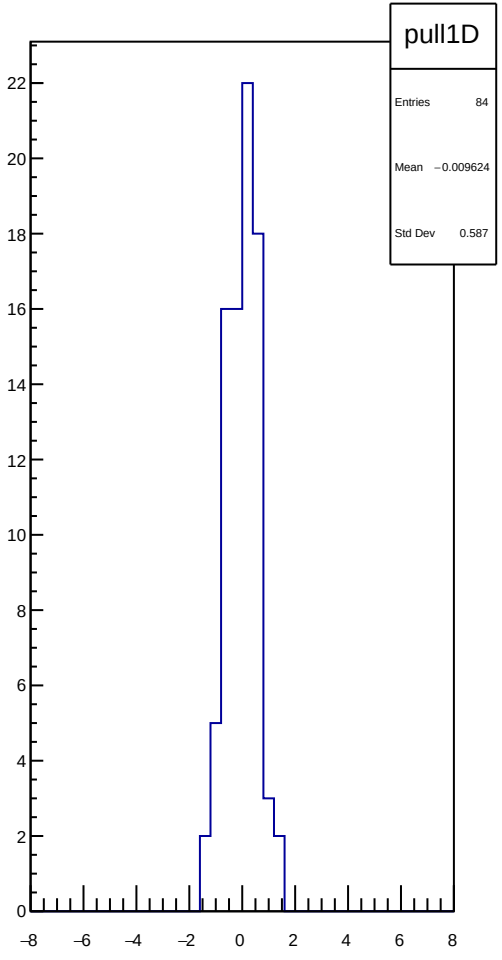

pull1D
Entries 84
Mean 0.00538
Std Dev 0.4585
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

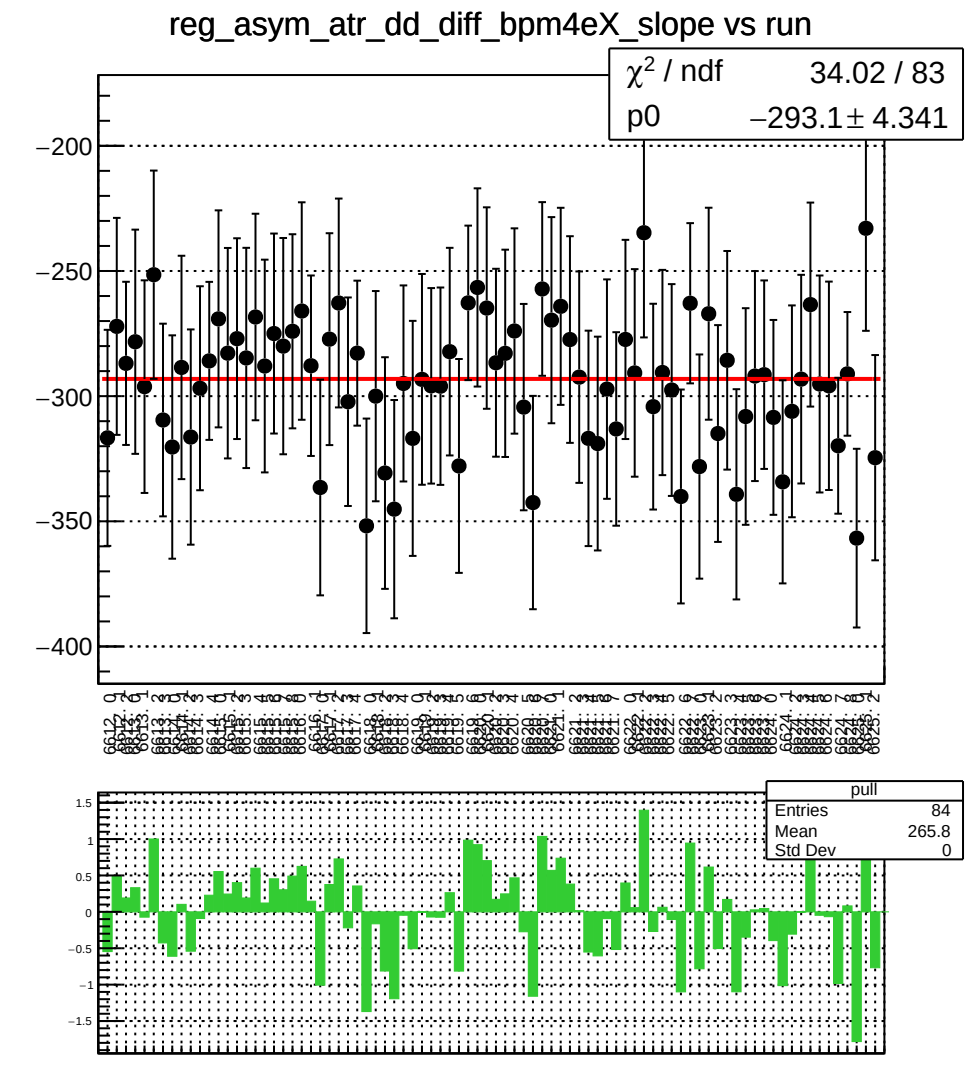

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 170.2 / 83
p0 −170.5 ± 0.227
−165
−170
−175
−180
−185
pull
Entries 84
Mean −937.8
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 84
Mean −0.01695
Std Dev 1.423
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

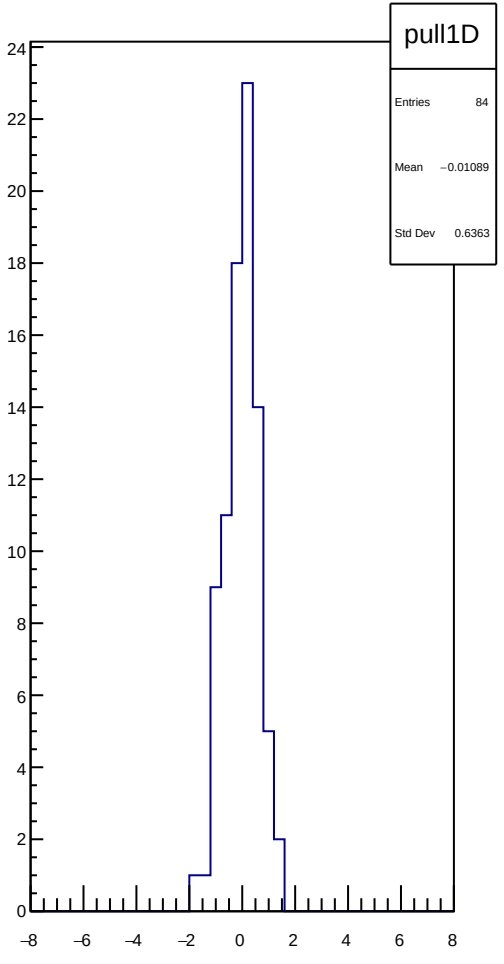

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 36.06 / 83
p0 198 ± 4.222
300
250
200
150
100
pull
Entries 84
Mean 176.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

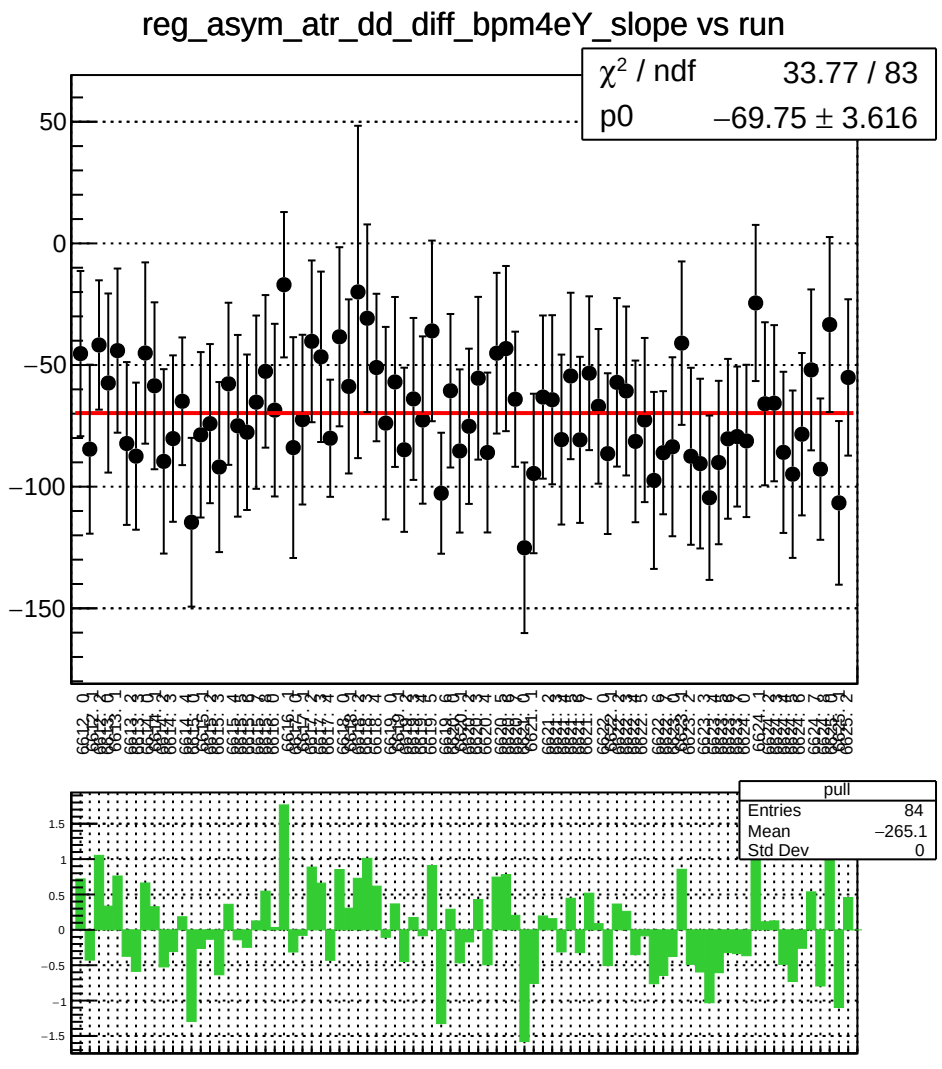

pull1D
Entries 84
Mean 0.01372
Std Dev 0.655
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

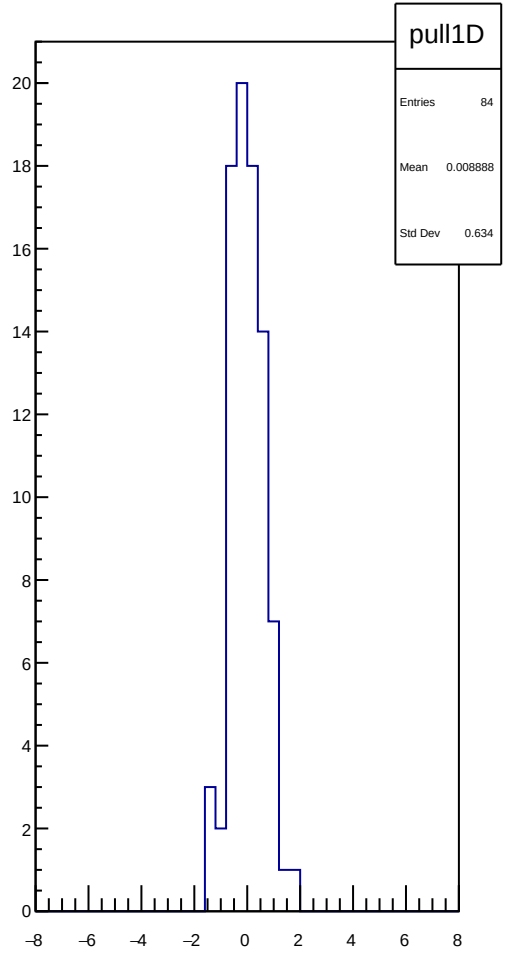

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.95 / 83
p0 −14.29 ± 3.054
pull
Entries 84
Mean −201.6
Std Dev 0

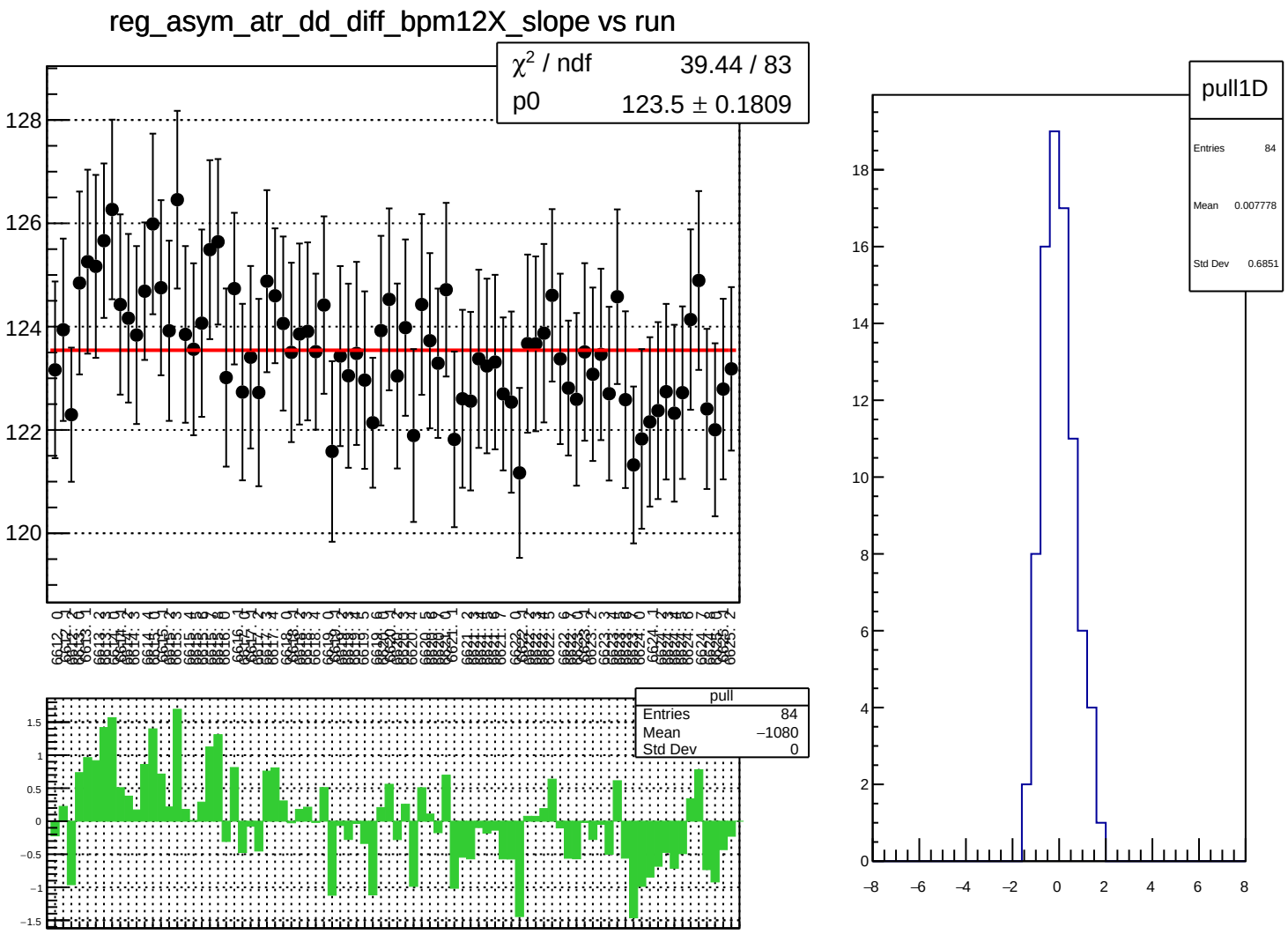

pull1D
Entries 84
Mean −0.009624
Std Dev 0.587

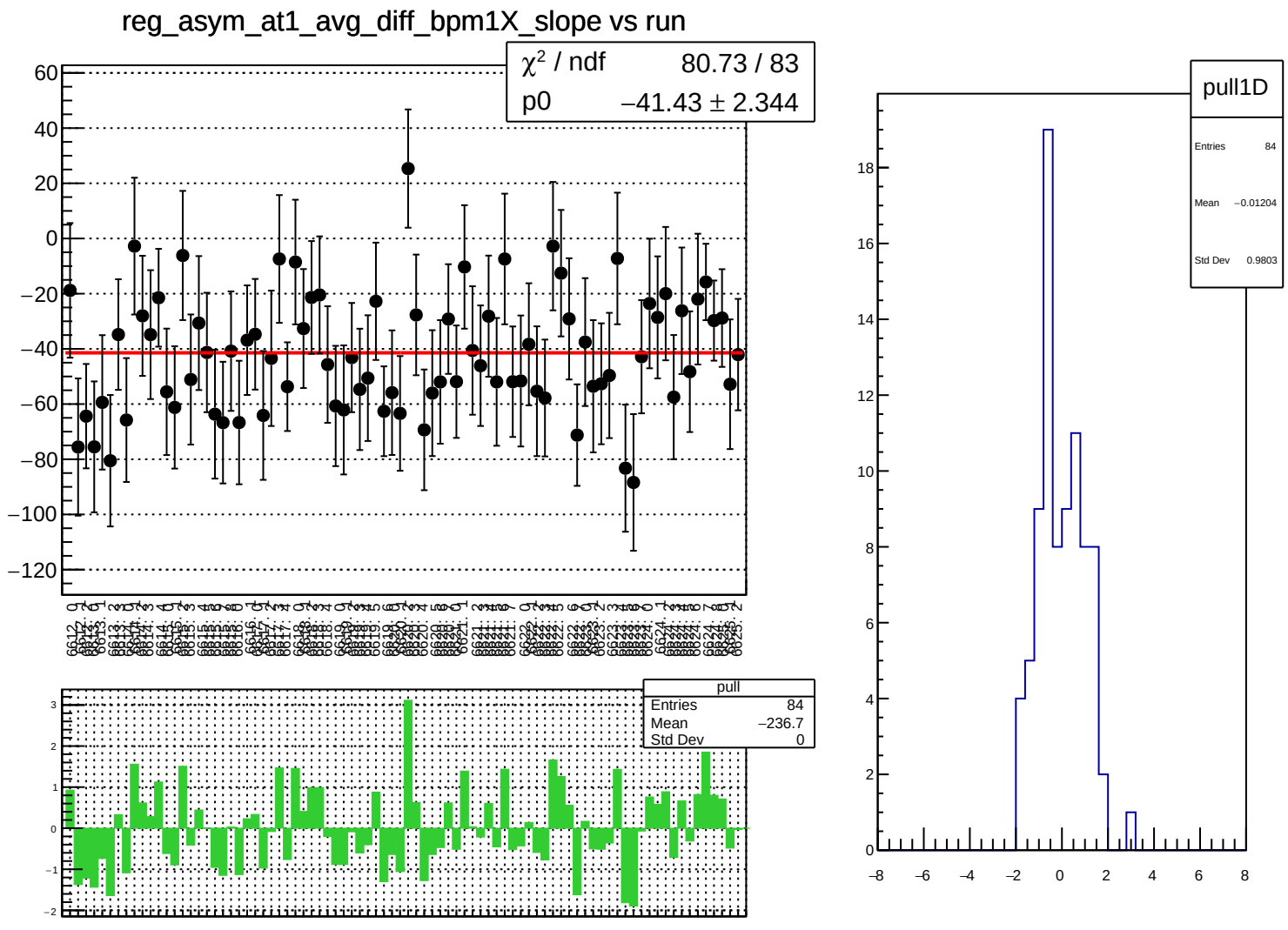

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.02 / 83
p0 −293.1 ± 4.341
−200
−250
−300
−350
−400
pull
Entries 84
Mean 265.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

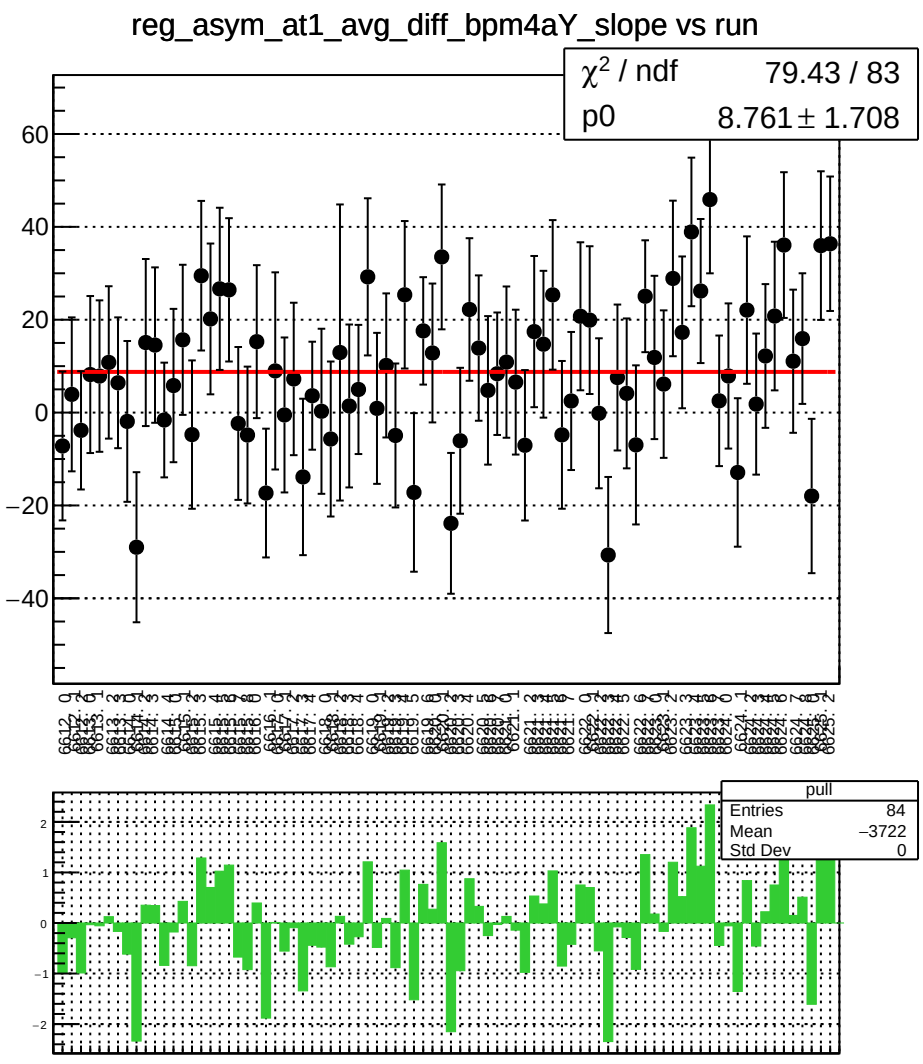

pull1D
Entries 84
Mean −0.01089
Std Dev 0.6363
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

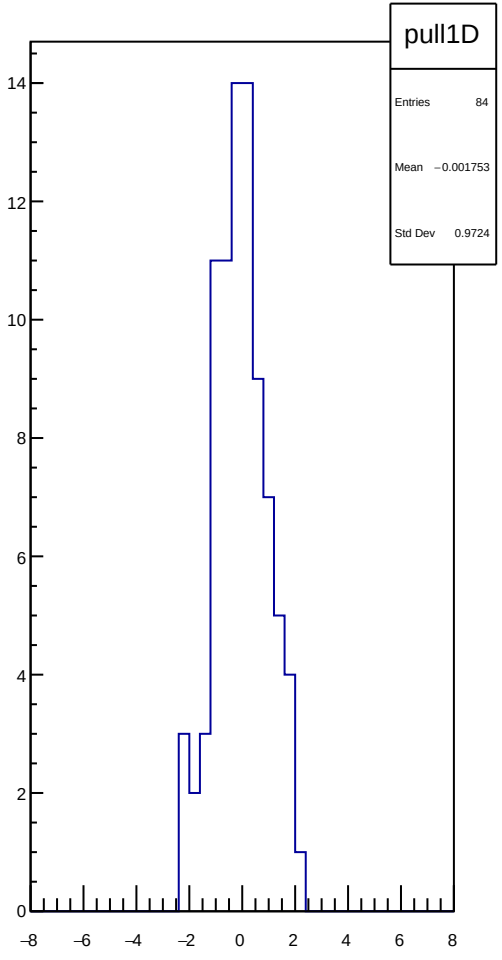

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.77 / 83
p0 −69.75 ± 3.616
50
0
−50
−100
−150
pull
Entries 84
Mean −265.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

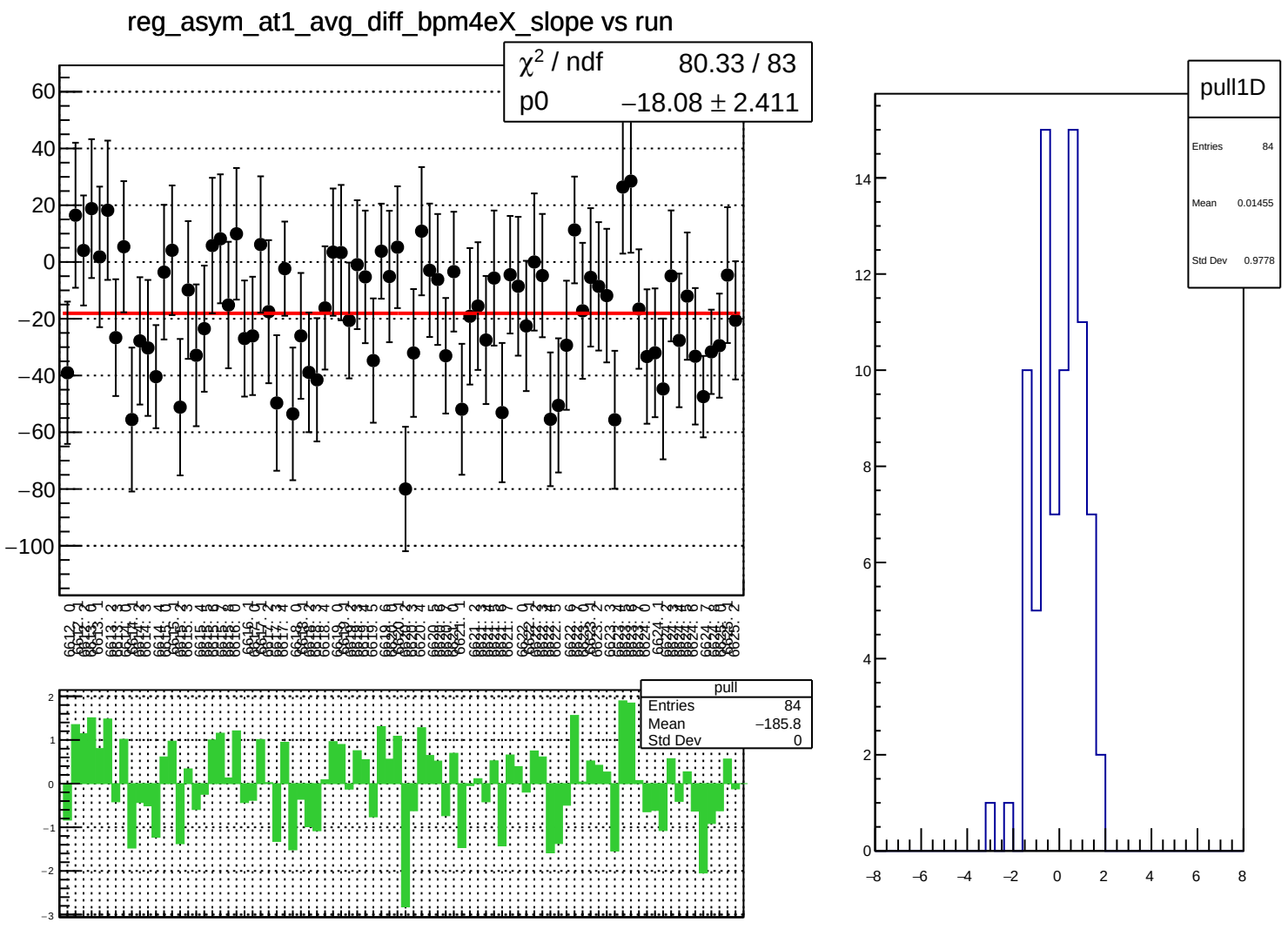

pull1D
Entries 84
Mean 0.008888
Std Dev 0.634
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

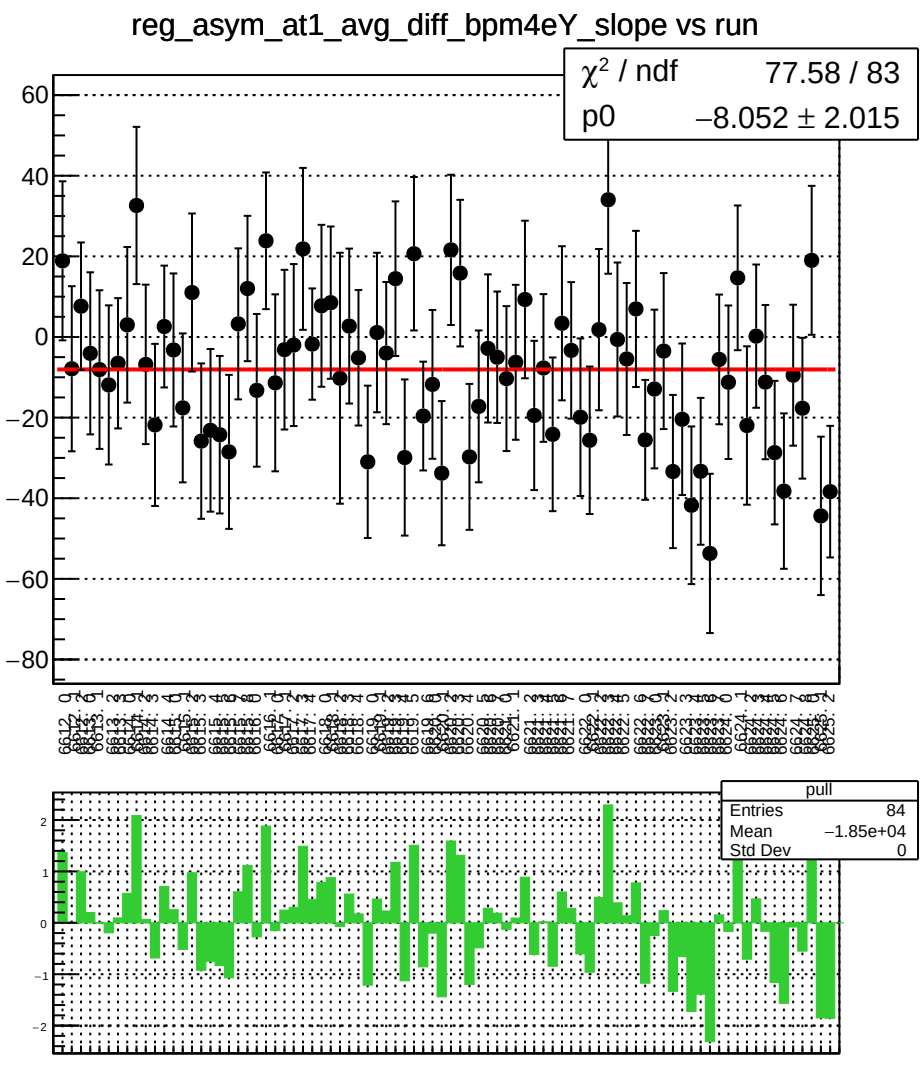

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 39.44 / 83
p0 123.5 ± 0.1809
128
126
124
122
120
pull
Entries 84
Mean −1080
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.007778
Std Dev 0.6851
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

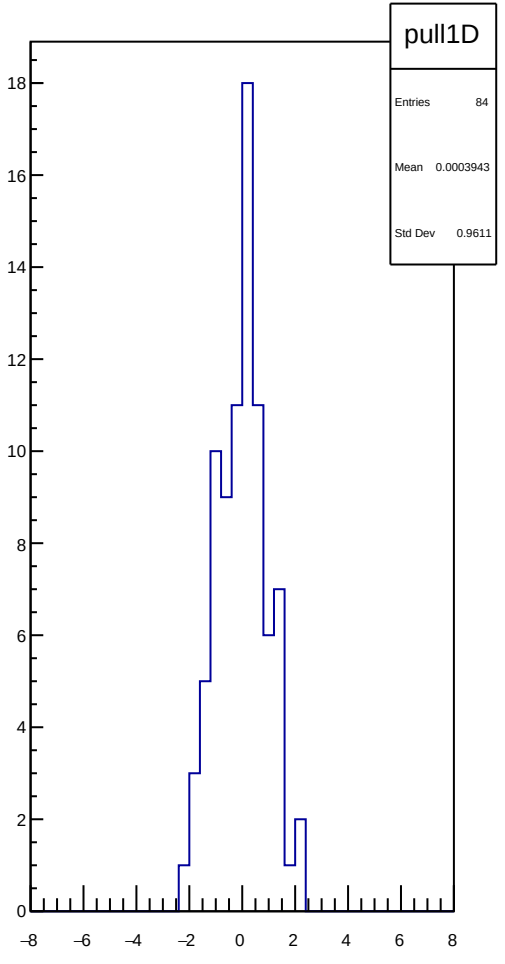

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 80.73 / 83
p0 −41.43 ± 2.344
pull
Entries 84
Mean −236.7
Std Dev 0
pull1D
Entries 84
Mean −0.01204
Std Dev 0.9803

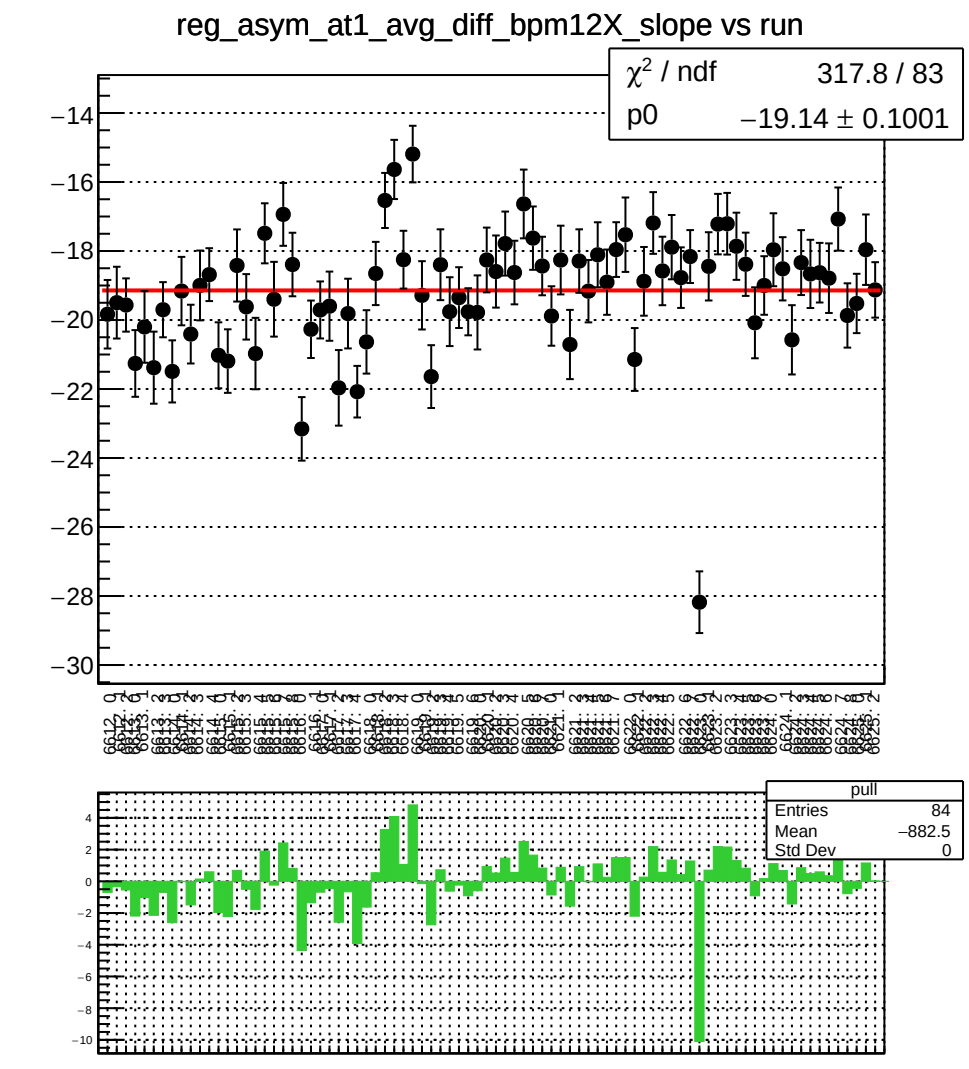

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 79.43 / 83
p0 8.761 ± 1.708
pull
Entries 84
Mean −3722
Std Dev 0

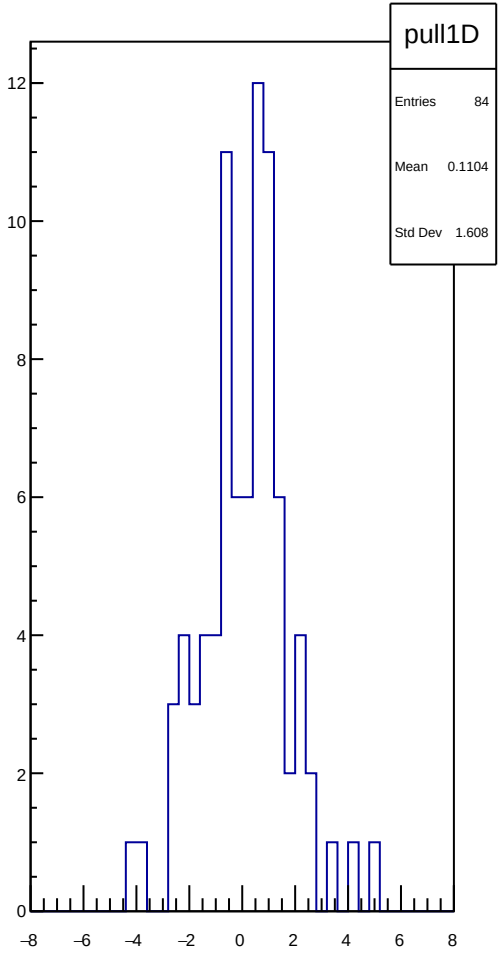

pull1D
Entries 84
Mean −0.001753
Std Dev 0.9724

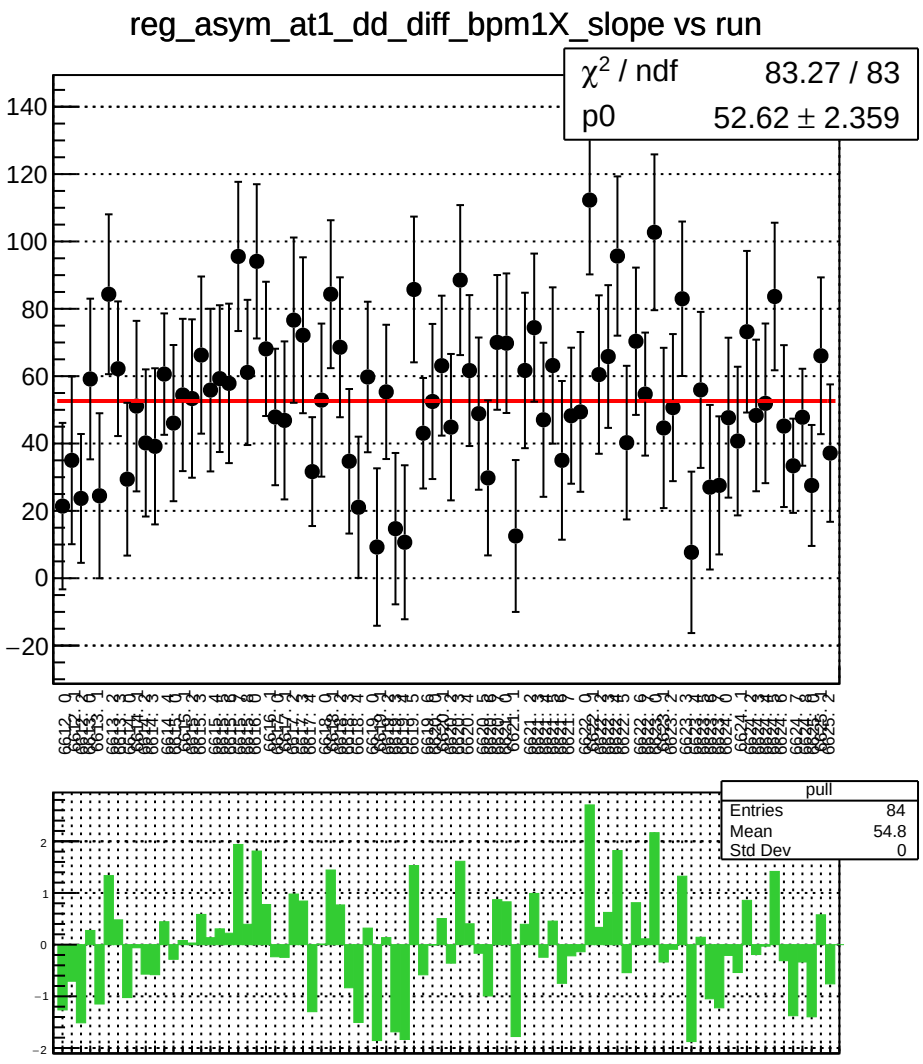

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.33 / 83
p0 −18.08 ± 2.411
pull
Entries 84
Mean −185.8
Std Dev 0
pull1D
Entries 84
Mean 0.01455
Std Dev 0.9778

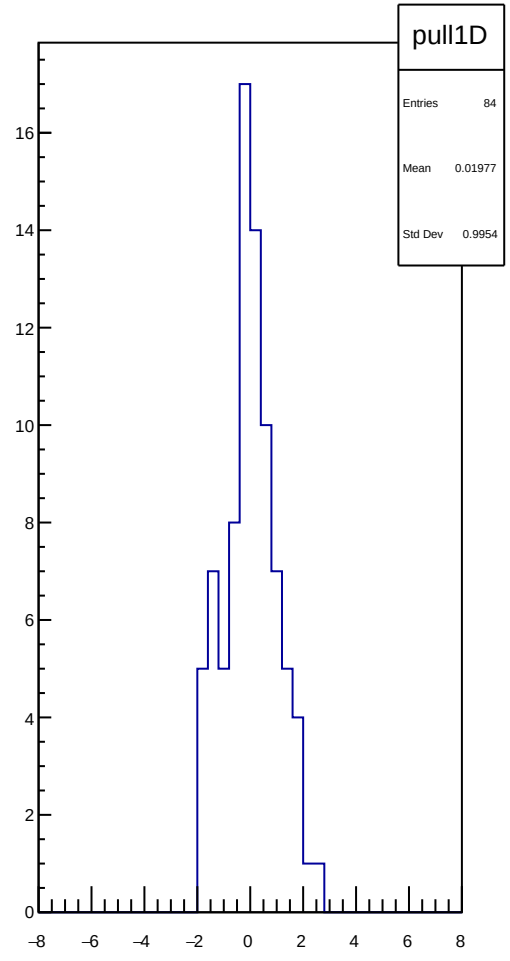

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.58 / 83
p0 −8.052 ± 2.015
pull
Entries 84
Mean −1.85e+04
Std Dev 0

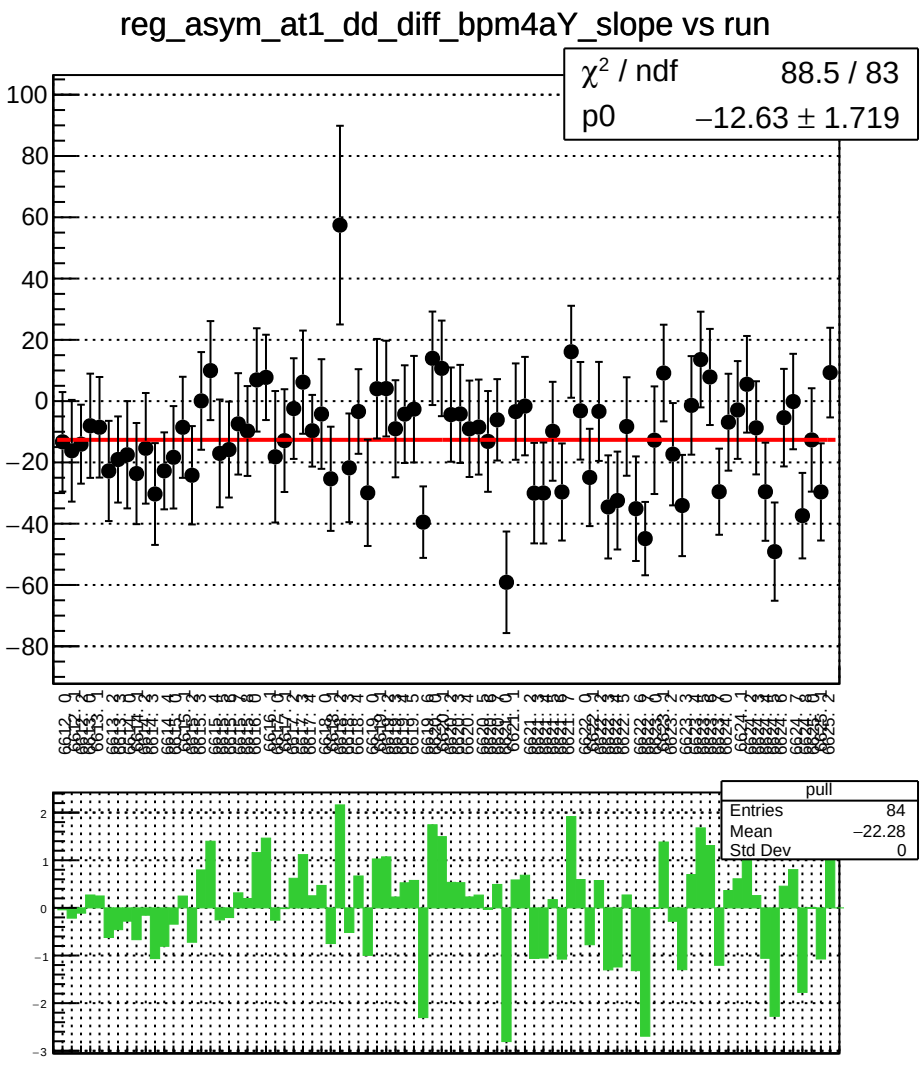

pull1D
Entries 84
Mean 0.0003943
Std Dev 0.9611

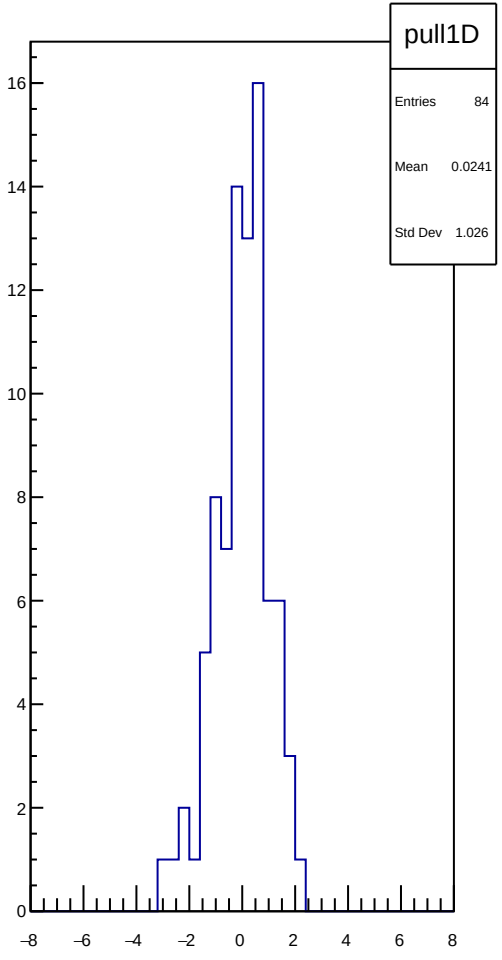

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 317.8 / 83
p0 −19.14 ± 0.1001
pull
Entries 84
Mean −882.5
Std Dev 0

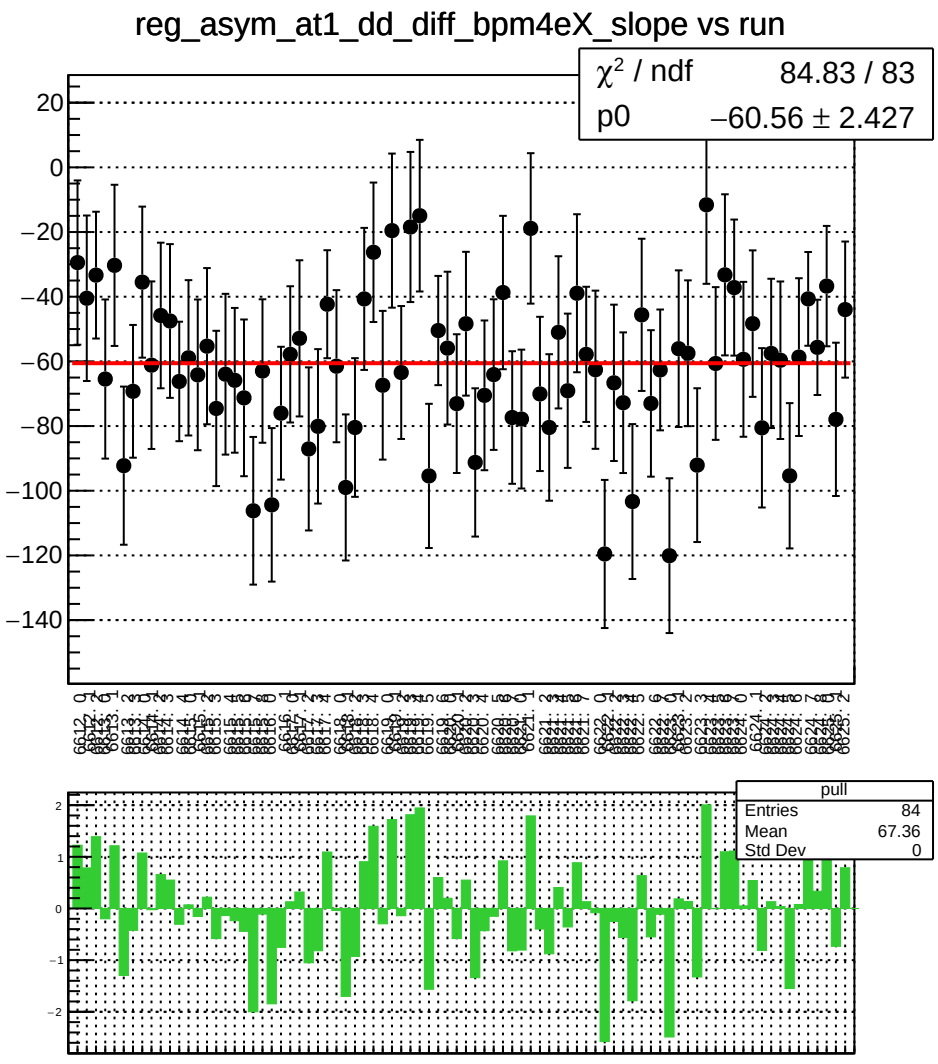

pull1D
Entries 84
Mean 0.1104
Std Dev 1.608

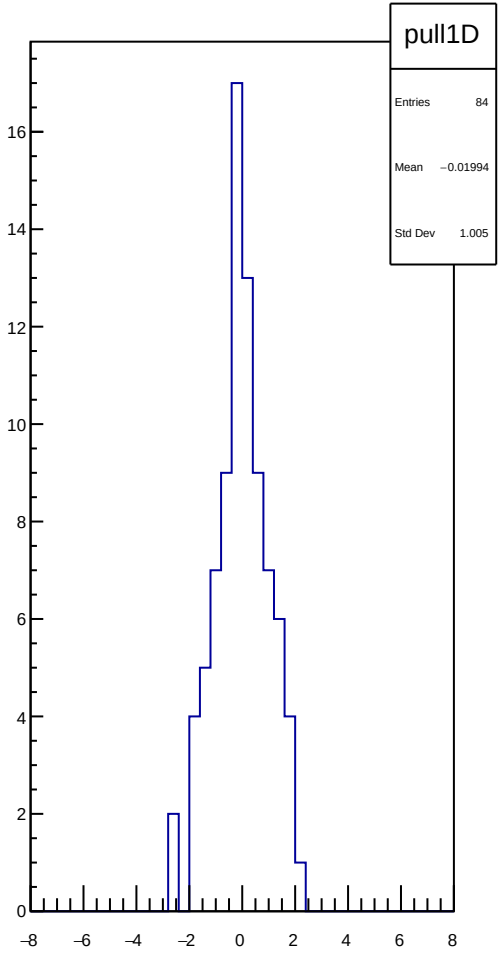

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 83.27 / 83
p0 52.62 ± 2.359
pull
Entries 84
Mean 54.8
Std Dev 0

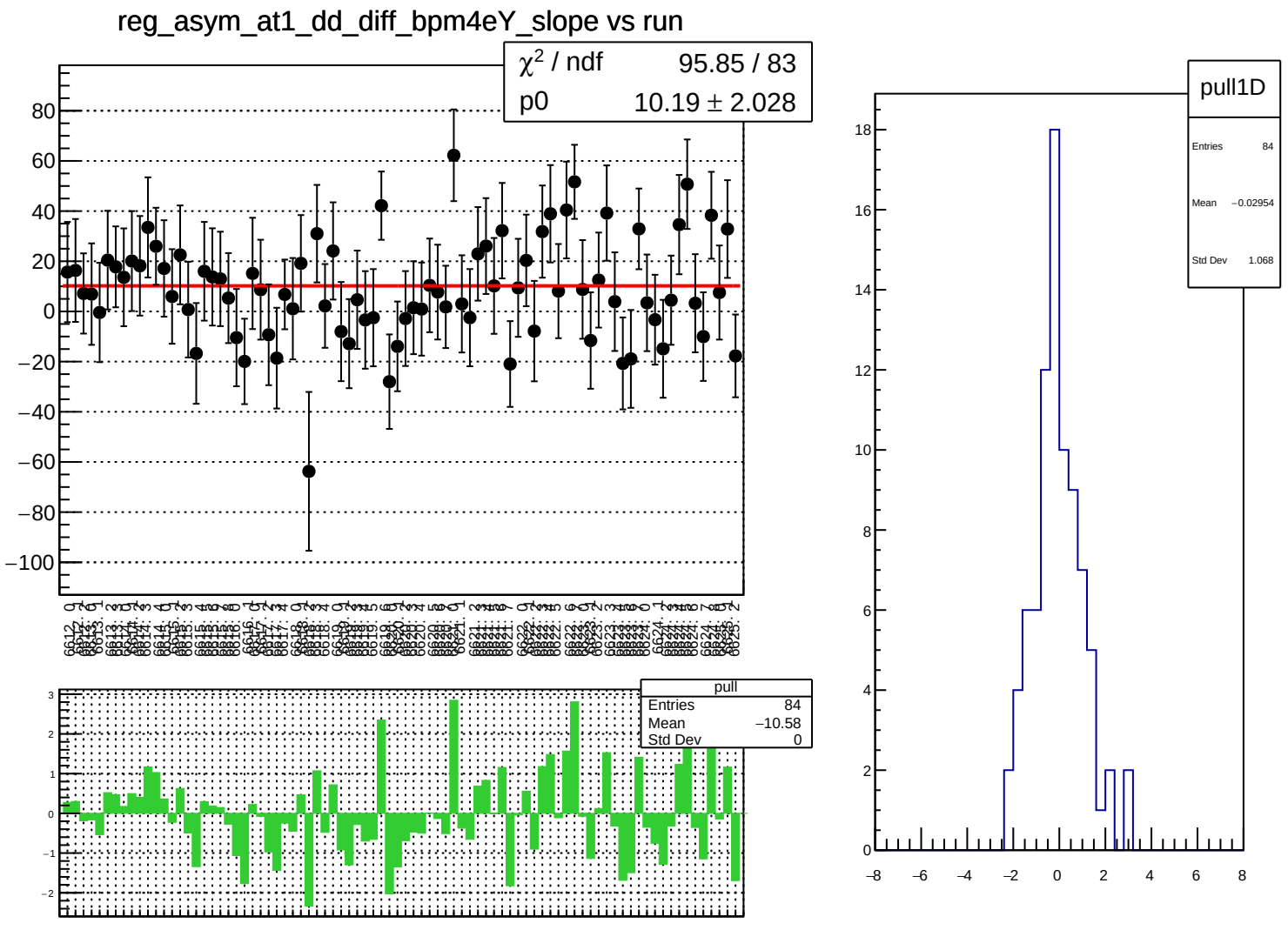

pull1D
Entries 84
Mean 0.01977
Std Dev 0.9954

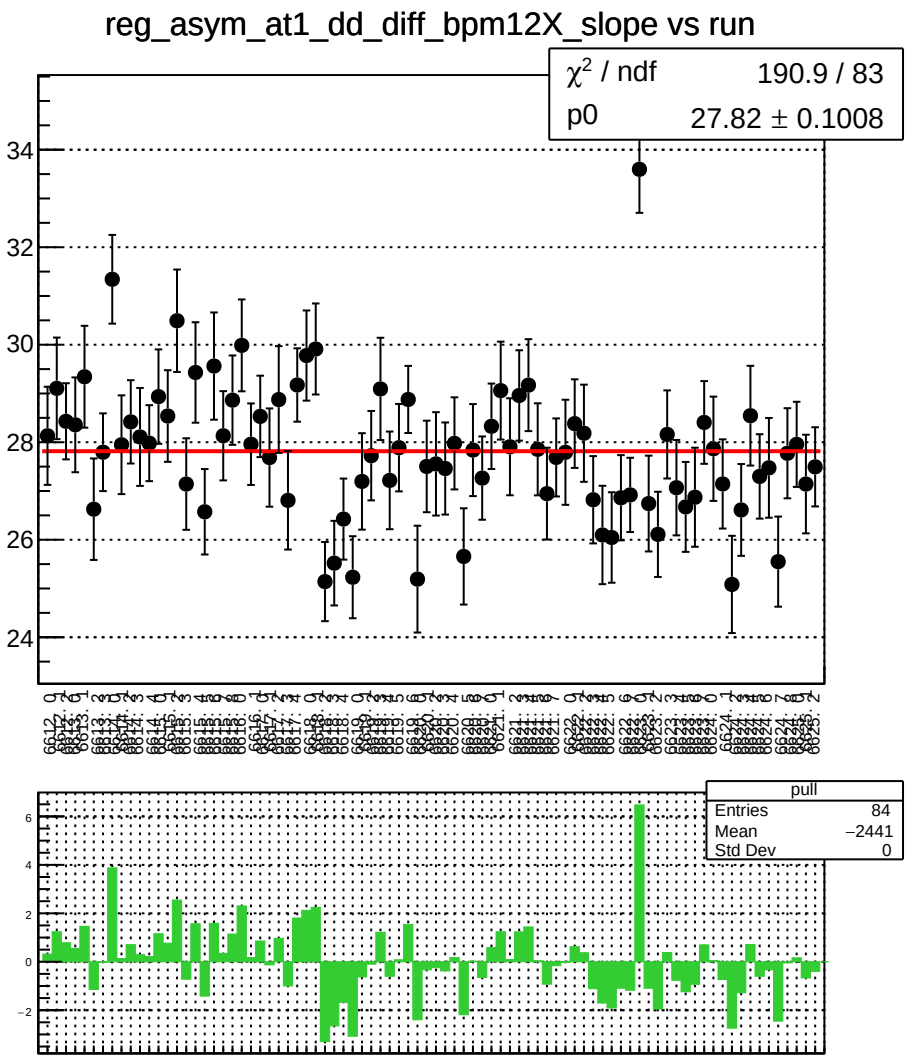

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 88.5 / 83
p0 −12.63 ± 1.719
pull
Entries 84
Mean −22.28
Std Dev 0

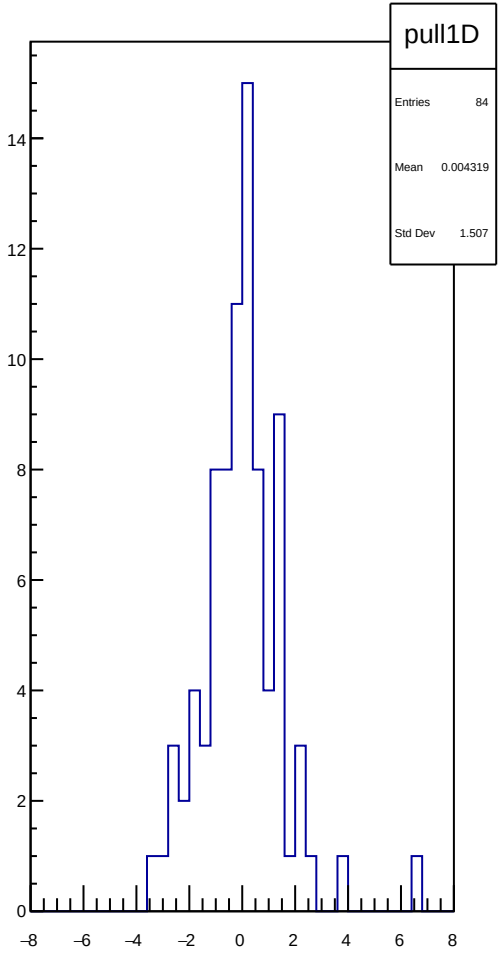

pull1D
Entries 84
Mean 0.0241
Std Dev 1.026

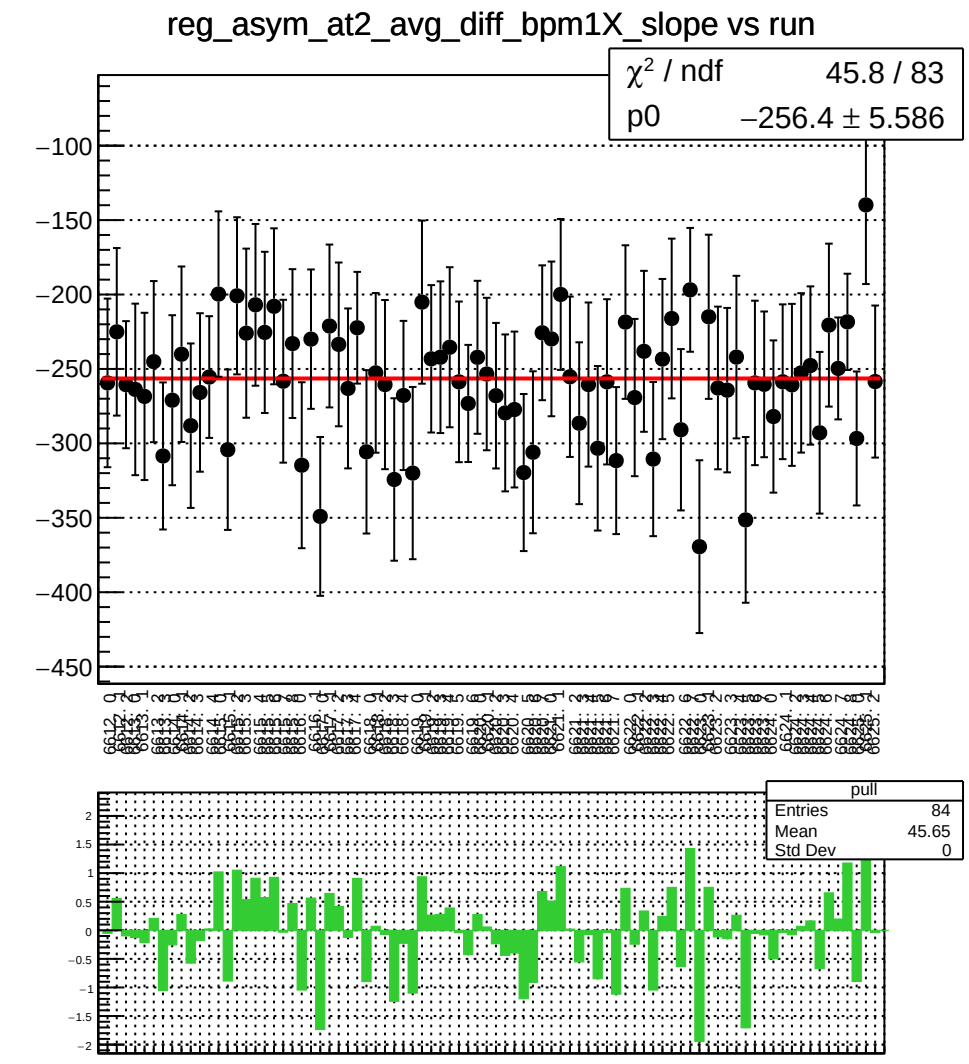

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.83 / 83
p0 −60.56 ± 2.427
pull
Entries 84
Mean 67.36
Std Dev 0

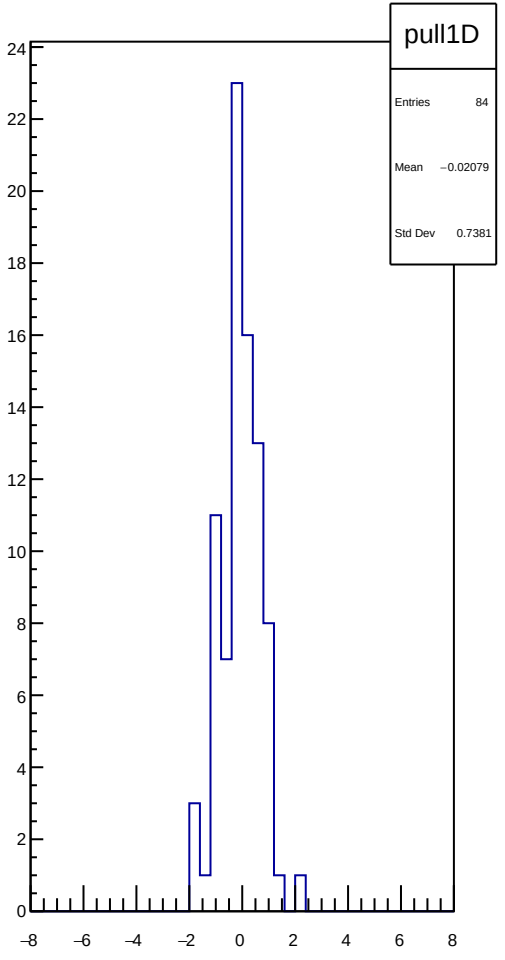

pull1D
Entries 84
Mean −0.01994
Std Dev 1.005

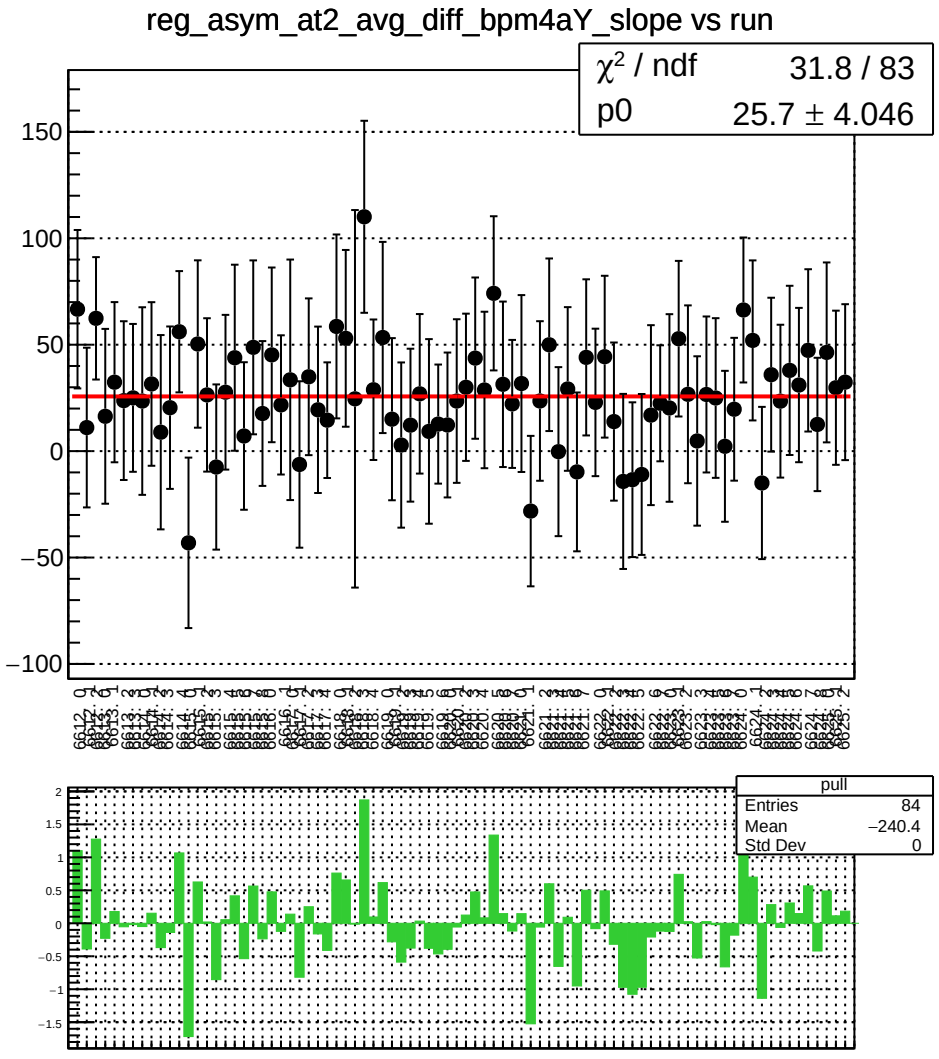

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 95.85 / 83
p0 10.19 ± 2.028
pull
Entries 84
Mean −10.58
Std Dev 0
pull1D
Entries 84
Mean −0.02954
Std Dev 1.068

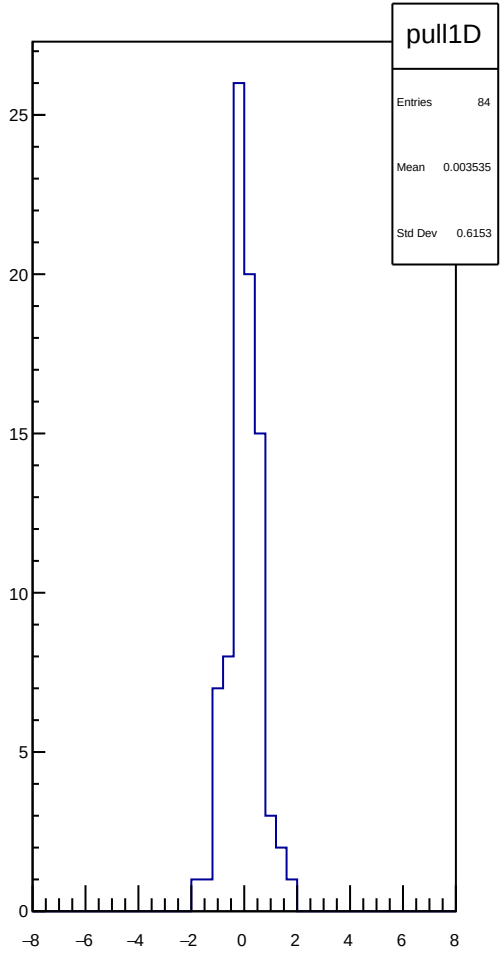

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 190.9 / 83
p0 27.82 ± 0.1008
pull
Entries 84
Mean −2441
Std Dev 0

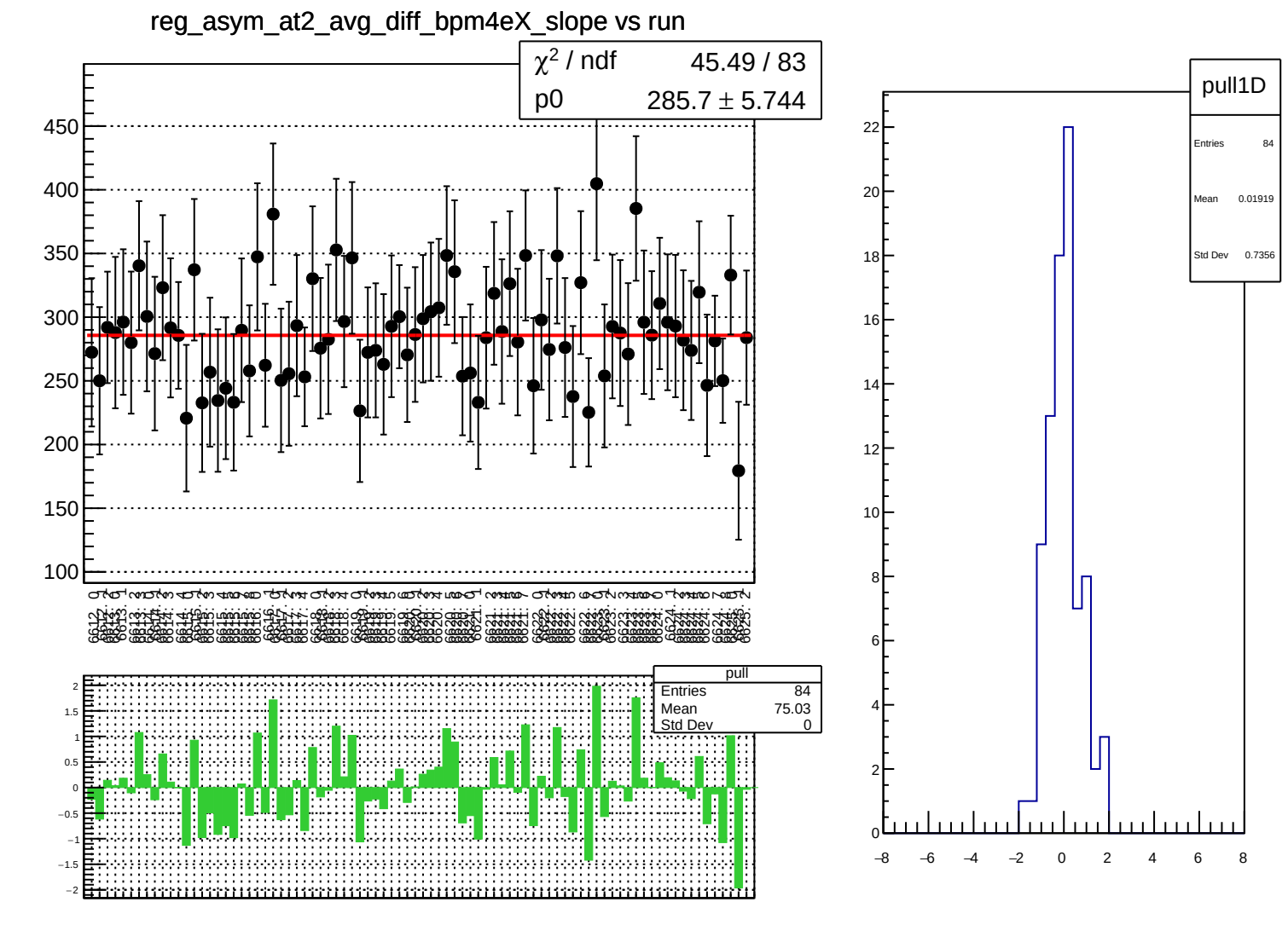

pull1D
Entries 84
Mean 0.004319
Std Dev 1.507

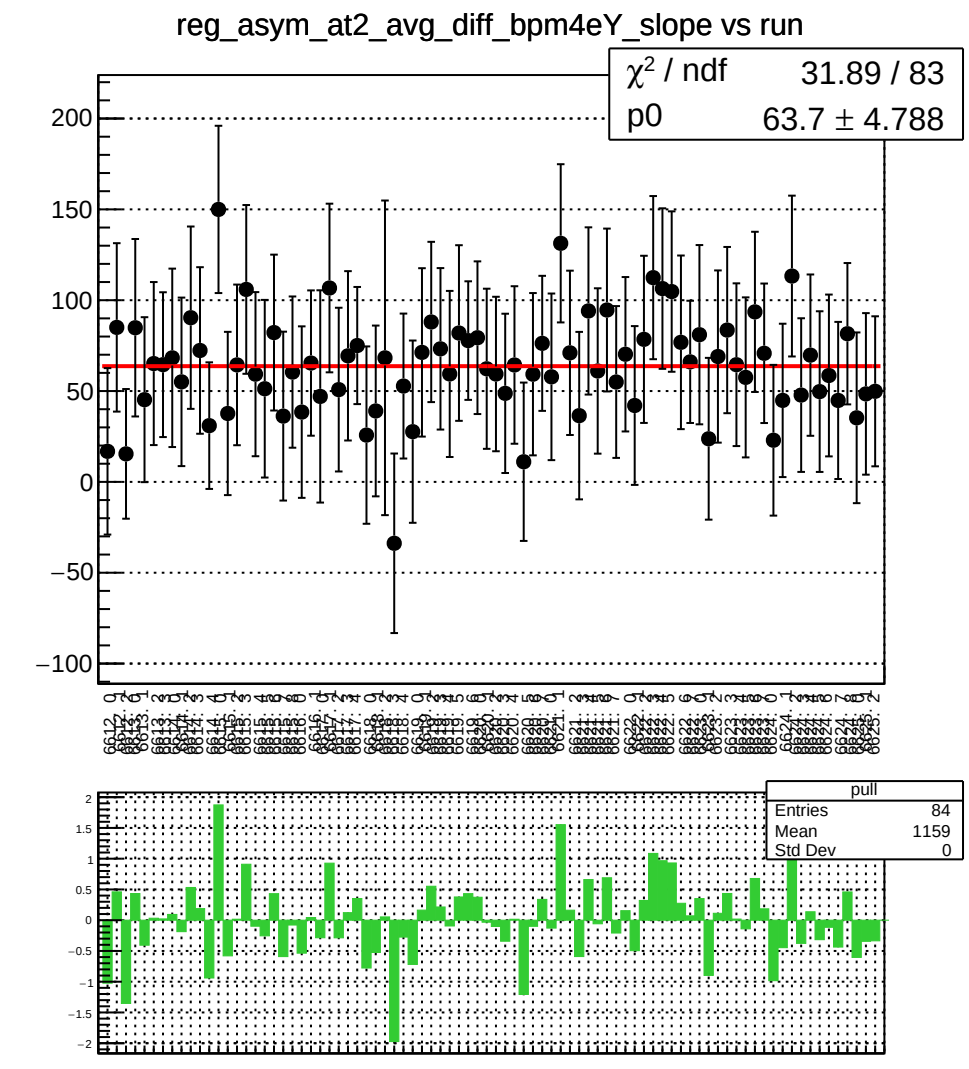

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 45.8 / 83
p0 −256.4 ± 5.586
pull
Entries 84
Mean 45.65
Std Dev 0

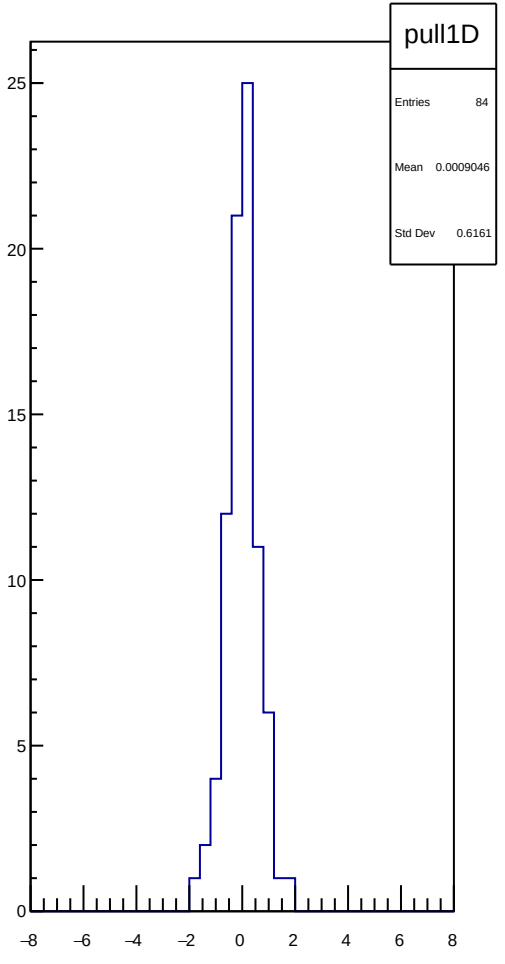

pull1D
Entries 84
Mean −0.02079
Std Dev 0.7381

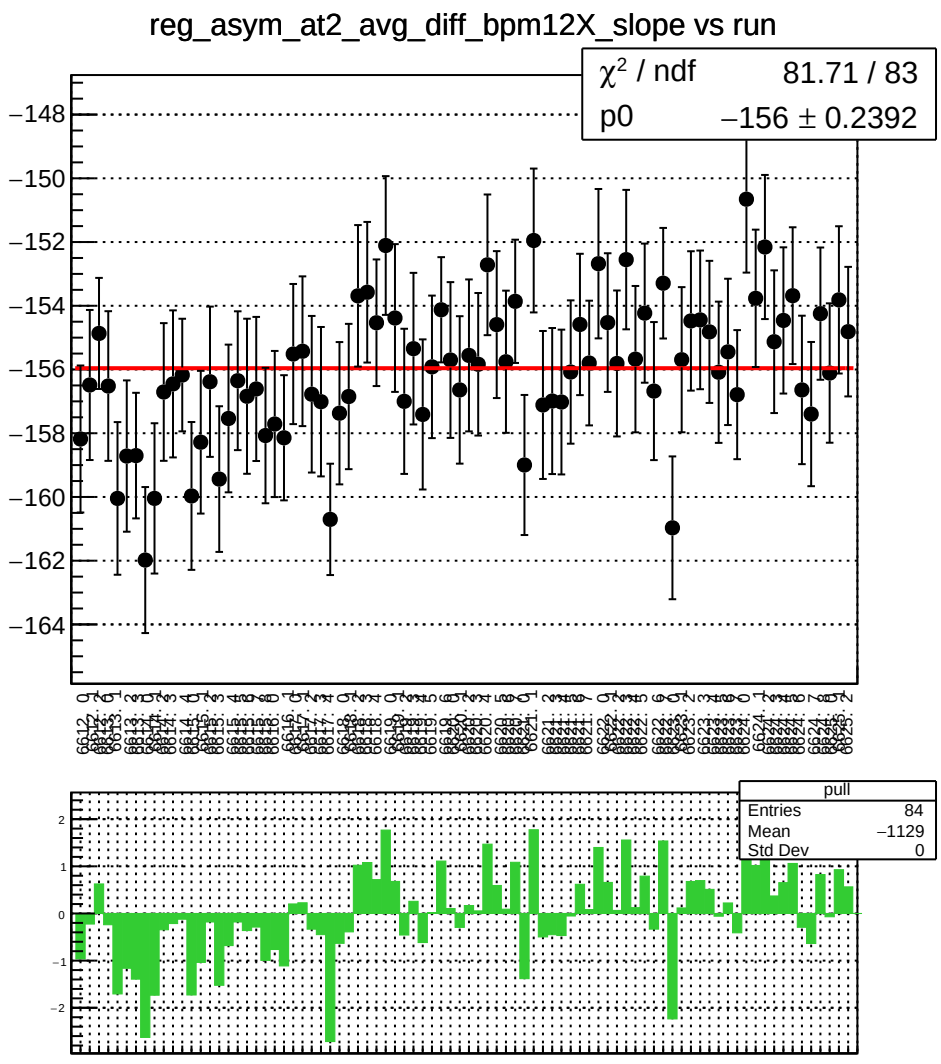

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.8 / 83
p0 25.7 ± 4.046
150
100
50
0
−50
−100
pull
Entries 84
Mean −240.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

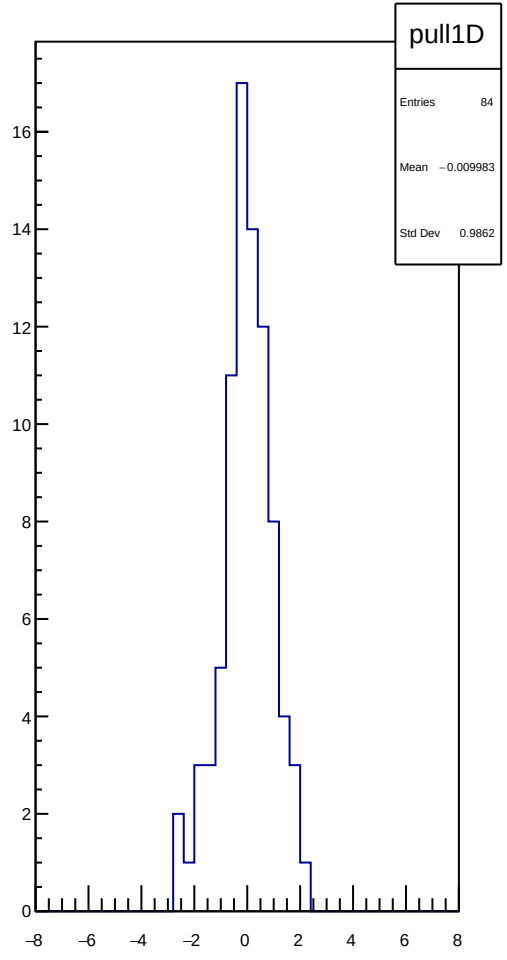

pull1D
Entries 84
Mean 0.003535
Std Dev 0.6153
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

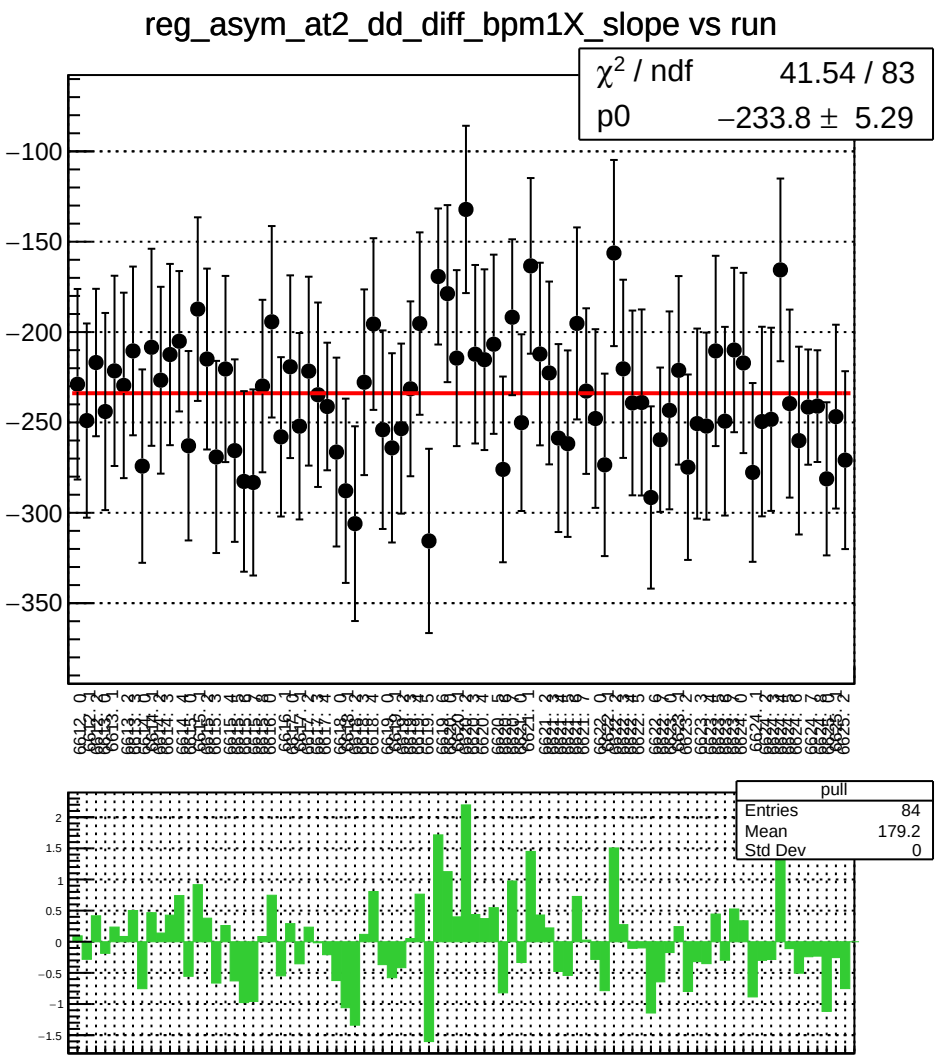

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.49 / 83
p0 285.7 ± 5.744
pull
Entries 84
Mean 75.03
Std Dev 0
pull1D
Entries 84
Mean 0.01919
Std Dev 0.7356

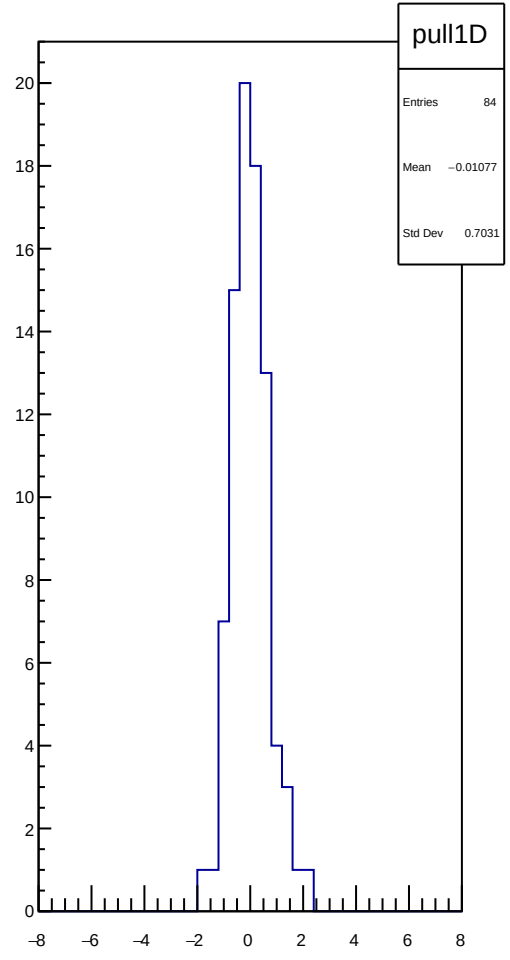

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.89 / 83
p0 63.7 ± 4.788
pull
Entries 84
Mean 1159
Std Dev 0

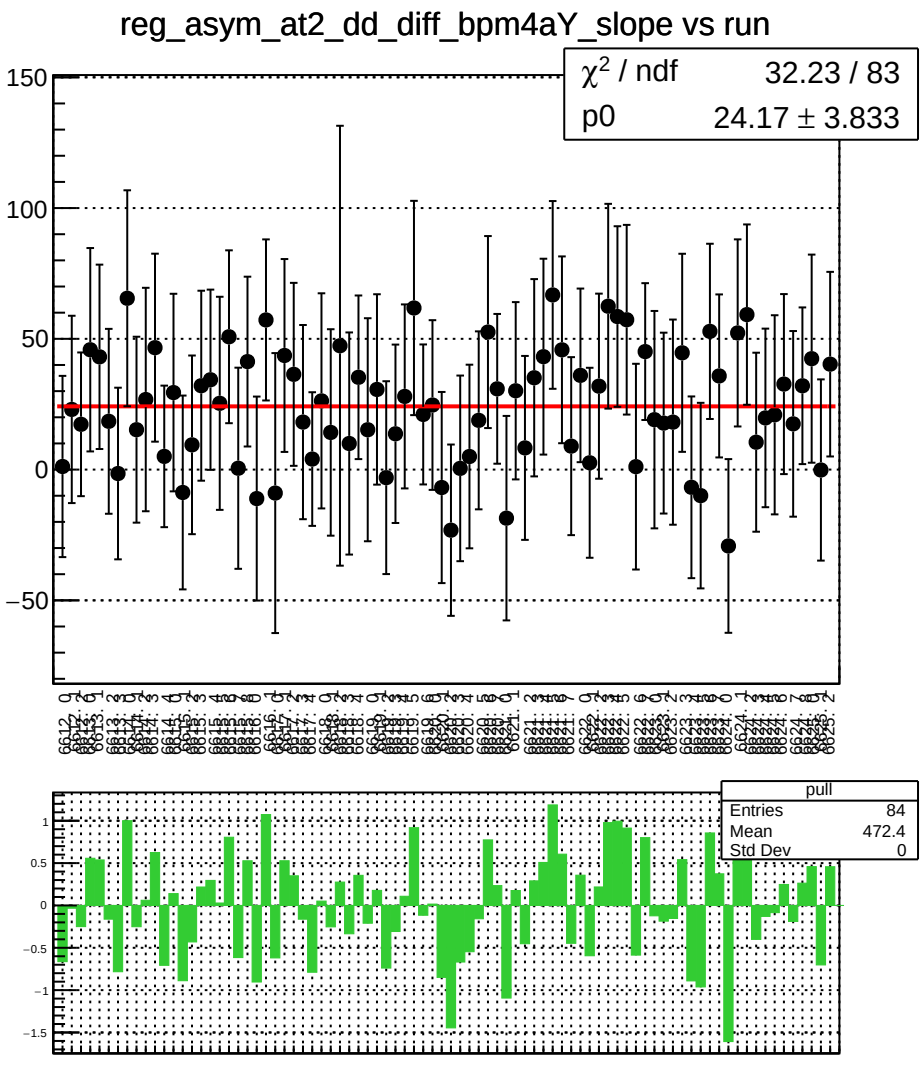

pull1D
Entries 84
Mean 0.0009046
Std Dev 0.6161

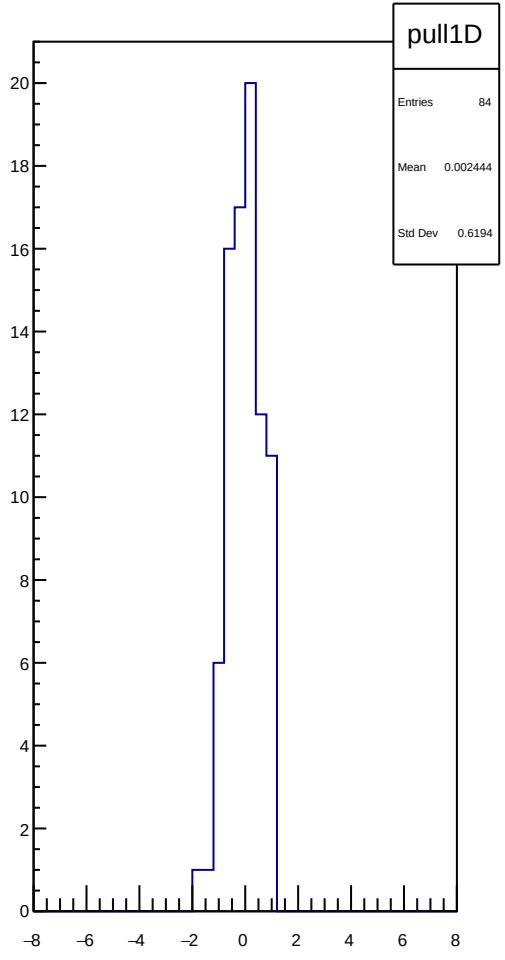

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 81.71 / 83
p0 −156 ± 0.2392
−148
−150
−152
−154
−156
−158
−160
−162
−164
pull
Entries 84
Mean −1129
Std Dev 0
2
1
0
−1
−2

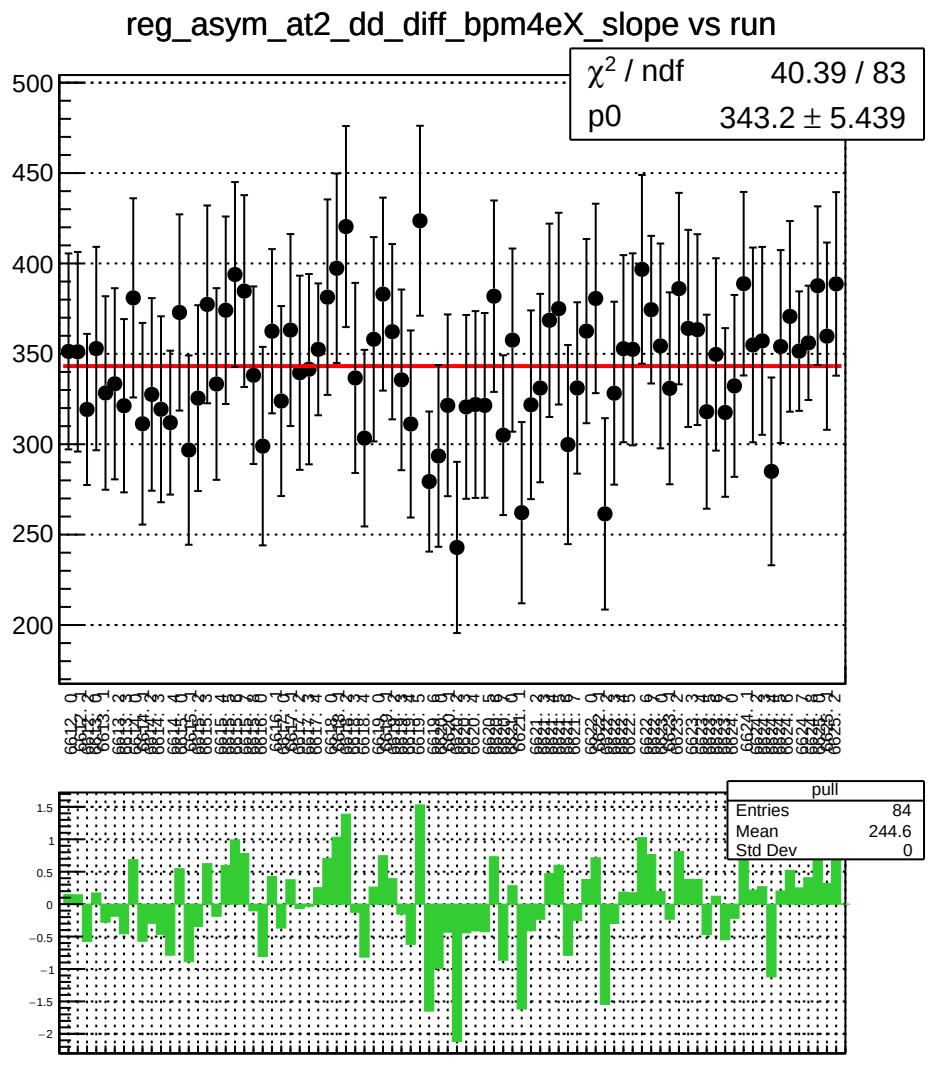

pull1D
Entries 84
Mean −0.009983
Std Dev 0.9862
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

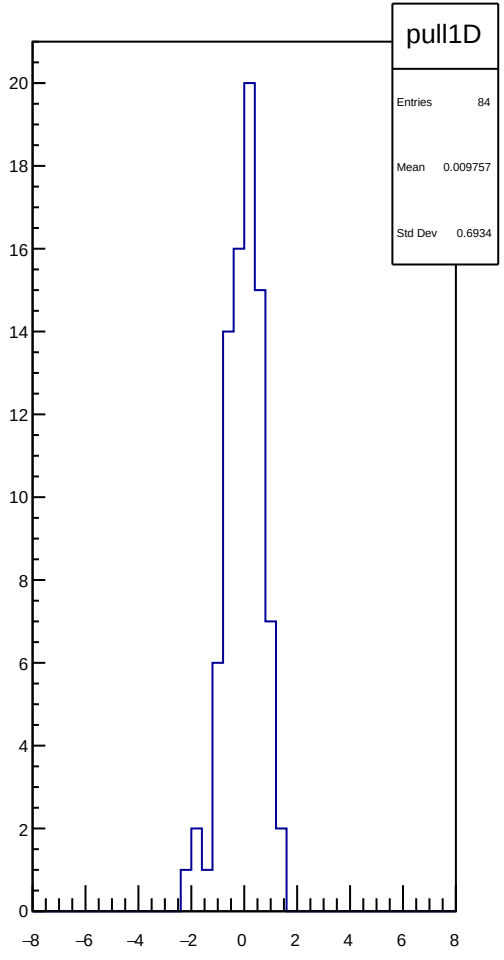

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 41.54 / 83
p0 −233.8 ± 5.29
−100
−150
−200
−250
−300
−350
pull
Entries 84
Mean 179.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

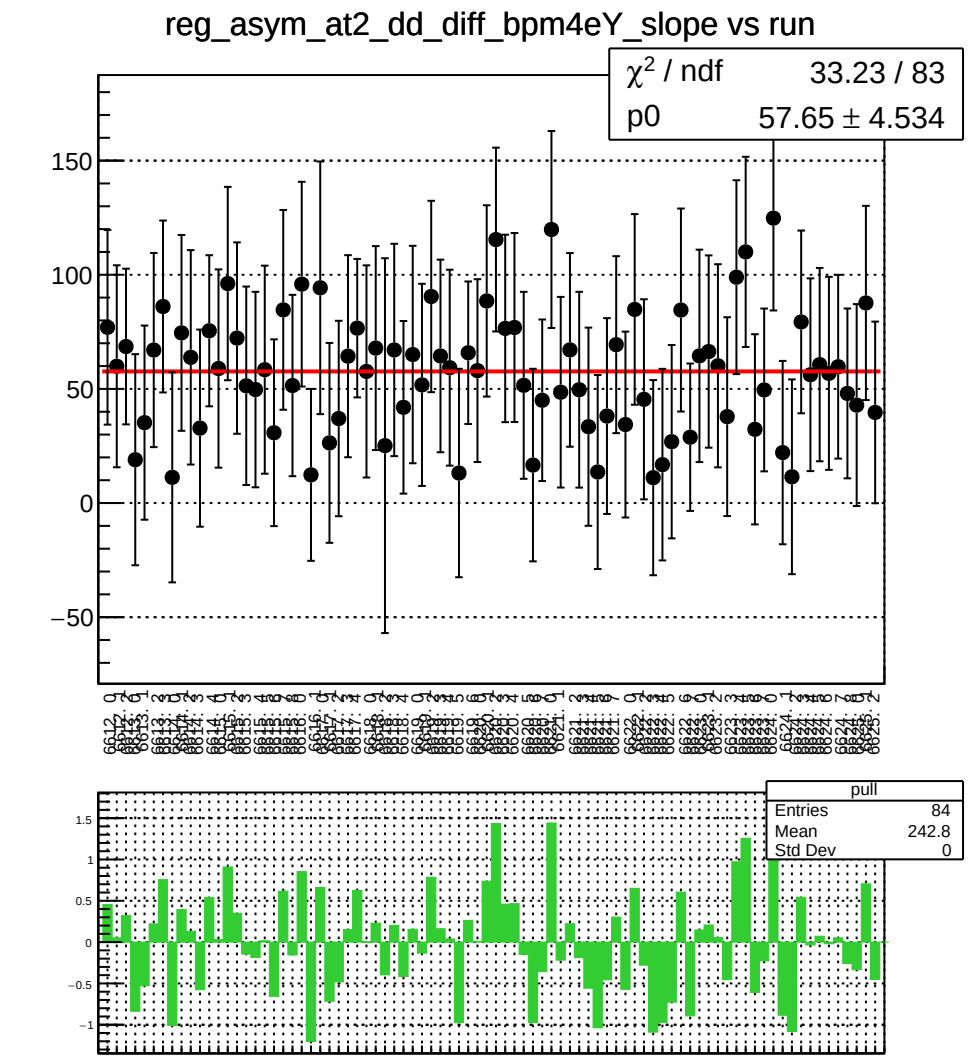

pull1D
Entries 84
Mean −0.01077
Std Dev 0.7031
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

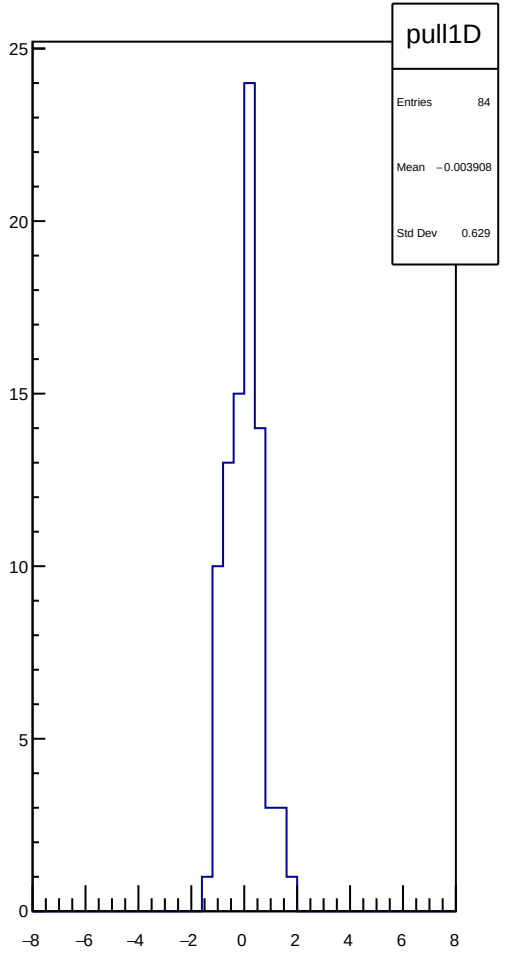

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.23 / 83
p0 24.17 ± 3.833
150
100
50
0
−50
pull
Entries 84
Mean 472.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

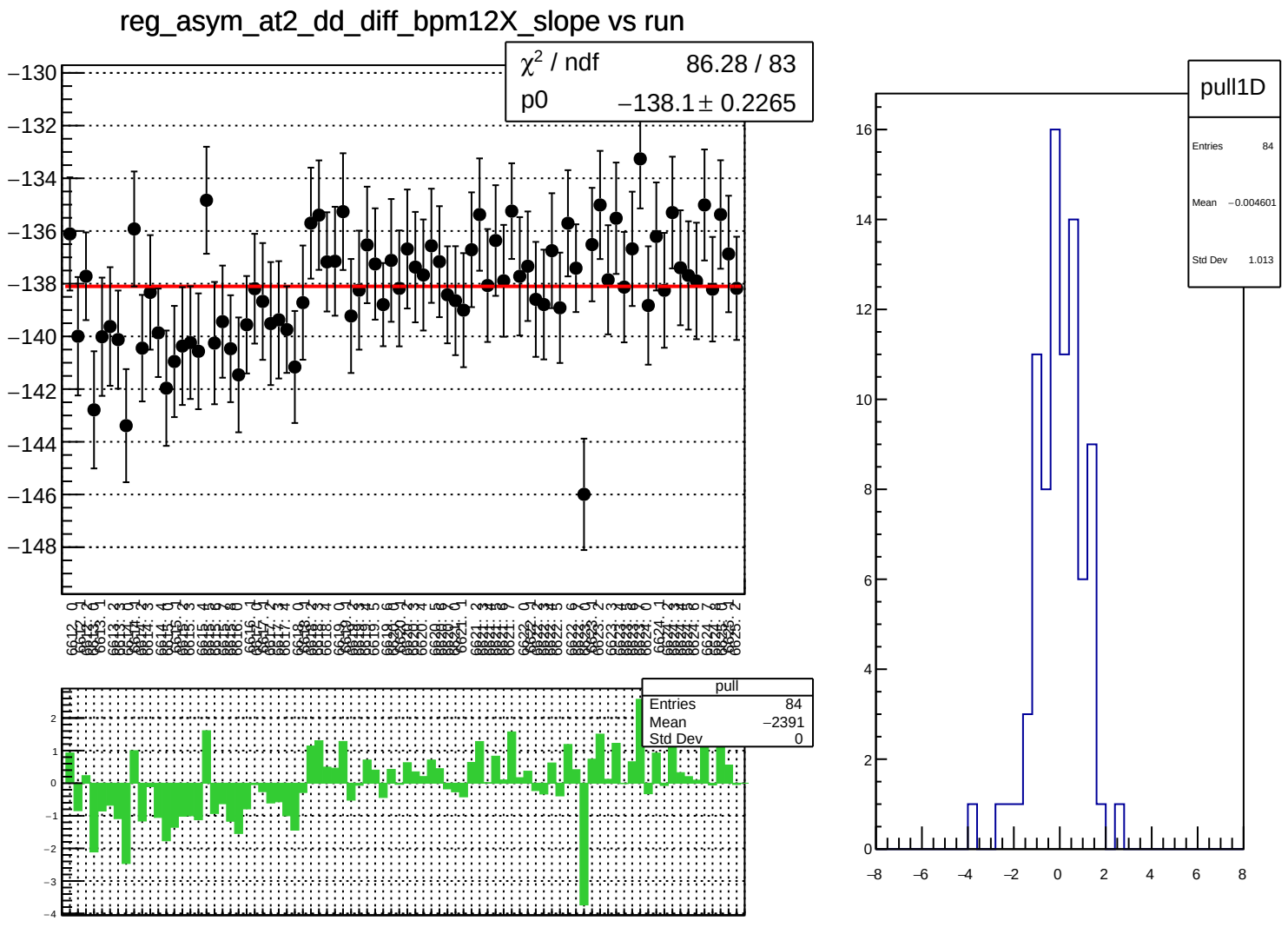

pull1D
Entries 84
Mean 0.002444
Std Dev 0.6194
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

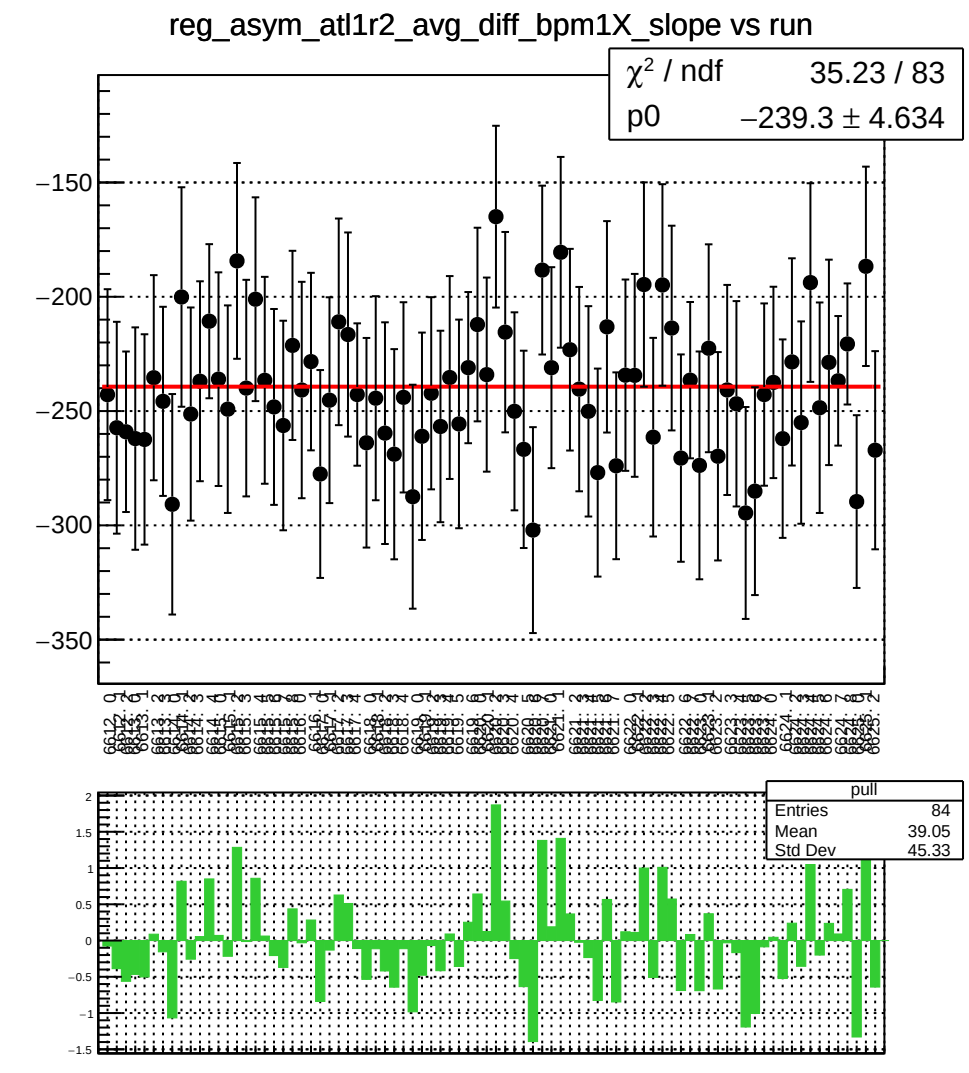

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 40.39 / 83
p0 343.2 ± 5.439
pull
Entries 84
Mean 244.6
Std Dev 0

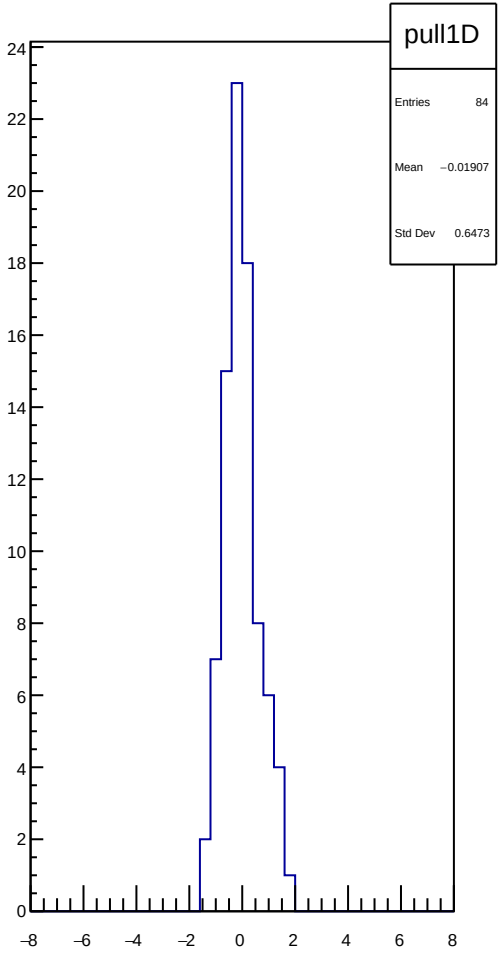

pull1D
Entries 84
Mean 0.009757
Std Dev 0.6934

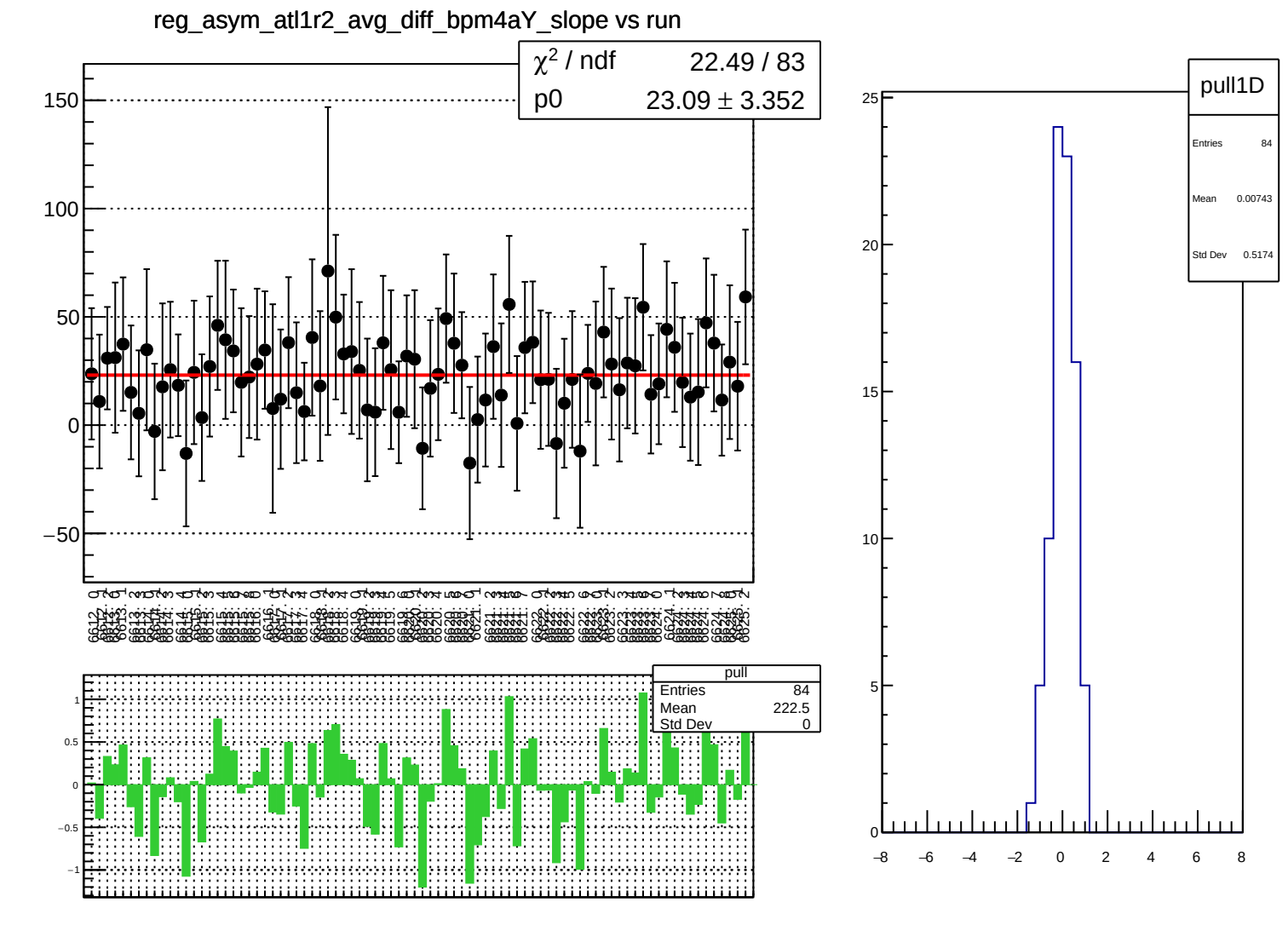

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.23 / 83
p0 57.65 ± 4.534
150
100
50
0
−50
pull
Entries 84
Mean 242.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1

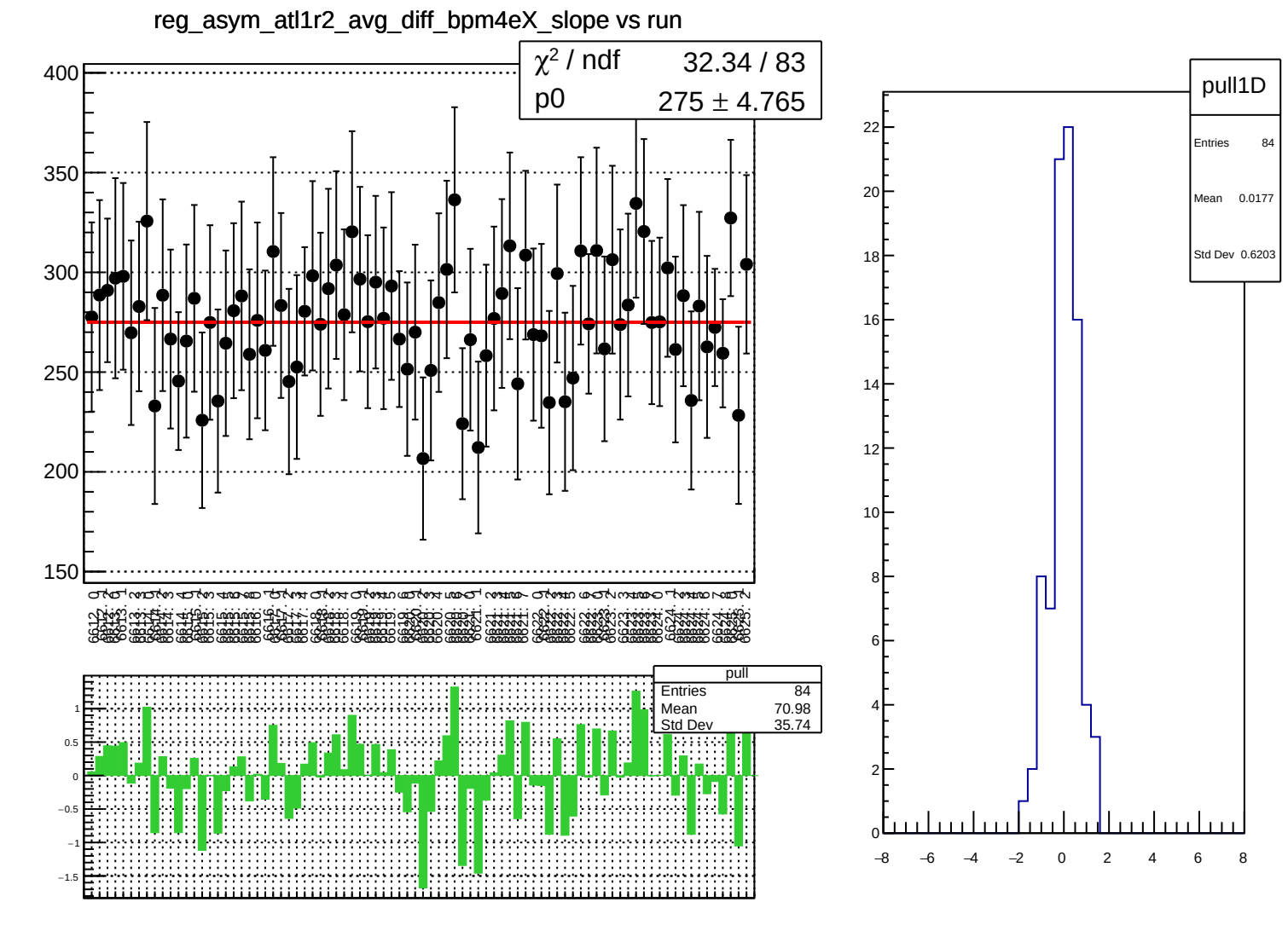

pull1D
Entries 84
Mean −0.003908
Std Dev 0.629
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

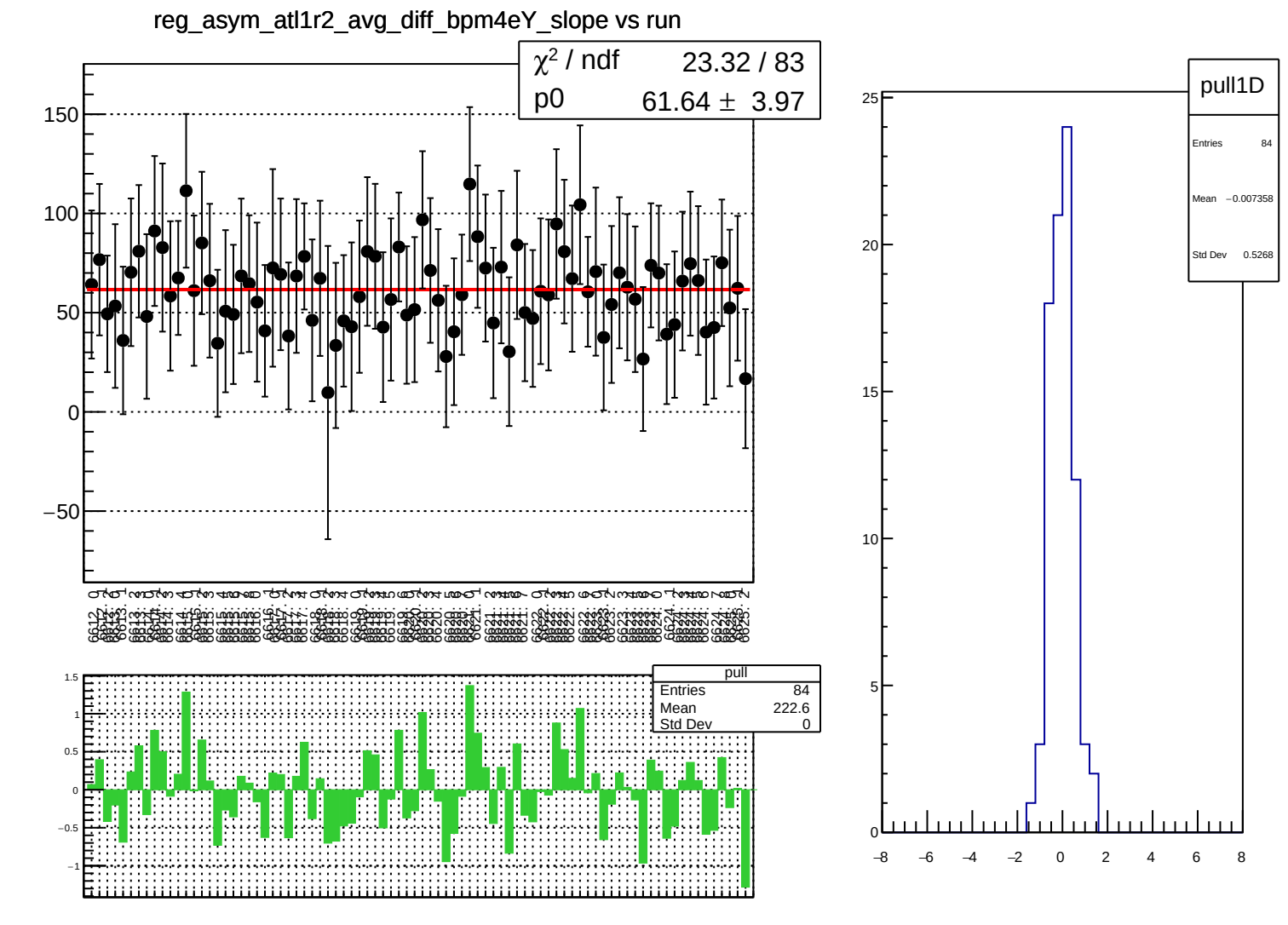

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 86.28 / 83
p0 −138.1 ± 0.2265
pull
Entries 84
Mean −2391
Std Dev 0
pull1D
Entries 84
Mean −0.004601
Std Dev 1.013

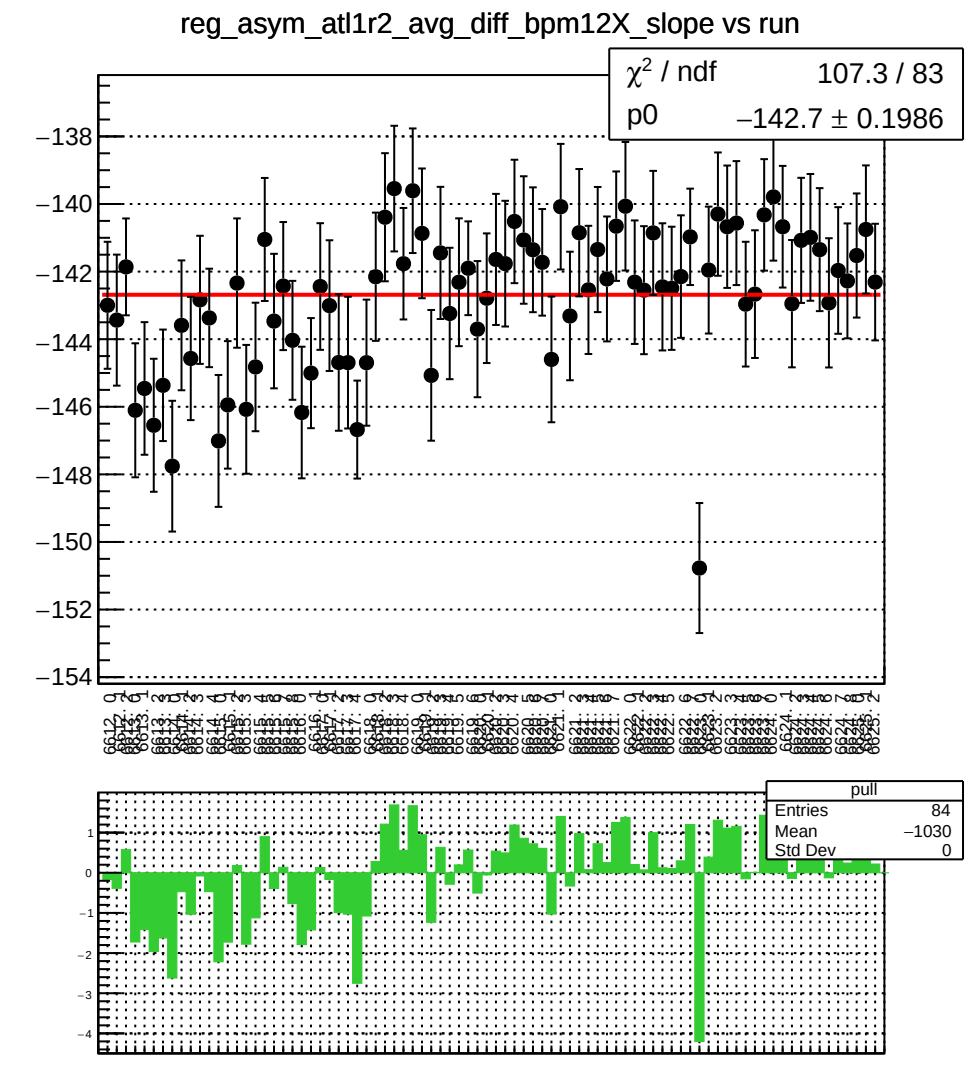

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 35.23 / 83
p0 −239.3 ± 4.634
pull
Entries 84
Mean 39.05
Std Dev 45.33

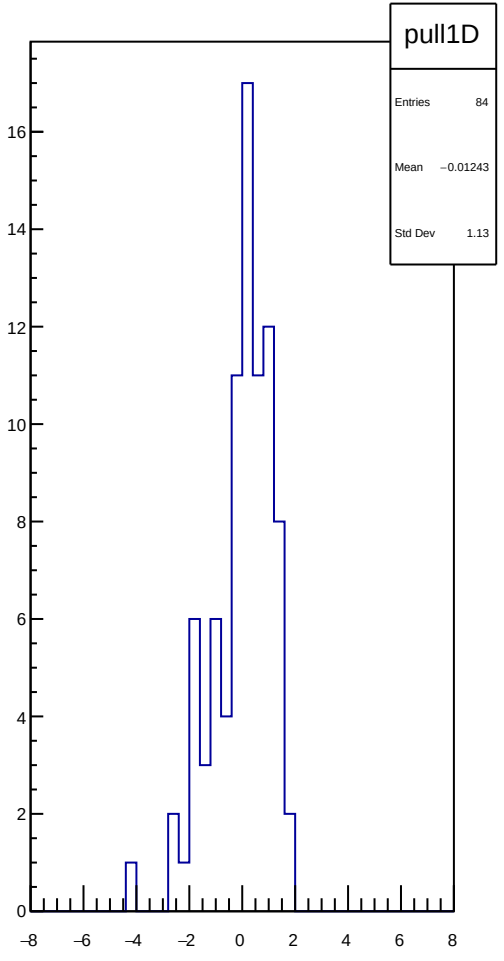

pull1D
Entries 84
Mean −0.01907
Std Dev 0.6473

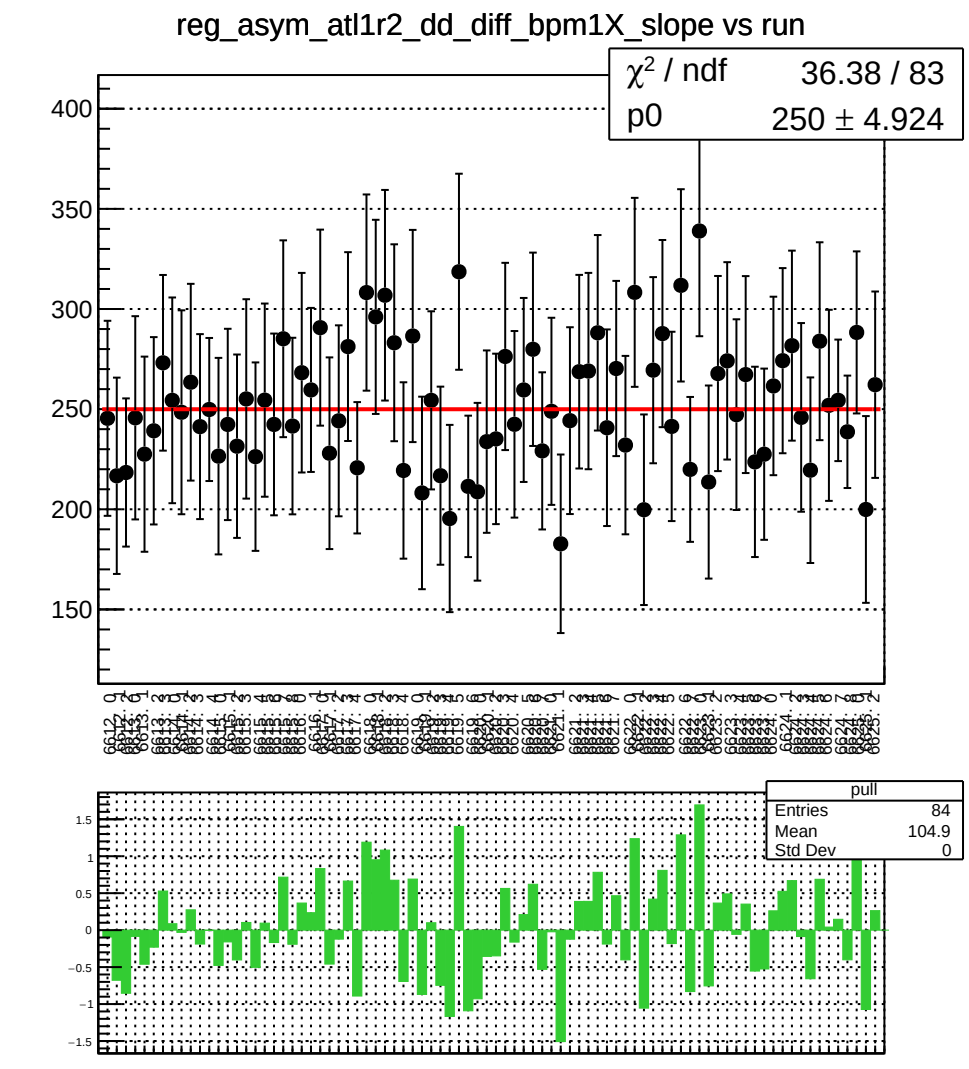

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.49 / 83
p0 23.09 ± 3.352
150
100
50
0
−50
pull
Entries 84
Mean 222.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean 0.00743
Std Dev 0.5174
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

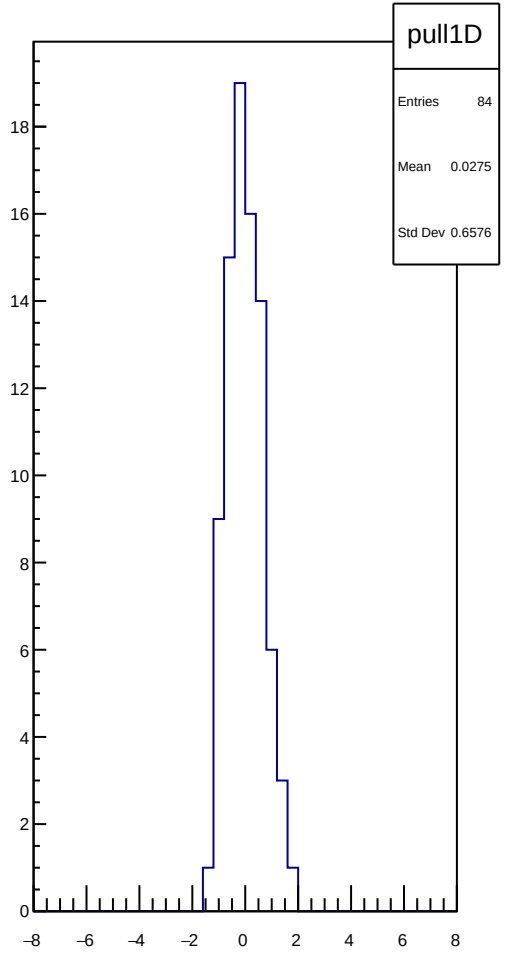

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.34 / 83
p0 275 ± 4.765
400
350
300
250
200
150
pull
Entries 84
Mean 70.98
Std Dev 35.74
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.0177
Std Dev 0.6203
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

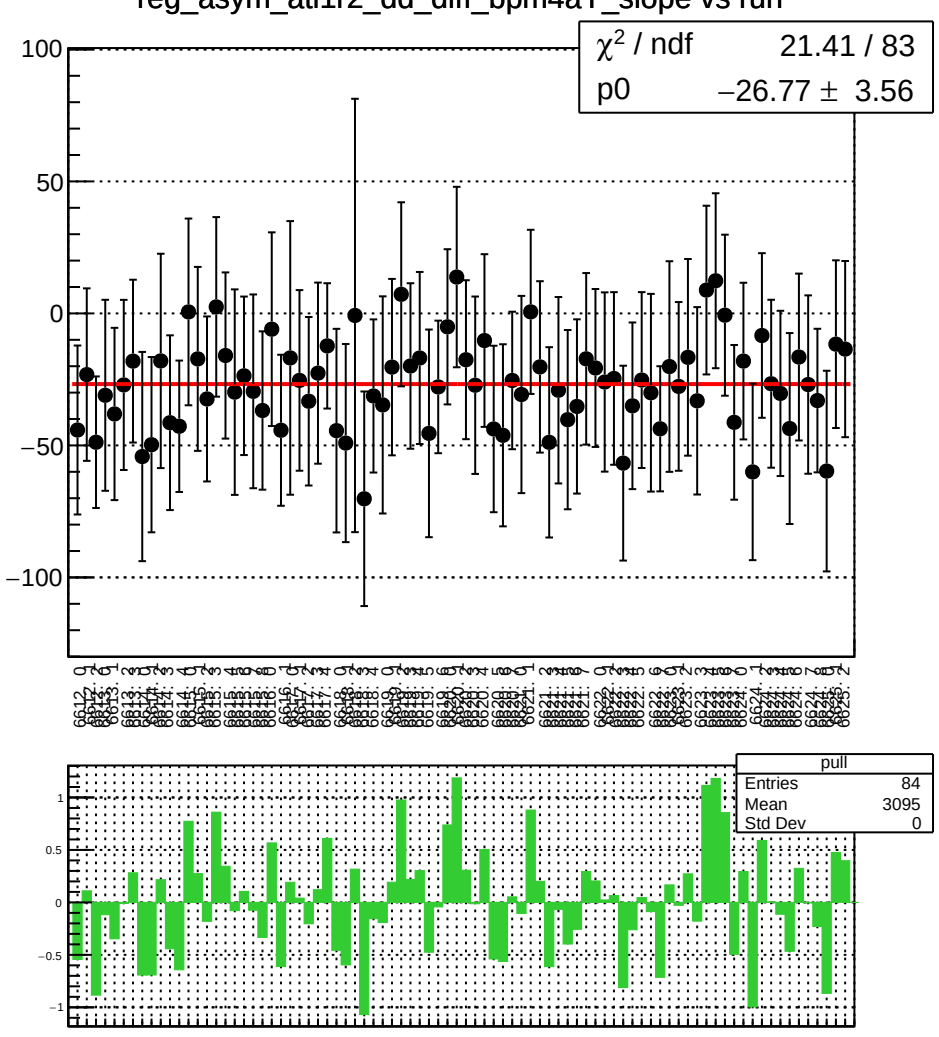

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.32 / 83
p0 61.64 ± 3.97
150
100
50
0
−50
pull
Entries 84
Mean 222.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean −0.007358
Std Dev 0.5268
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

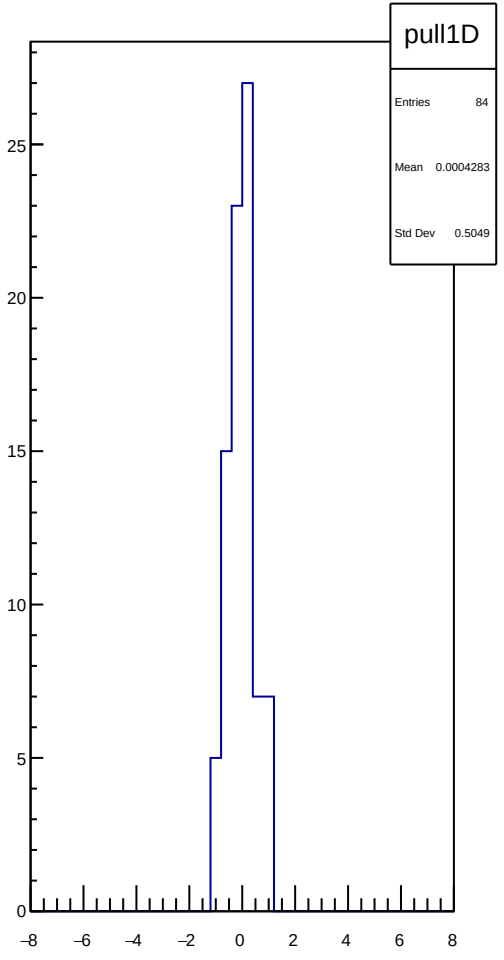

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 107.3 / 83
p0 −142.7 ± 0.1986
pull
Entries 84
Mean −1030
Std Dev 0

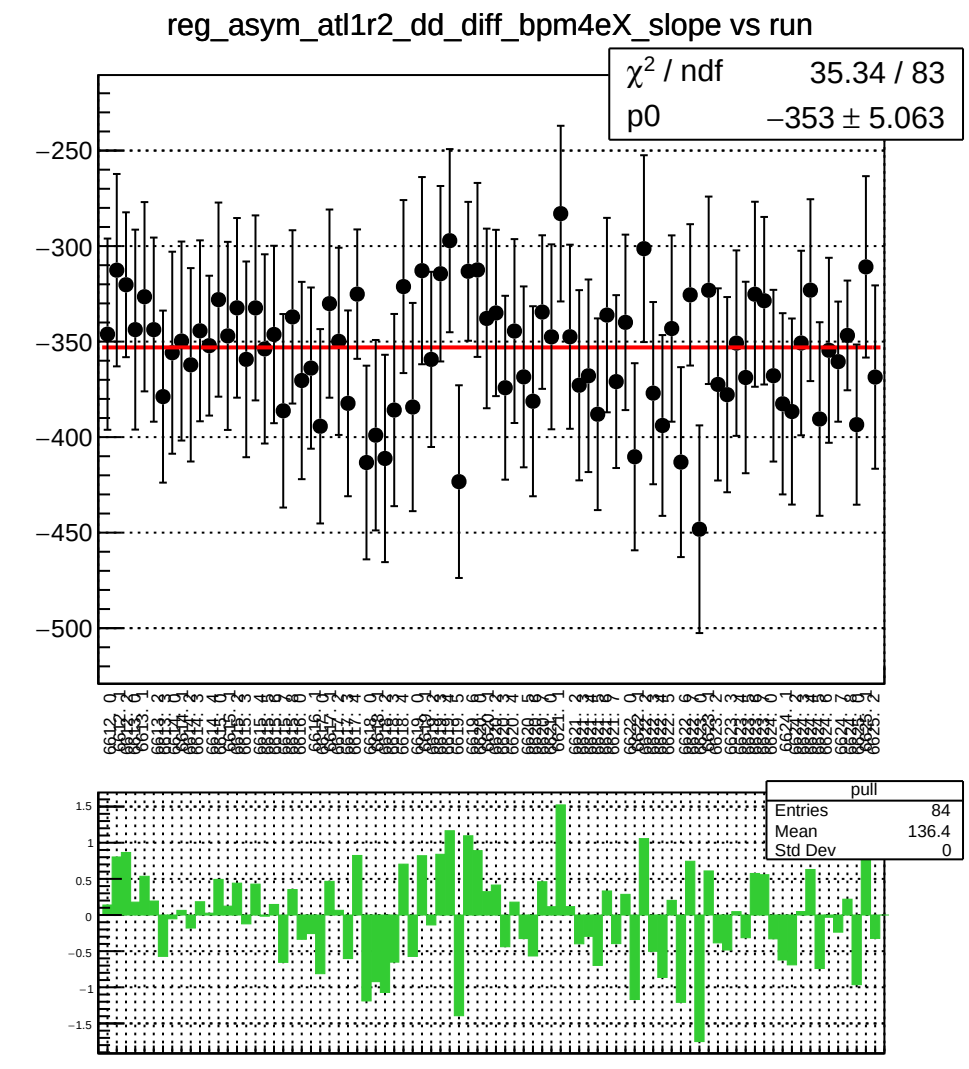

pull1D
Entries 84
Mean −0.01243
Std Dev 1.13

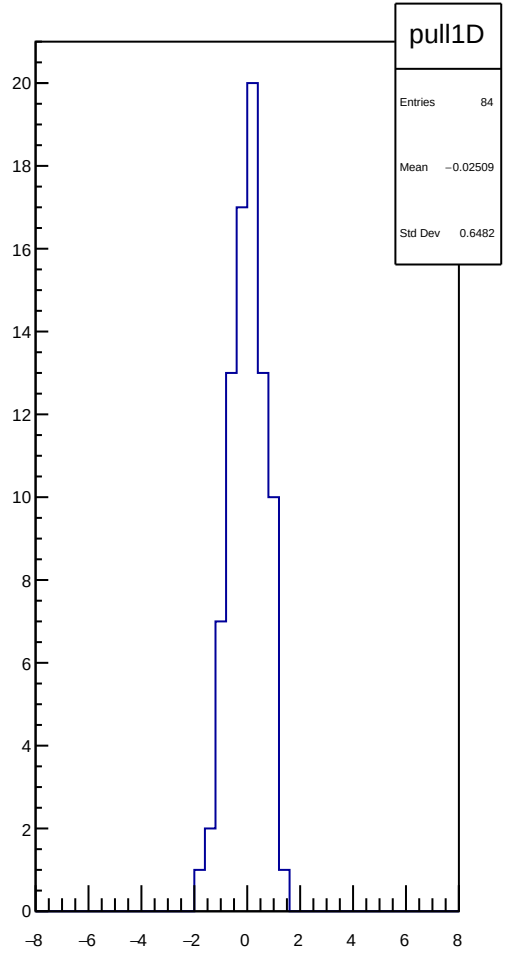

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 36.38 / 83
p0 250 ± 4.924
400
350
300
250
200
150
pull
Entries 84
Mean 104.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

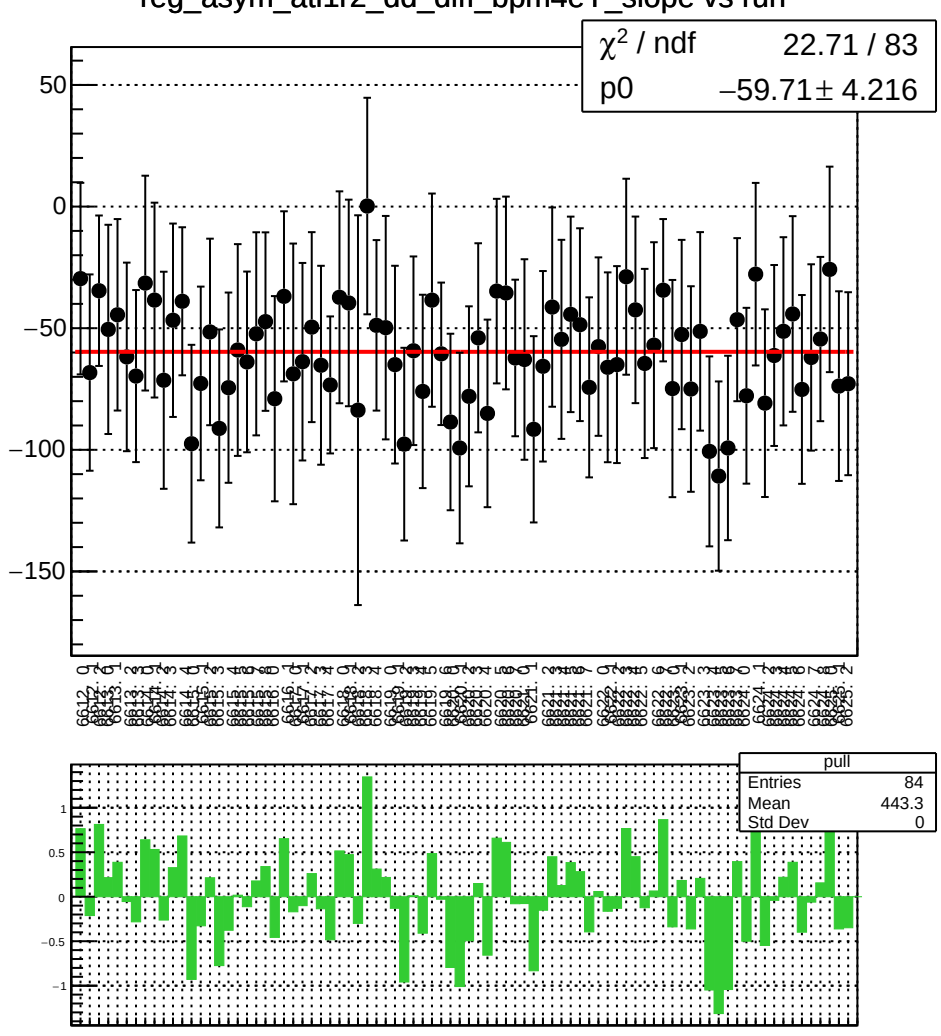

pull1D
Entries 84
Mean 0.0275
Std Dev 0.6576
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

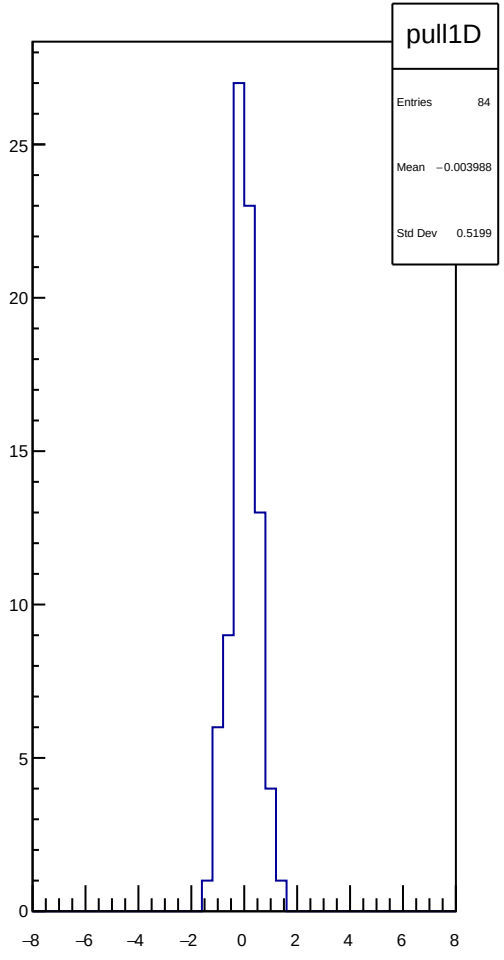

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.41 / 83
p0 −26.77 ± 3.56
pull
Entries 84
Mean 3095
Std Dev 0

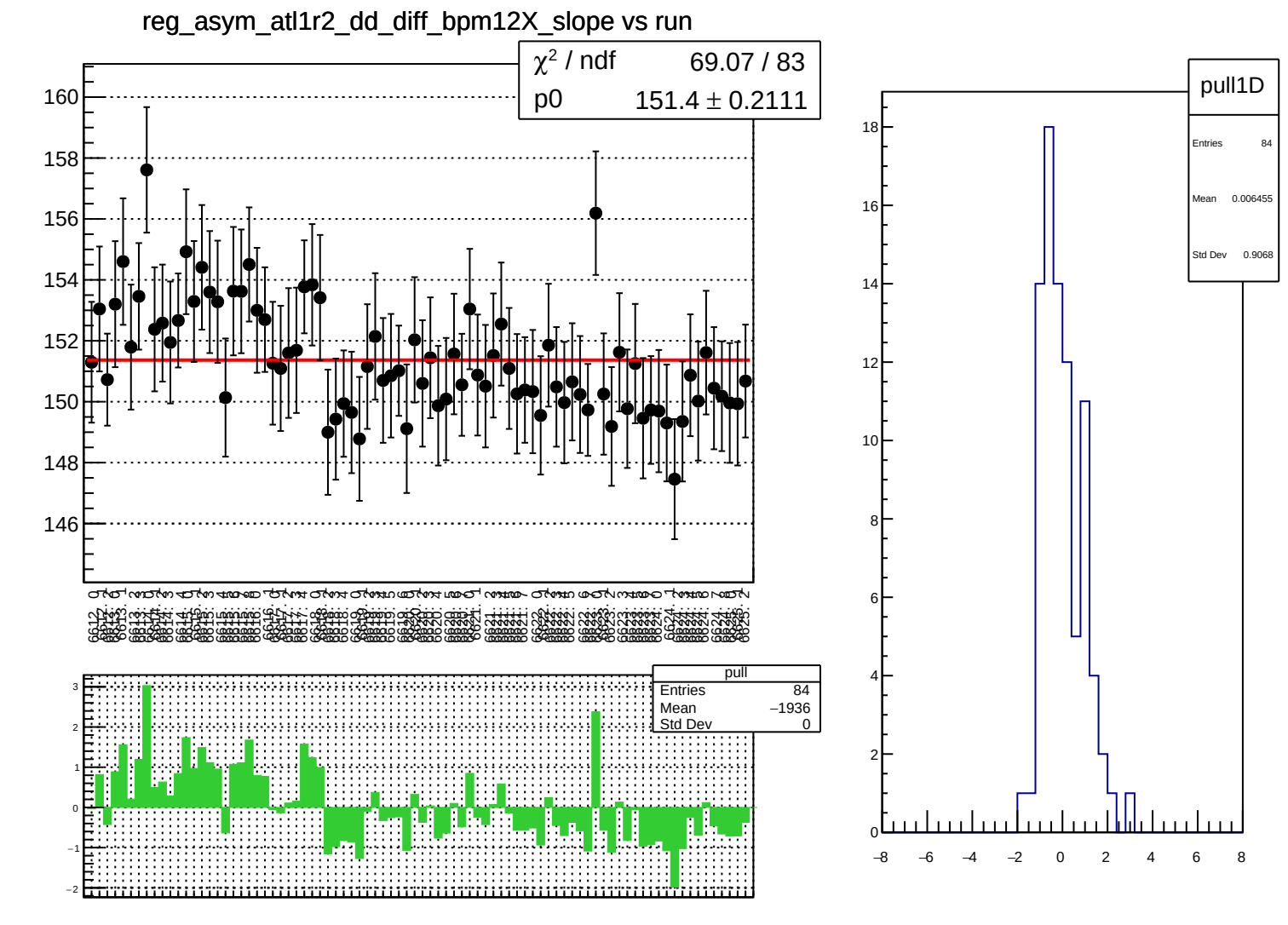

pull1D
Entries 84
Mean 0.0004283
Std Dev 0.5049

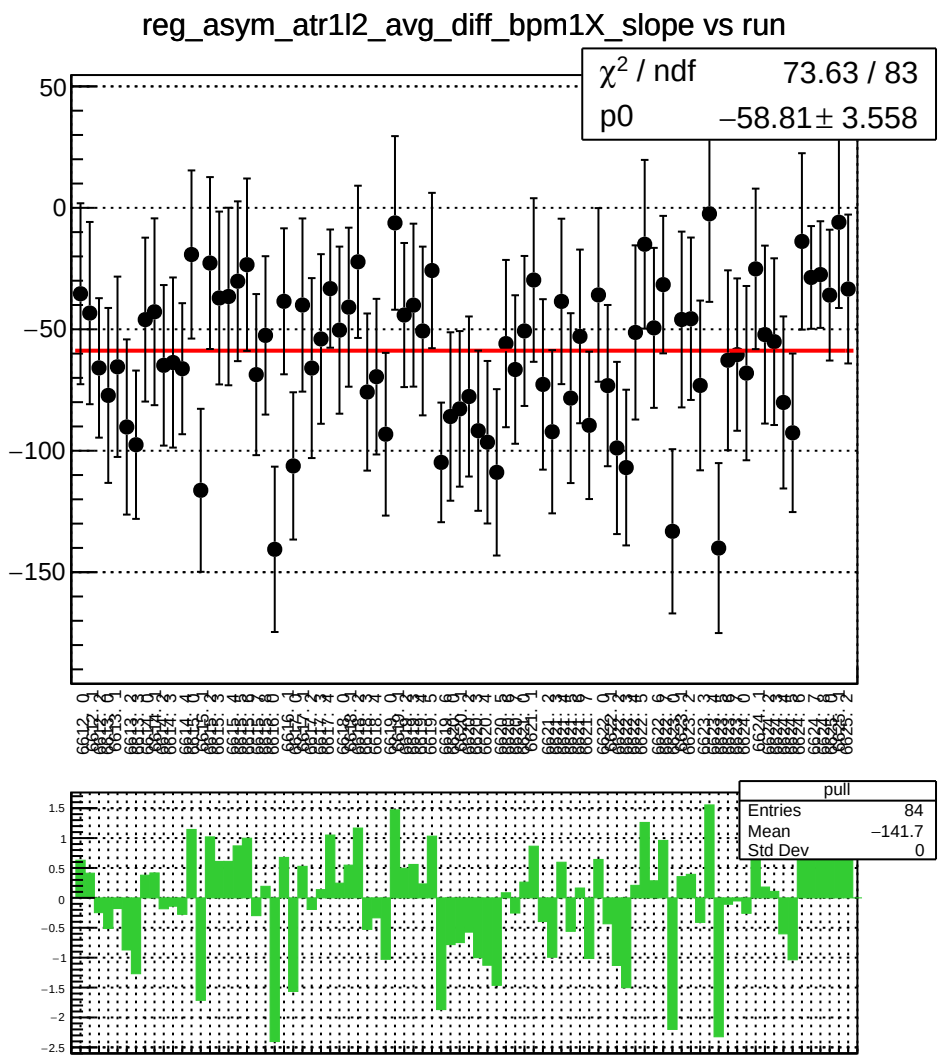

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.34 / 83
p0 −353 ± 5.063
−250
−300
−350
−400
−450
−500
pull
Entries 84
Mean 136.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

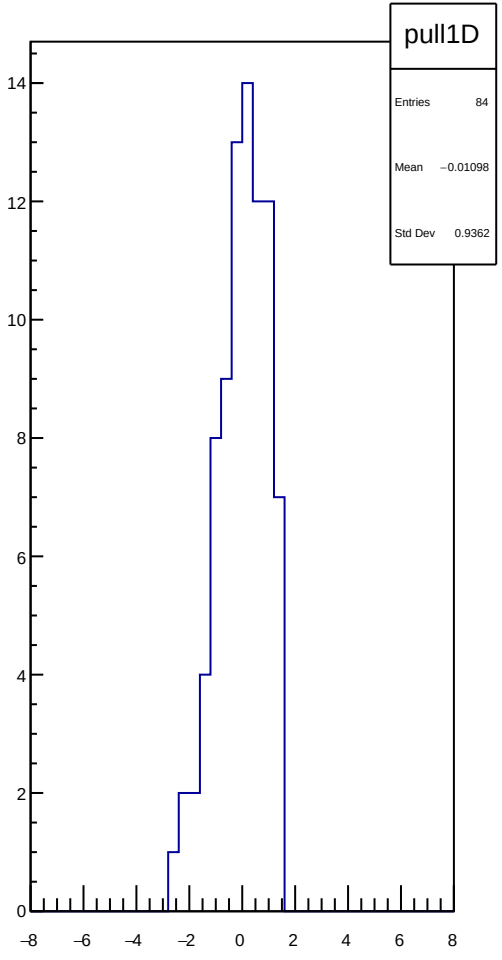

pull1D
Entries 84
Mean −0.02509
Std Dev 0.6482
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

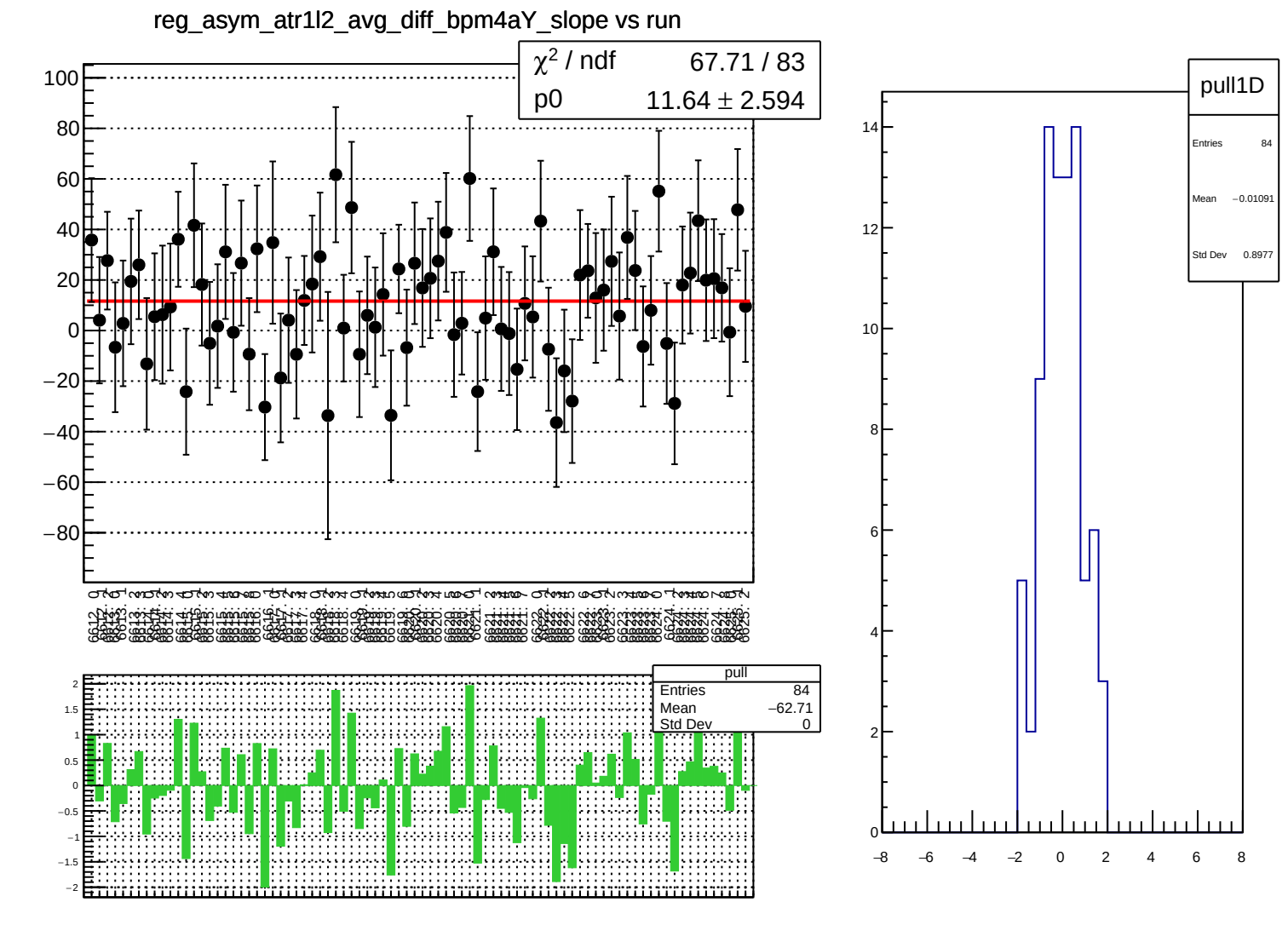

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.71 / 83
p0 −59.71 ± 4.216
50
0
−50
−100
−150
pull
Entries 84
Mean 443.3
Std Dev 0
1
0.5
0
−0.5
−1

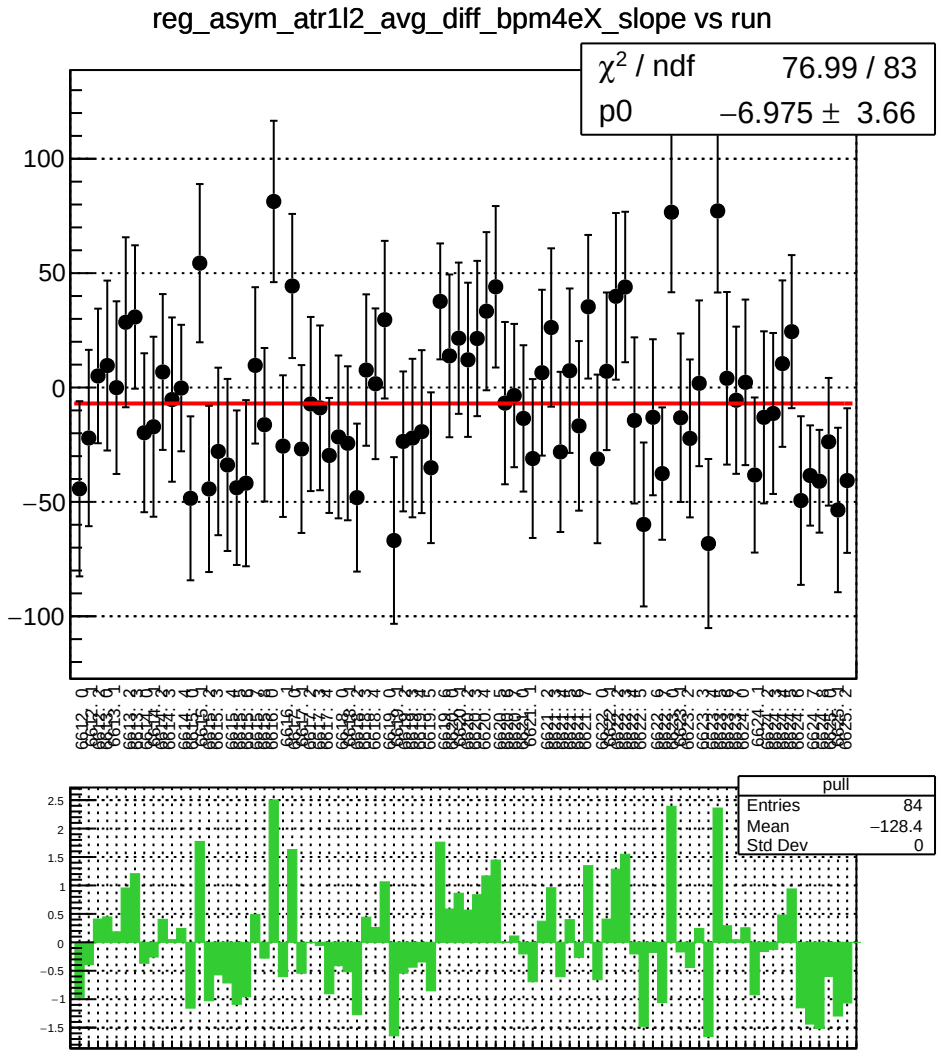

pull1D
Entries 84
Mean −0.003988
Std Dev 0.5199
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

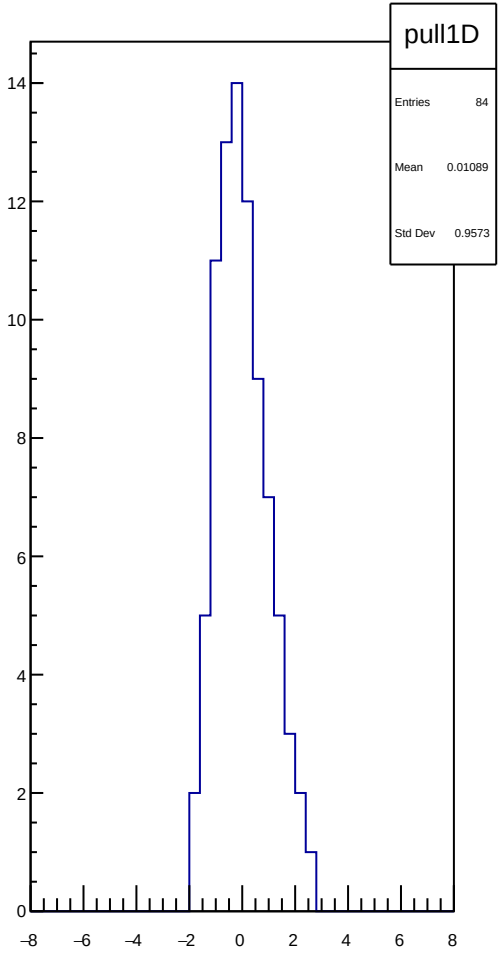

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 69.07 / 83
p0 151.4 ± 0.2111
160
158
156
154
152
150
148
146
pull
Entries 84
Mean −1936
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.006455
Std Dev 0.9068
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

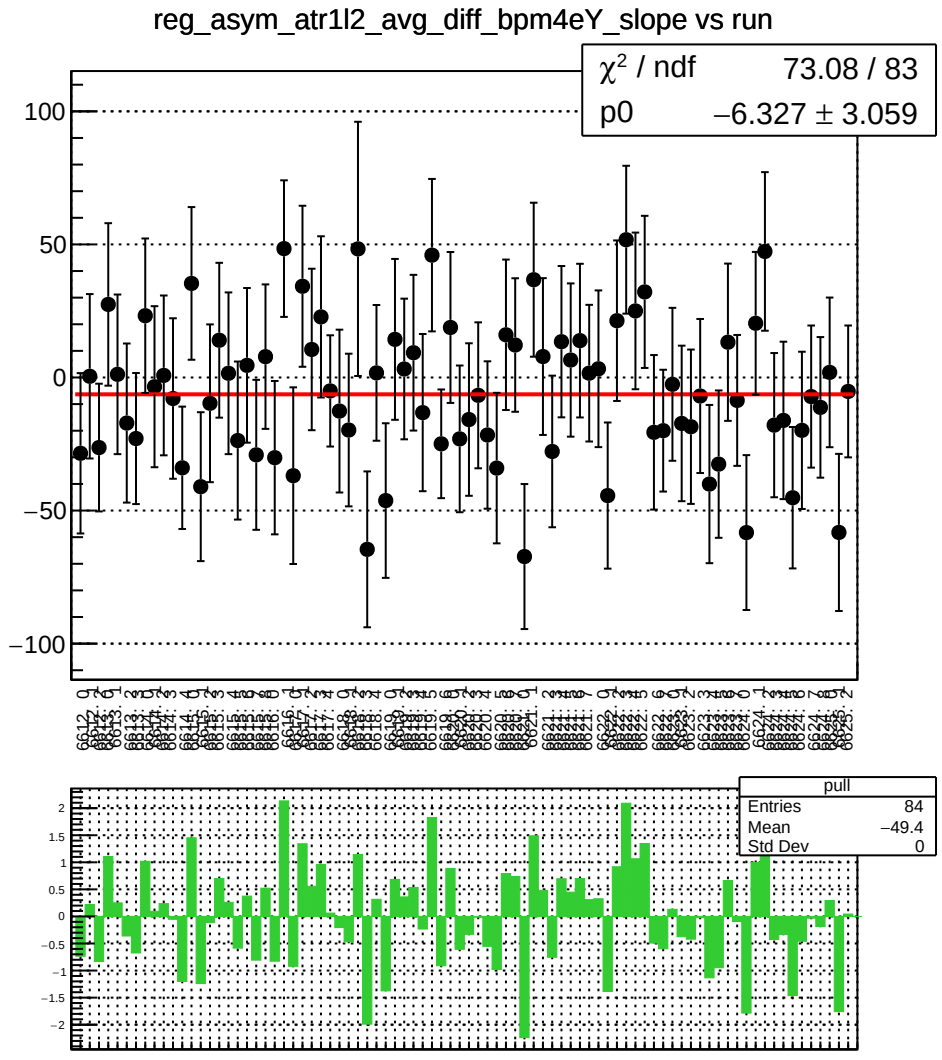

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 73.63 / 83
p0 −58.81 ± 3.558
pull
Entries 84
Mean −141.7
Std Dev 0

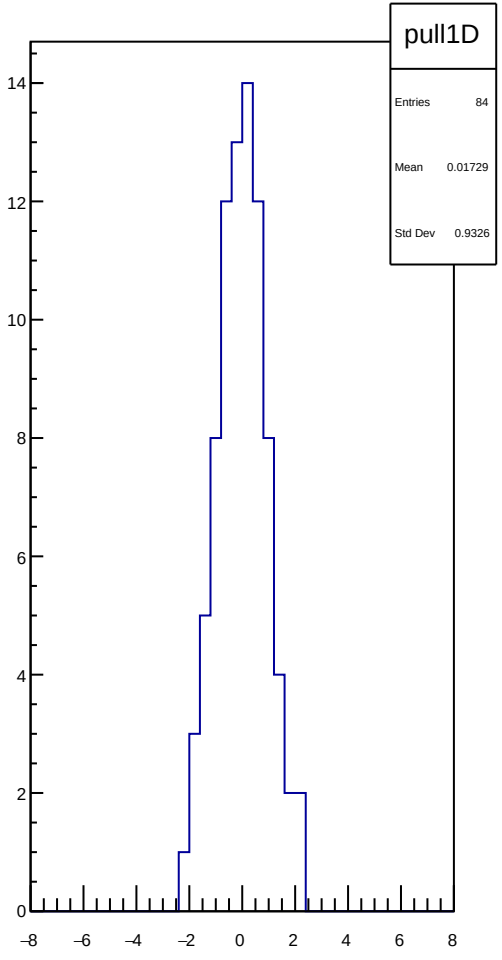

pull1D
Entries 84
Mean −0.01098
Std Dev 0.9362

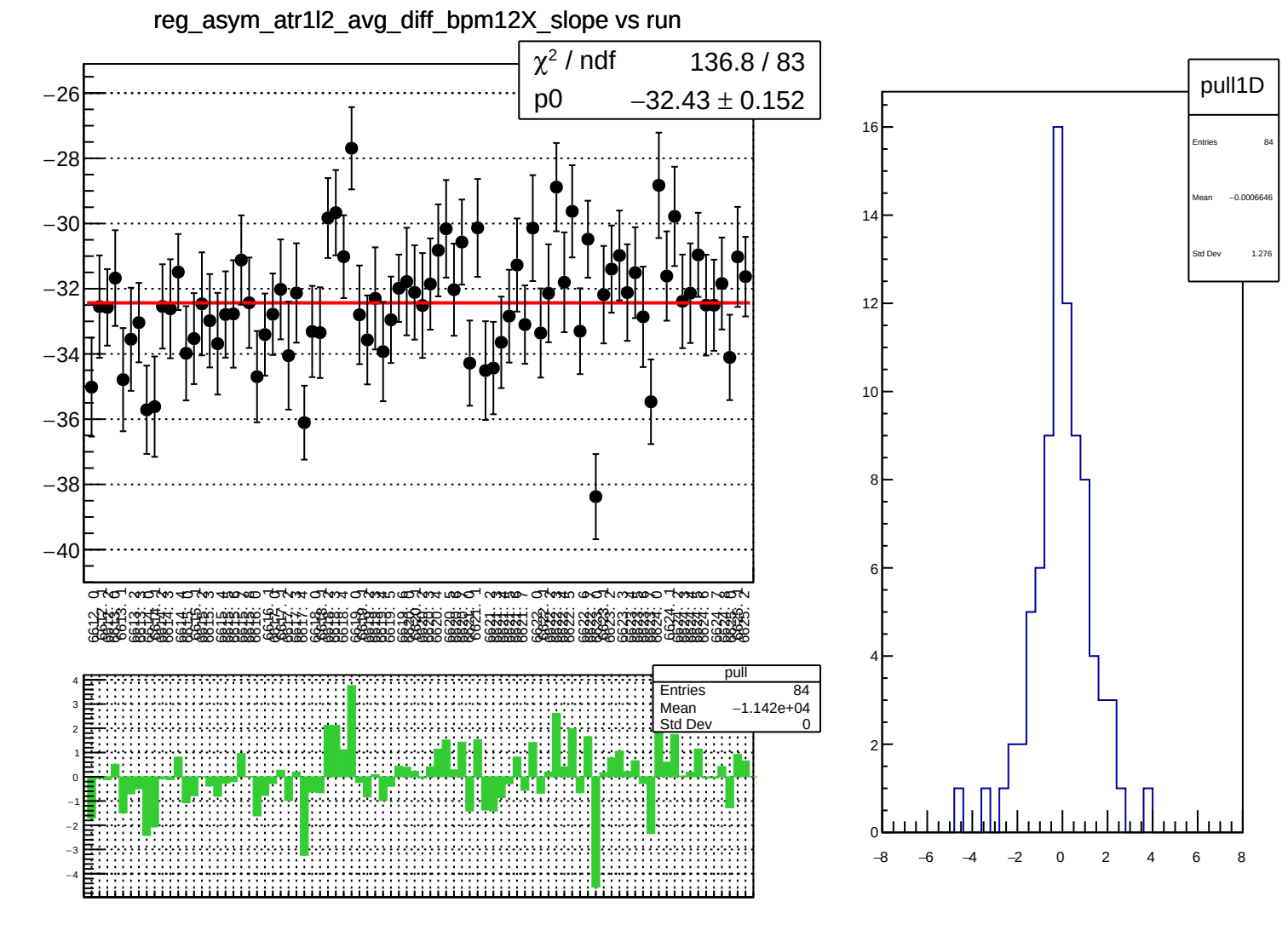

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 67.71 / 83
p0 11.64 ± 2.594
pull
Entries 84
Mean −62.71
Std Dev 0
pull1D
Entries 84
Mean −0.01091
Std Dev 0.8977

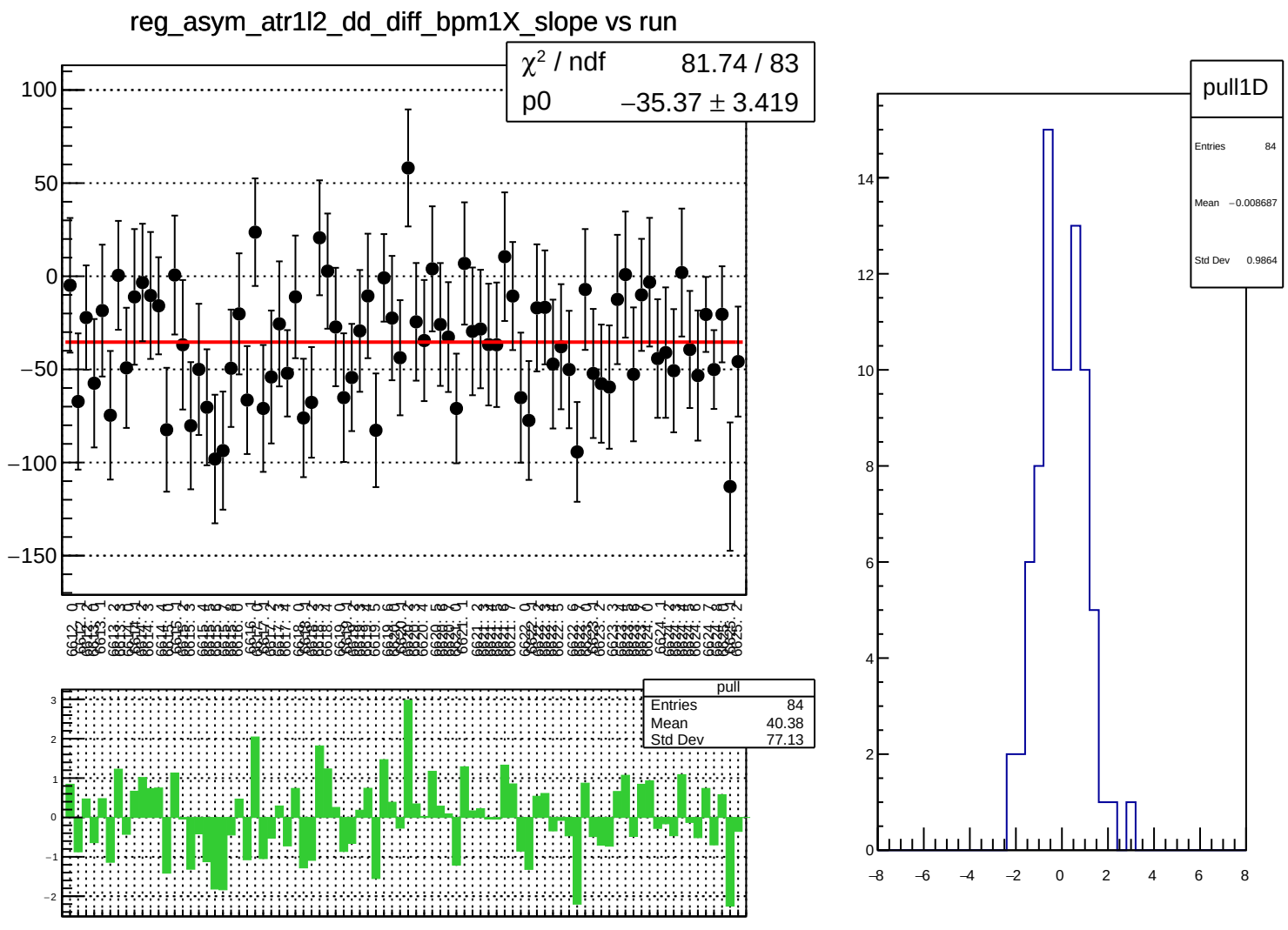

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 76.99 / 83
p0 −6.975 ± 3.66
100
50
0
−50
−100
pull
Entries 84
Mean −128.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

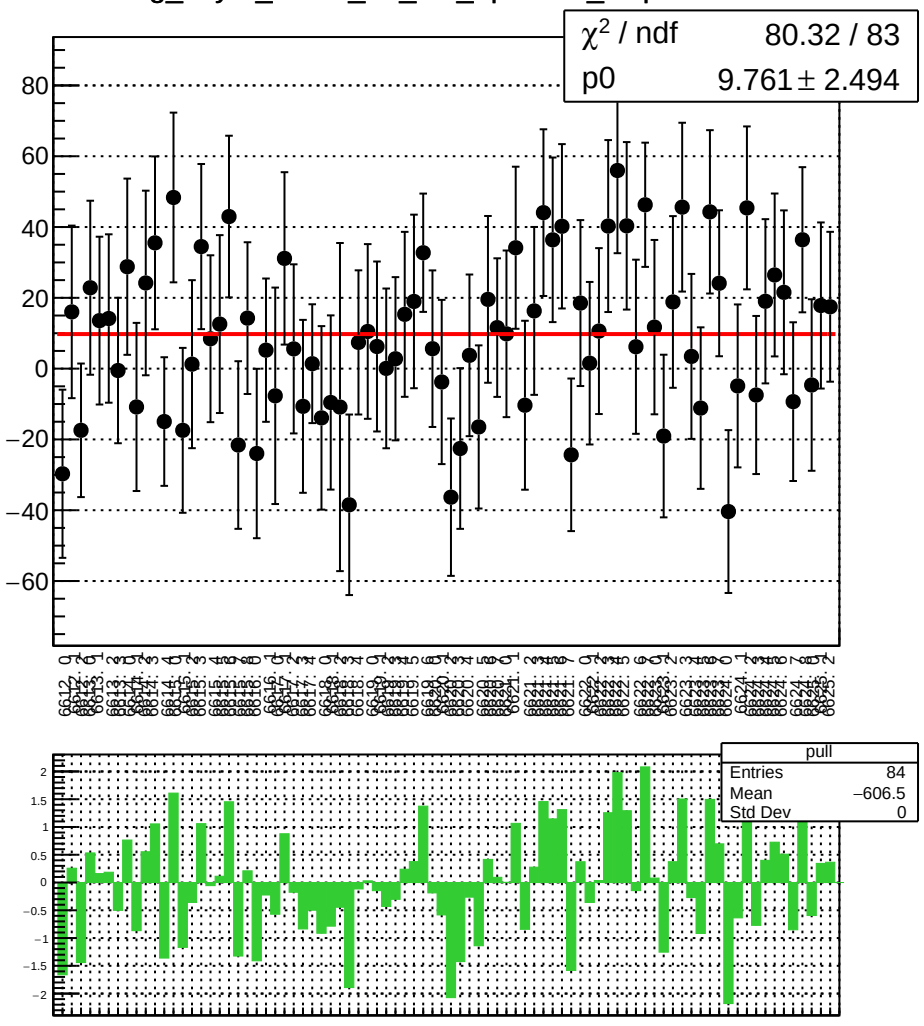

pull1D
Entries 84
Mean 0.01089
Std Dev 0.9573
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

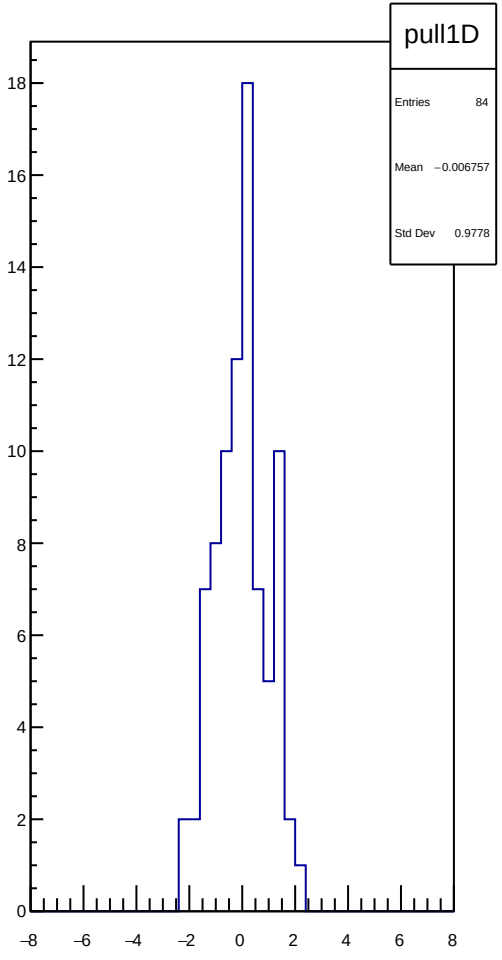

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 73.08 / 83
p0 −6.327 ± 3.059
100
50
0
−50
−100
pull
Entries 84
Mean −49.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

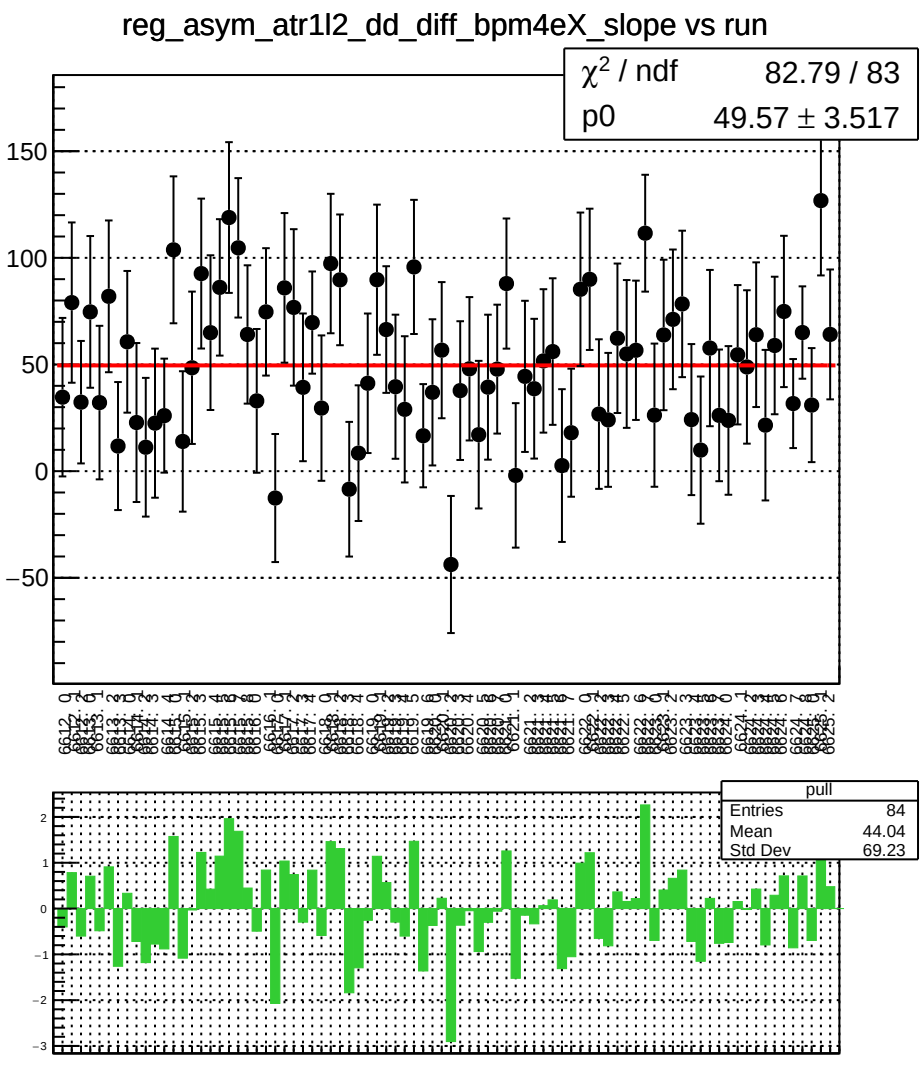

pull1D
Entries 84
Mean 0.01729
Std Dev 0.9326
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

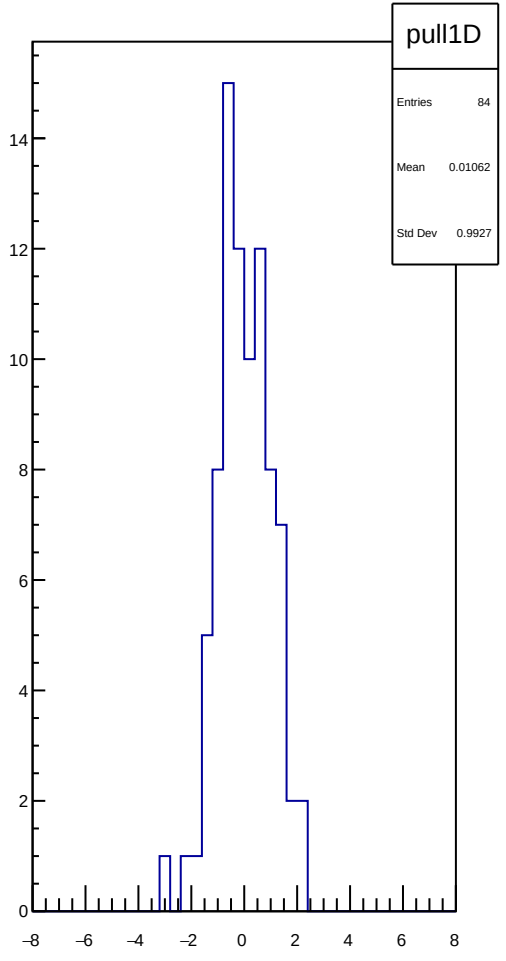

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 136.8 / 83
p0 −32.43 ± 0.152
pull
Entries 84
Mean −1.142e+04
Std Dev 0
pull1D
Entries 84
Mean −0.0006646
Std Dev 1.276

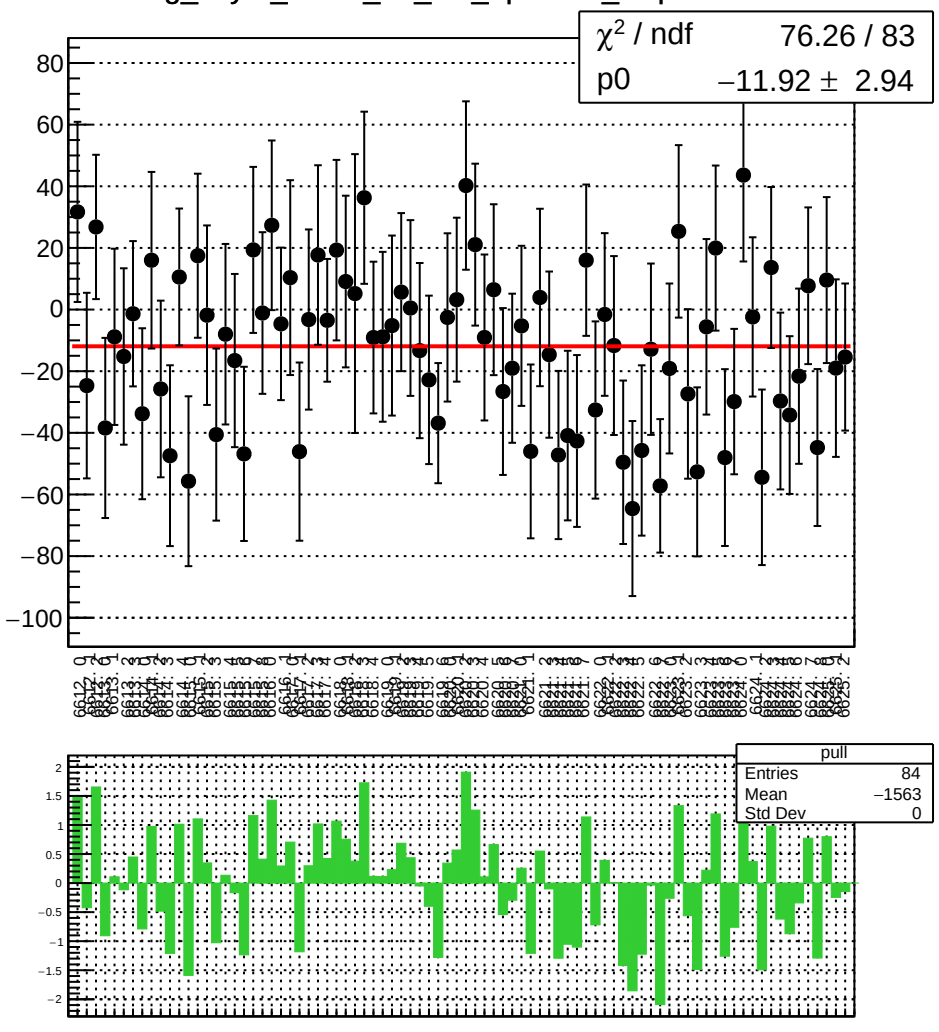

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 81.74 / 83
p0 −35.37 ± 3.419
pull
Entries 84
Mean 40.38
Std Dev 77.13
pull1D
Entries 84
Mean −0.008687
Std Dev 0.9864

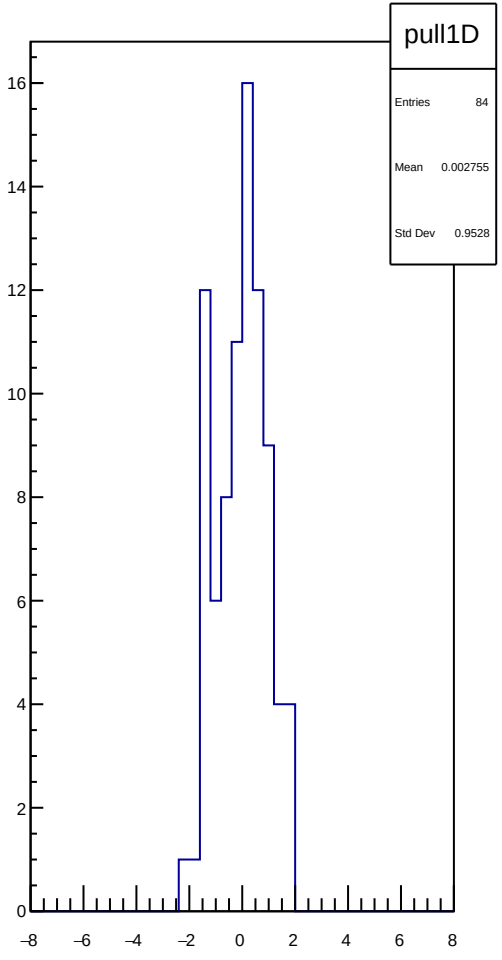

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.32 / 83
p0 9.761 ± 2.494
pull
Entries 84
Mean −606.5
Std Dev 0

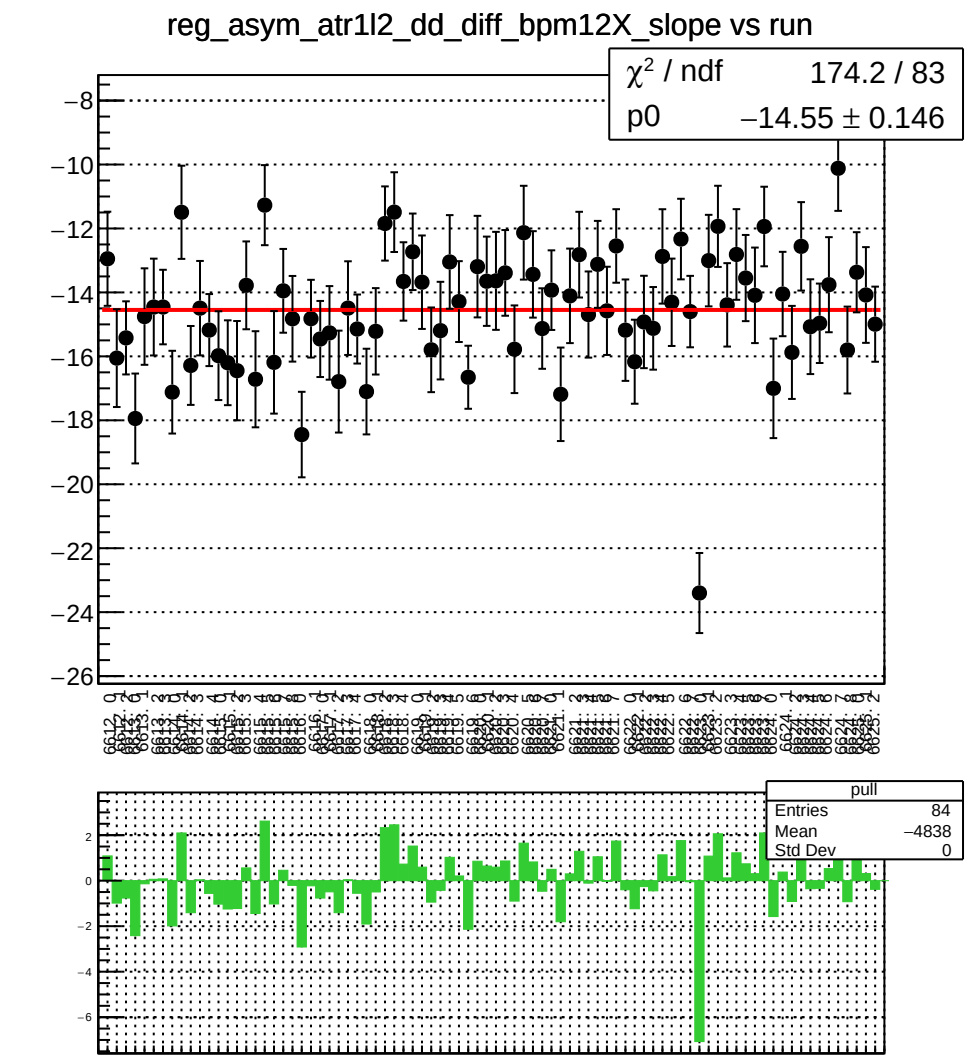

pull1D
Entries 84
Mean −0.006757
Std Dev 0.9778

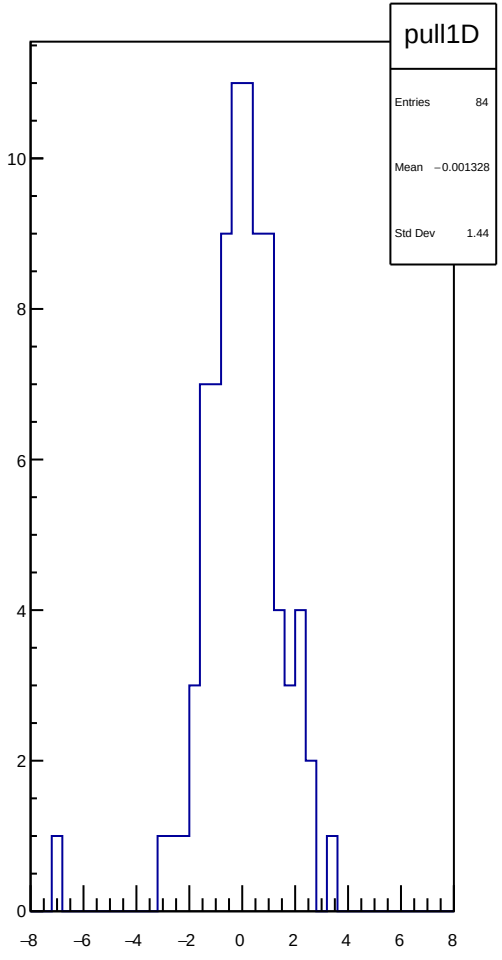

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 82.79 / 83
p0 49.57 ± 3.517
150
100
50
0
−50
pull
Entries 84
Mean 44.04
Std Dev 69.23
2
1
0
−1
−2
−3

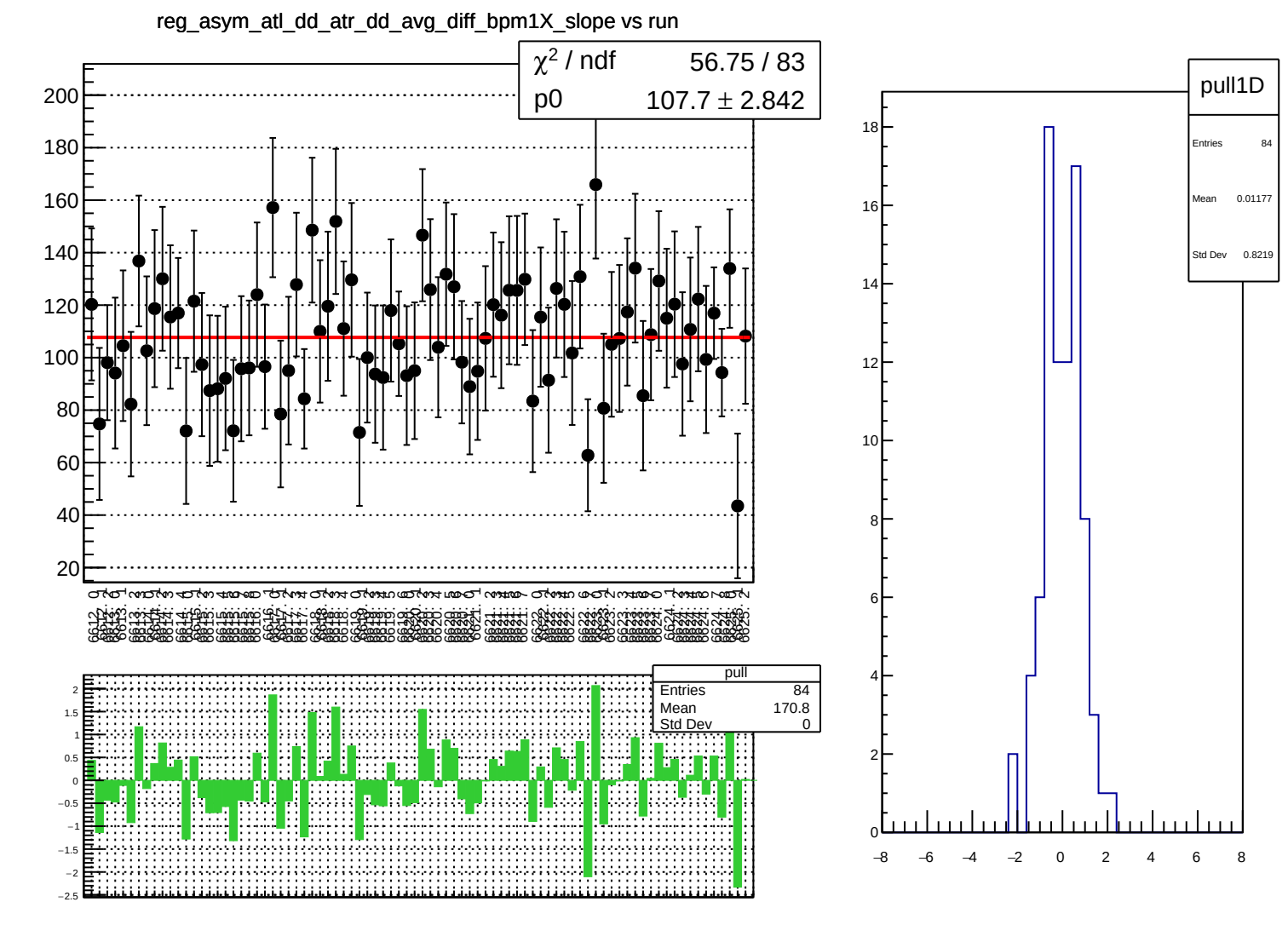

pull1D
Entries 84
Mean 0.01062
Std Dev 0.9927
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

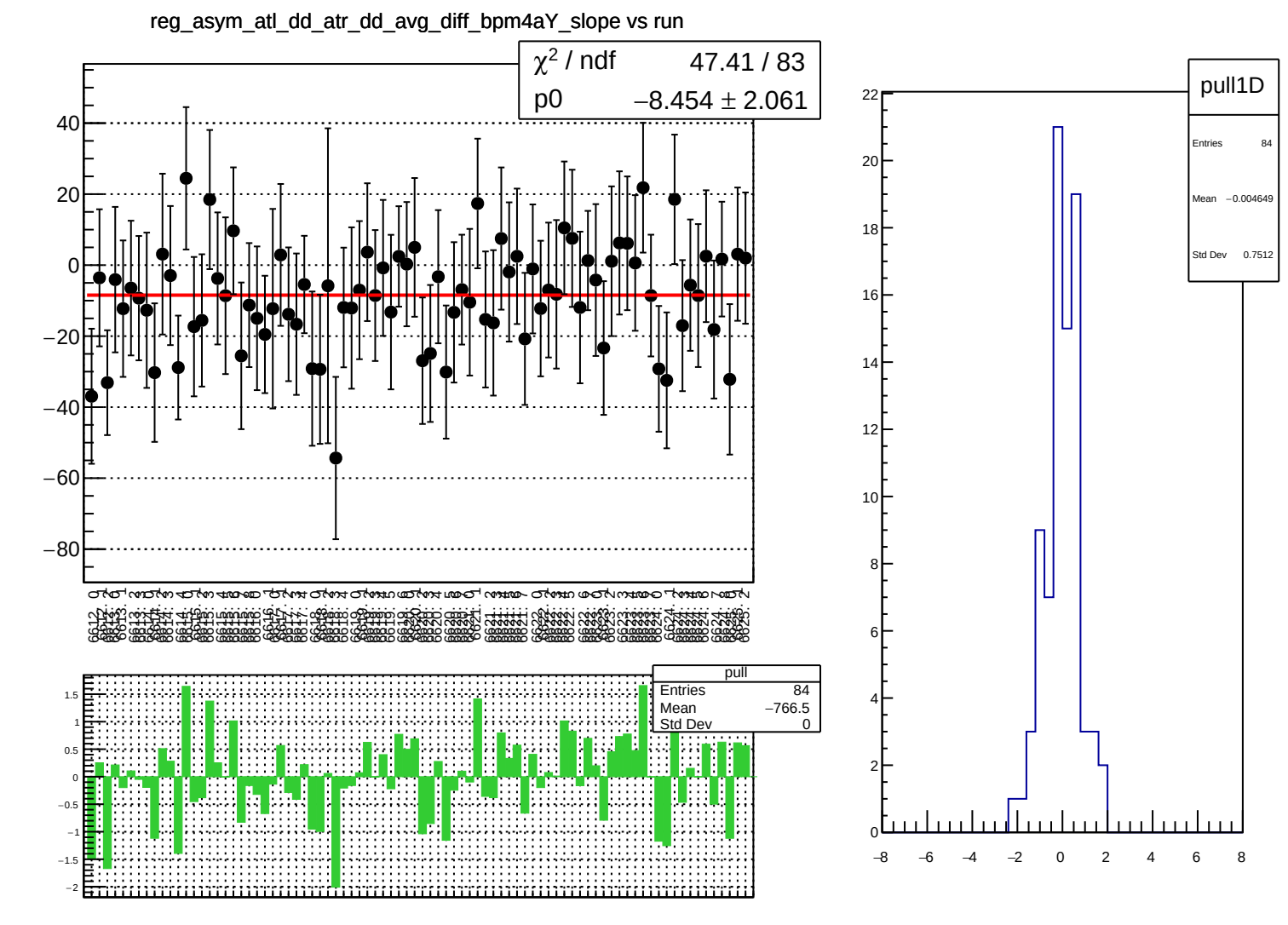

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.26 / 83
p0 −11.92 ± 2.94
pull
Entries 84
Mean −1563
Std Dev 0

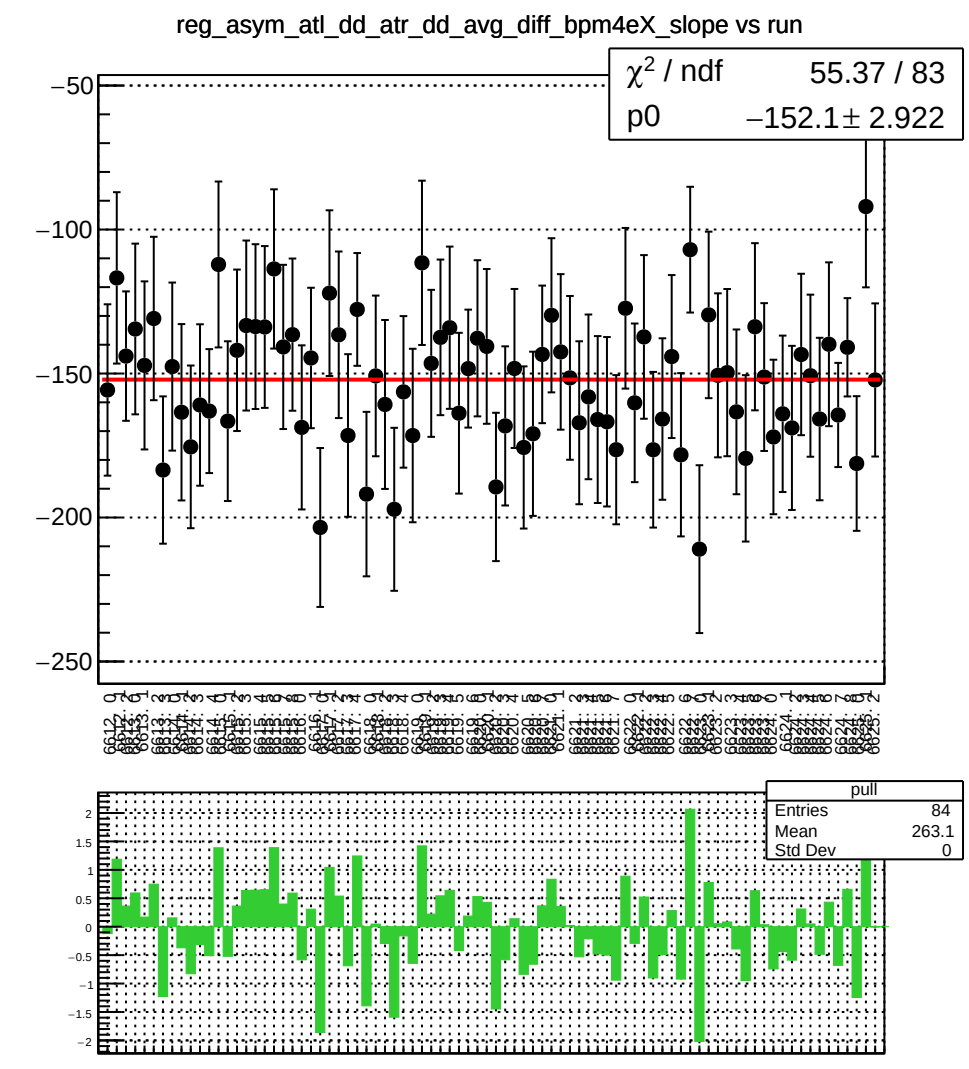

pull1D
Entries 84
Mean 0.002755
Std Dev 0.9528

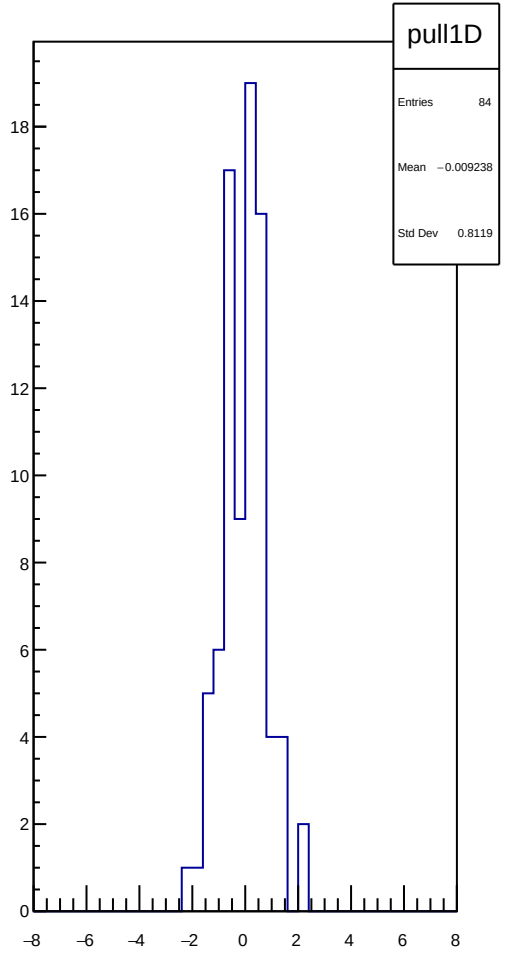

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 174.2 / 83
p0 −14.55 ± 0.146
pull
Entries 84
Mean −4838
Std Dev 0

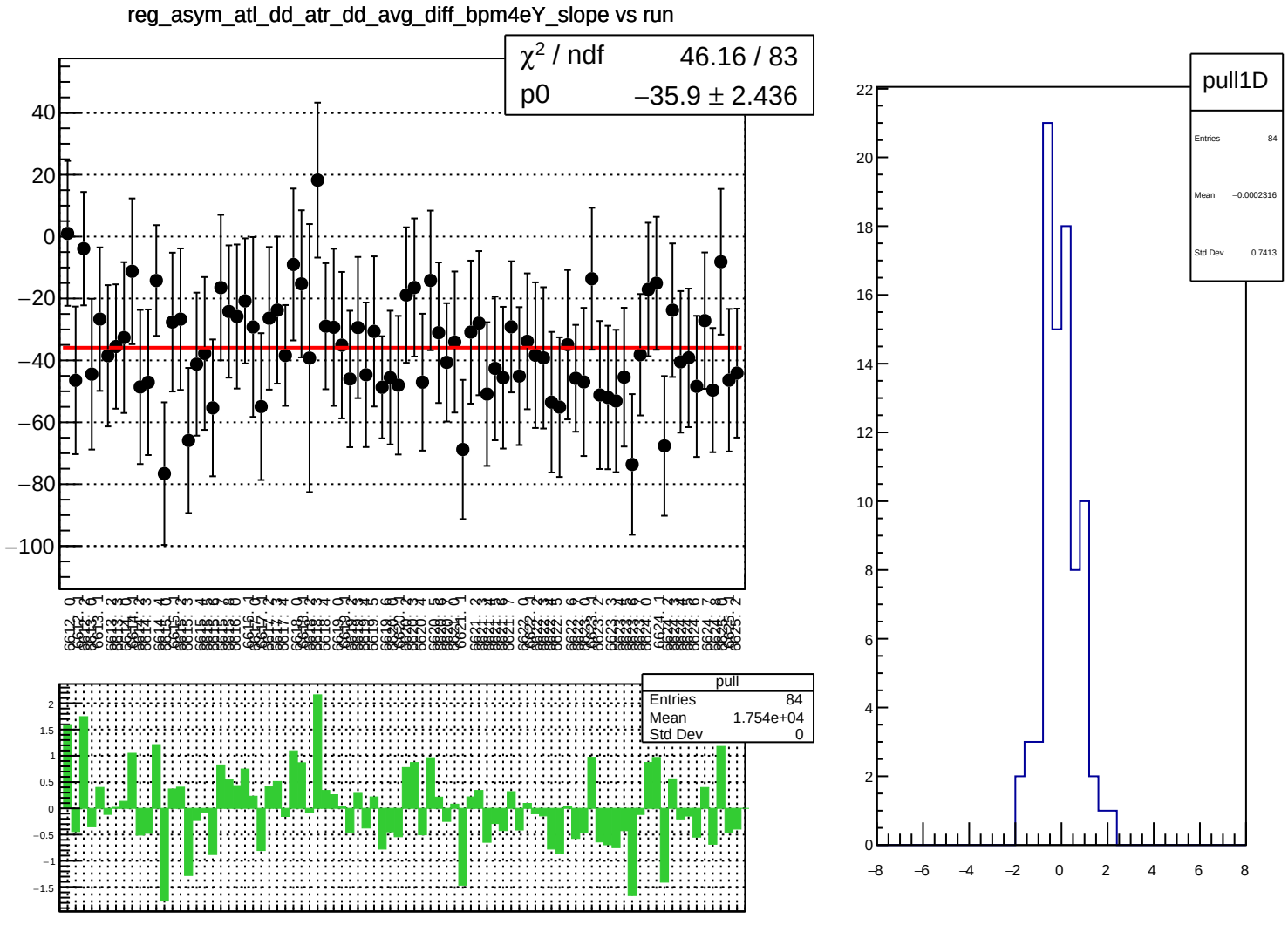

pull1D
Entries 84
Mean −0.001328
Std Dev 1.44

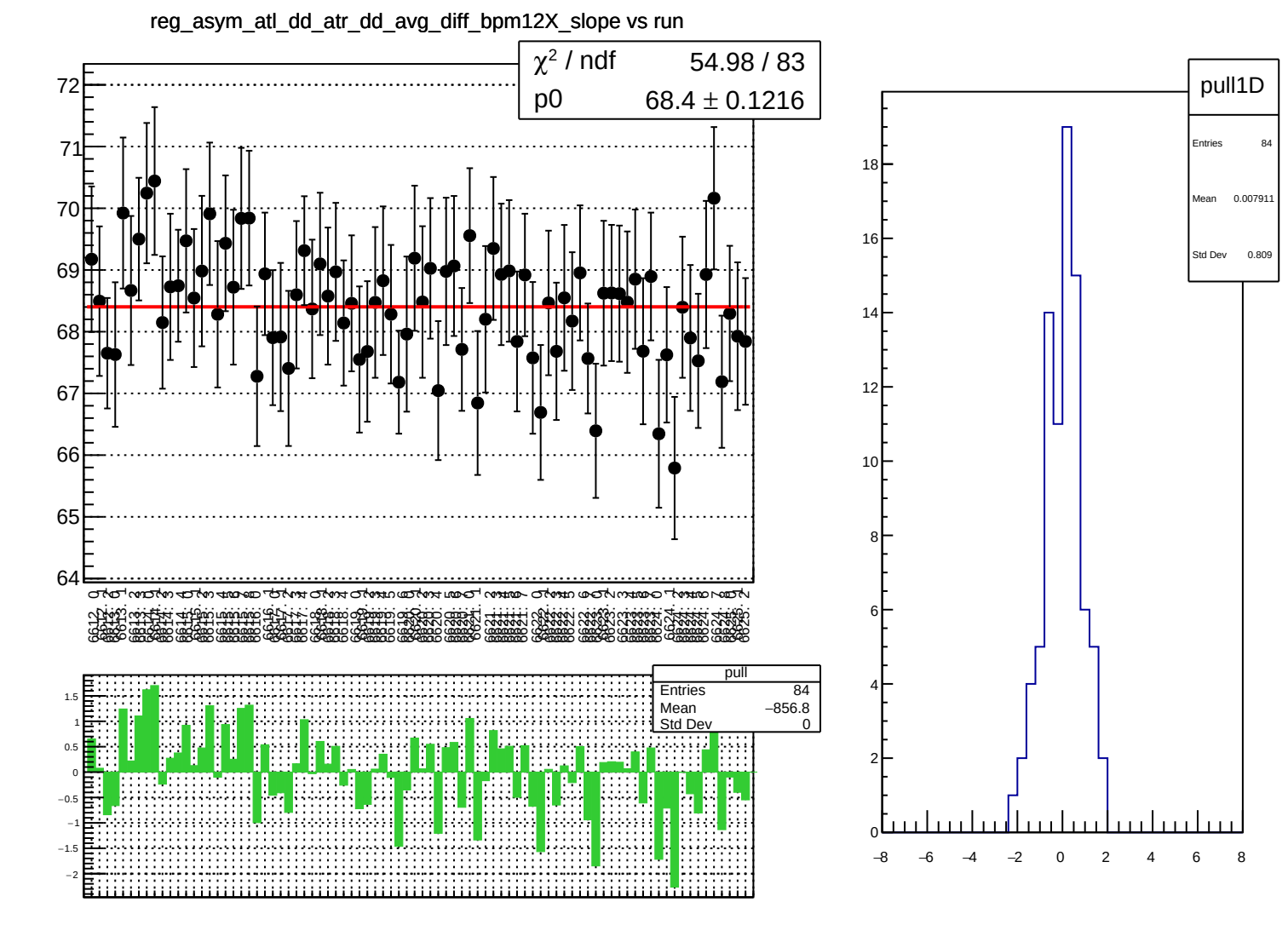

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 56.75 / 83
p0 107.7 ± 2.842
pull
Entries 84
Mean 170.8
Std Dev 0
pull1D
Entries 84
Mean 0.01177
Std Dev 0.8219

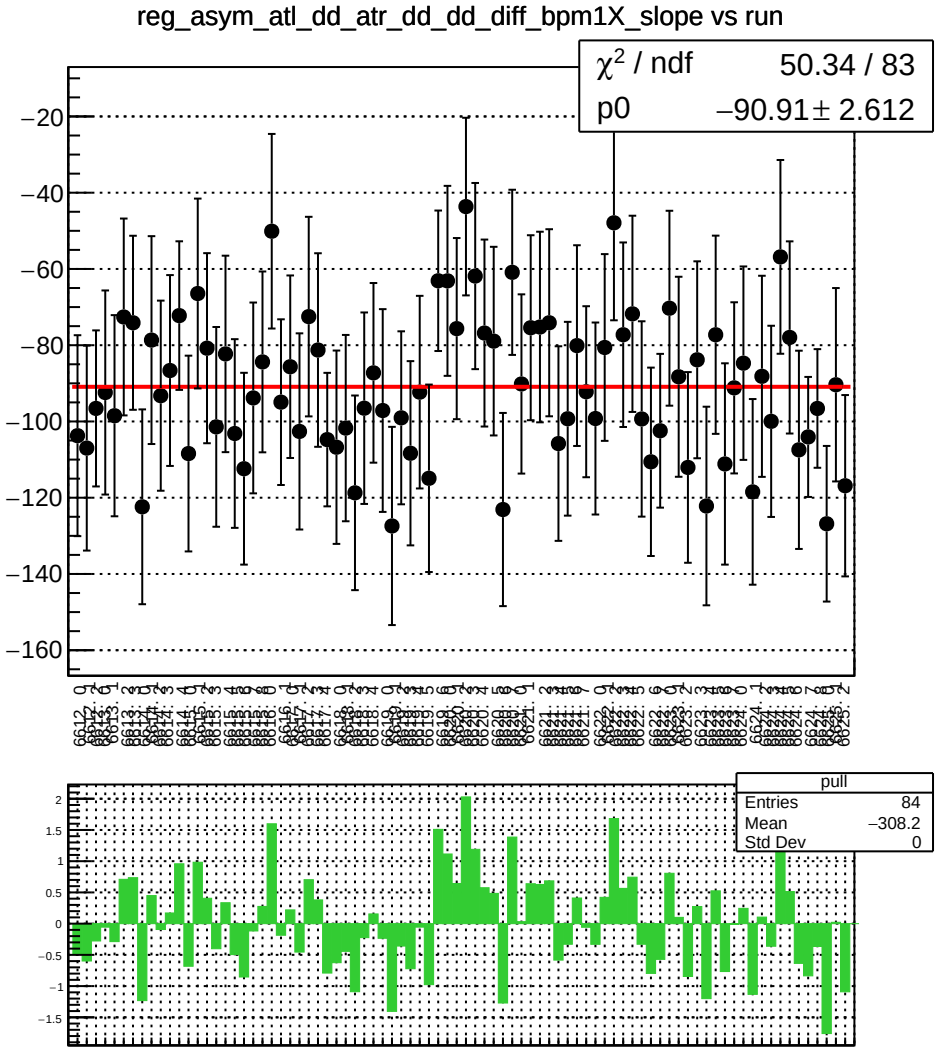

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 47.41 / 83
p0 −8.454 ± 2.061
pull
Entries 84
Mean −766.5
Std Dev 0
pull1D
Entries 84
Mean −0.004649
Std Dev 0.7512

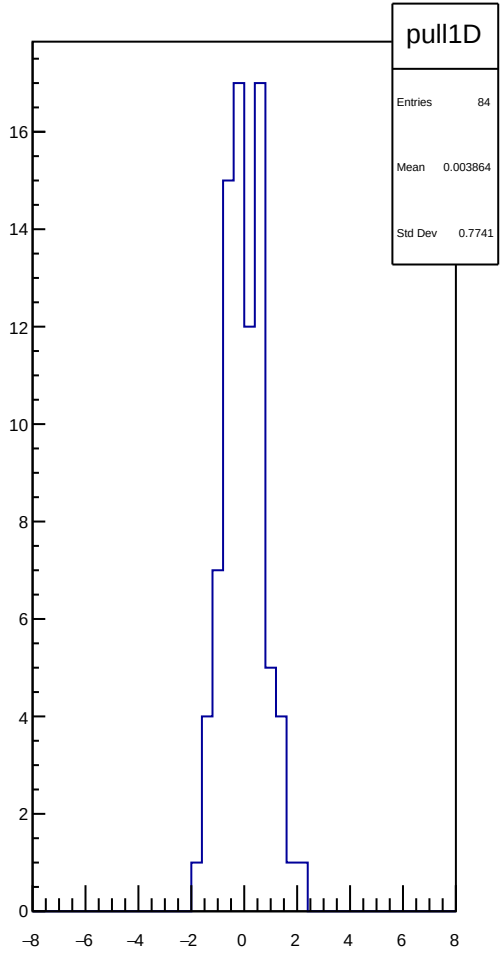

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.37 / 83
p0 −152.1± 2.922
−50
−100
−150
−200
−250
pull
Entries 84
Mean 263.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

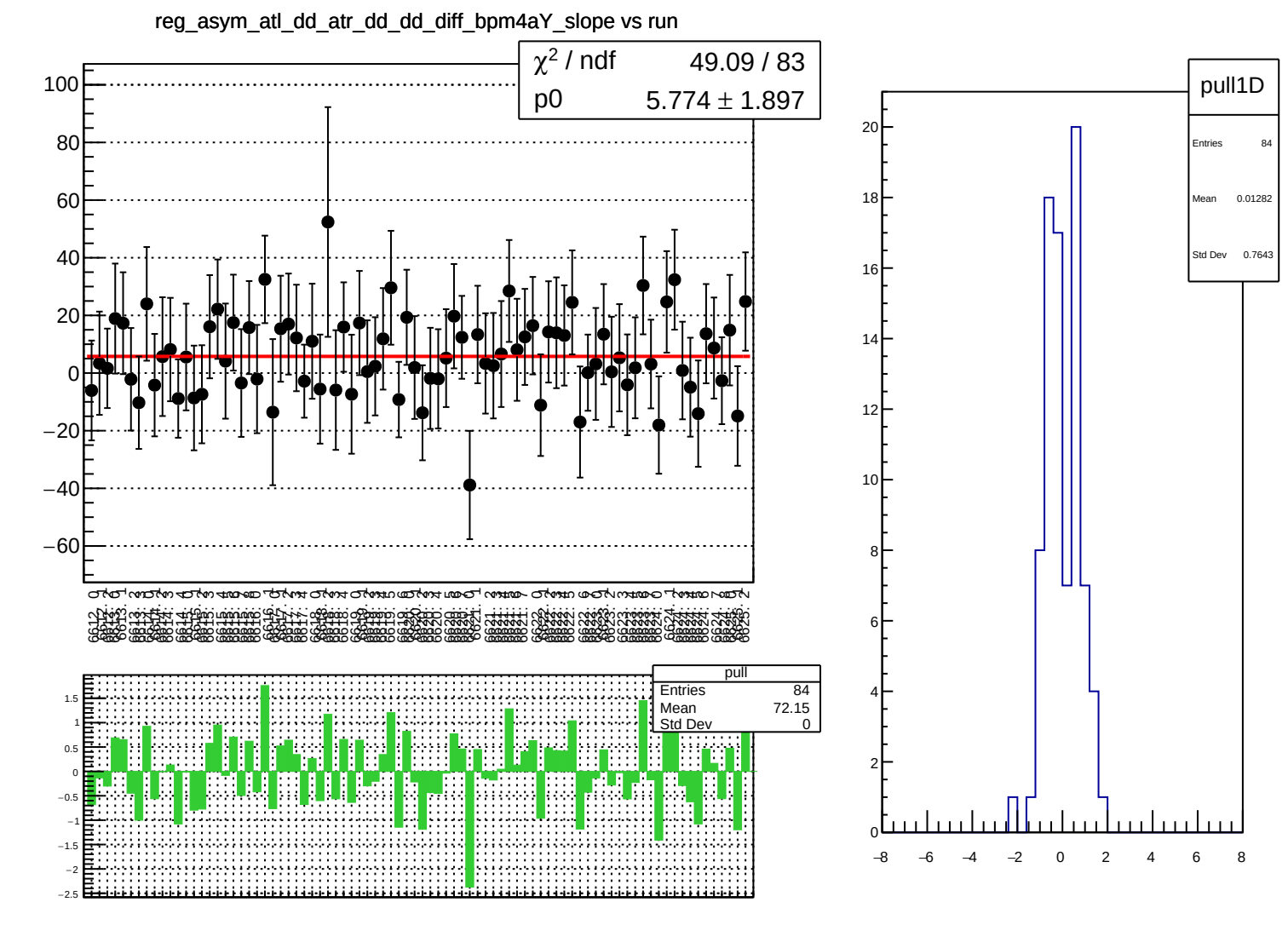

pull1D
Entries 84
Mean −0.009238
Std Dev 0.8119
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

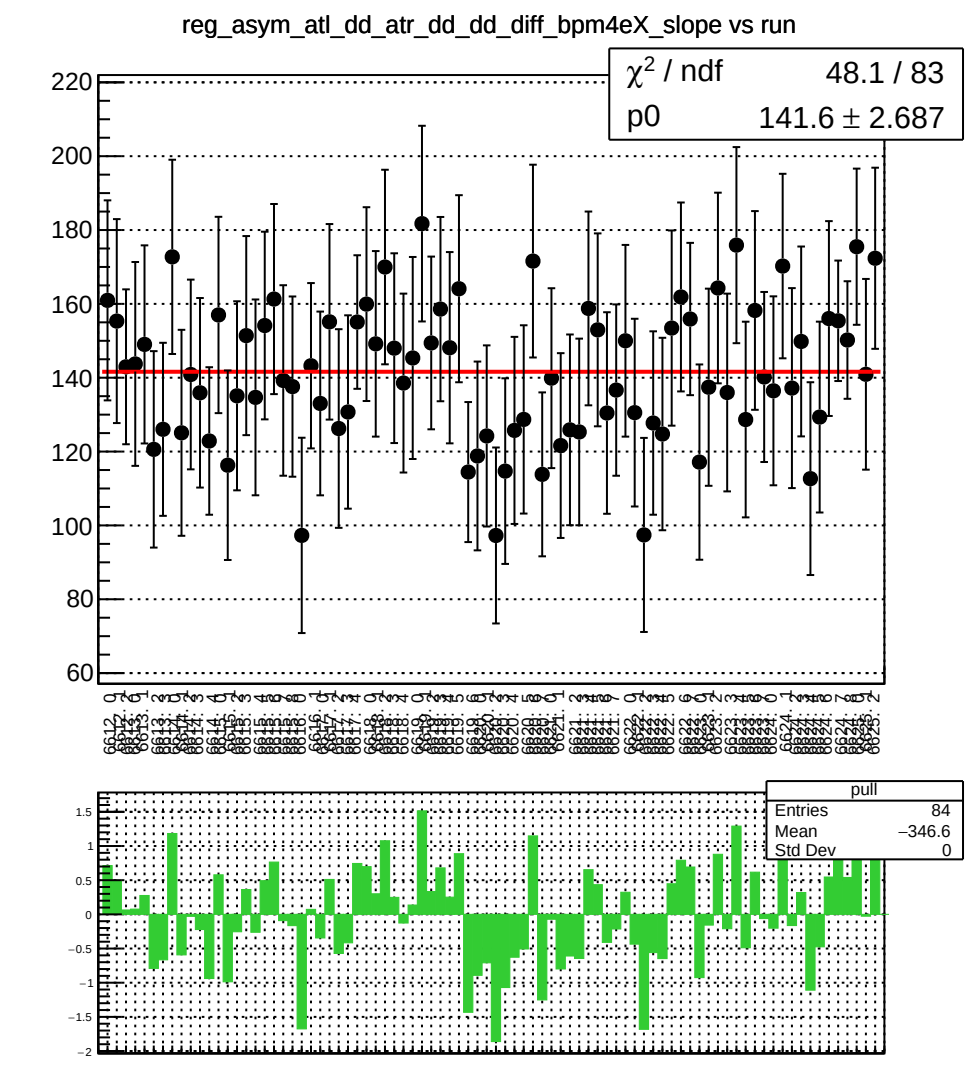

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 46.16 / 83
p0 −35.9 ± 2.436
pull
Entries 84
Mean 1.754e+04
Std Dev 0
pull1D
Entries 84
Mean −0.0002316
Std Dev 0.7413

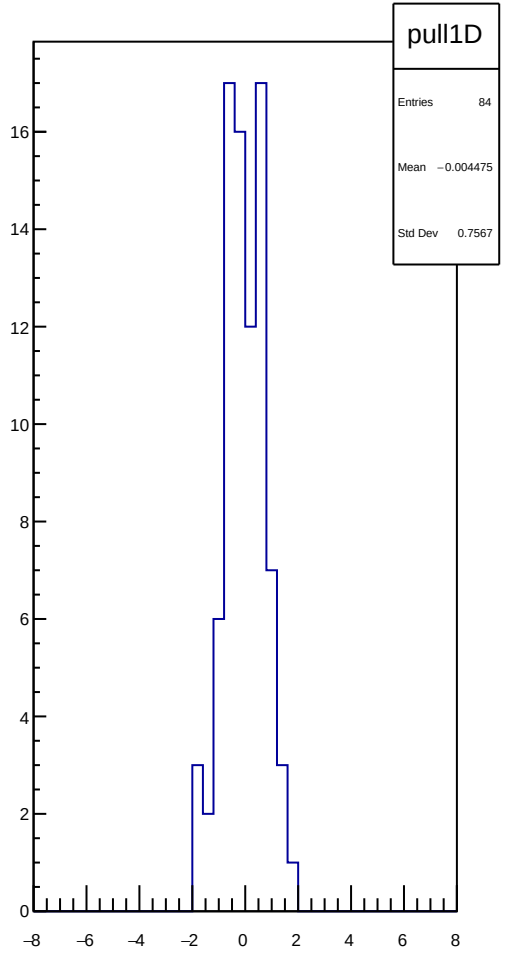

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 54.98 / 83
p0 68.4 ± 0.1216
pull
Entries 84
Mean −856.8
Std Dev 0
pull1D
Entries 84
Mean 0.007911
Std Dev 0.809

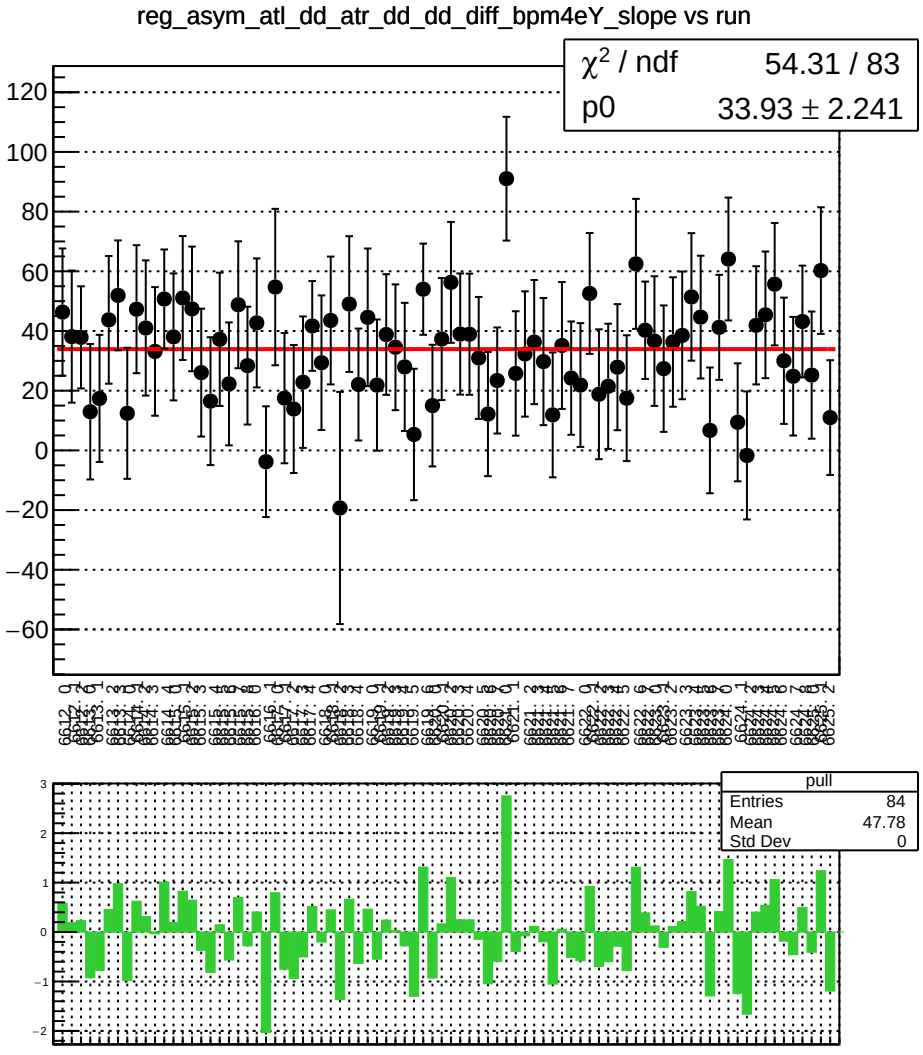

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 50.34 / 83
p0 −90.91 ± 2.612
pull
Entries 84
Mean −308.2
Std Dev 0

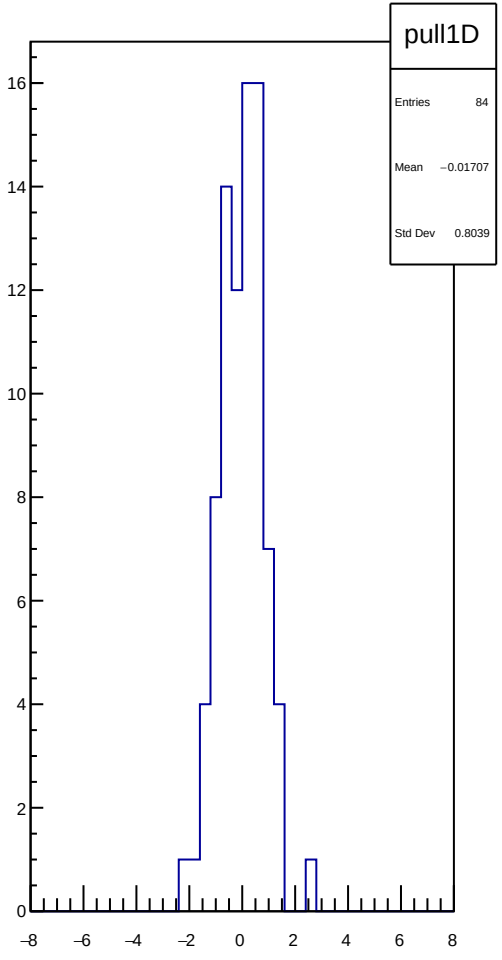

pull1D
Entries 84
Mean 0.003864
Std Dev 0.7741

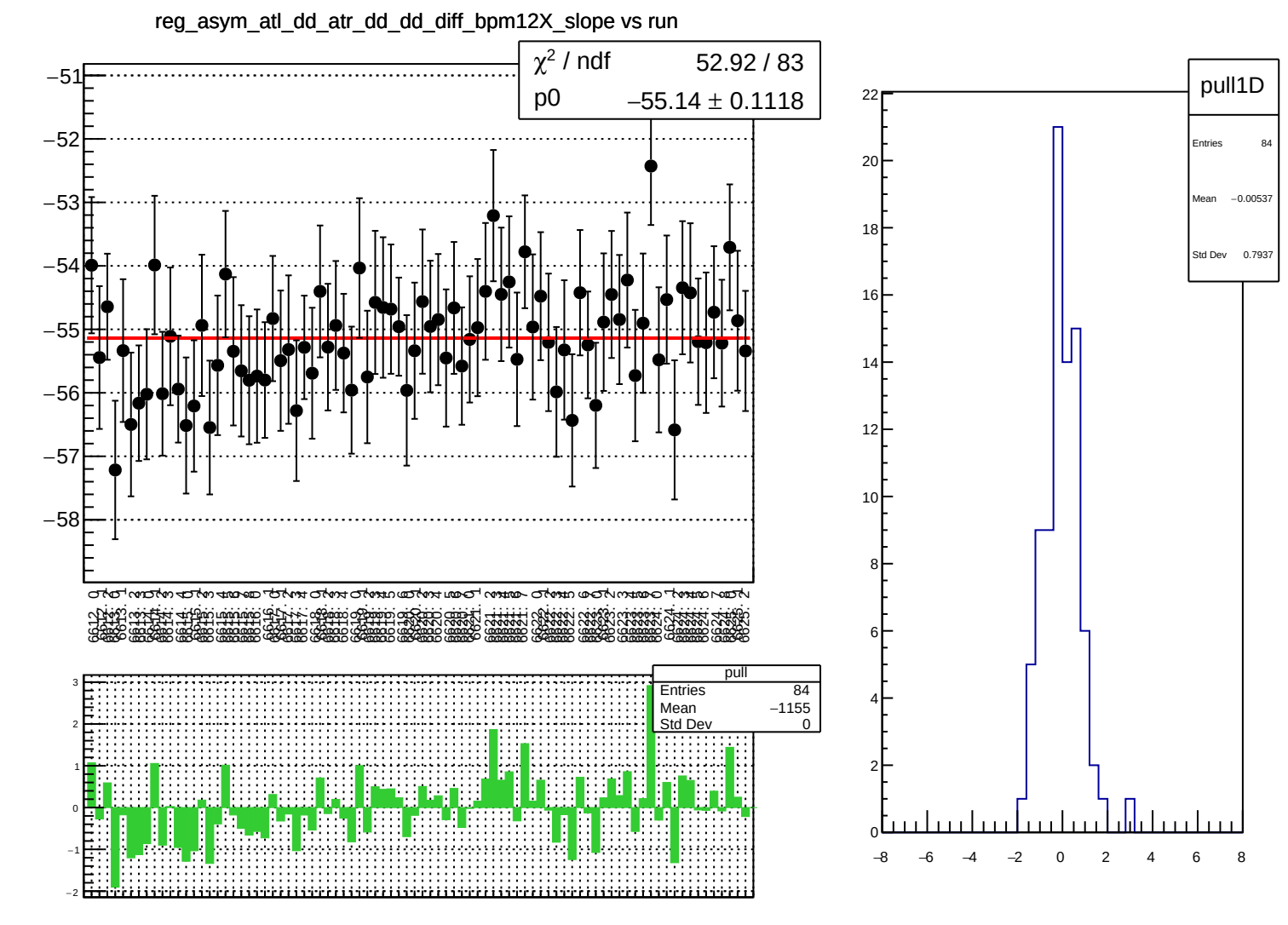

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.09 / 83
p0 5.774 ± 1.897
pull
Entries 84
Mean 72.15
Std Dev 0
pull1D
Entries 84
Mean 0.01282
Std Dev 0.7643

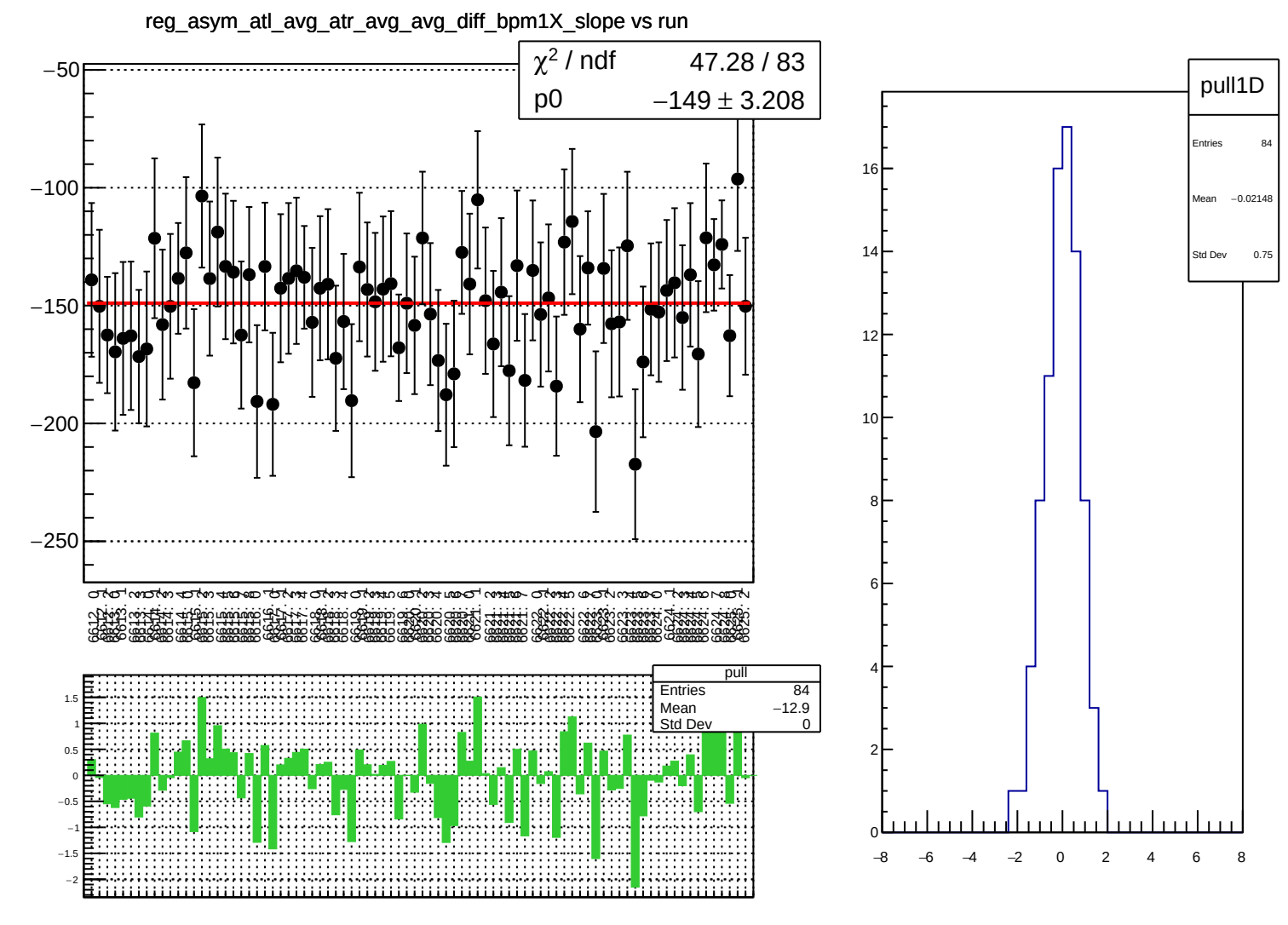

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.1 / 83
p0 141.6 ± 2.687
pull
Entries 84
Mean −346.6
Std Dev 0

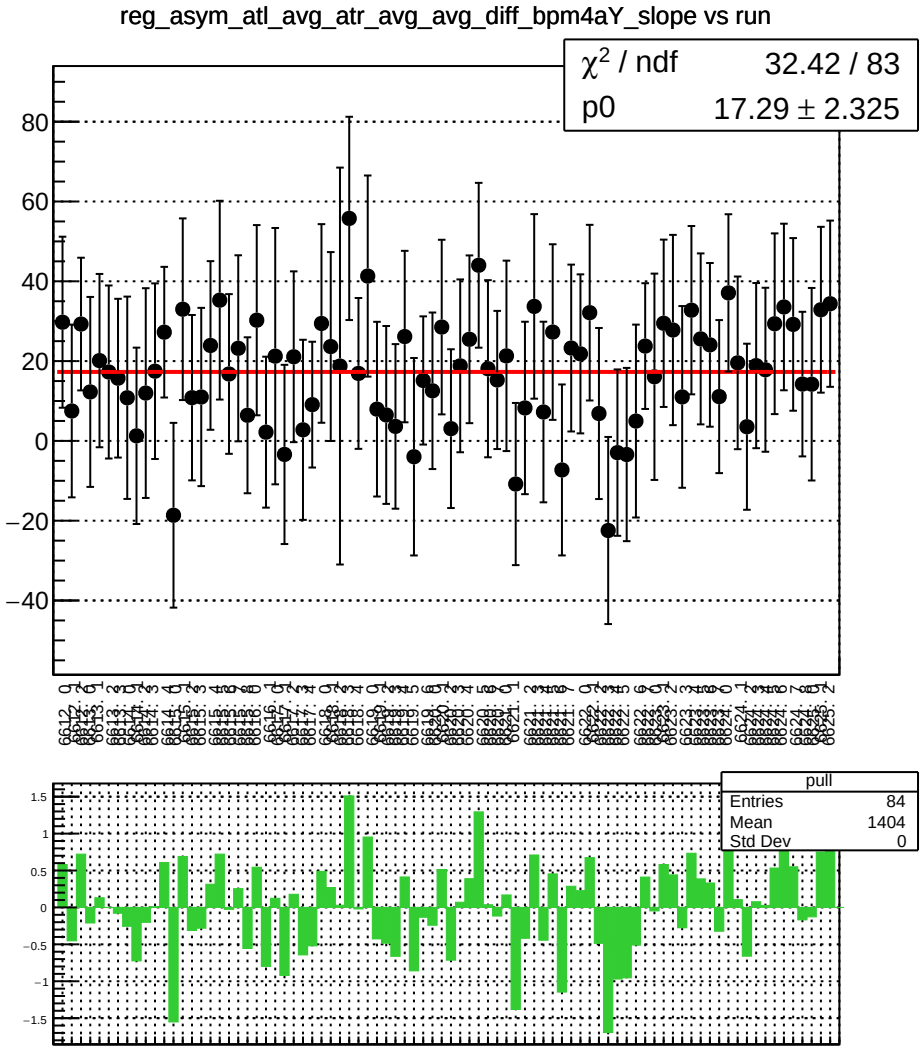

pull1D
Entries 84
Mean −0.004475
Std Dev 0.7567

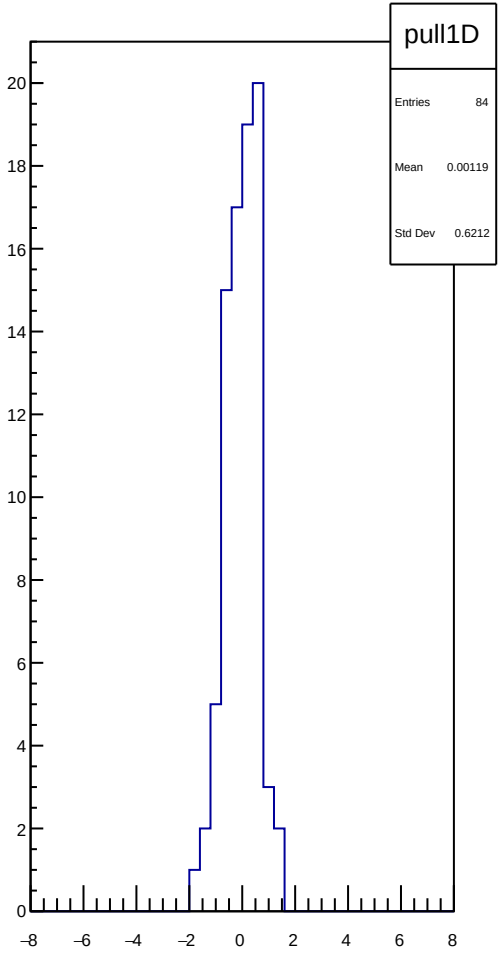

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.31 / 83
p0 33.93 ± 2.241
pull
Entries 84
Mean 47.78
Std Dev 0

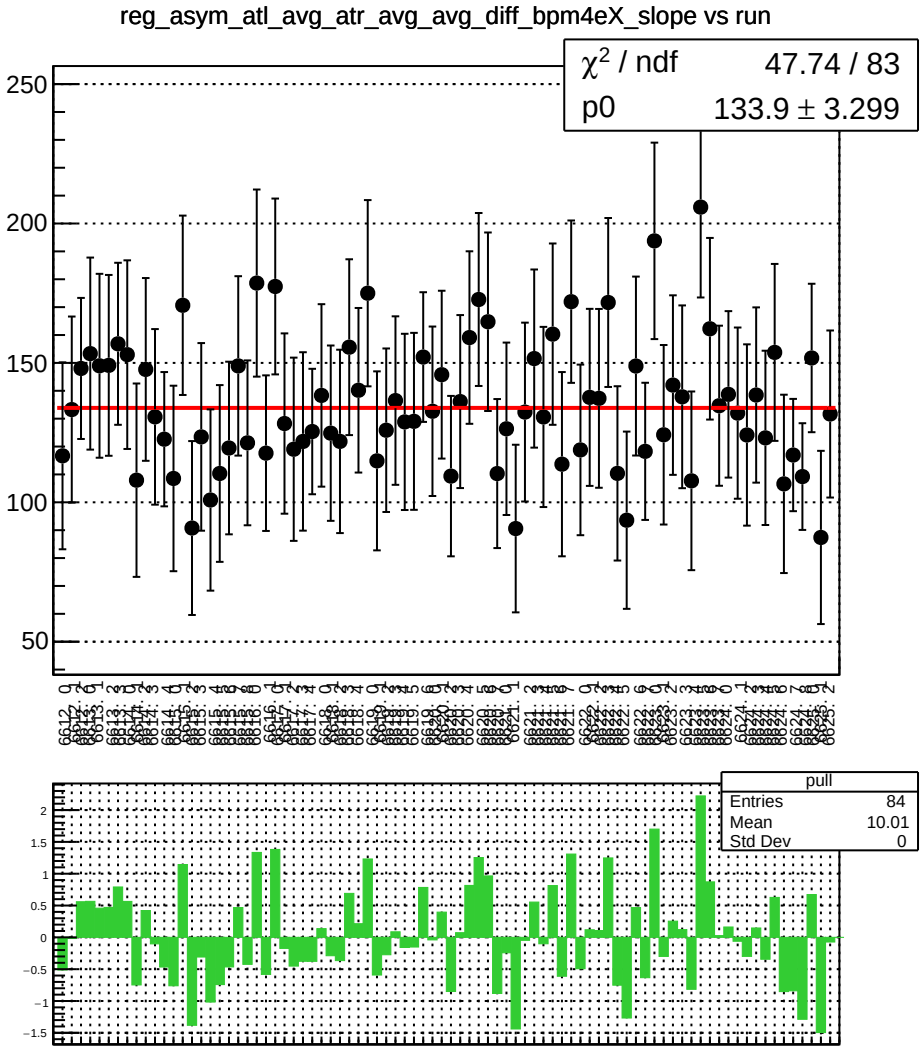

pull1D
Entries 84
Mean −0.01707
Std Dev 0.8039

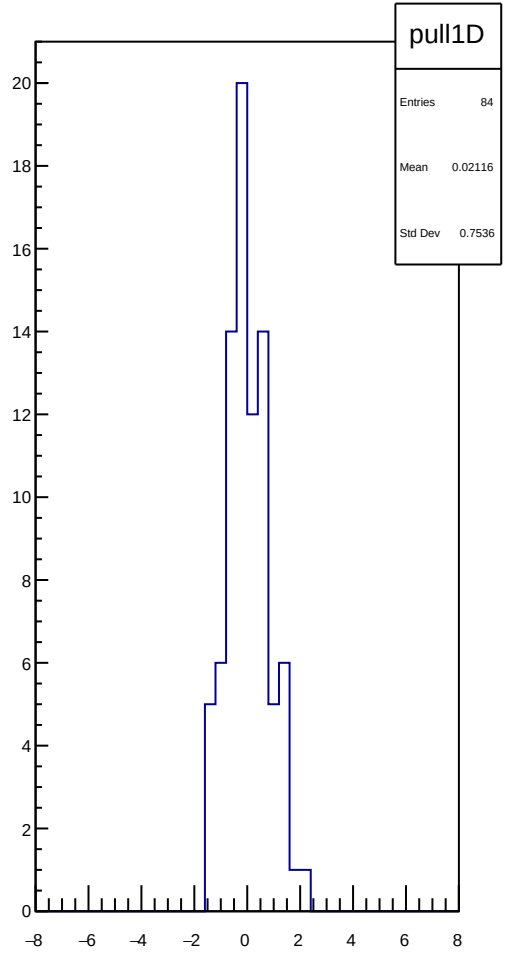

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 52.92 / 83
p0 −55.14 ± 0.1118
pull
Entries 84
Mean −1155
Std Dev 0
pull1D
Entries 84
Mean −0.00537
Std Dev 0.7937

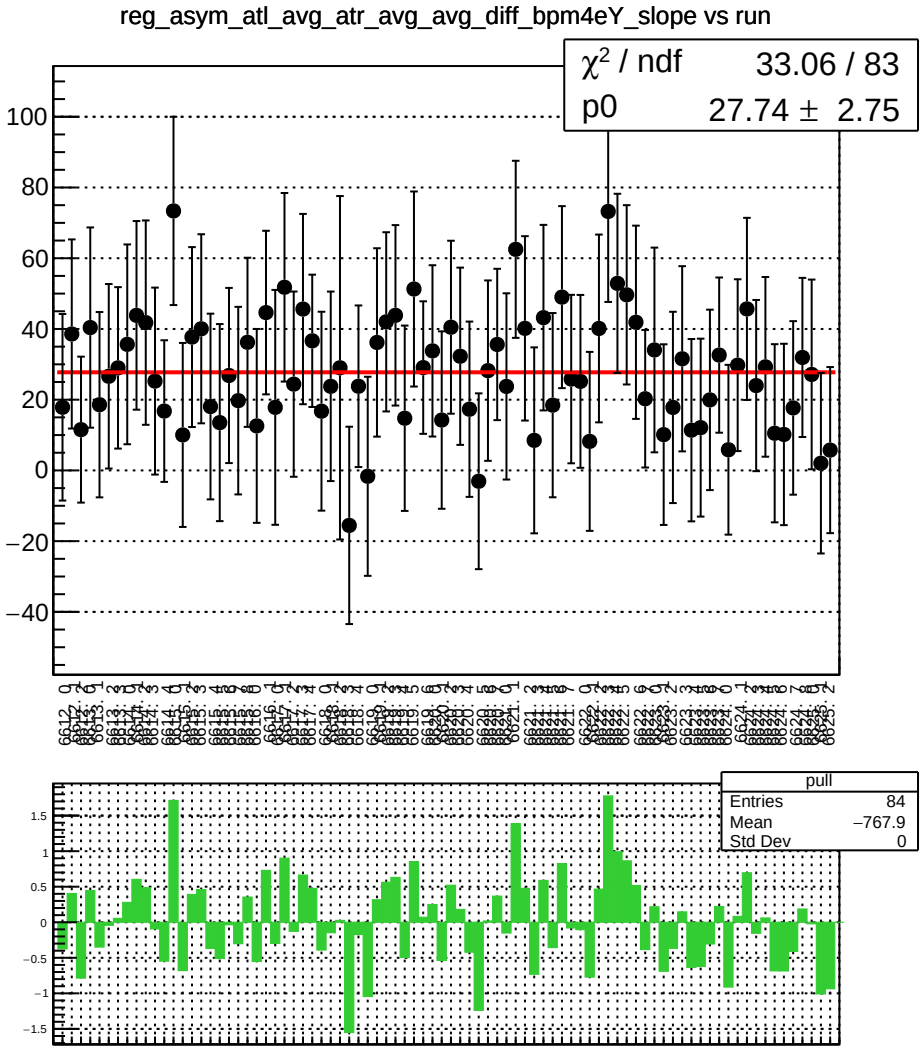

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 47.28 / 83
p0 −149 ± 3.208
−50
−100
−150
−200
−250
pull
Entries 84
Mean −12.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.02148
Std Dev 0.75
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

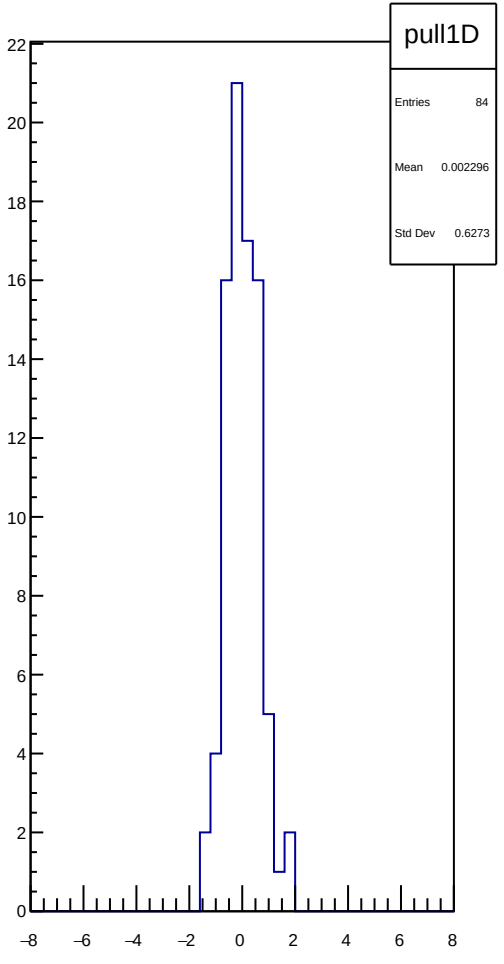

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.42 / 83
p0 17.29 ± 2.325
pull
Entries 84
Mean 1404
Std Dev 0

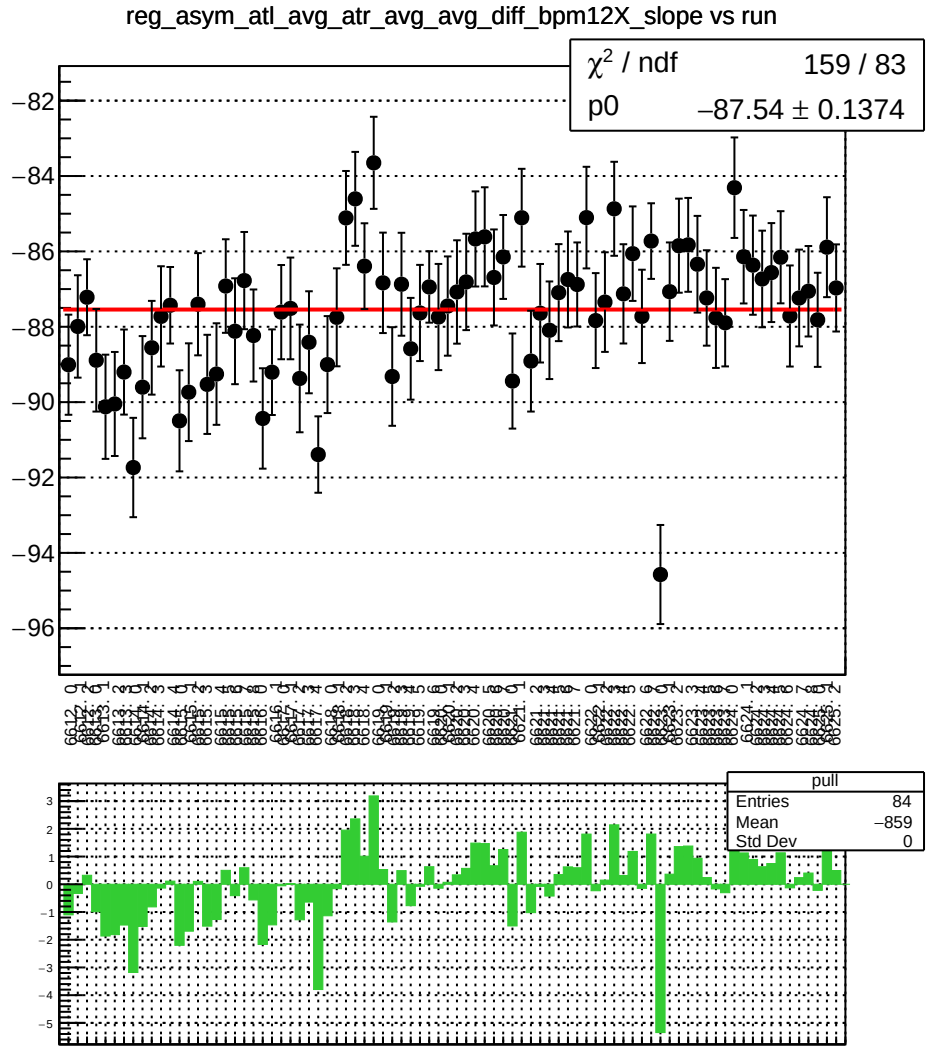

pull1D
Entries 84
Mean 0.00119
Std Dev 0.6212

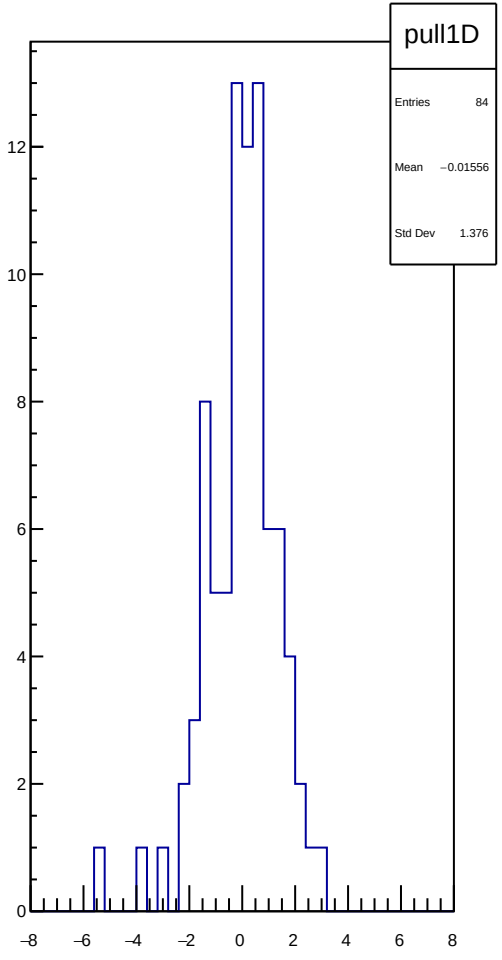

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.74 / 83
p0 133.9 ± 3.299
250
200
150
100
50
pull
Entries 84
Mean 10.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

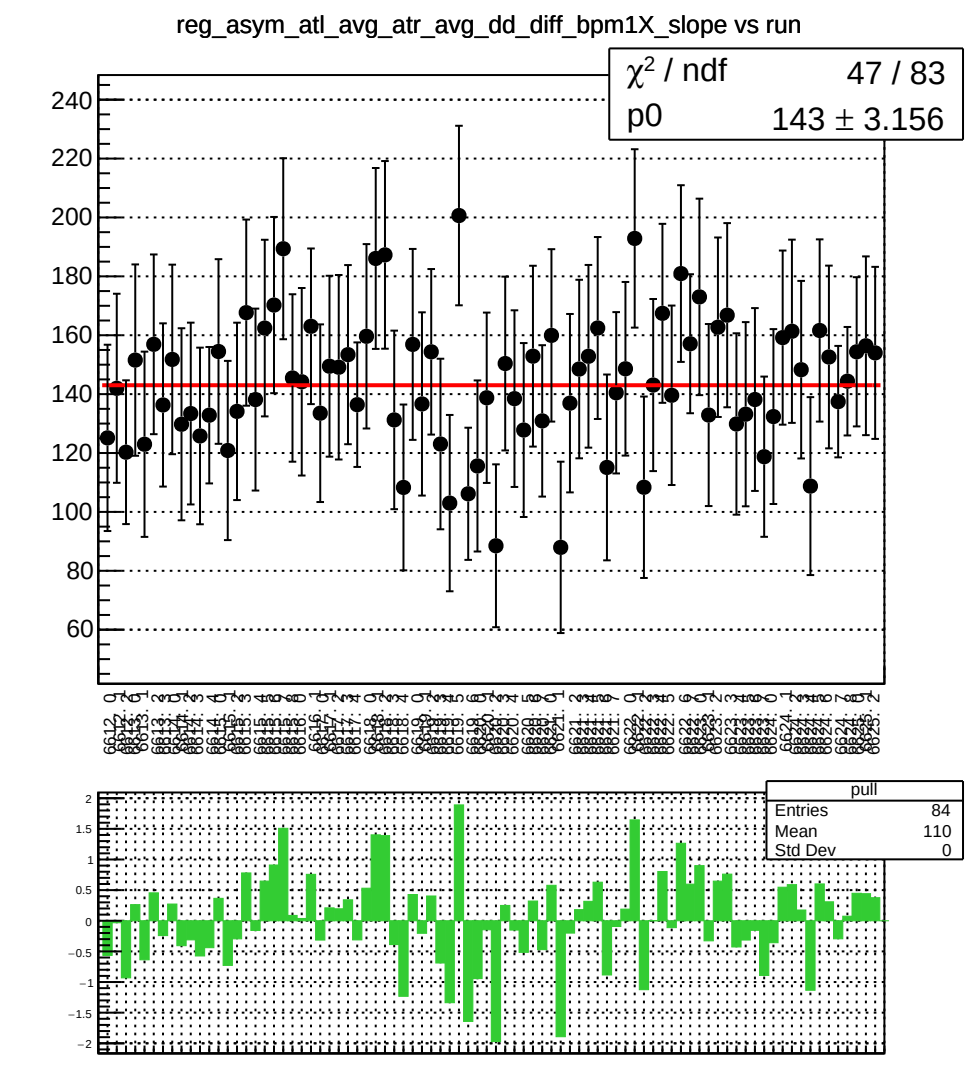

pull1D
Entries 84
Mean 0.02116
Std Dev 0.7536
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

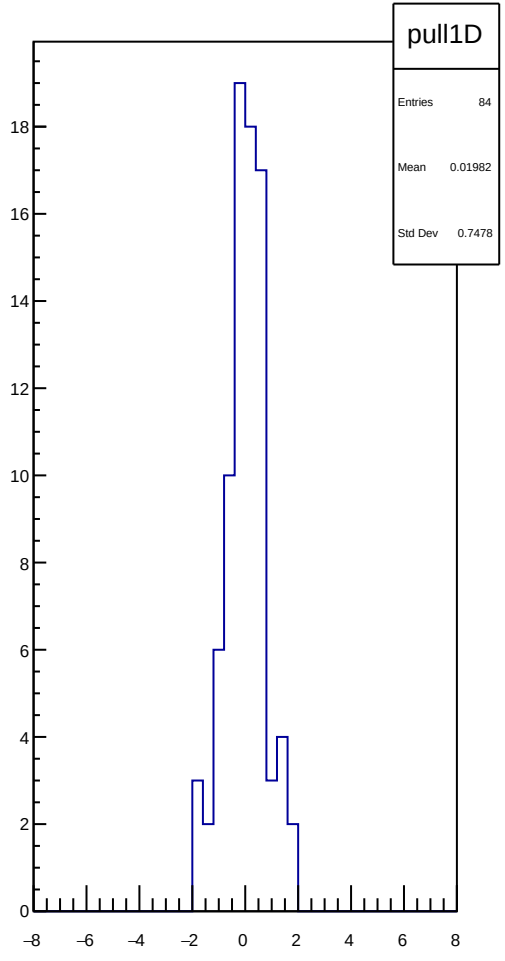

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.06 / 83
p0 27.74 ± 2.75
pull
Entries 84
Mean −767.9
Std Dev 0

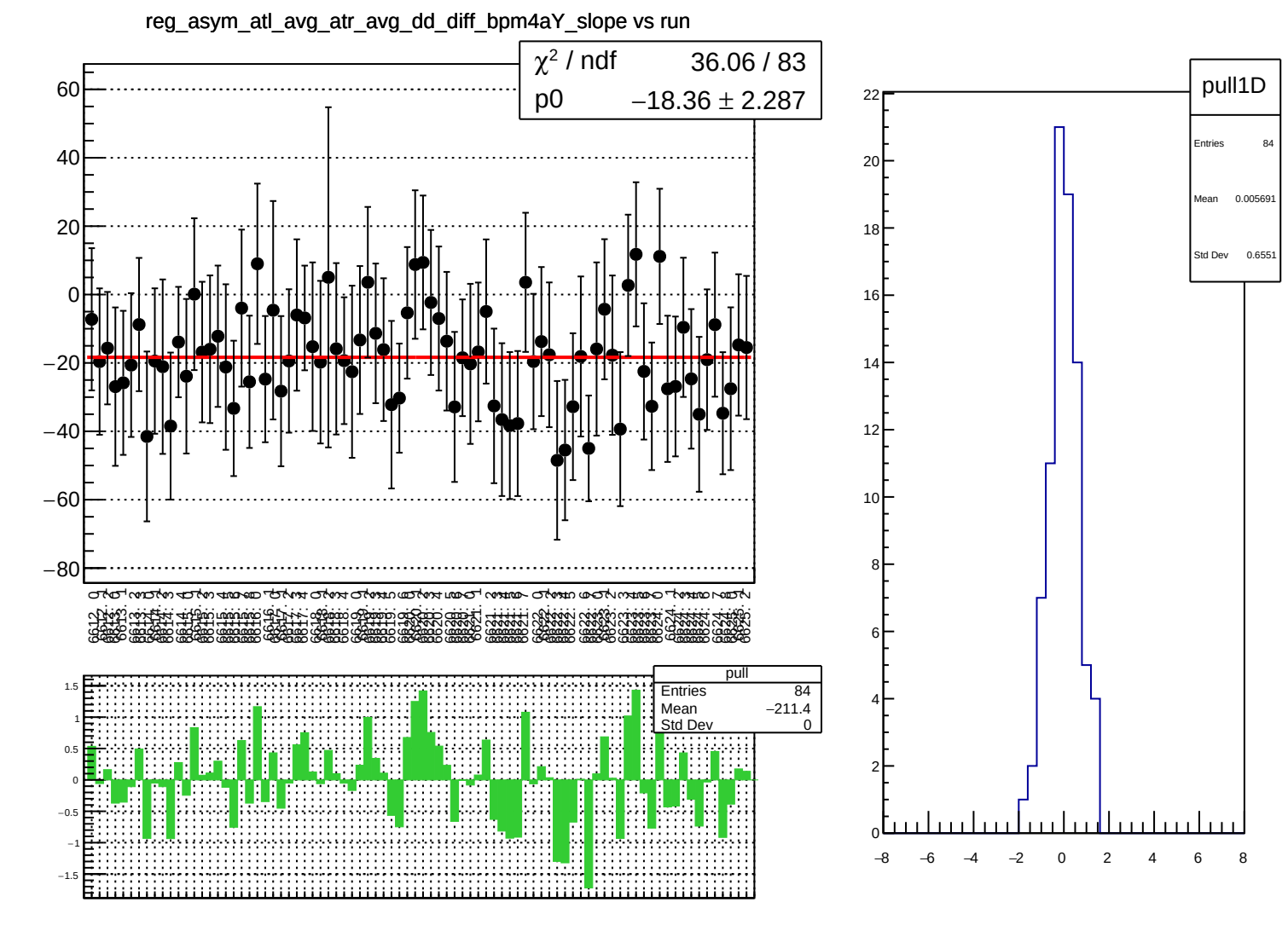

pull1D
Entries 84
Mean 0.002296
Std Dev 0.6273

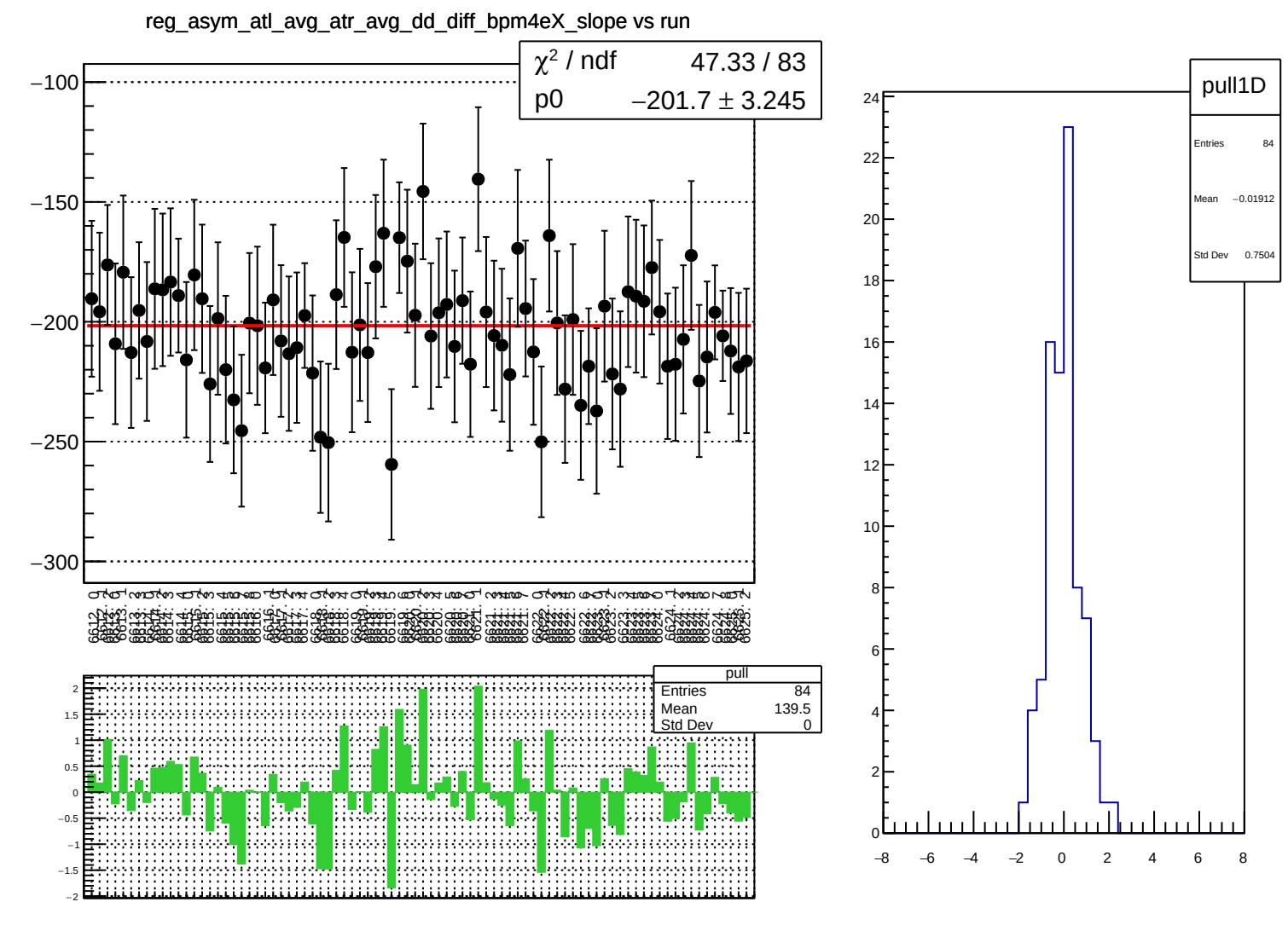

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 159 / 83
p0 −87.54 ± 0.1374
pull
Entries 84
Mean −859
Std Dev 0

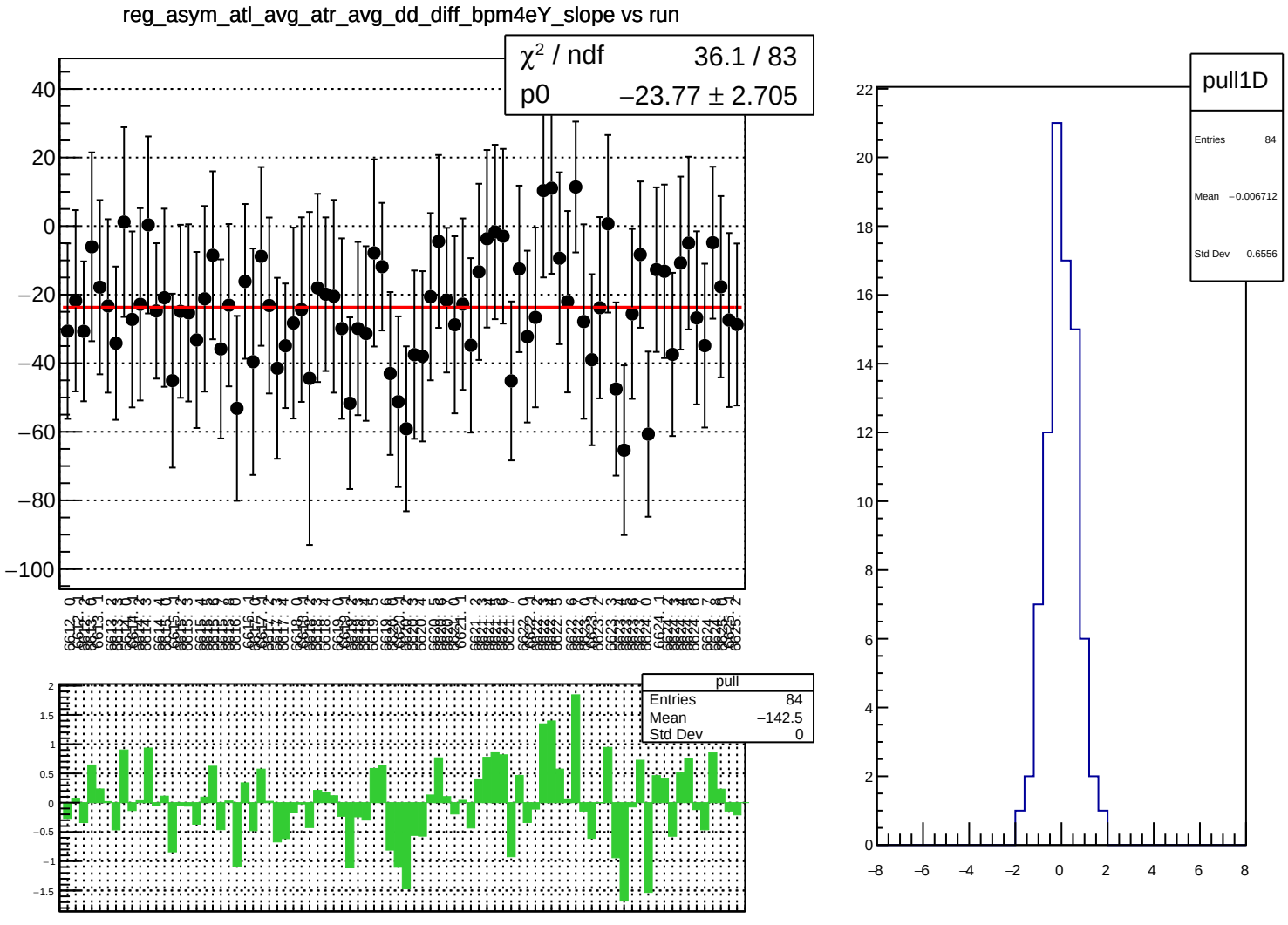

pull1D
Entries 84
Mean −0.01556
Std Dev 1.376

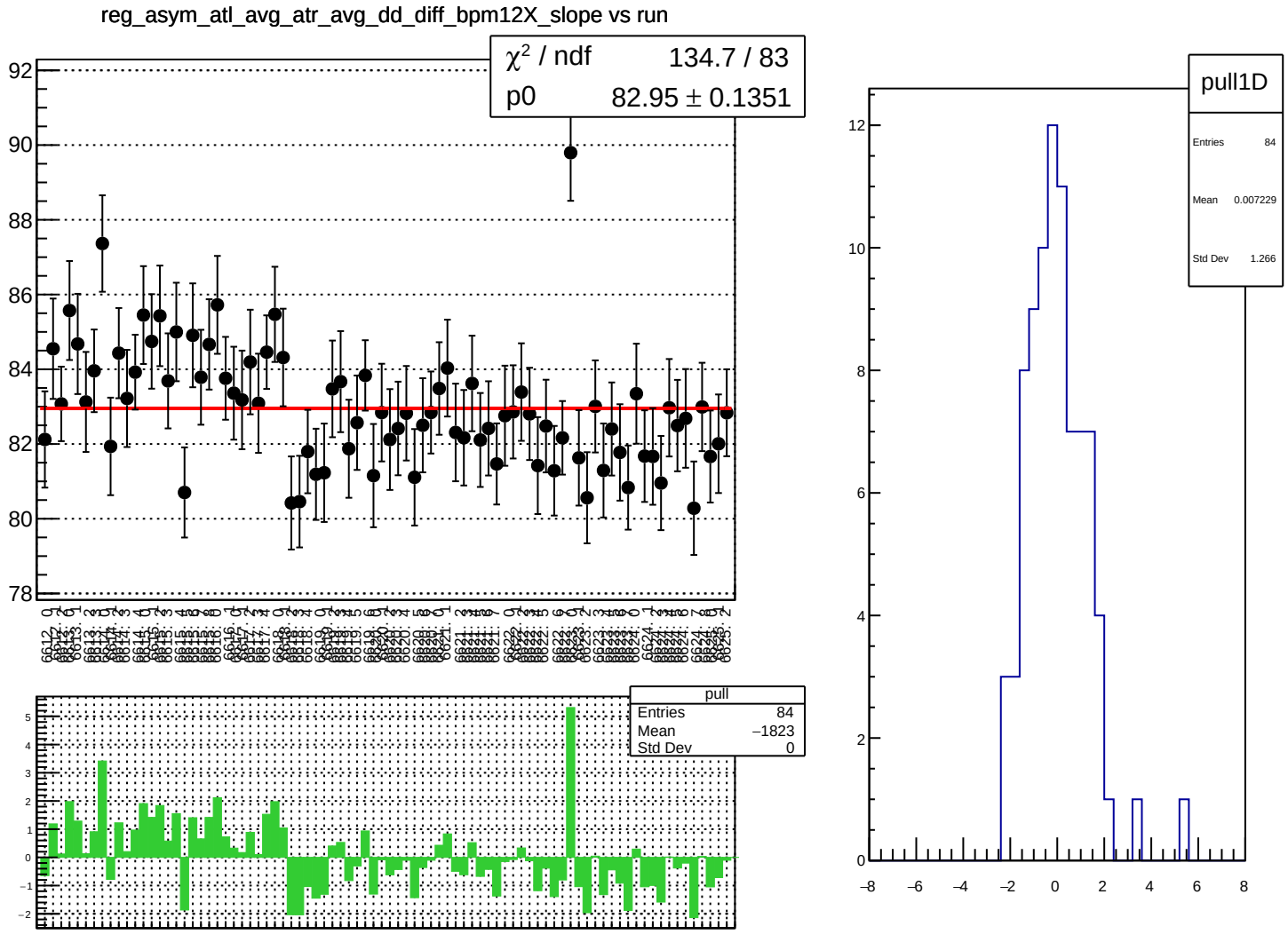

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 47 / 83
p0 143 ± 3.156
pull
Entries 84
Mean 110
Std Dev 0

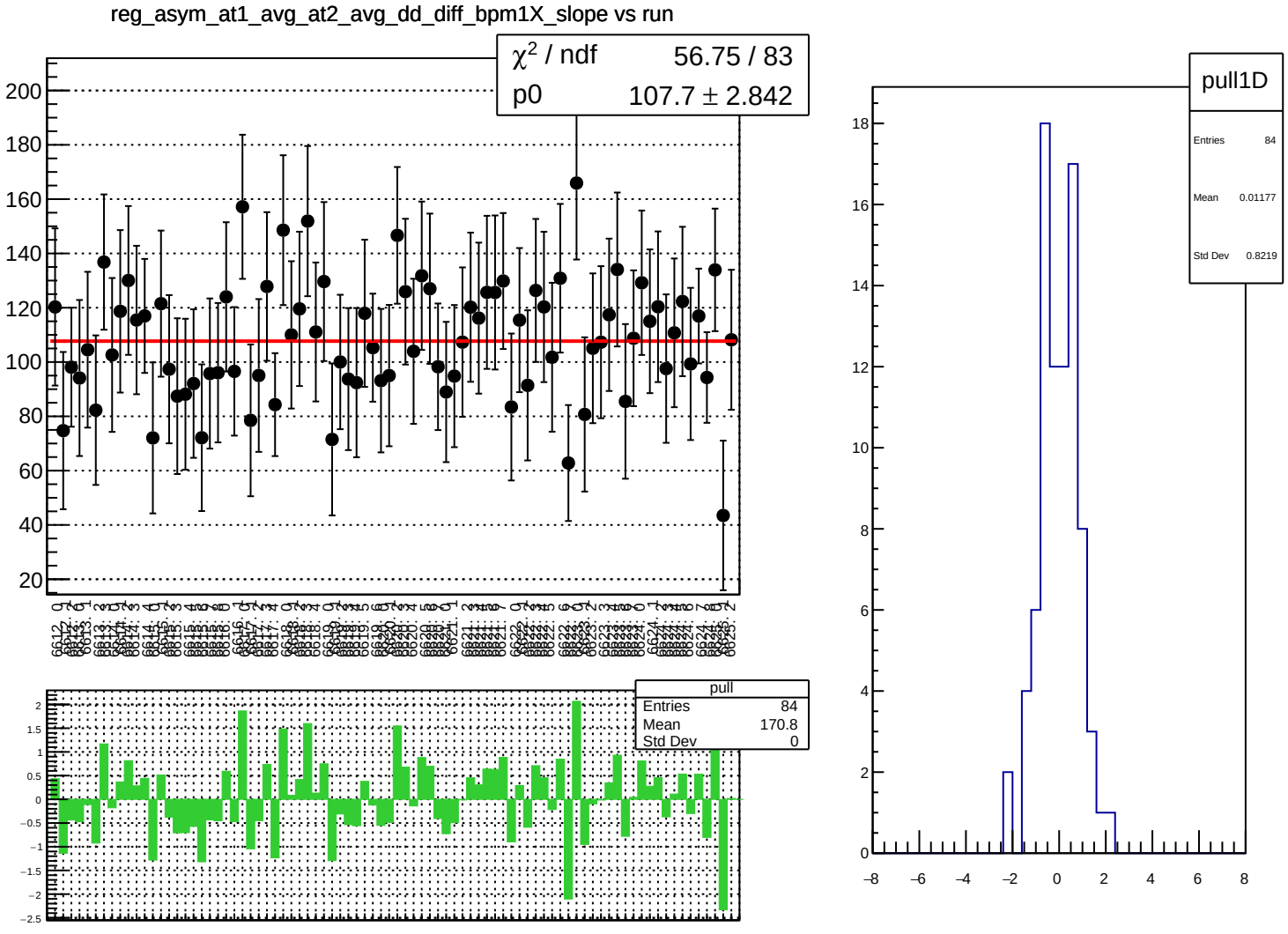

pull1D
Entries 84
Mean 0.01982
Std Dev 0.7478

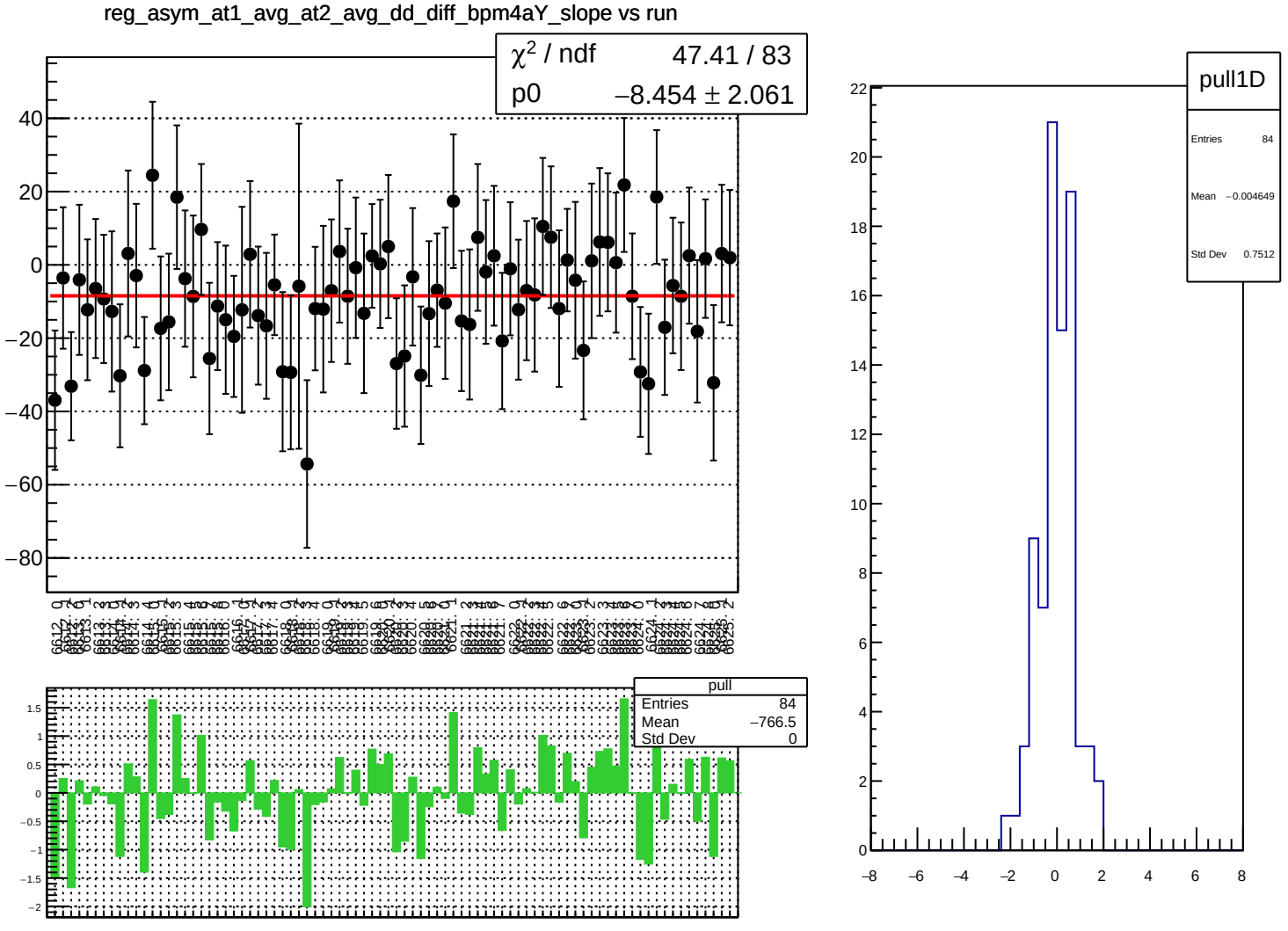

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.06 / 83
p0 −18.36 ± 2.287
pull
Entries 84
Mean −211.4
Std Dev 0
pull1D
Entries 84
Mean 0.005691
Std Dev 0.6551

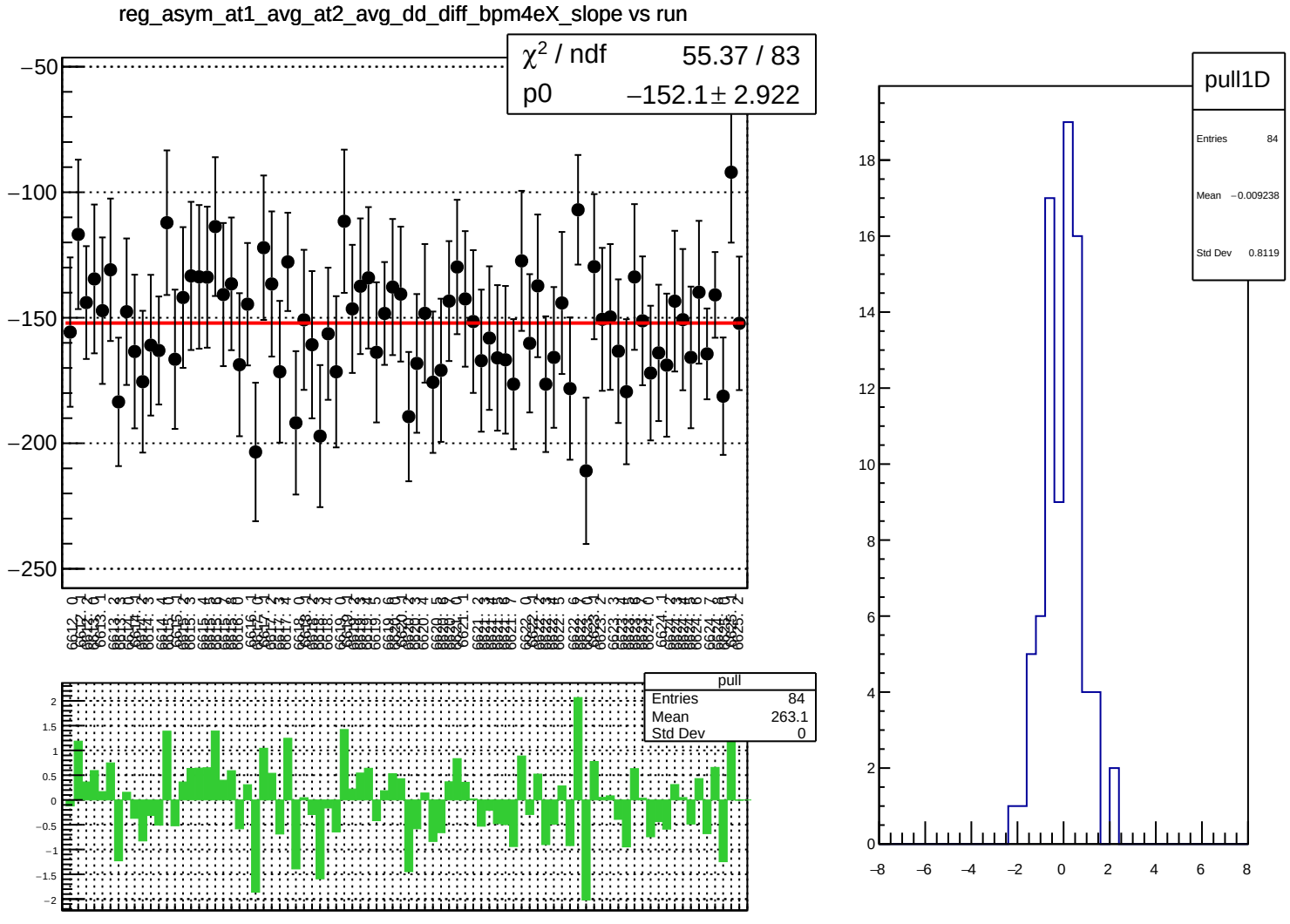

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.33 / 83
p0 −201.7 ± 3.245
−100
−150
−200
−250
−300
pull
Entries 84
Mean 139.5
Std Dev 0
pull1D
Entries 84
Mean −0.01912
Std Dev 0.7504

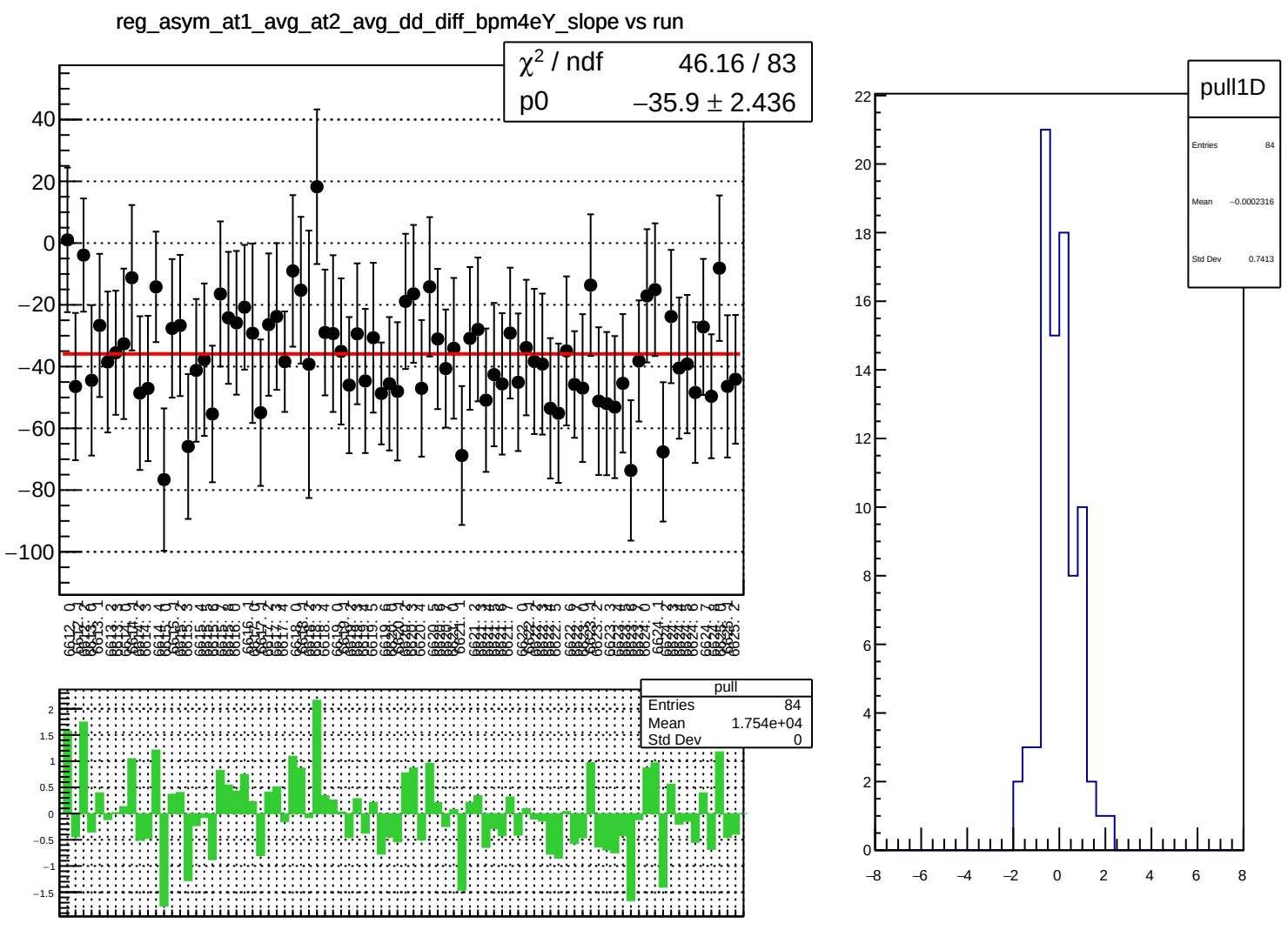

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.1 / 83
p0 −23.77 ± 2.705
pull
Entries 84
Mean −142.5
Std Dev 0
pull1D
Entries 84
Mean −0.006712
Std Dev 0.6556

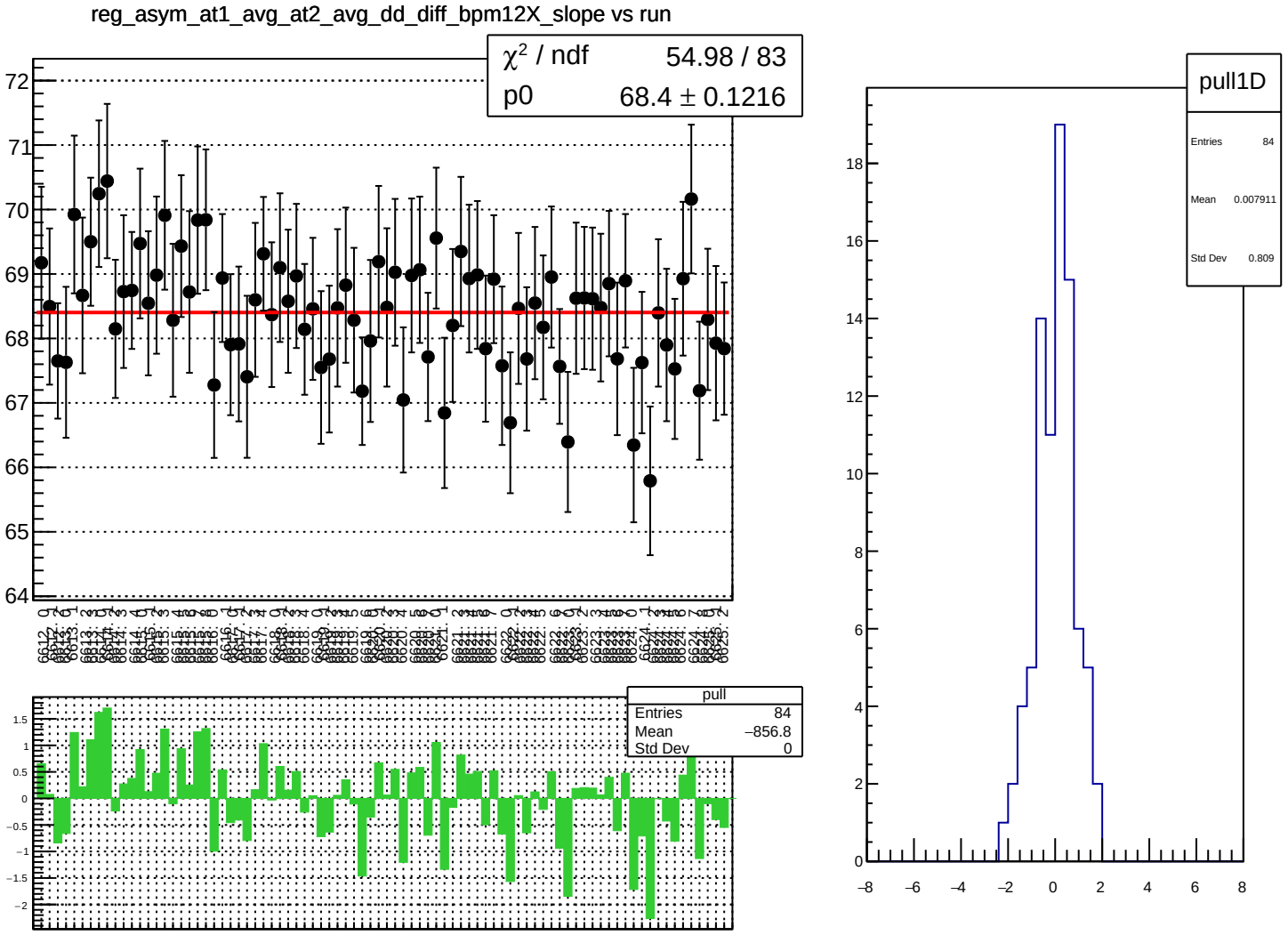

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 134.7 / 83
p0 82.95 ± 0.1351
pull
Entries 84
Mean −1823
Std Dev 0
pull1D
Entries 84
Mean 0.007229
Std Dev 1.266

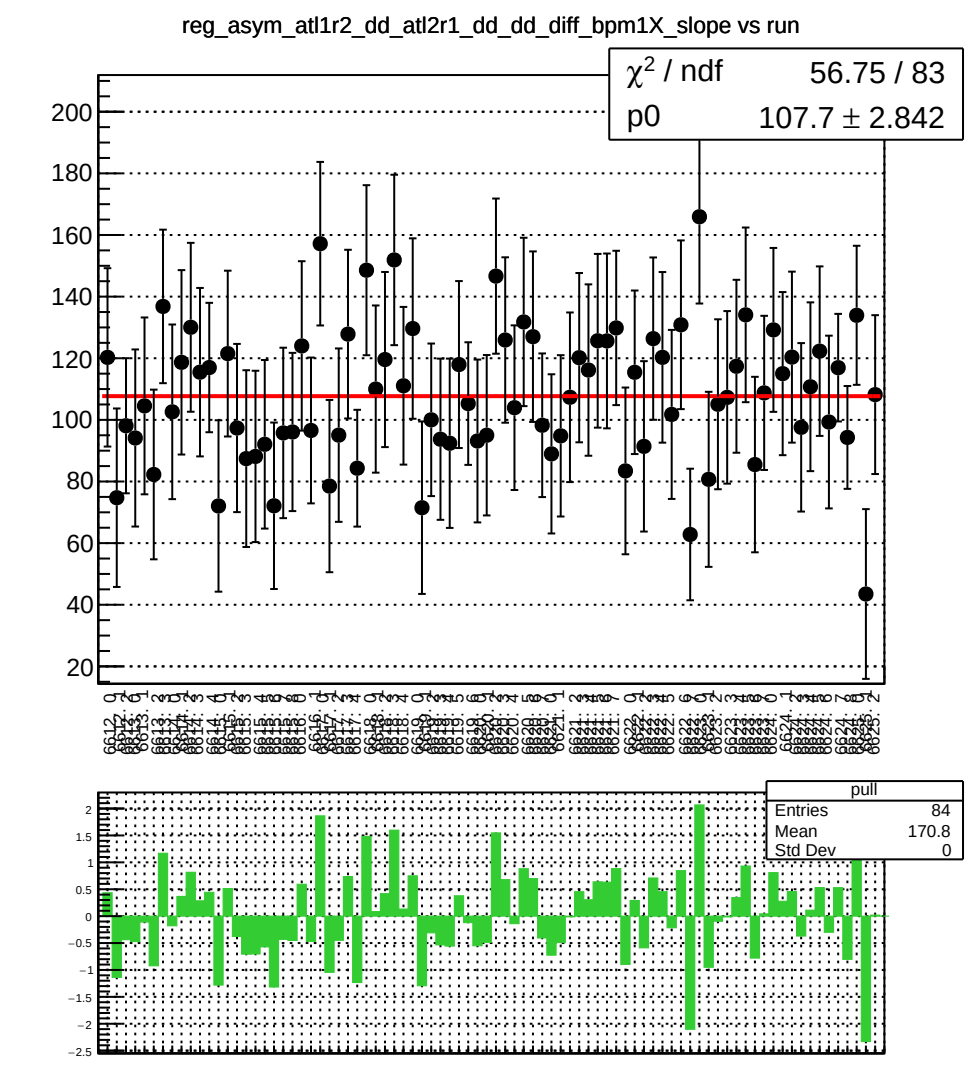

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 56.75 / 83
p0 107.7 ± 2.842
pull
Entries 84
Mean 170.8
Std Dev 0
pull1D
Entries 84
Mean 0.01177
Std Dev 0.8219

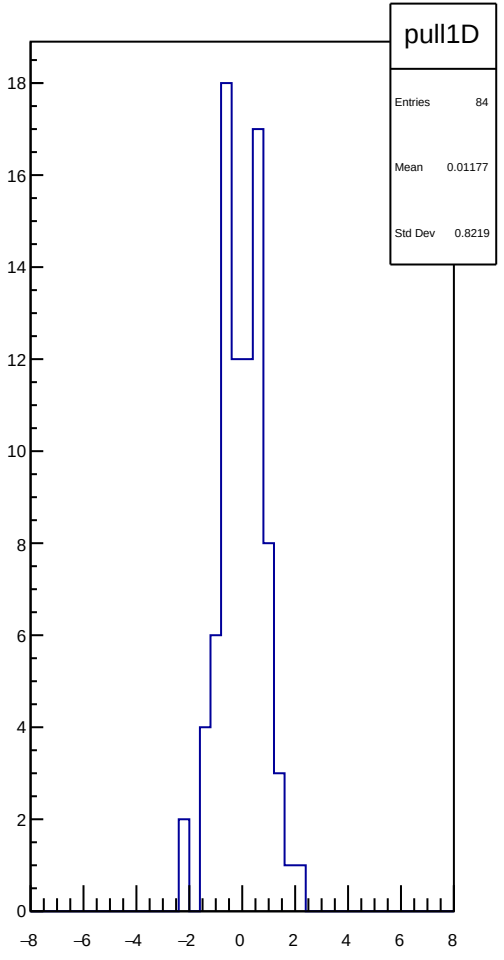

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.41 / 83
p0 −8.454 ± 2.061
pull
Entries 84
Mean −766.5
Std Dev 0
pull1D
Entries 84
Mean −0.004649
Std Dev 0.7512

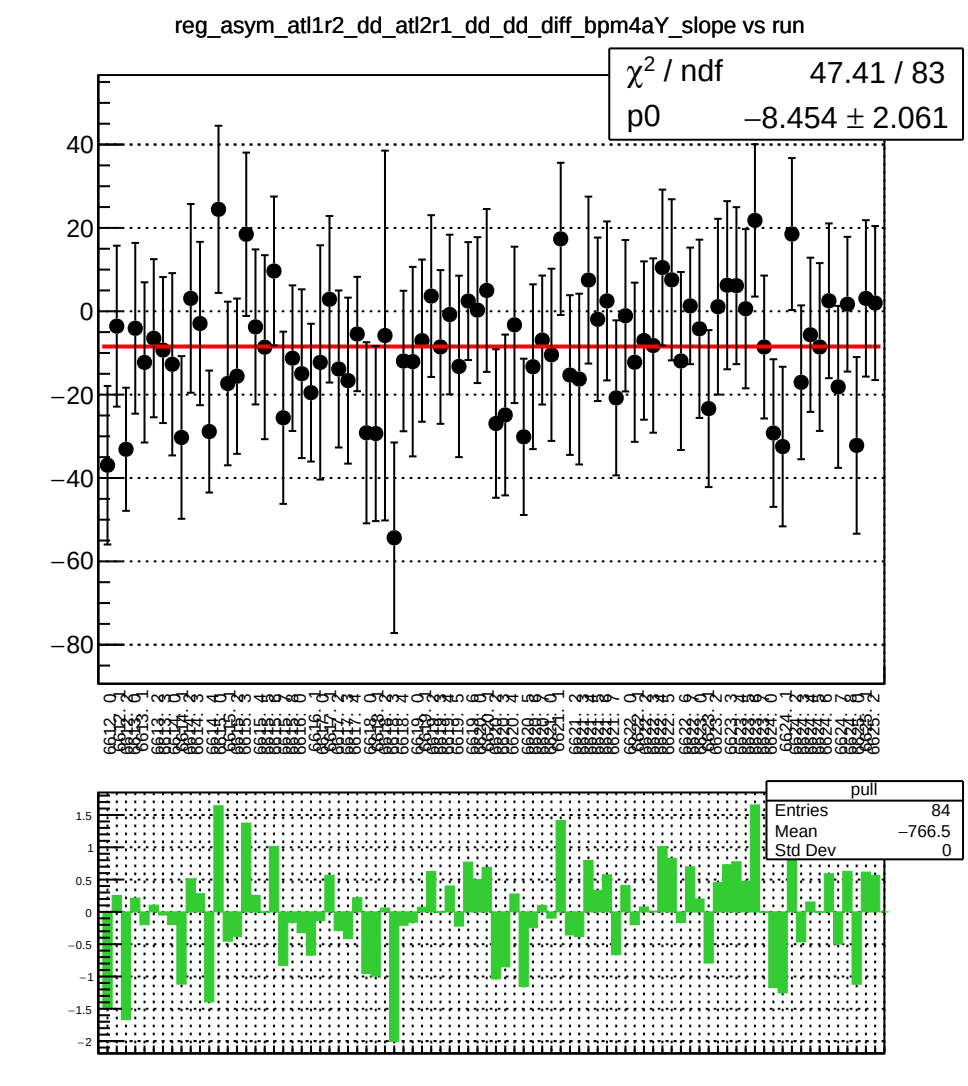

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.37 / 83
p0 −152.1± 2.922
pull
Entries 84
Mean 263.1
Std Dev 0
pull1D
Entries 84
Mean −0.009238
Std Dev 0.8119

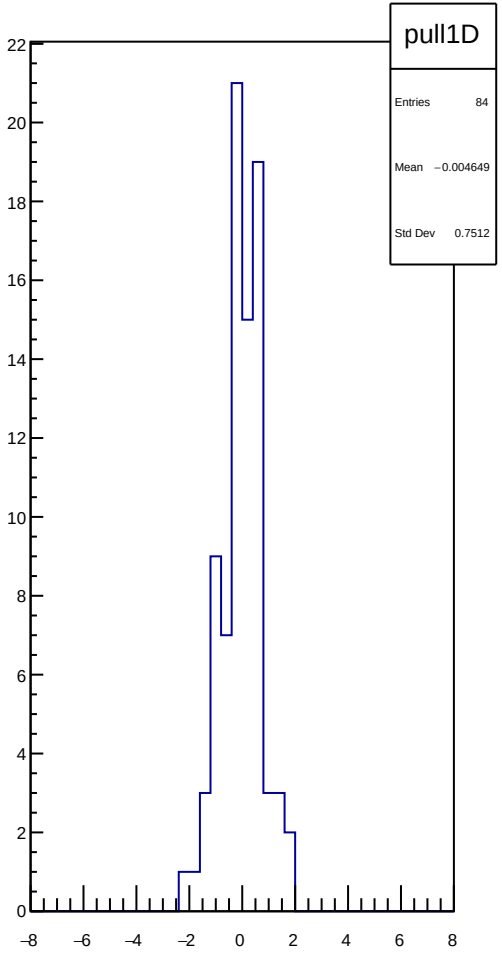

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.16 / 83
p0 −35.9 ± 2.436
pull
Entries 84
Mean 1.754e+04
Std Dev 0
pull1D
Entries 84
Mean −0.0002316
Std Dev 0.7413

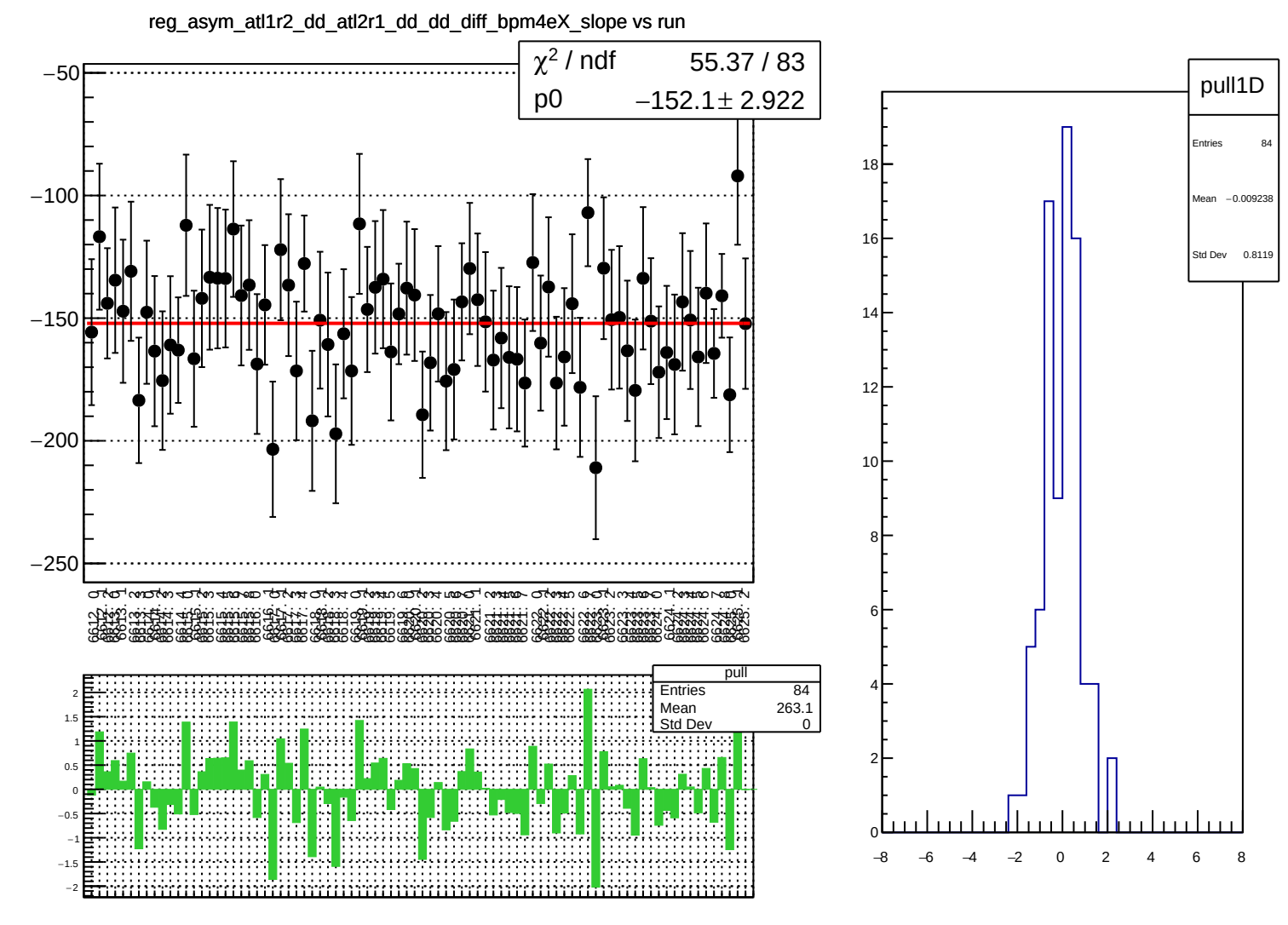

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 54.98 / 83
p0 68.4 ± 0.1216
pull
Entries 84
Mean −856.8
Std Dev 0
pull1D
Entries 84
Mean 0.007911
Std Dev 0.809

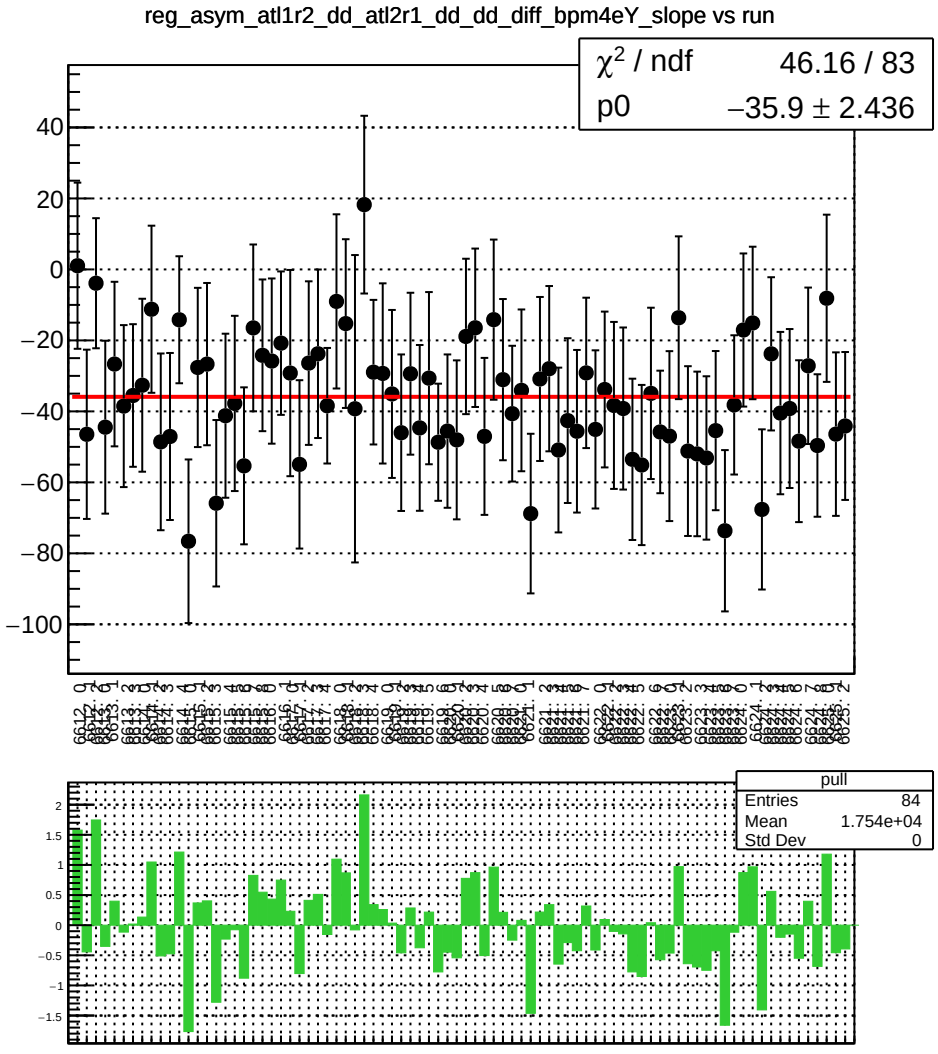

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 56.75 / 83
p0 107.7 ± 2.842
pull
Entries 84
Mean 170.8
Std Dev 0

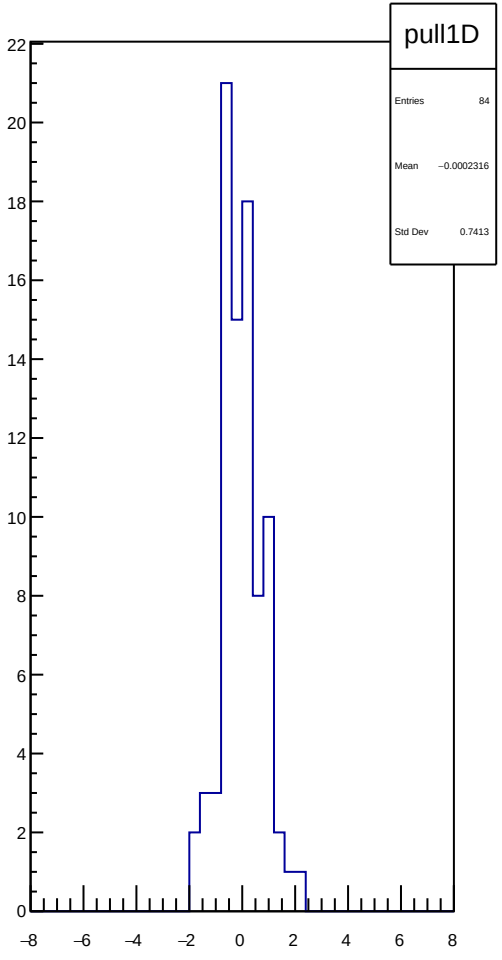

pull1D
Entries 84
Mean 0.01177
Std Dev 0.8219

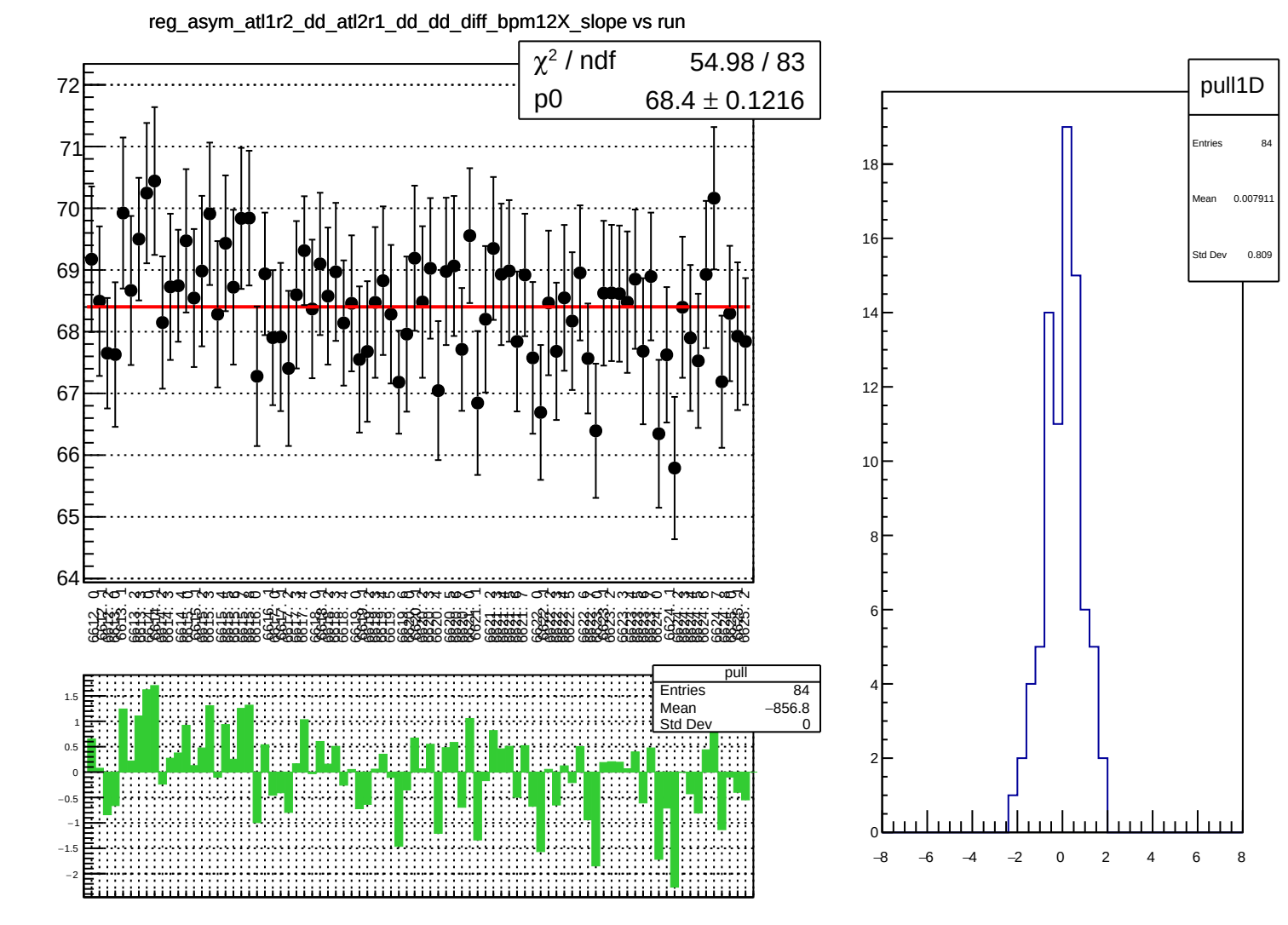

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.41 / 83
p0 −8.454 ± 2.061
pull
Entries 84
Mean −766.5
Std Dev 0

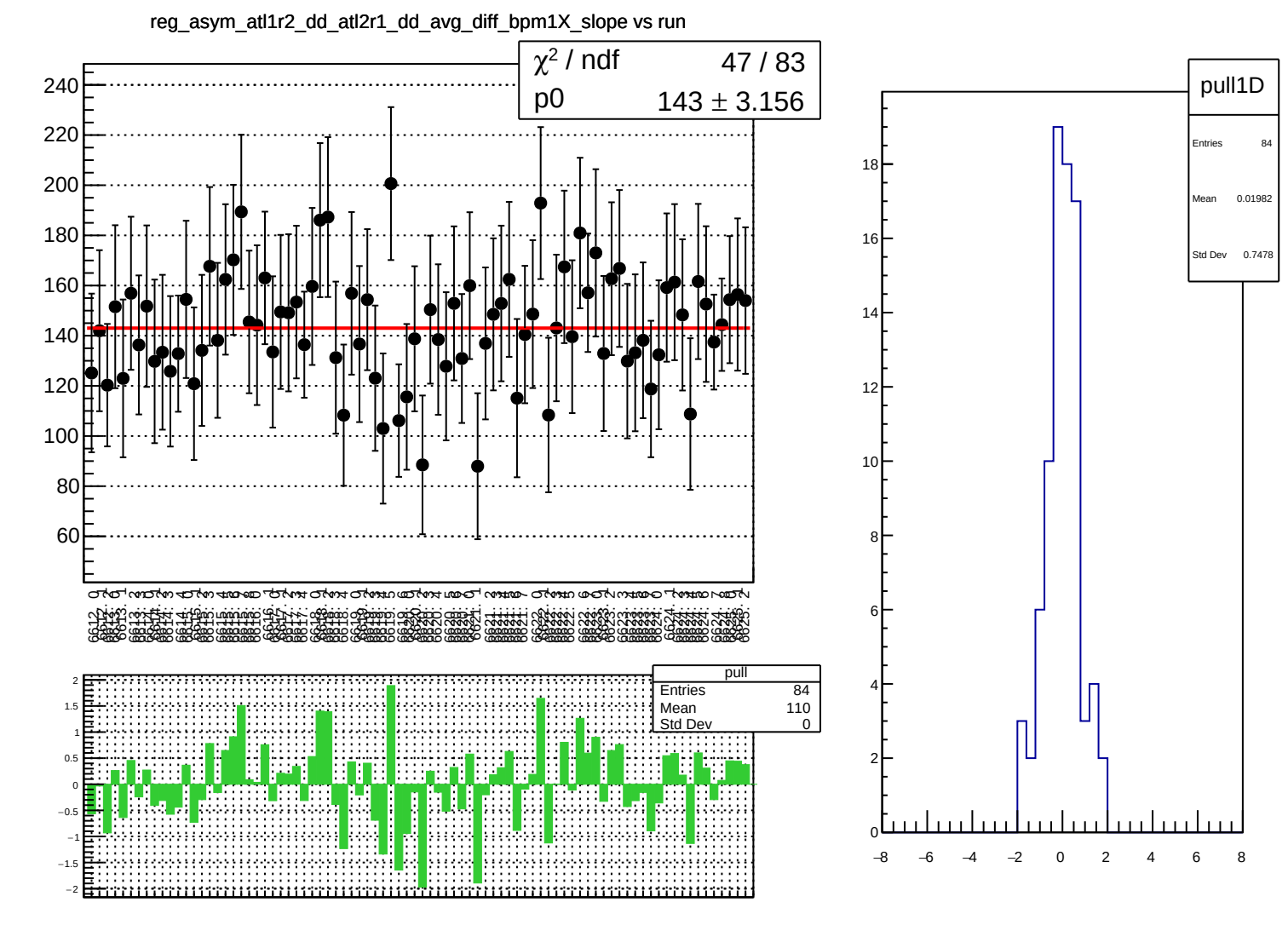

pull1D
Entries 84
Mean −0.004649
Std Dev 0.7512

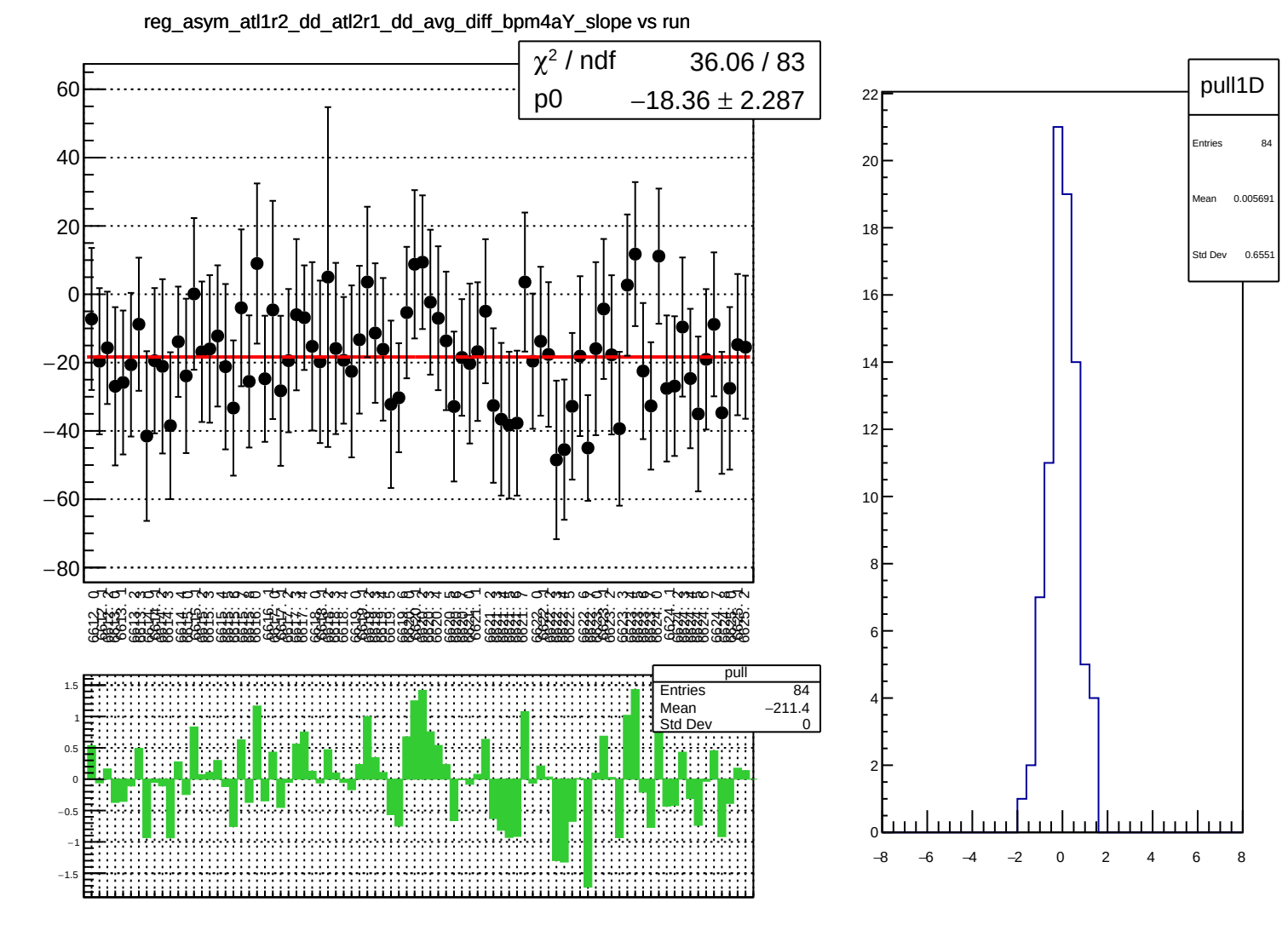

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.37 / 83
p0 −152.1± 2.922
pull
Entries 84
Mean 263.1
Std Dev 0
pull1D
Entries 84
Mean −0.009238
Std Dev 0.8119

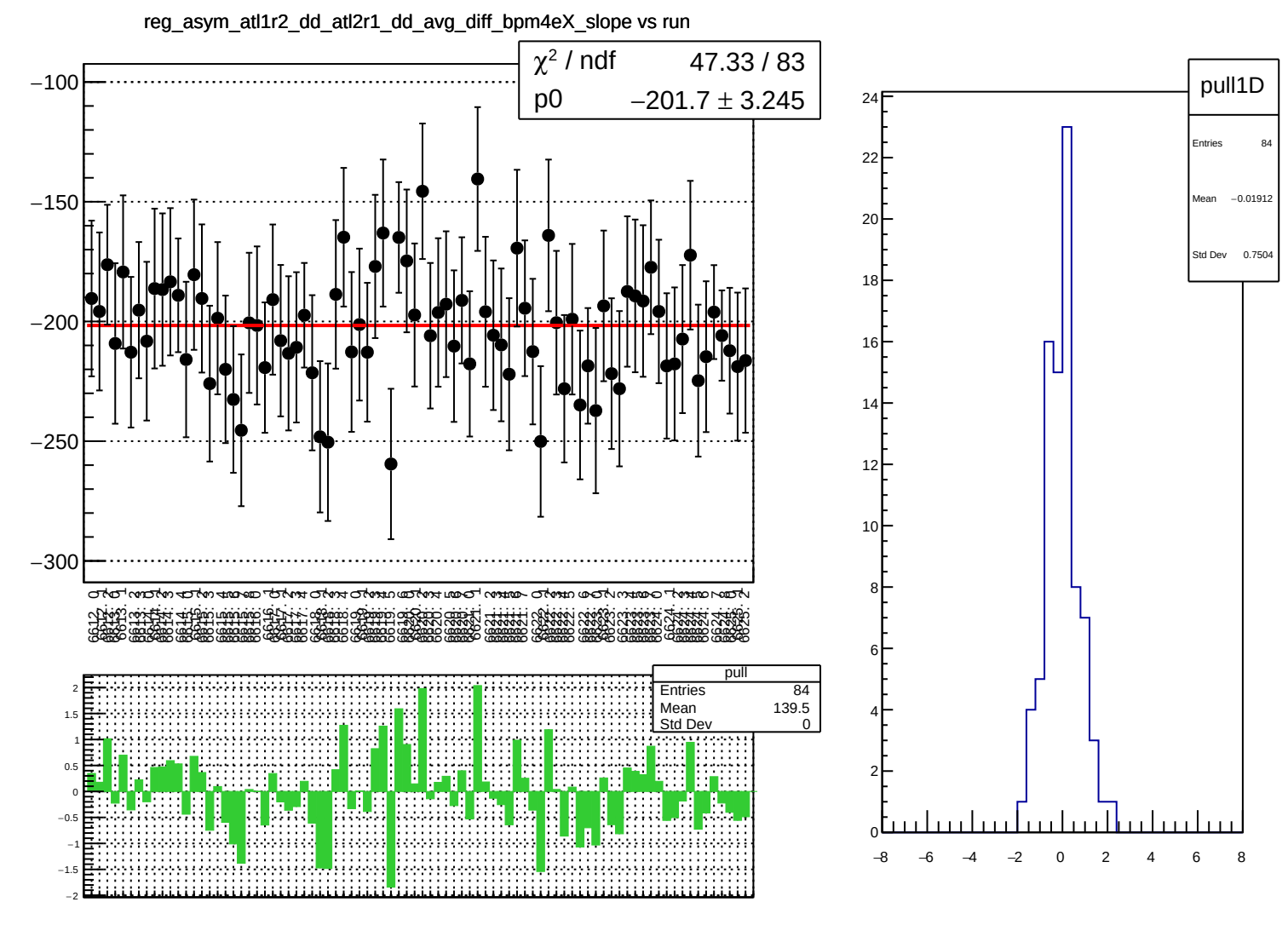

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.16 / 83
p0 −35.9 ± 2.436
pull
Entries 84
Mean 1.754e+04
Std Dev 0

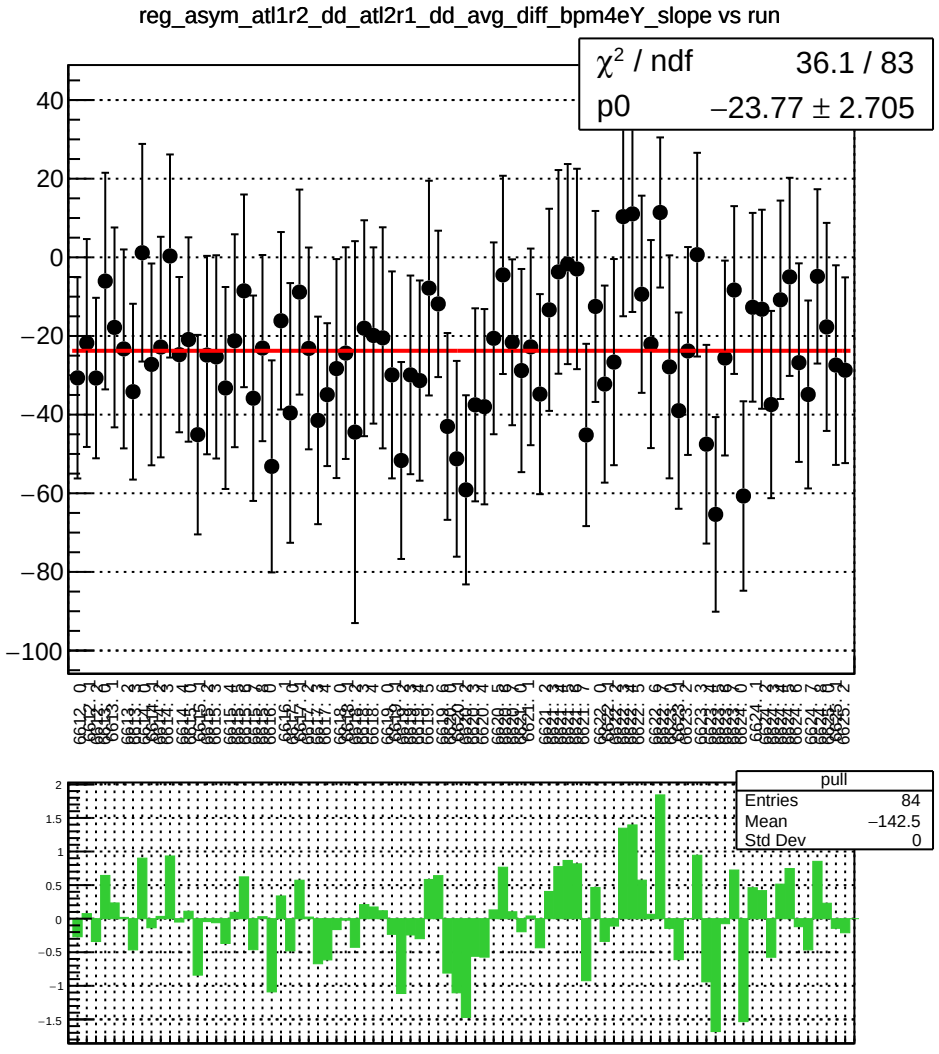

pull1D
Entries 84
Mean −0.0002316
Std Dev 0.7413

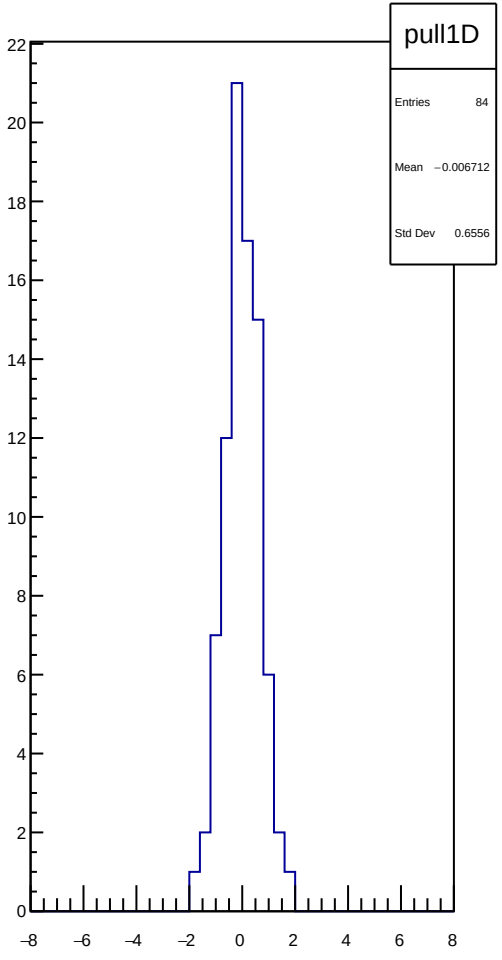

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 54.98 / 83
p0 68.4 ± 0.1216
pull
Entries 84
Mean −856.8
Std Dev 0
pull1D
Entries 84
Mean 0.007911
Std Dev 0.809

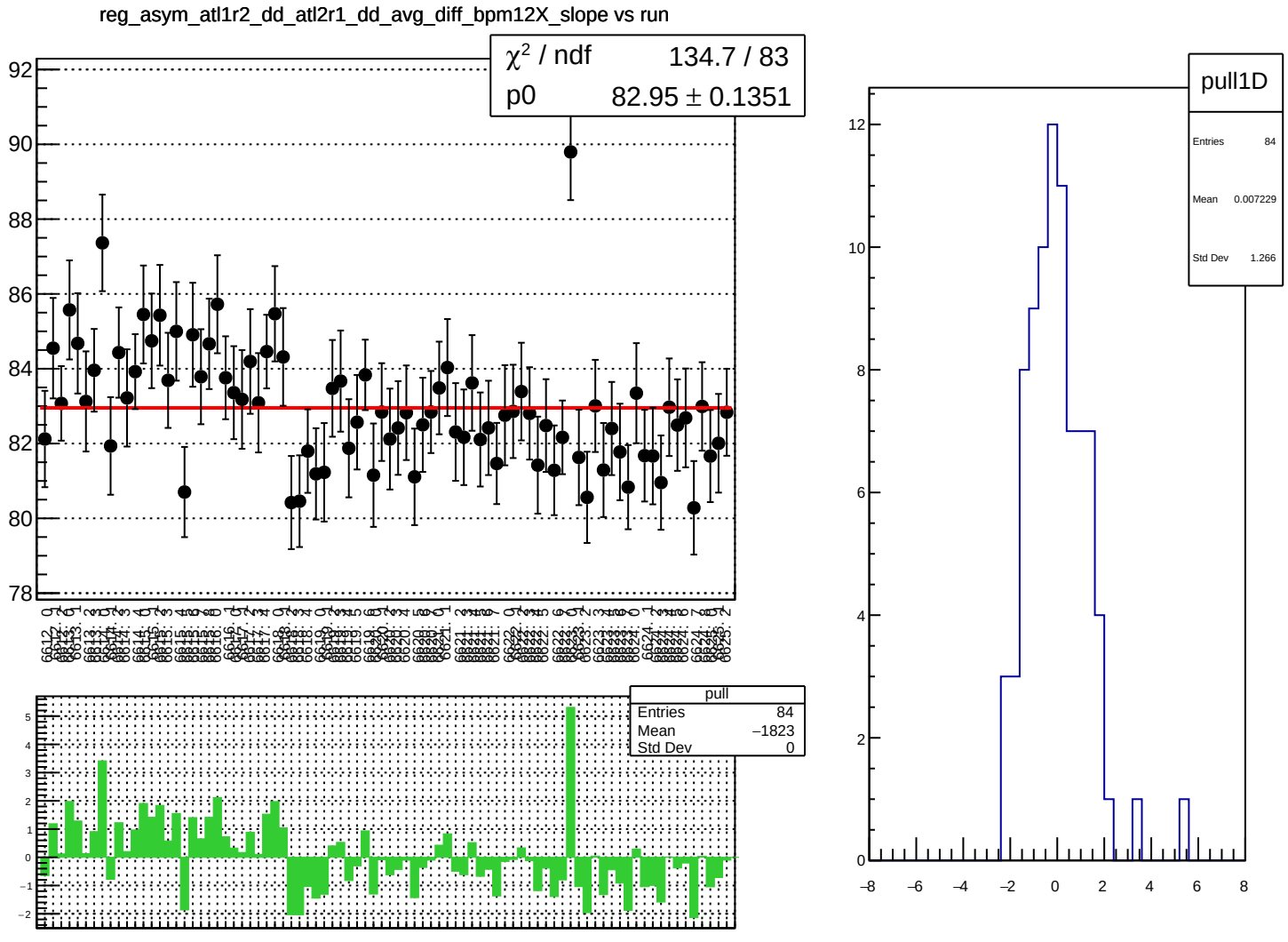

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 47 / 83
p0 143 ± 3.156
pull
Entries 84
Mean 110
Std Dev 0
pull1D
Entries 84
Mean 0.01982
Std Dev 0.7478

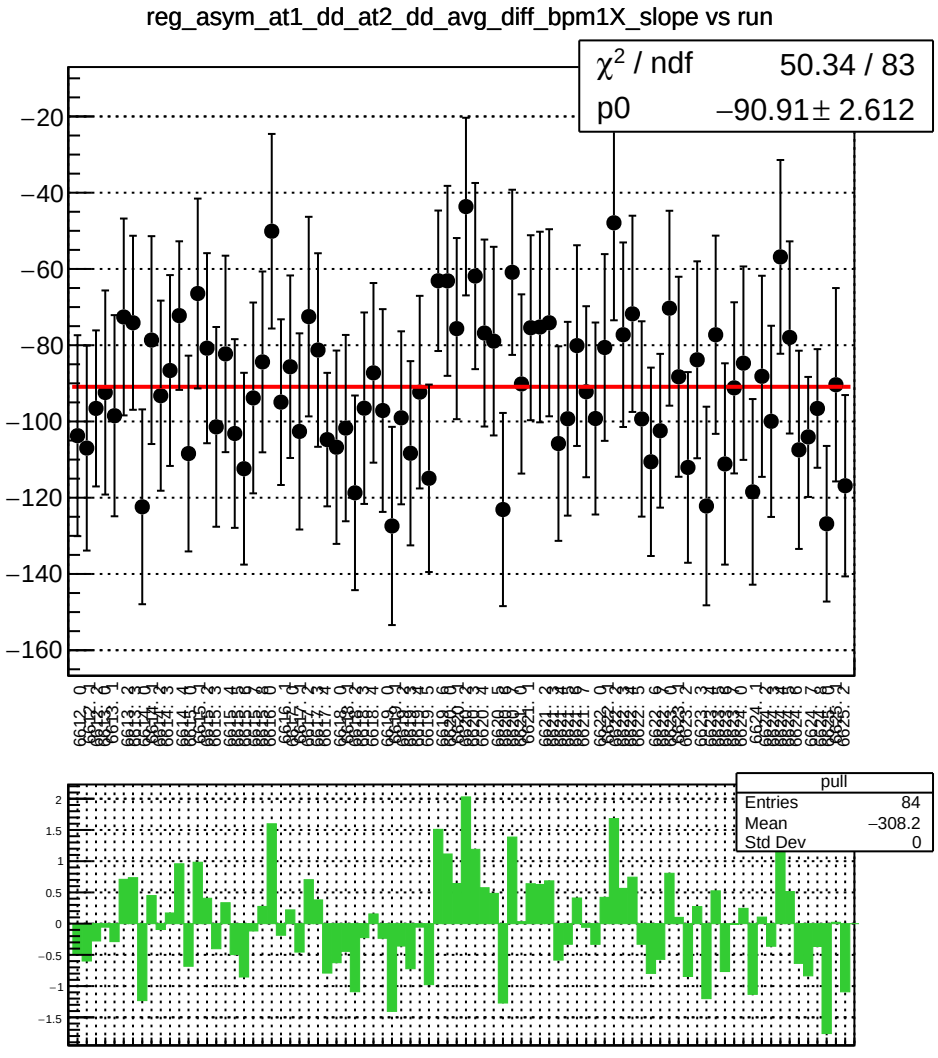

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.06 / 83
p0 −18.36 ± 2.287
pull
Entries 84
Mean −211.4
Std Dev 0
pull1D
Entries 84
Mean 0.005691
Std Dev 0.6551

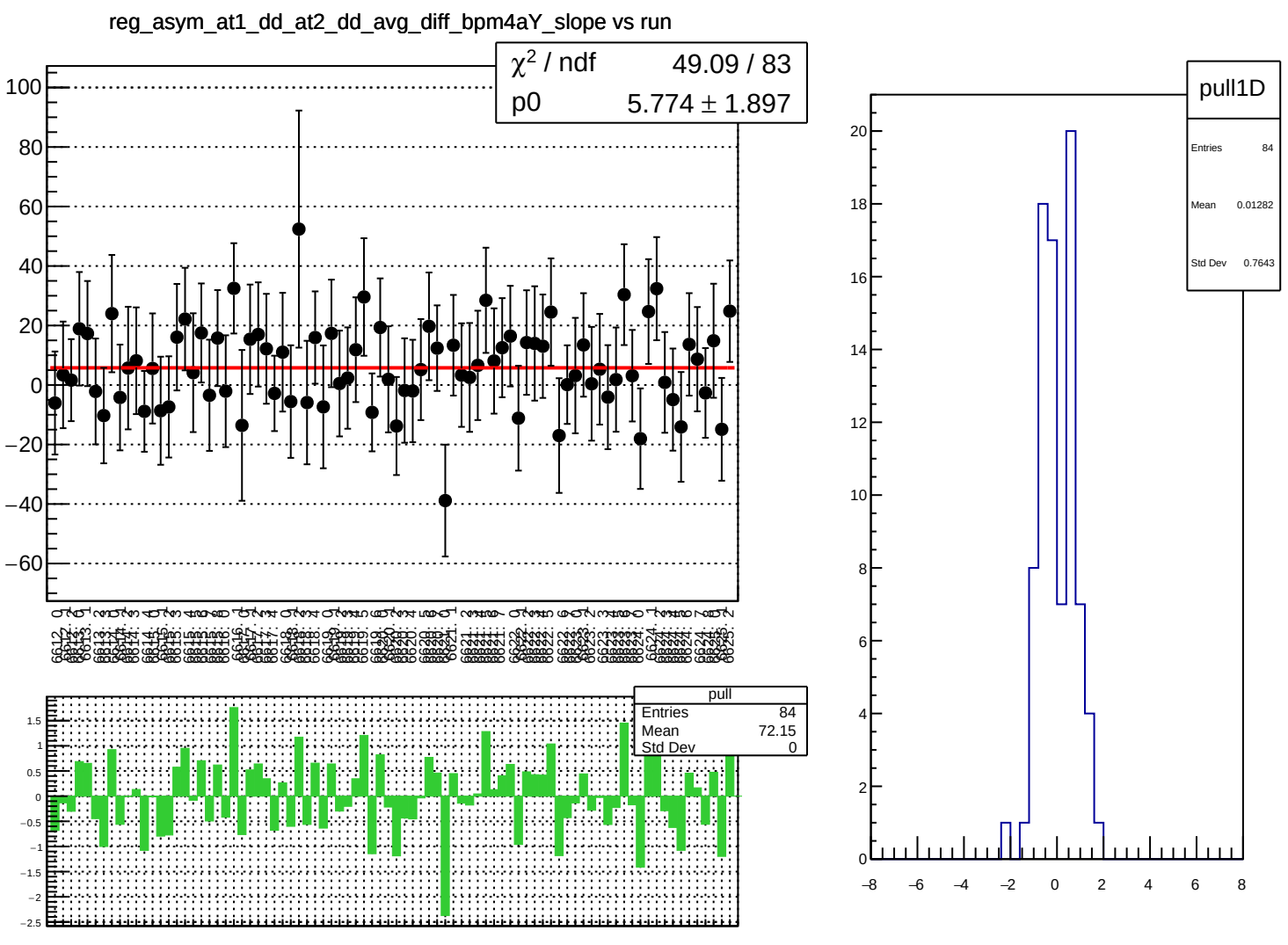

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.33 / 83
p0 −201.7 ± 3.245
pull
Entries 84
Mean 139.5
Std Dev 0
pull1D
Entries 84
Mean −0.01912
Std Dev 0.7504

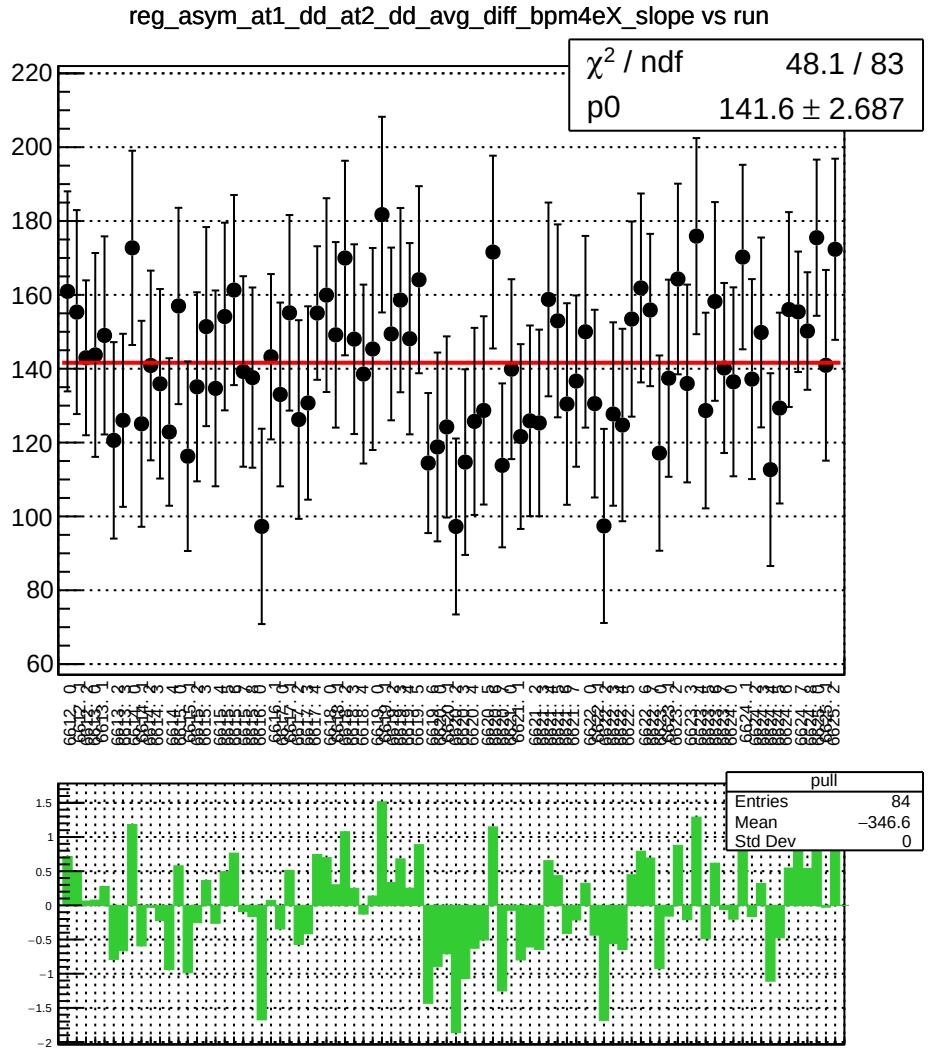

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.1 / 83
p0 −23.77 ± 2.705
pull
Entries 84
Mean −142.5
Std Dev 0

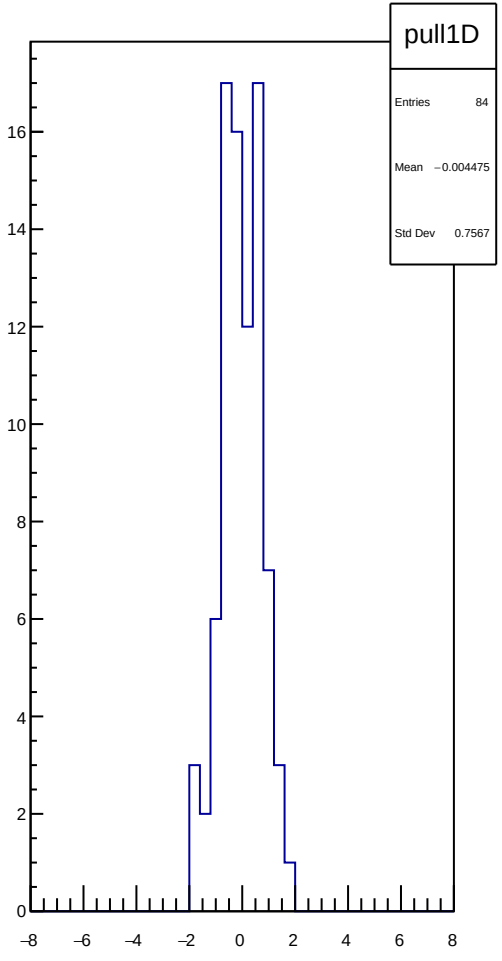

pull1D
Entries 84
Mean −0.006712
Std Dev 0.6556

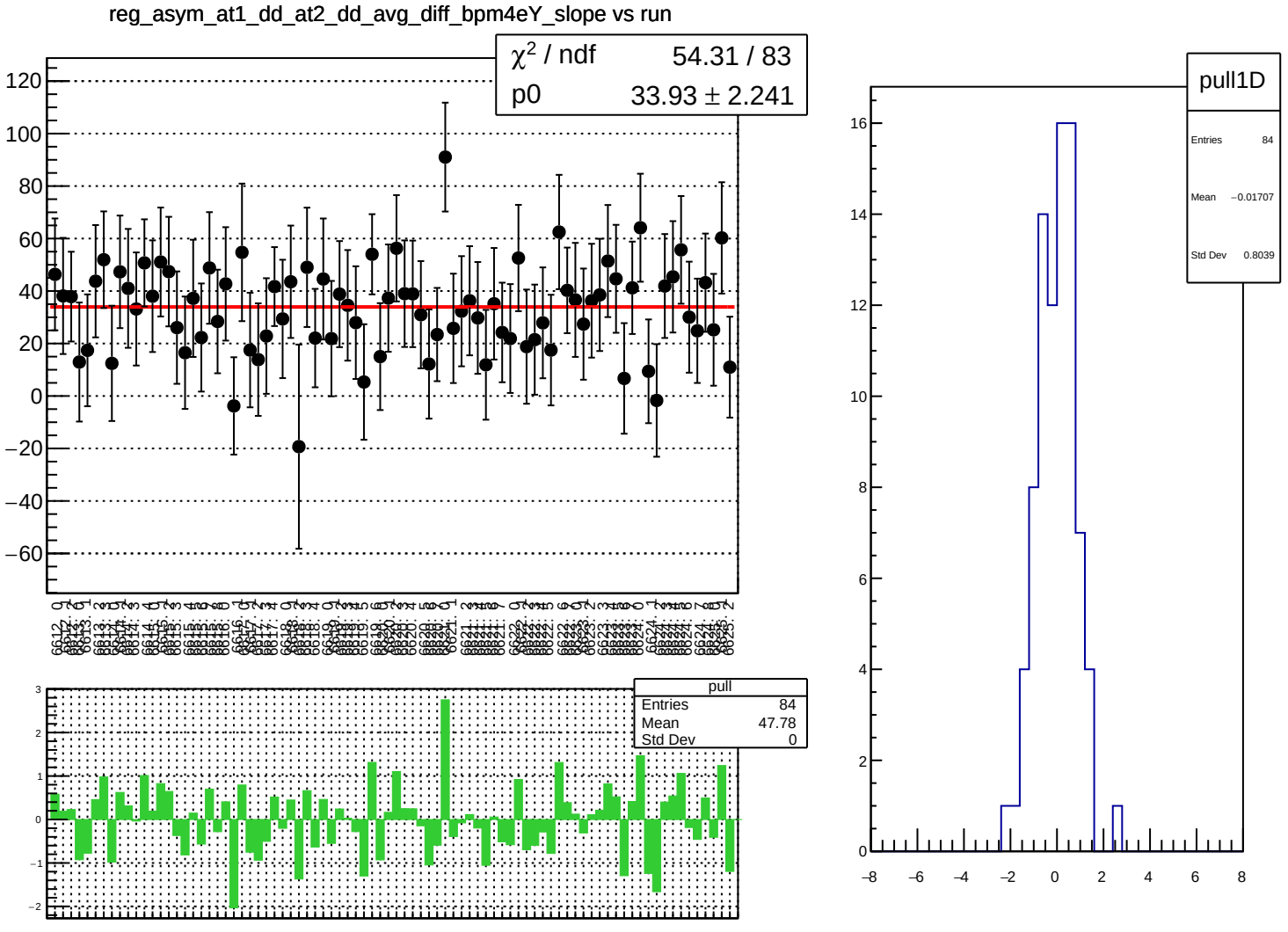

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 134.7 / 83
p0 82.95 ± 0.1351
pull
Entries 84
Mean −1823
Std Dev 0
pull1D
Entries 84
Mean 0.007229
Std Dev 1.266

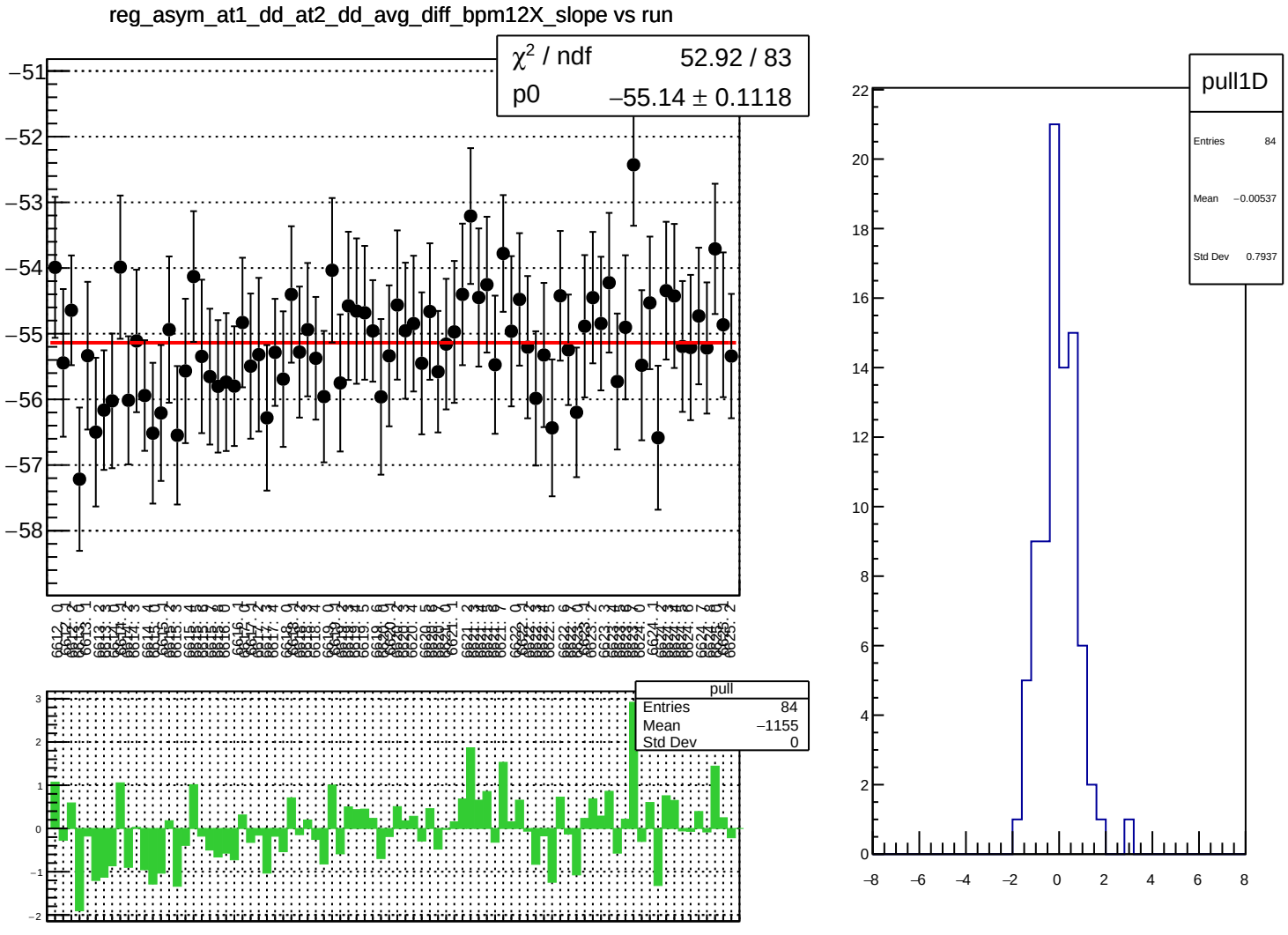

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 50.34 / 83
p0 −90.91 ± 2.612
pull
Entries 84
Mean −308.2
Std Dev 0
pull1D
Entries 84
Mean 0.003864
Std Dev 0.7741

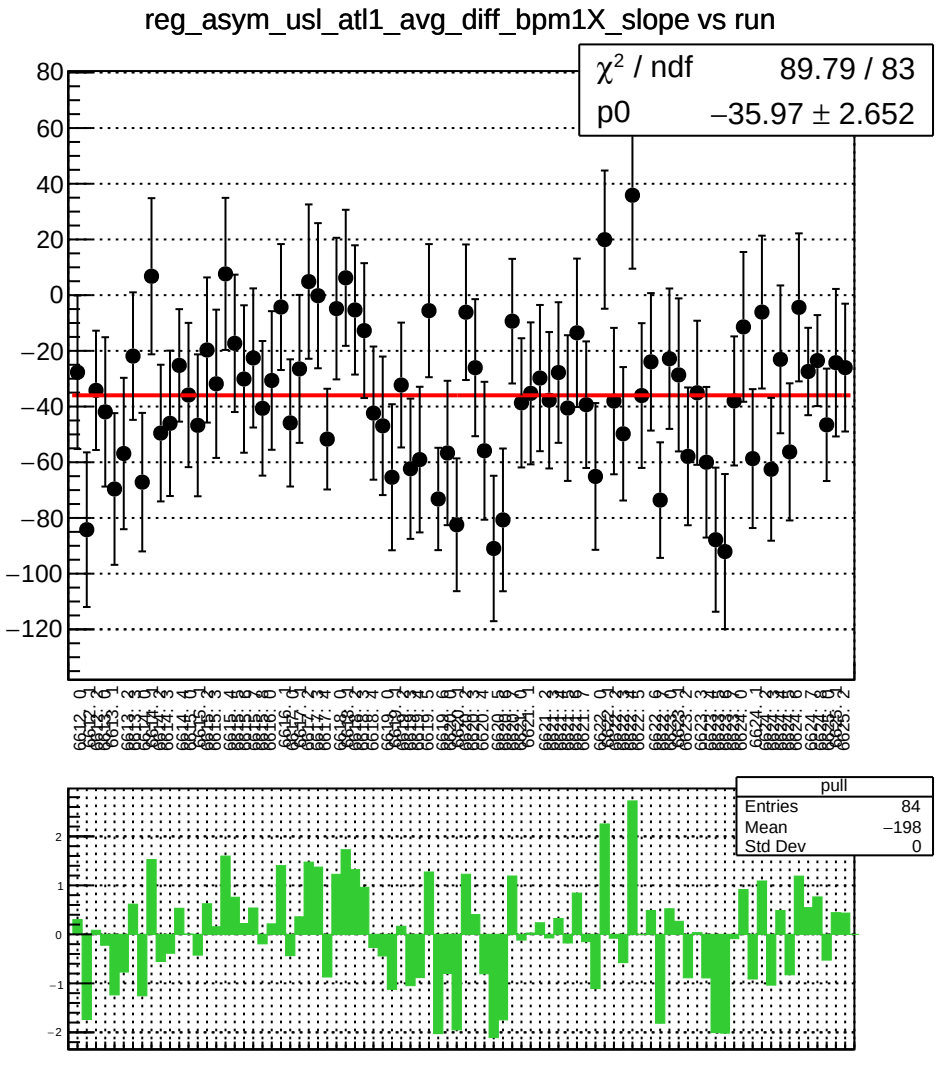

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.09 / 83
p0 5.774 ± 1.897
pull
Entries 84
Mean 72.15
Std Dev 0
pull1D
Entries 84
Mean 0.01282
Std Dev 0.7643

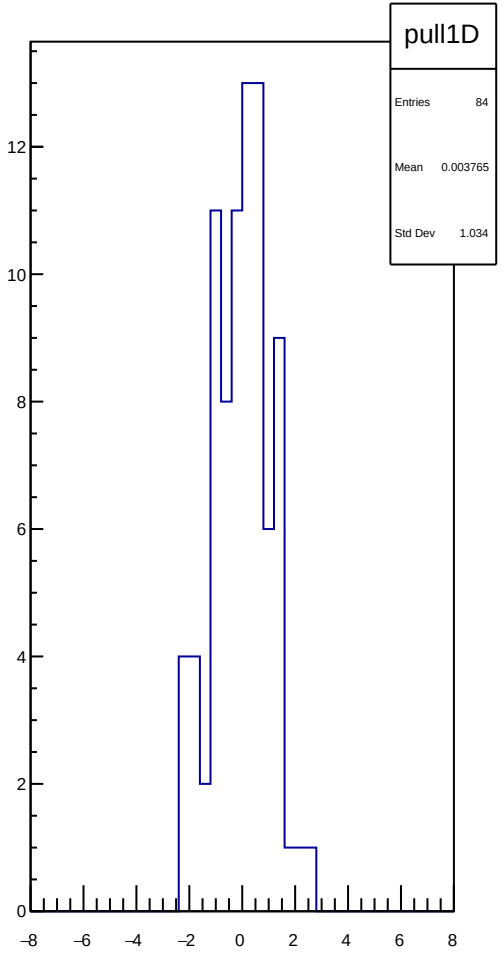

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 48.1 / 83
p0 141.6 ± 2.687
pull
Entries 84
Mean −346.6
Std Dev 0

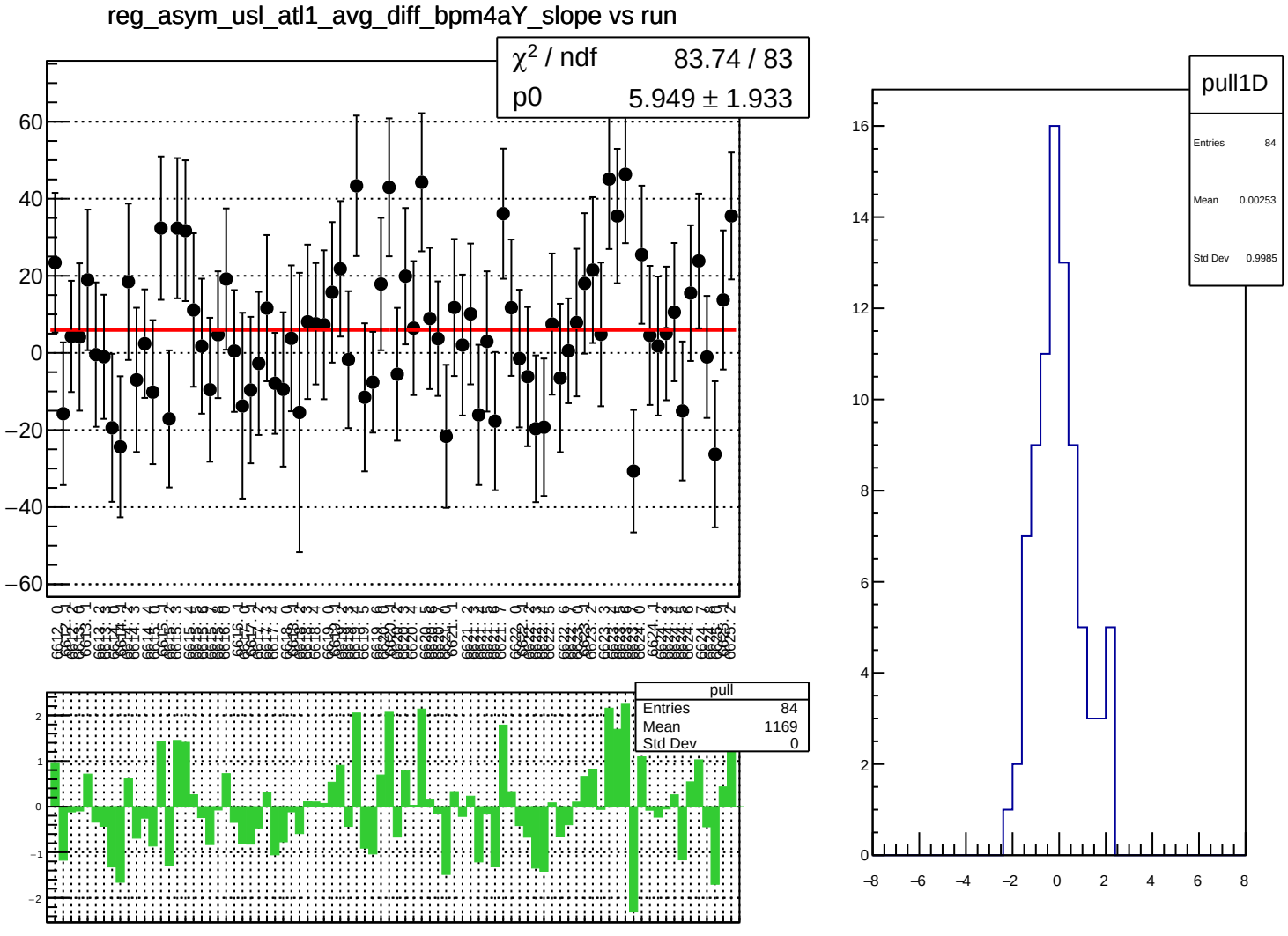

pull1D
Entries 84
Mean −0.004475
Std Dev 0.7567

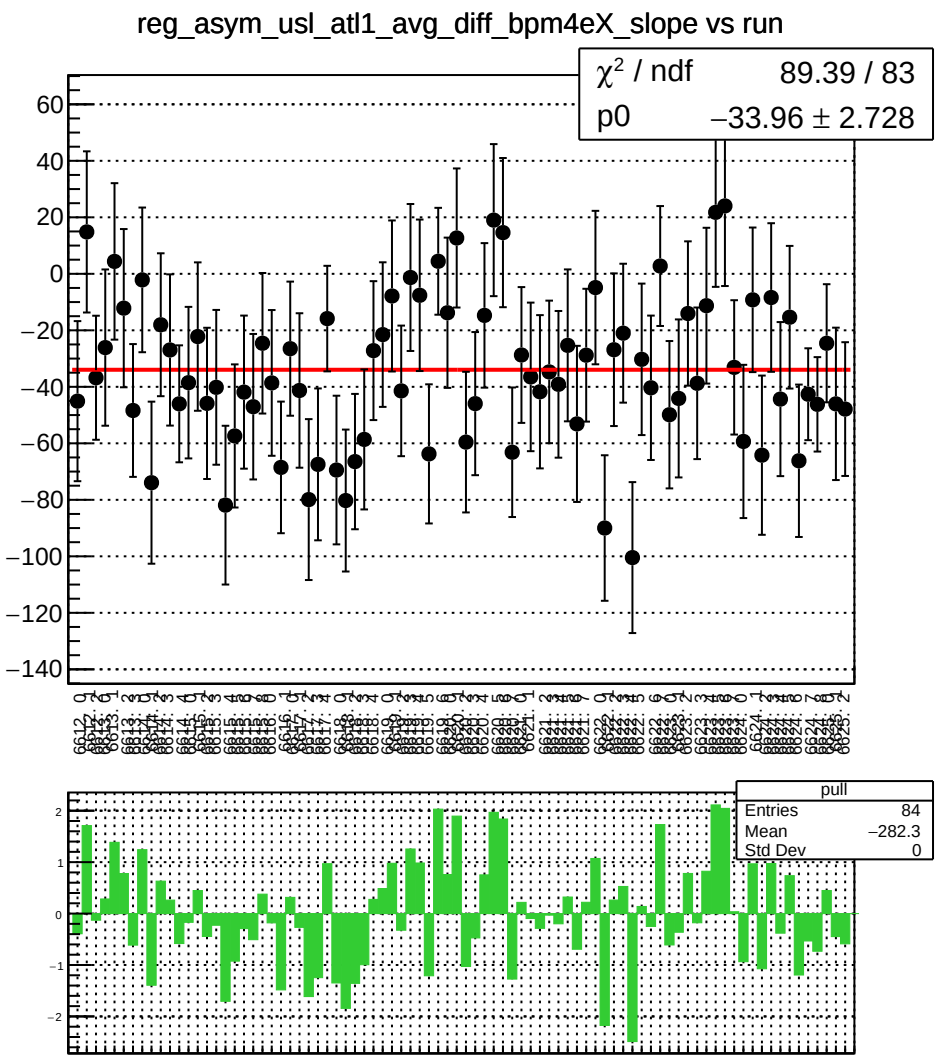

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 54.31 / 83
p0 33.93 ± 2.241
pull
Entries 84
Mean 47.78
Std Dev 0
pull1D
Entries 84
Mean −0.01707
Std Dev 0.8039

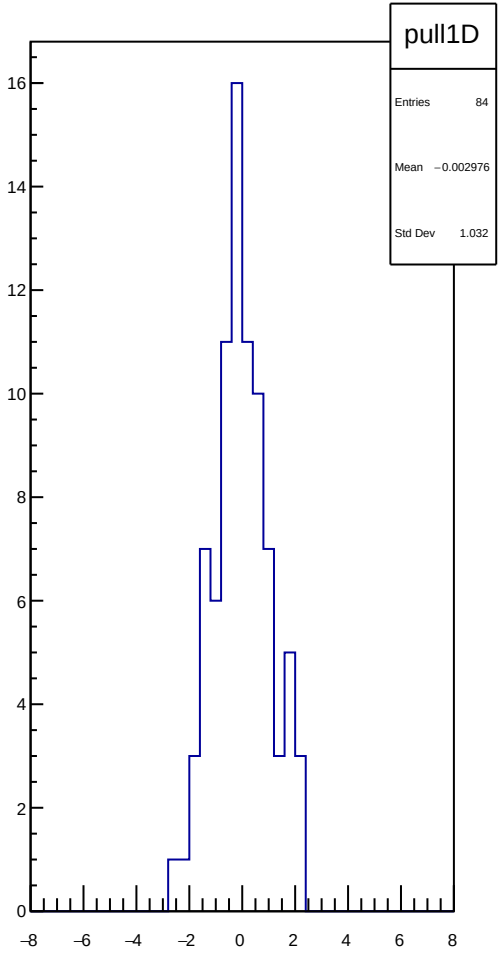

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 52.92 / 83
p0 −55.14 ± 0.1118
pull
Entries 84
Mean −1155
Std Dev 0
pull1D
Entries 84
Mean −0.00537
Std Dev 0.7937

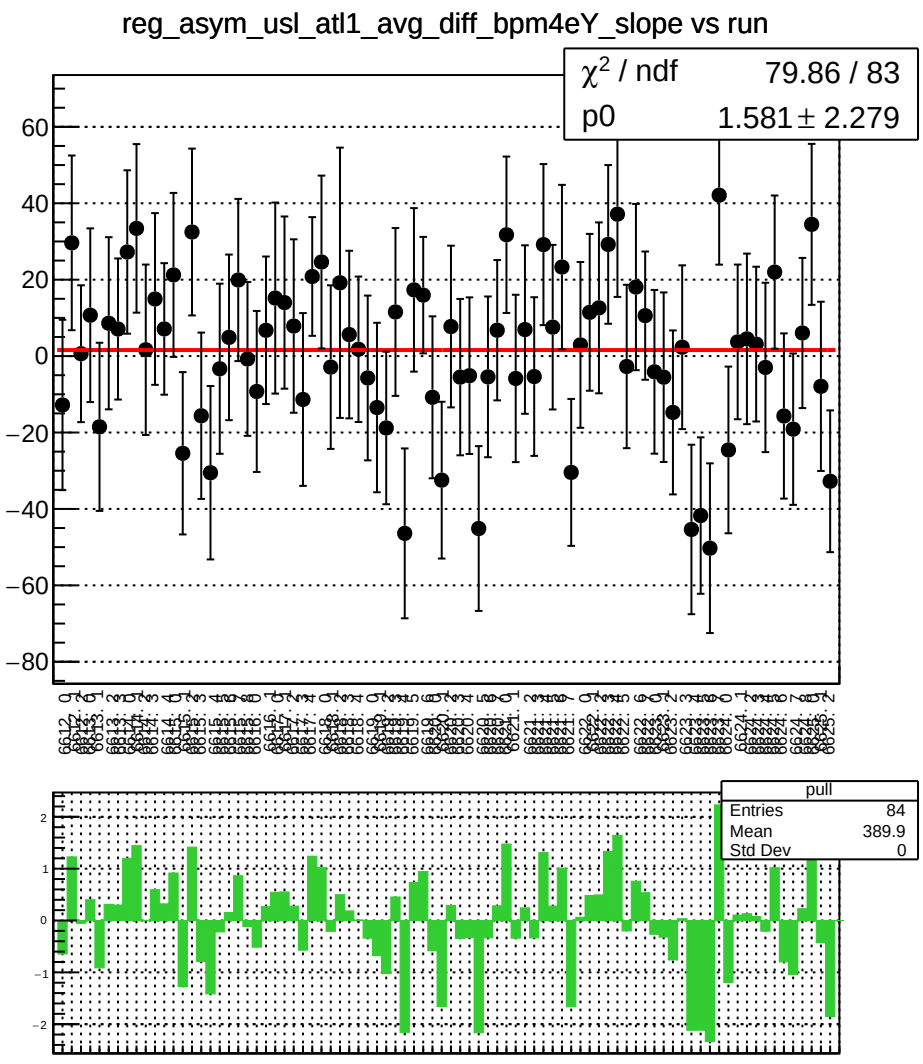

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 89.79 / 83
p0 −35.97 ± 2.652
pull
Entries 84
Mean −198
Std Dev 0

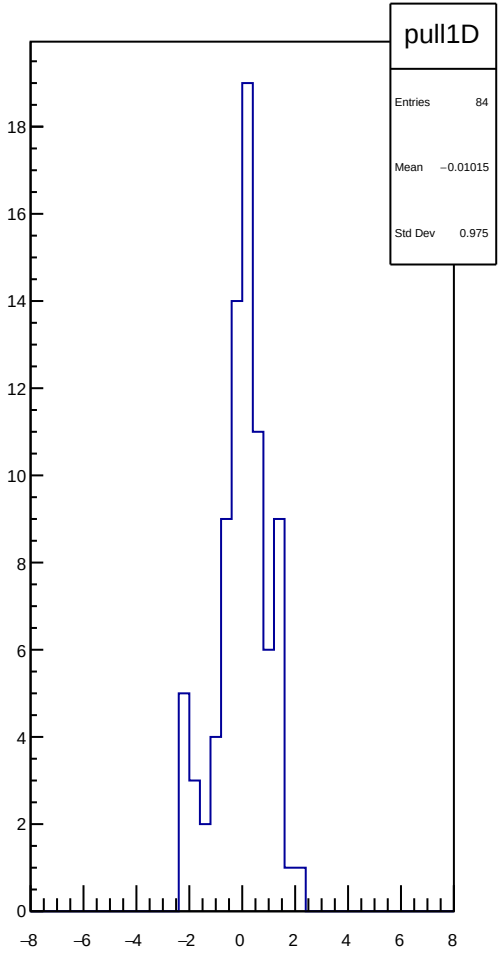

pull1D
Entries 84
Mean 0.003765
Std Dev 1.034

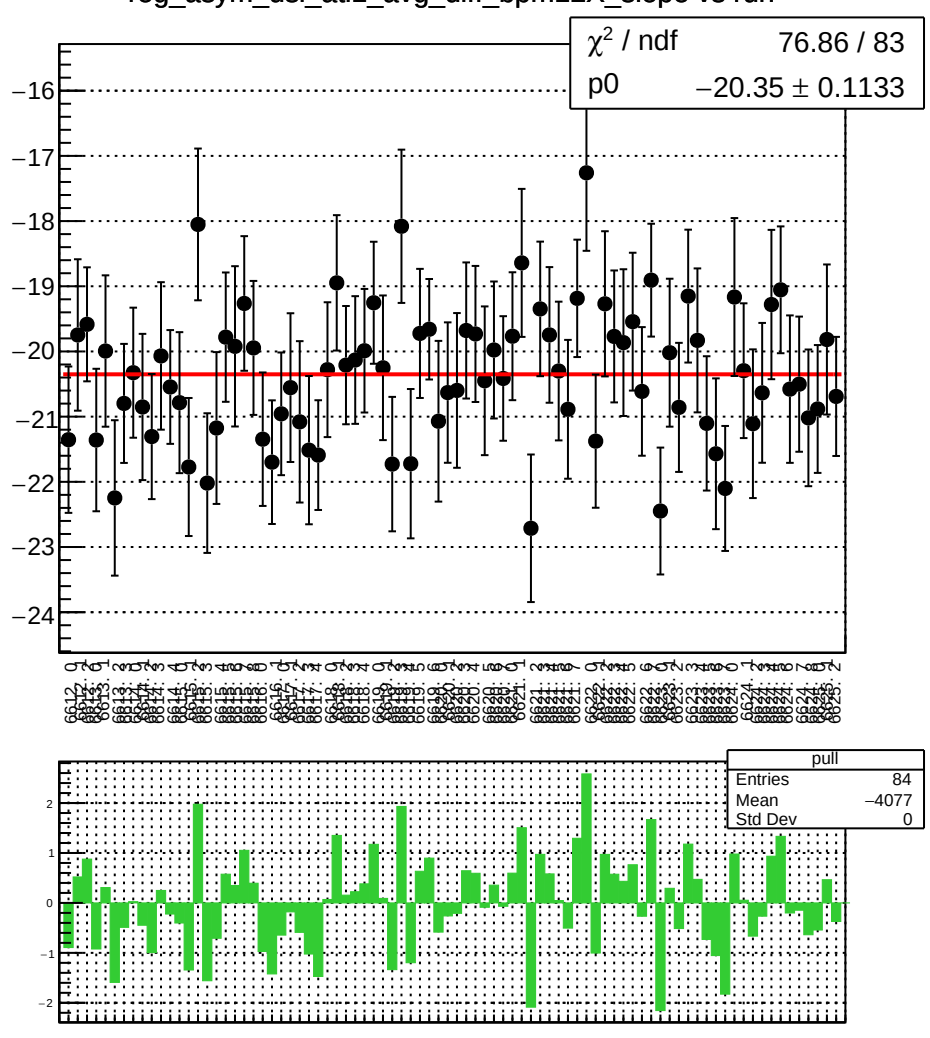

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 83.74 / 83
p0 5.949 ± 1.933
pull
Entries 84
Mean 1169
Std Dev 0
pull1D
Entries 84
Mean 0.00253
Std Dev 0.9985

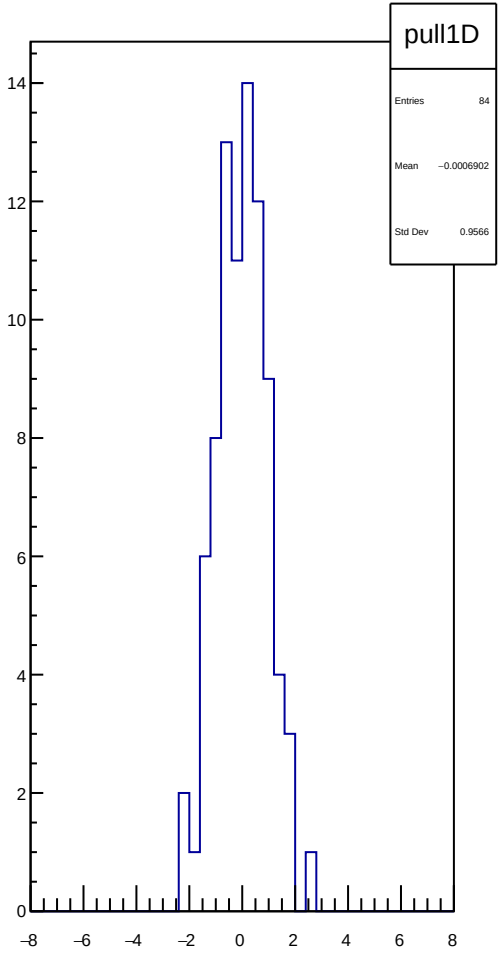

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 89.39 / 83
p0 −33.96 ± 2.728
pull
Entries 84
Mean −282.3
Std Dev 0

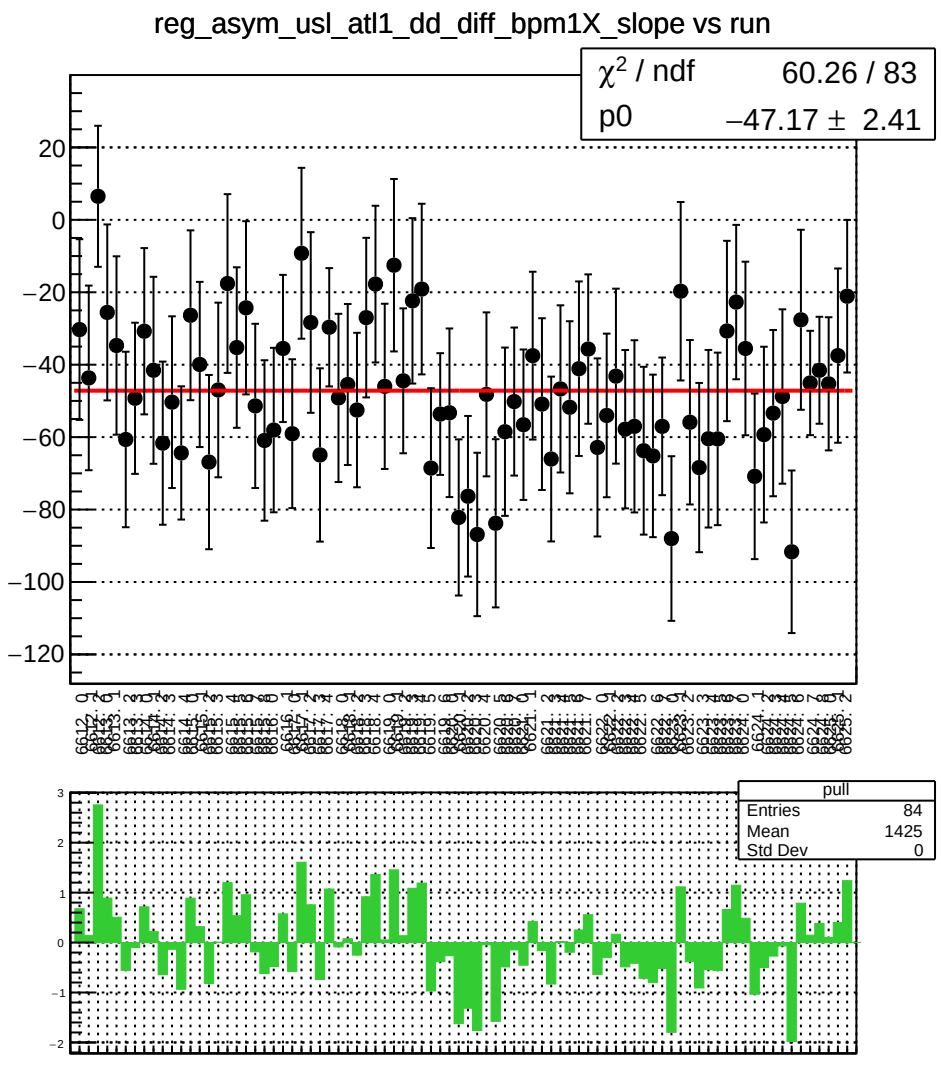

pull1D
Entries 84
Mean −0.002976
Std Dev 1.032

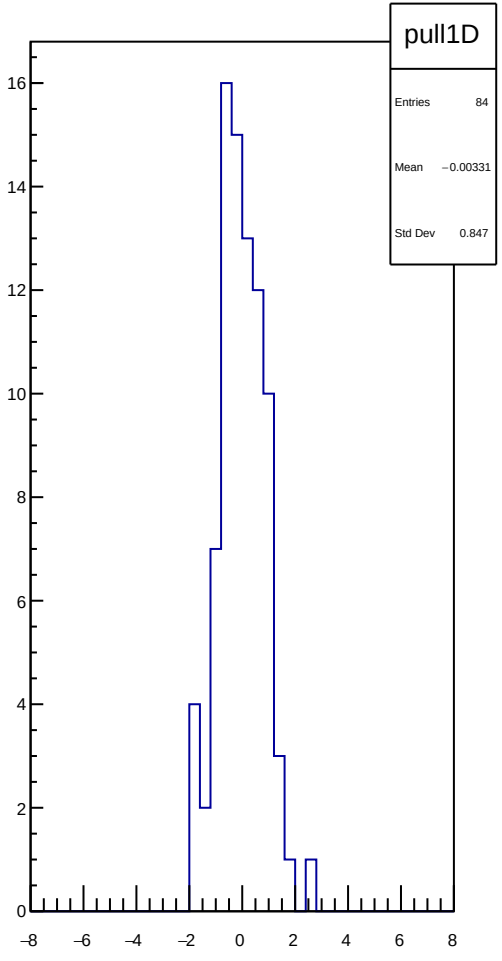

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.86 / 83
p0 1.581 ± 2.279
pull
Entries 84
Mean 389.9
Std Dev 0

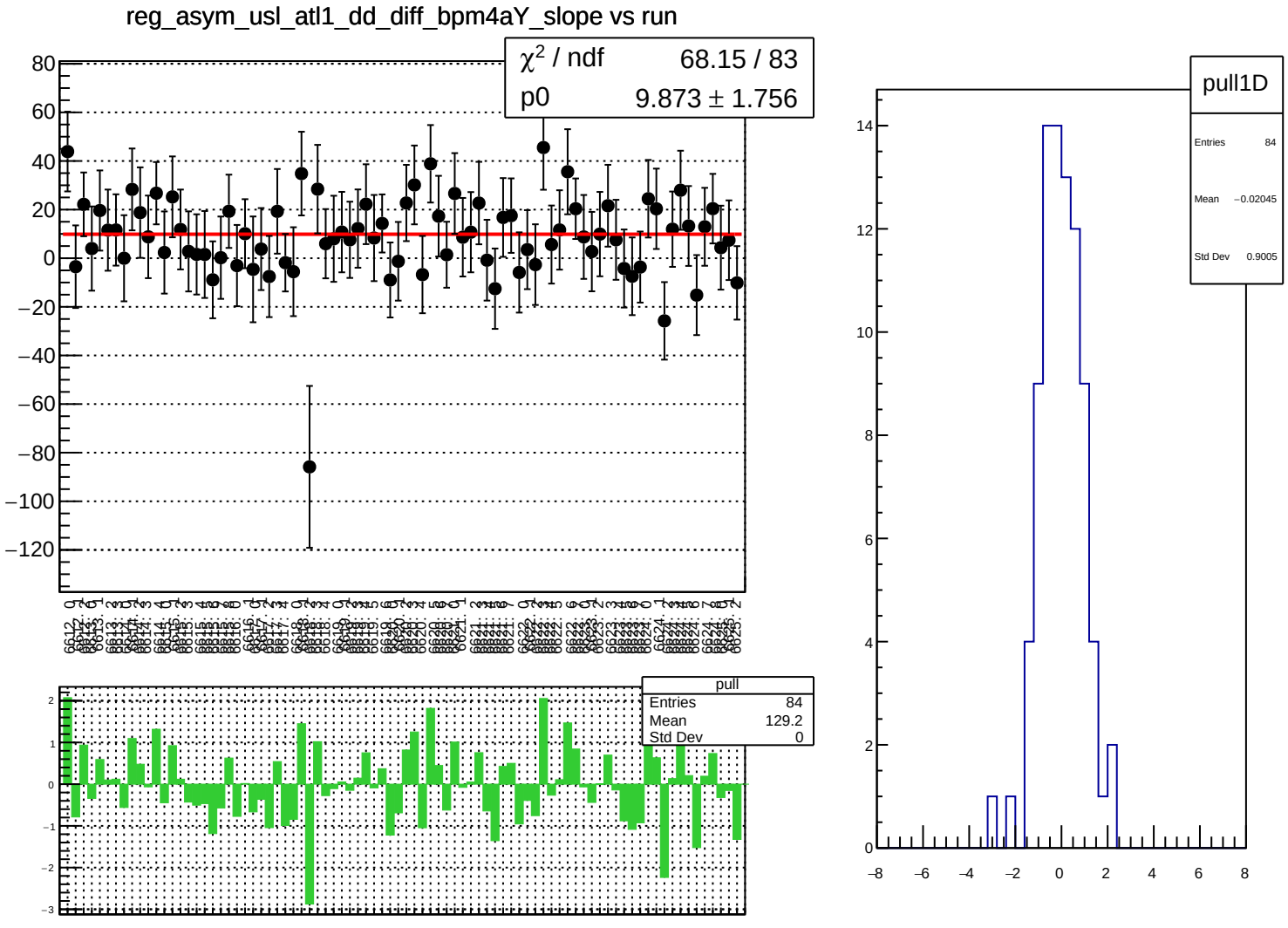

pull1D
Entries 84
Mean −0.01015
Std Dev 0.975

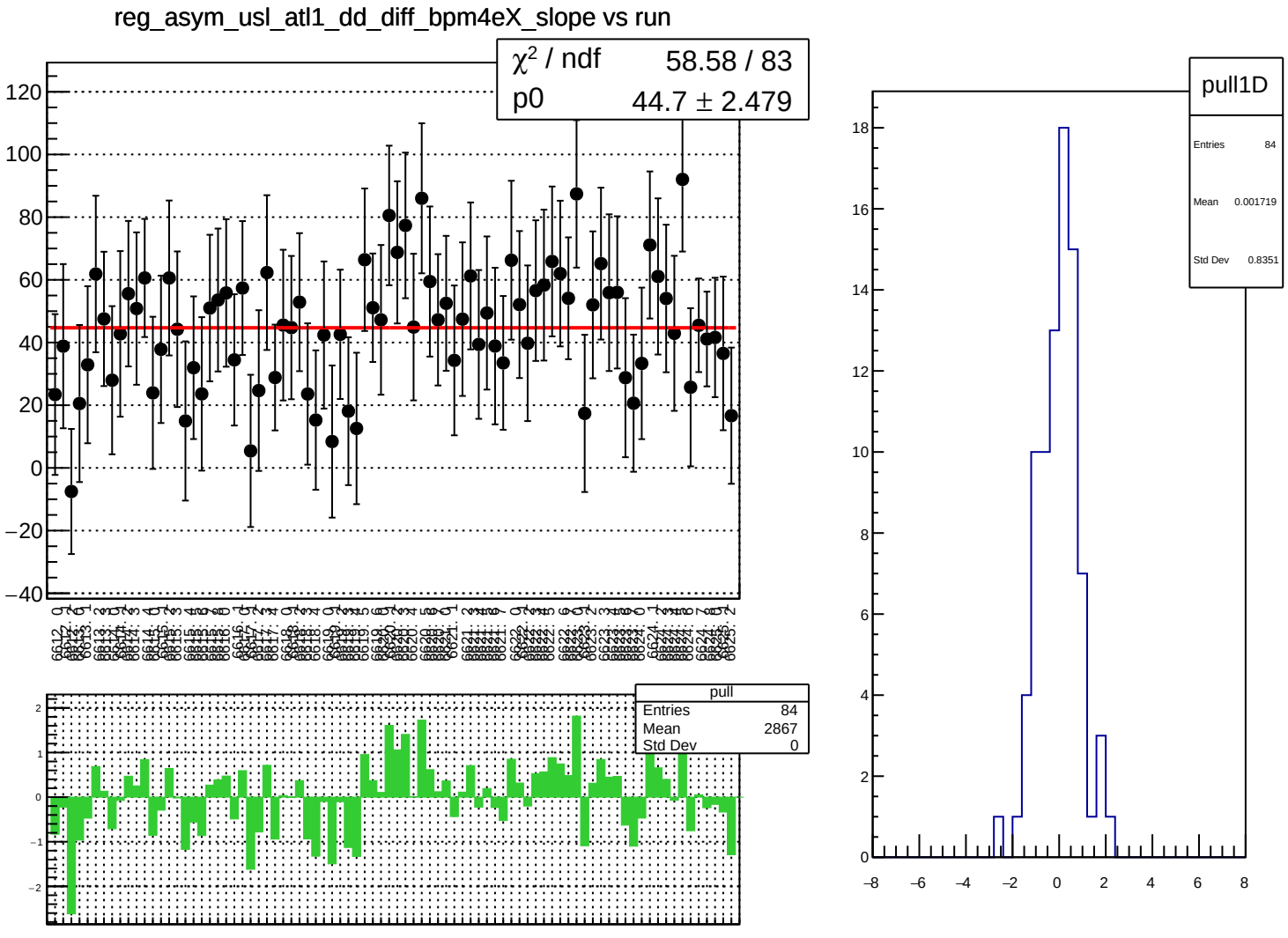

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 76.86 / 83
p0 −20.35 ± 0.1133
pull
Entries 84
Mean −4077
Std Dev 0

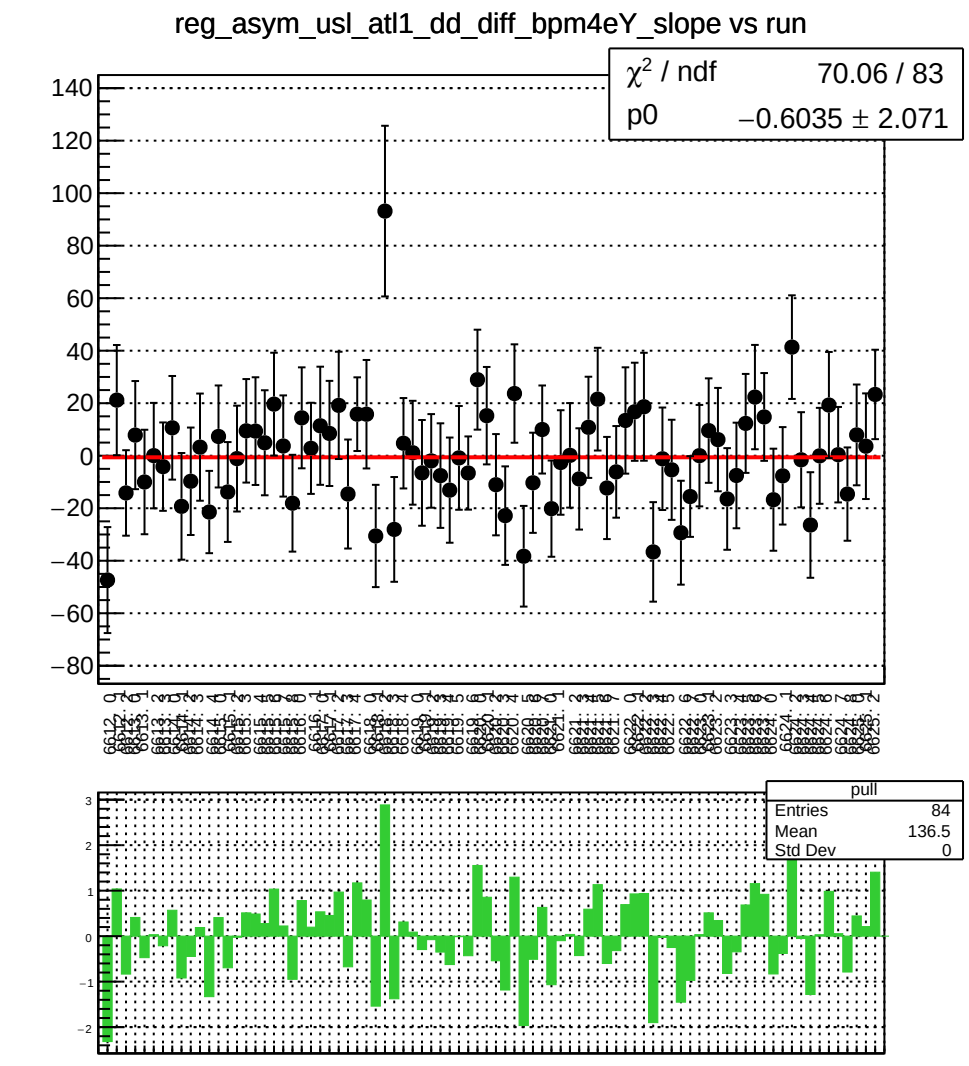

pull1D
Entries 84
Mean −0.0006902
Std Dev 0.9566

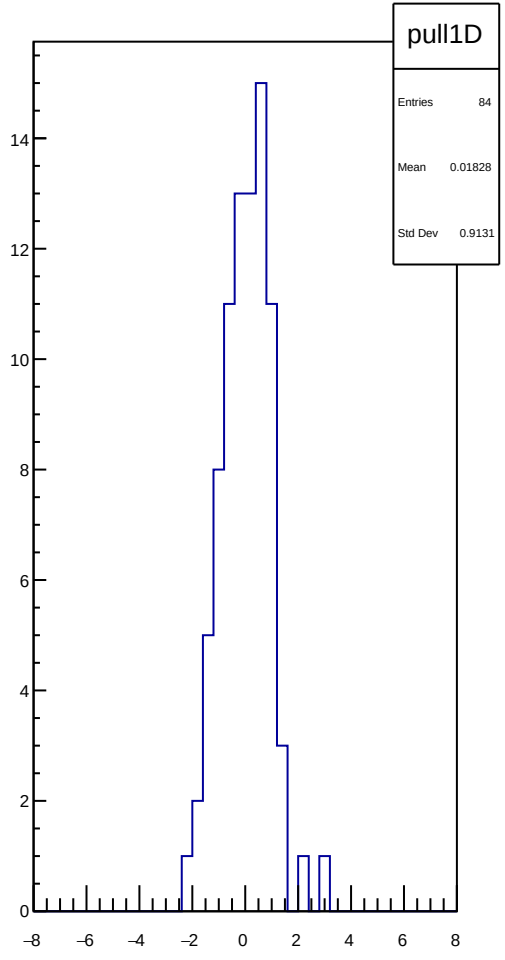

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 60.26 / 83
p0 −47.17 ± 2.41
pull
Entries 84
Mean 1425
Std Dev 0

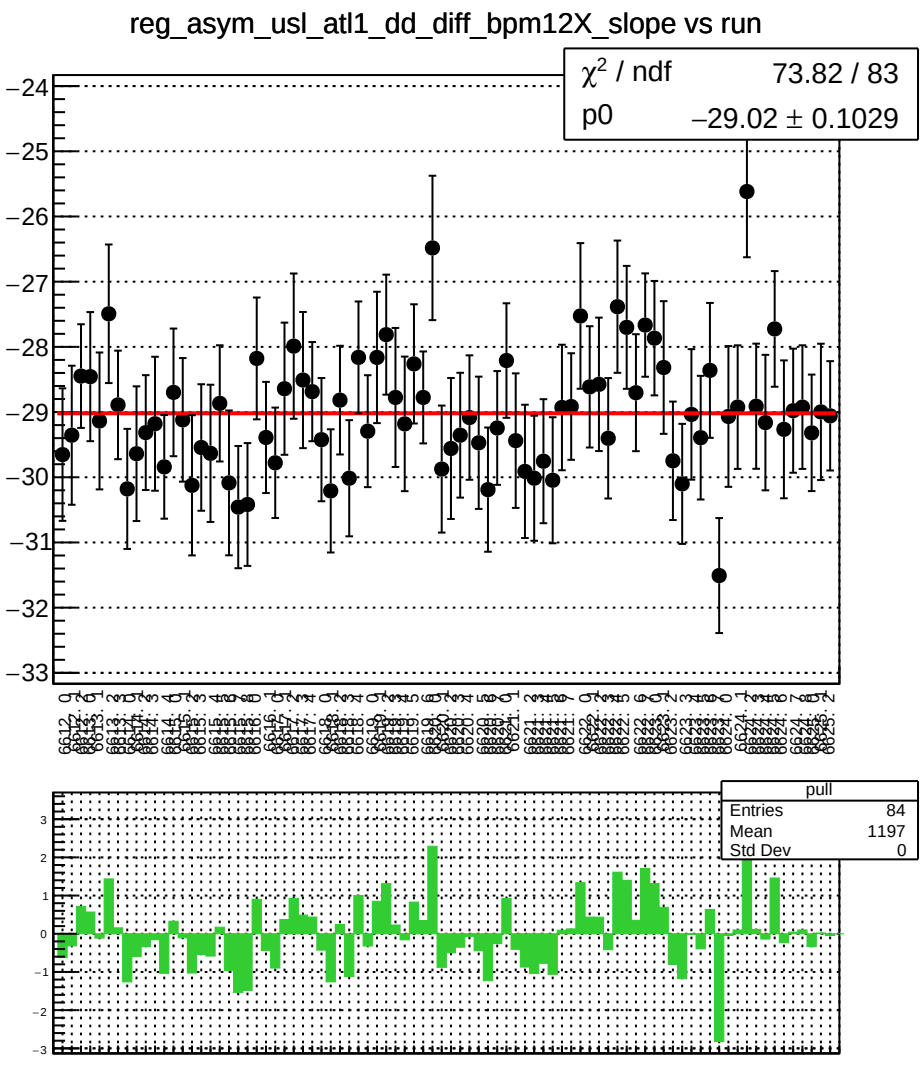

pull1D
Entries 84
Mean −0.00331
Std Dev 0.847

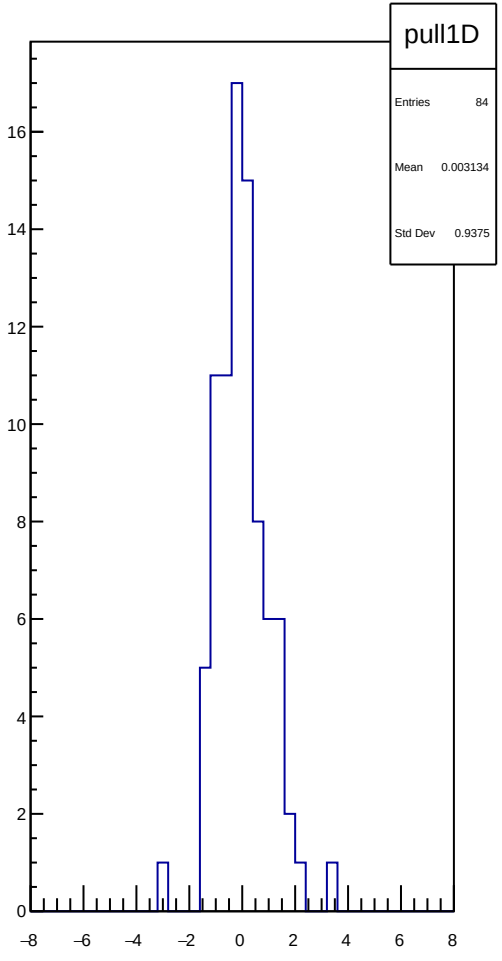

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 68.15 / 83
p0 9.873 ± 1.756
pull
Entries 84
Mean 129.2
Std Dev 0
pull1D
Entries 84
Mean −0.02045
Std Dev 0.9005

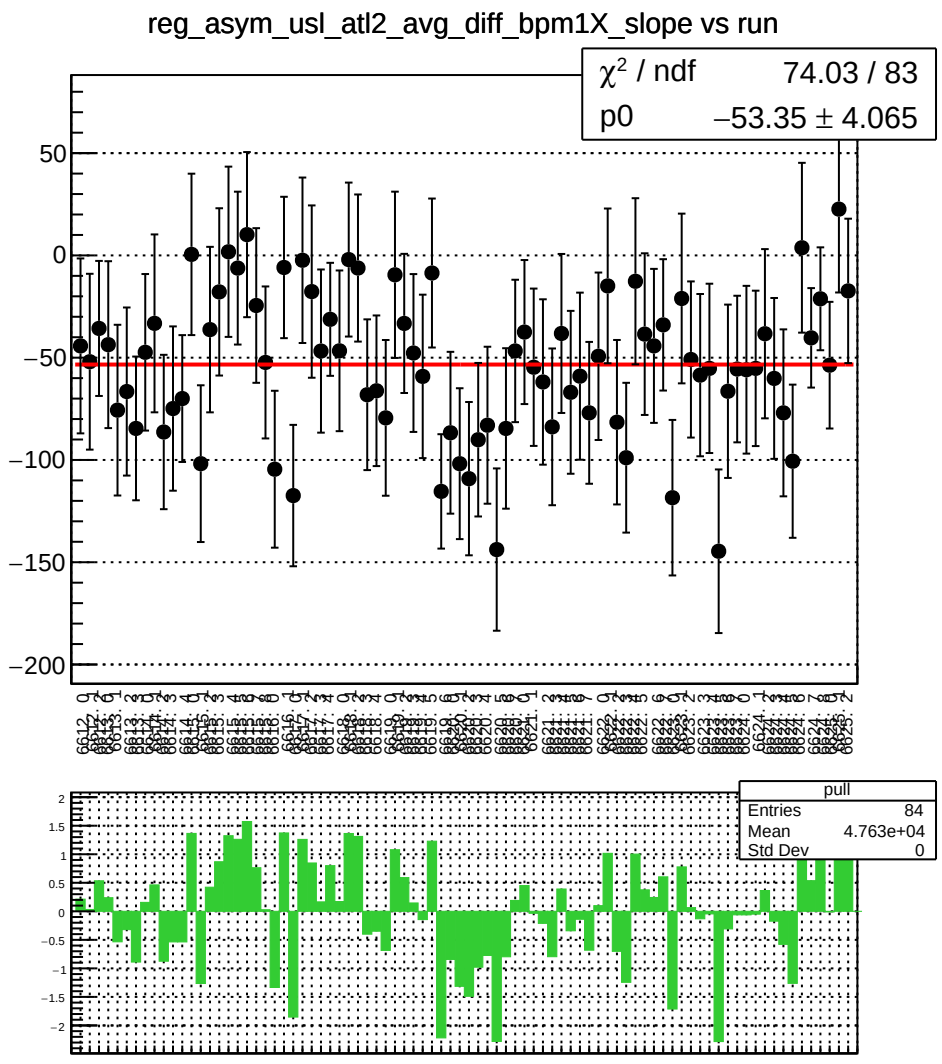

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.58 / 83
p0 44.7 ± 2.479
pull
Entries 84
Mean 2867
Std Dev 0
pull1D
Entries 84
Mean 0.001719
Std Dev 0.8351

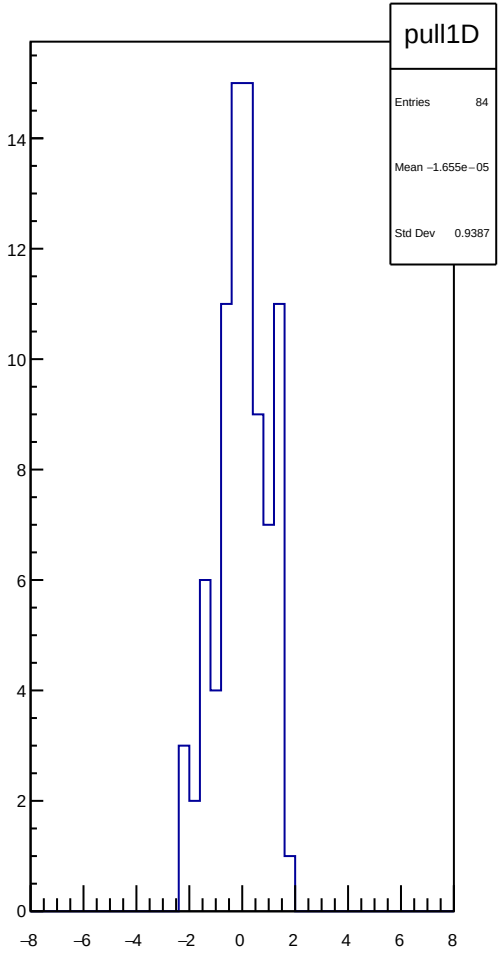

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 70.06 / 83
p0 −0.6035 ± 2.071
pull
Entries 84
Mean 136.5
Std Dev 0

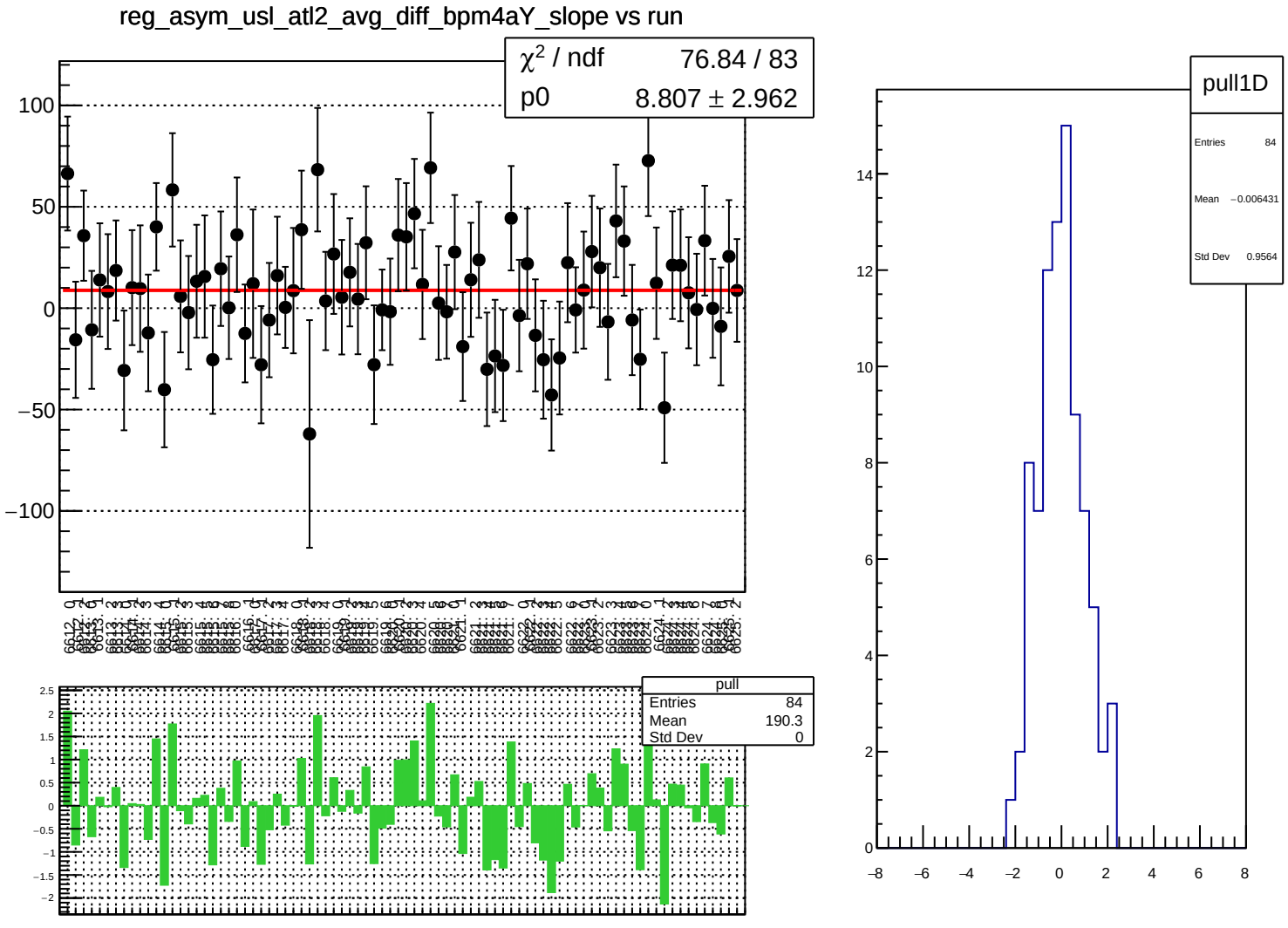

pull1D
Entries 84
Mean 0.01828
Std Dev 0.9131

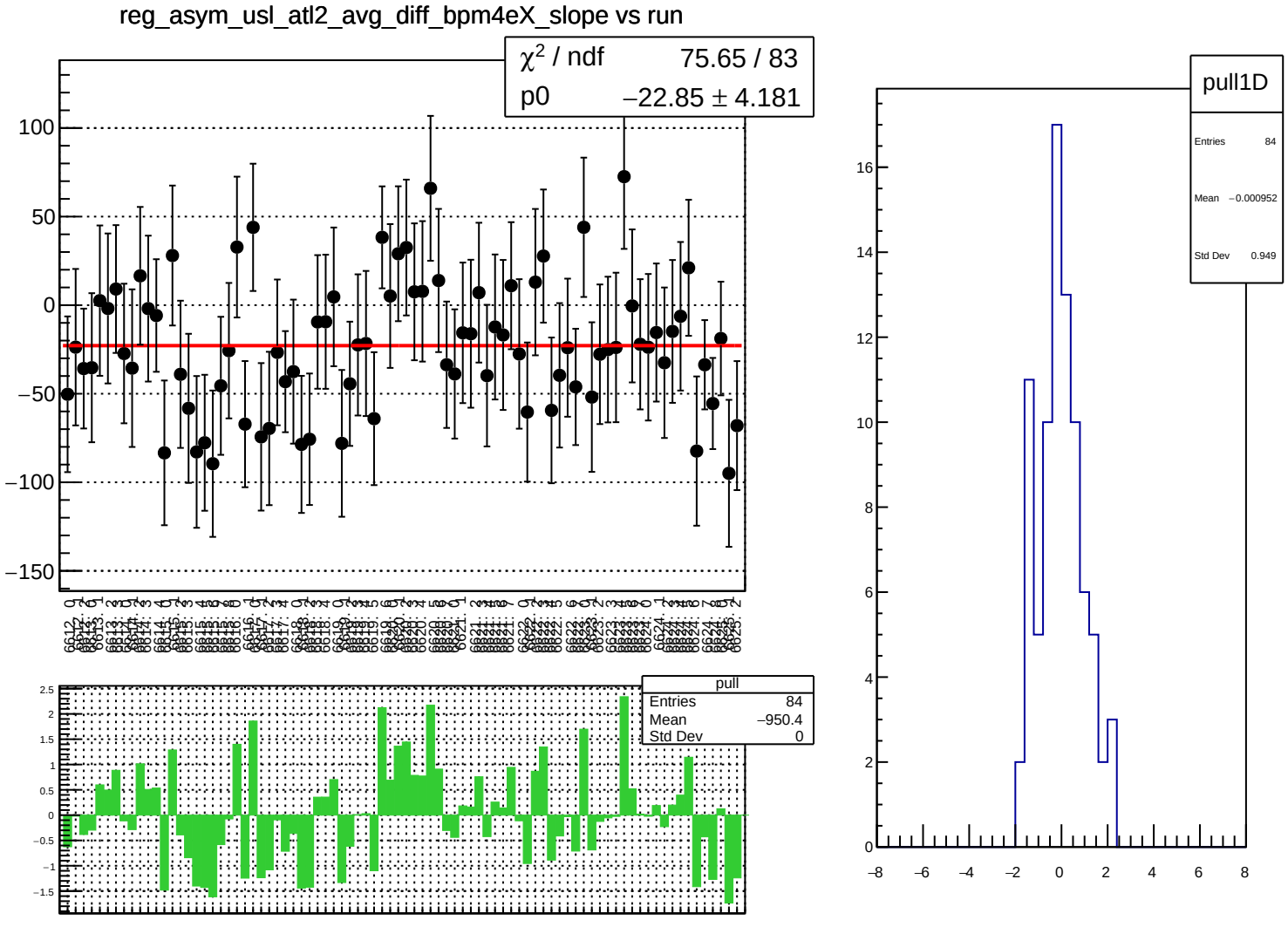

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 73.82 / 83
p0 −29.02 ± 0.1029
pull
Entries 84
Mean 1197
Std Dev 0

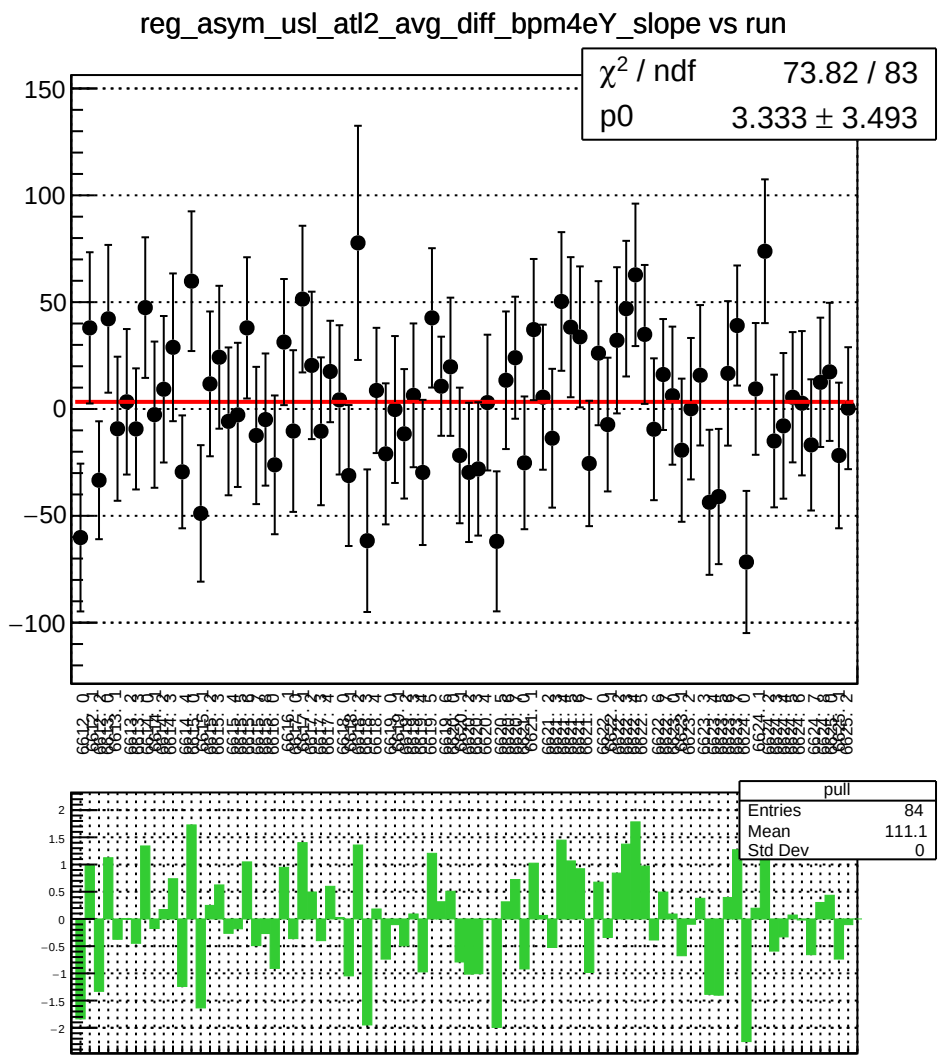

pull1D
Entries 84
Mean 0.003134
Std Dev 0.9375

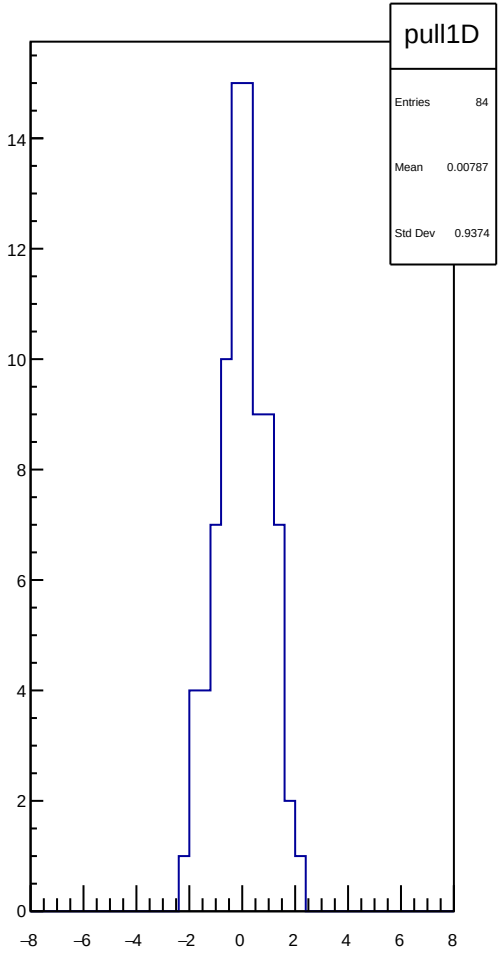

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 74.03 / 83
p0 −53.35 ± 4.065
pull
Entries 84
Mean 4.763e+04
Std Dev 0

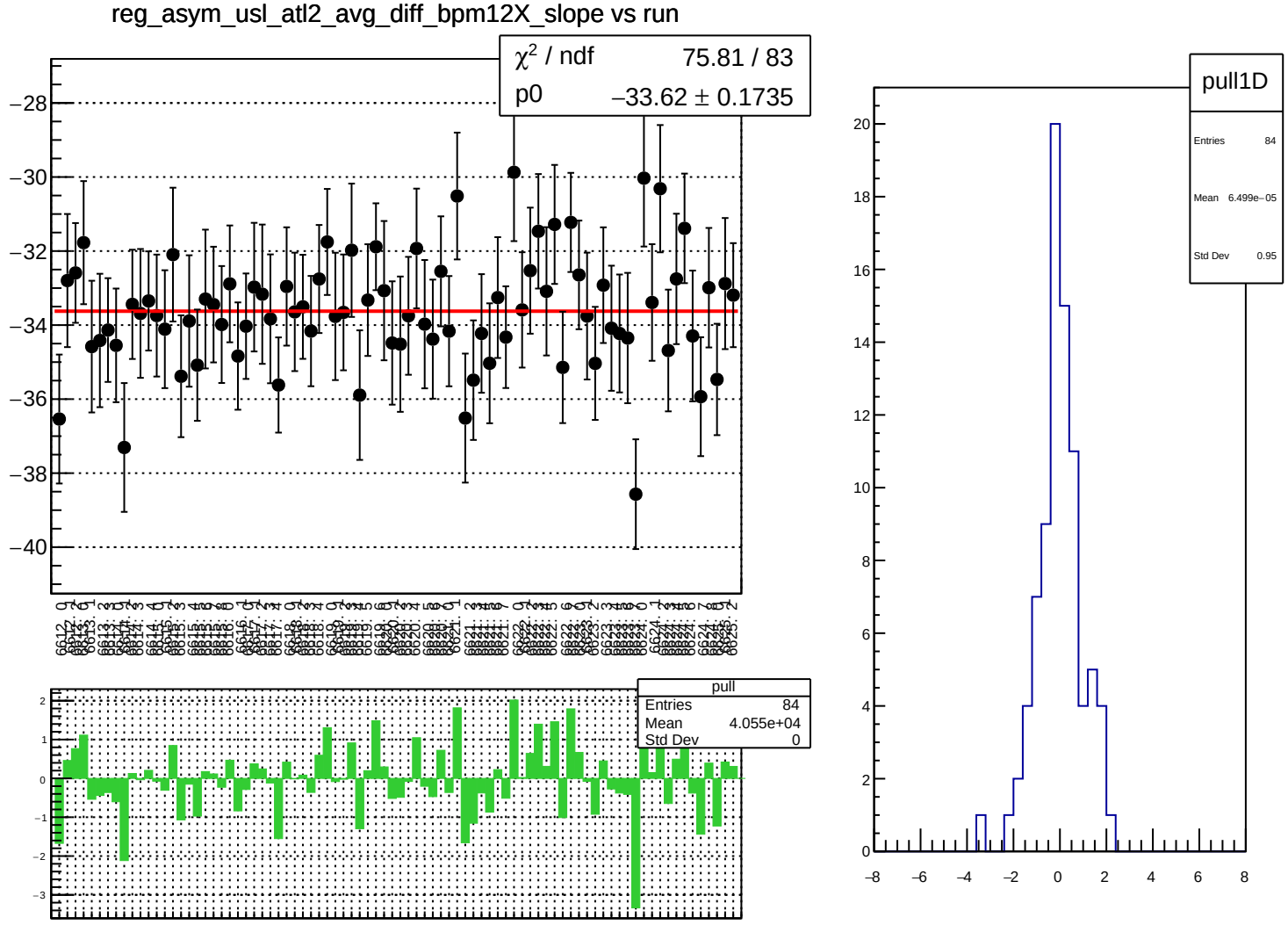

pull1D
Entries 84
Mean −1.655e−05
Std Dev 0.9387

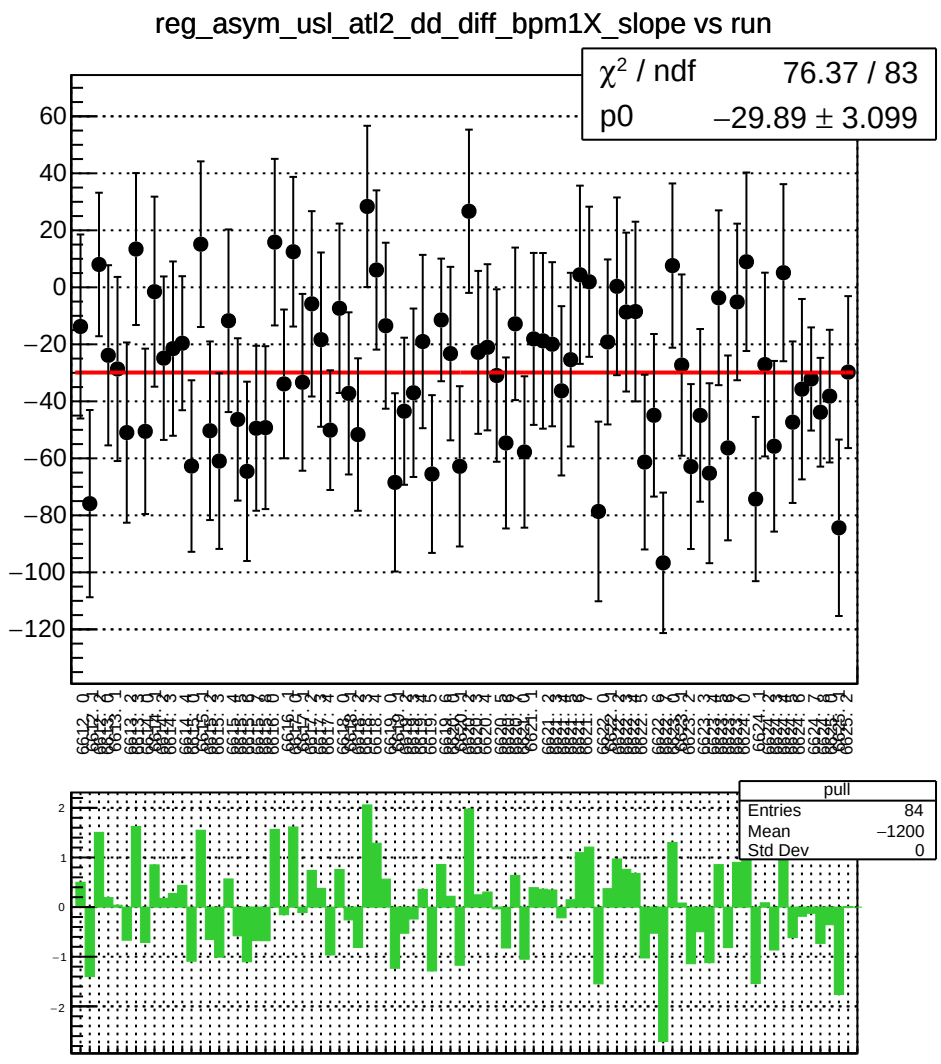

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 76.84 / 83
p0 8.807 ± 2.962
pull
Entries 84
Mean 190.3
Std Dev 0
pull1D
Entries 84
Mean −0.006431
Std Dev 0.9564

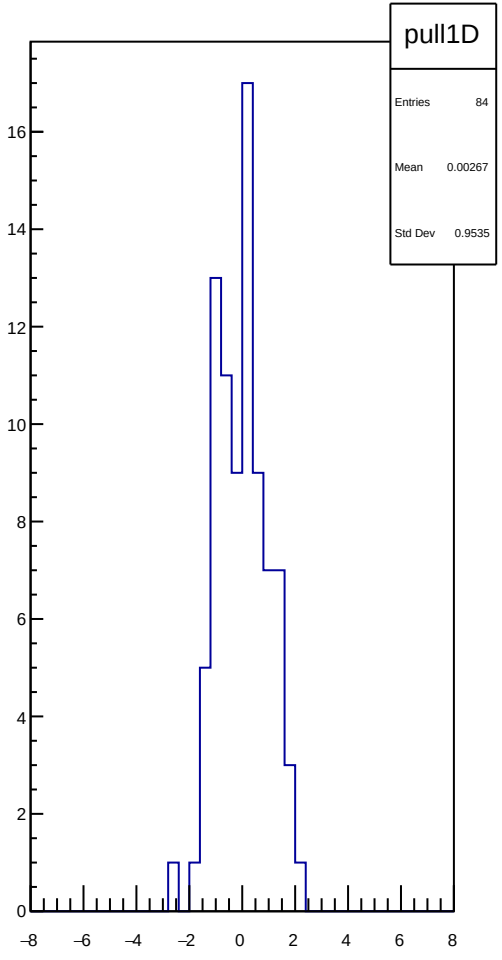

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 75.65 / 83
p0 −22.85 ± 4.181
pull
Entries 84
Mean −950.4
Std Dev 0
pull1D
Entries 84
Mean −0.000952
Std Dev 0.949

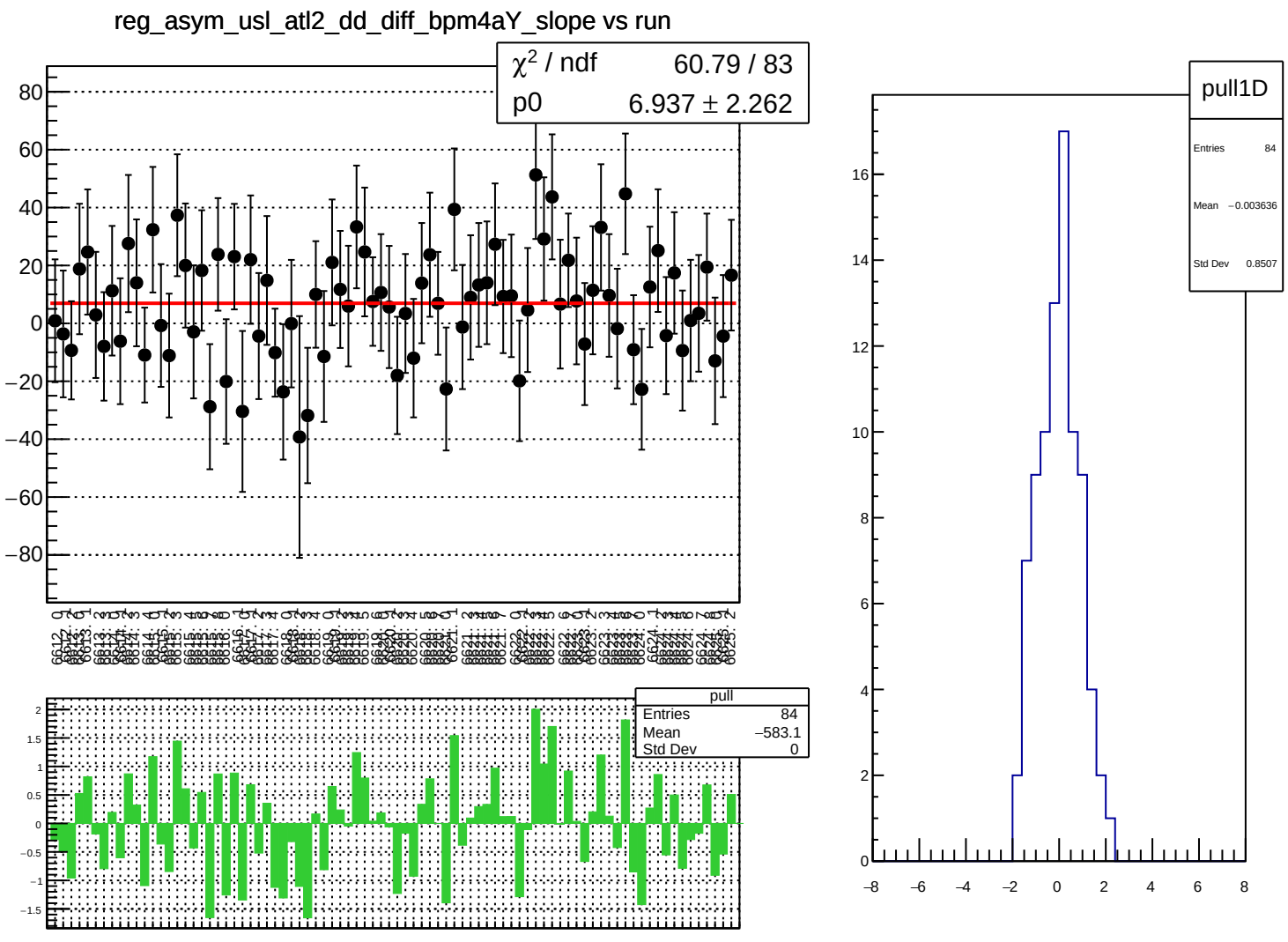

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 73.82 / 83
p0 3.333 ± 3.493
150
100
50
0
−50
−100
pull
Entries 84
Mean 111.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

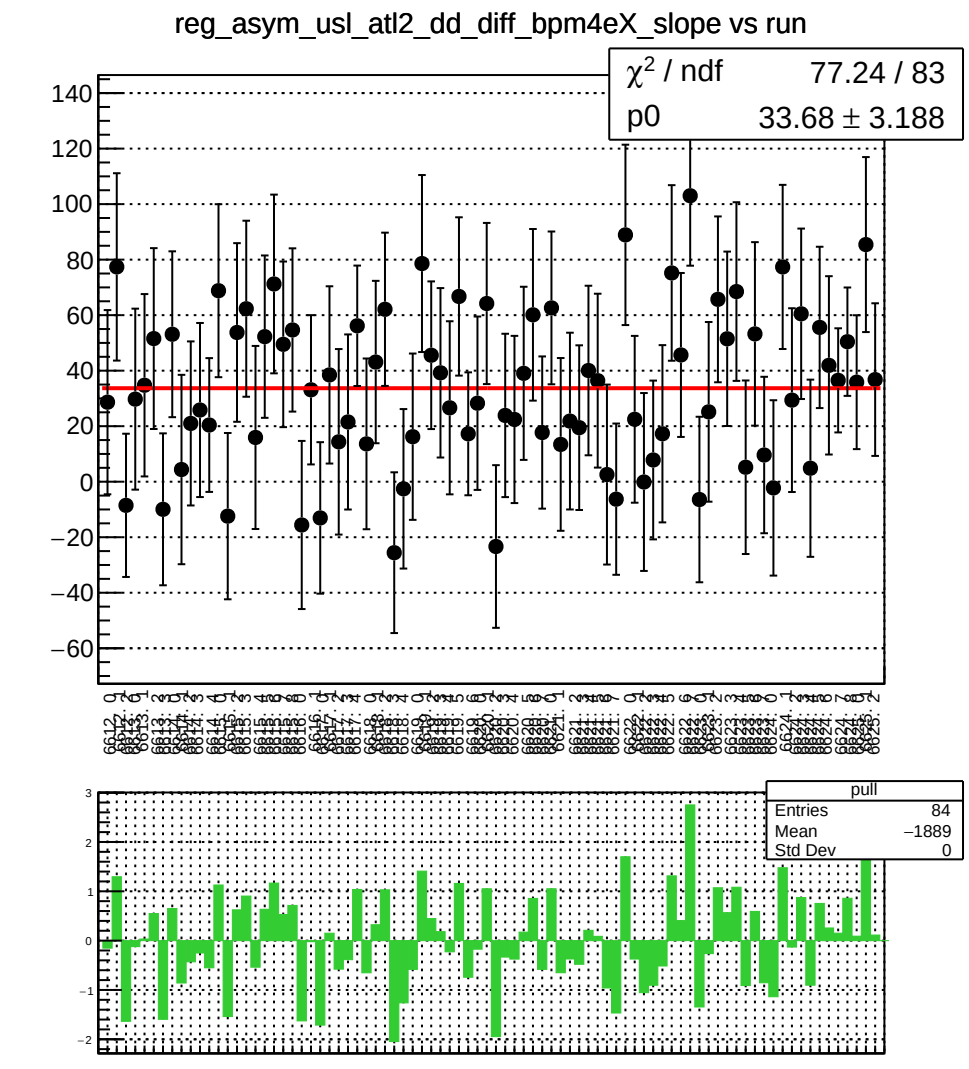

pull1D
Entries 84
Mean 0.00787
Std Dev 0.9374
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

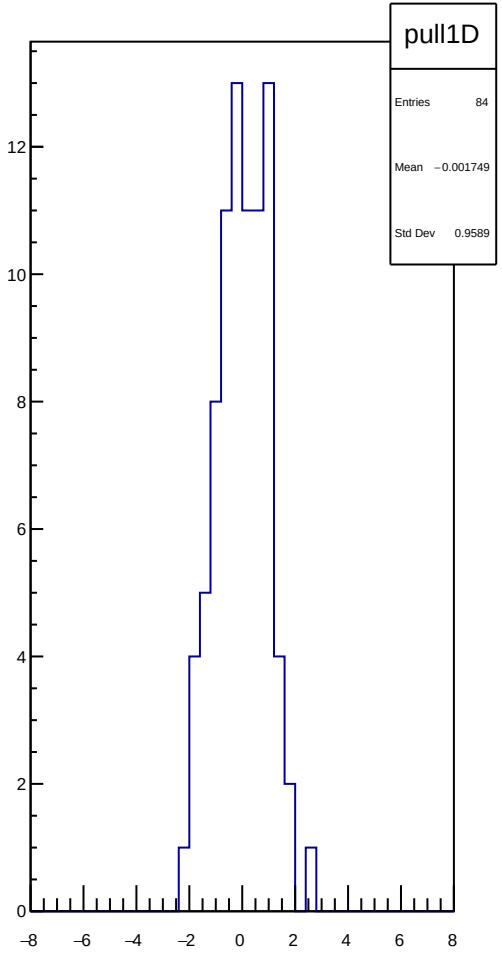

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 75.81 / 83
p0 −33.62 ± 0.1735
pull
Entries 84
Mean 4.055e+04
Std Dev 0
pull1D
Entries 84
Mean 6.499e−05
Std Dev 0.95

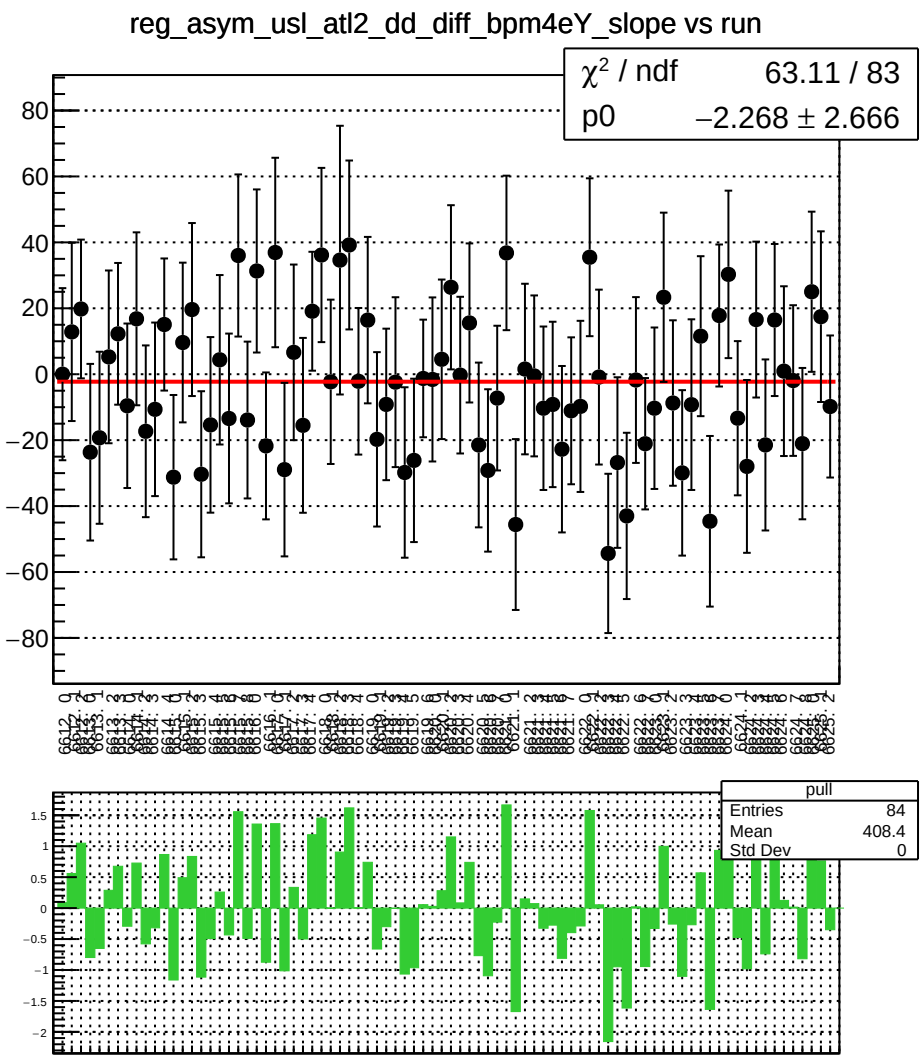

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 76.37 / 83
p0 −29.89 ± 3.099
pull
Entries 84
Mean −1200
Std Dev 0

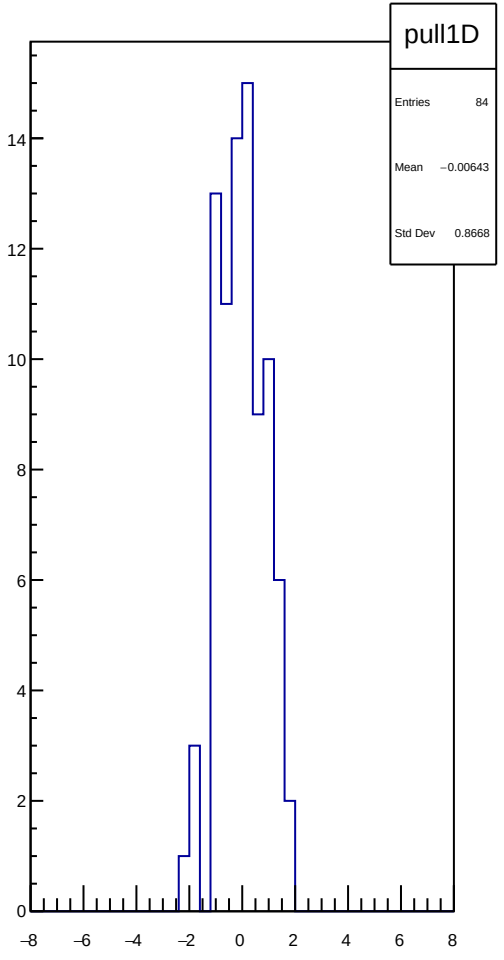

pull1D
Entries 84
Mean 0.00267
Std Dev 0.9535

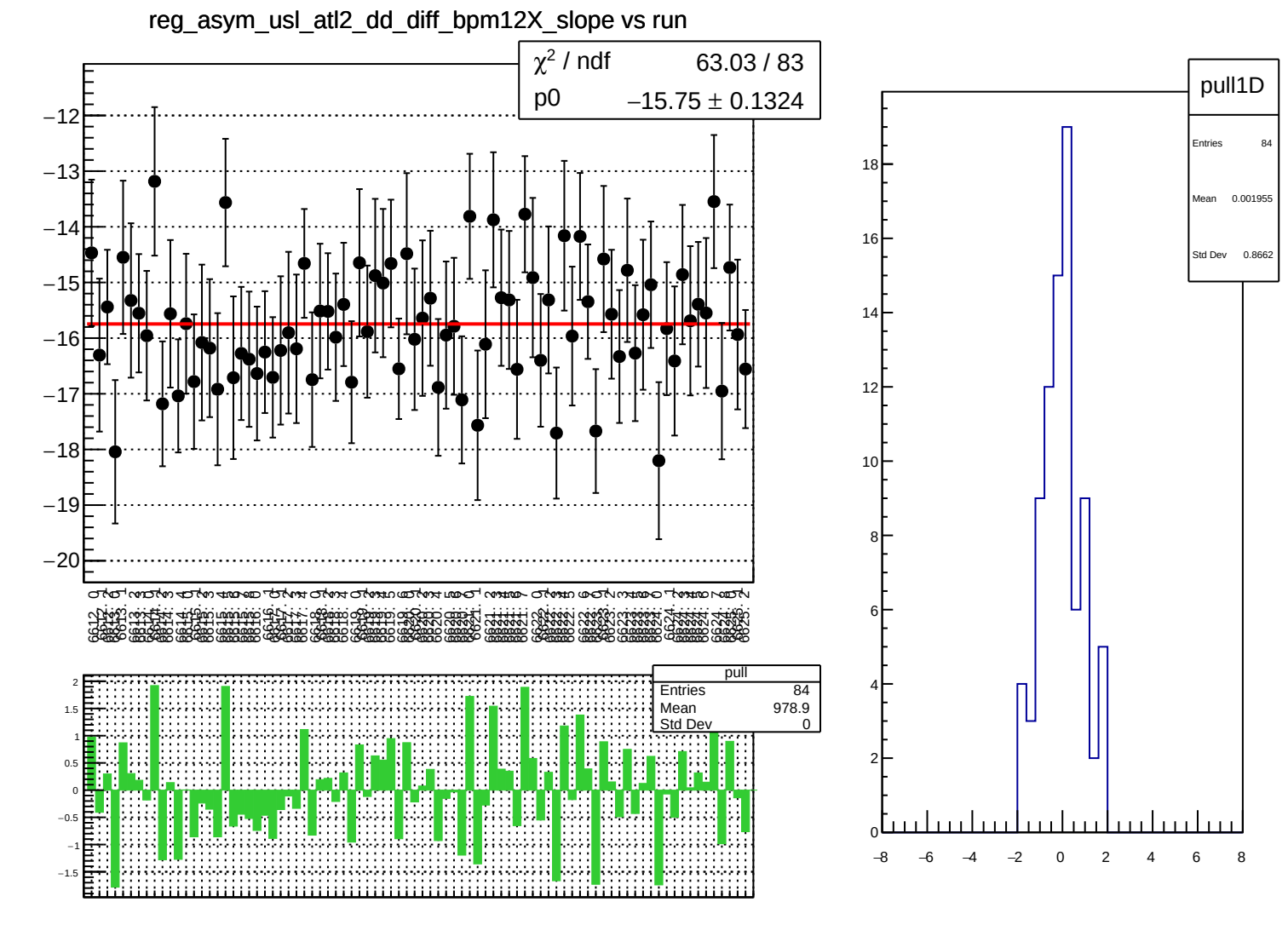

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.79 / 83
p0 6.937 ± 2.262
pull
Entries 84
Mean −583.1
Std Dev 0
pull1D
Entries 84
Mean −0.003636
Std Dev 0.8507

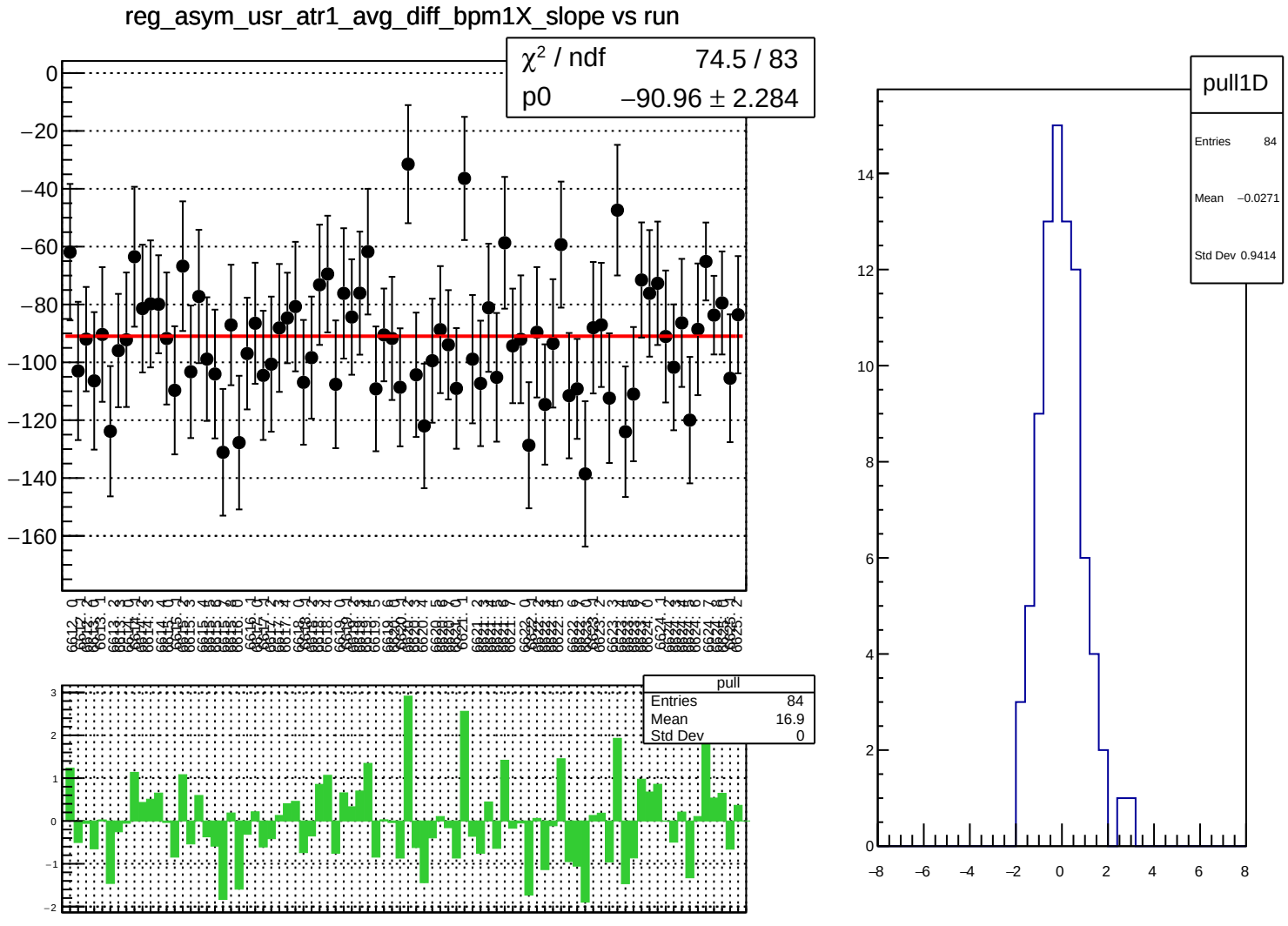

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 77.24 / 83
p0 33.68 ± 3.188
pull
Entries 84
Mean −1889
Std Dev 0

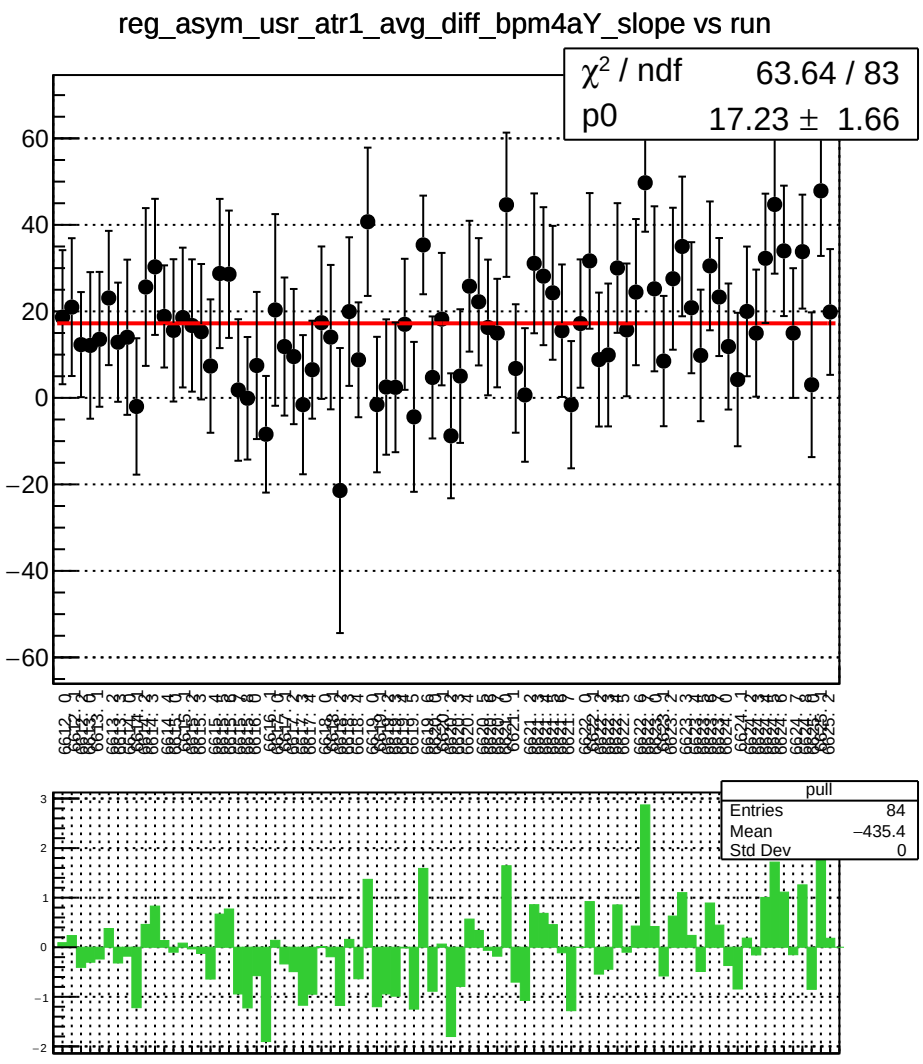

pull1D
Entries 84
Mean −0.001749
Std Dev 0.9589

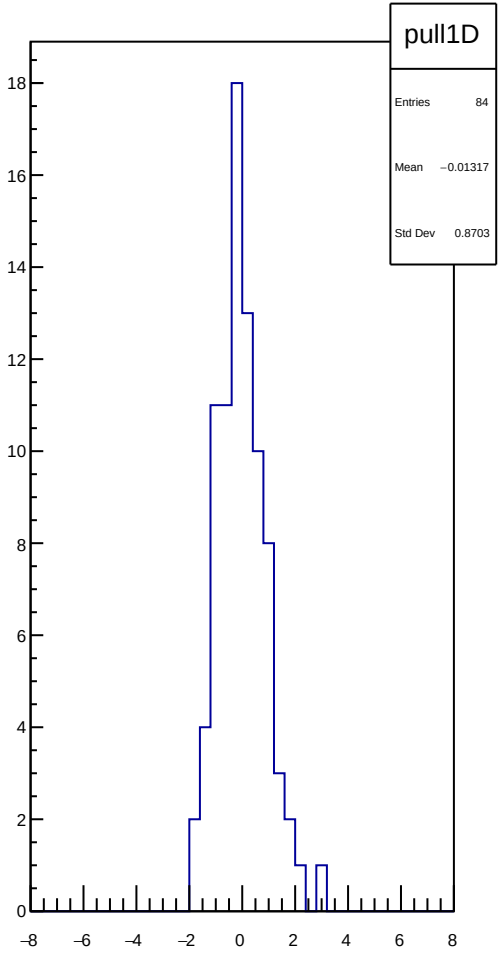

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 63.11 / 83
p0 −2.268 ± 2.666
pull
Entries 84
Mean 408.4
Std Dev 0

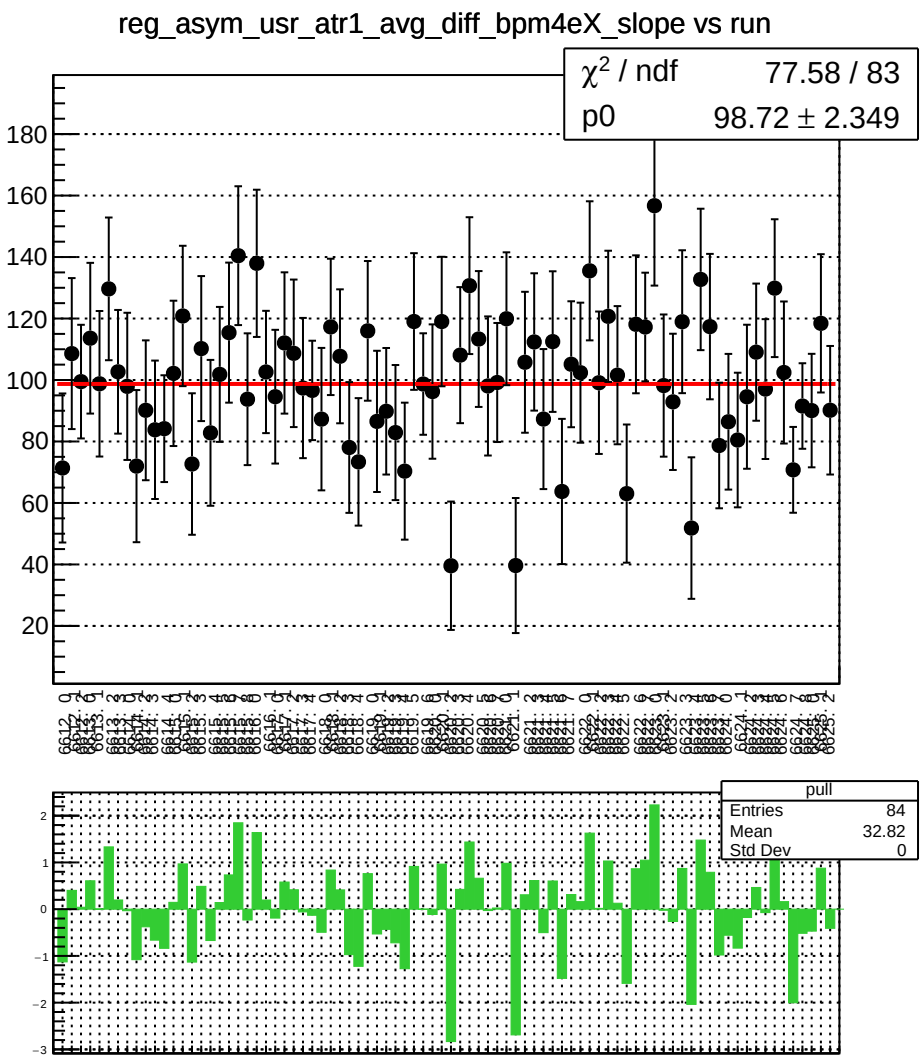

pull1D
Entries 84
Mean −0.00643
Std Dev 0.8668

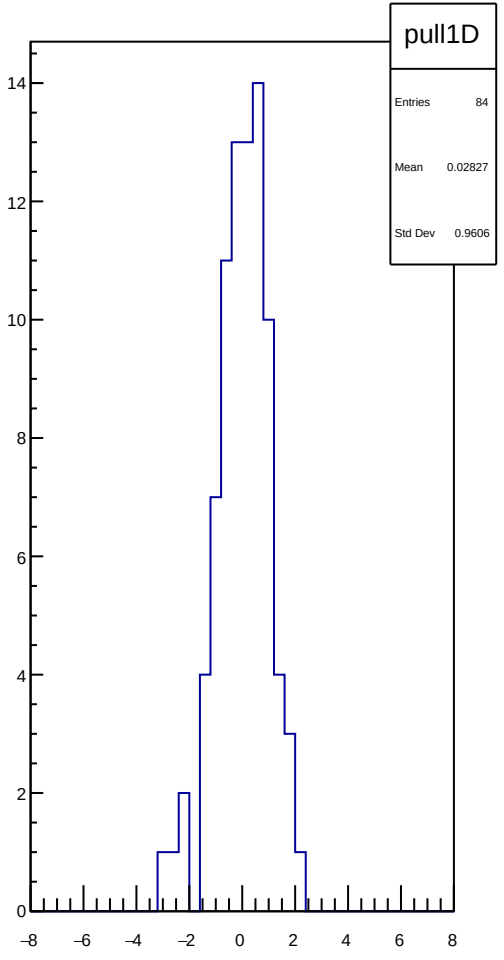

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 63.03 / 83
p0 −15.75 ± 0.1324
pull
Entries 84
Mean 978.9
Std Dev 0
pull1D
Entries 84
Mean 0.001955
Std Dev 0.8662

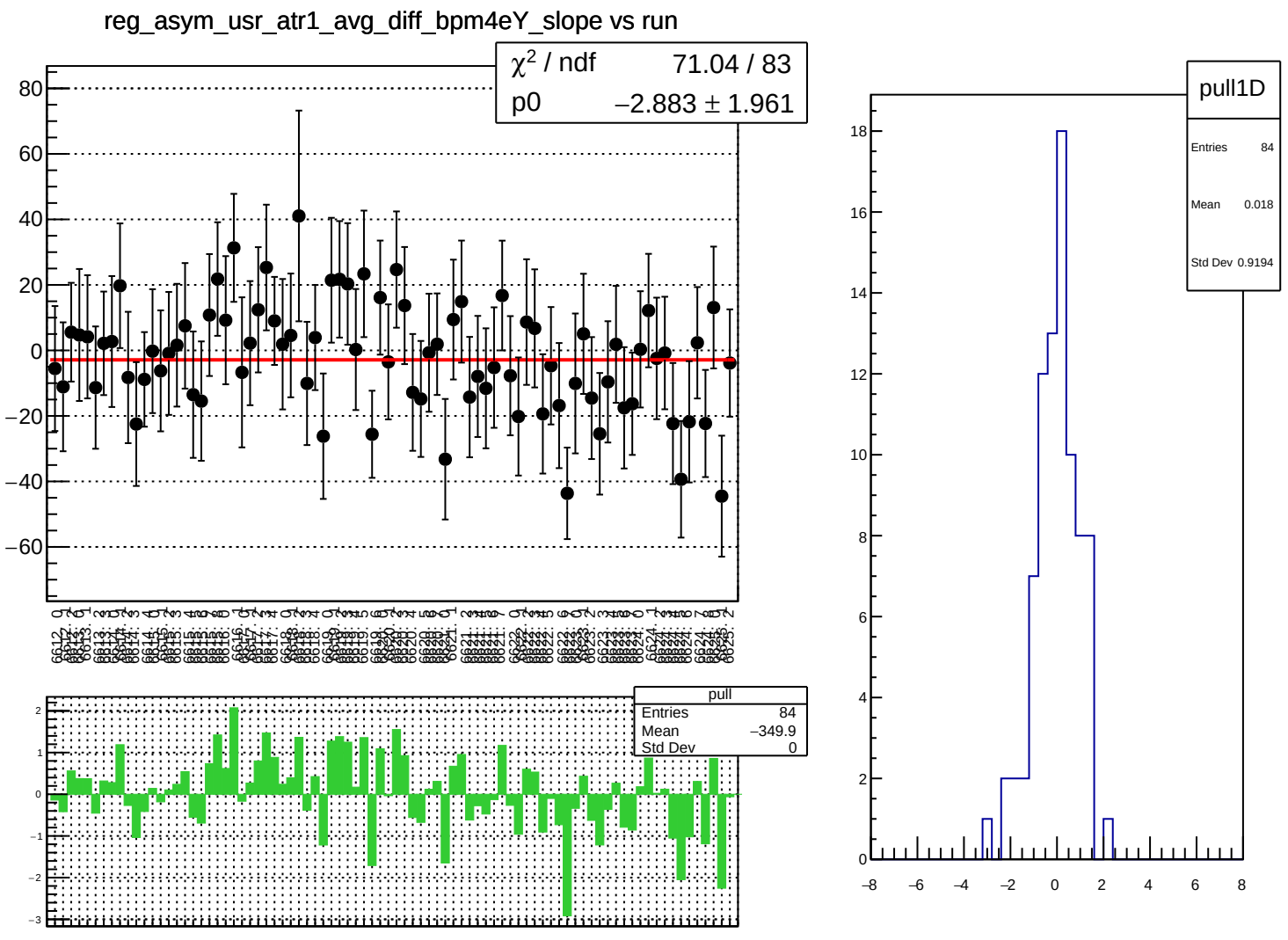

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 74.5 / 83
p0 −90.96 ± 2.284
pull
Entries 84
Mean 16.9
Std Dev 0
pull1D
Entries 84
Mean −0.0271
Std Dev 0.9414

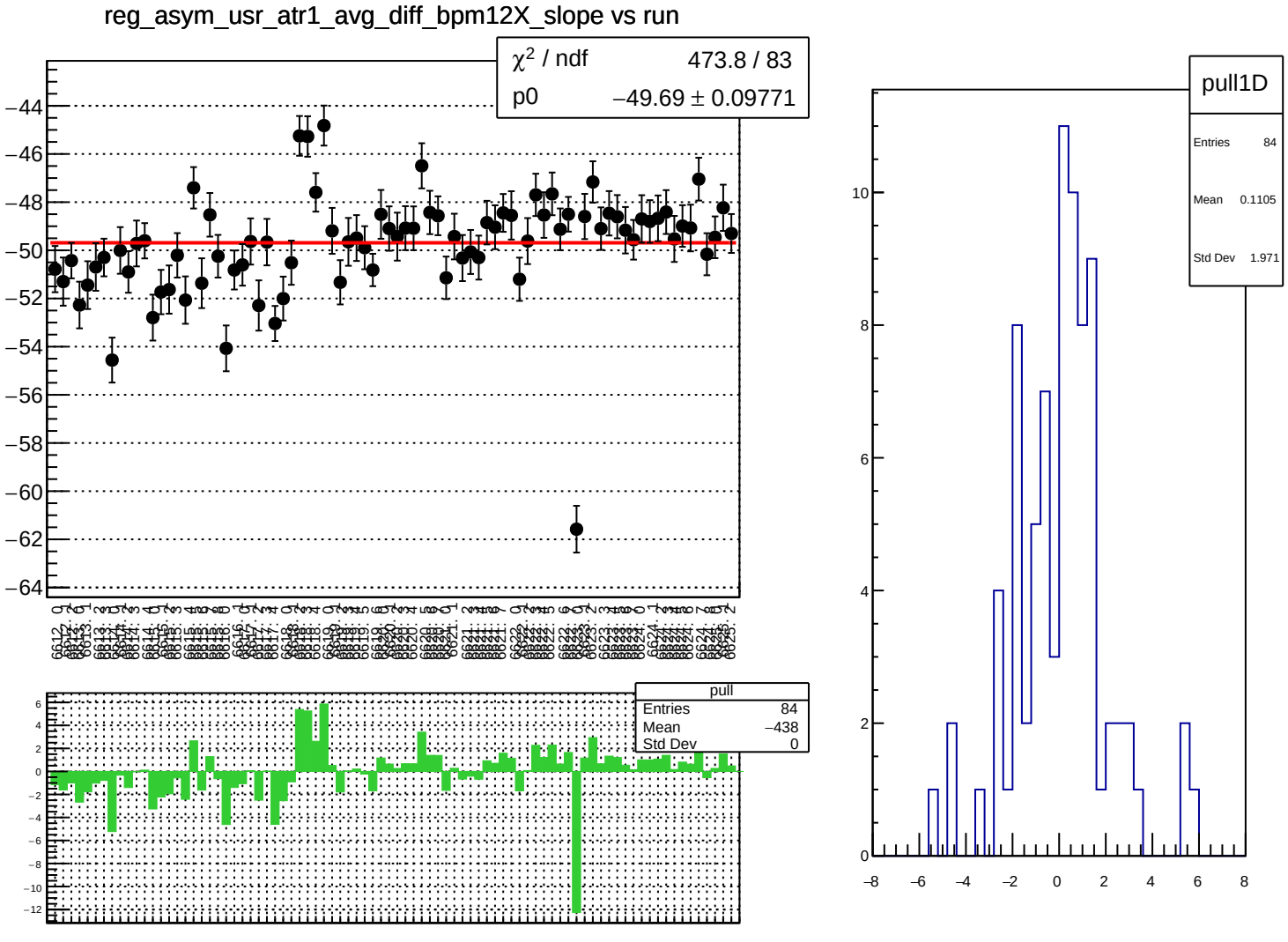

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 63.64 / 83
p0 17.23 ± 1.66
pull
Entries 84
Mean −435.4
Std Dev 0

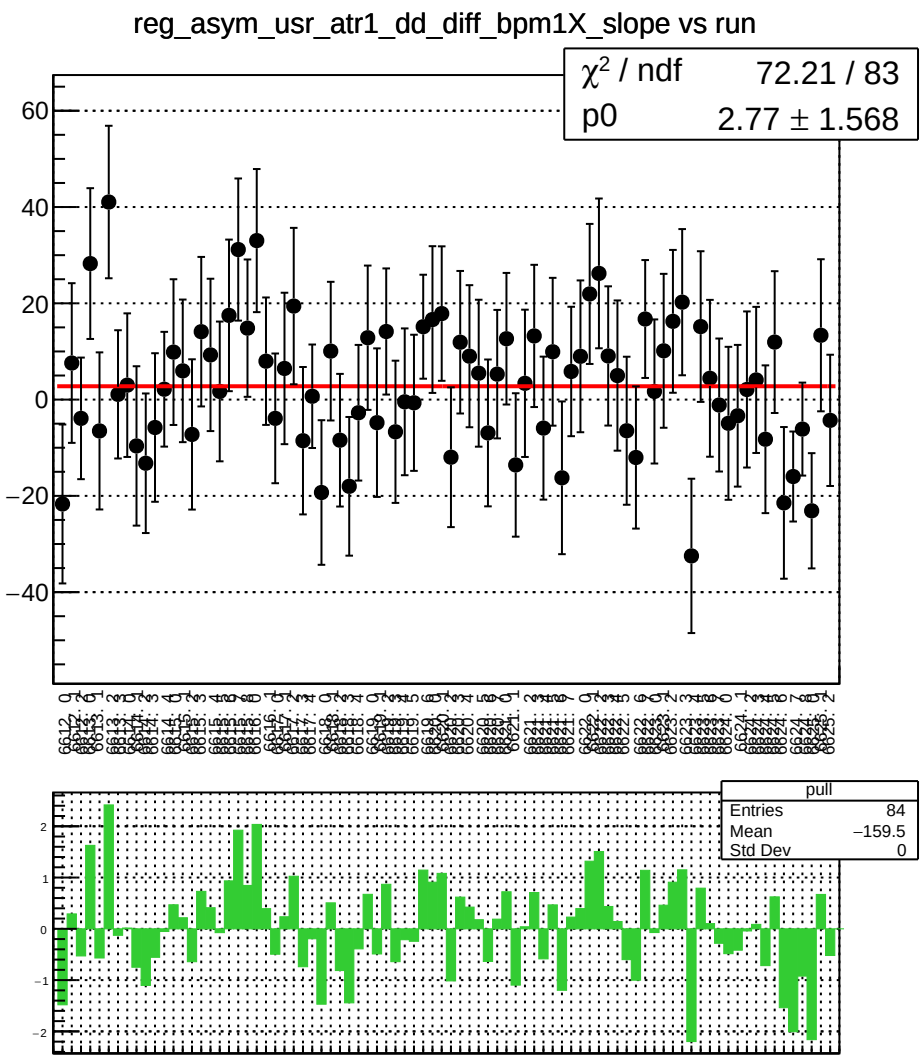

pull1D
Entries 84
Mean −0.01317
Std Dev 0.8703

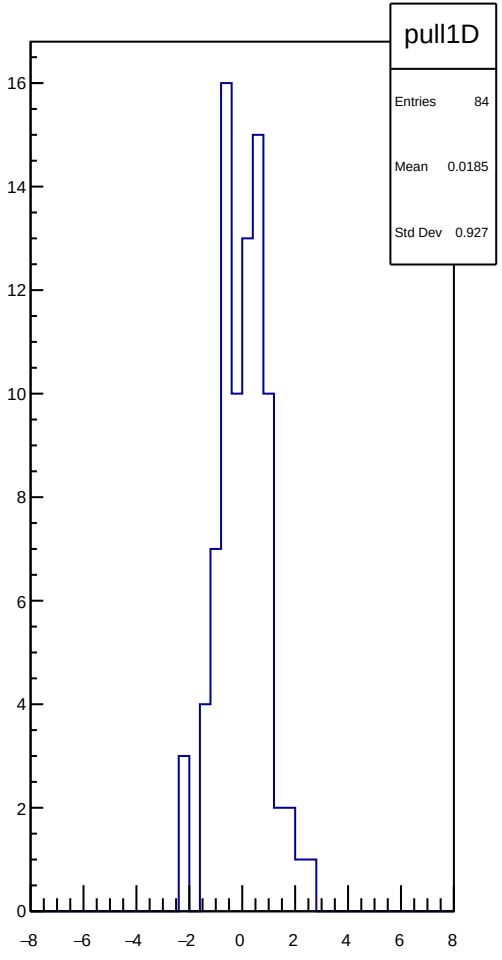

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 77.58 / 83
p0 98.72 ± 2.349
pull
Entries 84
Mean 32.82
Std Dev 0

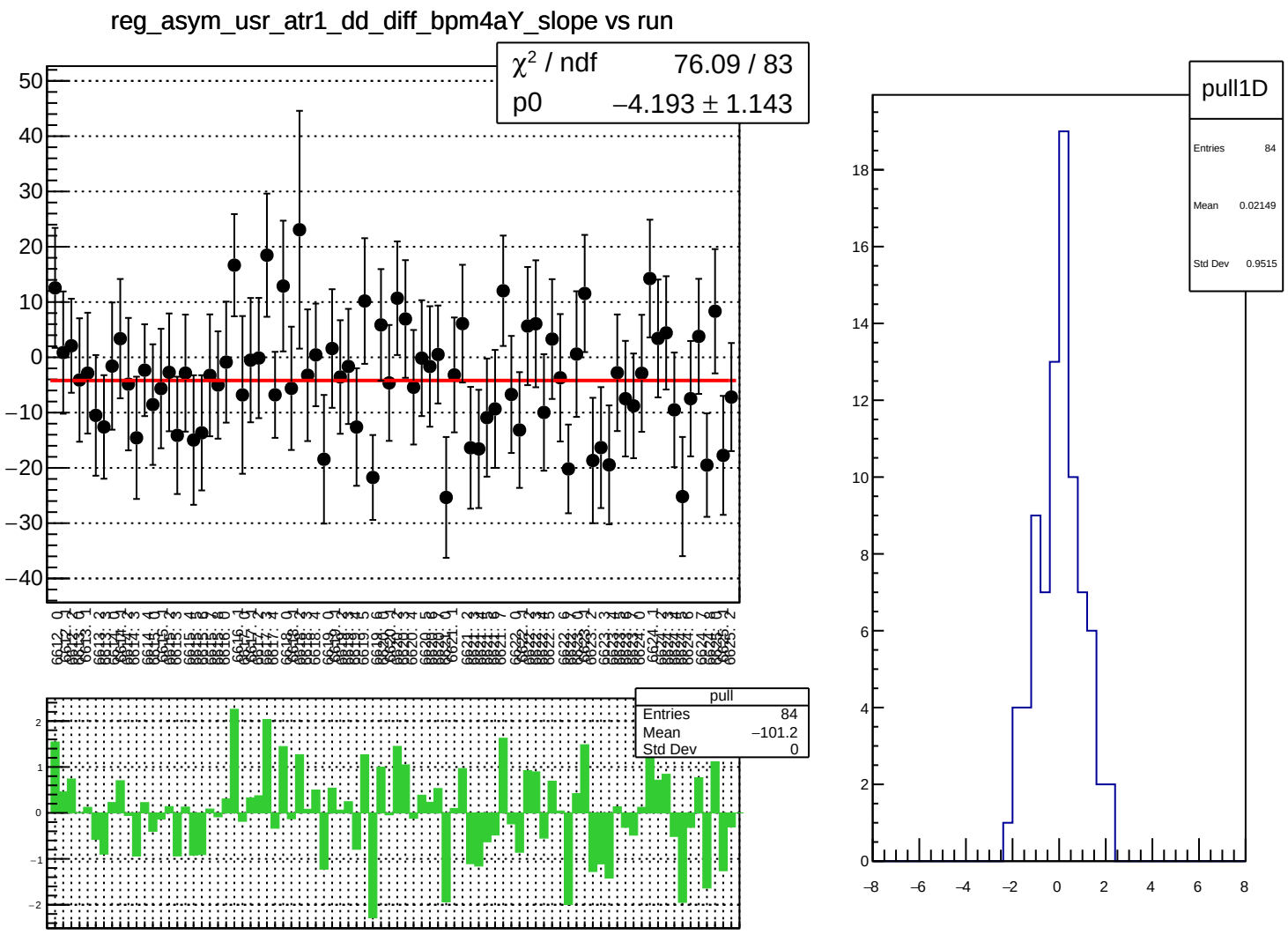

pull1D
Entries 84
Mean 0.02827
Std Dev 0.9606

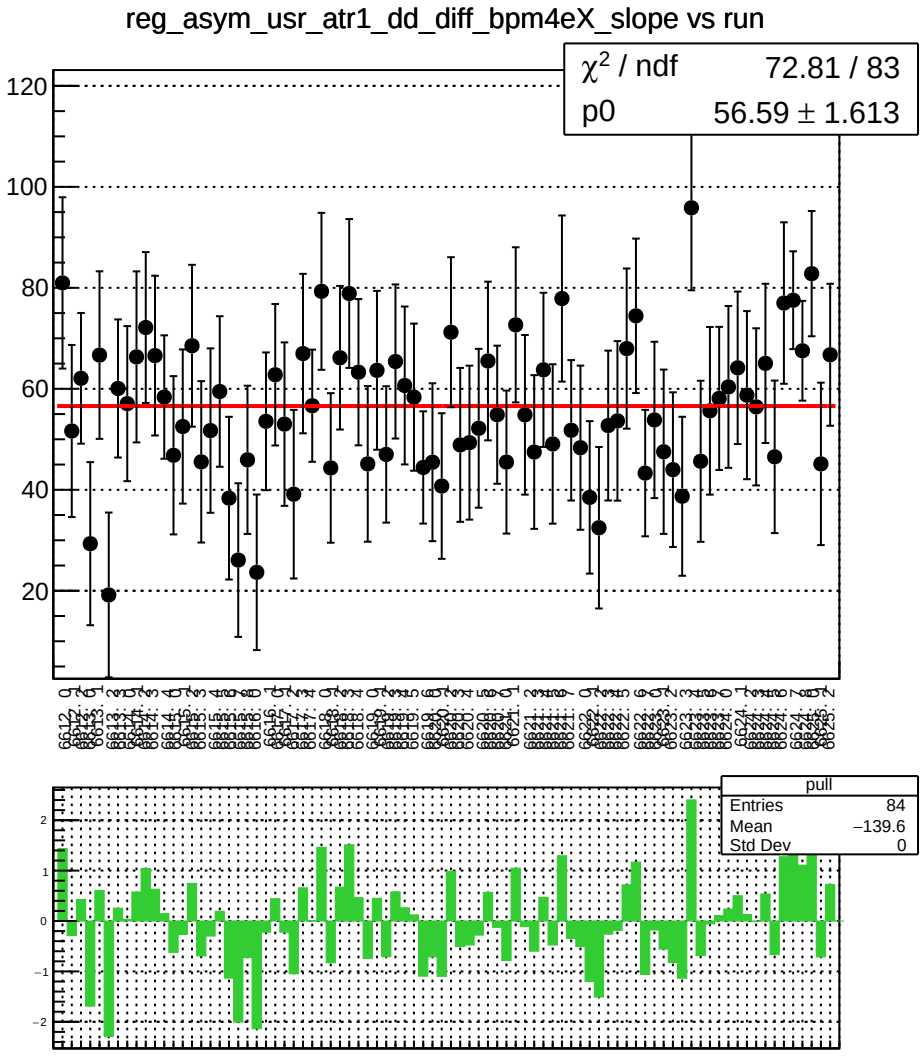

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 71.04 / 83
p0 −2.883 ± 1.961
pull
Entries 84
Mean −349.9
Std Dev 0
pull1D
Entries 84
Mean 0.018
Std Dev 0.9194

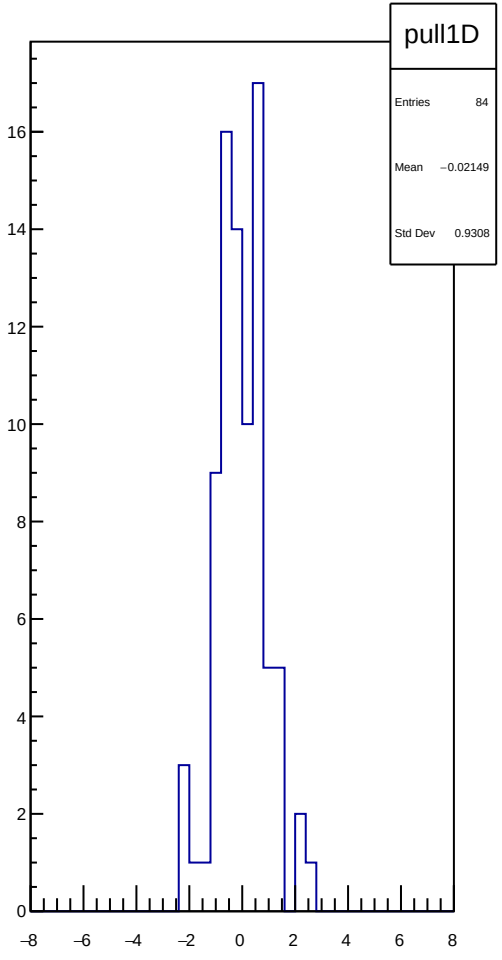

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 473.8 / 83
p0 −49.69 ± 0.09771
pull
Entries 84
Mean −438
Std Dev 0
pull1D
Entries 84
Mean 0.1105
Std Dev 1.971

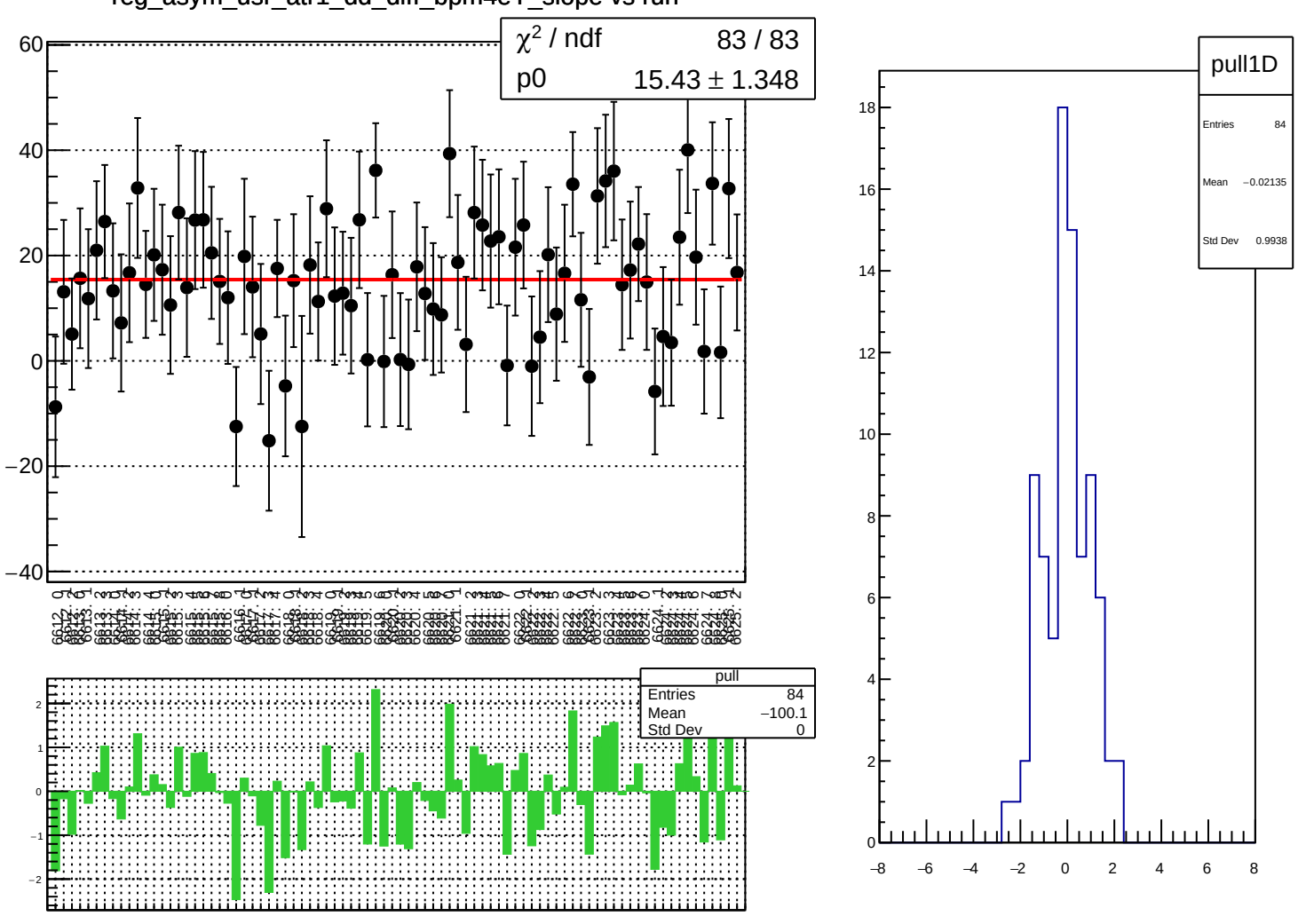

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 72.21 / 83
p0 2.77 ± 1.568
pull
Entries 84
Mean −159.5
Std Dev 0

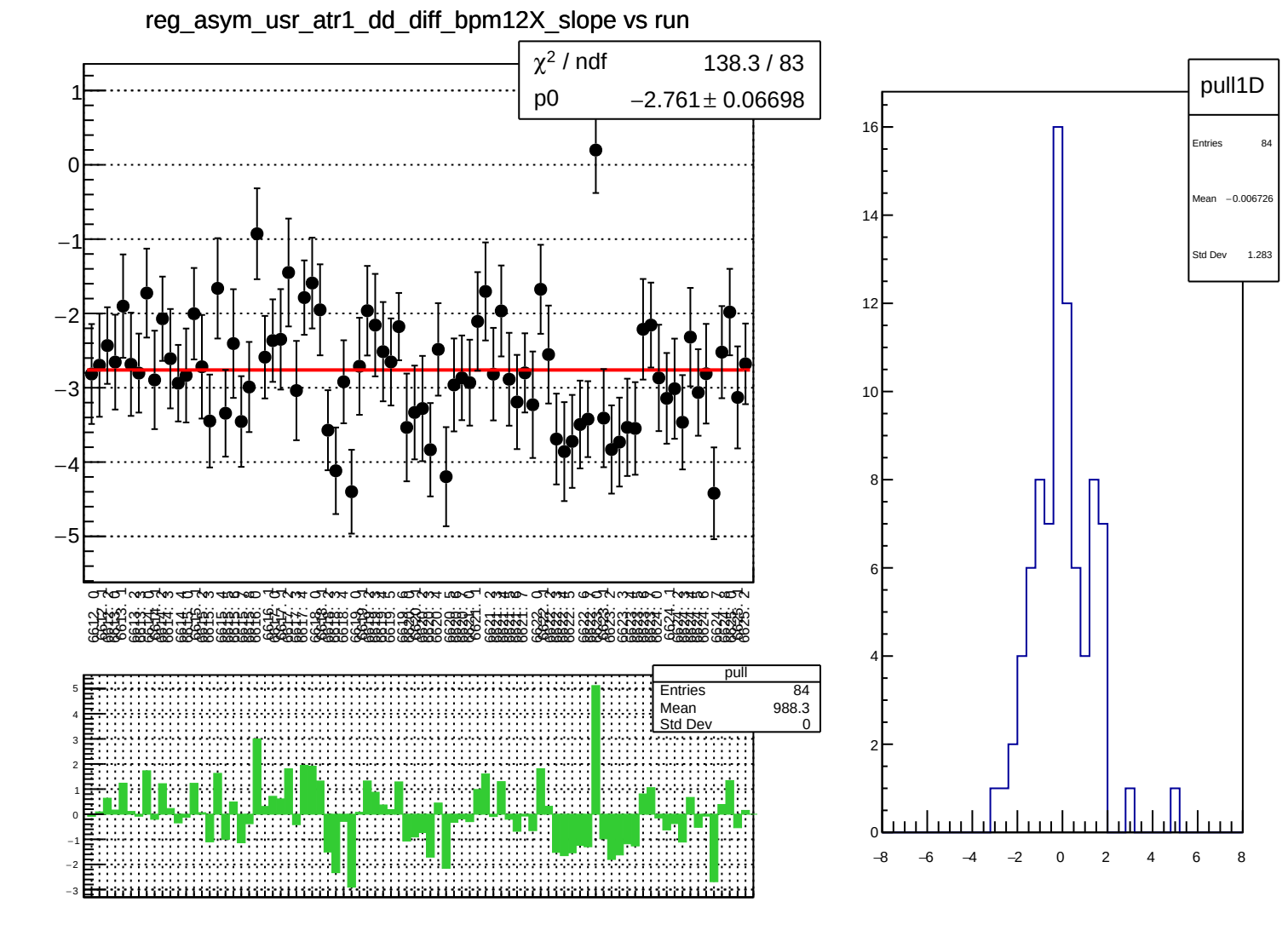

pull1D
Entries 84
Mean 0.0185
Std Dev 0.927

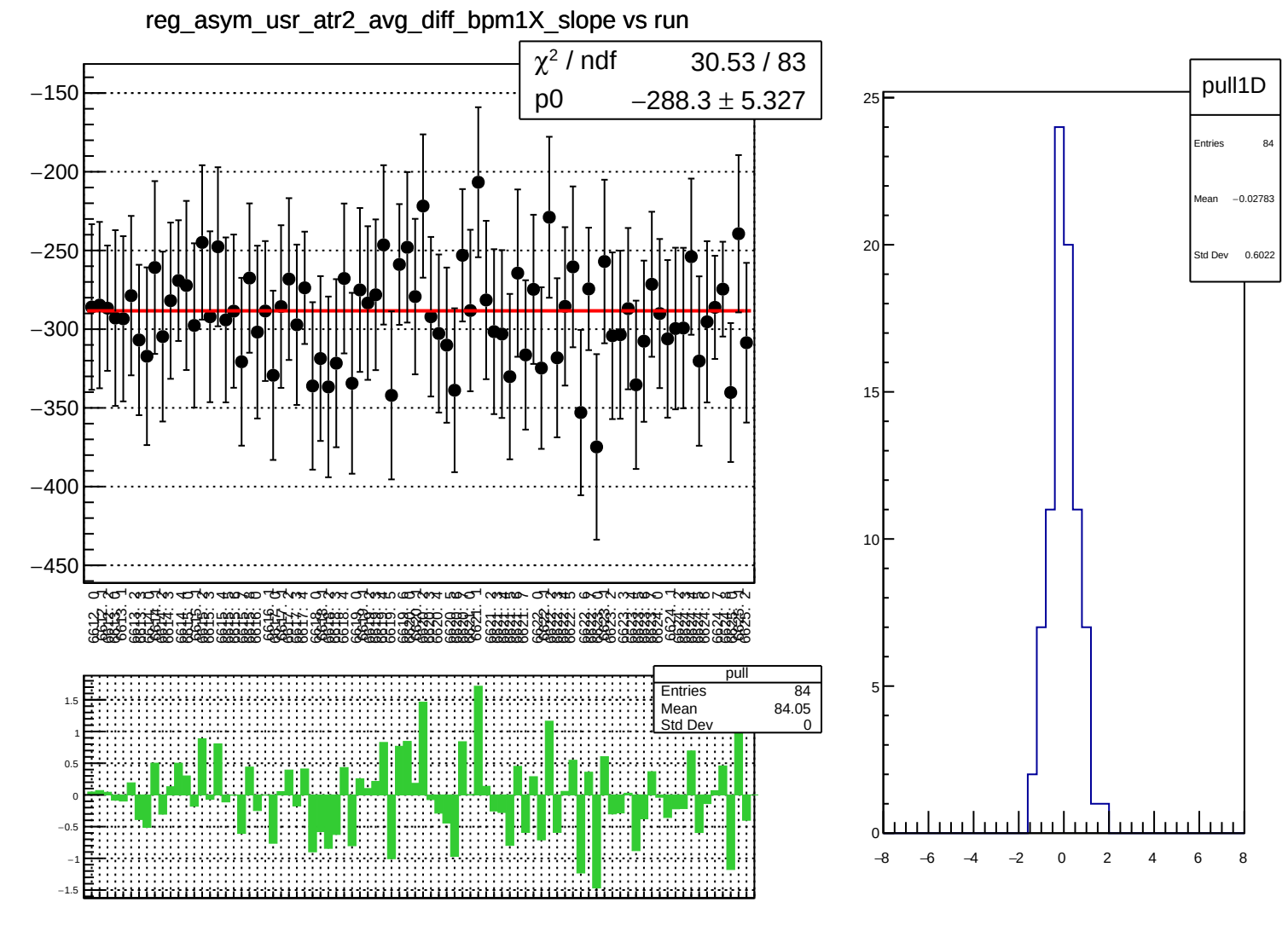

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.09 / 83
p0 −4.193 ± 1.143
pull
Entries 84
Mean −101.2
Std Dev 0
pull1D
Entries 84
Mean 0.02149
Std Dev 0.9515

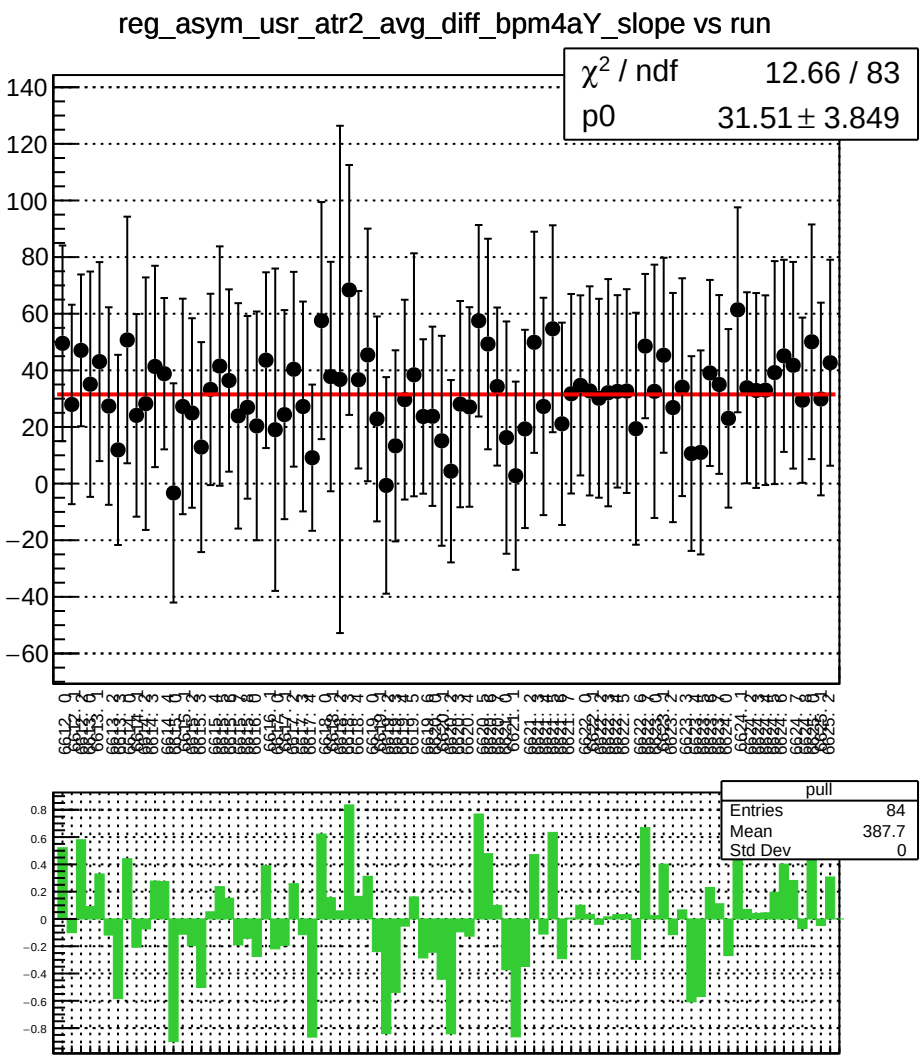

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.81 / 83
p0 56.59 ± 1.613
pull
Entries 84
Mean −139.6
Std Dev 0

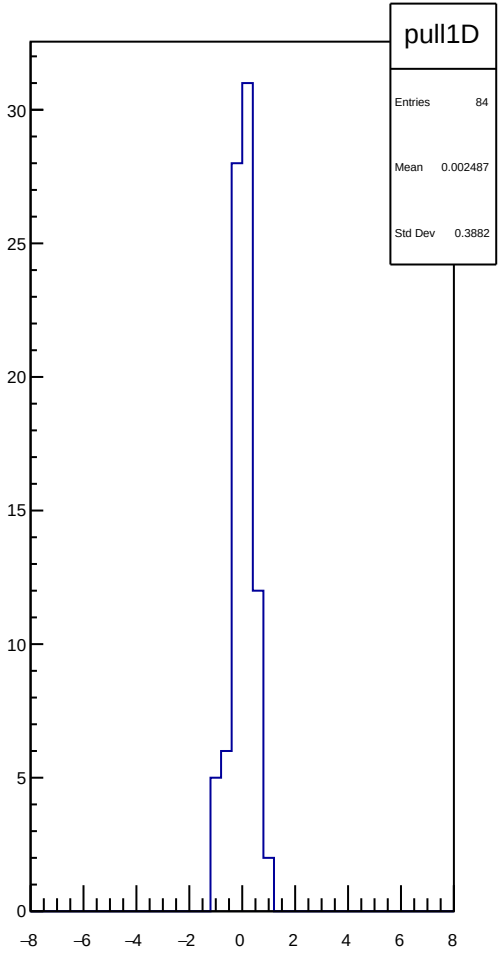

pull1D
Entries 84
Mean −0.02149
Std Dev 0.9308

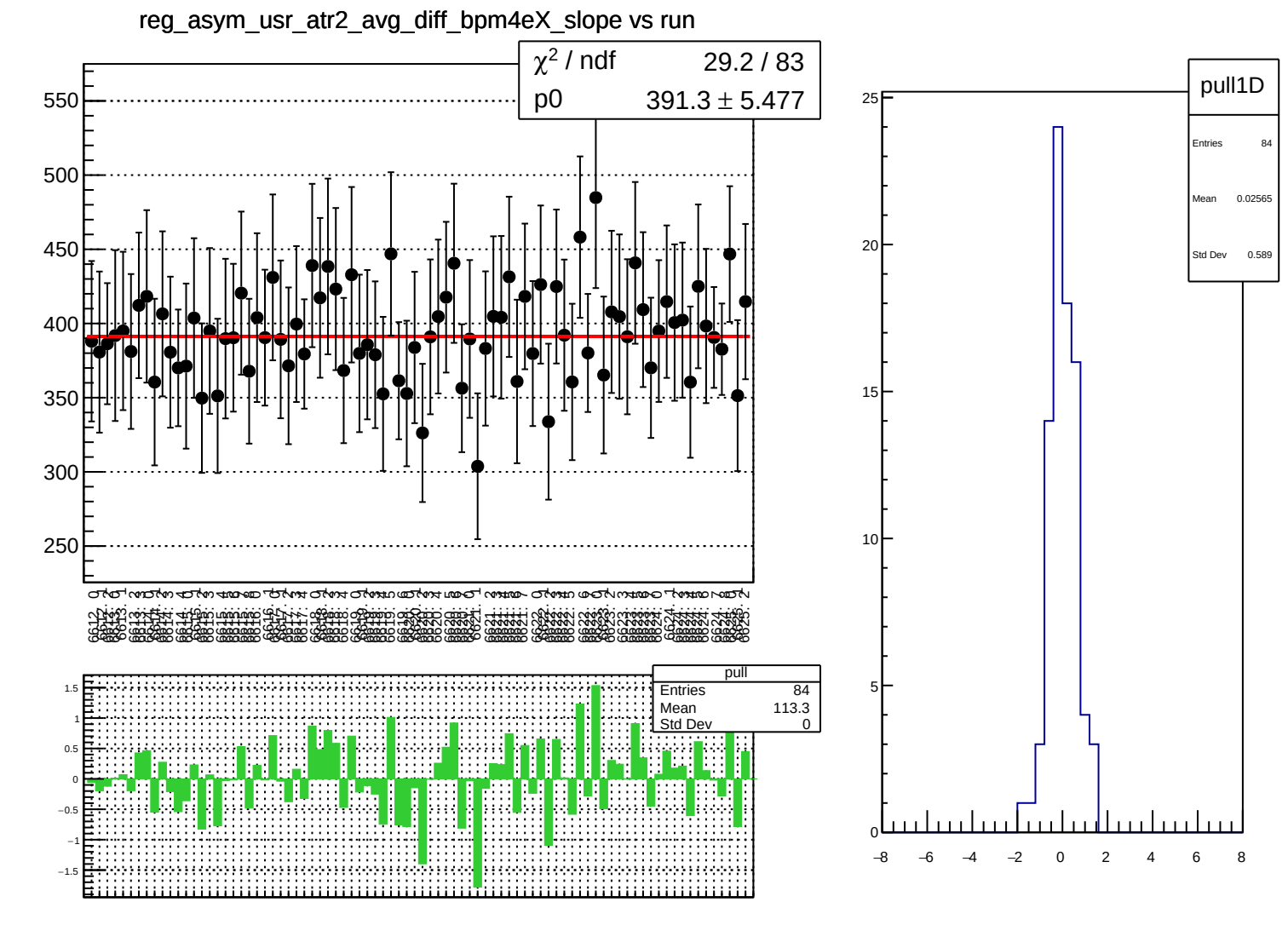

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 83 / 83
p0 15.43 ± 1.348
pull
Entries 84
Mean −100.1
Std Dev 0
pull1D
Entries 84
Mean −0.02135
Std Dev 0.9938

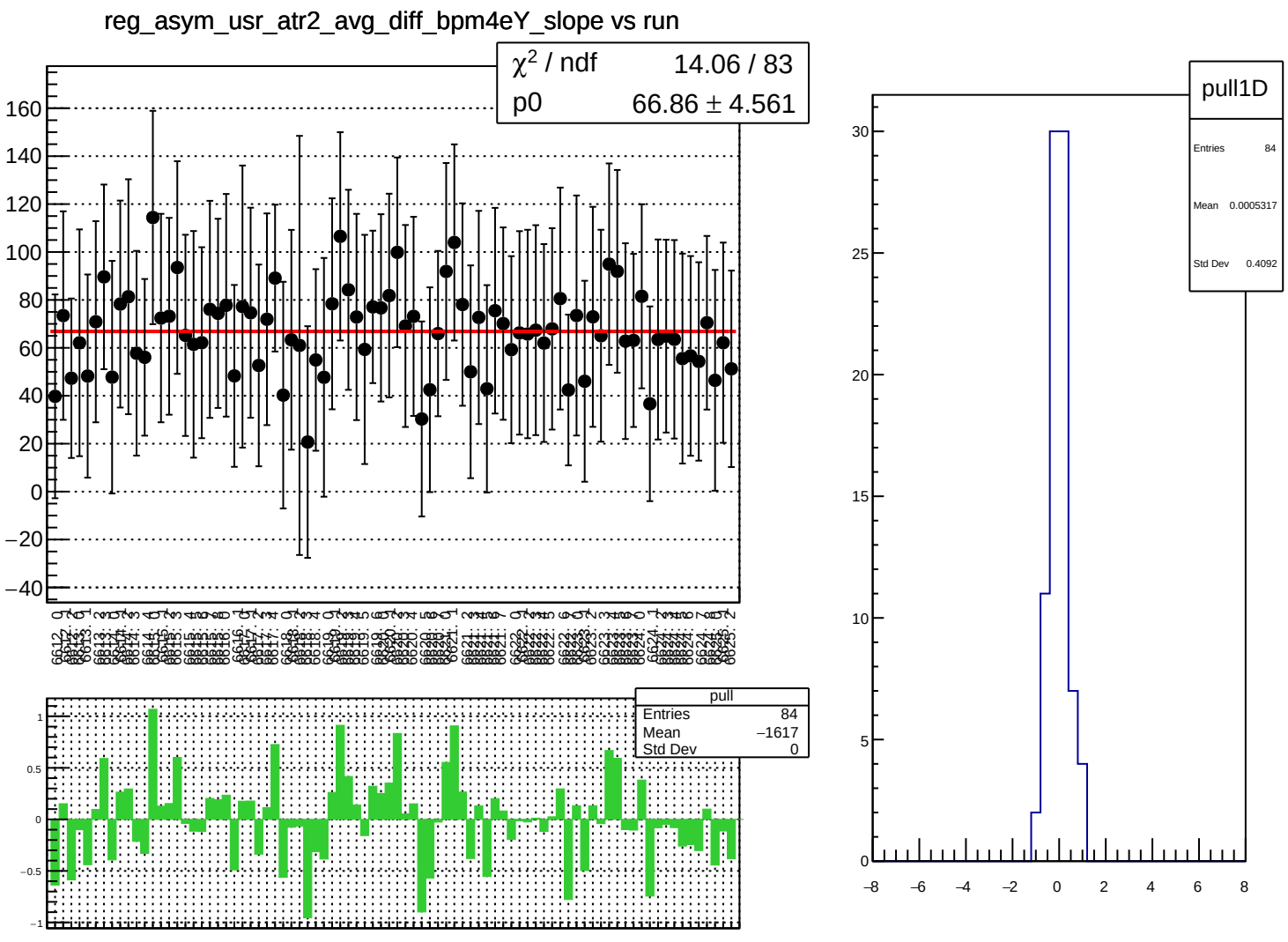

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 138.3 / 83
p0 −2.761 ± 0.06698
pull
Entries 84
Mean 988.3
Std Dev 0
pull1D
Entries 84
Mean −0.006726
Std Dev 1.283

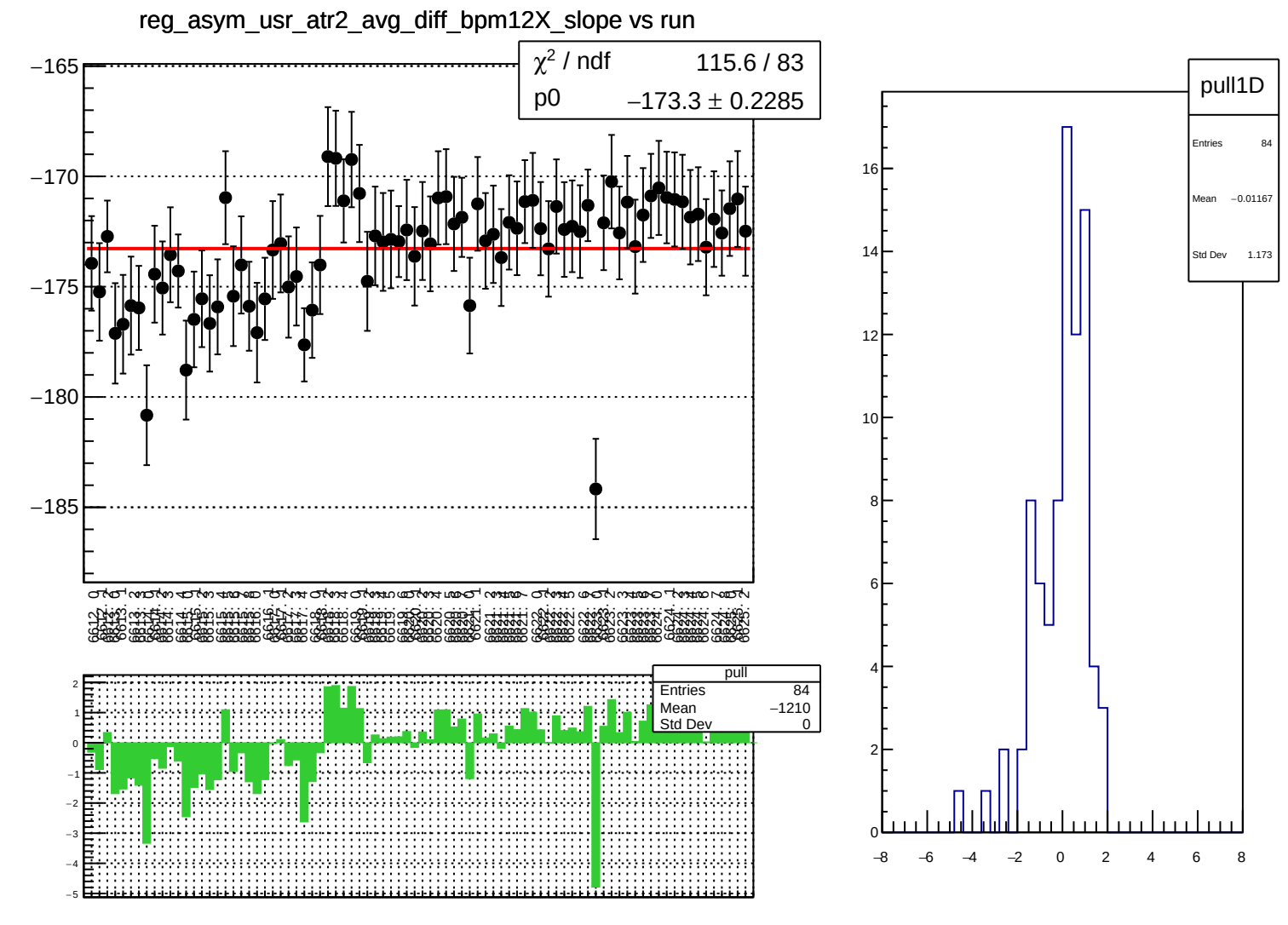

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 30.53 / 83
p0 −288.3 ± 5.327
−150
−200
−250
−300
−350
−400
−450
pull
Entries 84
Mean 84.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean −0.02783
Std Dev 0.6022
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

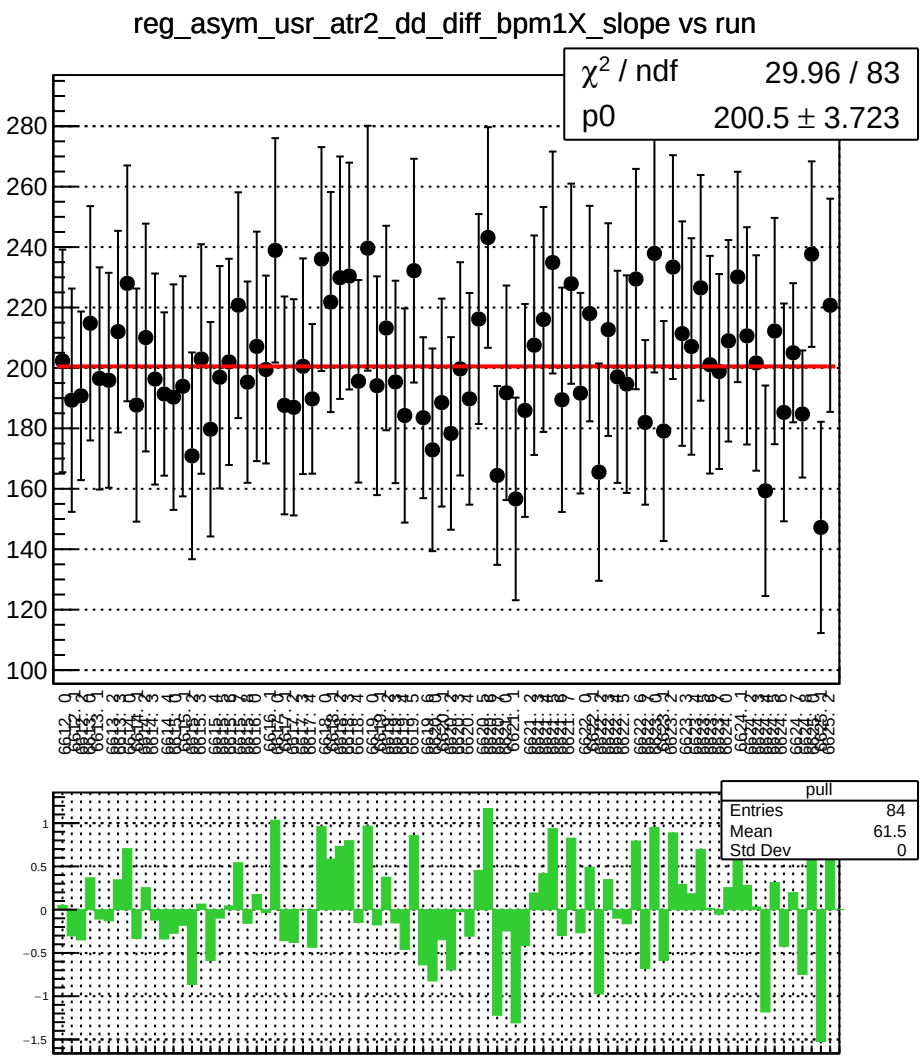

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.66 / 83
p0 31.51 ± 3.849
pull
Entries 84
Mean 387.7
Std Dev 0

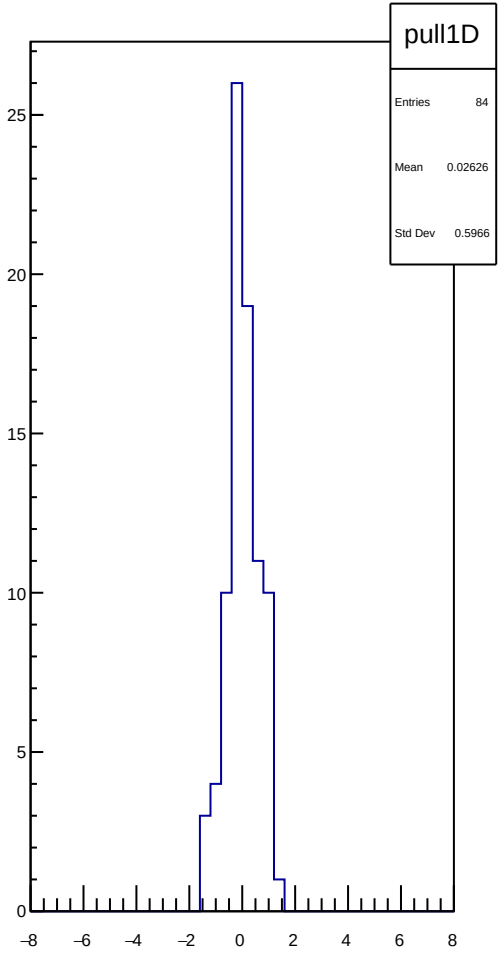

pull1D
Entries 84
Mean 0.002487
Std Dev 0.3882

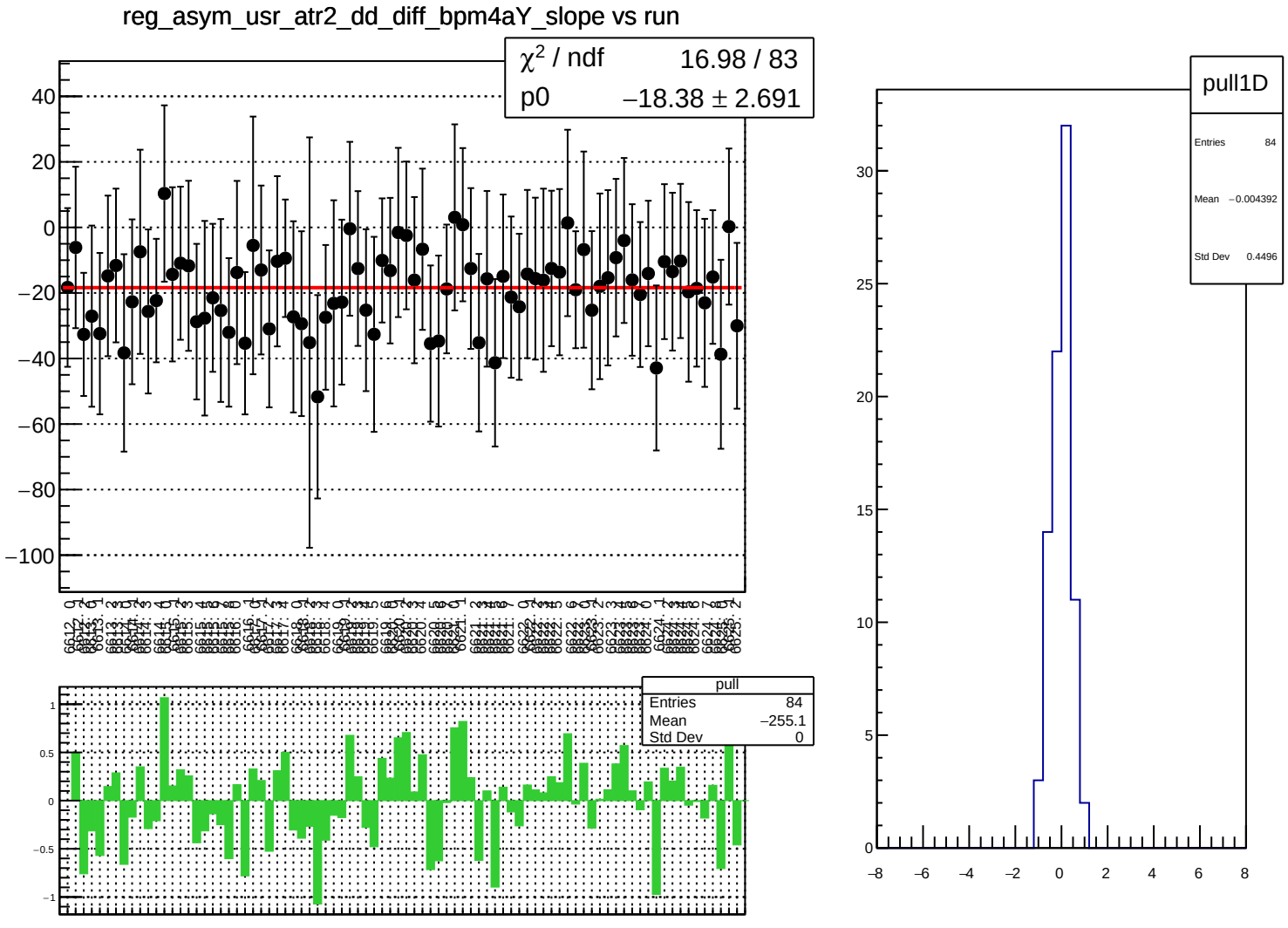

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.2 / 83
p0 391.3 ± 5.477
pull
Entries 84
Mean 113.3
Std Dev 0
pull1D
Entries 84
Mean 0.02565
Std Dev 0.589

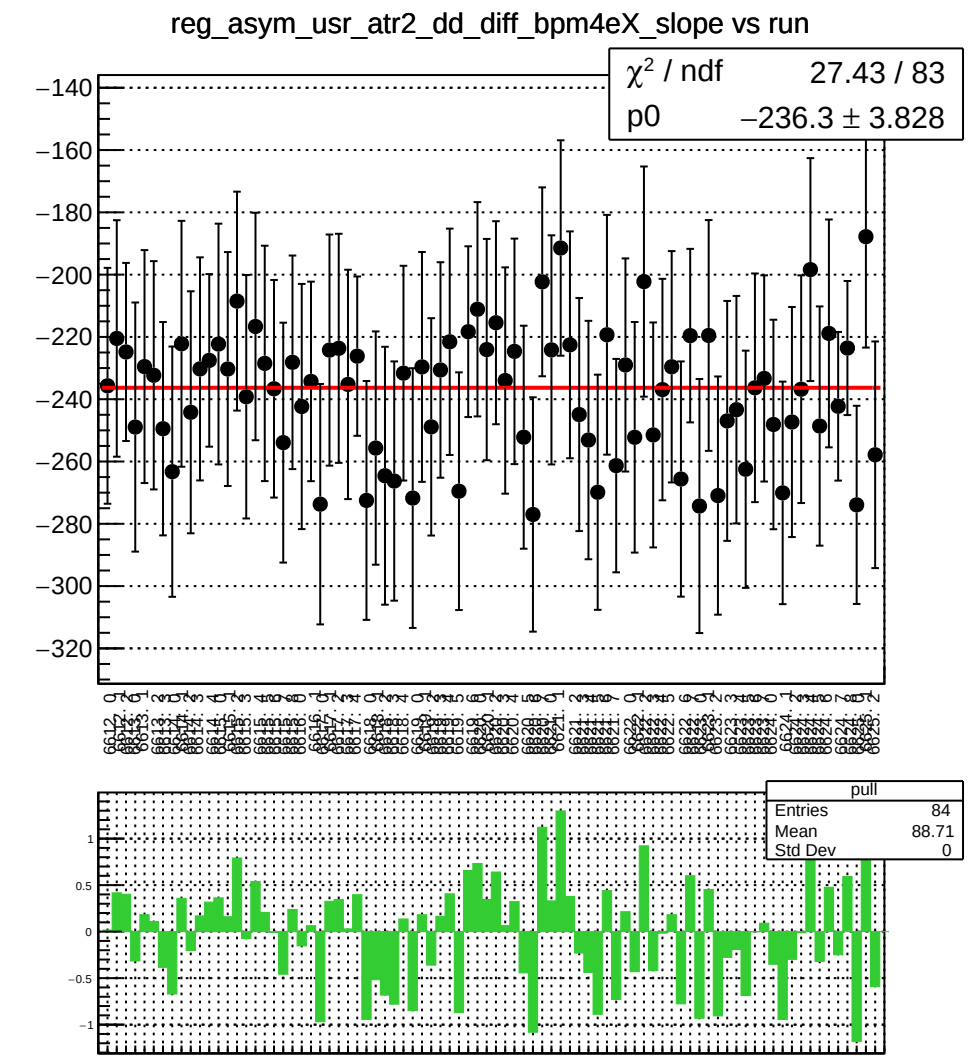

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.06 / 83
p0 66.86 ± 4.561
pull
Entries 84
Mean −1617
Std Dev 0
pull1D
Entries 84
Mean 0.0005317
Std Dev 0.4092

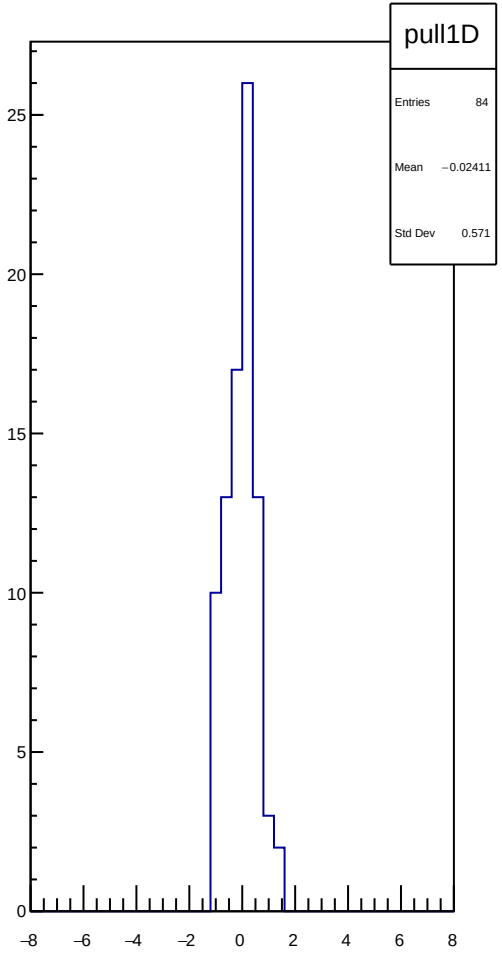

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 115.6 / 83
p0 −173.3 ± 0.2285
−165
−170
−175
−180
−185
pull
Entries 84
Mean −1210
Std Dev 0
pull1D
Entries 84
Mean −0.01167
Std Dev 1.173

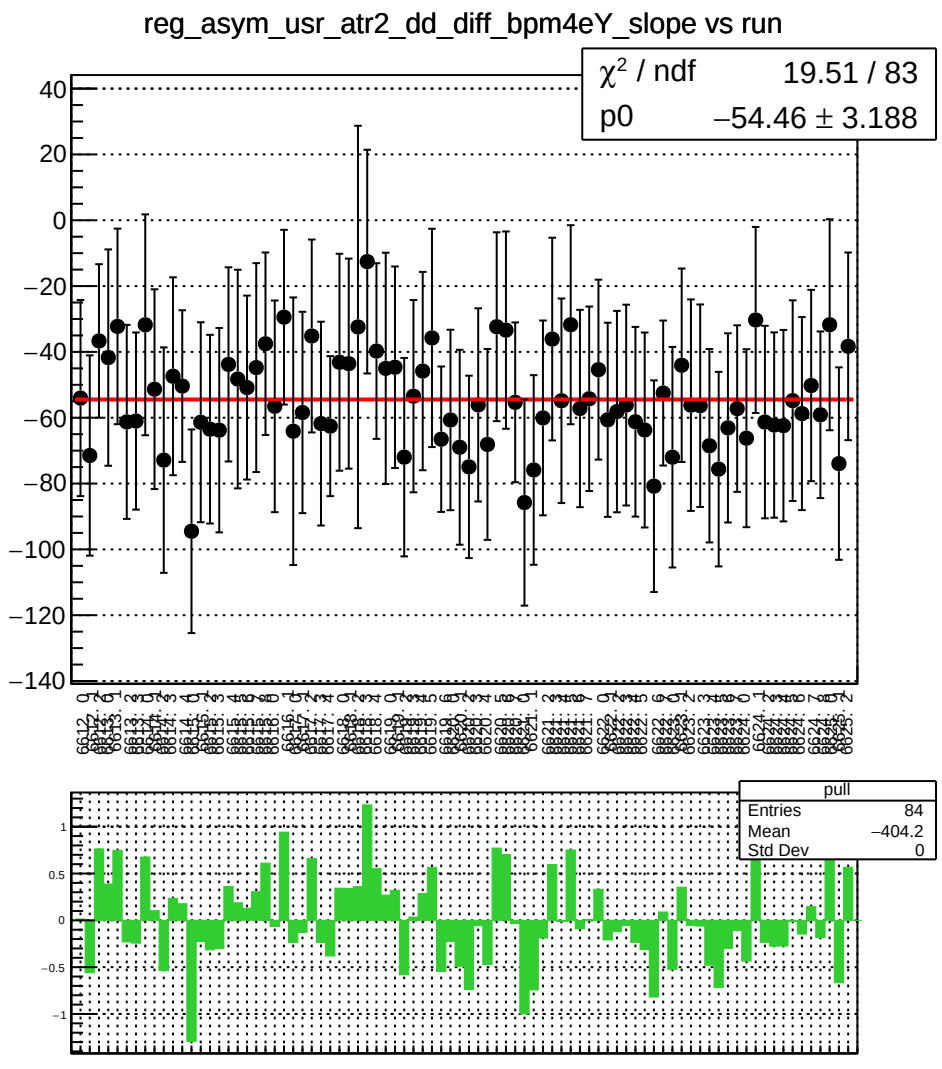

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 29.96 / 83
p0 200.5 ± 3.723
pull
Entries 84
Mean 61.5
Std Dev 0

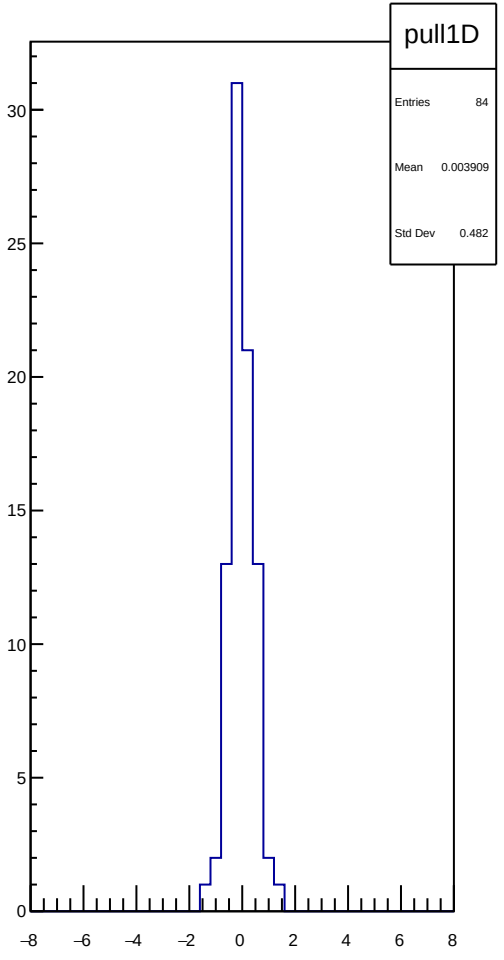

pull1D
Entries 84
Mean 0.02626
Std Dev 0.5966

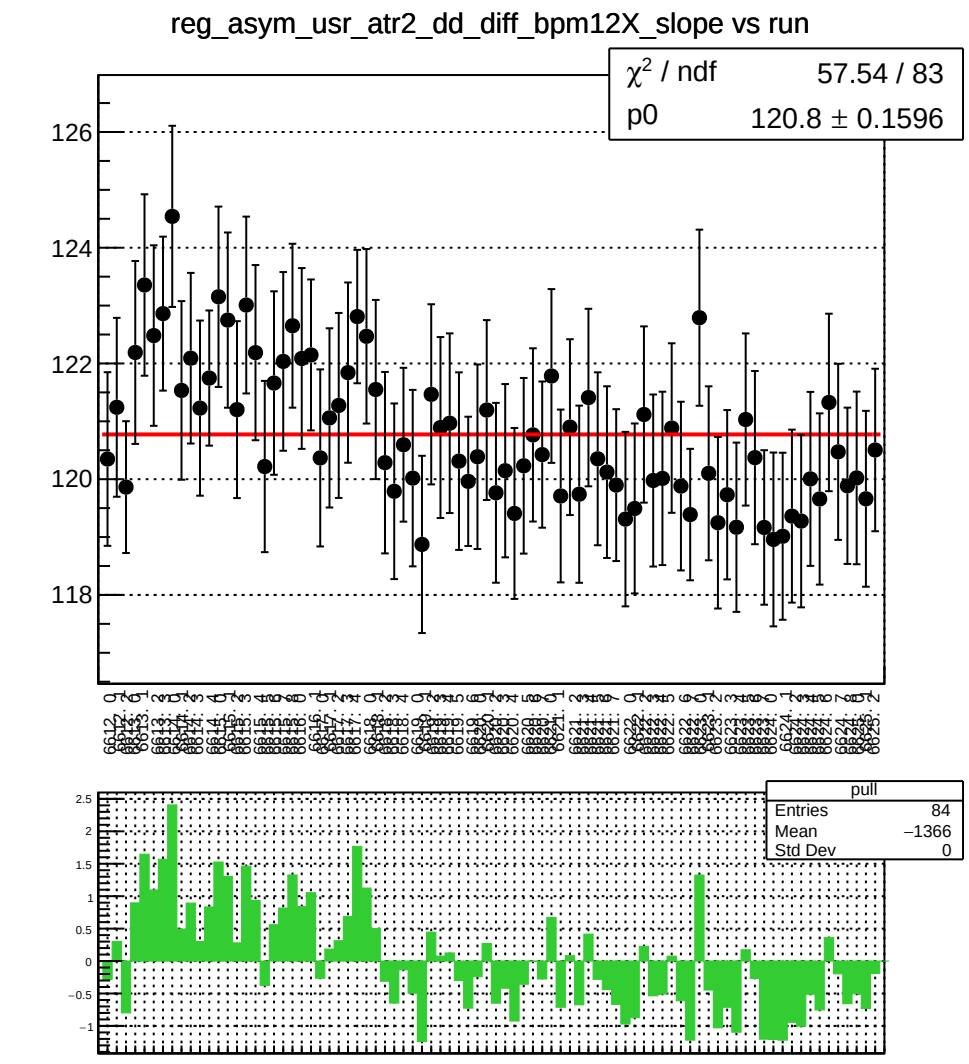

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.98 / 83
p0 −18.38 ± 2.691
pull
Entries 84
Mean −255.1
Std Dev 0
pull1D
Entries 84
Mean −0.004392
Std Dev 0.4496

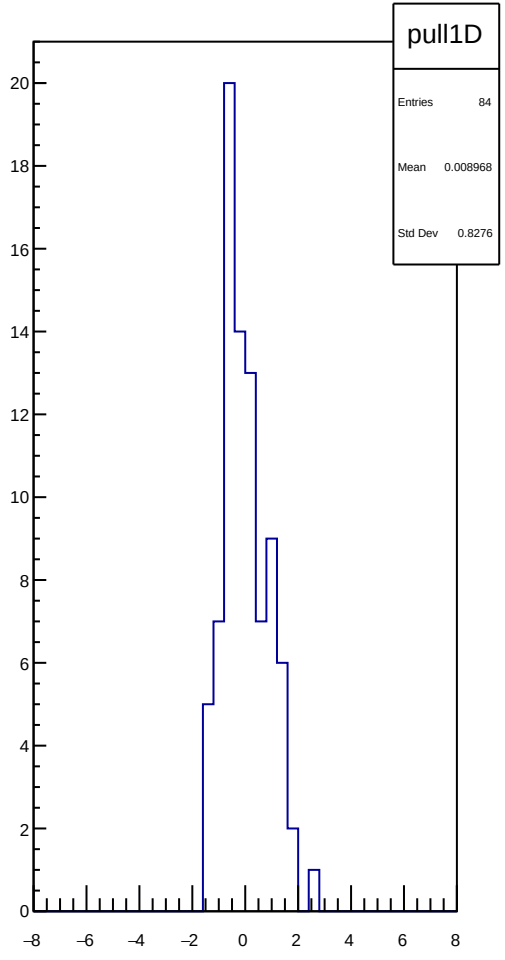

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.43 / 83
p0 −236.3 ± 3.828
pull
Entries 84
Mean 88.71
Std Dev 0

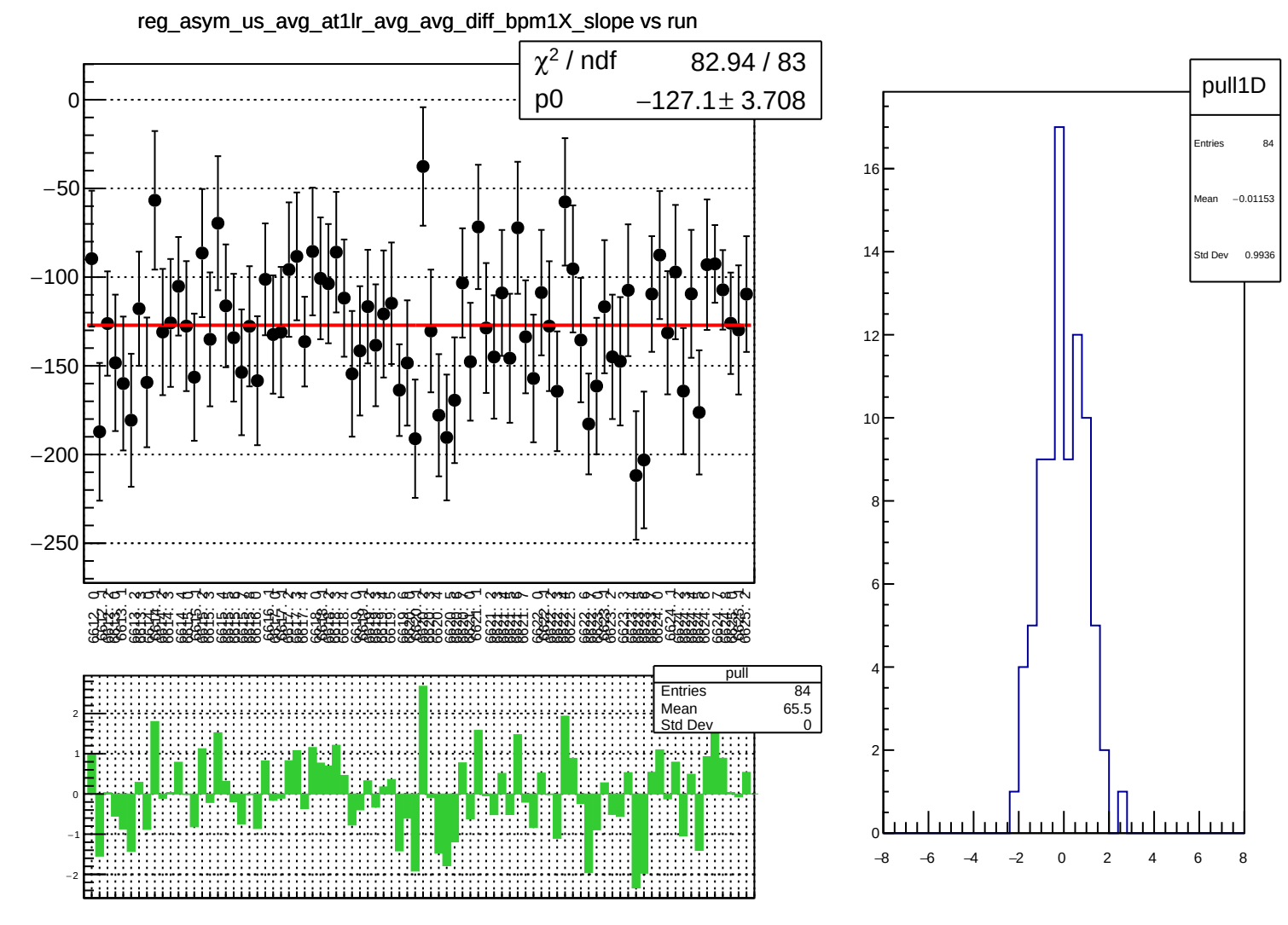

pull1D
Entries 84
Mean −0.02411
Std Dev 0.571

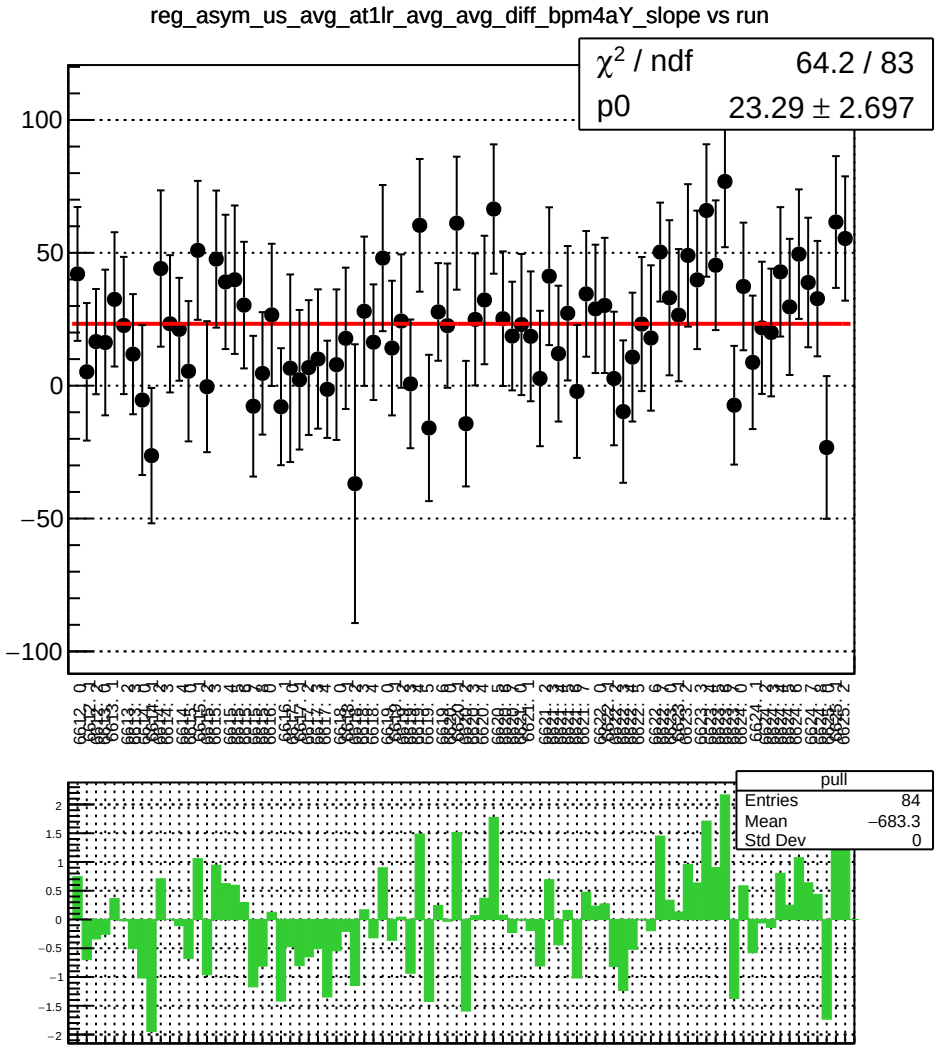

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.51 / 83
p0 −54.46 ± 3.188
pull
Entries 84
Mean −404.2
Std Dev 0

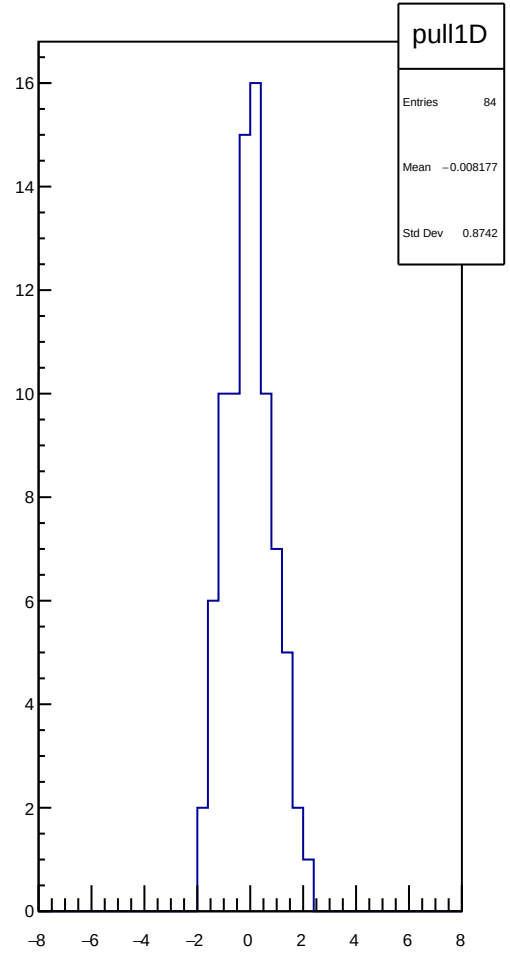

pull1D
Entries 84
Mean 0.003909
Std Dev 0.482

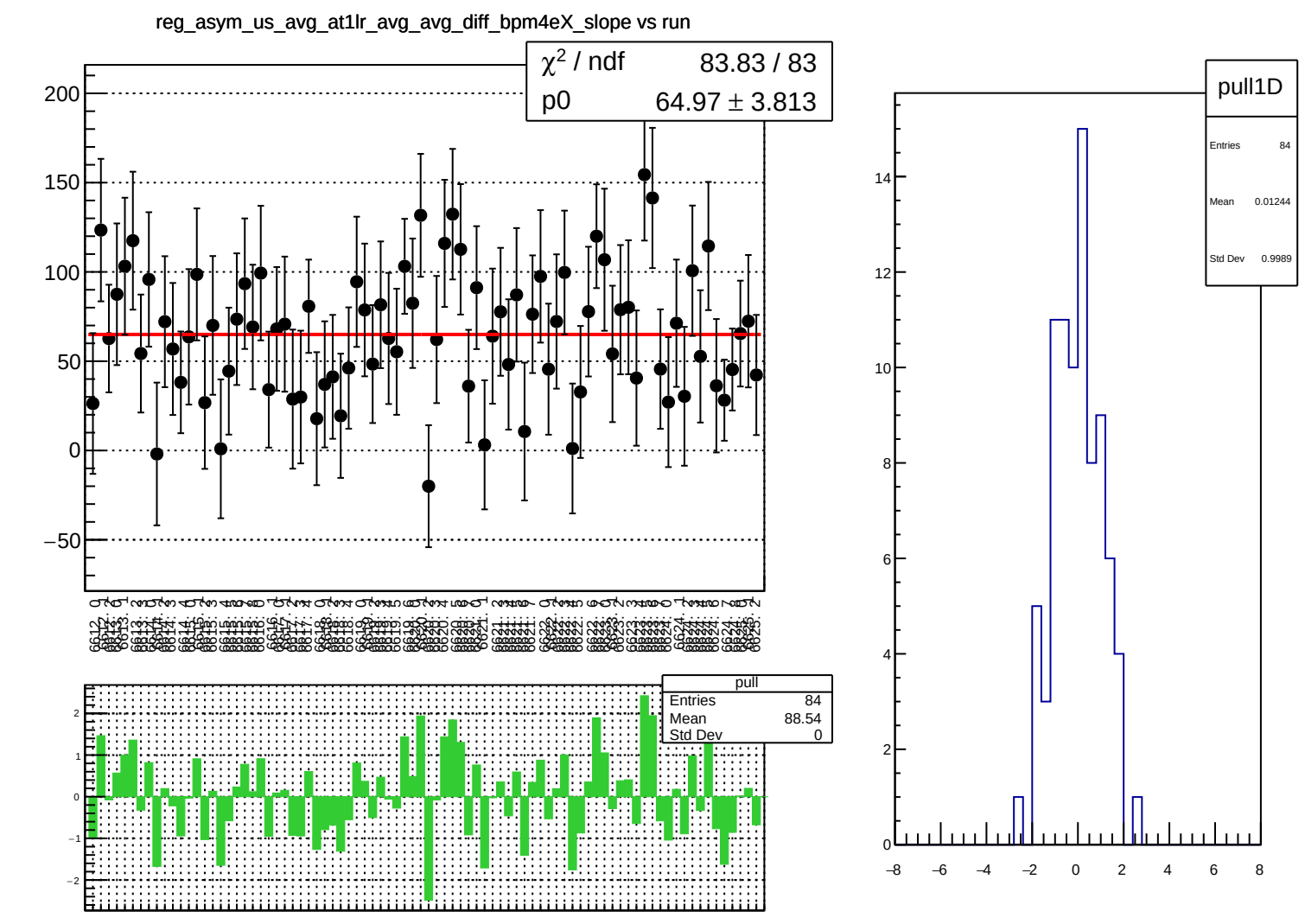

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 57.54 / 83
p0 120.8 ± 0.1596
126
124
122
120
118
pull
Entries 84
Mean −1366
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

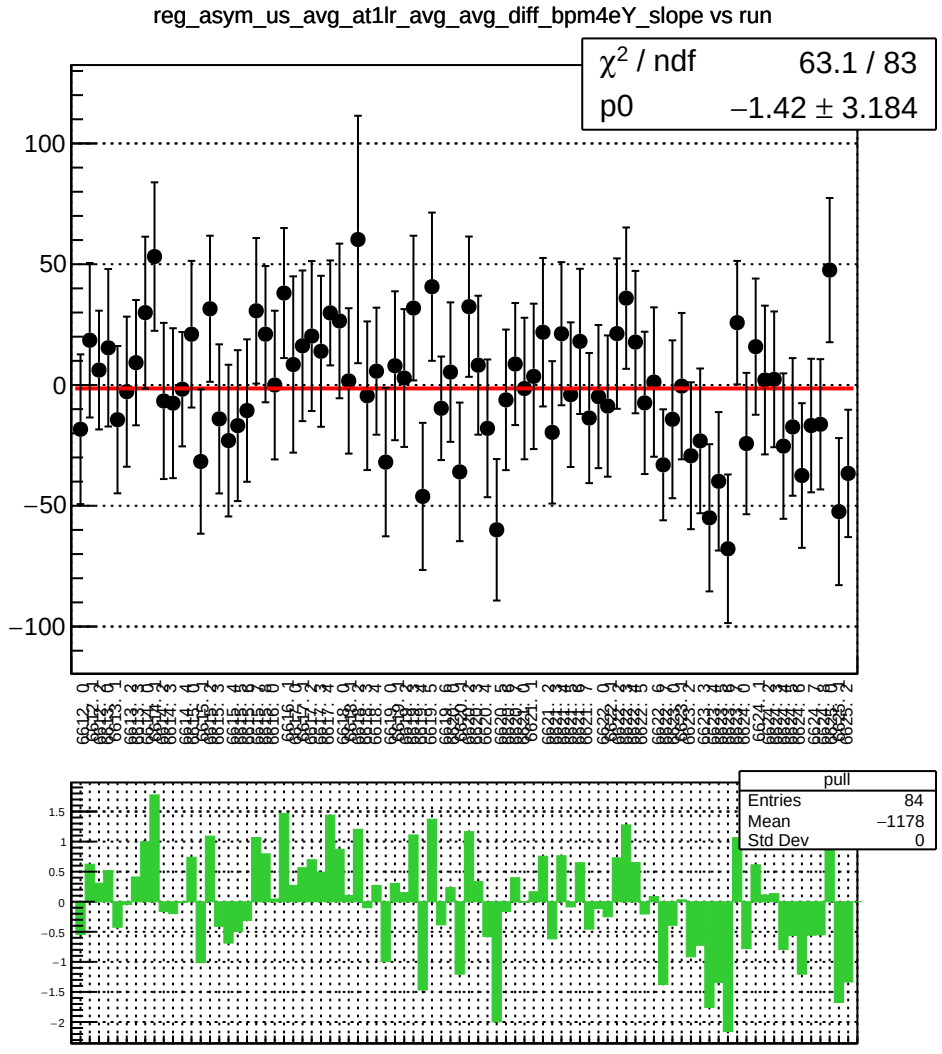

pull1D
Entries 84
Mean 0.008968
Std Dev 0.8276
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

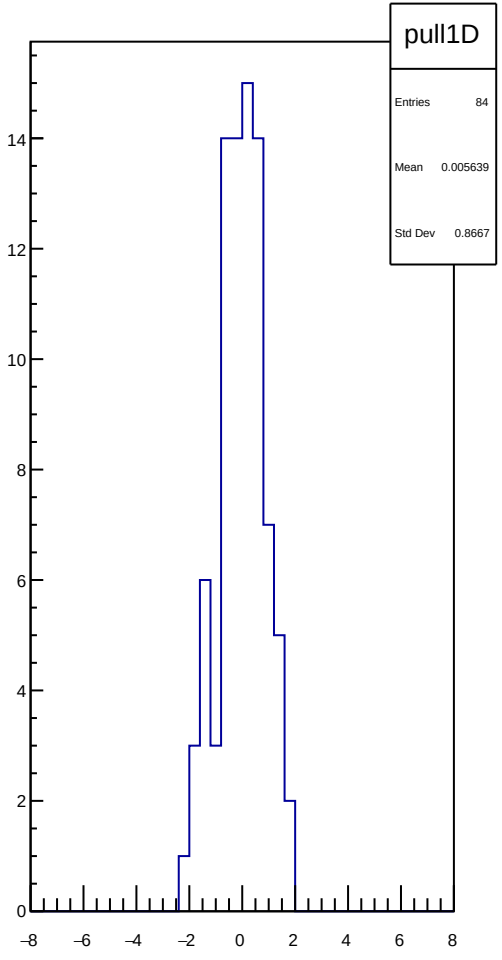

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 82.94 / 83
p0 −127.1± 3.708
pull
Entries 84
Mean 65.5
Std Dev 0
pull1D
Entries 84
Mean −0.01153
Std Dev 0.9936

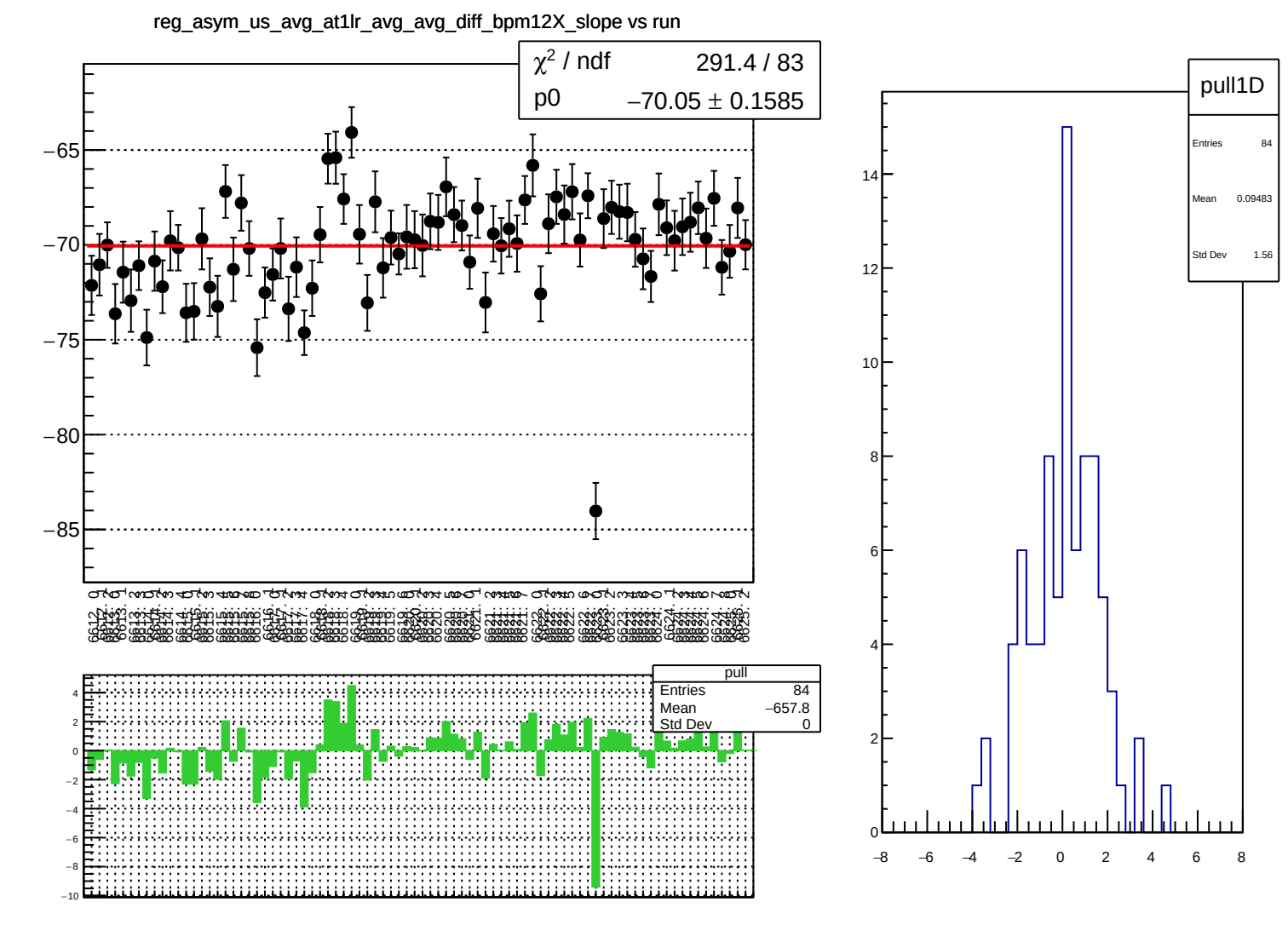

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 64.2 / 83
p0 23.29 ± 2.697
pull
Entries 84
Mean −683.3
Std Dev 0

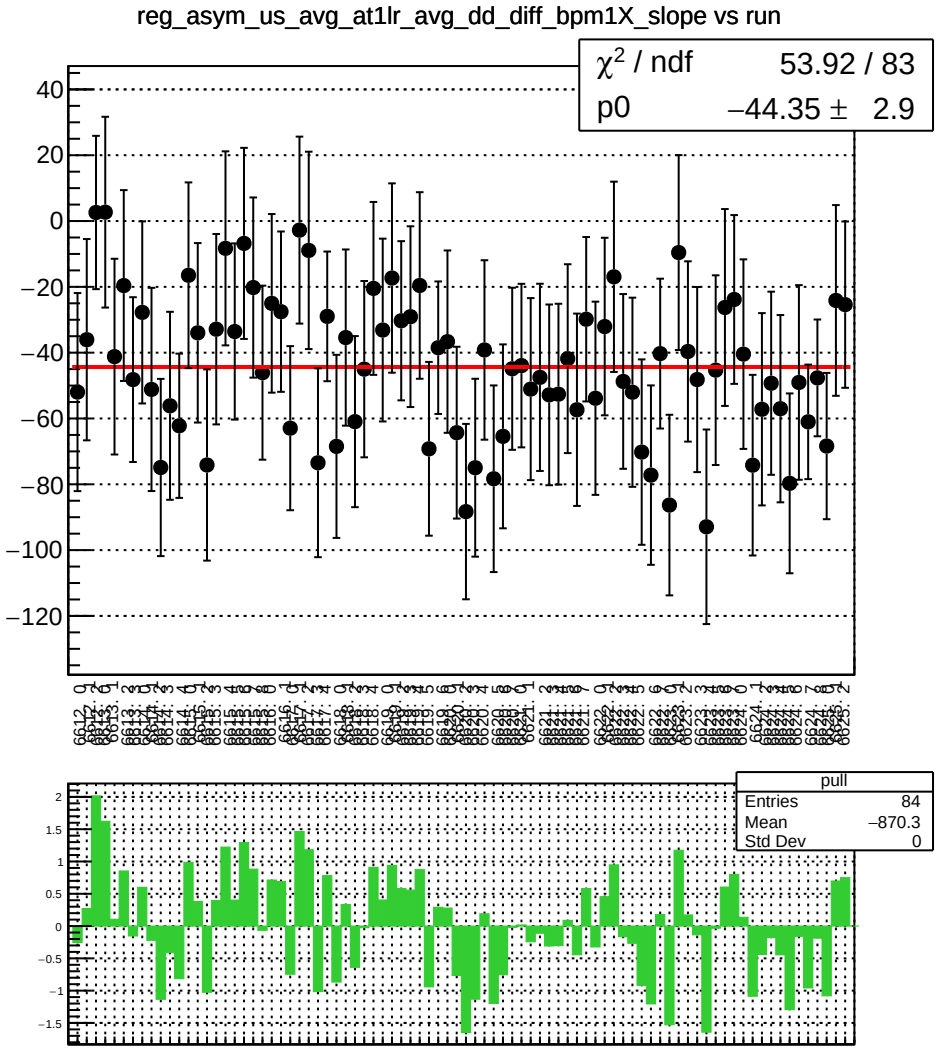

pull1D
Entries 84
Mean −0.008177
Std Dev 0.8742

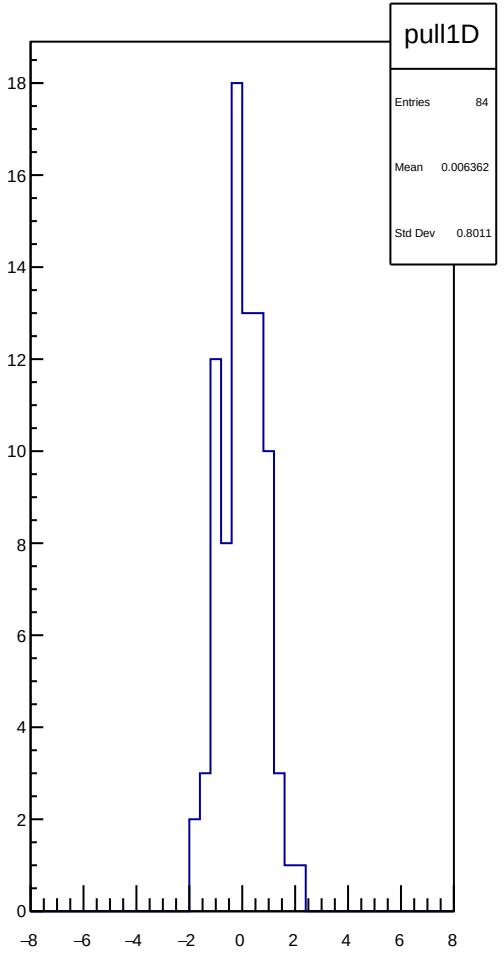

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 83.83 / 83
p0 64.97 ± 3.813
pull
Entries 84
Mean 88.54
Std Dev 0
pull1D
Entries 84
Mean 0.01244
Std Dev 0.9989

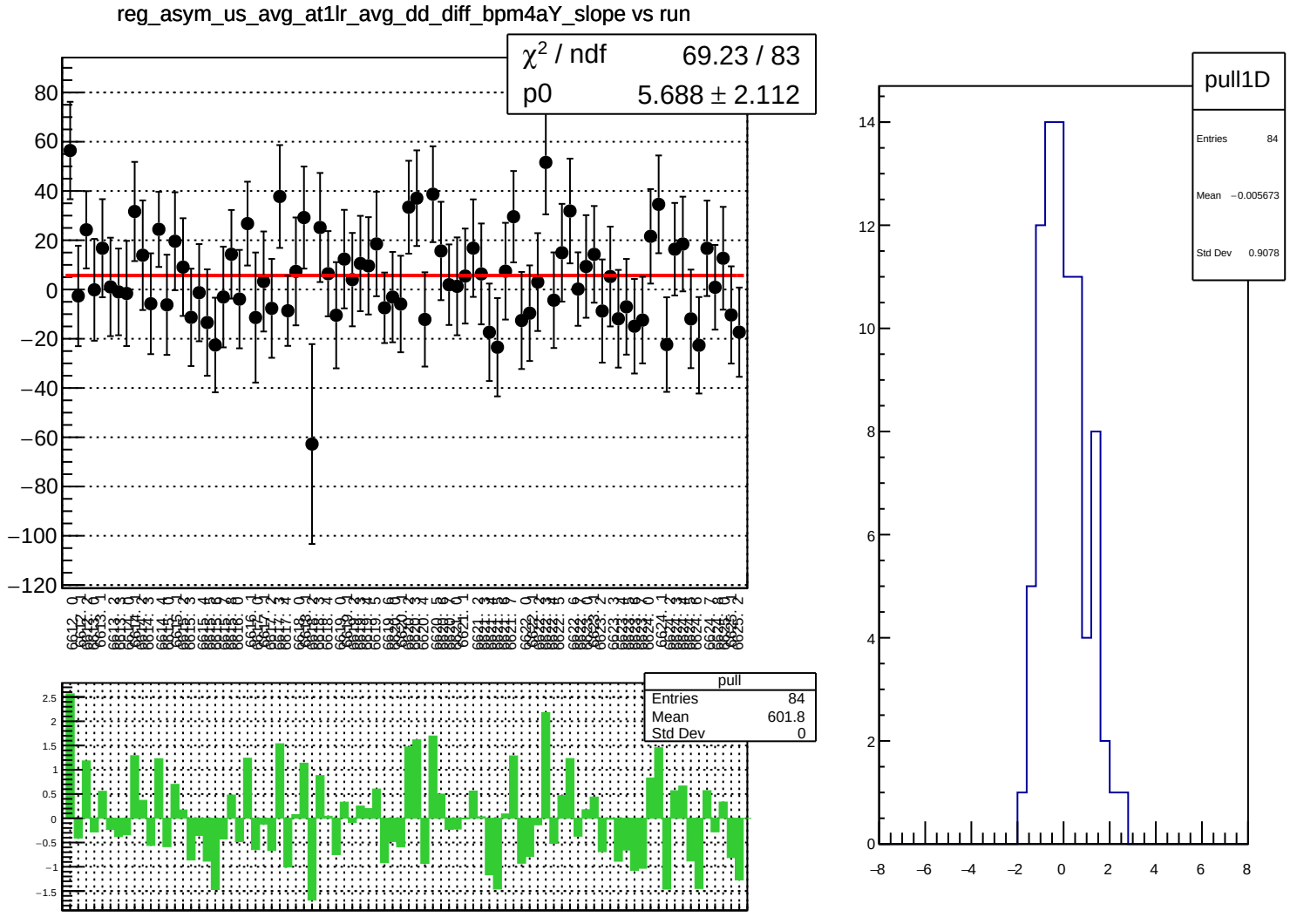

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 63.1 / 83
p0 −1.42 ± 3.184
pull
Entries 84
Mean −1178
Std Dev 0

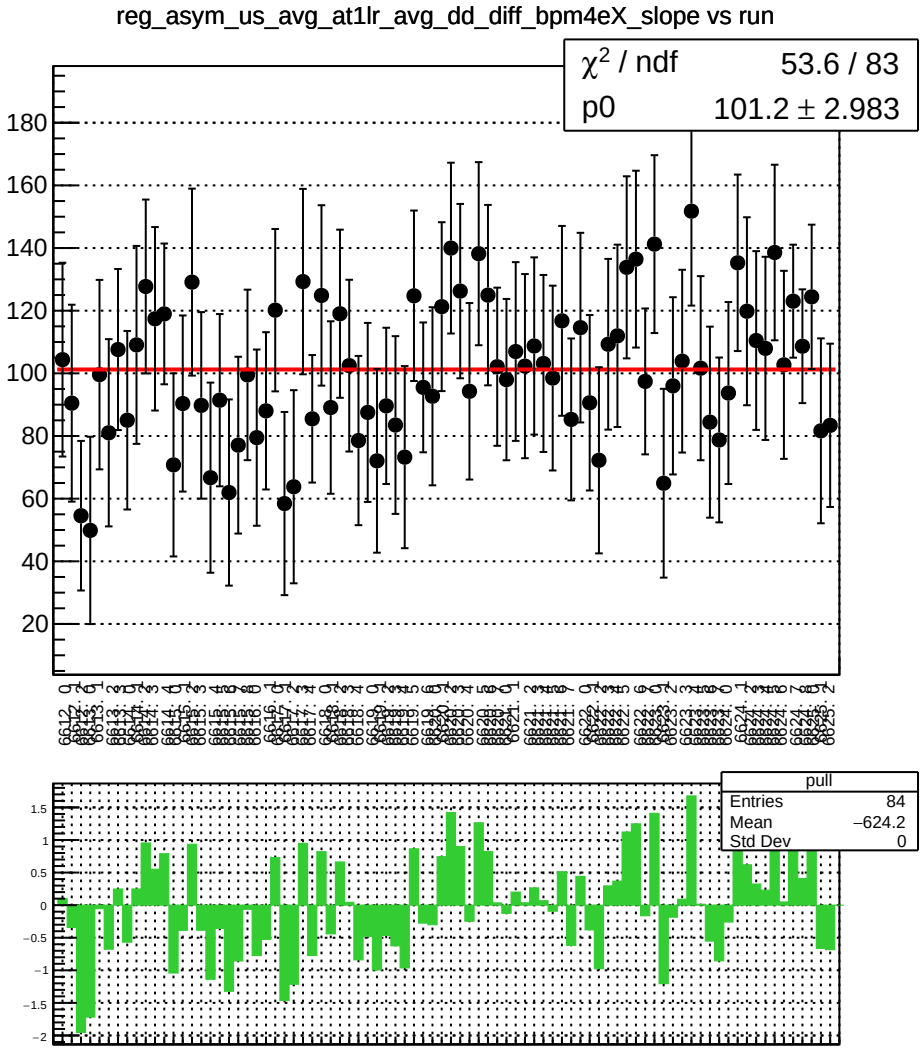

pull1D
Entries 84
Mean 0.005639
Std Dev 0.8667

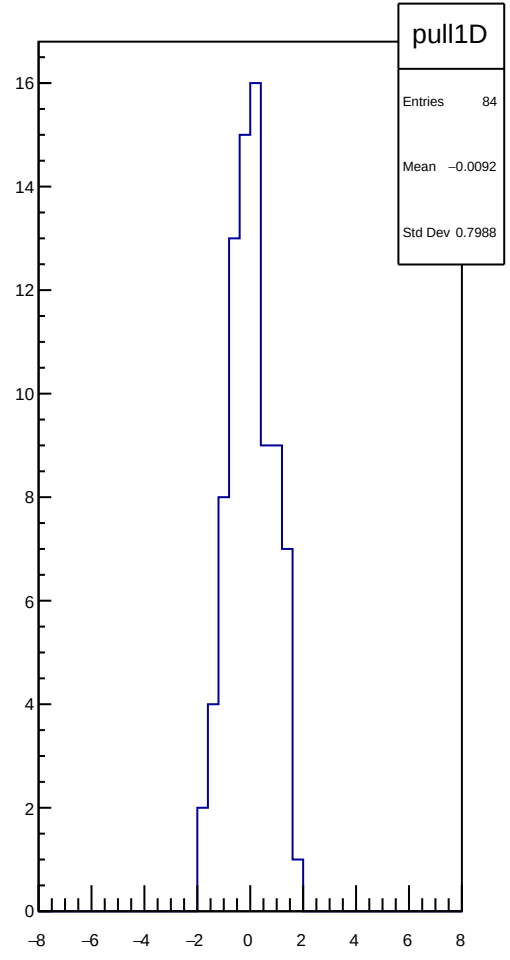

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 291.4 / 83
p0 −70.05 ± 0.1585
pull
Entries 84
Mean −657.8
Std Dev 0
pull1D
Entries 84
Mean 0.09483
Std Dev 1.56

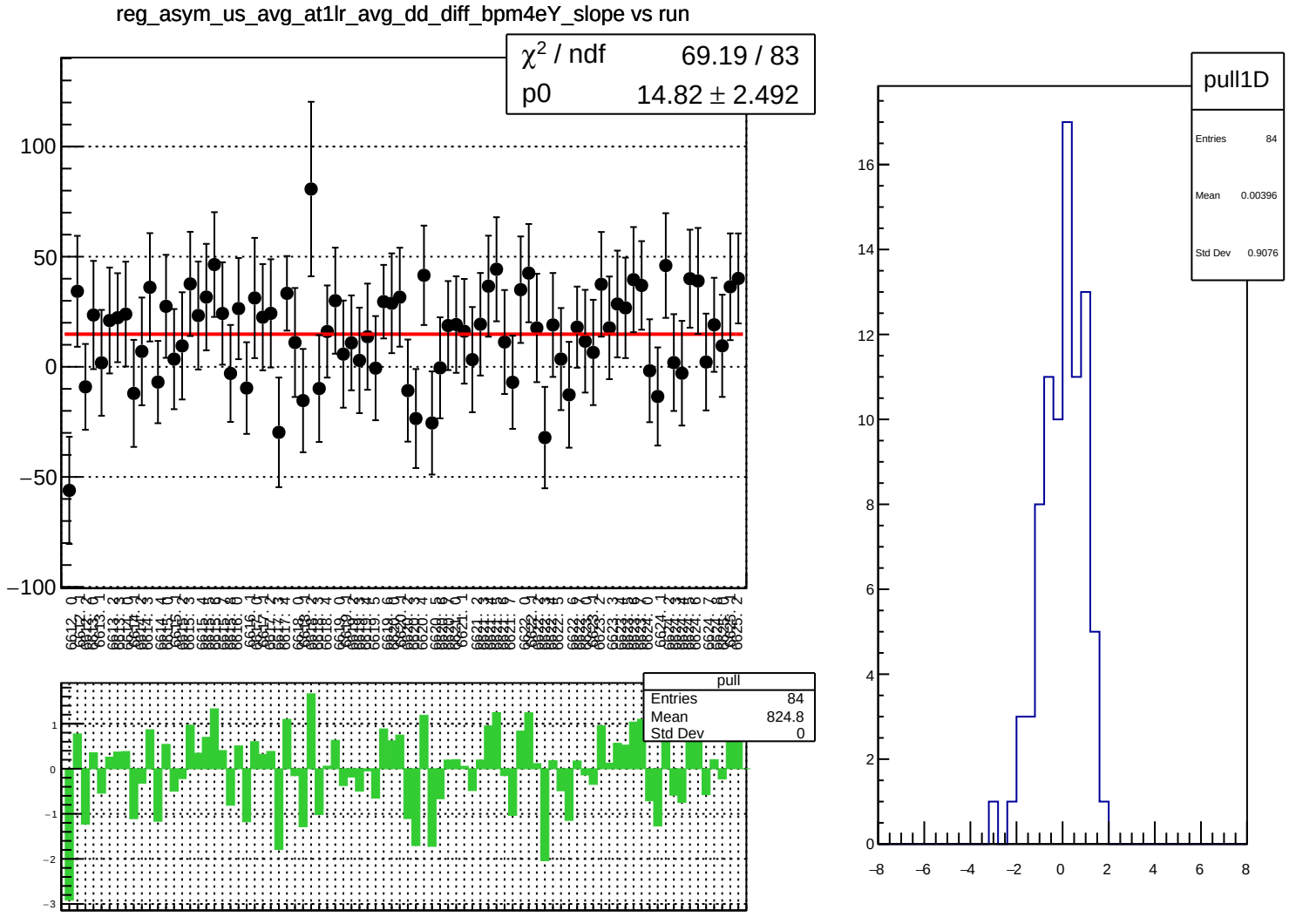

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 53.92 / 83
p0 −44.35 ± 2.9
pull
Entries 84
Mean −870.3
Std Dev 0

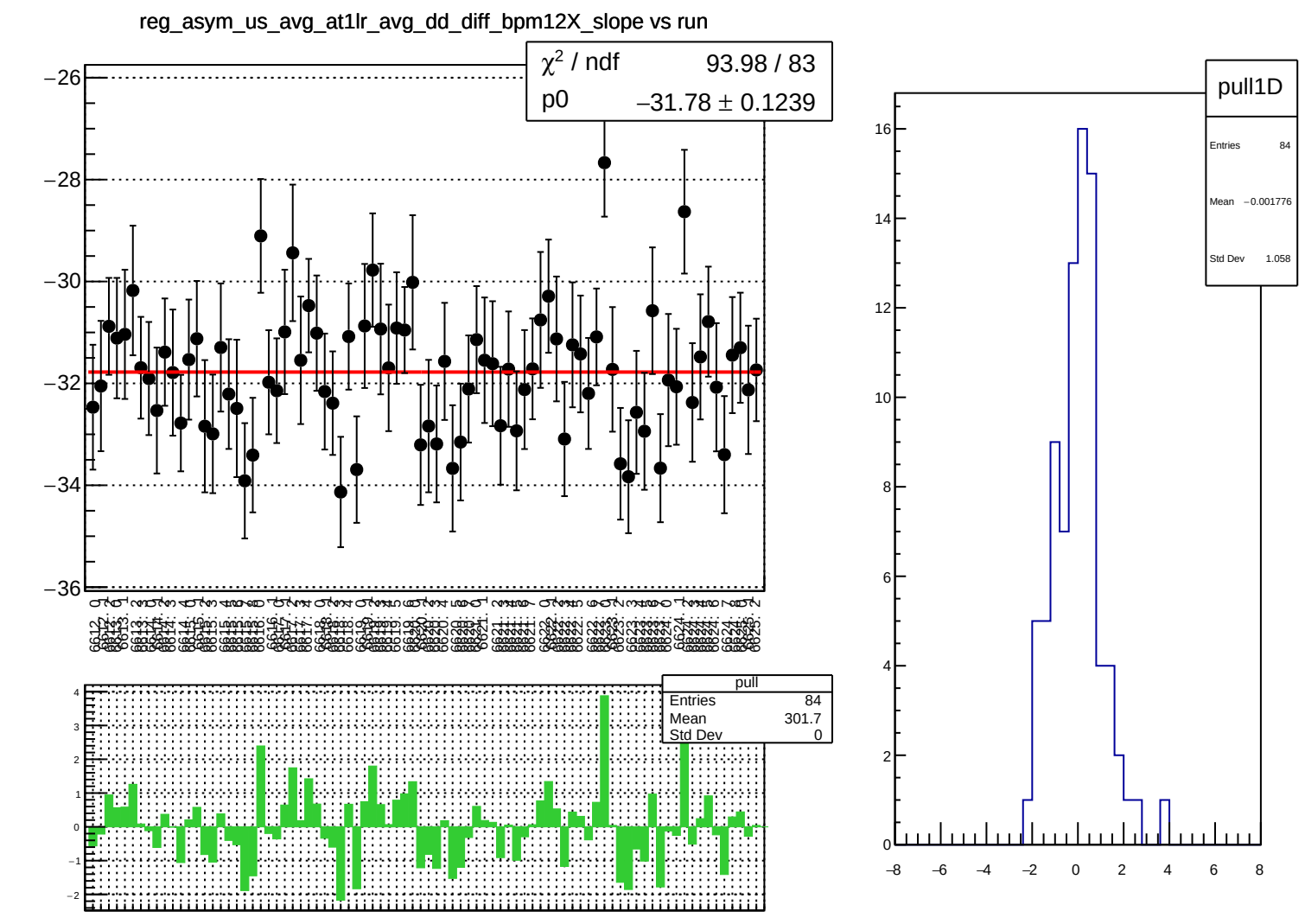

pull1D
Entries 84
Mean 0.006362
Std Dev 0.8011

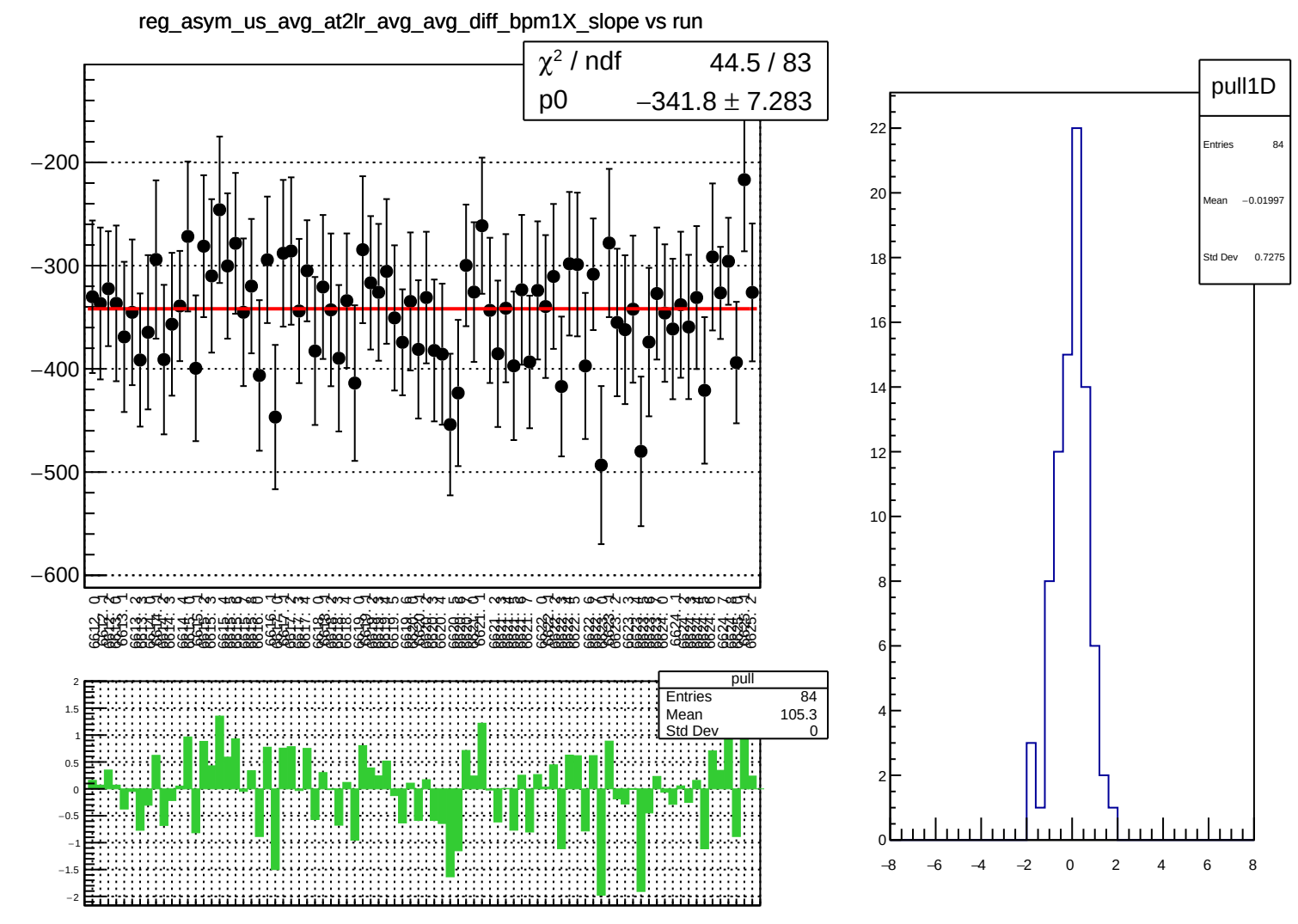

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.23 / 83
p0 5.688 ± 2.112
pull
Entries 84
Mean 601.8
Std Dev 0
pull1D
Entries 84
Mean −0.005673
Std Dev 0.9078

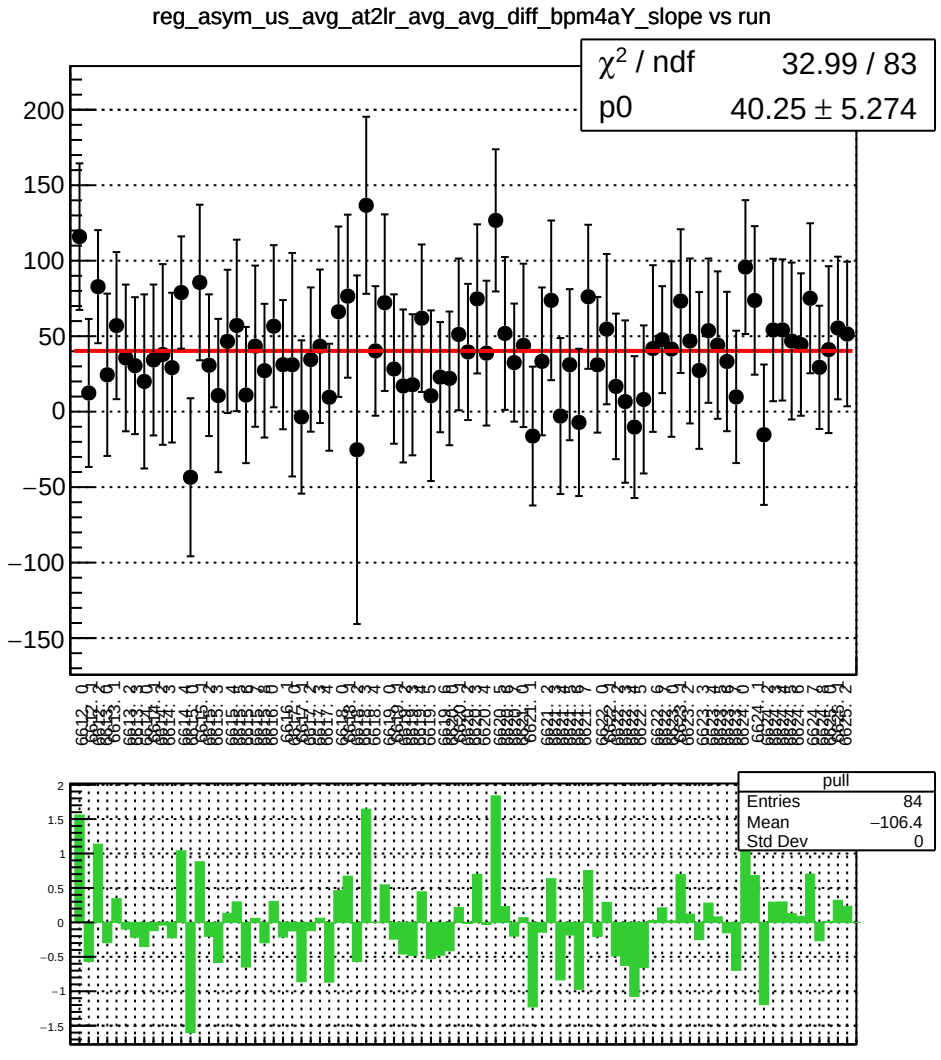

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 53.6 / 83
p0 101.2 ± 2.983
pull
Entries 84
Mean −624.2
Std Dev 0

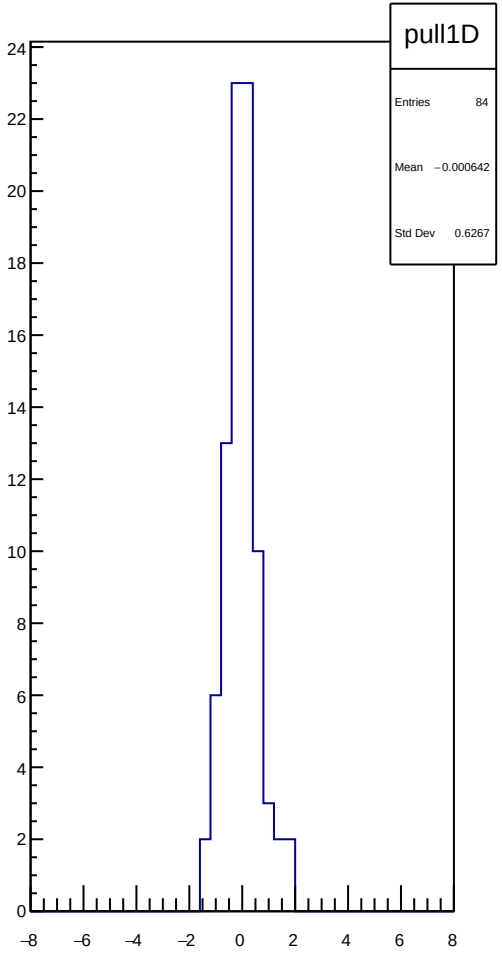

pull1D
Entries 84
Mean −0.0092
Std Dev 0.7988

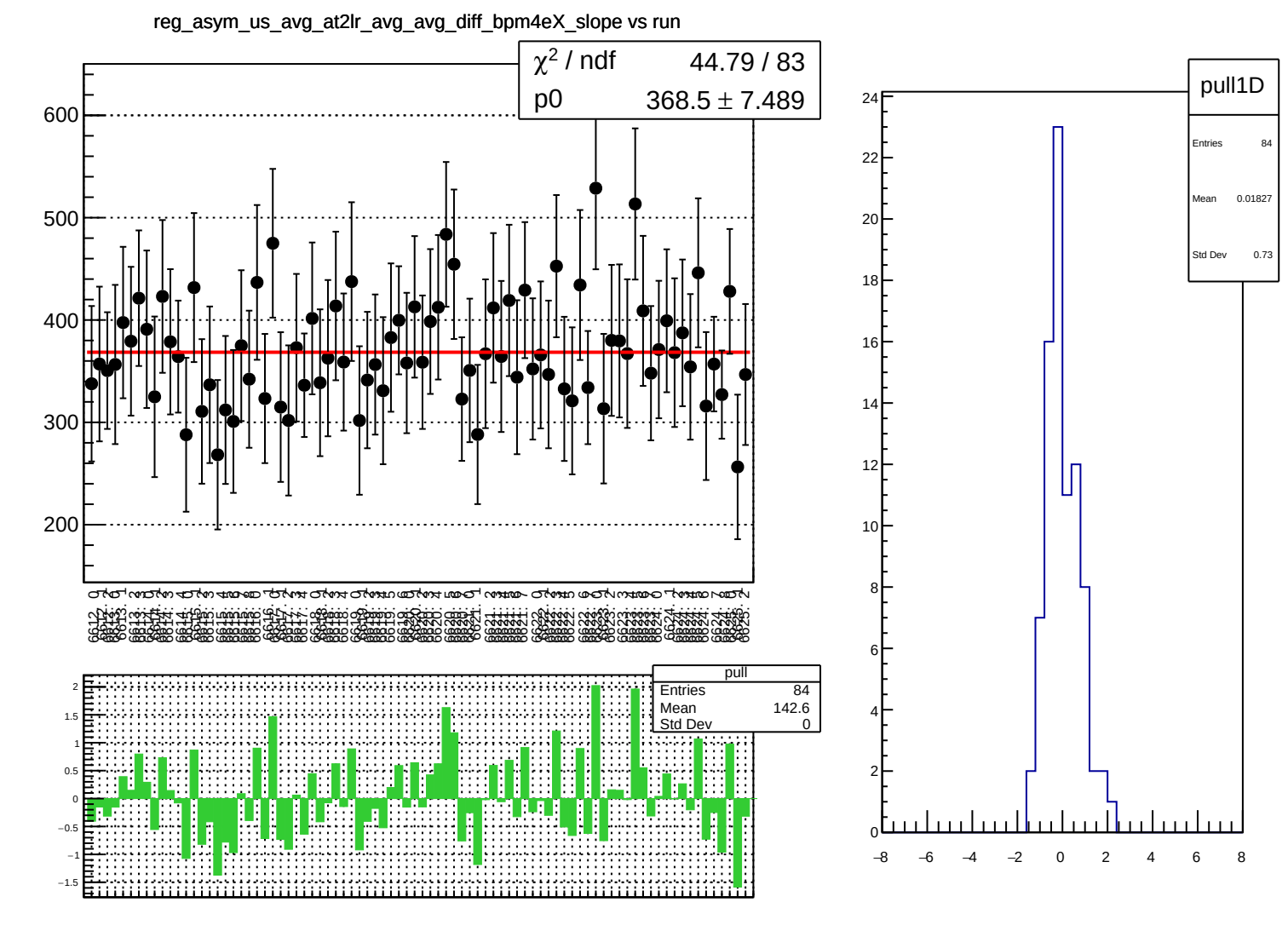

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 69.19 / 83
p0 14.82 ± 2.492
100
50
0
−50
−100
pull
Entries 84
Mean 824.8
Std Dev 0
pull1D
Entries 84
Mean 0.00396
Std Dev 0.9076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

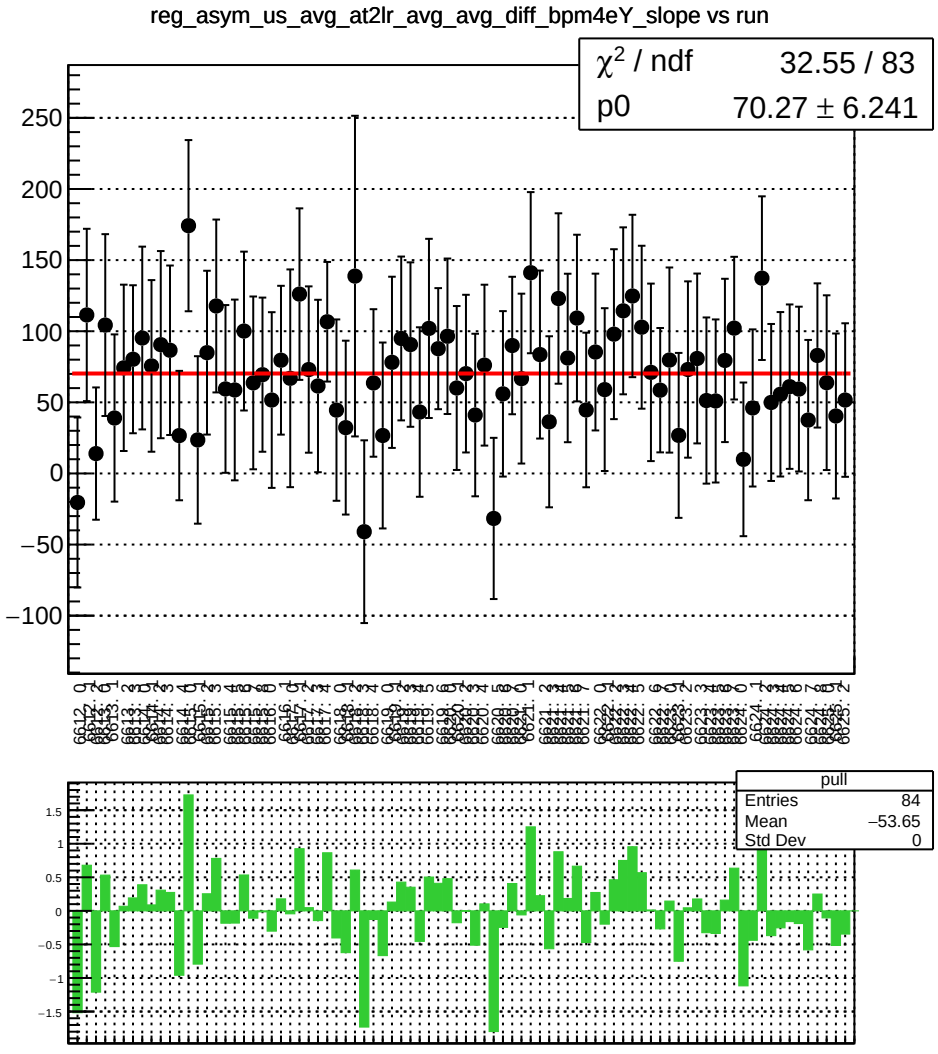

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 93.98 / 83
p0 −31.78 ± 0.1239
pull
Entries 84
Mean 301.7
Std Dev 0
pull1D
Entries 84
Mean −0.001776
Std Dev 1.058

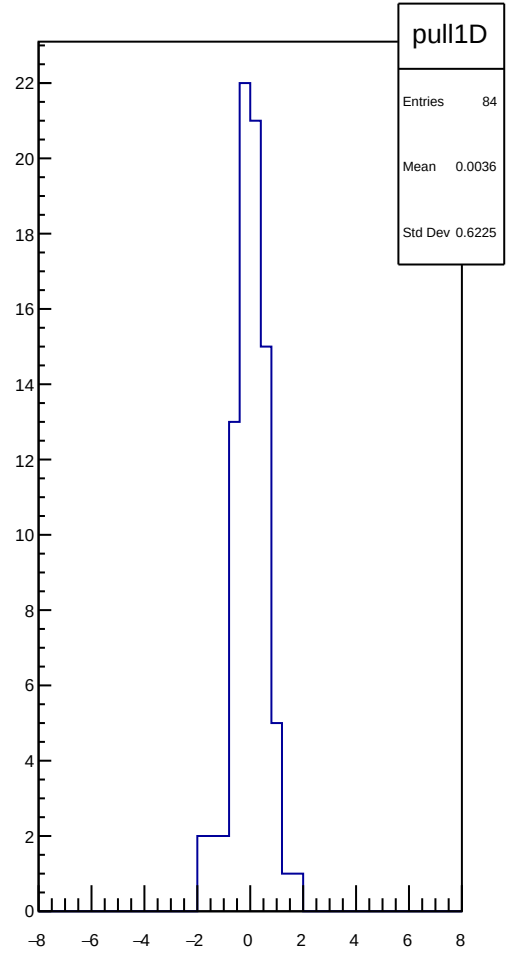

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 44.5 / 83
p0 −341.8 ± 7.283
−200
−300
−400
−500
−600
pull
Entries 84
Mean 105.3
Std Dev 0
pull1D
Entries 84
Mean −0.01997
Std Dev 0.7275

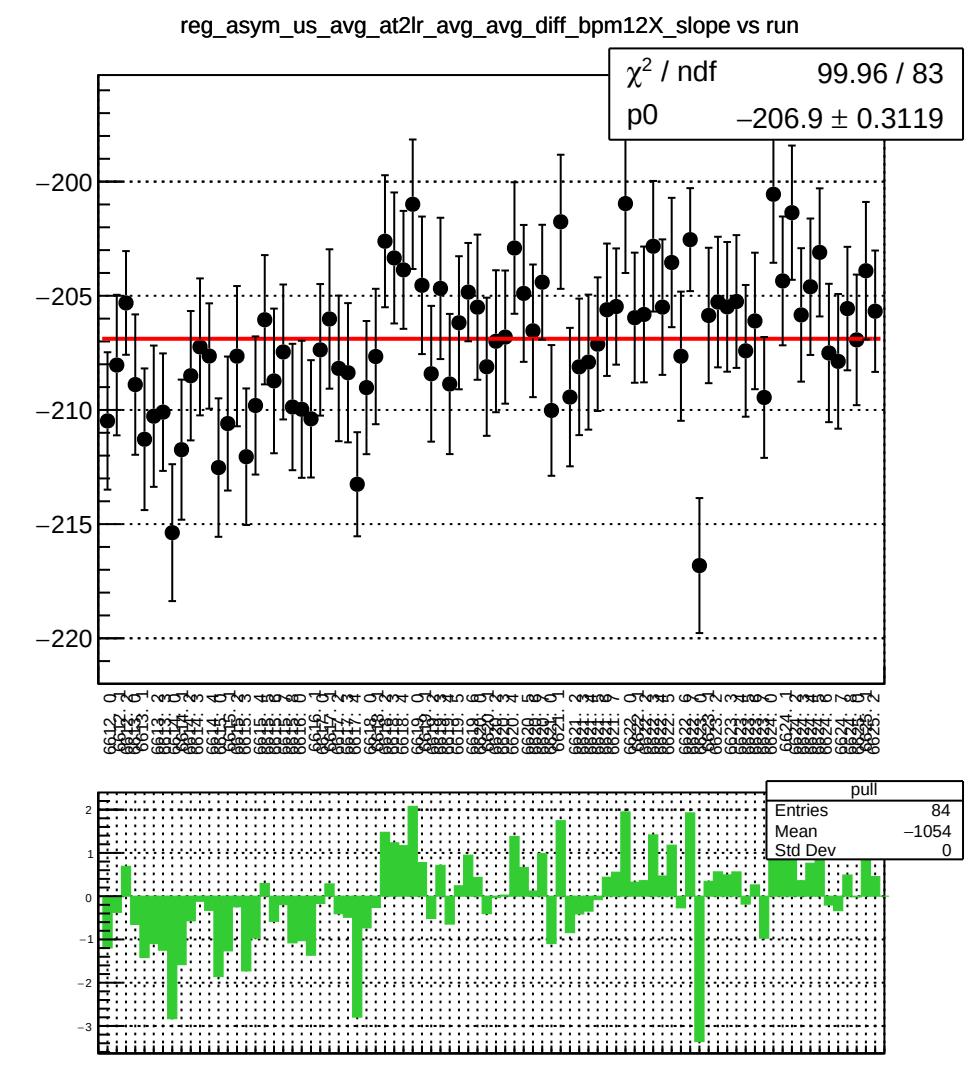

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.99 / 83
p0 40.25 ± 5.274
pull
Entries 84
Mean −106.4
Std Dev 0

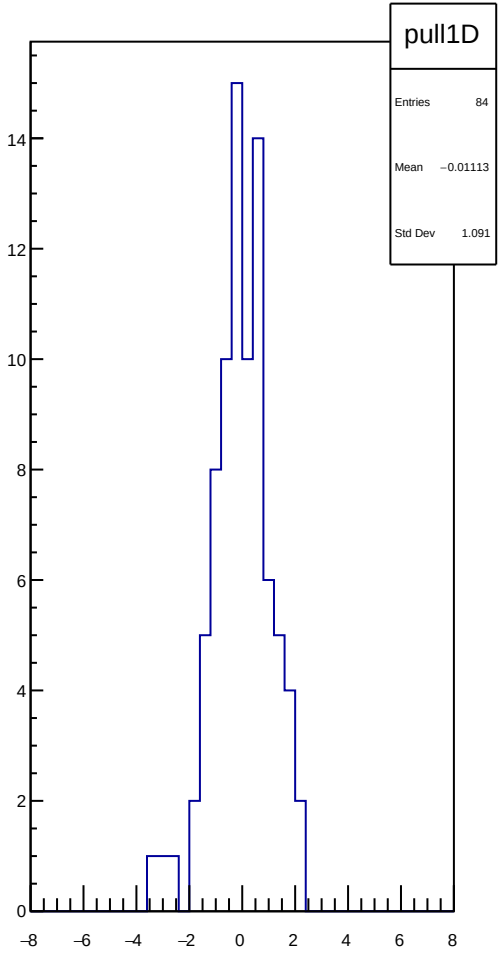

pull1D
Entries 84
Mean −0.000642
Std Dev 0.6267

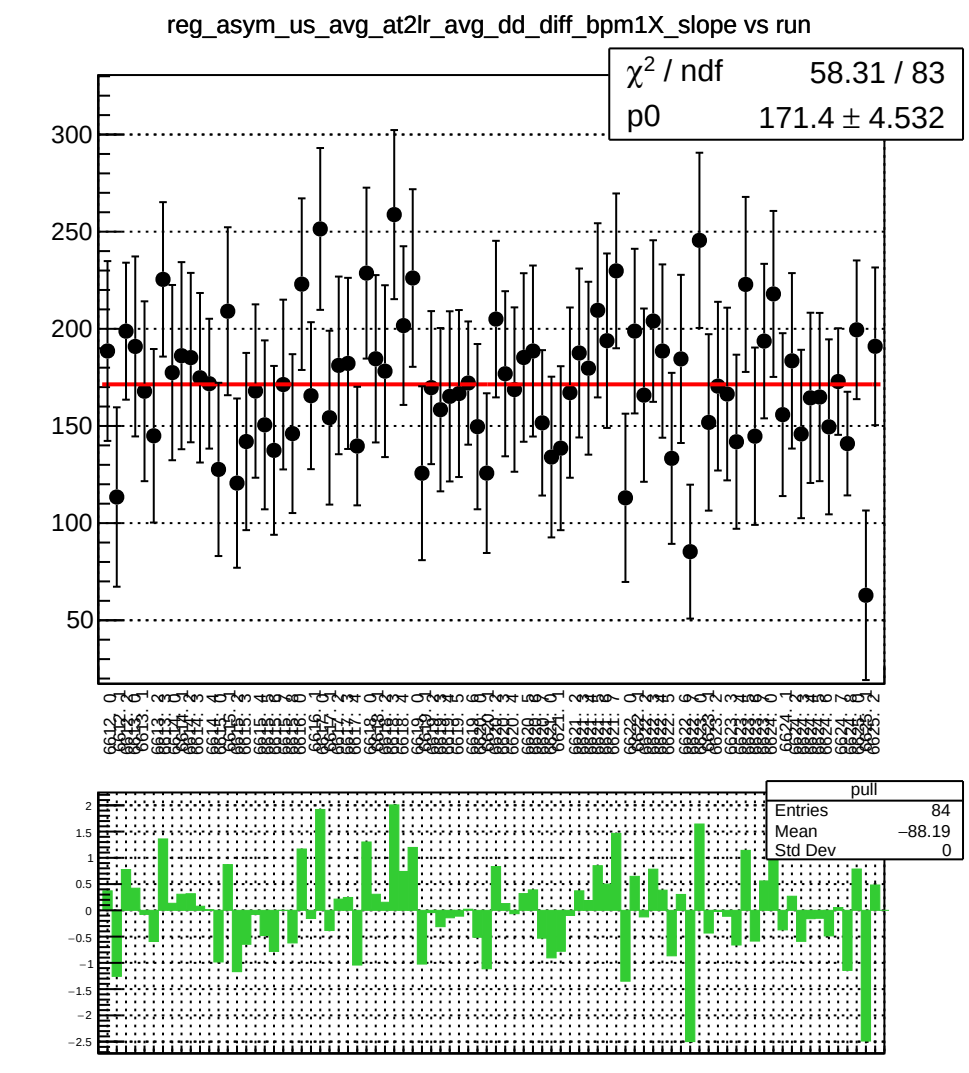

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.79 / 83
p0 368.5 ± 7.489
600
500
400
300
200
pull
Entries 84
Mean 142.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.01827
Std Dev 0.73
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

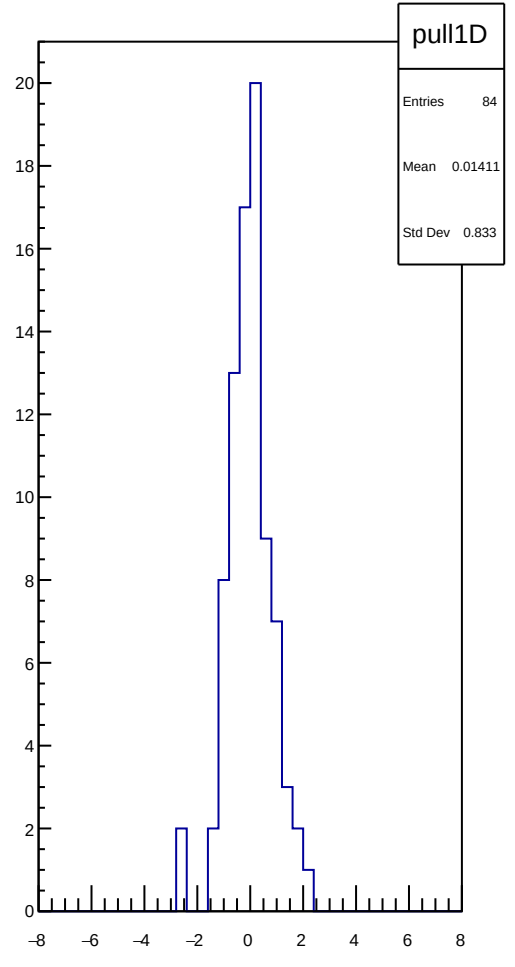

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.55 / 83
p0 70.27 ± 6.241
pull
Entries 84
Mean −53.65
Std Dev 0

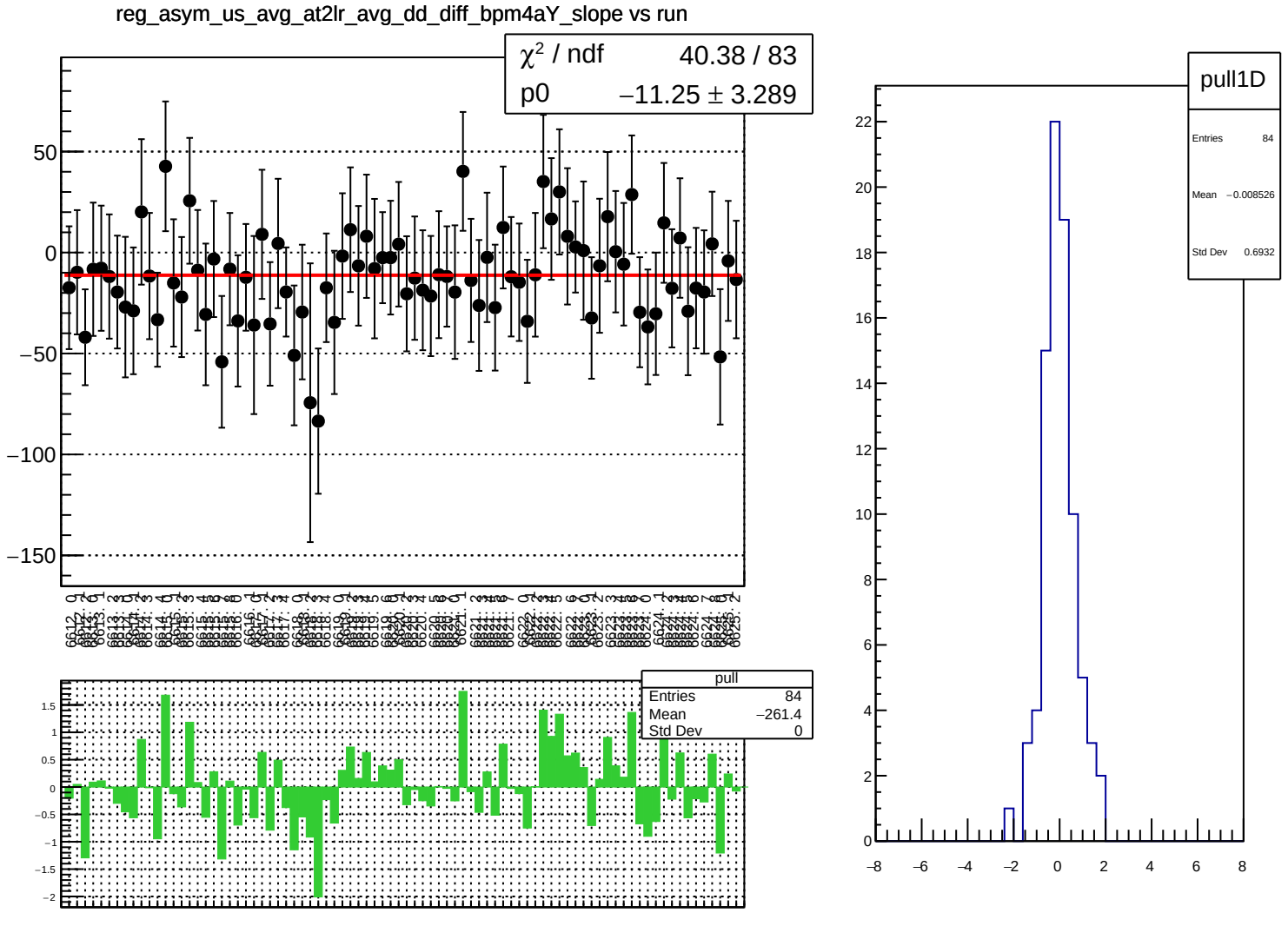

pull1D
Entries 84
Mean 0.0036
Std Dev 0.6225

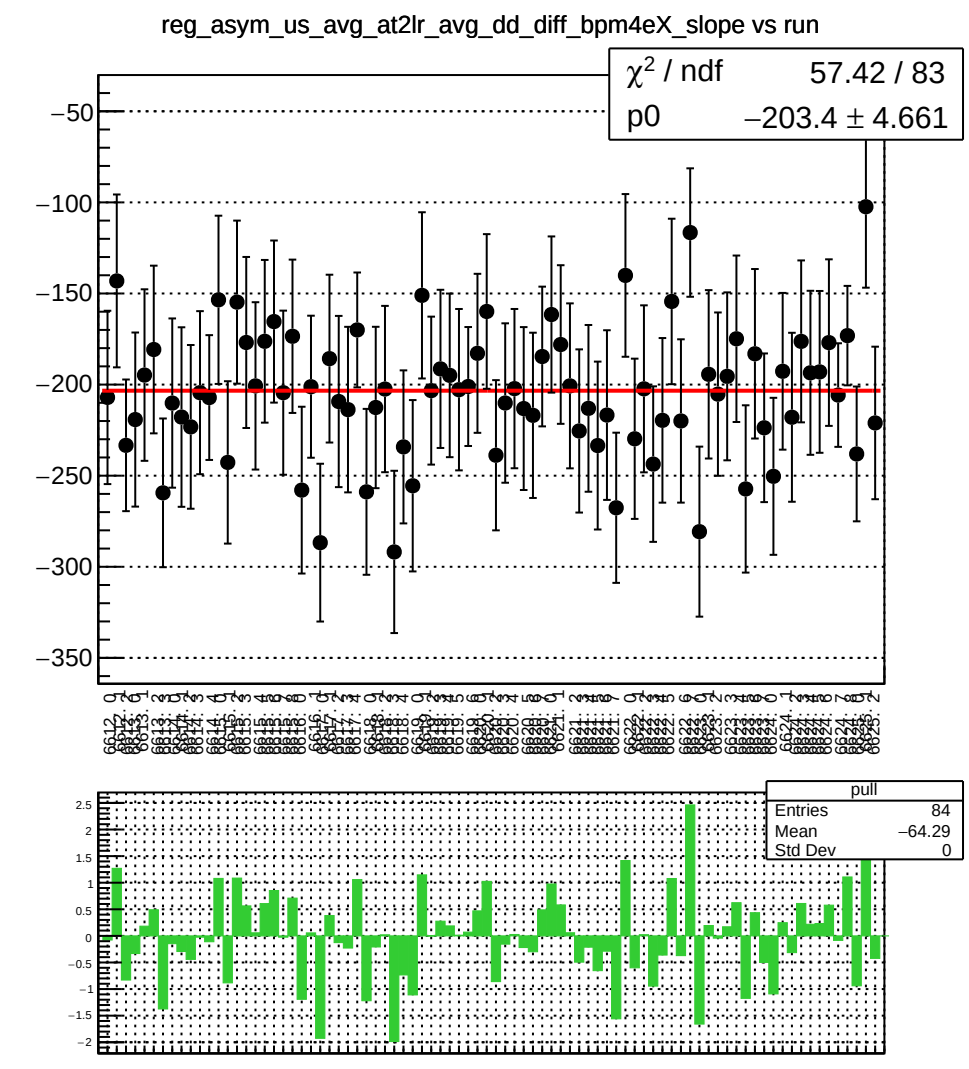

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 99.96 / 83
p0 −206.9 ± 0.3119
−200
−205
−210
−215
−220
pull
Entries 84
Mean −1054
Std Dev 0
2
1
0
−1
−2
−3

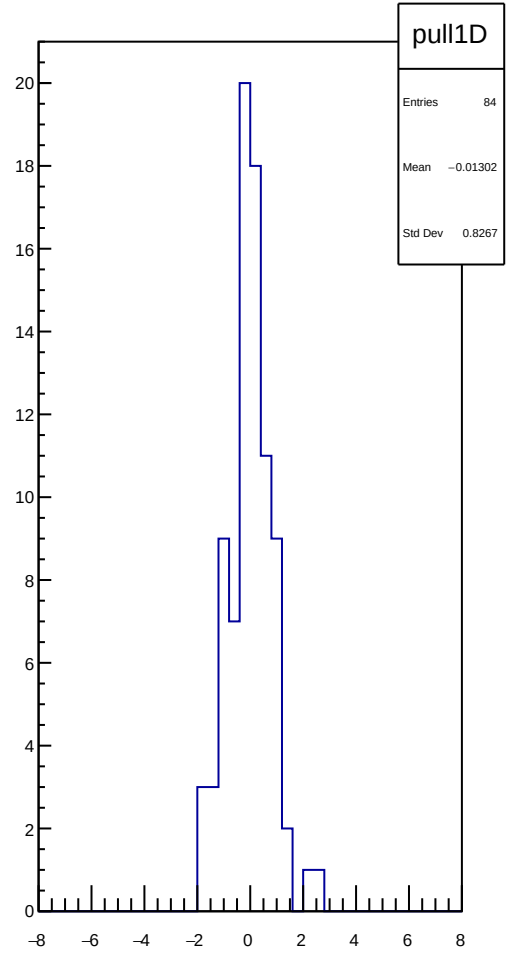

pull1D
Entries 84
Mean −0.01113
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

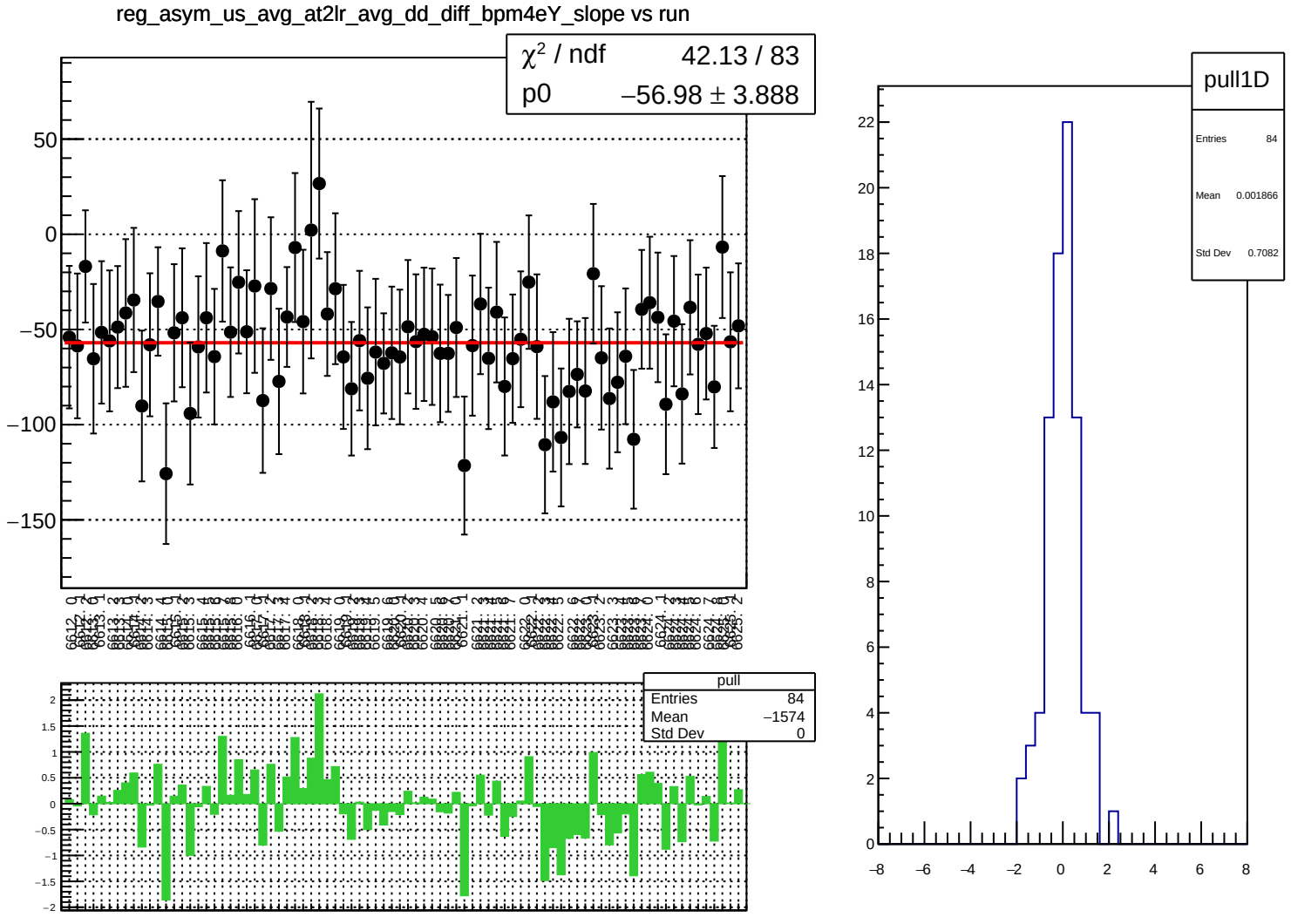

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 58.31 / 83
p0 171.4 ± 4.532
pull
Entries 84
Mean −88.19
Std Dev 0

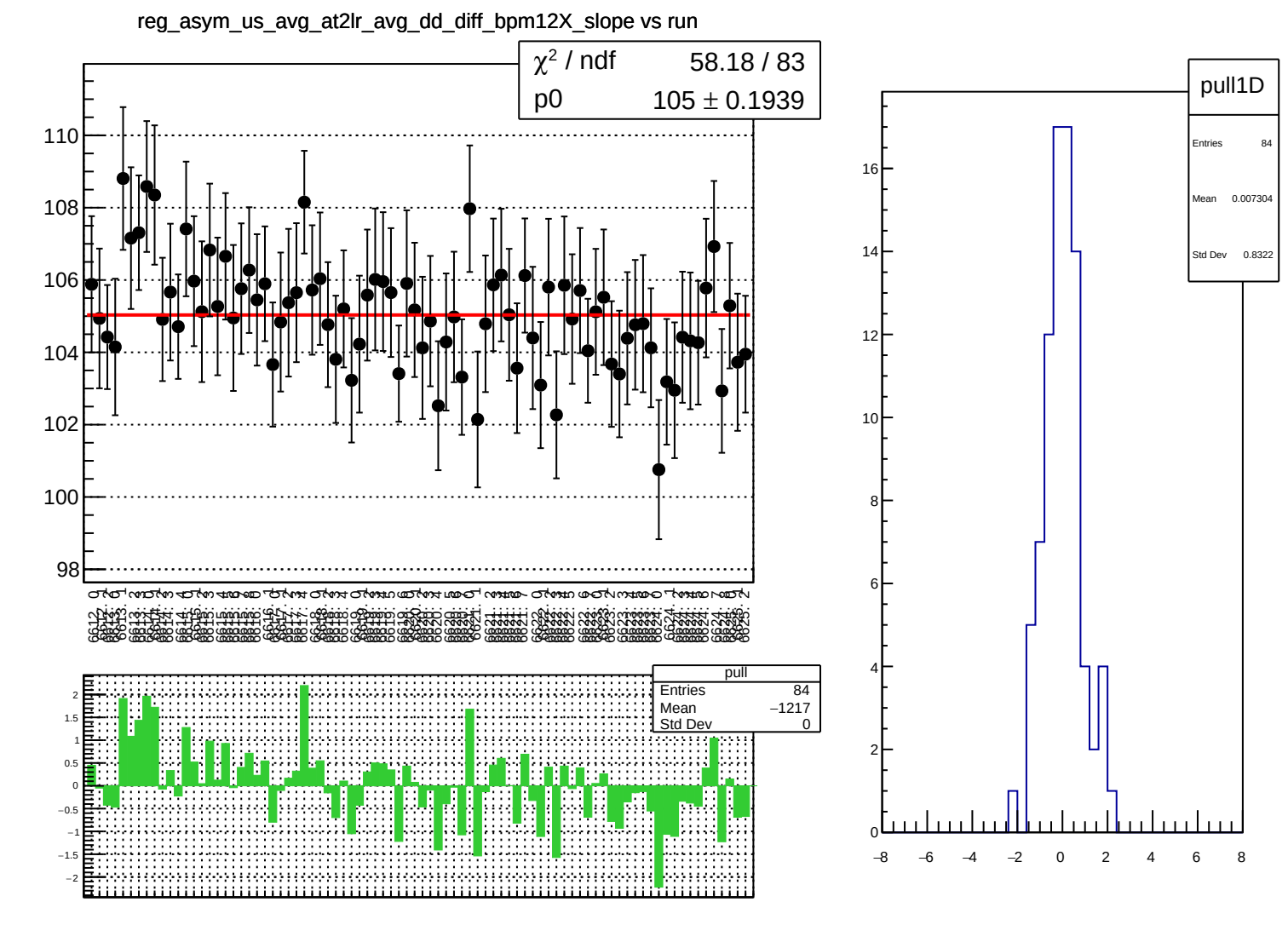

pull1D
Entries 84
Mean 0.01411
Std Dev 0.833

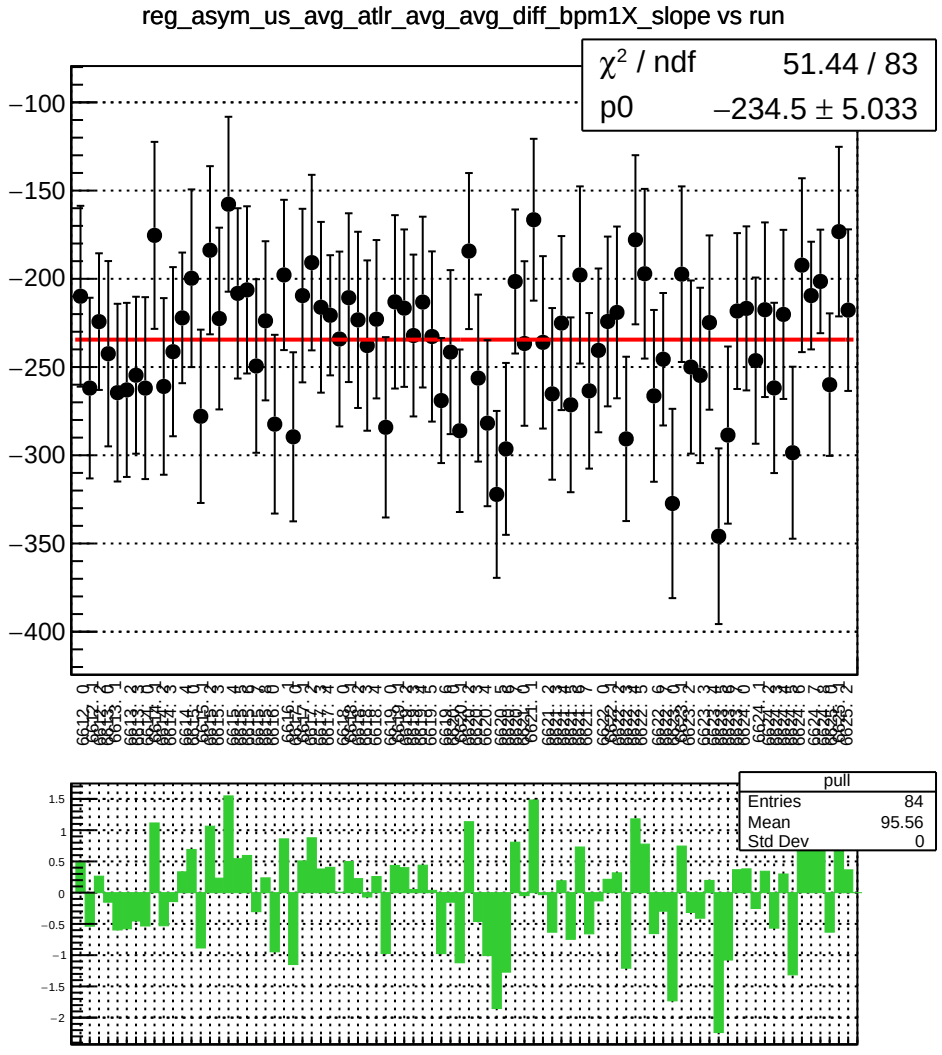

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.38 / 83
p0 −11.25 ± 3.289
50
0
−50
−100
−150
pull
Entries 84
Mean −261.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.008526
Std Dev 0.6932
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

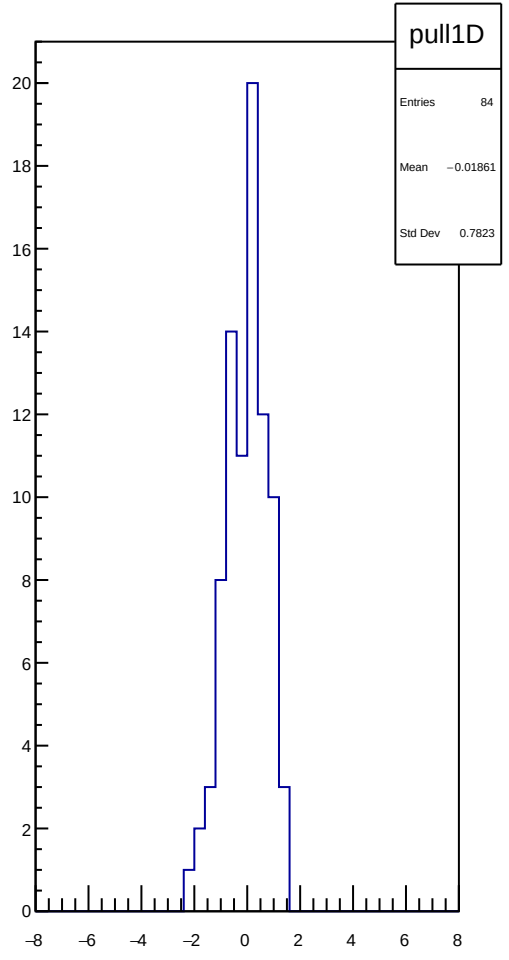

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.42 / 83
p0 −203.4 ± 4.661
pull
Entries 84
Mean −64.29
Std Dev 0

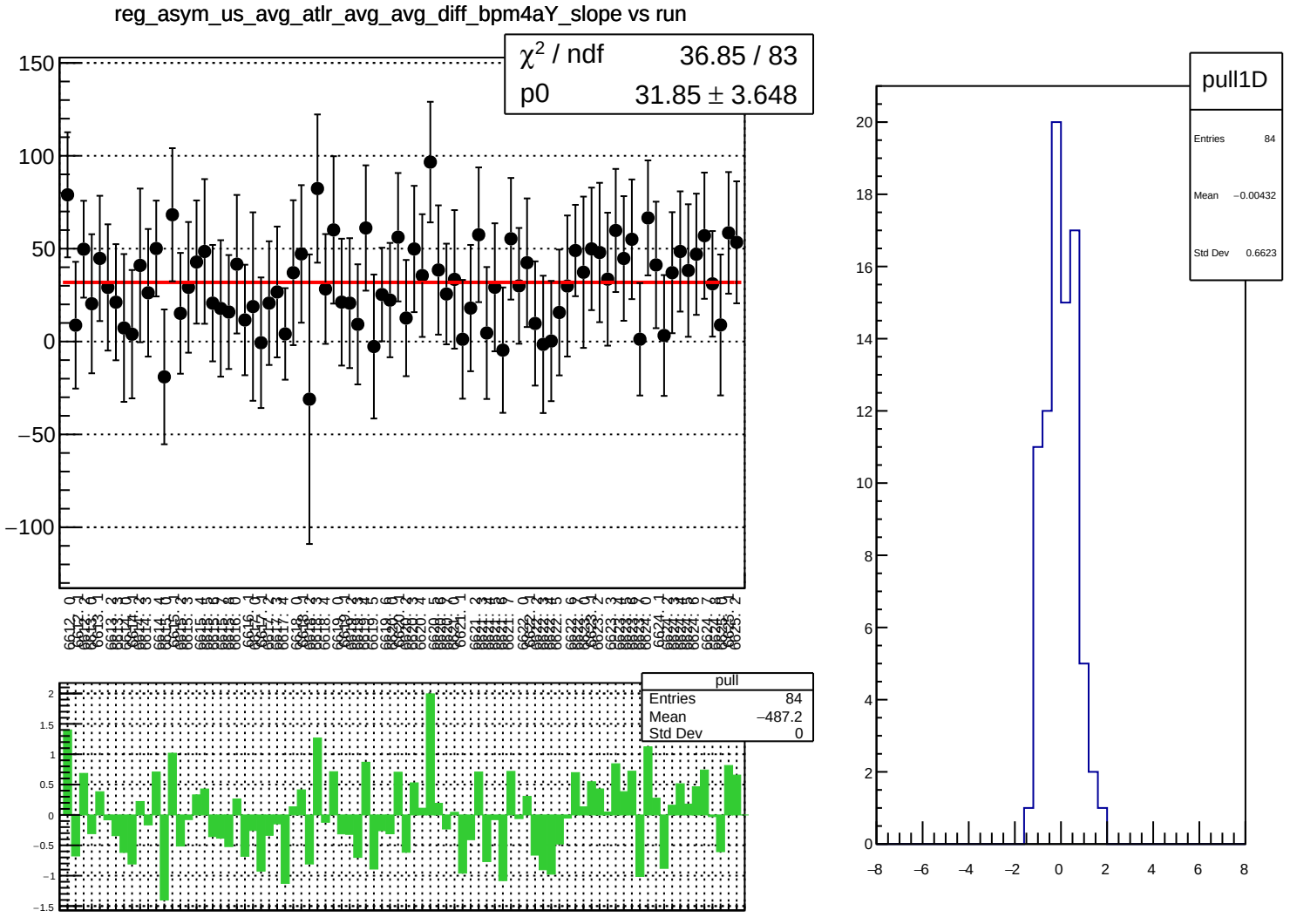

pull1D
Entries 84
Mean −0.01302
Std Dev 0.8267

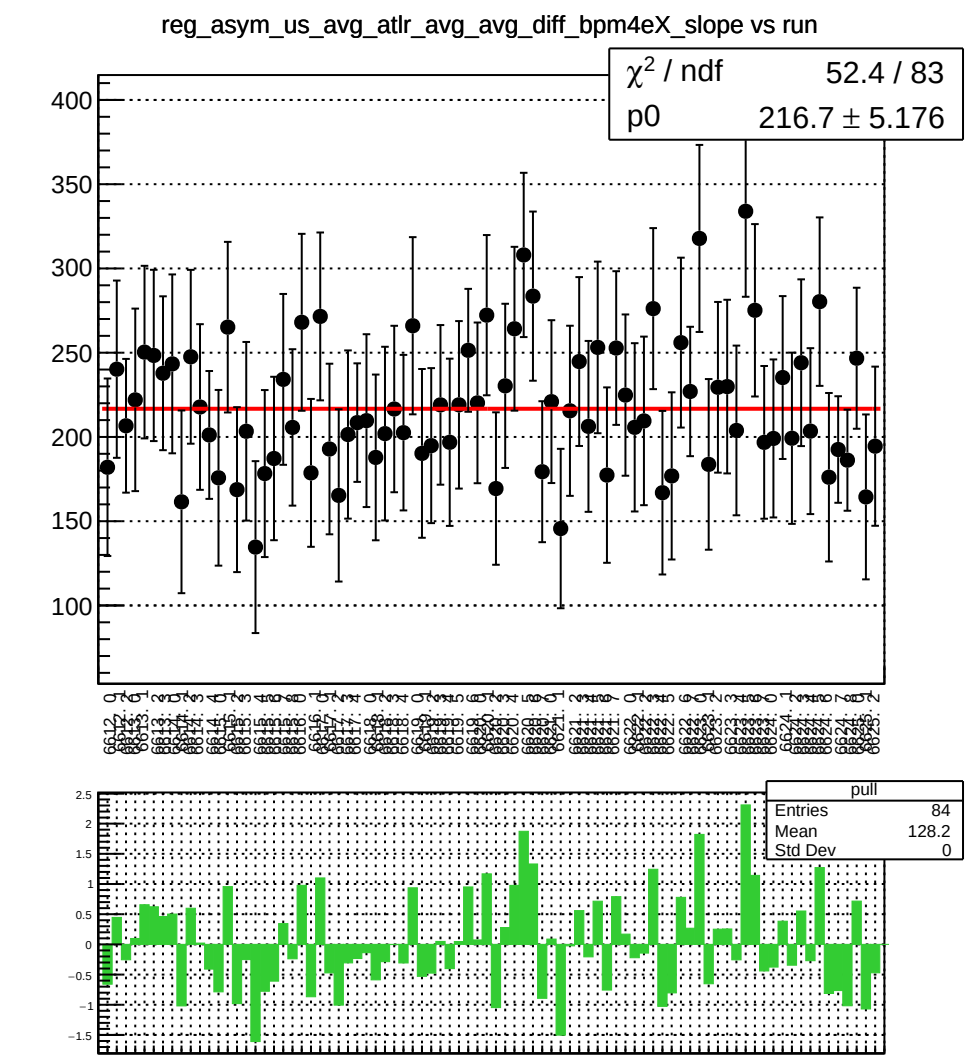

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.13 / 83
p0 −56.98 ± 3.888
50
0
−50
−100
−150
pull
Entries 84
Mean −1574
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.001866
Std Dev 0.7082
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

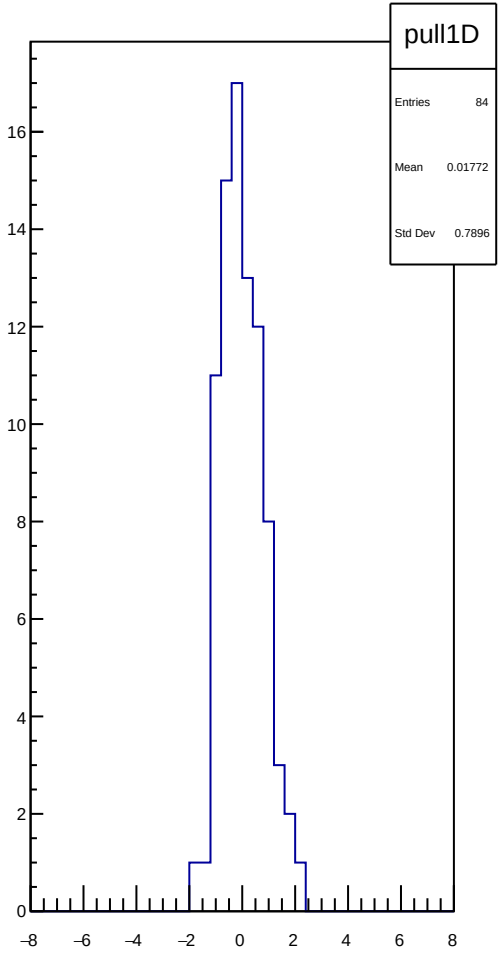

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 58.18 / 83
p0 105 ± 0.1939
110
108
106
104
102
100
98
pull
Entries 84
Mean −1217
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.007304
Std Dev 0.8322
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

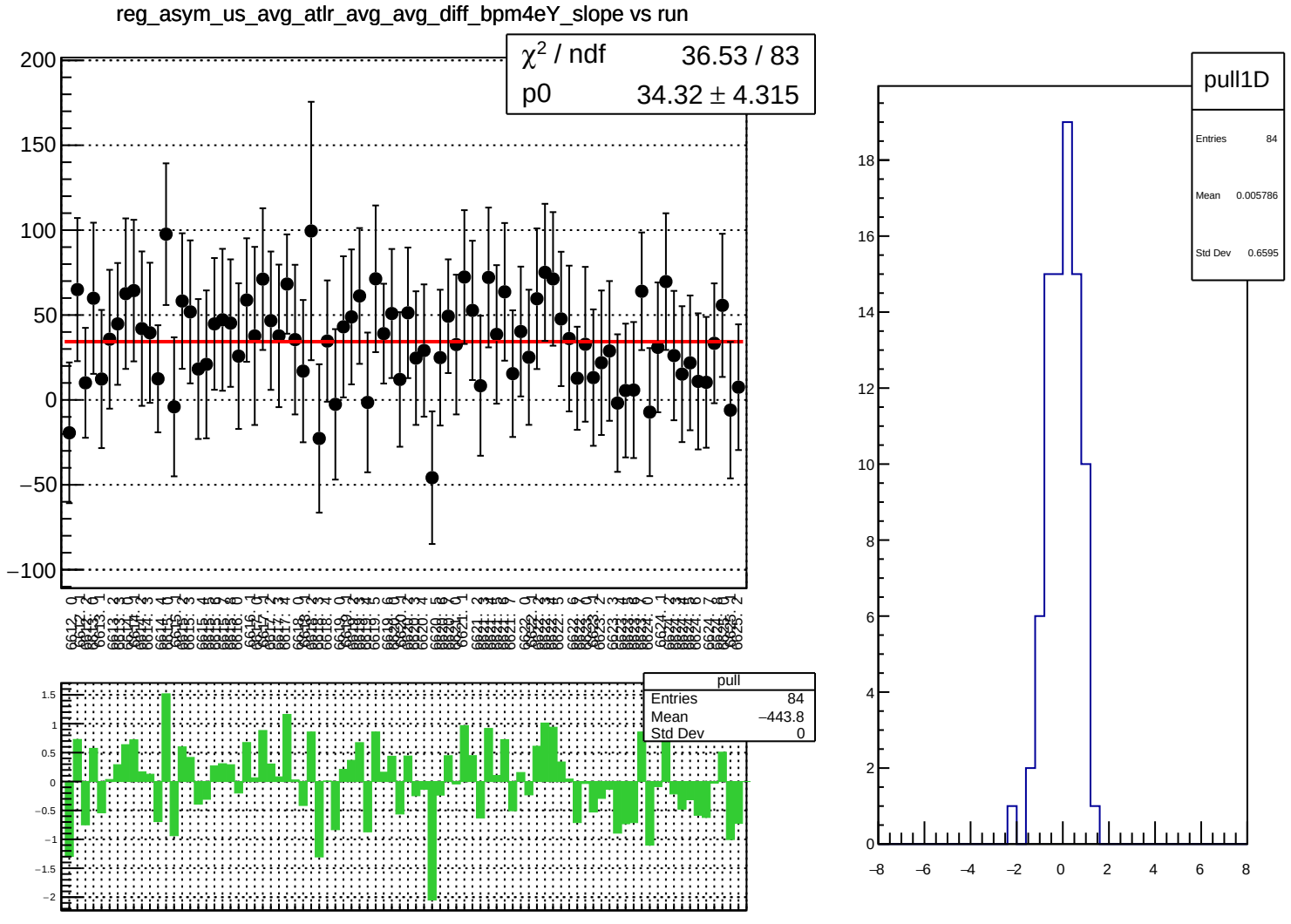

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 51.44 / 83
p0 −234.5 ± 5.033
pull
Entries 84
Mean 95.56
Std Dev 0

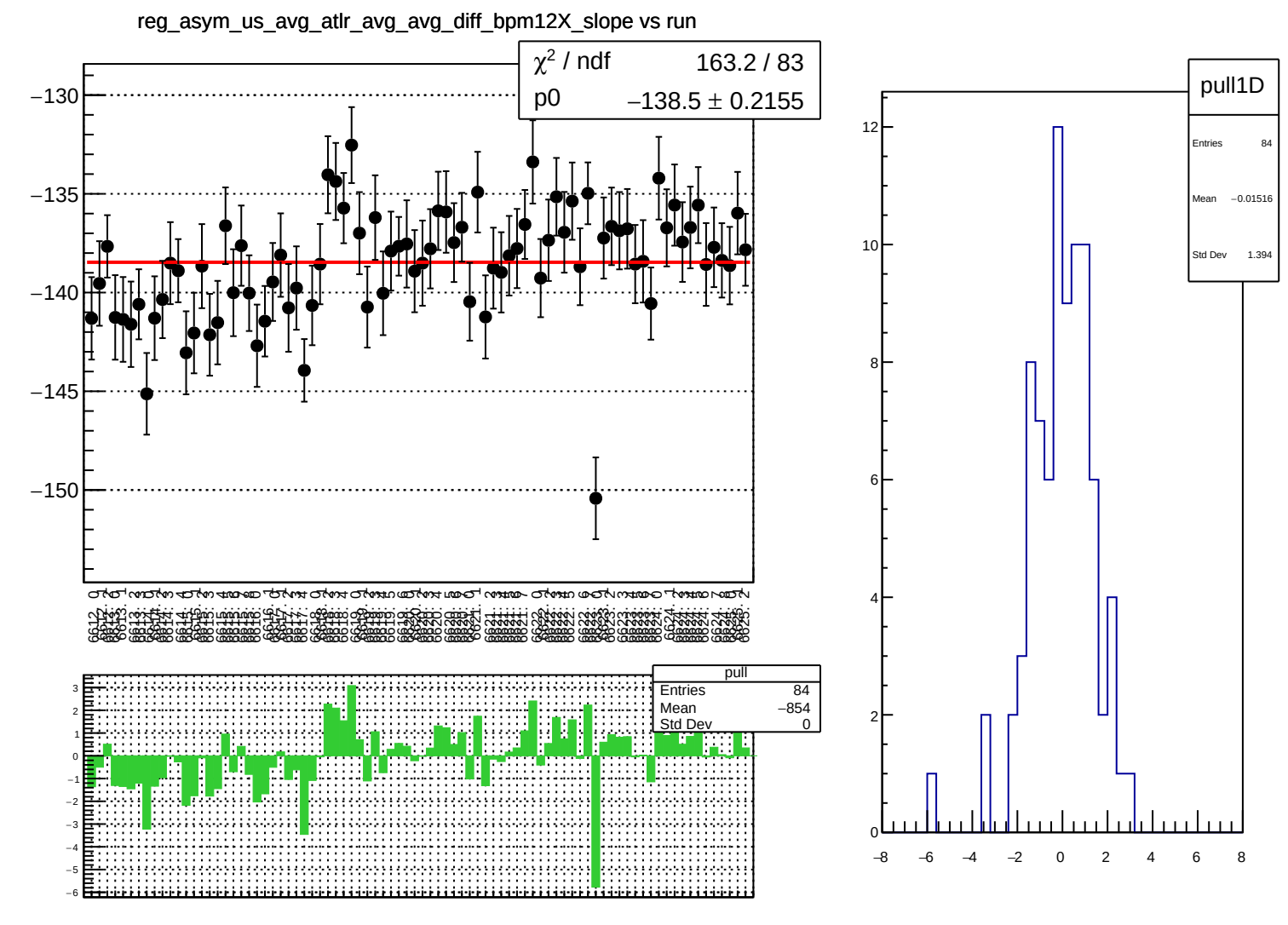

pull1D
Entries 84
Mean −0.01861
Std Dev 0.7823

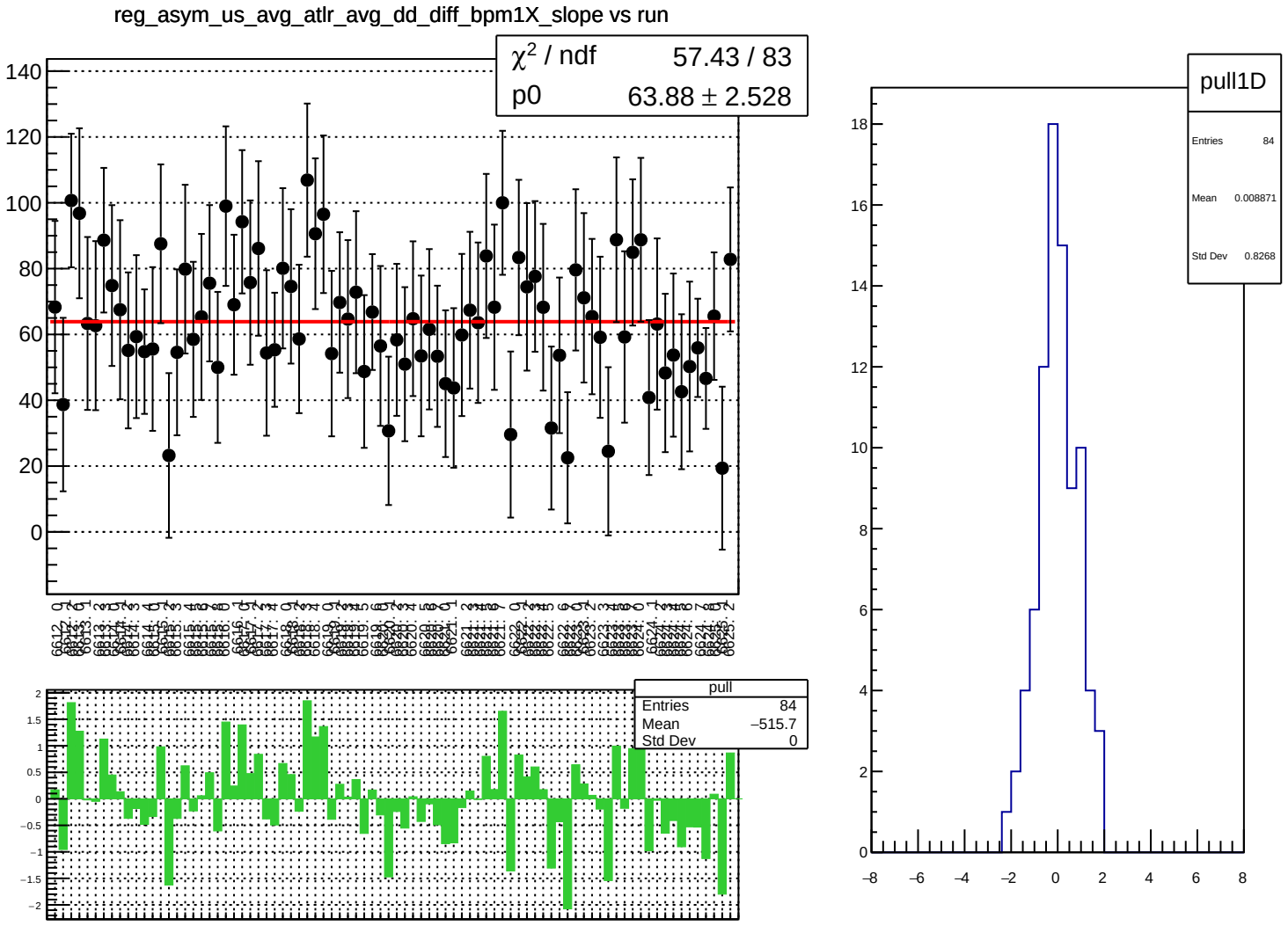

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.85 / 83
p0 31.85 ± 3.648
150
100
50
0
−50
−100
pull
Entries 84
Mean −487.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean −0.00432
Std Dev 0.6623
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

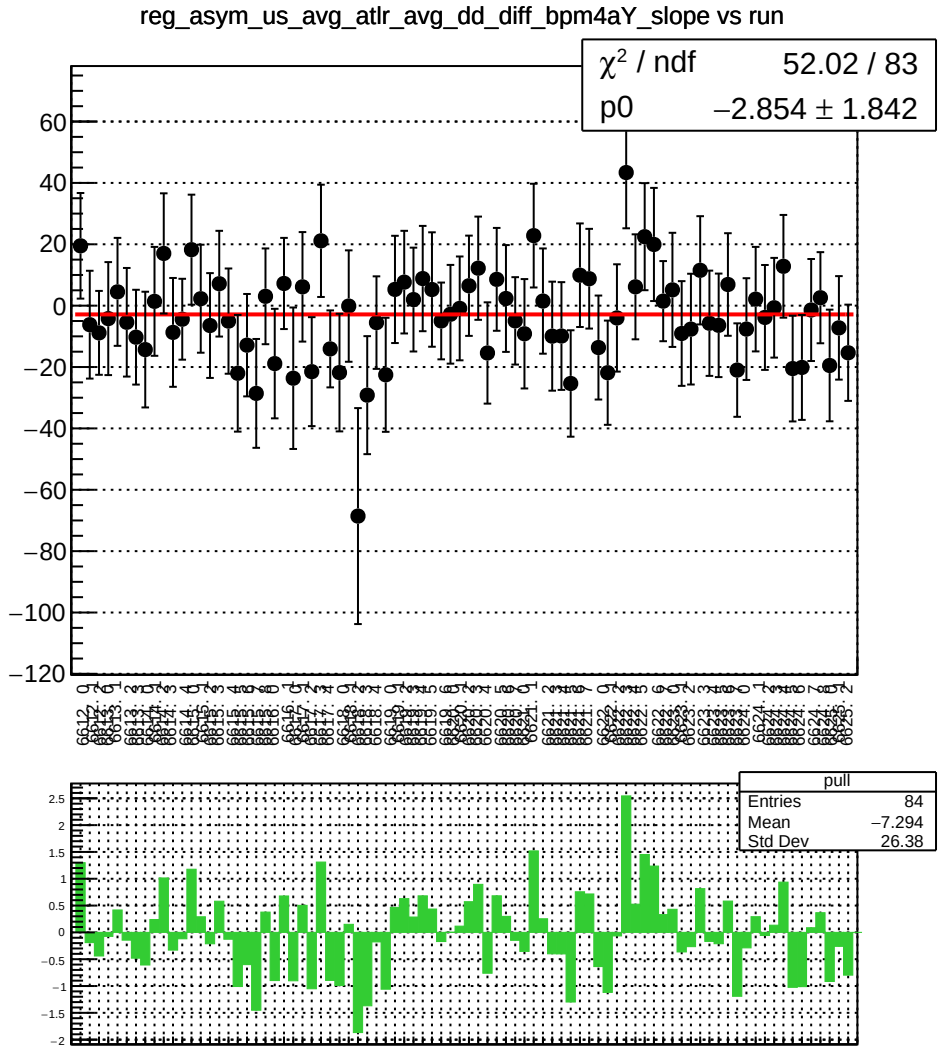

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.4 / 83
p0 216.7 ± 5.176
400
350
300
250
200
150
100
pull
Entries 84
Mean 128.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

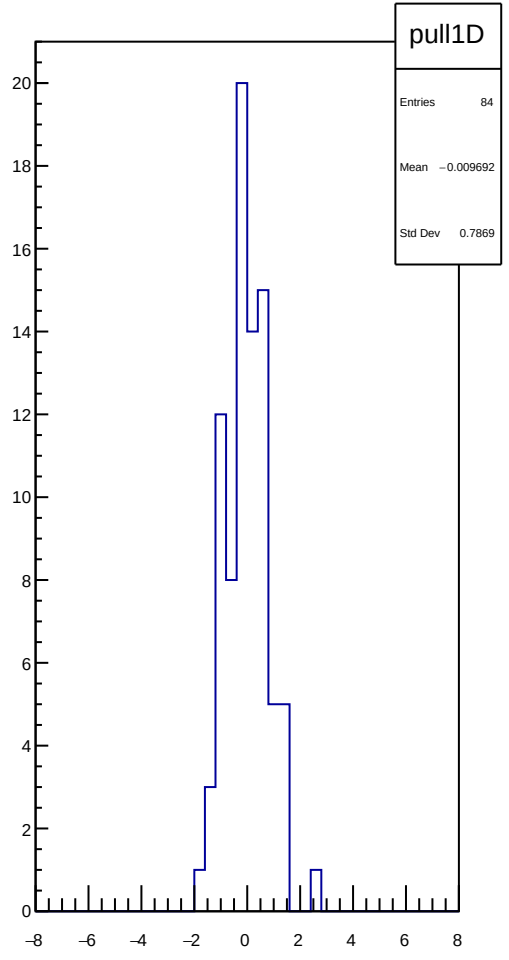

pull1D
Entries 84
Mean 0.01772
Std Dev 0.7896
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

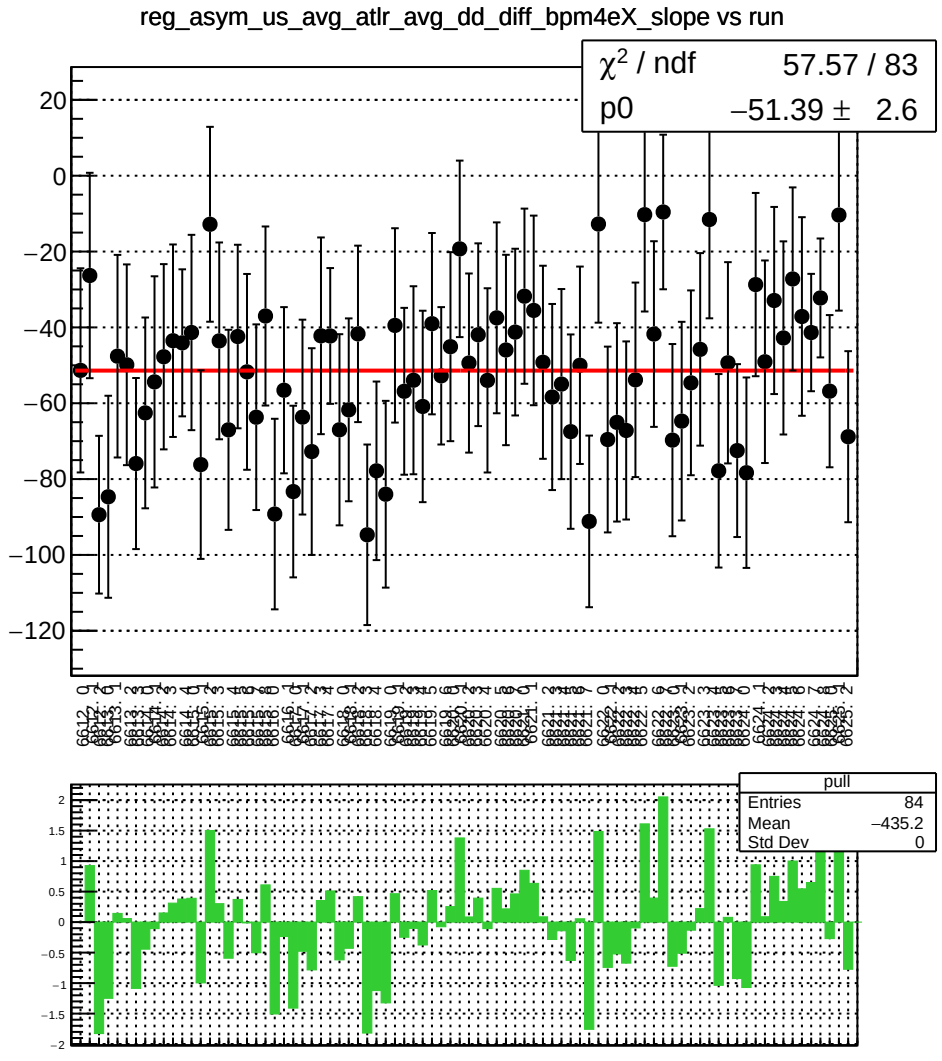

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.53 / 83
p0 34.32 ± 4.315
pull
Entries 84
Mean −443.8
Std Dev 0
pull1D
Entries 84
Mean 0.005786
Std Dev 0.6595

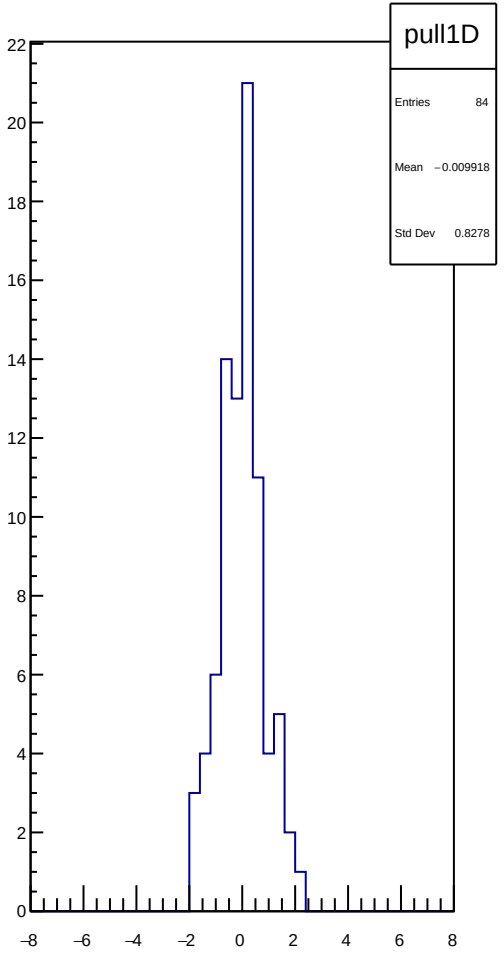

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 163.2 / 83
p0 −138.5 ± 0.2155
pull
Entries 84
Mean −854
Std Dev 0
pull1D
Entries 84
Mean −0.01516
Std Dev 1.394

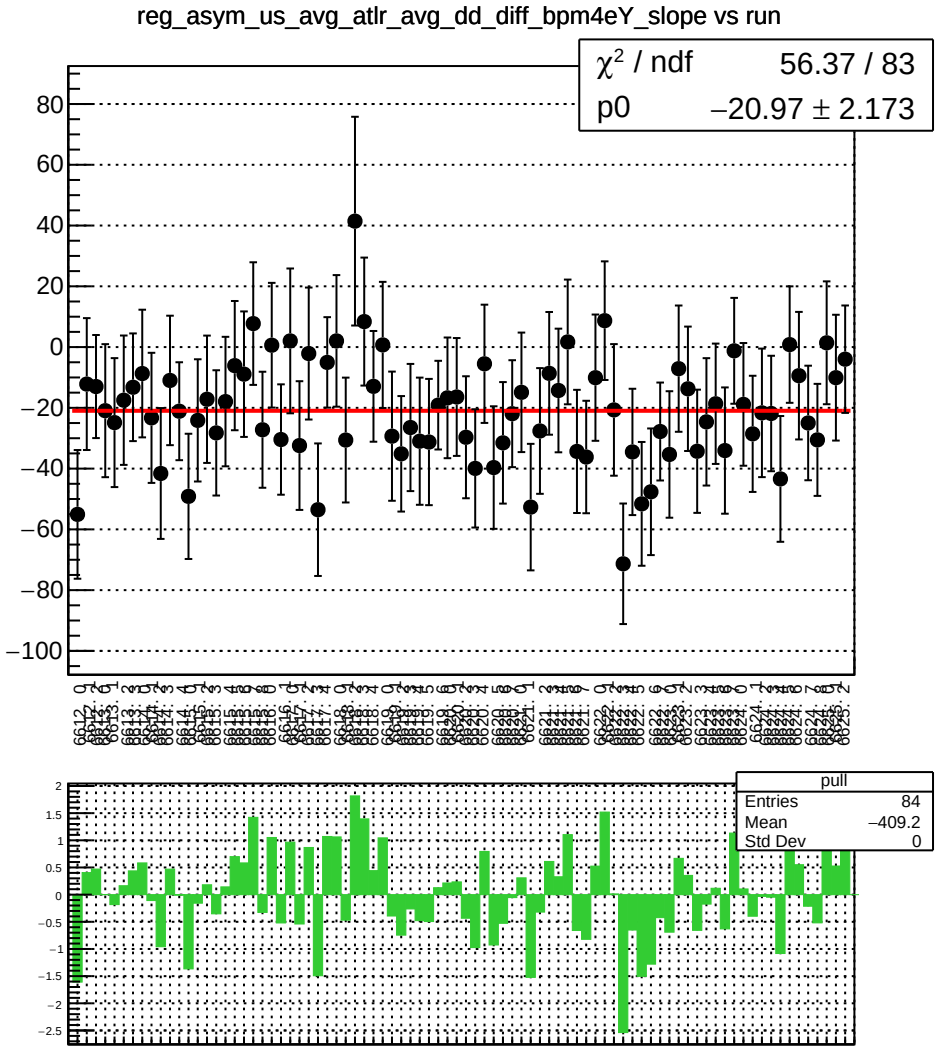

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 57.43 / 83
p0 63.88 ± 2.528
pull
Entries 84
Mean −515.7
Std Dev 0
pull1D
Entries 84
Mean 0.008871
Std Dev 0.8268

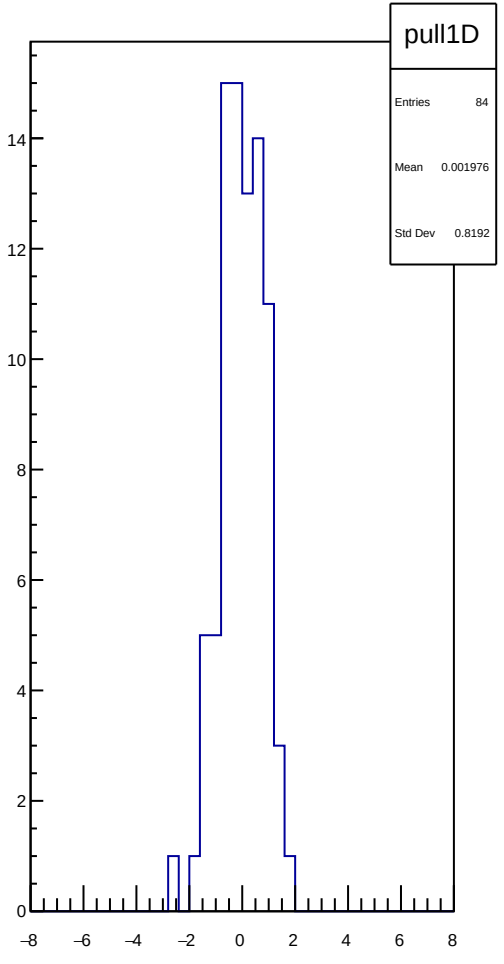

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.02 / 83
p0 −2.854 ± 1.842
pull
Entries 84
Mean −7.294
Std Dev 26.38

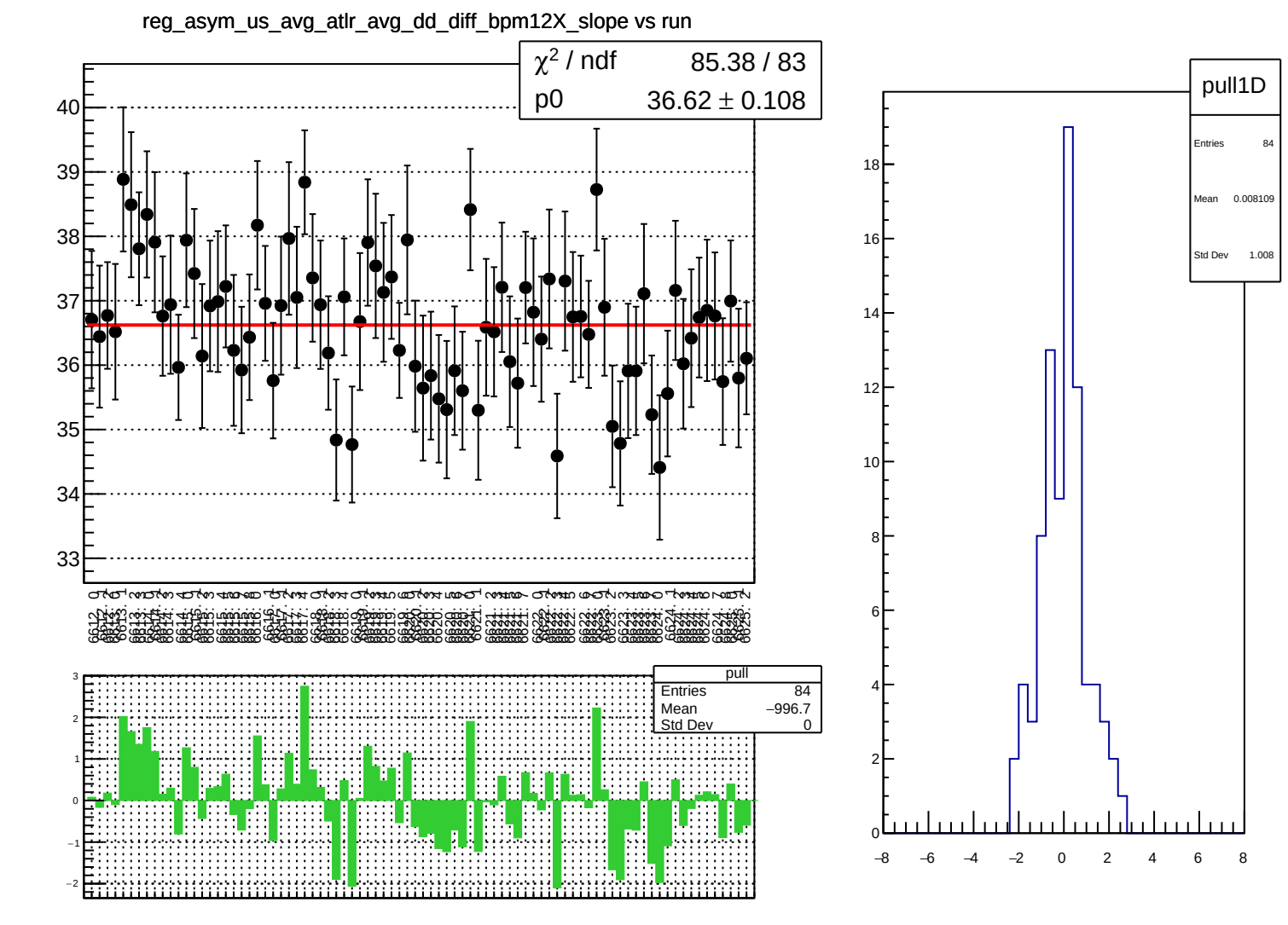

pull1D
Entries 84
Mean −0.009692
Std Dev 0.7869

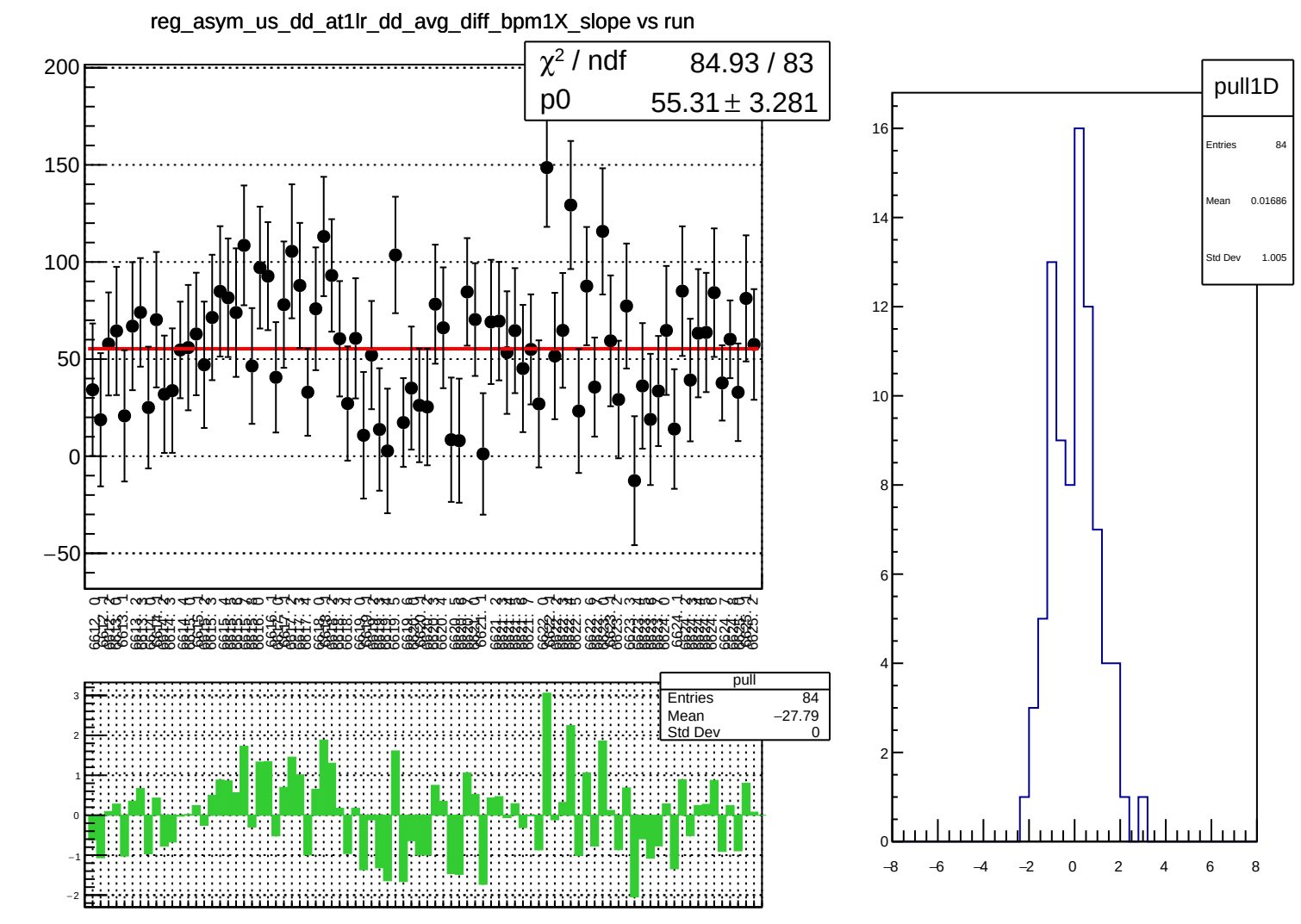

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.57 / 83
p0 −51.39 ± 2.6
pull
Entries 84
Mean −435.2
Std Dev 0

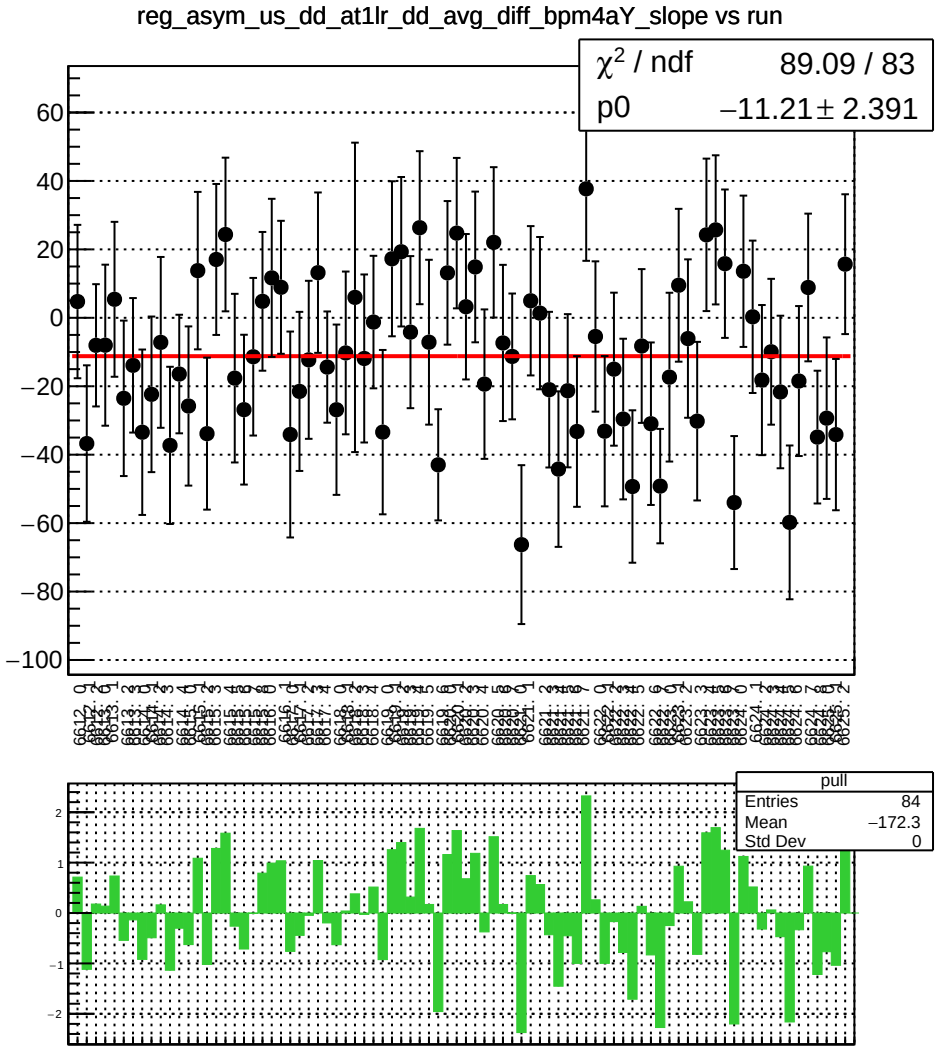

pull1D
Entries 84
Mean −0.009918
Std Dev 0.8278

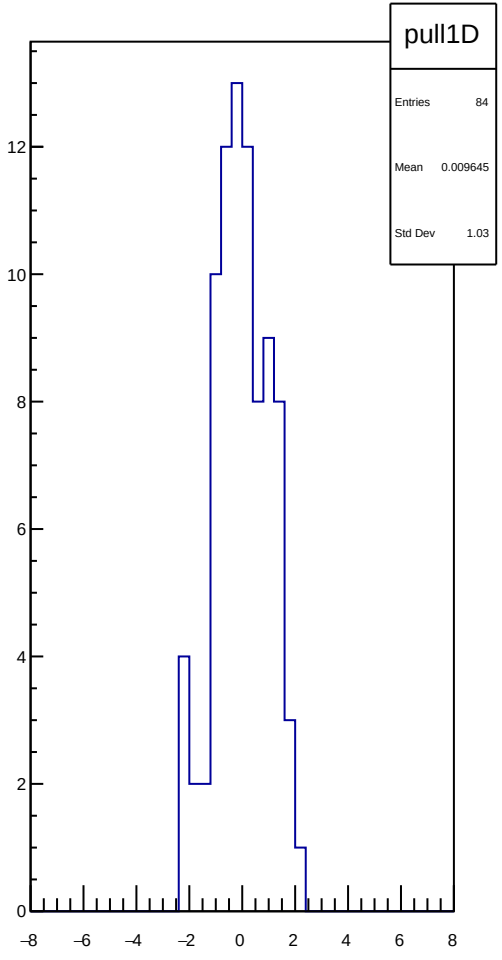

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.37 / 83
p0 −20.97 ± 2.173
pull
Entries 84
Mean −409.2
Std Dev 0

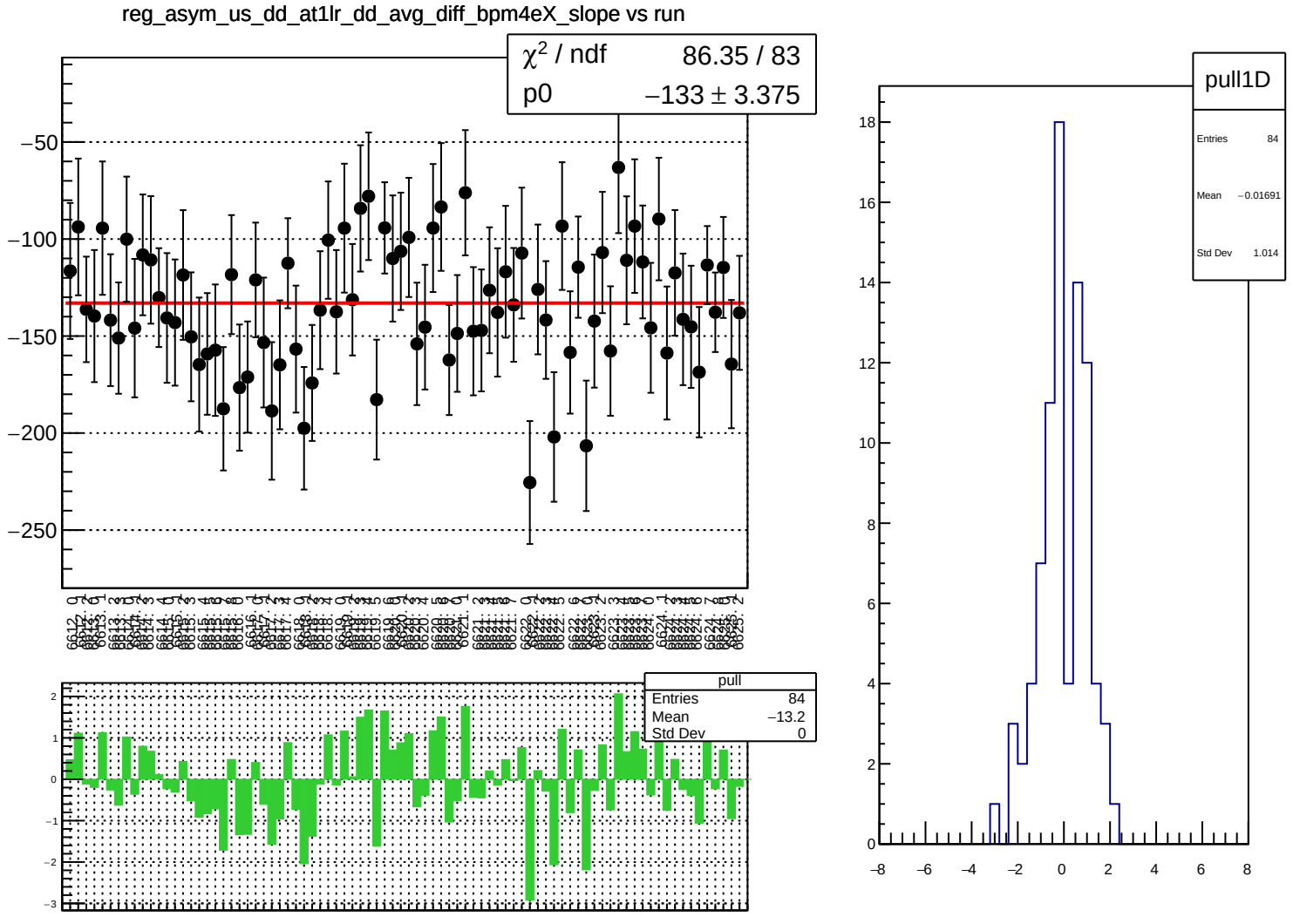

pull1D
Entries 84
Mean 0.001976
Std Dev 0.8192

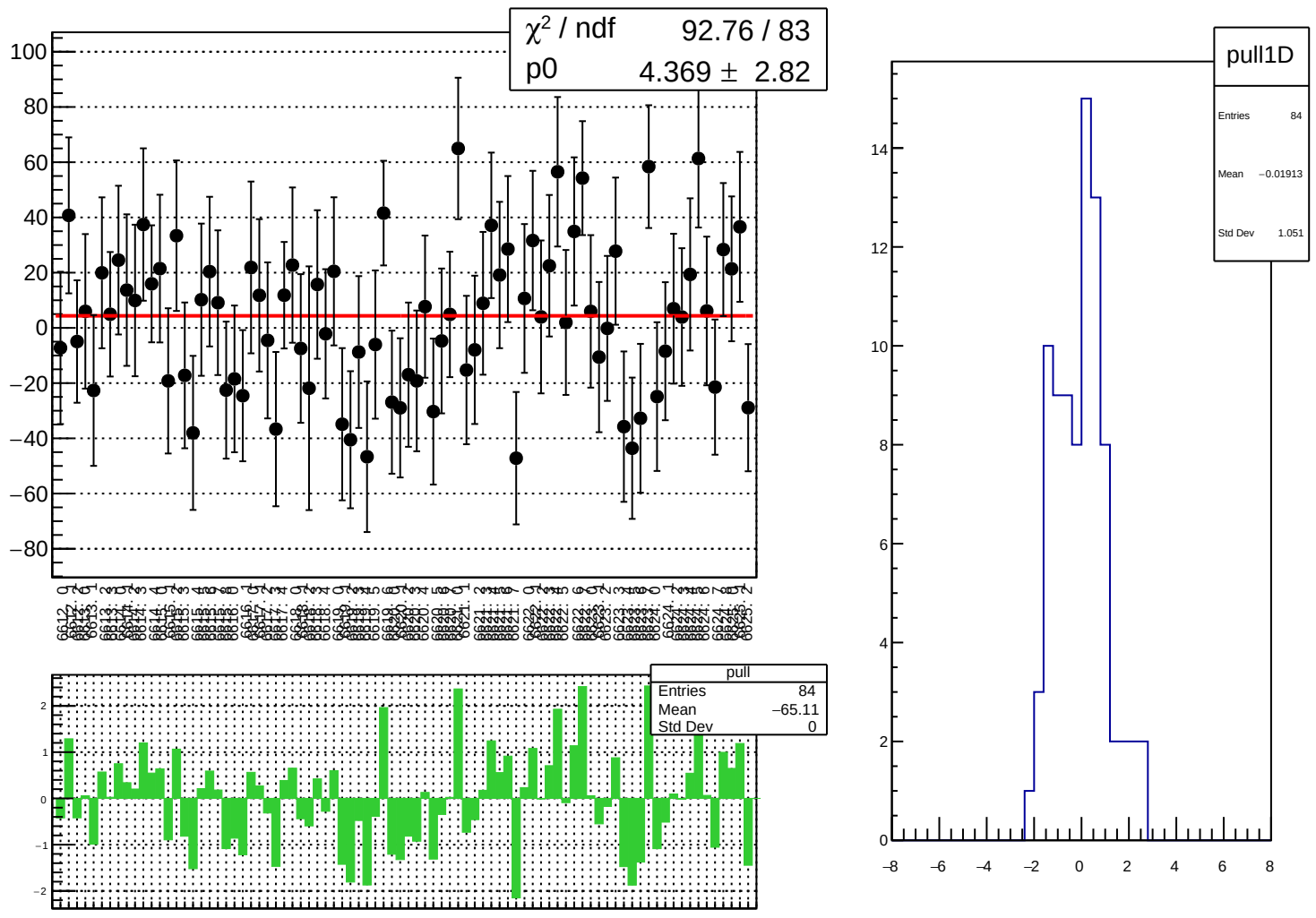

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 85.38 / 83
p0 36.62 ± 0.108
pull
Entries 84
Mean −996.7
Std Dev 0
pull1D
Entries 84
Mean 0.008109
Std Dev 1.008

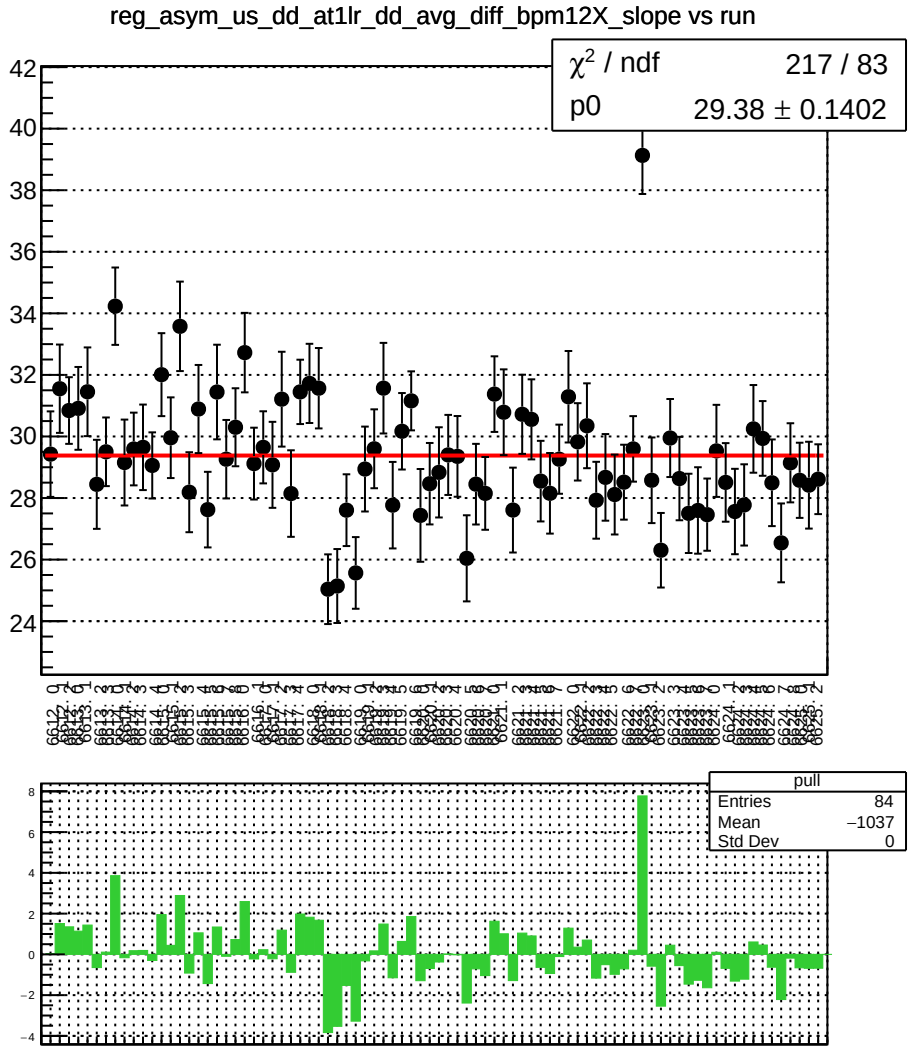

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 84.93 / 83
p0 55.31 ± 3.281
200
150
100
50
0
−50
pull
Entries 84
Mean −27.79
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.01686
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

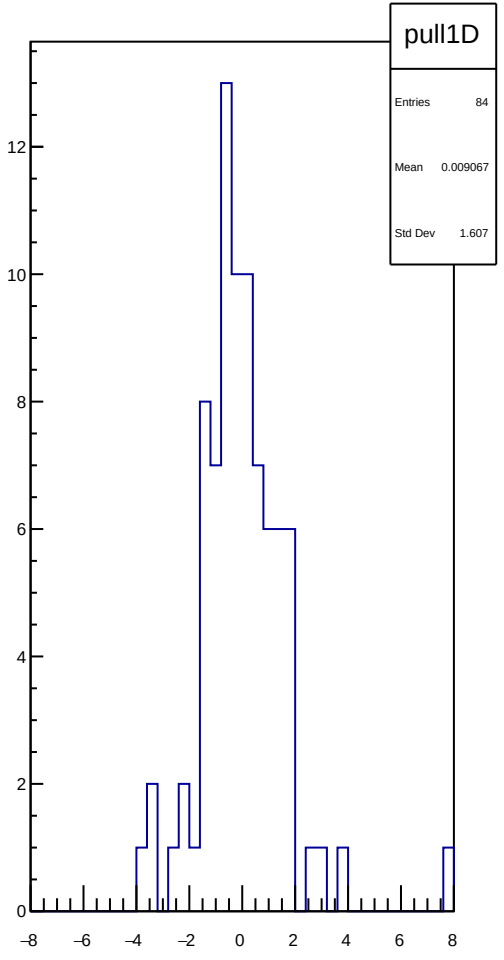

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 89.09 / 83
p0 −11.21 ± 2.391
pull
Entries 84
Mean −172.3
Std Dev 0

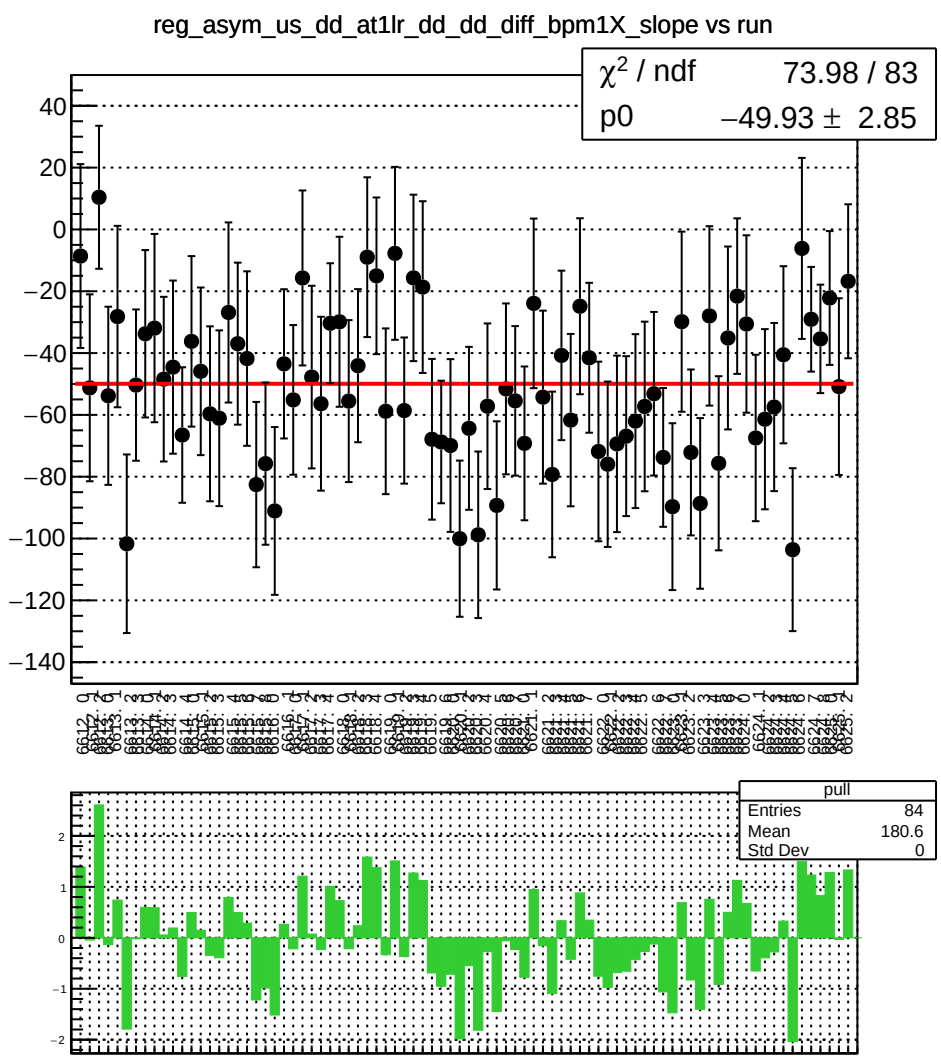

pull1D
Entries 84
Mean 0.009645
Std Dev 1.03

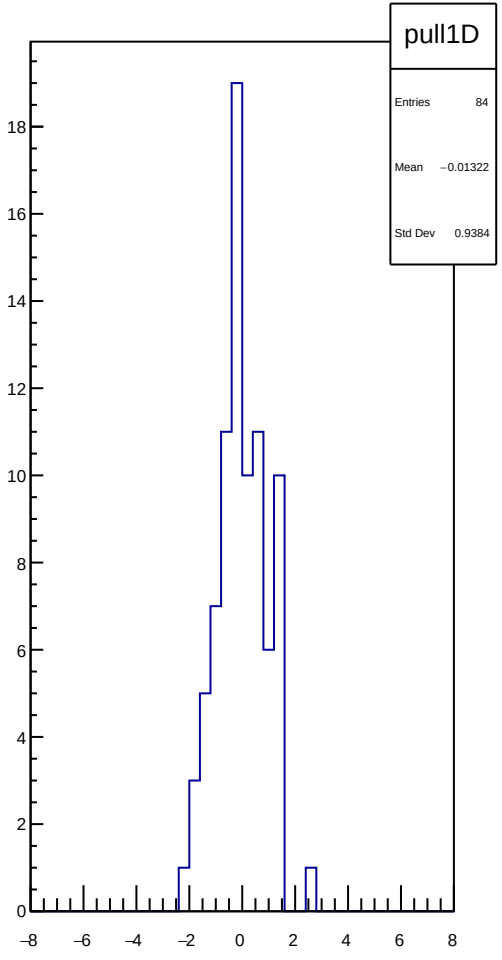

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 86.35 / 83
p0 −133 ± 3.375
−50
−100
−150
−200
−250
pull
Entries 84
Mean −13.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.01691
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

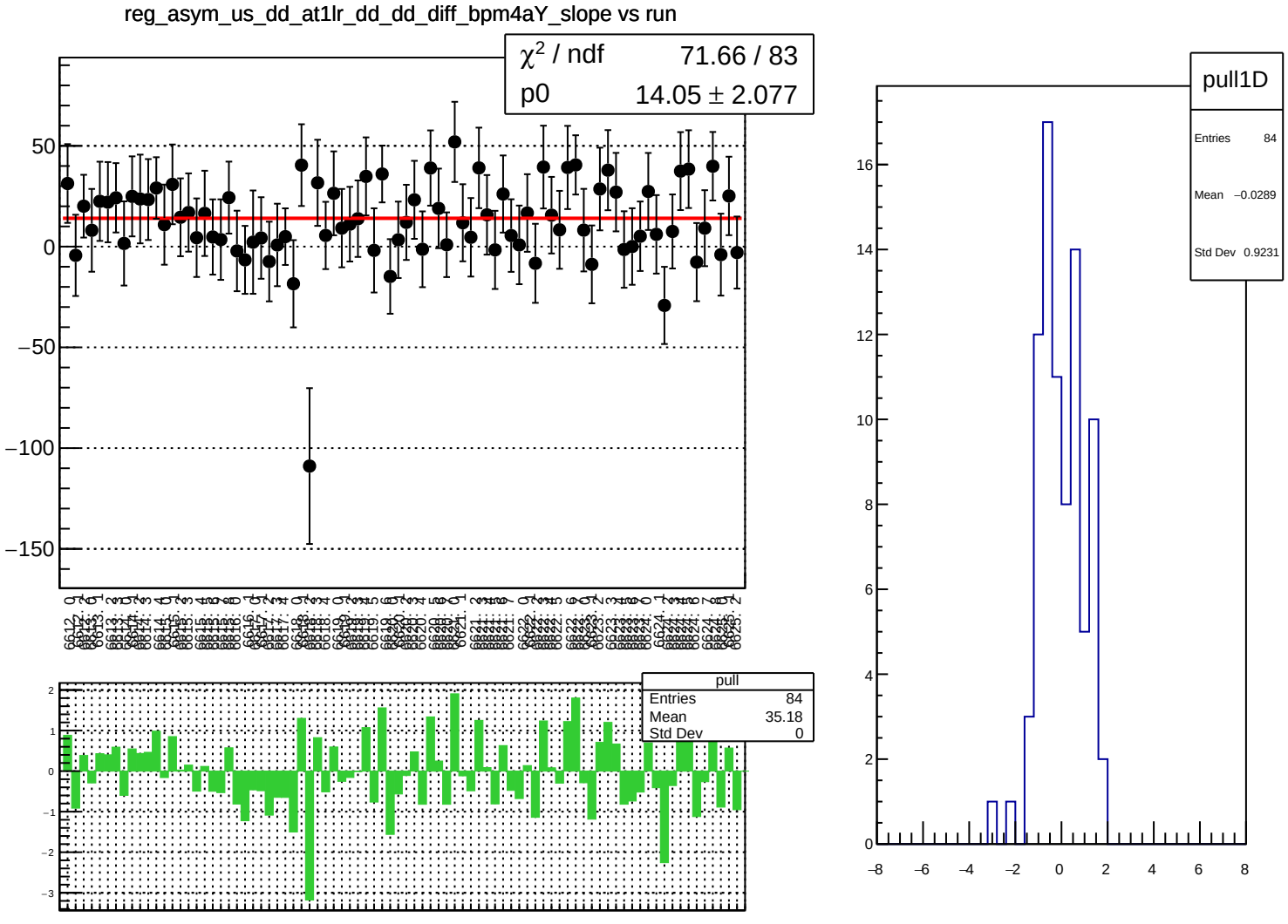

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 92.76 / 83
p0 4.369 ± 2.82
pull
Entries 84
Mean −65.11
Std Dev 0
pull1D
Entries 84
Mean −0.01913
Std Dev 1.051

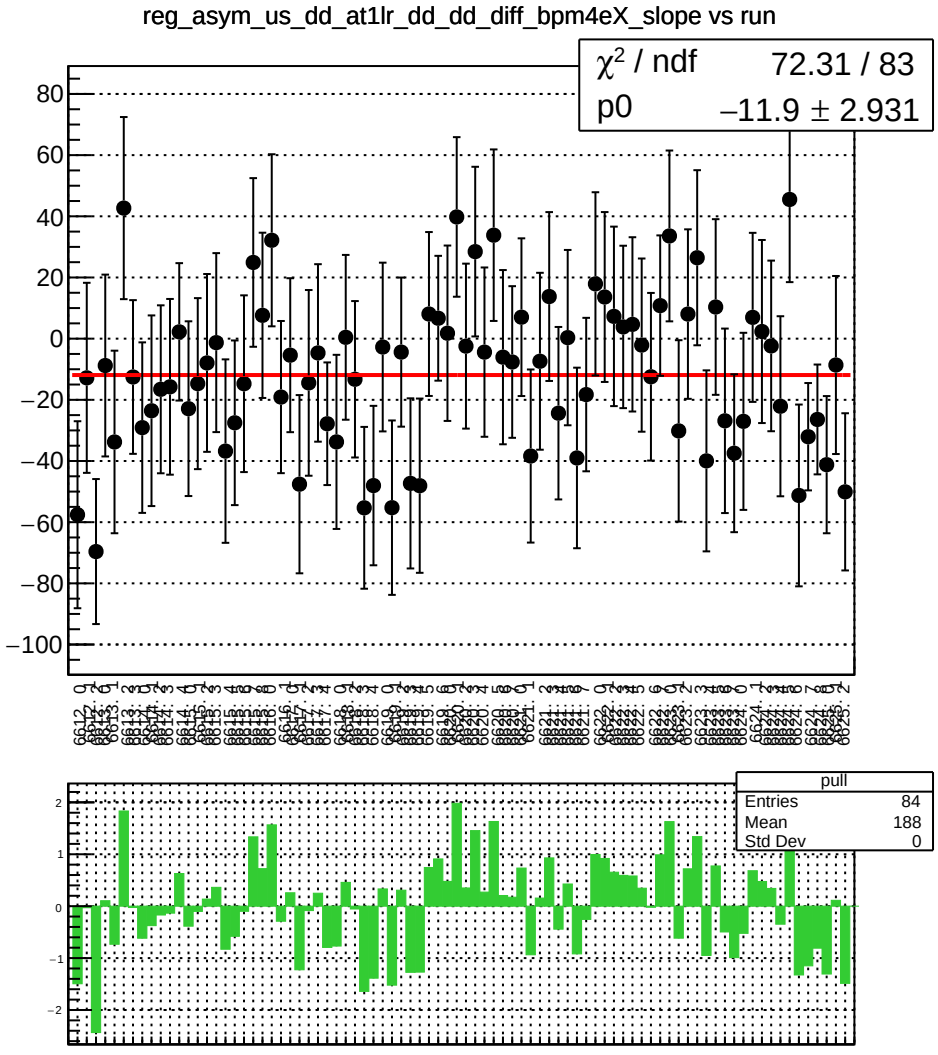

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 217 / 83
p0 29.38 ± 0.1402
pull
Entries 84
Mean −1037
Std Dev 0

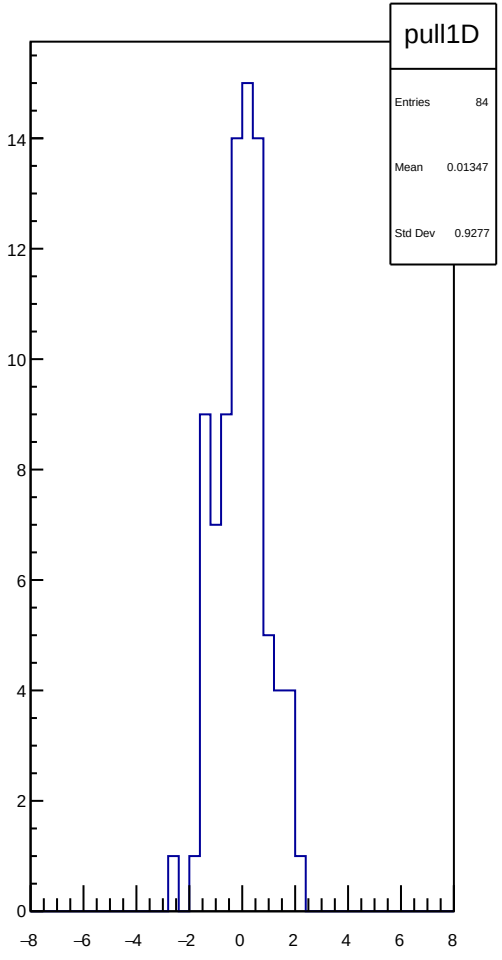

pull1D
Entries 84
Mean 0.009067
Std Dev 1.607

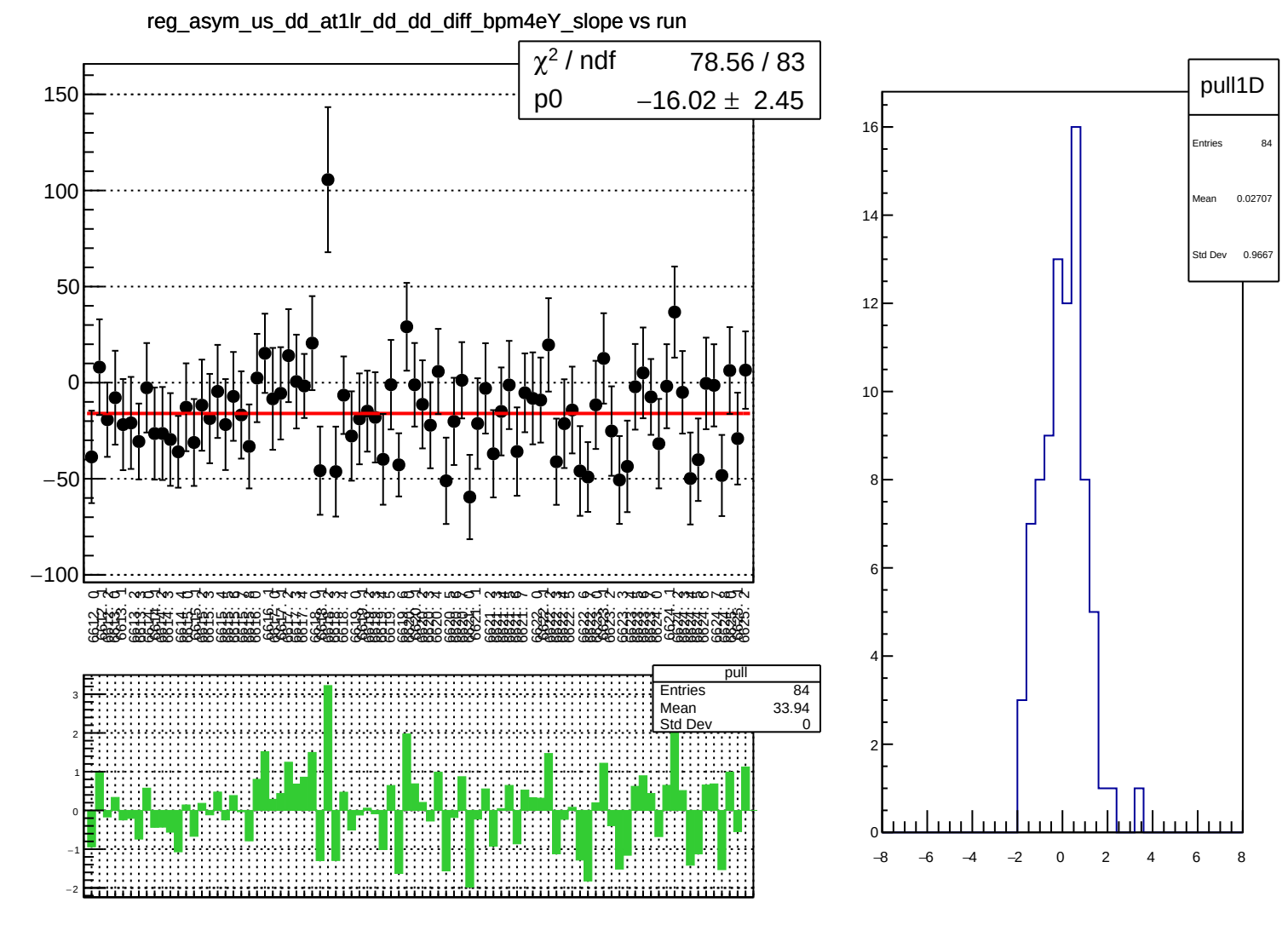

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 73.98 / 83
p0 −49.93 ± 2.85
pull
Entries 84
Mean 180.6
Std Dev 0

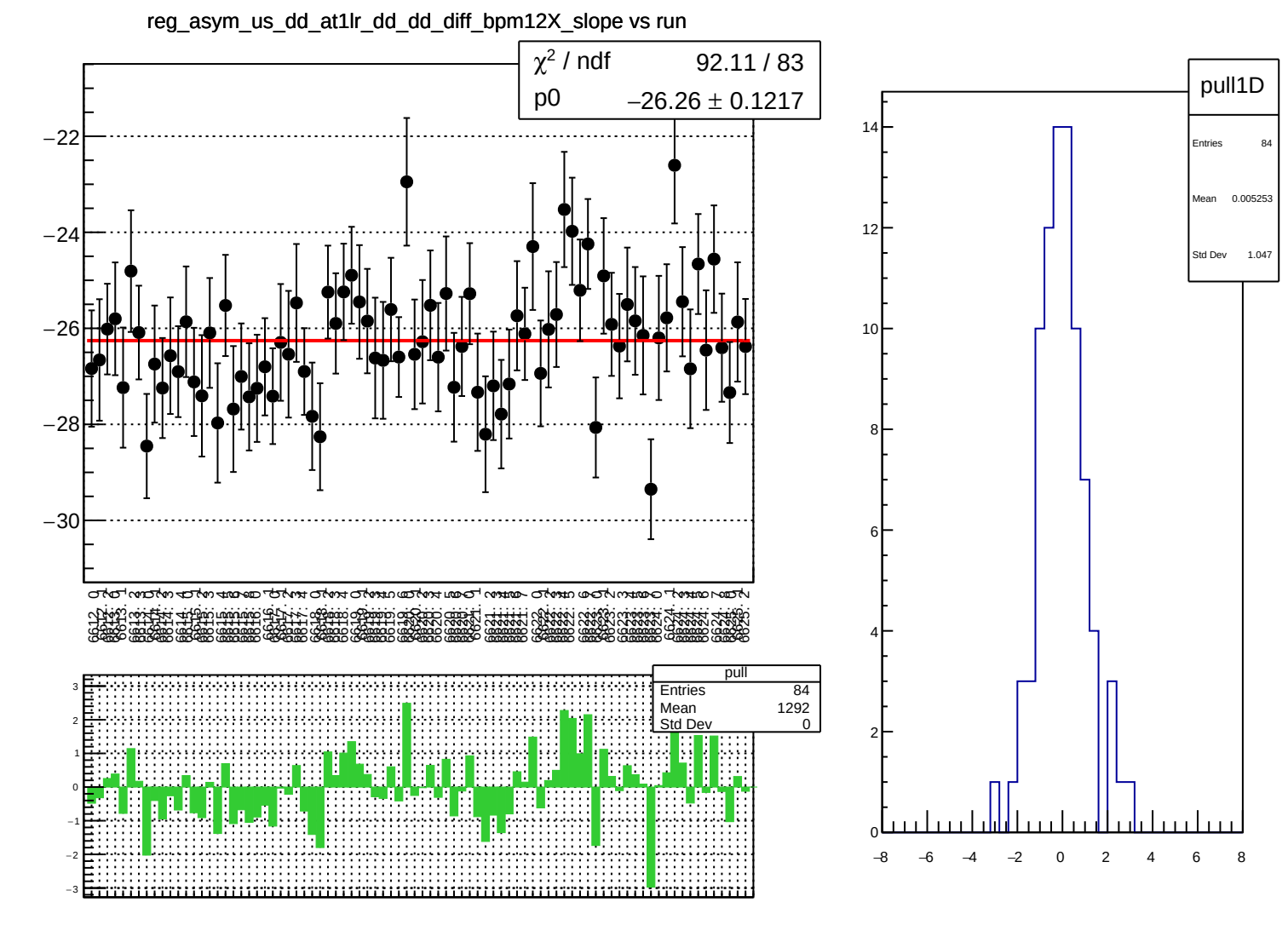

pull1D
Entries 84
Mean −0.01322
Std Dev 0.9384

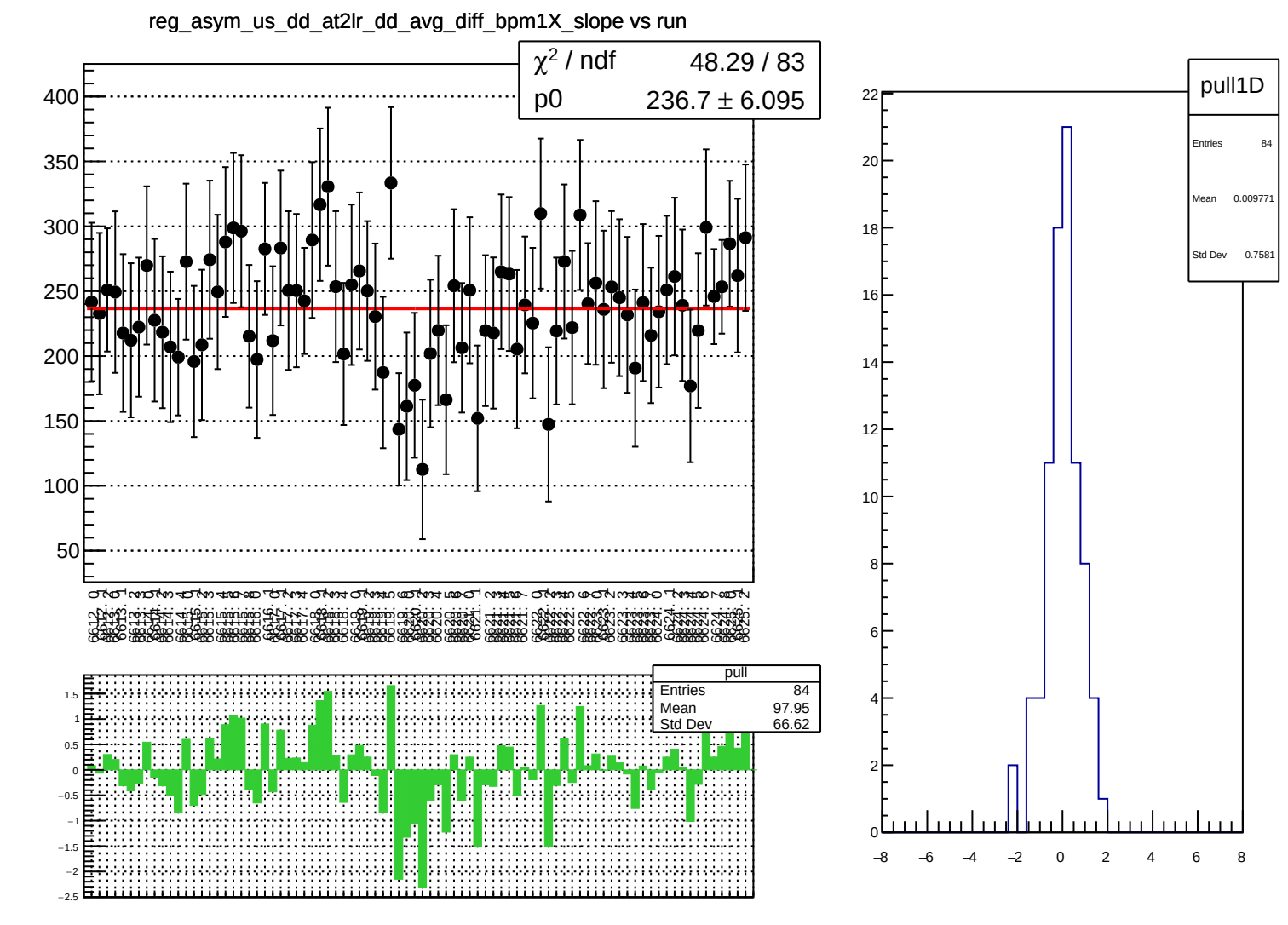

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.66 / 83
p0 14.05 ± 2.077
50
0
−50
−100
−150
pull
Entries 84
Mean 35.18
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.0289
Std Dev 0.9231
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

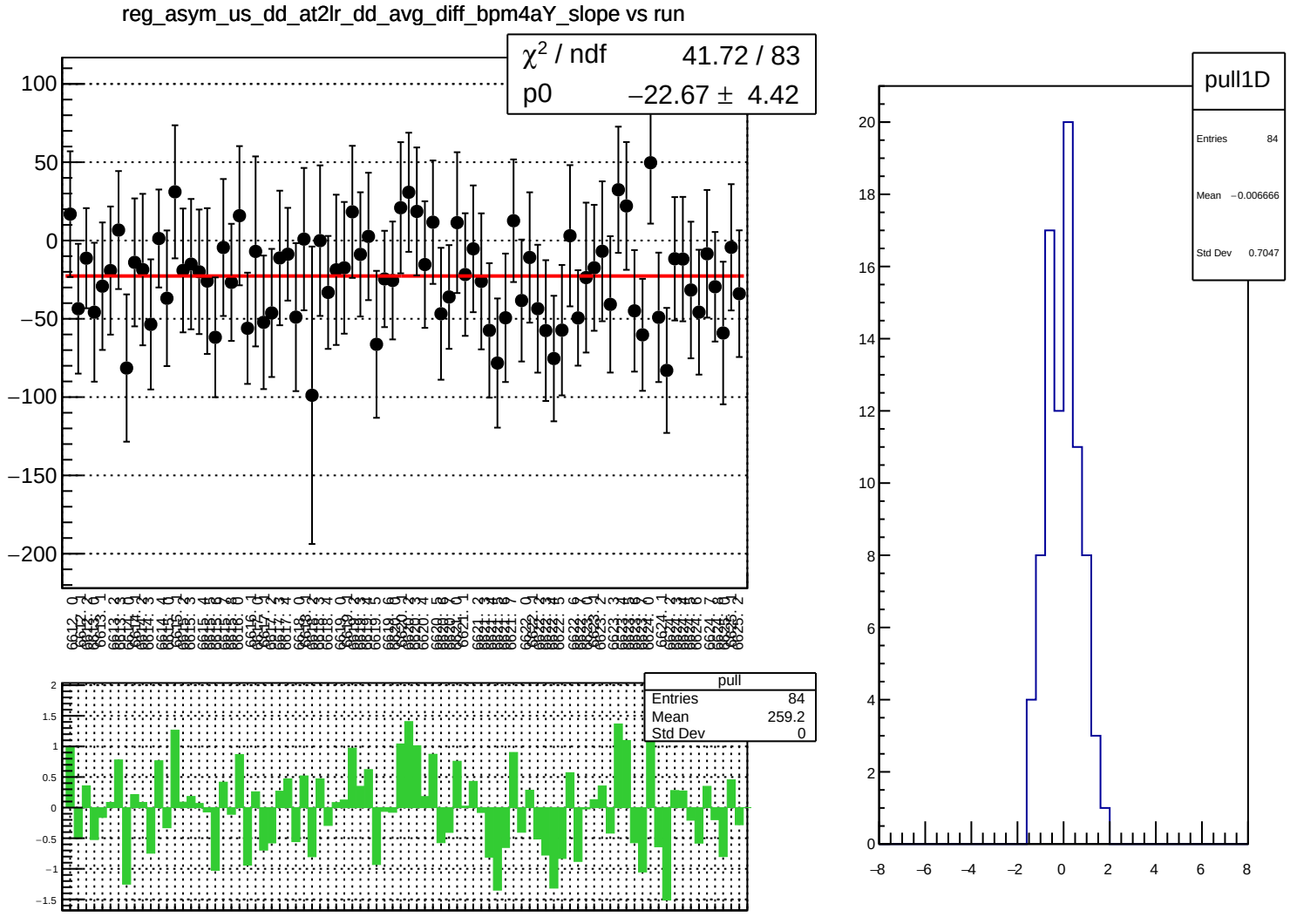

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.31 / 83
p0 −11.9 ± 2.931
pull
Entries 84
Mean 188
Std Dev 0

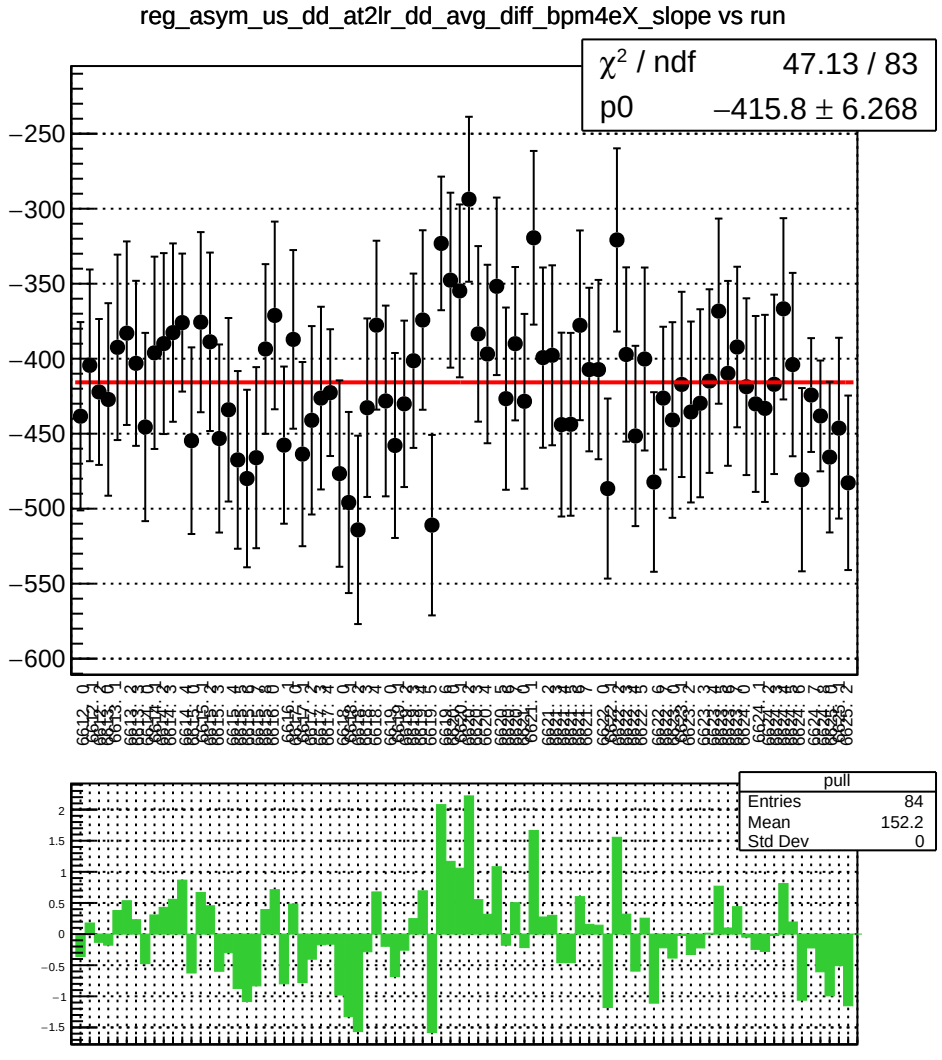

pull1D
Entries 84
Mean 0.01347
Std Dev 0.9277

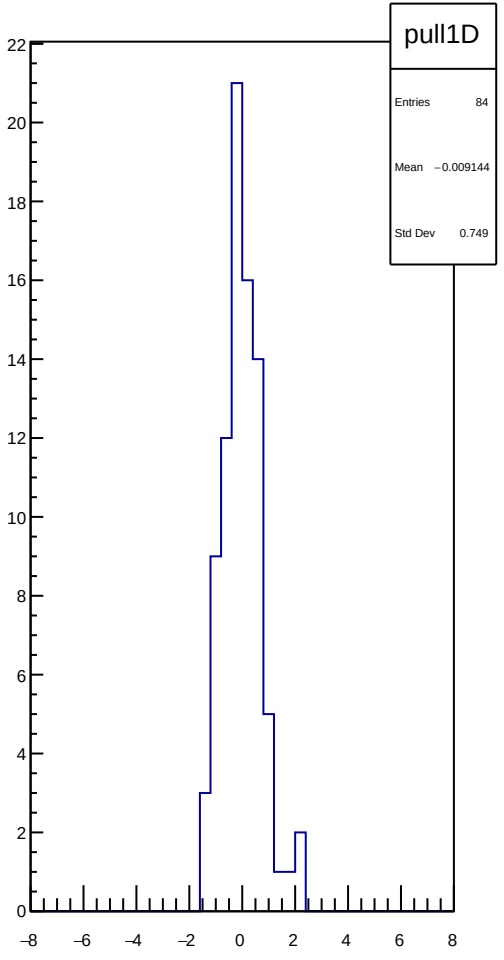

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.56 / 83
p0 −16.02 ± 2.45
pull
Entries 84
Mean 33.94
Std Dev 0
pull1D
Entries 84
Mean 0.02707
Std Dev 0.9667

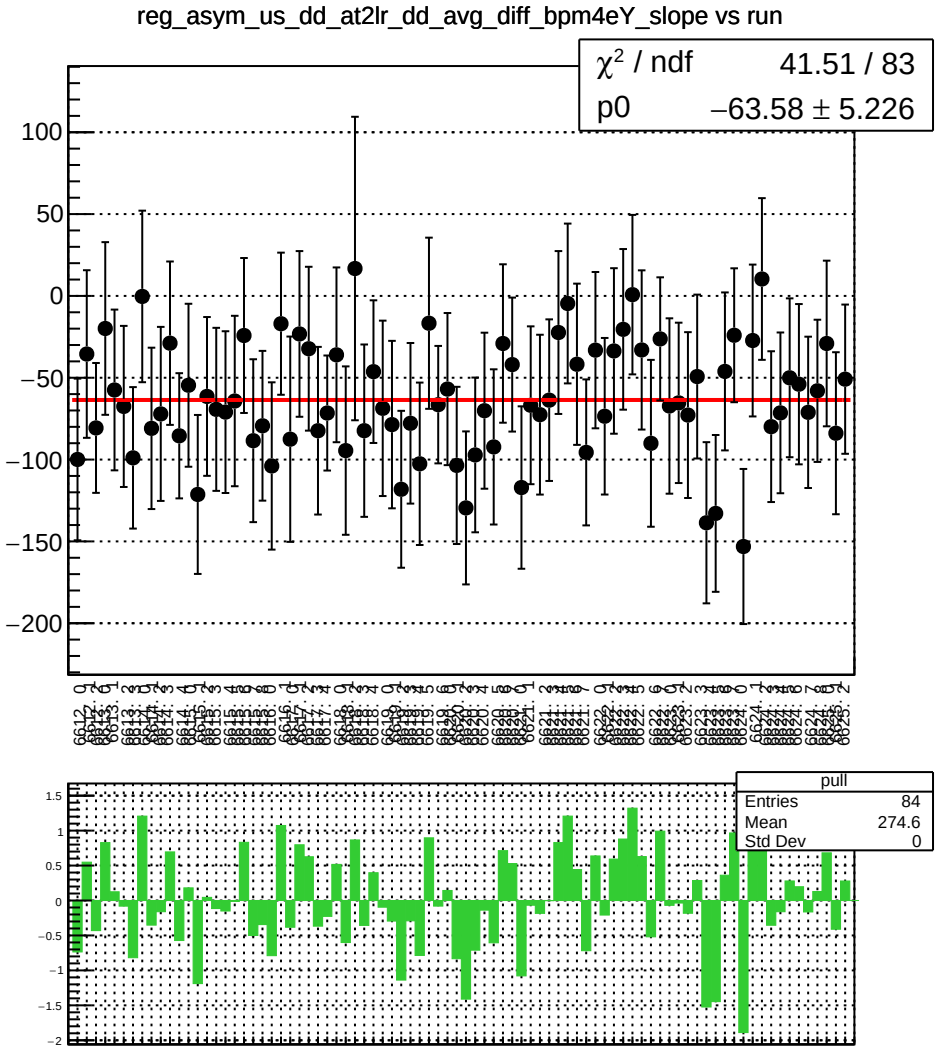

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 92.11 / 83
p0 −26.26 ± 0.1217
pull
Entries 84
Mean 1292
Std Dev 0
pull1D
Entries 84
Mean 0.005253
Std Dev 1.047

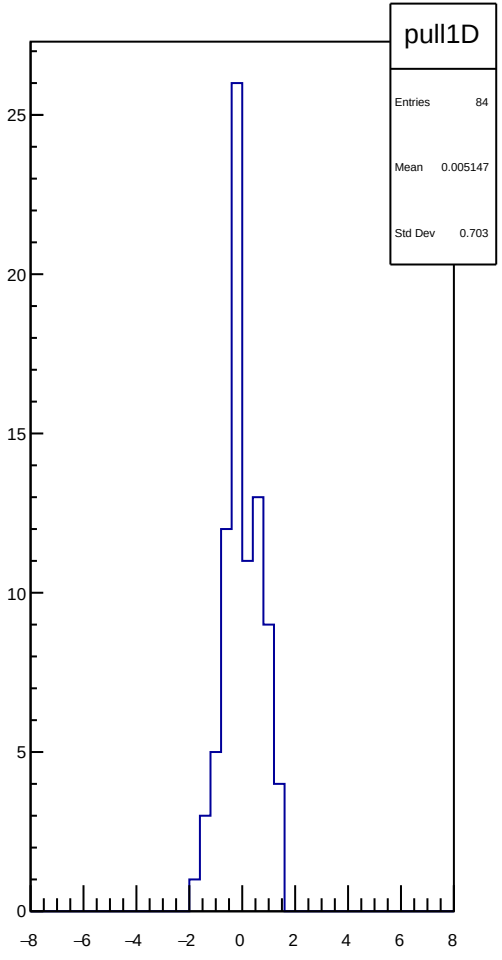

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 48.29 / 83
p0 236.7 ± 6.095
pull
Entries 84
Mean 97.95
Std Dev 66.62
pull1D
Entries 84
Mean 0.009771
Std Dev 0.7581

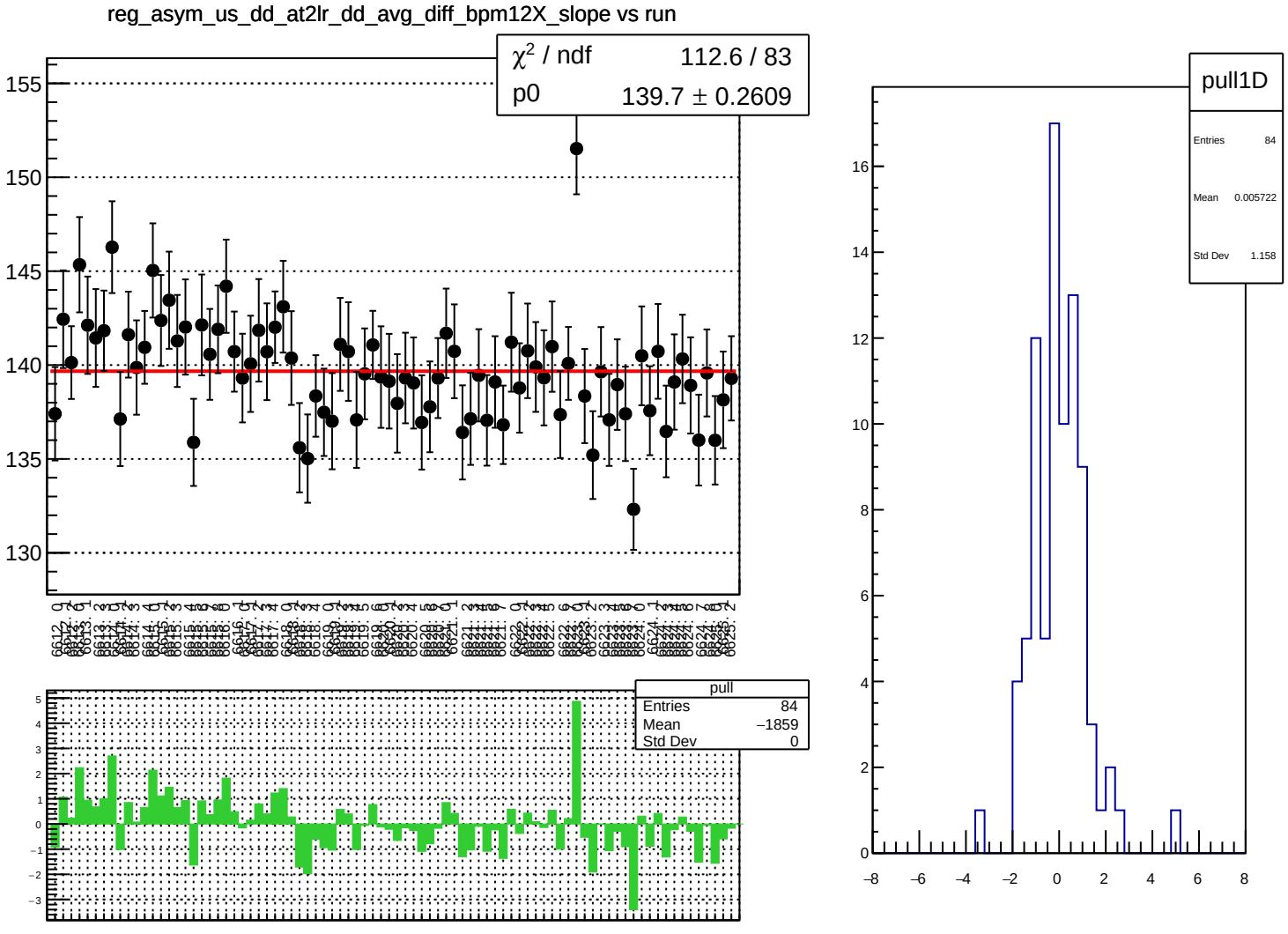

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.72 / 83
p0 −22.67 ± 4.42
pull
Entries 84
Mean 259.2
Std Dev 0
pull1D
Entries 84
Mean −0.006666
Std Dev 0.7047

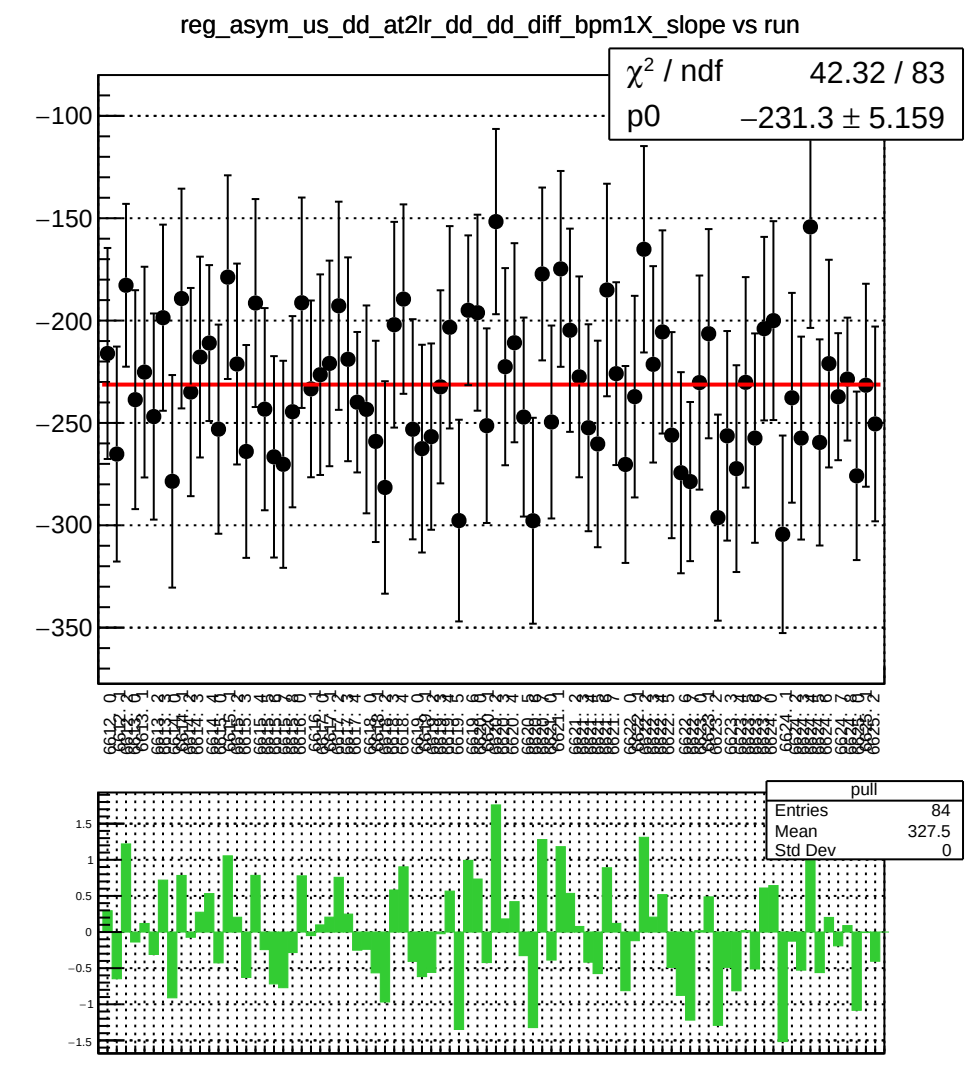

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.13 / 83
p0 −415.8 ± 6.268
pull
Entries 84
Mean 152.2
Std Dev 0

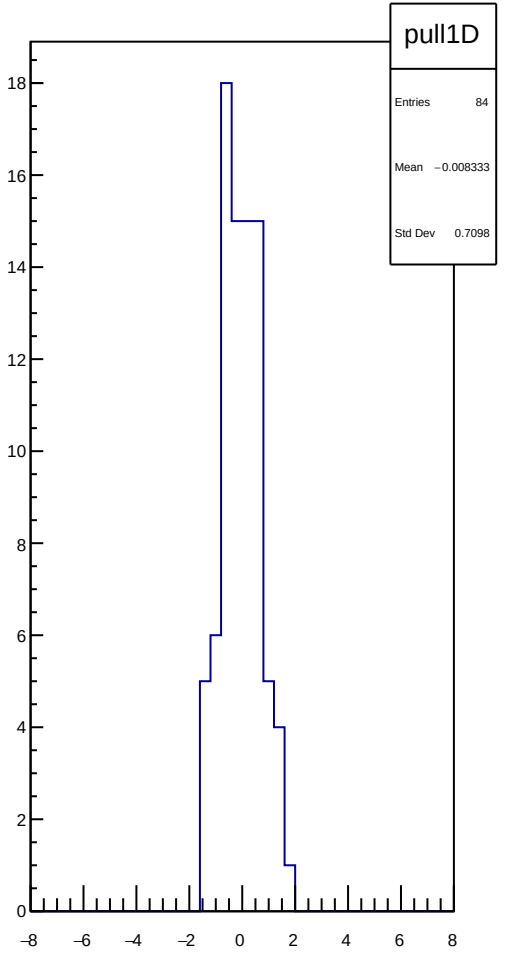

pull1D
Entries 84
Mean −0.009144
Std Dev 0.749

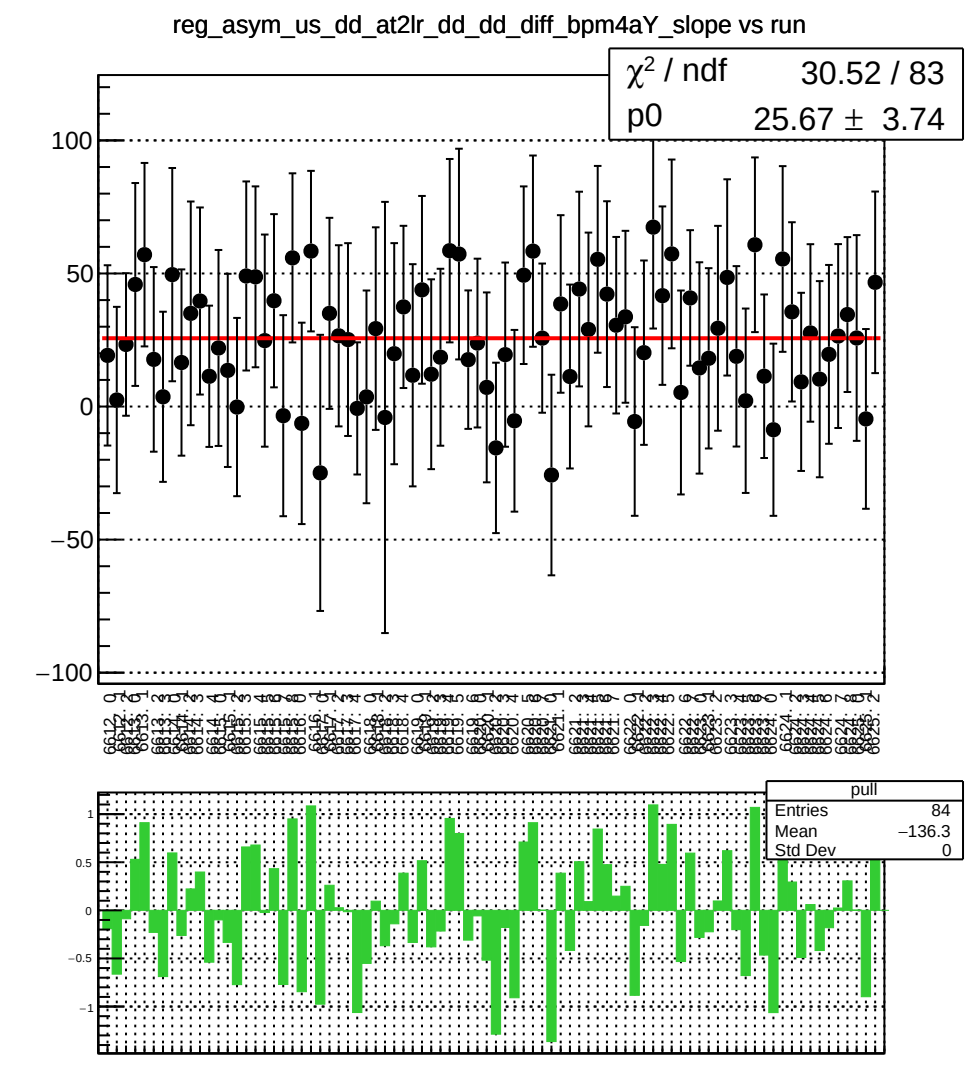

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.51 / 83
p0 −63.58 ± 5.226
pull
Entries 84
Mean 274.6
Std Dev 0

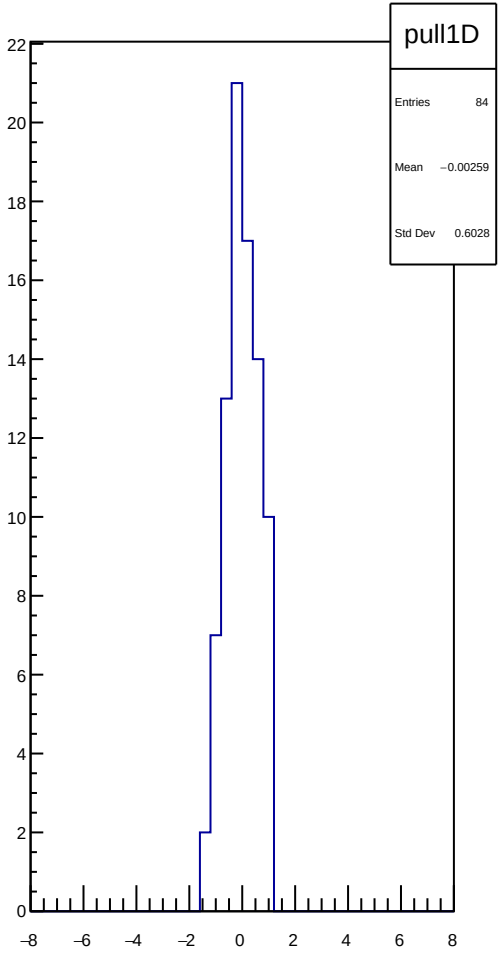

pull1D
Entries 84
Mean 0.005147
Std Dev 0.703

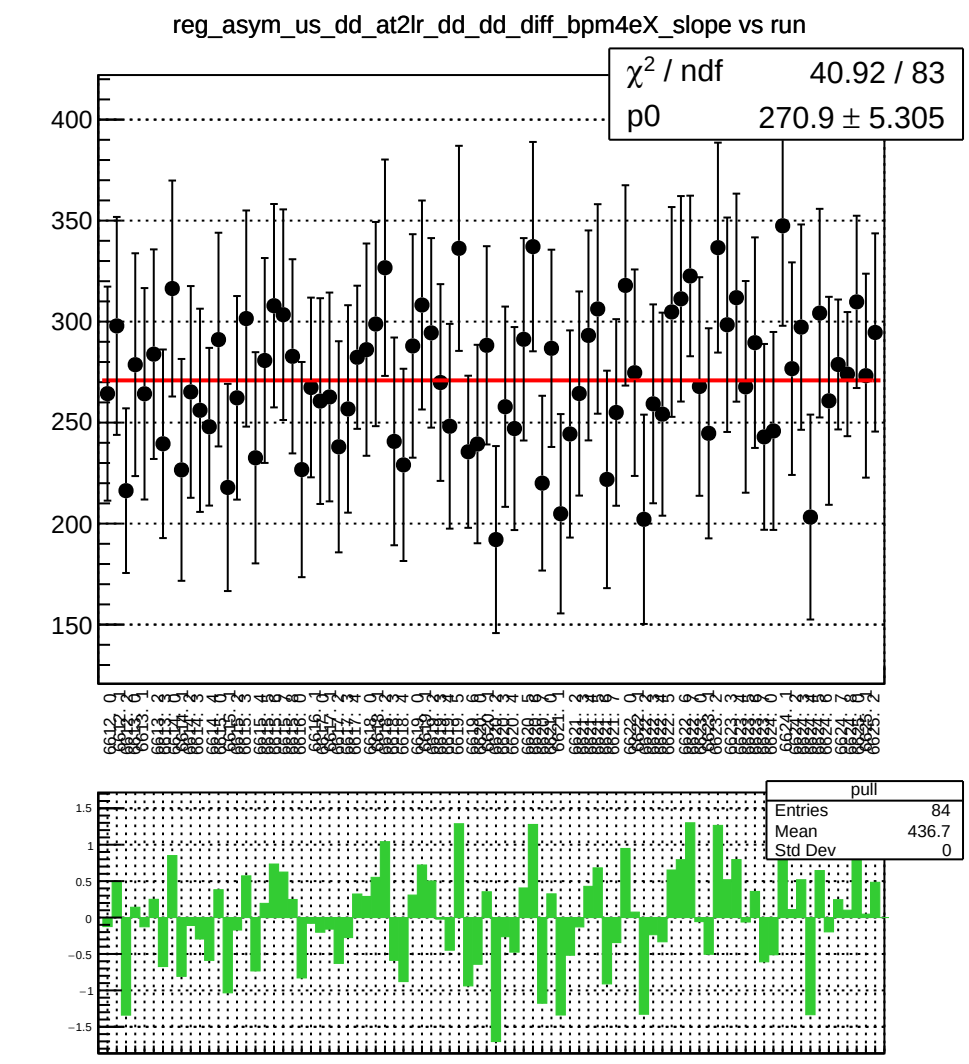

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 112.6 / 83
p0 139.7 ± 0.2609
155
150
145
140
135
130
pull
Entries 84
Mean −1859
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean 0.005722
Std Dev 1.158
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

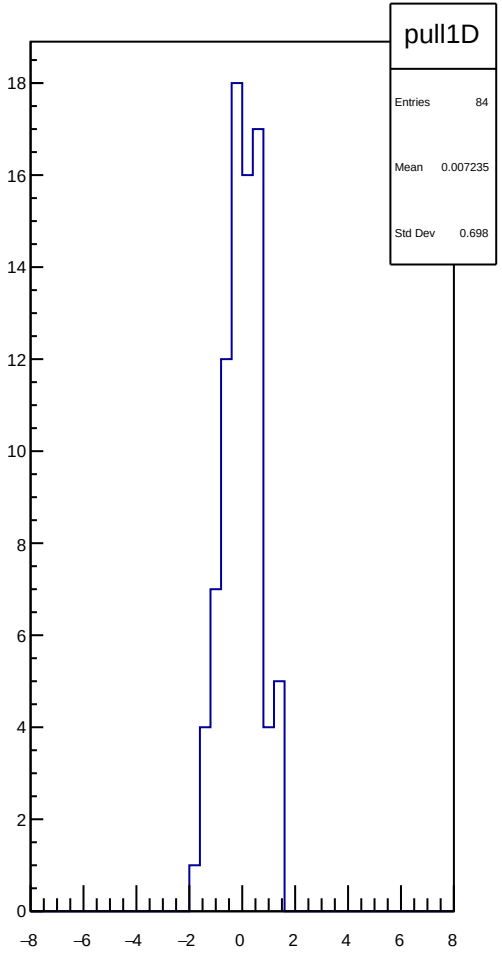

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 42.32 / 83
p0 −231.3 ± 5.159
−100
−150
−200
−250
−300
−350
pull
Entries 84
Mean 327.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

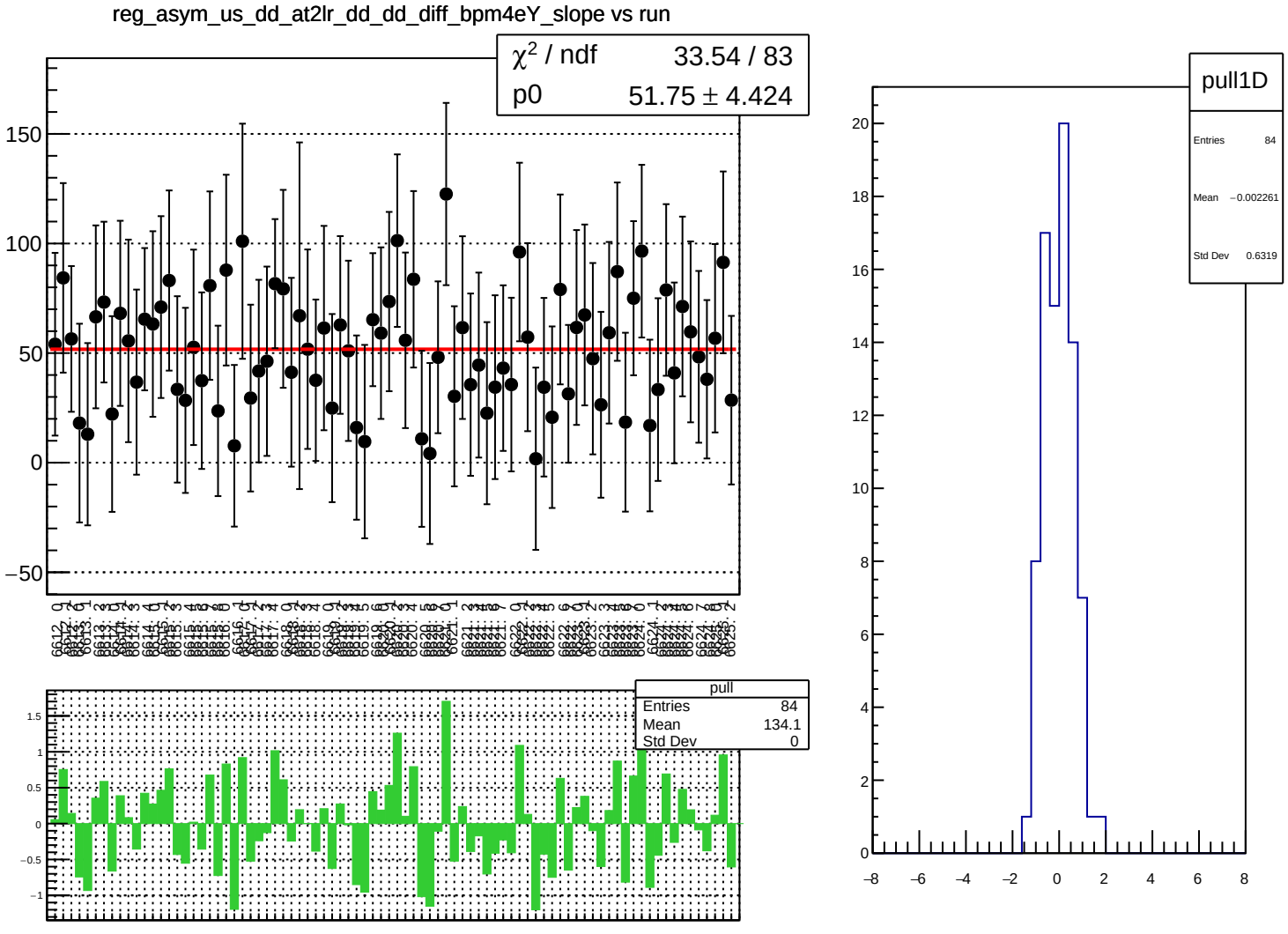

pull1D
Entries 84
Mean −0.008333
Std Dev 0.7098
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

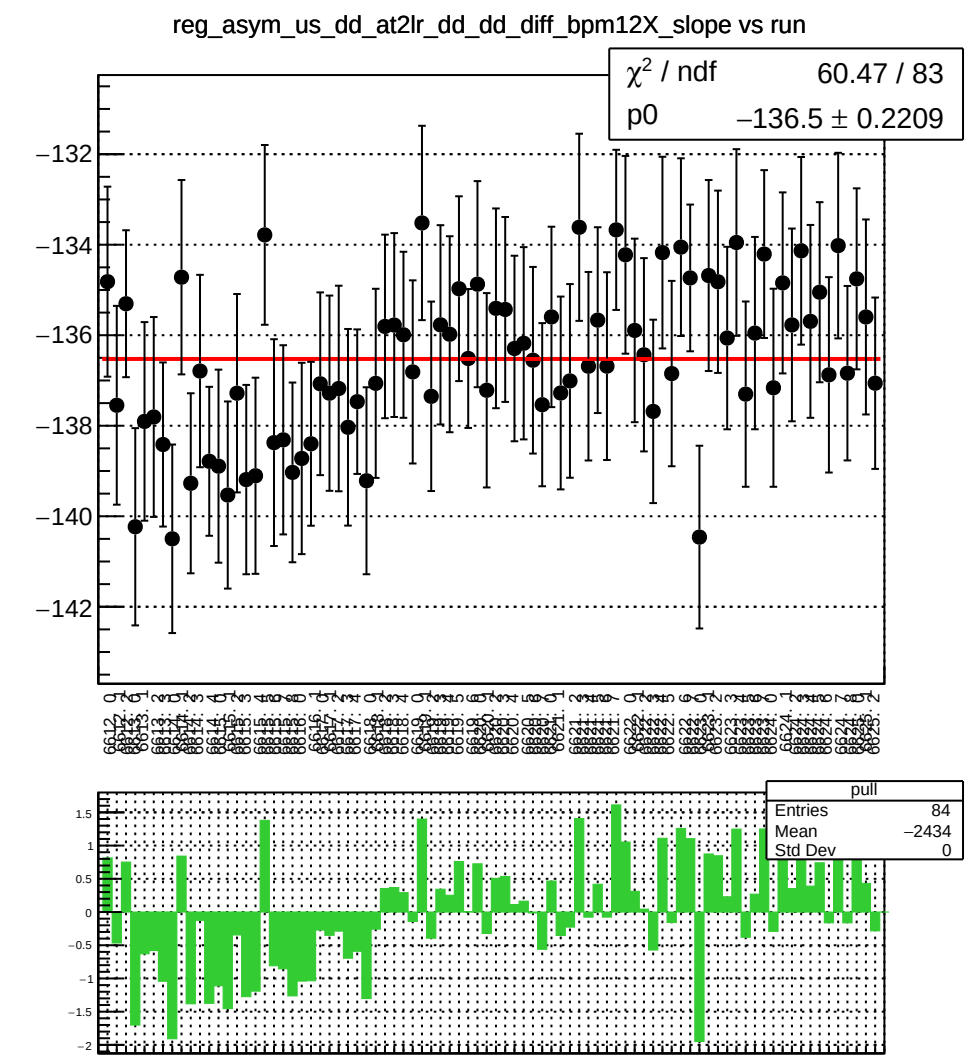

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.52 / 83
p0 25.67 ± 3.74
pull
Entries 84
Mean −136.3
Std Dev 0

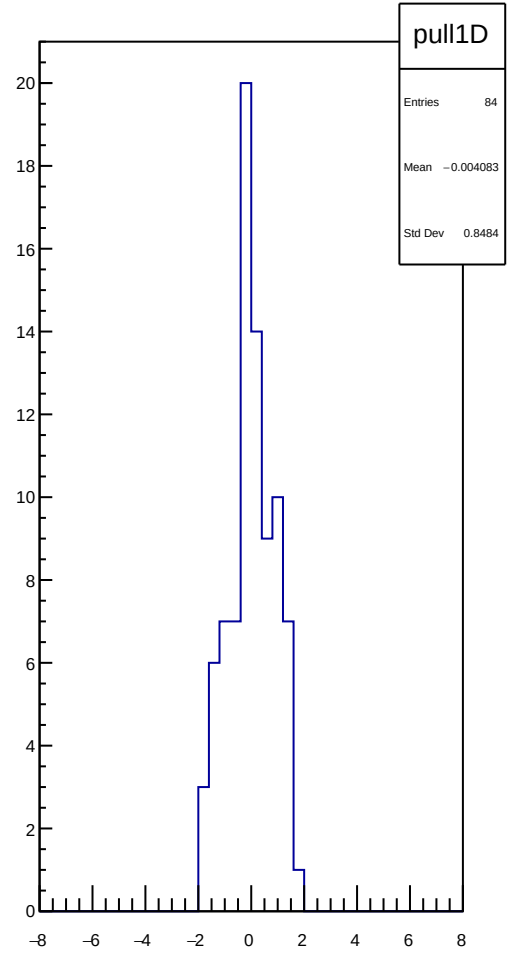

pull1D
Entries 84
Mean −0.00259
Std Dev 0.6028

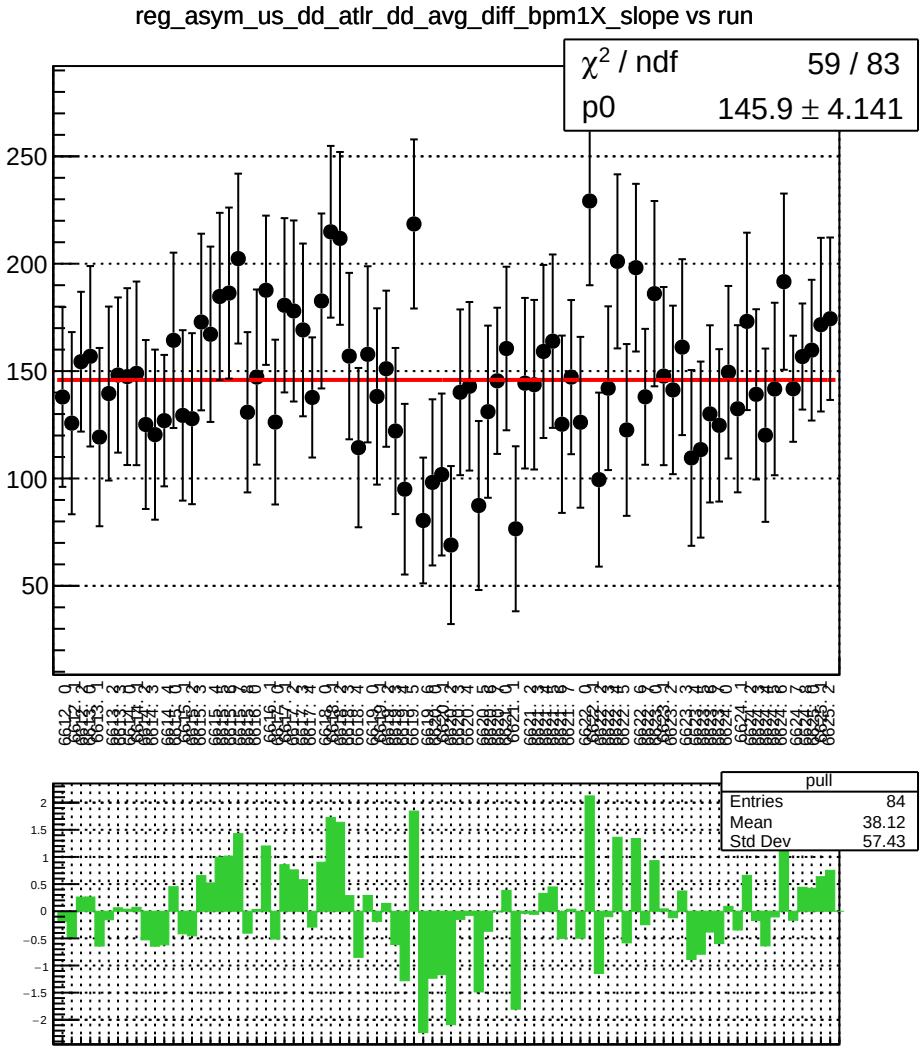

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.92 / 83
p0 270.9 ± 5.305
pull
Entries 84
Mean 436.7
Std Dev 0

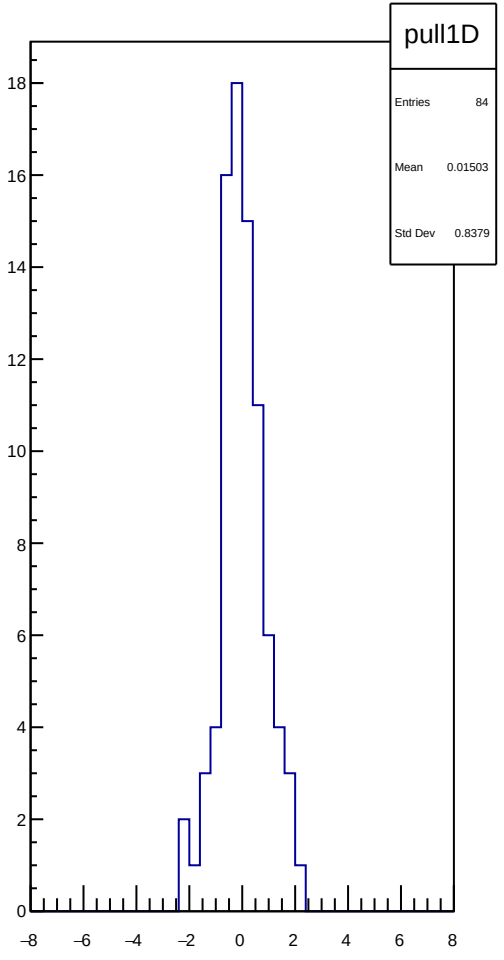

pull1D
Entries 84
Mean 0.007235
Std Dev 0.698

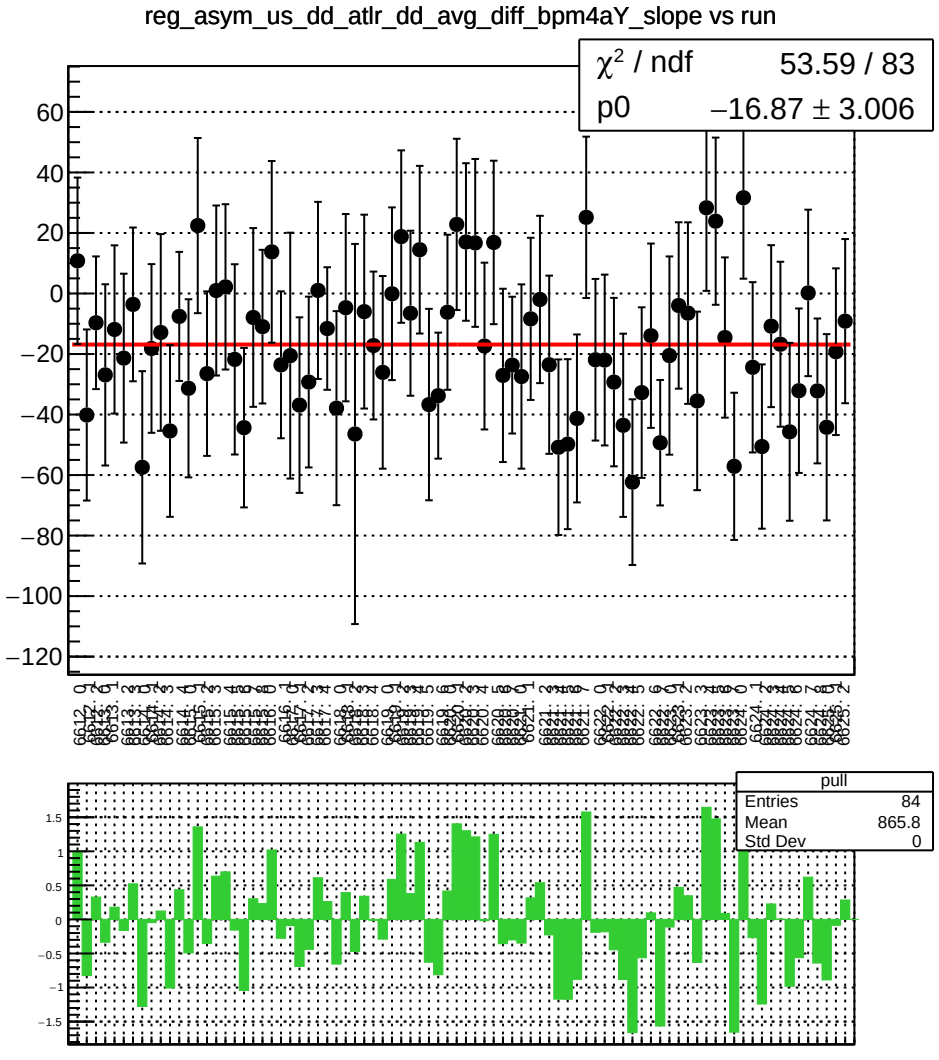

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.54 / 83
p0 51.75 ± 4.424
150
100
50
0
−50
pull
Entries 84
Mean 134.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean −0.002261
Std Dev 0.6319
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

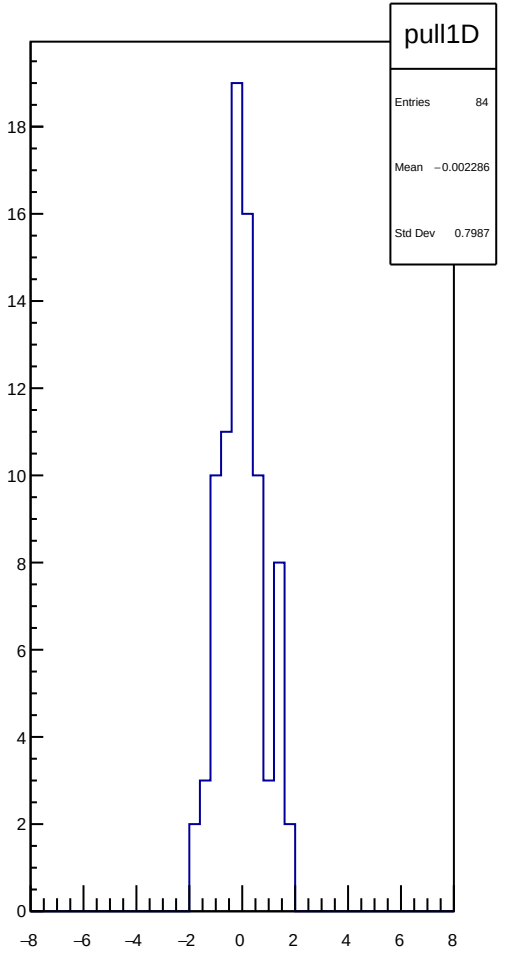

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 60.47 / 83
p0 −136.5 ± 0.2209
−132
−134
−136
−138
−140
−142
pull
Entries 84
Mean −2434
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

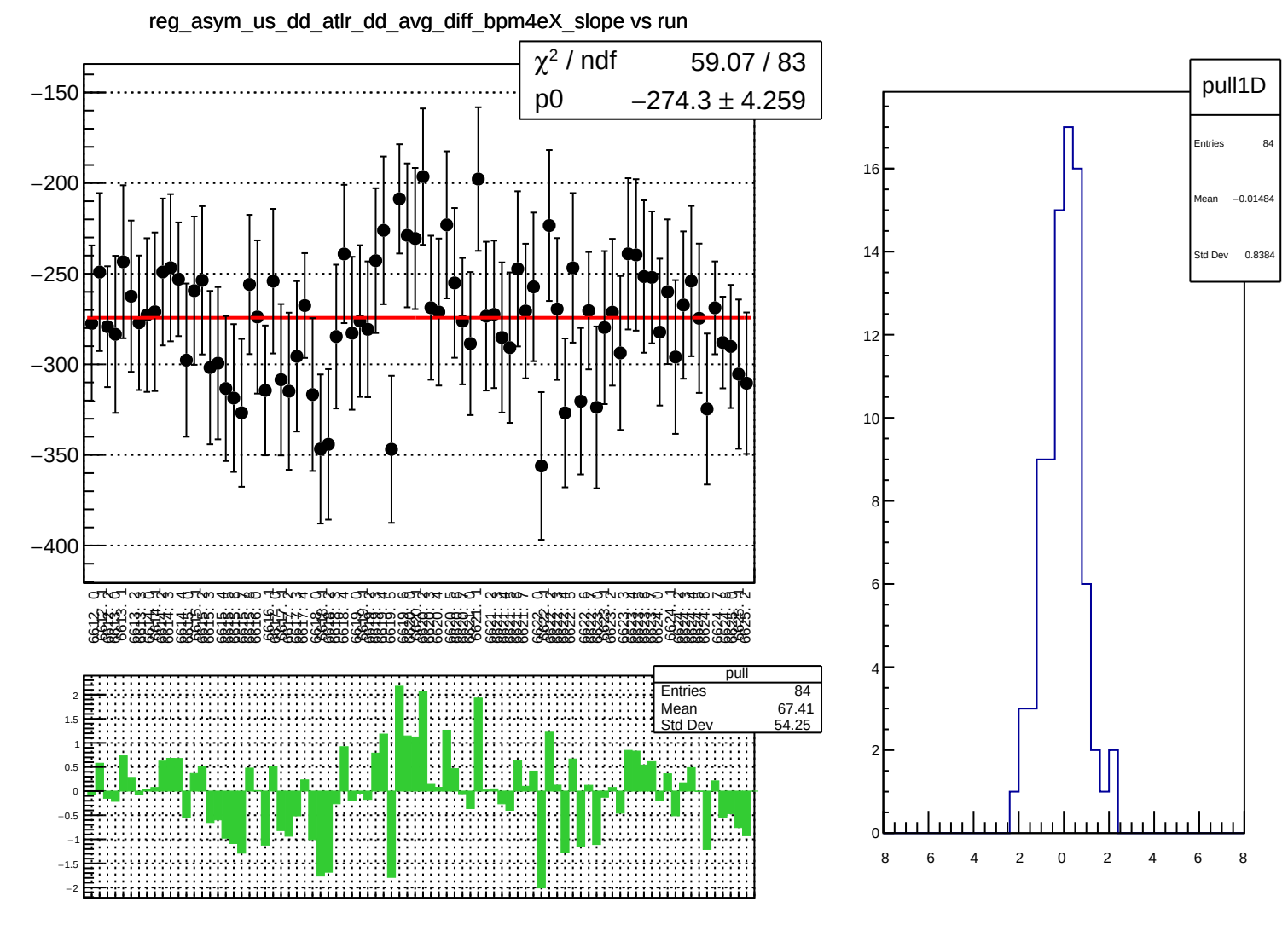

pull1D
Entries 84
Mean −0.004083
Std Dev 0.8484
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

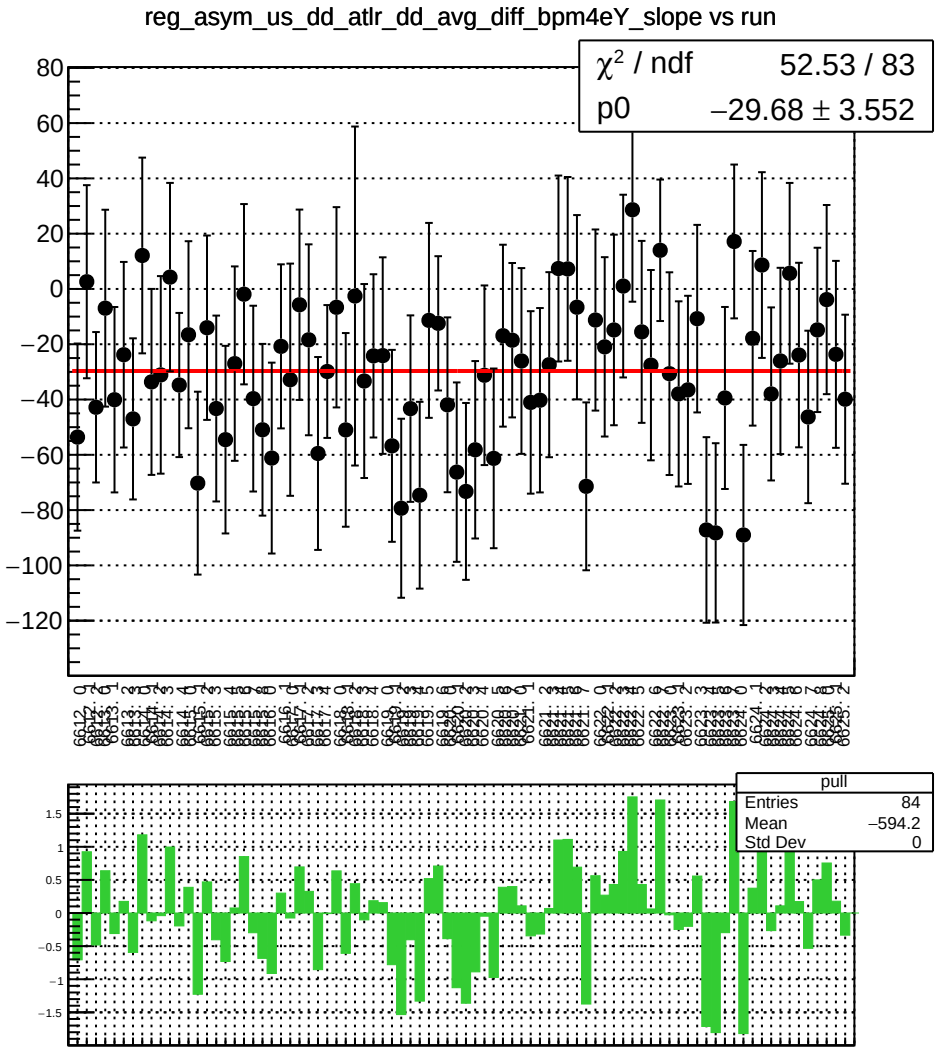

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 59 / 83
p0 145.9 ± 4.141
250
200
150
100
50
pull
Entries 84
Mean 38.12
Std Dev 57.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

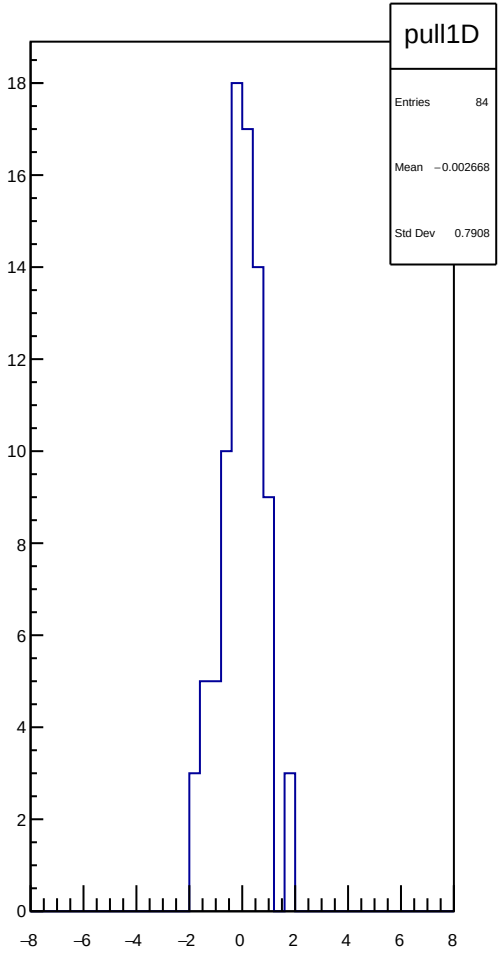

pull1D
Entries 84
Mean 0.01503
Std Dev 0.8379
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

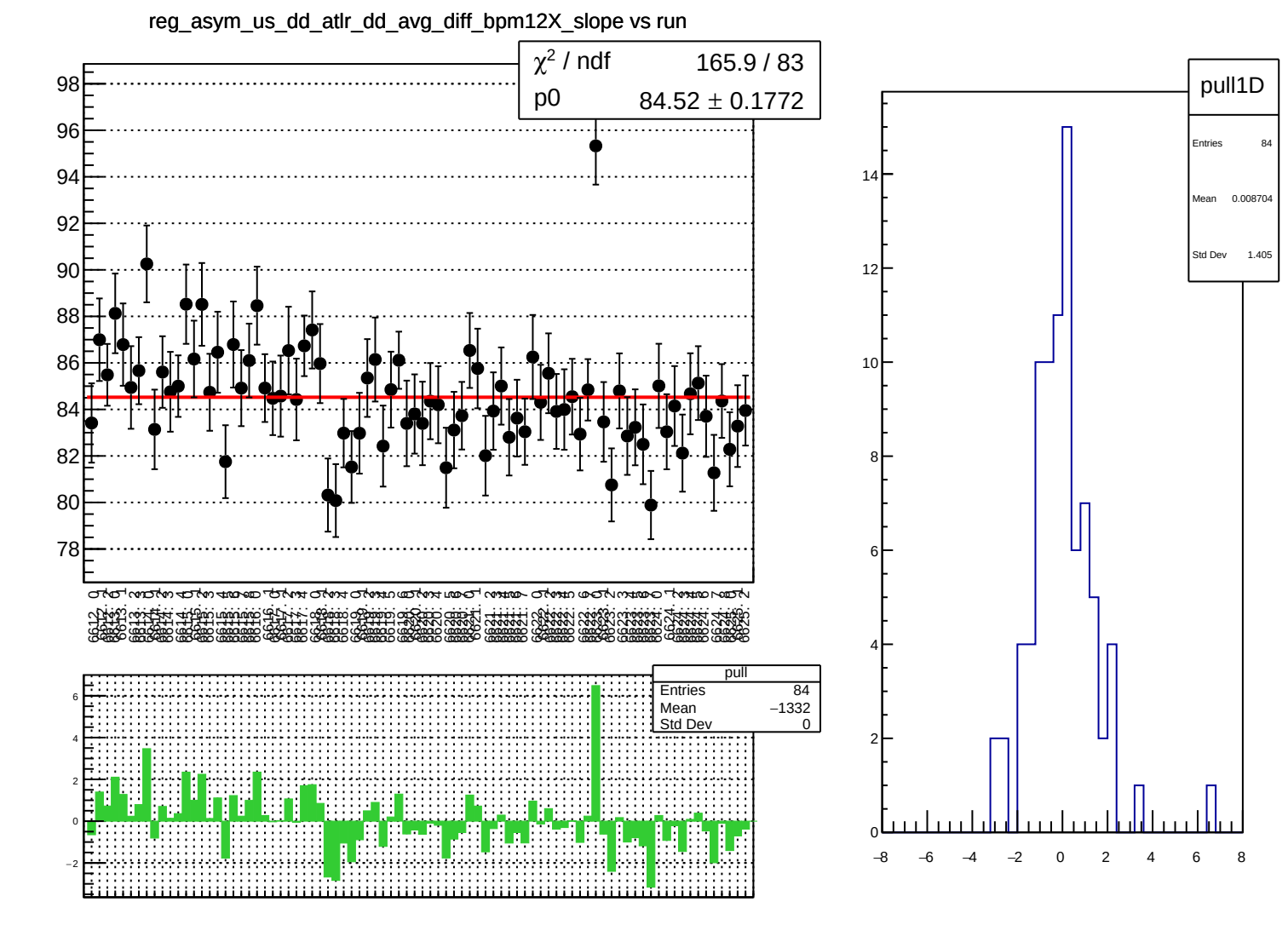

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 53.59 / 83
p0 −16.87 ± 3.006
pull
Entries 84
Mean 865.8
Std Dev 0

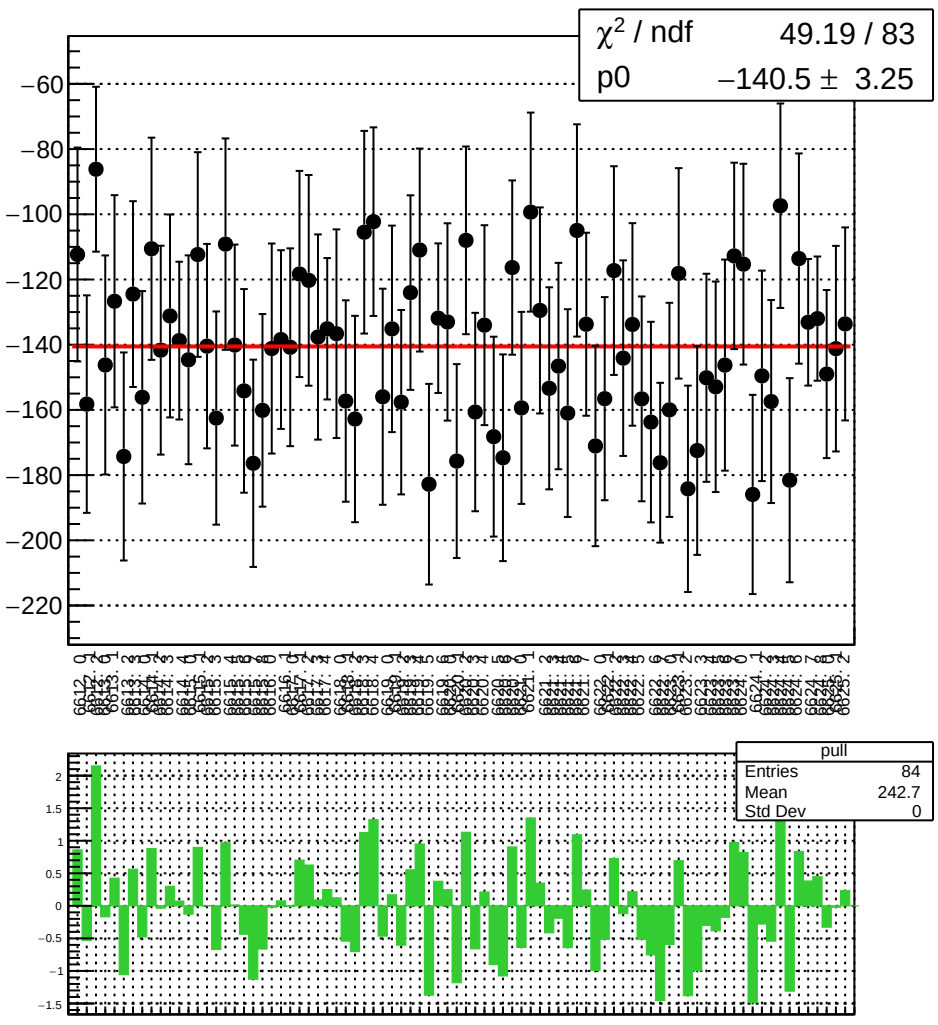

pull1D
Entries 84
Mean −0.002286
Std Dev 0.7987

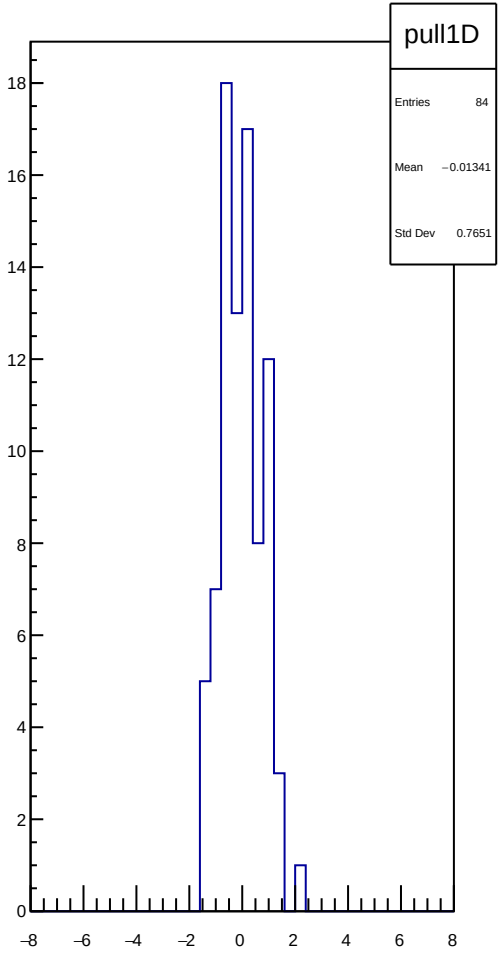

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 59.07 / 83
p0 −274.3 ± 4.259
−150
−200
−250
−300
−350
−400
pull
Entries 84
Mean 67.41
Std Dev 54.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean −0.01484
Std Dev 0.8384
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

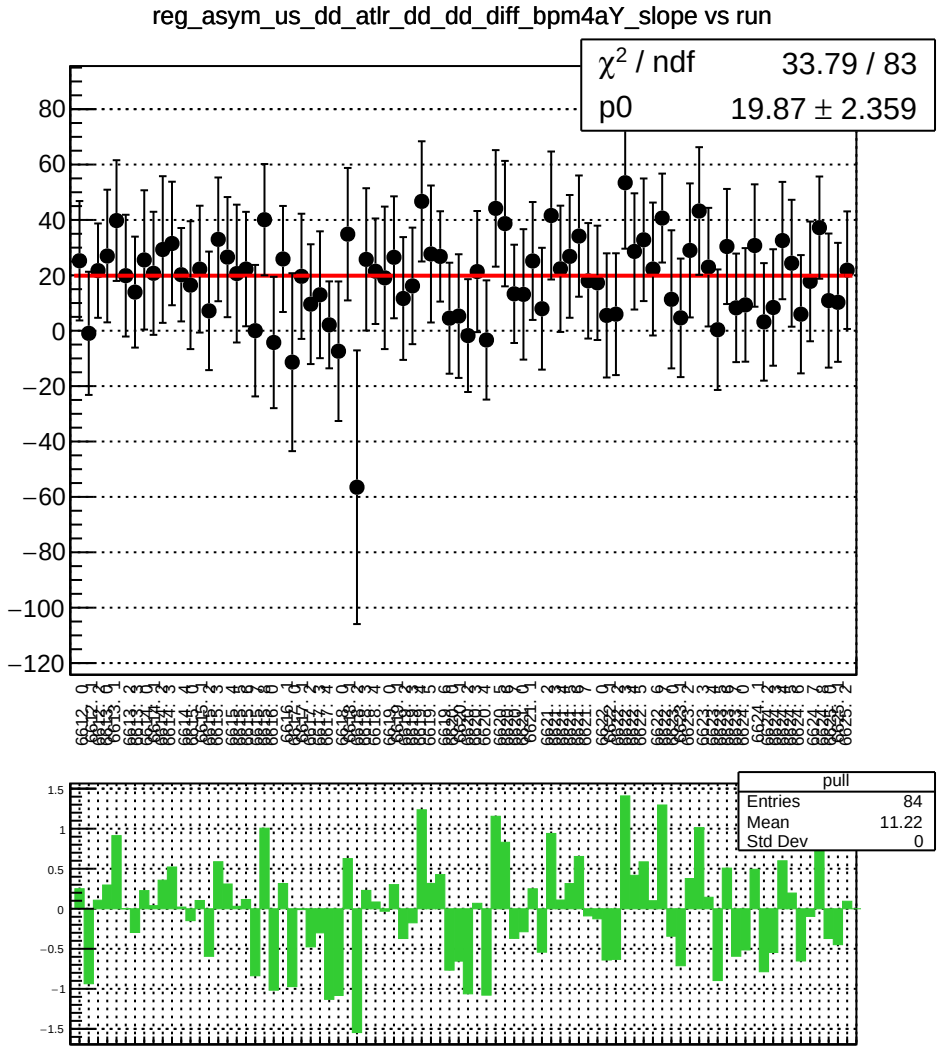

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 52.53 / 83
p0 −29.68 ± 3.552
pull
Entries 84
Mean −594.2
Std Dev 0

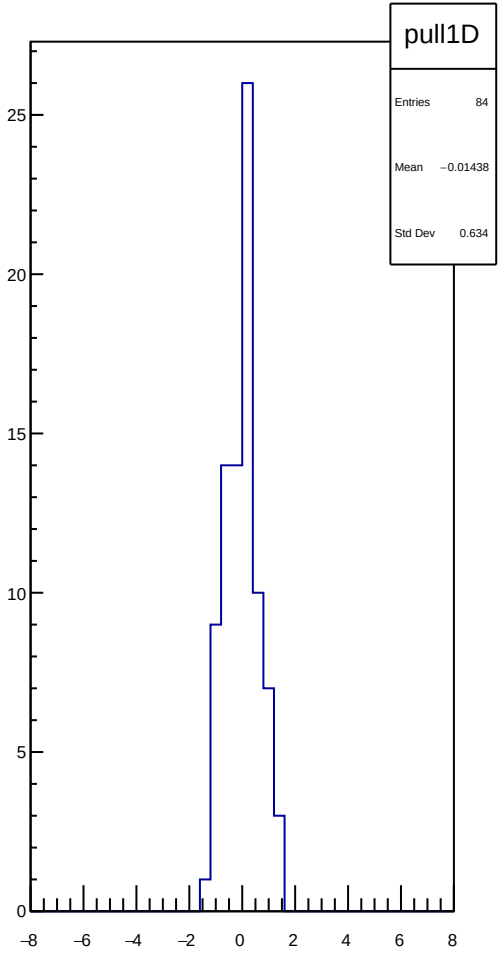

pull1D
Entries 84
Mean −0.002668
Std Dev 0.7908

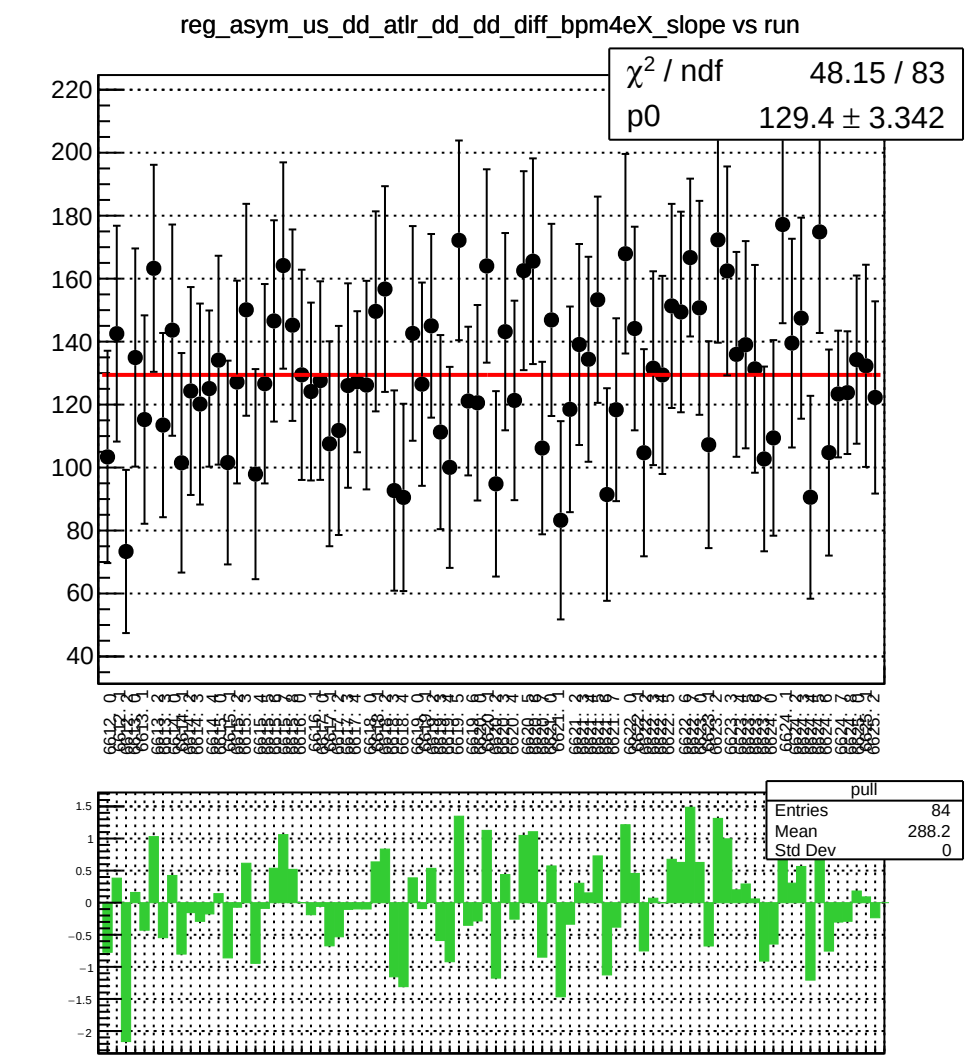

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 165.9 / 83
p0 84.52 ± 0.1772
pull
Entries 84
Mean −1332
Std Dev 0
pull1D
Entries 84
Mean 0.008704
Std Dev 1.405

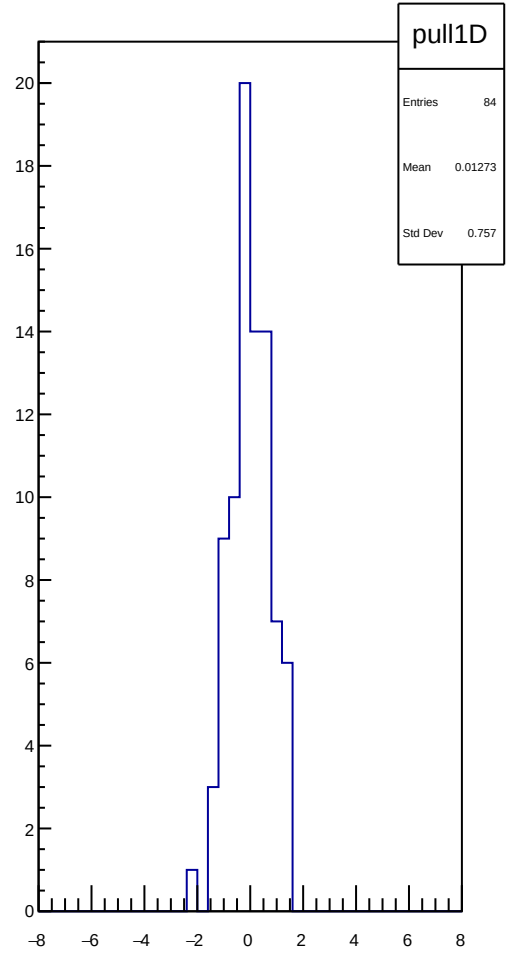

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 49.19 / 83
p0 −140.5 ± 3.25
pull
Entries 84
Mean 242.7
Std Dev 0

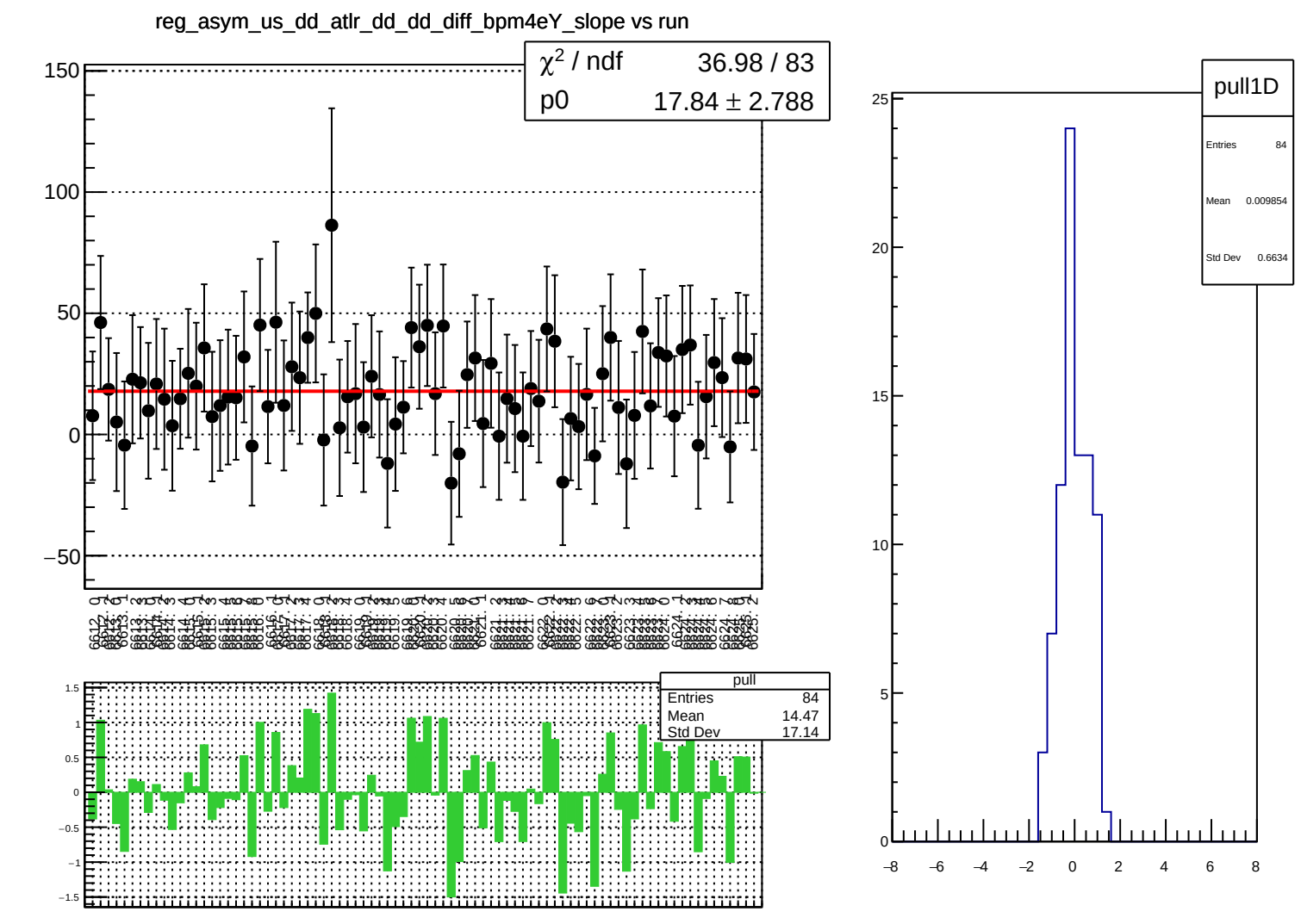

pull1D
Entries 84
Mean −0.01341
Std Dev 0.7651

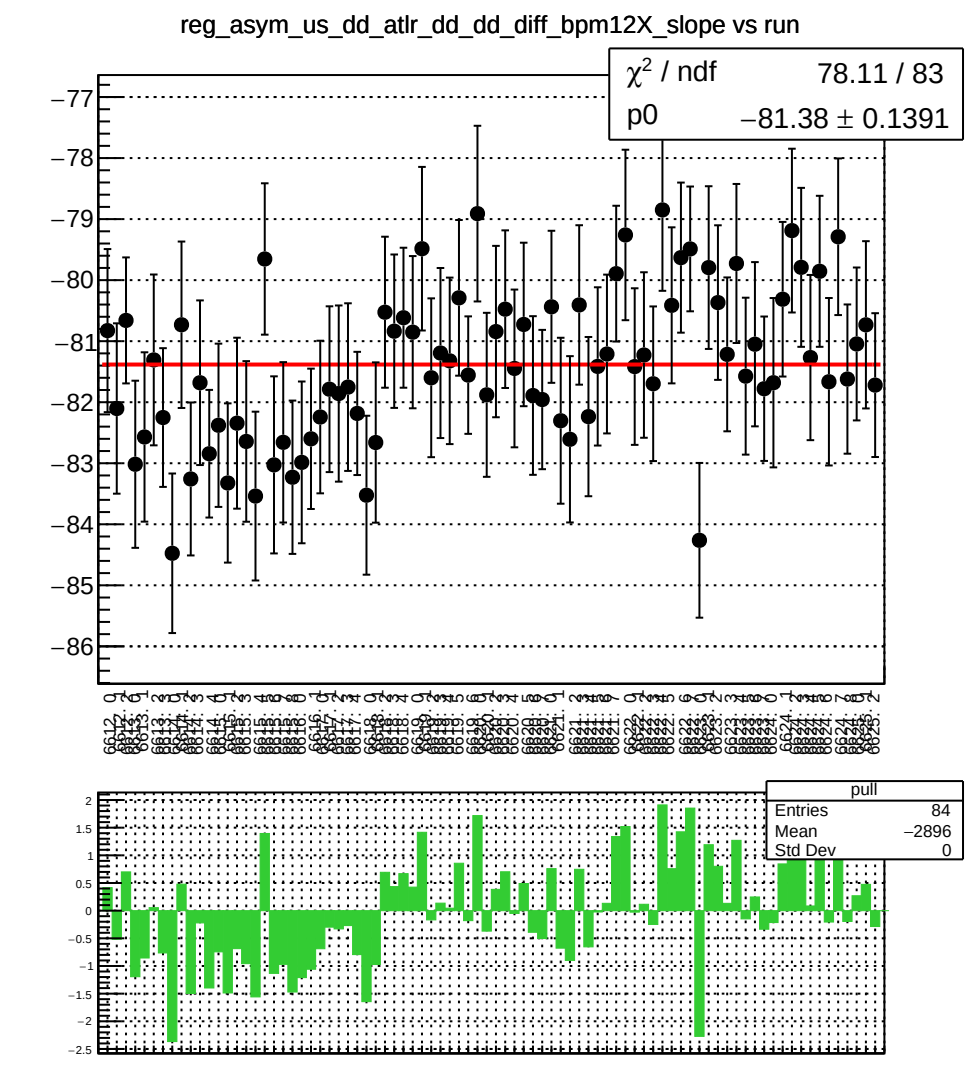

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.79 / 83
p0 19.87 ± 2.359
pull
Entries 84
Mean 11.22
Std Dev 0

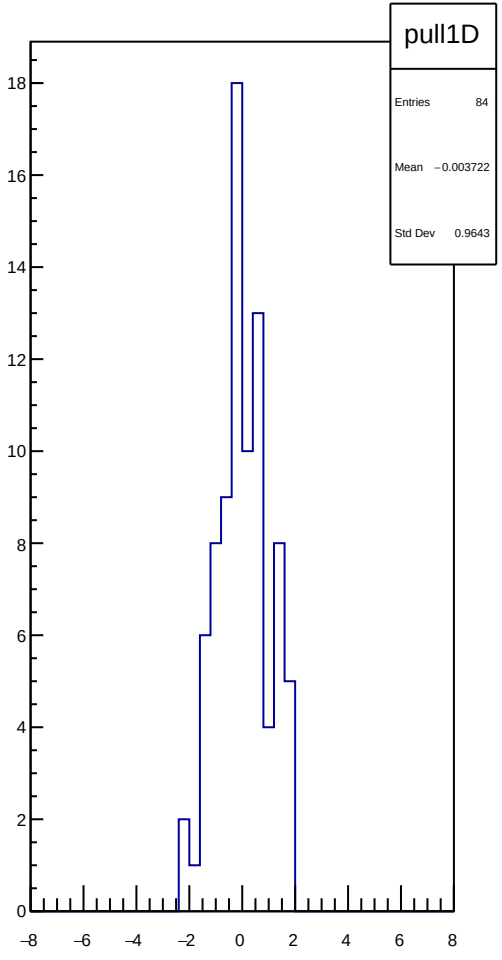

pull1D
Entries 84
Mean −0.01438
Std Dev 0.634

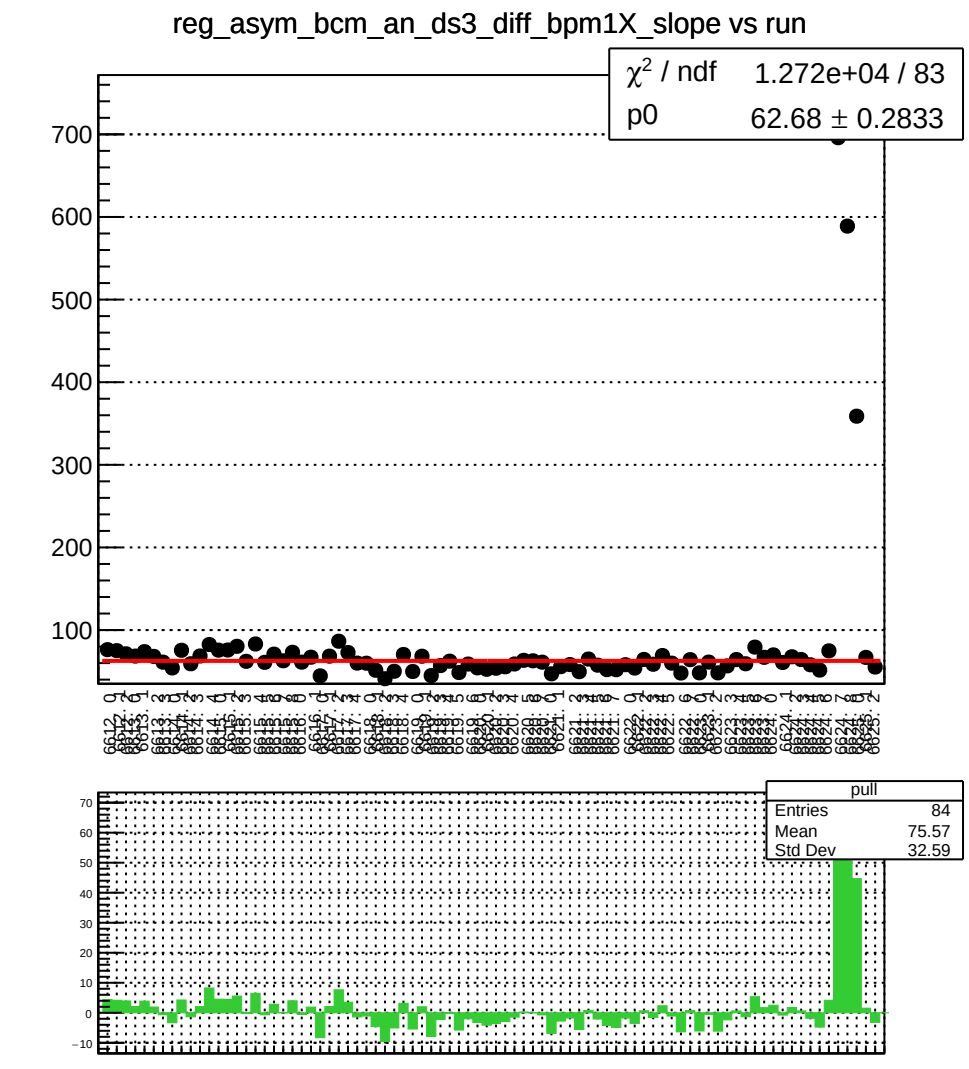

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.15 / 83
p0 129.4 ± 3.342
pull
Entries 84
Mean 288.2
Std Dev 0

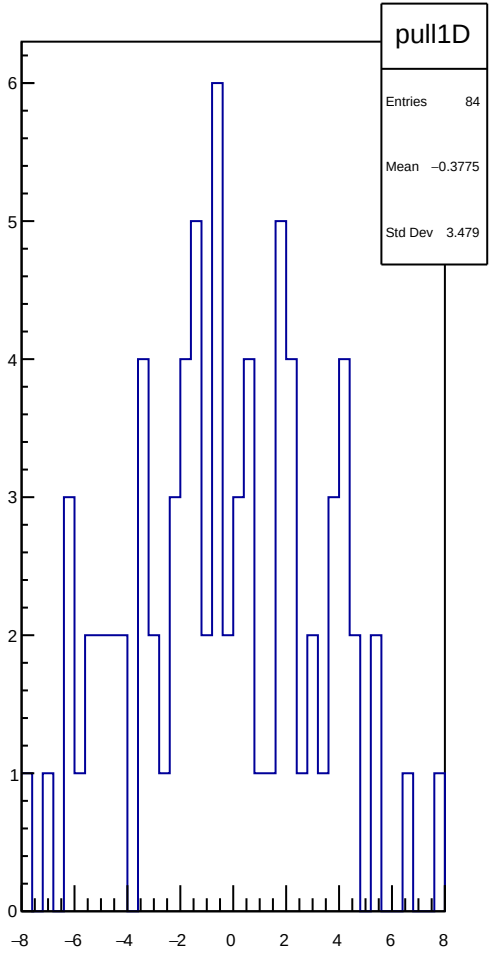

pull1D
Entries 84
Mean 0.01273
Std Dev 0.757

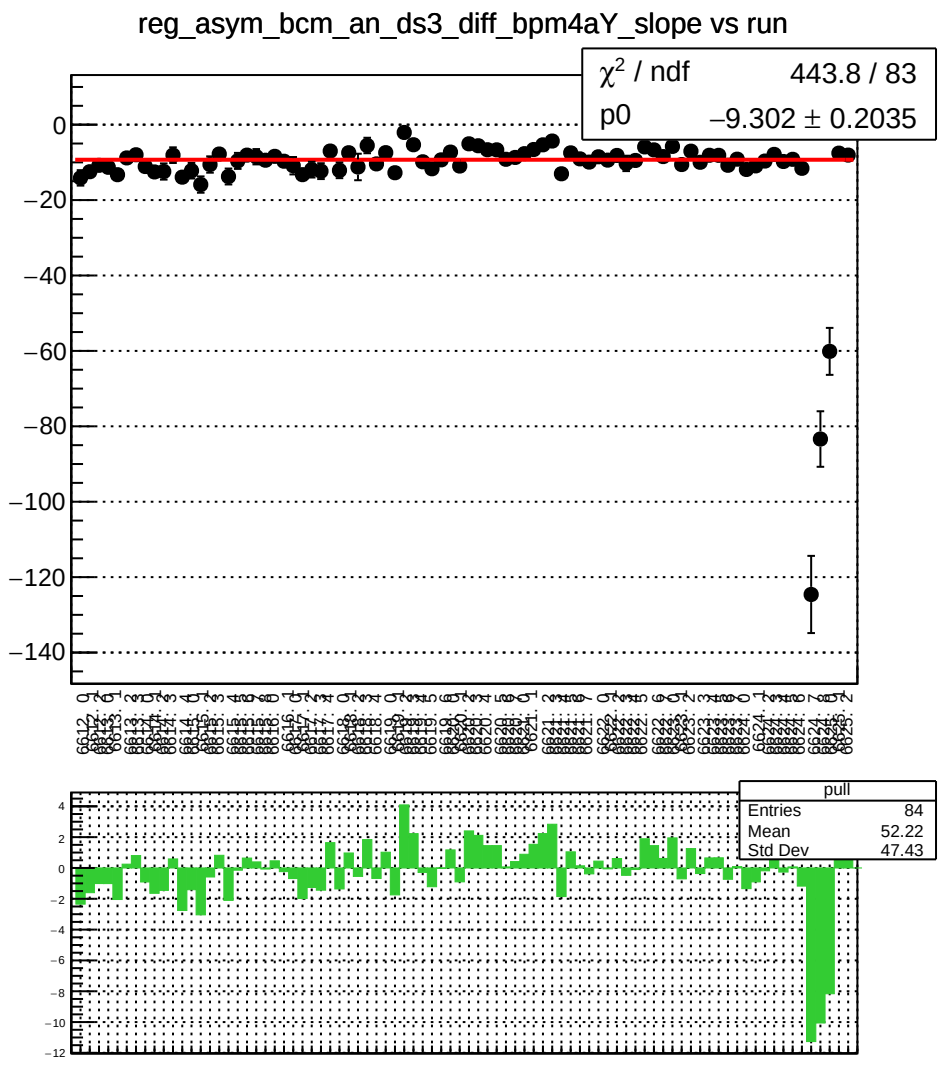

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.98 / 83
p0 17.84 ± 2.788
150
100
50
0
−50
pull
Entries 84
Mean 14.47
Std Dev 17.14
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.009854
Std Dev 0.6634
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

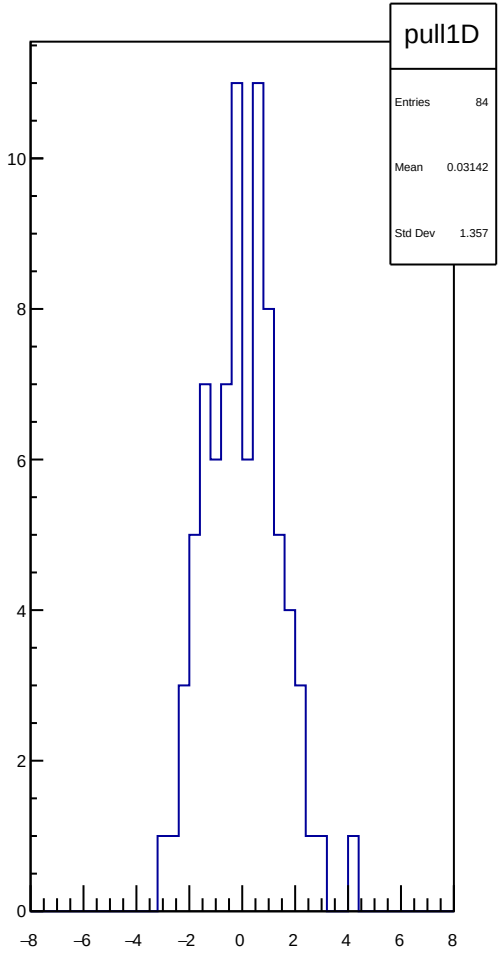

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 78.11 / 83
p0 −81.38 ± 0.1391
pull
Entries 84
Mean −2896
Std Dev 0

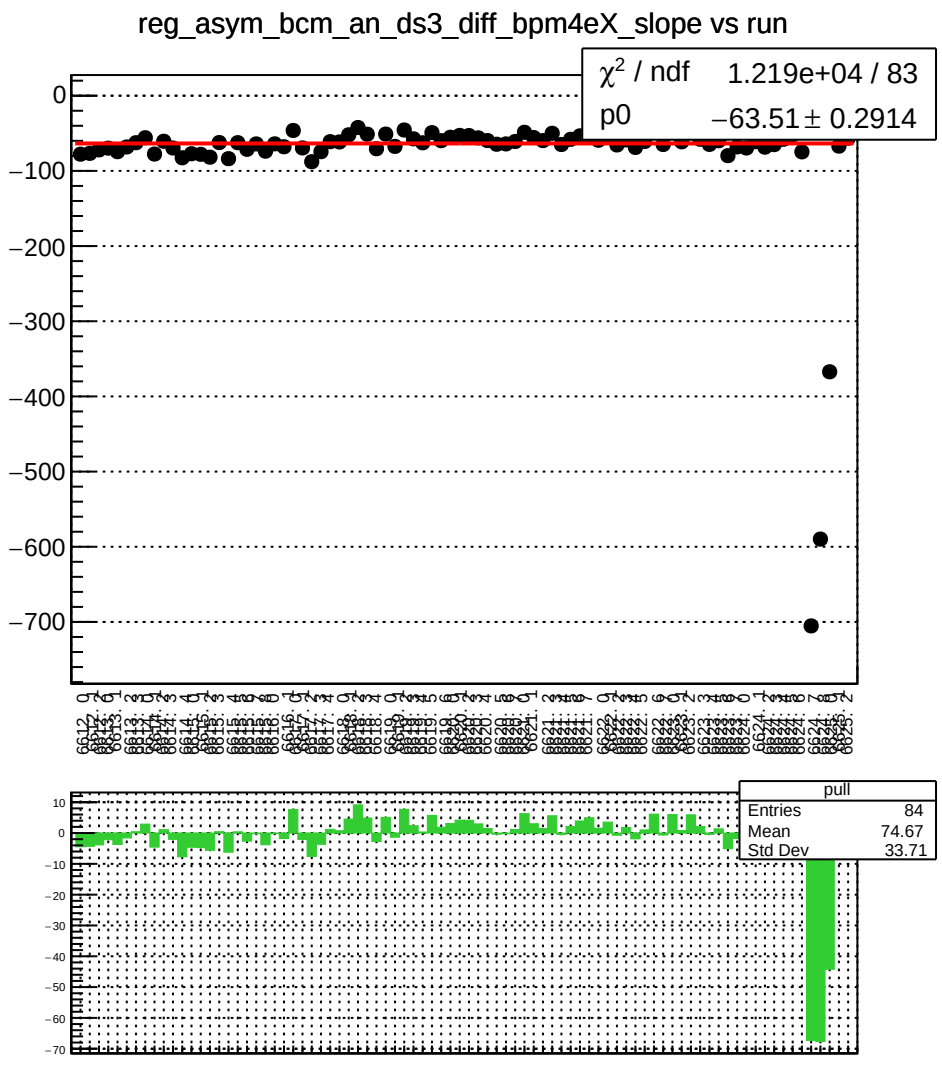

pull1D
Entries 84
Mean −0.003722
Std Dev 0.9643

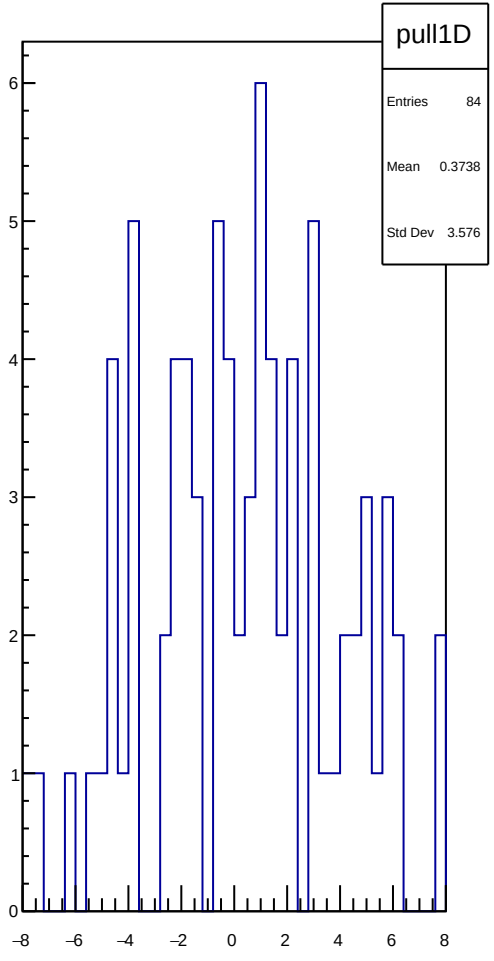

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 1.272e+04 / 83
p0 62.68 ± 0.2833
pull
Entries 84
Mean 75.57
Std Dev 32.59

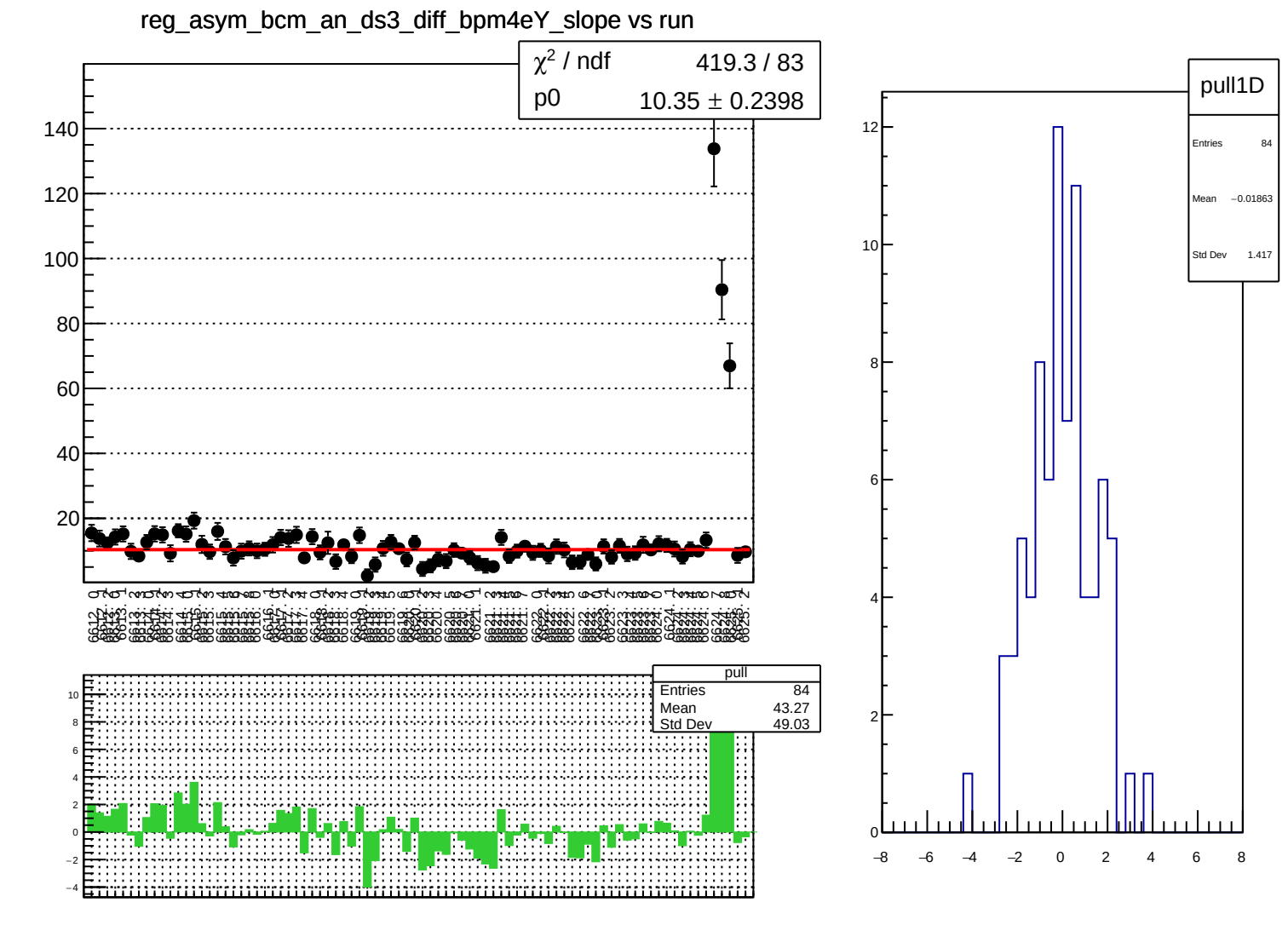

pull1D
Entries 84
Mean −0.3775
Std Dev 3.479

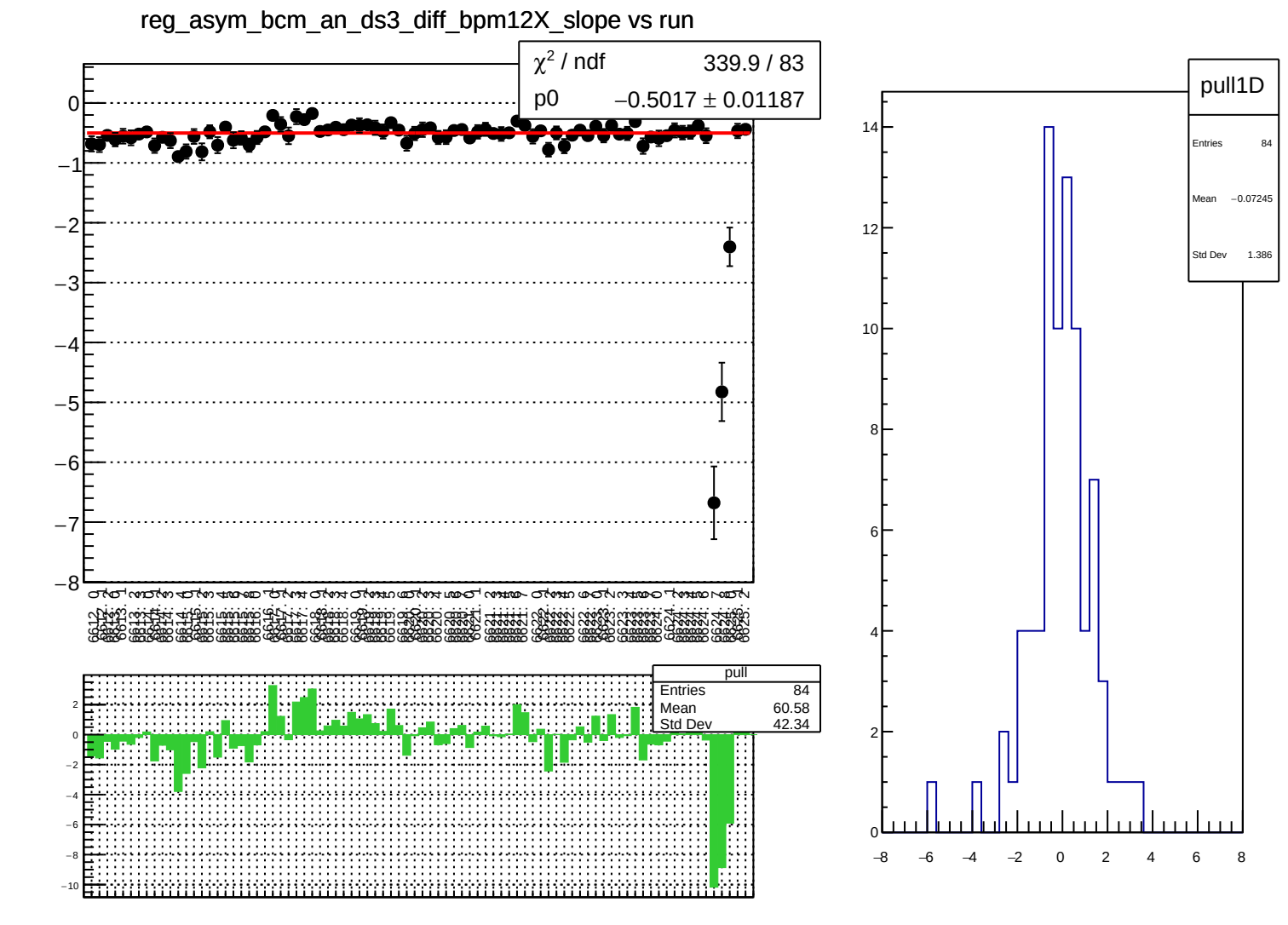

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 443.8 / 83
p0 −9.302 ± 0.2035
pull
Entries 84
Mean 52.22
Std Dev 47.43

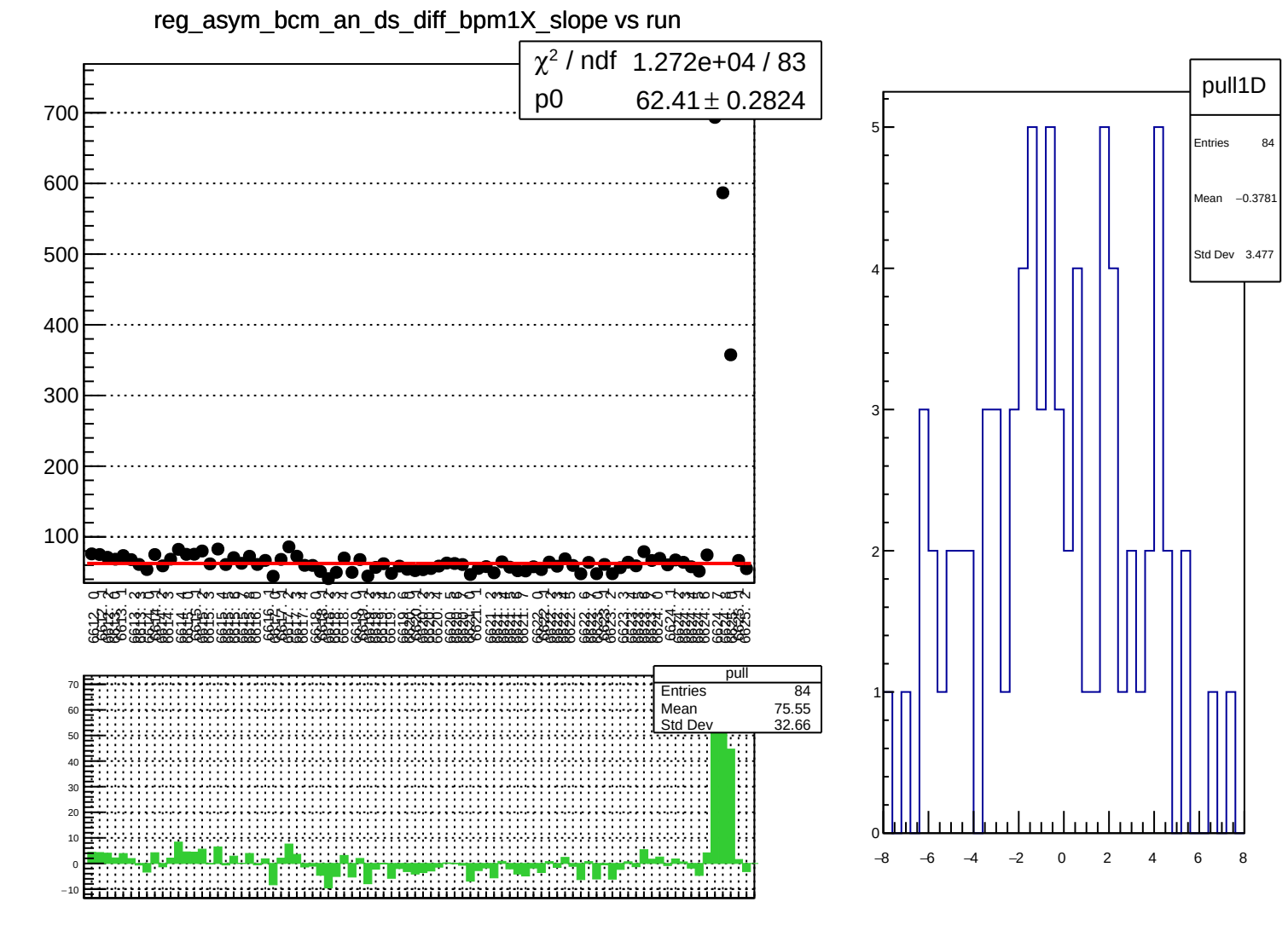

pull1D
Entries 84
Mean 0.03142
Std Dev 1.357

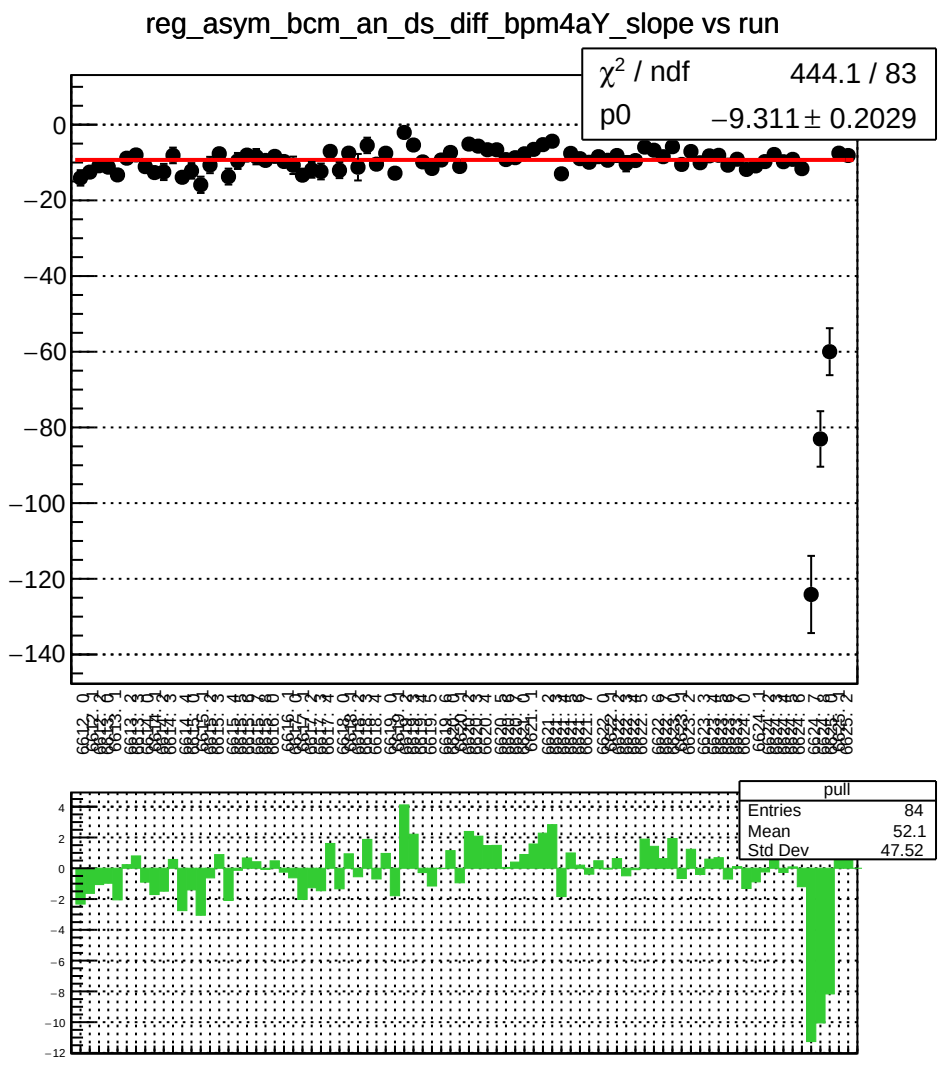

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 1.219e+04 / 83
p0 −63.51 ± 0.2914
pull
Entries 84
Mean 74.67
Std Dev 33.71

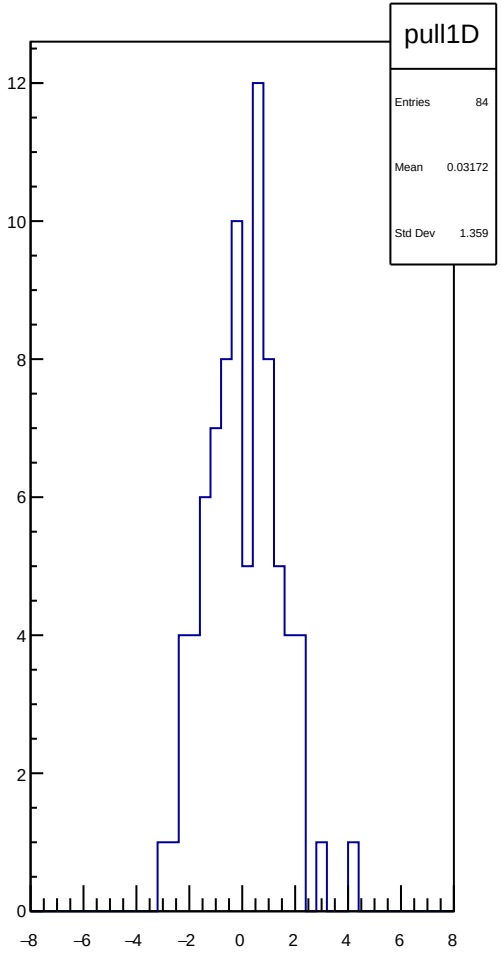

pull1D
Entries 84
Mean 0.3738
Std Dev 3.576

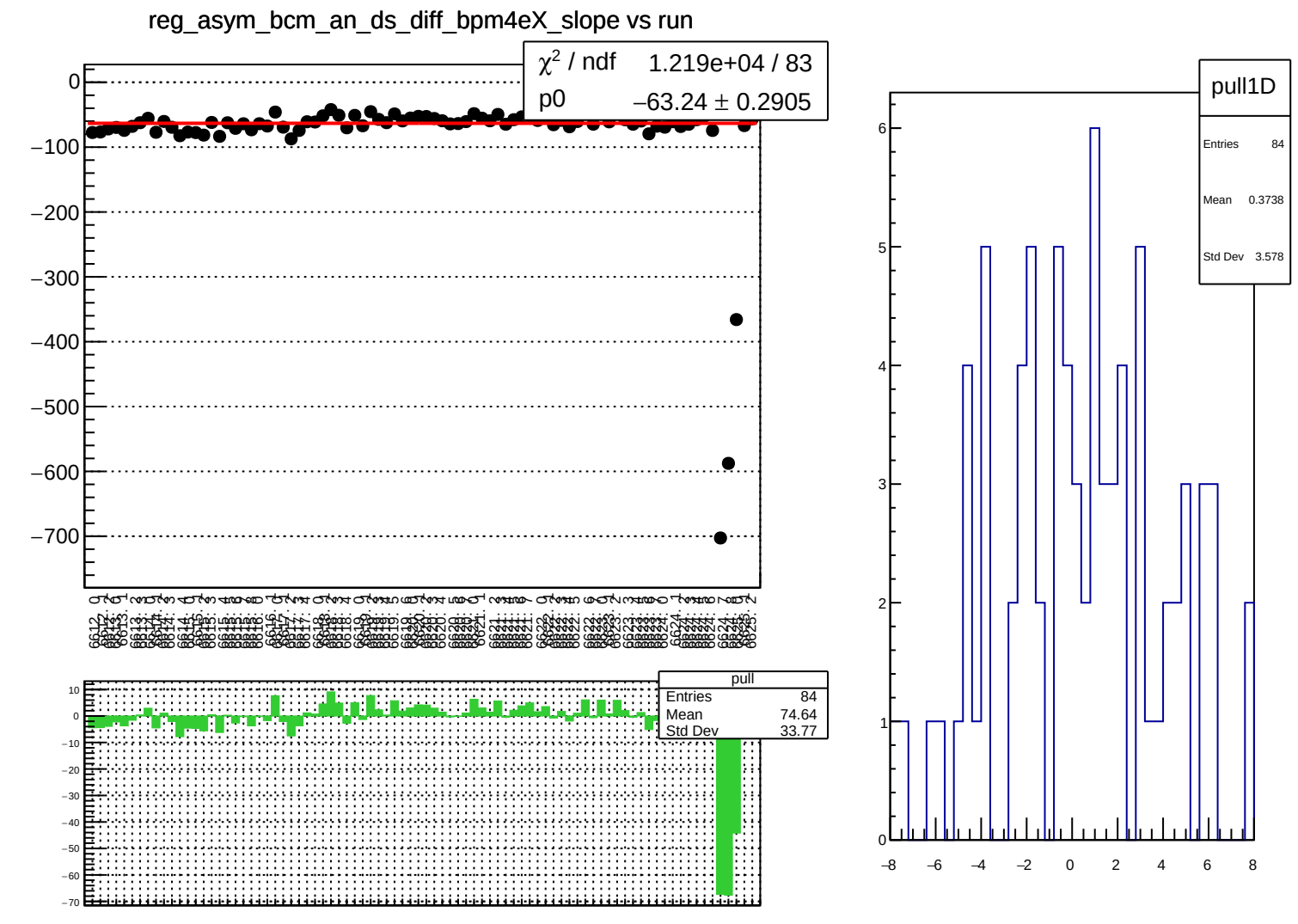

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 419.3 / 83
p0 10.35 ± 0.2398
pull
Entries 84
Mean 43.27
Std Dev 49.03
pull1D
Entries 84
Mean −0.01863
Std Dev 1.417

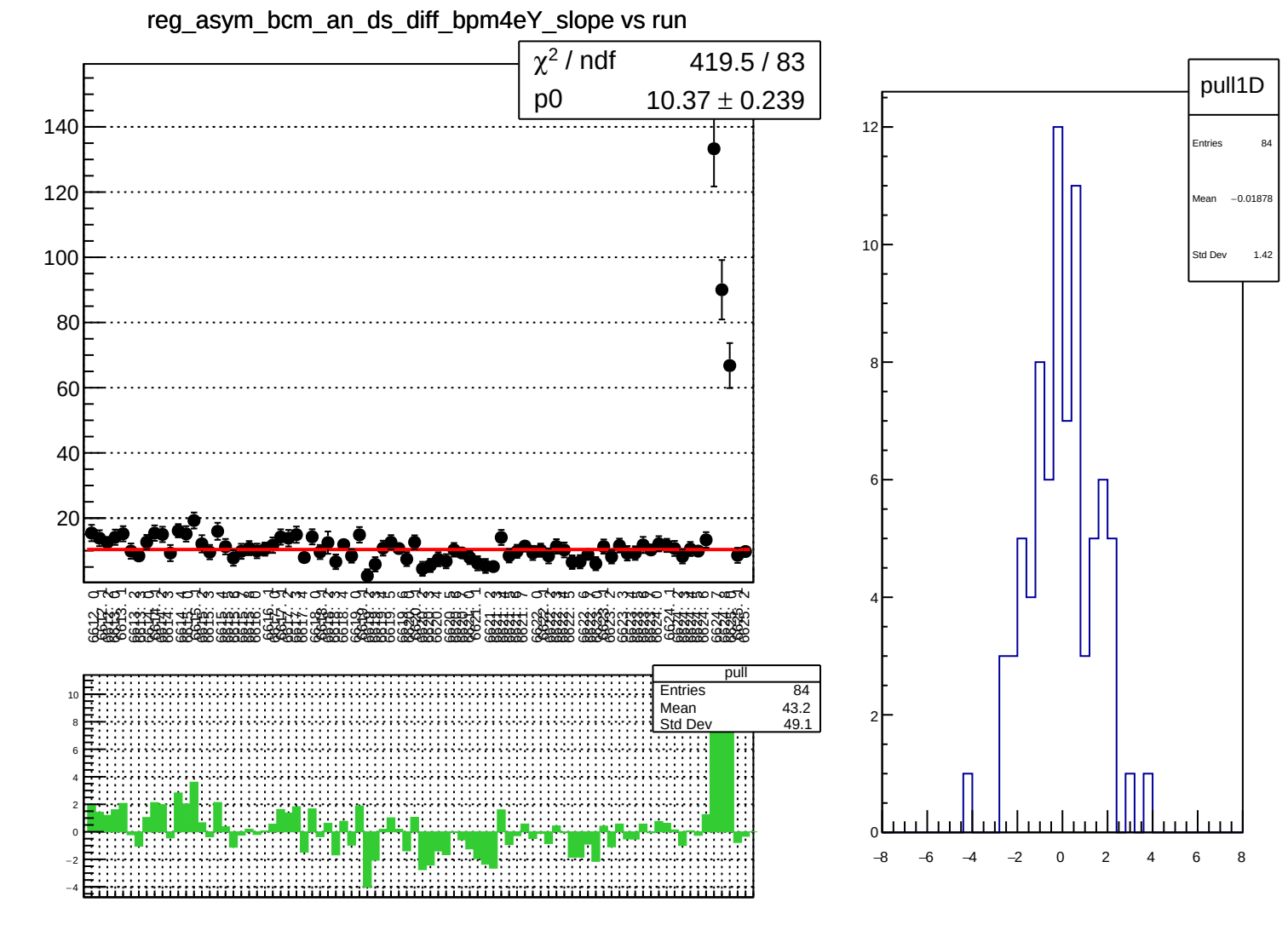

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 339.9 / 83
p0 −0.5017 ± 0.01187
pull
Entries 84
Mean 60.58
Std Dev 42.34
pull1D
Entries 84
Mean −0.07245
Std Dev 1.386

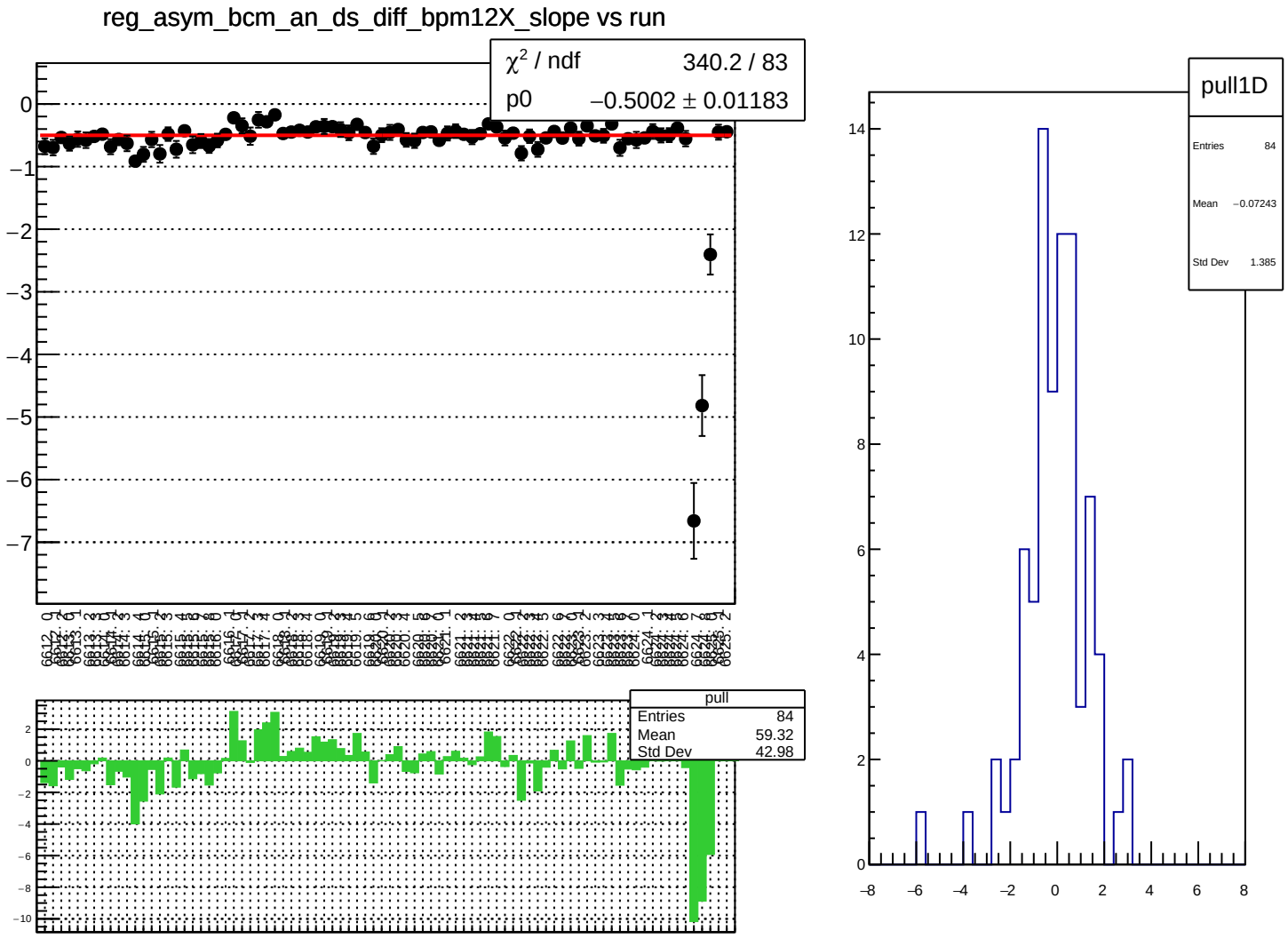

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 1.272e+04 / 83
p0 62.41 ± 0.2824
700
600
500
400
300
200
100
pull
Entries 84
Mean 75.55
Std Dev 32.66
70
60
50
40
30
20
10
0
−10
pull1D
Entries 84
Mean −0.3781
Std Dev 3.477
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

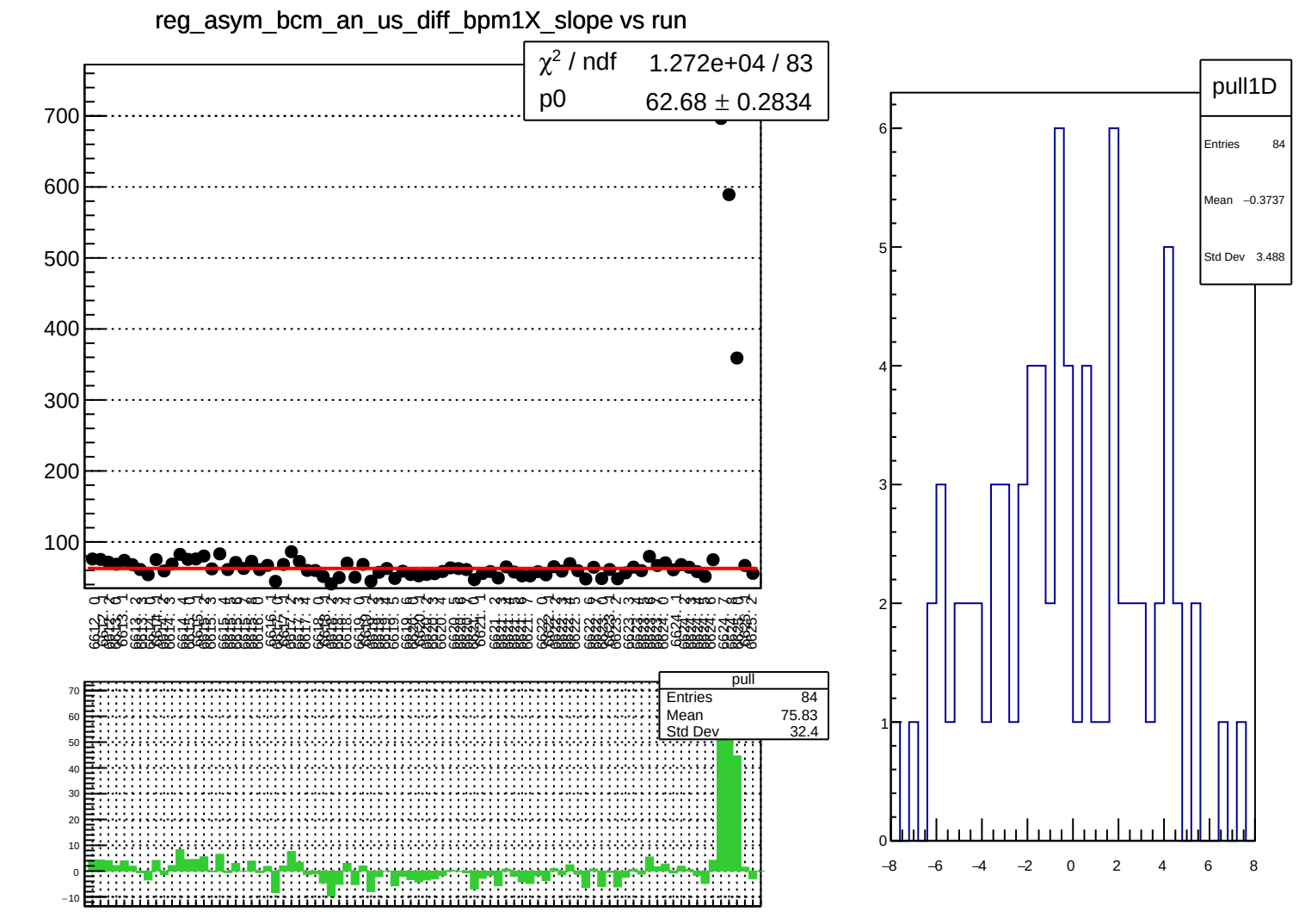

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 444.1 / 83
p0 −9.311 ± 0.2029
pull
Entries 84
Mean 52.1
Std Dev 47.52

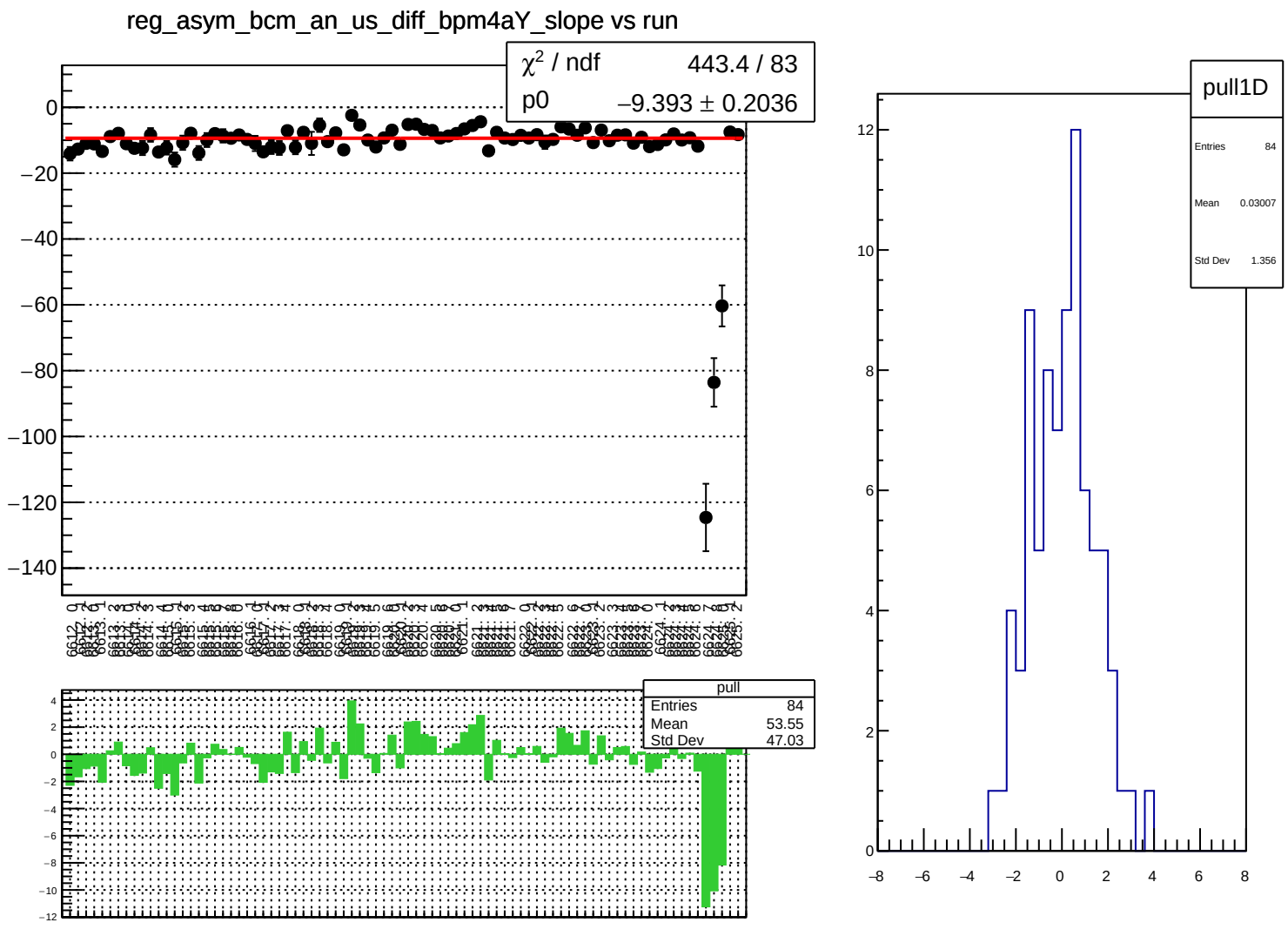

pull1D
Entries 84
Mean 0.03172
Std Dev 1.359

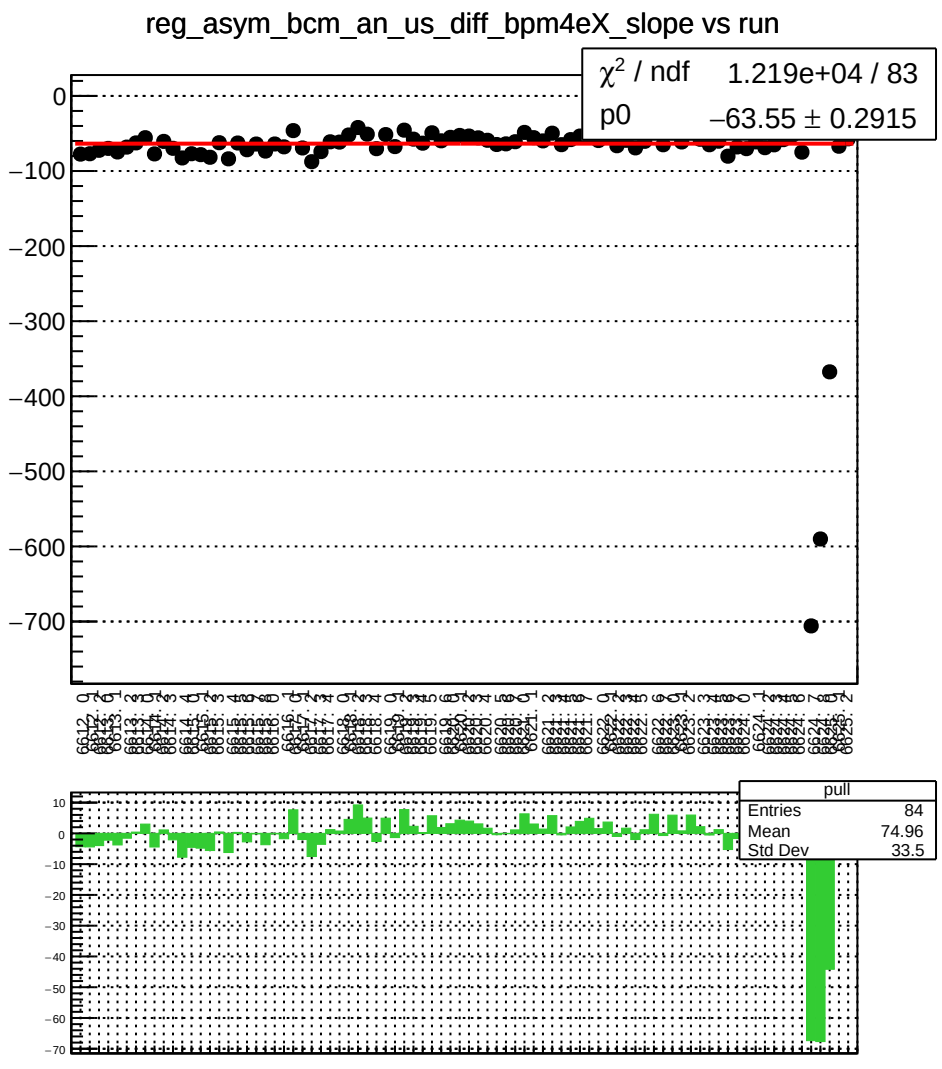

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 1.219e+04 / 83
p0 −63.24 ± 0.2905
pull
Entries 84
Mean 74.64
Std Dev 33.77
pull1D
Entries 84
Mean 0.3738
Std Dev 3.578

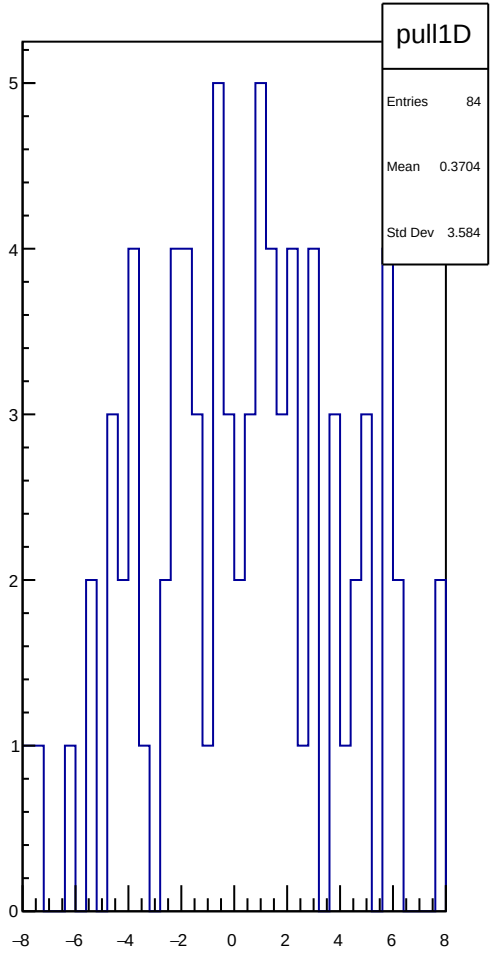

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 419.5 / 83
p0 10.37 ± 0.239
pull
Entries 84
Mean 43.2
Std Dev 49.1
pull1D
Entries 84
Mean −0.01878
Std Dev 1.42

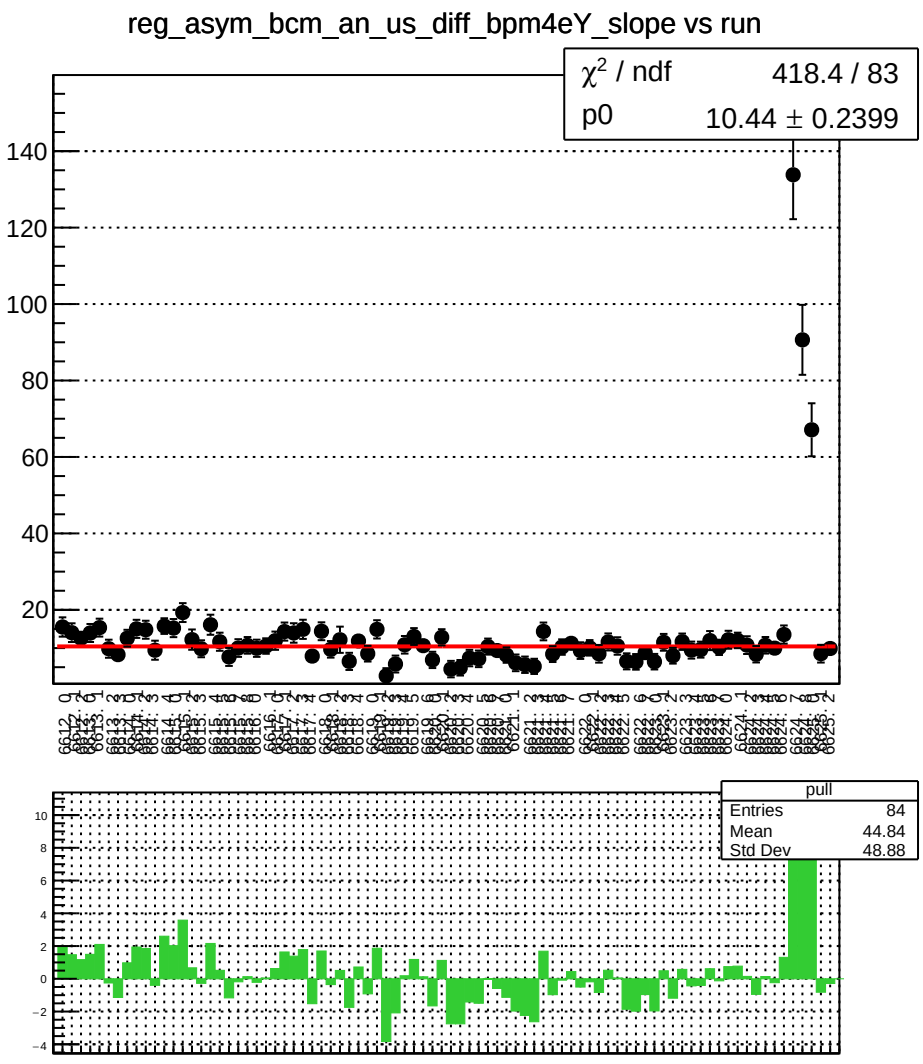

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 340.2 / 83
p0 −0.5002 ± 0.01183
pull
Entries 84
Mean 59.32
Std Dev 42.98
pull1D
Entries 84
Mean −0.07243
Std Dev 1.385

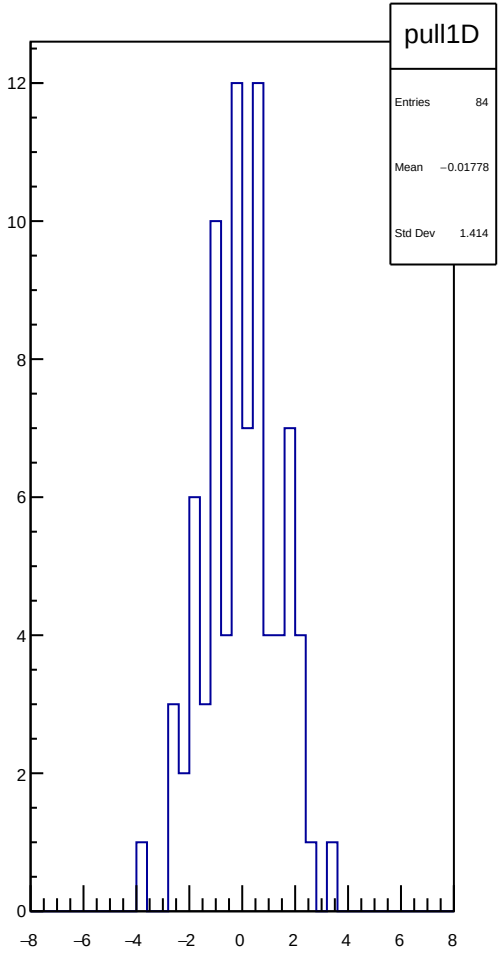

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 1.272e+04 / 83
p0 62.68 ± 0.2834
700
600
500
400
300
200
100
pull
Entries 84
Mean 75.83
Std Dev 32.4
70
60
50
40
30
20
10
0
−10
pull1D
Entries 84
Mean −0.3737
Std Dev 3.488
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

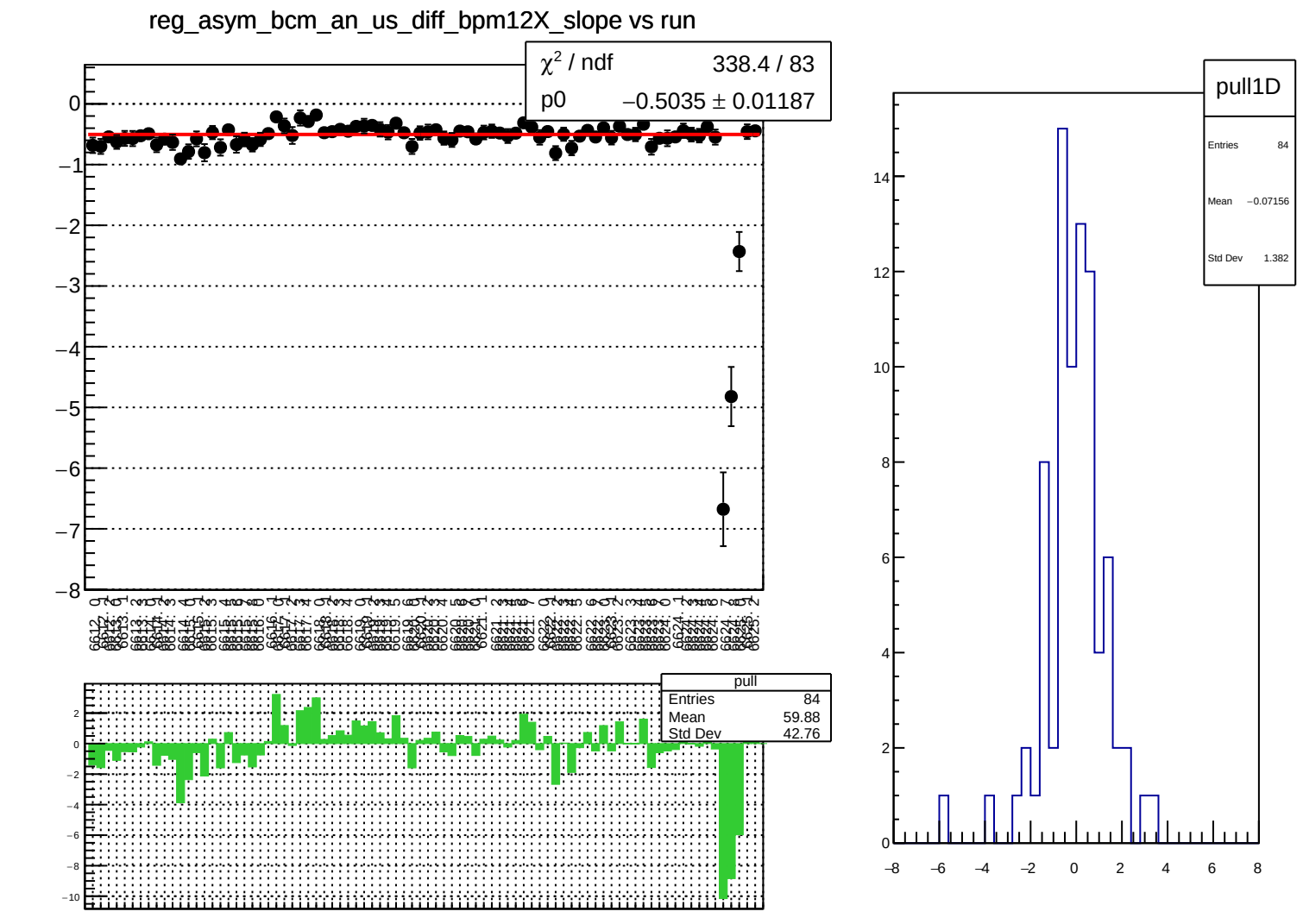

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 443.4 / 83
p0 −9.393 ± 0.2036
pull
Entries 84
Mean 53.55
Std Dev 47.03
pull1D
Entries 84
Mean 0.03007
Std Dev 1.356

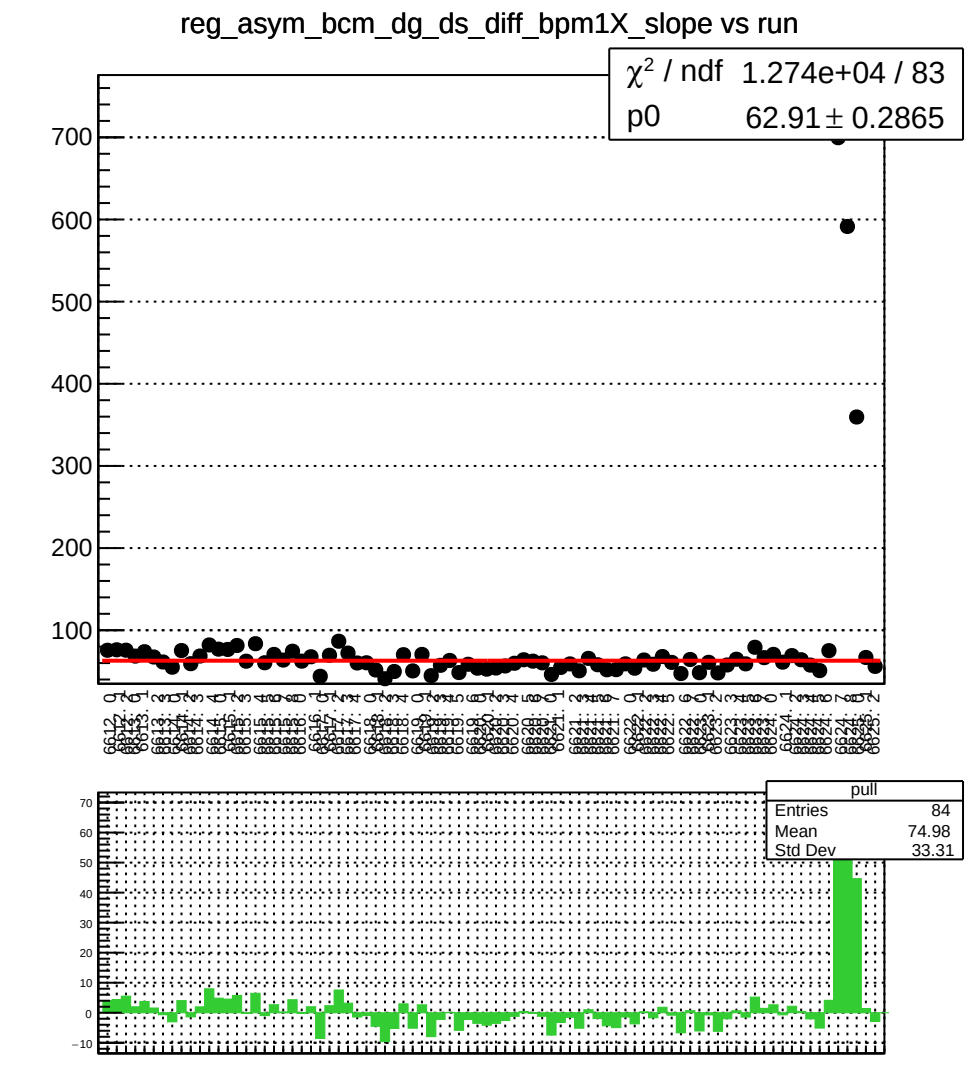

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 1.219e+04 / 83
p0 −63.55 ± 0.2915
pull
Entries 84
Mean 74.96
Std Dev 33.5

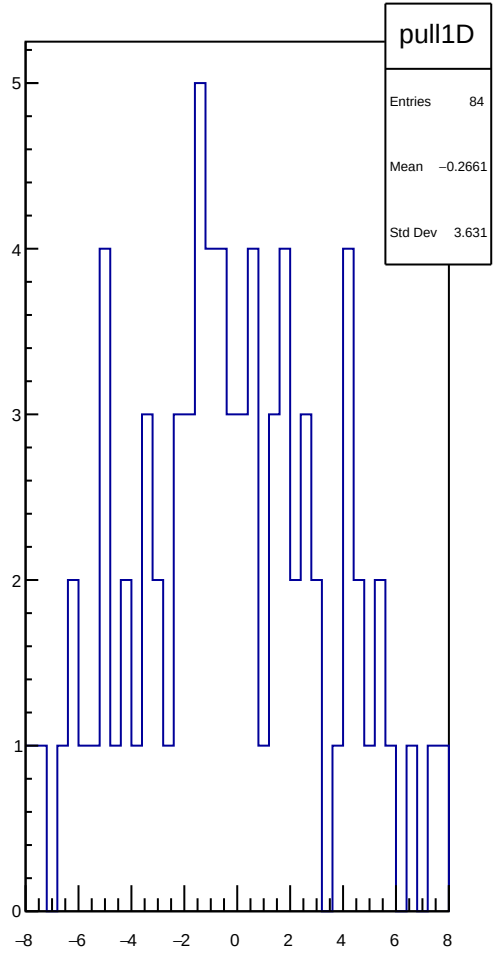

pull1D
Entries 84
Mean 0.3704
Std Dev 3.584

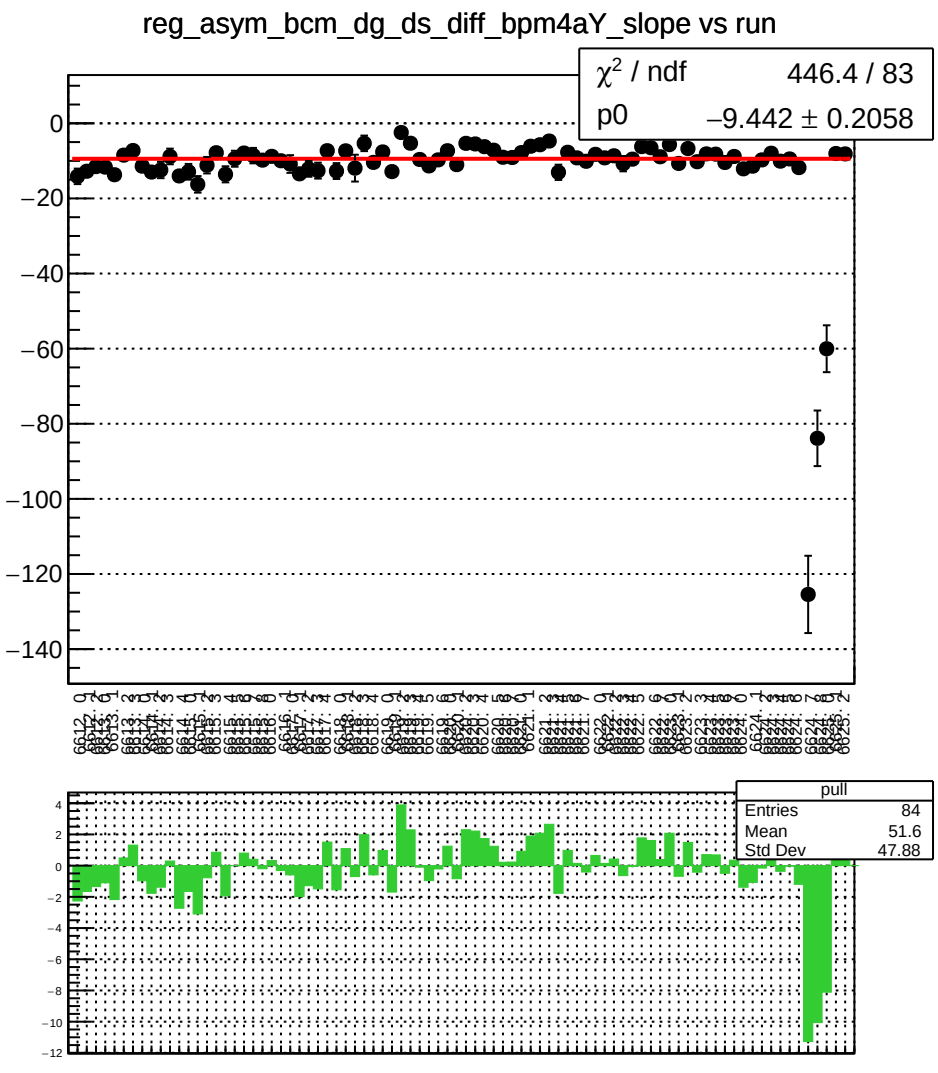

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 418.4 / 83
p0 10.44 ± 0.2399
pull
Entries 84
Mean 44.84
Std Dev 48.88

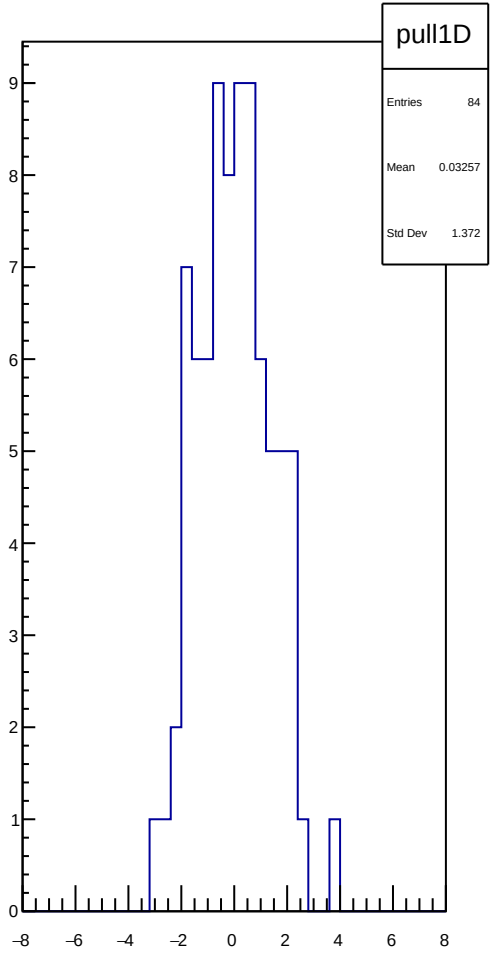

pull1D
Entries 84
Mean −0.01778
Std Dev 1.414

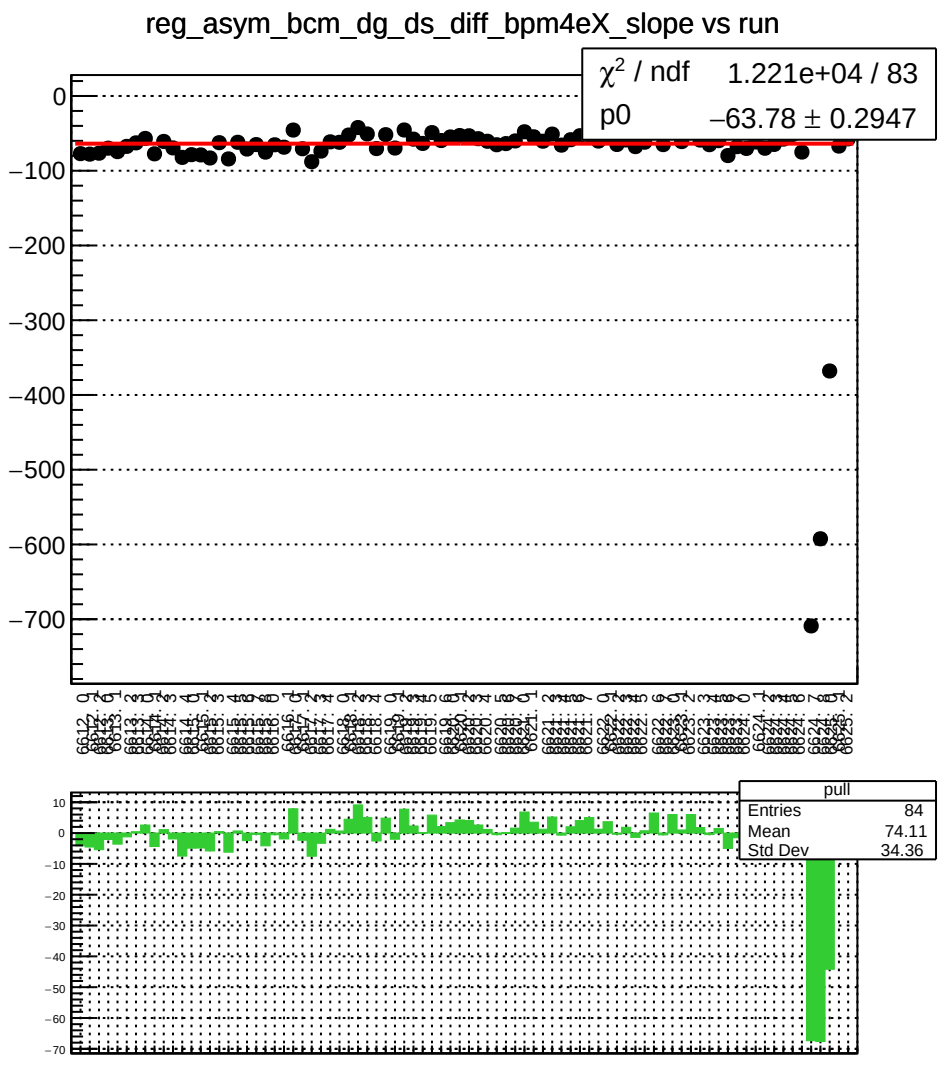

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 338.4 / 83
p0 −0.5035 ± 0.01187
pull
Entries 84
Mean 59.88
Std Dev 42.76
pull1D
Entries 84
Mean −0.07156
Std Dev 1.382

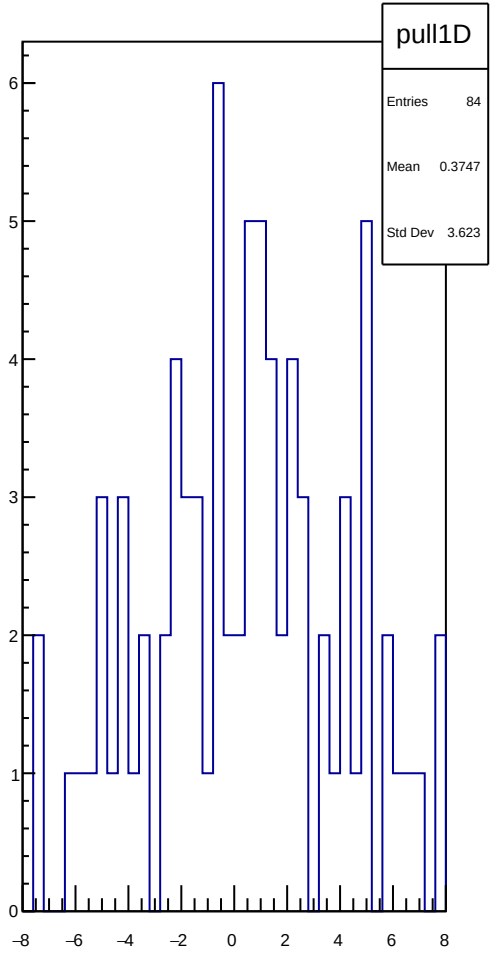

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 1.274e+04 / 83
p0 62.91 ± 0.2865
pull
Entries 84
Mean 74.98
Std Dev 33.31

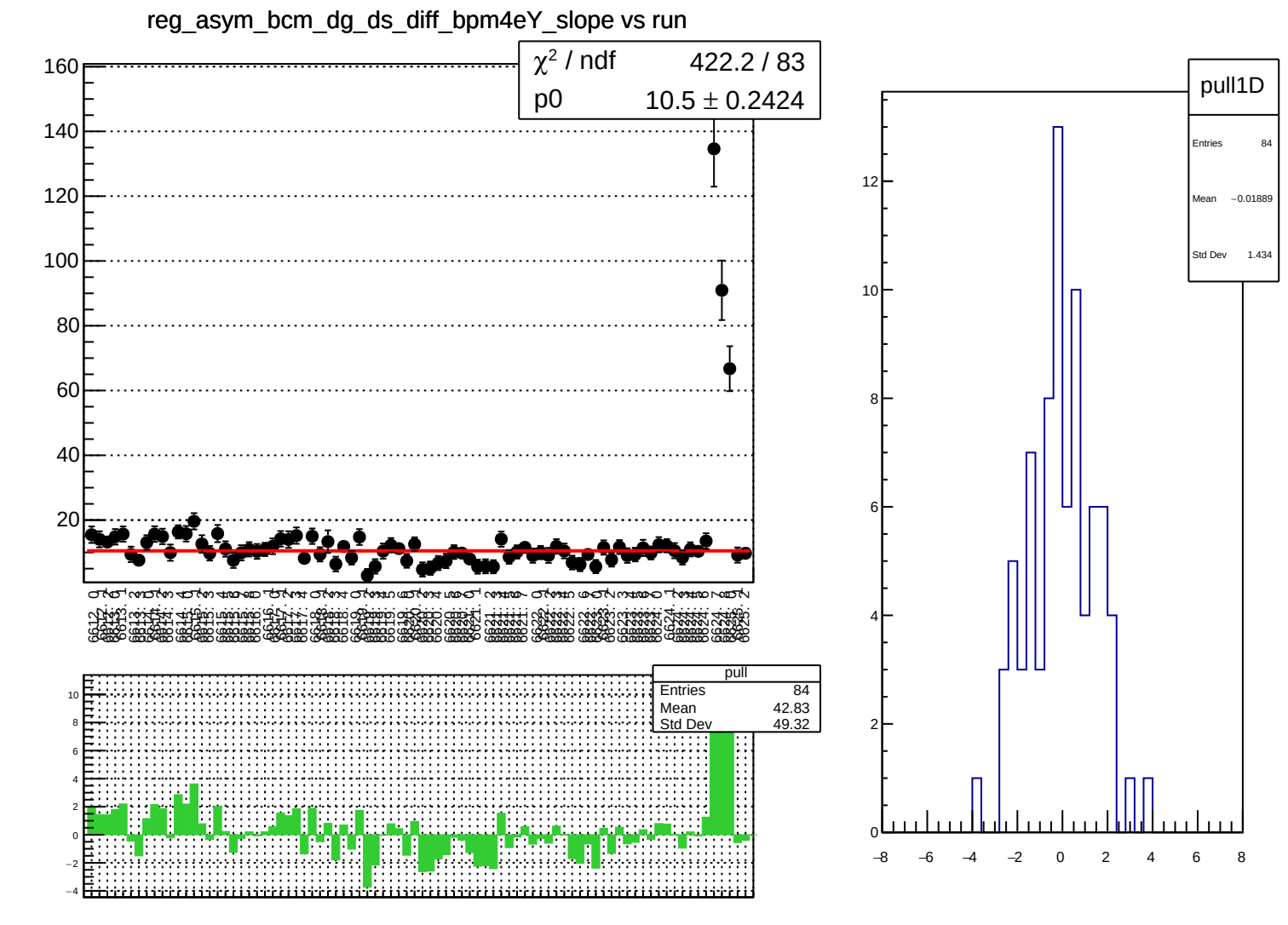

pull1D
Entries 84
Mean −0.2661
Std Dev 3.631

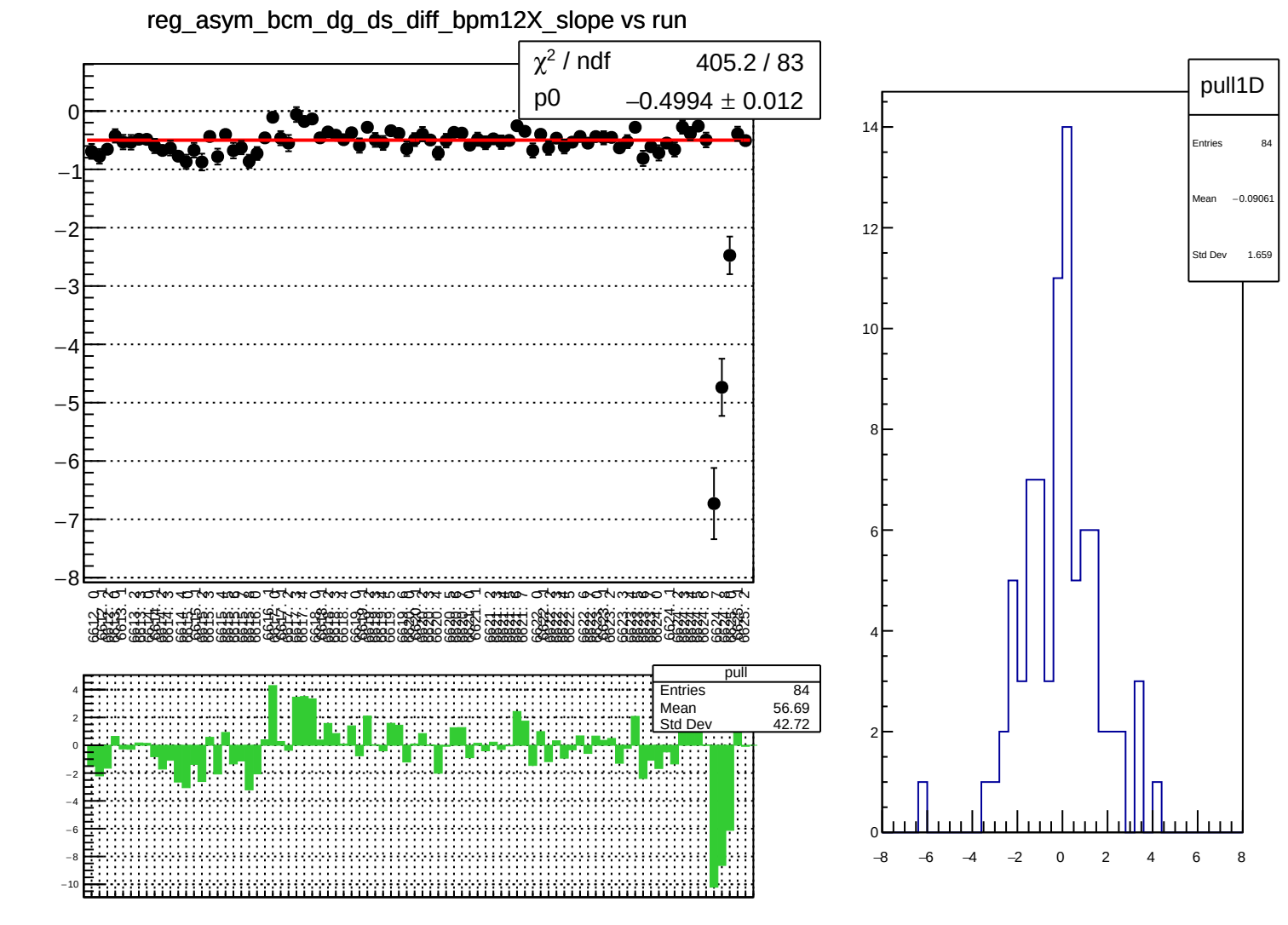

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 446.4 / 83
p0 −9.442 ± 0.2058
pull
Entries 84
Mean 51.6
Std Dev 47.88

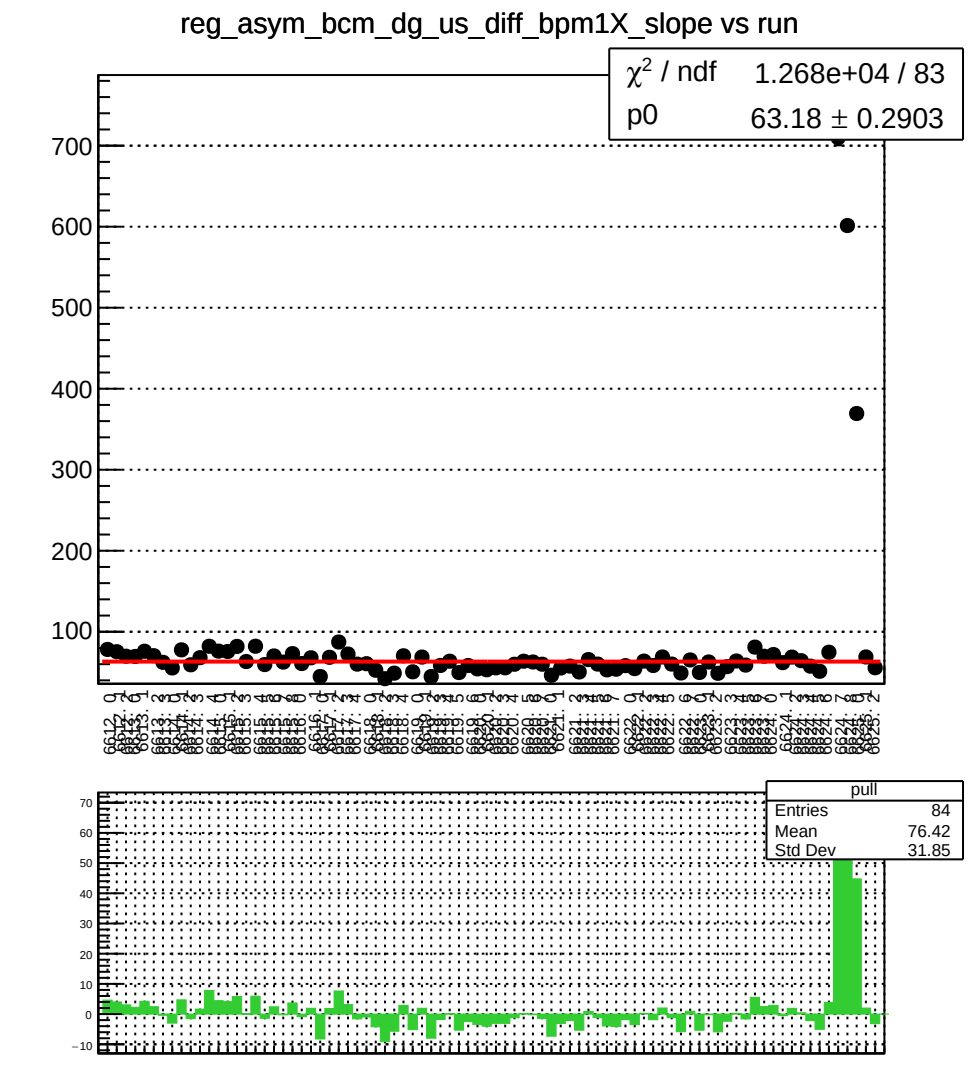

pull1D
Entries 84
Mean 0.03257
Std Dev 1.372

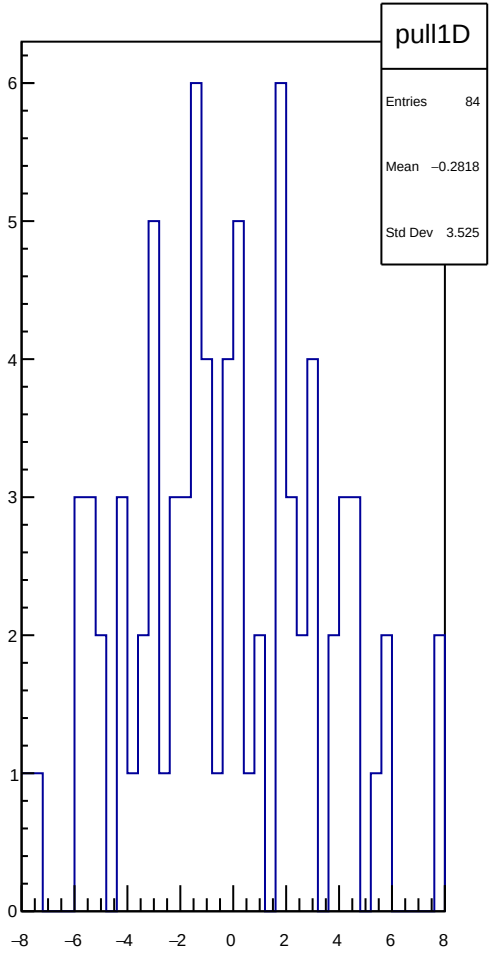

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 1.221e+04 / 83
p0 −63.78 ± 0.2947
pull
Entries 84
Mean 74.11
Std Dev 34.36

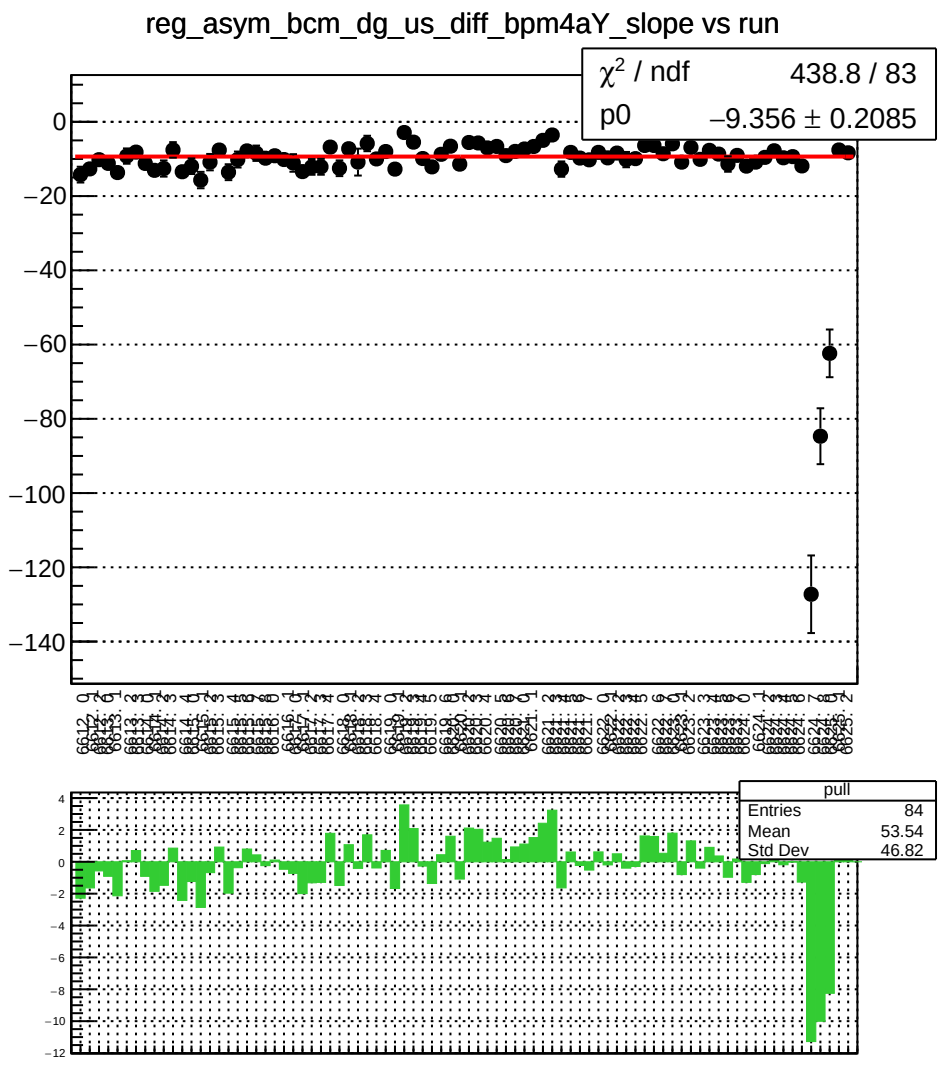

pull1D
Entries 84
Mean 0.3747
Std Dev 3.623

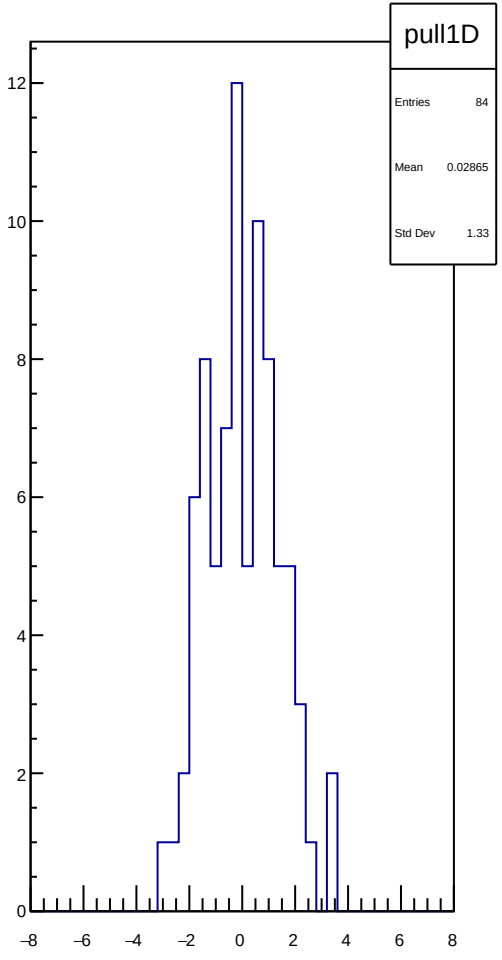

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 422.2 / 83
p0 10.5 ± 0.2424
pull
Entries 84
Mean 42.83
Std Dev 49.32
pull1D
Entries 84
Mean −0.01889
Std Dev 1.434

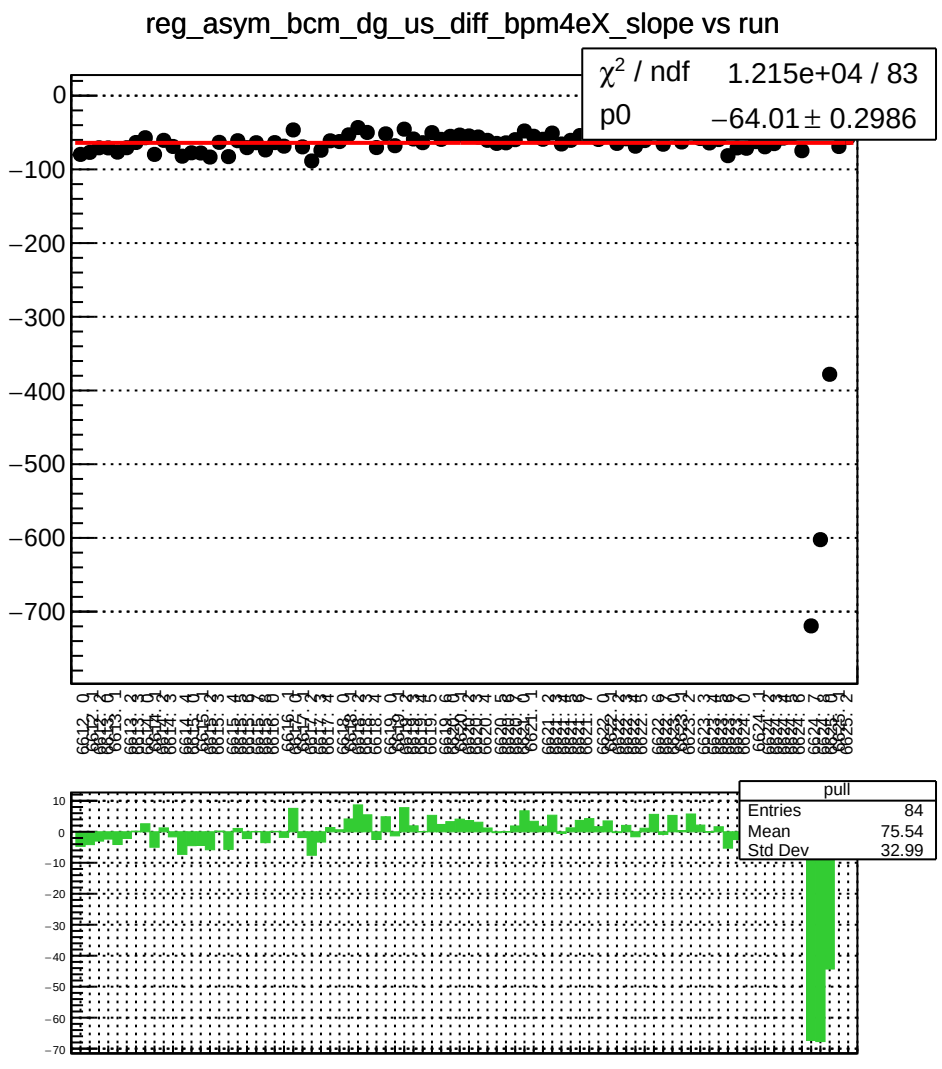

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 405.2 / 83
p0 −0.4994 ± 0.012
pull
Entries 84
Mean 56.69
Std Dev 42.72
pull1D
Entries 84
Mean −0.09061
Std Dev 1.659

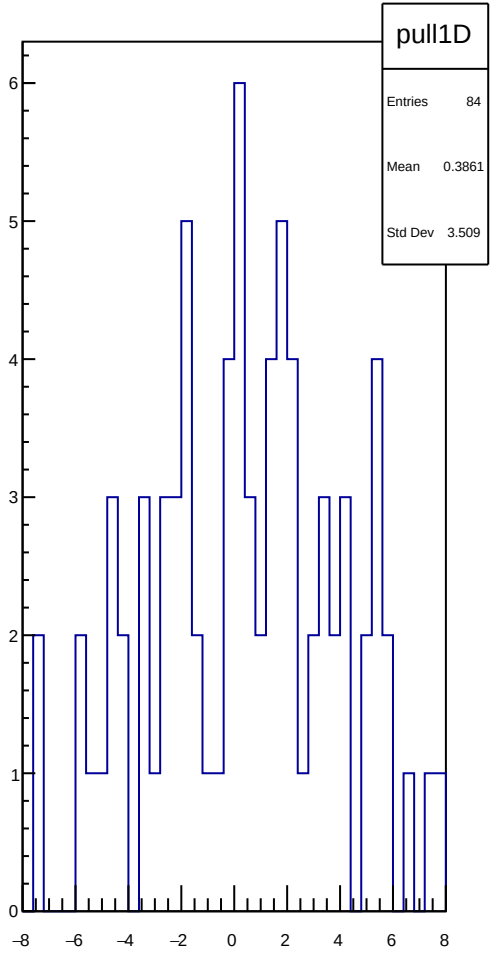

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 1.268e+04 / 83
p0 63.18 ± 0.2903
pull
Entries 84
Mean 76.42
Std Dev 31.85

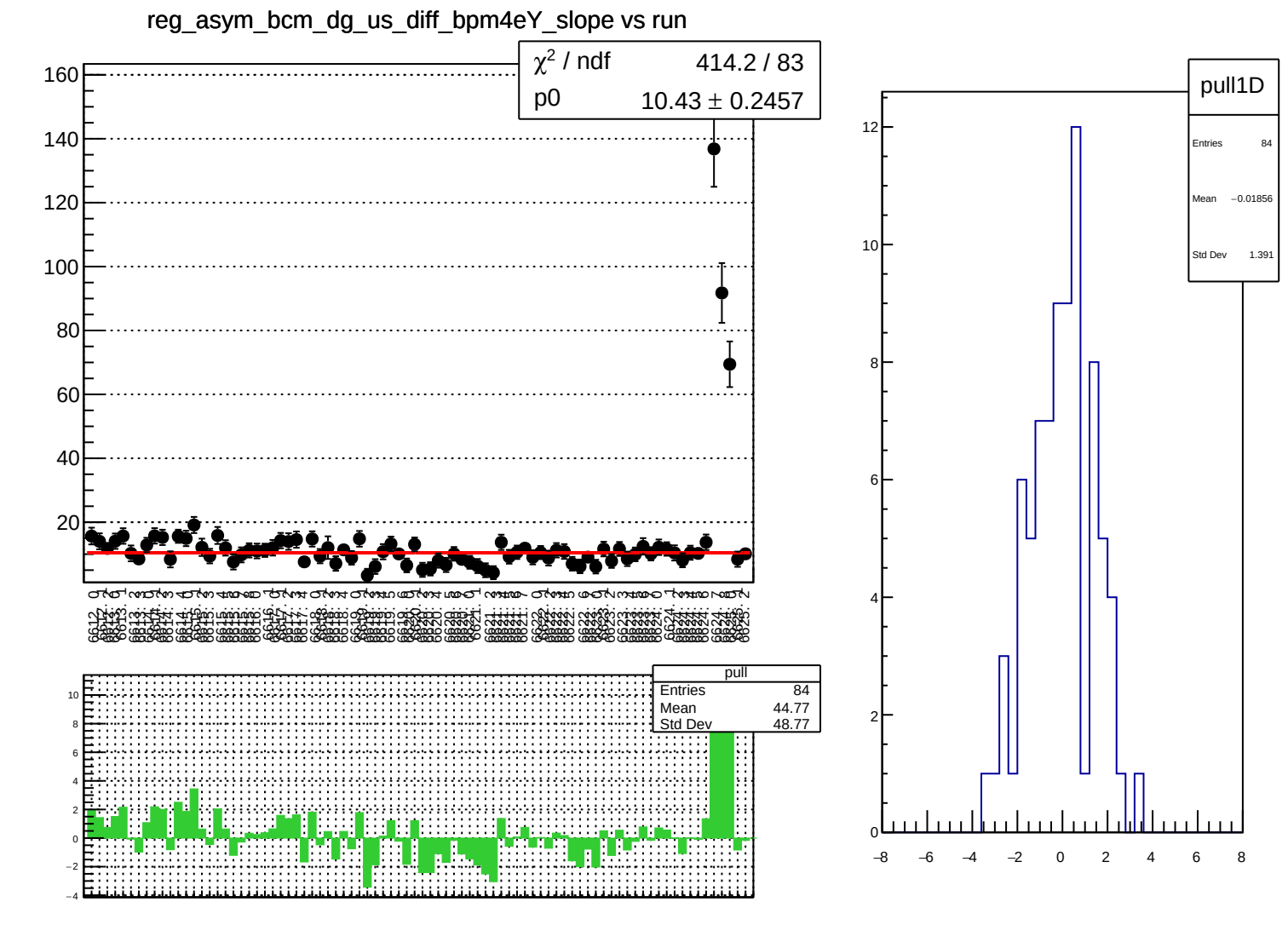

pull1D
Entries 84
Mean −0.2818
Std Dev 3.525

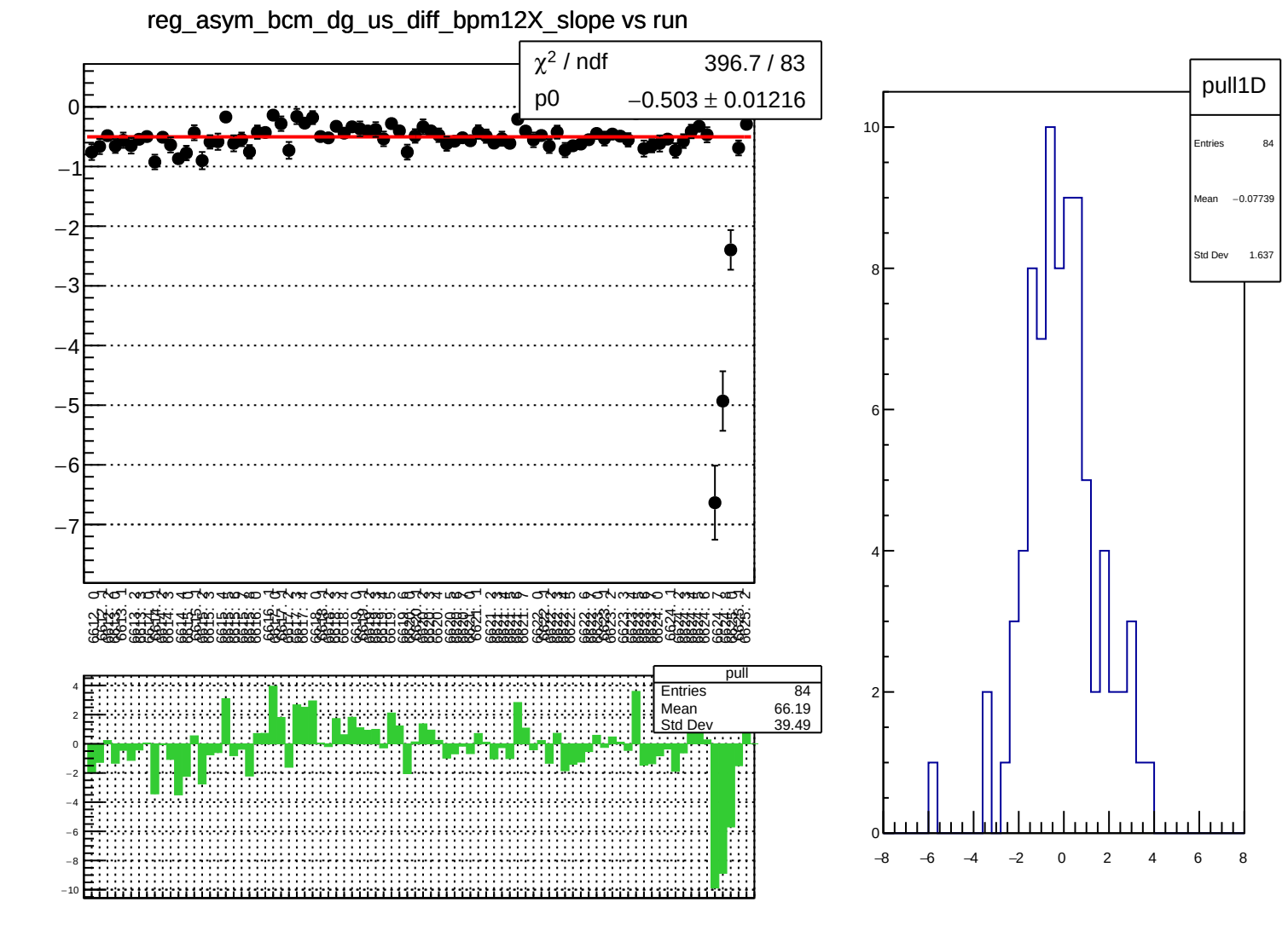

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 438.8 / 83
p0 −9.356 ± 0.2085
pull
Entries 84
Mean 53.54
Std Dev 46.82

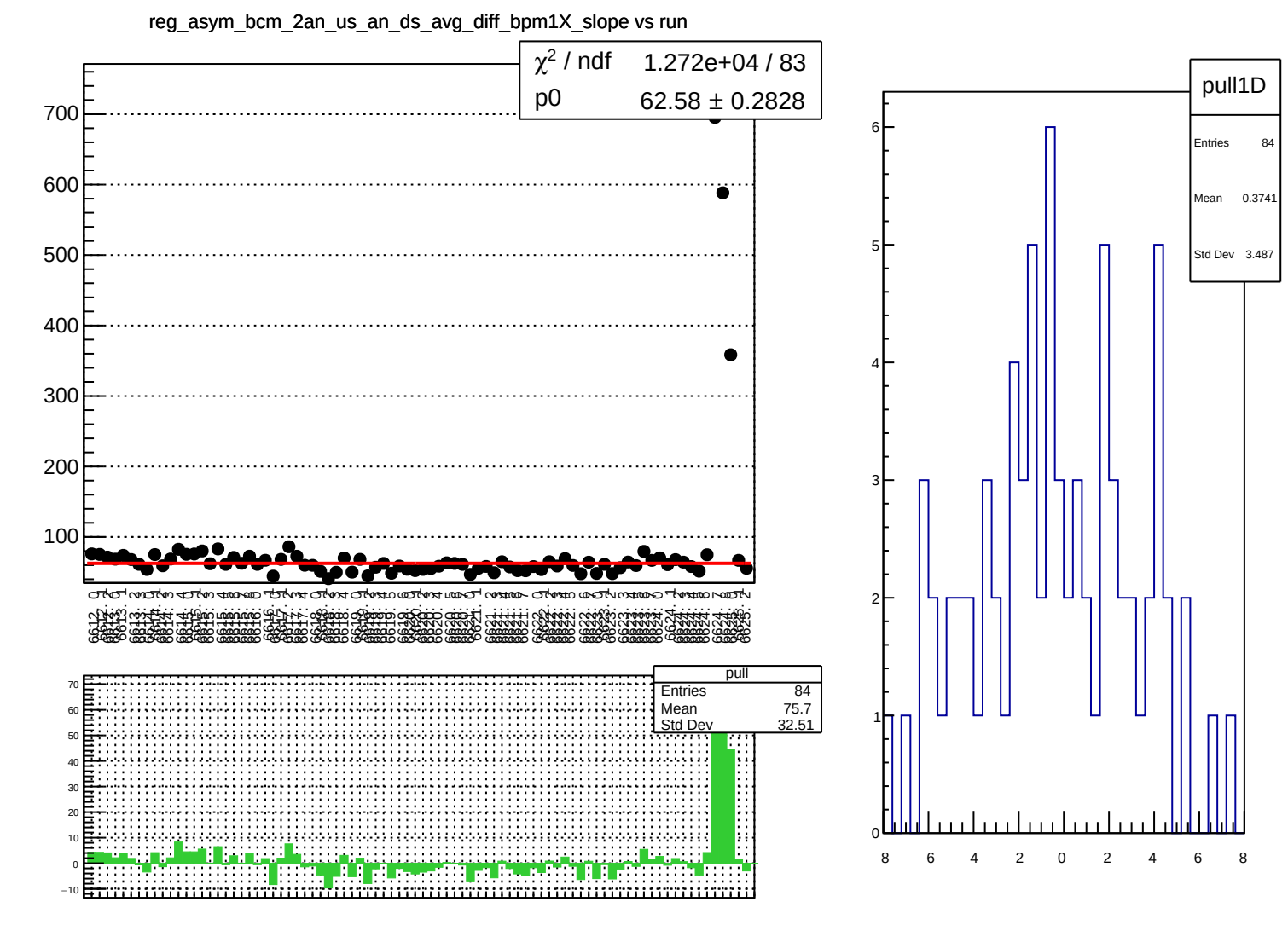

pull1D
Entries 84
Mean 0.02865
Std Dev 1.33

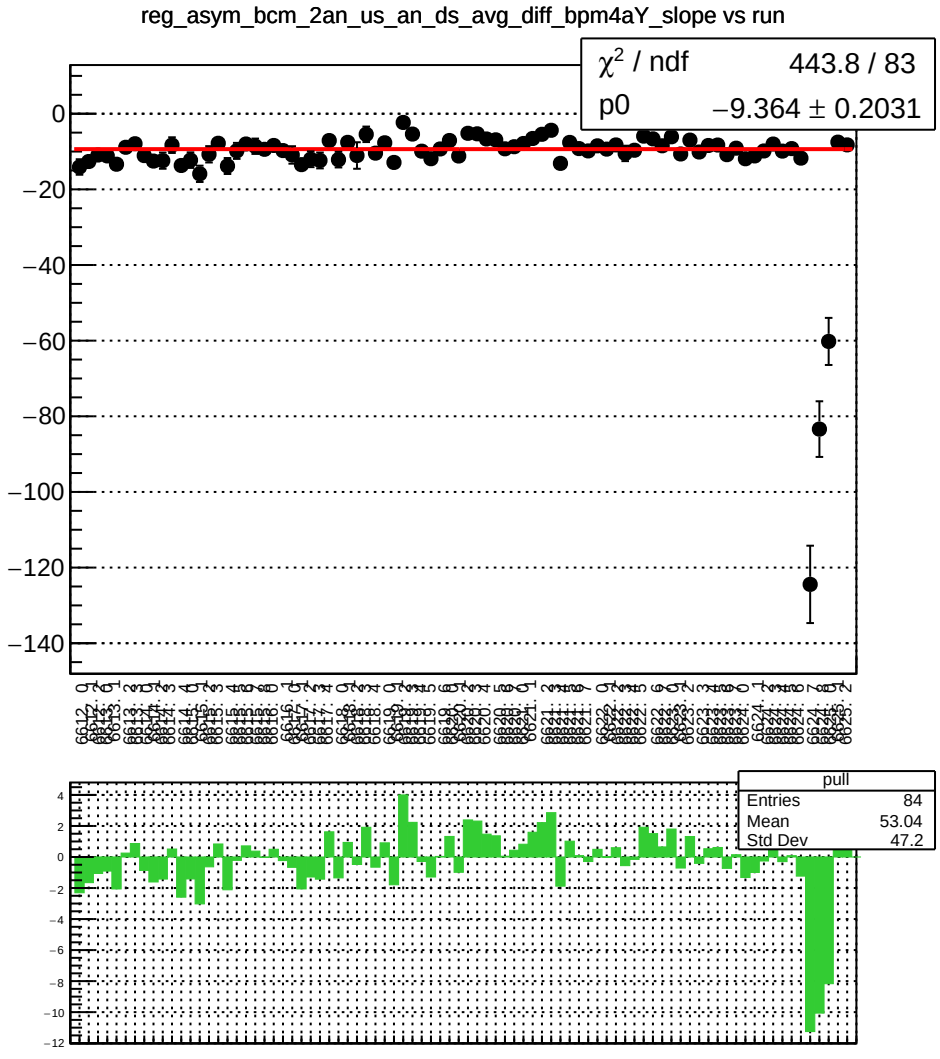

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 1.215e+04 / 83
p0 −64.01 ± 0.2986
pull
Entries 84
Mean 75.54
Std Dev 32.99

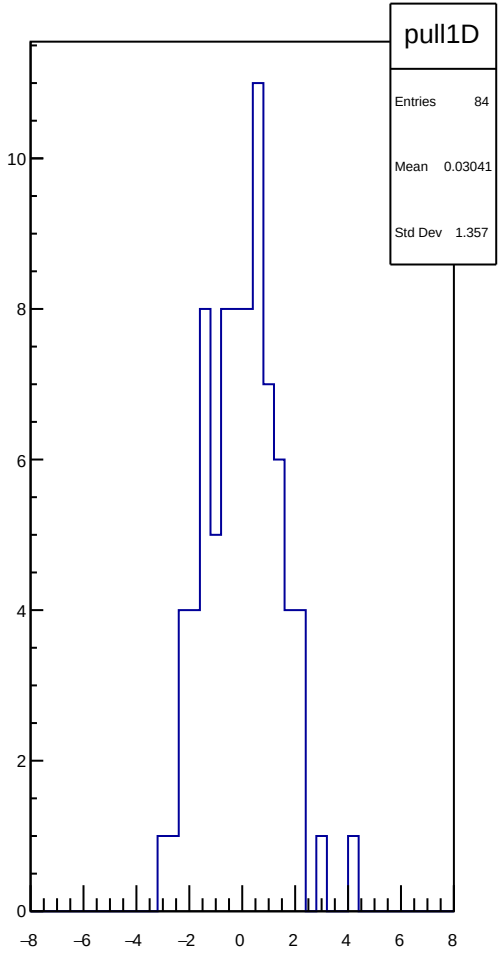

pull1D
Entries 84
Mean 0.3861
Std Dev 3.509

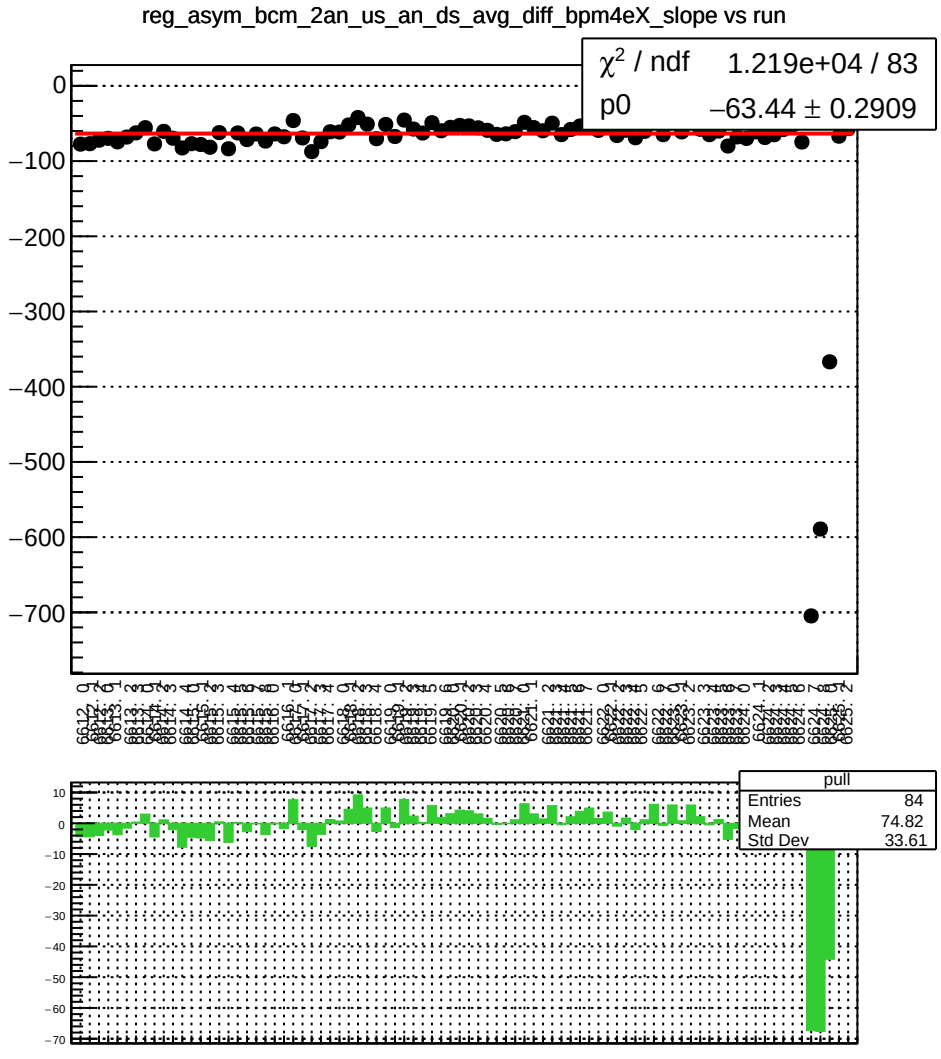

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 414.2 / 83
p0 10.43 ± 0.2457
pull
Entries 84
Mean 44.77
Std Dev 48.77
pull1D
Entries 84
Mean −0.01856
Std Dev 1.391

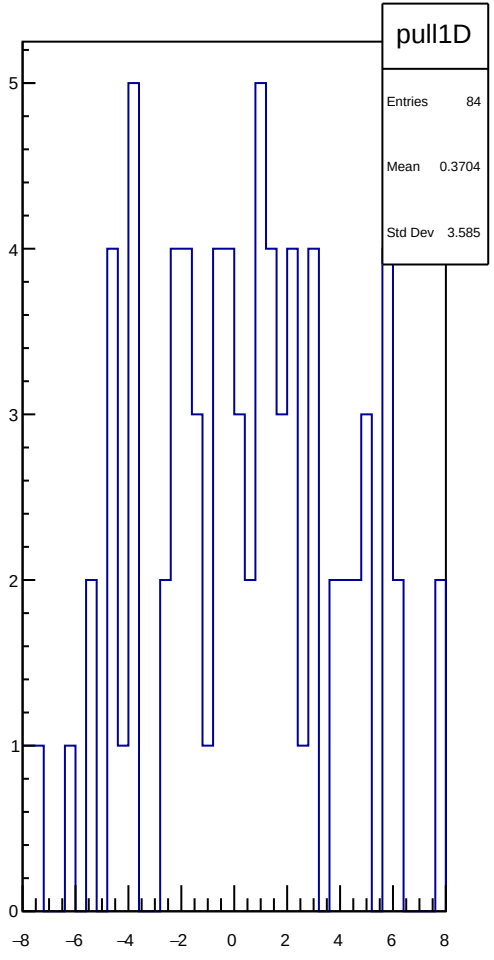

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 396.7 / 83
p0 −0.503 ± 0.01216
pull
Entries 84
Mean 66.19
Std Dev 39.49
pull1D
Entries 84
Mean −0.07739
Std Dev 1.637

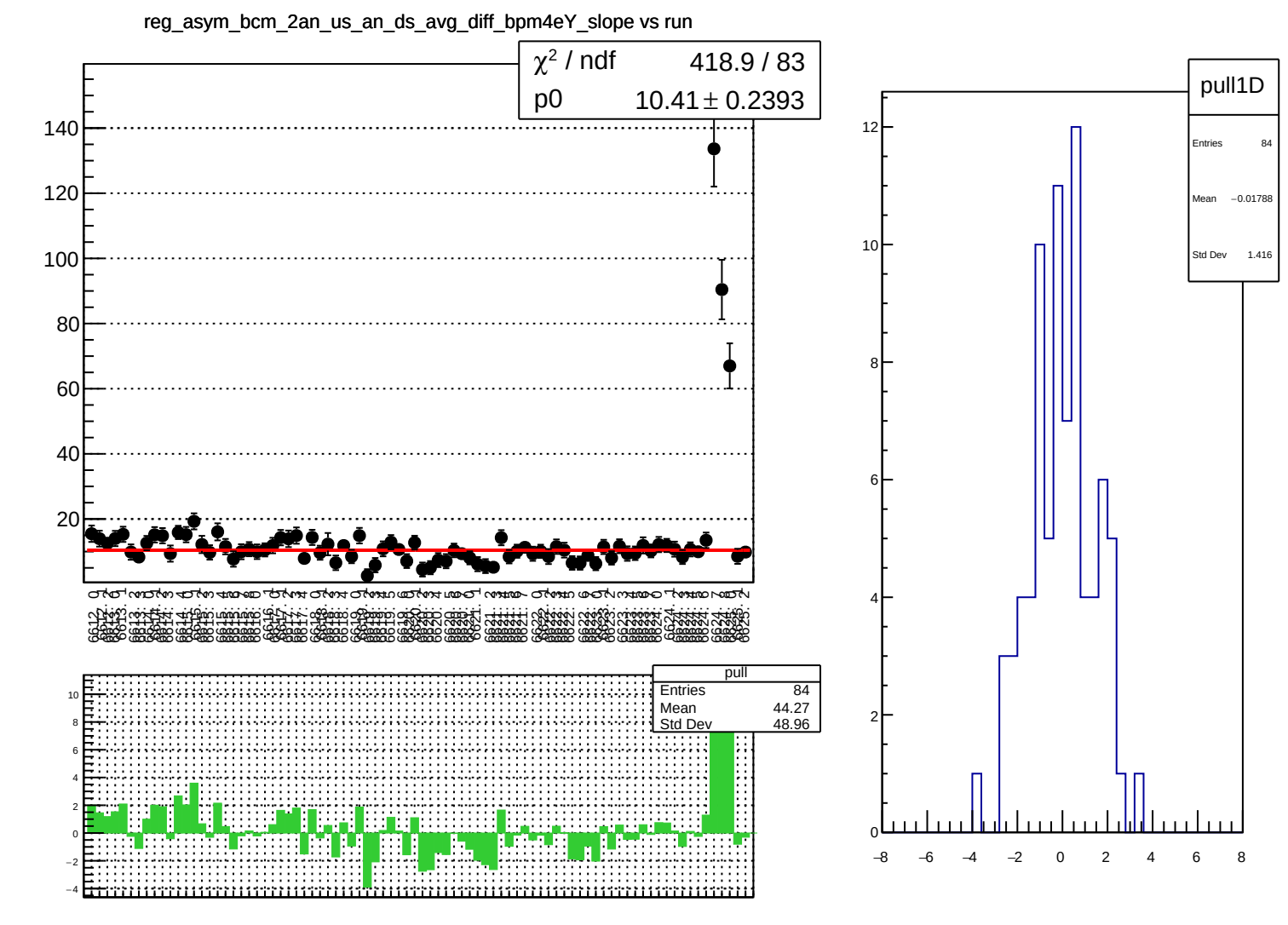

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 1.272e+04 / 83
p0 62.58 ± 0.2828
pull
Entries 84
Mean 75.7
Std Dev 32.51
pull1D
Entries 84
Mean −0.3741
Std Dev 3.487

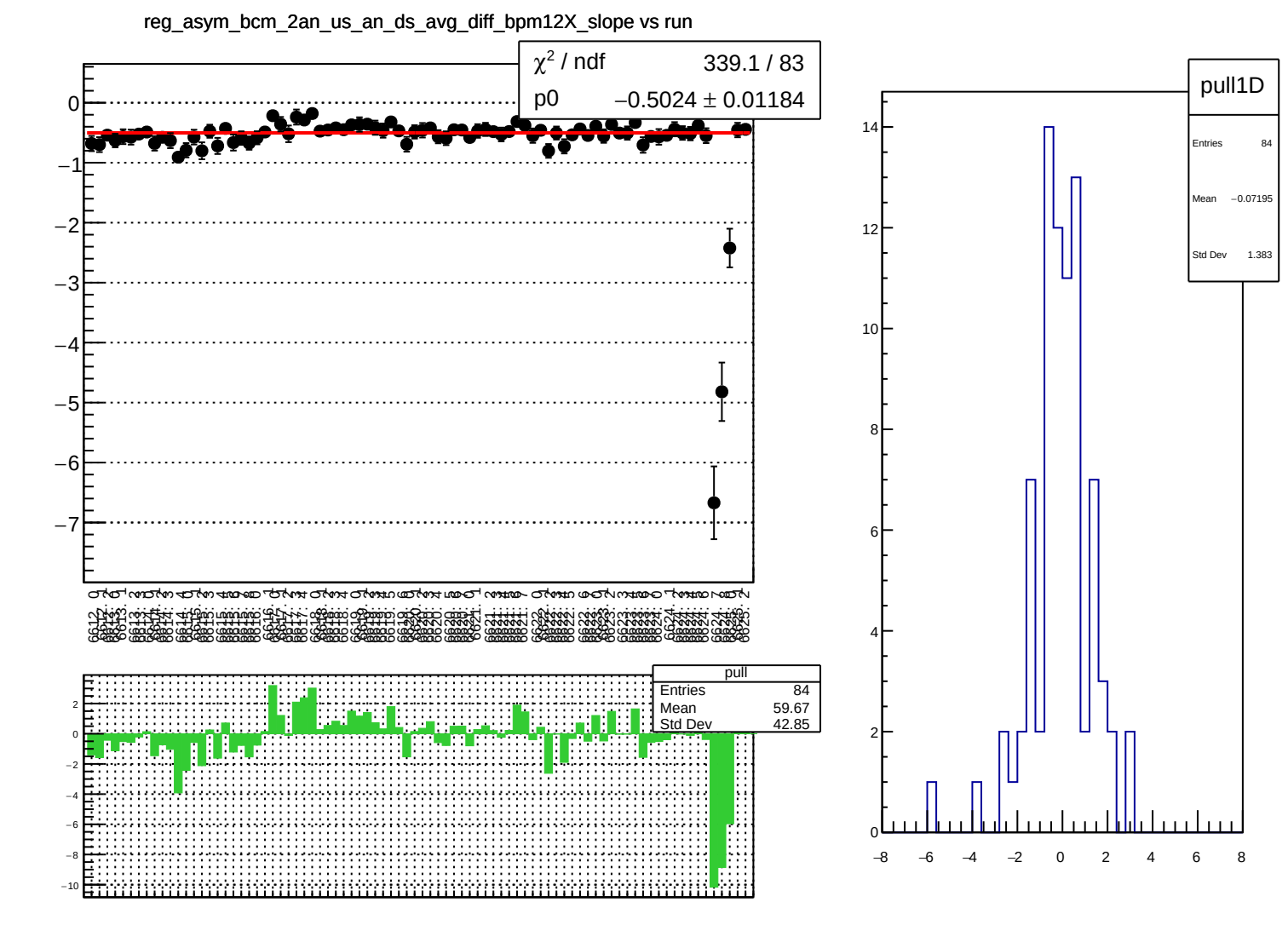

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 443.8 / 83
p0 −9.364 ± 0.2031
pull
Entries 84
Mean 53.04
Std Dev 47.2

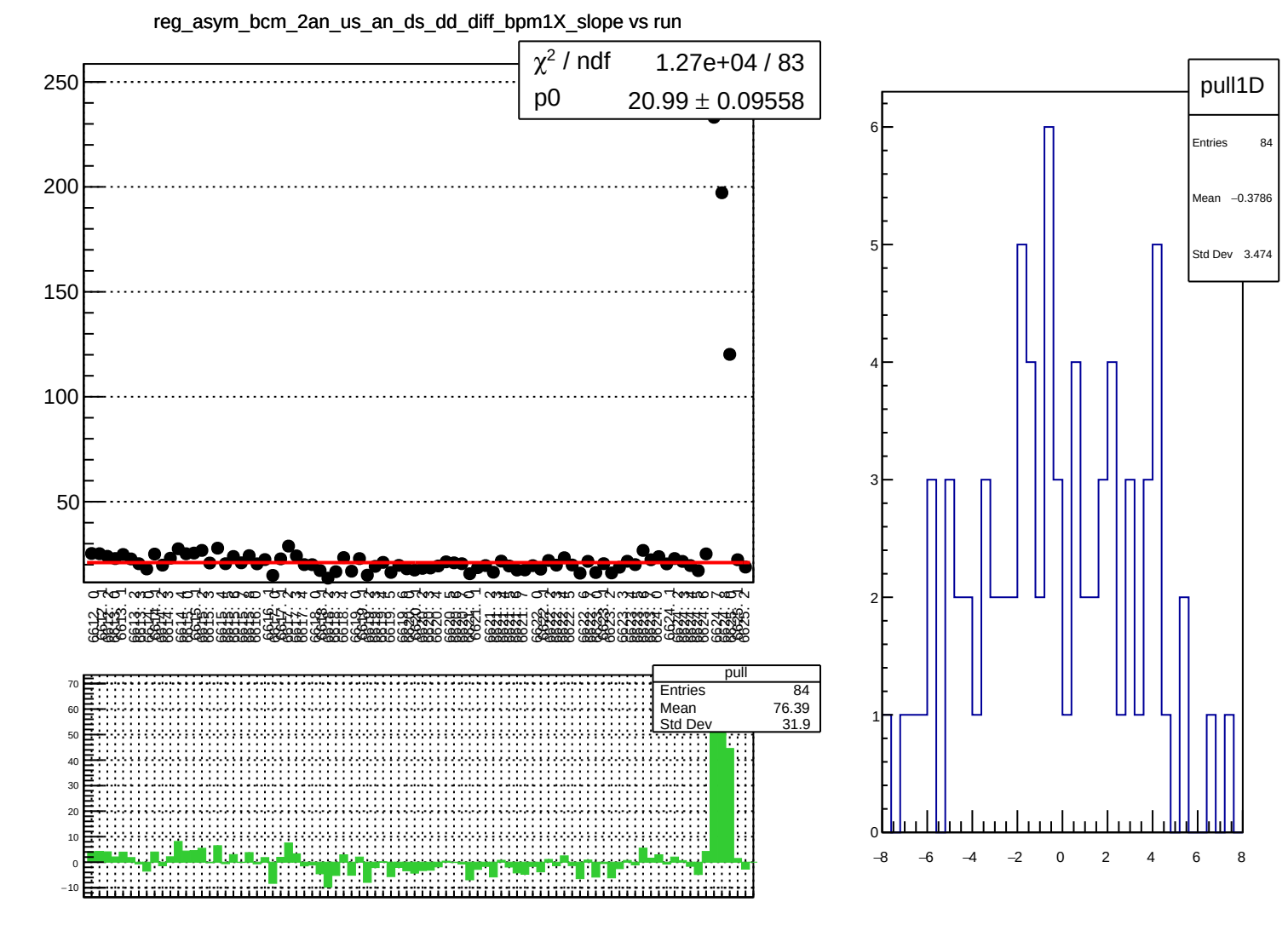

pull1D
Entries 84
Mean 0.03041
Std Dev 1.357

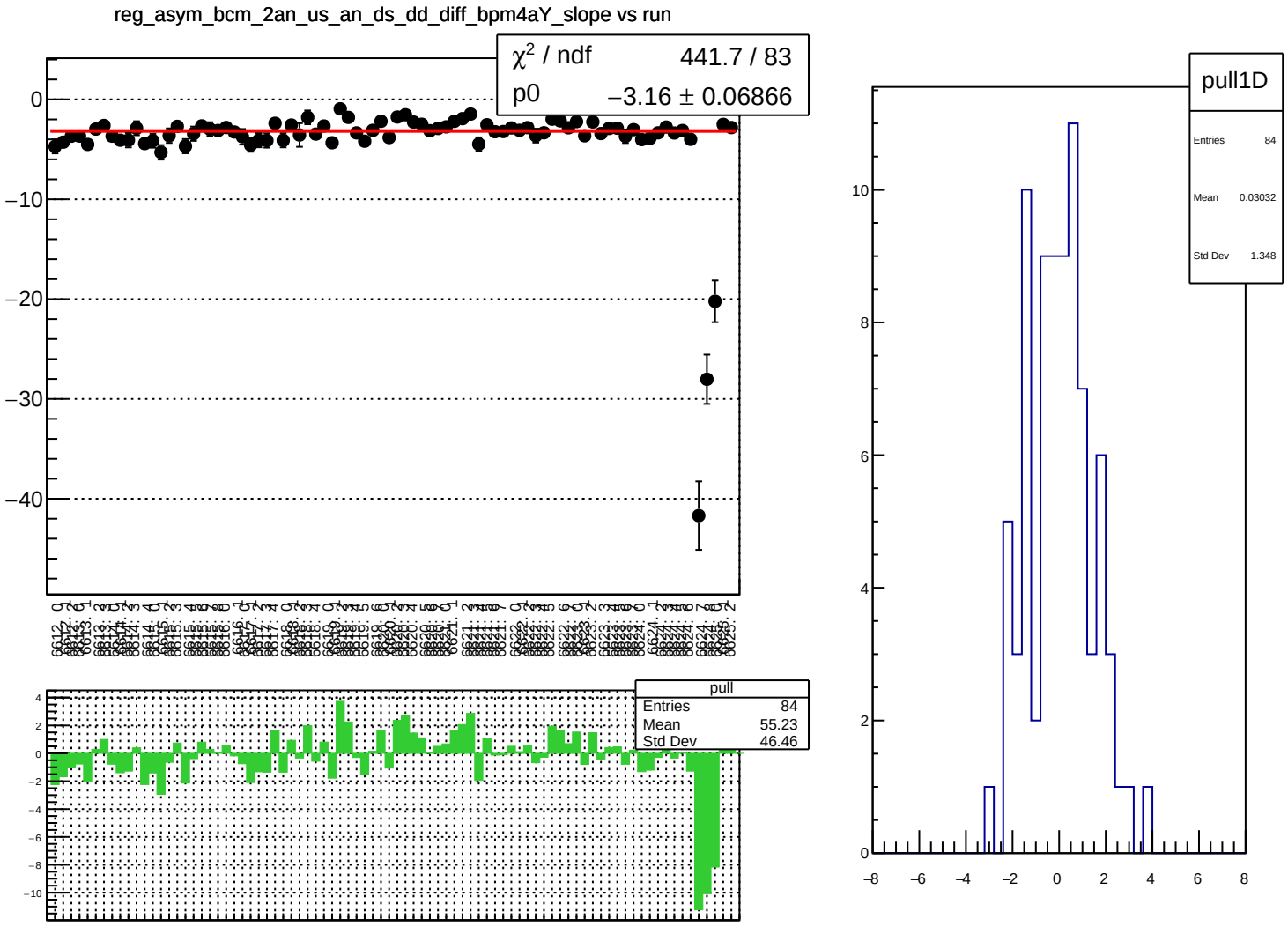

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.219e+04 / 83
p0 −63.44 ± 0.2909
pull
Entries 84
Mean 74.82
Std Dev 33.61

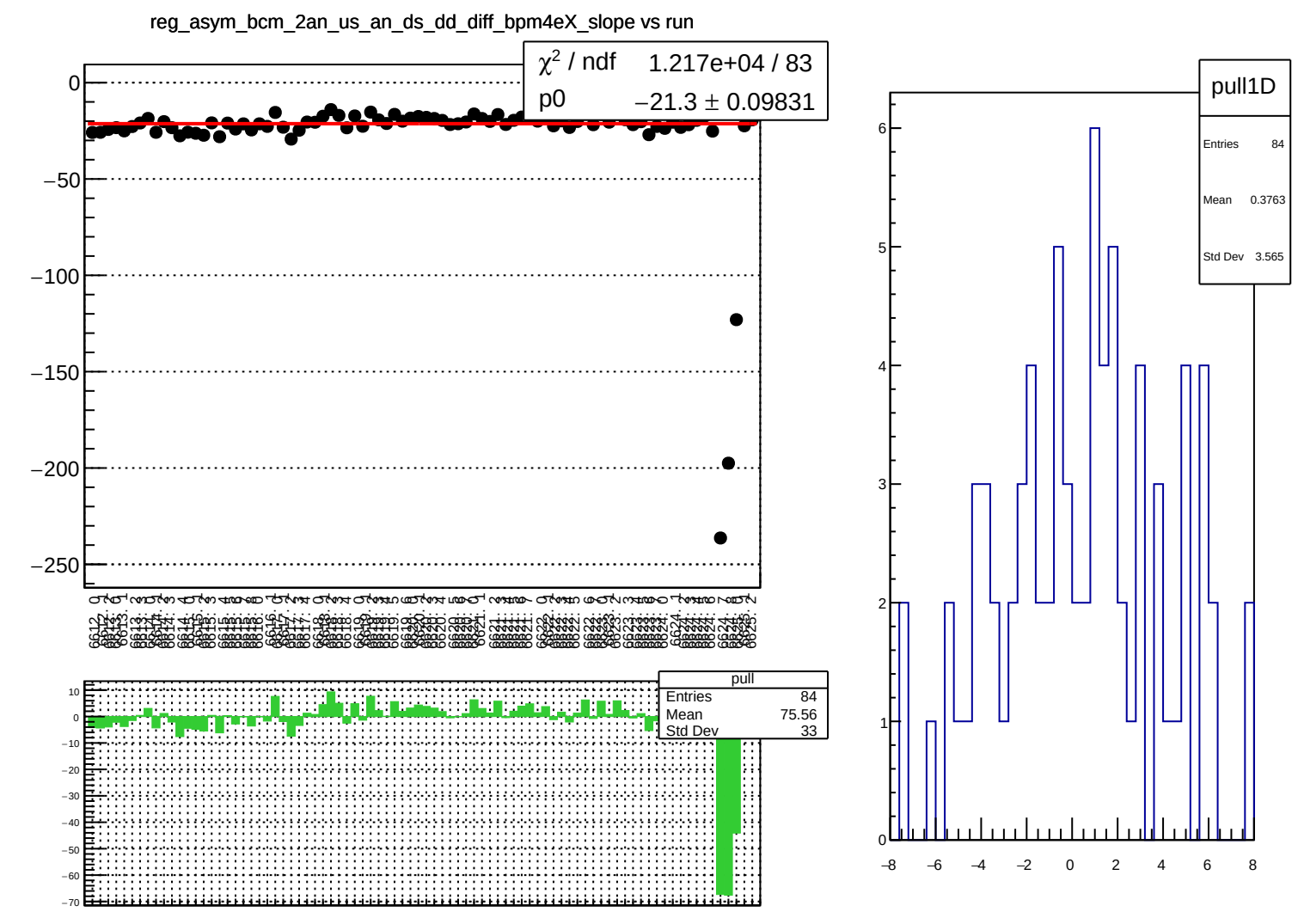

pull1D
Entries 84
Mean 0.3704
Std Dev 3.585

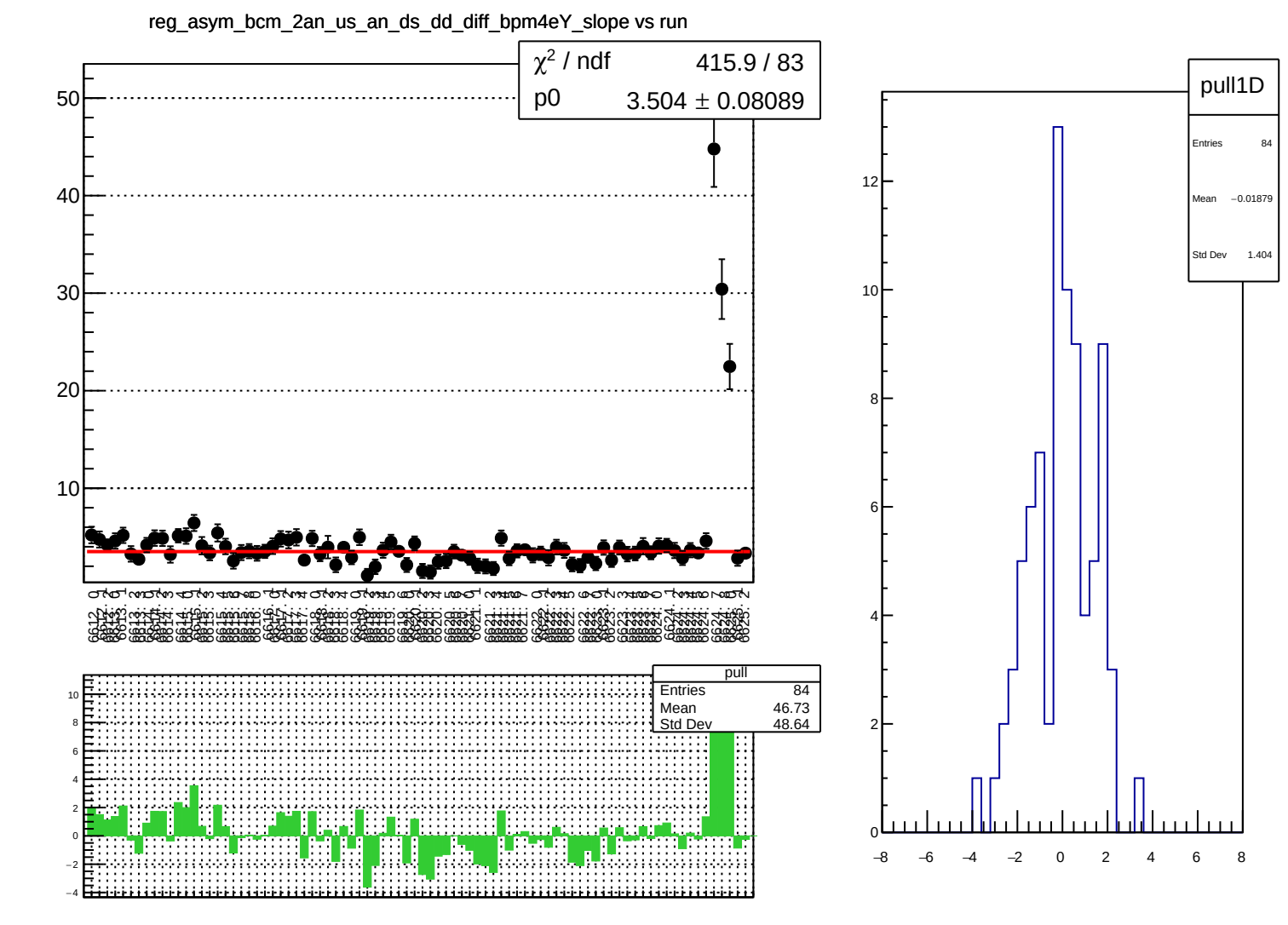

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 418.9 / 83
p0 10.41 ± 0.2393
pull
Entries 84
Mean 44.27
Std Dev 48.96
pull1D
Entries 84
Mean −0.01788
Std Dev 1.416

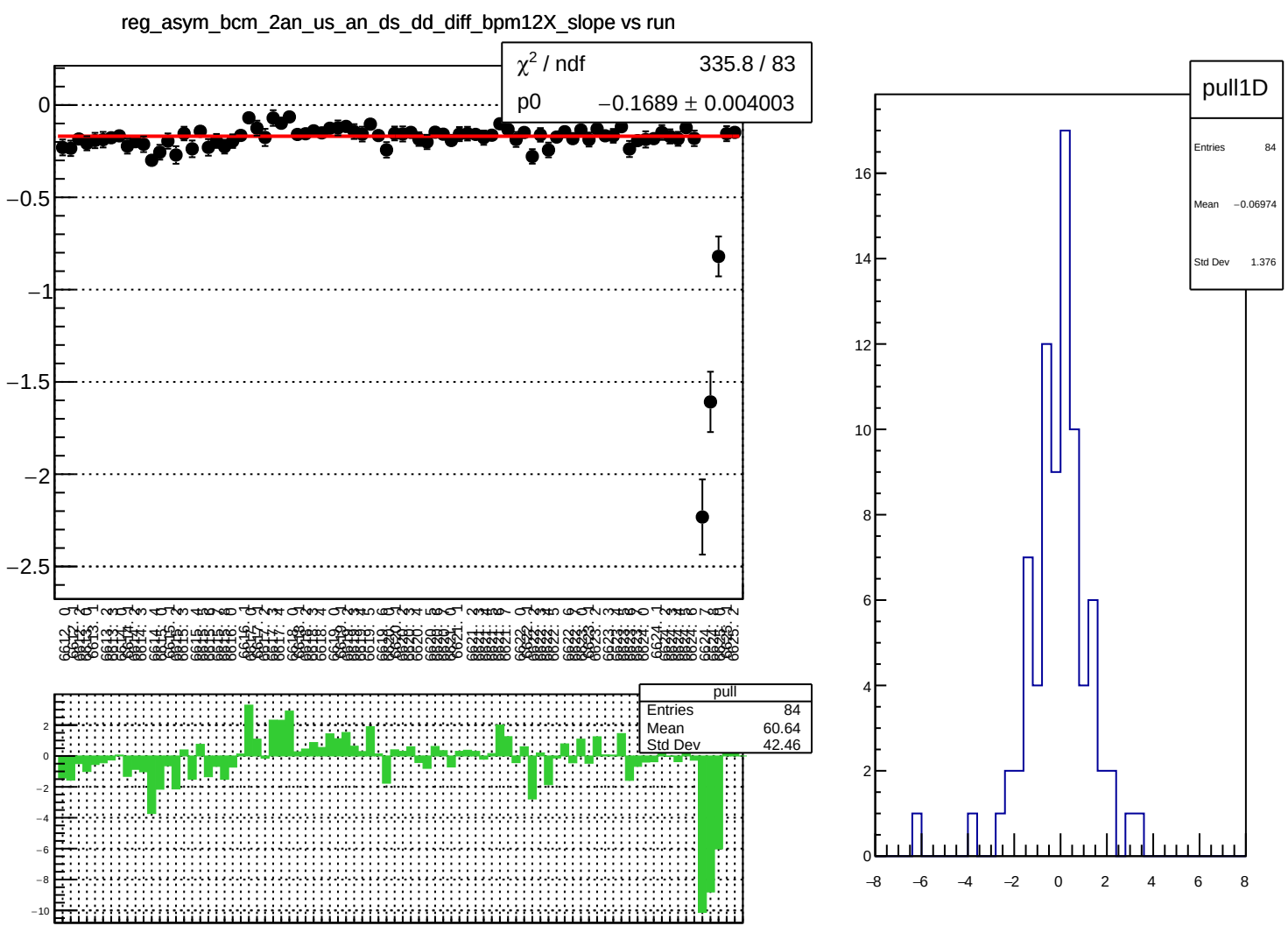

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 339.1 / 83
p0 −0.5024 ± 0.01184
pull
Entries 84
Mean 59.67
Std Dev 42.85
pull1D
Entries 84
Mean −0.07195
Std Dev 1.383

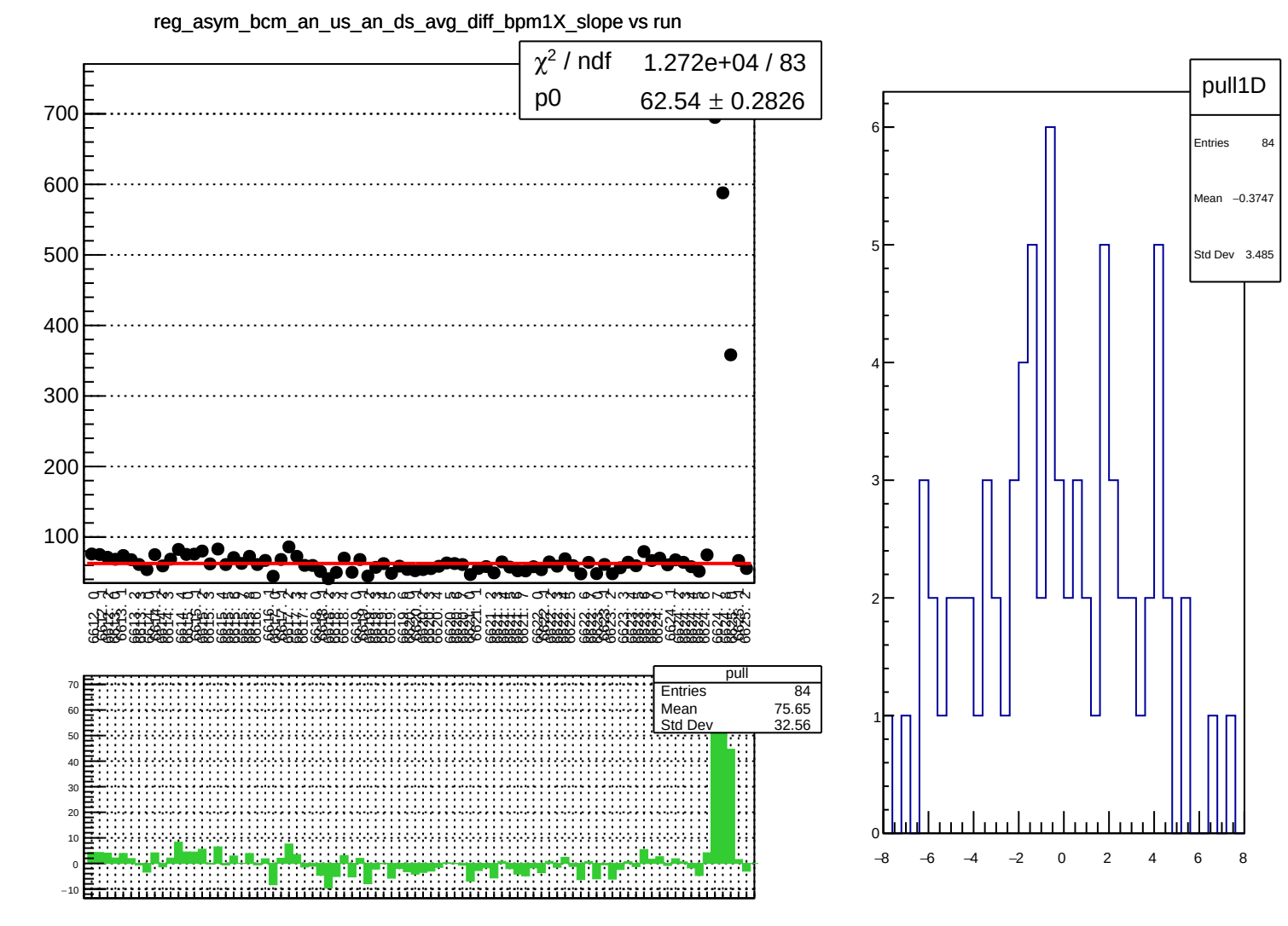

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 1.27e+04 / 83
p0 20.99 ± 0.09558
250
200
150
100
50
pull
Entries 84
Mean 76.39
Std Dev 31.9
70
60
50
40
30
20
10
0
−10
pull1D
Entries 84
Mean −0.3786
Std Dev 3.474
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

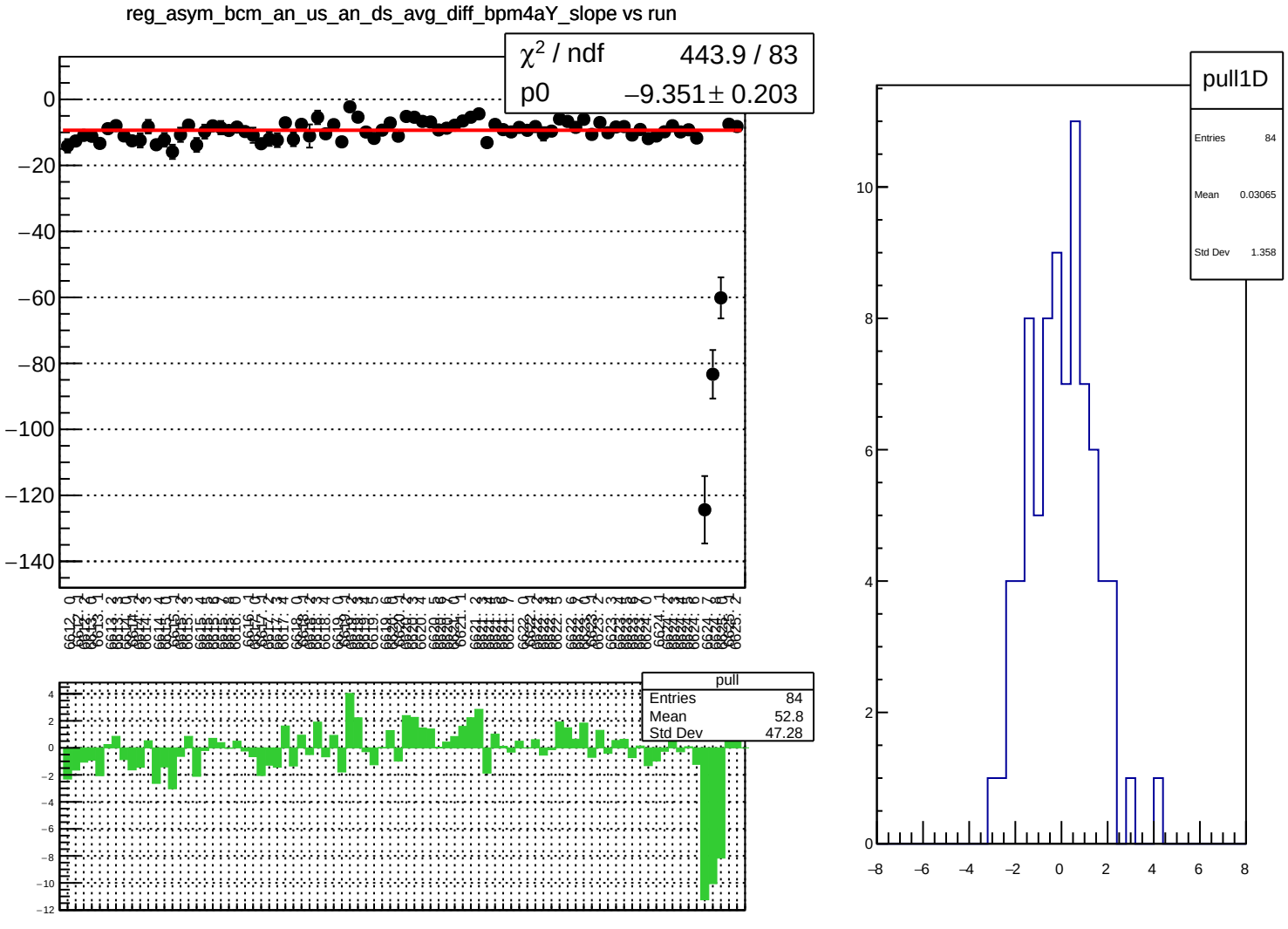

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 441.7 / 83
p0 −3.16 ± 0.06866
pull
Entries 84
Mean 55.23
Std Dev 46.46
pull1D
Entries 84
Mean 0.03032
Std Dev 1.348

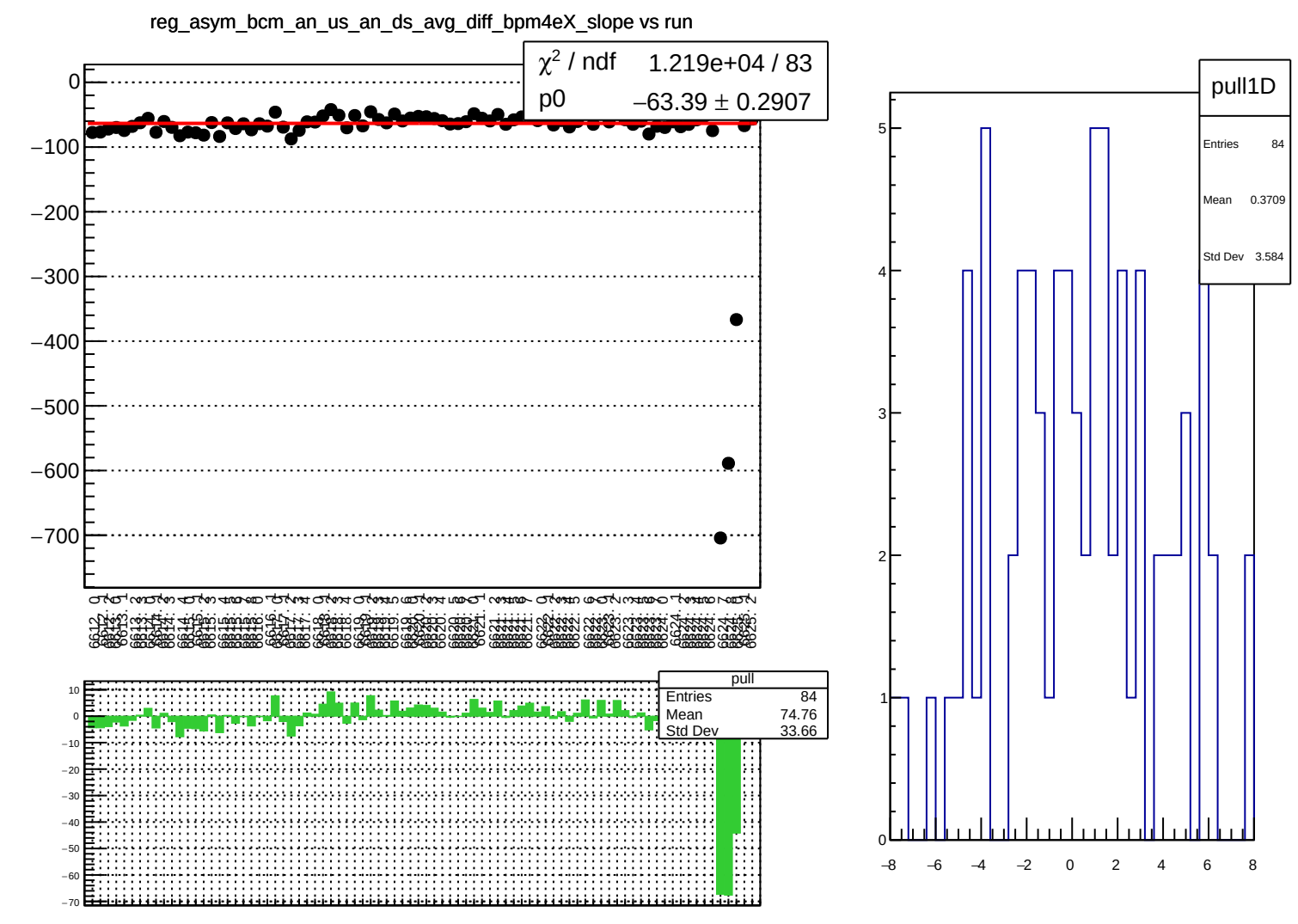

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.217e+04 / 83
p0 −21.3 ± 0.09831
pull
Entries 84
Mean 75.56
Std Dev 33
pull1D
Entries 84
Mean 0.3763
Std Dev 3.565

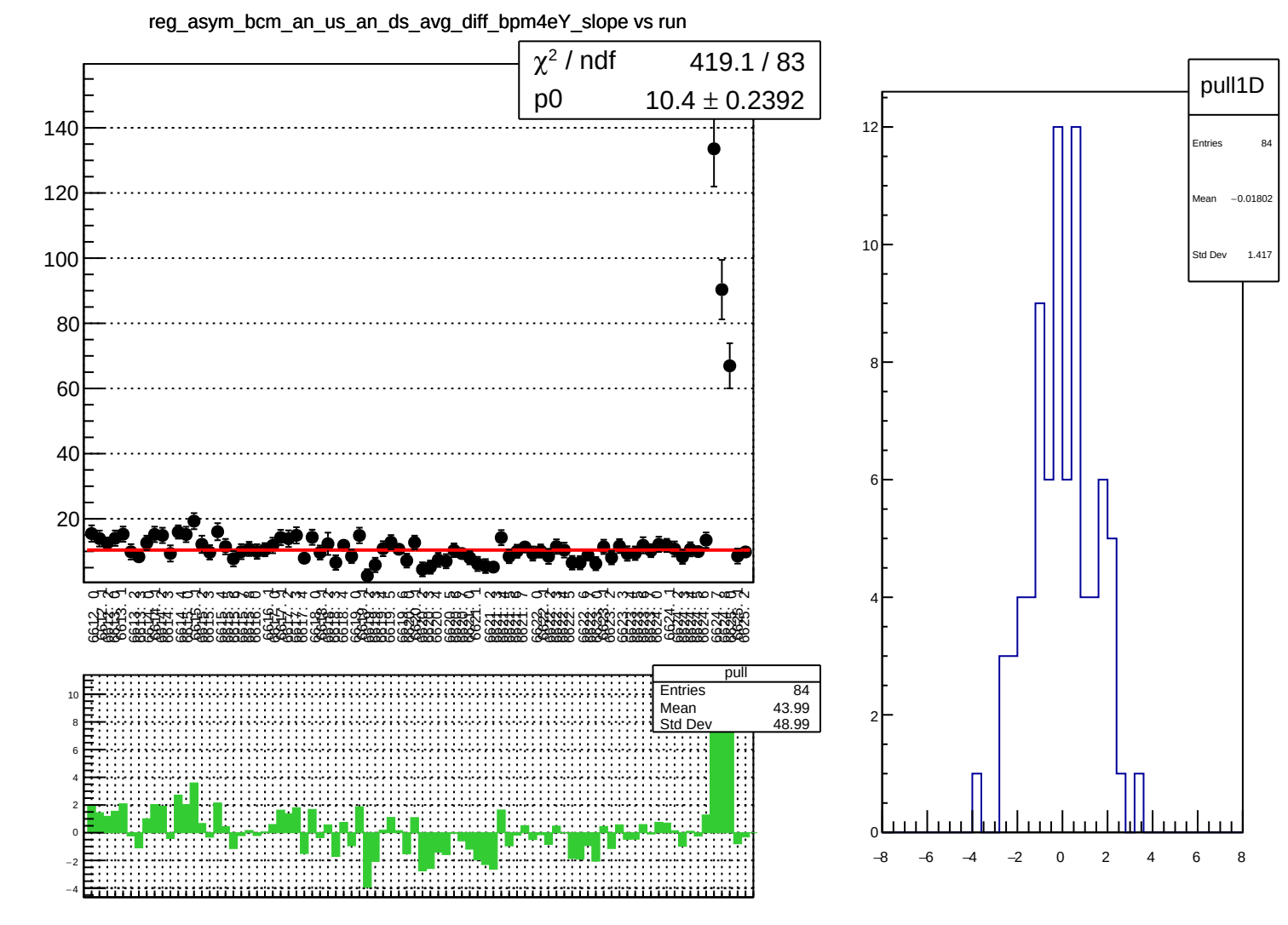

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 415.9 / 83
p0 3.504 ± 0.08089
pull
Entries 84
Mean 46.73
Std Dev 48.64
pull1D
Entries 84
Mean −0.01879
Std Dev 1.404

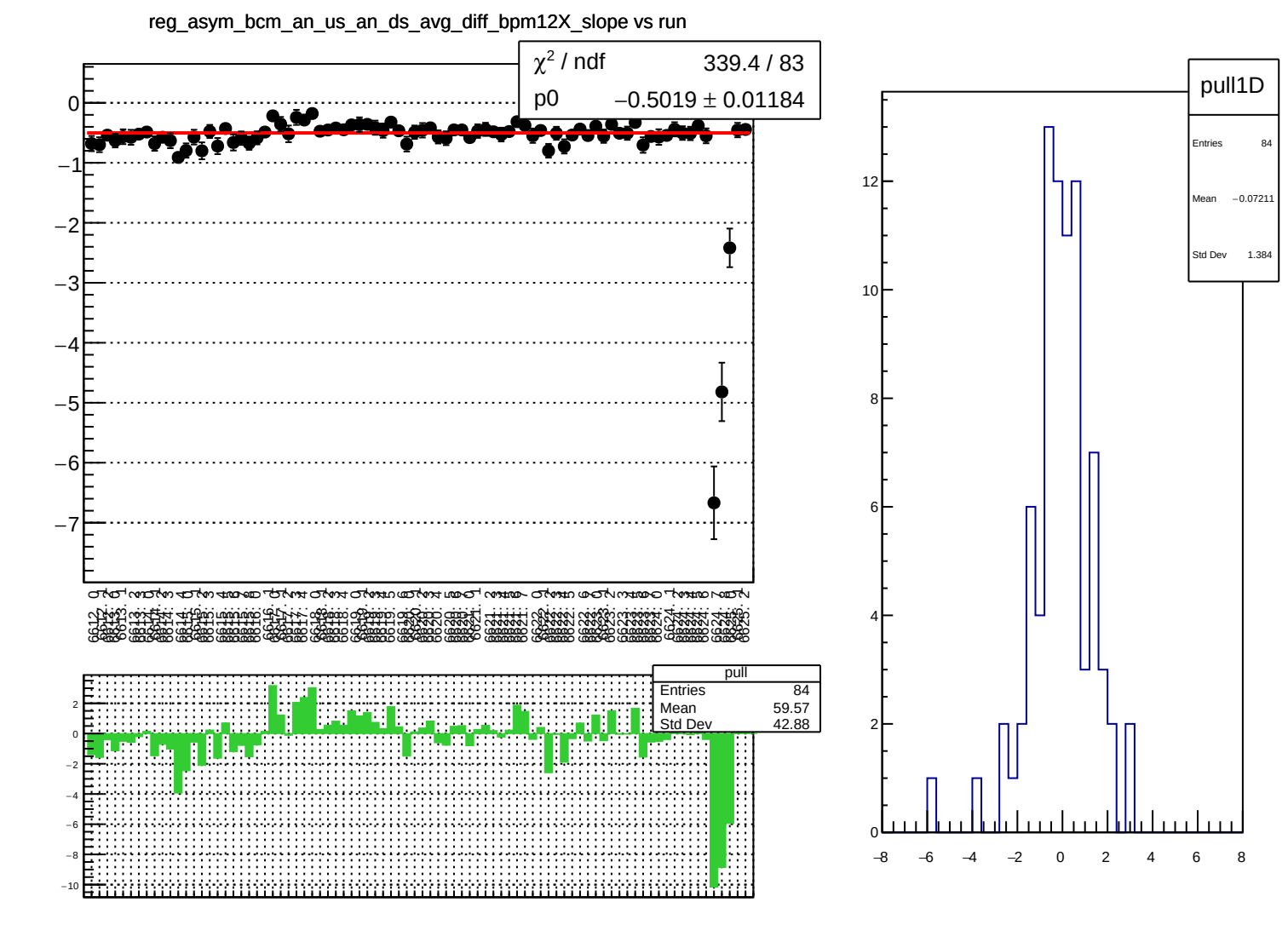

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 335.8 / 83
p0 −0.1689 ± 0.004003
pull
Entries 84
Mean 60.64
Std Dev 42.46
pull1D
Entries 84
Mean −0.06974
Std Dev 1.376

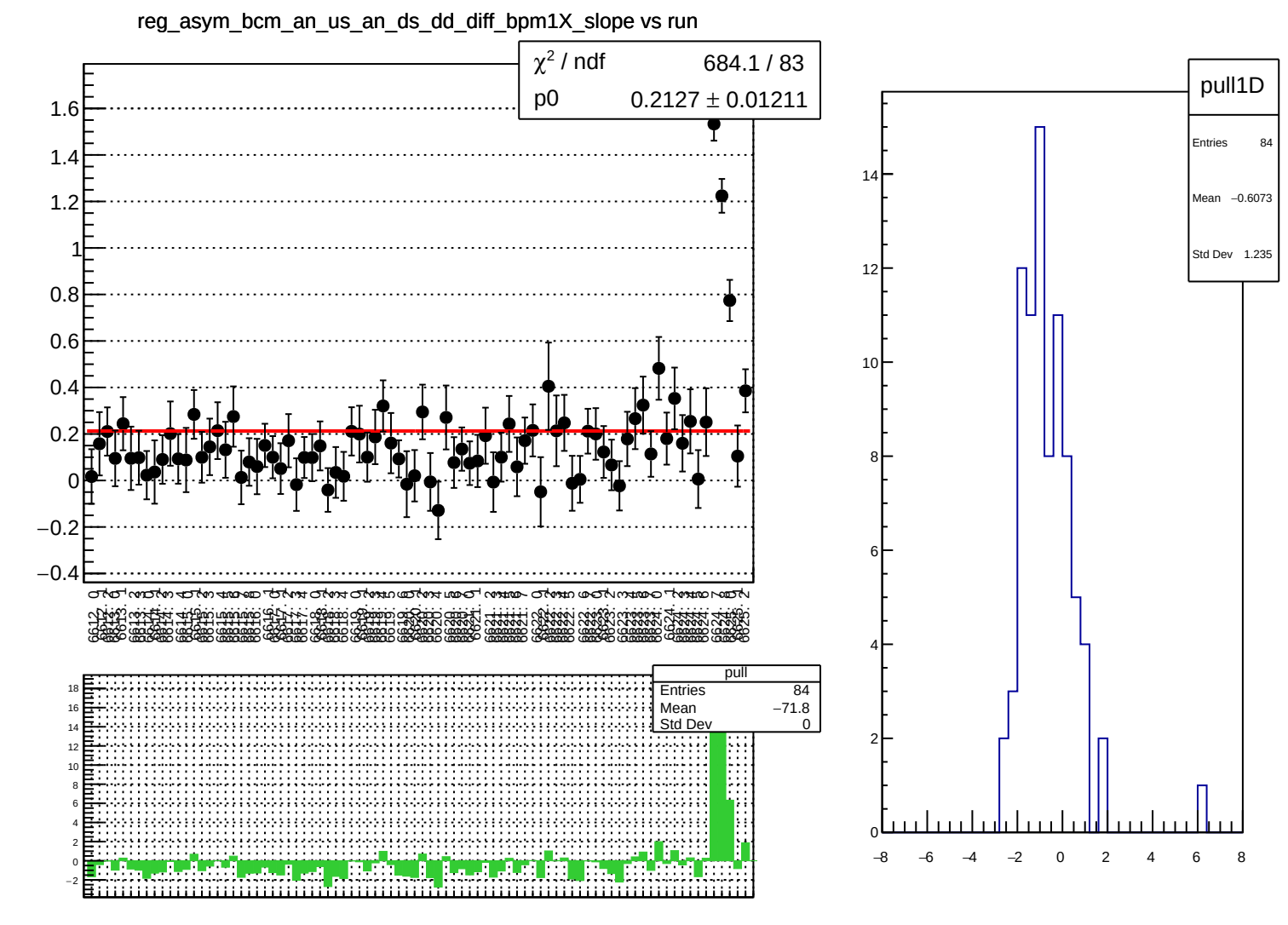

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 1.272e+04 / 83
p0 62.54 ± 0.2826
700
600
500
400
300
200
100
pull
Entries 84
Mean 75.65
Std Dev 32.56
70
60
50
40
30
20
10
0
−10
pull1D
Entries 84
Mean −0.3747
Std Dev 3.485
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

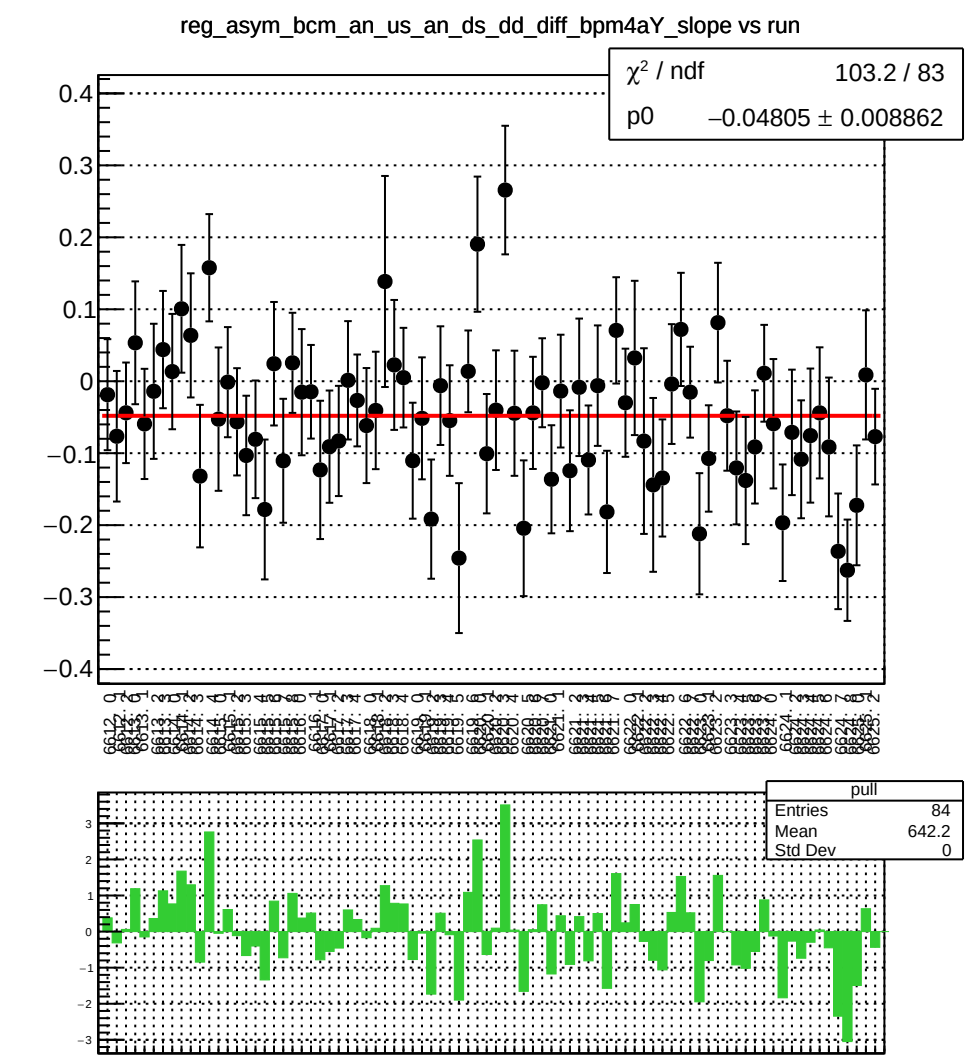

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 443.9 / 83
p0 −9.351 ± 0.203
pull
Entries 84
Mean 52.8
Std Dev 47.28
pull1D
Entries 84
Mean 0.03065
Std Dev 1.358

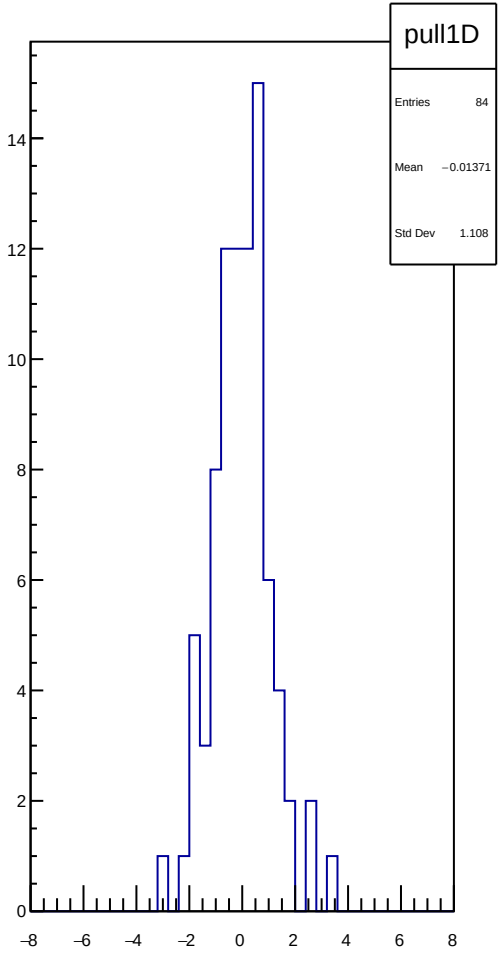

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.219e+04 / 83
p0 −63.39 ± 0.2907
pull
Entries 84
Mean 74.76
Std Dev 33.66
pull1D
Entries 84
Mean 0.3709
Std Dev 3.584

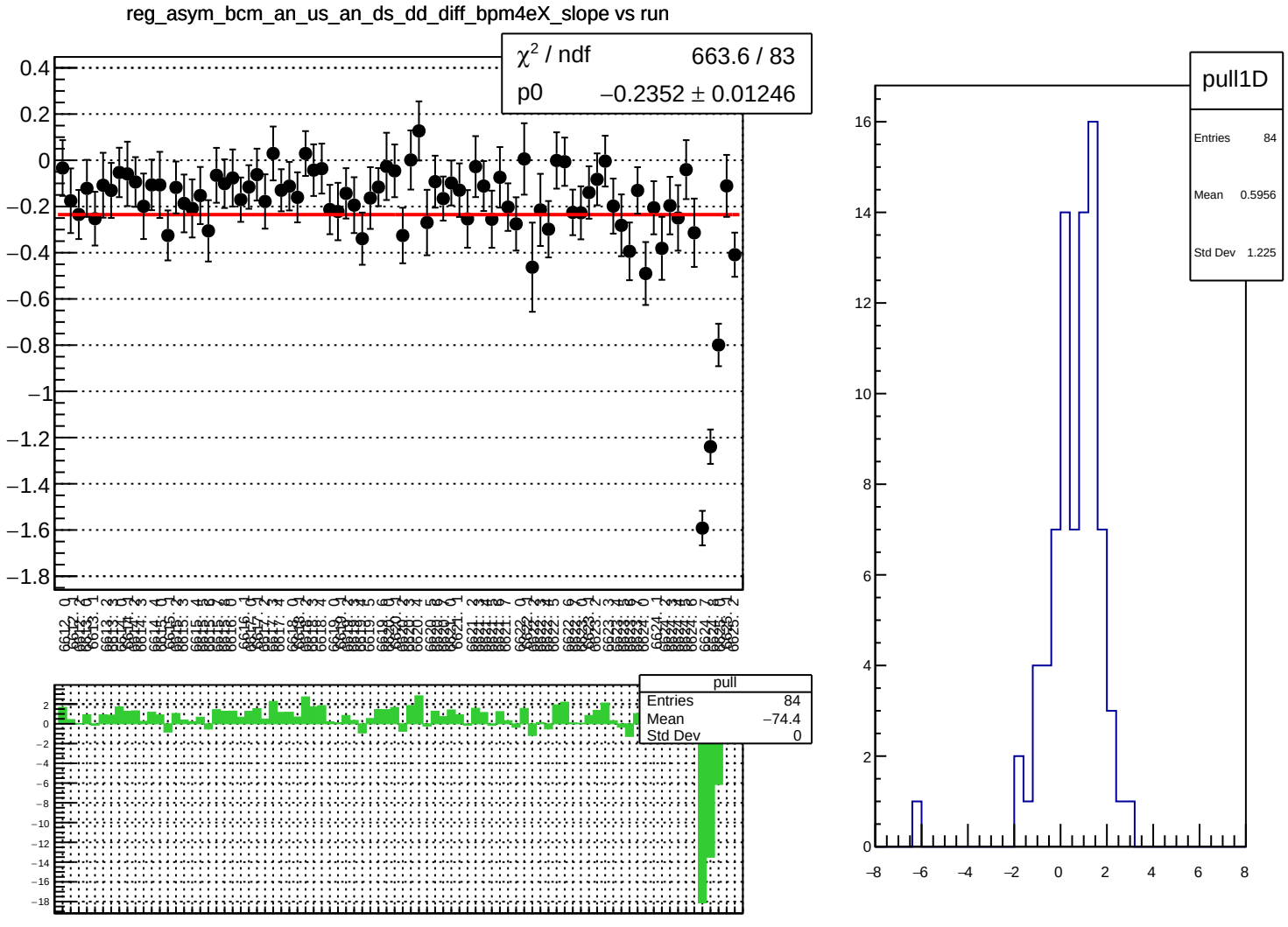

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 419.1 / 83
p0 10.4 ± 0.2392
pull
Entries 84
Mean 43.99
Std Dev 48.99
pull1D
Entries 84
Mean −0.01802
Std Dev 1.417

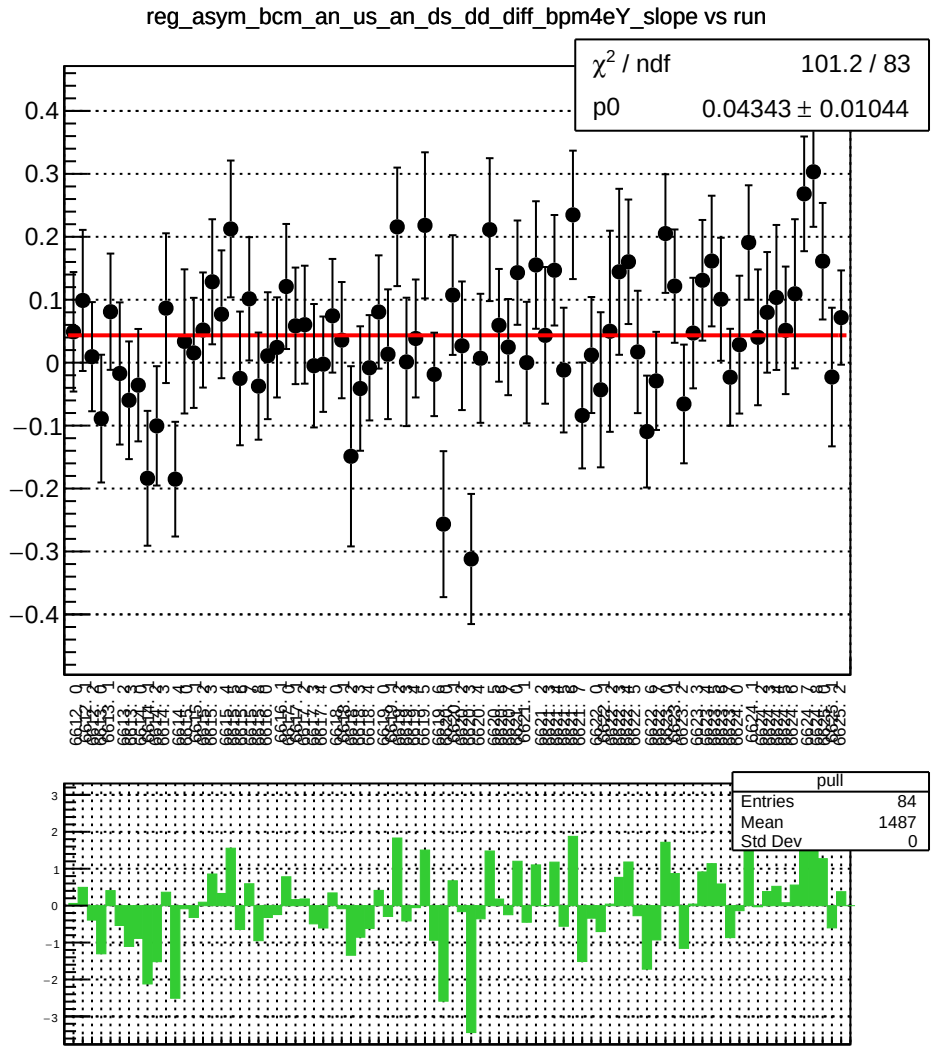

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 339.4 / 83
p0 −0.5019 ± 0.01184
pull
Entries 84
Mean 59.57
Std Dev 42.88
pull1D
Entries 84
Mean −0.07211
Std Dev 1.384

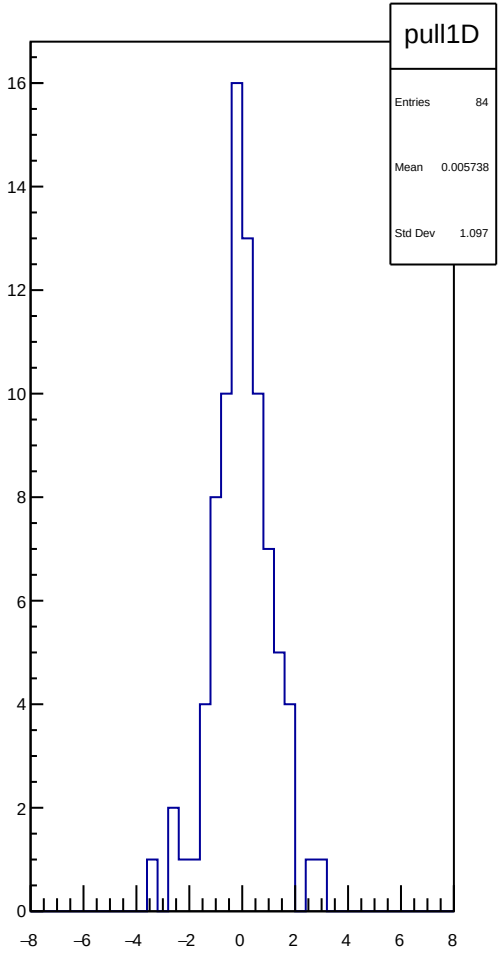

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 684.1 / 83
p0 0.2127 ± 0.01211
pull
Entries 84
Mean −71.8
Std Dev 0
pull1D
Entries 84
Mean −0.6073
Std Dev 1.235

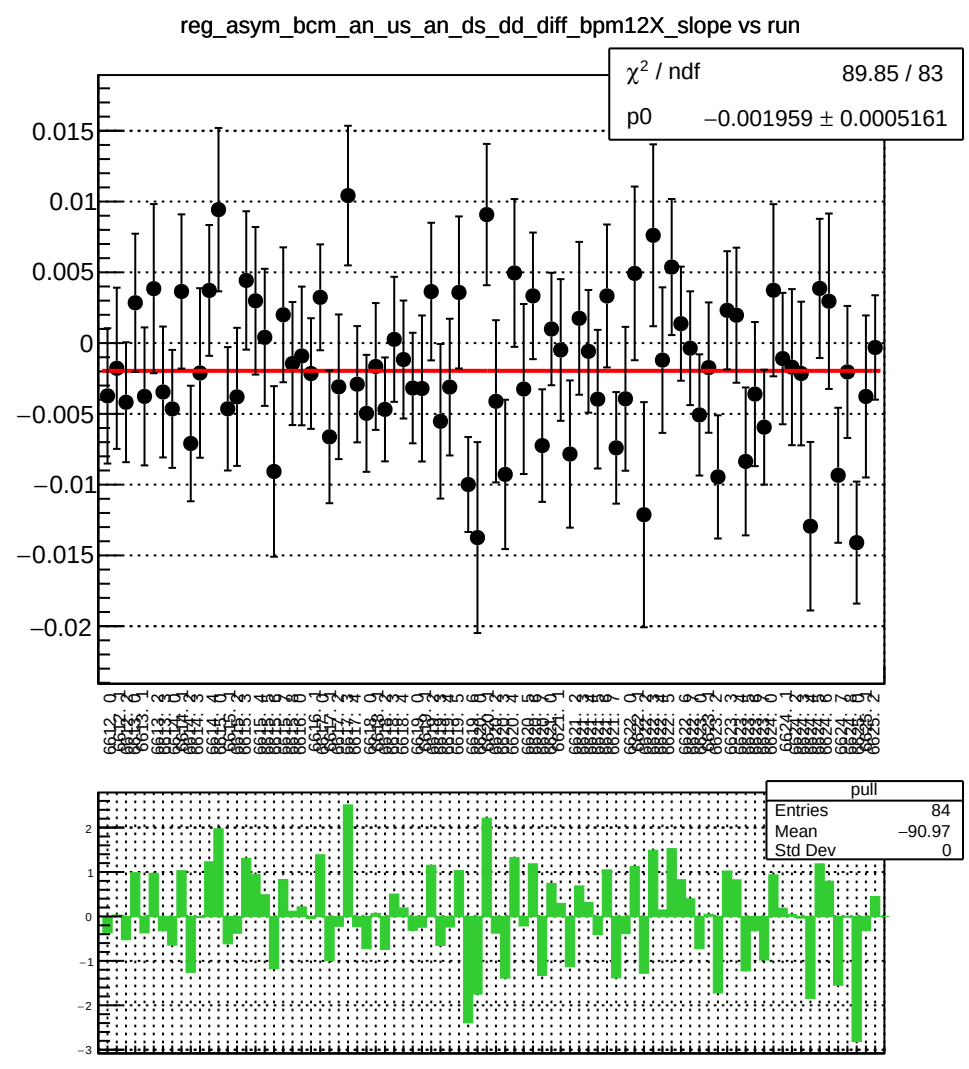

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 103.2 / 83
p0 −0.04805 ± 0.008862
pull
Entries 84
Mean 642.2
Std Dev 0

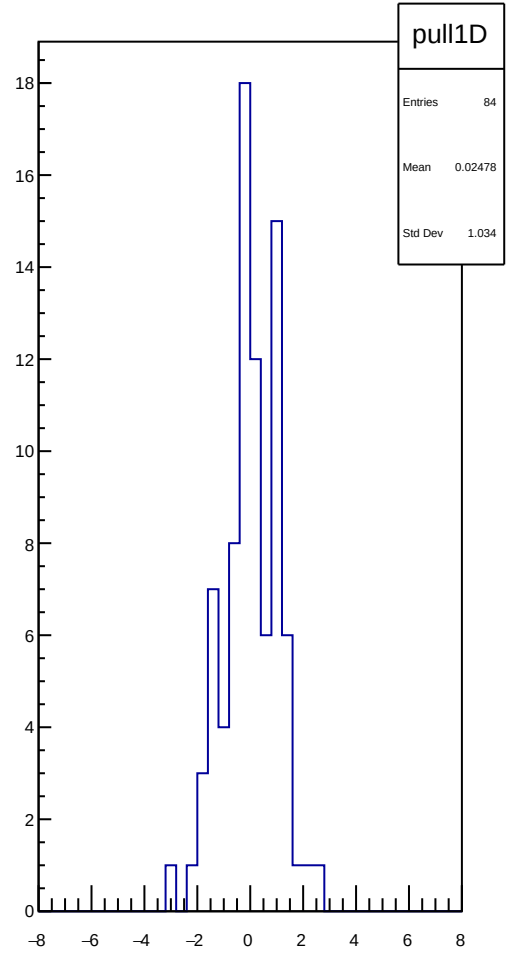

pull1D
Entries 84
Mean −0.01371
Std Dev 1.108

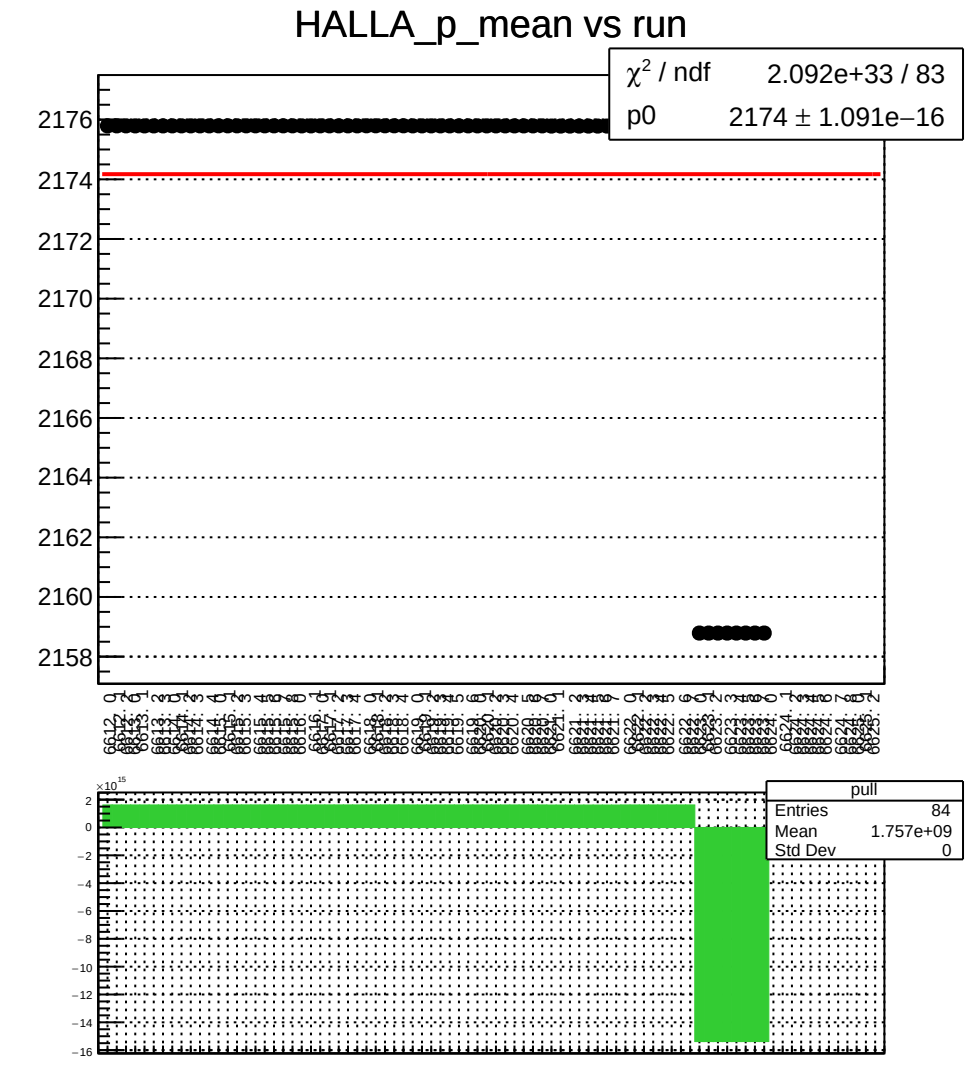

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 663.6 / 83
p0 −0.2352 ± 0.01246
pull
Entries 84
Mean −74.4
Std Dev 0
pull1D
Entries 84
Mean 0.5956
Std Dev 1.225

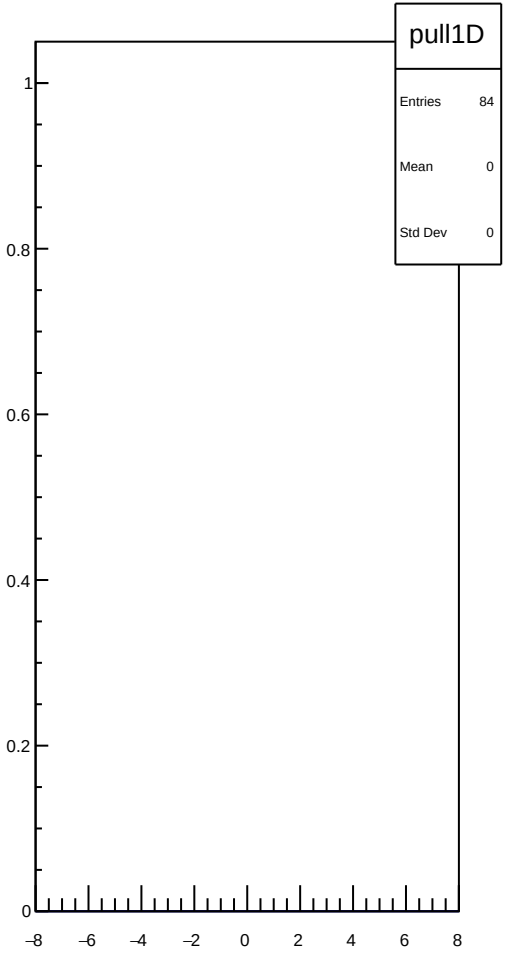

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 101.2 / 83
p0 0.04343 ± 0.01044
pull
Entries 84
Mean 1487
Std Dev 0

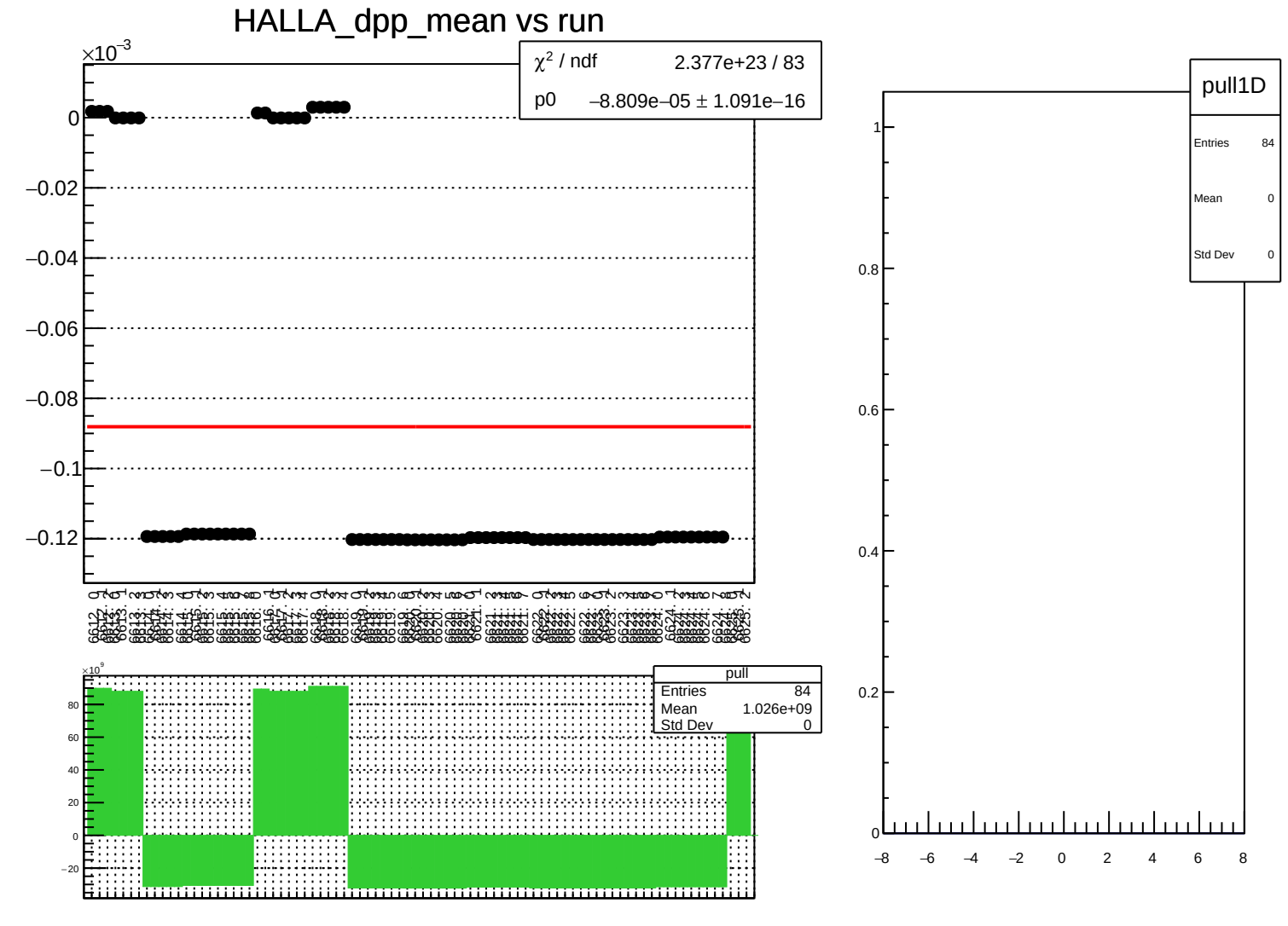

pull1D
Entries 84
Mean 0.005738
Std Dev 1.097

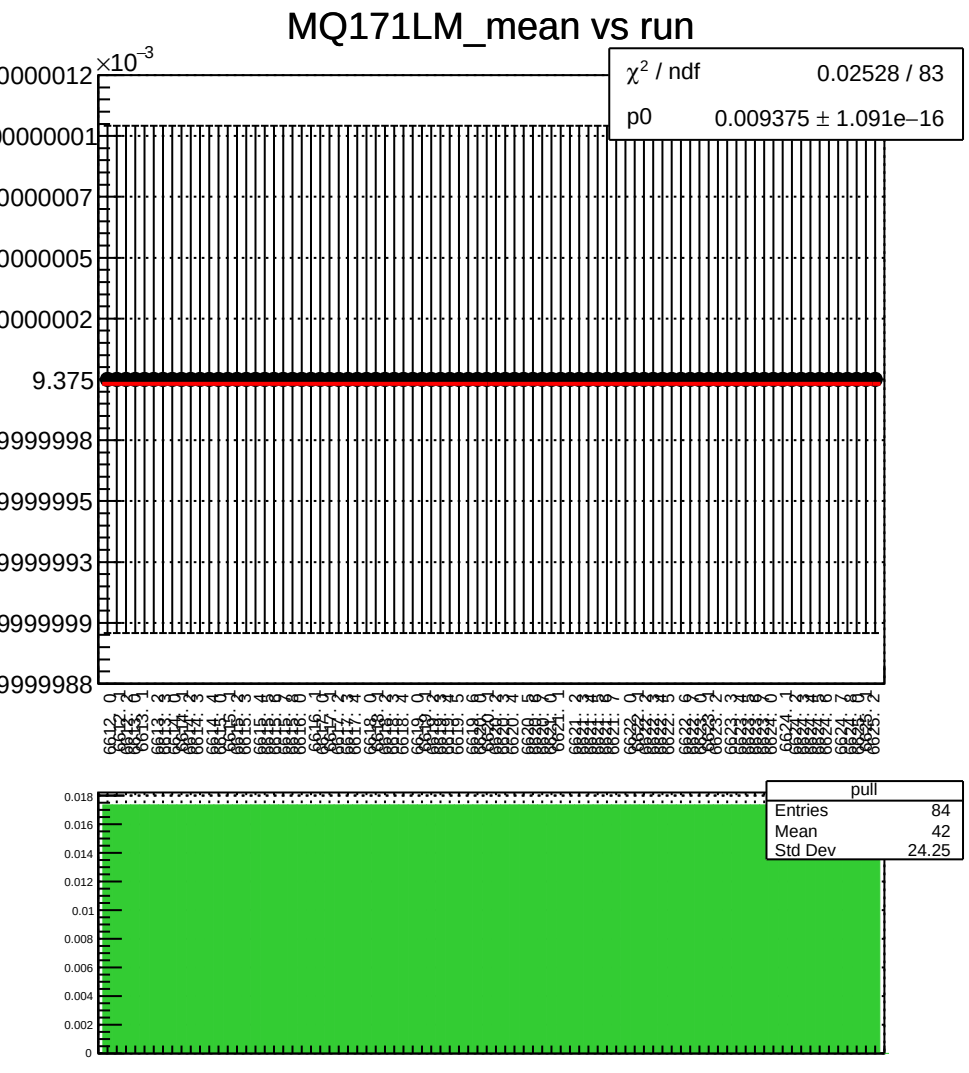

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 89.85 / 83
p0 −0.001959 ± 0.0005161
pull
Entries 84
Mean −90.97
Std Dev 0

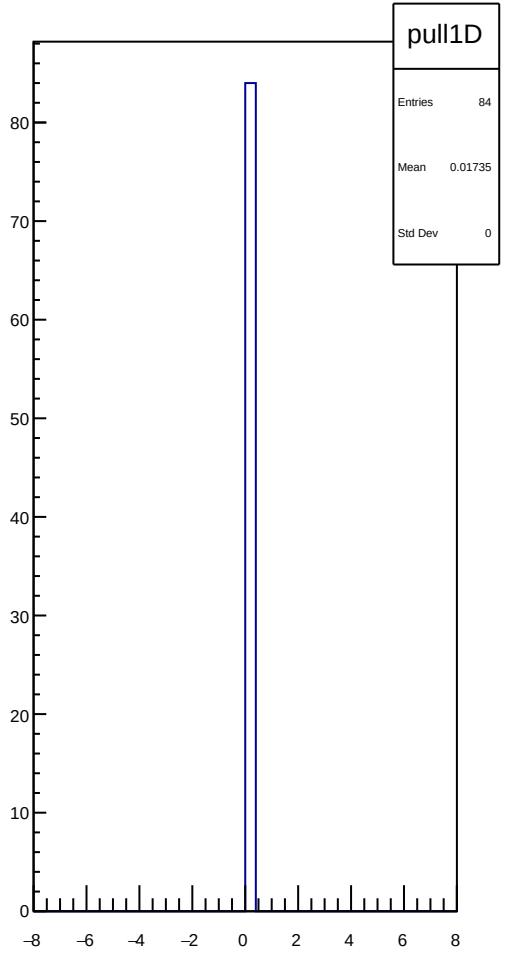

pull1D
Entries 84
Mean 0.02478
Std Dev 1.034

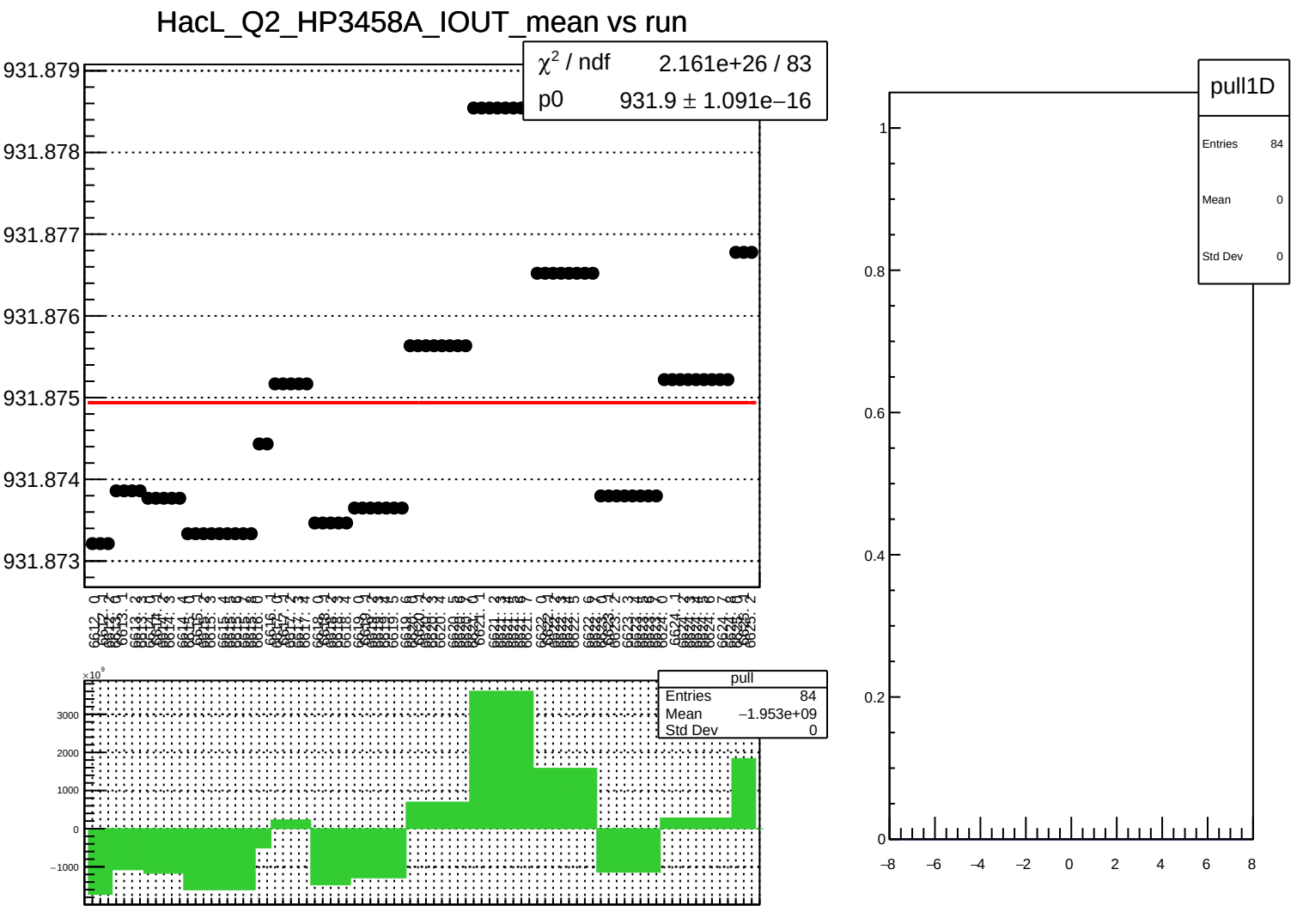

HALLA_p_mean vs run
χ² / ndf 2.092e+33 / 83
p0 2174 ± 1.091e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 84
Mean 1.757e+09
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
−16

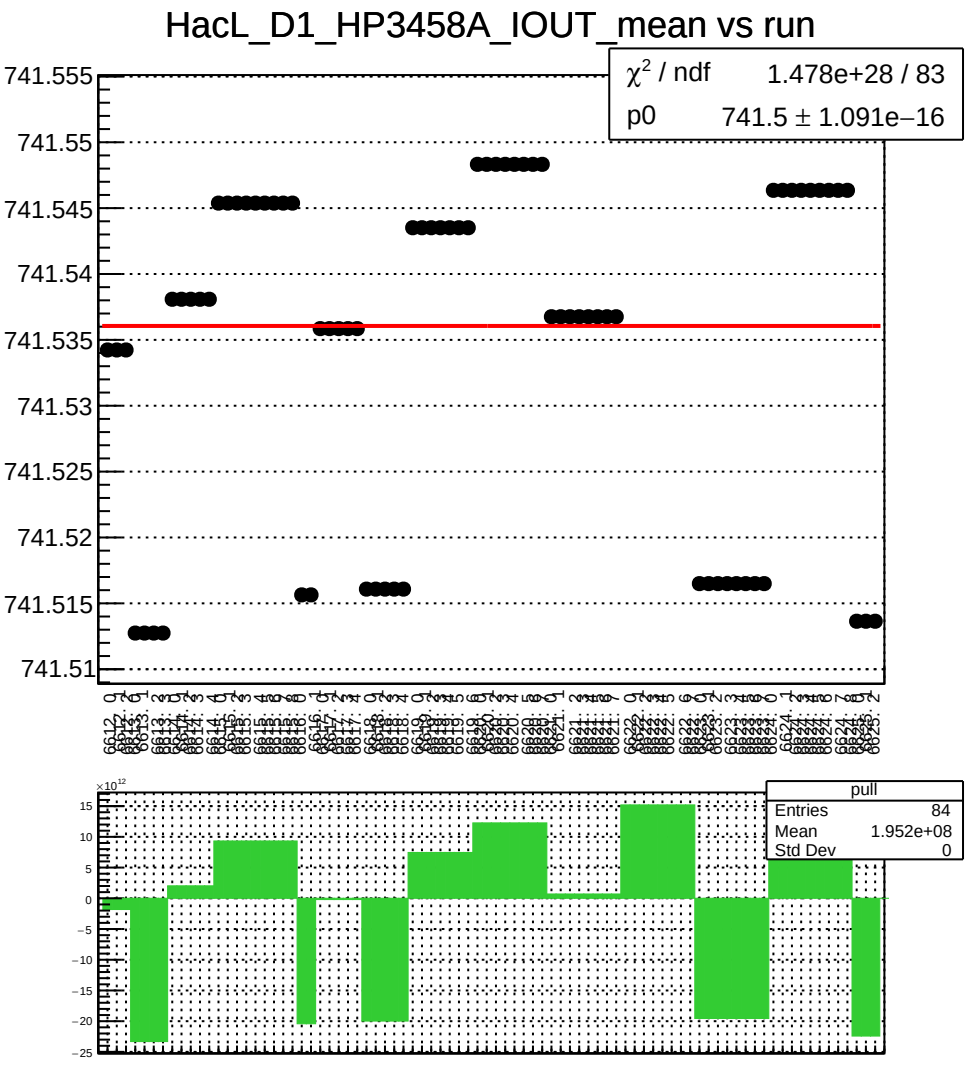

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

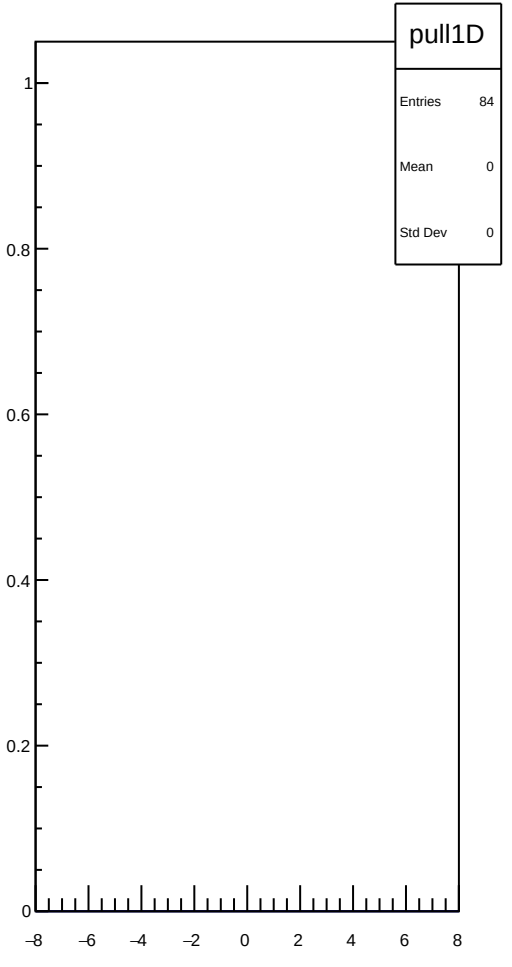

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.377e+23 / 83
p0 −8.809e−05 ± 1.091e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
80
60
40
20
0
−20
pull
Entries 84
Mean 1.026e+09
Std Dev 0
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

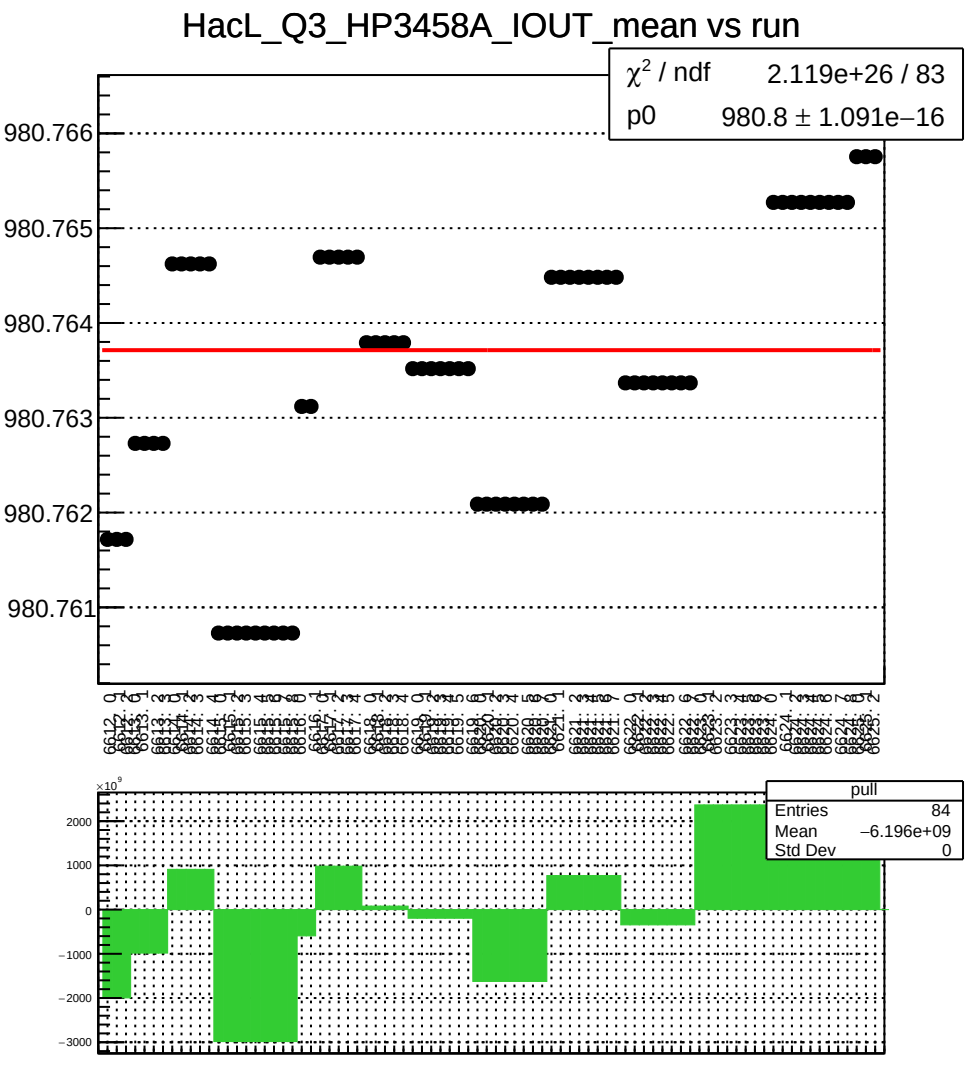

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
pull
Entries 84
Mean 42
Std Dev 24.25

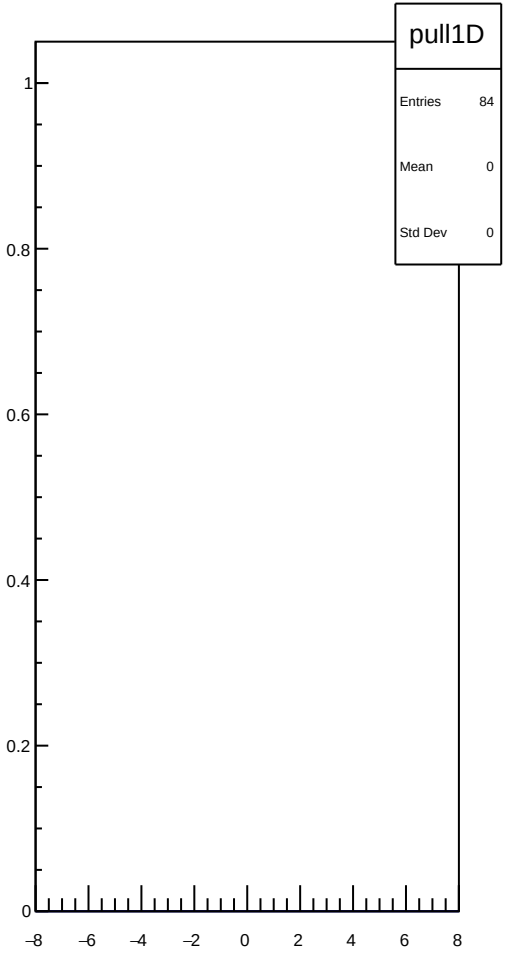

pull1D
Entries 84
Mean 0.01735
Std Dev 0

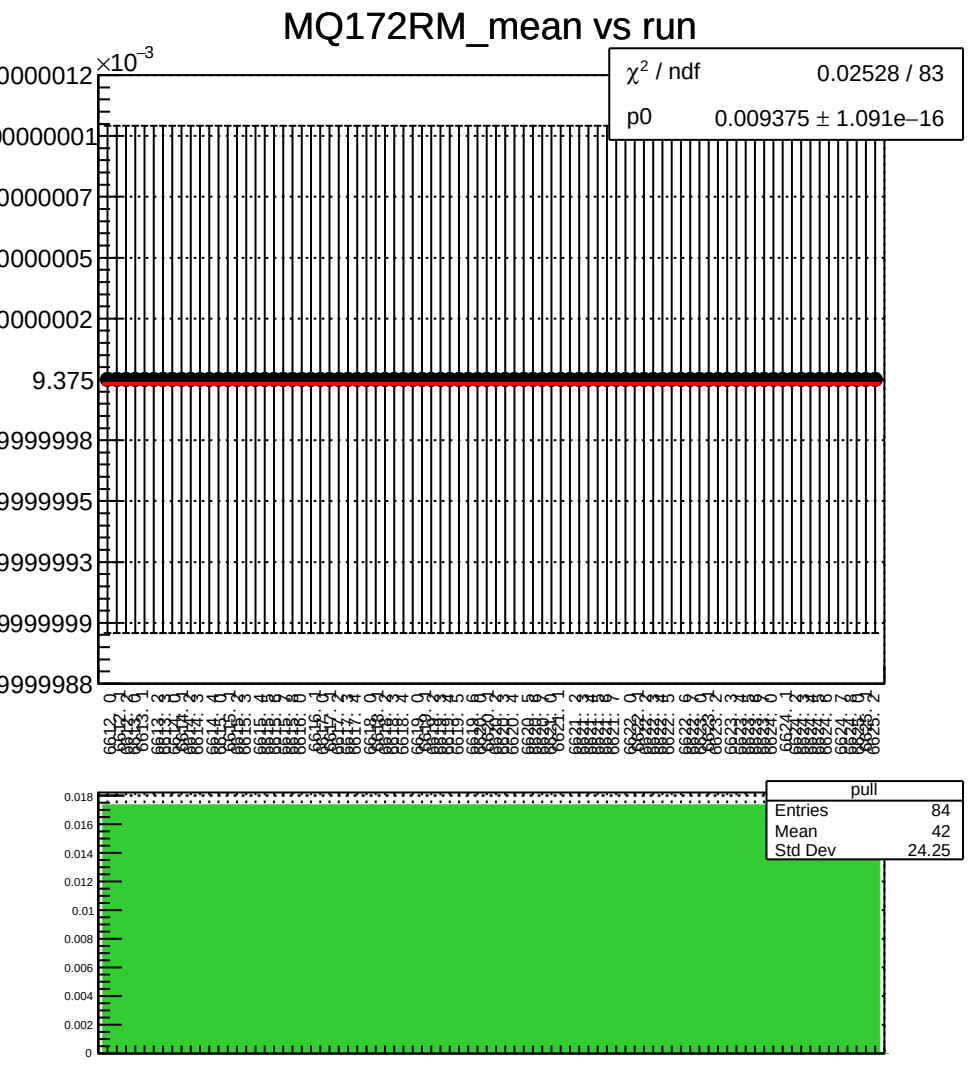

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.161e+26 / 83
p0 931.9 ± 1.091e−16
931.879
931.878
931.877
931.876
931.875
931.874
931.873
pull
Entries 84
Mean −1.953e+09
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

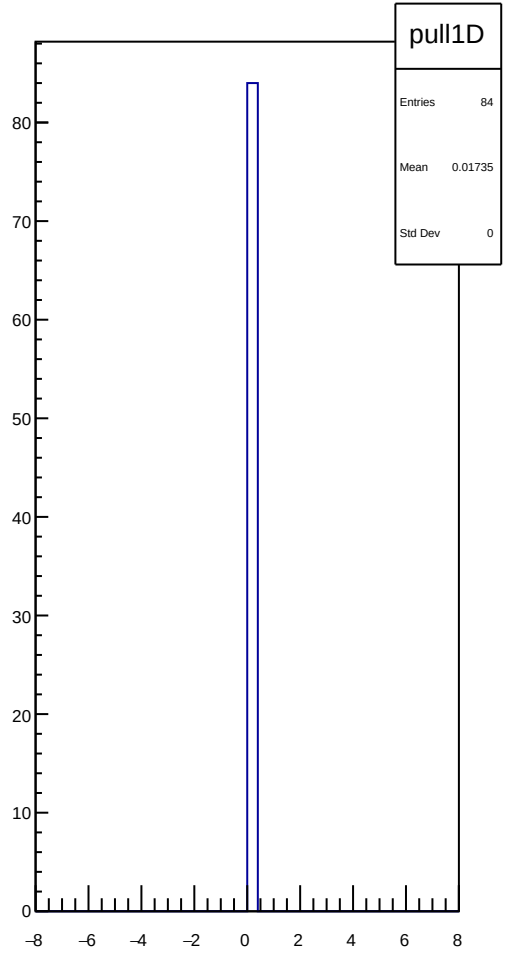

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.478e+28 / 83
p0 741.5 ± 1.091e−16
741.555
741.55
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
pull
Entries 84
Mean 1.952e+08
Std Dev 0
×10¹²
15
10
5
0
−5
−10
−15
−20
−25

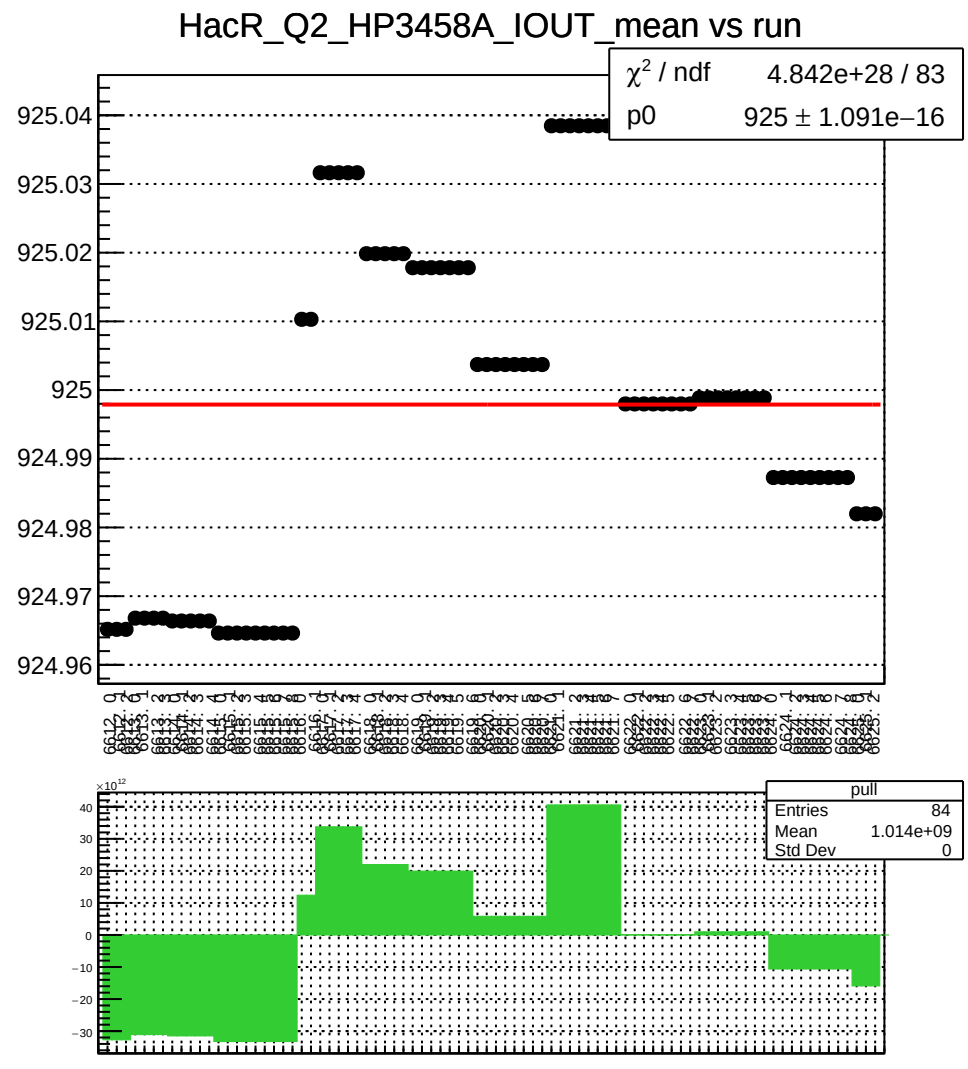

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

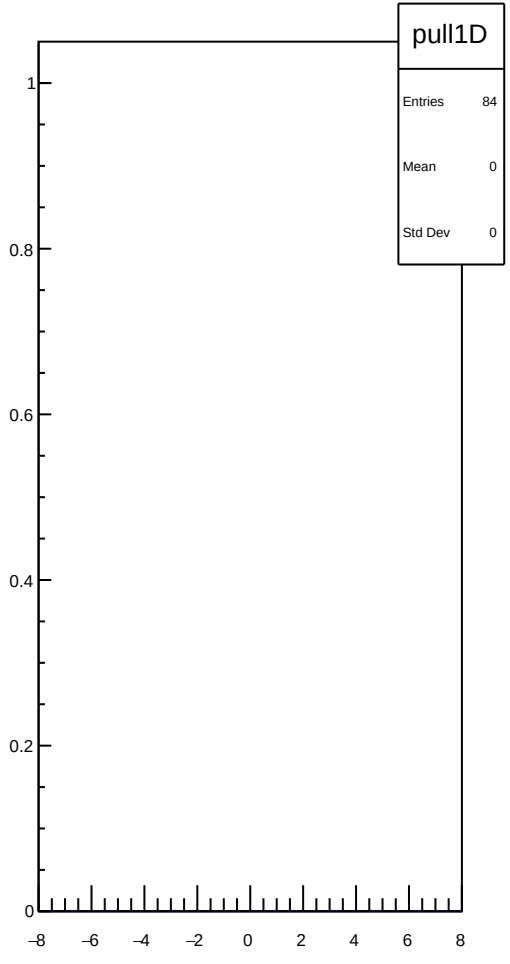

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.119e+26 / 83
p0 980.8 ± 1.091e−16
980.766
980.765
980.764
980.763
980.762
980.761
pull
Entries 84
Mean −6.196e+09
Std Dev 0
×10⁹
2000
1000
0
−1000
−2000
−3000

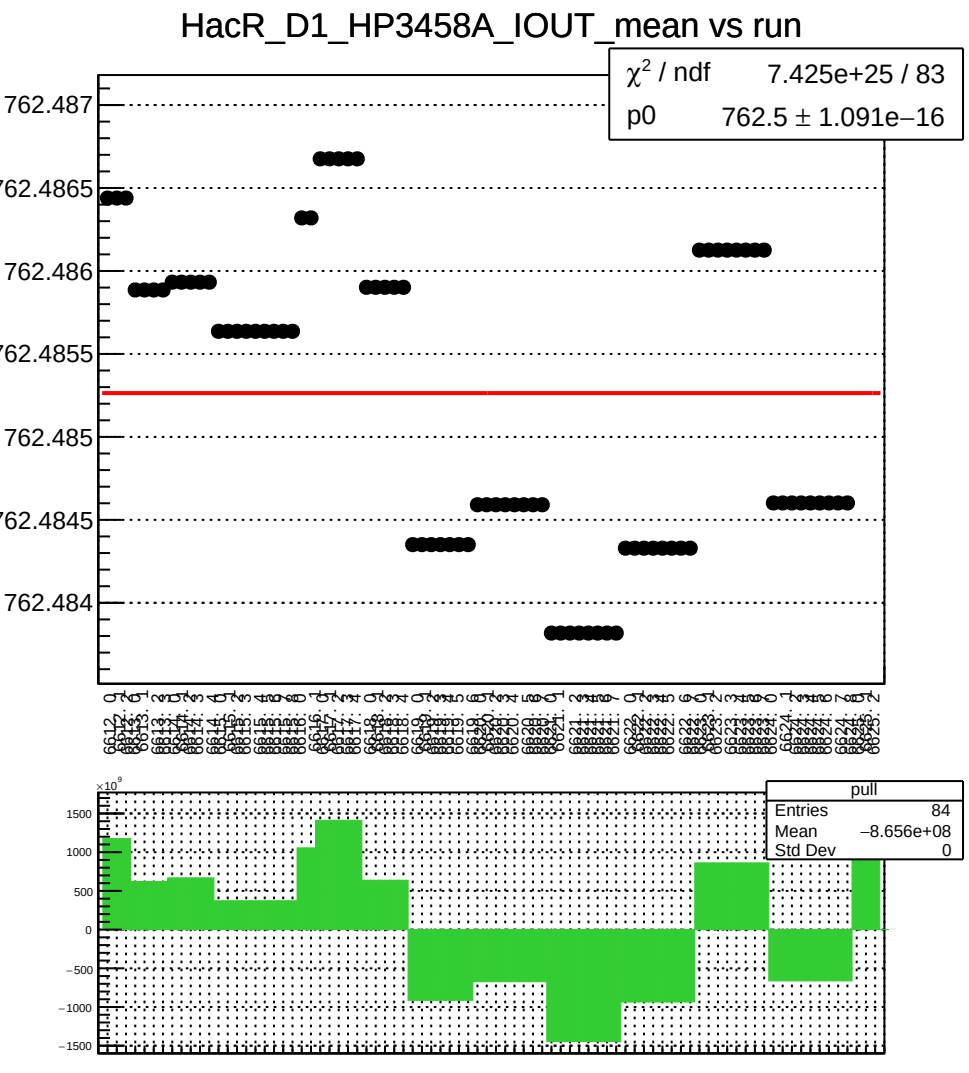

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

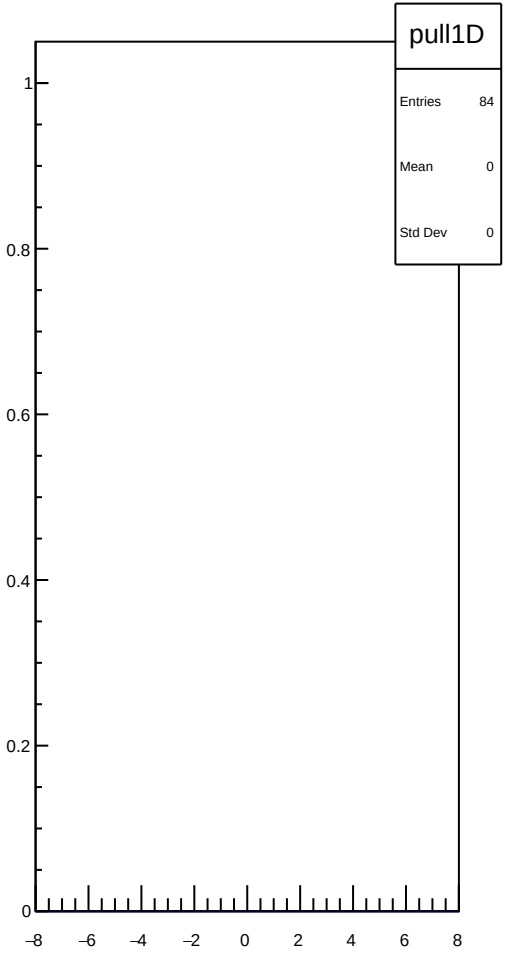

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
9.375
pull
Entries 84
Mean 42
Std Dev 24.25

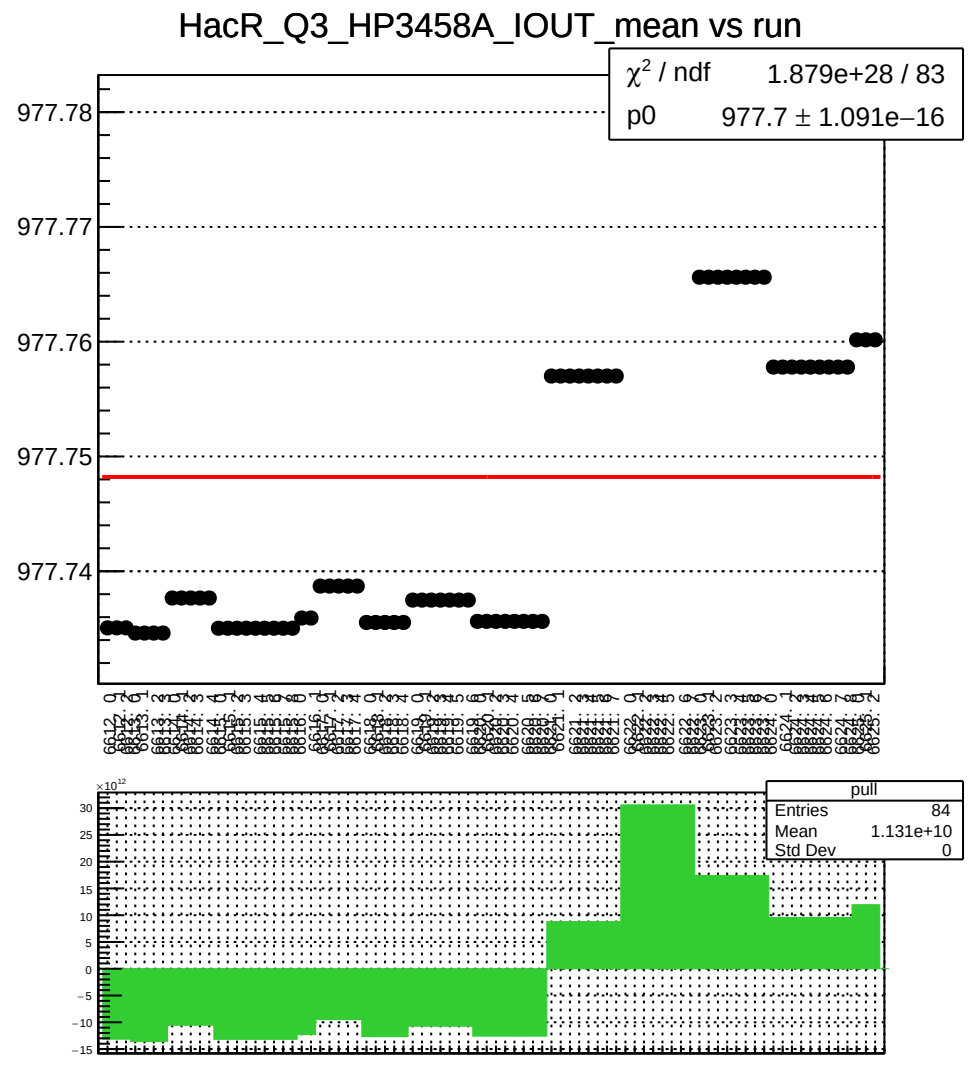

pull1D
Entries 84
Mean 0.01735
Std Dev 0

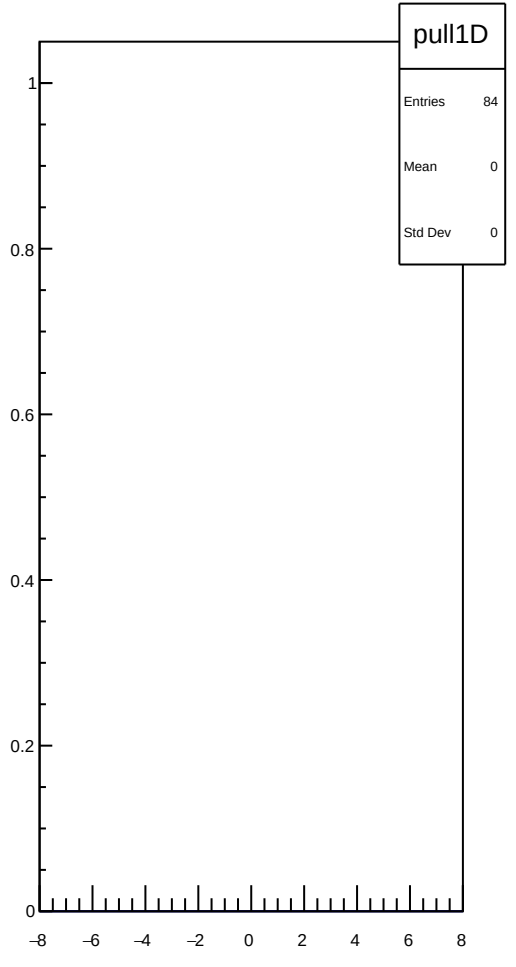

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.842e+28 / 83
p0 925 ± 1.091e−16
925.04
925.03
925.02
925.01
925
924.99
924.98
924.97
924.96
pull
Entries 84
Mean 1.014e+09
Std Dev 0
×10¹²
40
30
20
10
0
−10
−20
−30

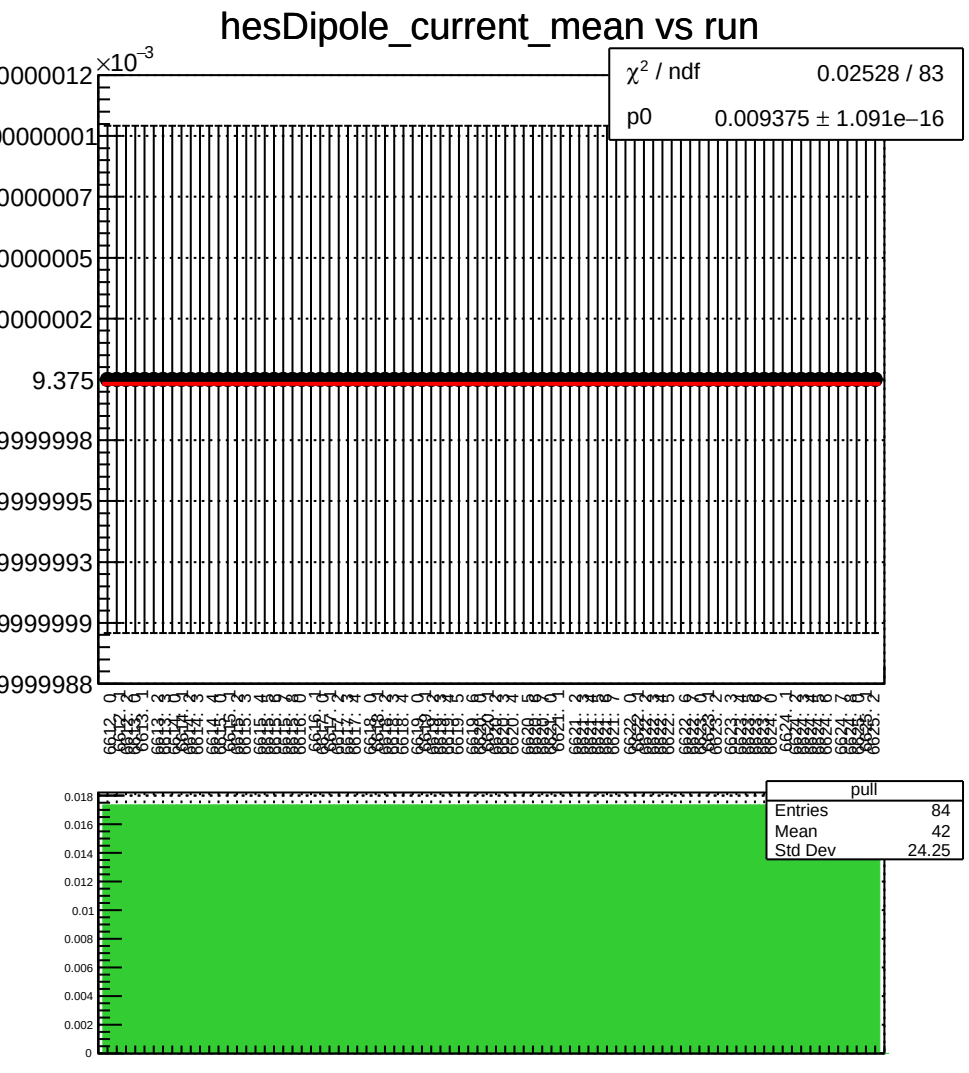

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

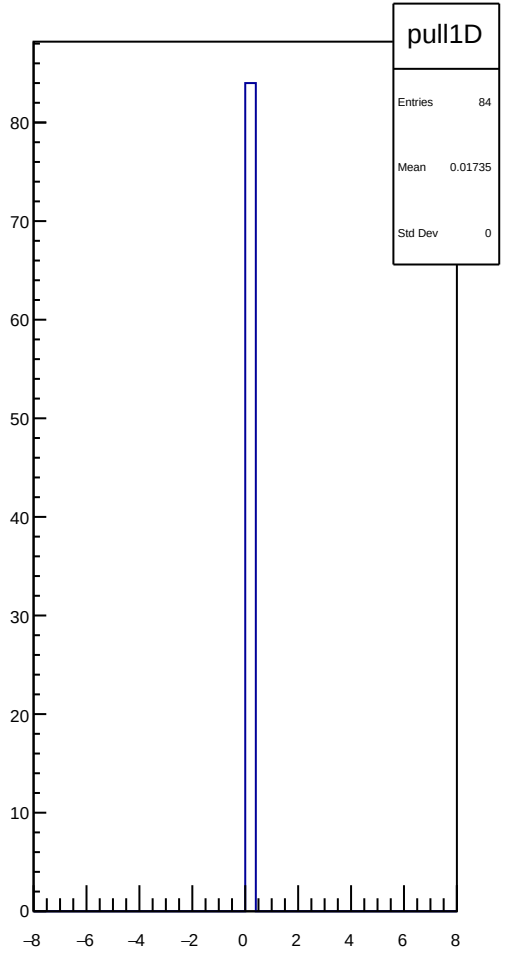

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 7.425e+25 / 83
p0 762.5 ± 1.091e−16
762.487
762.4865
762.486
762.4855
762.485
762.4845
762.484
pull
Entries 84
Mean −8.656e+08
Std Dev 0
×10⁹
1500
1000
500
0
−500
−1000
−1500

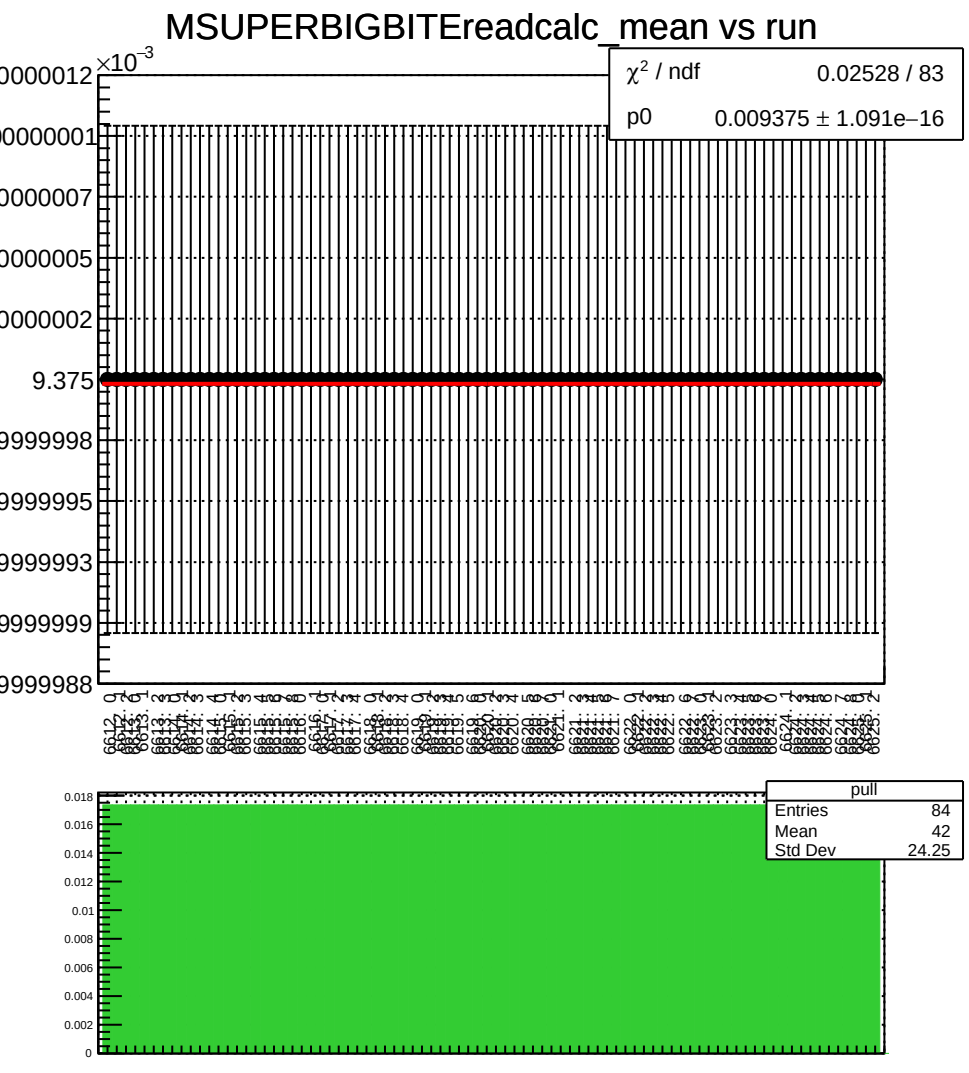

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

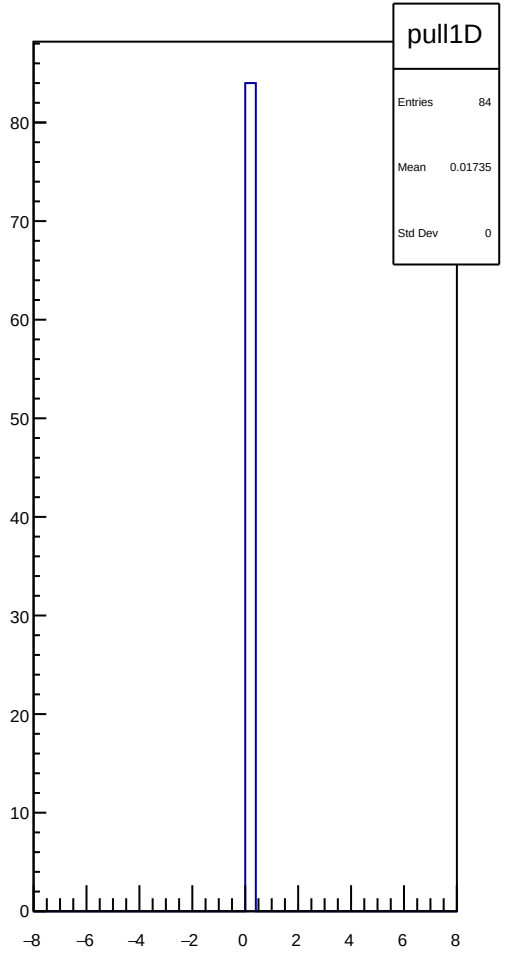

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.879e+28 / 83
p0 977.7 ± 1.091e−16
977.78
977.77
977.76
977.75
977.74
pull
Entries 84
Mean 1.131e+10
Std Dev 0
×10¹²
30
25
20
15
10
5
0
−5
−10
−15

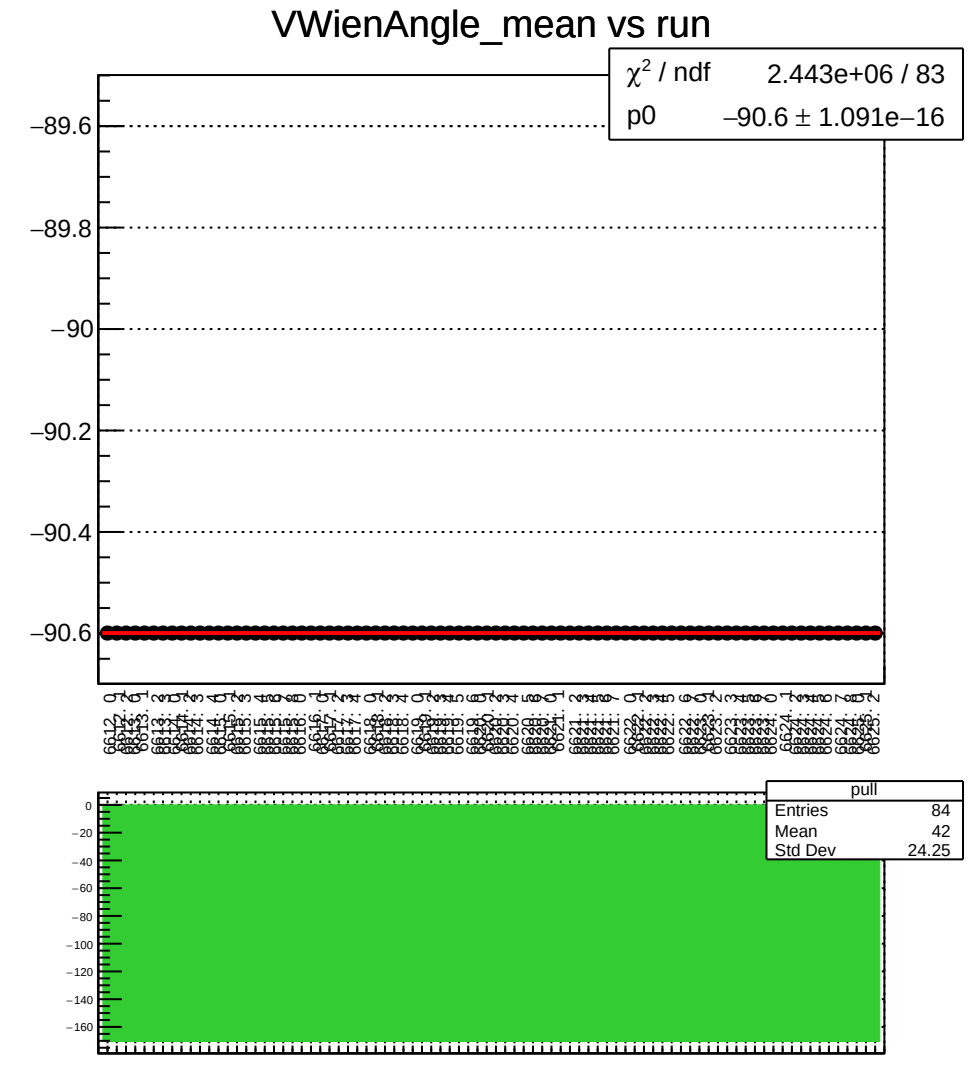

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

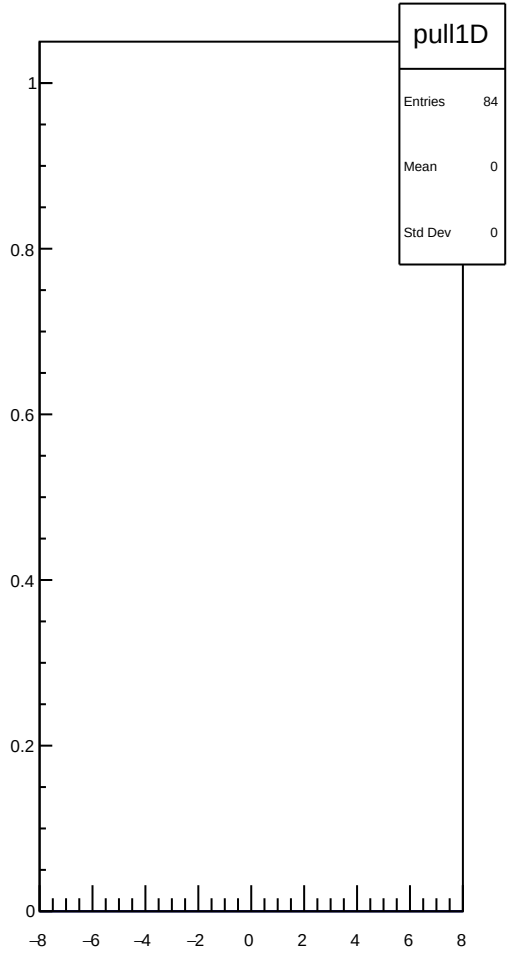

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
pull
Entries 84
Mean 42
Std Dev 24.25

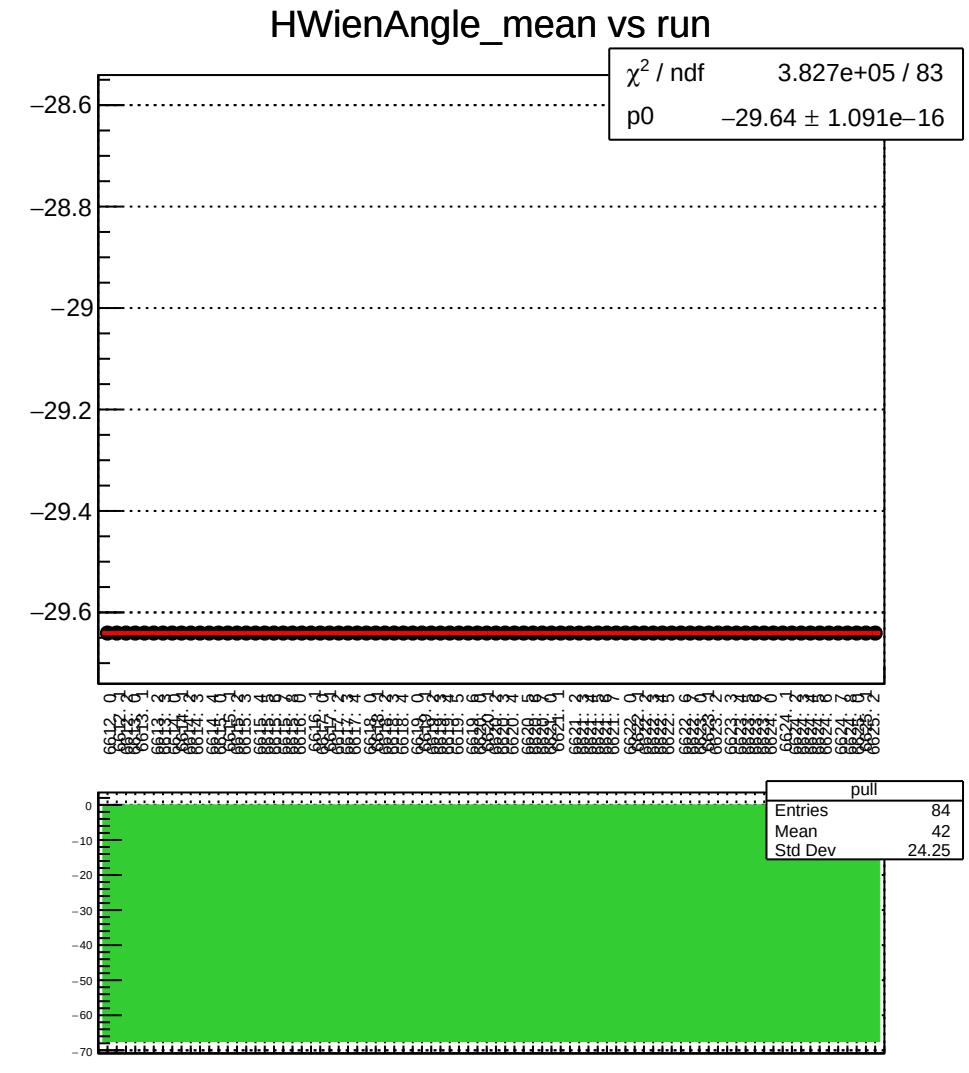

pull1D
Entries 84
Mean 0.01735
Std Dev 0

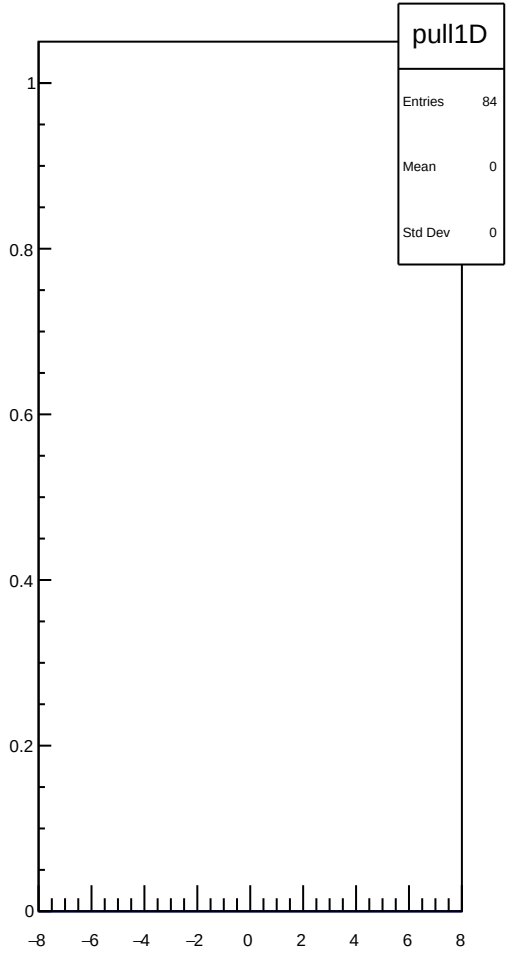

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
×10⁻³
pull
Entries 84
Mean 42
Std Dev 24.25

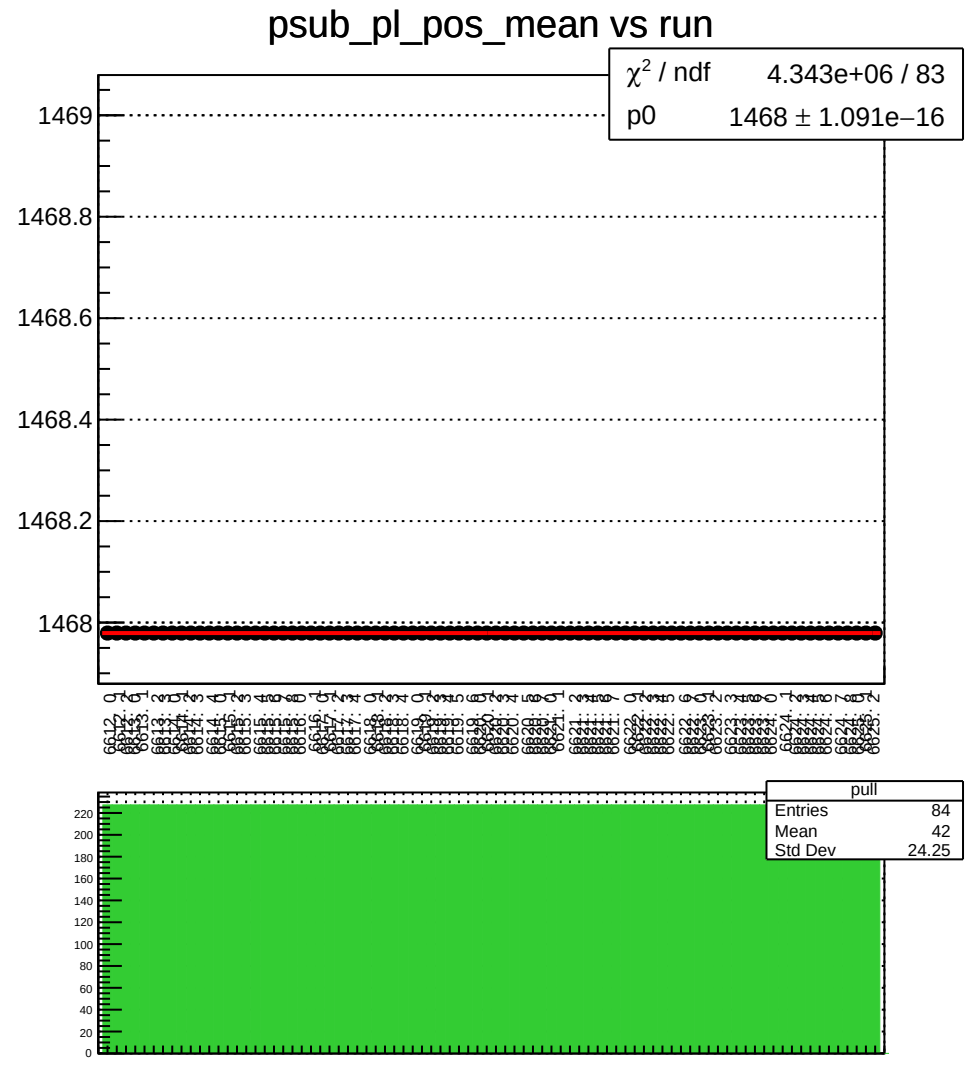

pull1D
Entries 84
Mean 0.01735
Std Dev 0

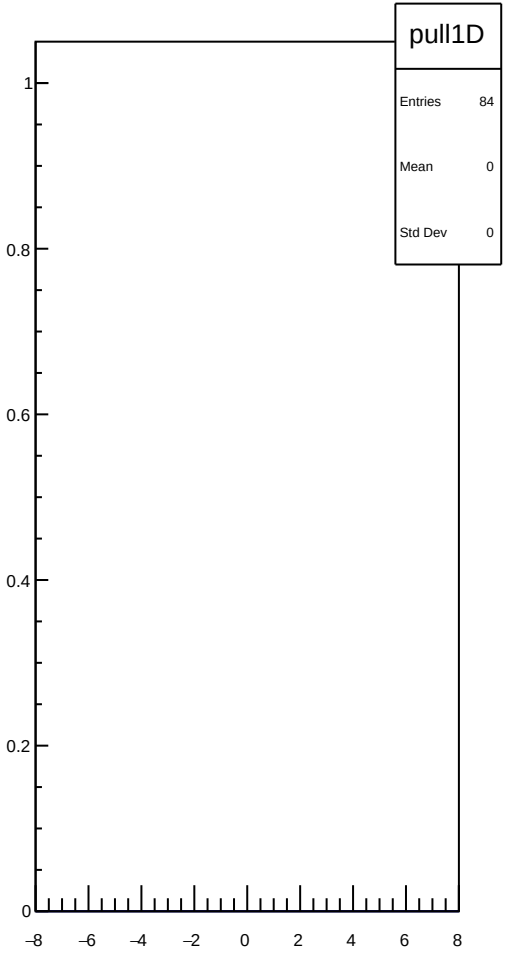

VWienAngle_mean vs run
χ² / ndf 2.443e+06 / 83
p0 −90.6 ± 1.091e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 84
Mean 42
Std Dev 24.25
0
−20
−40
−60
−80
−100
−120
−140
−160

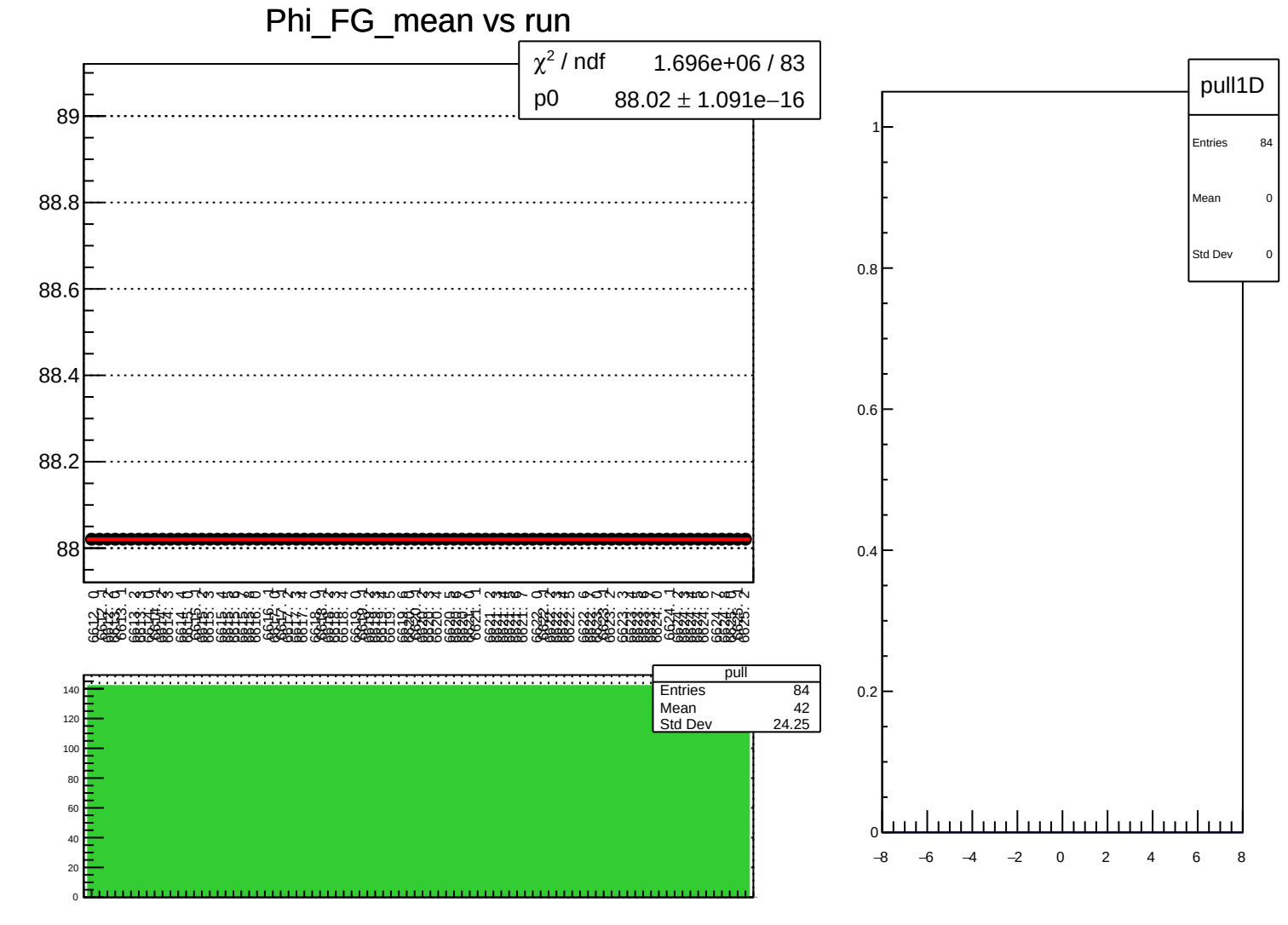

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

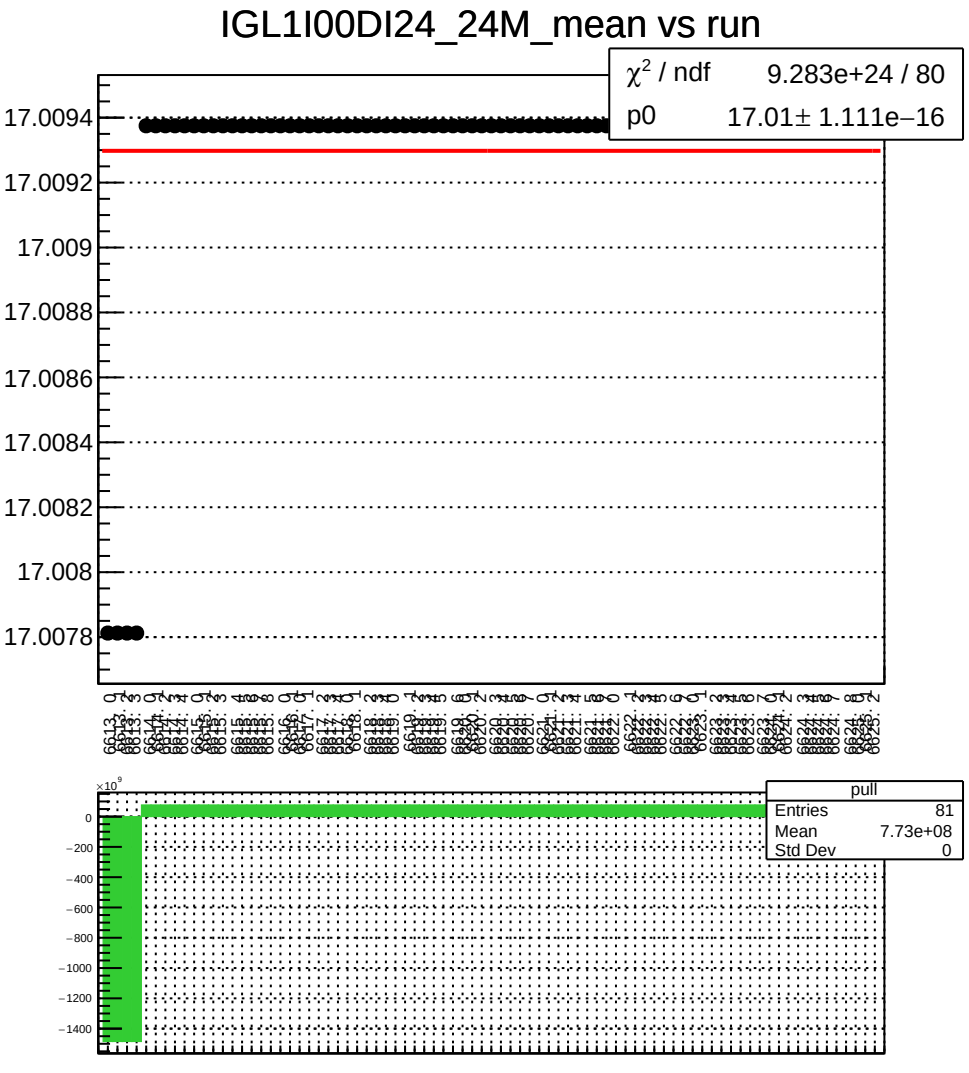

HWienAngle_mean vs run
χ² / ndf 3.827e+05 / 83
p0 −29.64 ± 1.091e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 84
Mean 42
Std Dev 24.25
0
−10
−20
−30
−40
−50
−60
−70

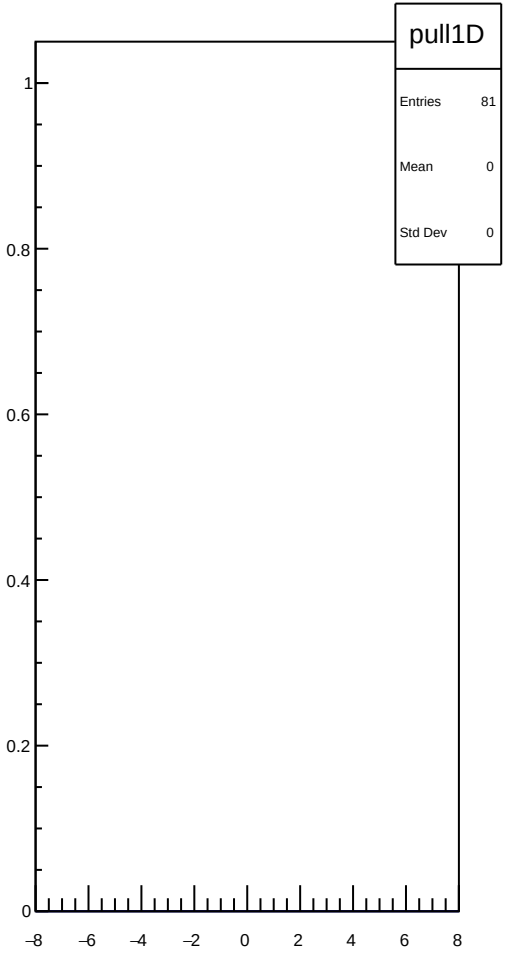

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

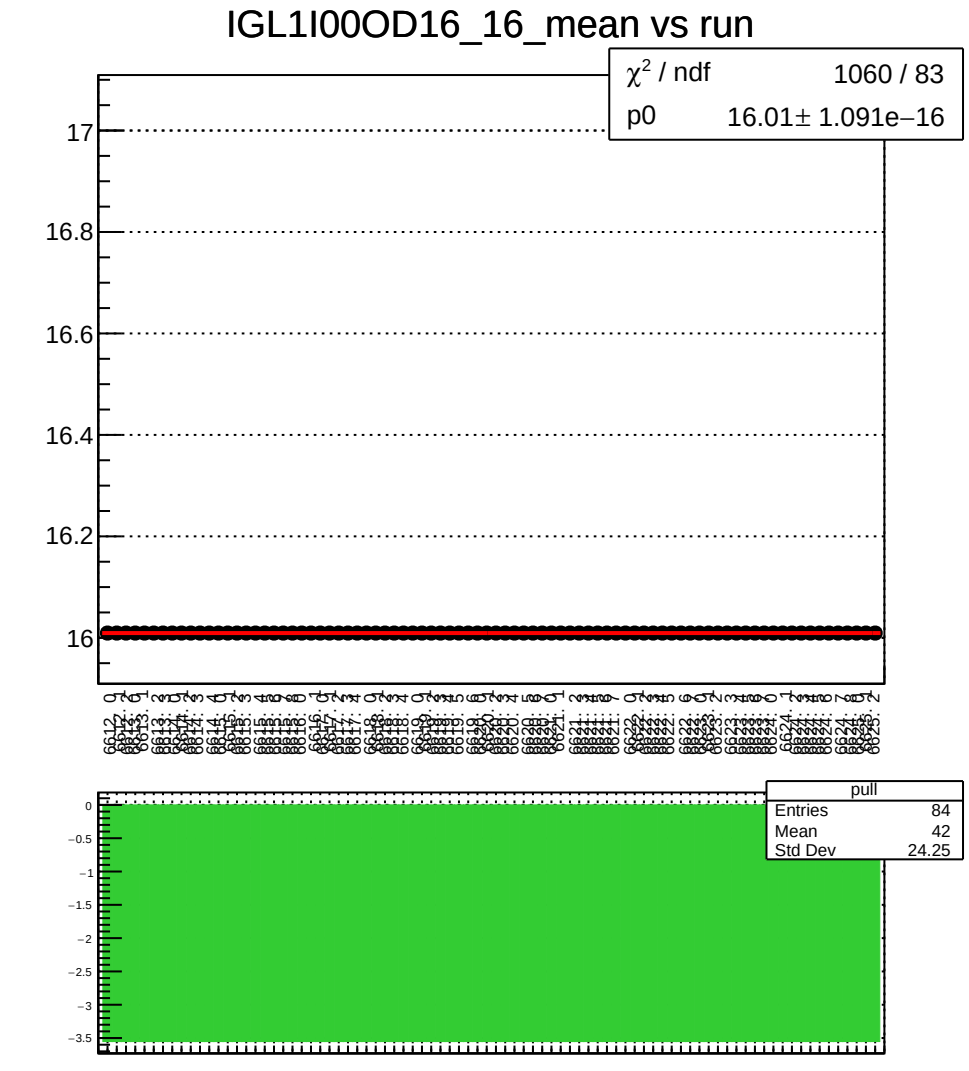

psub_pl_pos_mean vs run
χ² / ndf 4.343e+06 / 83
p0 1468 ± 1.091e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 84
Mean 42
Std Dev 24.25
220
200
180
160
140
120
100
80
60
40
20
0

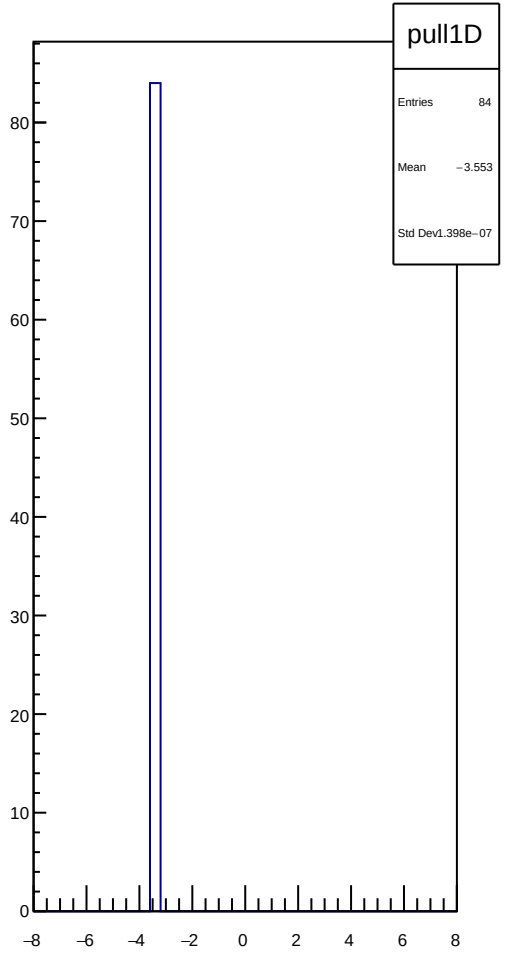

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

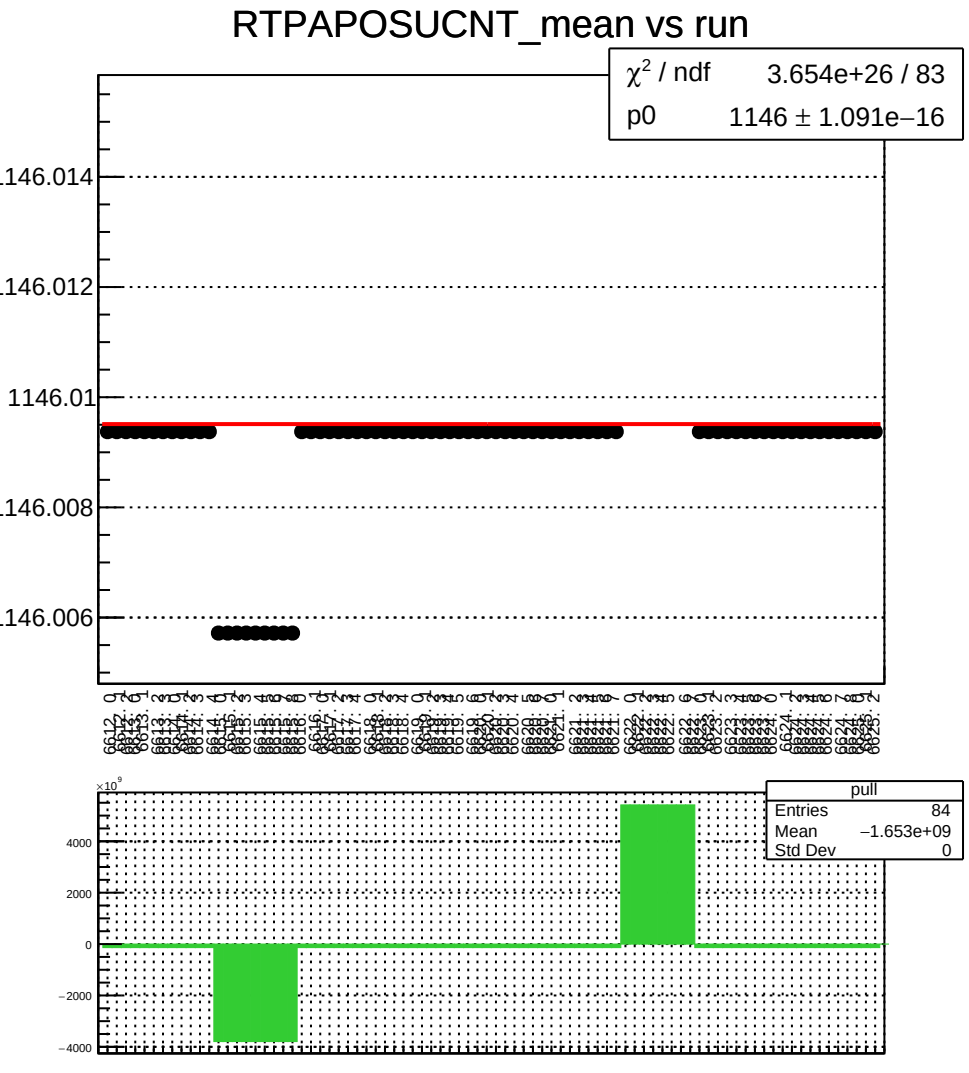

Phi_FG_mean vs run
χ² / ndf 1.696e+06 / 83
p0 88.02 ± 1.091e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 84
Mean 42
Std Dev 24.25
140
120
100
80
60
40
20
0
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

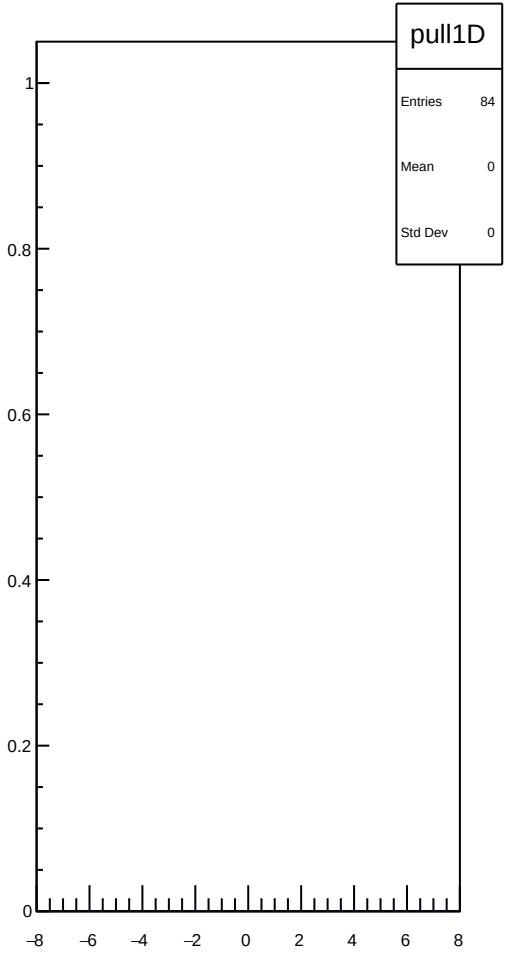

IGL1I00DI24_24M_mean vs run
χ² / ndf 9.283e+24 / 80
p0 17.01± 1.111e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 81
Mean 7.73e+08
Std Dev 0
×10⁹
0
−200
−400
−600
−800
−1000
−1200
−1400

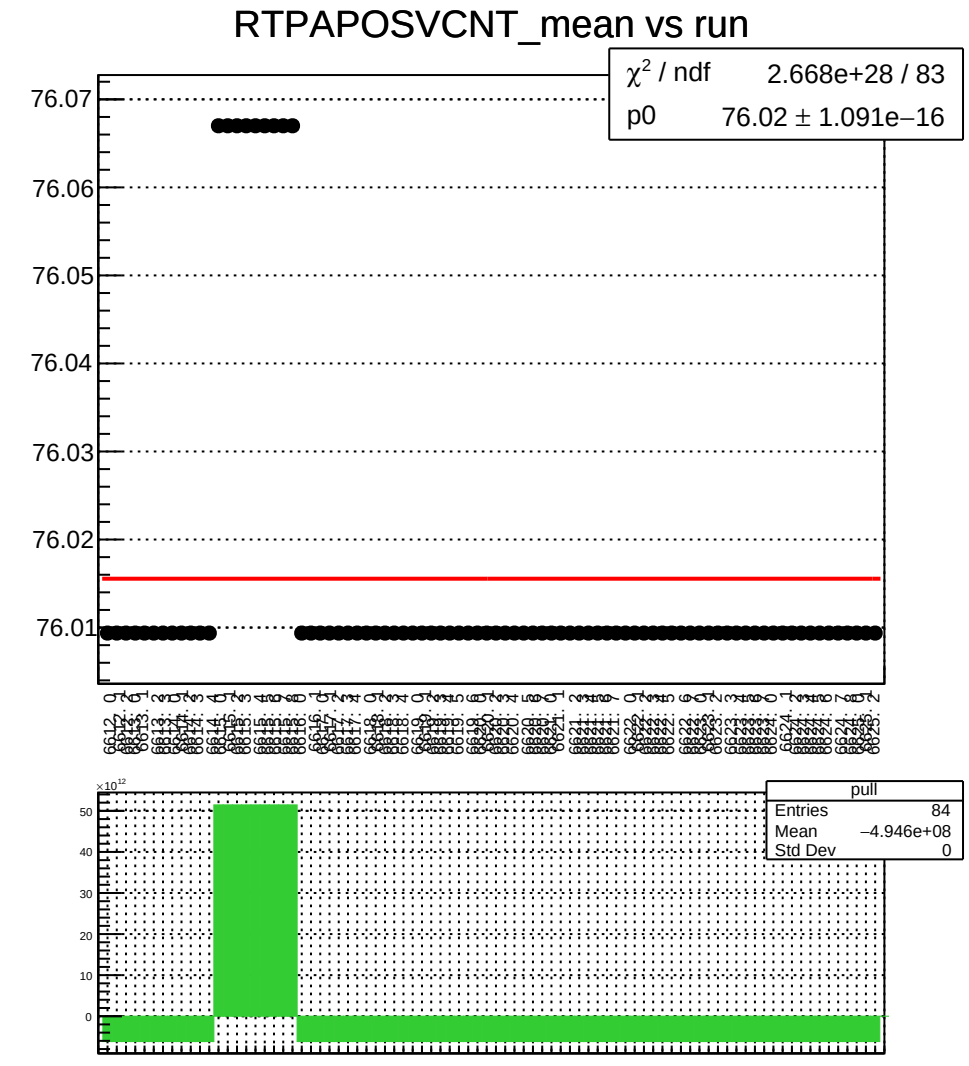

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

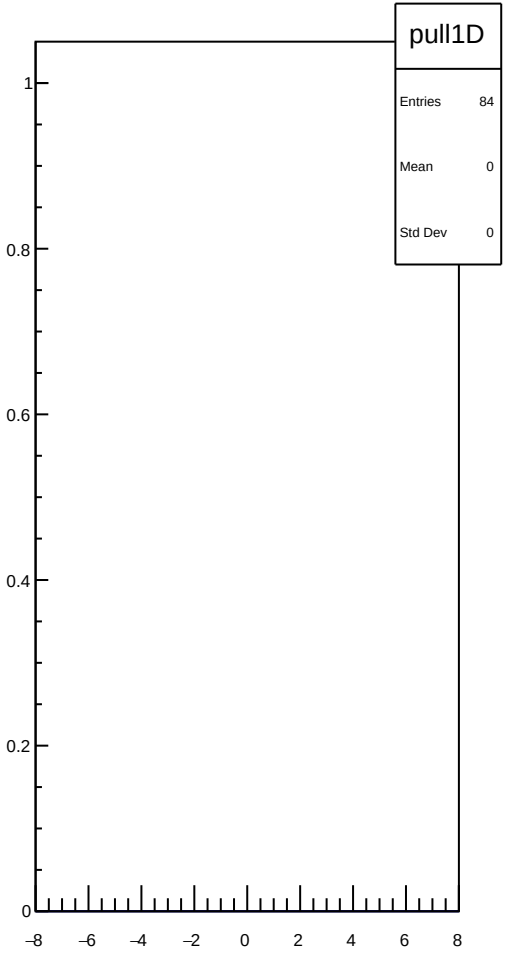

IGL1I00OD16_16_mean vs run
χ² / ndf 1060 / 83
p0 16.01± 1.091e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 84
Mean 42
Std Dev 24.25
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5

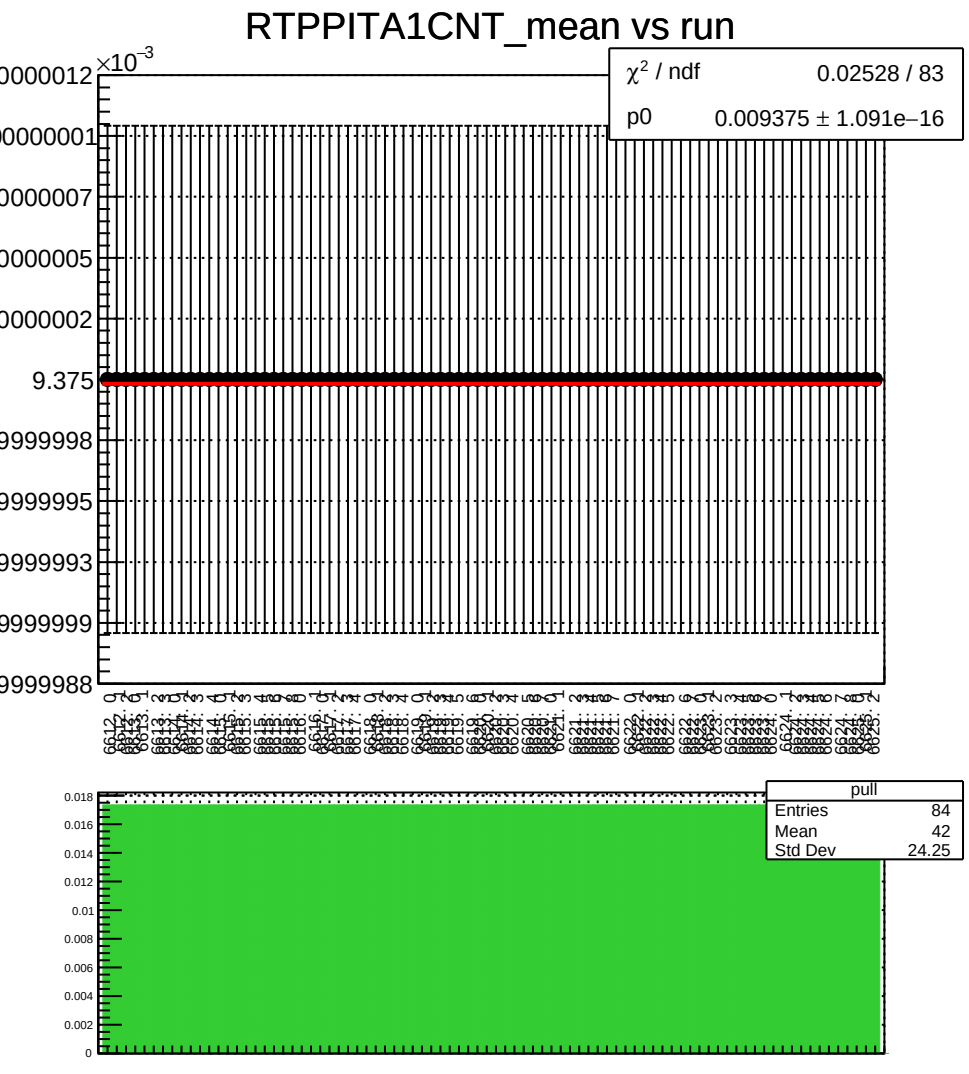

pull1D
Entries 84
Mean −3.553
Std Dev 1.398e−07
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

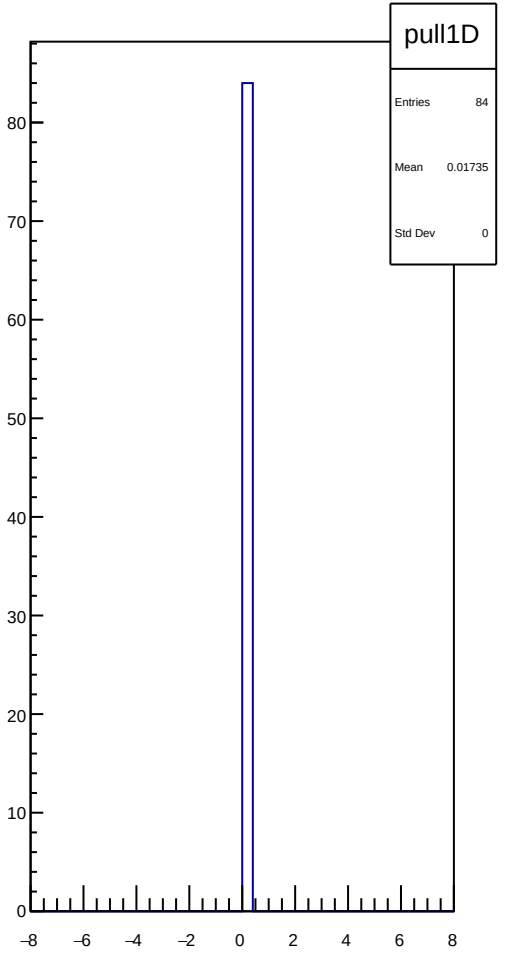

RTPAPOSUCNT_mean vs run
χ² / ndf 3.654e+26 / 83
p0 1146 ± 1.091e−16
1146.014
1146.012
1146.01
1146.008
1146.006
×10⁹
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −1.653e+09
Std Dev 0

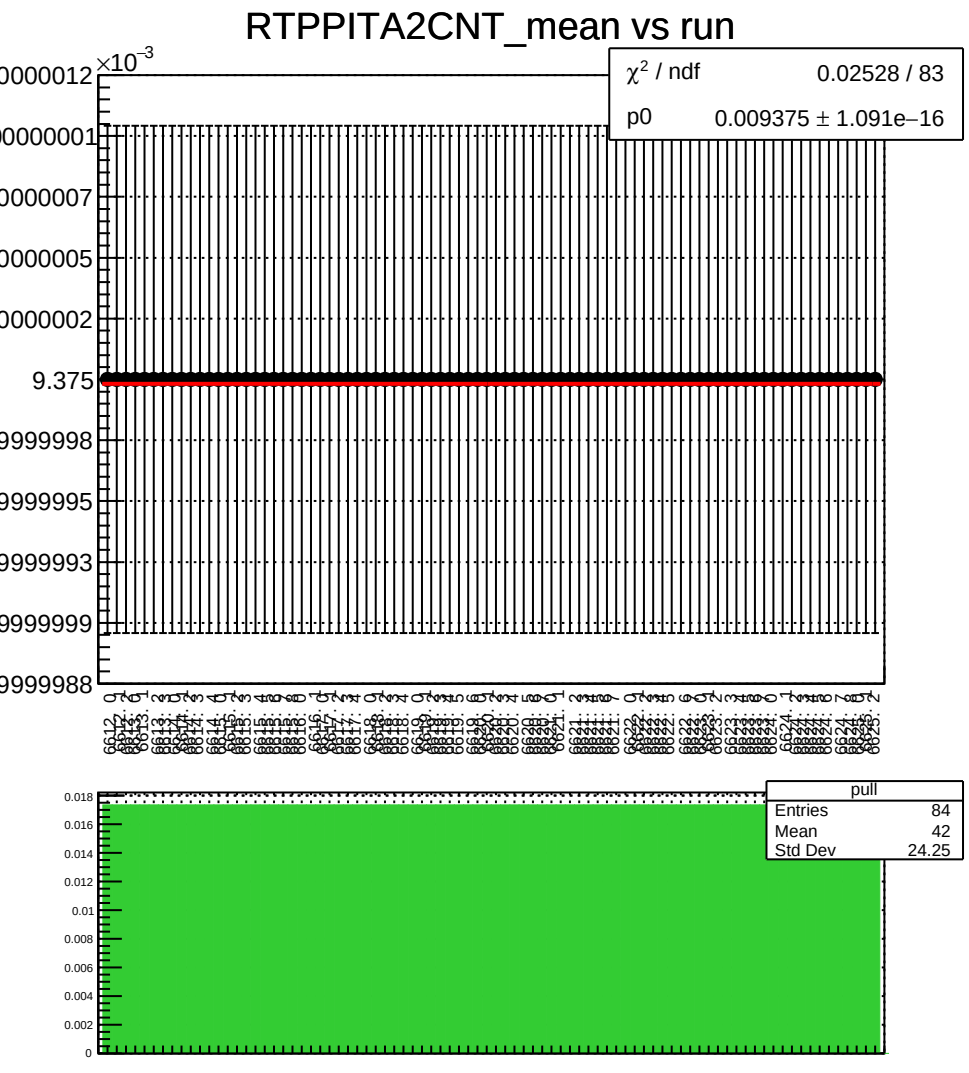

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

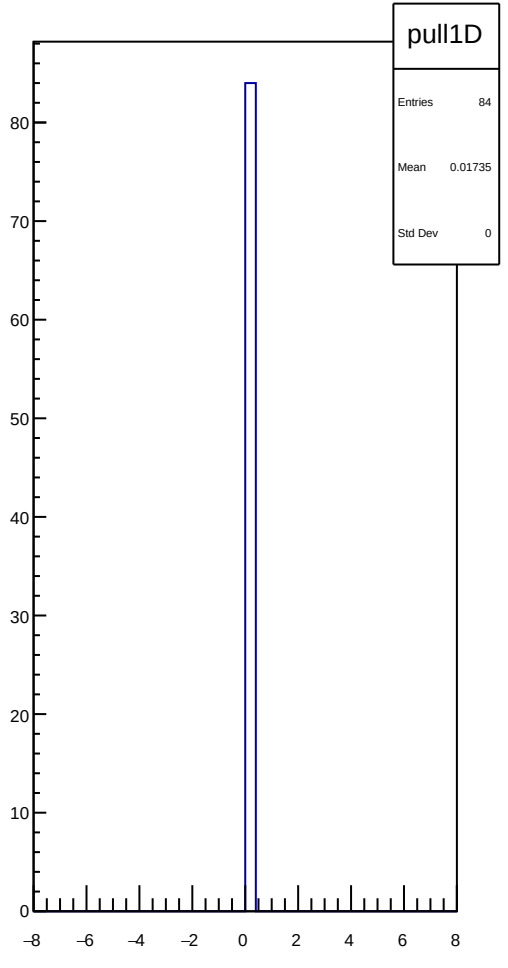

RTPAPOSVCNT_mean vs run
χ² / ndf 2.668e+28 / 83
p0 76.02 ± 1.091e−16
76.07
76.06
76.05
76.04
76.03
76.02
76.01
pull
Entries 84
Mean −4.946e+08
Std Dev 0
×10¹²
50
40
30
20
10
0


pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
×10⁻³
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
9.375
pull
Entries 84
Mean 42
Std Dev 24.25


pull1D
Entries 84
Mean 0.01735
Std Dev 0


RTPPITA2CNT_mean vs run
×10⁻³
χ² / ndf 0.02528 / 83
p0 0.009375 ± 1.091e−16
pull
Entries 84
Mean 42
Std Dev 24.25


pull1D
Entries 84
Mean 0.01735
Std Dev 0