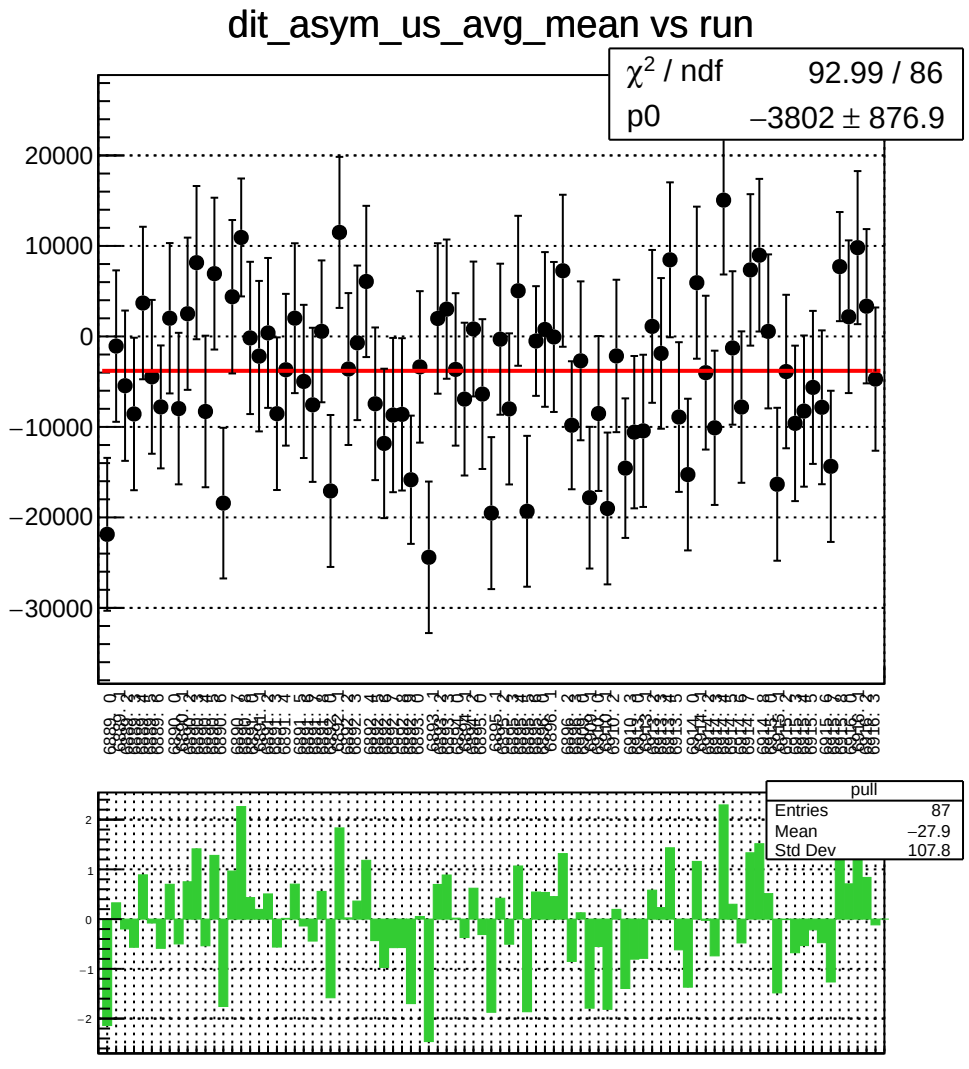
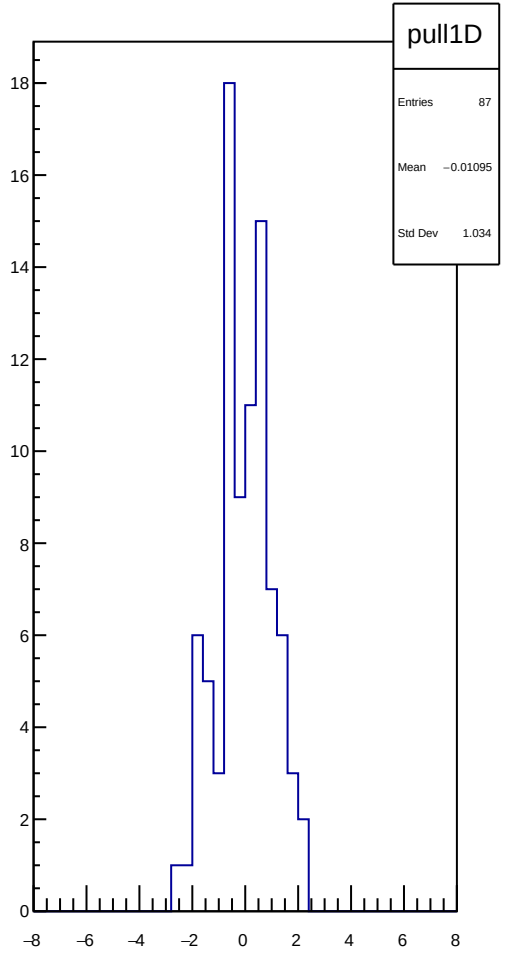
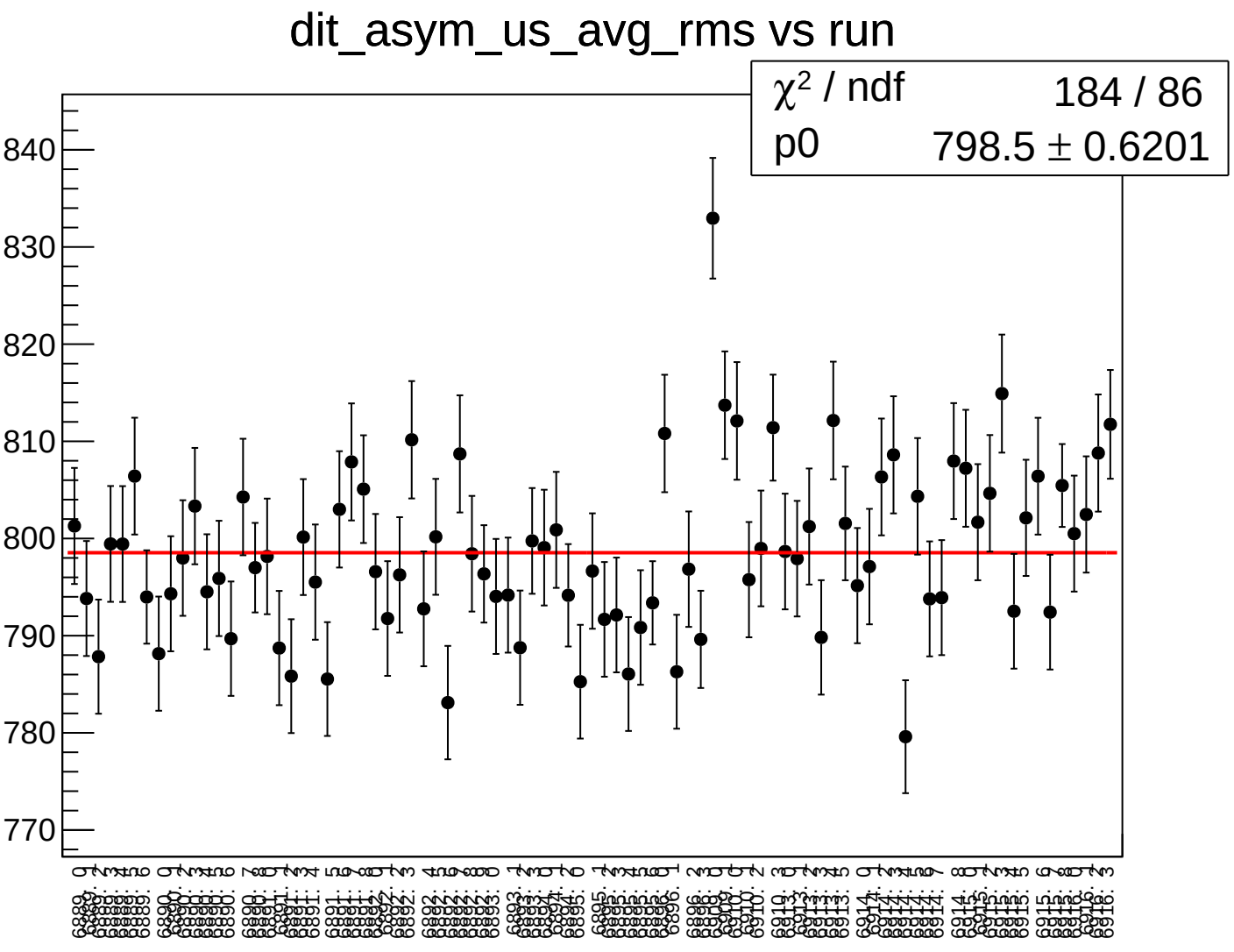
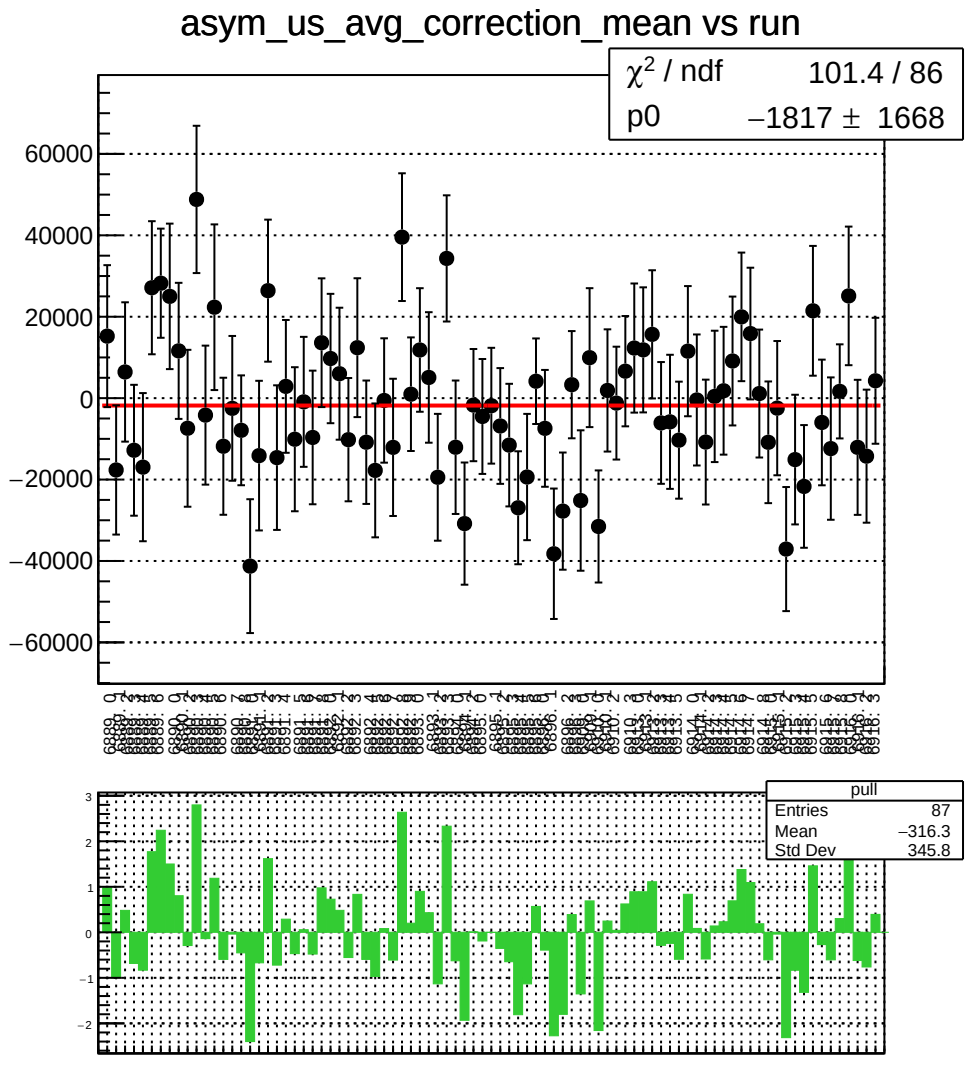
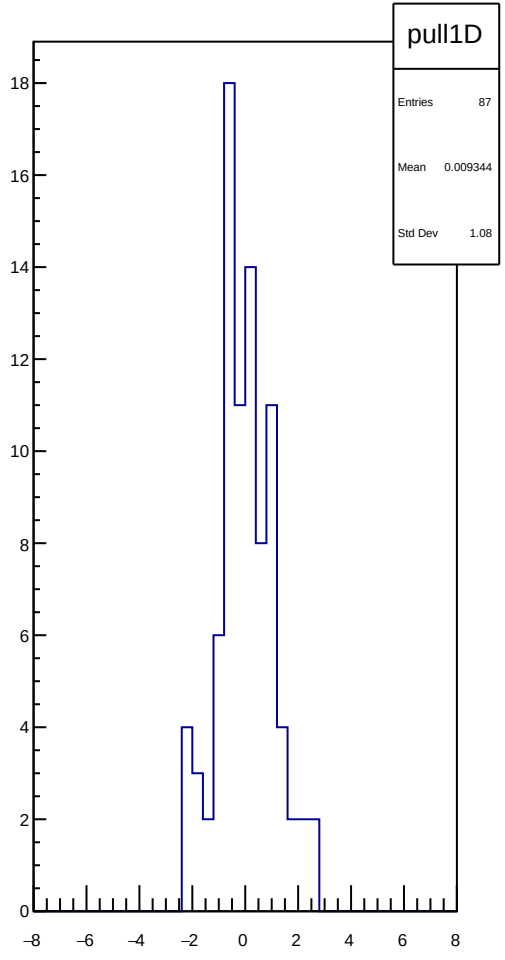
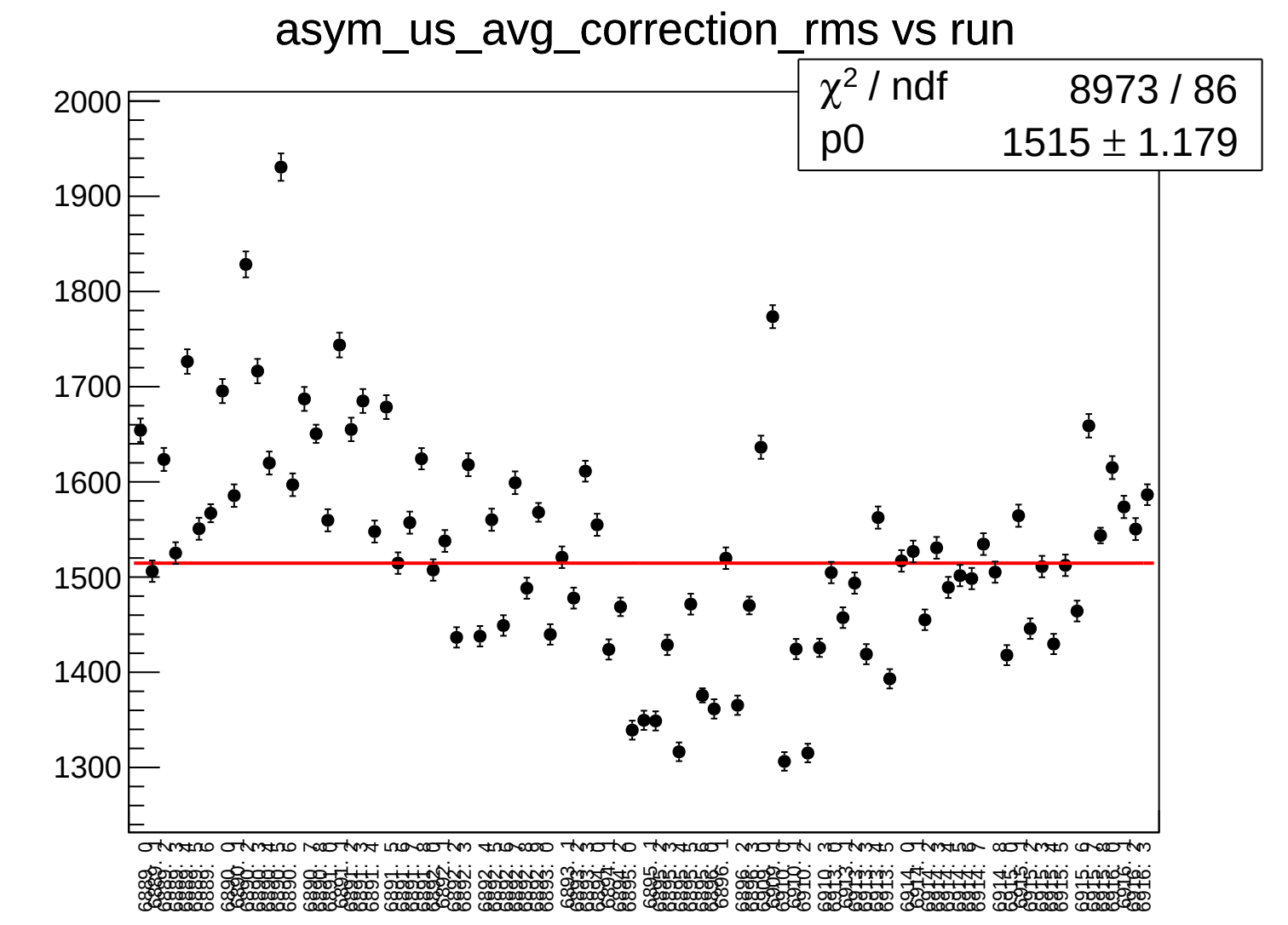

dit_asym_us_avg_mean vs run
χ² / ndf 92.99 / 86
p0 −3802 ± 876.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −27.9
Std Dev 107.8
2
1
0
−1
−2

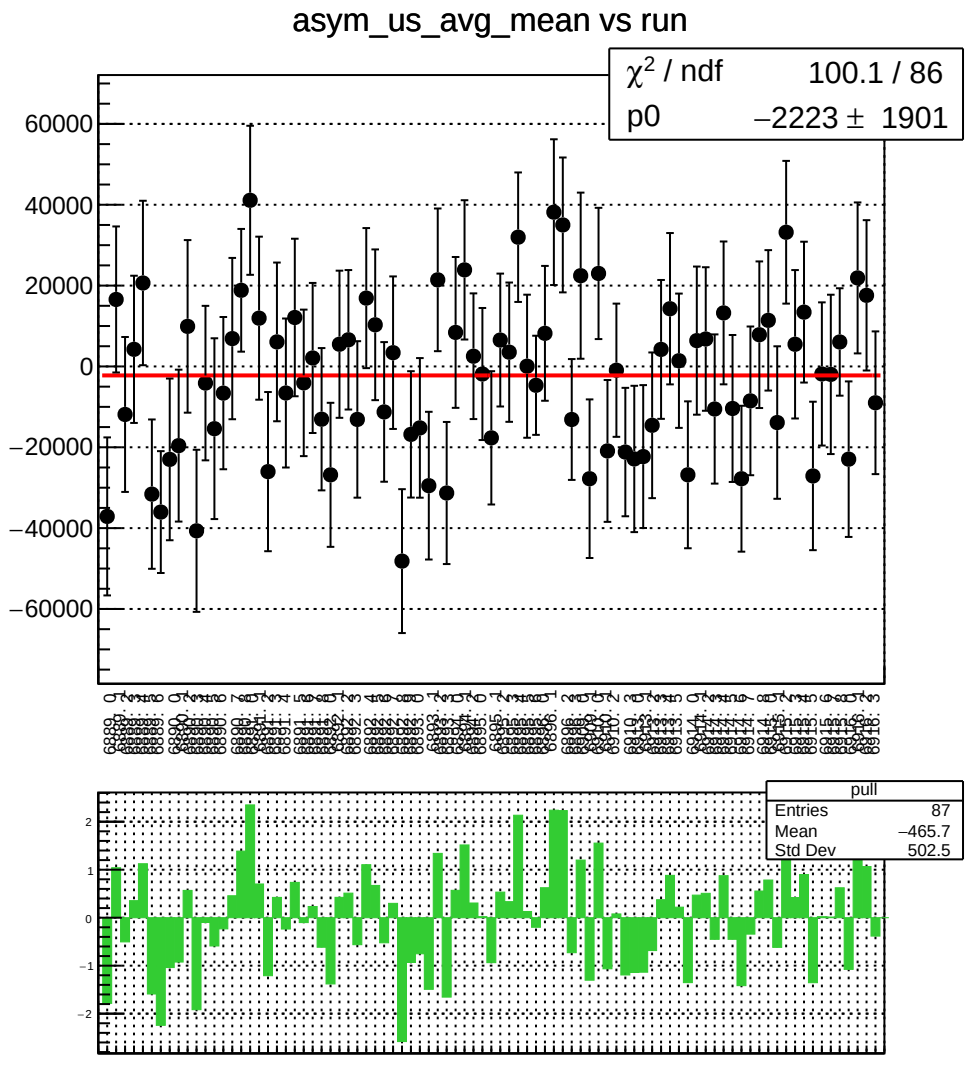

pull1D
Entries 87
Mean −0.01095
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

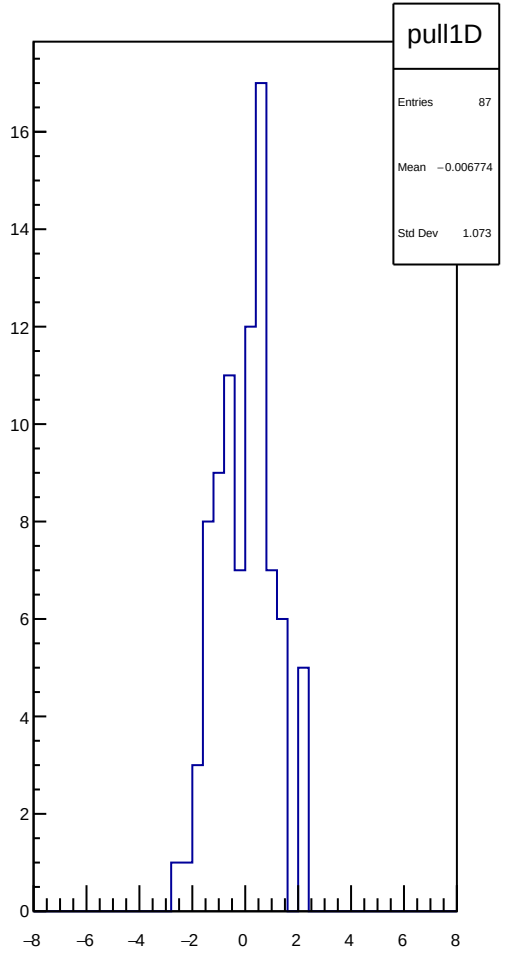

dit_asym_us_avg_rms vs run
χ² / ndf 184 / 86
p0 798.5 ± 0.6201
840
830
820
810
800
790
780
770

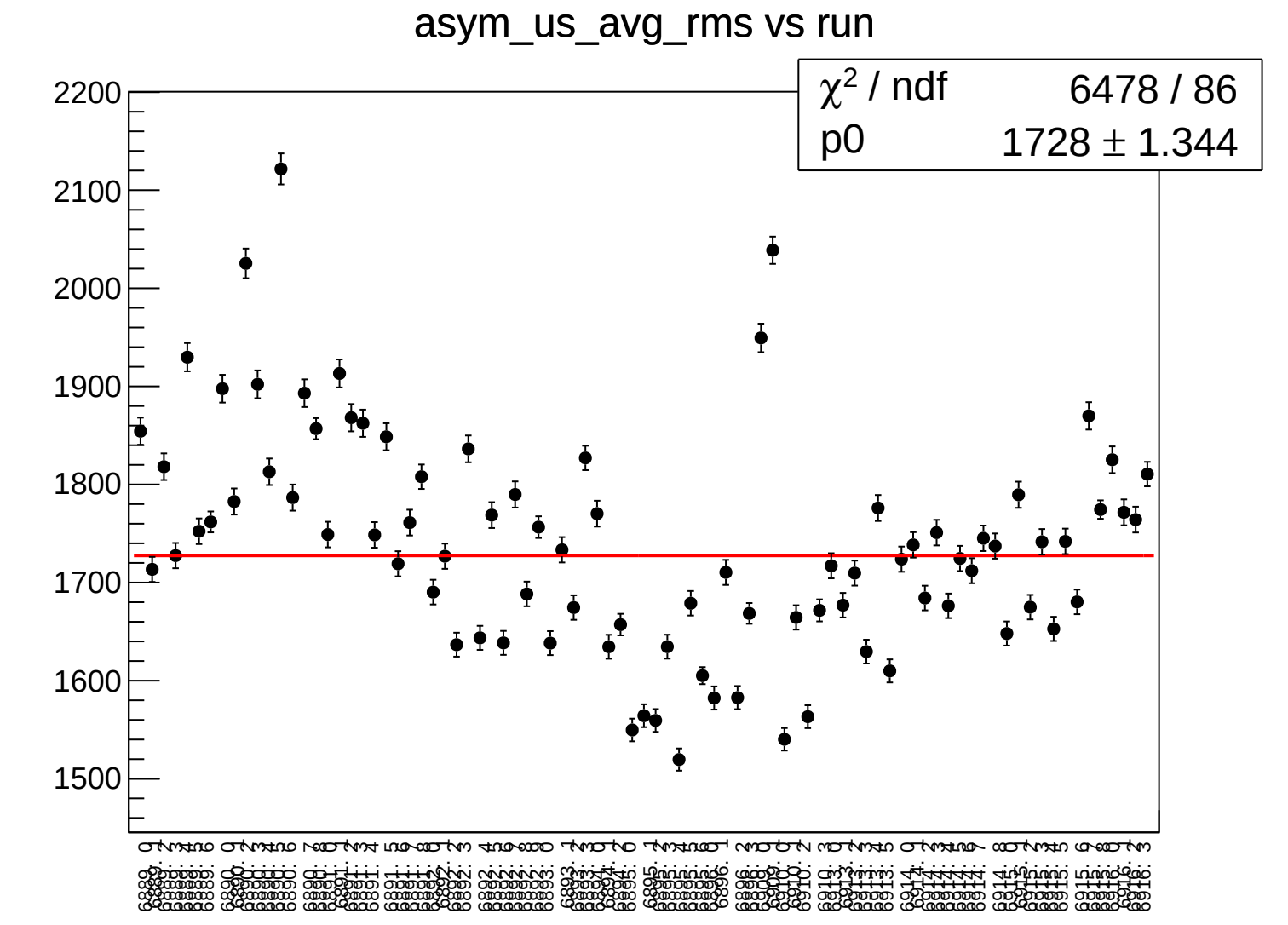

asym_us_avg_correction_mean vs run
χ² / ndf 101.4 / 86
p0 −1817 ± 1668
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −316.3
Std Dev 345.8
3
2
1
0
−1
−2

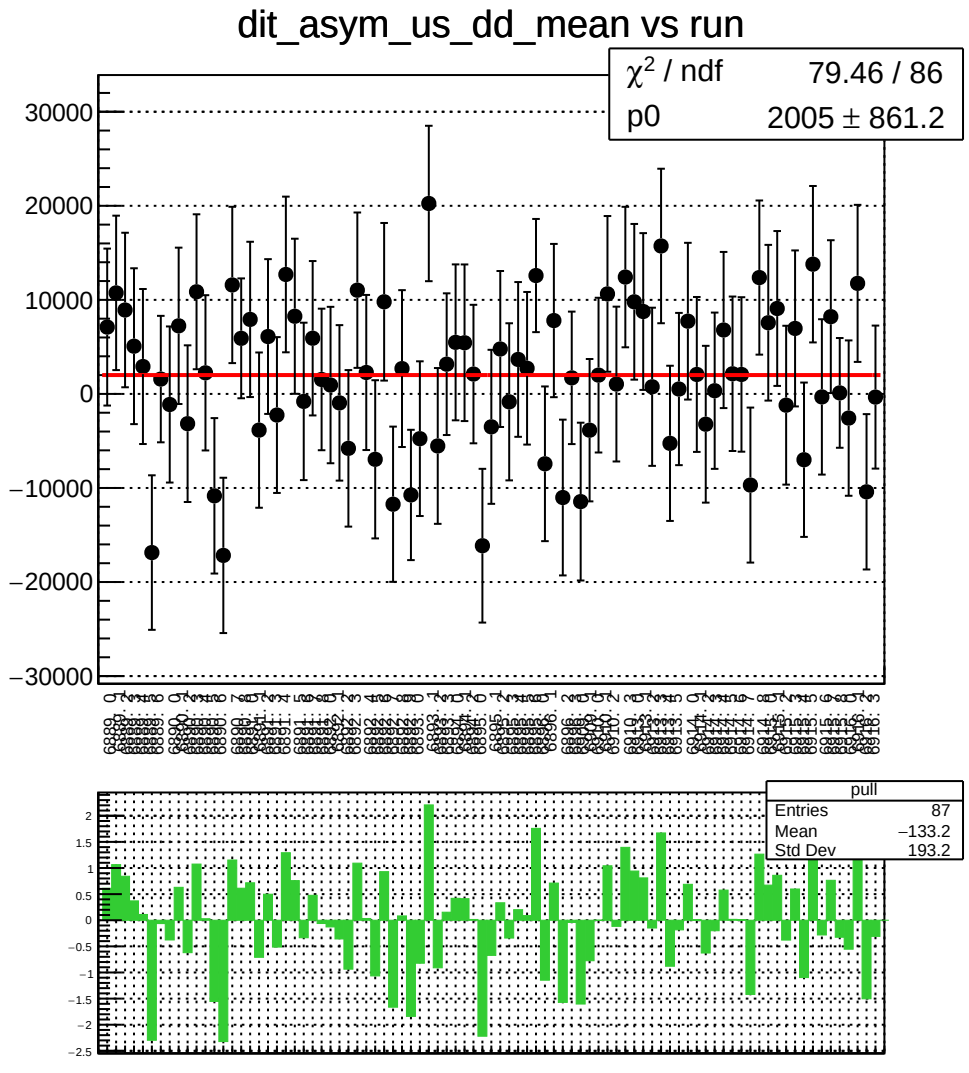

pull1D
Entries 87
Mean 0.009344
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

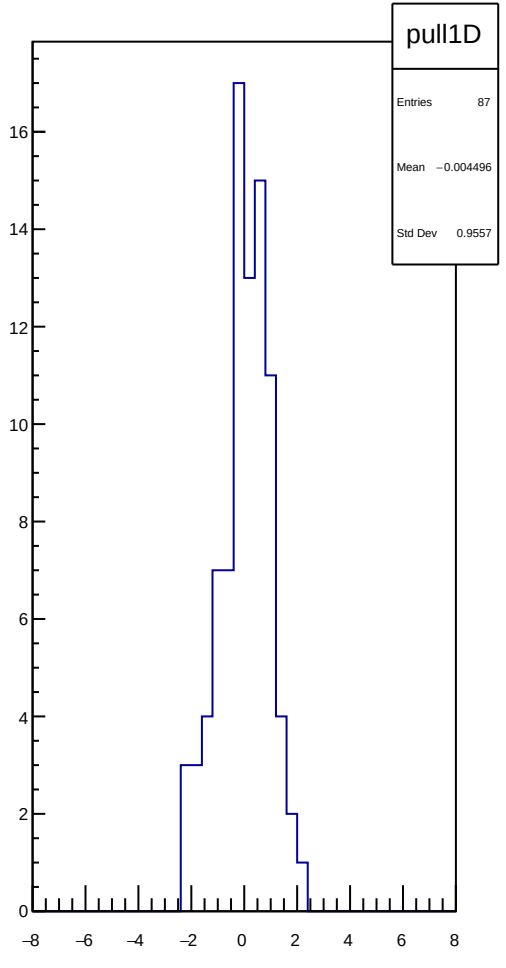

asym_us_avg_correction_rms vs run
χ² / ndf 8973 / 86
p0 1515 ± 1.179
2000
1900
1800
1700
1600
1500
1400
1300

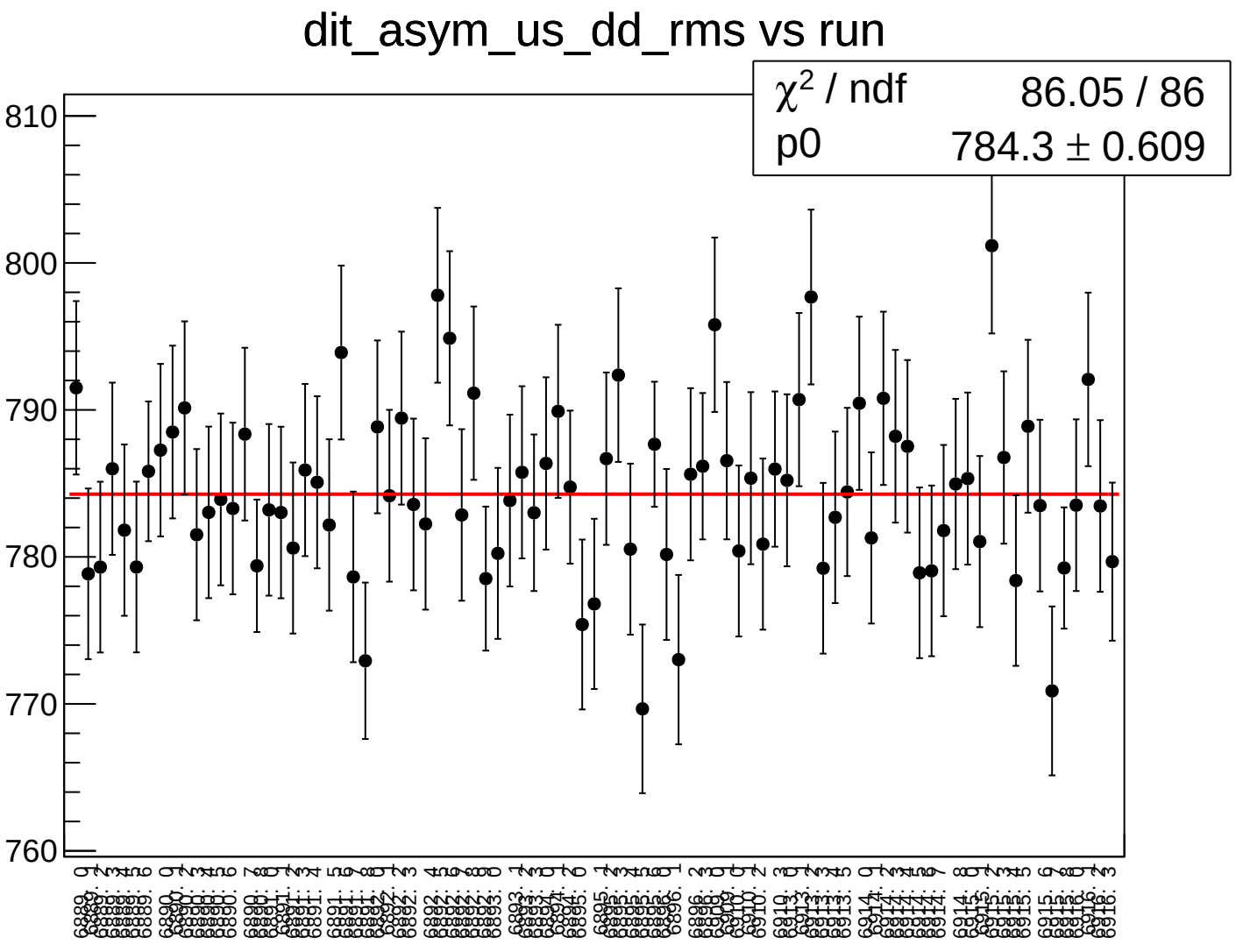

asym_us_avg_mean vs run
χ² / ndf 100.1 / 86
p0 −2223 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −465.7
Std Dev 502.5
2
1
0
−1
−2

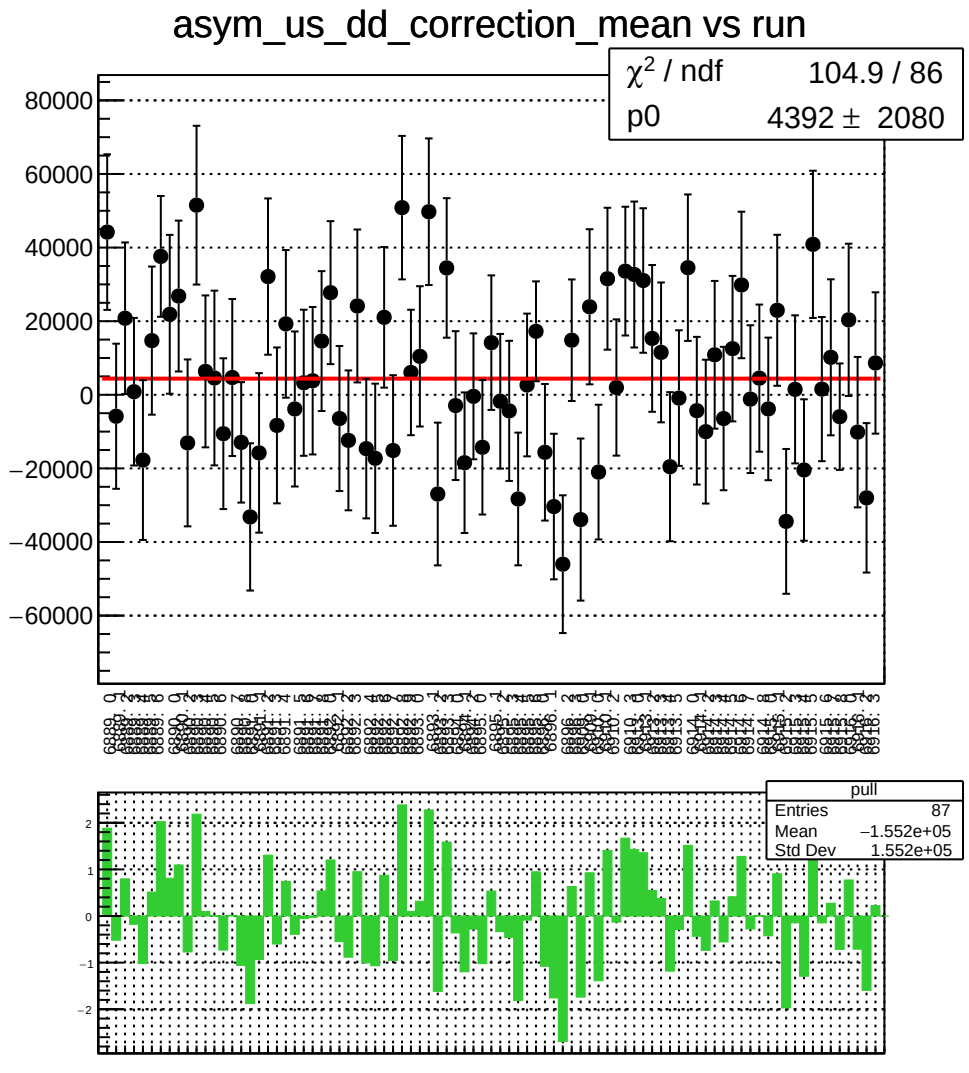

pull1D
Entries 87
Mean −0.006774
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

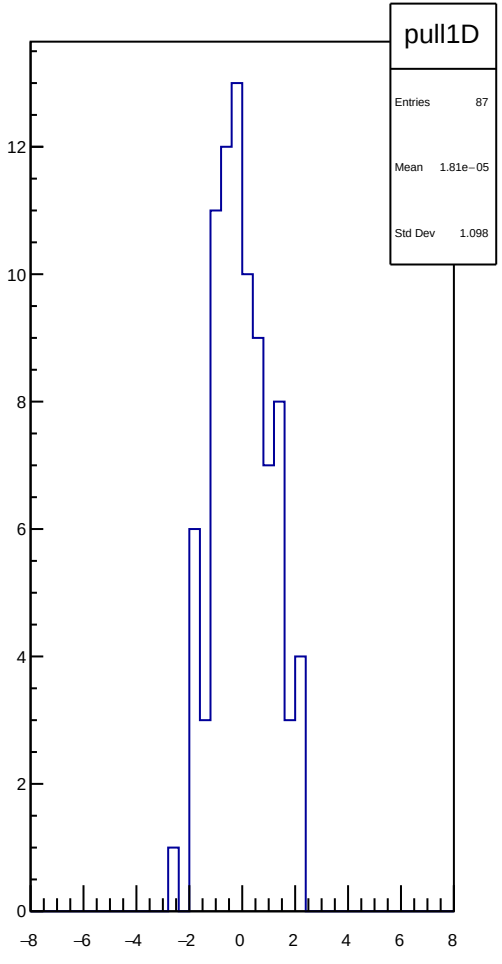

asym_us_avg_rms vs run
χ^2 / ndf 6478 / 86
p0 1728 ± 1.344
2200
2100
2000
1900
1800
1700
1600
1500

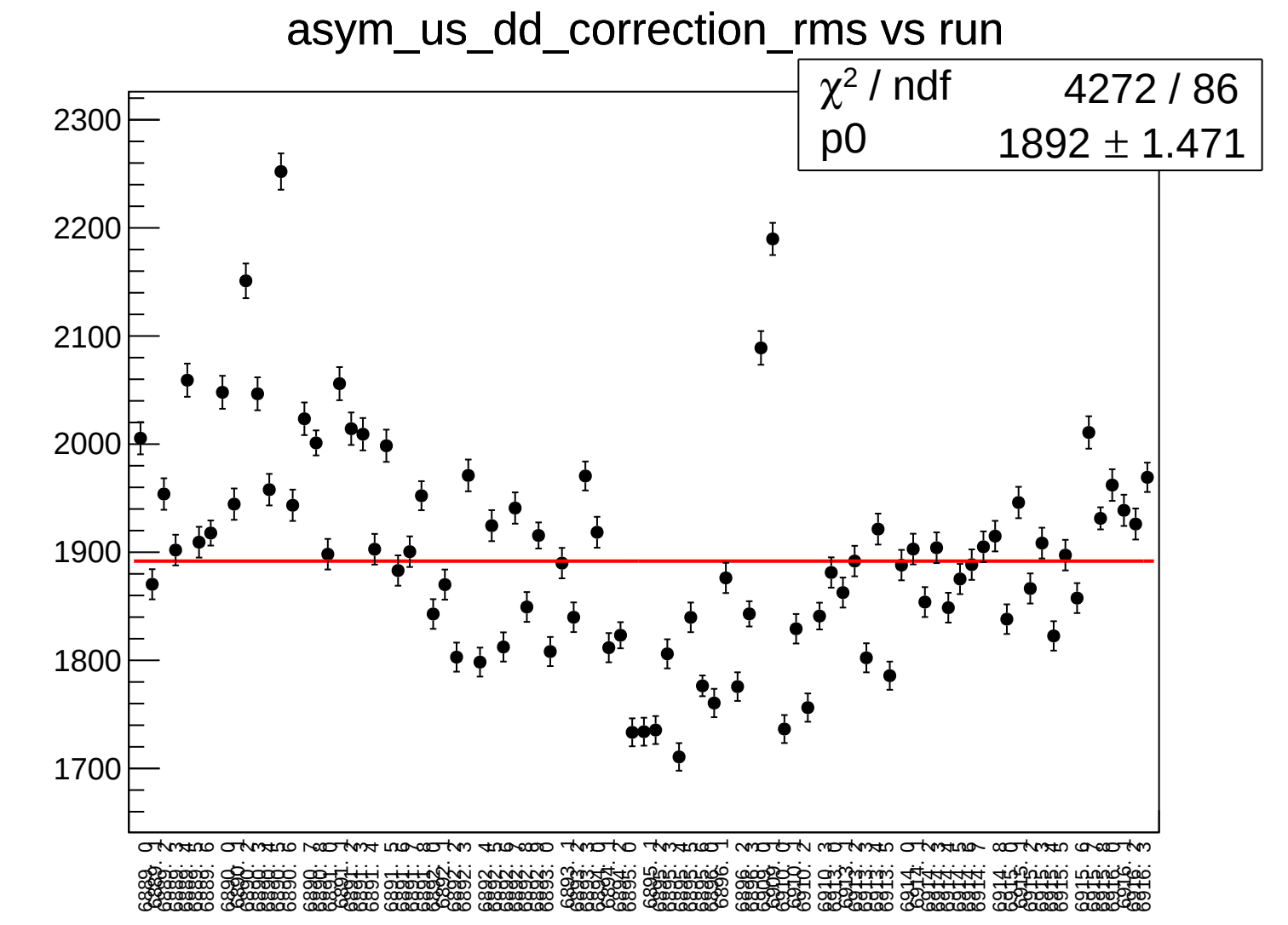

dit_asym_us_dd_mean vs run
χ² / ndf 79.46 / 86
p0 2005 ± 861.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −133.2
Std Dev 193.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

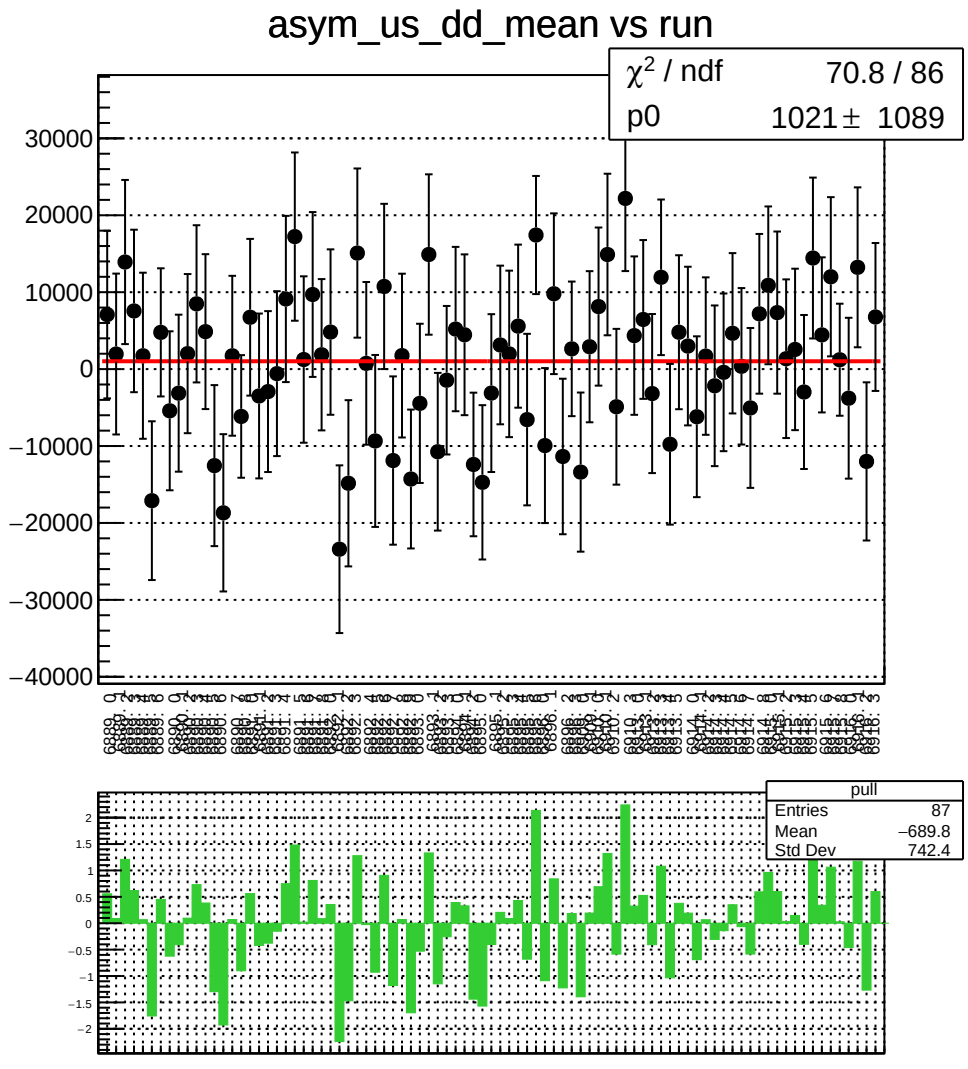

pull1D
Entries 87
Mean −0.004496
Std Dev 0.9557
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

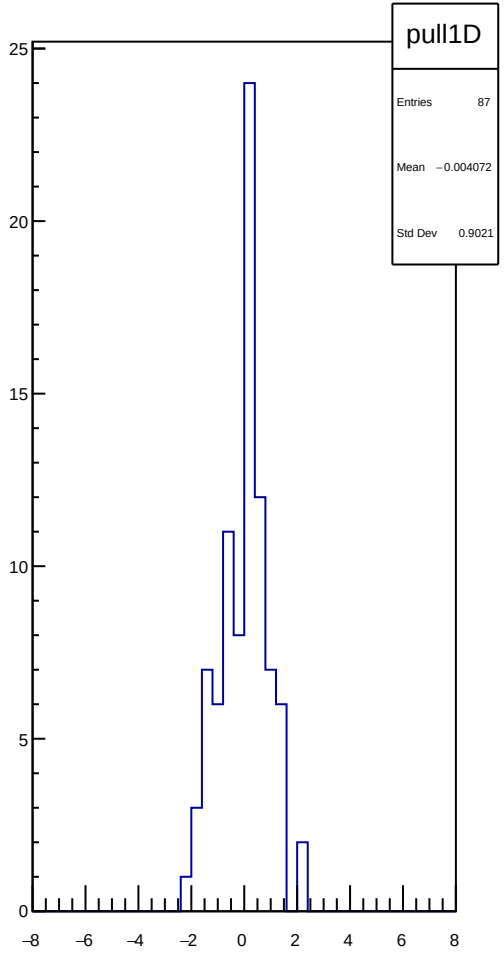

dit_asym_us_dd_rms vs run
χ² / ndf 86.05 / 86
p0 784.3 ± 0.609
810
800
790
780
770
760

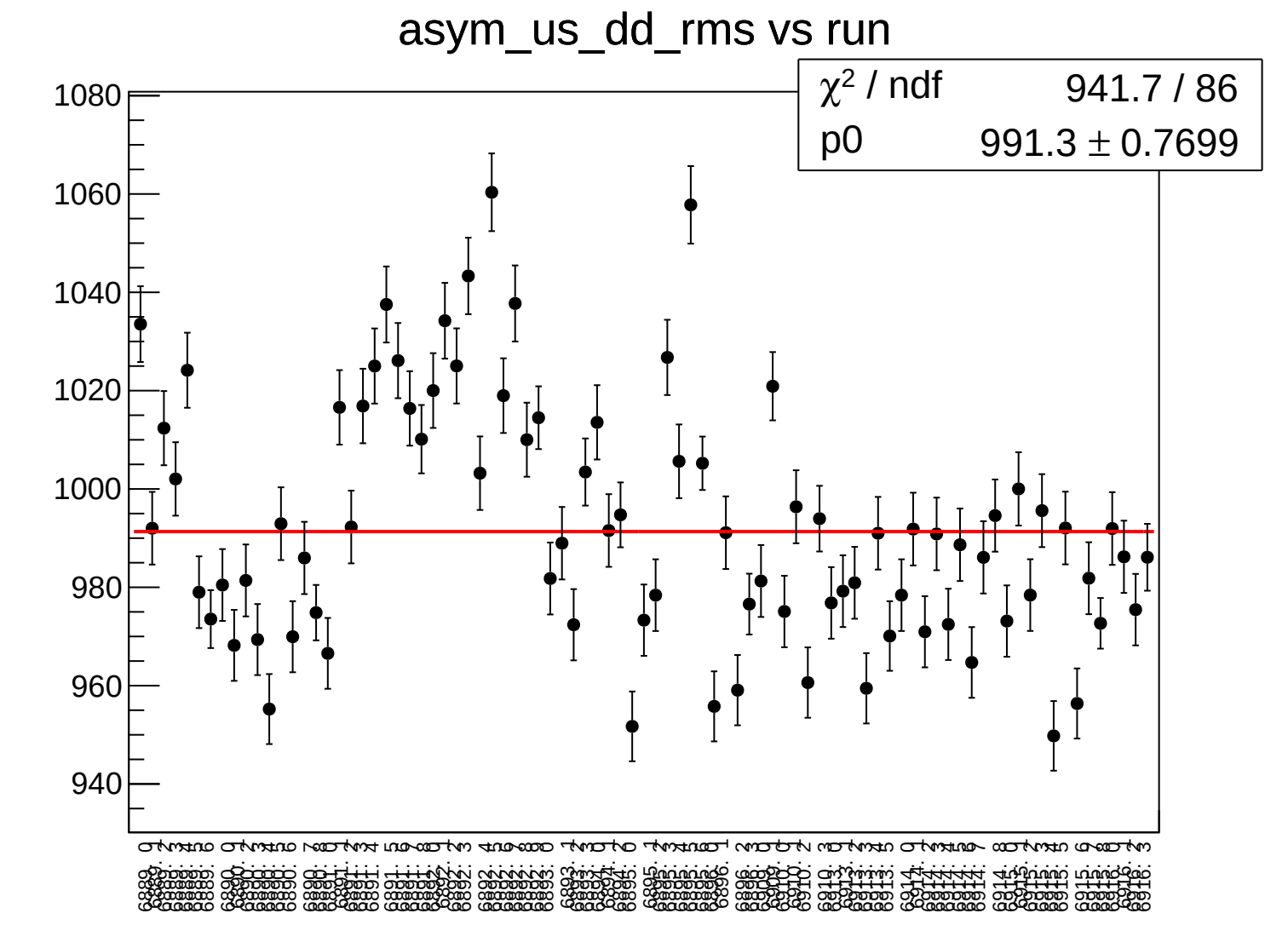

asym_us_dd_correction_mean vs run
χ² / ndf 104.9 / 86
p0 4392 ± 2080
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −1.552e+05
Std Dev 1.552e+05
2
1
0
−1
−2

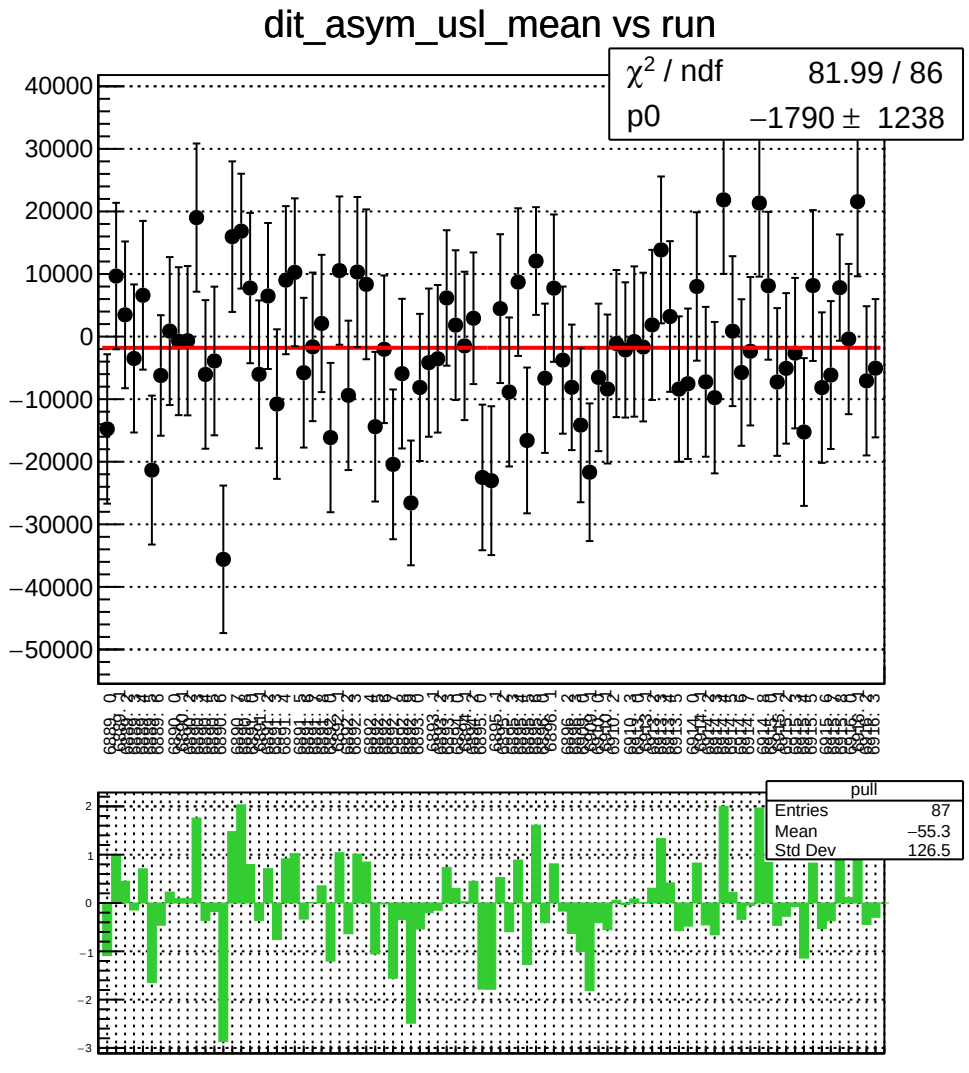

pull1D
Entries 87
Mean 1.81e−05
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

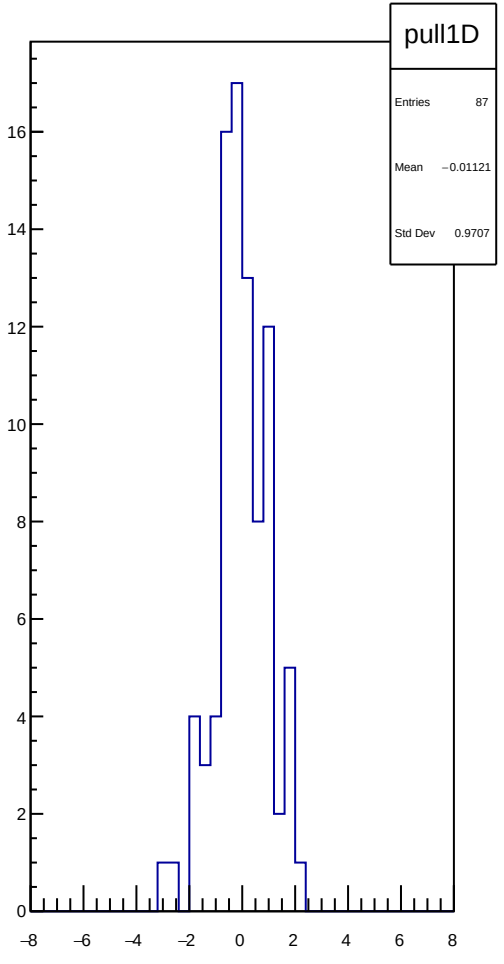

asym_us_dd_correction_rms vs run
χ² / ndf 4272 / 86
p0 1892 ± 1.471
2300
2200
2100
2000
1900
1800
1700

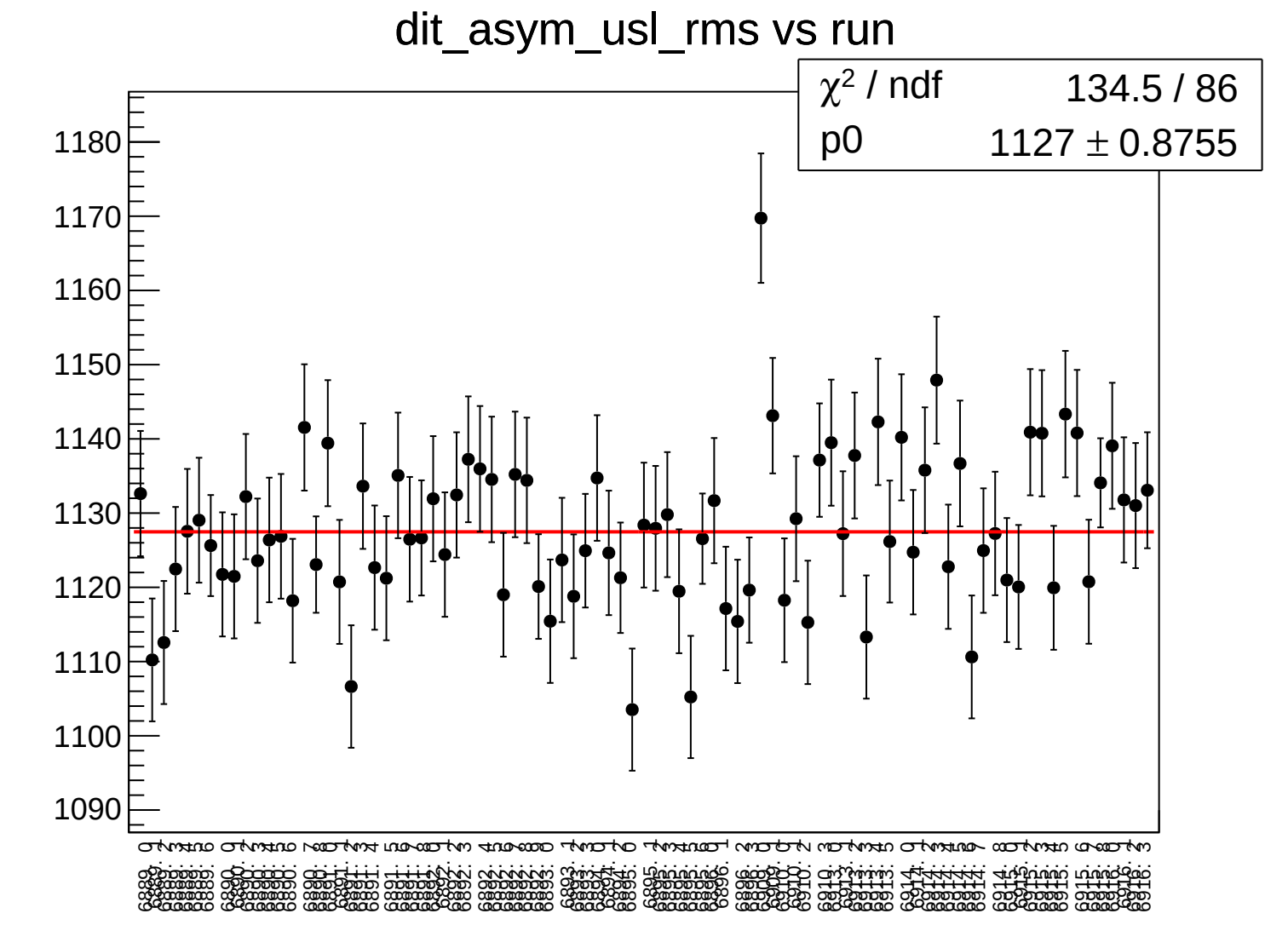

asym_us_dd_mean vs run
χ² / ndf 70.8 / 86
p0 1021 ± 1089
pull
Entries 87
Mean −689.8
Std Dev 742.4

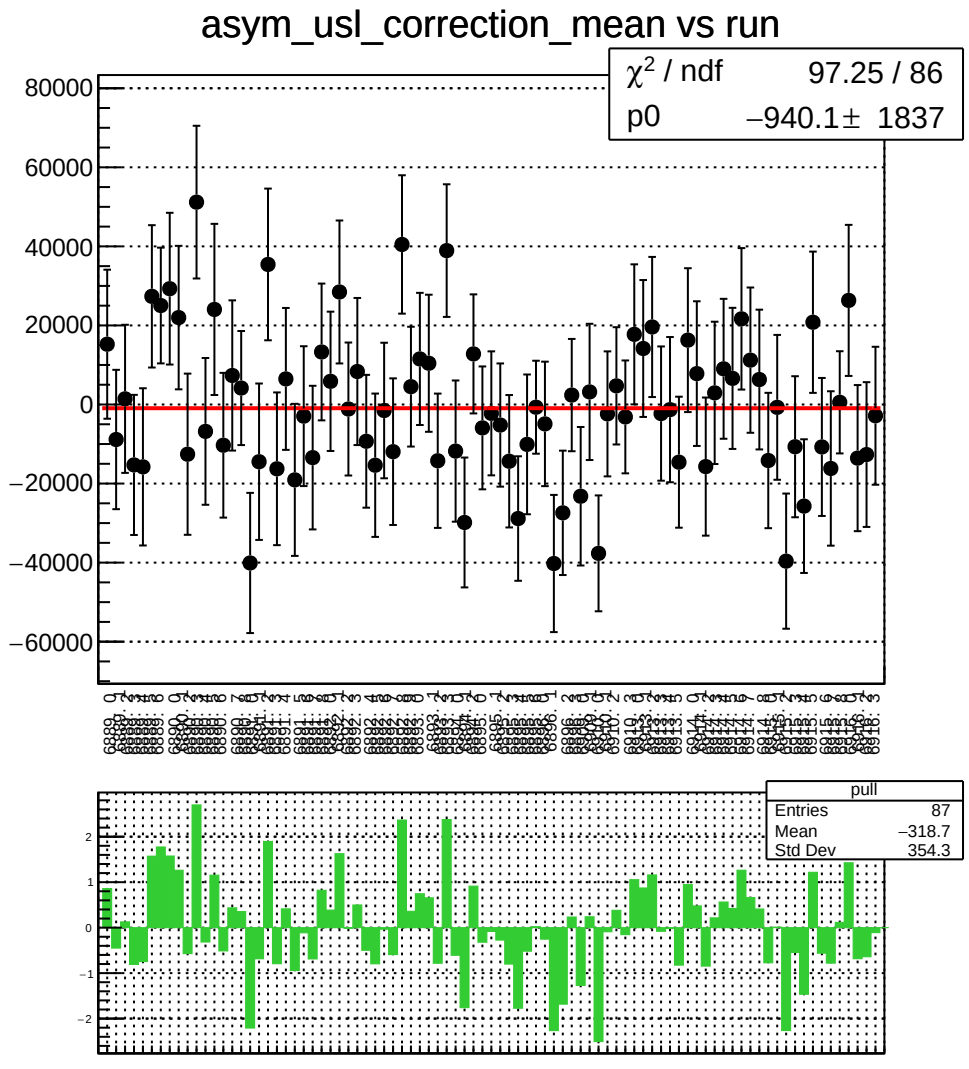

pull1D
Entries 87
Mean −0.004072
Std Dev 0.9021

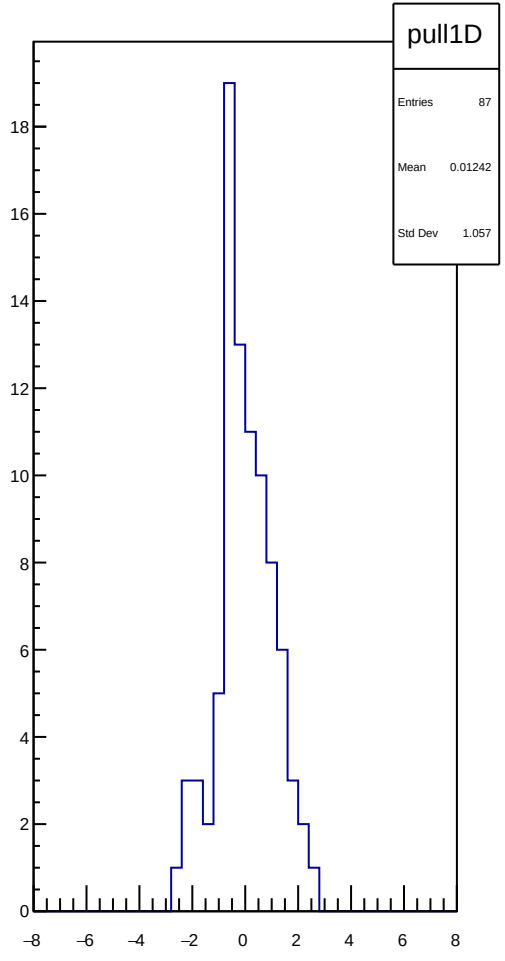

asym_us_dd_rms vs run
χ^2 / ndf 941.7 / 86
p0 991.3 ± 0.7699
1080
1060
1040
1020
1000
980
960
940

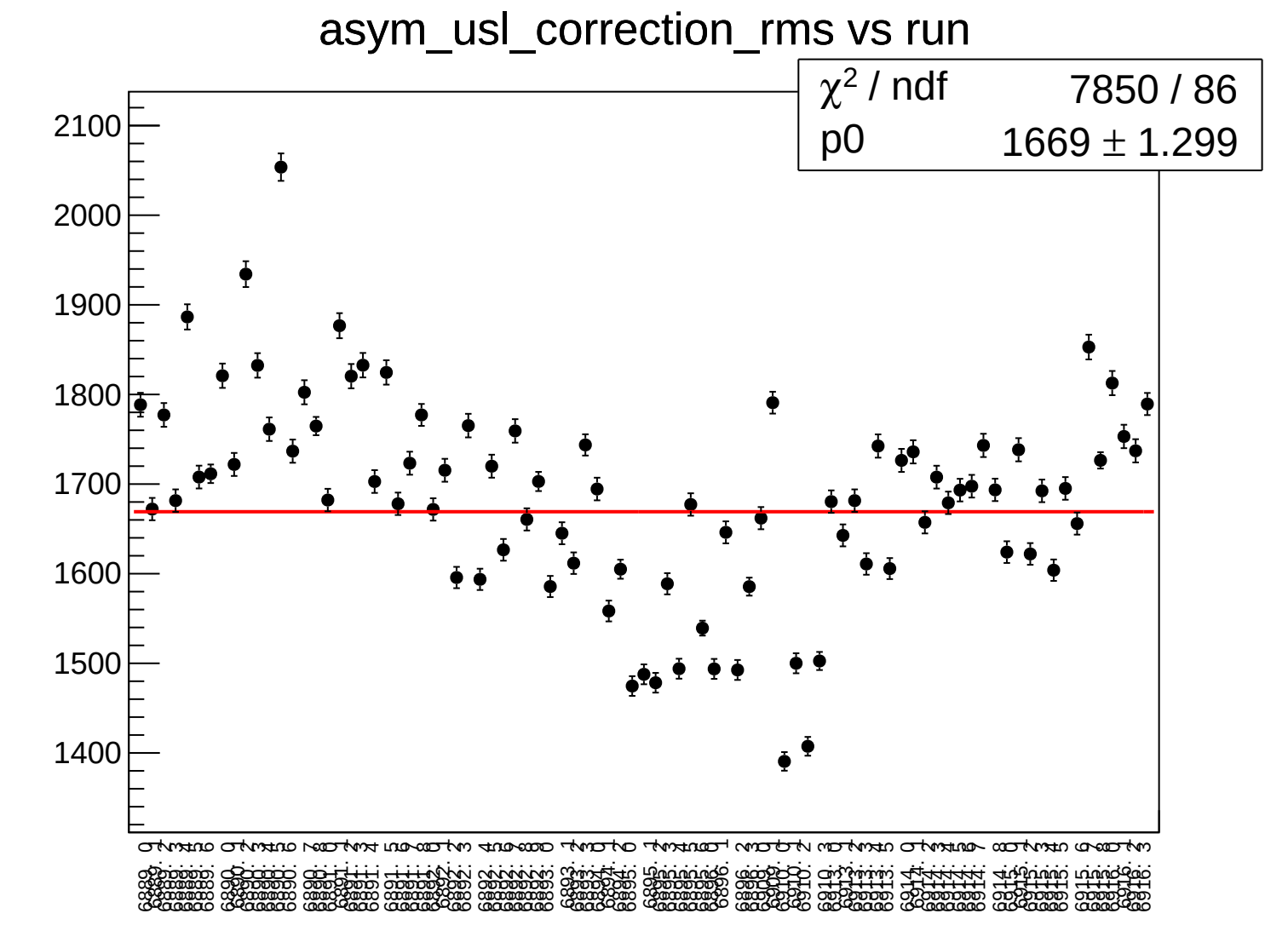

dit_asym_usl_mean vs run
χ² / ndf 81.99 / 86
p0 −1790 ± 1238
pull
Entries 87
Mean −55.3
Std Dev 126.5

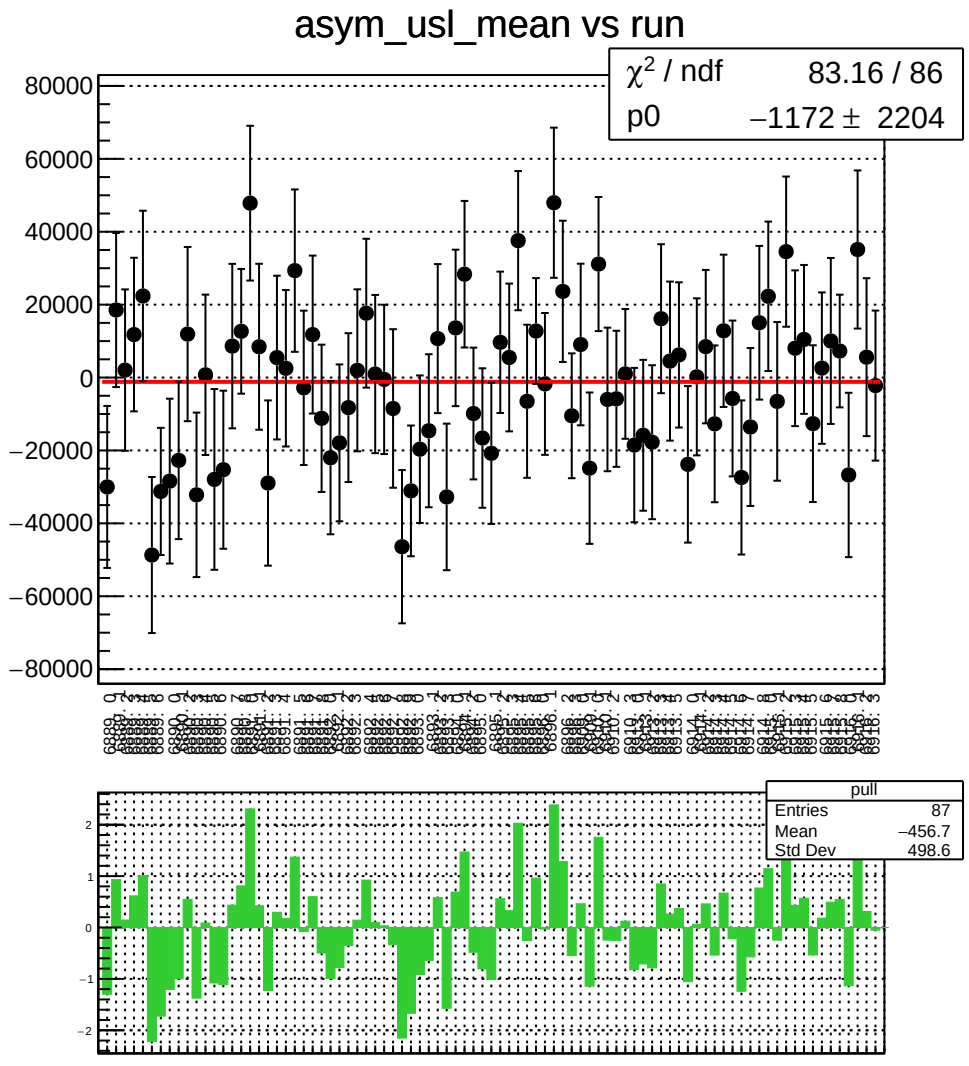

pull1D
Entries 87
Mean −0.01121
Std Dev 0.9707

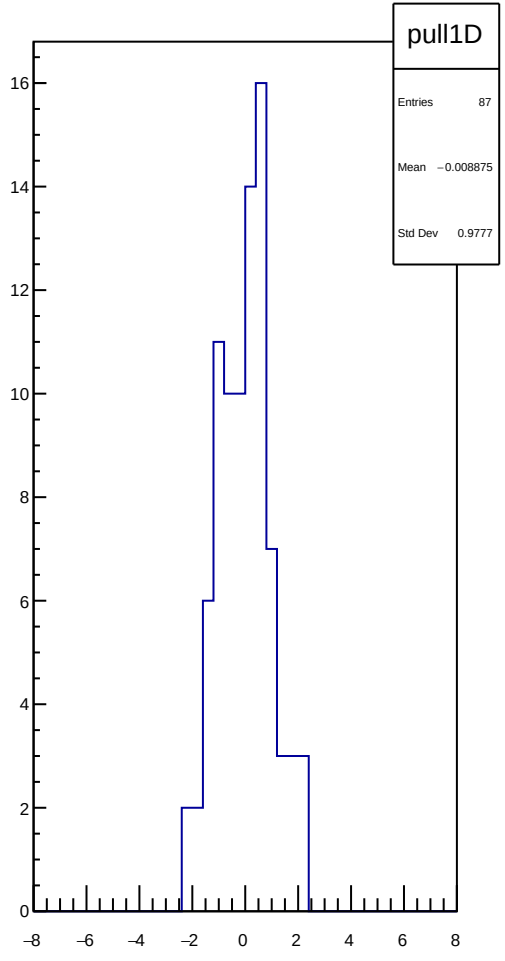

dit_asym_usl_rms vs run
χ² / ndf 134.5 / 86
p0 1127 ± 0.8755
1180
1170
1160
1150
1140
1130
1120
1110
1100
1090

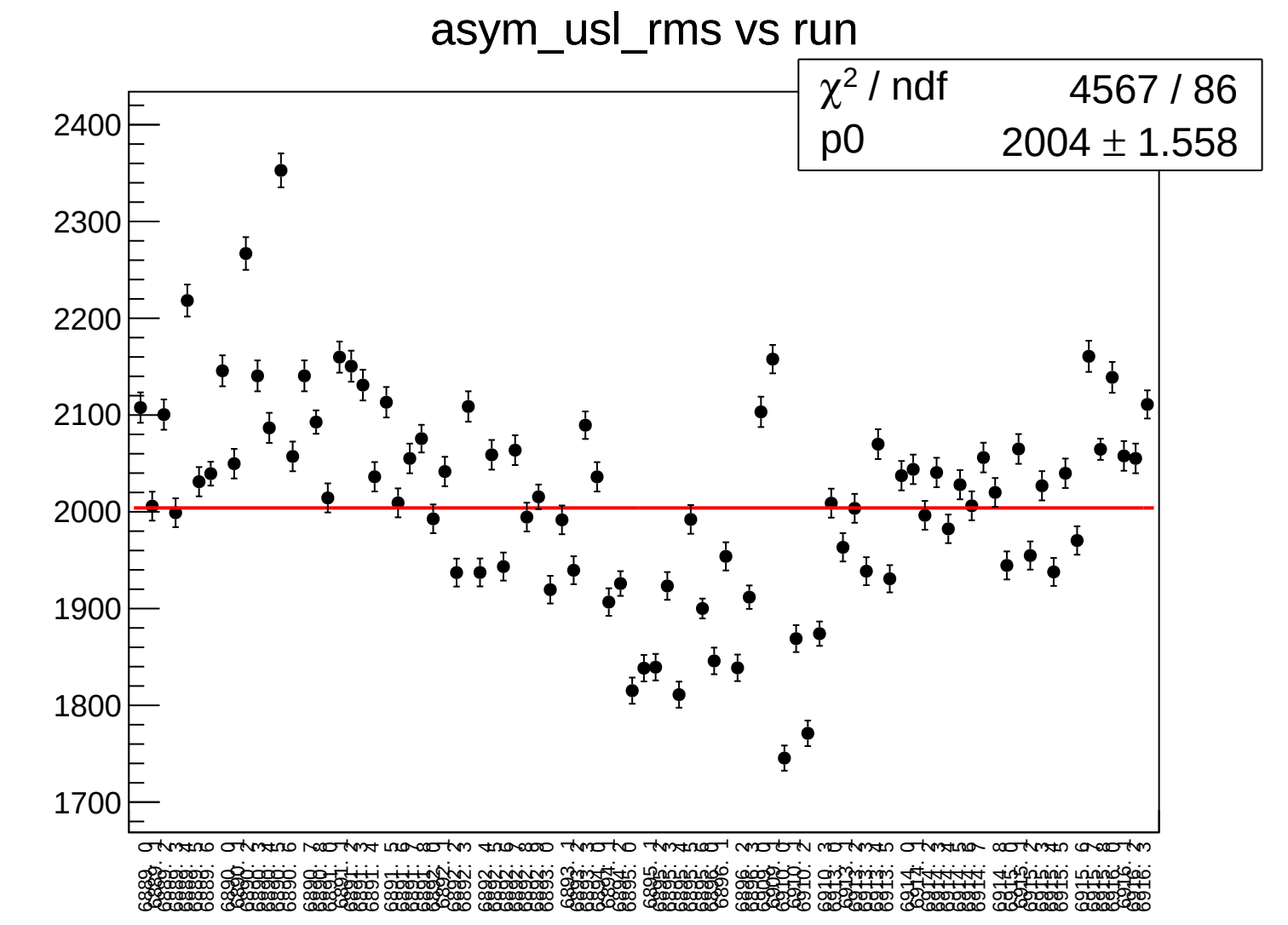

asym_usl_correction_mean vs run
χ² / ndf 97.25 / 86
p0 −940.1± 1837
pull
Entries 87
Mean −318.7
Std Dev 354.3

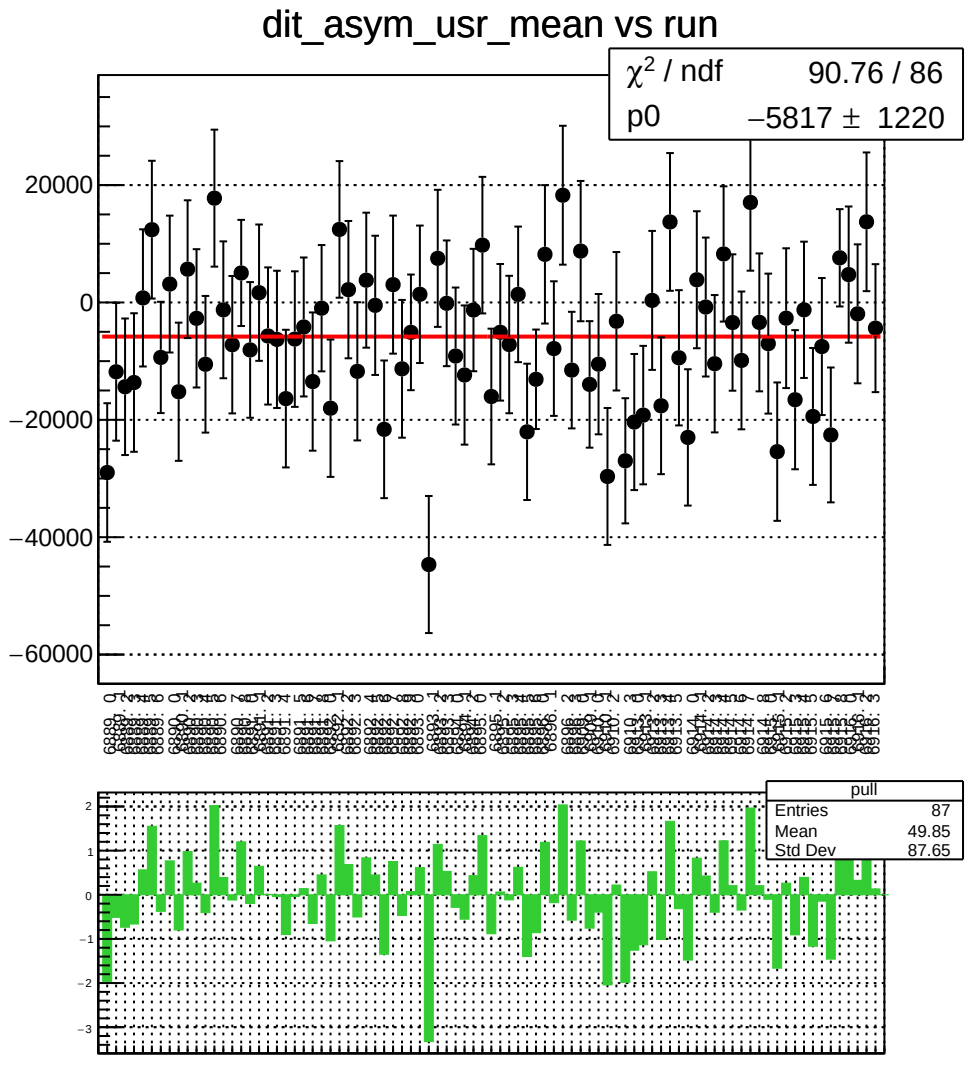

pull1D
Entries 87
Mean 0.01242
Std Dev 1.057

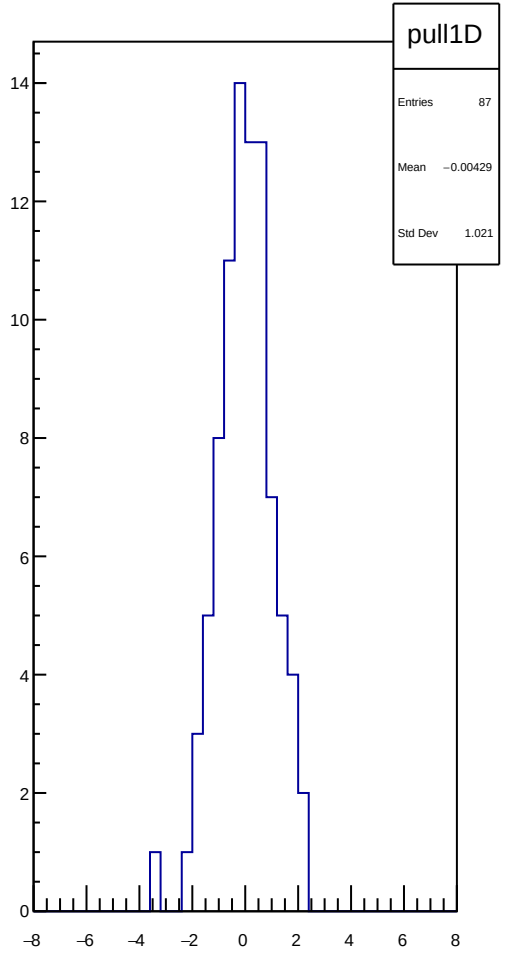

asym_usl_correction_rms vs run
χ² / ndf 7850 / 86
p0 1669 ± 1.299
2100
2000
1900
1800
1700
1600
1500
1400

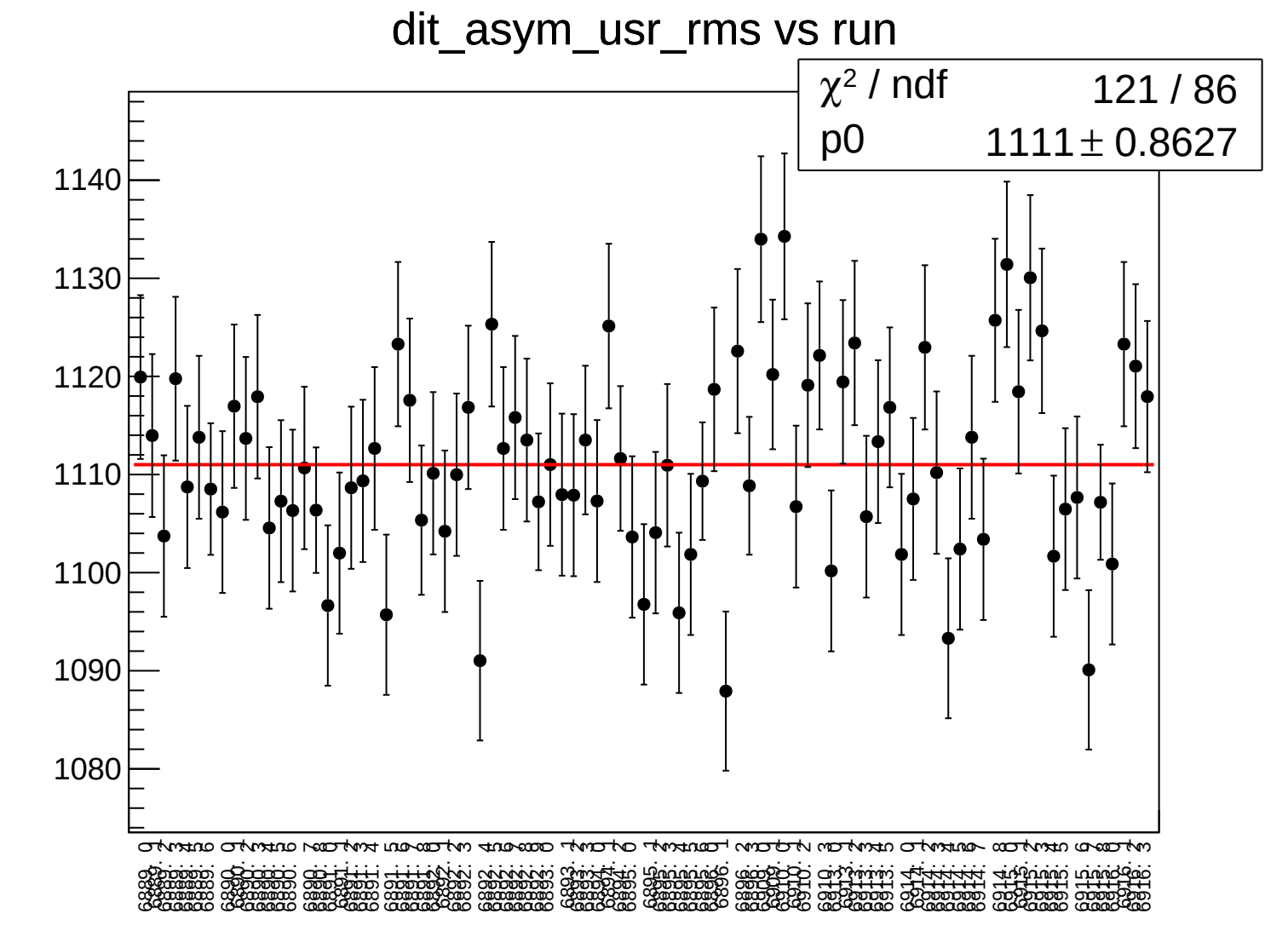

asym_usl_mean vs run
χ² / ndf 83.16 / 86
p0 −1172 ± 2204
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −456.7
Std Dev 498.6
2
1
0
−1
−2

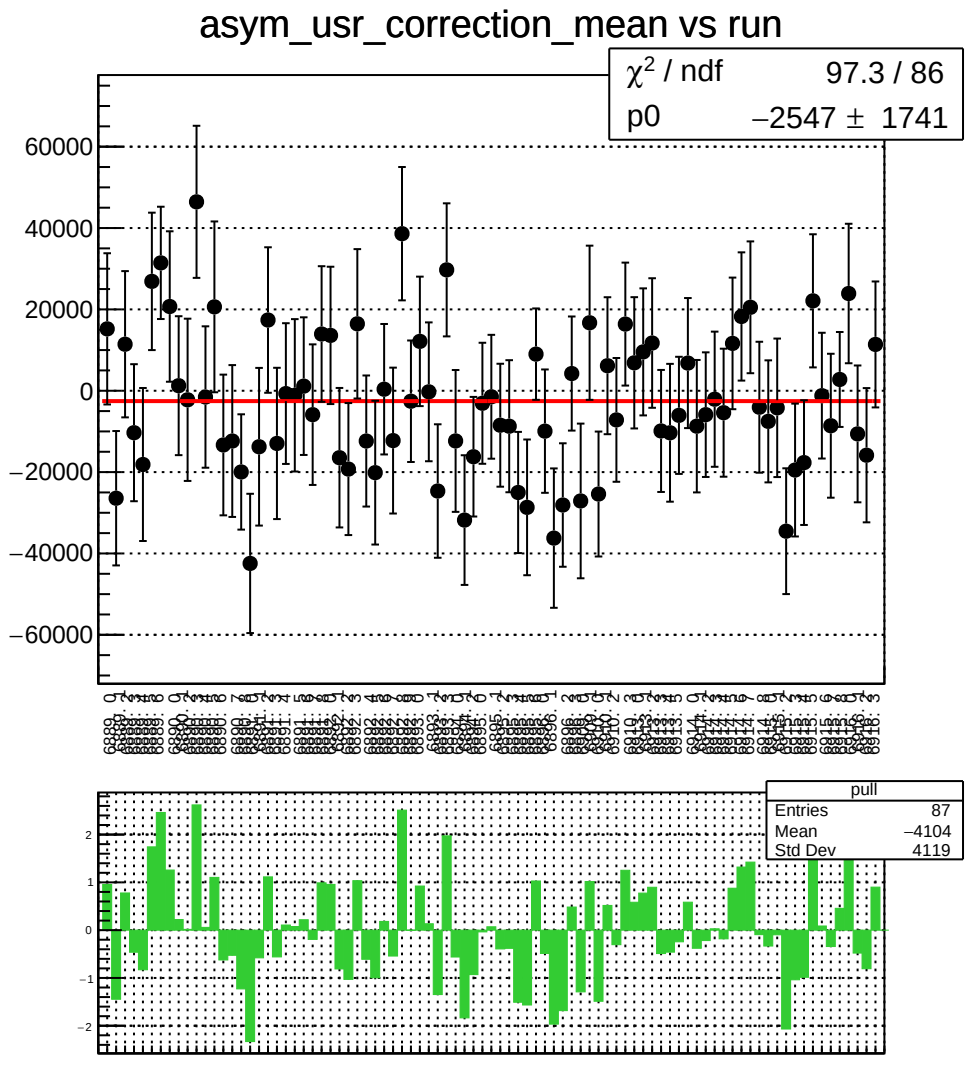

pull1D
Entries 87
Mean −0.008875
Std Dev 0.9777
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

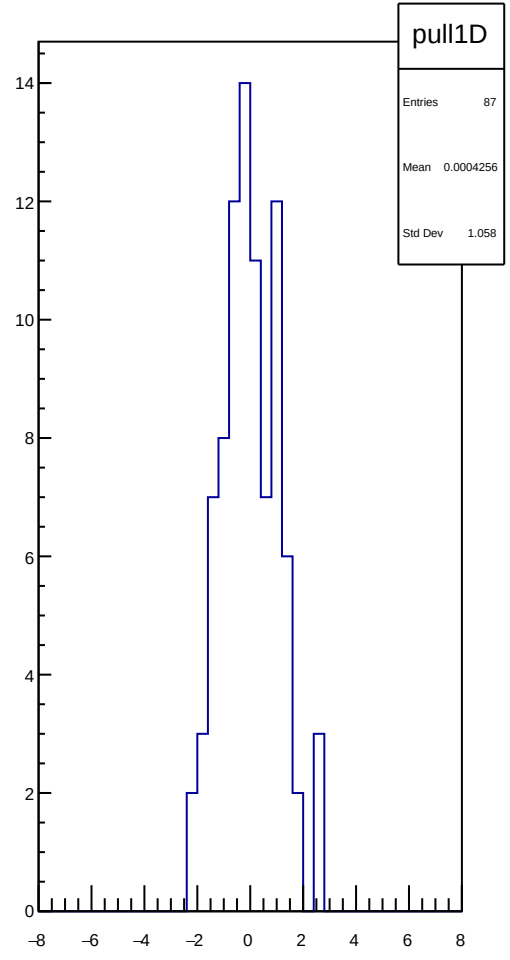

asym_usl_rms vs run
χ^2 / ndf 4567 / 86
p0 2004 ± 1.558
2400
2300
2200
2100
2000
1900
1800
1700

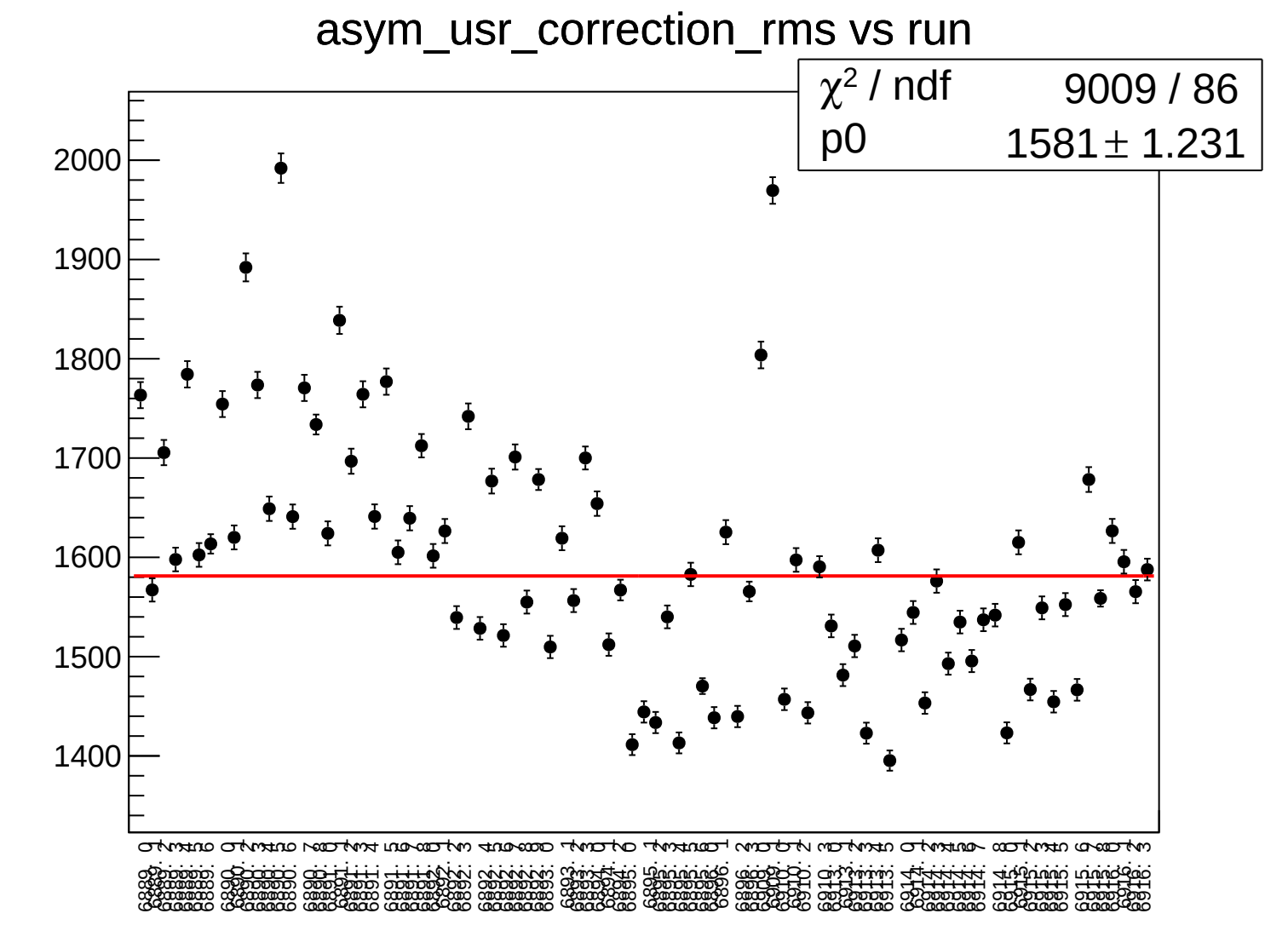

dit_asym_usr_mean vs run
χ^2 / ndf 90.76 / 86
p0 −5817 ± 1220
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 49.85
Std Dev 87.65
2
1
0
−1
−2
−3

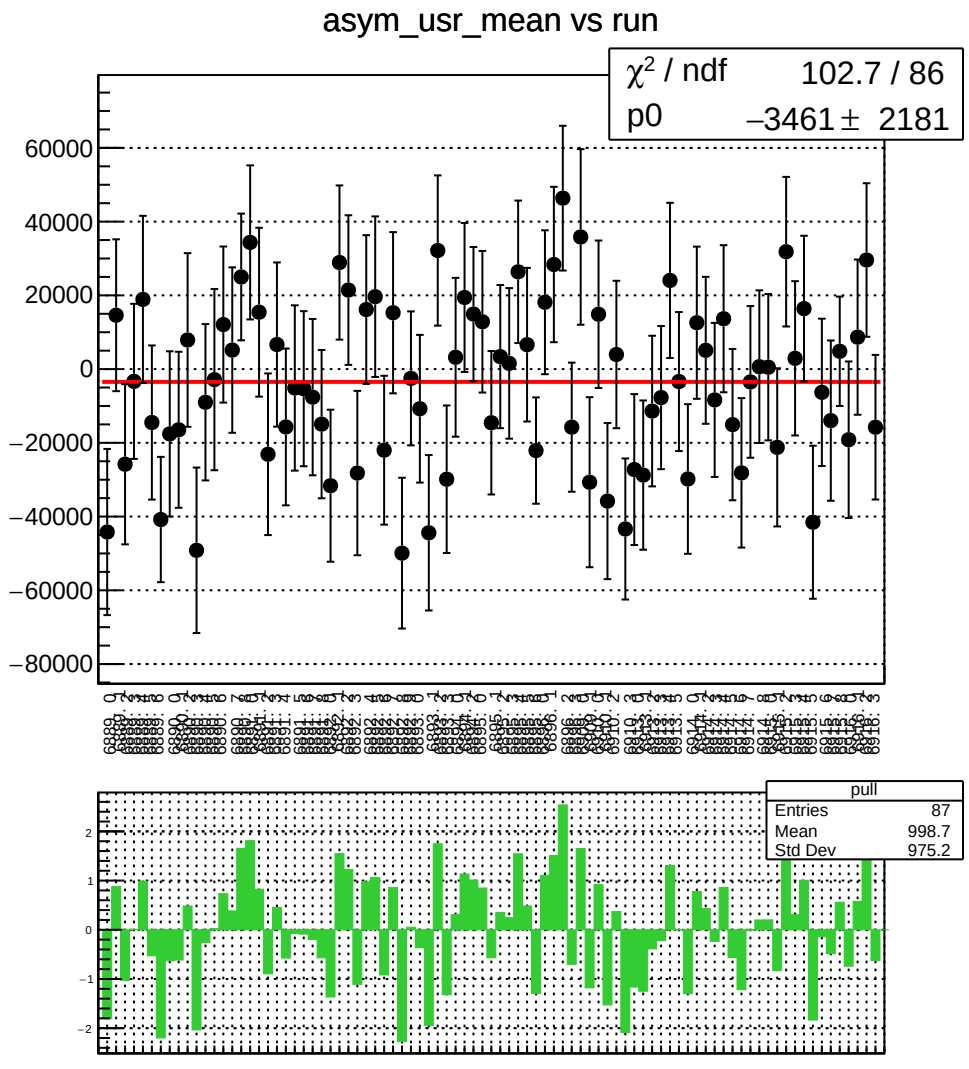

pull1D
Entries 87
Mean −0.00429
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

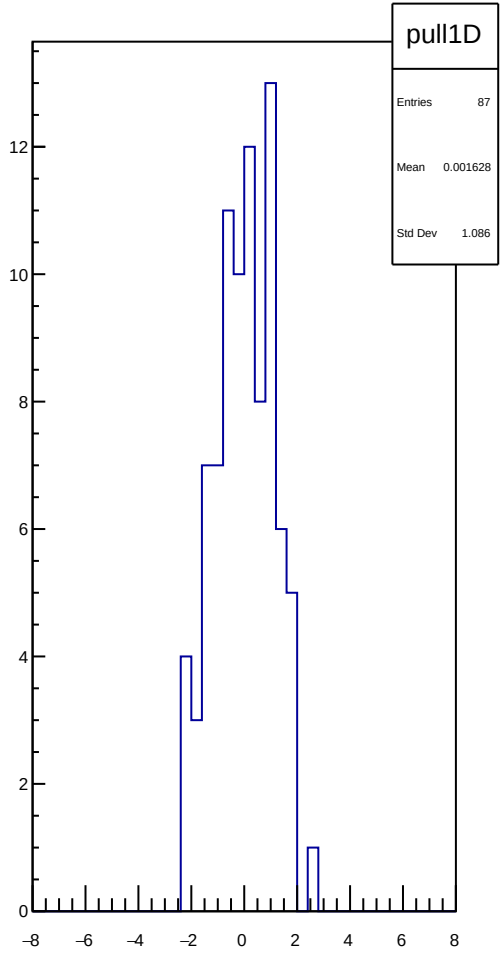

dit_asym_usr_rms vs run
χ² / ndf 121 / 86
p0 1111 ± 0.8627
1140
1130
1120
1110
1100
1090
1080

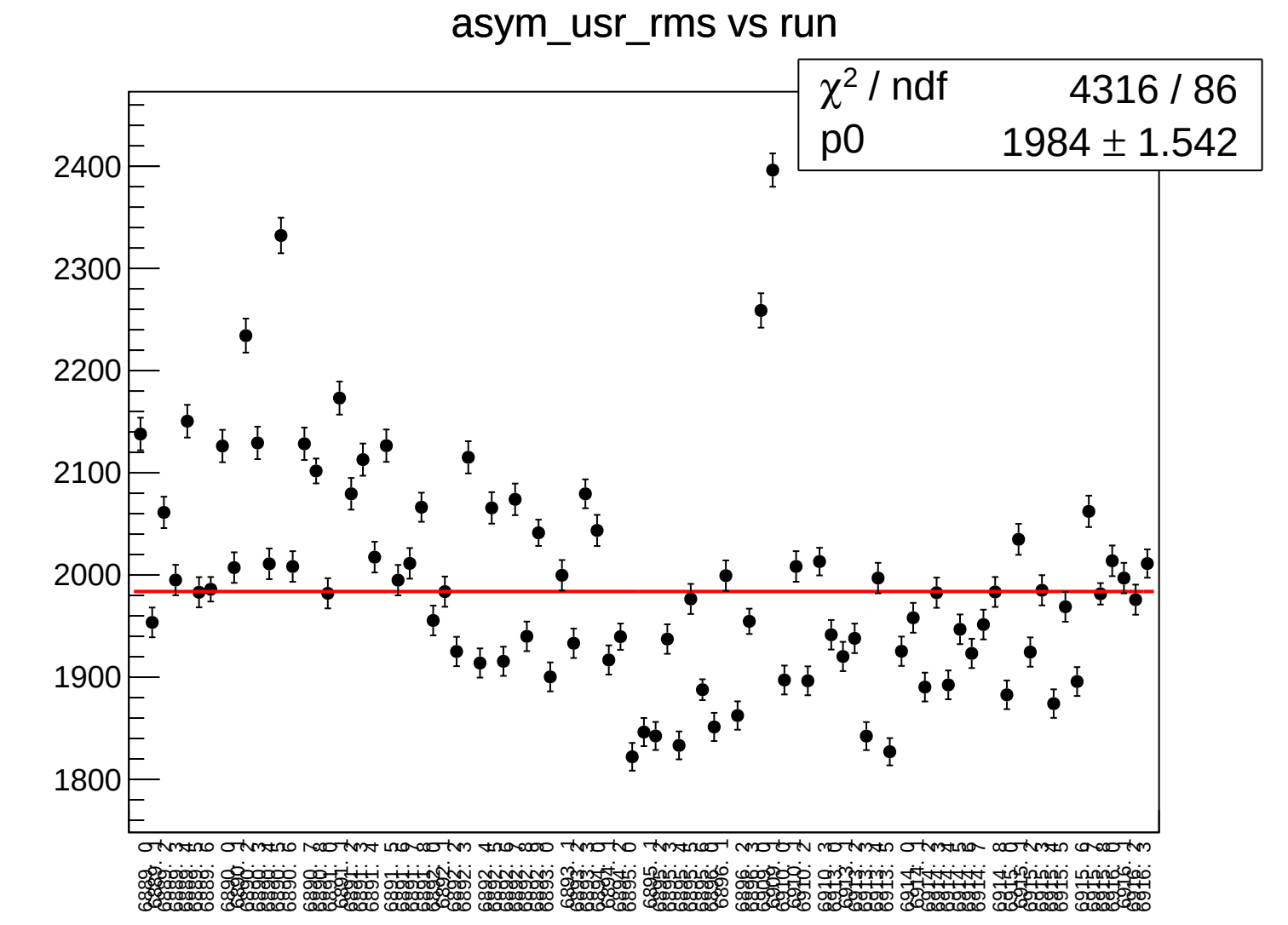

asym_usr_correction_mean vs run
χ² / ndf 97.3 / 86
p0 −2547 ± 1741
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −4104
Std Dev 4119
2
1
0
−1
−2

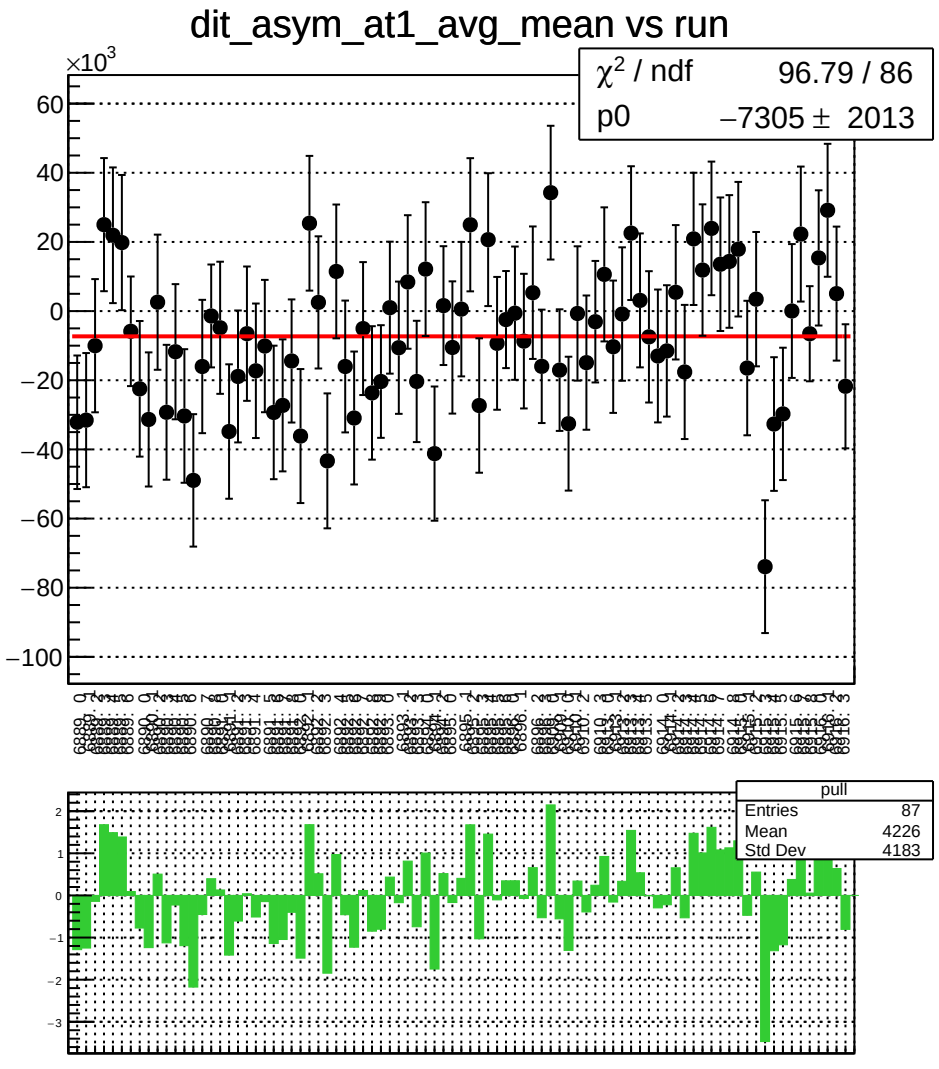

pull1D
Entries 87
Mean 0.0004256
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

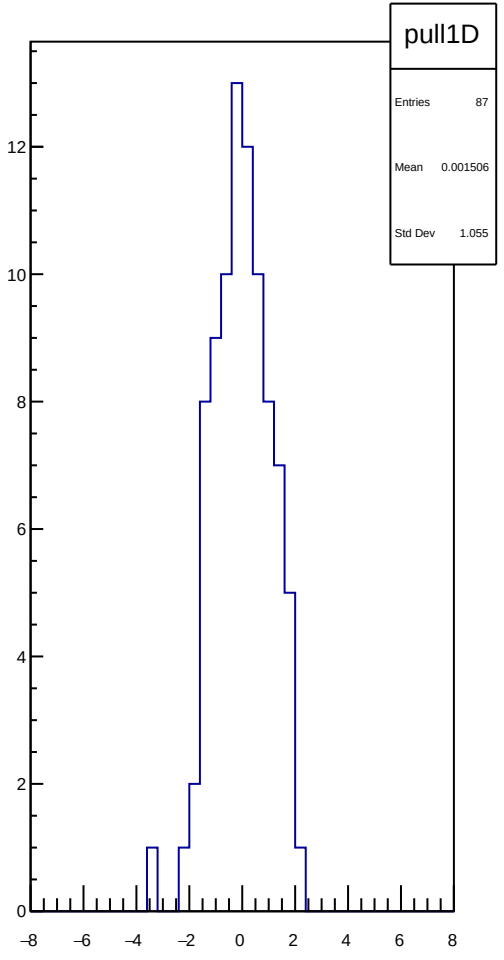

asym_usr_correction_rms vs run
χ² / ndf 9009 / 86
p0 1581 ± 1.231
2000
1900
1800
1700
1600
1500
1400

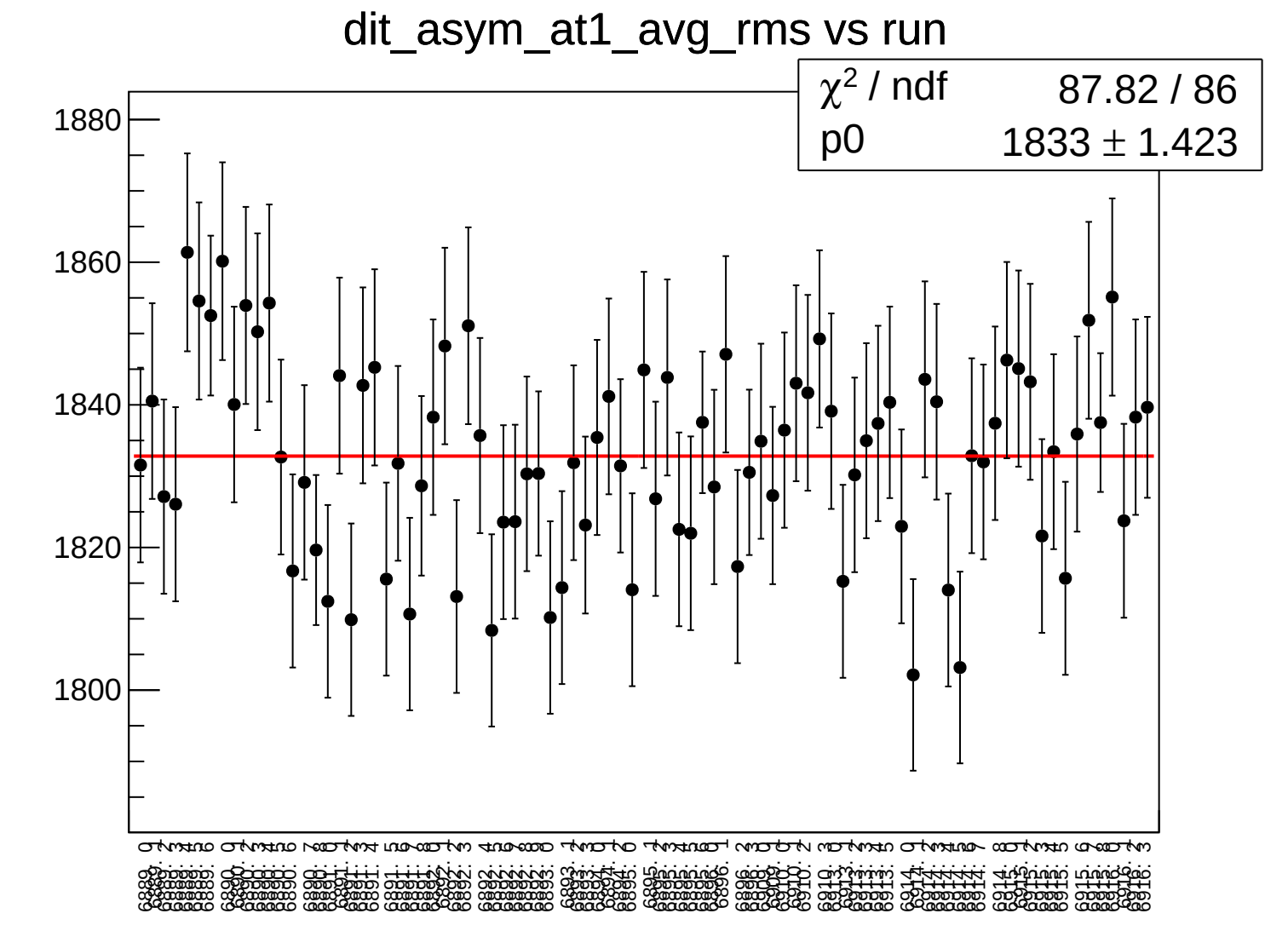

asym_usr_mean vs run
χ² / ndf 102.7 / 86
p0 −3461 ± 2181
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 998.7
Std Dev 975.2
2
1
0
−1
−2

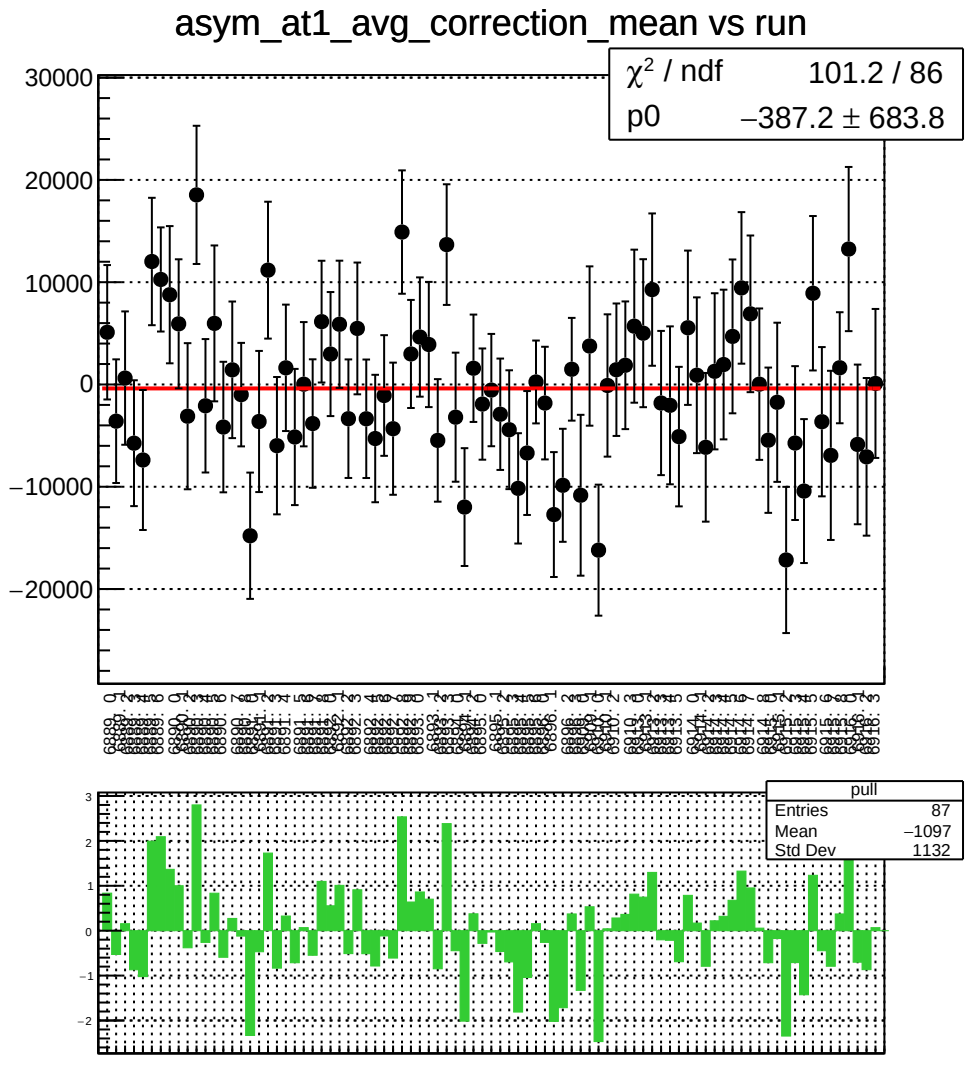

pull1D
Entries 87
Mean 0.001628
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

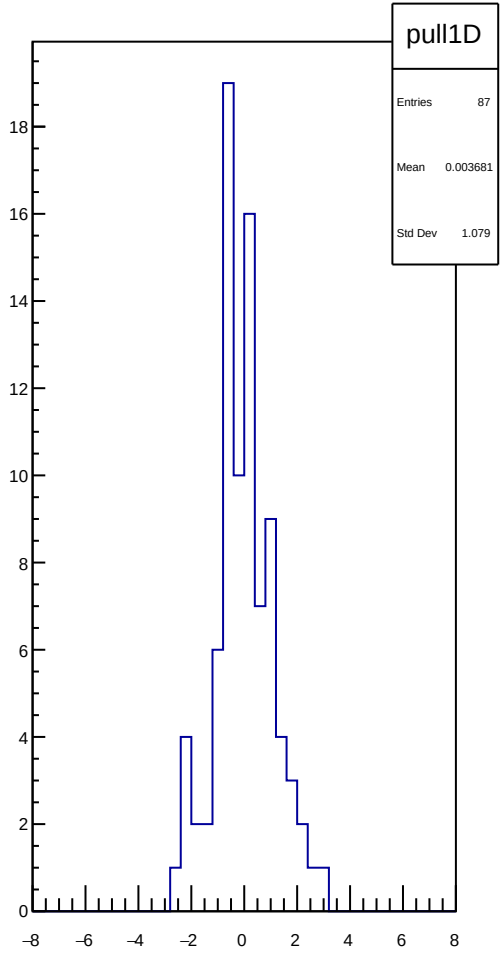

asym_usr_rms vs run
χ² / ndf 4316 / 86
p0 1984 ± 1.542
2400
2300
2200
2100
2000
1900
1800

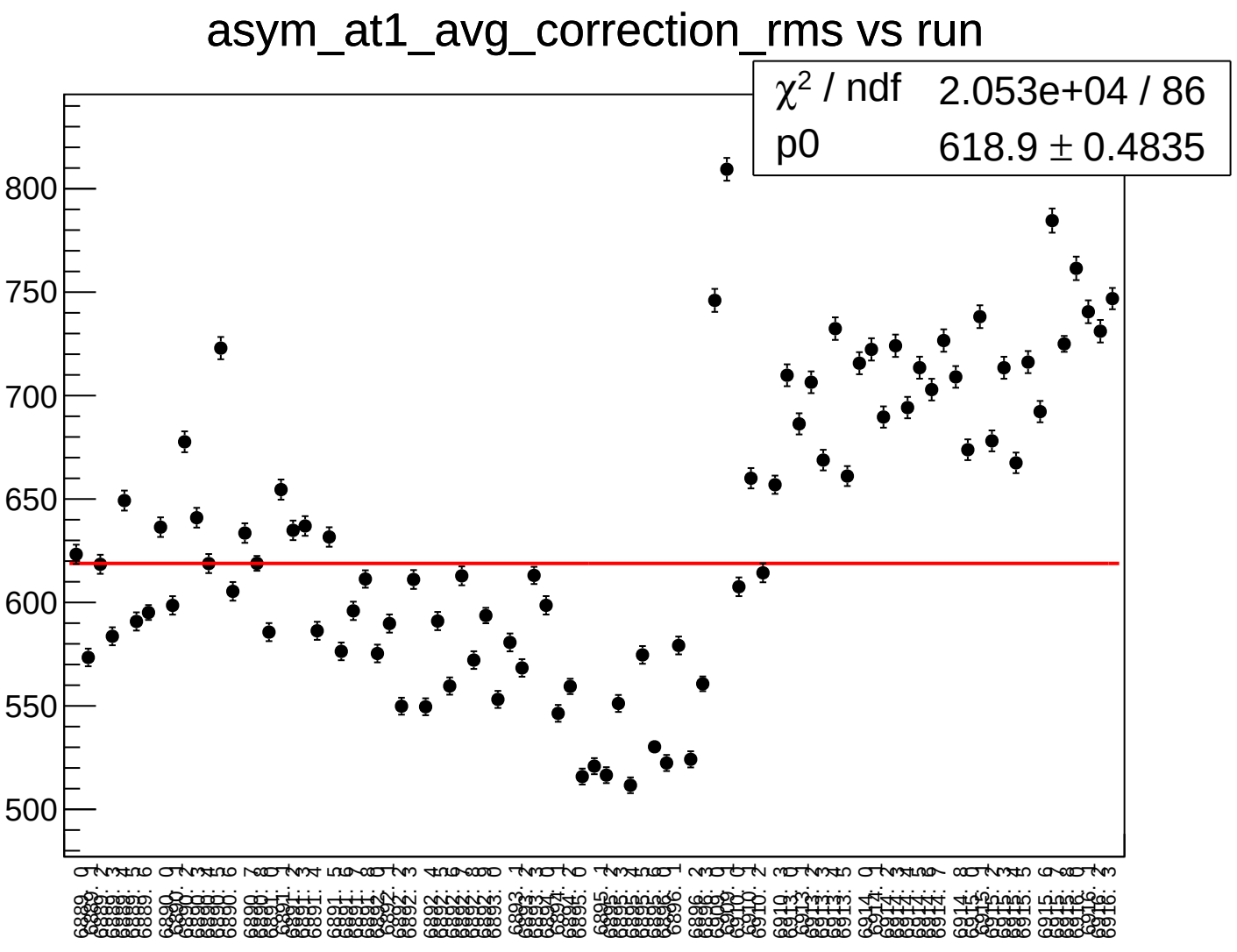

dit_asym_at1_avg_mean vs run
×10^3
χ² / ndf 96.79 / 86
p0 −7305 ± 2013
pull
Entries 87
Mean 4226
Std Dev 4183

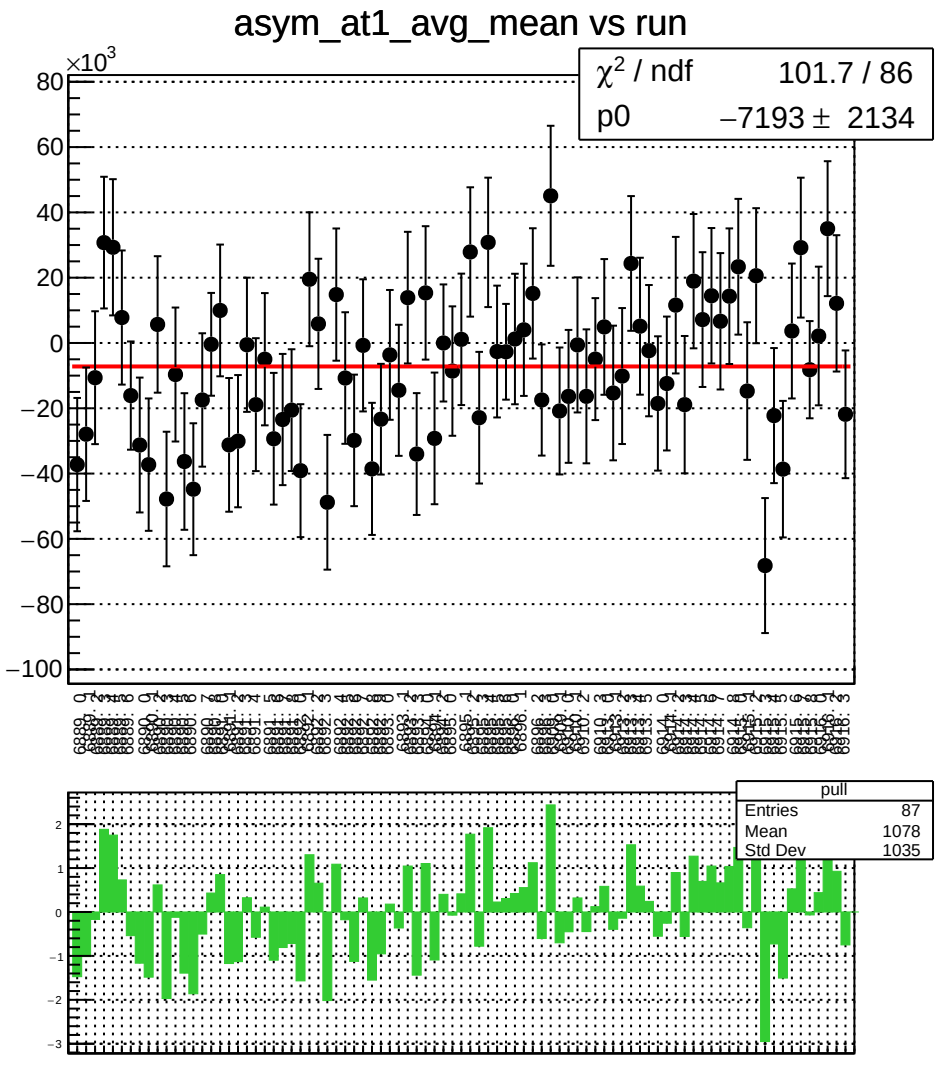

pull1D
Entries 87
Mean 0.001506
Std Dev 1.055

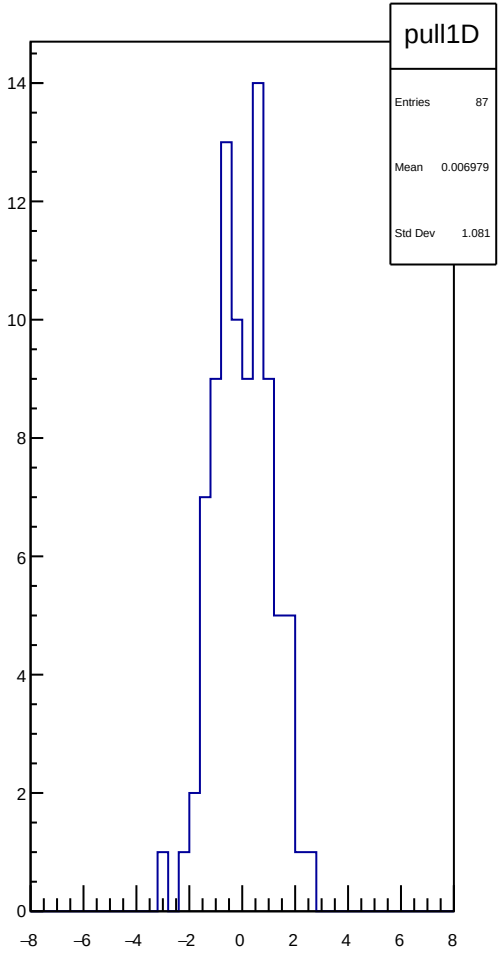

dit_asym_at1_avg_rms vs run
χ² / ndf 87.82 / 86
p0 1833 ± 1.423
1880
1860
1840
1820
1800

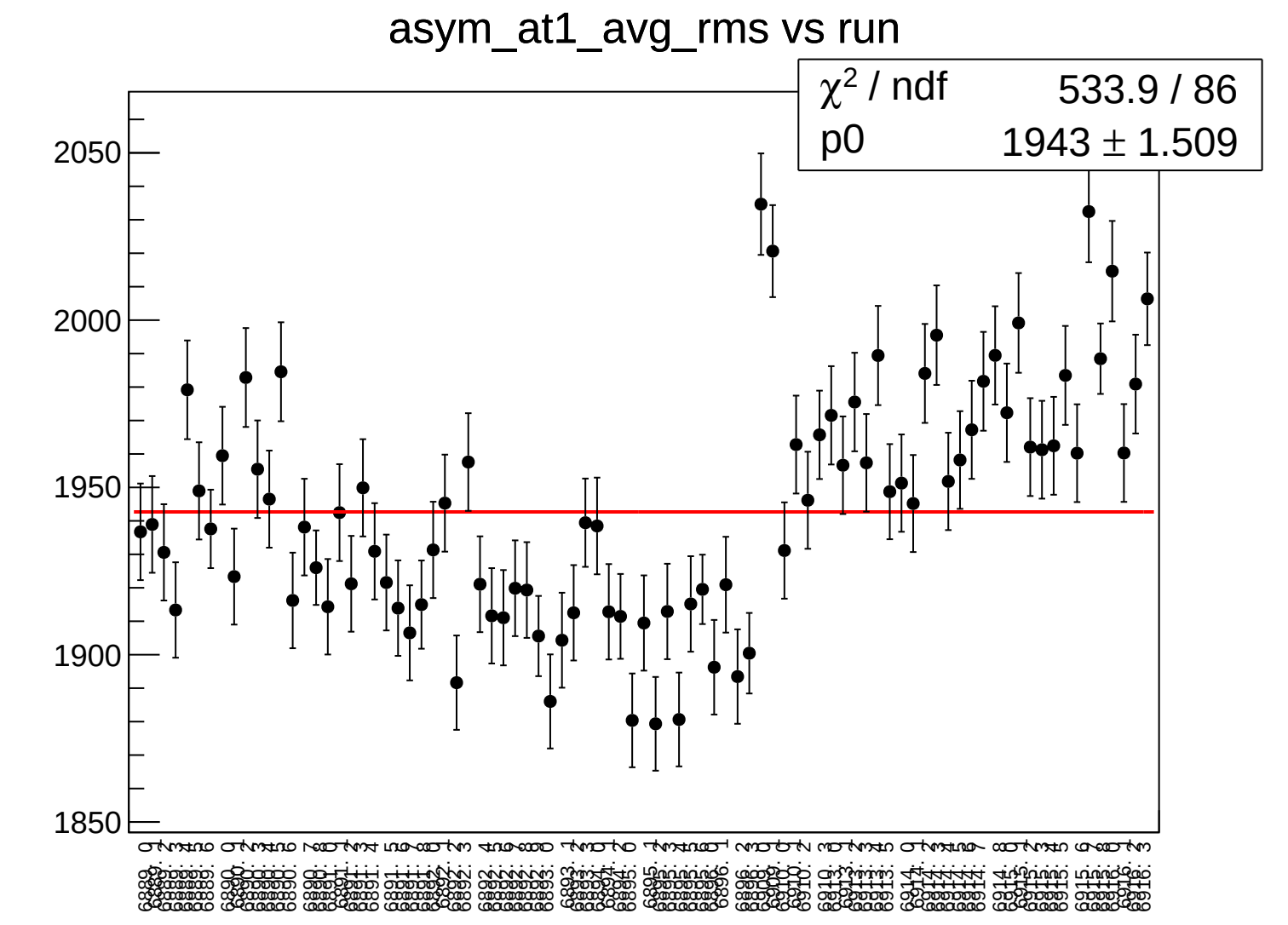

asym_at1_avg_correction_mean vs run
χ² / ndf 101.2 / 86
p0 −387.2 ± 683.8
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −1097
Std Dev 1132
3
2
1
0
−1
−2

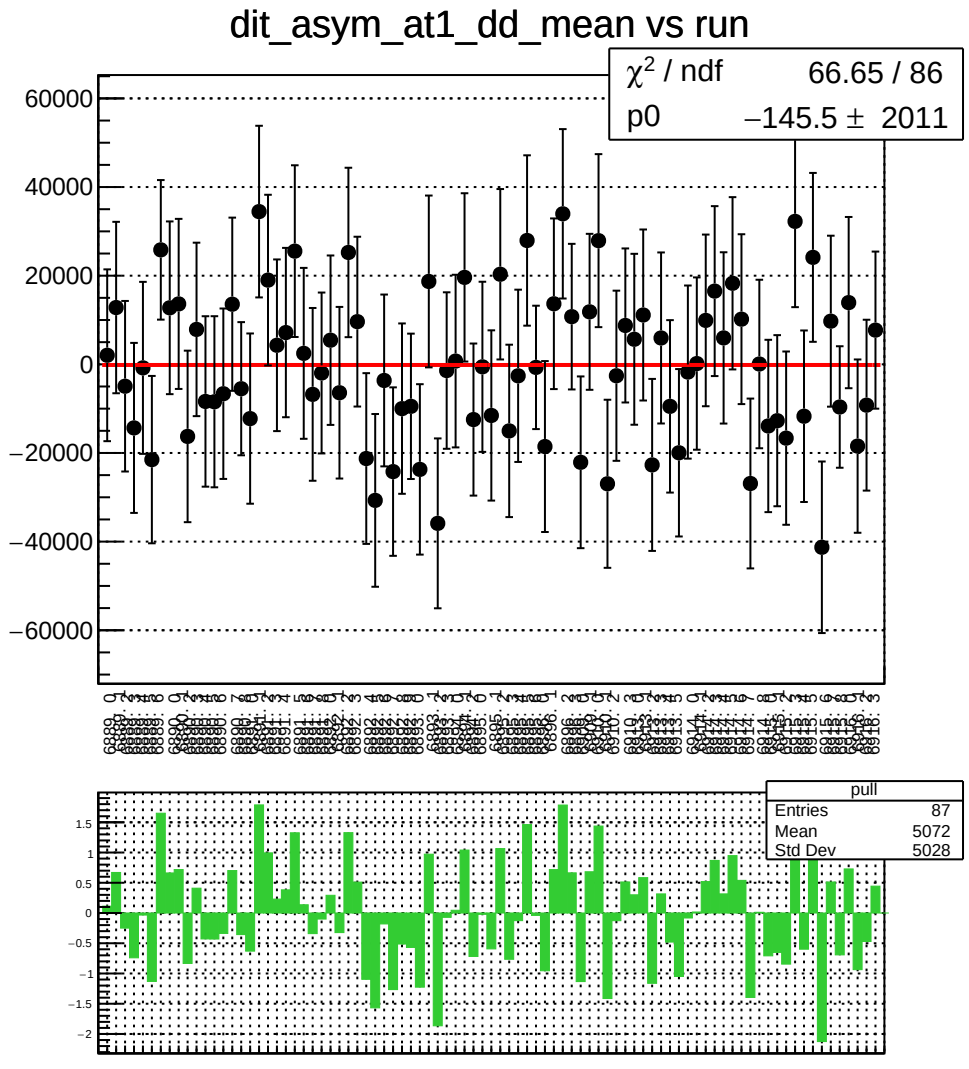

pull1D
Entries 87
Mean 0.003681
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

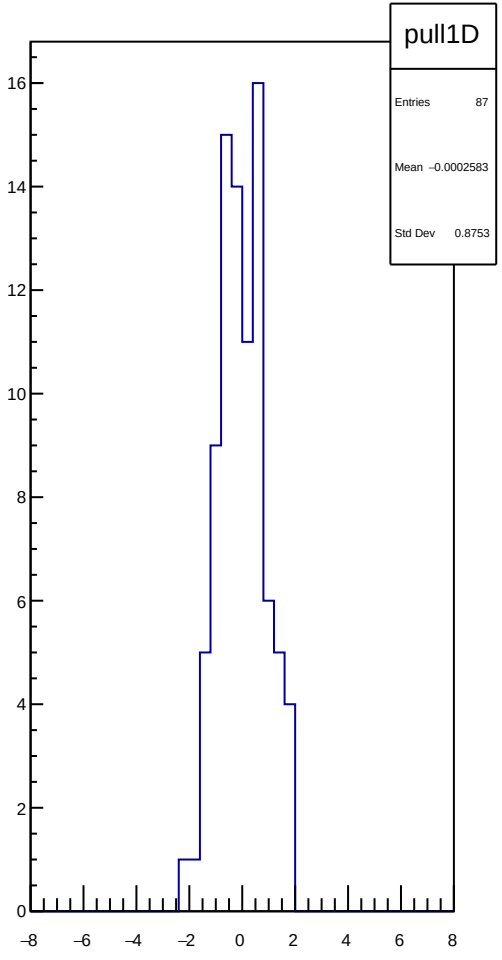

asym_at1_avg_correction_rms vs run
χ² / ndf 2.053e+04 / 86
p0 618.9 ± 0.4835
800
750
700
650
600
550
500

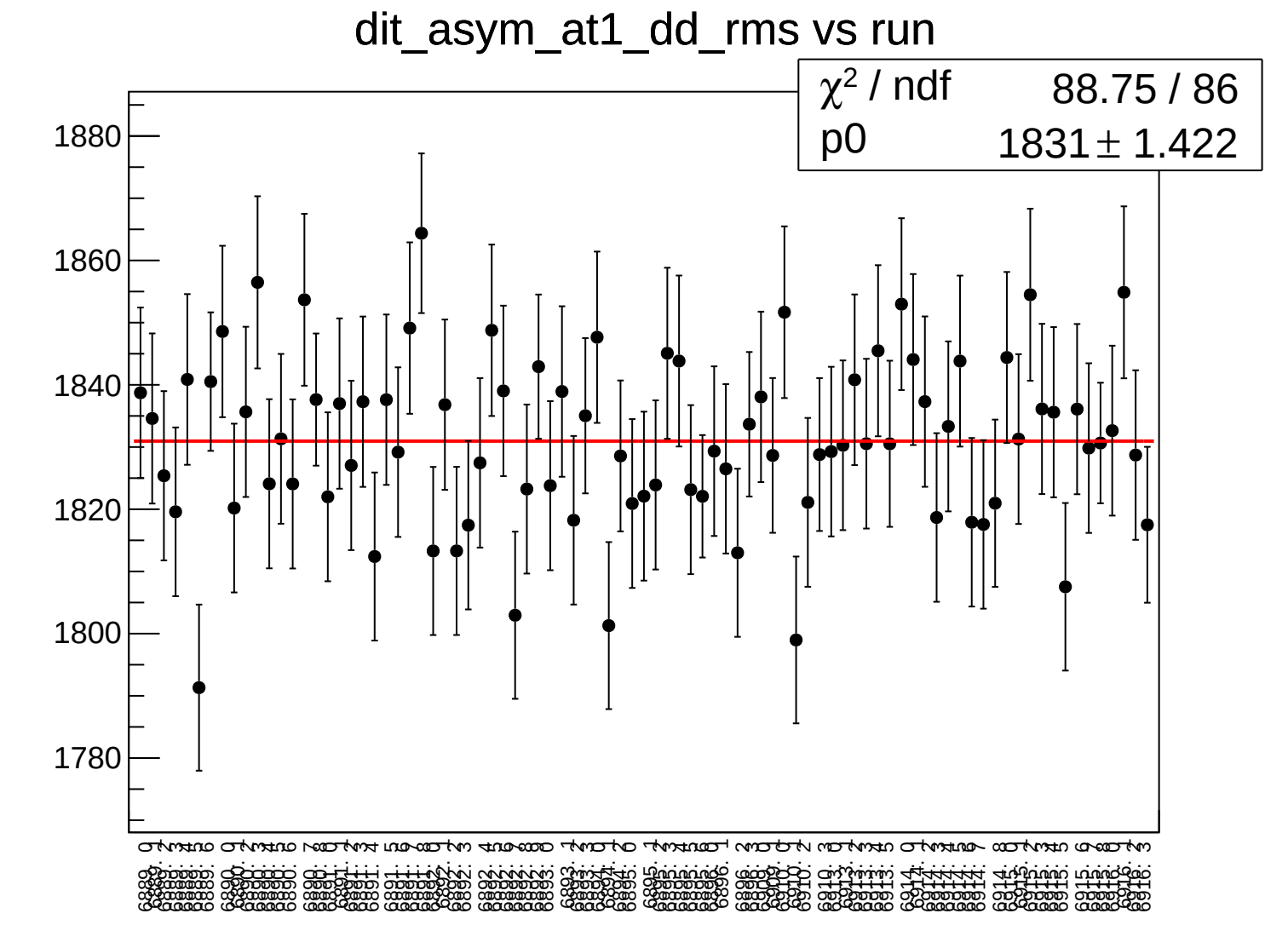

asym_at1_avg_mean vs run
χ² / ndf 101.7 / 86
p0 −7193 ± 2134
×10³
pull
Entries 87
Mean 1078
Std Dev 1035

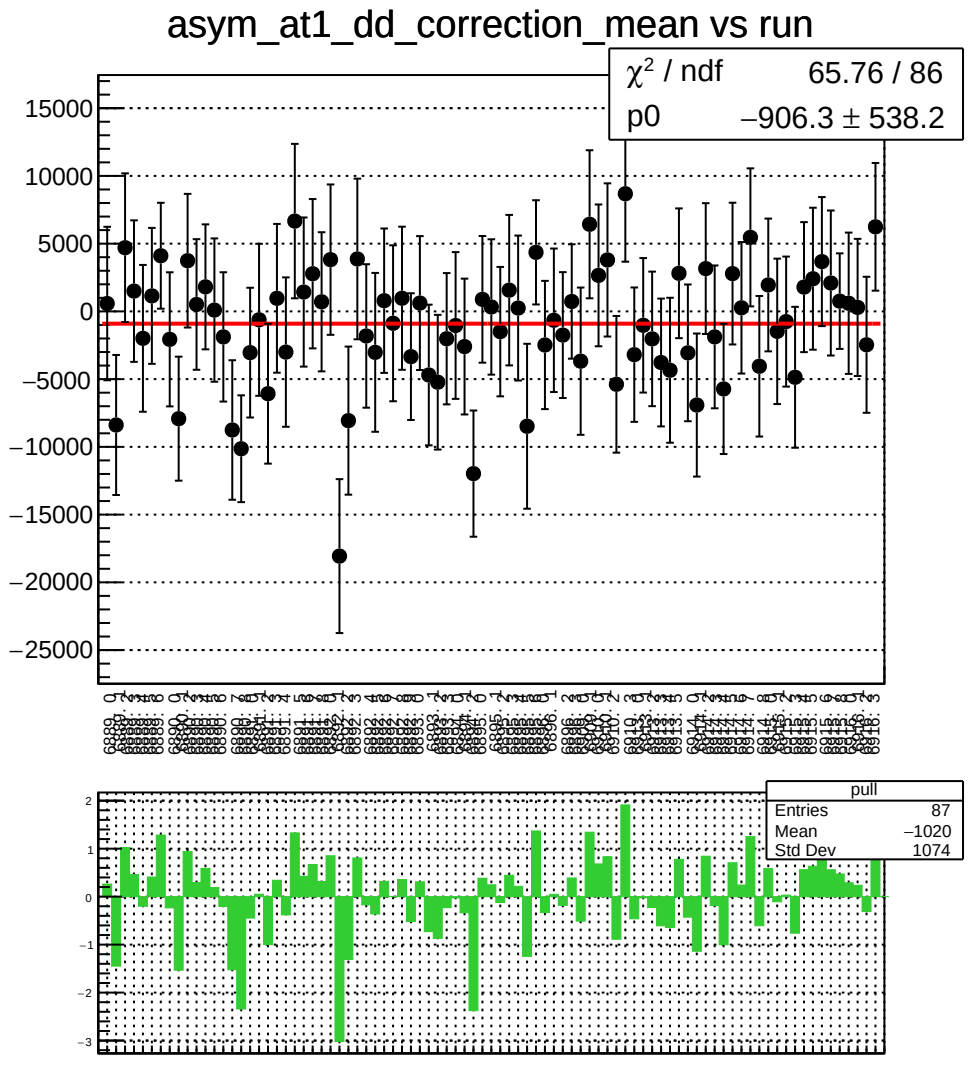

pull1D
Entries 87
Mean 0.006979
Std Dev 1.081

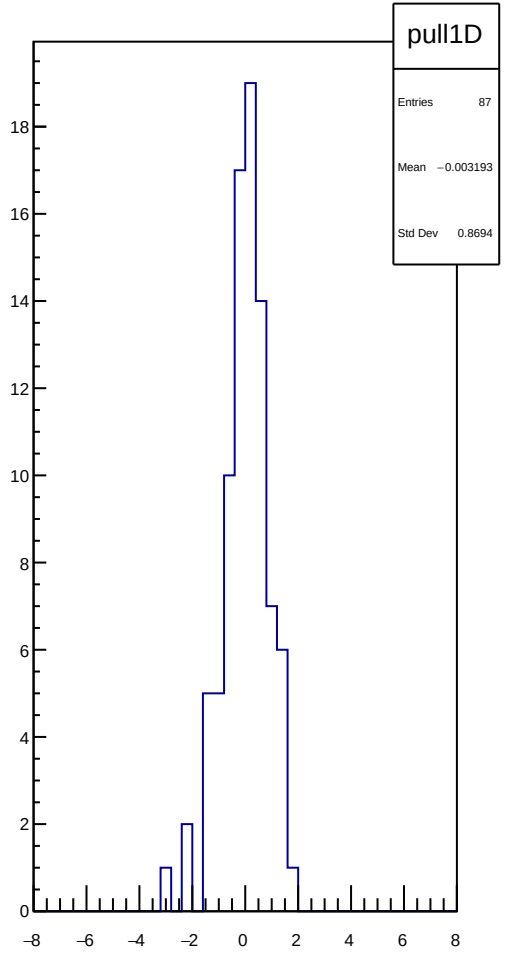

asym_at1_avg_rms vs run
χ^2 / ndf 533.9 / 86
p0 1943 ± 1.509
2050
2000
1950
1900
1850

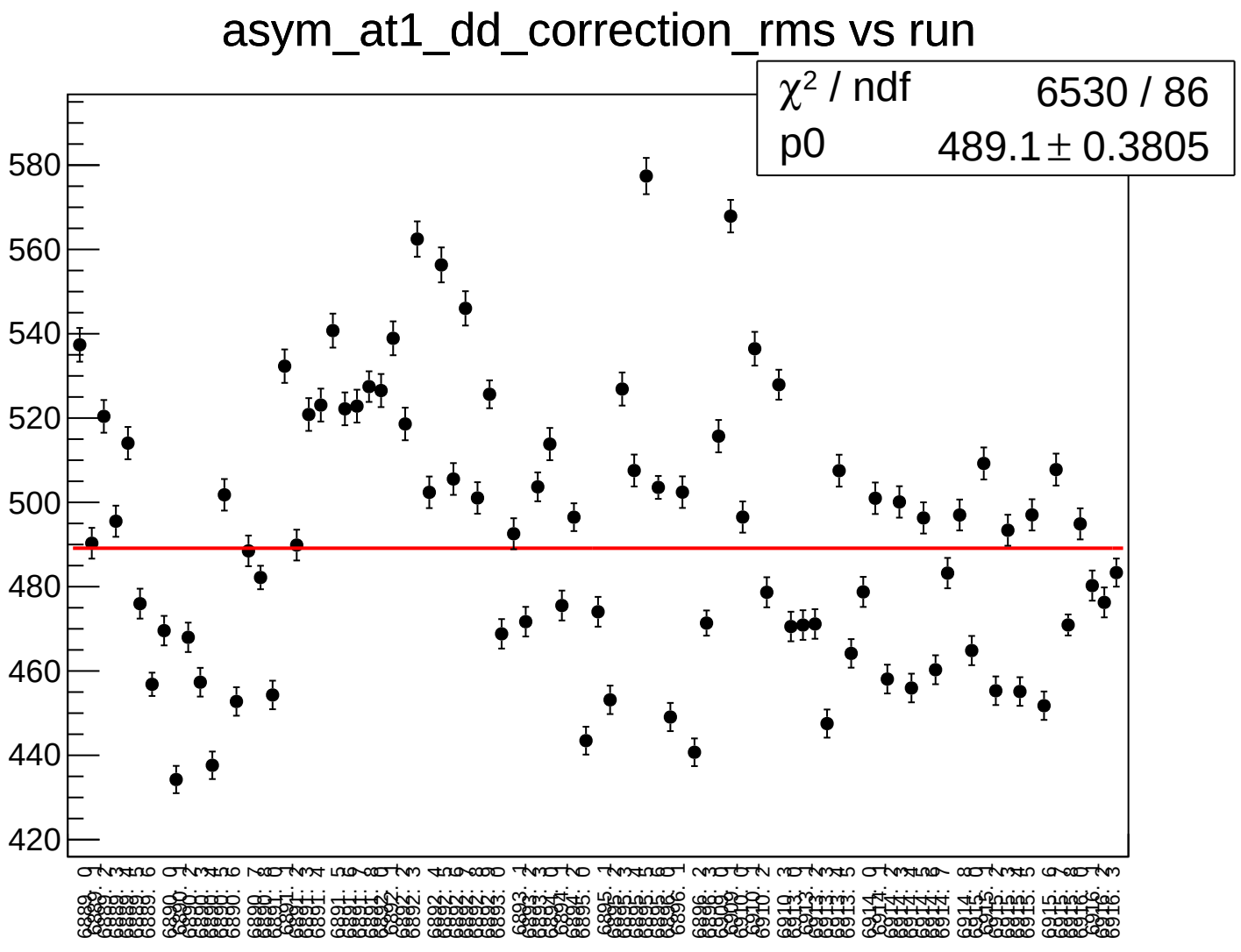

dit_asym_at1_dd_mean vs run
χ² / ndf 66.65 / 86
p0 −145.5 ± 2011
pull
Entries 87
Mean 5072
Std Dev 5028

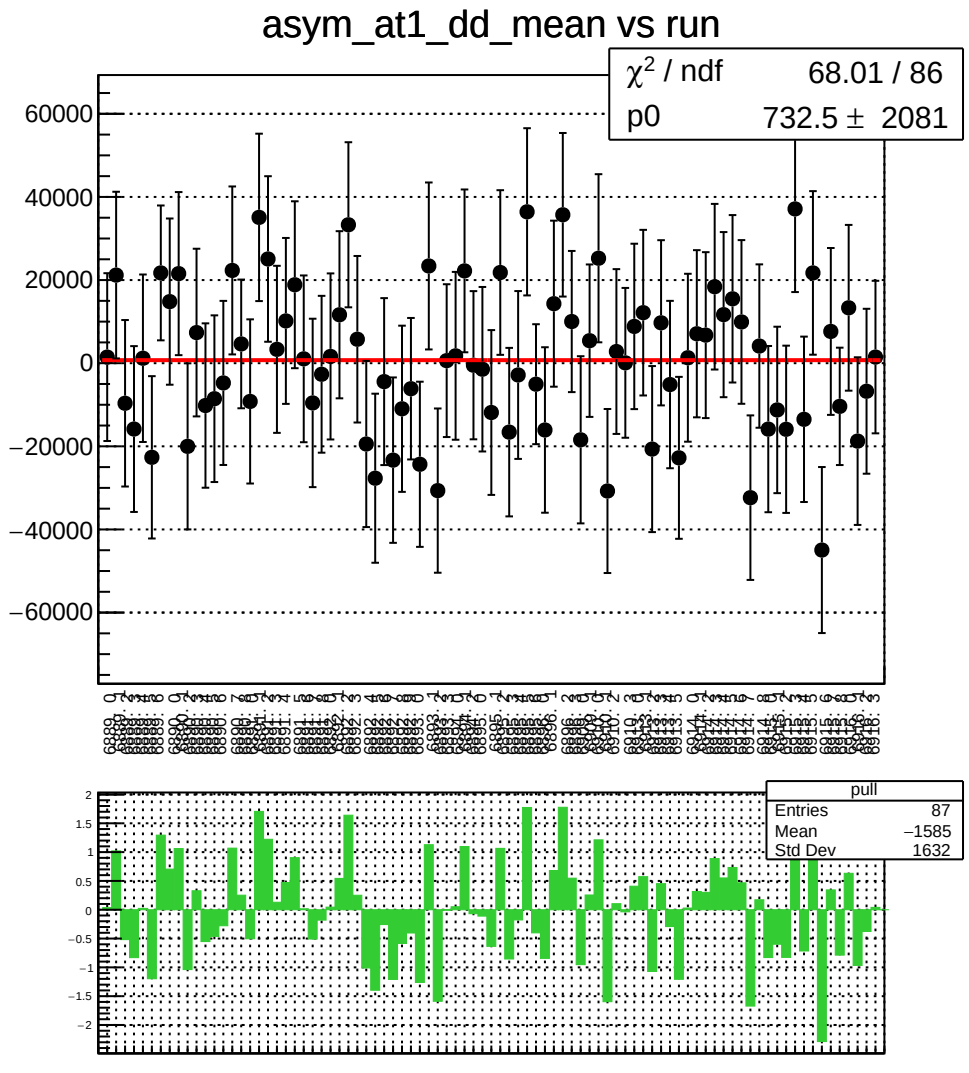

pull1D
Entries 87
Mean −0.0002583
Std Dev 0.8753

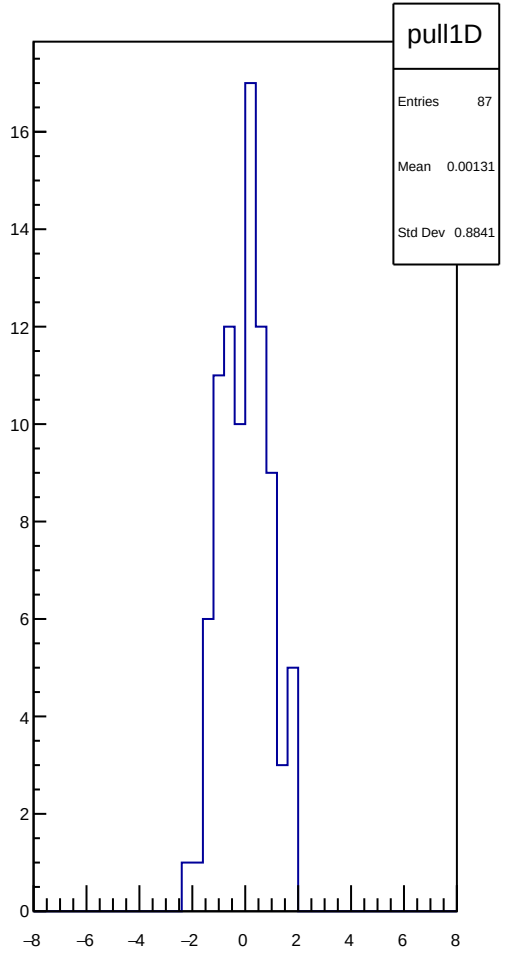

dit_asym_at1_dd_rms vs run
χ² / ndf 88.75 / 86
p0 1831 ± 1.422
1880
1860
1840
1820
1800
1780

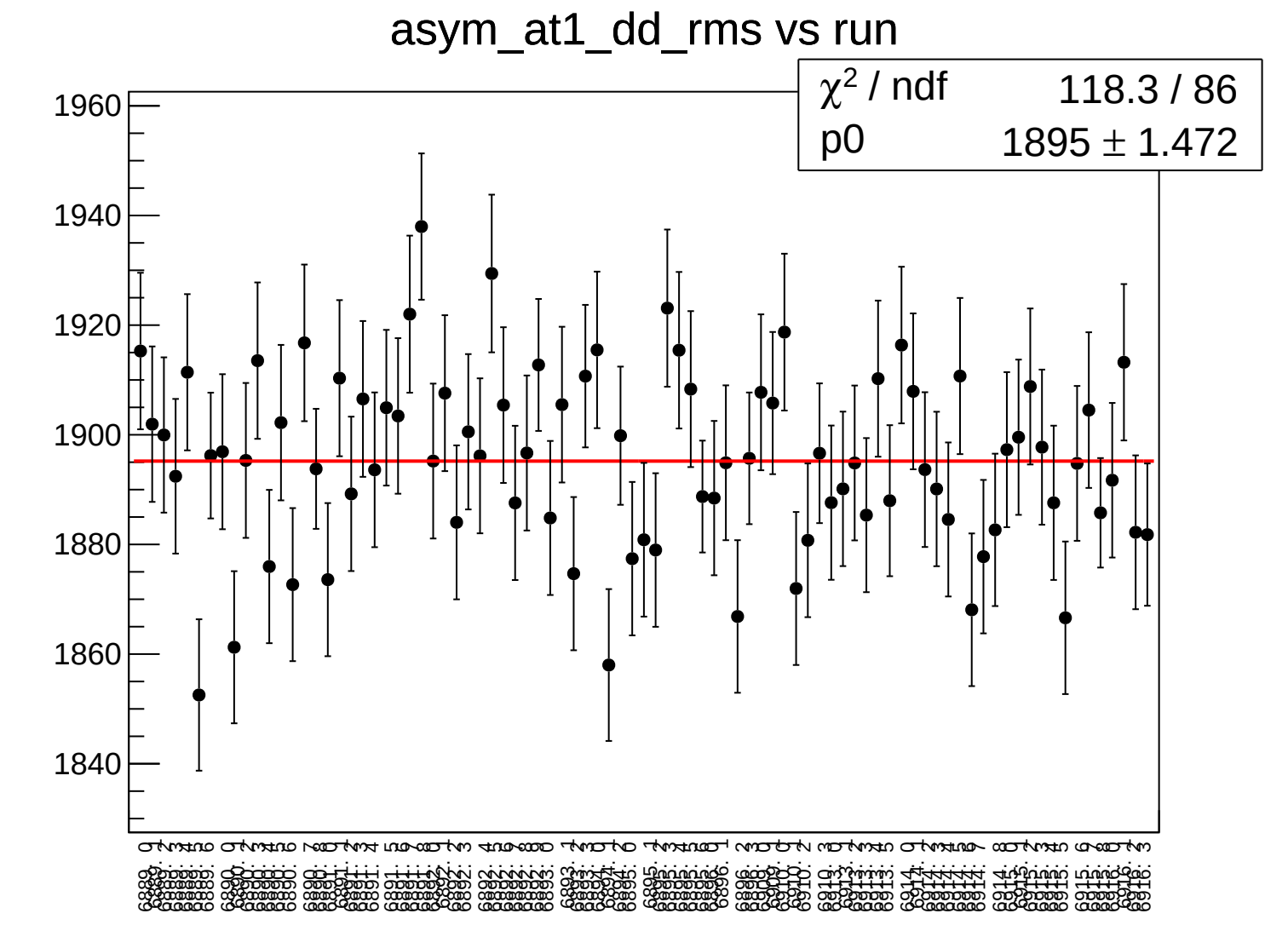

asym_at1_dd_correction_mean vs run
χ² / ndf 65.76 / 86
p0 −906.3 ± 538.2
pull
Entries 87
Mean −1020
Std Dev 1074

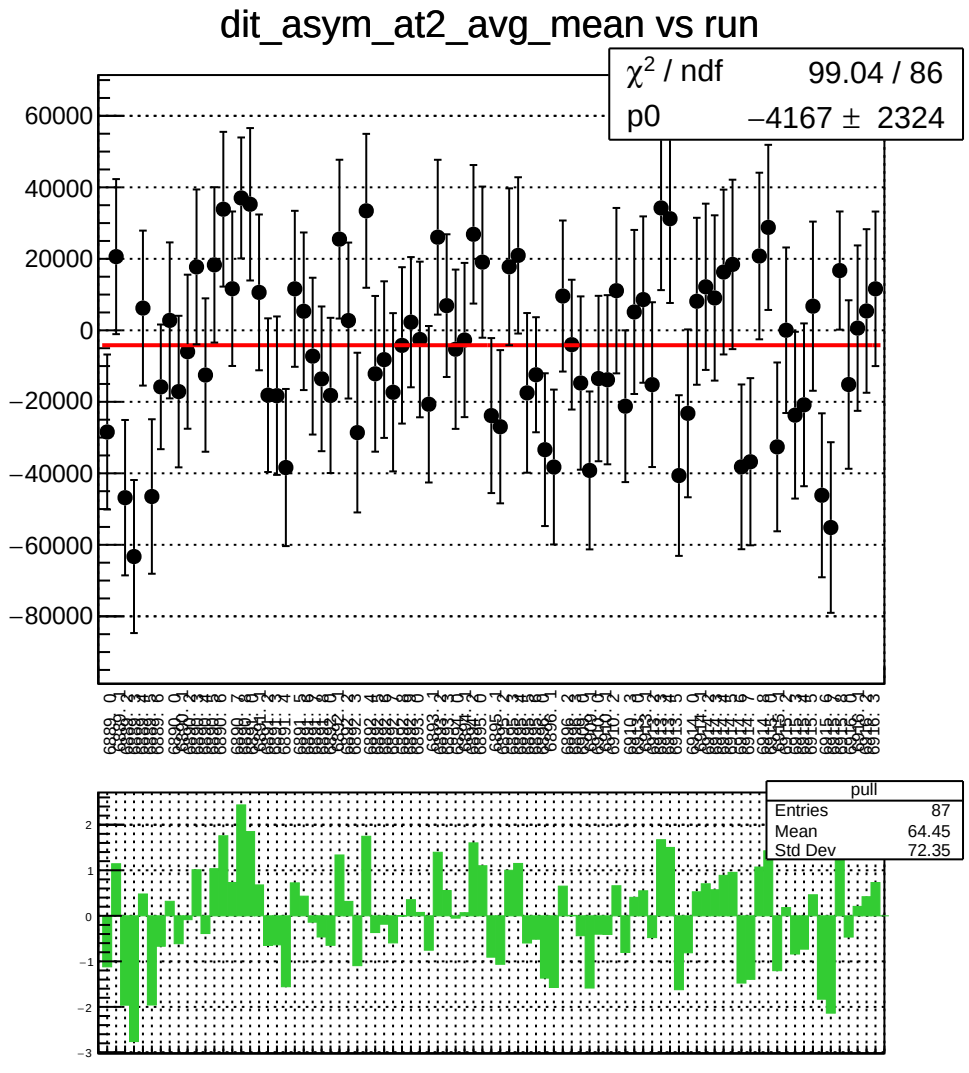

pull1D
Entries 87
Mean −0.003193
Std Dev 0.8694

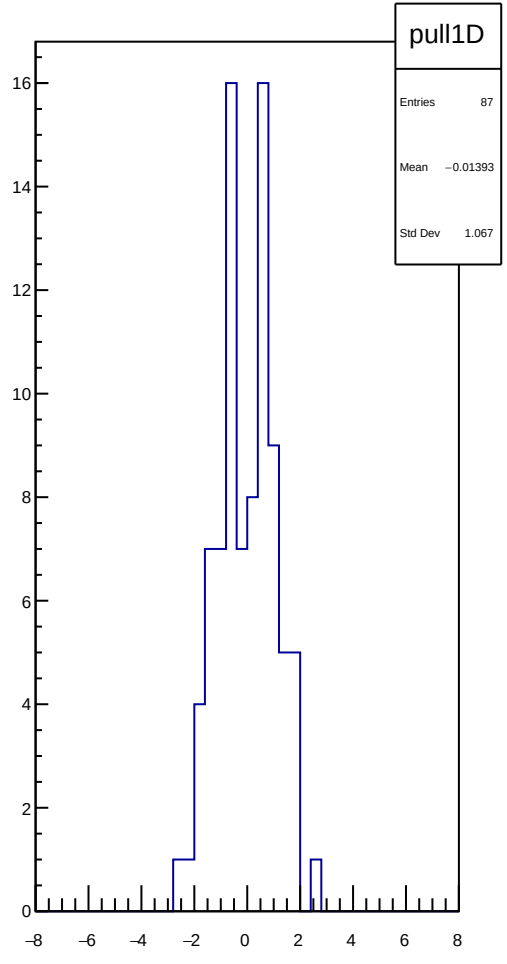

asym_at1_dd_correction_rms vs run
χ² / ndf 6530 / 86
p0 489.1 ± 0.3805
580
560
540
520
500
480
460
440
420

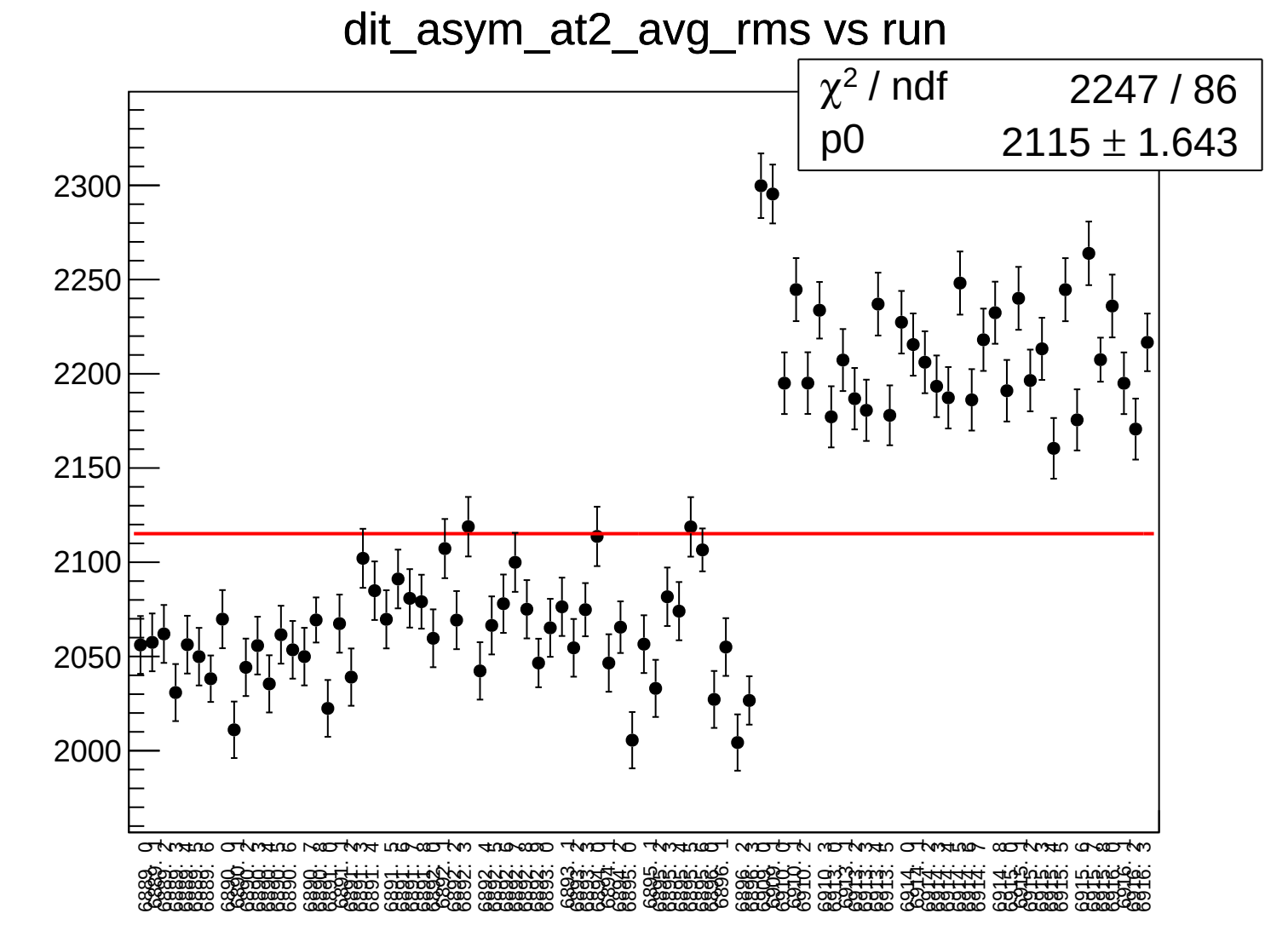

asym_at1_dd_mean vs run
χ² / ndf 68.01 / 86
p0 732.5 ± 2081
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −1585
Std Dev 1632
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

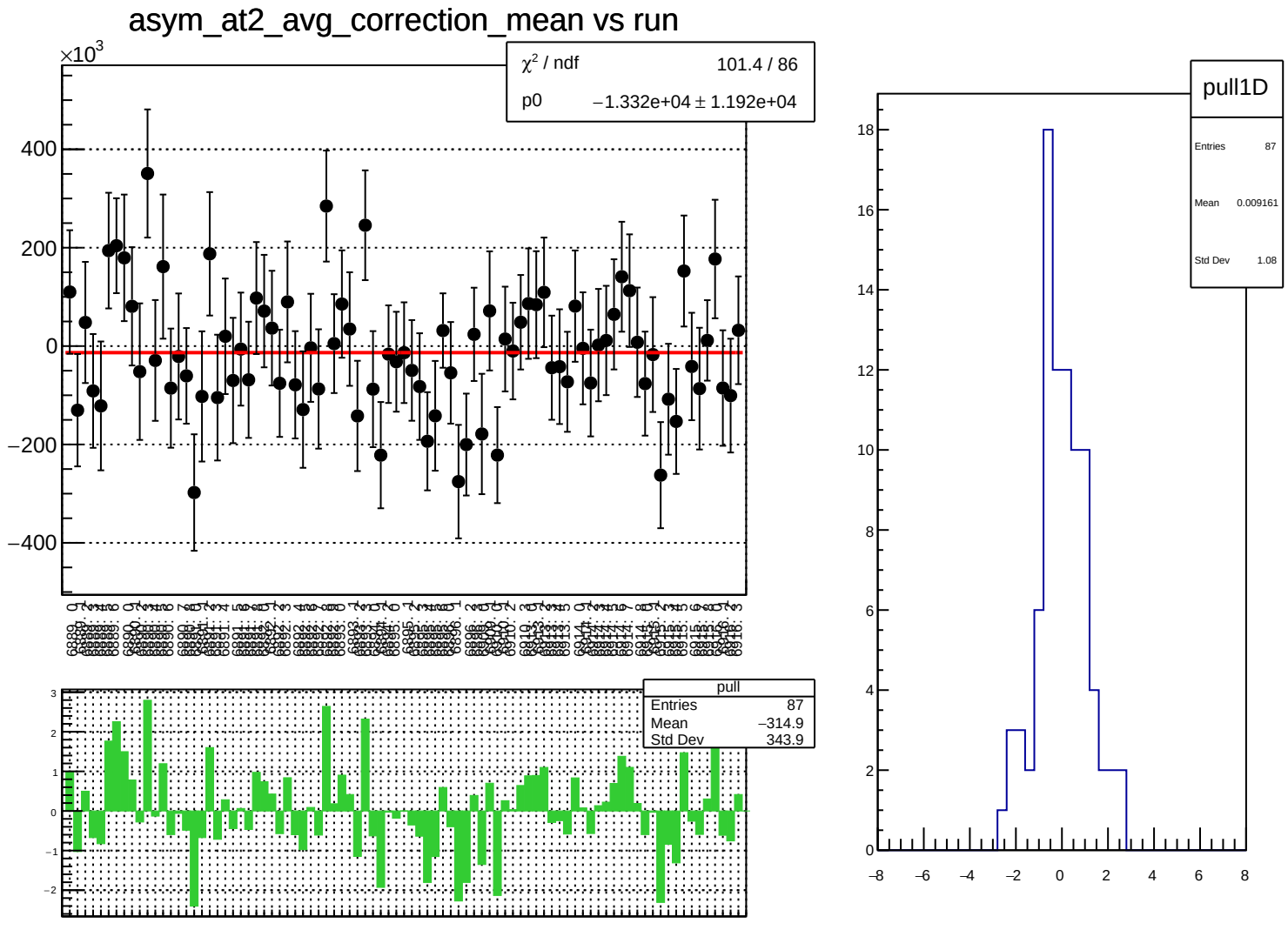

pull1D
Entries 87
Mean 0.00131
Std Dev 0.8841
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

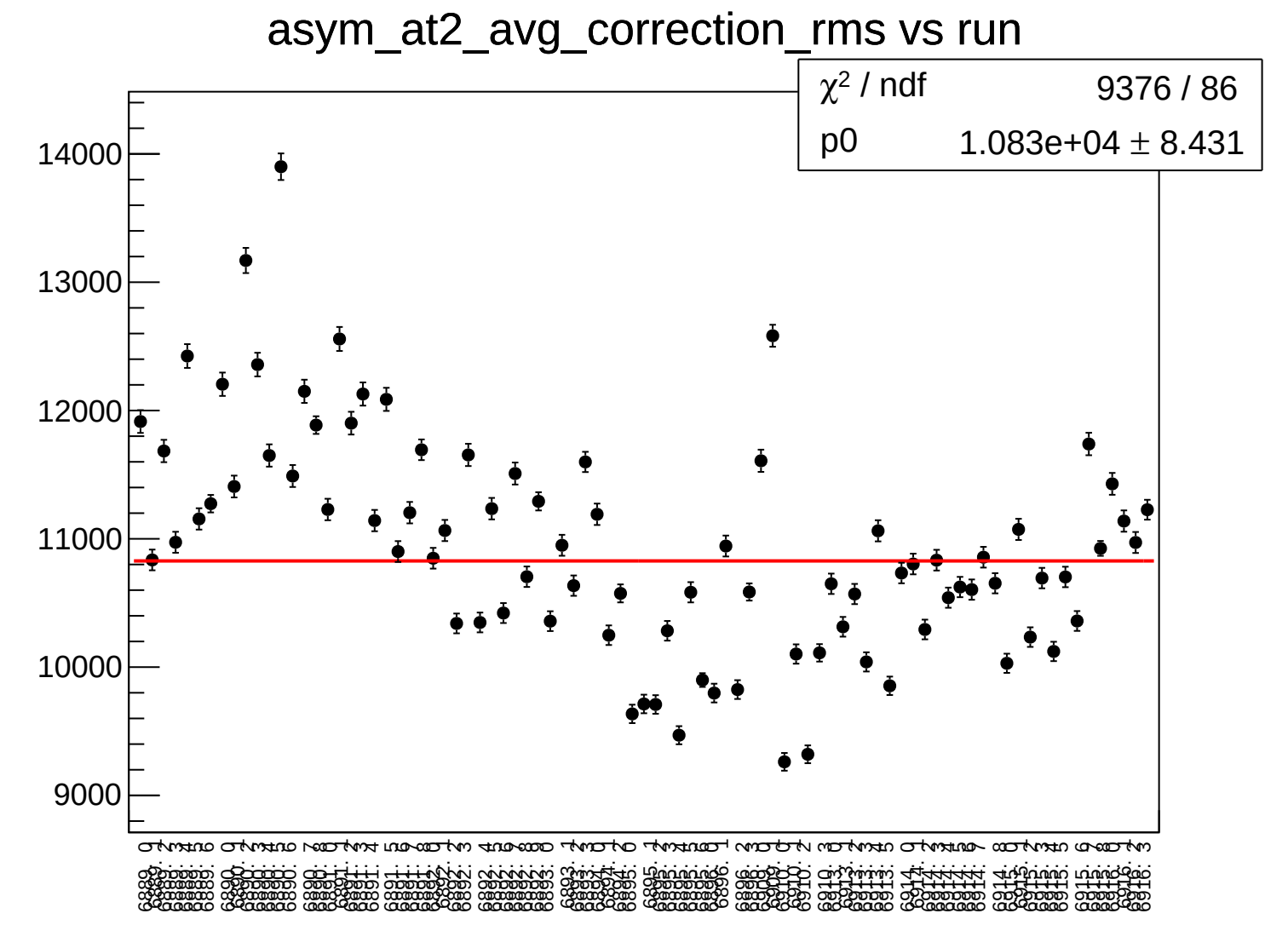

asym_at1_dd_rms vs run
χ² / ndf 118.3 / 86
p0 1895 ± 1.472
1960
1940
1920
1900
1880
1860
1840

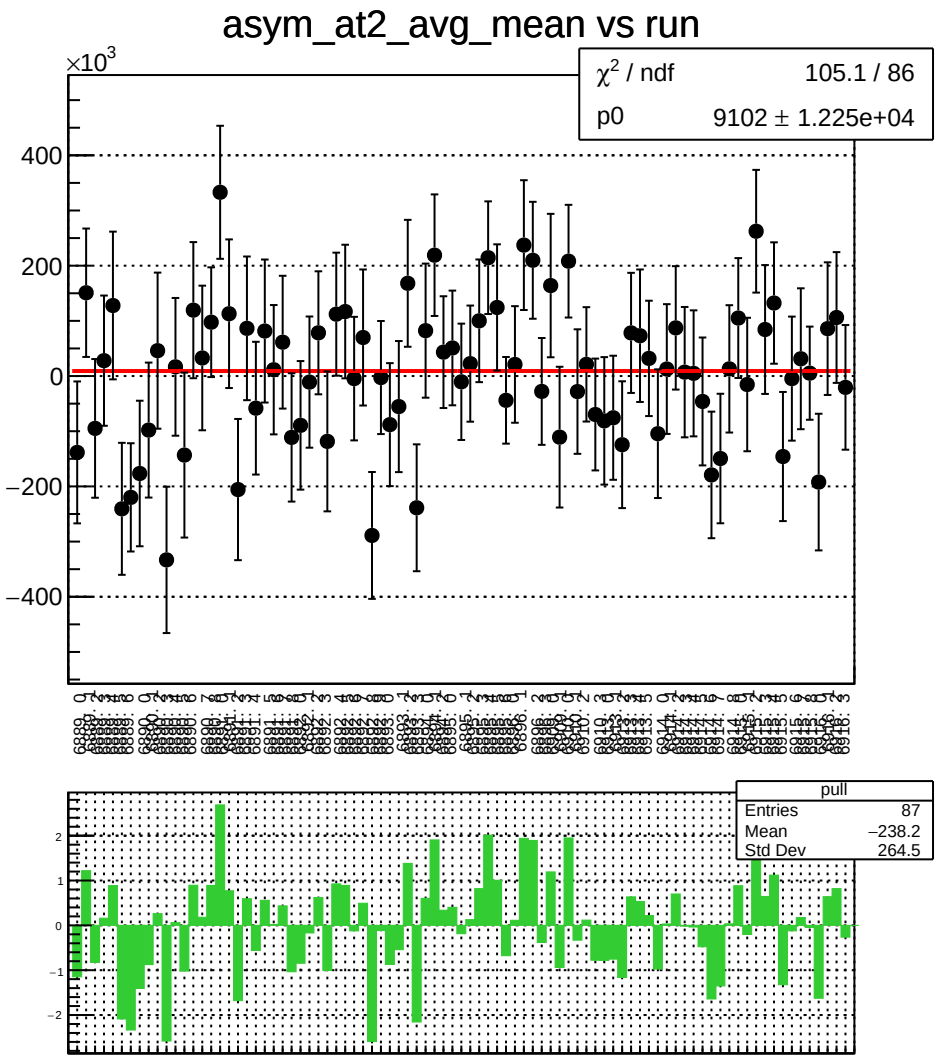

dit_asym_at2_avg_mean vs run
χ² / ndf 99.04 / 86
p0 −4167 ± 2324
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 64.45
Std Dev 72.35
2
1
0
−1
−2
−3

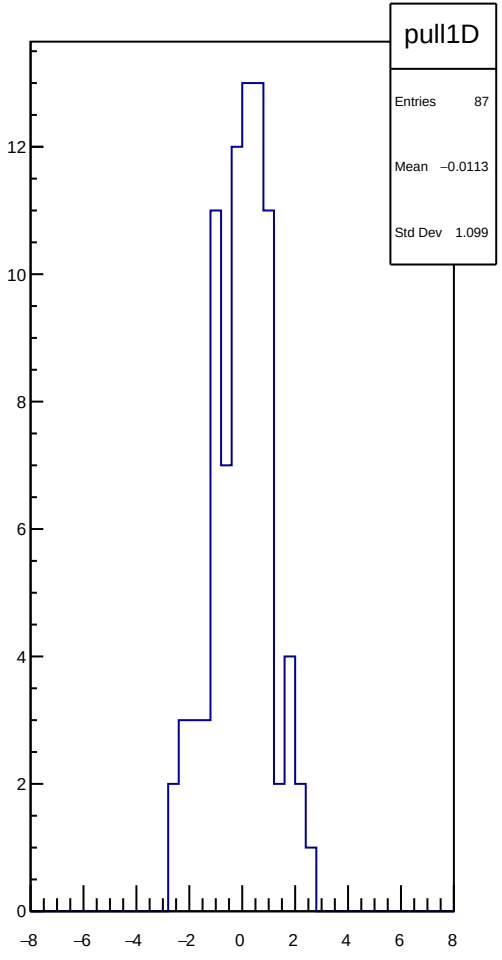

pull1D
Entries 87
Mean −0.01393
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

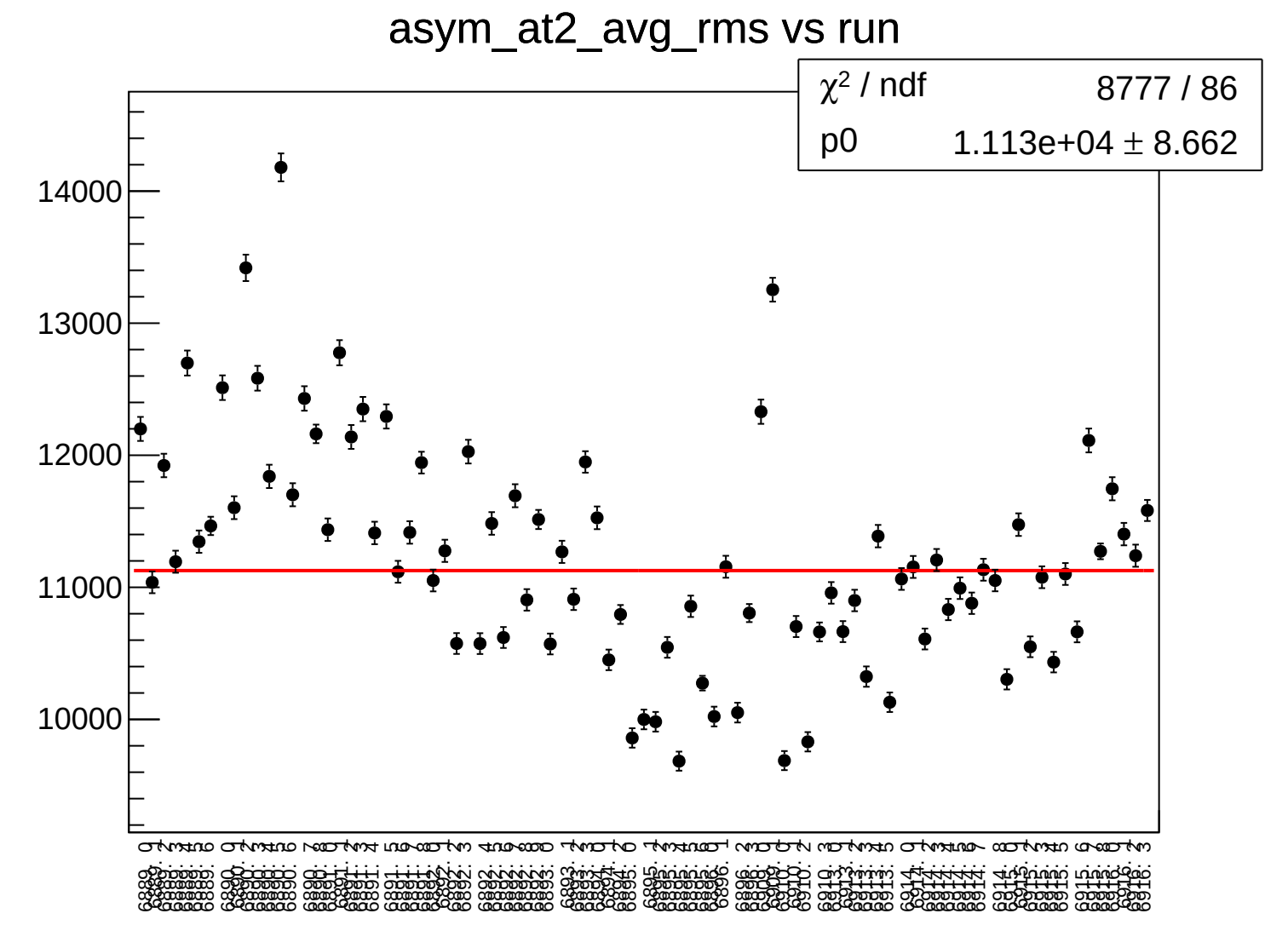

dit_asym_at2_avg_rms vs run
χ^2 / ndf 2247 / 86
p0 2115 ± 1.643
2300
2250
2200
2150
2100
2050
2000

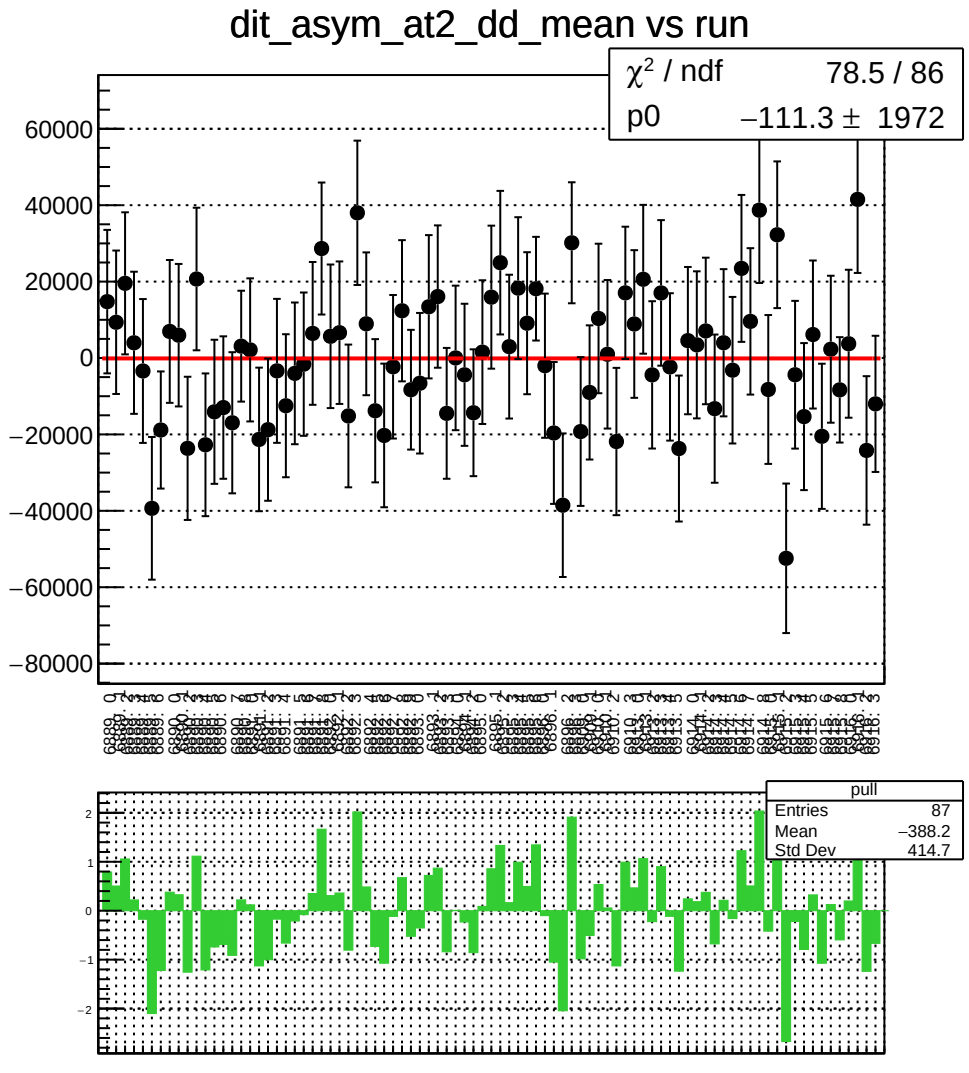

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 101.4 / 86
p0 −1.332e+04 ± 1.192e+04
400
200
0
−200
−400
pull
Entries 87
Mean −314.9
Std Dev 343.9
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.009161
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

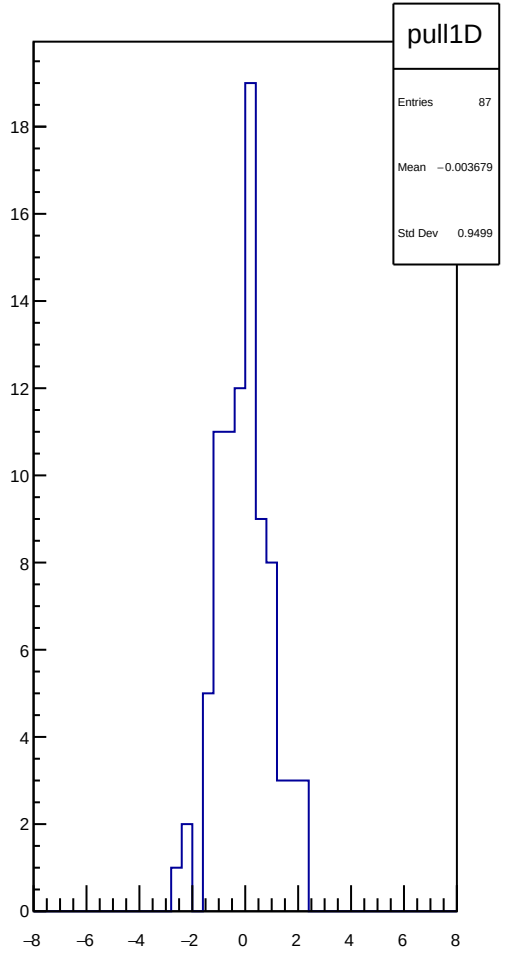

asym_at2_avg_correction_rms vs run
χ² / ndf 9376 / 86
p0 1.083e+04 ± 8.431
14000
13000
12000
11000
10000
9000

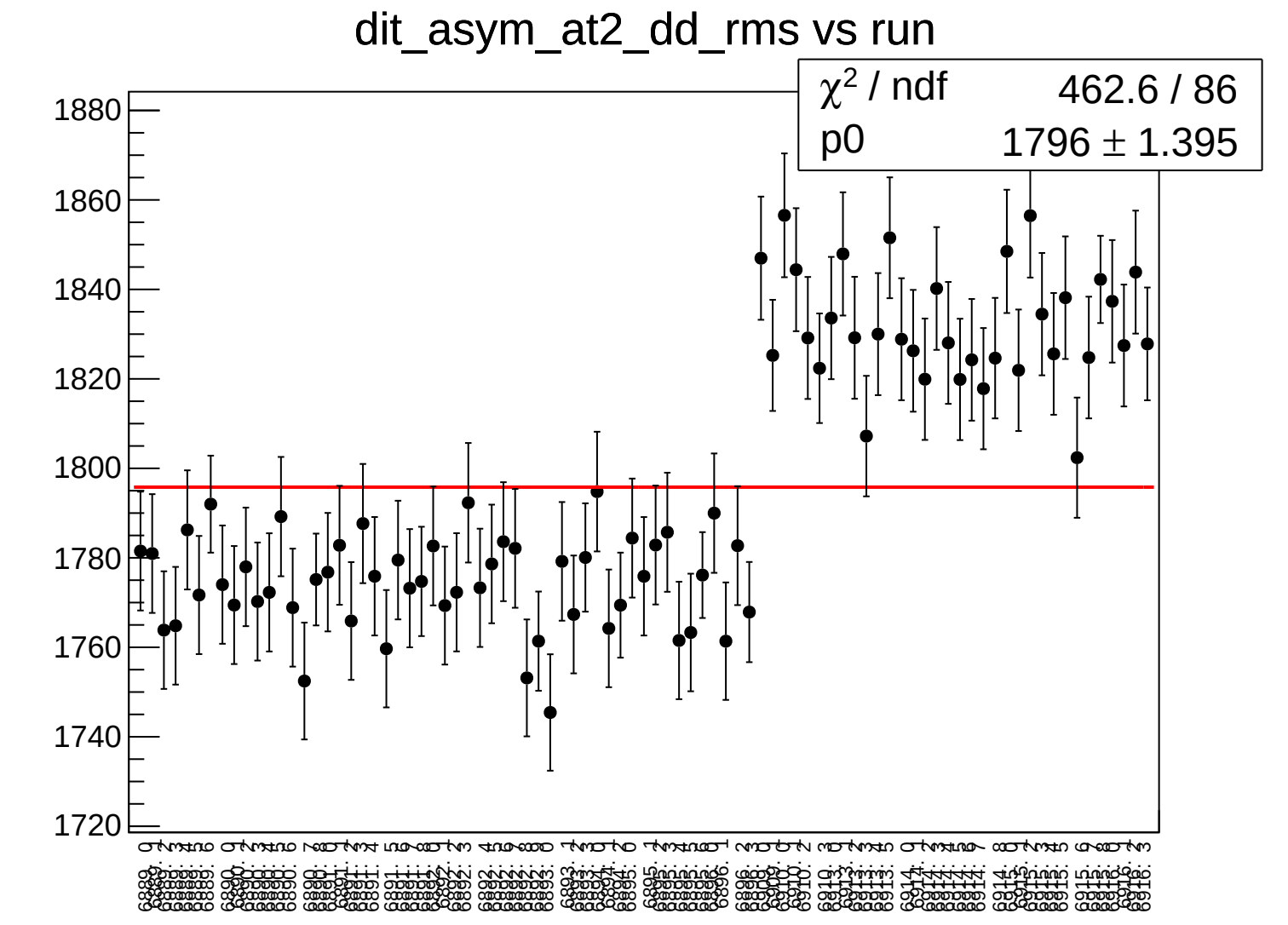

asym_at2_avg_mean vs run
×10^3
χ² / ndf 105.1 / 86
p0 9102 ± 1.225e+04
400
200
0
−200
−400
pull
Entries 87
Mean −238.2
Std Dev 264.5
2
1
0
−1
−2

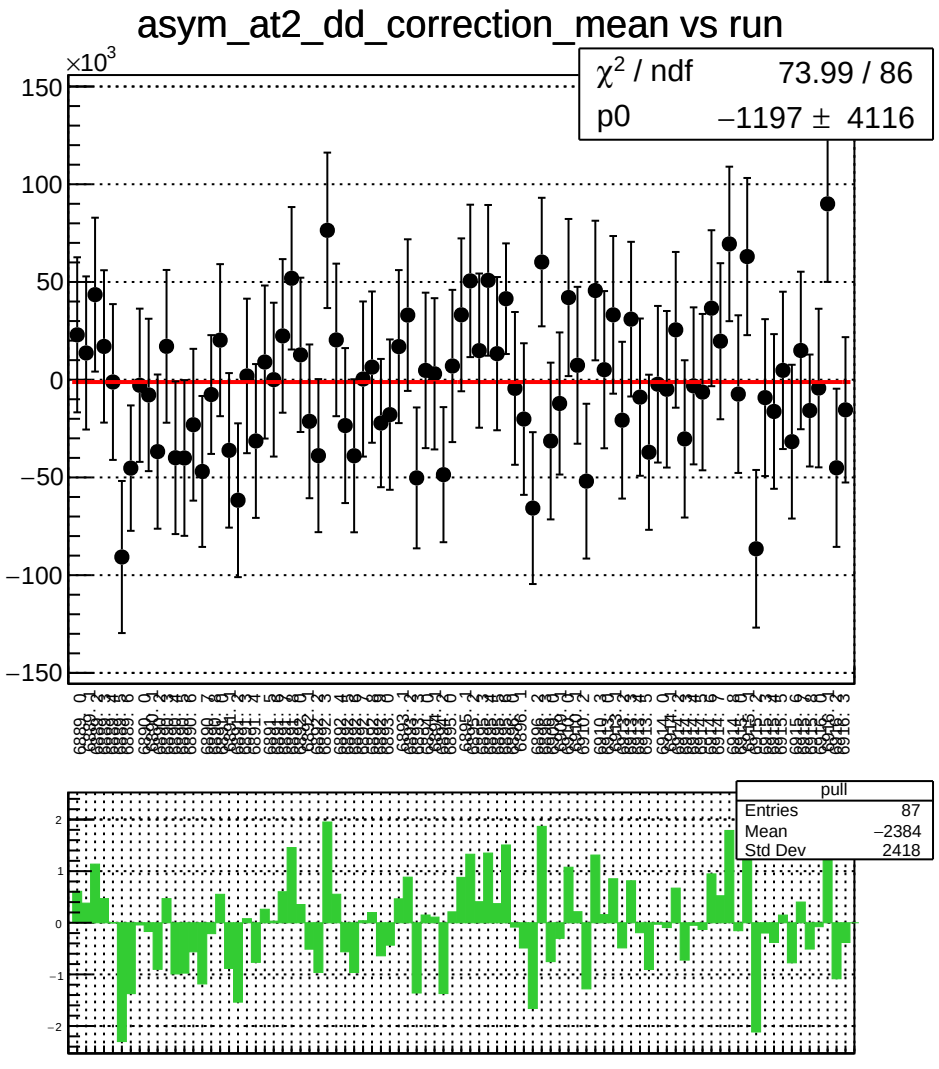

pull1D
Entries 87
Mean −0.0113
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

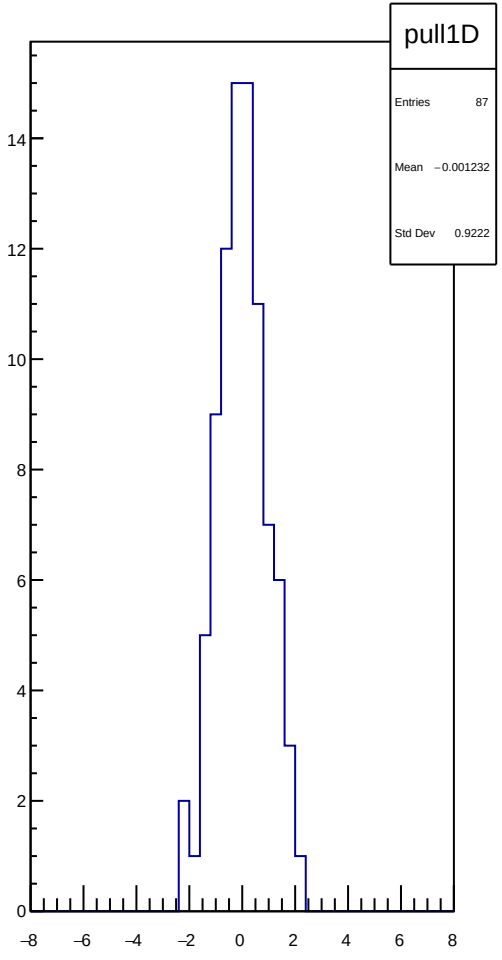

asym_at2_avg_rms vs run
χ² / ndf 8777 / 86
p0 1.113e+04 ± 8.662
14000
13000
12000
11000
10000

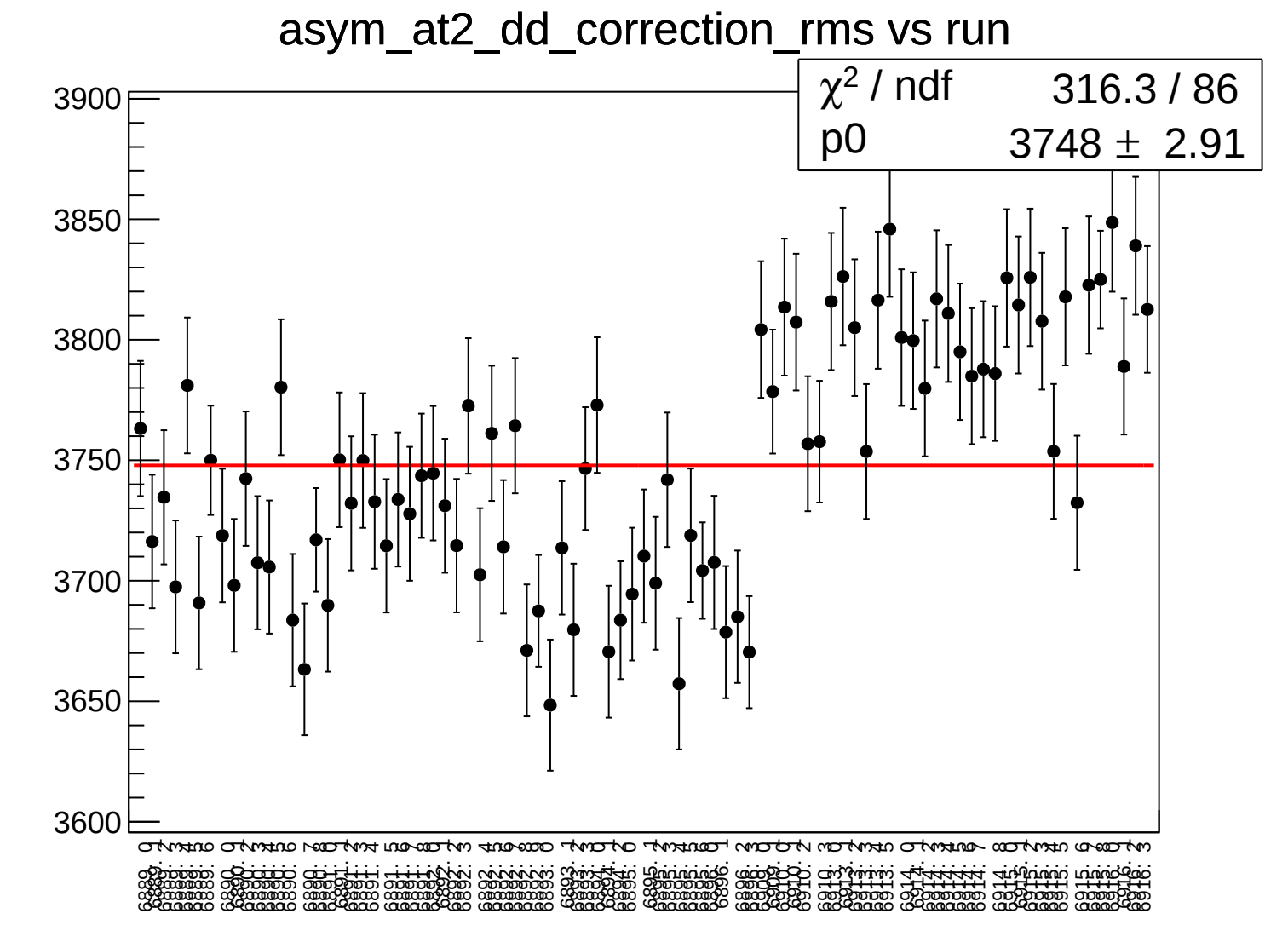

dit_asym_at2_dd_mean vs run
χ² / ndf 78.5 / 86
p0 −111.3 ± 1972
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −388.2
Std Dev 414.7
2
1
0
−1
−2

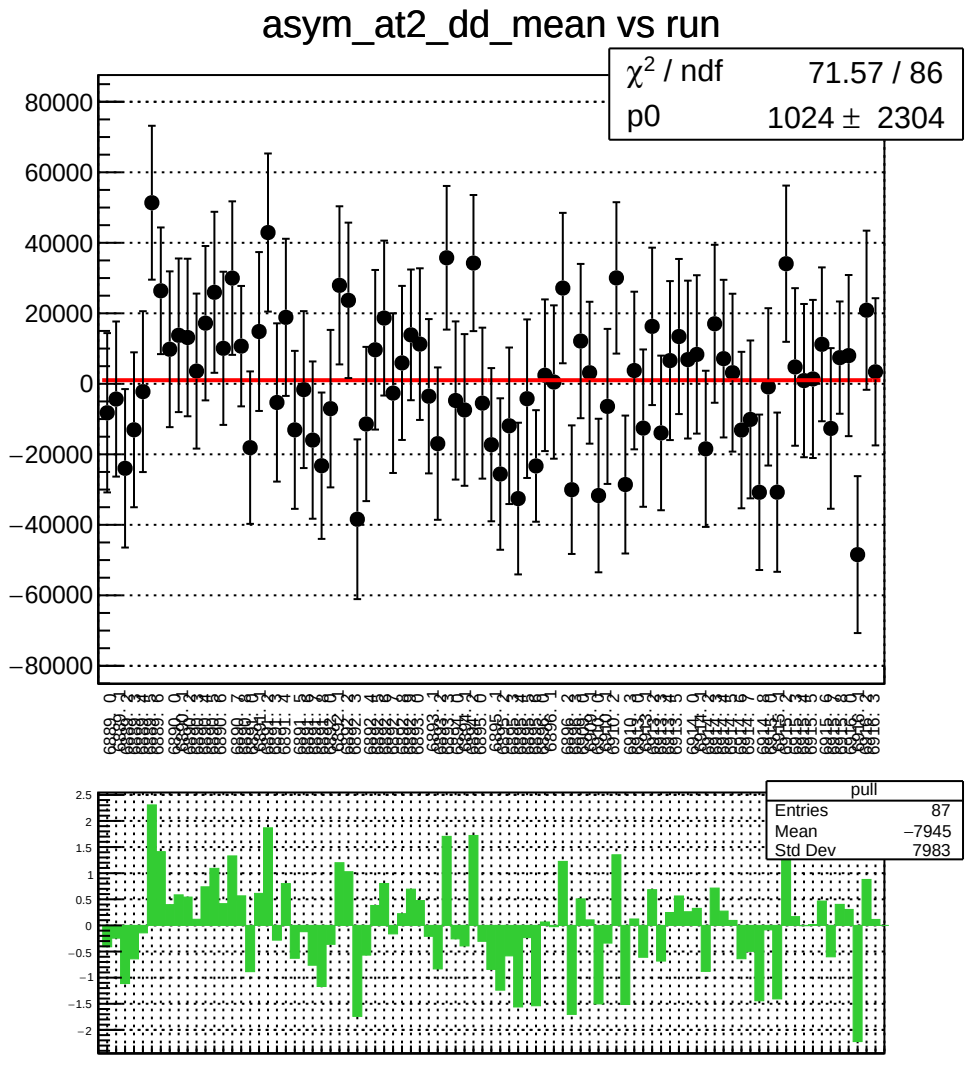

pull1D
Entries 87
Mean −0.003679
Std Dev 0.9499
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

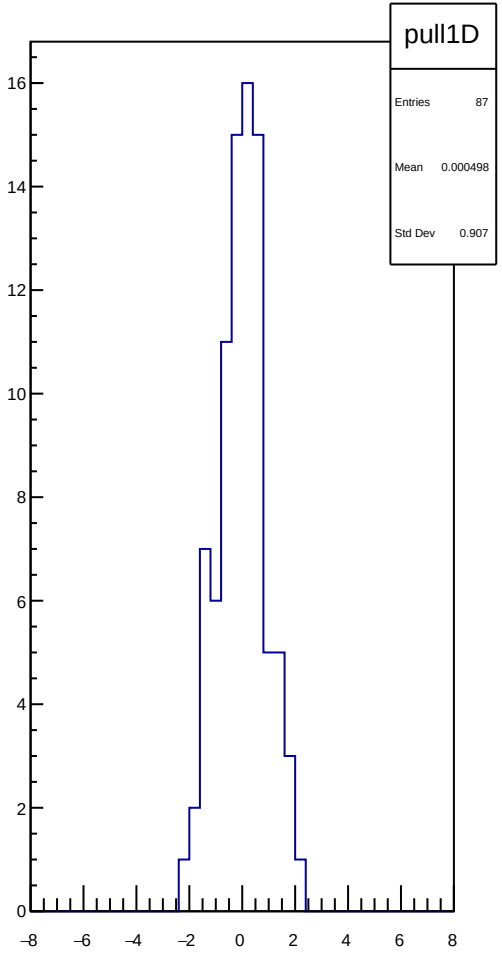

dit_asym_at2_dd_rms vs run
χ^2 / ndf 462.6 / 86
p0 1796 ± 1.395
1880
1860
1840
1820
1800
1780
1760
1740
1720

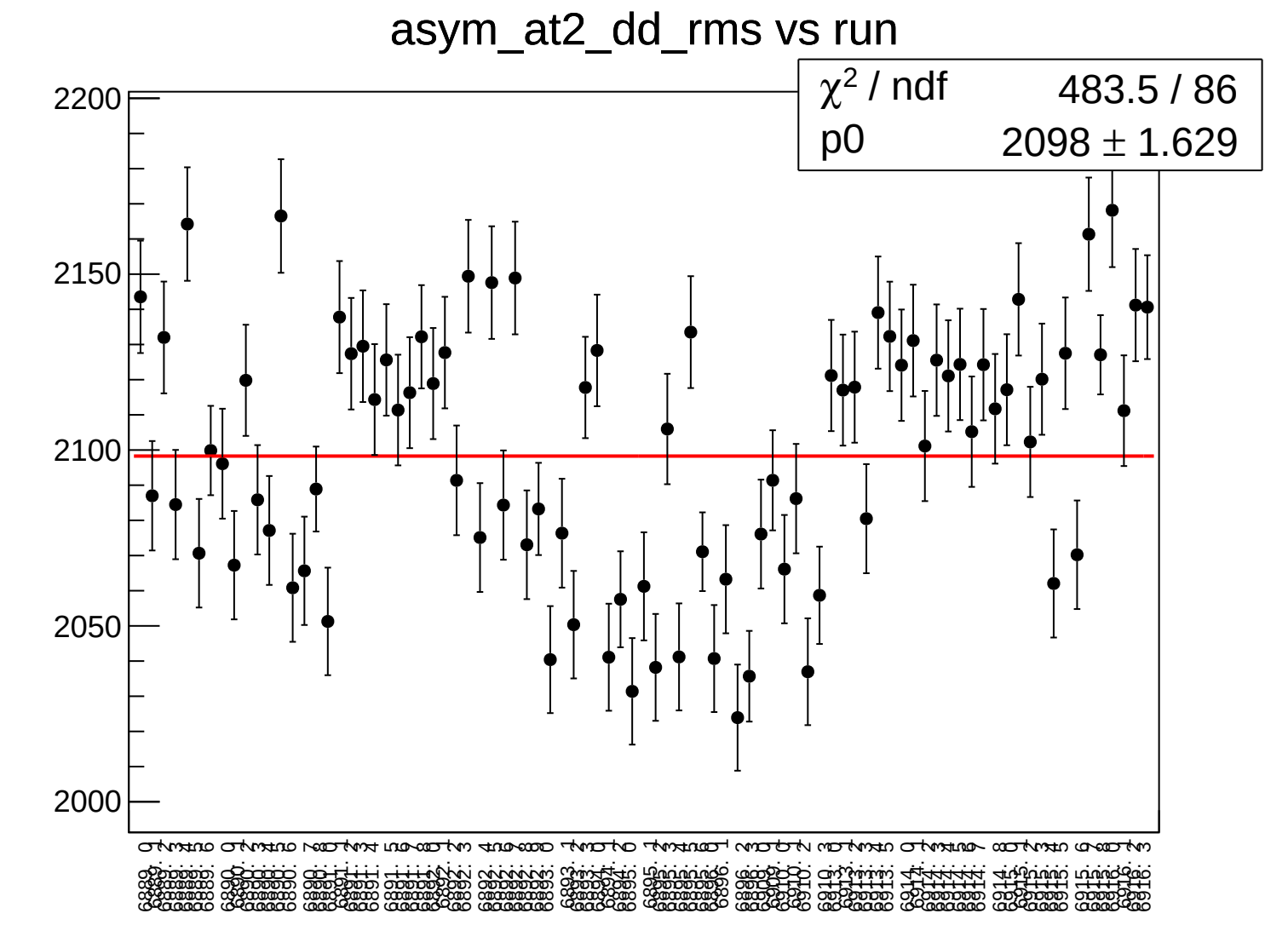

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 73.99 / 86
p0 −1197 ± 4116
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −2384
Std Dev 2418
2
1
0
−1
−2

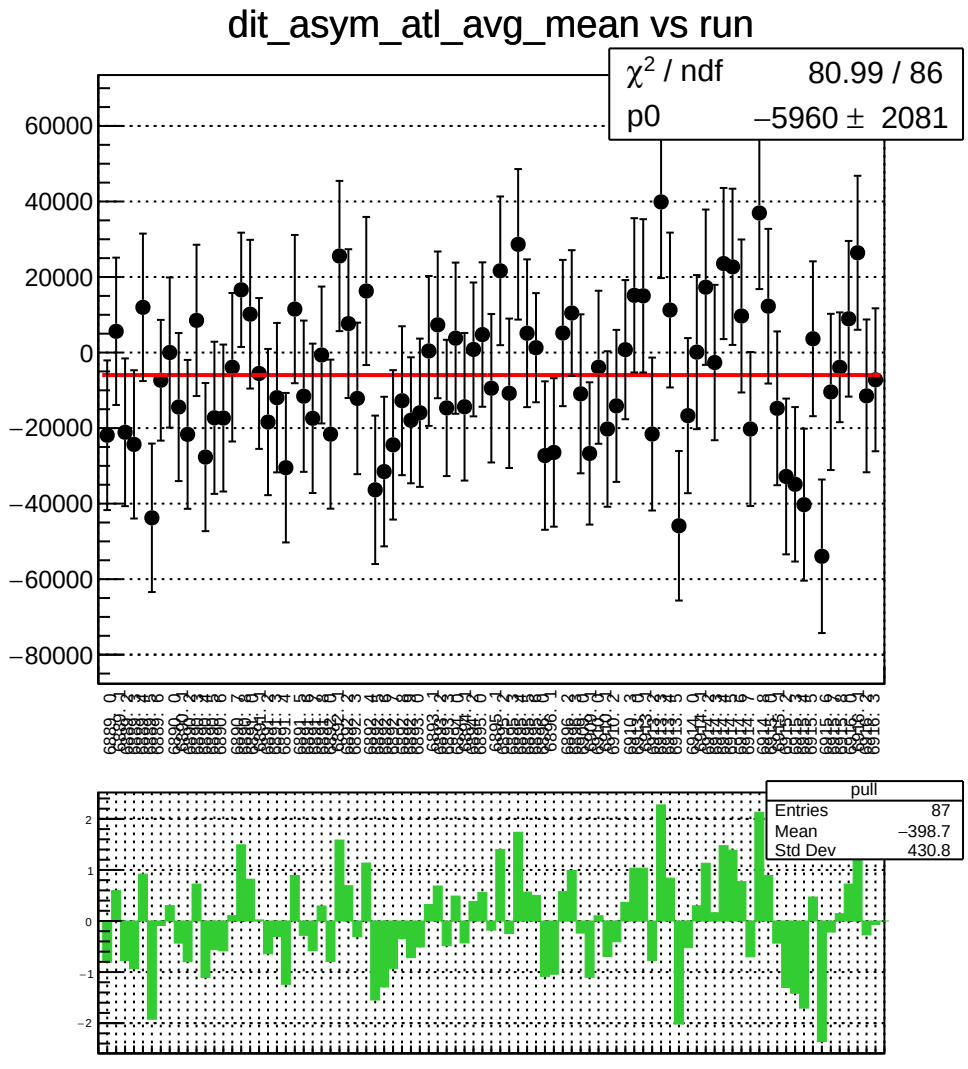

pull1D
Entries 87
Mean −0.001232
Std Dev 0.9222
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

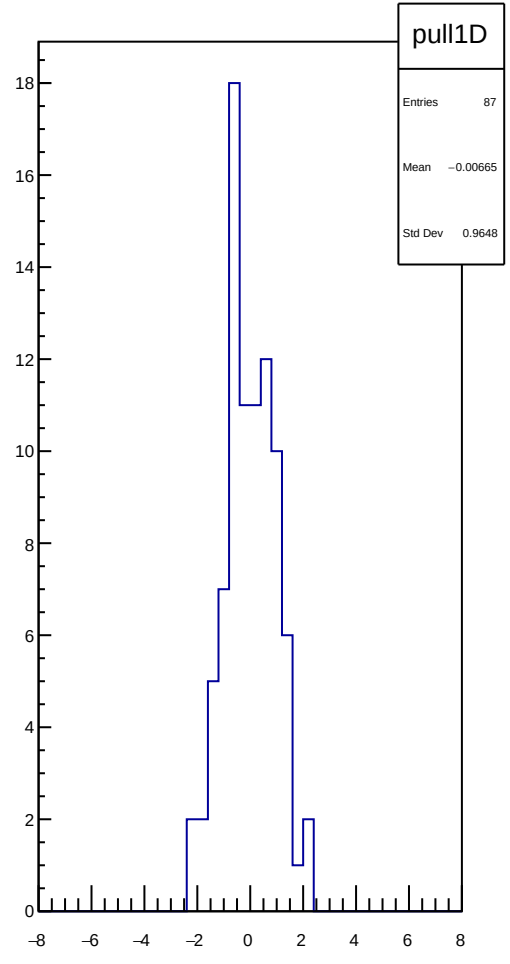

asym_at2_dd_correction_rms vs run
χ² / ndf 316.3 / 86
p0 3748 ± 2.91
3900
3850
3800
3750
3700
3650
3600

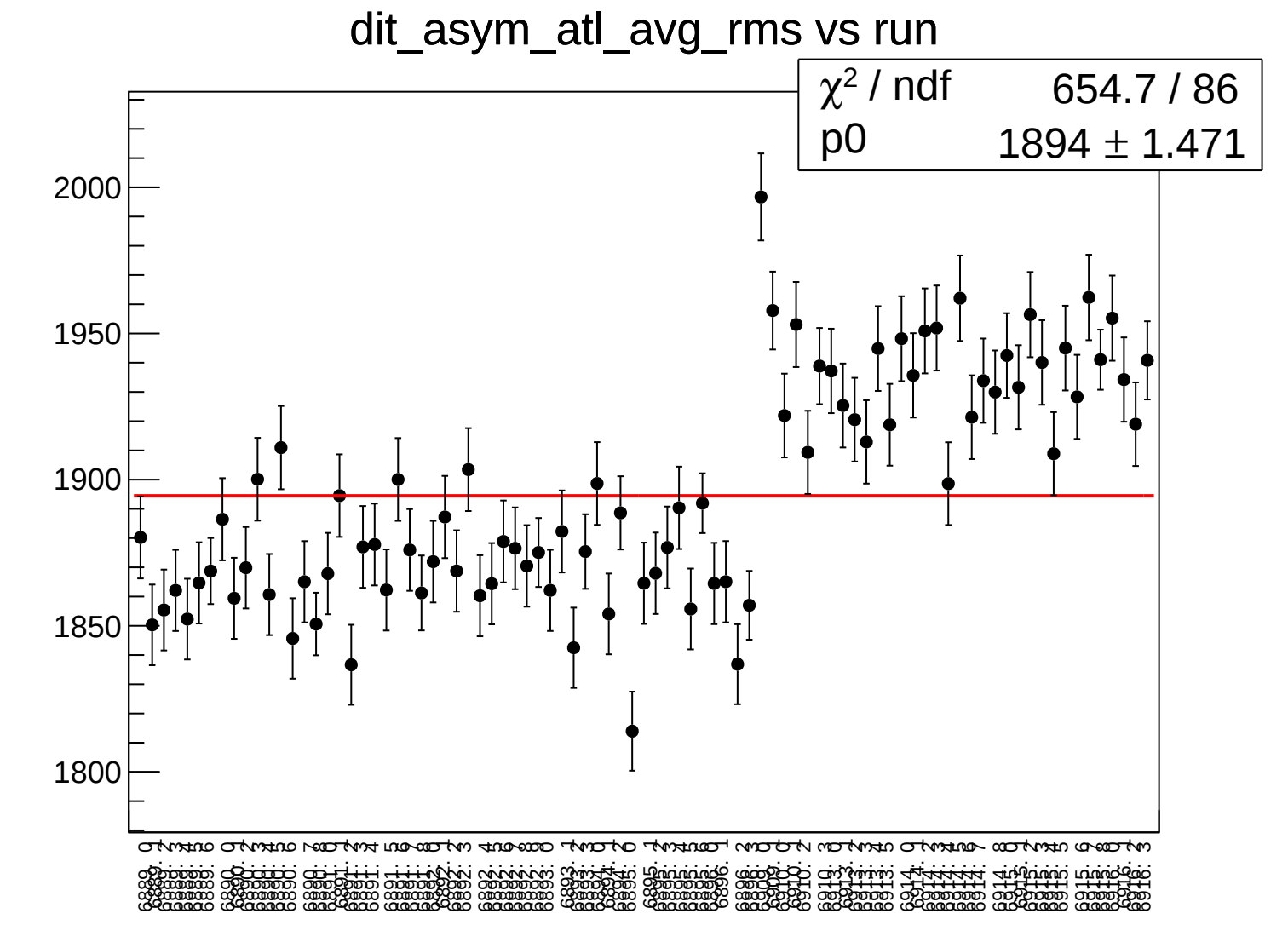

asym_at2_dd_mean vs run
χ² / ndf 71.57 / 86
p0 1024 ± 2304
pull
Entries 87
Mean −7945
Std Dev 7983

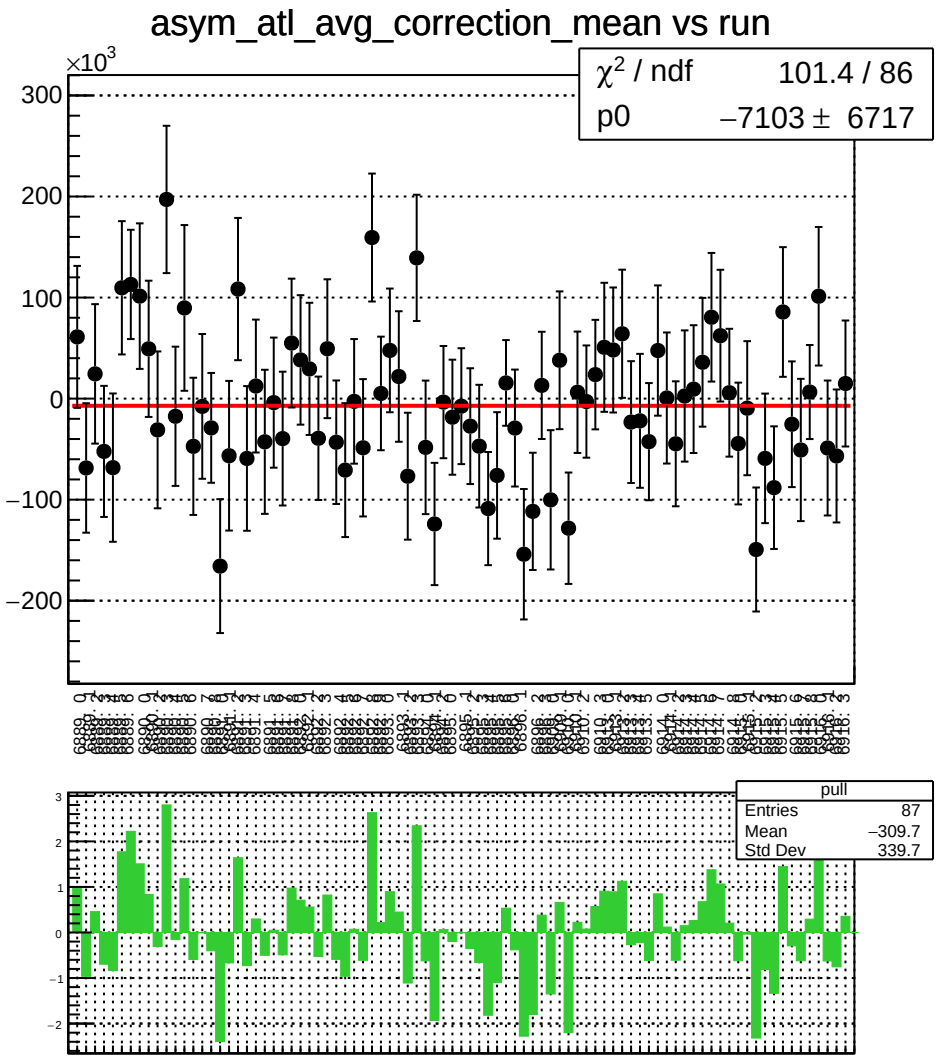

pull1D
Entries 87
Mean 0.000498
Std Dev 0.907

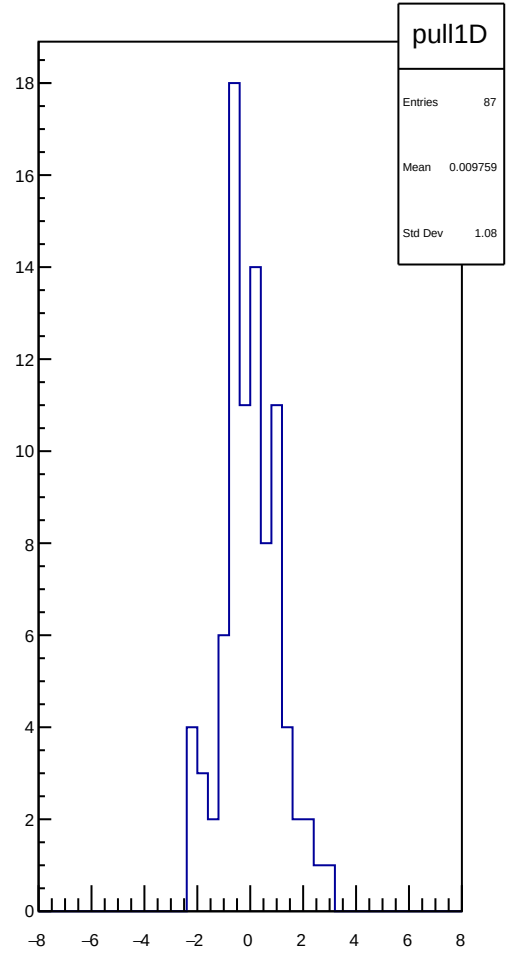

asym_at2_dd_rms vs run
χ^2 / ndf 483.5 / 86
p0 2098 ± 1.629
2200
2150
2100
2050
2000

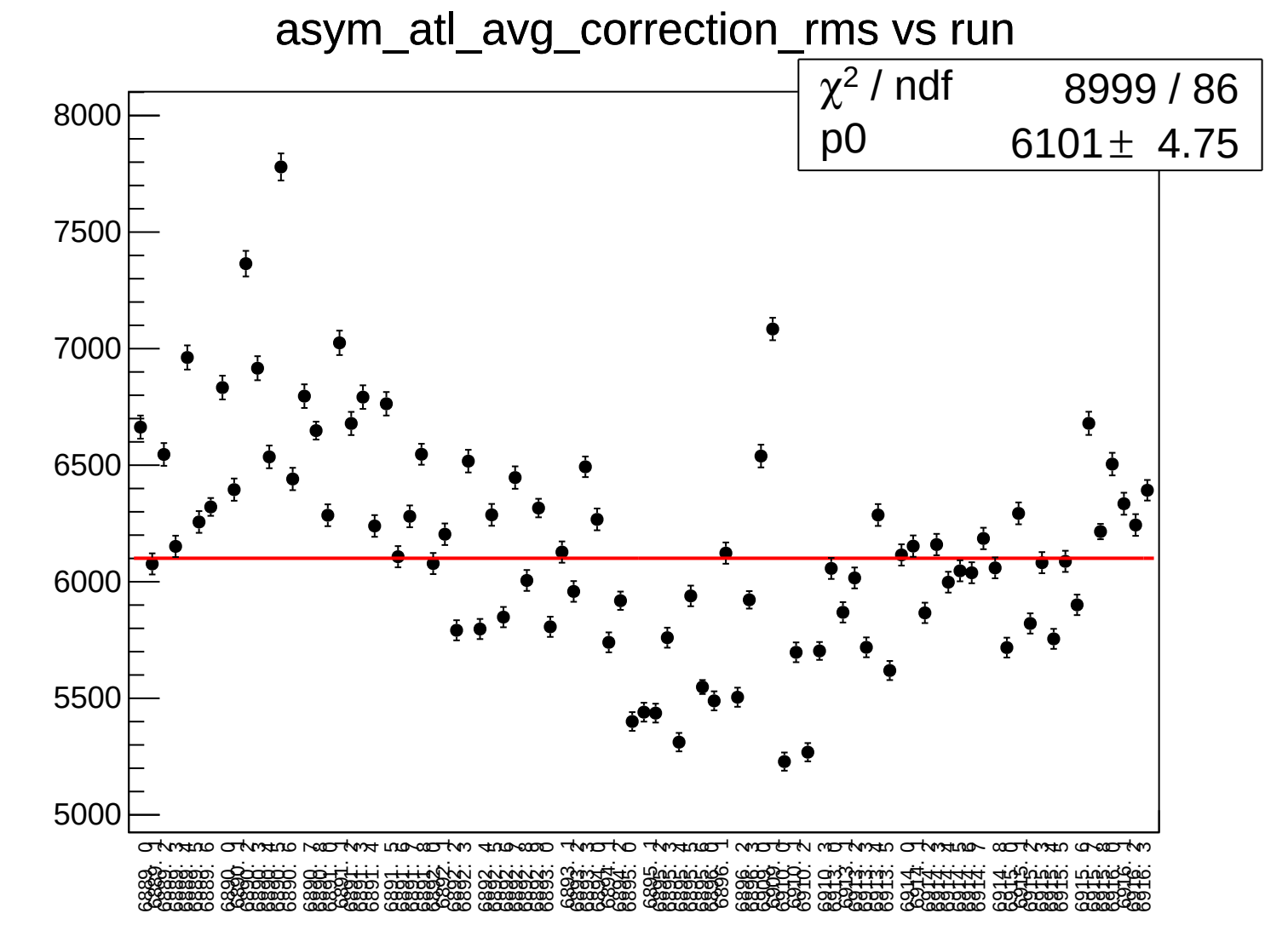

dit_asym_atl_avg_mean vs run
χ² / ndf 80.99 / 86
p0 −5960 ± 2081
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −398.7
Std Dev 430.8
2
1
0
−1
−2

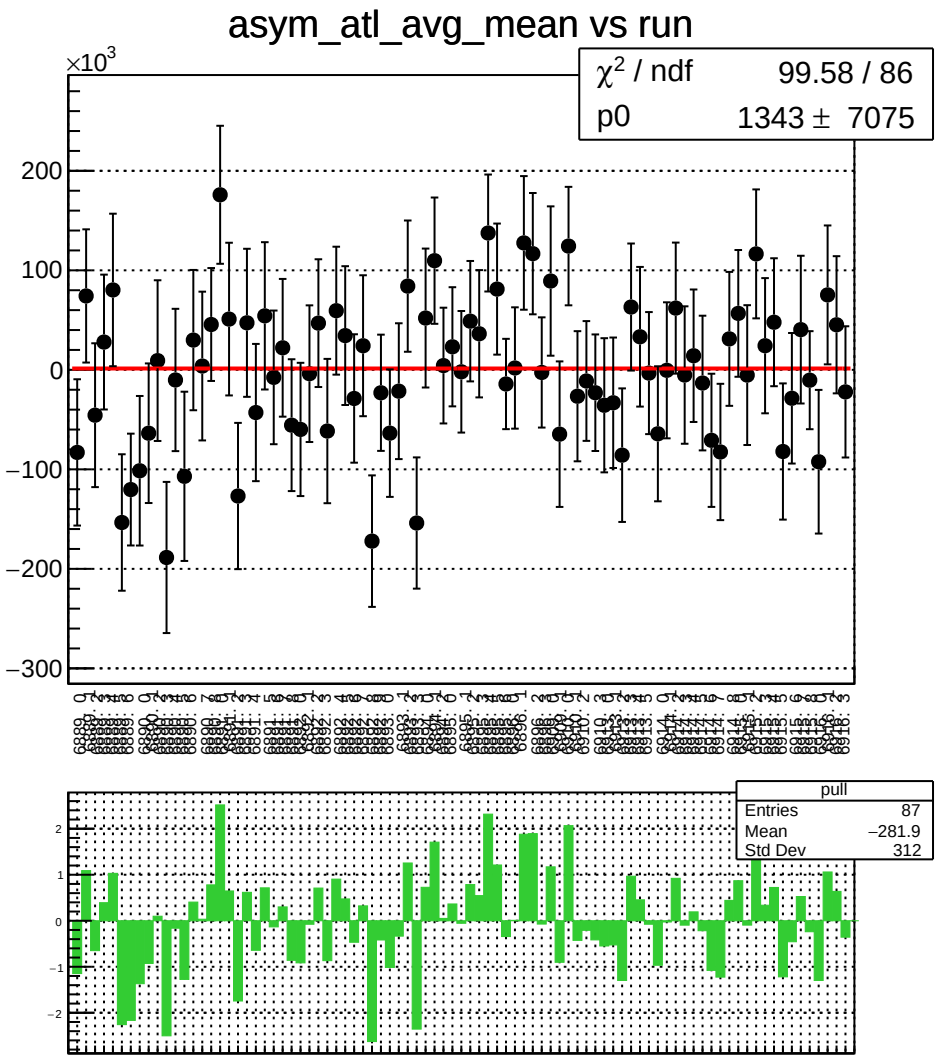

pull1D
Entries 87
Mean −0.00665
Std Dev 0.9648
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

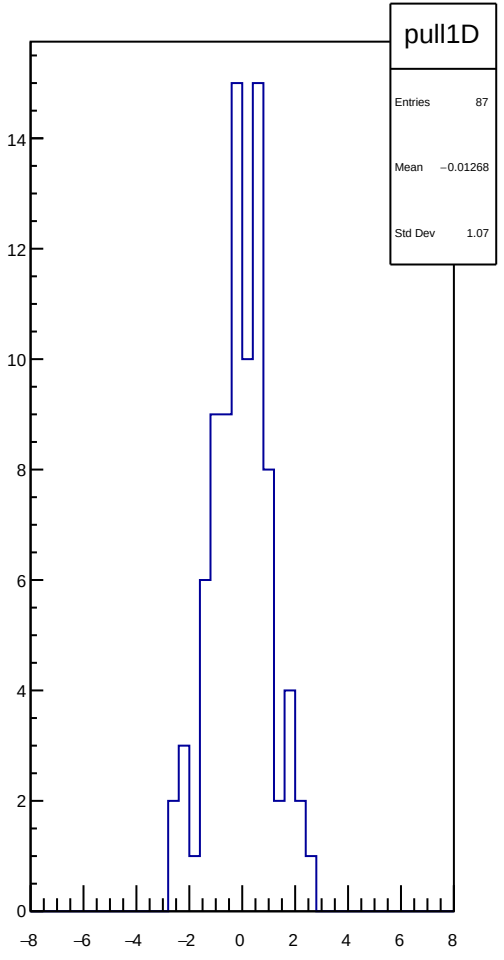

dit_asym_atl_avg_rms vs run
χ² / ndf 654.7 / 86
p0 1894 ± 1.471
2000
1950
1900
1850
1800

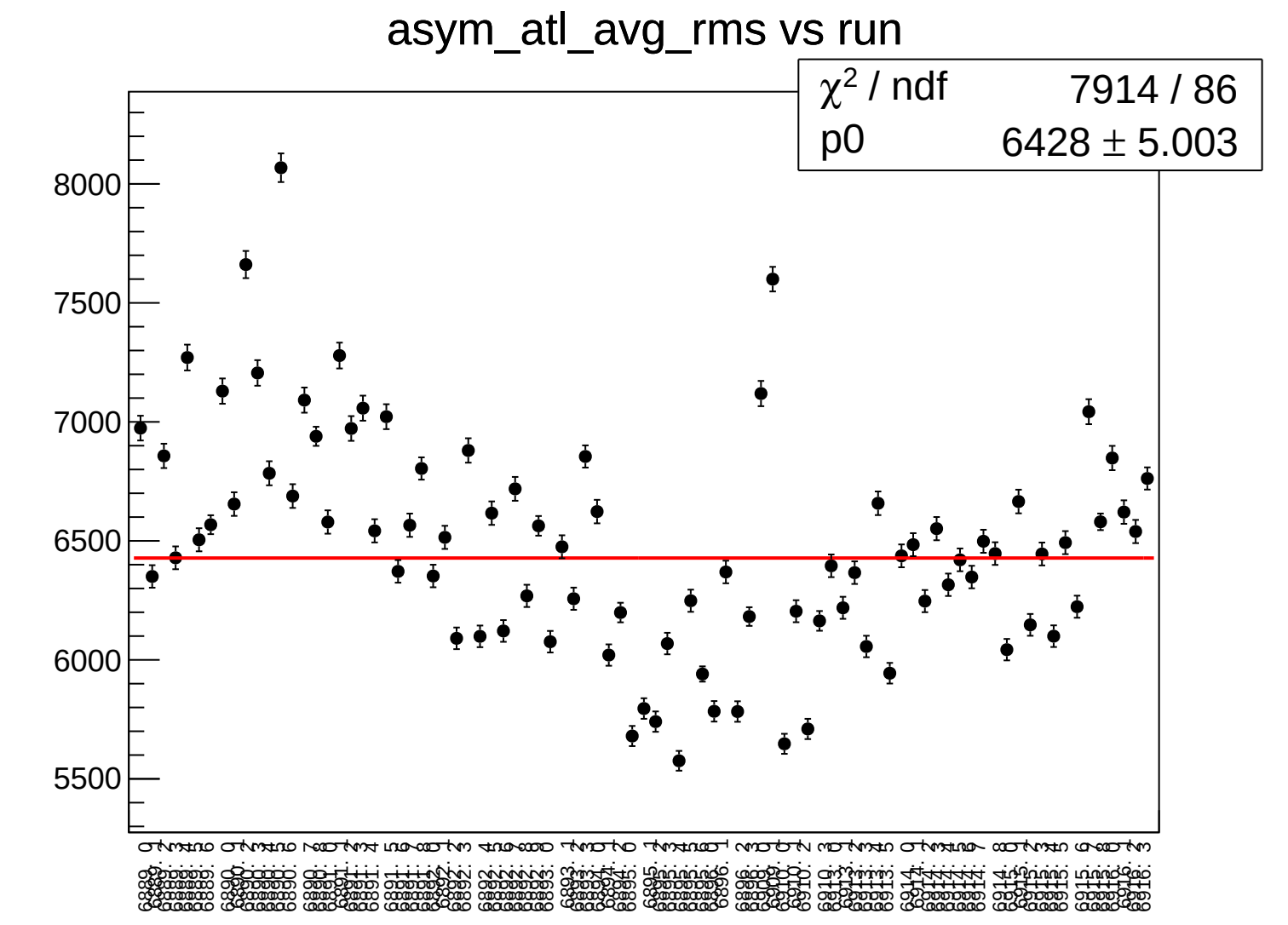

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 101.4 / 86
p0 −7103 ± 6717
300
200
100
0
−100
−200
pull
Entries 87
Mean −309.7
Std Dev 339.7
3
2
1
0
−1
−2

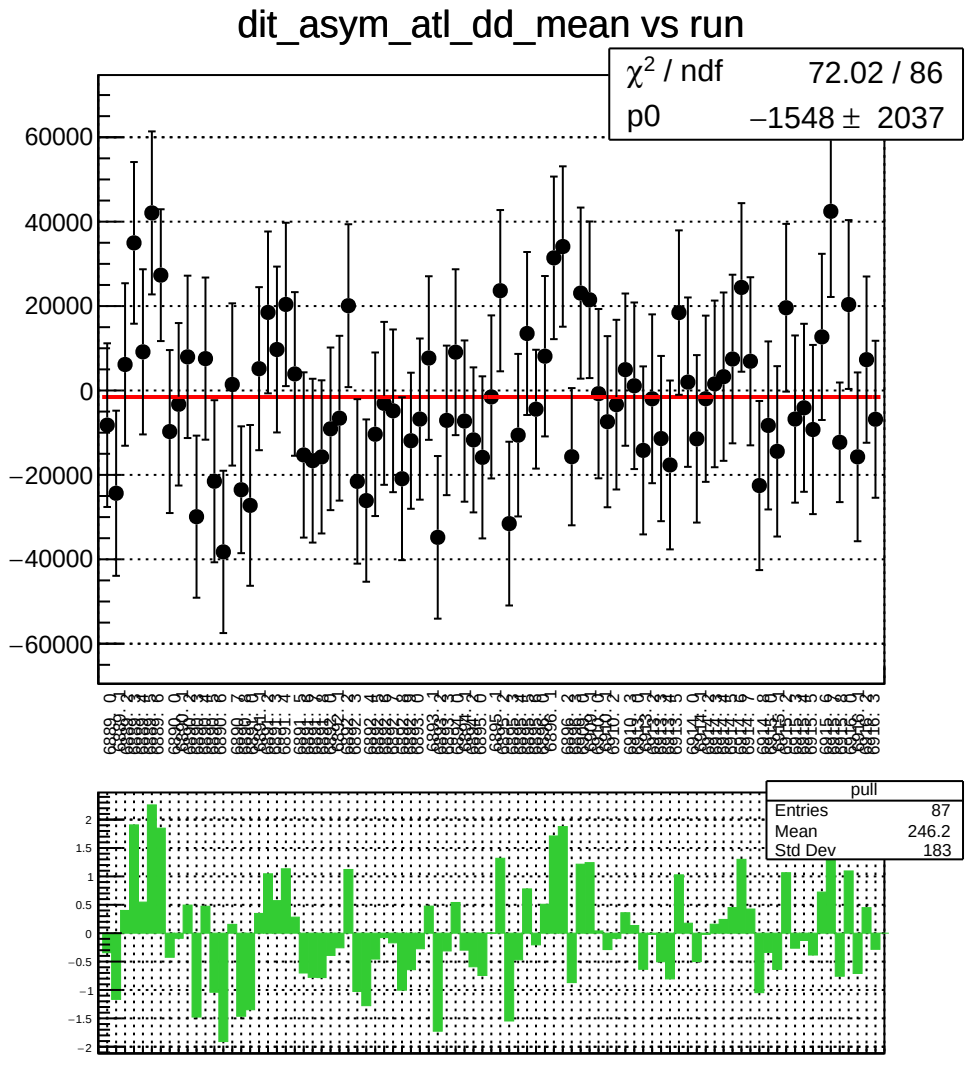

pull1D
Entries 87
Mean 0.009759
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

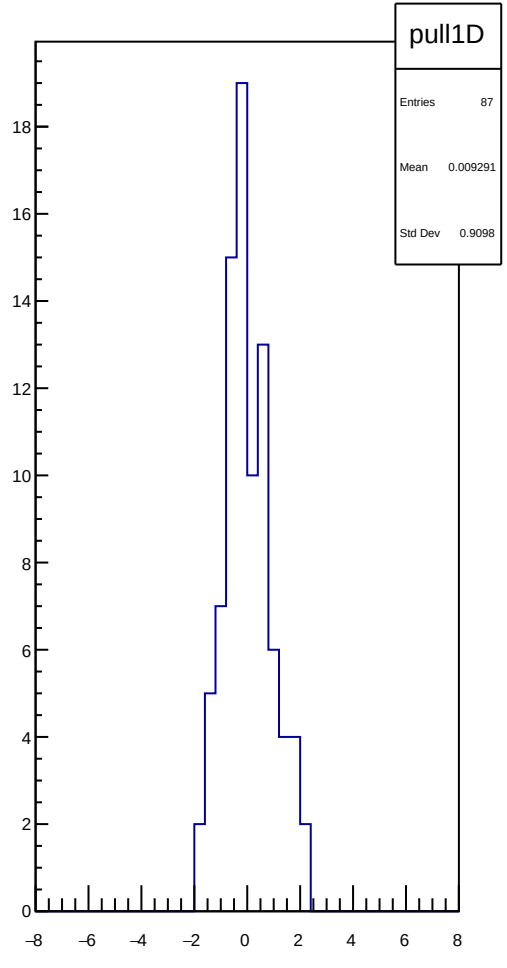

asym_atl_avg_correction_rms vs run
χ² / ndf 8999 / 86
p0 6101 ± 4.75
8000
7500
7000
6500
6000
5500
5000

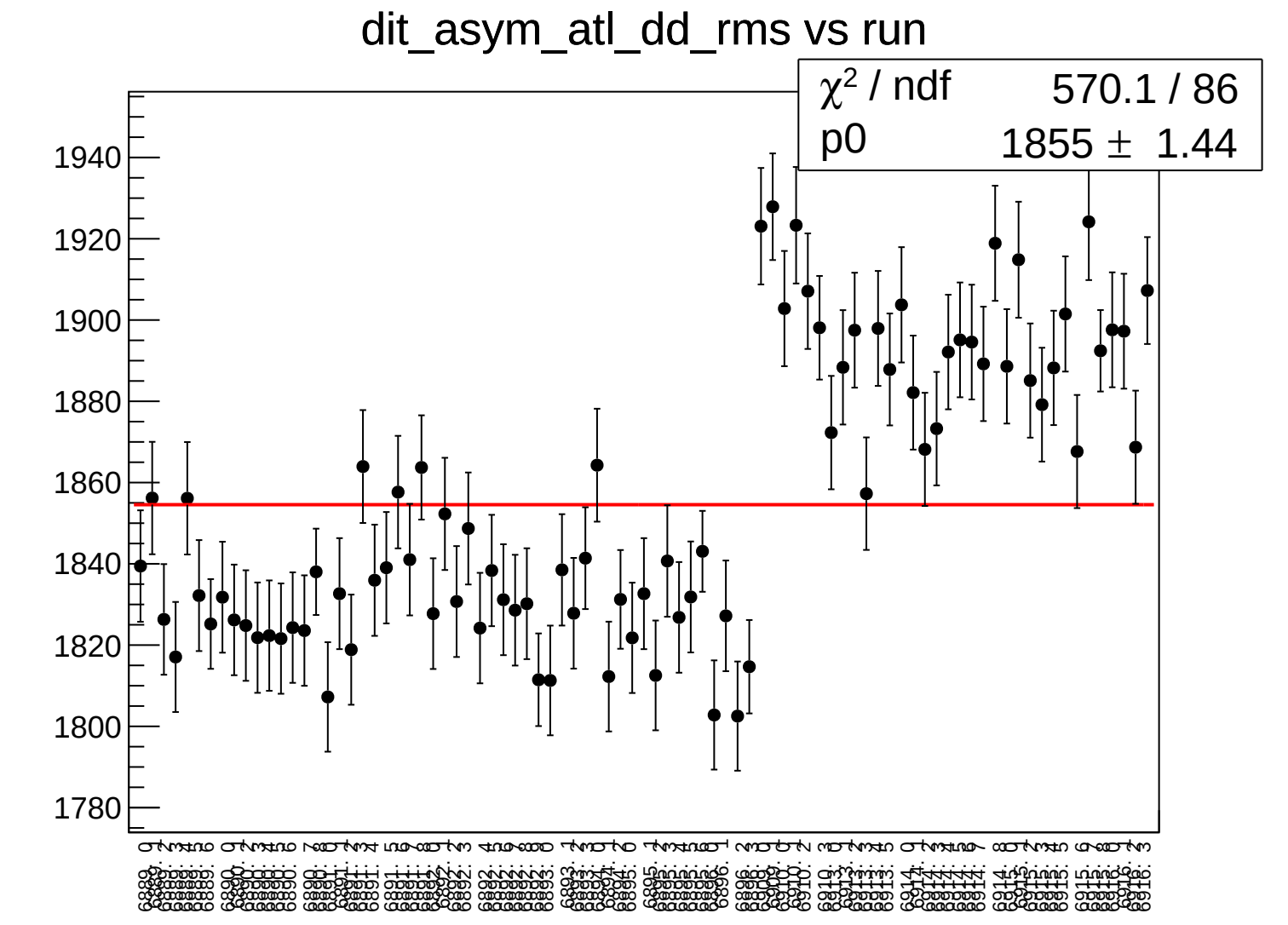

asym_atl_avg_mean vs run
×10^3
χ² / ndf 99.58 / 86
p0 1343 ± 7075
200
100
0
−100
−200
−300
pull
Entries 87
Mean −281.9
Std Dev 312
2
1
0
−1
−2

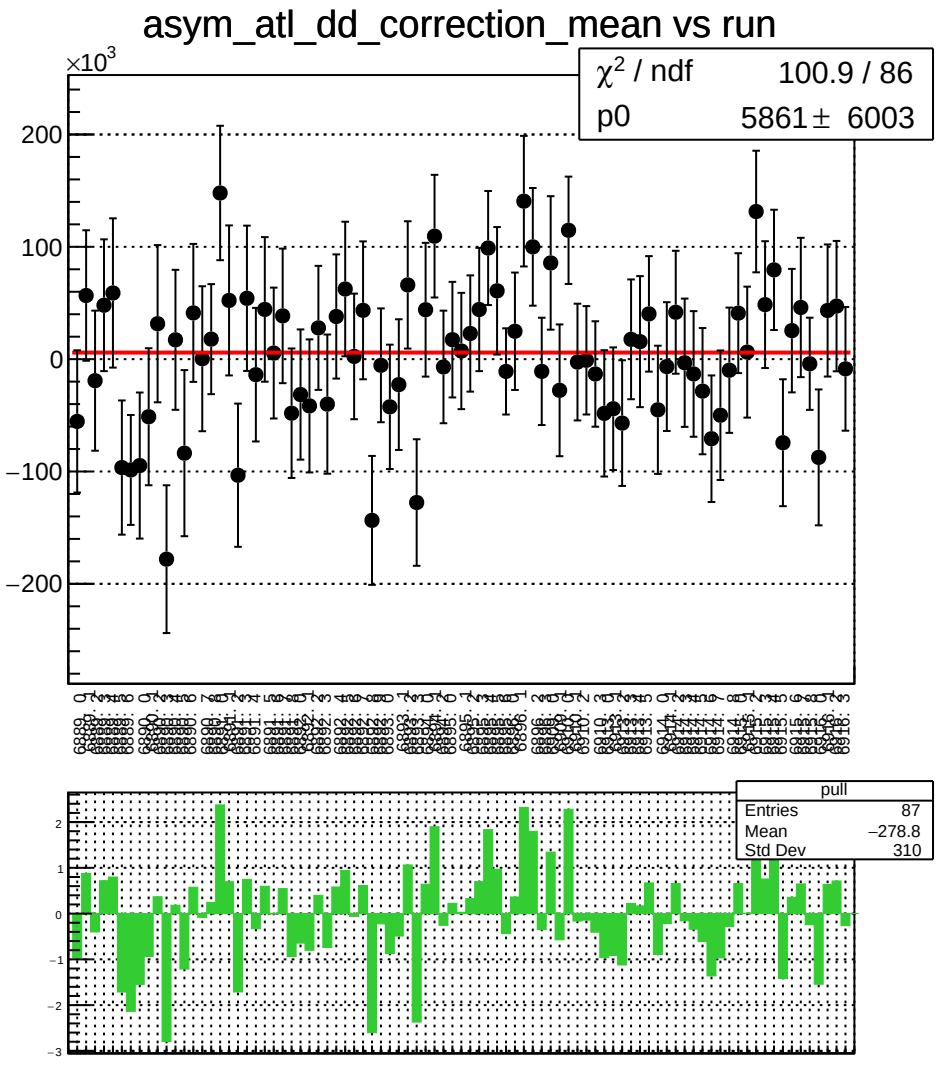

pull1D
Entries 87
Mean −0.01268
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

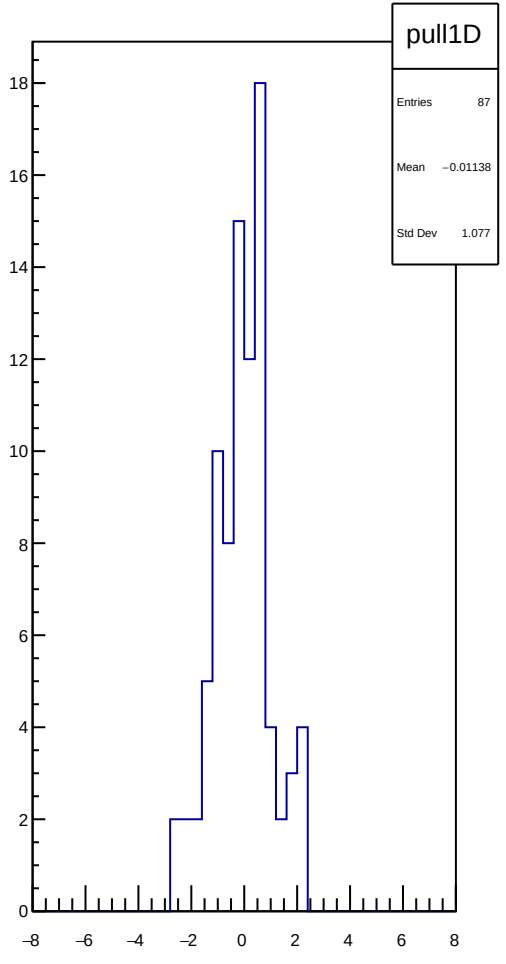

asym_atl_avg_rms vs run
χ² / ndf 7914 / 86
p0 6428 ± 5.003
8000
7500
7000
6500
6000
5500

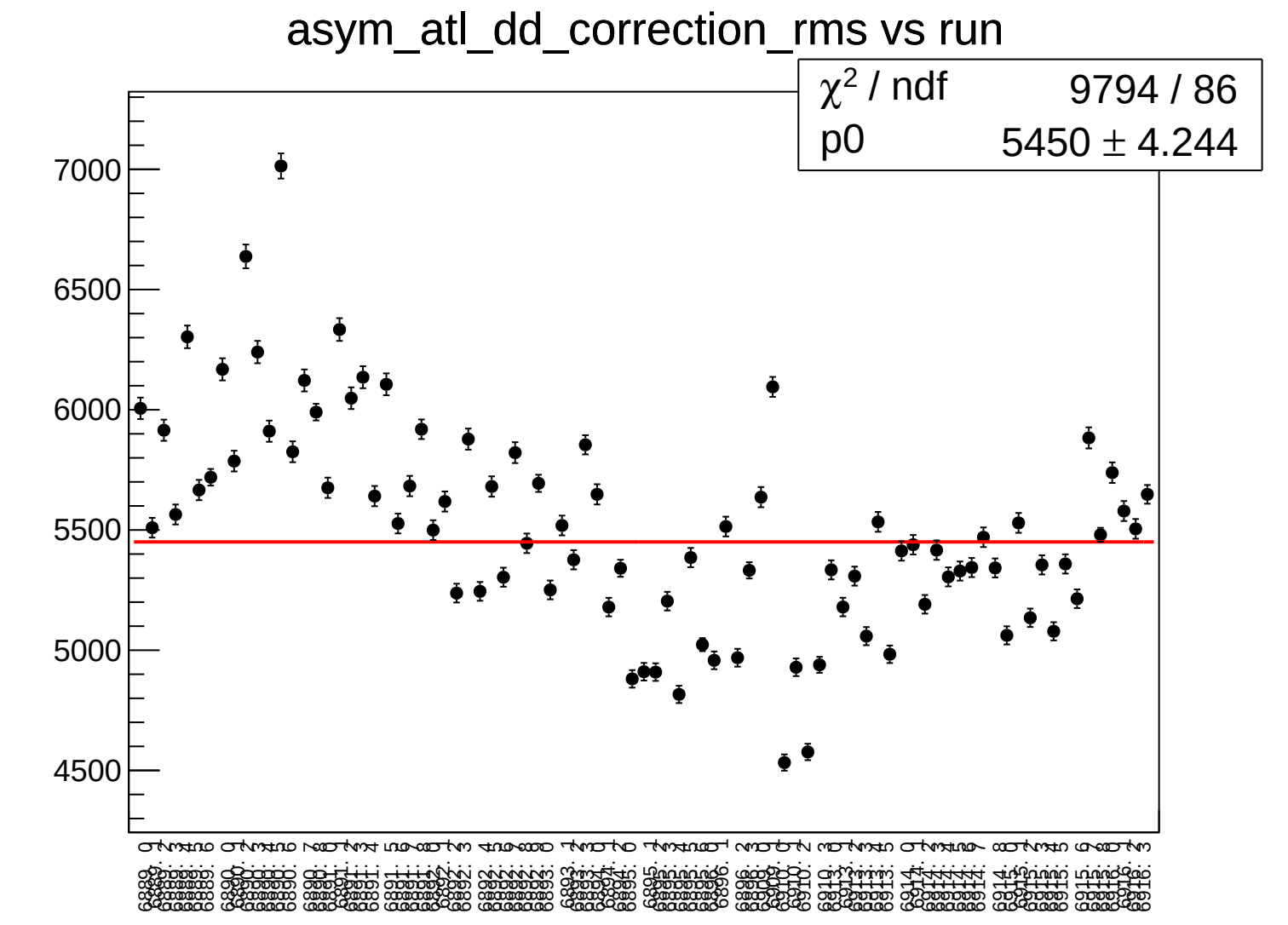

dit_asym_atl_dd_mean vs run
χ² / ndf 72.02 / 86
p0 −1548 ± 2037
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 246.2
Std Dev 183
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

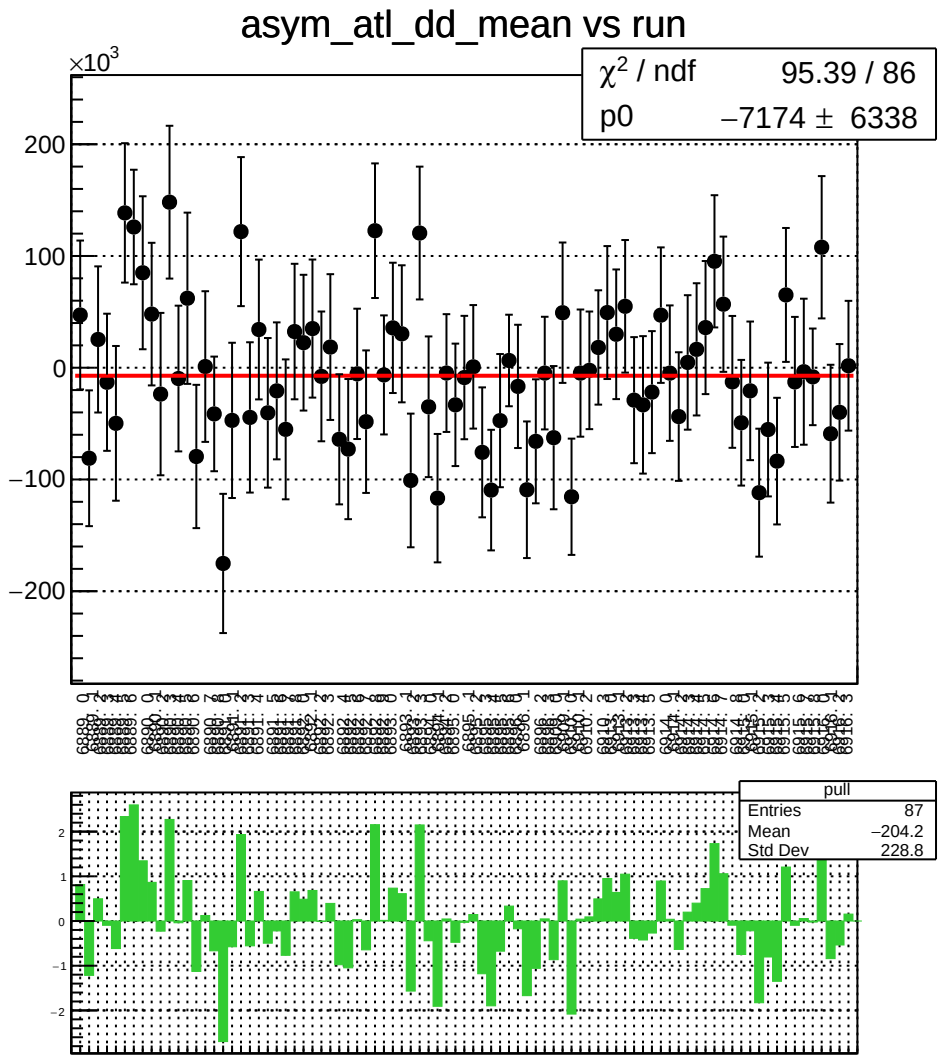

pull1D
Entries 87
Mean 0.009291
Std Dev 0.9098
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

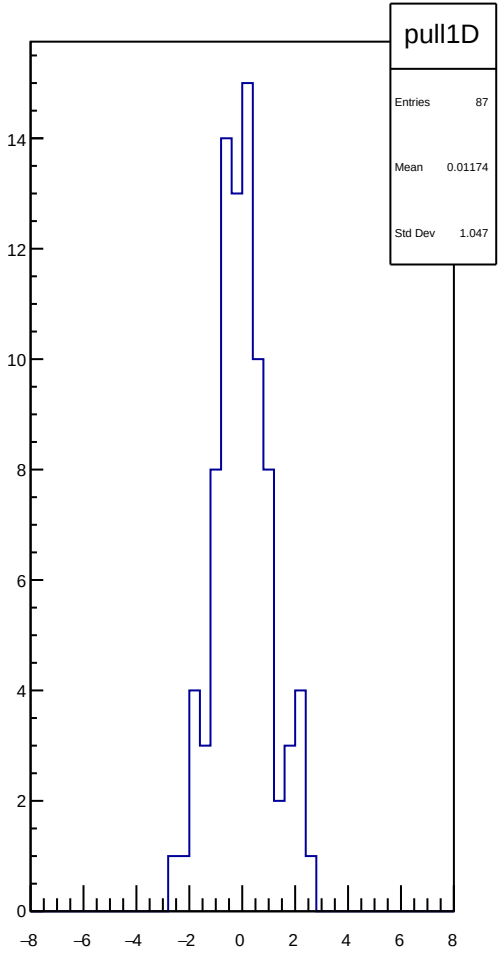

dit_asym_atl_dd_rms vs run
χ² / ndf 570.1 / 86
p0 1855 ± 1.44
1940
1920
1900
1880
1860
1840
1820
1800
1780

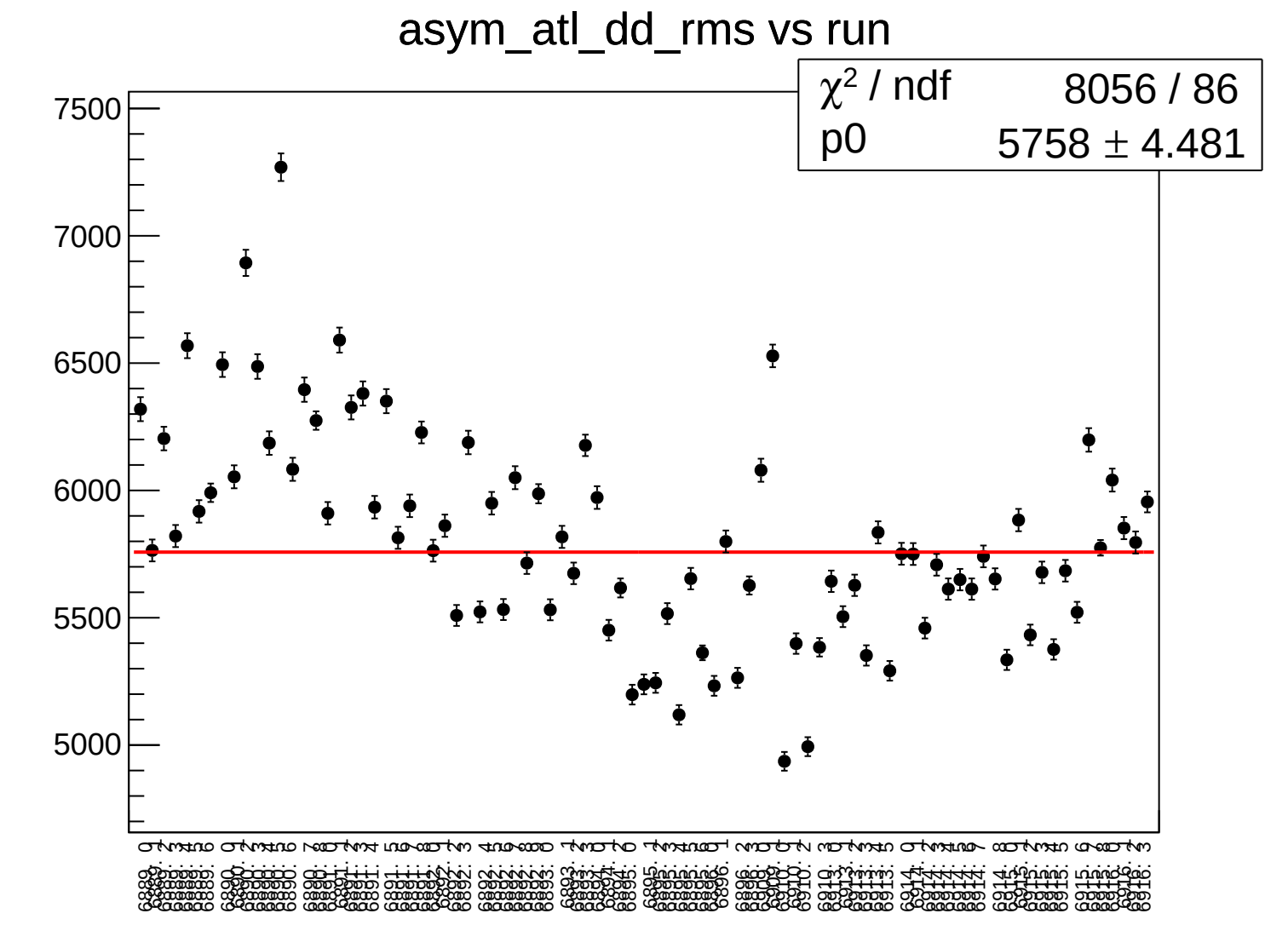

asym_atl_dd_correction_mean vs run
χ² / ndf 100.9 / 86
p0 5861 ± 6003
×10³
200
100
0
−100
−200
pull
Entries 87
Mean −278.8
Std Dev 310
2
1
0
−1
−2
−3

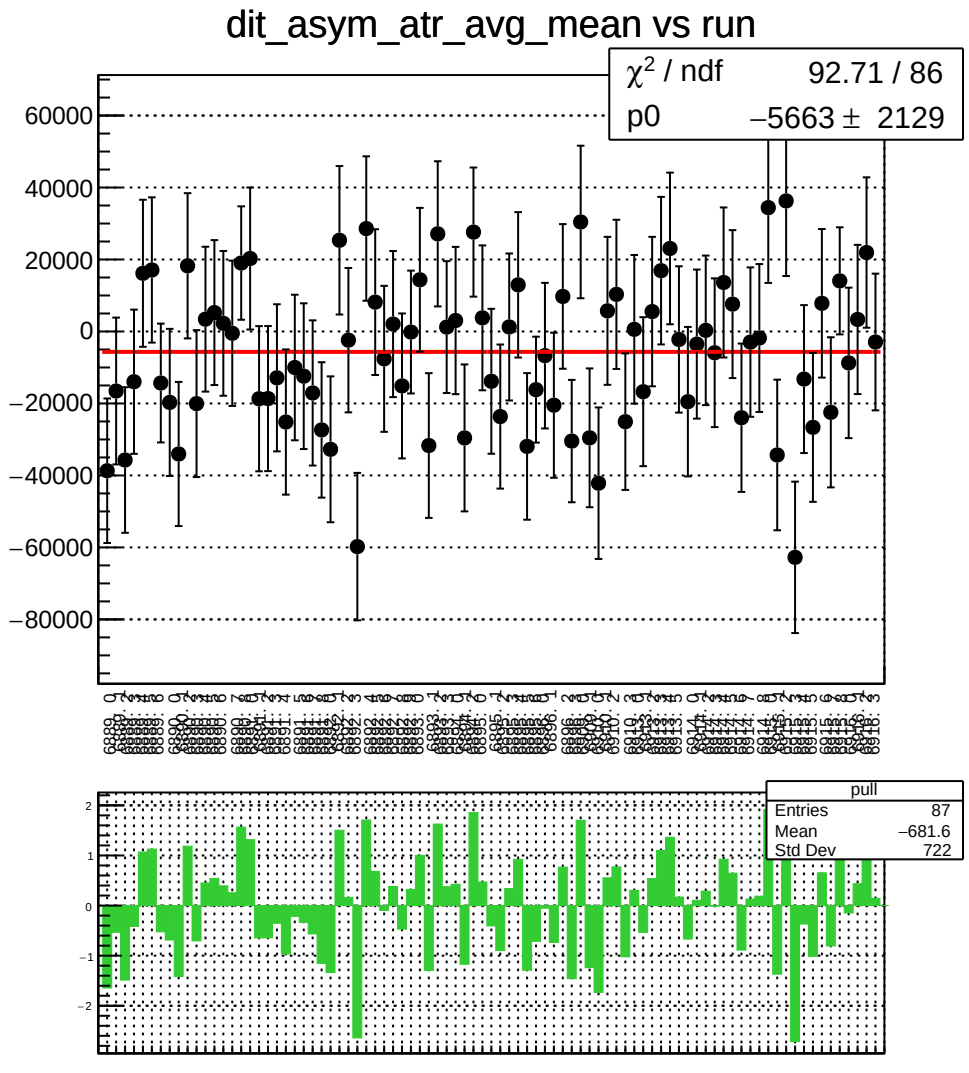

pull1D
Entries 87
Mean −0.01138
Std Dev 1.077
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

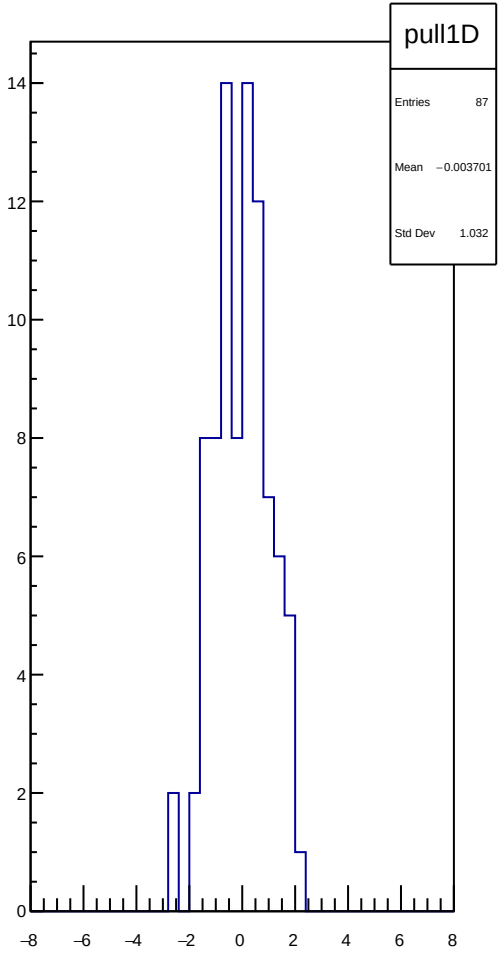

asym_atl_dd_correction_rms vs run
χ² / ndf 9794 / 86
p0 5450 ± 4.244
7000
6500
6000
5500
5000
4500

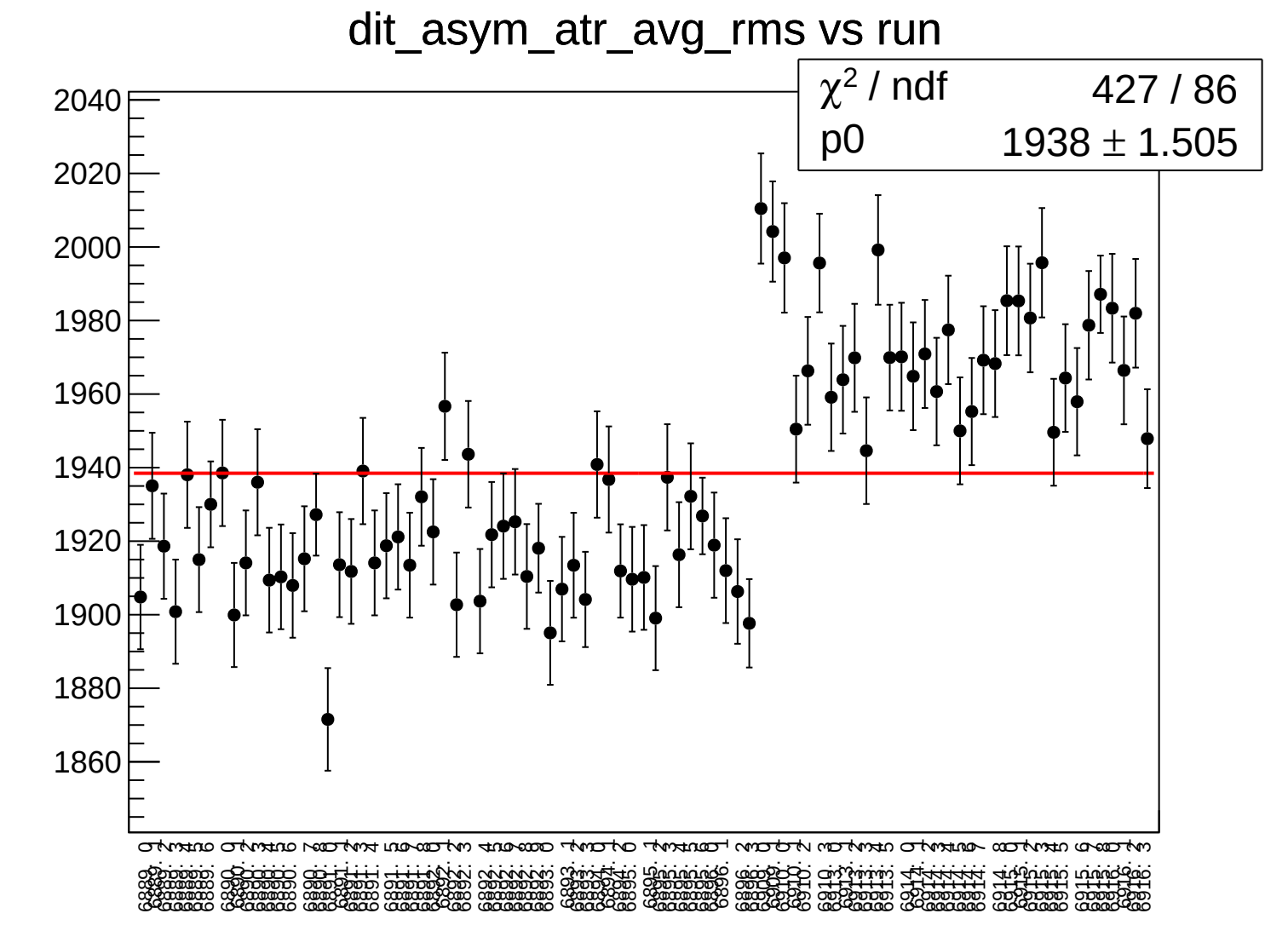

asym_atl_dd_mean vs run
×10^3
χ² / ndf 95.39 / 86
p0 −7174 ± 6338
200
100
0
−100
−200
pull
Entries 87
Mean −204.2
Std Dev 228.8
2
1
0
−1
−2

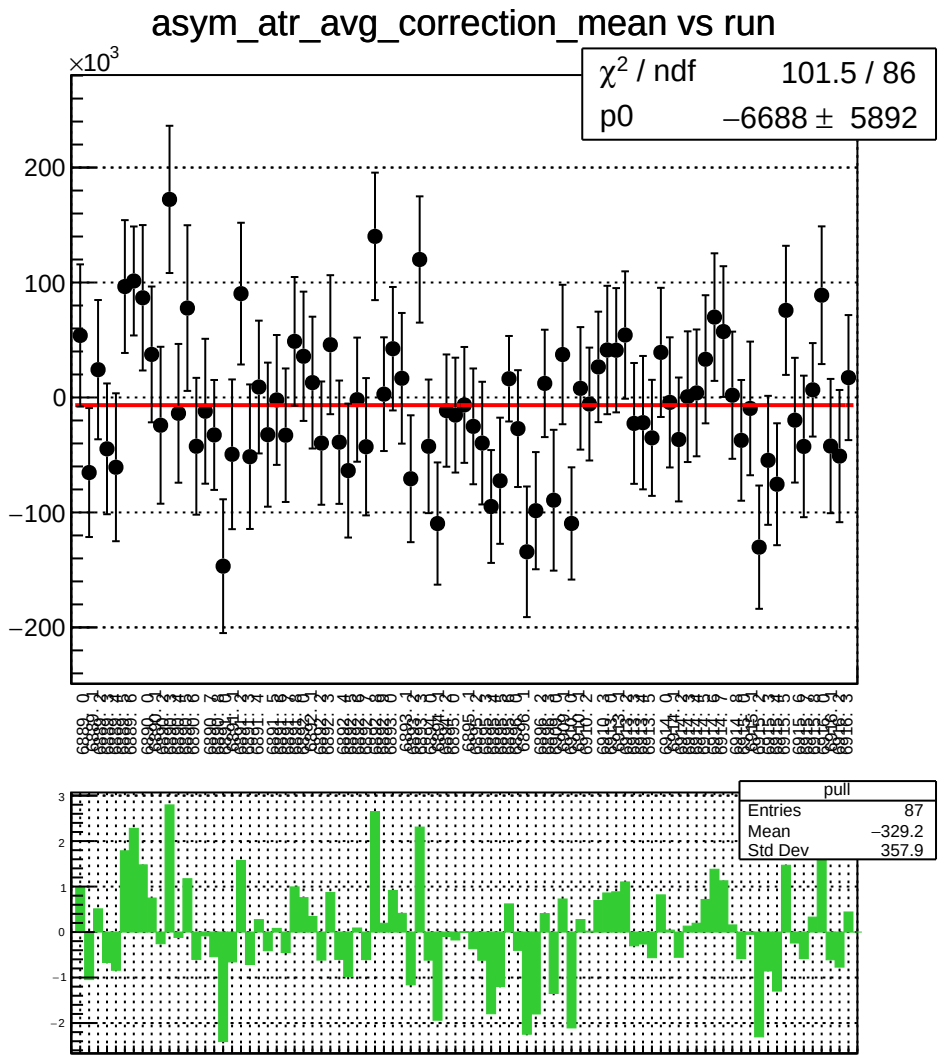

pull1D
Entries 87
Mean 0.01174
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

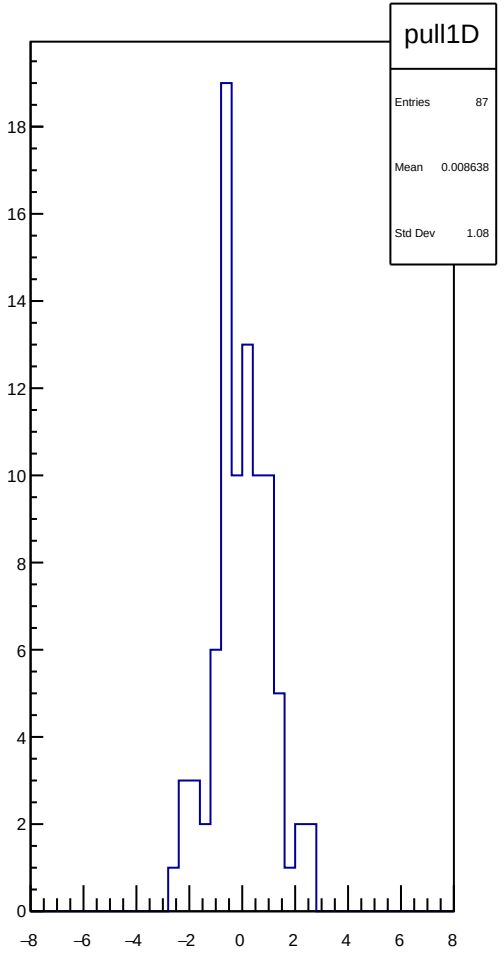

asym_atl_dd_rms vs run
χ^2 / ndf 8056 / 86
p0 5758 ± 4.481
7500
7000
6500
6000
5500
5000

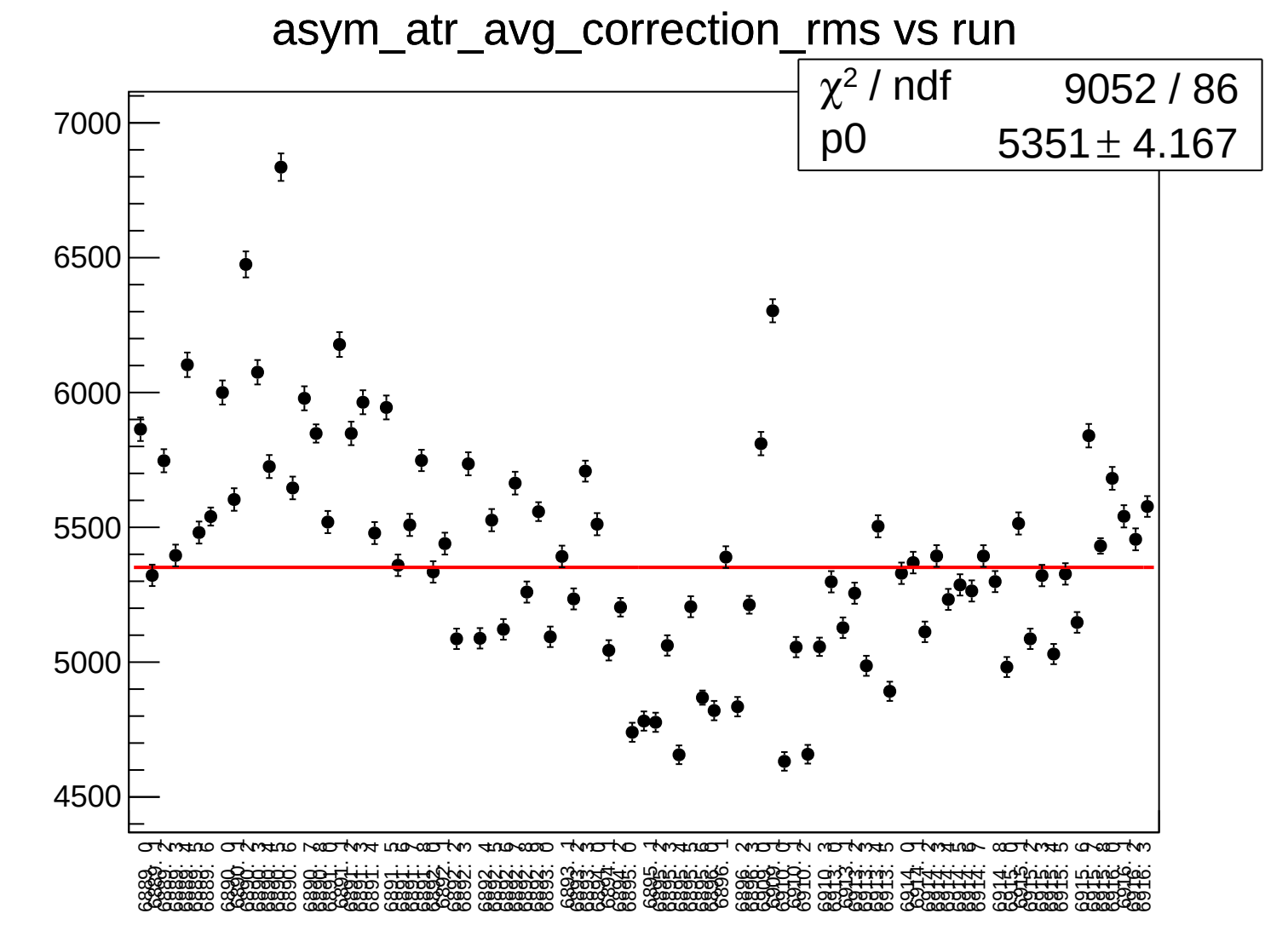

dit_asym_atr_avg_mean vs run
χ² / ndf 92.71 / 86
p0 −5663 ± 2129
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean −681.6
Std Dev 722
2
1
0
−1
−2

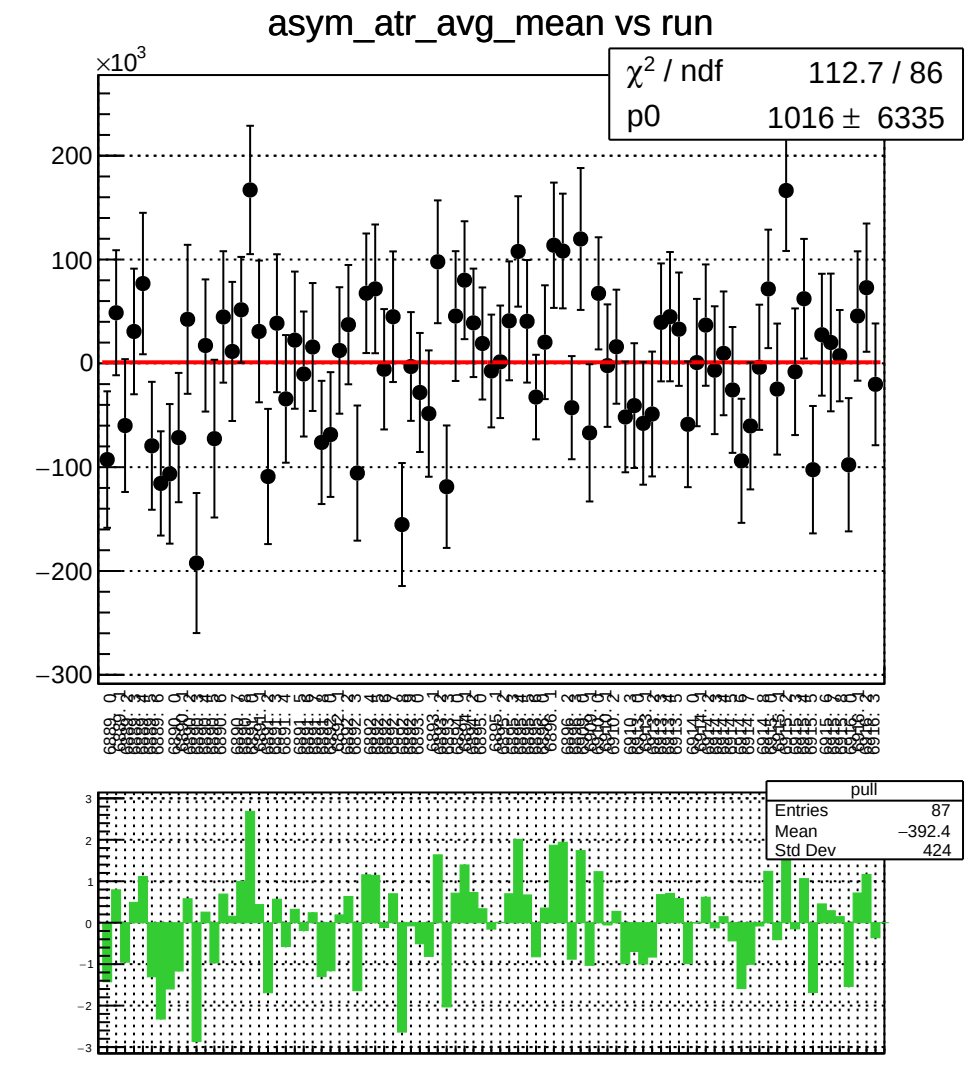

pull1D
Entries 87
Mean −0.003701
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

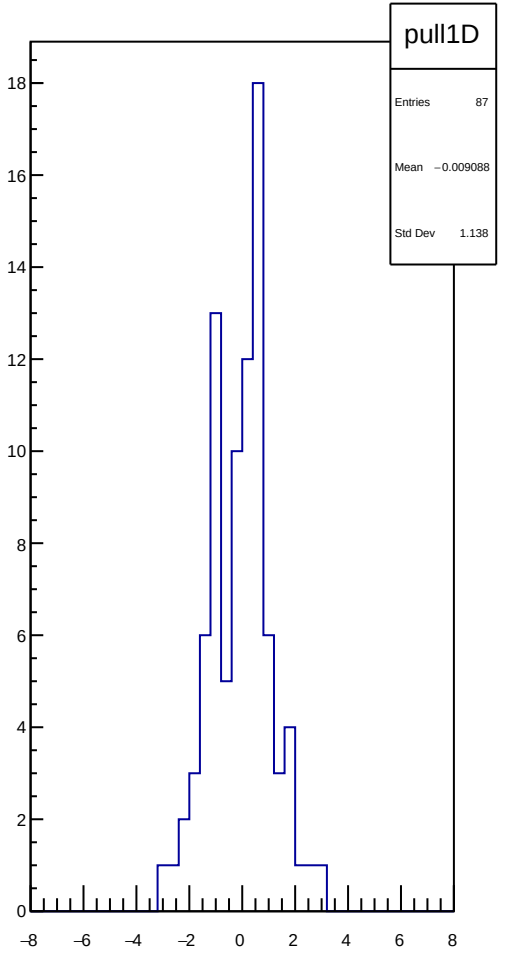

dit_asym_atr_avg_rms vs run
χ² / ndf 427 / 86
p0 1938 ± 1.505
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860

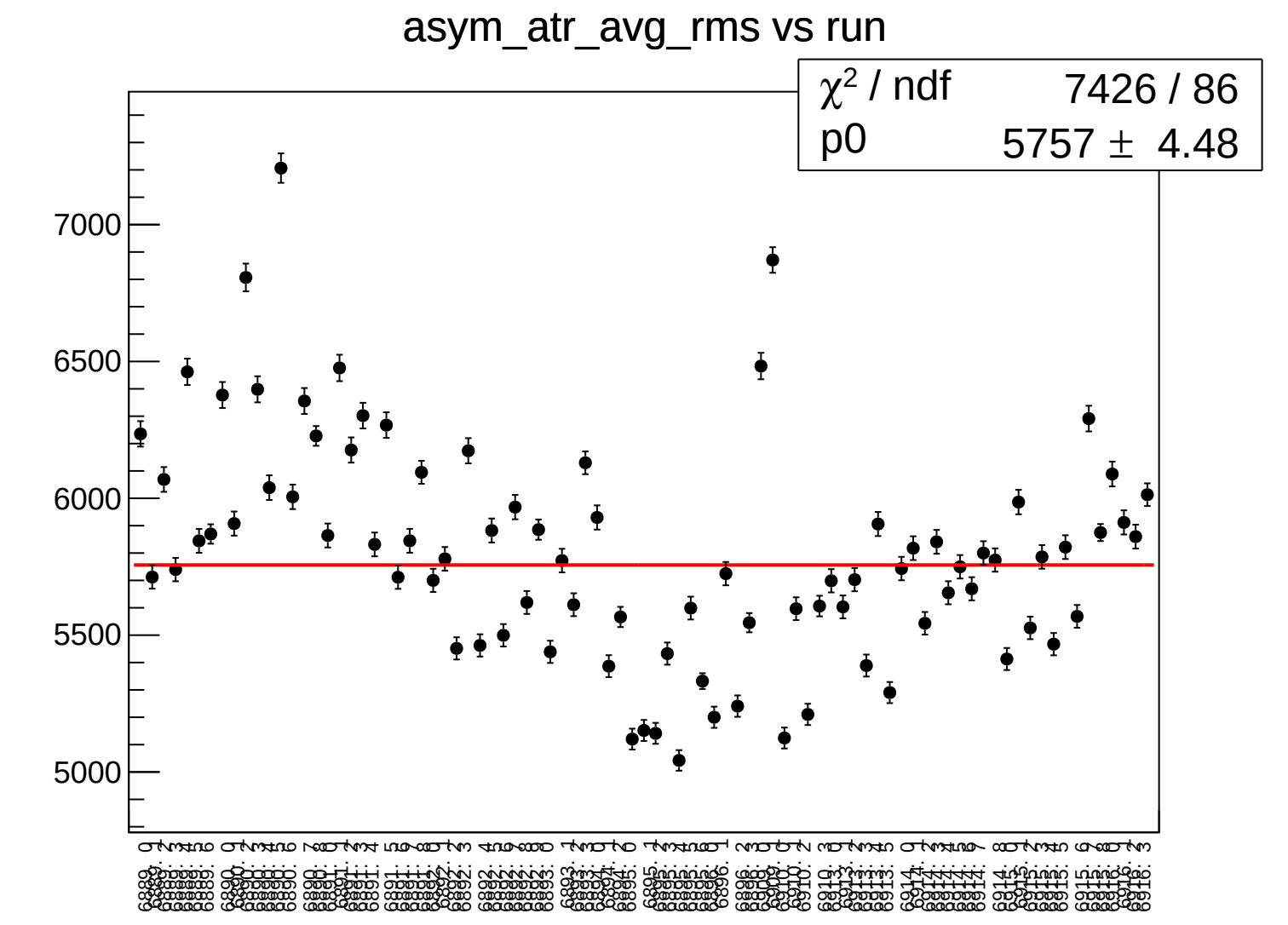

asym_atr_avg_correction_mean vs run
×10^3
χ^2 / ndf 101.5 / 86
p0 −6688 ± 5892
200
100
0
−100
−200
pull
Entries 87
Mean −329.2
Std Dev 357.9
3
2
1
0
−1
−2

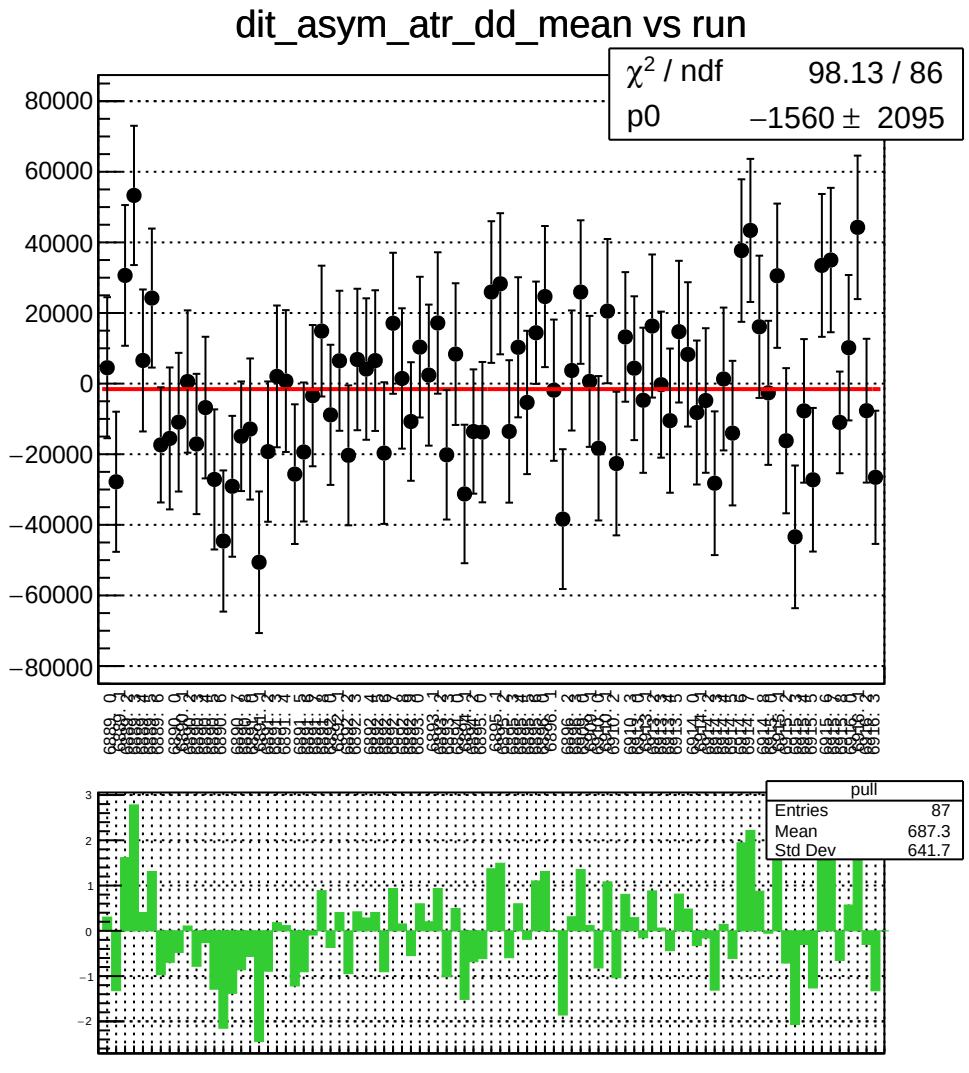

pull1D
Entries 87
Mean 0.008638
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

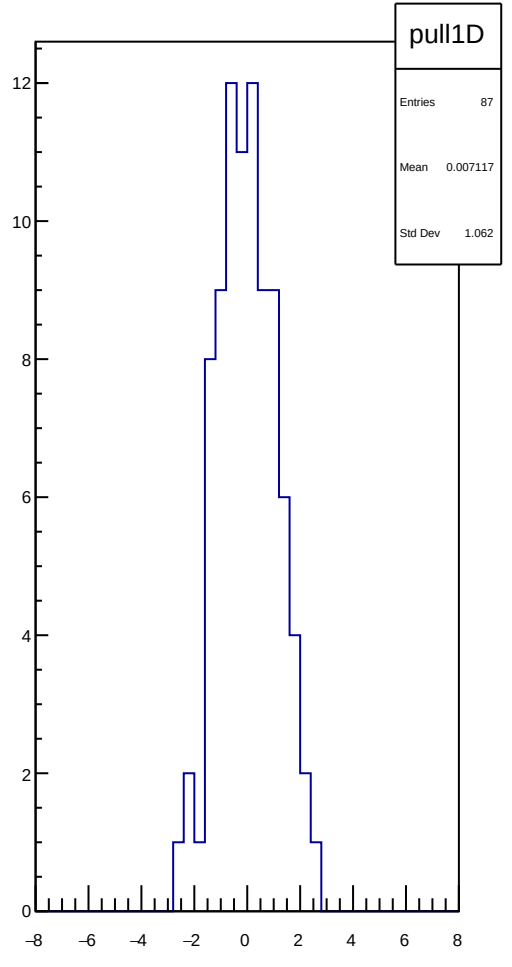

asym_atr_avg_correction_rms vs run
χ² / ndf 9052 / 86
p0 5351 ± 4.167
7000
6500
6000
5500
5000
4500

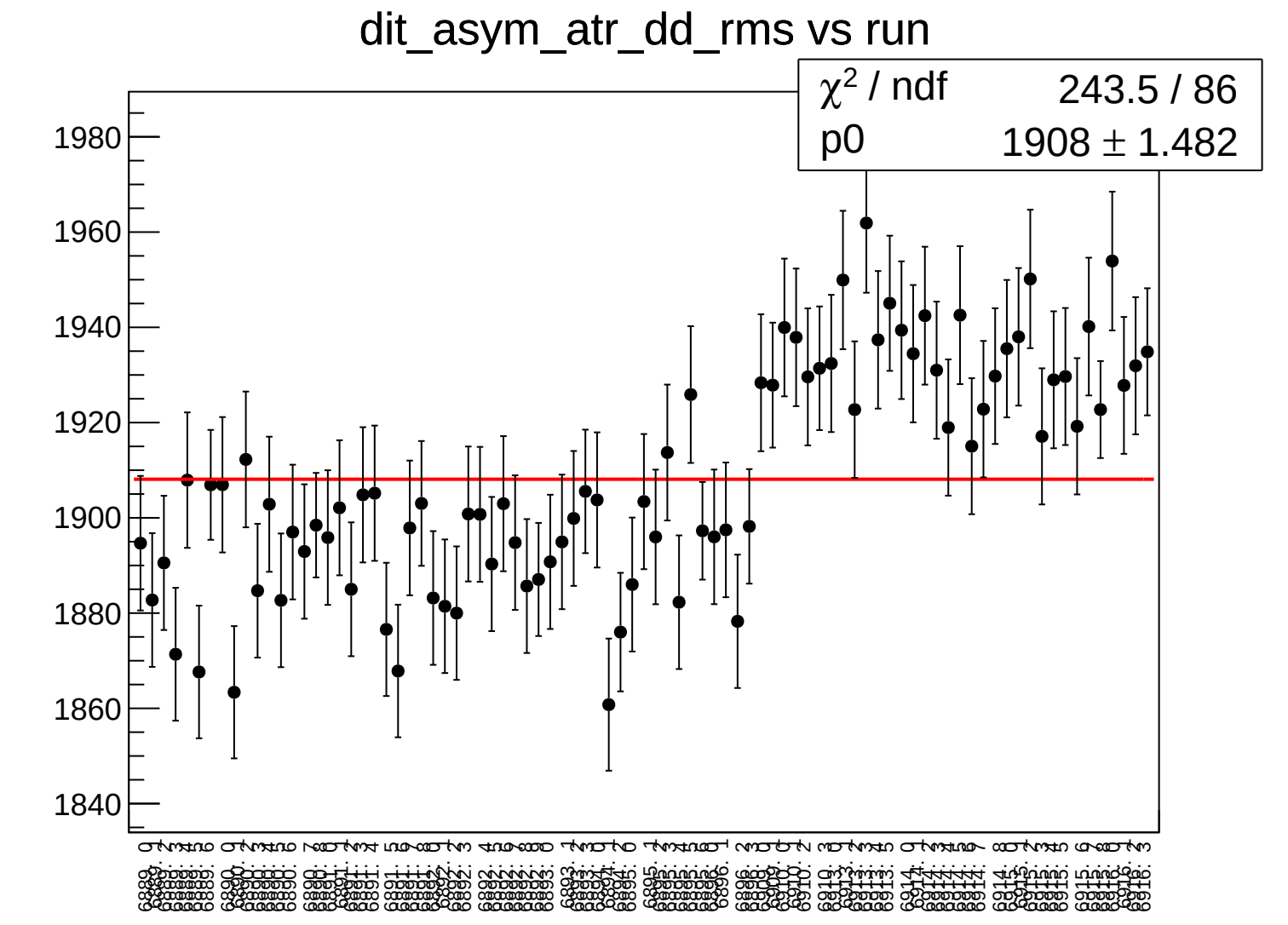

asym_atr_avg_mean vs run
×10^3
χ² / ndf 112.7 / 86
p0 1016 ± 6335
200
100
0
−100
−200
−300
pull
Entries 87
Mean −392.4
Std Dev 424
3
2
1
0
−1
−2
−3

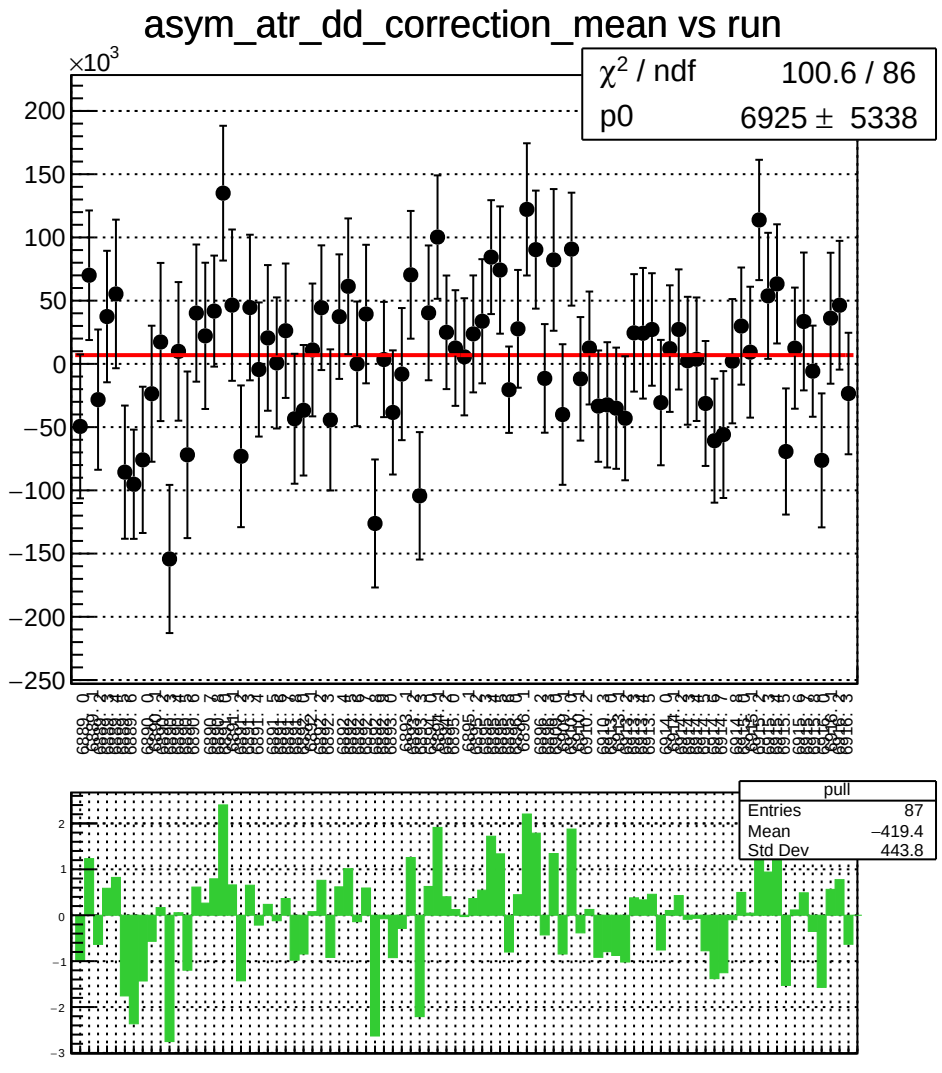

pull1D
Entries 87
Mean −0.009088
Std Dev 1.138
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

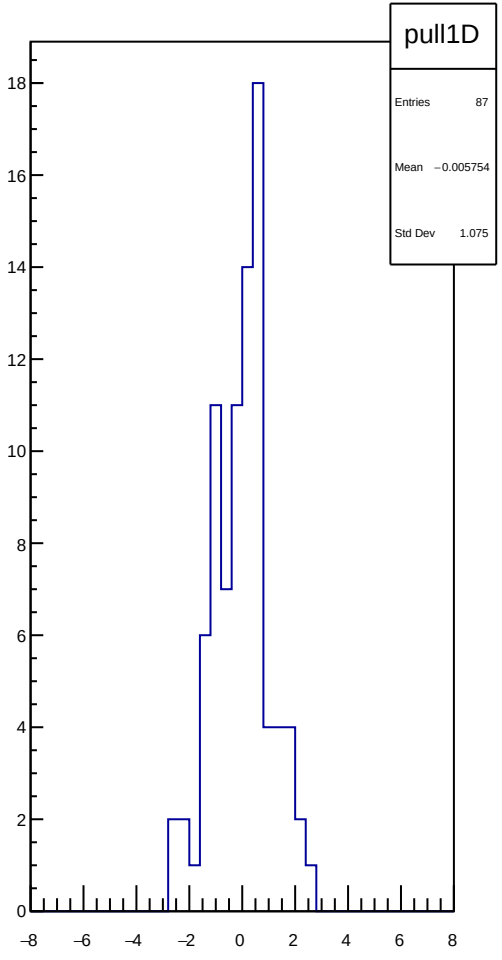

asym_atr_avg_rms vs run
χ² / ndf 7426 / 86
p0 5757 ± 4.48
7000
6500
6000
5500
5000

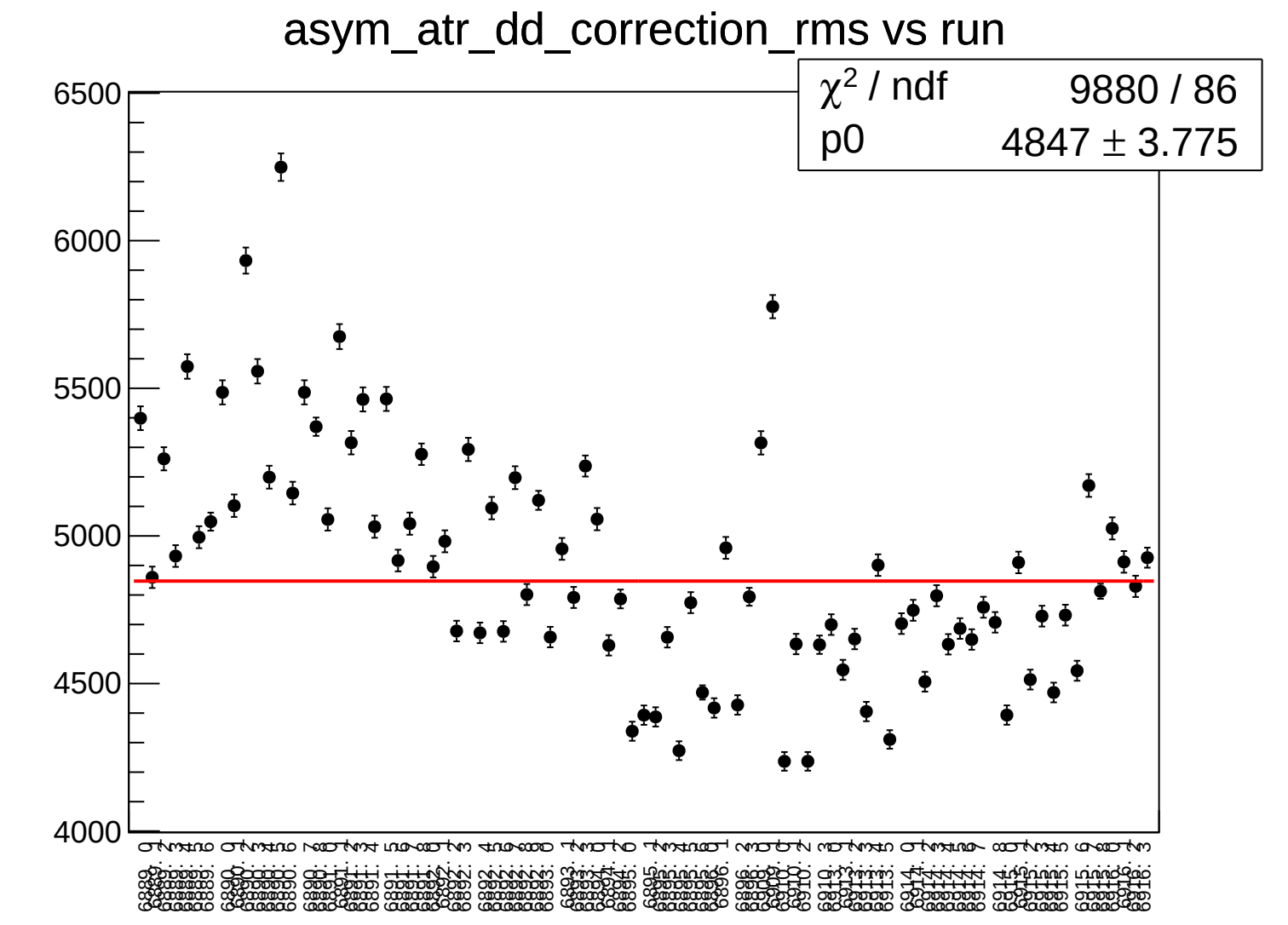

dit_asym_atr_dd_mean vs run
χ² / ndf 98.13 / 86
p0 −1560 ± 2095
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 87
Mean 687.3
Std Dev 641.7
3
2
1
0
−1
−2

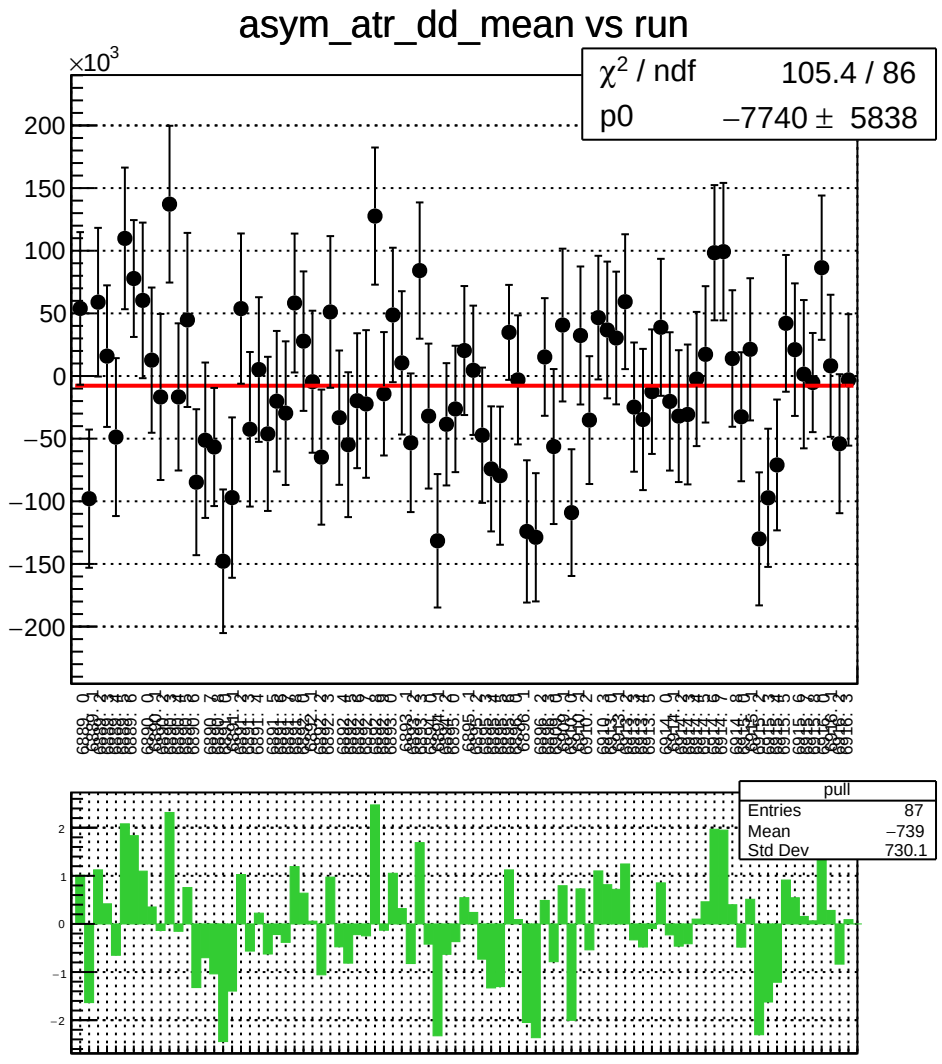

pull1D
Entries 87
Mean 0.007117
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

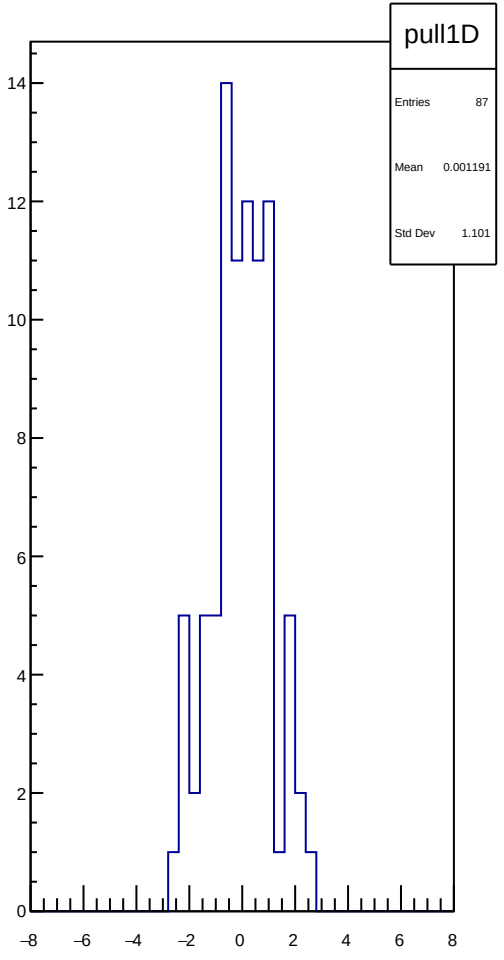

dit_asym_atr_dd_rms vs run
χ^2 / ndf 243.5 / 86
p0 1908 ± 1.482
1980
1960
1940
1920
1900
1880
1860
1840

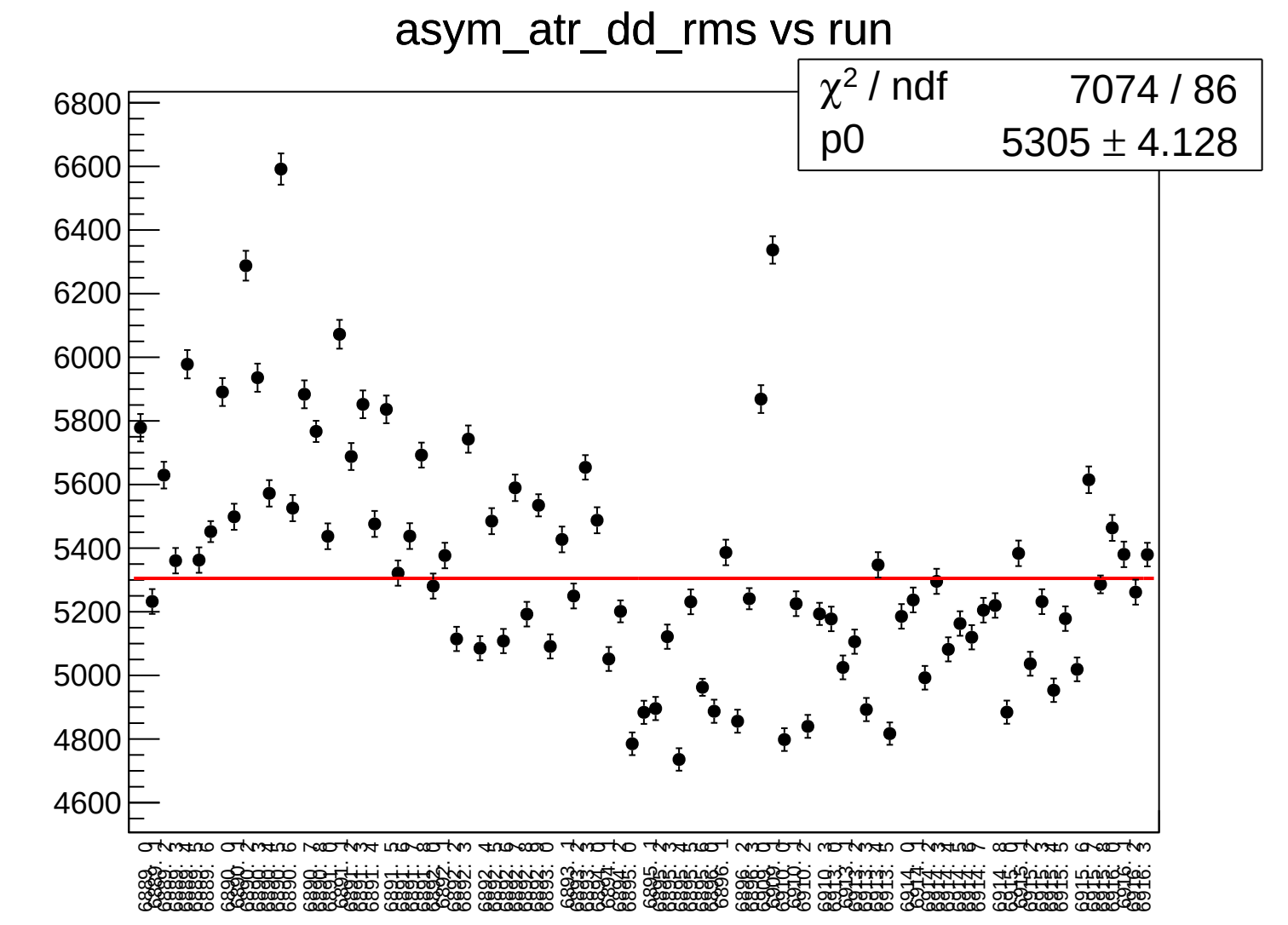

asym_atr_dd_correction_mean vs run
×10^3
χ^2 / ndf 100.6 / 86
p0 6925 ± 5338
pull
Entries 87
Mean −419.4
Std Dev 443.8

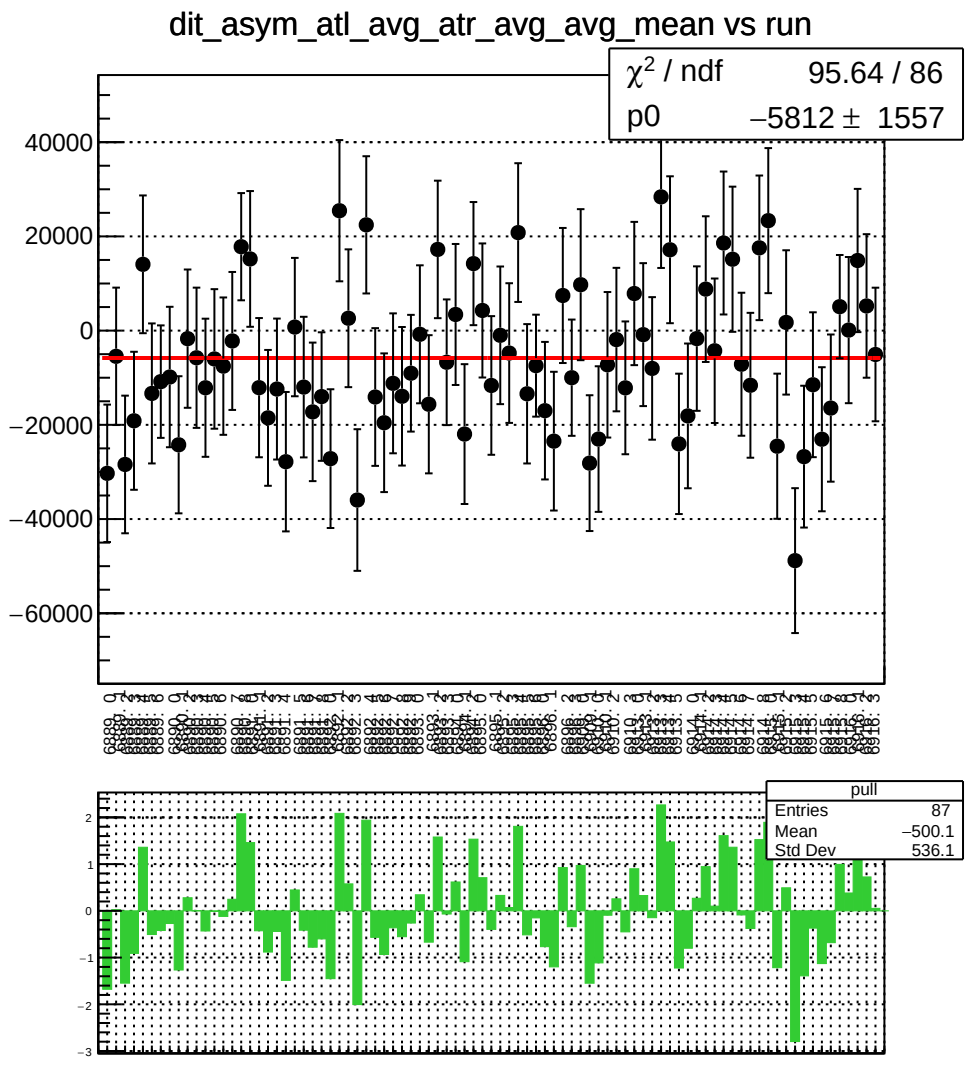

pull1D
Entries 87
Mean −0.005754
Std Dev 1.075

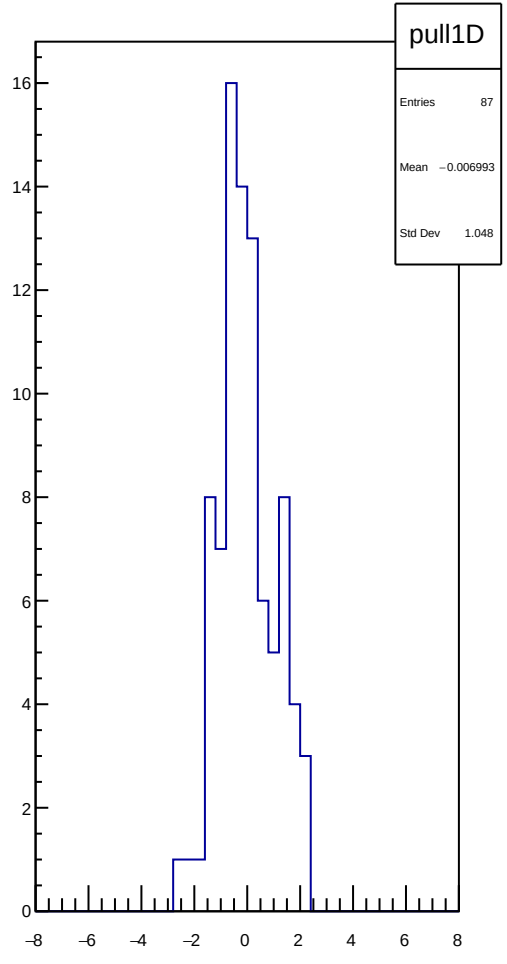

asym_atr_dd_correction_rms vs run
χ² / ndf 9880 / 86
p0 4847 ± 3.775
6500
6000
5500
5000
4500
4000

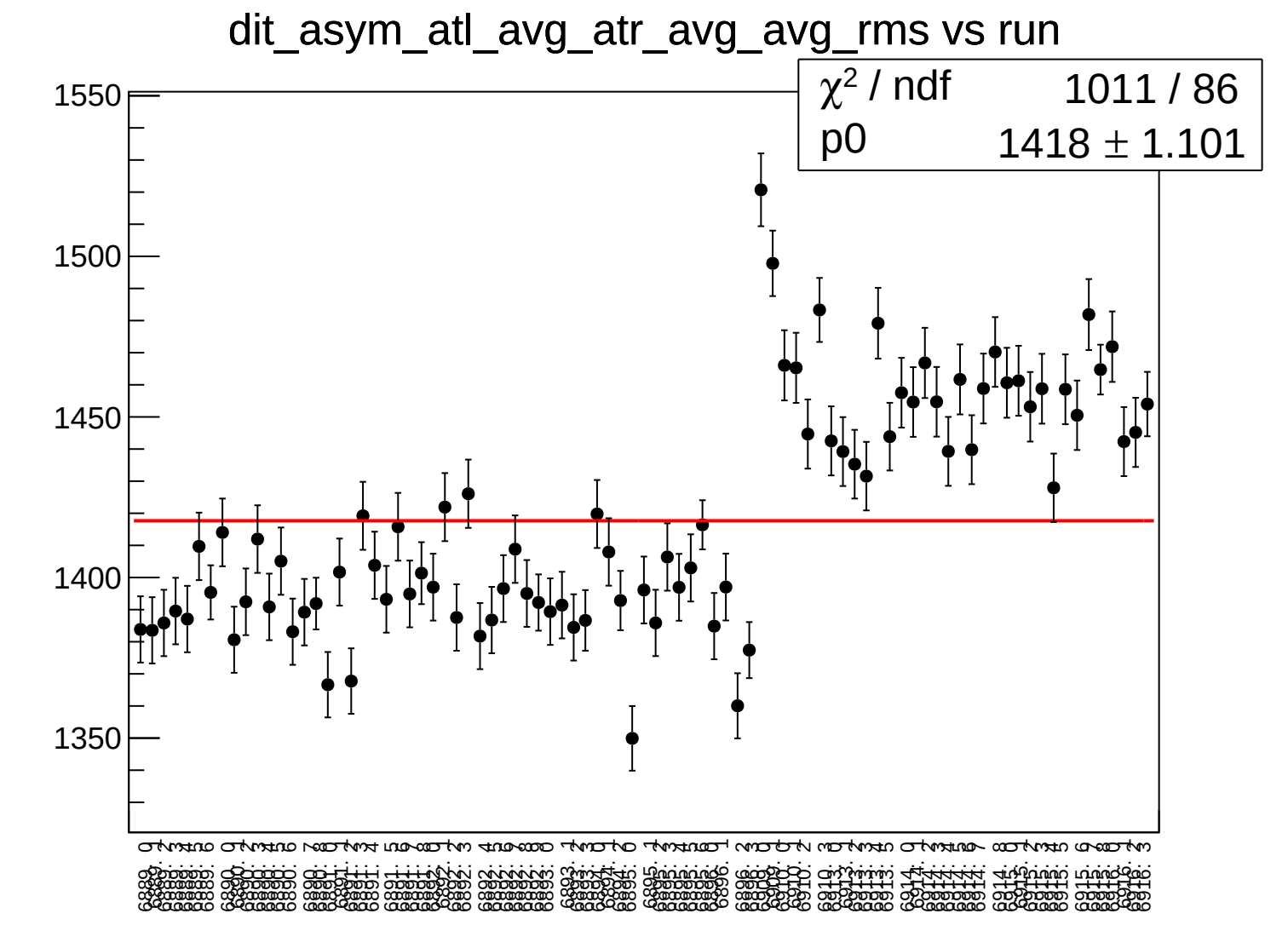

asym_atr_dd_mean vs run
×10^3
χ² / ndf 105.4 / 86
p0 −7740 ± 5838
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 87
Mean −739
Std Dev 730.1
2
1
0
−1
−2

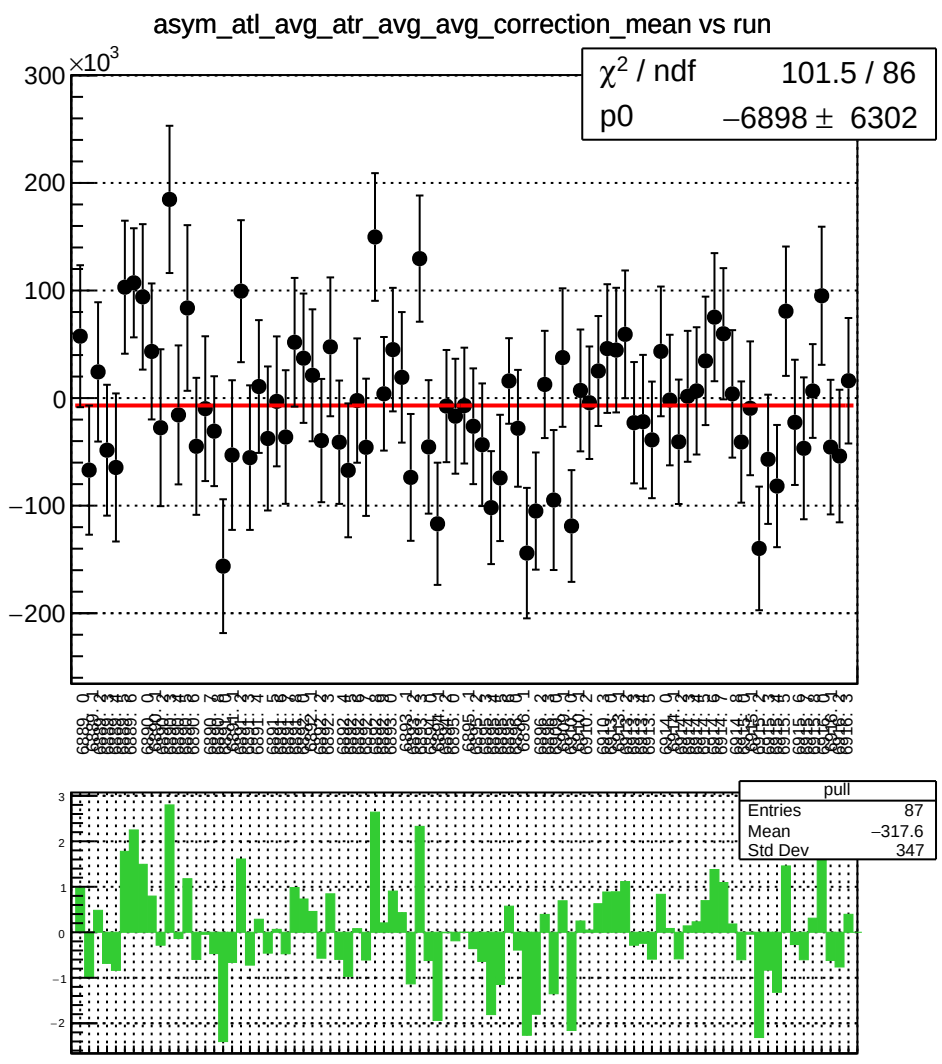

pull1D
Entries 87
Mean 0.001191
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

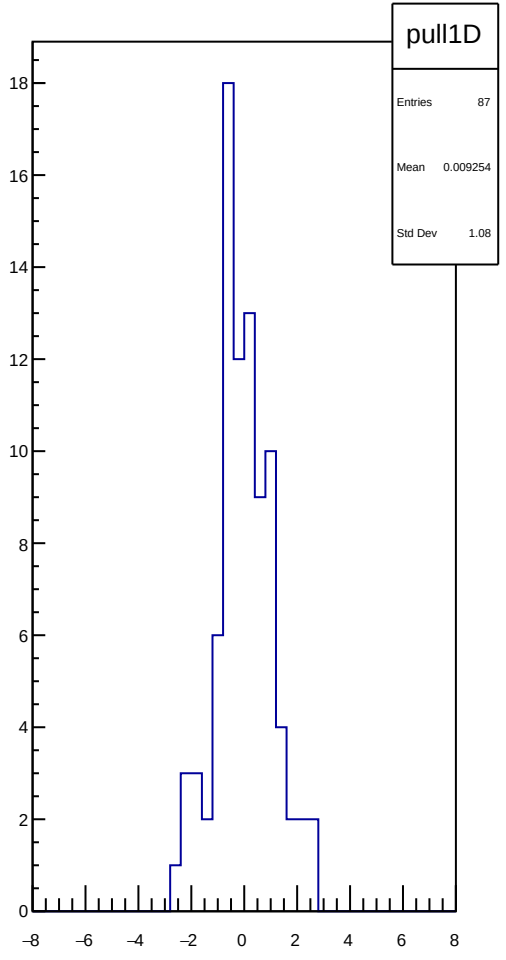

asym_atr_dd_rms vs run
χ² / ndf 7074 / 86
p0 5305 ± 4.128
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

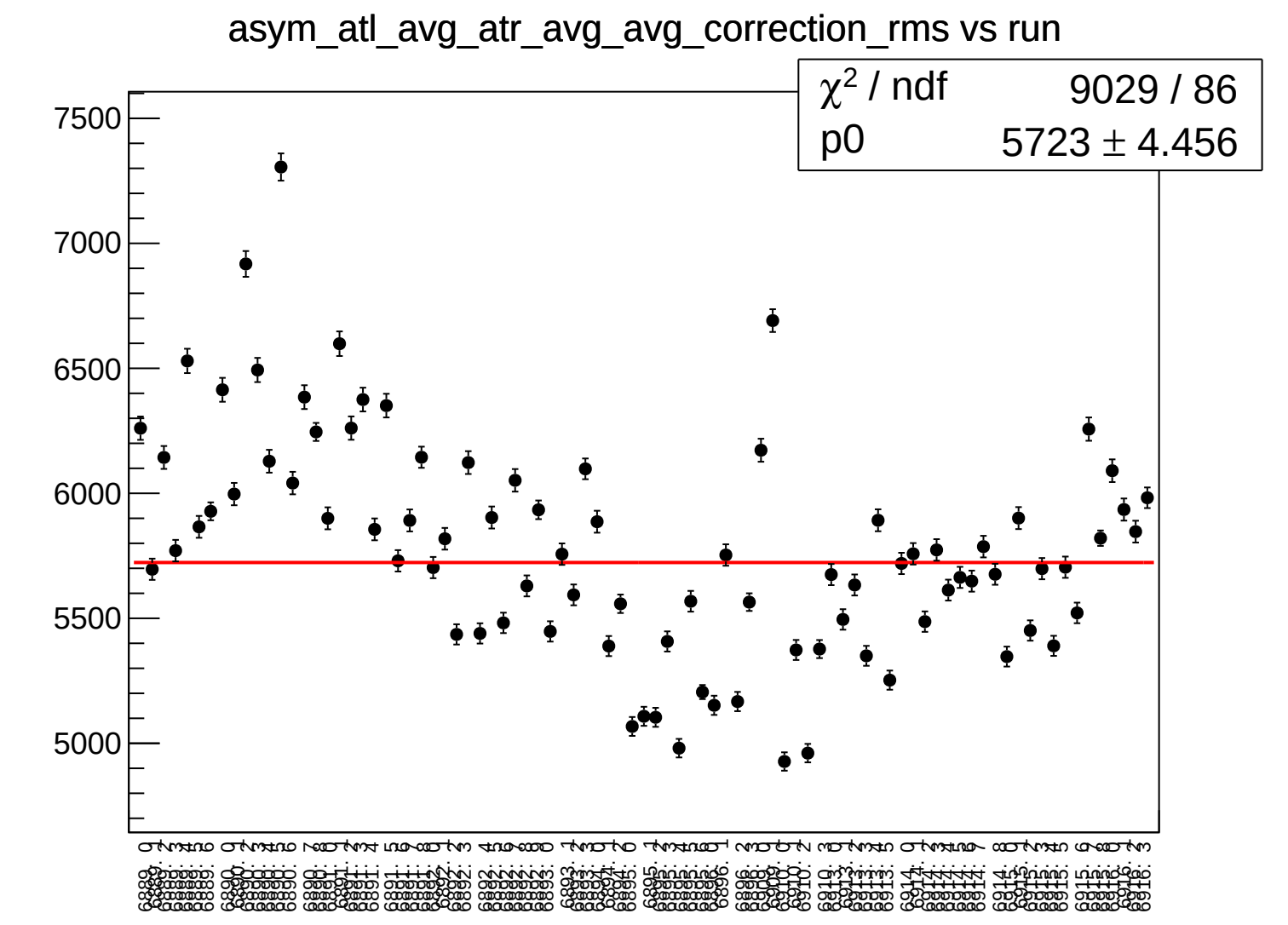

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 95.64 / 86
p0 −5812 ± 1557
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −500.1
Std Dev 536.1
2
1
0
−1
−2
−3

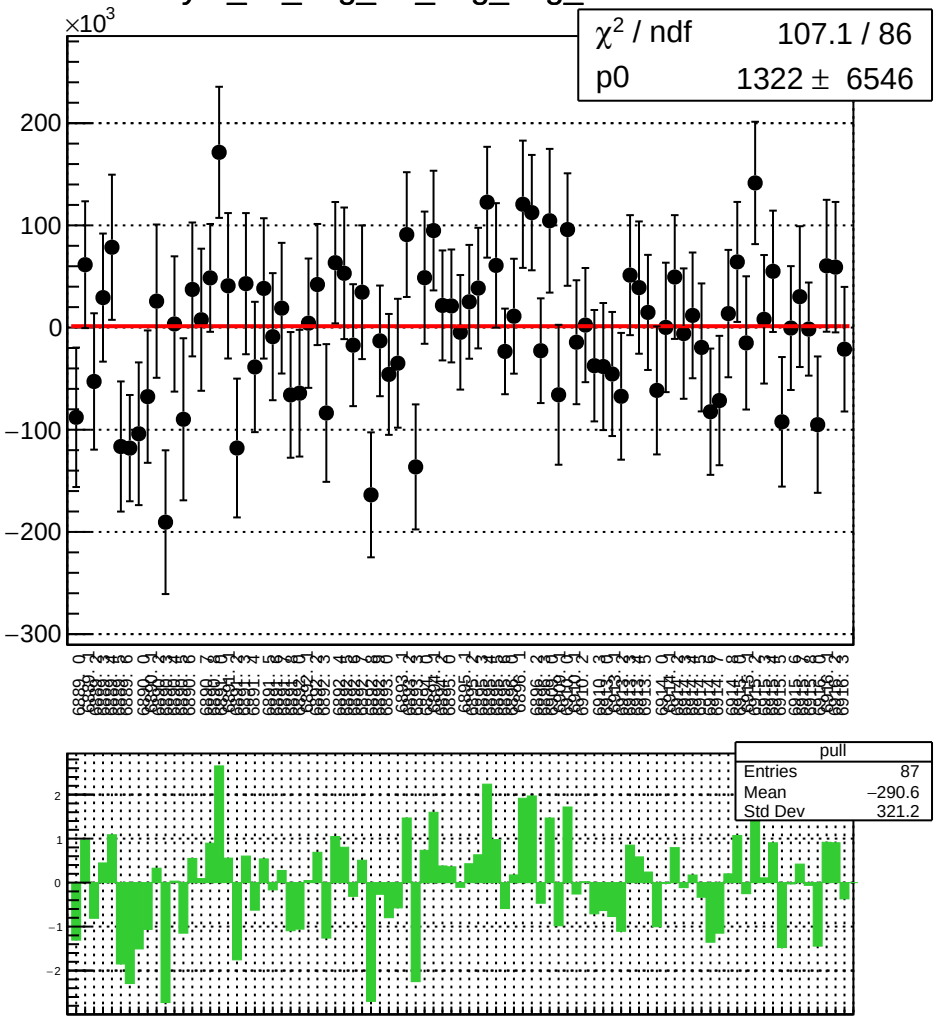

pull1D
Entries 87
Mean −0.006993
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

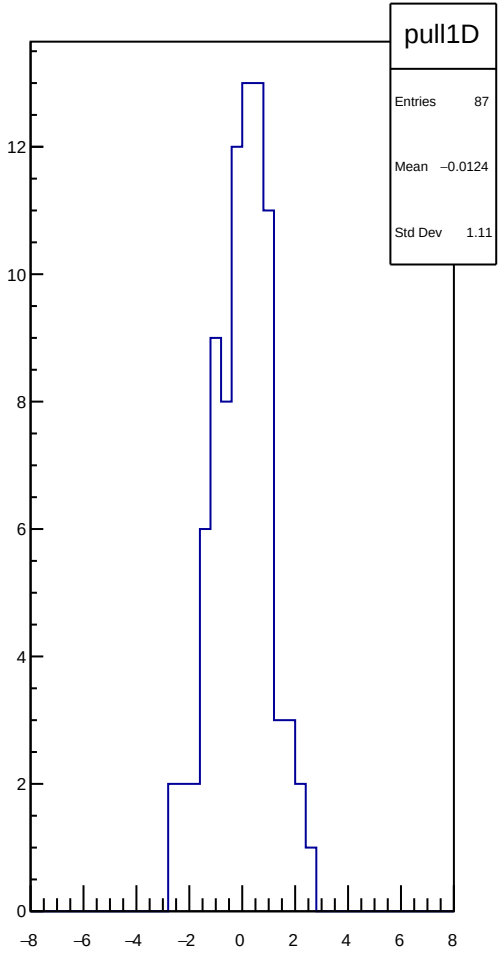

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1011 / 86
p0 1418 ± 1.101
1550
1500
1450
1400
1350

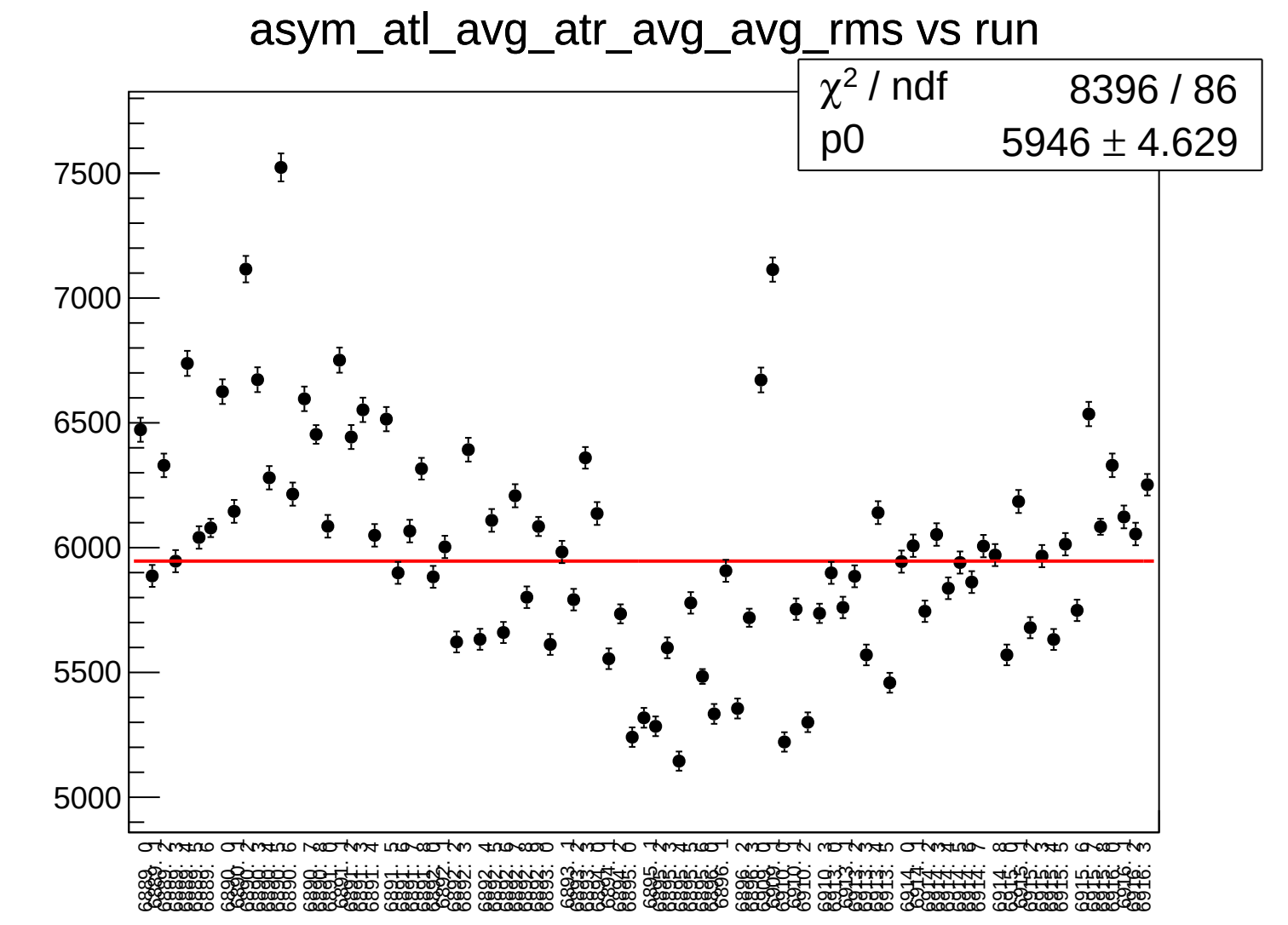

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 101.5 / 86
p0 −6898 ± 6302
×10³
300
200
100
0
−100
−200
pull
Entries 87
Mean −317.6
Std Dev 347
3
2
1
0
−1
−2

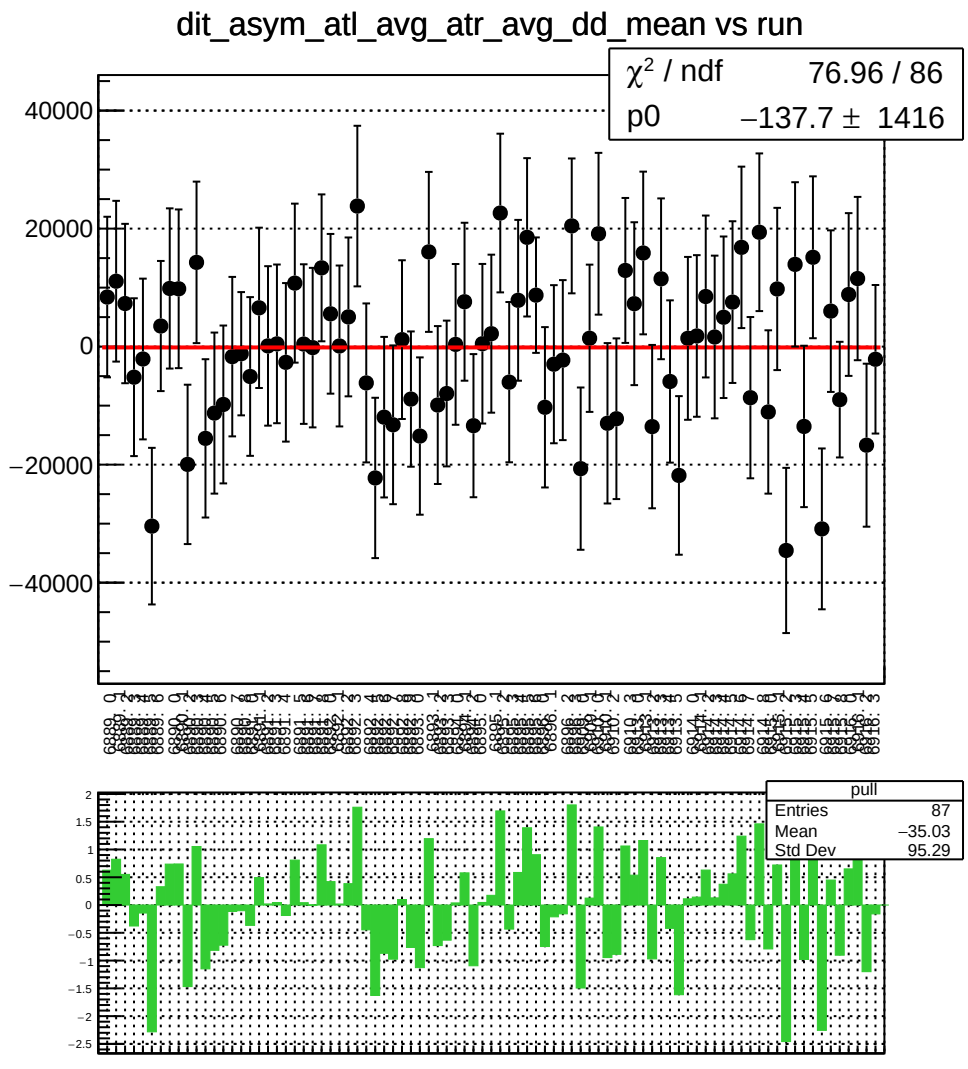

pull1D
Entries 87
Mean 0.009254
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

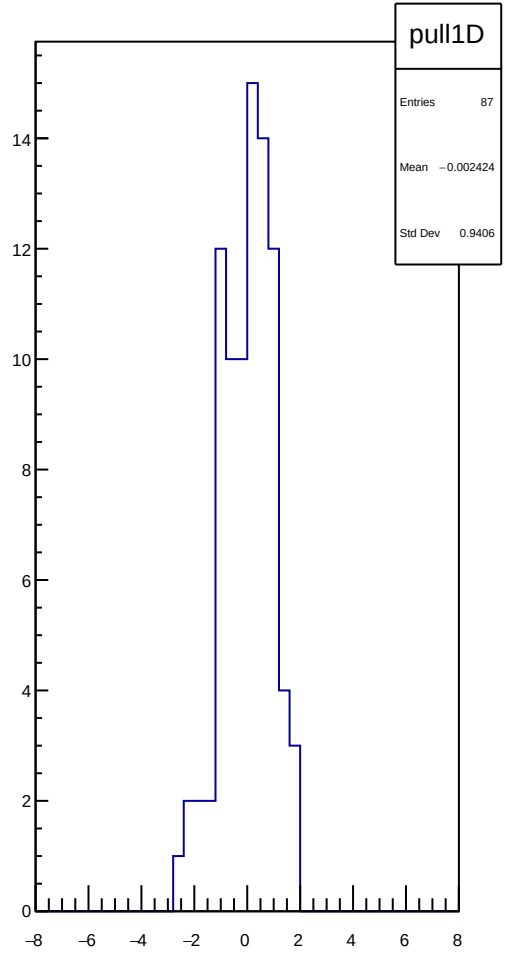

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ^2 / ndf 9029 / 86
p0 5723 ± 4.456
7500
7000
6500
6000
5500
5000

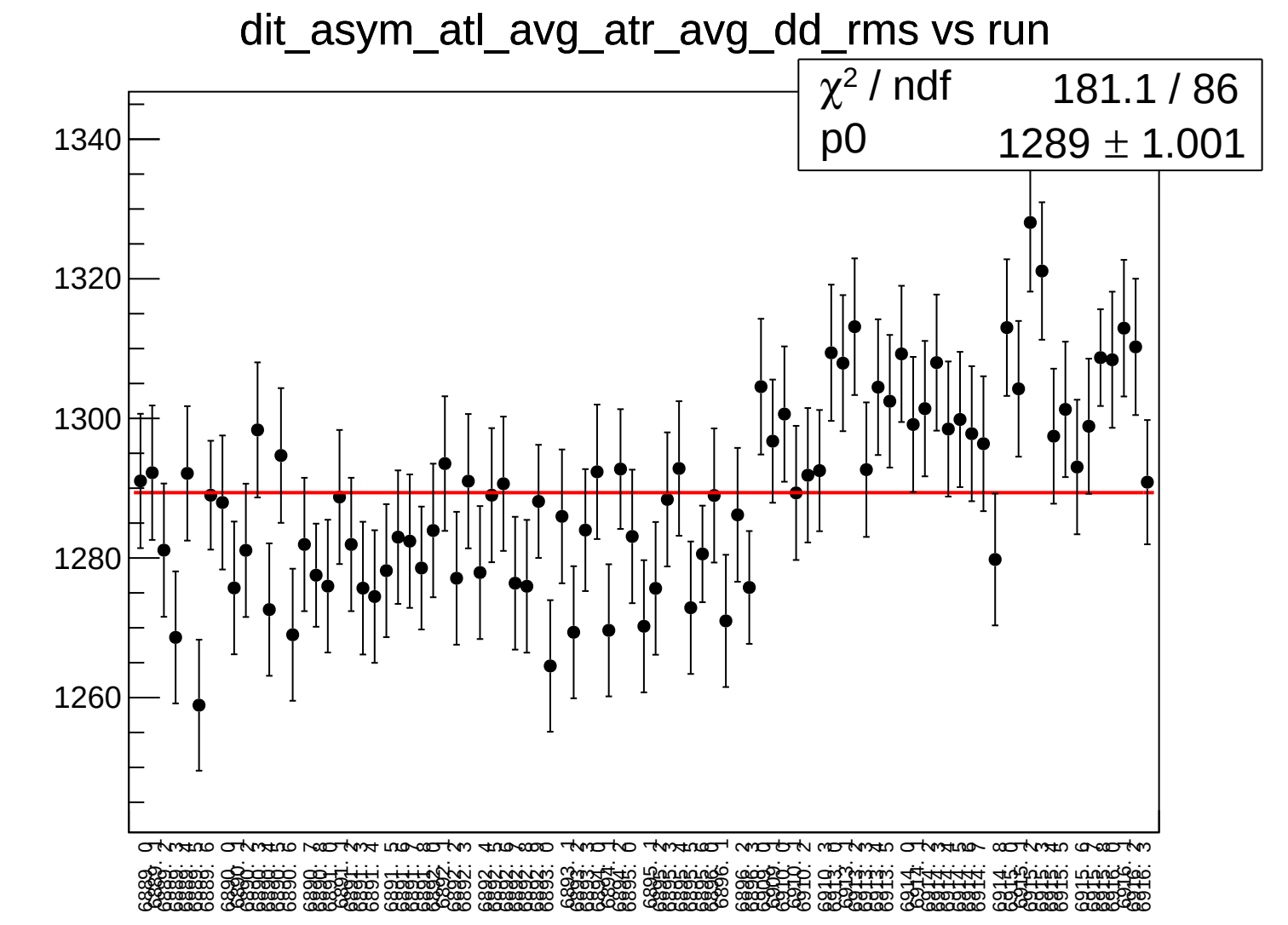

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 107.1 / 86
p0 1322 ± 6546
×10³
200
100
0
−100
−200
−300
pull
Entries 87
Mean −290.6
Std Dev 321.2
2
1
0
−1
−2

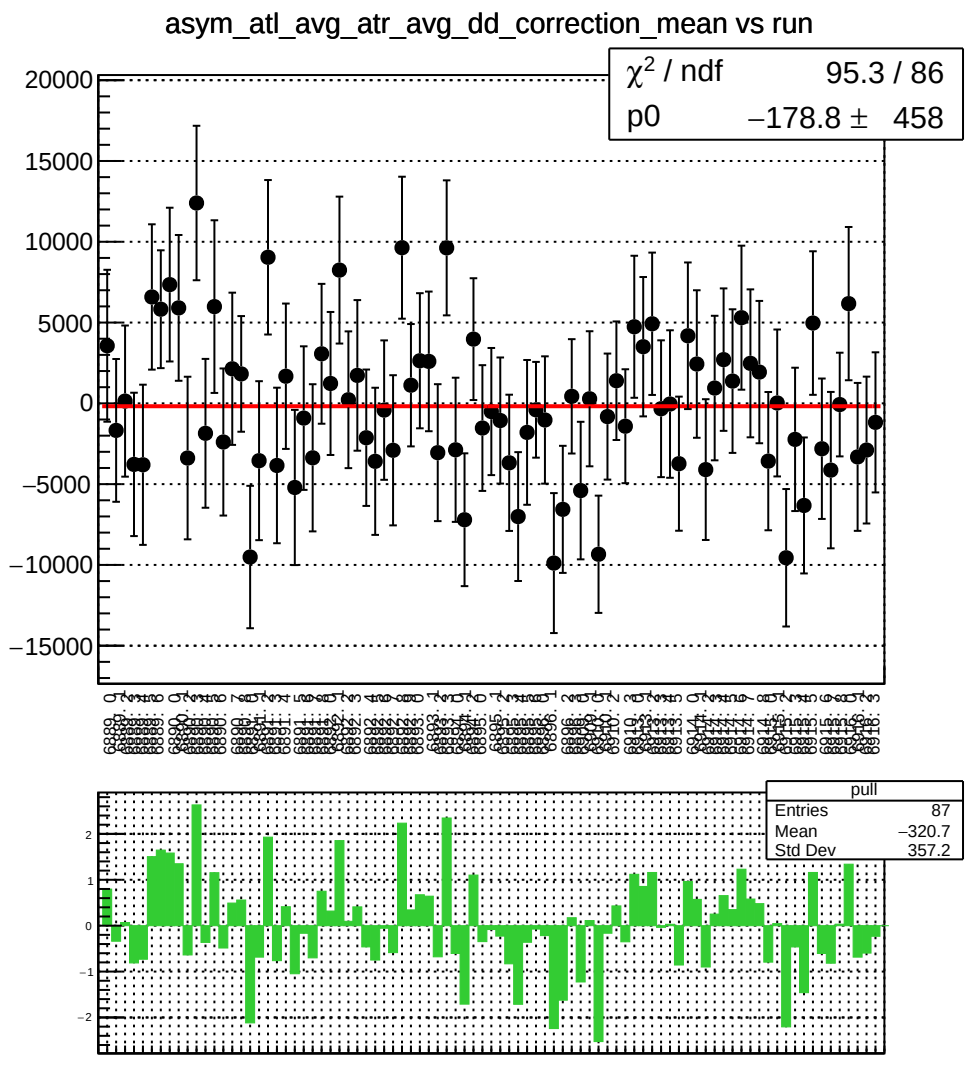

pull1D
Entries 87
Mean −0.0124
Std Dev 1.11
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

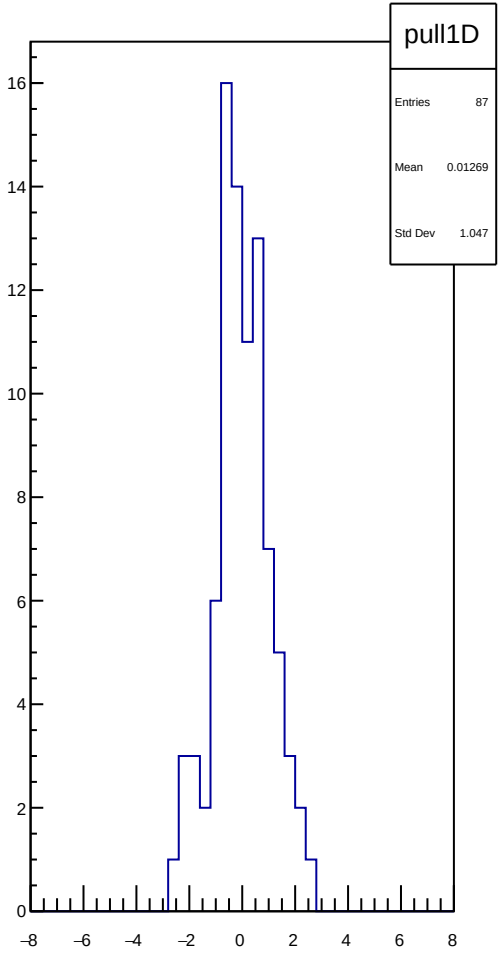

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 8396 / 86
p0 5946 ± 4.629
7500
7000
6500
6000
5500
5000

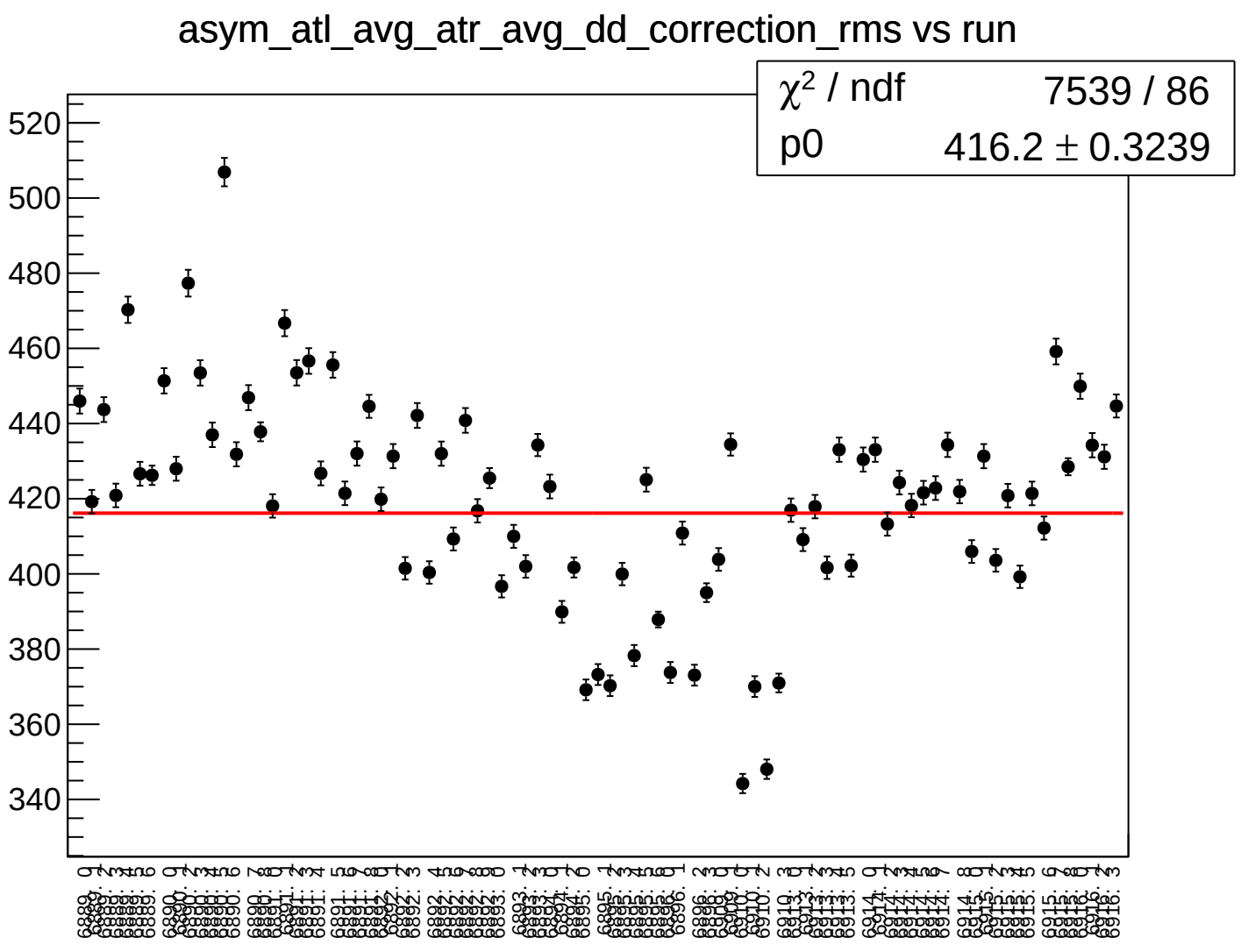

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 76.96 / 86
p0 −137.7 ± 1416
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −35.03
Std Dev 95.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

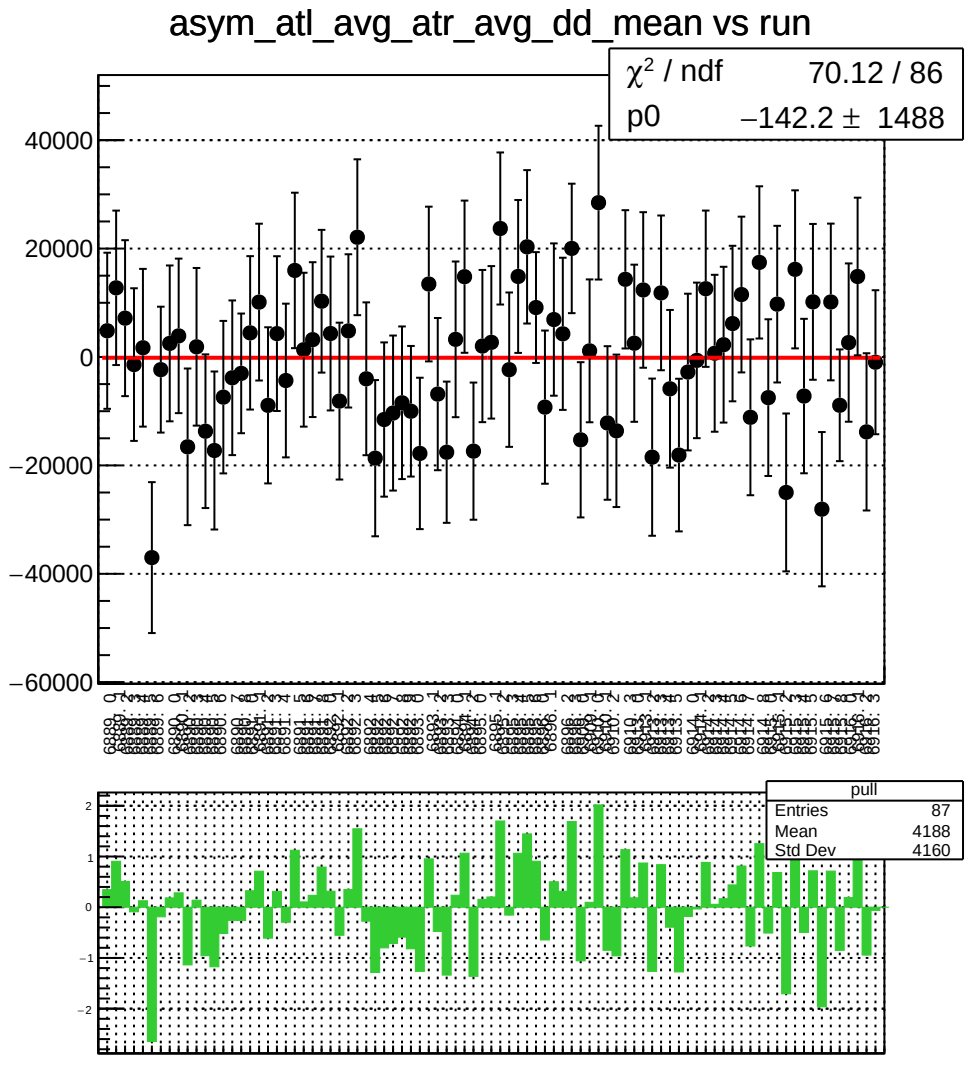

pull1D
Entries 87
Mean −0.002424
Std Dev 0.9406
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

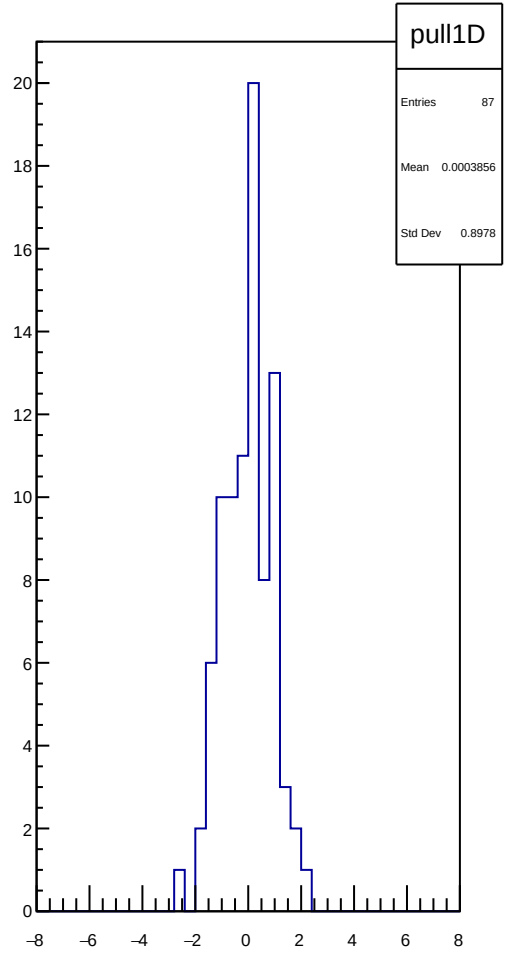

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 181.1 / 86
p0 1289 ± 1.001
1340
1320
1300
1280
1260

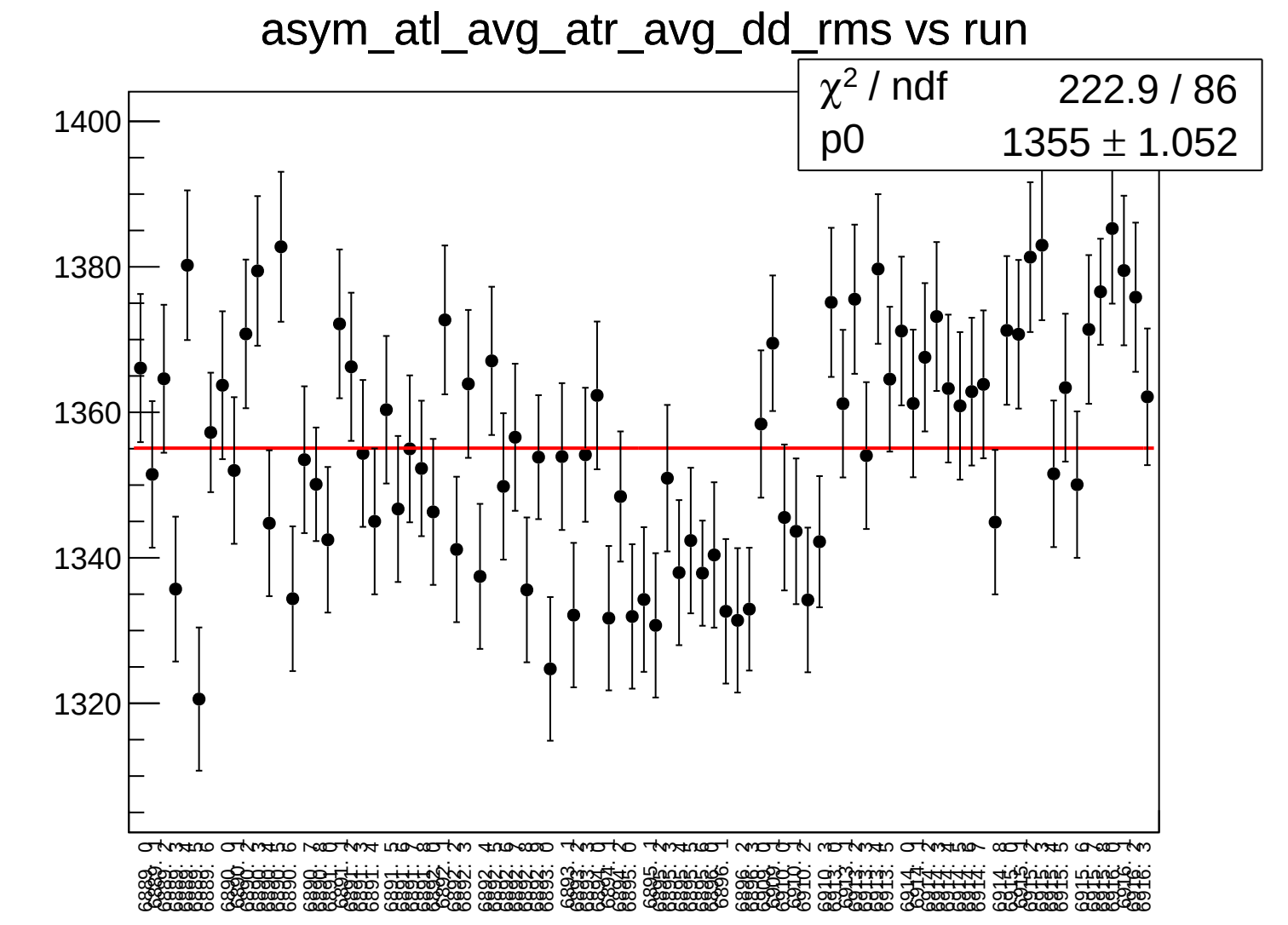

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 95.3 / 86
p0 −178.8 ± 458
pull
Entries 87
Mean −320.7
Std Dev 357.2

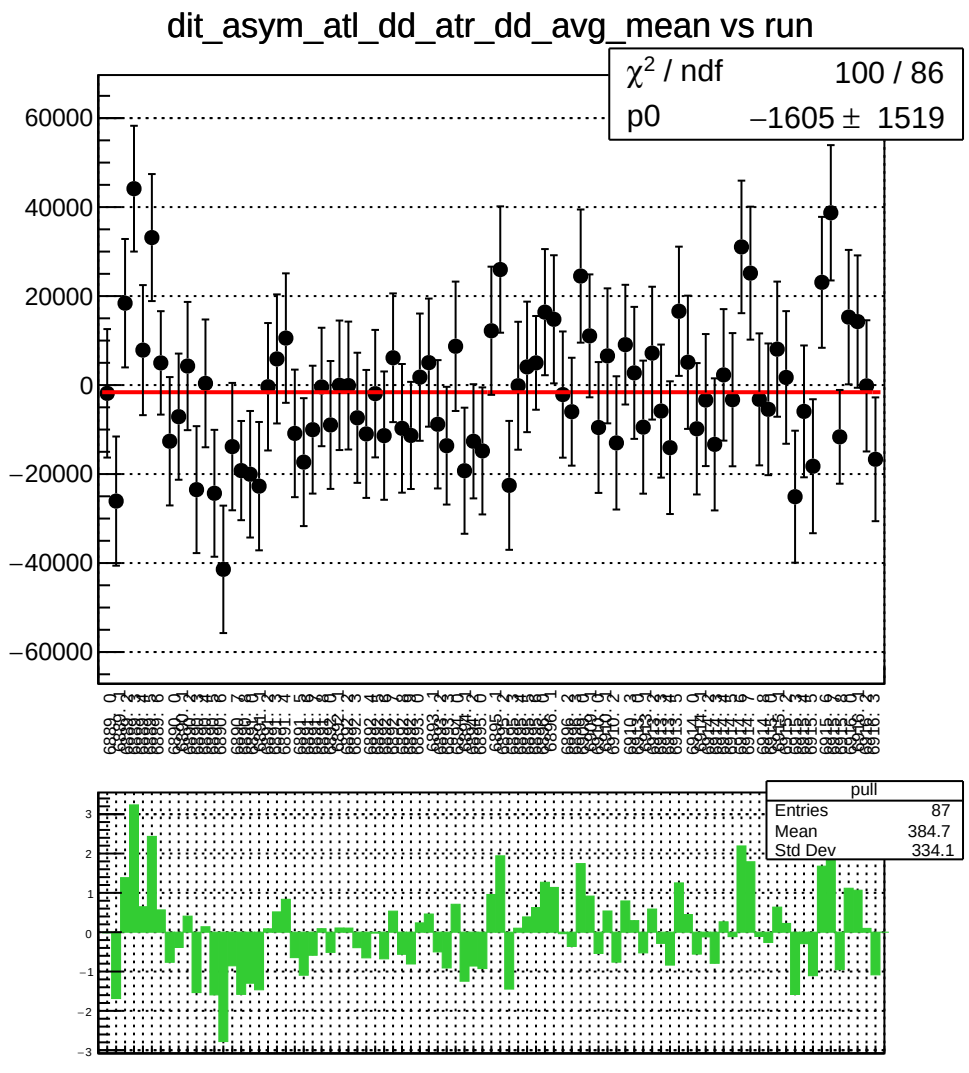

pull1D
Entries 87
Mean 0.01269
Std Dev 1.047

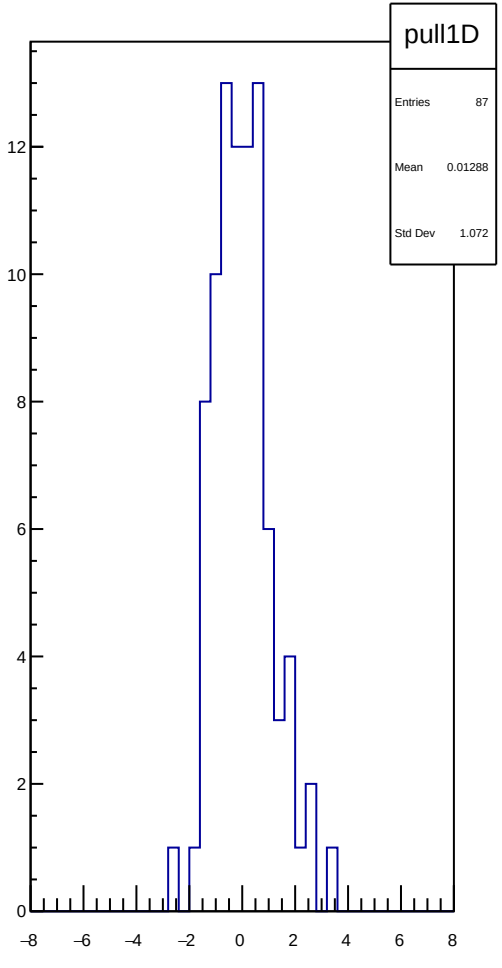

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 7539 / 86
p0 416.2 ± 0.3239
520
500
480
460
440
420
400
380
360
340

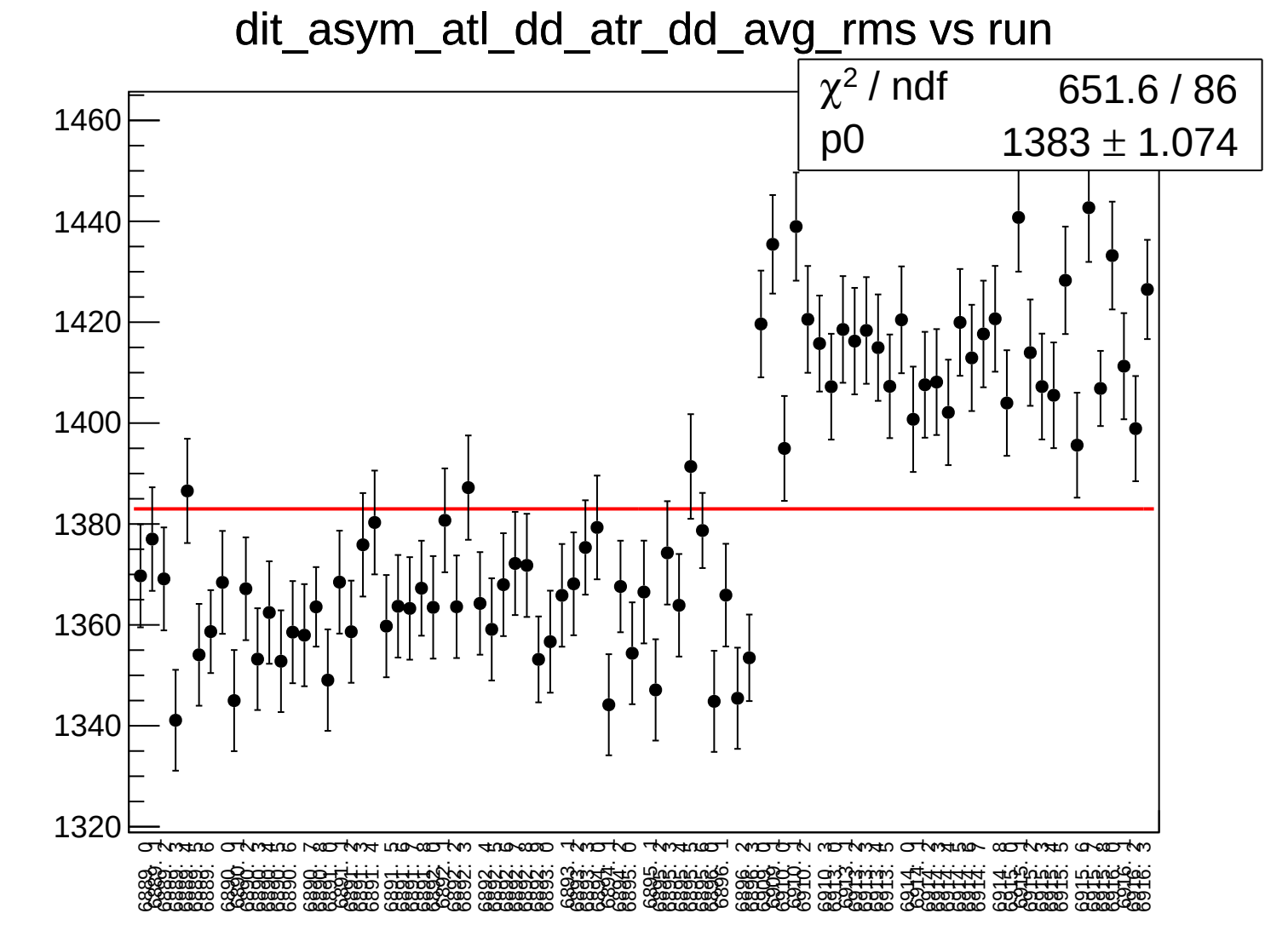

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 70.12 / 86
p0 −142.2 ± 1488
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 4188
Std Dev 4160
2
1
0
−1
−2

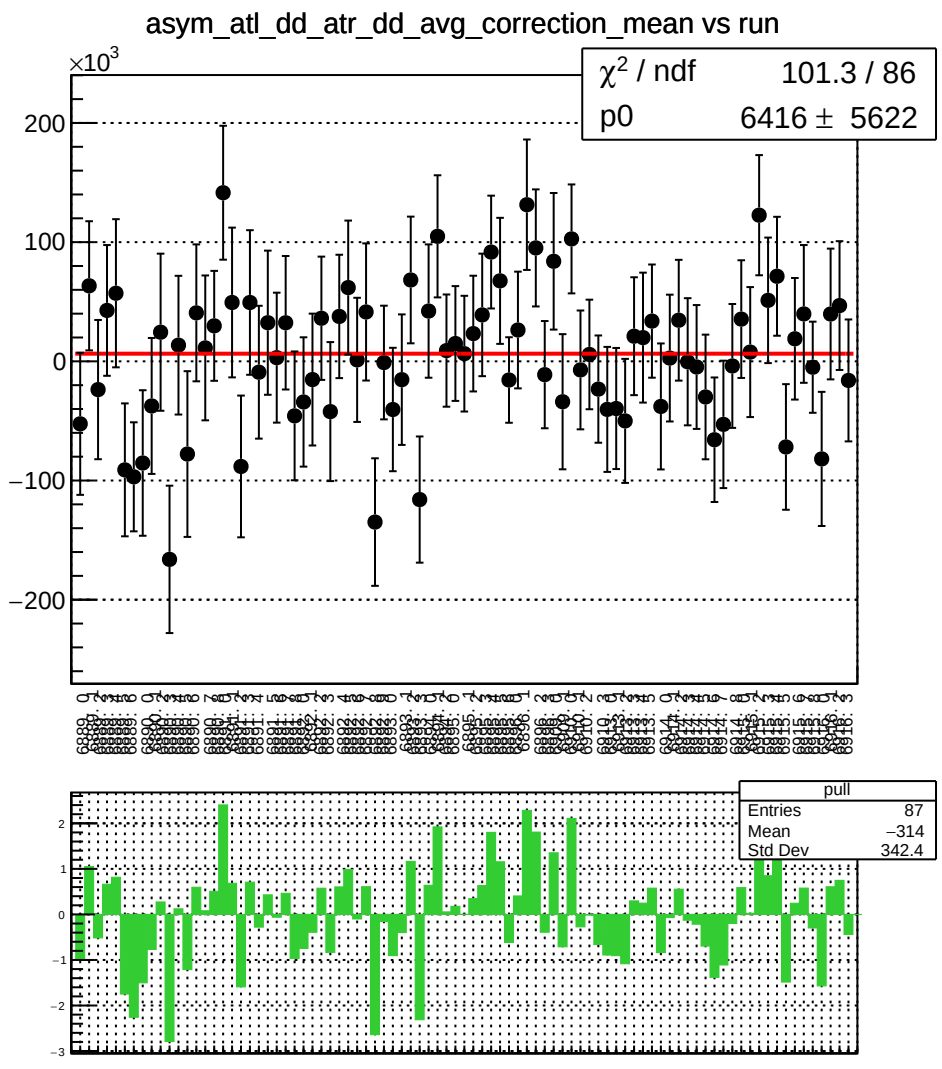

pull1D
Entries 87
Mean 0.0003856
Std Dev 0.8978
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

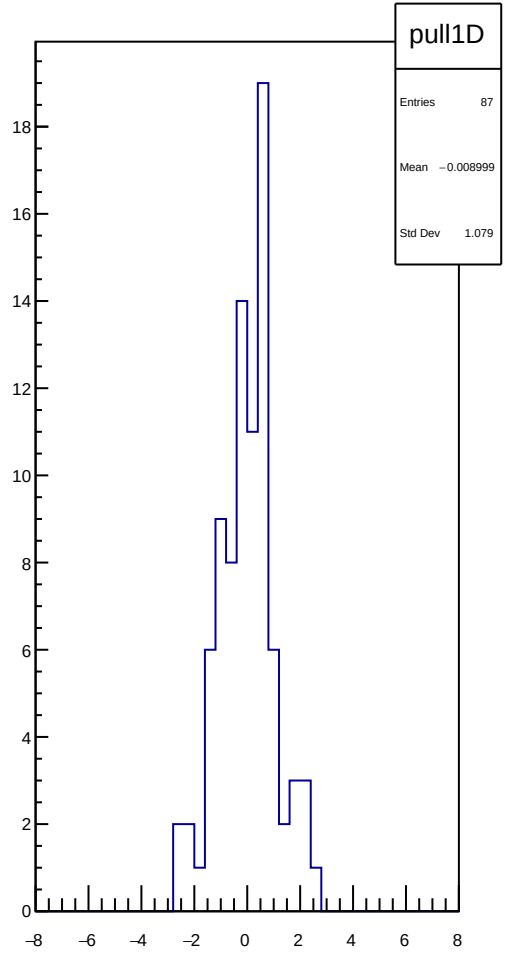

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 222.9 / 86
p0 1355 ± 1.052
1400
1380
1360
1340
1320

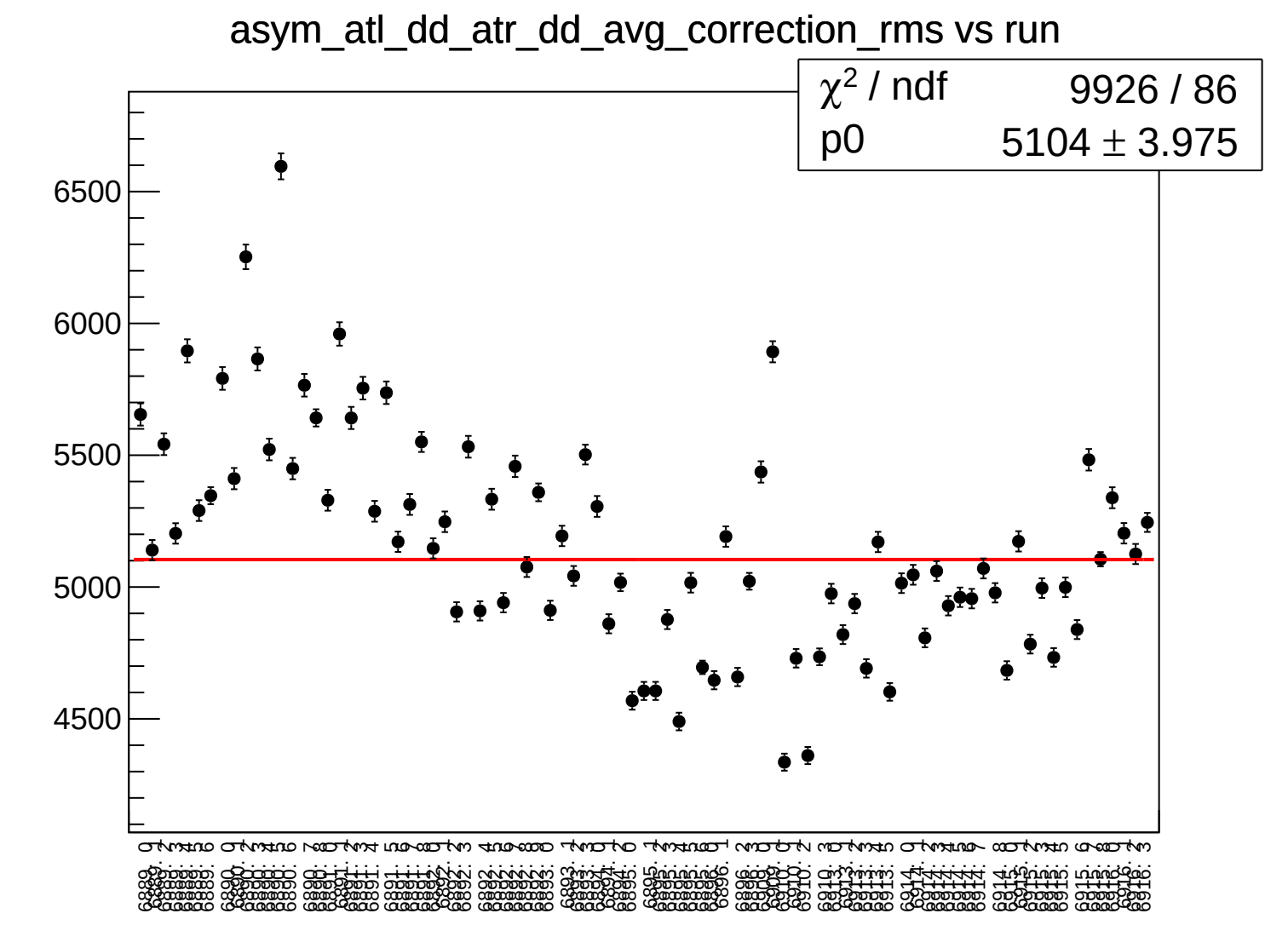

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 100 / 86
p0 −1605 ± 1519
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean 384.7
Std Dev 334.1
3
2
1
0
−1
−2
−3

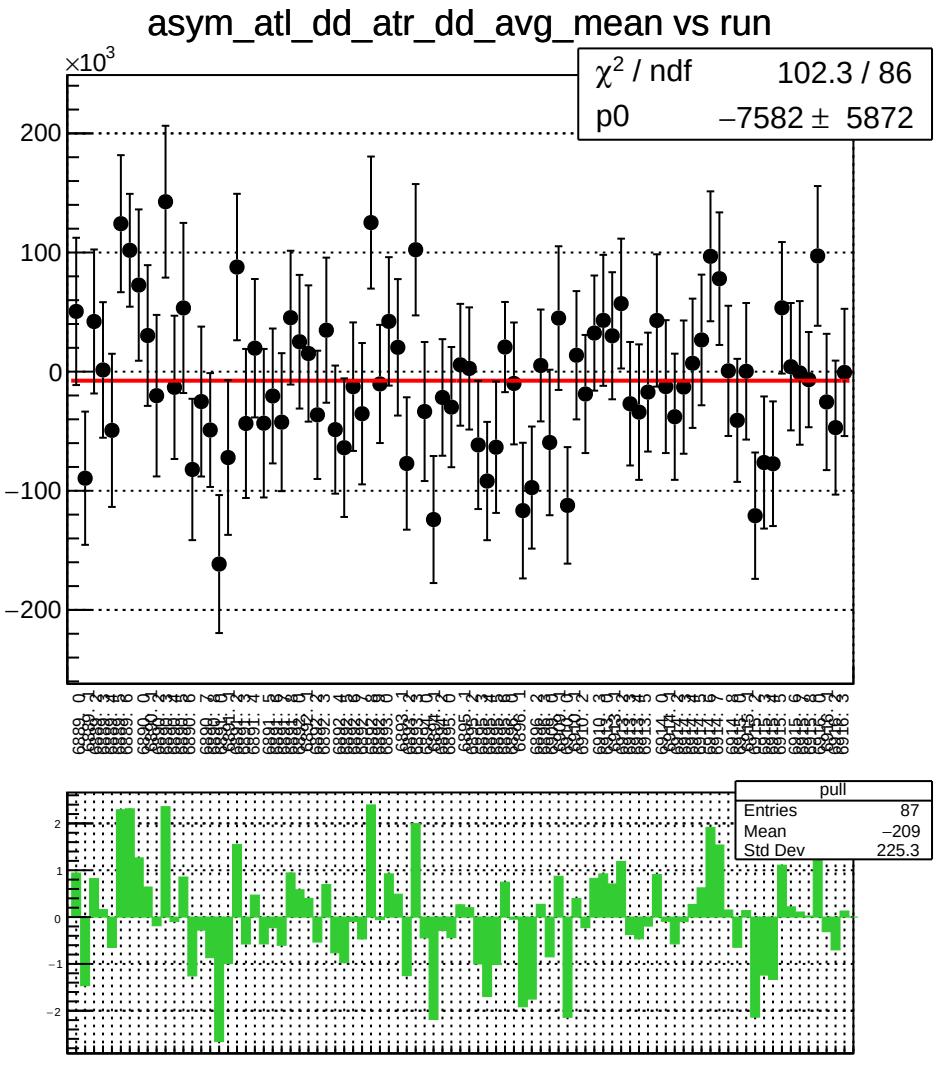

pull1D
Entries 87
Mean 0.01288
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

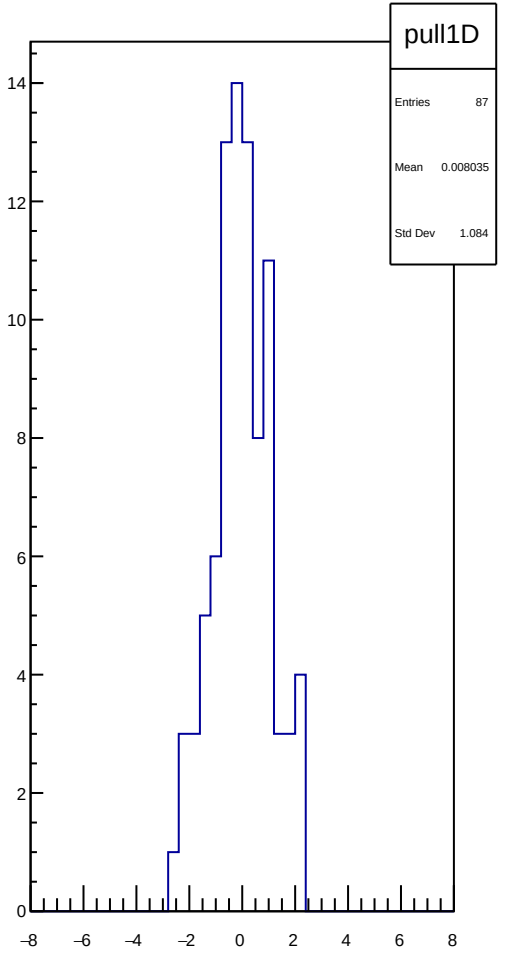

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 651.6 / 86
p0 1383 ± 1.074
1460
1440
1420
1400
1380
1360
1340
1320

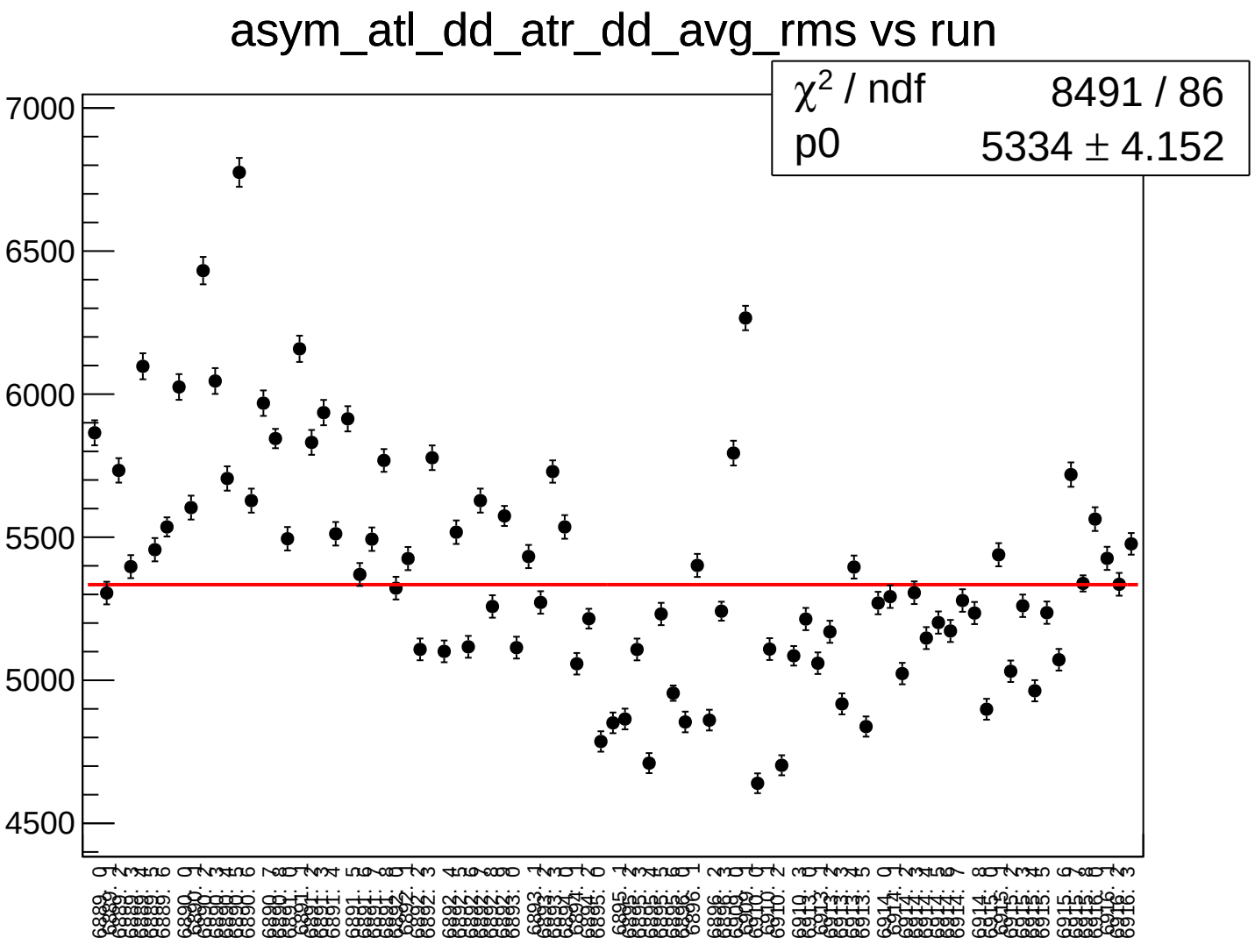

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 101.3 / 86
p0 6416 ± 5622
200
100
0
−100
−200
pull
Entries 87
Mean −314
Std Dev 342.4
2
1
0
−1
−2
−3

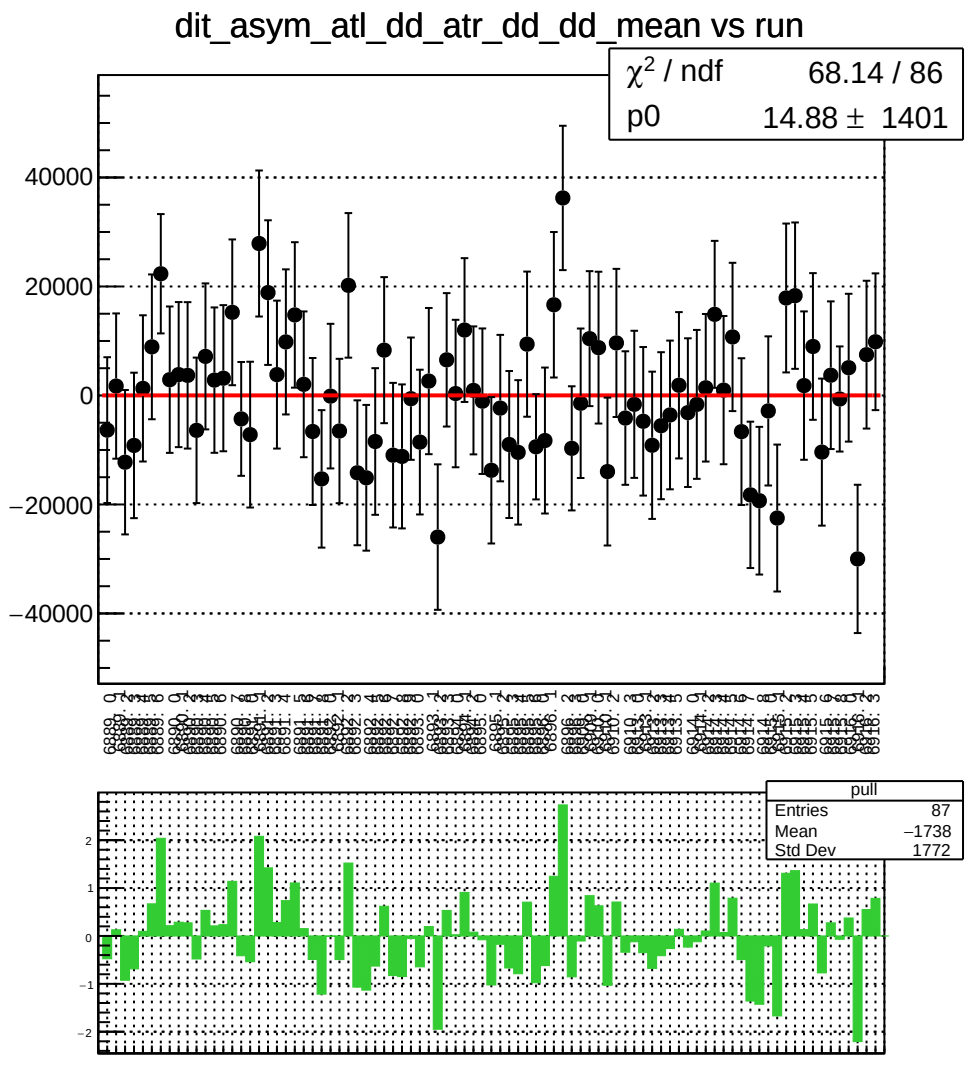

pull1D
Entries 87
Mean −0.008999
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

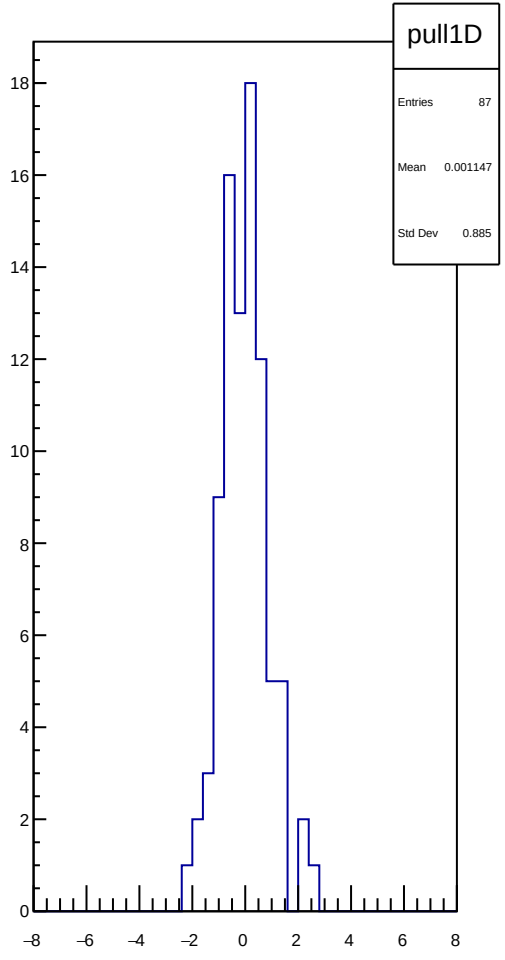

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 9926 / 86
p0 5104 ± 3.975
6500
6000
5500
5000
4500

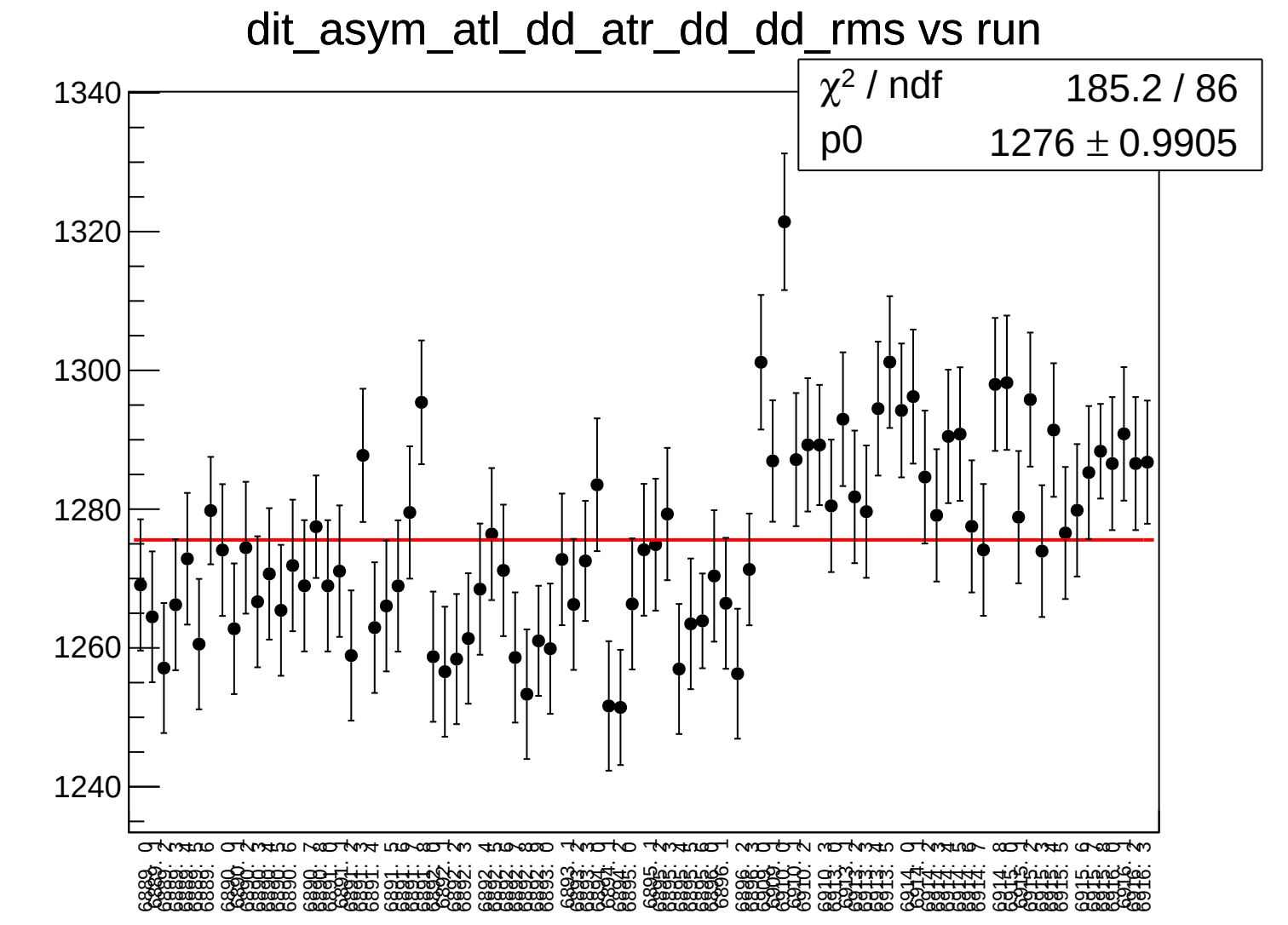

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 102.3 / 86
p0 −7582 ± 5872
200
100
0
−100
−200
pull
Entries 87
Mean −209
Std Dev 225.3
2
1
0
−1
−2

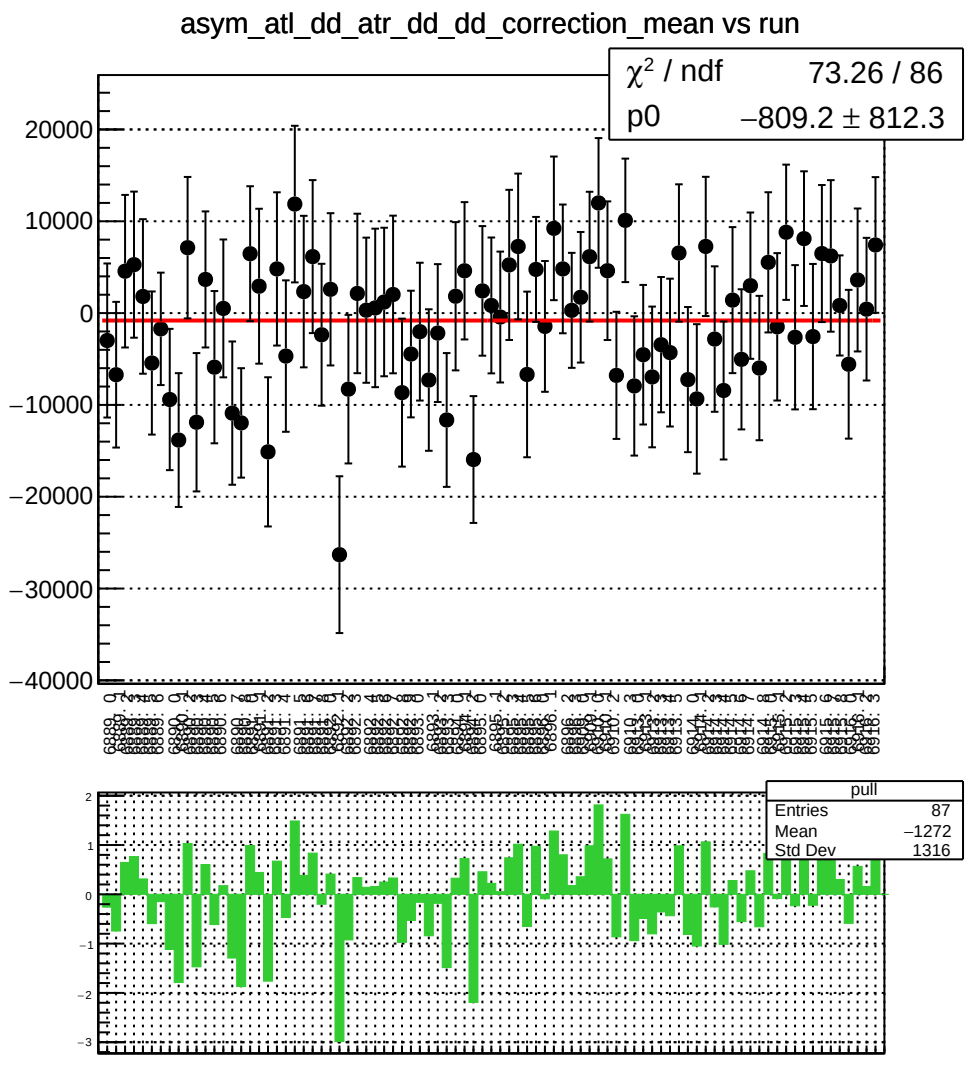

pull1D
Entries 87
Mean 0.008035
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

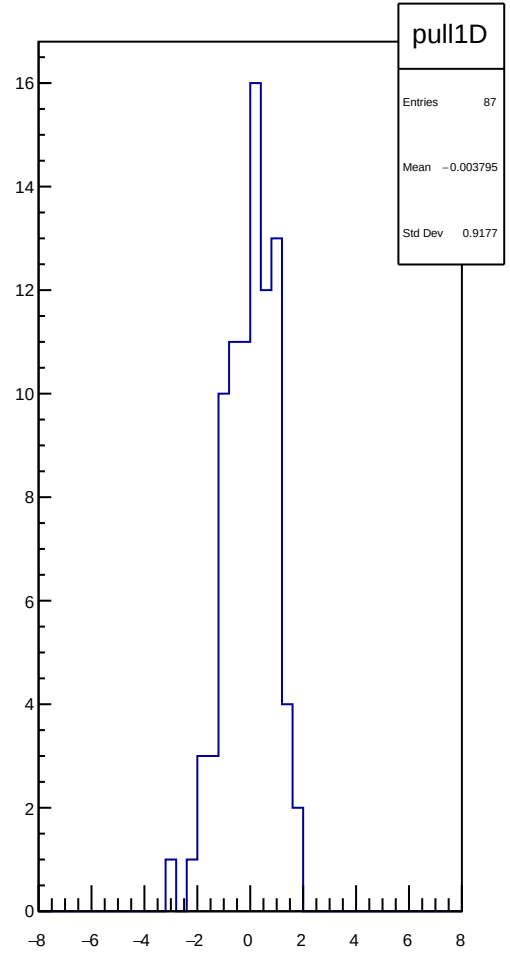

asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 8491 / 86
p0 5334 ± 4.152
7000
6500
6000
5500
5000
4500

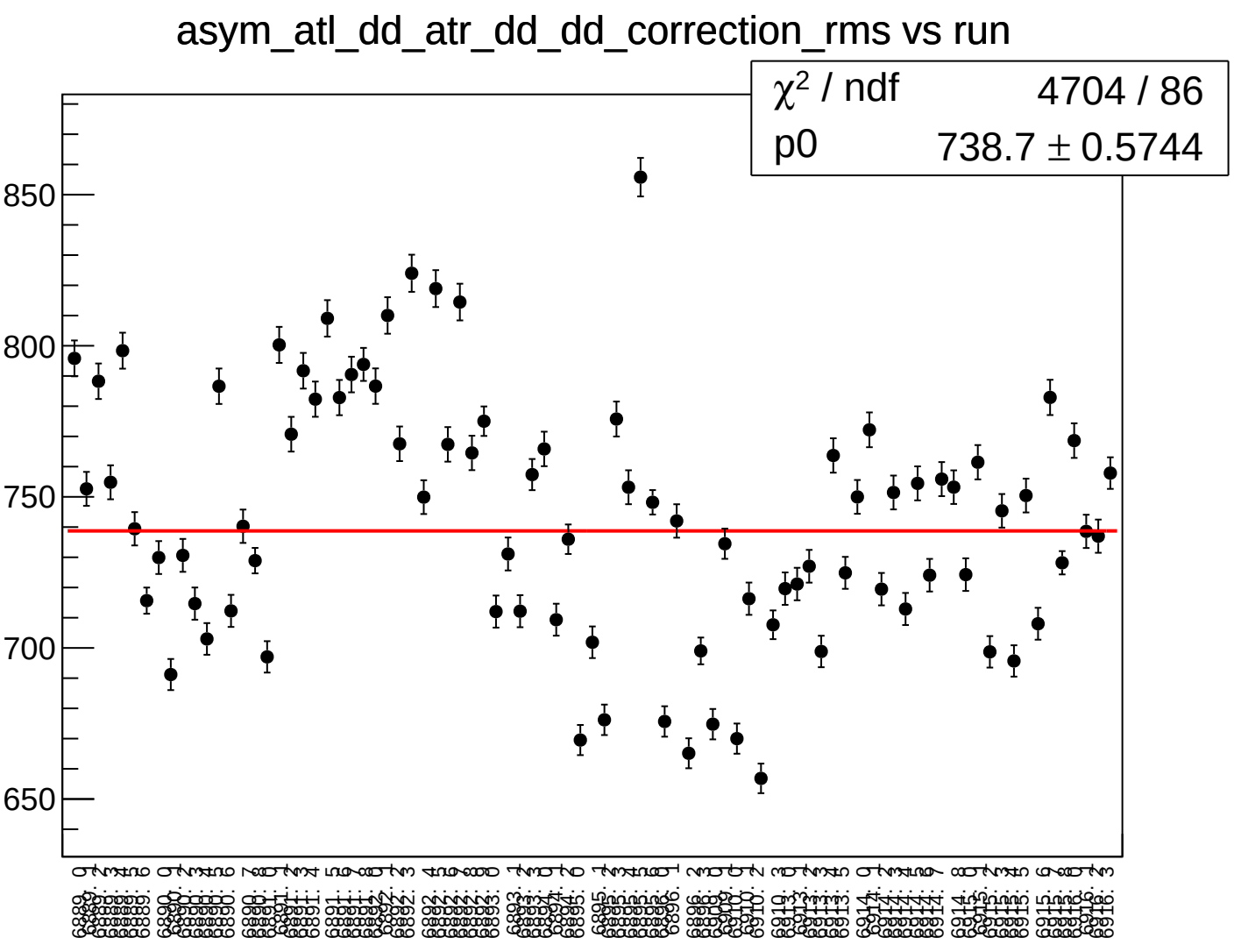

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 68.14 / 86
p0 14.88 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −1738
Std Dev 1772
2
1
0
−1
−2

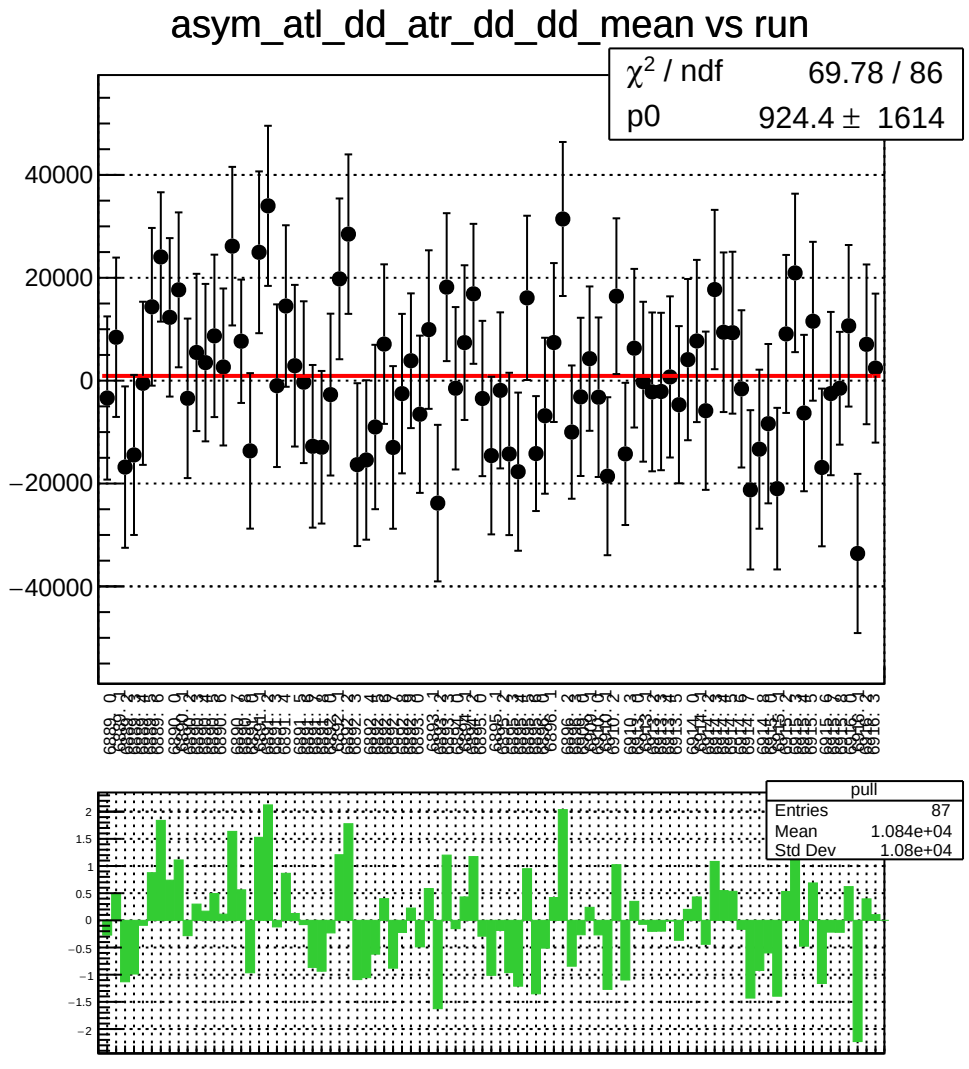

pull1D
Entries 87
Mean 0.001147
Std Dev 0.885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

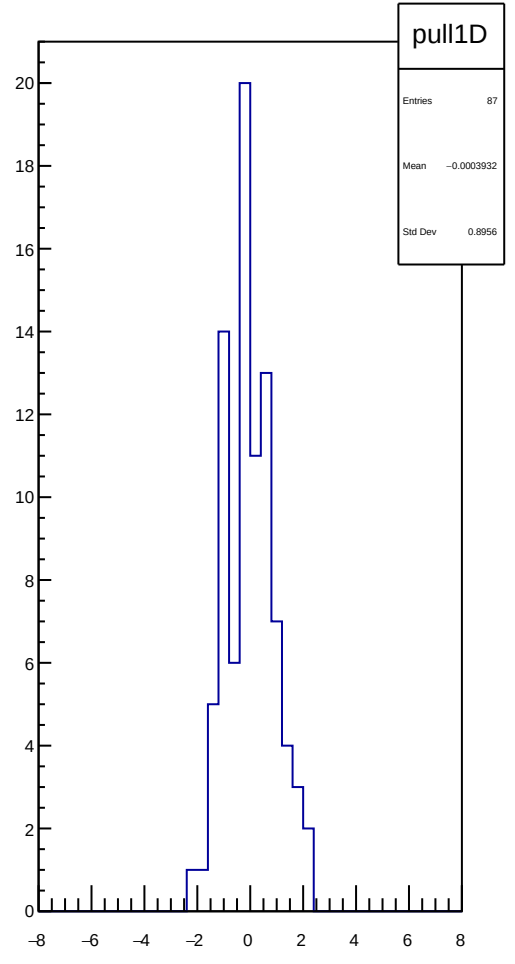

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 185.2 / 86
p0 1276 ± 0.9905
1340
1320
1300
1280
1260
1240

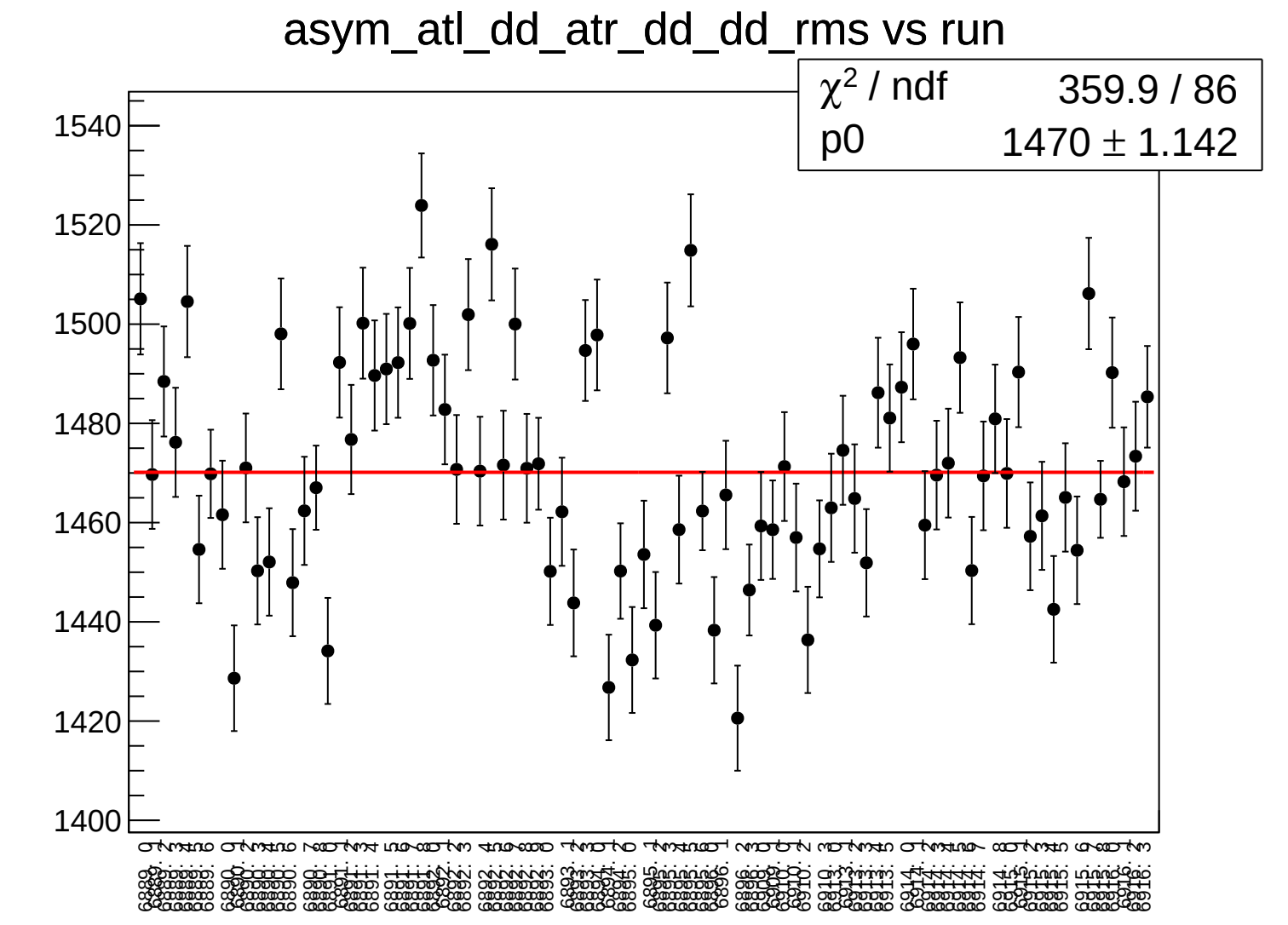

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 73.26 / 86
p0 −809.2 ± 812.3
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean −1272
Std Dev 1316
2
1
0
−1
−2
−3

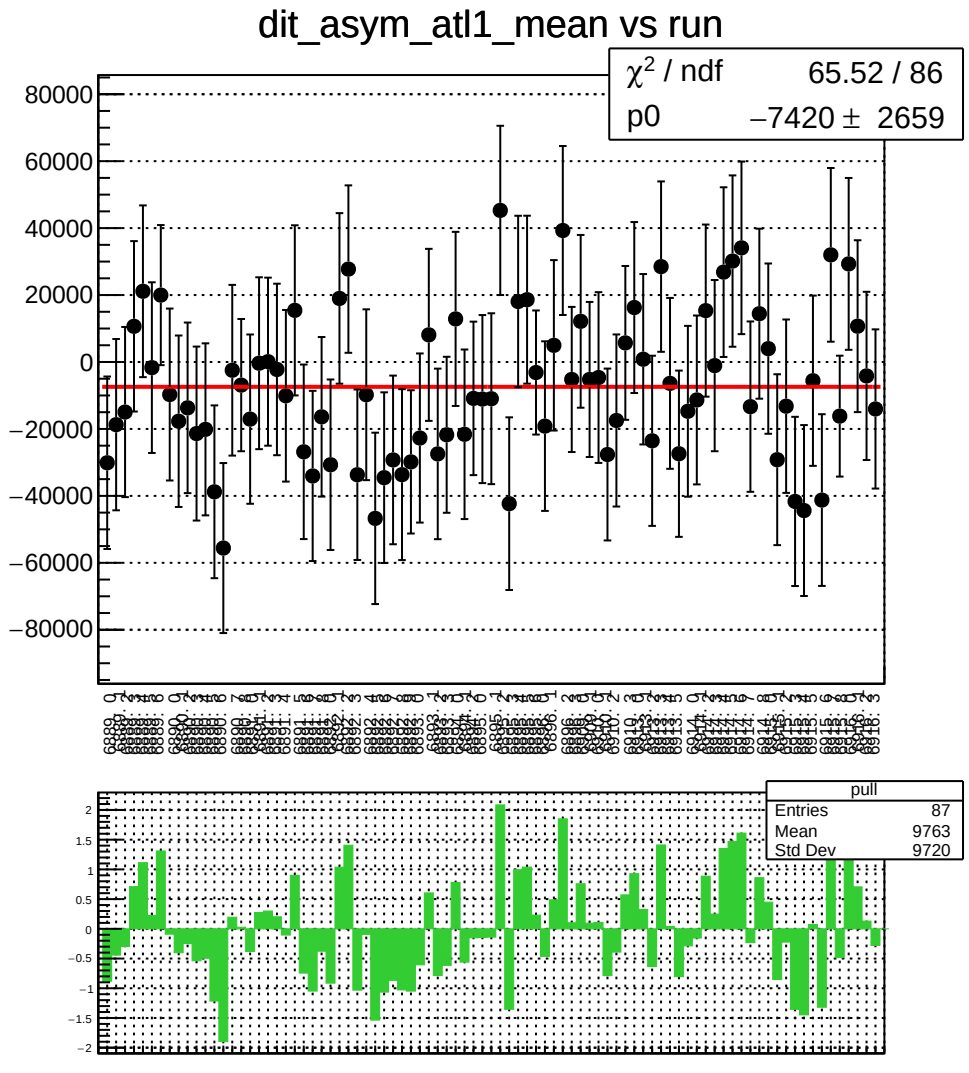

pull1D
Entries 87
Mean −0.003795
Std Dev 0.9177
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

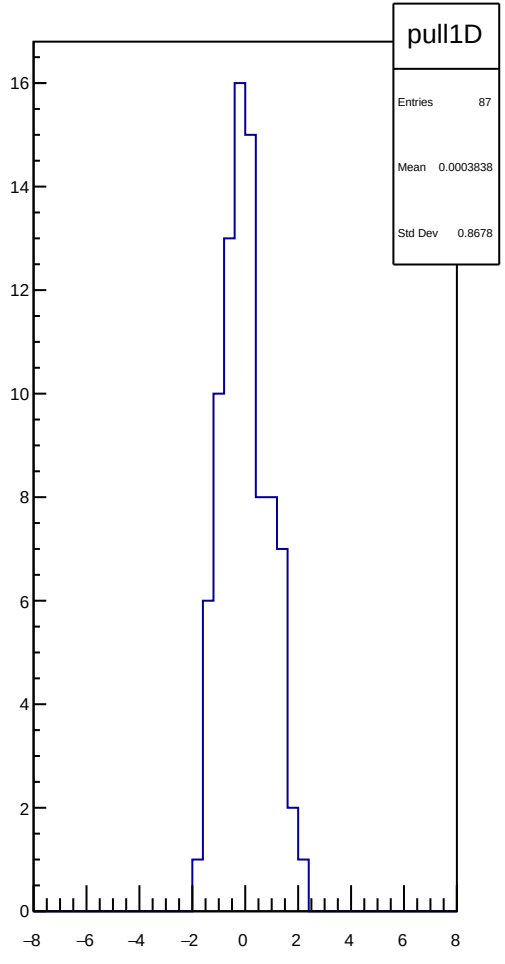

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 4704 / 86
p0 738.7 ± 0.5744
850
800
750
700
650

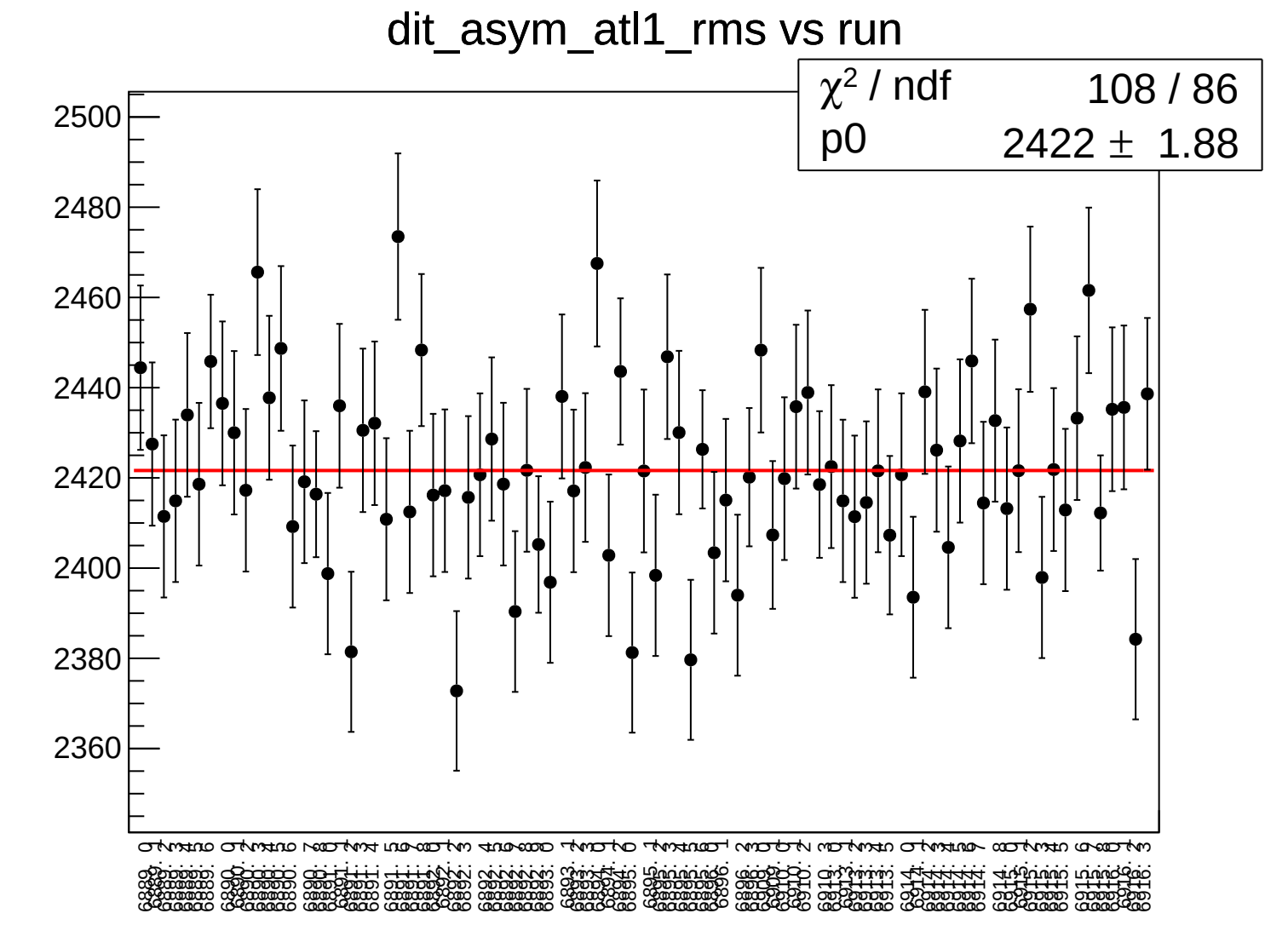

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 69.78 / 86
p0 924.4 ± 1614
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 1.084e+04
Std Dev 1.08e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

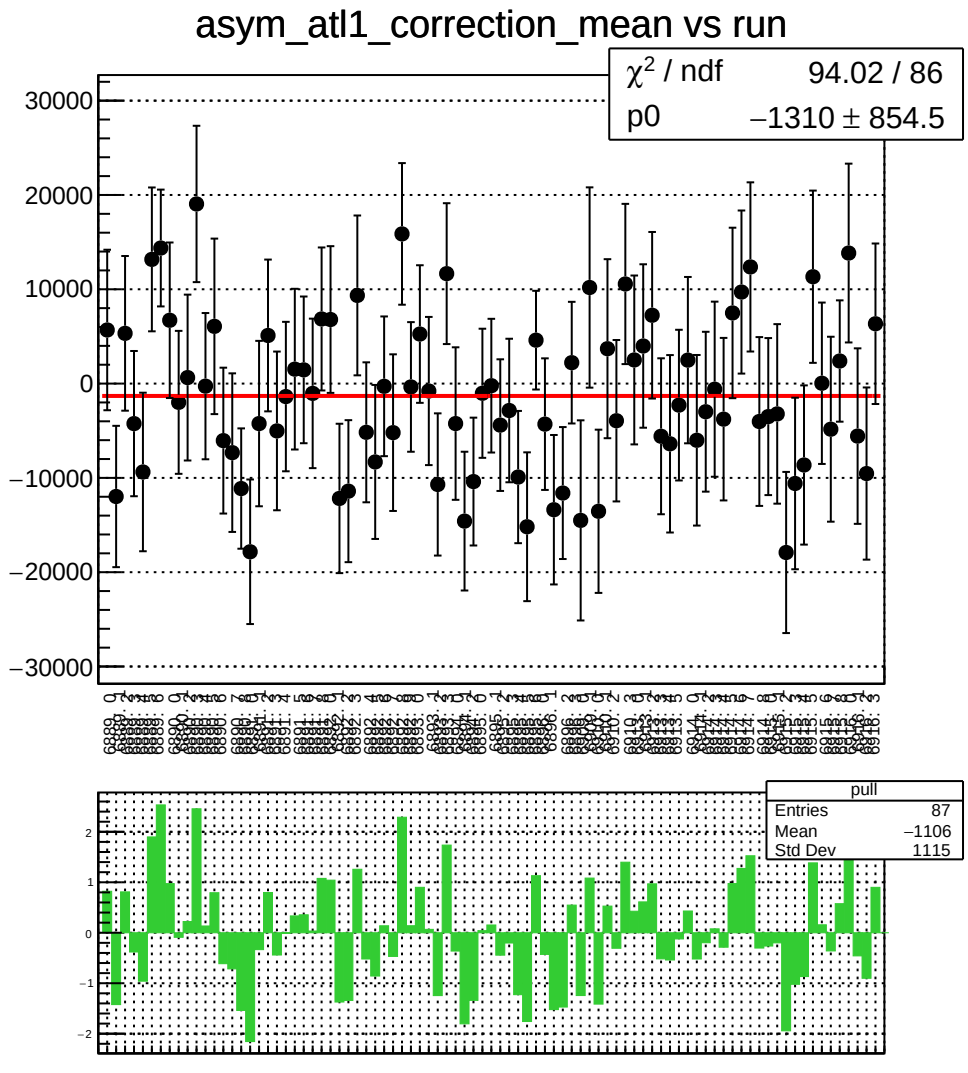

pull1D
Entries 87
Mean −0.0003932
Std Dev 0.8956
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

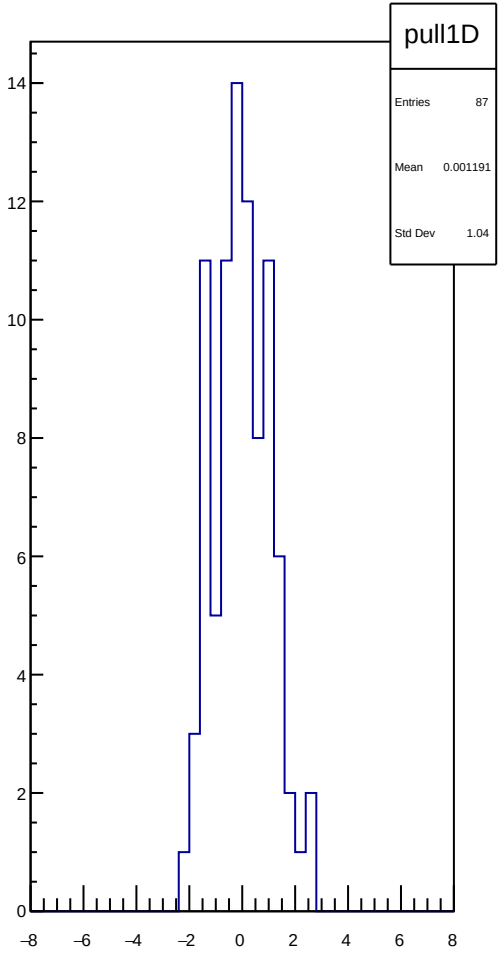

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 359.9 / 86
p0 1470 ± 1.142
1540
1520
1500
1480
1460
1440
1420
1400

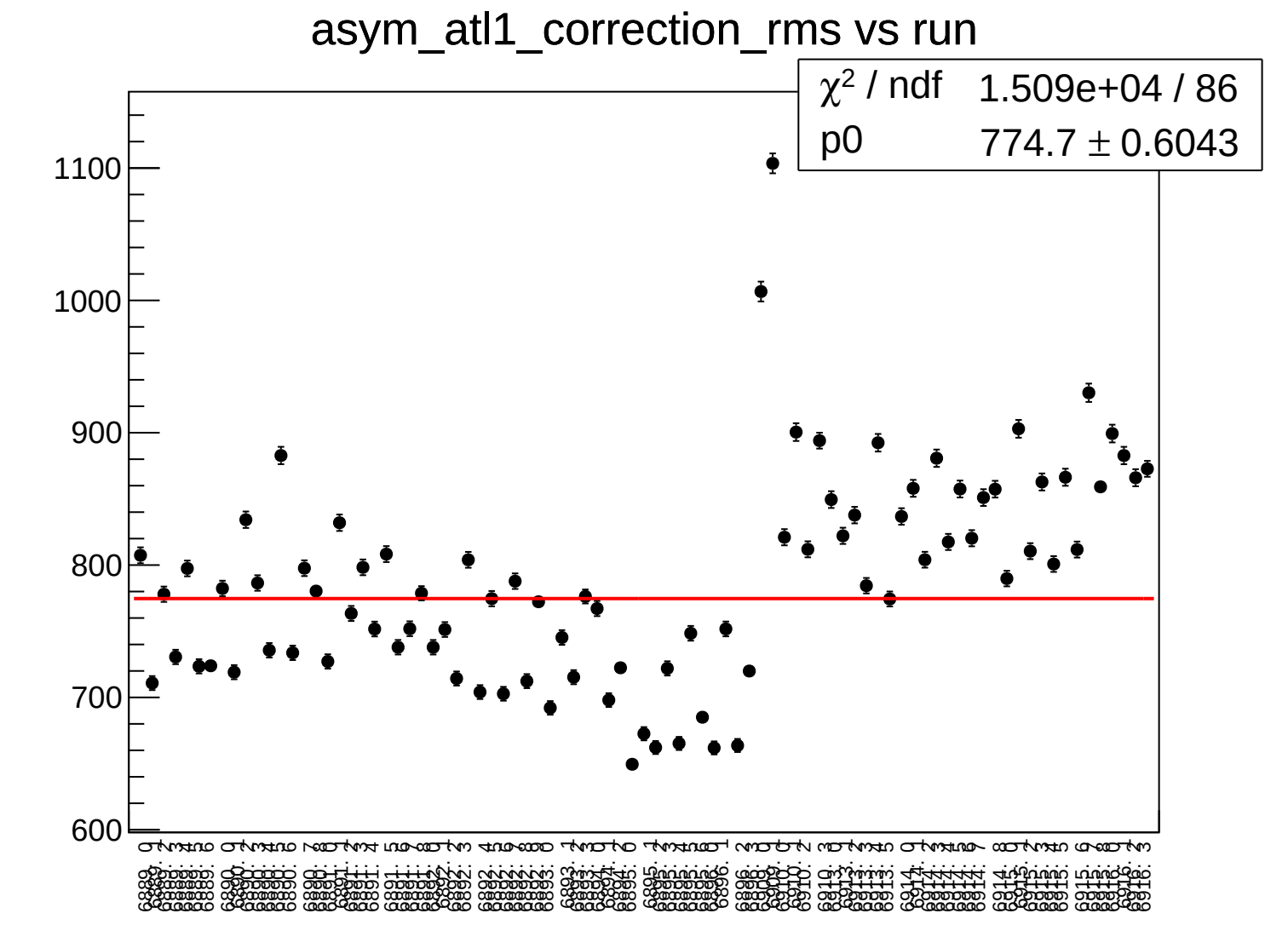

dit_asym_atl1_mean vs run
χ² / ndf 65.52 / 86
p0 −7420 ± 2659
pull
Entries 87
Mean 9763
Std Dev 9720

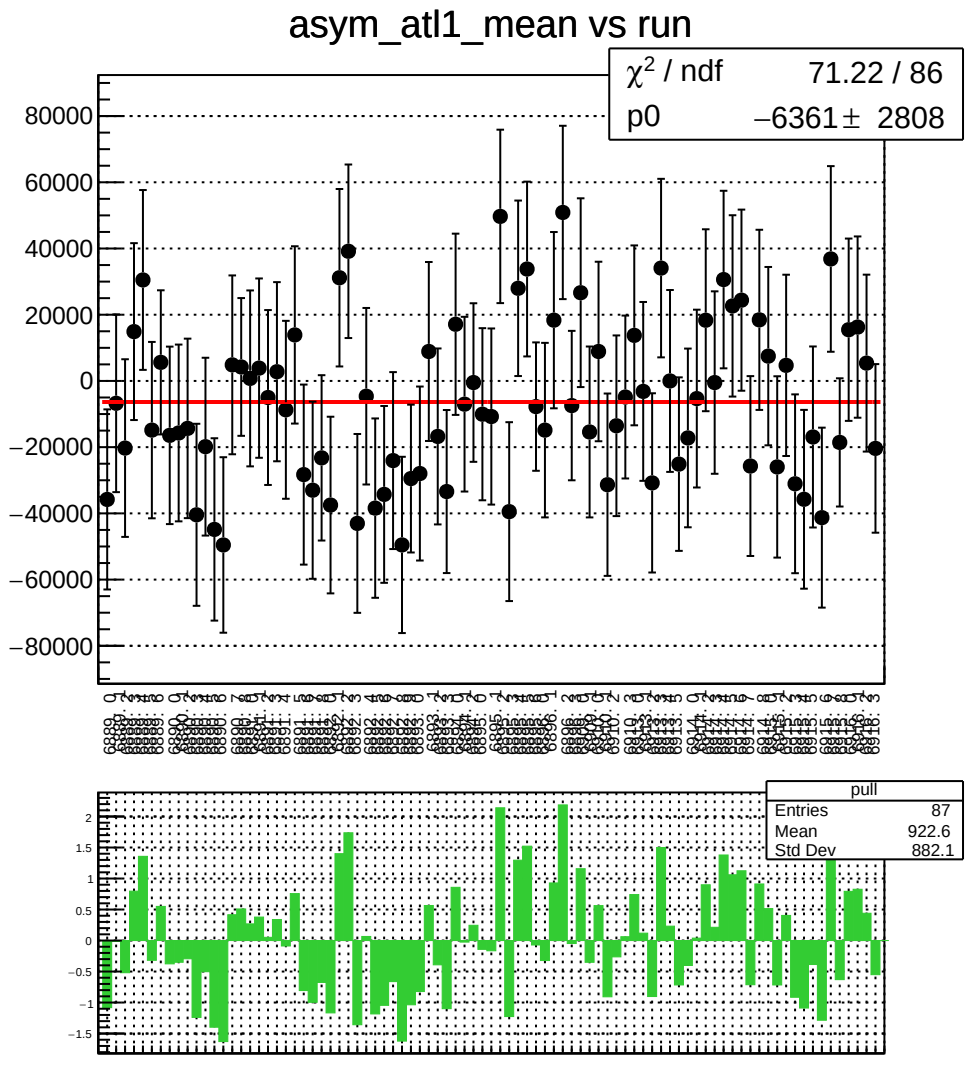

pull1D
Entries 87
Mean 0.0003838
Std Dev 0.8678

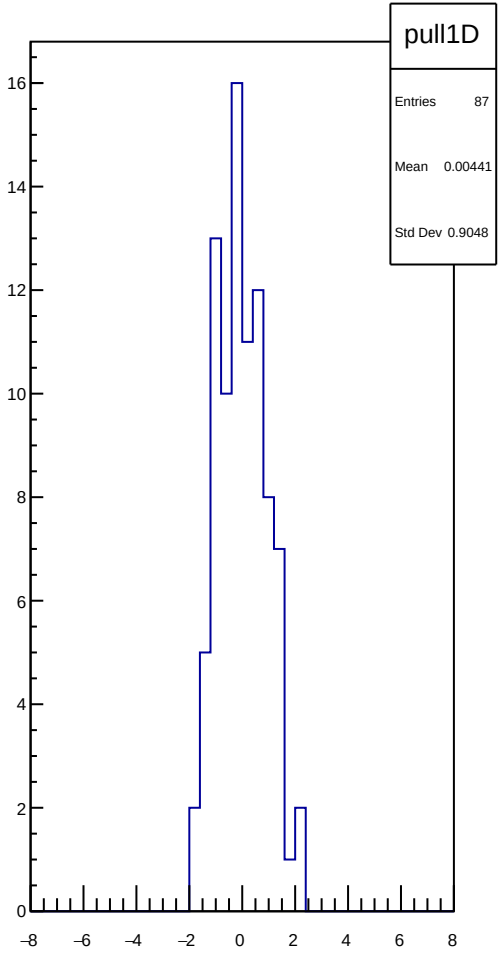

dit_asym_atl1_rms vs run
χ² / ndf 108 / 86
p0 2422 ± 1.88
2500
2480
2460
2440
2420
2400
2380
2360

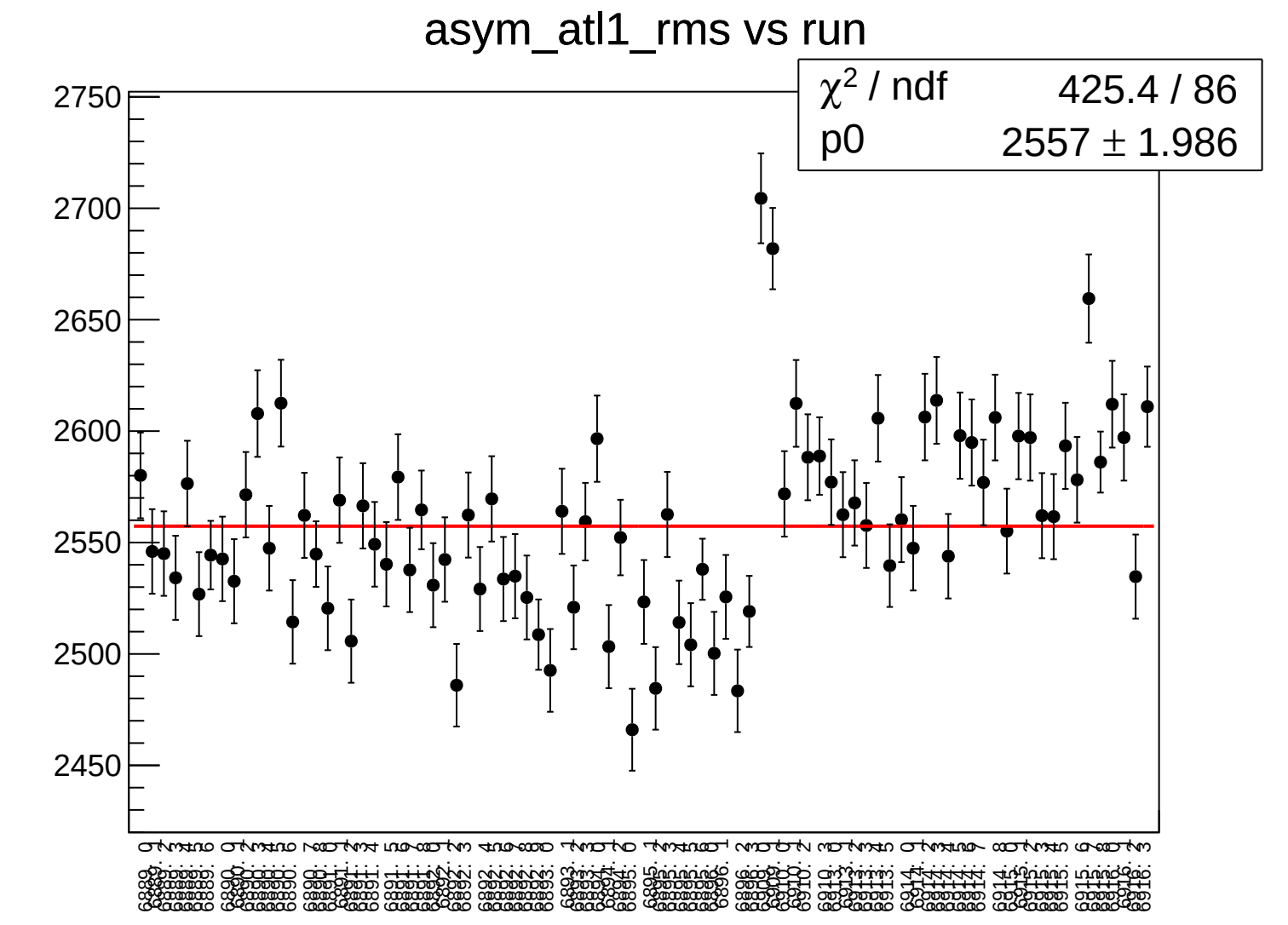

asym_atl1_correction_mean vs run
χ² / ndf 94.02 / 86
p0 −1310 ± 854.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −1106
Std Dev 1115
2
1
0
−1
−2

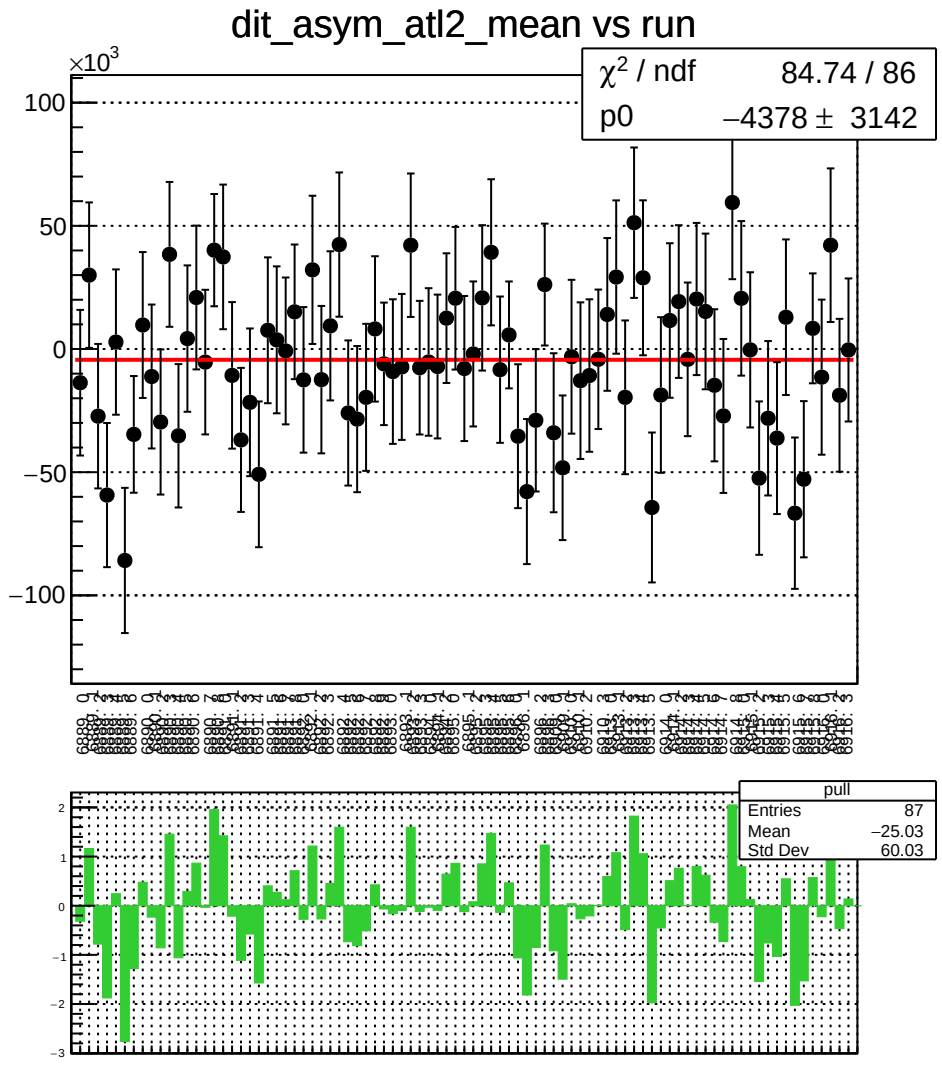

pull1D
Entries 87
Mean 0.001191
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

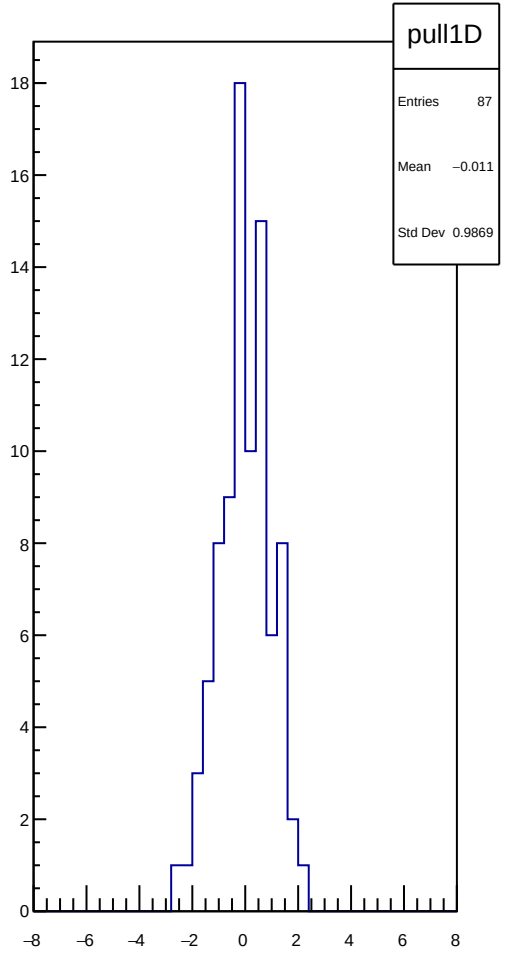

asym_atl1_correction_rms vs run
χ² / ndf 1.509e+04 / 86
p0 774.7 ± 0.6043
1100
1000
900
800
700
600

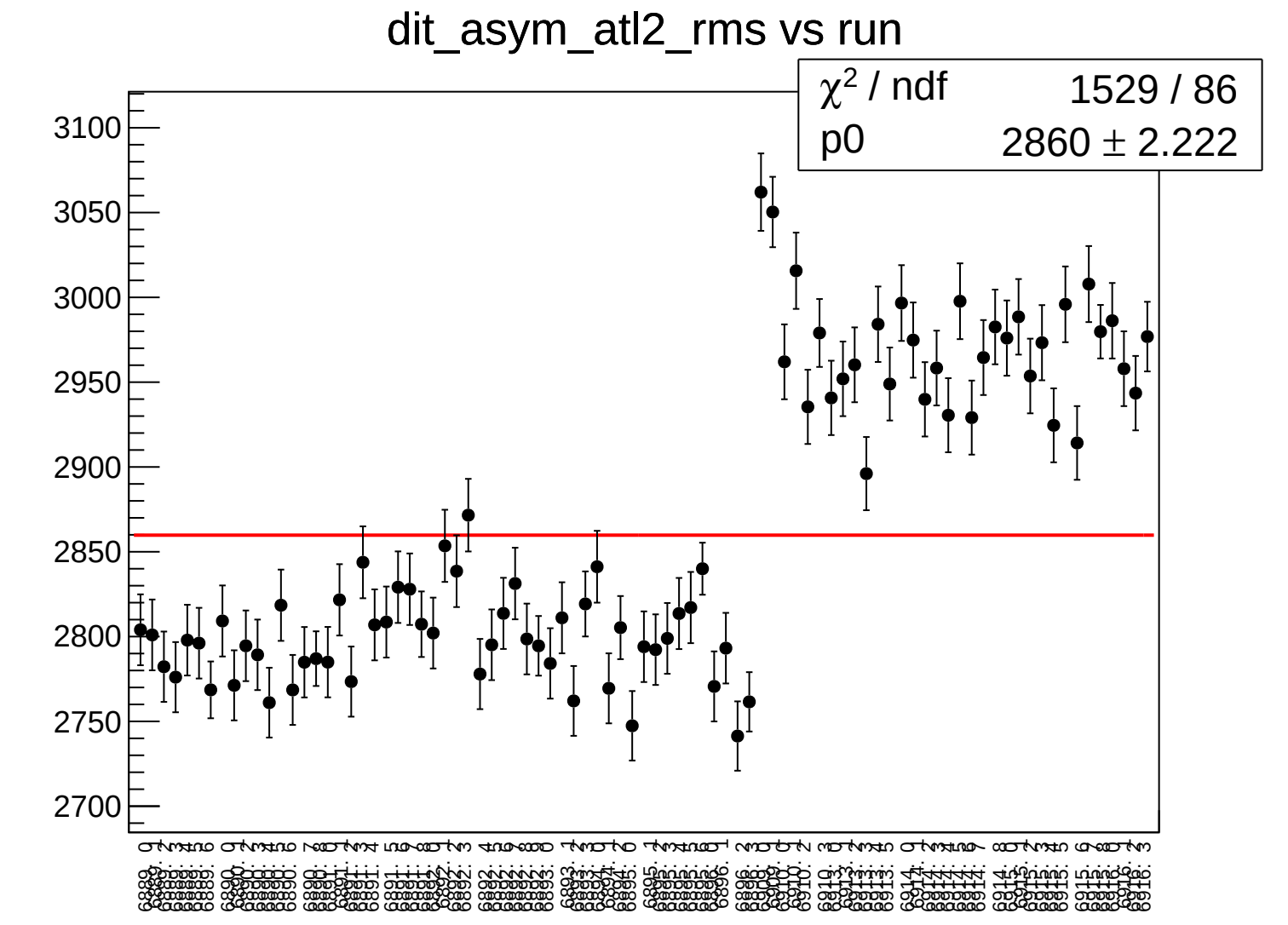

asym_atl1_mean vs run
χ² / ndf 71.22 / 86
p0 −6361 ± 2808
pull
Entries 87
Mean 922.6
Std Dev 882.1

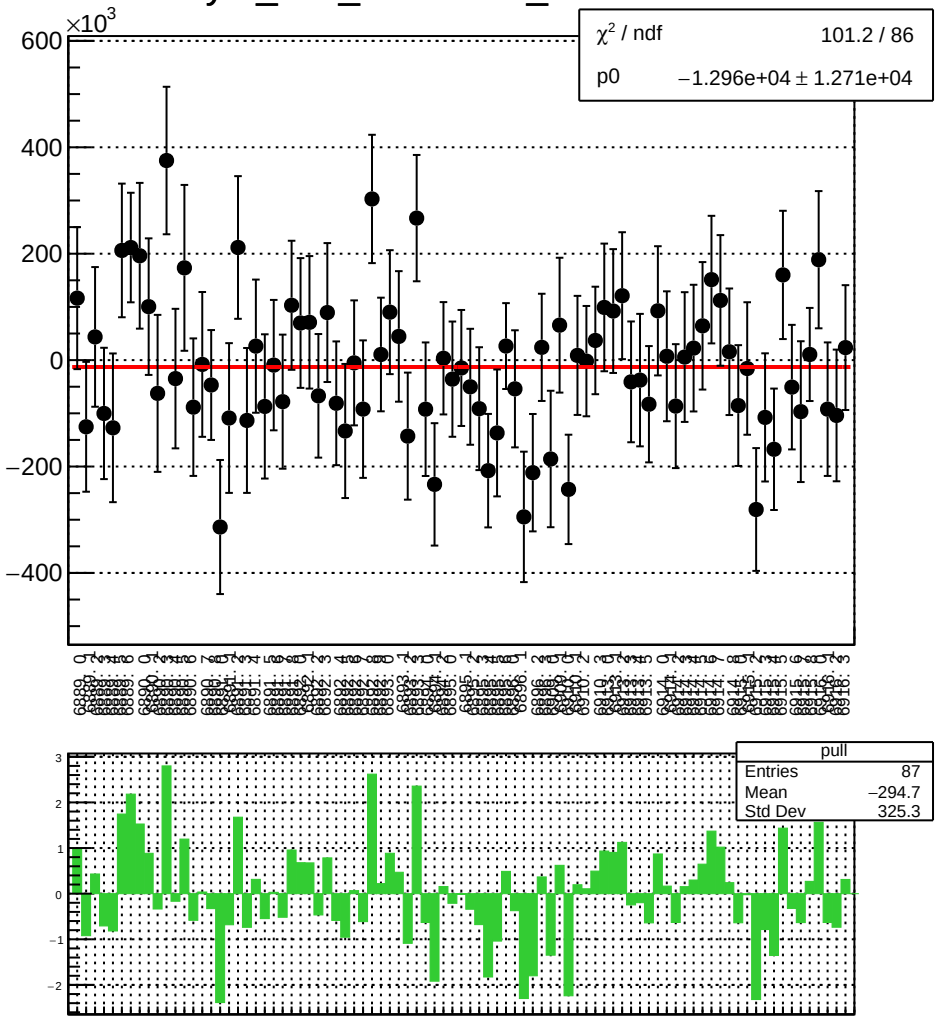

pull1D
Entries 87
Mean 0.00441
Std Dev 0.9048

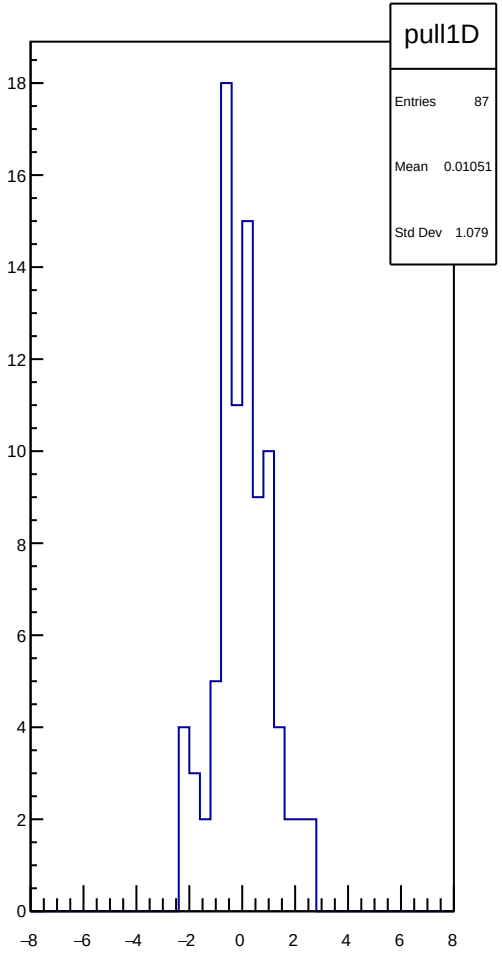

asym_atl1_rms vs run
χ^2 / ndf 425.4 / 86
p0 2557 ± 1.986
2750
2700
2650
2600
2550
2500
2450

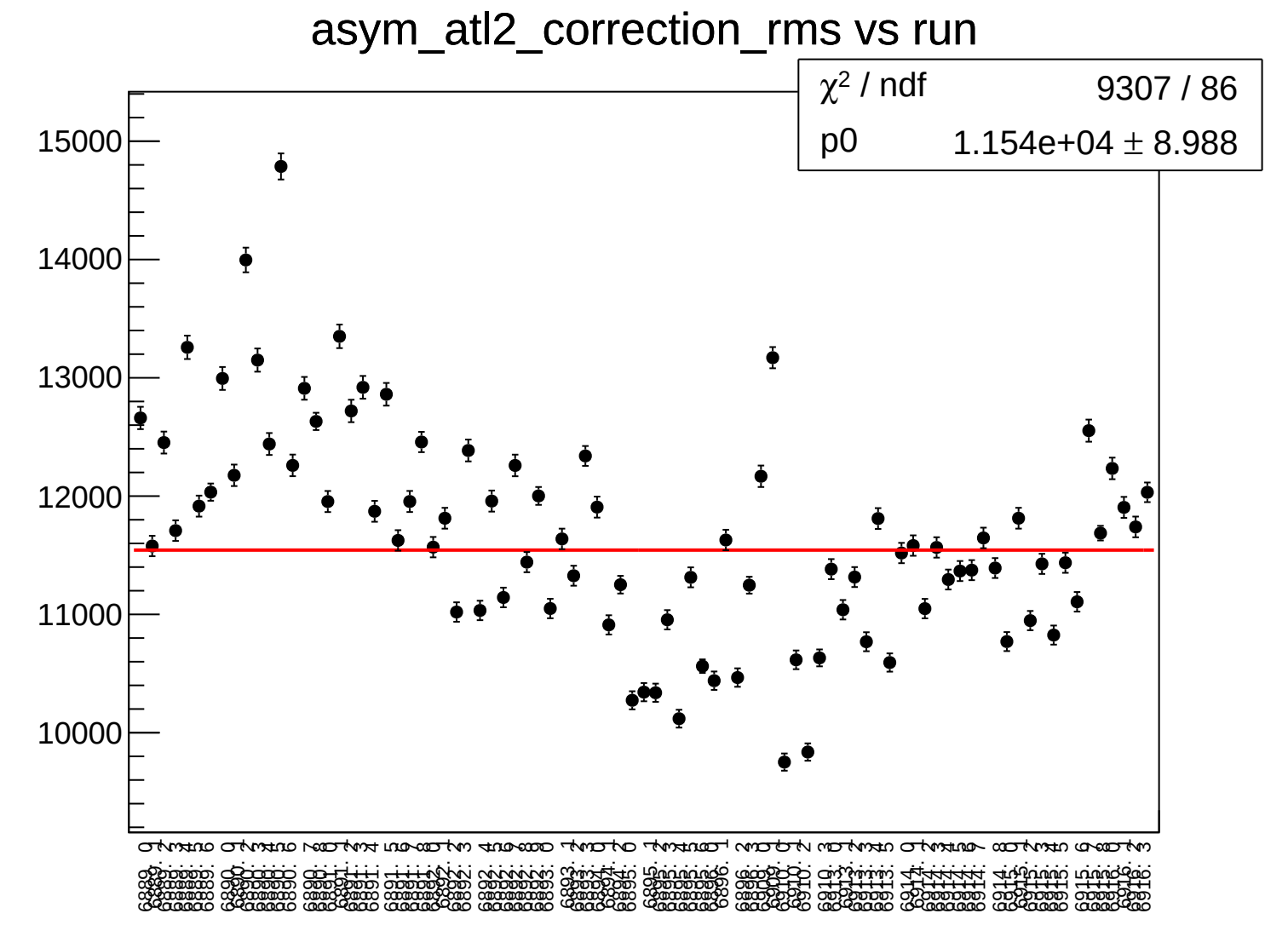

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 84.74 / 86
p0 −4378 ± 3142
100
50
0
−50
−100
pull
Entries 87
Mean −25.03
Std Dev 60.03
2
1
0
−1
−2
−3

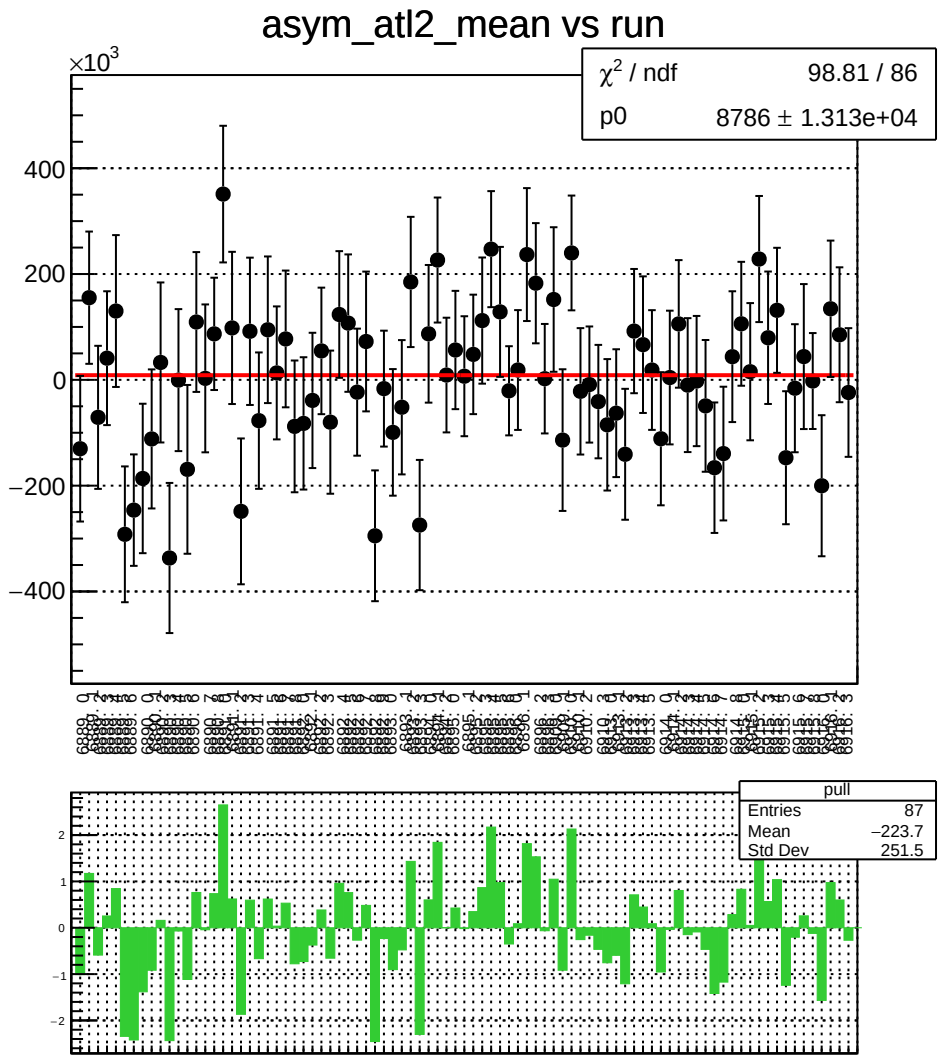

pull1D
Entries 87
Mean −0.011
Std Dev 0.9869
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

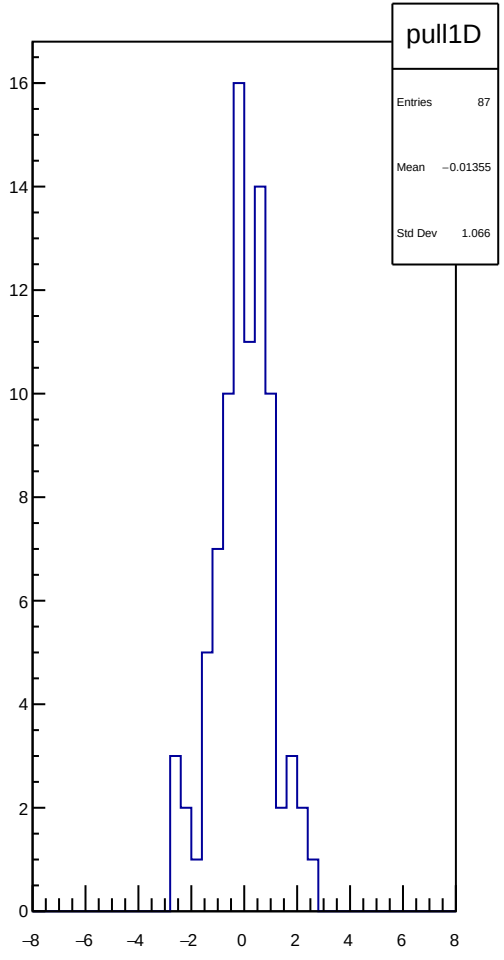

dit_asym_atl2_rms vs run
χ^2 / ndf 1529 / 86
p0 2860 ± 2.222
3100
3050
3000
2950
2900
2850
2800
2750
2700

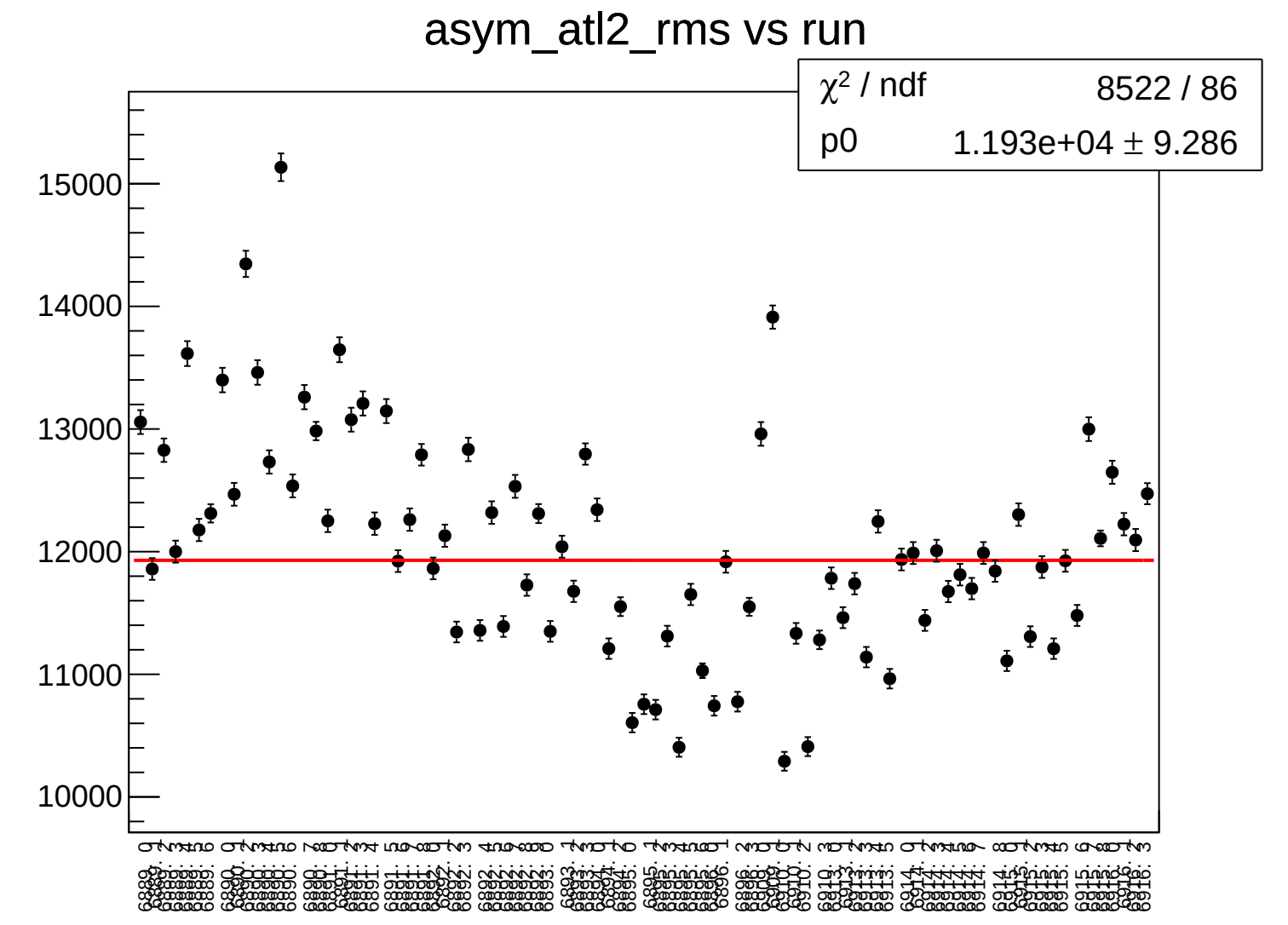

asym_atl2_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 101.2 / 86
p0 −1.296e+04 ± 1.271e+04
pull
Entries 87
Mean −294.7
Std Dev 325.3
3
2
1
0
−1
−2

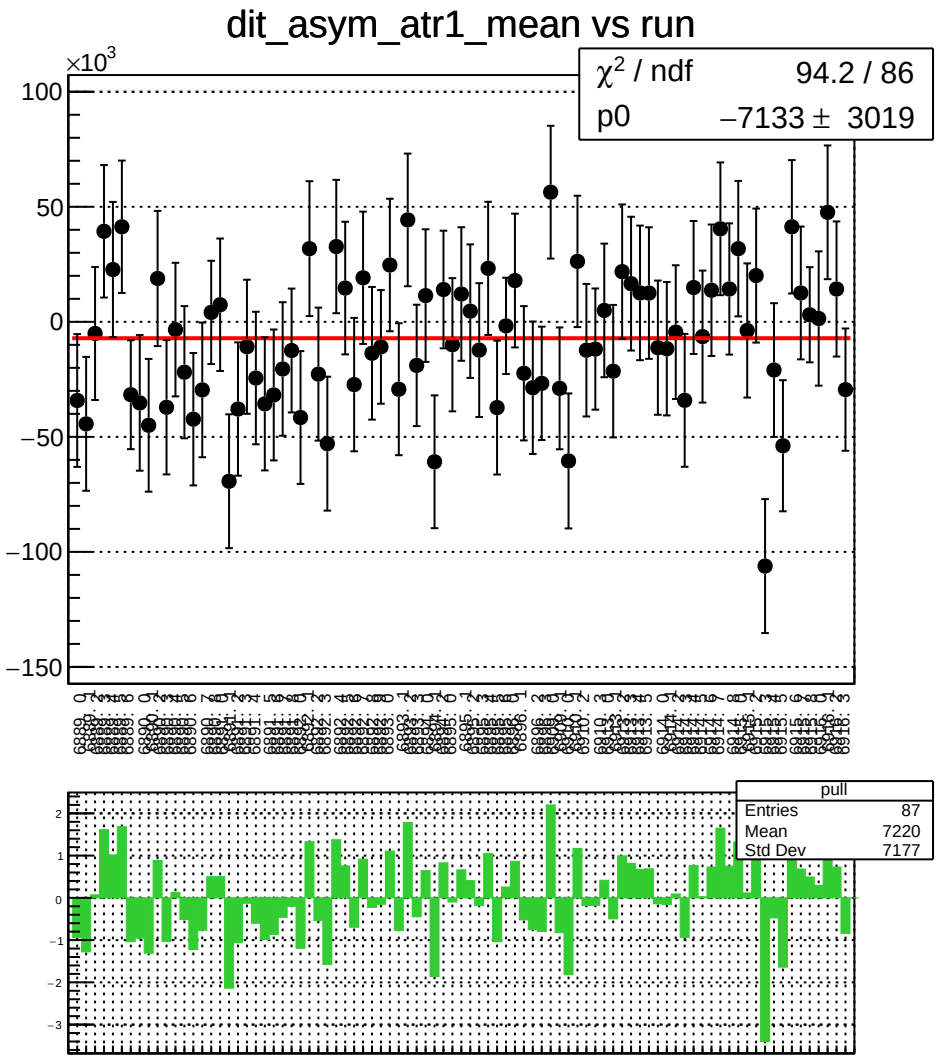

pull1D
Entries 87
Mean 0.01051
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

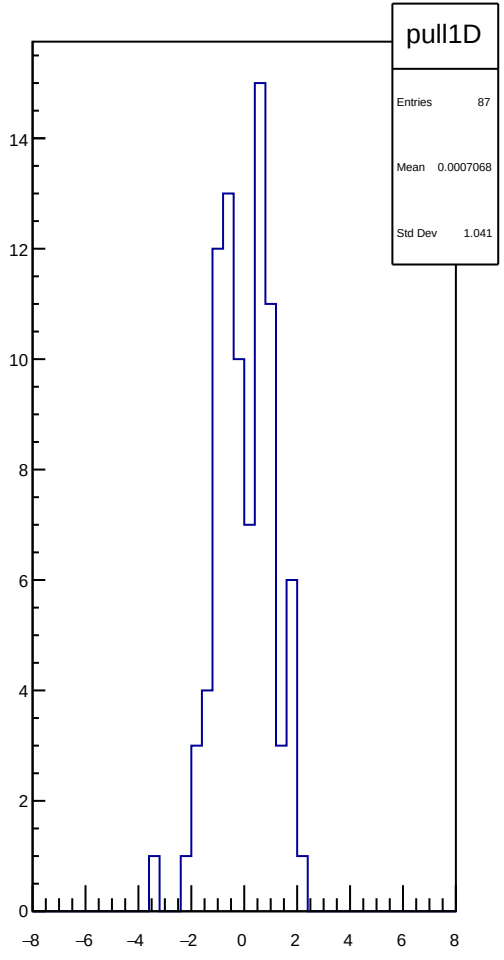

asym_atl2_correction_rms vs run
χ² / ndf 9307 / 86
p0 1.154e+04 ± 8.988
15000
14000
13000
12000
11000
10000

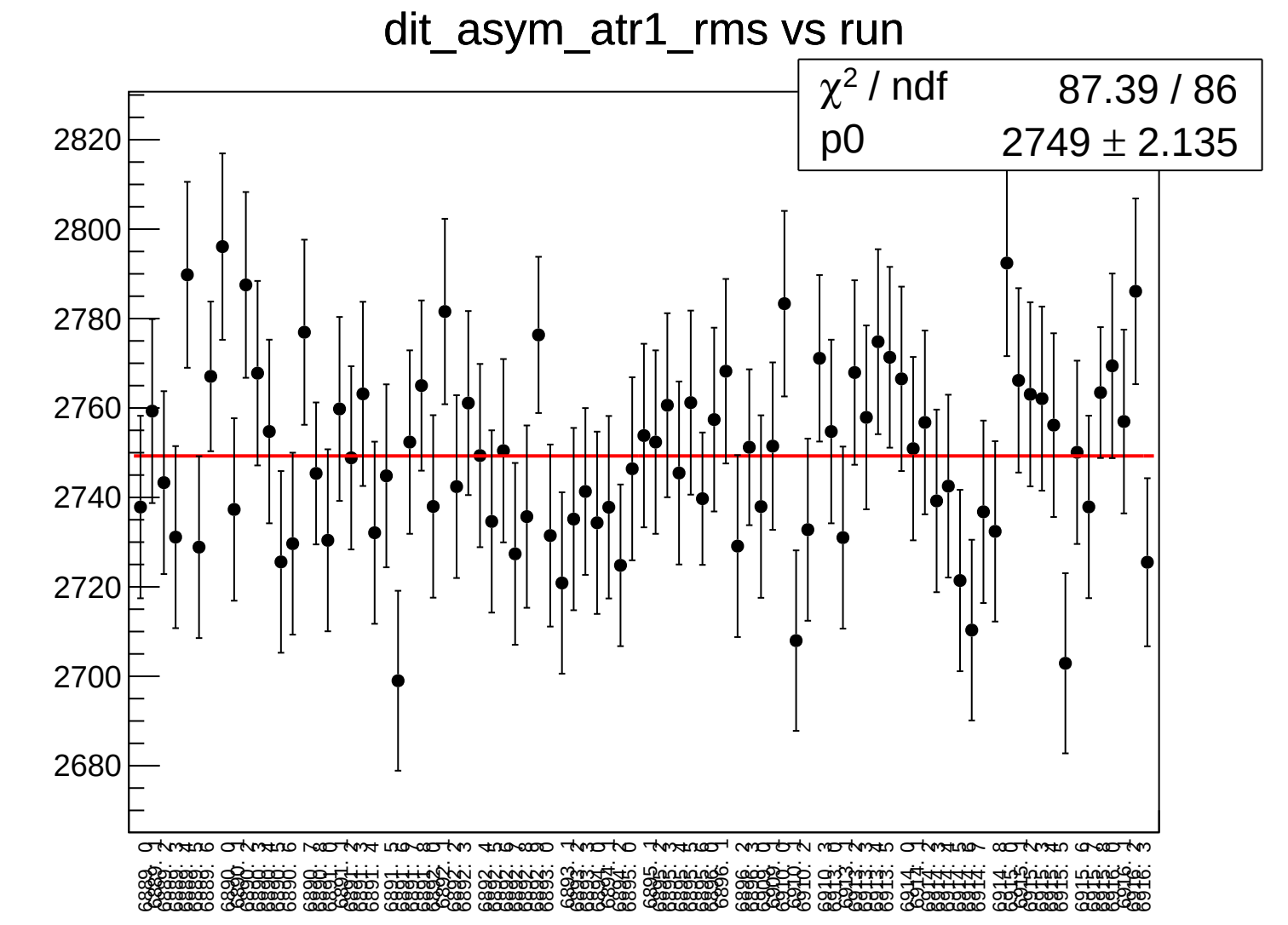

asym_atl2_mean vs run
×10^3
χ² / ndf 98.81 / 86
p0 8786 ± 1.313e+04
400
200
0
−200
−400
pull
Entries 87
Mean −223.7
Std Dev 251.5
2
1
0
−1
−2

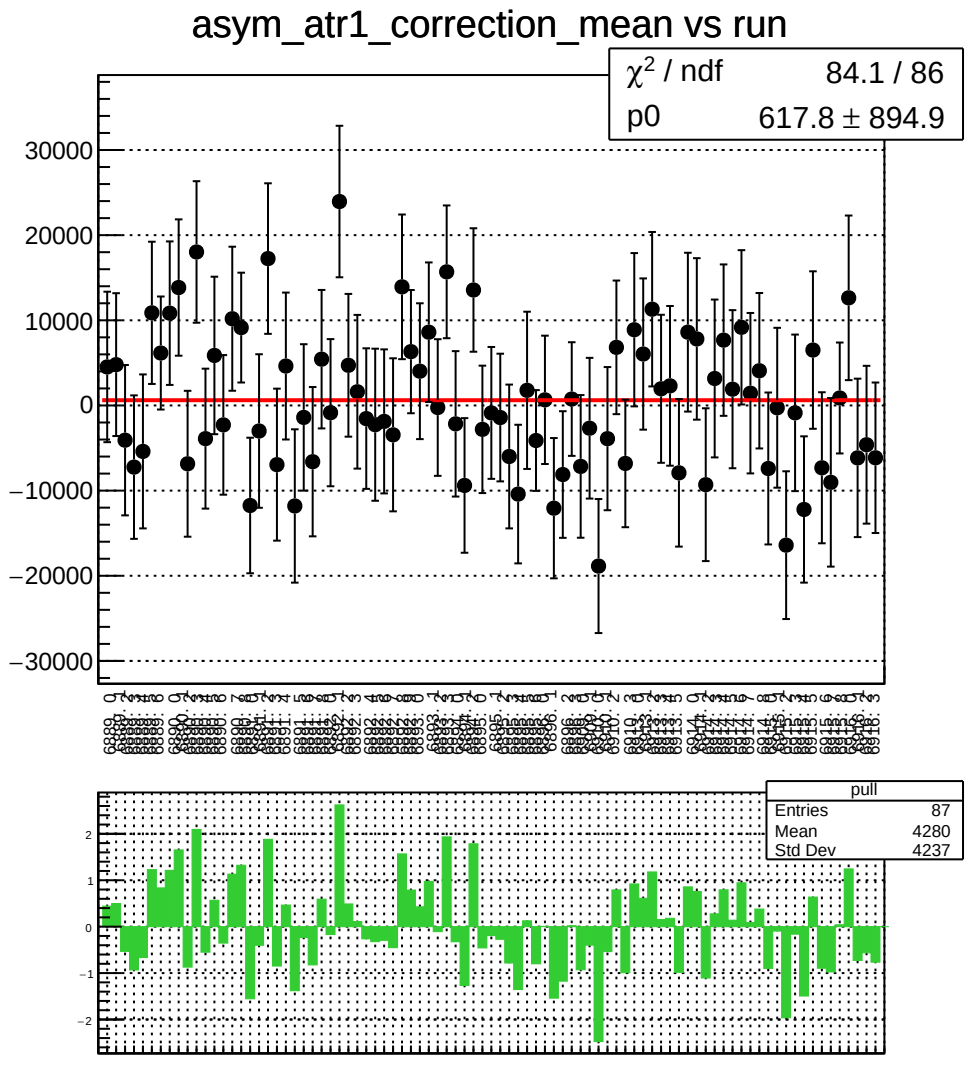

pull1D
Entries 87
Mean −0.01355
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

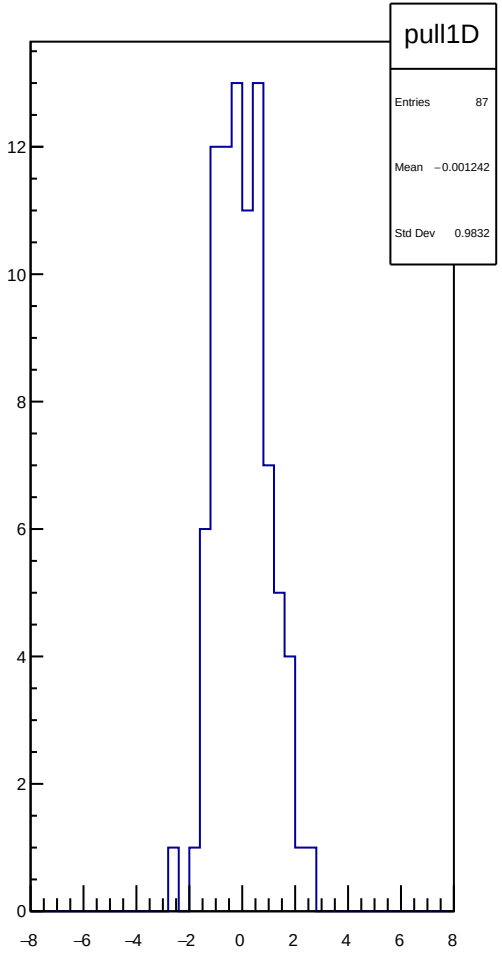

asym_atl2_rms vs run
χ² / ndf 8522 / 86
p0 1.193e+04 ± 9.286
15000
14000
13000
12000
11000
10000

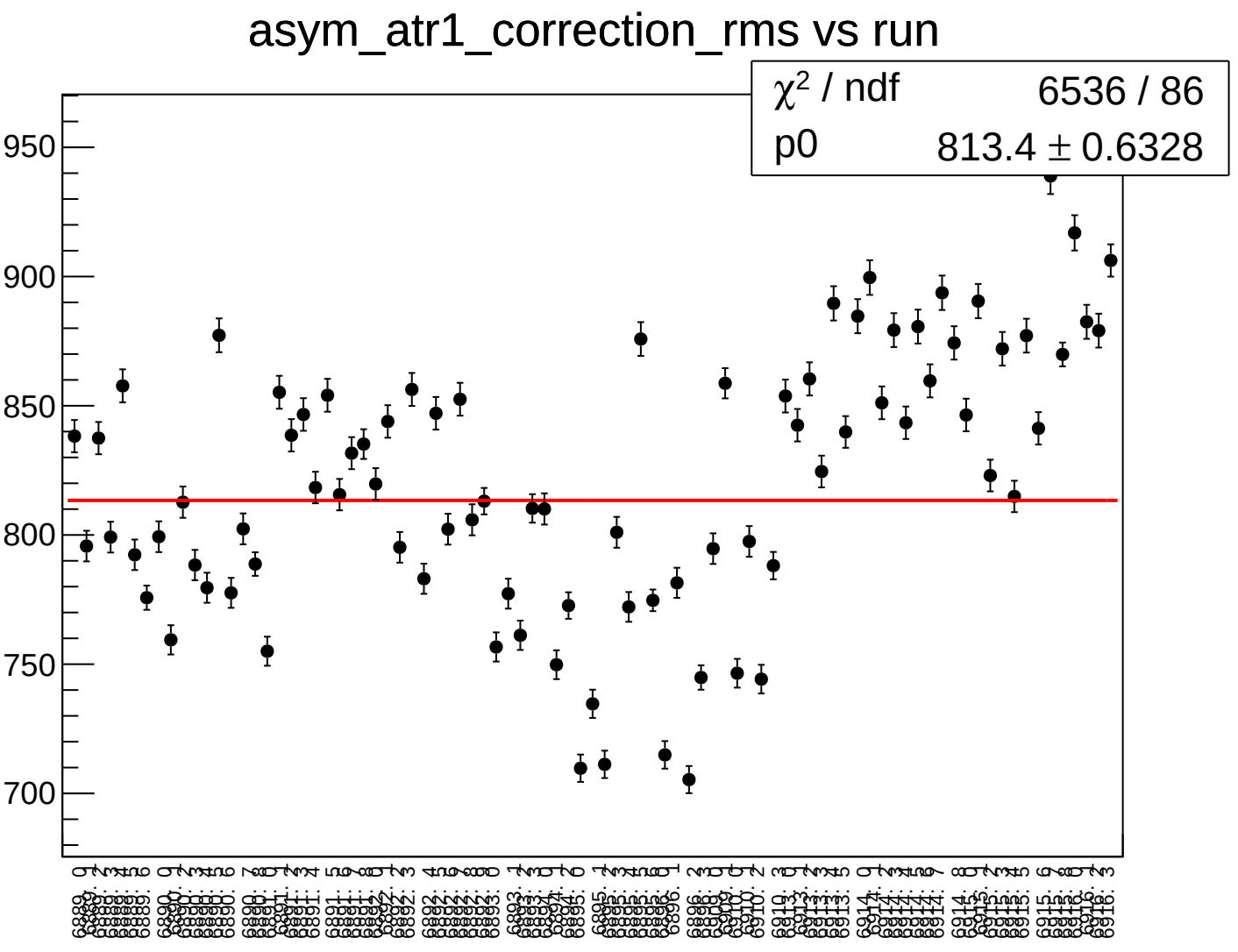

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 94.2 / 86
p0 −7133 ± 3019
100
50
0
−50
−100
−150
pull
Entries 87
Mean 7220
Std Dev 7177
2
1
0
−1
−2
−3

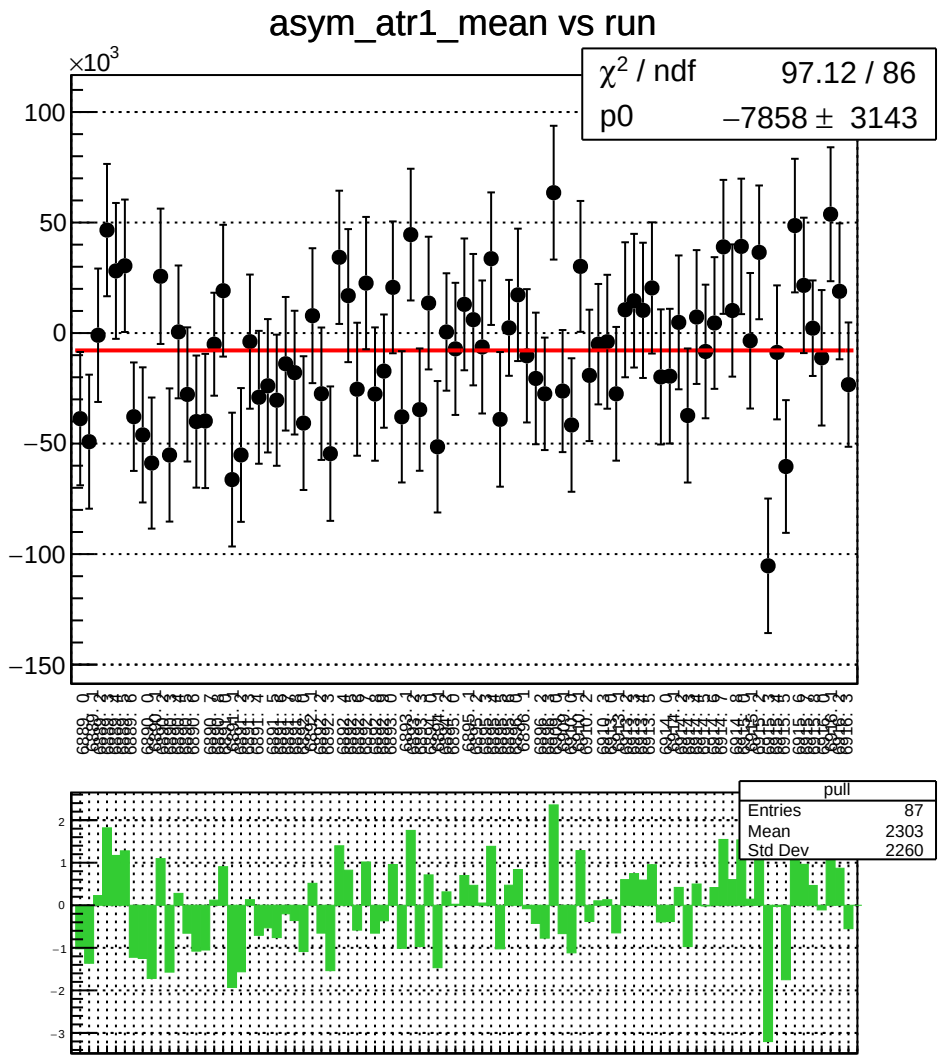

pull1D
Entries 87
Mean 0.0007068
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

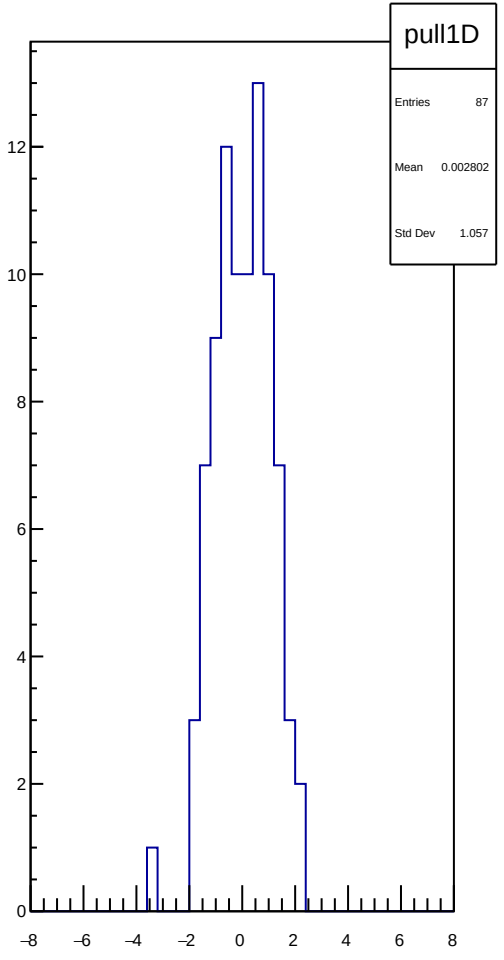

dit_asym_atr1_rms vs run
χ^2 / ndf 87.39 / 86
p0 2749 ± 2.135
2820
2800
2780
2760
2740
2720
2700
2680

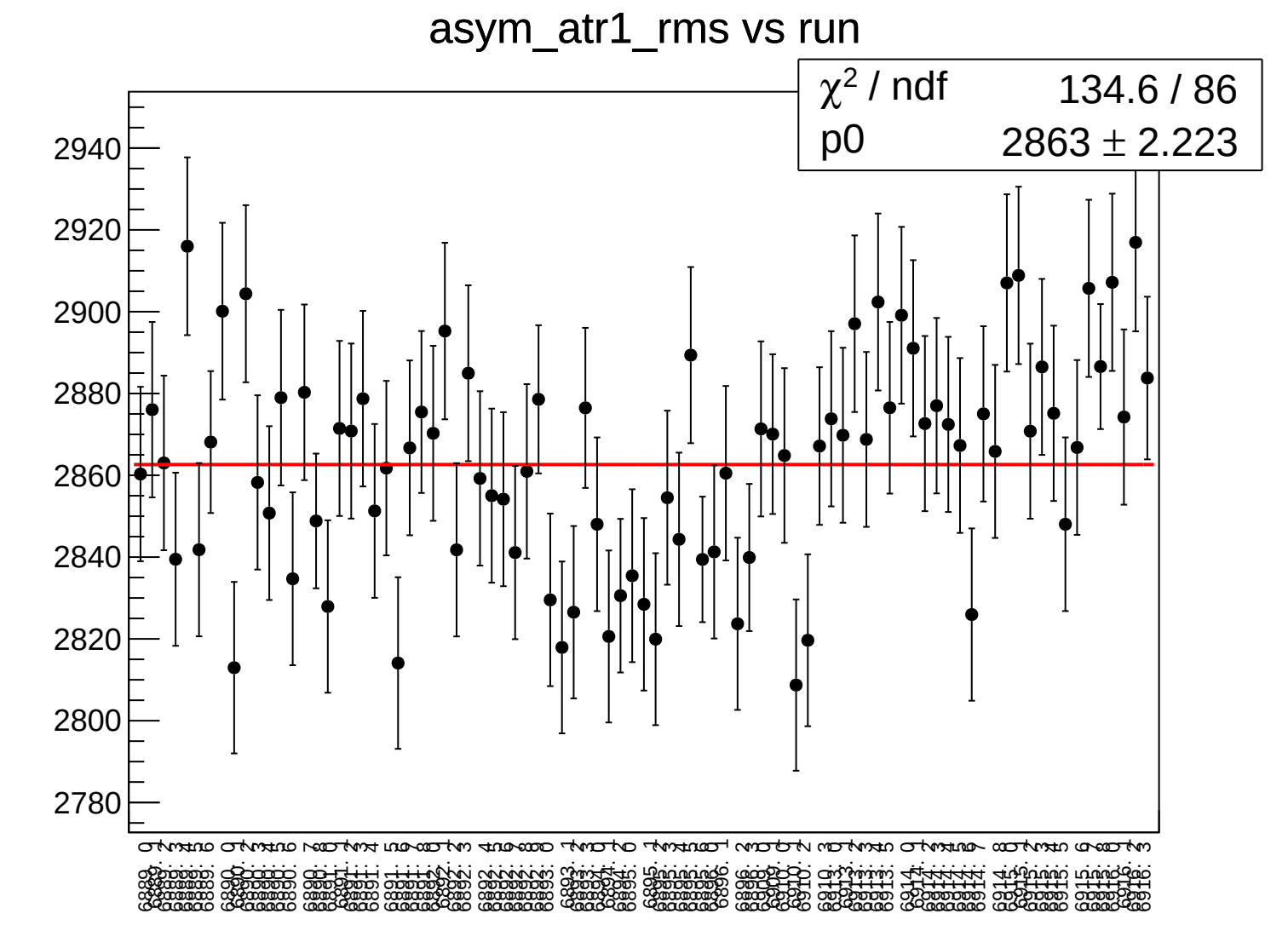

asym_atr1_correction_mean vs run
χ² / ndf 84.1 / 86
p0 617.8 ± 894.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 4280
Std Dev 4237
2
1
0
−1
−2

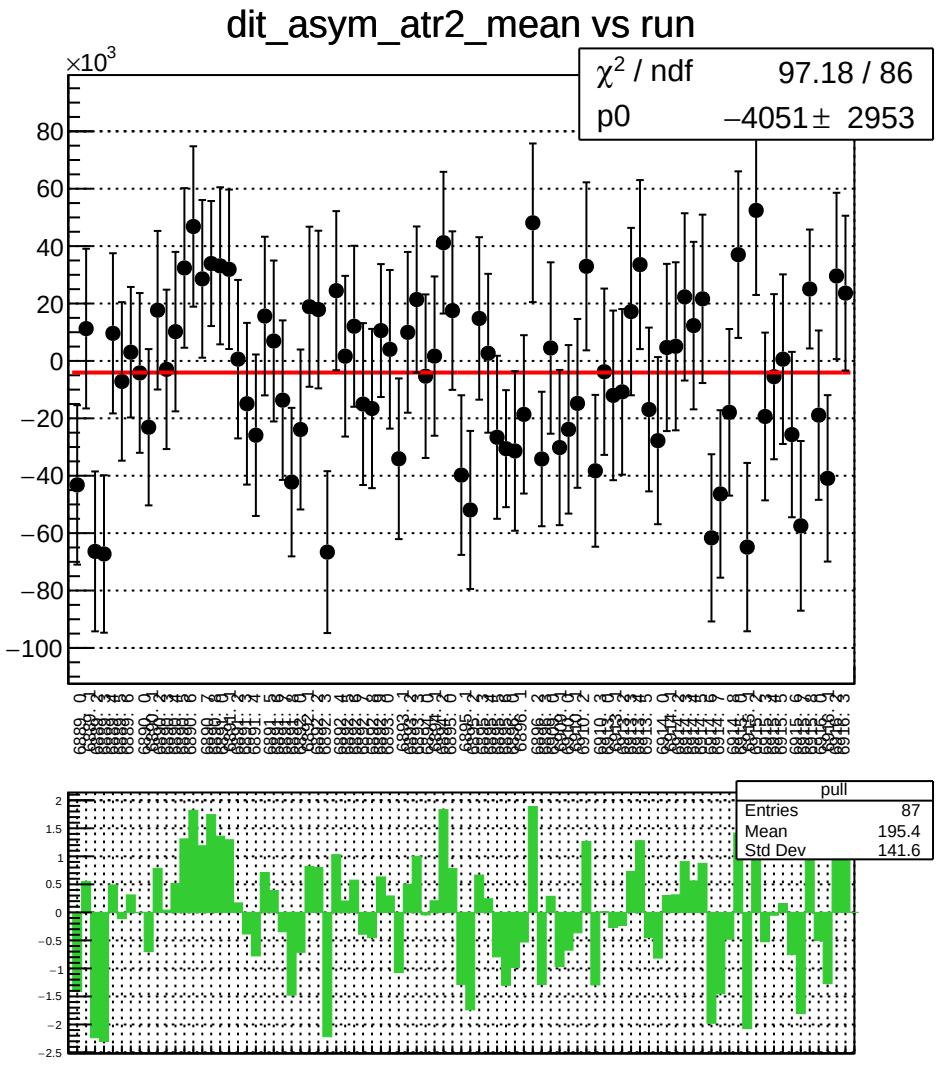

pull1D
Entries 87
Mean −0.001242
Std Dev 0.9832
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

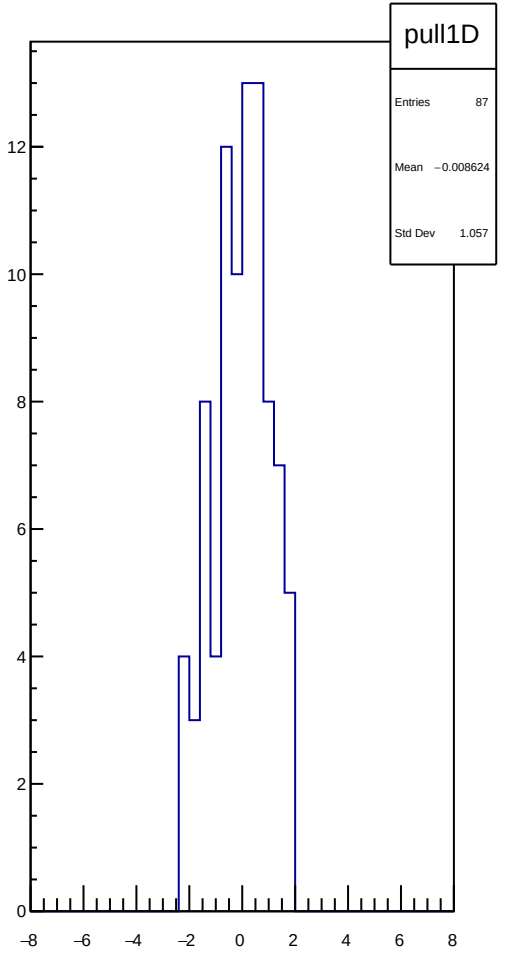

asym_atr1_correction_rms vs run
χ² / ndf 6536 / 86
p0 813.4 ± 0.6328
950
900
850
800
750
700

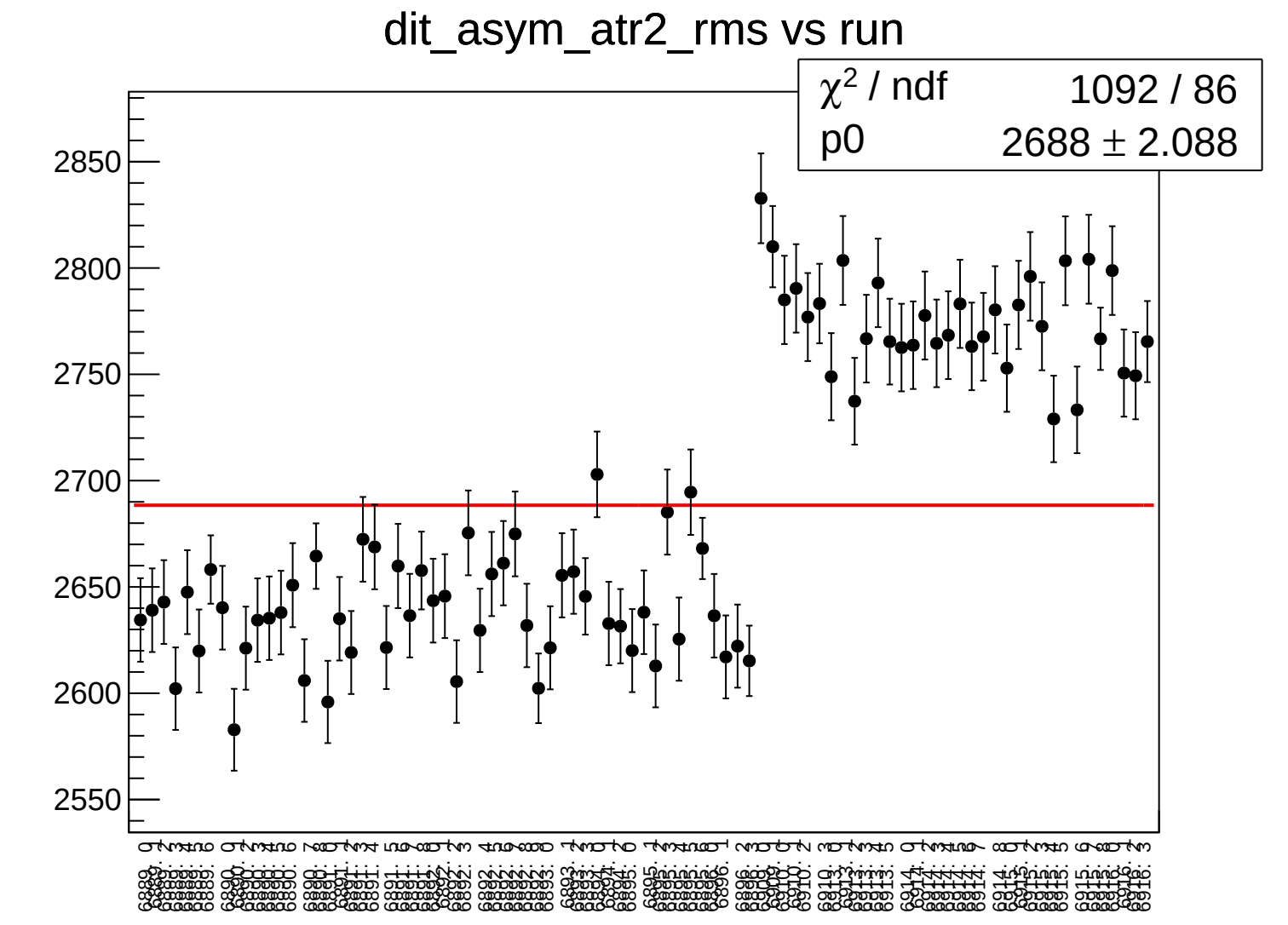

asym_atr1_mean vs run
×10^3
χ² / ndf 97.12 / 86
p0 −7858 ± 3143
100
50
0
−50
−100
−150
pull
Entries 87
Mean 2303
Std Dev 2260
2
1
0
−1
−2
−3

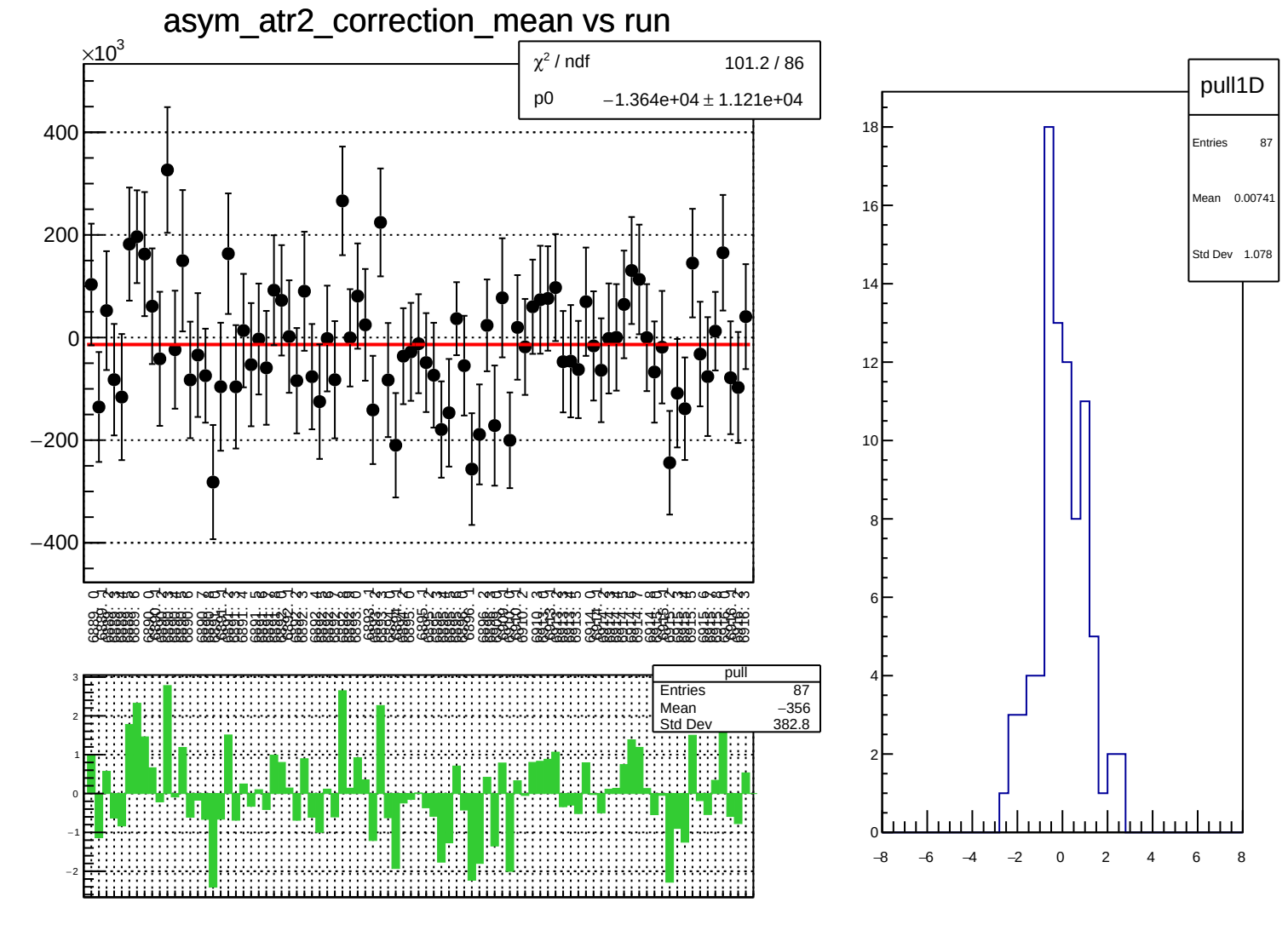

pull1D
Entries 87
Mean 0.002802
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

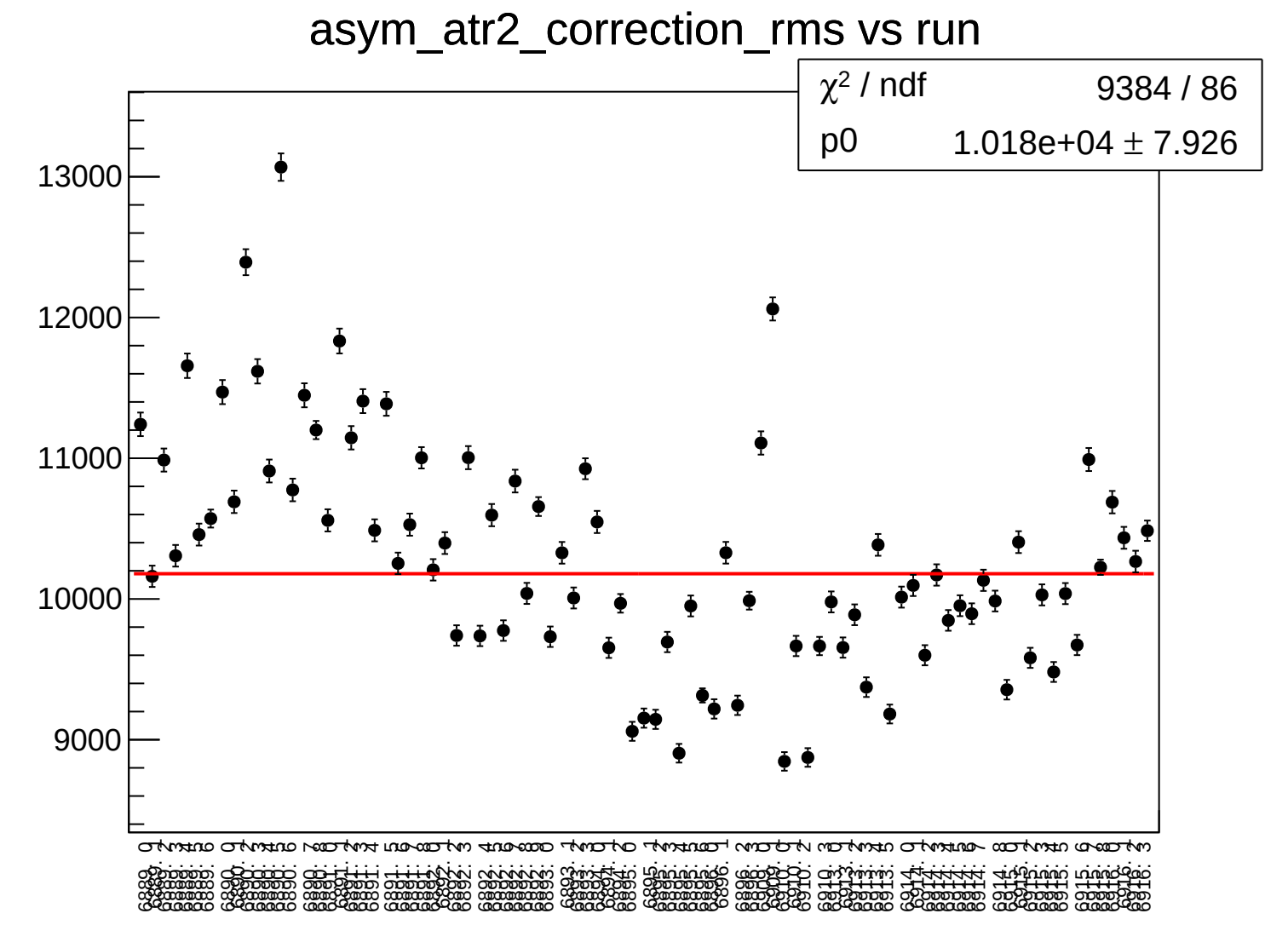

asym_atr1_rms vs run
χ^2 / ndf 134.6 / 86
p0 2863 ± 2.223
2940
2920
2900
2880
2860
2840
2820
2800
2780

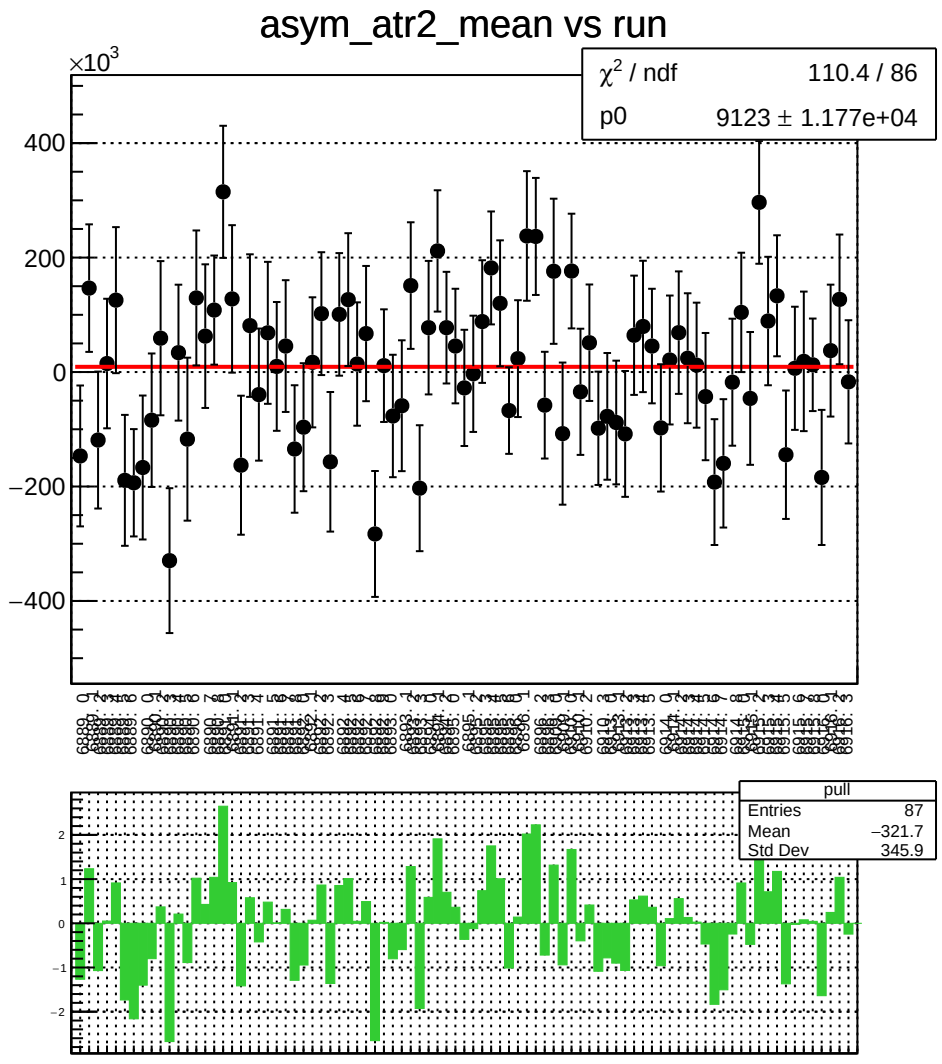

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 97.18 / 86
p0 −4051 ± 2953
pull
Entries 87
Mean 195.4
Std Dev 141.6

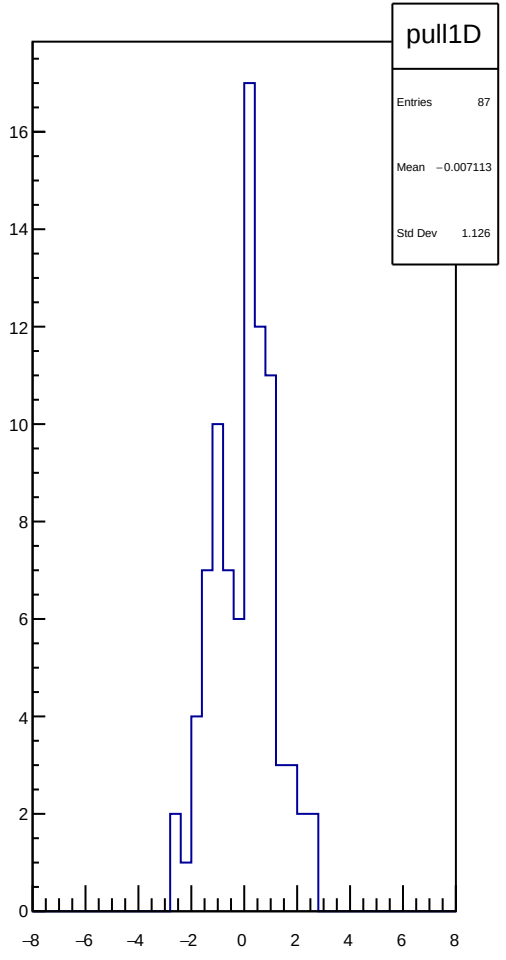

pull1D
Entries 87
Mean −0.008624
Std Dev 1.057

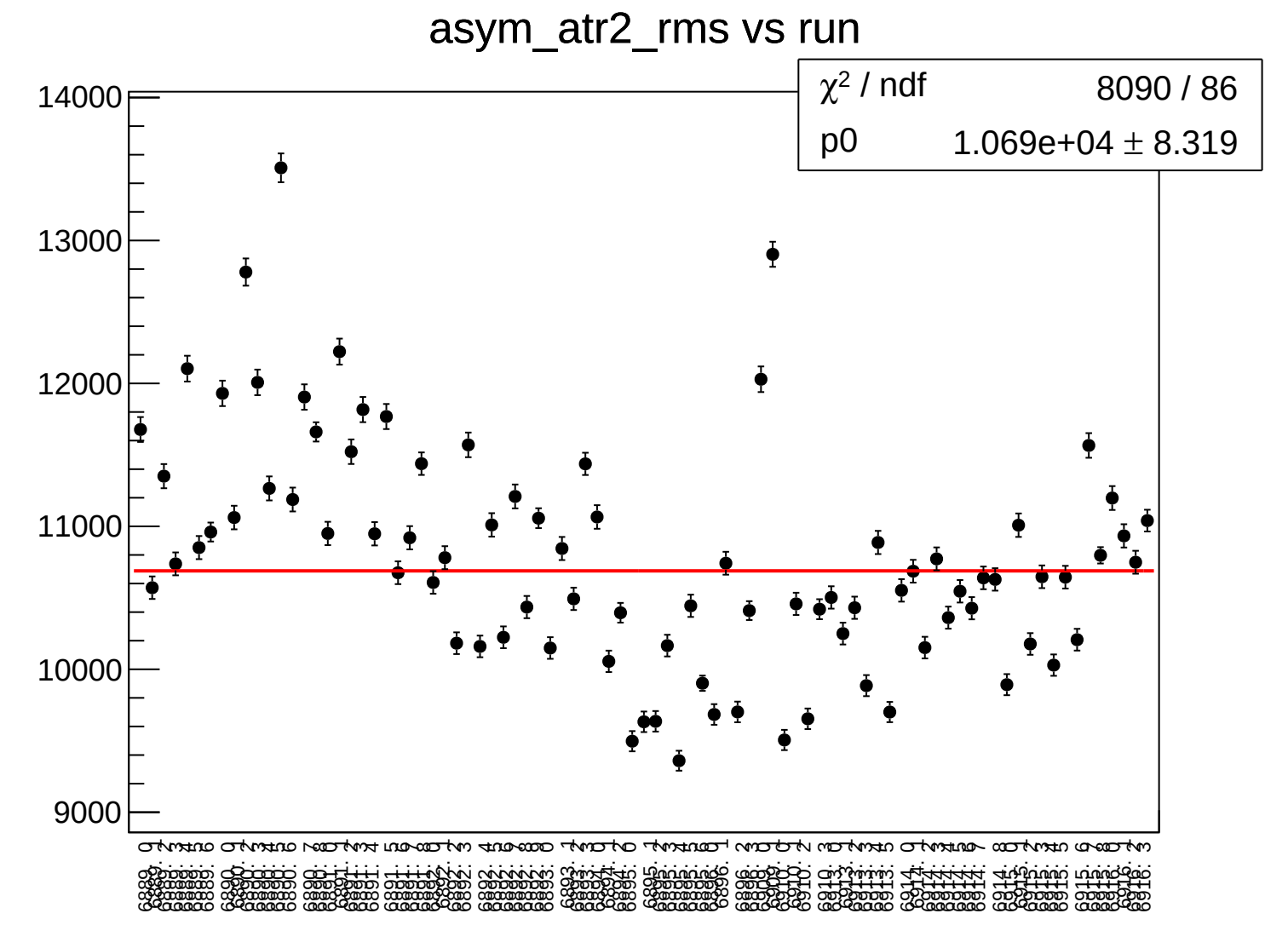

dit_asym_atr2_rms vs run
χ^2 / ndf 1092 / 86
p0 2688 ± 2.088
2850
2800
2750
2700
2650
2600
2550

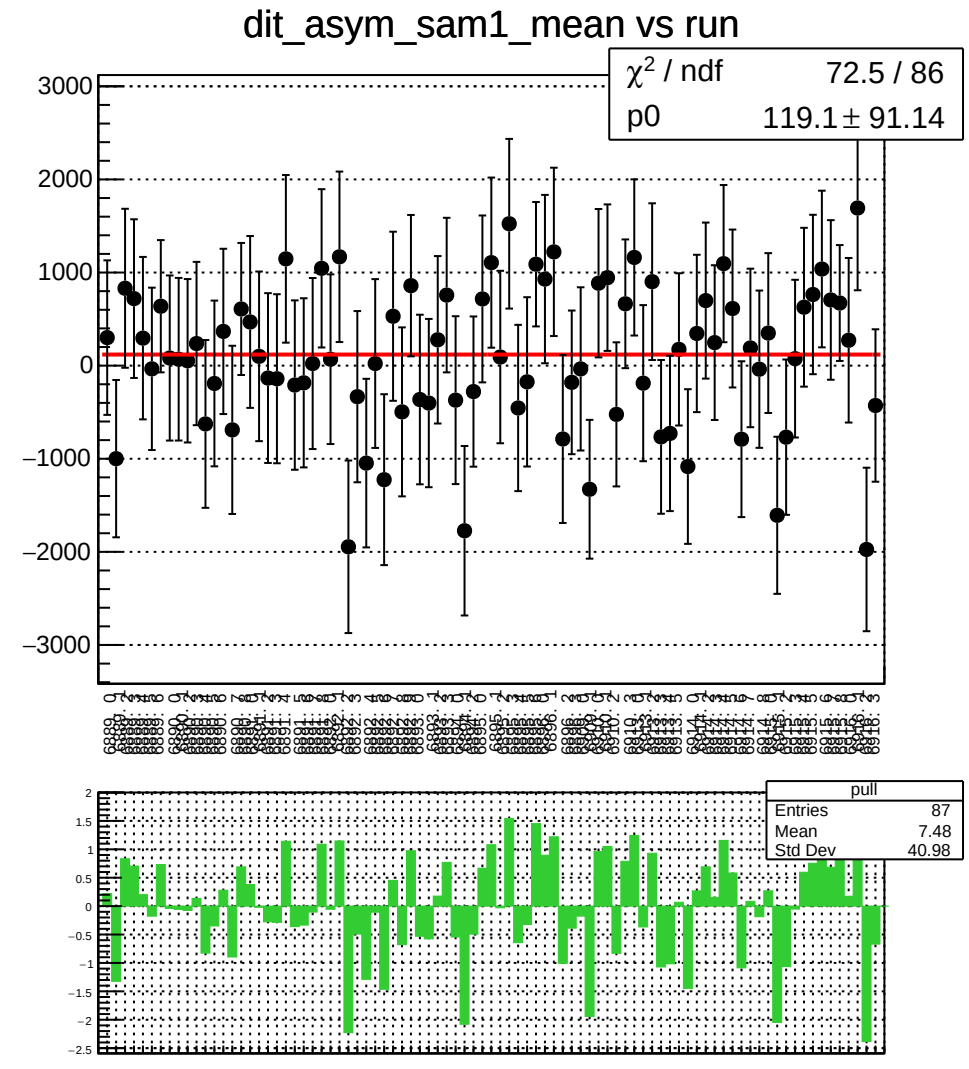

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 101.2 / 86
p0 −1.364e+04 ± 1.121e+04
400
200
0
−200
−400
pull
Entries 87
Mean −356
Std Dev 382.8
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.00741
Std Dev 1.078
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

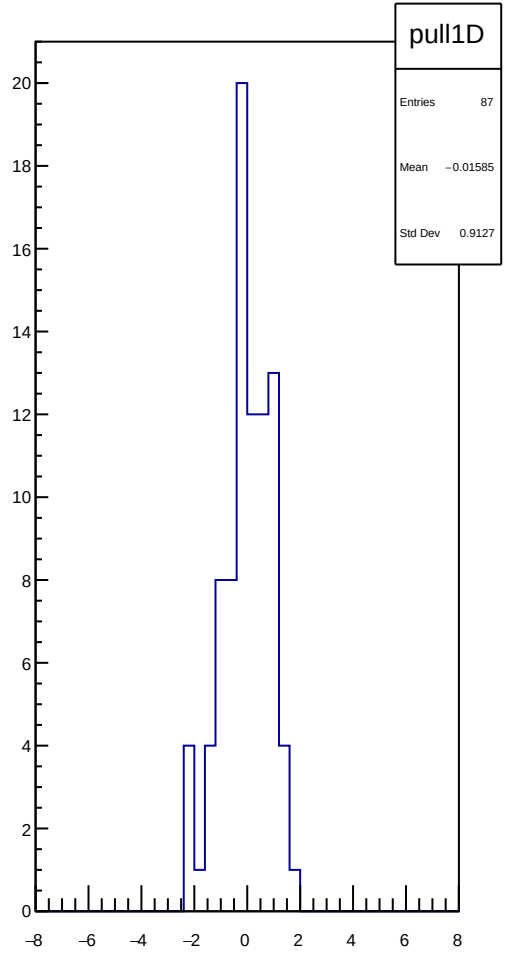

asym_atr2_correction_rms vs run
χ² / ndf 9384 / 86
p0 1.018e+04 ± 7.926
13000
12000
11000
10000
9000

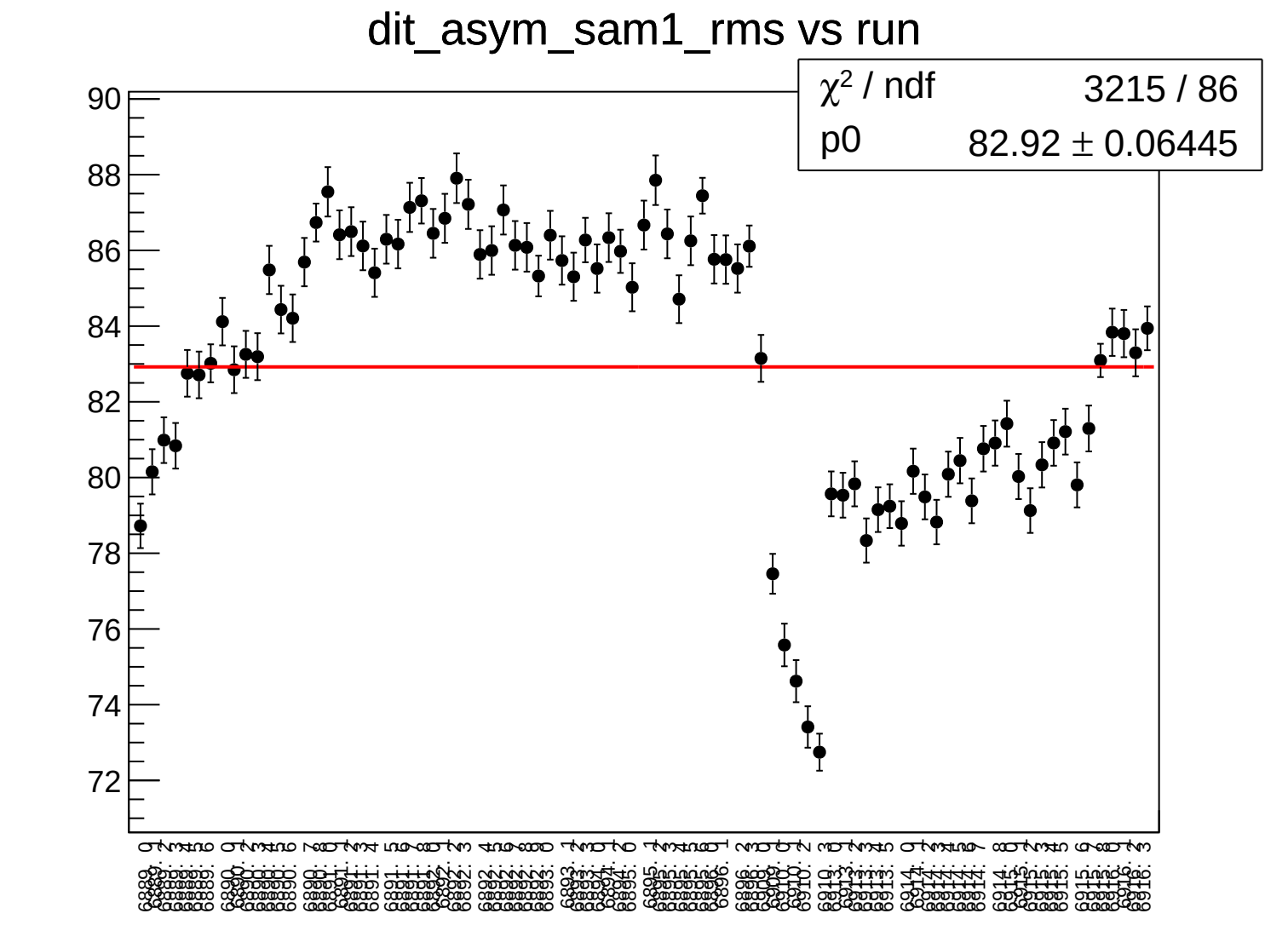

asym_atr2_mean vs run
×10^3
χ² / ndf 110.4 / 86
p0 9123 ± 1.177e+04
400
200
0
−200
−400
pull
Entries 87
Mean −321.7
Std Dev 345.9
2
1
0
−1
−2

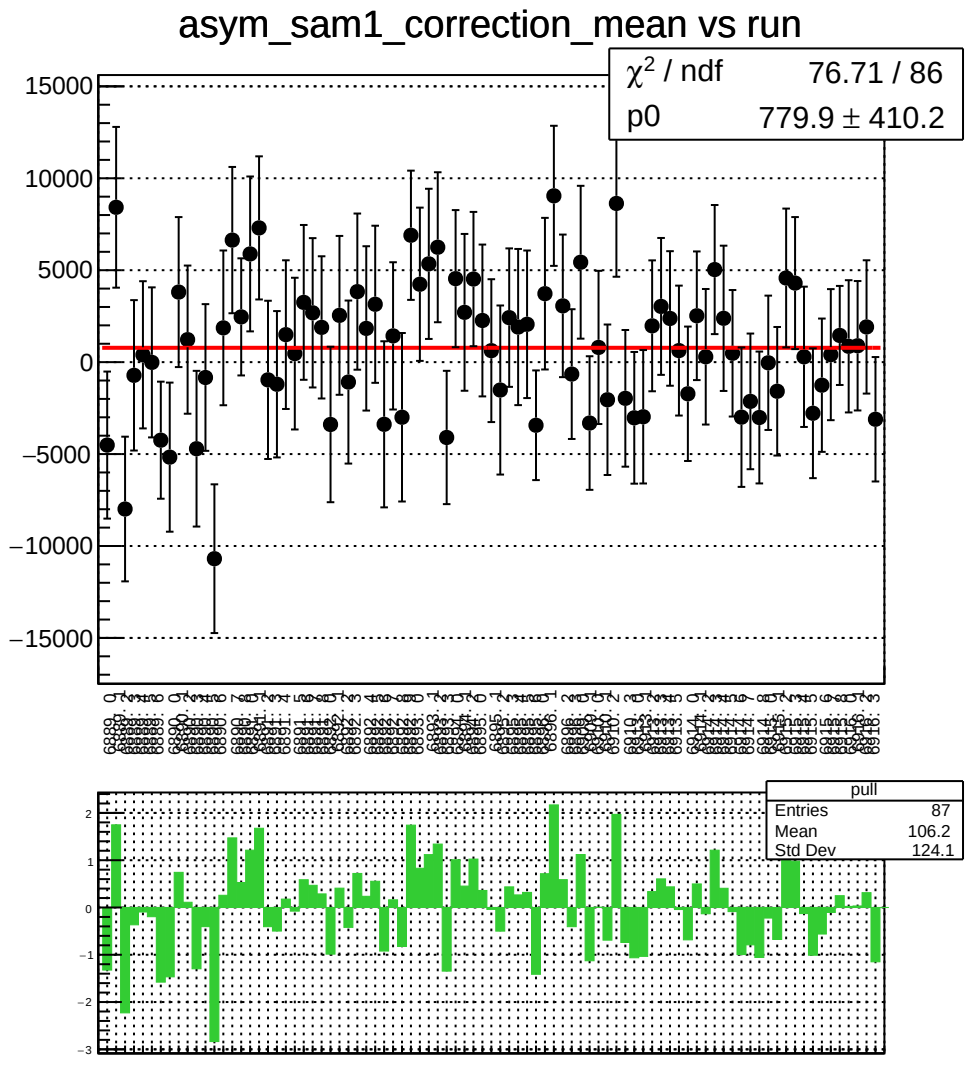

pull1D
Entries 87
Mean −0.007113
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

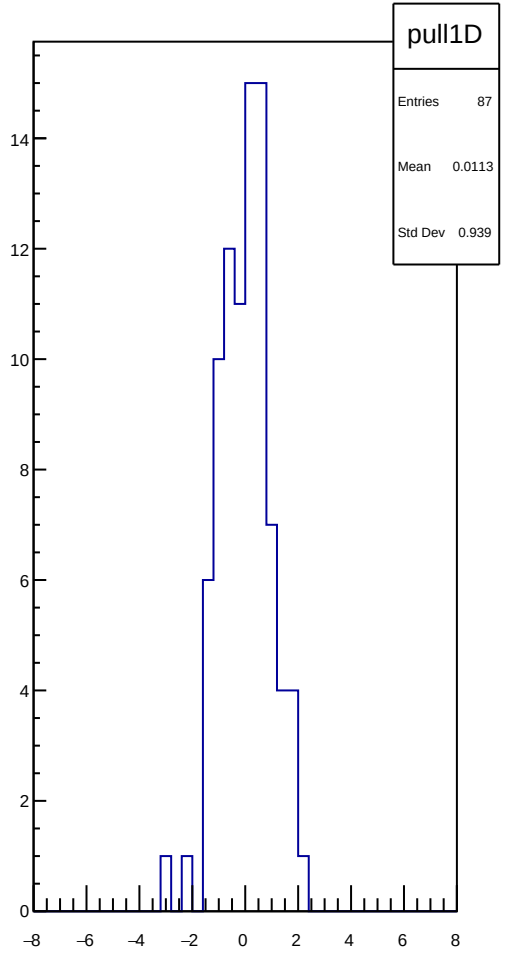

asym_atr2_rms vs run
χ^2 / ndf 8090 / 86
p0 1.069e+04 ± 8.319
14000
13000
12000
11000
10000
9000

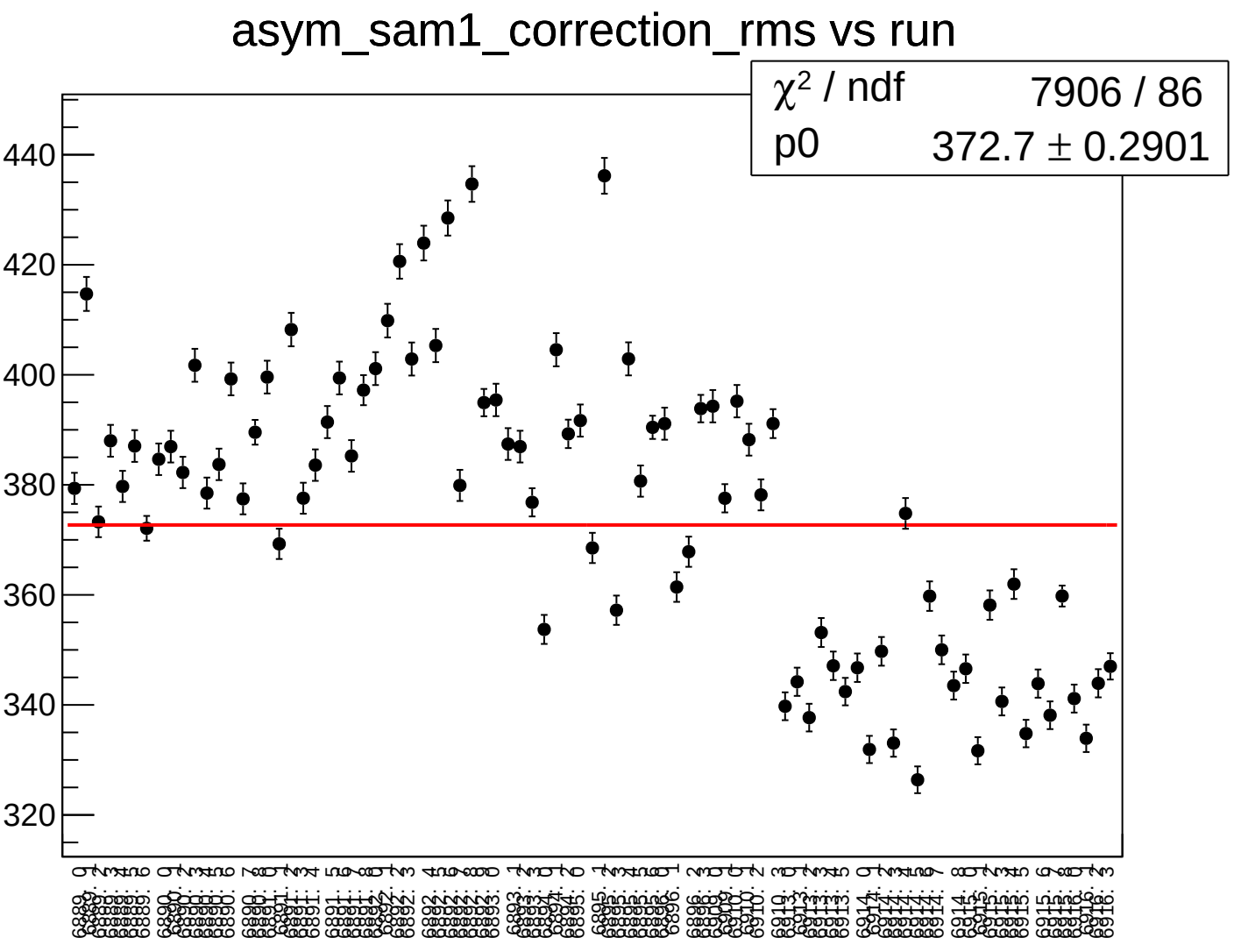

dit_asym_sam1_mean vs run
χ² / ndf 72.5 / 86
p0 119.1 ± 91.14
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean 7.48
Std Dev 40.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

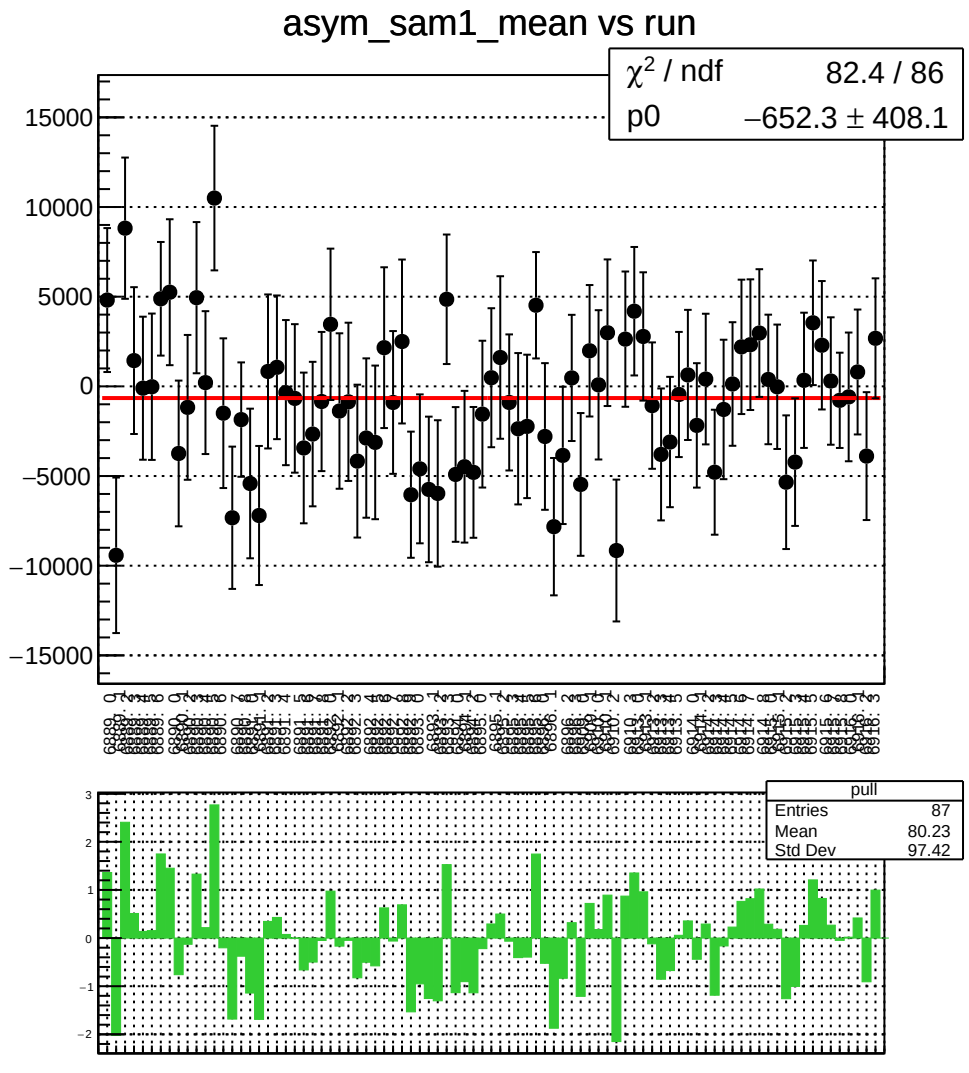

pull1D
Entries 87
Mean −0.01585
Std Dev 0.9127
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

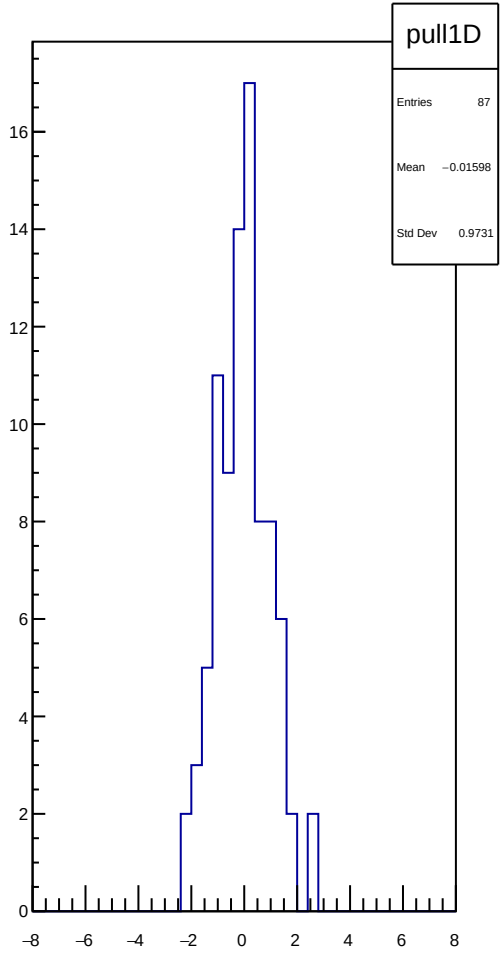

dit_asym_sam1_rms vs run
χ^2 / ndf 3215 / 86
p0 82.92 ± 0.06445
90
88
86
84
82
80
78
76
74
72

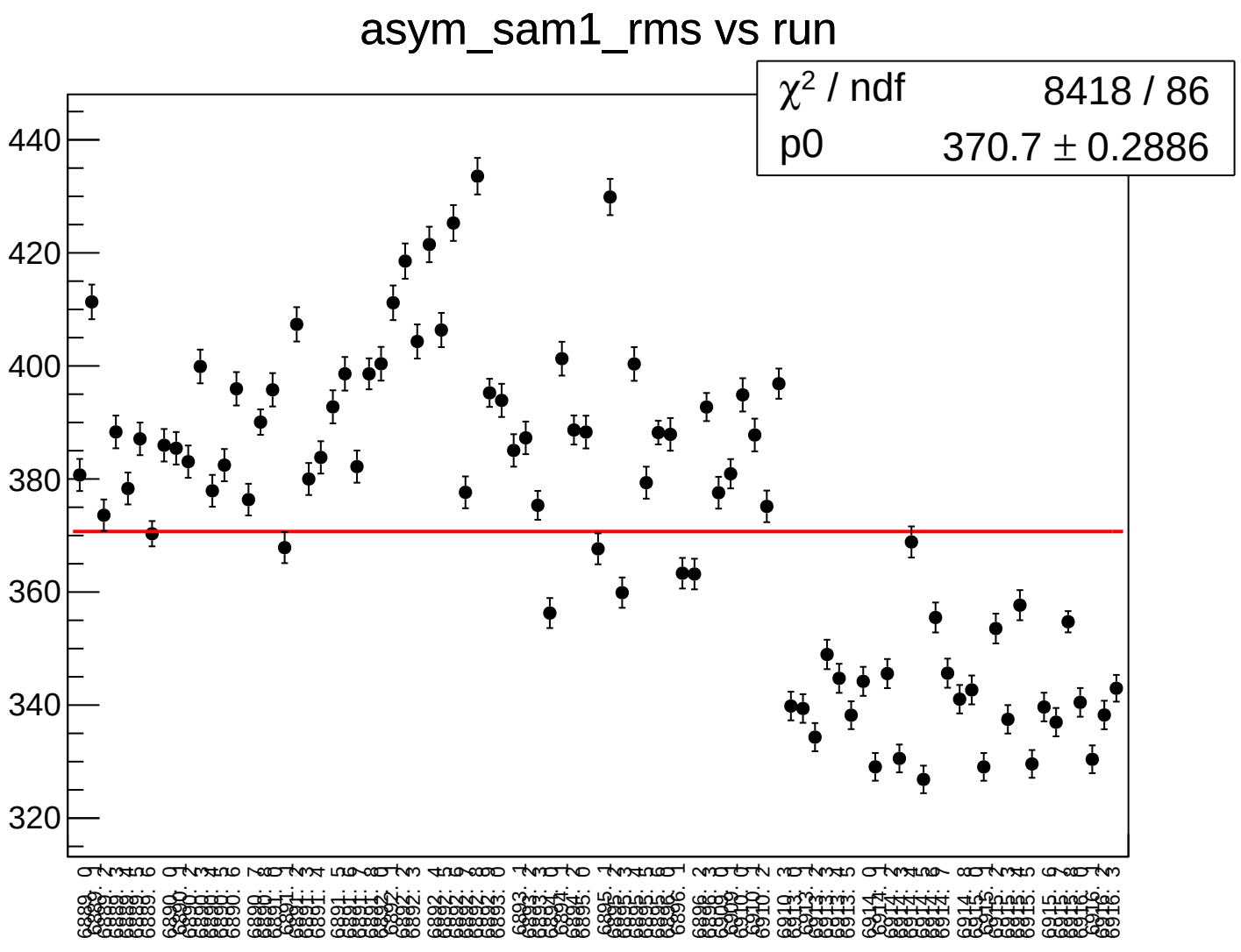

asym_sam1_correction_mean vs run
χ² / ndf 76.71 / 86
p0 779.9 ± 410.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 106.2
Std Dev 124.1
2
1
0
−1
−2
−3

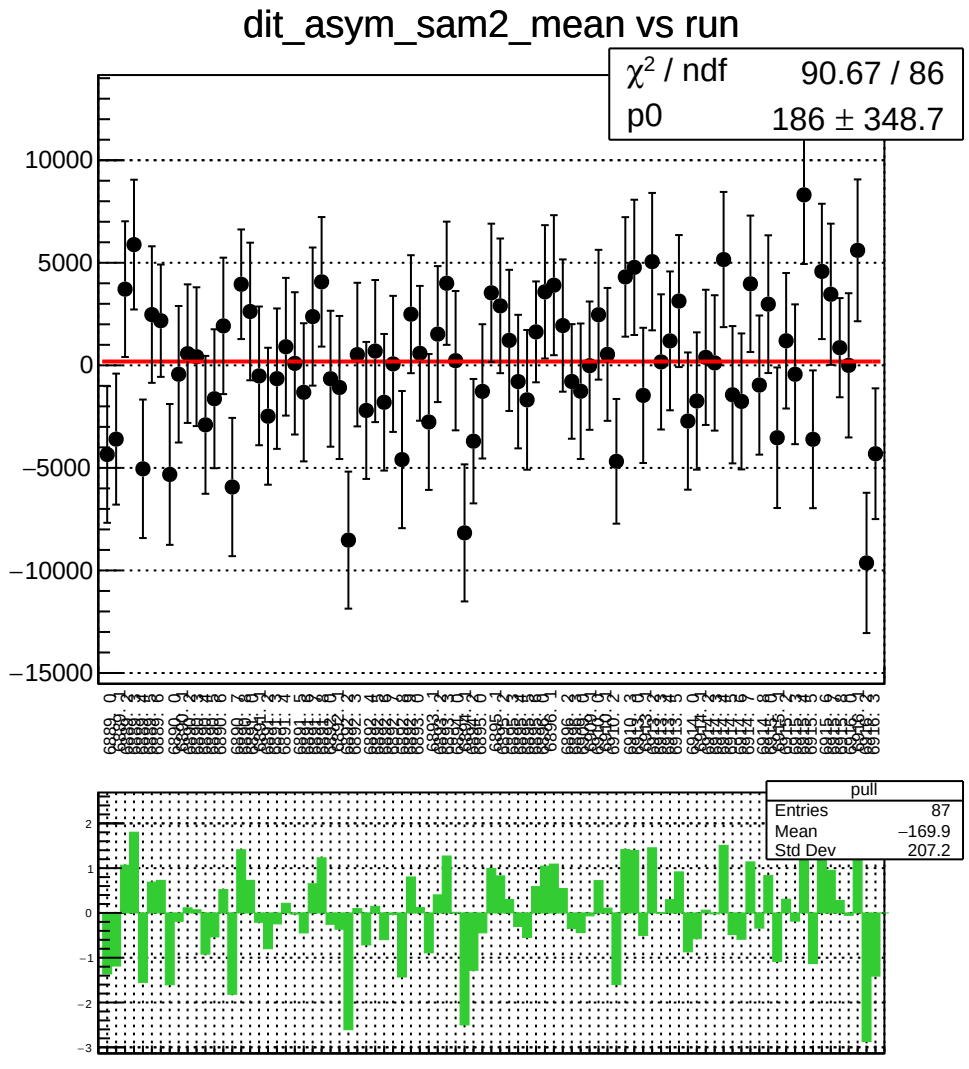

pull1D
Entries 87
Mean 0.0113
Std Dev 0.939
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

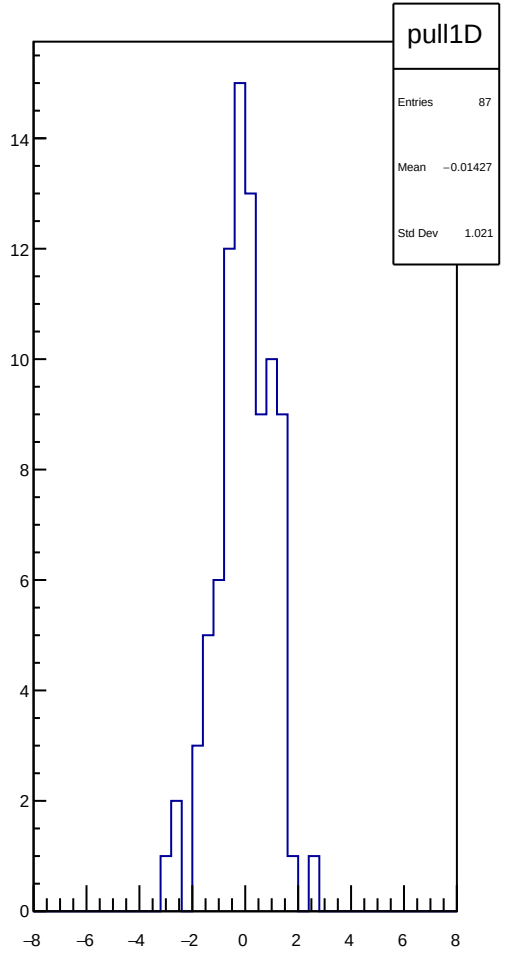

asym_sam1_correction_rms vs run
χ² / ndf 7906 / 86
p0 372.7 ± 0.2901
440
420
400
380
360
340
320

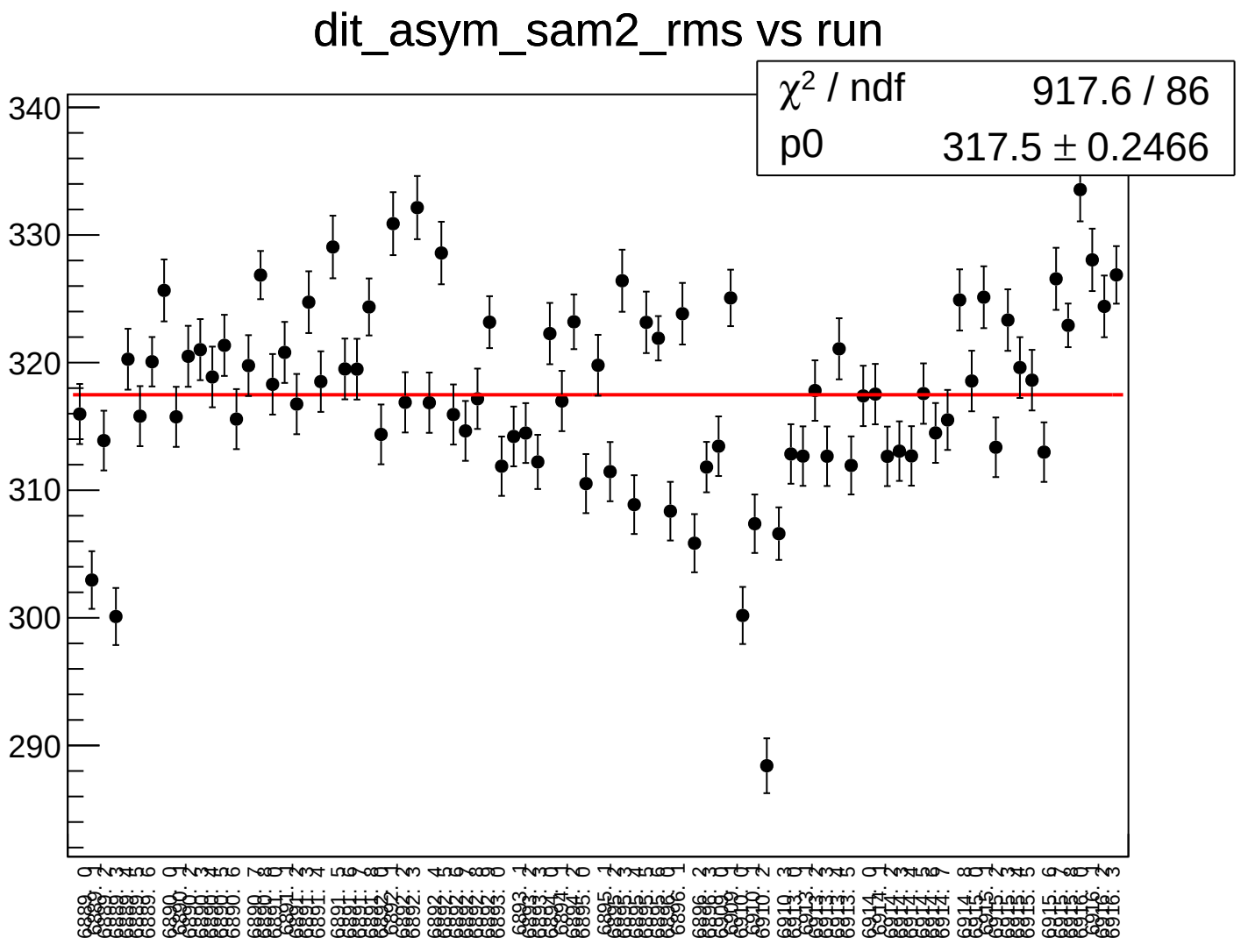

asym_sam1_mean vs run
χ² / ndf 82.4 / 86
p0 −652.3 ± 408.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean 80.23
Std Dev 97.42
3
2
1
0
−1
−2

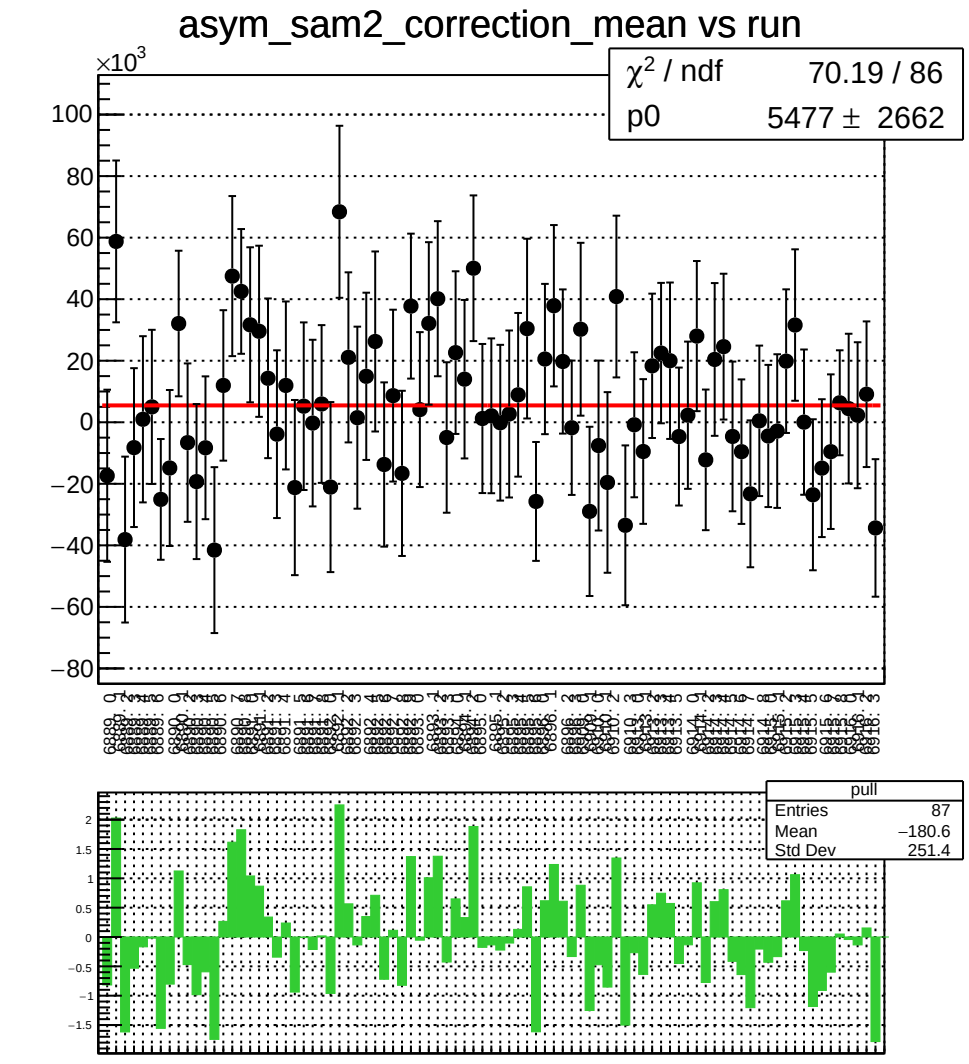

pull1D
Entries 87
Mean −0.01598
Std Dev 0.9731
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

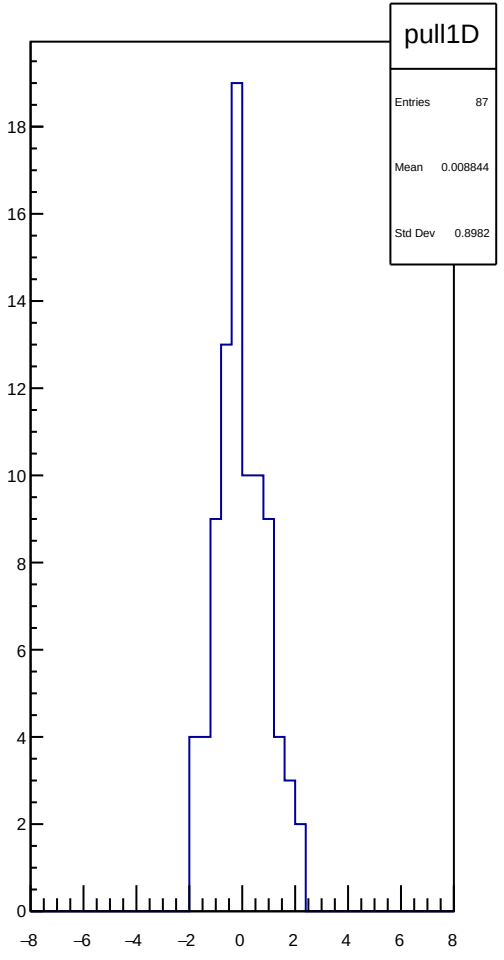

asym_sam1_rms vs run
χ^2 / ndf 8418 / 86
p0 370.7 ± 0.2886
440
420
400
380
360
340
320

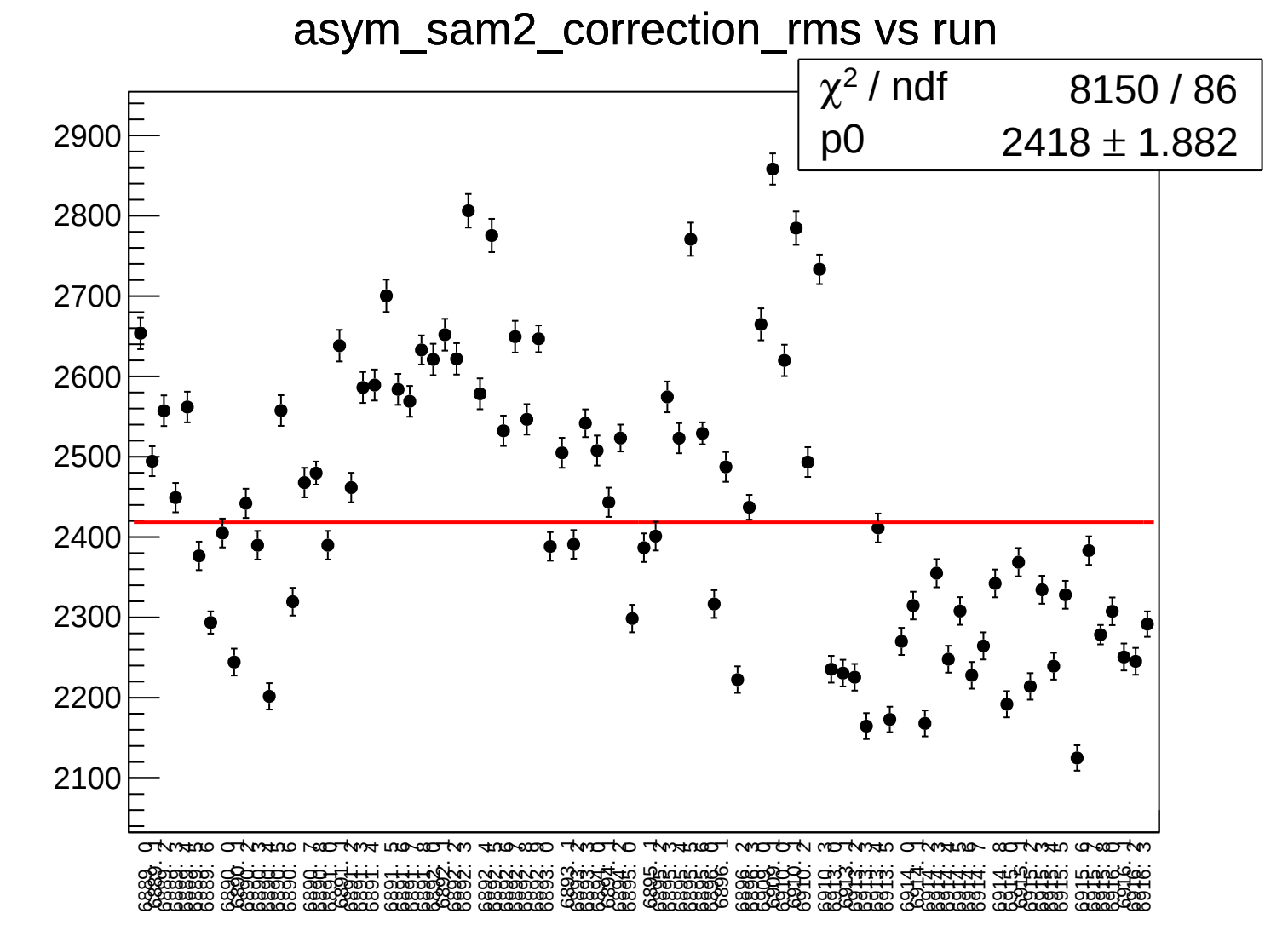

dit_asym_sam2_mean vs run
χ² / ndf 90.67 / 86
p0 186 ± 348.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −169.9
Std Dev 207.2
2
1
0
−1
−2
−3

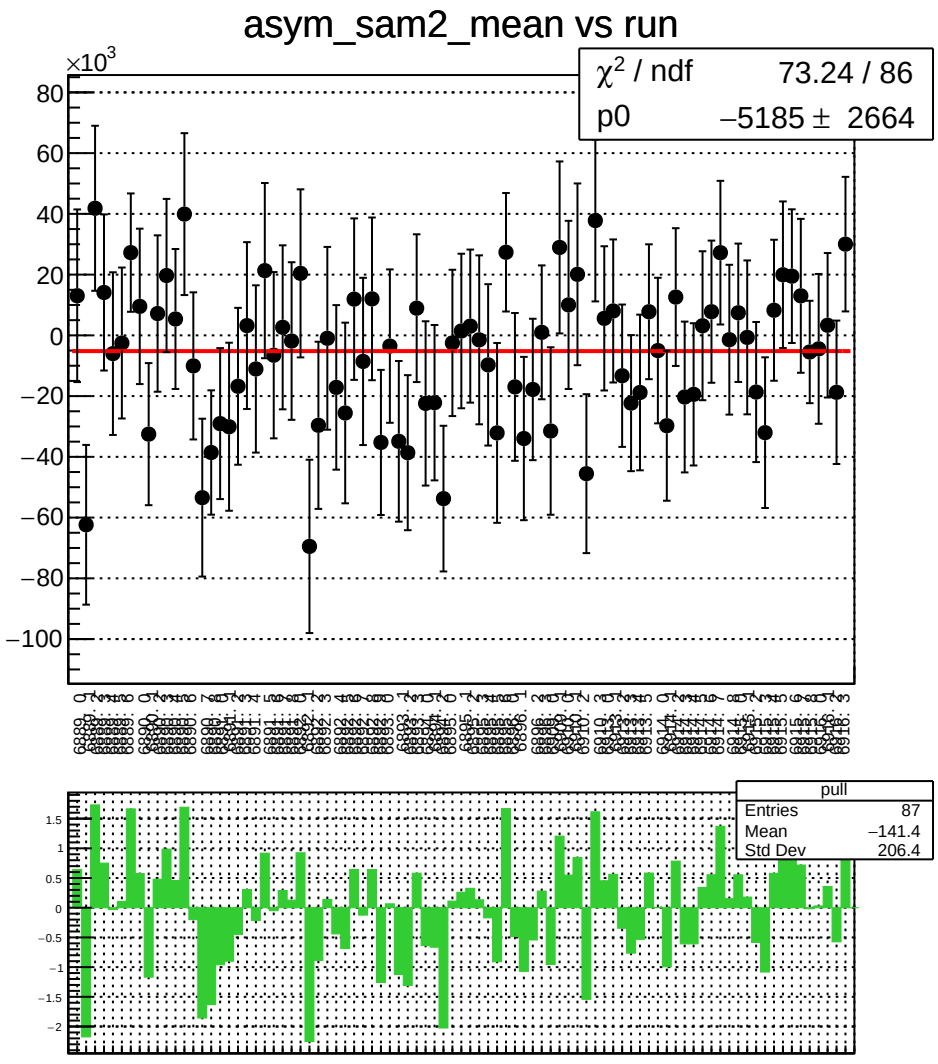

pull1D
Entries 87
Mean −0.01427
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

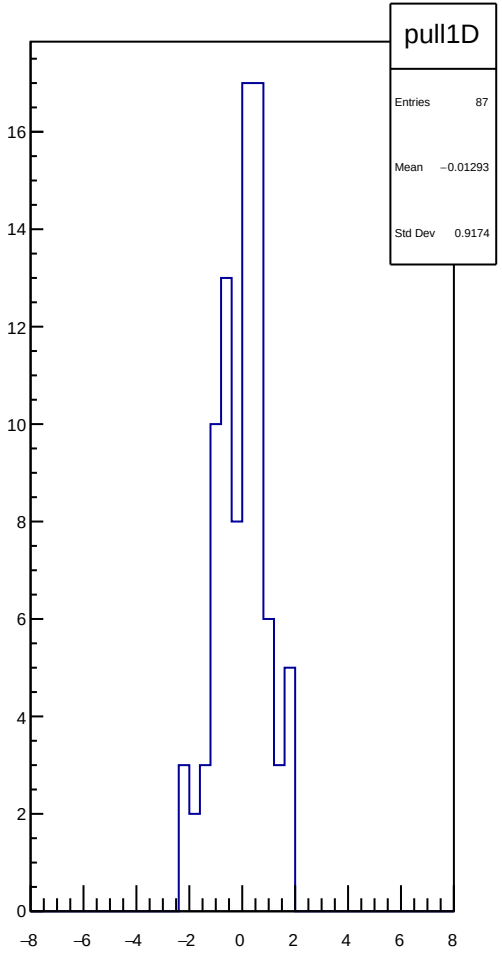

dit_asym_sam2_rms vs run
χ² / ndf 917.6 / 86
p0 317.5 ± 0.2466
340
330
320
310
300
290

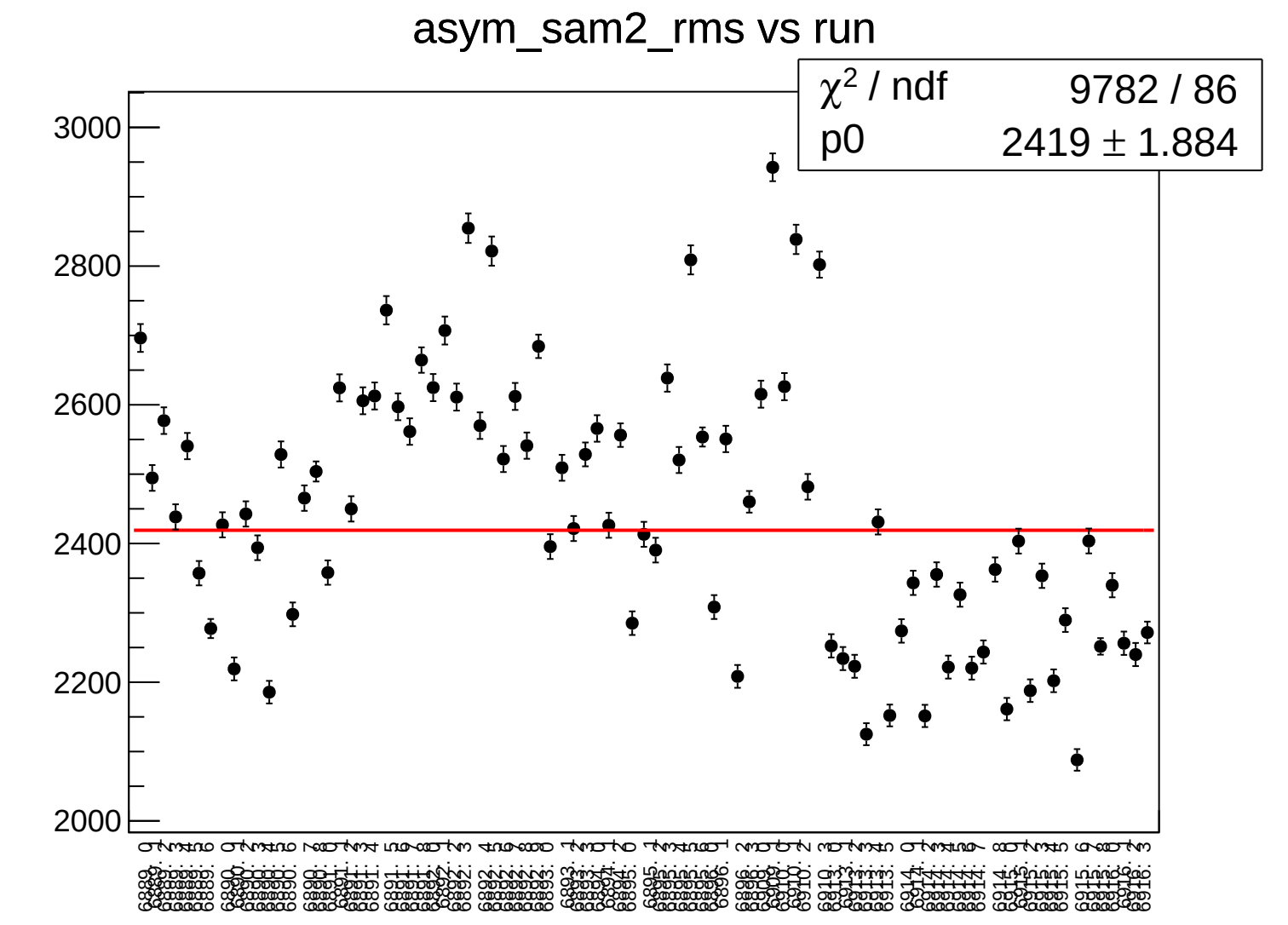

asym_sam2_correction_mean vs run
×10^3
χ^2 / ndf 70.19 / 86
p0 5477 ± 2662
pull
Entries 87
Mean −180.6
Std Dev 251.4

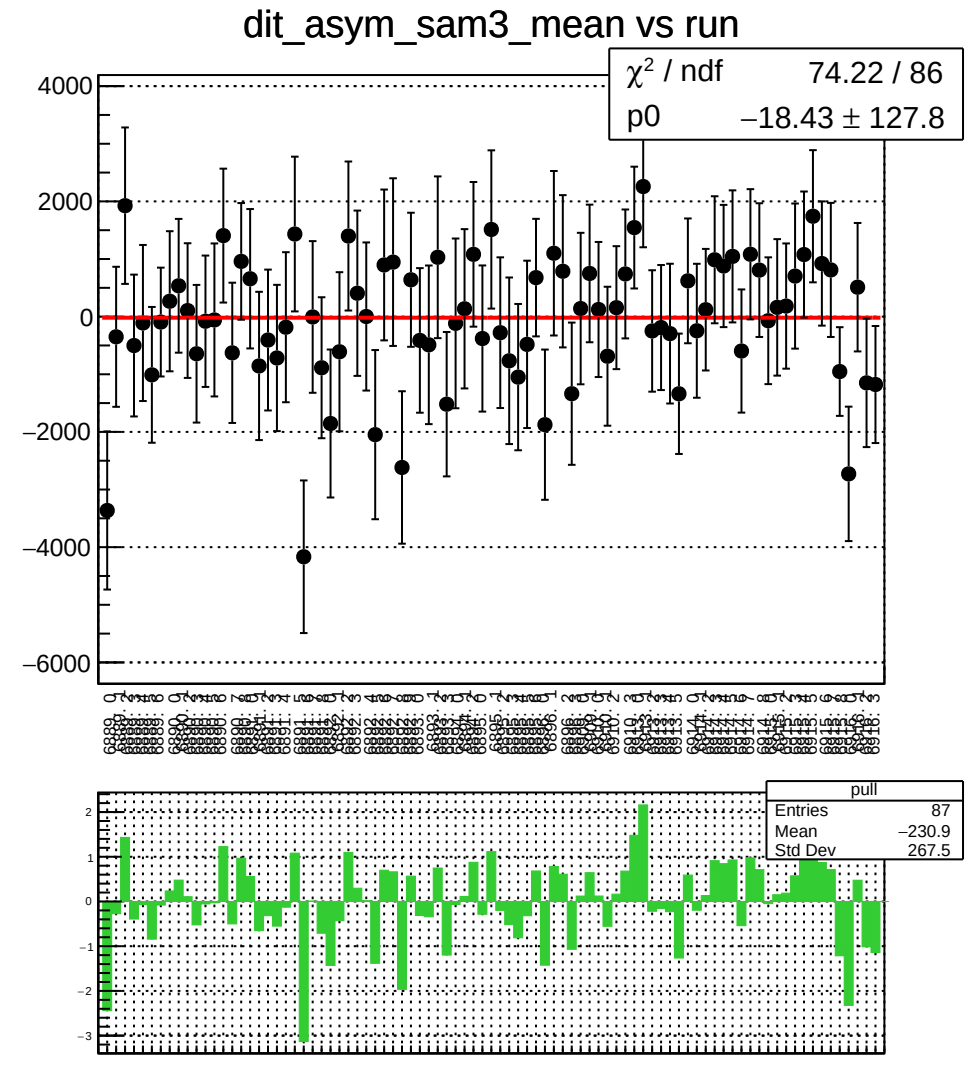

pull1D
Entries 87
Mean 0.008844
Std Dev 0.8982

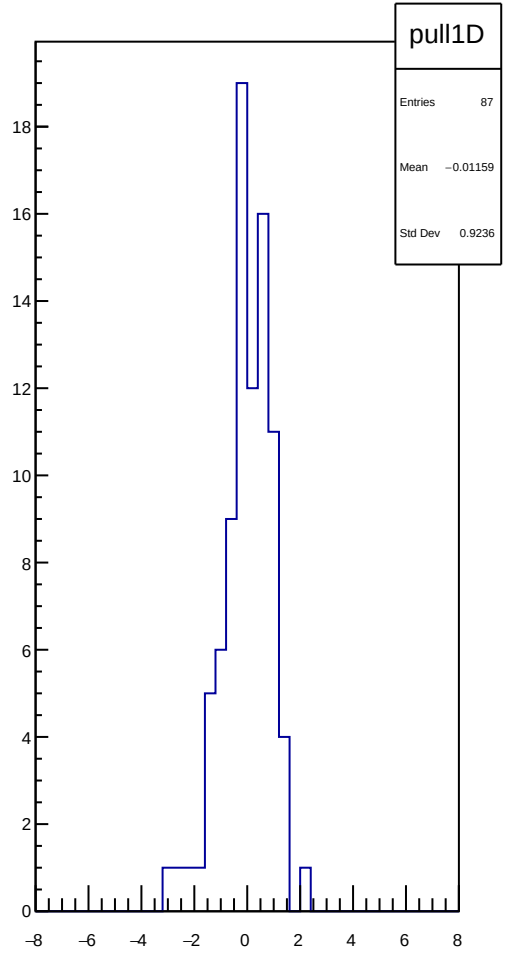

asym_sam2_correction_rms vs run
χ^2 / ndf 8150 / 86
p0 2418 ± 1.882
2900
2800
2700
2600
2500
2400
2300
2200
2100

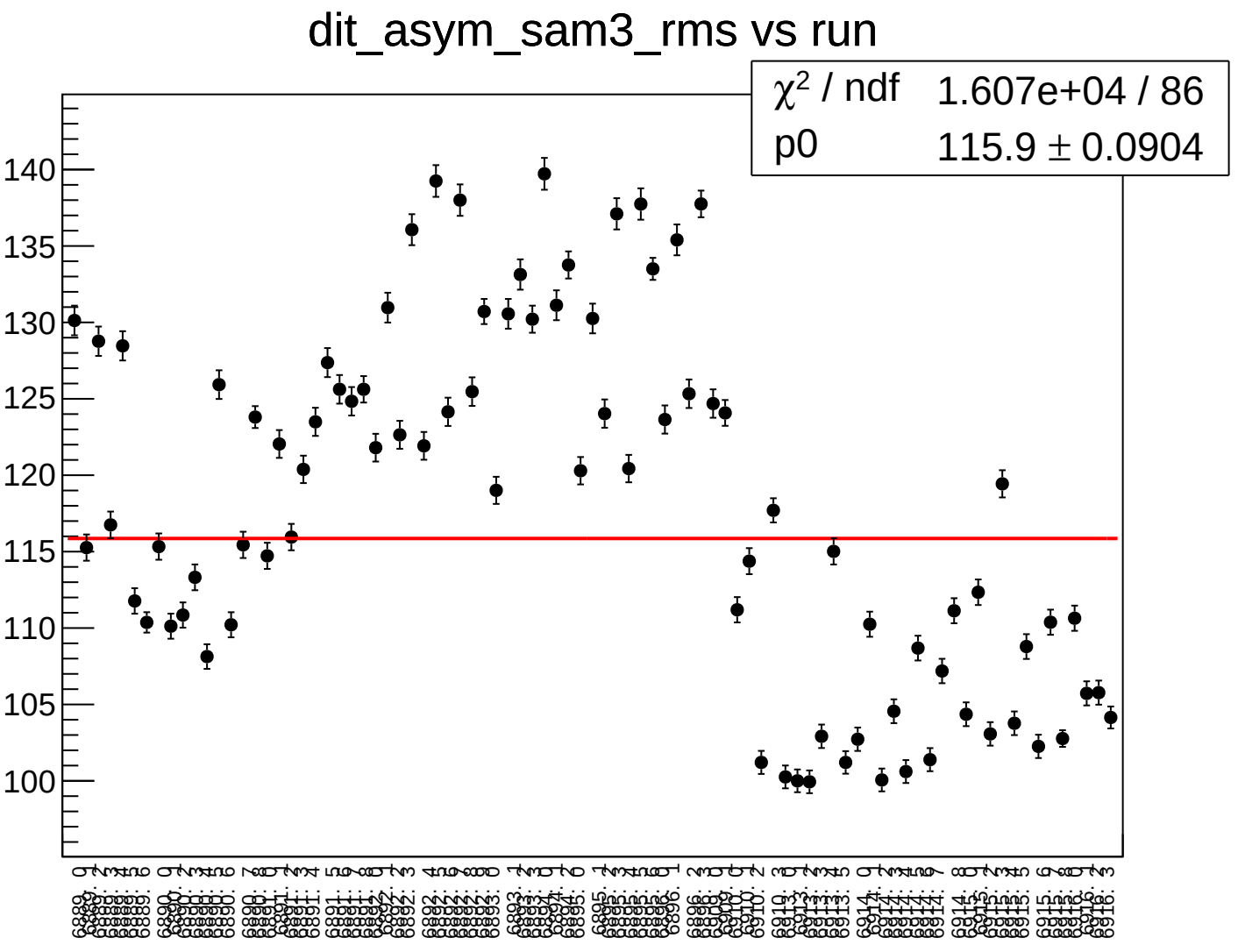

asym_sam2_mean vs run
×10^3
χ^2 / ndf 73.24 / 86
p0 −5185 ± 2664
pull
Entries 87
Mean −141.4
Std Dev 206.4

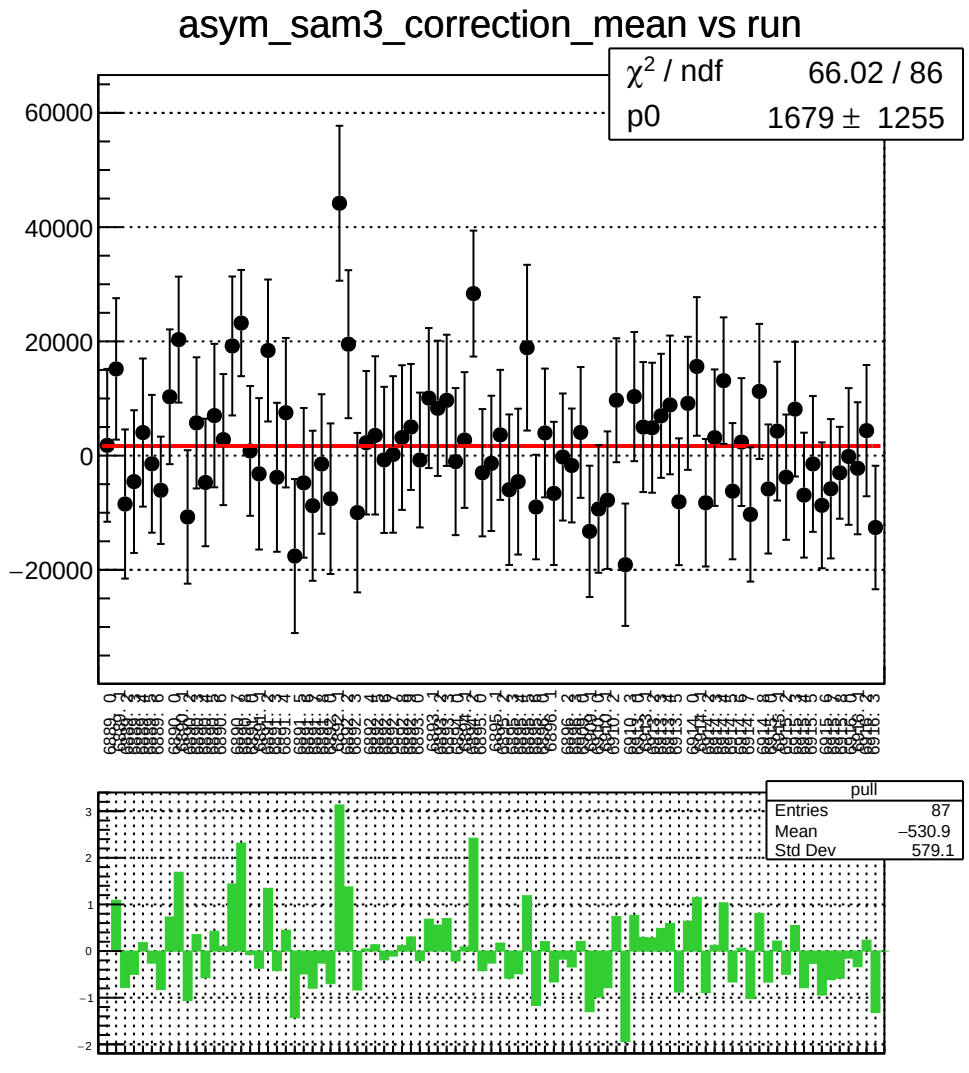

pull1D
Entries 87
Mean −0.01293
Std Dev 0.9174

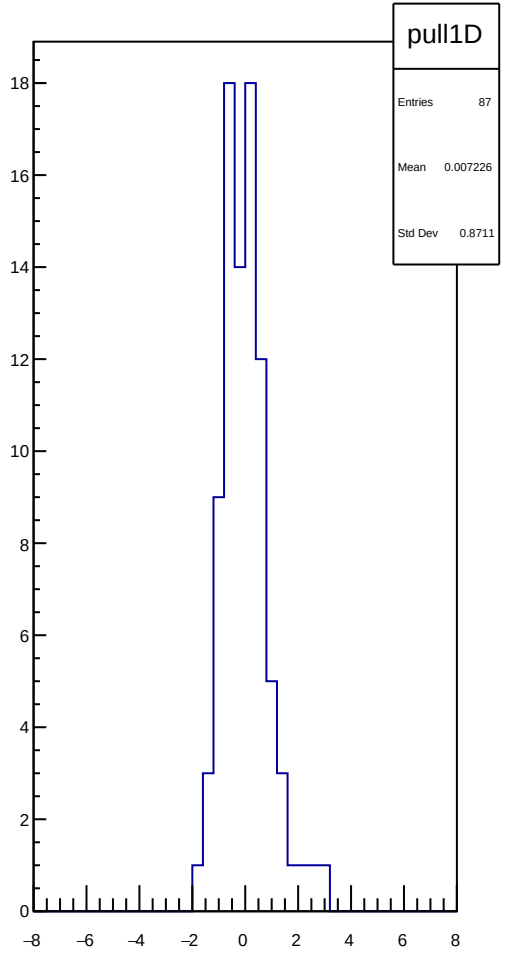

asym_sam2_rms vs run
χ^2 / ndf 9782 / 86
p0 2419 ± 1.884
3000
2800
2600
2400
2200
2000


dit_asym_sam3_mean vs run
χ² / ndf 74.22 / 86
p0 −18.43 ± 127.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean −230.9
Std Dev 267.5
2
1
0
−1
−2
−3

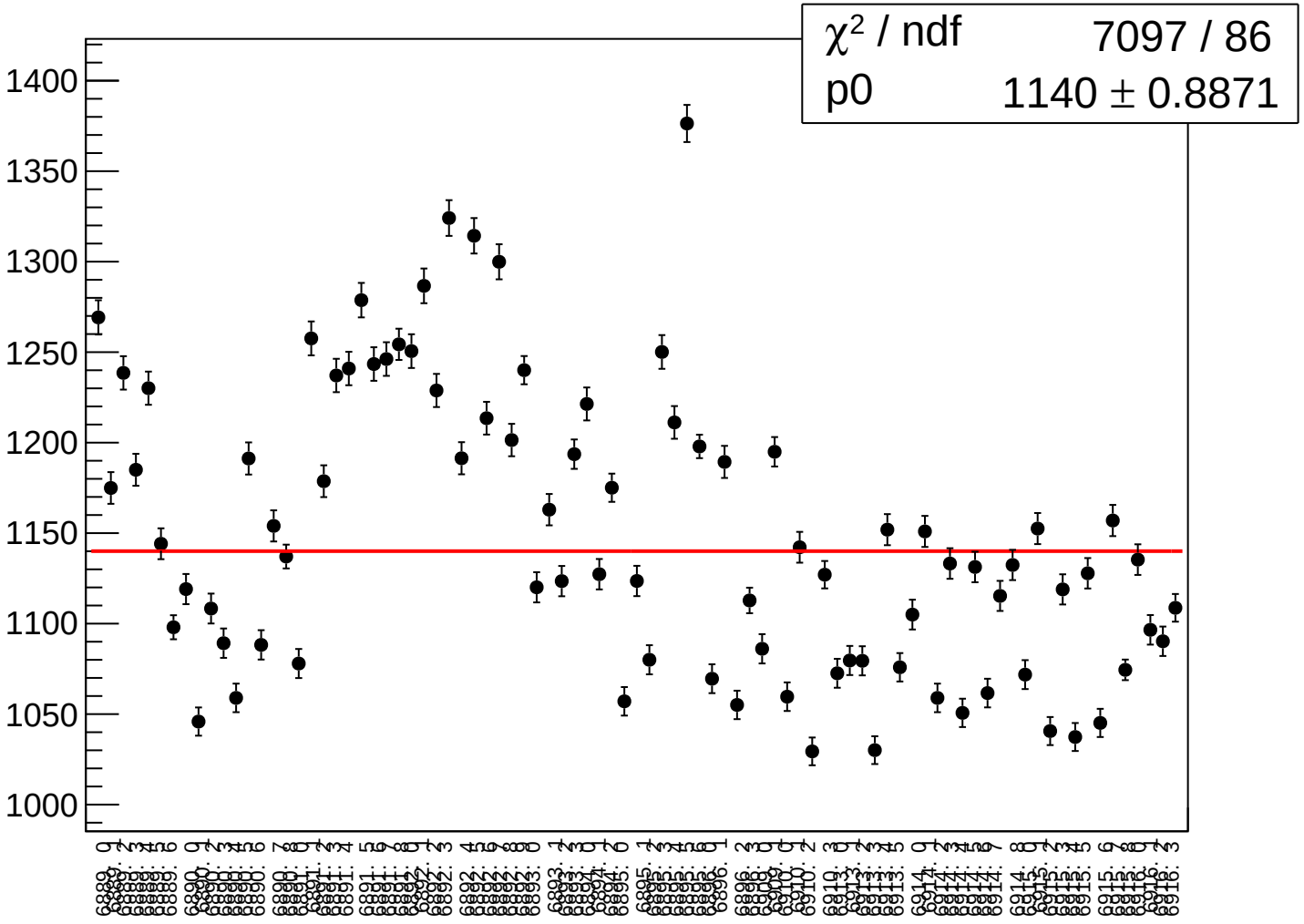

pull1D
Entries 87
Mean −0.01159
Std Dev 0.9236
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

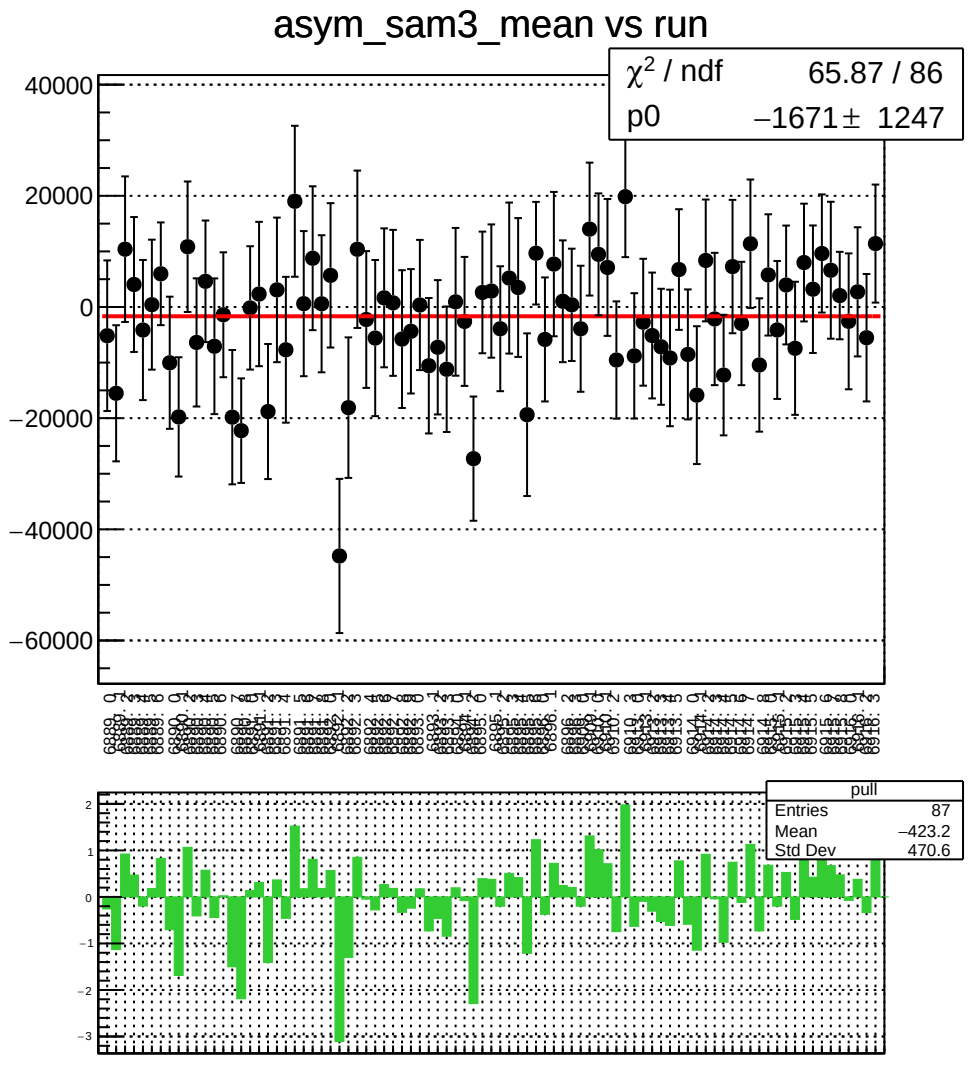

dit_asym_sam3_rms vs run
χ² / ndf 1.607e+04 / 86
p0 115.9 ± 0.0904
140
135
130
125
120
115
110
105
100

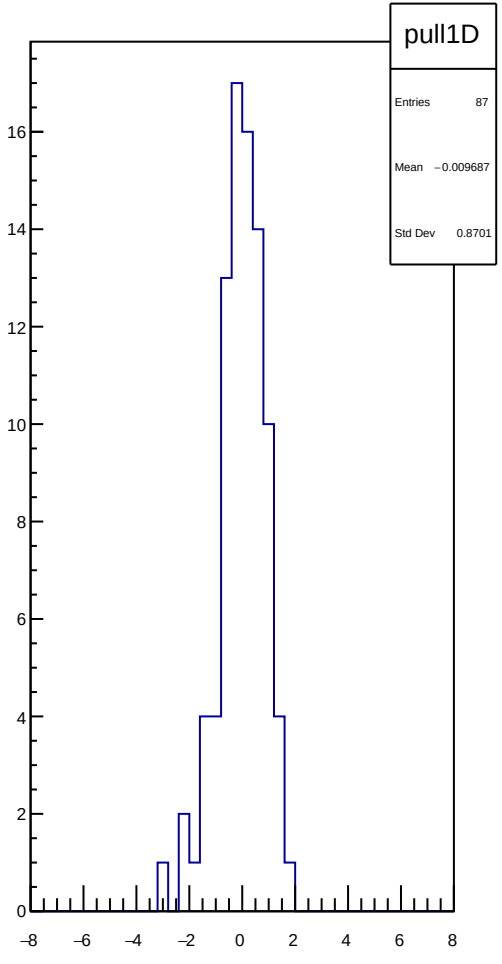

asym_sam3_correction_mean vs run
χ² / ndf 66.02 / 86
p0 1679 ± 1255
60000
40000
20000
0
−20000
pull
Entries 87
Mean −530.9
Std Dev 579.1
3
2
1
0
−1
−2

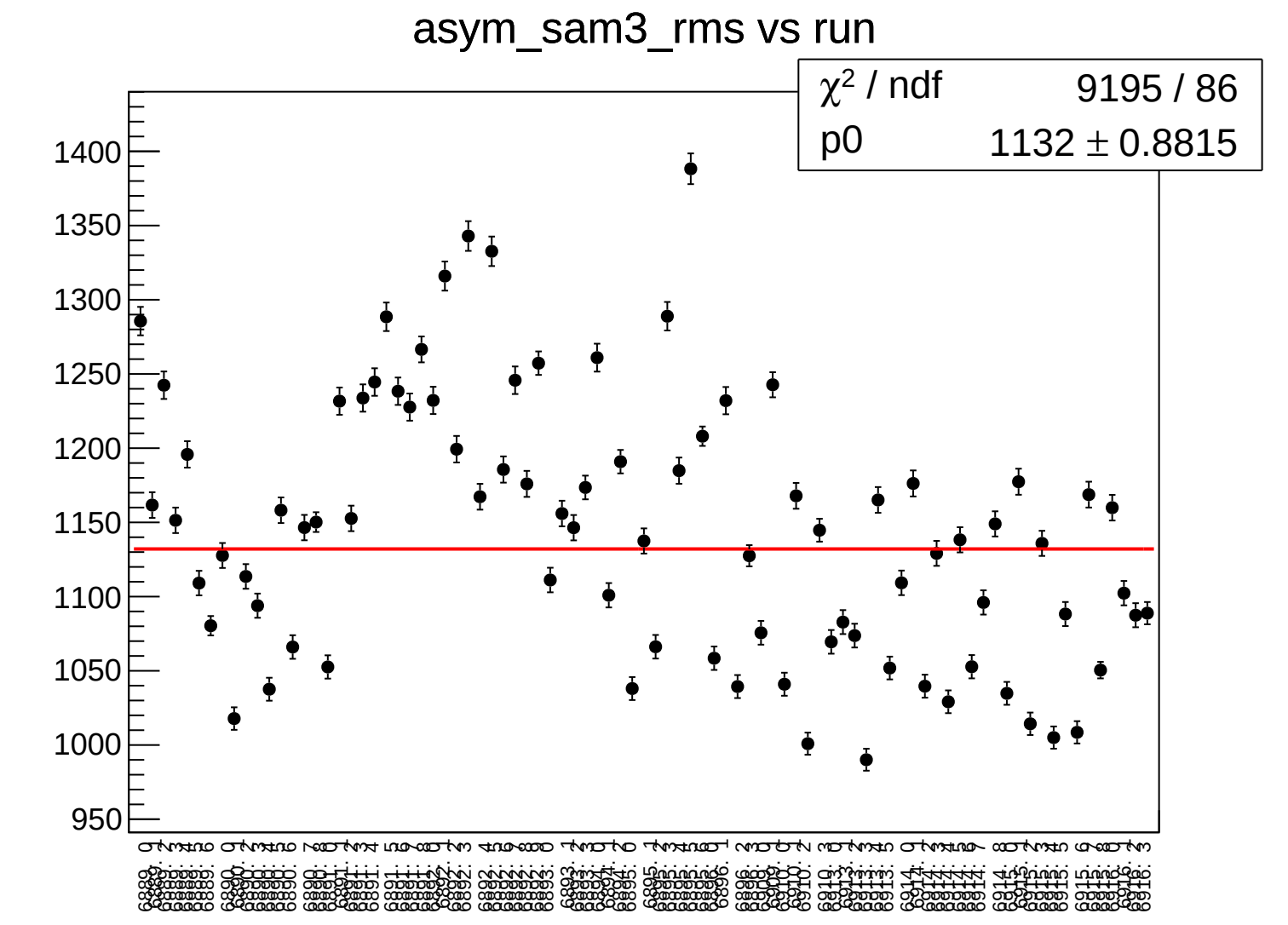

pull1D
Entries 87
Mean 0.007226
Std Dev 0.8711
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

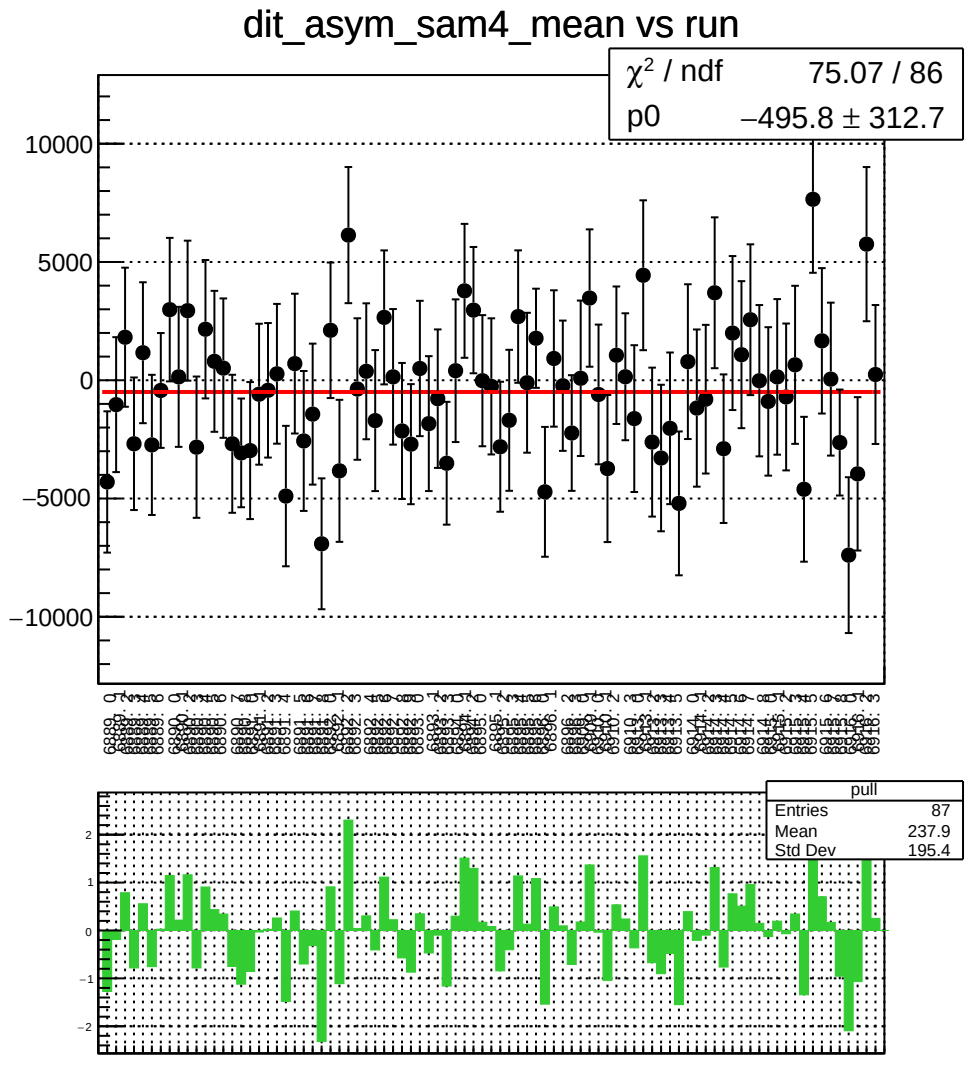
asym_sam3_correction_rms vs run

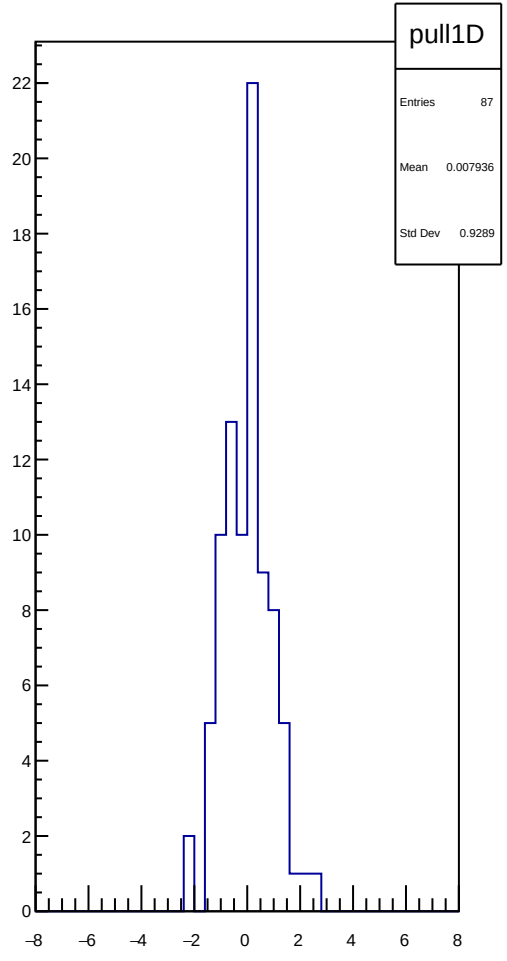


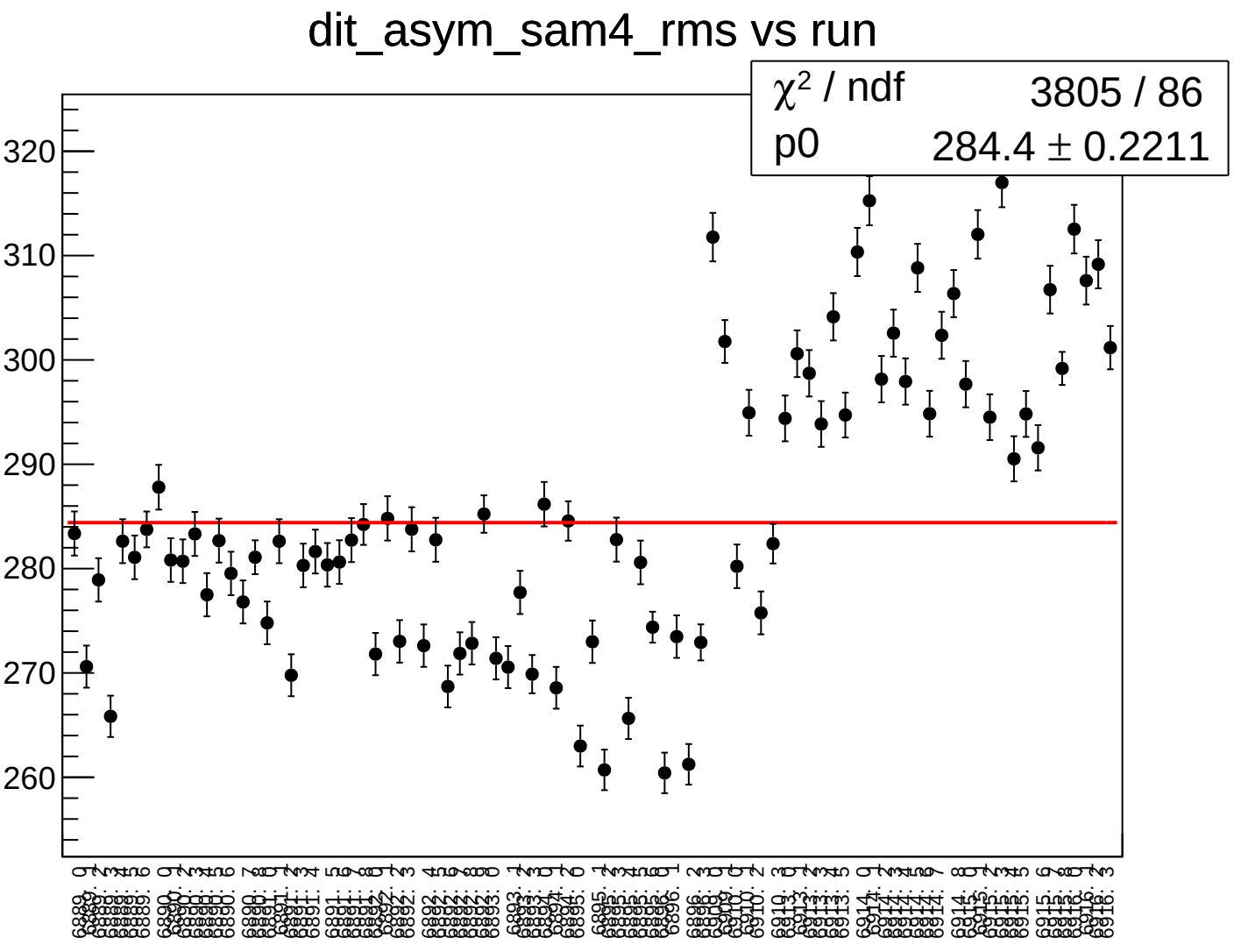

asym_sam3_mean vs run
χ² / ndf 65.87 / 86
p0 −1671 ± 1247
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −423.2
Std Dev 470.6
2
1
0
−1
−2
−3

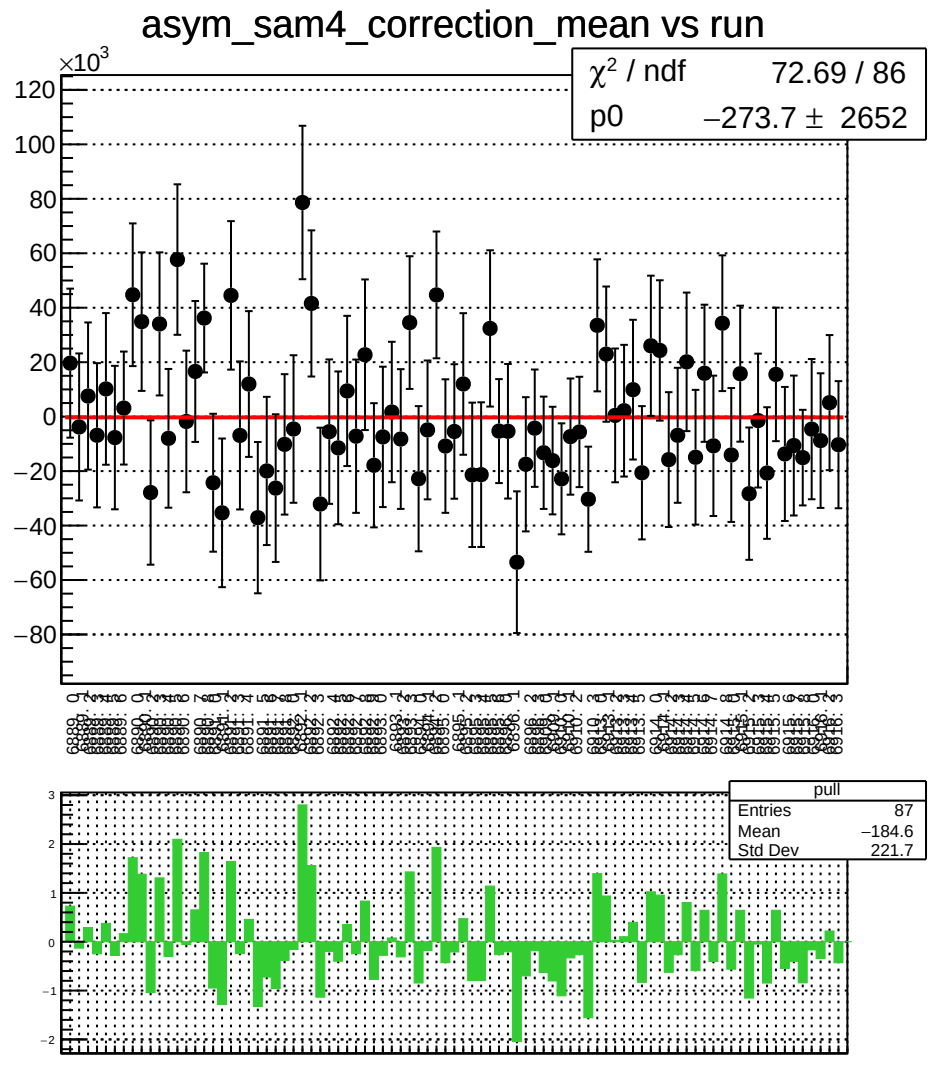

pull1D
Entries 87
Mean −0.009687
Std Dev 0.8701
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

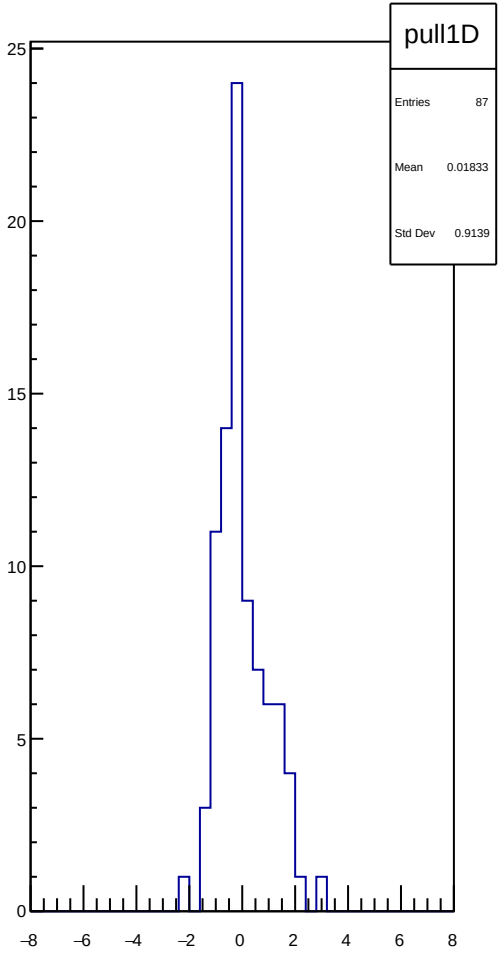

asym_sam3_rms vs run
χ^2 / ndf 9195 / 86
p0 1132 ± 0.8815
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

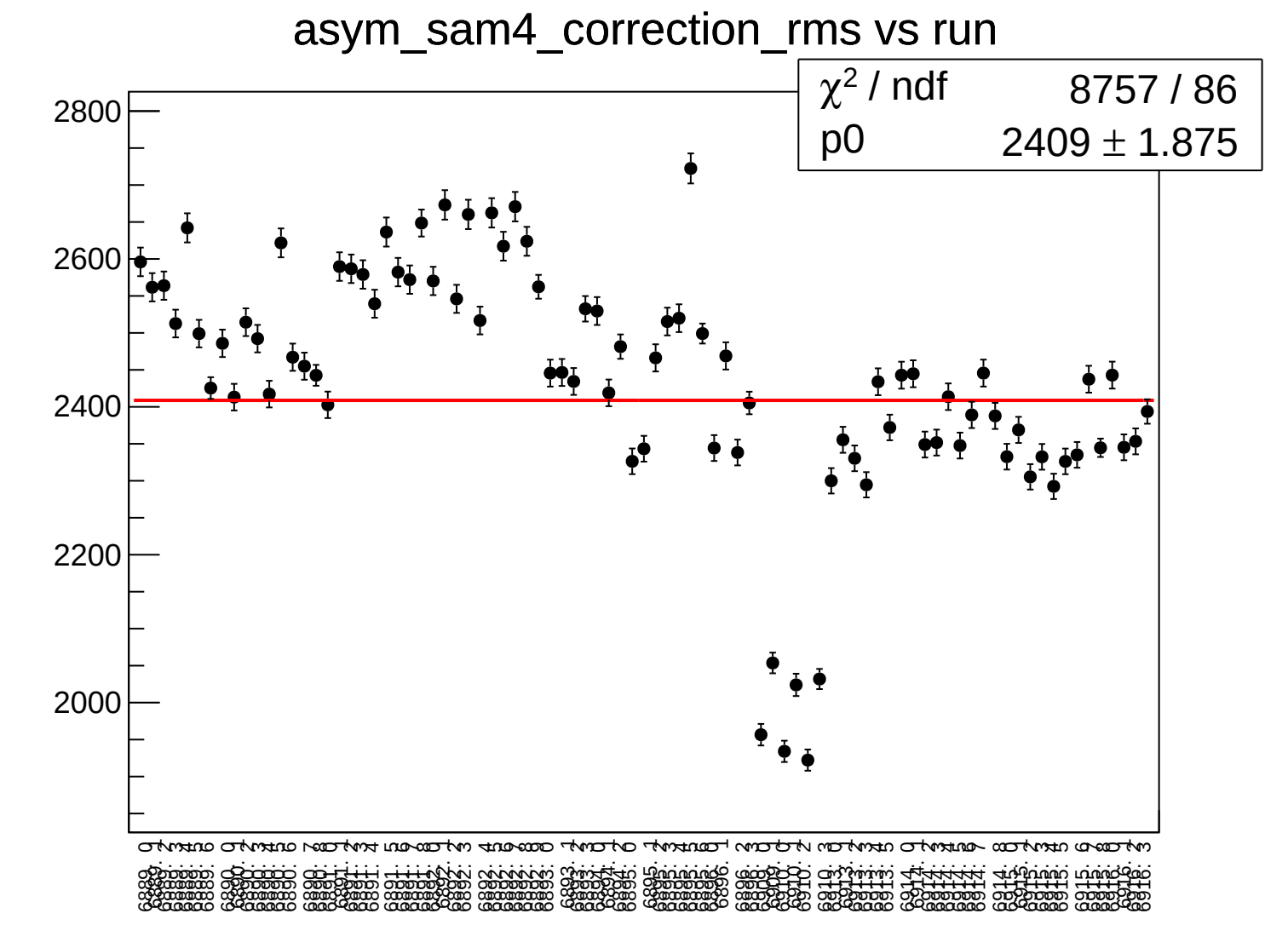

dit_asym_sam4_mean vs run
χ² / ndf 75.07 / 86
p0 −495.8 ± 312.7
10000
5000
0
−5000
−10000
pull
Entries 87
Mean 237.9
Std Dev 195.4
2
1
0
−1
−2

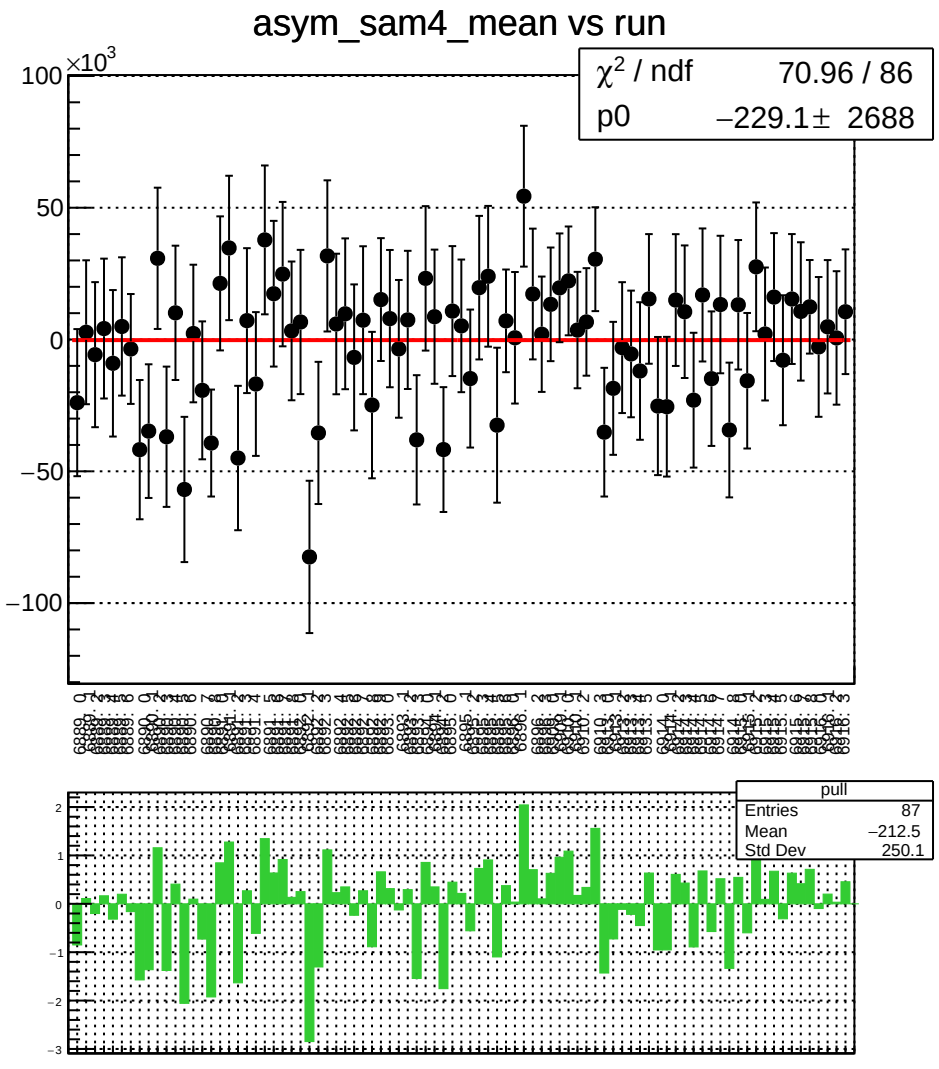

pull1D
Entries 87
Mean 0.007936
Std Dev 0.9289
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

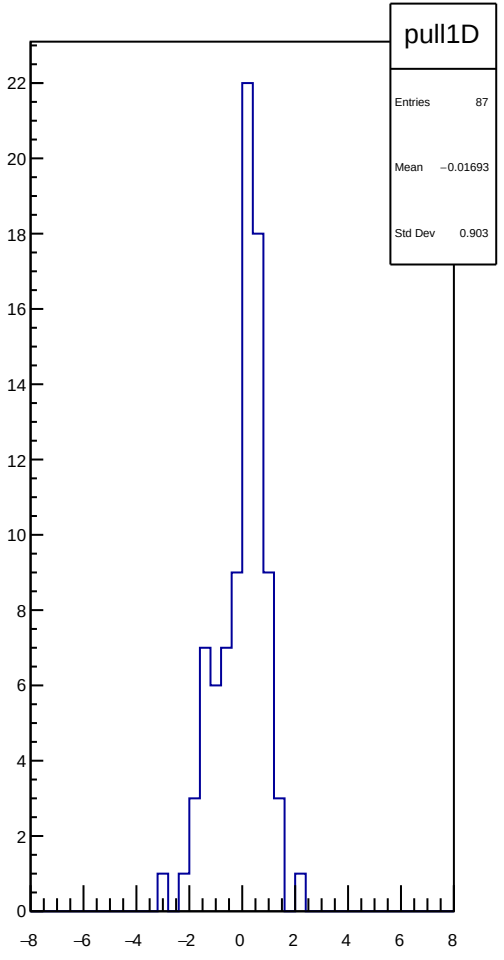

dit_asym_sam4_rms vs run
χ² / ndf 3805 / 86
p0 284.4 ± 0.2211
320
310
300
290
280
270
260

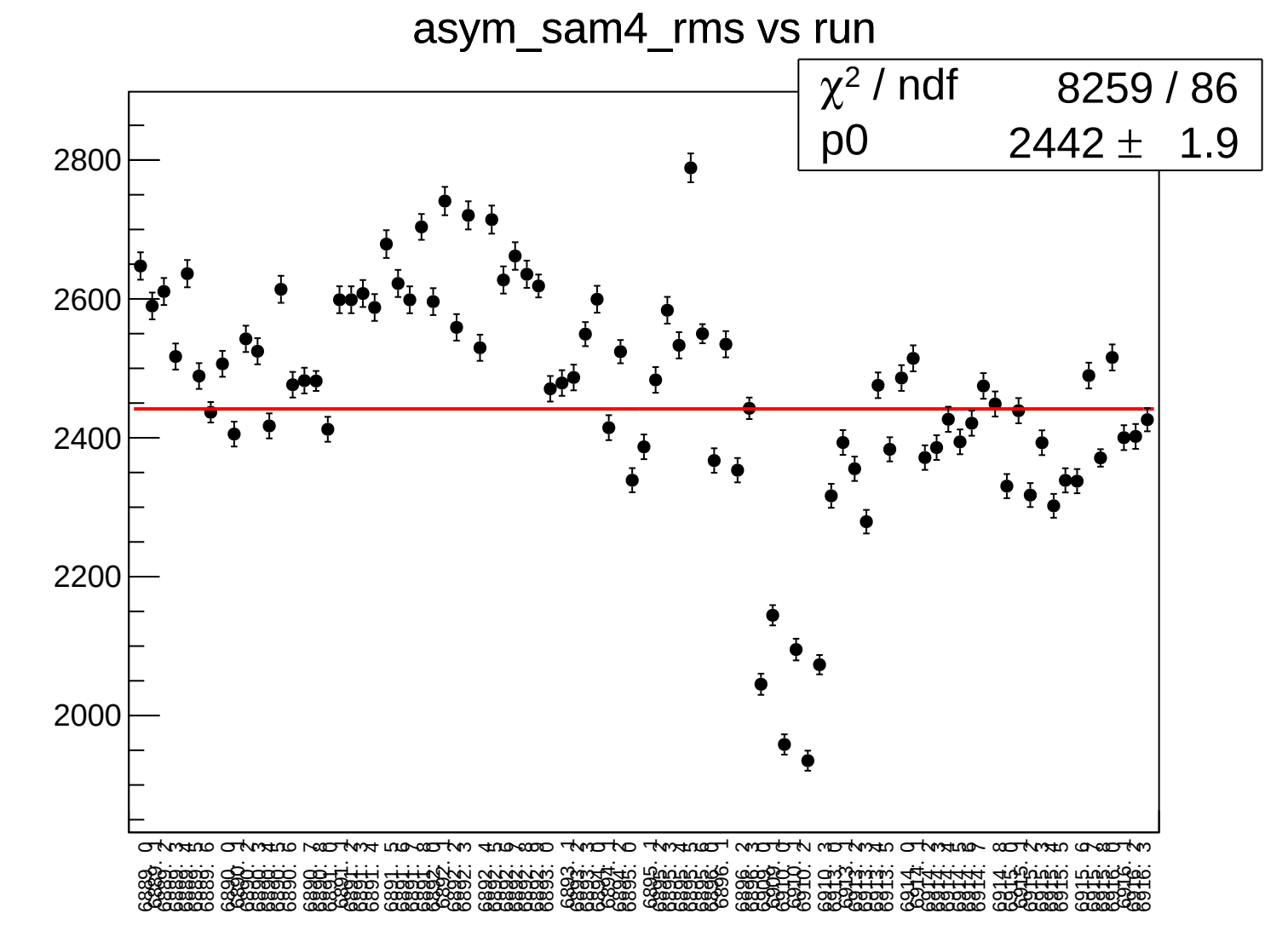

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 72.69 / 86
p0 −273.7 ± 2652
pull
Entries 87
Mean −184.6
Std Dev 221.7

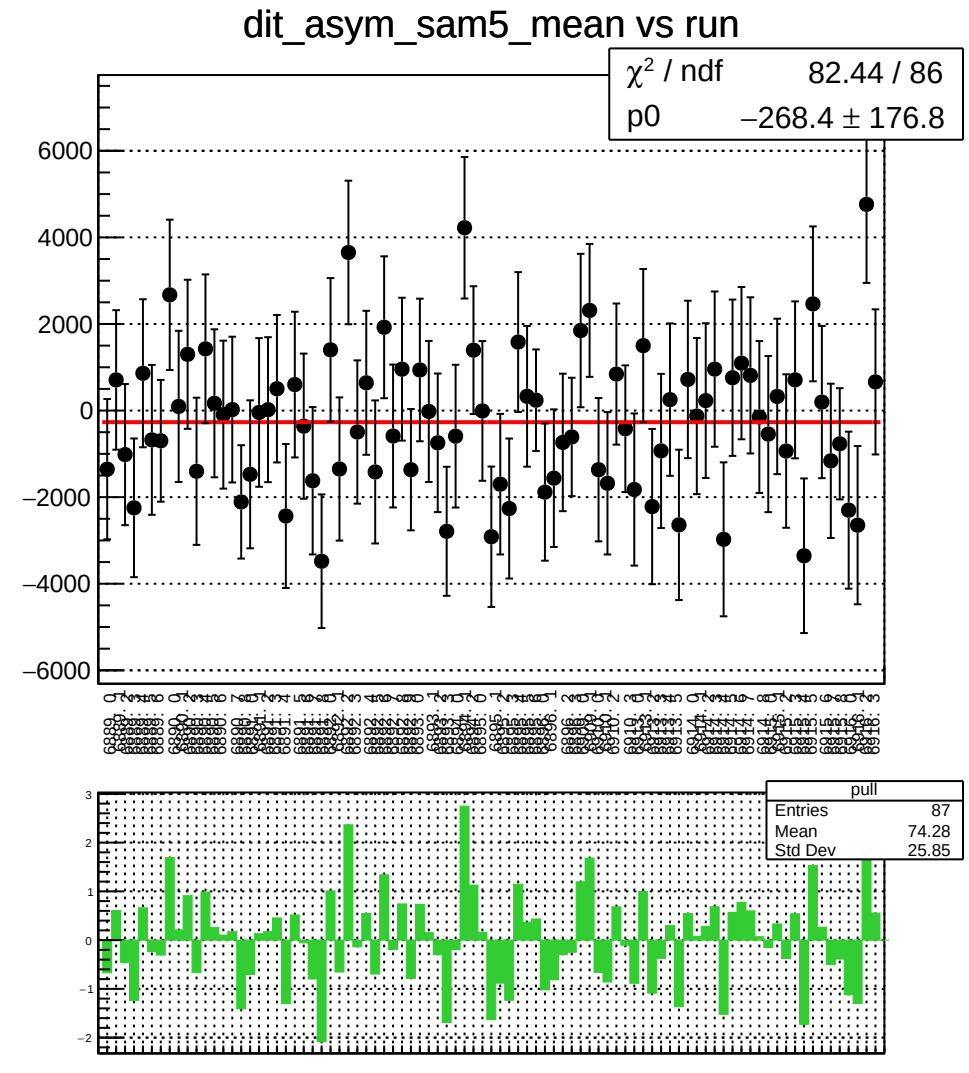

pull1D
Entries 87
Mean 0.01833
Std Dev 0.9139

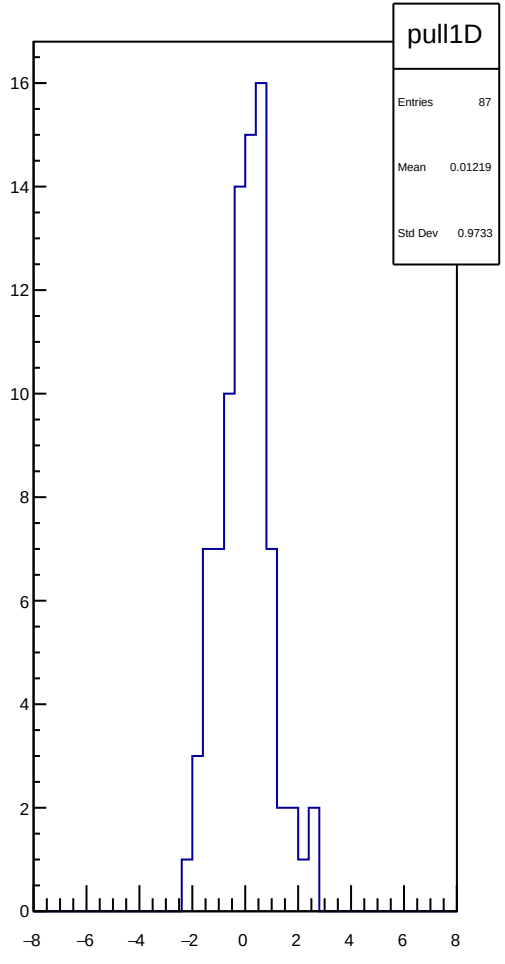

asym_sam4_correction_rms vs run
χ² / ndf 8757 / 86
p0 2409 ± 1.875
2800
2600
2400
2200
2000

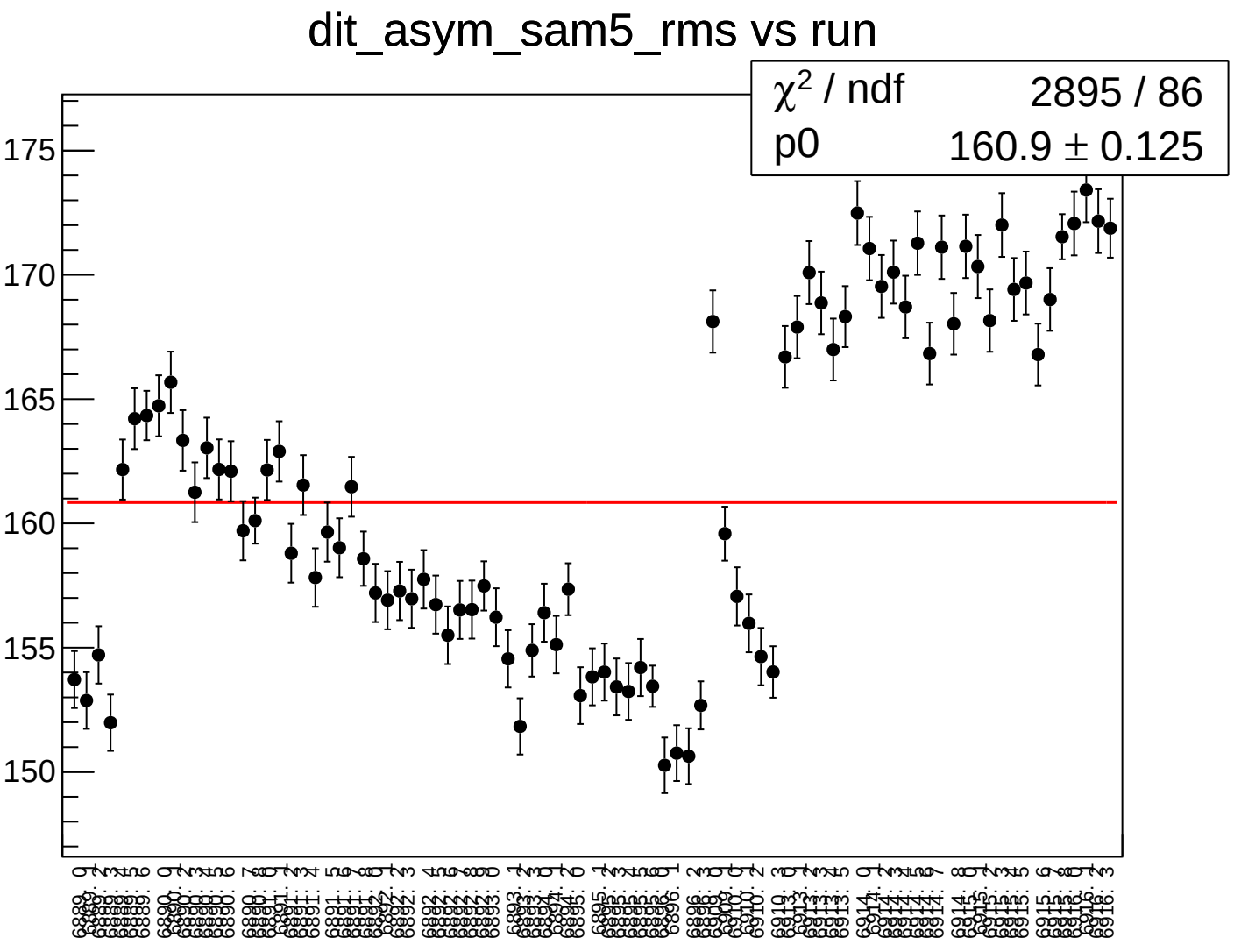

asym_sam4_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 70.96 / 86
p0 −229.1± 2688
pull
Entries 87
Mean −212.5
Std Dev 250.1
2
1
0
−1
−2
−3

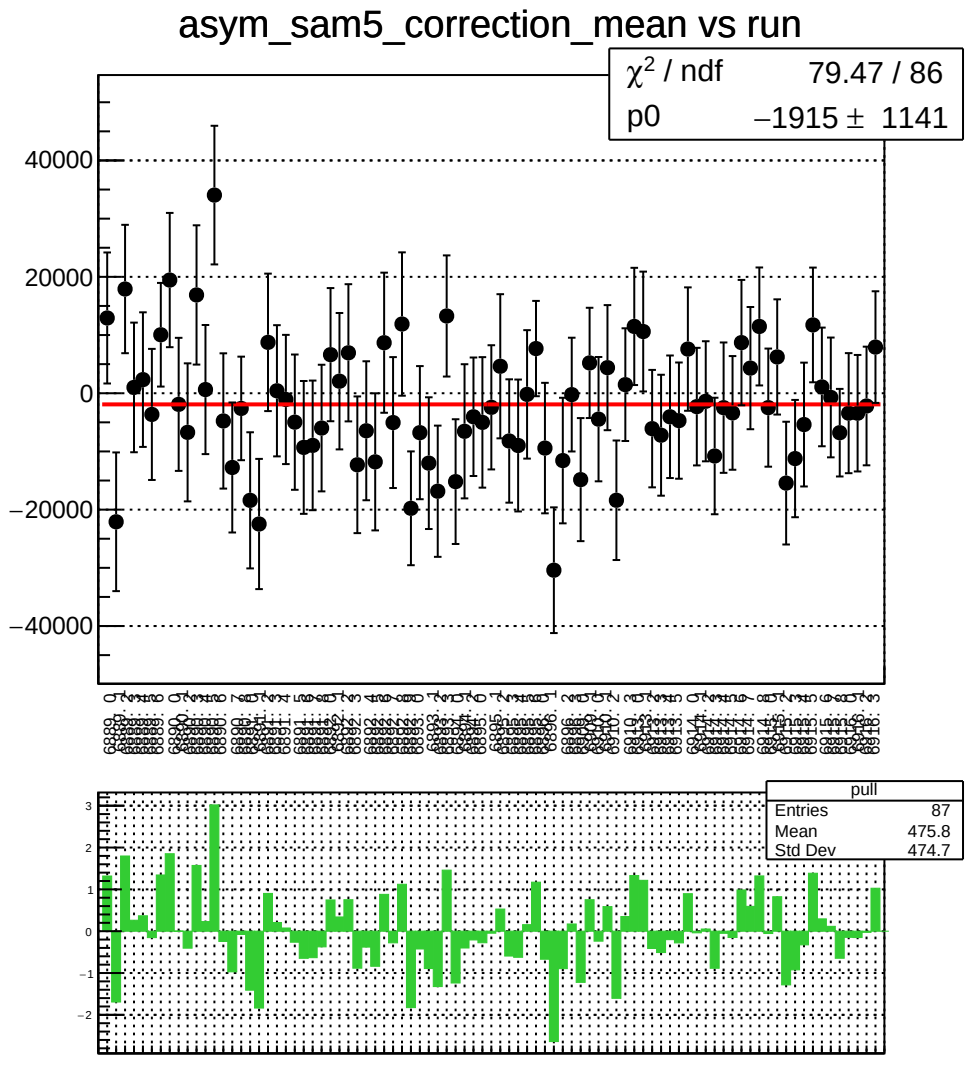

pull1D
Entries 87
Mean −0.01693
Std Dev 0.903
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

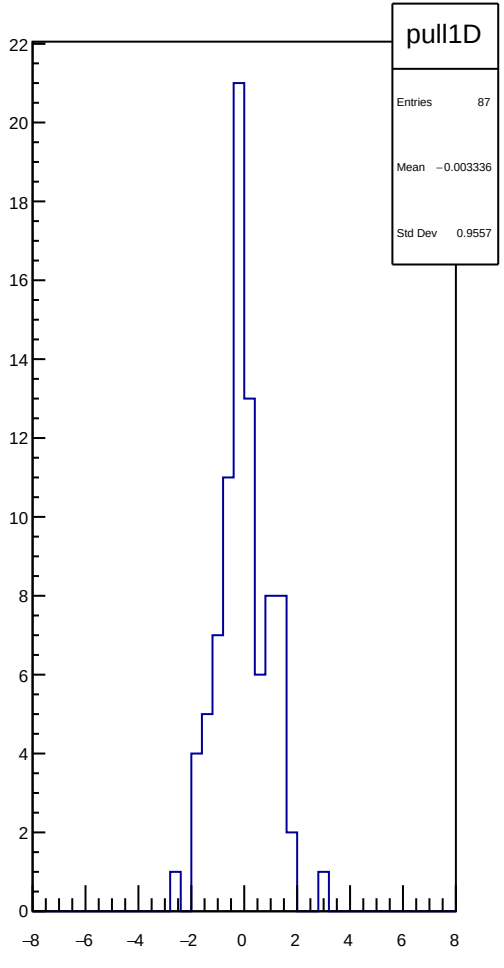

asym_sam4_rms vs run
χ² / ndf 8259 / 86
p0 2442 ± 1.9
2800
2600
2400
2200
2000

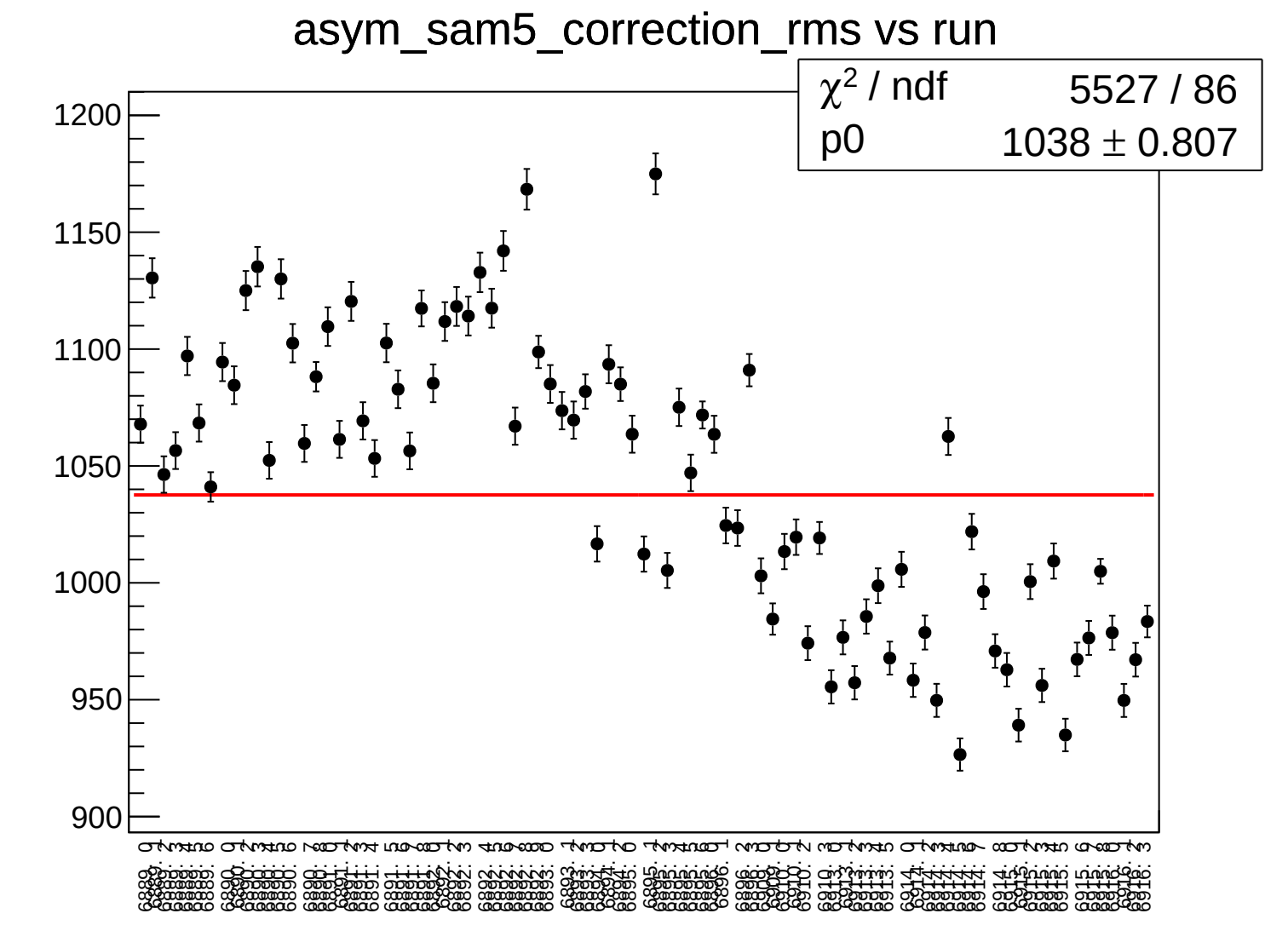

dit_asym_sam5_mean vs run
χ² / ndf 82.44 / 86
p0 −268.4 ± 176.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 74.28
Std Dev 25.85
3
2
1
0
−1
−2

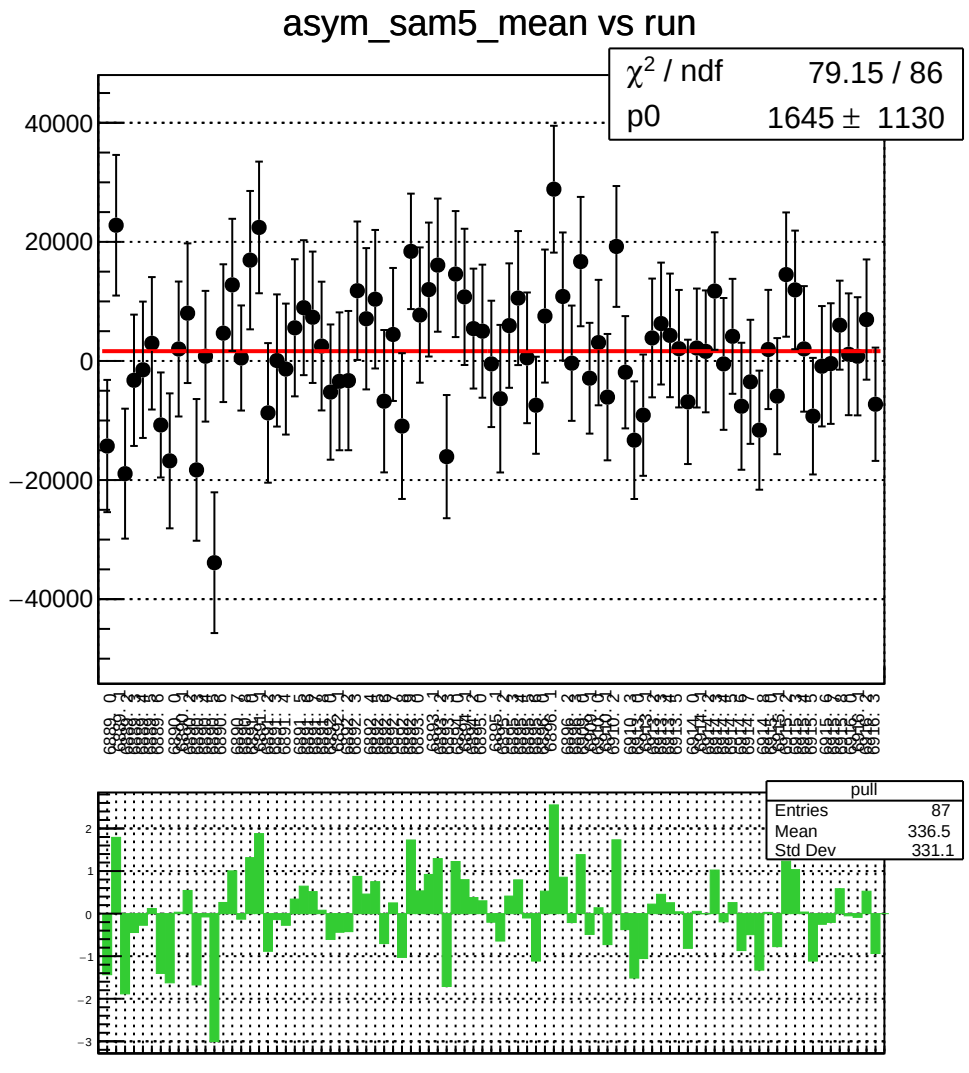

pull1D
Entries 87
Mean 0.01219
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

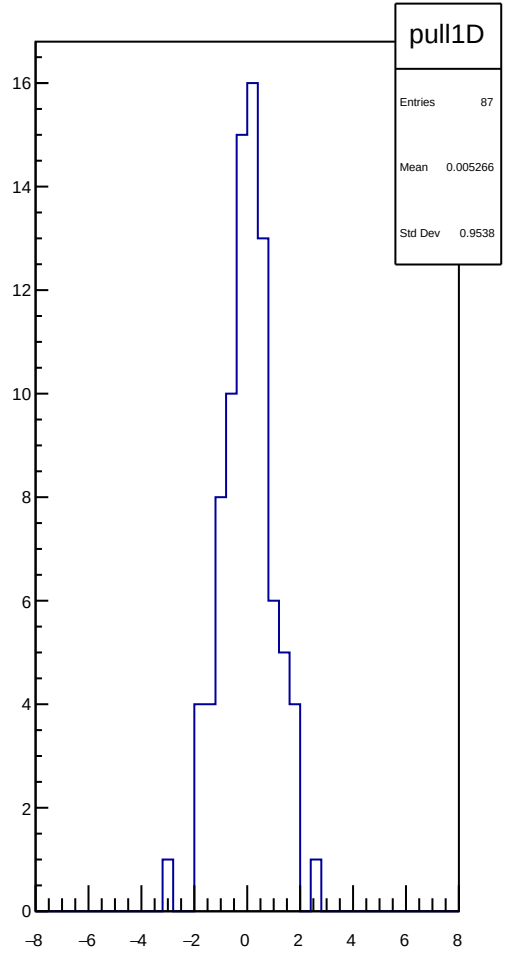

dit_asym_sam5_rms vs run
χ^2 / ndf 2895 / 86
p0 160.9 ± 0.125
175
170
165
160
155
150

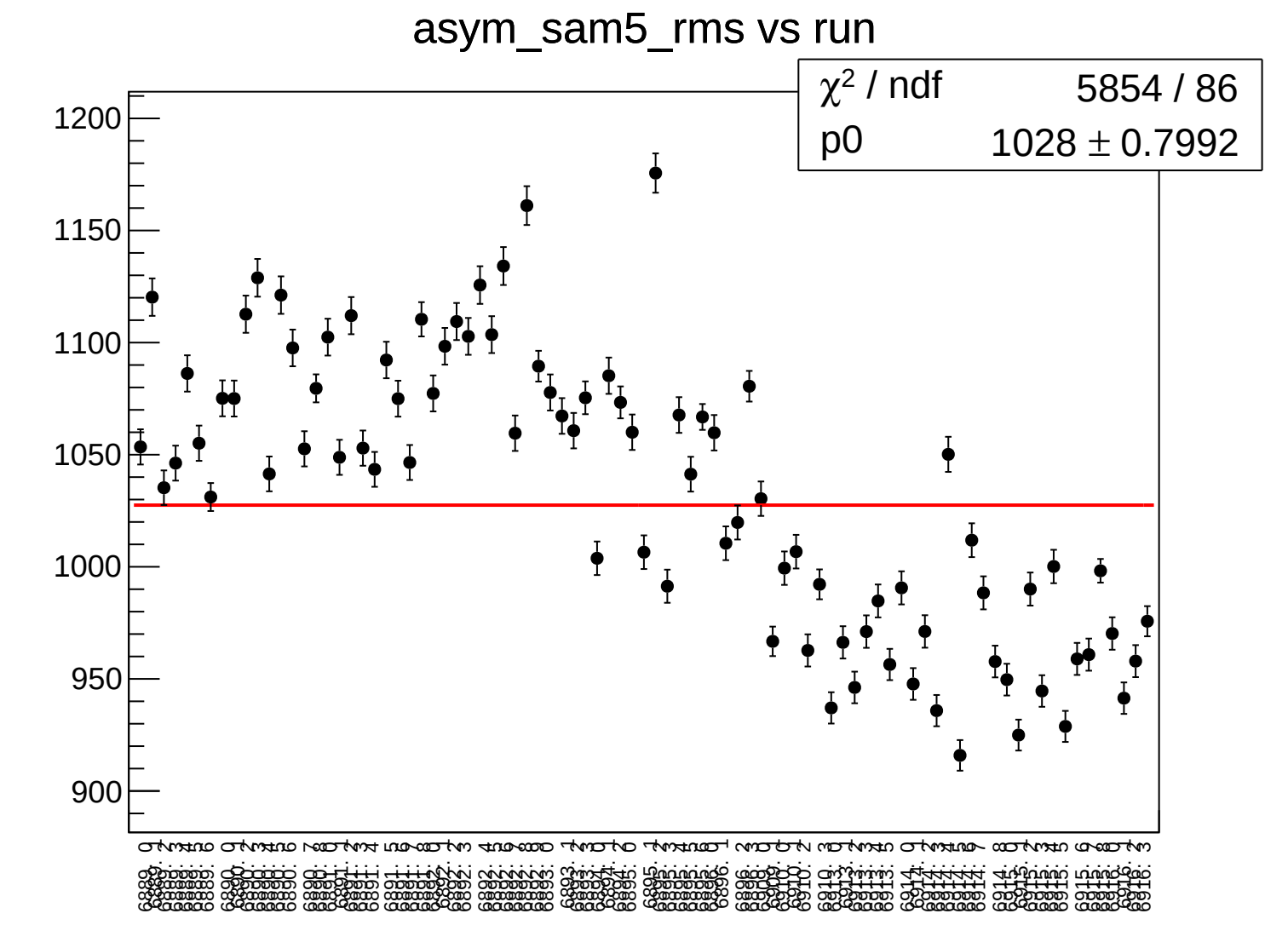

asym_sam5_correction_mean vs run
χ² / ndf 79.47 / 86
p0 −1915 ± 1141
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 475.8
Std Dev 474.7
3
2
1
0
−1
−2

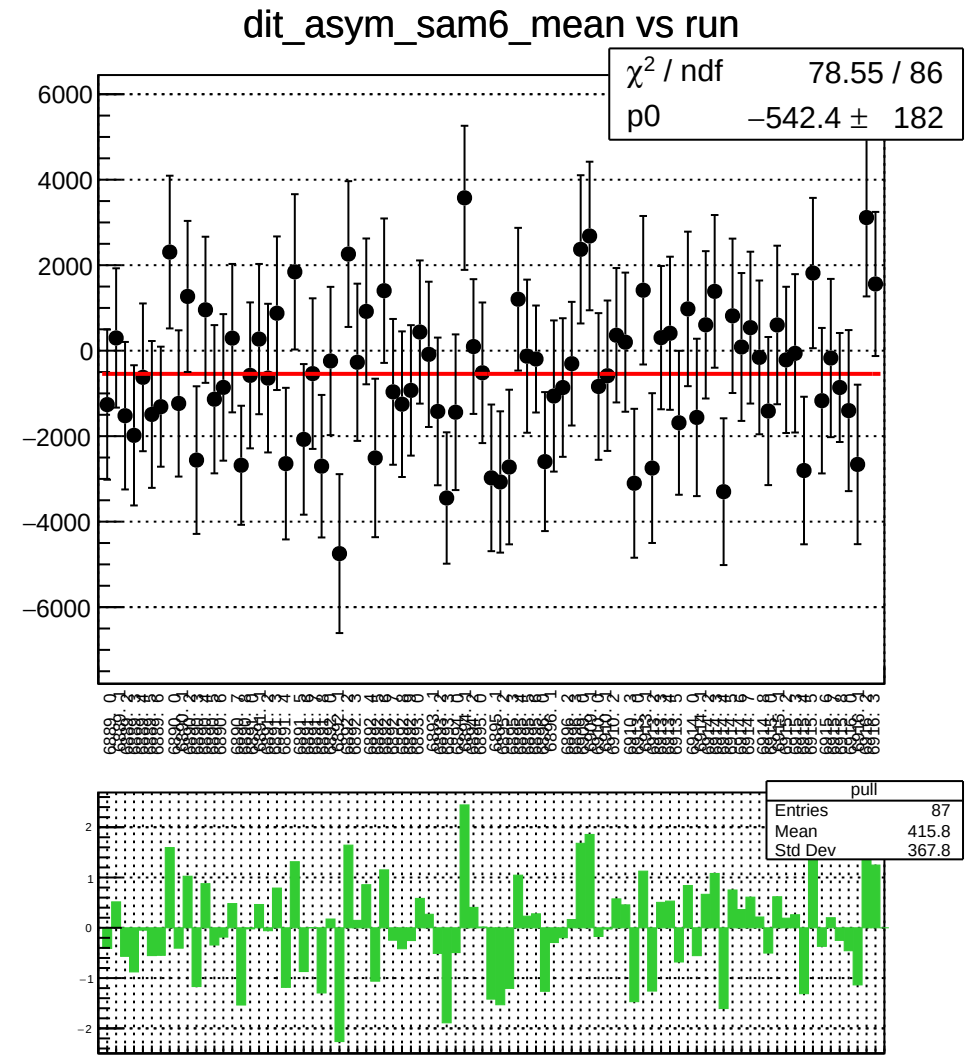

pull1D
Entries 87
Mean −0.003336
Std Dev 0.9557
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

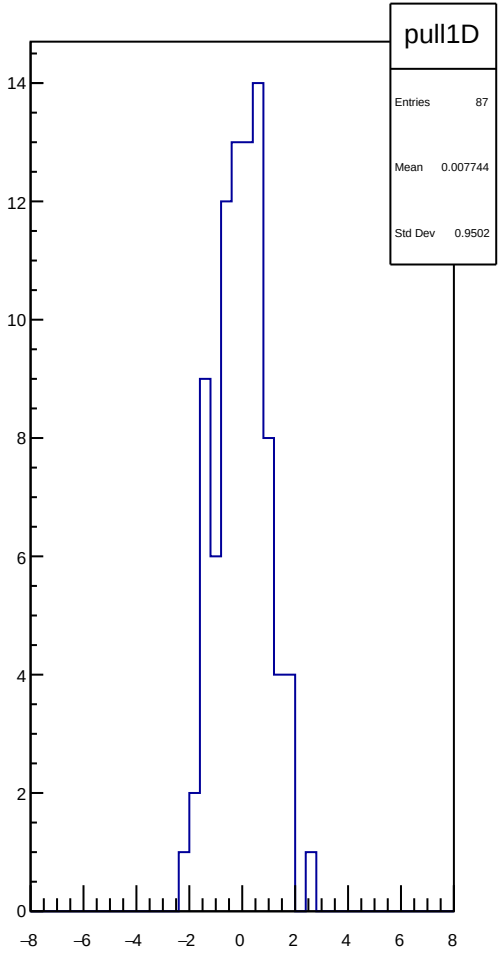

asym_sam5_correction_rms vs run
χ² / ndf 5527 / 86
p0 1038 ± 0.807
1200
1150
1100
1050
1000
950
900

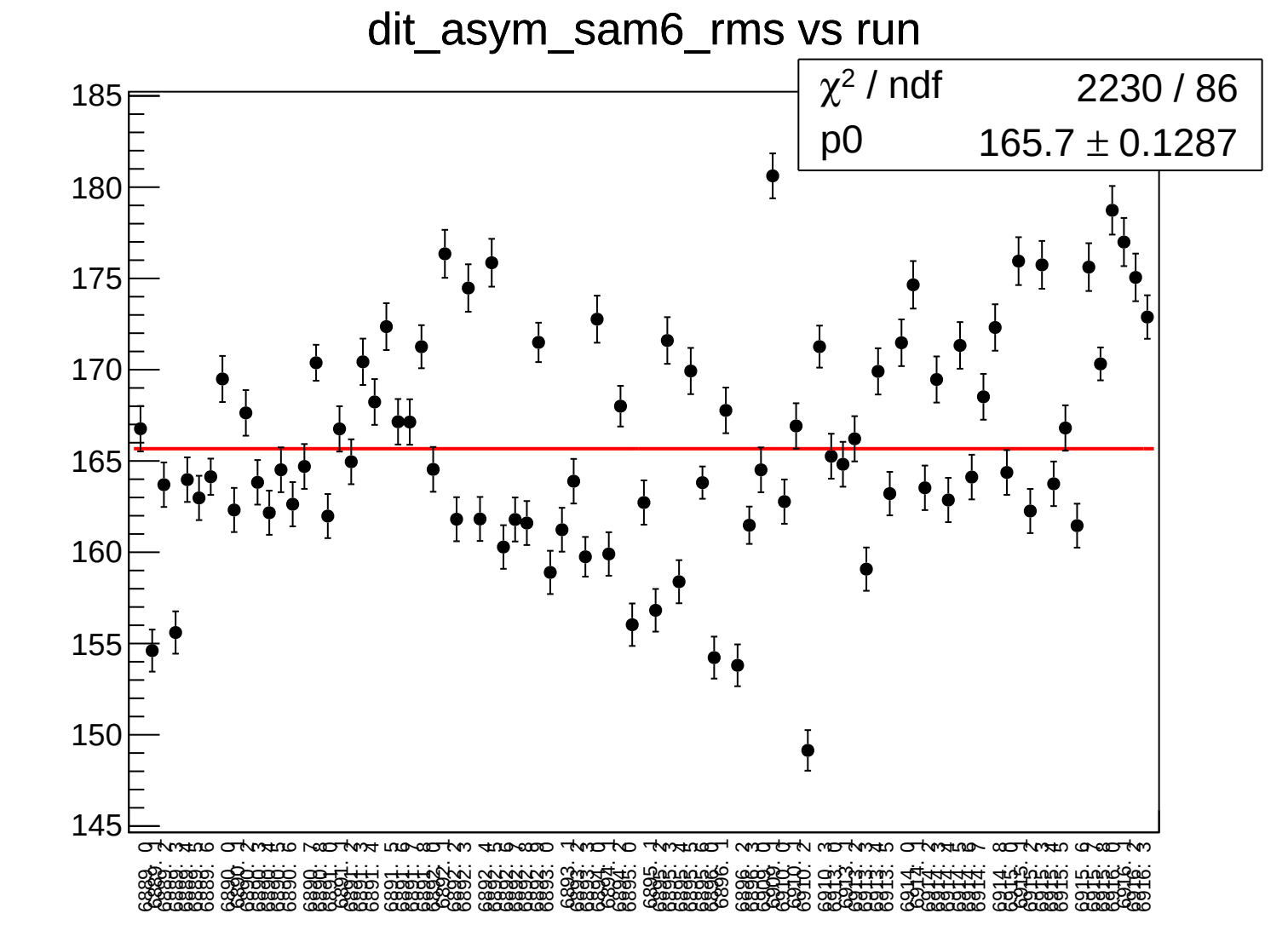

asym_sam5_mean vs run
χ² / ndf 79.15 / 86
p0 1645 ± 1130
40000
20000
0
−20000
−40000
pull
Entries 87
Mean 336.5
Std Dev 331.1
2
1
0
−1
−2
−3

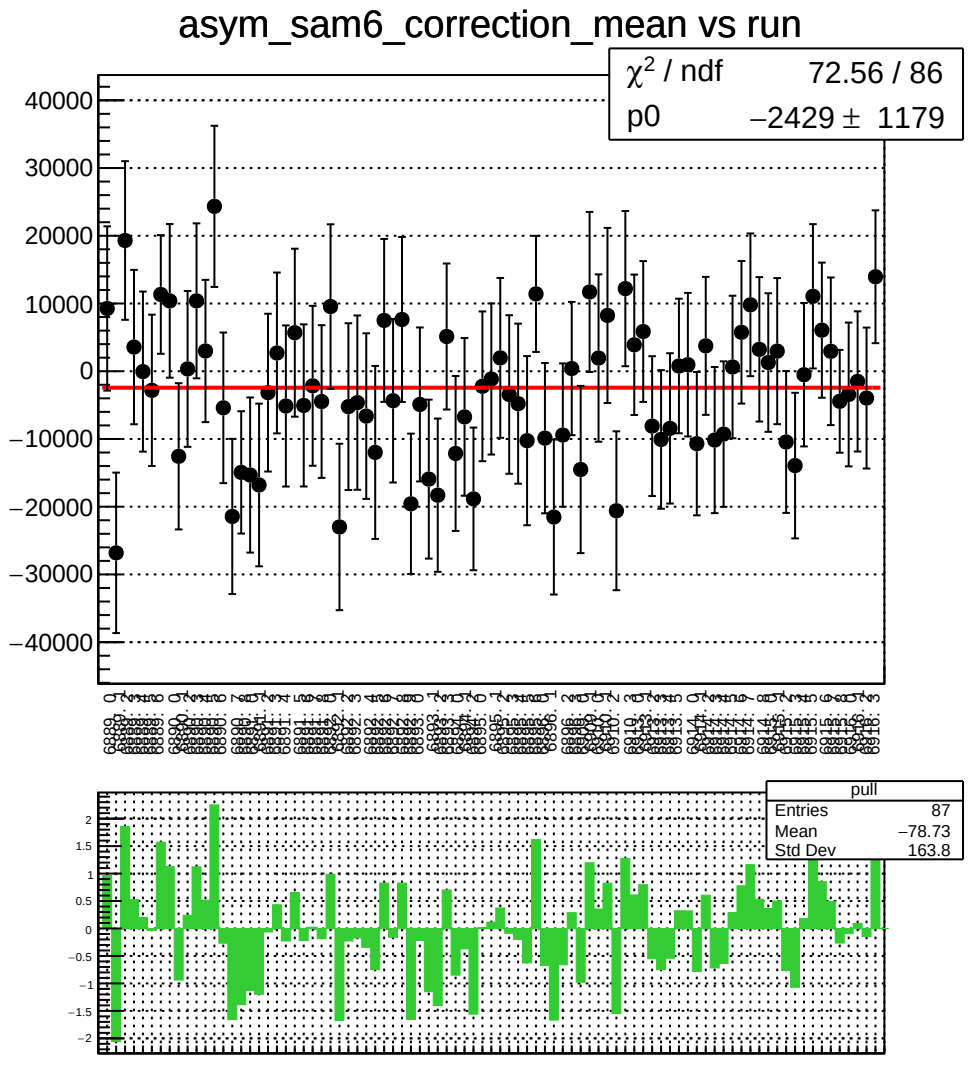

pull1D
Entries 87
Mean 0.005266
Std Dev 0.9538
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

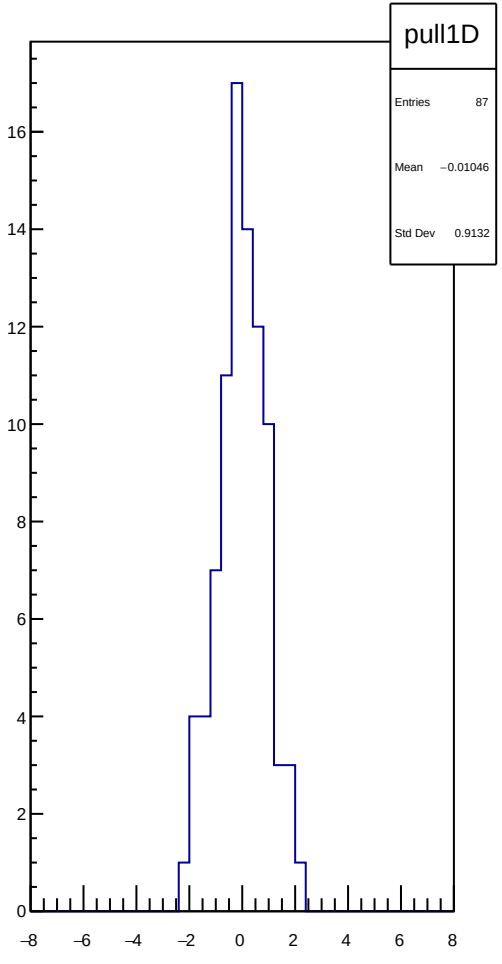

asym_sam5_rms vs run
χ² / ndf 5854 / 86
p0 1028 ± 0.7992
1200
1150
1100
1050
1000
950
900

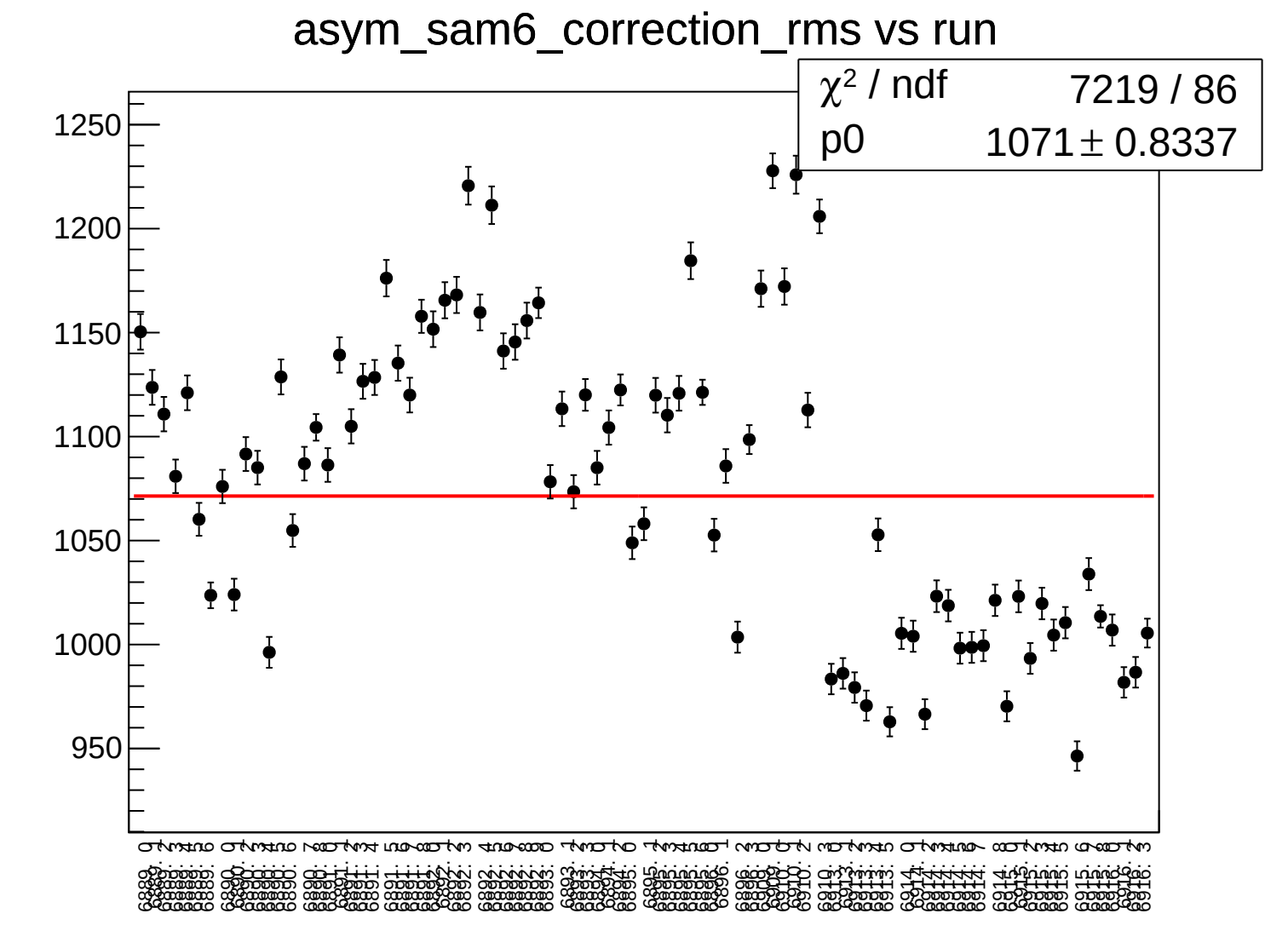

dit_asym_sam6_mean vs run
χ² / ndf 78.55 / 86
p0 −542.4 ± 182
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 415.8
Std Dev 367.8
2
1
0
−1
−2

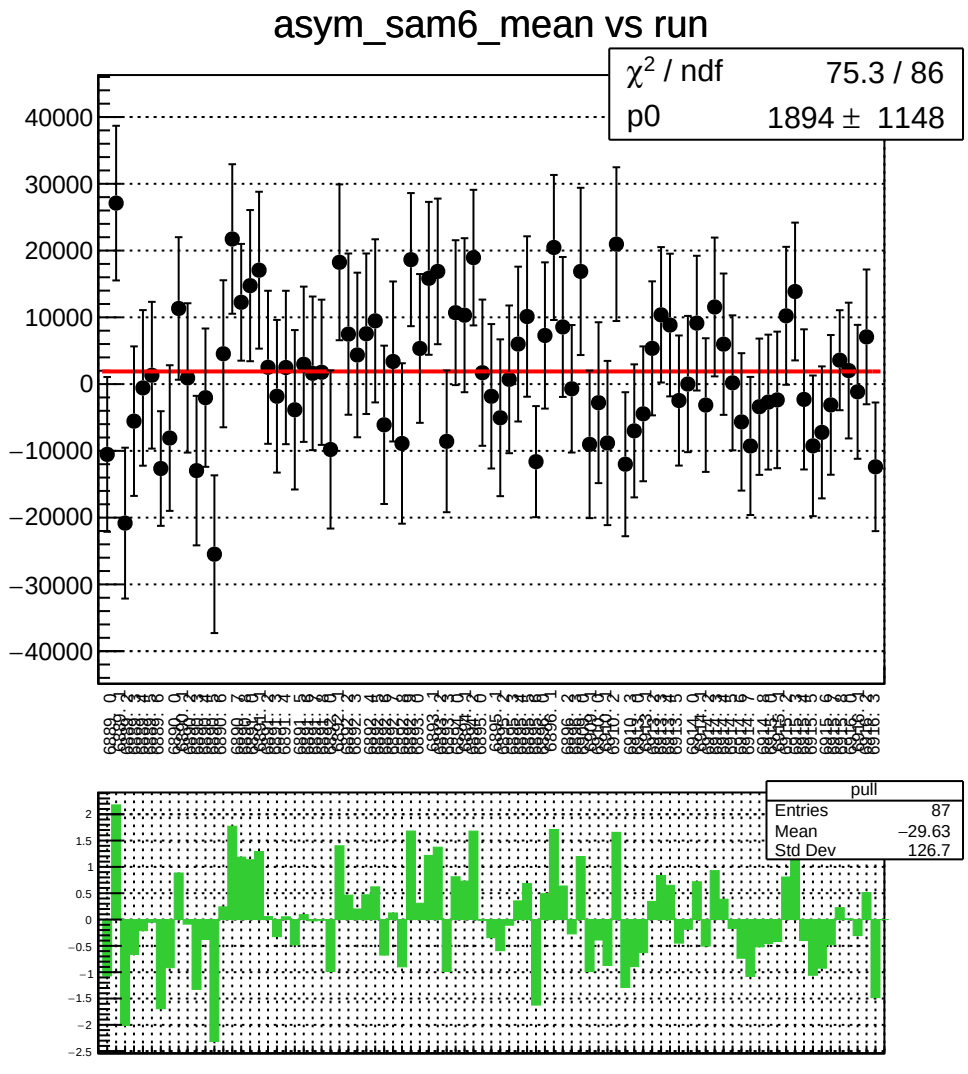

pull1D
Entries 87
Mean 0.007744
Std Dev 0.9502
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

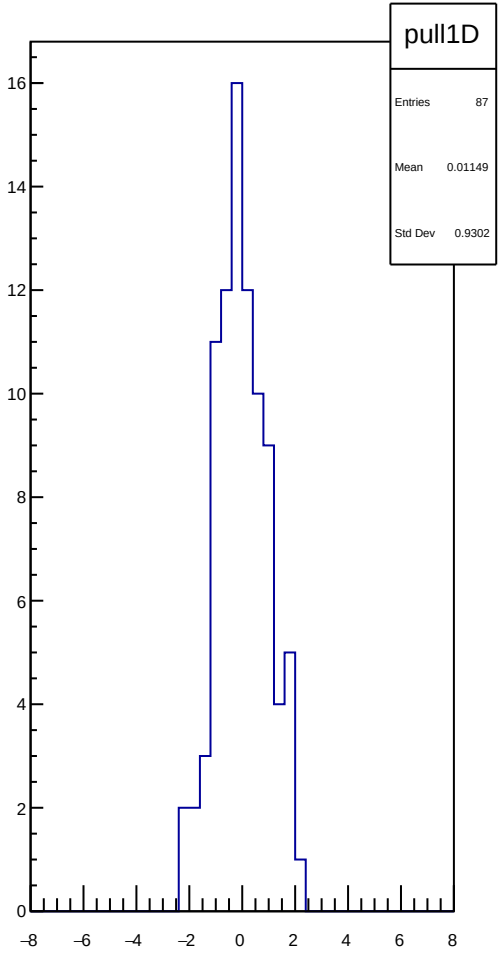

dit_asym_sam6_rms vs run
χ² / ndf 2230 / 86
p0 165.7 ± 0.1287
185
180
175
170
165
160
155
150
145

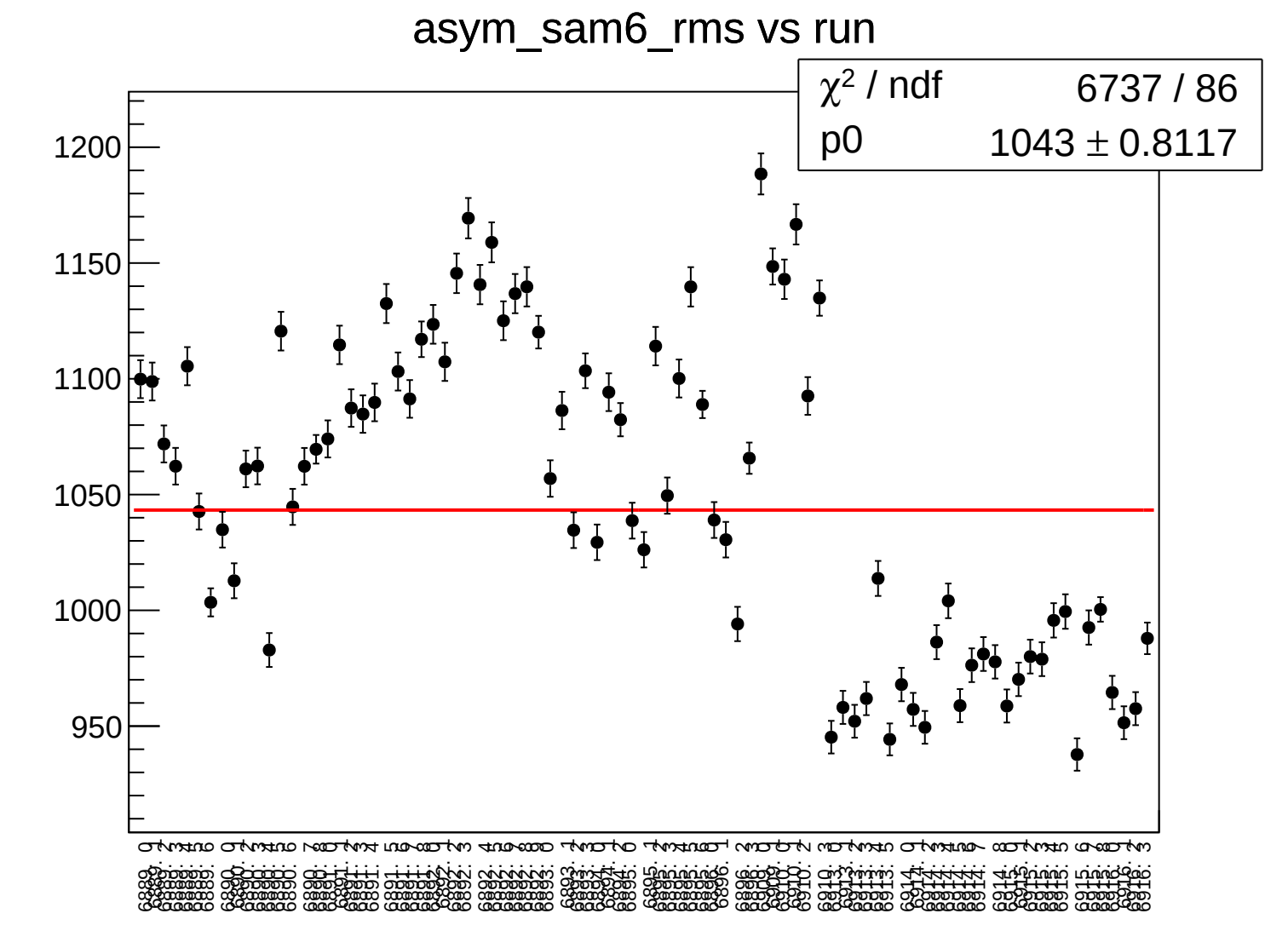

asym_sam6_correction_mean vs run
χ² / ndf 72.56 / 86
p0 −2429 ± 1179
pull
Entries 87
Mean −78.73
Std Dev 163.8

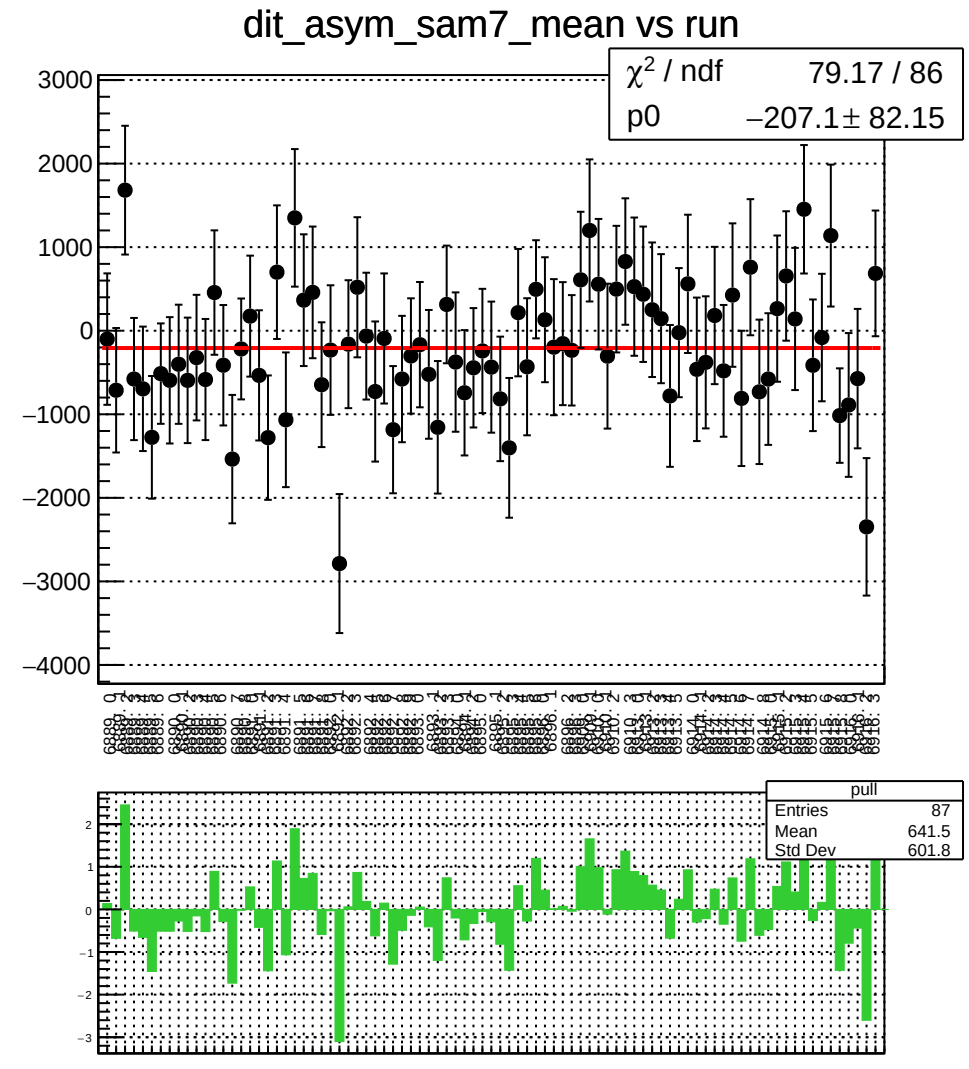

pull1D
Entries 87
Mean −0.01046
Std Dev 0.9132

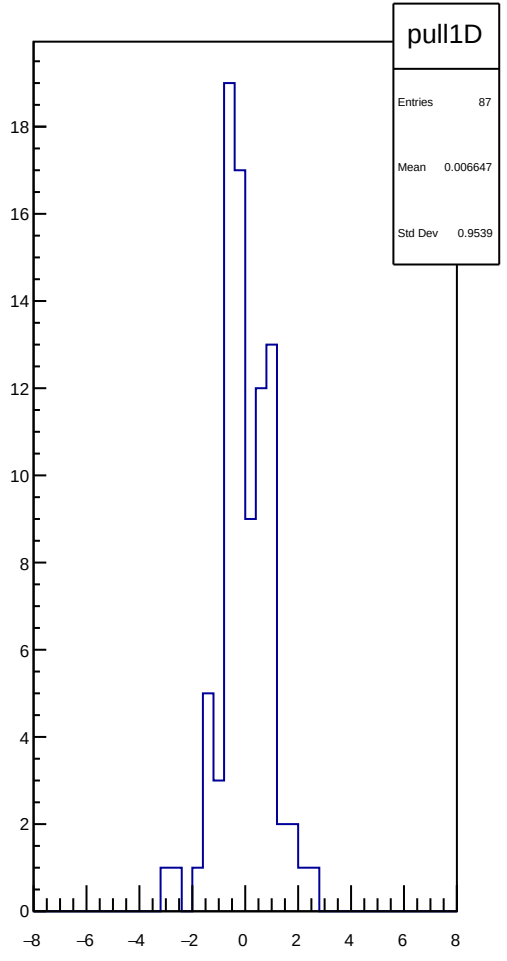

asym_sam6_correction_rms vs run
χ² / ndf 7219 / 86
p0 1071 ± 0.8337
1250
1200
1150
1100
1050
1000
950

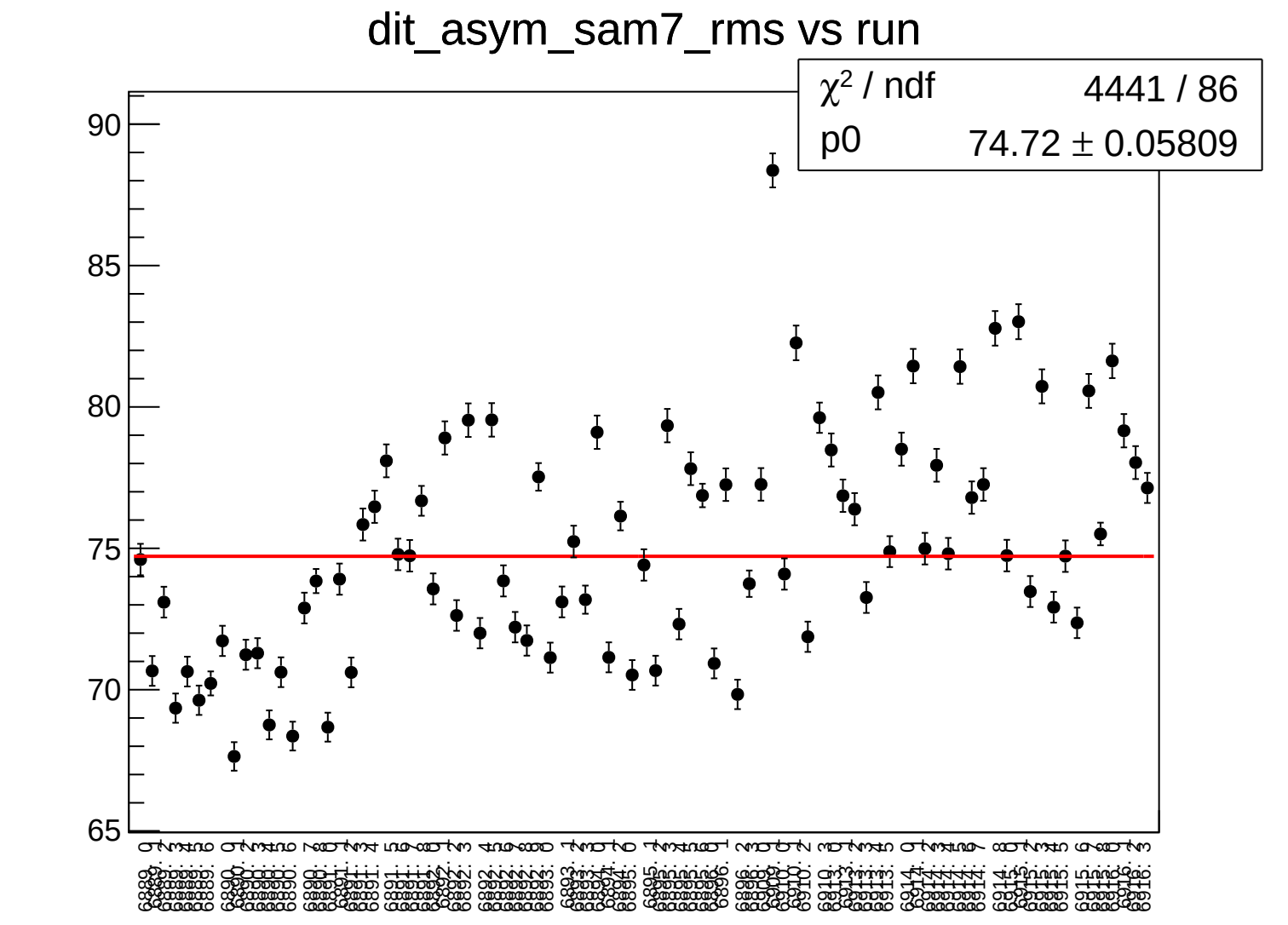

asym_sam6_mean vs run
χ² / ndf 75.3 / 86
p0 1894 ± 1148
pull
Entries 87
Mean −29.63
Std Dev 126.7

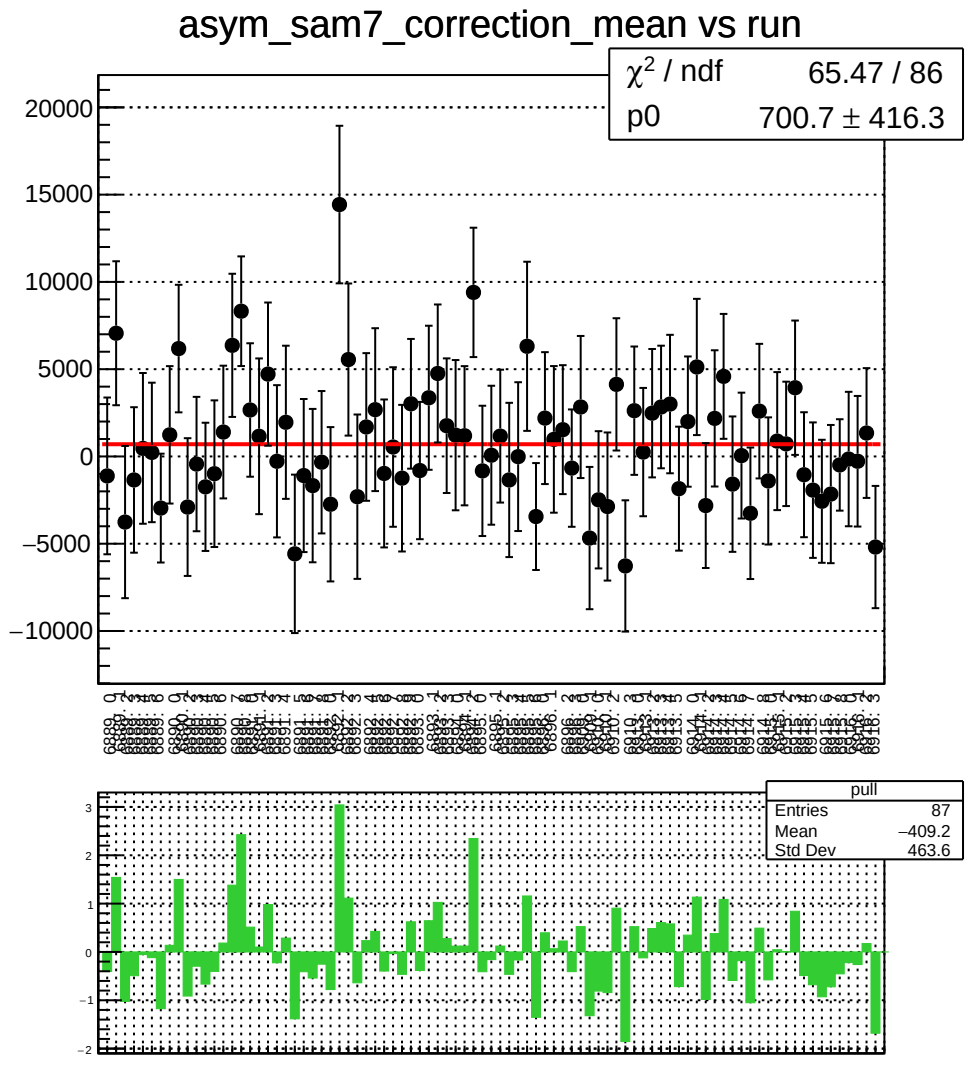

pull1D
Entries 87
Mean 0.01149
Std Dev 0.9302

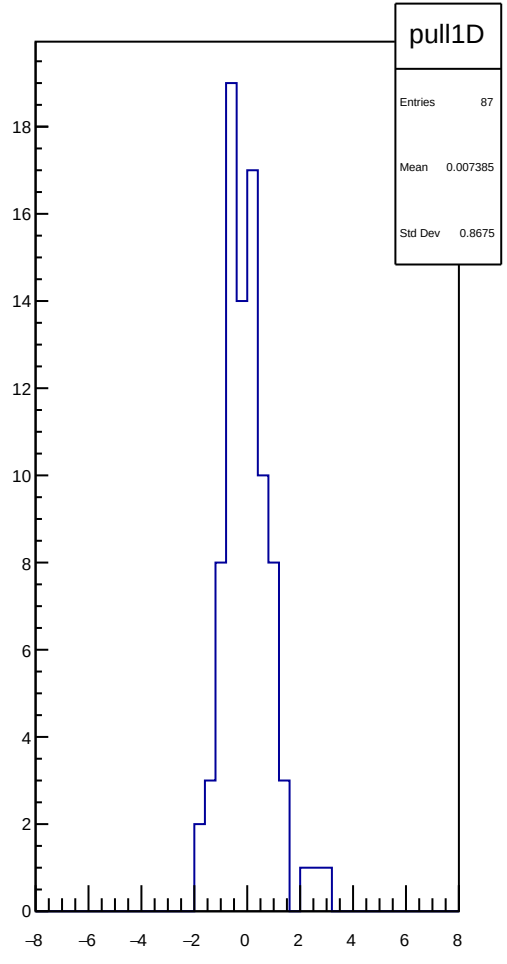

asym_sam6_rms vs run
χ² / ndf 6737 / 86
p0 1043 ± 0.8117
1200
1150
1100
1050
1000
950

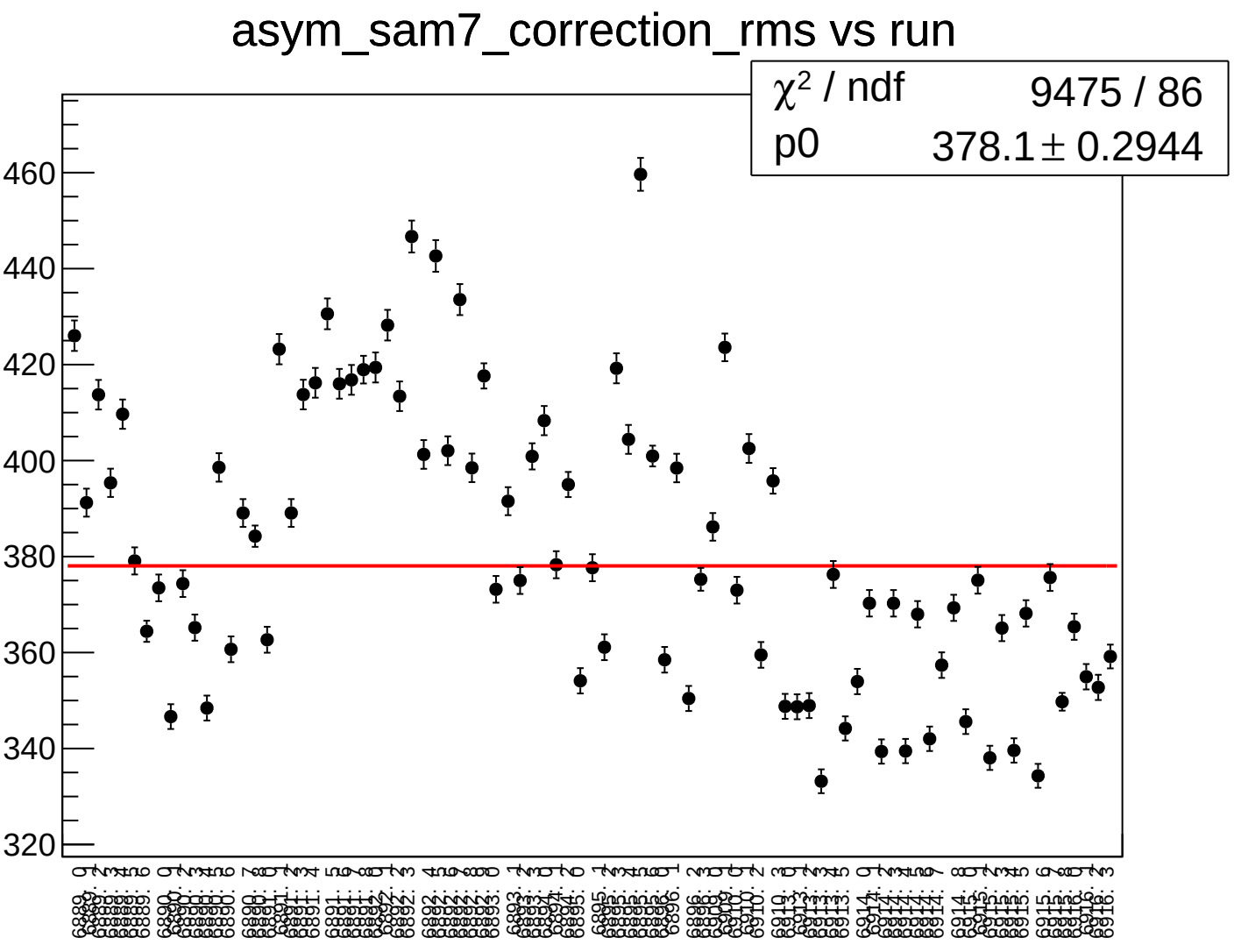

dit_asym_sam7_mean vs run
χ² / ndf 79.17 / 86
p0 −207.1± 82.15
pull
Entries 87
Mean 641.5
Std Dev 601.8

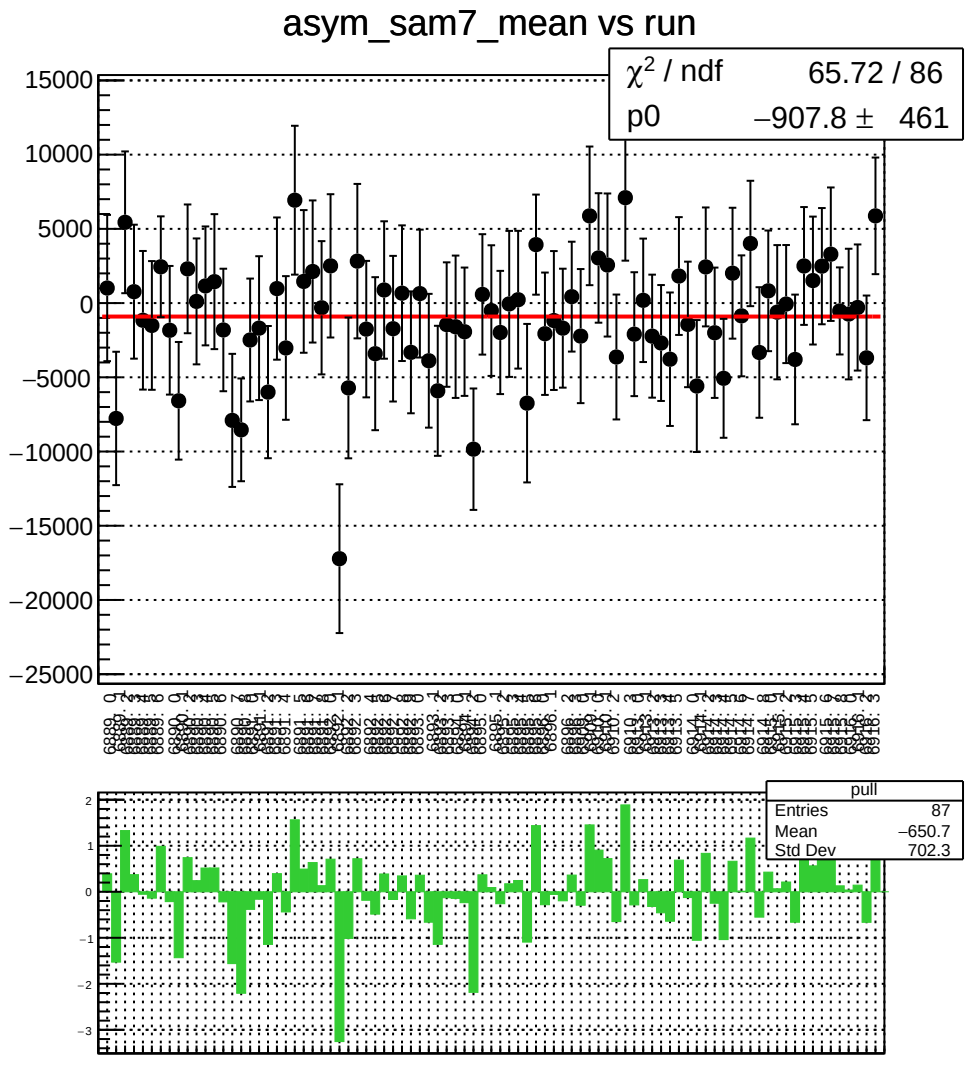

pull1D
Entries 87
Mean 0.006647
Std Dev 0.9539

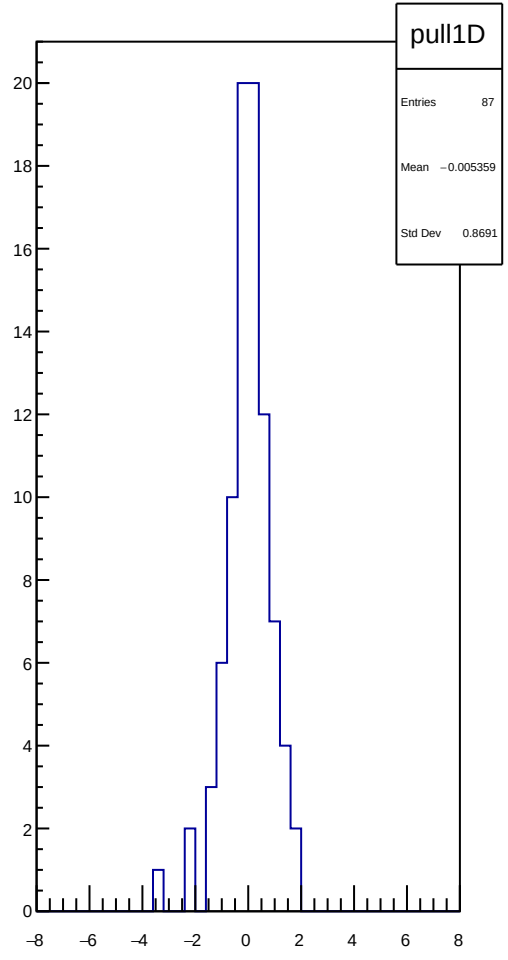

dit_asym_sam7_rms vs run
χ^2 / ndf 4441 / 86
p0 74.72 ± 0.05809
90
85
80
75
70
65

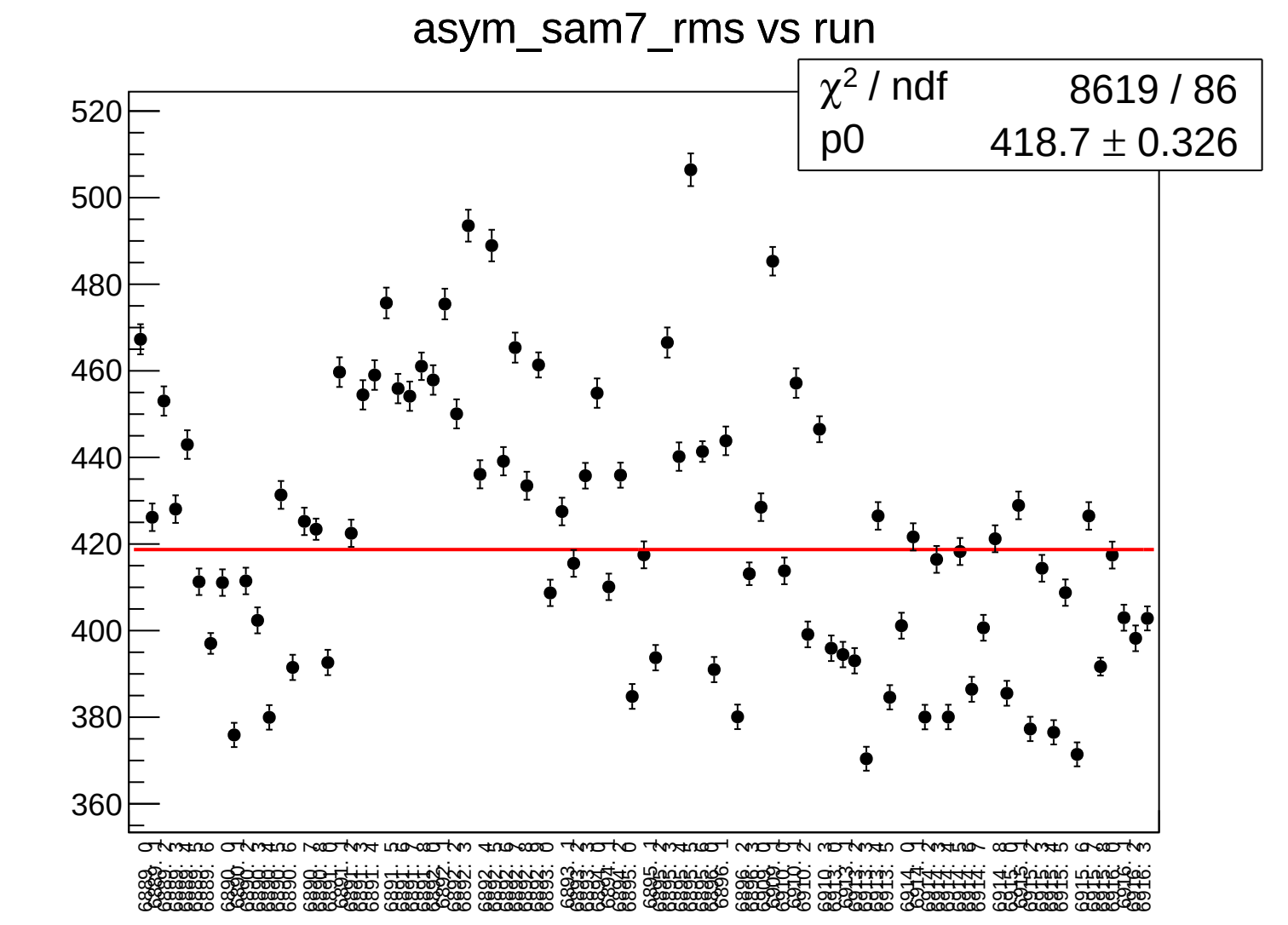

asym_sam7_correction_mean vs run
χ² / ndf 65.47 / 86
p0 700.7 ± 416.3
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −409.2
Std Dev 463.6
3
2
1
0
−1
−2

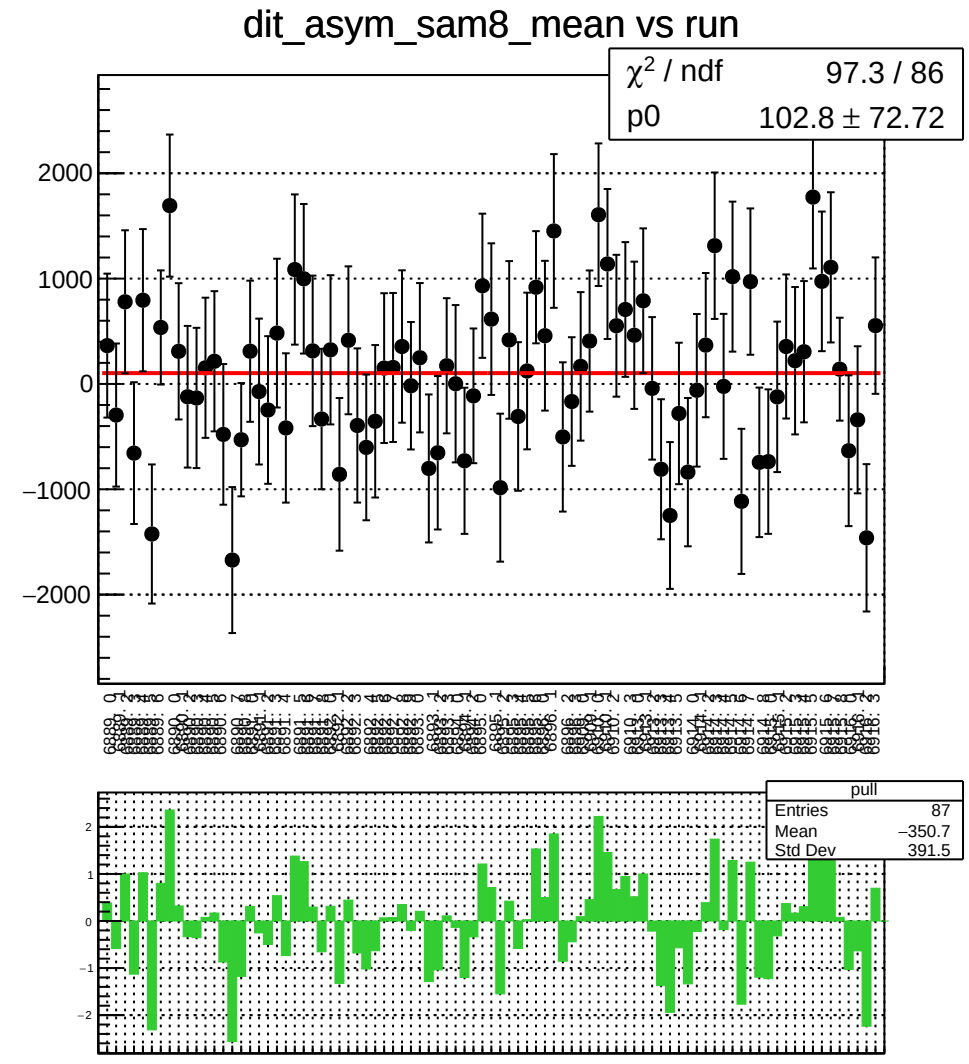

pull1D
Entries 87
Mean 0.007385
Std Dev 0.8675
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

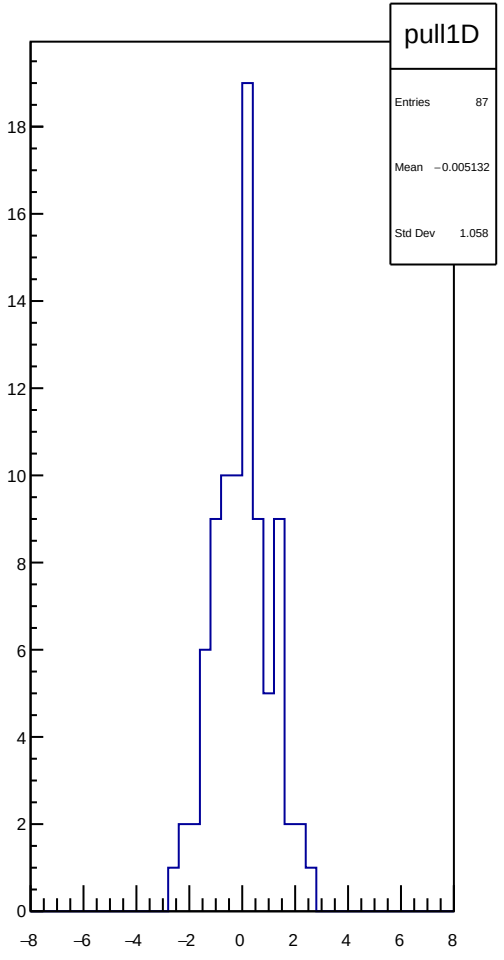

asym_sam7_correction_rms vs run
χ² / ndf 9475 / 86
p0 378.1 ± 0.2944
460
440
420
400
380
360
340
320

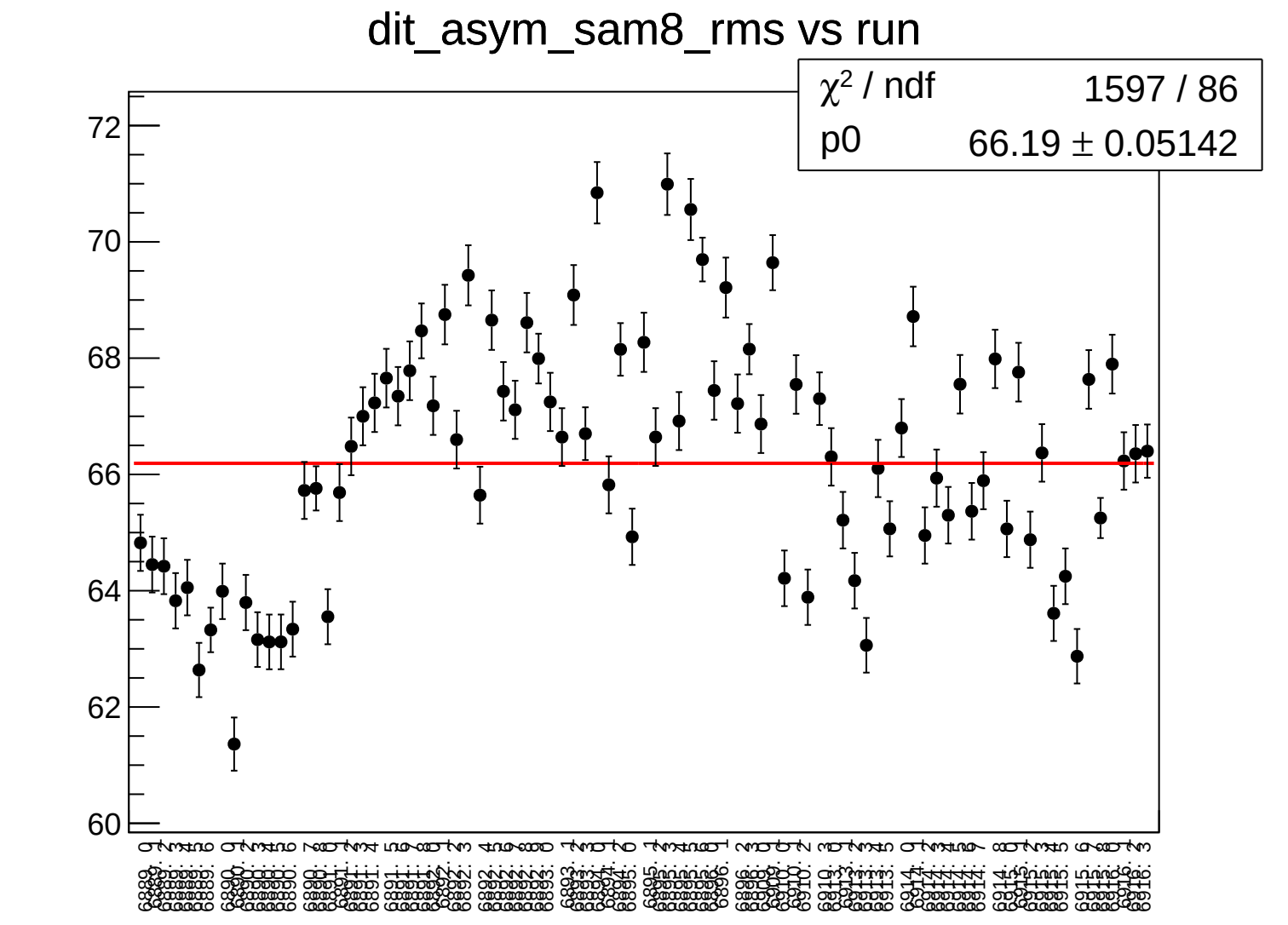

asym_sam7_mean vs run
χ² / ndf 65.72 / 86
p0 −907.8 ± 461
pull
Entries 87
Mean −650.7
Std Dev 702.3

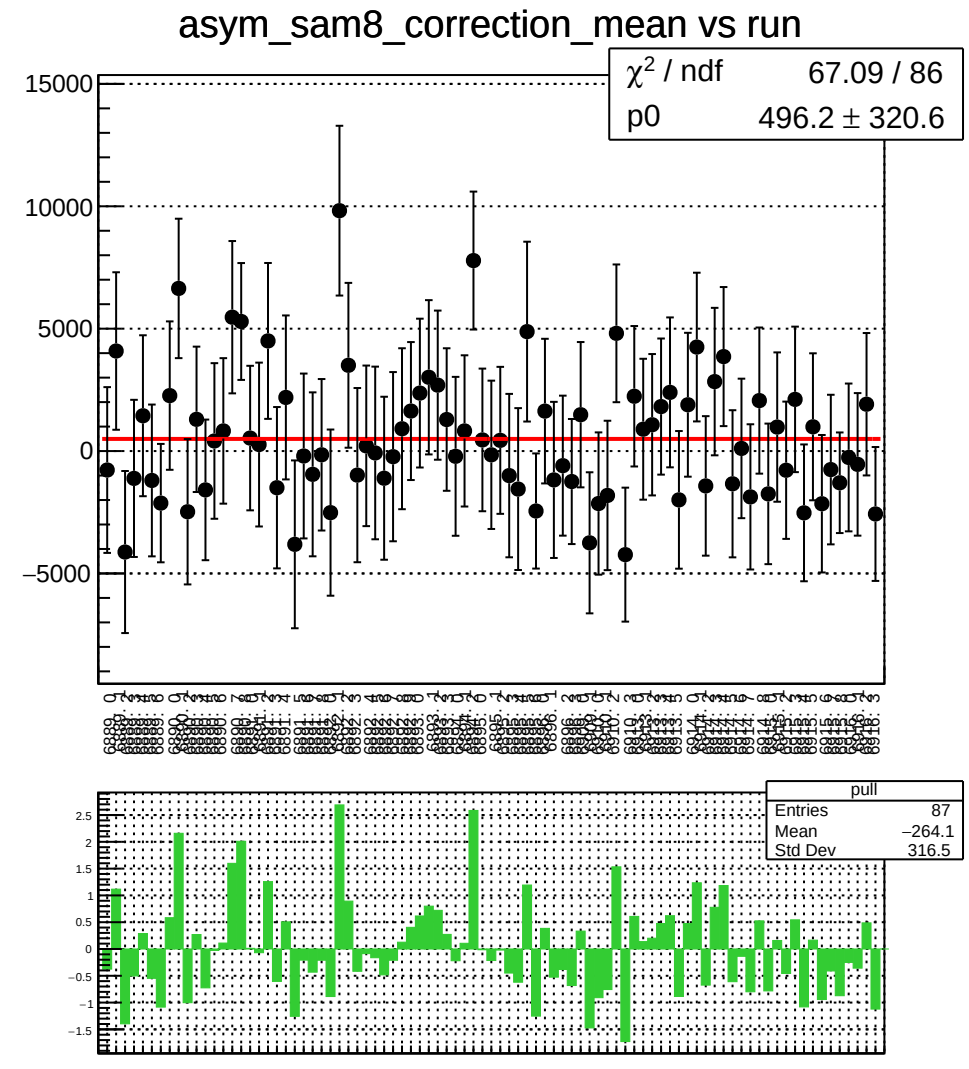

pull1D
Entries 87
Mean −0.005359
Std Dev 0.8691

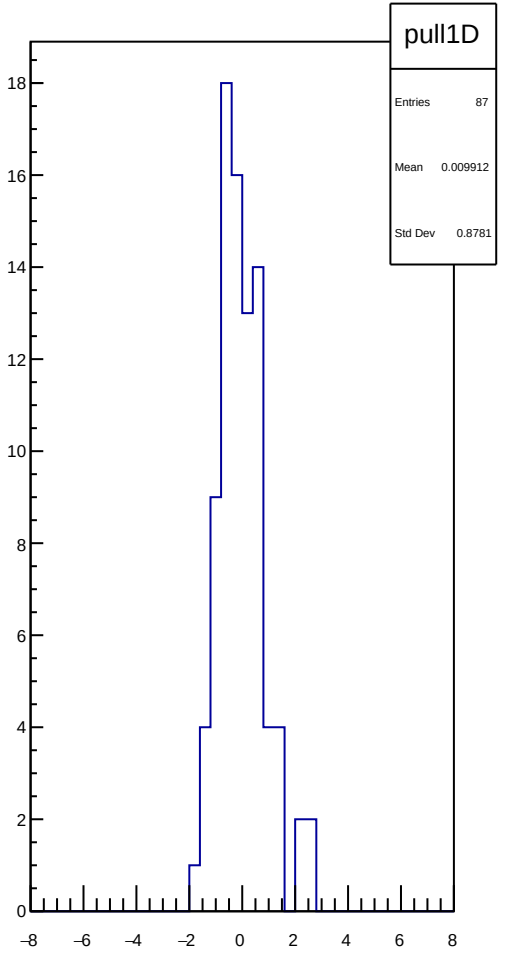

asym_sam7_rms vs run
χ^2 / ndf 8619 / 86
p0 418.7 ± 0.326
520
500
480
460
440
420
400
380
360

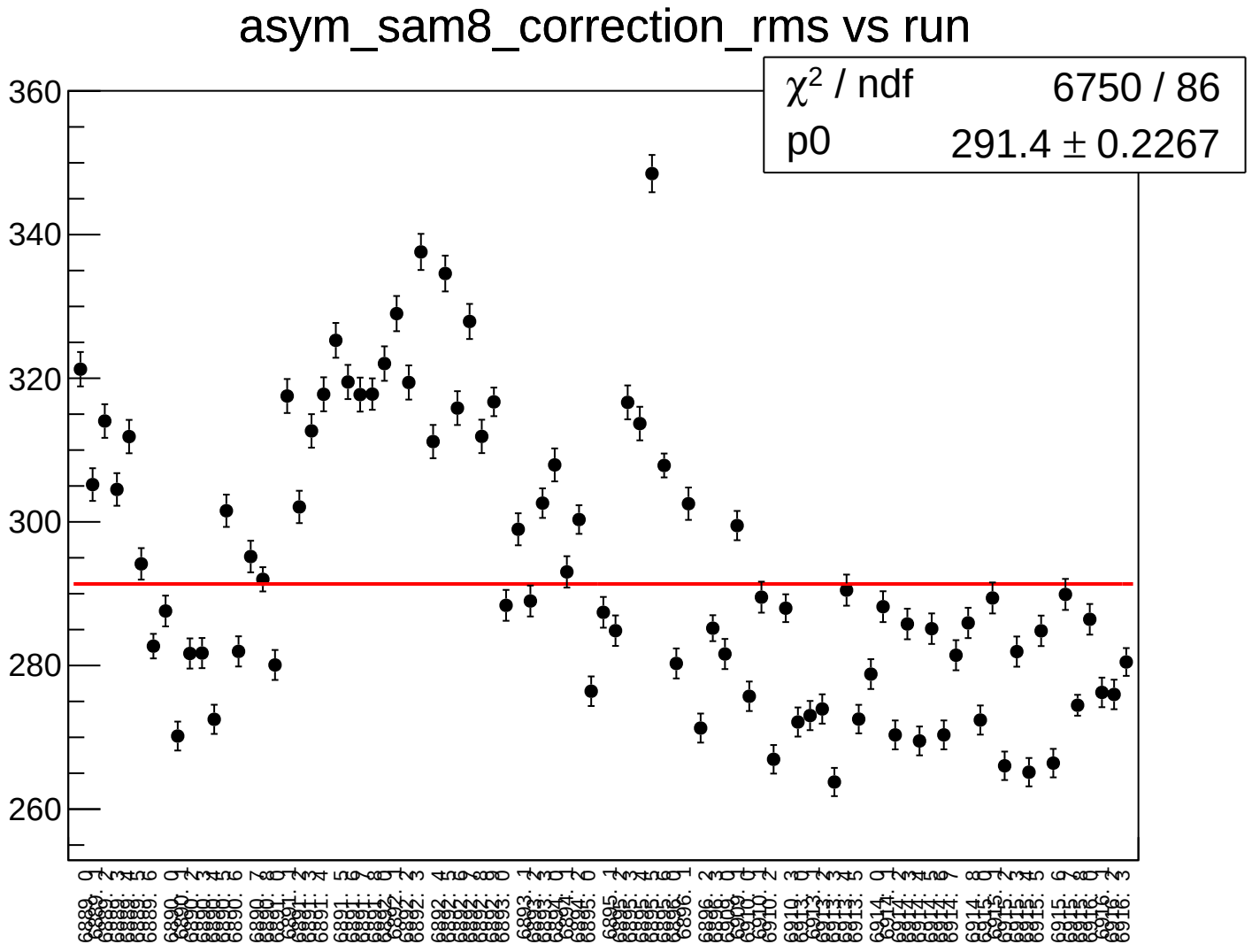

dit_asym_sam8_mean vs run
χ² / ndf 97.3 / 86
p0 102.8 ± 72.72
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −350.7
Std Dev 391.5
2
1
0
−1
−2

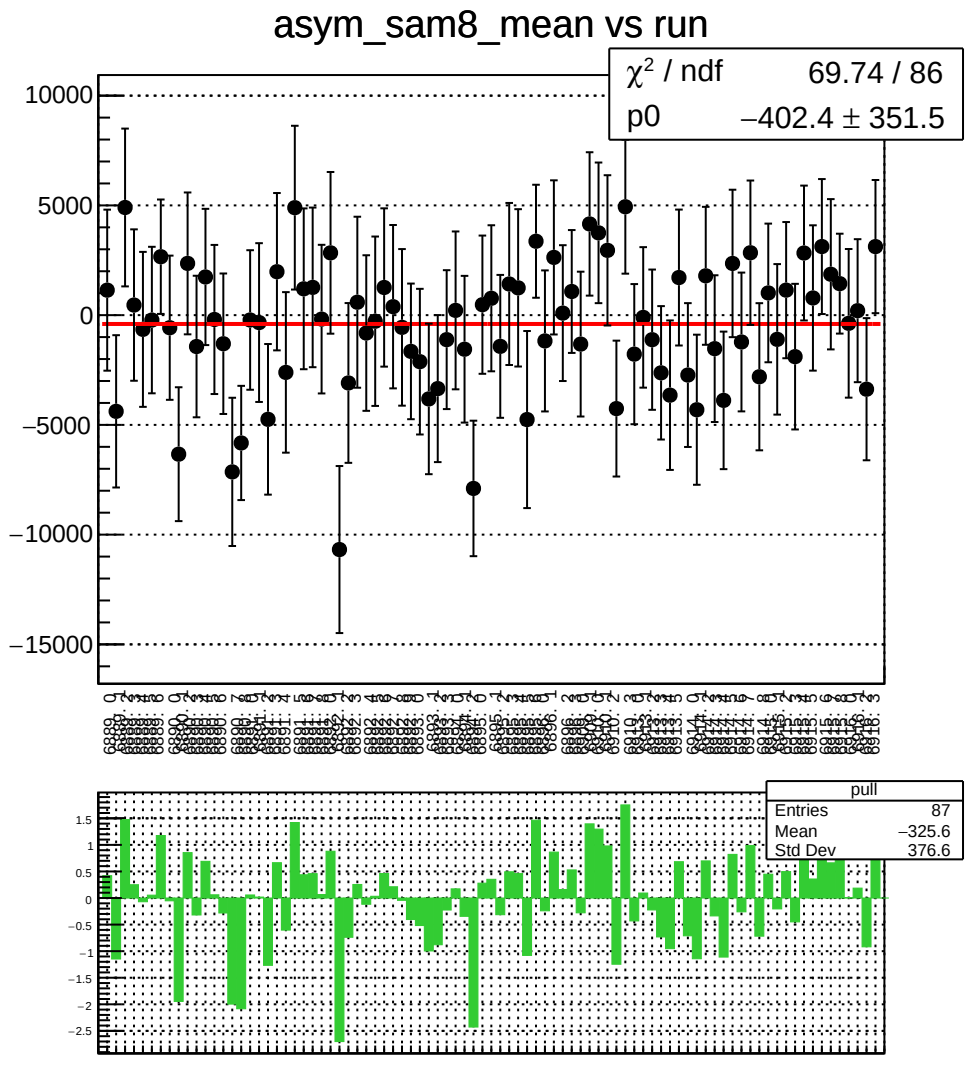

pull1D
Entries 87
Mean −0.005132
Std Dev 1.058
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

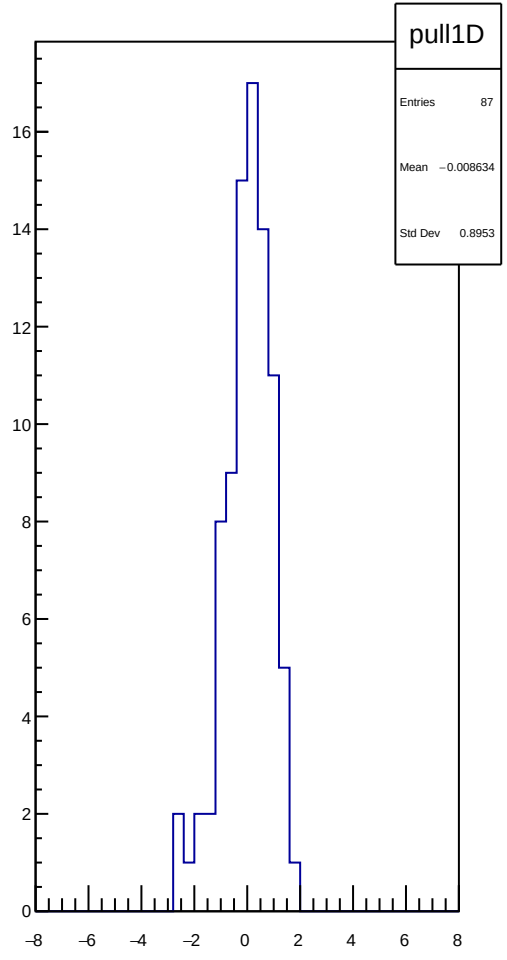

dit_asym_sam8_rms vs run
χ^2 / ndf 1597 / 86
p0 66.19 ± 0.05142
72
70
68
66
64
62
60

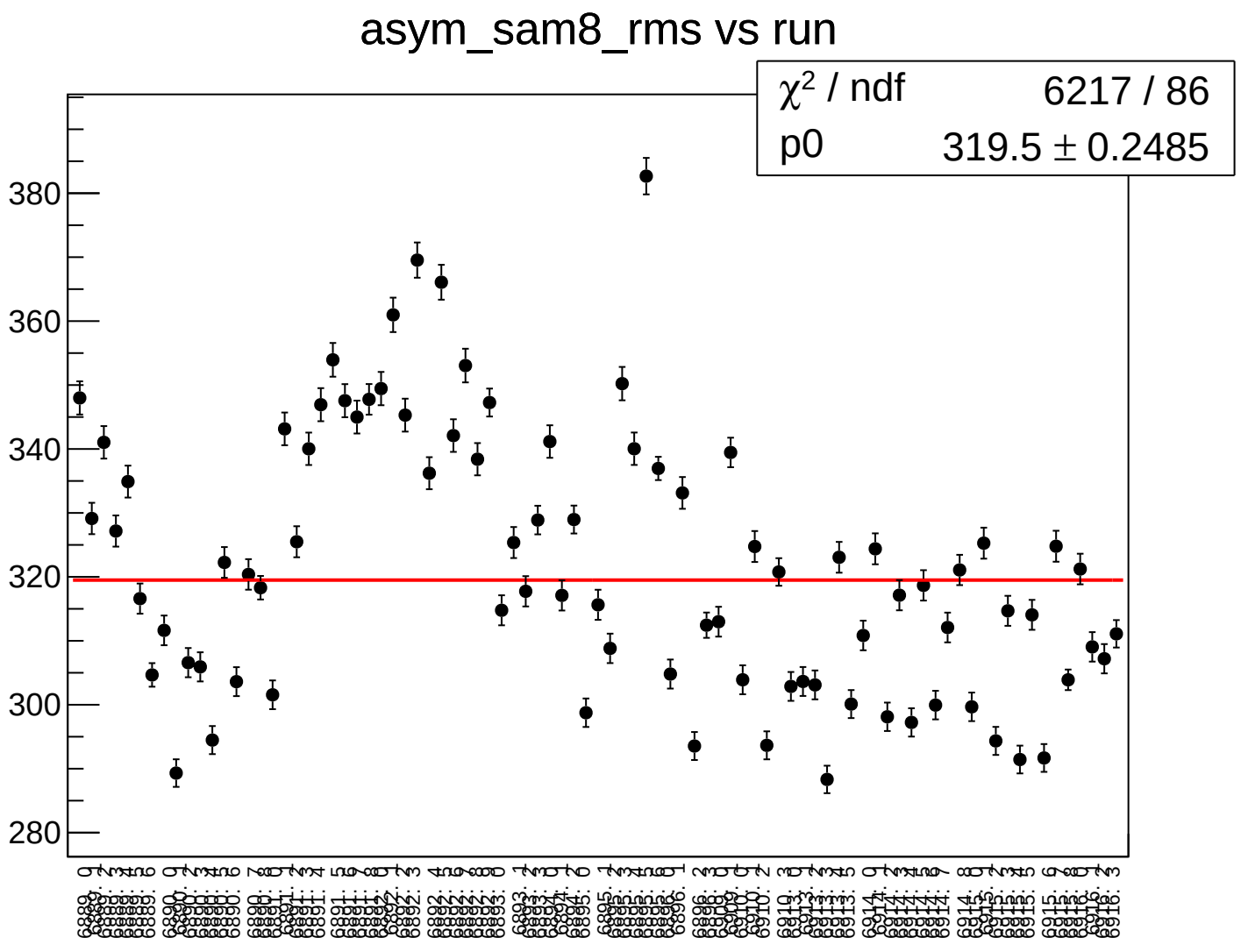

asym_sam8_correction_mean vs run
χ² / ndf 67.09 / 86
p0 496.2 ± 320.6
15000
10000
5000
0
−5000
pull
Entries 87
Mean −264.1
Std Dev 316.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

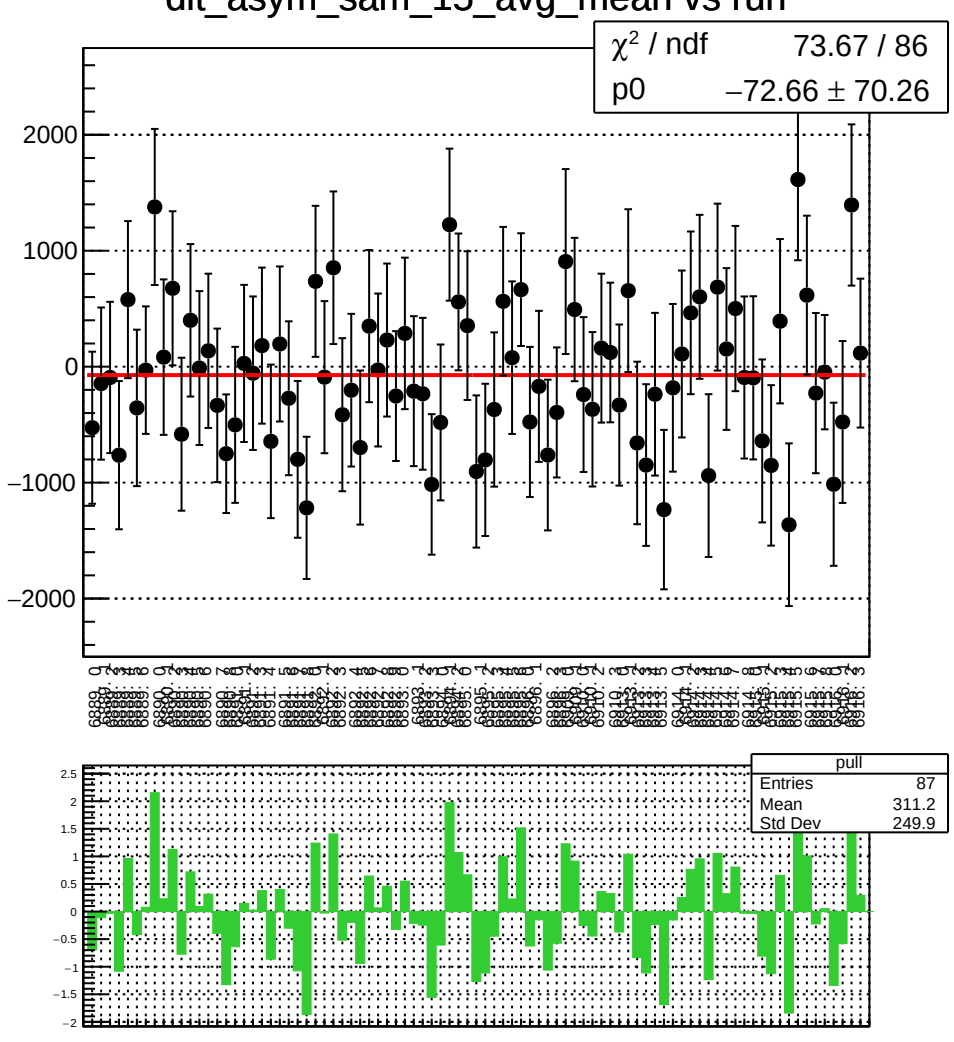

pull1D
Entries 87
Mean 0.009912
Std Dev 0.8781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

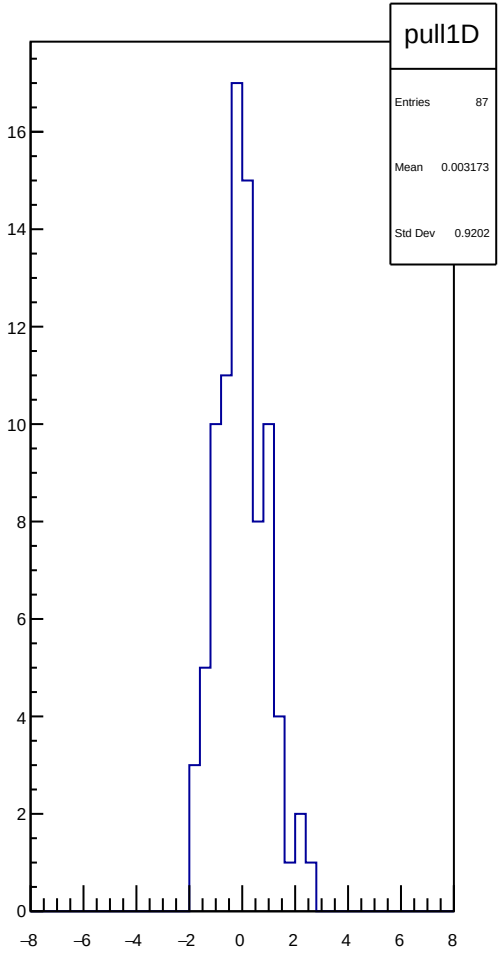

asym_sam8_correction_rms vs run
χ² / ndf 6750 / 86
p0 291.4 ± 0.2267
360
340
320
300
280
260

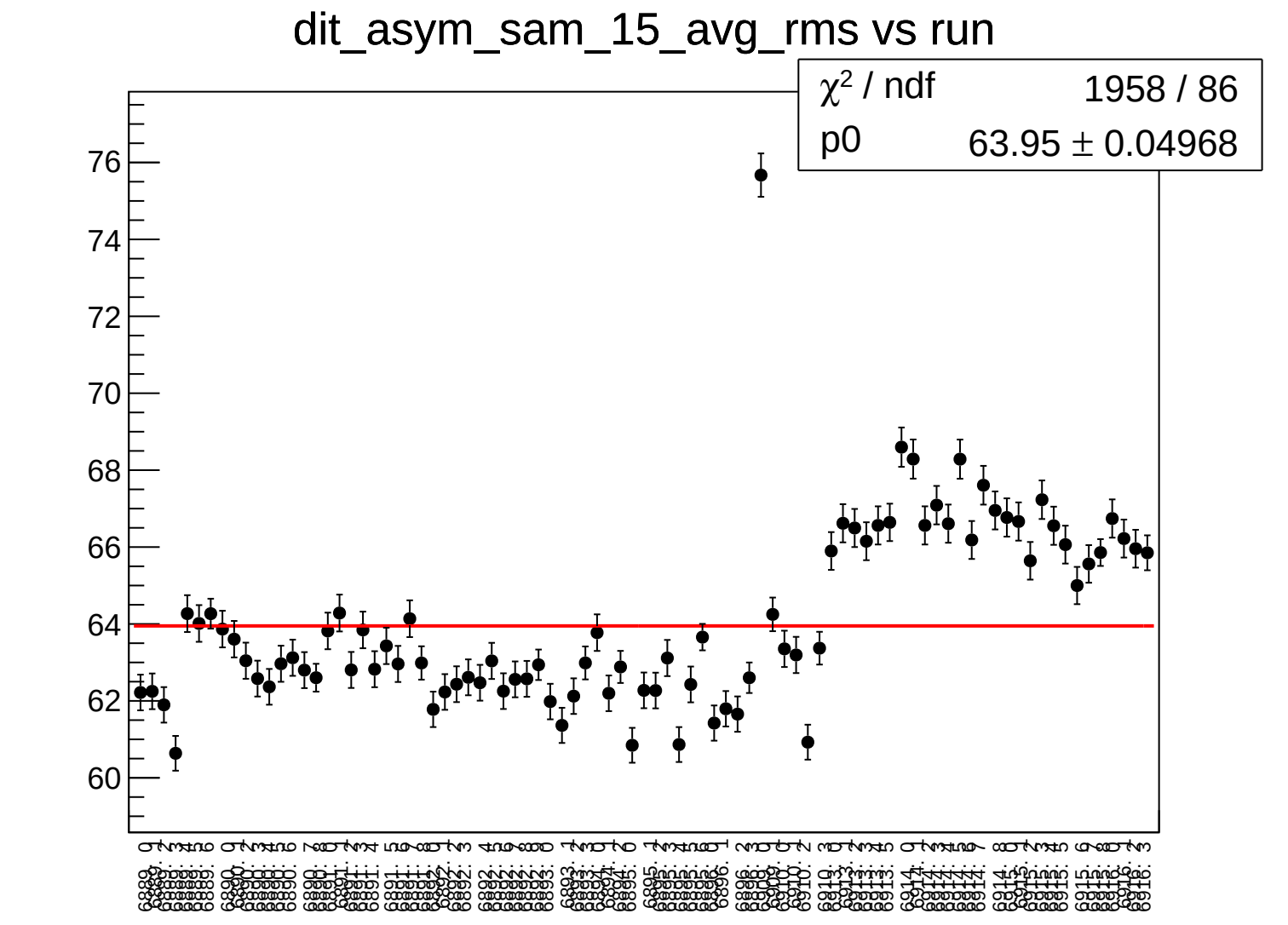

asym_sam8_mean vs run
χ² / ndf 69.74 / 86
p0 −402.4 ± 351.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −325.6
Std Dev 376.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

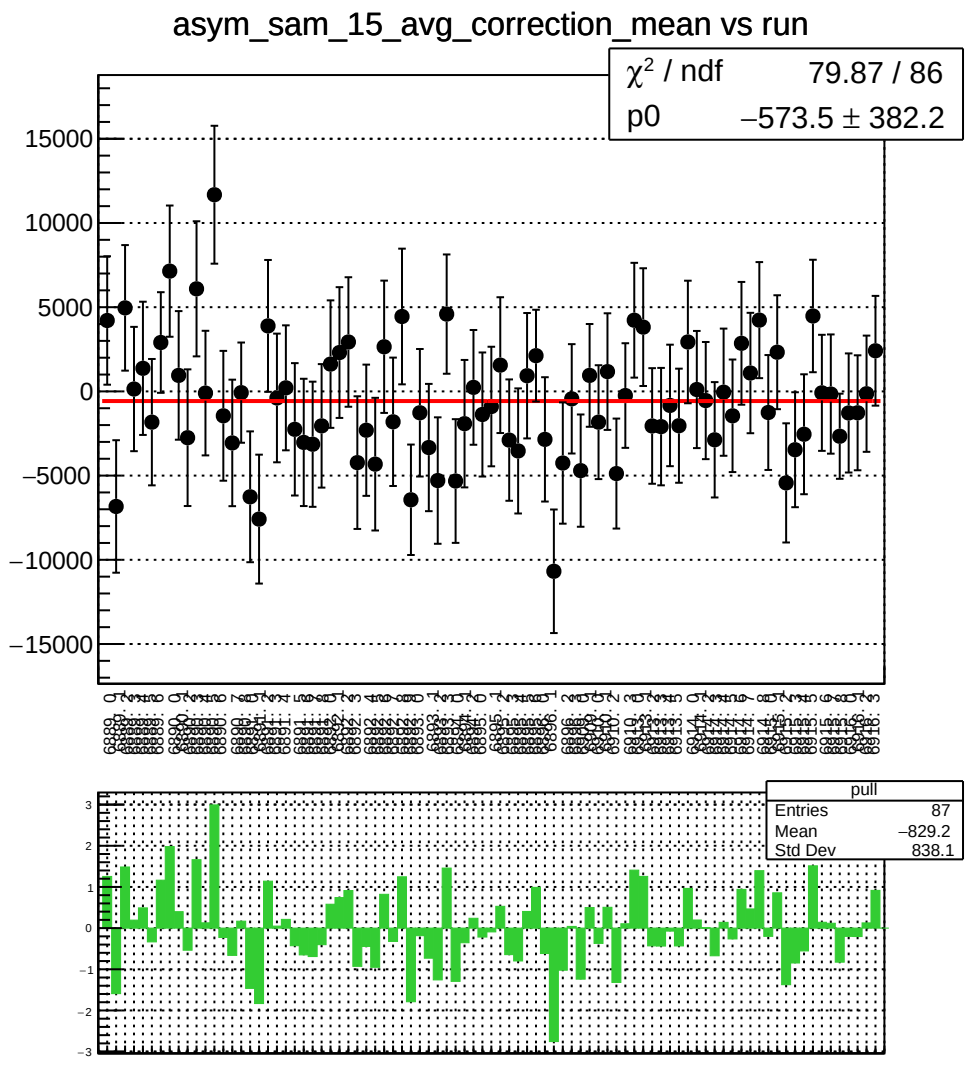

pull1D
Entries 87
Mean −0.008634
Std Dev 0.8953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

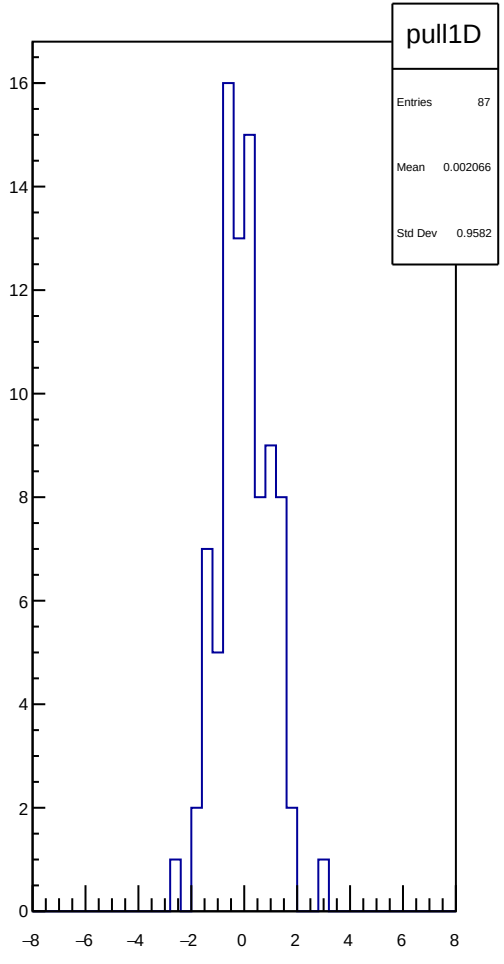

asym_sam8_rms vs run
χ² / ndf 6217 / 86
p0 319.5 ± 0.2485
380
360
340
320
300
280

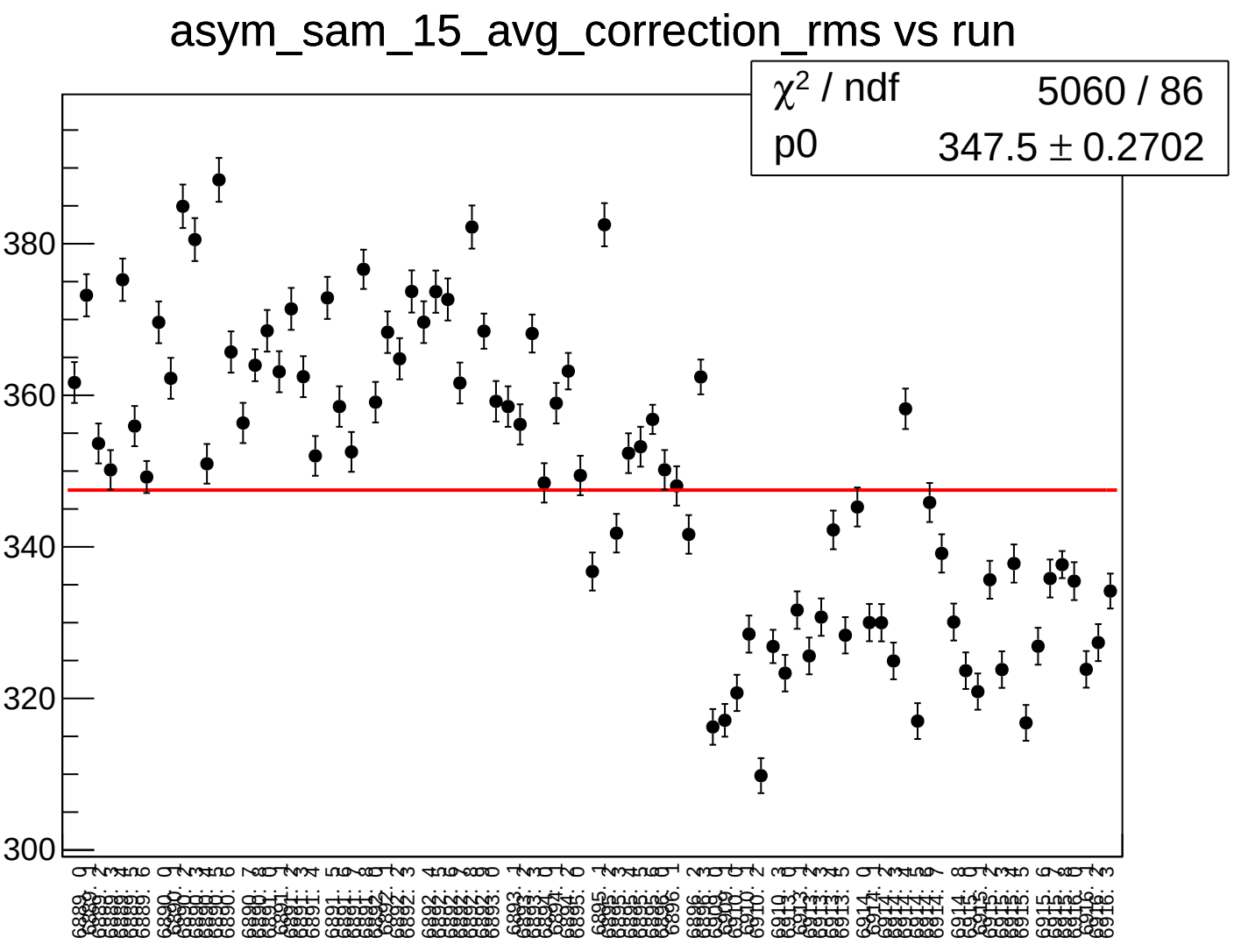

dit_asym_sam_15_avg_mean vs run
χ² / ndf 73.67 / 86
p0 −72.66 ± 70.26
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 311.2
Std Dev 249.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

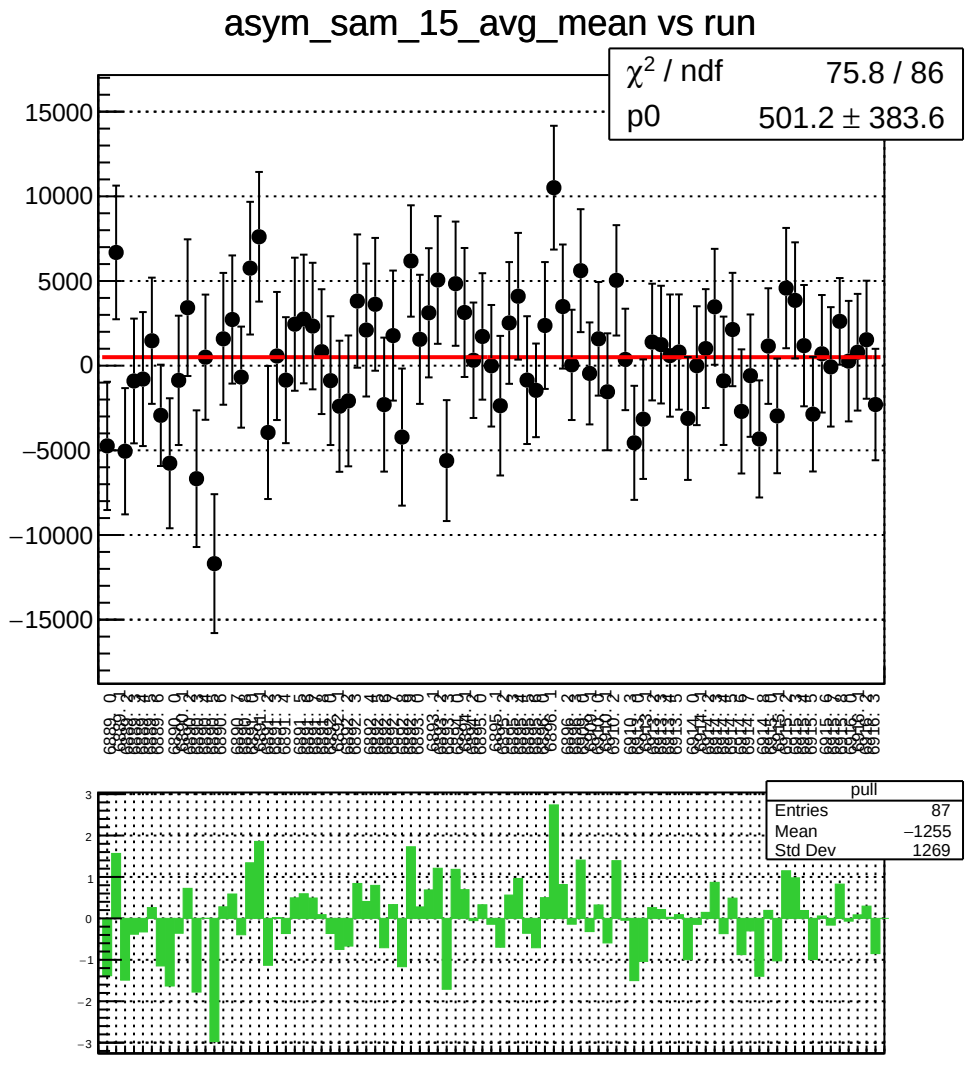

pull1D
Entries 87
Mean 0.003173
Std Dev 0.9202
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

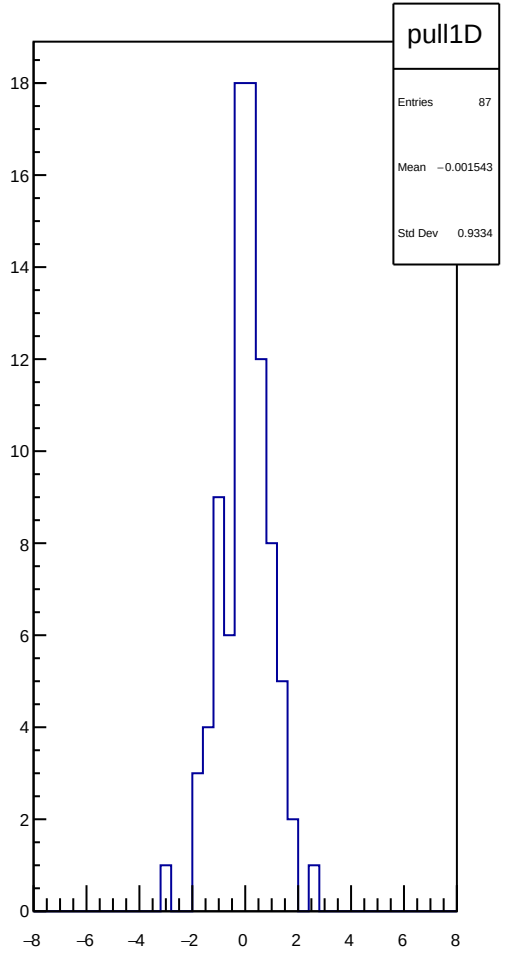

dit_asym_sam_15_avg_rms vs run
χ² / ndf 1958 / 86
p0 63.95 ± 0.04968
76
74
72
70
68
66
64
62
60

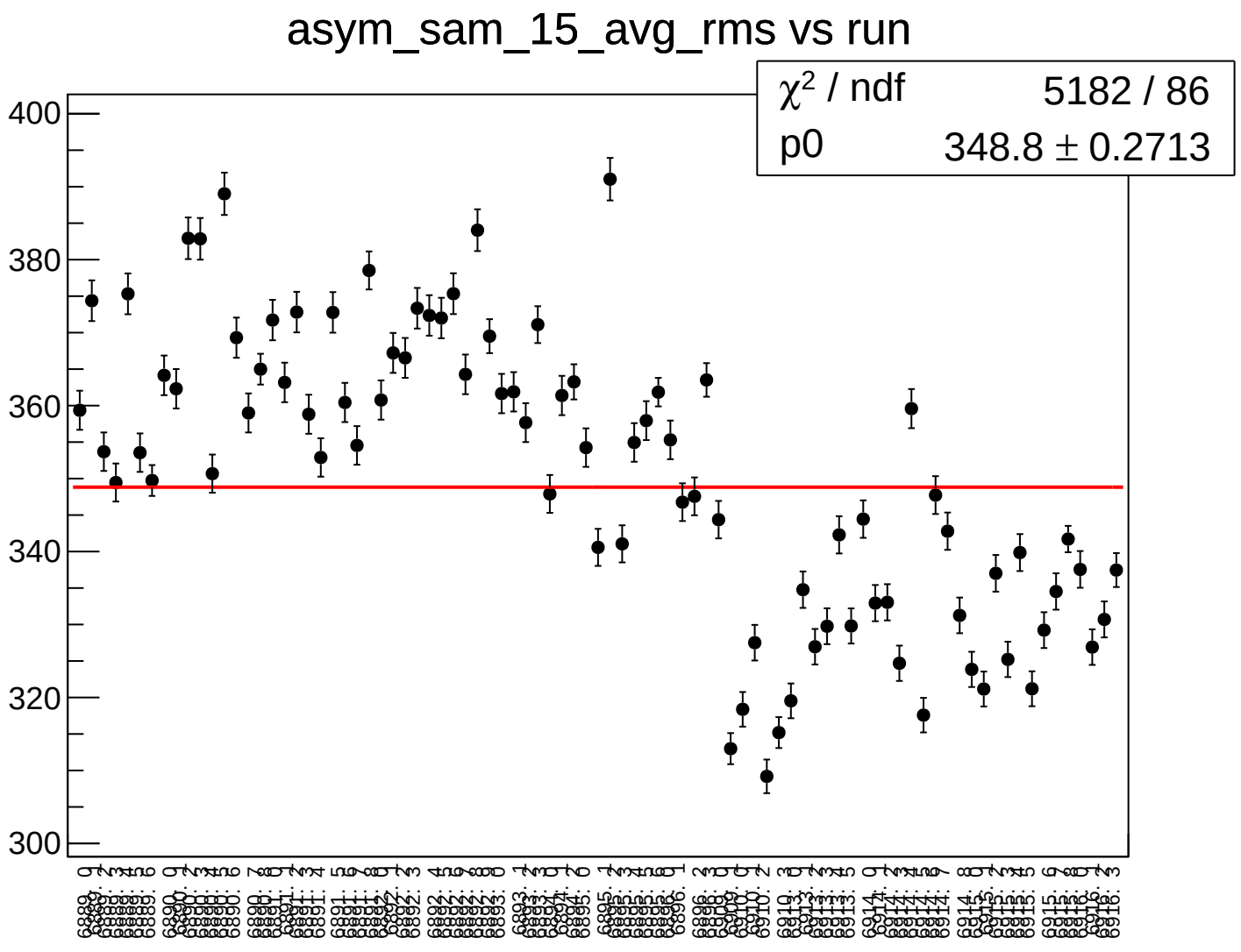

asym_sam_15_avg_correction_mean vs run
χ² / ndf 79.87 / 86
p0 −573.5 ± 382.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −829.2
Std Dev 838.1
3
2
1
0
−1
−2
−3

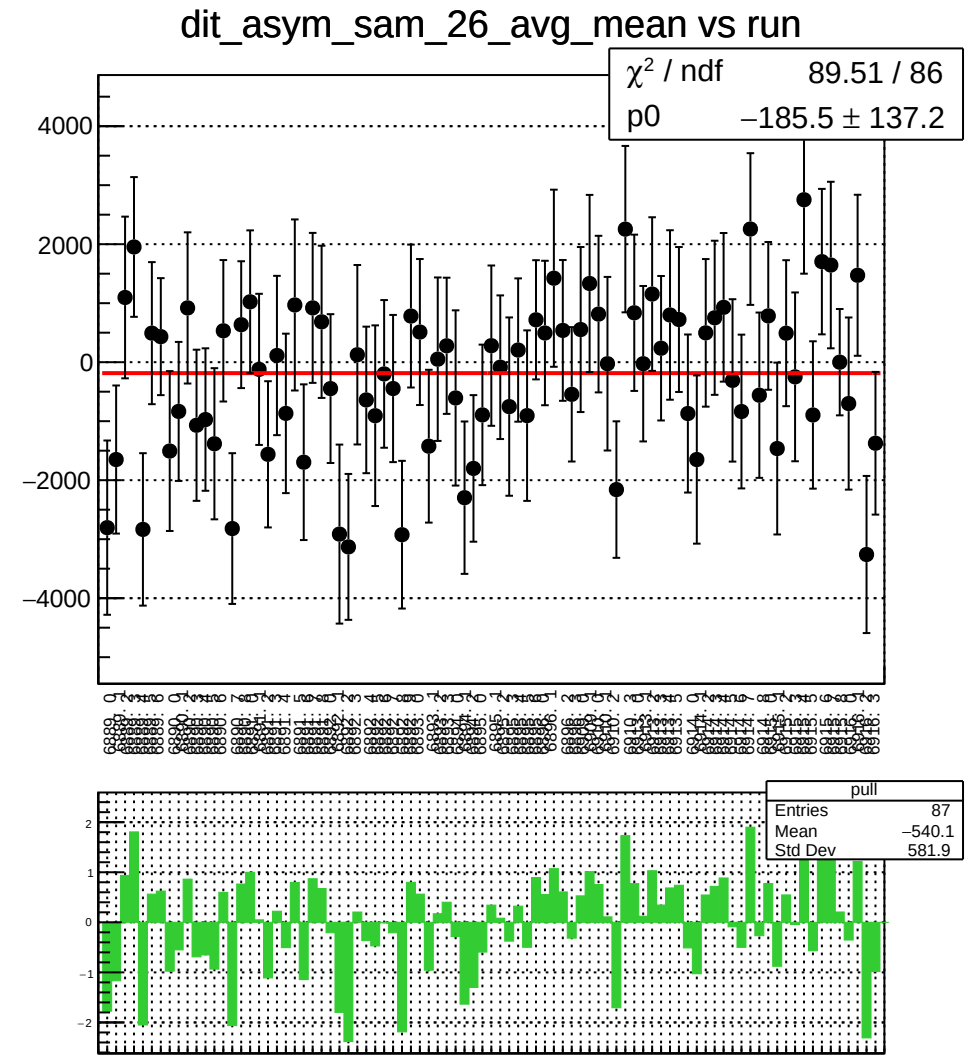

pull1D
Entries 87
Mean 0.002066
Std Dev 0.9582
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

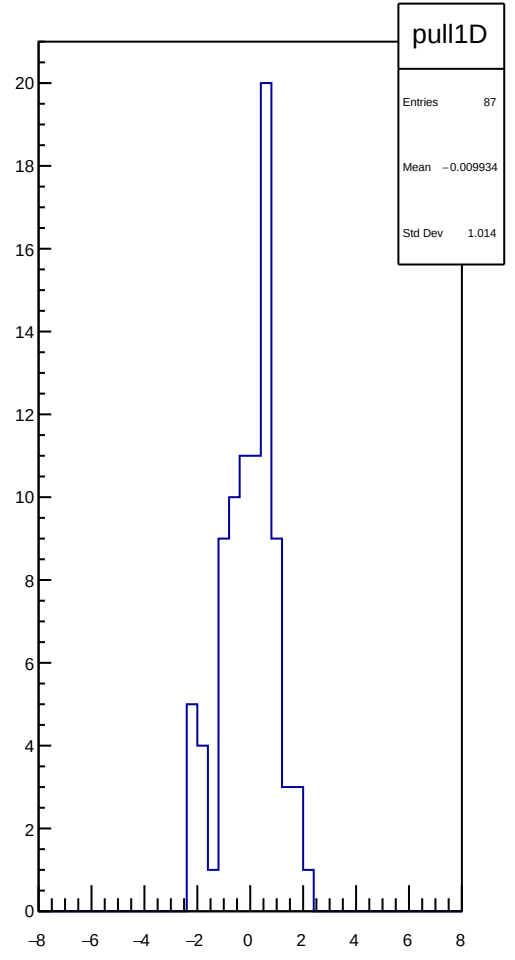

asym_sam_15_avg_correction_rms vs run
χ^2 / ndf 5060 / 86
p0 347.5 ± 0.2702
380
360
340
320
300

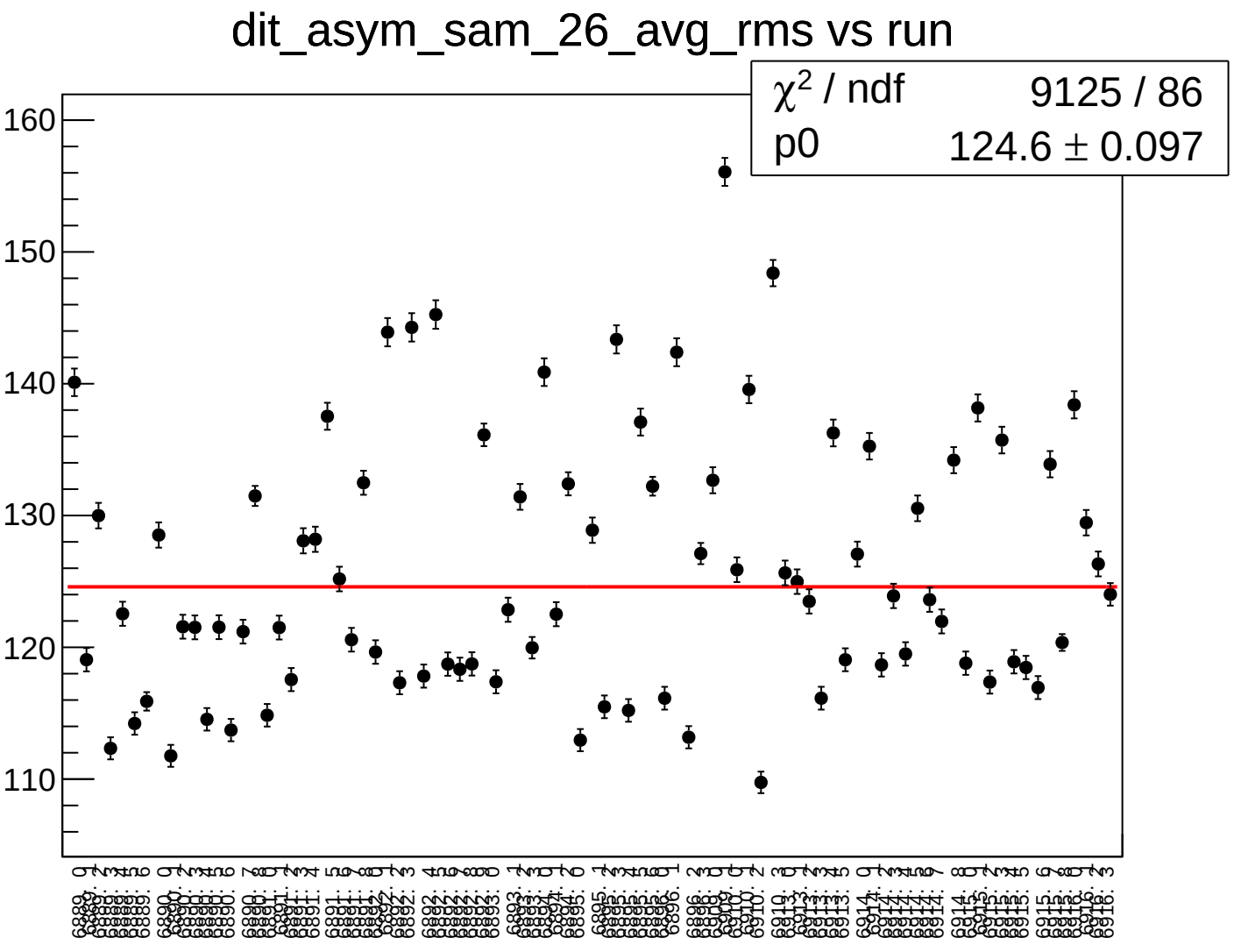

asym_sam_15_avg_mean vs run
χ² / ndf 75.8 / 86
p0 501.2 ± 383.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −1255
Std Dev 1269
3
2
1
0
−1
−2
−3

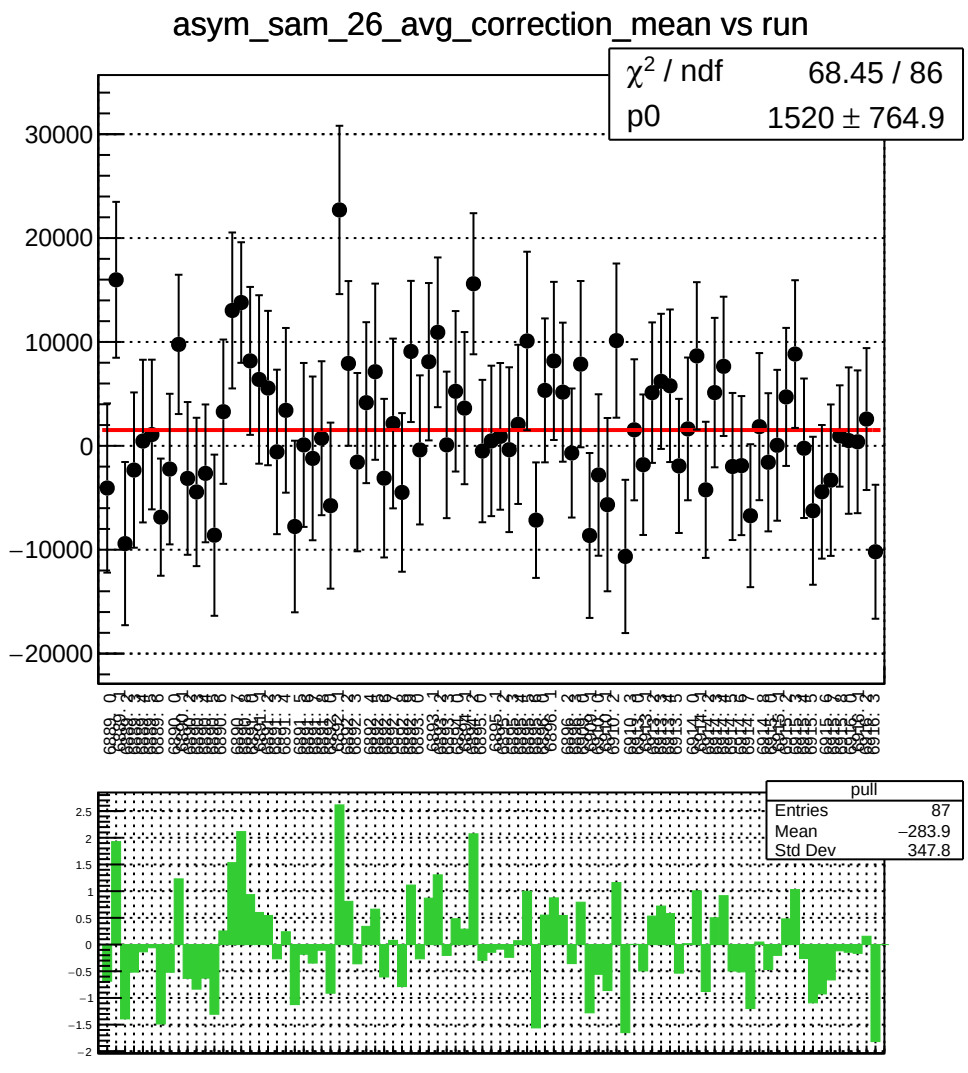

pull1D
Entries 87
Mean −0.001543
Std Dev 0.9334
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

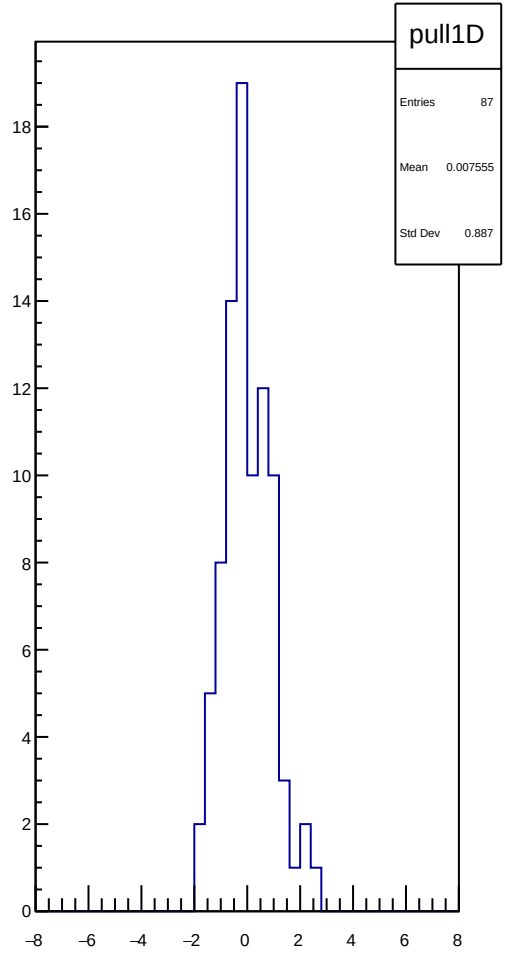

asym_sam_15_avg_rms vs run
χ² / ndf 5182 / 86
p0 348.8 ± 0.2713
400
380
360
340
320
300

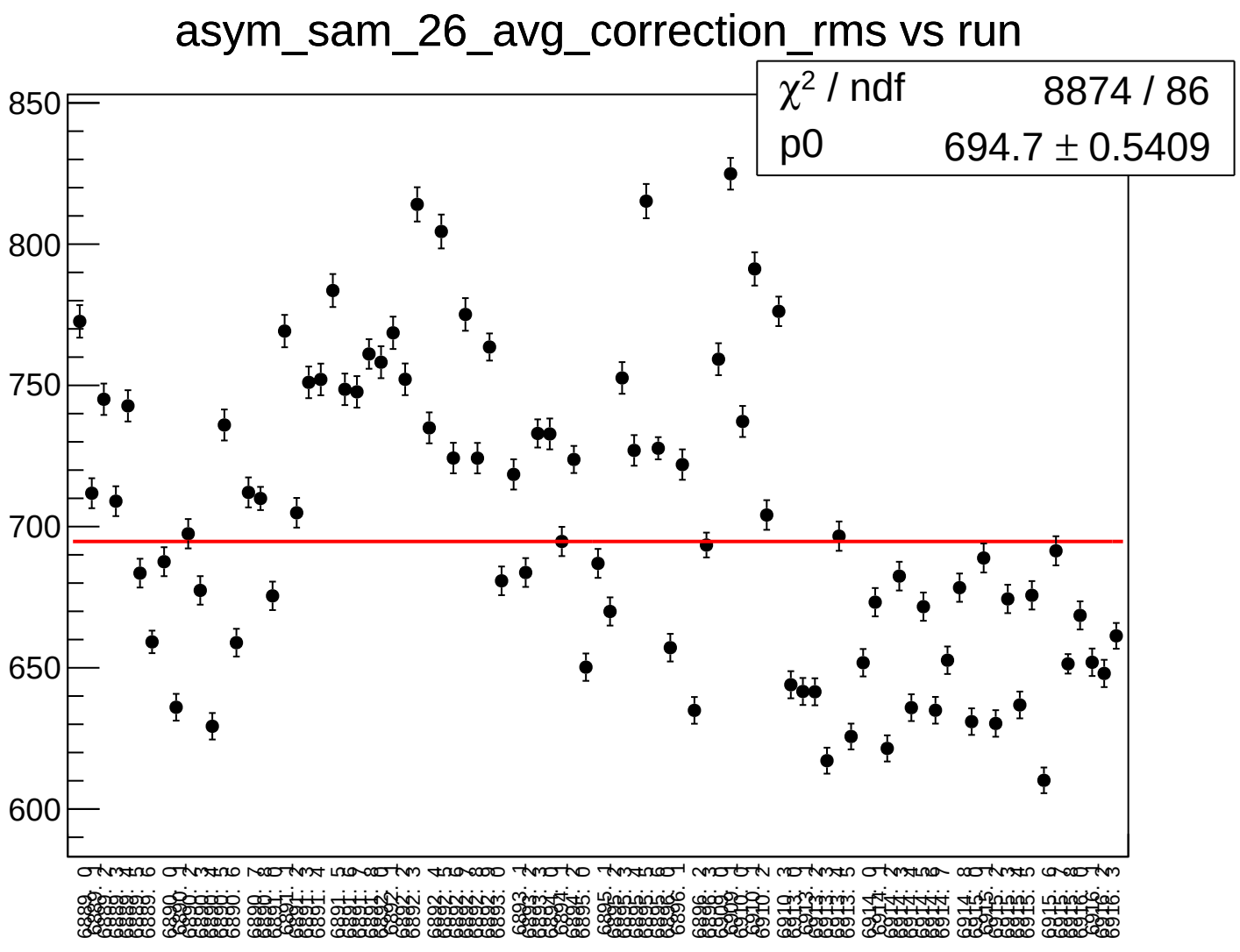

dit_asym_sam_26_avg_mean vs run
χ² / ndf 89.51 / 86
p0 −185.5 ± 137.2
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −540.1
Std Dev 581.9
2
1
0
−1
−2

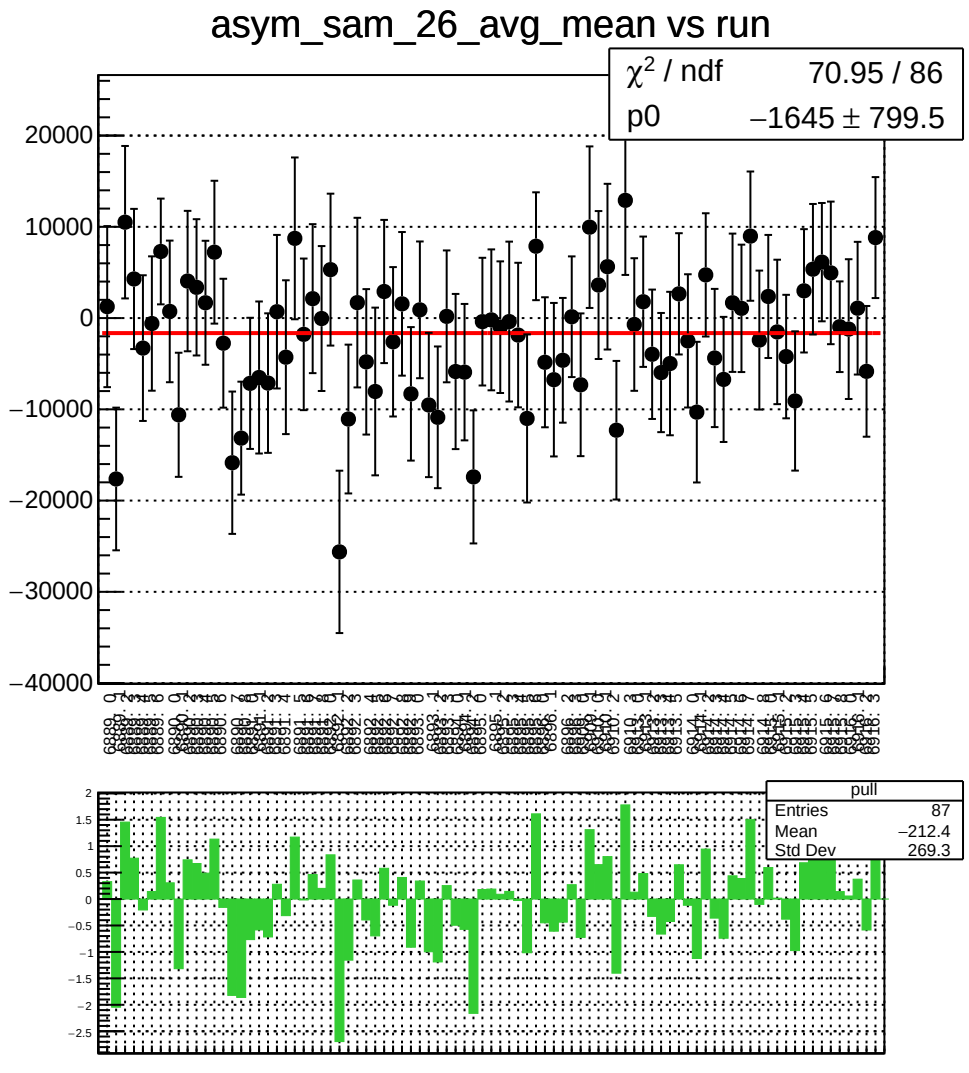

pull1D
Entries 87
Mean −0.009934
Std Dev 1.014
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

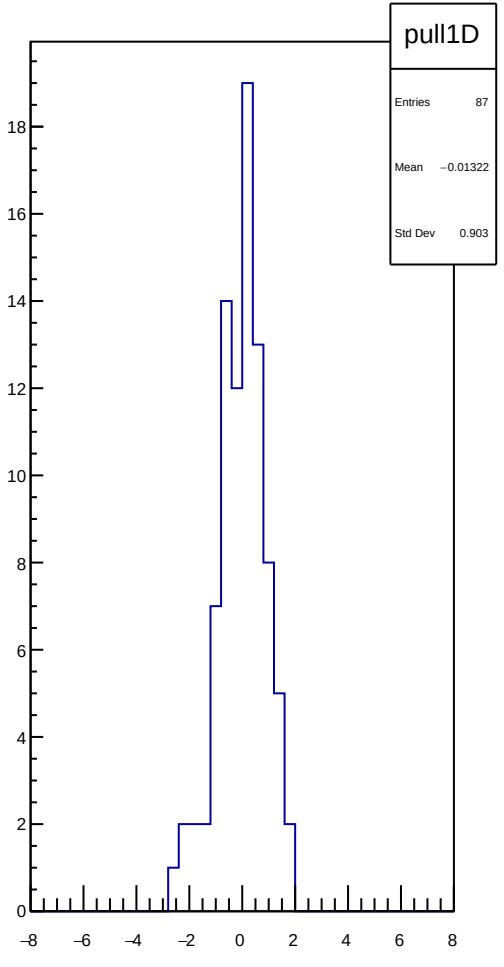

dit_asym_sam_26_avg_rms vs run
χ² / ndf 9125 / 86
p0 124.6 ± 0.097
160
150
140
130
120
110

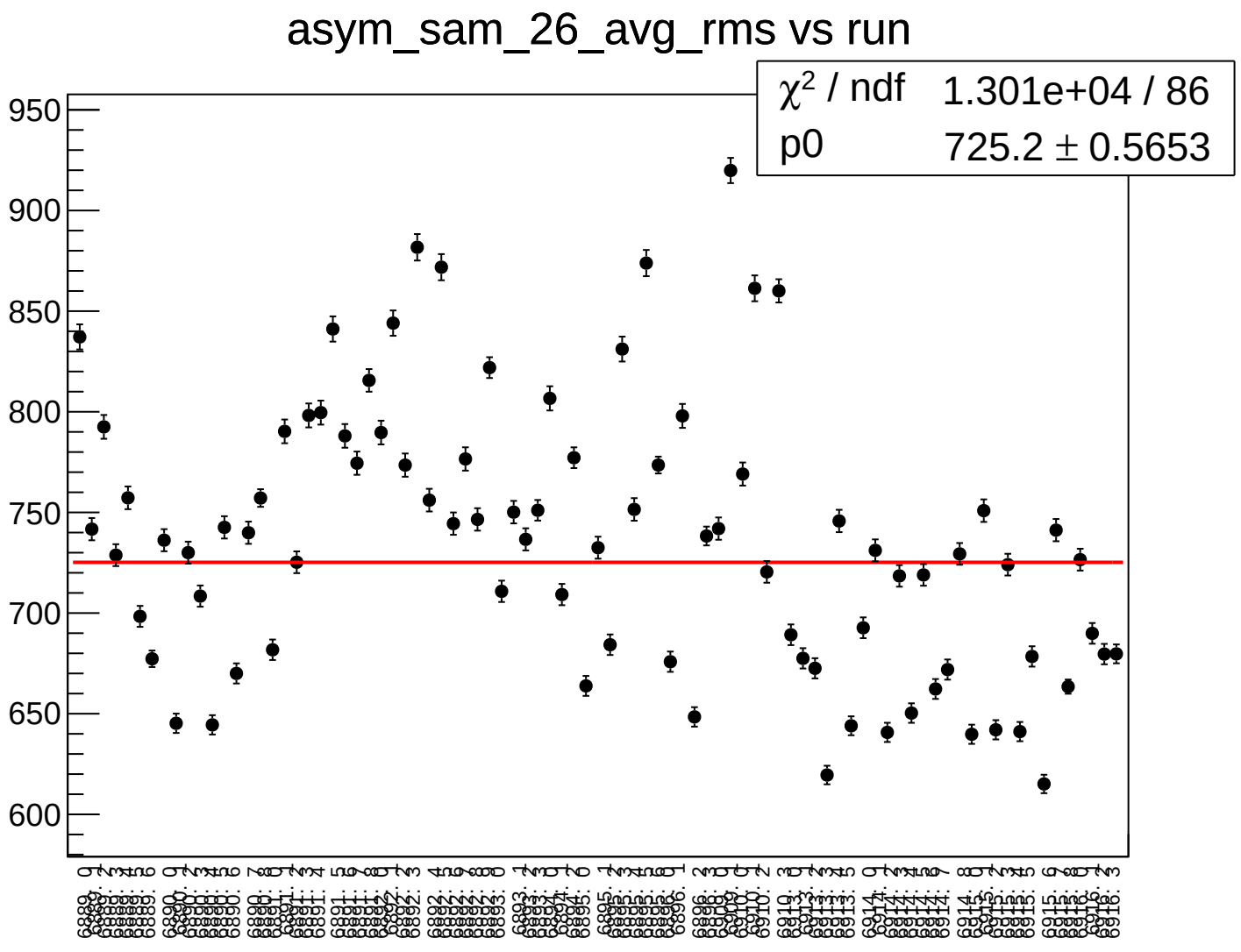

asym_sam_26_avg_correction_mean vs run
χ² / ndf 68.45 / 86
p0 1520 ± 764.9
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −283.9
Std Dev 347.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

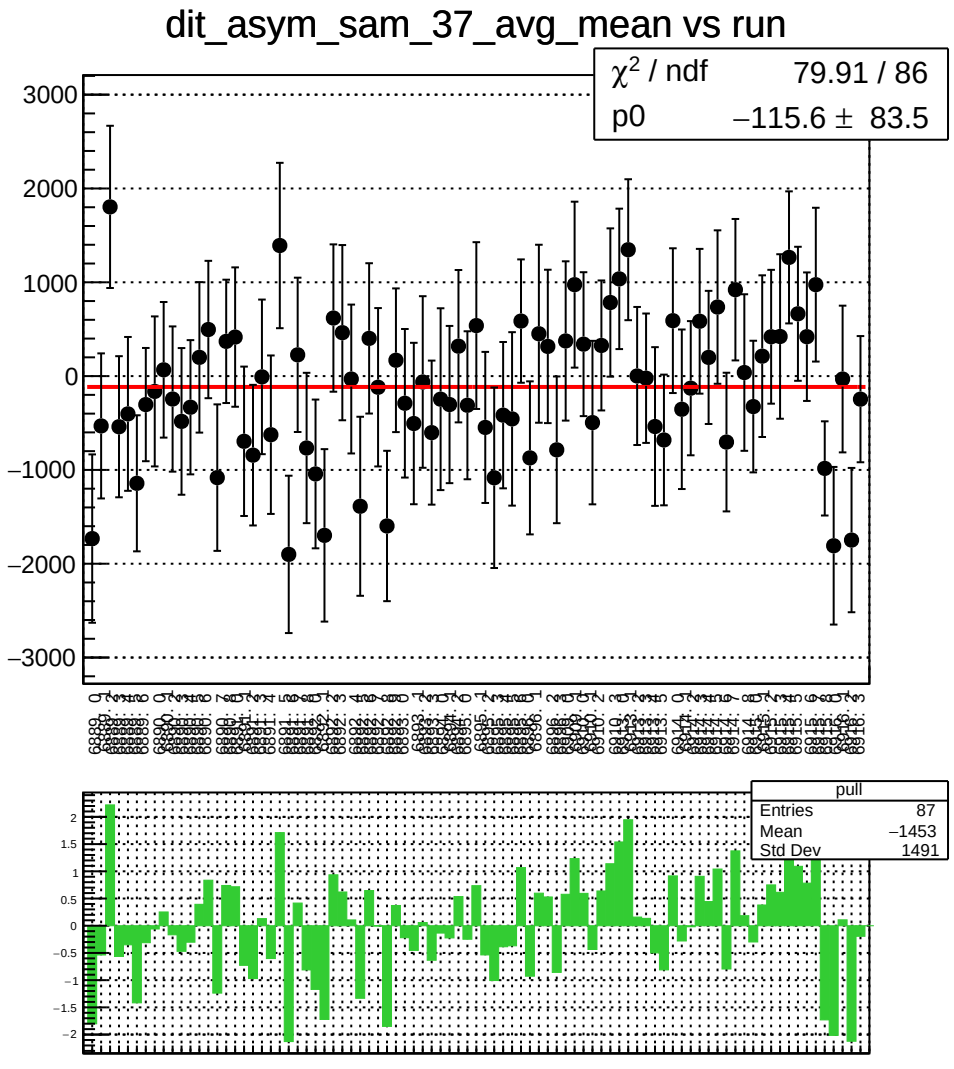

pull1D
Entries 87
Mean 0.007555
Std Dev 0.887
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

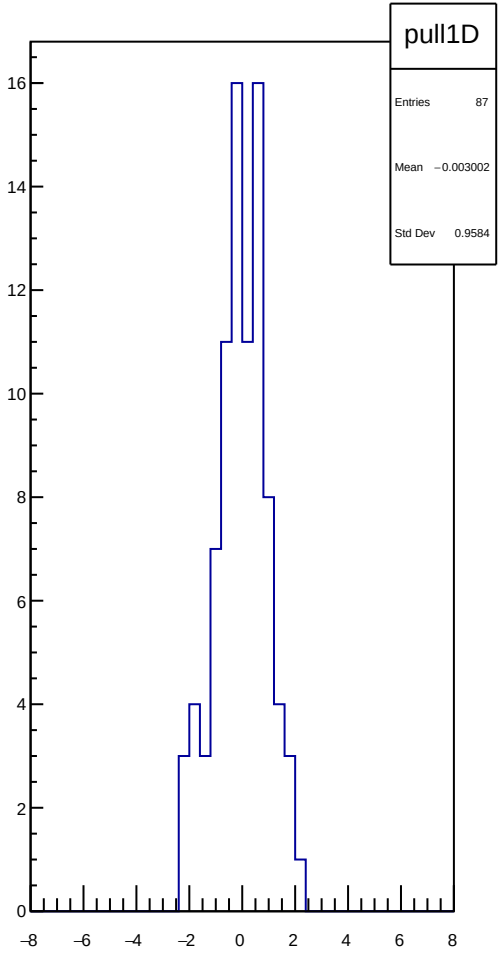

asym_sam_26_avg_correction_rms vs run
χ² / ndf 8874 / 86
p0 694.7 ± 0.5409
850
800
750
700
650
600

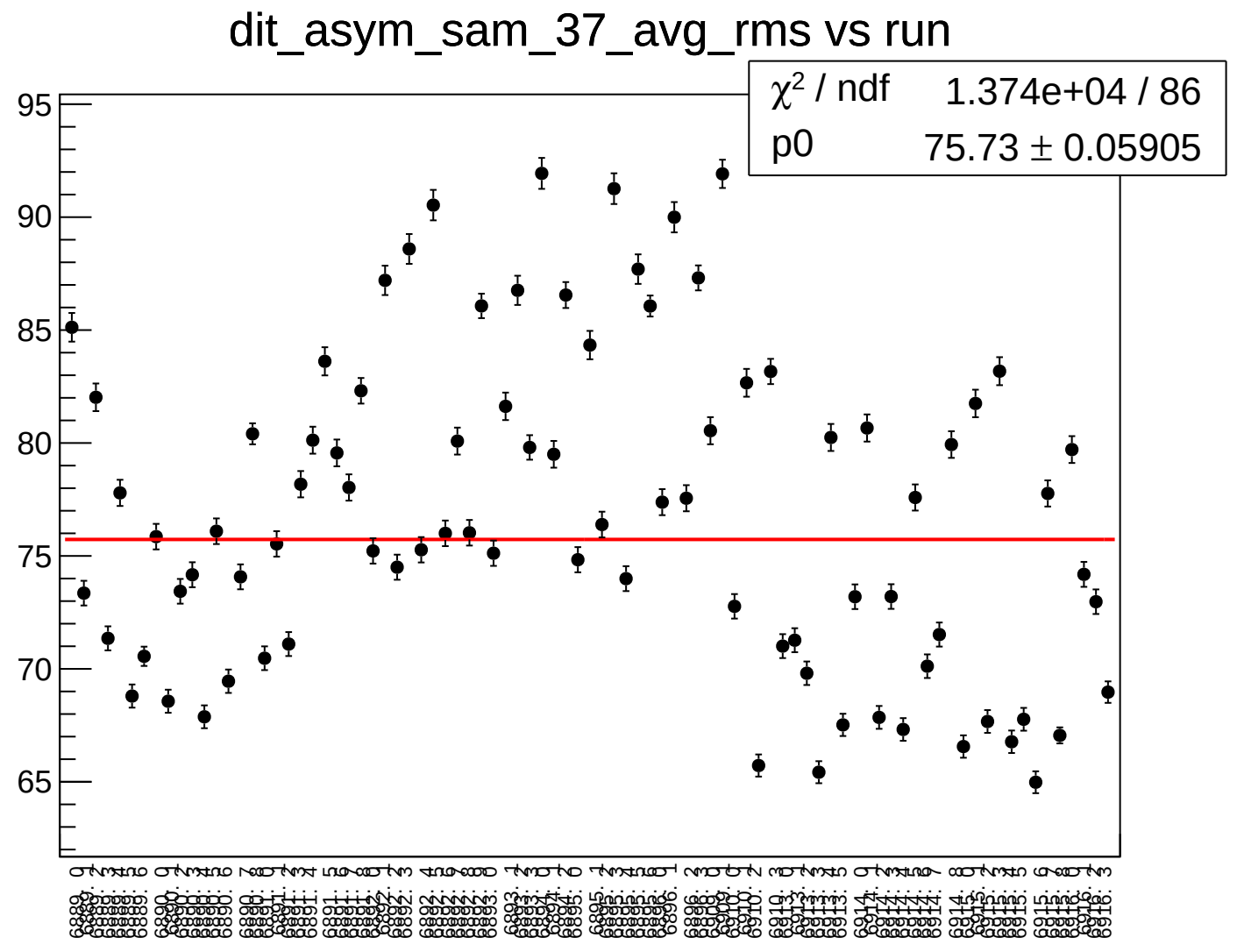

asym_sam_26_avg_mean vs run
χ^2 / ndf 70.95 / 86
p0 −1645 ± 799.5
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean −212.4
Std Dev 269.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

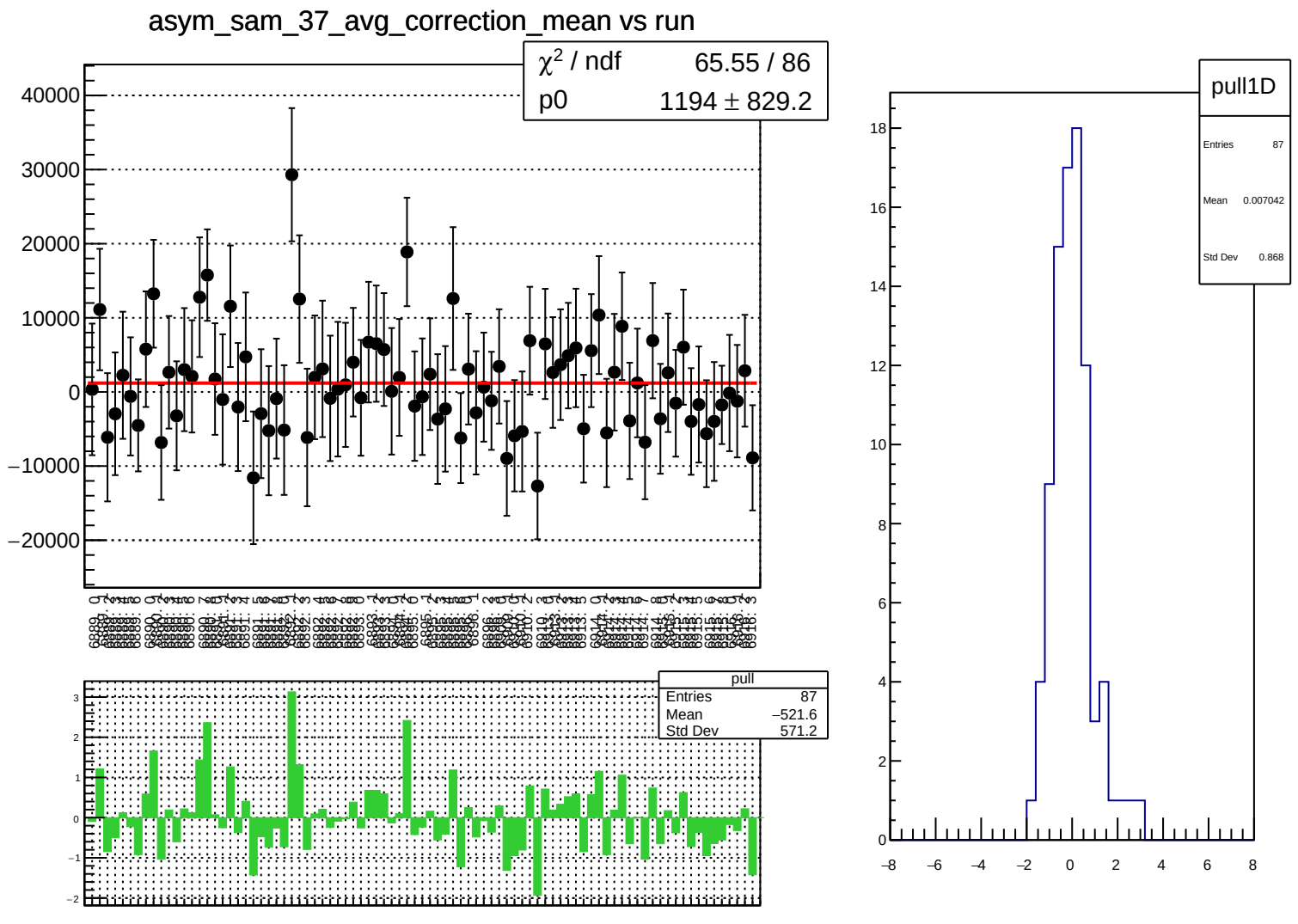

pull1D
Entries 87
Mean −0.01322
Std Dev 0.903
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

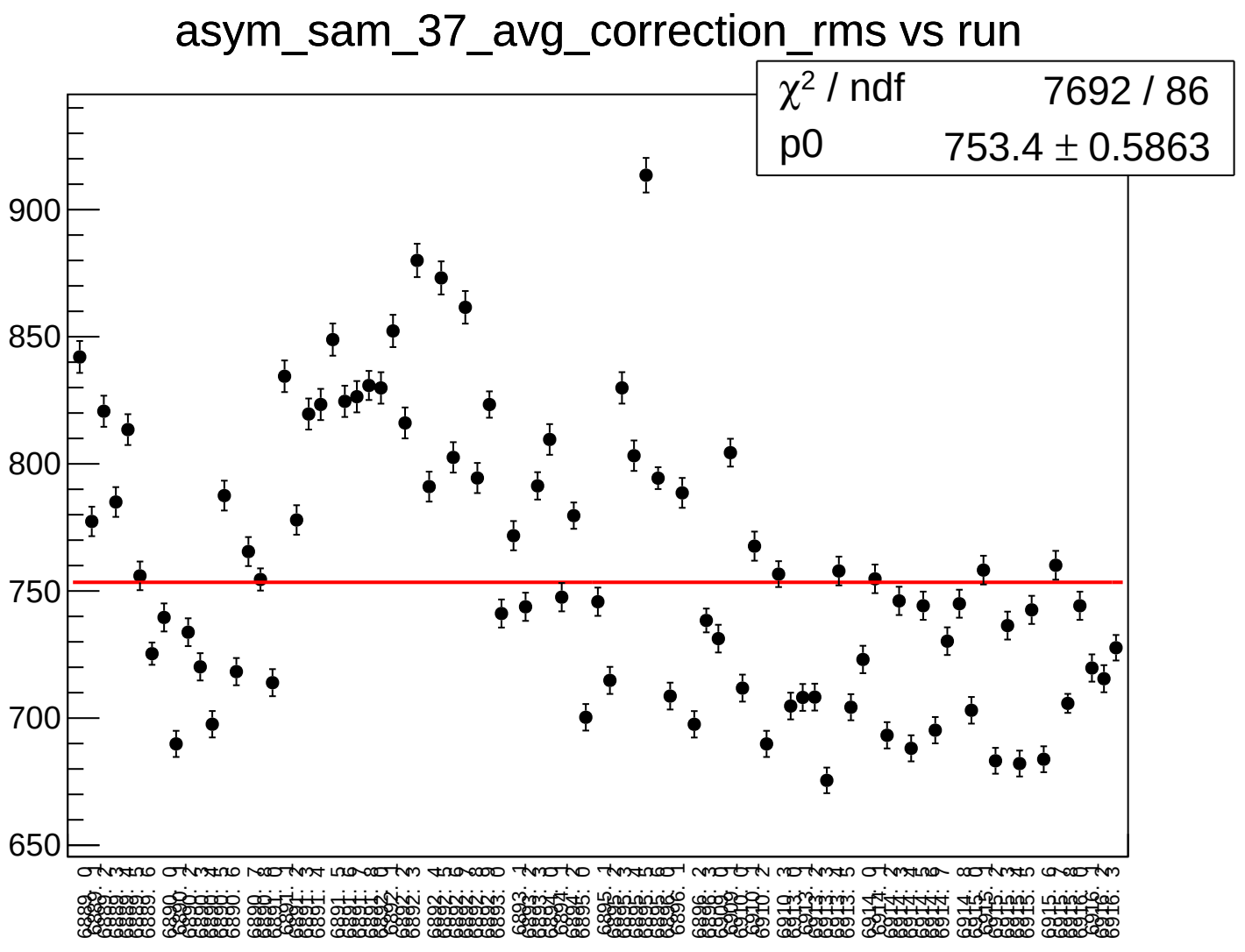

asym_sam_26_avg_rms vs run
χ² / ndf 1.301e+04 / 86
p0 725.2 ± 0.5653
950
900
850
800
750
700
650
600

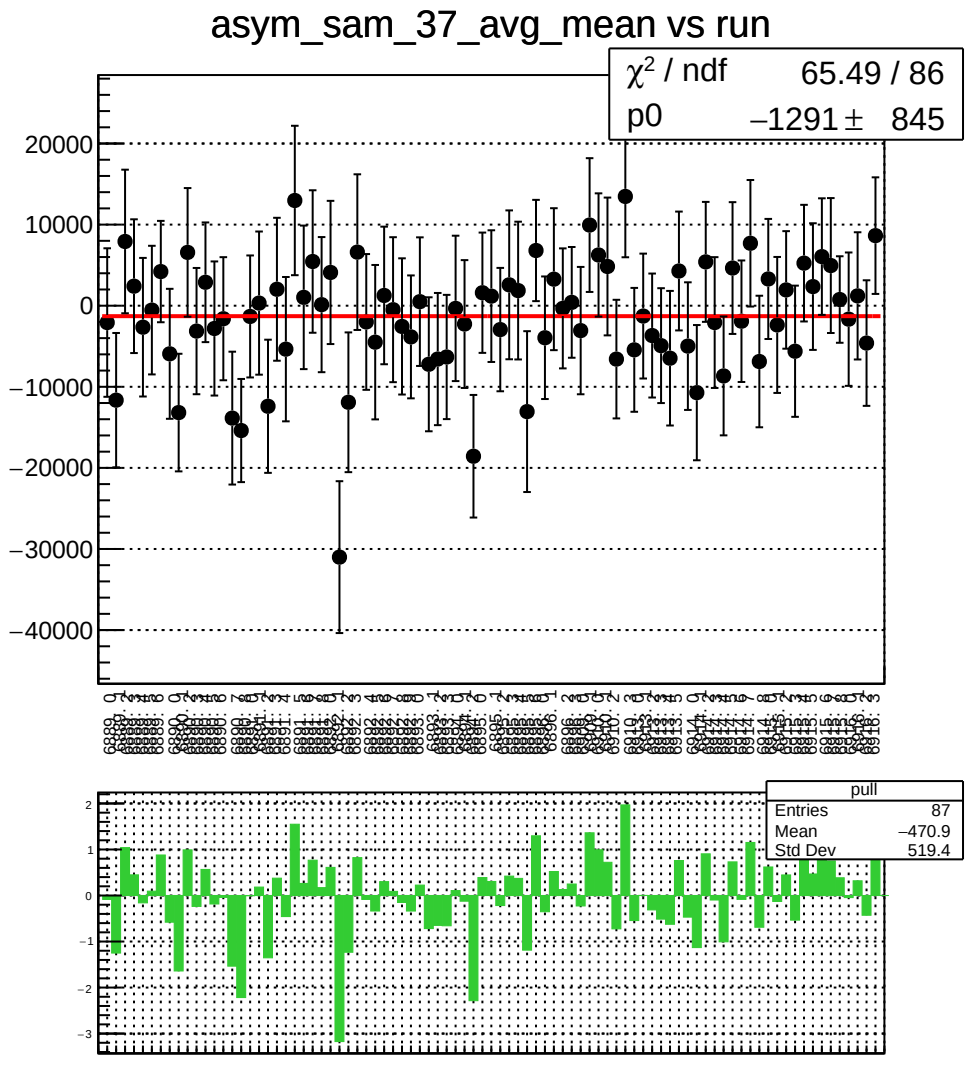

dit_asym_sam_37_avg_mean vs run
χ² / ndf 79.91 / 86
p0 −115.6 ± 83.5
pull
Entries 87
Mean −1453
Std Dev 1491

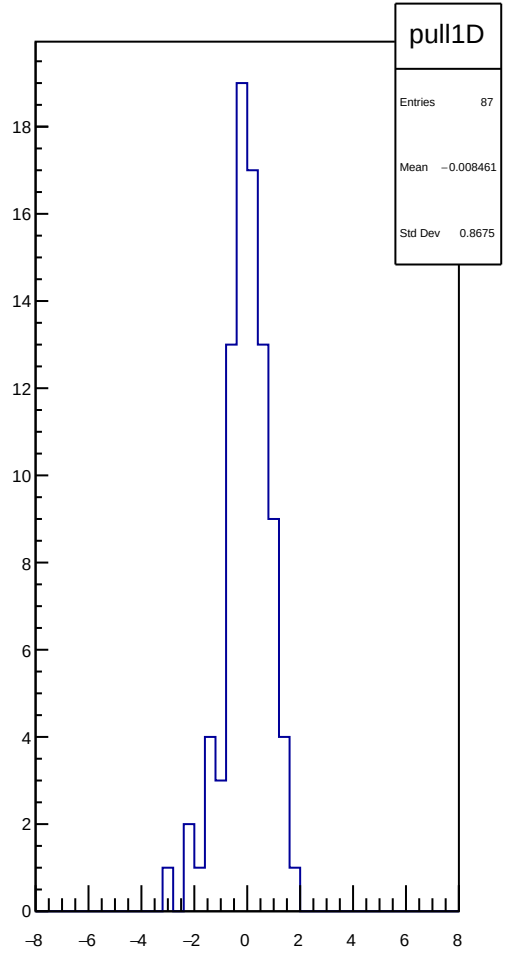

pull1D
Entries 87
Mean −0.003002
Std Dev 0.9584

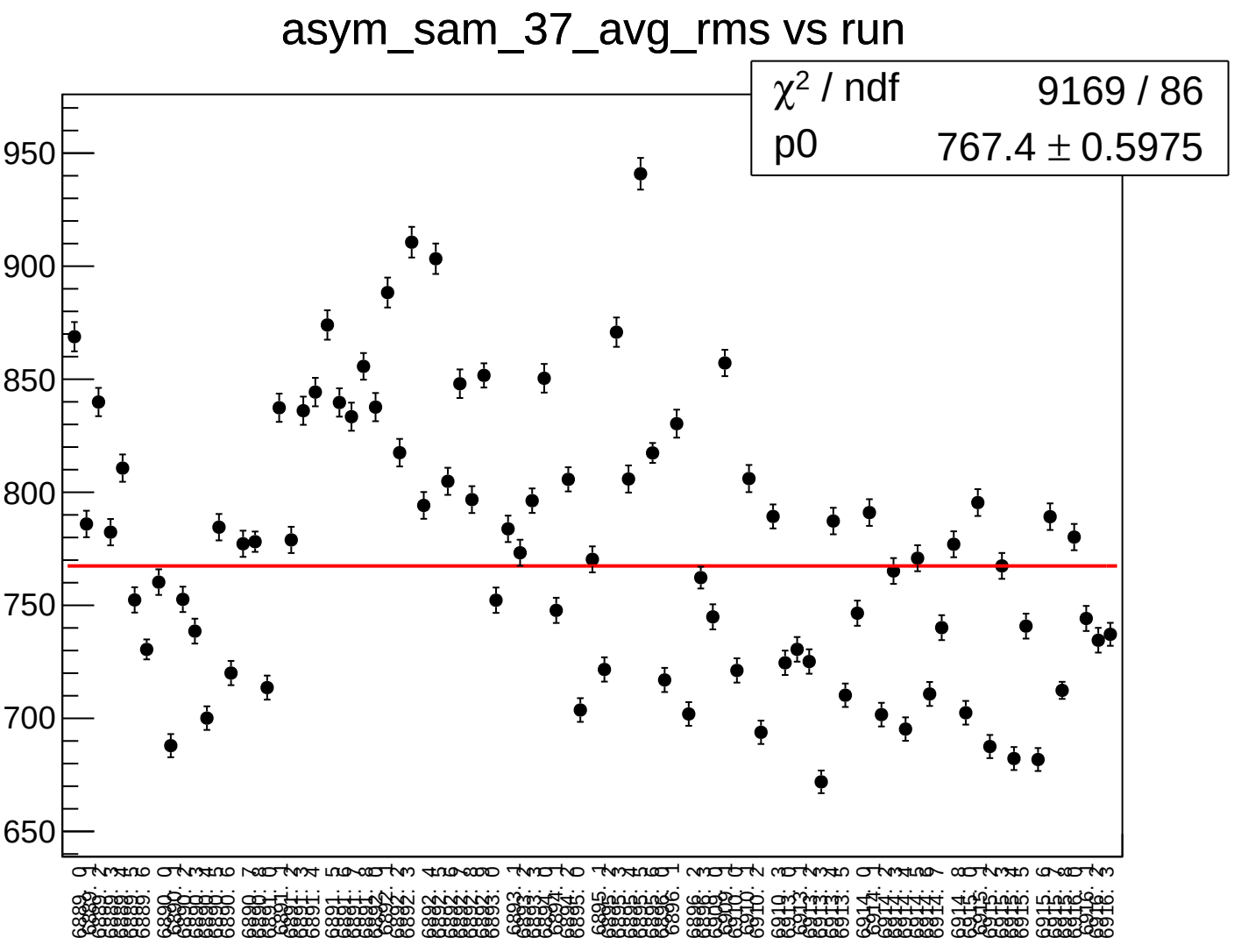

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.374e+04 / 86
p0 75.73 ± 0.05905
95
90
85
80
75
70
65

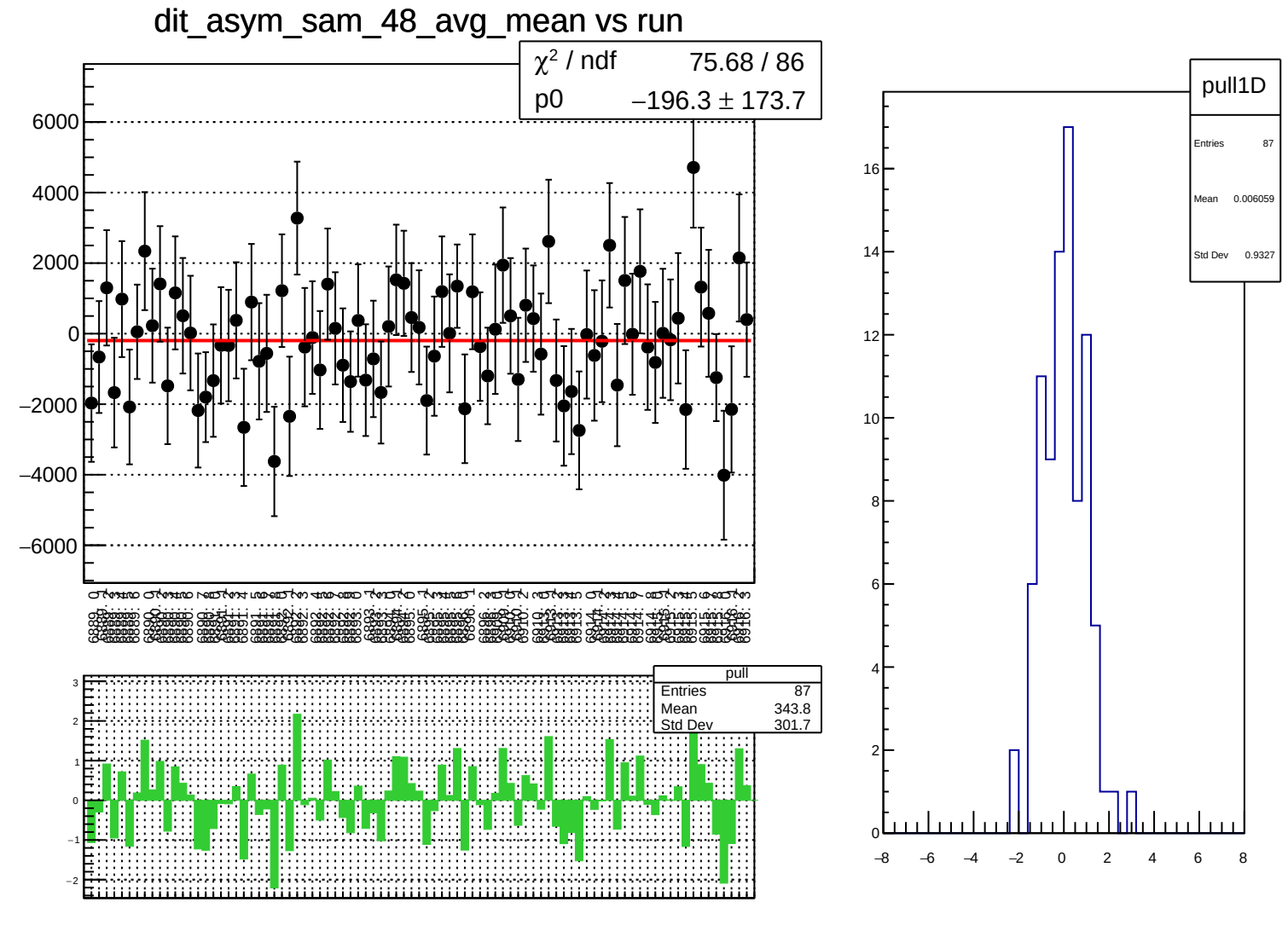

asym_sam_37_avg_correction_mean vs run
χ² / ndf 65.55 / 86
p0 1194 ± 829.2
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −521.6
Std Dev 571.2
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.007042
Std Dev 0.868
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

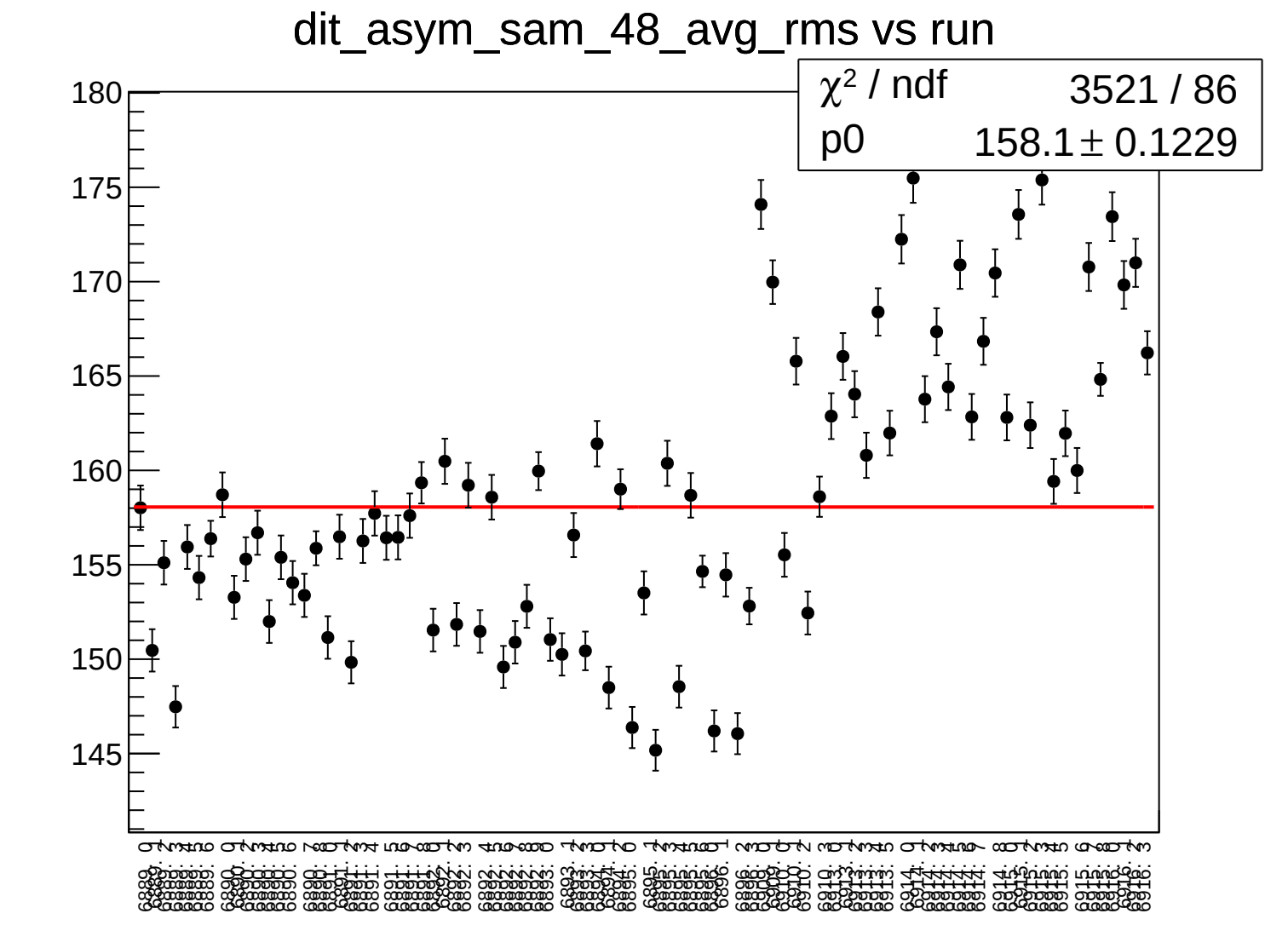

asym_sam_37_avg_correction_rms vs run
χ² / ndf 7692 / 86
p0 753.4 ± 0.5863
900
850
800
750
700
650

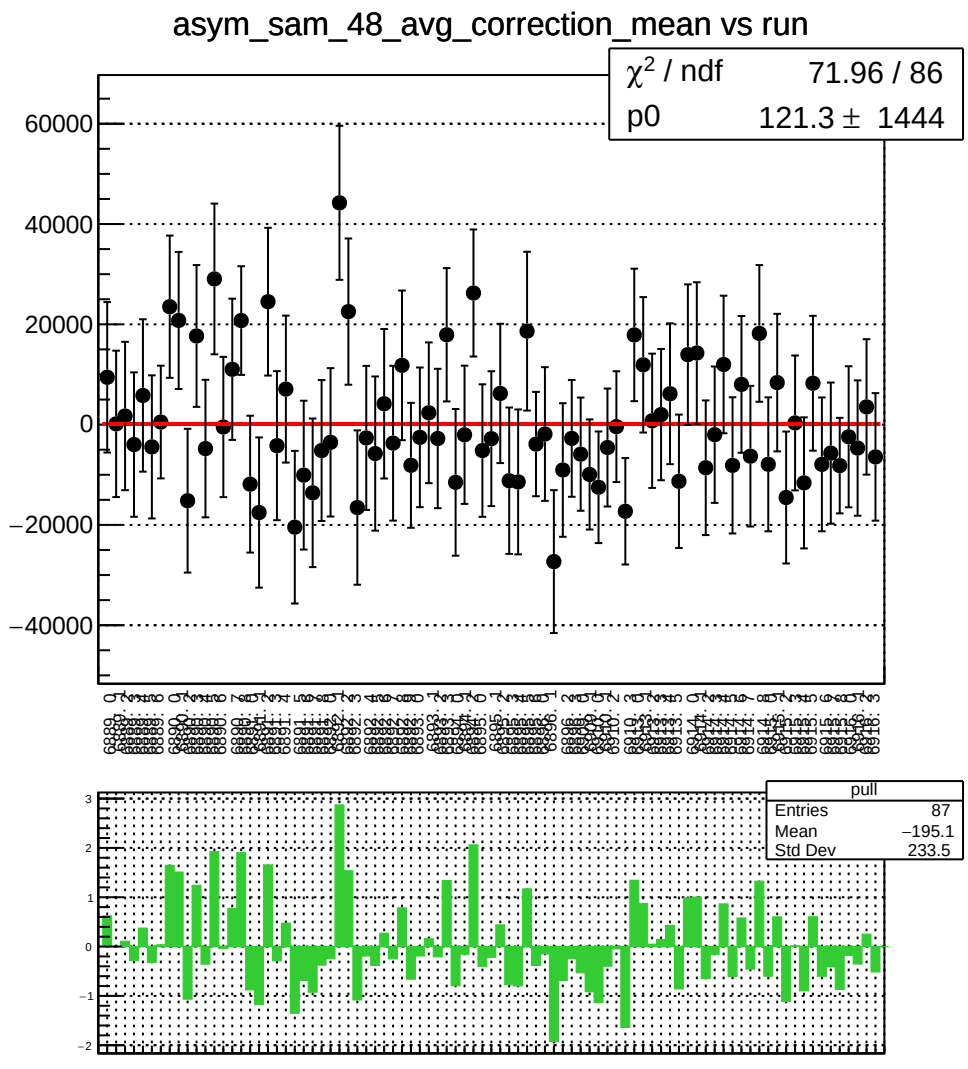

asym_sam_37_avg_mean vs run
χ² / ndf 65.49 / 86
p0 −1291 ± 845
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean −470.9
Std Dev 519.4
2
1
0
−1
−2
−3

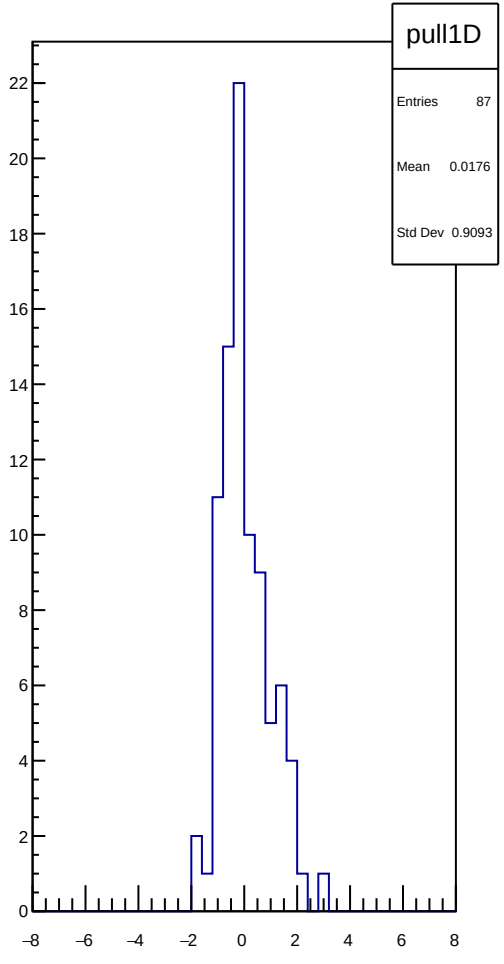

pull1D
Entries 87
Mean −0.008461
Std Dev 0.8675
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

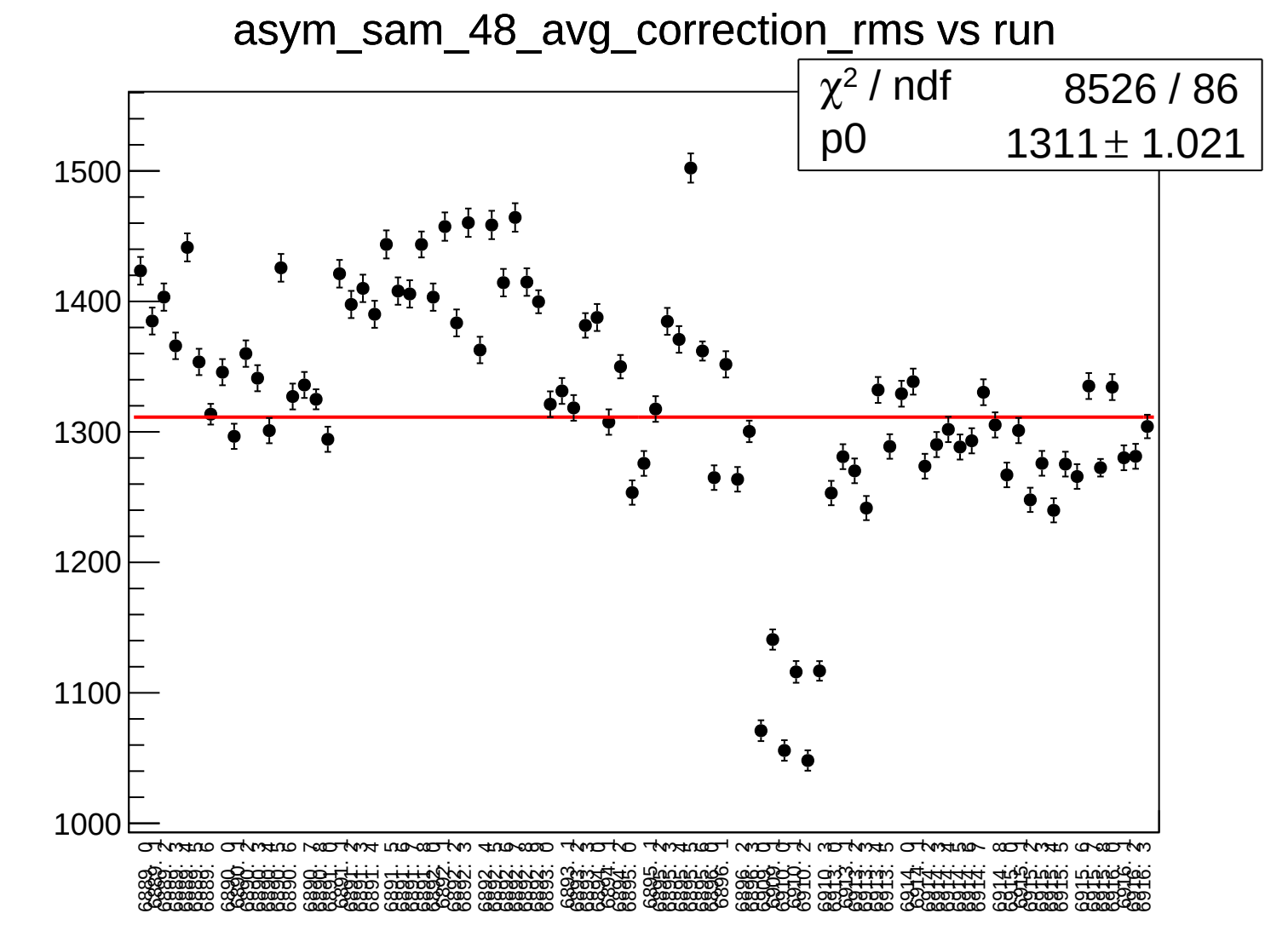

asym_sam_37_avg_rms vs run
χ^2 / ndf 9169 / 86
p0 767.4 ± 0.5975
950
900
850
800
750
700
650

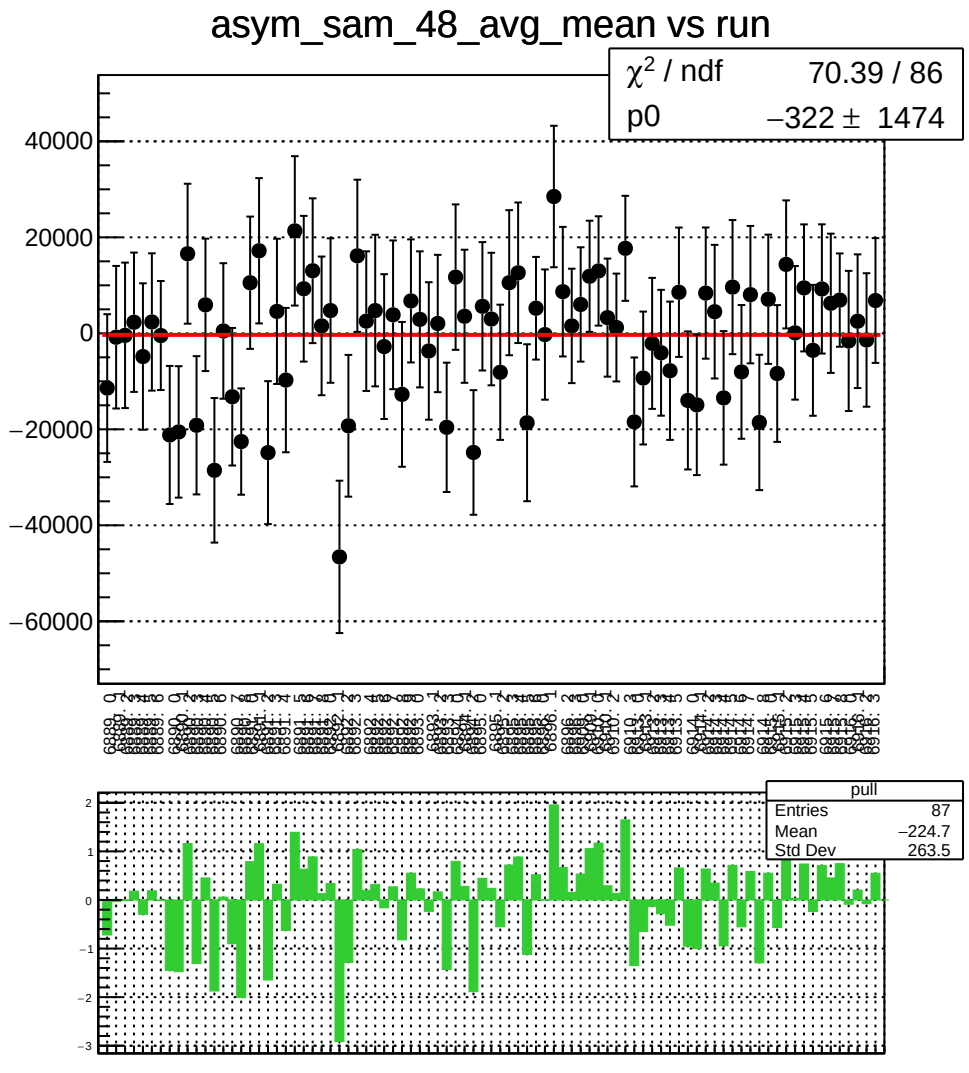

dit_asym_sam_48_avg_mean vs run
χ² / ndf 75.68 / 86
p0 −196.3 ± 173.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 343.8
Std Dev 301.7
3
2
1
0
−1
−2
pull1D
Entries 87
Mean 0.006059
Std Dev 0.9327
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

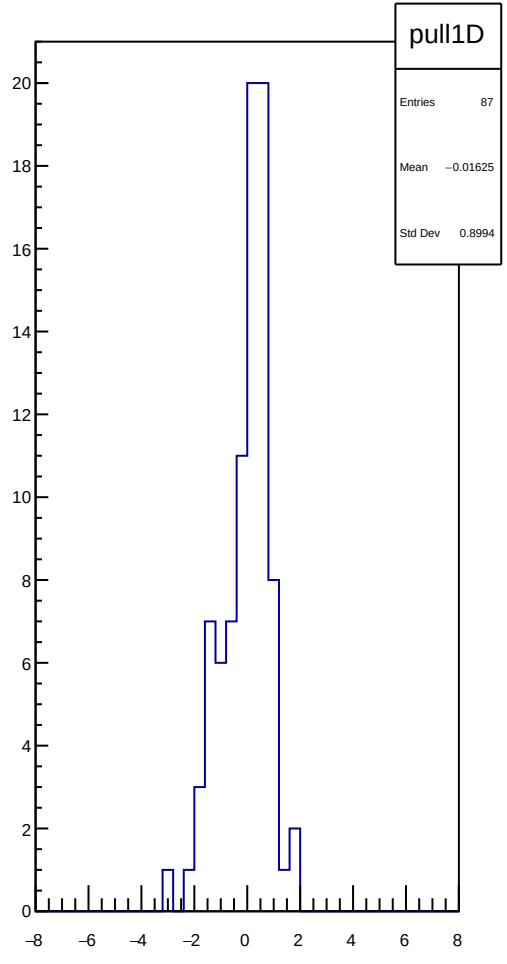

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 3521 / 86
p0 158.1 ± 0.1229
180
175
170
165
160
155
150
145

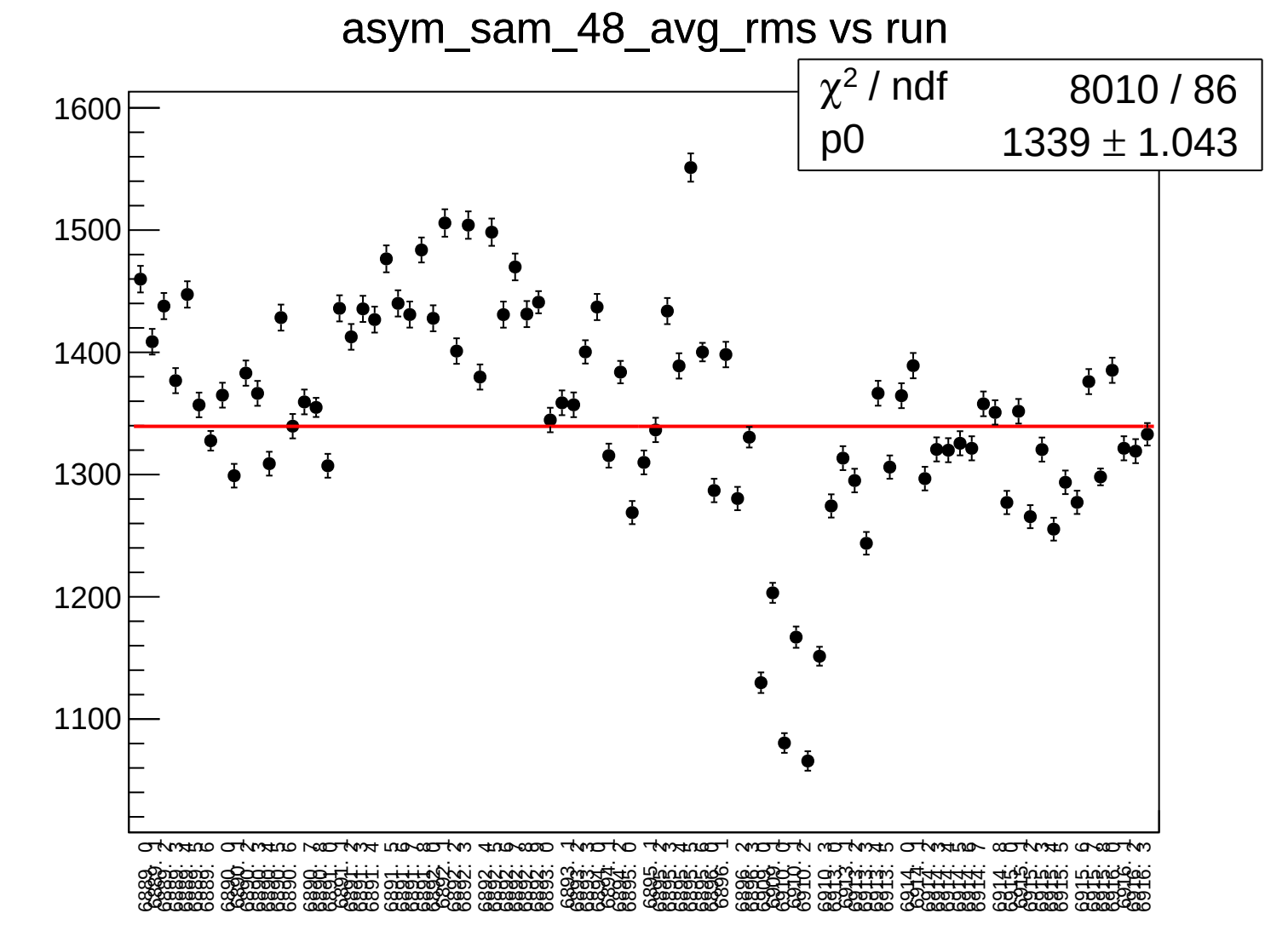

asym_sam_48_avg_correction_mean vs run
χ² / ndf 71.96 / 86
p0 121.3 ± 1444
60000
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −195.1
Std Dev 233.5
3
2
1
0
−1
−2

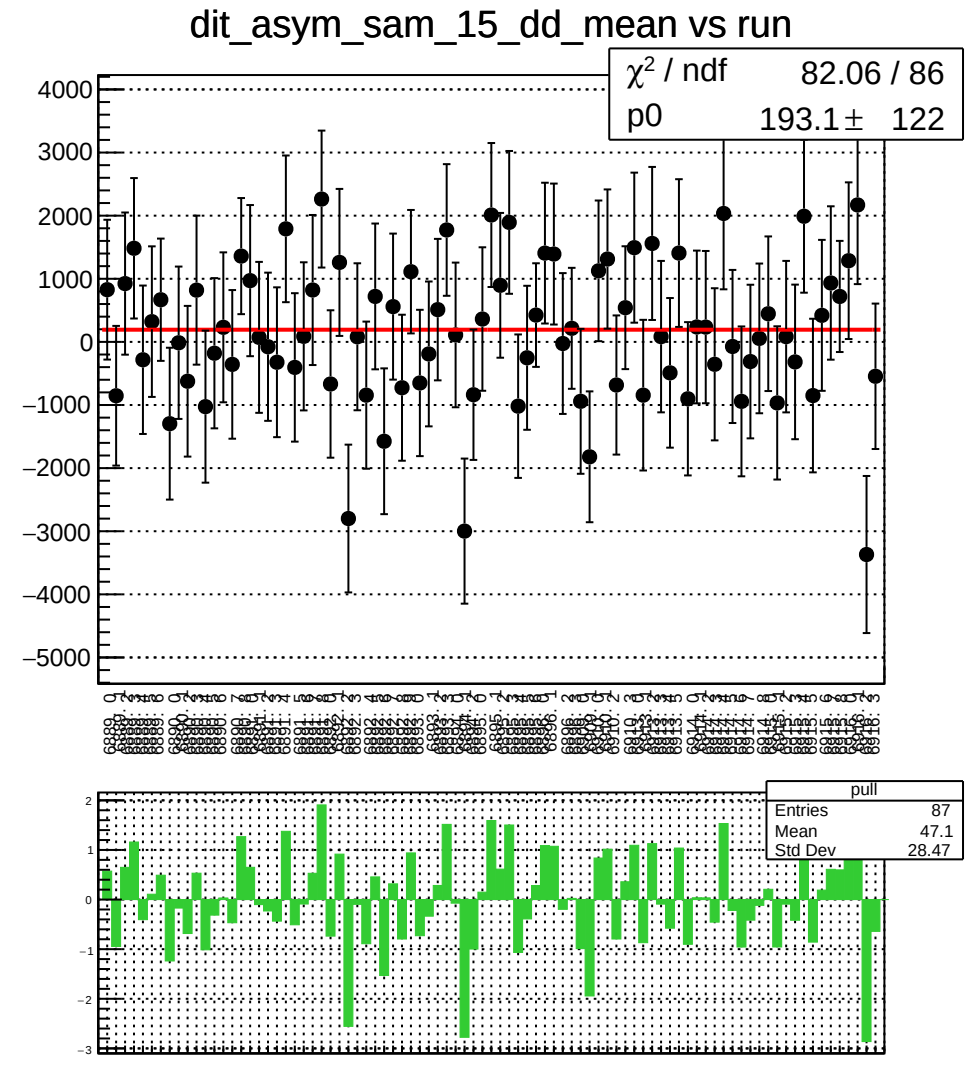

pull1D
Entries 87
Mean 0.0176
Std Dev 0.9093
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

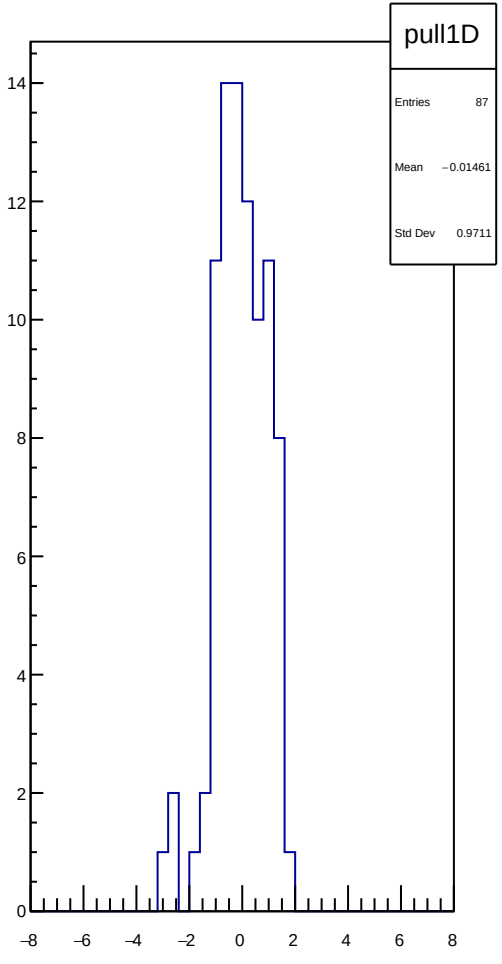

asym_sam_48_avg_correction_rms vs run
χ² / ndf 8526 / 86
p0 1311 ± 1.021
1500
1400
1300
1200
1100
1000

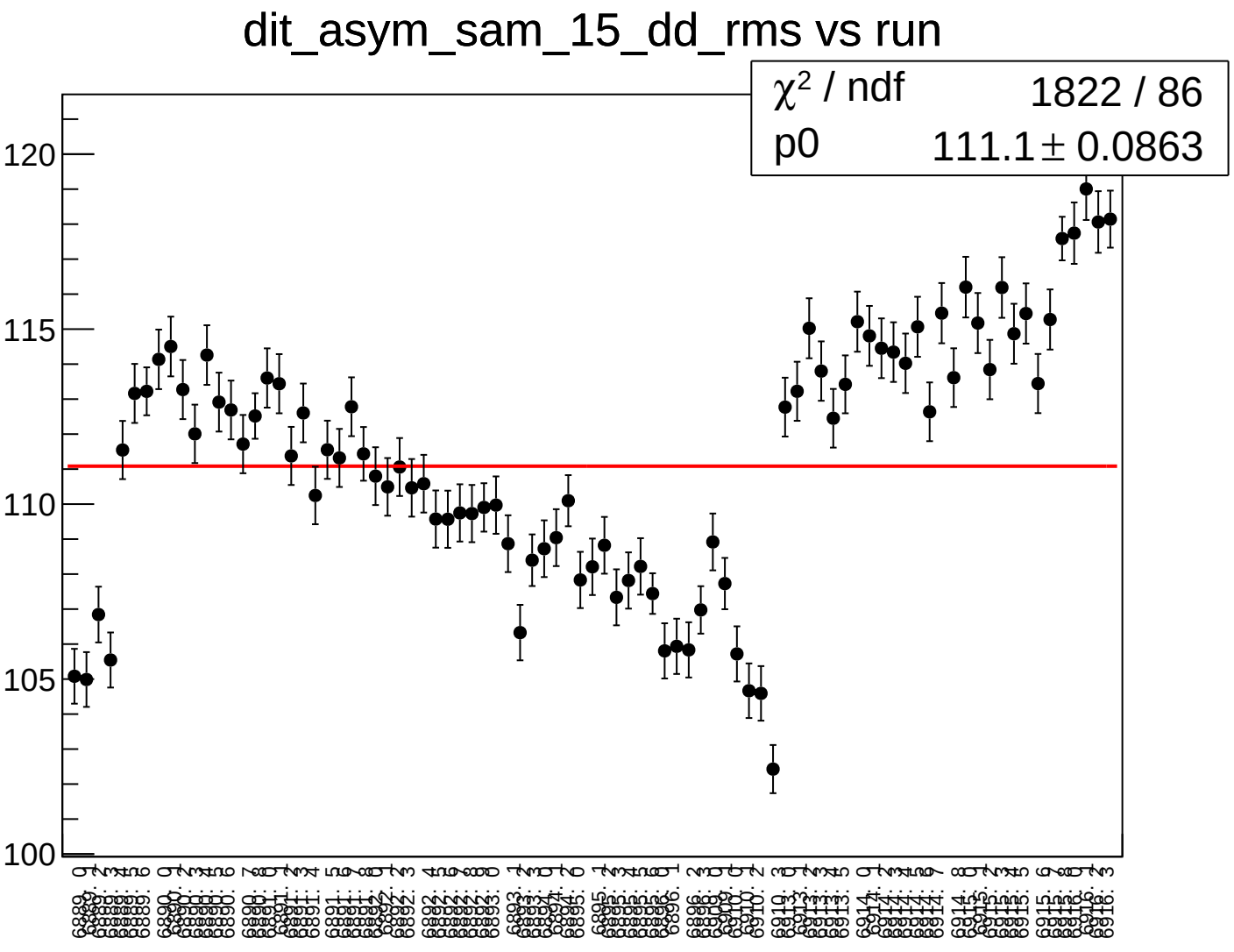

asym_sam_48_avg_mean vs run
χ² / ndf 70.39 / 86
p0 −322 ± 1474
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −224.7
Std Dev 263.5
2
1
0
−1
−2
−3

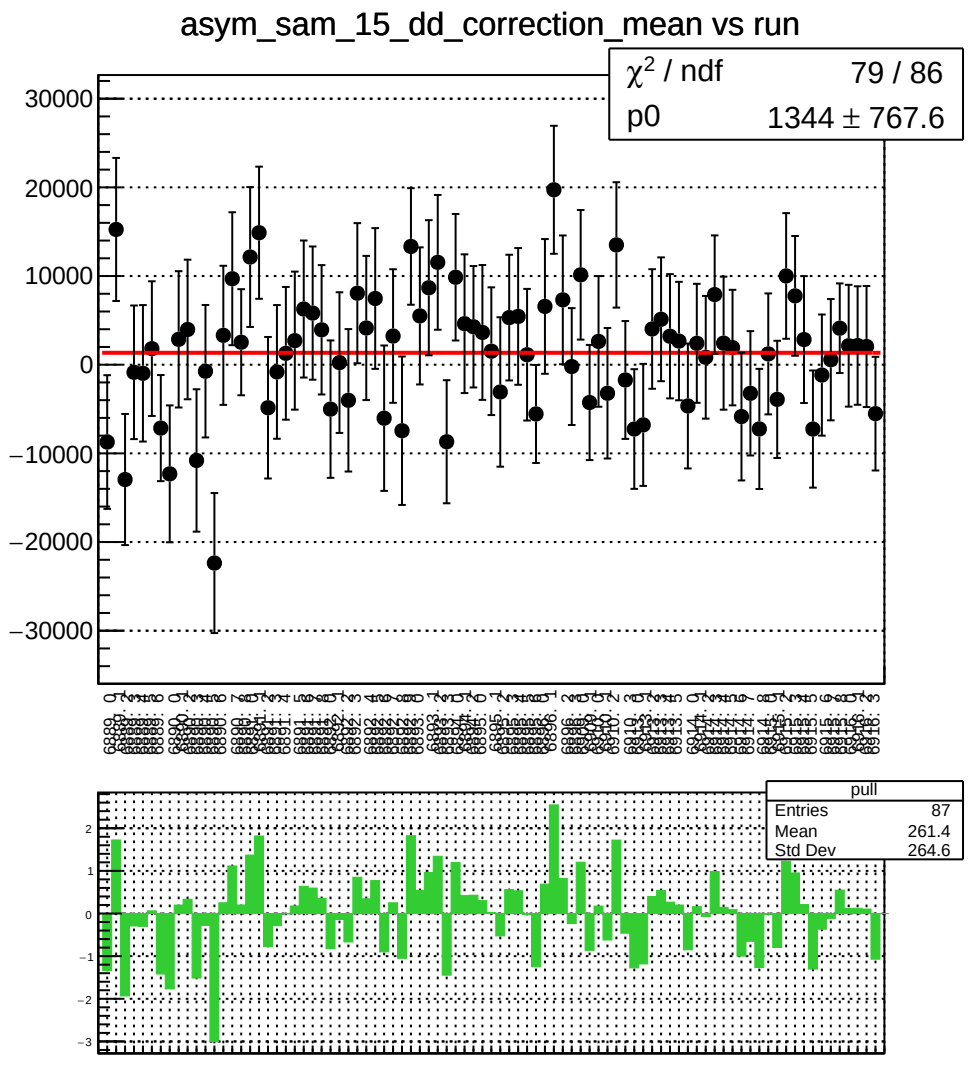

pull1D
Entries 87
Mean −0.01625
Std Dev 0.8994
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

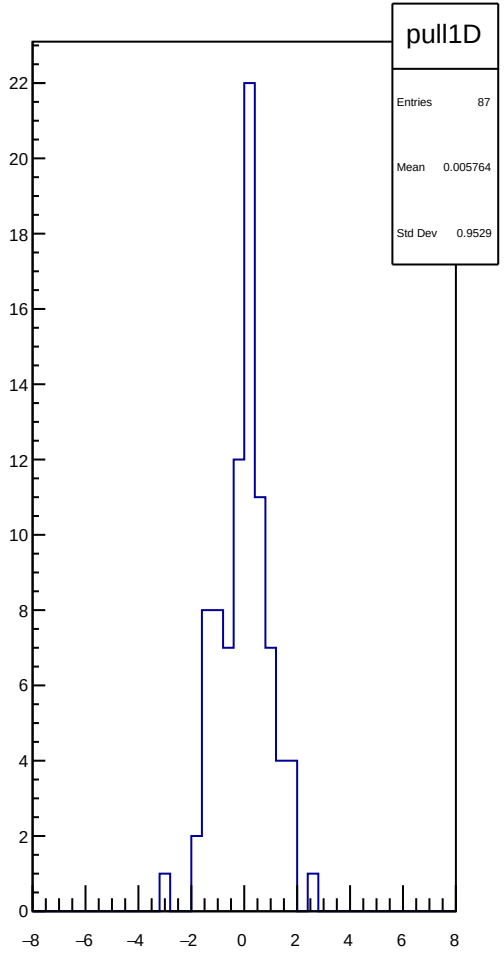

asym_sam_48_avg_rms vs run
χ² / ndf 8010 / 86
p0 1339 ± 1.043
1600
1500
1400
1300
1200
1100

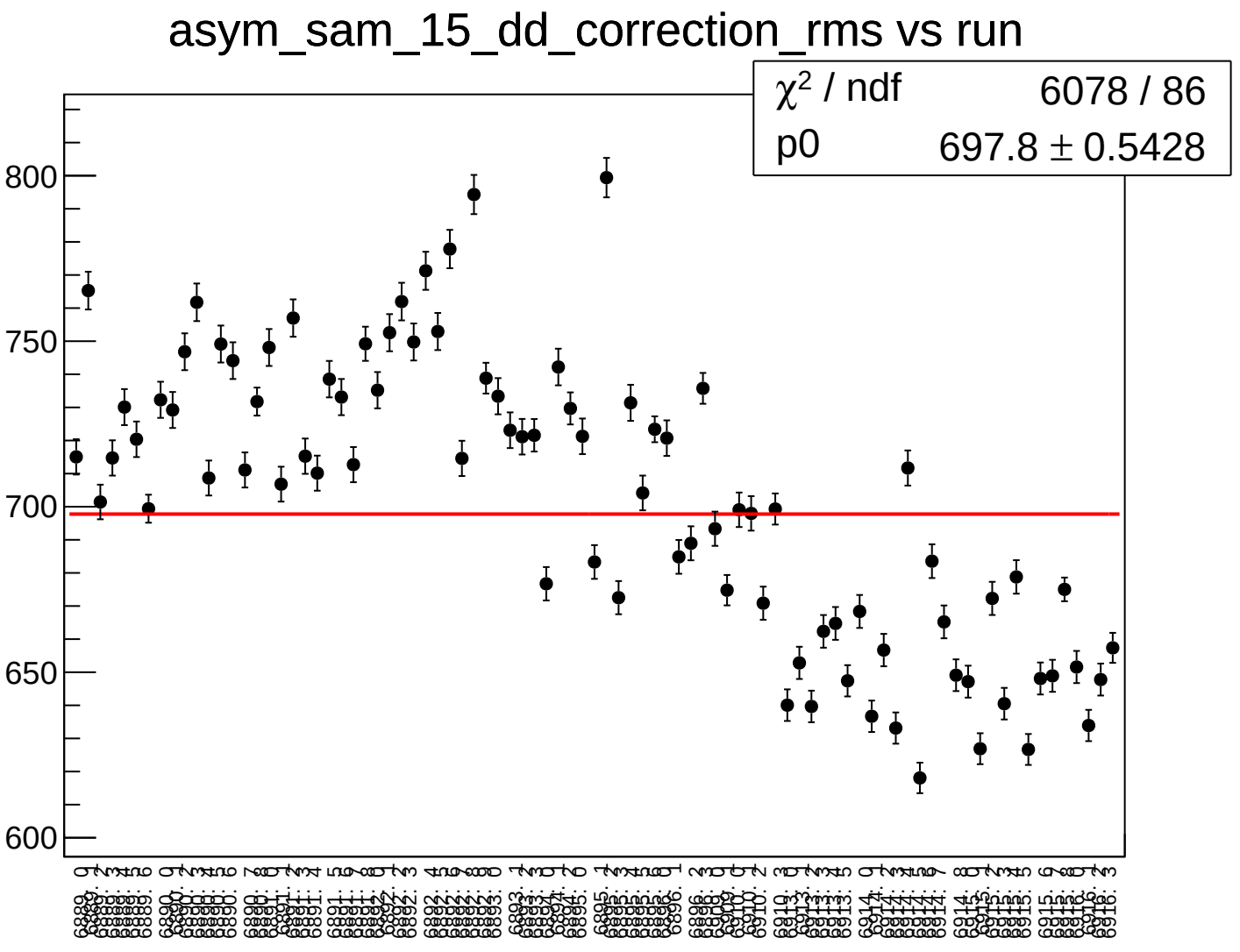

dit_asym_sam_15_dd_mean vs run
χ^2 / ndf 82.06 / 86
p0 193.1 ± 122
pull
Entries 87
Mean 47.1
Std Dev 28.47

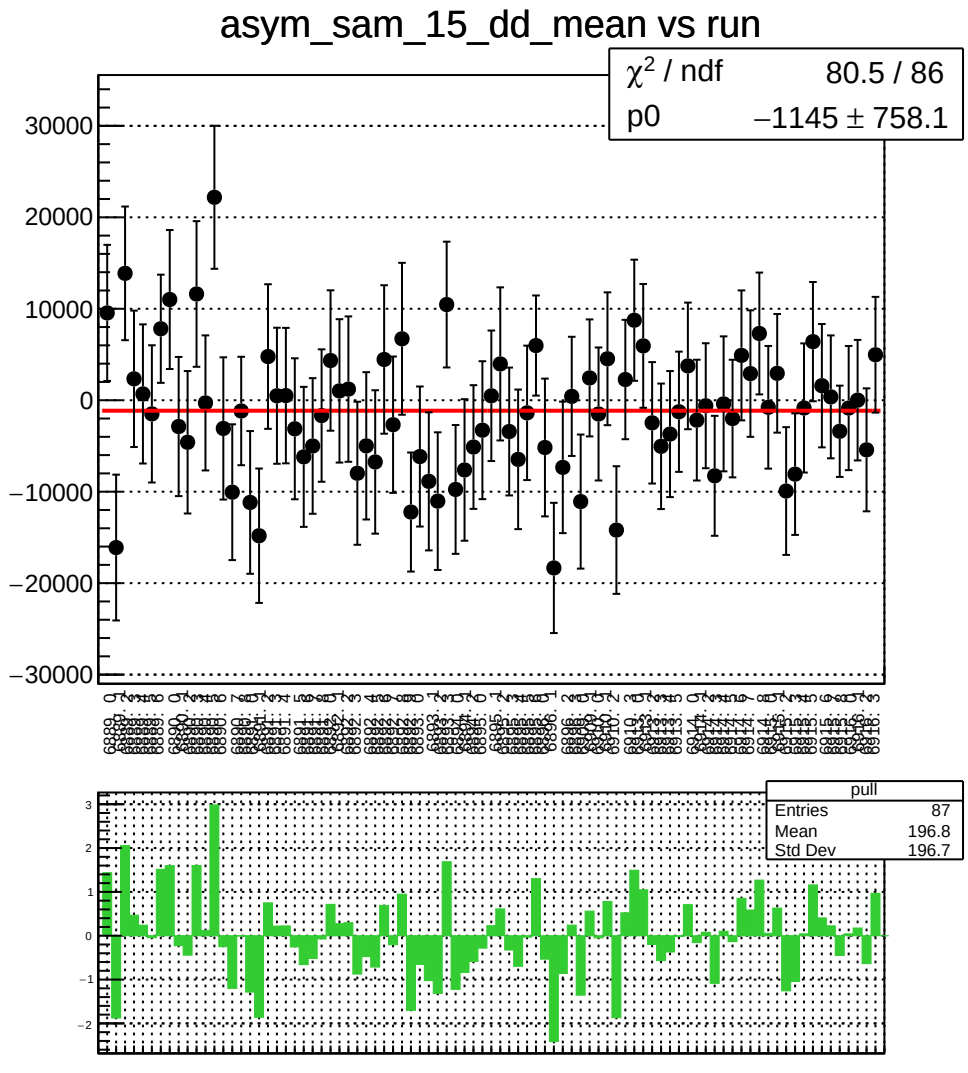

pull1D
Entries 87
Mean −0.01461
Std Dev 0.9711

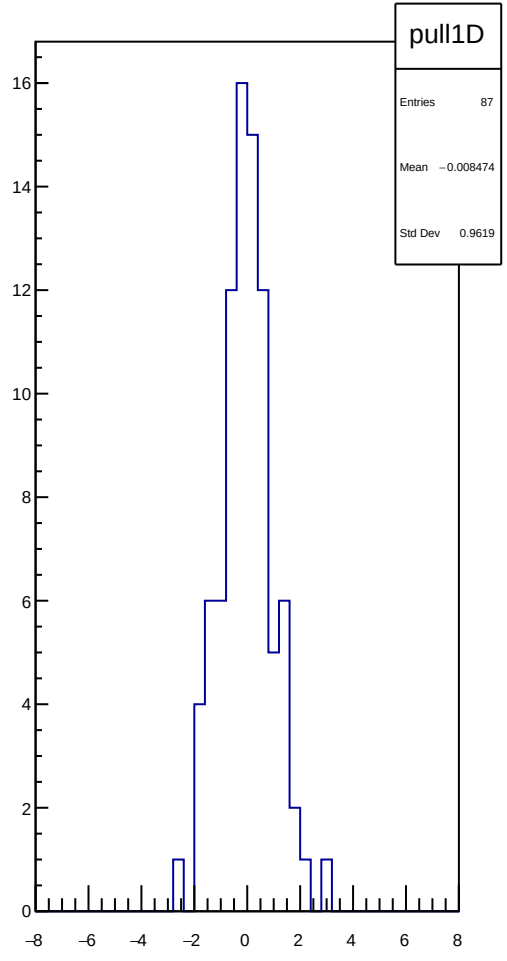

dit_asym_sam_15_dd_rms vs run
χ² / ndf 1822 / 86
p0 111.1 ± 0.0863
120
115
110
105
100

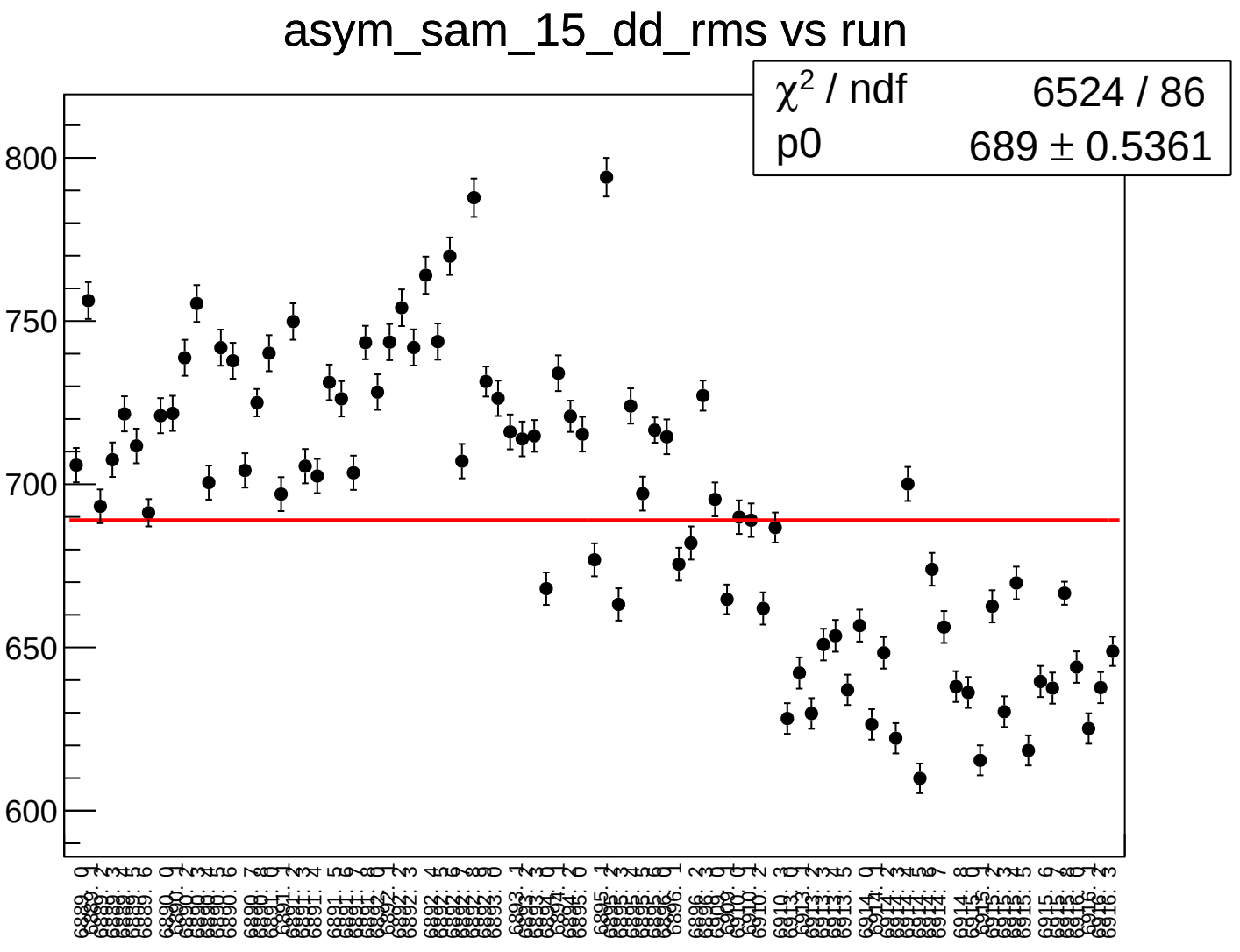

asym_sam_15_dd_correction_mean vs run
χ² / ndf 79 / 86
p0 1344 ± 767.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 261.4
Std Dev 264.6
2
1
0
−1
−2
−3

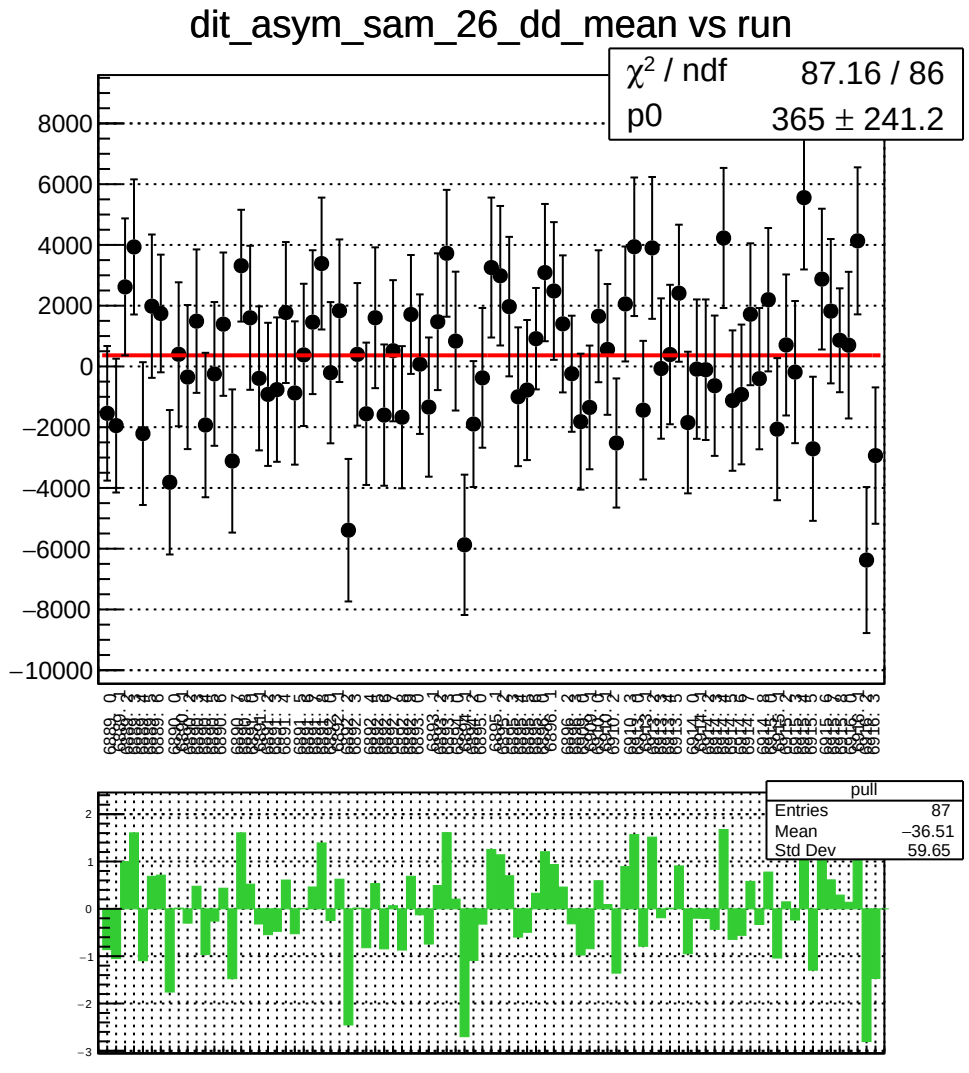

pull1D
Entries 87
Mean 0.005764
Std Dev 0.9529
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

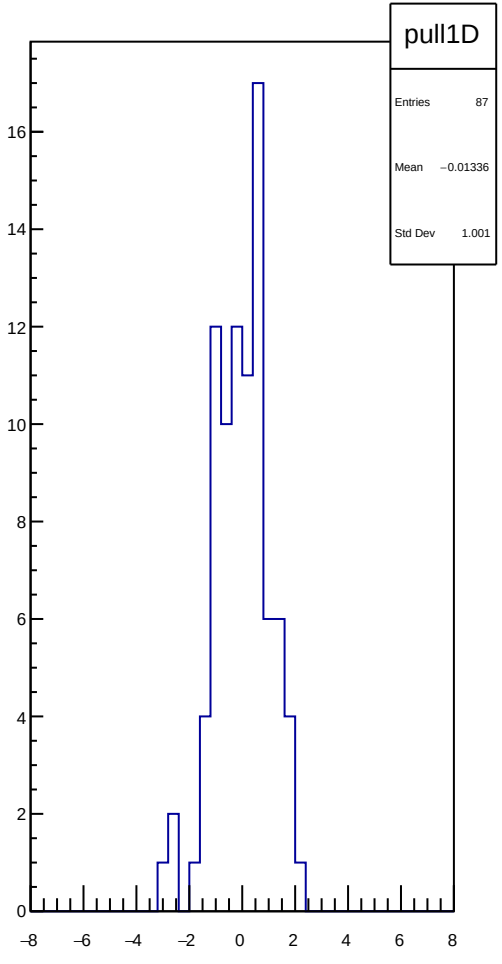

asym_sam_15_dd_correction_rms vs run
χ² / ndf 6078 / 86
p0 697.8 ± 0.5428
800
750
700
650
600

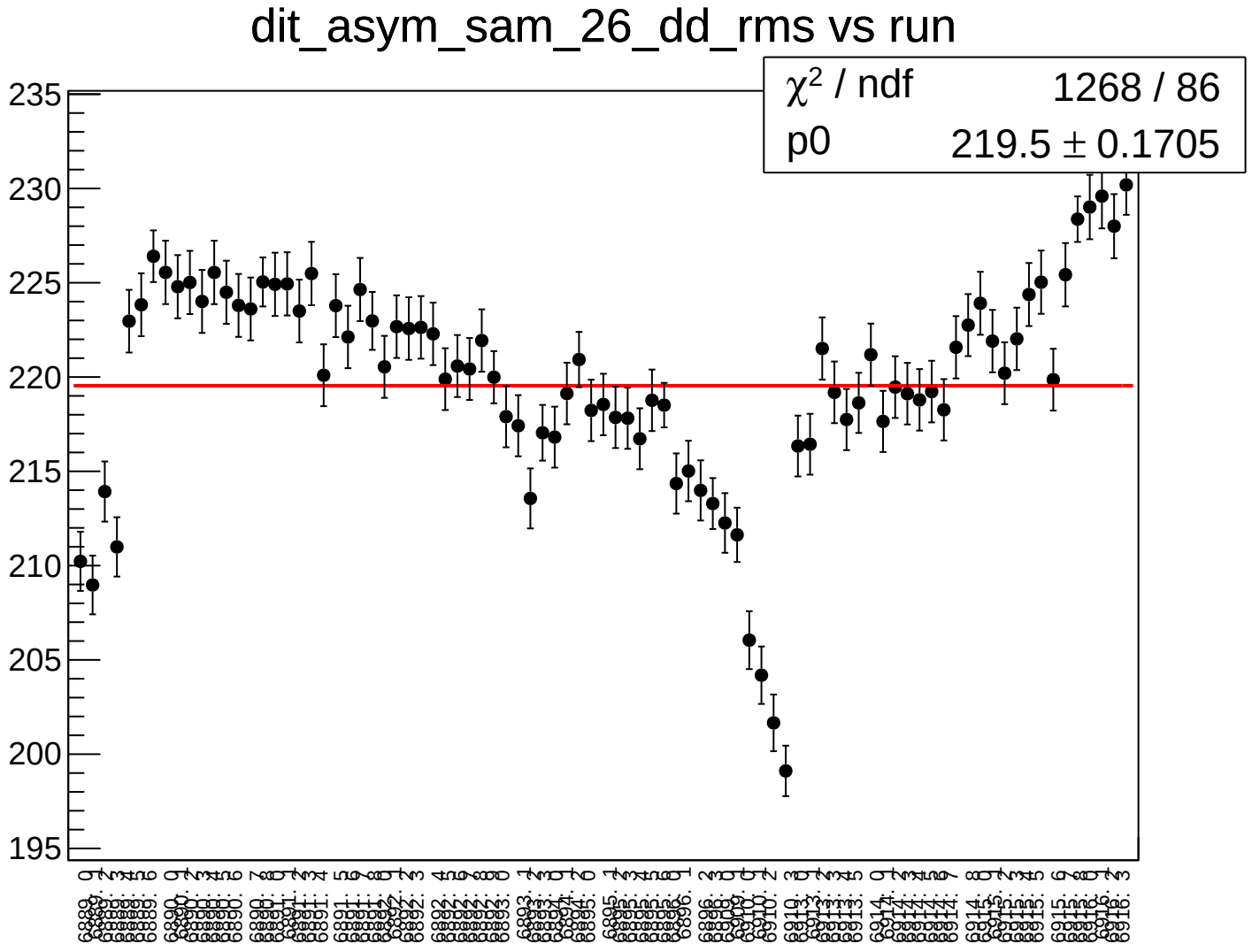

asym_sam_15_dd_mean vs run
χ² / ndf 80.5 / 86
p0 −1145 ± 758.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean 196.8
Std Dev 196.7
3
2
1
0
−1
−2

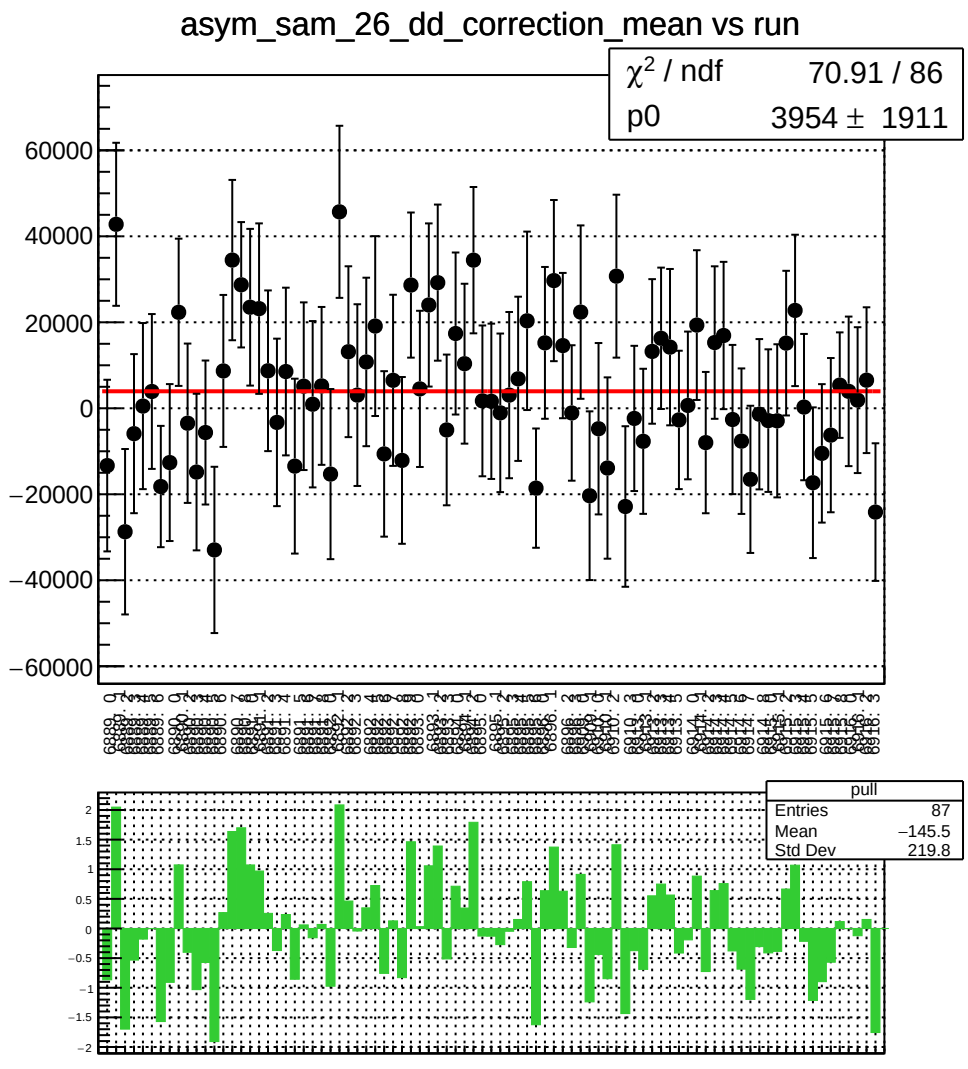

pull1D
Entries 87
Mean −0.008474
Std Dev 0.9619
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

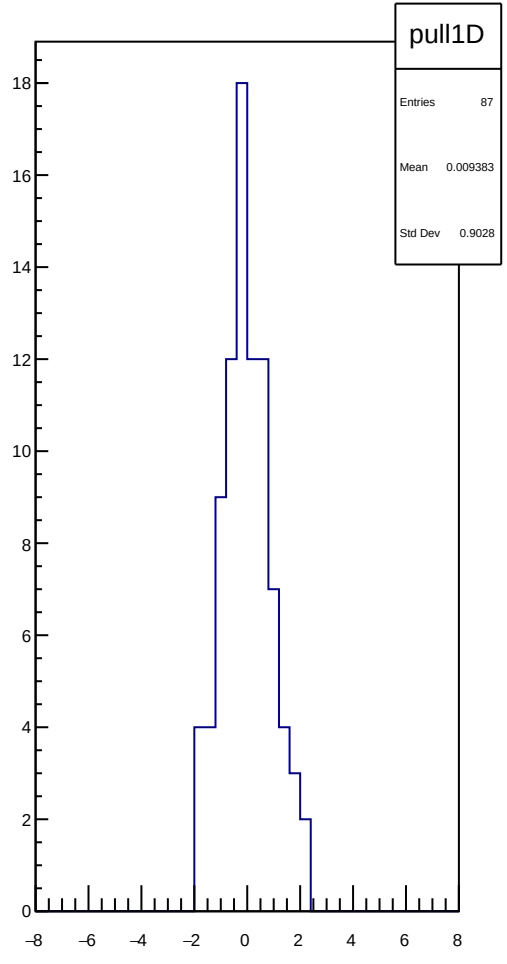

asym_sam_15_dd_rms vs run
χ² / ndf 6524 / 86
p0 689 ± 0.5361
800
750
700
650
600

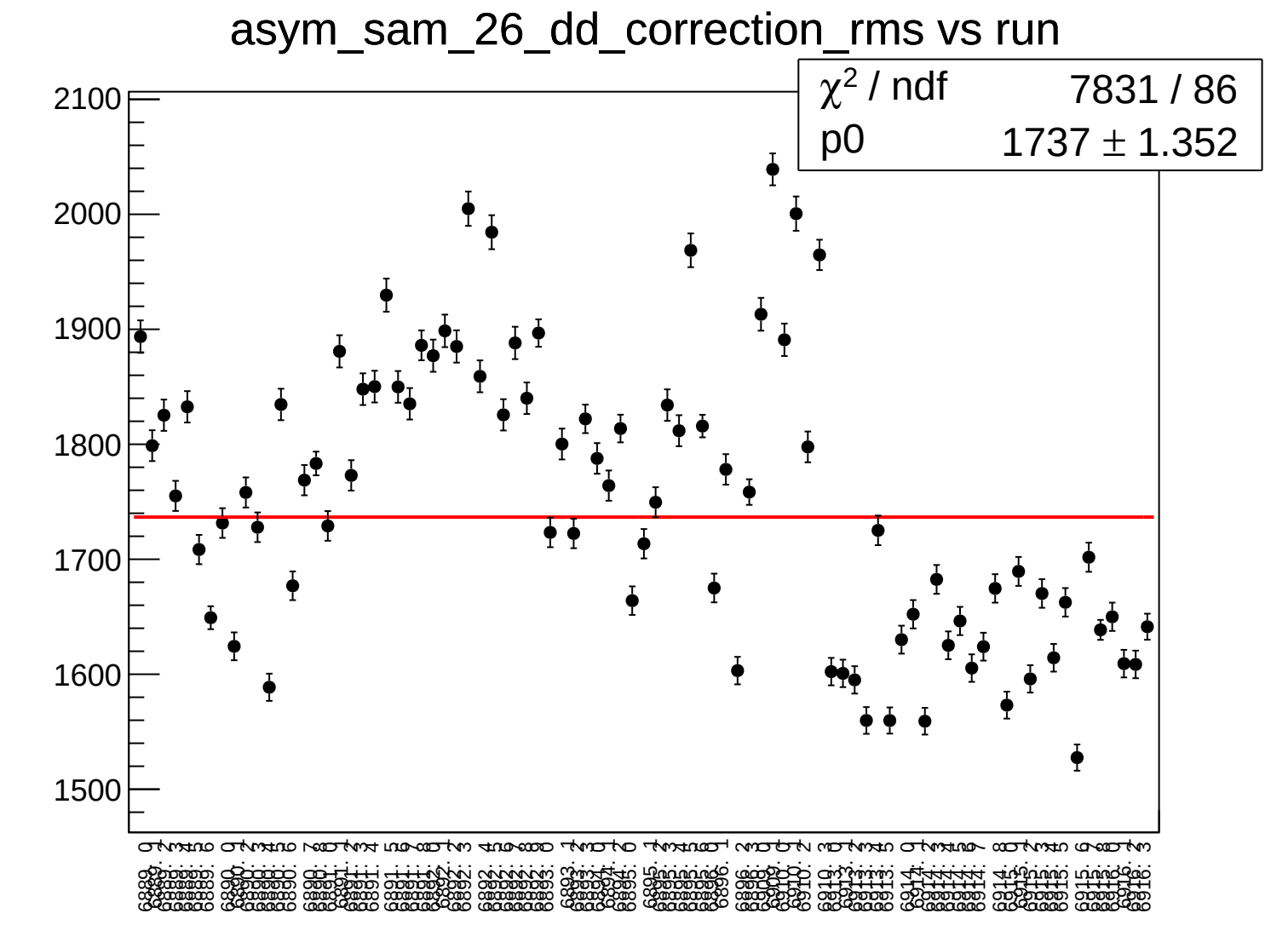

dit_asym_sam_26_dd_mean vs run
χ² / ndf 87.16 / 86
p0 365 ± 241.2
pull
Entries 87
Mean −36.51
Std Dev 59.65

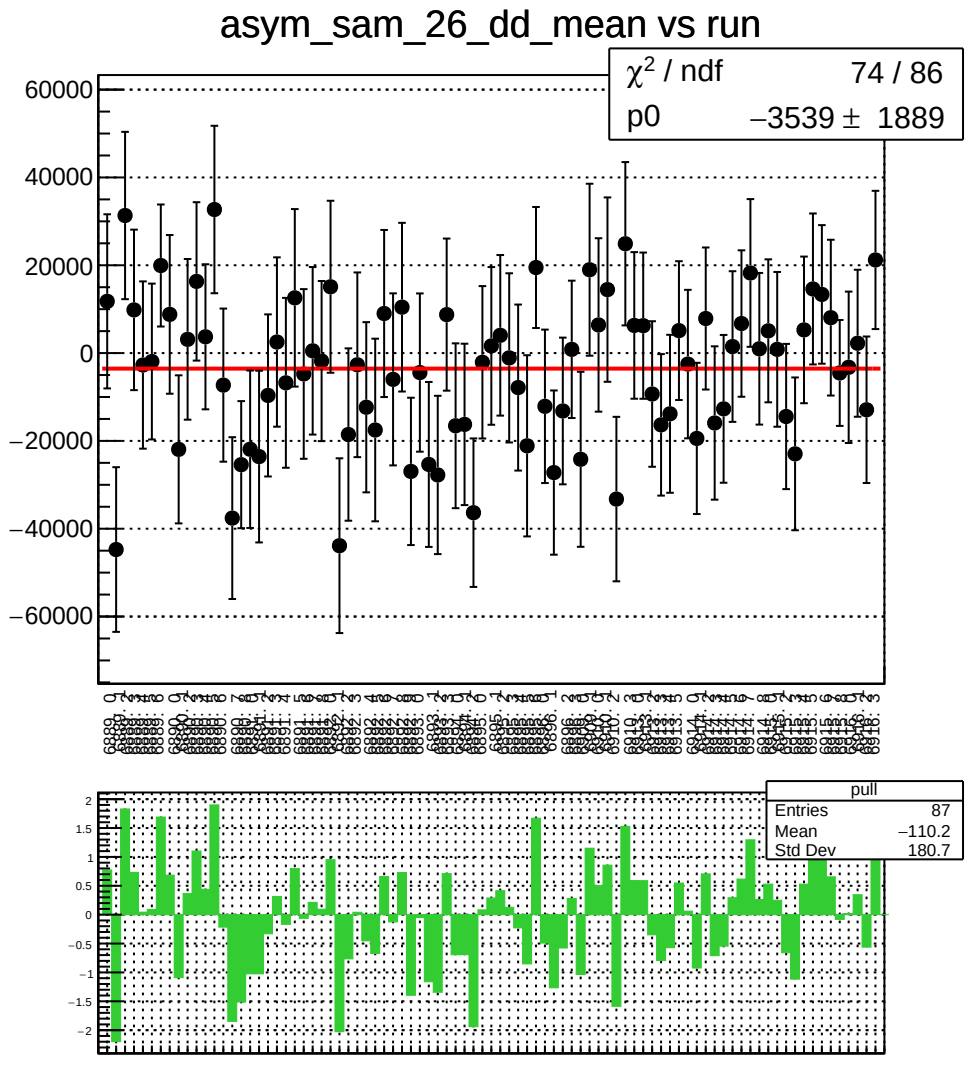

pull1D
Entries 87
Mean −0.01336
Std Dev 1.001

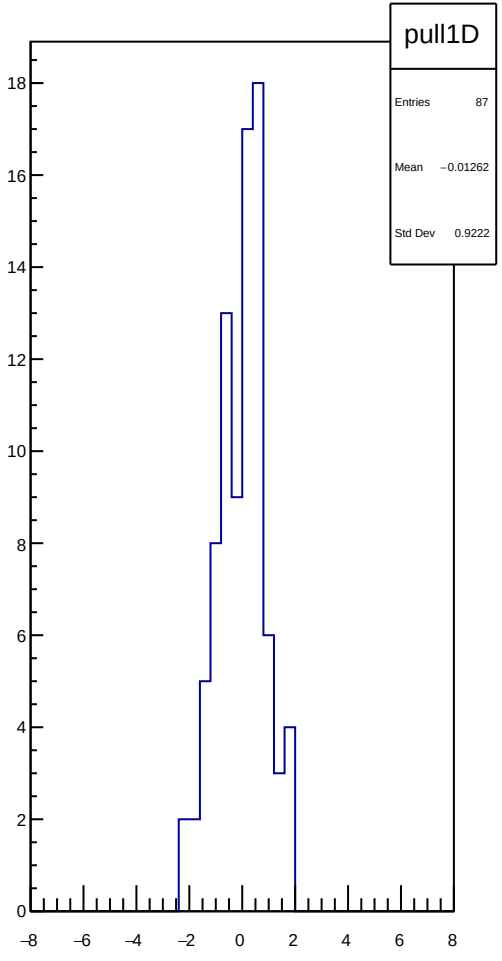

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1268 / 86
p0 219.5 ± 0.1705
235
230
225
220
215
210
205
200
195

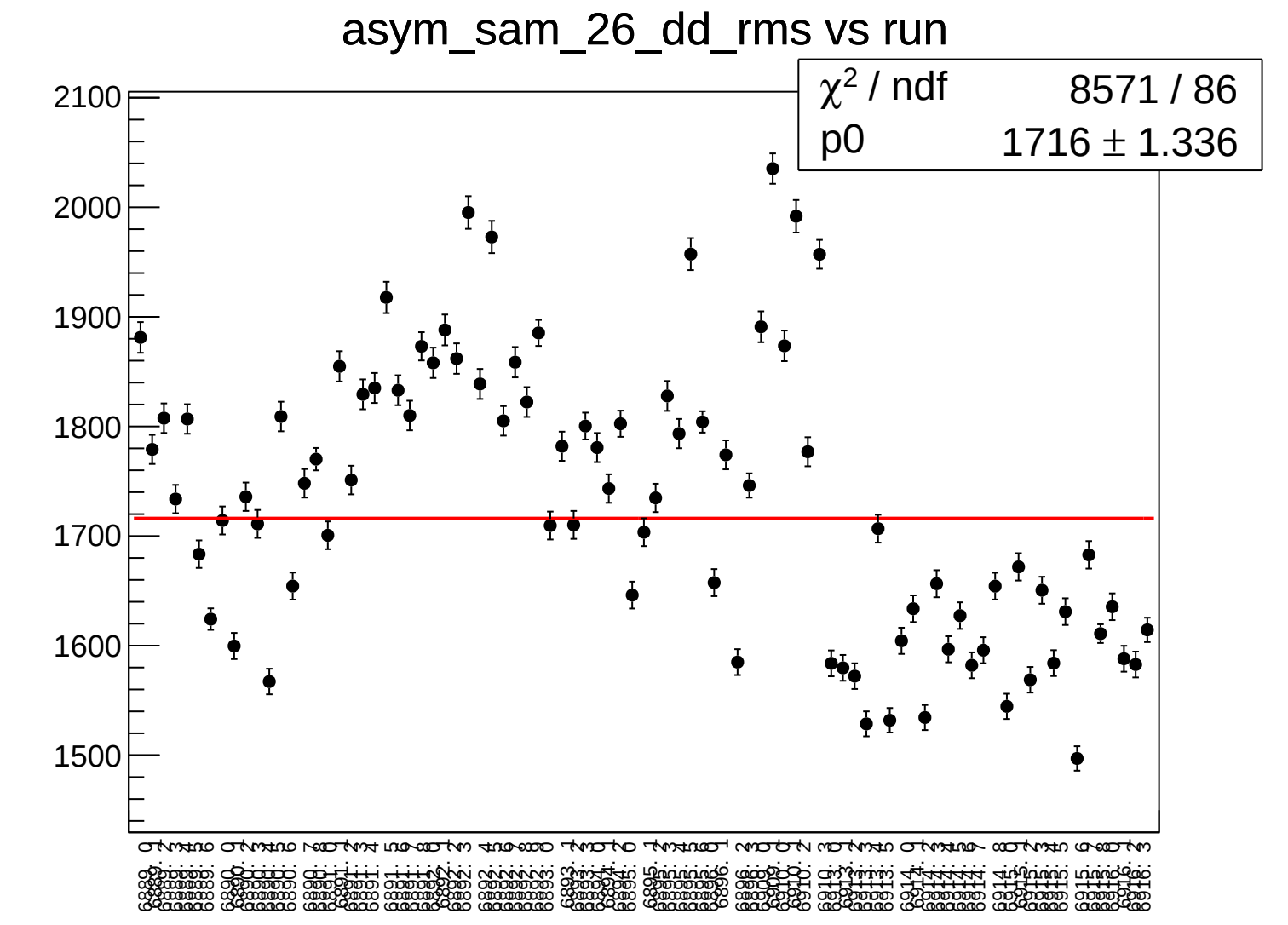

asym_sam_26_dd_correction_mean vs run
χ² / ndf 70.91 / 86
p0 3954 ± 1911
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −145.5
Std Dev 219.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

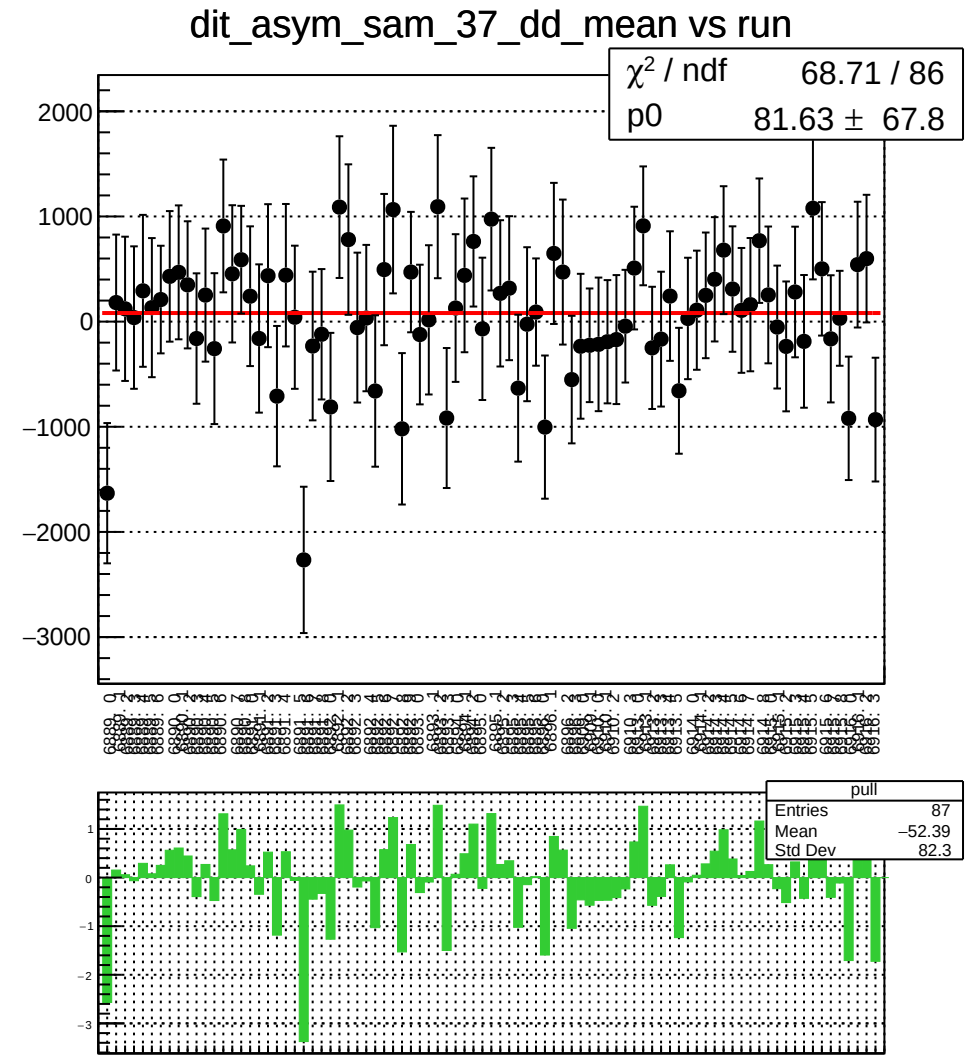

pull1D
Entries 87
Mean 0.009383
Std Dev 0.9028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

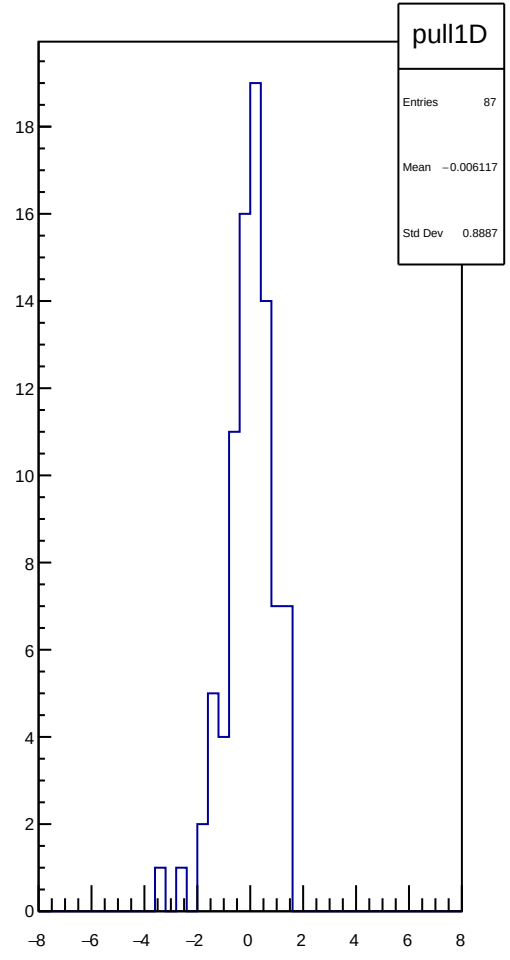

asym_sam_26_dd_correction_rms vs run
χ^2 / ndf 7831 / 86
p0 1737 ± 1.352
2100
2000
1900
1800
1700
1600
1500

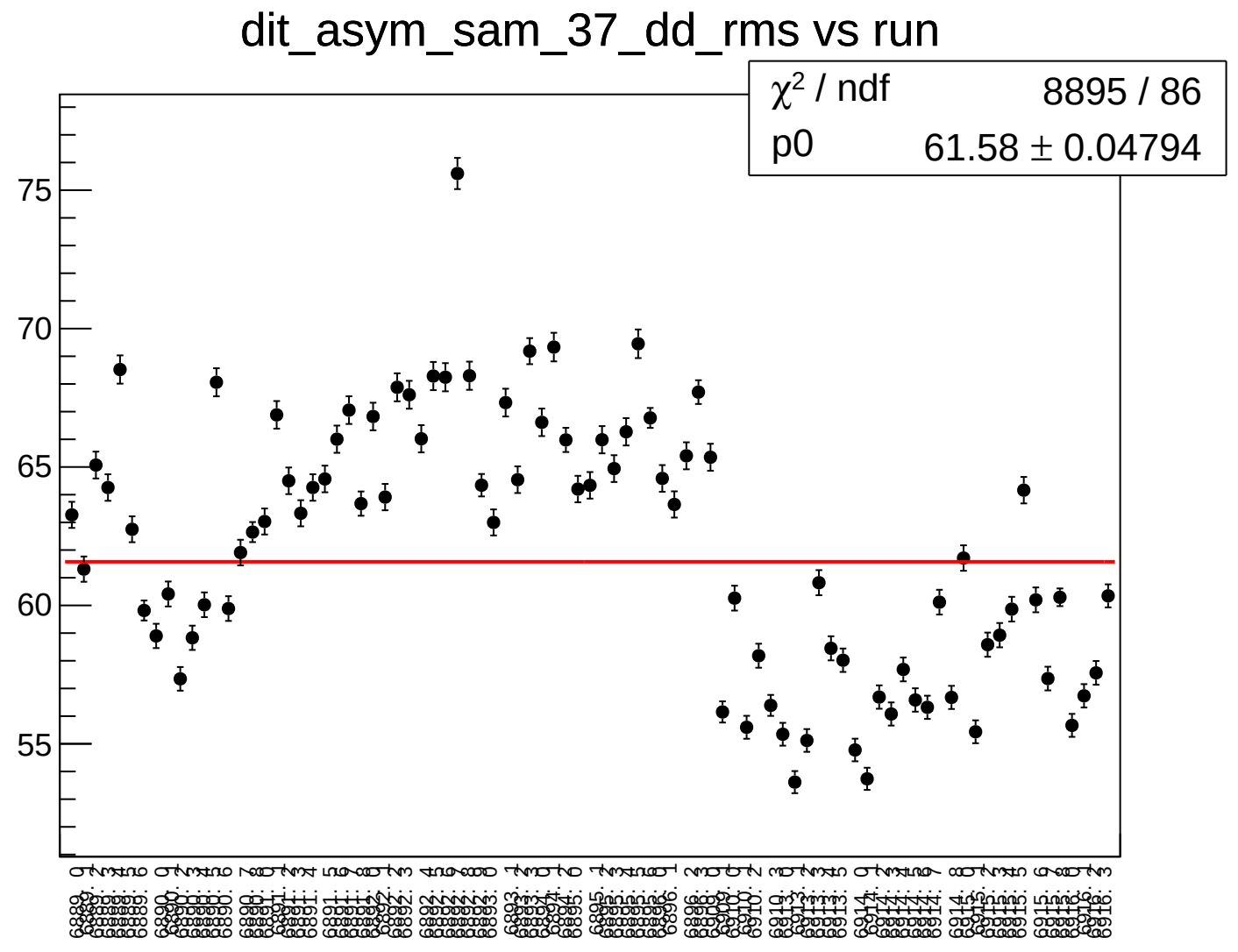

asym_sam_26_dd_mean vs run
χ² / ndf 74 / 86
p0 −3539 ± 1889
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 87
Mean −110.2
Std Dev 180.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

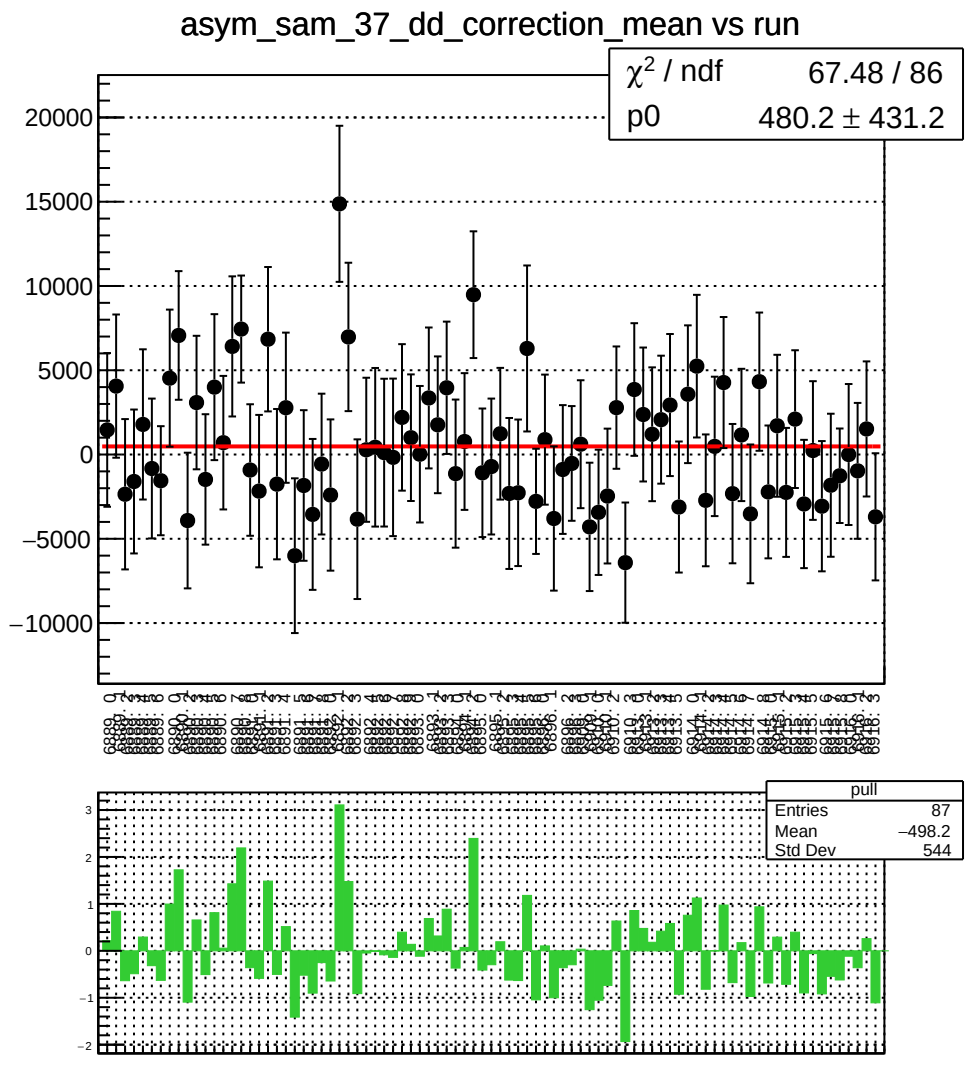

pull1D
Entries 87
Mean −0.01262
Std Dev 0.9222
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

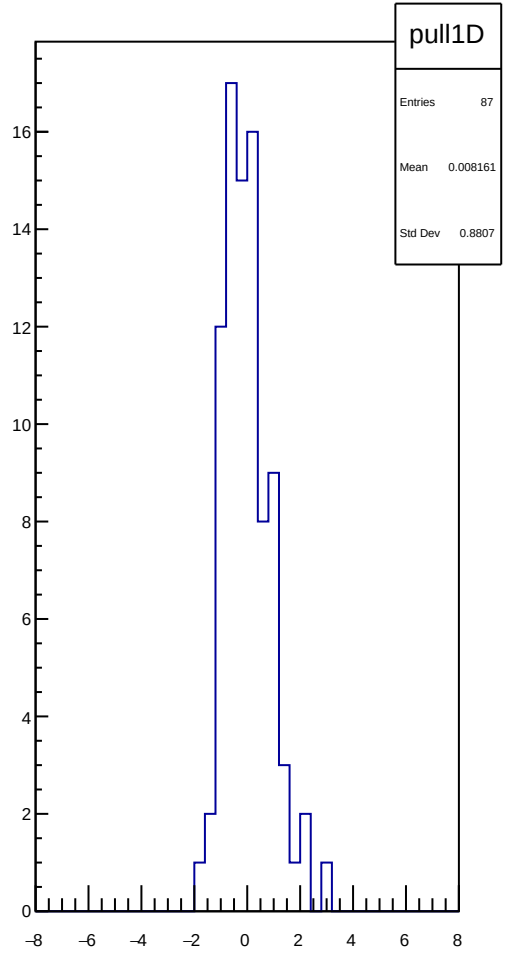

asym_sam_26_dd_rms vs run
χ² / ndf 8571 / 86
p0 1716 ± 1.336
2100
2000
1900
1800
1700
1600
1500

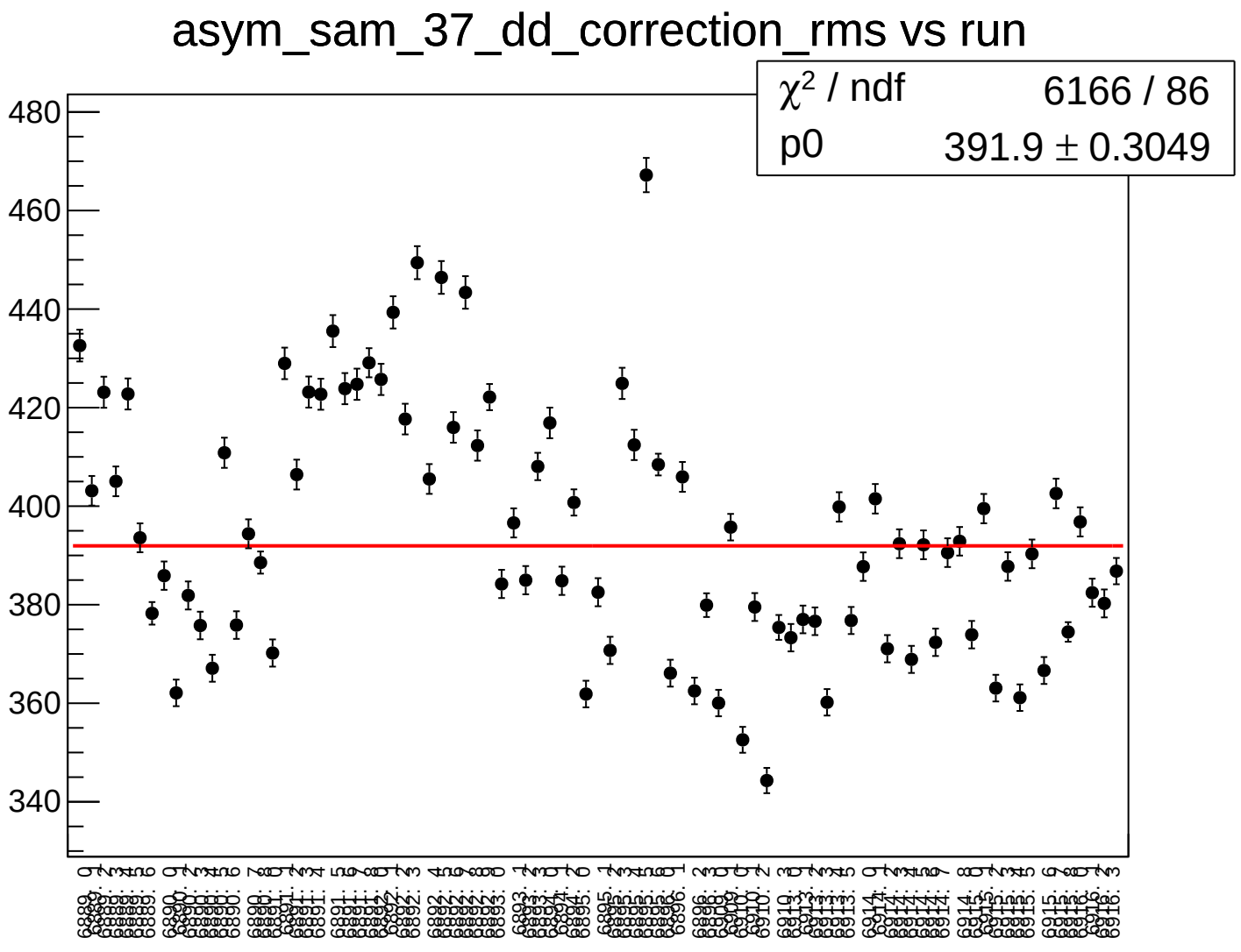

dit_asym_sam_37_dd_mean vs run
χ² / ndf 68.71 / 86
p0 81.63 ± 67.8
pull
Entries 87
Mean −52.39
Std Dev 82.3

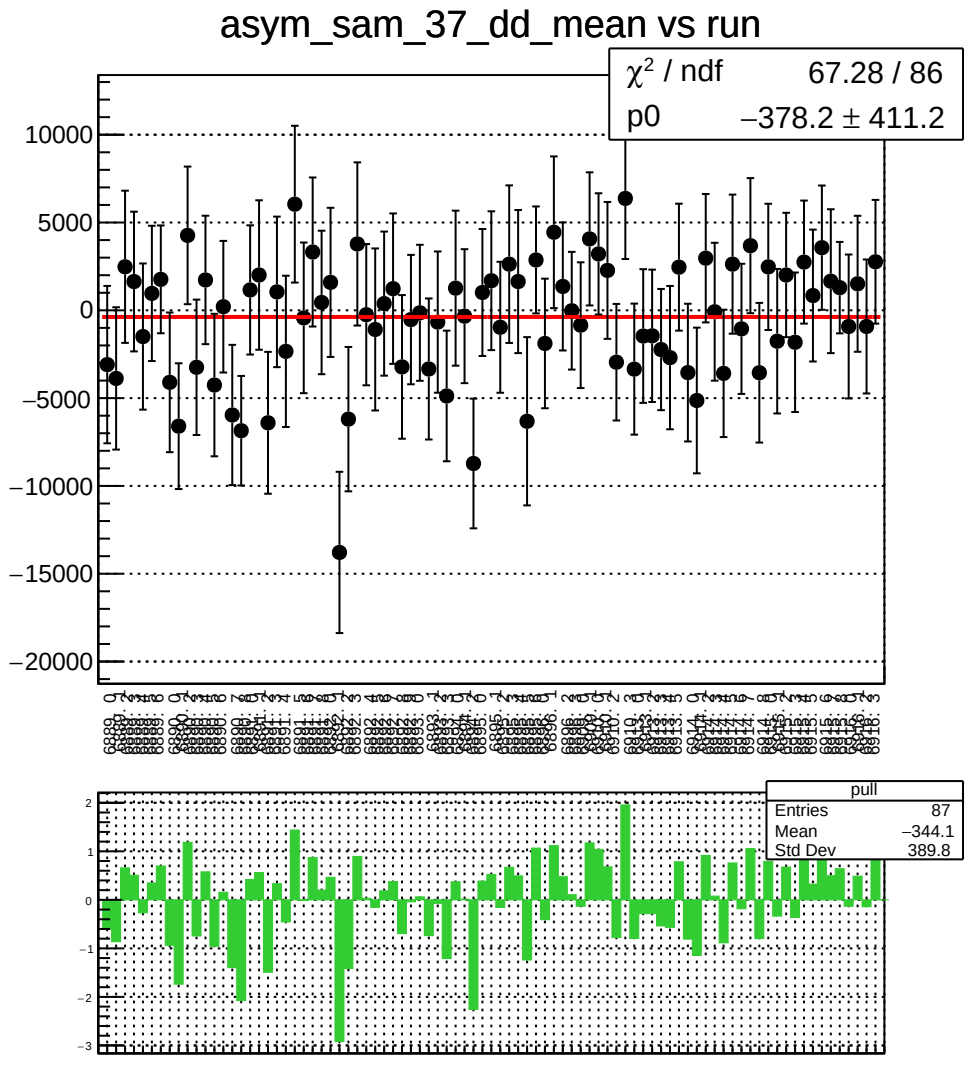

pull1D
Entries 87
Mean −0.006117
Std Dev 0.8887

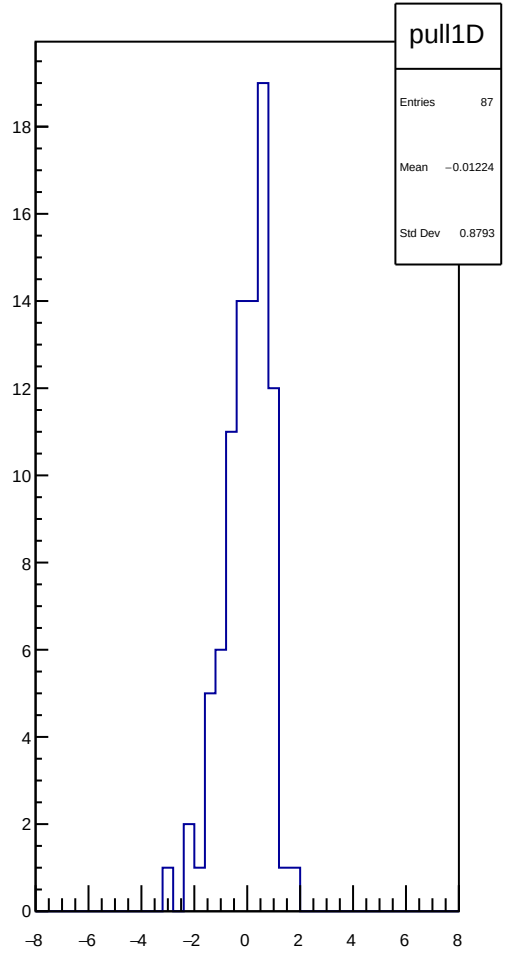

dit_asym_sam_37_dd_rms vs run
χ² / ndf 8895 / 86
p0 61.58 ± 0.04794
75
70
65
60
55

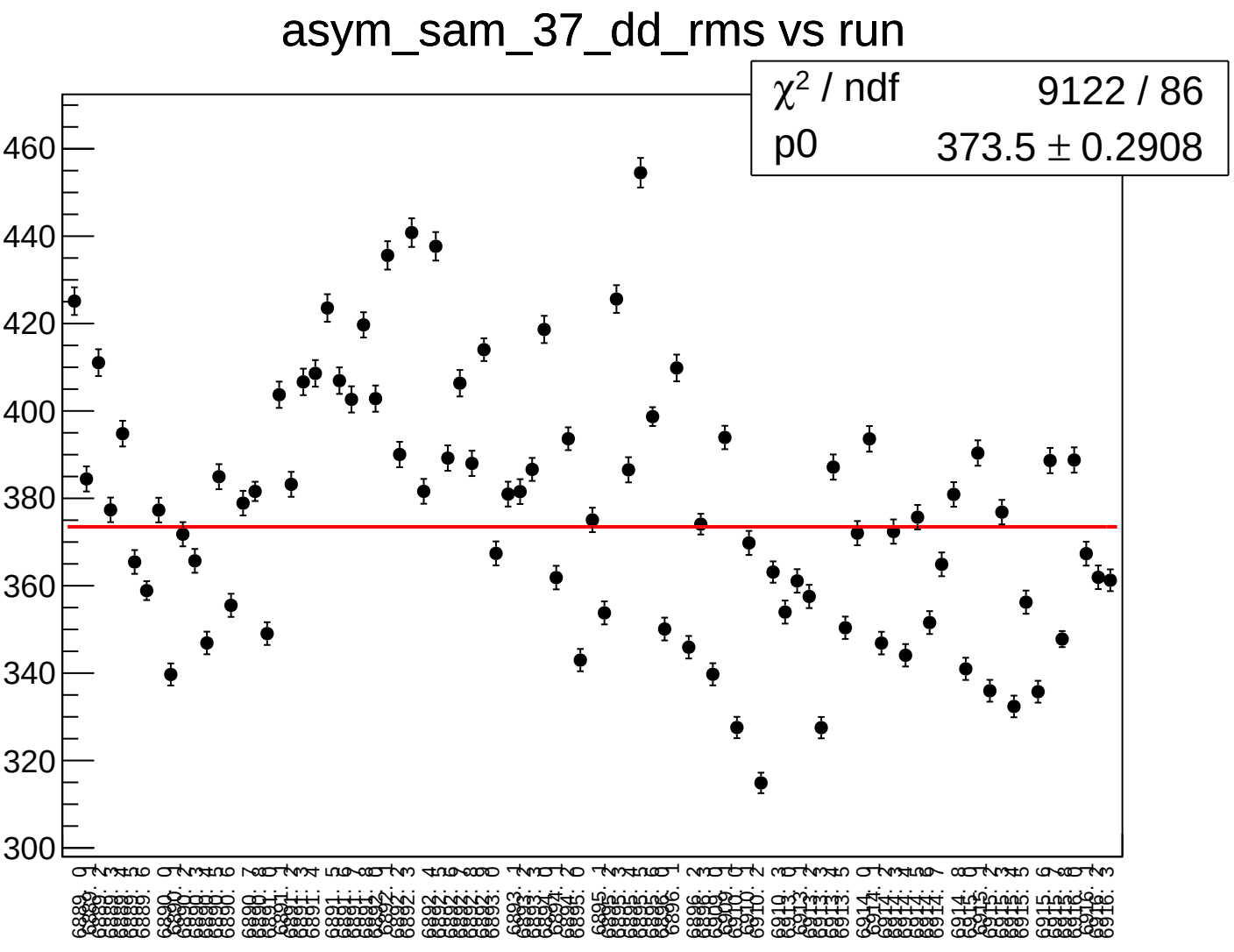

asym_sam_37_dd_correction_mean vs run
χ² / ndf 67.48 / 86
p0 480.2 ± 431.2
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −498.2
Std Dev 544
3
2
1
0
−1
−2

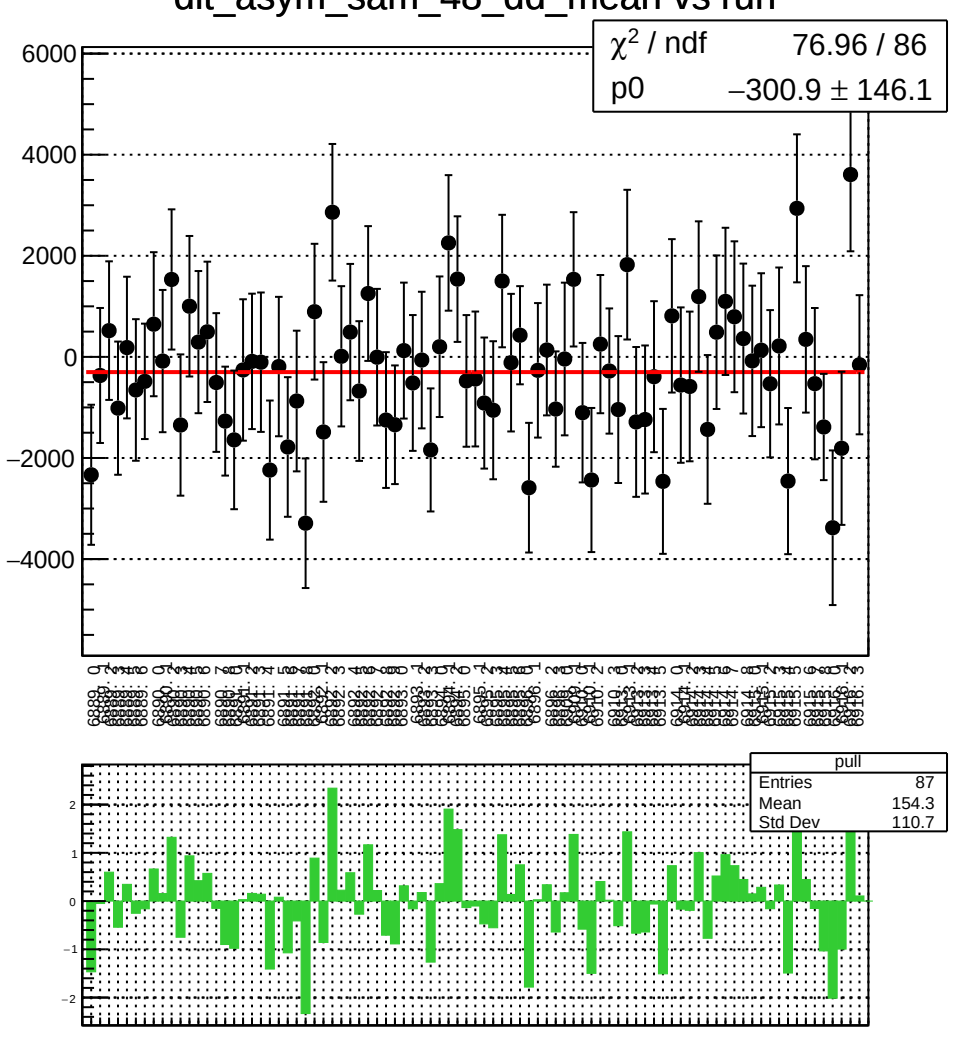

pull1D
Entries 87
Mean 0.008161
Std Dev 0.8807
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

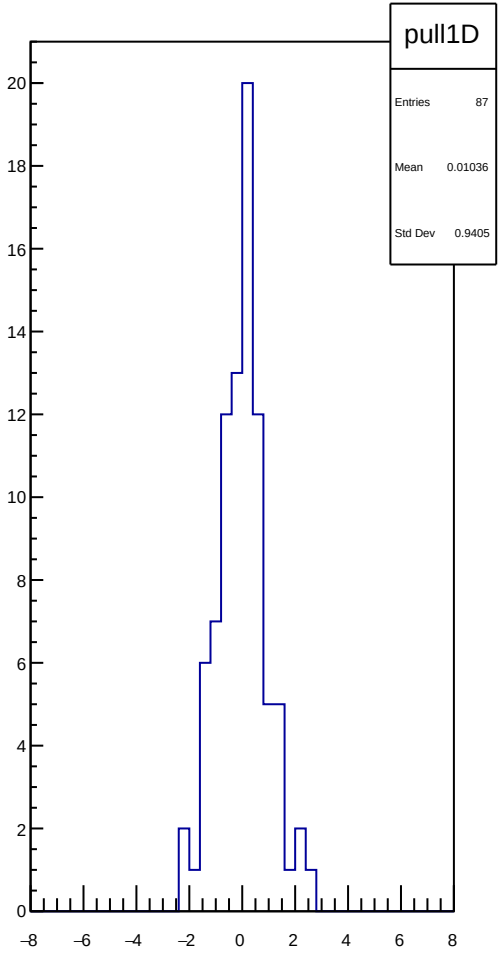

asym_sam_37_dd_correction_rms vs run
χ² / ndf 6166 / 86
p0 391.9 ± 0.3049
480
460
440
420
400
380
360
340

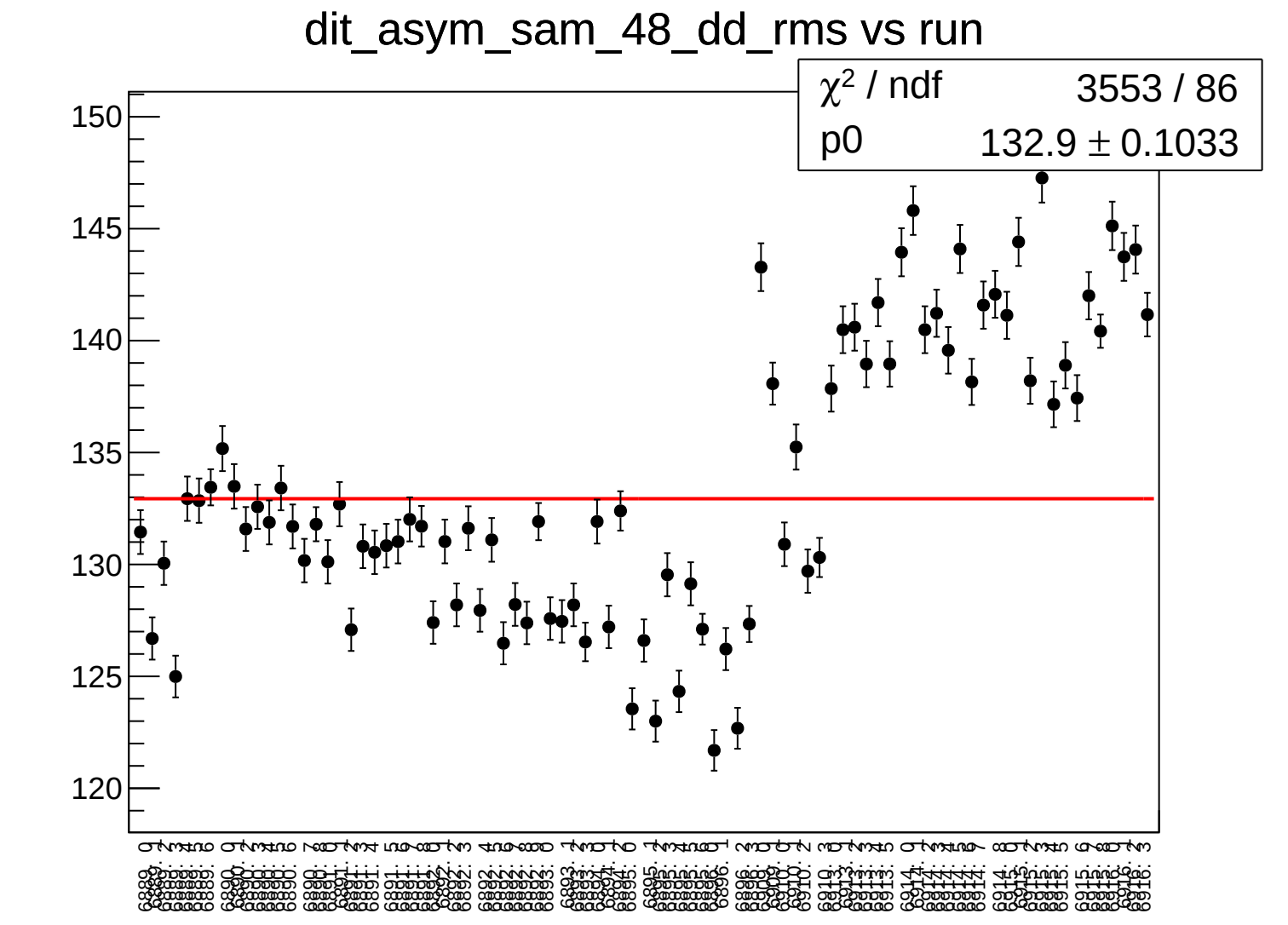

asym_sam_37_dd_mean vs run
χ² / ndf 67.28 / 86
p0 −378.2 ± 411.2
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 87
Mean −344.1
Std Dev 389.8
2
1
0
−1
−2
−3

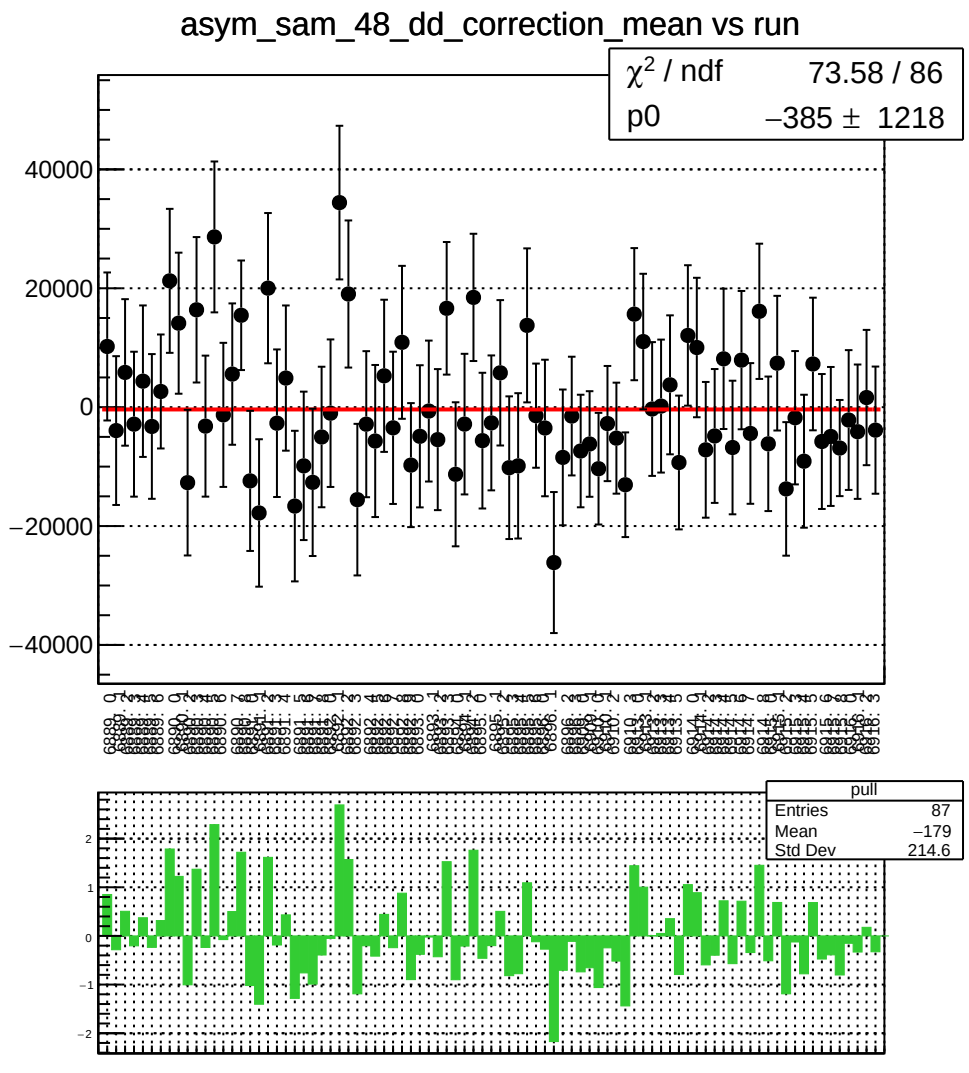

pull1D
Entries 87
Mean −0.01224
Std Dev 0.8793
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

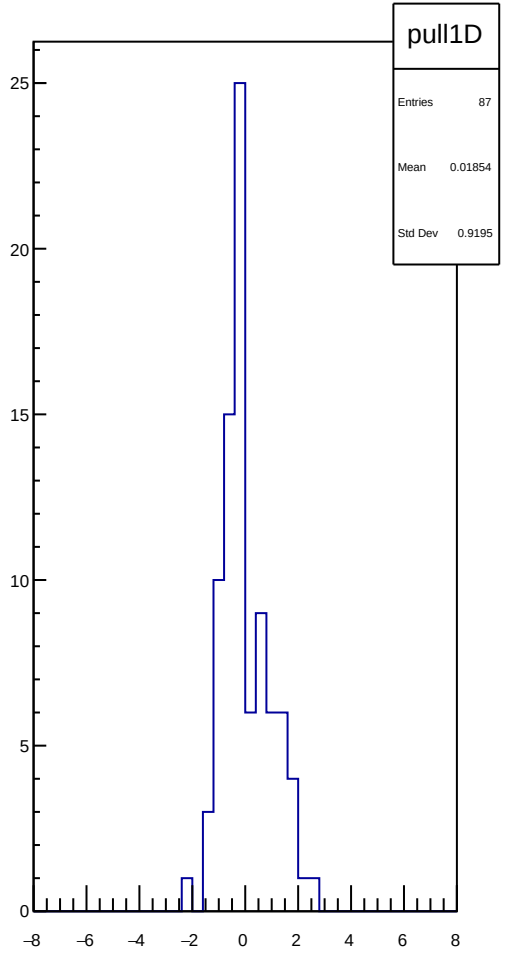

asym_sam_37_dd_rms vs run
χ^2 / ndf 9122 / 86
p0 373.5 ± 0.2908
460
440
420
400
380
360
340
320
300

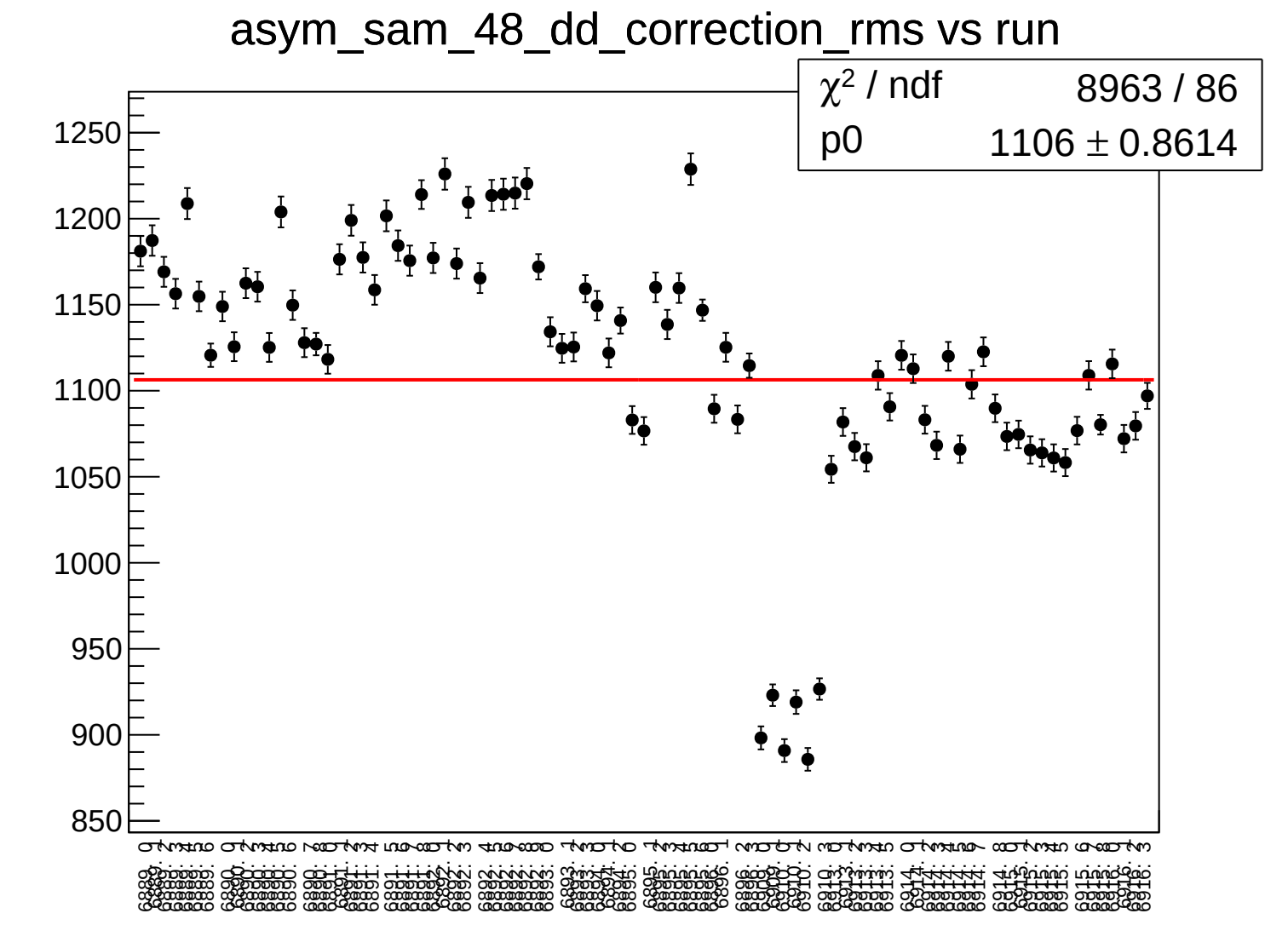

dit_asym_sam_48_dd_mean vs run
χ² / ndf 76.96 / 86
p0 −300.9 ± 146.1
pull
Entries 87
Mean 154.3
Std Dev 110.7

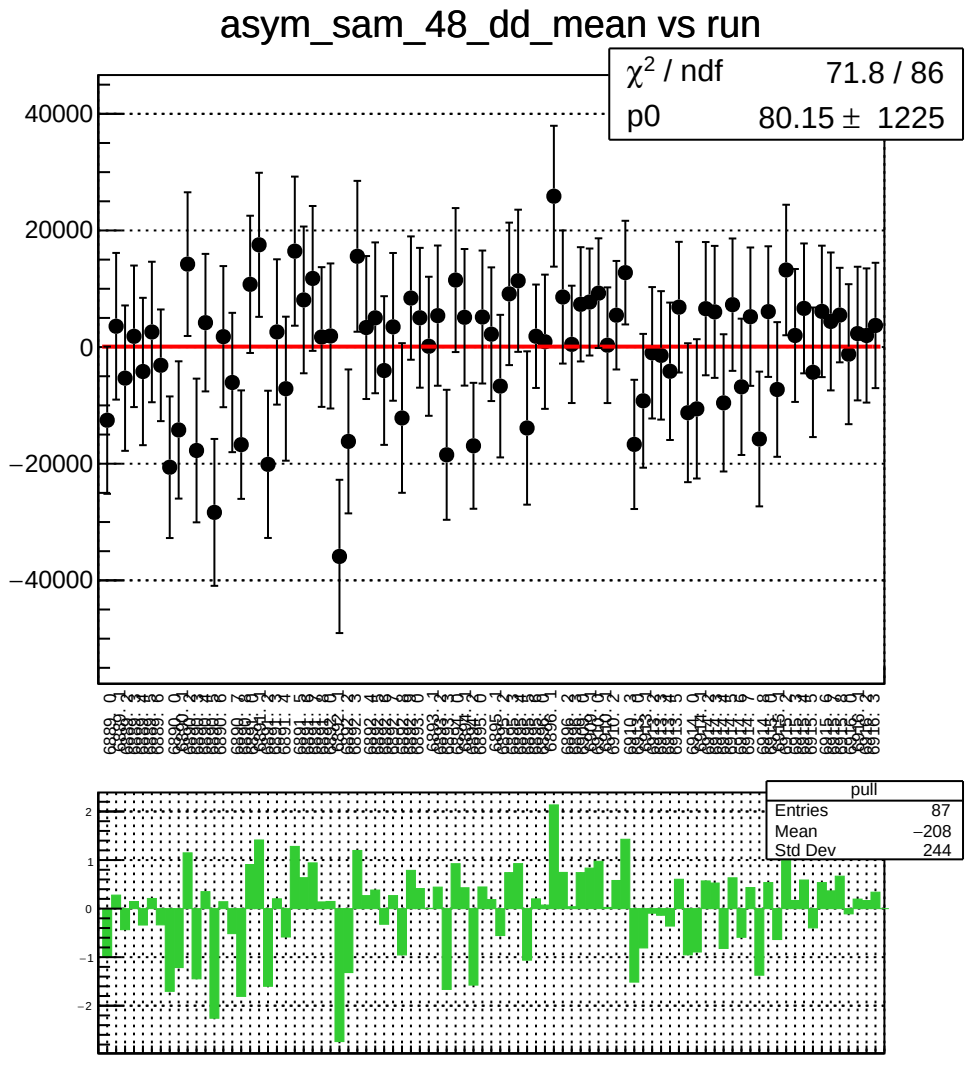

pull1D
Entries 87
Mean 0.01036
Std Dev 0.9405

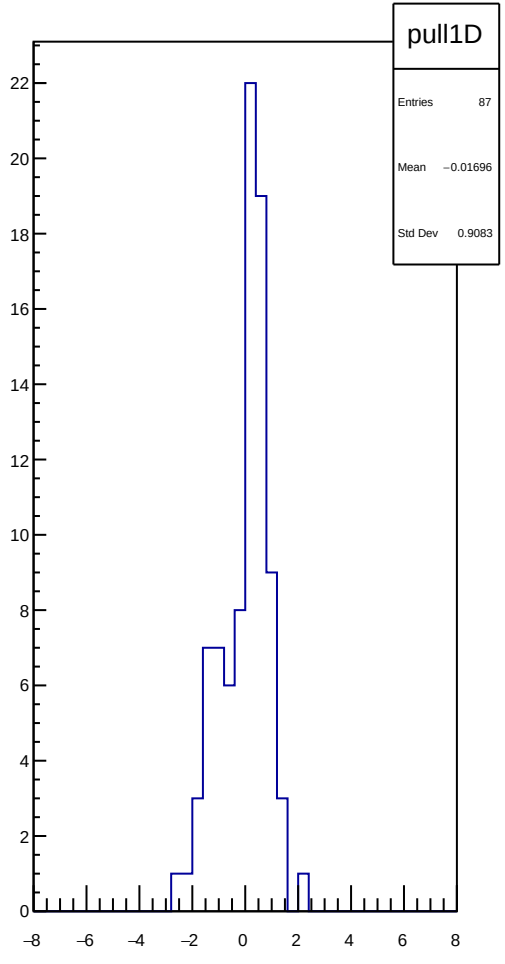

dit_asym_sam_48_dd_rms vs run
χ² / ndf 3553 / 86
p0 132.9 ± 0.1033
150
145
140
135
130
125
120

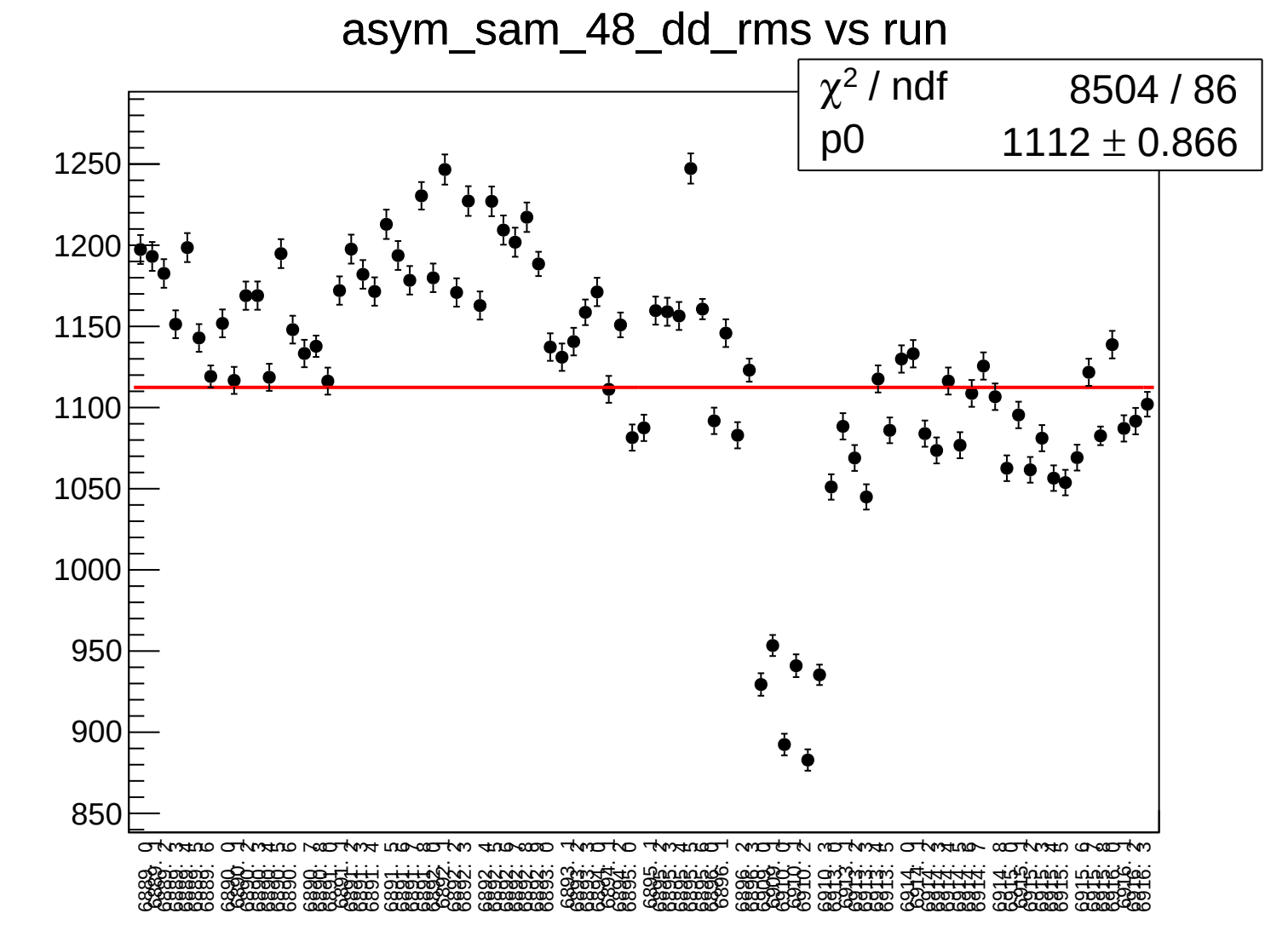

asym_sam_48_dd_correction_mean vs run
χ² / ndf 73.58 / 86
p0 −385 ± 1218
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −179
Std Dev 214.6
2
1
0
−1
−2

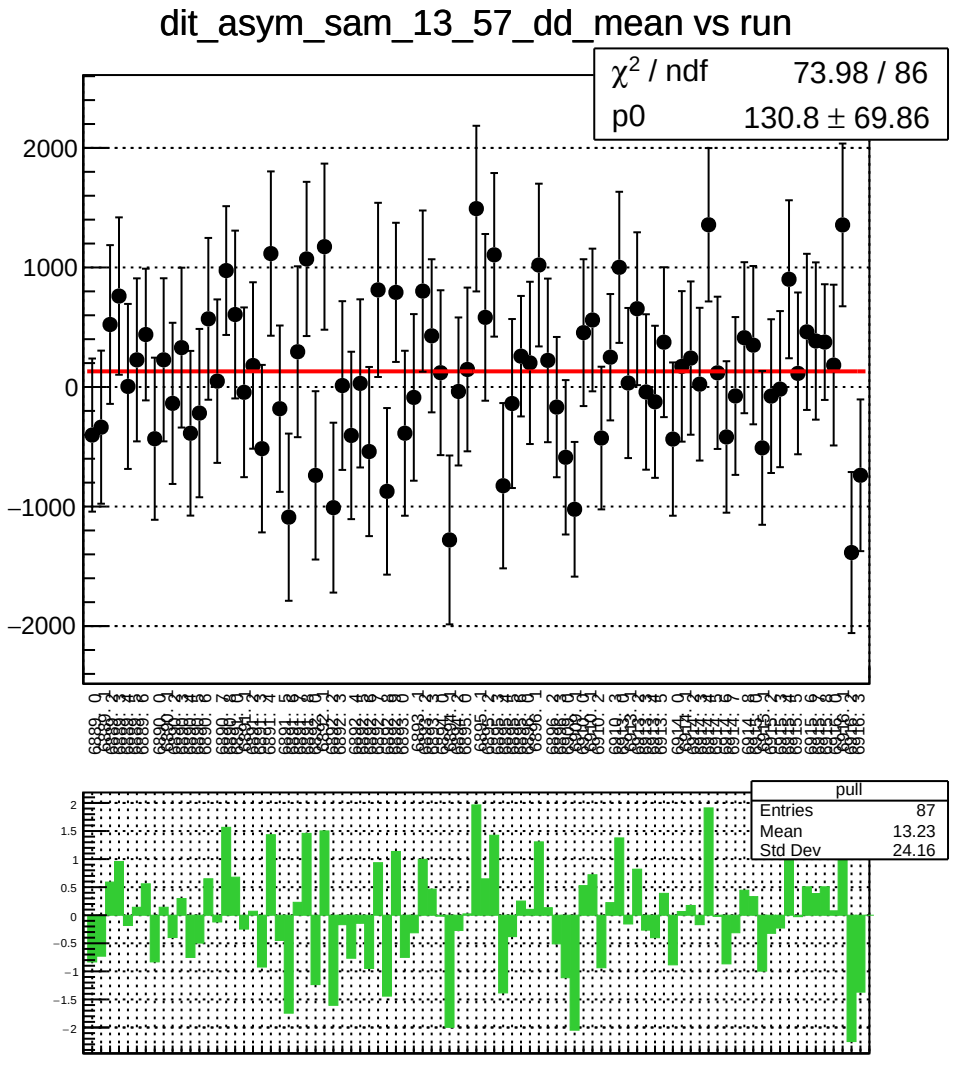

pull1D
Entries 87
Mean 0.01854
Std Dev 0.9195
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

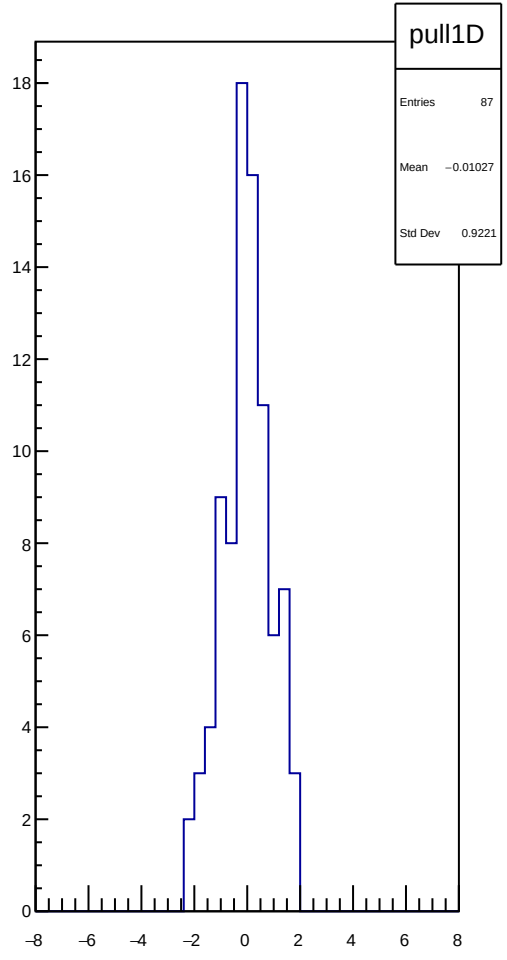

asym_sam_48_dd_correction_rms vs run
χ² / ndf 8963 / 86
p0 1106 ± 0.8614
1250
1200
1150
1100
1050
1000
950
900
850

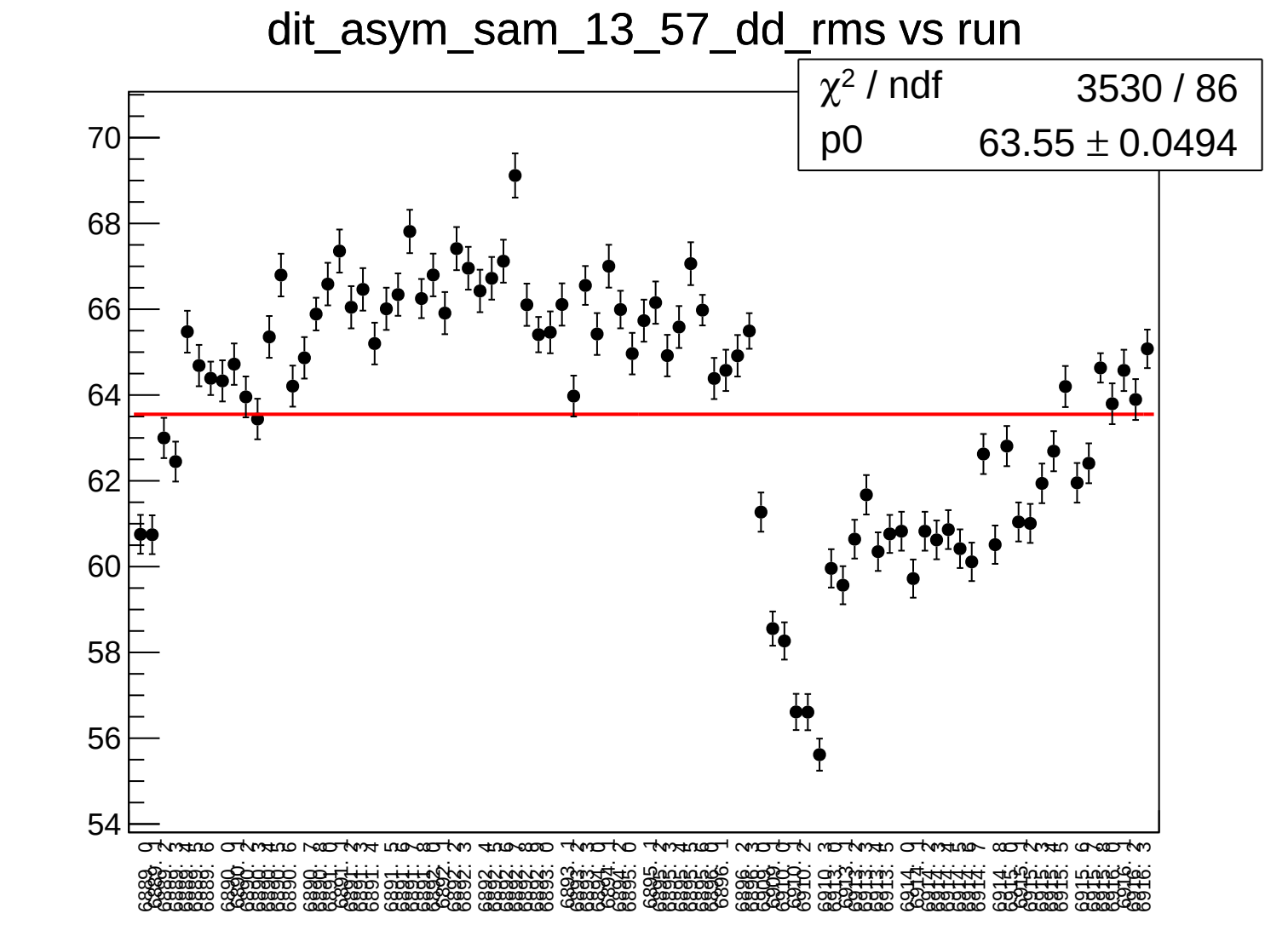

asym_sam_48_dd_mean vs run
χ² / ndf 71.8 / 86
p0 80.15 ± 1225
40000
20000
0
−20000
−40000
pull
Entries 87
Mean −208
Std Dev 244
2
1
0
−1
−2

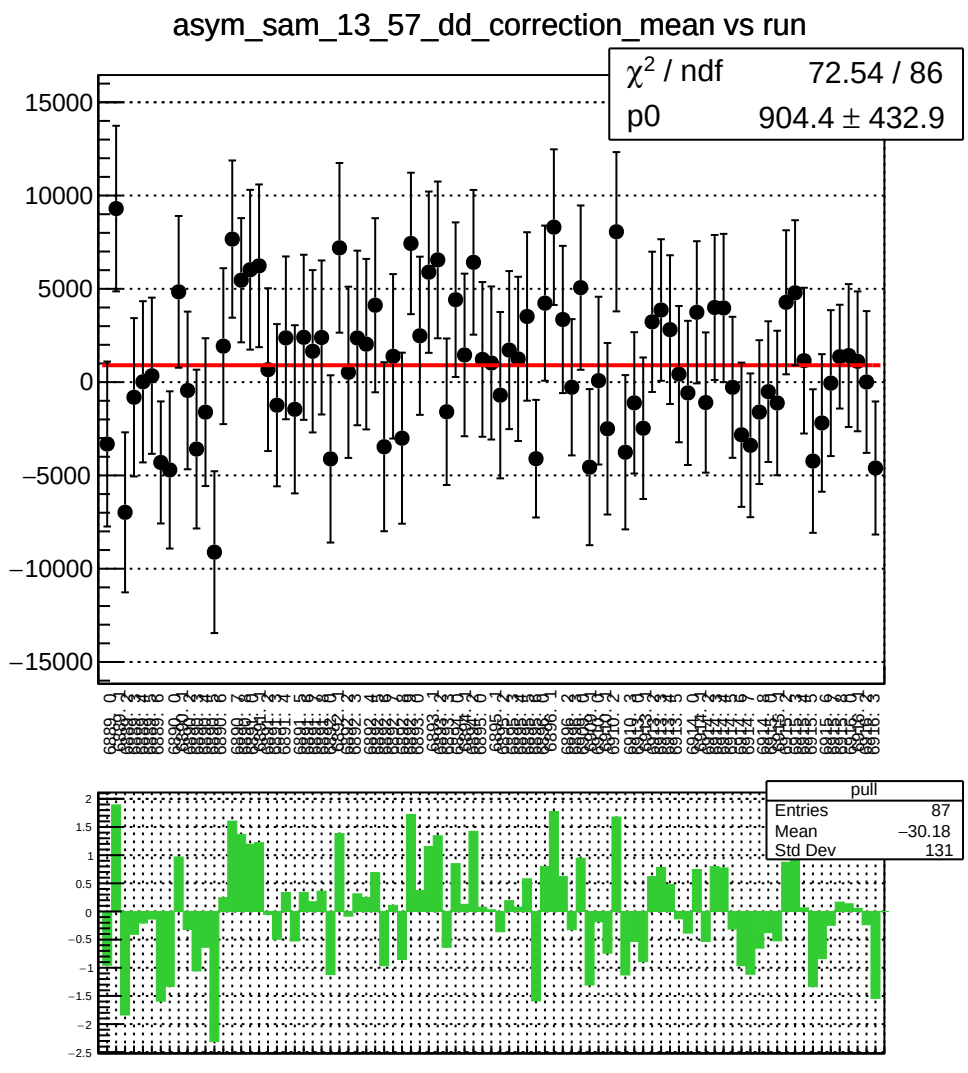

pull1D
Entries 87
Mean −0.01696
Std Dev 0.9083
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

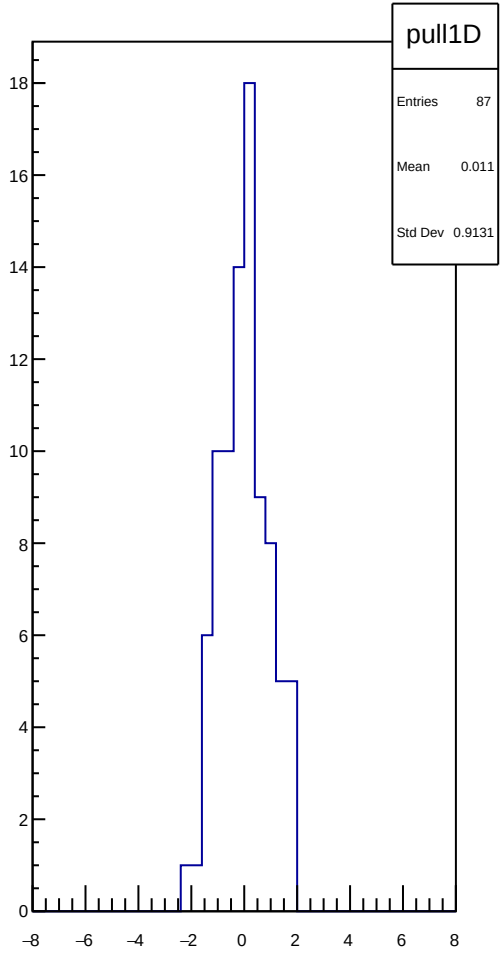

asym_sam_48_dd_rms vs run
χ² / ndf 8504 / 86
p0 1112 ± 0.866
1250
1200
1150
1100
1050
1000
950
900
850

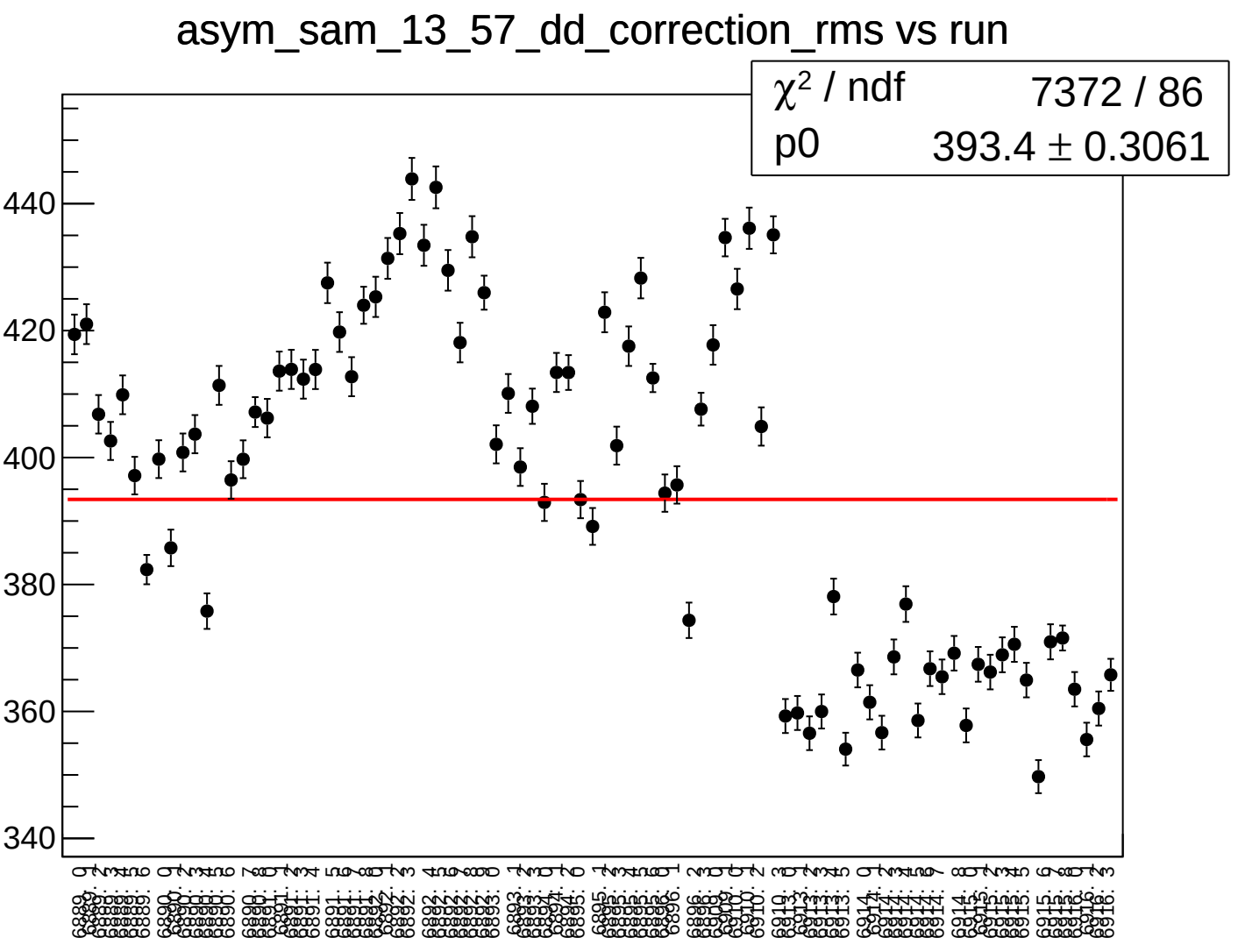

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 73.98 / 86
p0 130.8 ± 69.86
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 13.23
Std Dev 24.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

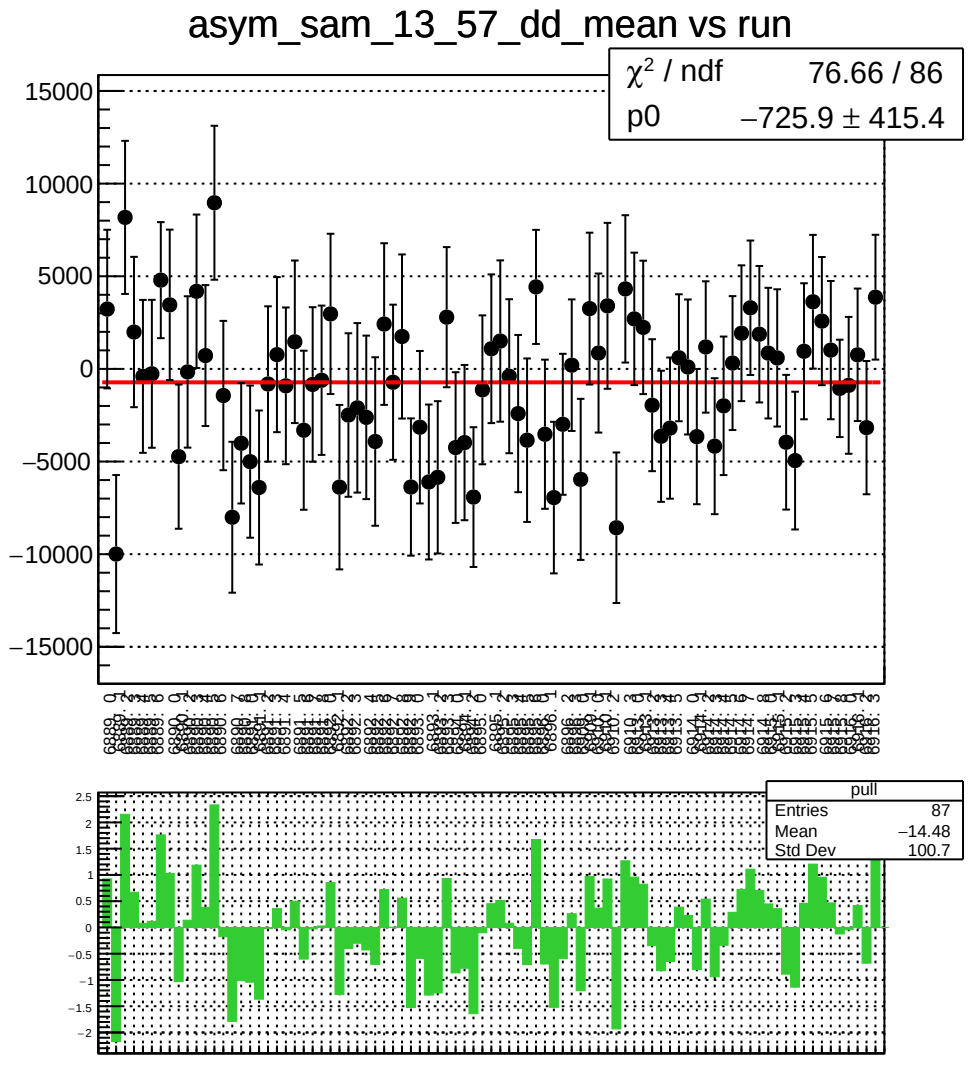

pull1D
Entries 87
Mean −0.01027
Std Dev 0.9221
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

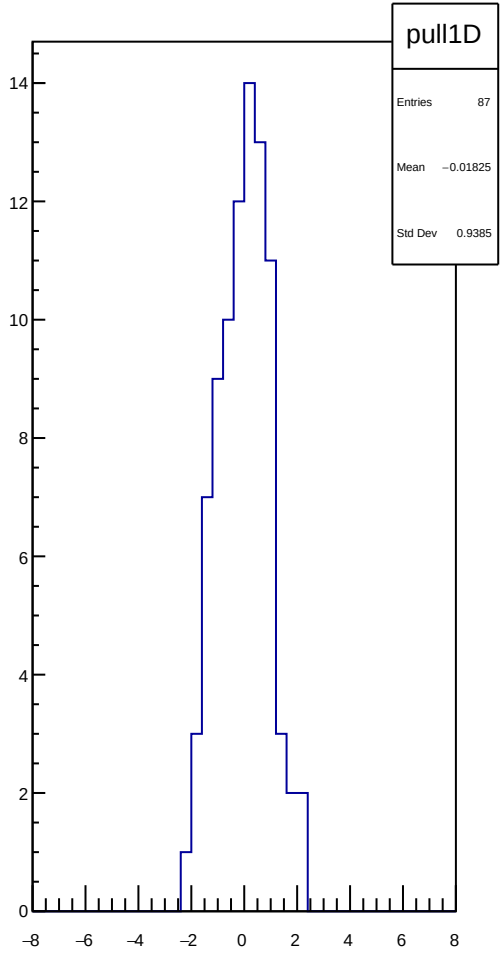

dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 3530 / 86
p0 63.55 ± 0.0494
70
68
66
64
62
60
58
56
54

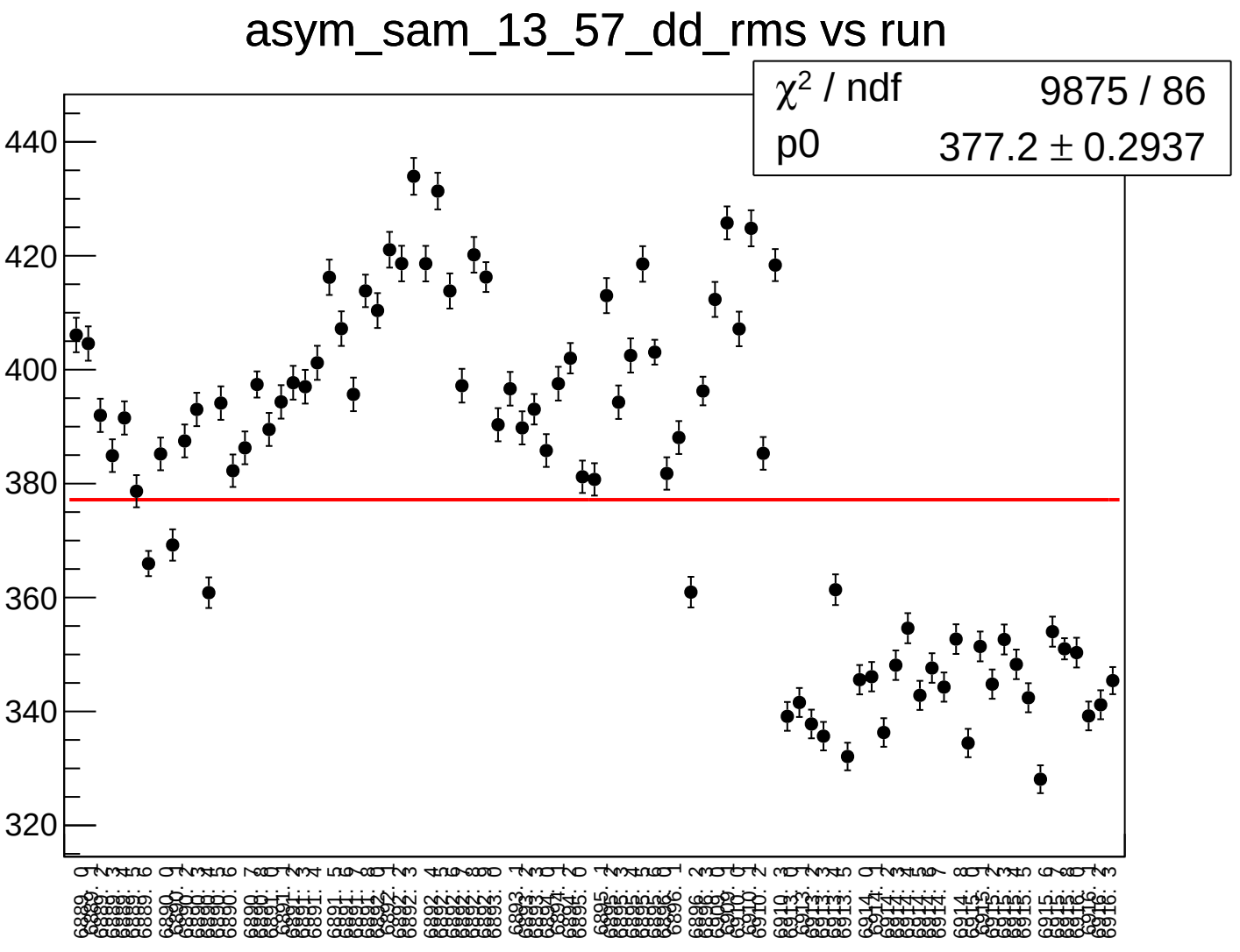

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 72.54 / 86
p0 904.4 ± 432.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −30.18
Std Dev 131
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

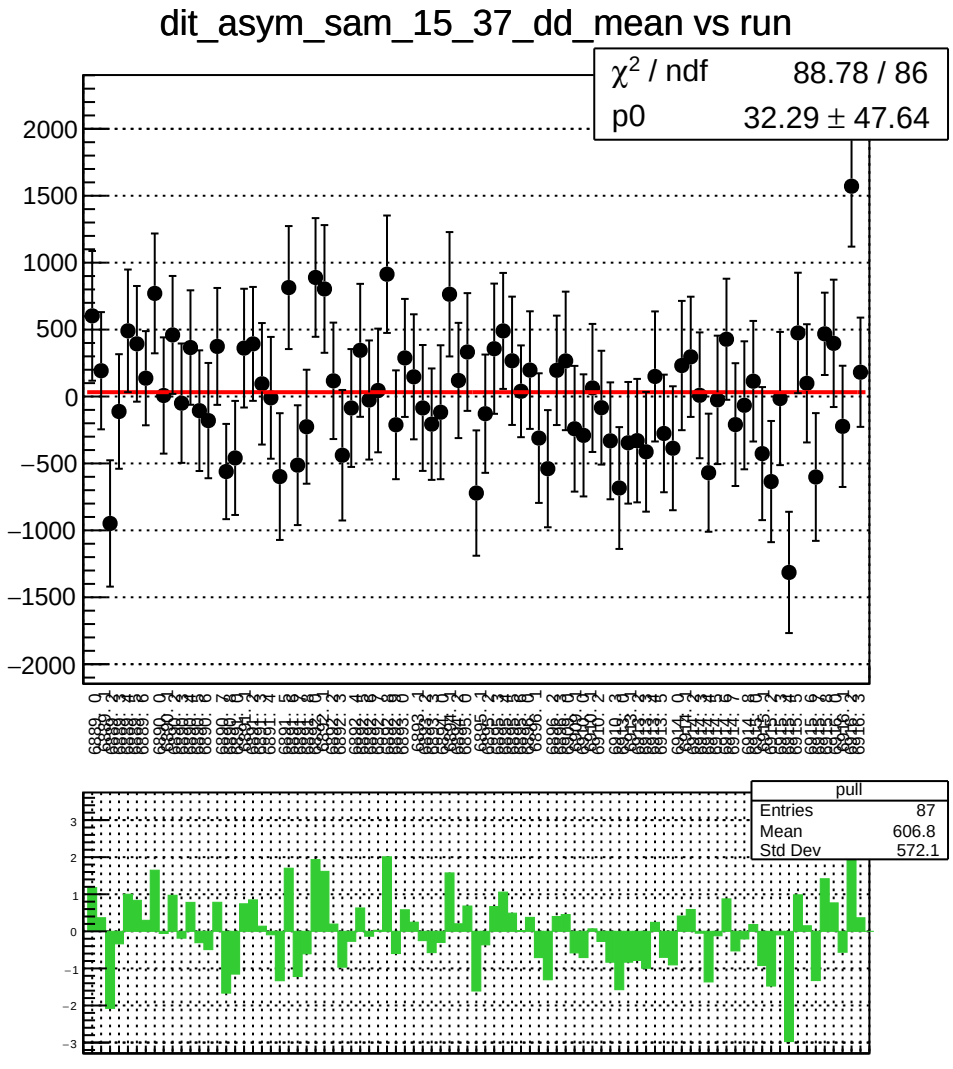

pull1D
Entries 87
Mean 0.011
Std Dev 0.9131
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

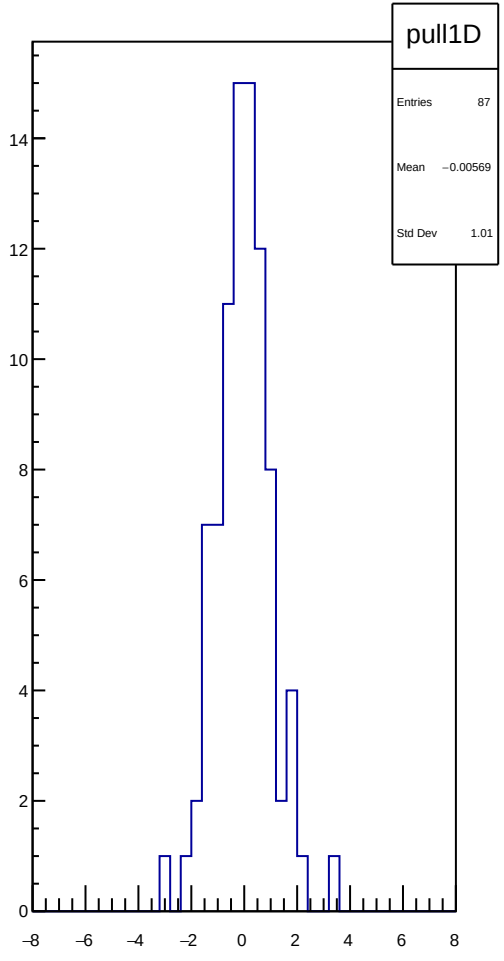

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 7372 / 86
p0 393.4 ± 0.3061
440
420
400
380
360
340

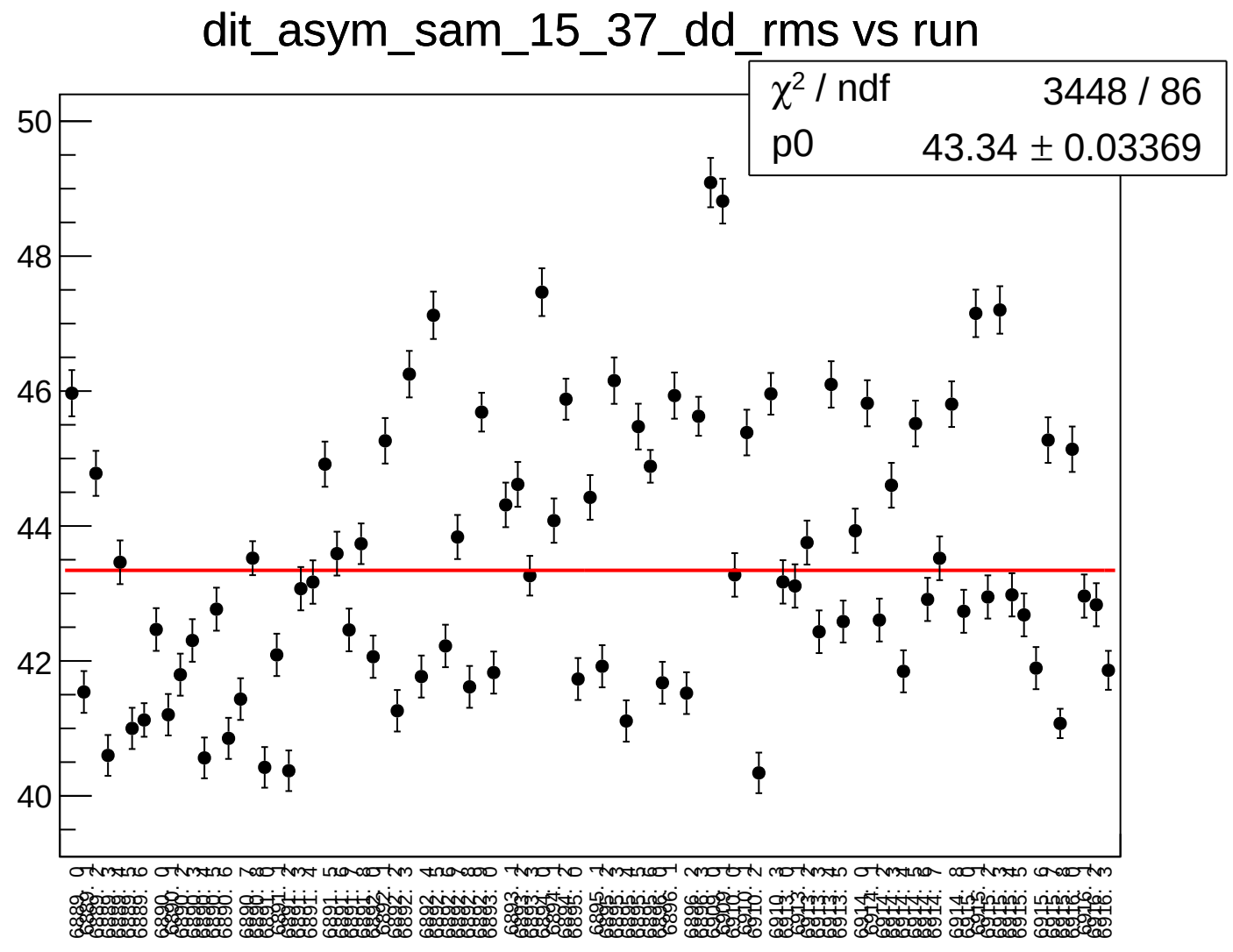

asym_sam_13_57_dd_mean vs run
χ² / ndf 76.66 / 86
p0 −725.9 ± 415.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −14.48
Std Dev 100.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

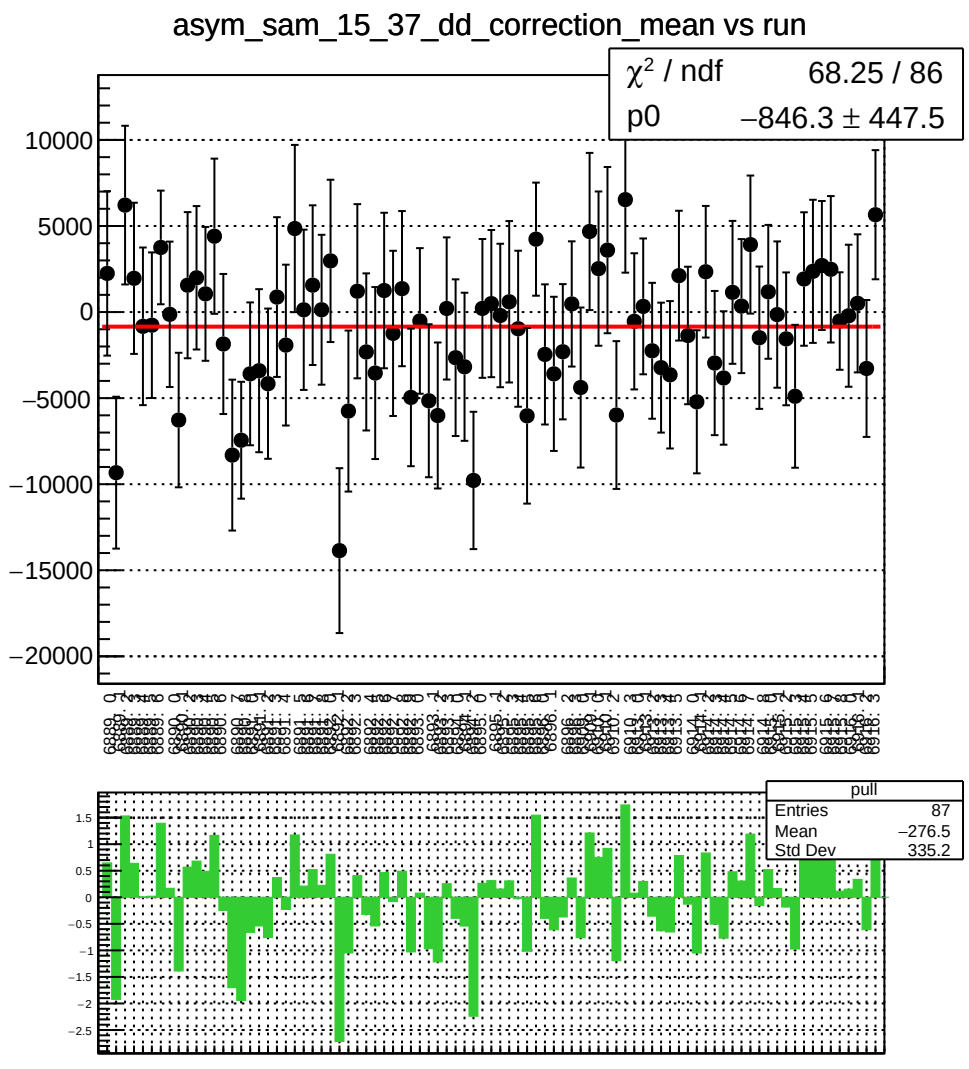

pull1D
Entries 87
Mean −0.01825
Std Dev 0.9385
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

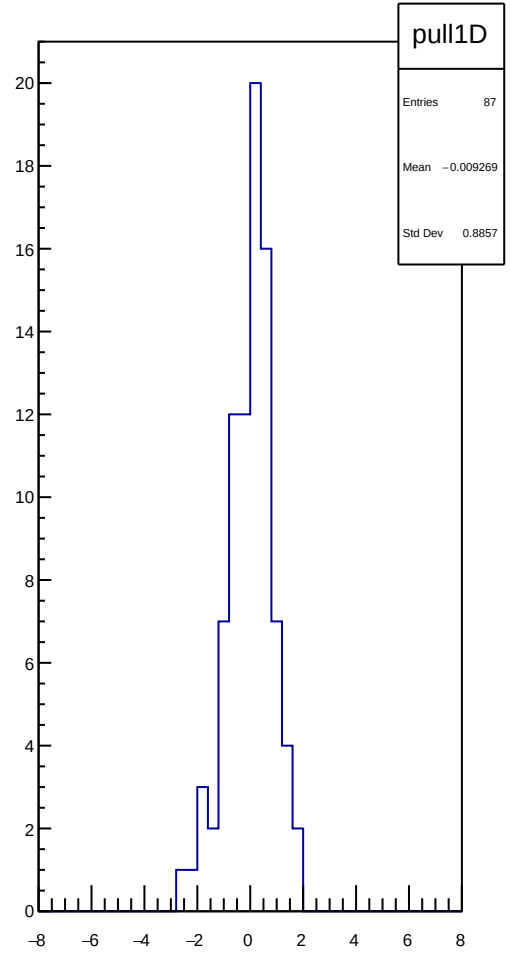

asym_sam_13_57_dd_rms vs run
χ^2 / ndf 9875 / 86
p0 377.2 ± 0.2937
440
420
400
380
360
340
320

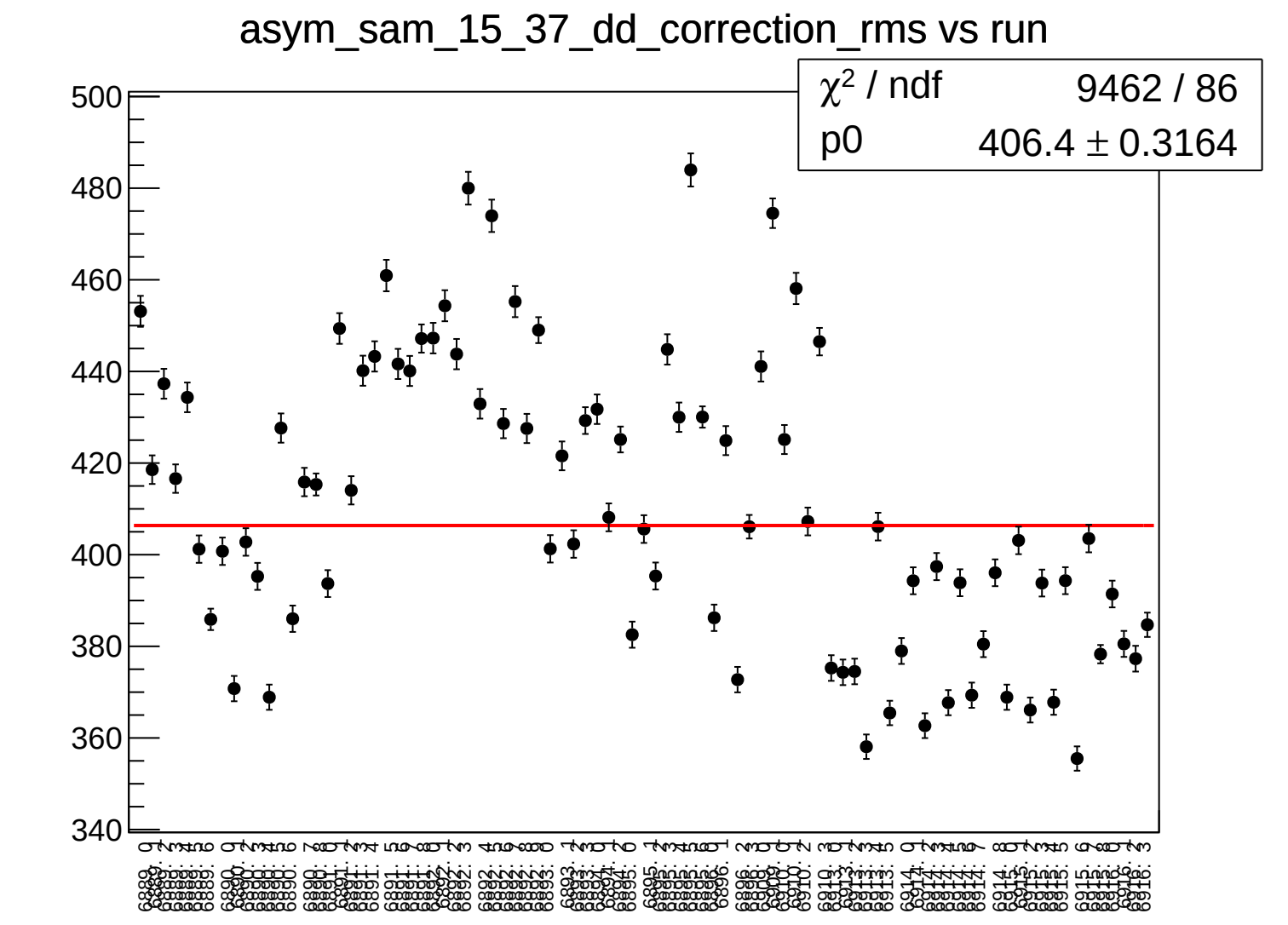

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 88.78 / 86
p0 32.29 ± 47.64
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 87
Mean 606.8
Std Dev 572.1
3
2
1
0
−1
−2
−3

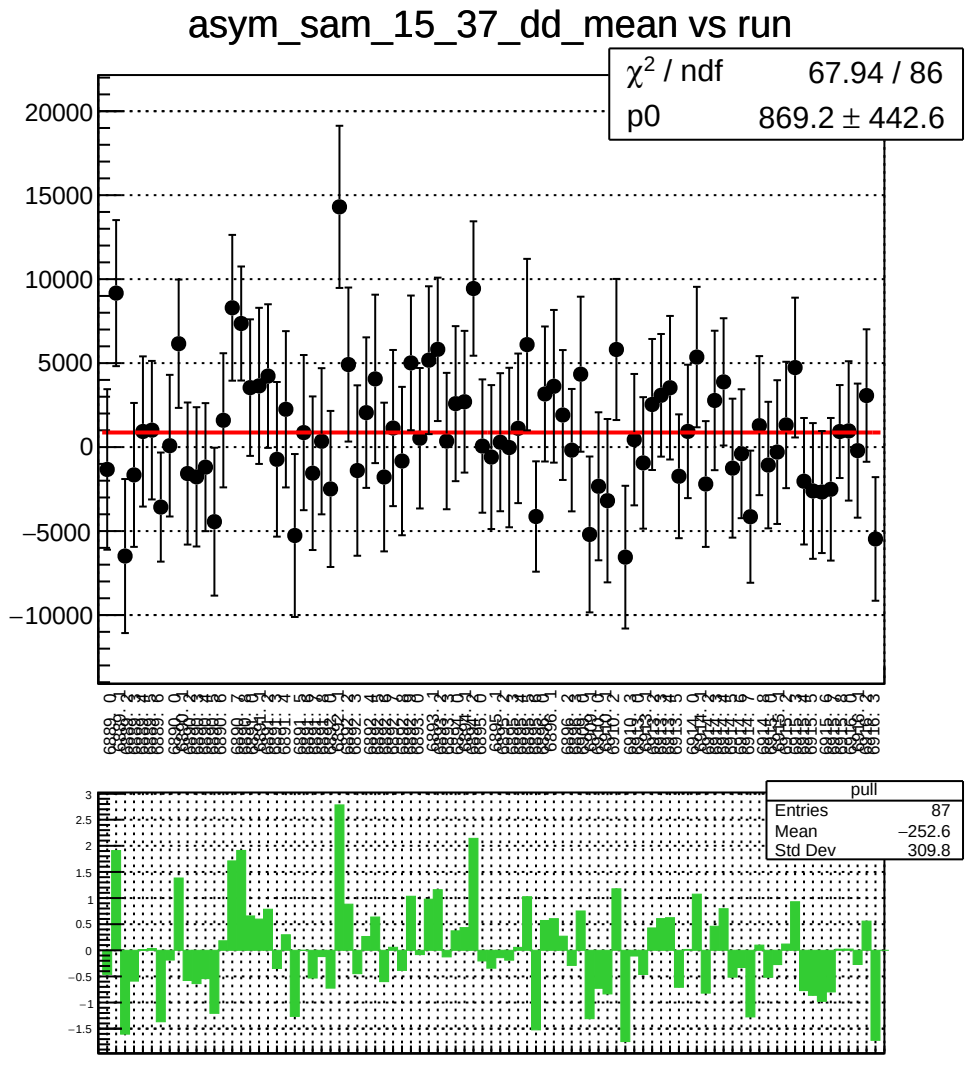

pull1D
Entries 87
Mean −0.00569
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

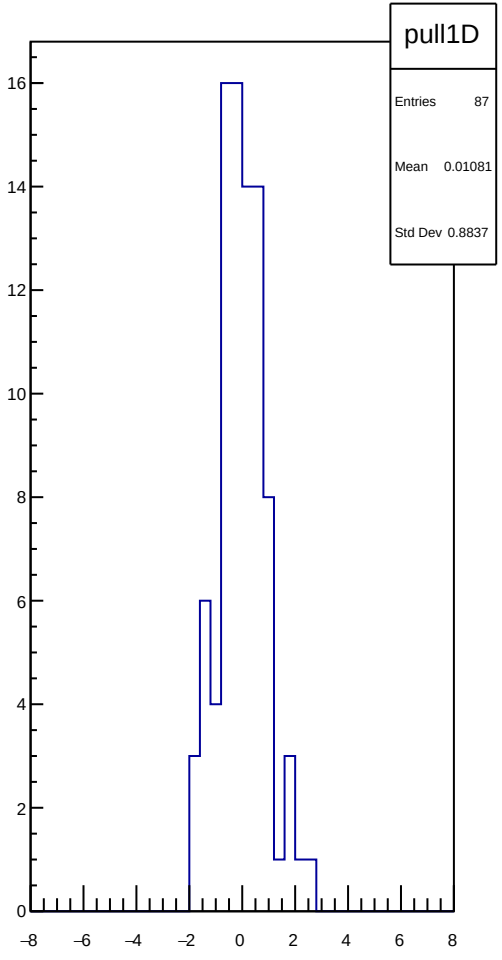

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 3448 / 86
p0 43.34 ± 0.03369
50
48
46
44
42
40

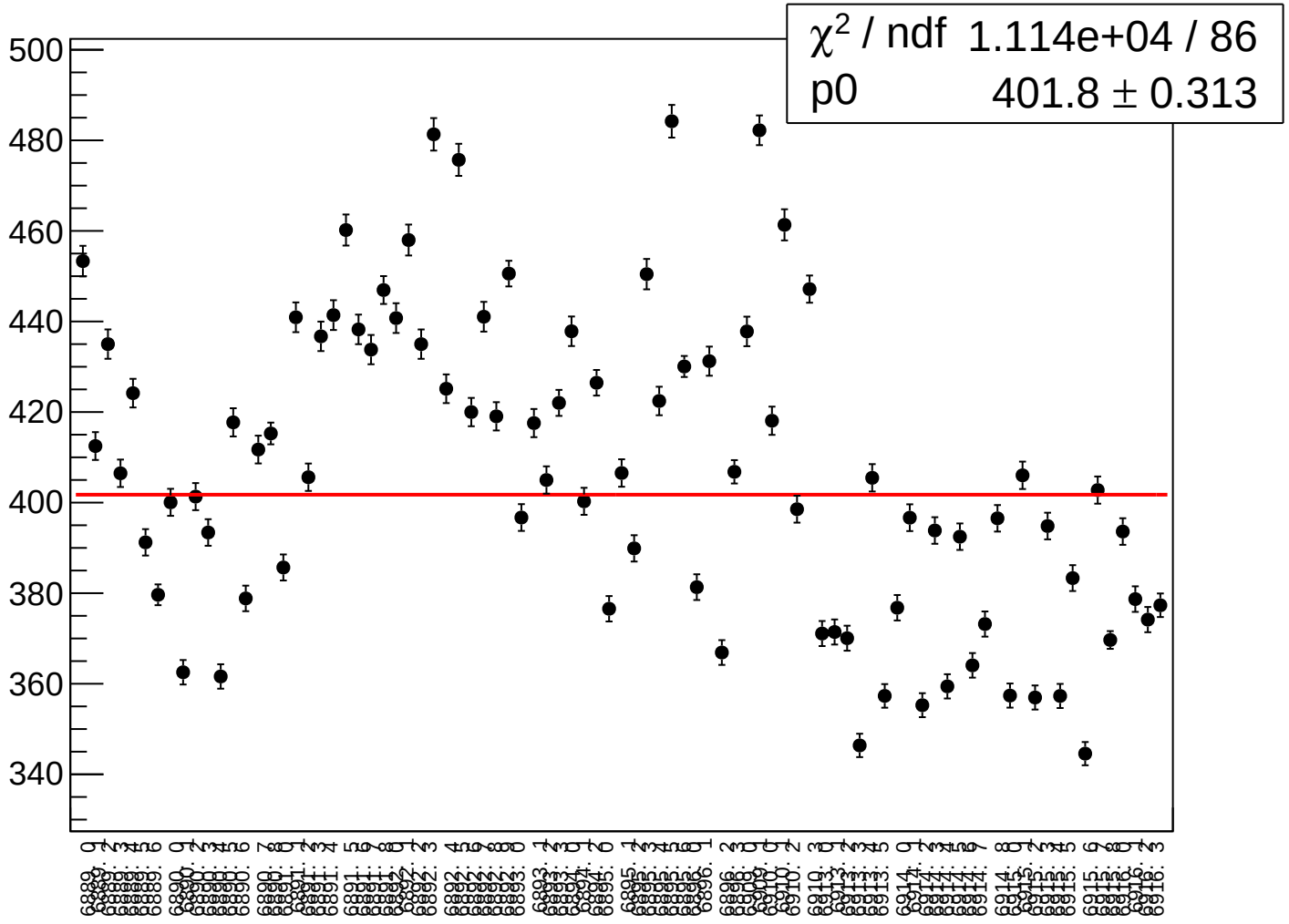

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 68.25 / 86
p0 −846.3 ± 447.5
pull
Entries 87
Mean −276.5
Std Dev 335.2

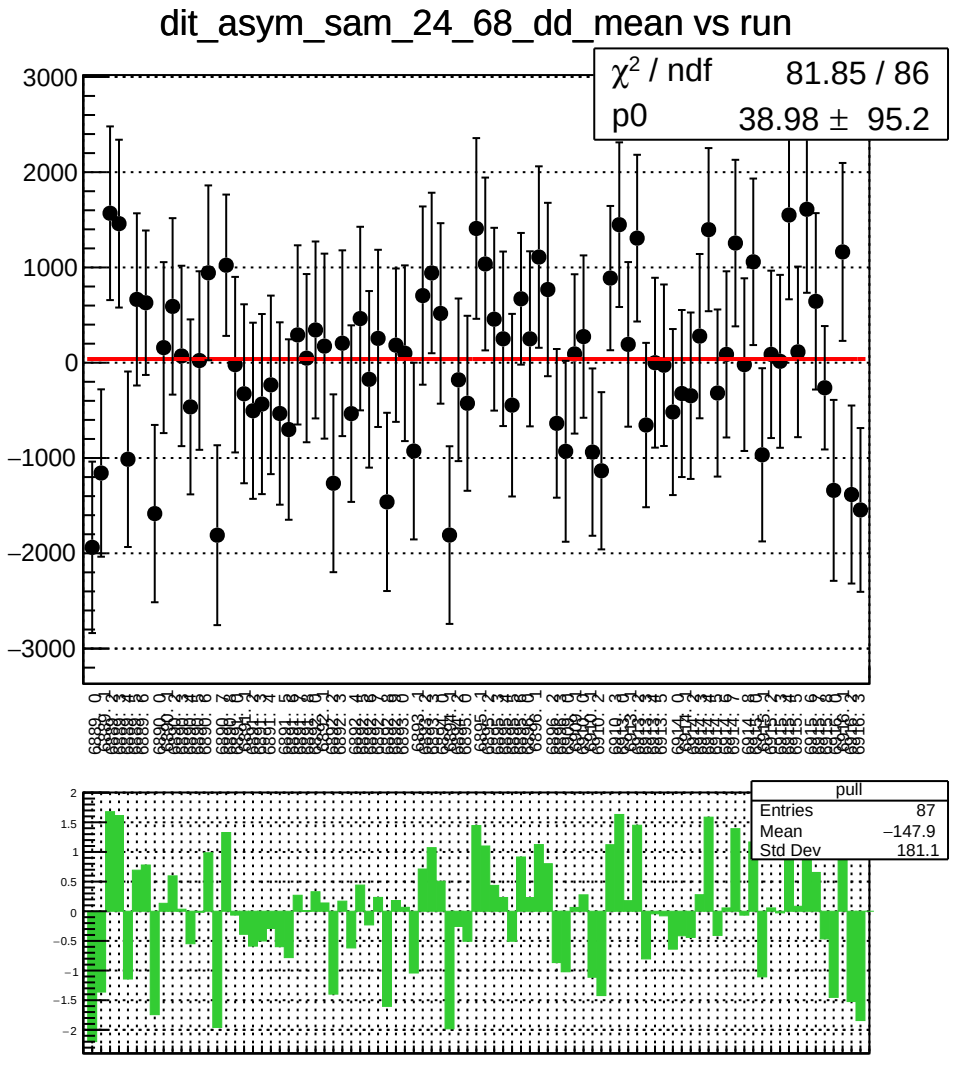

pull1D
Entries 87
Mean −0.009269
Std Dev 0.8857

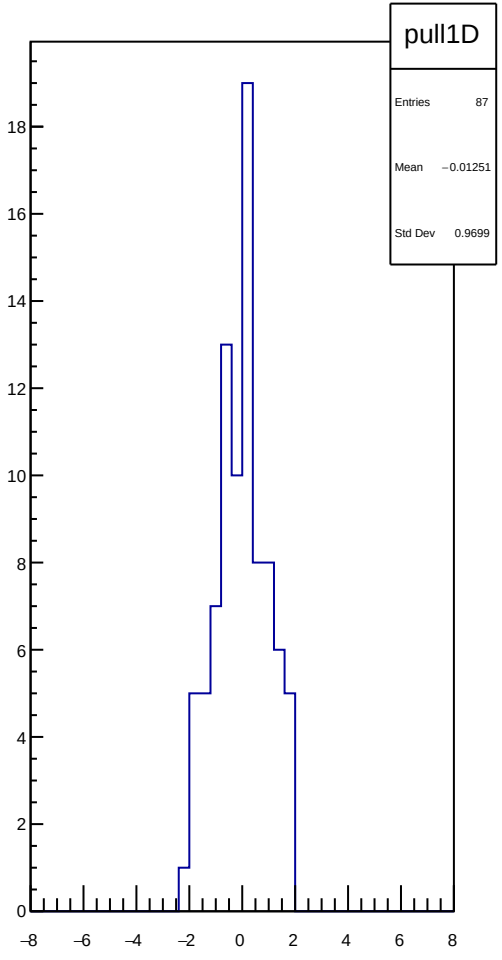

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 9462 / 86
p0 406.4 ± 0.3164
500
480
460
440
420
400
380
360
340

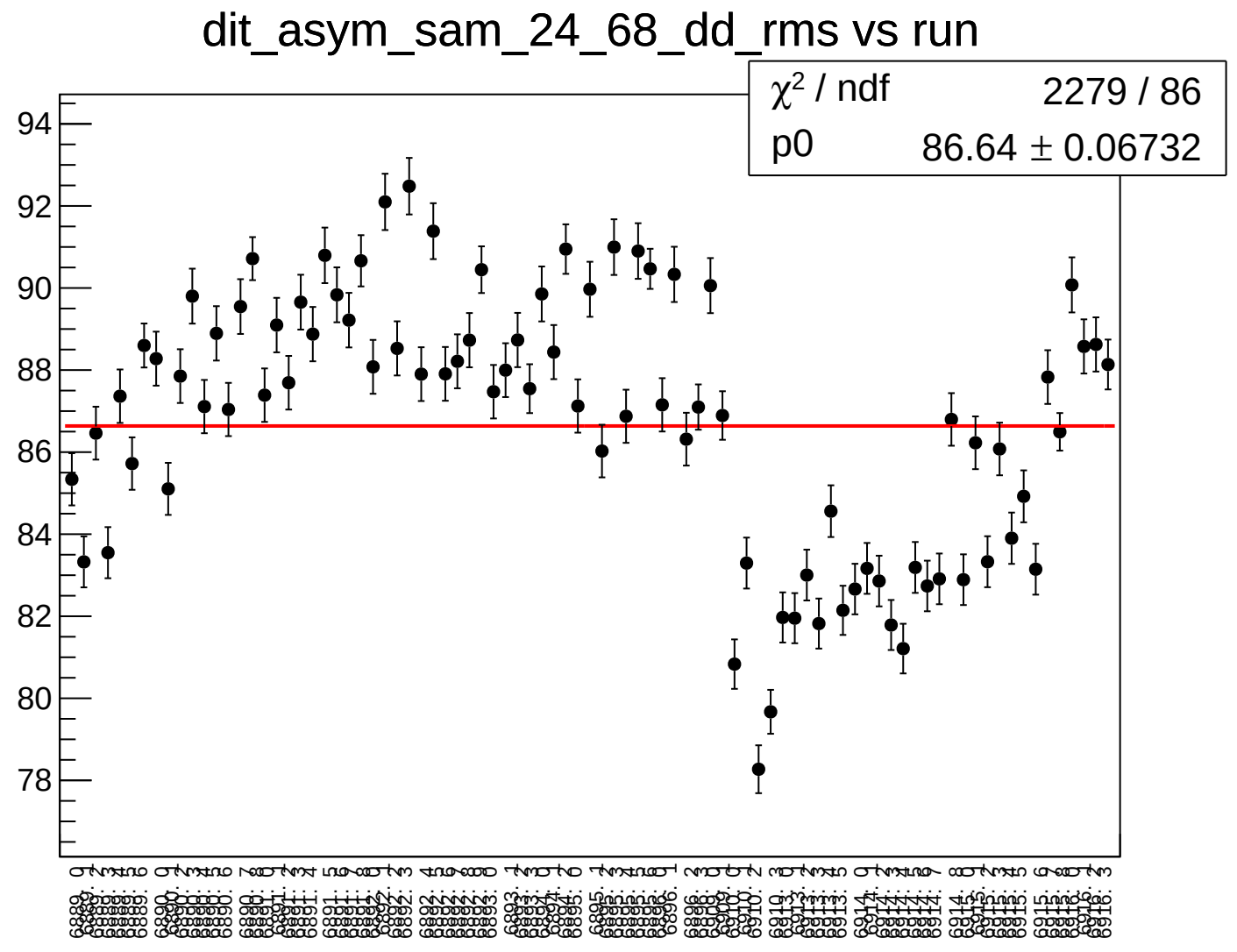

asym_sam_15_37_dd_mean vs run
χ² / ndf 67.94 / 86
p0 869.2 ± 442.6
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −252.6
Std Dev 309.8
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

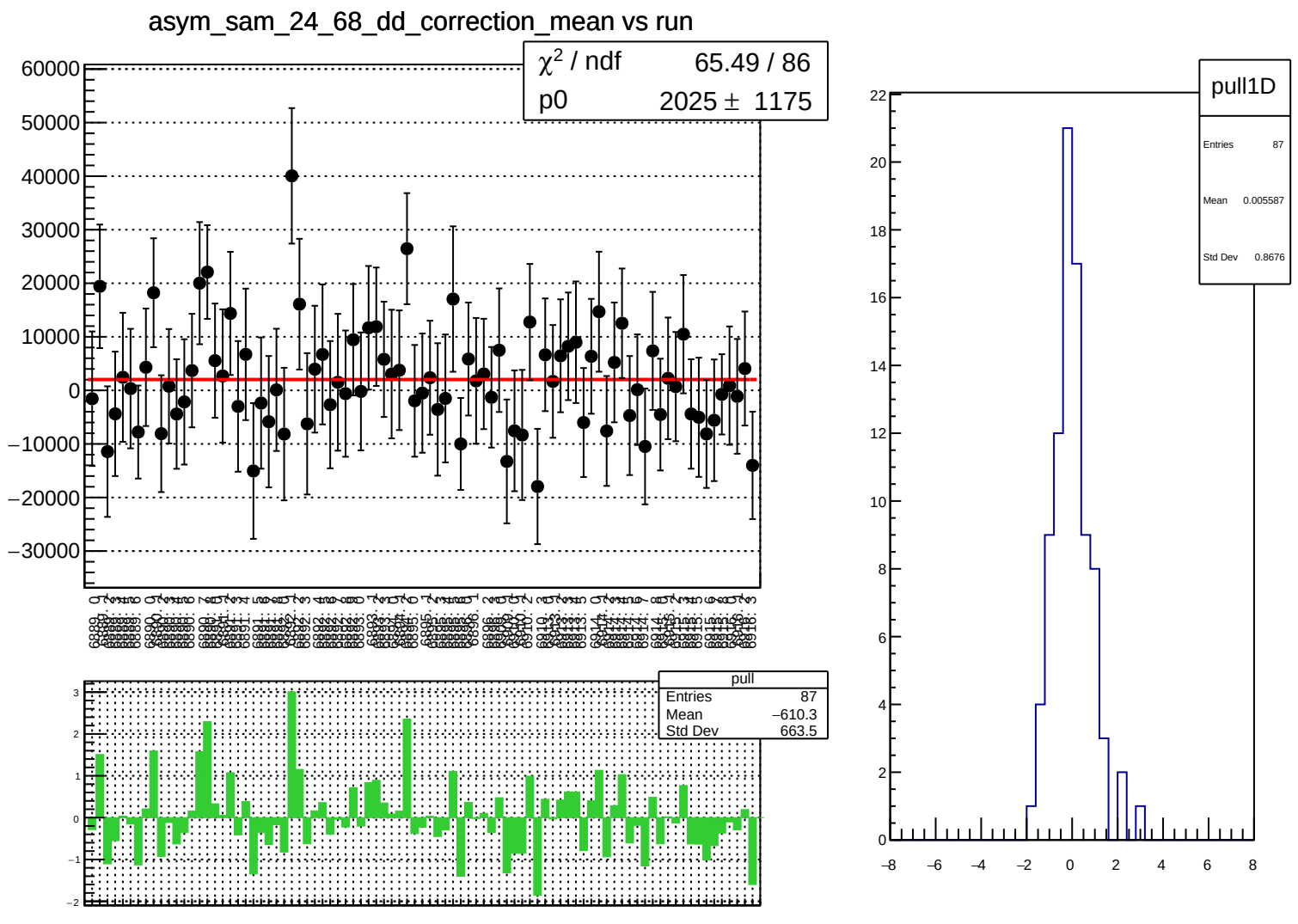

pull1D
Entries 87
Mean 0.01081
Std Dev 0.8837
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

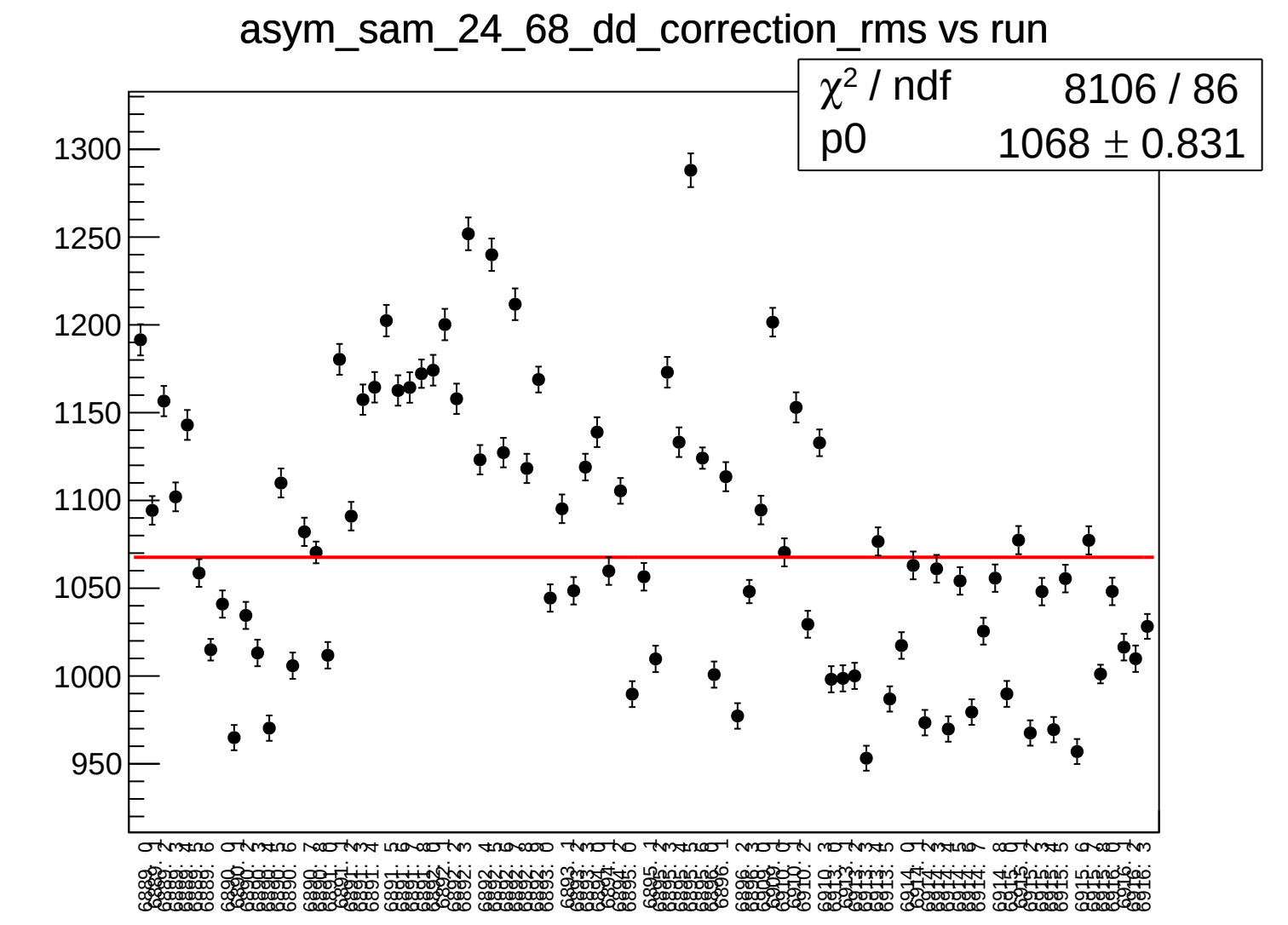

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.114e+04 / 86
p0 401.8 ± 0.313
500
480
460
440
420
400
380
360
340

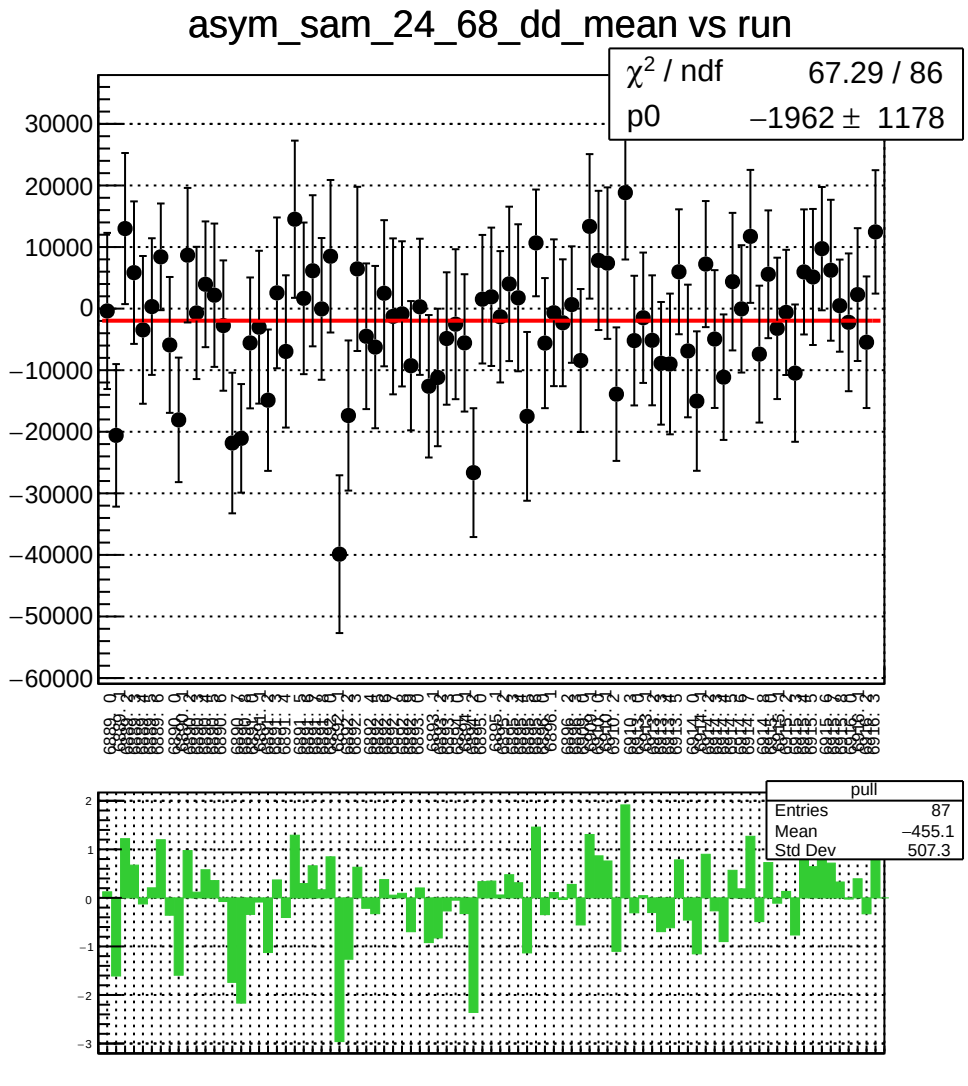

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 81.85 / 86
p0 38.98 ± 95.2
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean −147.9
Std Dev 181.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

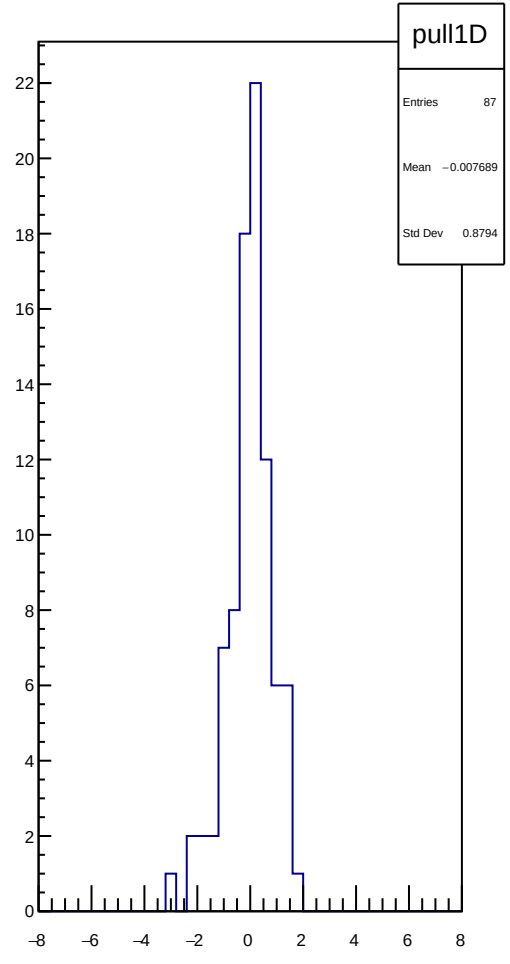

pull1D
Entries 87
Mean −0.01251
Std Dev 0.9699
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

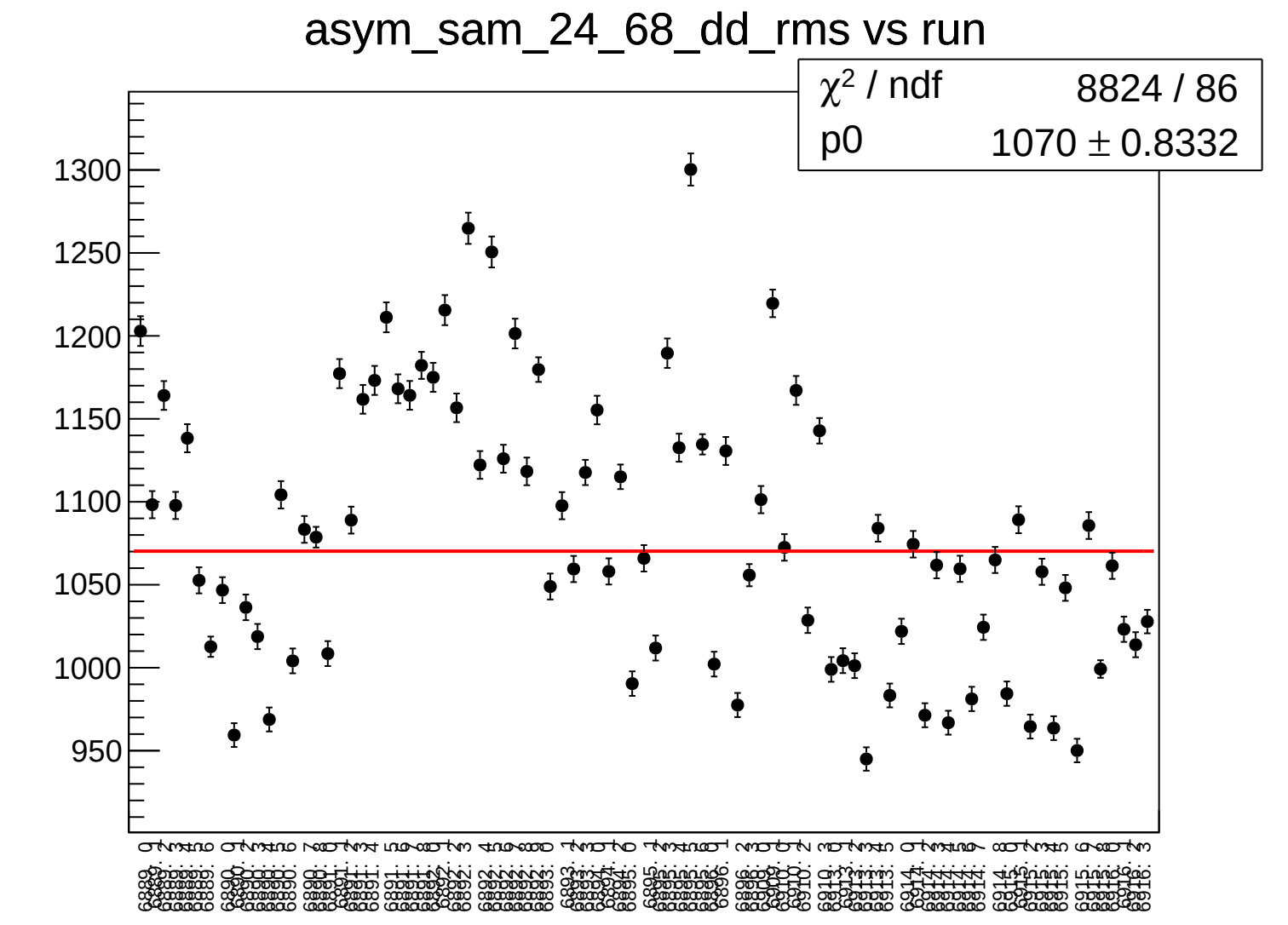

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 2279 / 86
p0 86.64 ± 0.06732
94
92
90
88
86
84
82
80
78

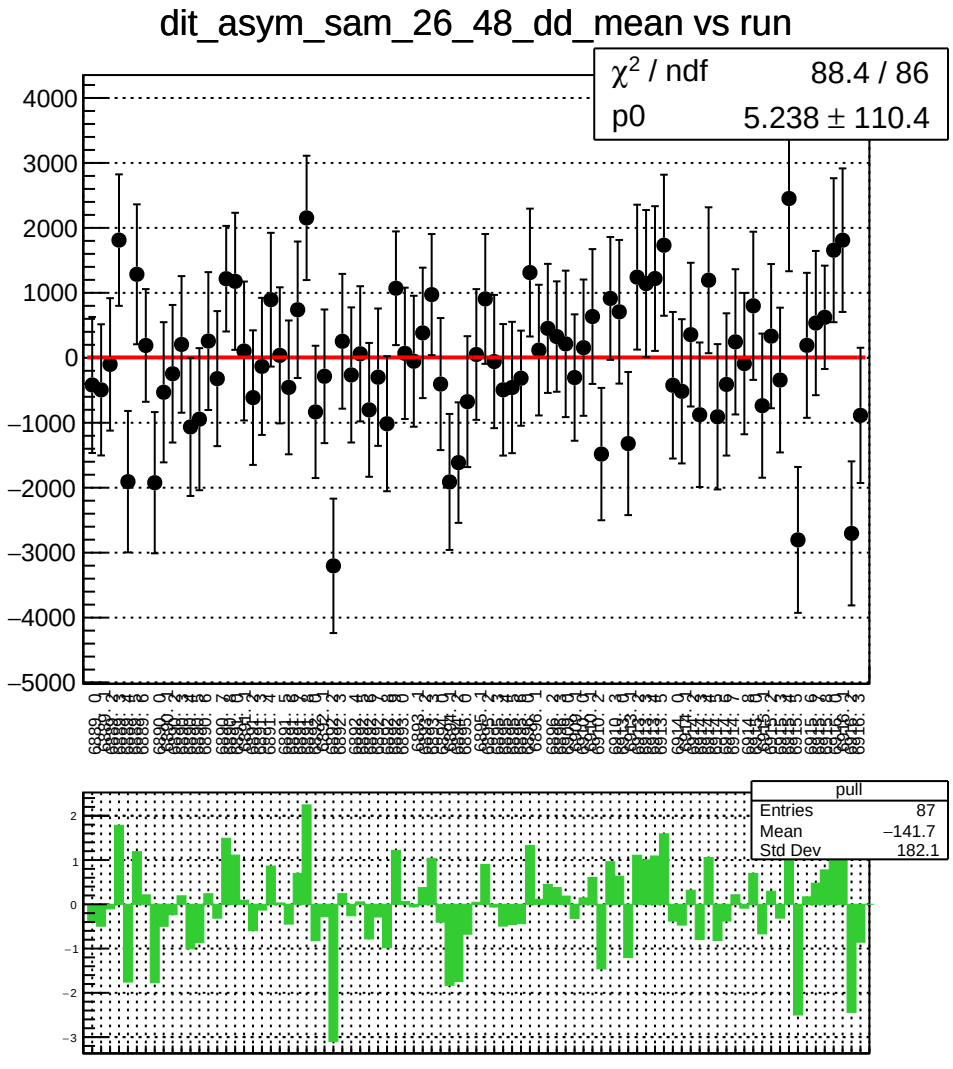

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 65.49 / 86
p0 2025 ± 1175
pull
Entries 87
Mean −610.3
Std Dev 663.5
pull1D
Entries 87
Mean 0.005587
Std Dev 0.8676

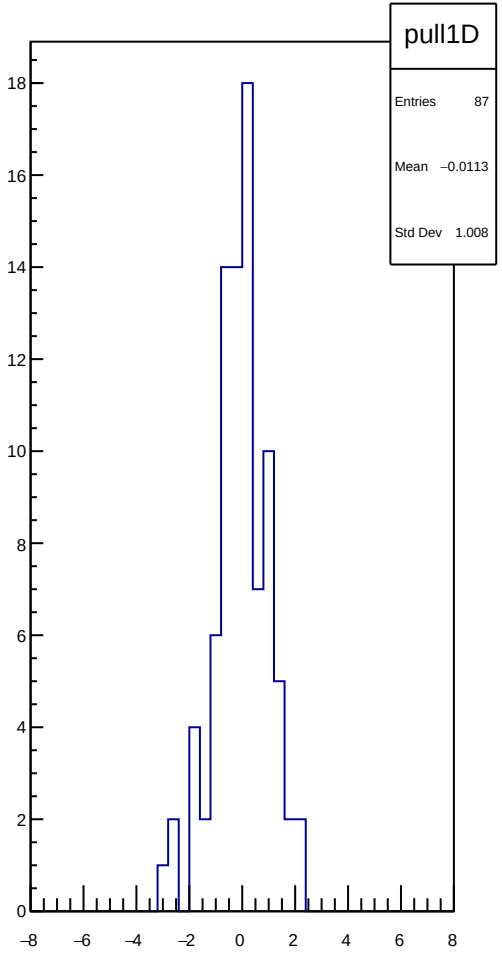

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 8106 / 86
p0 1068 ± 0.831
1300
1250
1200
1150
1100
1050
1000
950

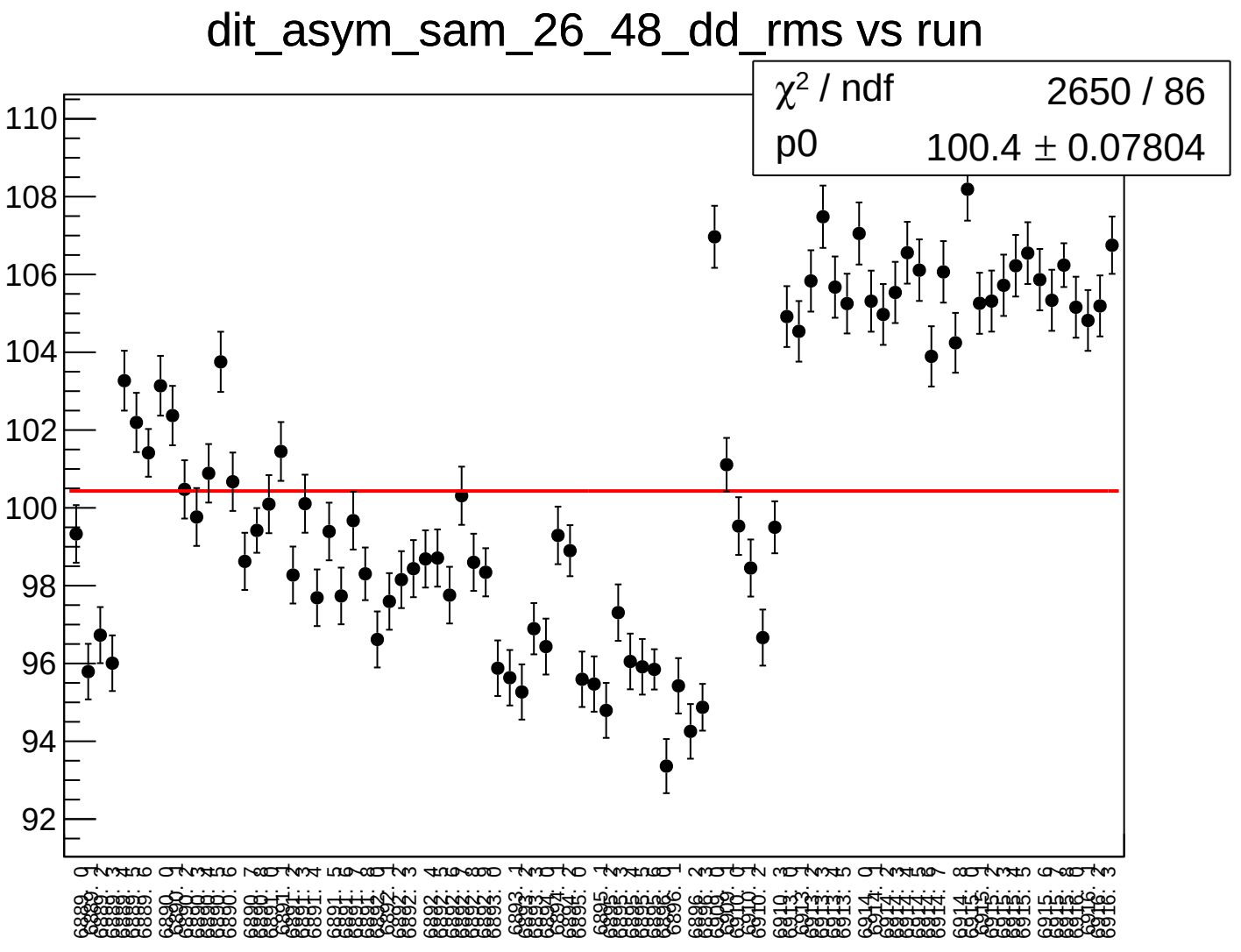

asym_sam_24_68_dd_mean vs run
χ^2 / ndf 67.29 / 86
p0 −1962 ± 1178
pull
Entries 87
Mean −455.1
Std Dev 507.3

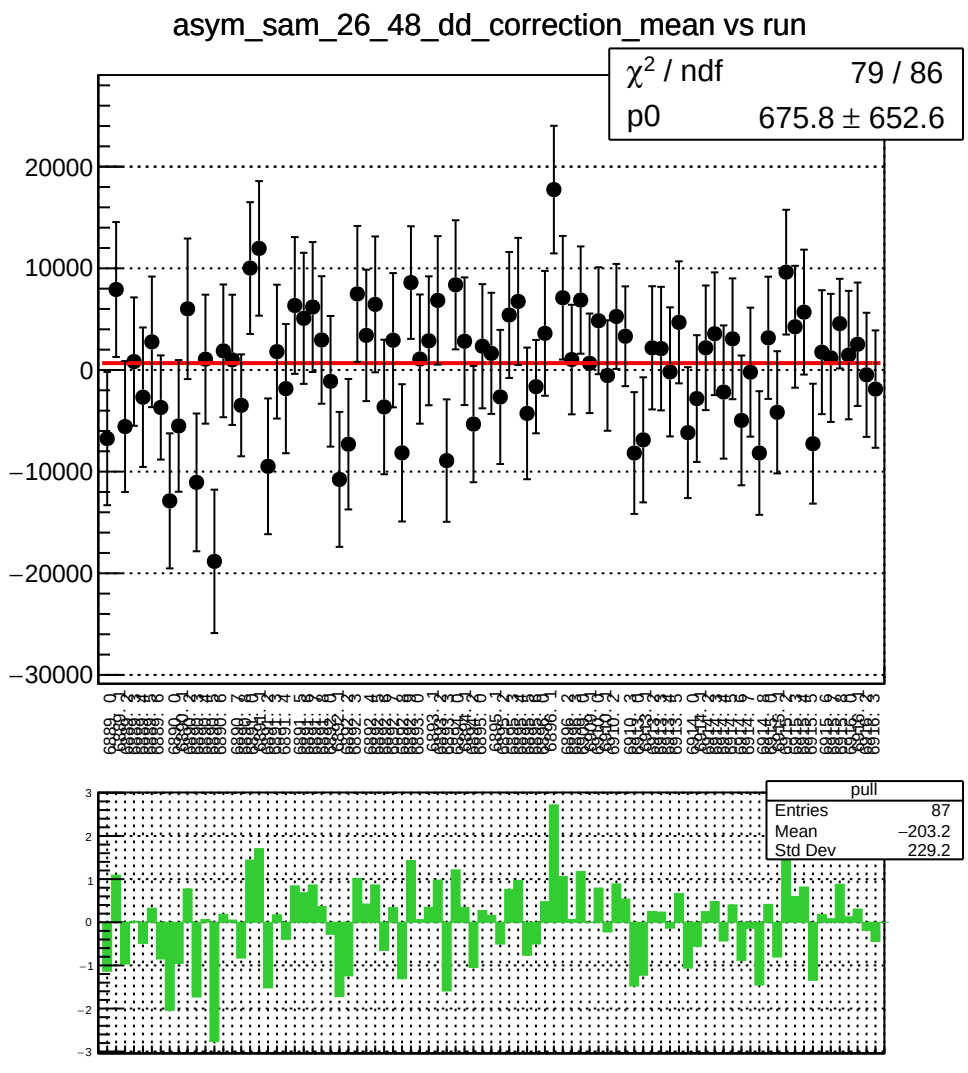

pull1D
Entries 87
Mean −0.007689
Std Dev 0.8794

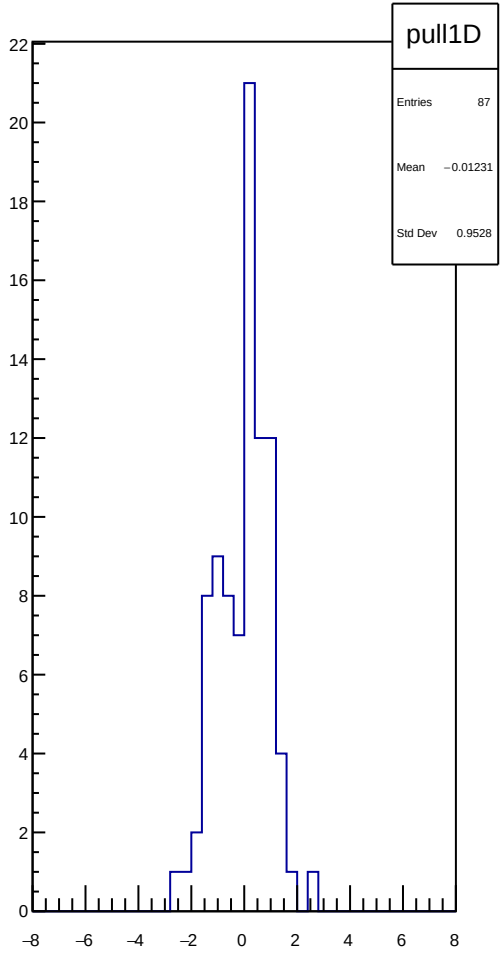

asym_sam_24_68_dd_rms vs run
χ² / ndf 8824 / 86
p0 1070 ± 0.8332
1300
1250
1200
1150
1100
1050
1000
950

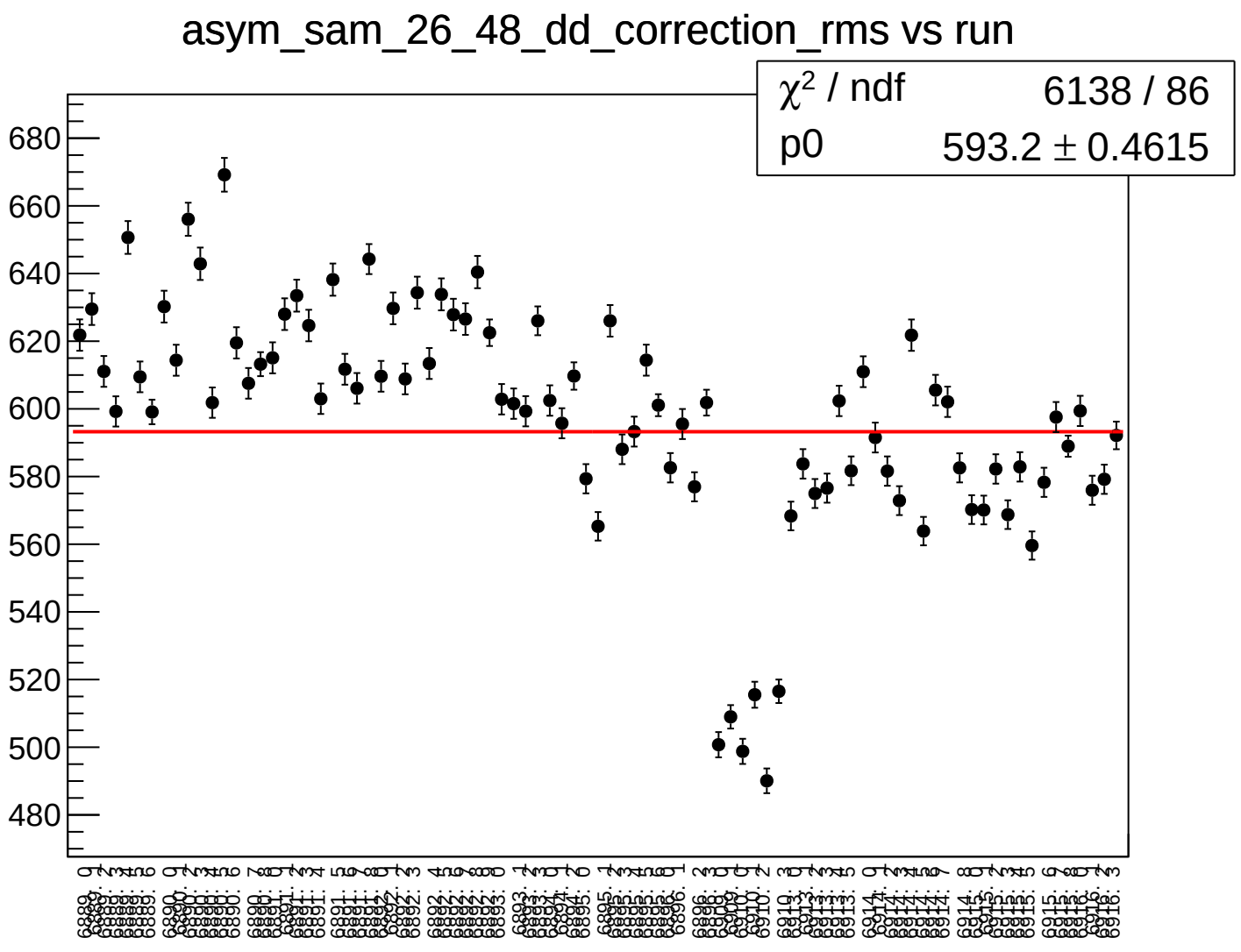

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 88.4 / 86
p0 5.238 ± 110.4
pull
Entries 87
Mean −141.7
Std Dev 182.1

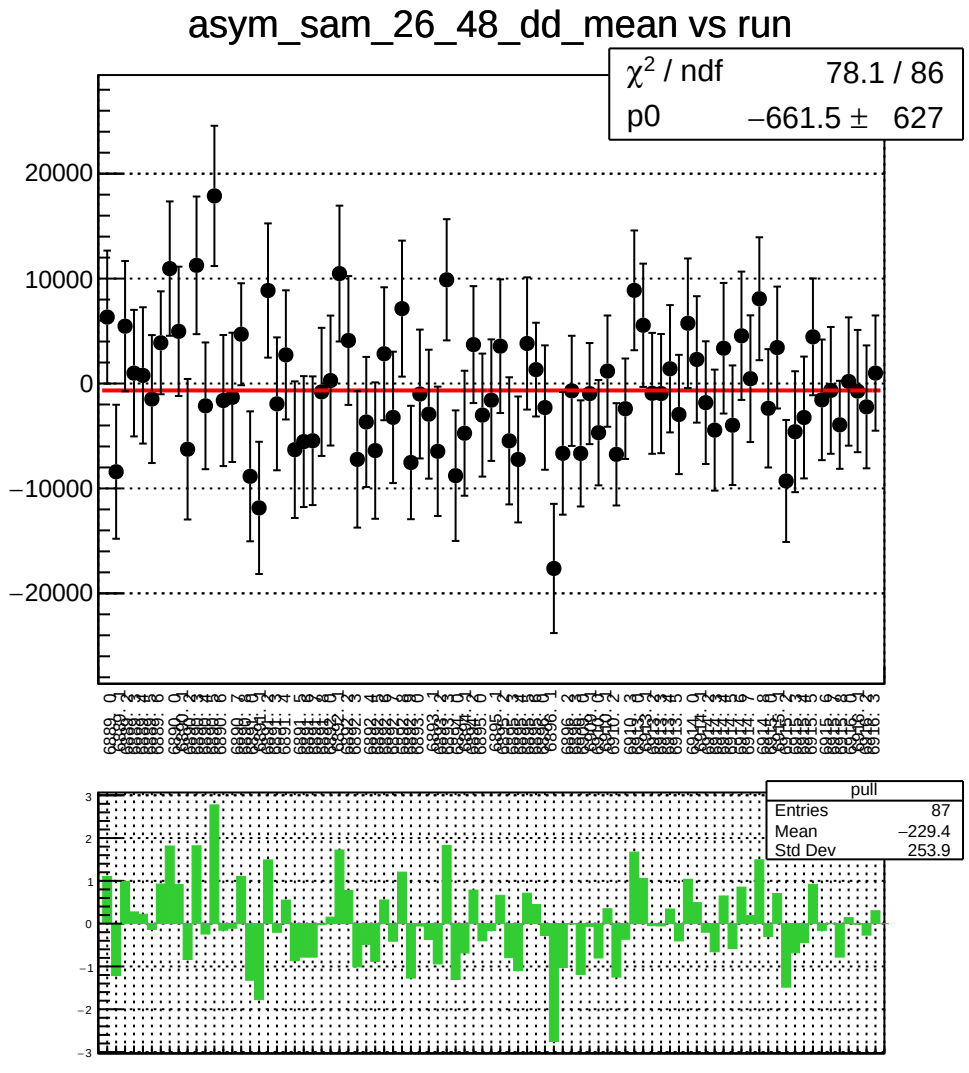

pull1D
Entries 87
Mean −0.0113
Std Dev 1.008

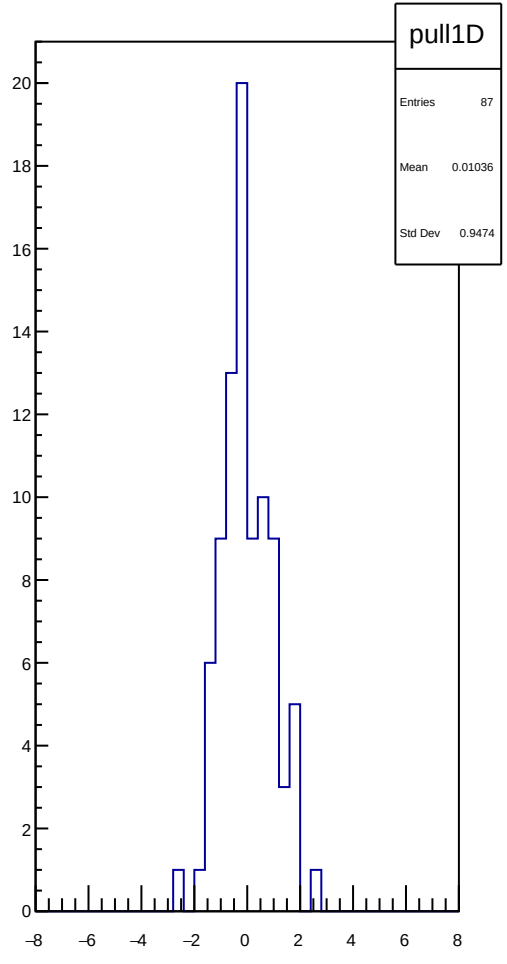

dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 2650 / 86
p0 100.4 ± 0.07804
110
108
106
104
102
100
98
96
94
92

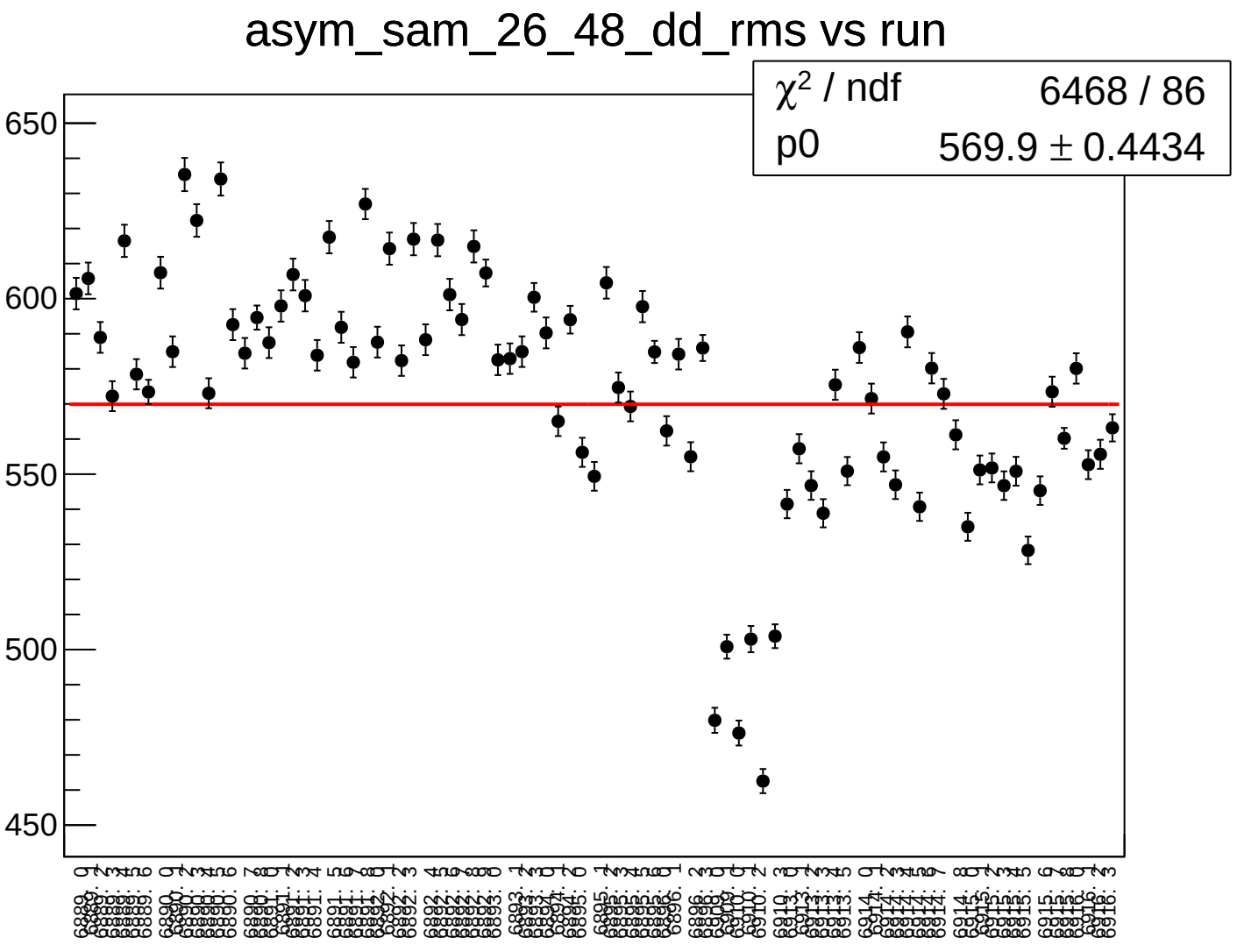

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 79 / 86
p0 675.8 ± 652.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −203.2
Std Dev 229.2
3
2
1
0
−1
−2
−3

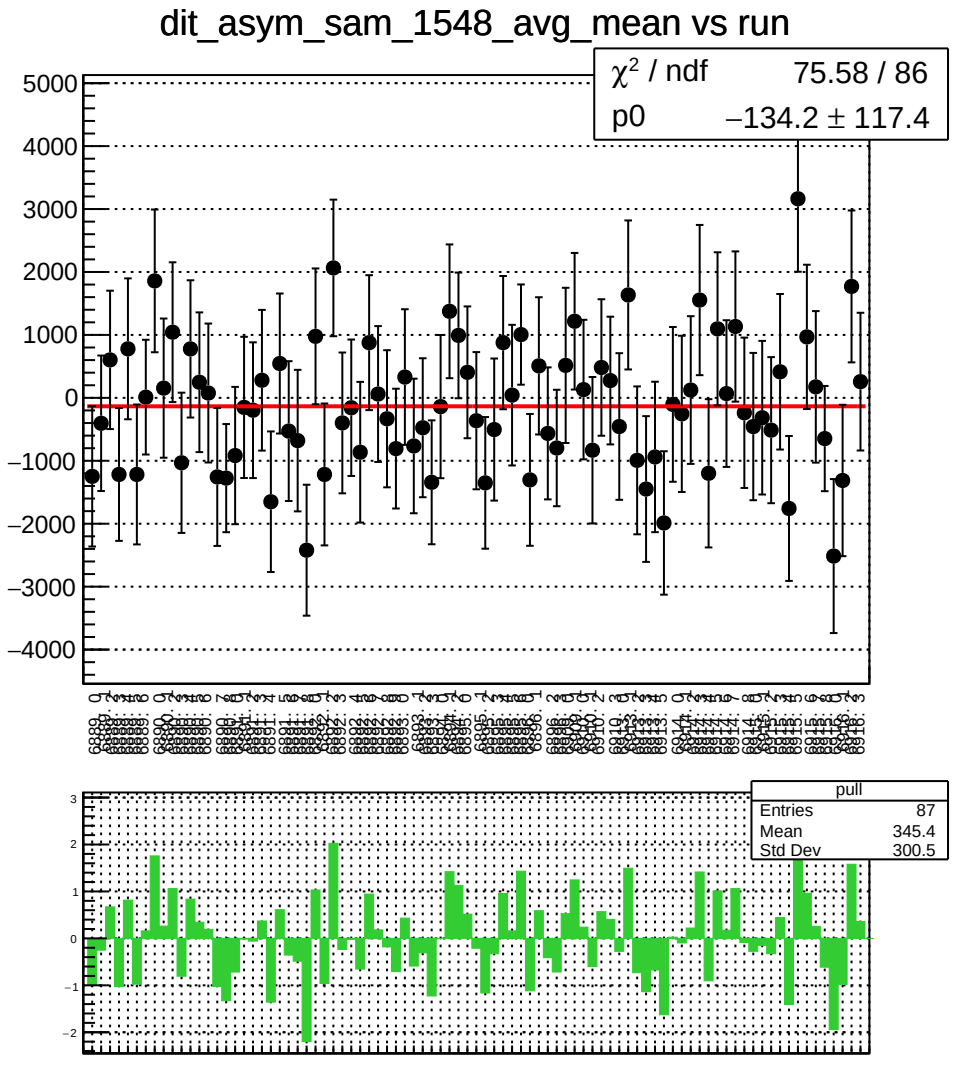

pull1D
Entries 87
Mean −0.01231
Std Dev 0.9528
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

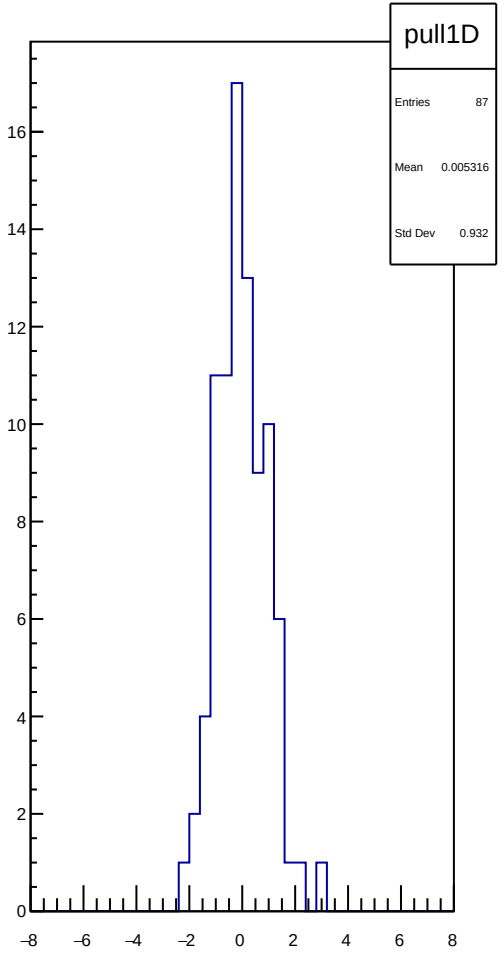

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 6138 / 86
p0 593.2 ± 0.4615
680
660
640
620
600
580
560
540
520
500
480

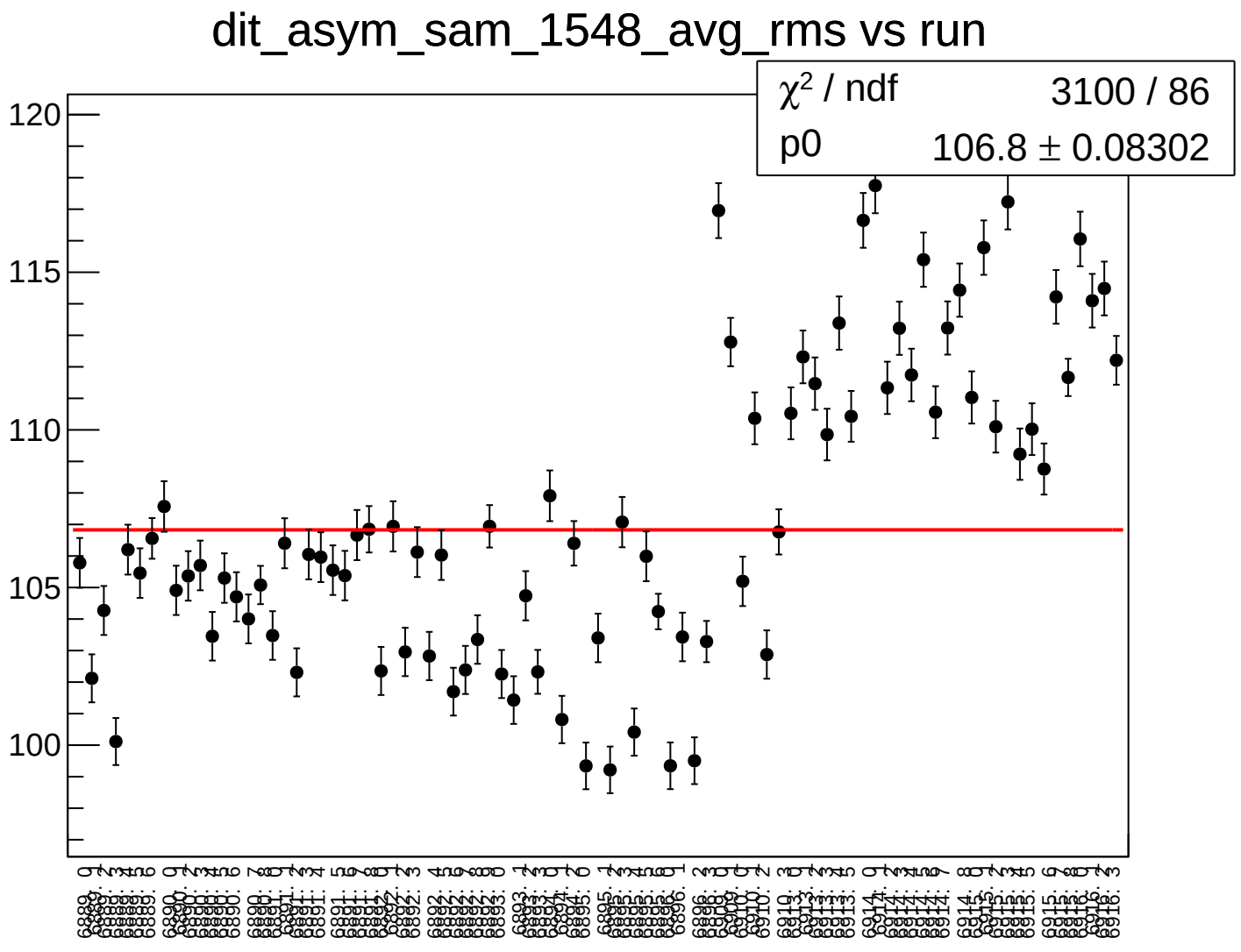

asym_sam_26_48_dd_mean vs run
χ² / ndf 78.1 / 86
p0 −661.5 ± 627
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −229.4
Std Dev 253.9
3
2
1
0
−1
−2
−3

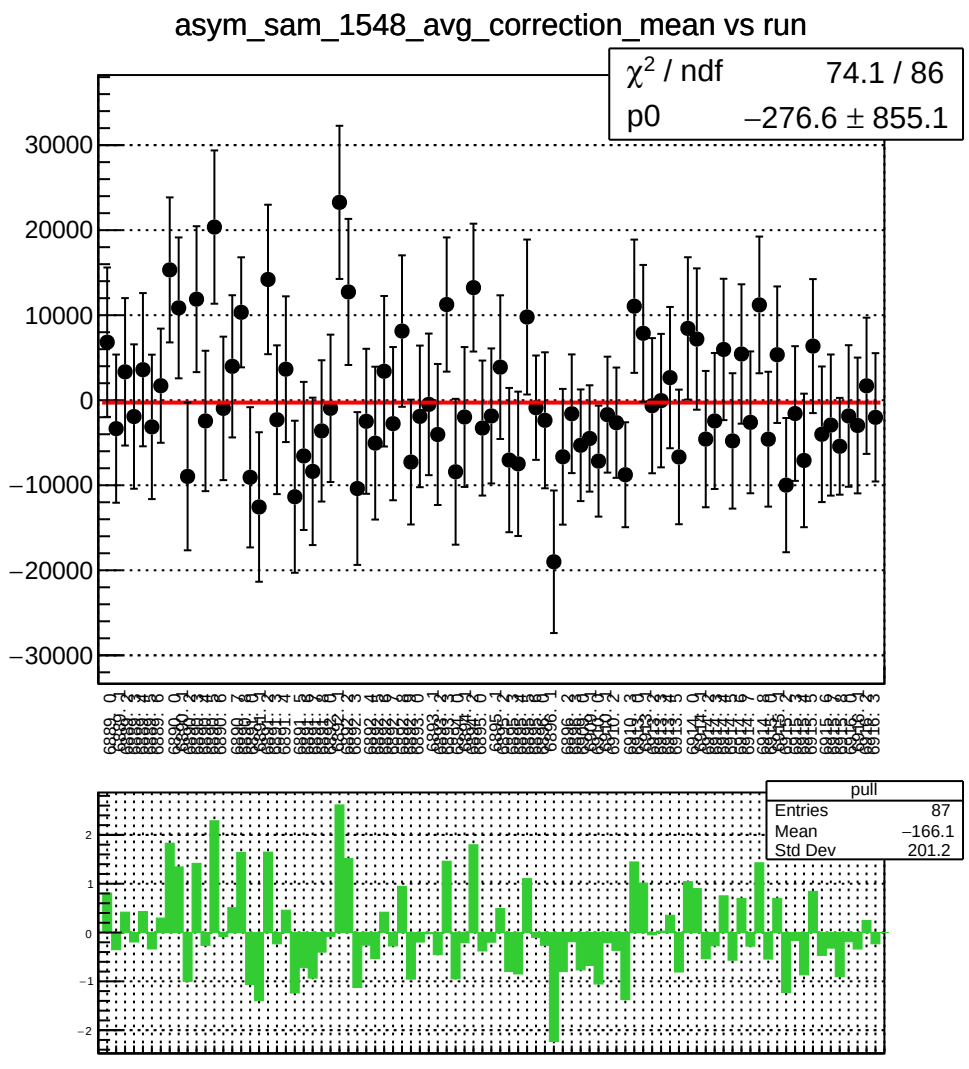

pull1D
Entries 87
Mean 0.01036
Std Dev 0.9474
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

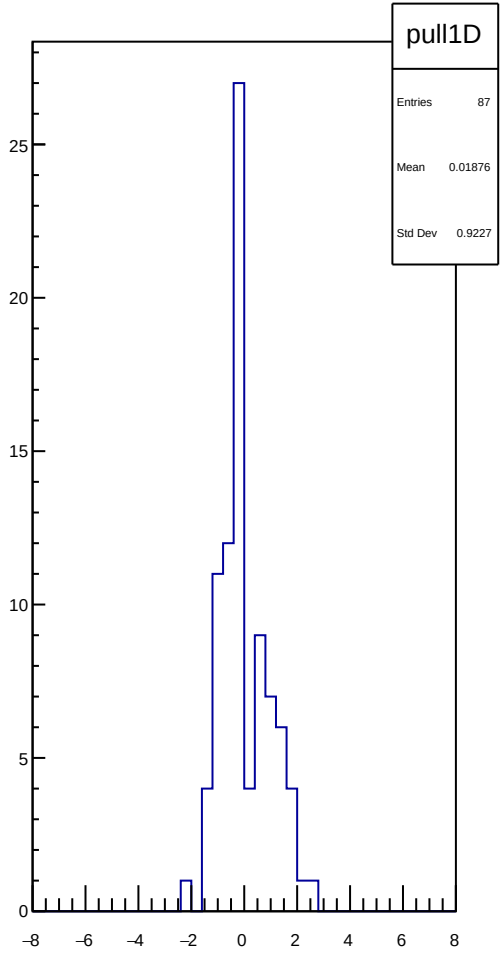

asym_sam_26_48_dd_rms vs run
χ² / ndf 6468 / 86
p0 569.9 ± 0.4434
650
600
550
500
450

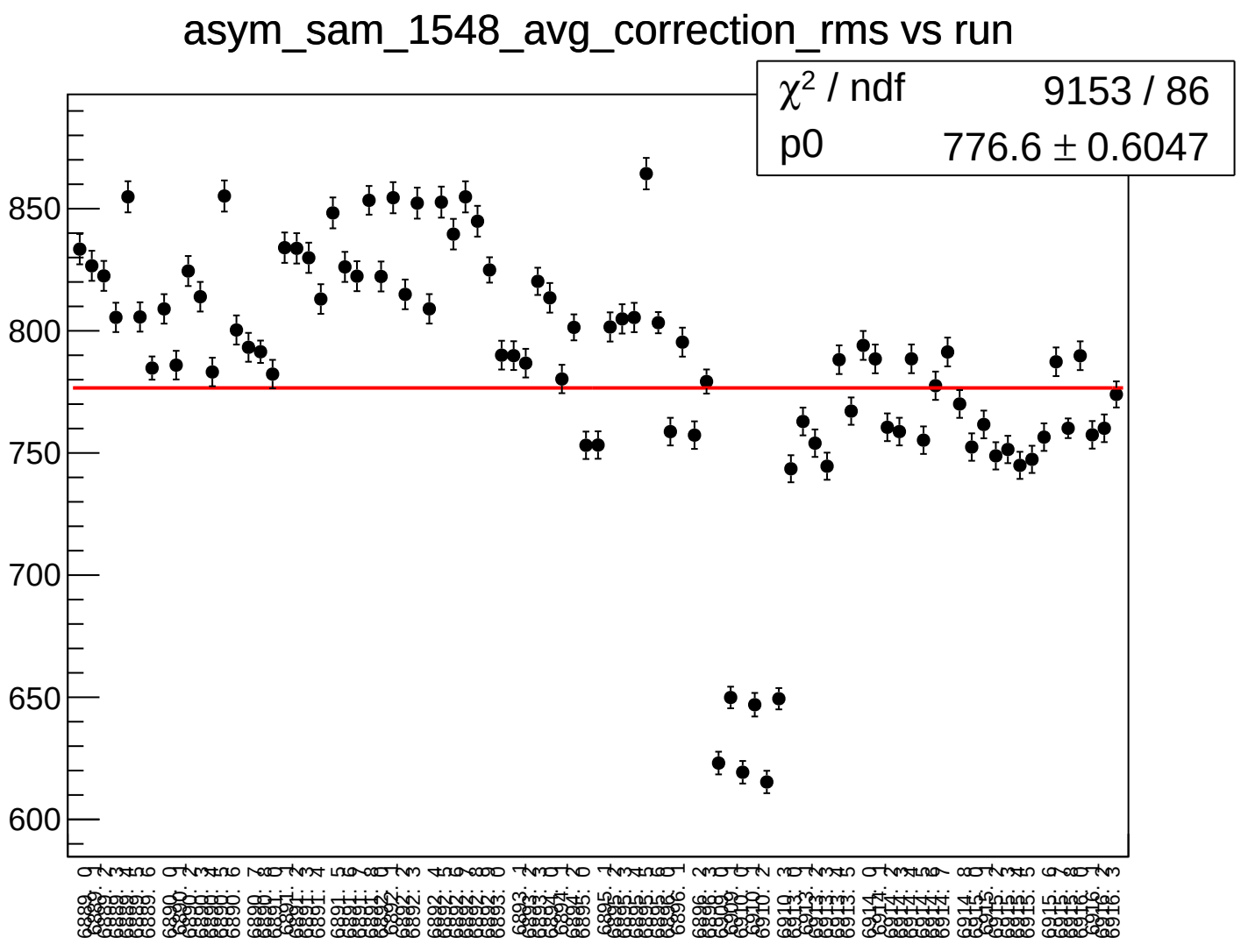

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 75.58 / 86
p0 −134.2 ± 117.4
pull
Entries 87
Mean 345.4
Std Dev 300.5

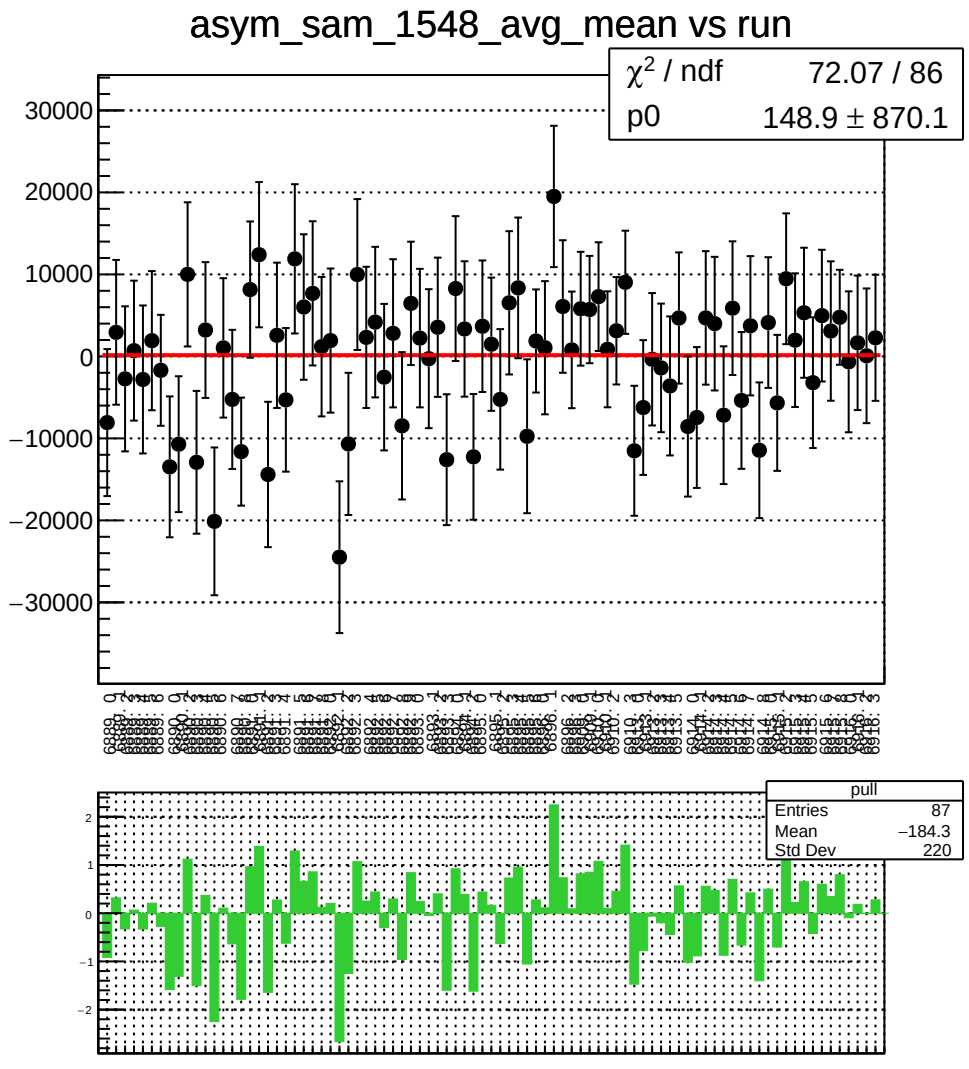

pull1D
Entries 87
Mean 0.005316
Std Dev 0.932

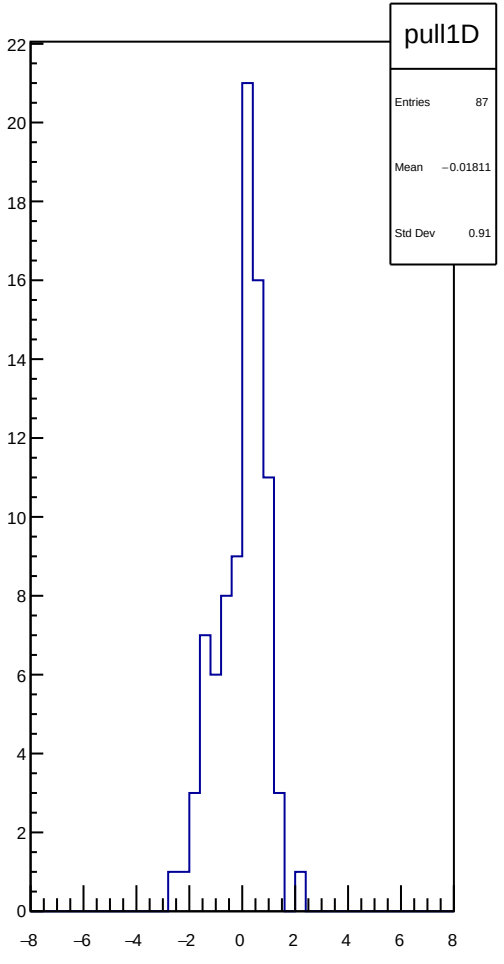

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 3100 / 86
p0 106.8 ± 0.08302
120
115
110
105
100

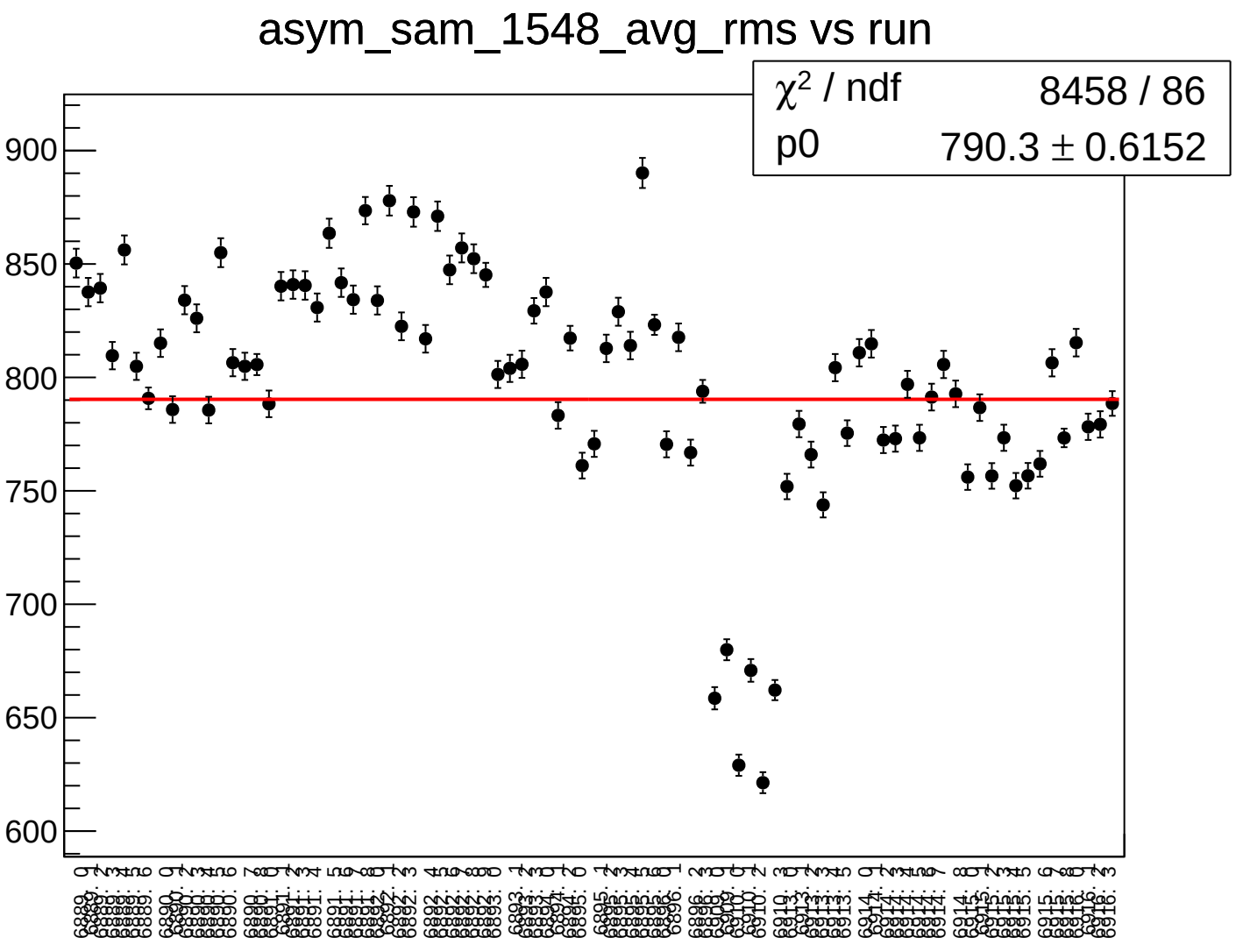

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 74.1 / 86
p0 −276.6 ± 855.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −166.1
Std Dev 201.2
2
1
0
−1
−2

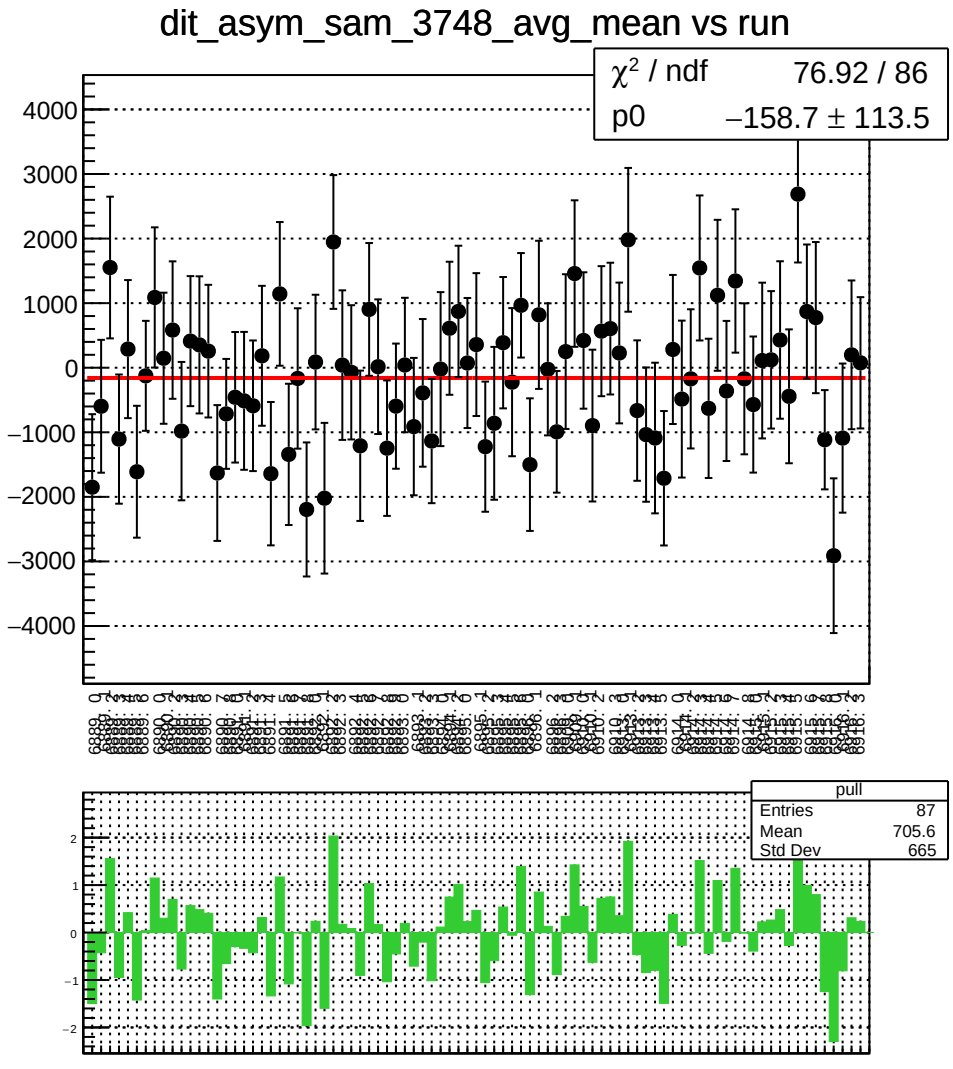

pull1D
Entries 87
Mean 0.01876
Std Dev 0.9227
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

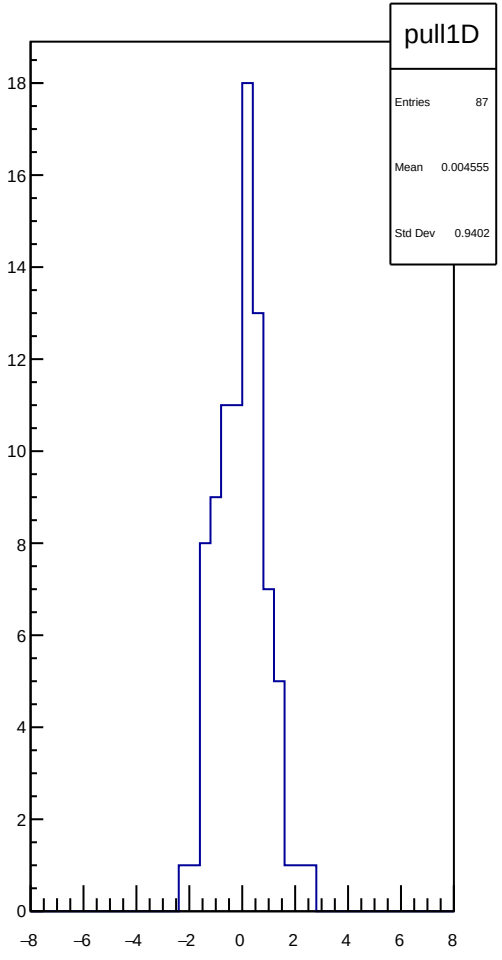

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 9153 / 86
p0 776.6 ± 0.6047
850
800
750
700
650
600

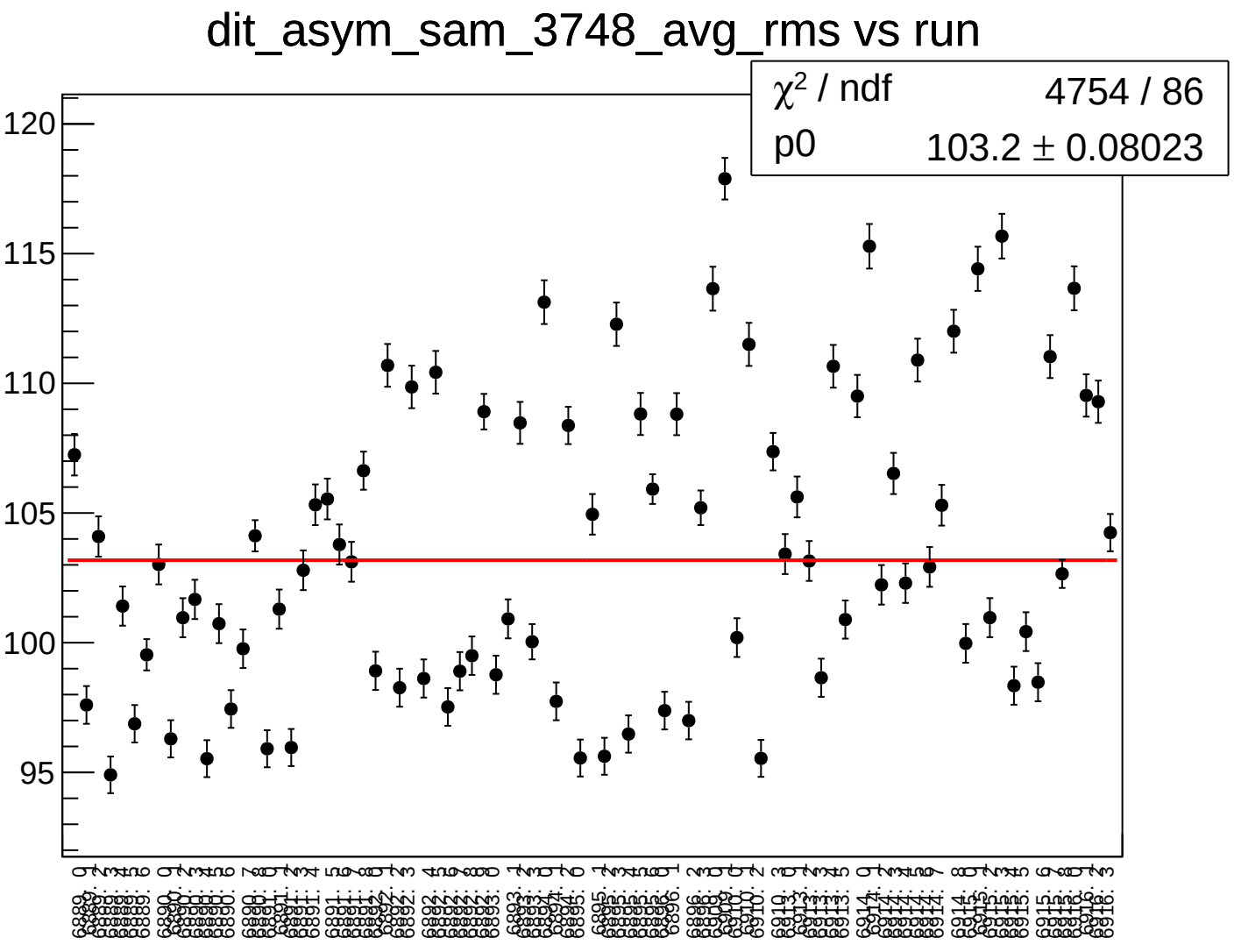

asym_sam_1548_avg_mean vs run
χ² / ndf 72.07 / 86
p0 148.9 ± 870.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −184.3
Std Dev 220
2
1
0
−1
−2

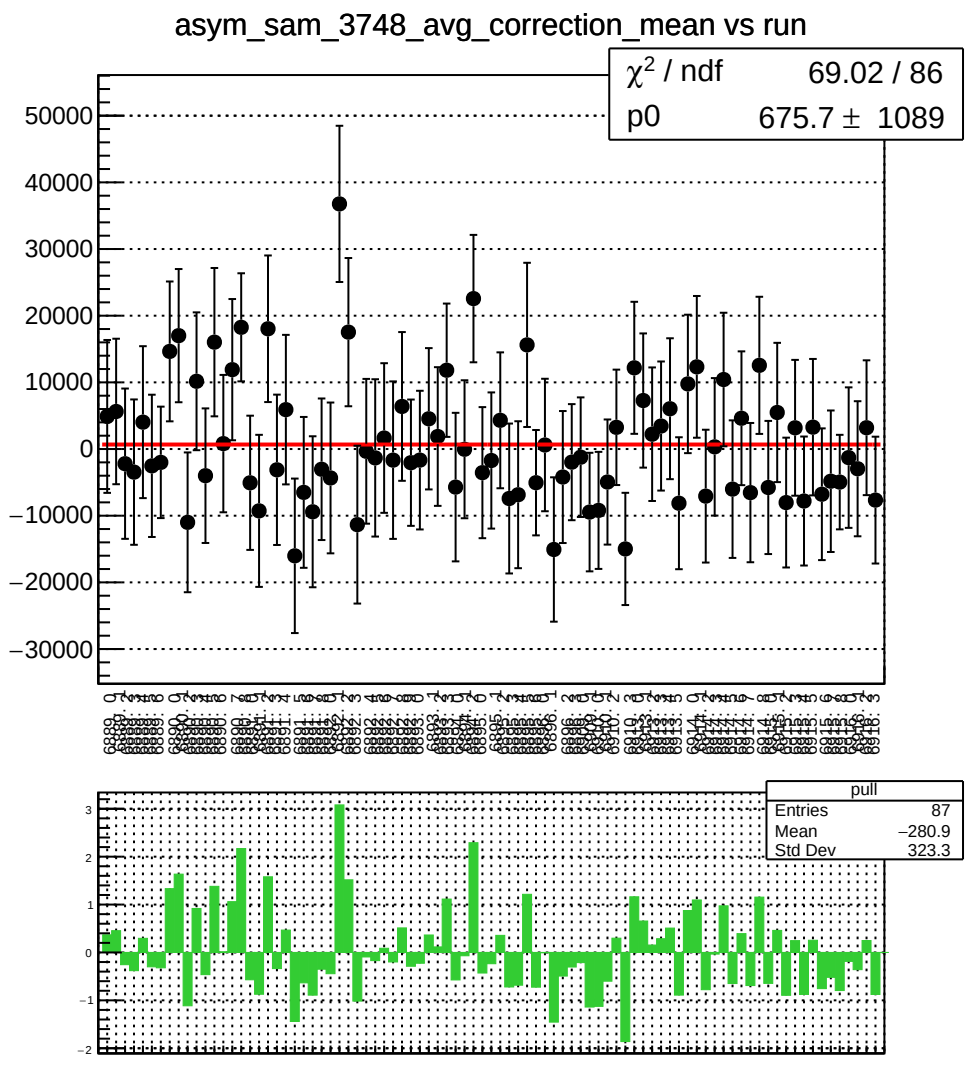

pull1D
Entries 87
Mean −0.01811
Std Dev 0.91
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

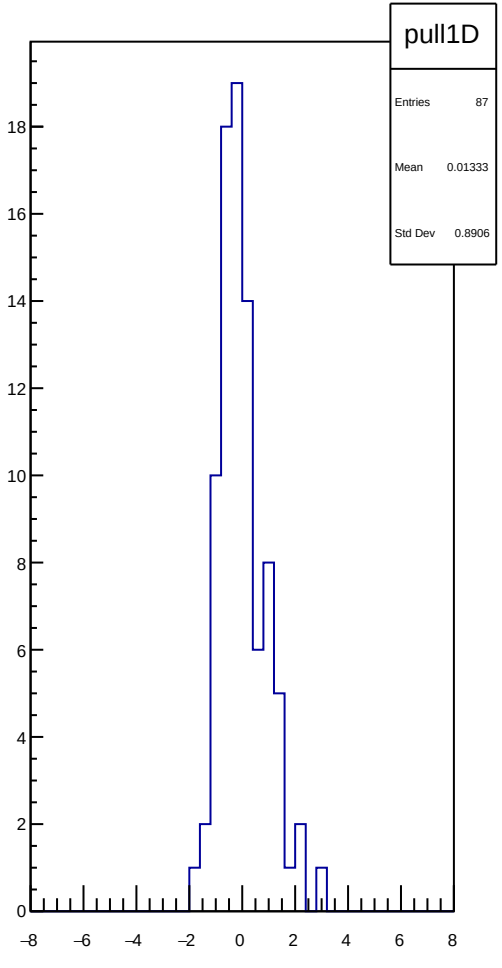

asym_sam_1548_avg_rms vs run
χ² / ndf 8458 / 86
p0 790.3 ± 0.6152
900
850
800
750
700
650
600

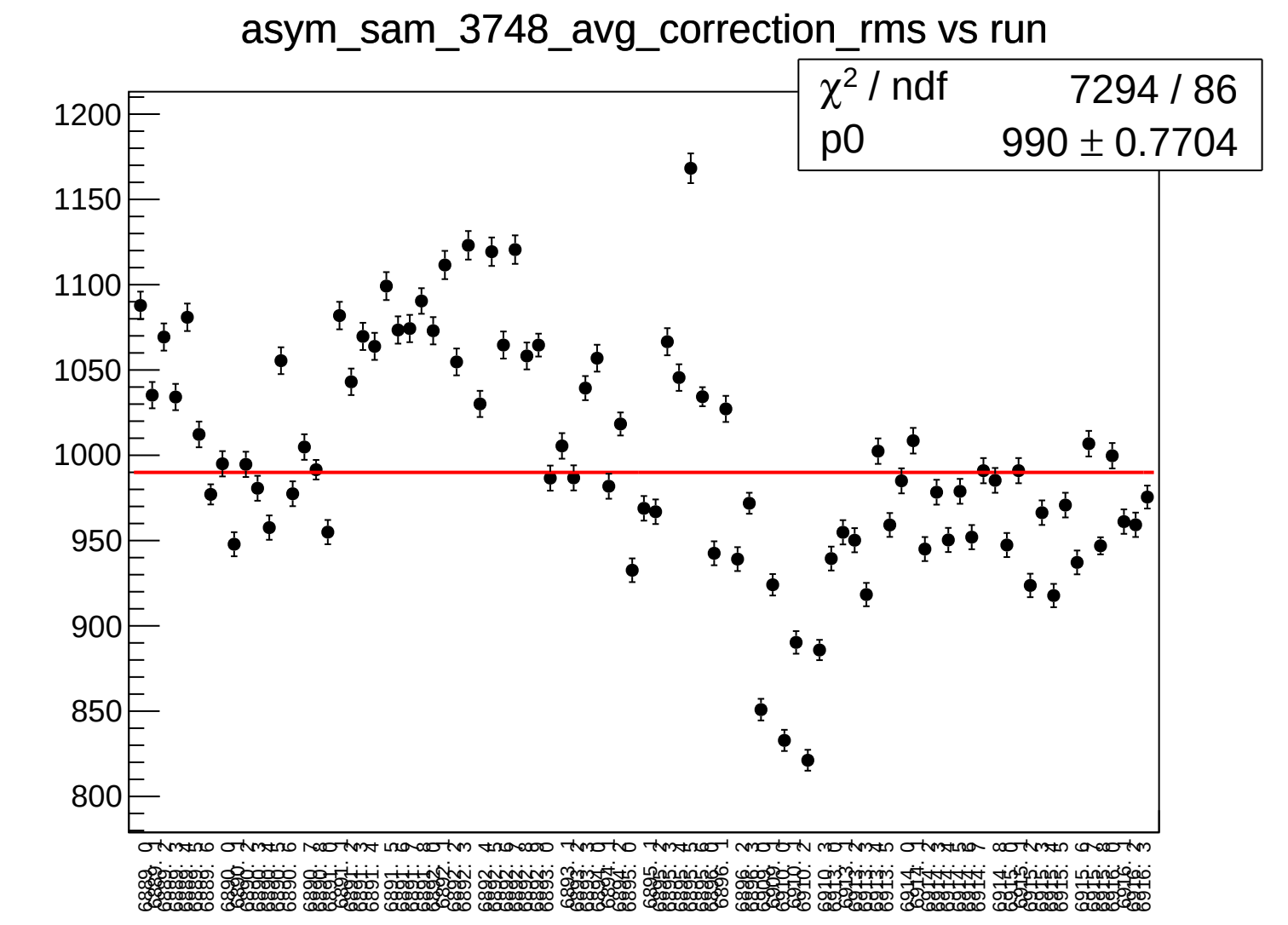

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 76.92 / 86
p0 −158.7 ± 113.5
pull
Entries 87
Mean 705.6
Std Dev 665

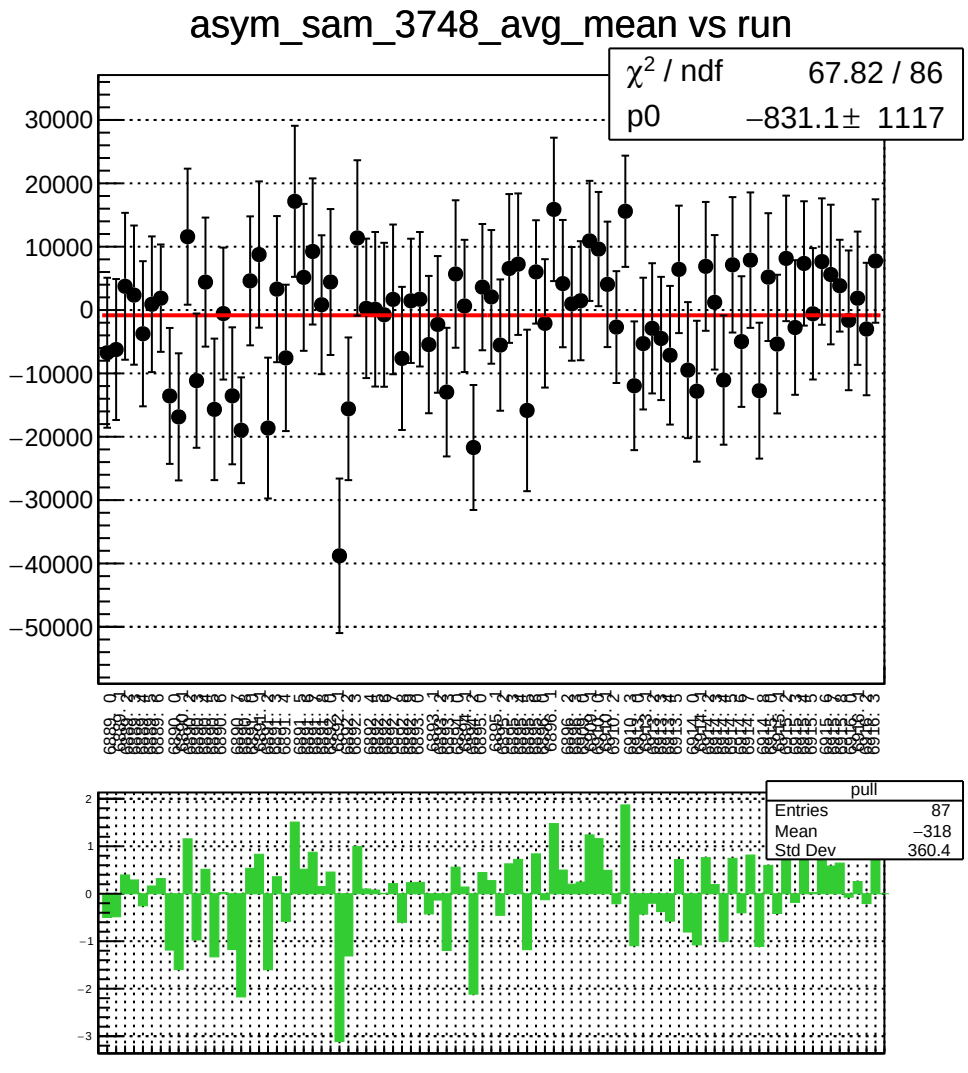

pull1D
Entries 87
Mean 0.004555
Std Dev 0.9402

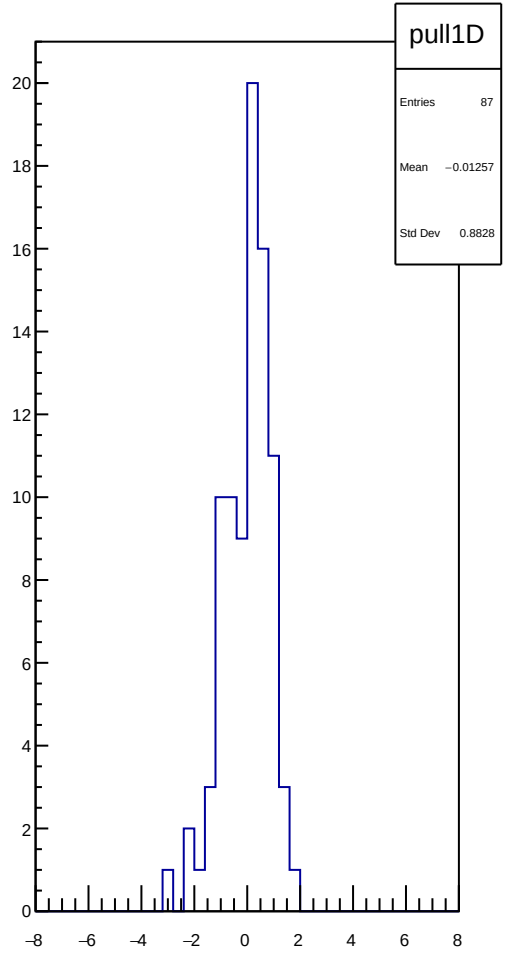

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 4754 / 86
p0 103.2 ± 0.08023
120
115
110
105
100
95

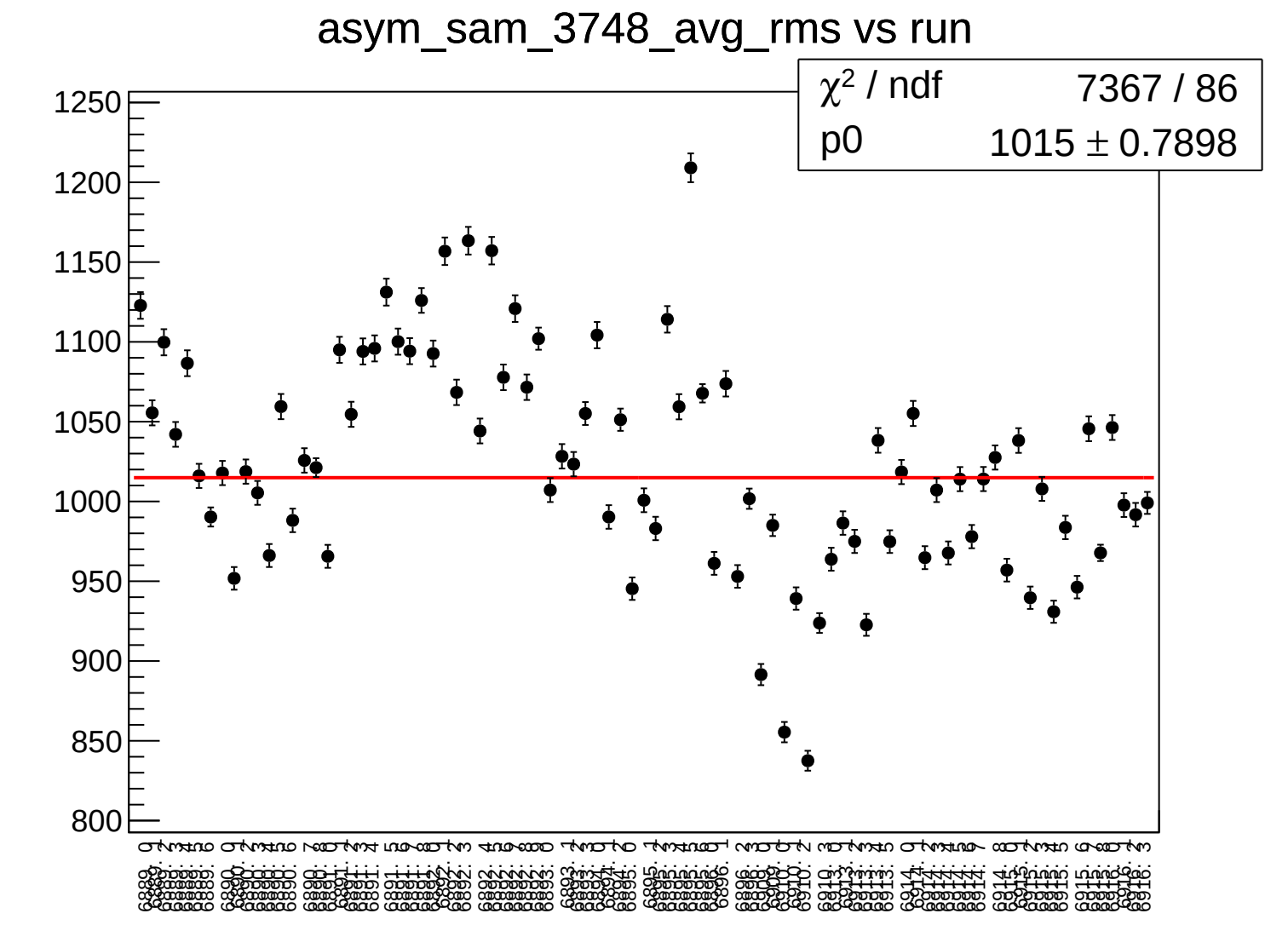

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 69.02 / 86
p0 675.7 ± 1089
pull
Entries 87
Mean −280.9
Std Dev 323.3

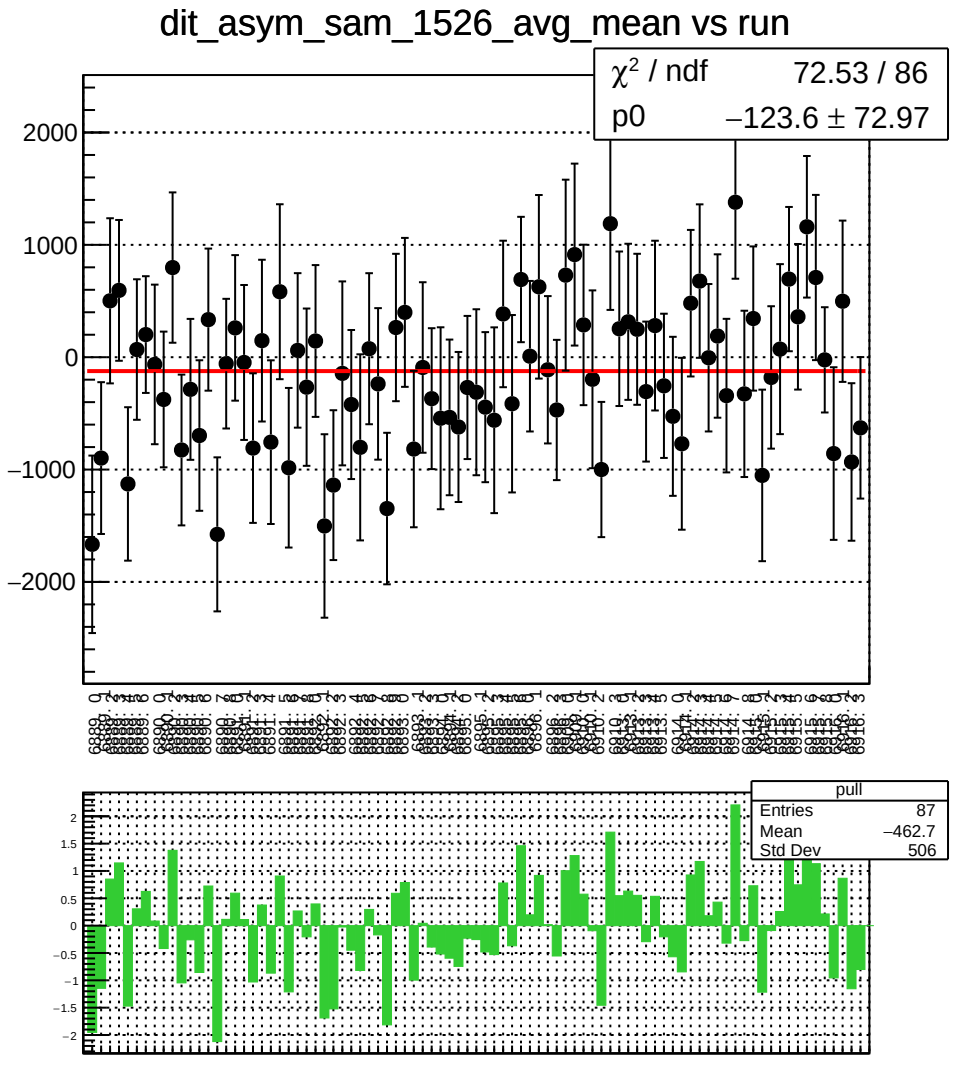

pull1D
Entries 87
Mean 0.01333
Std Dev 0.8906

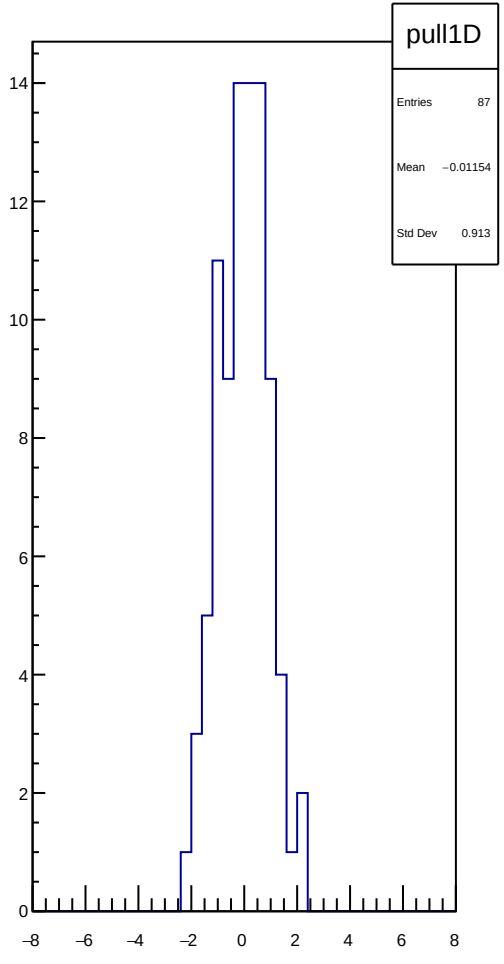

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 7294 / 86
p0 990 ± 0.7704
1200
1150
1100
1050
1000
950
900
850
800

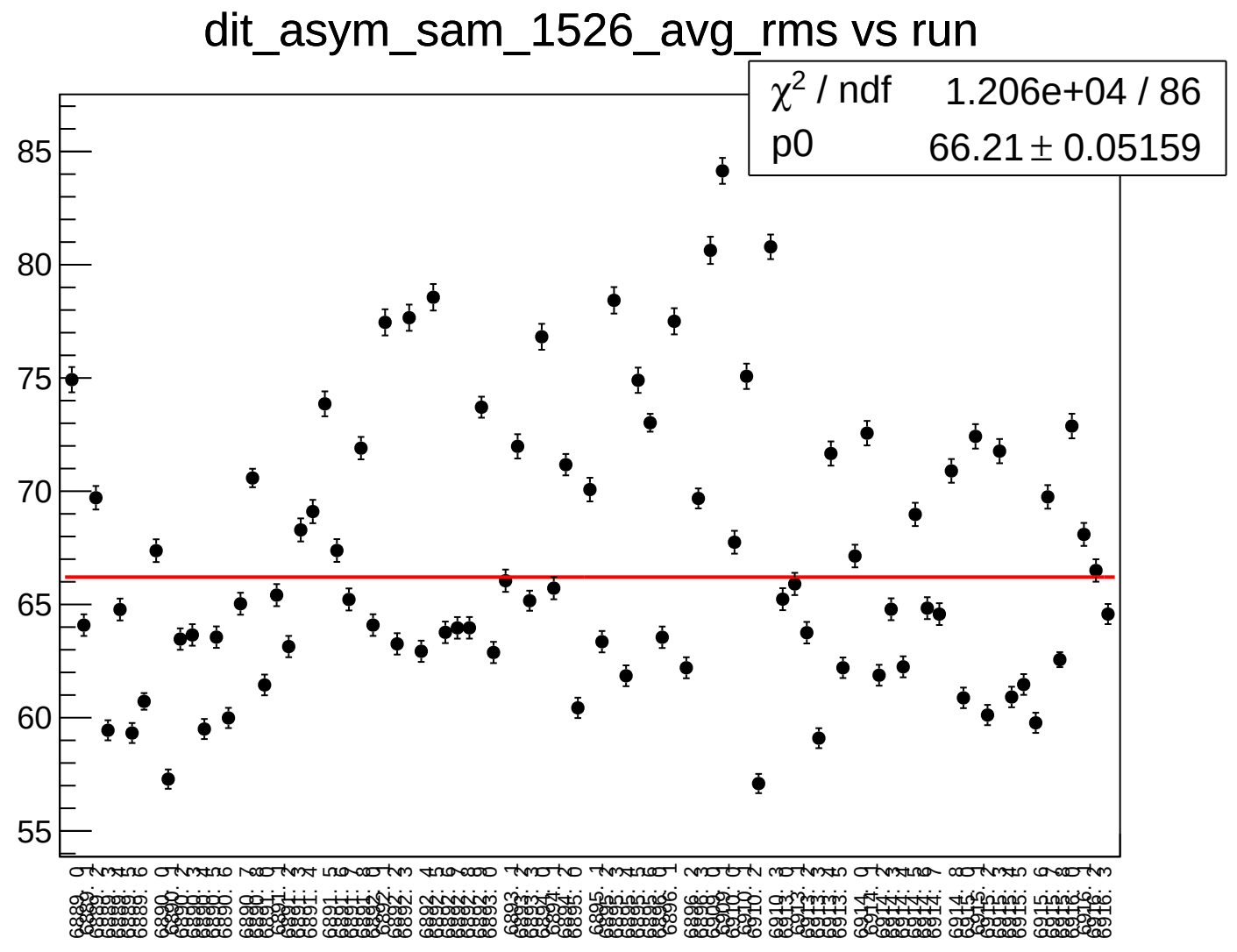

asym_sam_3748_avg_mean vs run
χ² / ndf 67.82 / 86
p0 −831.1± 1117
pull
Entries 87
Mean −318
Std Dev 360.4

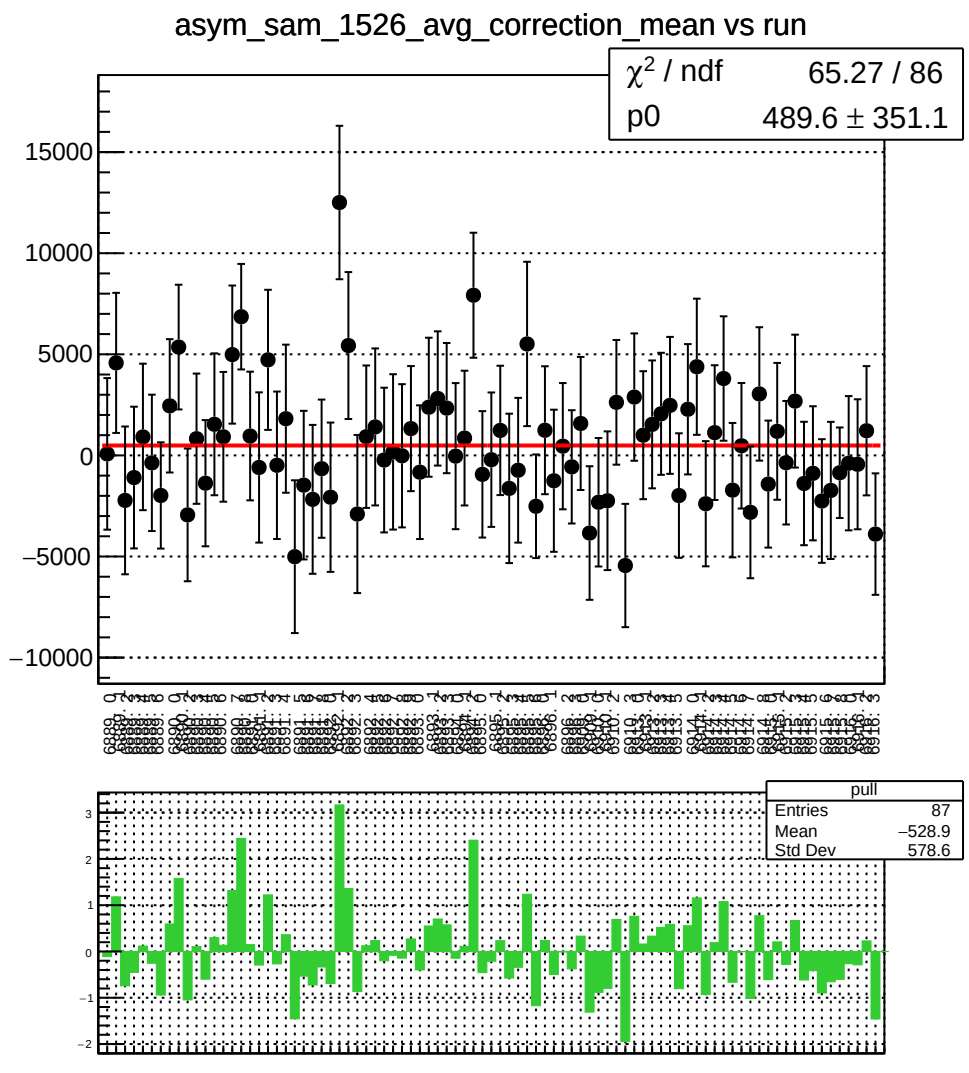

pull1D
Entries 87
Mean −0.01257
Std Dev 0.8828

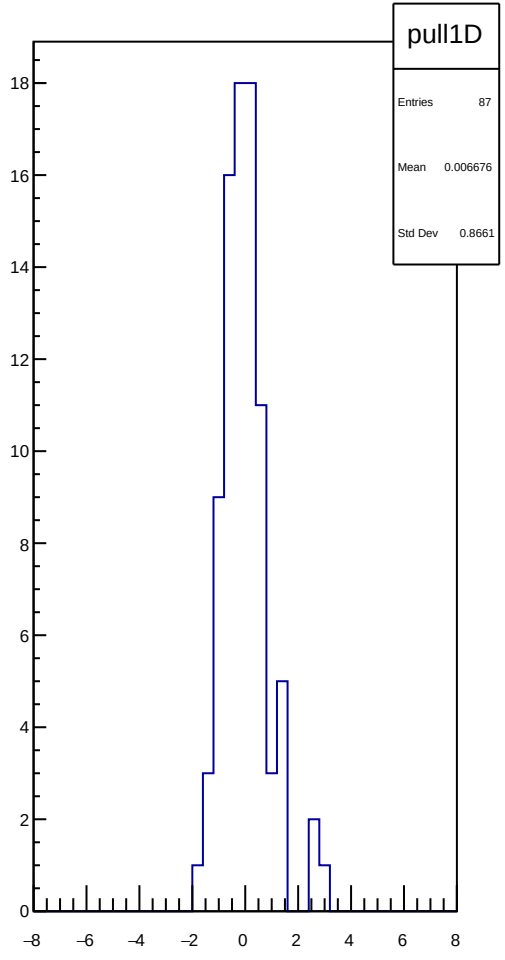

asym_sam_3748_avg_rms vs run
χ² / ndf 7367 / 86
p0 1015 ± 0.7898
1250
1200
1150
1100
1050
1000
950
900
850
800

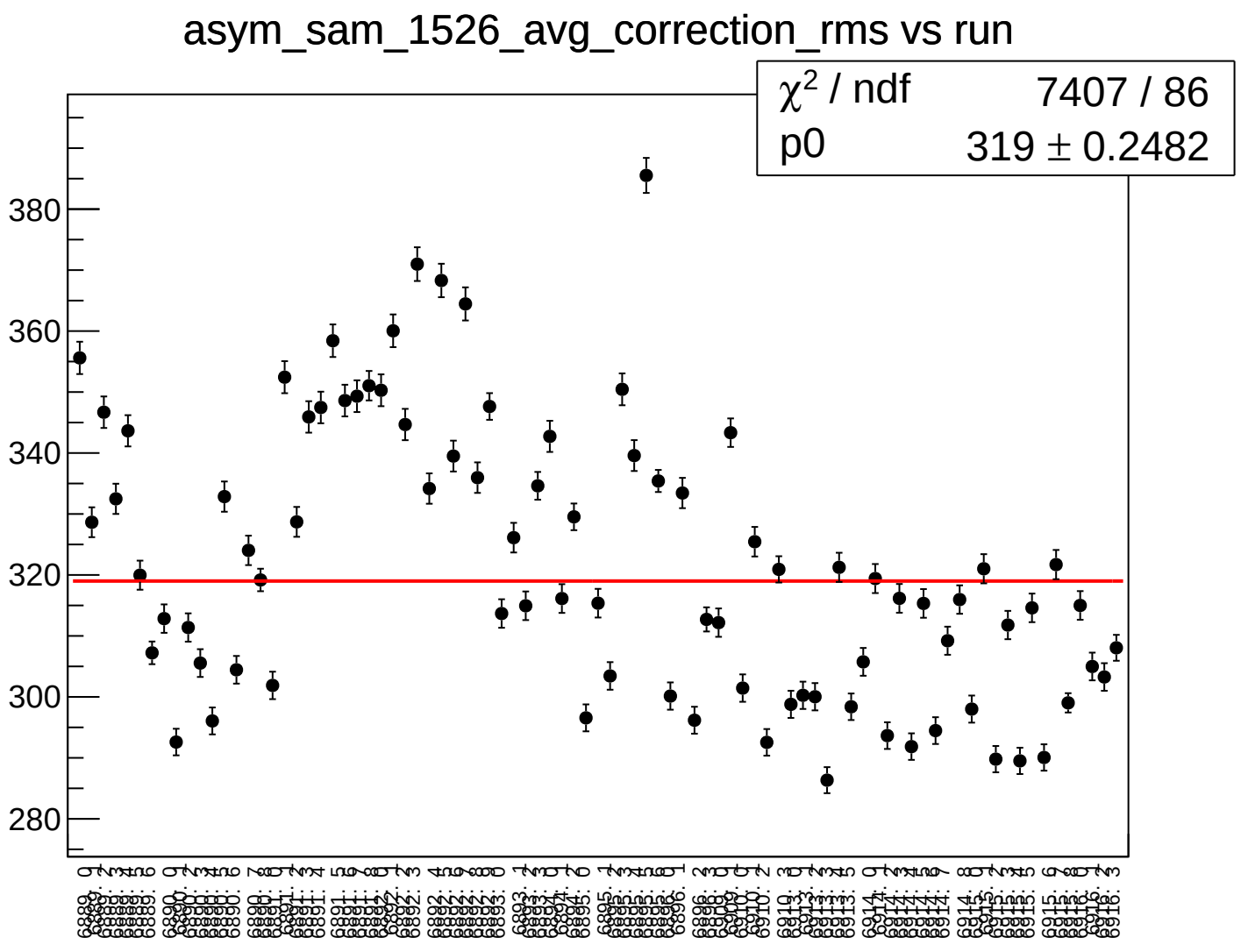

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 72.53 / 86
p0 −123.6 ± 72.97
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −462.7
Std Dev 506
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

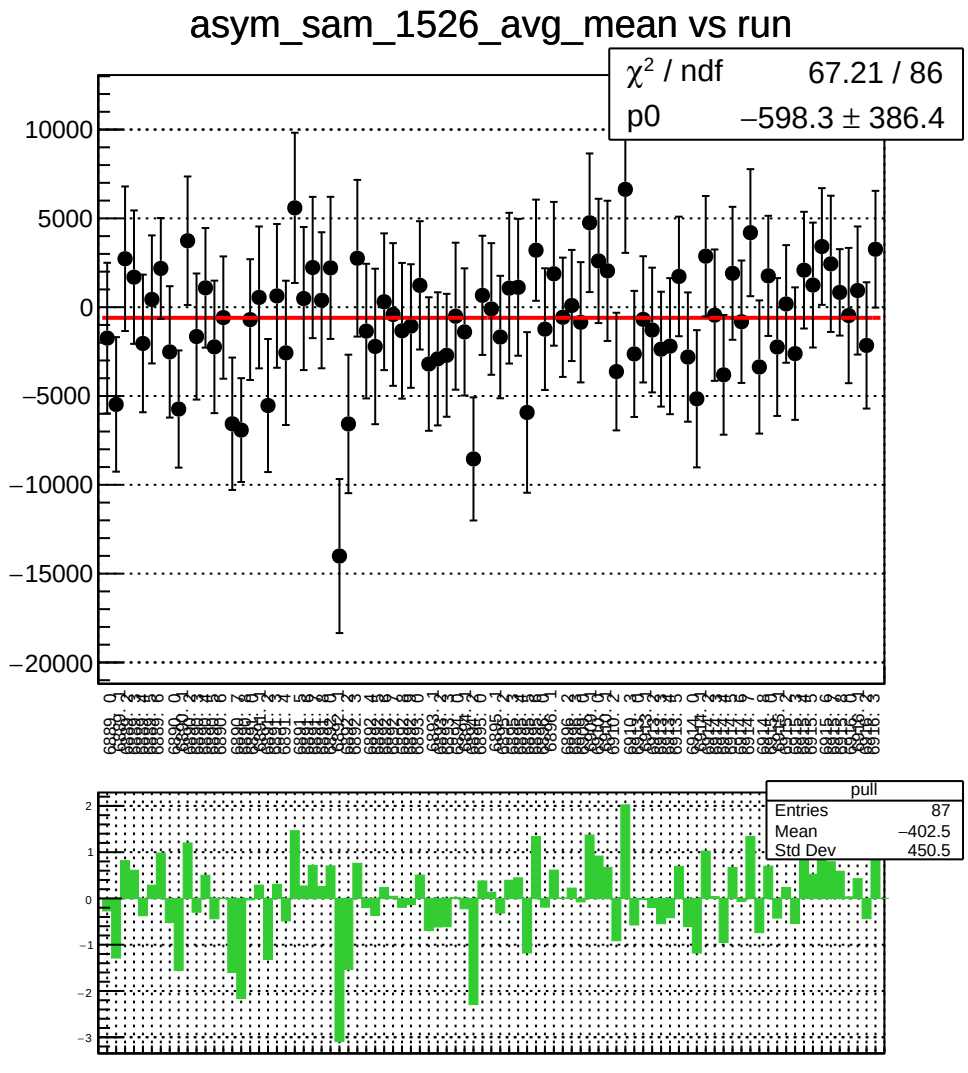

pull1D
Entries 87
Mean −0.01154
Std Dev 0.913
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

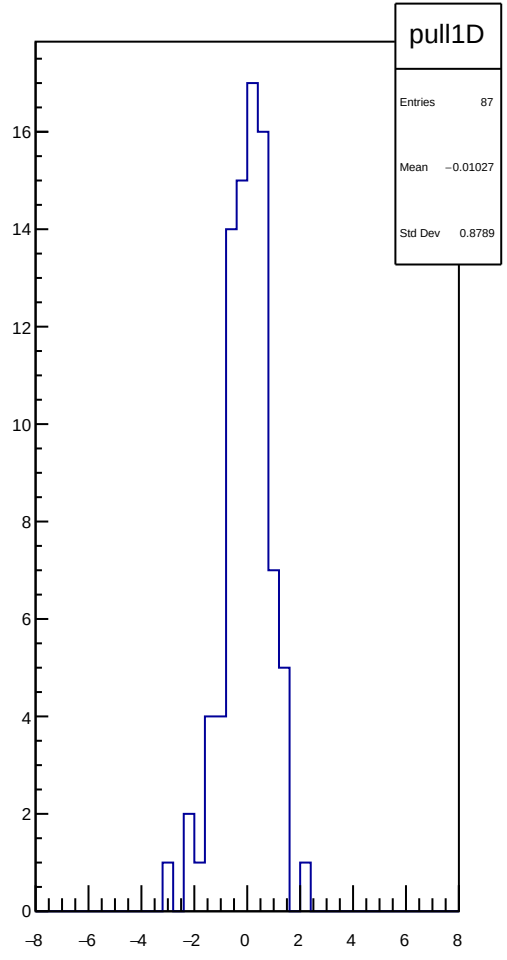

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.206e+04 / 86
p0 66.21 ± 0.05159
85
80
75
70
65
60
55

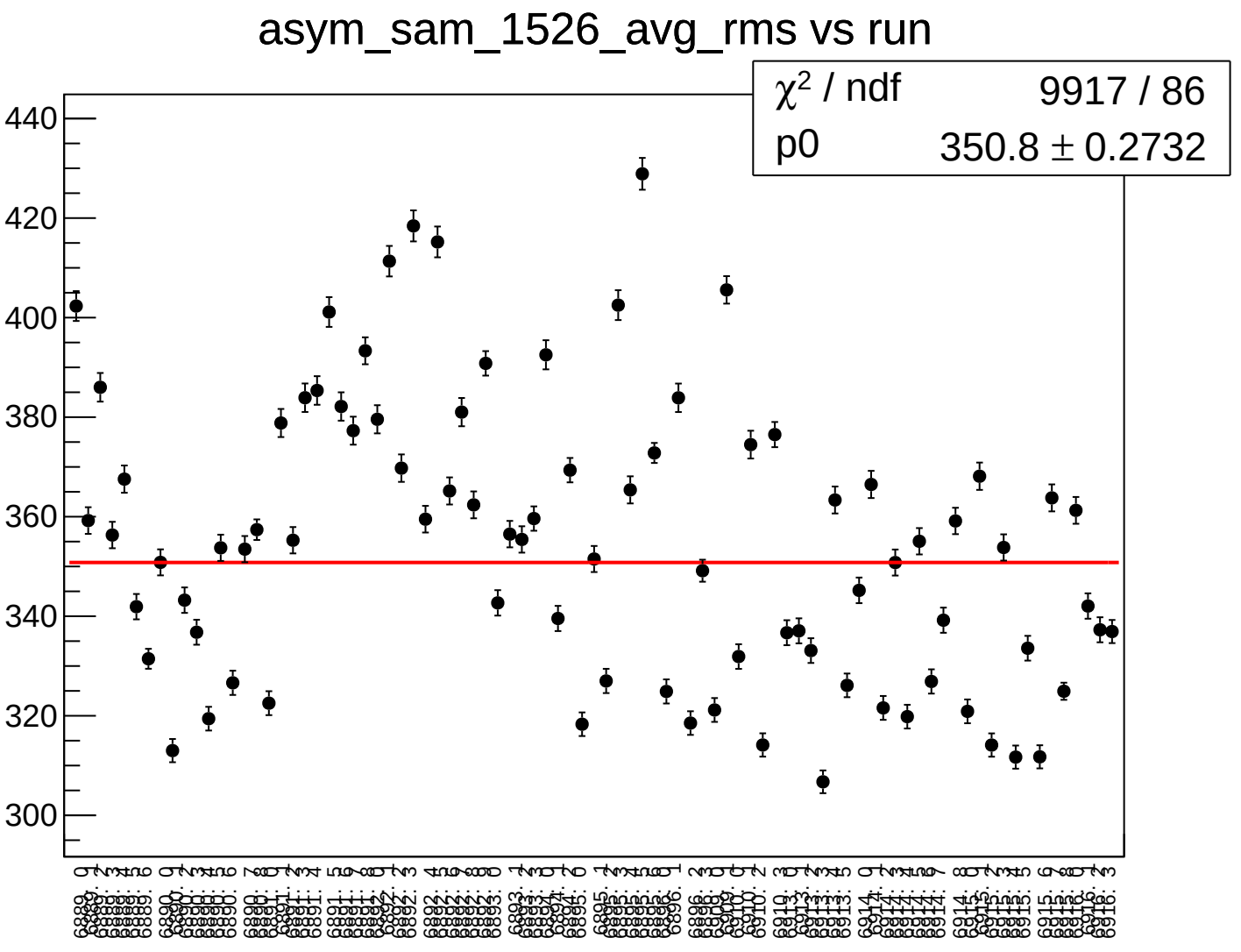

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 65.27 / 86
p0 489.6 ± 351.1
15000
10000
5000
0
−5000
−10000
pull
Entries 87
Mean −528.9
Std Dev 578.6
3
2
1
0
−1
−2

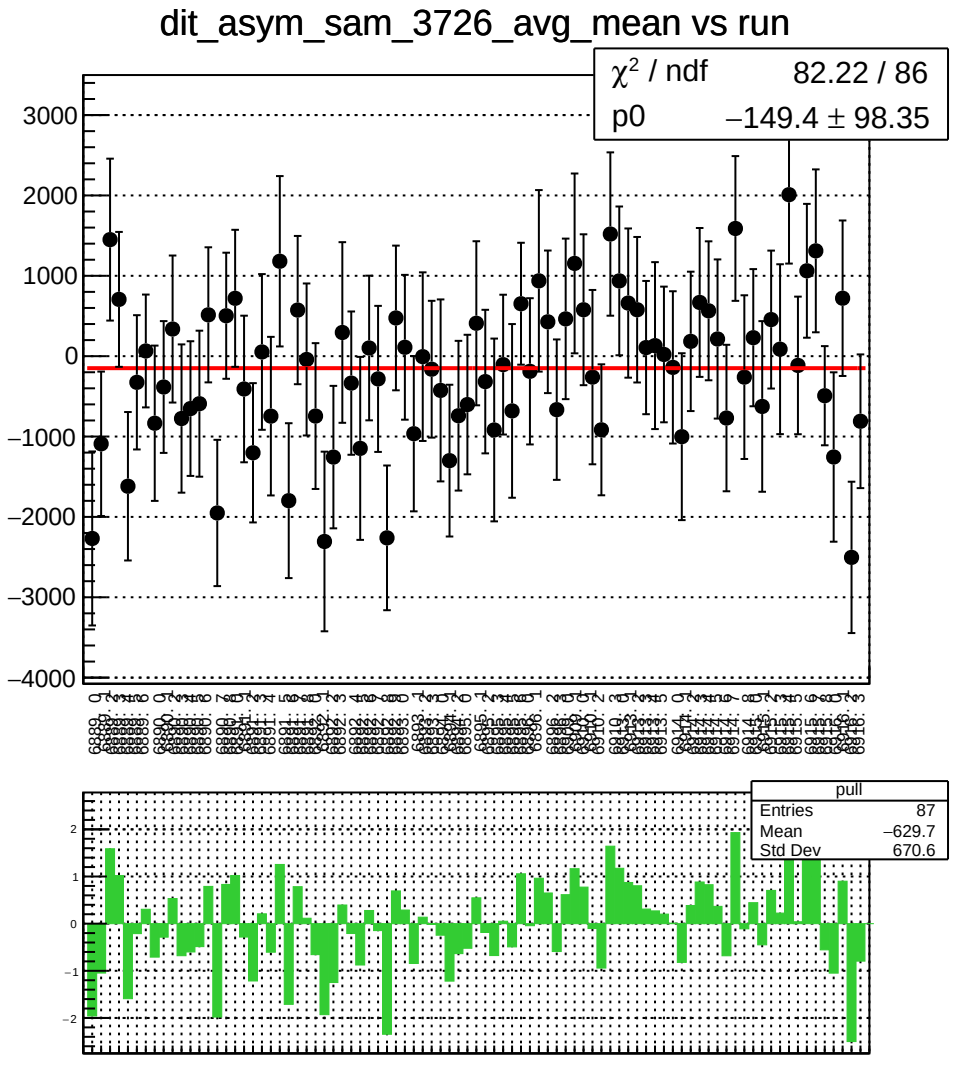

pull1D
Entries 87
Mean 0.006676
Std Dev 0.8661
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

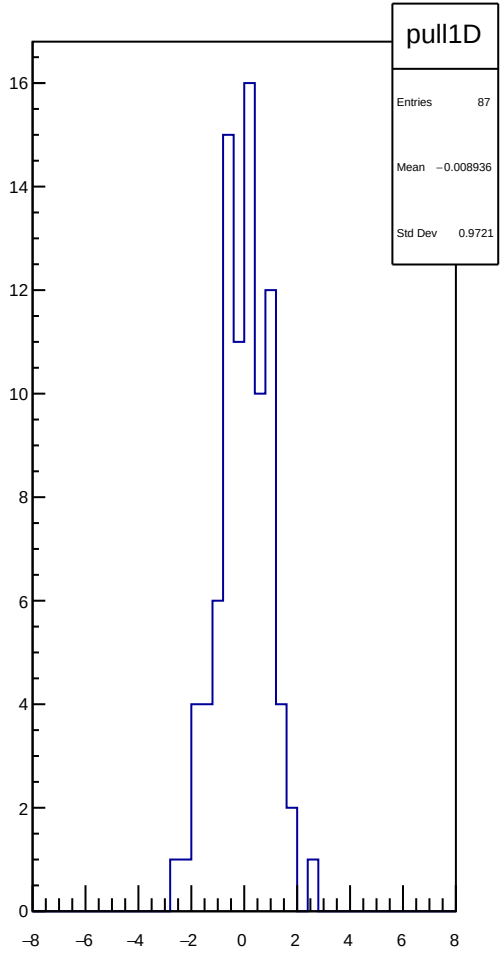

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 7407 / 86
p0 319 ± 0.2482
380
360
340
320
300
280

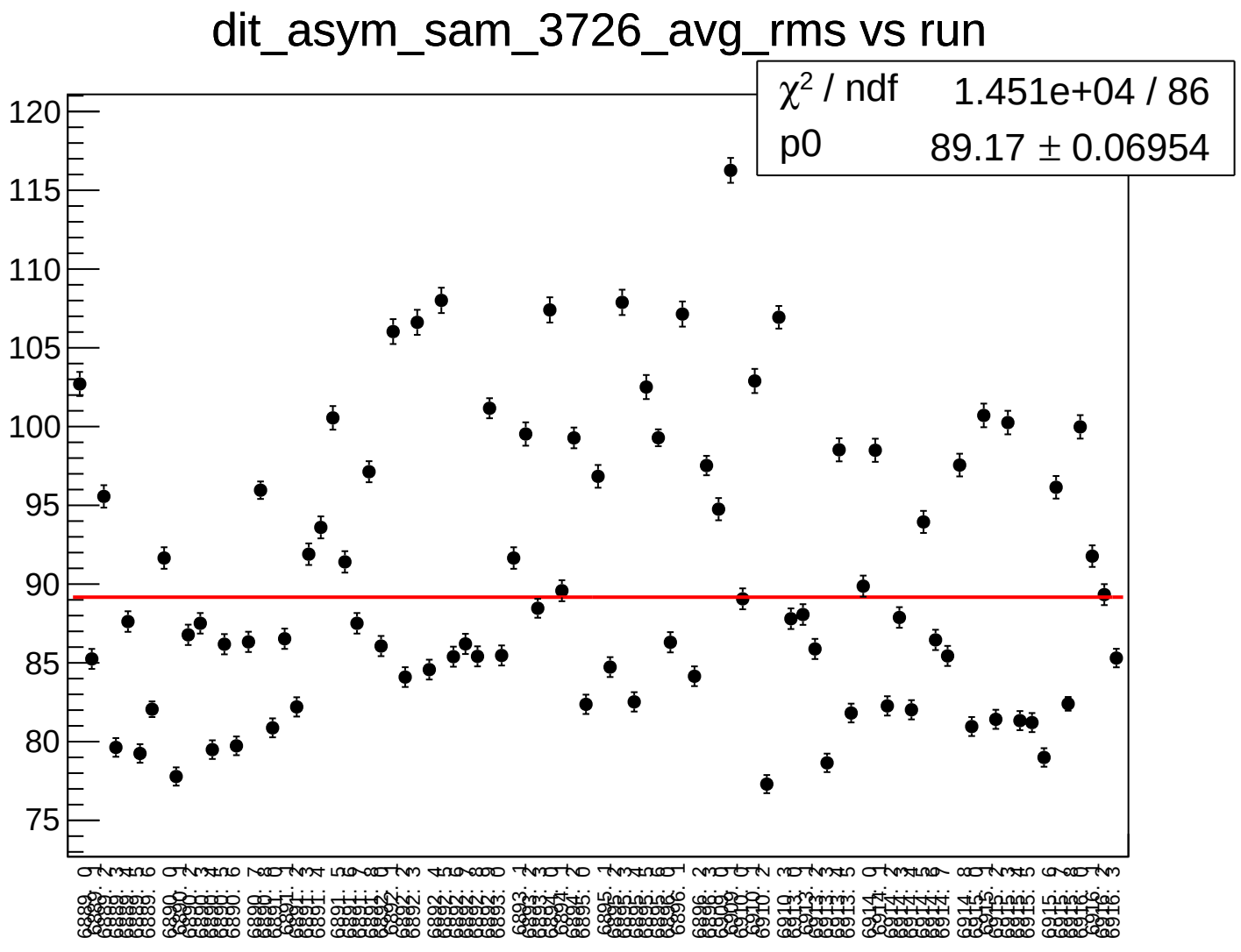

asym_sam_1526_avg_mean vs run
χ² / ndf 67.21 / 86
p0 −598.3 ± 386.4
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 87
Mean −402.5
Std Dev 450.5
2
1
0
−1
−2
−3

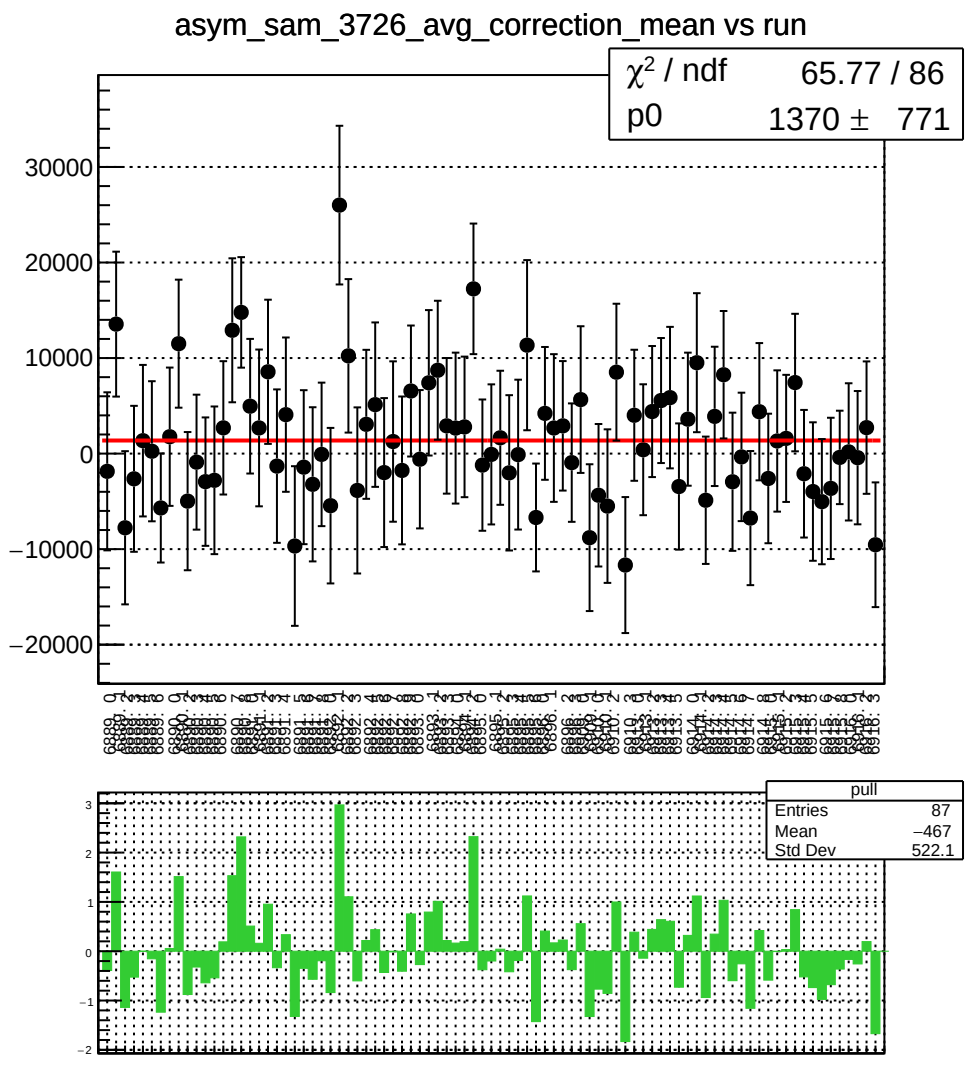

pull1D
Entries 87
Mean −0.01027
Std Dev 0.8789
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

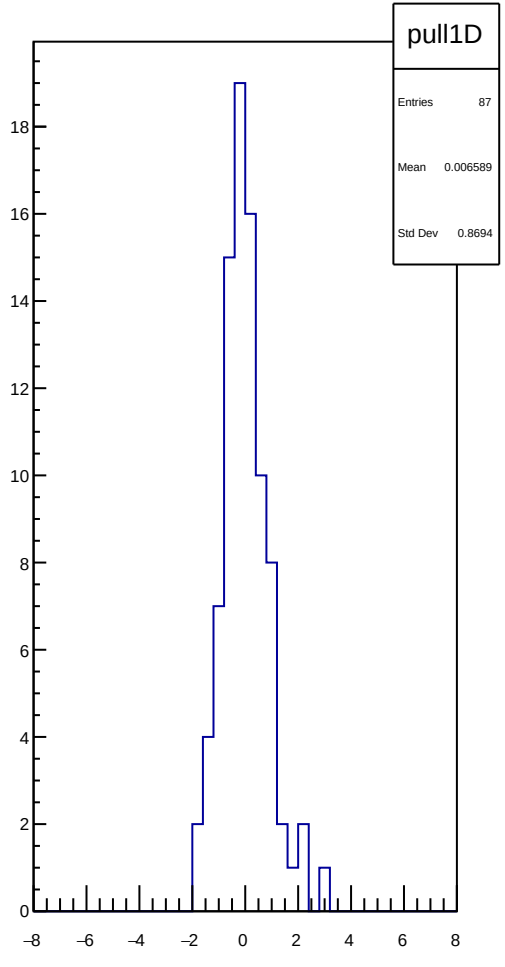

asym_sam_1526_avg_rms vs run
χ^2 / ndf 9917 / 86
p0 350.8 ± 0.2732
440
420
400
380
360
340
320
300

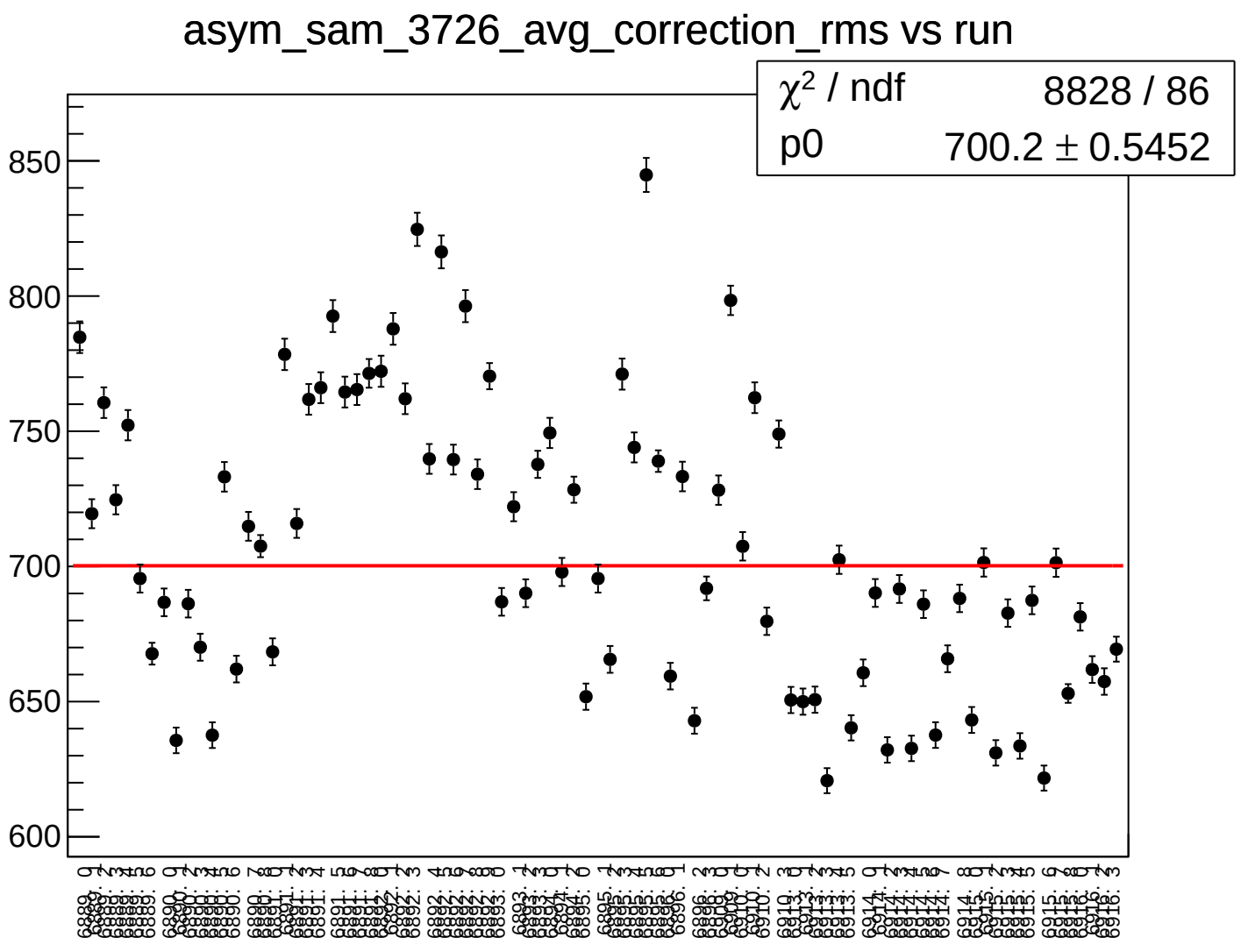

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 82.22 / 86
p0 −149.4 ± 98.35
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 87
Mean −629.7
Std Dev 670.6
2
1
0
−1
−2

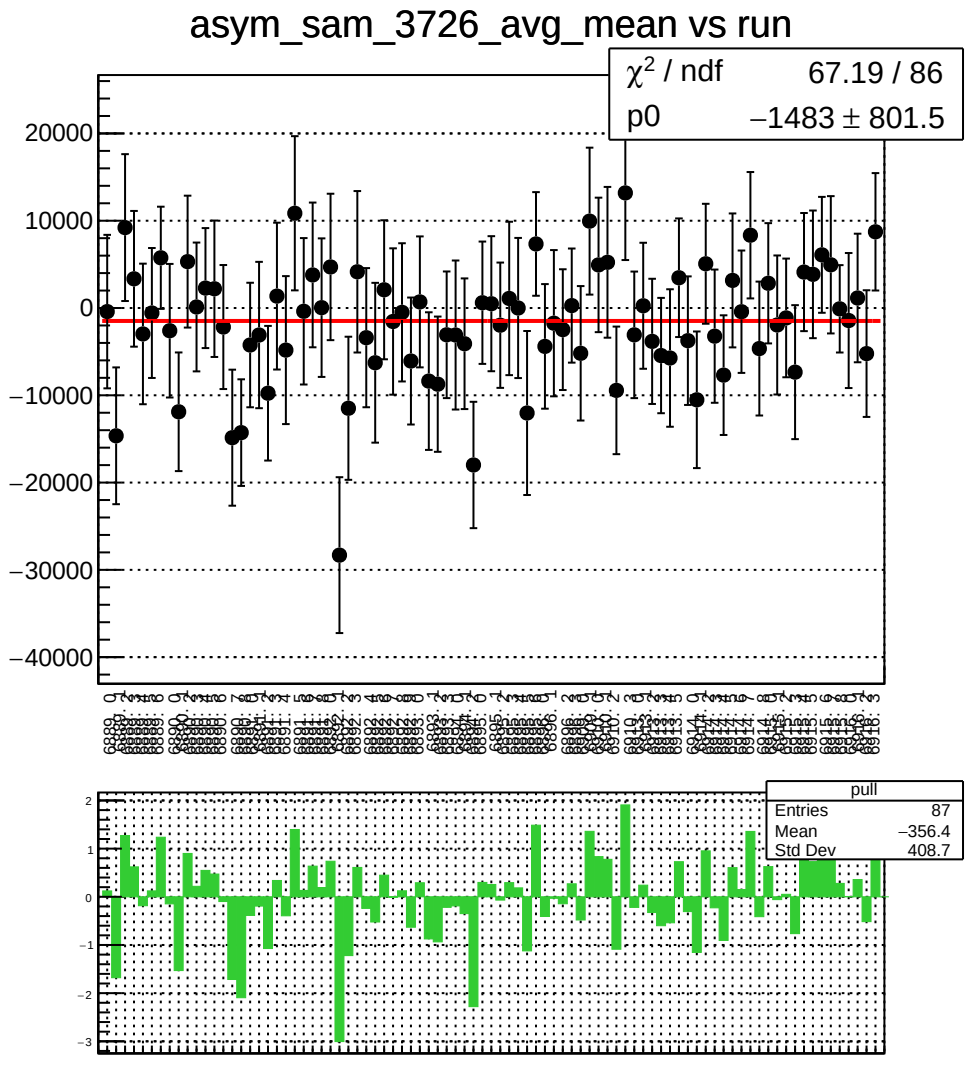

pull1D
Entries 87
Mean −0.008936
Std Dev 0.9721
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

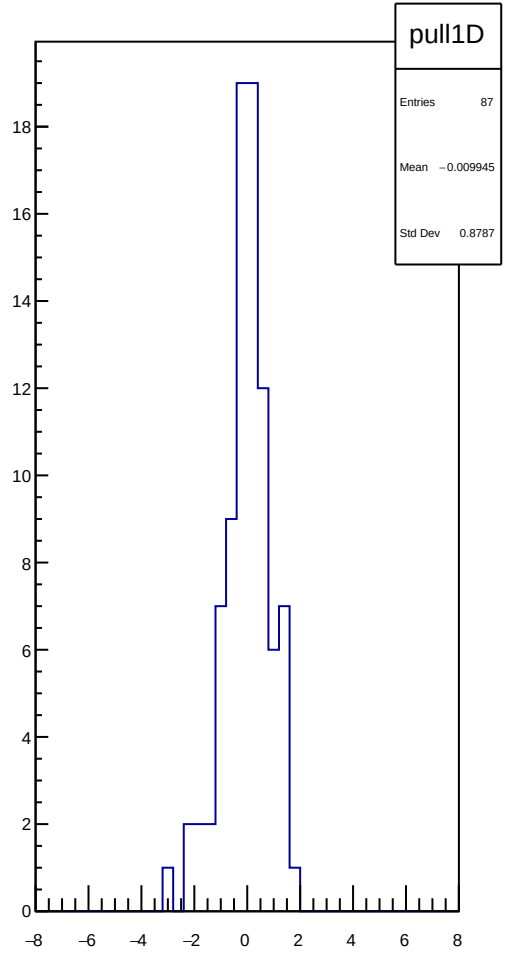

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.451e+04 / 86
p0 89.17 ± 0.06954
120
115
110
105
100
95
90
85
80
75

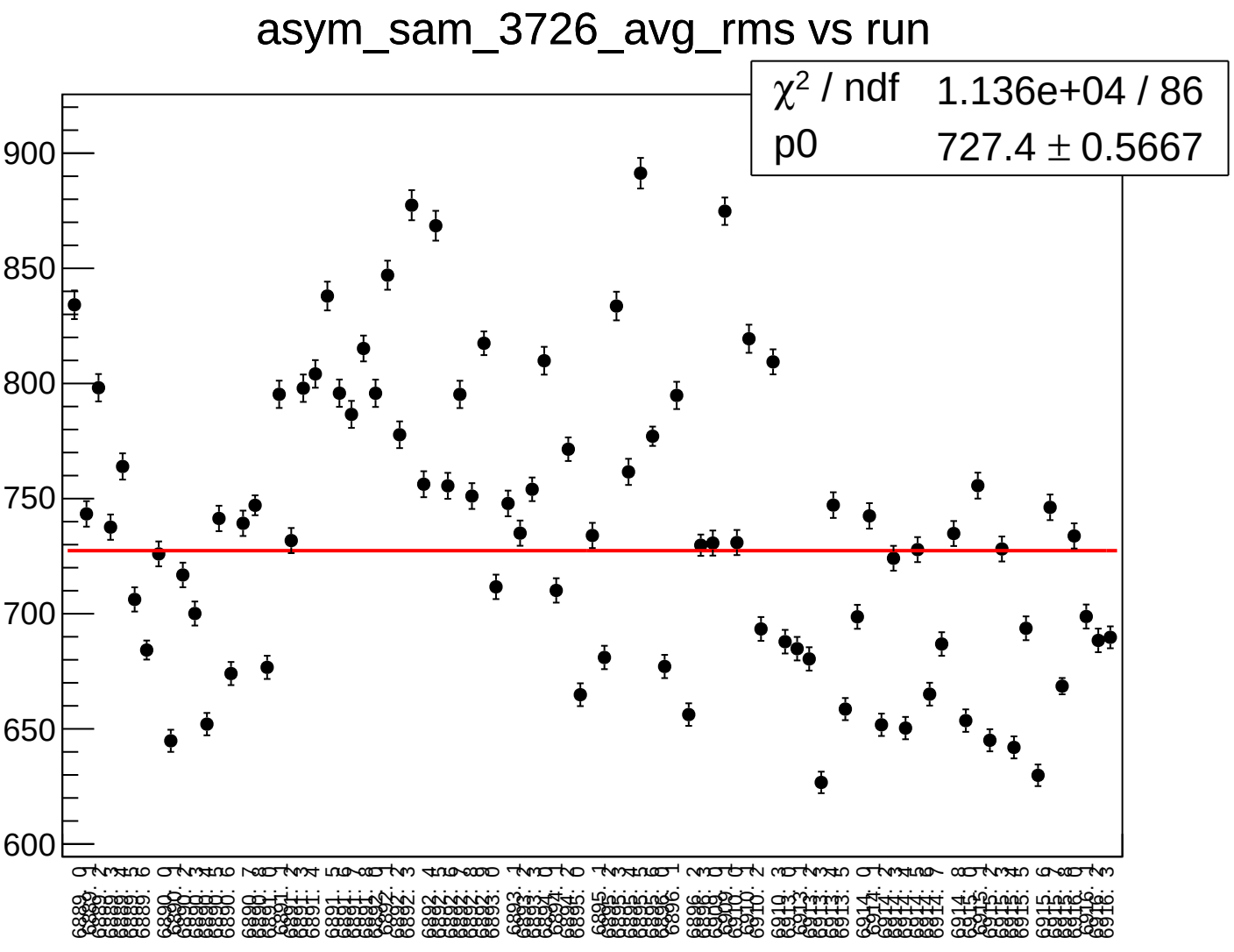

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 65.77 / 86
p0 1370 ± 771
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −467
Std Dev 522.1
3
2
1
0
−1
−2

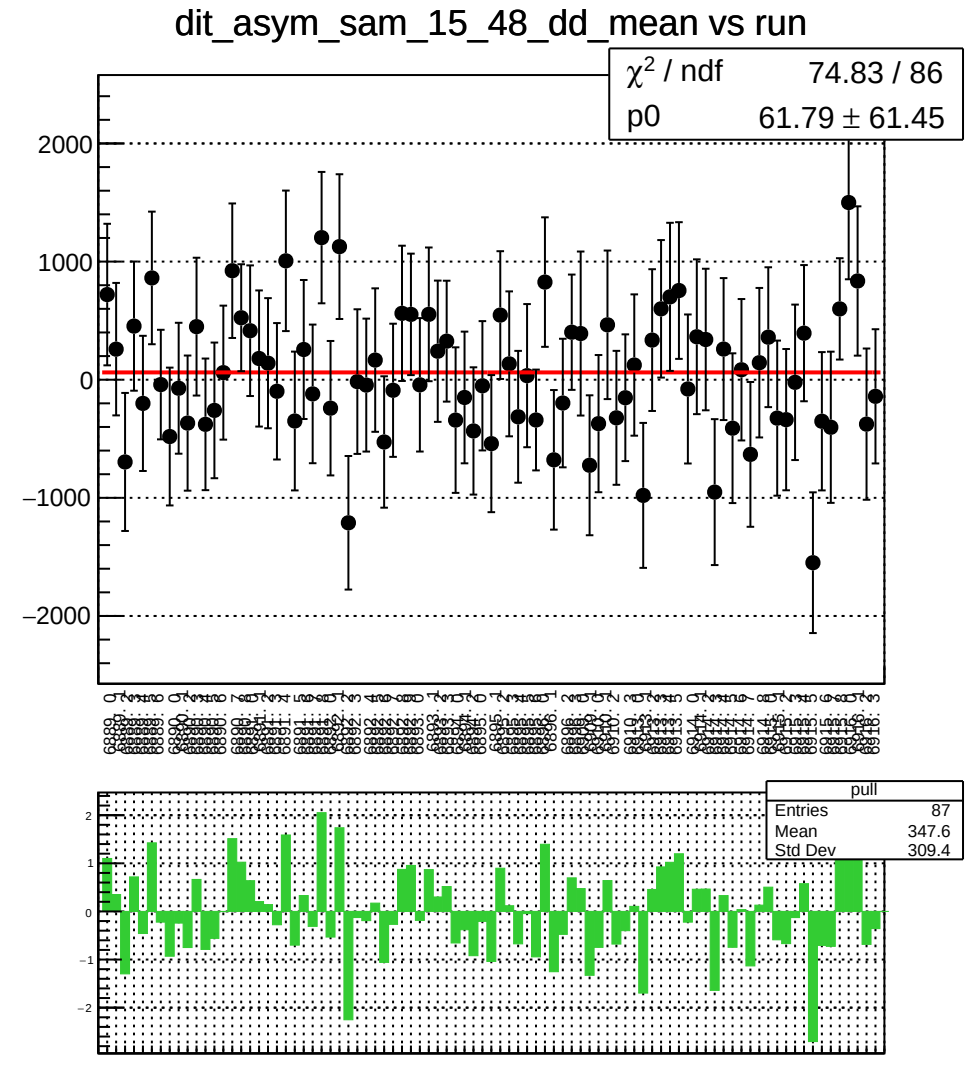

pull1D
Entries 87
Mean 0.006589
Std Dev 0.8694
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

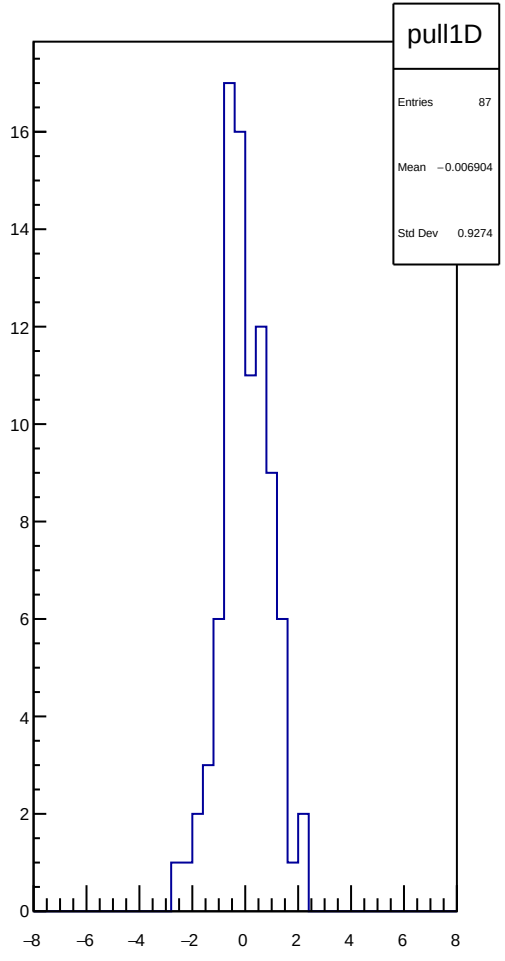

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 8828 / 86
p0 700.2 ± 0.5452
850
800
750
700
650
600

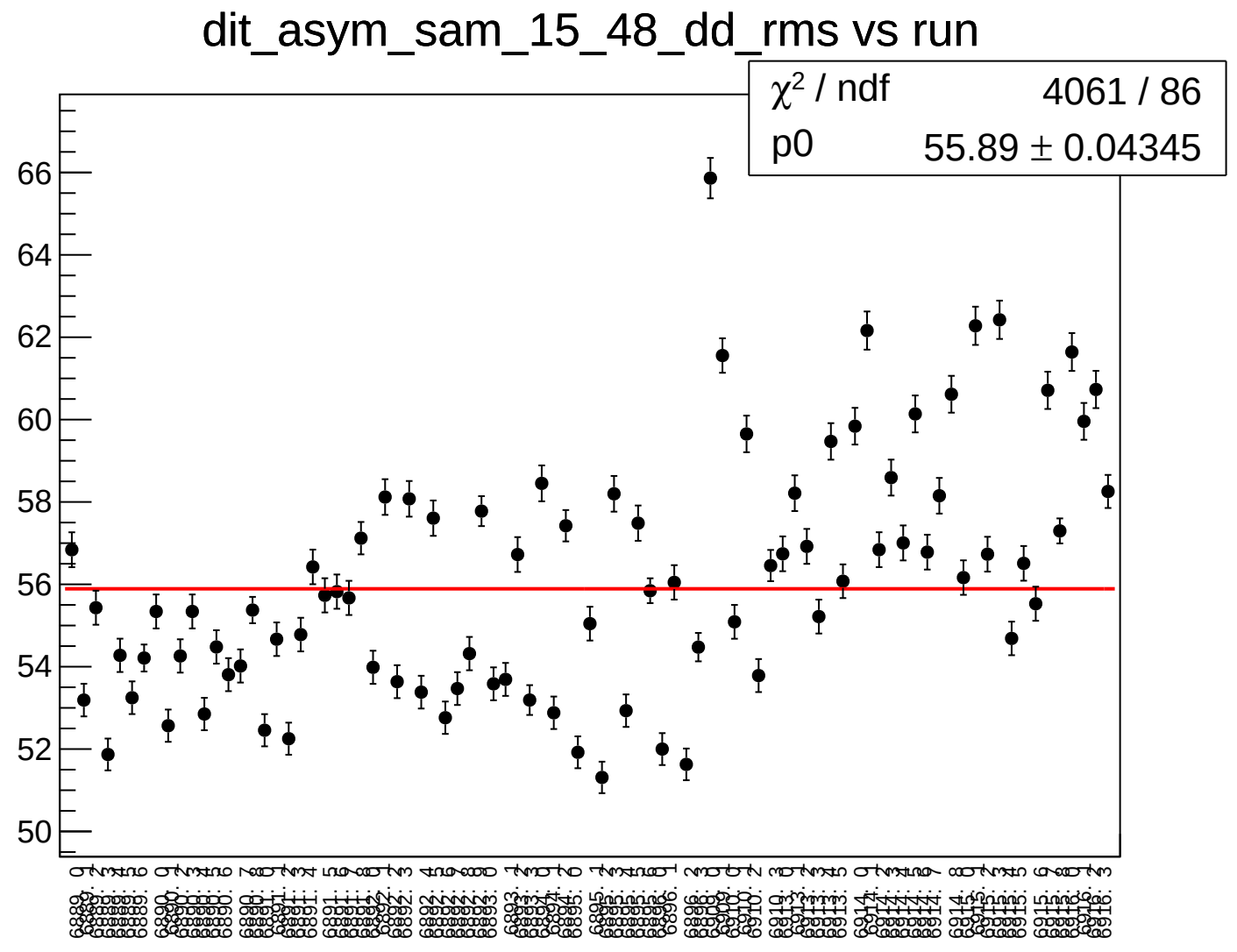

asym_sam_3726_avg_mean vs run
χ² / ndf 67.19 / 86
p0 −1483 ± 801.5
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 87
Mean −356.4
Std Dev 408.7
2
1
0
−1
−2
−3

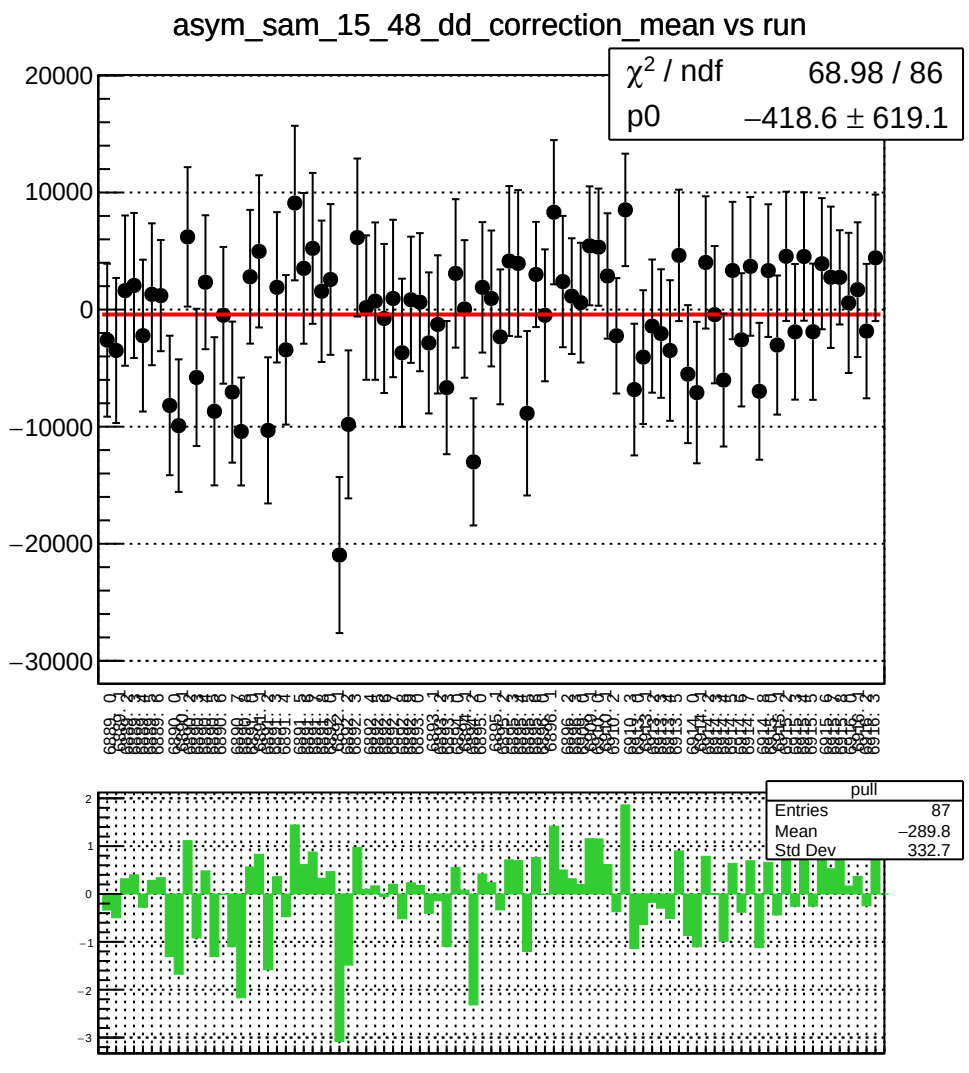

pull1D
Entries 87
Mean −0.009945
Std Dev 0.8787
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

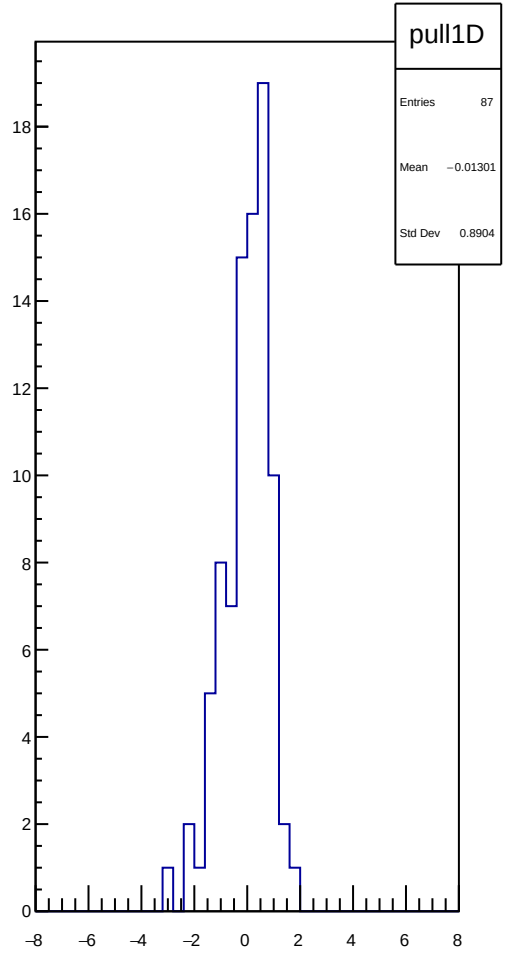

asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.136e+04 / 86
p0 727.4 ± 0.5667
900
850
800
750
700
650
600

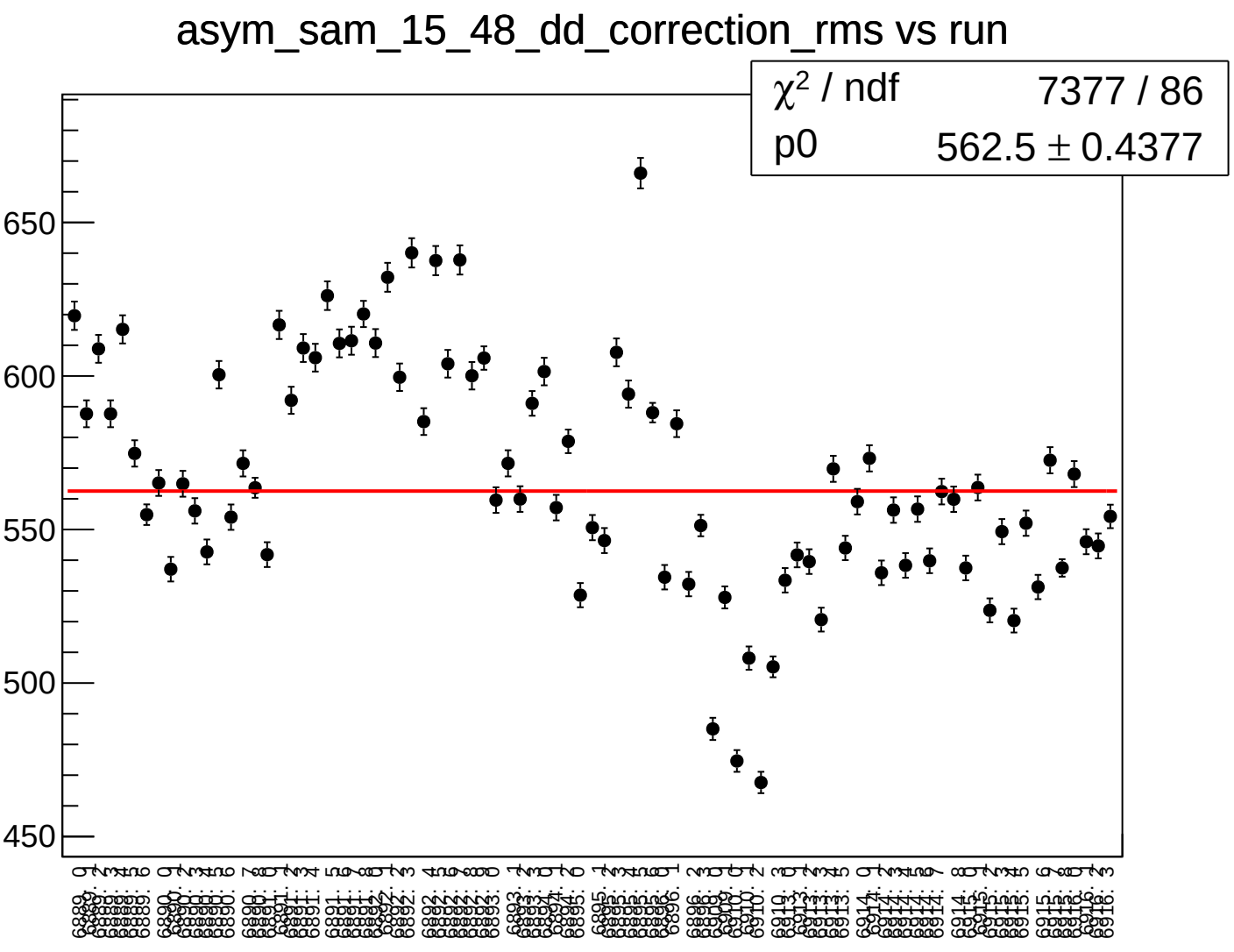

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 74.83 / 86
p0 61.79 ± 61.45
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 347.6
Std Dev 309.4
2
1
0
−1

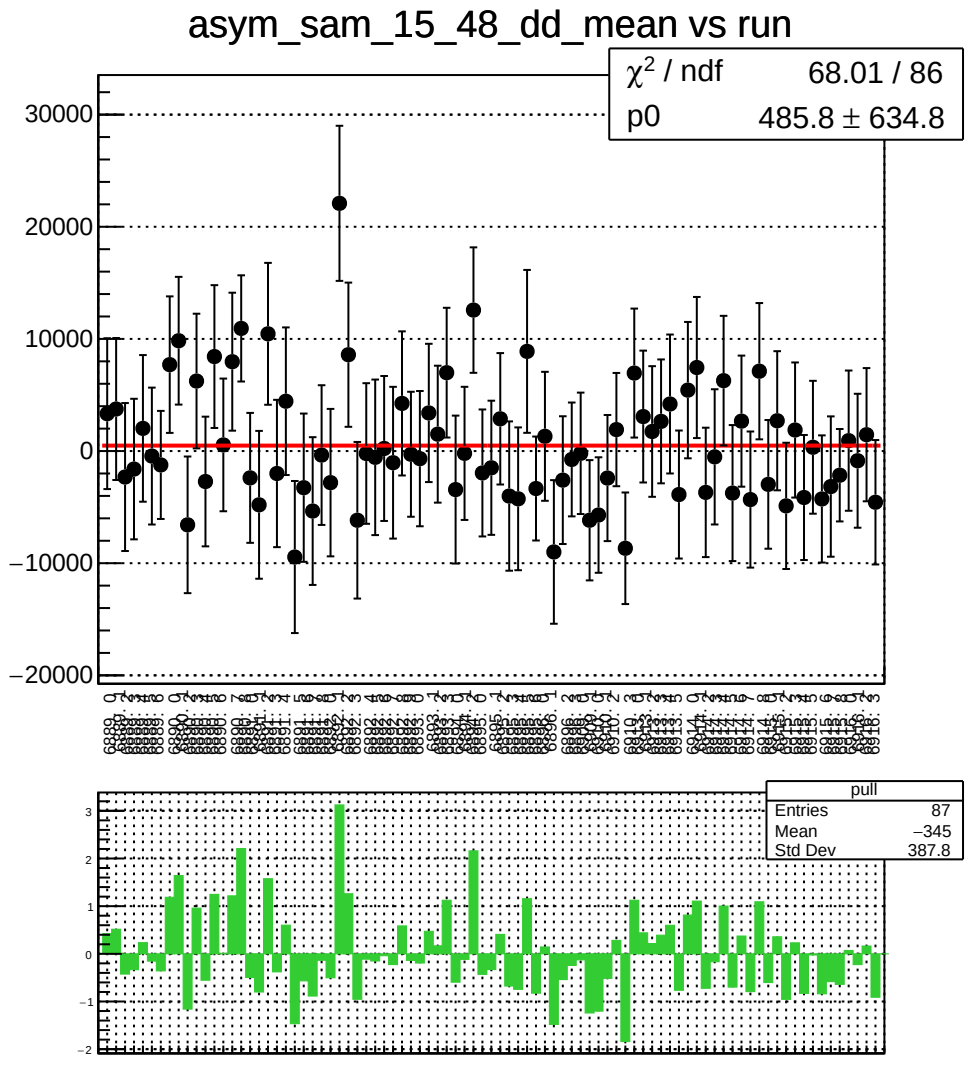

pull1D
Entries 87
Mean −0.006904
Std Dev 0.9274
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

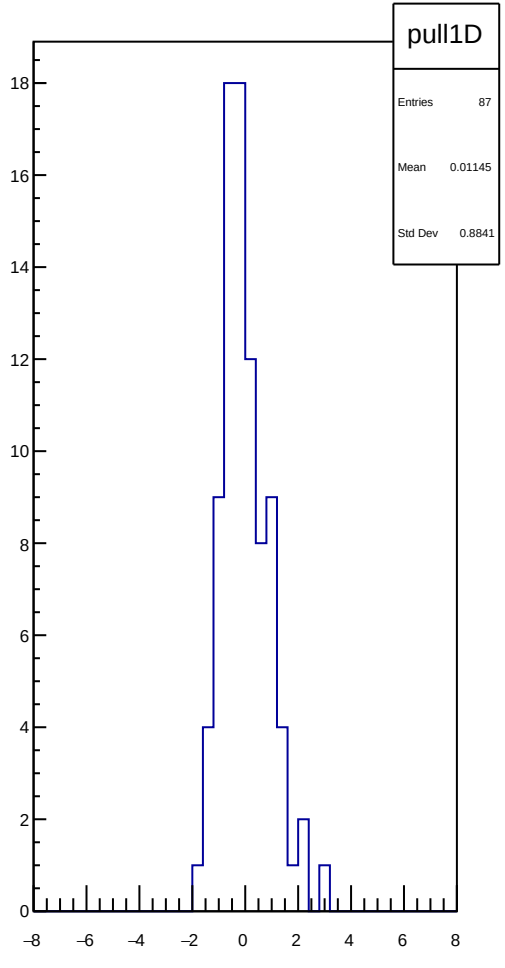

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 4061 / 86
p0 55.89 ± 0.04345
66
64
62
60
58
56
54
52
50

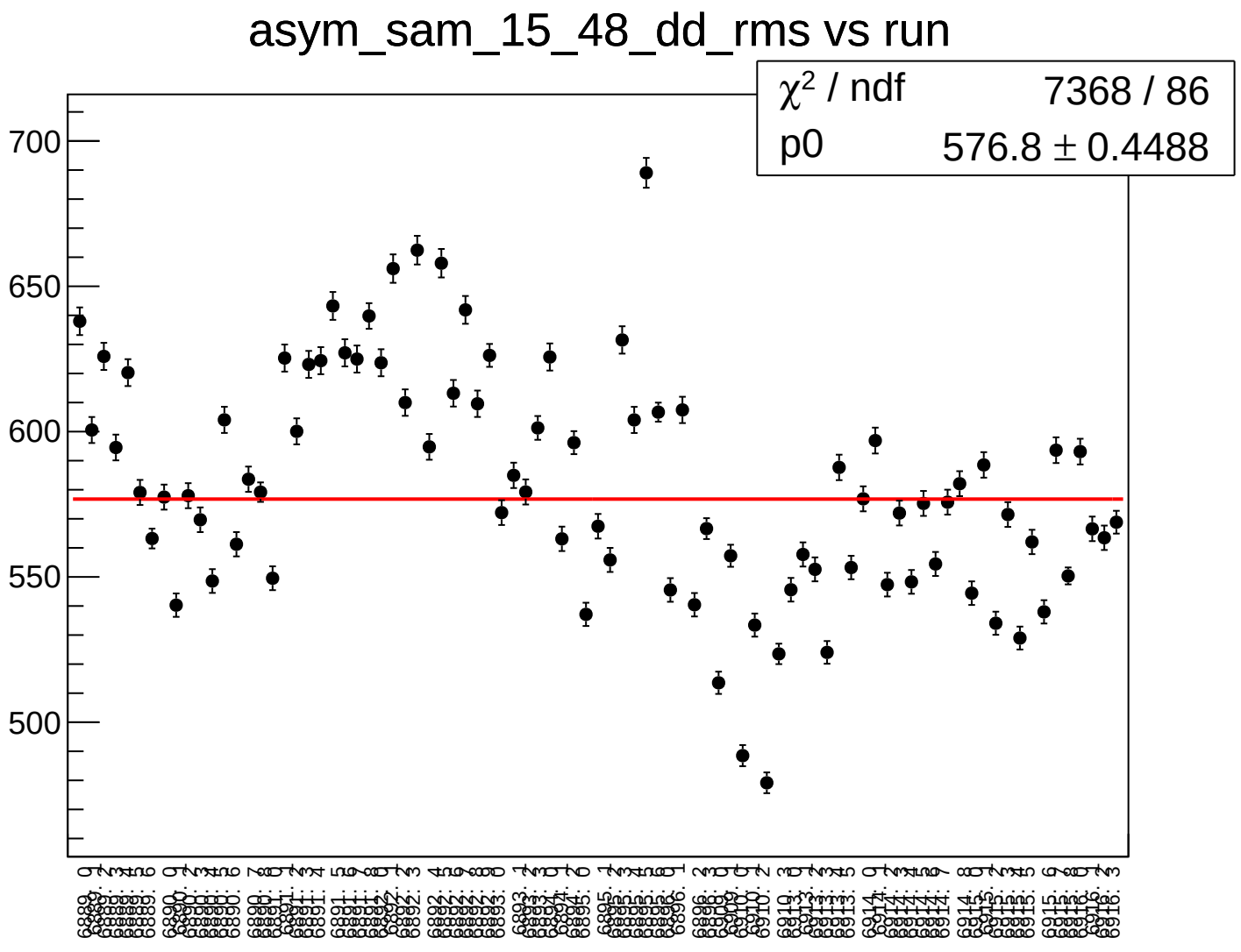

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 68.98 / 86
p0 −418.6 ± 619.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −289.8
Std Dev 332.7
2
1
0
−1
−2
−3

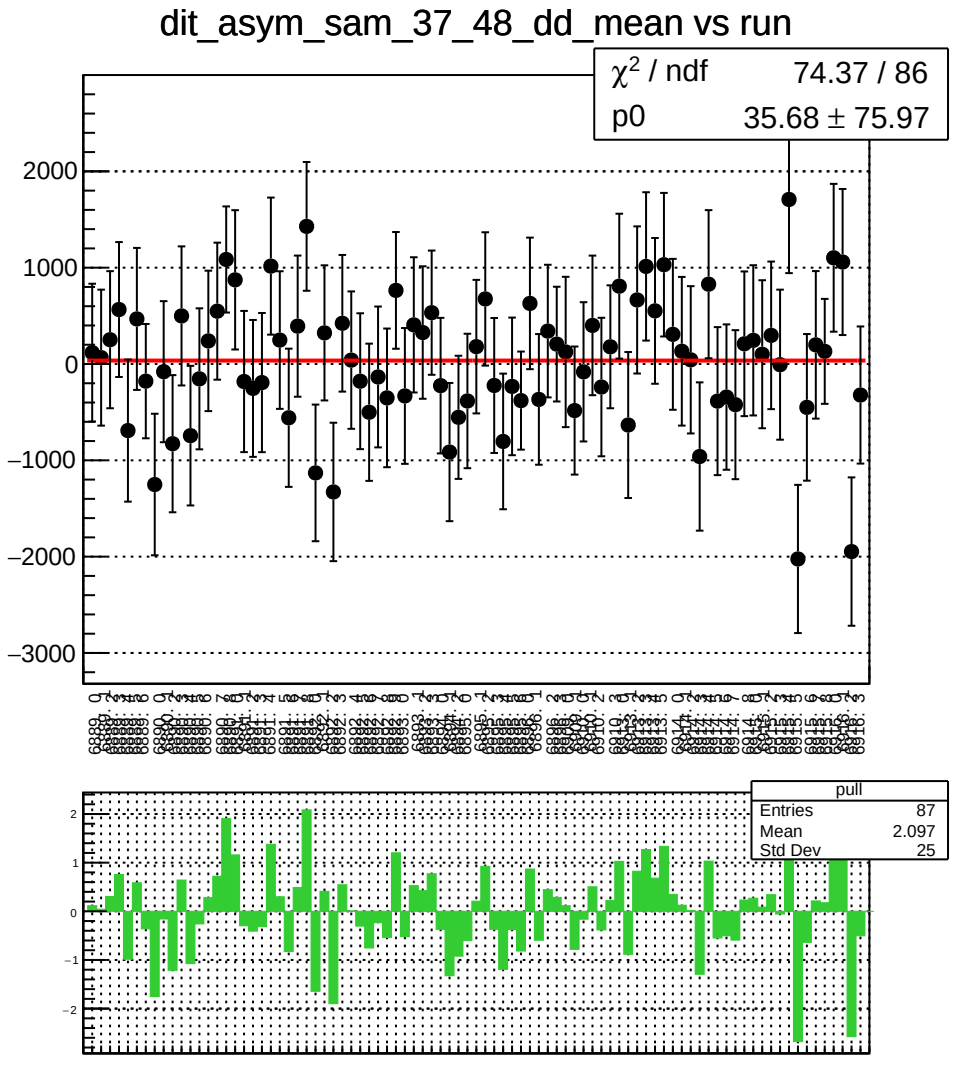

pull1D
Entries 87
Mean −0.01301
Std Dev 0.8904
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

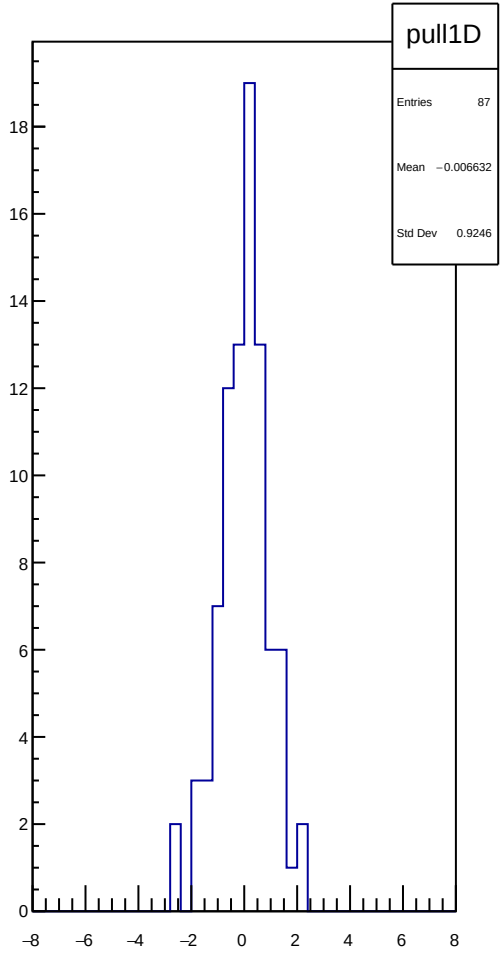

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 7377 / 86
p0 562.5 ± 0.4377
650
600
550
500
450

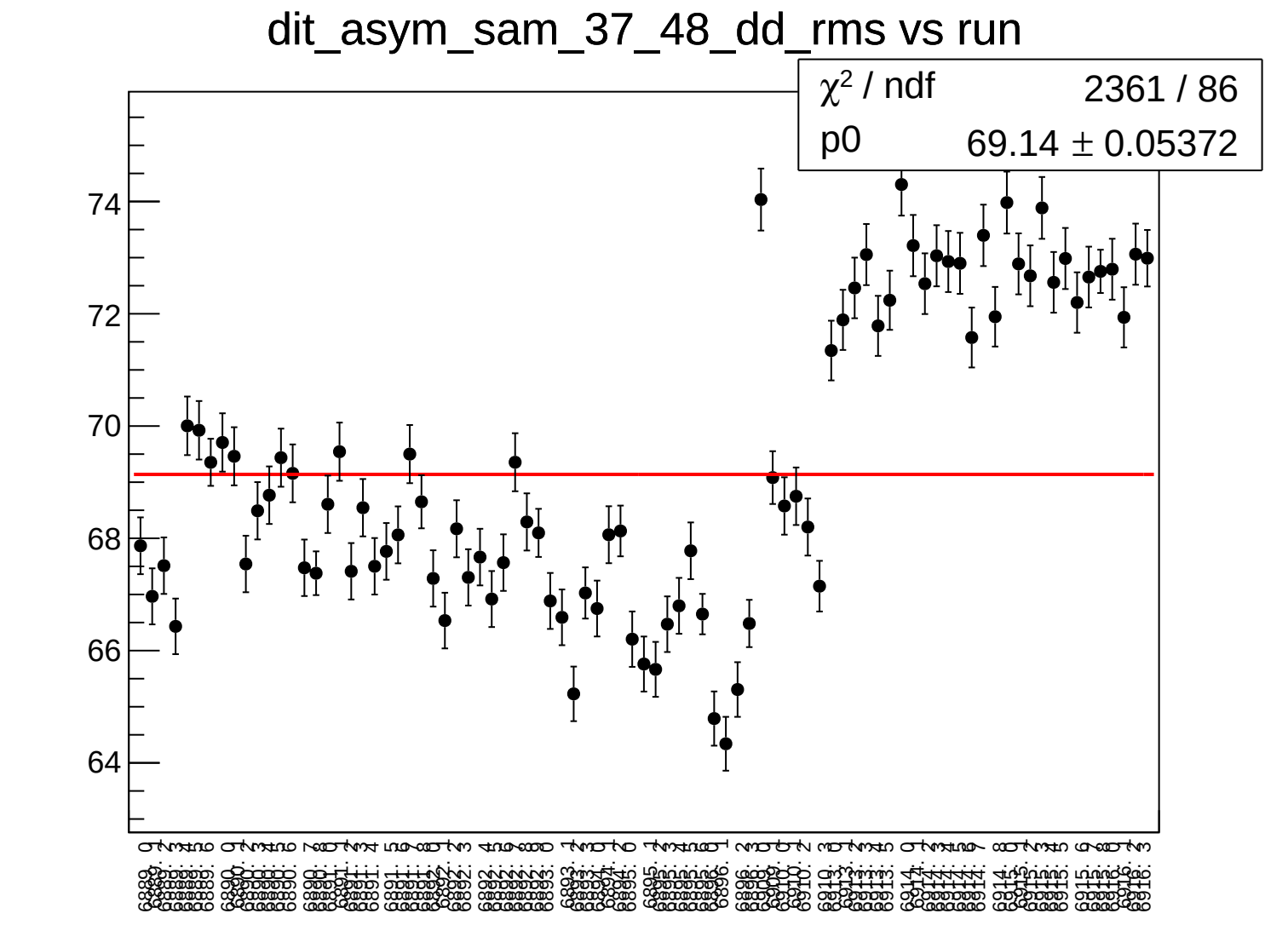

asym_sam_15_48_dd_mean vs run
χ² / ndf 68.01 / 86
p0 485.8 ± 634.8
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −345
Std Dev 387.8
3
2
1
0
−1
−2

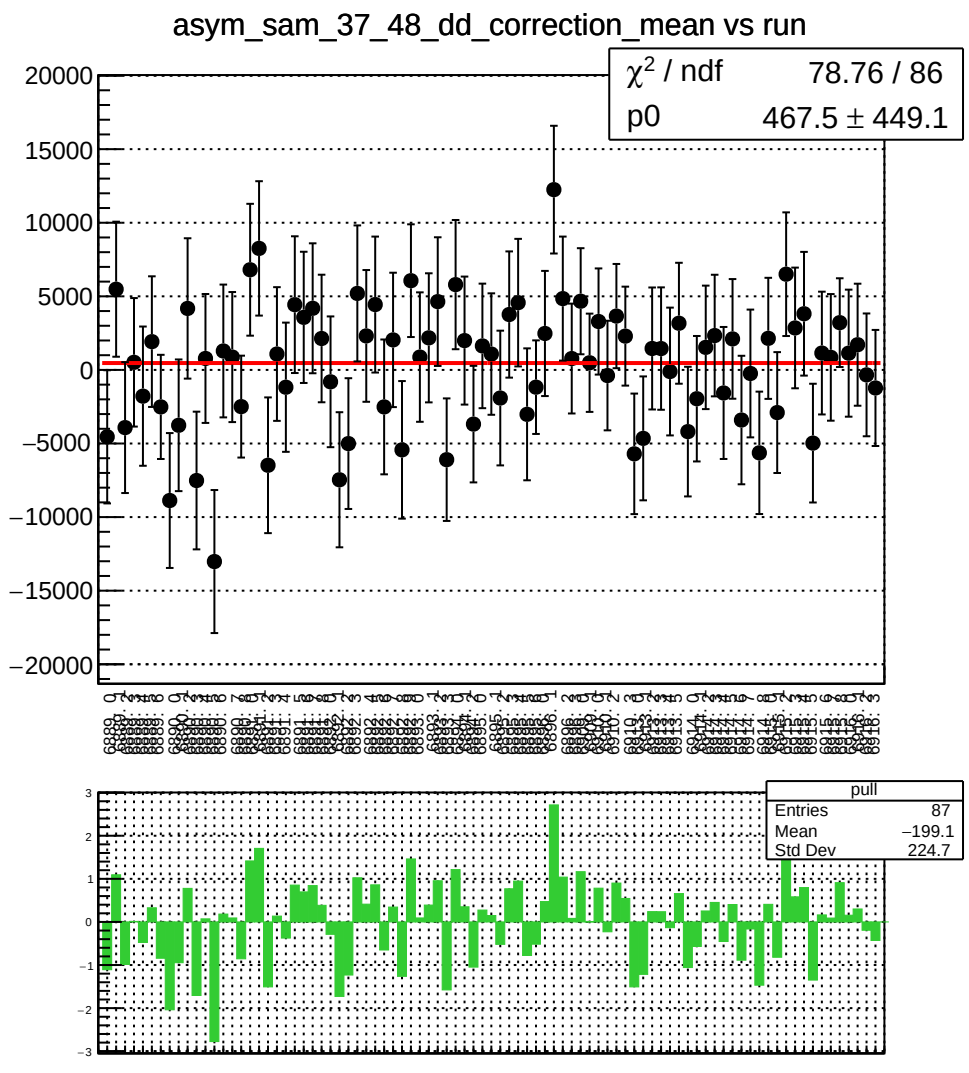

pull1D
Entries 87
Mean 0.01145
Std Dev 0.8841
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

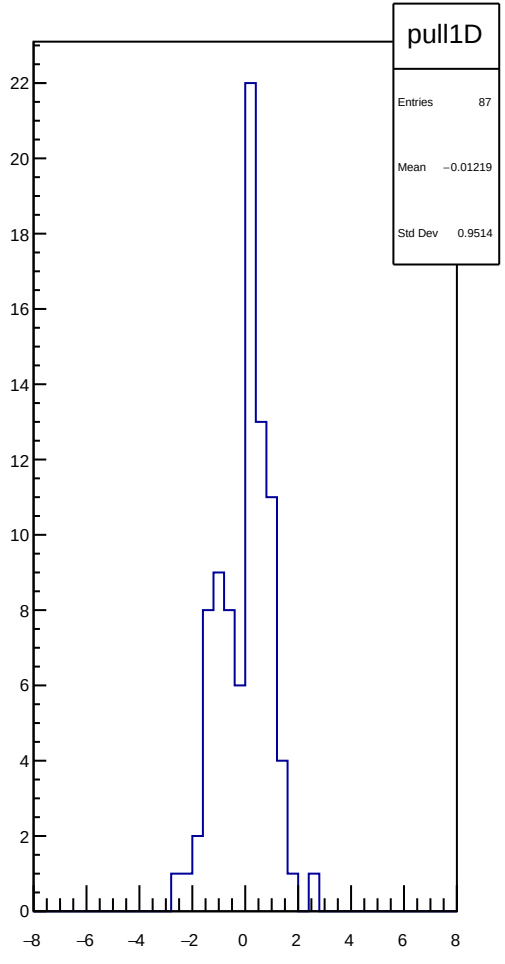

asym_sam_15_48_dd_rms vs run
χ² / ndf 7368 / 86
p0 576.8 ± 0.4488
700
650
600
550
500

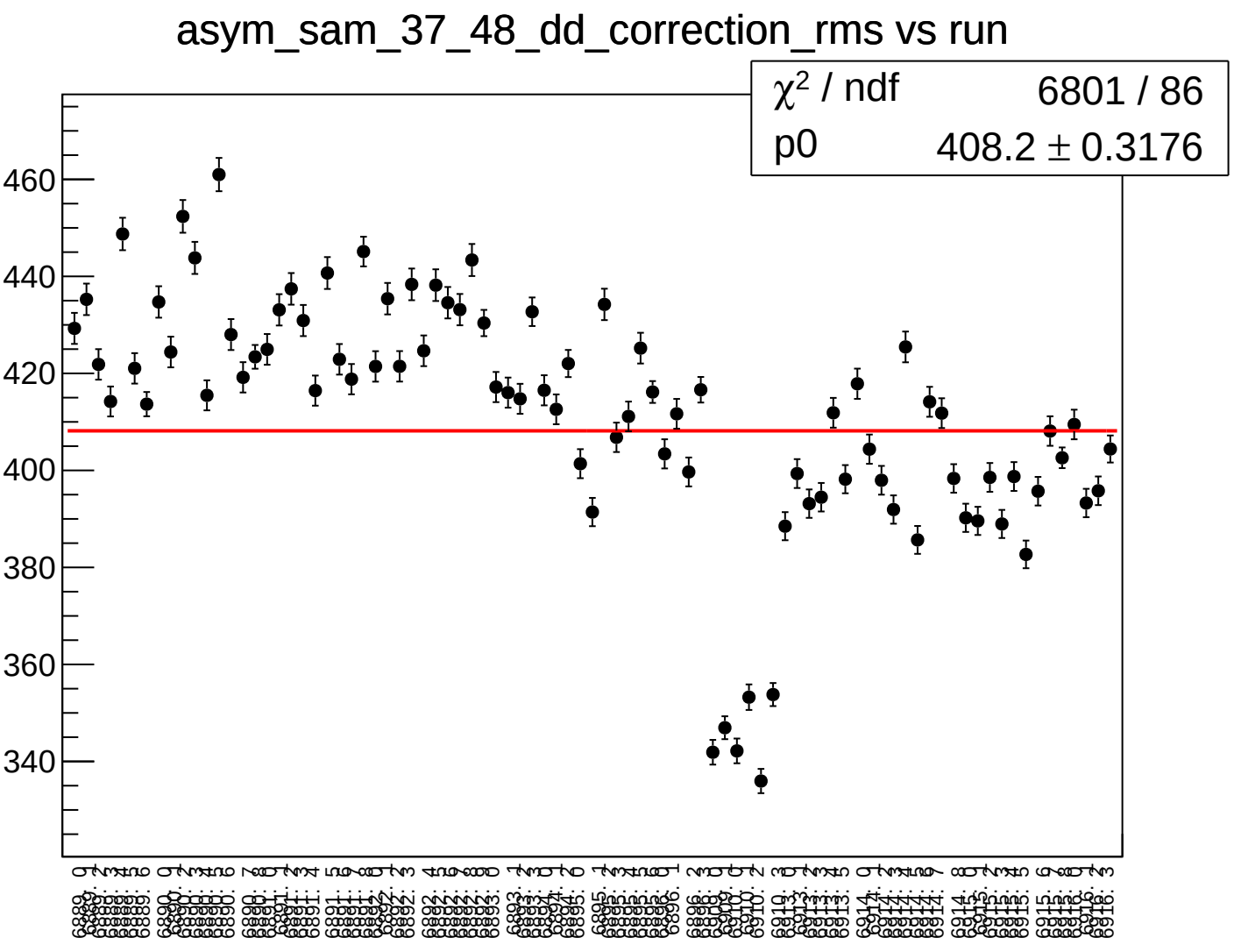

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 74.37 / 86
p0 35.68 ± 75.97
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean 2.097
Std Dev 25
2
1
0
−1
−2

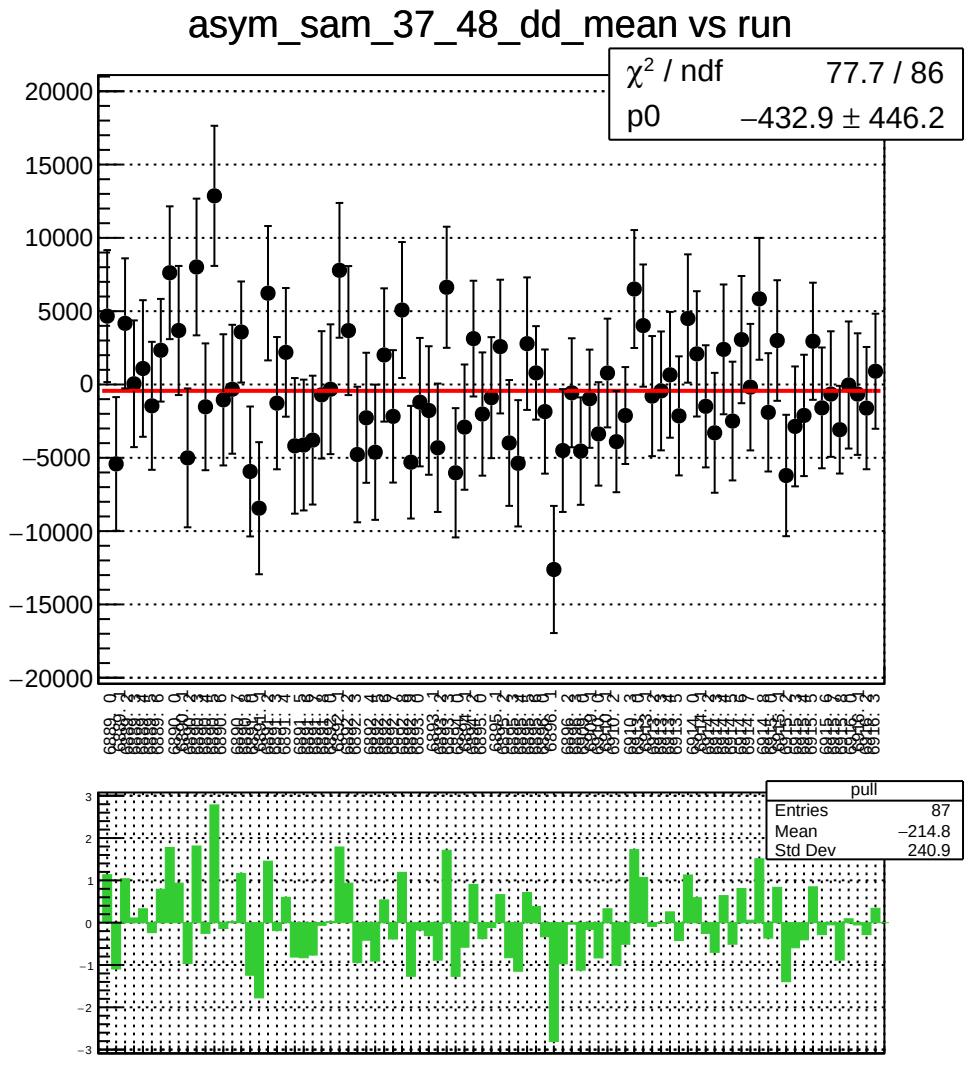

pull1D
Entries 87
Mean −0.006632
Std Dev 0.9246
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

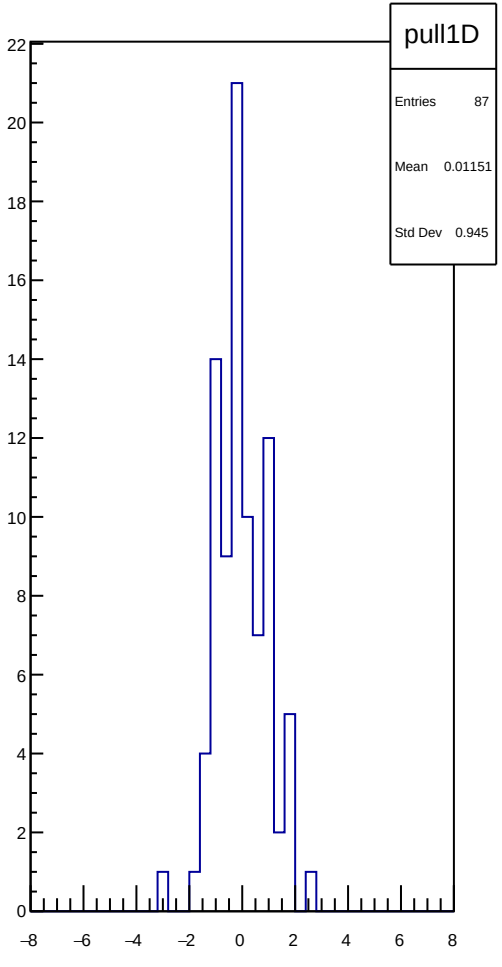

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 2361 / 86
p0 69.14 ± 0.05372
74
72
70
68
66
64

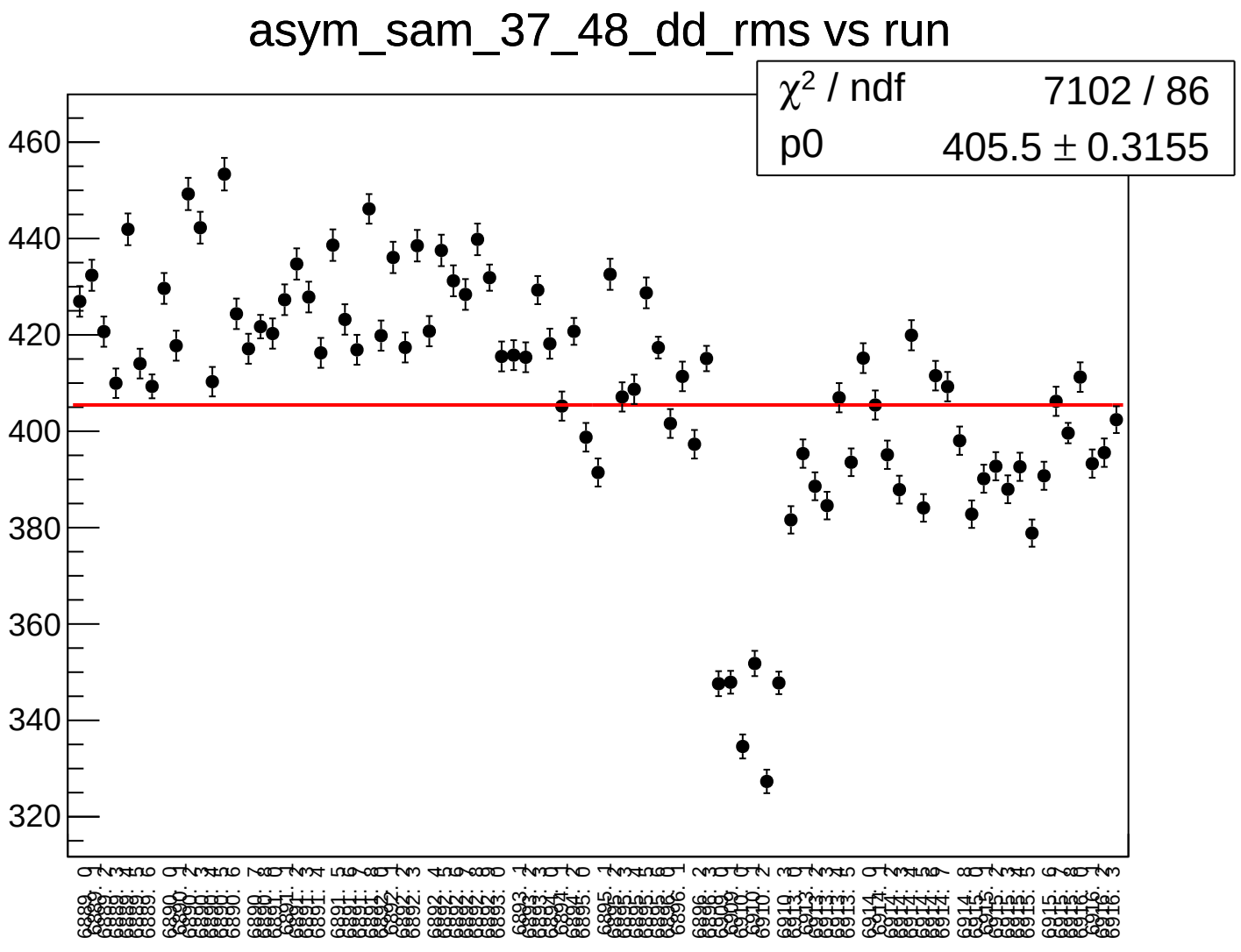

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 78.76 / 86
p0 467.5 ± 449.1
pull
Entries 87
Mean −199.1
Std Dev 224.7

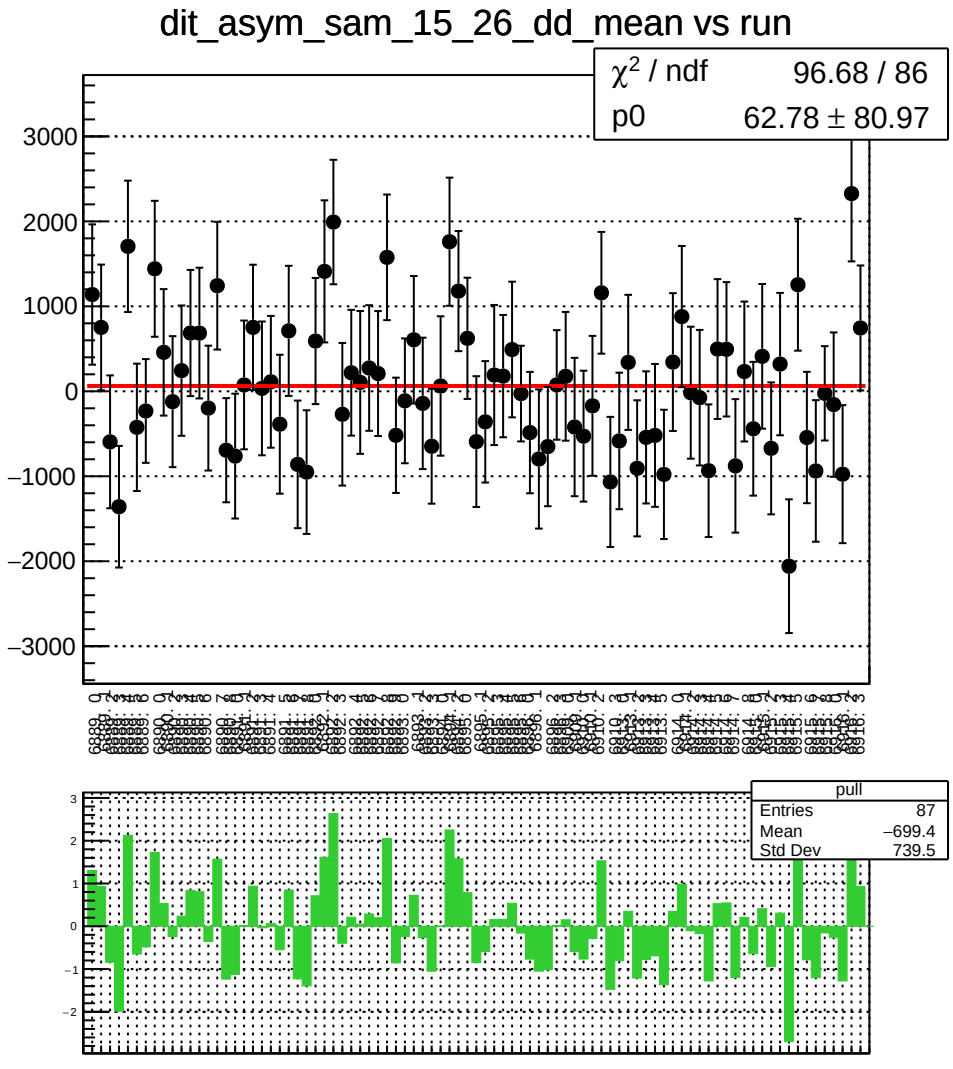

pull1D
Entries 87
Mean −0.01219
Std Dev 0.9514

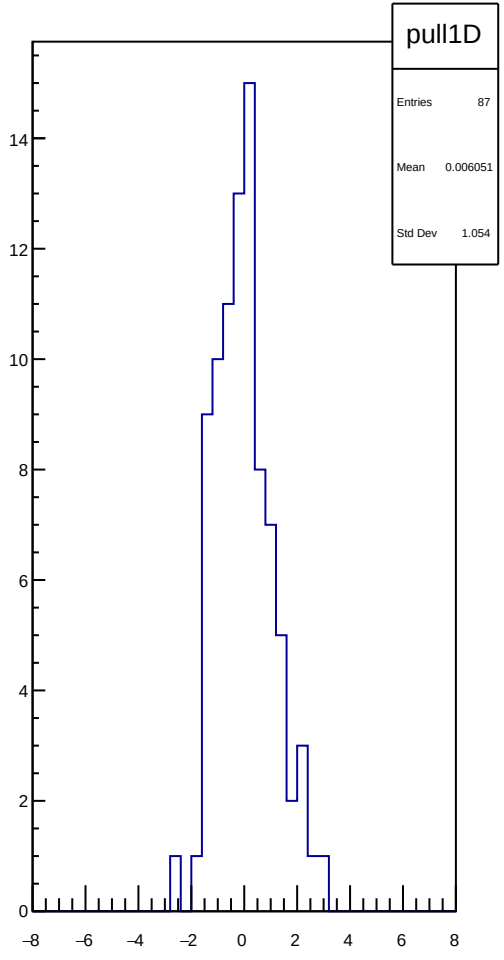

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 6801 / 86
p0 408.2 ± 0.3176
460
440
420
400
380
360
340

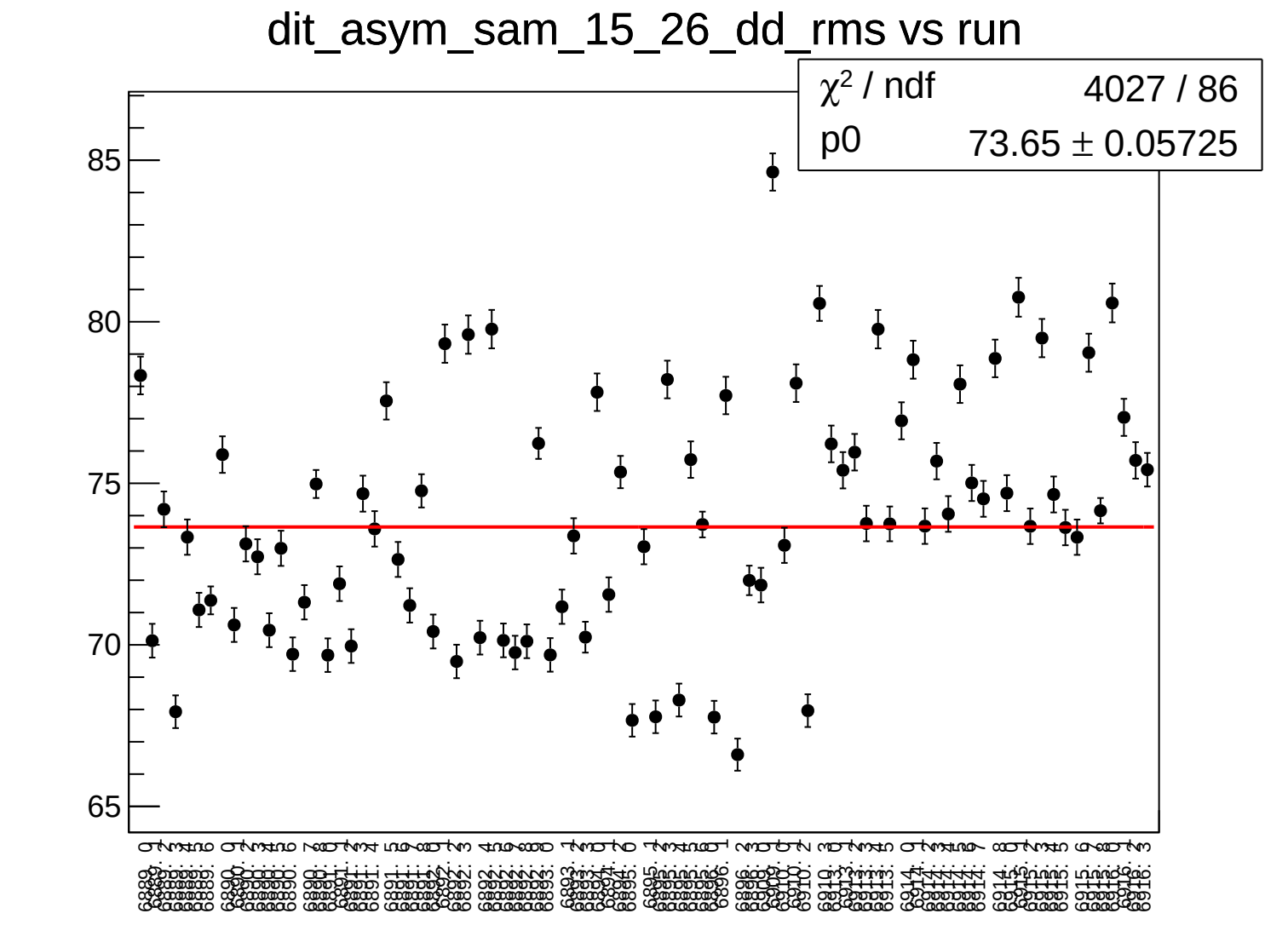

asym_sam_37_48_dd_mean vs run
χ² / ndf 77.7 / 86
p0 −432.9 ± 446.2
pull
Entries 87
Mean −214.8
Std Dev 240.9

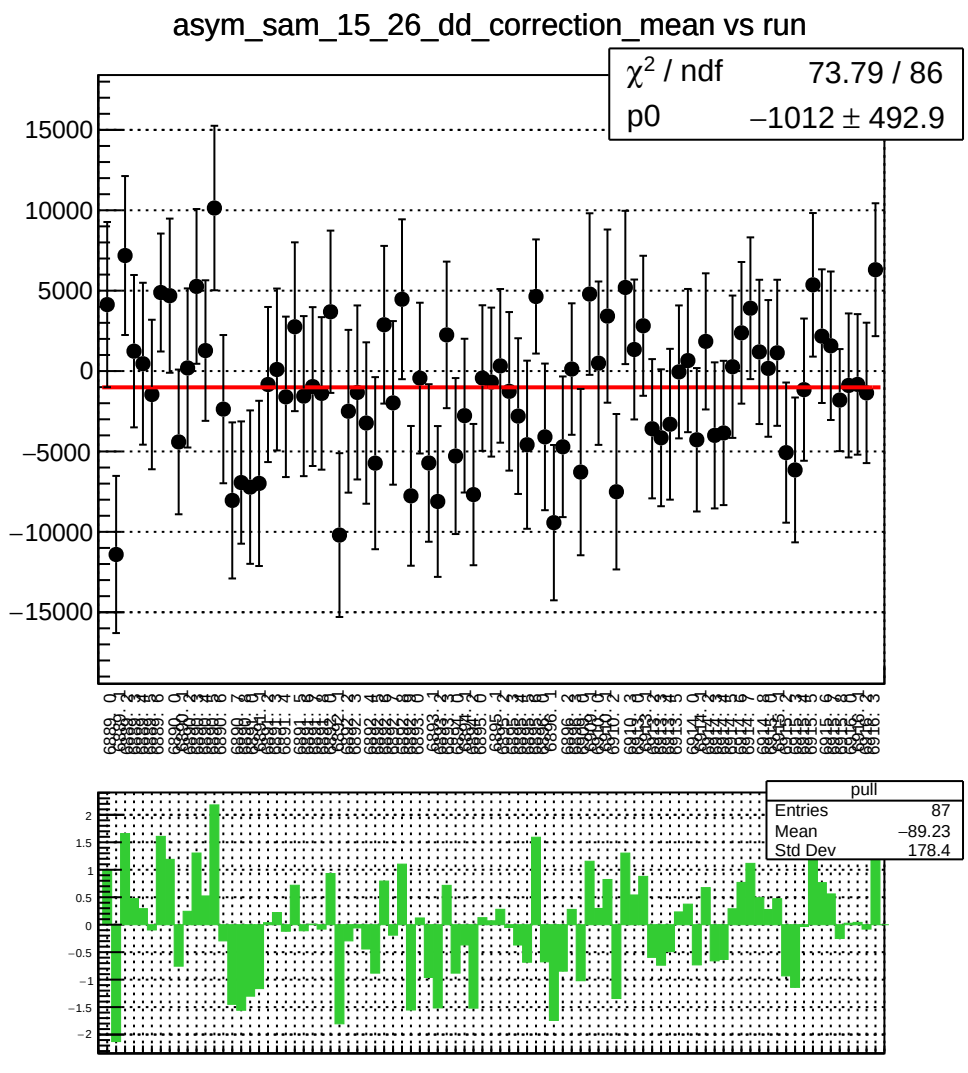

pull1D
Entries 87
Mean 0.01151
Std Dev 0.945

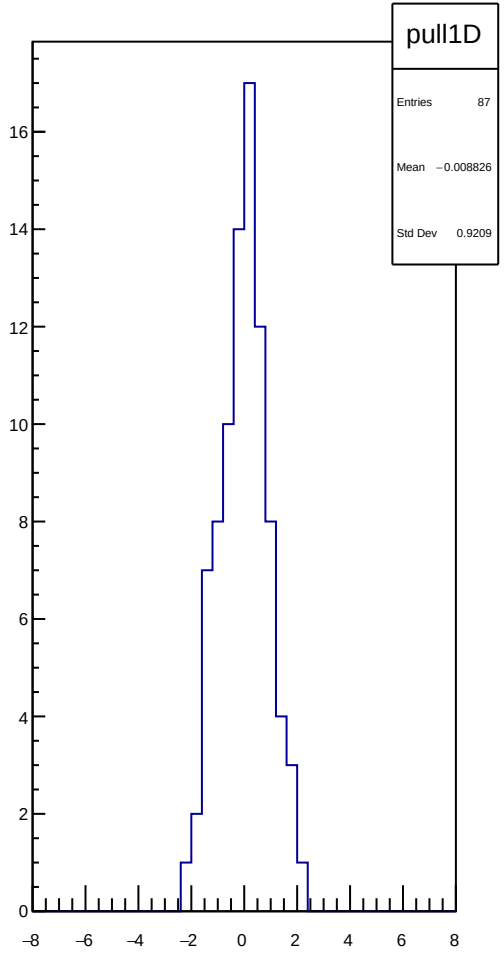

asym_sam_37_48_dd_rms vs run
χ² / ndf 7102 / 86
p0 405.5 ± 0.3155
460
440
420
400
380
360
340
320

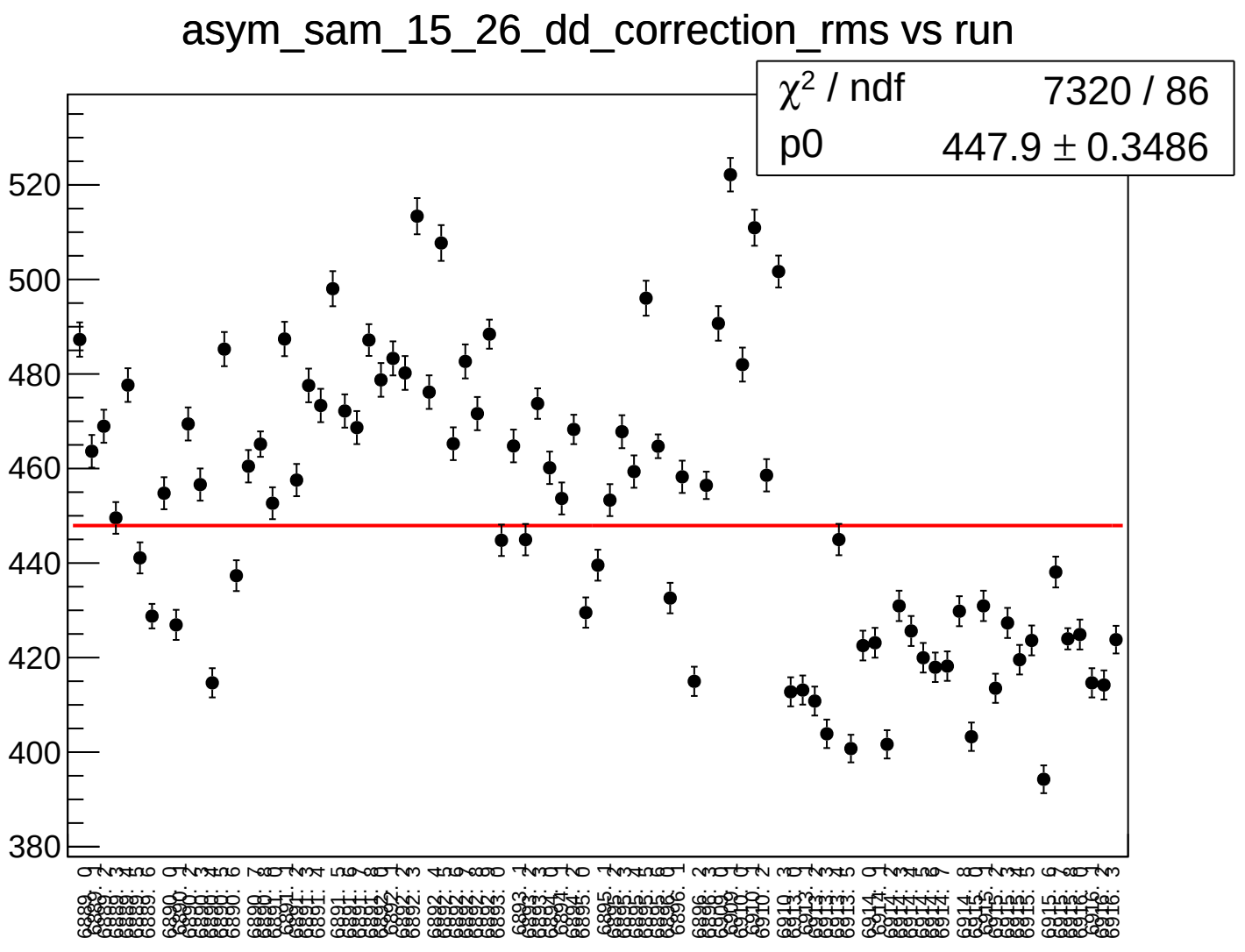

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 96.68 / 86
p0 62.78 ± 80.97
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean −699.4
Std Dev 739.5
3
2
1
0
−1
−2

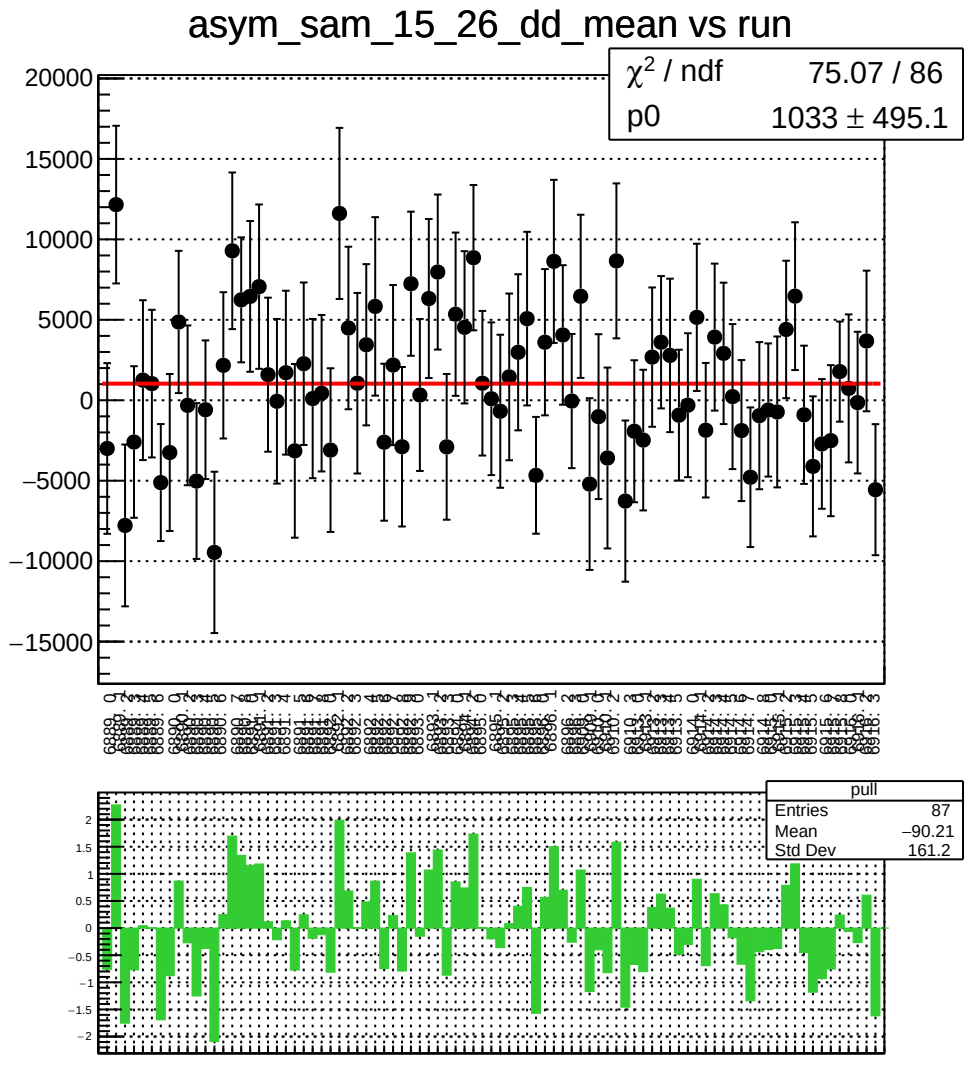

pull1D
Entries 87
Mean 0.006051
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

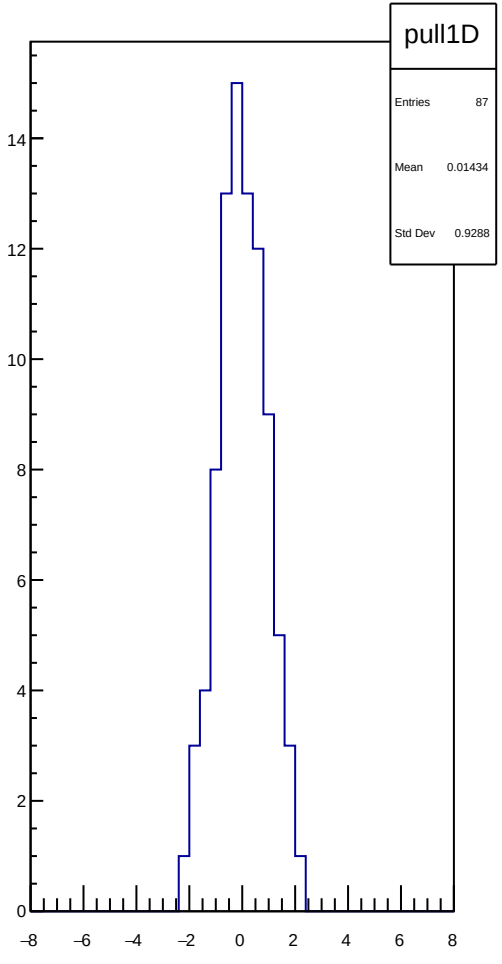

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 4027 / 86
p0 73.65 ± 0.05725
85
80
75
70
65

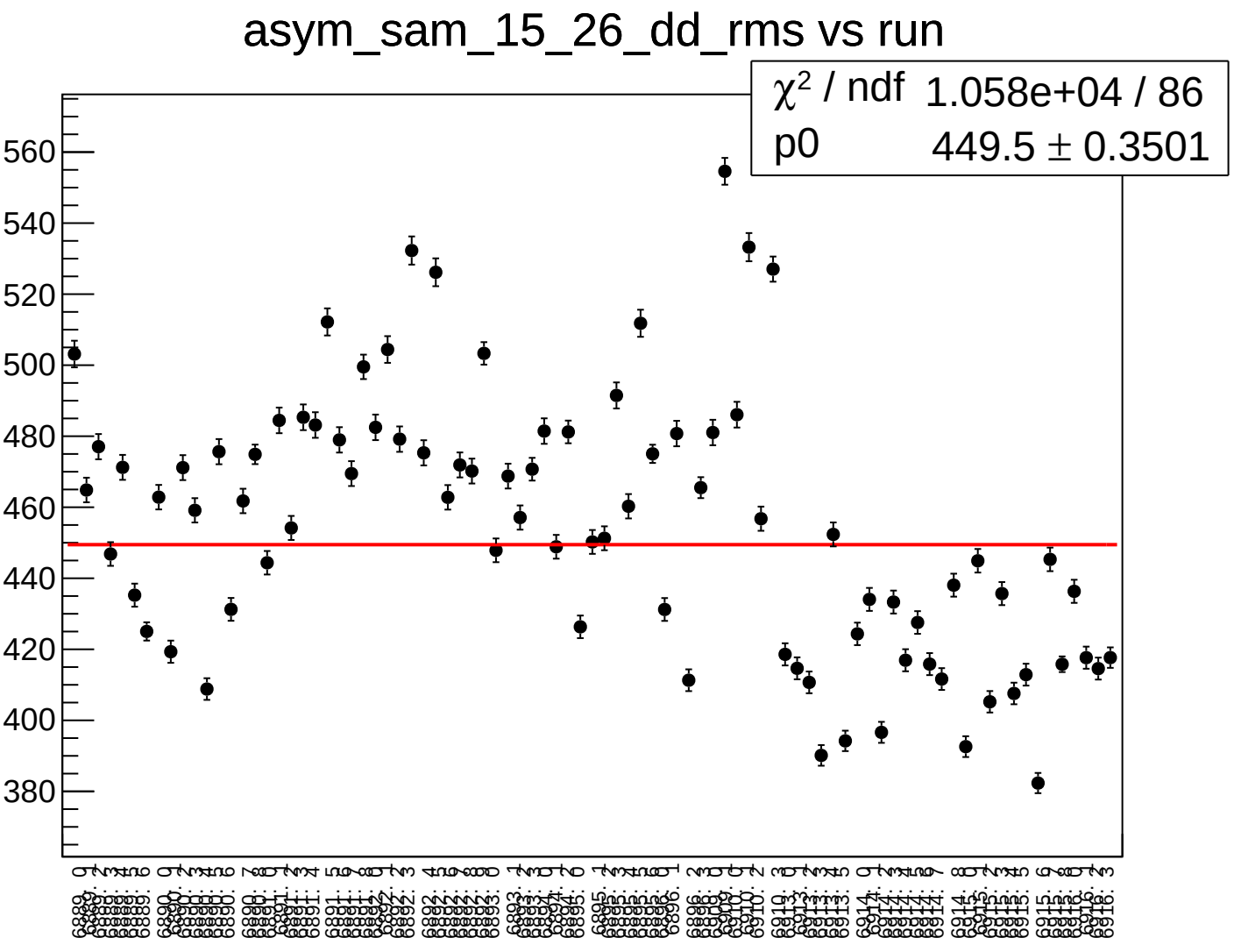

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 73.79 / 86
p0 −1012 ± 492.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 87
Mean −89.23
Std Dev 178.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

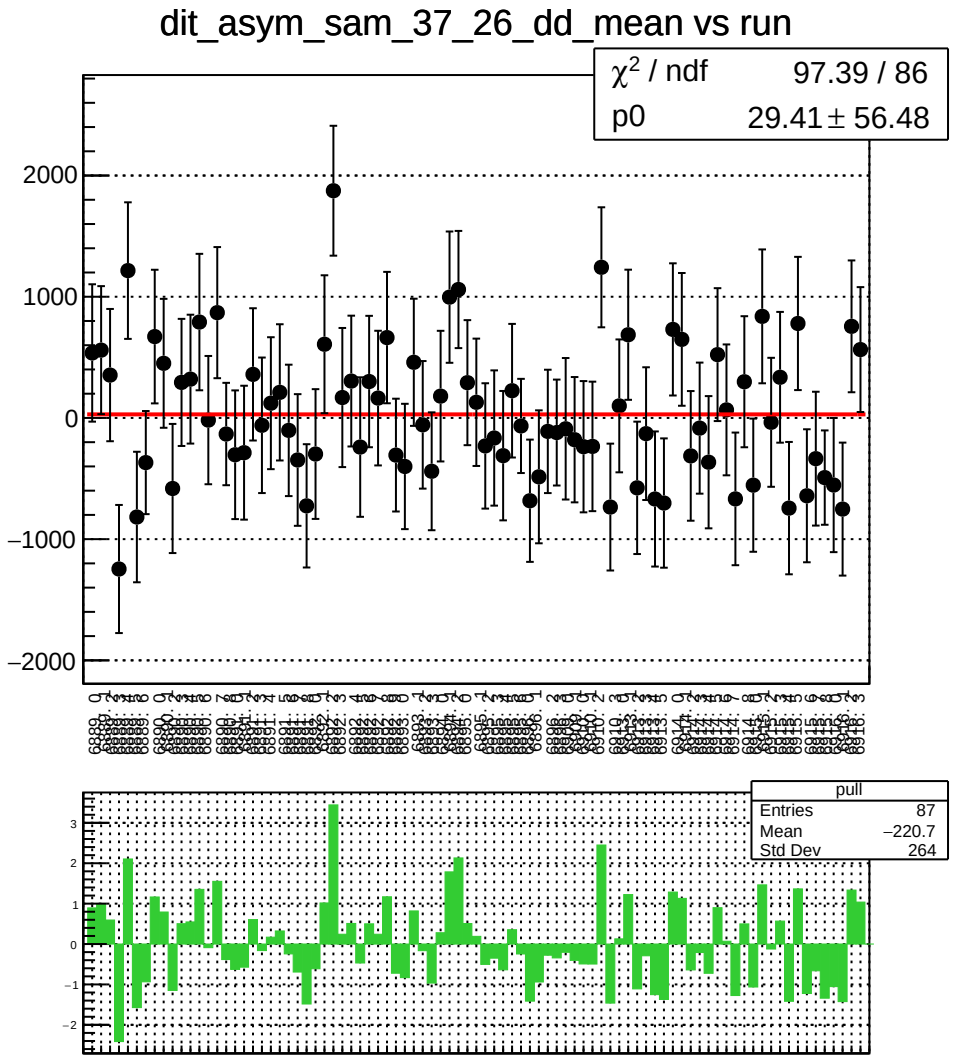

pull1D
Entries 87
Mean −0.008826
Std Dev 0.9209
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

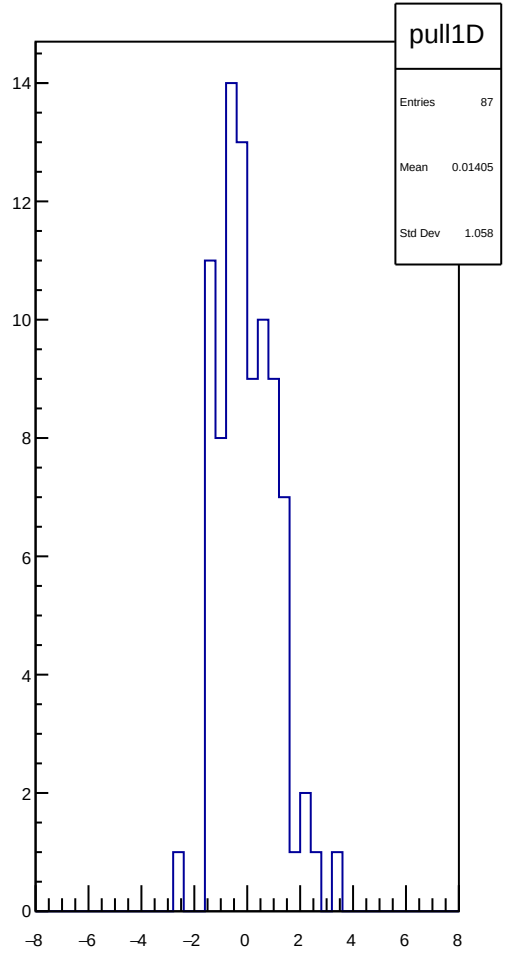

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 7320 / 86
p0 447.9 ± 0.3486
520
500
480
460
440
420
400
380

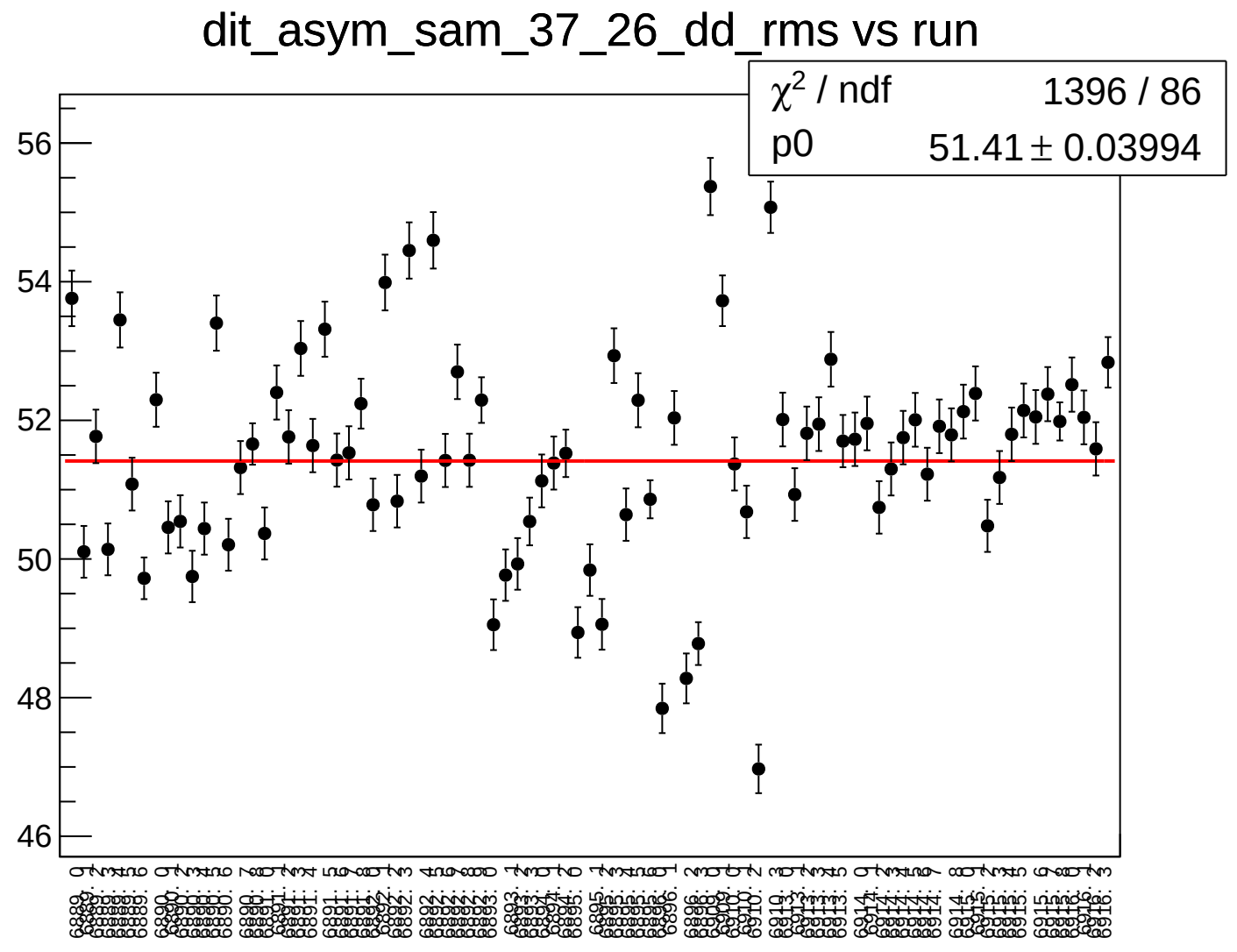

asym_sam_15_26_dd_mean vs run
χ² / ndf 75.07 / 86
p0 1033 ± 495.1
pull
Entries 87
Mean −90.21
Std Dev 161.2

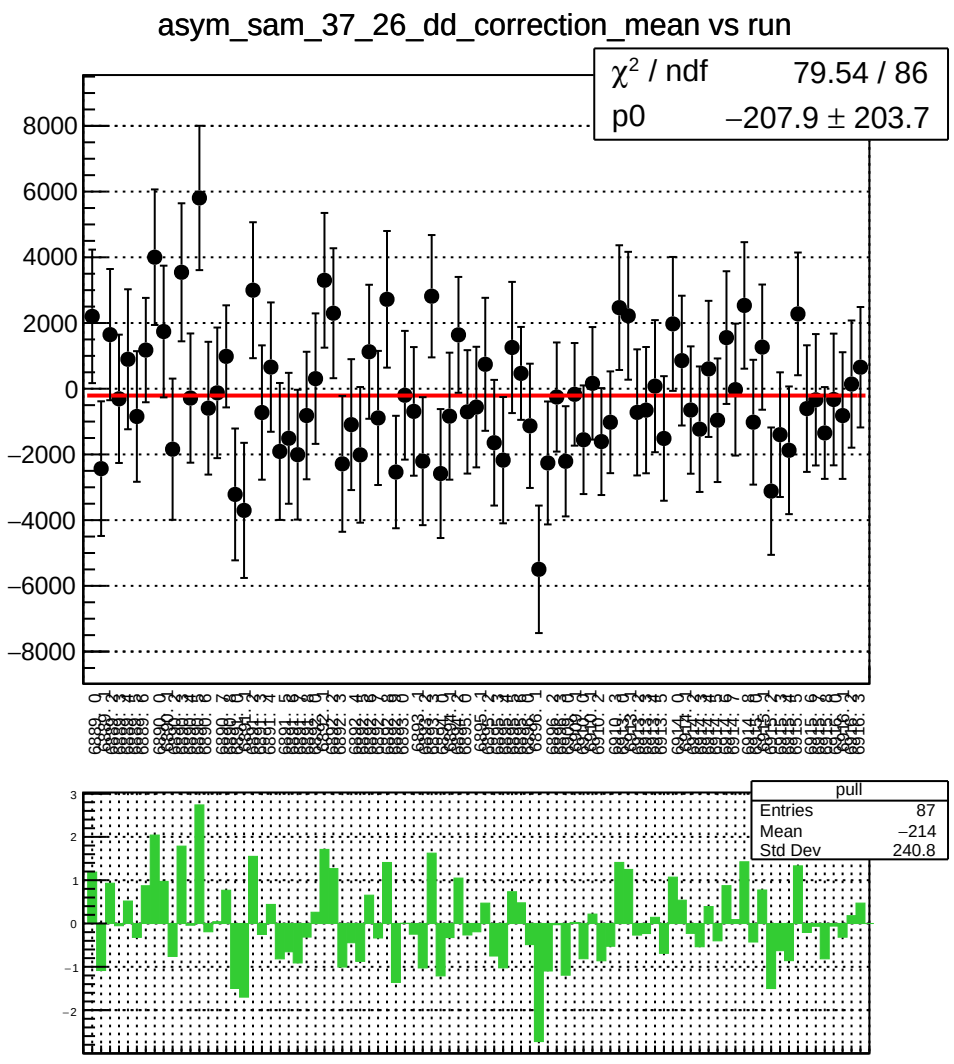

pull1D
Entries 87
Mean 0.01434
Std Dev 0.9288

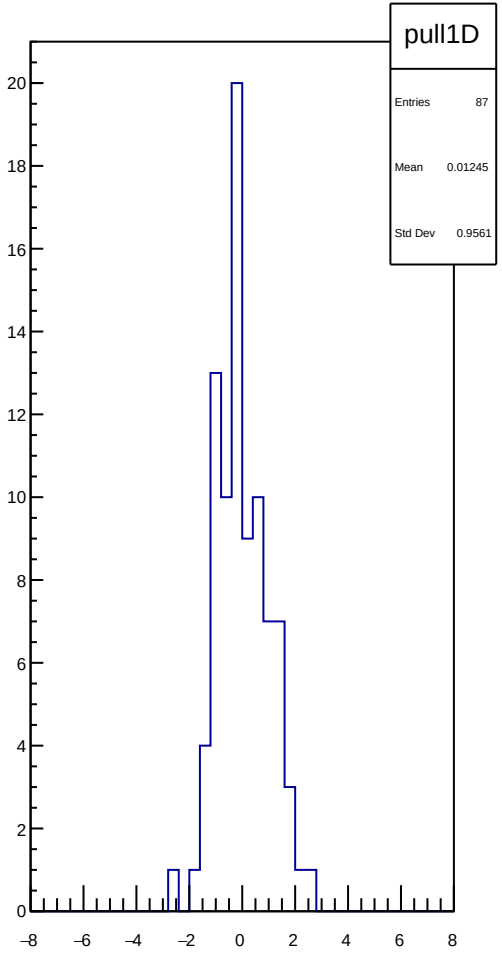

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.058e+04 / 86
p0 449.5 ± 0.3501
560
540
520
500
480
460
440
420
400
380

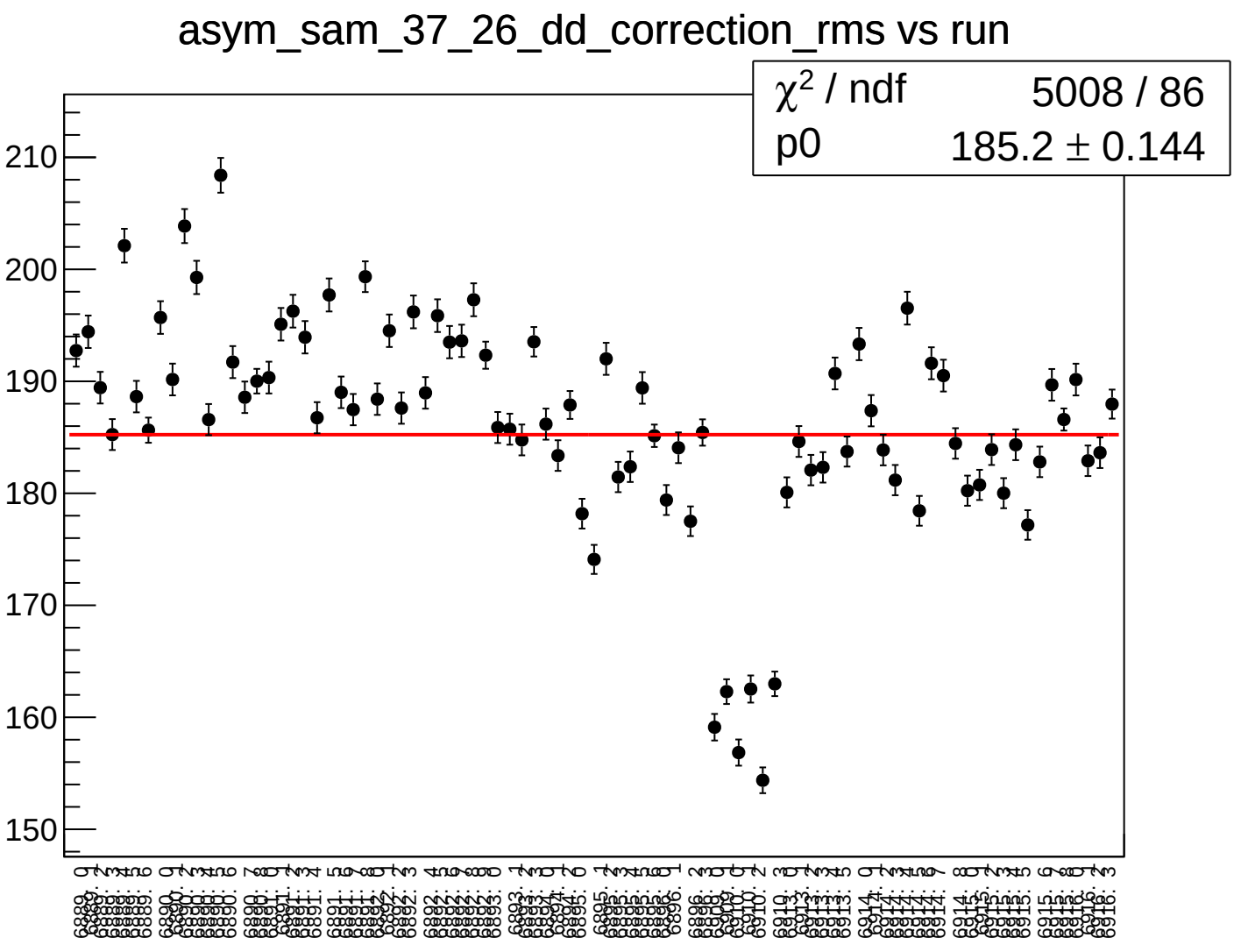

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 97.39 / 86
p0 29.41 ± 56.48
2000
1000
0
−1000
−2000
pull
Entries 87
Mean −220.7
Std Dev 264
3
2
1
0
−1
−2

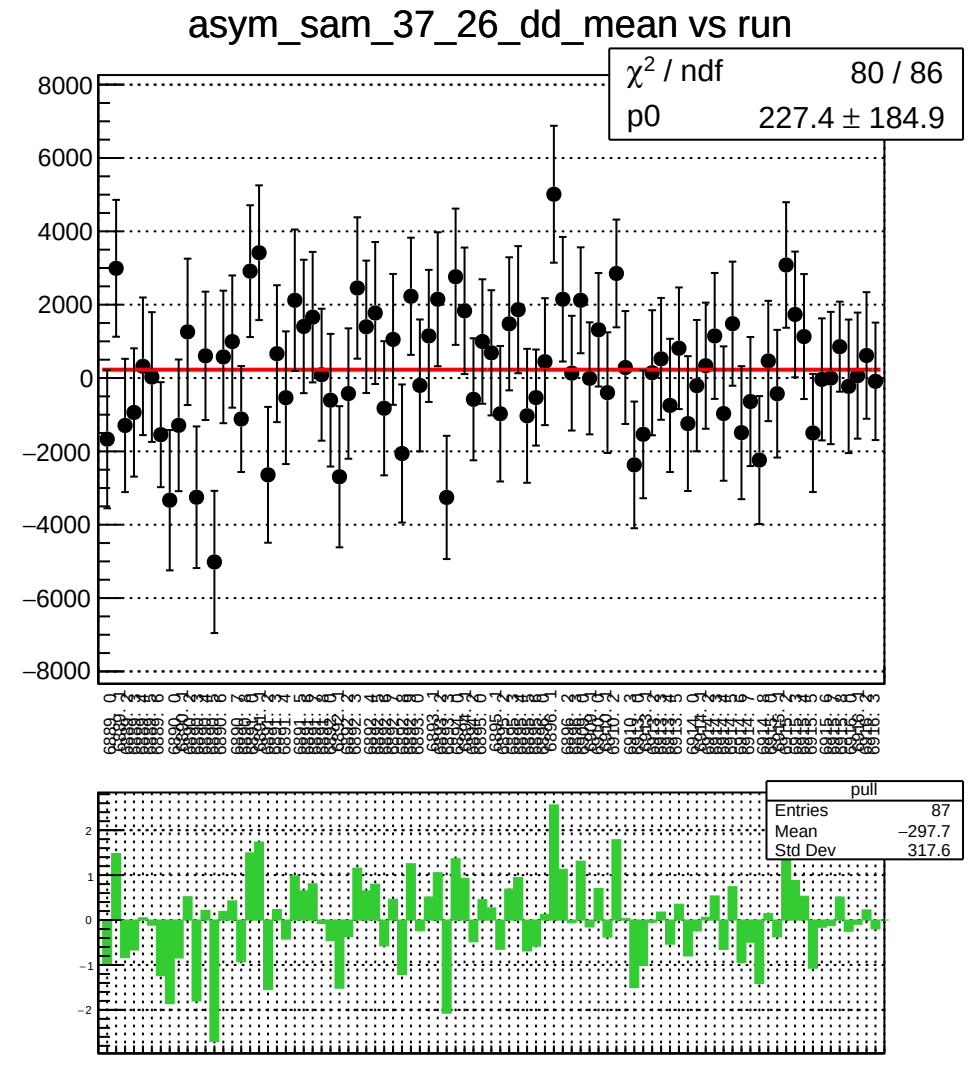

pull1D
Entries 87
Mean 0.01405
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

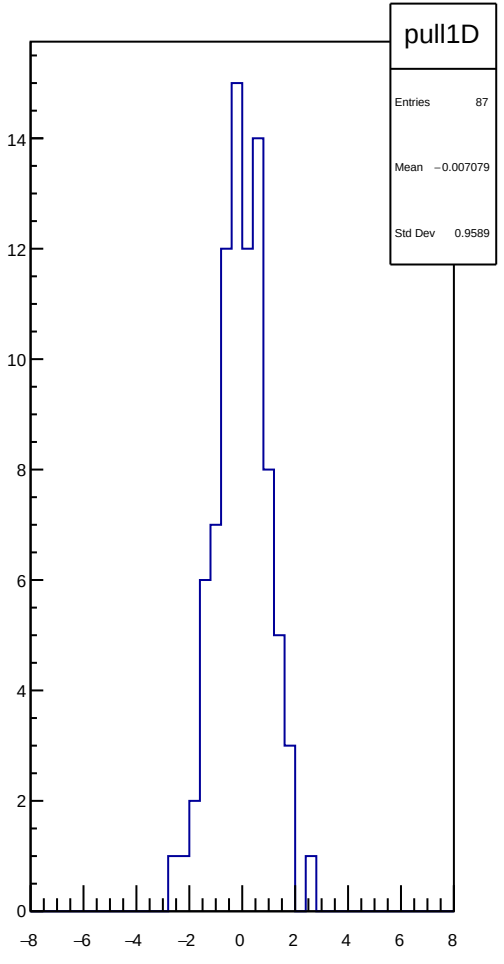

dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1396 / 86
p0 51.41 ± 0.03994
56
54
52
50
48
46

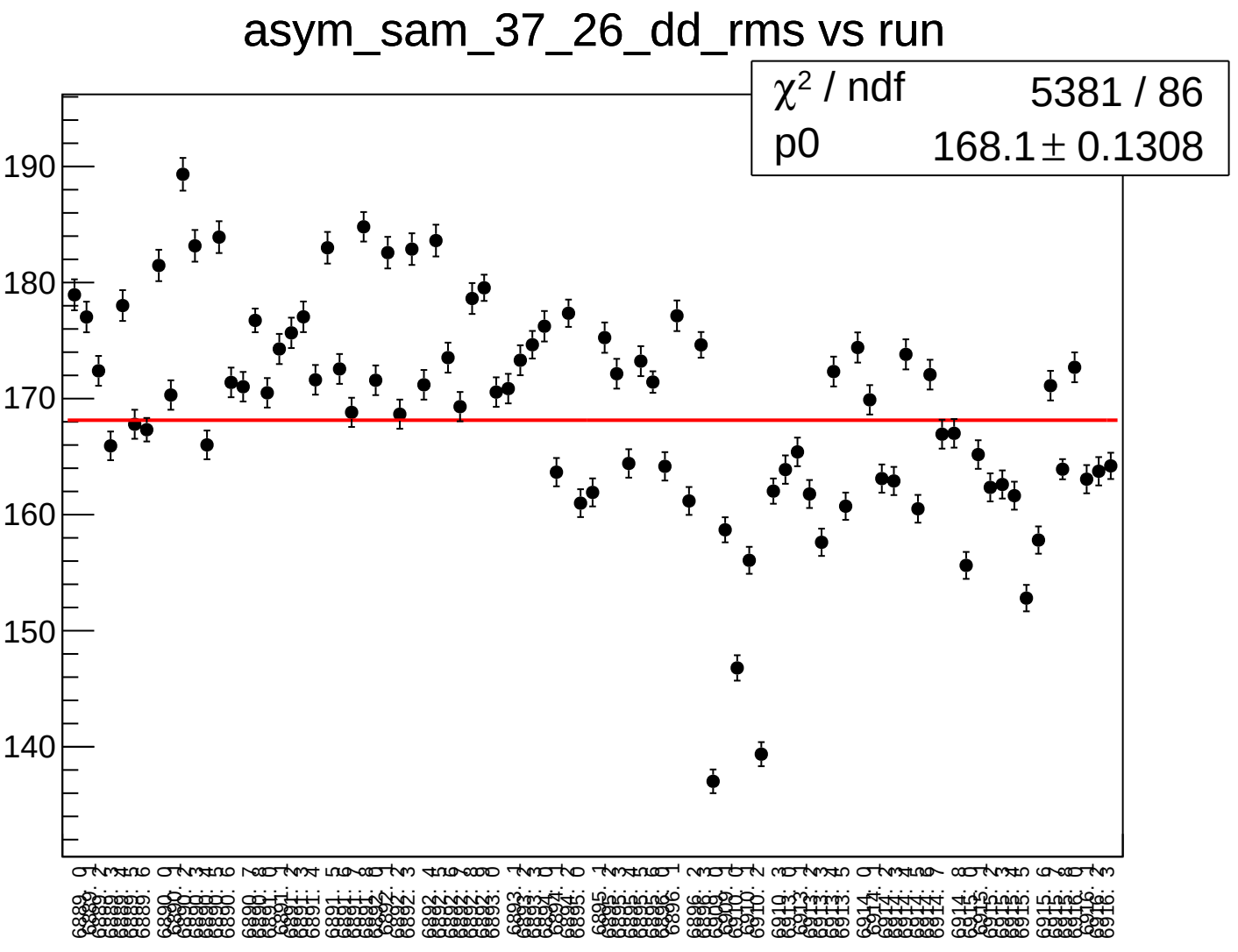

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 79.54 / 86
p0 −207.9 ± 203.7
pull
Entries 87
Mean −214
Std Dev 240.8

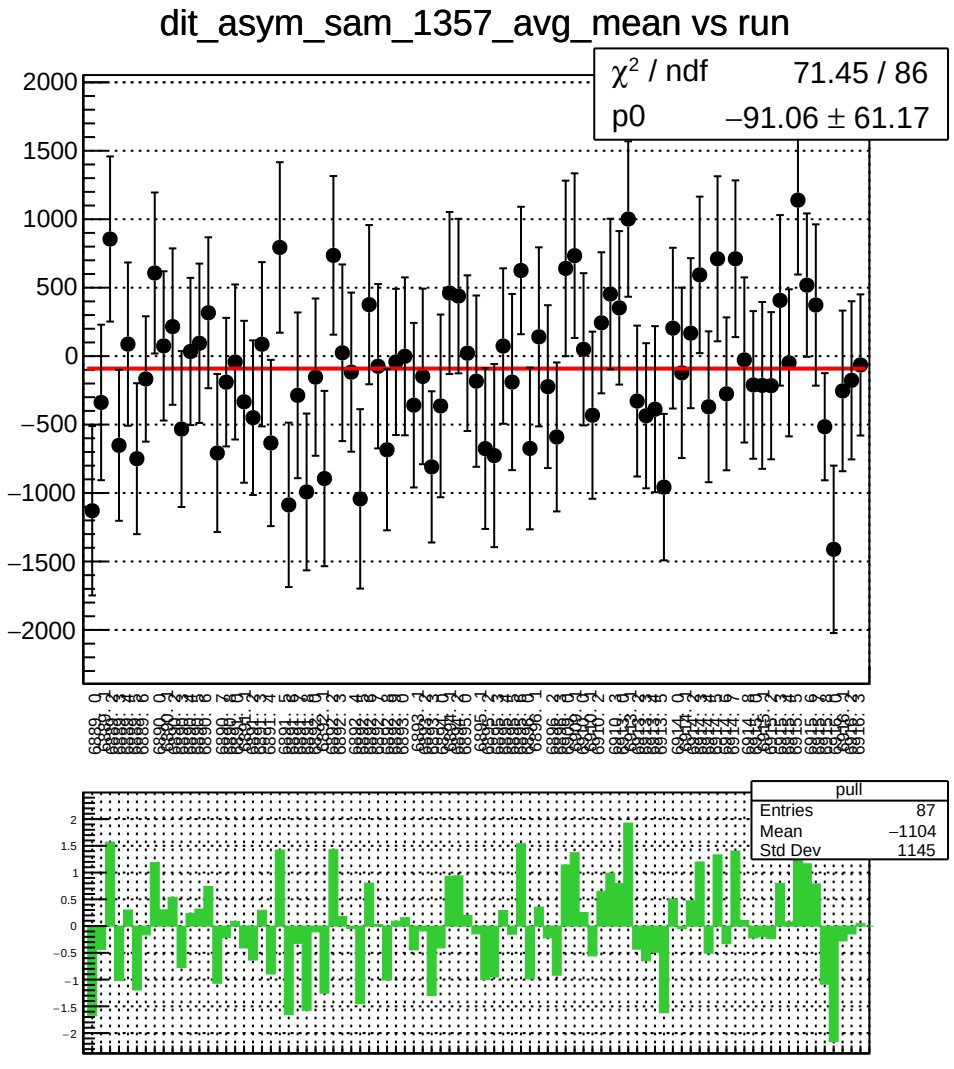

pull1D
Entries 87
Mean 0.01245
Std Dev 0.9561

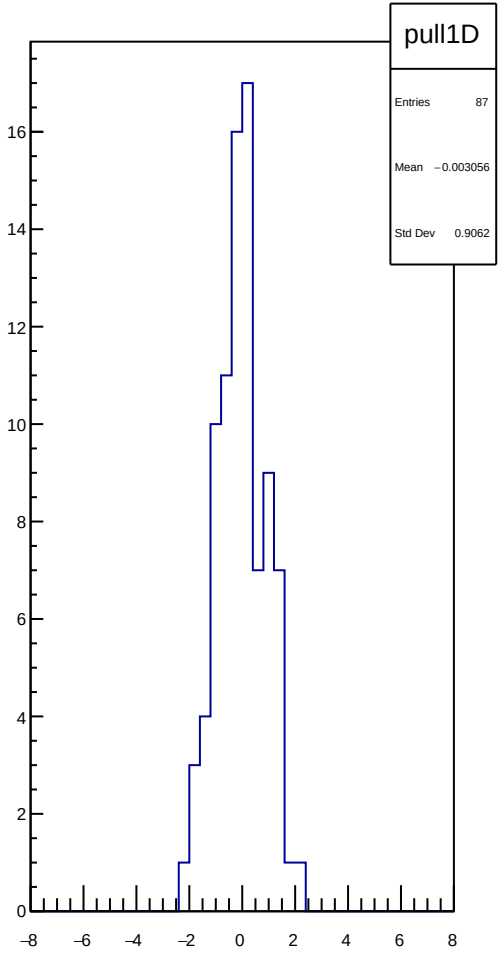

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 5008 / 86
p0 185.2 ± 0.144
210
200
190
180
170
160
150

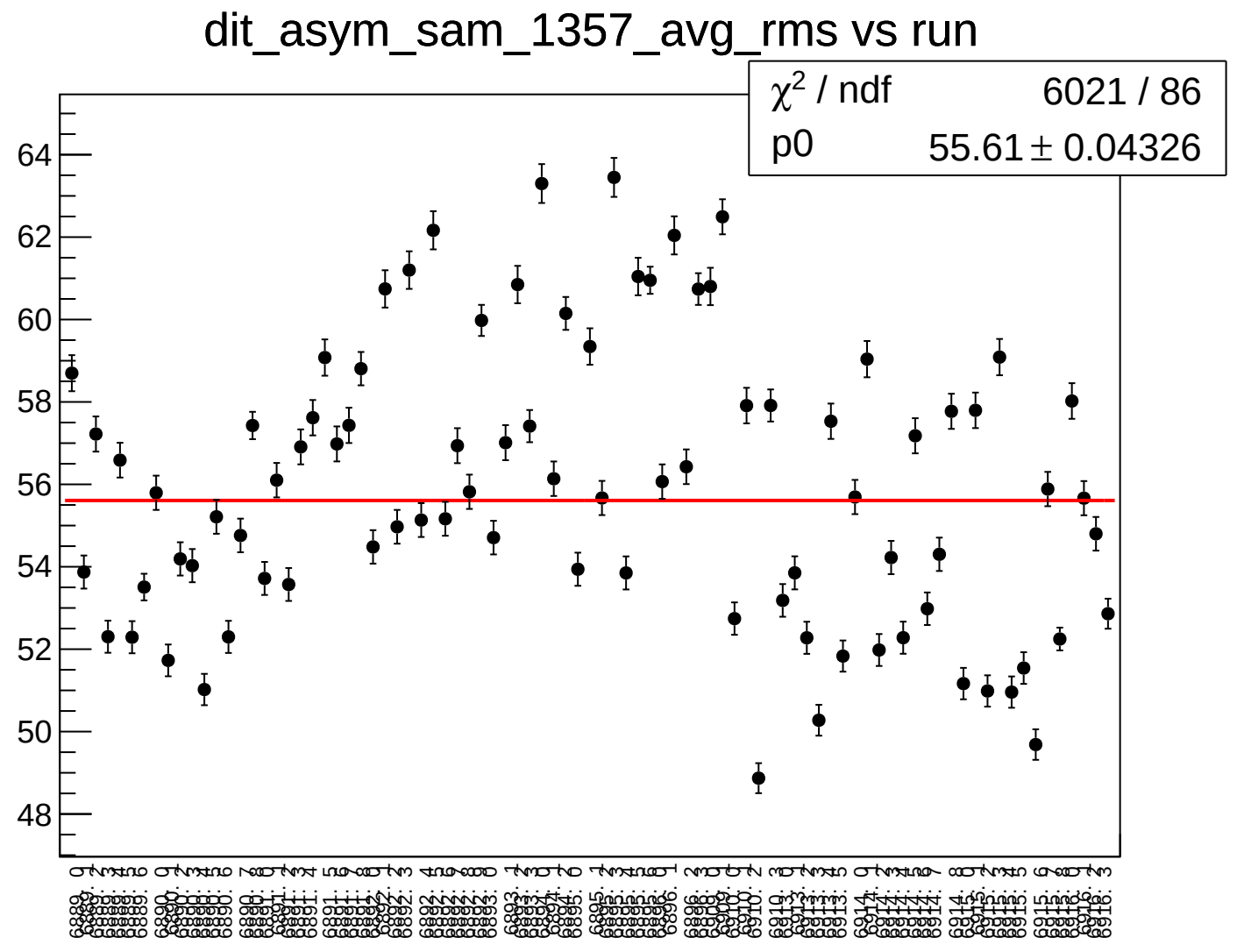

asym_sam_37_26_dd_mean vs run
χ² / ndf 80 / 86
p0 227.4 ± 184.9
pull
Entries 87
Mean −297.7
Std Dev 317.6

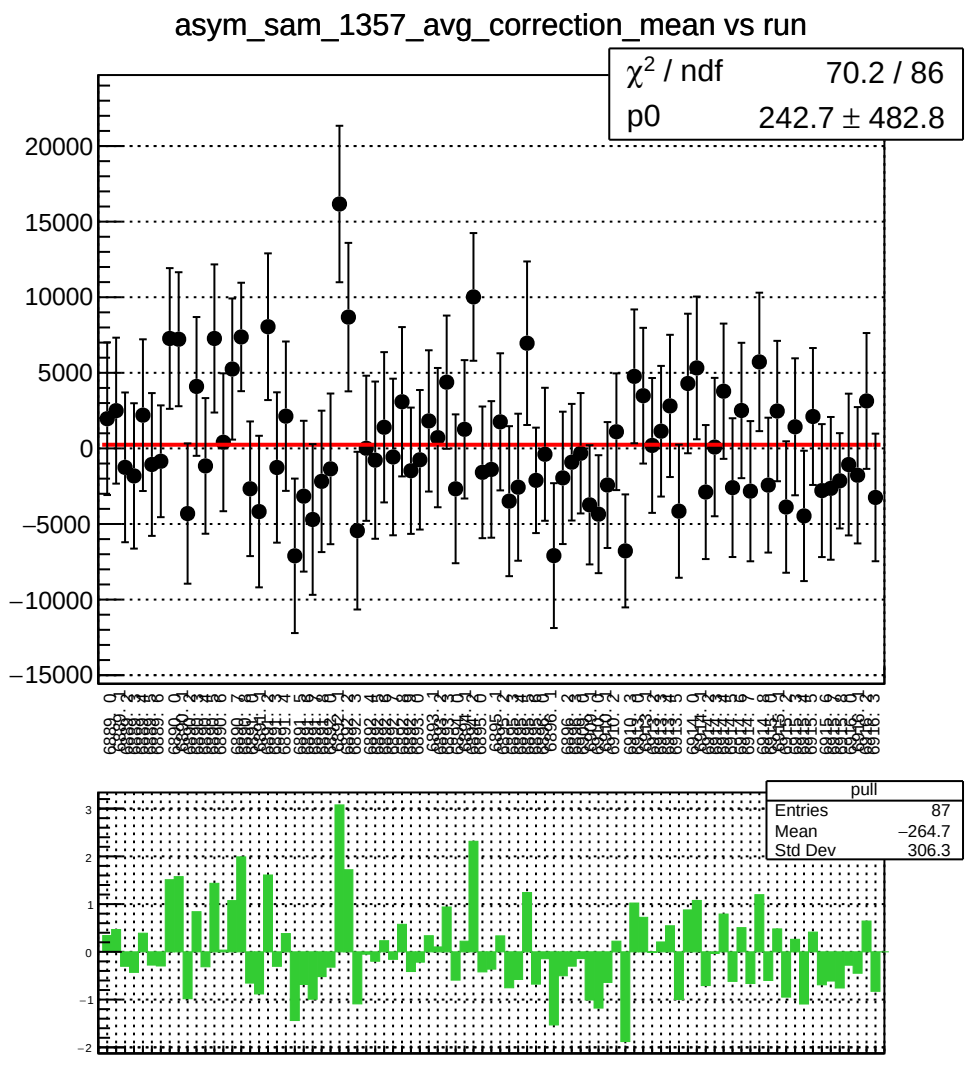

pull1D
Entries 87
Mean −0.007079
Std Dev 0.9589

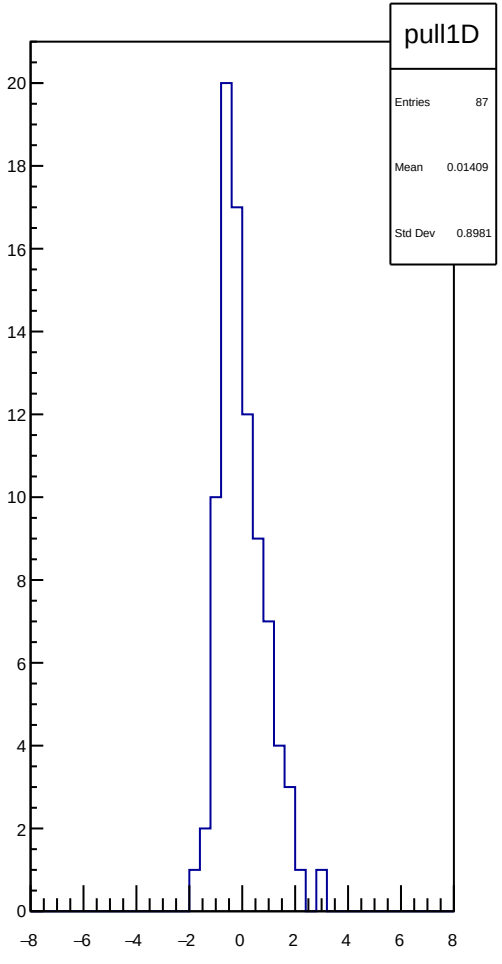

asym_sam_37_26_dd_rms vs run
χ² / ndf 5381 / 86
p0 168.1 ± 0.1308
190
180
170
160
150
140

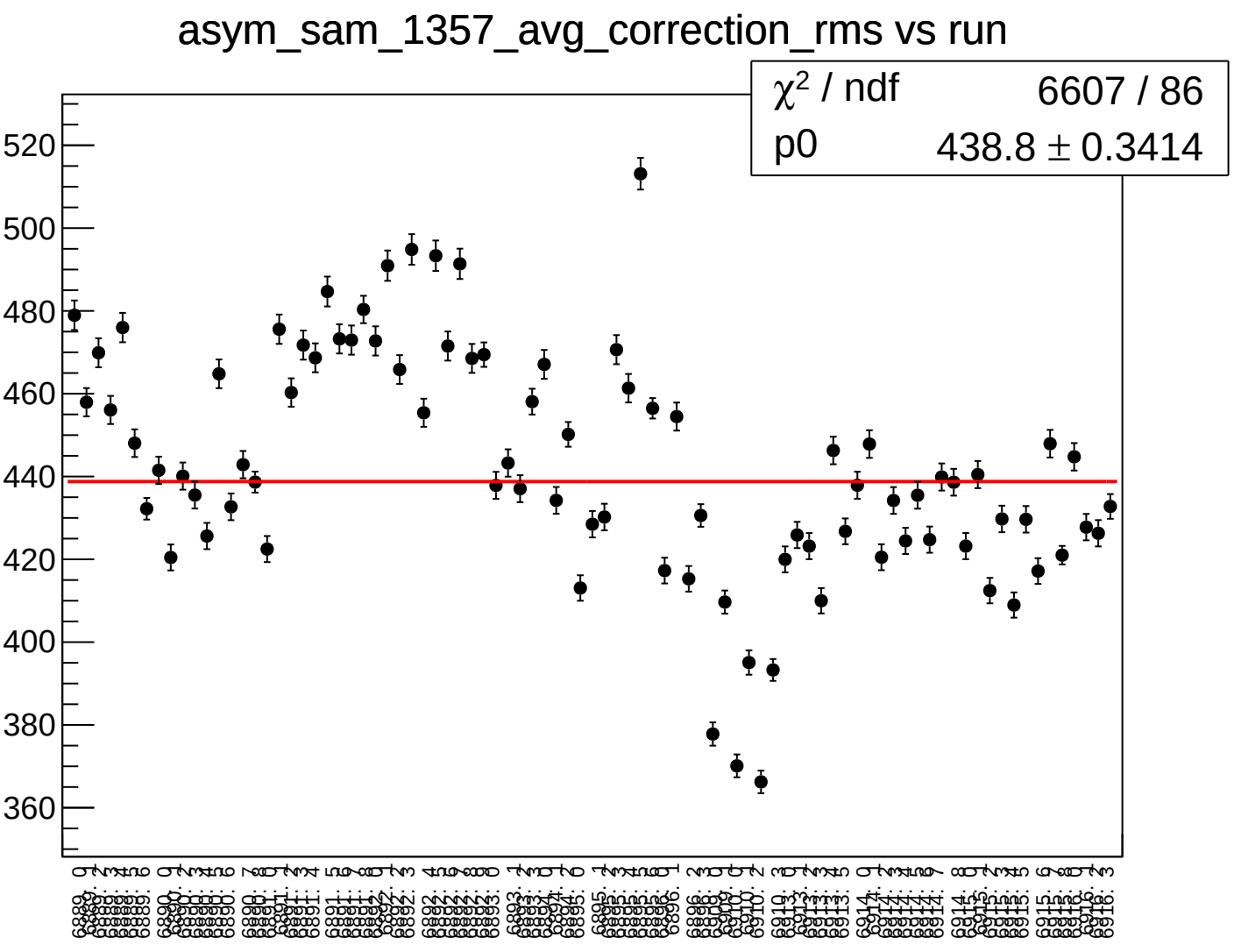

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 71.45 / 86
p0 −91.06 ± 61.17
pull
Entries 87
Mean −1104
Std Dev 1145

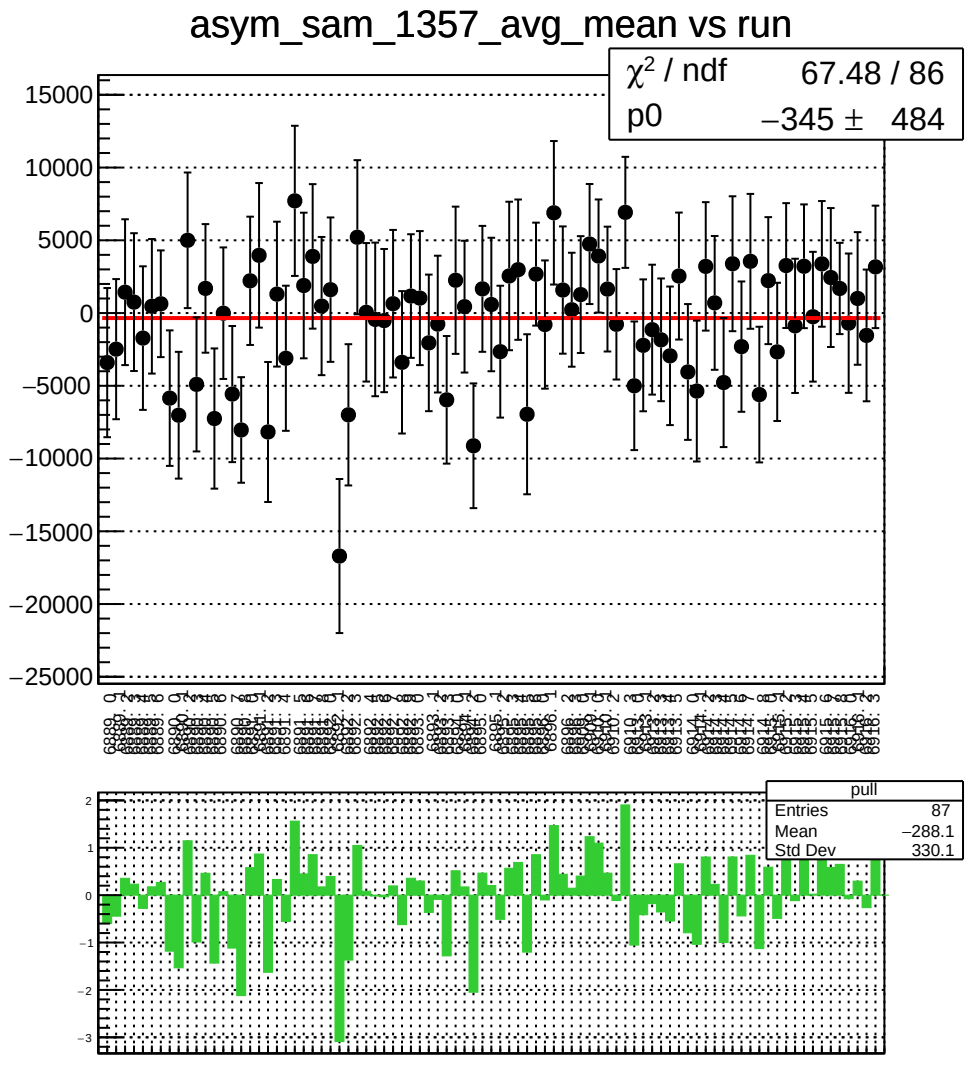

pull1D
Entries 87
Mean −0.003056
Std Dev 0.9062

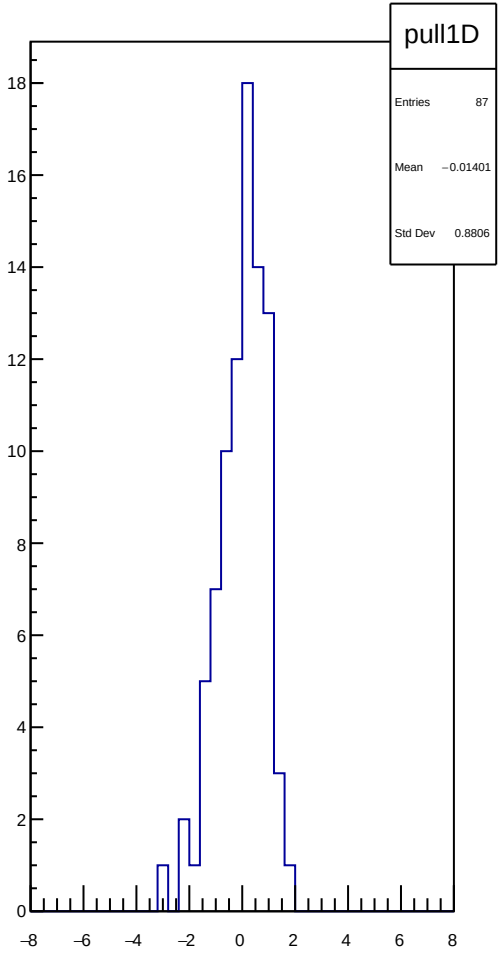

dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 6021 / 86
p0 55.61 ± 0.04326
64
62
60
58
56
54
52
50
48

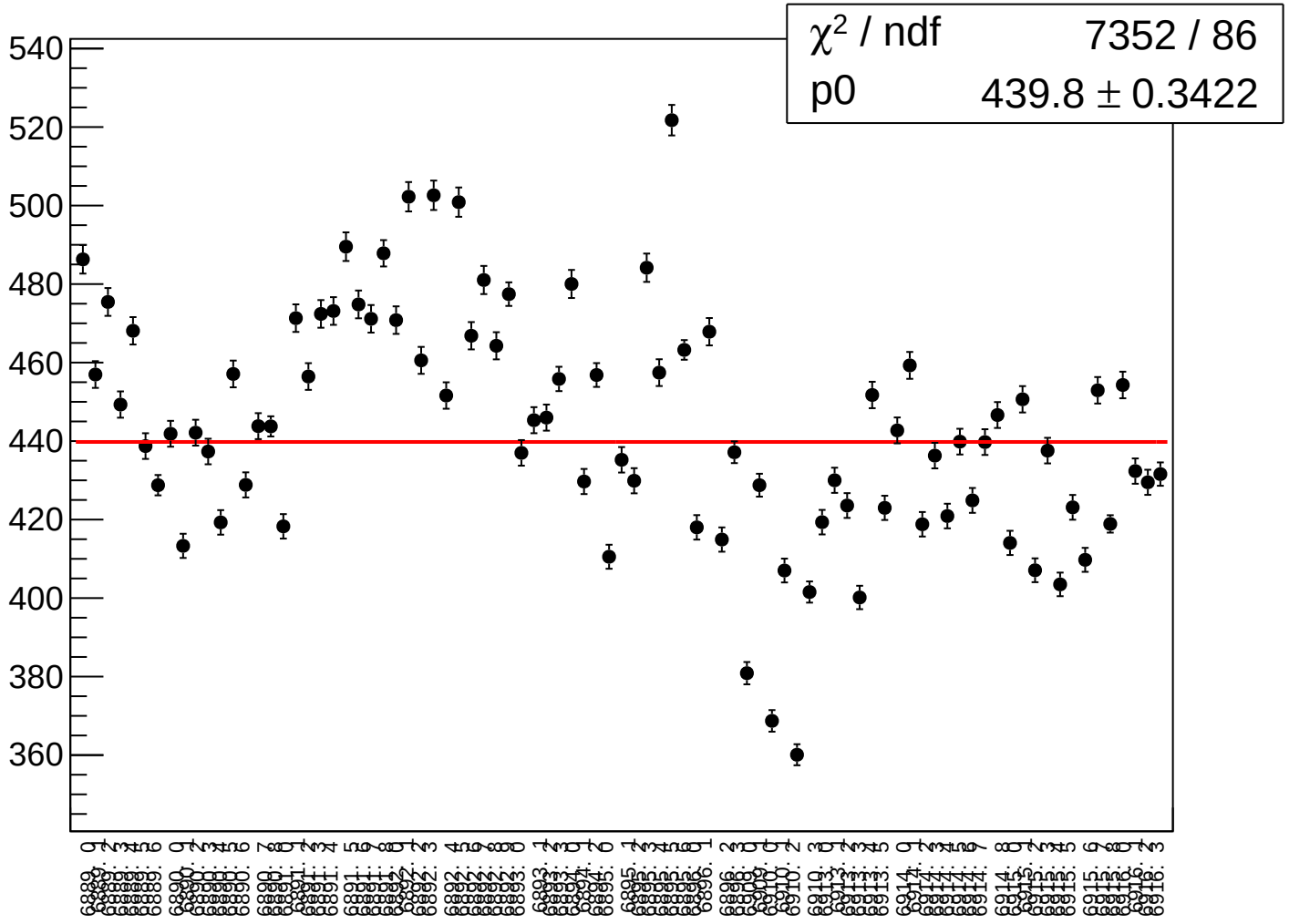

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 70.2 / 86
p0 242.7 ± 482.8
pull
Entries 87
Mean −264.7
Std Dev 306.3

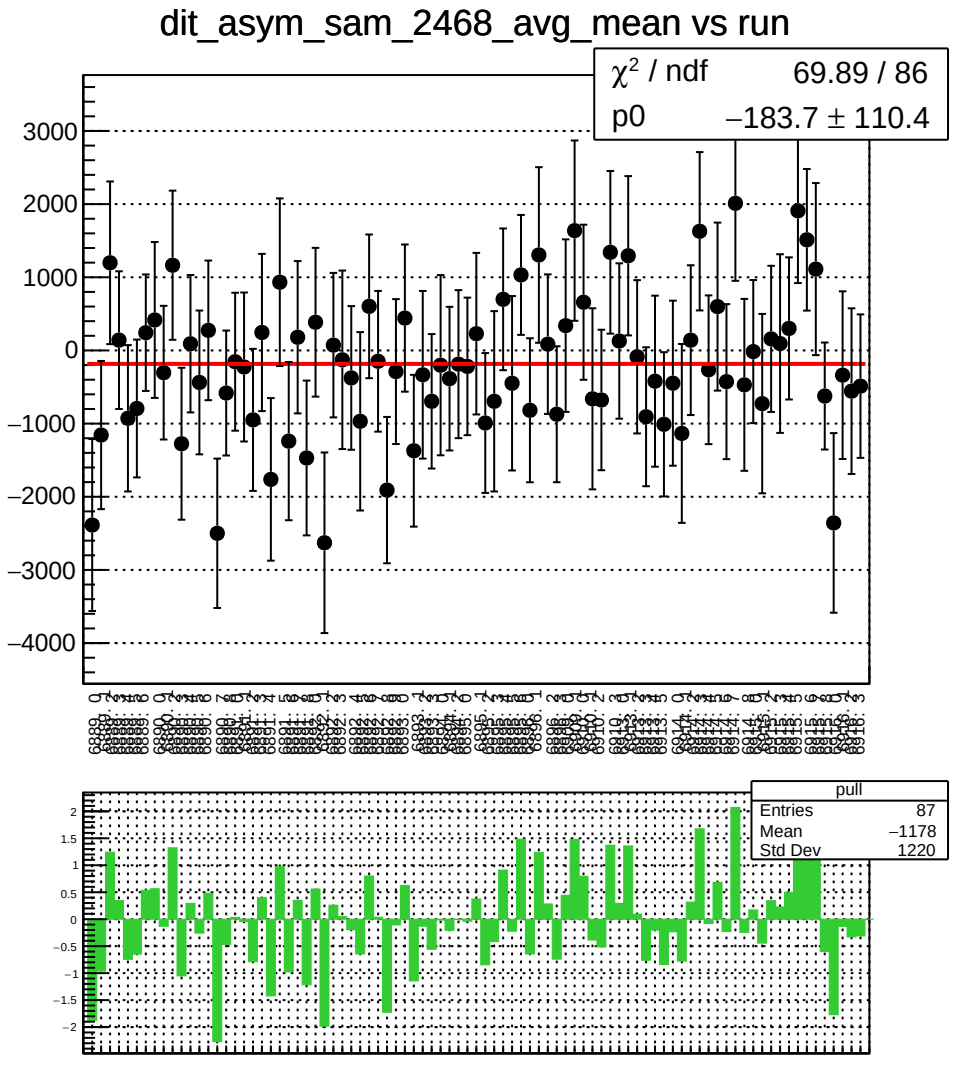

pull1D
Entries 87
Mean 0.01409
Std Dev 0.8981

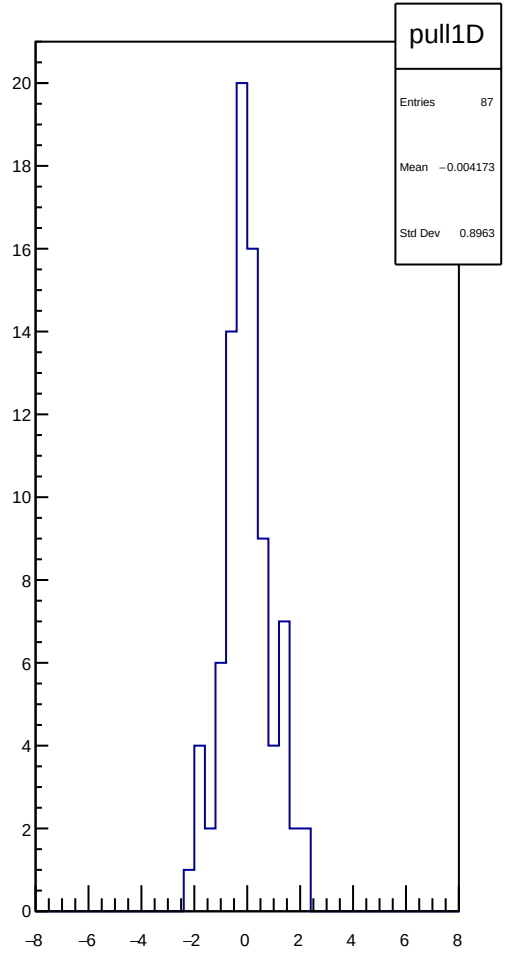

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 6607 / 86
p0 438.8 ± 0.3414
520
500
480
460
440
420
400
380
360

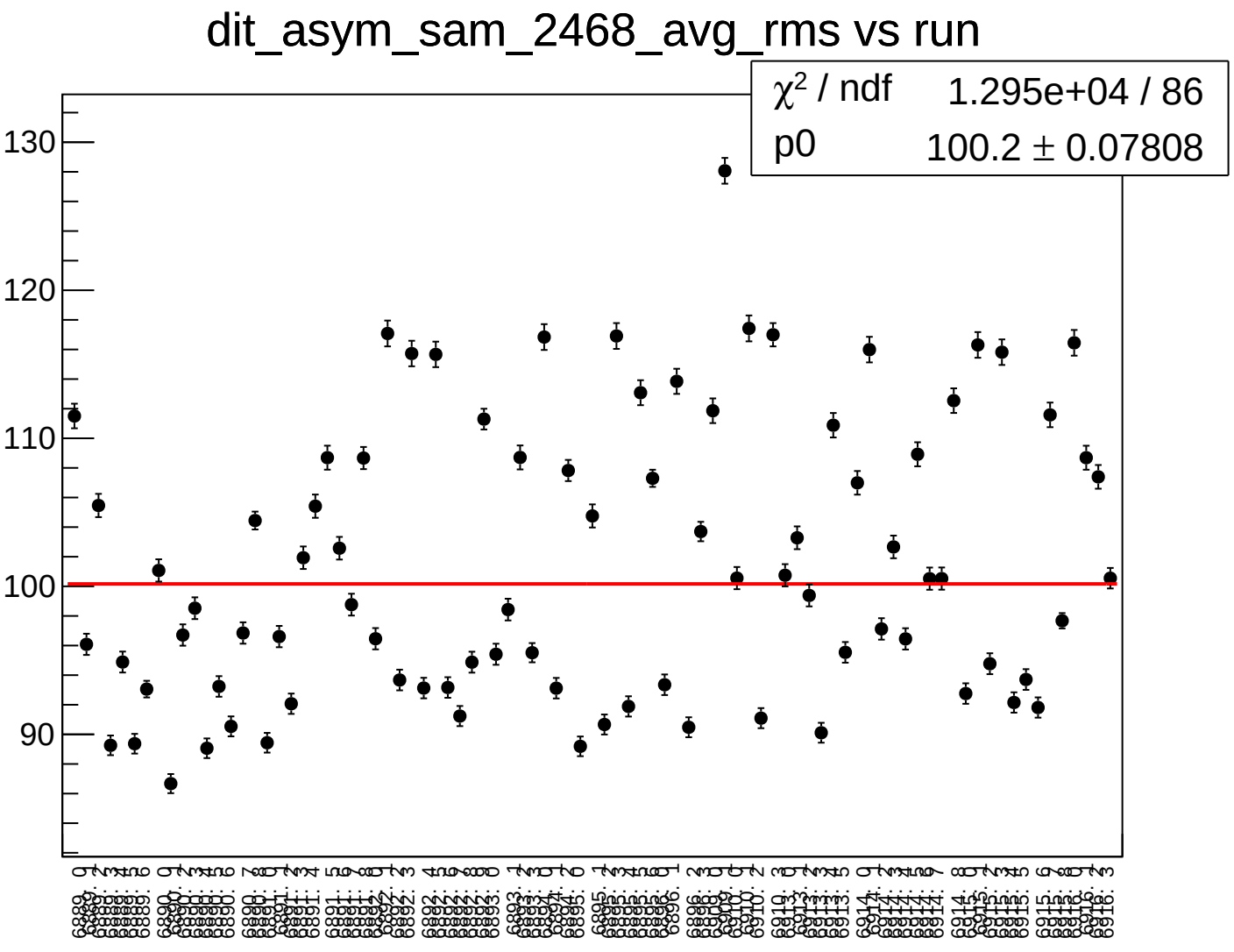

asym_sam_1357_avg_mean vs run
χ² / ndf 67.48 / 86
p0 −345 ± 484
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 87
Mean −288.1
Std Dev 330.1
2
1
0
−1
−2
−3

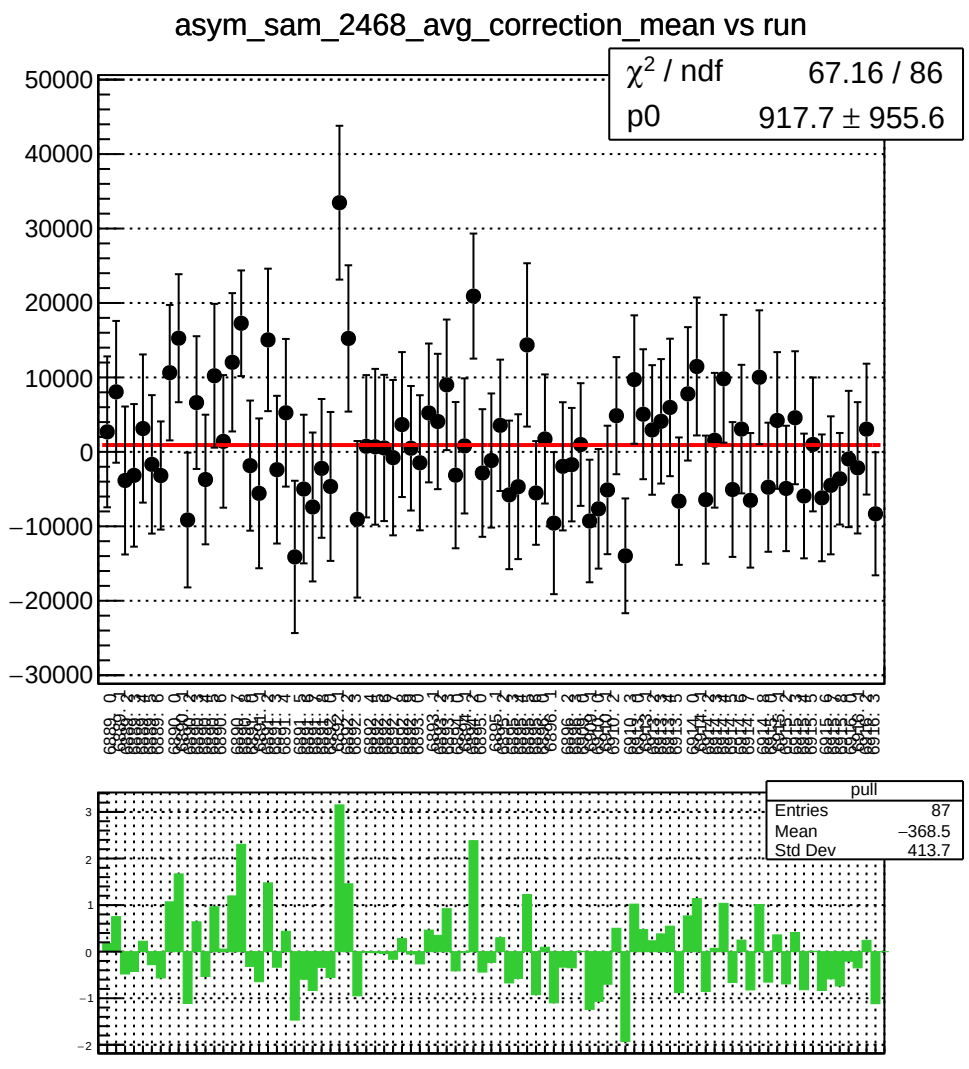

pull1D
Entries 87
Mean −0.01401
Std Dev 0.8806
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

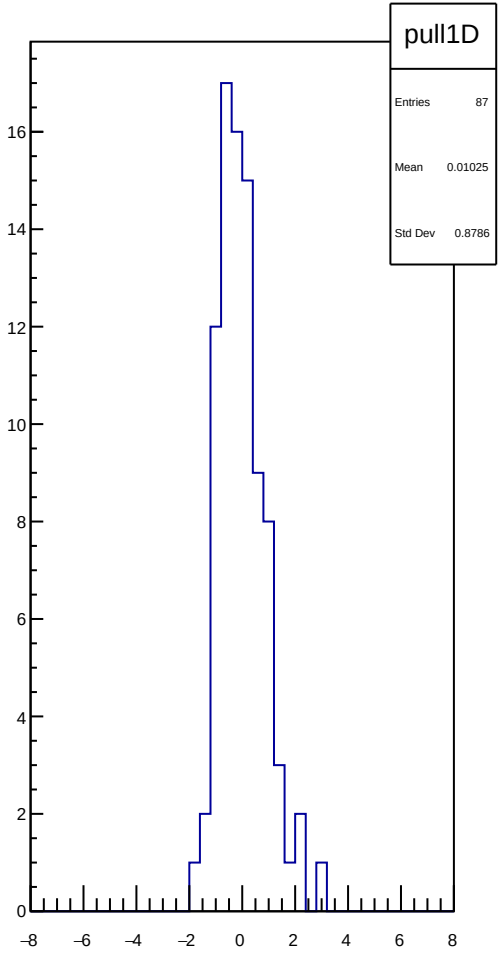

asym_sam_1357_avg_rms vs run
χ^2 / ndf 7352 / 86
p0 439.8 ± 0.3422
540
520
500
480
460
440
420
400
380
360

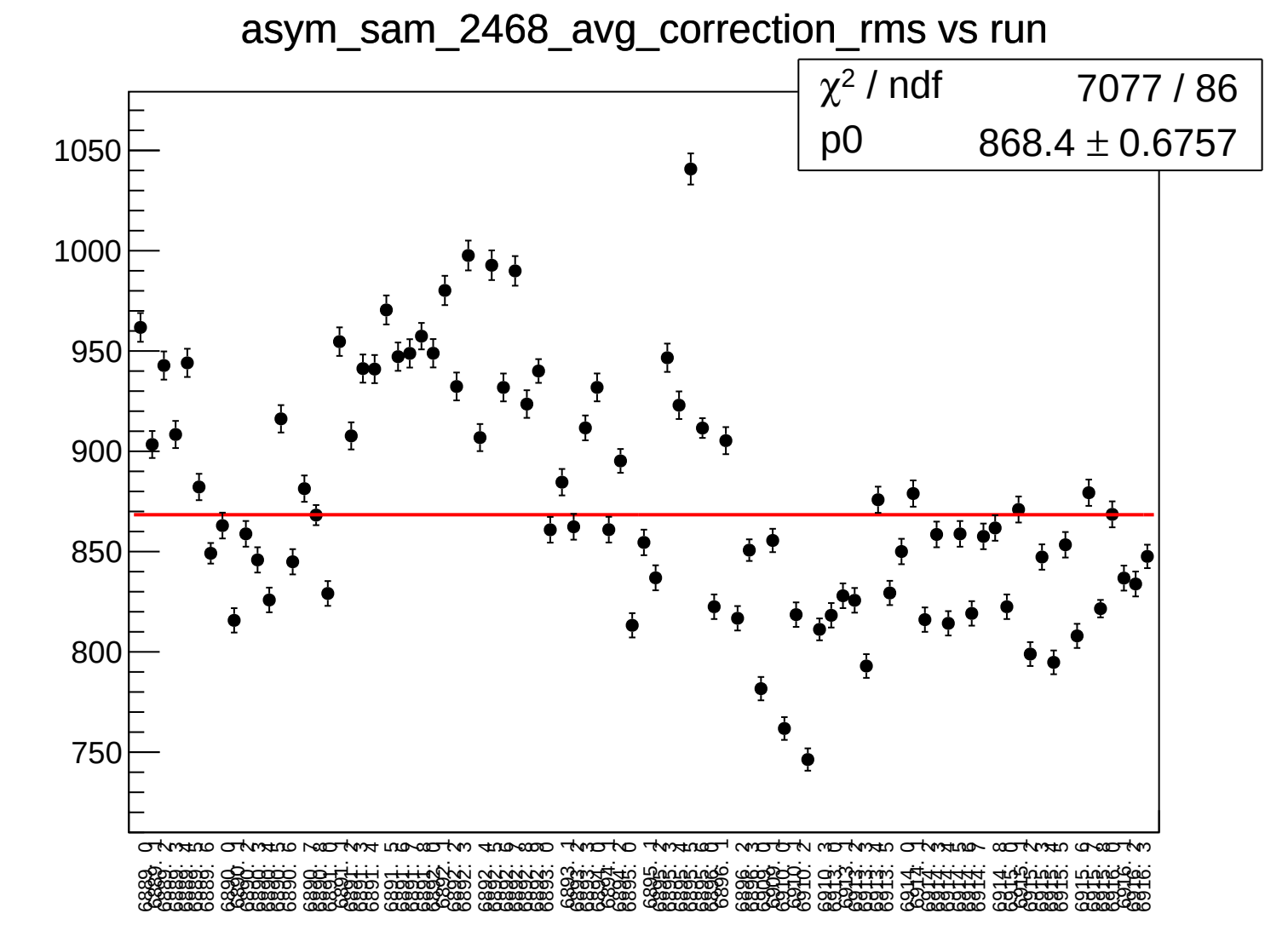

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 69.89 / 86
p0 −183.7 ± 110.4
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 87
Mean −1178
Std Dev 1220
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

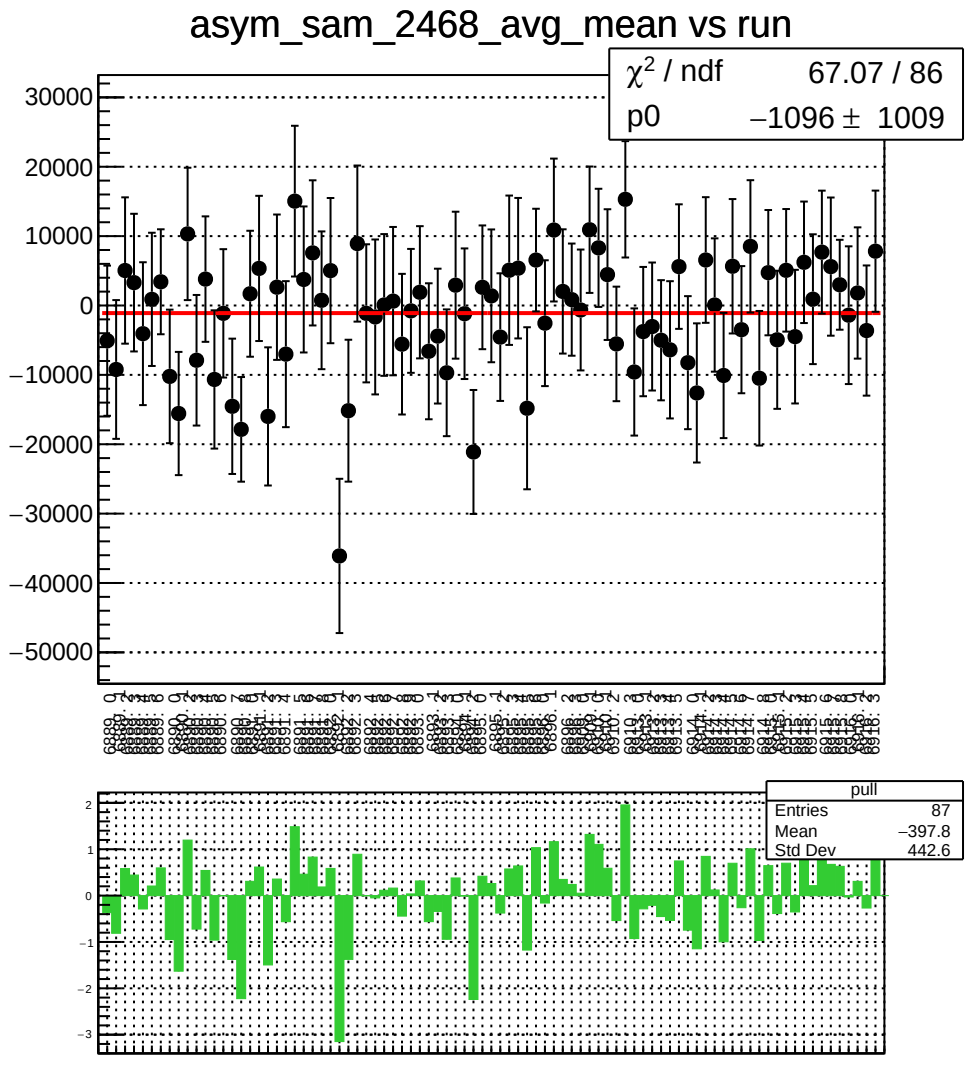

pull1D
Entries 87
Mean −0.004173
Std Dev 0.8963
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

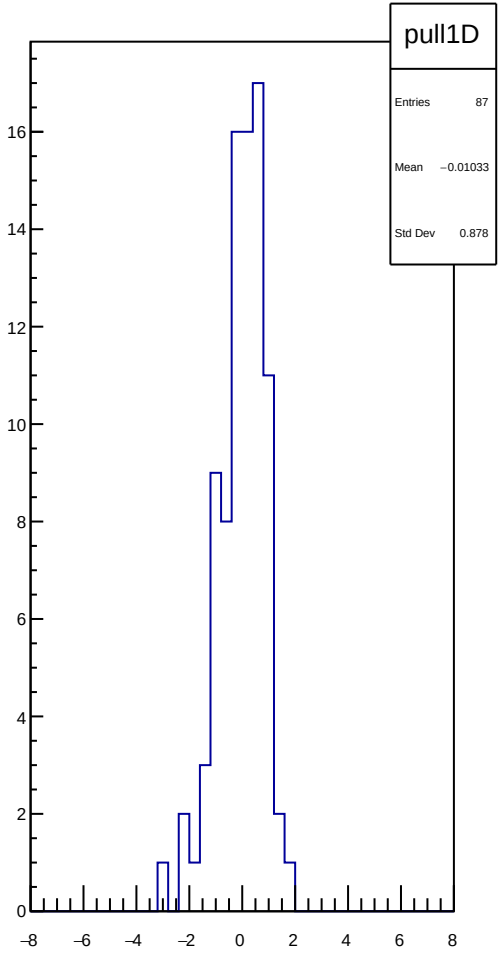

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.295e+04 / 86
p0 100.2 ± 0.07808
130
120
110
100
90

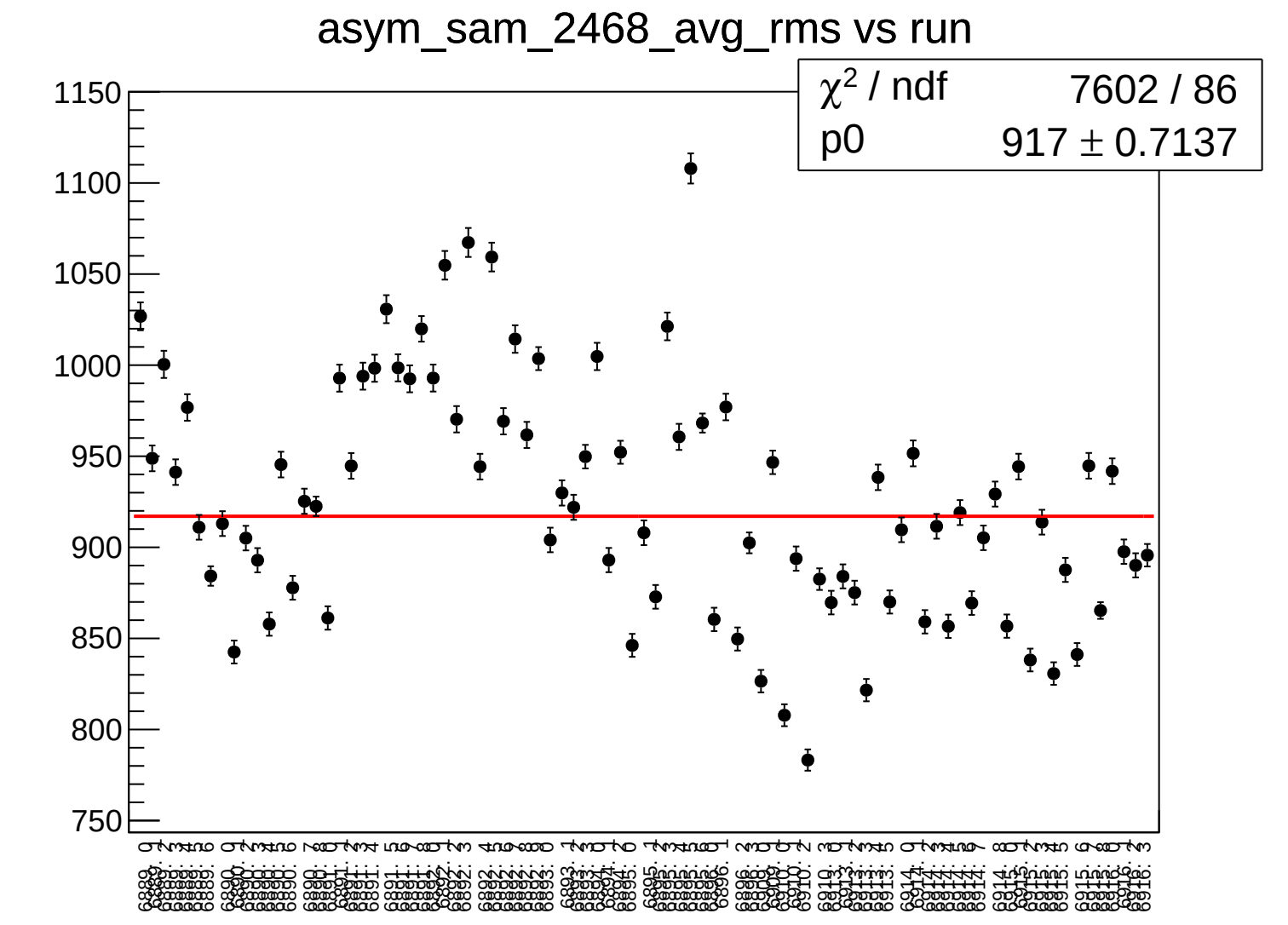

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 67.16 / 86
p0 917.7 ± 955.6
pull
Entries 87
Mean −368.5
Std Dev 413.7

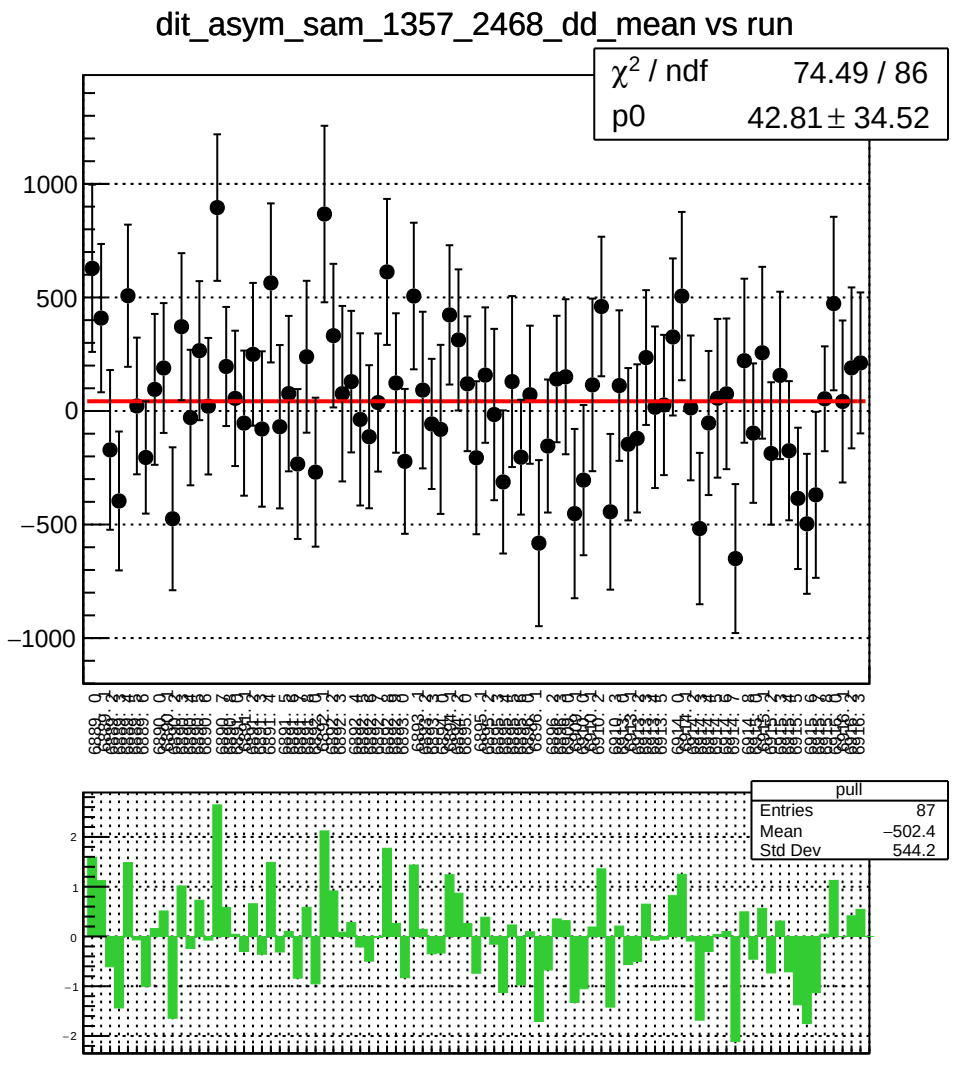

pull1D
Entries 87
Mean 0.01025
Std Dev 0.8786

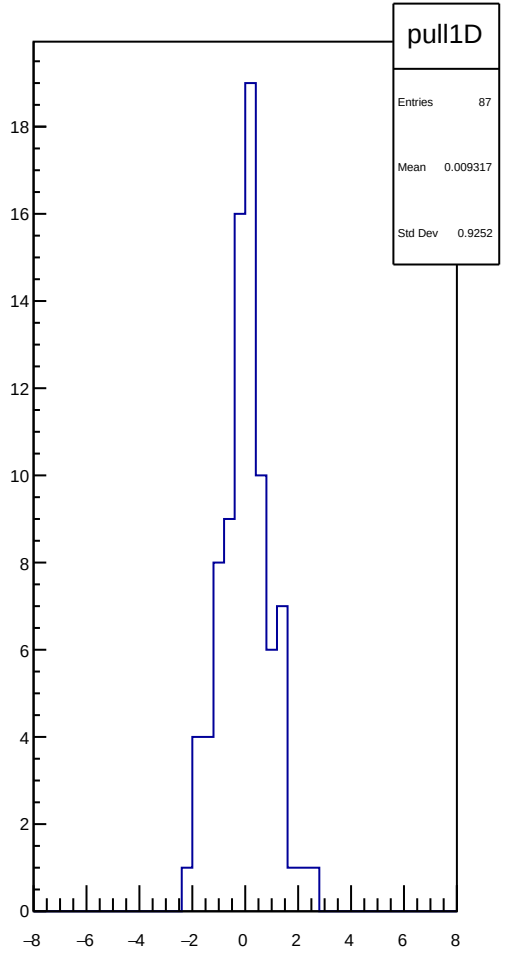

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 7077 / 86
p0 868.4 ± 0.6757
1050
1000
950
900
850
800
750

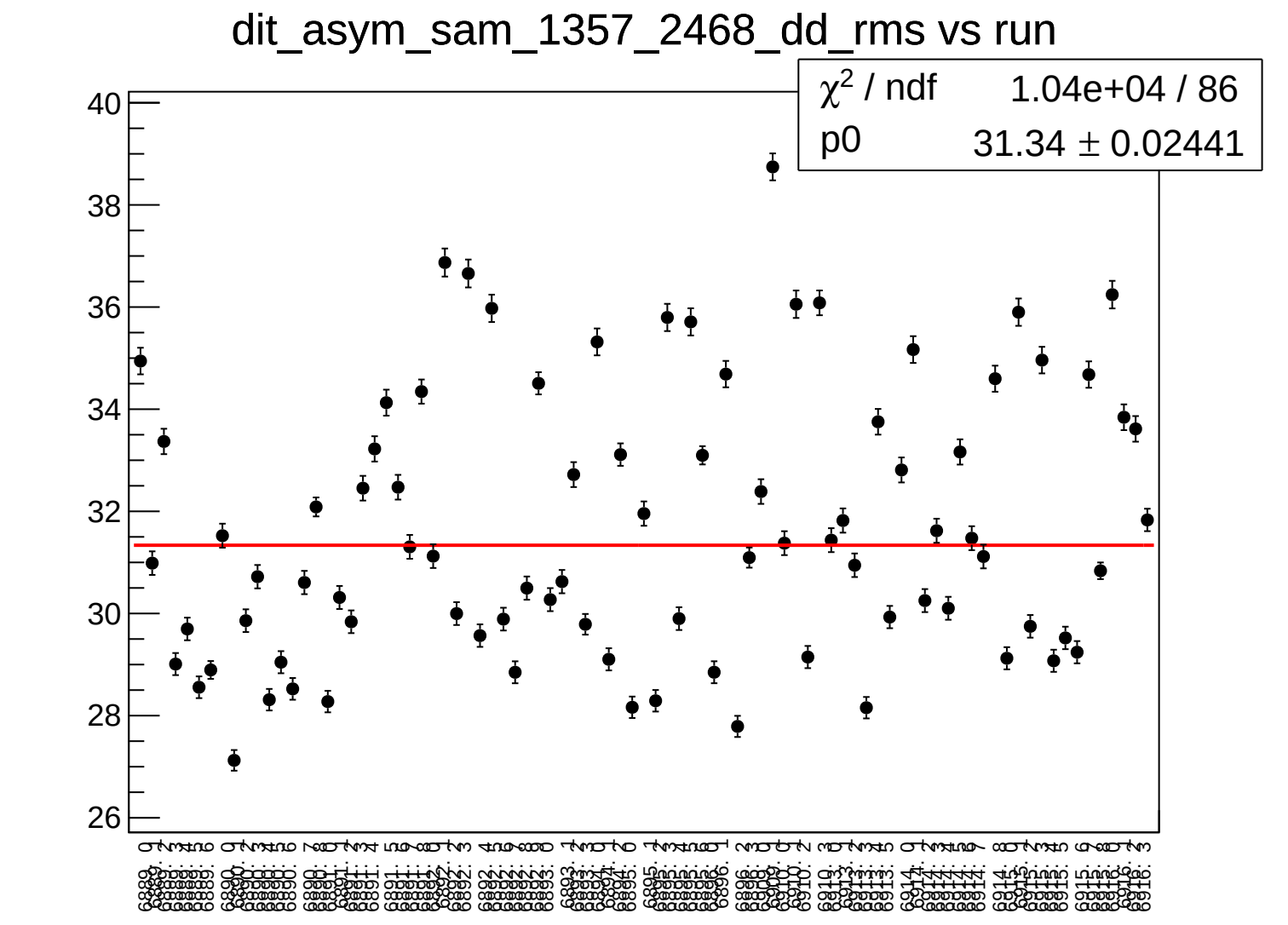

asym_sam_2468_avg_mean vs run
χ² / ndf 67.07 / 86
p0 −1096 ± 1009
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 87
Mean −397.8
Std Dev 442.6
2
1
0
−1
−2
−3

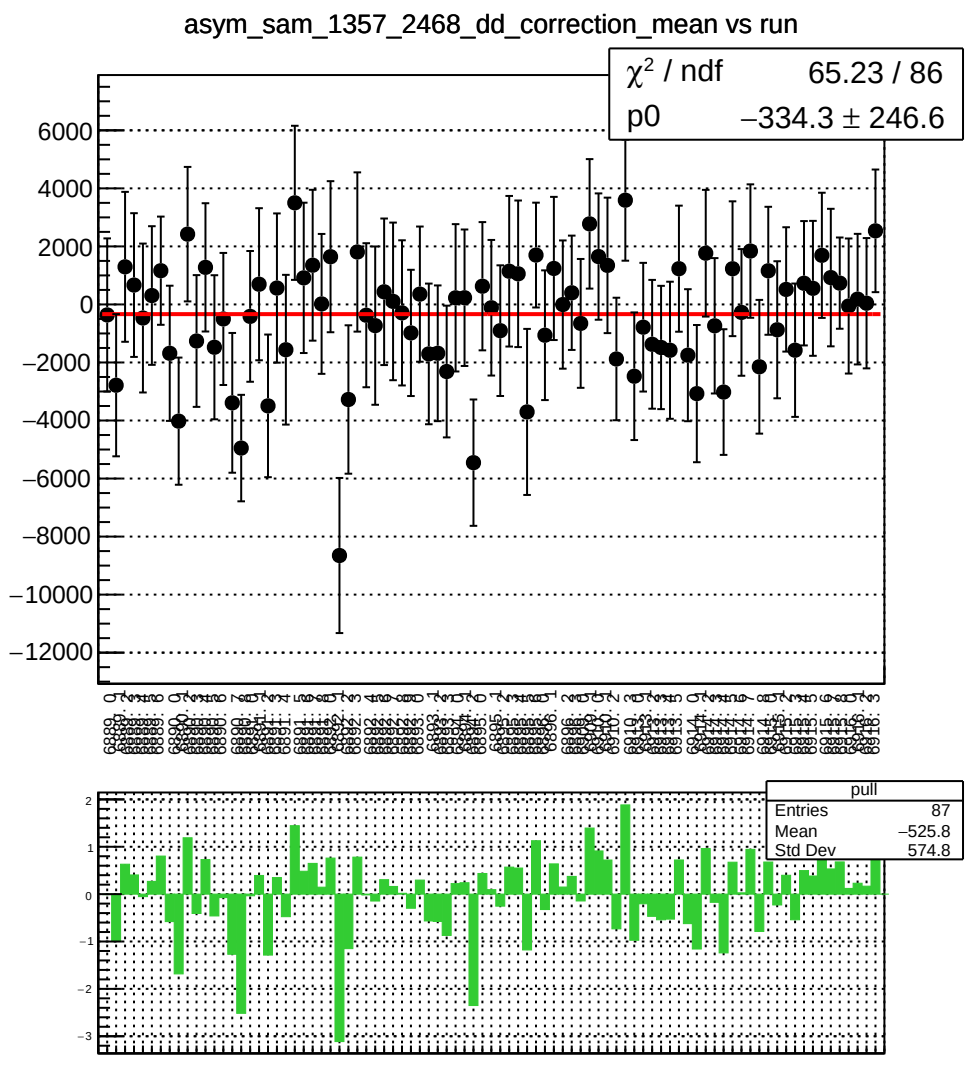

pull1D
Entries 87
Mean −0.01033
Std Dev 0.878
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

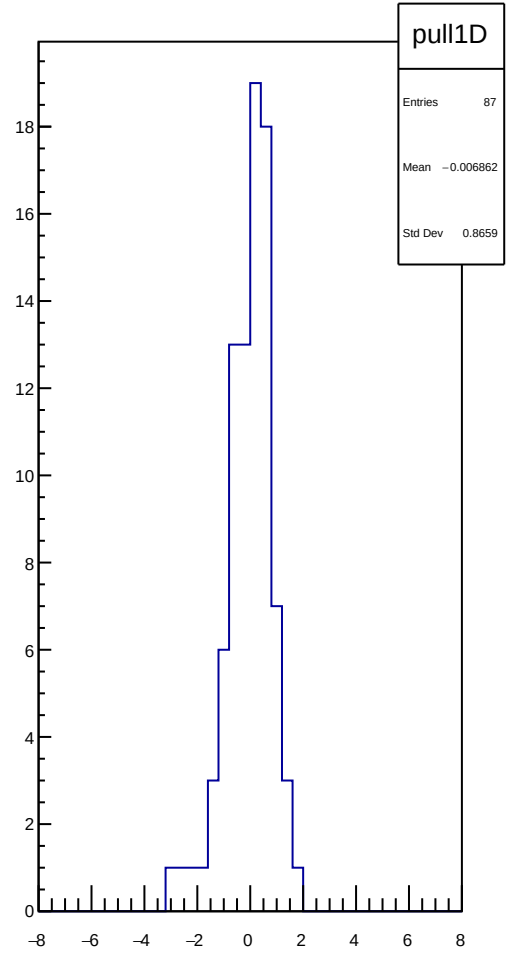

asym_sam_2468_avg_rms vs run
χ² / ndf 7602 / 86
p0 917 ± 0.7137
1150
1100
1050
1000
950
900
850
800
750

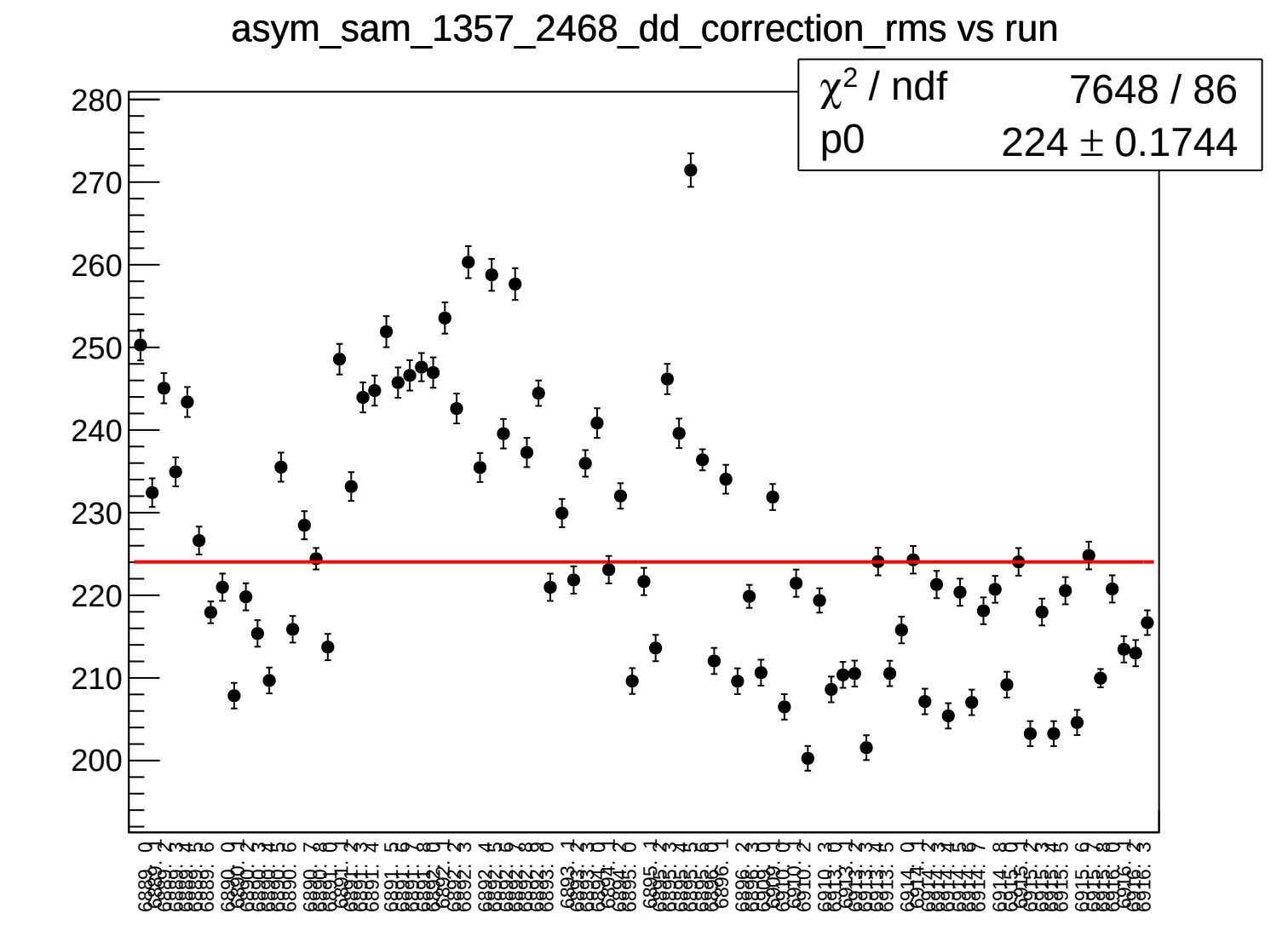

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 74.49 / 86
p0 42.81 ± 34.52
1000
500
0
−500
−1000
pull
Entries 87
Mean −502.4
Std Dev 544.2
2
1
0
−1
−2

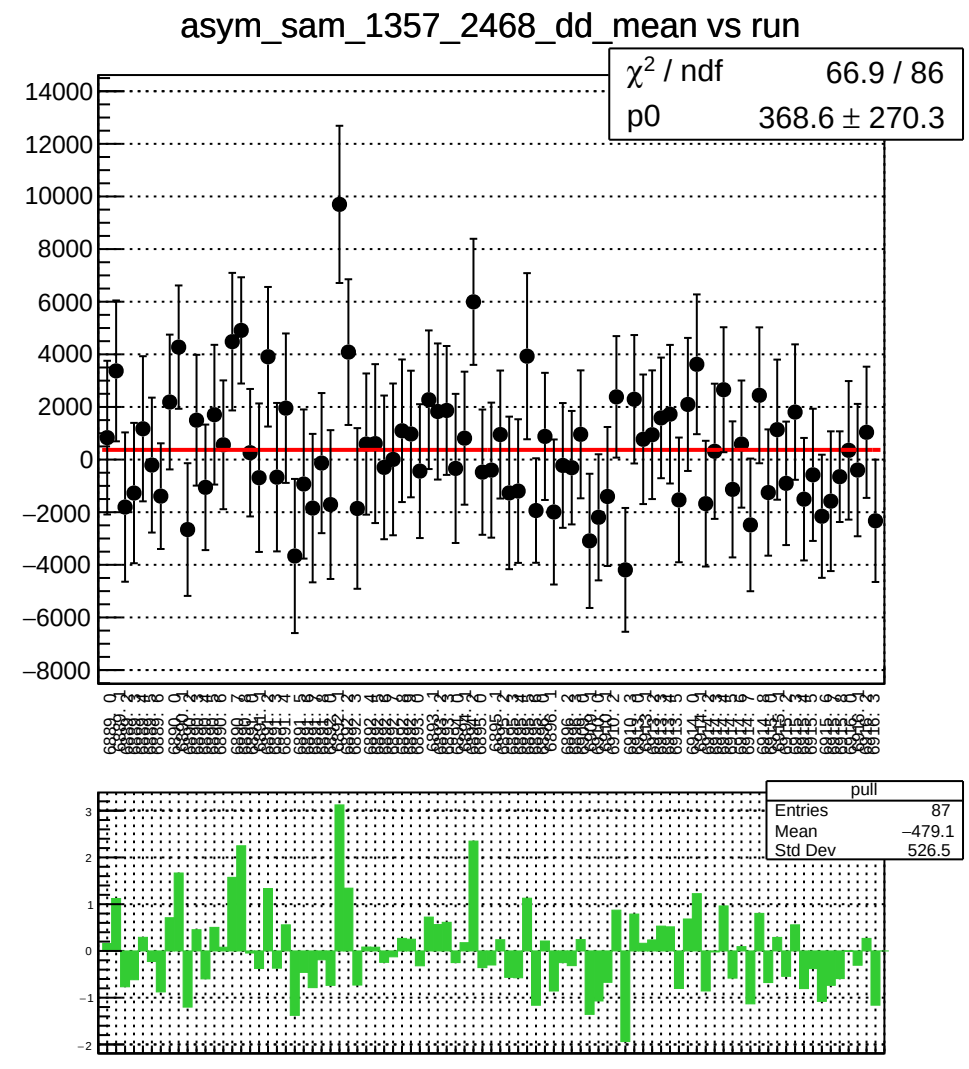

pull1D
Entries 87
Mean 0.009317
Std Dev 0.9252
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

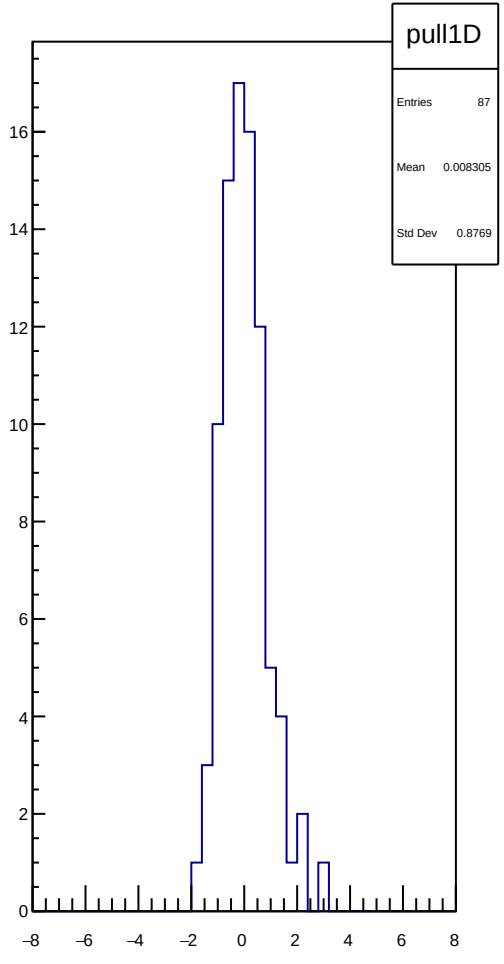

dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 1.04e+04 / 86
p0 31.34 ± 0.02441
40
38
36
34
32
30
28
26

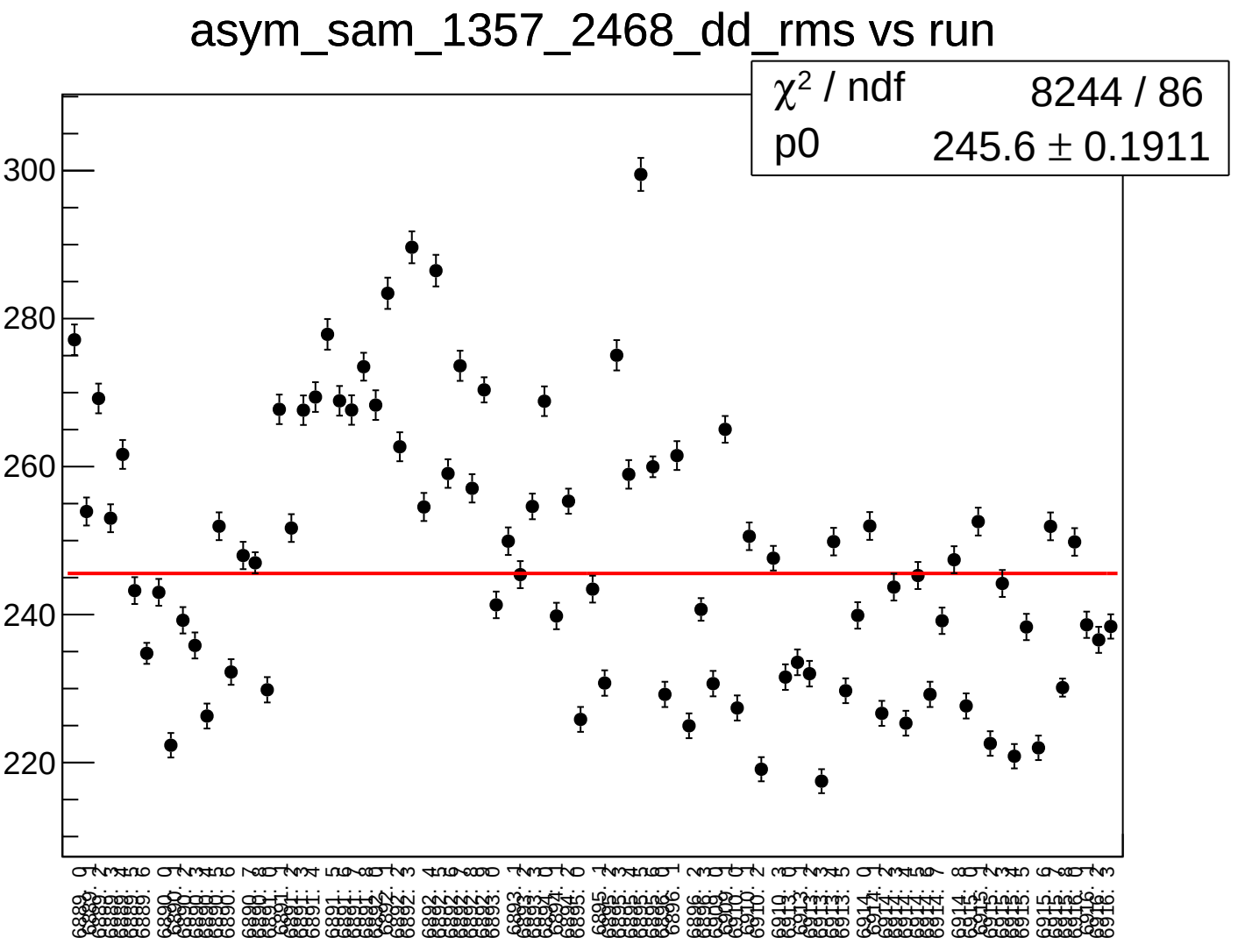

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 65.23 / 86
p0 −334.3 ± 246.6
pull
Entries 87
Mean −525.8
Std Dev 574.8

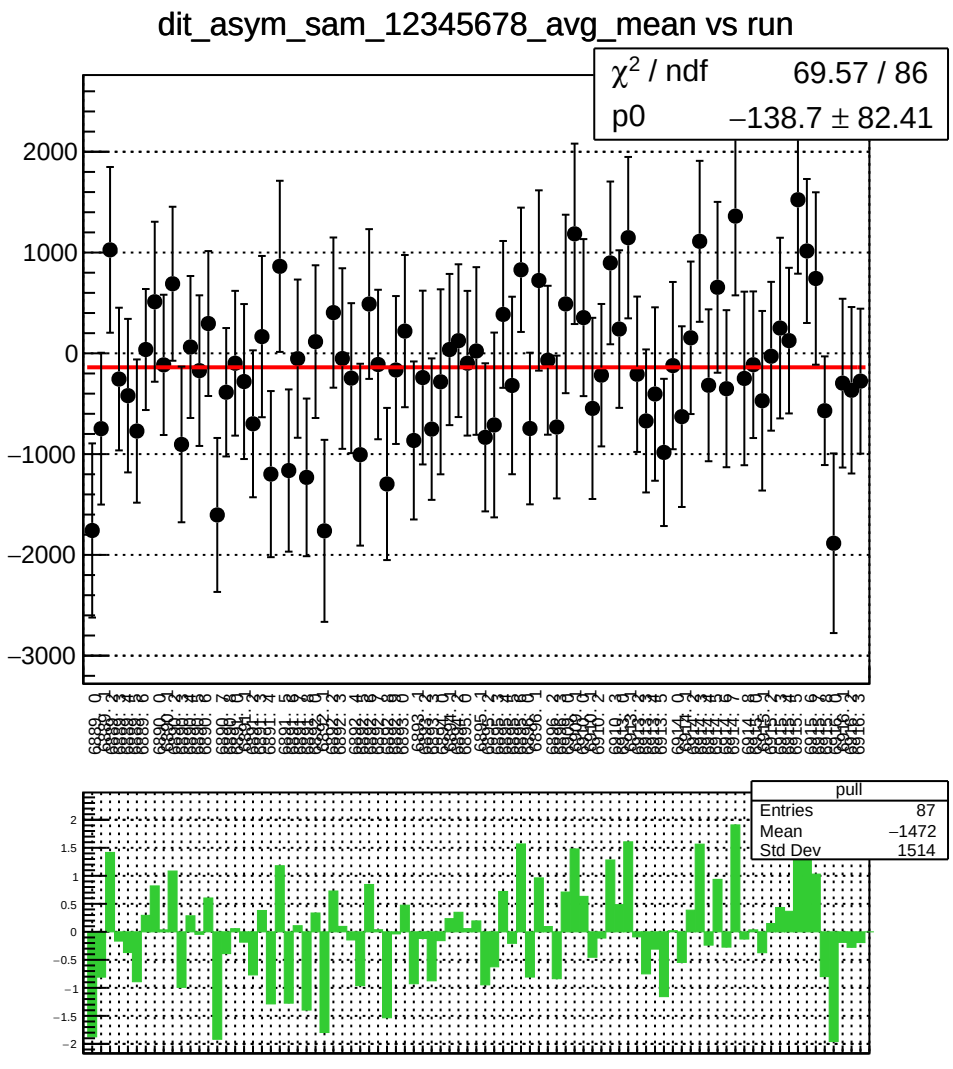

pull1D
Entries 87
Mean −0.006862
Std Dev 0.8659

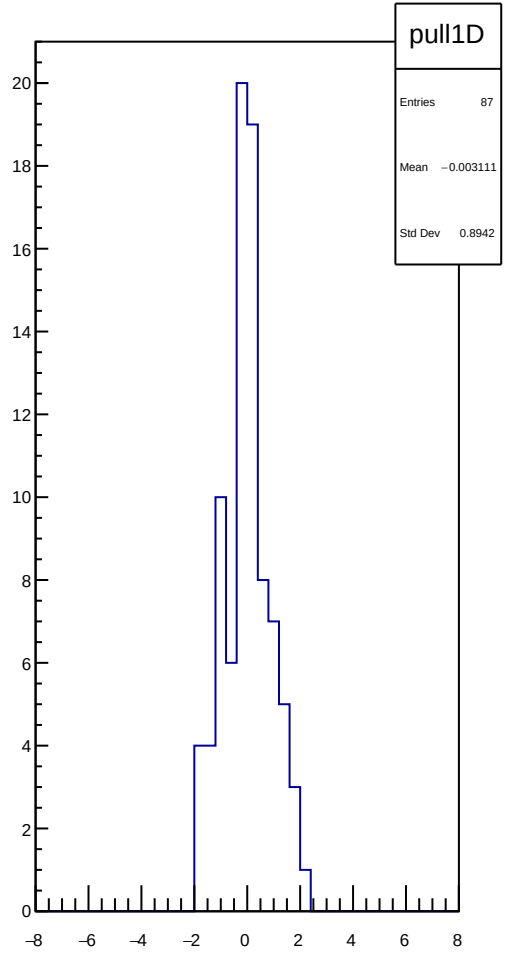

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 7648 / 86
p0 224 ± 0.1744
280
270
260
250
240
230
220
210
200

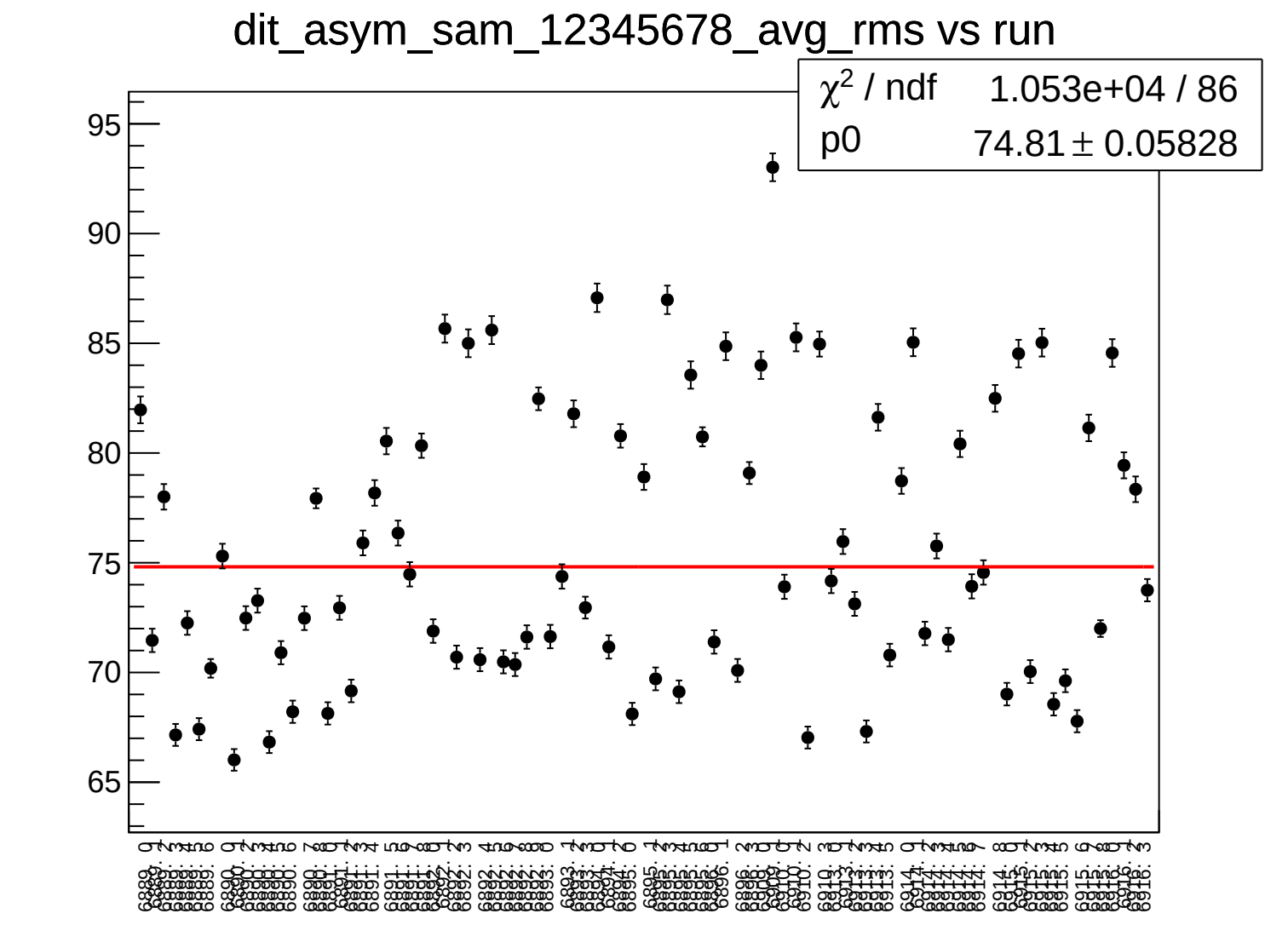

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 66.9 / 86
p0 368.6 ± 270.3
pull
Entries 87
Mean −479.1
Std Dev 526.5

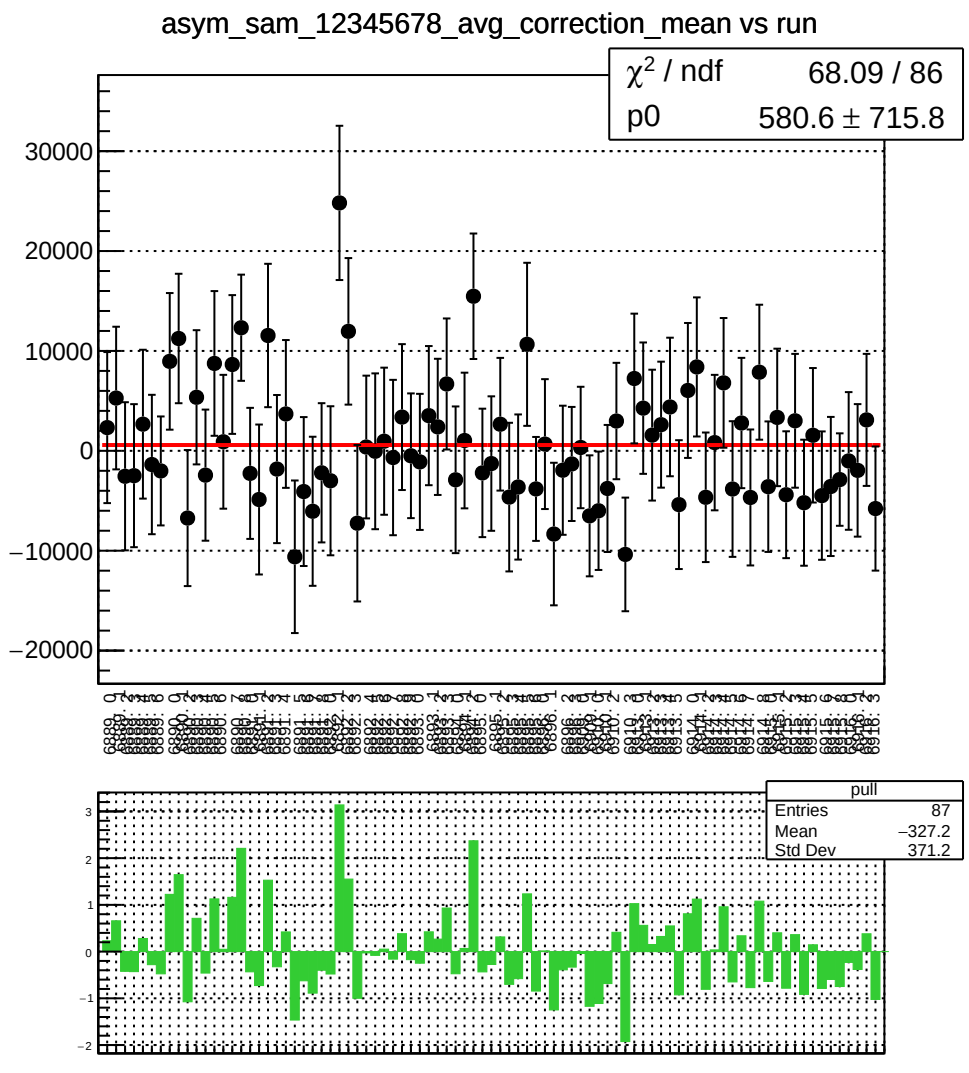

pull1D
Entries 87
Mean 0.008305
Std Dev 0.8769

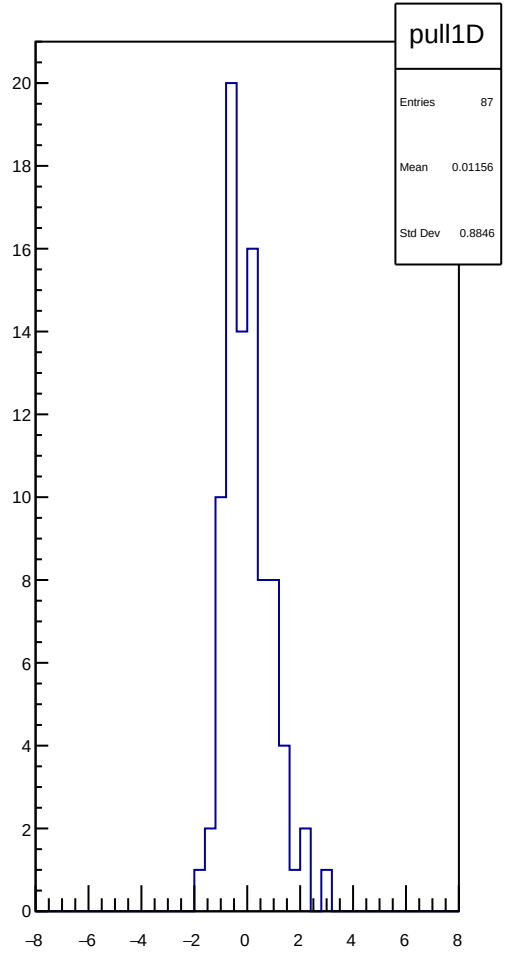

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 8244 / 86
p0 245.6 ± 0.1911
300
280
260
240
220

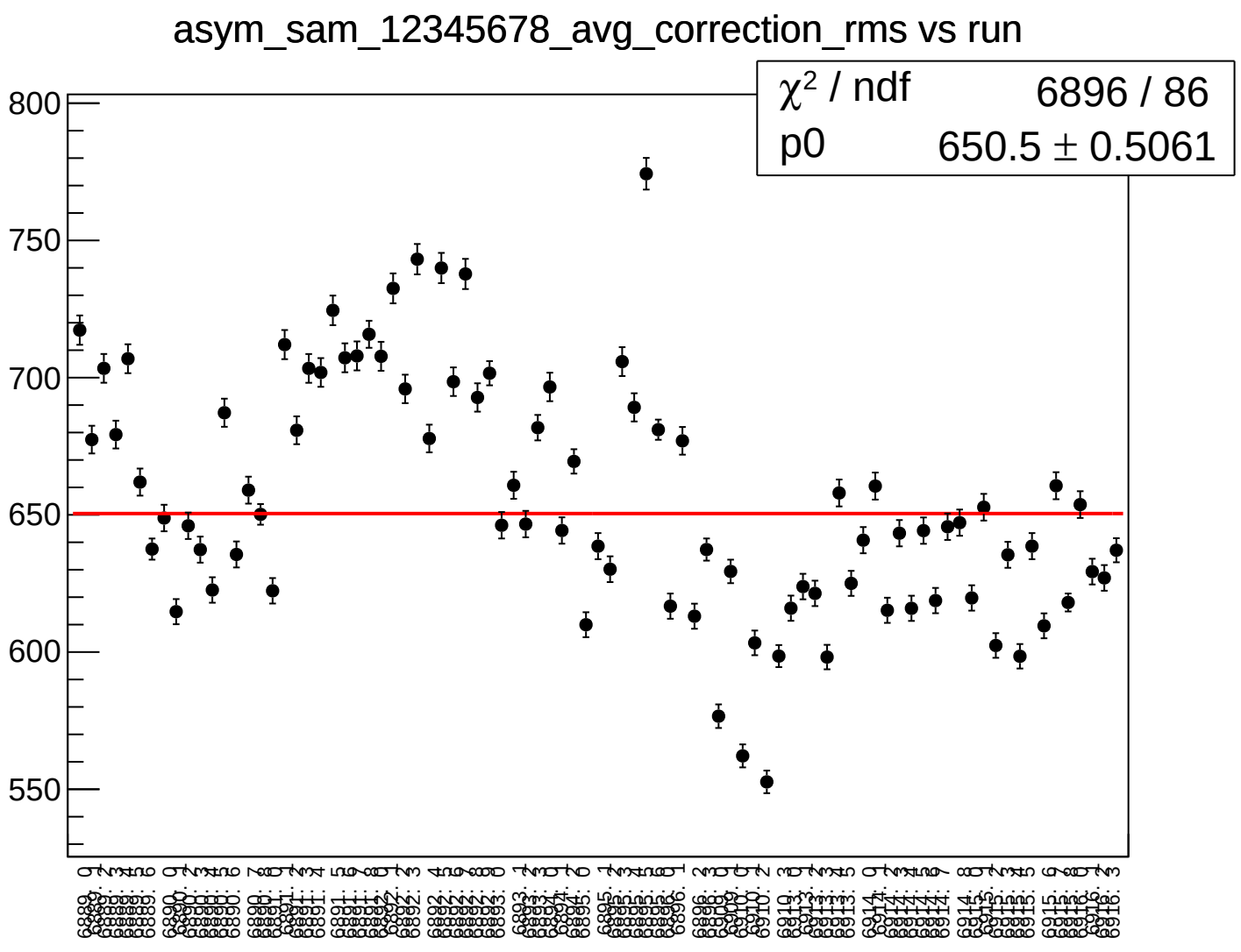

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 69.57 / 86
p0 −138.7 ± 82.41
2000
1000
0
−1000
−2000
−3000
pull
Entries 87
Mean −1472
Std Dev 1514
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

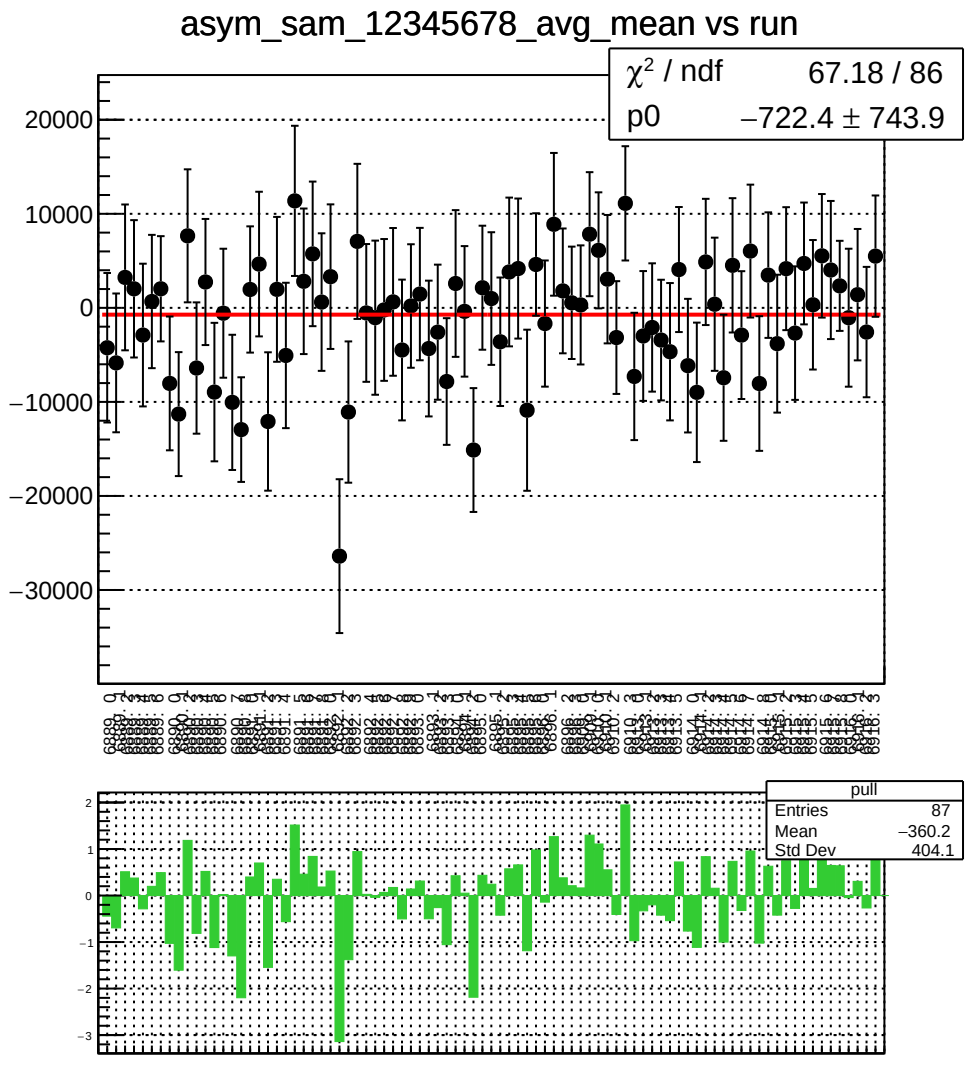

pull1D
Entries 87
Mean −0.003111
Std Dev 0.8942
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

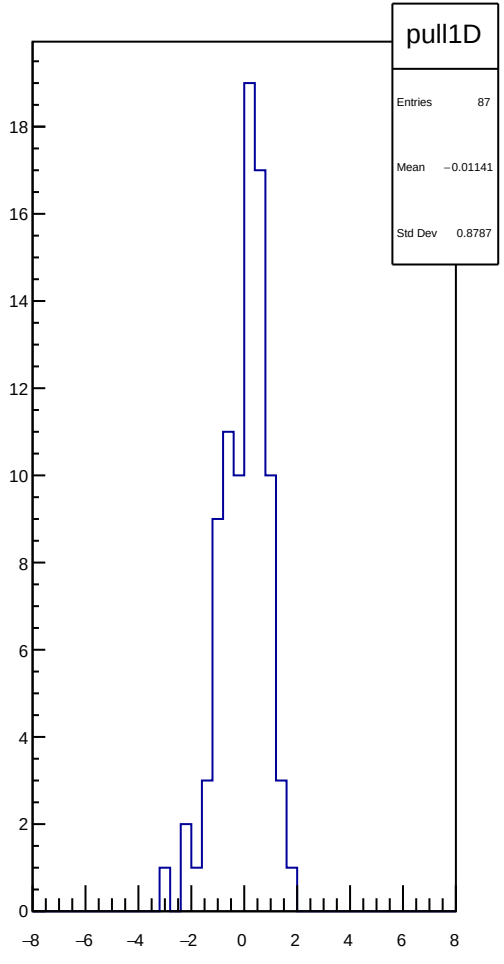

dit_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1.053e+04 / 86
p0 74.81 ± 0.05828
95
90
85
80
75
70
65

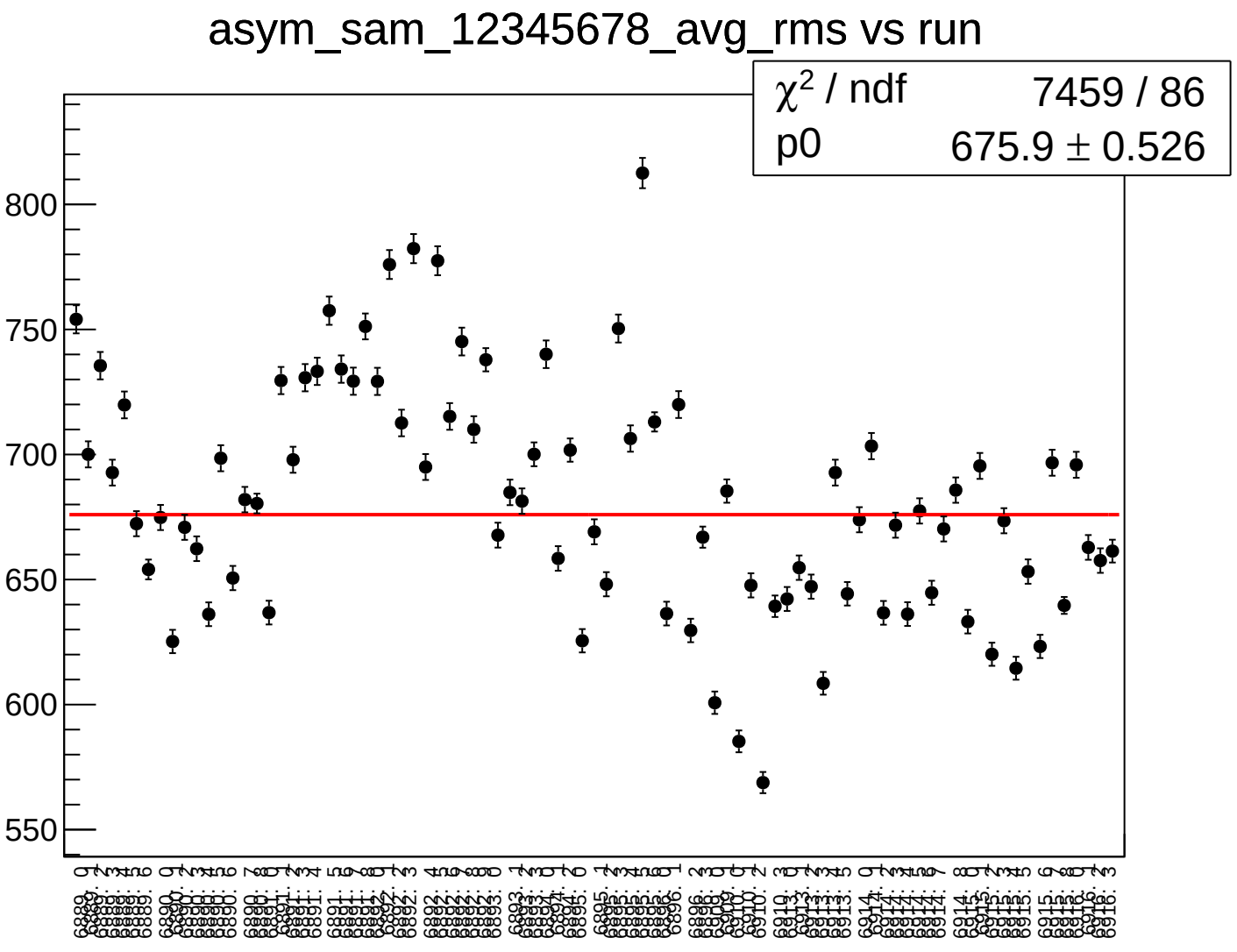

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 68.09 / 86
p0 580.6 ± 715.8
30000
20000
10000
0
−10000
−20000
pull
Entries 87
Mean −327.2
Std Dev 371.2
3
2
1
0
−1
−2

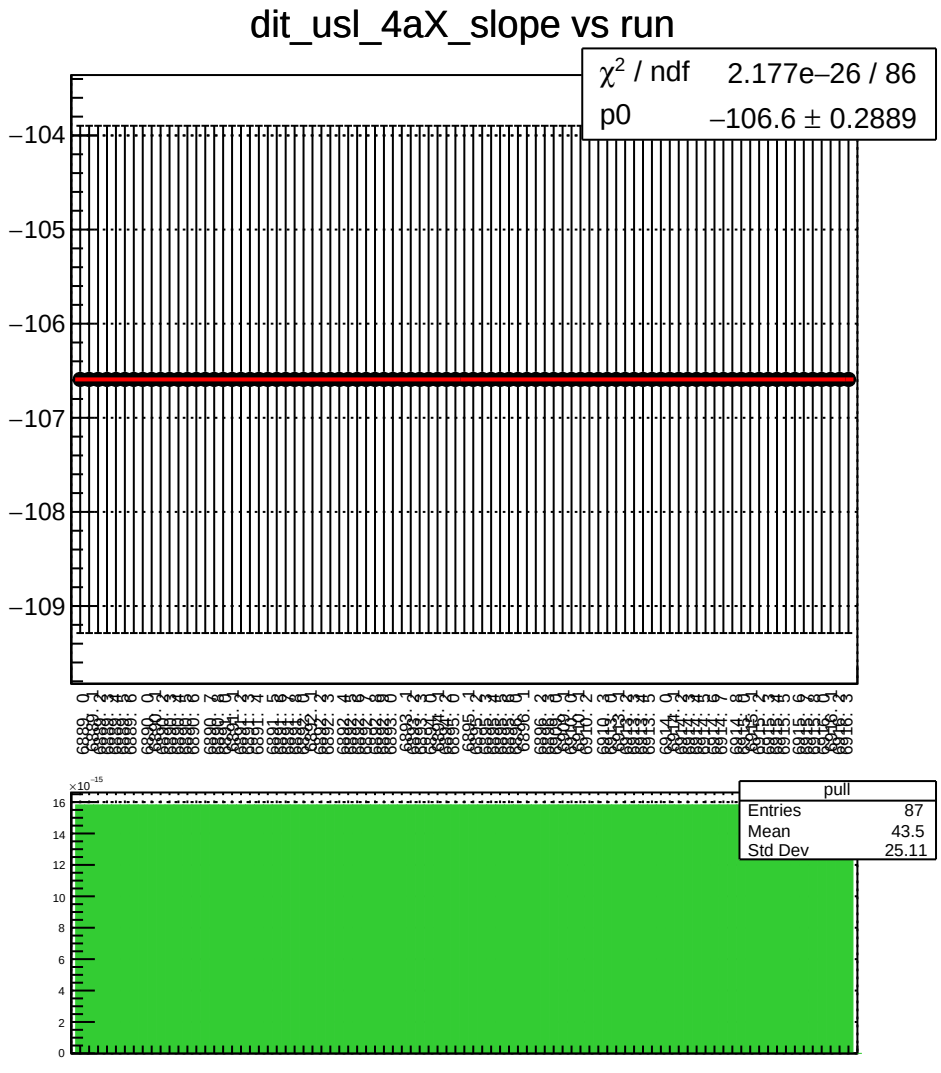

pull1D
Entries 87
Mean 0.01156
Std Dev 0.8846
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

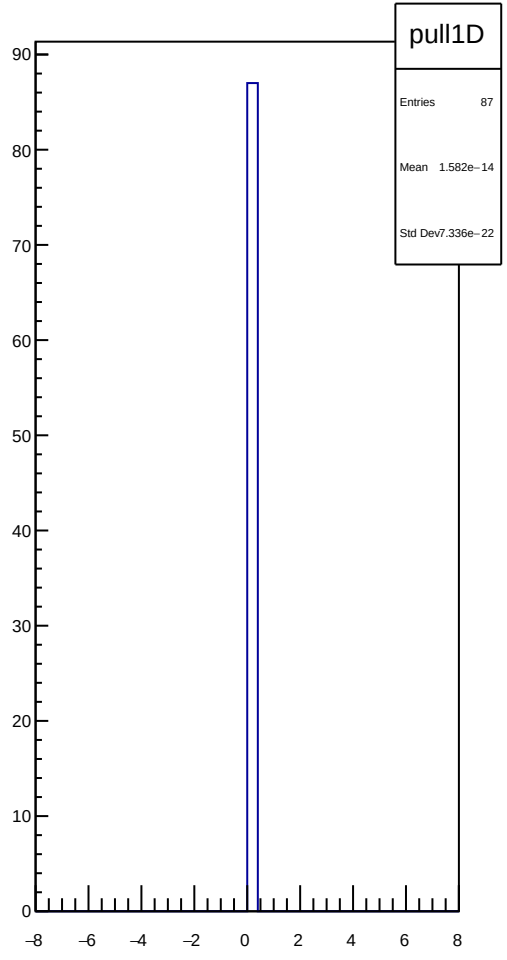

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 6896 / 86
p0 650.5 ± 0.5061
800
750
700
650
600
550

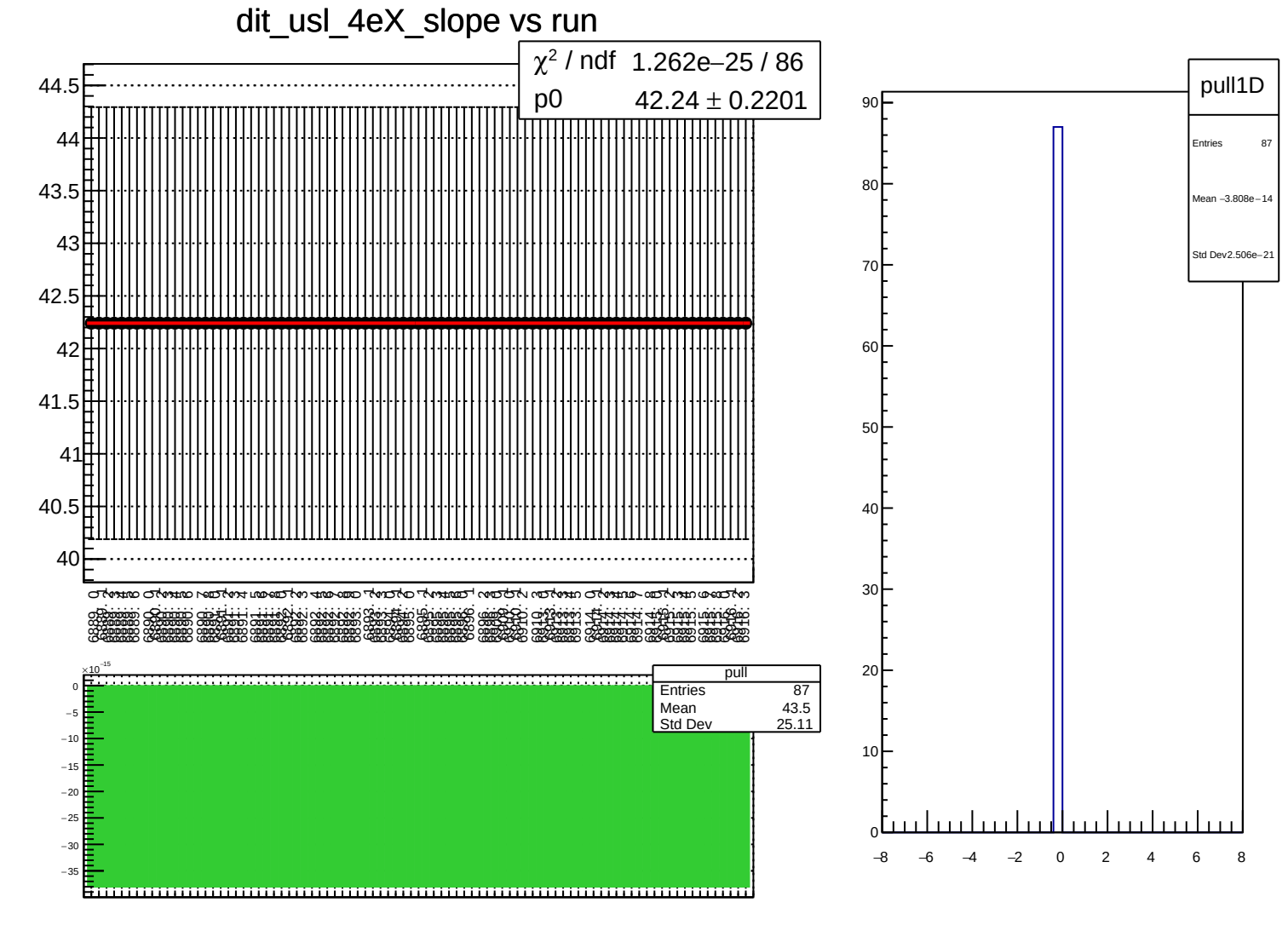

asym_sam_12345678_avg_mean vs run
χ² / ndf 67.18 / 86
p0 −722.4 ± 743.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 87
Mean −360.2
Std Dev 404.1
2
1
0
−1
−2
−3

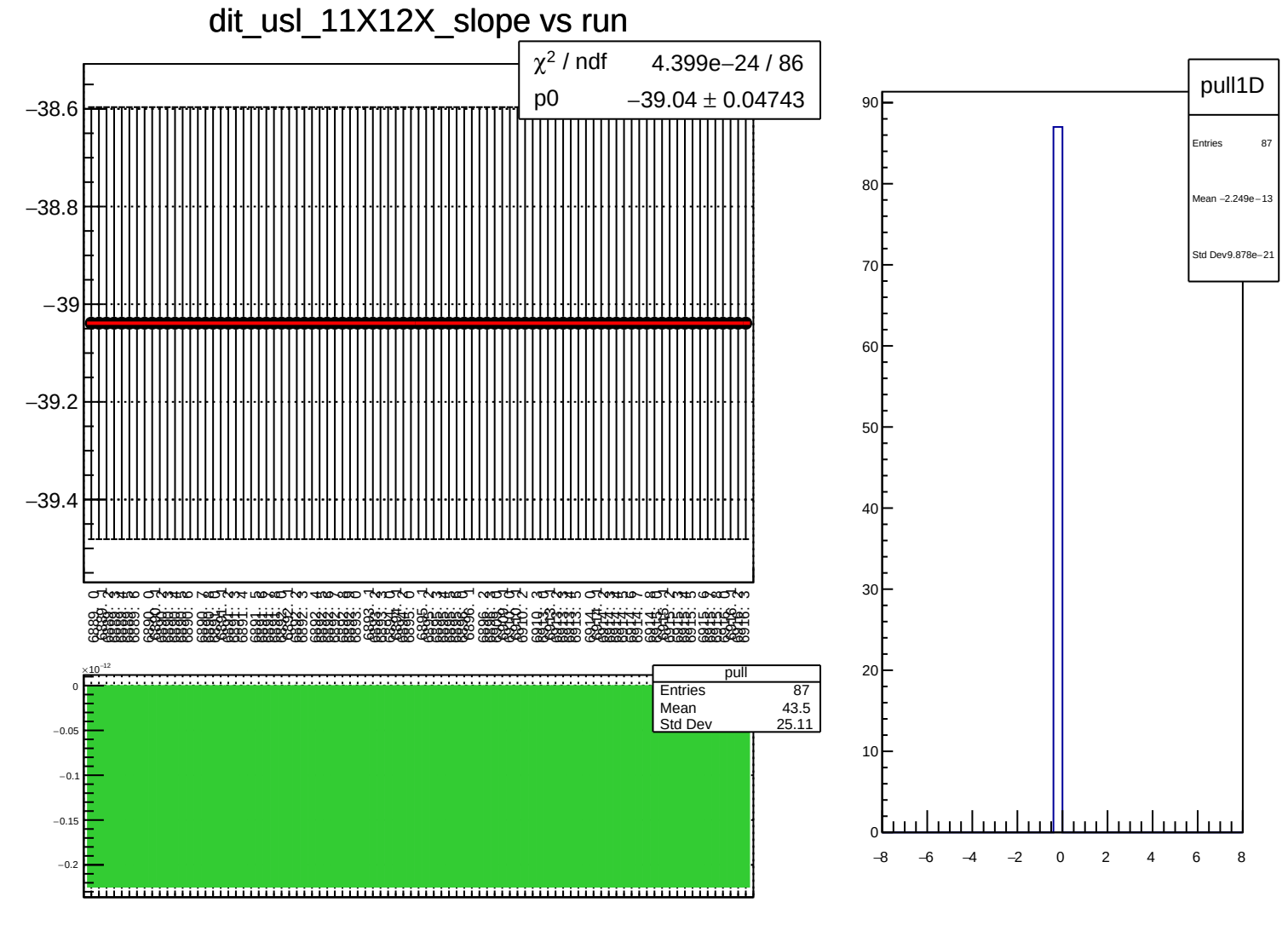

pull1D
Entries 87
Mean −0.01141
Std Dev 0.8787
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

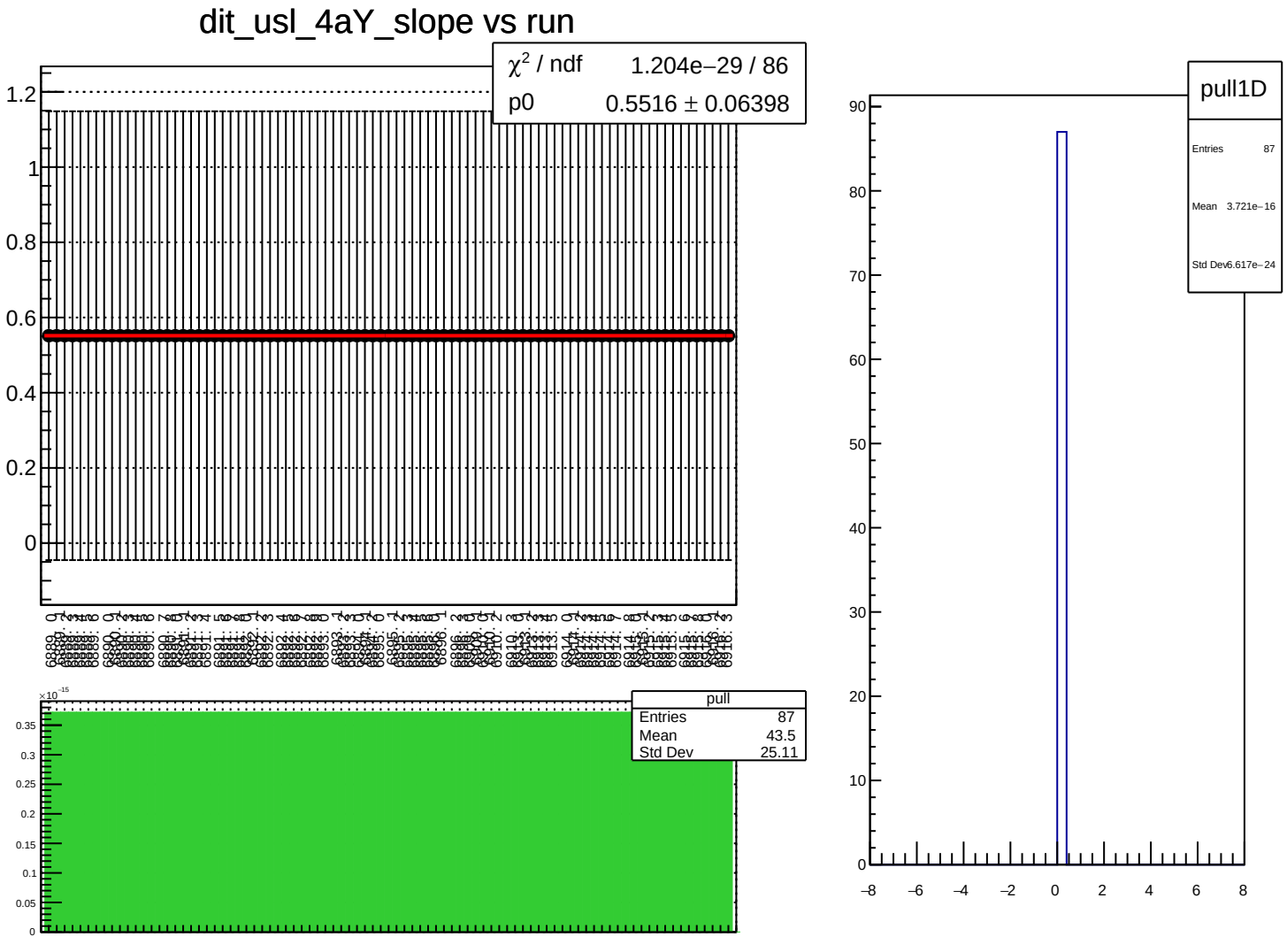

asym_sam_12345678_avg_rms vs run
χ^2 / ndf 7459 / 86
p0 675.9 ± 0.526
800
750
700
650
600
550

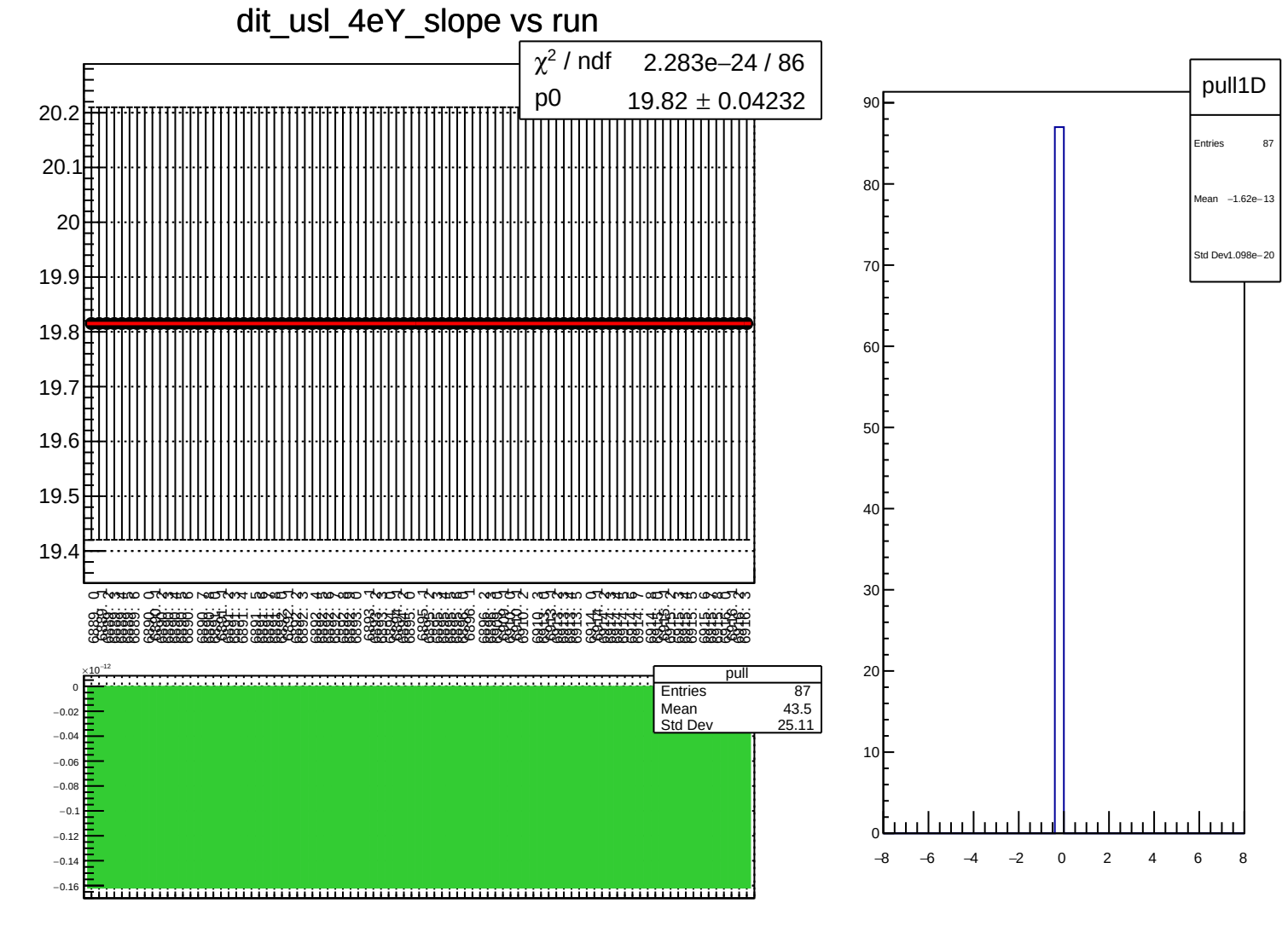

dit_usl_4aX_slope vs run
χ² / ndf 2.177e−26 / 86
p0 −106.6 ± 0.2889
−104
−105
−106
−107
−108
−109
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
16
14
12
10
8
6
4
2
0

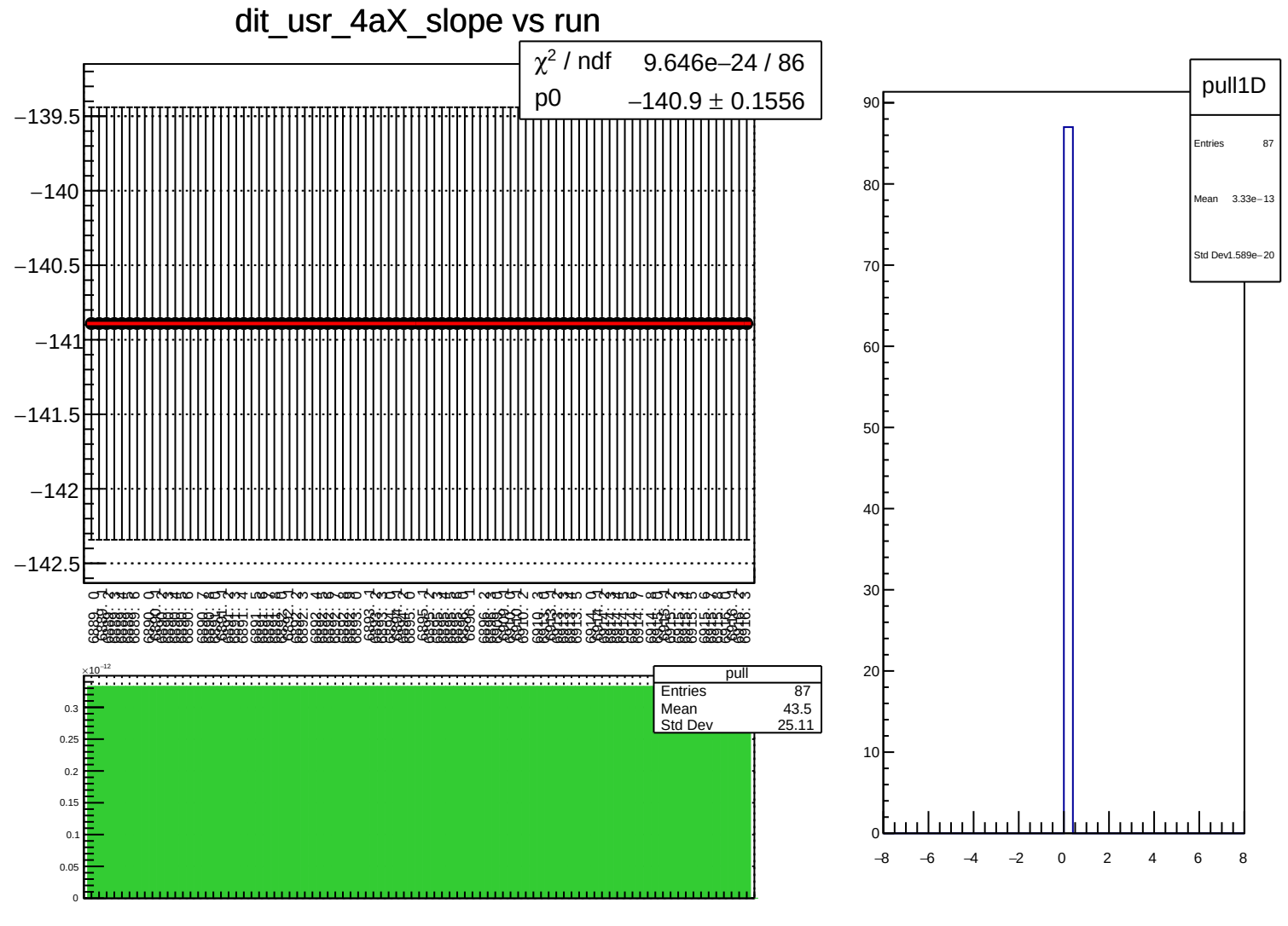

pull1D
Entries 87
Mean 1.582e−14
Std Dev7.336e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

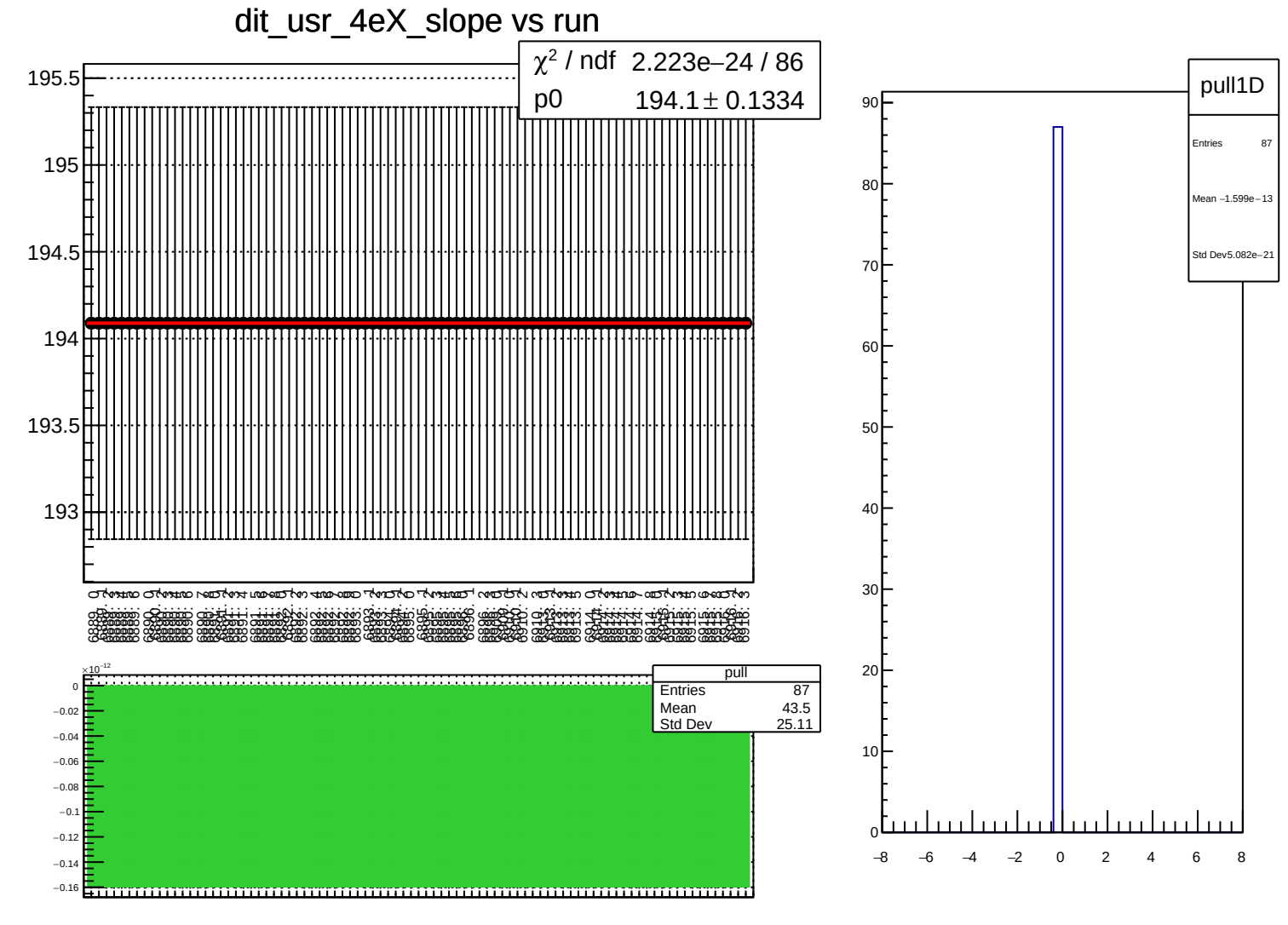

dit_usl_4eX_slope vs run
χ² / ndf 1.262e−25 / 86
p0 42.24 ± 0.2201
pull
Entries 87
Mean 43.5
Std Dev 25.11
pull1D
Entries 87
Mean −3.808e−14
Std Dev2.506e−21

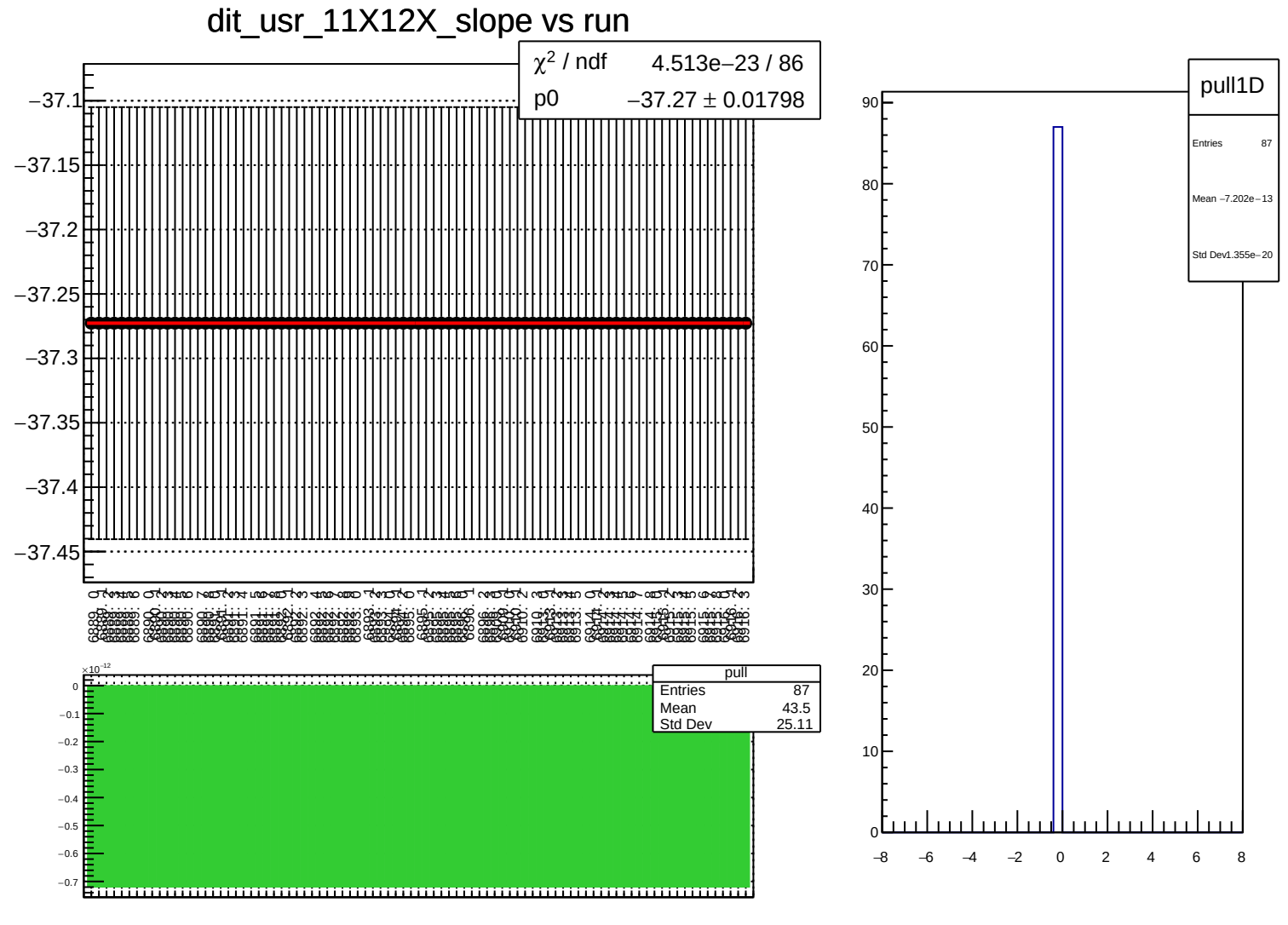

dit_usl_11X12X_slope vs run
χ² / ndf 4.399e−24 / 86
p0 −39.04 ± 0.04743
−38.6
−38.8
−39
−39.2
−39.4
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 87
Mean −2.249e−13
Std Dev9.878e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

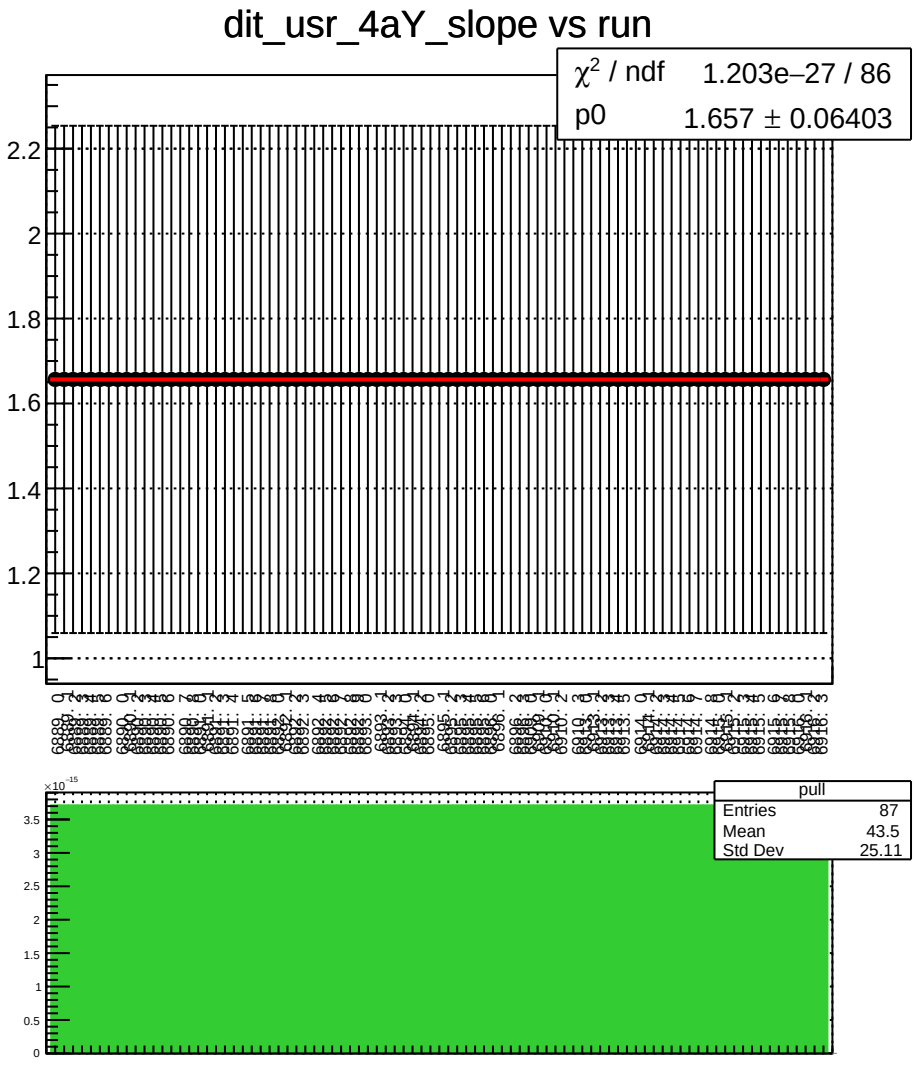

dit_usl_4aY_slope vs run
χ² / ndf 1.204e−29 / 86
p0 0.5516 ± 0.06398
pull
Entries 87
Mean 43.5
Std Dev 25.11
pull1D
Entries 87
Mean 3.721e−16
Std Dev 6.617e−24

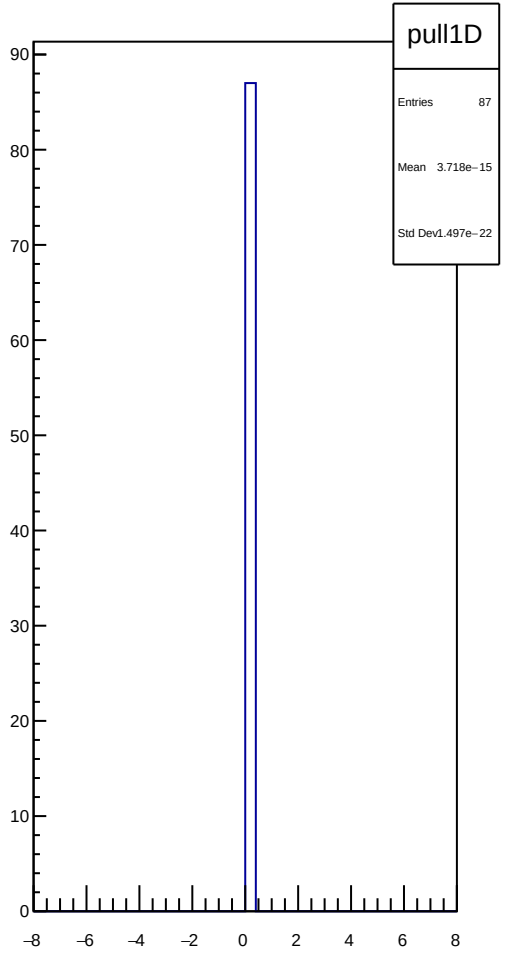

dit_usl_4eY_slope vs run
χ² / ndf 2.283e−24 / 86
p0 19.82 ± 0.04232
20.2
20.1
20
19.9
19.8
19.7
19.6
19.5
19.4
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
pull1D
Entries 87
Mean −1.62e−13
Std Dev1.098e−20
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

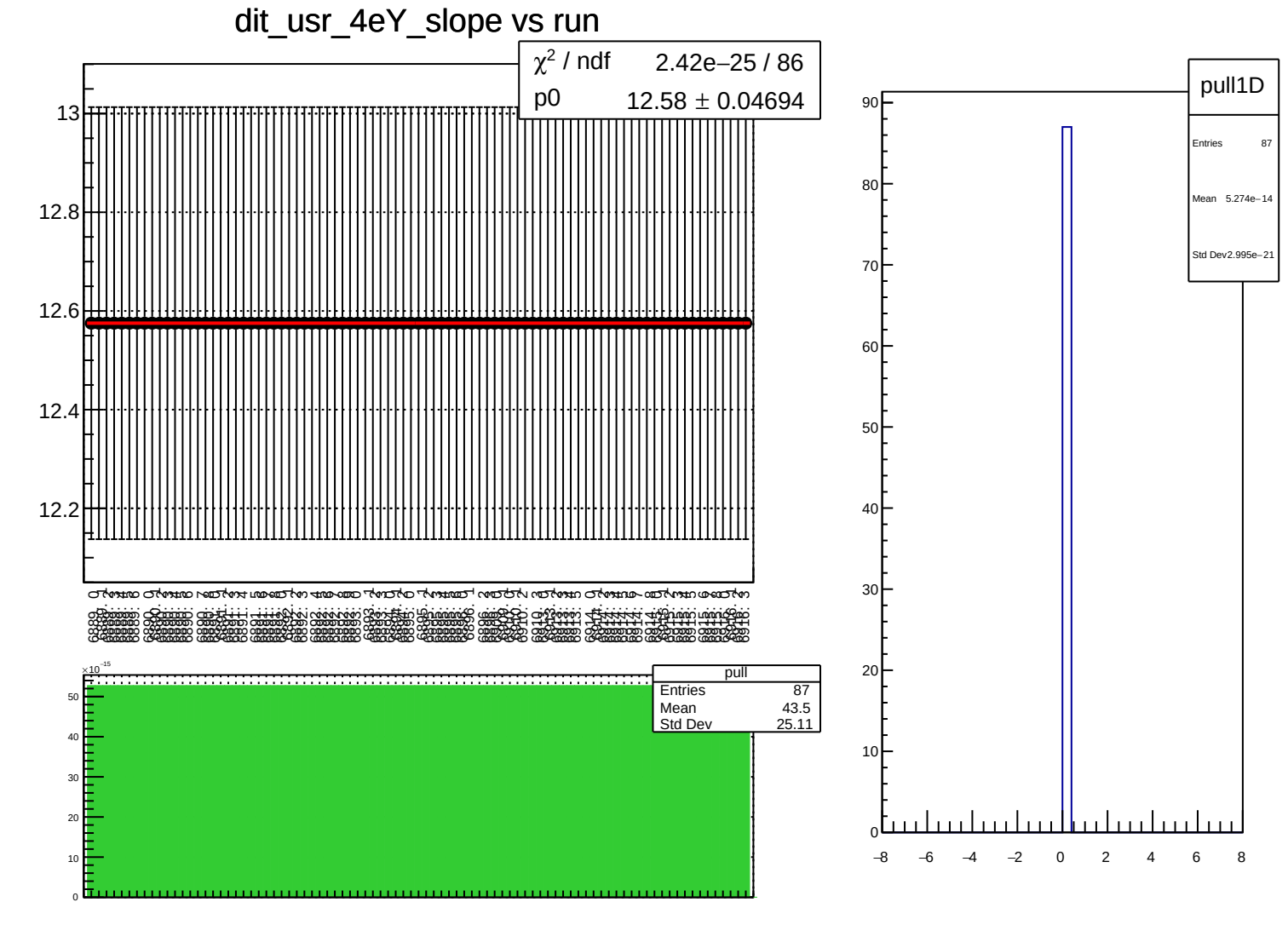

dit_usr_4aX_slope vs run
χ² / ndf 9.646e−24 / 86
p0 −140.9 ± 0.1556
−139.5
−140
−140.5
−141
−141.5
−142
−142.5
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0.3
0.25
0.2
0.15
0.1
0.05
0
pull1D
Entries 87
Mean 3.33e−13
Std Dev 1.589e−20
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

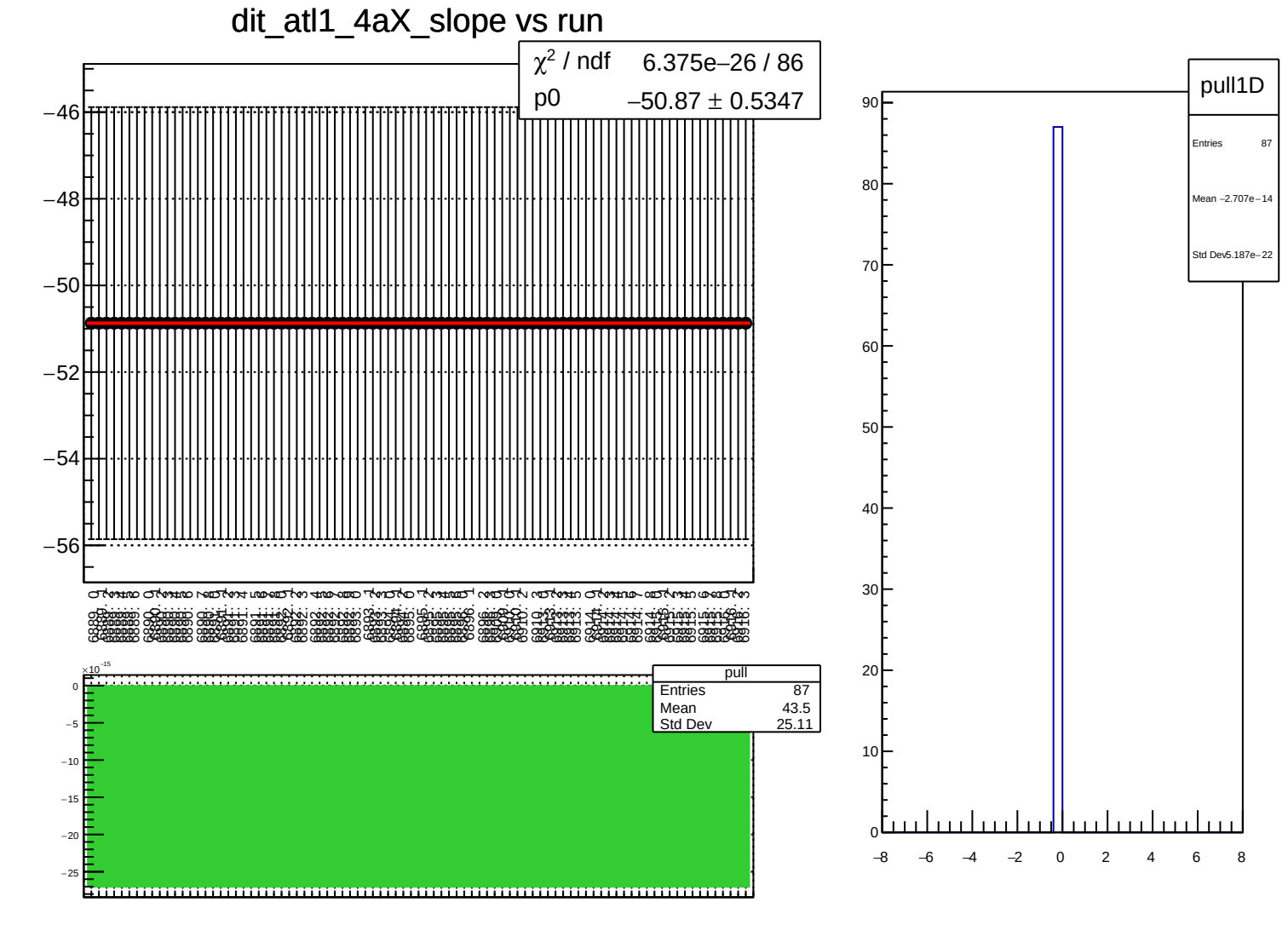

dit_usr_4eX_slope vs run
χ² / ndf 2.223e−24 / 86
p0 194.1 ± 0.1334
195.5
195
194.5
194
193.5
193
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
pull1D
Entries 87
Mean −1.599e−13
Std Dev5.082e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

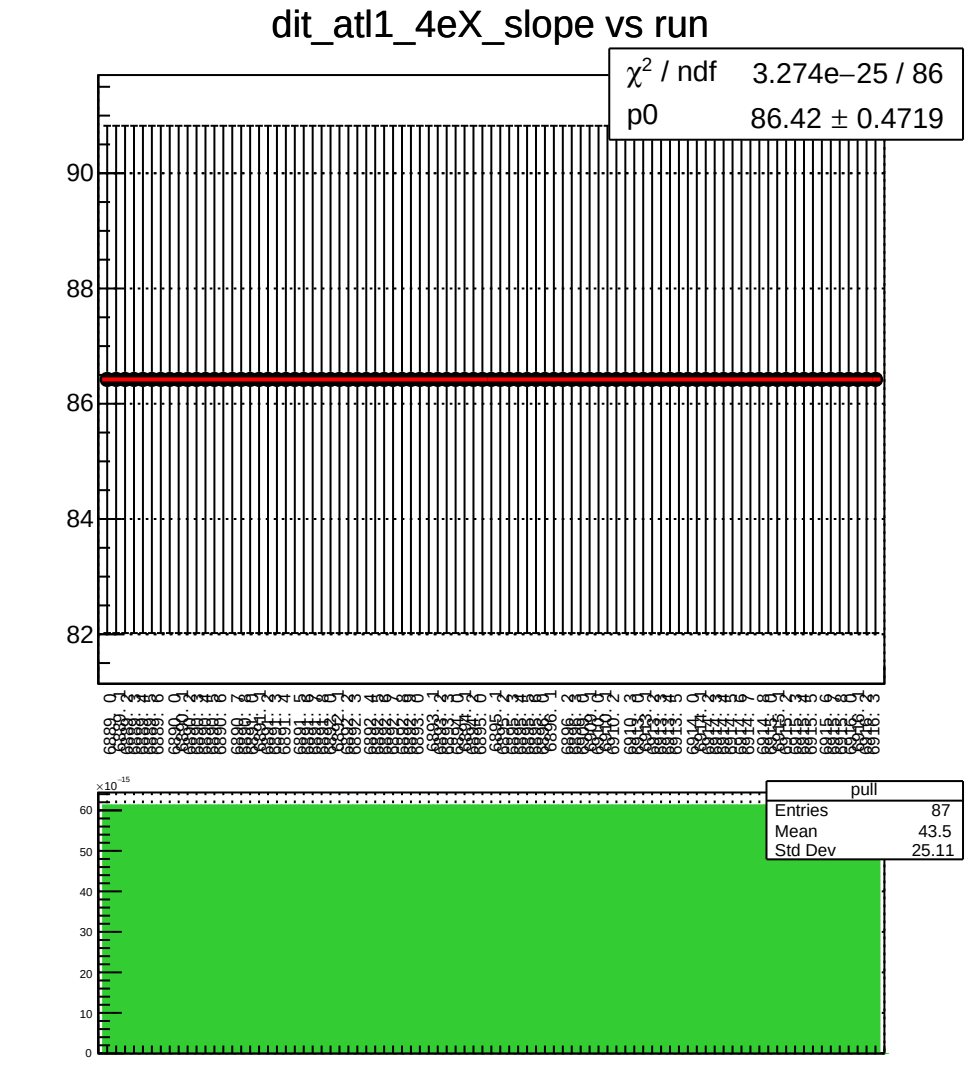

dit_usr_11X12X_slope vs run
χ² / ndf 4.513e−23 / 86
p0 −37.27 ± 0.01798
−37.1
−37.15
−37.2
−37.25
−37.3
−37.35
−37.4
−37.45
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
pull1D
Entries 87
Mean −7.202e−13
Std Dev1.355e−20
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

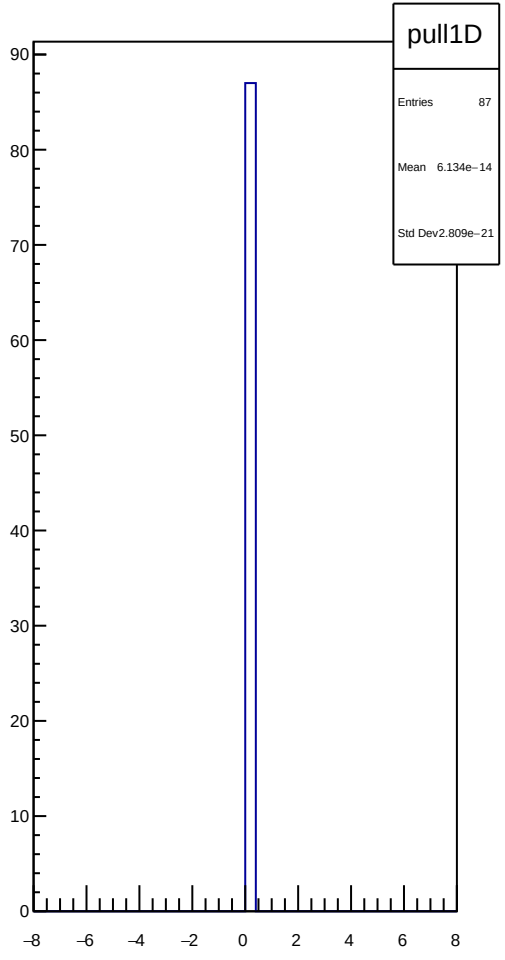

dit_usr_4aY_slope vs run
χ² / ndf 1.203e−27 / 86
p0 1.657 ± 0.06403
pull
Entries 87
Mean 43.5
Std Dev 25.11

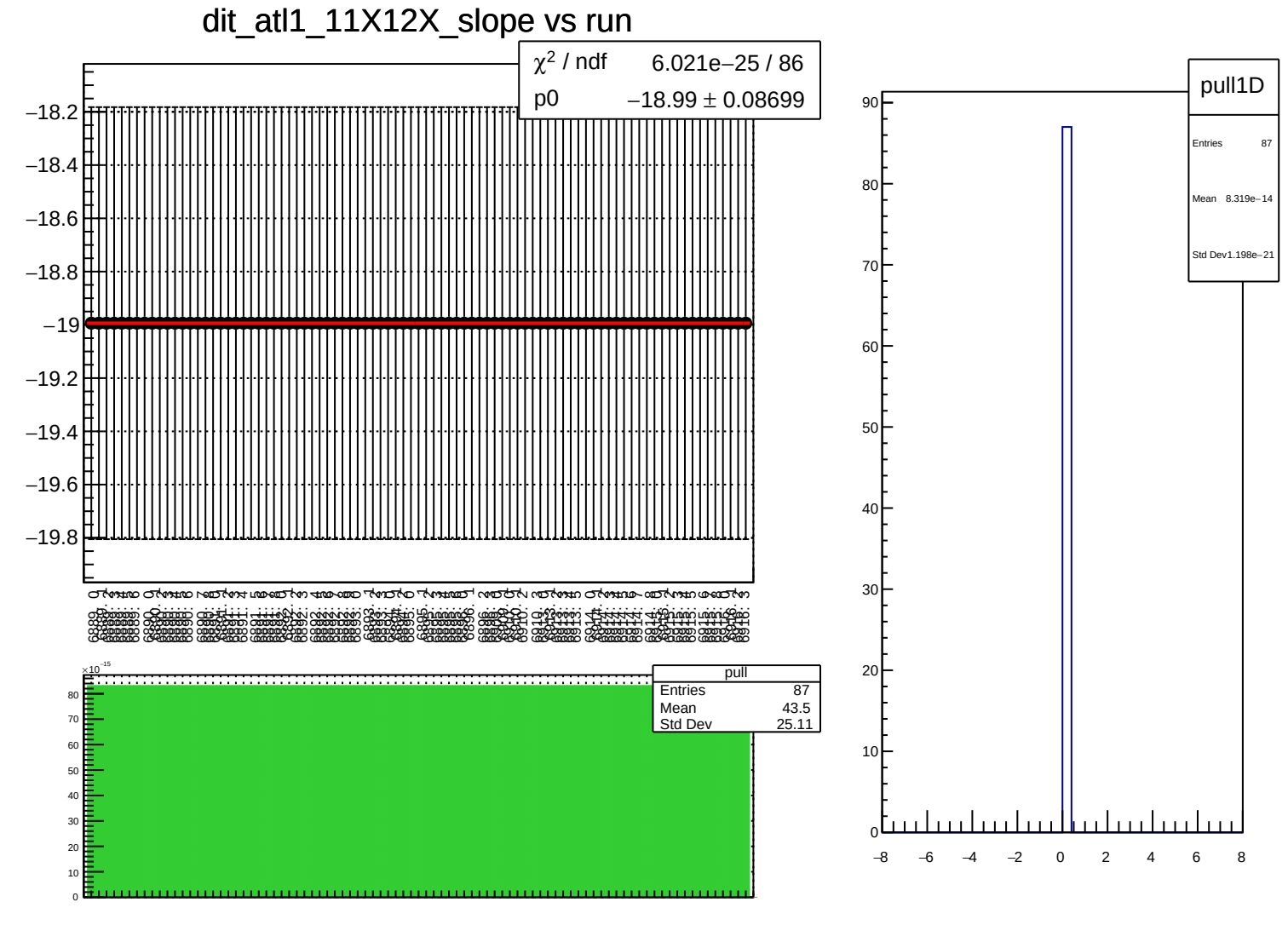

pull1D
Entries 87
Mean 3.718e−15
Std Dev1.497e−22

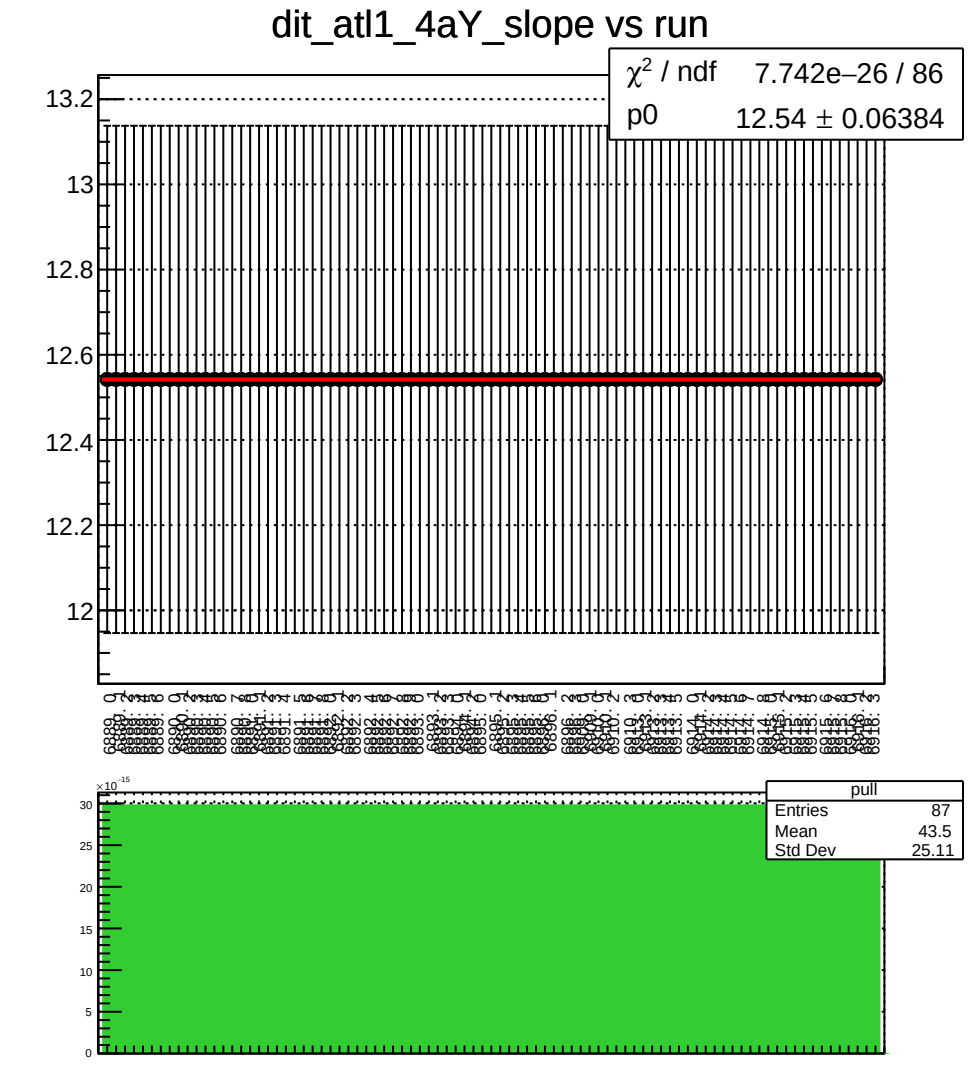

dit_usr_4eY_slope vs run
χ² / ndf 2.42e−25 / 86
p0 12.58 ± 0.04694
13
12.8
12.6
12.4
12.2
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
50
40
30
20
10
0
pull1D
Entries 87
Mean 5.274e−14
Std Dev2.995e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

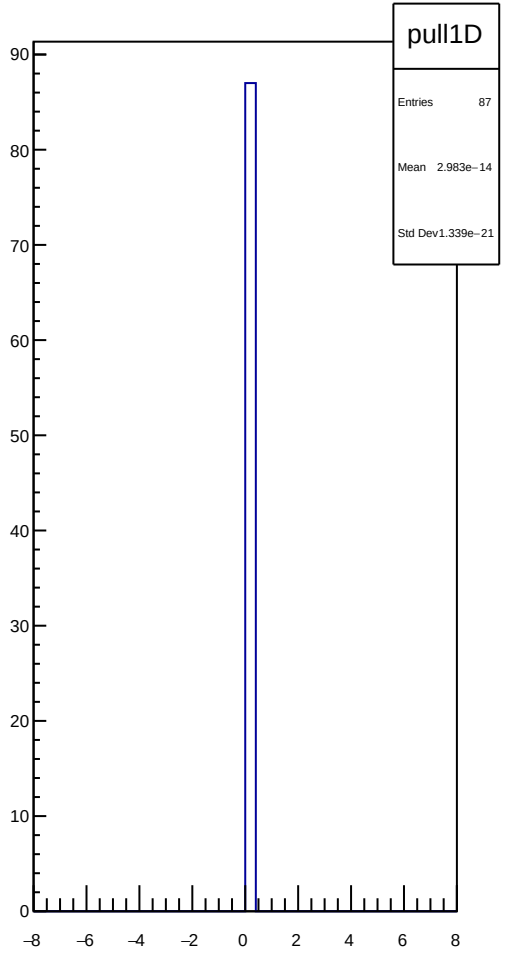

dit_atl1_4aX_slope vs run
χ² / ndf 6.375e−26 / 86
p0 −50.87 ± 0.5347
−46
−48
−50
−52
−54
−56
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
0
−5
−10
−15
−20
−25
pull1D
Entries 87
Mean −2.707e−14
Std Dev 5.187e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

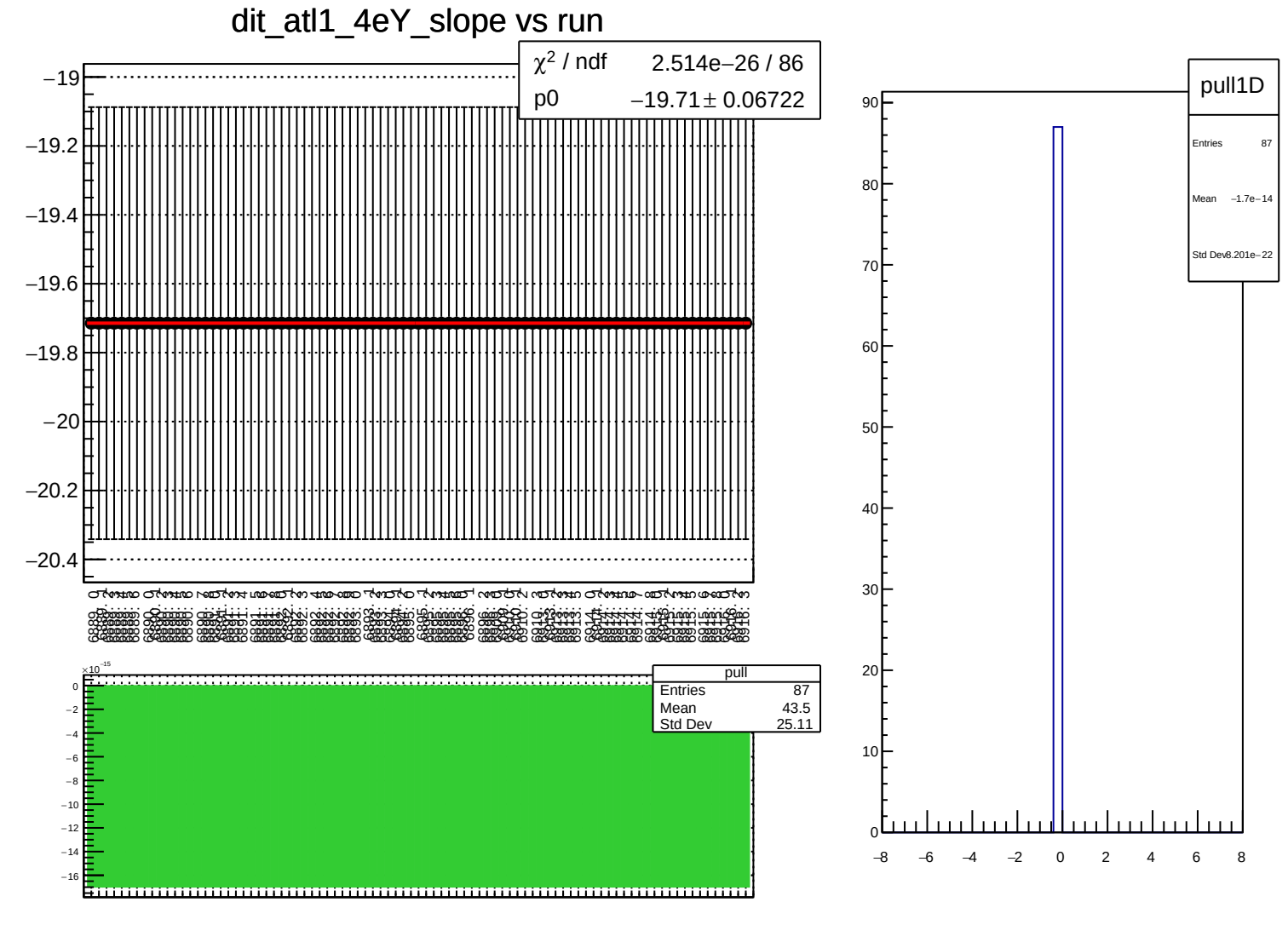

dit_atl1_4eX_slope vs run
χ² / ndf 3.274e−25 / 86
p0 86.42 ± 0.4719
90
88
86
84
82
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
60
50
40
30
20
10
0

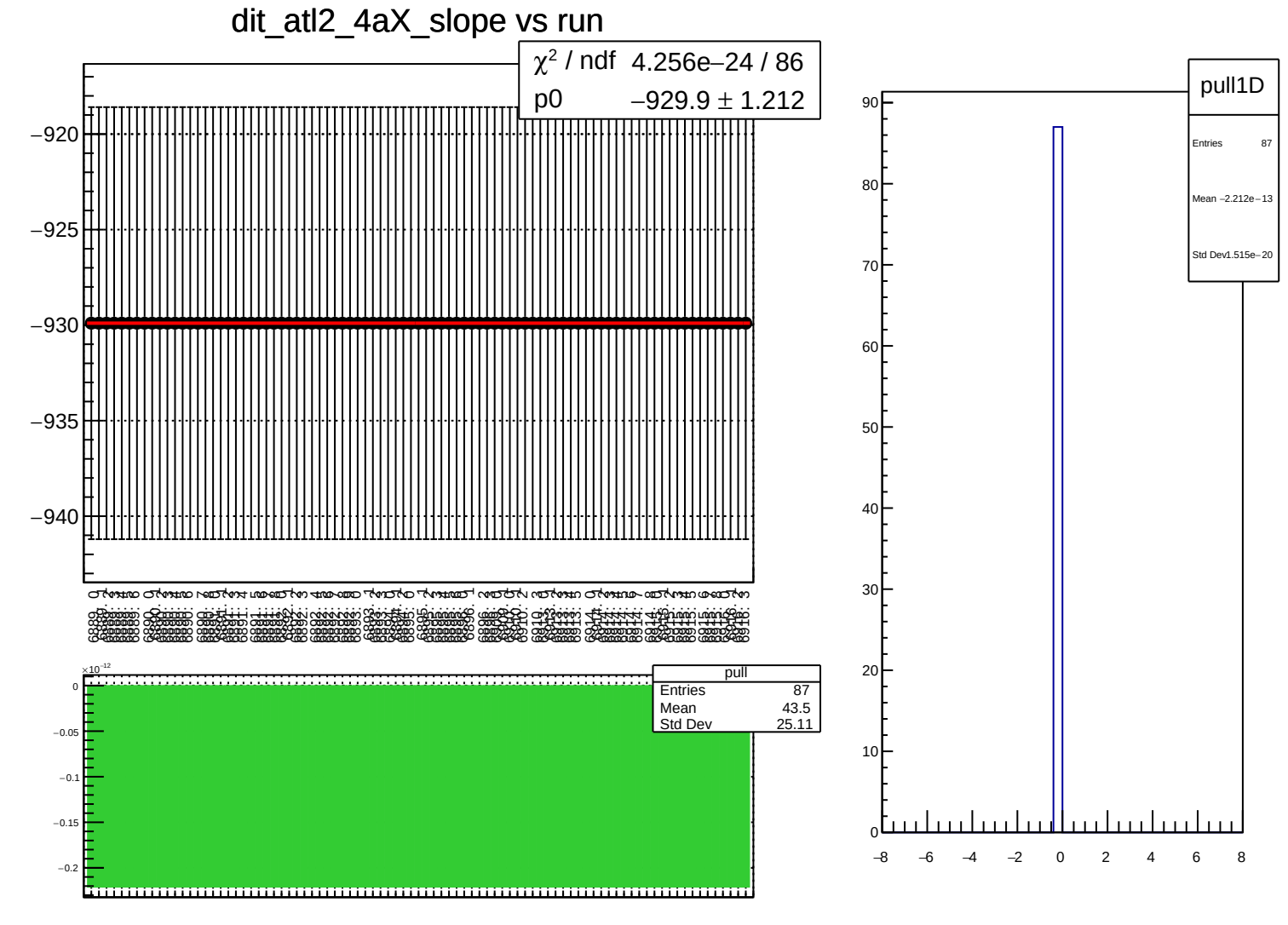

pull1D
Entries 87
Mean 6.134e−14
Std Dev2.809e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

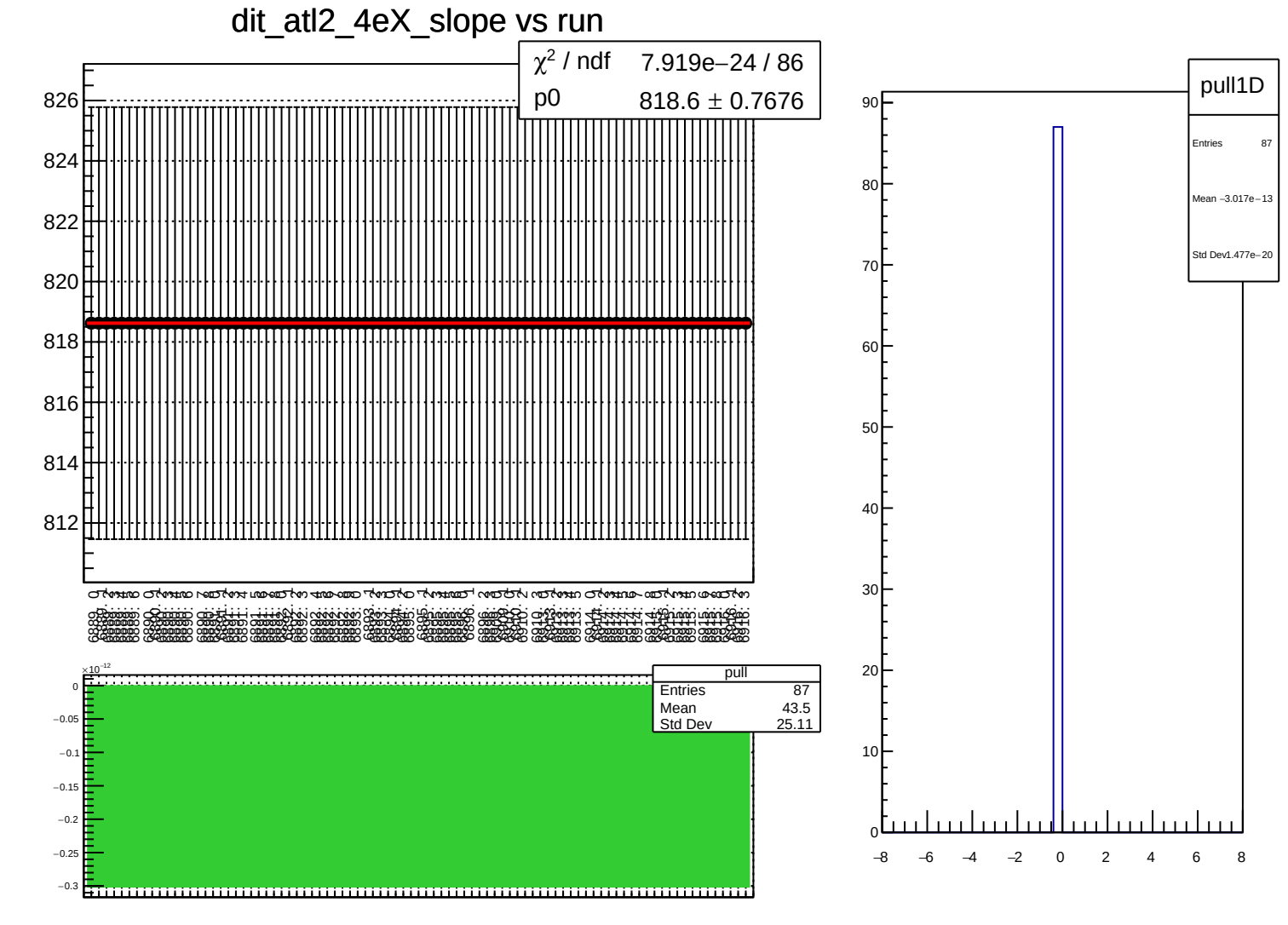

dit_atl1_11X12X_slope vs run
χ² / ndf 6.021e−25 / 86
p0 −18.99 ± 0.08699
−18.2
−18.4
−18.6
−18.8
−19
−19.2
−19.4
−19.6
−19.8
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
pull1D
Entries 87
Mean 8.319e−14
Std Dev1.198e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

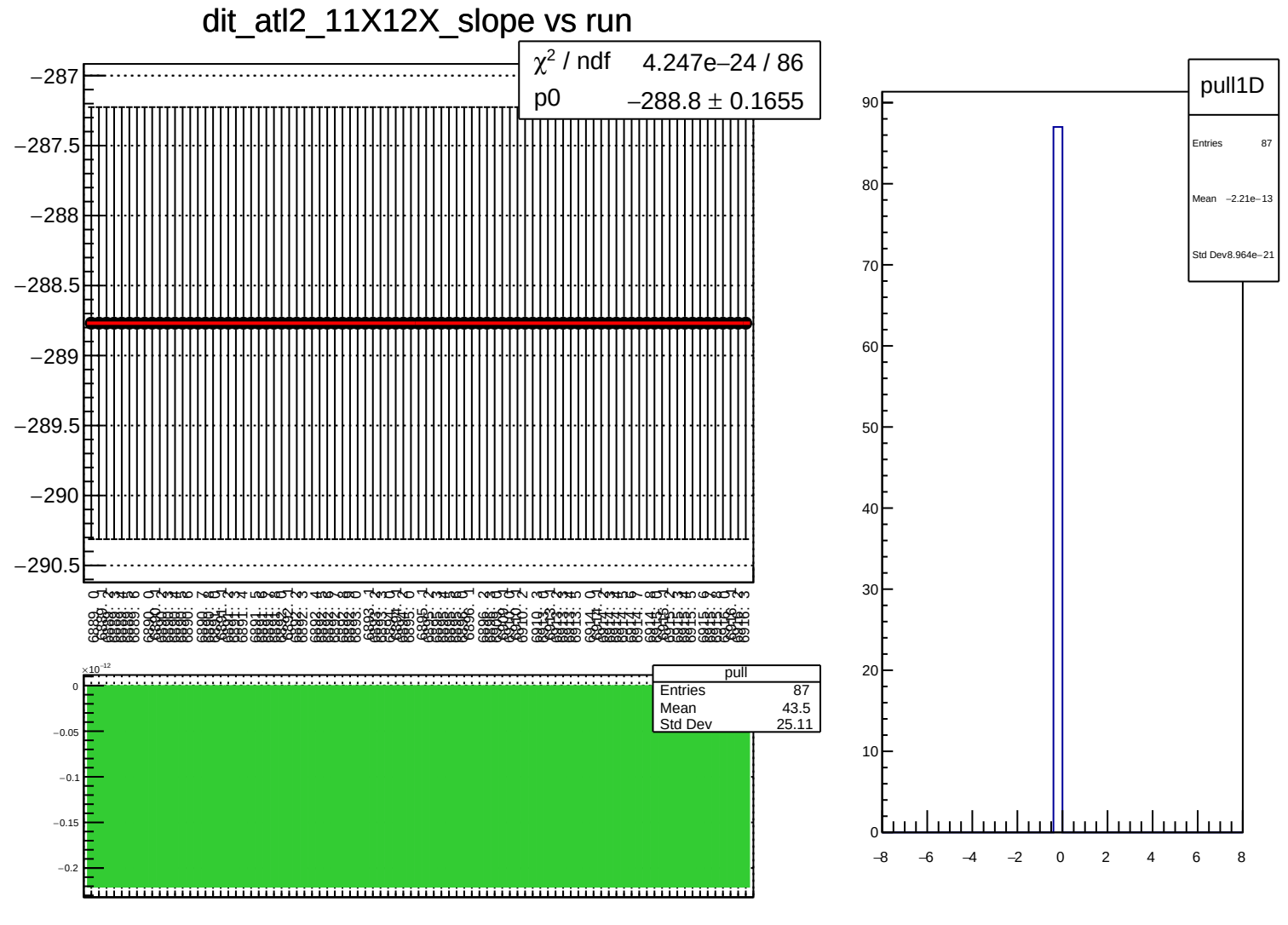

dit_atl1_4aY_slope vs run
χ² / ndf 7.742e−26 / 86
p0 12.54 ± 0.06384
13.2
13
12.8
12.6
12.4
12.2
12
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
30
25
20
15
10
5
0

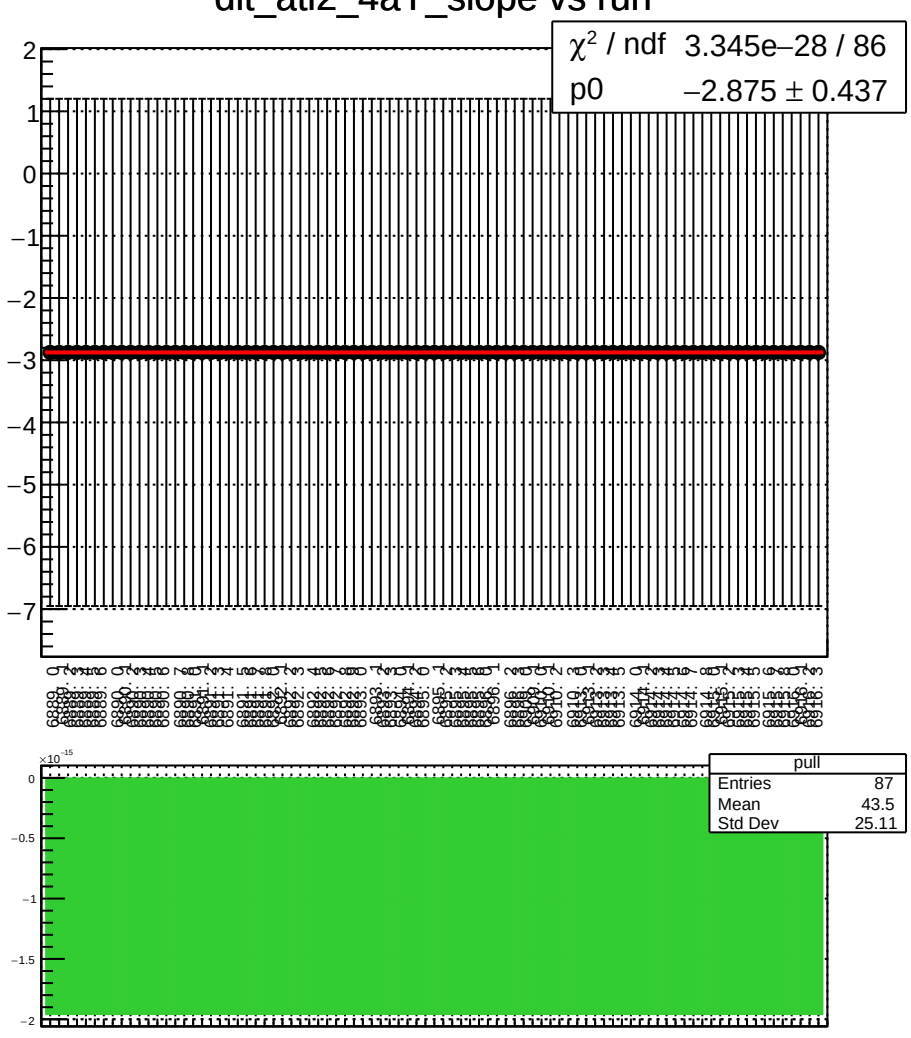

pull1D
Entries 87
Mean 2.983e−14
Std Dev1.339e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

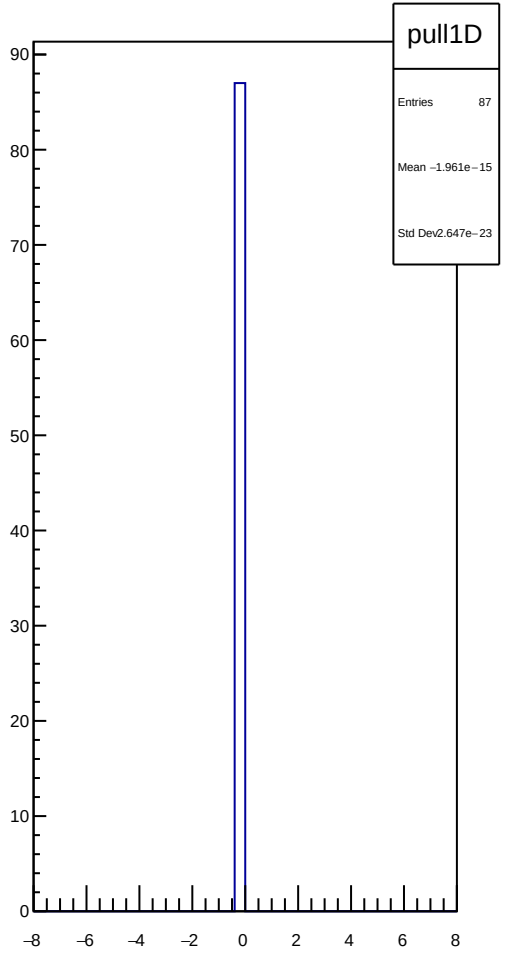

dit_atl1_4eY_slope vs run
χ² / ndf 2.514e−26 / 86
p0 −19.71 ± 0.06722
−19
−19.2
−19.4
−19.6
−19.8
−20
−20.2
−20.4
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
pull1D
Entries 87
Mean −1.7e−14
Std Dev 8.201e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

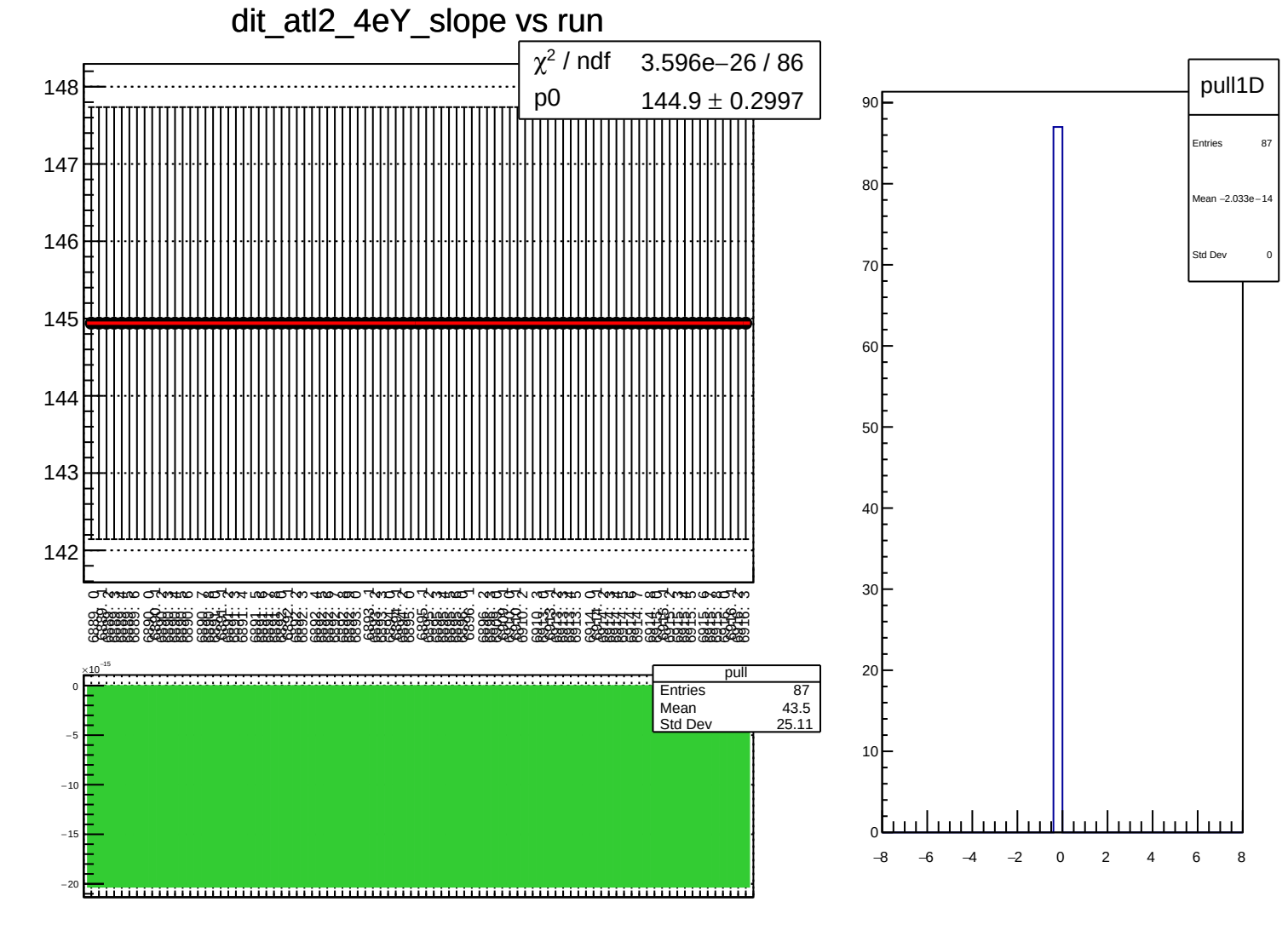

dit_atl2_4aX_slope vs run
χ² / ndf 4.256e−24 / 86
p0 −929.9 ± 1.212
−920
−925
−930
−935
−940
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 87
Mean −2.212e−13
Std Dev1.515e−20
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

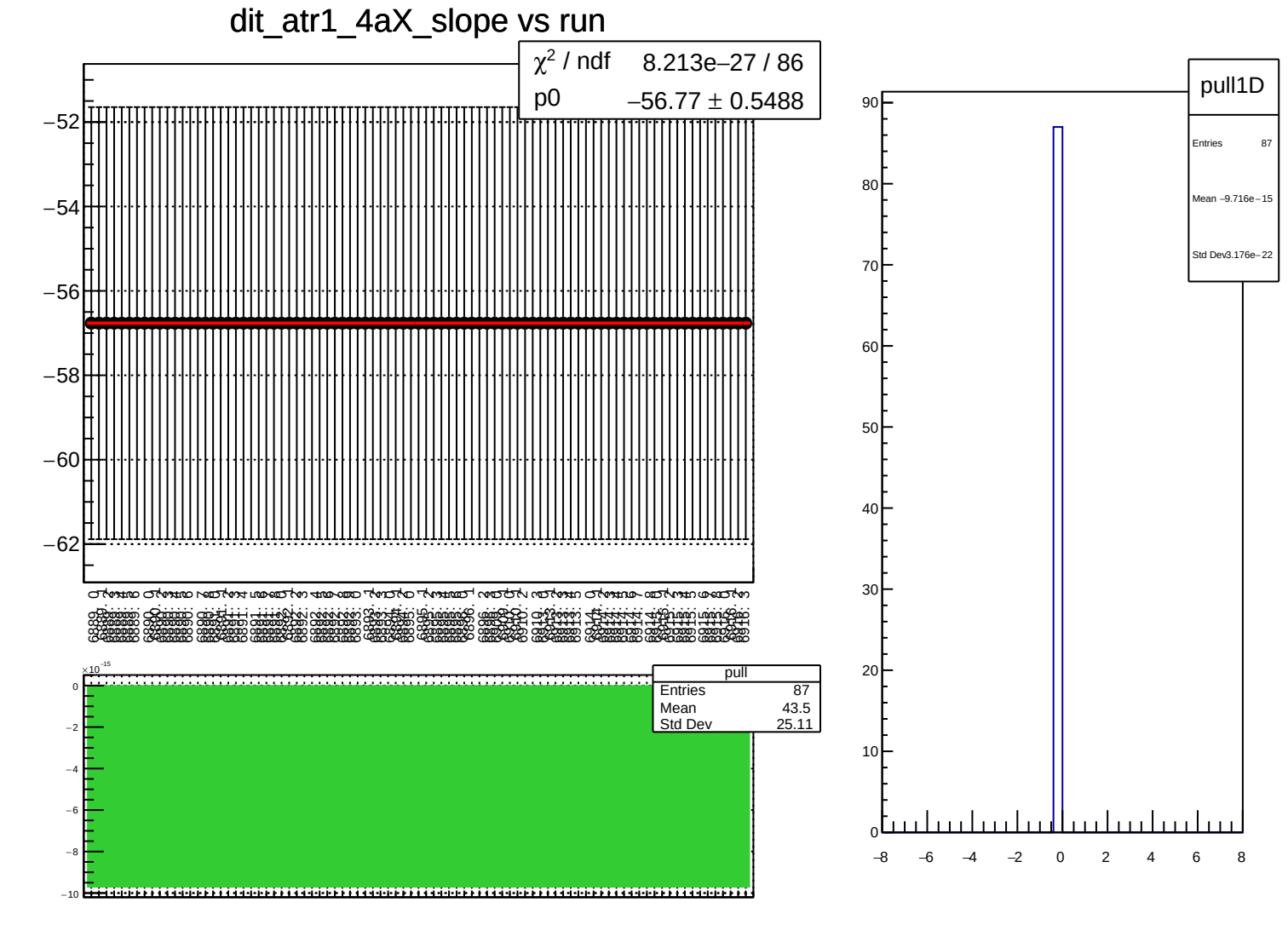

dit_atl2_4eX_slope vs run
χ² / ndf 7.919e−24 / 86
p0 818.6 ± 0.7676
826
824
822
820
818
816
814
812
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 87
Mean 43.5
Std Dev 25.11
pull1D
Entries 87
Mean −3.017e−13
Std Dev1.477e−20
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

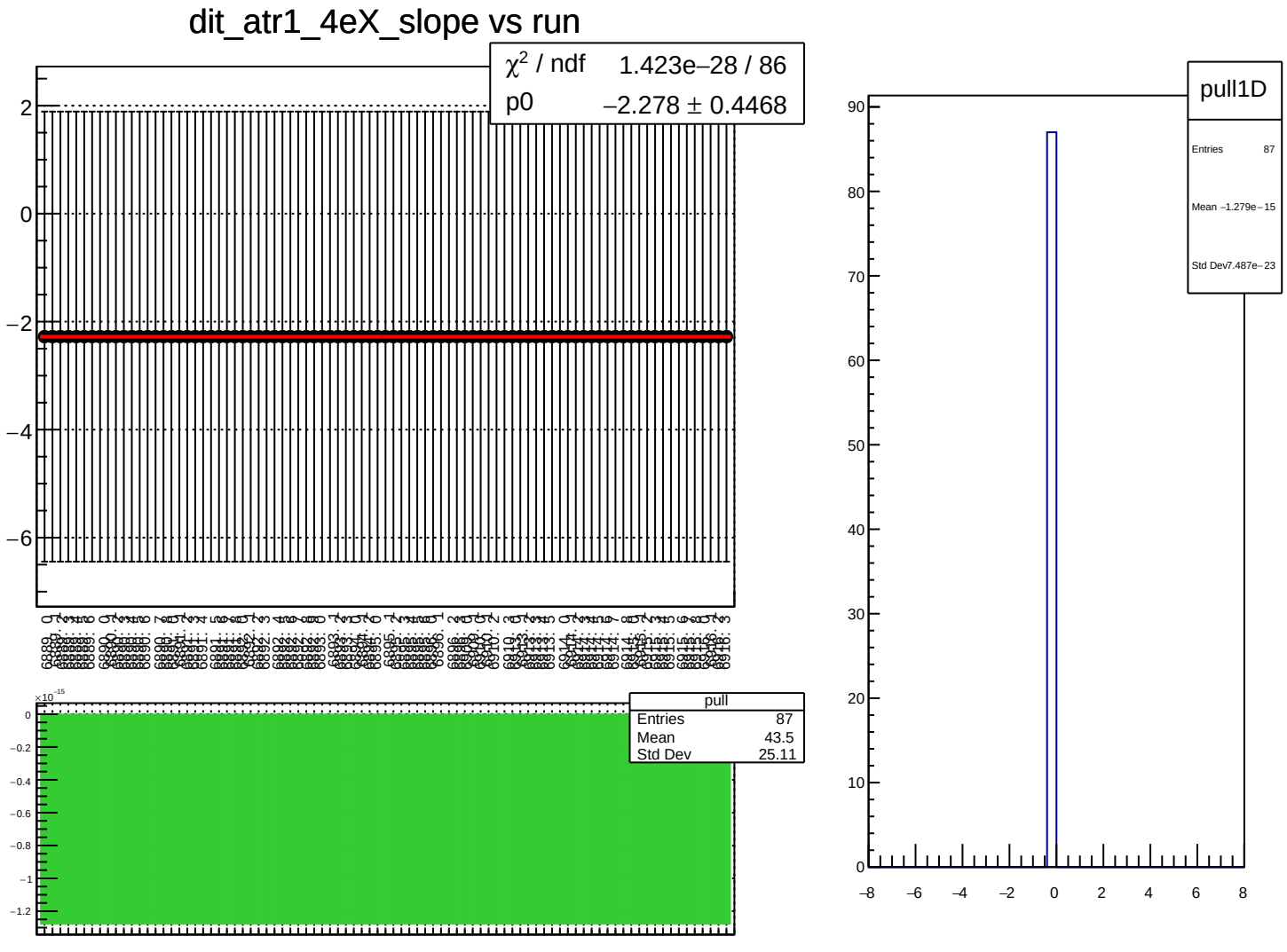

dit_atl2_11X12X_slope vs run
χ² / ndf 4.247e−24 / 86
p0 −288.8 ± 0.1655
−287
−287.5
−288
−288.5
−289
−289.5
−290
−290.5
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 87
Mean −2.21e−13
Std Dev8.964e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

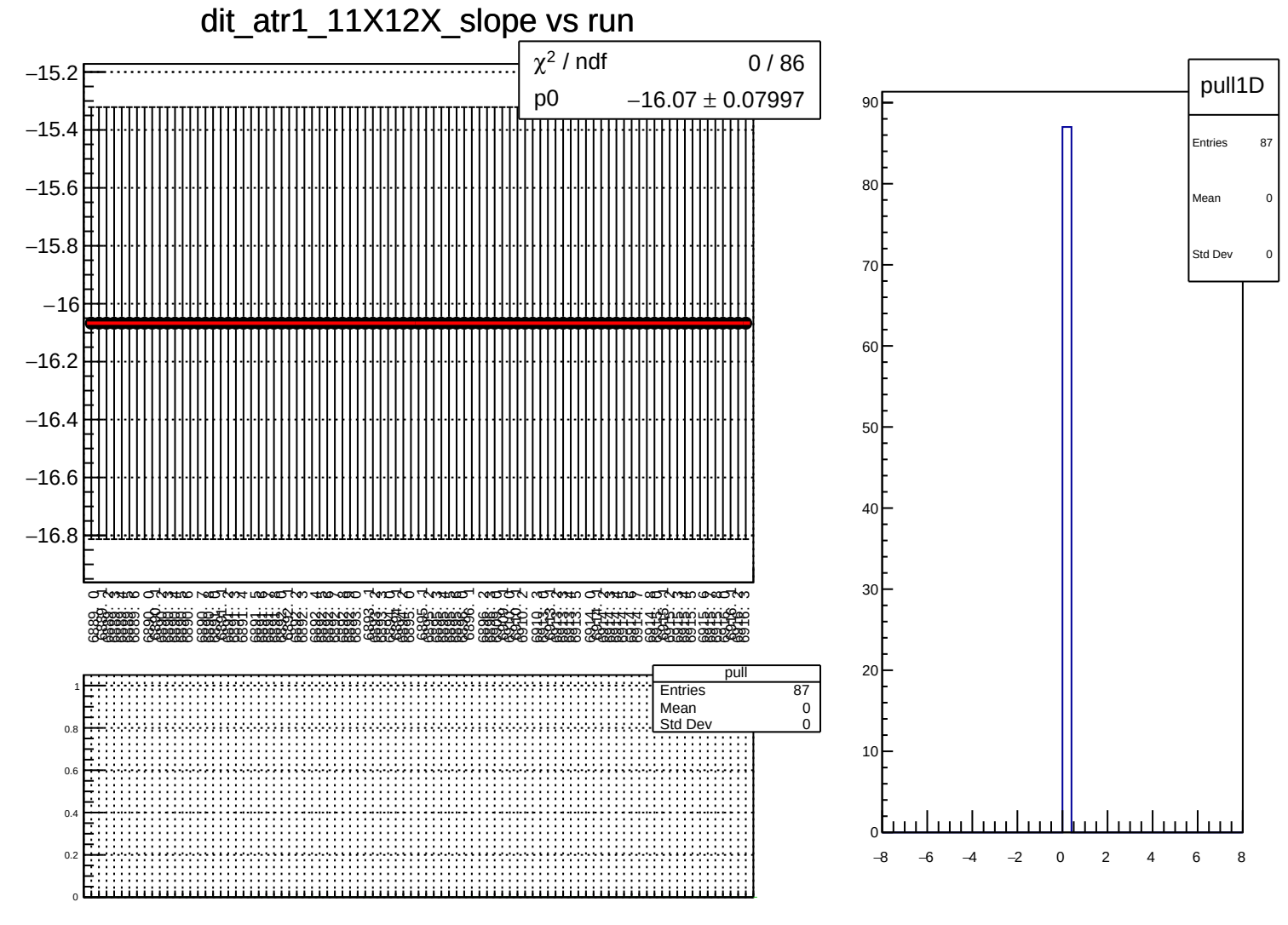

dit_atl2_4aY_slope vs run
χ² / ndf 3.345e−28 / 86
p0 −2.875 ± 0.437
pull
Entries 87
Mean 43.5
Std Dev 25.11

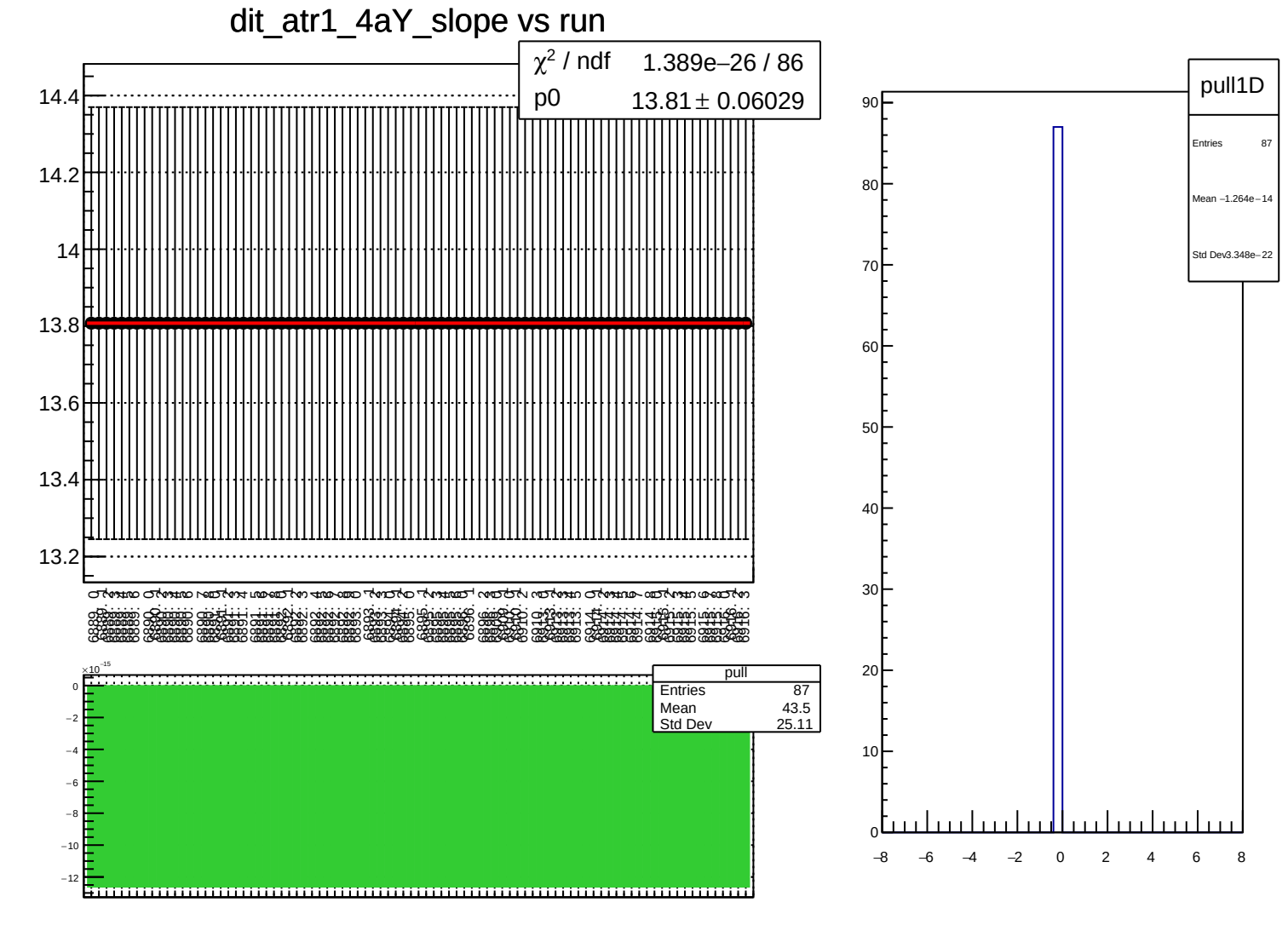

pull1D
Entries 87
Mean −1.961e−15
Std Dev 2.647e−23

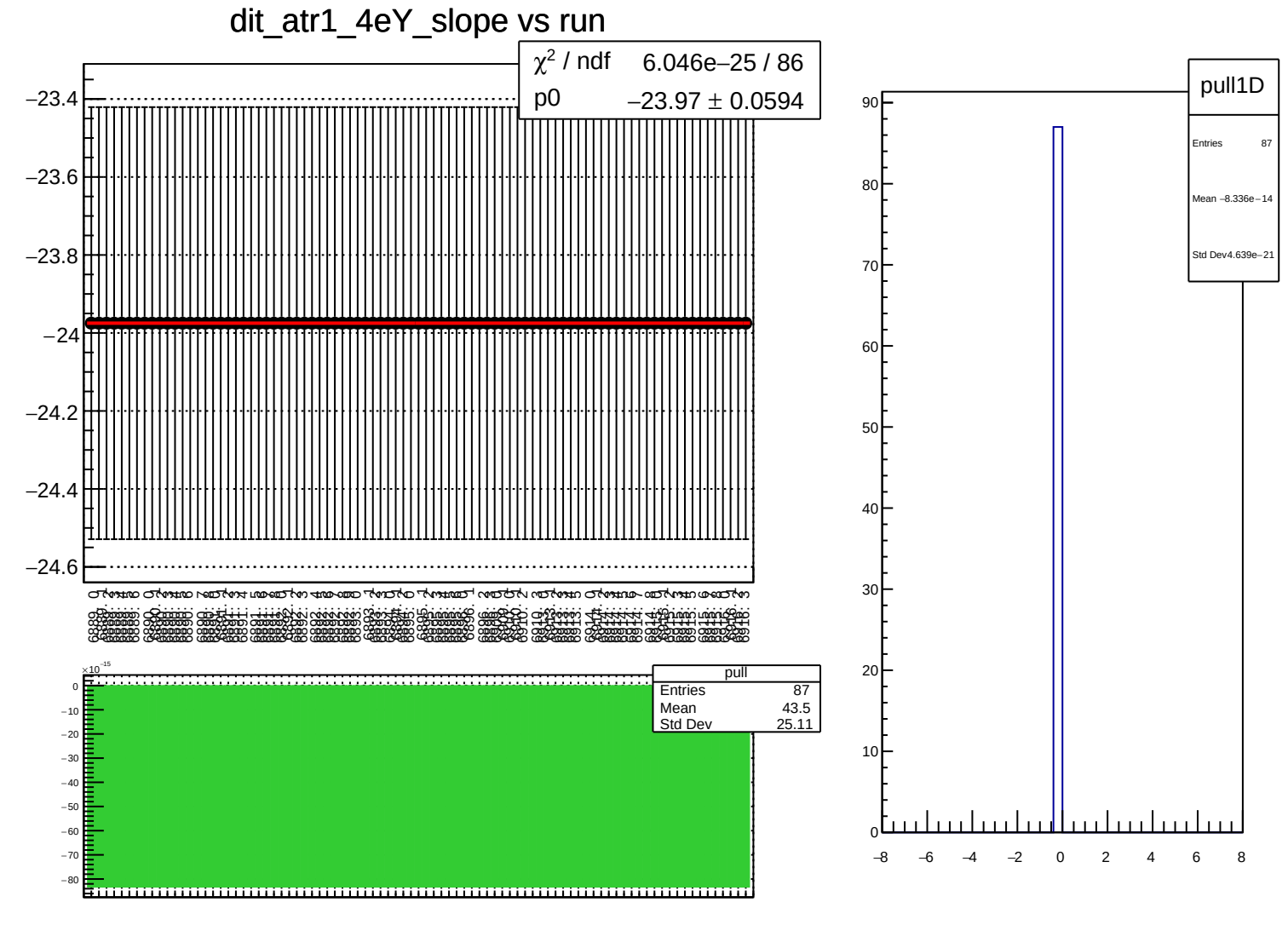

dit_atl2_4eY_slope vs run
χ² / ndf 3.596e−26 / 86
p0 144.9 ± 0.2997
148
147
146
145
144
143
142
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
0
−5
−10
−15
−20
pull1D
Entries 87
Mean −2.033e−14
Std Dev 0
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

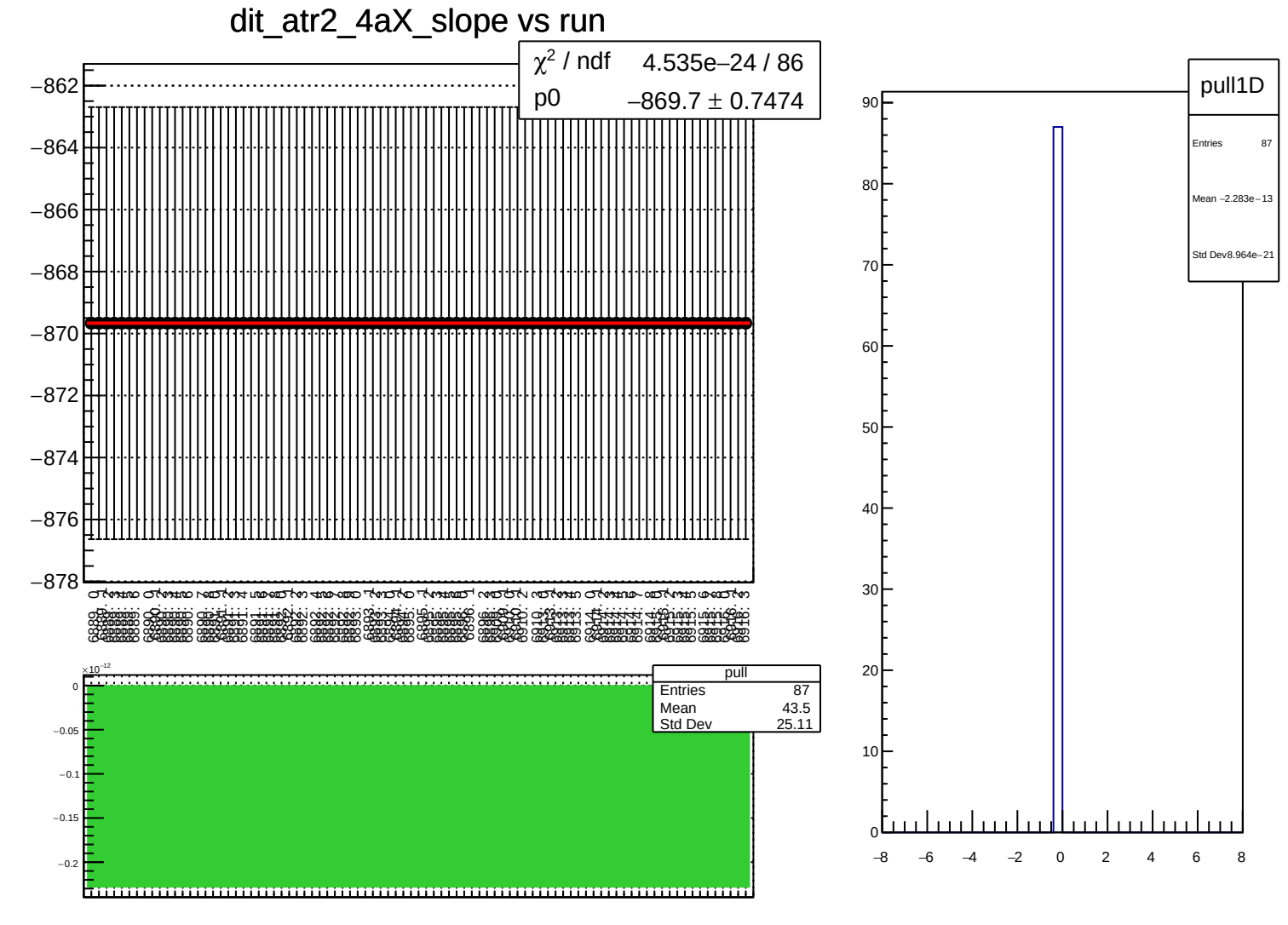

dit_atr1_4aX_slope vs run
χ² / ndf 8.213e−27 / 86
p0 −56.77 ± 0.5488
−52
−54
−56
−58
−60
−62
×10⁻¹⁵
0
−2
−4
−6
−8
−10
pull
Entries 87
Mean 43.5
Std Dev 25.11
pull1D
Entries 87
Mean −9.716e−15
Std Dev 3.176e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

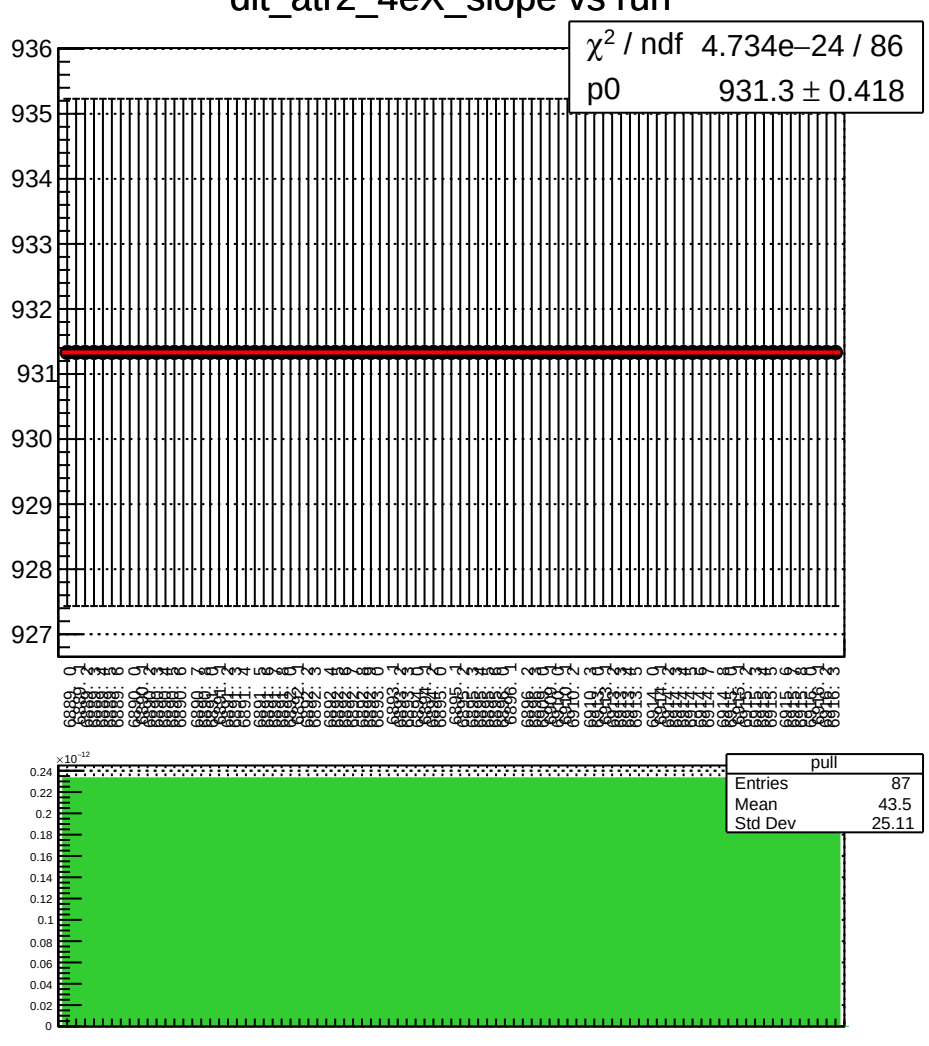

dit_atr1_4eX_slope vs run
χ² / ndf 1.423e−28 / 86
p0 −2.278 ± 0.4468
pull
Entries 87
Mean 43.5
Std Dev 25.11
pull1D
Entries 87
Mean −1.279e−15
Std Dev7.487e−23

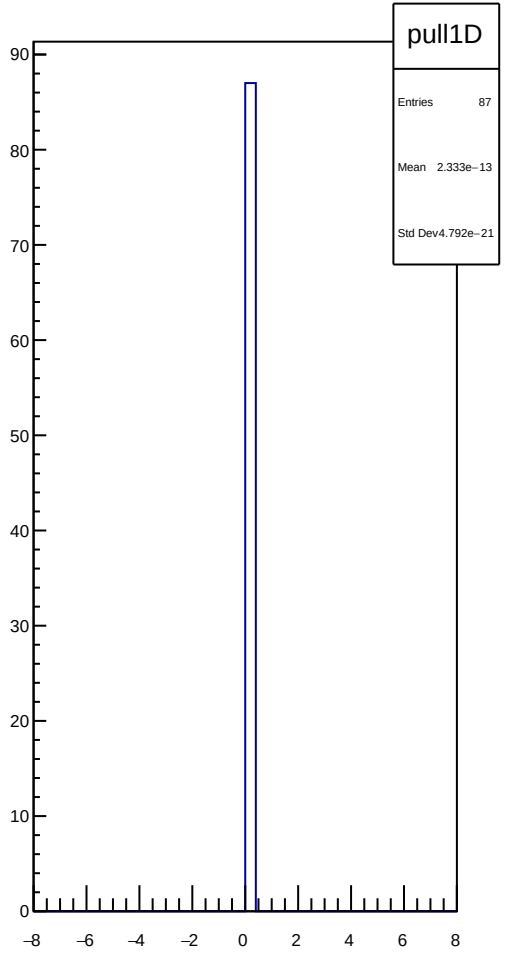

dit_atr1_11X12X_slope vs run
χ² / ndf 0 / 86
p0 −16.07 ± 0.07997
pull
Entries 87
Mean 0
Std Dev 0
pull1D
Entries 87
Mean 0
Std Dev 0

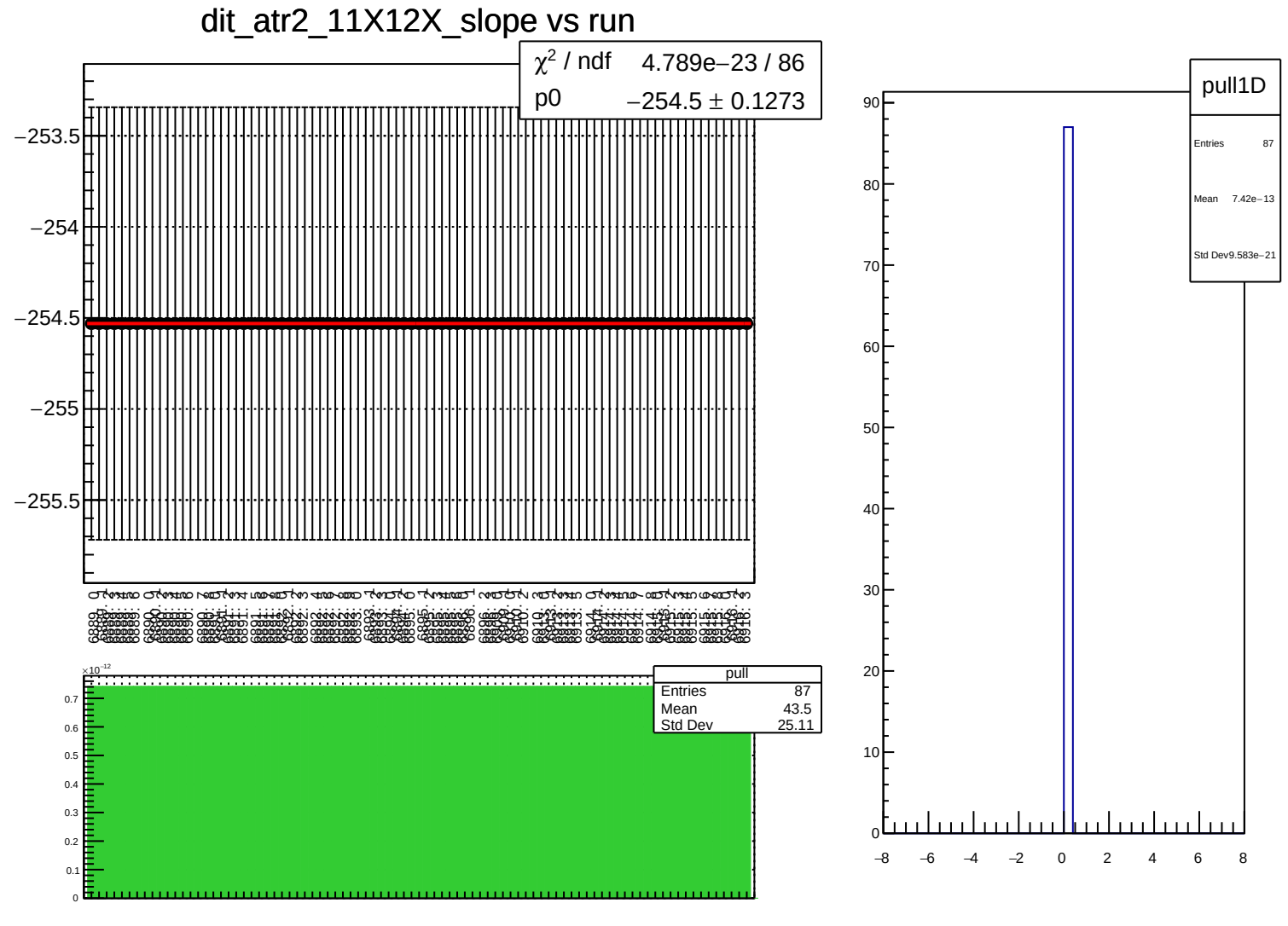

dit_atr1_4aY_slope vs run
χ² / ndf 1.389e−26 / 86
p0 13.81 ± 0.06029
14.4
14.2
14
13.8
13.6
13.4
13.2
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 87
Mean −1.264e−14
Std Dev 3.348e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

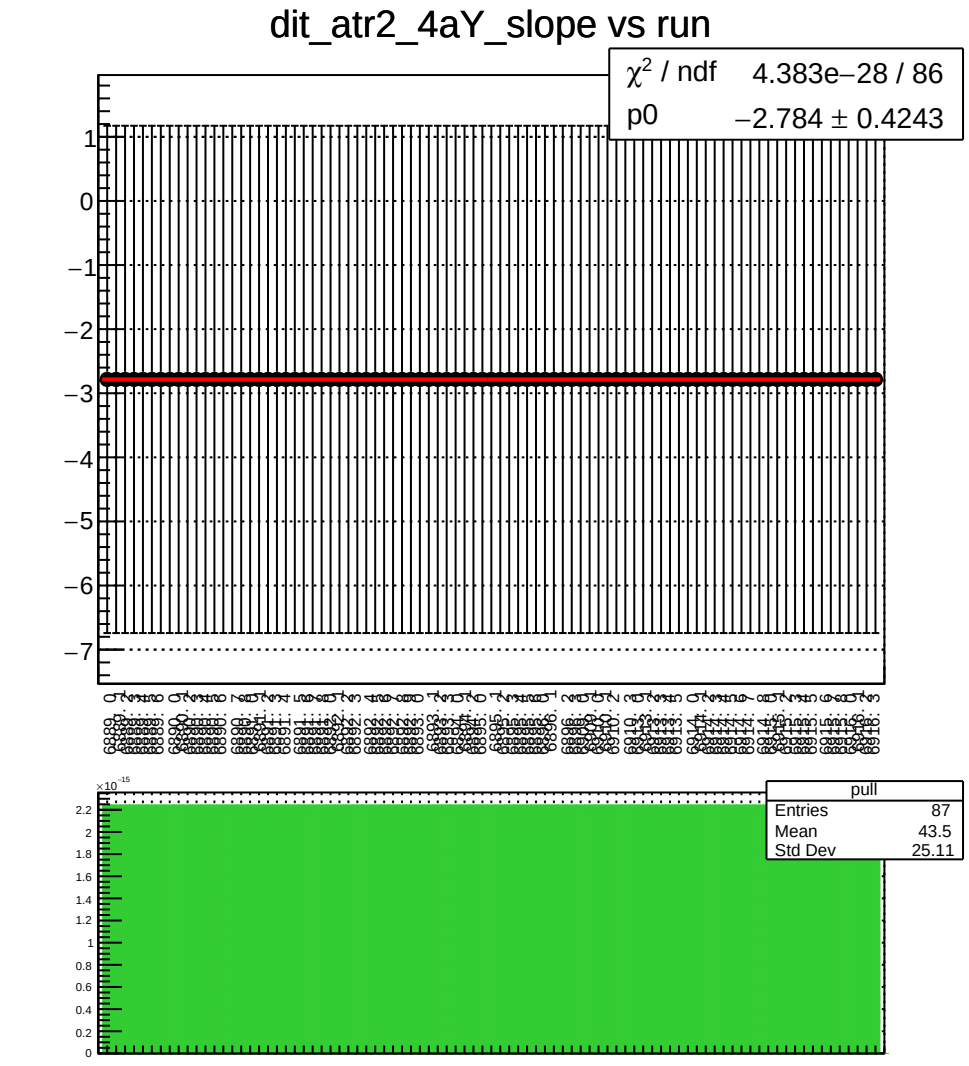

dit_atr1_4eY_slope vs run
χ² / ndf 6.046e−25 / 86
p0 −23.97 ± 0.0594
−23.4
−23.6
−23.8
−24
−24.2
−24.4
−24.6
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
−80
pull1D
Entries 87
Mean −8.336e−14
Std Dev4.639e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

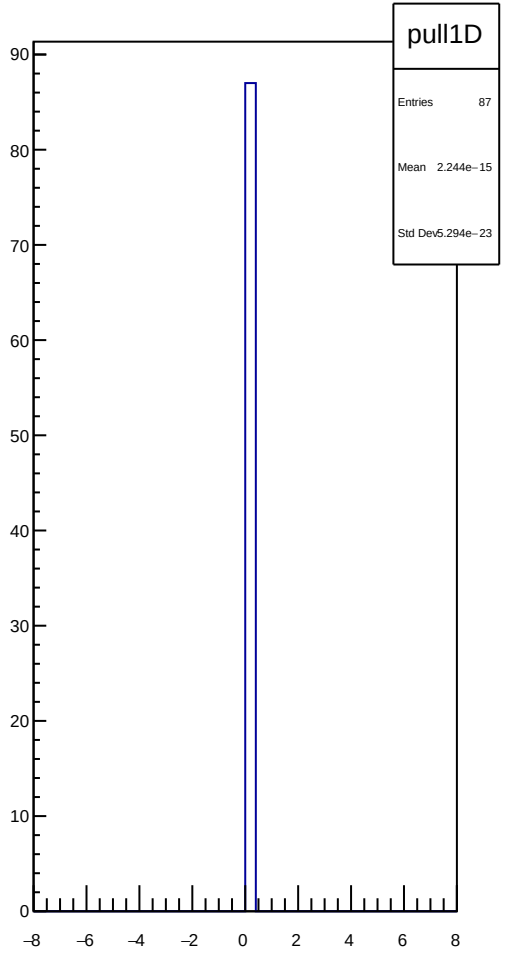

dit_atr2_4aX_slope vs run
χ² / ndf 4.535e−24 / 86
p0 −869.7 ± 0.7474
−862
−864
−866
−868
−870
−872
−874
−876
−878
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 87
Mean −2.283e−13
Std Dev8.964e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

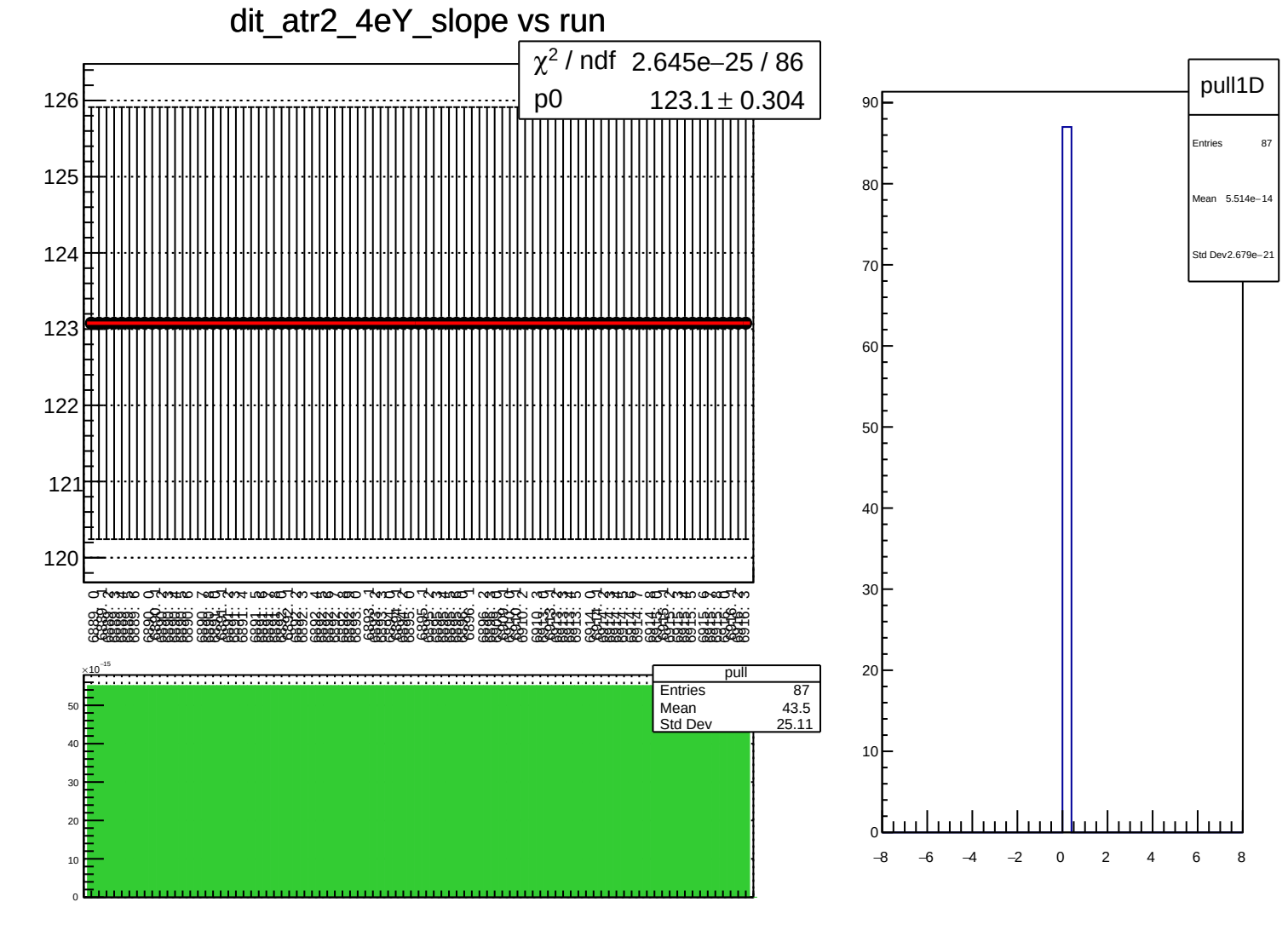

dit_atr2_4eX_slope vs run
χ^2 / ndf 4.734e−24 / 86
p0 931.3 ± 0.418
936
935
934
933
932
931
930
929
928
927
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

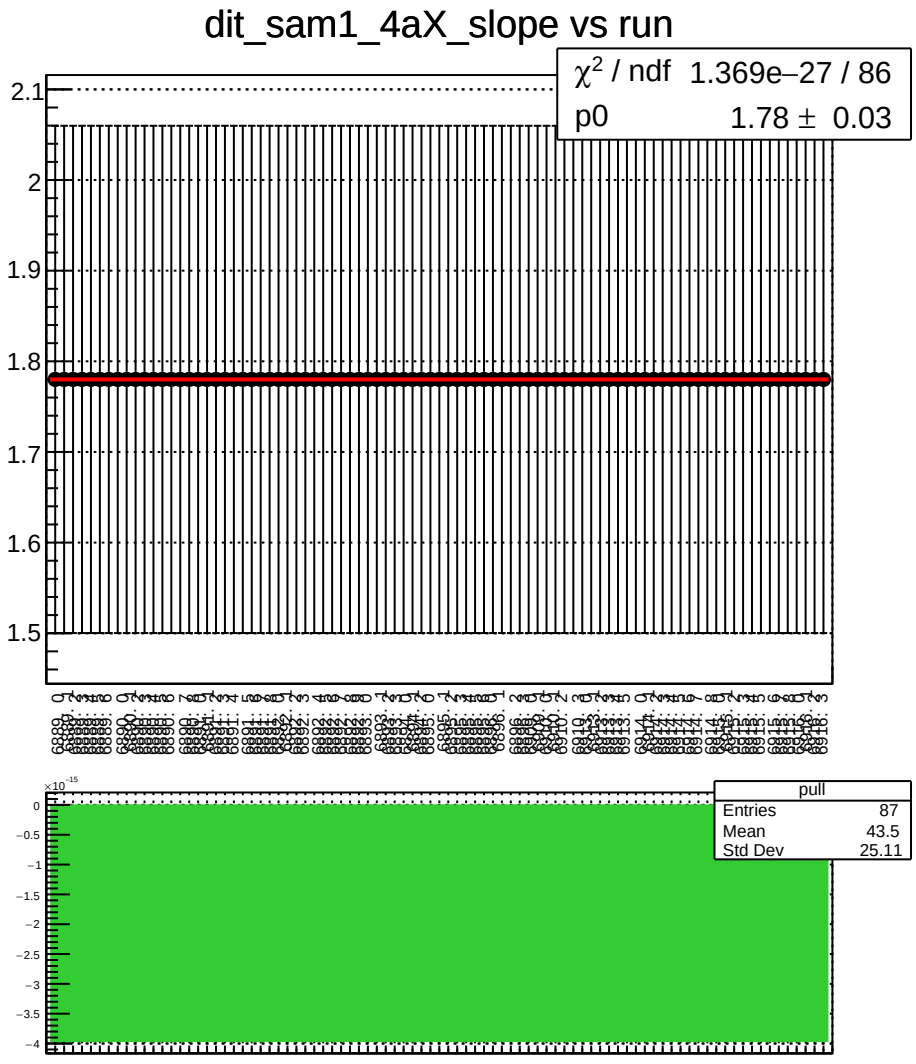

pull1D
Entries 87
Mean 2.333e−13
Std Dev 4.792e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

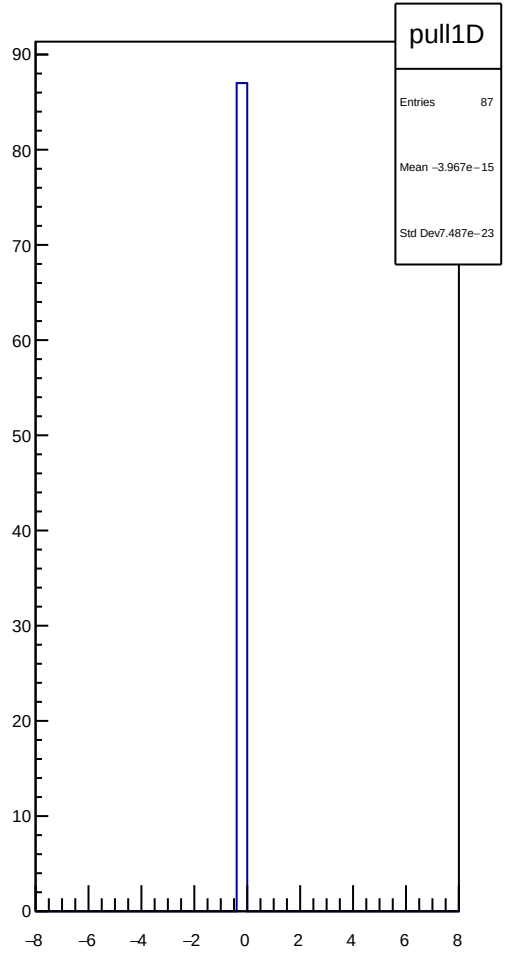

dit_atr2_11X12X_slope vs run
χ² / ndf 4.789e−23 / 86
p0 −254.5 ± 0.1273
−253.5
−254
−254.5
−255
−255.5
pull
Entries 87
Mean 43.5
Std Dev 25.11
pull1D
Entries 87
Mean 7.42e−13
Std Dev9.583e−21

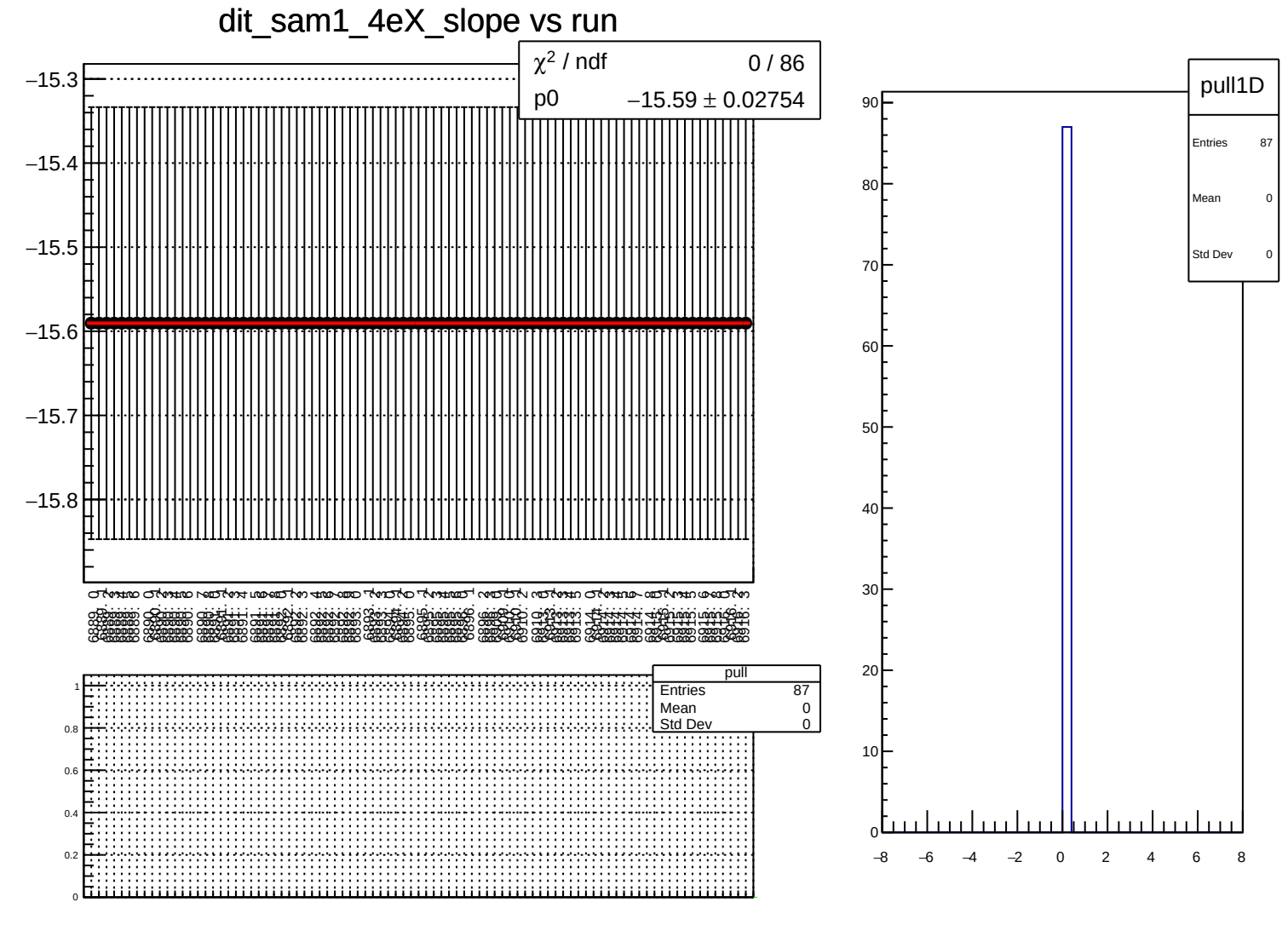

dit_atr2_4aY_slope vs run
χ² / ndf 4.383e−28 / 86
p0 −2.784 ± 0.4243
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵

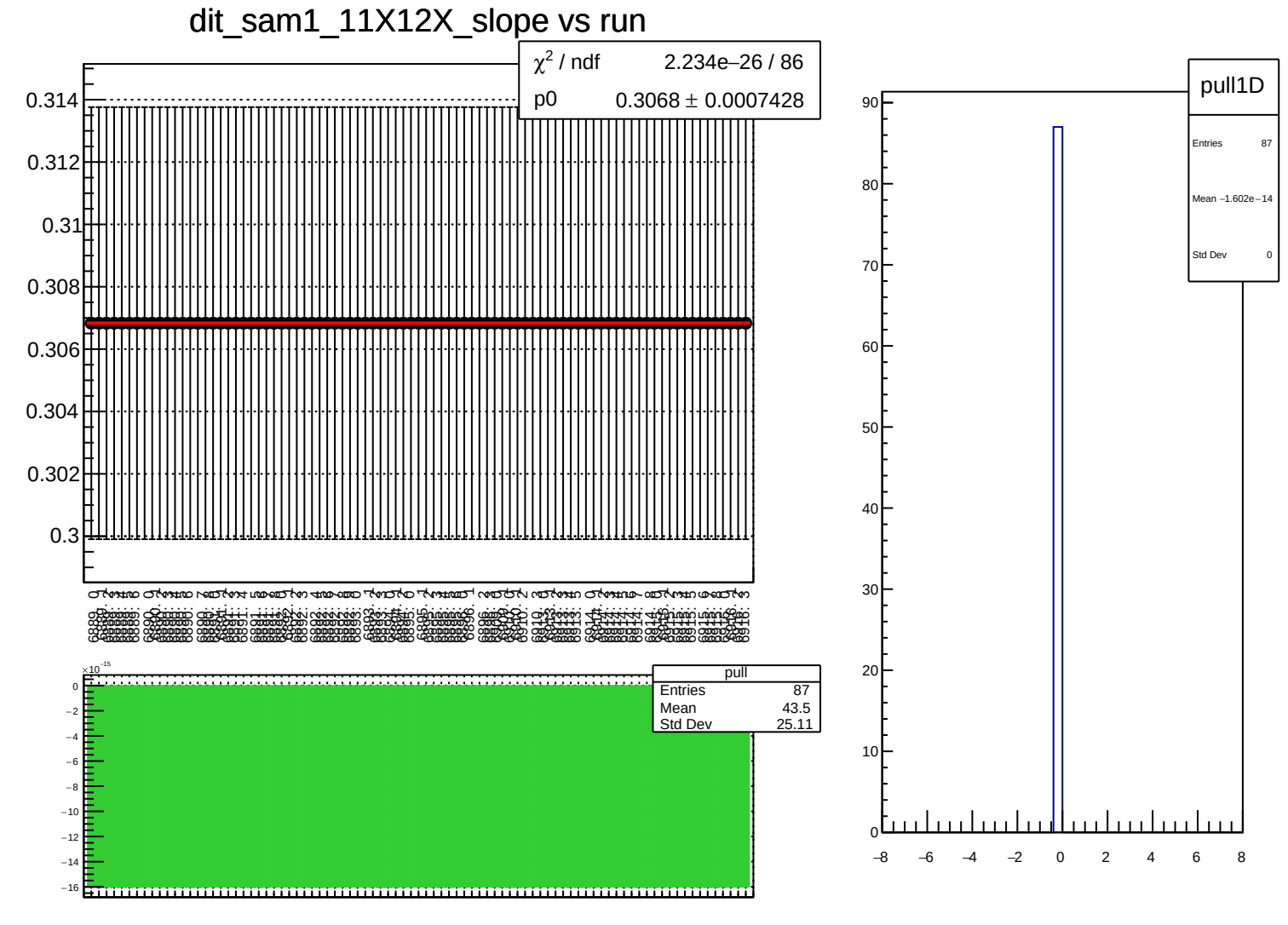

pull1D
Entries 87
Mean 2.244e−15
Std Dev 5.294e−23

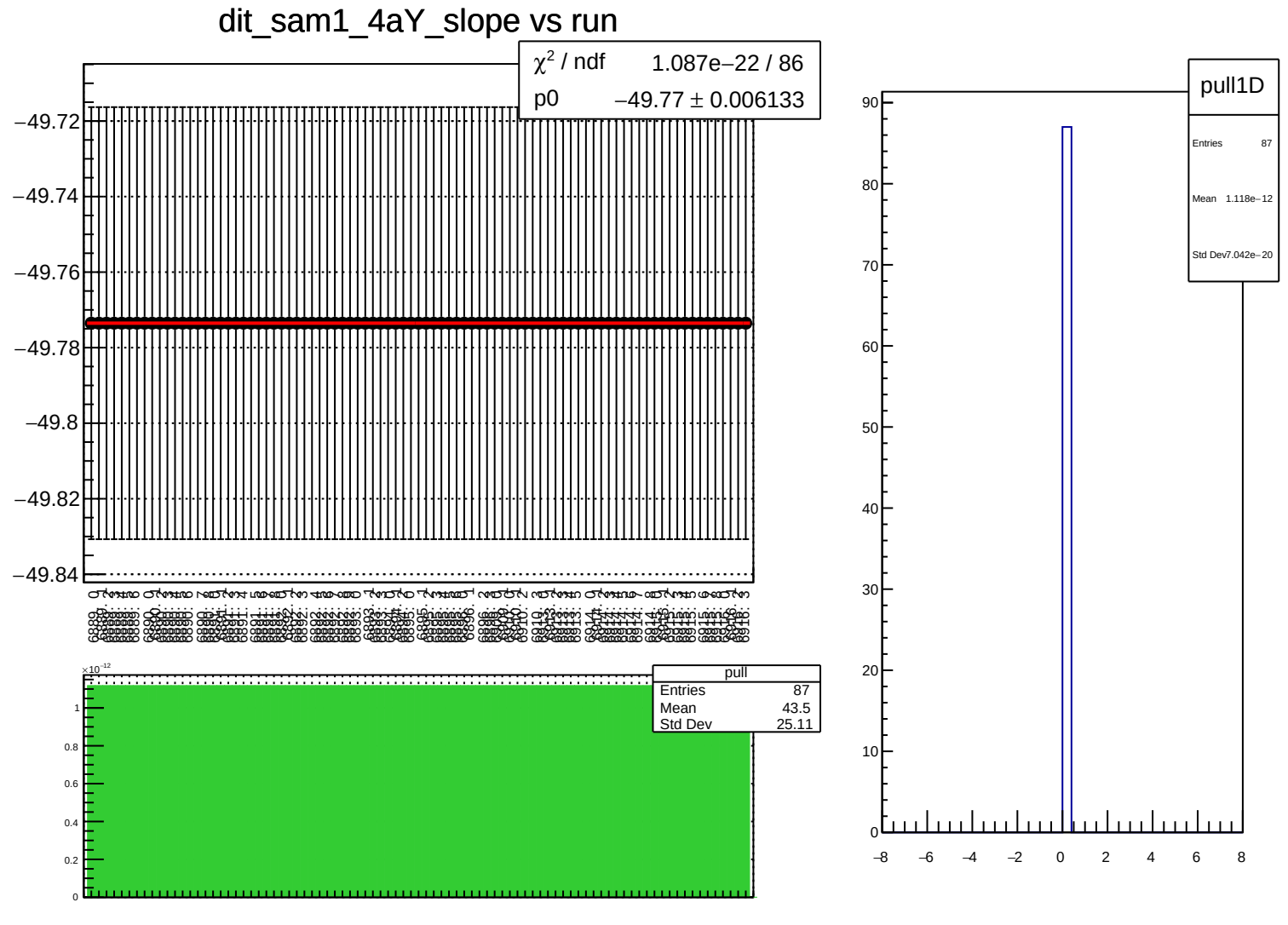

dit_atr2_4eY_slope vs run
χ^2 / ndf 2.645e−25 / 86
p0 123.1 ± 0.304
126
125
124
123
122
121
120
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
50
40
30
20
10
0
pull1D
Entries 87
Mean 5.514e−14
Std Dev2.679e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

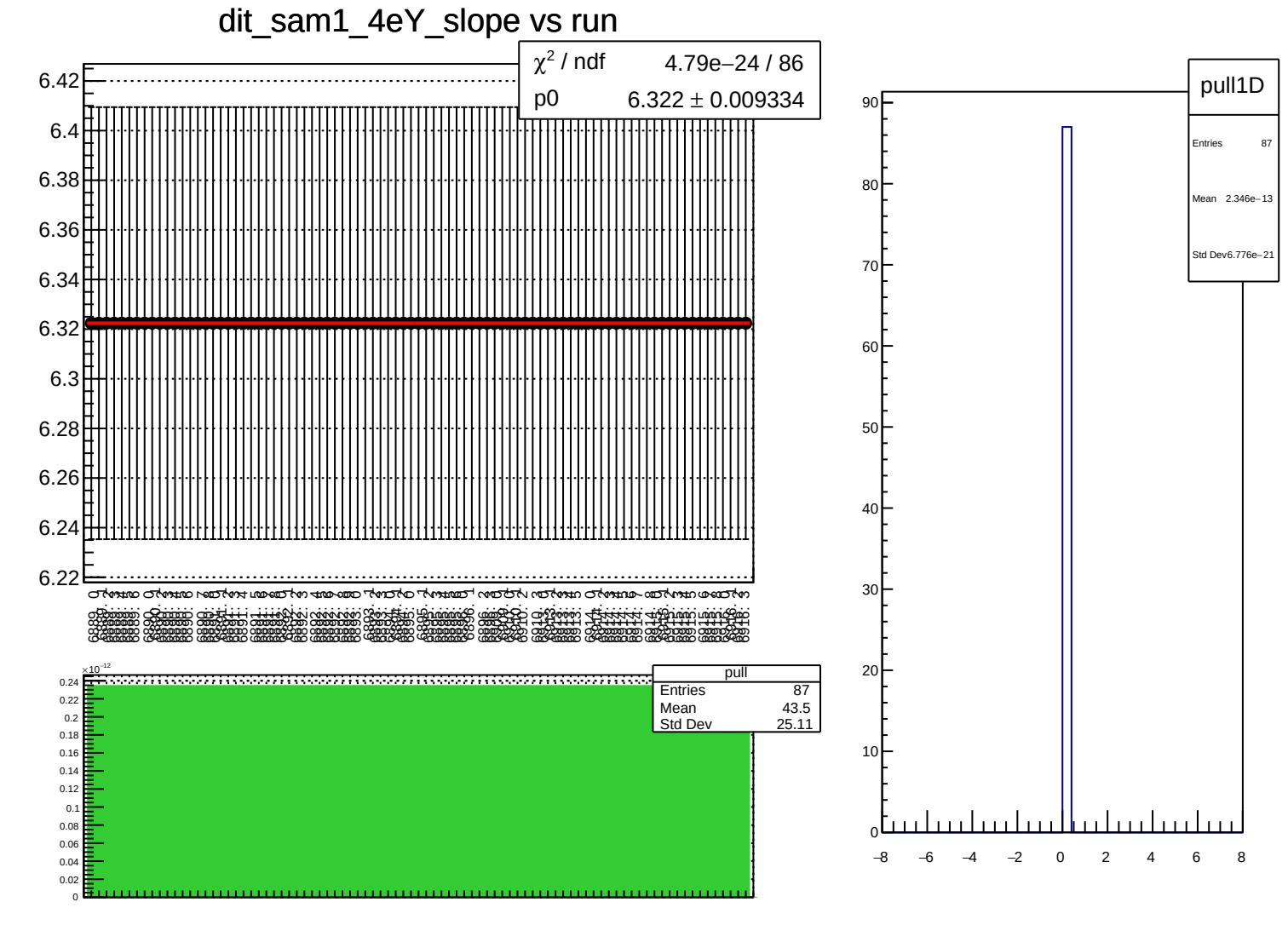

dit_sam1_4aX_slope vs run
χ^2 / ndf 1.369e−27 / 86
p0 1.78 ± 0.03
2.1
2
1.9
1.8
1.7
1.6
1.5
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10^-15
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4

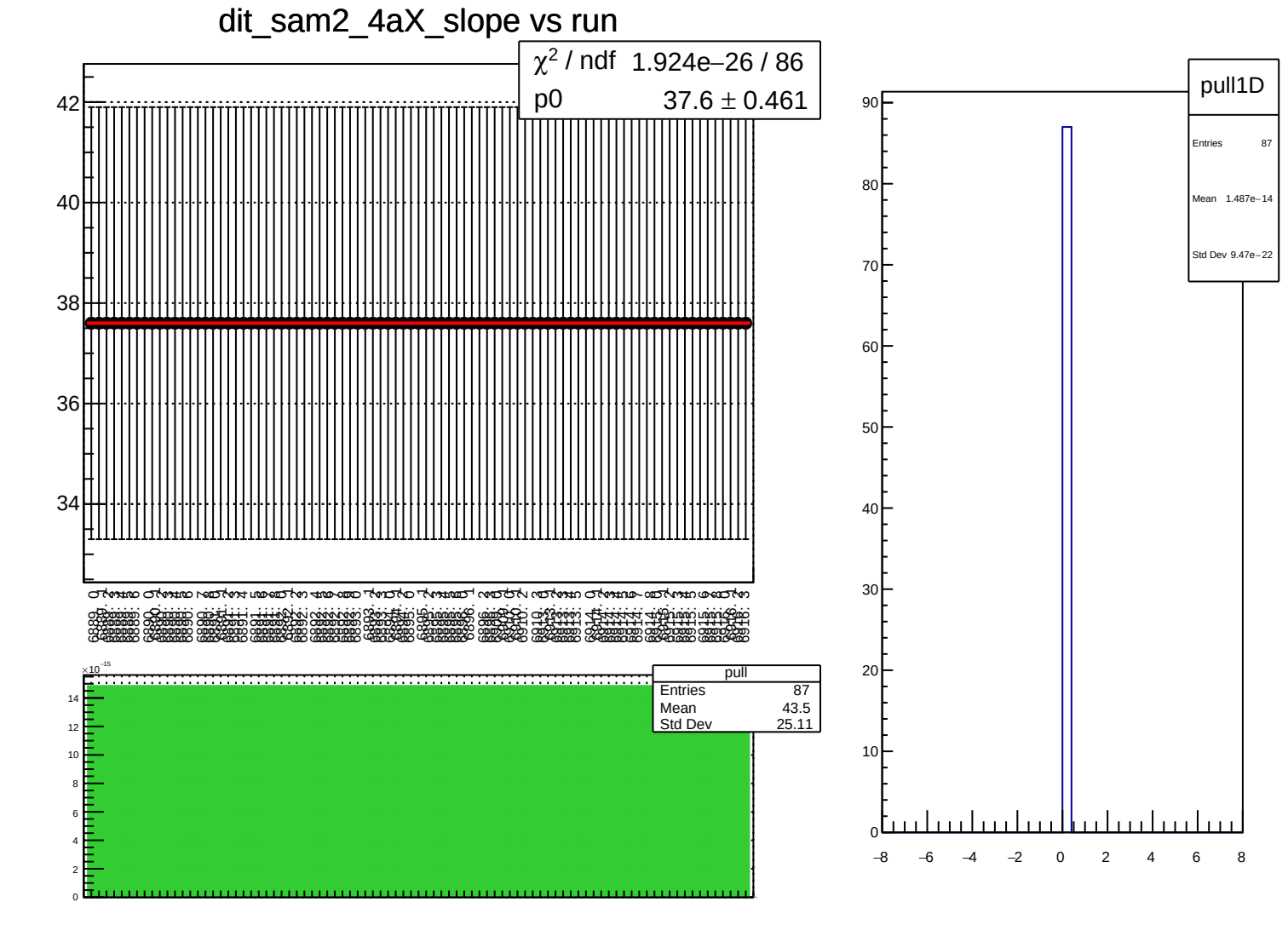

pull1D
Entries 87
Mean −3.967e−15
Std Dev7.487e−23
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

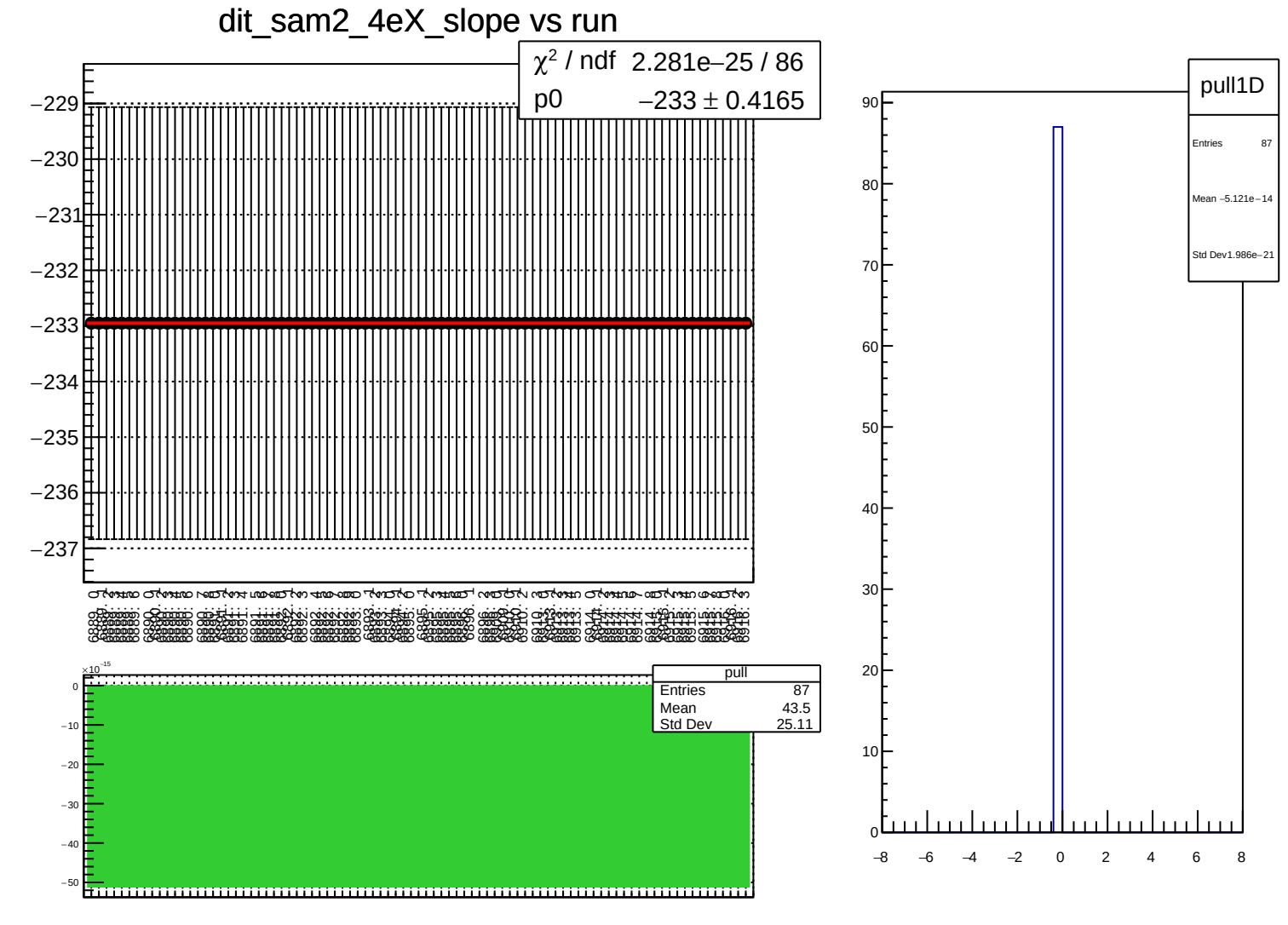

dit_sam1_4eX_slope vs run
χ² / ndf 0 / 86
p0 −15.59 ± 0.02754
−15.3
−15.4
−15.5
−15.6
−15.7
−15.8
pull
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 87
Mean 0
Std Dev 0
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

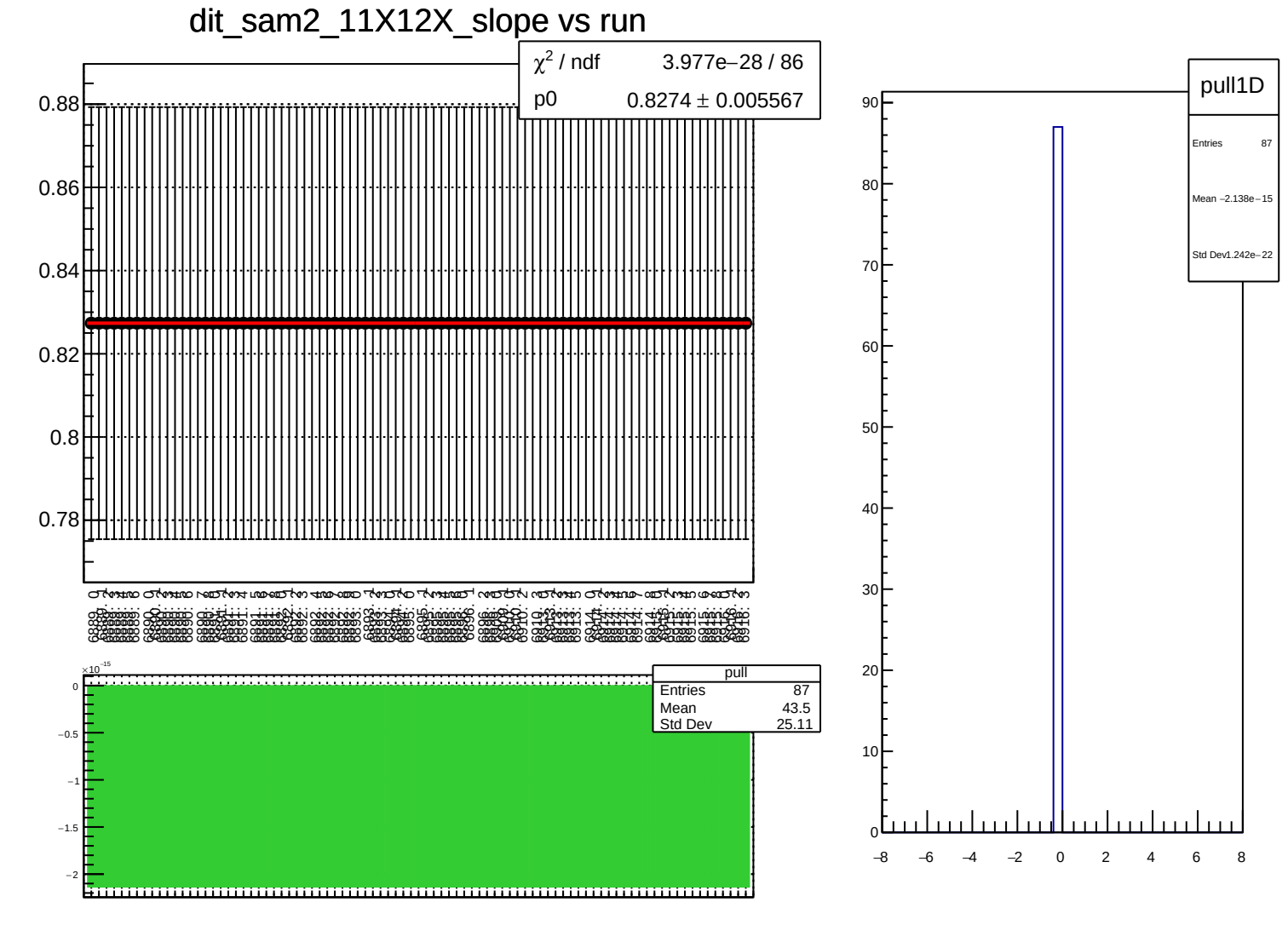

dit_sam1_11X12X_slope vs run
χ² / ndf 2.234e−26 / 86
p0 0.3068 ± 0.0007428
0.314
0.312
0.31
0.308
0.306
0.304
0.302
0.3
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
pull1D
Entries 87
Mean −1.602e−14
Std Dev 0

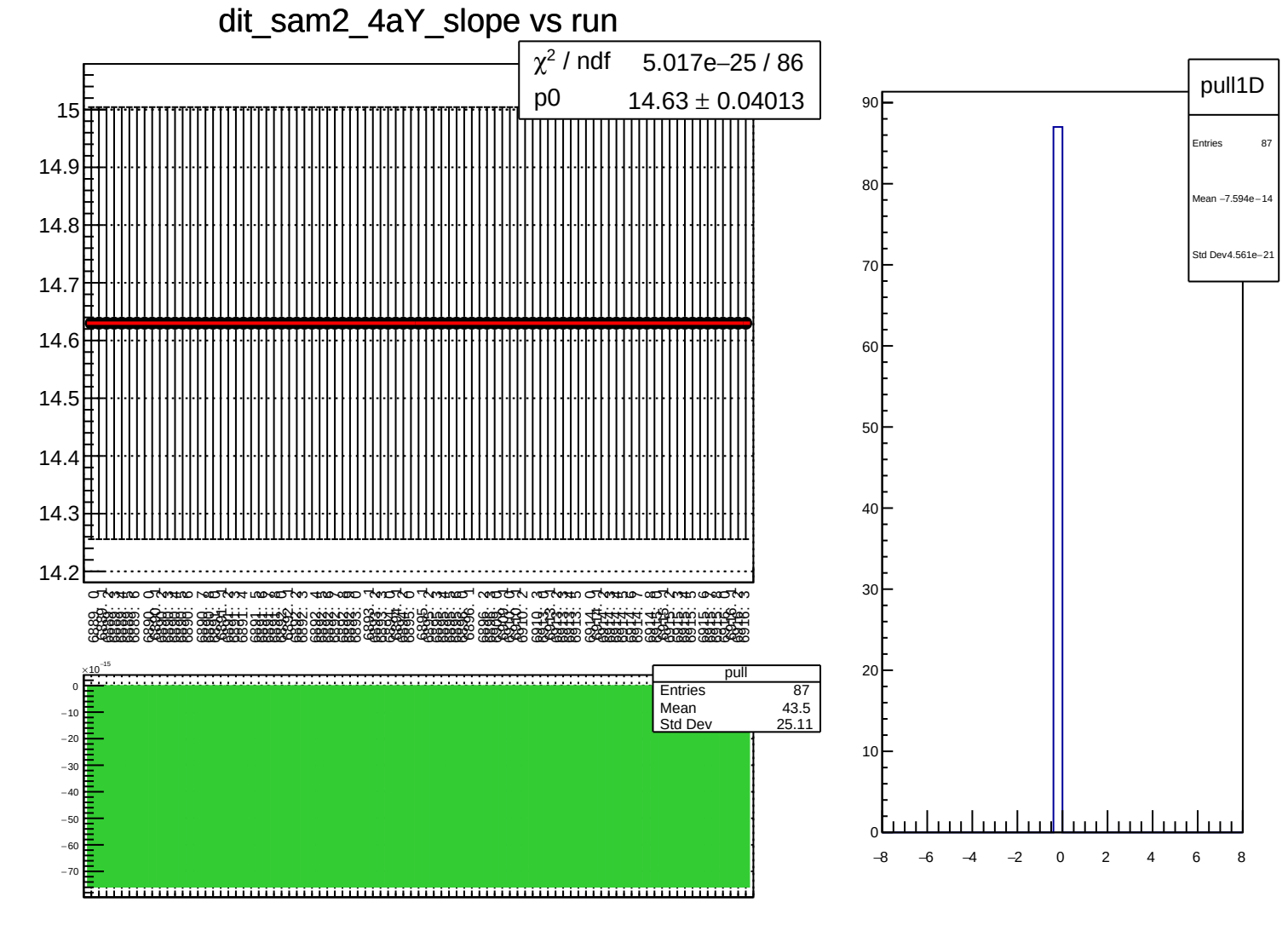

dit_sam1_4aY_slope vs run
χ² / ndf 1.087e−22 / 86
p0 −49.77 ± 0.006133
−49.72
−49.74
−49.76
−49.78
−49.8
−49.82
−49.84
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 87
Mean 1.118e−12
Std Dev7.042e−20
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

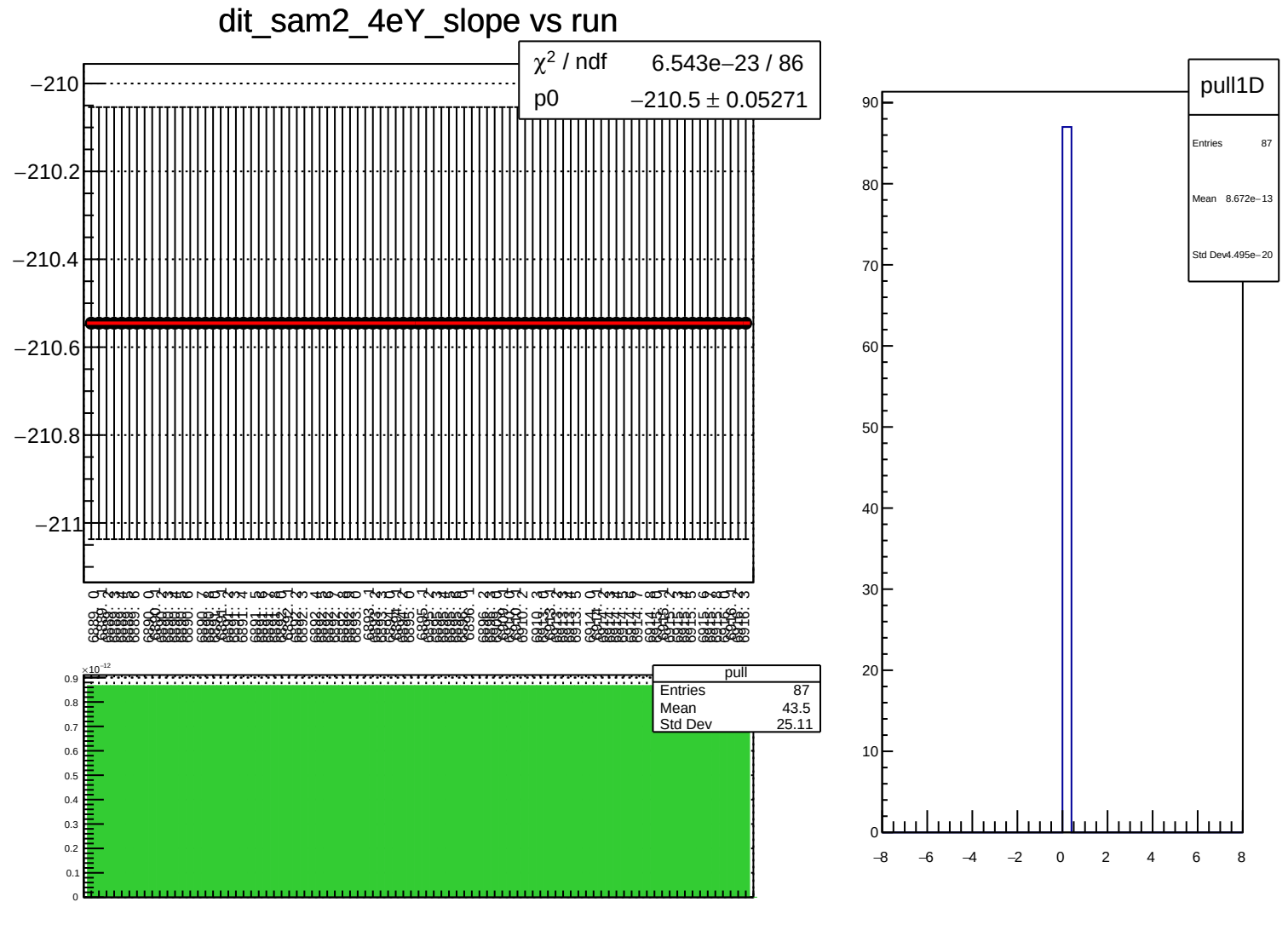

dit_sam1_4eY_slope vs run
χ² / ndf 4.79e−24 / 86
p0 6.322 ± 0.009334
6.42
6.4
6.38
6.36
6.34
6.32
6.3
6.28
6.26
6.24
6.22
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull1D
Entries 87
Mean 2.346e−13
Std Dev6.776e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

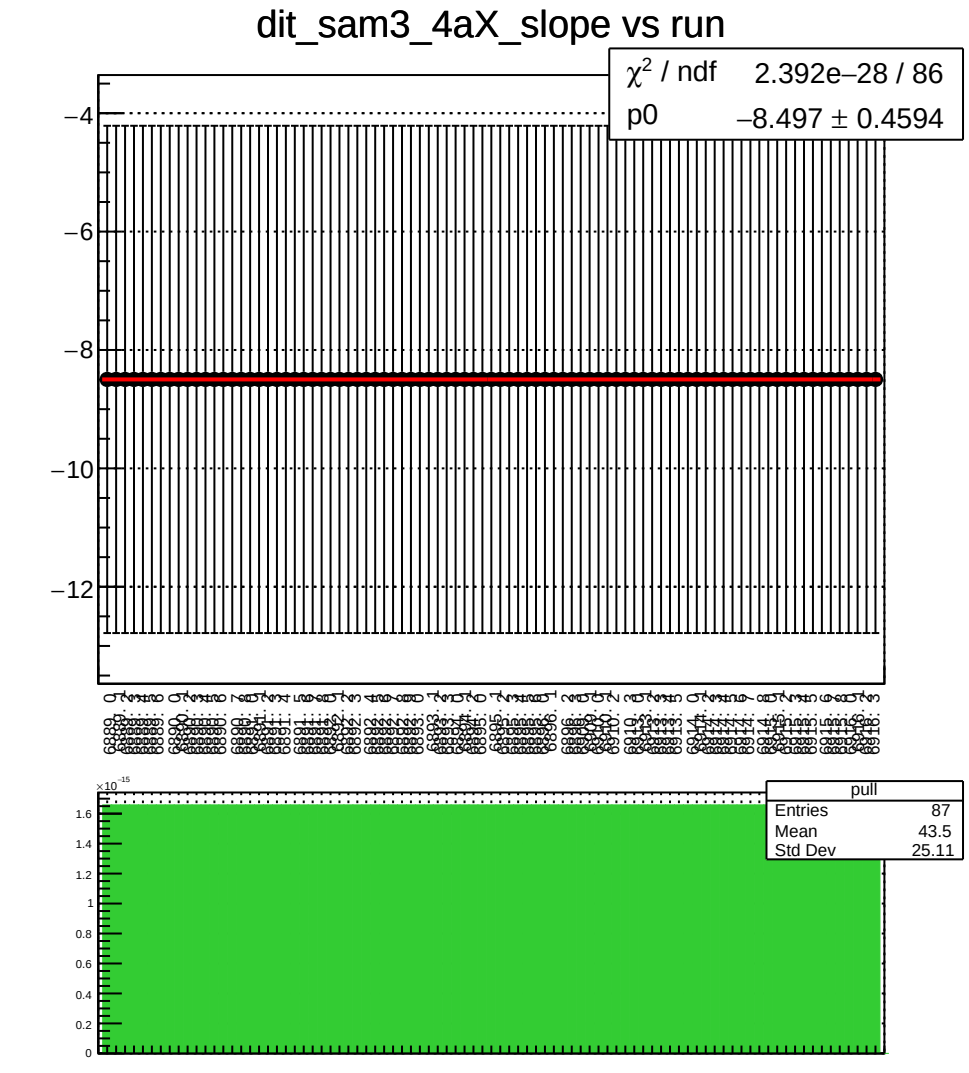

dit_sam2_4aX_slope vs run
χ² / ndf 1.924e−26 / 86
p0 37.6 ± 0.461
42
40
38
36
34
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
14
12
10
8
6
4
2
0
pull1D
Entries 87
Mean 1.487e−14
Std Dev 9.47e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

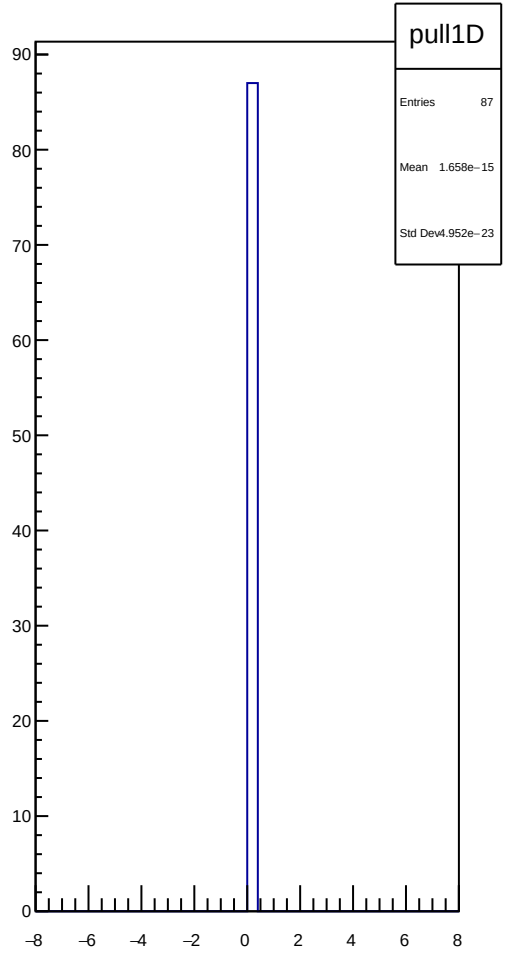

dit_sam2_4eX_slope vs run
χ² / ndf 2.281e−25 / 86
p0 −233 ± 0.4165
−229
−230
−231
−232
−233
−234
−235
−236
−237
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
0
−10
−20
−30
−40
−50
pull1D
Entries 87
Mean −5.121e−14
Std Dev1.986e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

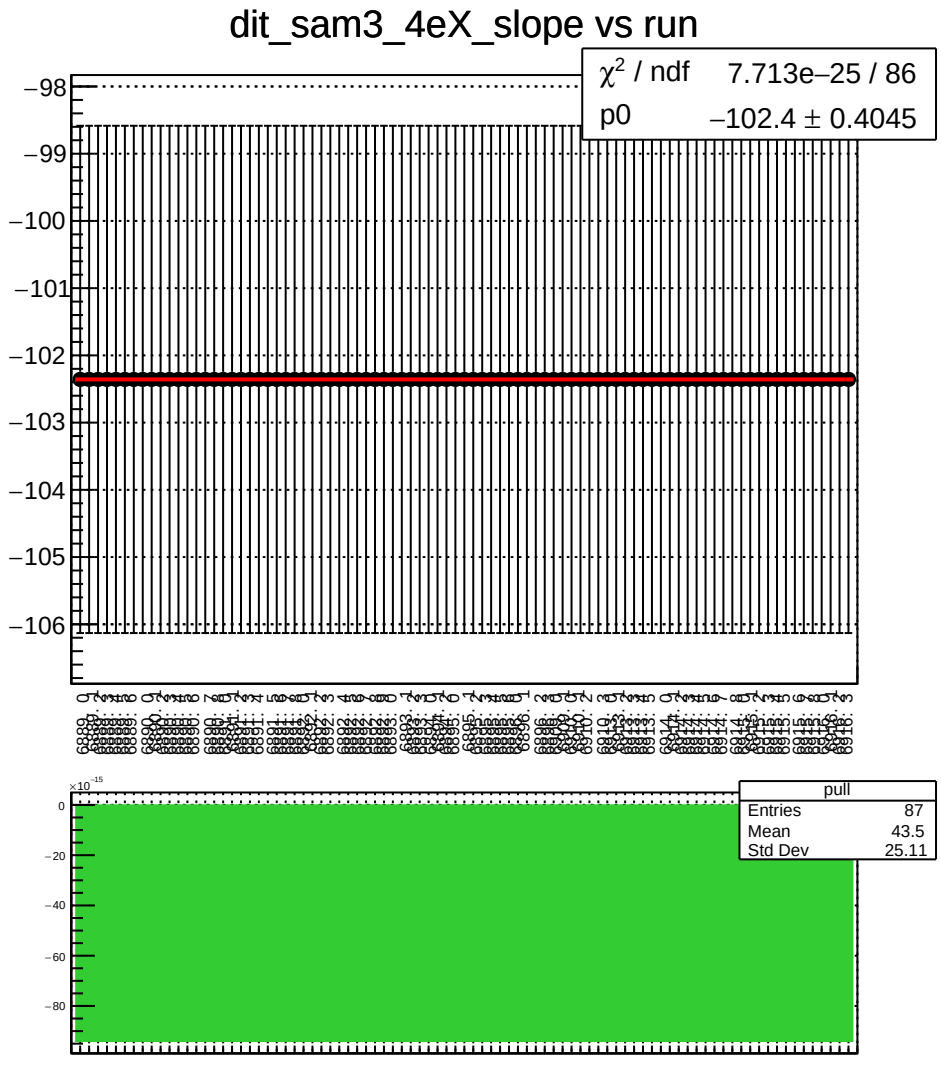

dit_sam2_11X12X_slope vs run
χ² / ndf 3.977e−28 / 86
p0 0.8274 ± 0.005567
0.88
0.86
0.84
0.82
0.8
0.78
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −2.138e−15
Std Dev1.242e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

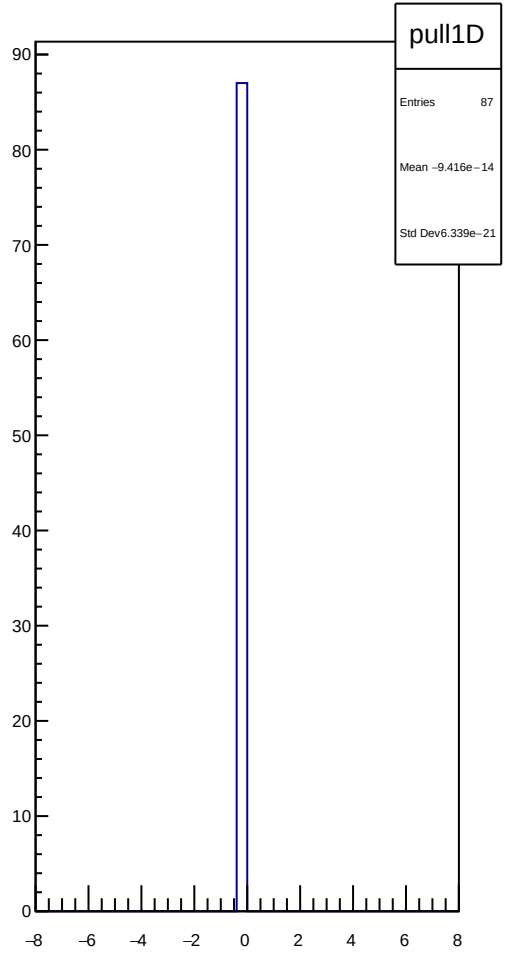

dit_sam2_4aY_slope vs run
χ² / ndf 5.017e−25 / 86
p0 14.63 ± 0.04013
15
14.9
14.8
14.7
14.6
14.5
14.4
14.3
14.2
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 87
Mean −7.594e−14
Std Dev4.561e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

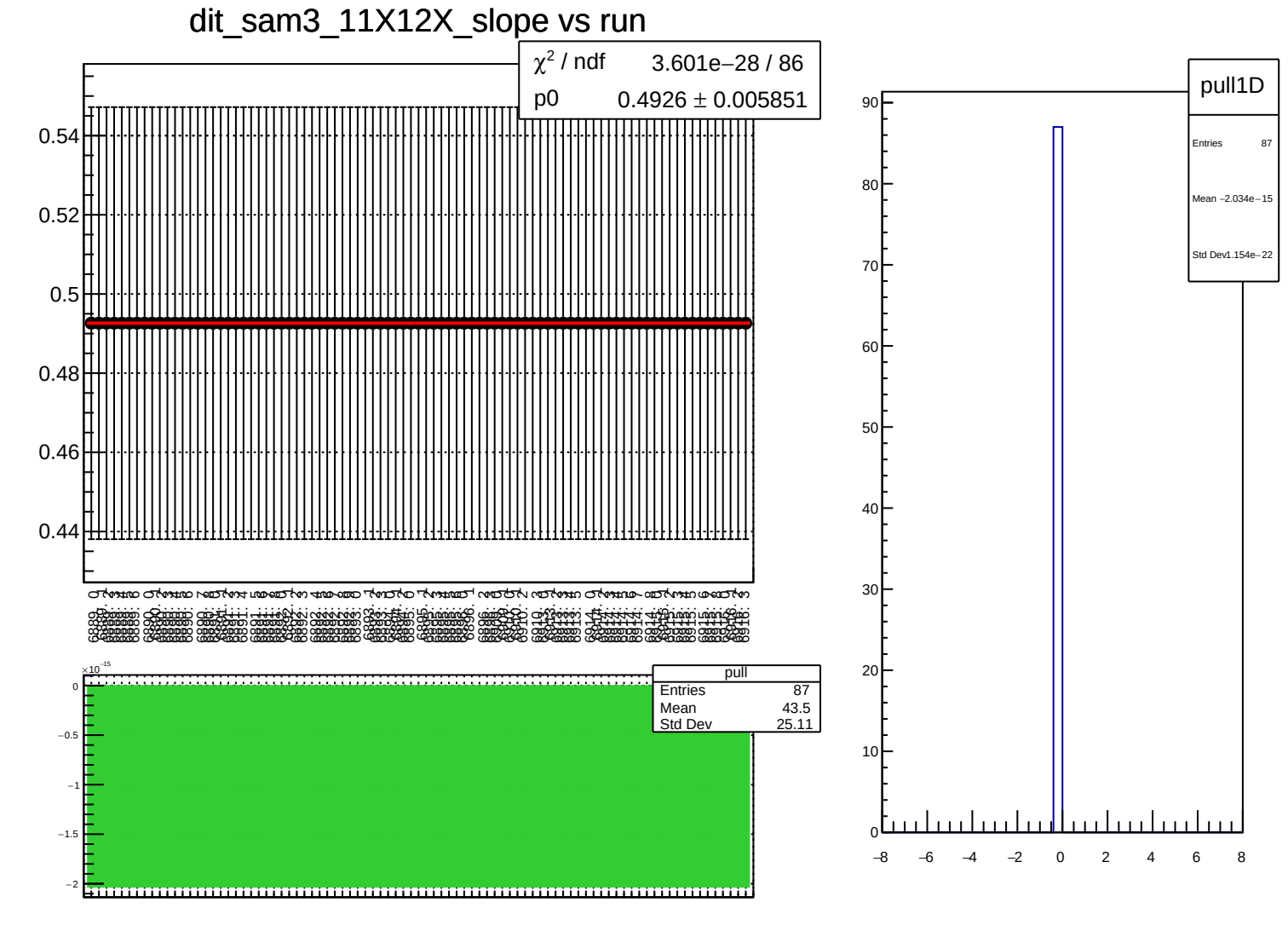

dit_sam2_4eY_slope vs run
χ² / ndf 6.543e−23 / 86
p0 −210.5 ± 0.05271
−210
−210.2
−210.4
−210.6
−210.8
−211
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
pull1D
Entries 87
Mean 8.672e−13
Std Dev4.495e−20

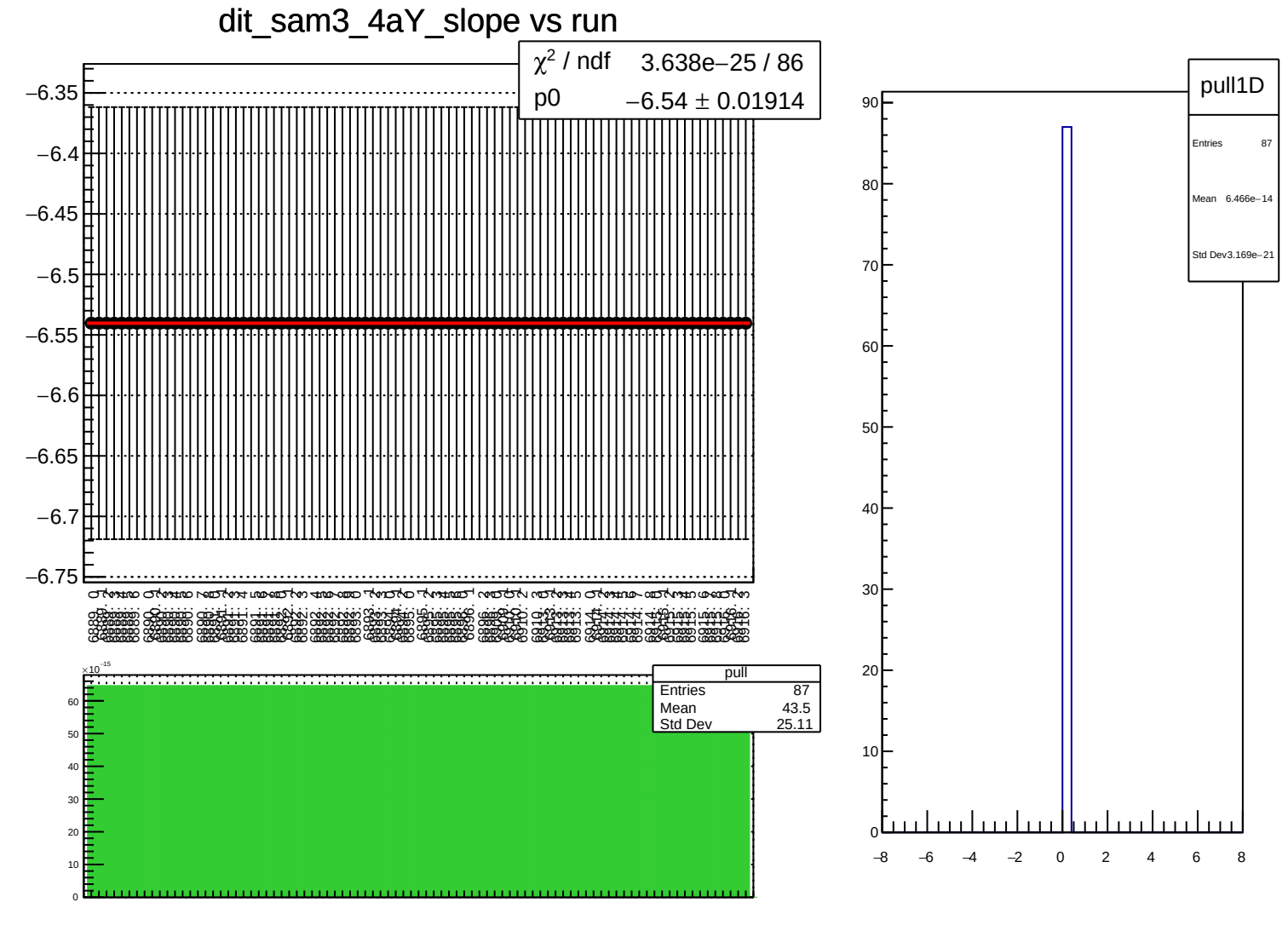

dit_sam3_4aX_slope vs run
χ² / ndf 2.392e−28 / 86
p0 −8.497 ± 0.4594
−4
−6
−8
−10
−12
×10⁻¹⁵
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 87
Mean 43.5
Std Dev 25.11

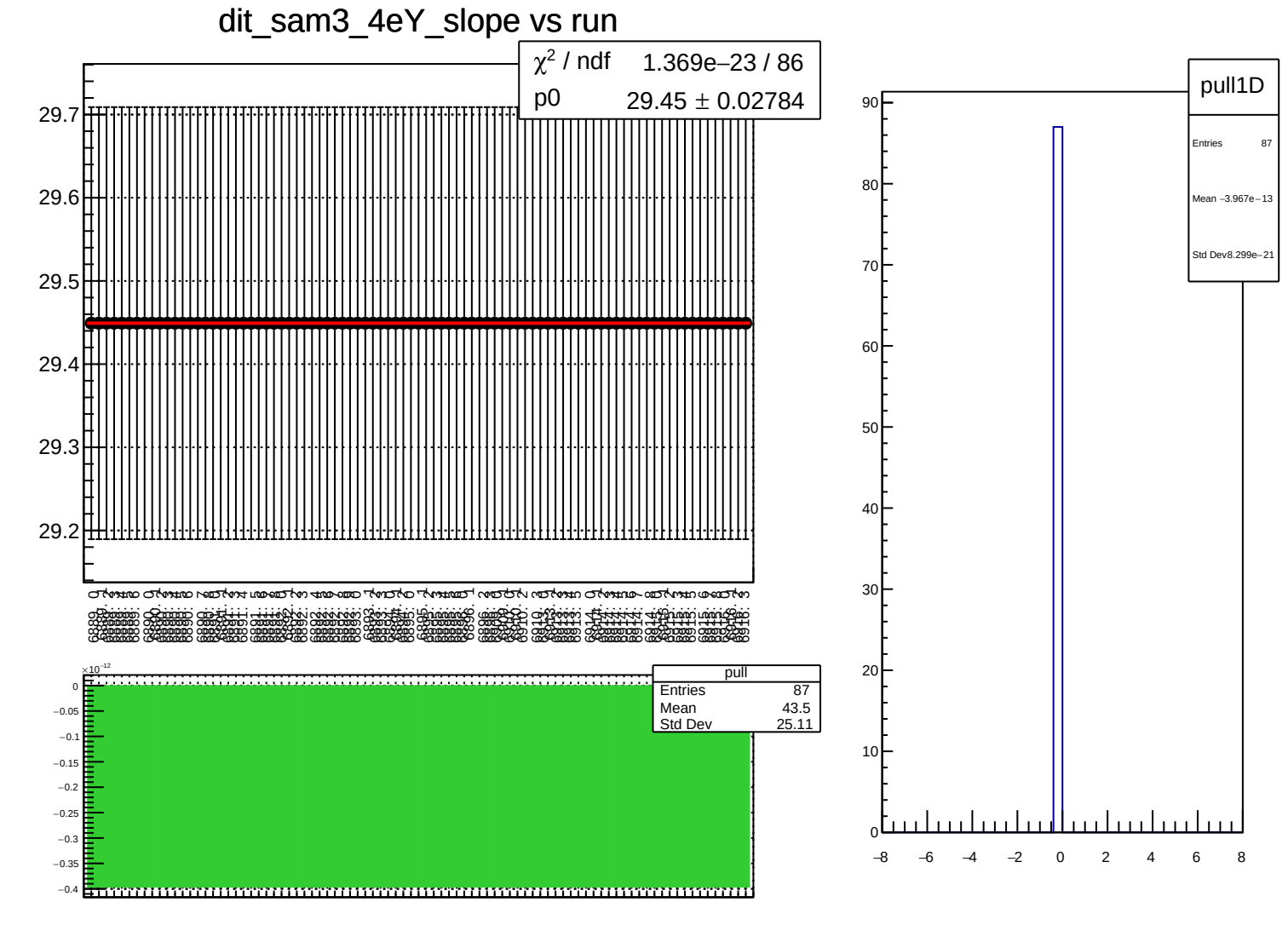

pull1D
Entries 87
Mean 1.658e−15
Std Dev 4.952e−23
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

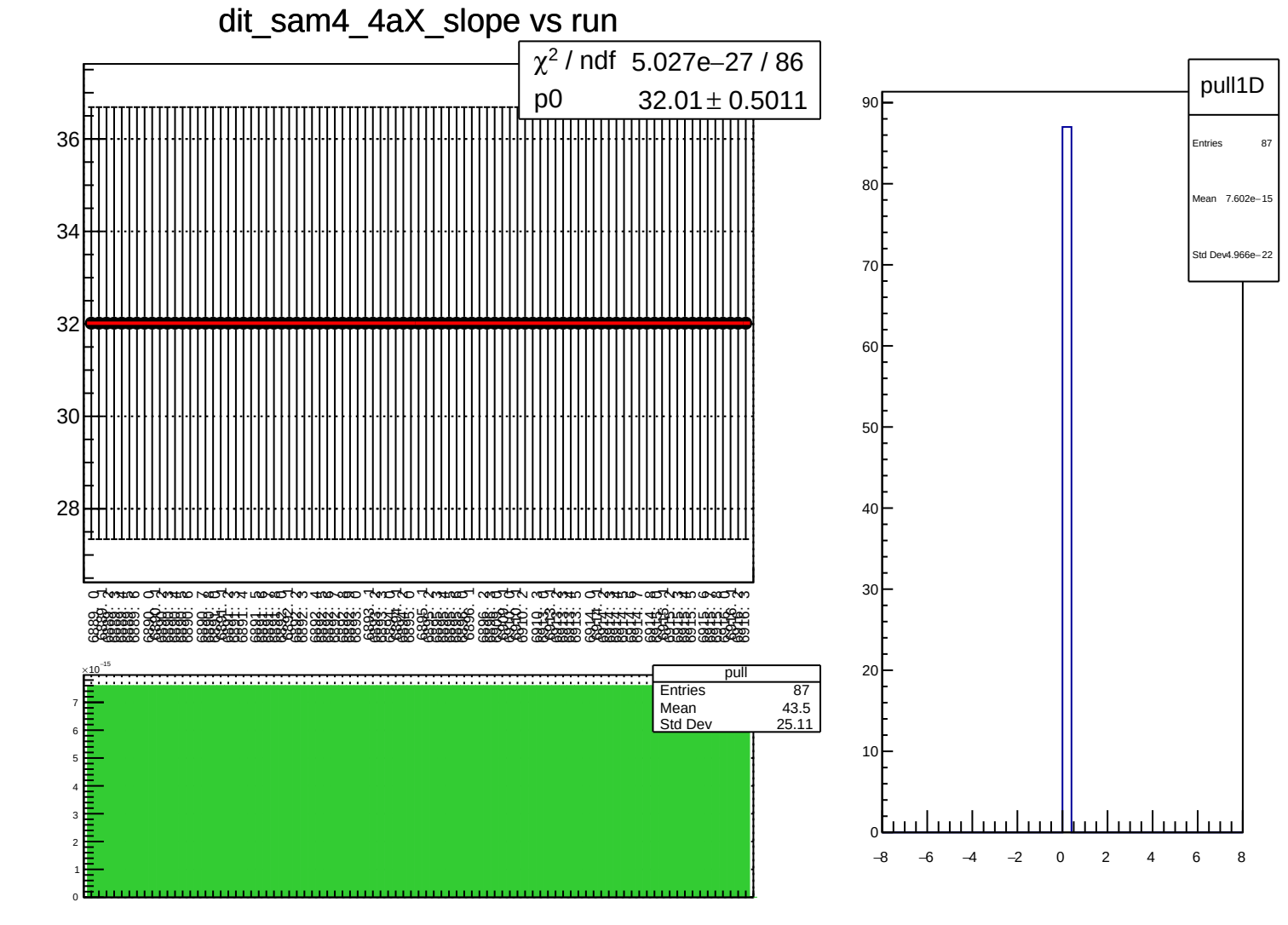

dit_sam3_4eX_slope vs run
χ² / ndf 7.713e−25 / 86
p0 −102.4 ± 0.4045
−98
−99
−100
−101
−102
−103
−104
−105
−106
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
0
−20
−40
−60
−80

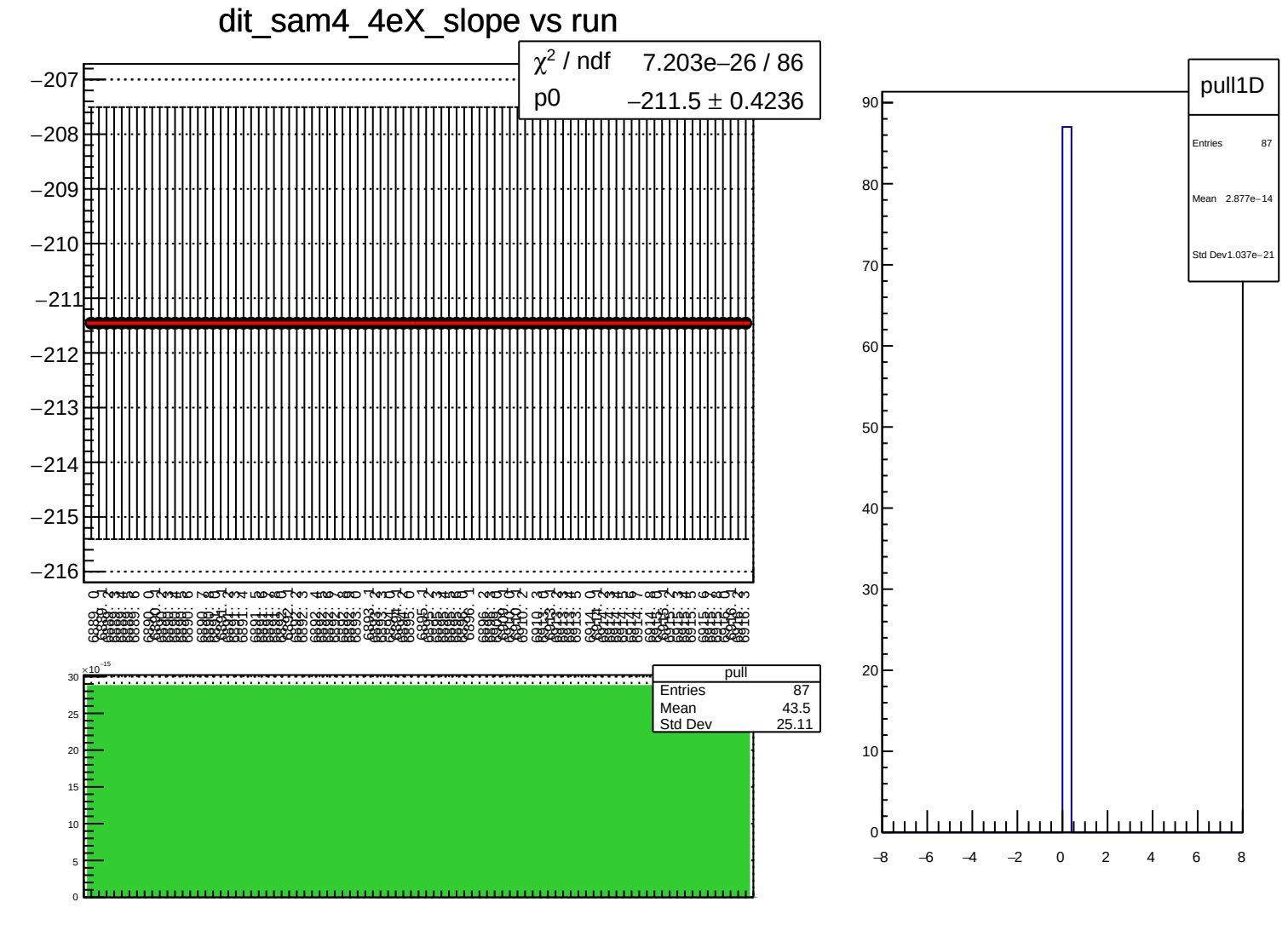

pull1D
Entries 87
Mean −9.416e−14
Std Dev6.339e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

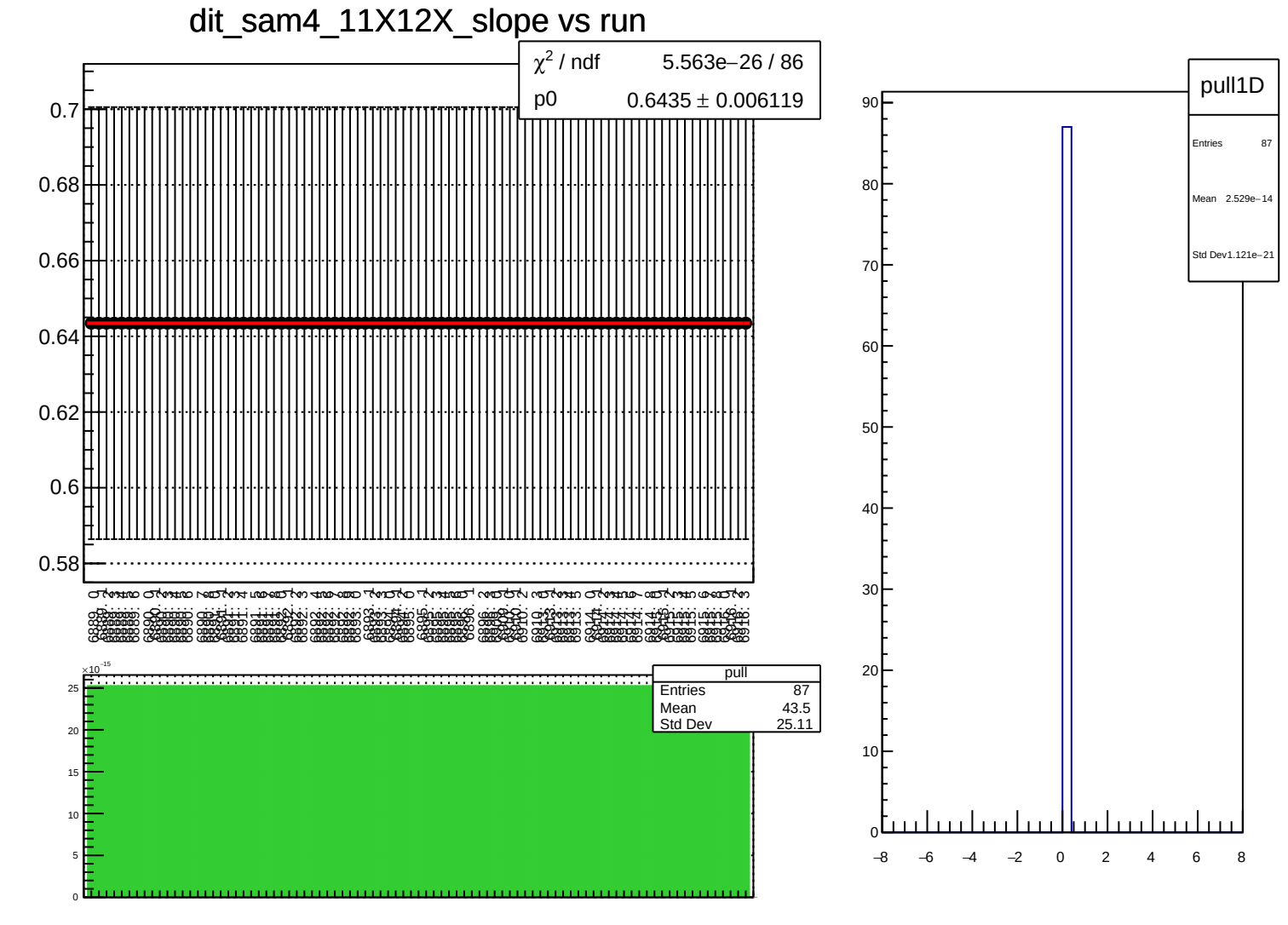

dit_sam3_11X12X_slope vs run
χ² / ndf 3.601e−28 / 86
p0 0.4926 ± 0.005851
0.54
0.52
0.5
0.48
0.46
0.44
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −2.034e−15
Std Dev1.154e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

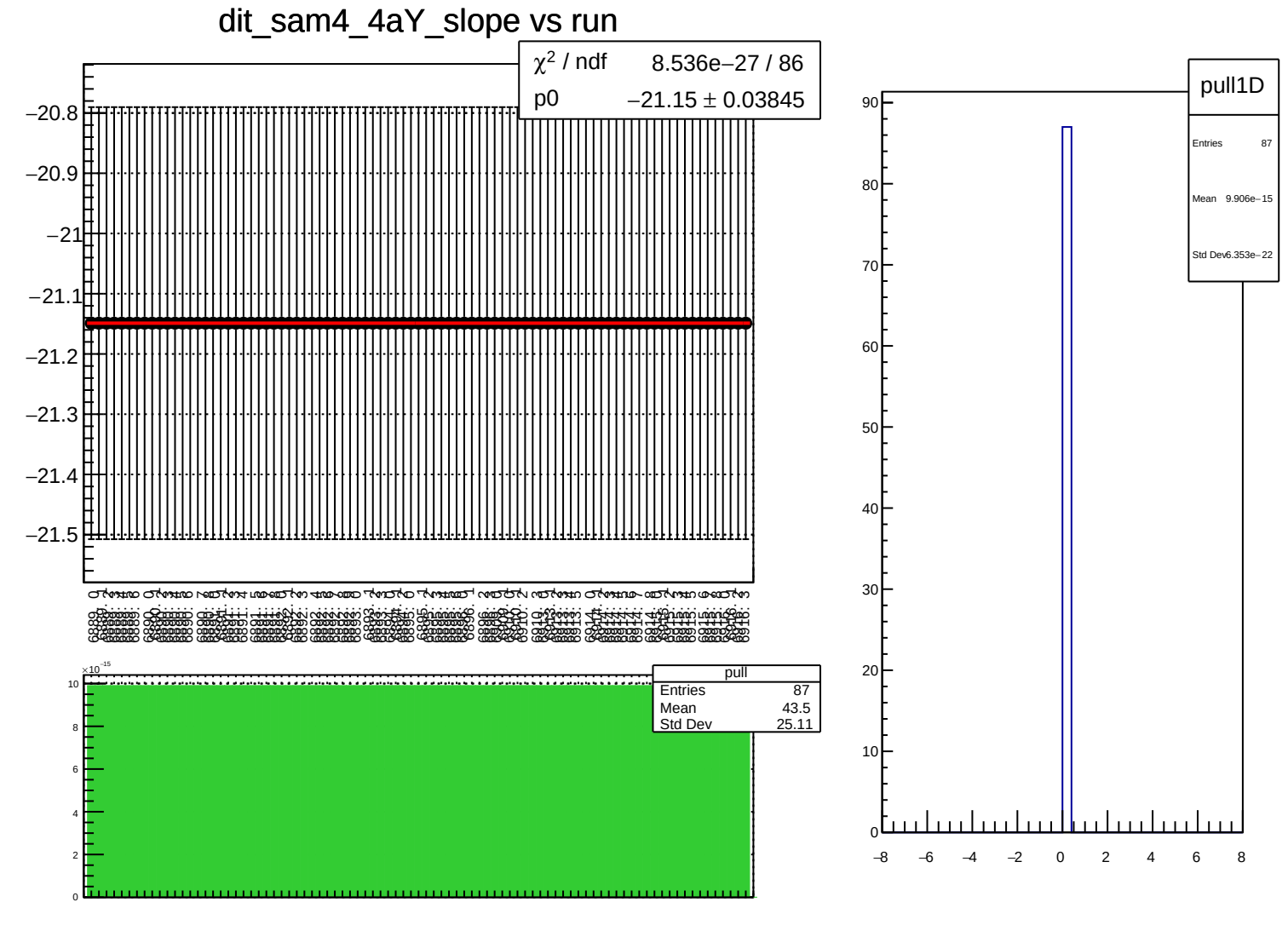

dit_sam3_4aY_slope vs run
χ² / ndf 3.638e−25 / 86
p0 −6.54 ± 0.01914
−6.35
−6.4
−6.45
−6.5
−6.55
−6.6
−6.65
−6.7
−6.75
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
60
50
40
30
20
10
0
pull1D
Entries 87
Mean 6.466e−14
Std Dev3.169e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

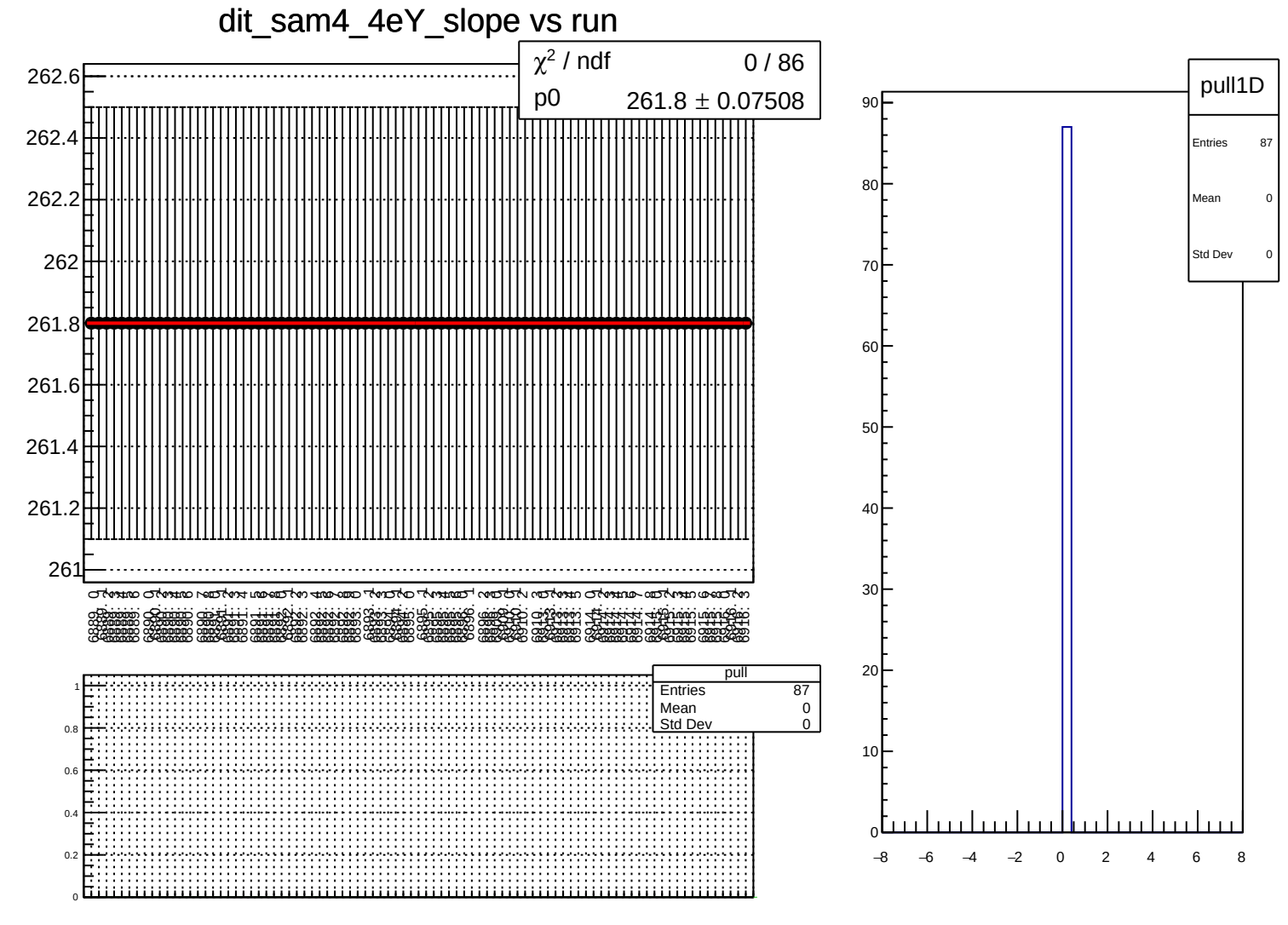

dit_sam3_4eY_slope vs run
χ² / ndf 1.369e−23 / 86
p0 29.45 ± 0.02784
29.7
29.6
29.5
29.4
29.3
29.2
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
pull1D
Entries 87
Mean −3.967e−13
Std Dev8.299e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

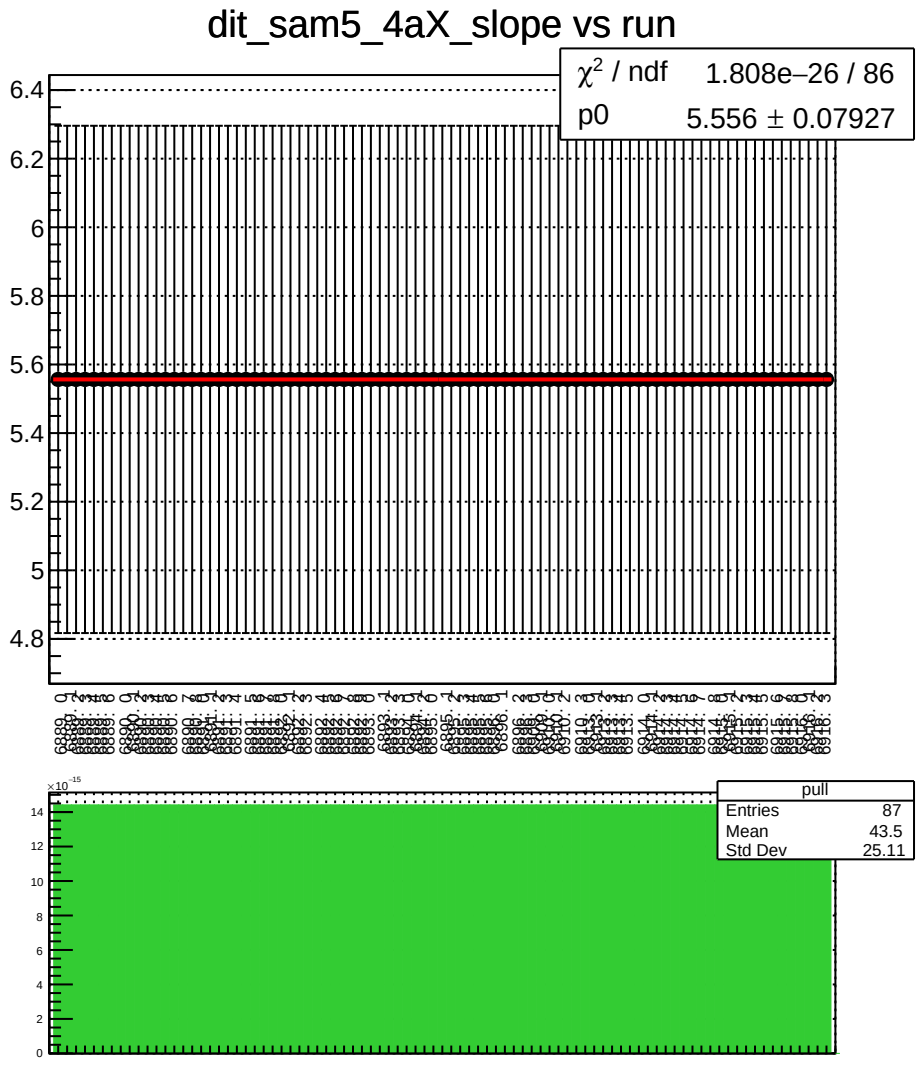

dit_sam4_4aX_slope vs run
χ² / ndf 5.027e−27 / 86
p0 32.01 ± 0.5011
36
34
32
30
28
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
7
6
5
4
3
2
1
0
pull1D
Entries 87
Mean 7.602e−15
Std Dev 4.966e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

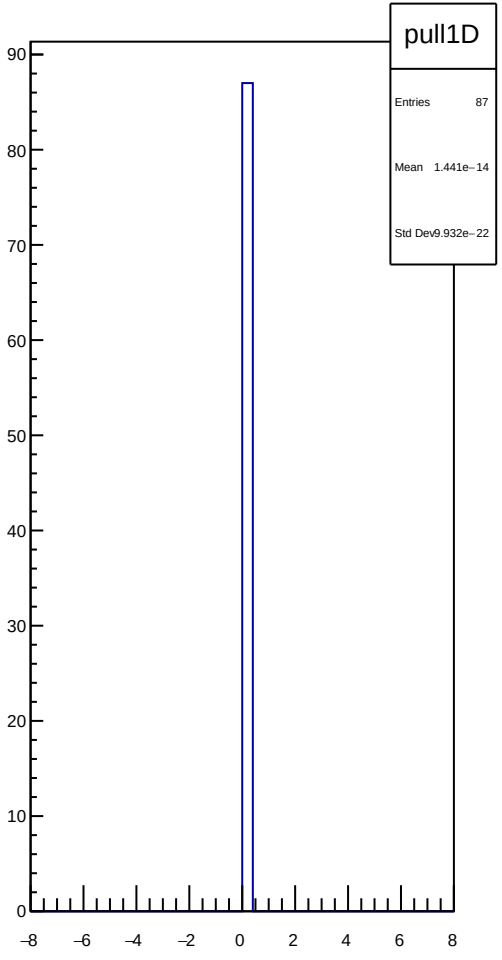

dit_sam4_4eX_slope vs run
χ² / ndf 7.203e−26 / 86
p0 −211.5 ± 0.4236
pull
Entries 87
Mean 43.5
Std Dev 25.11
pull1D
Entries 87
Mean 2.877e−14
Std Dev1.037e−21

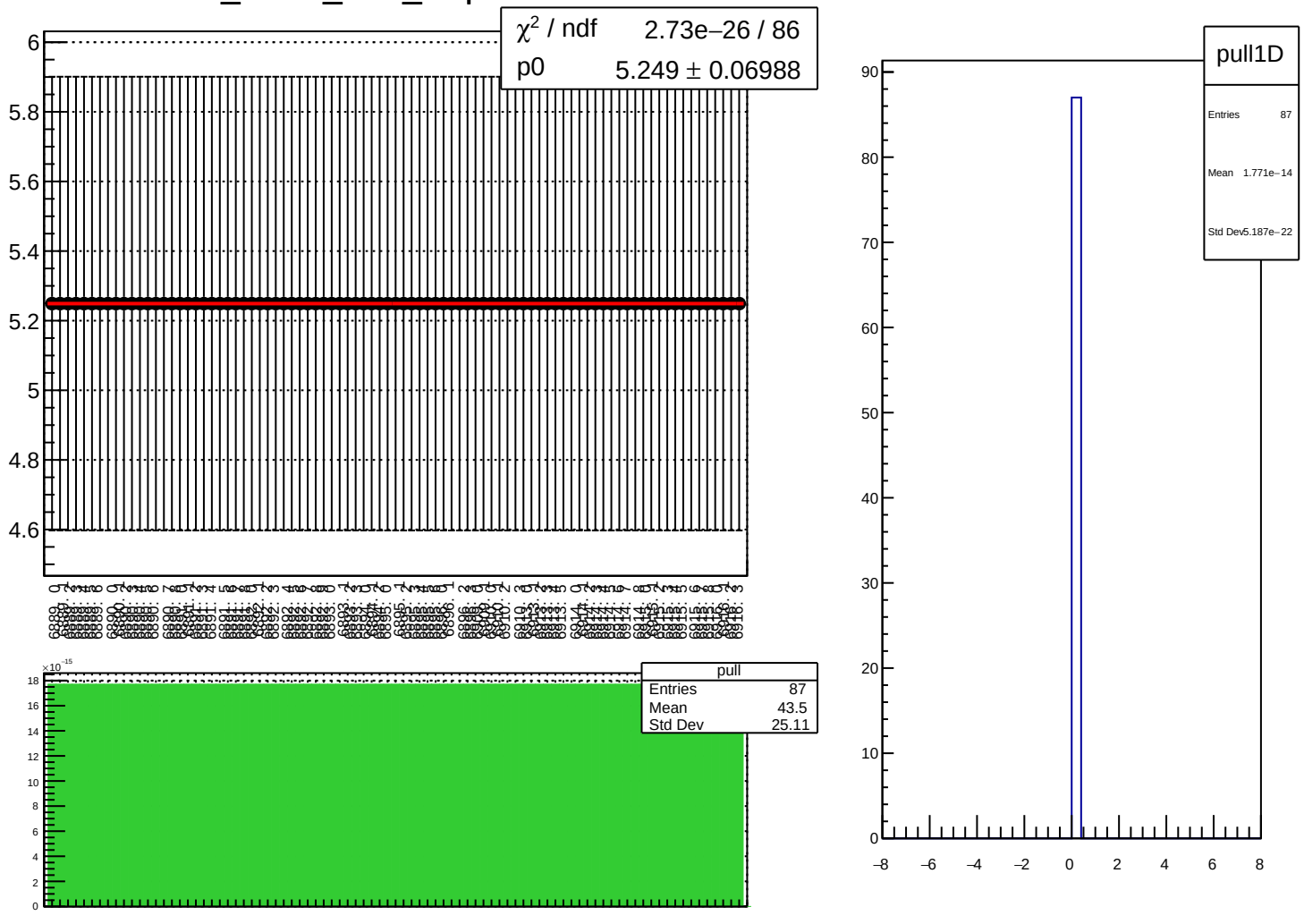

dit_sam4_11X12X_slope vs run
χ² / ndf 5.563e−26 / 86
p0 0.6435 ± 0.006119
0.7
0.68
0.66
0.64
0.62
0.6
0.58
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
25
20
15
10
5
0
pull1D
Entries 87
Mean 2.529e−14
Std Dev 1.121e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

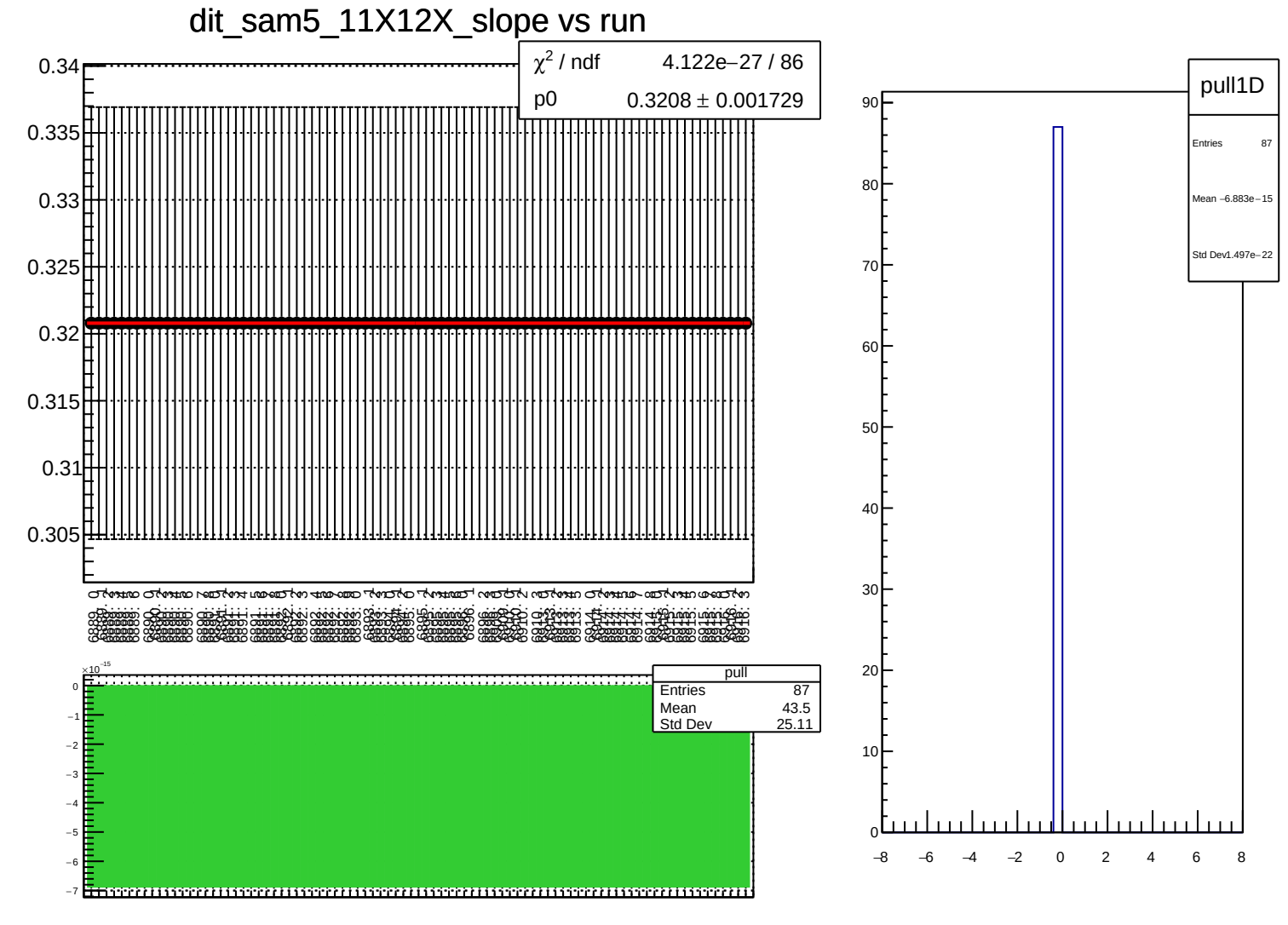

dit_sam4_4aY_slope vs run
χ² / ndf 8.536e−27 / 86
p0 −21.15 ± 0.03845
−20.8
−20.9
−21
−21.1
−21.2
−21.3
−21.4
−21.5
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
10
8
6
4
2
0
pull1D
Entries 87
Mean 9.906e−15
Std Dev 6.353e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

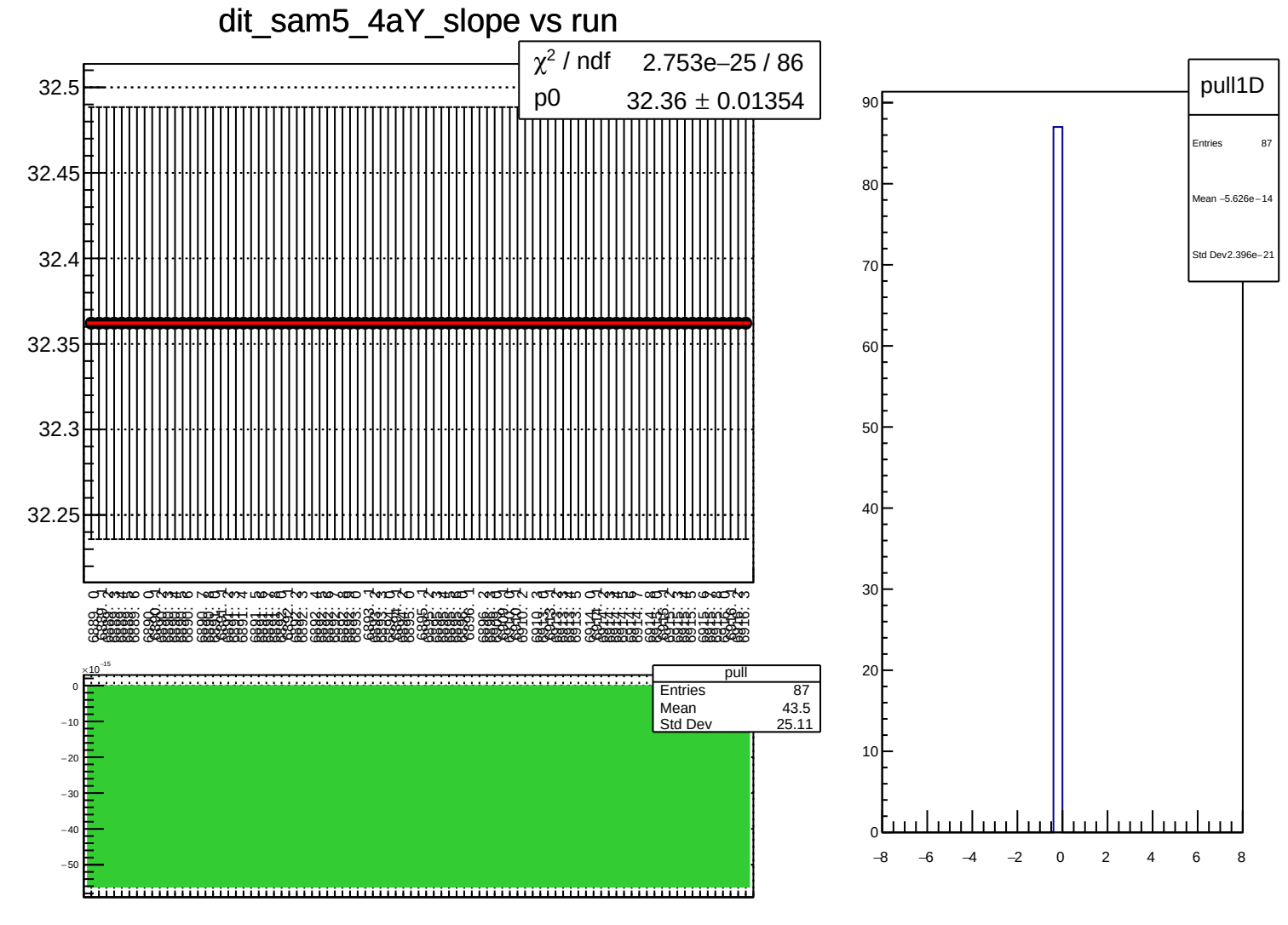

dit_sam4_4eY_slope vs run
χ² / ndf 0 / 86
p0 261.8 ± 0.07508
262.6
262.4
262.2
262
261.8
261.6
261.4
261.2
261
pull
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 87
Mean 0
Std Dev 0
90
80
70
60
50
40
30
20
10
0
–8
–6
–4
–2
0
2
4
6
8

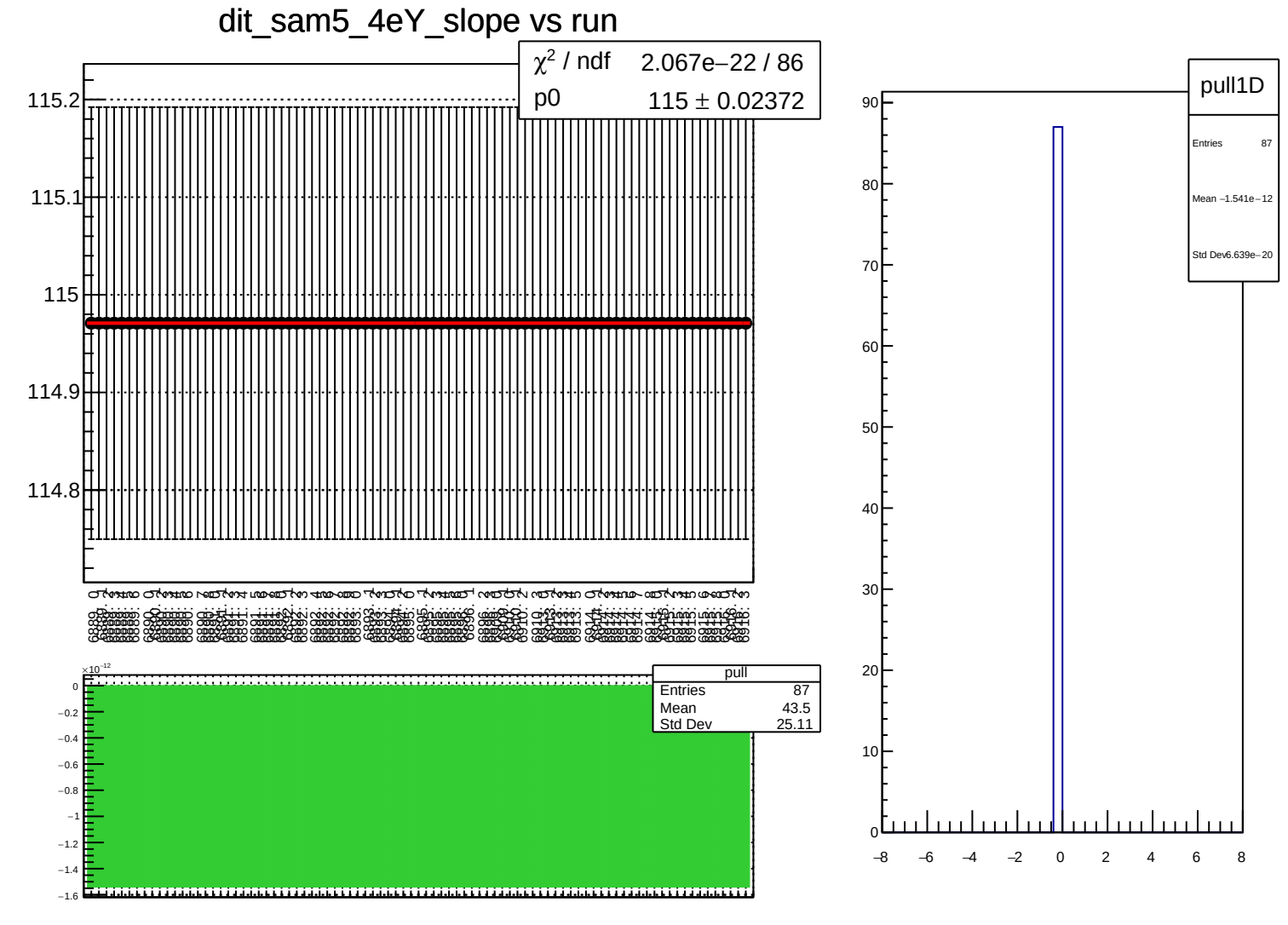

dit_sam5_4aX_slope vs run
χ² / ndf 1.808e−26 / 86
p0 5.556 ± 0.07927
pull
Entries 87
Mean 43.5
Std Dev 25.11

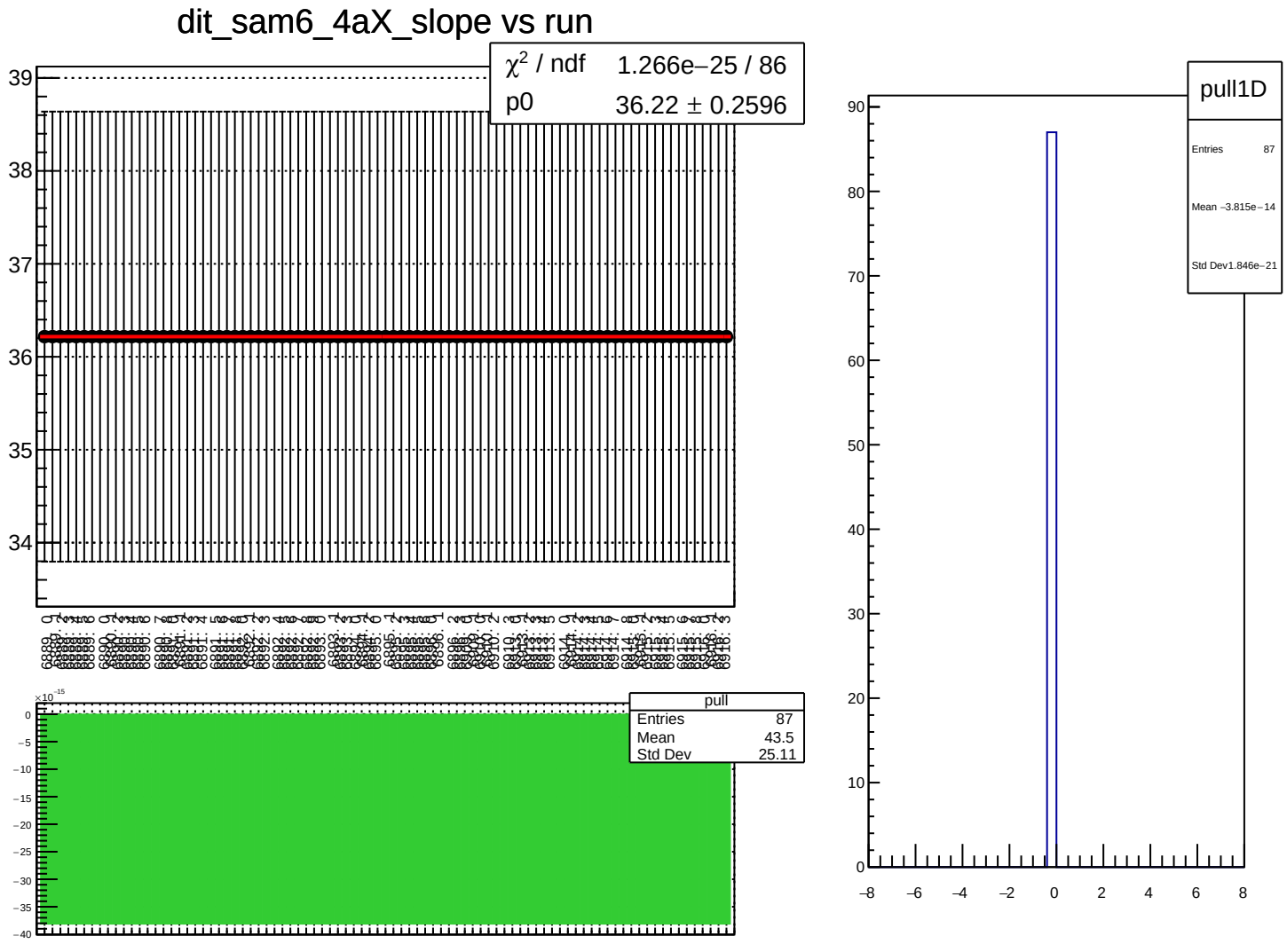

pull1D
Entries 87
Mean 1.441e−14
Std Dev 9.932e−22

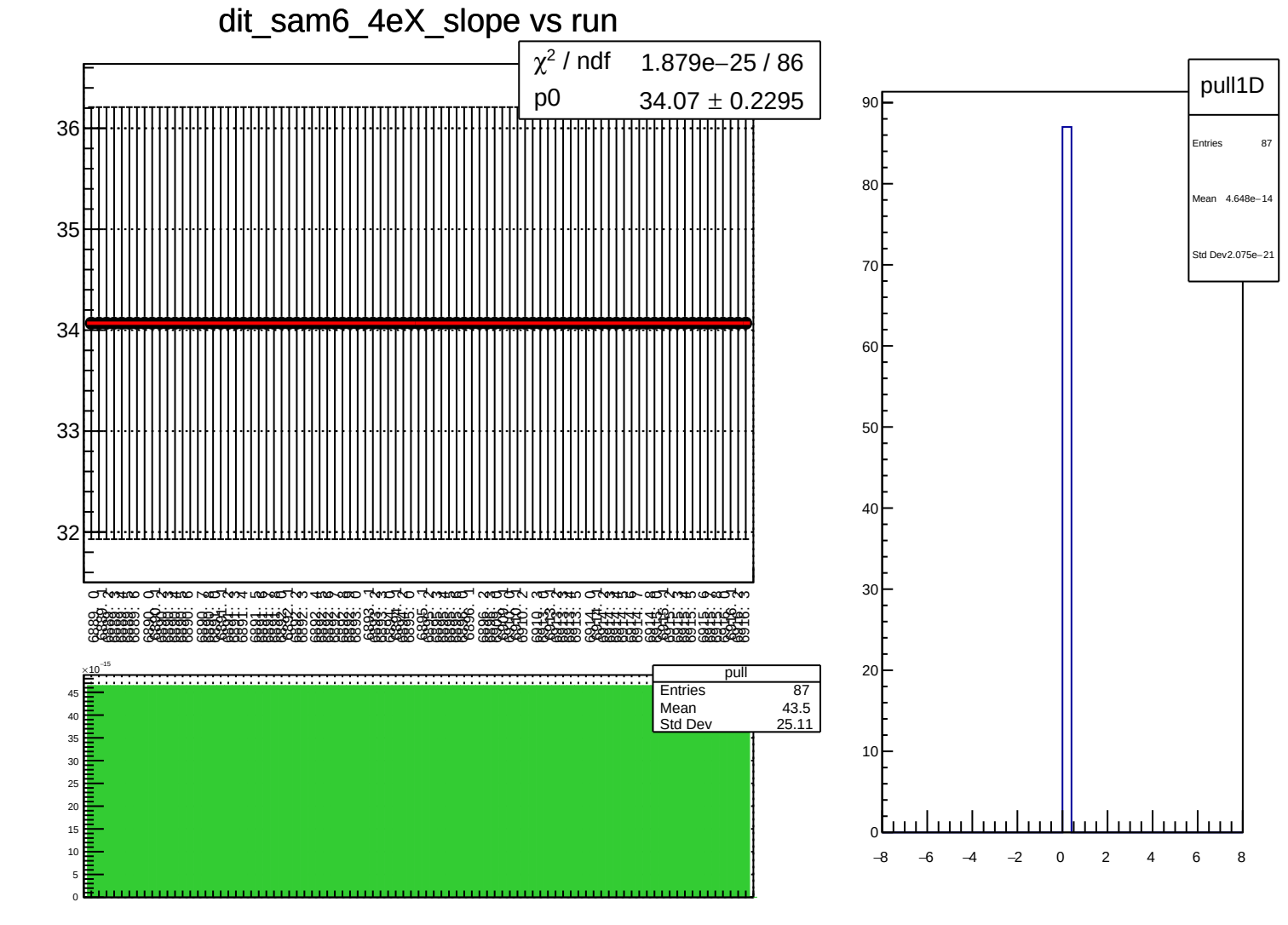

dit_sam5_4eX_slope vs run
χ² / ndf 2.73e−26 / 86
p0 5.249 ± 0.06988
pull
Entries 87
Mean 43.5
Std Dev 25.11
pull1D
Entries 87
Mean 1.771e−14
Std Dev5.187e−22

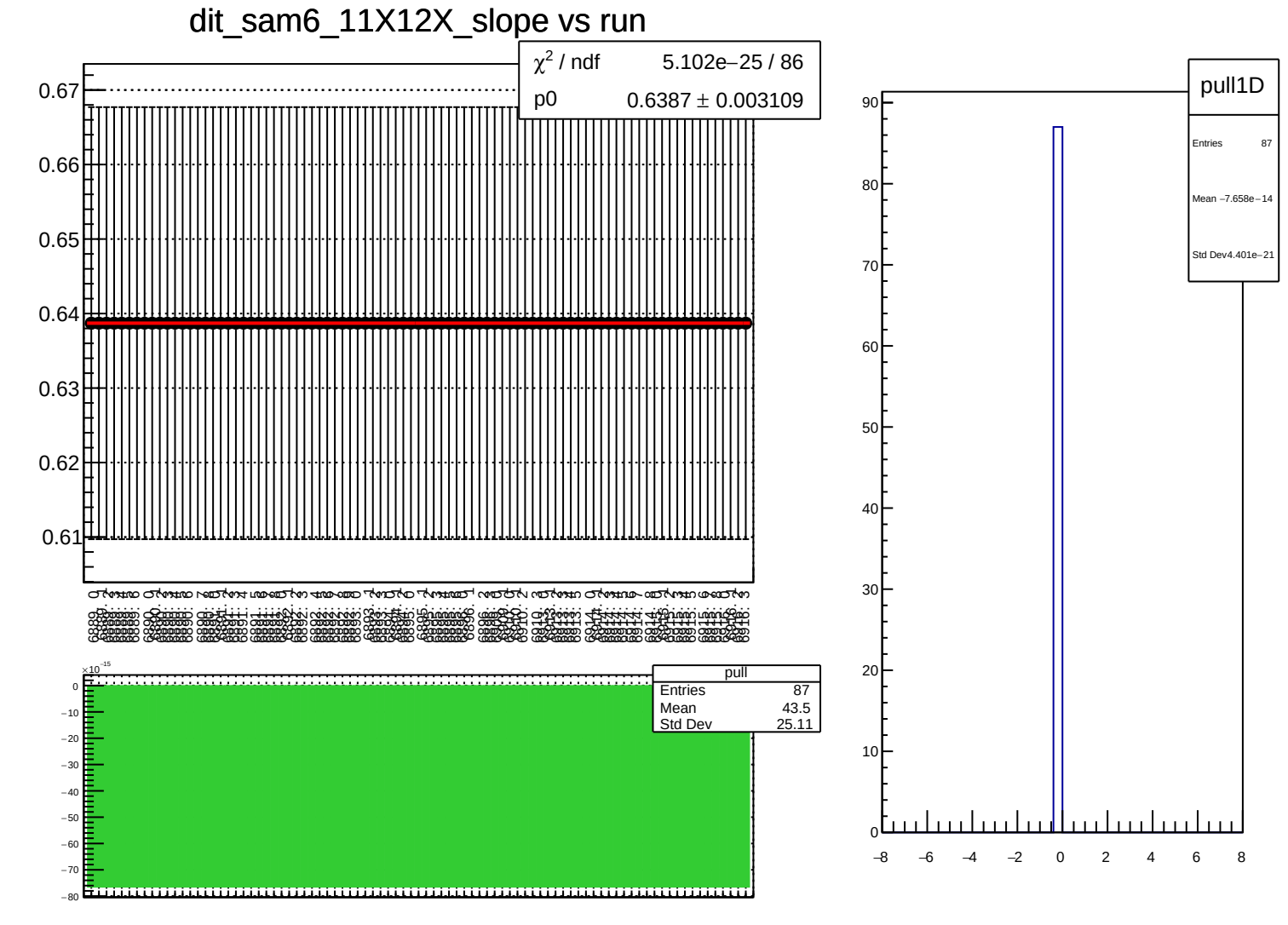

dit_sam5_11X12X_slope vs run
χ² / ndf 4.122e−27 / 86
p0 0.3208 ± 0.001729
0.34
0.335
0.33
0.325
0.32
0.315
0.31
0.305
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
−7
pull1D
Entries 87
Mean −6.883e−15
Std Dev1.497e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

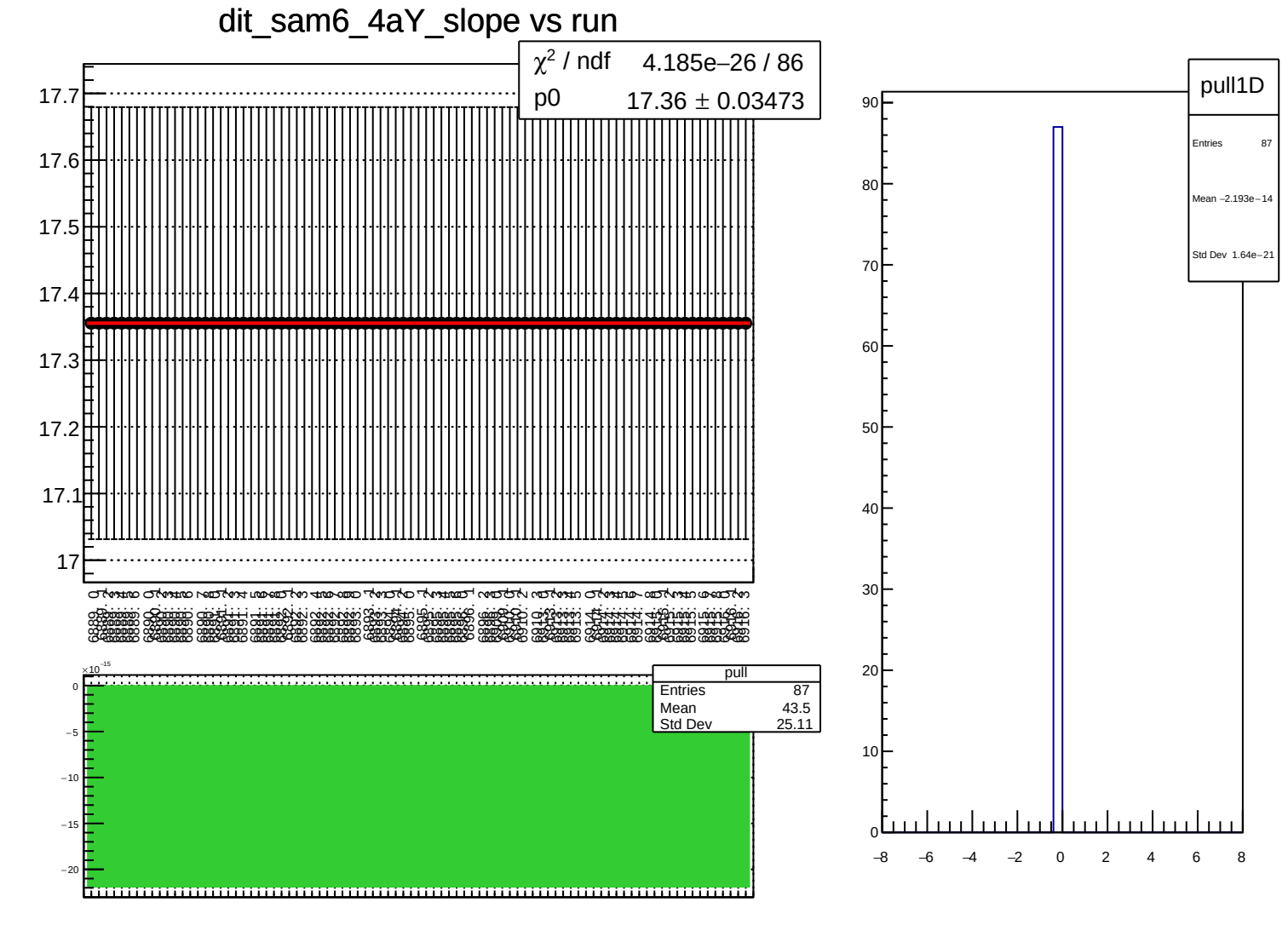

dit_sam5_4aY_slope vs run
χ² / ndf 2.753e−25 / 86
p0 32.36 ± 0.01354
32.5
32.45
32.4
32.35
32.3
32.25
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
0
−10
−20
−30
−40
−50
pull1D
Entries 87
Mean −5.626e−14
Std Dev2.396e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

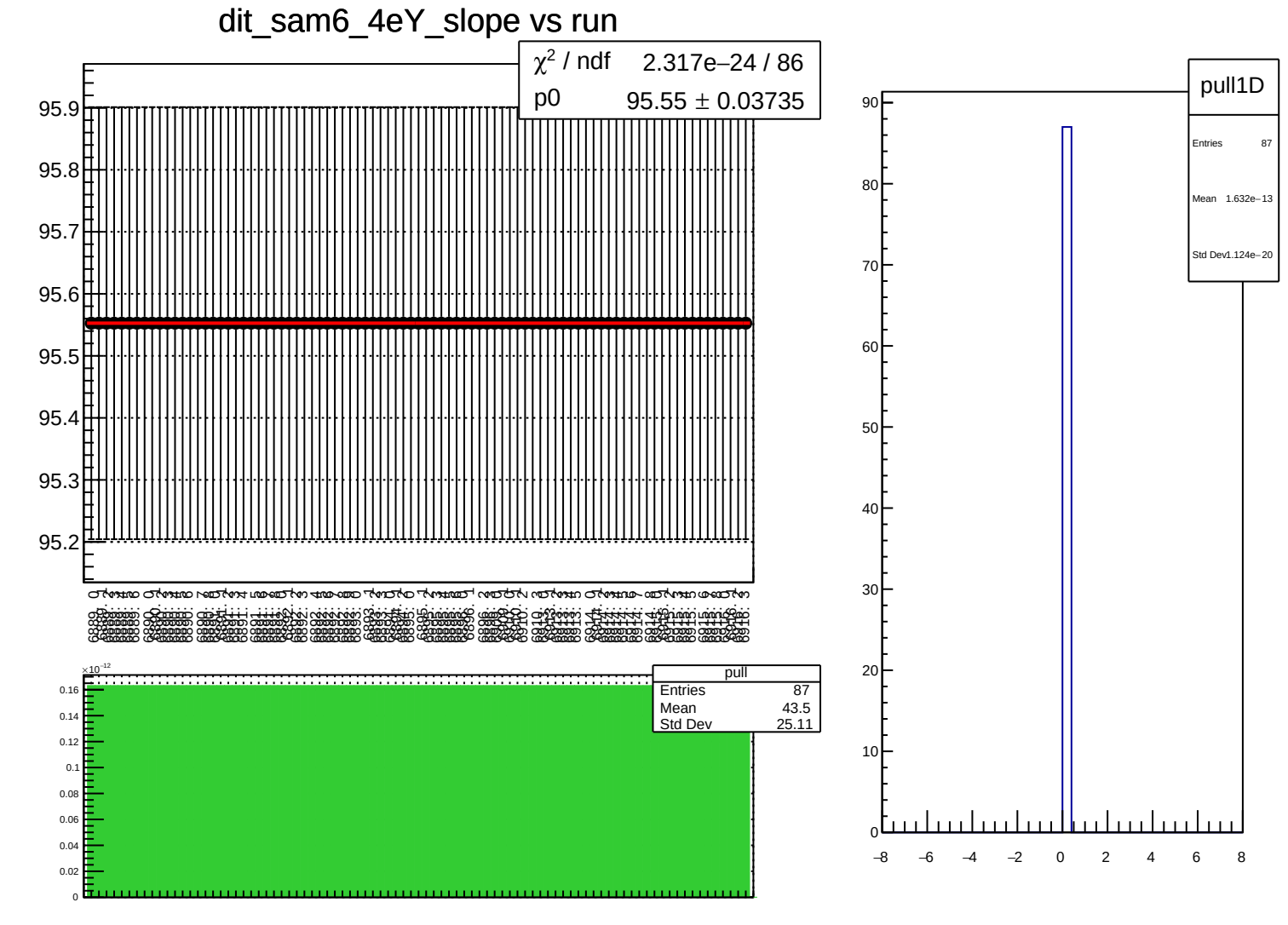

dit_sam5_4eY_slope vs run
χ² / ndf 2.067e−22 / 86
p0 115 ± 0.02372
115.2
115.1
115
114.9
114.8
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
pull1D
Entries 87
Mean −1.541e−12
Std Dev 6.639e−20
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

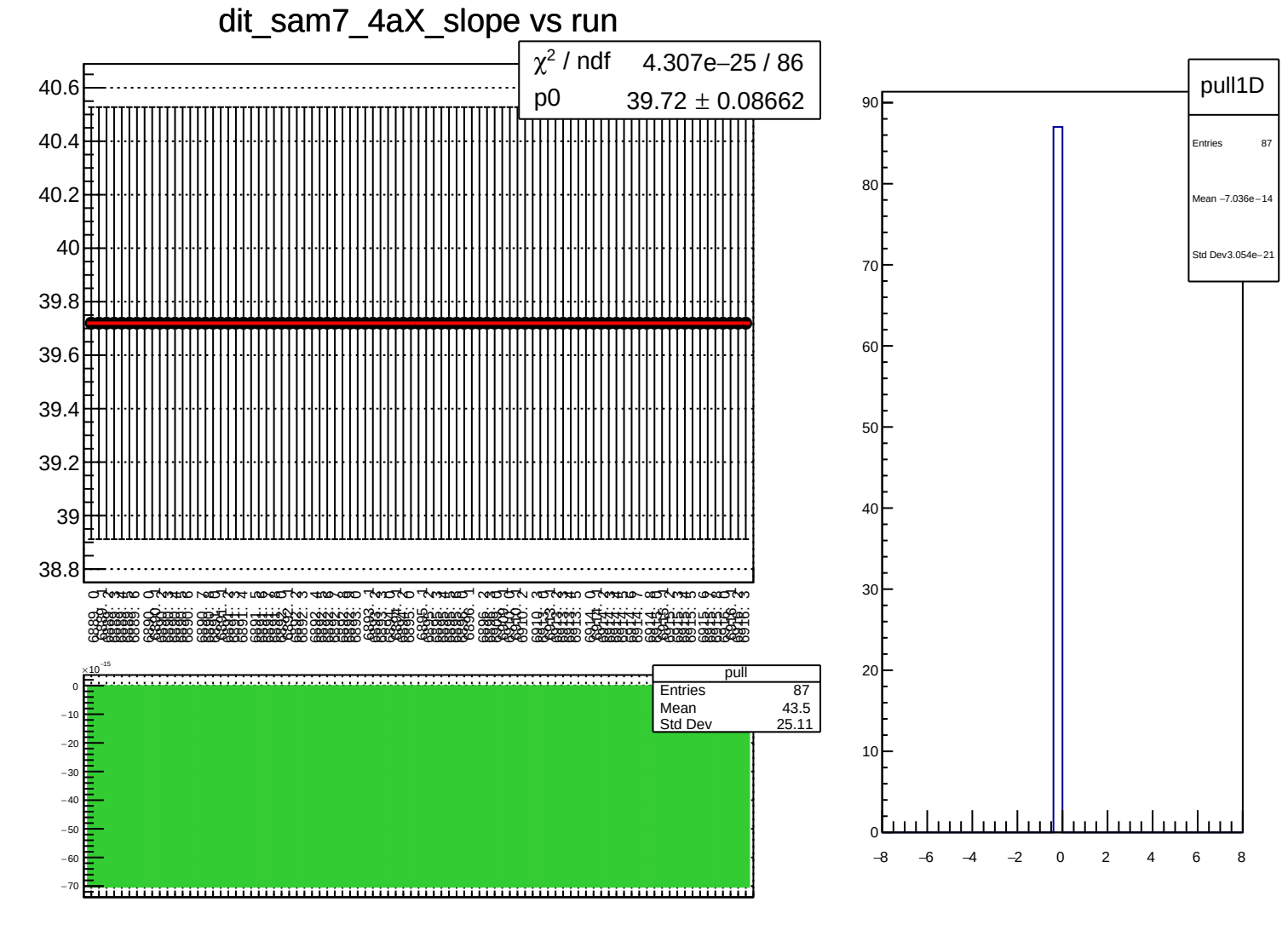

dit_sam6_4aX_slope vs run
χ² / ndf 1.266e−25 / 86
p0 36.22 ± 0.2596
39
38
37
36
35
34
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
−40
pull1D
Entries 87
Mean −3.815e−14
Std Dev1.846e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

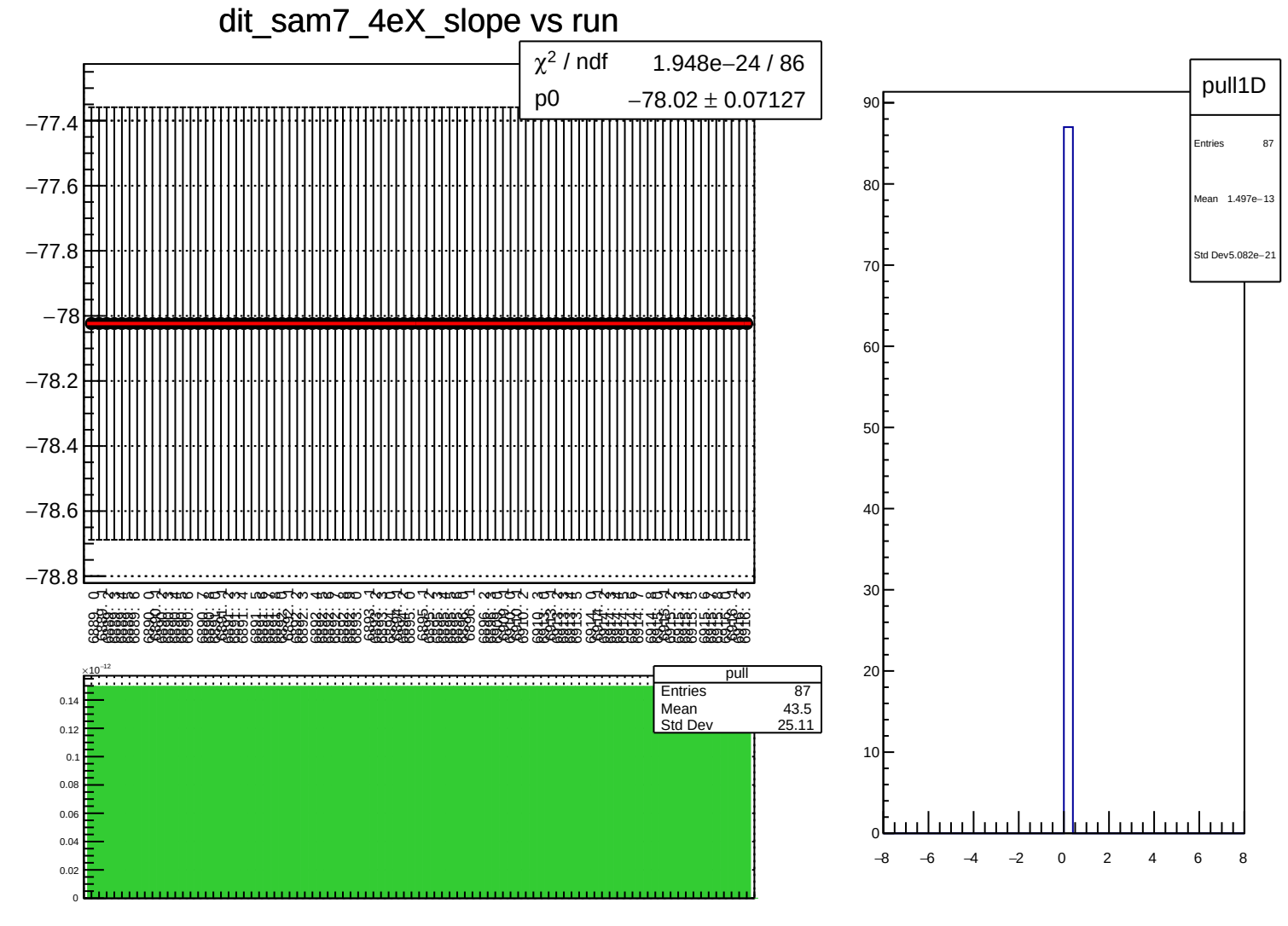

dit_sam6_4eX_slope vs run
χ² / ndf 1.879e−25 / 86
p0 34.07 ± 0.2295
36
35
34
33
32
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
45
40
35
30
25
20
15
10
5
0
pull1D
Entries 87
Mean 4.648e−14
Std Dev2.075e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

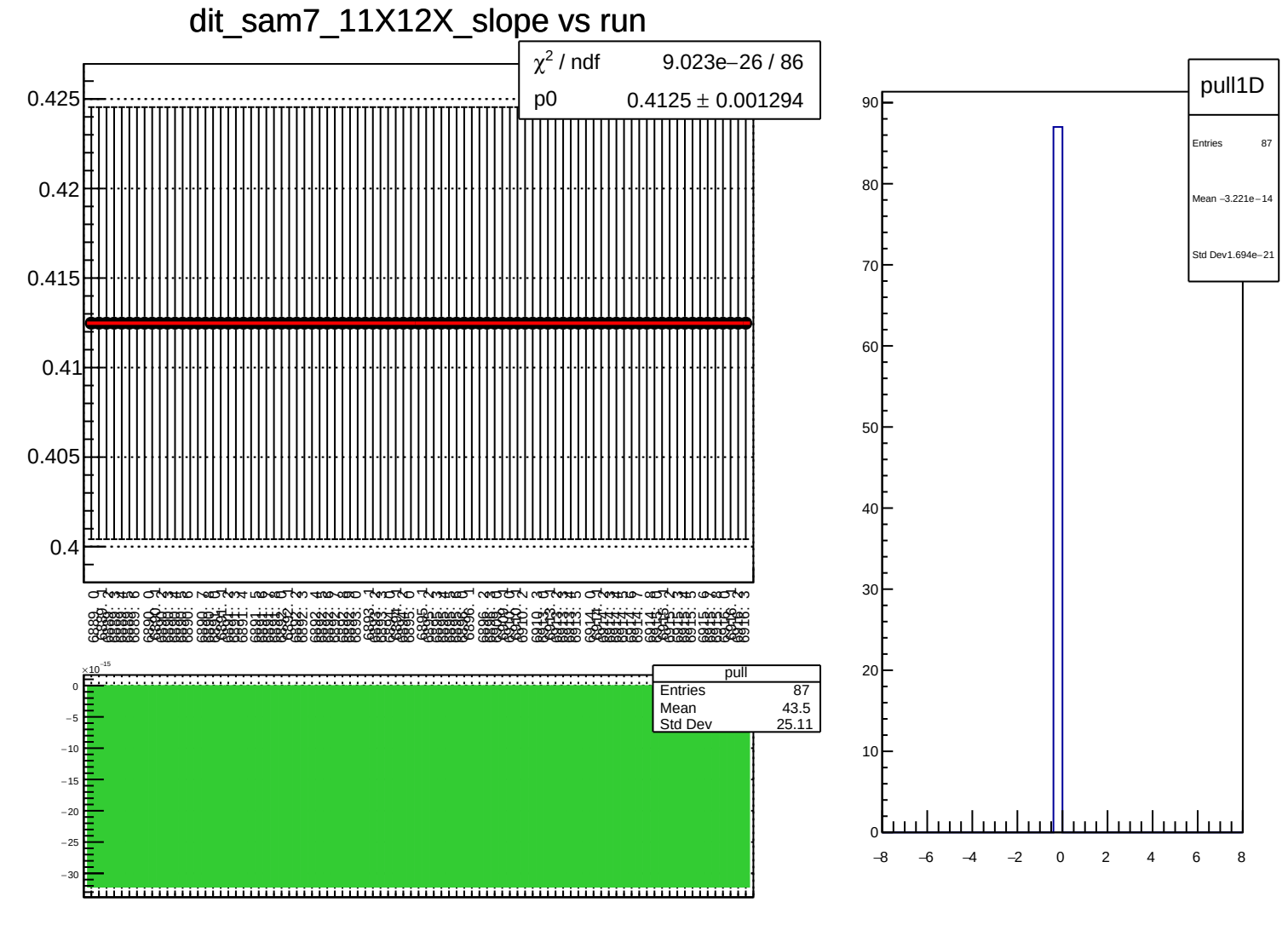

dit_sam6_11X12X_slope vs run
χ² / ndf 5.102e−25 / 86
p0 0.6387 ± 0.003109
0.67
0.66
0.65
0.64
0.63
0.62
0.61
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
−80
pull1D
Entries 87
Mean −7.658e−14
Std Dev4.401e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

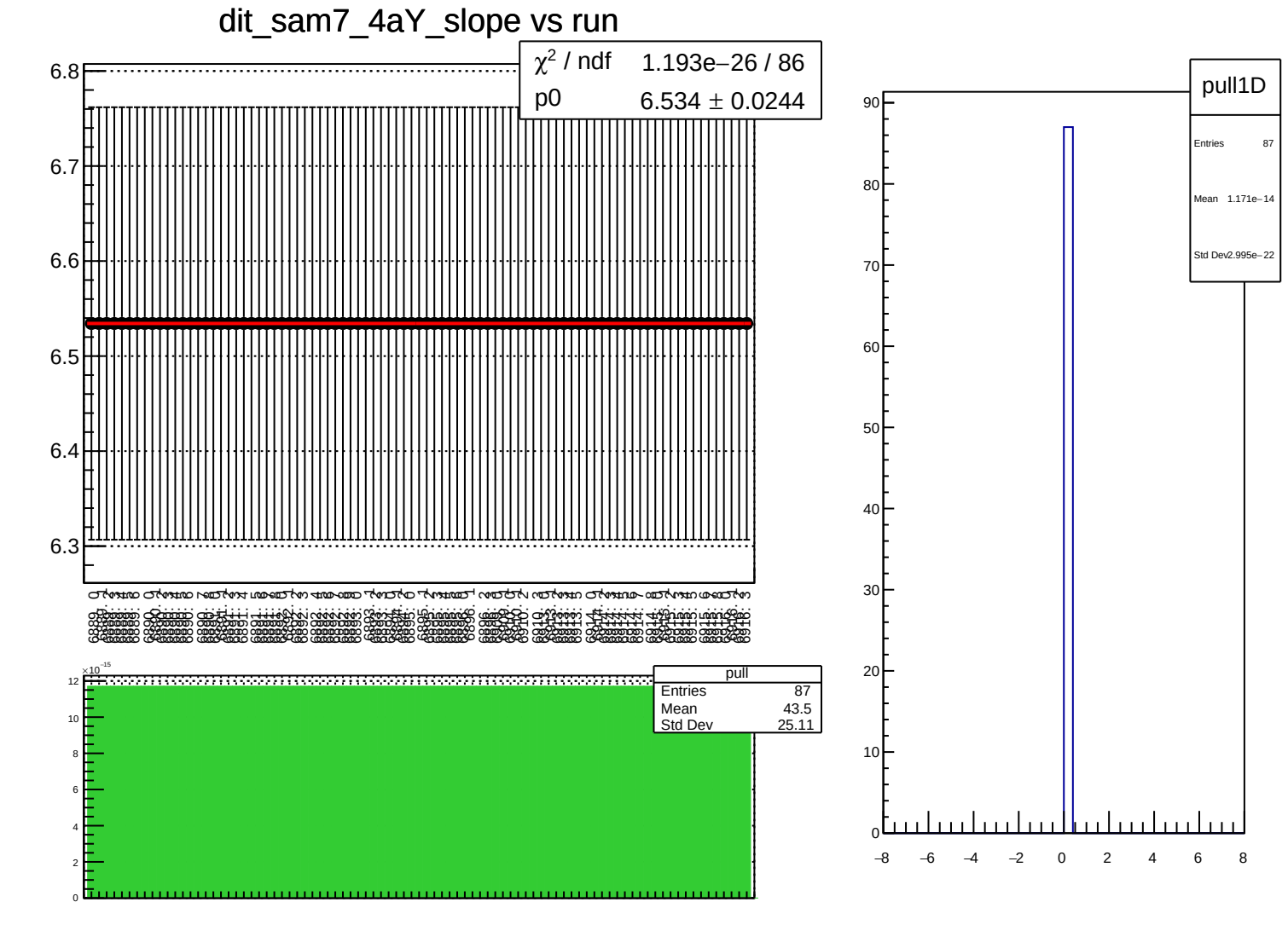

dit_sam6_4aY_slope vs run
χ² / ndf 4.185e−26 / 86
p0 17.36 ± 0.03473
17.7
17.6
17.5
17.4
17.3
17.2
17.1
17
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
0
−5
−10
−15
−20
pull1D
Entries 87
Mean −2.193e−14
Std Dev 1.64e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

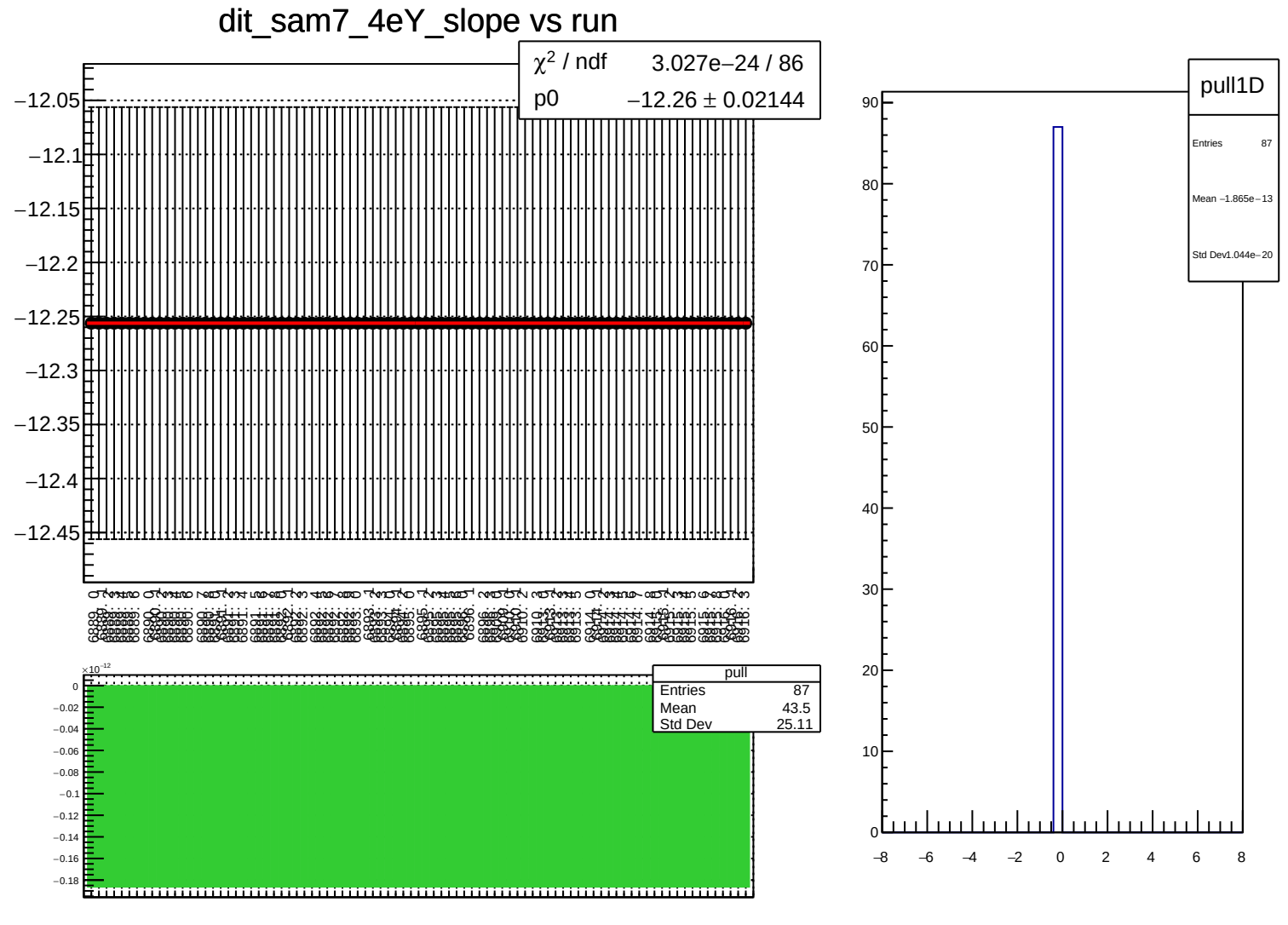

dit_sam6_4eY_slope vs run
χ² / ndf 2.317e−24 / 86
p0 95.55 ± 0.03735
95.9
95.8
95.7
95.6
95.5
95.4
95.3
95.2
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull1D
Entries 87
Mean 1.632e−13
Std Dev1.124e−20
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

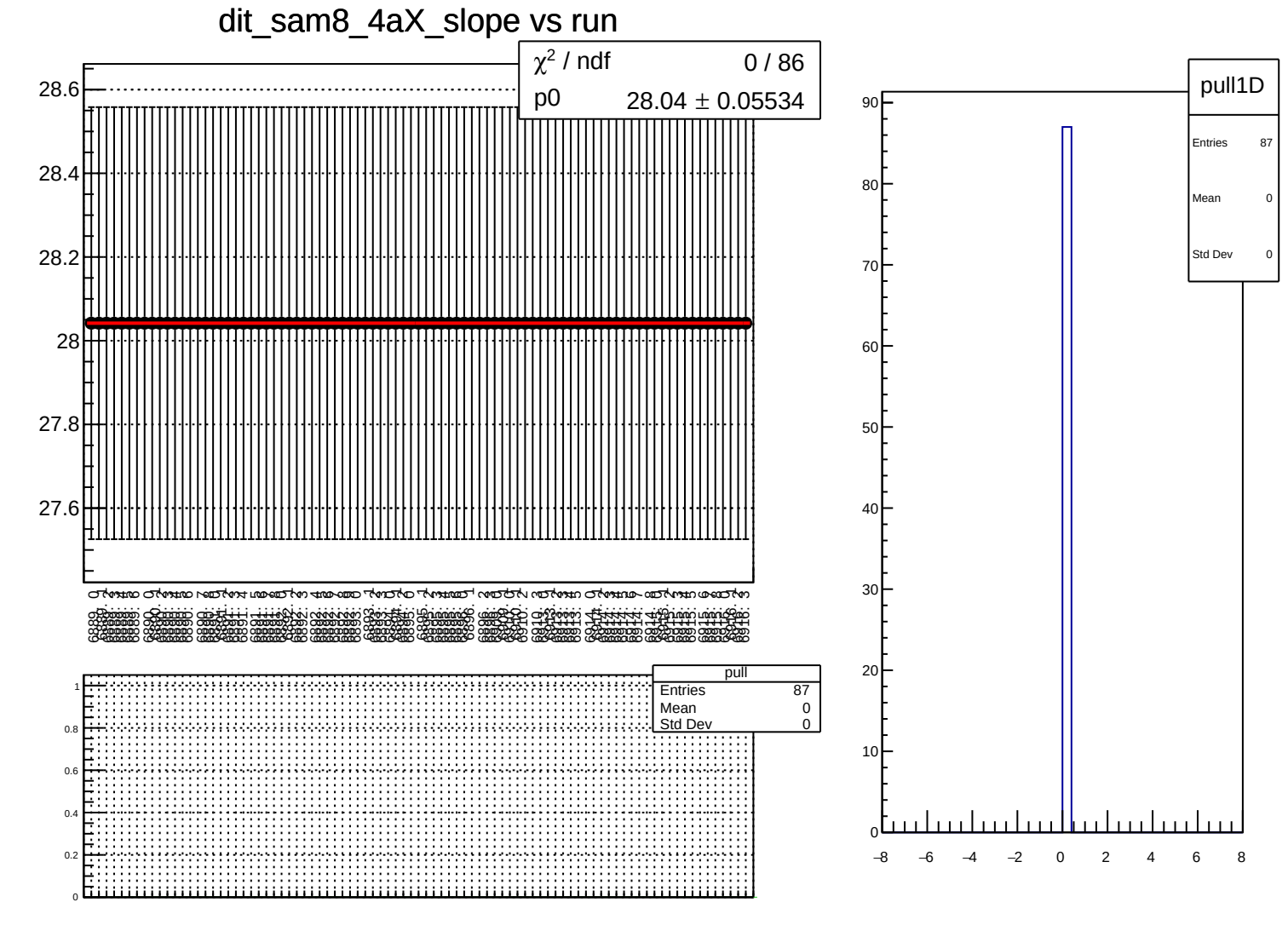

dit_sam7_4aX_slope vs run
χ² / ndf 4.307e−25 / 86
p0 39.72 ± 0.08662
40.6
40.4
40.2
40
39.8
39.6
39.4
39.2
39
38.8
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 87
Mean −7.036e−14
Std Dev3.054e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

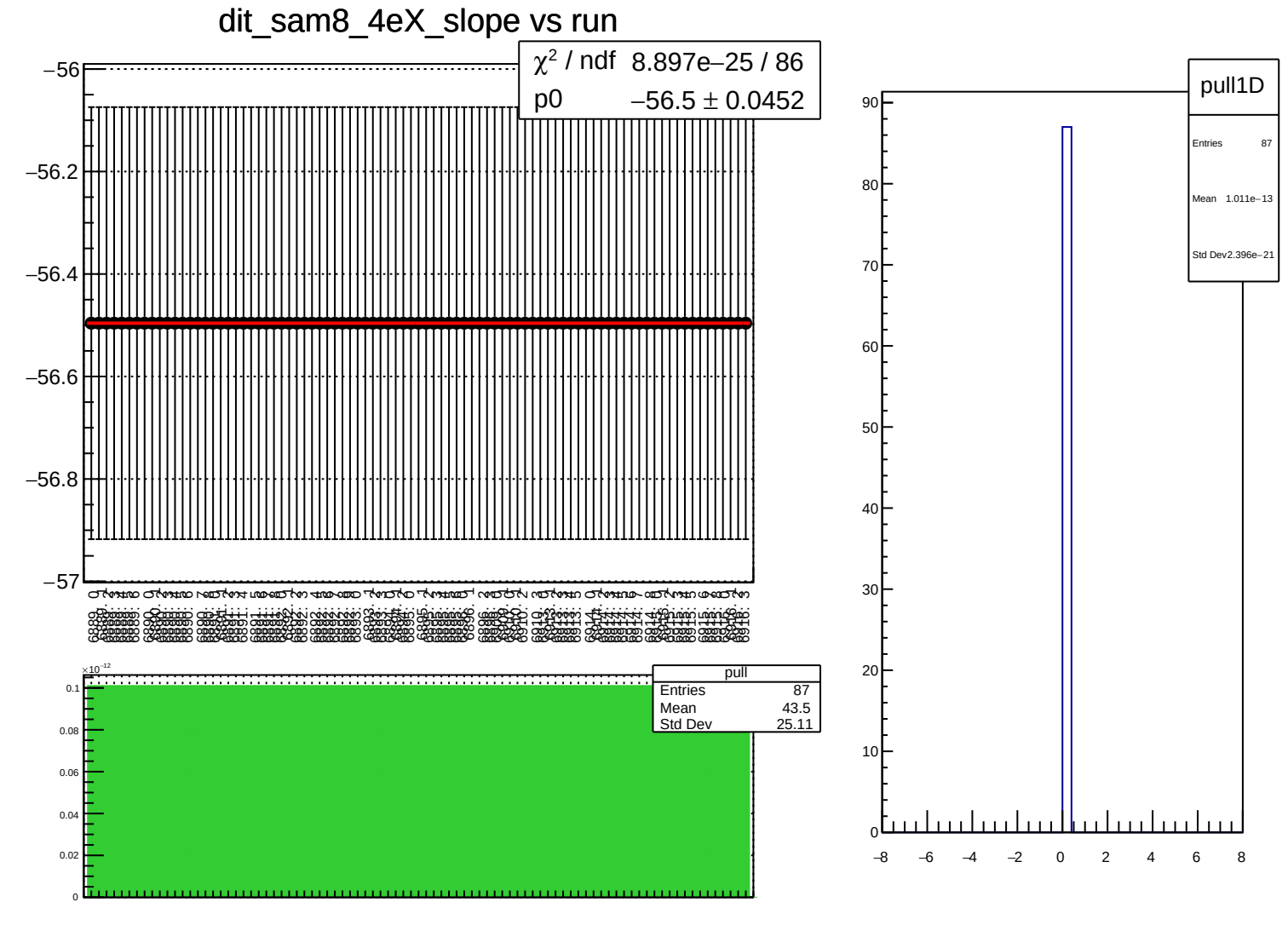

dit_sam7_4eX_slope vs run
χ² / ndf 1.948e−24 / 86
p0 −78.02 ± 0.07127
−77.4
−77.6
−77.8
−78
−78.2
−78.4
−78.6
−78.8
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull1D
Entries 87
Mean 1.497e−13
Std Dev5.082e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

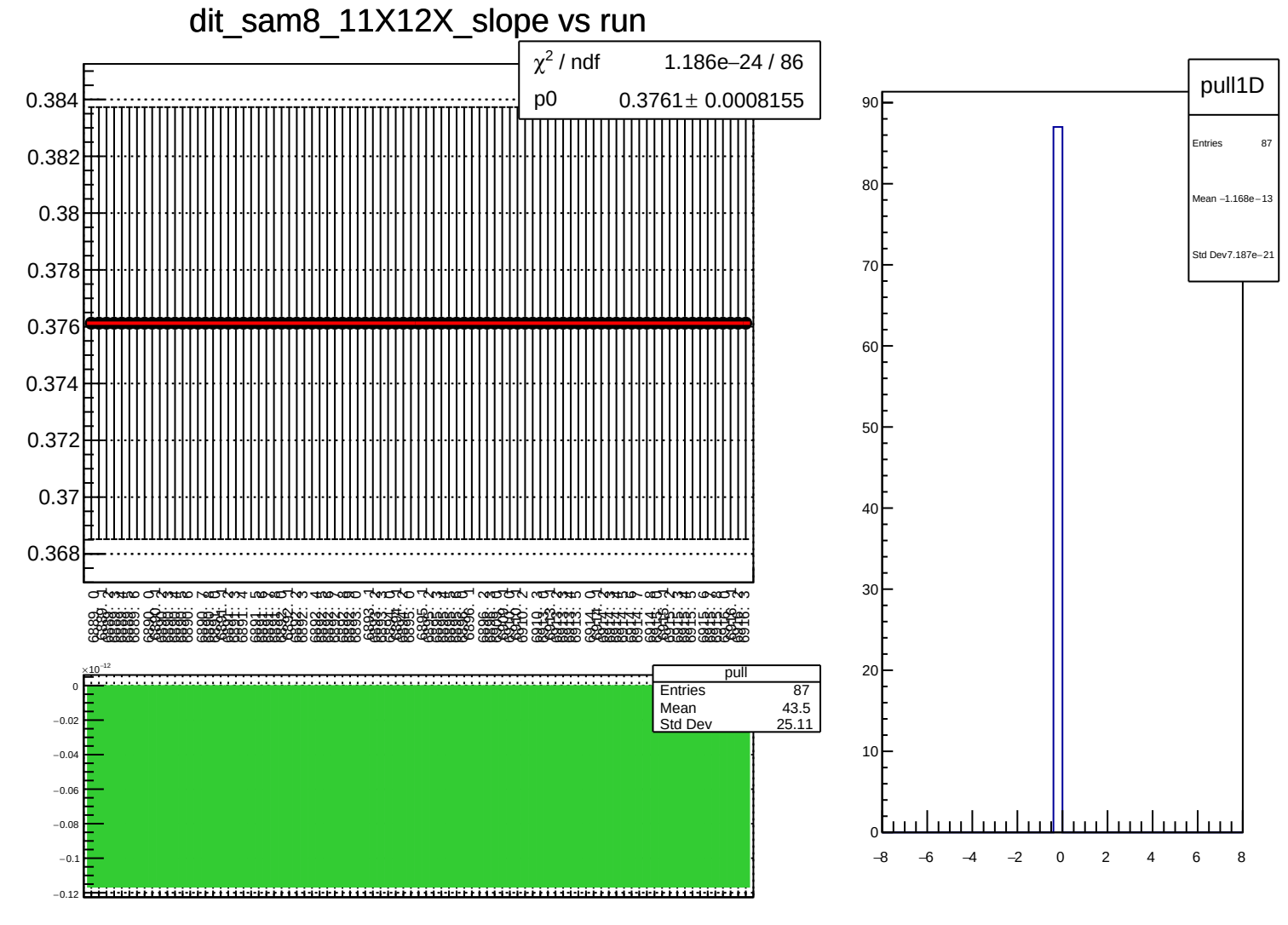

dit_sam7_11X12X_slope vs run
χ² / ndf 9.023e−26 / 86
p0 0.4125 ± 0.001294
0.425
0.42
0.415
0.41
0.405
0.4
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
pull1D
Entries 87
Mean −3.221e−14
Std Dev1.694e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

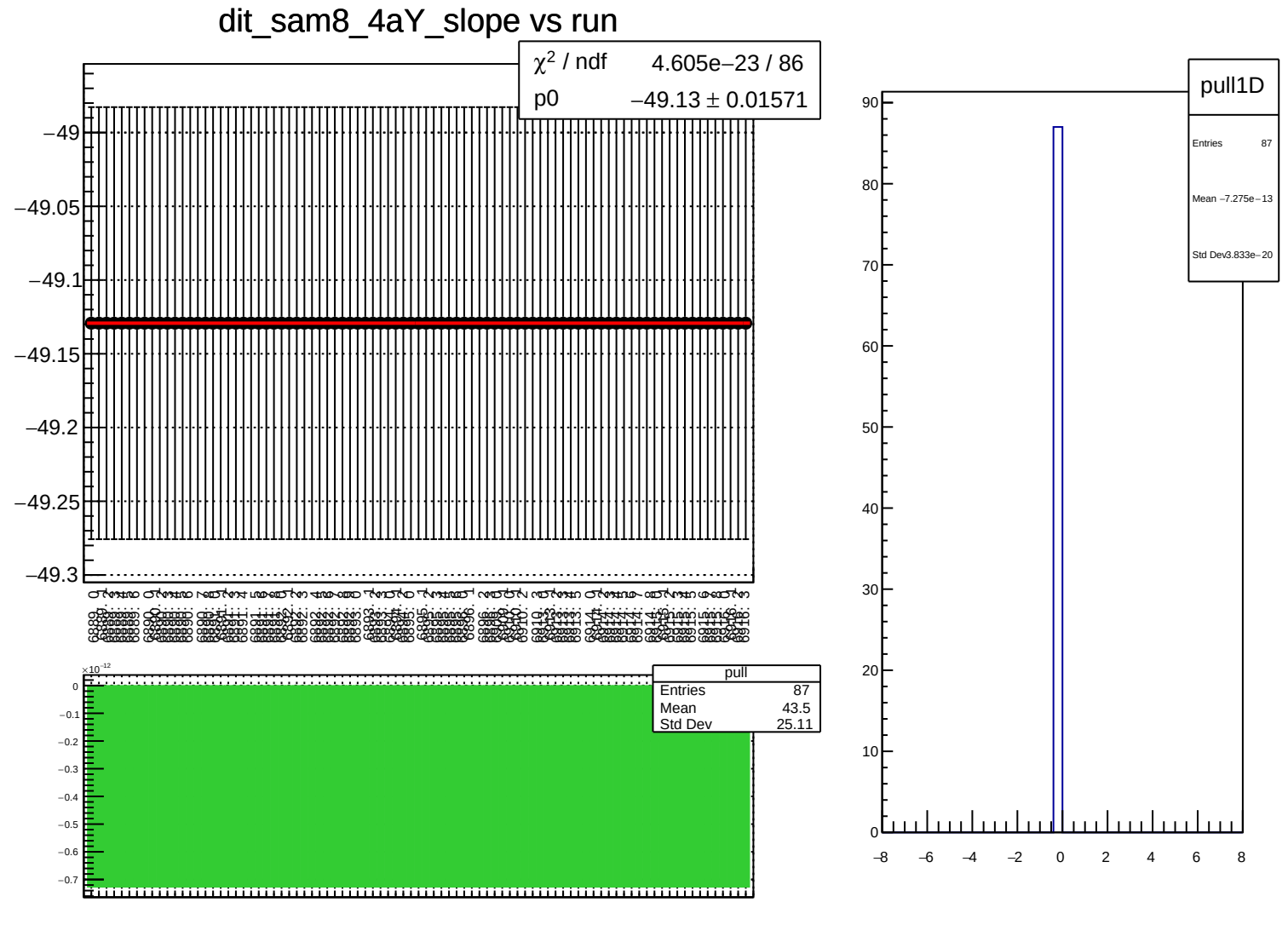

dit_sam7_4aY_slope vs run
χ² / ndf 1.193e−26 / 86
p0 6.534 ± 0.0244
6.8
6.7
6.6
6.5
6.4
6.3
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
12
10
8
6
4
2
0
pull1D
Entries 87
Mean 1.171e−14
Std Dev 2.995e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

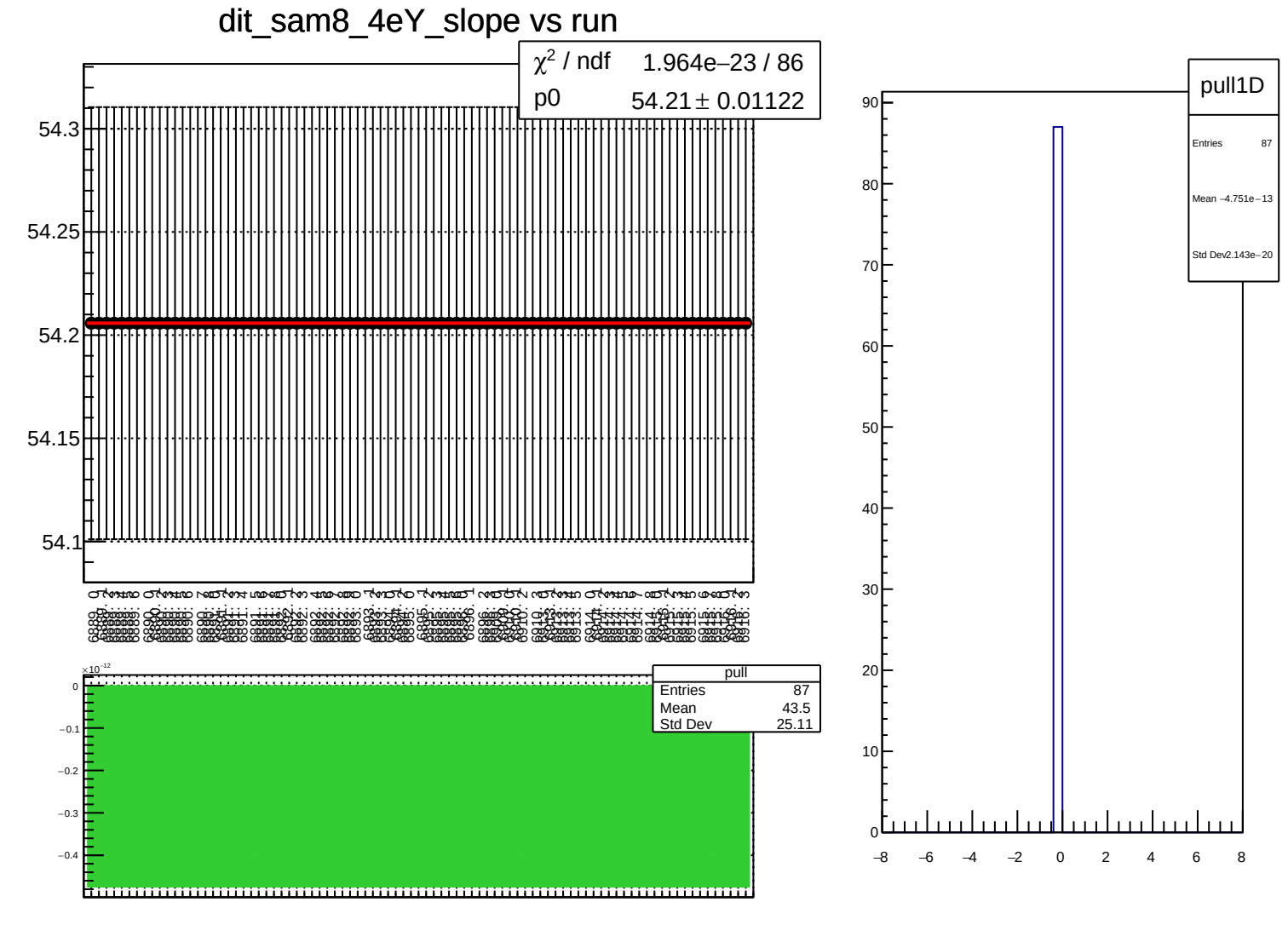

dit_sam7_4eY_slope vs run
χ² / ndf 3.027e−24 / 86
p0 −12.26 ± 0.02144
−12.05
−12.1
−12.15
−12.2
−12.25
−12.3
−12.35
−12.4
−12.45
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull1D
Entries 87
Mean −1.865e−13
Std Dev1.044e−20
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

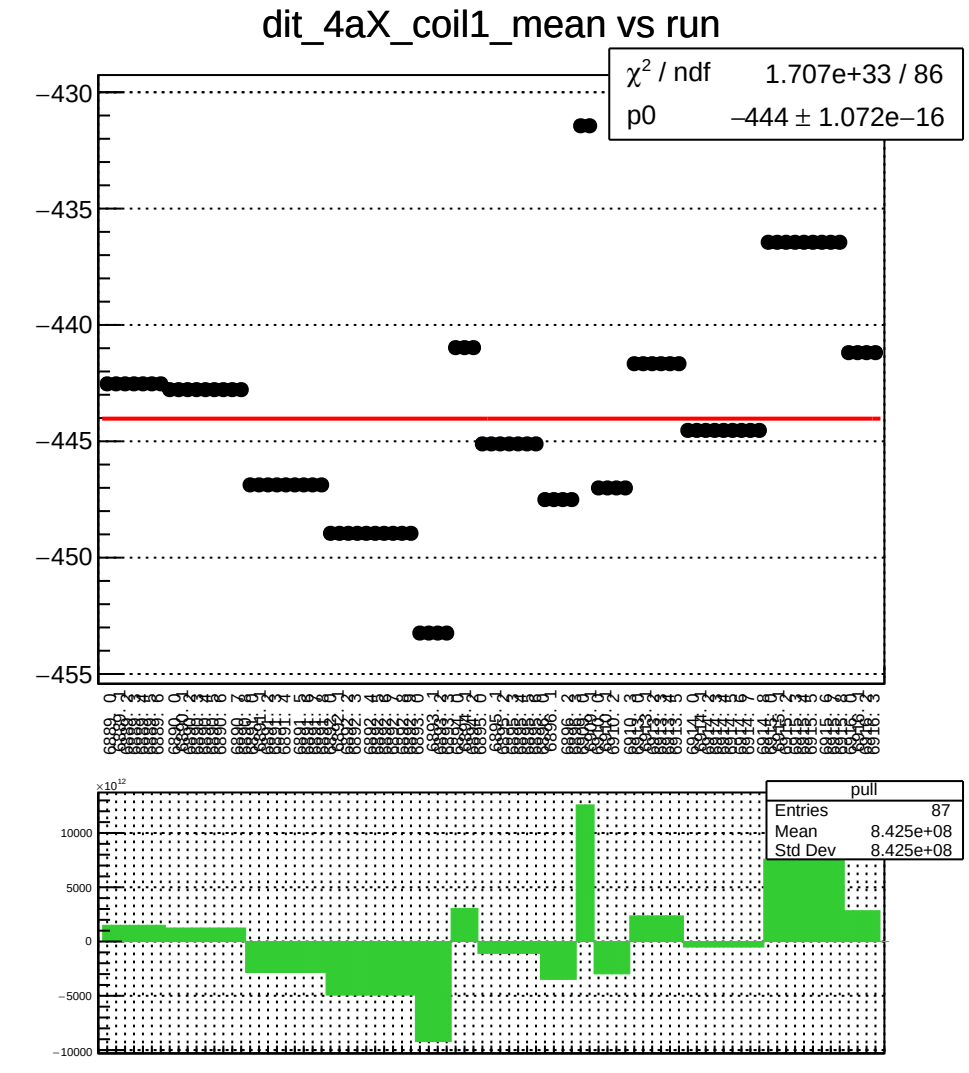

dit_sam8_4aX_slope vs run
χ² / ndf 0 / 86
p0 28.04 ± 0.05534
28.6
28.4
28.2
28
27.8
27.6
pull
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 87
Mean 0
Std Dev 0
90
80
70
60
50
40
30
20
10
0
–8
–6
–4
–2
0
2
4
6
8

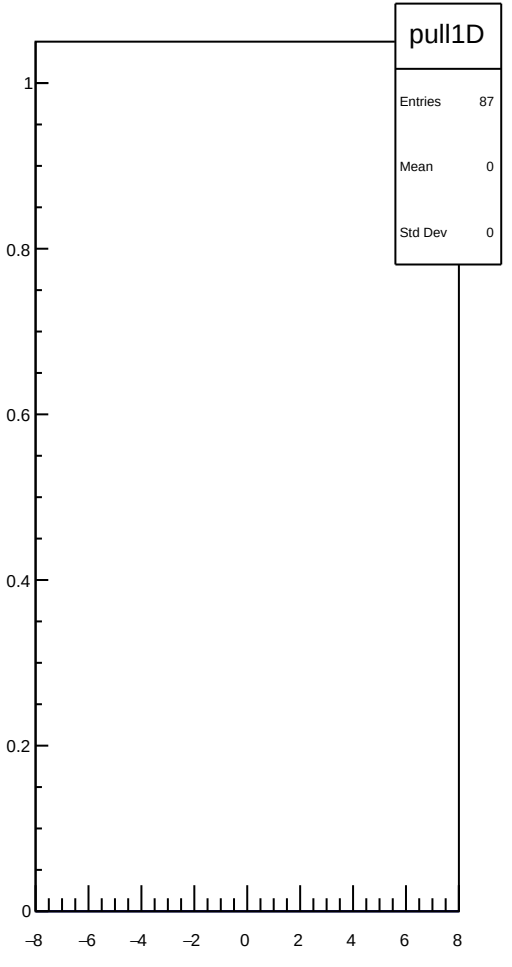

dit_sam8_4eX_slope vs run
χ² / ndf 8.897e−25 / 86
p0 −56.5 ± 0.0452
−56
−56.2
−56.4
−56.6
−56.8
−57
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0.1
0.08
0.06
0.04
0.02
0
pull1D
Entries 87
Mean 1.011e−13
Std Dev2.396e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

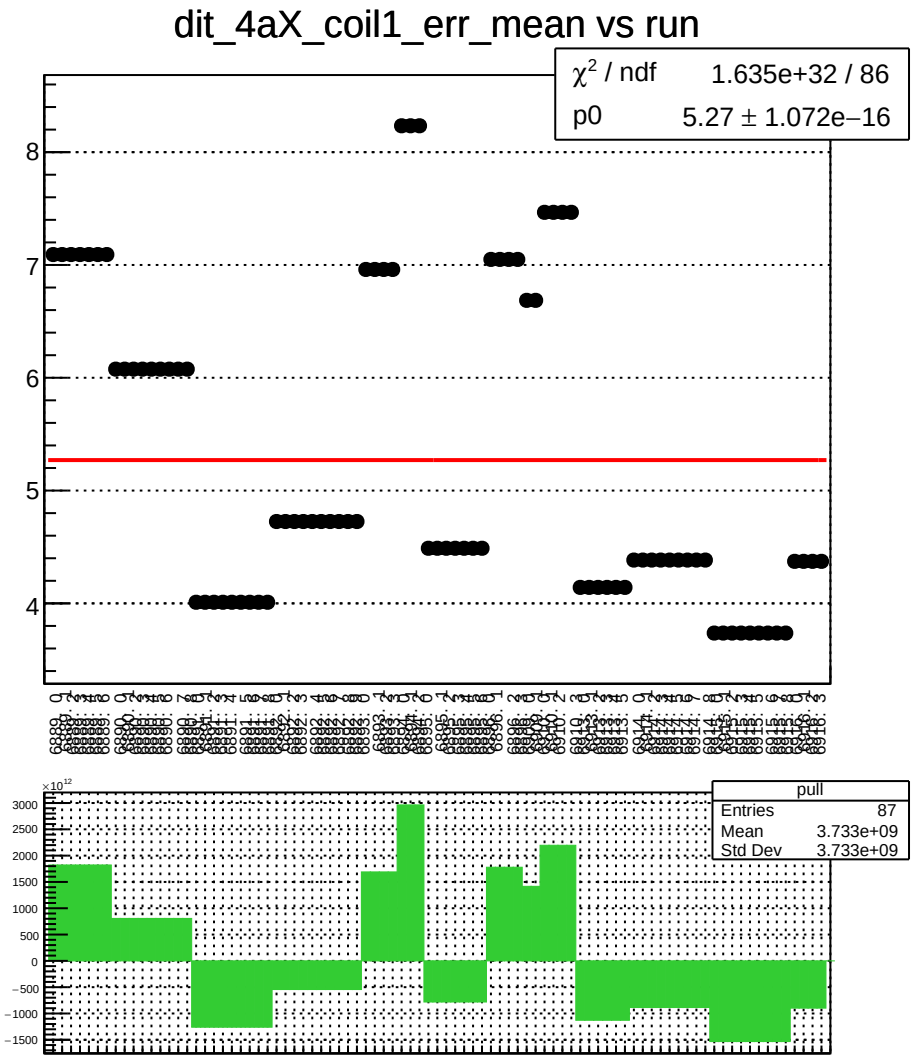

dit_sam8_11X12X_slope vs run
χ² / ndf 1.186e−24 / 86
p0 0.3761 ± 0.0008155
0.384
0.382
0.38
0.378
0.376
0.374
0.372
0.37
0.368
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull1D
Entries 87
Mean −1.168e−13
Std Dev7.187e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

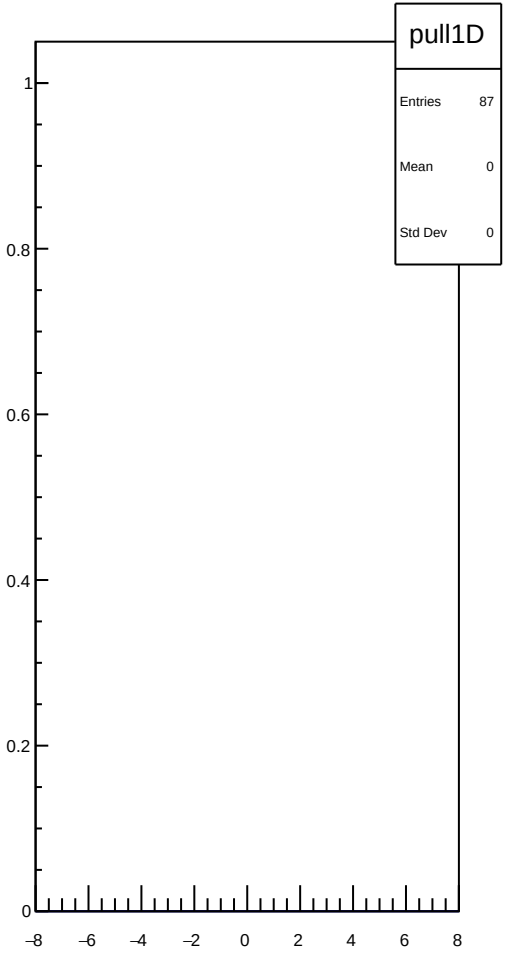

dit_sam8_4aY_slope vs run
χ² / ndf 4.605e−23 / 86
p0 −49.13 ± 0.01571
−49
−49.05
−49.1
−49.15
−49.2
−49.25
−49.3
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
pull1D
Entries 87
Mean −7.275e−13
Std Dev 3.833e−20
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

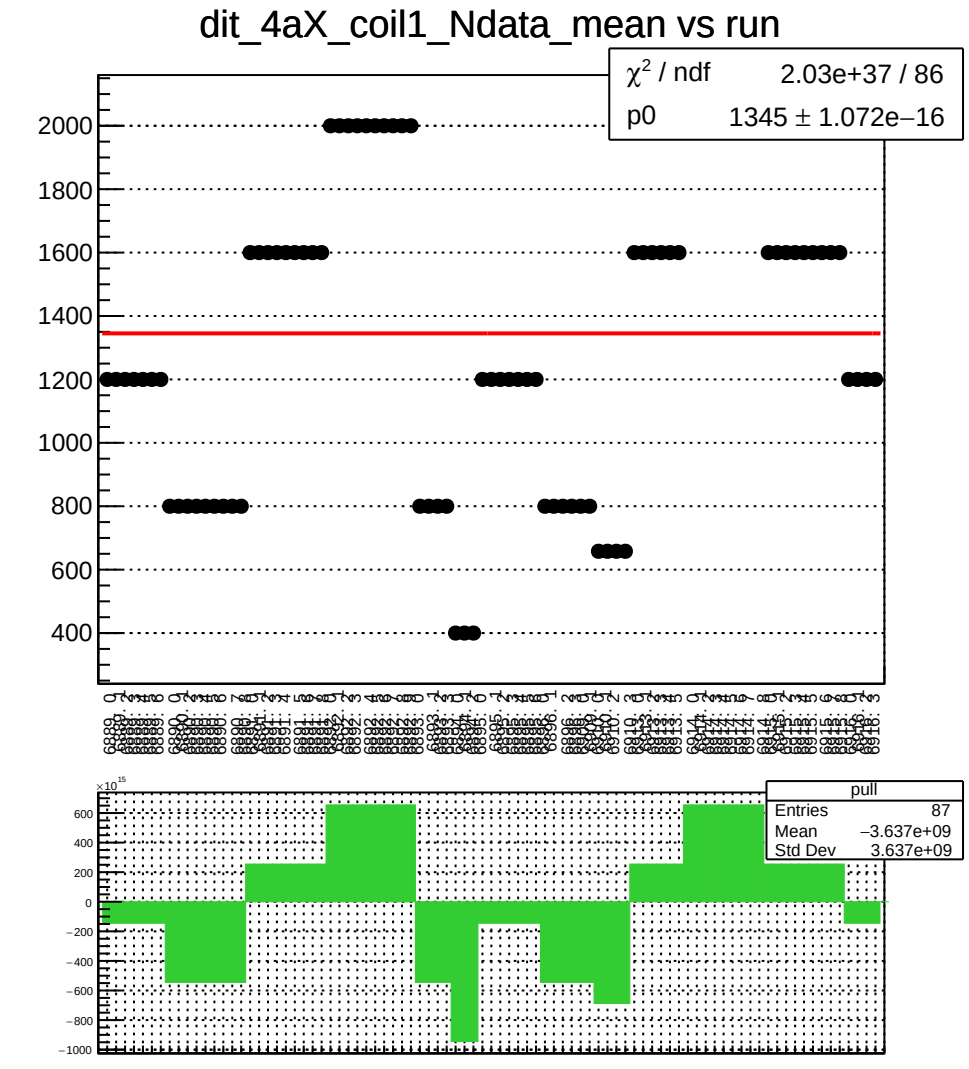

dit_sam8_4eY_slope vs run
χ² / ndf 1.964e−23 / 86
p0 54.21 ± 0.01122
54.3
54.25
54.2
54.15
54.1
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹²
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 87
Mean −4.751e−13
Std Dev 2.143e−20
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

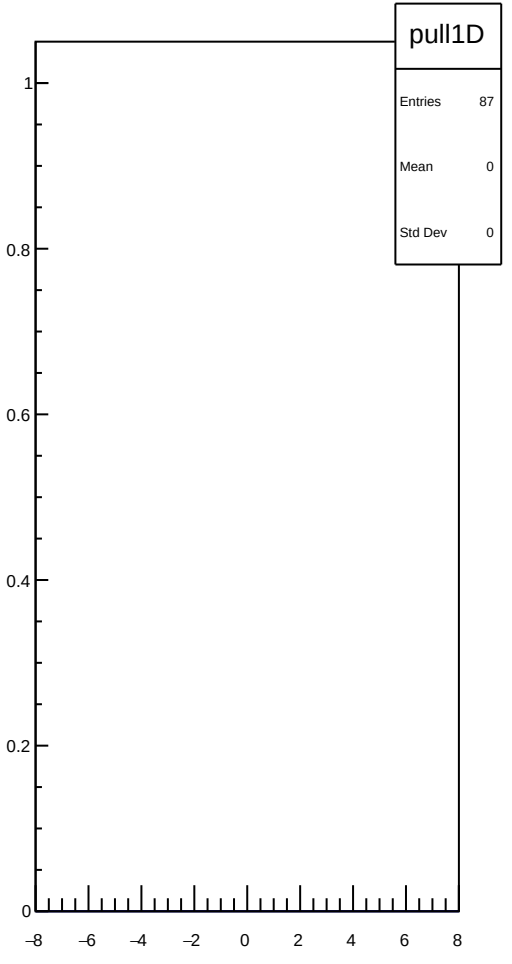

dit_4aX_coil1_mean vs run
χ² / ndf 1.707e+33 / 86
p0 −444 ± 1.072e−16
−430
−435
−440
−445
−450
−455
pull
Entries 87
Mean 8.425e+08
Std Dev 8.425e+08
×10¹²
10000
5000
0
−5000
−10000

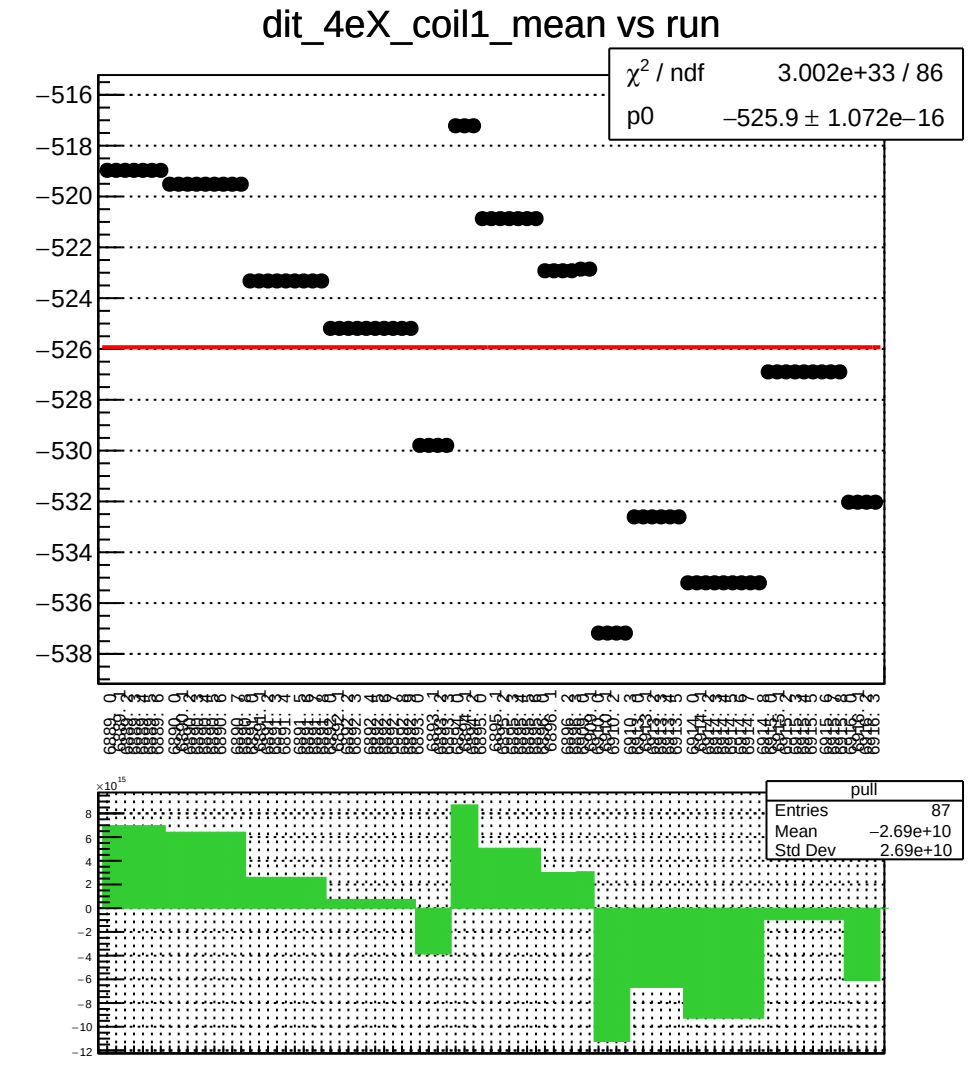

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

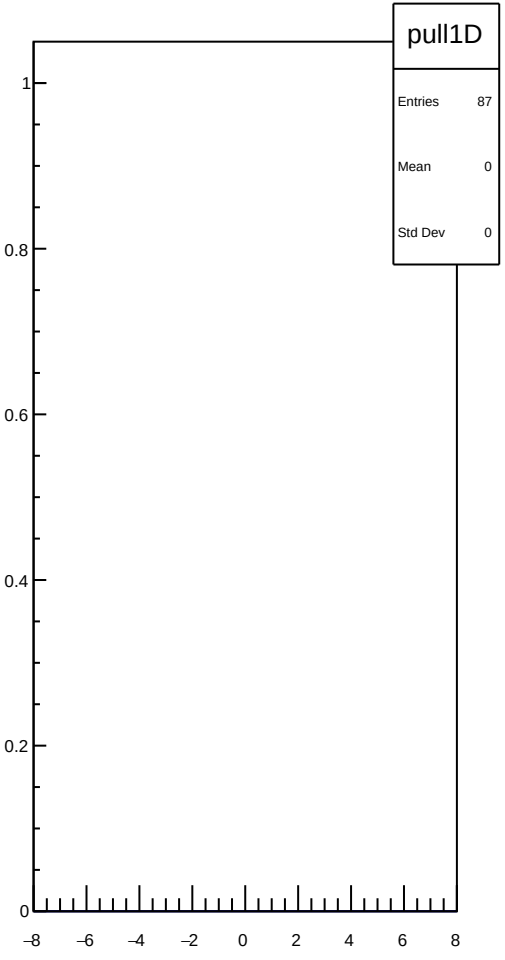

dit_4aX_coil1_err_mean vs run
χ² / ndf 1.635e+32 / 86
p0 5.27 ± 1.072e−16
pull
Entries 87
Mean 3.733e+09
Std Dev 3.733e+09

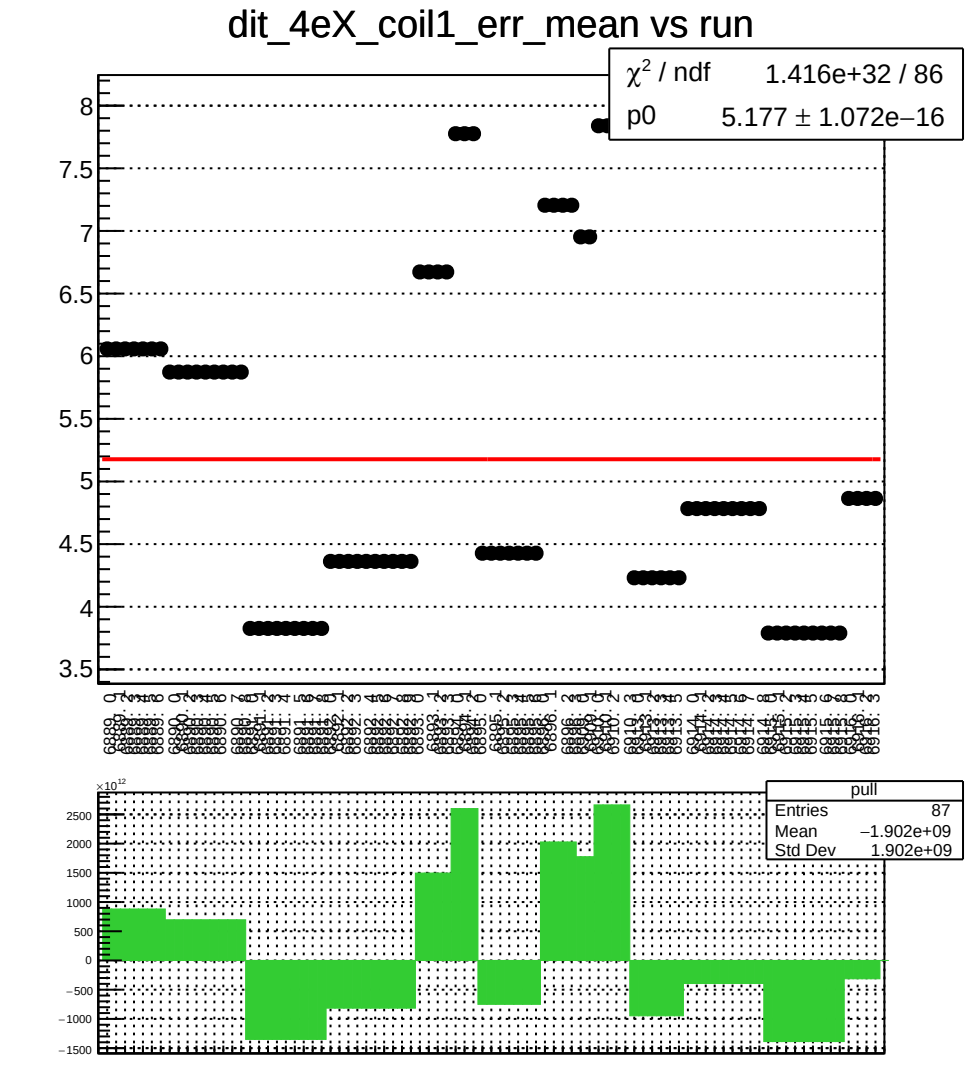

pull1D
Entries 87
Mean 0
Std Dev 0

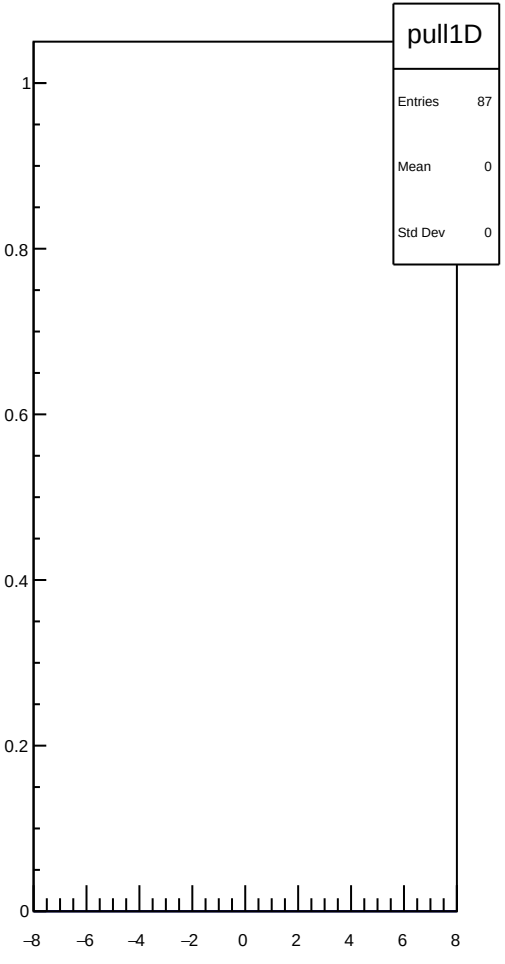

dit_4aX_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09

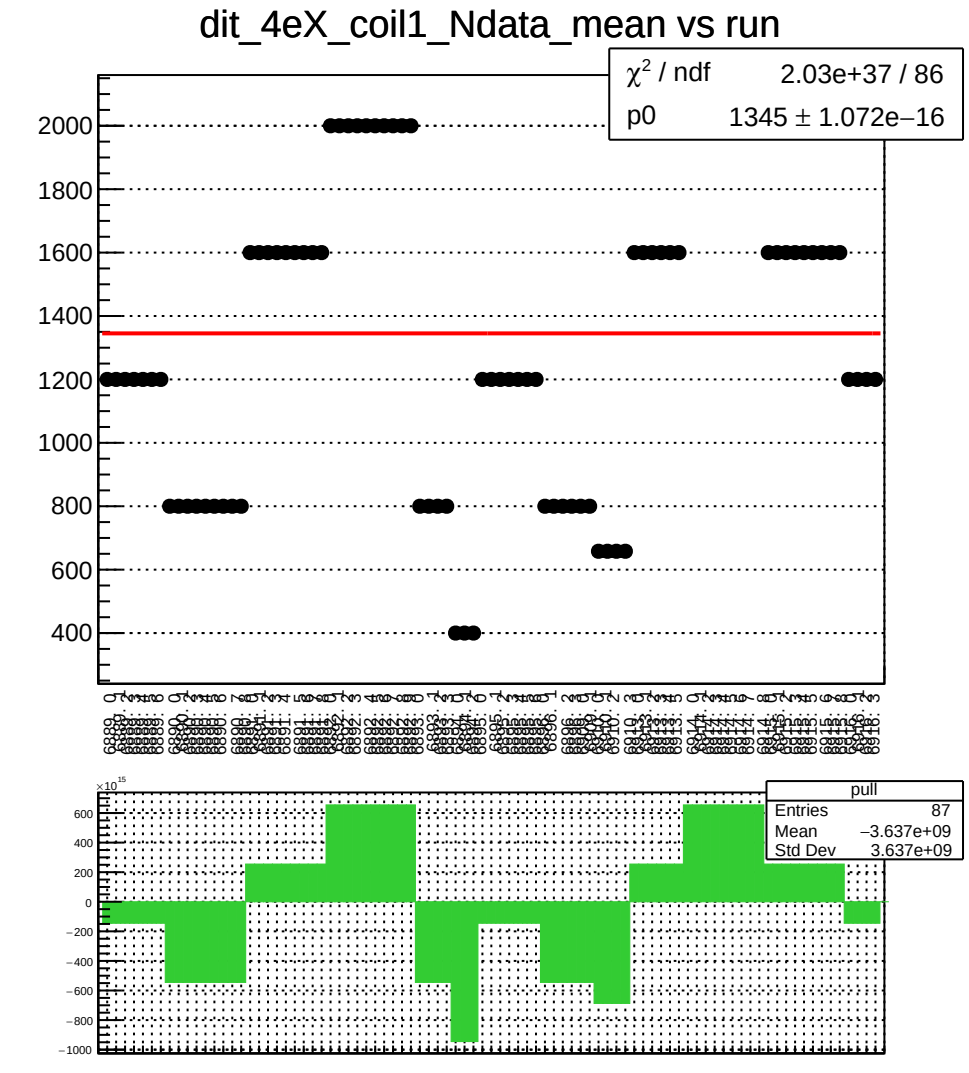

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

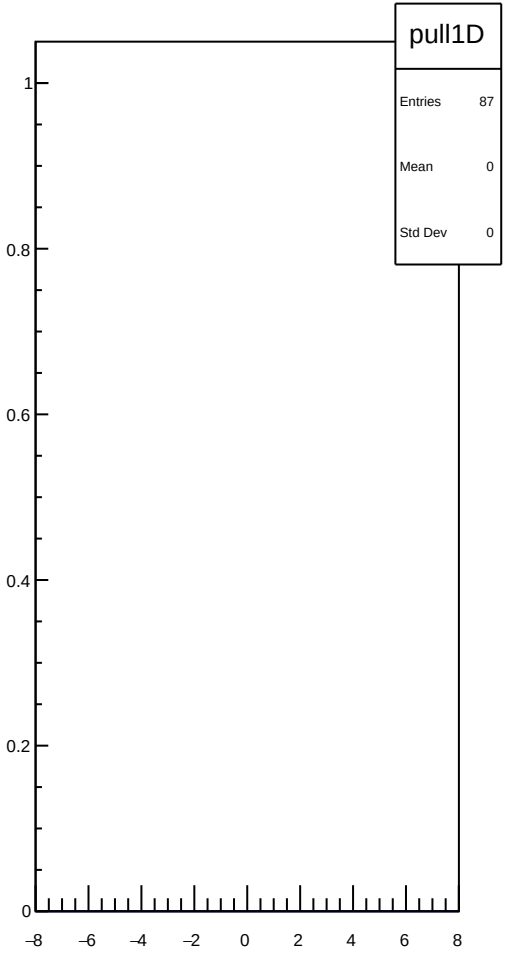

dit_4eX_coil1_mean vs run
χ² / ndf 3.002e+33 / 86
p0 −525.9 ± 1.072e−16
pull
Entries 87
Mean −2.69e+10
Std Dev 2.69e+10

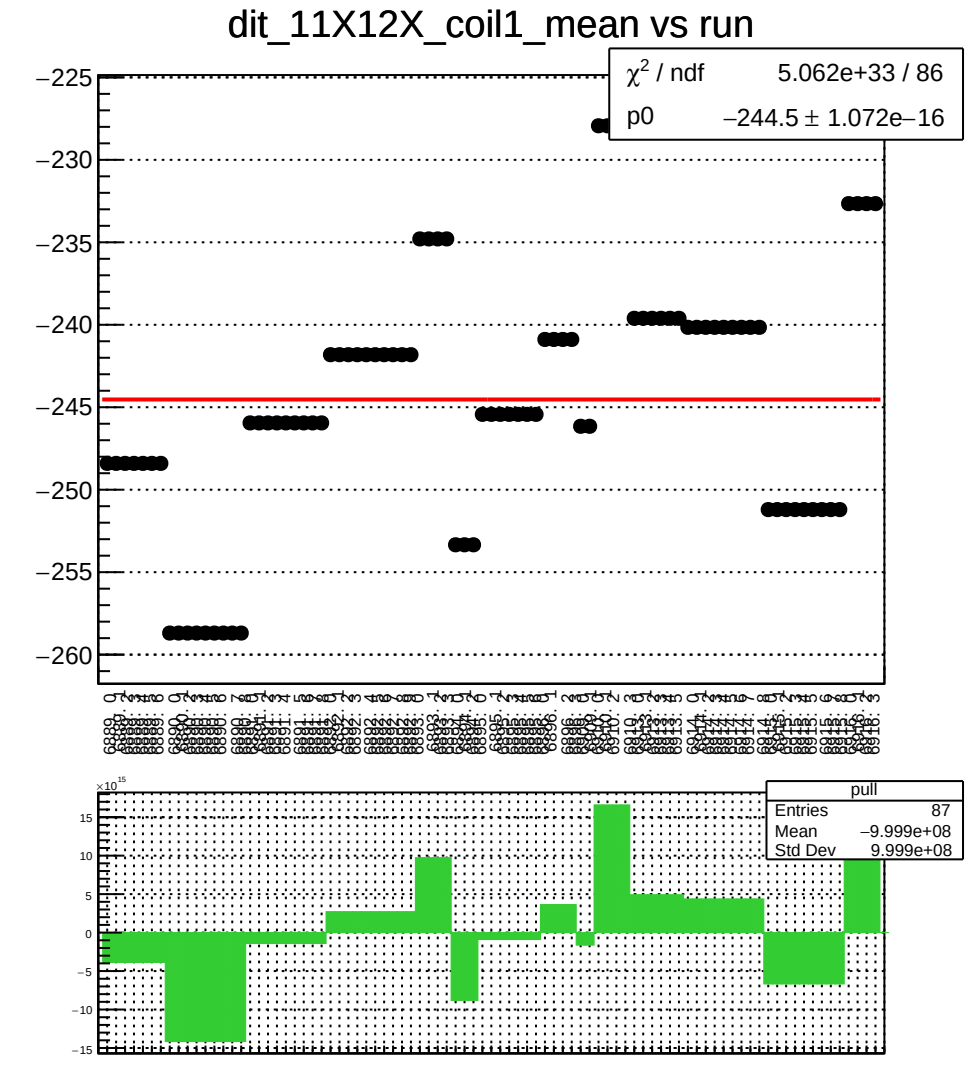

pull1D
Entries 87
Mean 0
Std Dev 0

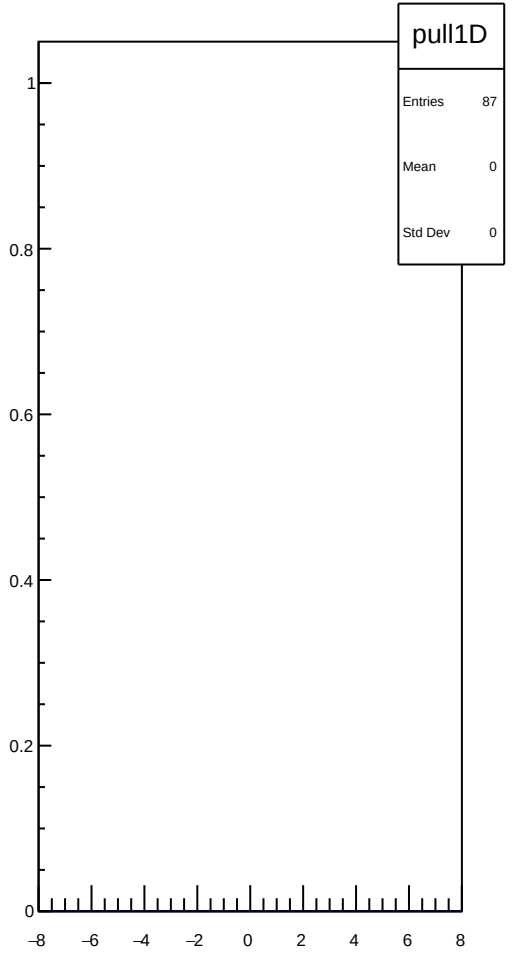

dit_4eX_coil1_err_mean vs run
χ² / ndf 1.416e+32 / 86
p0 5.177 ± 1.072e−16
pull
Entries 87
Mean −1.902e+09
Std Dev 1.902e+09

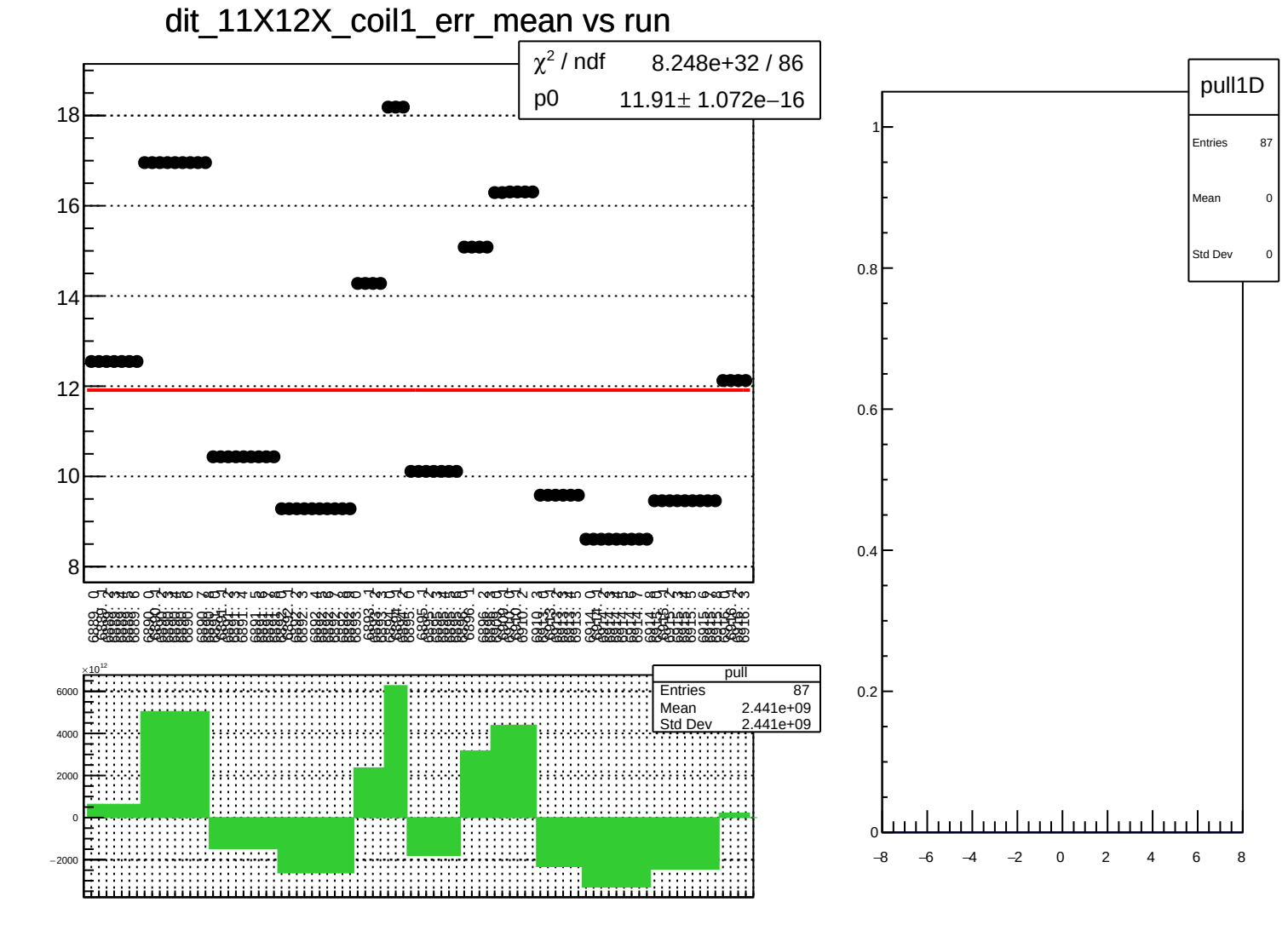

pull1D
Entries 87
Mean 0
Std Dev 0

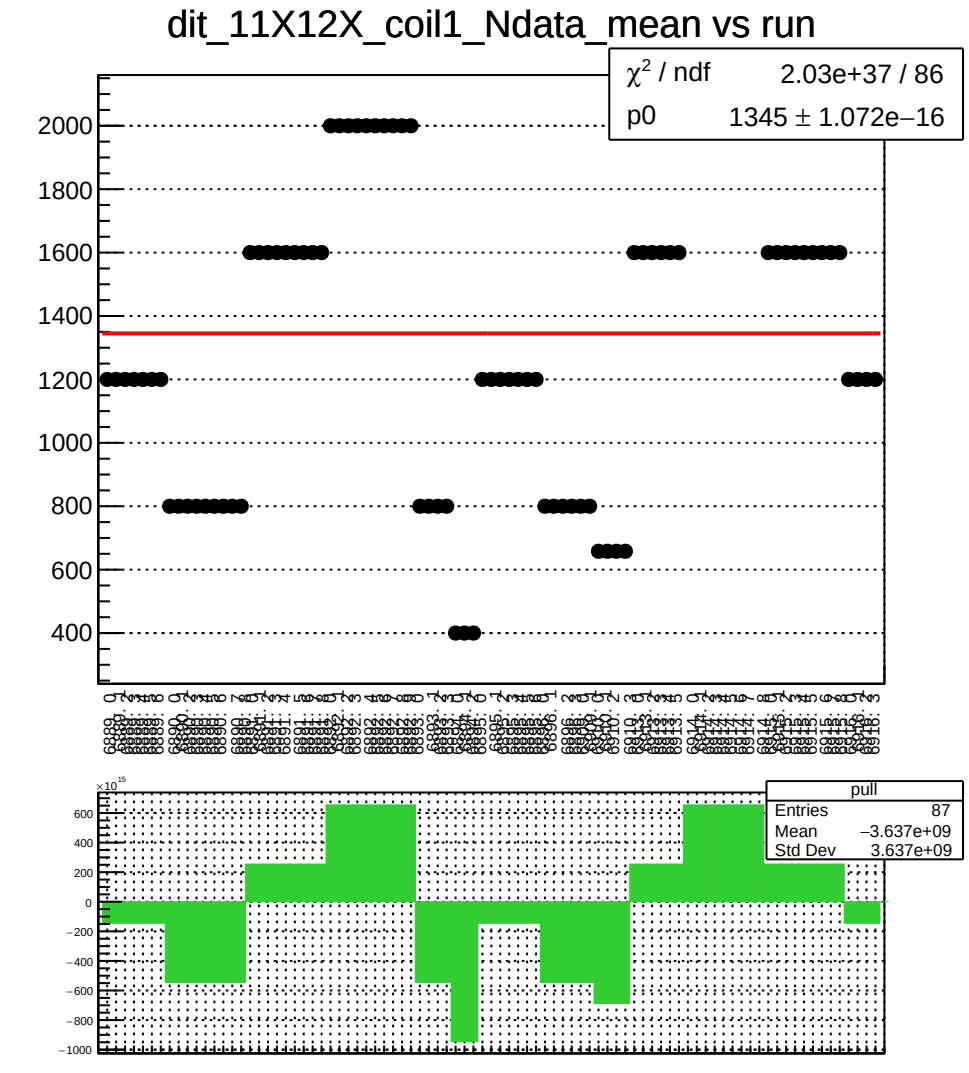

dit_4eX_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09

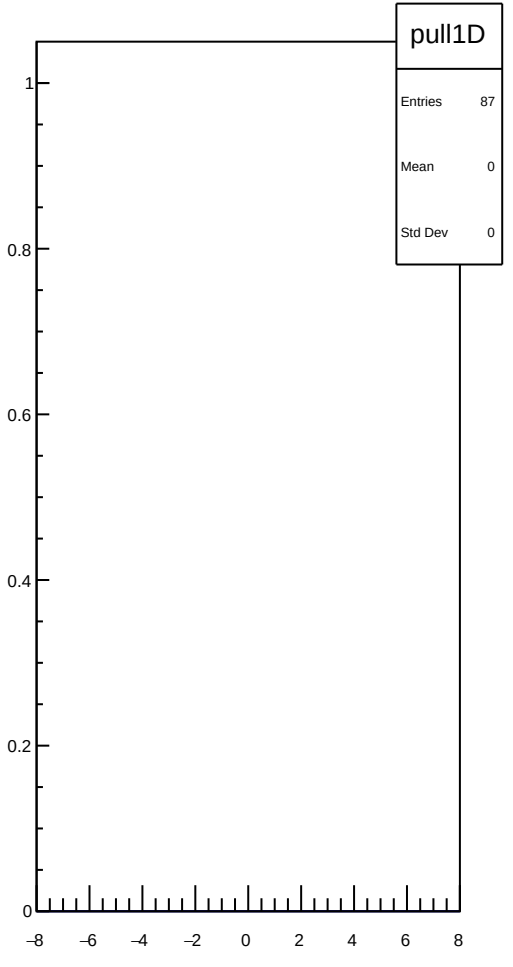

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

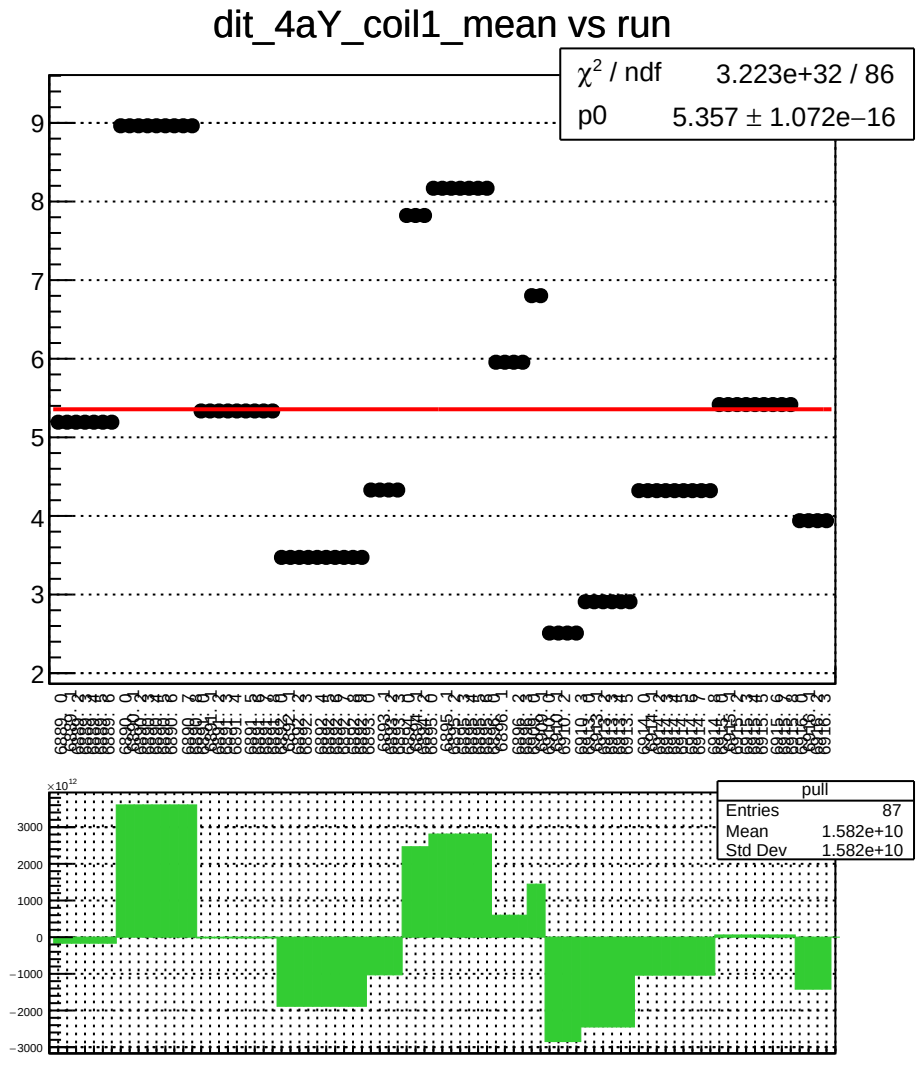

dit_11X12X_coil1_mean vs run
χ² / ndf 5.062e+33 / 86
p0 −244.5 ± 1.072e−16
pull
Entries 87
Mean −9.999e+08
Std Dev 9.999e+08

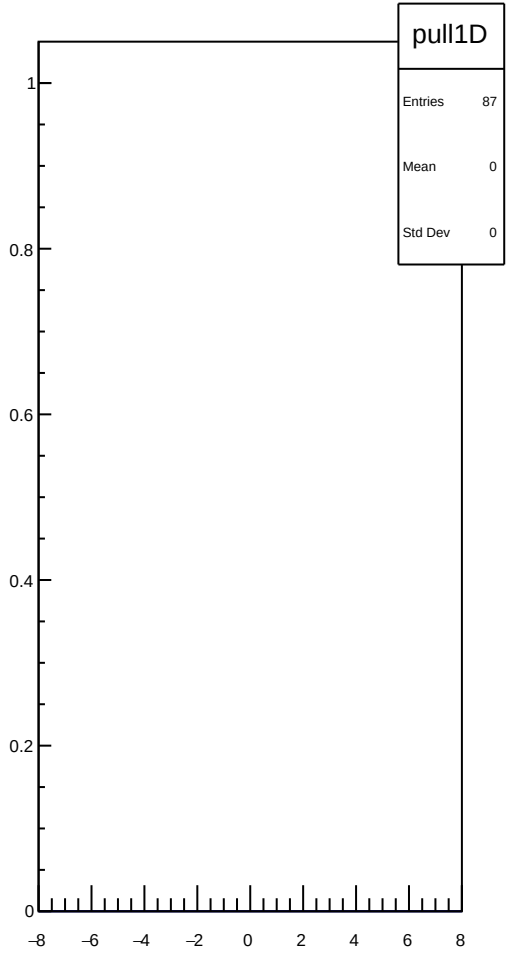

pull1D
Entries 87
Mean 0
Std Dev 0

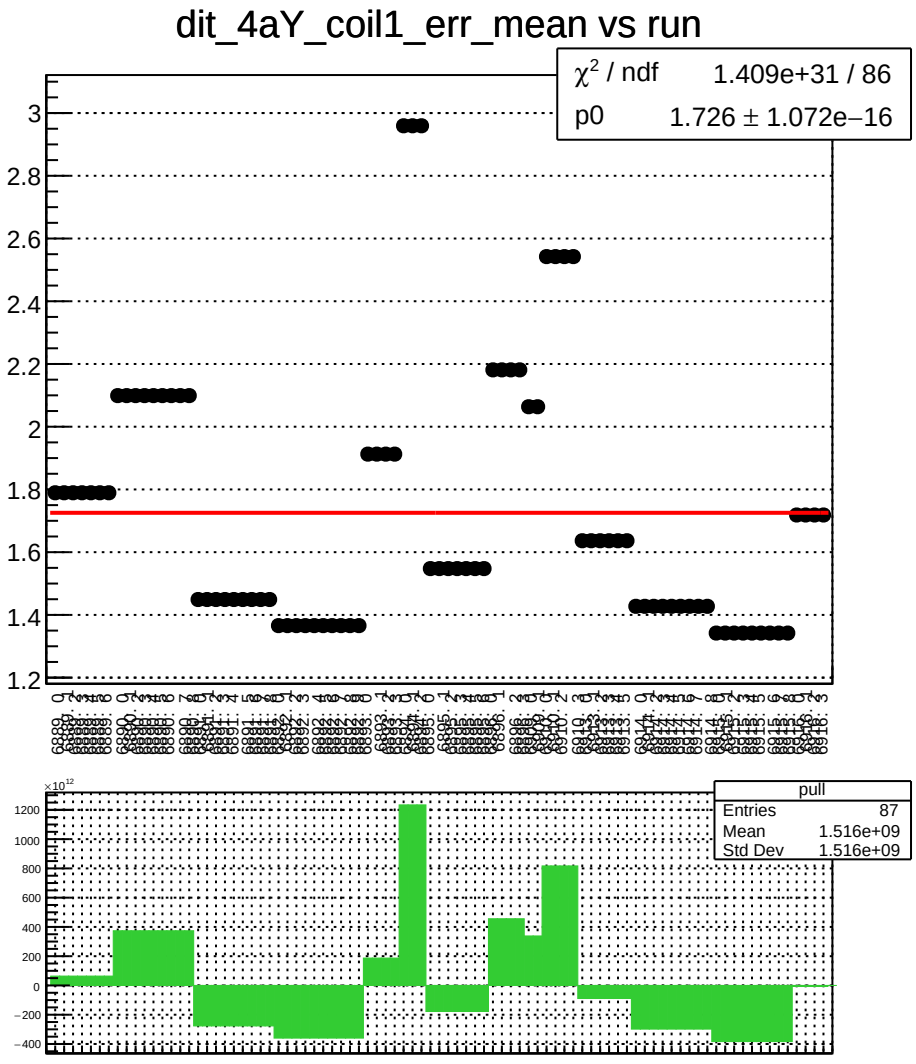

dit_11X12X_coil1_err_mean vs run
χ² / ndf 8.248e+32 / 86
p0 11.91± 1.072e−16
pull
Entries 87
Mean 2.441e+09
Std Dev 2.441e+09
pull1D
Entries 87
Mean 0
Std Dev 0

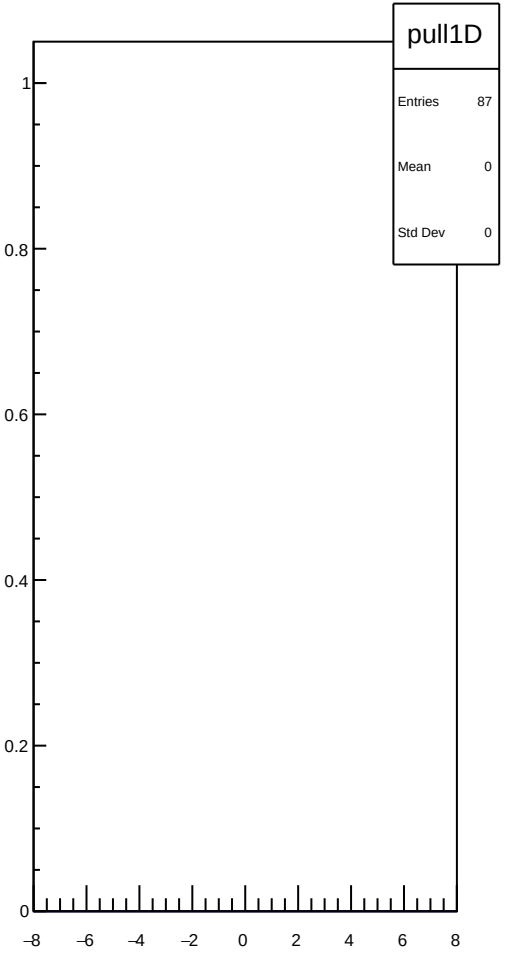

dit_11X12X_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

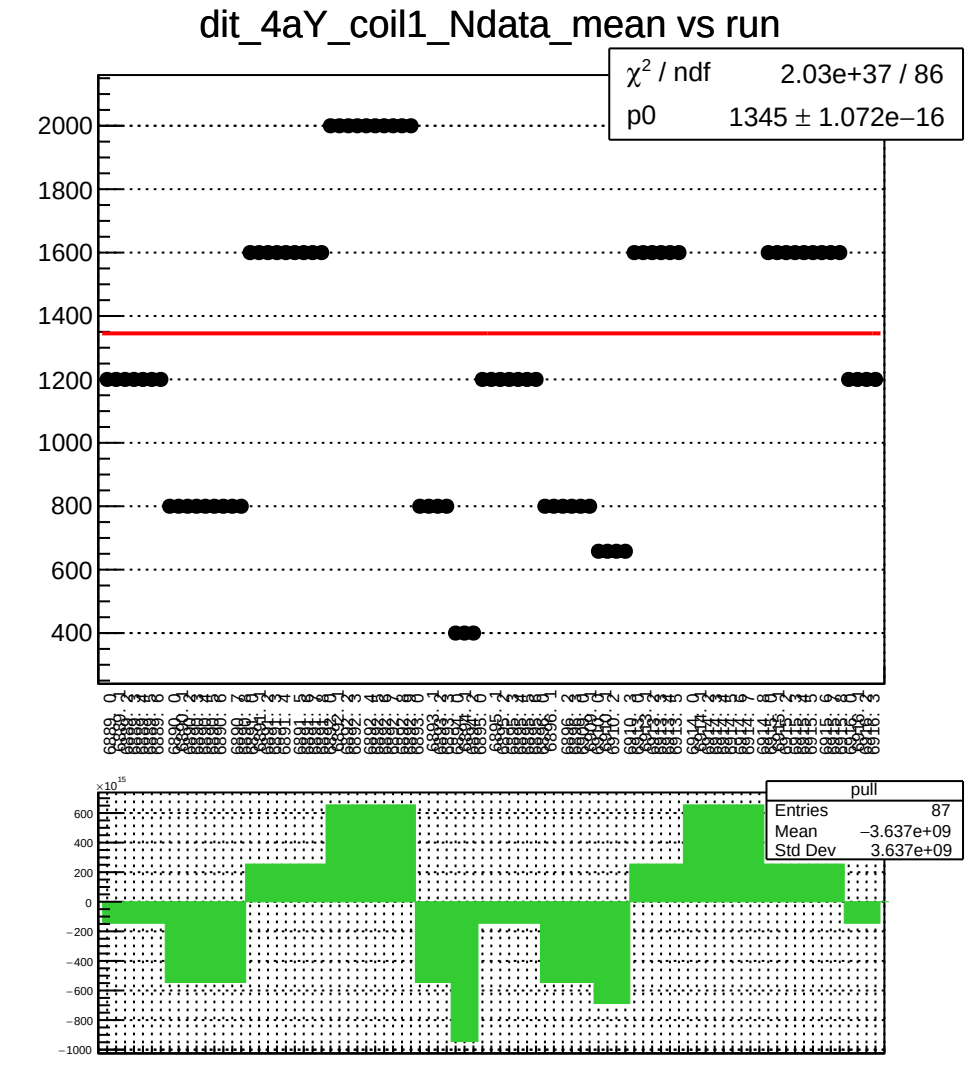

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

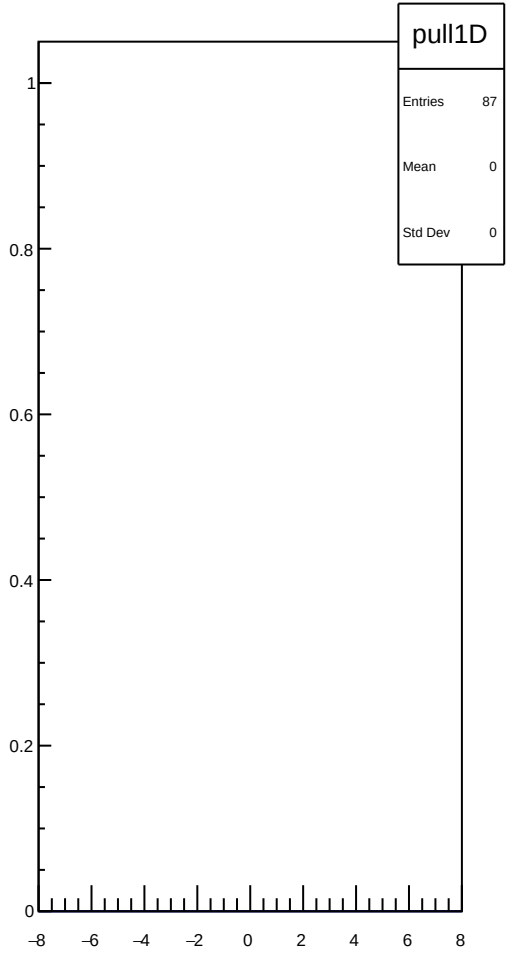

dit_4aY_coil1_mean vs run
χ² / ndf 3.223e+32 / 86
p0 5.357 ± 1.072e−16
pull
Entries 87
Mean 1.582e+10
Std Dev 1.582e+10

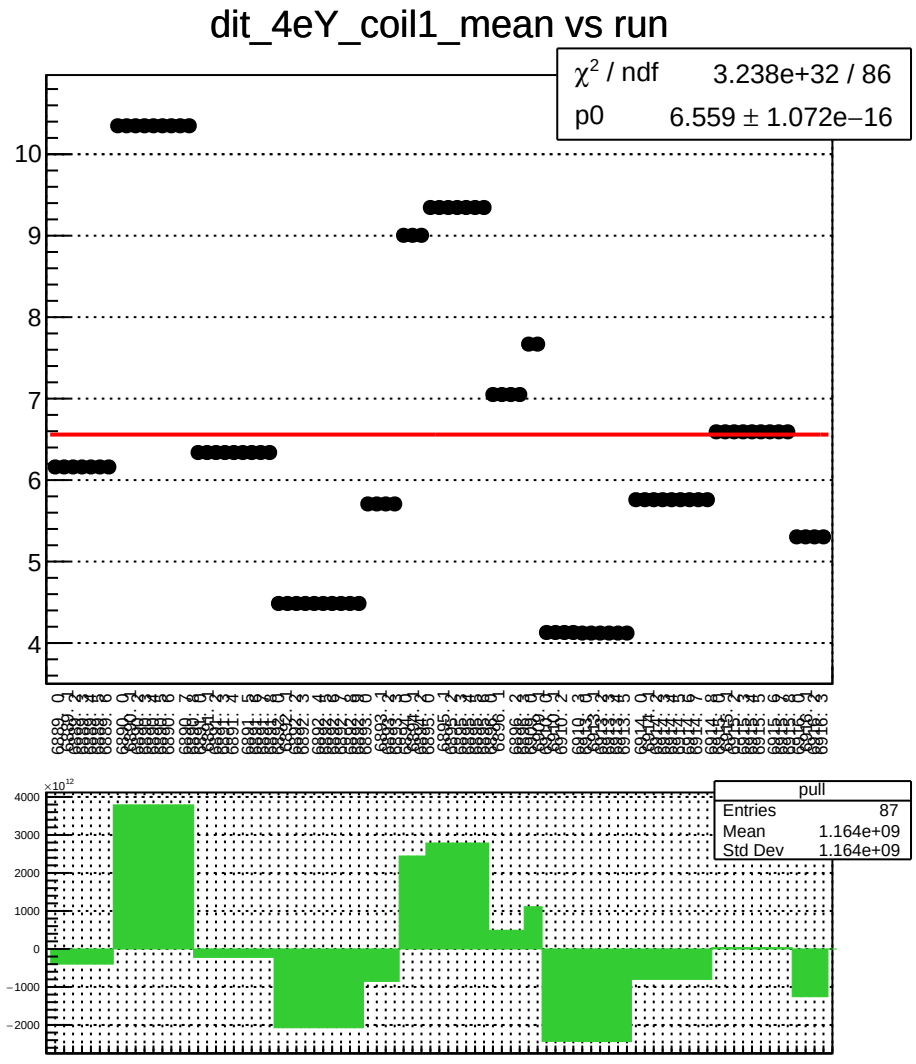

pull1D
Entries 87
Mean 0
Std Dev 0

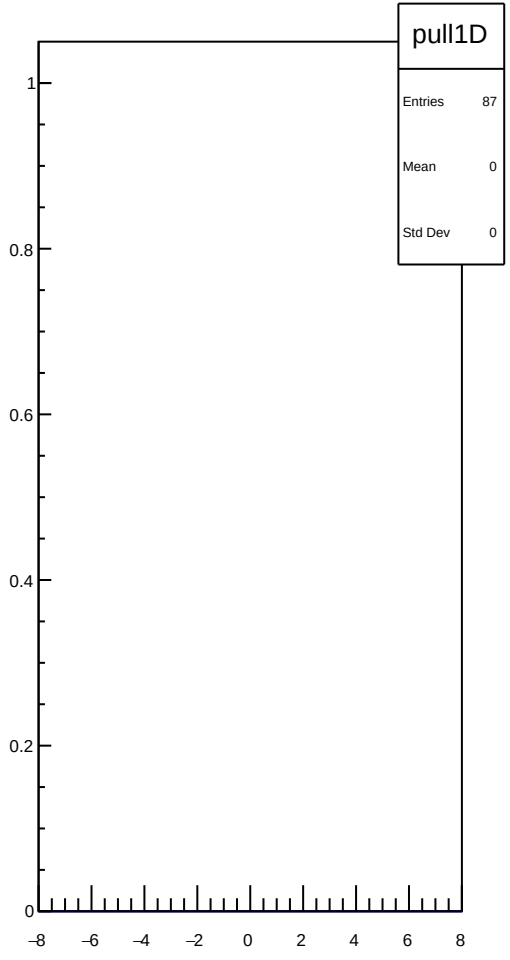

dit_4aY_coil1_err_mean vs run
χ² / ndf 1.409e+31 / 86
p0 1.726 ± 1.072e−16
pull
Entries 87
Mean 1.516e+09
Std Dev 1.516e+09

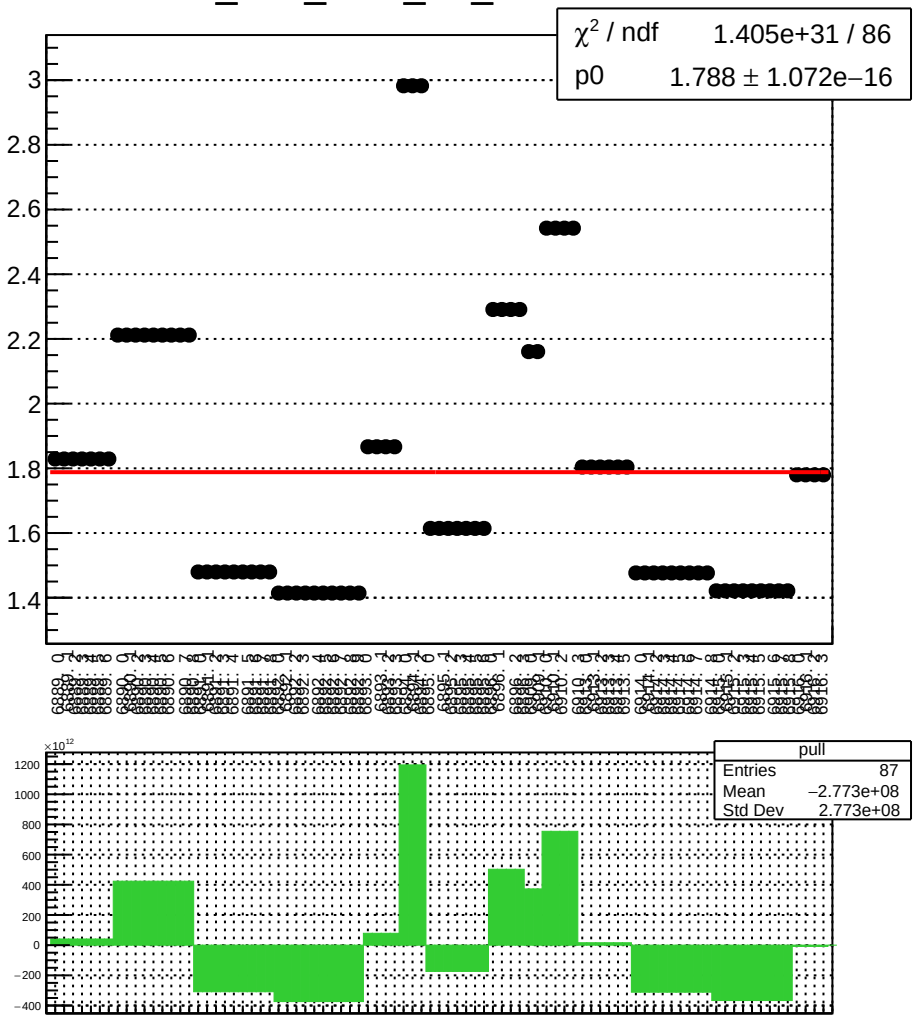

pull1D
Entries 87
Mean 0
Std Dev 0

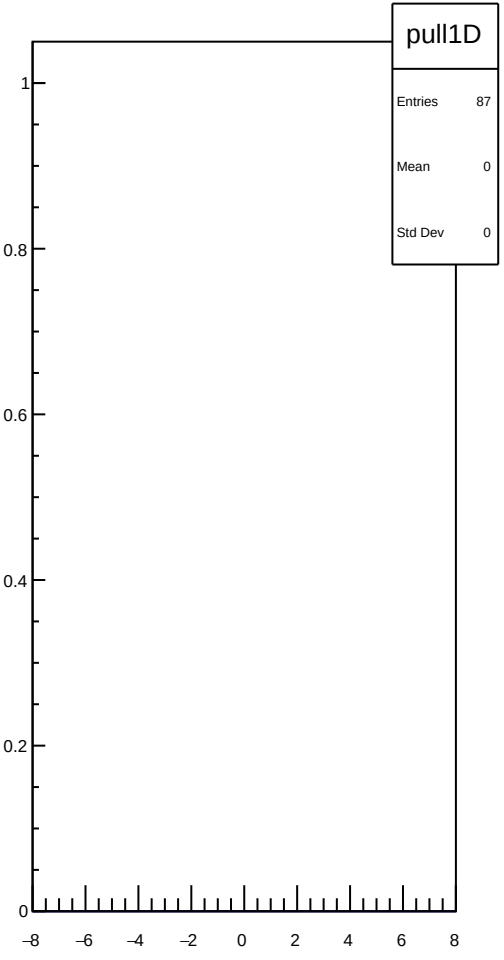

dit_4aY_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

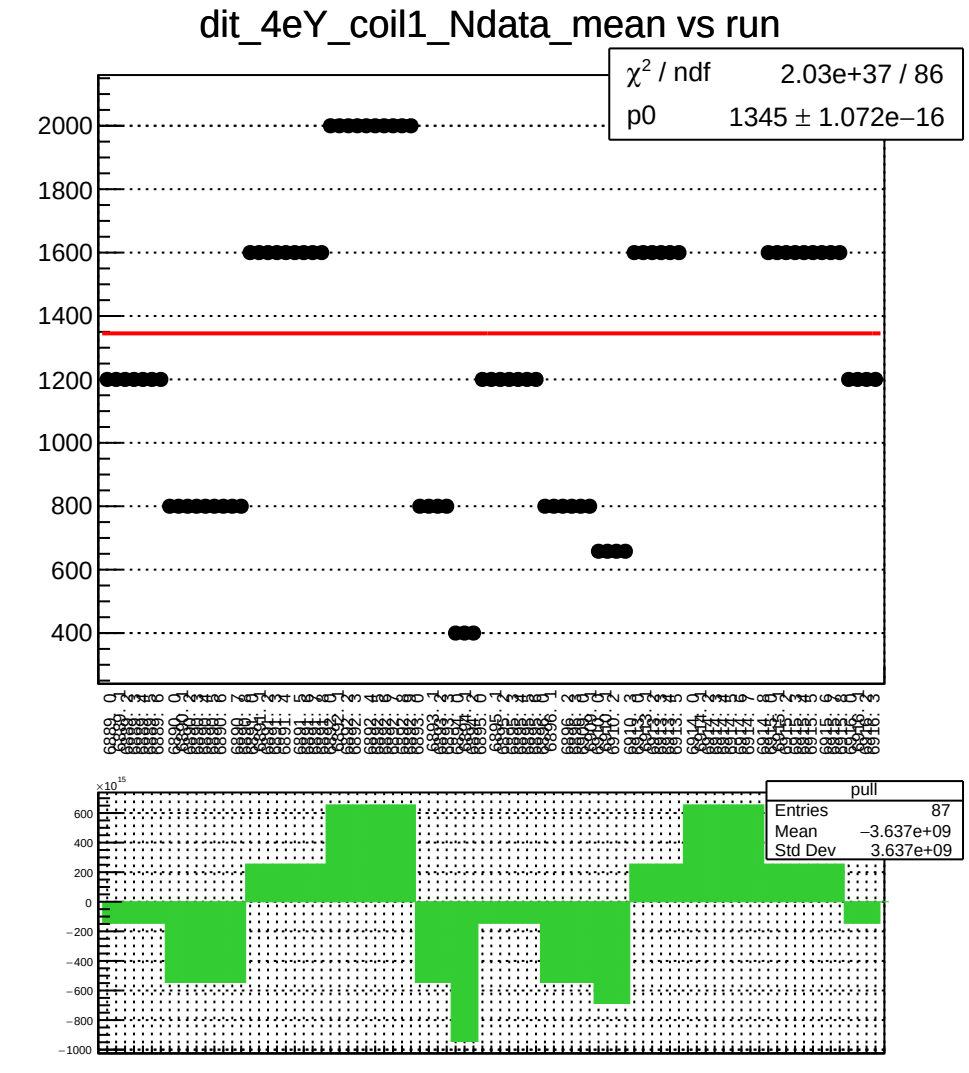

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

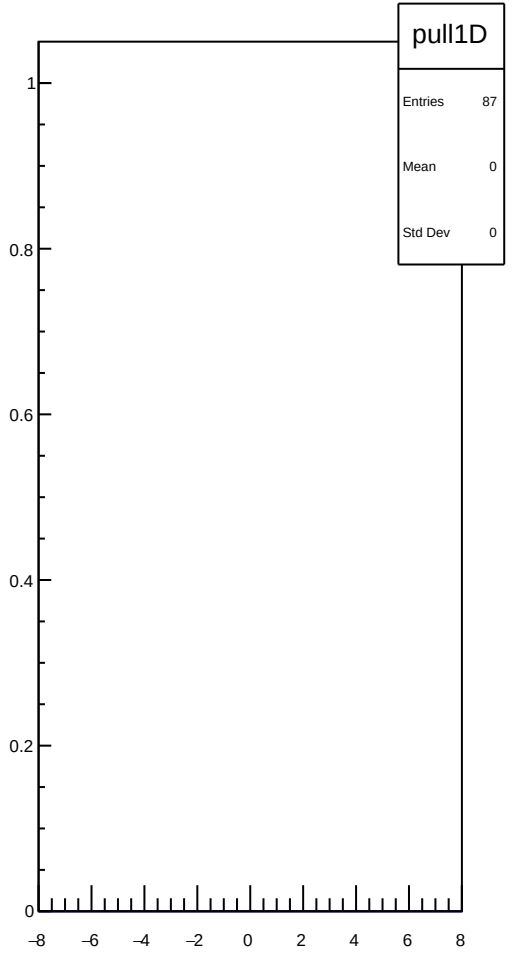

dit_4eY_coil1_mean vs run
χ² / ndf 3.238e+32 / 86
p0 6.559 ± 1.072e−16
pull
Entries 87
Mean 1.164e+09
Std Dev 1.164e+09

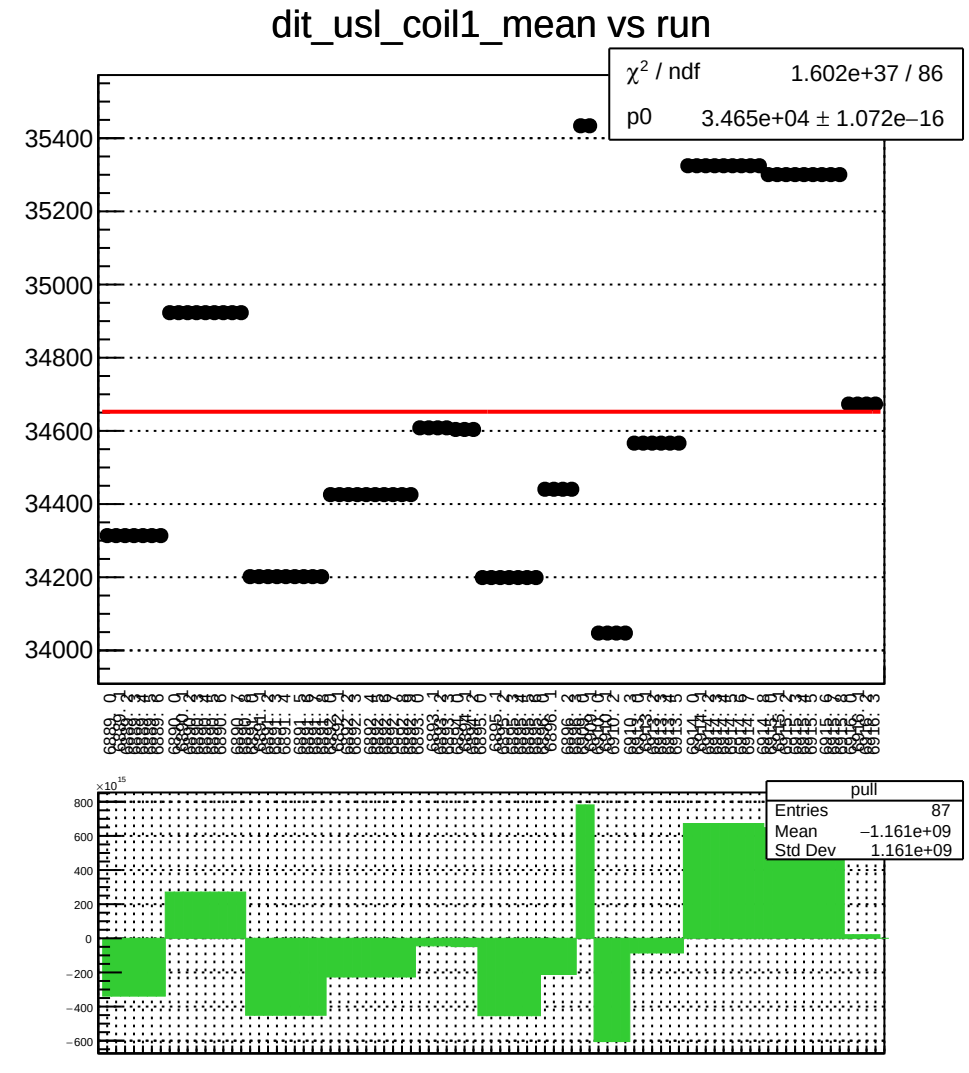

pull1D
Entries 87
Mean 0
Std Dev 0

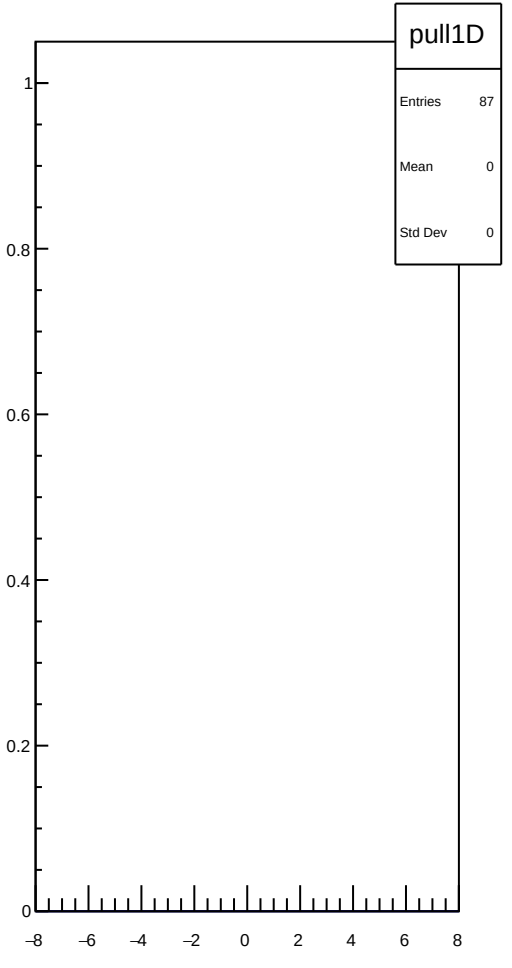

dit_4eY_coil1_err_mean vs run
χ² / ndf 1.405e+31 / 86
p0 1.788 ± 1.072e−16
pull
Entries 87
Mean −2.773e+08
Std Dev 2.773e+08
×10¹²

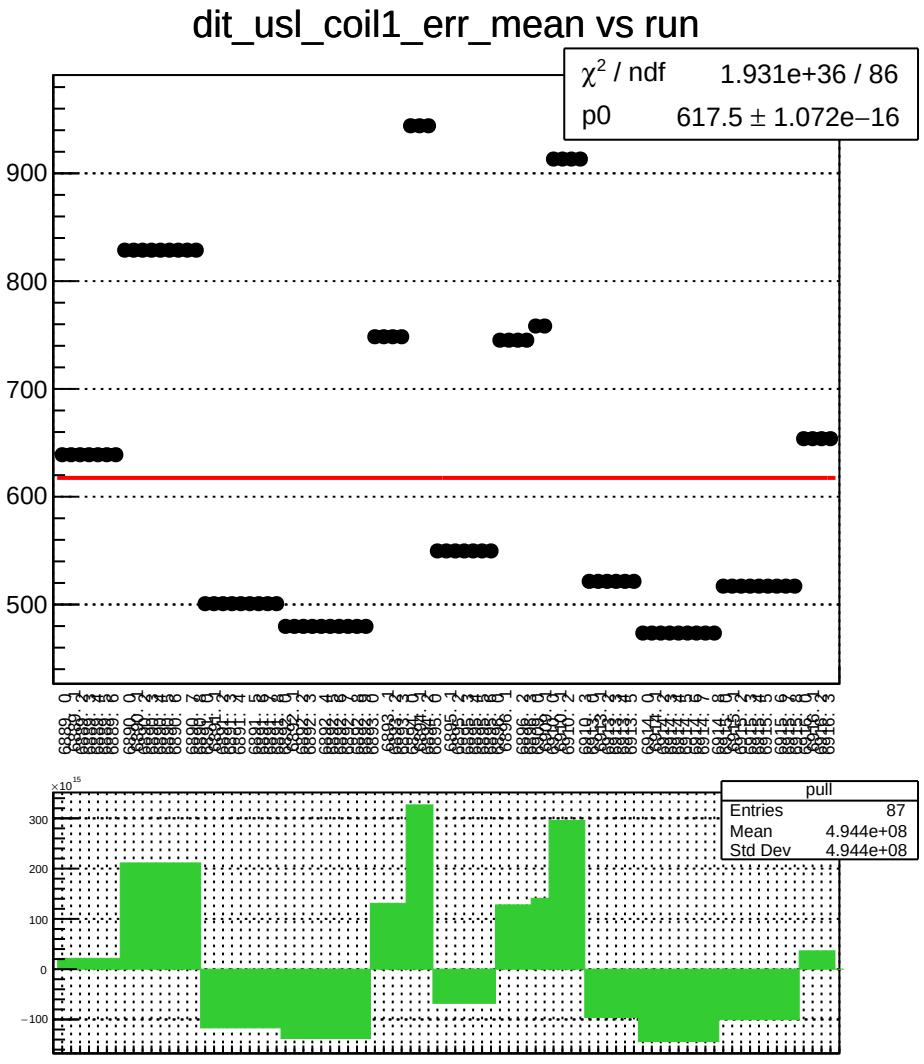

pull1D
Entries 87
Mean 0
Std Dev 0

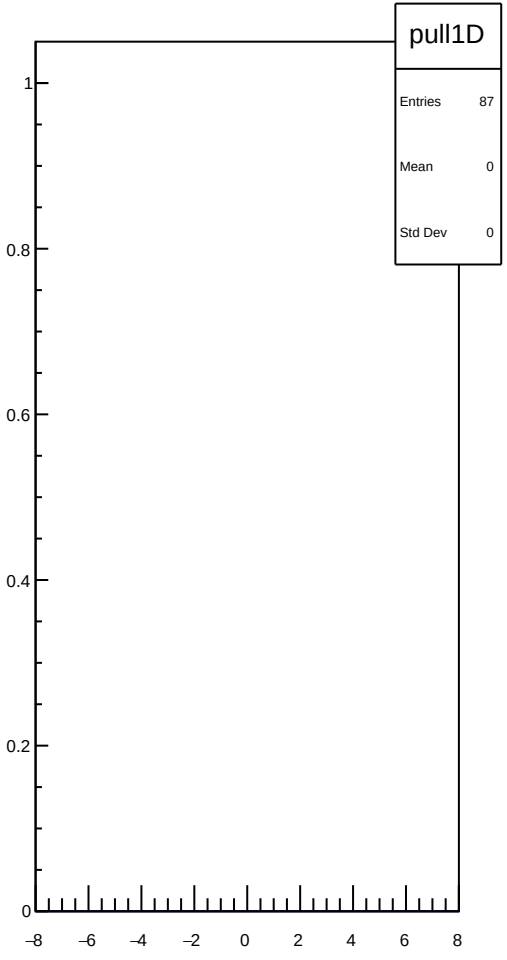

dit_4eY_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

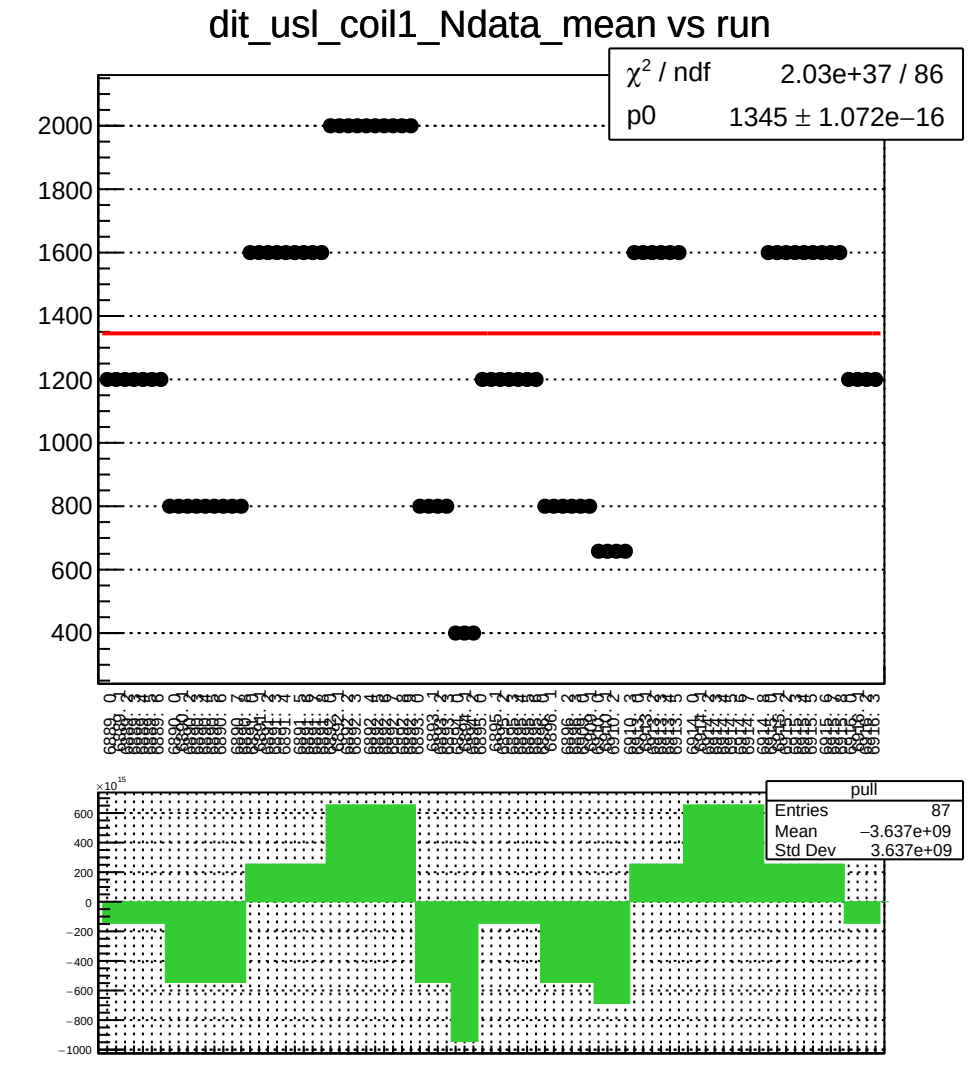

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

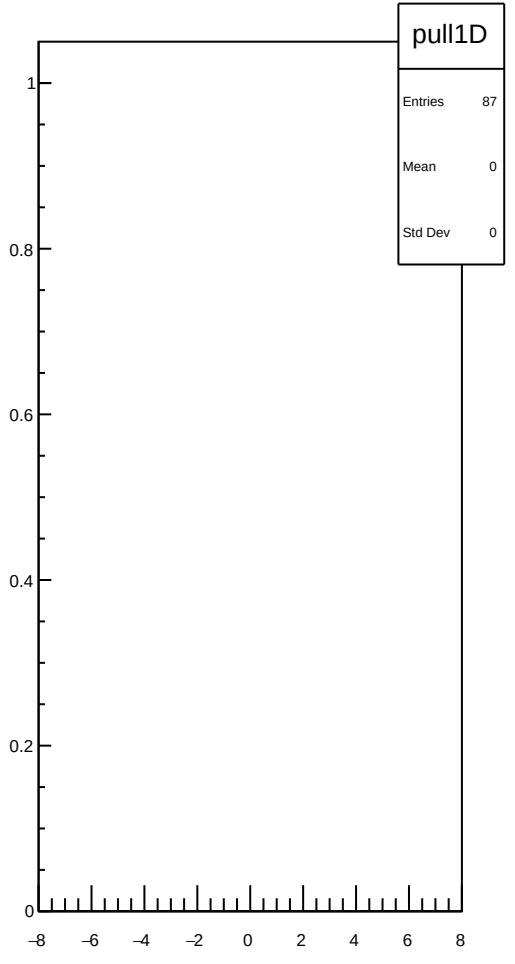

dit_usl_coil1_mean vs run
χ² / ndf 1.602e+37 / 86
p0 3.465e+04 ± 1.072e−16
35400
35200
35000
34800
34600
34400
34200
34000
pull
Entries 87
Mean −1.161e+09
Std Dev 1.161e+09
×10¹⁵
800
600
400
200
0
−200
−400
−600

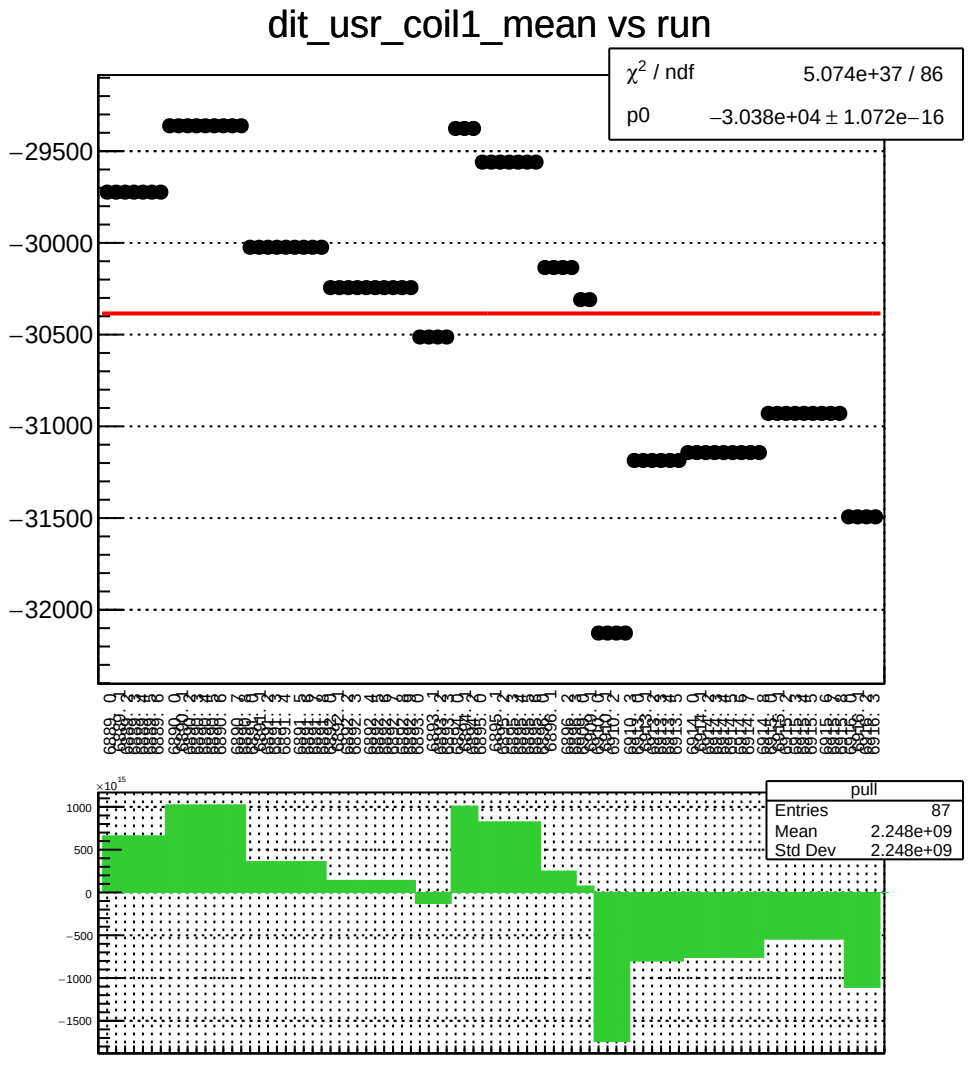

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

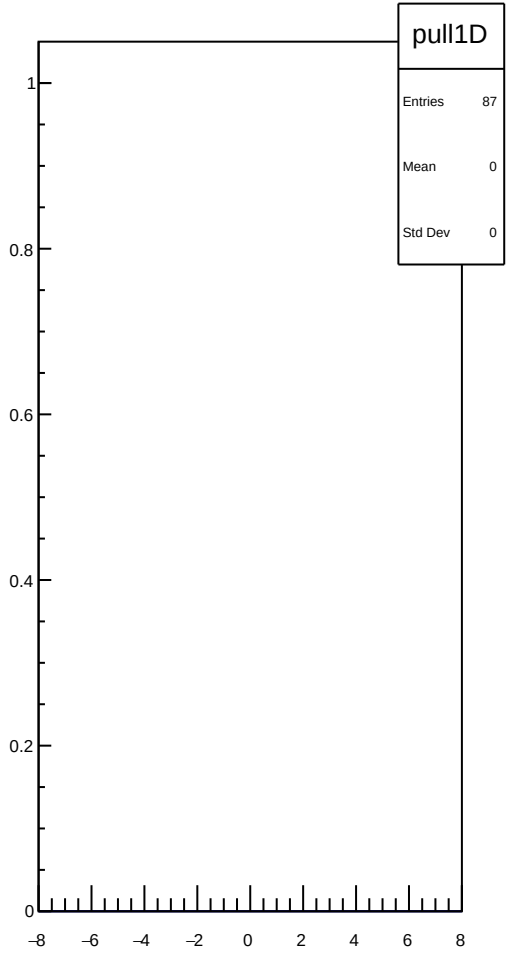

dit_usl_coil1_err_mean vs run
χ² / ndf 1.931e+36 / 86
p0 617.5 ± 1.072e−16
900
800
700
600
500
×10¹⁵
300
200
100
0
−100
pull
Entries 87
Mean 4.944e+08
Std Dev 4.944e+08

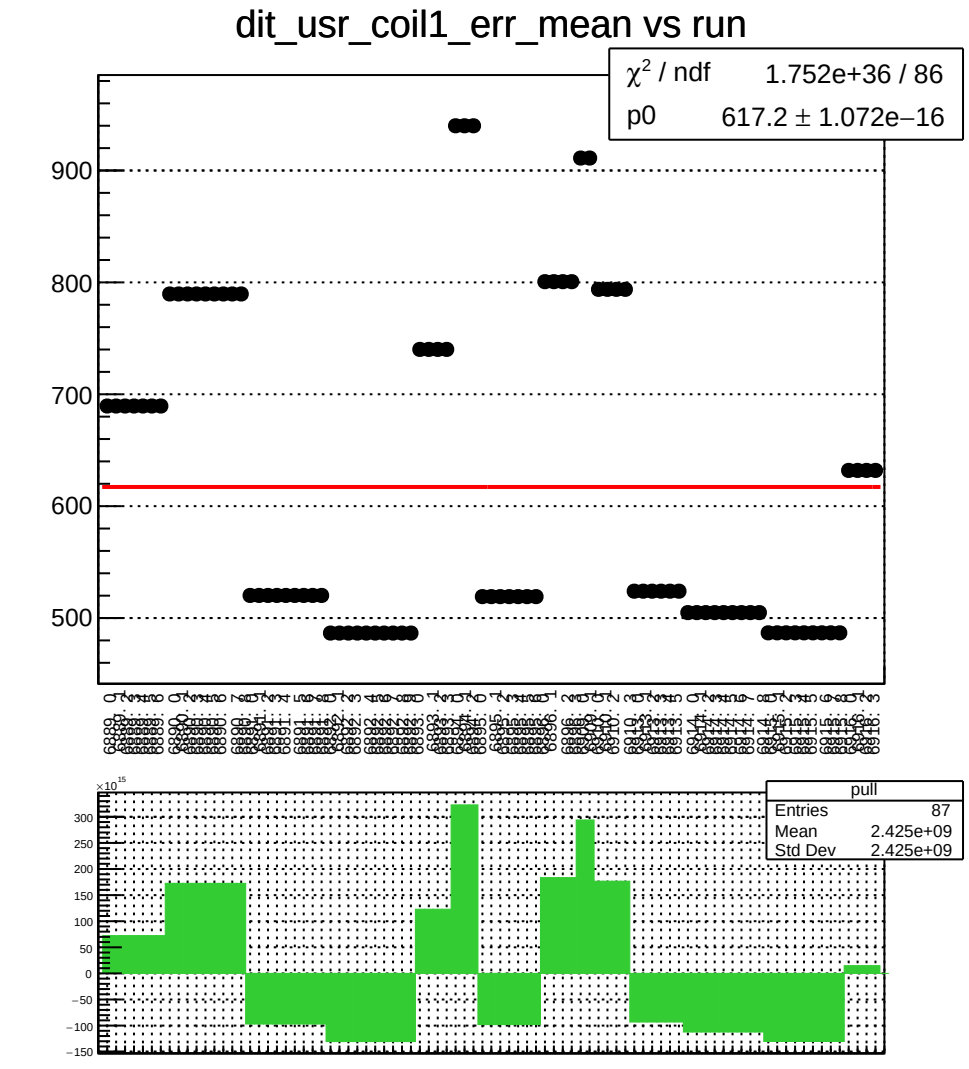

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

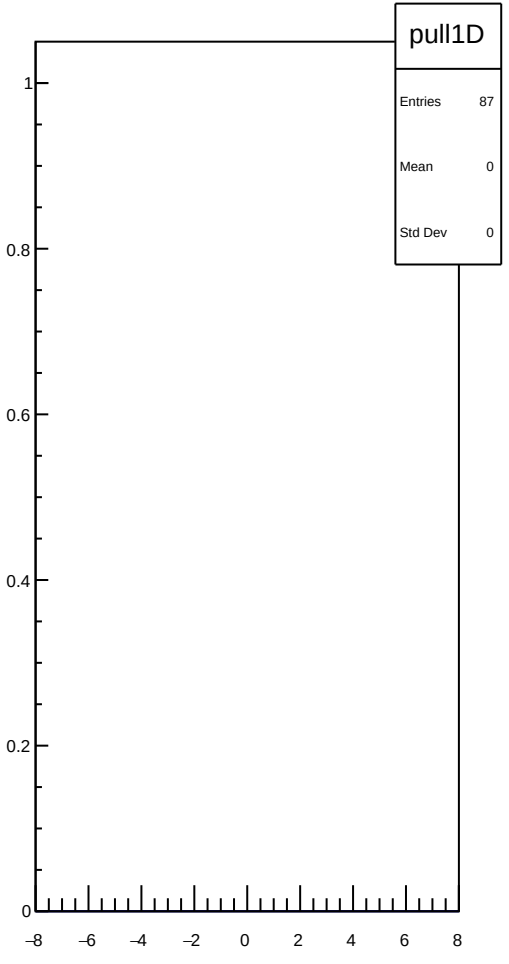

dit_usl_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

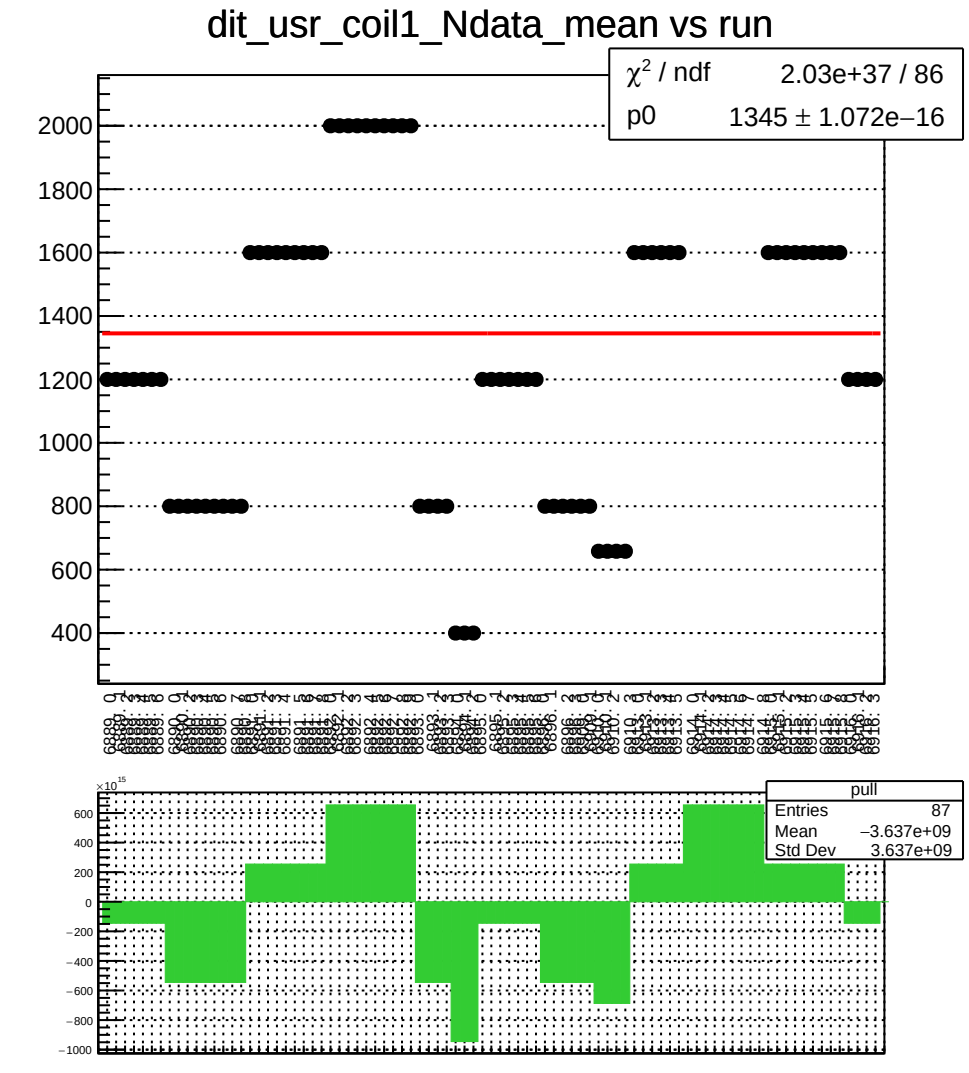

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

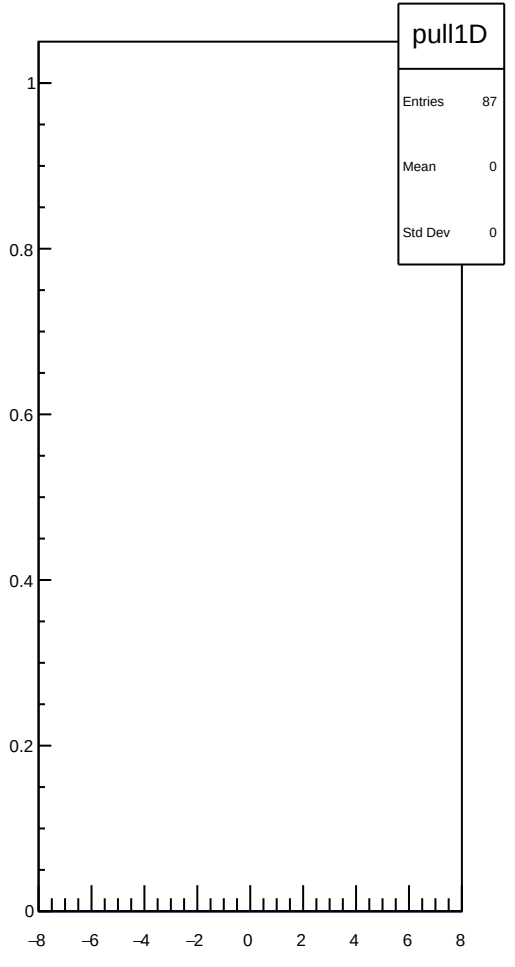

dit_usr_coil1_mean vs run
χ² / ndf 5.074e+37 / 86
p0 −3.038e+04 ± 1.072e−16
−29500
−30000
−30500
−31000
−31500
−32000
pull
Entries 87
Mean 2.248e+09
Std Dev 2.248e+09
×10¹⁵
1000
500
0
−500
−1000
−1500

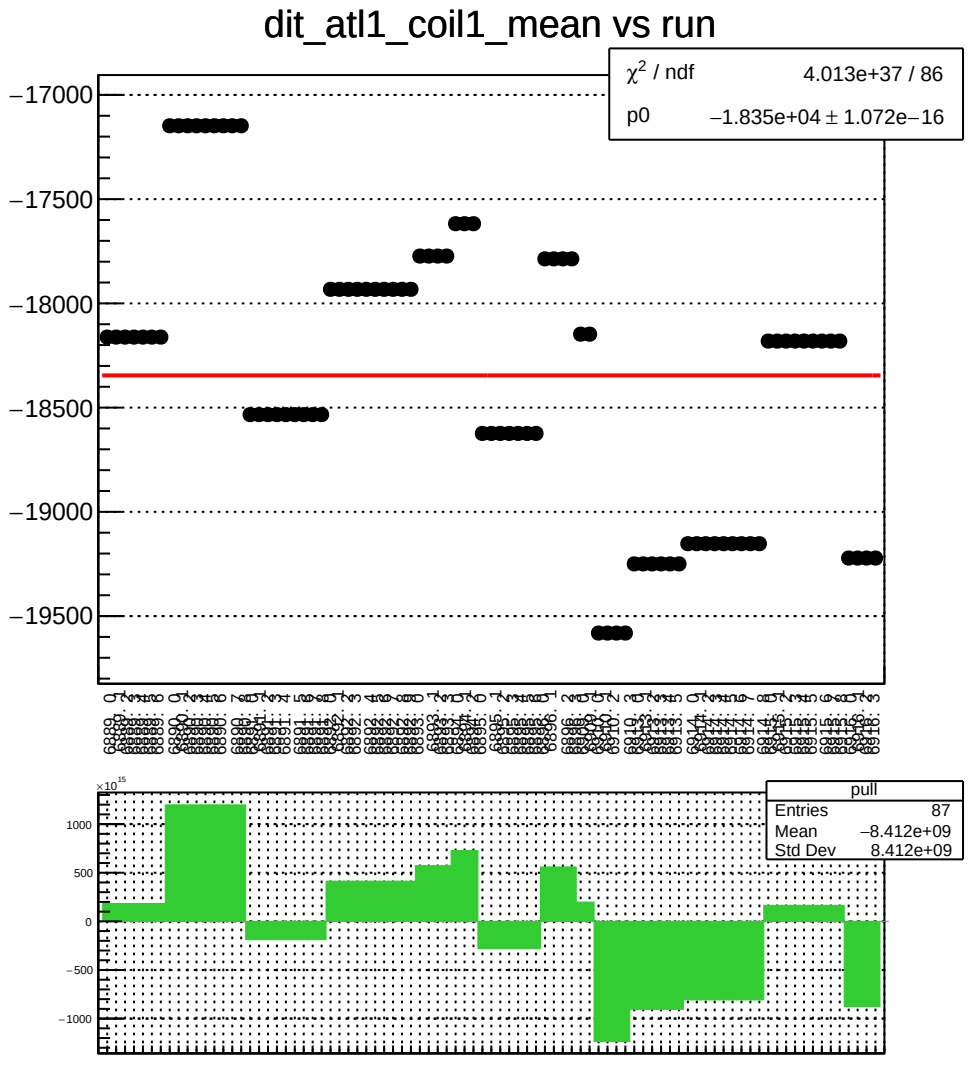

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

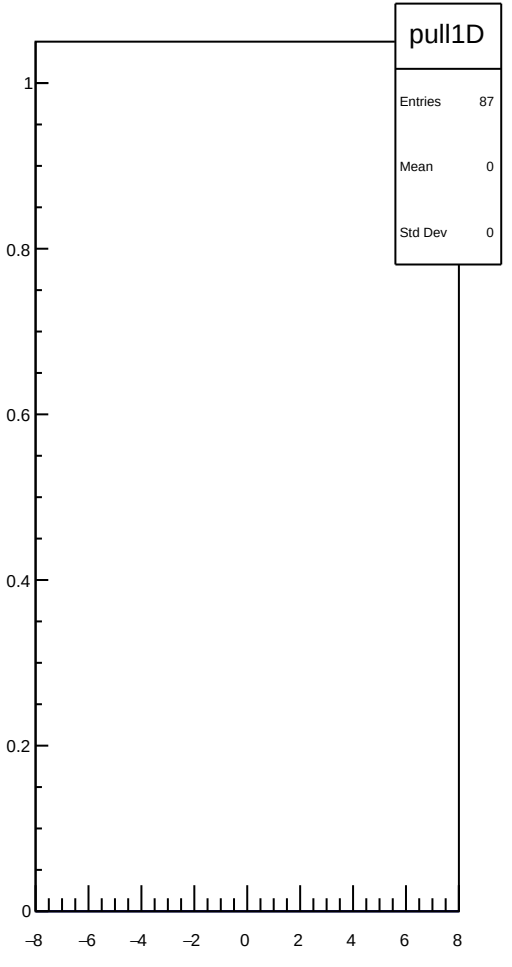

dit_usr_coil1_err_mean vs run
χ² / ndf 1.752e+36 / 86
p0 617.2 ± 1.072e−16
900
800
700
600
500
pull
Entries 87
Mean 2.425e+09
Std Dev 2.425e+09
×10¹⁵
300
250
200
150
100
50
0
−50
−100
−150

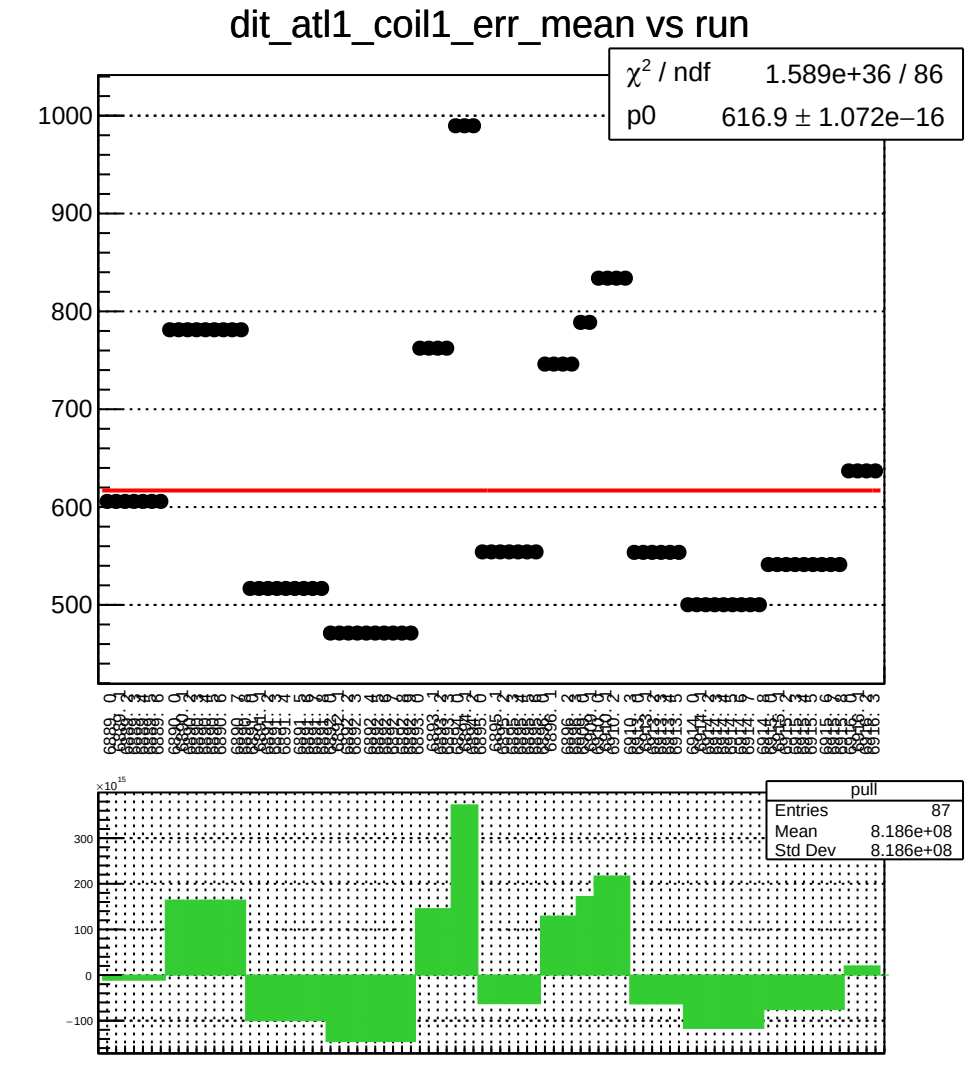

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

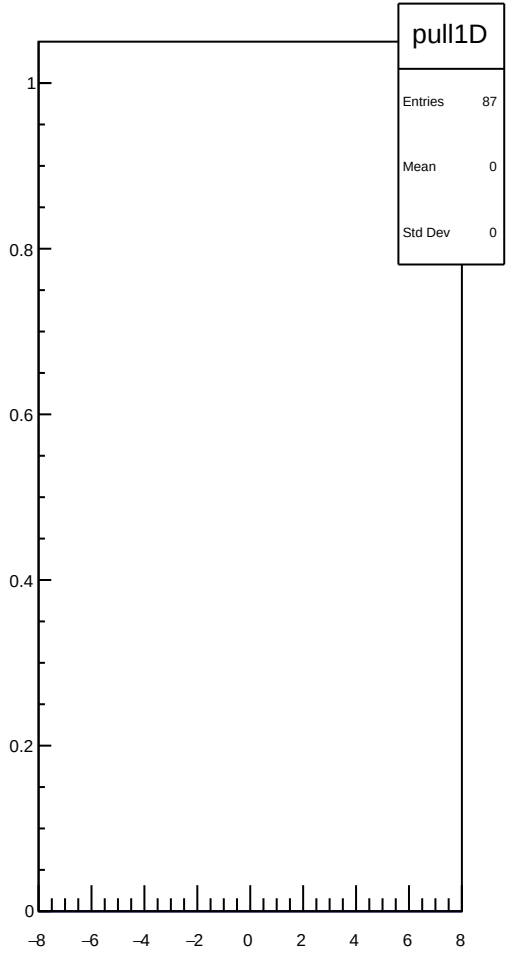

dit_usr_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

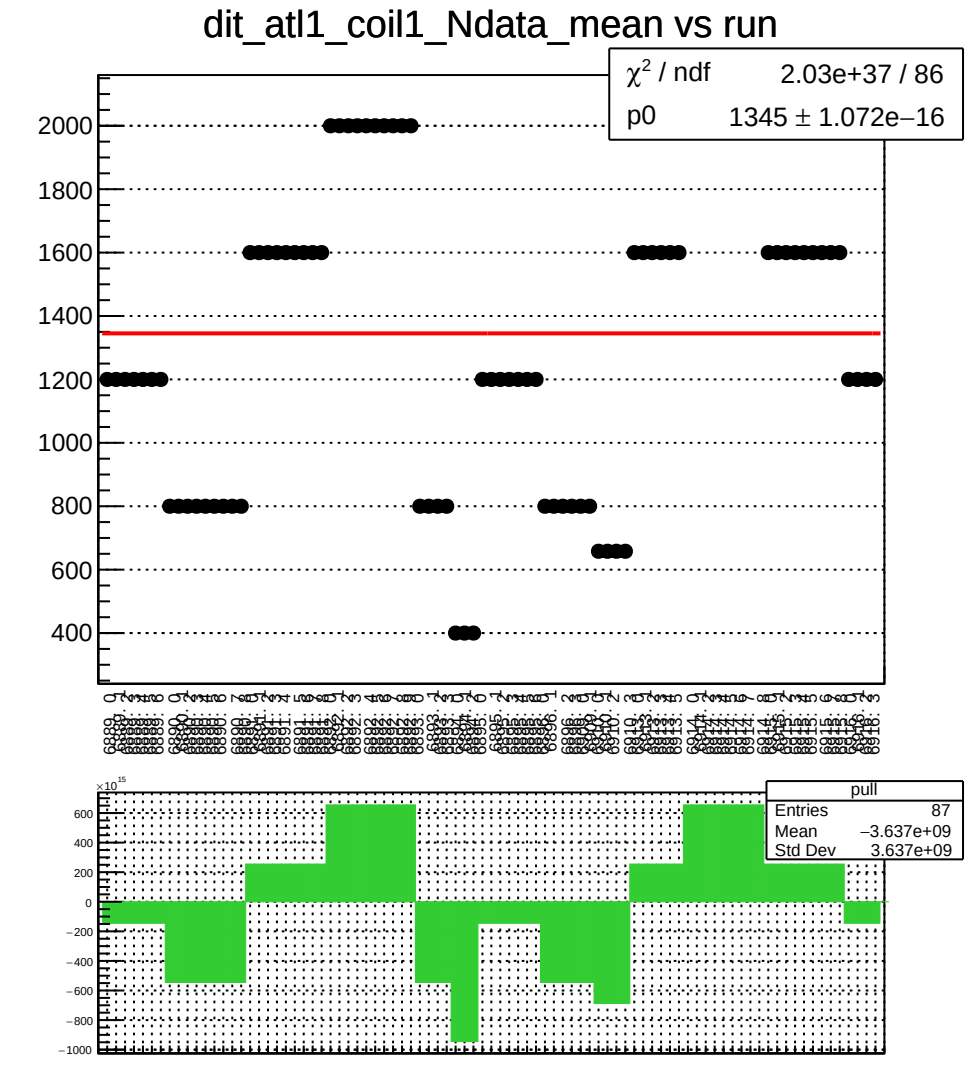

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

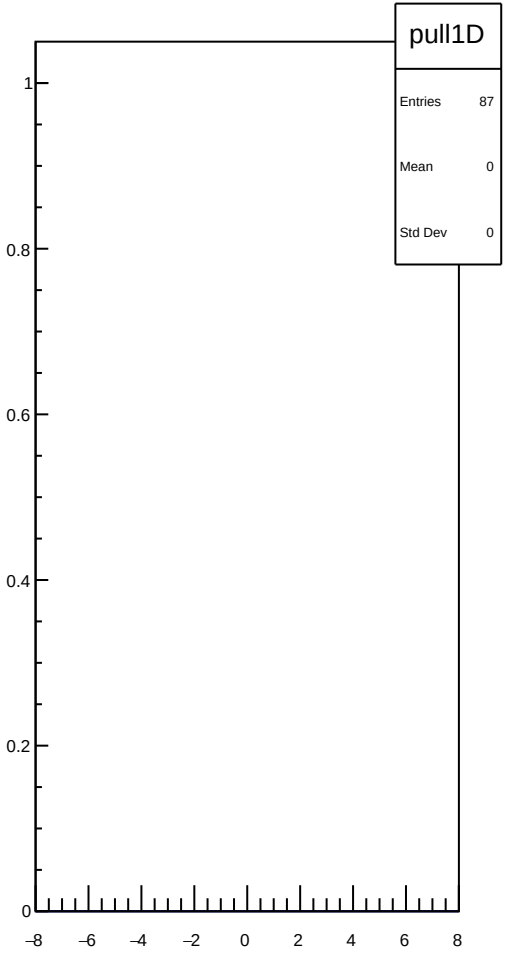

dit_atl1_coil1_mean vs run
χ² / ndf 4.013e+37 / 86
p0 −1.835e+04 ± 1.072e−16
−17000
−17500
−18000
−18500
−19000
−19500
pull
Entries 87
Mean −8.412e+09
Std Dev 8.412e+09
×10¹⁵
1000
500
0
−500
−1000

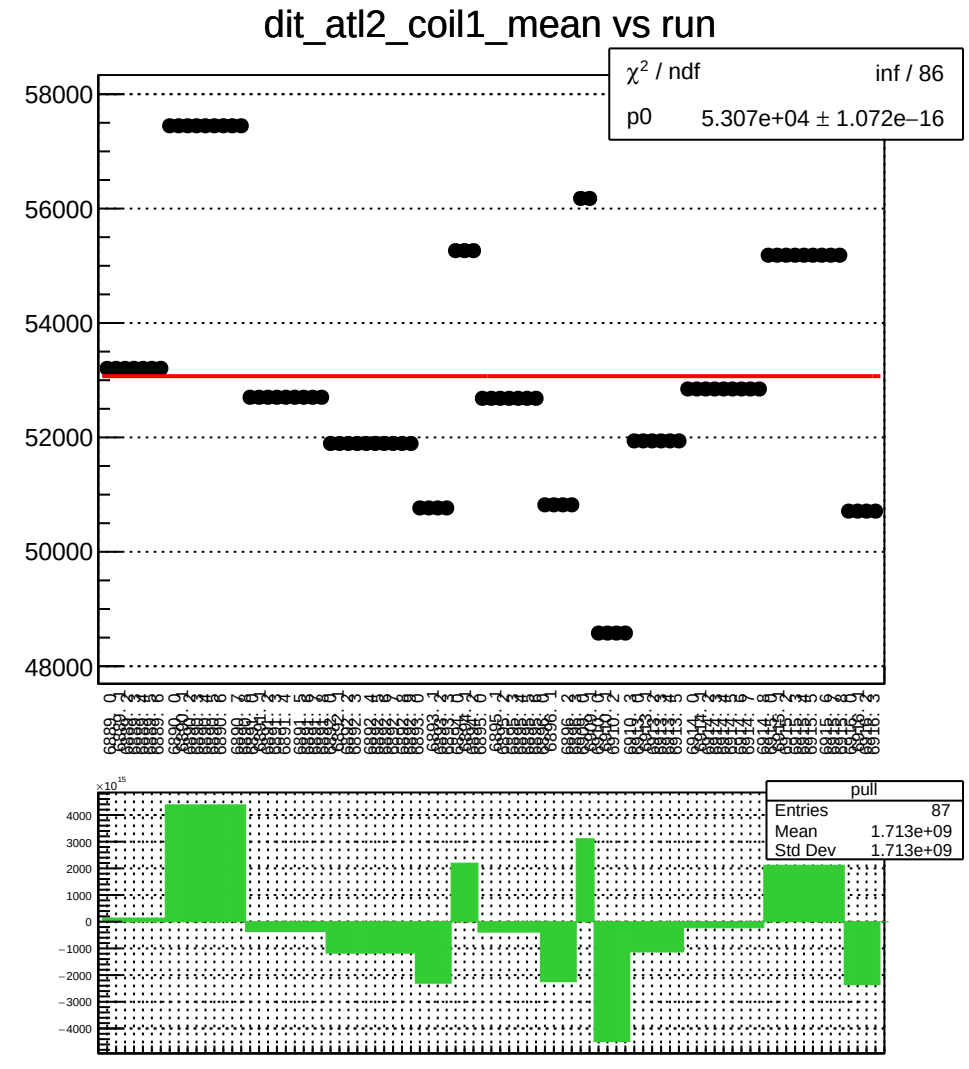

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

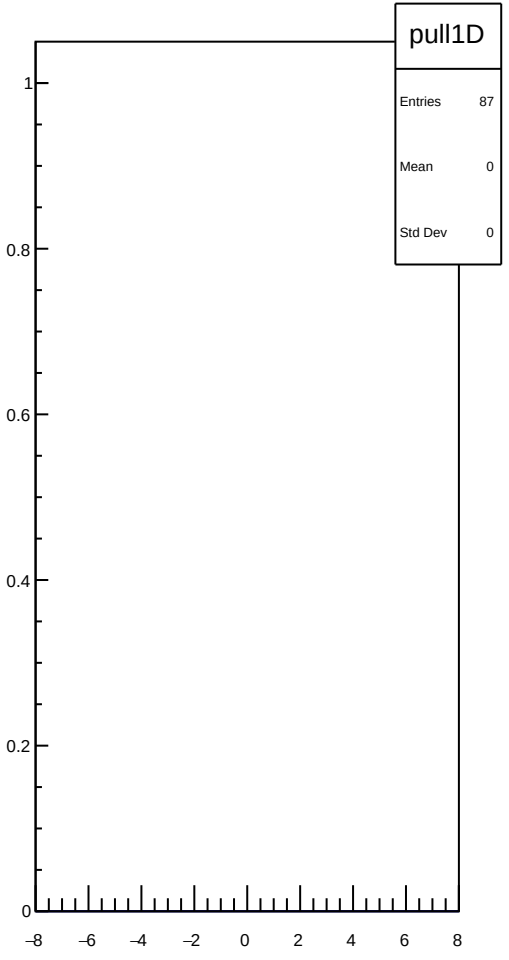

dit_atl1_coil1_err_mean vs run
χ² / ndf 1.589e+36 / 86
p0 616.9 ± 1.072e−16
1000
900
800
700
600
500
pull
Entries 87
Mean 8.186e+08
Std Dev 8.186e+08
×10¹⁵
300
200
100
0
−100

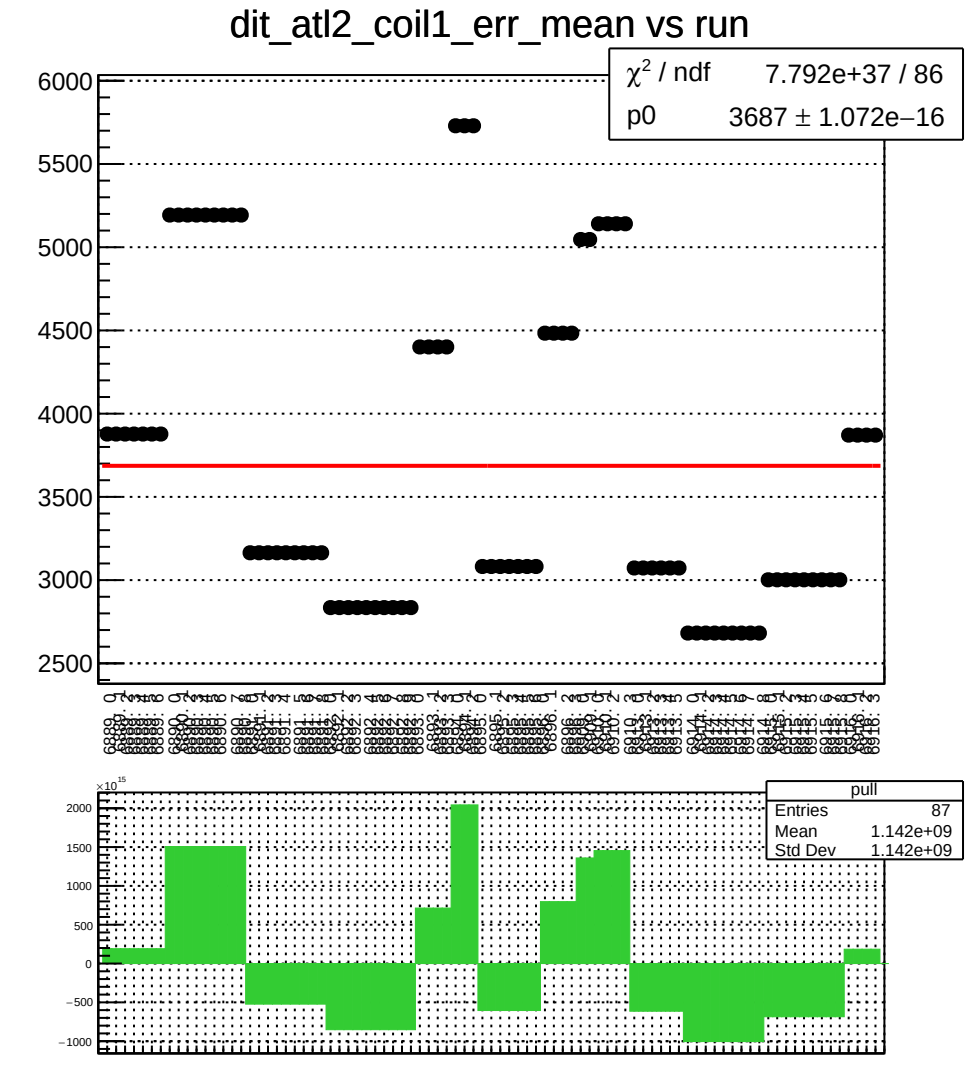

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

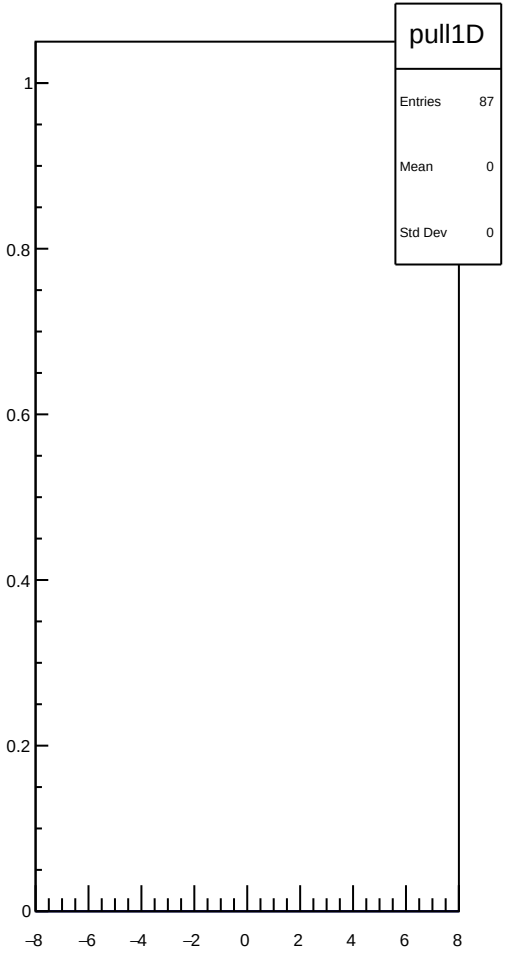

dit_atl1_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

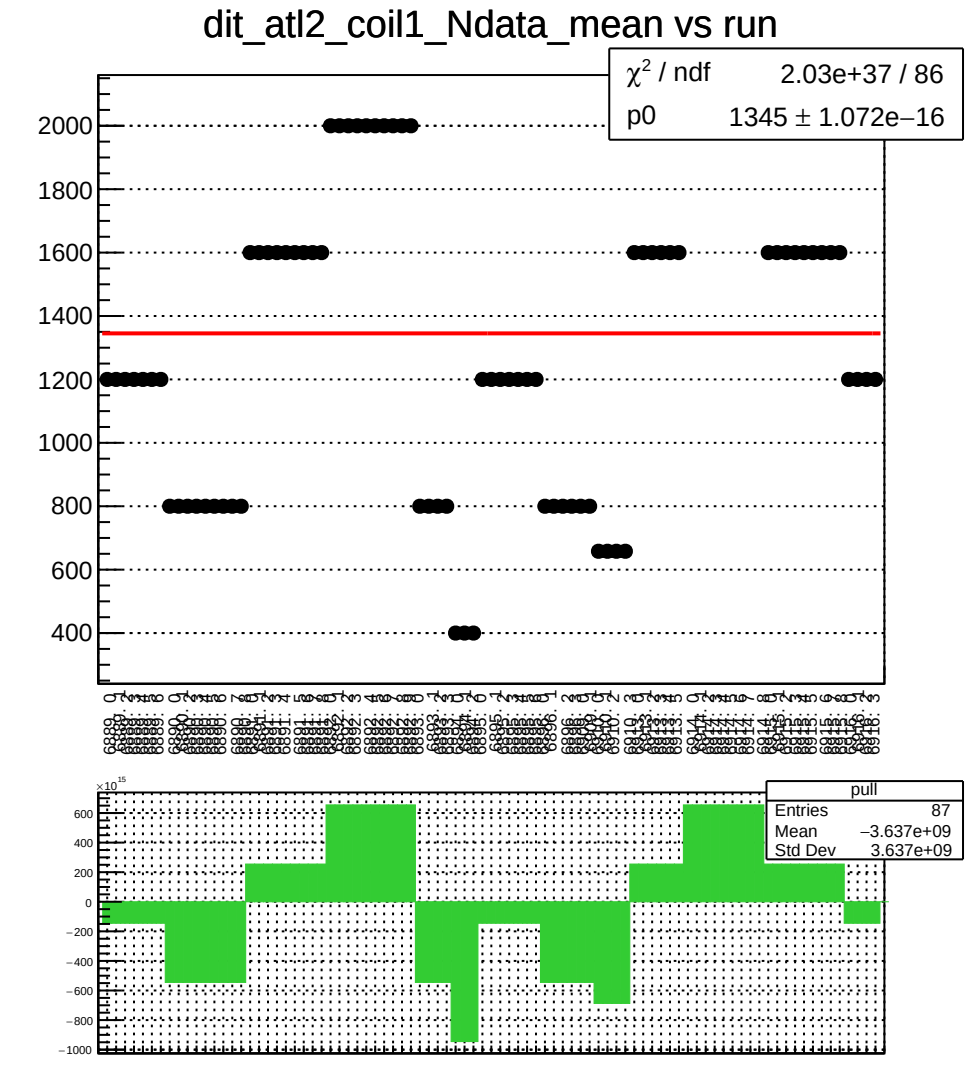

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

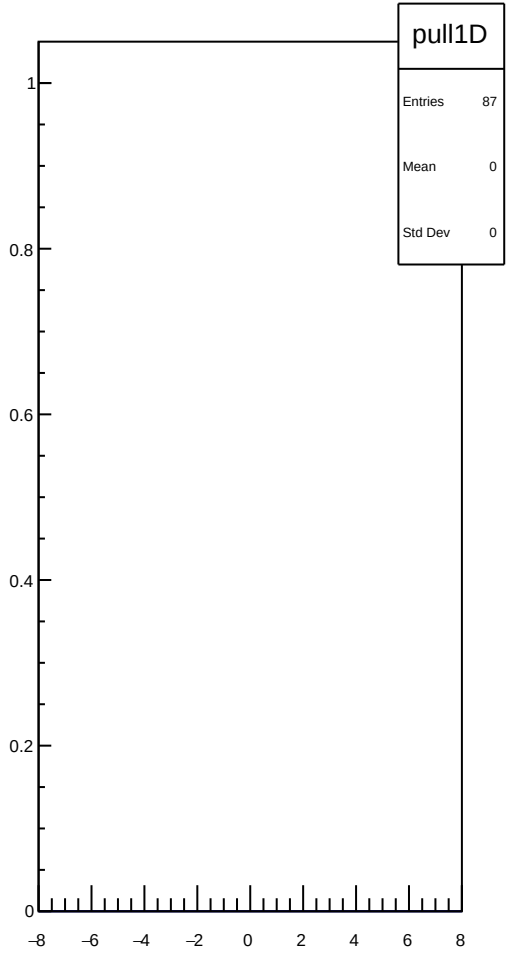

dit_atl2_coil1_mean vs run
χ² / ndf inf / 86
p0 5.307e+04 ± 1.072e−16
58000
56000
54000
52000
50000
48000
×10¹⁵
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 87
Mean 1.713e+09
Std Dev 1.713e+09

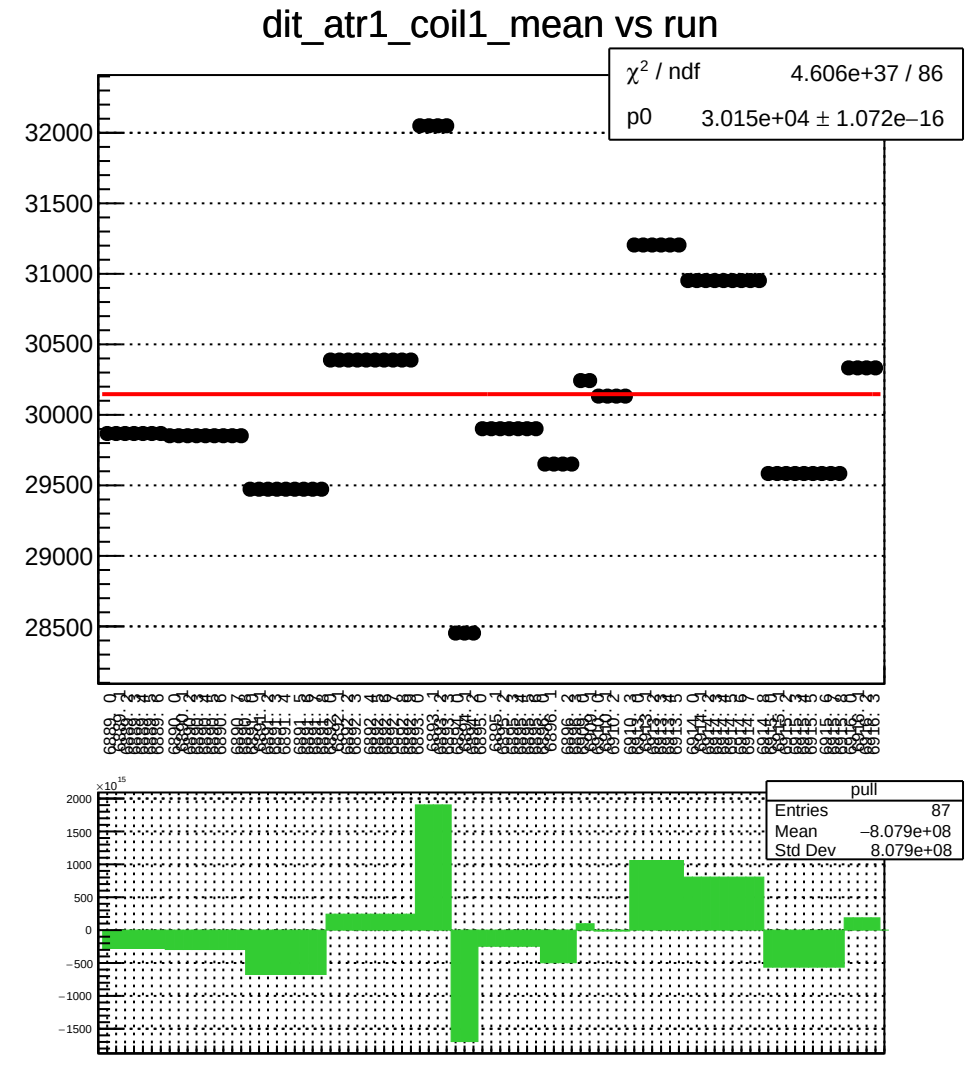

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

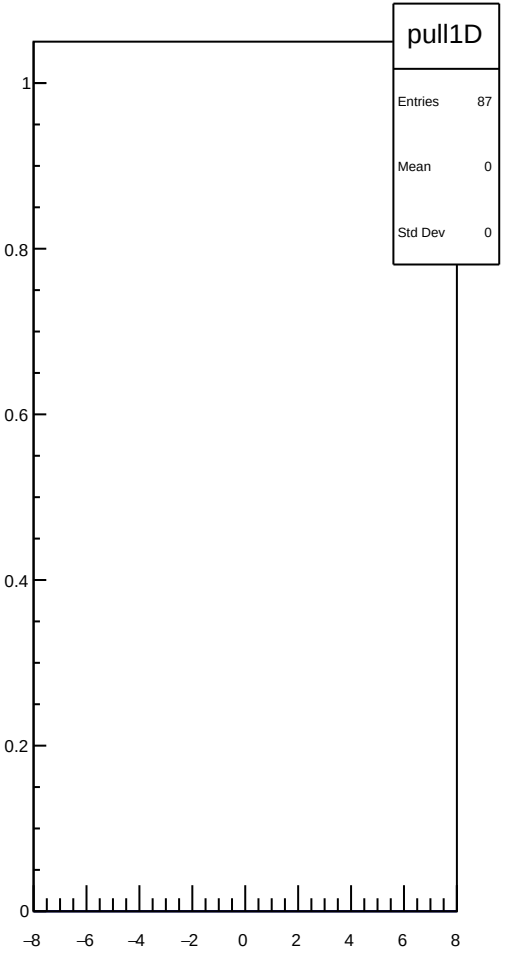

dit_atl2_coil1_err_mean vs run
χ² / ndf 7.792e+37 / 86
p0 3687 ± 1.072e−16
6000
5500
5000
4500
4000
3500
3000
2500
pull
Entries 87
Mean 1.142e+09
Std Dev 1.142e+09
×10¹⁵
2000
1500
1000
500
0
−500
−1000

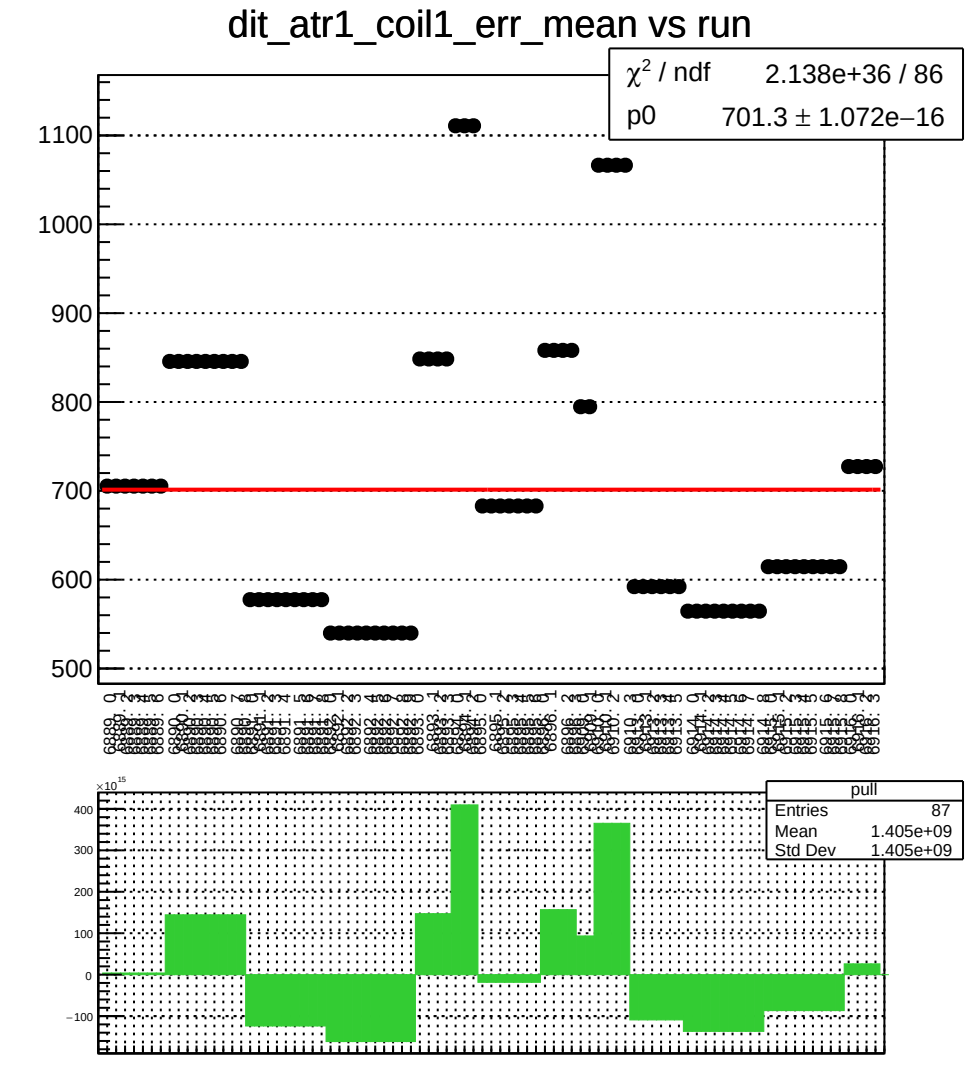

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

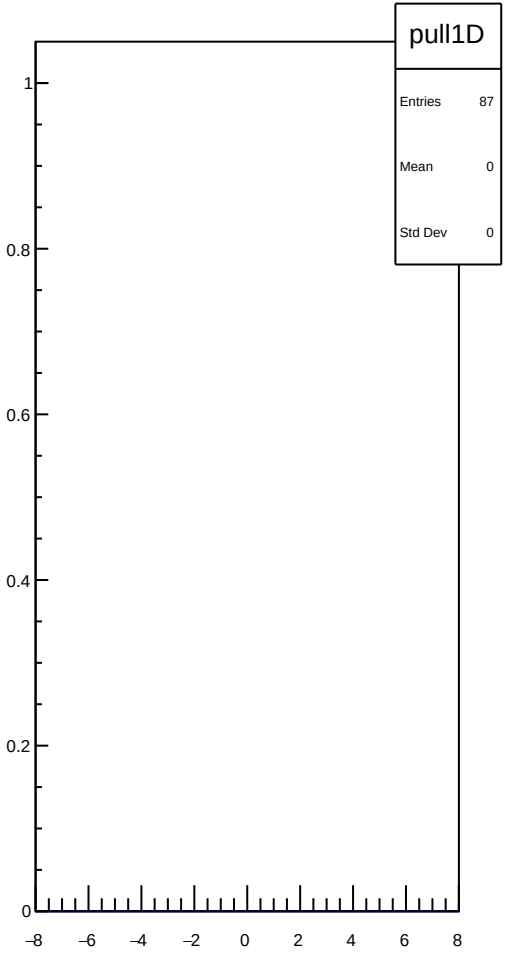

dit_atl2_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09

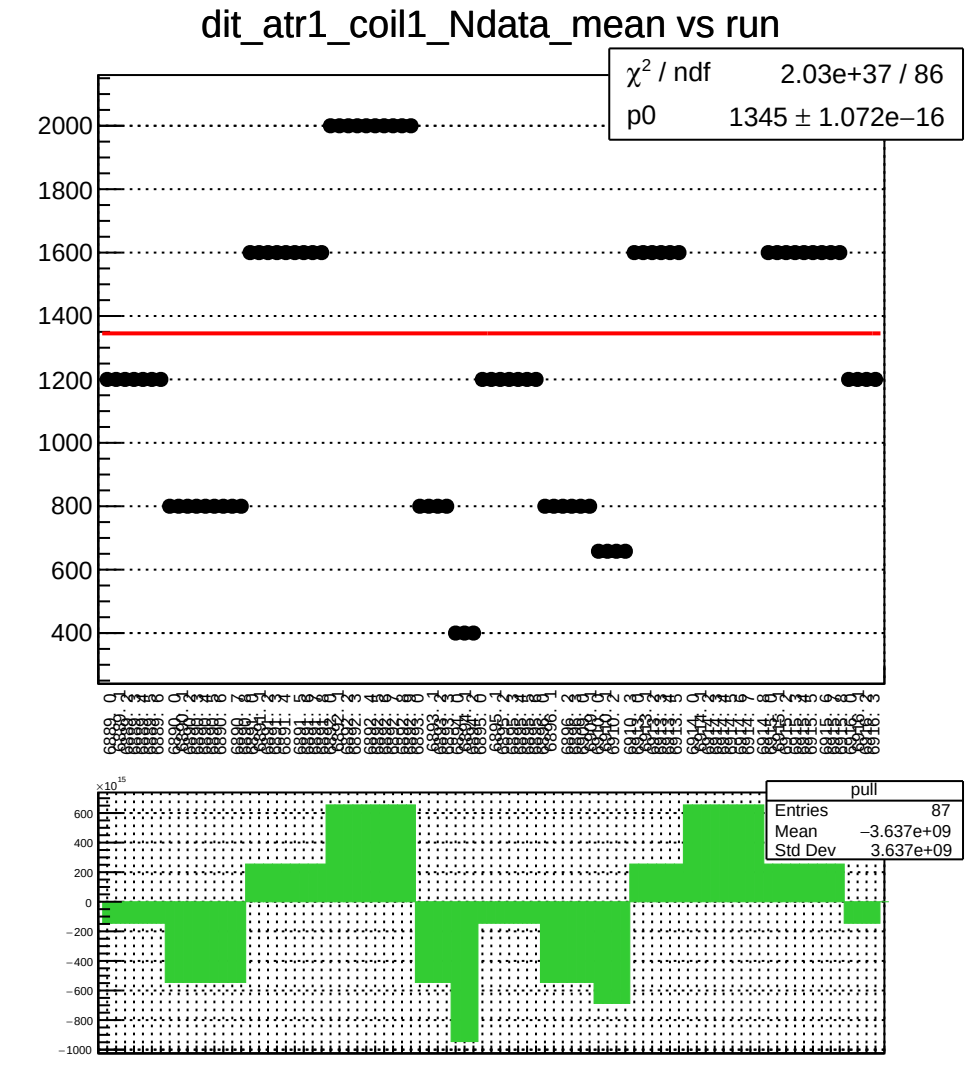

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

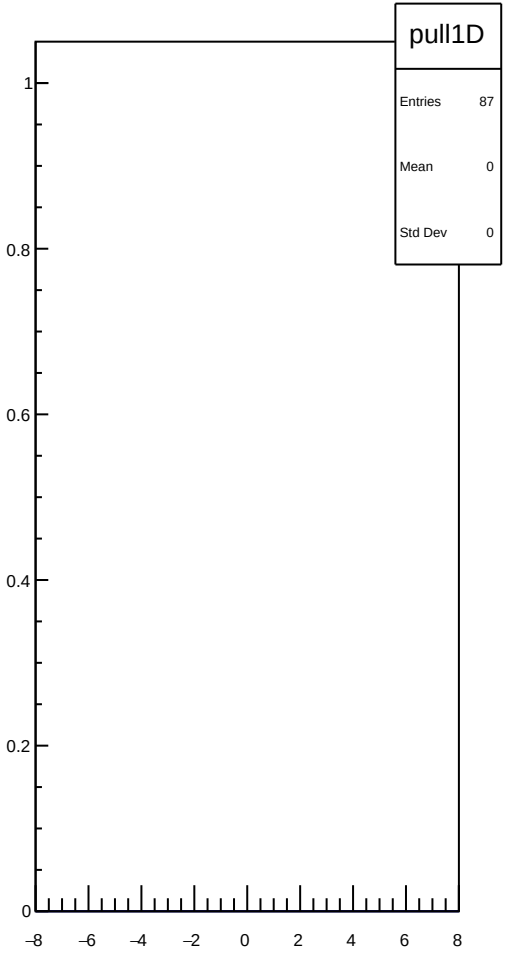

dit_atr1_coil1_mean vs run
χ² / ndf 4.606e+37 / 86
p0 3.015e+04 ± 1.072e−16
32000
31500
31000
30500
30000
29500
29000
28500
×10¹⁵
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 87
Mean −8.079e+08
Std Dev 8.079e+08

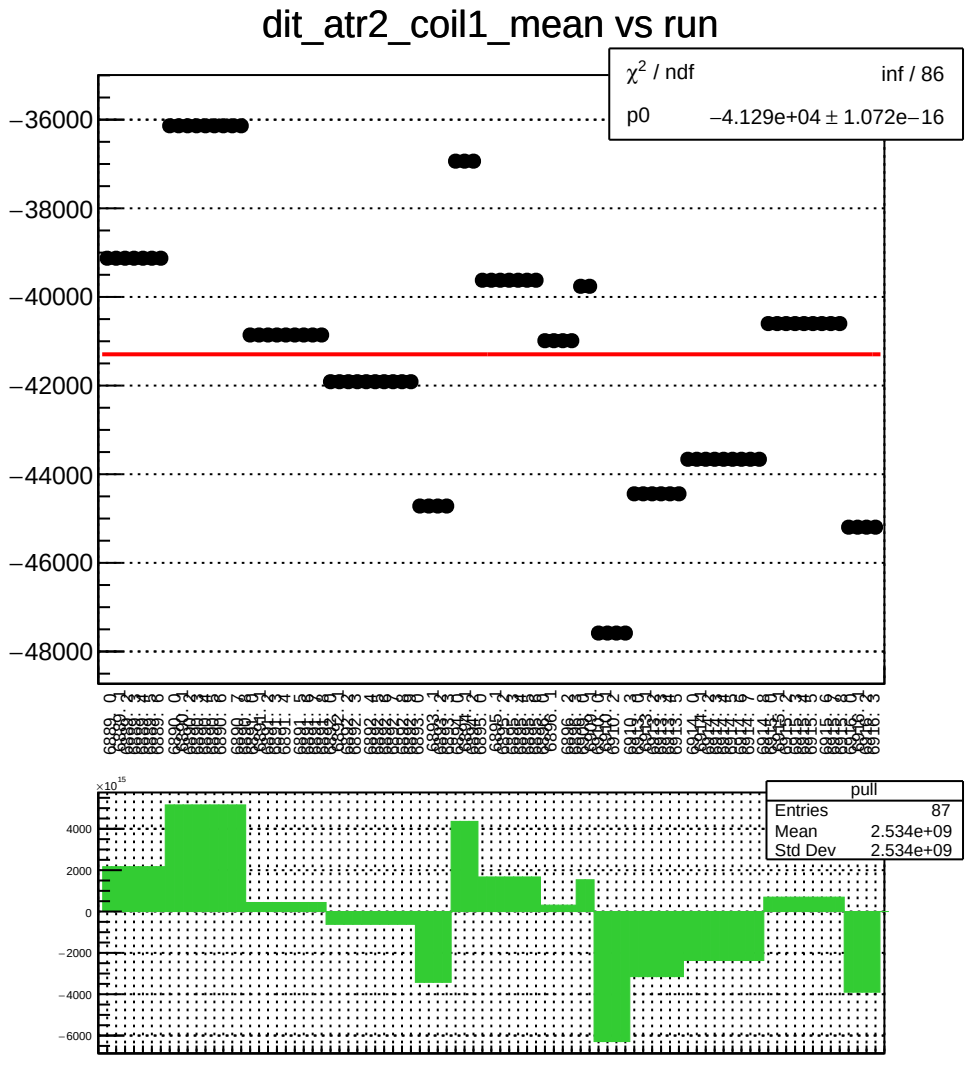

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

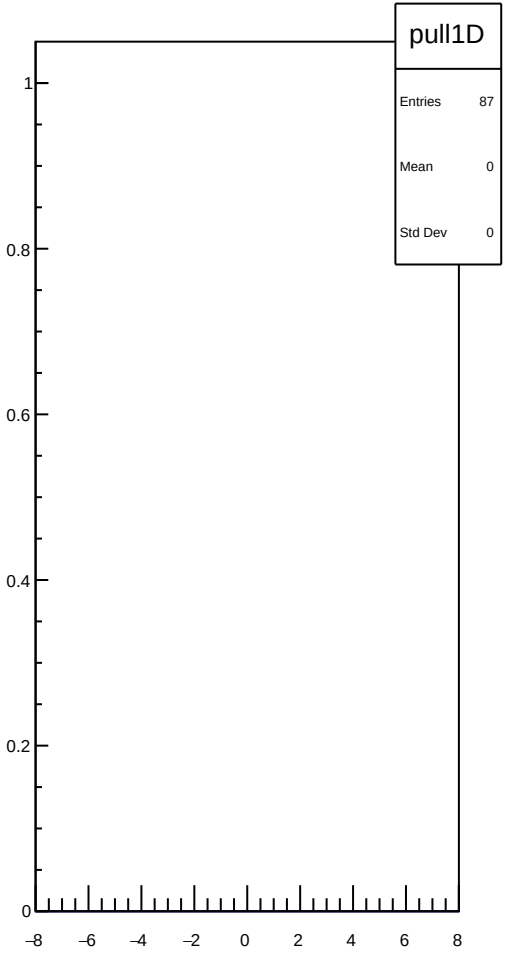

dit_atr1_coil1_err_mean vs run
χ² / ndf 2.138e+36 / 86
p0 701.3 ± 1.072e−16
1100
1000
900
800
700
600
500
pull
Entries 87
Mean 1.405e+09
Std Dev 1.405e+09
×10¹⁵
400
300
200
100
0
−100

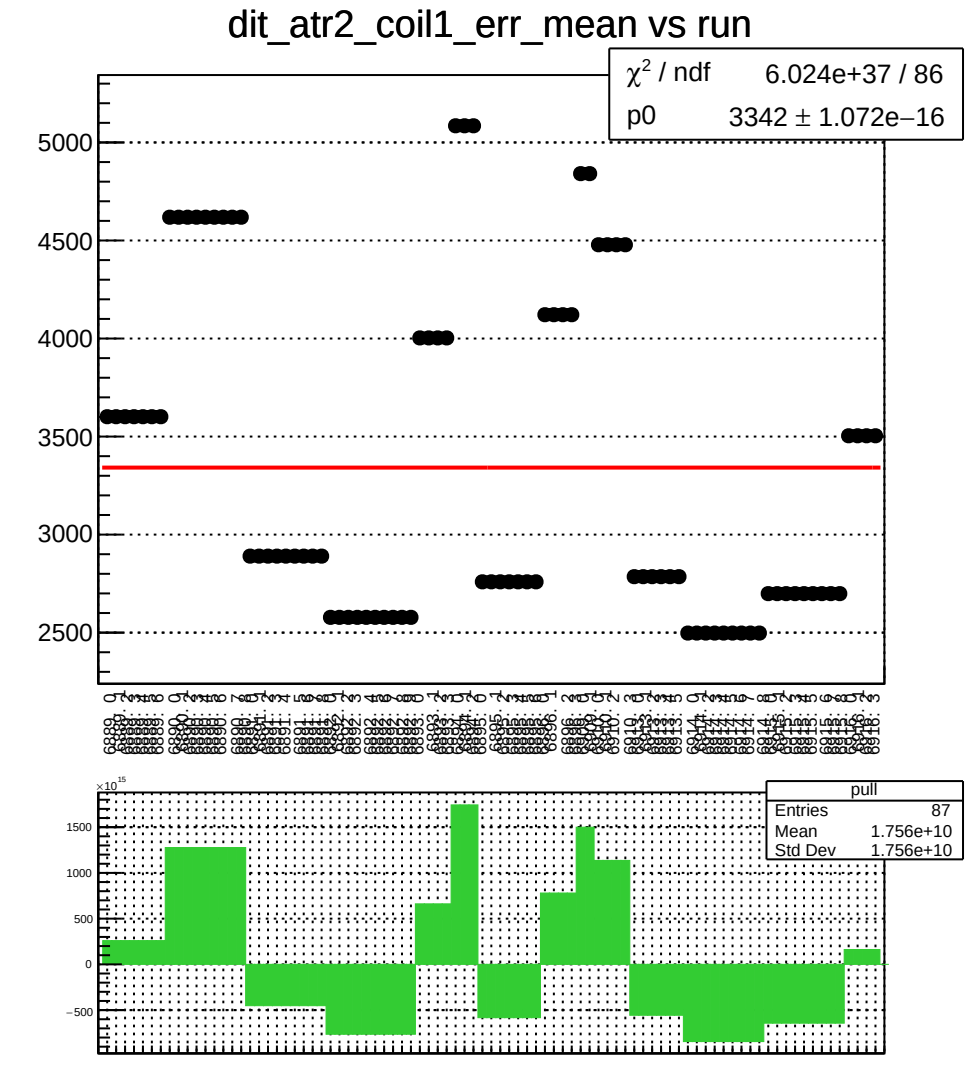

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

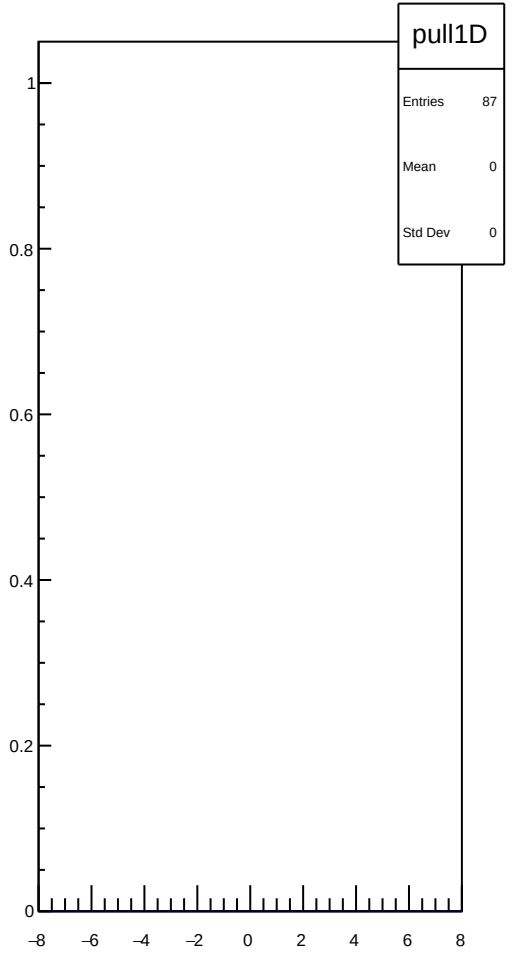

dit_atr1_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

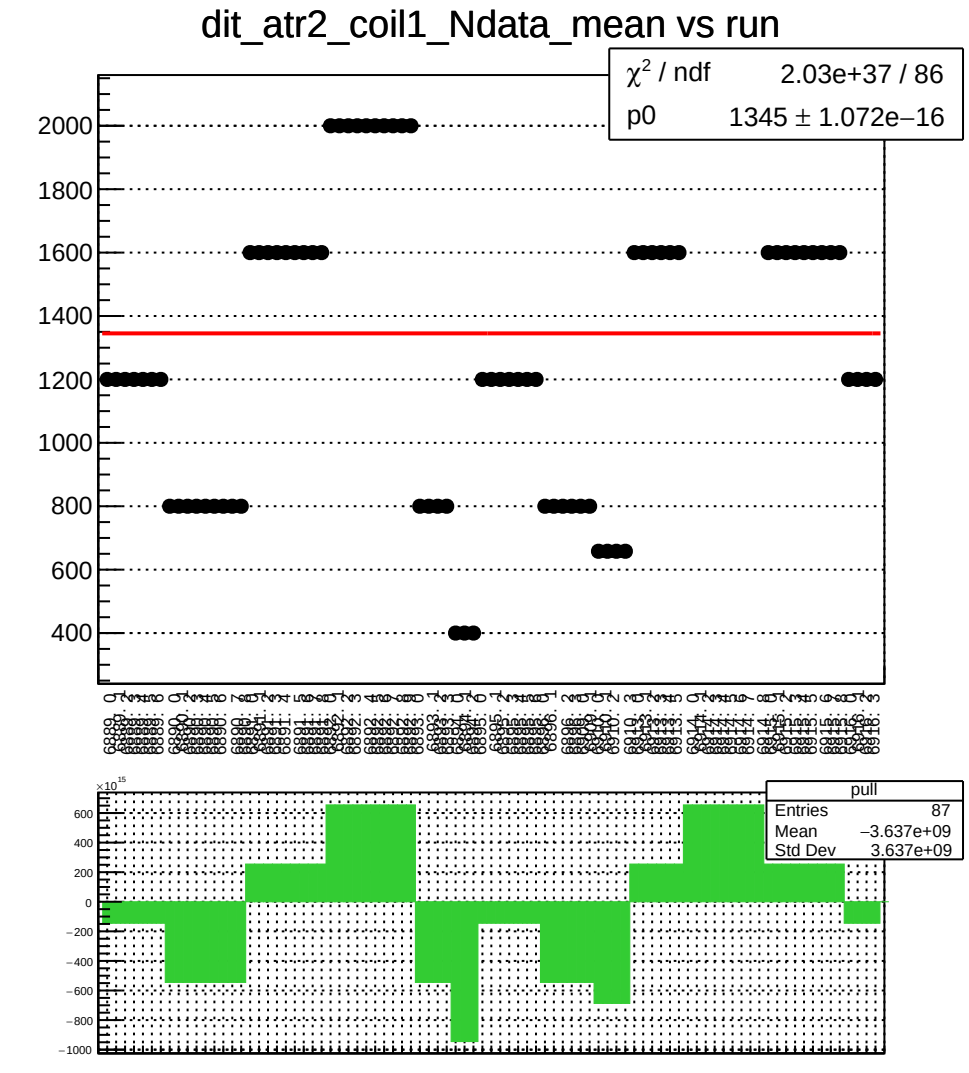

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

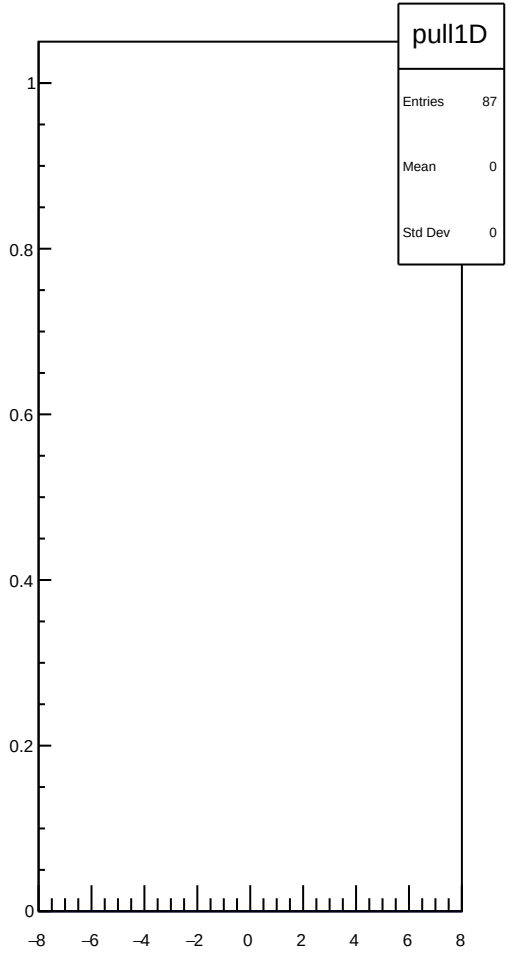

dit_atr2_coil1_mean vs run
χ² / ndf inf / 86
p0 −4.129e+04 ± 1.072e−16
−36000
−38000
−40000
−42000
−44000
−46000
−48000
×10¹⁵
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 2.534e+09
Std Dev 2.534e+09

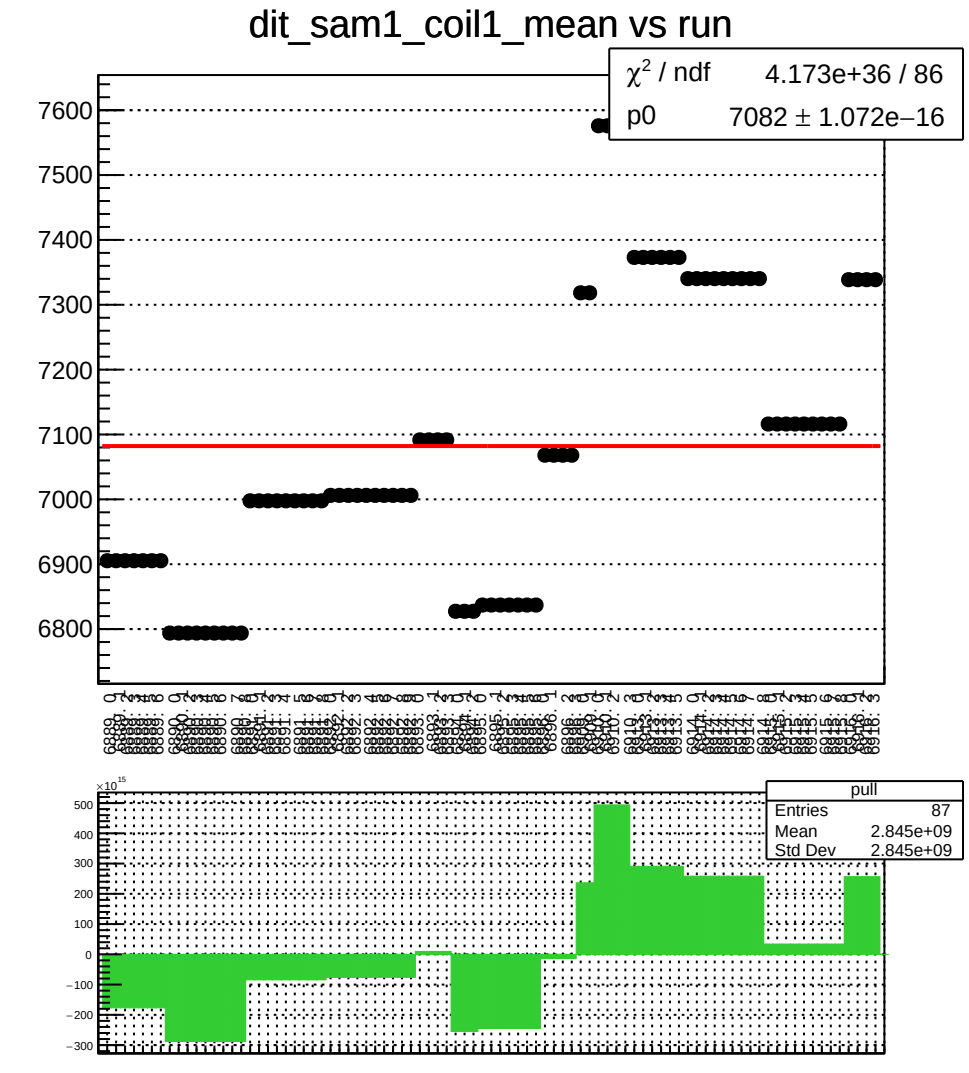

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

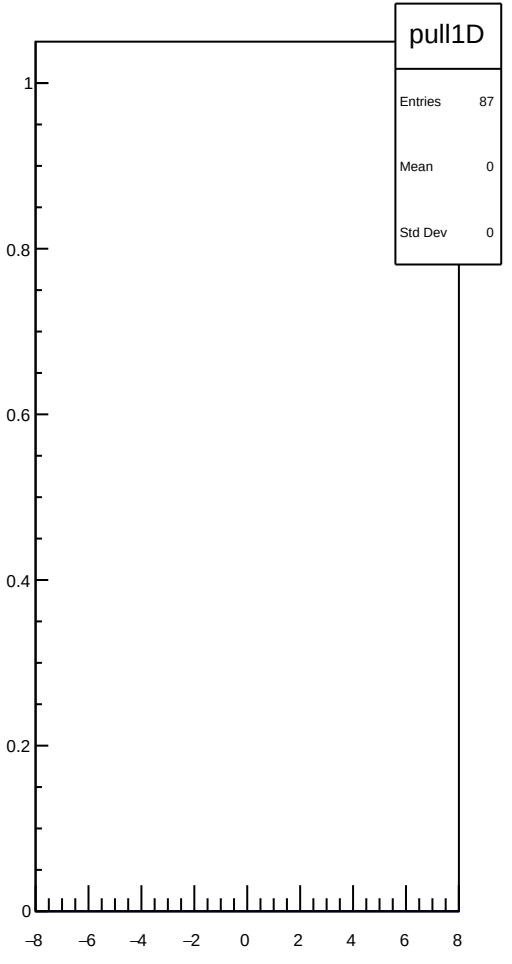

dit_atr2_coil1_err_mean vs run
χ² / ndf 6.024e+37 / 86
p0 3342 ± 1.072e−16
5000
4500
4000
3500
3000
2500
×10¹⁵
1500
1000
500
0
−500
pull
Entries 87
Mean 1.756e+10
Std Dev 1.756e+10

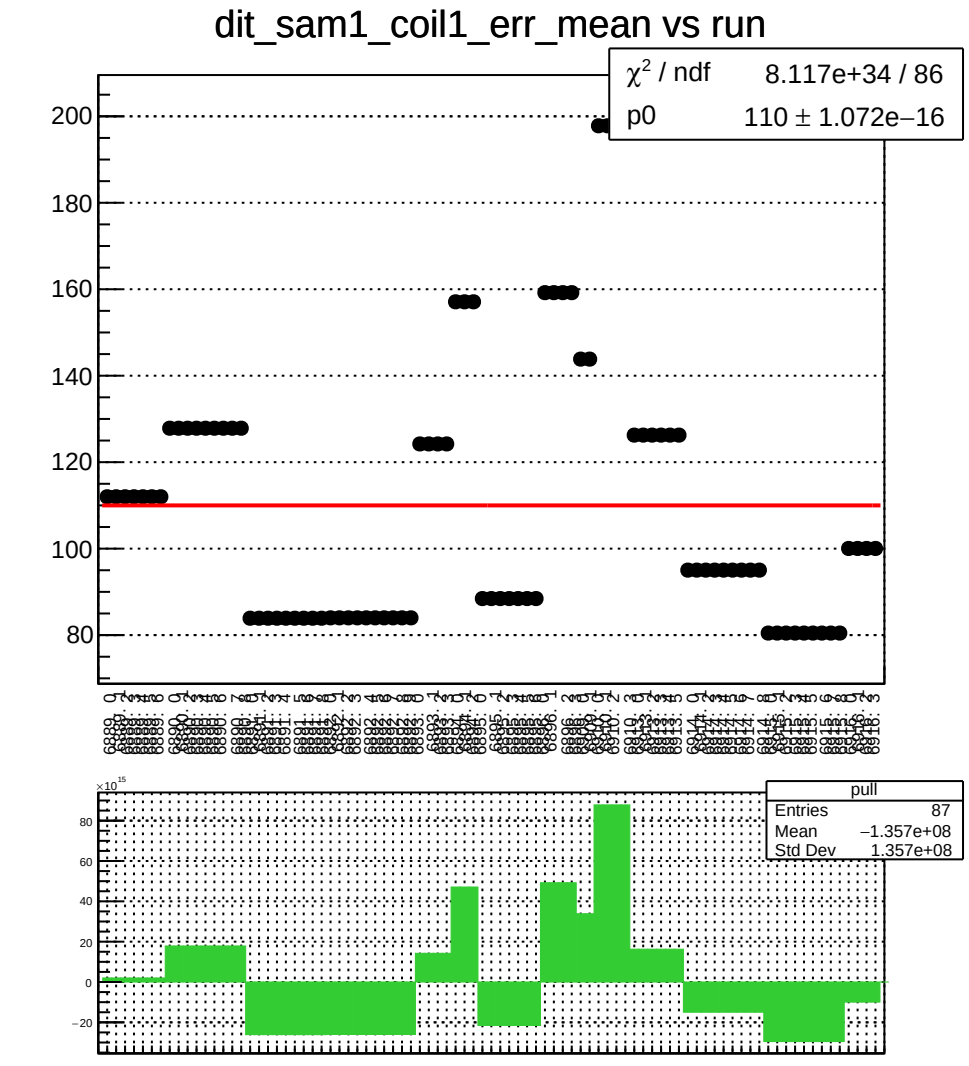

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

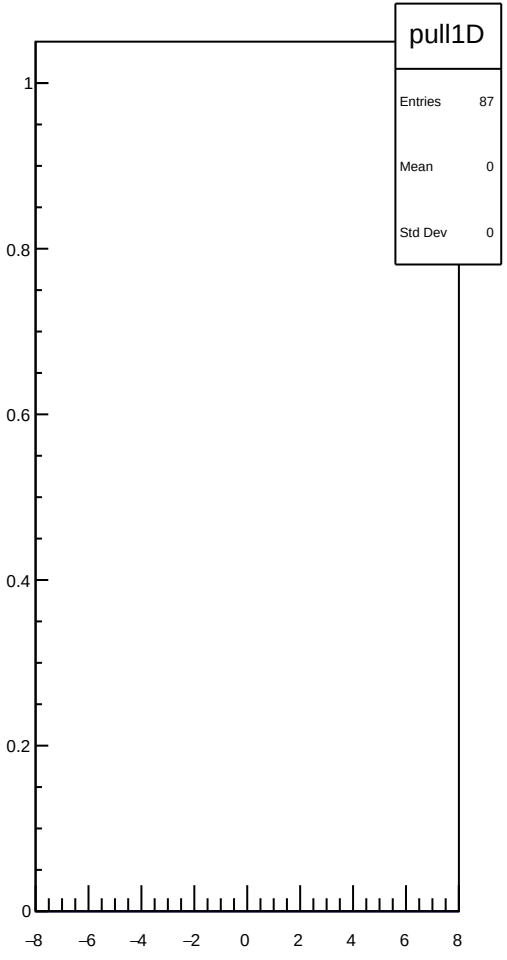

dit_atr2_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

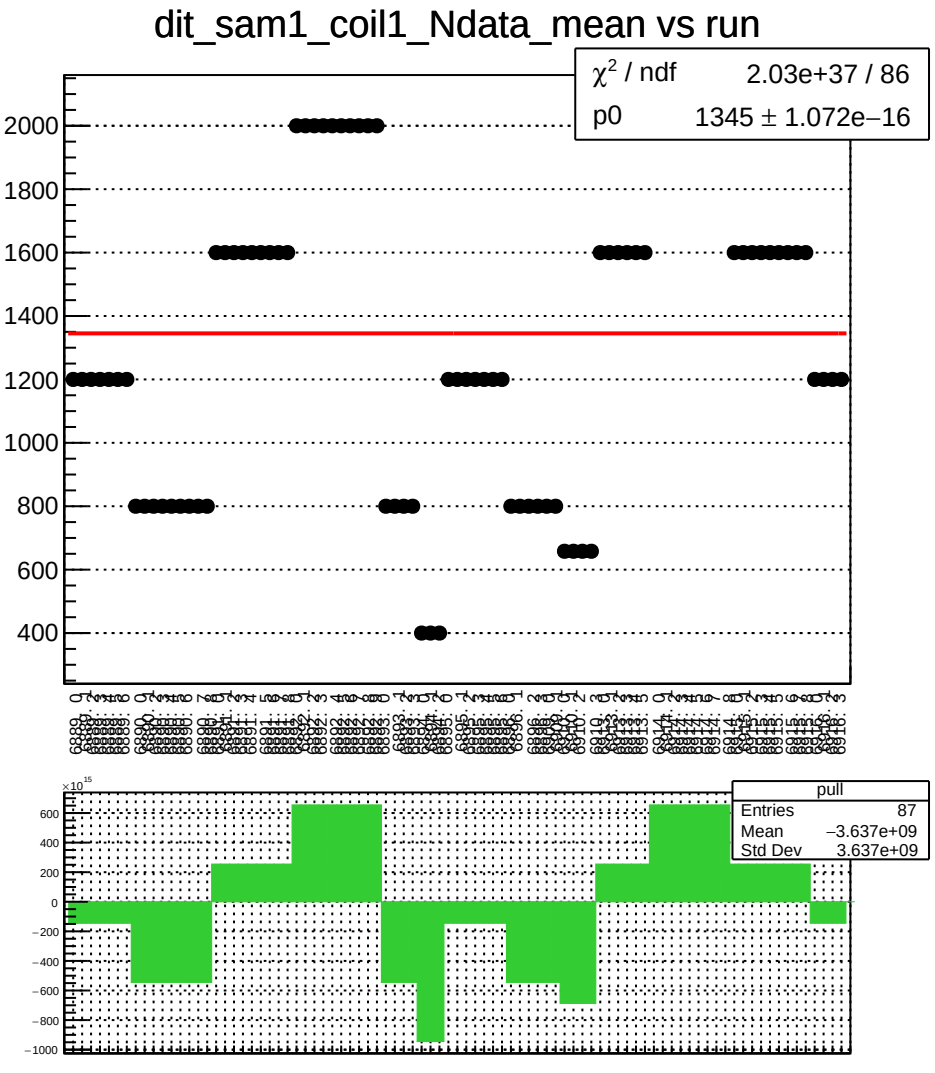

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

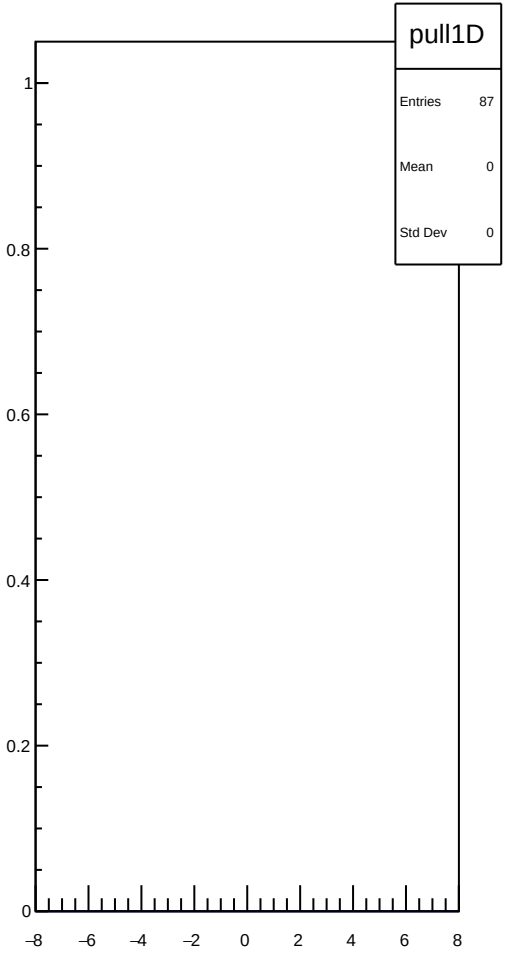

dit_sam1_coil1_mean vs run
χ² / ndf 4.173e+36 / 86
p0 7082 ± 1.072e−16
7600
7500
7400
7300
7200
7100
7000
6900
6800
pull
Entries 87
Mean 2.845e+09
Std Dev 2.845e+09
×10¹⁵
500
400
300
200
100
0
−100
−200
−300

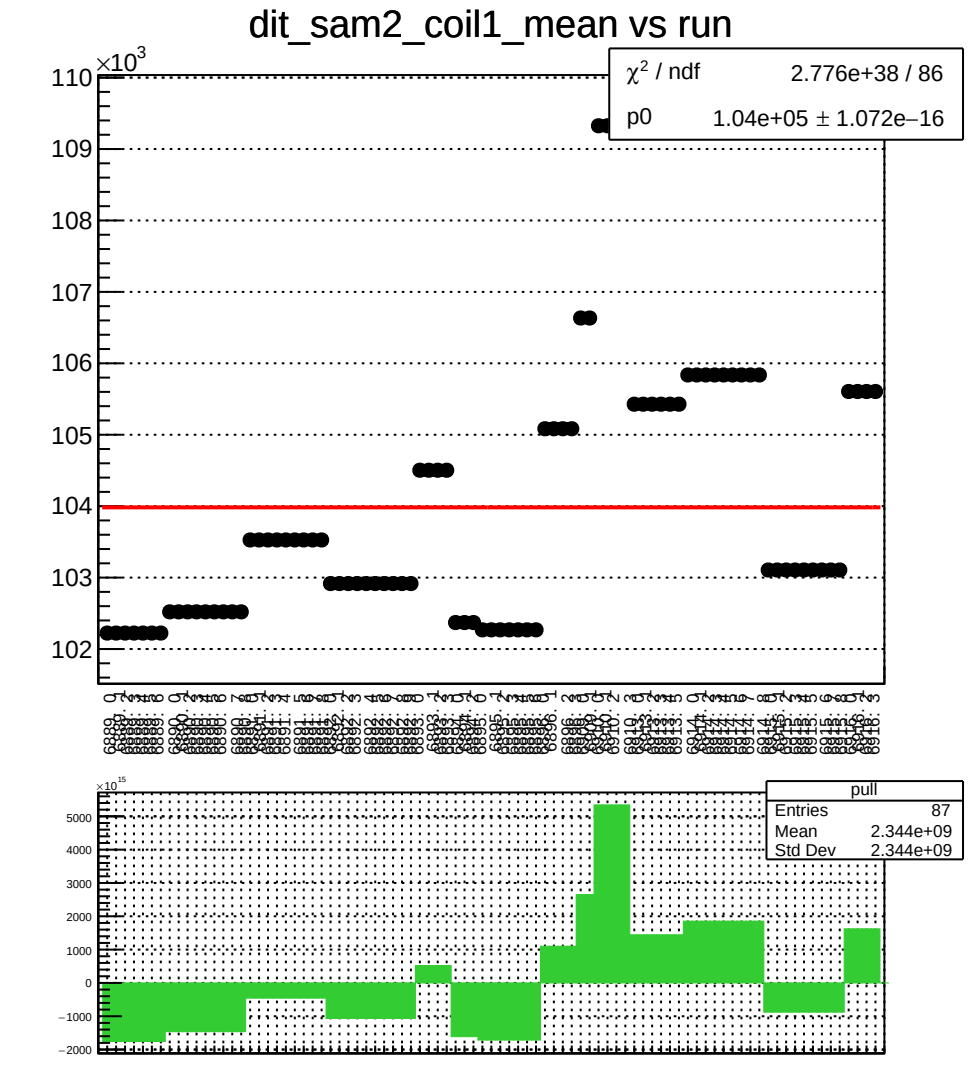

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

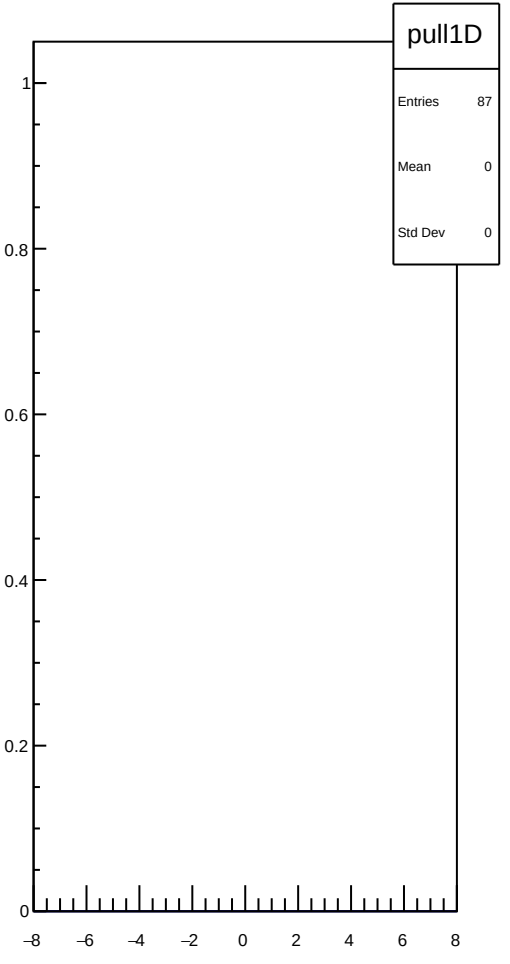

dit_sam1_coil1_err_mean vs run
χ² / ndf 8.117e+34 / 86
p0 110 ± 1.072e−16
200
180
160
140
120
100
80
pull
Entries 87
Mean −1.357e+08
Std Dev 1.357e+08
×10¹⁵
80
60
40
20
0
−20

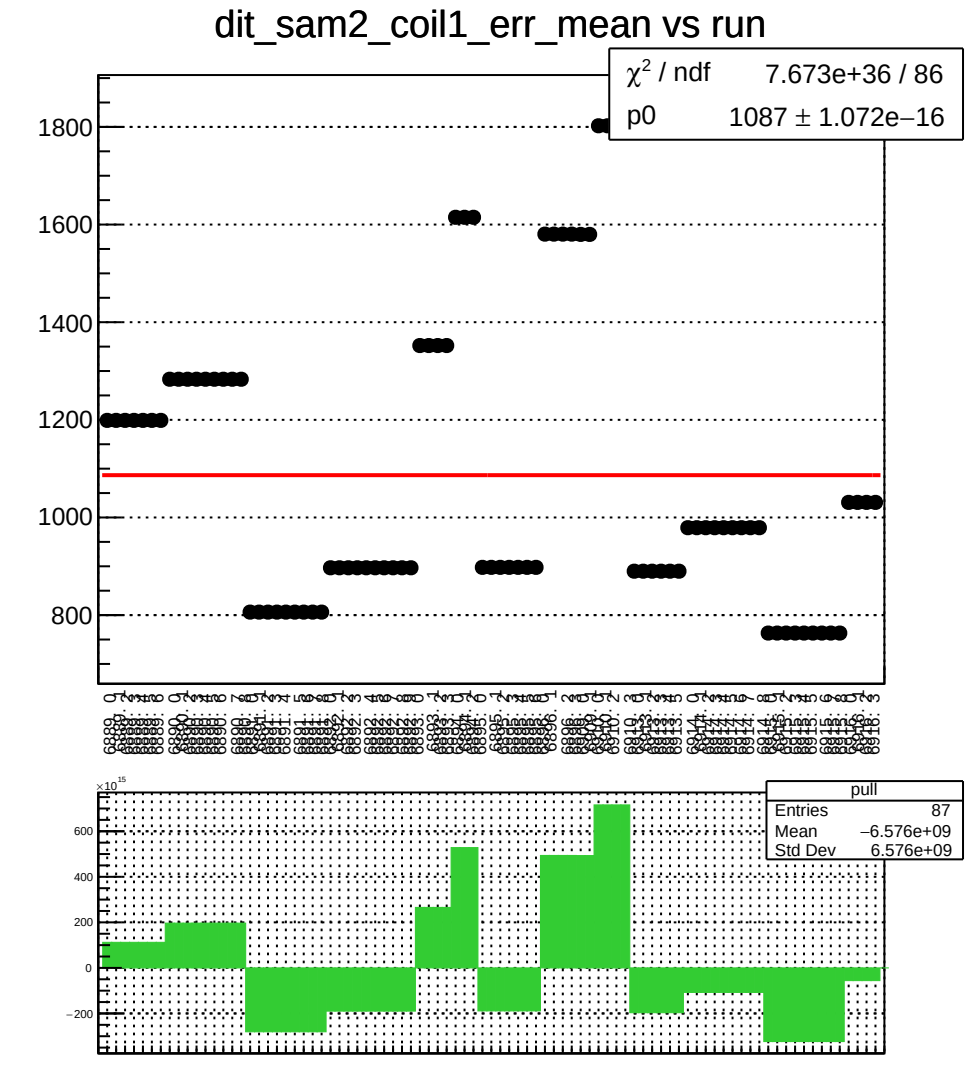

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

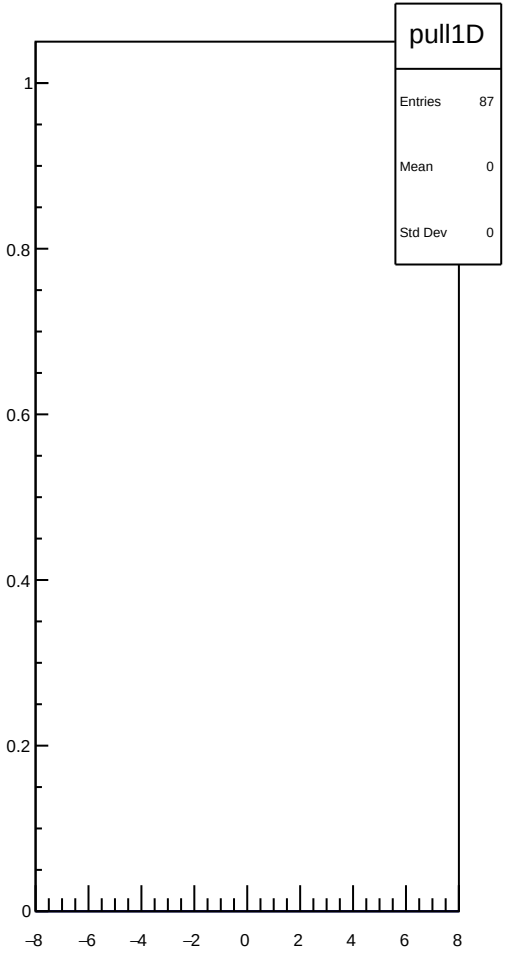

dit_sam1_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

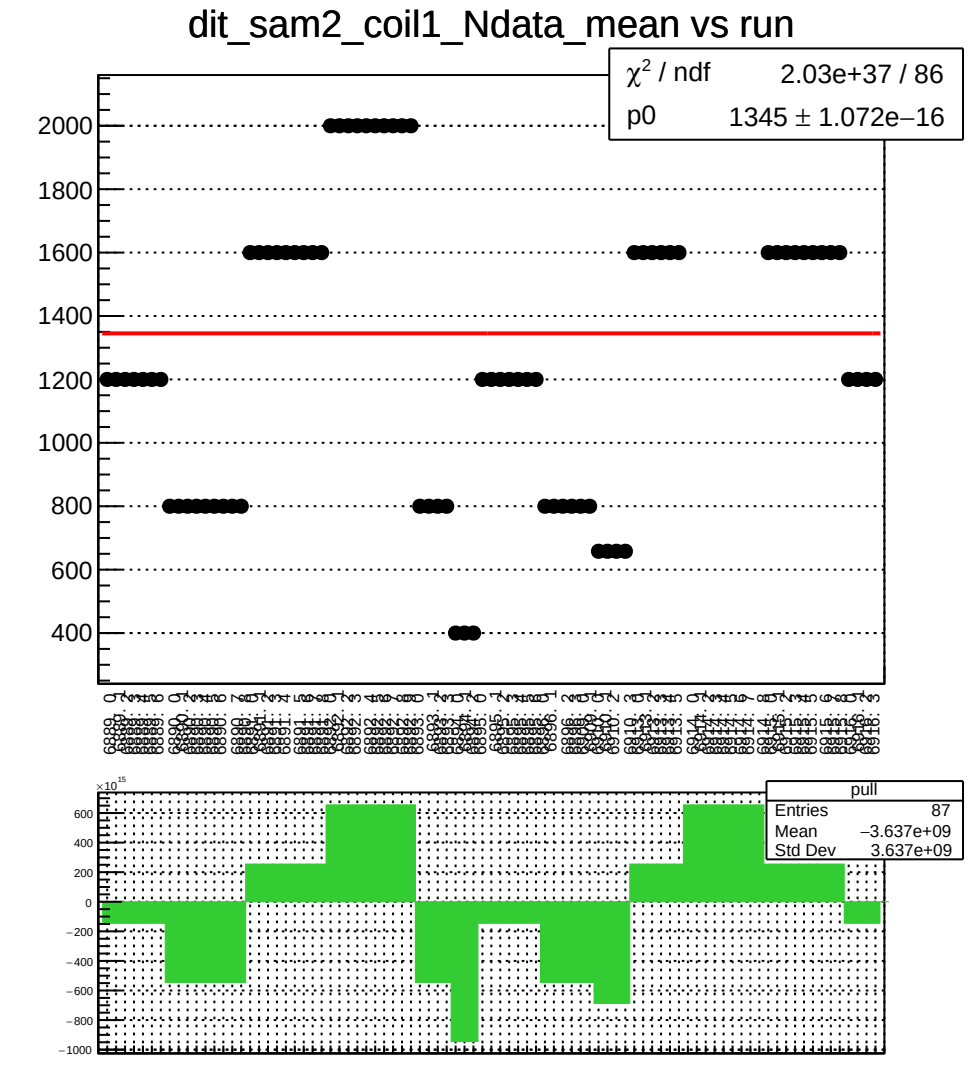

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

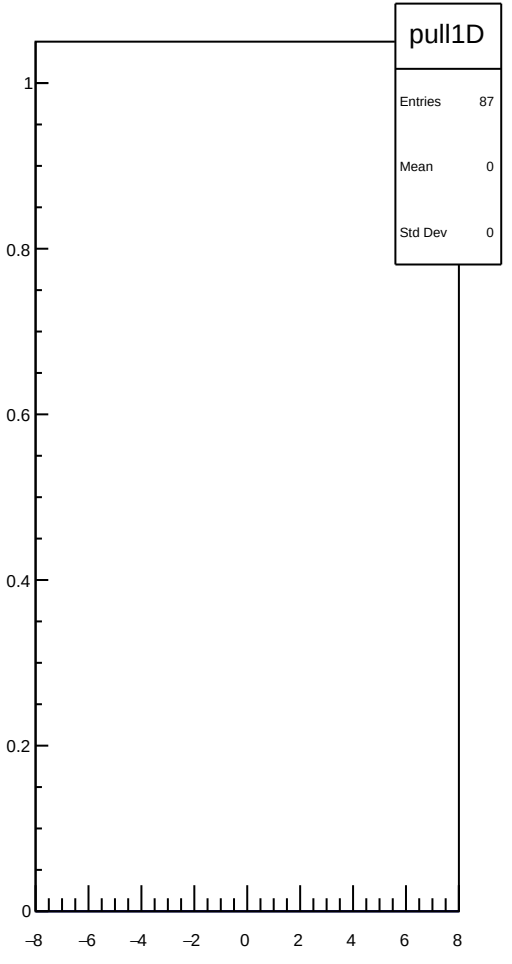

dit_sam2_coil1_mean vs run
χ² / ndf 2.776e+38 / 86
p0 1.04e+05 ± 1.072e−16
×10³
110
109
108
107
106
105
104
103
102
pull
Entries 87
Mean 2.344e+09
Std Dev 2.344e+09
×10¹⁵
5000
4000
3000
2000
1000
0
−1000
−2000

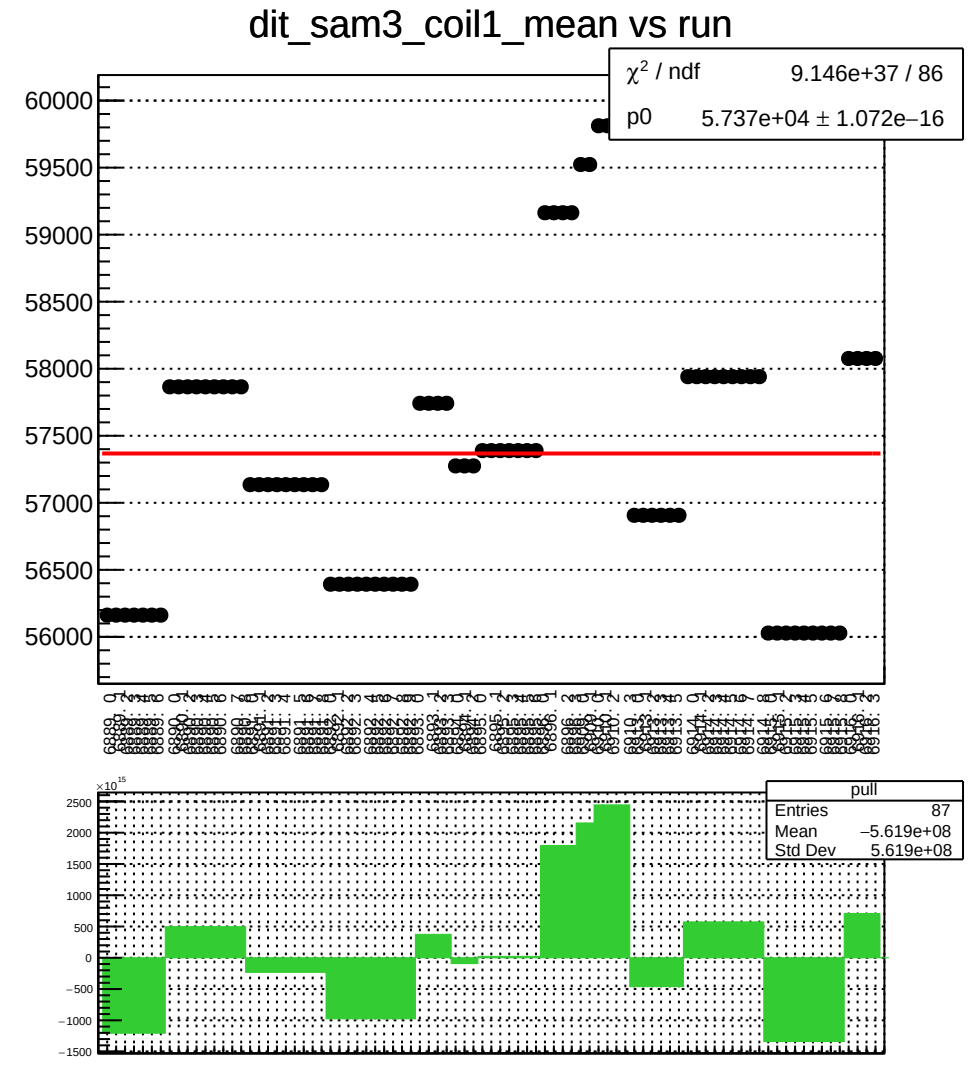

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

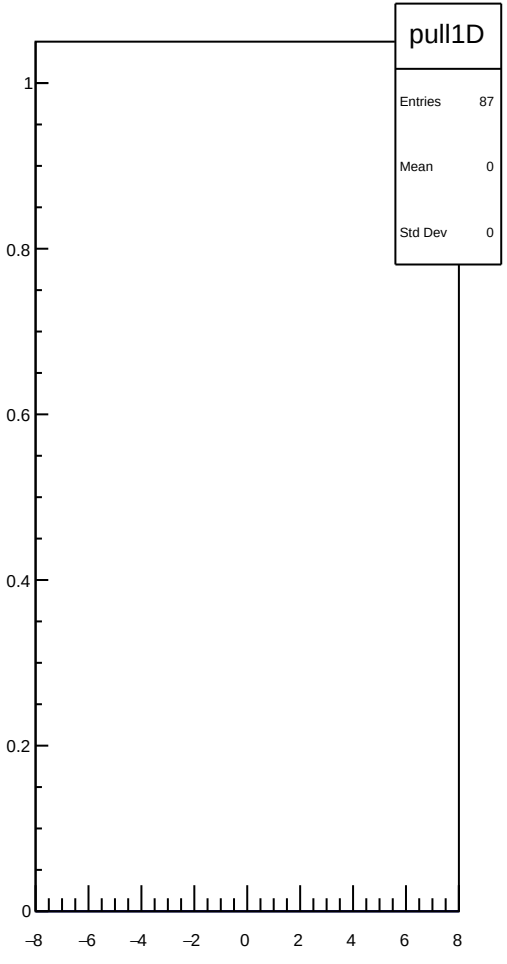

dit_sam2_coil1_err_mean vs run
χ² / ndf 7.673e+36 / 86
p0 1087 ± 1.072e−16
1800
1600
1400
1200
1000
800
×10¹⁵
600
400
200
0
−200
pull
Entries 87
Mean −6.576e+09
Std Dev 6.576e+09

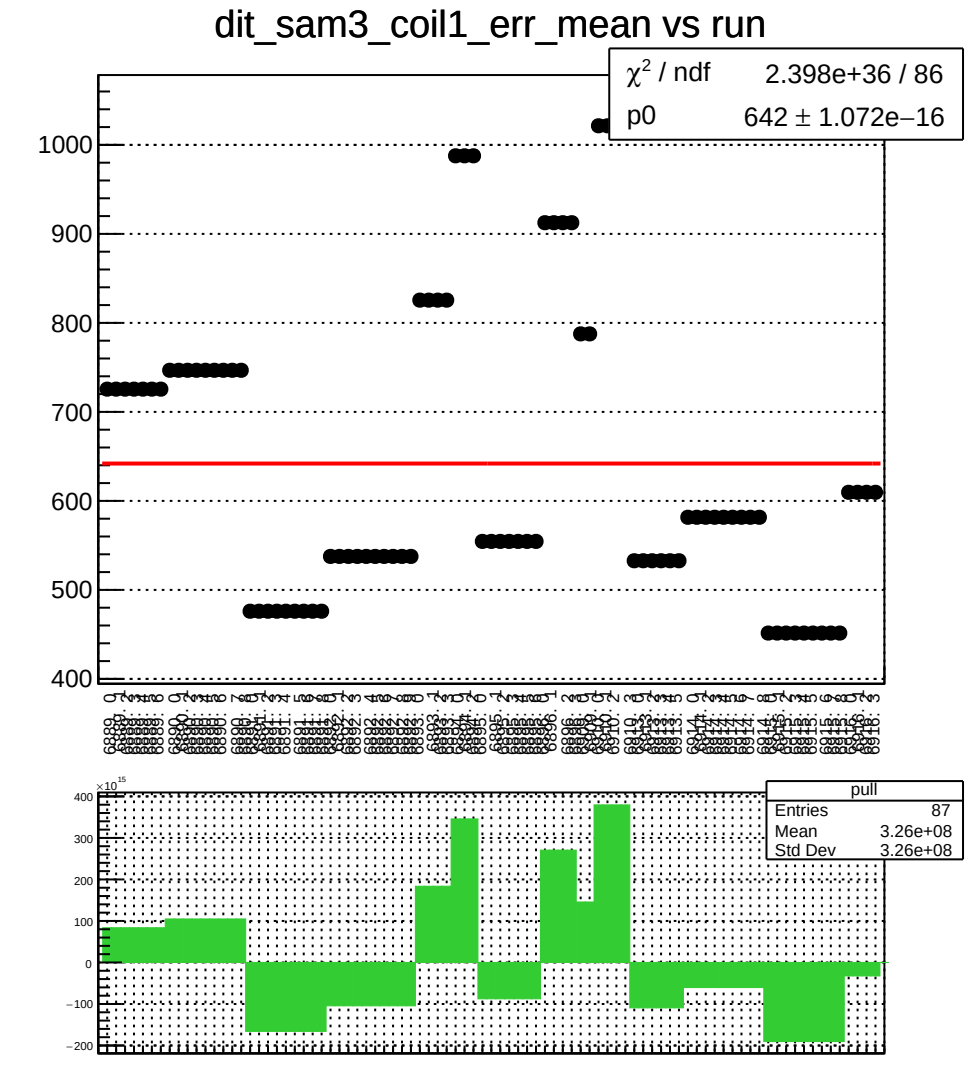

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

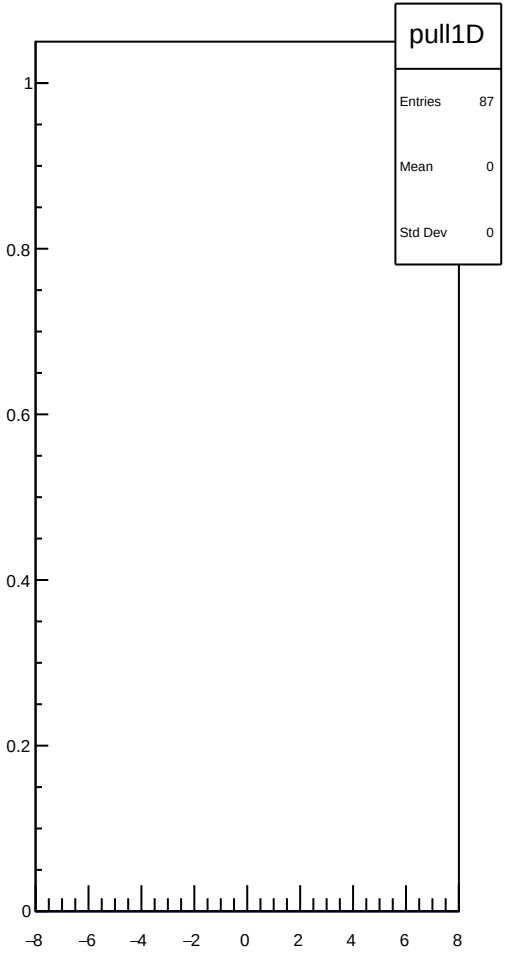

dit_sam2_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

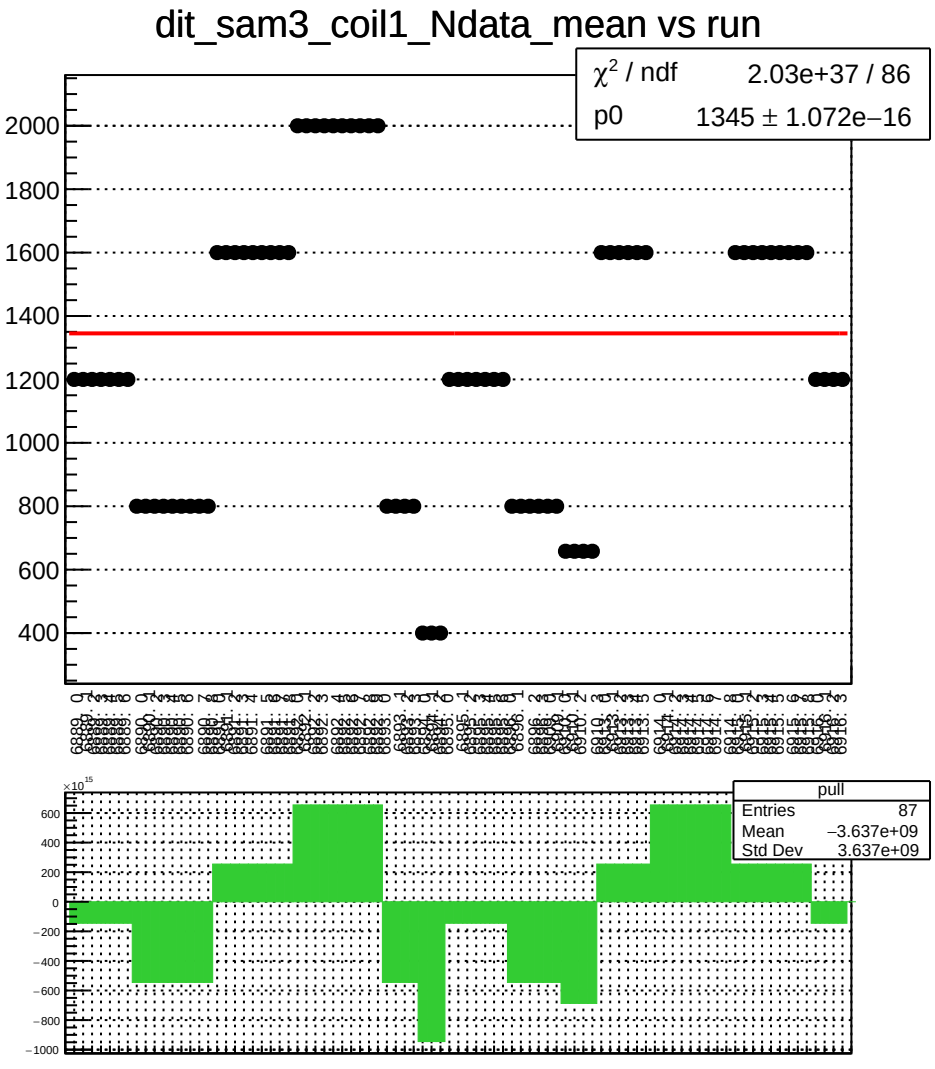

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

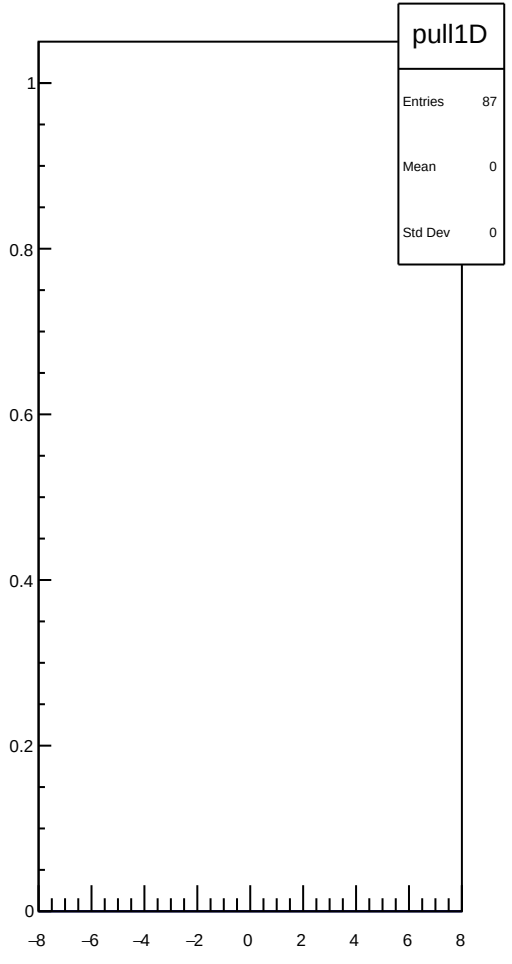

dit_sam3_coil1_mean vs run
χ² / ndf 9.146e+37 / 86
p0 5.737e+04 ± 1.072e−16
60000
59500
59000
58500
58000
57500
57000
56500
56000
pull
Entries 87
Mean −5.619e+08
Std Dev 5.619e+08
×10¹⁵
2500
2000
1500
1000
500
0
−500
−1000
−1500

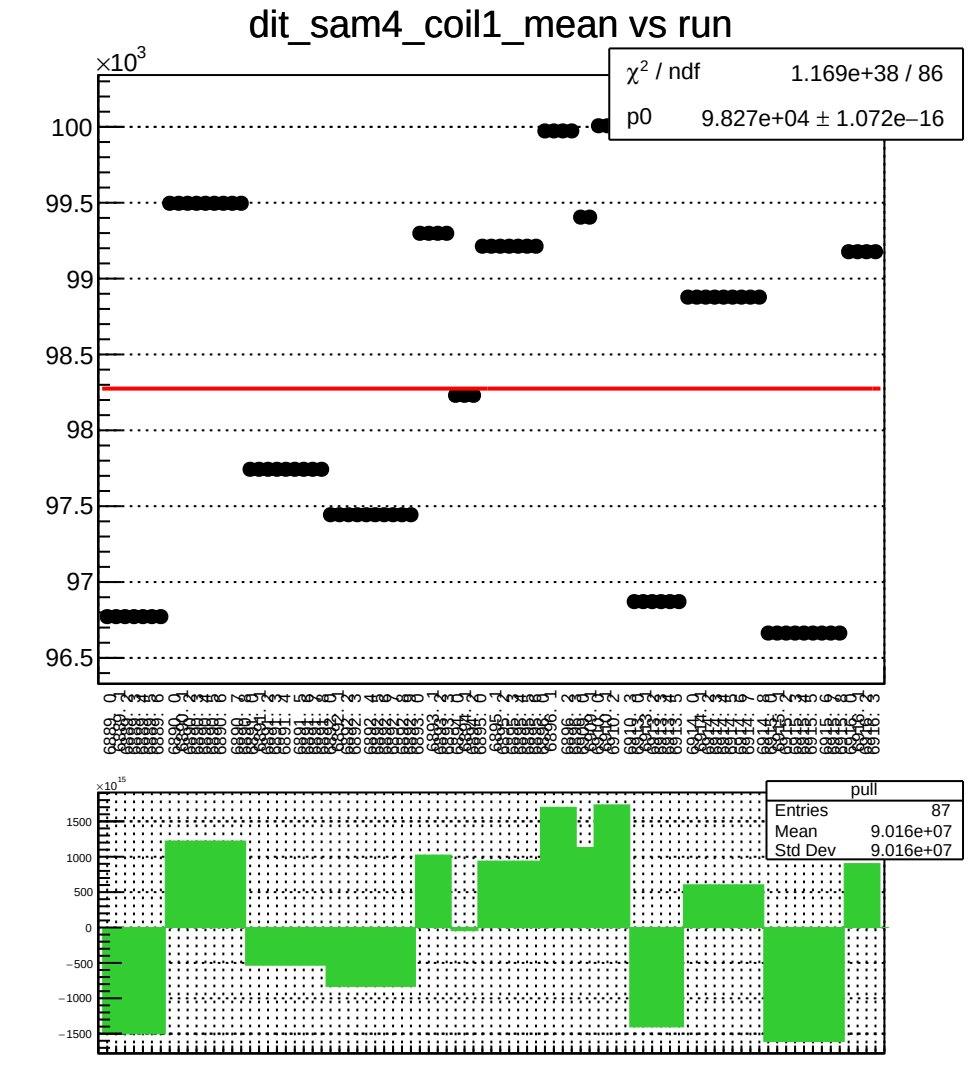

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

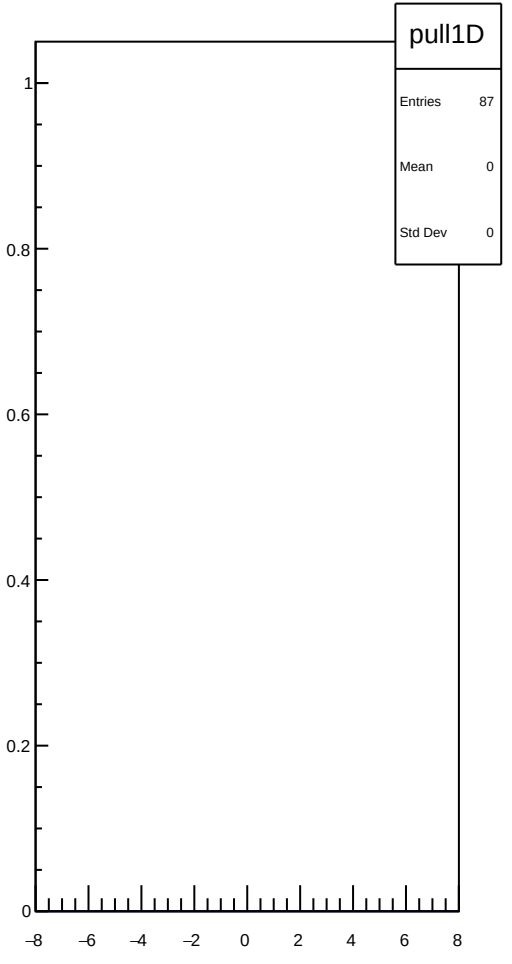

dit_sam3_coil1_err_mean vs run
χ² / ndf 2.398e+36 / 86
p0 642 ± 1.072e−16
1000
900
800
700
600
500
400
pull
Entries 87
Mean 3.26e+08
Std Dev 3.26e+08
×10¹⁵
400
300
200
100
0
−100
−200

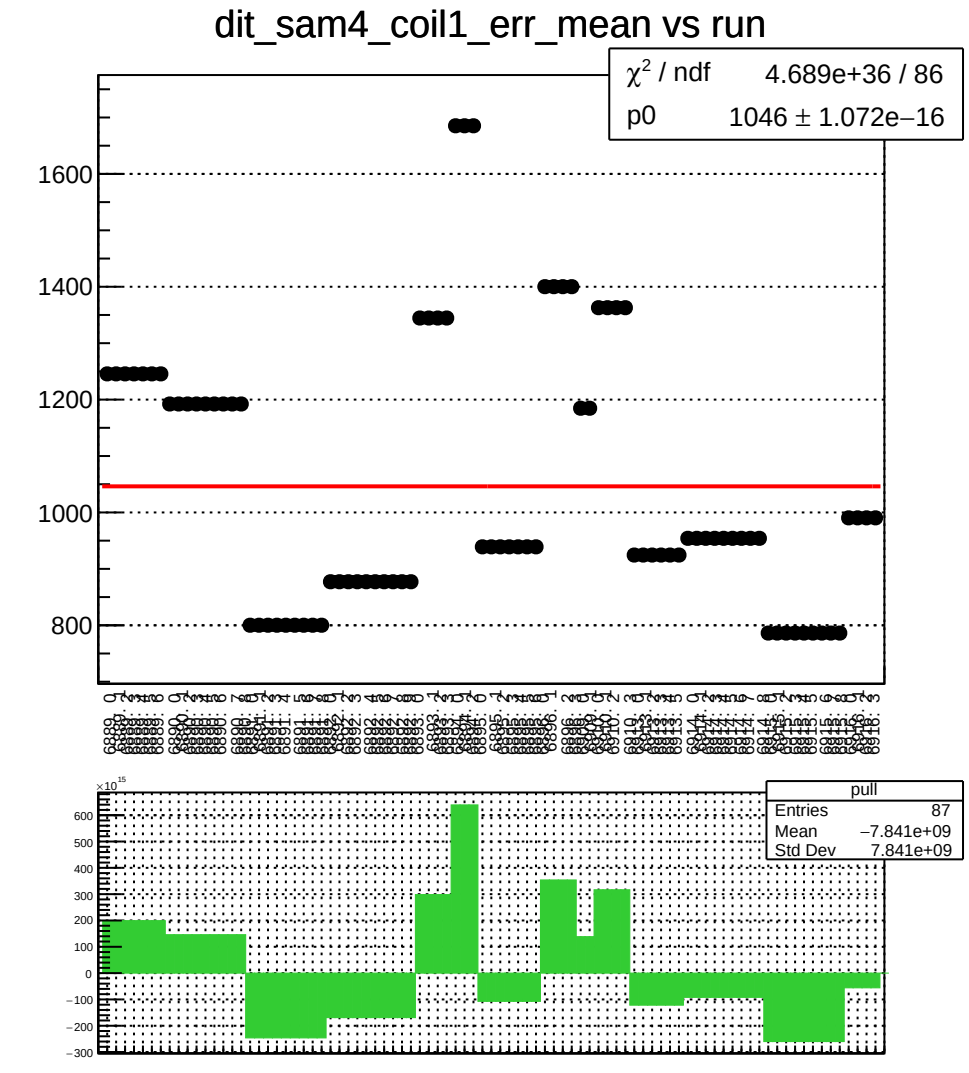

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

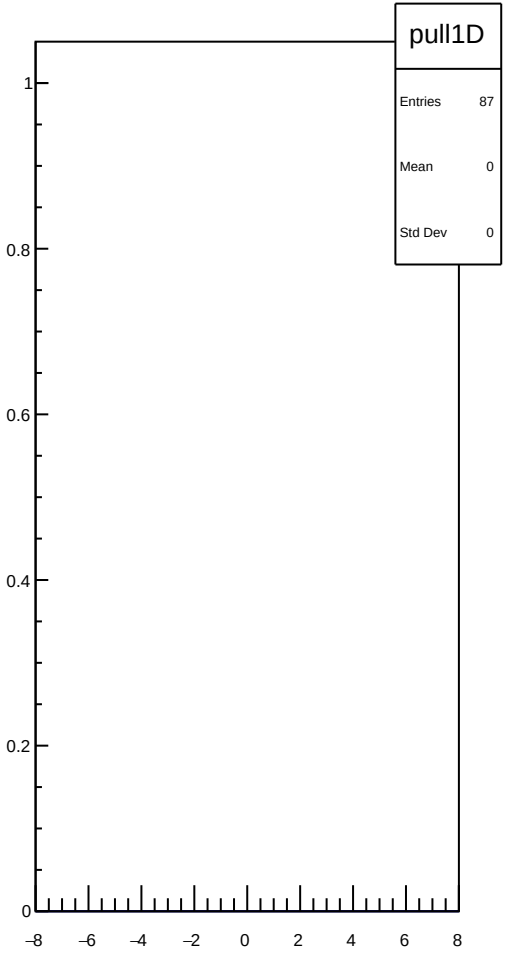

dit_sam3_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

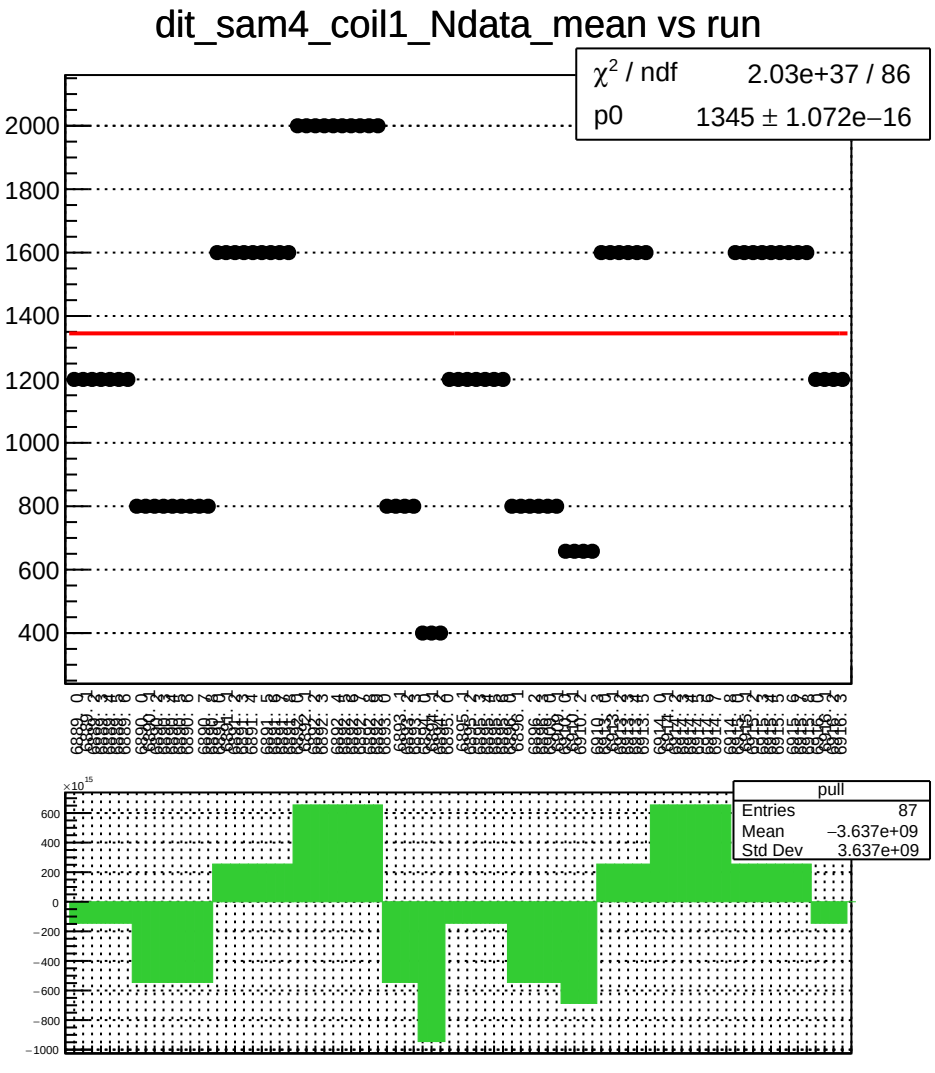

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

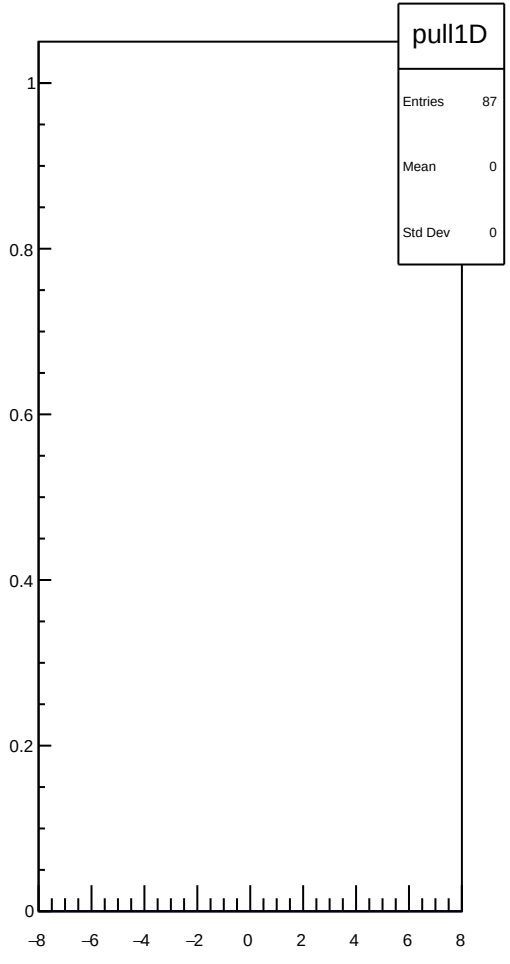

dit_sam4_coil1_mean vs run
×10^3
χ² / ndf 1.169e+38 / 86
p0 9.827e+04 ± 1.072e−16
100
99.5
99
98.5
98
97.5
97
96.5
×10^15
1500
1000
500
0
−500
−1000
−1500
pull
Entries 87
Mean 9.016e+07
Std Dev 9.016e+07

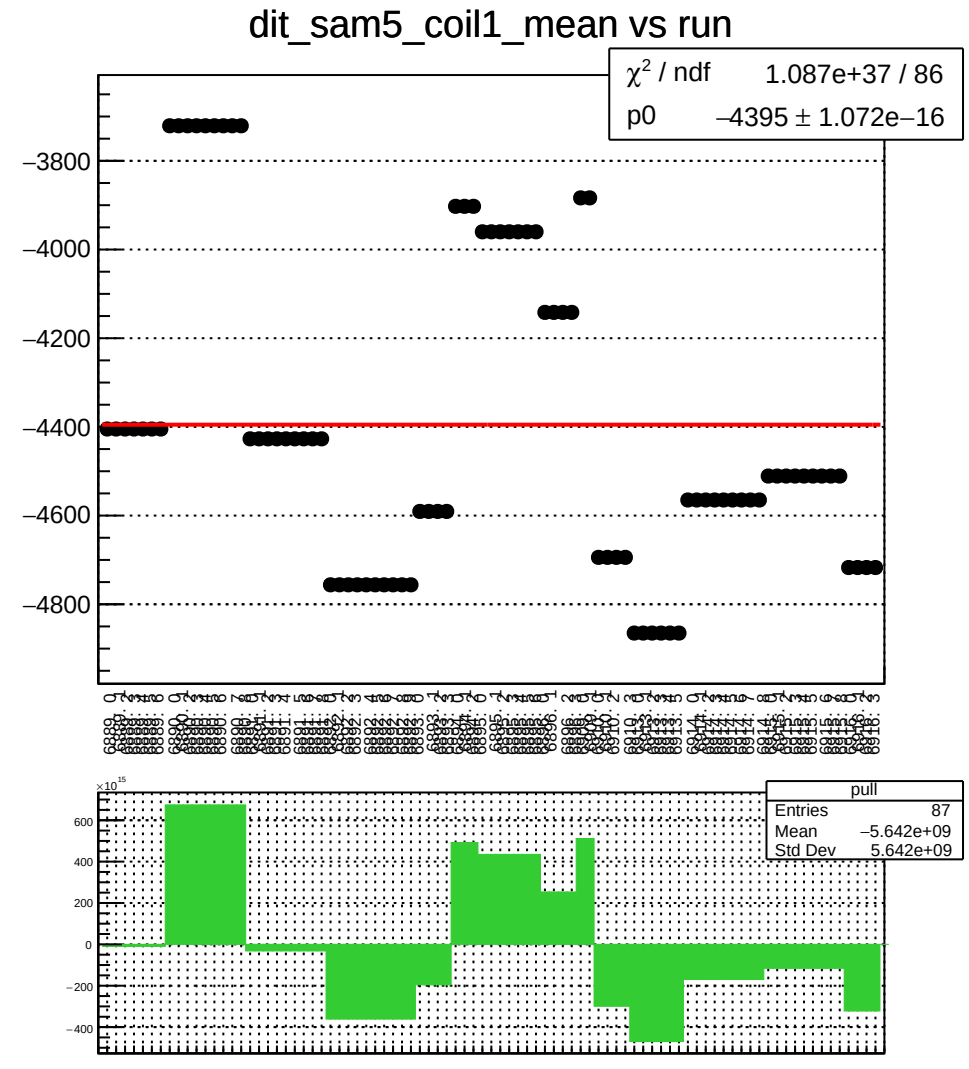

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

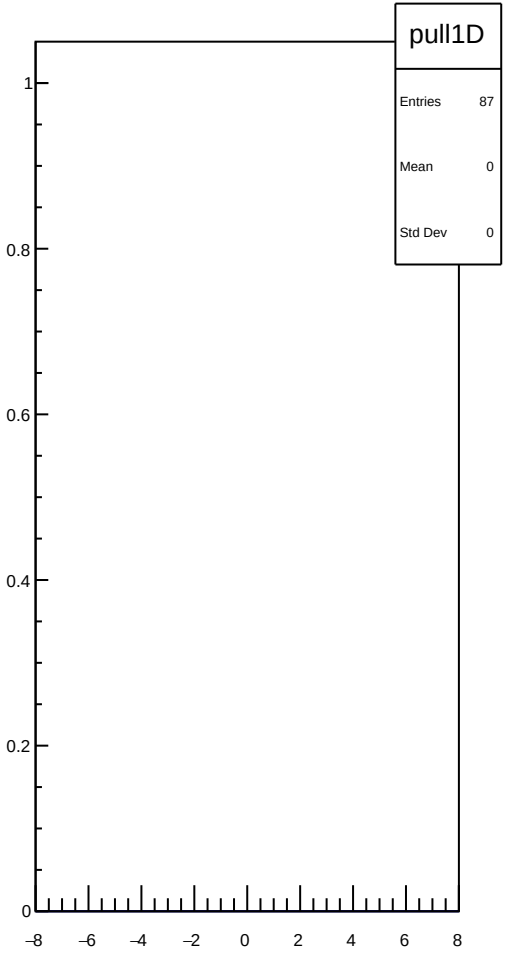

dit_sam4_coil1_err_mean vs run
χ² / ndf 4.689e+36 / 86
p0 1046 ± 1.072e−16
1600
1400
1200
1000
800
×10¹⁵
600
500
400
300
200
100
0
−100
−200
−300
pull
Entries 87
Mean −7.841e+09
Std Dev 7.841e+09

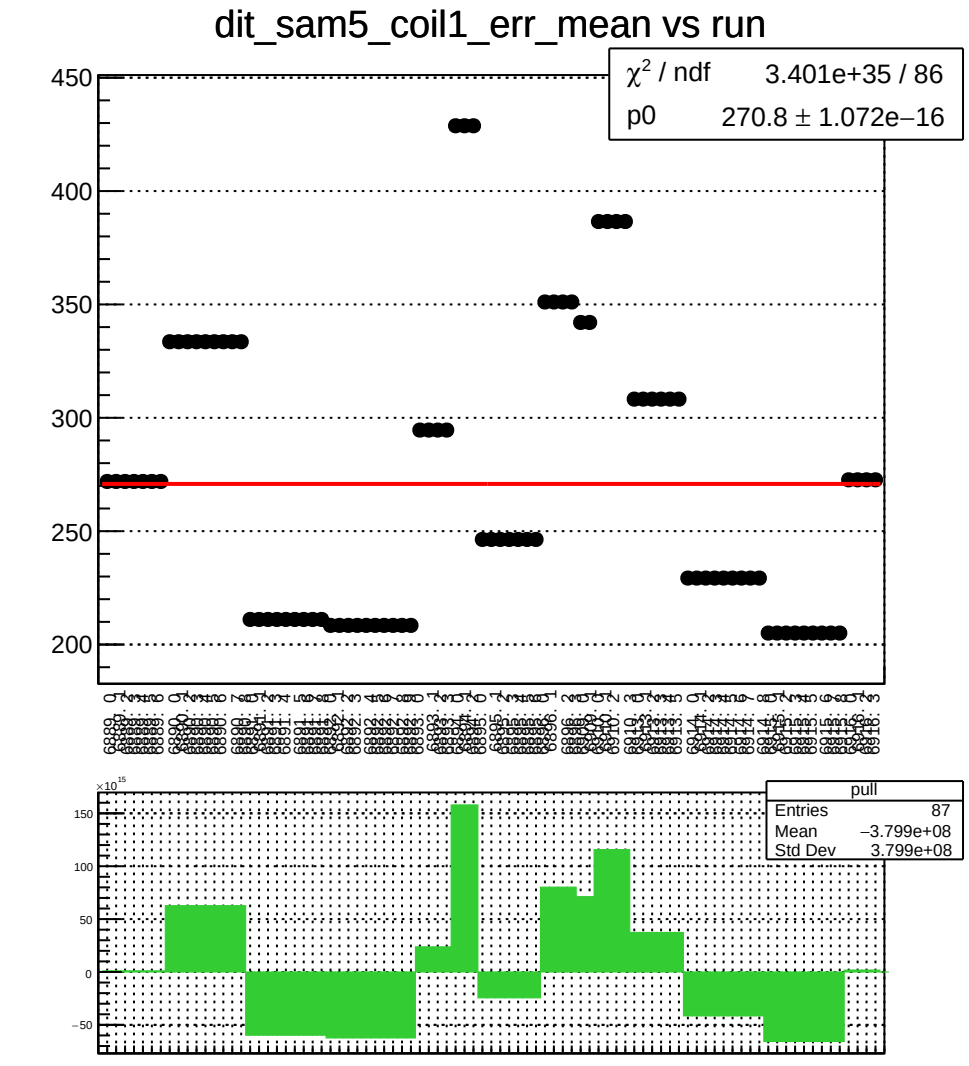

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

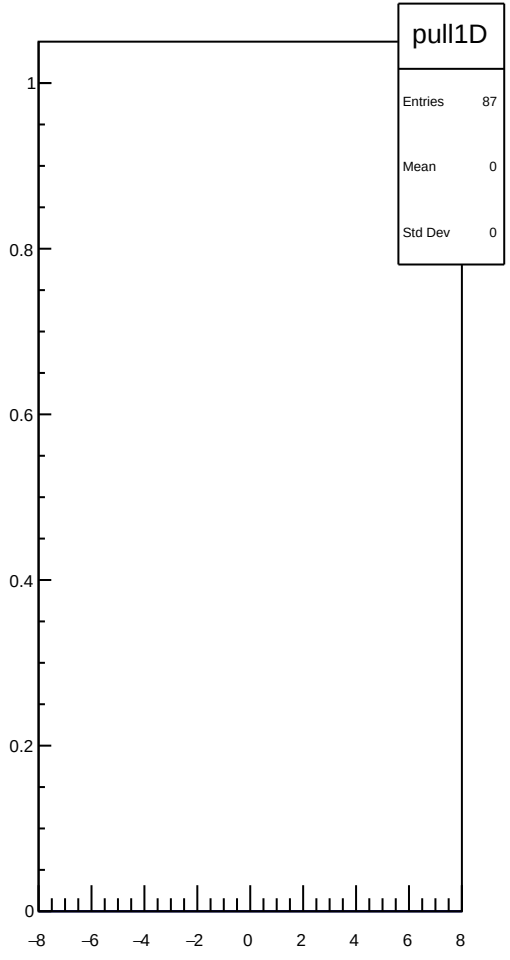

dit_sam4_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

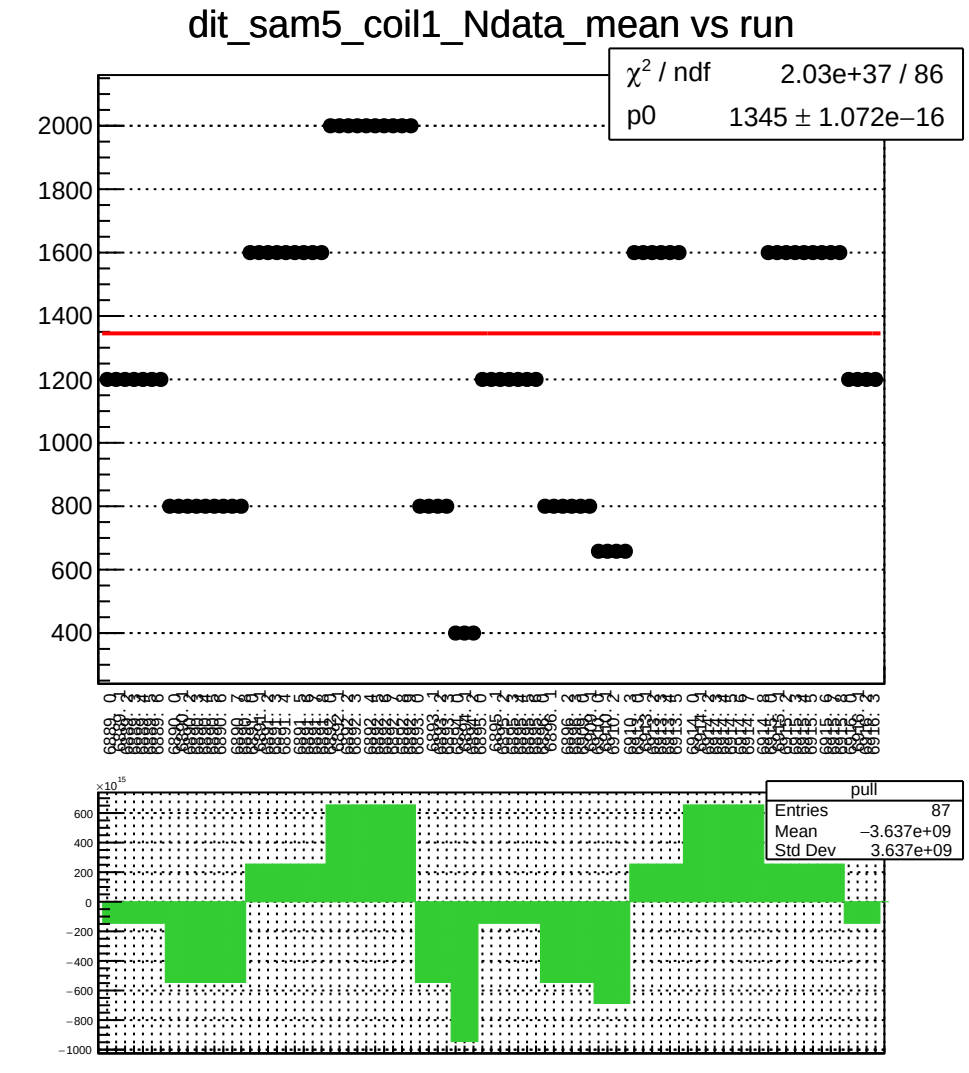

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

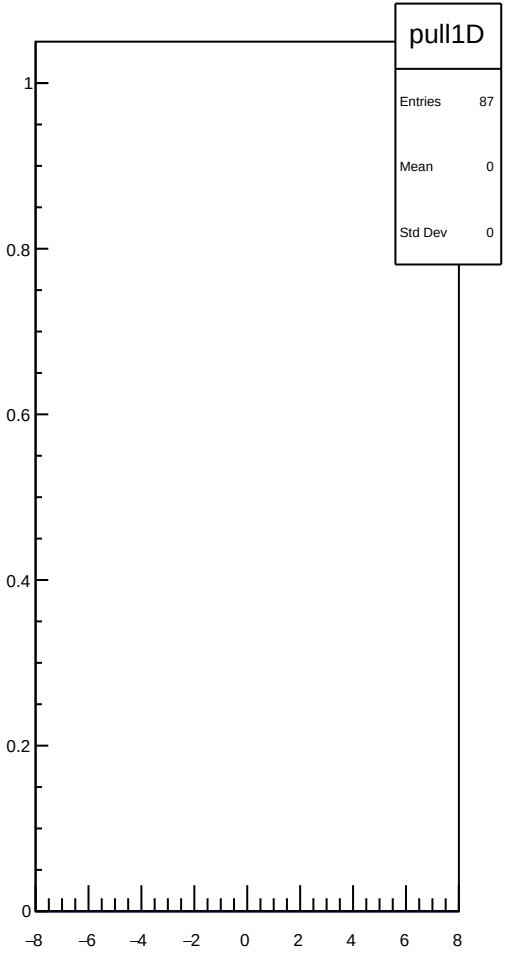

dit_sam5_coil1_mean vs run
χ² / ndf 1.087e+37 / 86
p0 −4395 ± 1.072e−16
−3800
−4000
−4200
−4400
−4600
−4800
pull
Entries 87
Mean −5.642e+09
Std Dev 5.642e+09
×10¹⁵
600
400
200
0
−200
−400

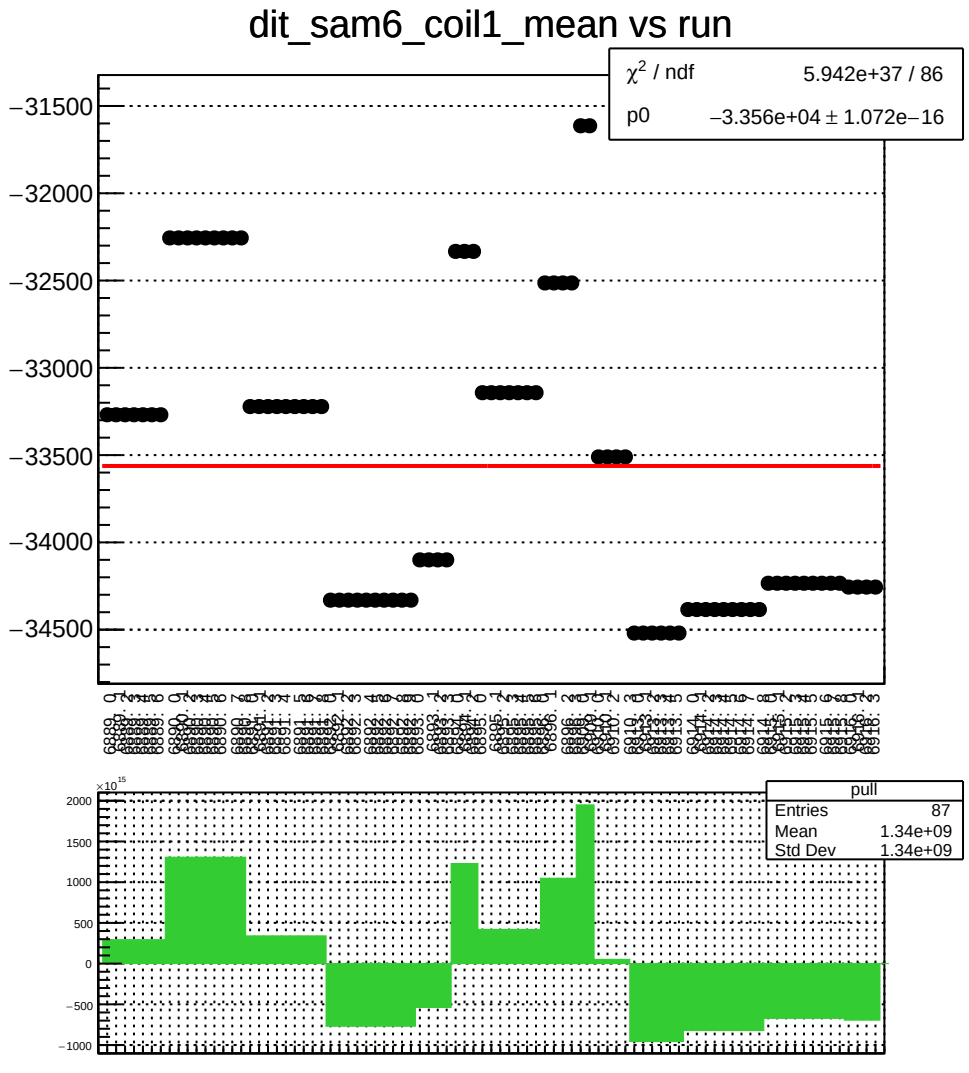

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

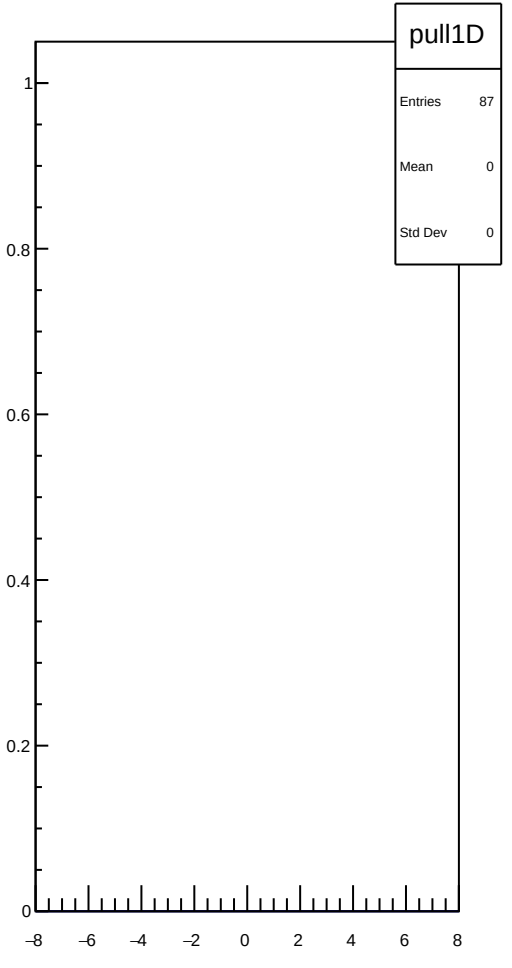

dit_sam5_coil1_err_mean vs run
χ² / ndf 3.401e+35 / 86
p0 270.8 ± 1.072e−16
450
400
350
300
250
200
pull
Entries 87
Mean −3.799e+08
Std Dev 3.799e+08
×10¹⁵
150
100
50
0
−50

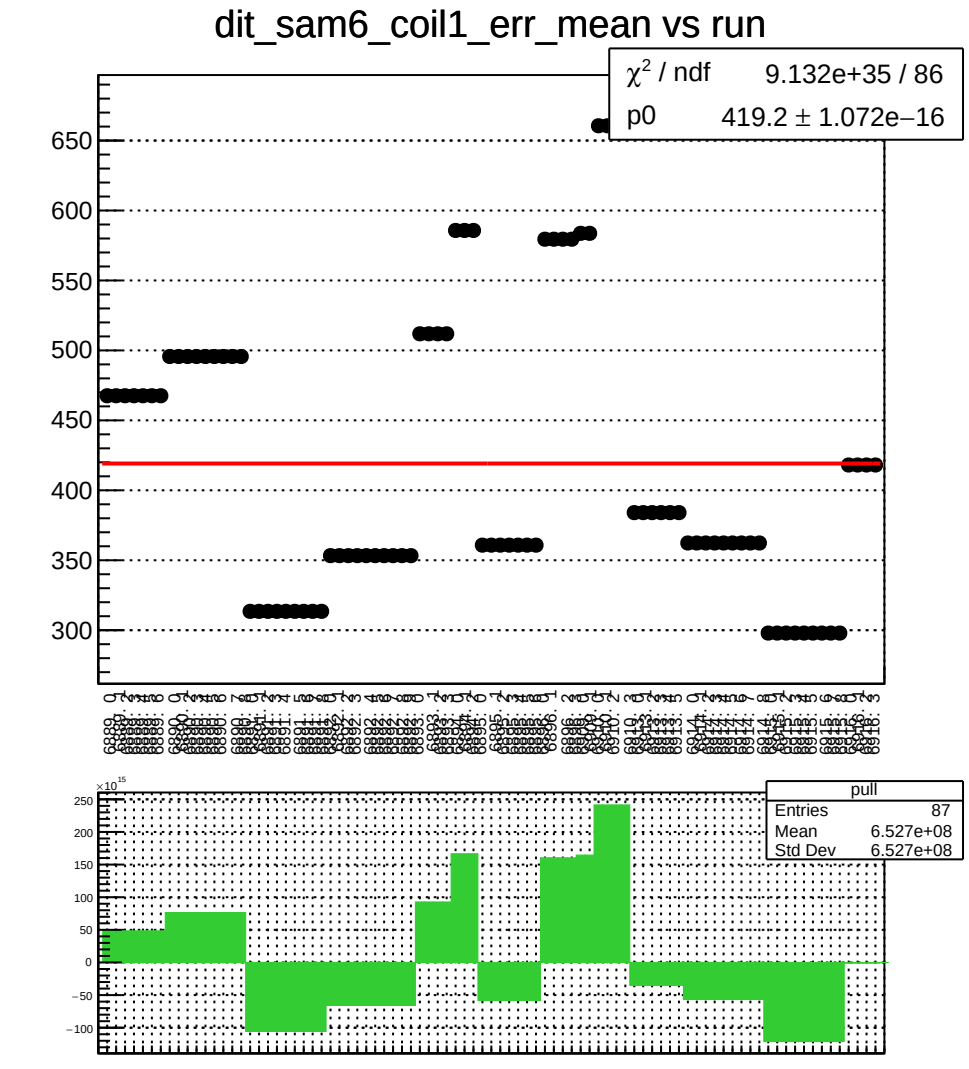

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

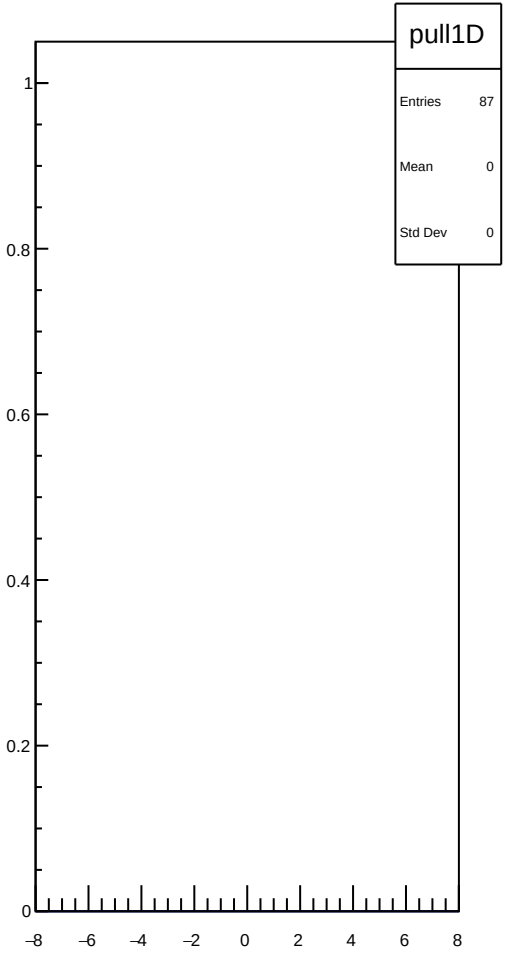

dit_sam5_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

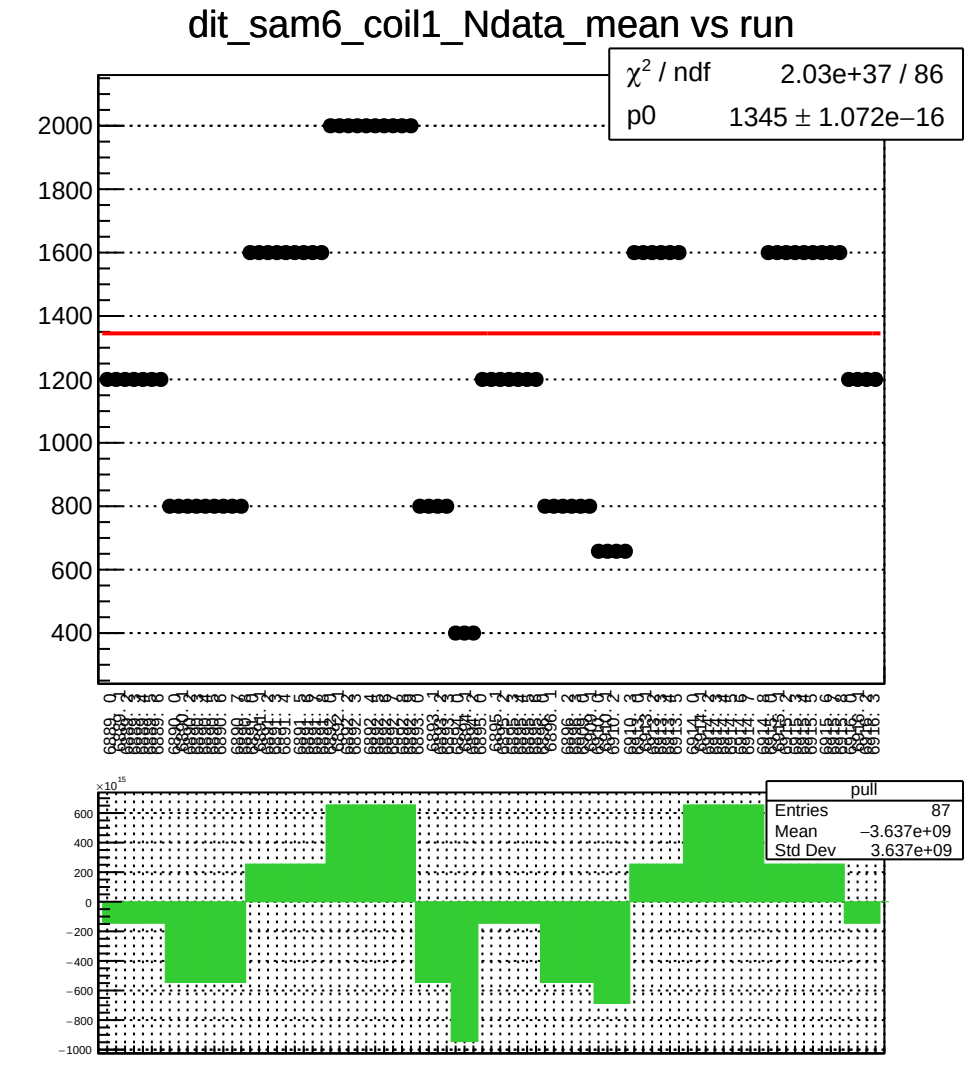

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

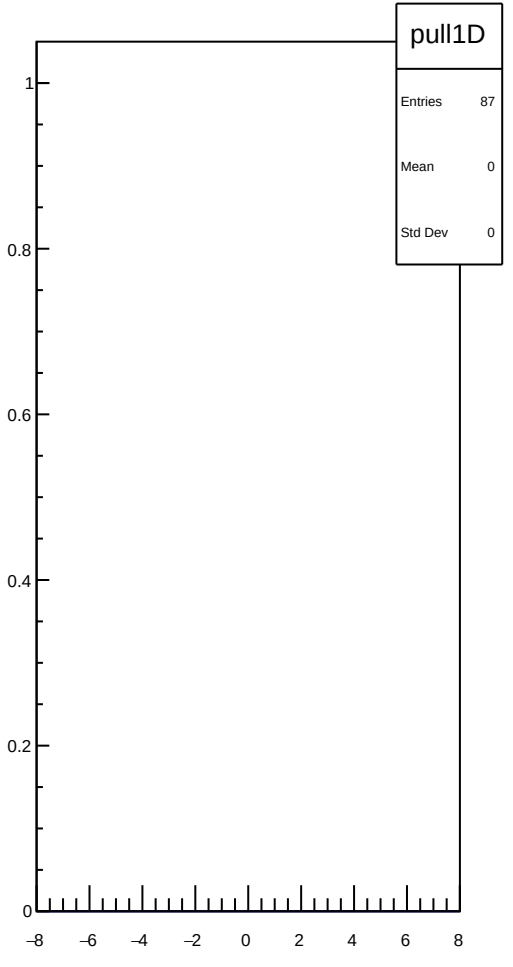

dit_sam6_coil1_mean vs run
χ² / ndf 5.942e+37 / 86
p0 −3.356e+04 ± 1.072e−16
−31500
−32000
−32500
−33000
−33500
−34000
−34500
×10¹⁵
2000
1500
1000
500
0
−500
−1000
pull
Entries 87
Mean 1.34e+09
Std Dev 1.34e+09

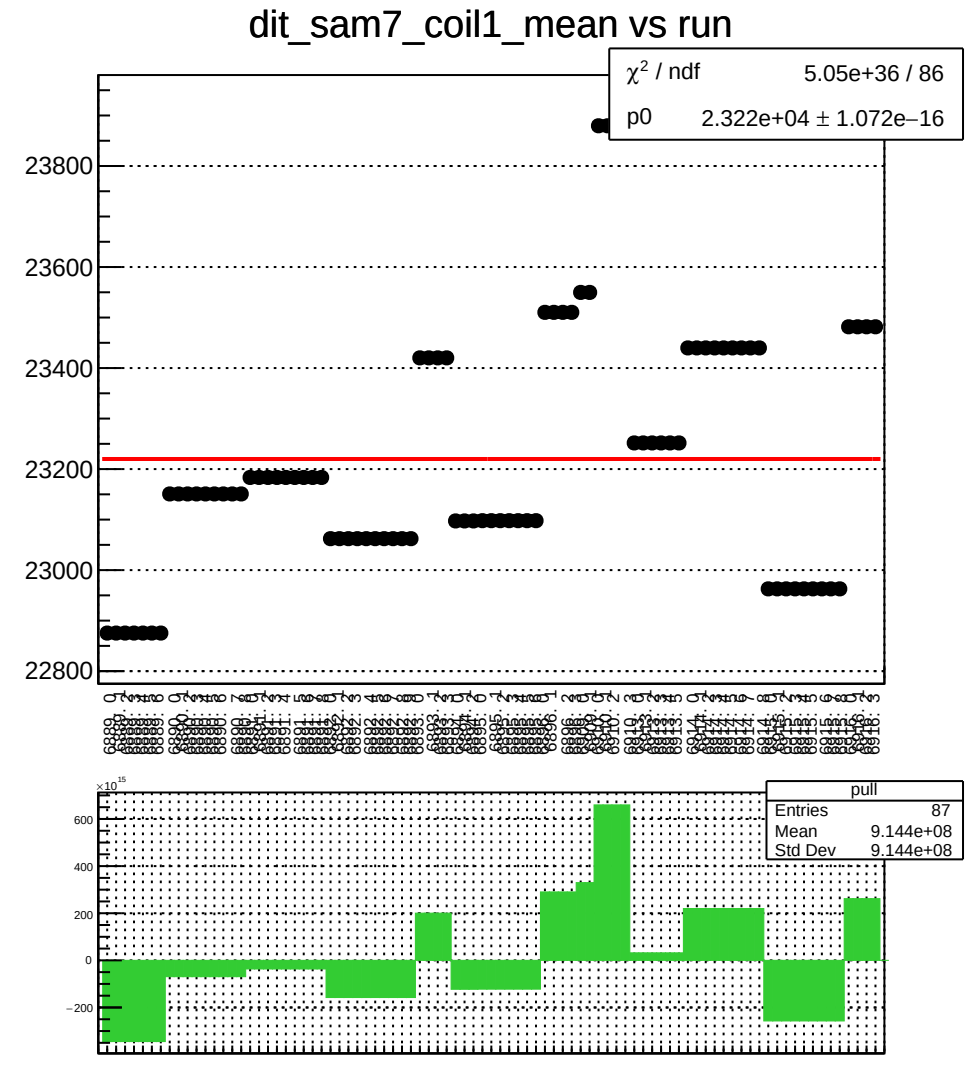

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

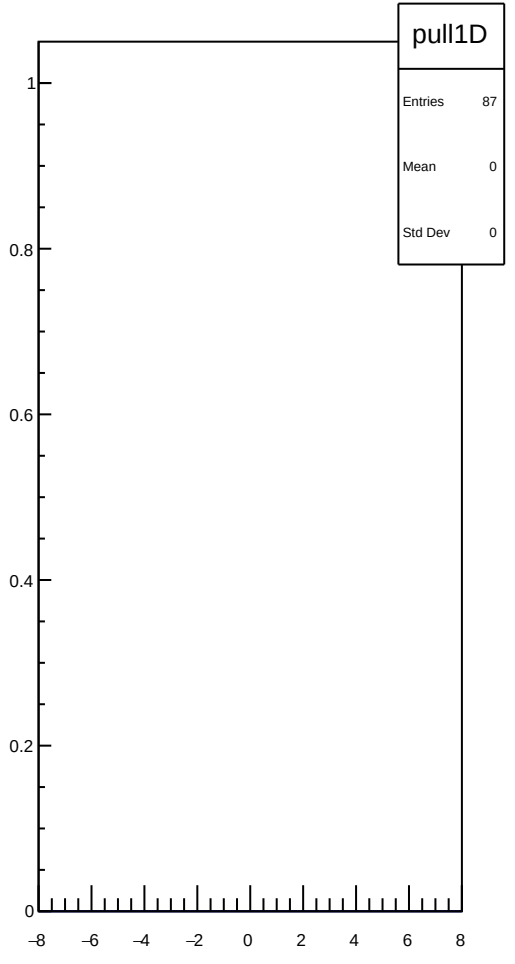

dit_sam6_coil1_err_mean vs run
χ² / ndf 9.132e+35 / 86
p0 419.2 ± 1.072e−16
650
600
550
500
450
400
350
300
pull
Entries 87
Mean 6.527e+08
Std Dev 6.527e+08
×10¹⁵
250
200
150
100
50
0
−50
−100

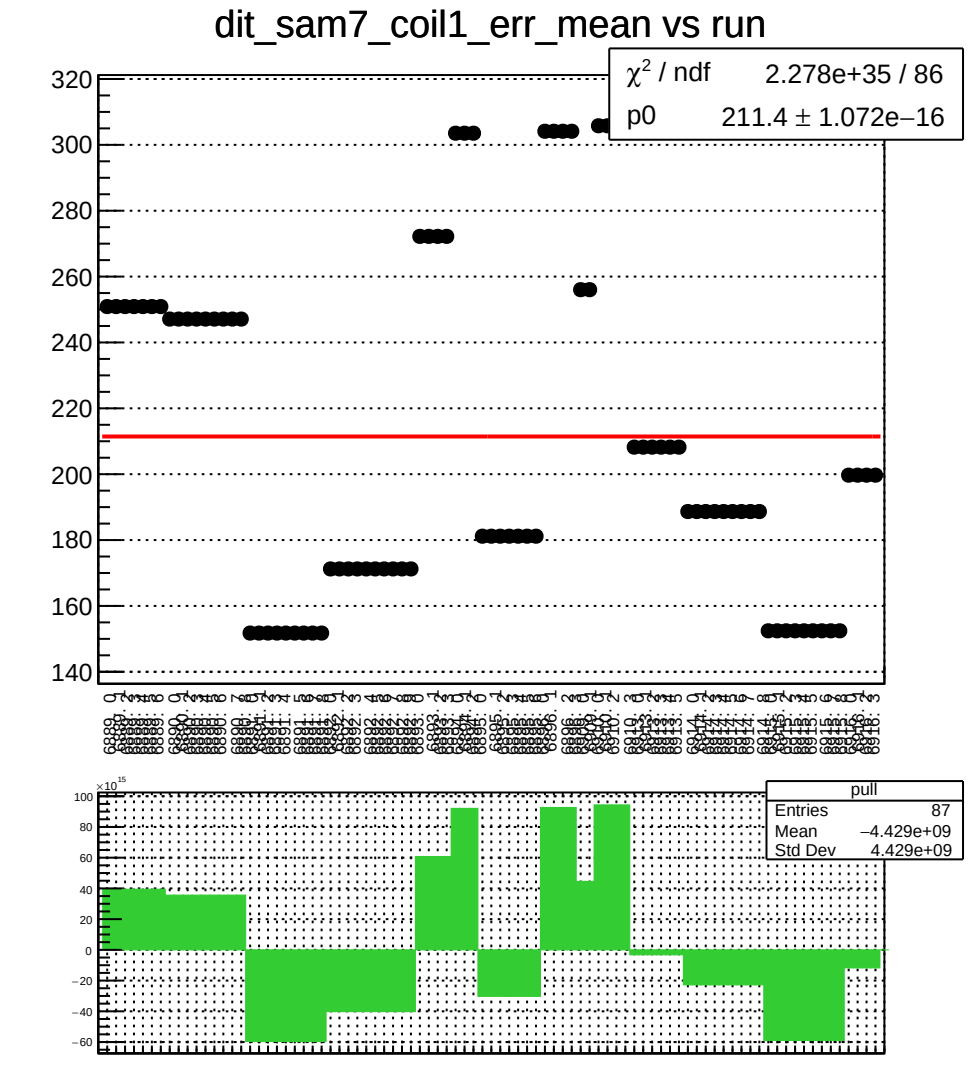

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

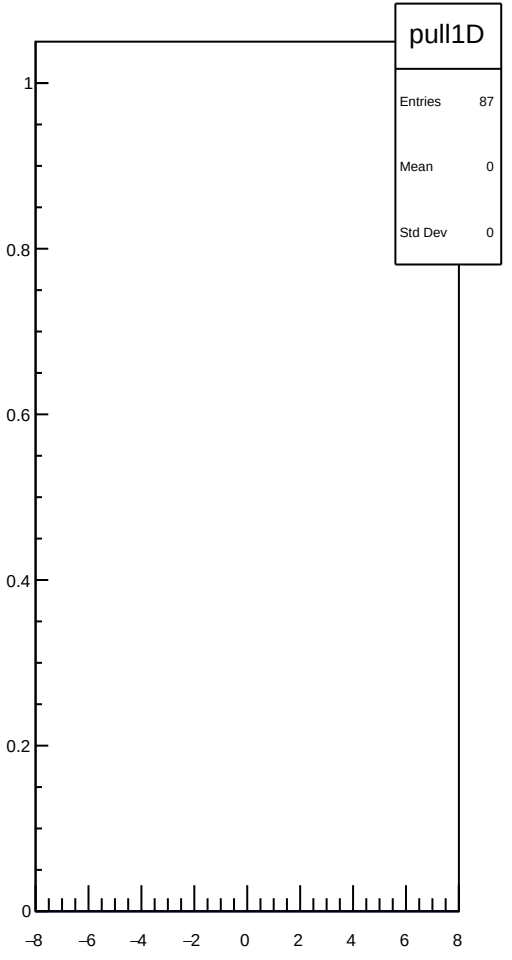

dit_sam6_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

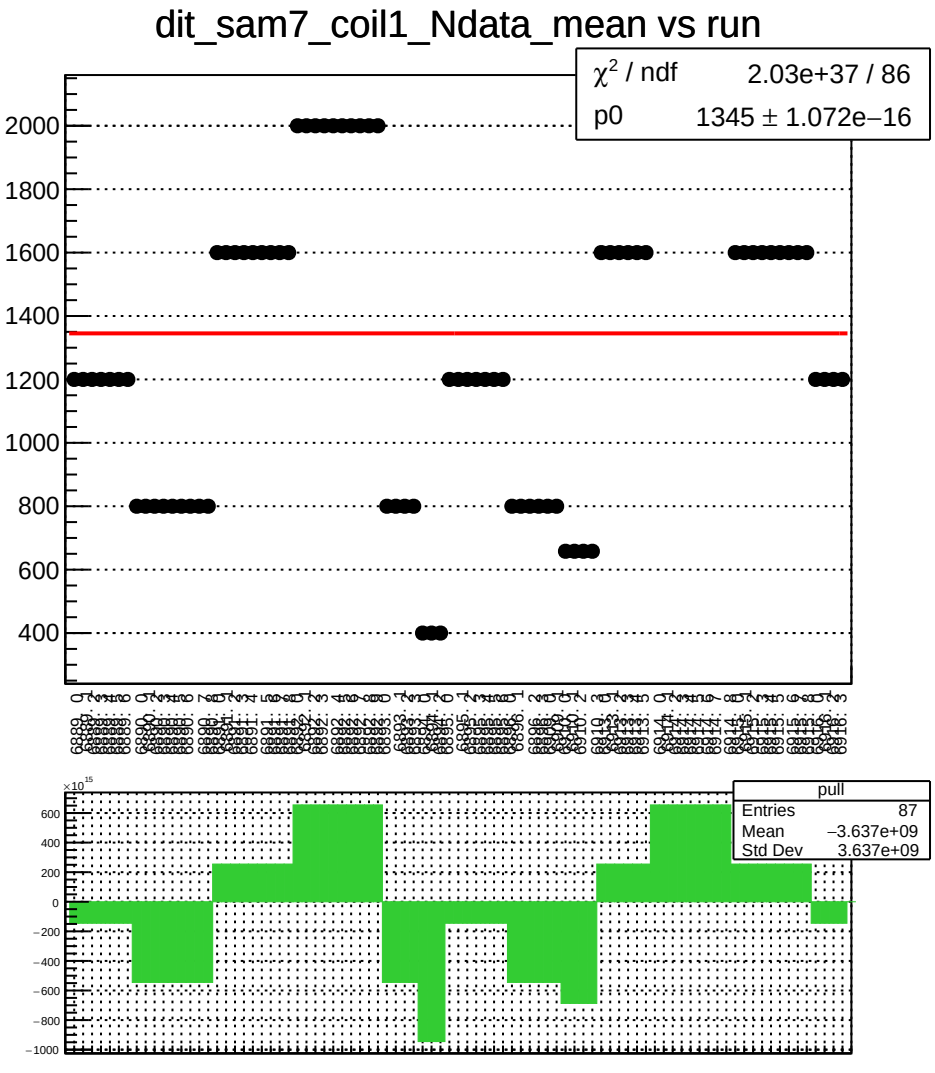

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

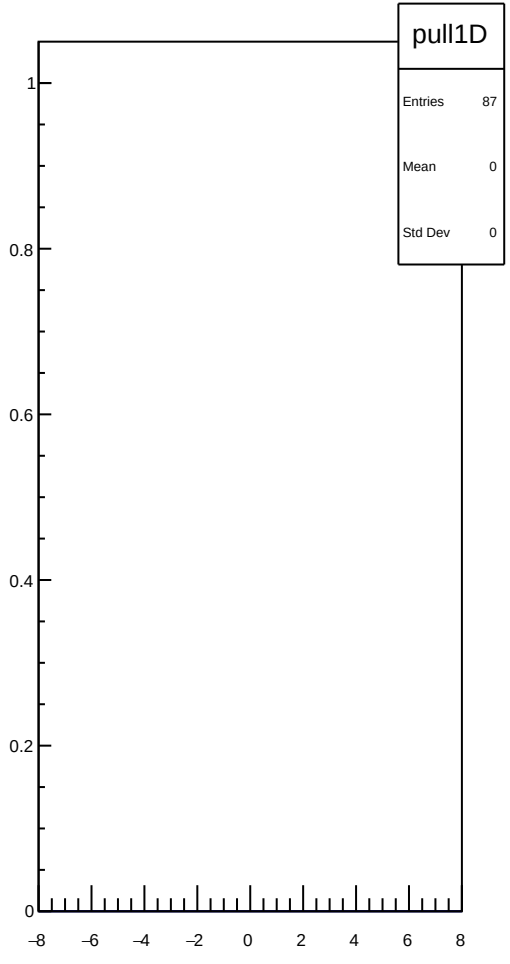

dit_sam7_coil1_mean vs run
χ² / ndf 5.05e+36 / 86
p0 2.322e+04 ± 1.072e−16
23800
23600
23400
23200
23000
22800
×10¹⁵
600
400
200
0
−200
pull
Entries 87
Mean 9.144e+08
Std Dev 9.144e+08

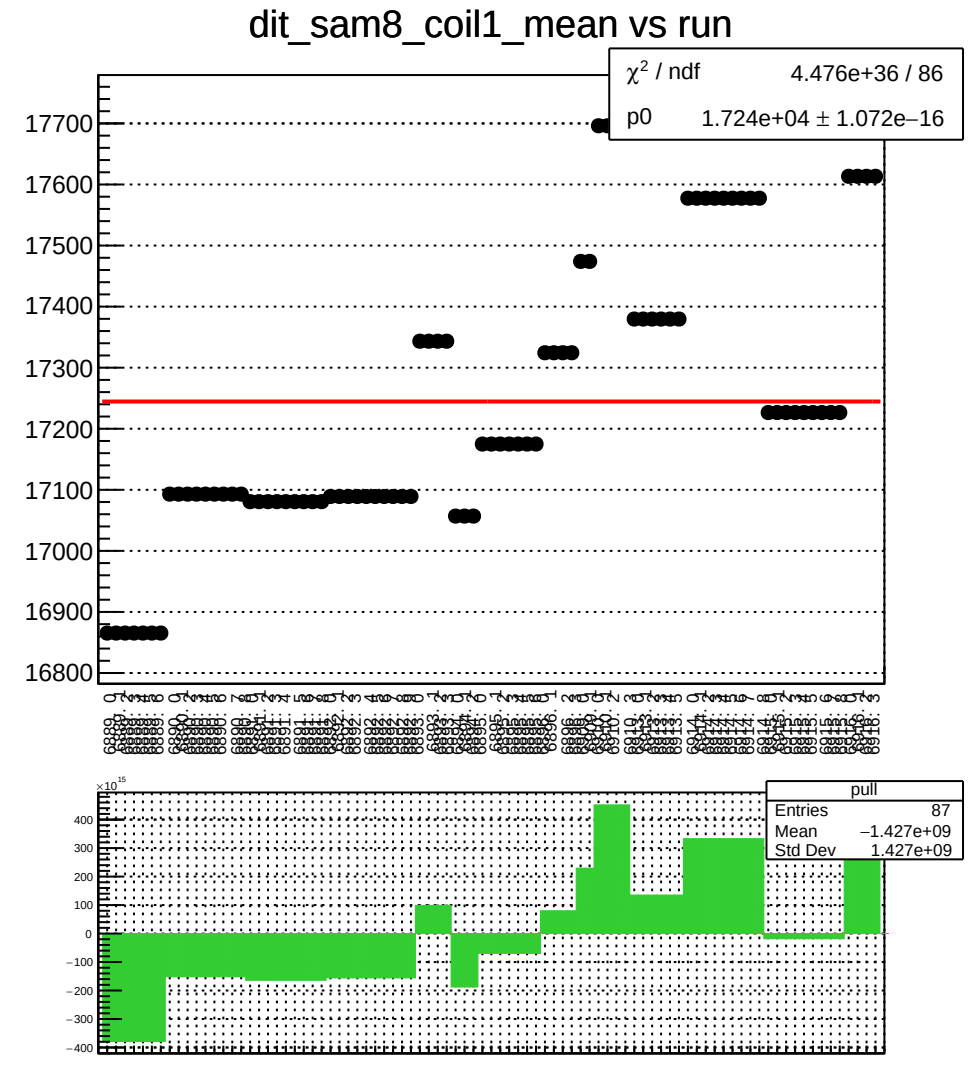

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

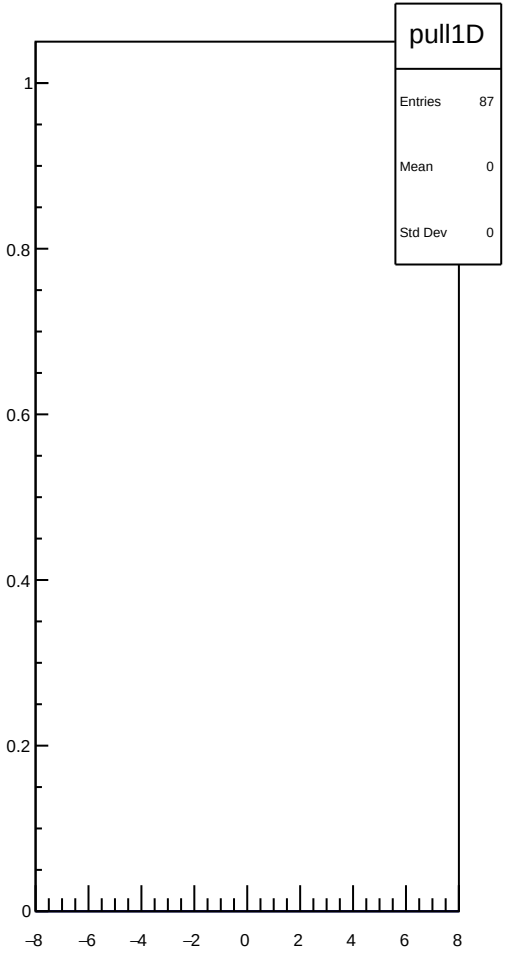

dit_sam7_coil1_err_mean vs run
χ² / ndf 2.278e+35 / 86
p0 211.4 ± 1.072e−16
320
300
280
260
240
220
200
180
160
140
pull
Entries 87
Mean −4.429e+09
Std Dev 4.429e+09
×10¹⁵
100
80
60
40
20
0
−20
−40
−60

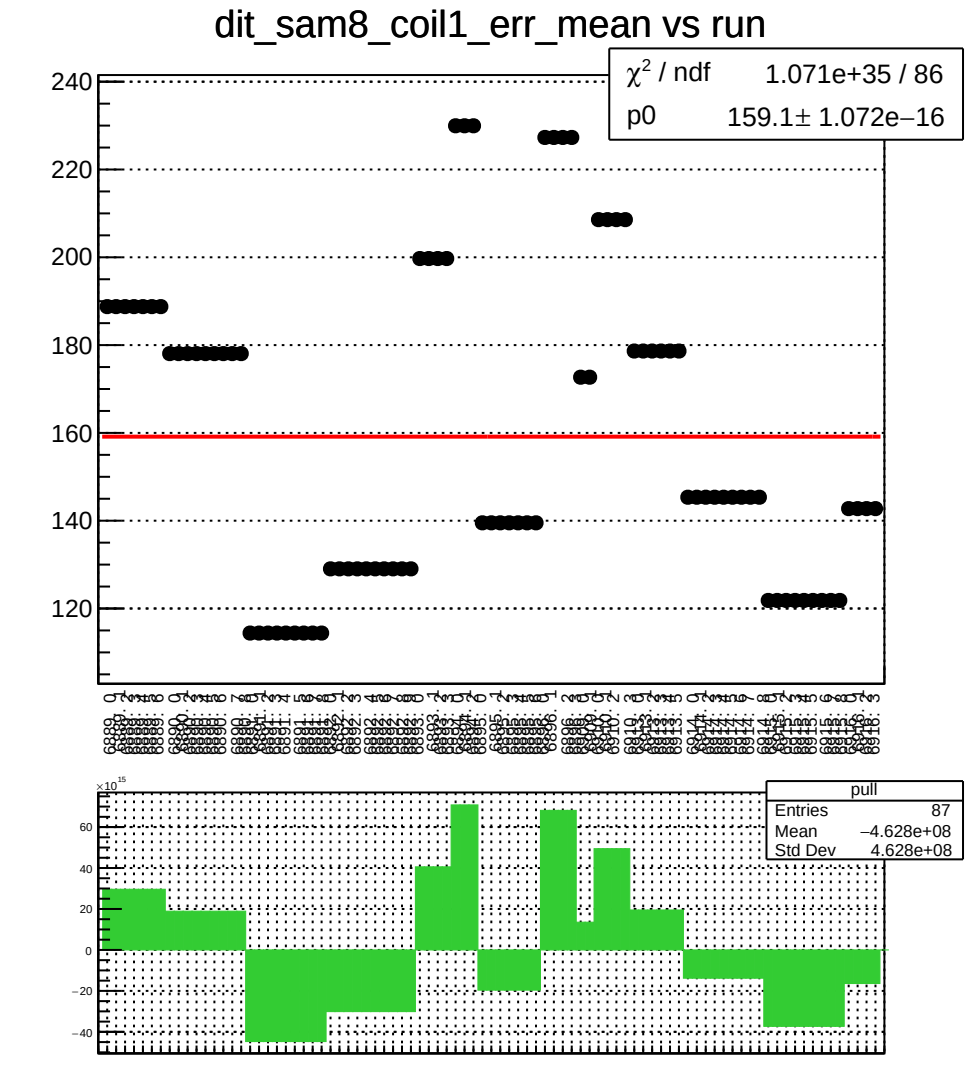

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

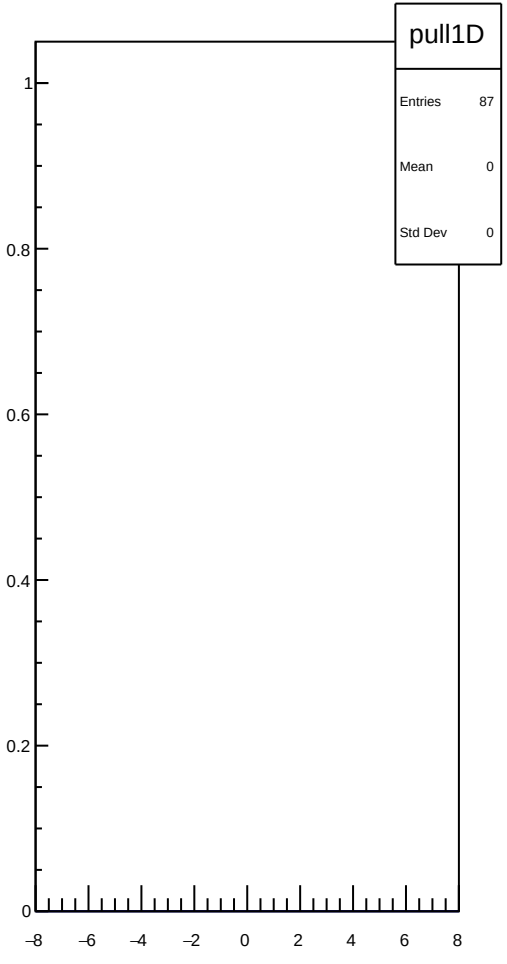

dit_sam7_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

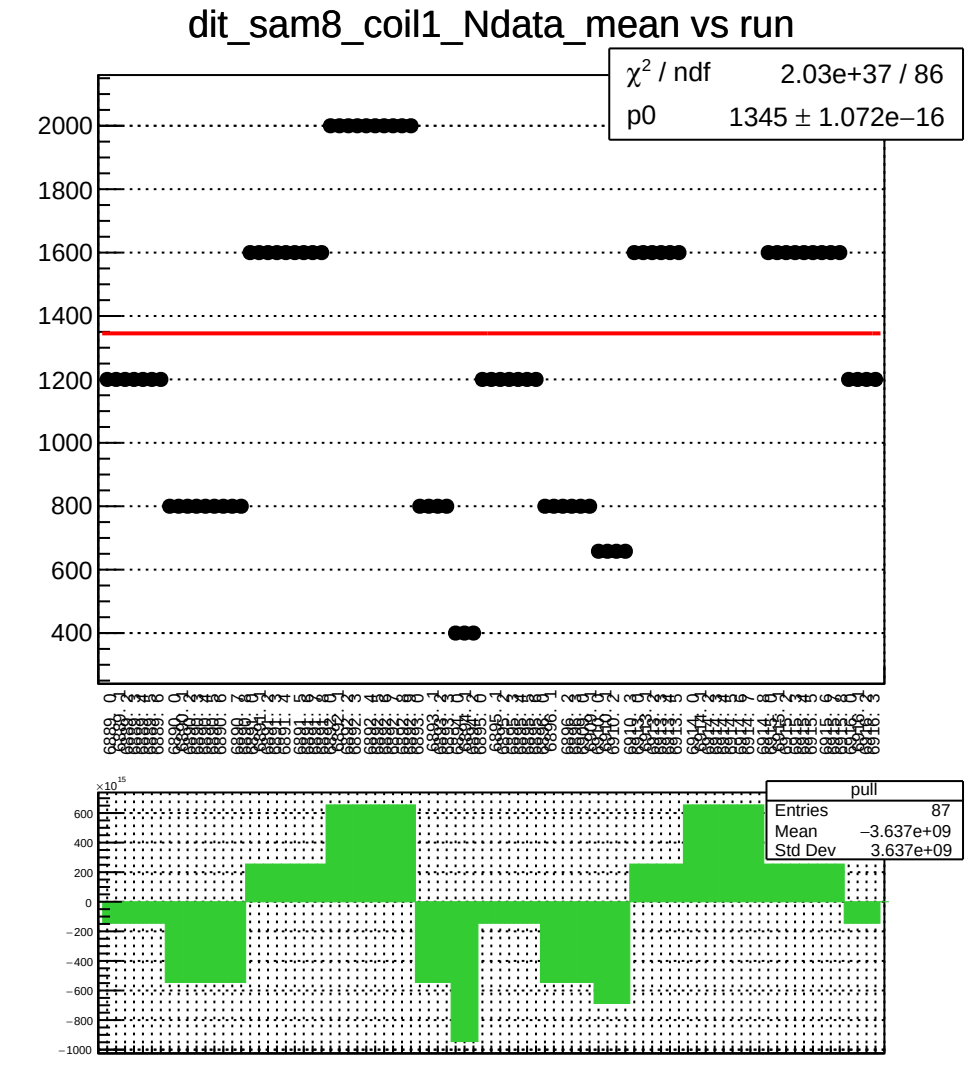

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

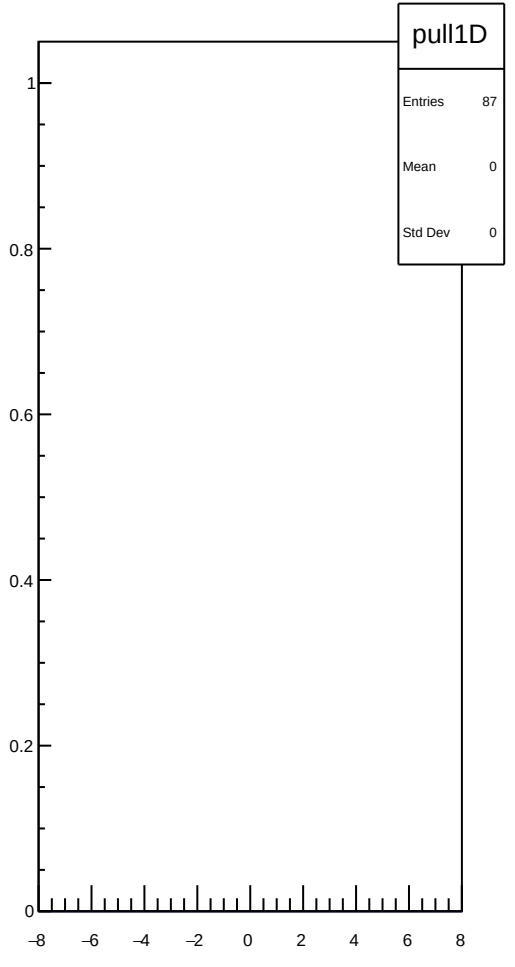

dit_sam8_coil1_mean vs run
χ² / ndf 4.476e+36 / 86
p0 1.724e+04 ± 1.072e−16
17700
17600
17500
17400
17300
17200
17100
17000
16900
16800
pull
Entries 87
Mean −1.427e+09
Std Dev 1.427e+09
×10^15
400
300
200
100
0
−100
−200
−300
−400

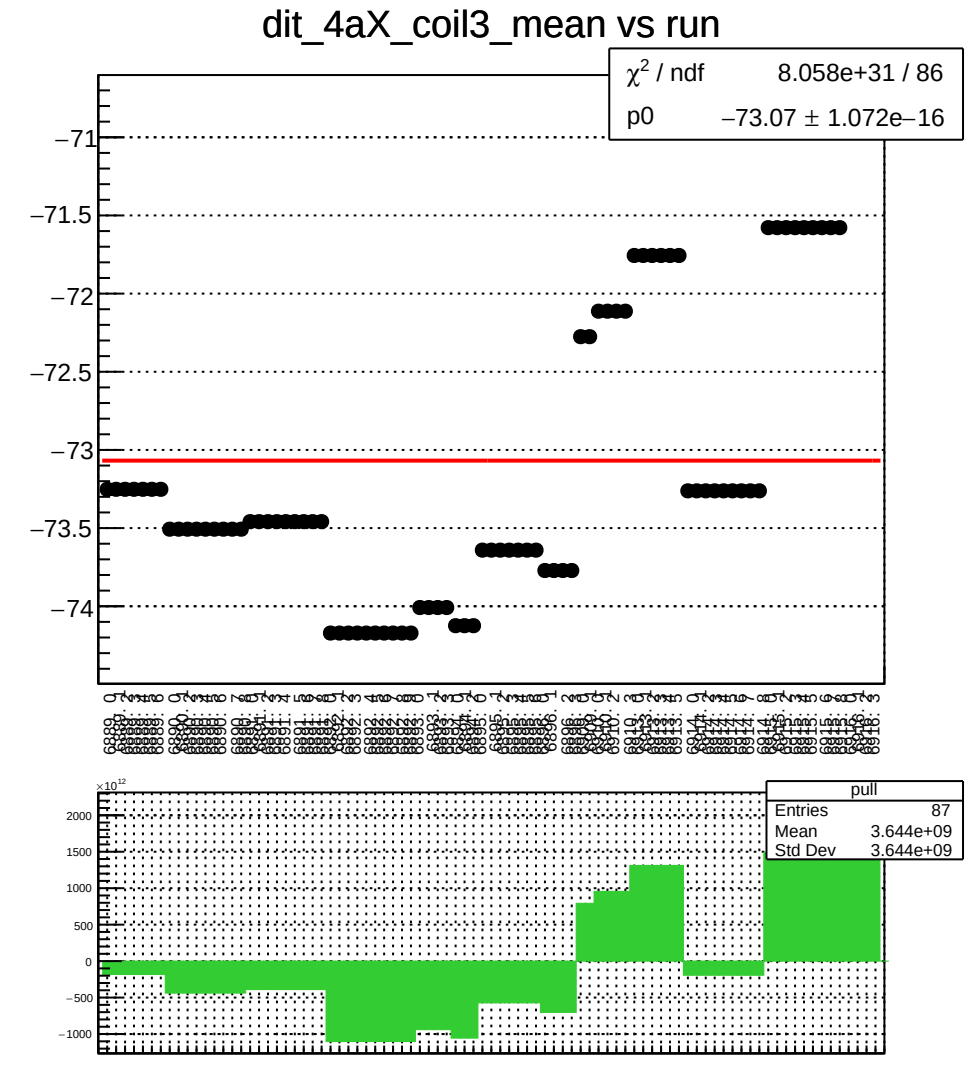

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

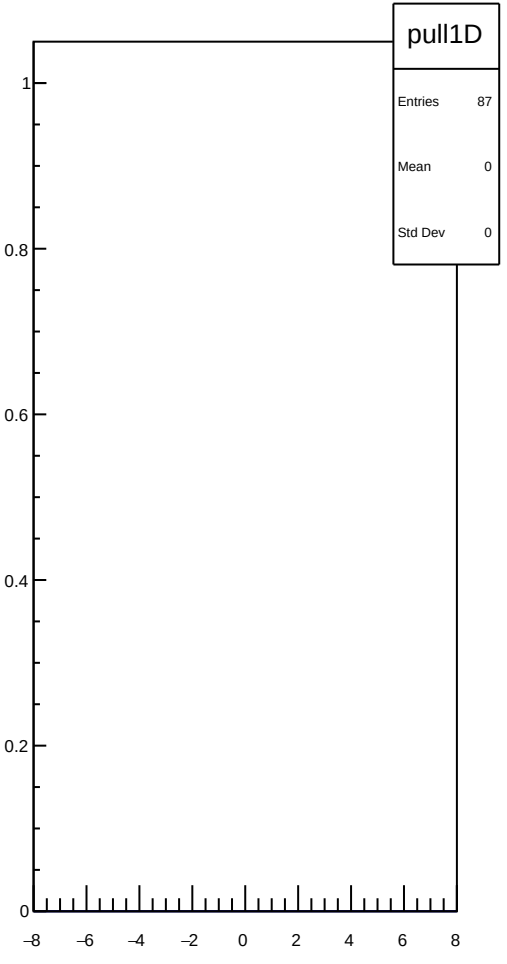

dit_sam8_coil1_err_mean vs run
χ² / ndf 1.071e+35 / 86
p0 159.1± 1.072e−16
240
220
200
180
160
140
120
pull
Entries 87
Mean −4.628e+08
Std Dev 4.628e+08
×10¹⁵
60
40
20
0
−20
−40

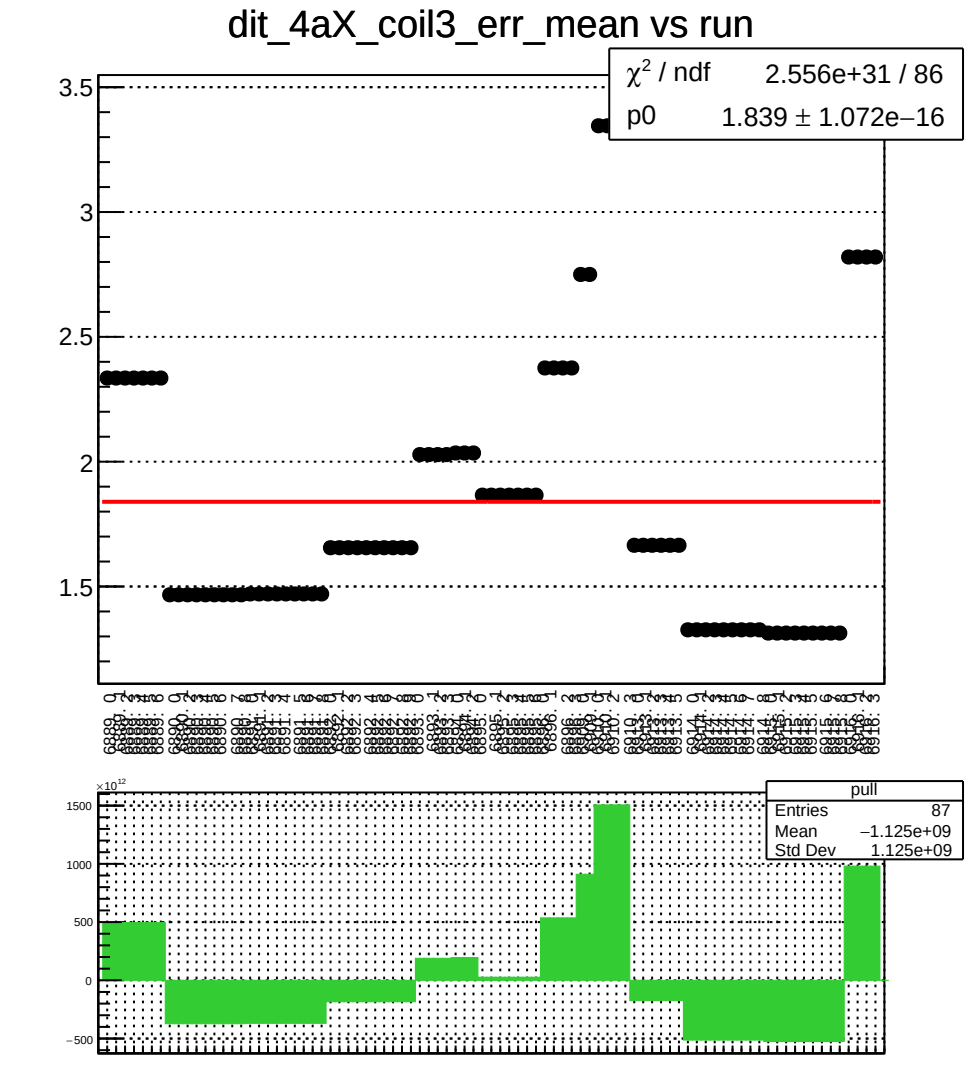

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

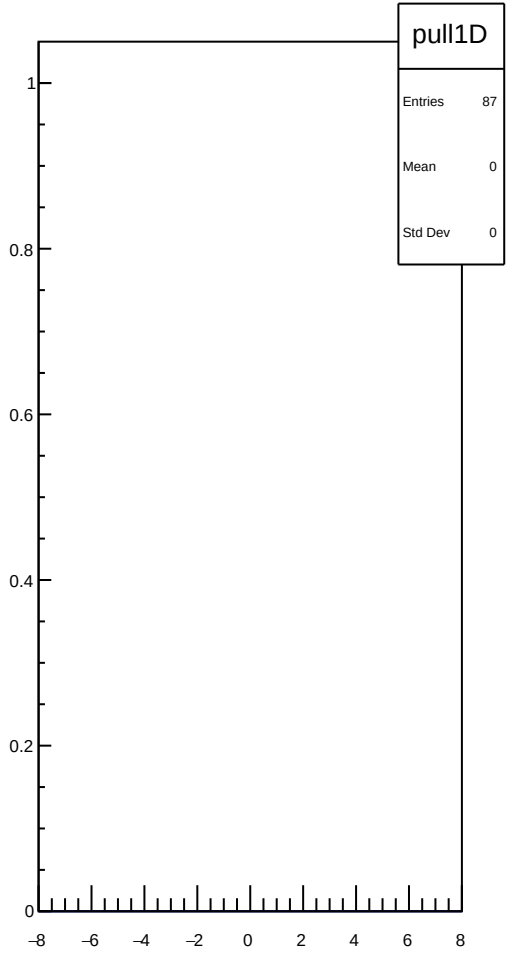

dit_sam8_coil1_Ndata_mean vs run
χ² / ndf 2.03e+37 / 86
p0 1345 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −3.637e+09
Std Dev 3.637e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

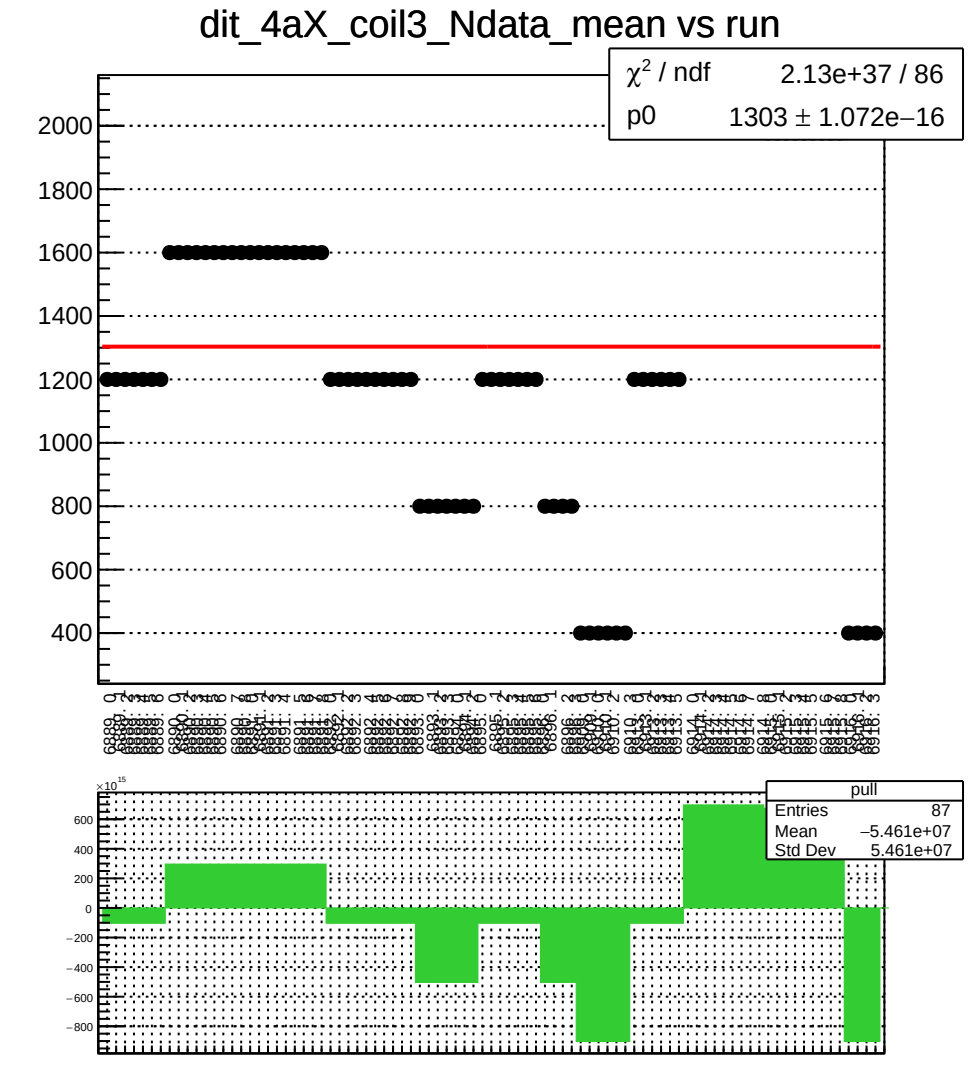

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

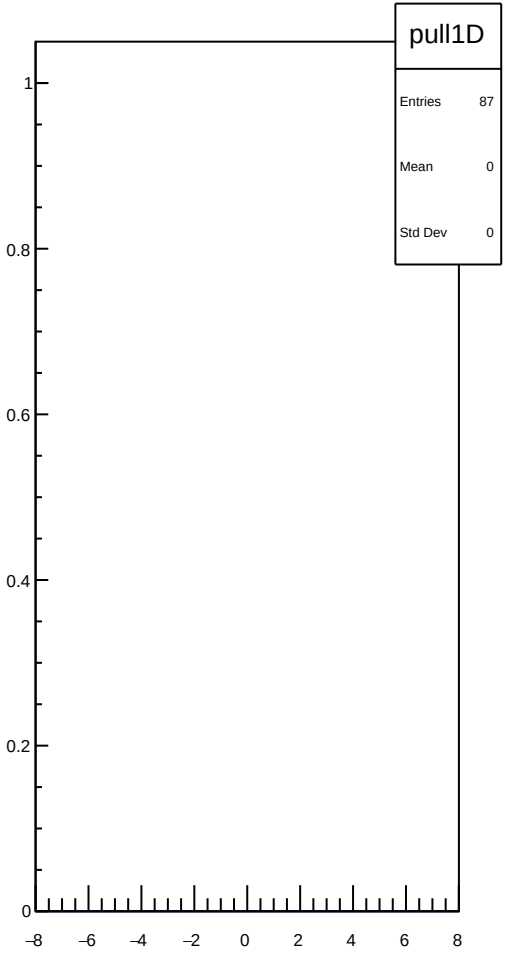

dit_4aX_coil3_mean vs run
χ² / ndf 8.058e+31 / 86
p0 −73.07 ± 1.072e−16
−71
−71.5
−72
−72.5
−73
−73.5
−74
pull
Entries 87
Mean 3.644e+09
Std Dev 3.644e+09
×10¹²
2000
1500
1000
500
0
−500
−1000

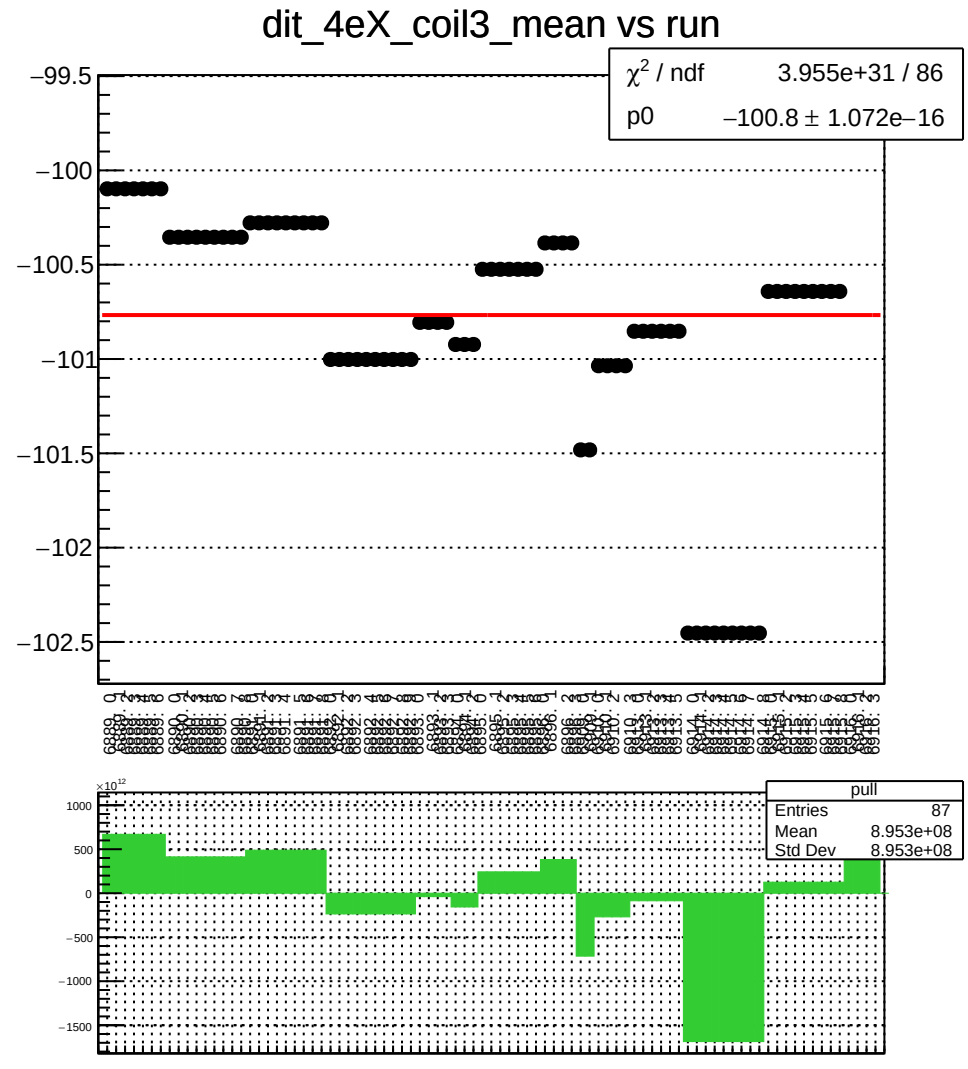

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

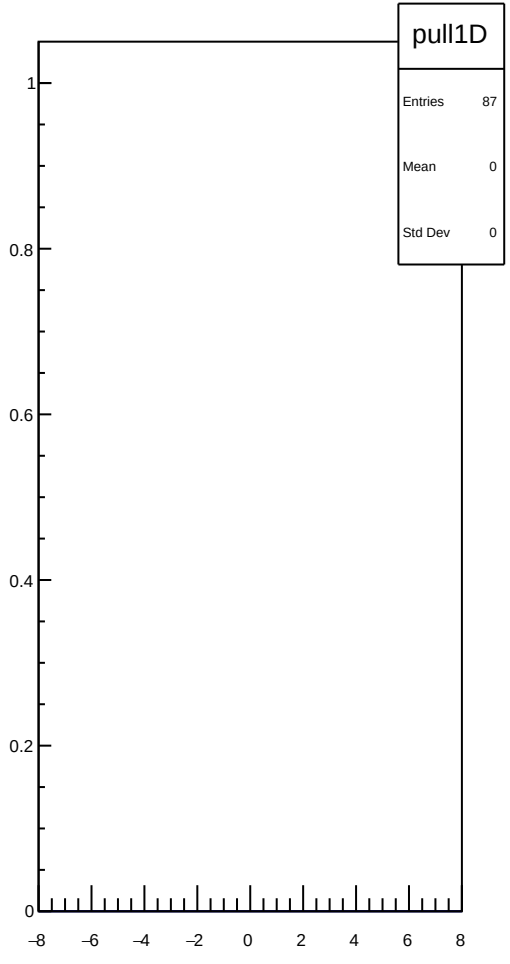

dit_4aX_coil3_err_mean vs run
χ² / ndf 2.556e+31 / 86
p0 1.839 ± 1.072e−16
3.5
3
2.5
2
1.5
×10¹²
1500
1000
500
0
−500
pull
Entries 87
Mean −1.125e+09
Std Dev 1.125e+09

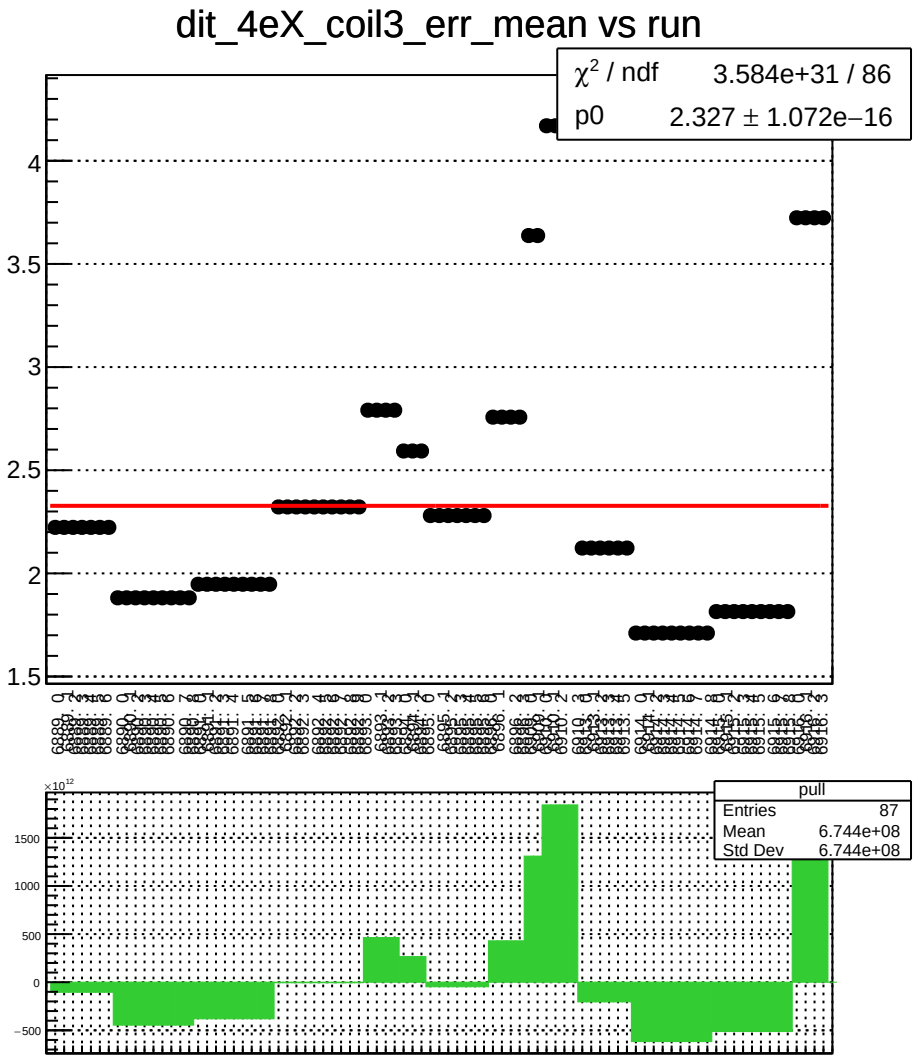

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

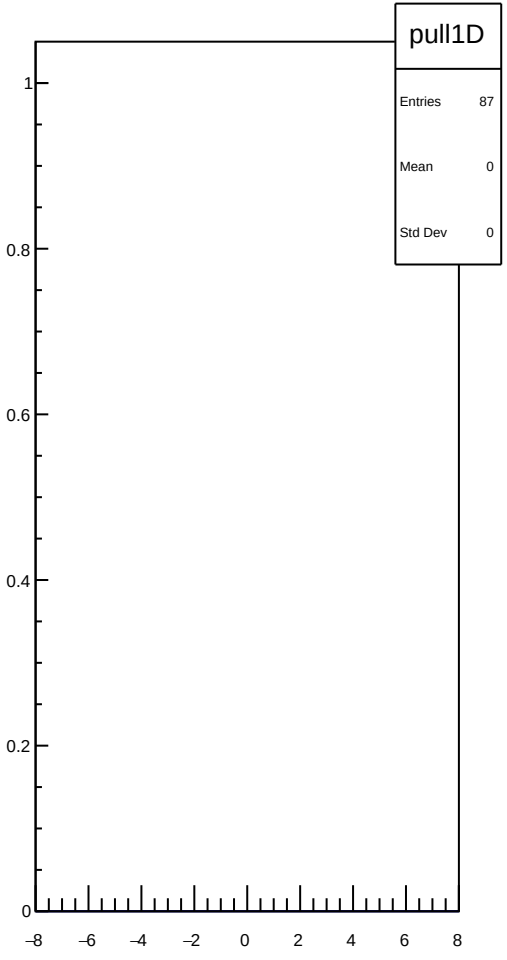

dit_4aX_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800

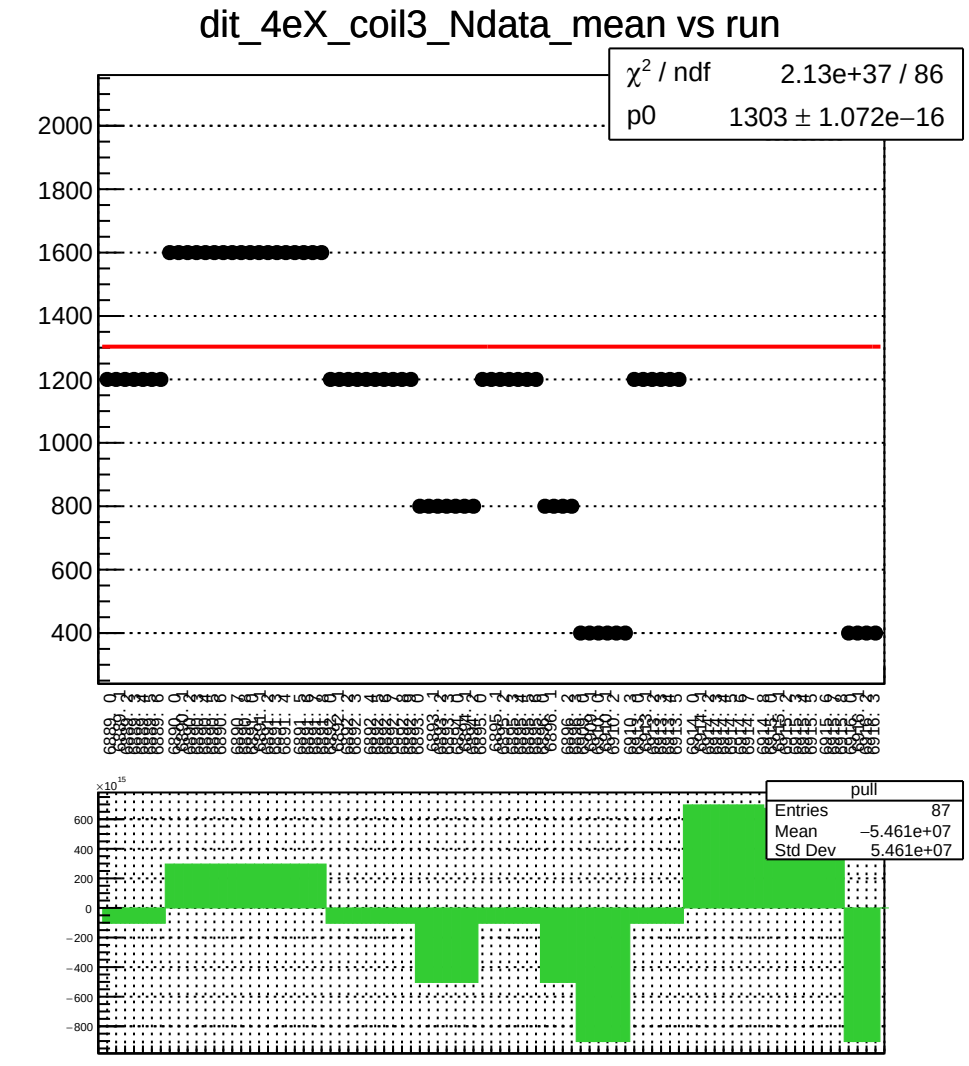

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

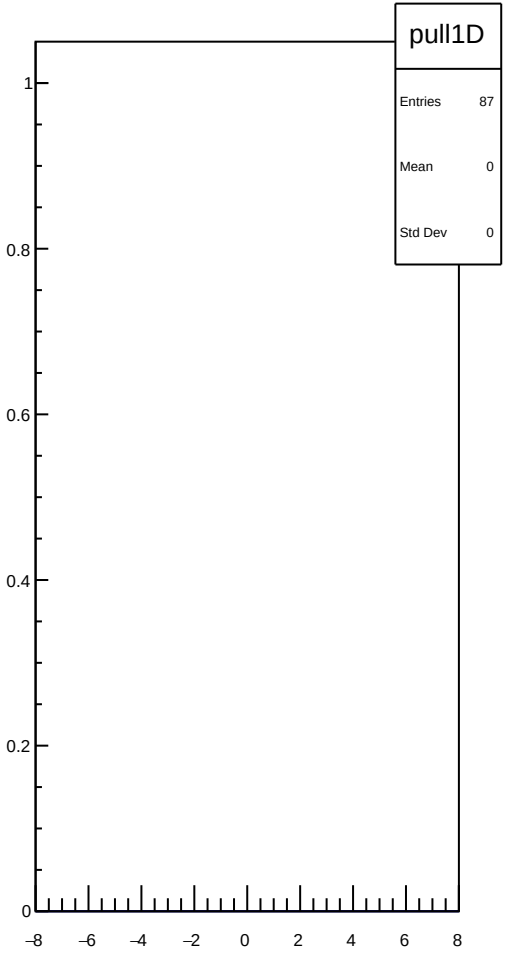

dit_4eX_coil3_mean vs run
χ² / ndf 3.955e+31 / 86
p0 −100.8 ± 1.072e−16
−99.5
−100
−100.5
−101
−101.5
−102
−102.5
pull
Entries 87
Mean 8.953e+08
Std Dev 8.953e+08
×10¹²
1000
500
0
−500
−1000
−1500

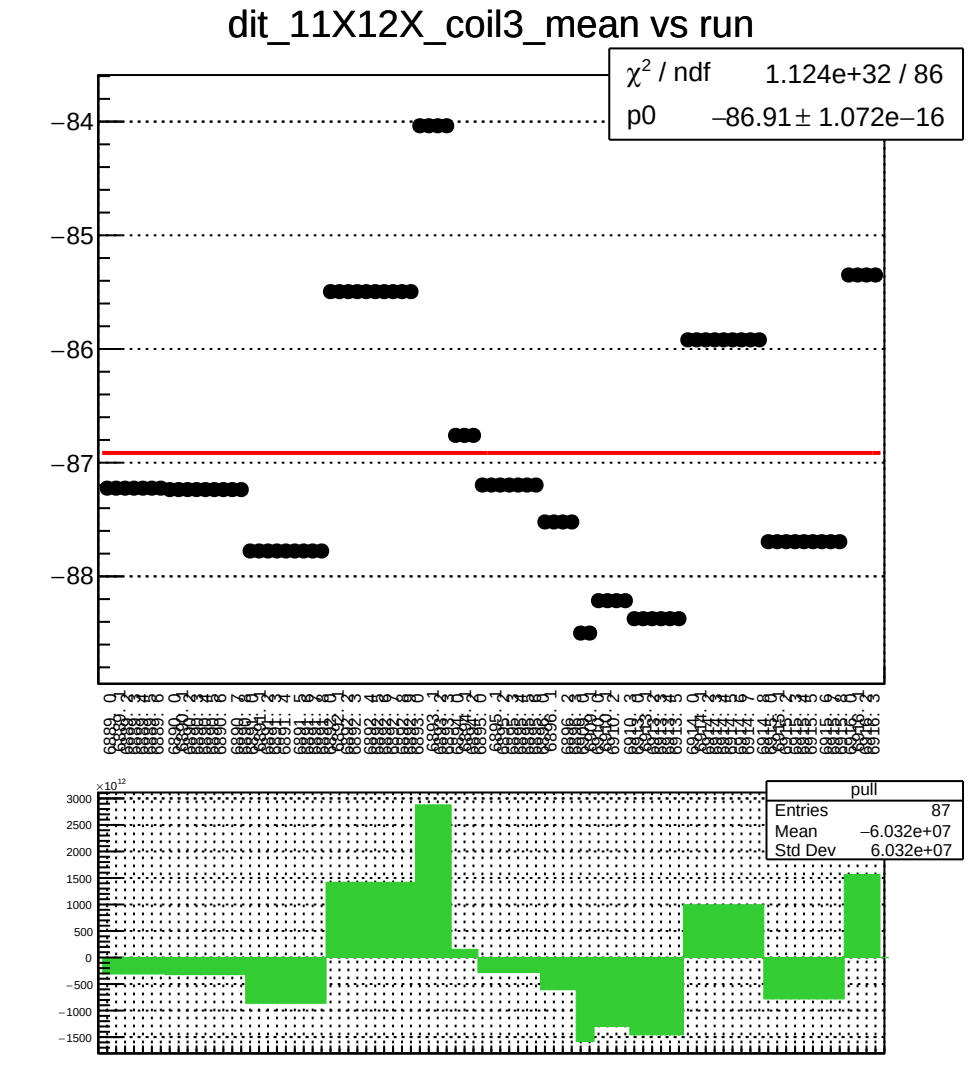

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

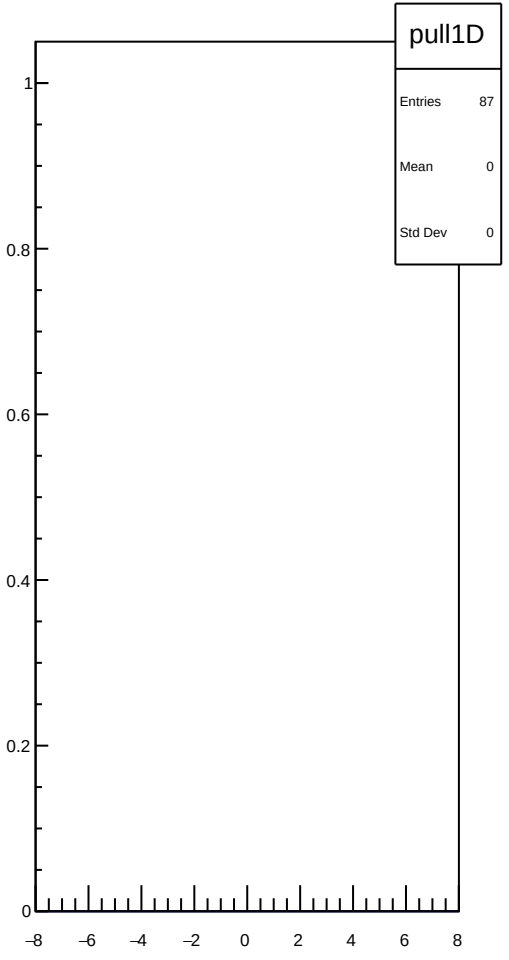

dit_4eX_coil3_err_mean vs run
χ² / ndf 3.584e+31 / 86
p0 2.327 ± 1.072e−16
4
3.5
3
2.5
2
1.5
pull
Entries 87
Mean 6.744e+08
Std Dev 6.744e+08
×10¹²
1500
1000
500
0
−500

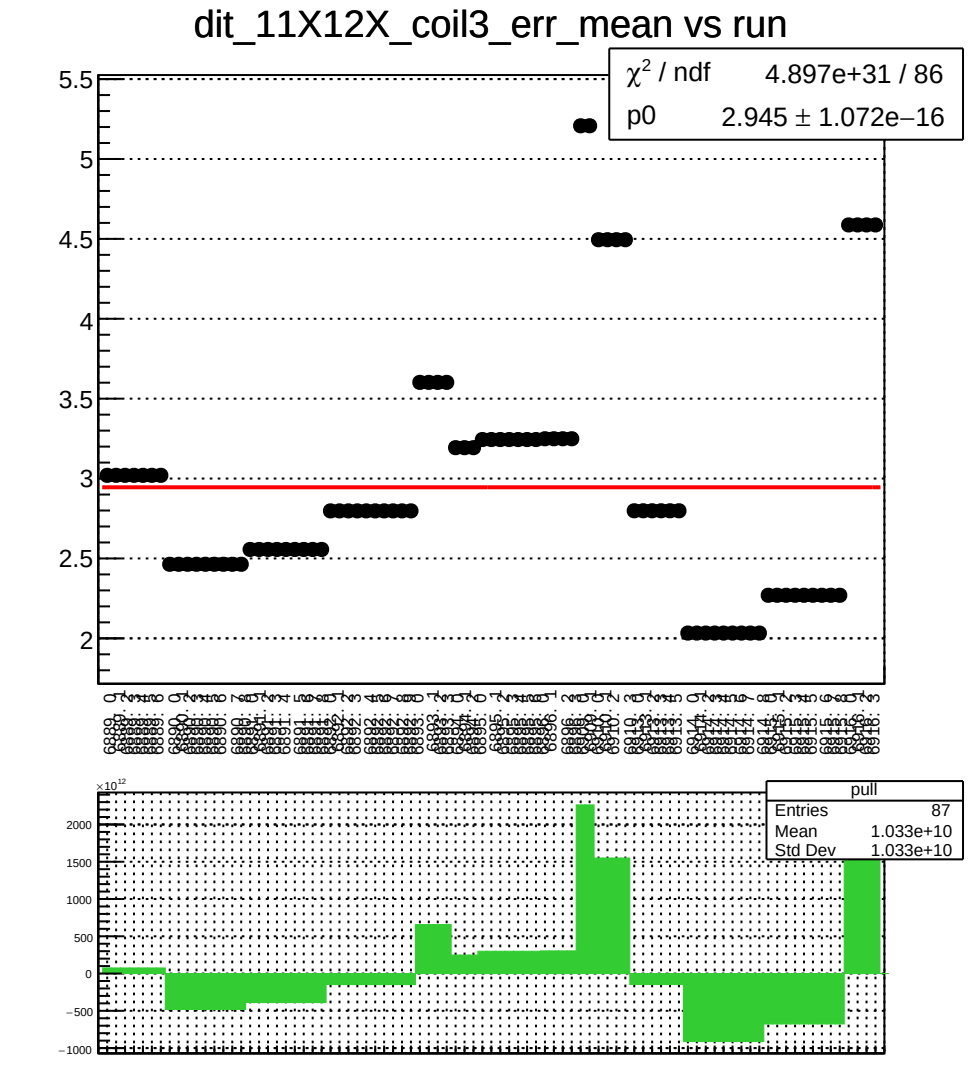

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

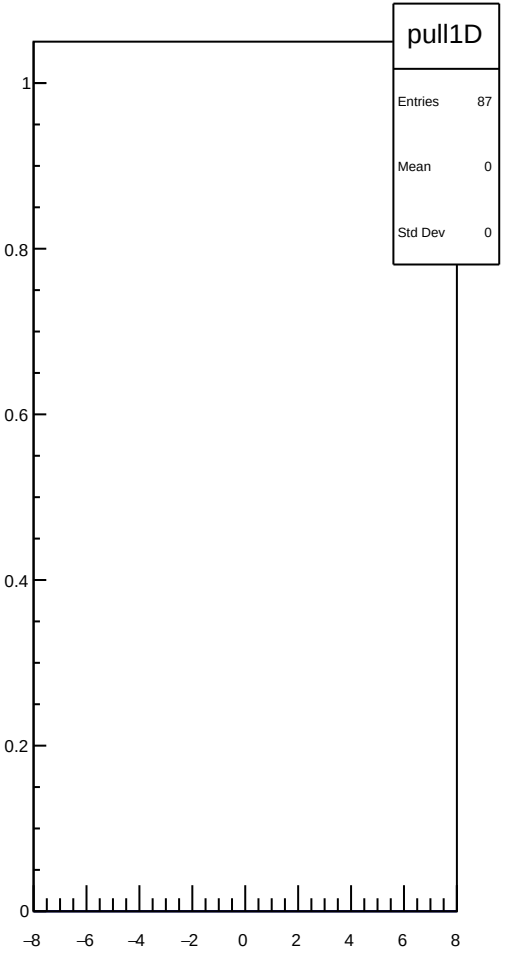

dit_4eX_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800

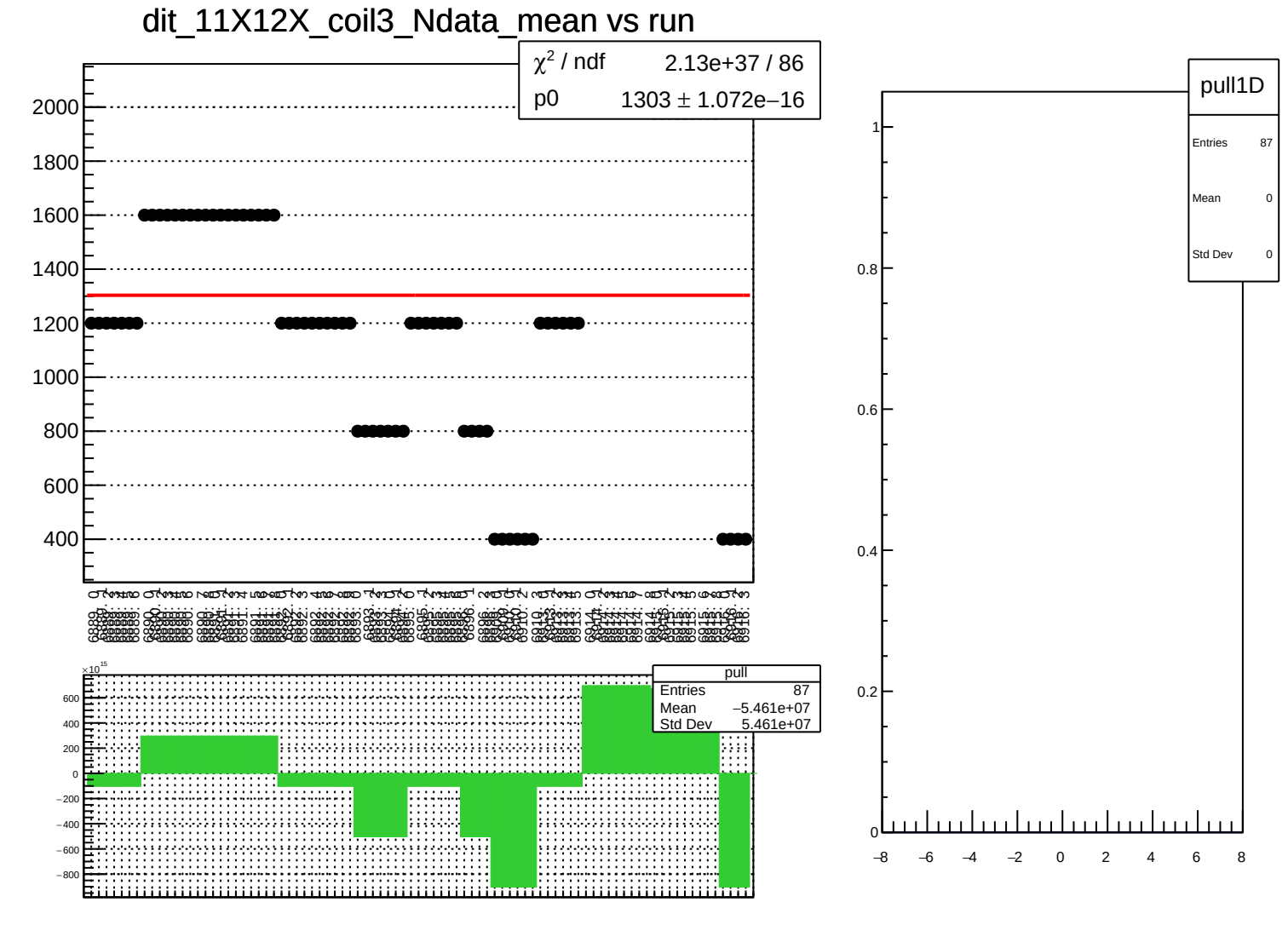

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

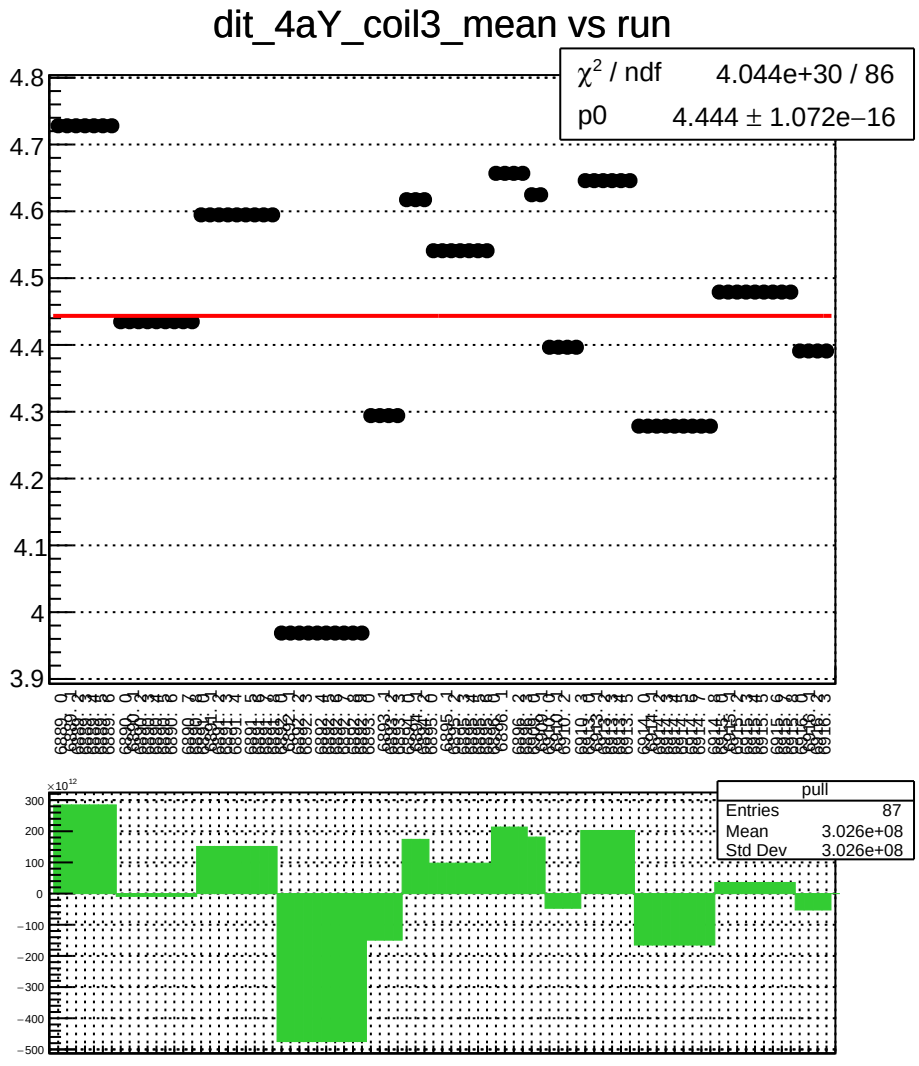

dit_11X12X_coil3_mean vs run
χ² / ndf 1.124e+32 / 86
p0 −86.91 ± 1.072e−16
−84
−85
−86
−87
−88
pull
Entries 87
Mean −6.032e+07
Std Dev 6.032e+07
×10¹²
3000
2500
2000
1500
1000
500
0
−500
−1000
−1500

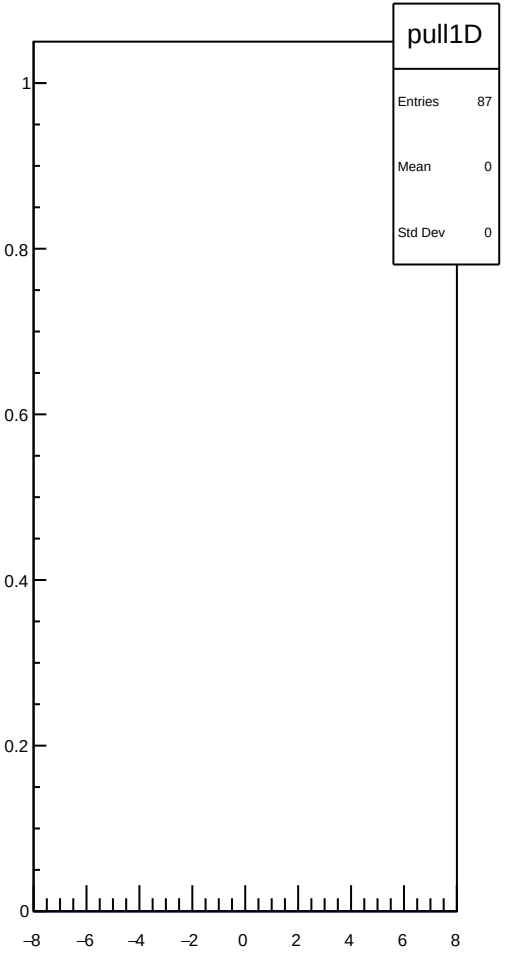

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

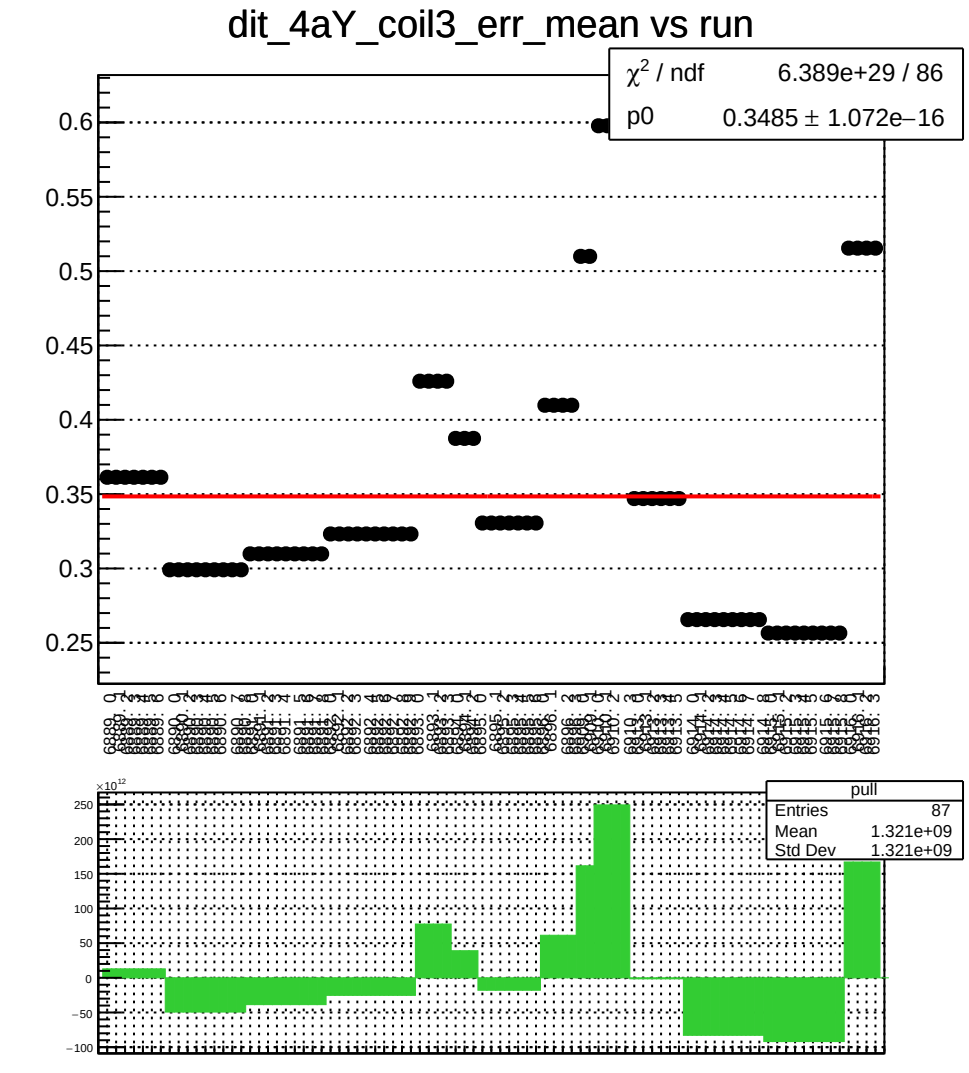

dit_11X12X_coil3_err_mean vs run
χ² / ndf 4.897e+31 / 86
p0 2.945 ± 1.072e−16
pull
Entries 87
Mean 1.033e+10
Std Dev 1.033e+10

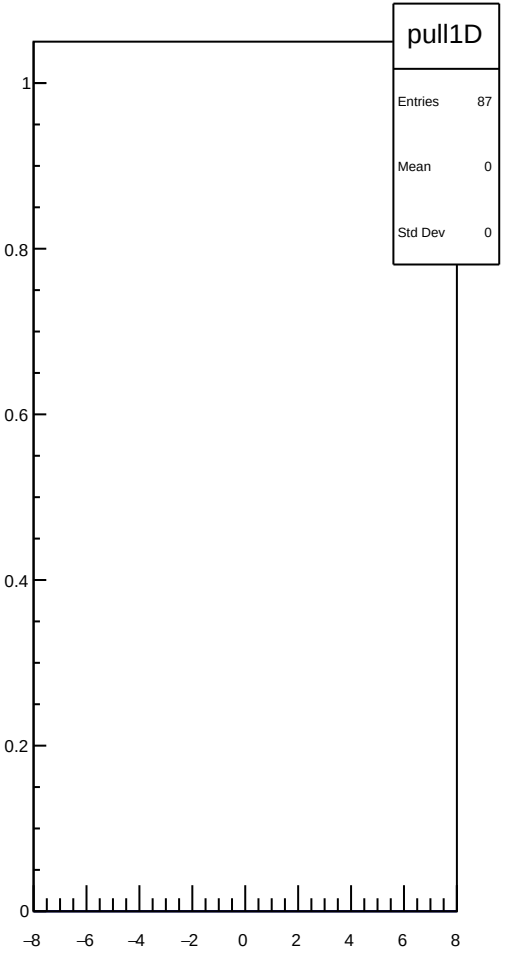

pull1D
Entries 87
Mean 0
Std Dev 0

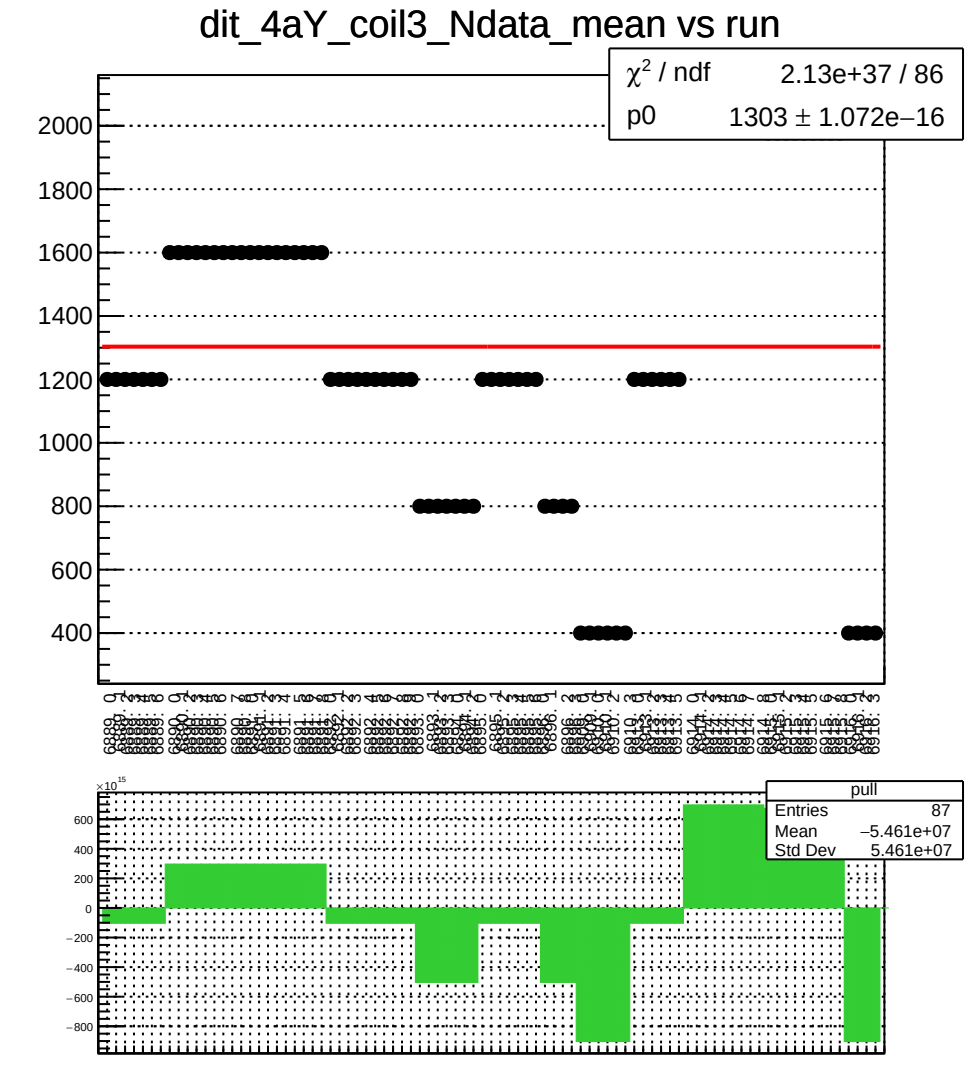

dit_11X12X_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

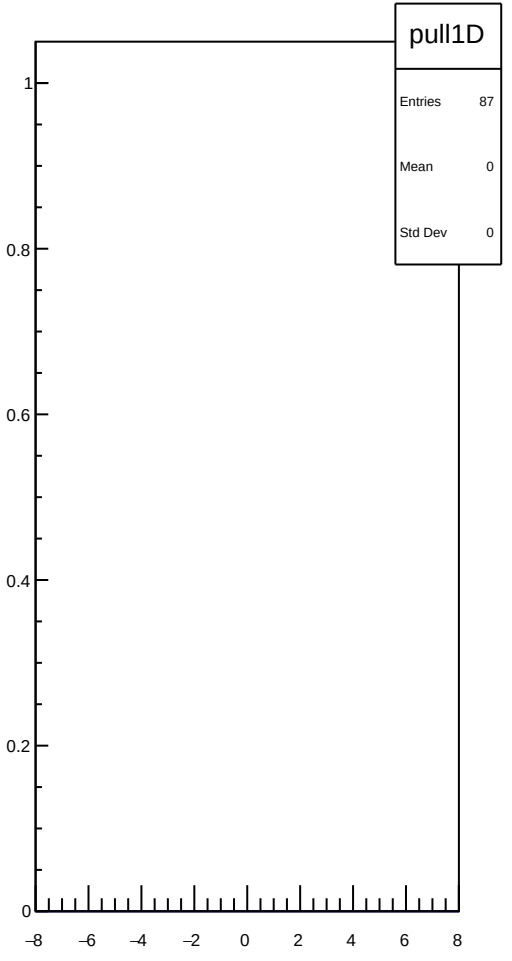

dit_4aY_coil3_mean vs run
χ² / ndf 4.044e+30 / 86
p0 4.444 ± 1.072e−16
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4
3.9
pull
Entries 87
Mean 3.026e+08
Std Dev 3.026e+08
×10¹²
300
200
100
0
−100
−200
−300
−400
−500

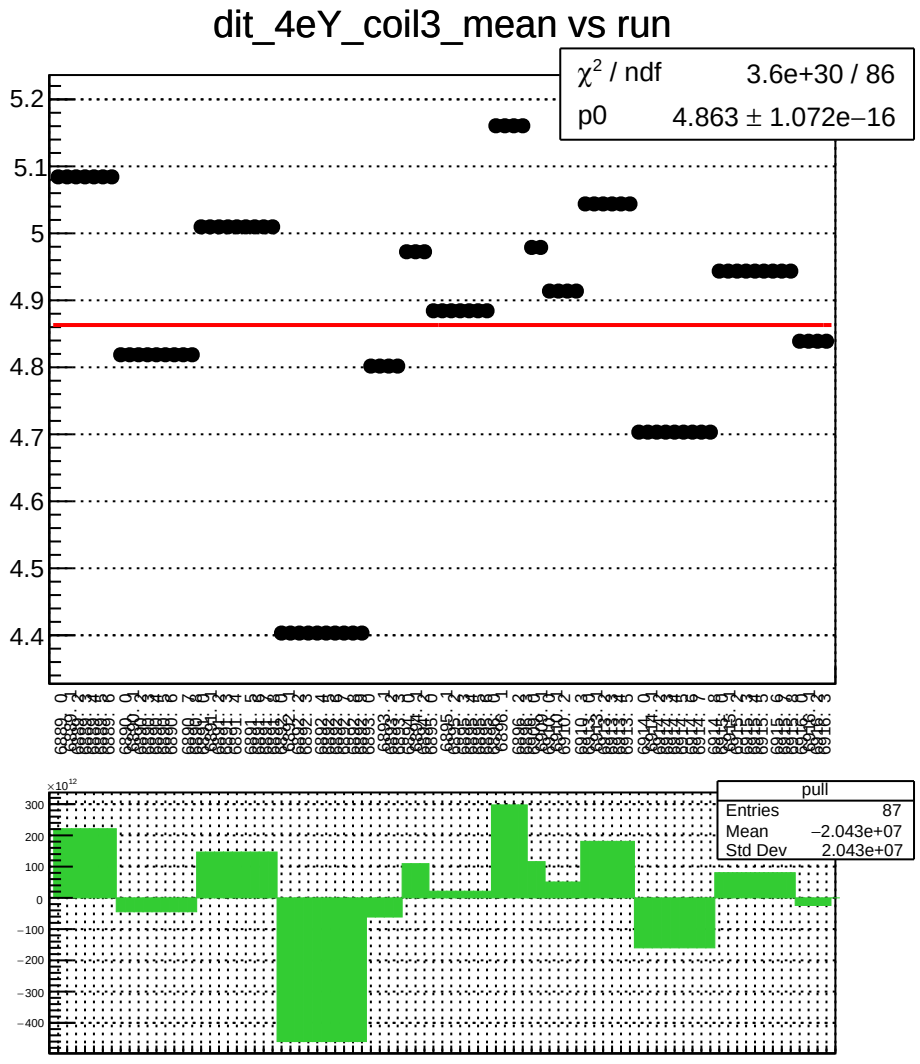

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

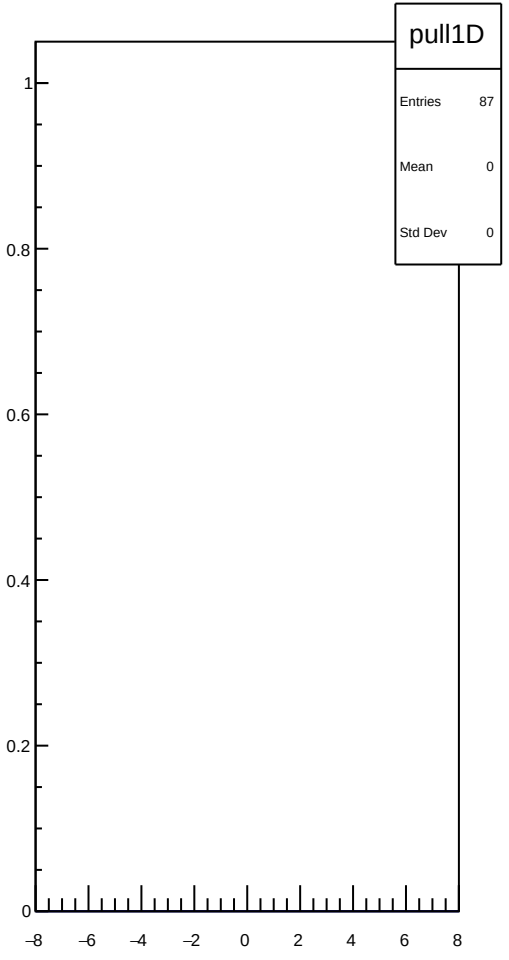

dit_4aY_coil3_err_mean vs run
χ² / ndf 6.389e+29 / 86
p0 0.3485 ± 1.072e−16
pull
Entries 87
Mean 1.321e+09
Std Dev 1.321e+09

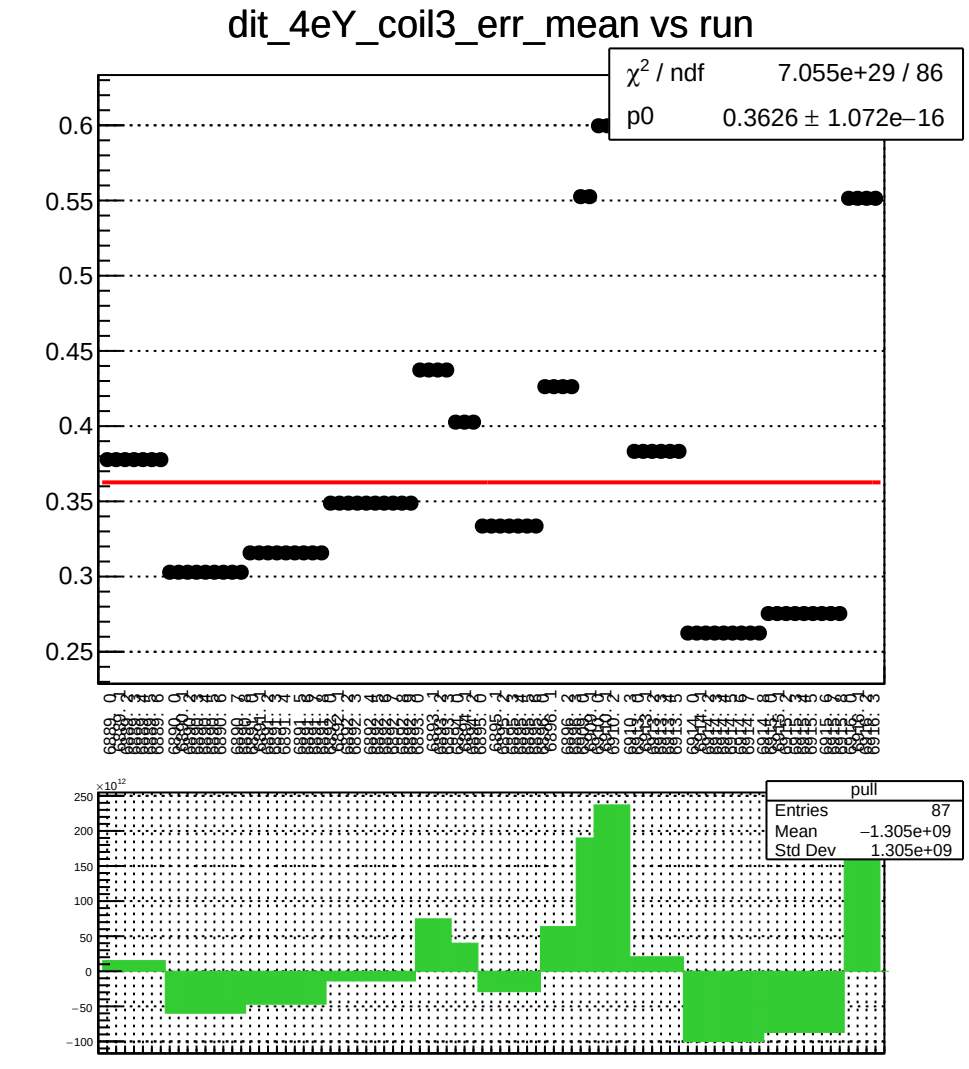

pull1D
Entries 87
Mean 0
Std Dev 0

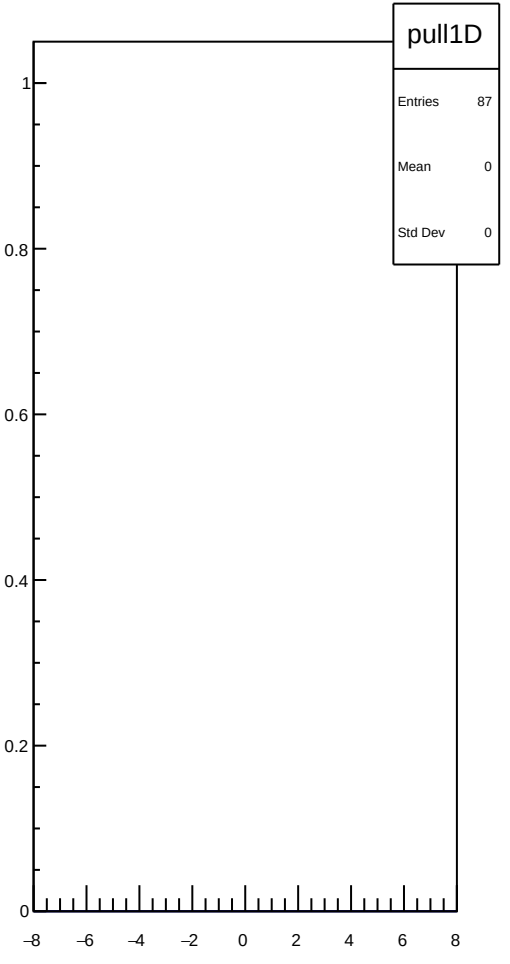

dit_4aY_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800

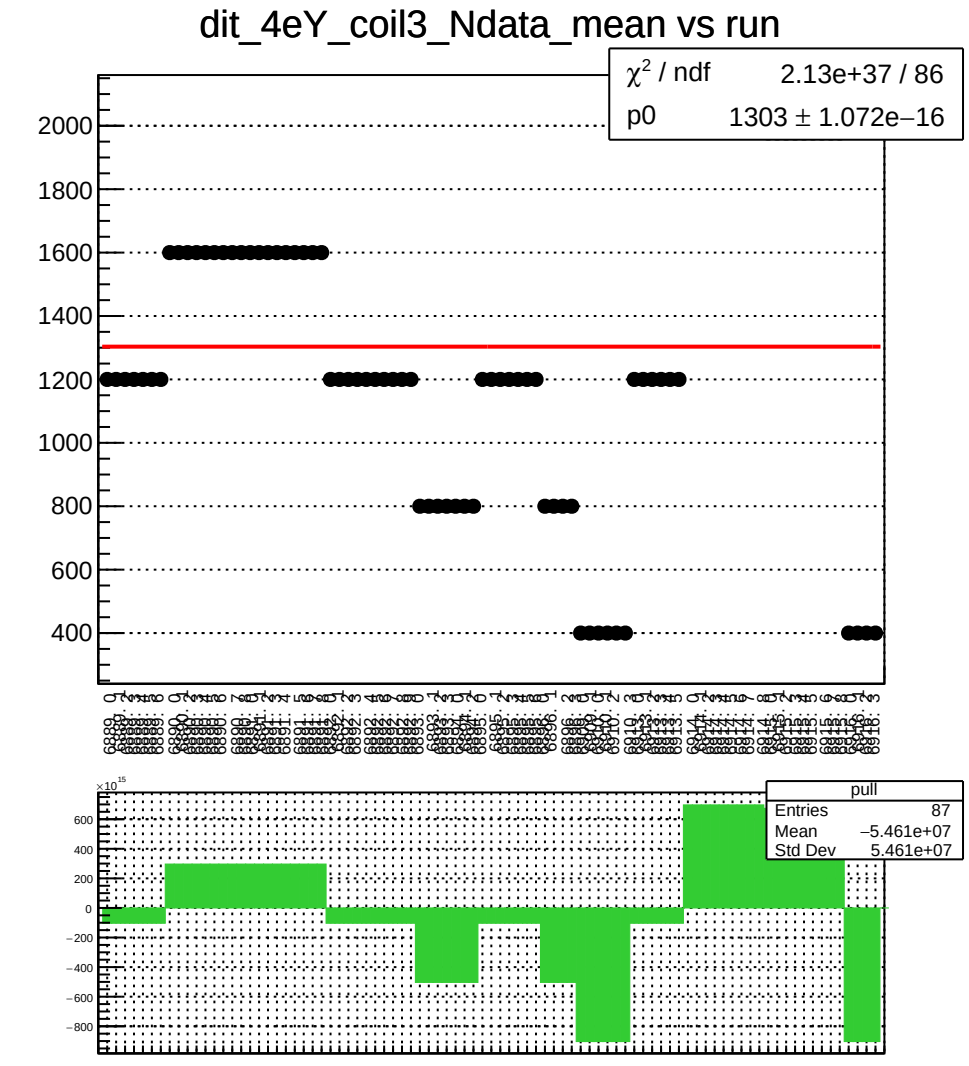

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

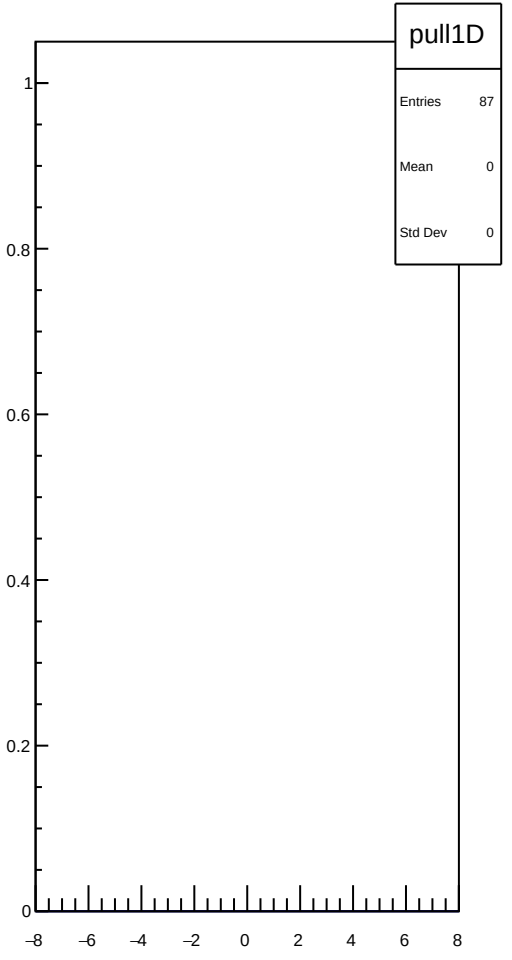

dit_4eY_coil3_mean vs run
χ² / ndf 3.6e+30 / 86
p0 4.863 ± 1.072e−16
5.2
5.1
5
4.9
4.8
4.7
4.6
4.5
4.4
×10¹²
300
200
100
0
−100
−200
−300
−400
pull
Entries 87
Mean −2.043e+07
Std Dev 2.043e+07

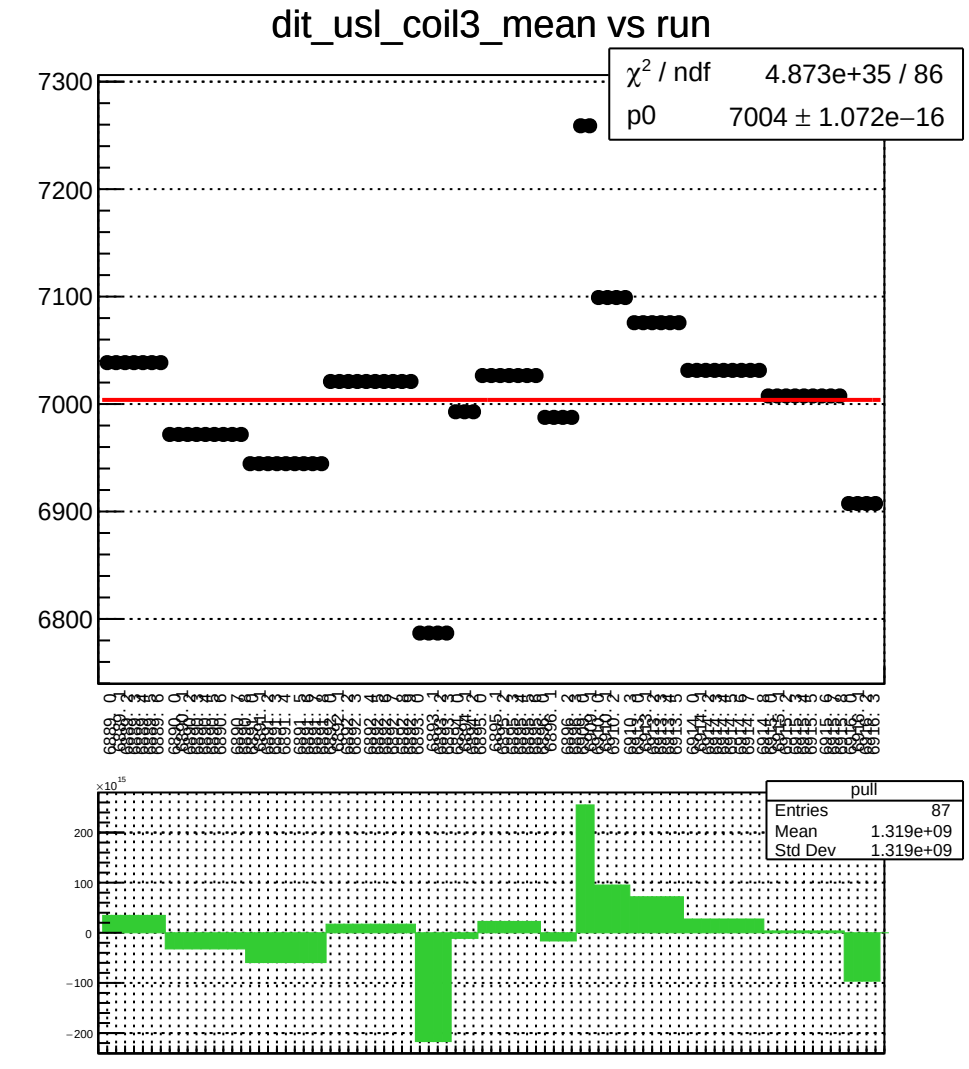

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

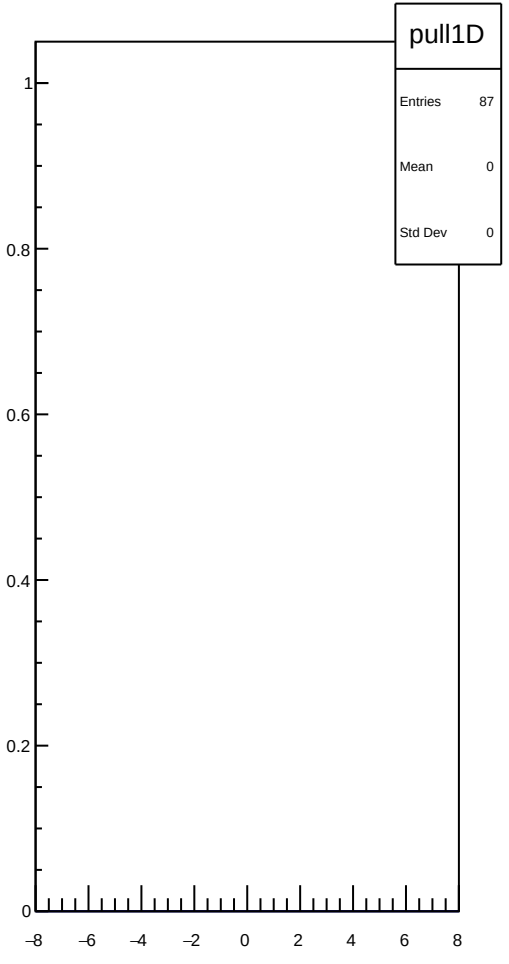

dit_4eY_coil3_err_mean vs run
χ² / ndf 7.055e+29 / 86
p0 0.3626 ± 1.072e−16
pull
Entries 87
Mean −1.305e+09
Std Dev 1.305e+09

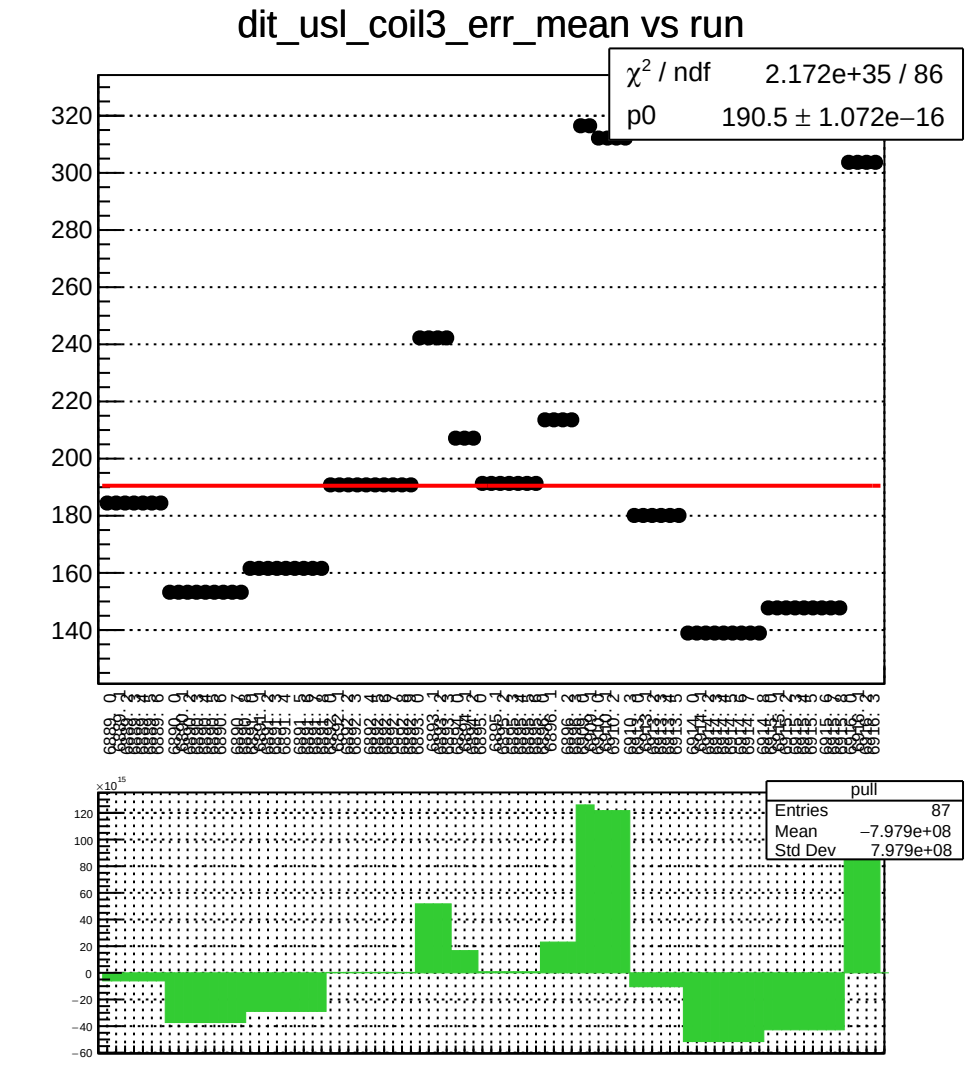

pull1D
Entries 87
Mean 0
Std Dev 0

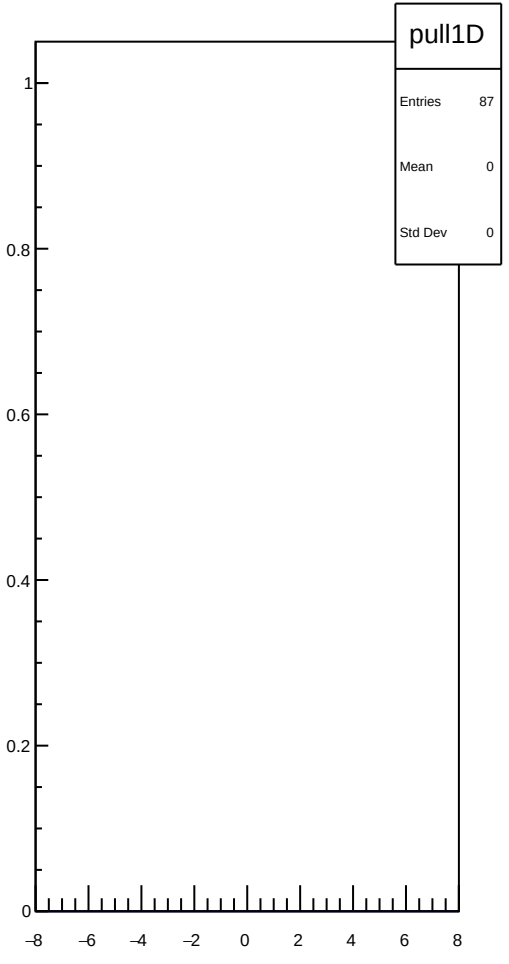

dit_4eY_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800

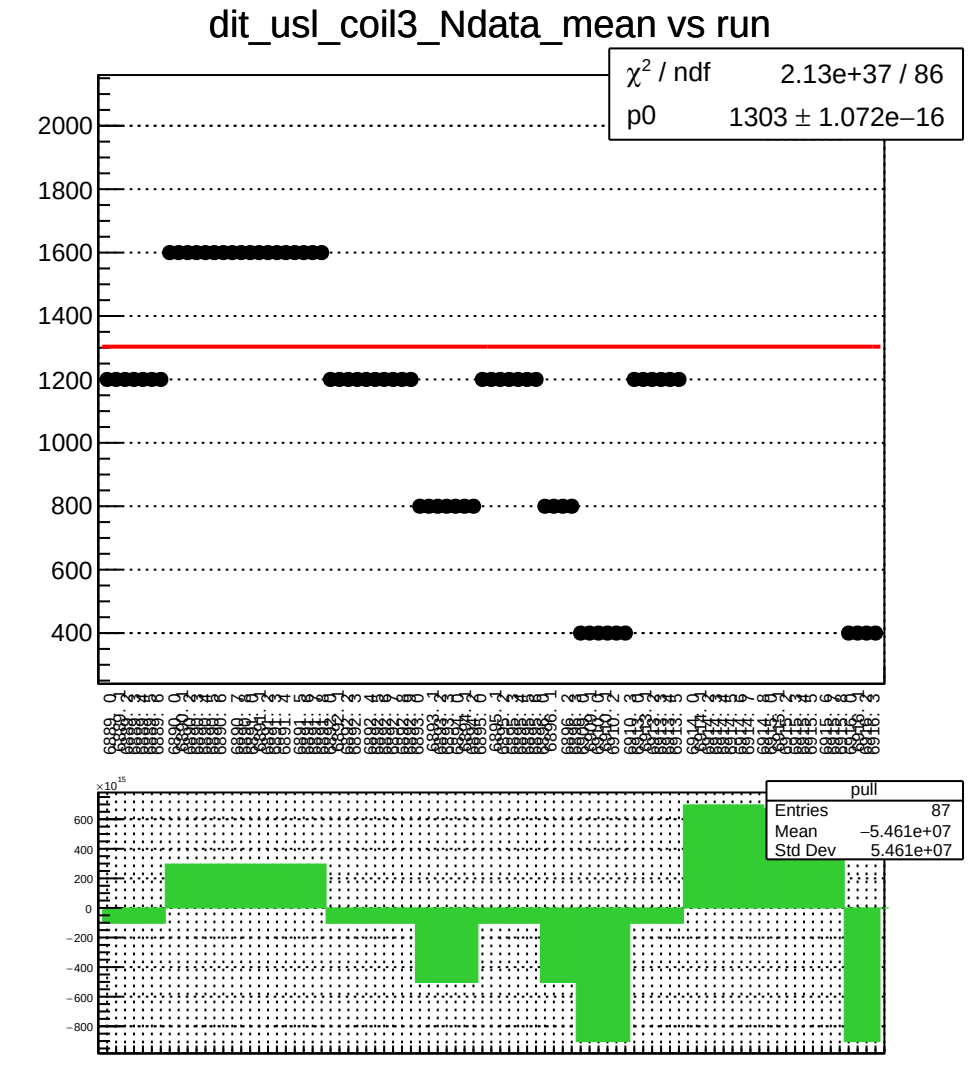

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

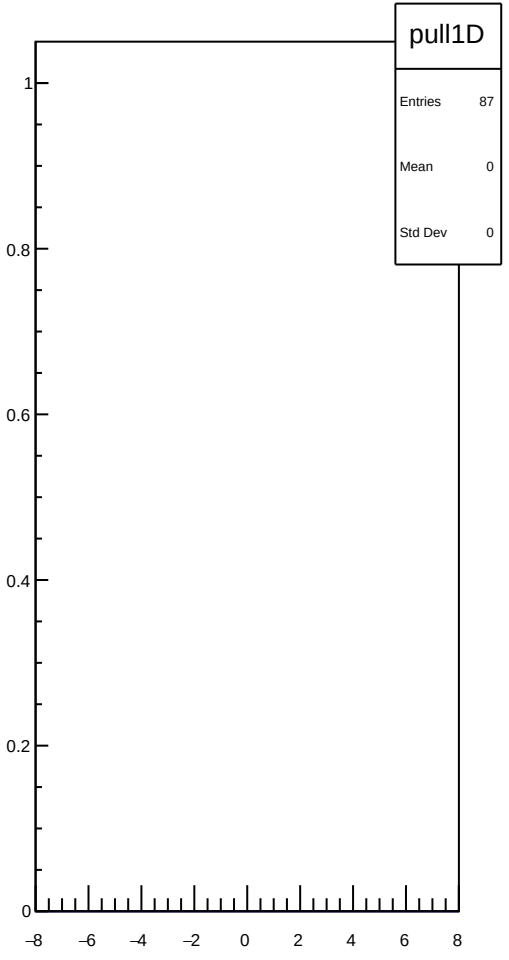

dit_usl_coil3_mean vs run
χ² / ndf 4.873e+35 / 86
p0 7004 ± 1.072e−16
7300
7200
7100
7000
6900
6800
pull
Entries 87
Mean 1.319e+09
Std Dev 1.319e+09
×10¹⁵
200
100
0
−100
−200

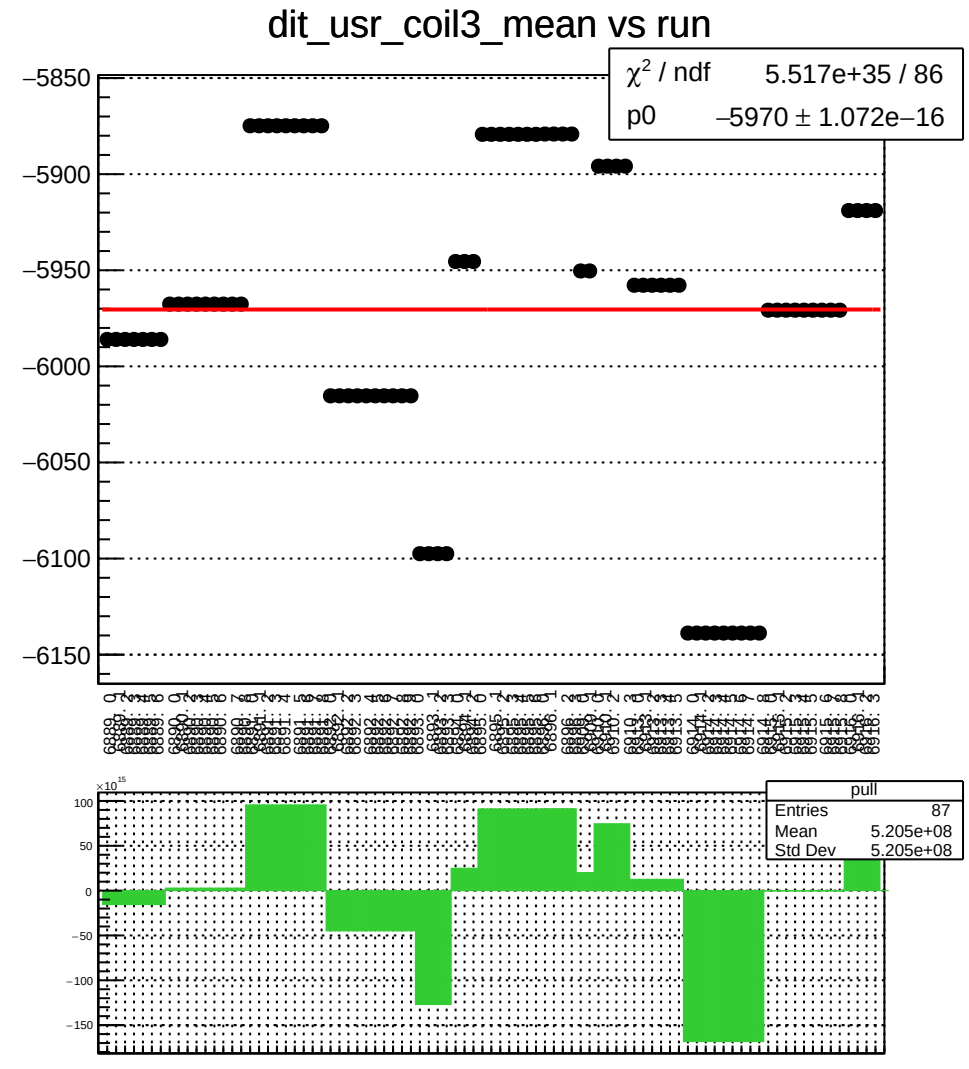

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

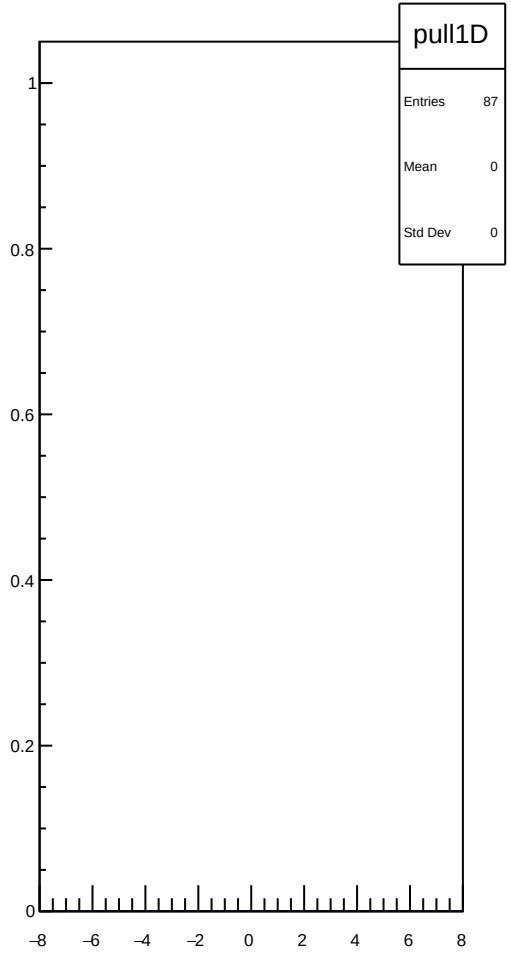

dit_usl_coil3_err_mean vs run
χ² / ndf 2.172e+35 / 86
p0 190.5 ± 1.072e−16
320
300
280
260
240
220
200
180
160
140
pull
Entries 87
Mean −7.979e+08
Std Dev 7.979e+08
×10¹⁵
120
100
80
60
40
20
0
−20
−40
−60

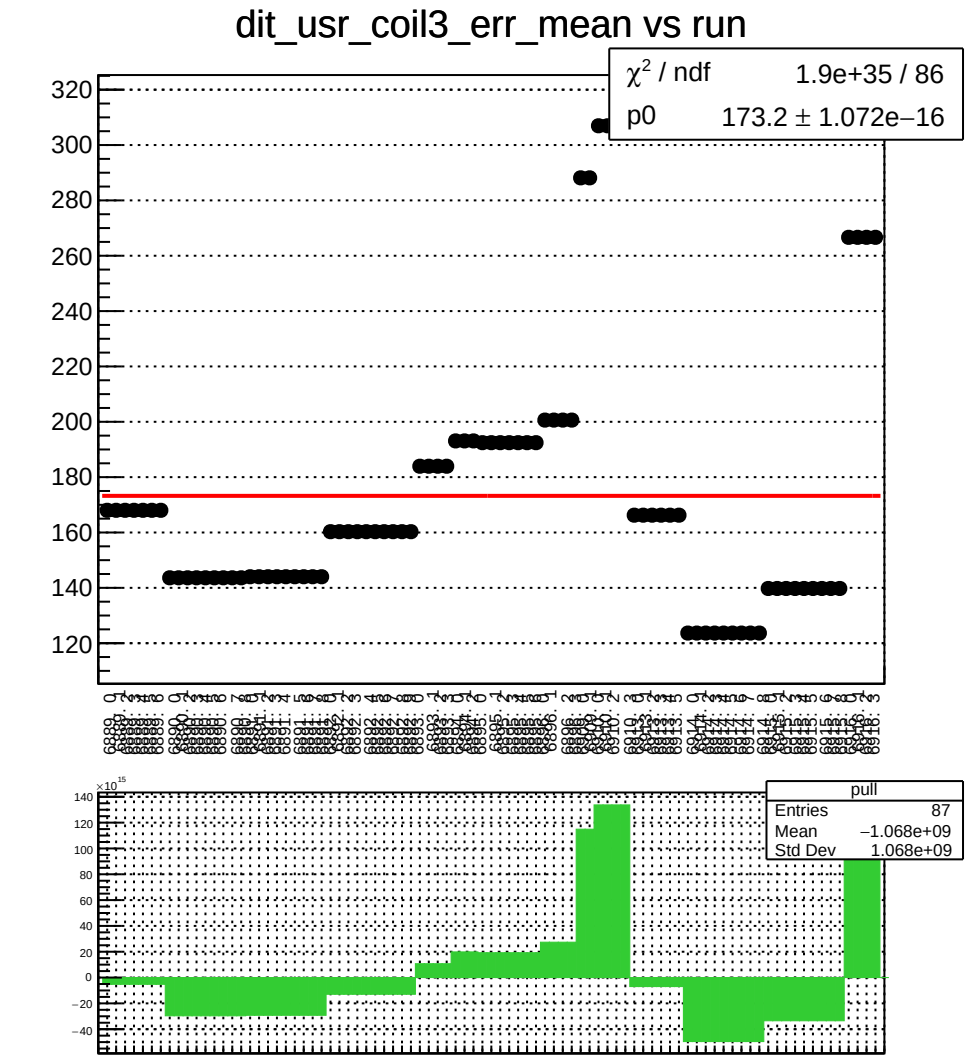

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

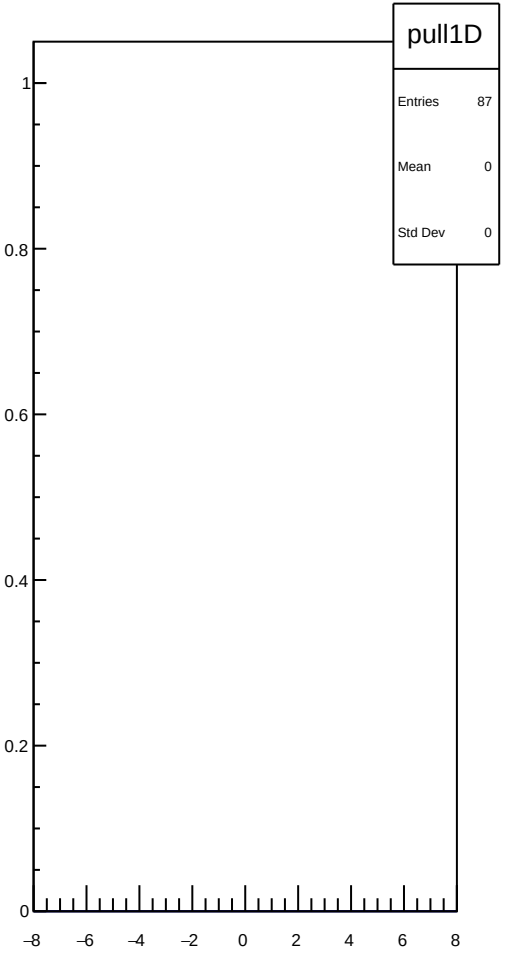

dit_usl_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800

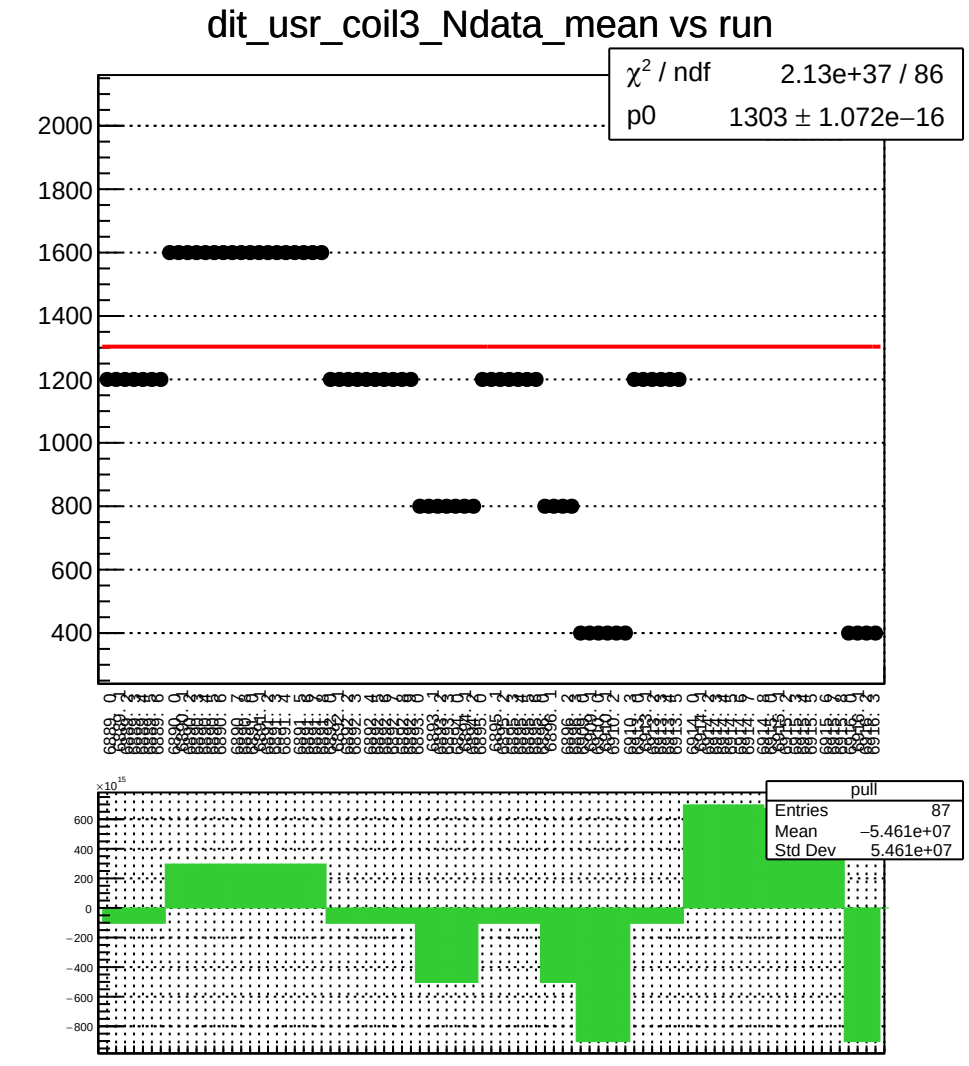

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

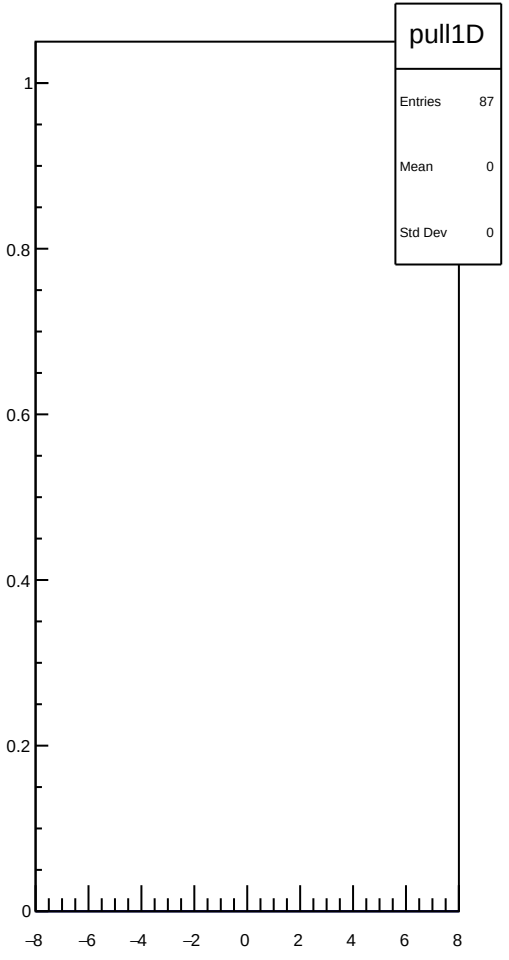

dit_usr_coil3_mean vs run
χ² / ndf 5.517e+35 / 86
p0 −5970 ± 1.072e−16
−5850
−5900
−5950
−6000
−6050
−6100
−6150
pull
Entries 87
Mean 5.205e+08
Std Dev 5.205e+08
×10¹⁵
100
50
0
−50
−100
−150

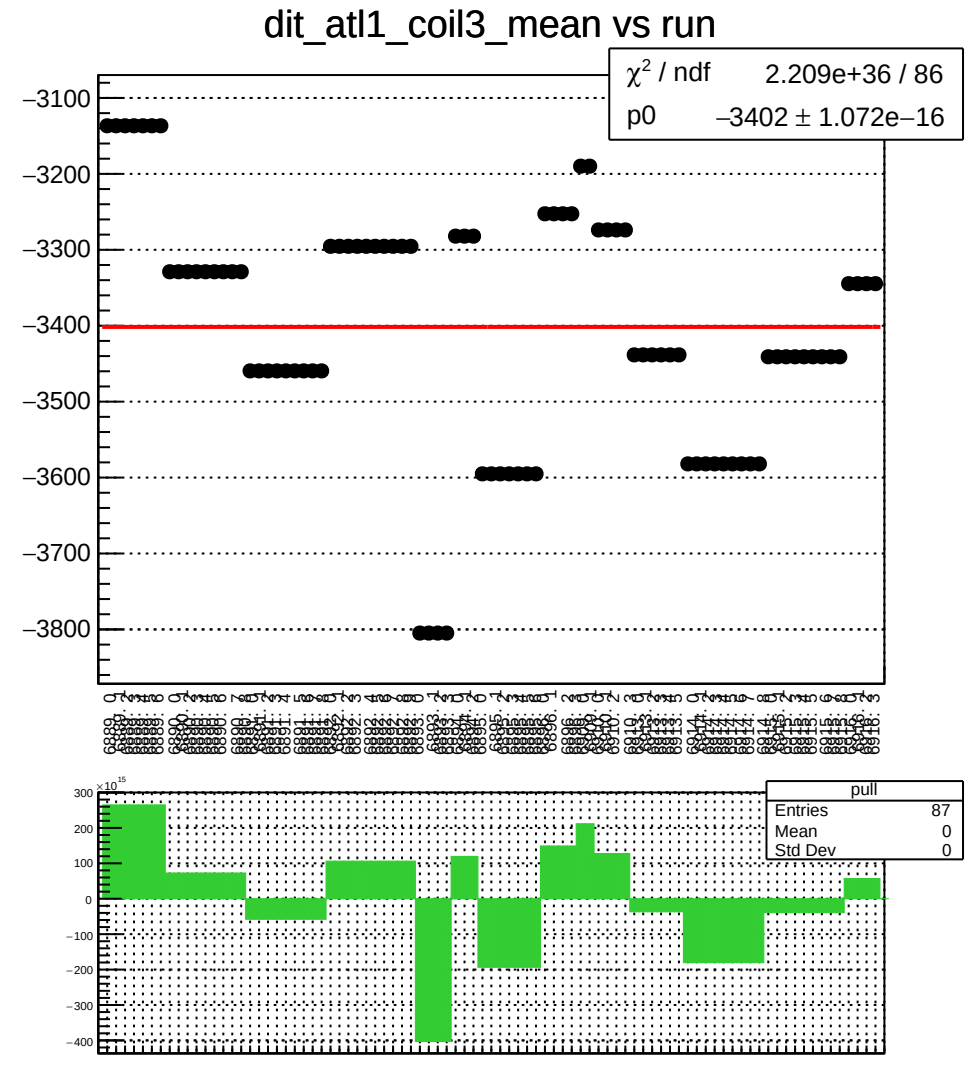

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

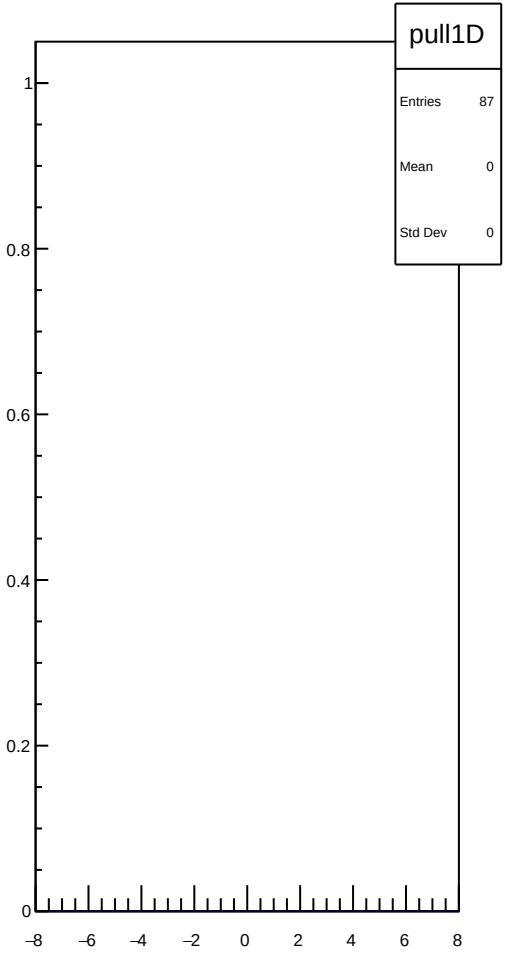

dit_usr_coil3_err_mean vs run
χ² / ndf 1.9e+35 / 86
p0 173.2 ± 1.072e−16
320
300
280
260
240
220
200
180
160
140
120
pull
Entries 87
Mean −1.068e+09
Std Dev 1.068e+09
×10¹⁵
140
120
100
80
60
40
20
0
−20
−40

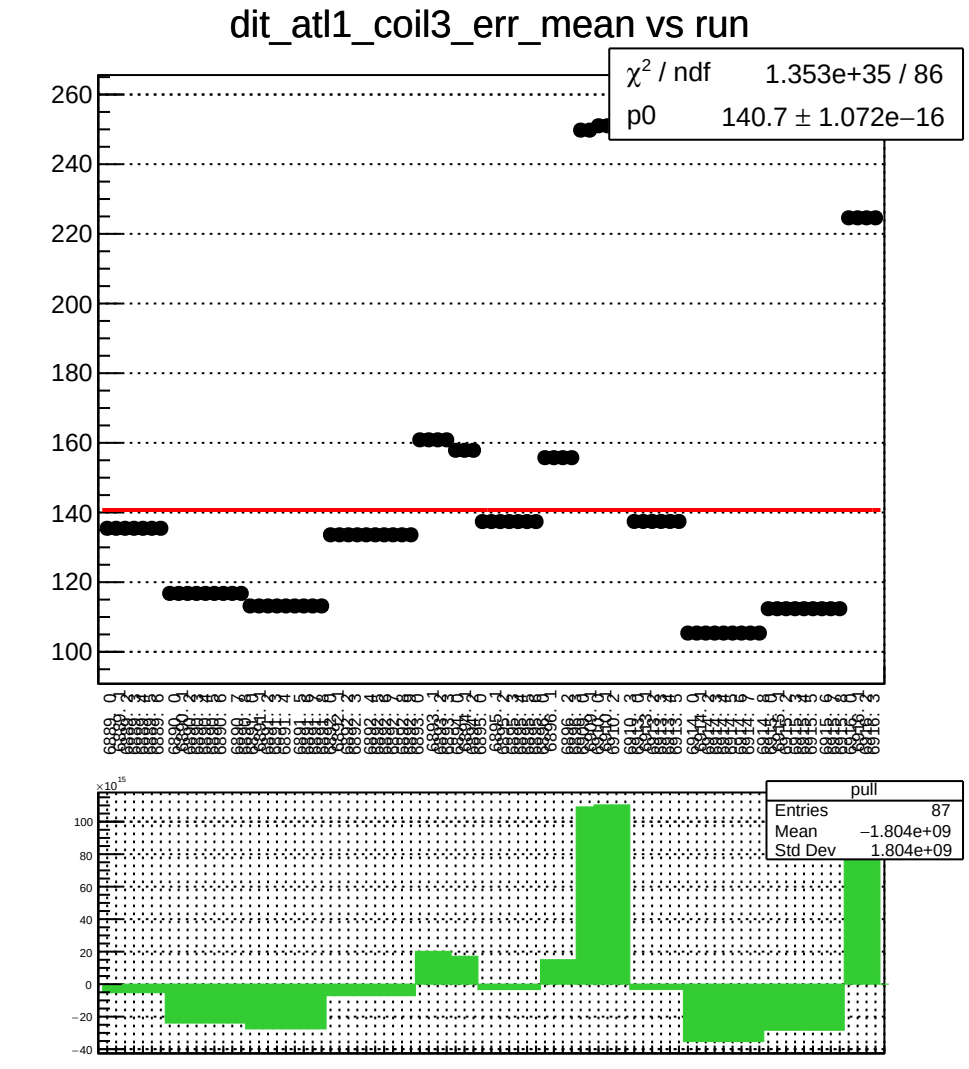

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

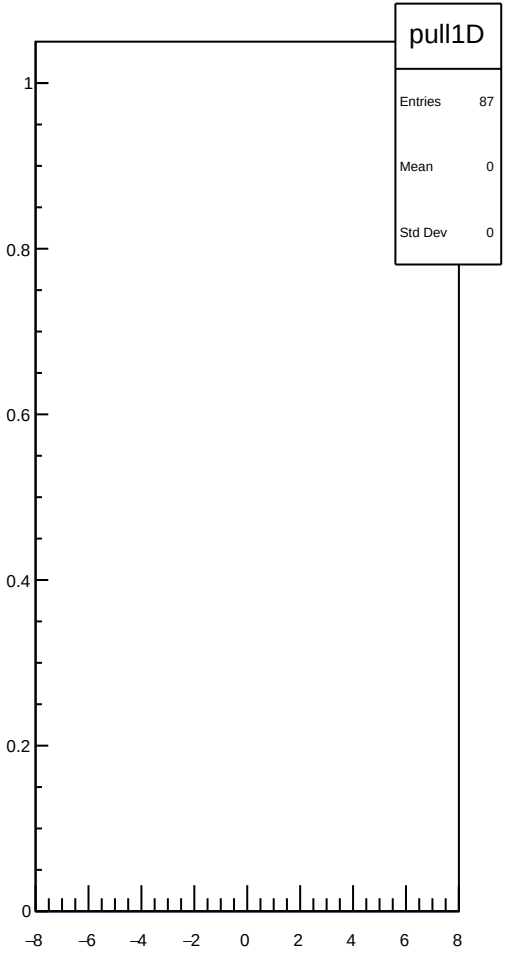

dit_usr_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800

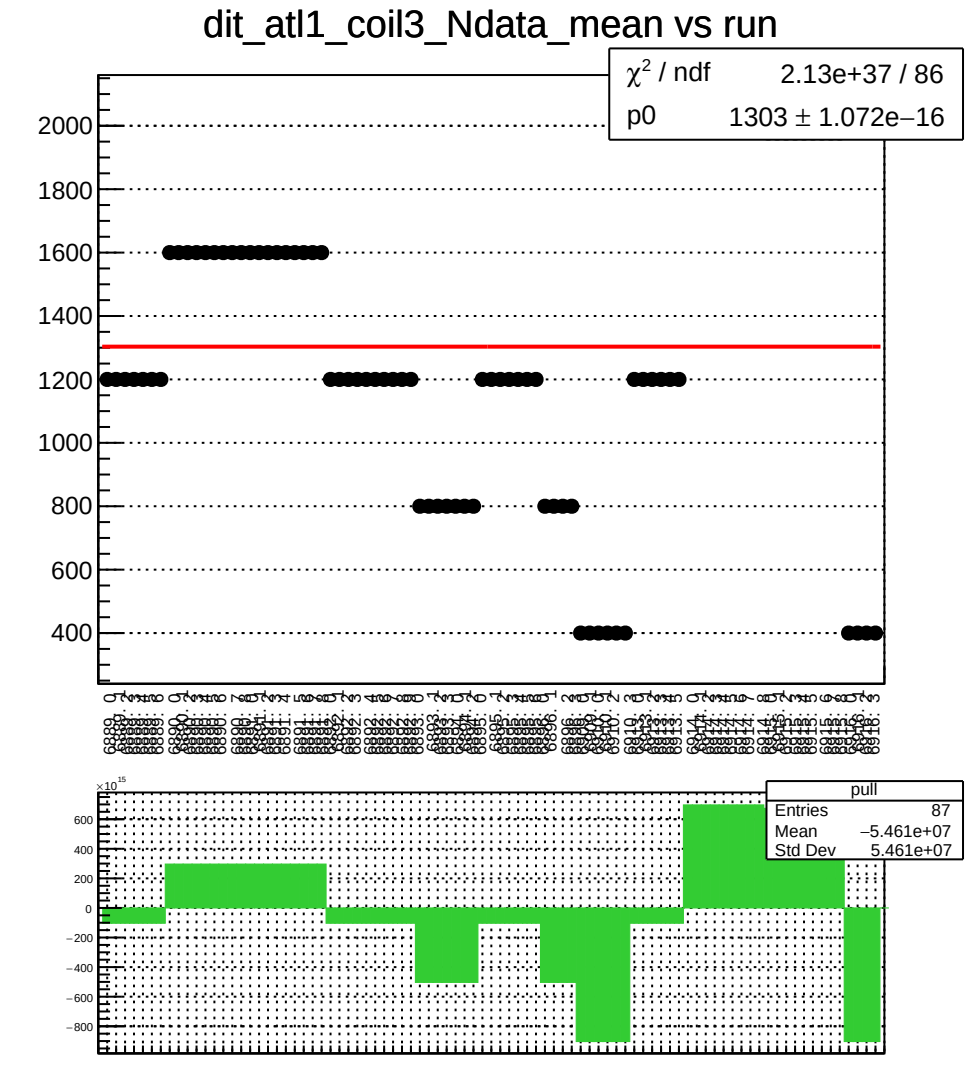

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

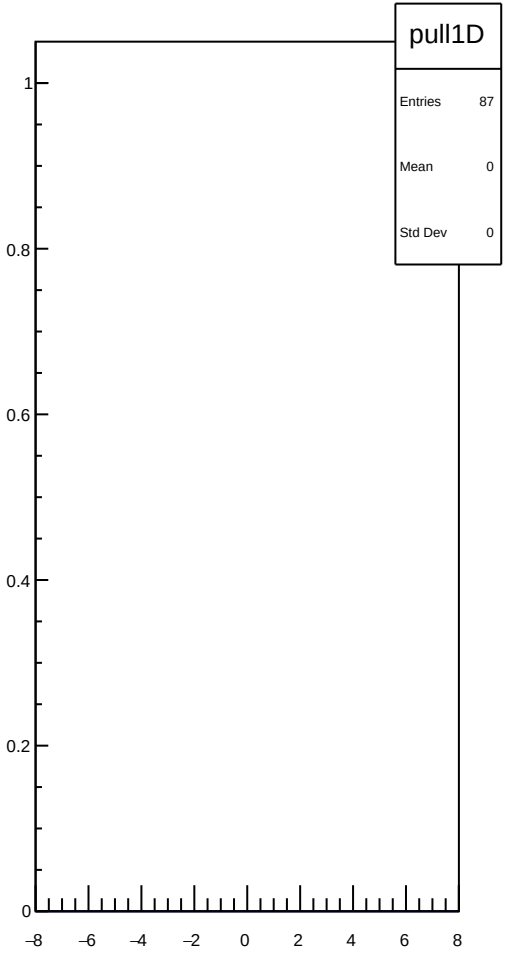

dit_atl1_coil3_mean vs run
χ² / ndf 2.209e+36 / 86
p0 −3402 ± 1.072e−16
−3100
−3200
−3300
−3400
−3500
−3600
−3700
−3800
pull
Entries 87
Mean 0
Std Dev 0
300
200
100
0
−100
−200
−300
−400

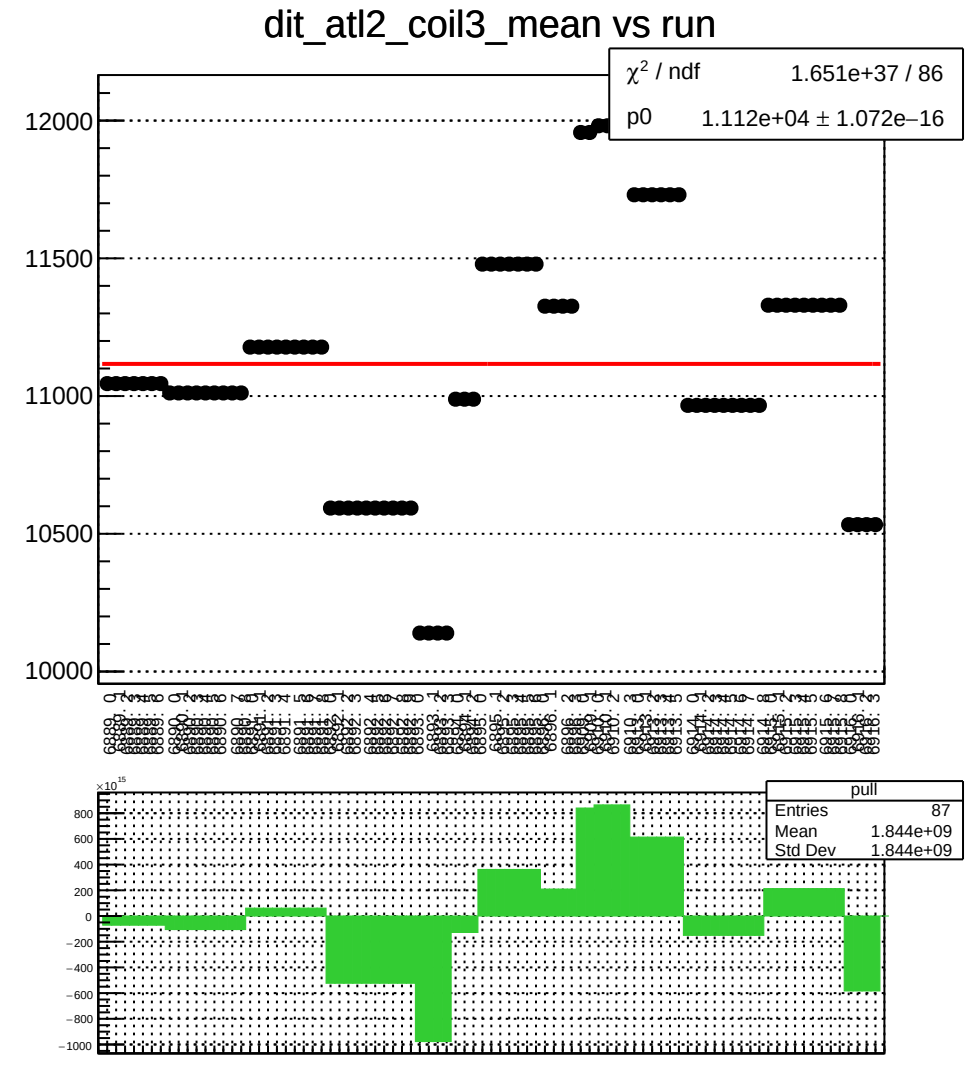

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

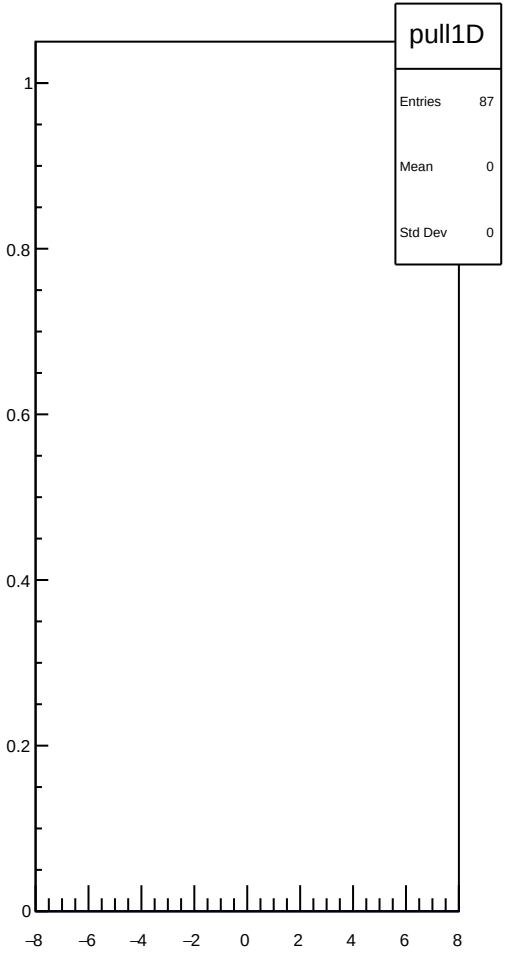

dit_atl1_coil3_err_mean vs run
χ² / ndf 1.353e+35 / 86
p0 140.7 ± 1.072e−16
260
240
220
200
180
160
140
120
100
×10¹⁵
100
80
60
40
20
0
−20
−40
pull
Entries 87
Mean −1.804e+09
Std Dev 1.804e+09

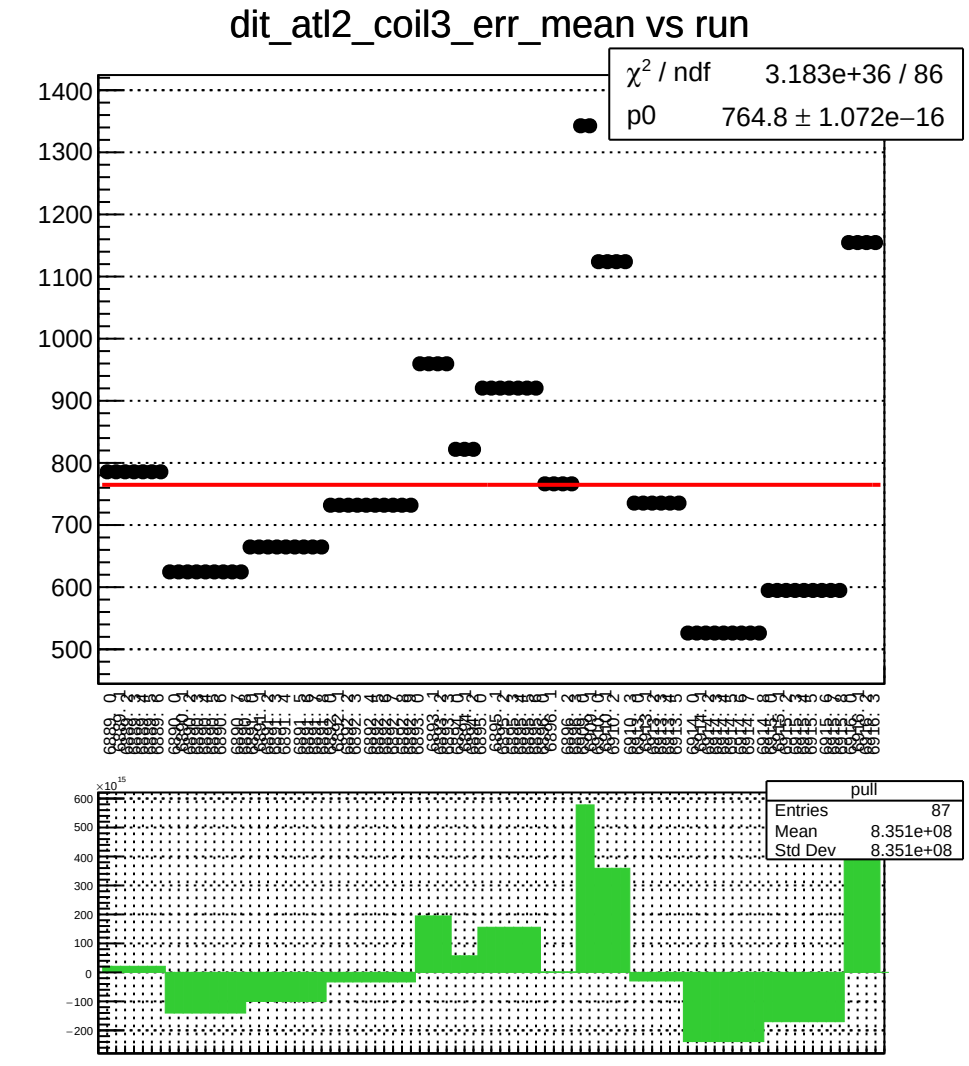

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

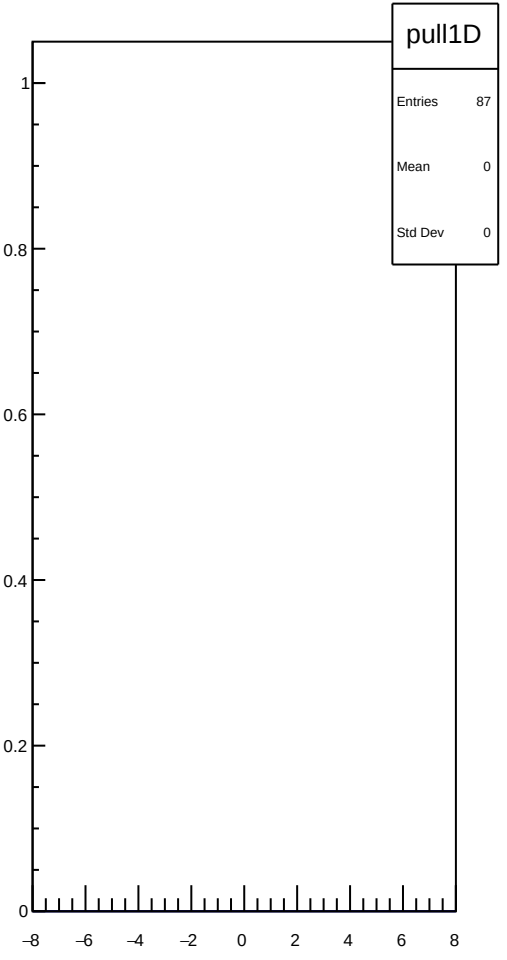

dit_atl1_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800

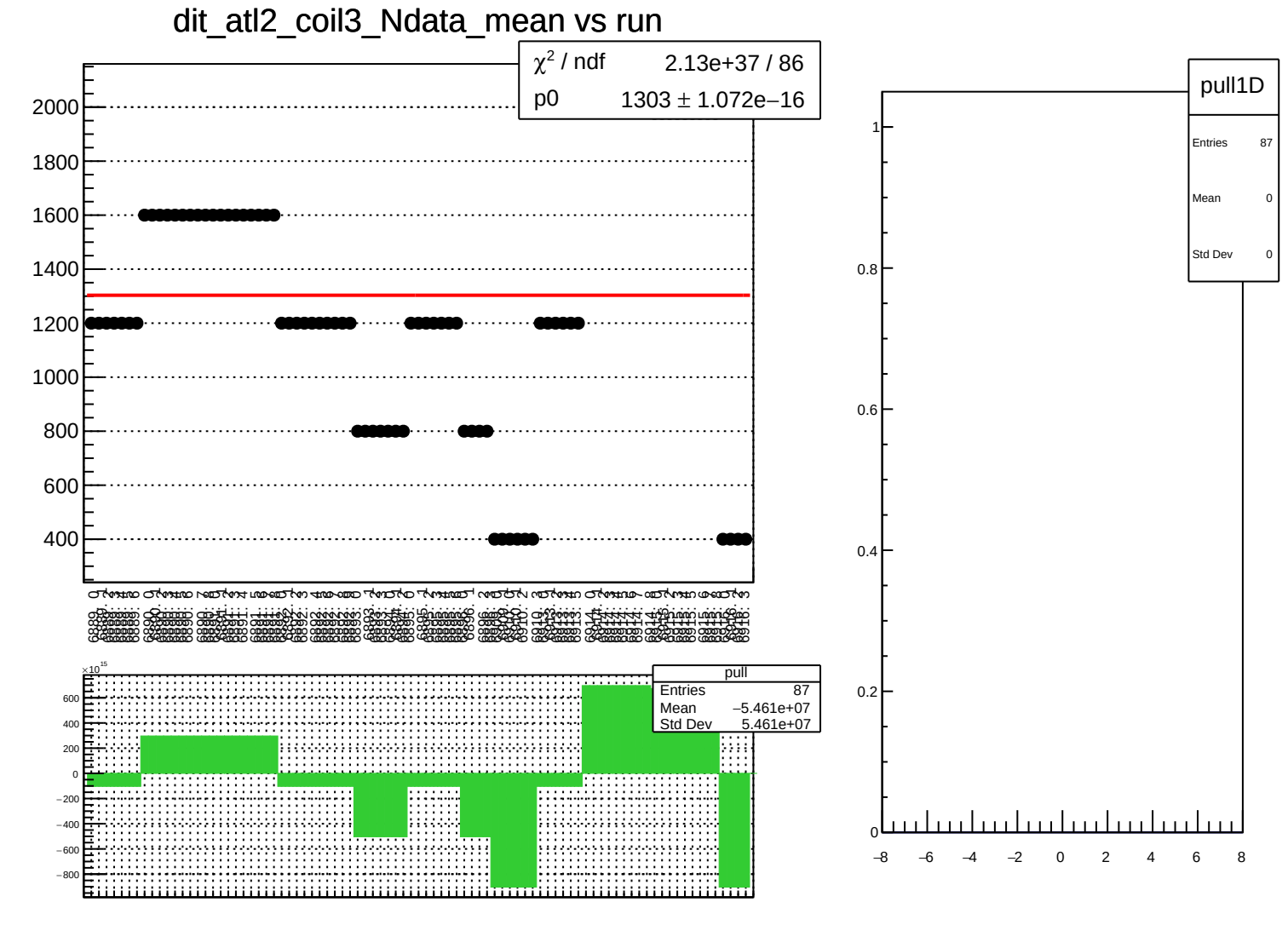

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

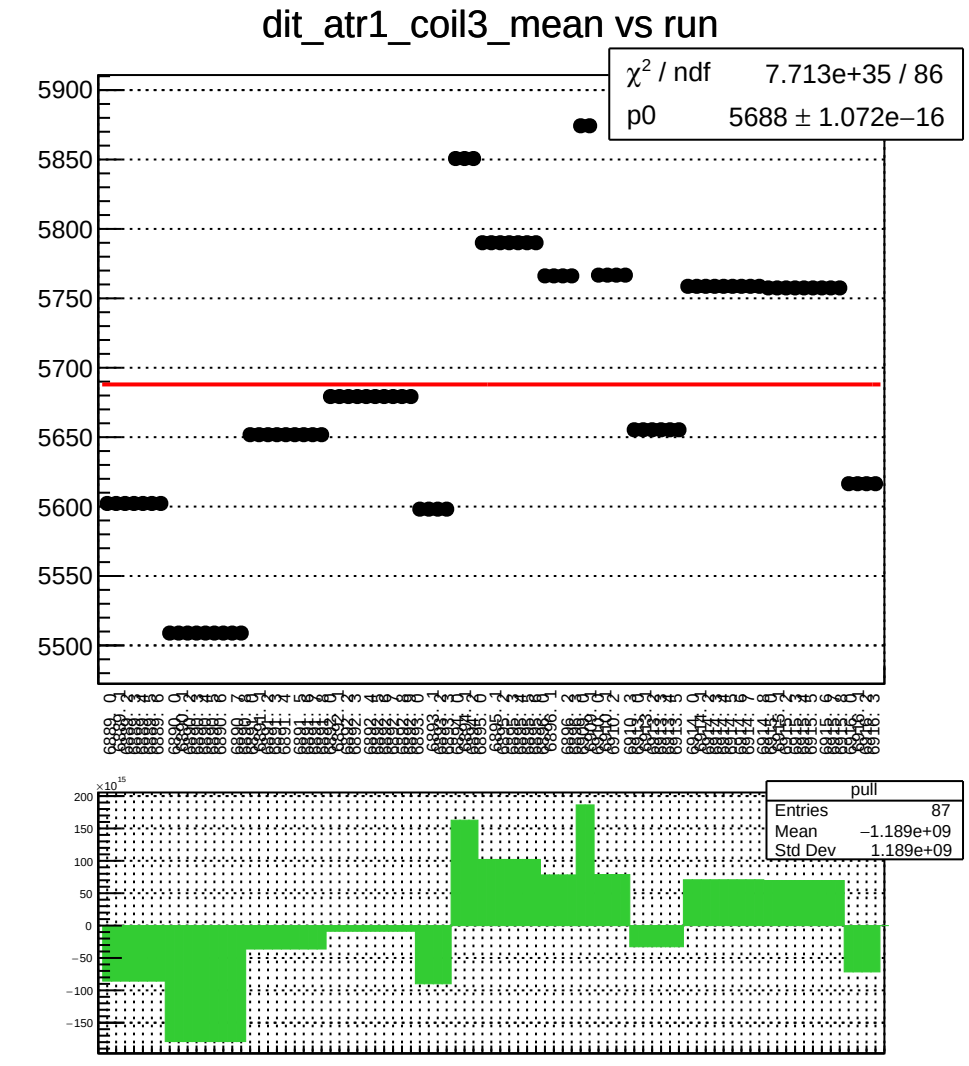

dit_atl2_coil3_mean vs run
χ² / ndf 1.651e+37 / 86
p0 1.112e+04 ± 1.072e−16
12000
11500
11000
10500
10000
pull
Entries 87
Mean 1.844e+09
Std Dev 1.844e+09
×10¹⁵
800
600
400
200
0
−200
−400
−600
−800
−1000

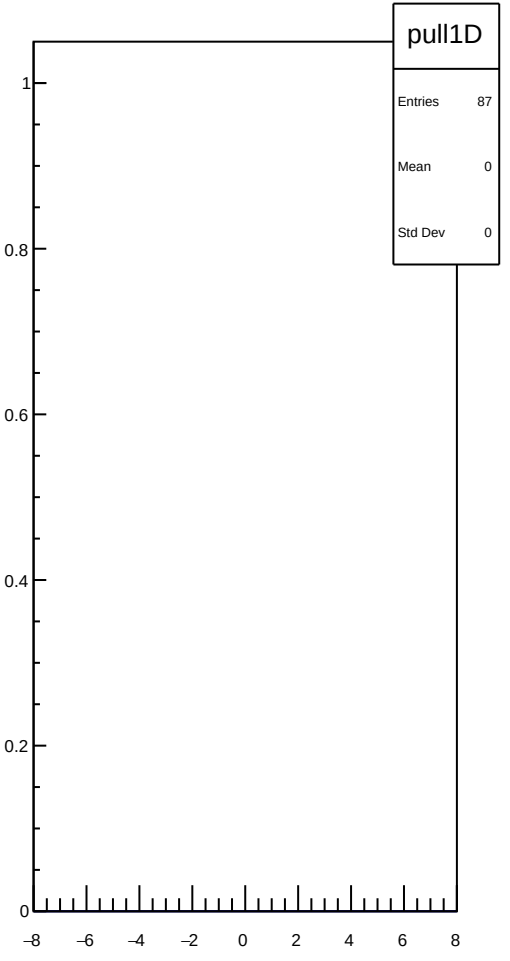

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

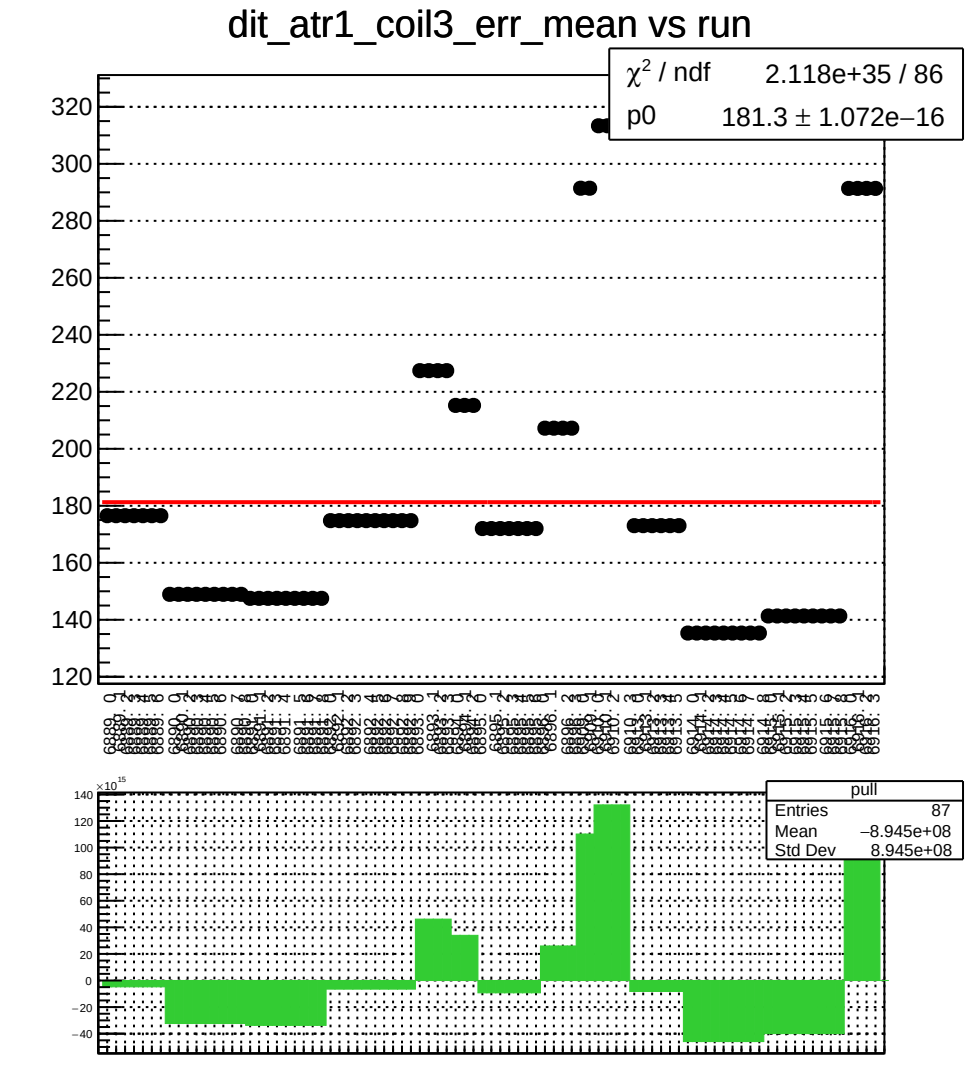

dit_atl2_coil3_err_mean vs run
χ² / ndf 3.183e+36 / 86
p0 764.8 ± 1.072e−16
pull
Entries 87
Mean 8.351e+08
Std Dev 8.351e+08

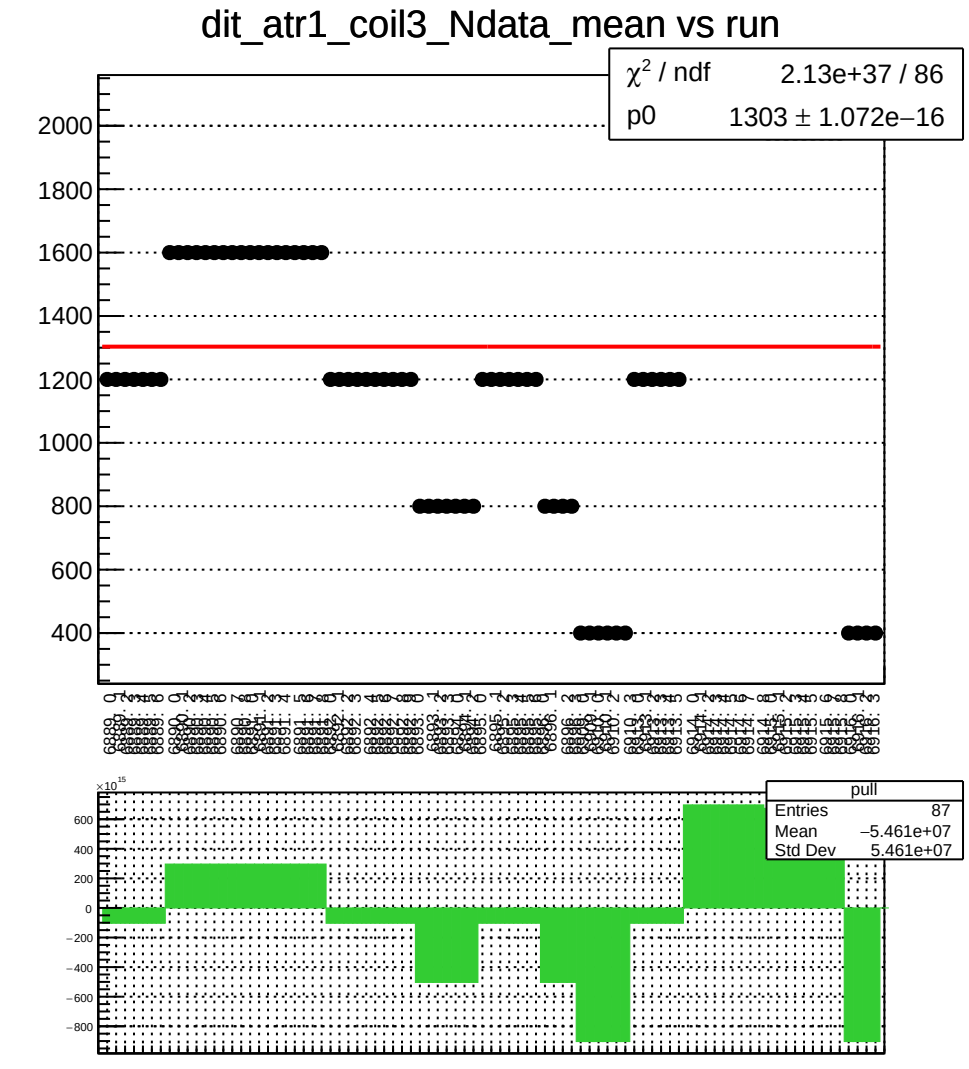

pull1D
Entries 87
Mean 0
Std Dev 0

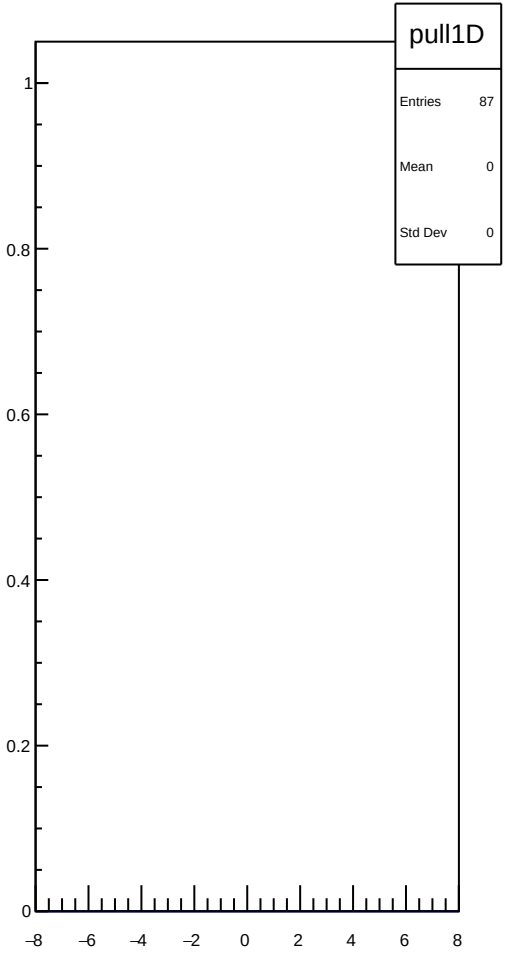

dit_atl2_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

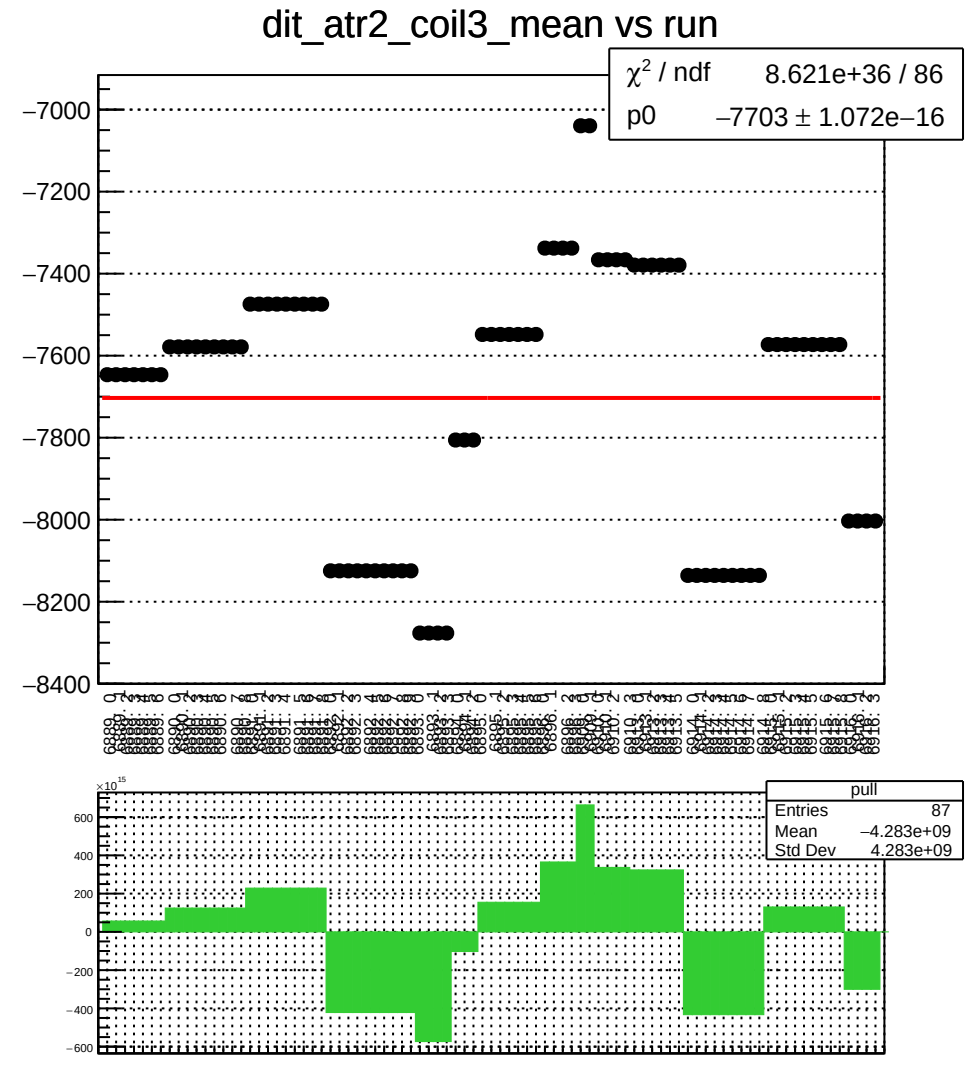

dit_atr1_coil3_mean vs run
χ² / ndf 7.713e+35 / 86
p0 5688 ± 1.072e−16
5900
5850
5800
5750
5700
5650
5600
5550
5500
pull
Entries 87
Mean −1.189e+09
Std Dev 1.189e+09
×10¹⁵
200
150
100
50
0
−50
−100
−150

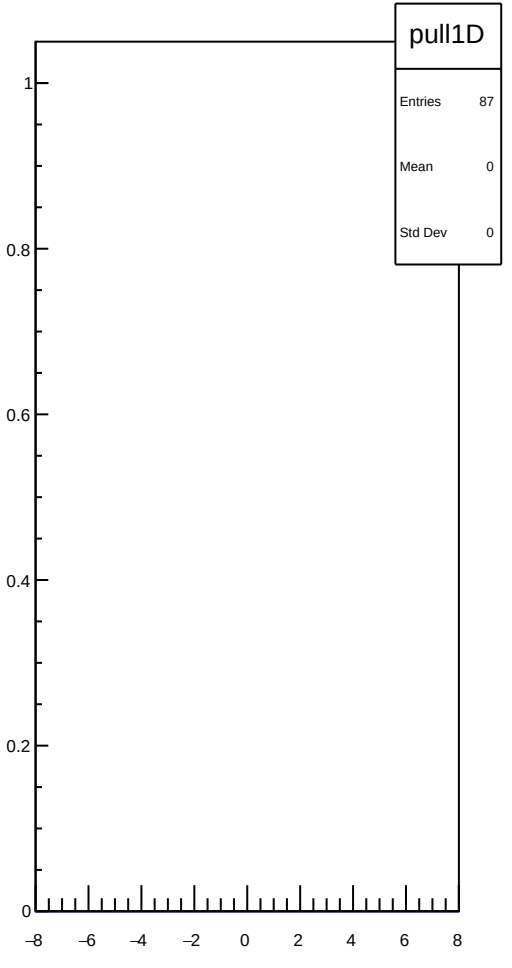

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

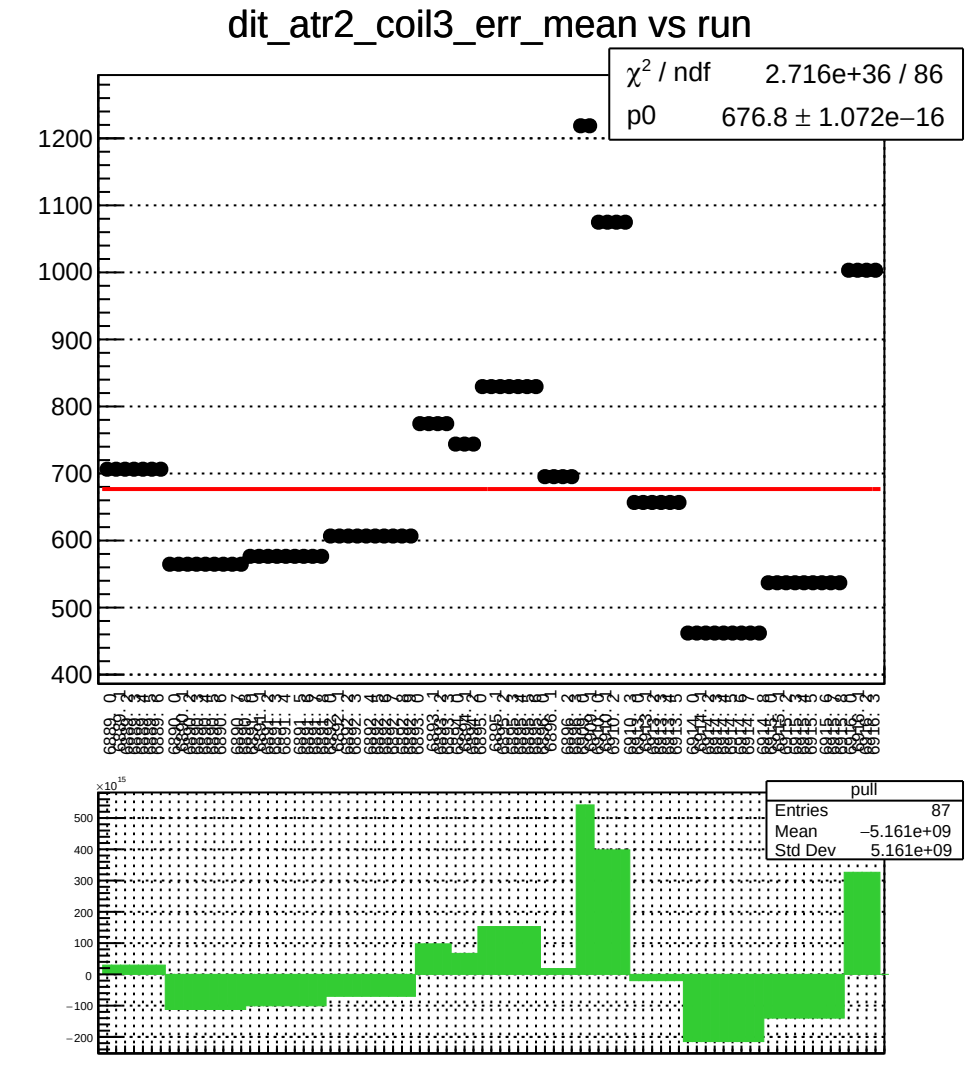

dit_atr1_coil3_err_mean vs run
χ² / ndf 2.118e+35 / 86
p0 181.3 ± 1.072e−16
pull
Entries 87
Mean −8.945e+08
Std Dev 8.945e+08
pull1D
Entries 87
Mean 0
Std Dev 0

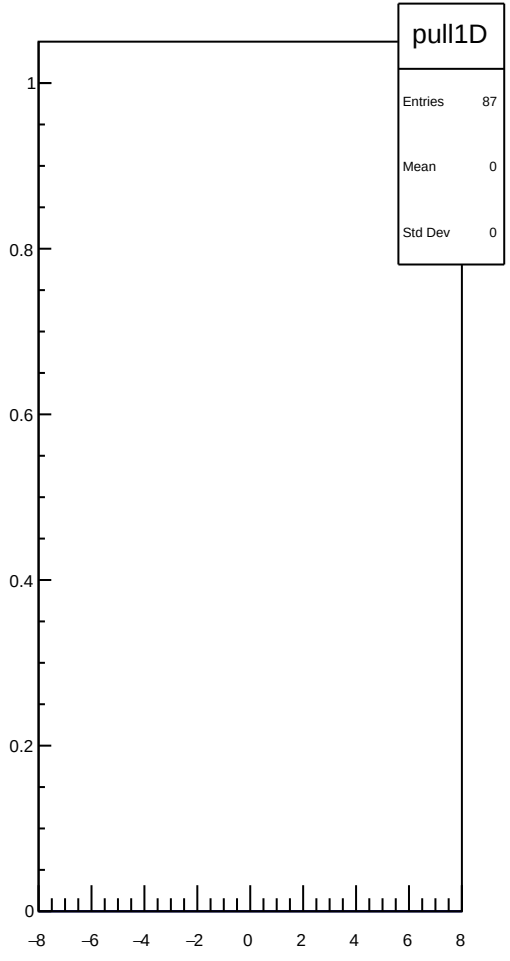

dit_atr1_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800

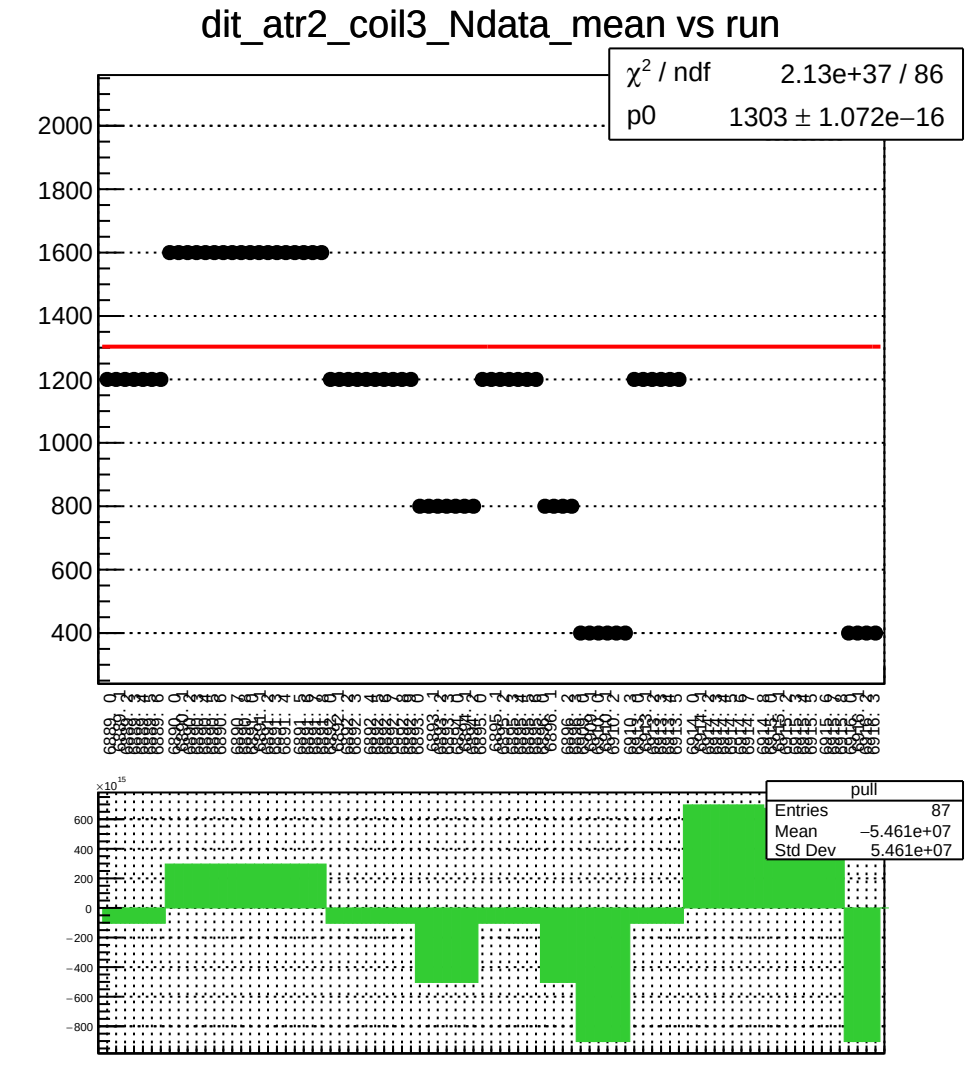

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

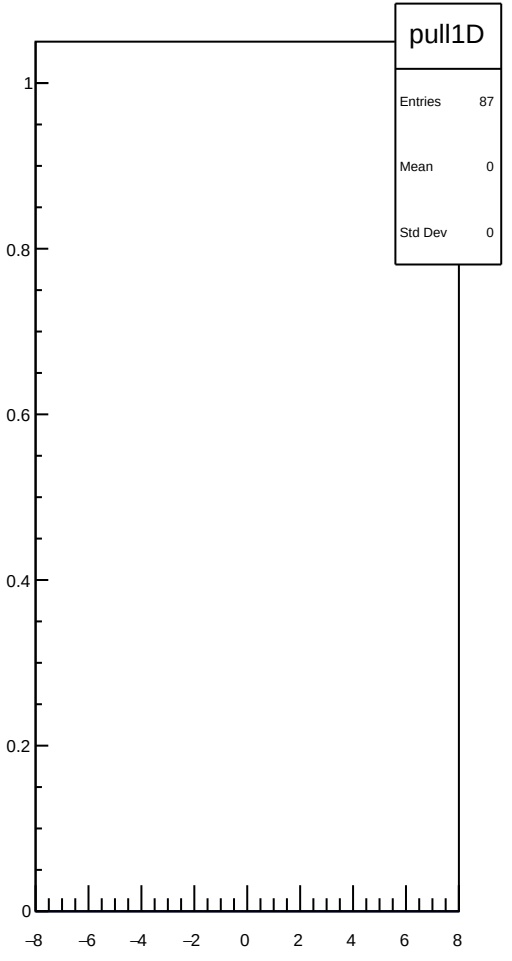

dit_atr2_coil3_mean vs run
χ² / ndf 8.621e+36 / 86
p0 −7703 ± 1.072e−16
−7000
−7200
−7400
−7600
−7800
−8000
−8200
−8400
×10¹⁵
600
400
200
0
−200
−400
−600
pull
Entries 87
Mean −4.283e+09
Std Dev 4.283e+09

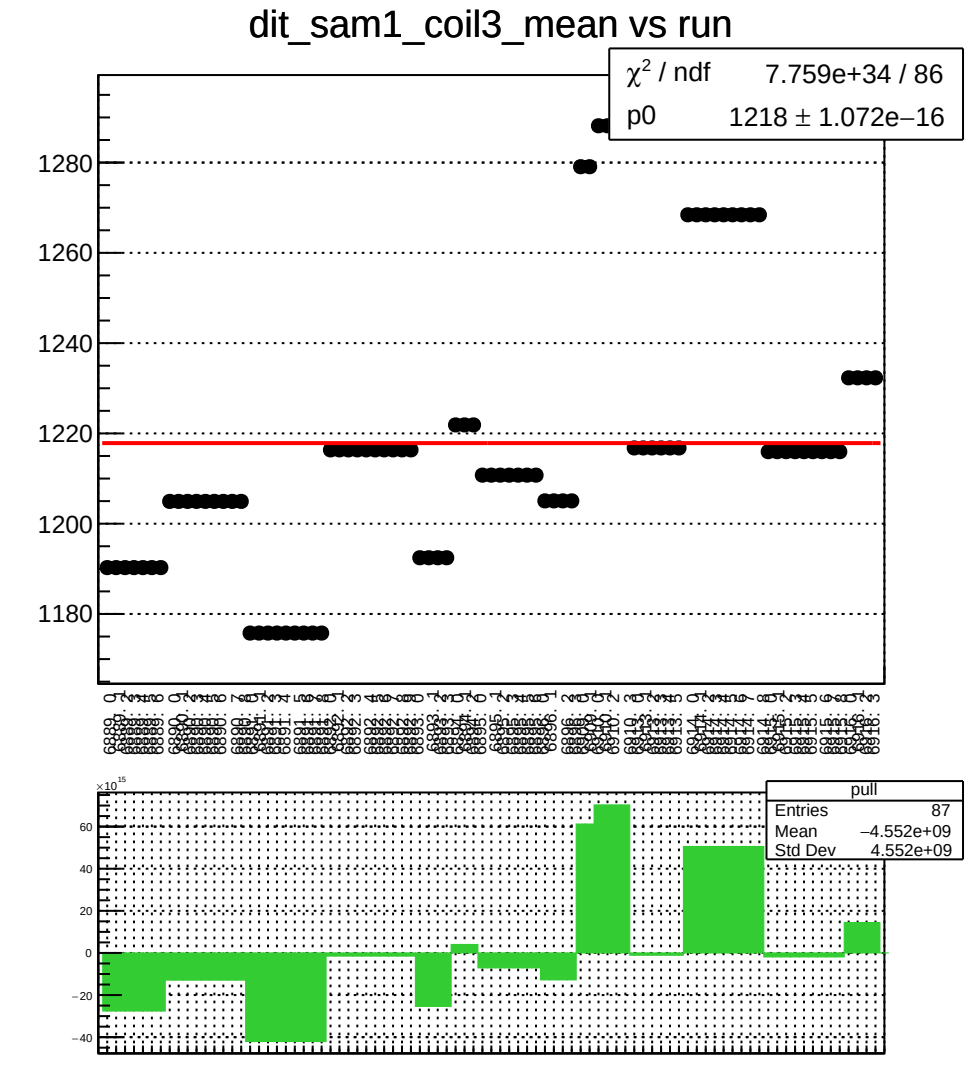

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

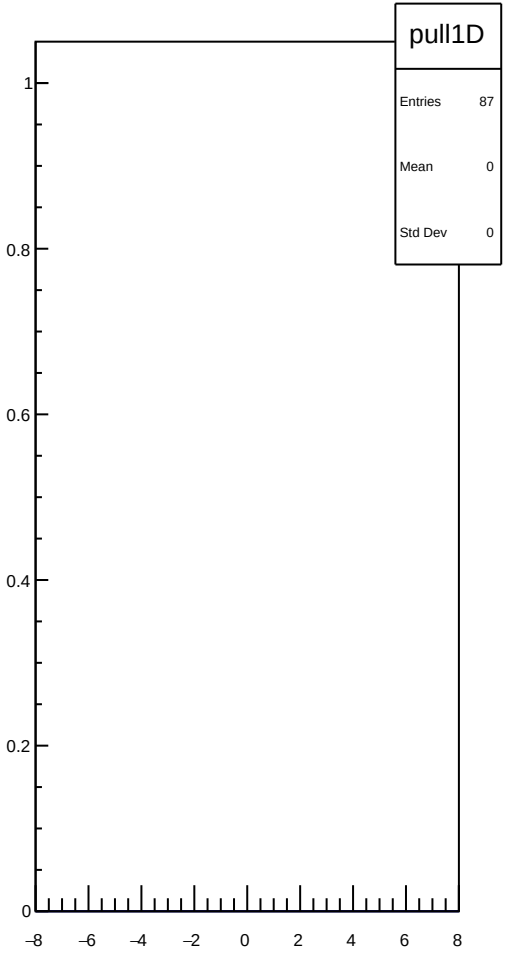

dit_atr2_coil3_err_mean vs run
χ² / ndf 2.716e+36 / 86
p0 676.8 ± 1.072e−16
1200
1100
1000
900
800
700
600
500
400
×10¹⁵
500
400
300
200
100
0
−100
−200
pull
Entries 87
Mean −5.161e+09
Std Dev 5.161e+09

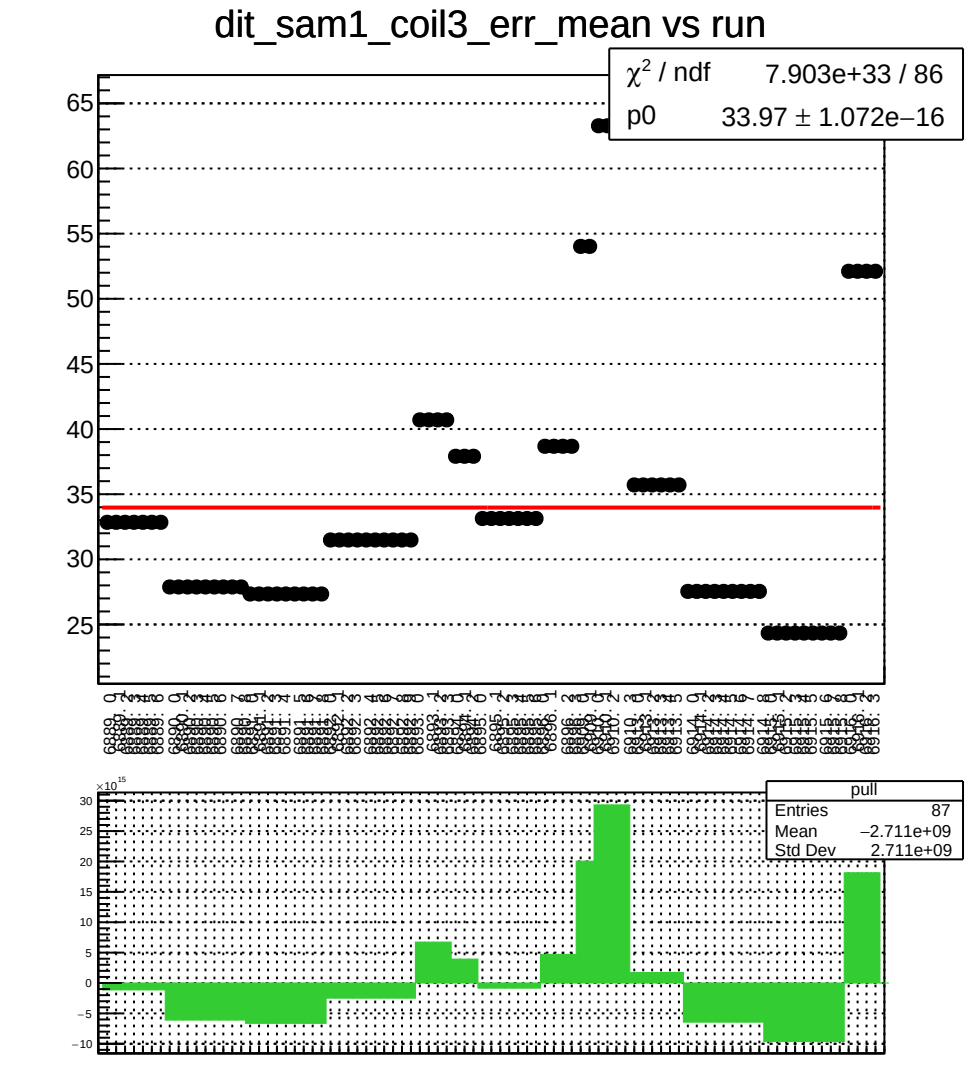

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

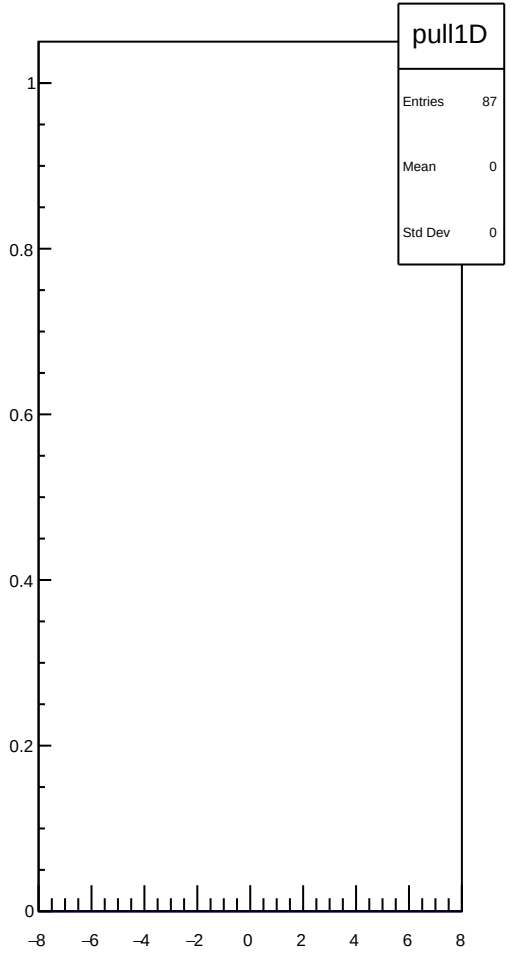

dit_atr2_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800

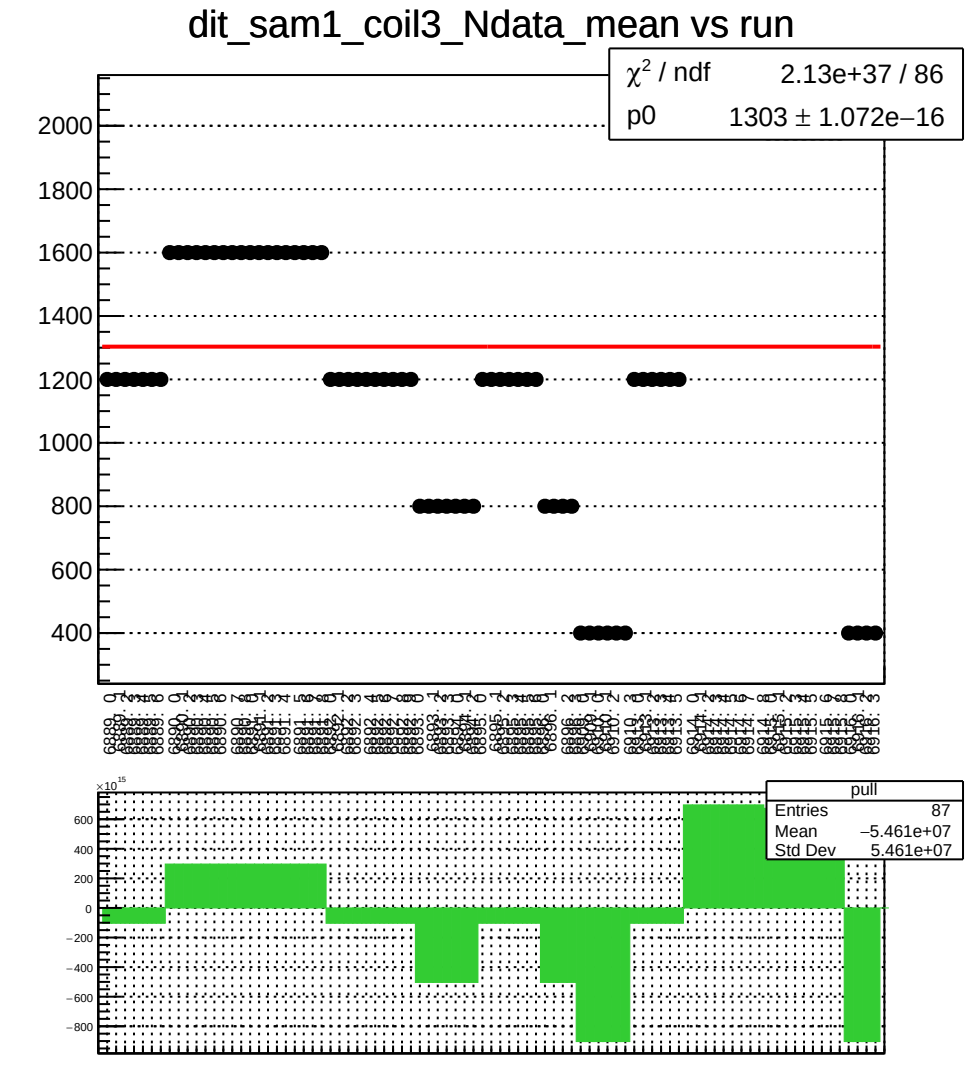

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

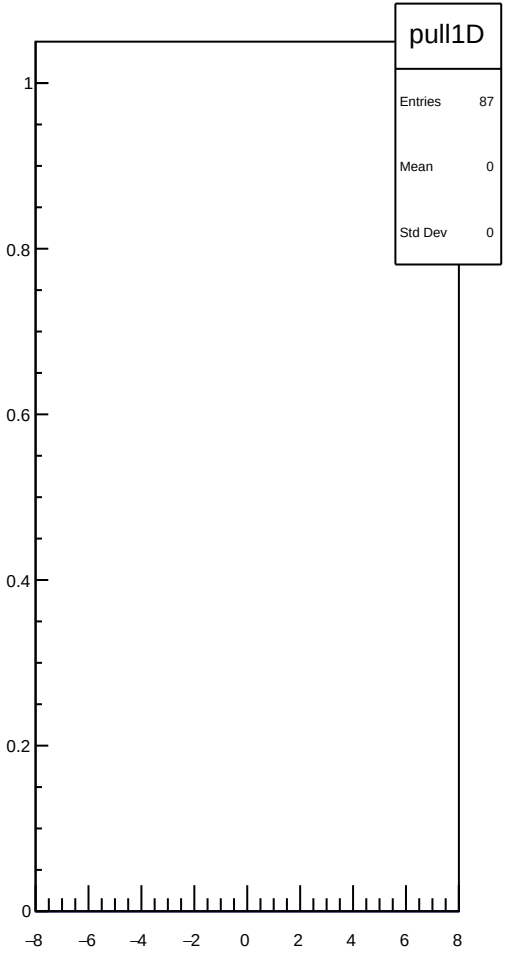

dit_sam1_coil3_mean vs run
χ² / ndf 7.759e+34 / 86
p0 1218 ± 1.072e−16
1280
1260
1240
1220
1200
1180
pull
Entries 87
Mean −4.552e+09
Std Dev 4.552e+09
×10¹⁵
60
40
20
0
−20
−40

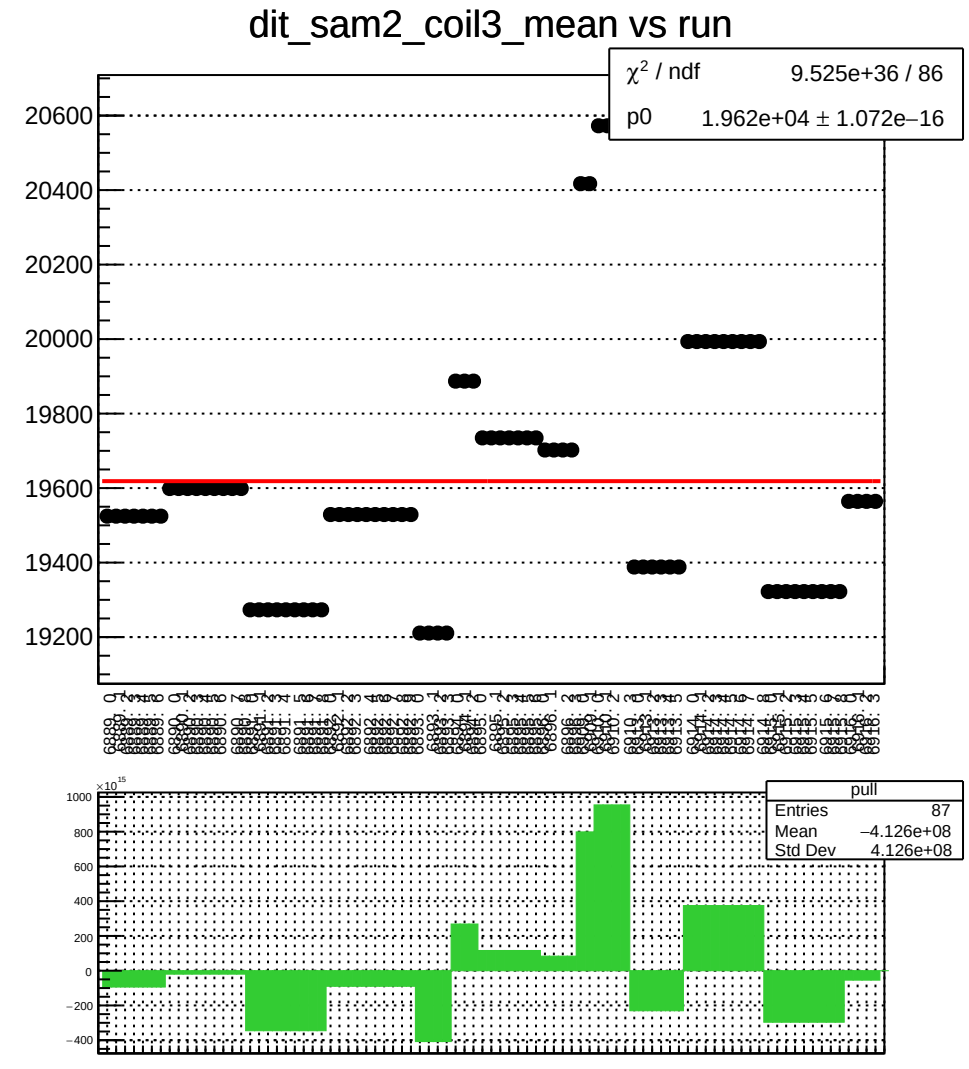

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

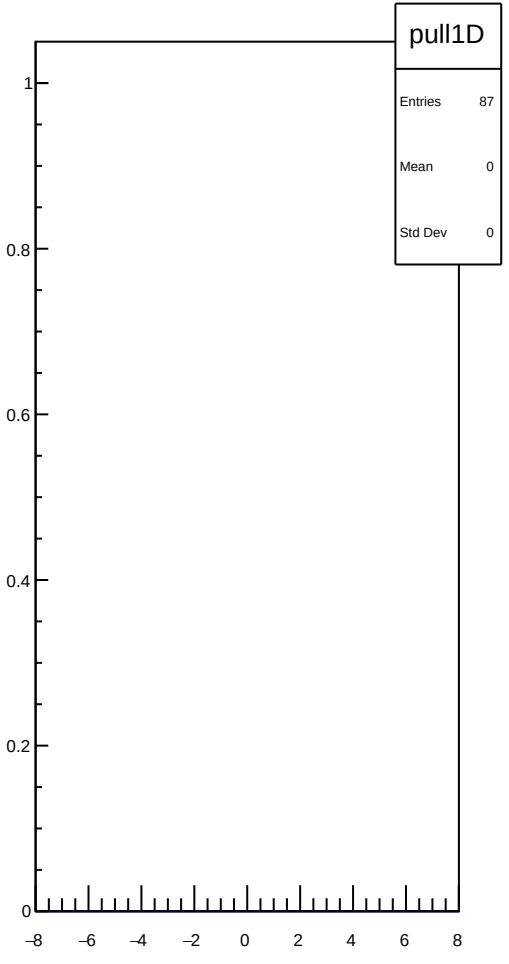

dit_sam1_coil3_err_mean vs run
χ² / ndf 7.903e+33 / 86
p0 33.97 ± 1.072e−16
pull
Entries 87
Mean −2.711e+09
Std Dev 2.711e+09

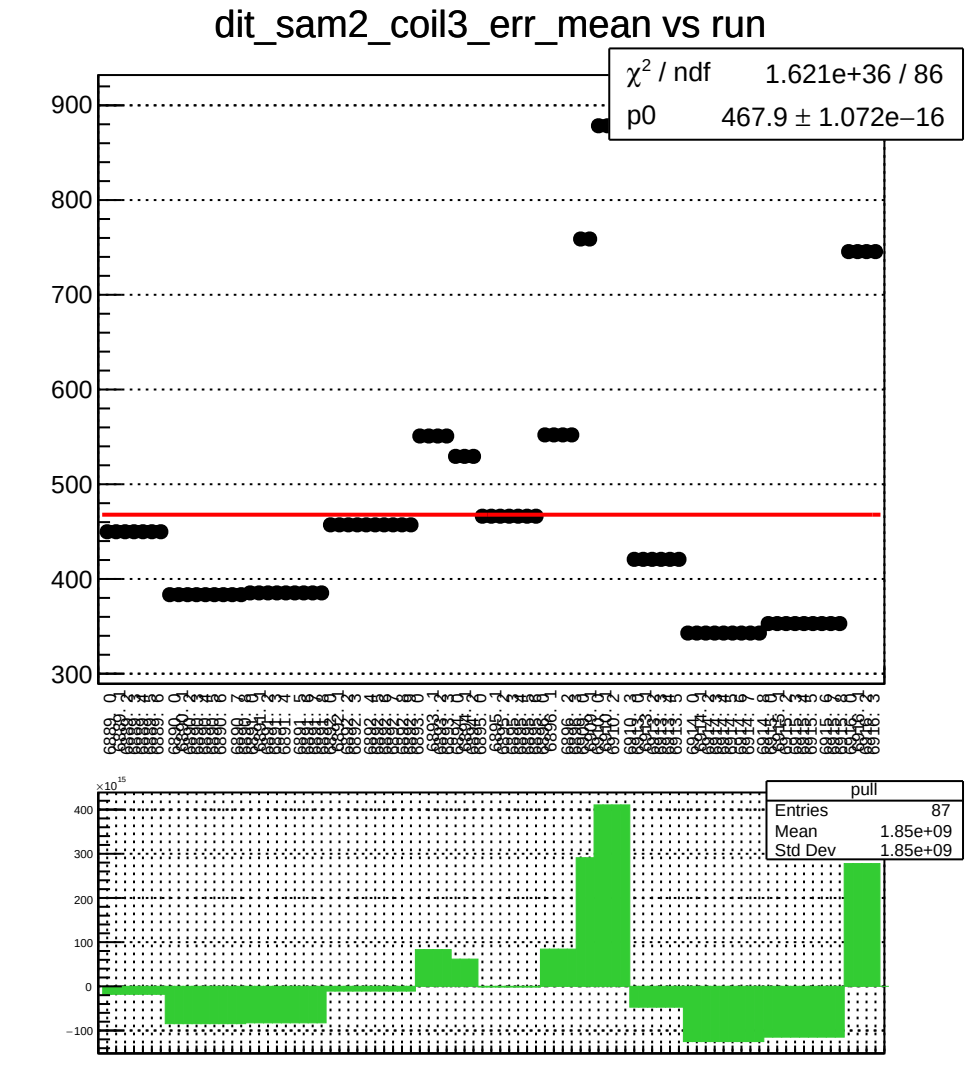

pull1D
Entries 87
Mean 0
Std Dev 0

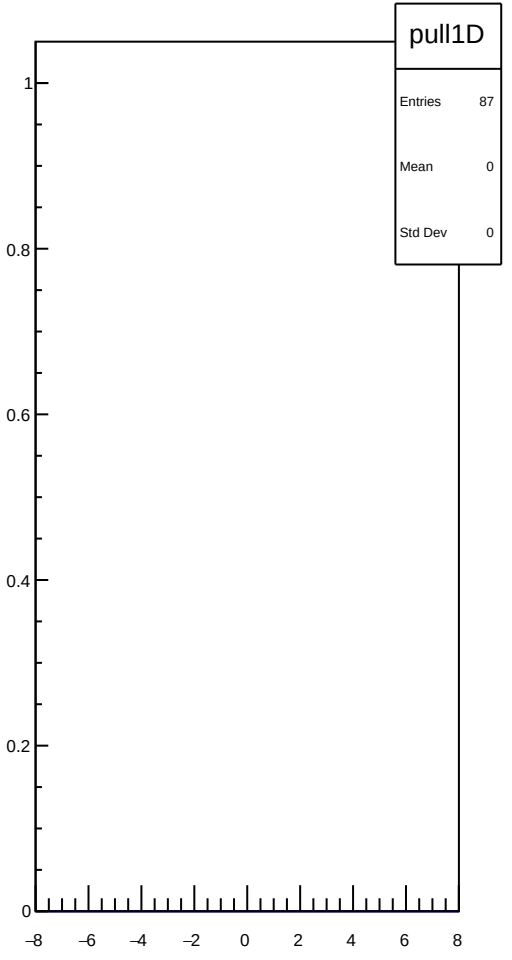

dit_sam1_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800

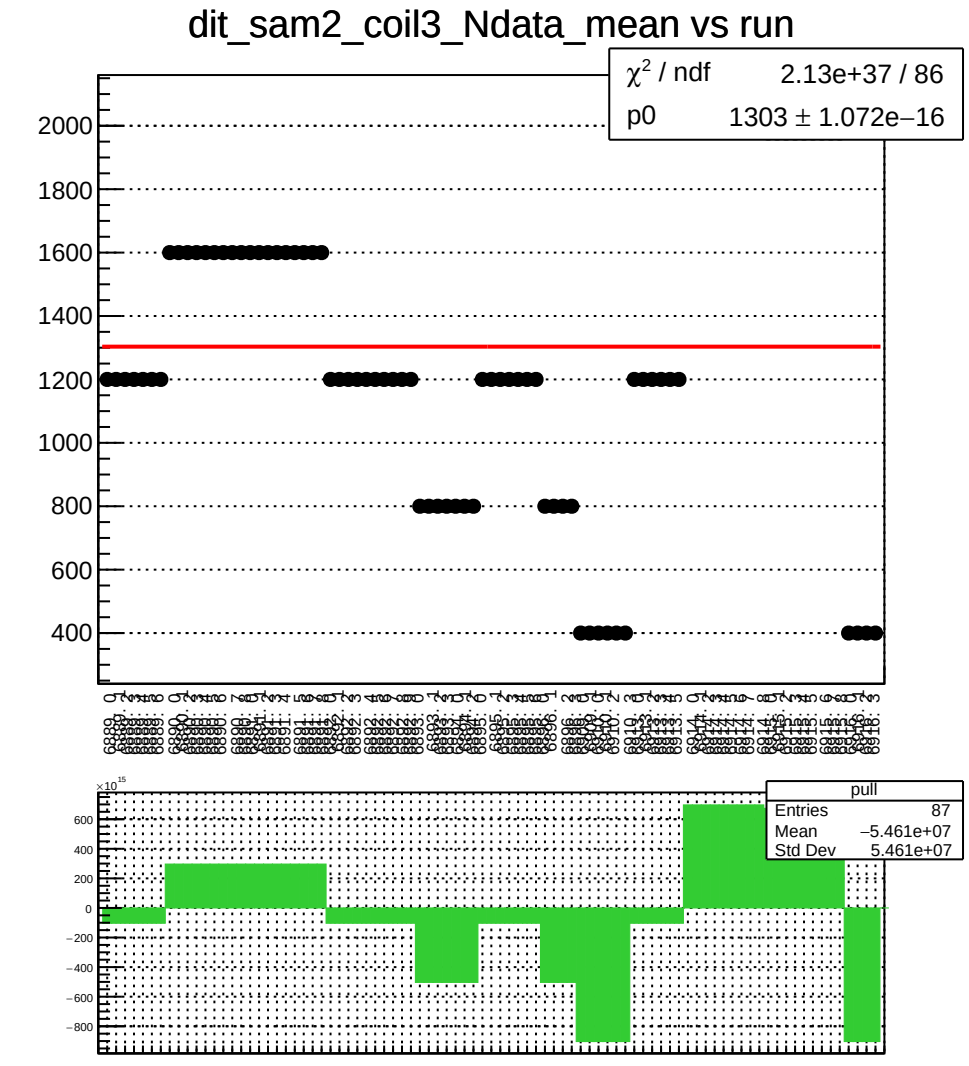

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

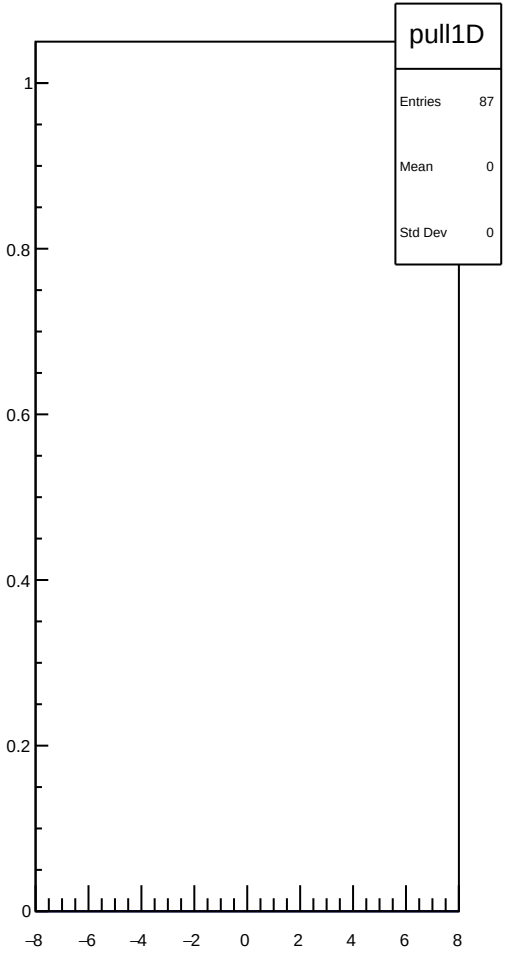

dit_sam2_coil3_mean vs run
χ² / ndf 9.525e+36 / 86
p0 1.962e+04 ± 1.072e−16
20600
20400
20200
20000
19800
19600
19400
19200
×10¹⁵
1000
800
600
400
200
0
−200
−400
pull
Entries 87
Mean −4.126e+08
Std Dev 4.126e+08

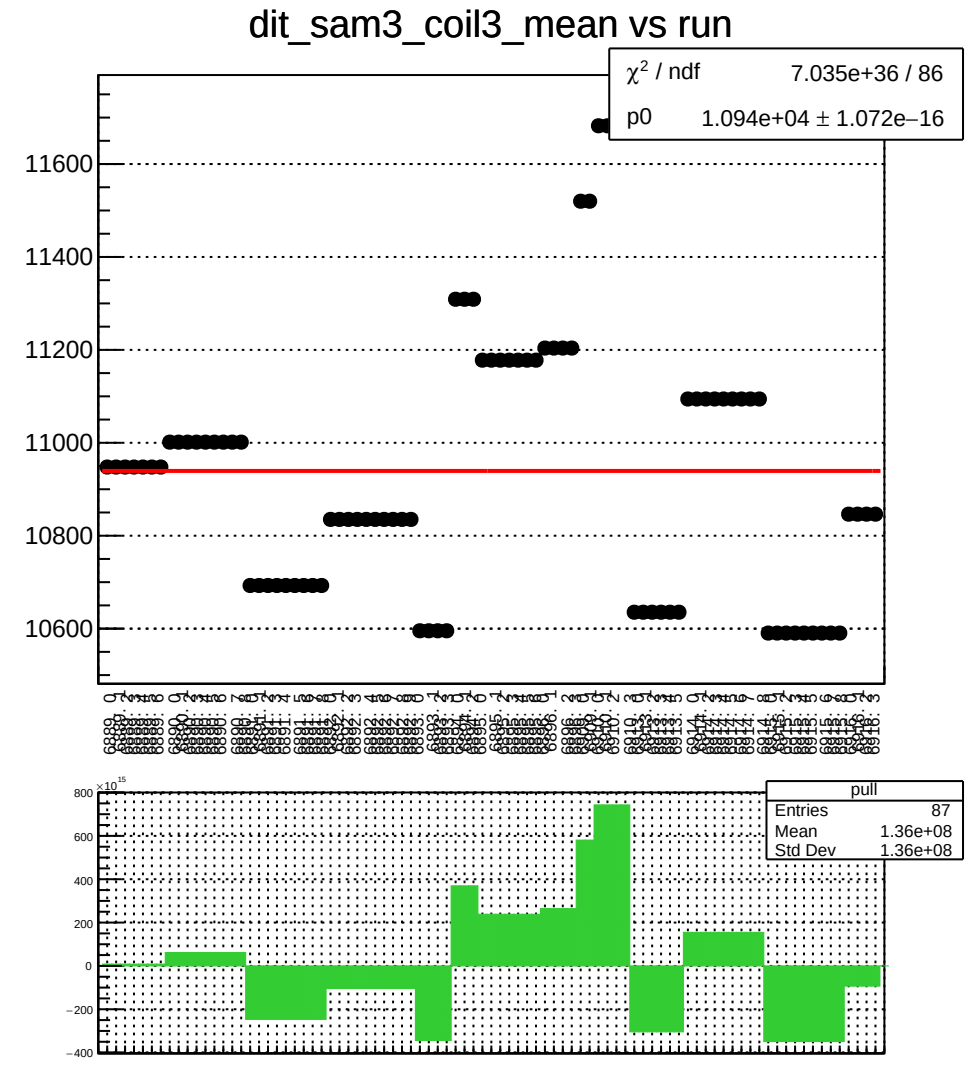

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

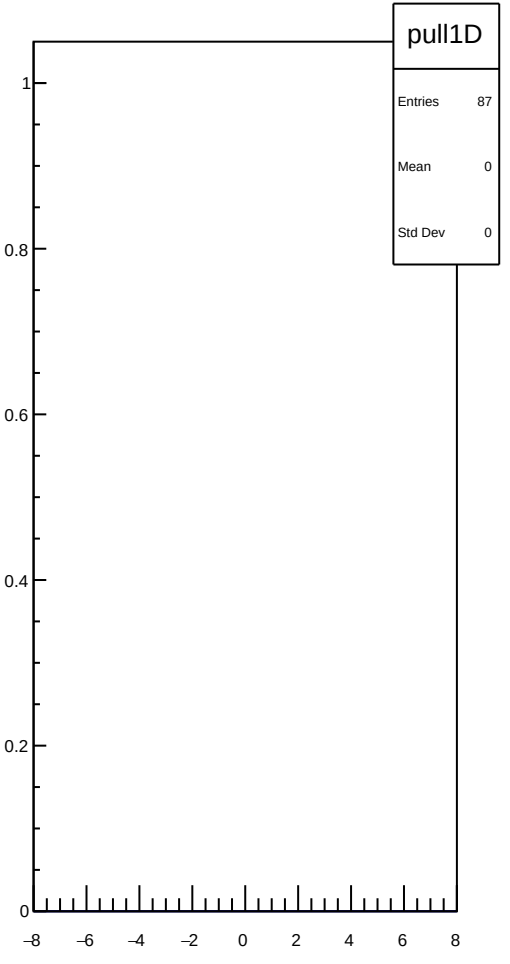

dit_sam2_coil3_err_mean vs run
χ² / ndf 1.621e+36 / 86
p0 467.9 ± 1.072e−16
900
800
700
600
500
400
300
pull
Entries 87
Mean 1.85e+09
Std Dev 1.85e+09
×10¹⁵
400
300
200
100
0
−100

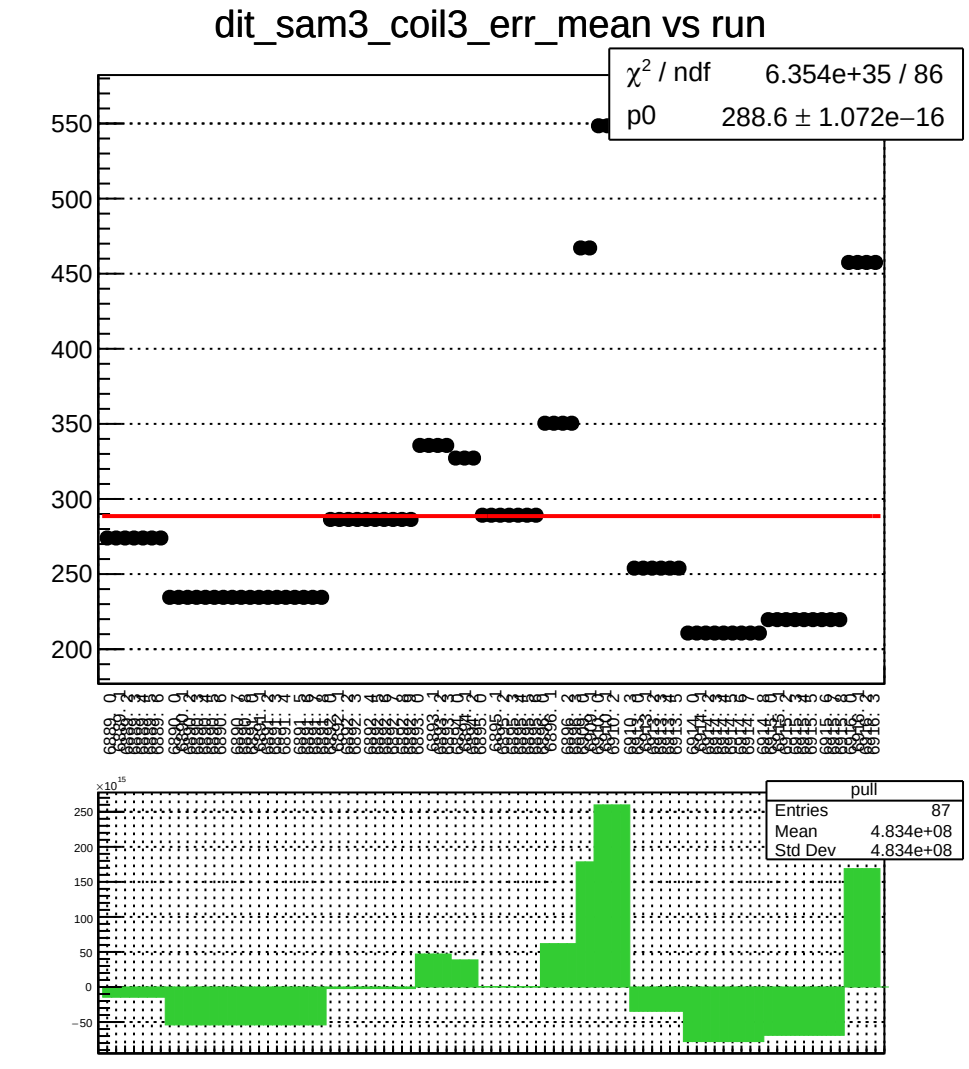

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

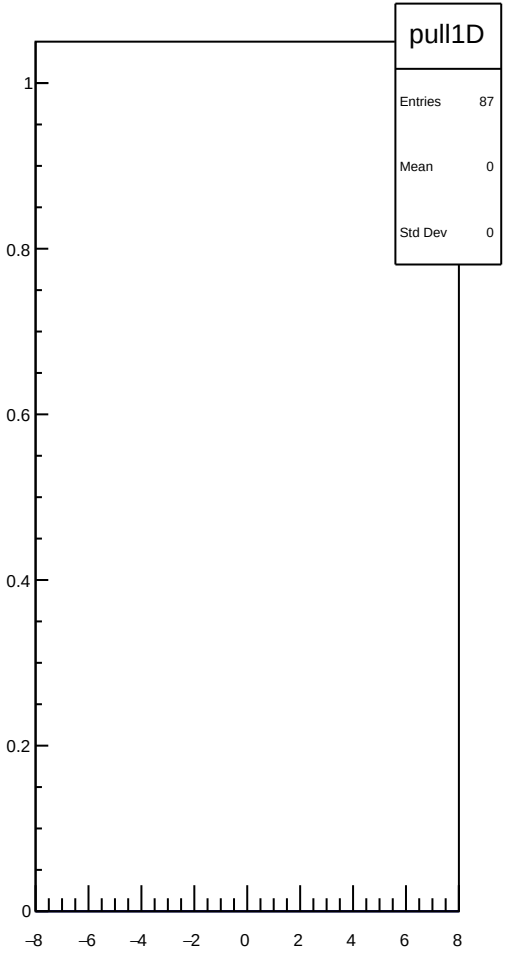

dit_sam2_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800

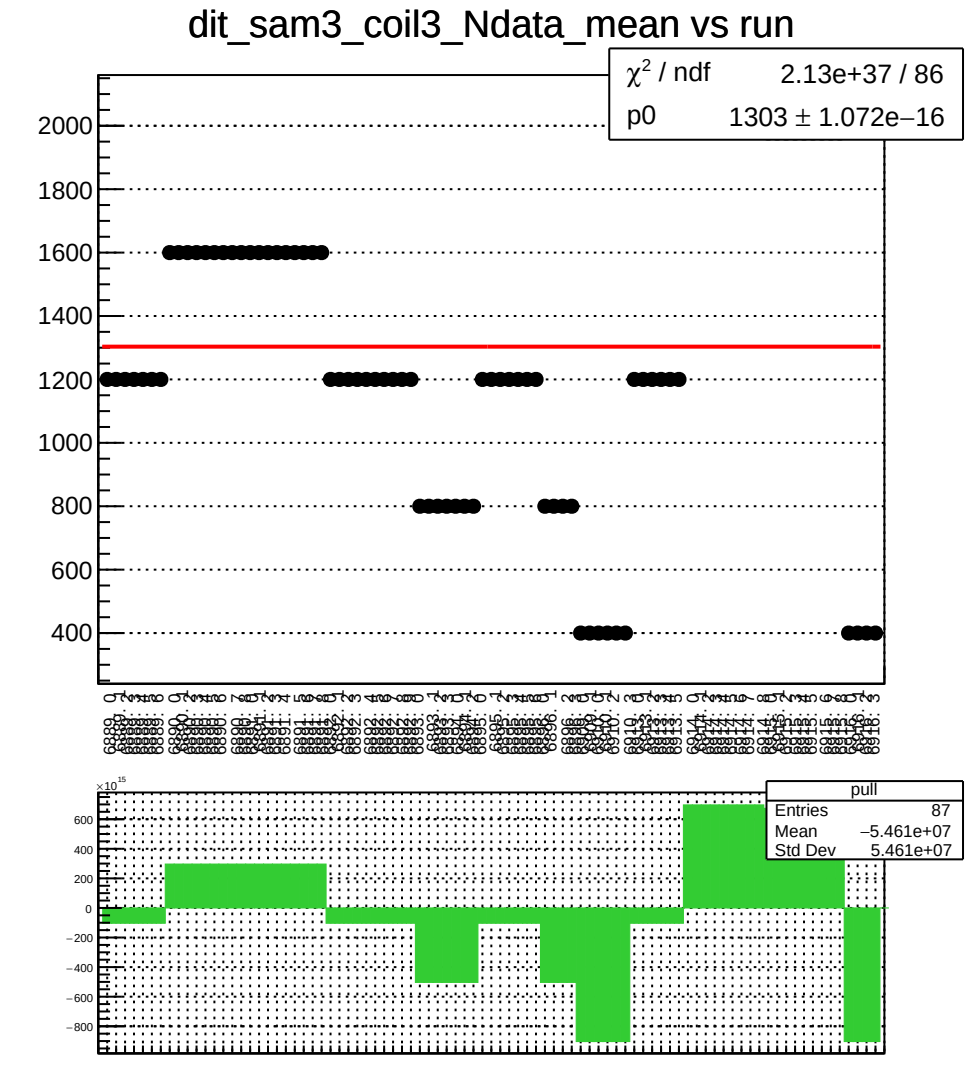

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

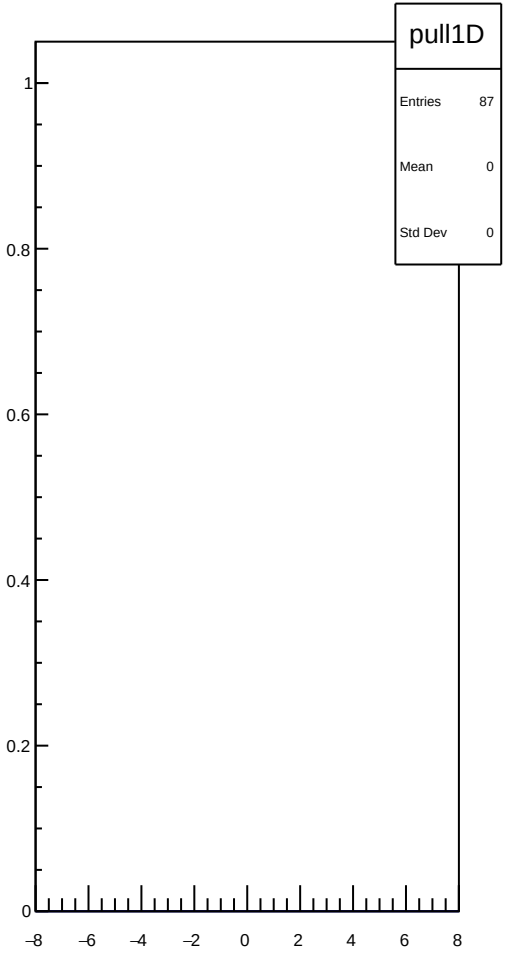

dit_sam3_coil3_mean vs run
χ² / ndf 7.035e+36 / 86
p0 1.094e+04 ± 1.072e−16
11600
11400
11200
11000
10800
10600
pull
Entries 87
Mean 1.36e+08
Std Dev 1.36e+08
×10¹⁵
800
600
400
200
0
−200
−400

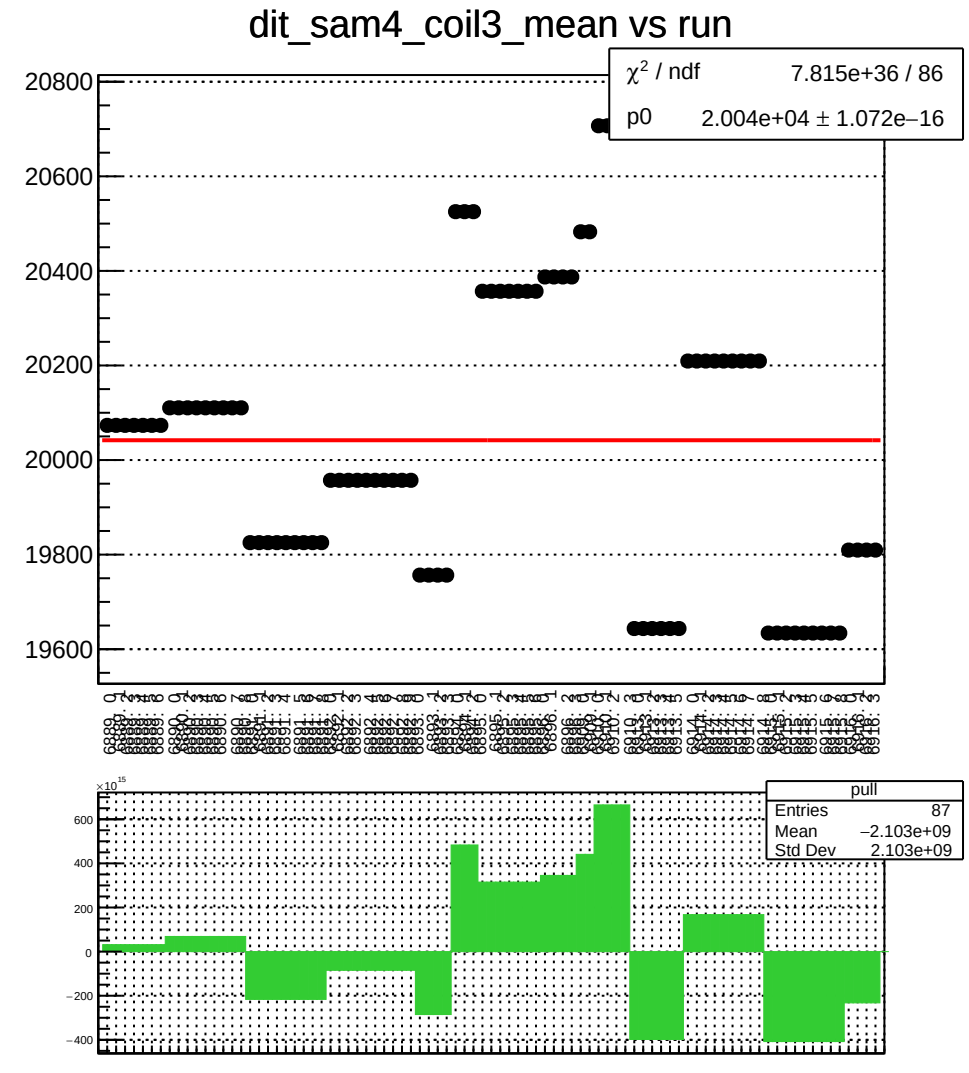

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

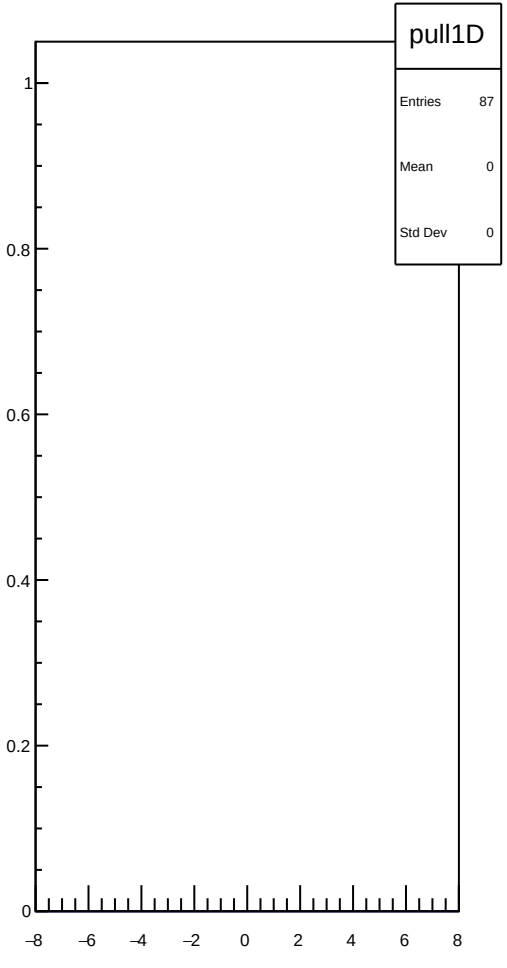

dit_sam3_coil3_err_mean vs run
χ² / ndf 6.354e+35 / 86
p0 288.6 ± 1.072e−16
550
500
450
400
350
300
250
200
pull
Entries 87
Mean 4.834e+08
Std Dev 4.834e+08
×10¹⁵
250
200
150
100
50
0
−50

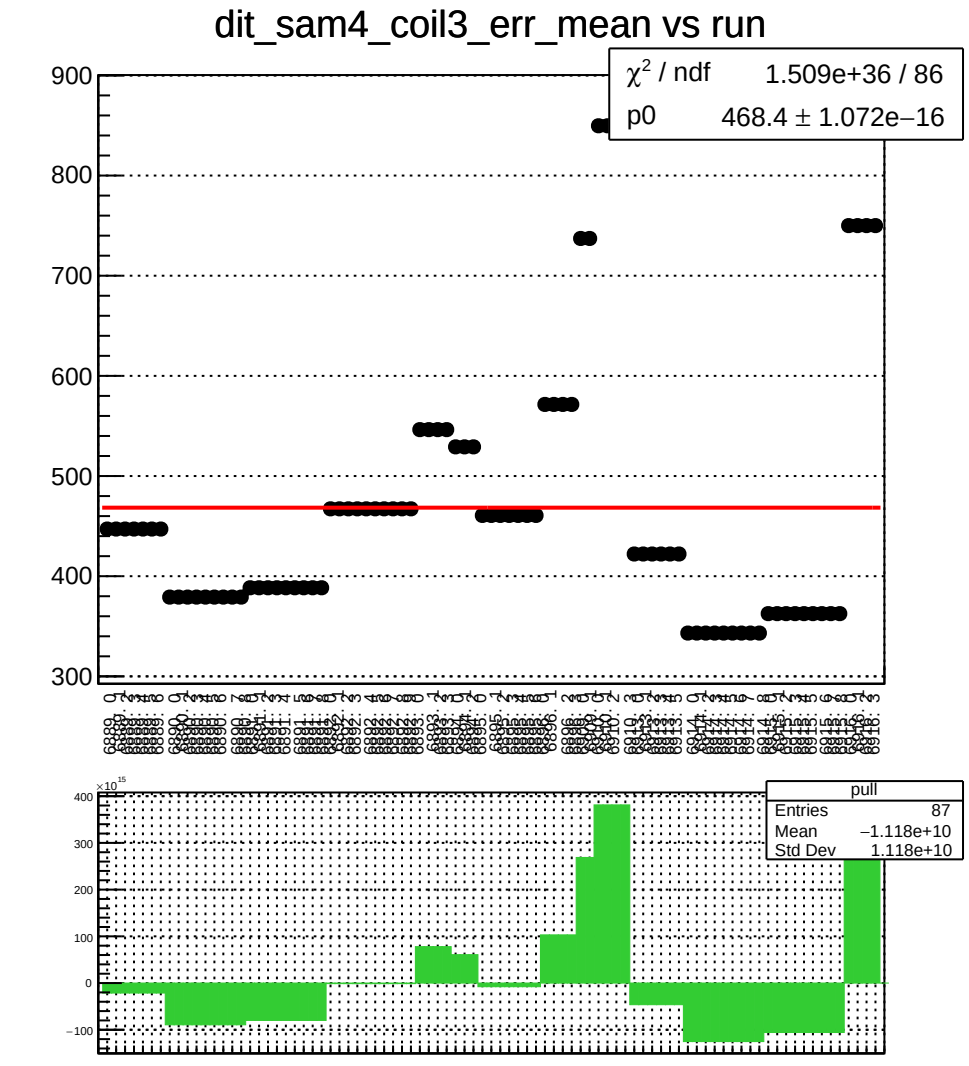

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

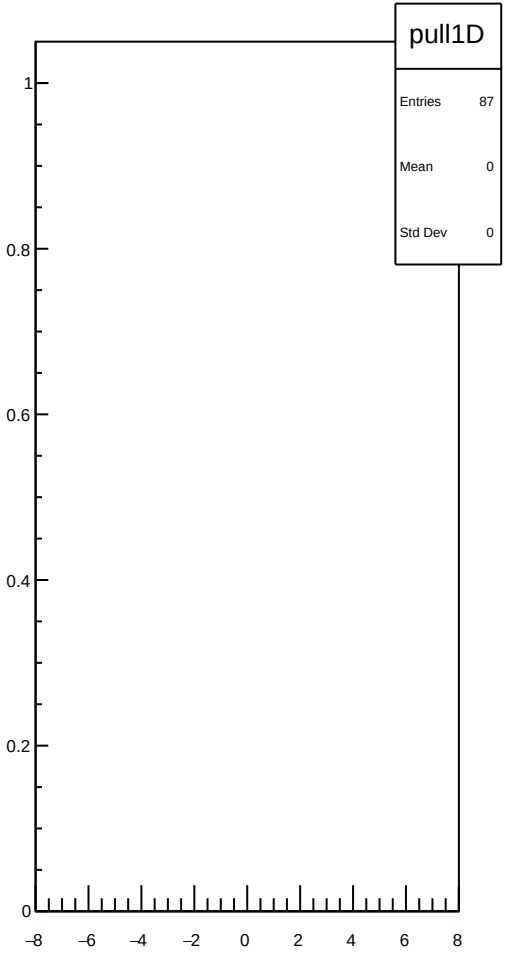

dit_sam3_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800

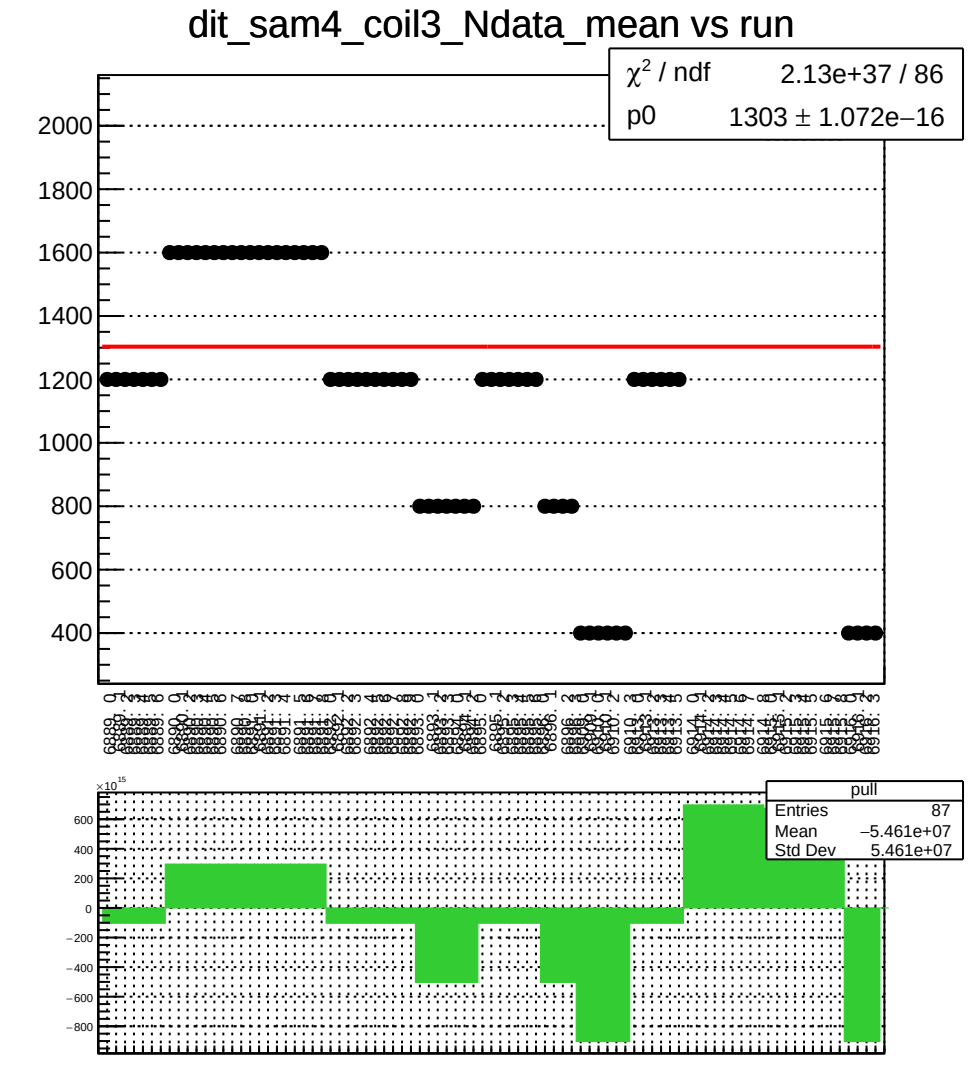

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

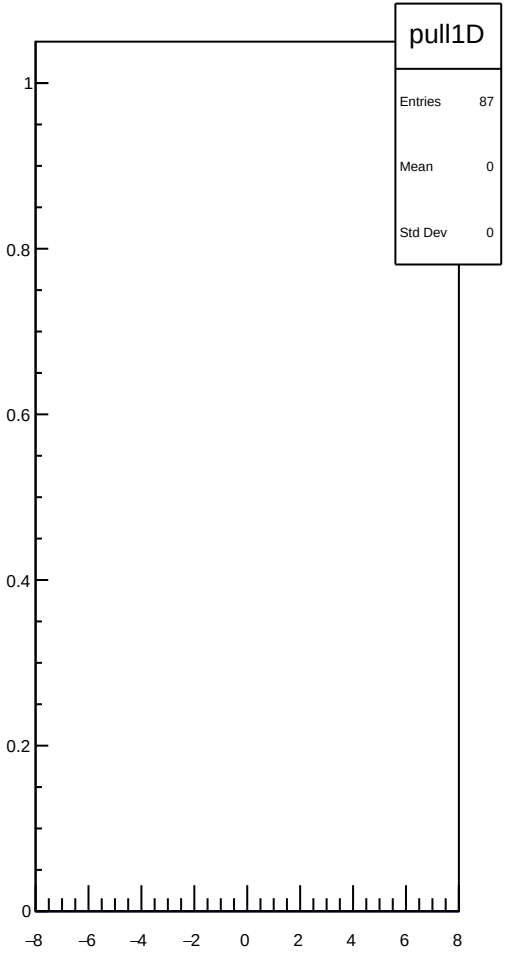

dit_sam4_coil3_mean vs run
χ² / ndf 7.815e+36 / 86
p0 2.004e+04 ± 1.072e−16
20800
20600
20400
20200
20000
19800
19600
pull
Entries 87
Mean −2.103e+09
Std Dev 2.103e+09
×10¹⁵
600
400
200
0
−200
−400

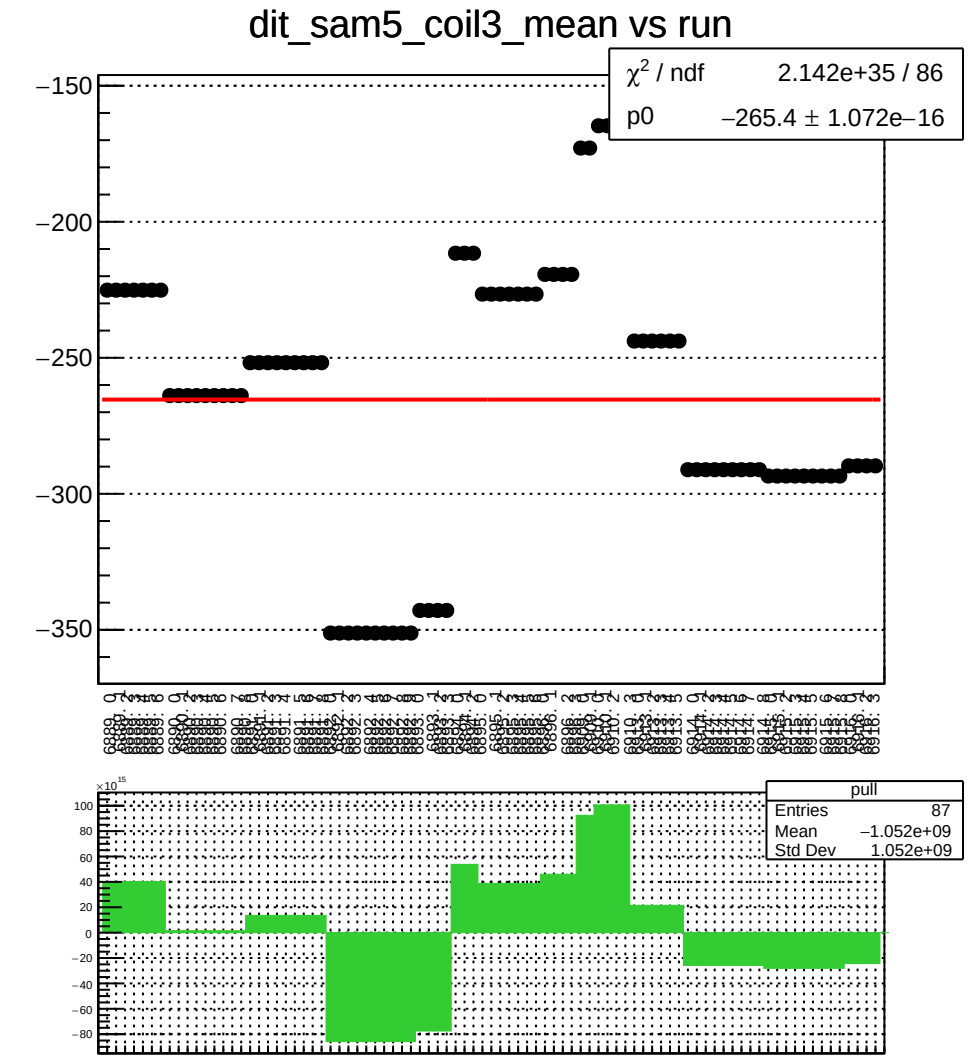

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

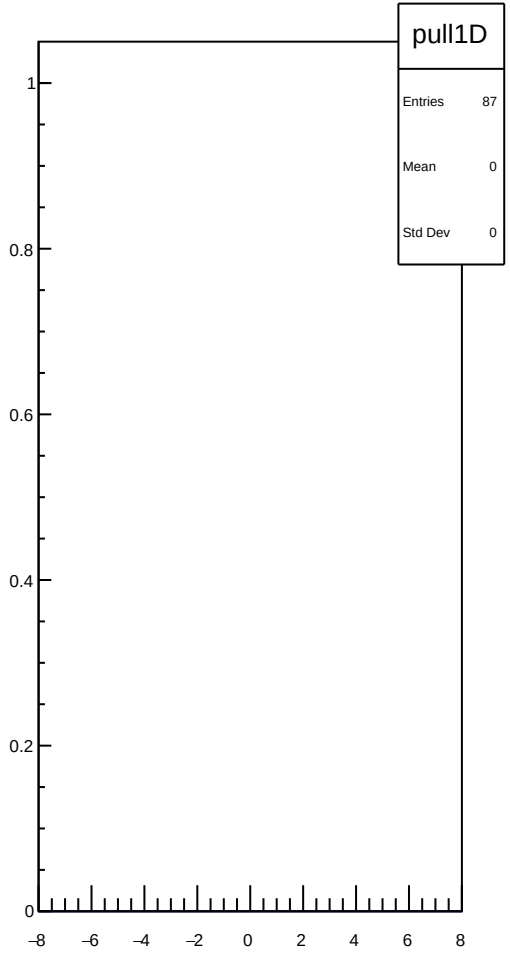

dit_sam4_coil3_err_mean vs run
χ² / ndf 1.509e+36 / 86
p0 468.4 ± 1.072e−16
900
800
700
600
500
400
300
pull
Entries 87
Mean −1.118e+10
Std Dev 1.118e+10
×10¹⁵
400
300
200
100
0
−100

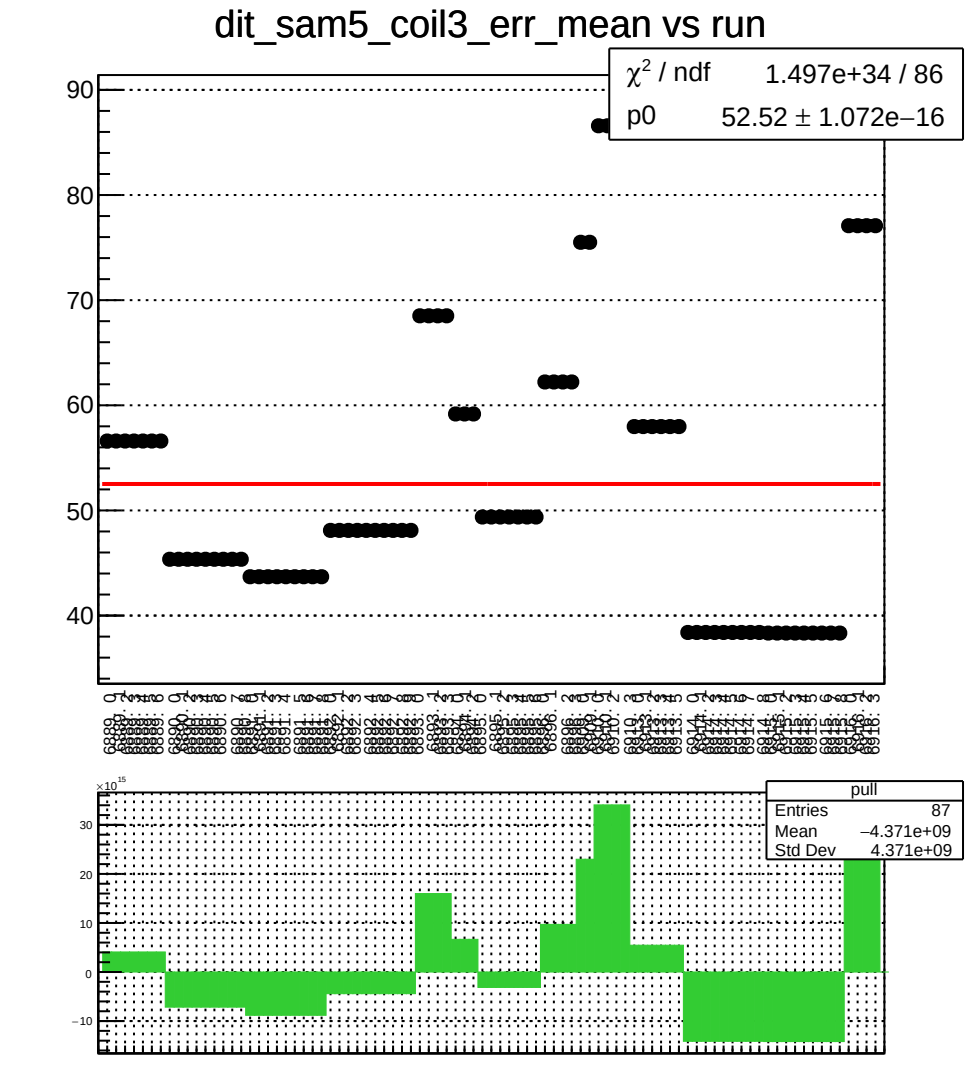

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

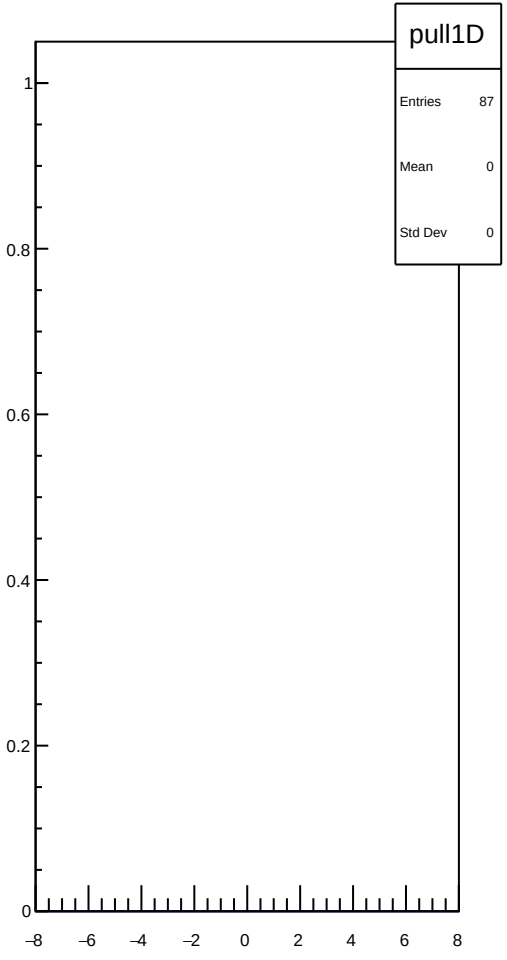

dit_sam4_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800

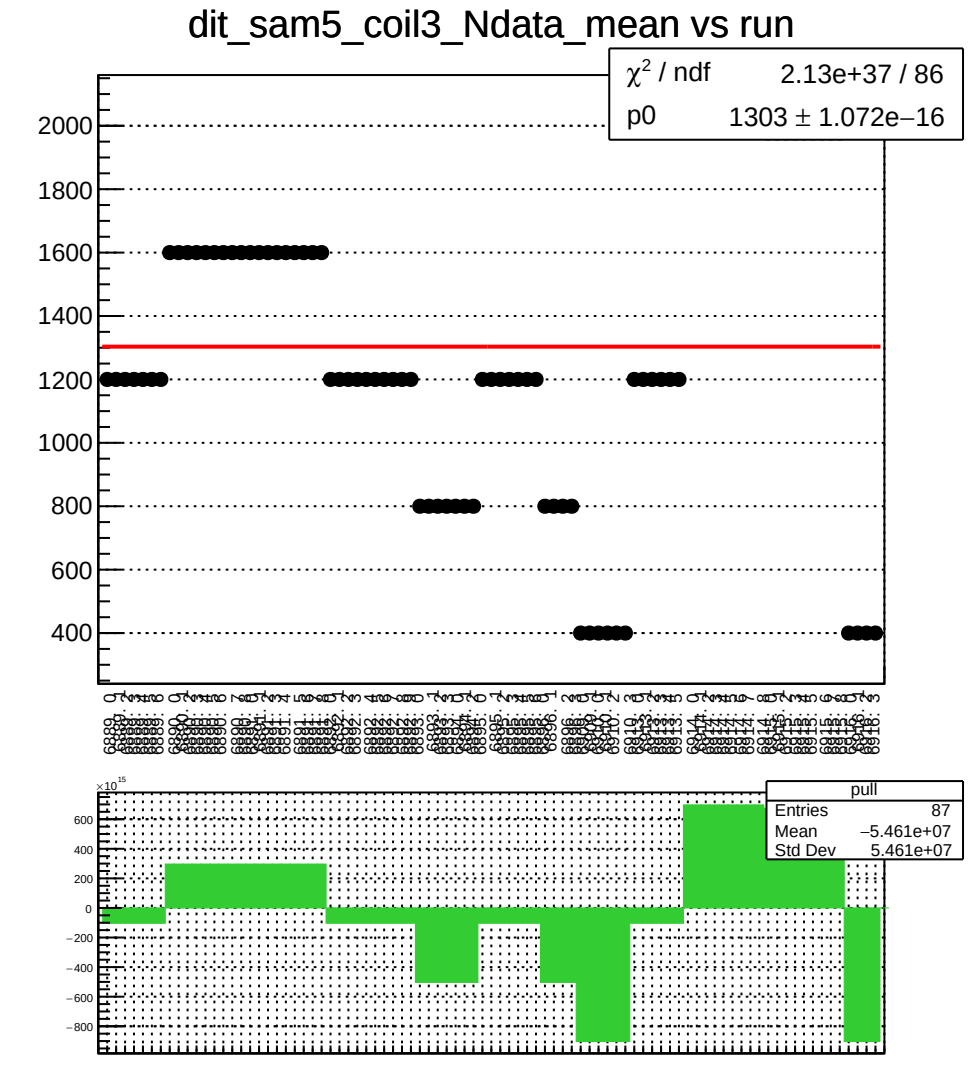

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

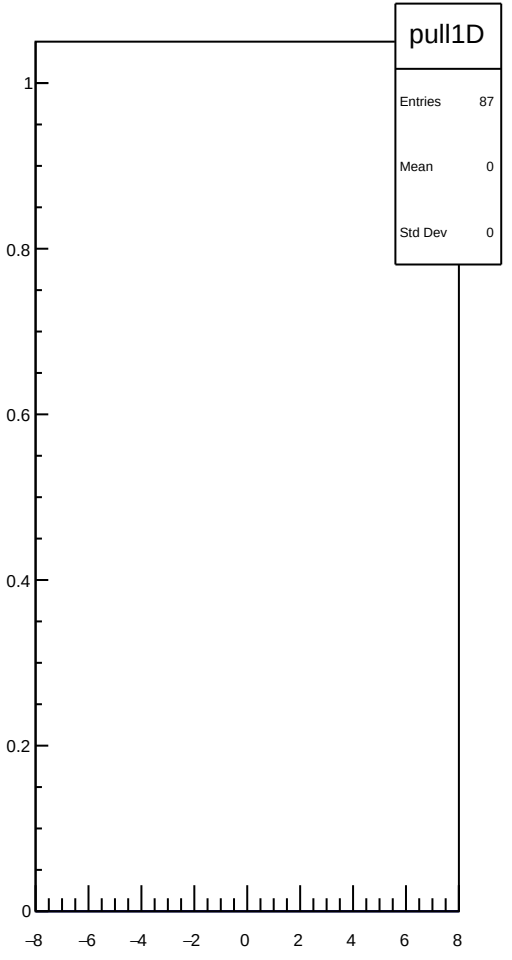

dit_sam5_coil3_mean vs run
χ² / ndf 2.142e+35 / 86
p0 −265.4 ± 1.072e−16
−150
−200
−250
−300
−350
pull
Entries 87
Mean −1.052e+09
Std Dev 1.052e+09
×10¹⁵
100
80
60
40
20
0
−20
−40
−60
−80

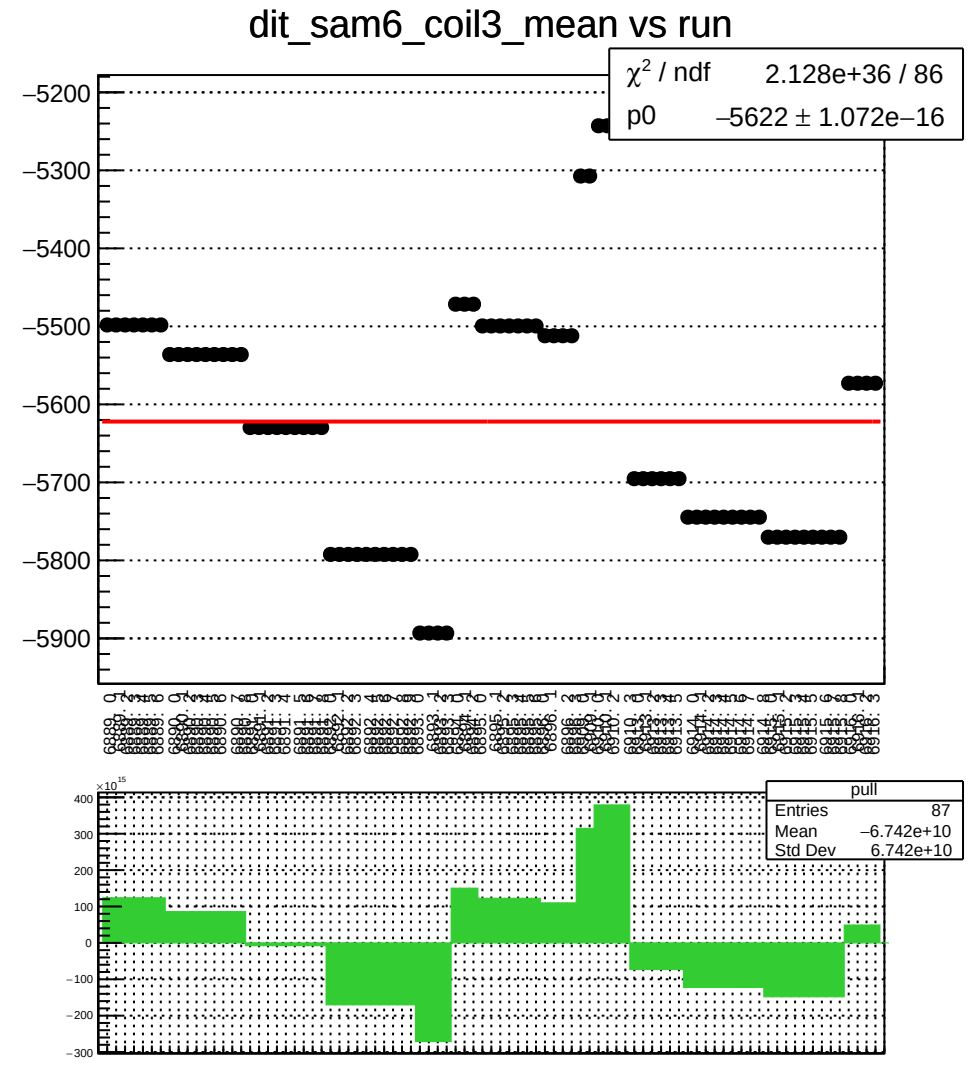

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

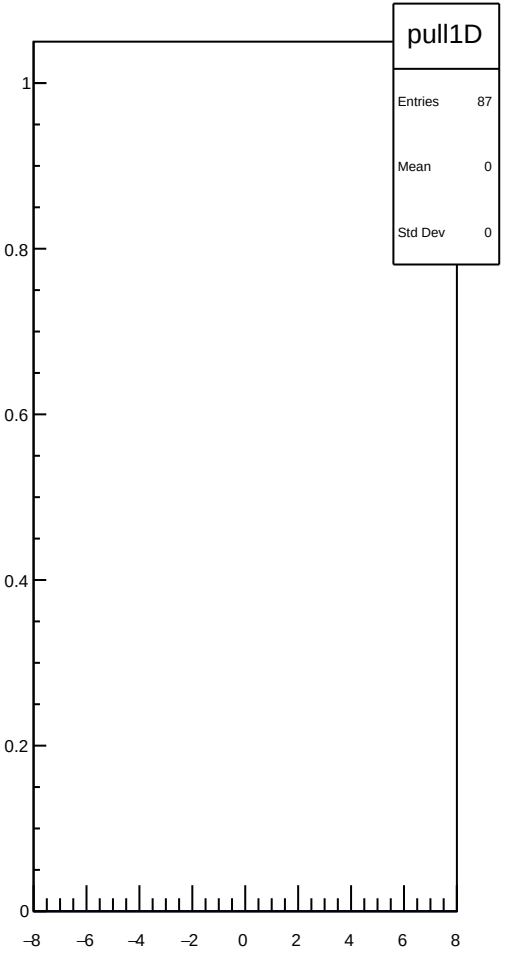

dit_sam5_coil3_err_mean vs run
χ² / ndf 1.497e+34 / 86
p0 52.52 ± 1.072e−16
90
80
70
60
50
40
×10¹⁵
30
20
10
0
−10
pull
Entries 87
Mean −4.371e+09
Std Dev 4.371e+09

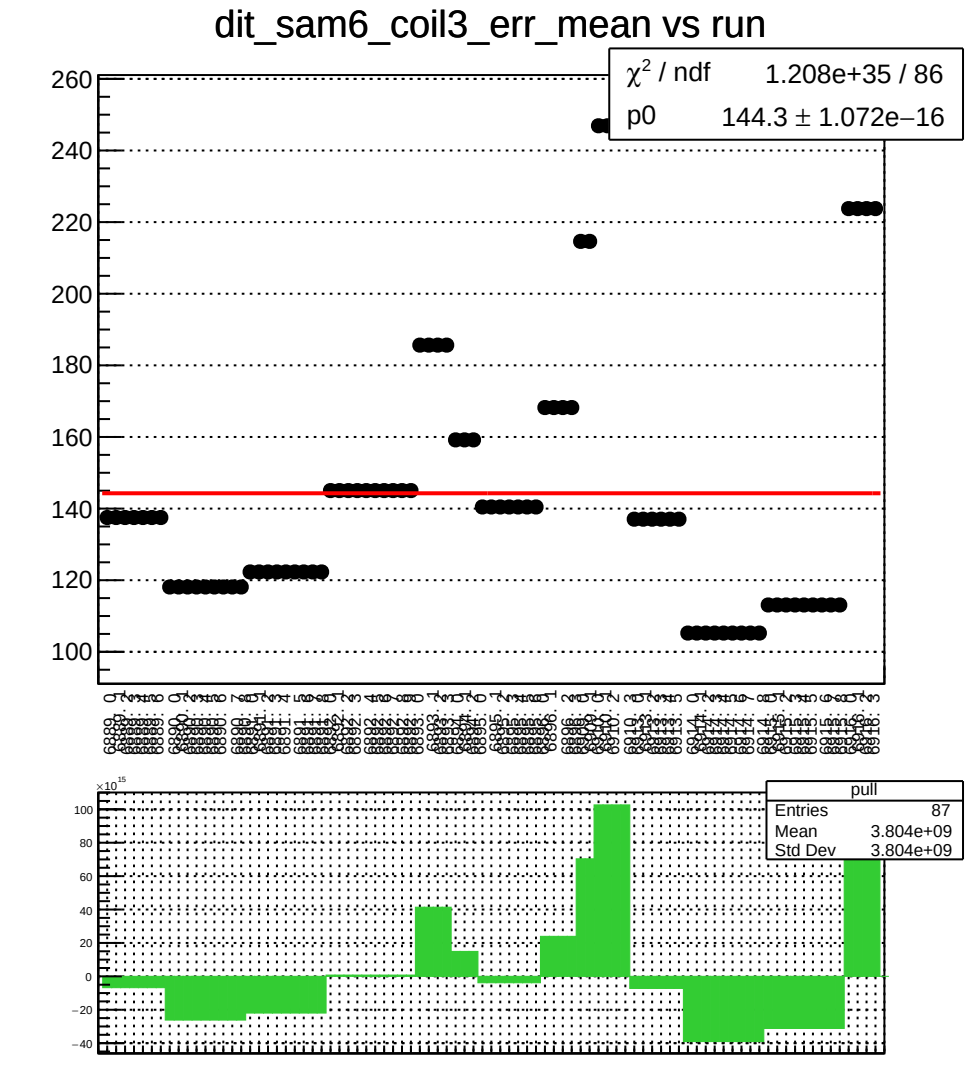

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

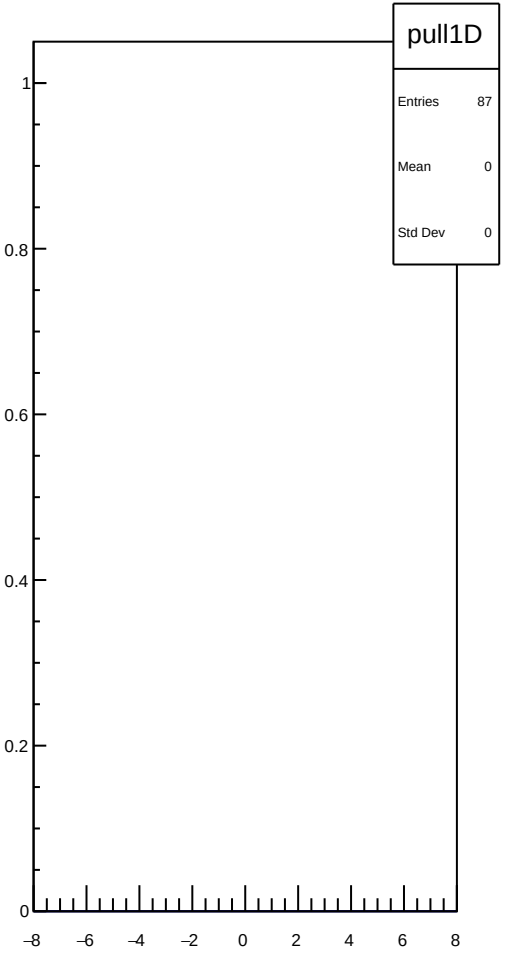

dit_sam5_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800

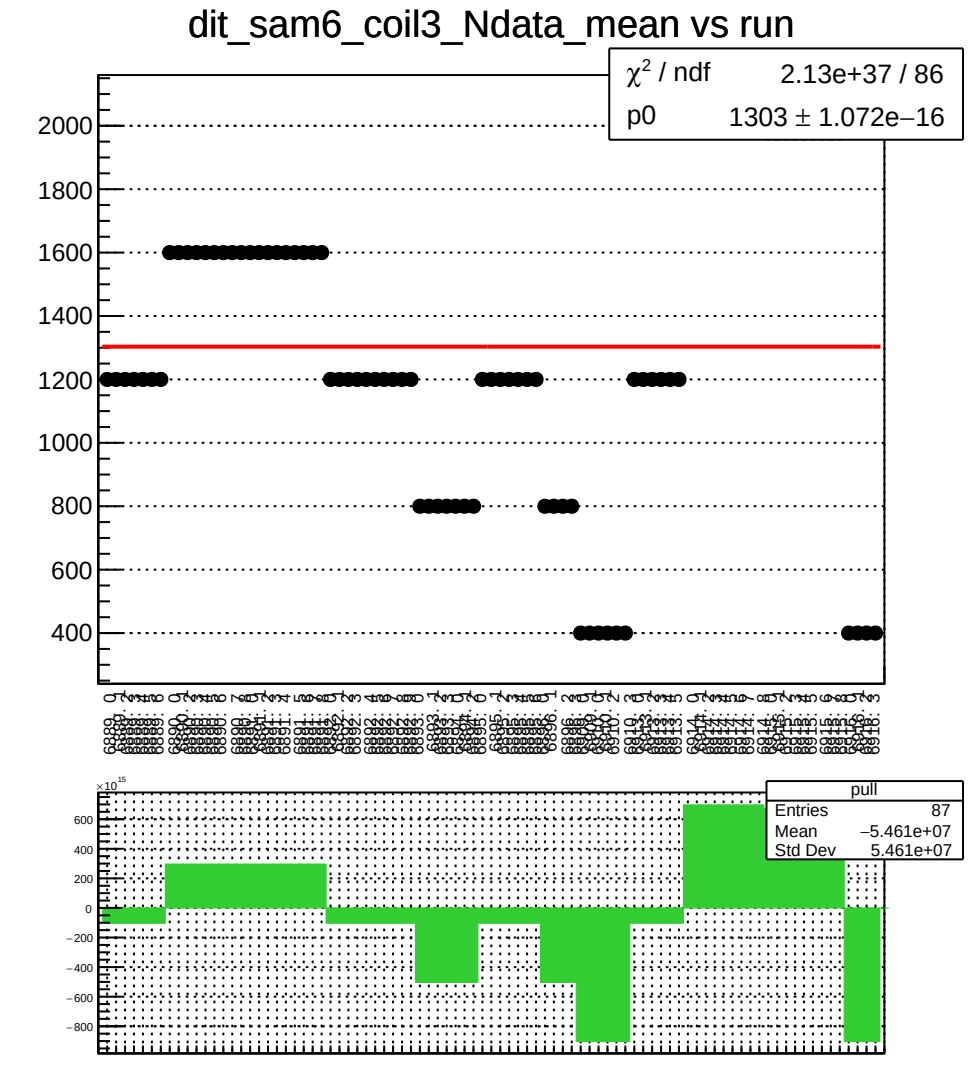

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

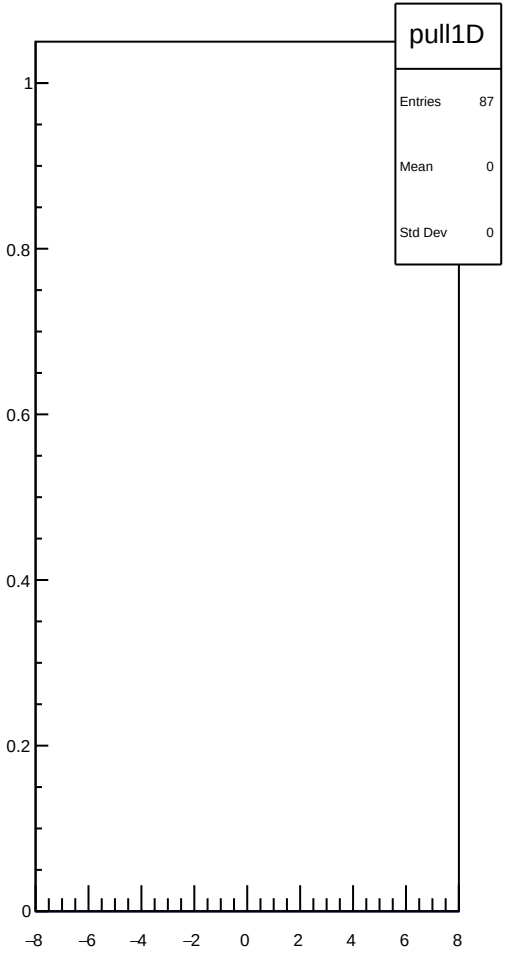

dit_sam6_coil3_mean vs run
χ² / ndf 2.128e+36 / 86
p0 −5622 ± 1.072e−16
−5200
−5300
−5400
−5500
−5600
−5700
−5800
−5900
pull
Entries 87
Mean −6.742e+10
Std Dev 6.742e+10
×10¹⁵
400
300
200
100
0
−100
−200
−300

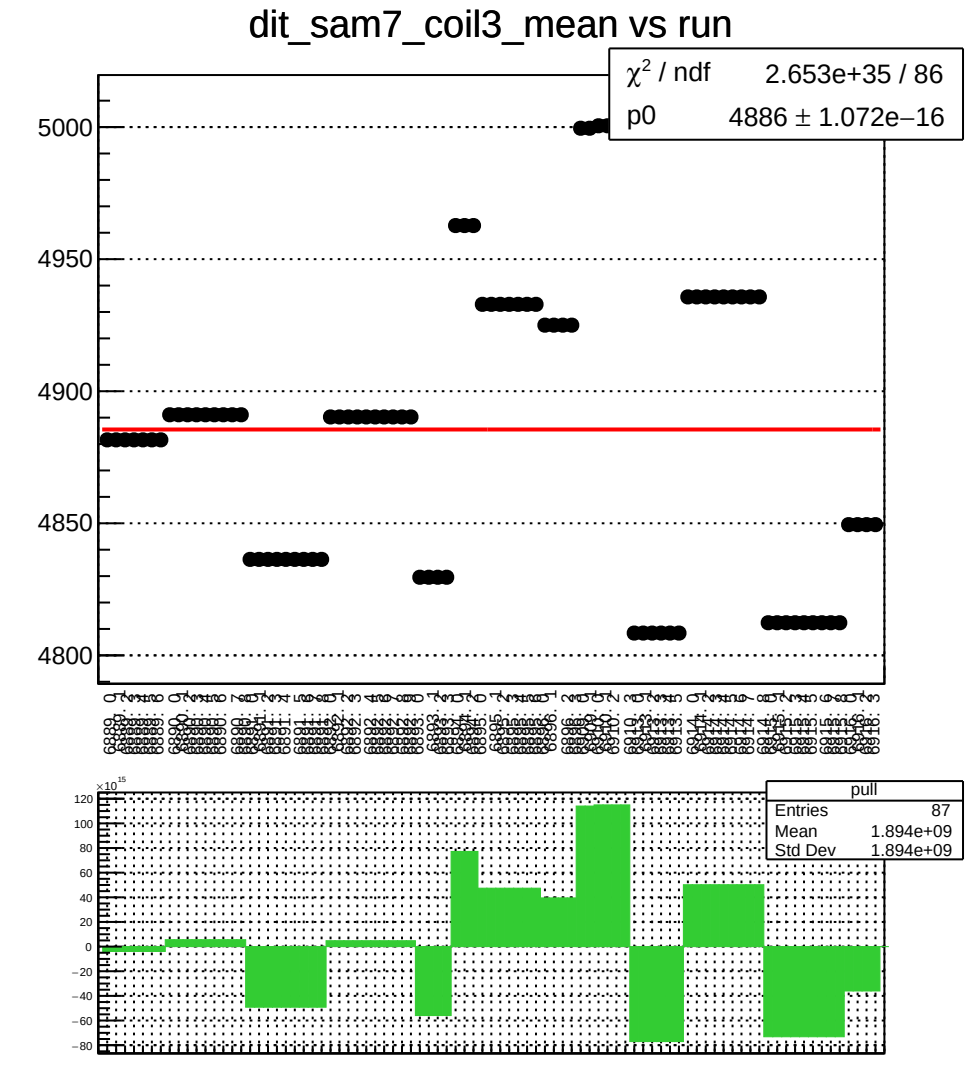

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

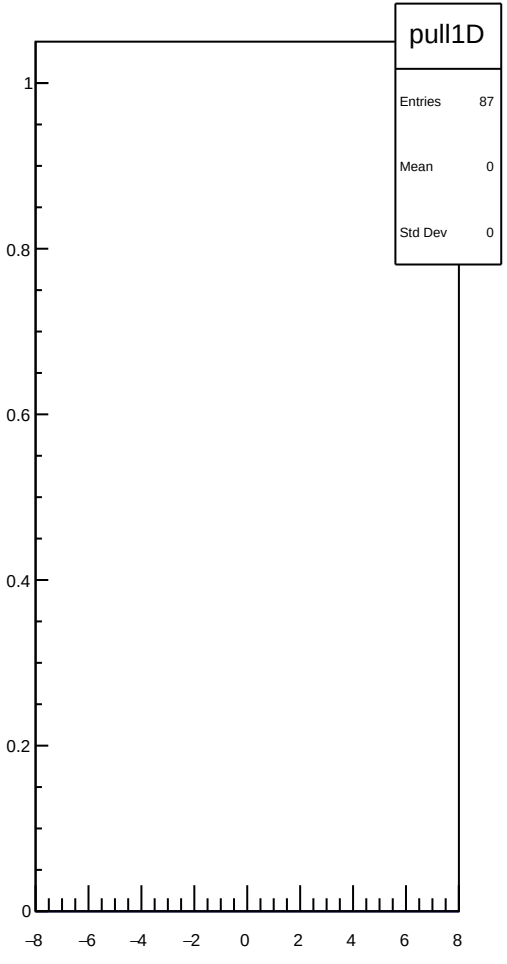

dit_sam6_coil3_err_mean vs run
χ² / ndf 1.208e+35 / 86
p0 144.3 ± 1.072e−16
pull
Entries 87
Mean 3.804e+09
Std Dev 3.804e+09

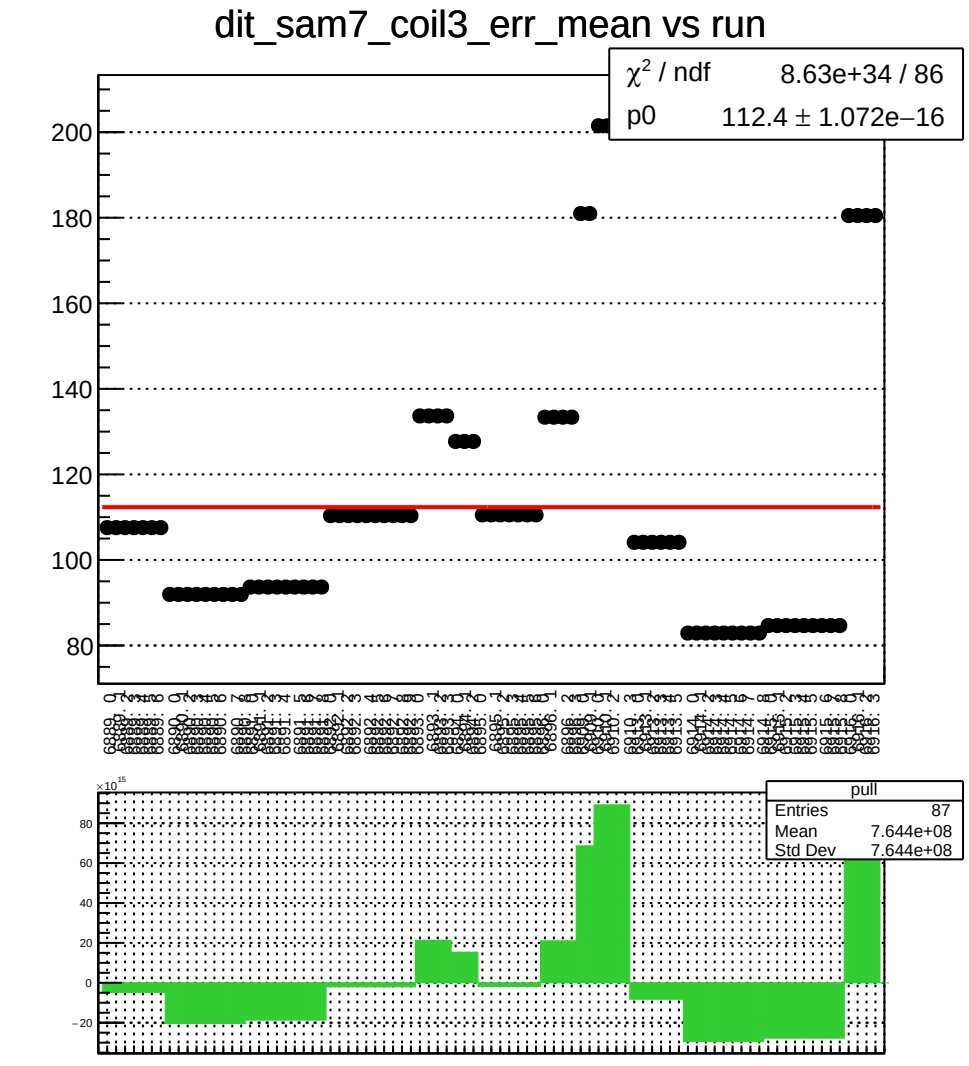

pull1D
Entries 87
Mean 0
Std Dev 0

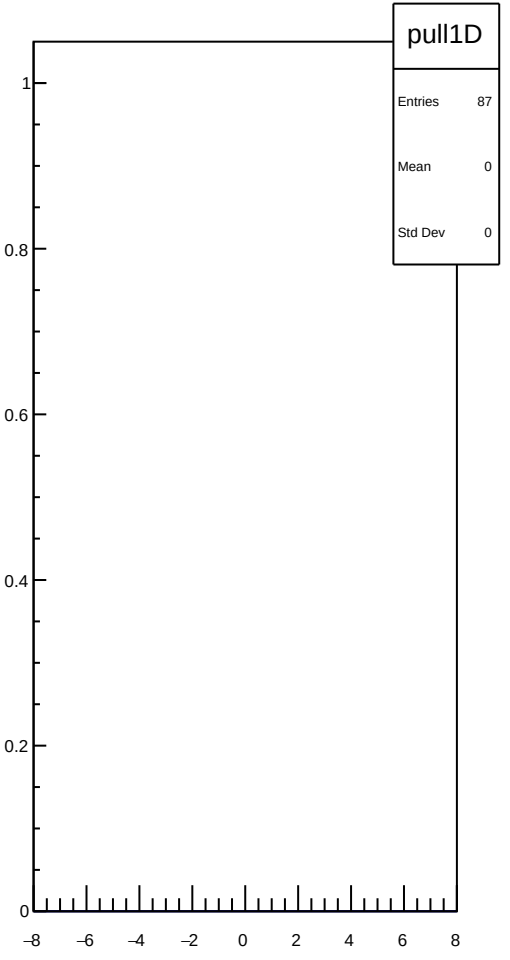

dit_sam6_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800

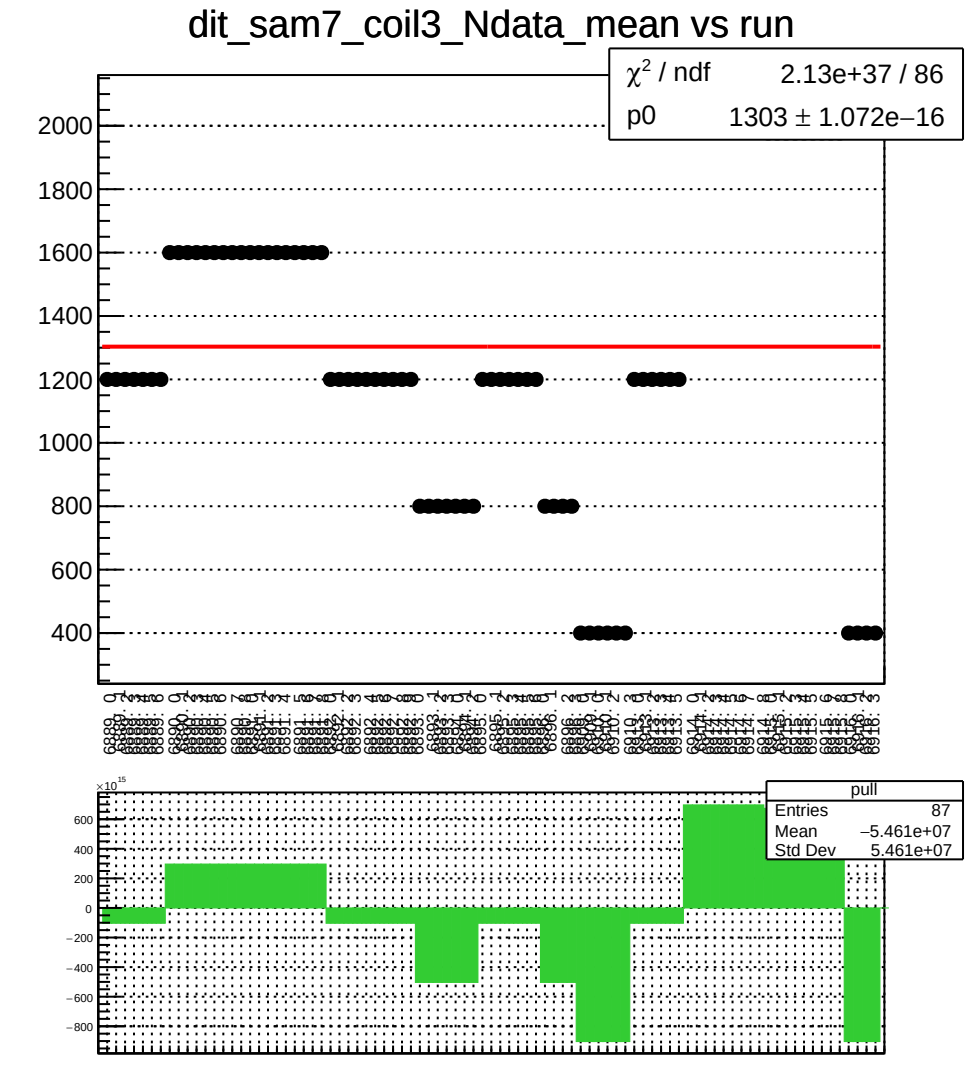

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

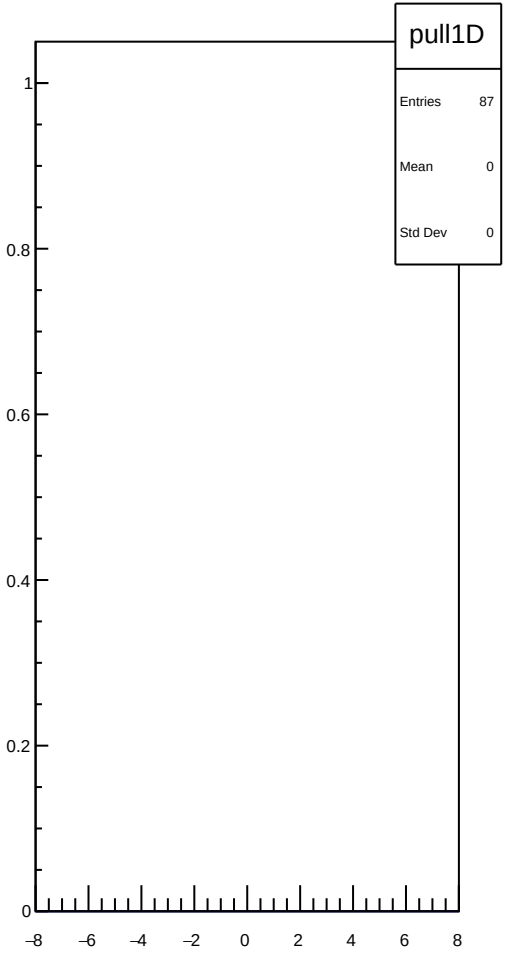

dit_sam7_coil3_mean vs run
χ² / ndf 2.653e+35 / 86
p0 4886 ± 1.072e−16
5000
4950
4900
4850
4800
pull
Entries 87
Mean 1.894e+09
Std Dev 1.894e+09
×10¹⁵
120
100
80
60
40
20
0
−20
−40
−60
−80

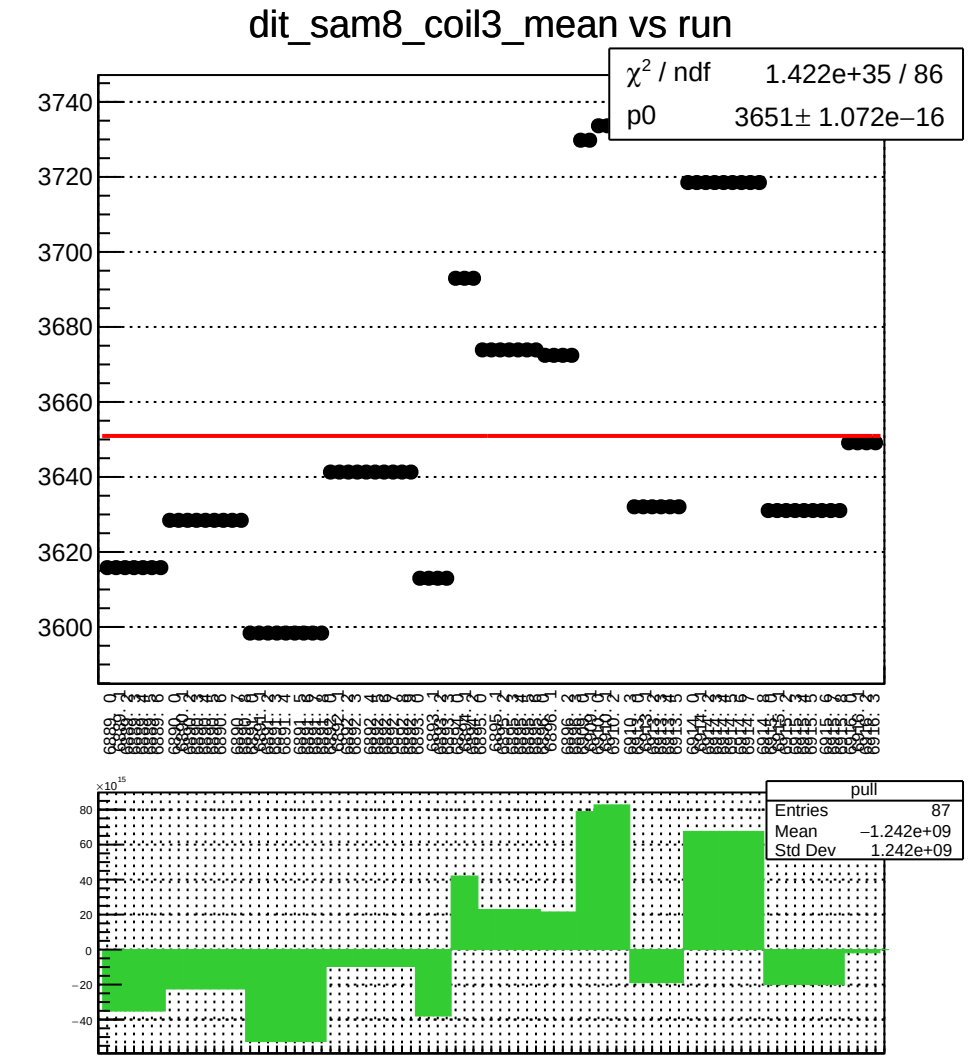

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

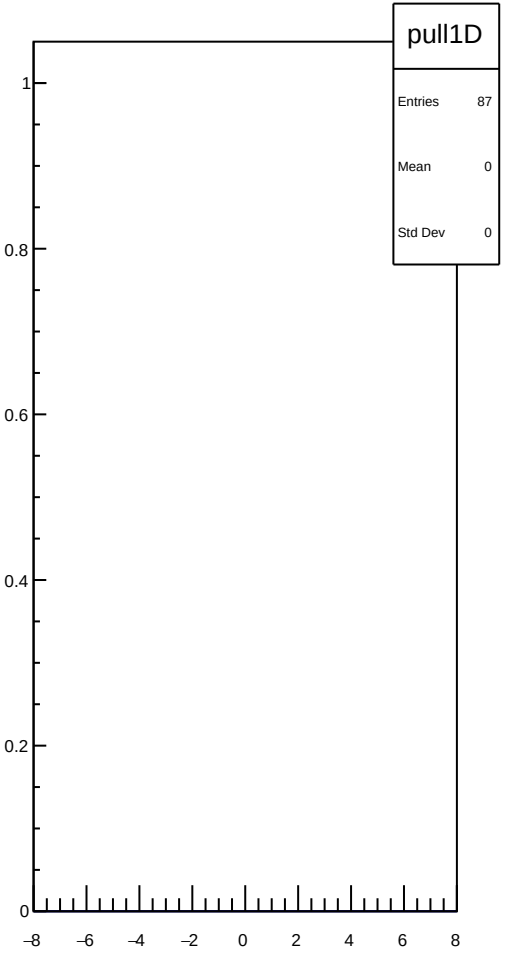

dit_sam7_coil3_err_mean vs run
χ² / ndf 8.63e+34 / 86
p0 112.4 ± 1.072e−16
200
180
160
140
120
100
80
×10¹⁵
80
60
40
20
0
−20
pull
Entries 87
Mean 7.644e+08
Std Dev 7.644e+08

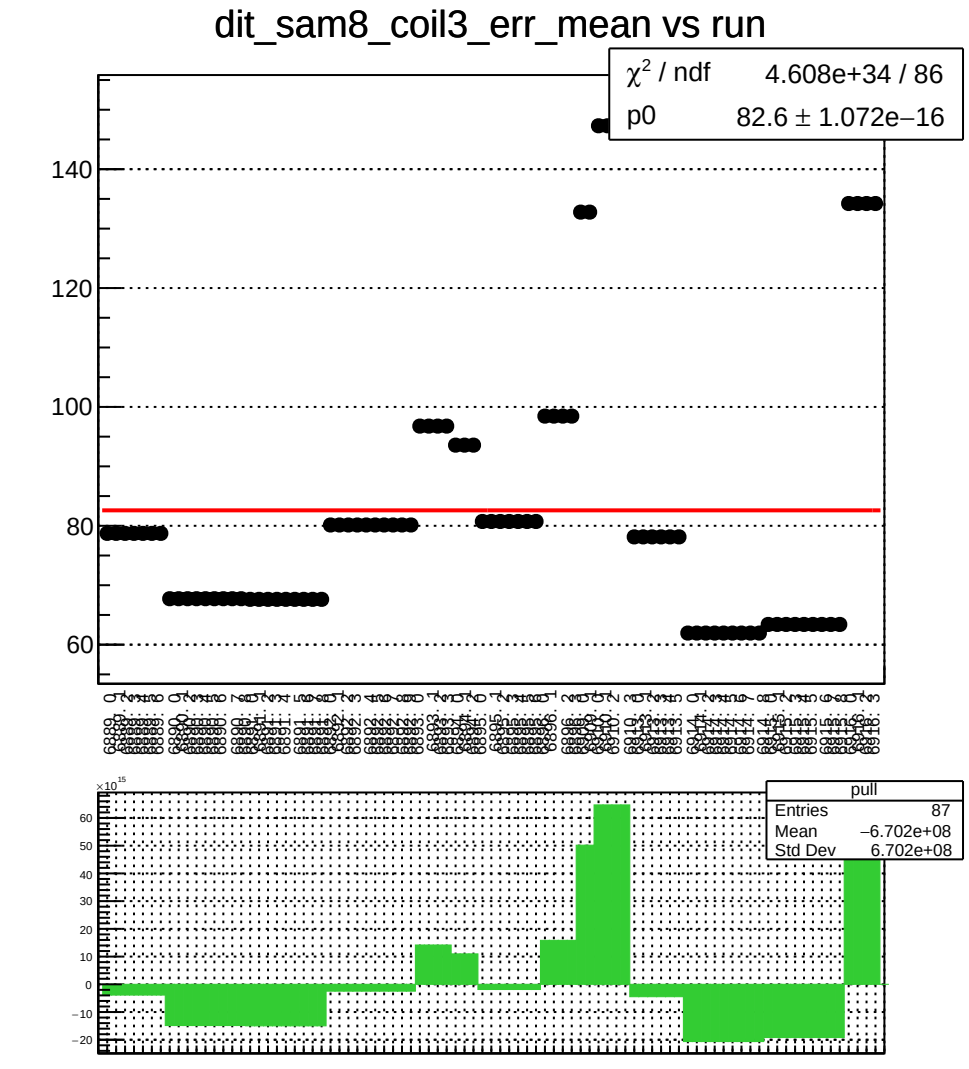

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

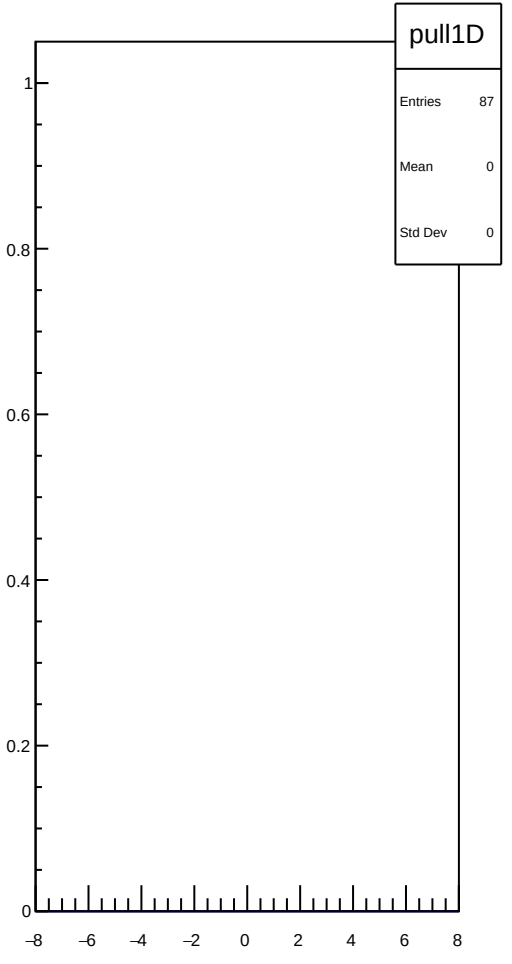

dit_sam7_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800

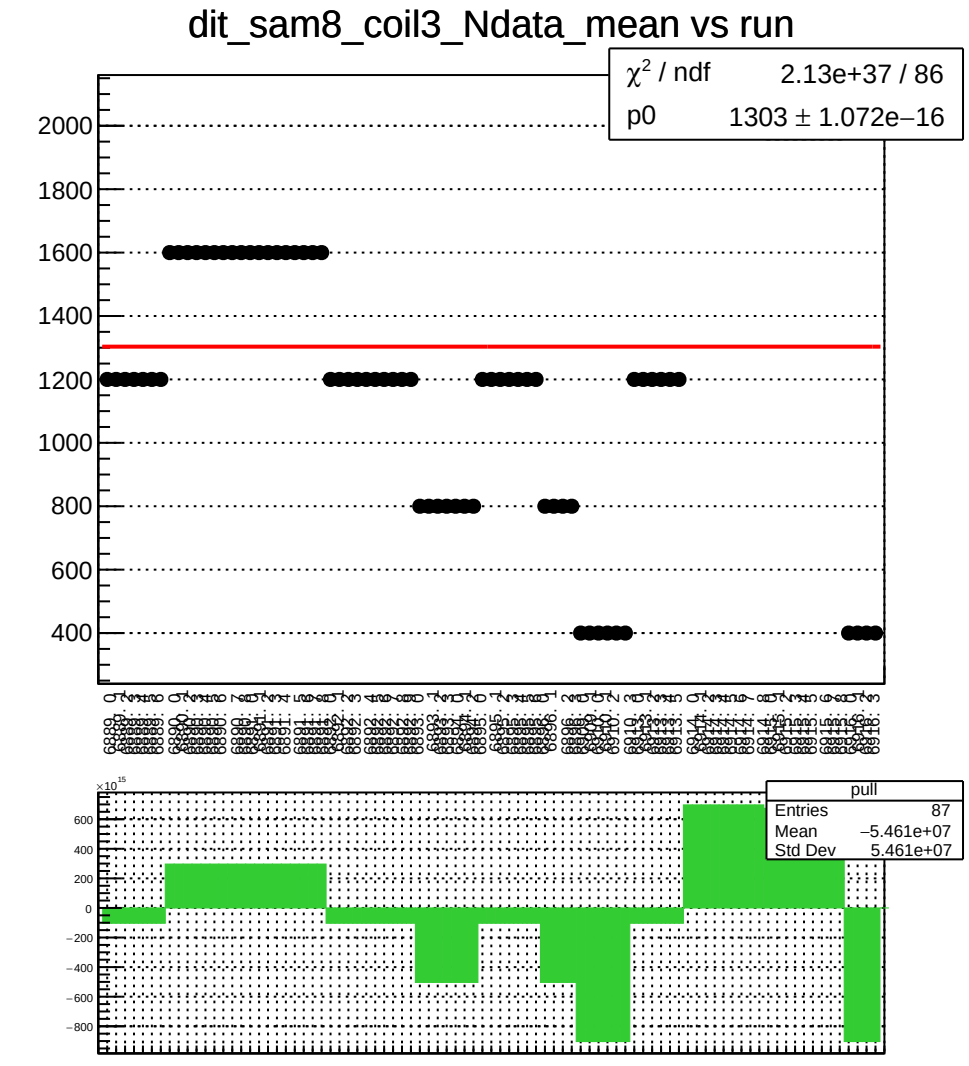

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

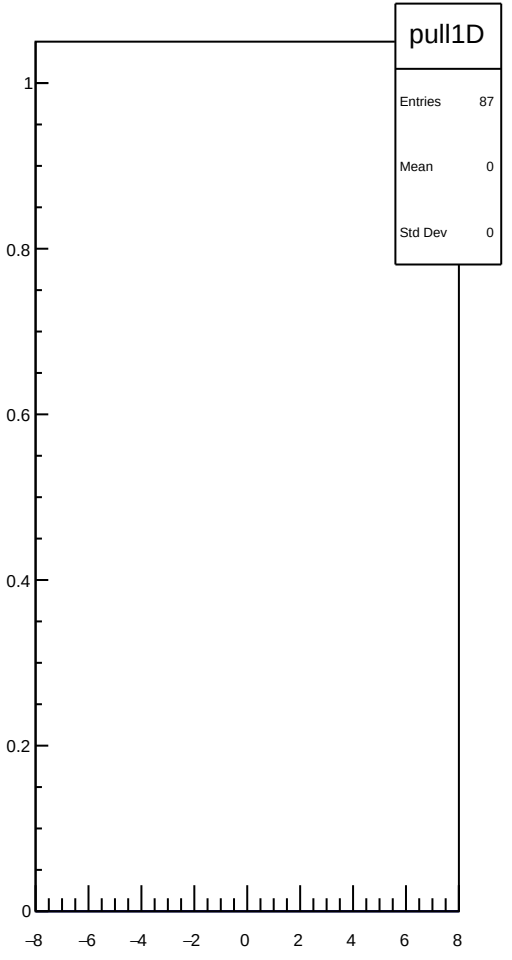

dit_sam8_coil3_mean vs run
χ² / ndf 1.422e+35 / 86
p0 3651± 1.072e−16
3740
3720
3700
3680
3660
3640
3620
3600
pull
Entries 87
Mean −1.242e+09
Std Dev 1.242e+09
×10¹⁵
80
60
40
20
0
−20
−40

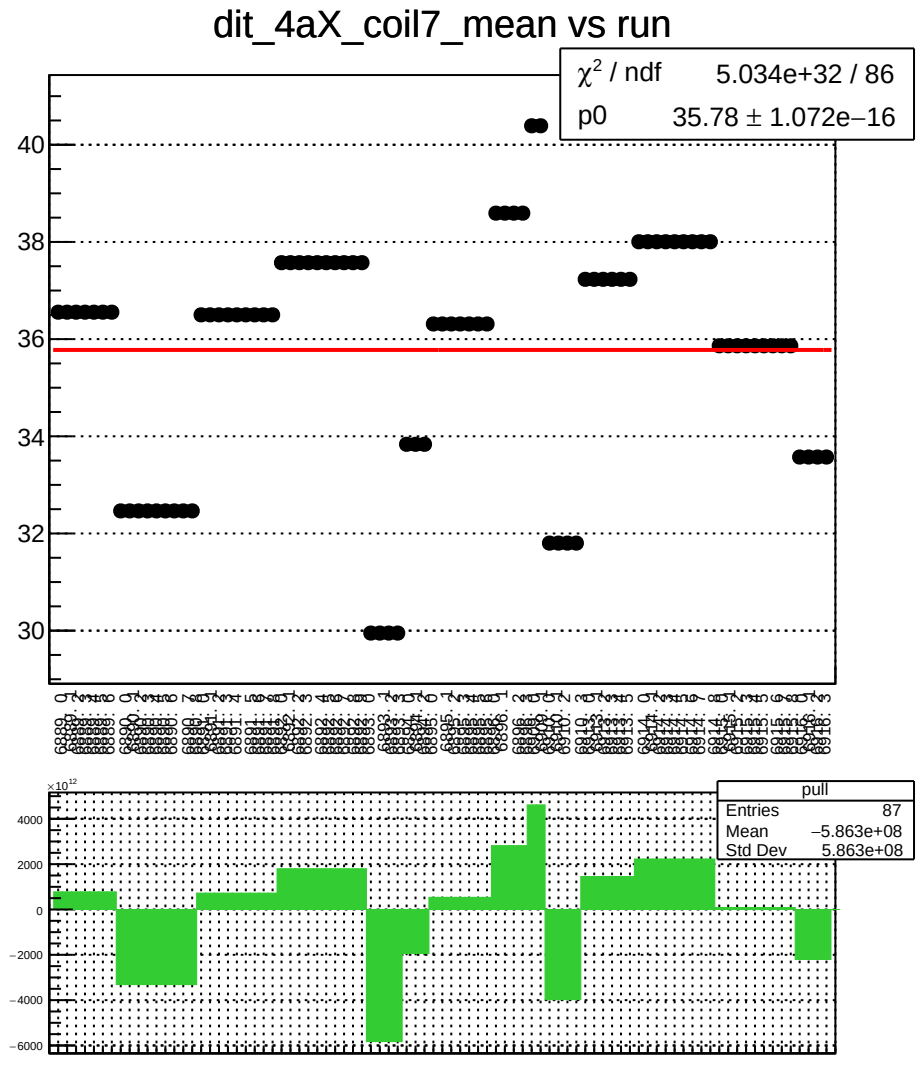

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

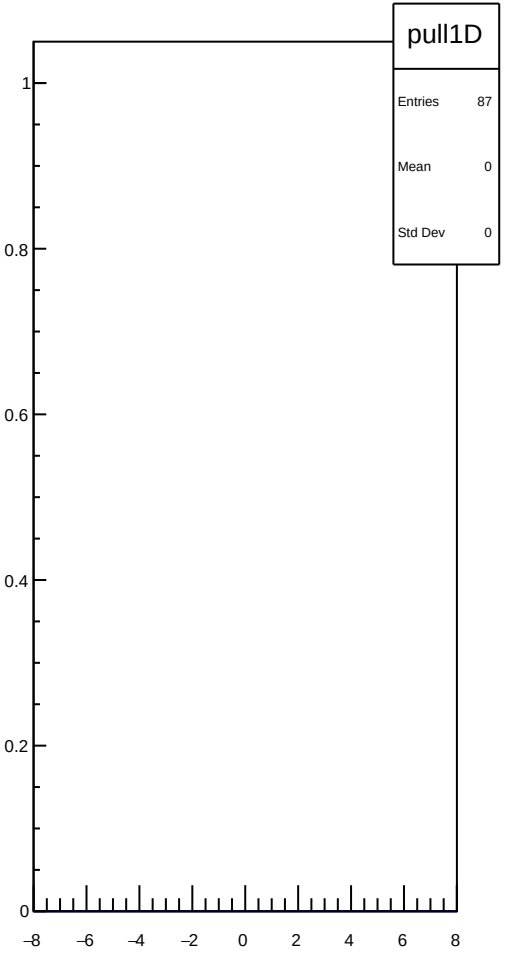

dit_sam8_coil3_err_mean vs run
χ² / ndf 4.608e+34 / 86
p0 82.6 ± 1.072e−16
140
120
100
80
60
pull
Entries 87
Mean −6.702e+08
Std Dev 6.702e+08
×10¹⁵
60
50
40
30
20
10
0
−10
−20

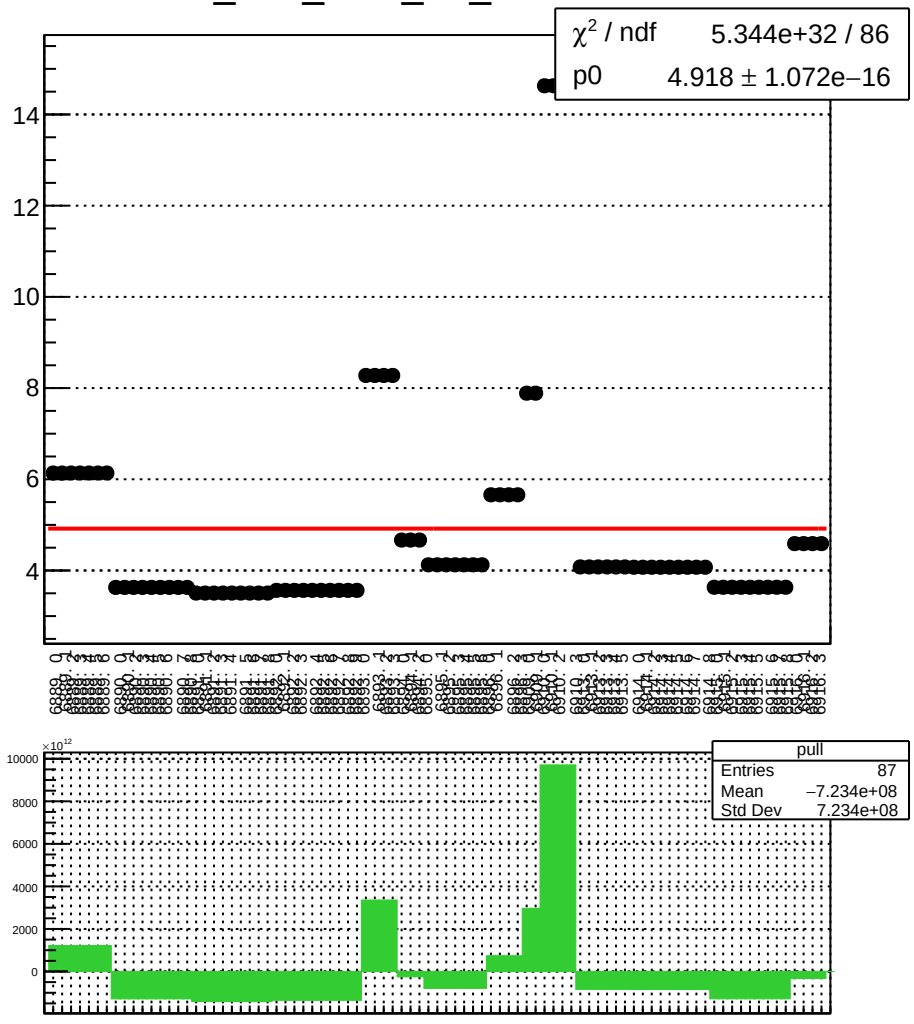

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

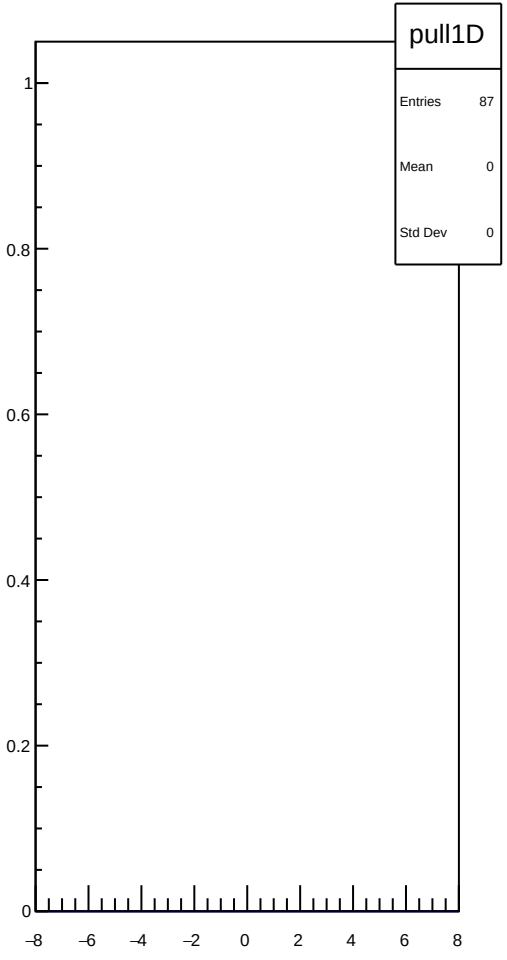

dit_sam8_coil3_Ndata_mean vs run
χ² / ndf 2.13e+37 / 86
p0 1303 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −5.461e+07
Std Dev 5.461e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800

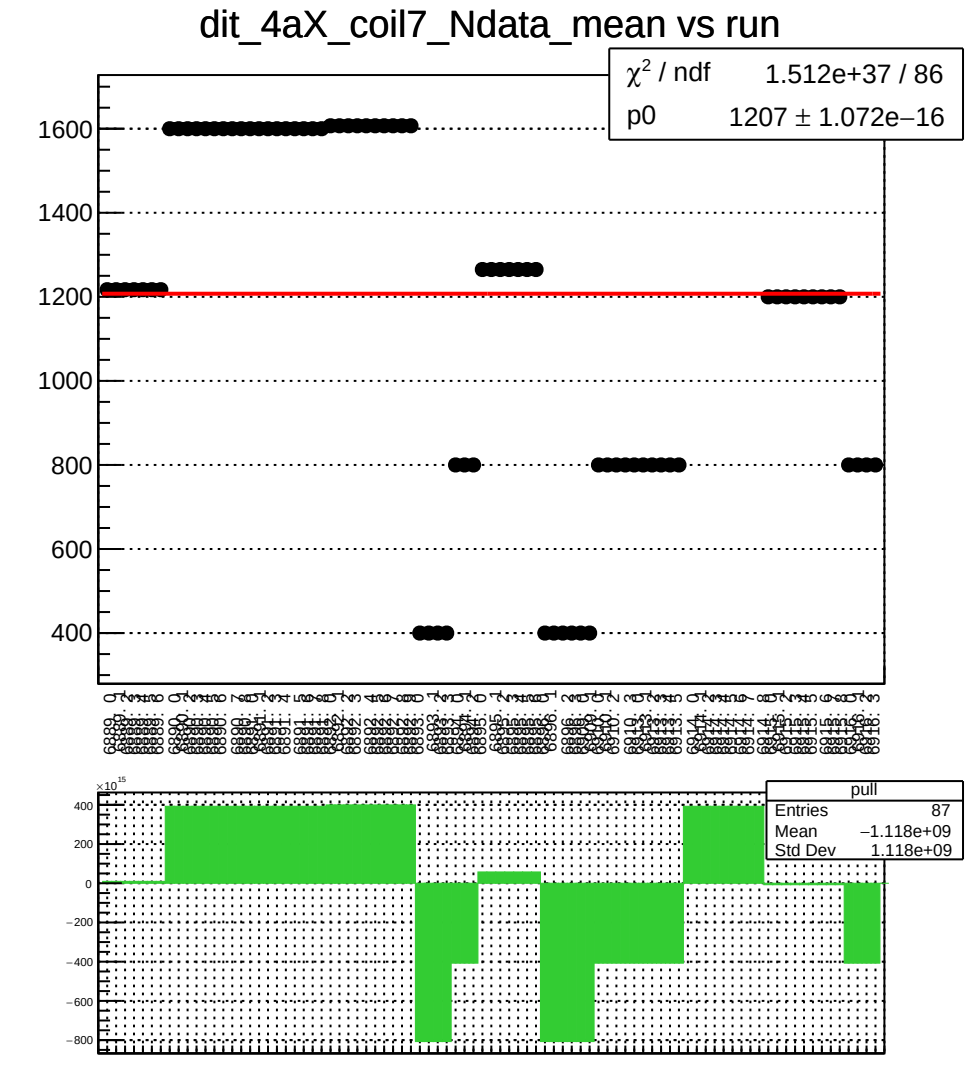

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

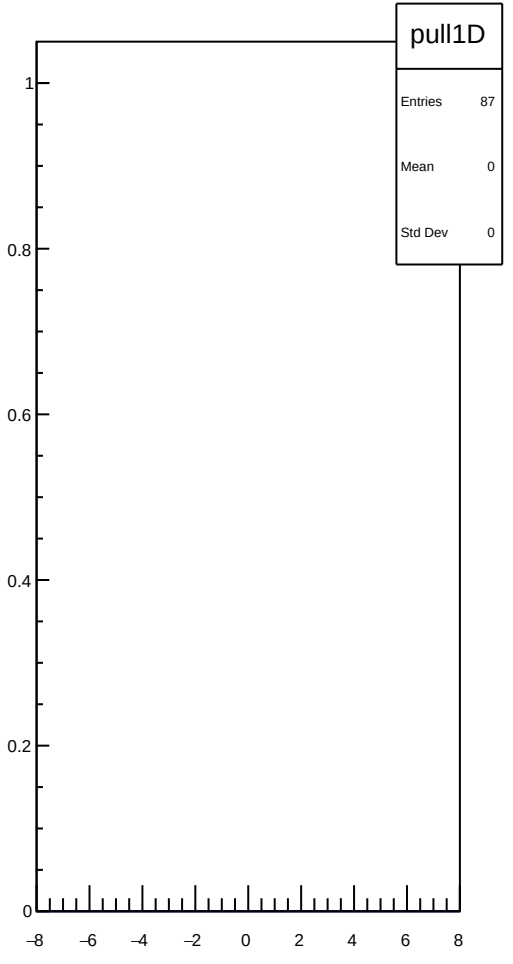

dit_4aX_coil7_mean vs run
χ² / ndf 5.034e+32 / 86
p0 35.78 ± 1.072e−16
40
38
36
34
32
30
pull
Entries 87
Mean −5.863e+08
Std Dev 5.863e+08
×10¹²
4000
2000
0
−2000
−4000
−6000

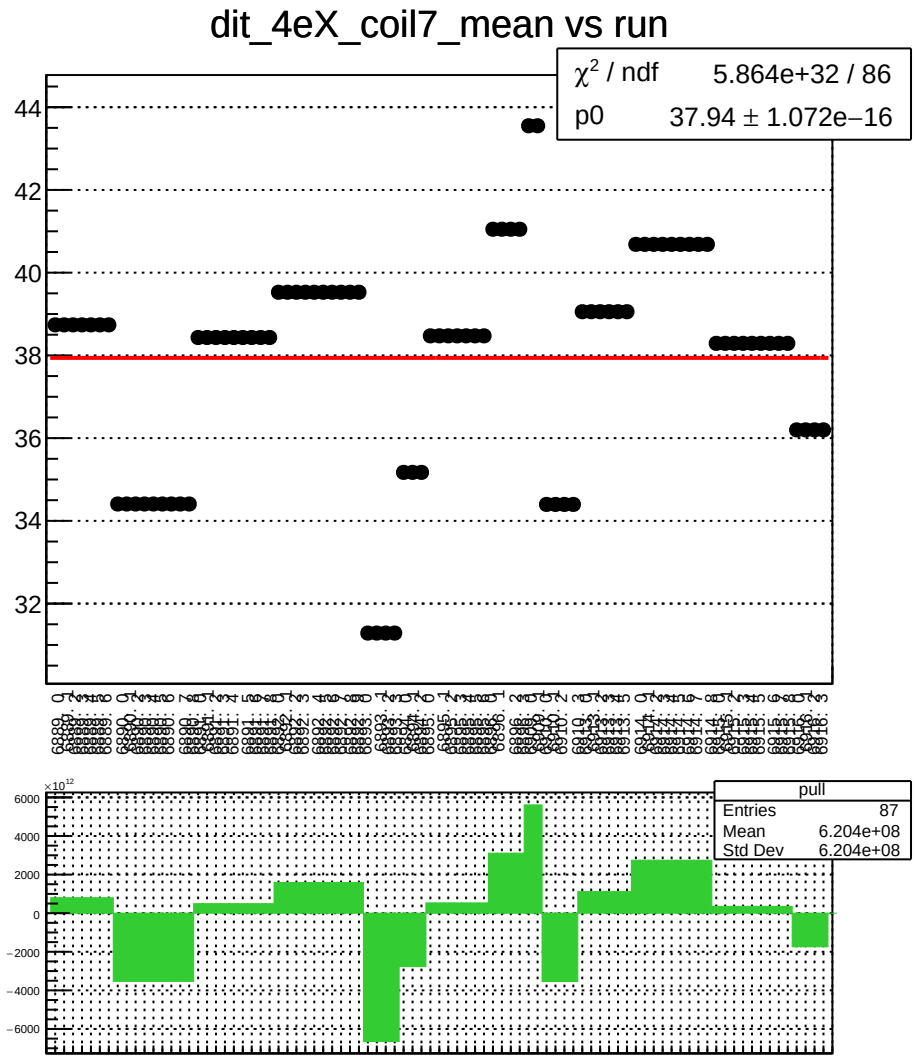

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

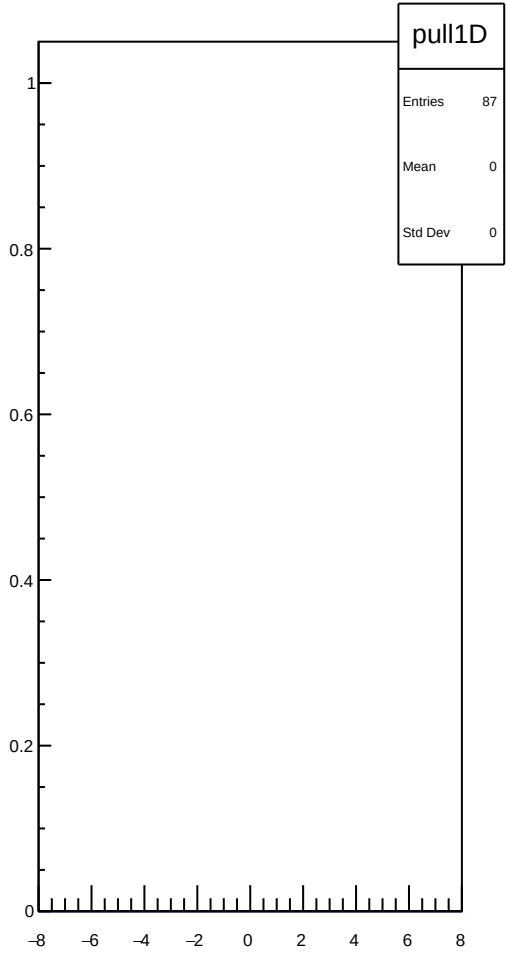

dit_4aX_coil7_err_mean vs run
χ² / ndf 5.344e+32 / 86
p0 4.918 ± 1.072e−16
14
12
10
8
6
4
×10¹²
10000
8000
6000
4000
2000
0
pull
Entries 87
Mean −7.234e+08
Std Dev 7.234e+08

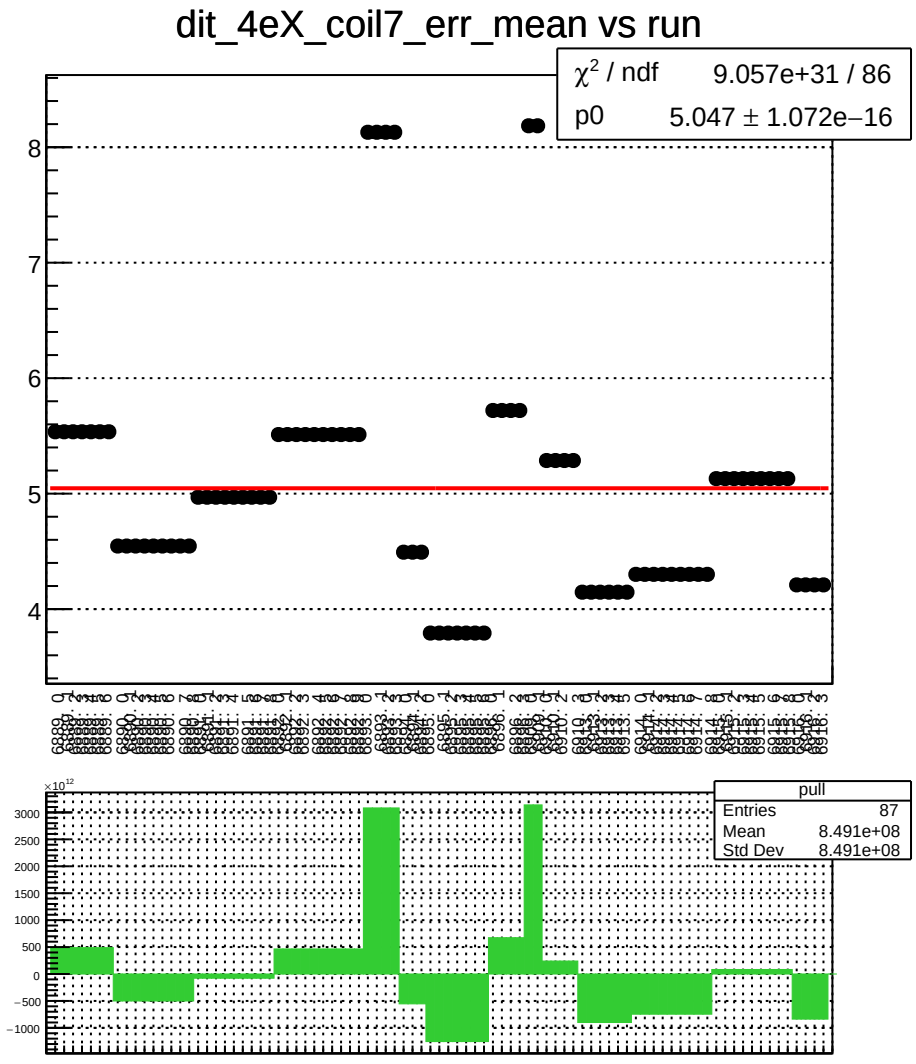

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

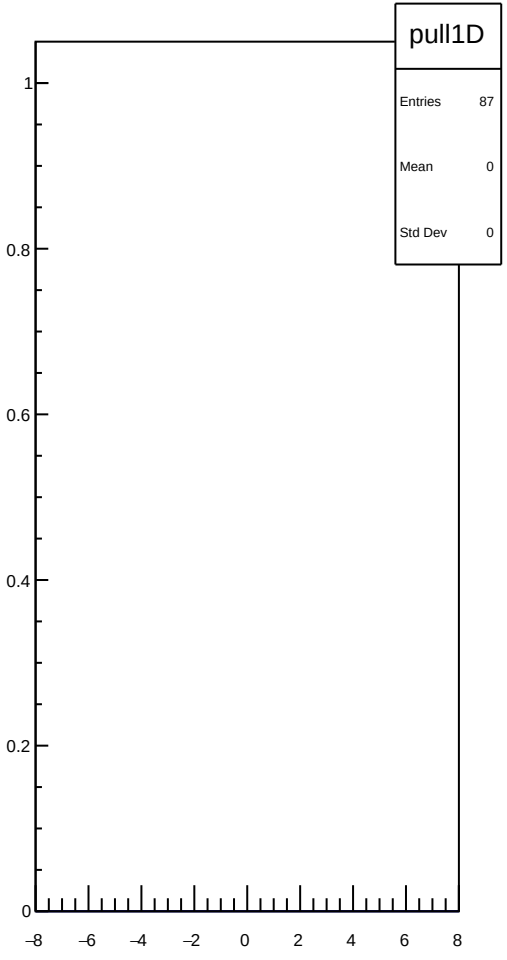

dit_4aX_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09

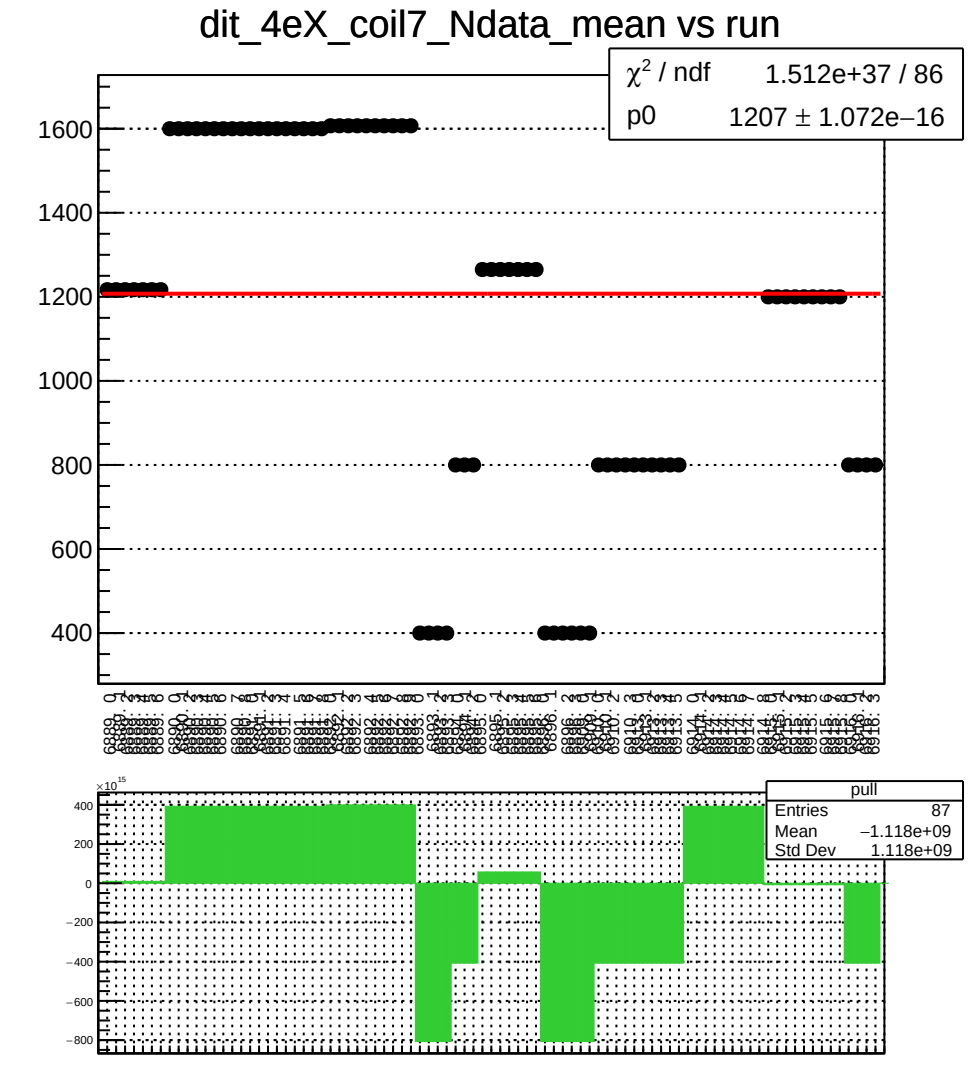

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

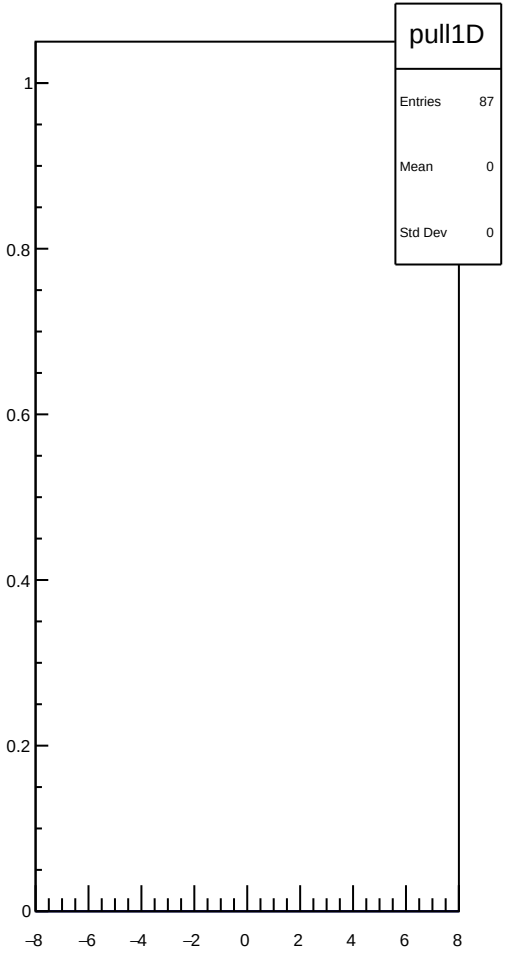

dit_4eX_coil7_mean vs run
χ² / ndf 5.864e+32 / 86
p0 37.94 ± 1.072e−16
44
42
40
38
36
34
32
pull
Entries 87
Mean 6.204e+08
Std Dev 6.204e+08
×10¹²
6000
4000
2000
0
−2000
−4000
−6000

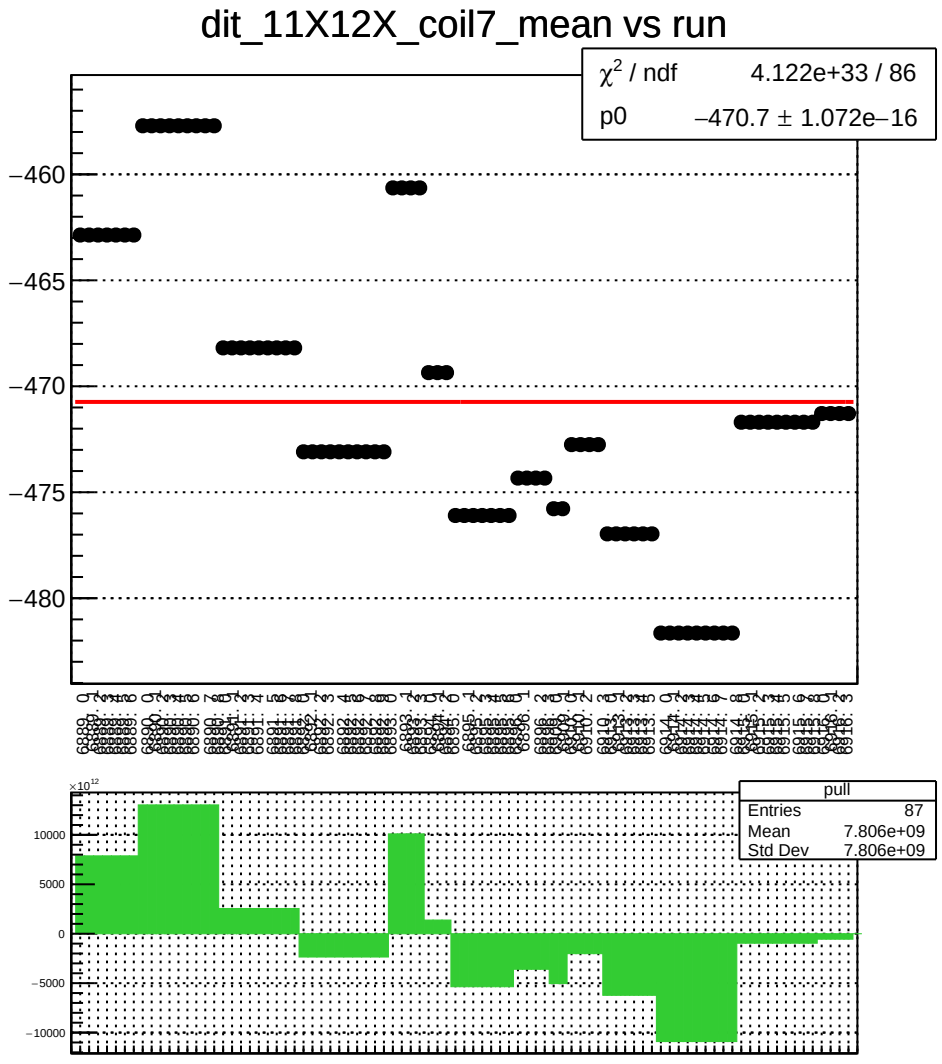

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

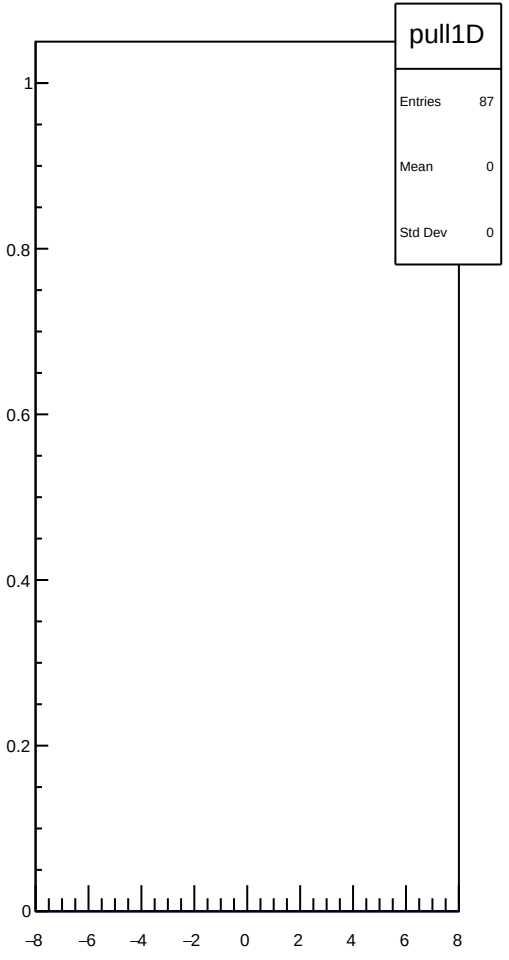

dit_4eX_coil7_err_mean vs run
χ² / ndf 9.057e+31 / 86
p0 5.047 ± 1.072e−16
pull
Entries 87
Mean 8.491e+08
Std Dev 8.491e+08

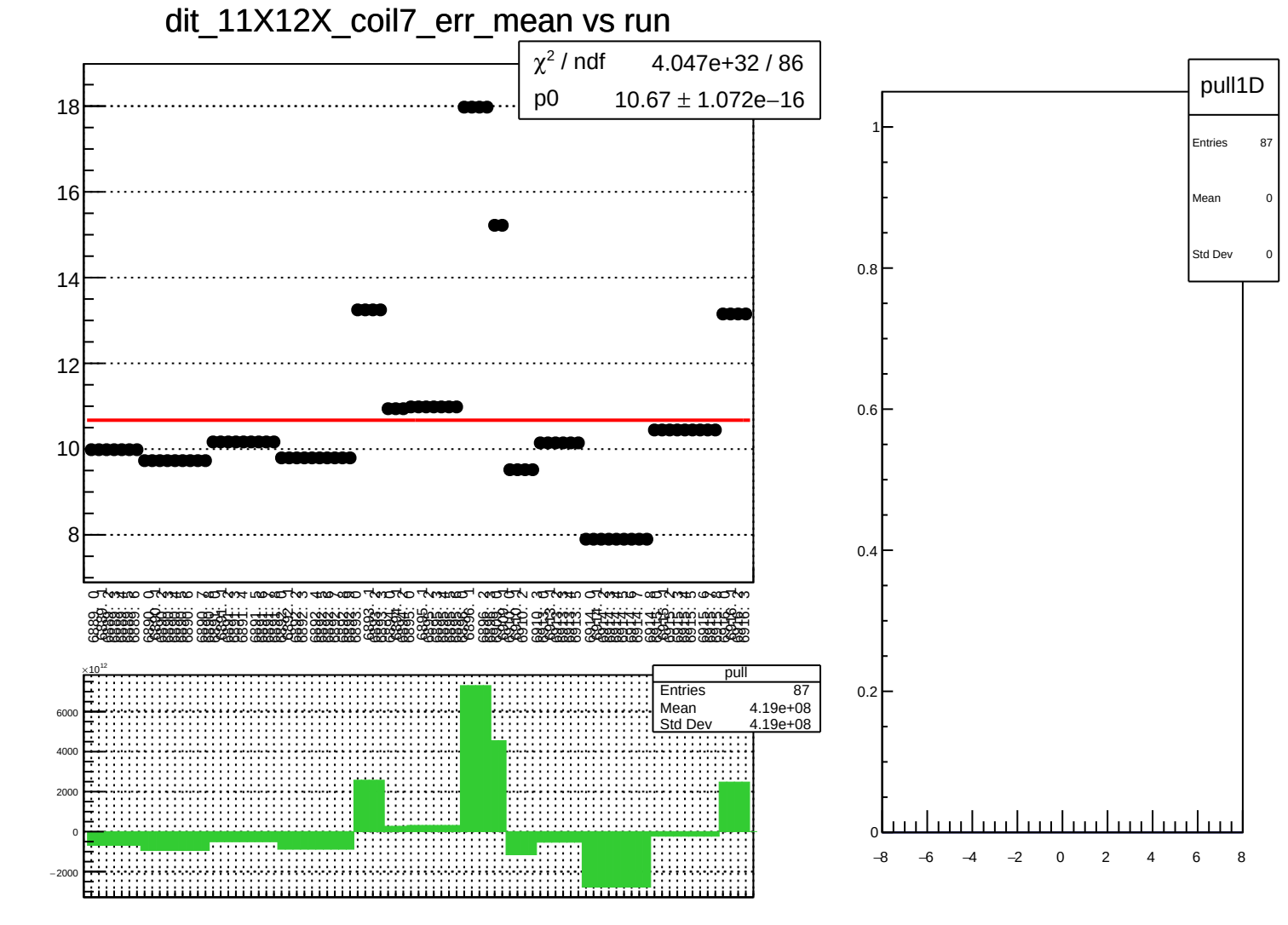

pull1D
Entries 87
Mean 0
Std Dev 0

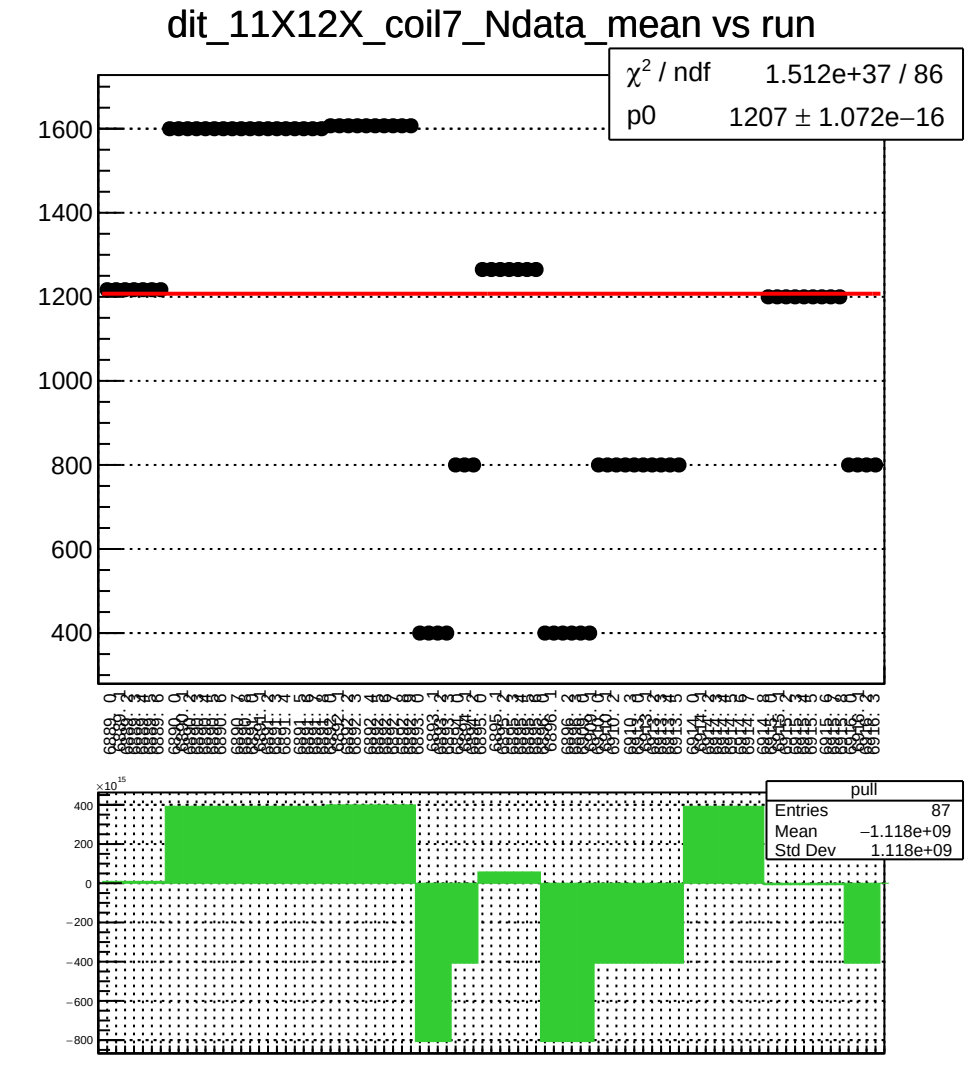

dit_4eX_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09

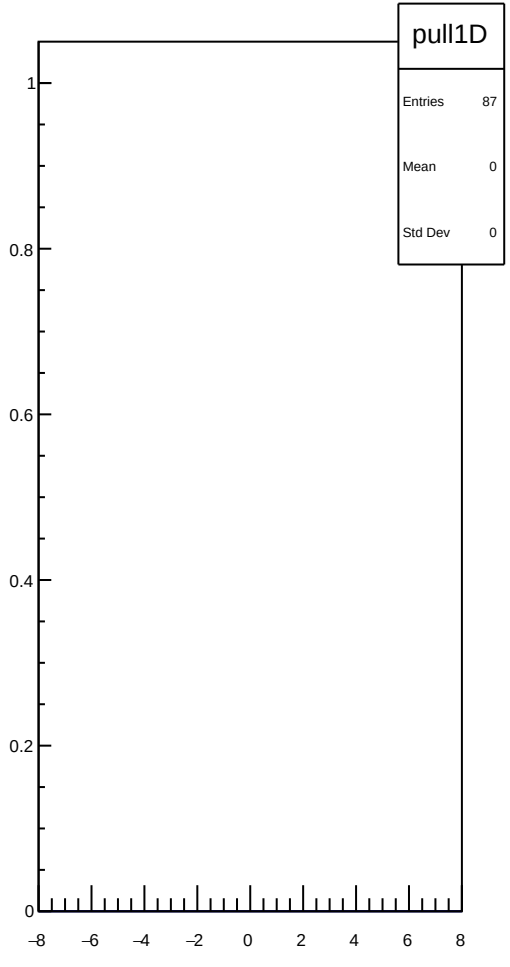

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

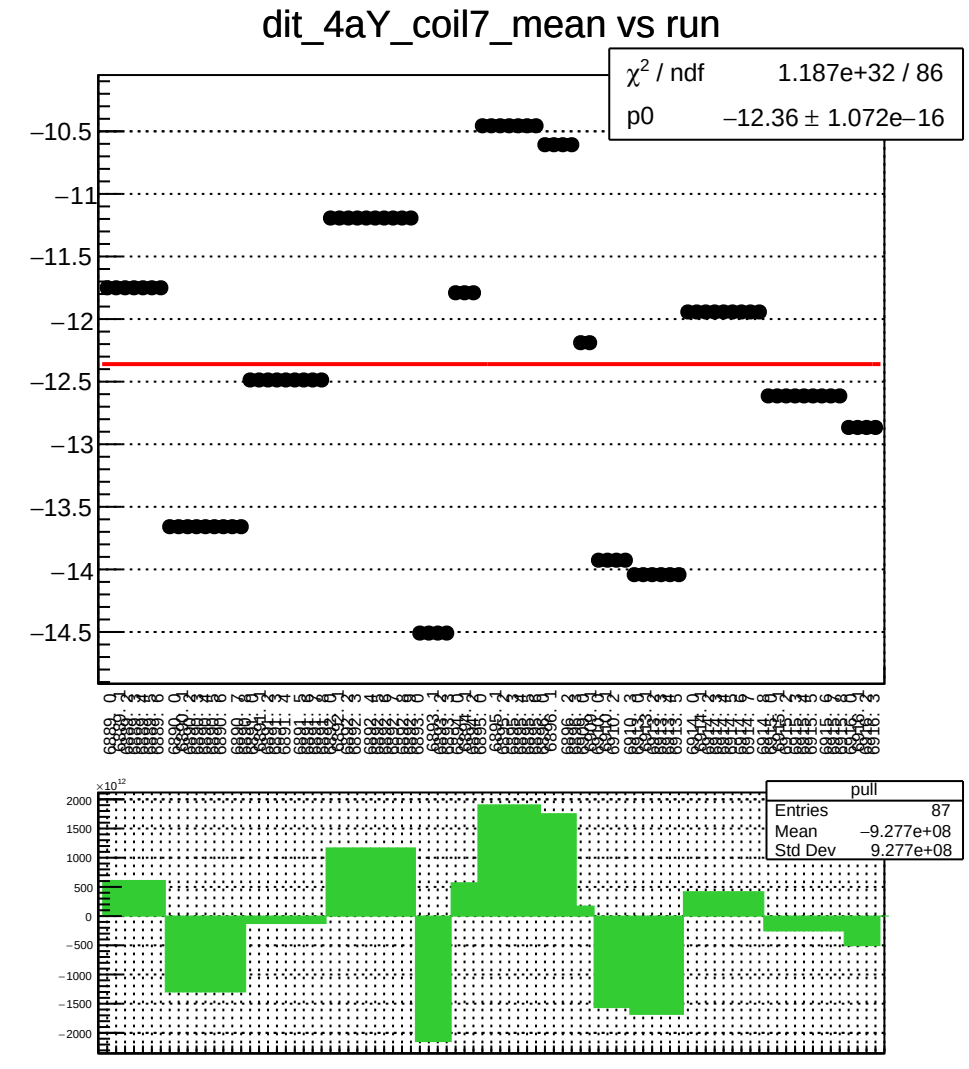

dit_11X12X_coil7_mean vs run
χ² / ndf 4.122e+33 / 86
p0 −470.7 ± 1.072e−16
−460
−465
−470
−475
−480
pull
Entries 87
Mean 7.806e+09
Std Dev 7.806e+09
×10¹²
10000
5000
0
−5000
−10000

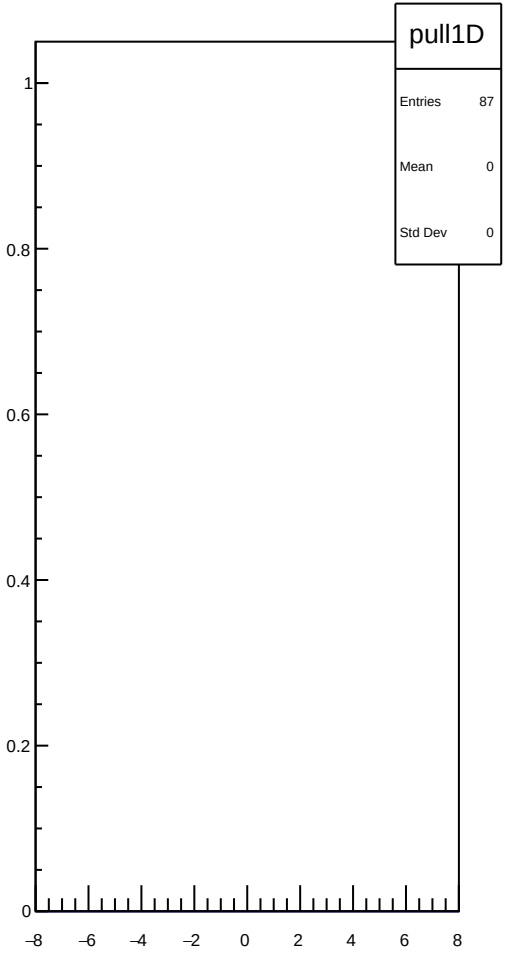

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

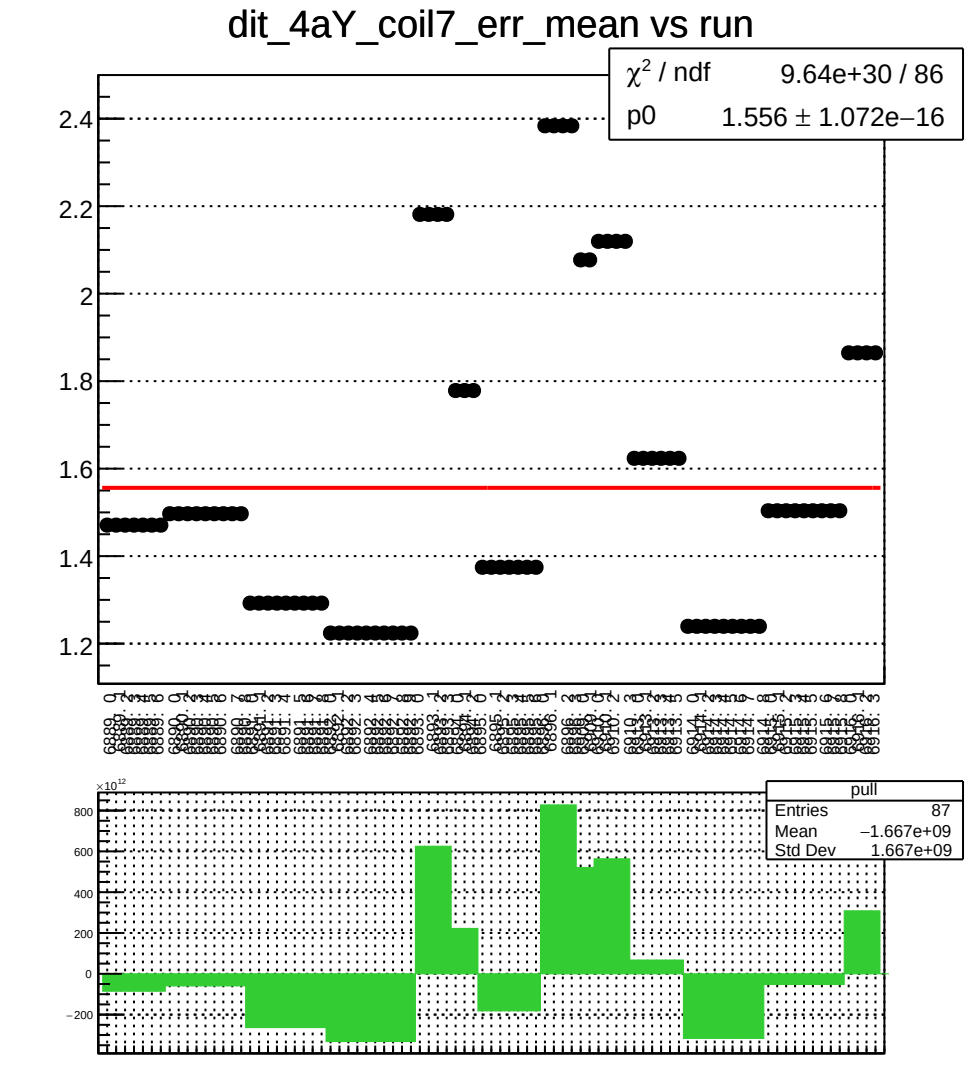

dit_11X12X_coil7_err_mean vs run
χ² / ndf 4.047e+32 / 86
p0 10.67 ± 1.072e−16
18
16
14
12
10
8
pull
Entries 87
Mean 4.19e+08
Std Dev 4.19e+08
×10¹²
6000
4000
2000
0
−2000
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

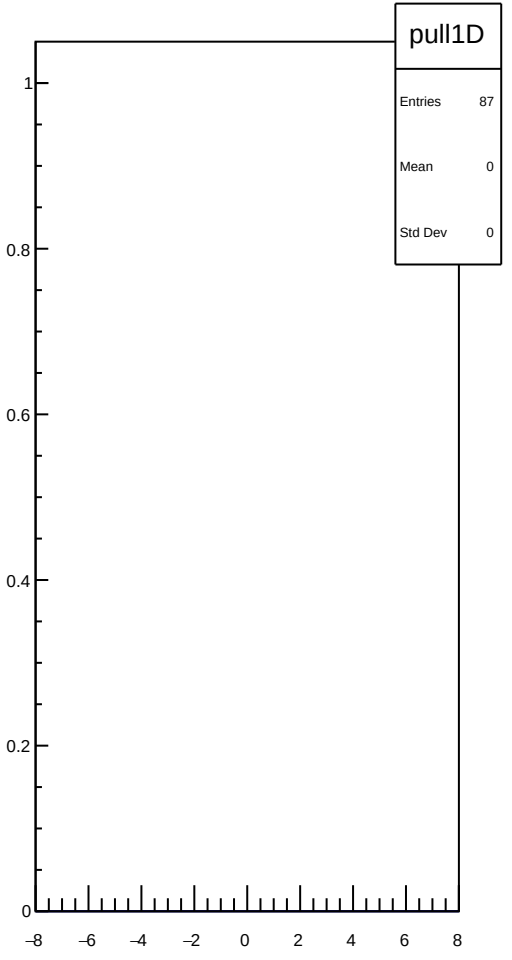

dit_11X12X_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09

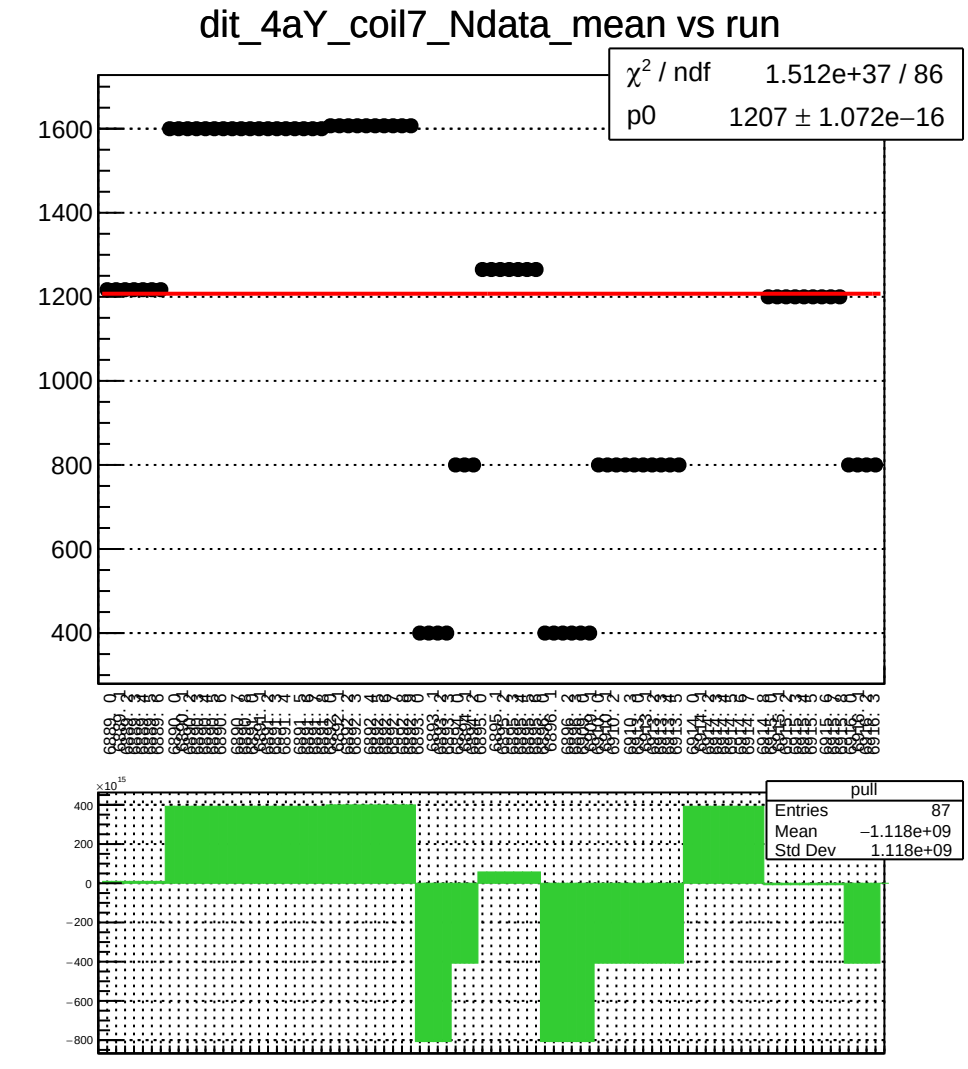

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

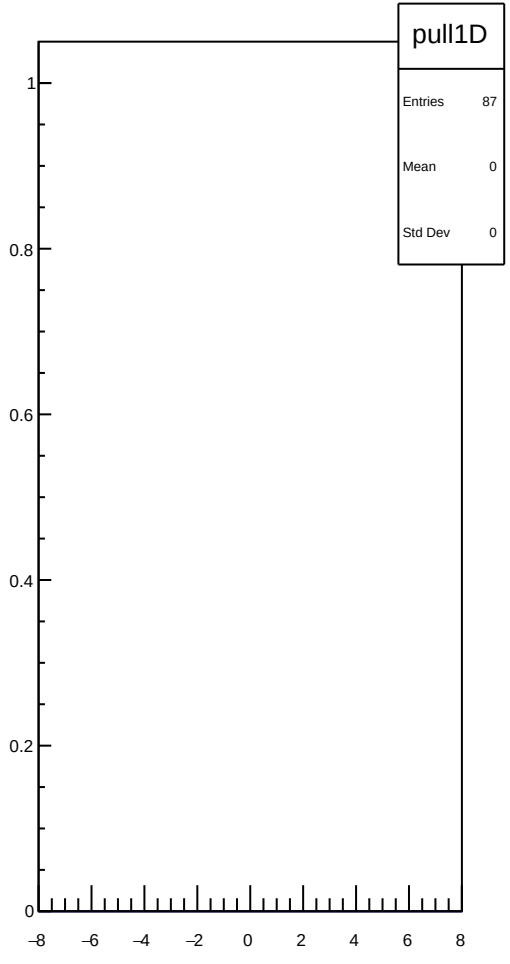

dit_4aY_coil7_mean vs run
χ² / ndf 1.187e+32 / 86
p0 −12.36 ± 1.072e−16
−10.5
−11
−11.5
−12
−12.5
−13
−13.5
−14
−14.5
×10¹²
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 87
Mean −9.277e+08
Std Dev 9.277e+08

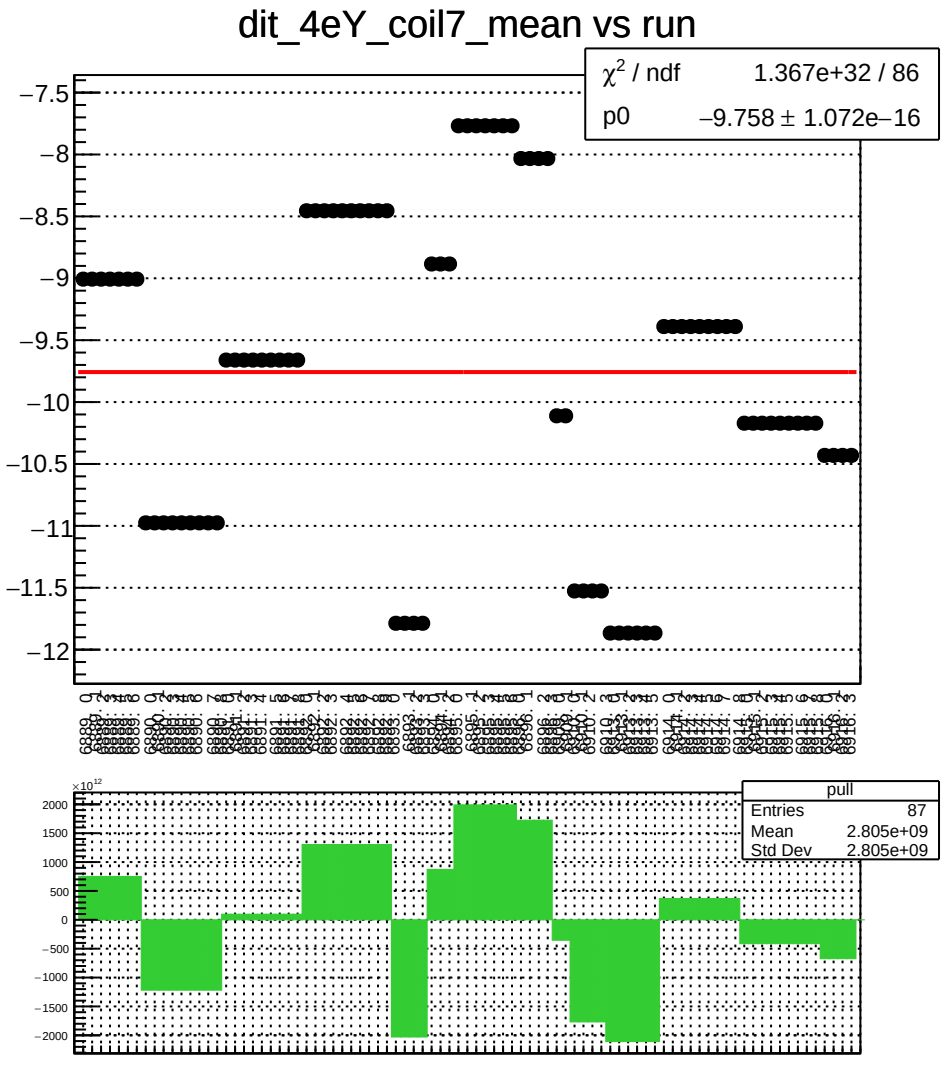

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

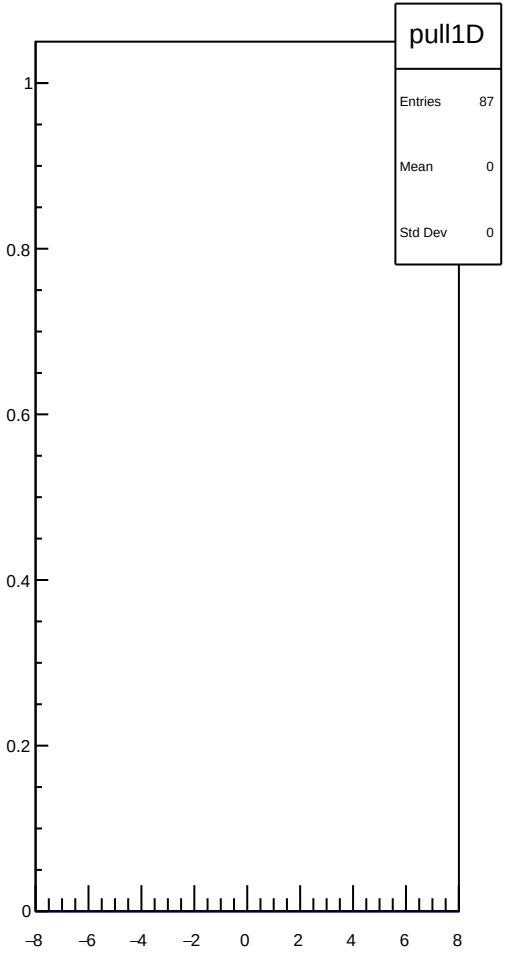

dit_4aY_coil7_err_mean vs run
χ² / ndf 9.64e+30 / 86
p0 1.556 ± 1.072e−16
2.4
2.2
2
1.8
1.6
1.4
1.2
pull
Entries 87
Mean −1.667e+09
Std Dev 1.667e+09
×10¹²
800
600
400
200
0
−200

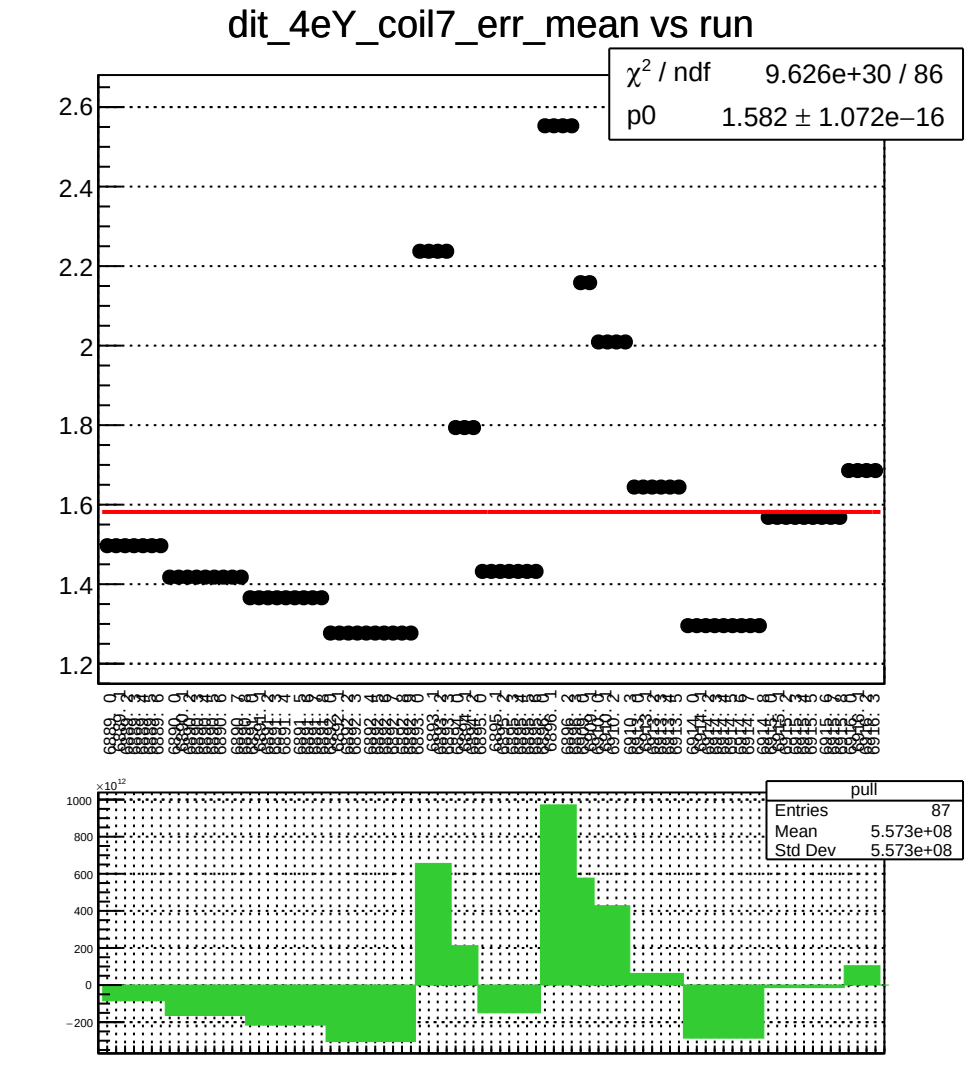

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

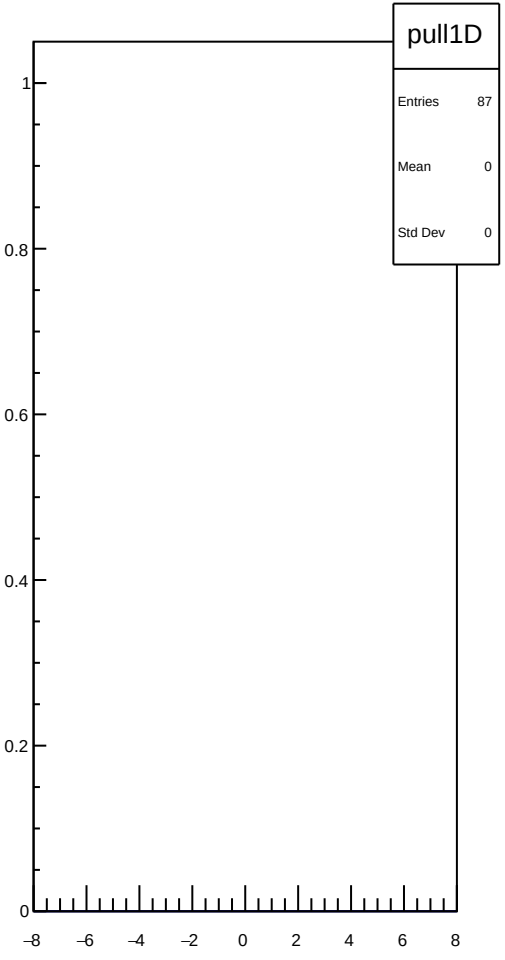

dit_4aY_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09

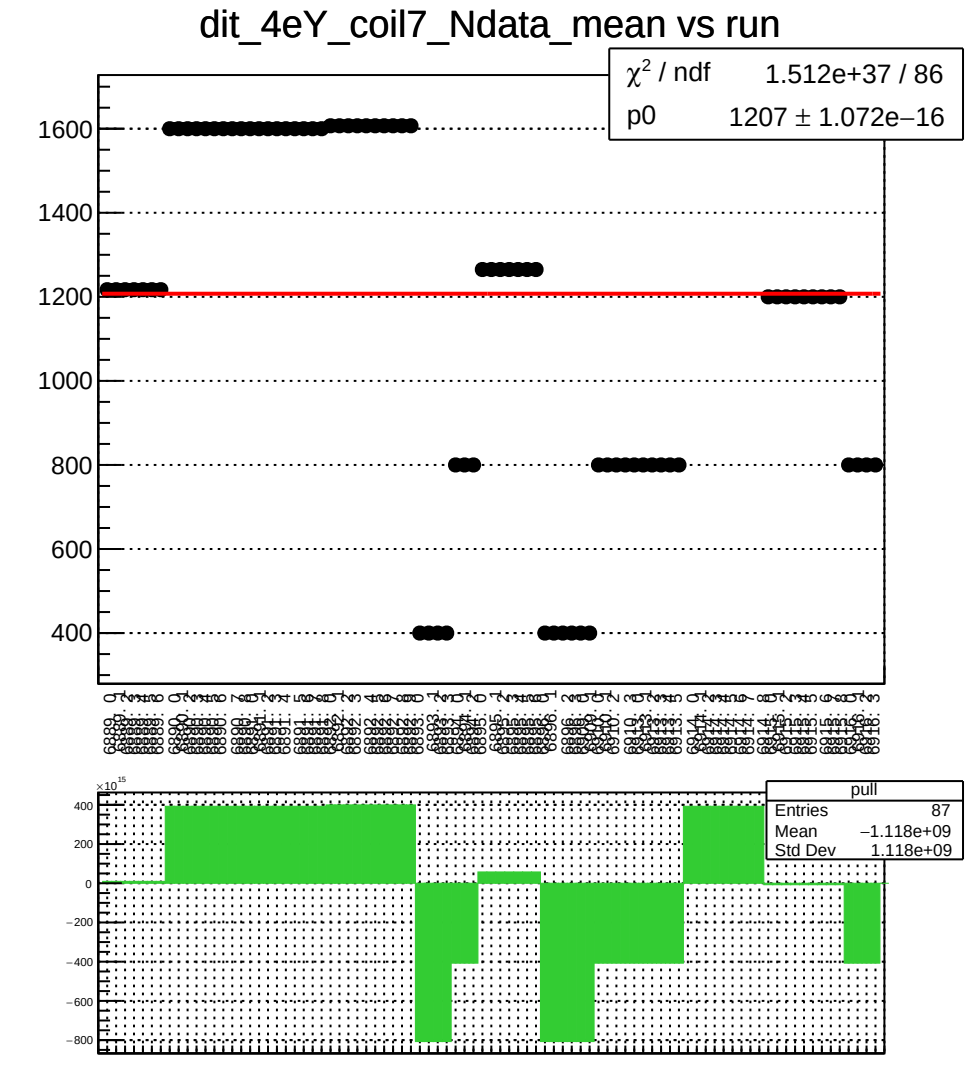

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

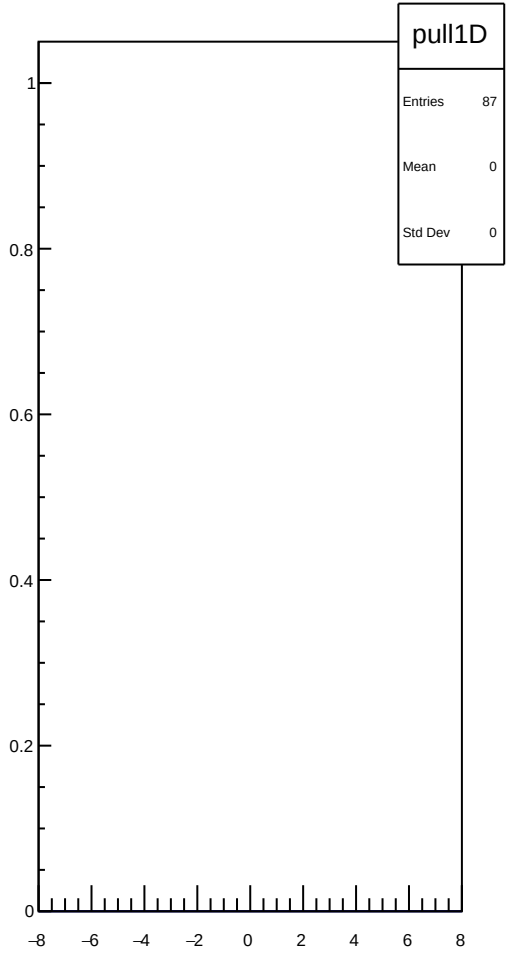

dit_4eY_coil7_mean vs run
χ² / ndf 1.367e+32 / 86
p0 −9.758 ± 1.072e−16
−7.5
−8
−8.5
−9
−9.5
−10
−10.5
−11
−11.5
−12
×10¹²
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 87
Mean 2.805e+09
Std Dev 2.805e+09

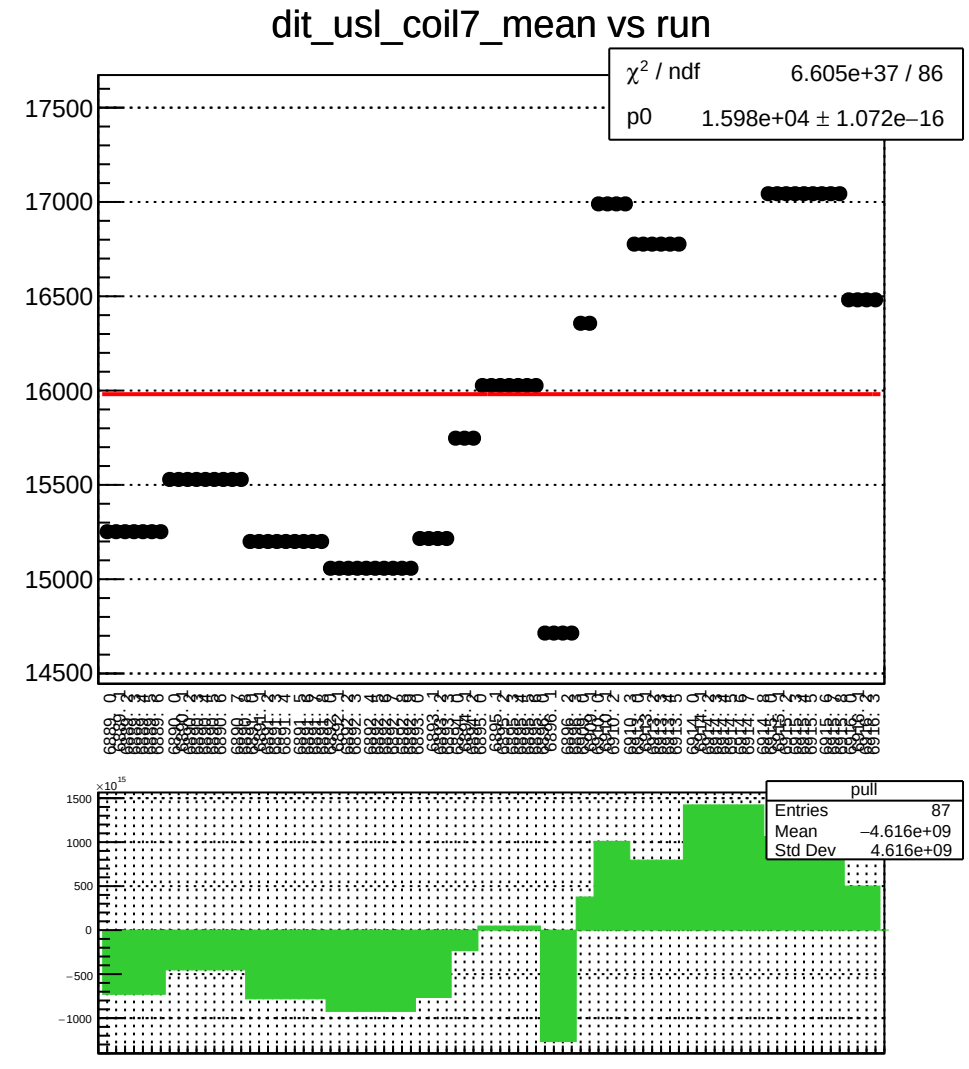

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

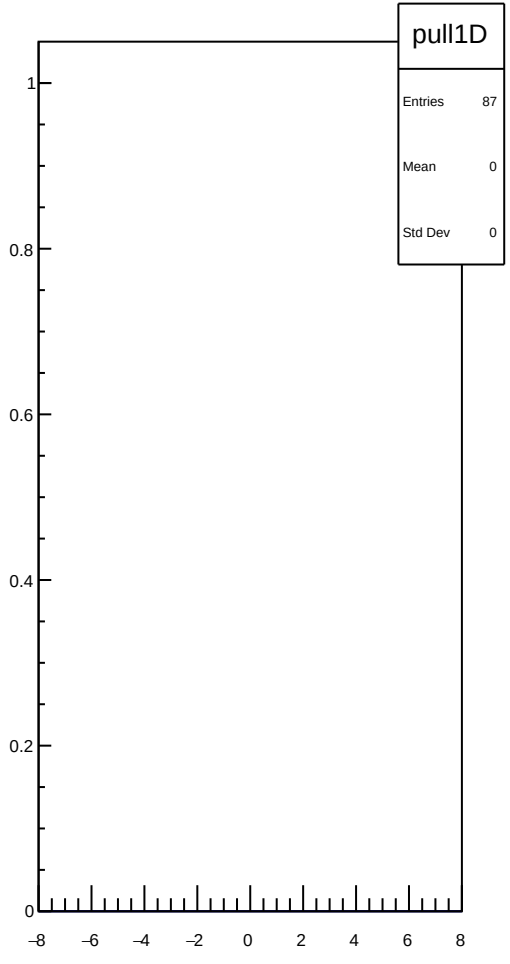

dit_4eY_coil7_err_mean vs run
χ² / ndf 9.626e+30 / 86
p0 1.582 ± 1.072e−16
pull
Entries 87
Mean 5.573e+08
Std Dev 5.573e+08

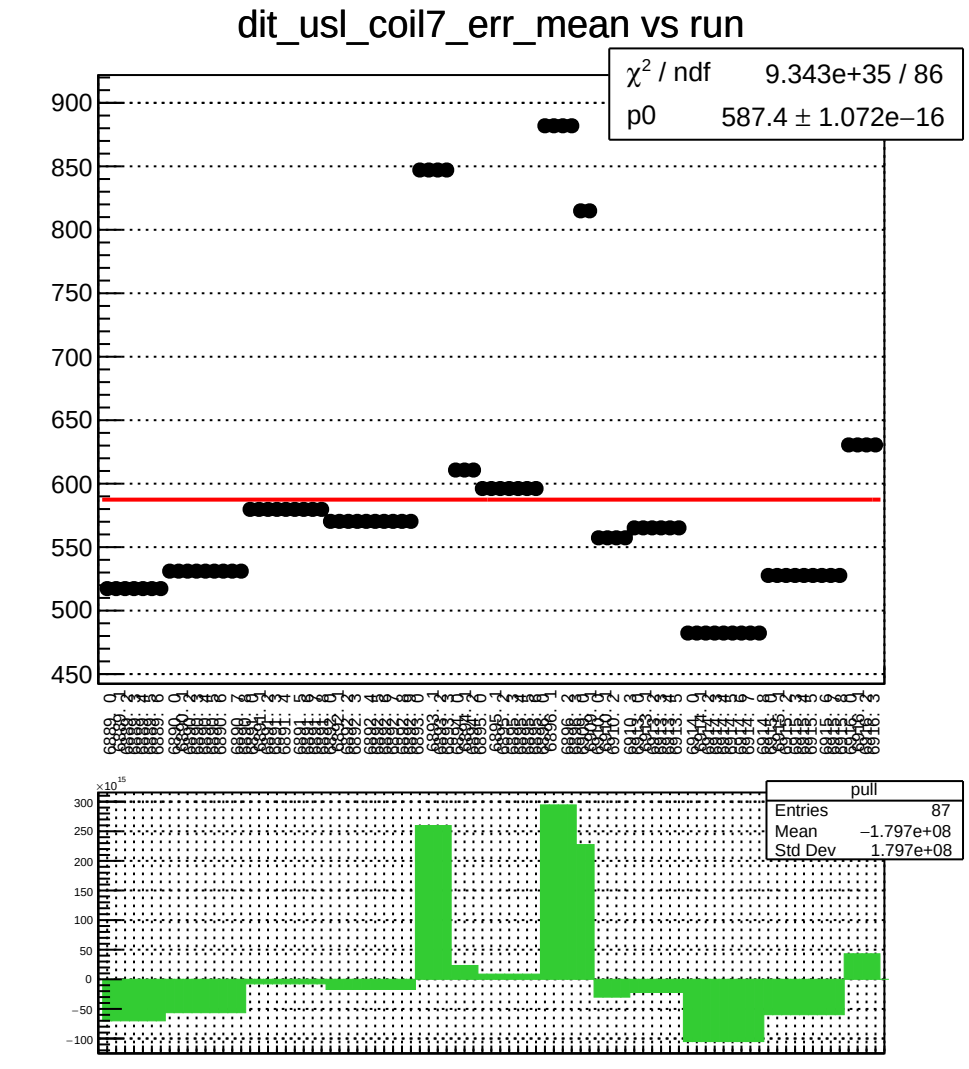

pull1D
Entries 87
Mean 0
Std Dev 0

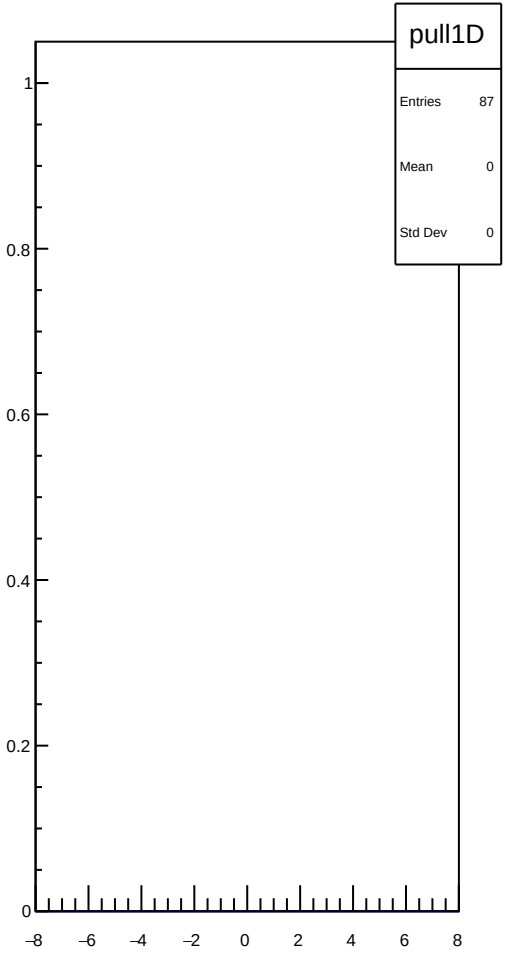

dit_4eY_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09

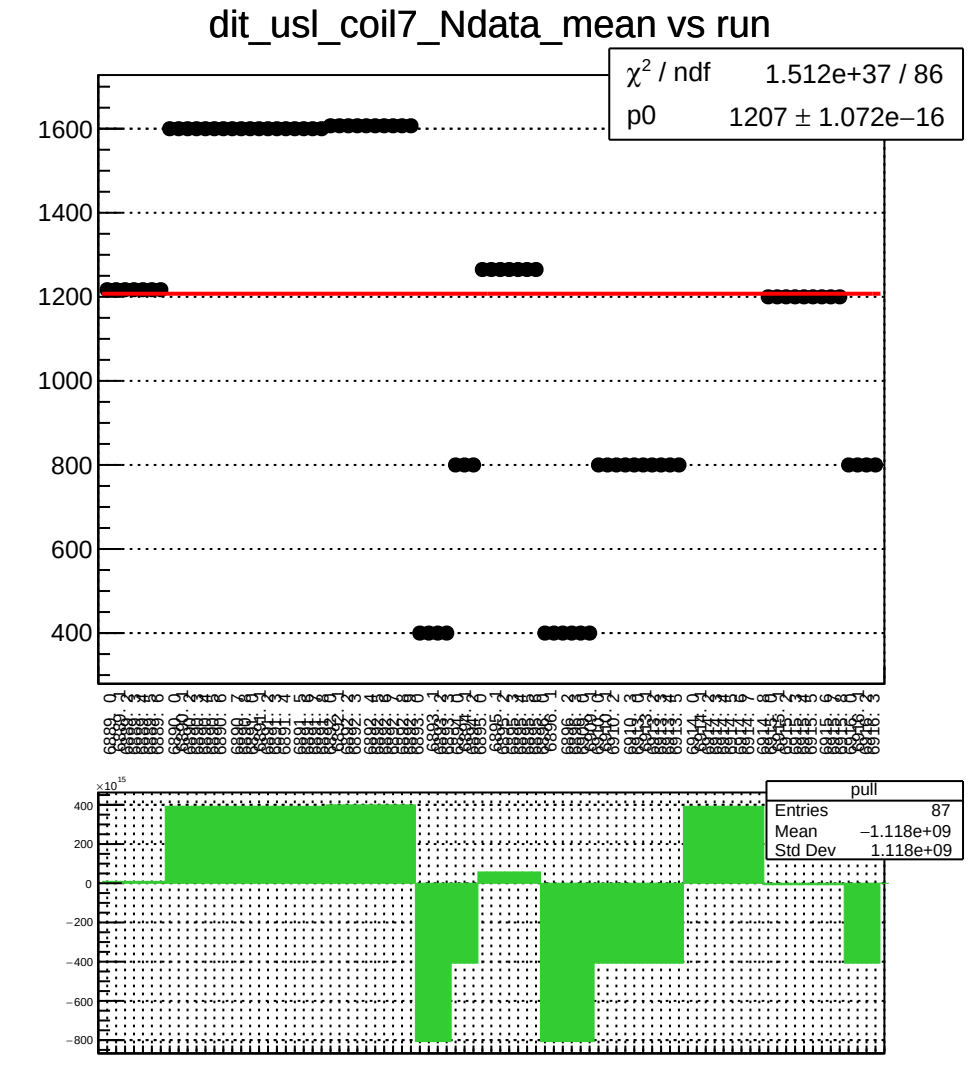

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

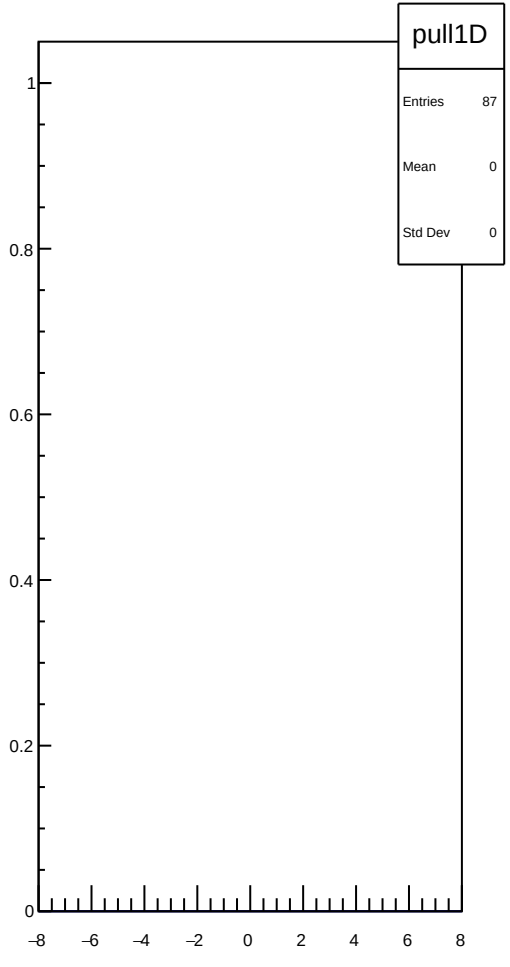

dit_usl_coil7_mean vs run
χ² / ndf 6.605e+37 / 86
p0 1.598e+04 ± 1.072e−16
17500
17000
16500
16000
15500
15000
14500
×10¹⁵
1500
1000
500
0
−500
−1000
pull
Entries 87
Mean −4.616e+09
Std Dev 4.616e+09

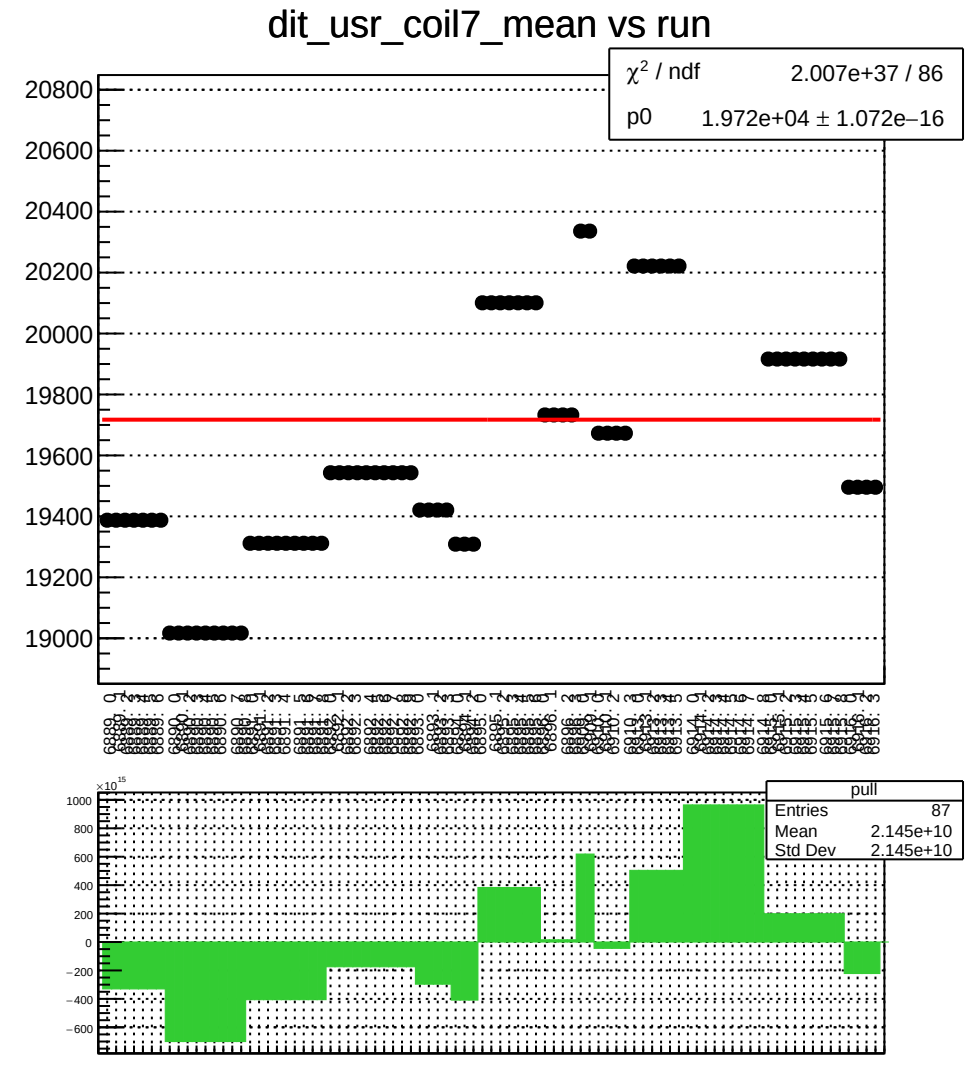

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

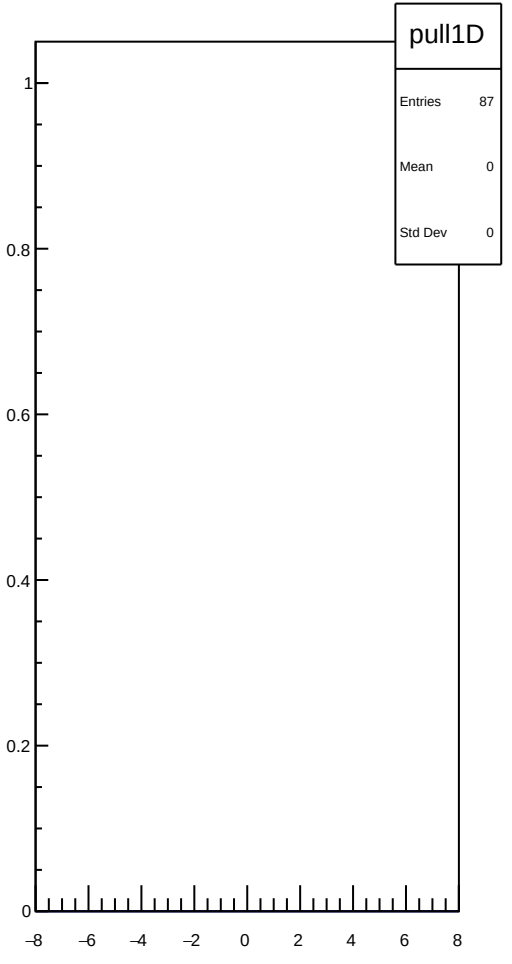

dit_usl_coil7_err_mean vs run
χ² / ndf 9.343e+35 / 86
p0 587.4 ± 1.072e−16
900
850
800
750
700
650
600
550
500
450
×10¹⁵
300
250
200
150
100
50
0
−50
−100
pull
Entries 87
Mean −1.797e+08
Std Dev 1.797e+08

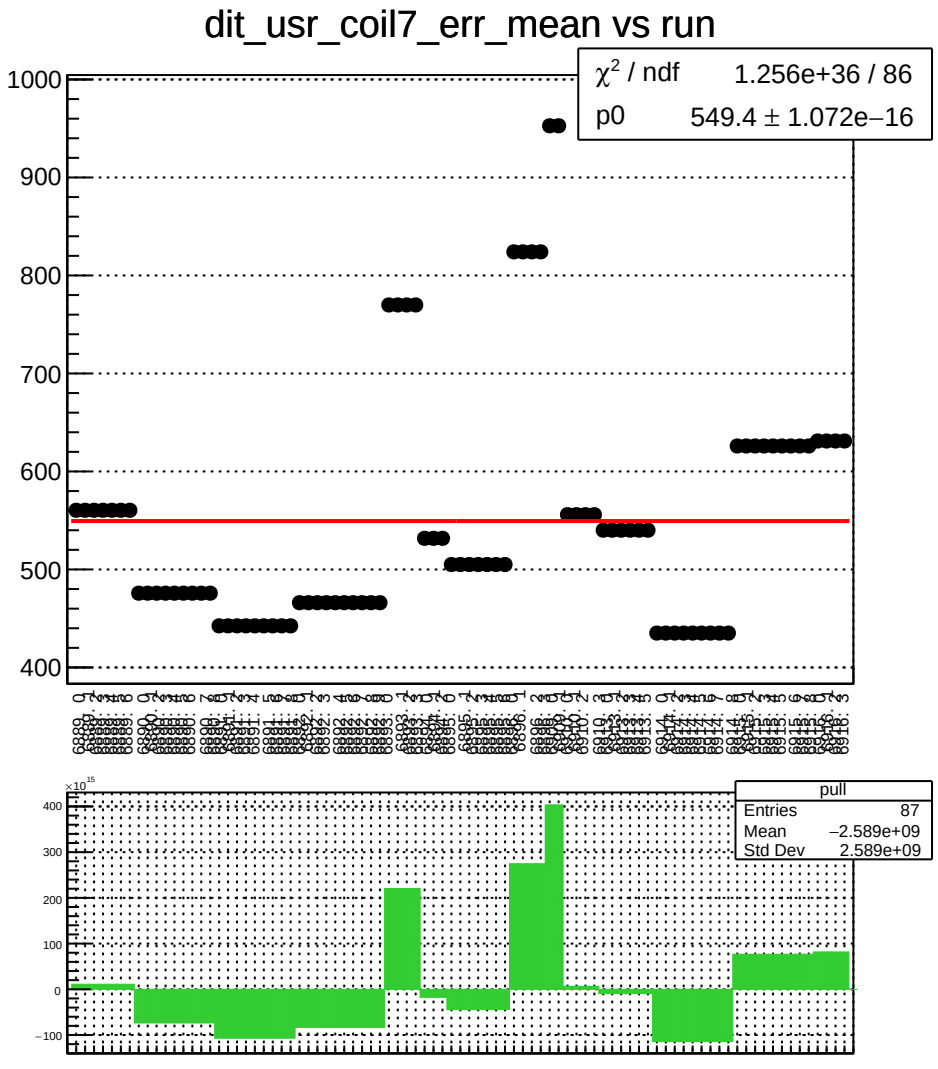

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

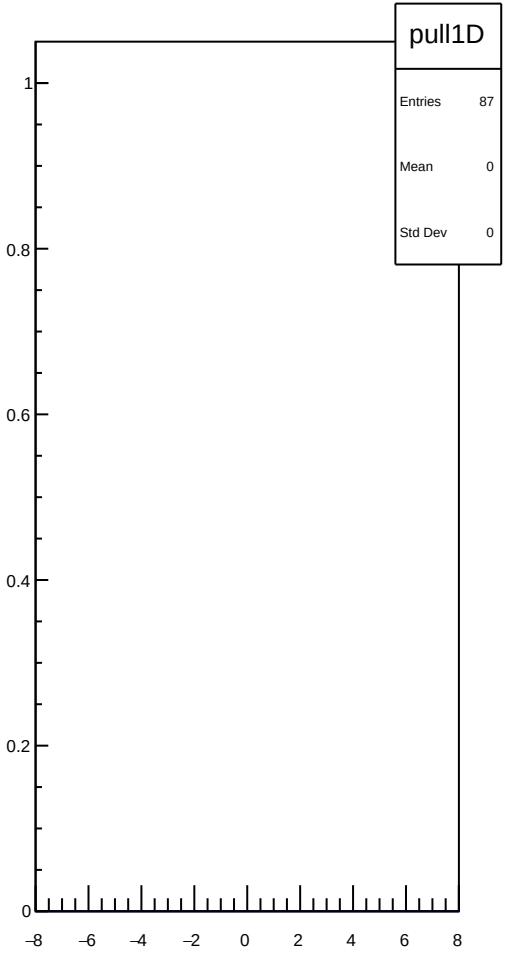

dit_usl_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09

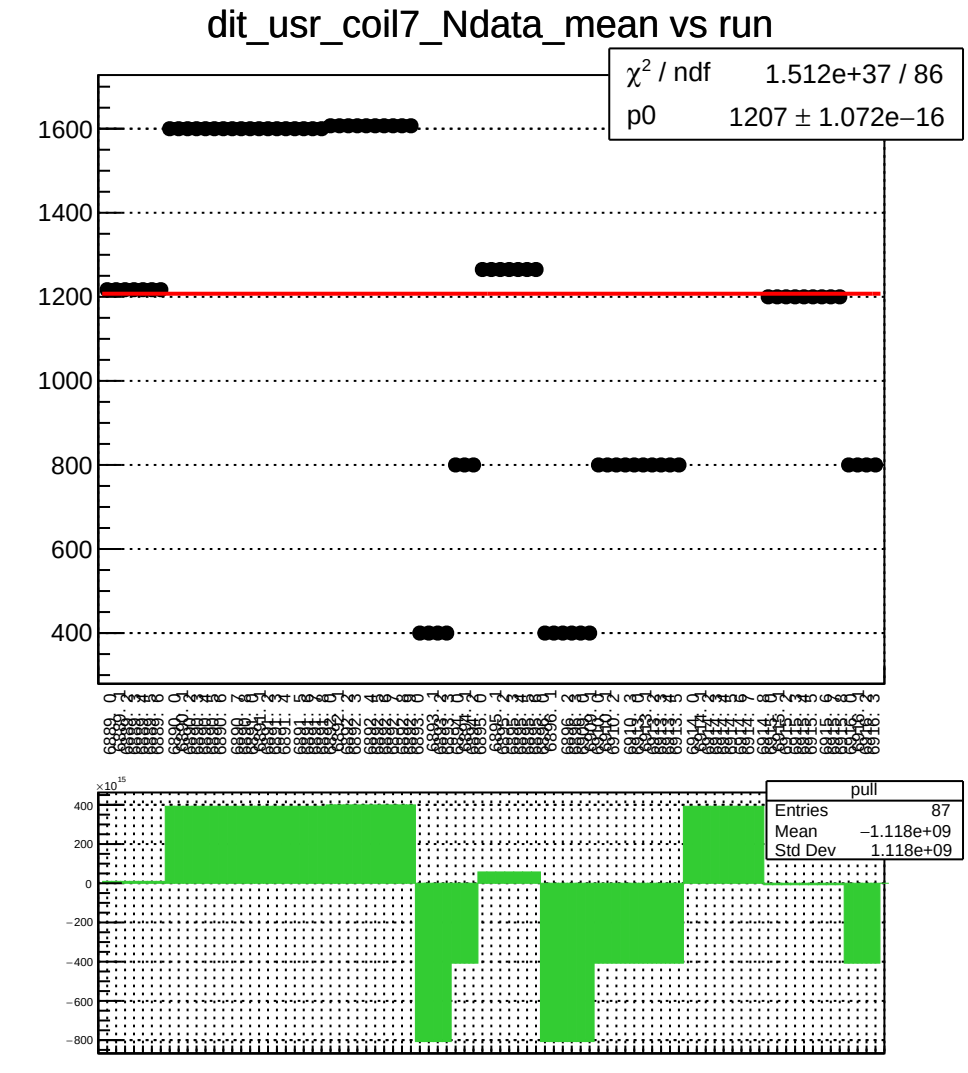

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

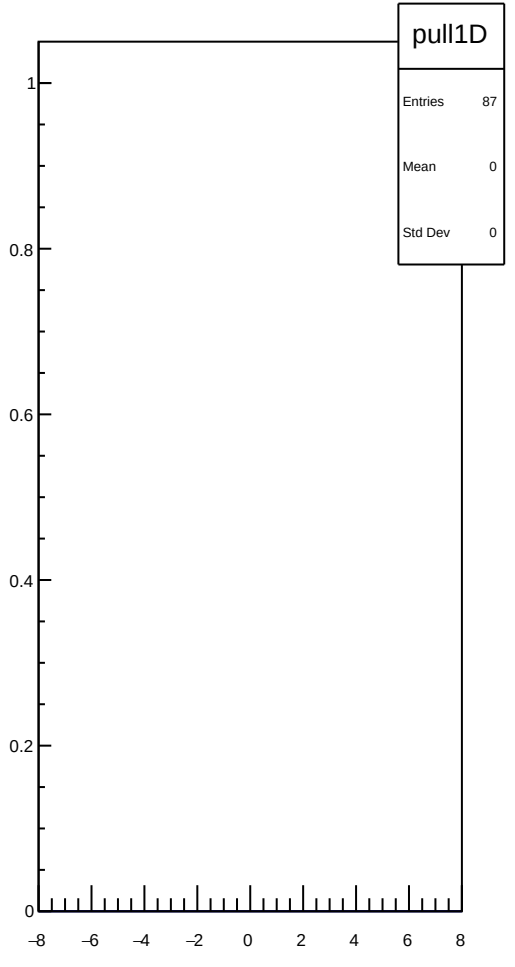

dit_usr_coil7_mean vs run
χ² / ndf 2.007e+37 / 86
p0 1.972e+04 ± 1.072e−16
20800
20600
20400
20200
20000
19800
19600
19400
19200
19000
×10¹⁵
1000
800
600
400
200
0
−200
−400
−600
pull
Entries 87
Mean 2.145e+10
Std Dev 2.145e+10

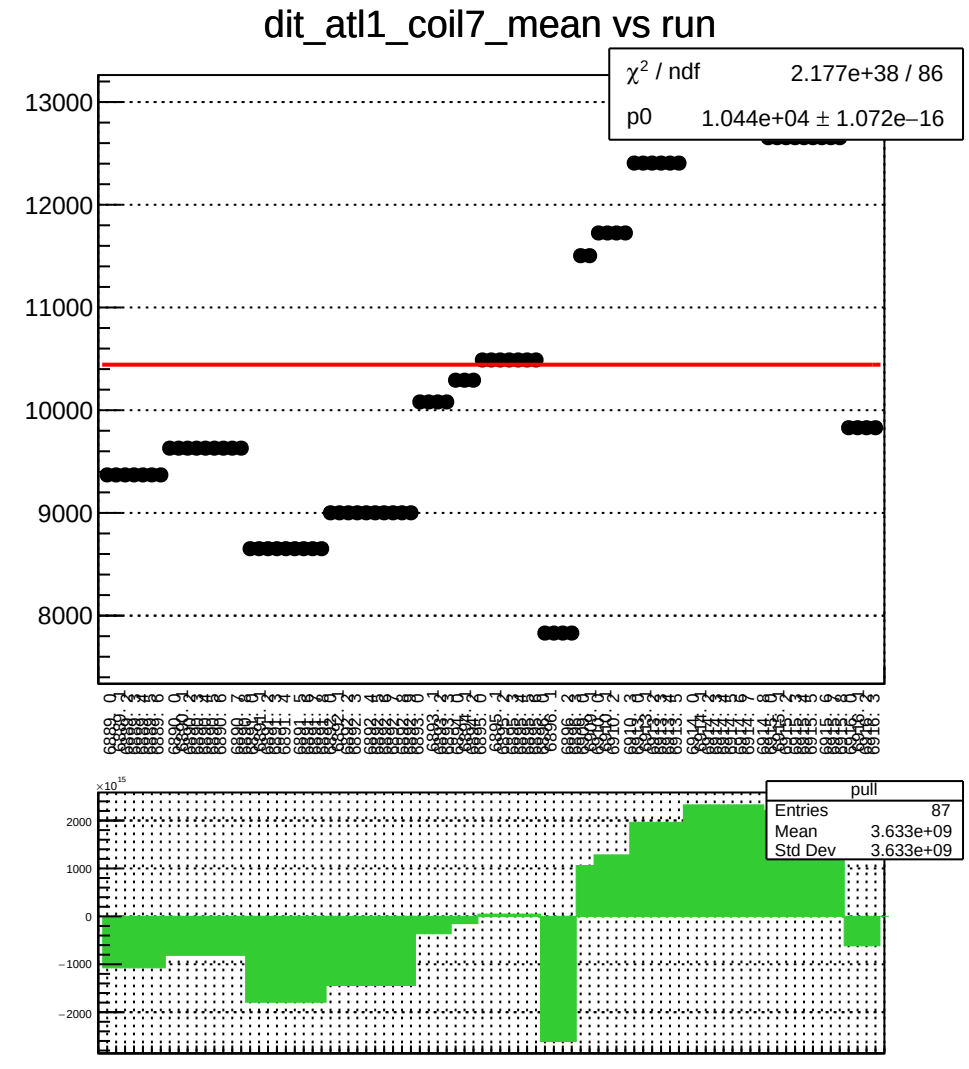

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

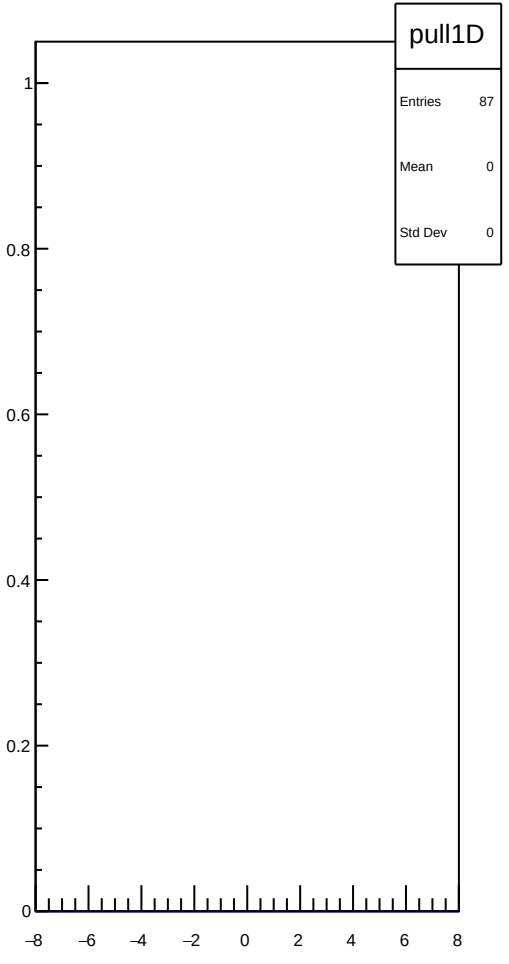

dit_usr_coil7_err_mean vs run
χ² / ndf 1.256e+36 / 86
p0 549.4 ± 1.072e−16
1000
900
800
700
600
500
400
pull
Entries 87
Mean −2.589e+09
Std Dev 2.589e+09
×10¹⁵
400
300
200
100
0
−100

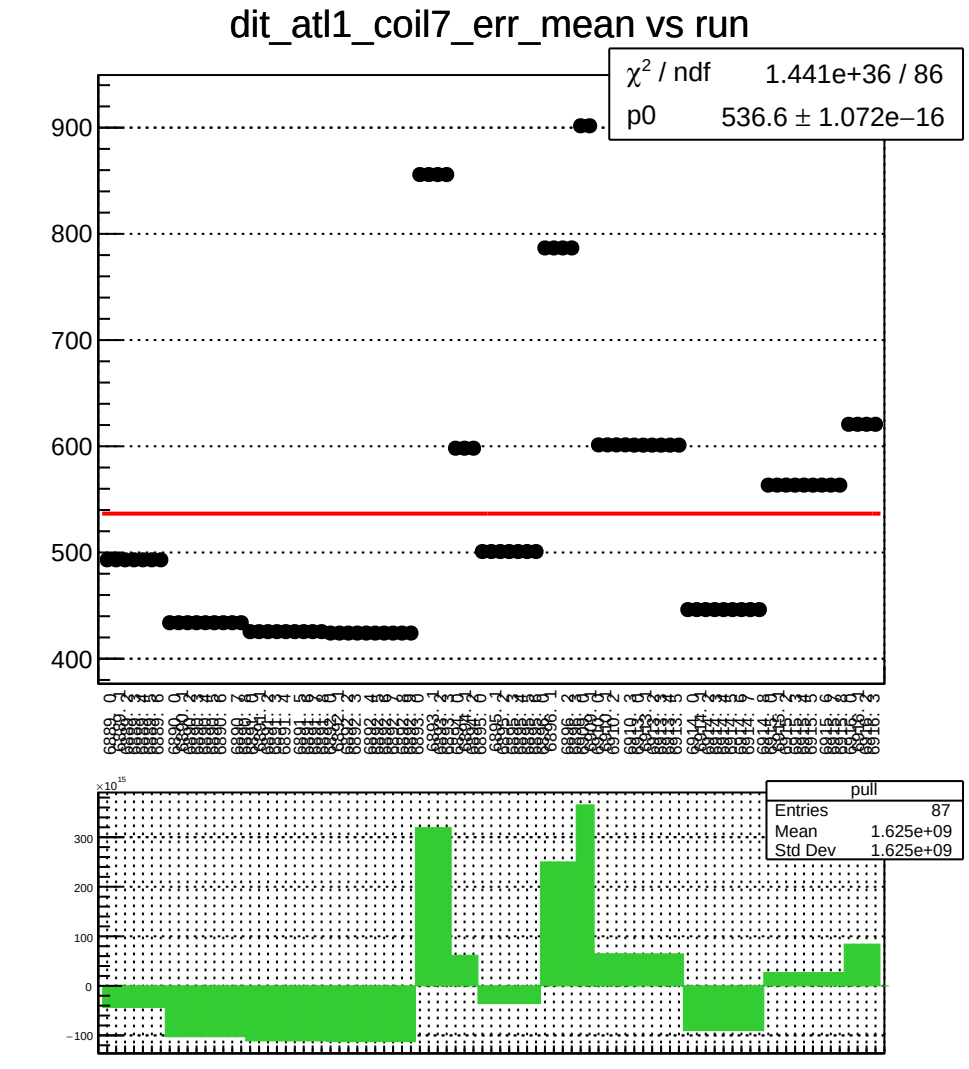

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

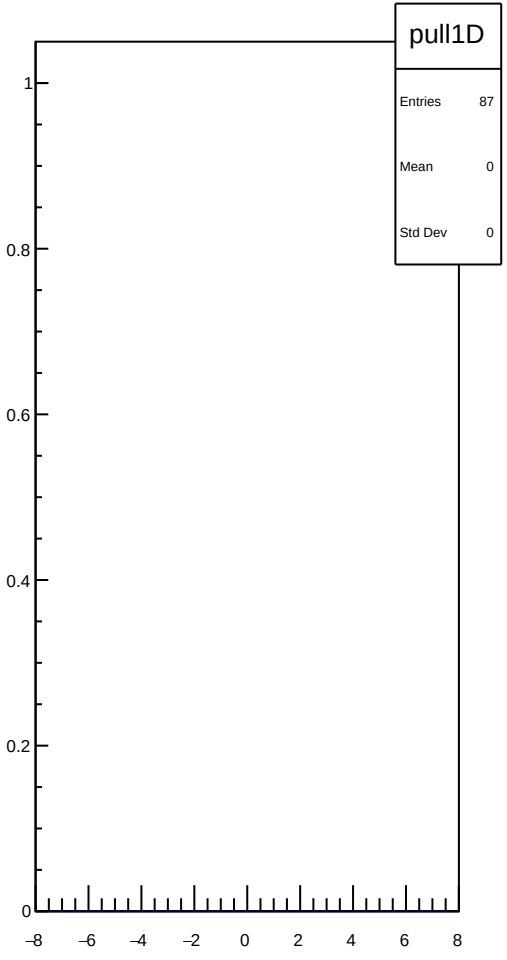

dit_usr_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09

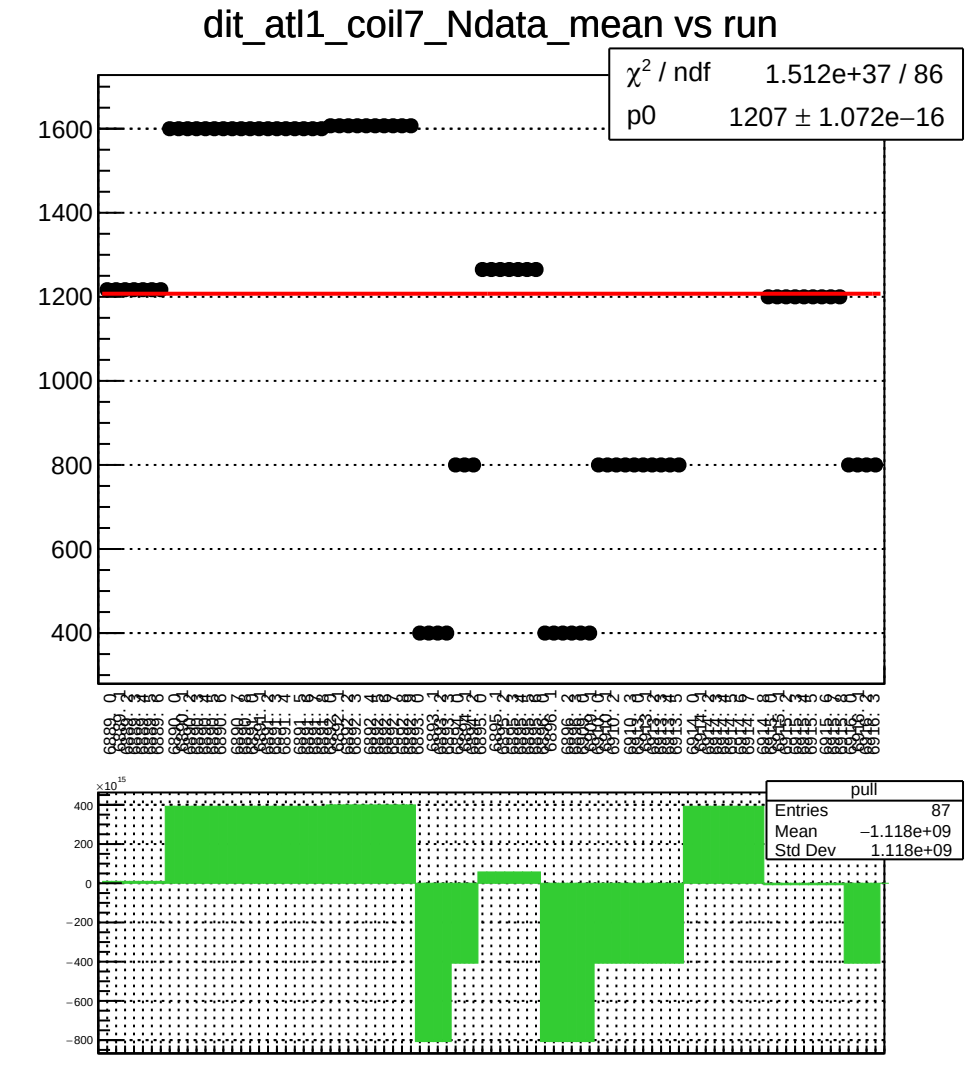

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

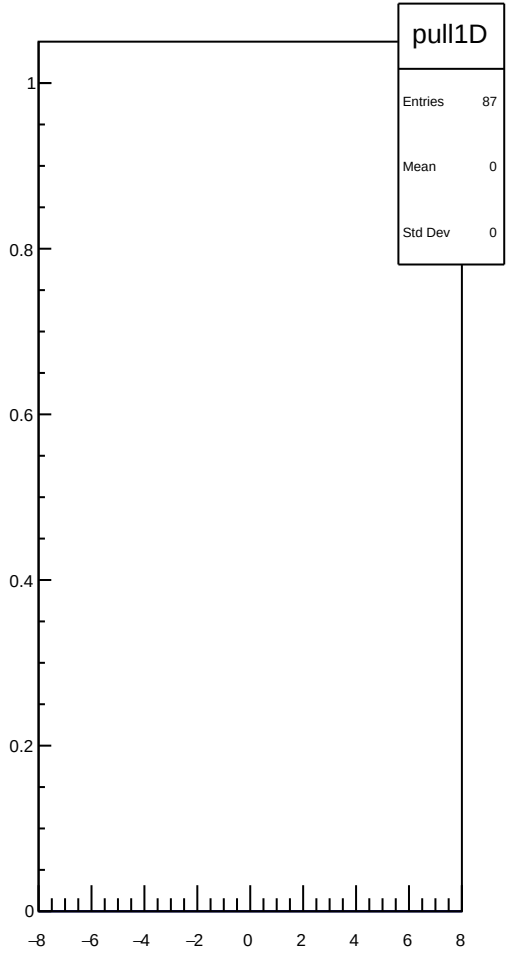

dit_atl1_coil7_mean vs run
χ² / ndf 2.177e+38 / 86
p0 1.044e+04 ± 1.072e−16
13000
12000
11000
10000
9000
8000
pull
Entries 87
Mean 3.633e+09
Std Dev 3.633e+09
×10¹⁵
2000
1000
0
−1000
−2000

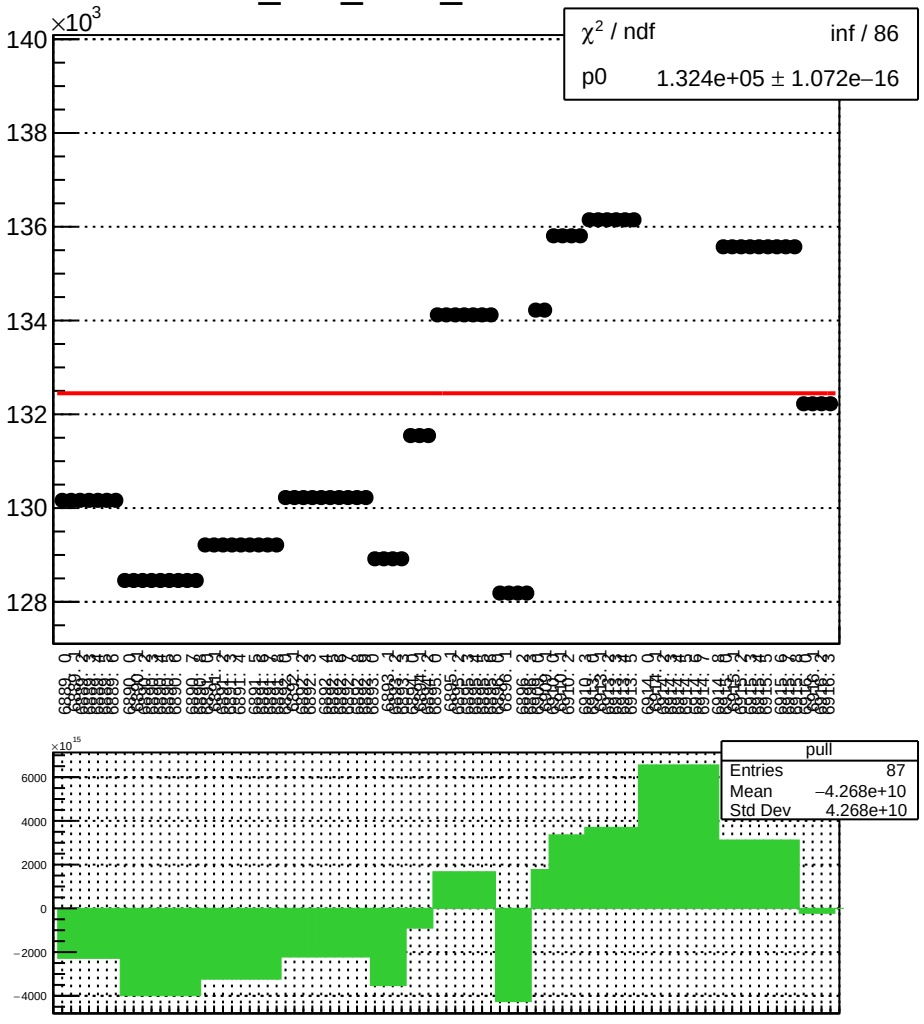

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

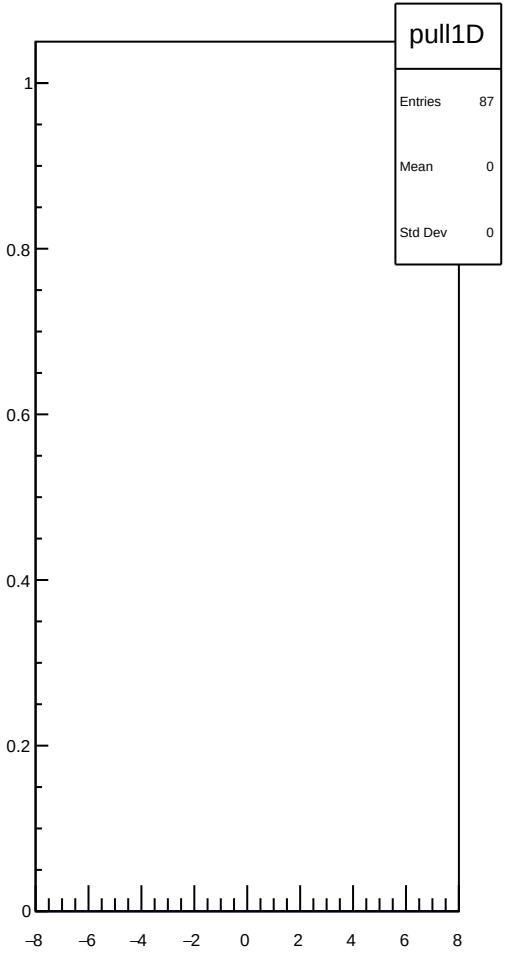

dit_atl1_coil7_err_mean vs run
χ² / ndf 1.441e+36 / 86
p0 536.6 ± 1.072e−16
900
800
700
600
500
400
pull
Entries 87
Mean 1.625e+09
Std Dev 1.625e+09
×10¹⁵
300
200
100
0
−100

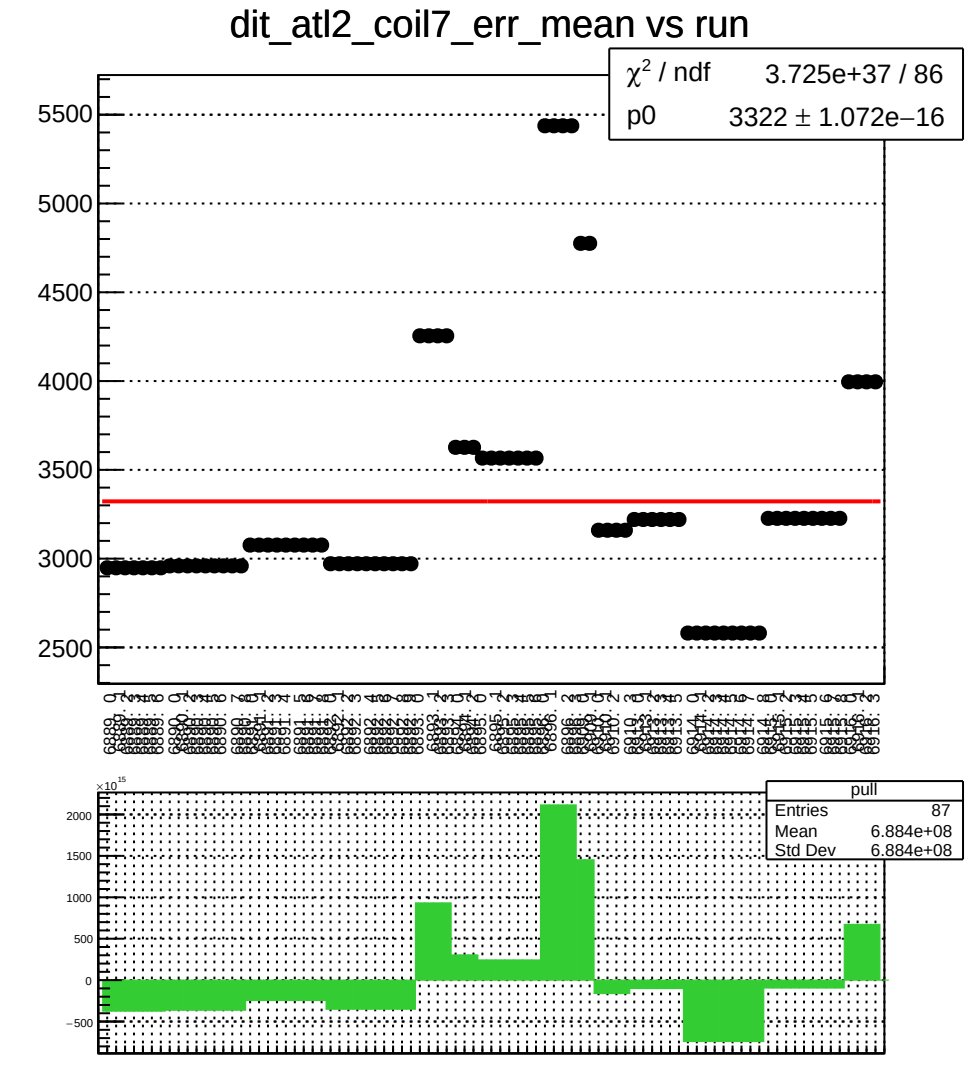

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

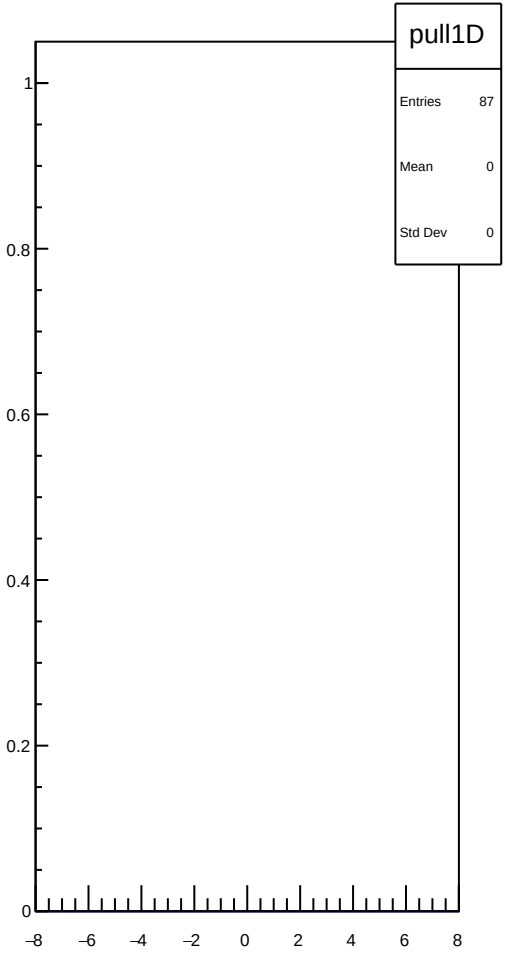

dit_atl1_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09

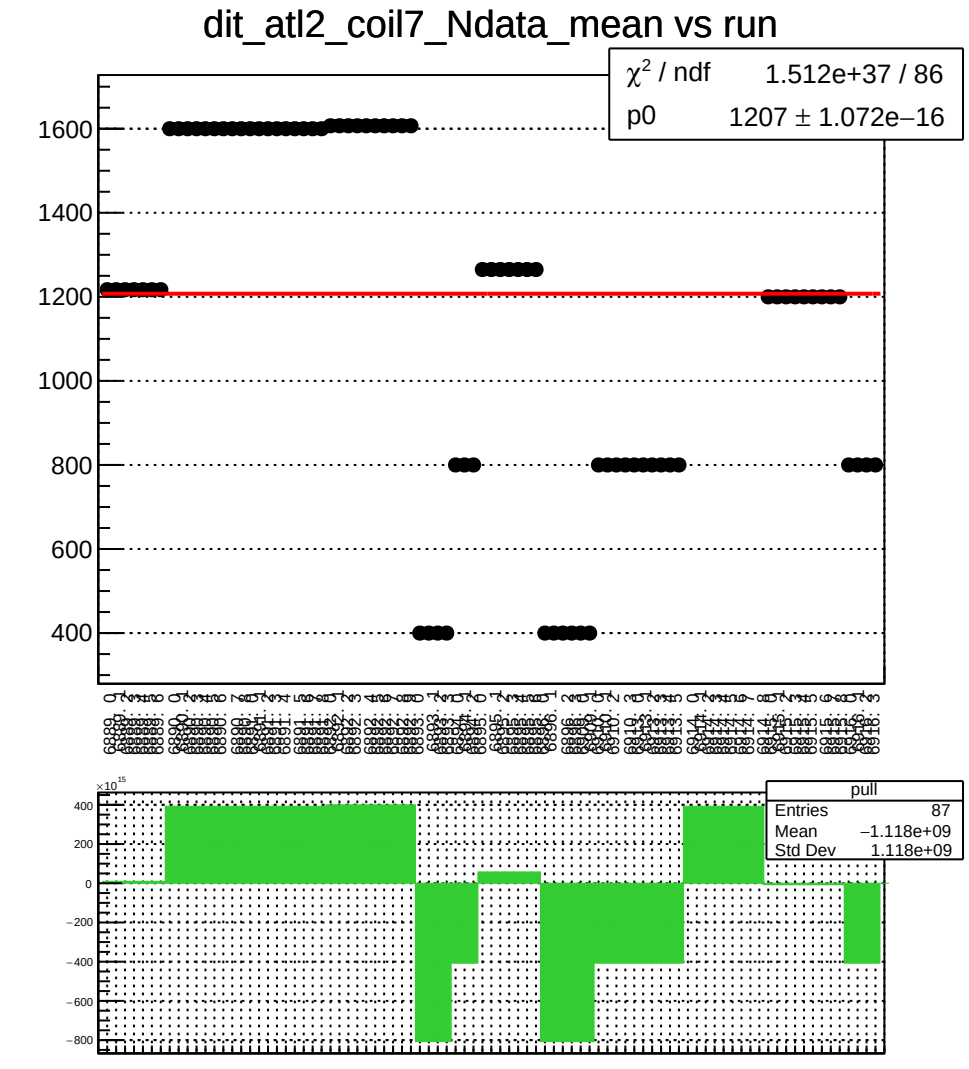

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

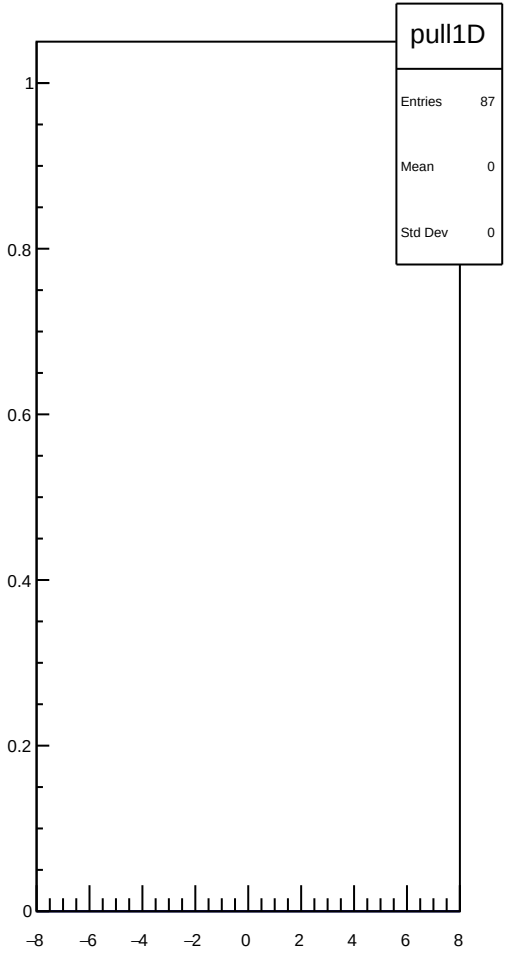

dit_atl2_coil7_mean vs run
×10^3
140
138
136
134
132
130
128
χ² / ndf inf / 86
p0 1.324e+05 ± 1.072e−16
×10^15
6000
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −4.268e+10
Std Dev 4.268e+10

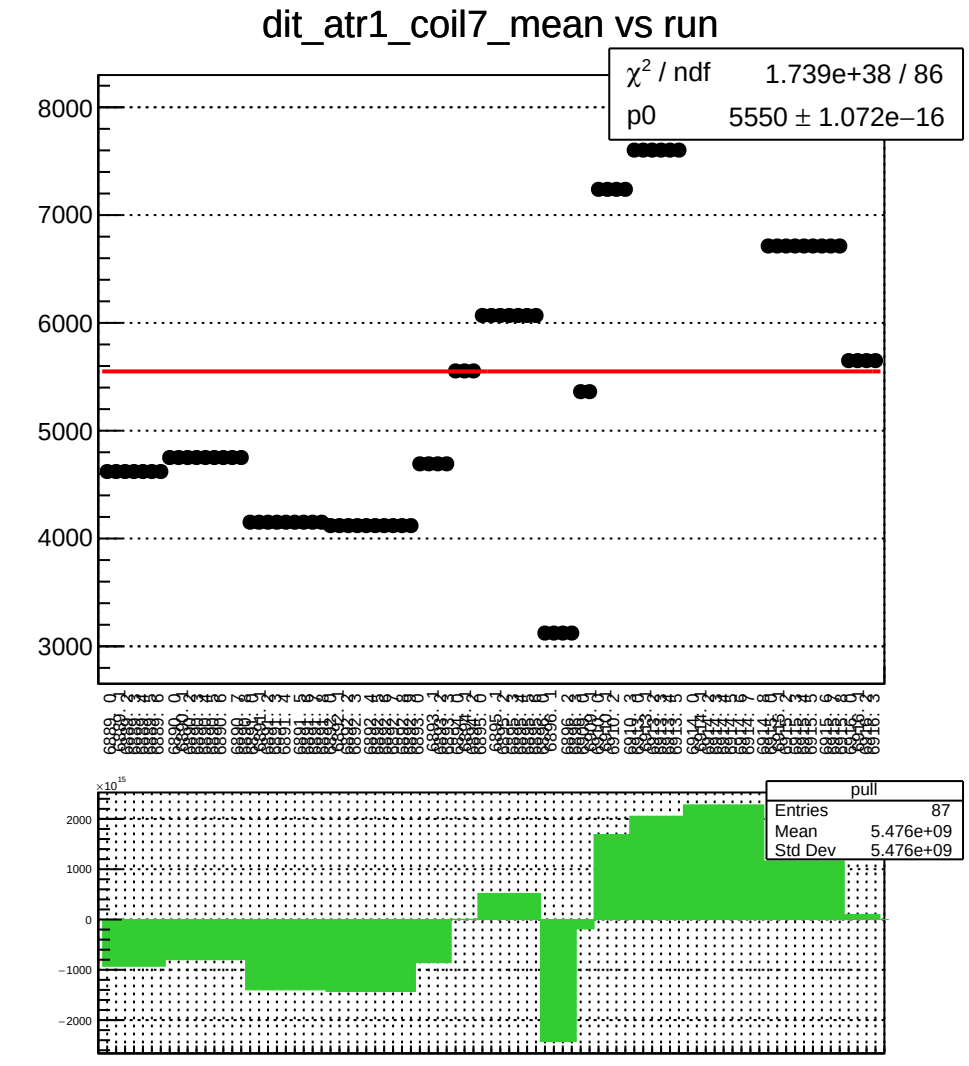

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

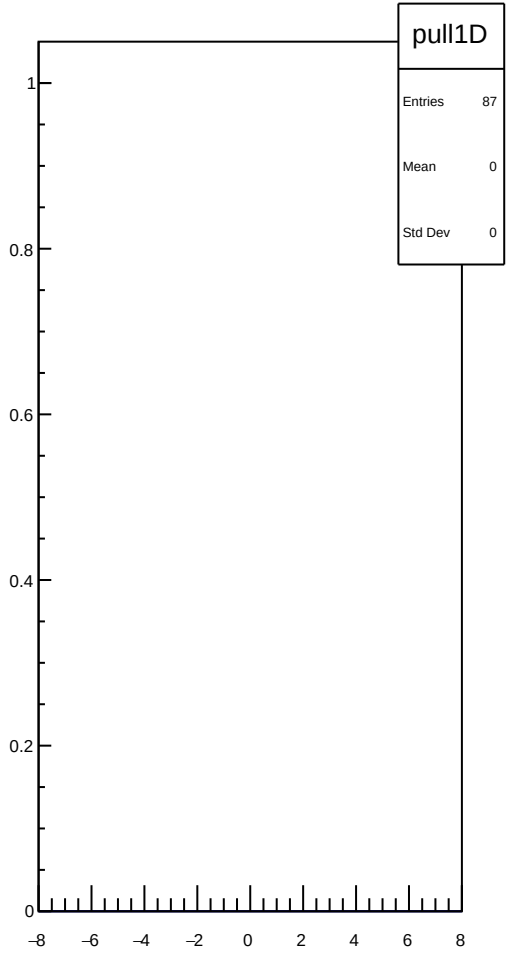

dit_atl2_coil7_err_mean vs run
χ² / ndf 3.725e+37 / 86
p0 3322 ± 1.072e−16
5500
5000
4500
4000
3500
3000
2500
×10¹⁵
2000
1500
1000
500
0
−500
pull
Entries 87
Mean 6.884e+08
Std Dev 6.884e+08

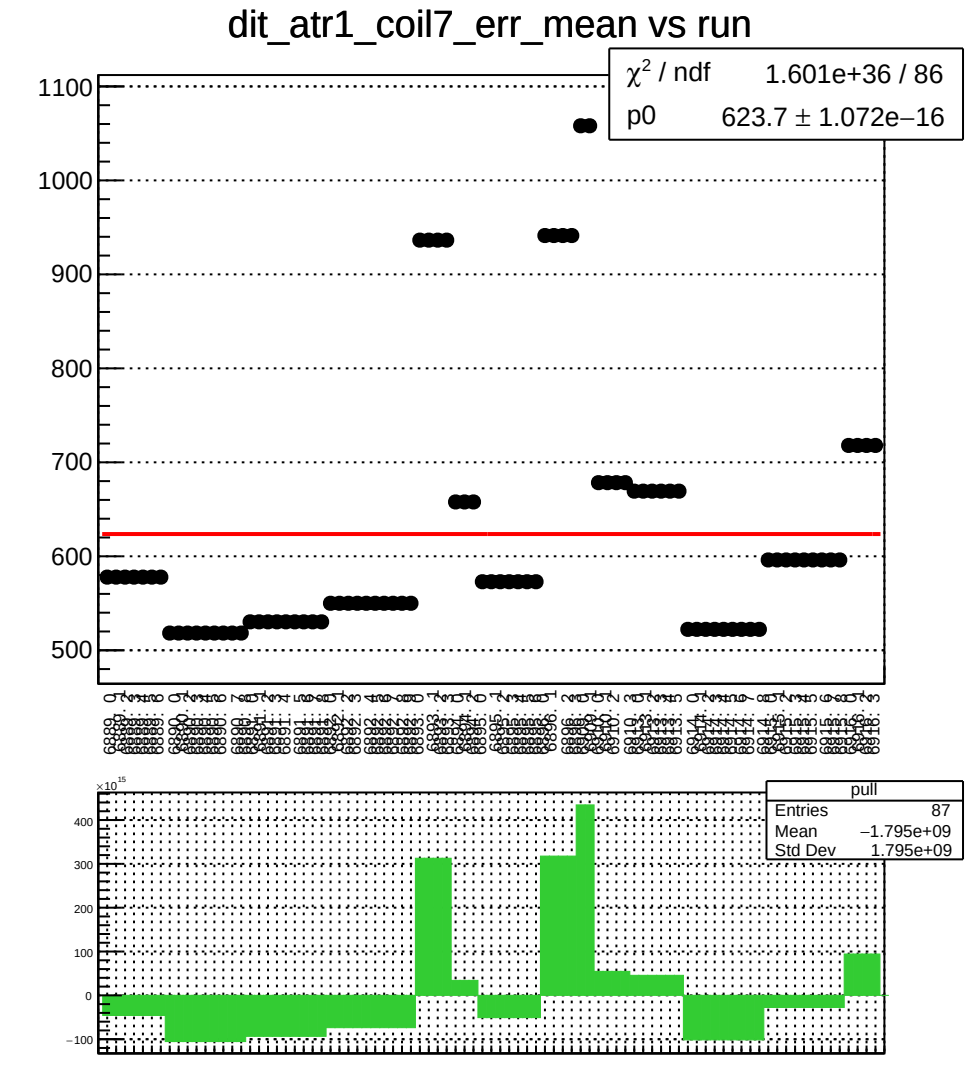

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

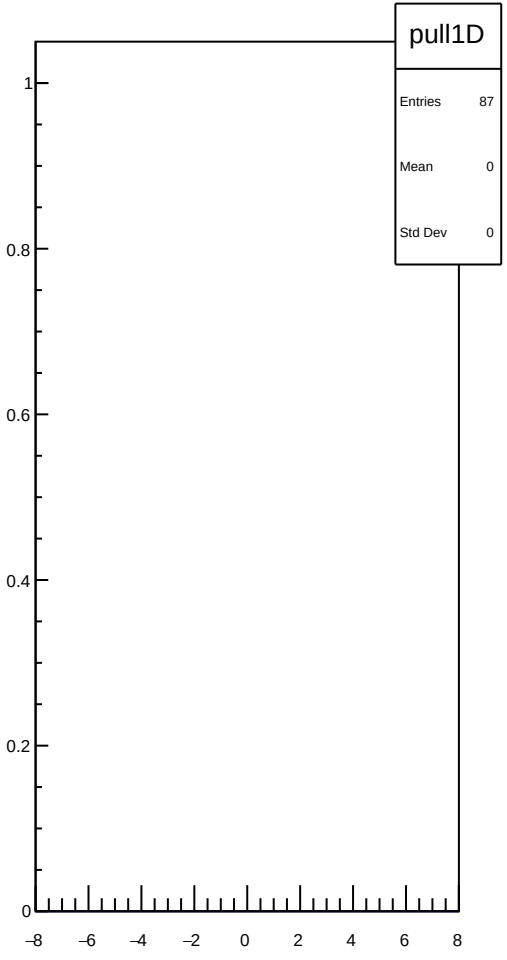

dit_atl2_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09

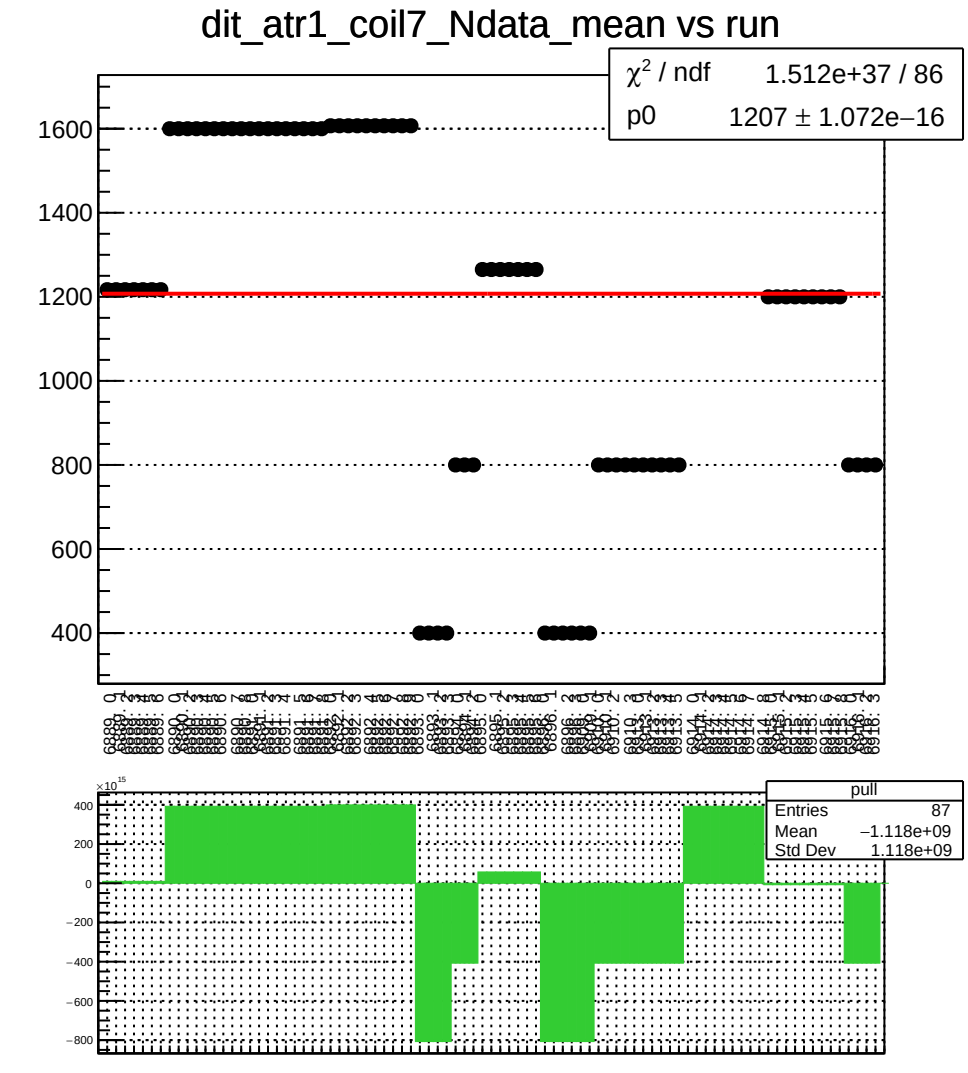

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

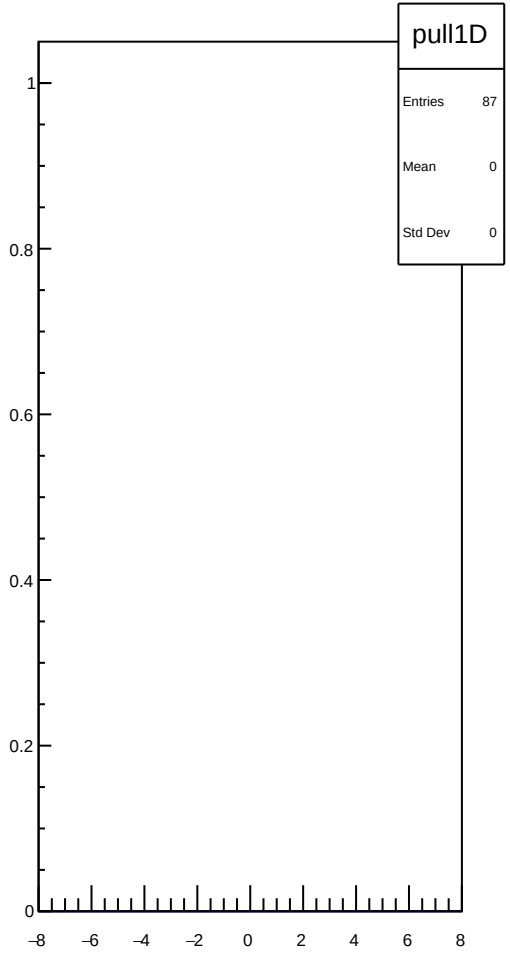

dit_atr1_coil7_mean vs run
χ² / ndf 1.739e+38 / 86
p0 5550 ± 1.072e−16
8000
7000
6000
5000
4000
3000
×10¹⁵
2000
1000
0
−1000
−2000
pull
Entries 87
Mean 5.476e+09
Std Dev 5.476e+09

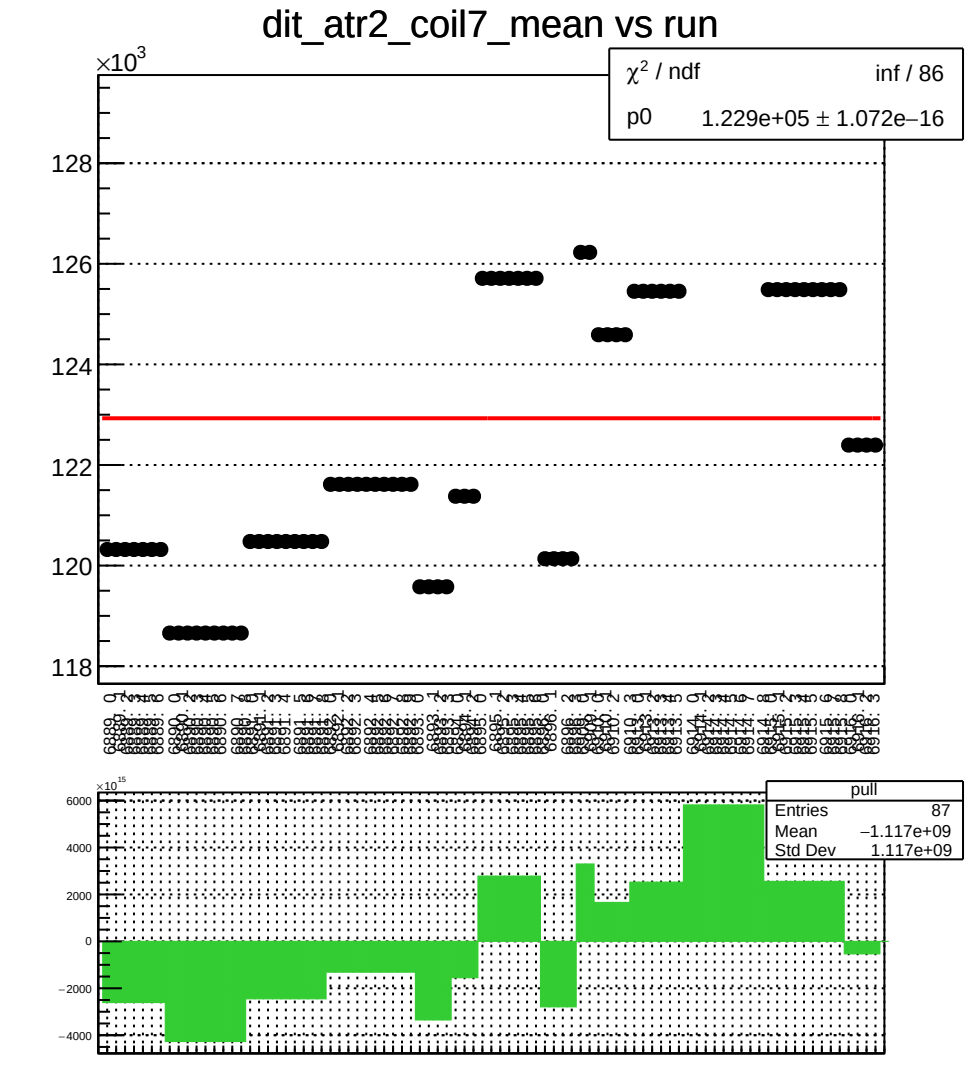

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

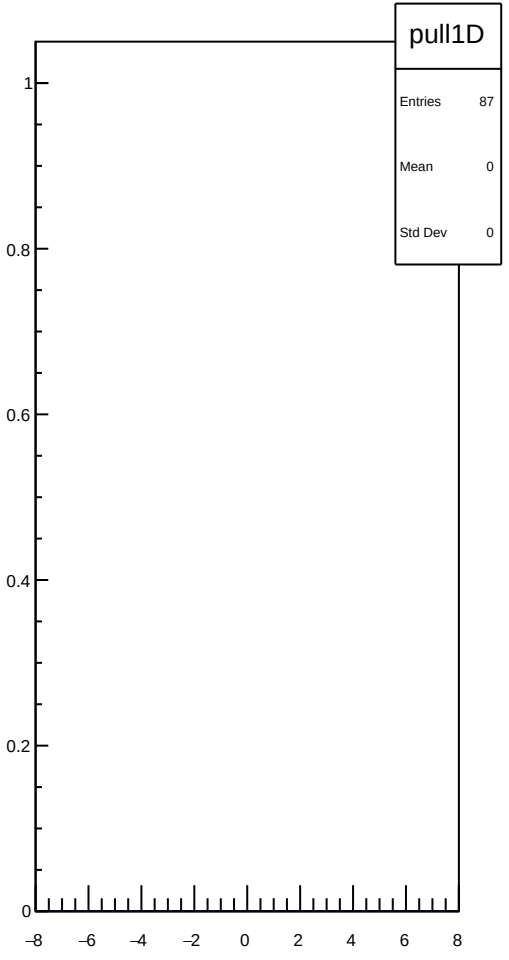

dit_atr1_coil7_err_mean vs run
χ² / ndf 1.601e+36 / 86
p0 623.7 ± 1.072e−16
pull
Entries 87
Mean −1.795e+09
Std Dev 1.795e+09

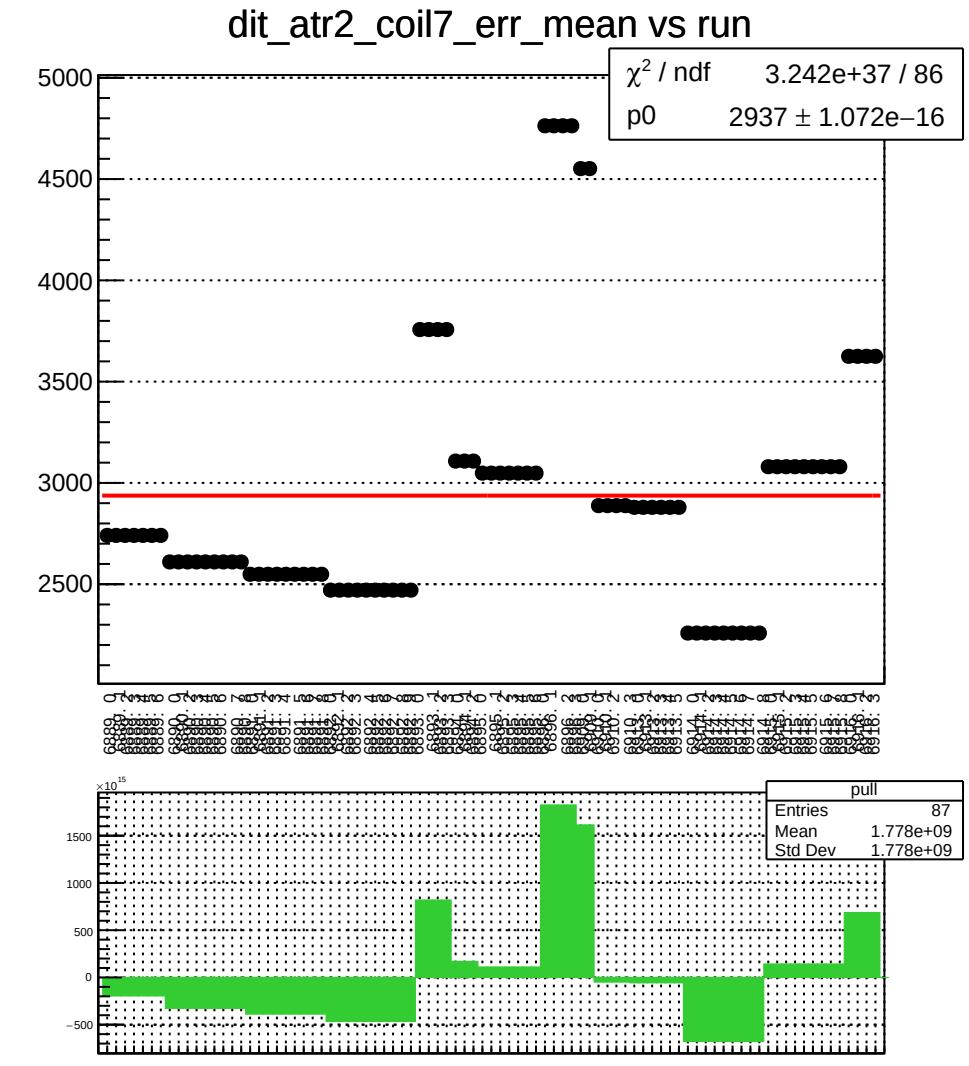

pull1D
Entries 87
Mean 0
Std Dev 0

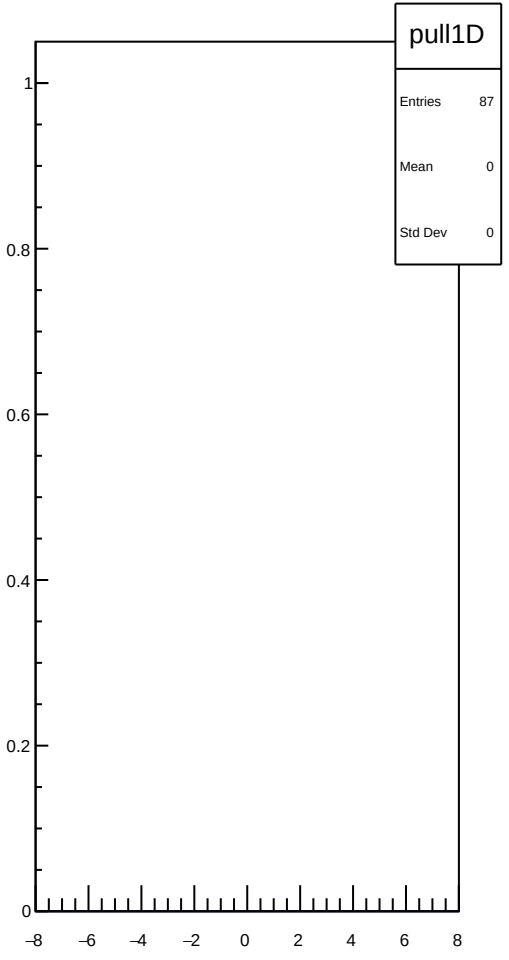

dit_atr1_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09

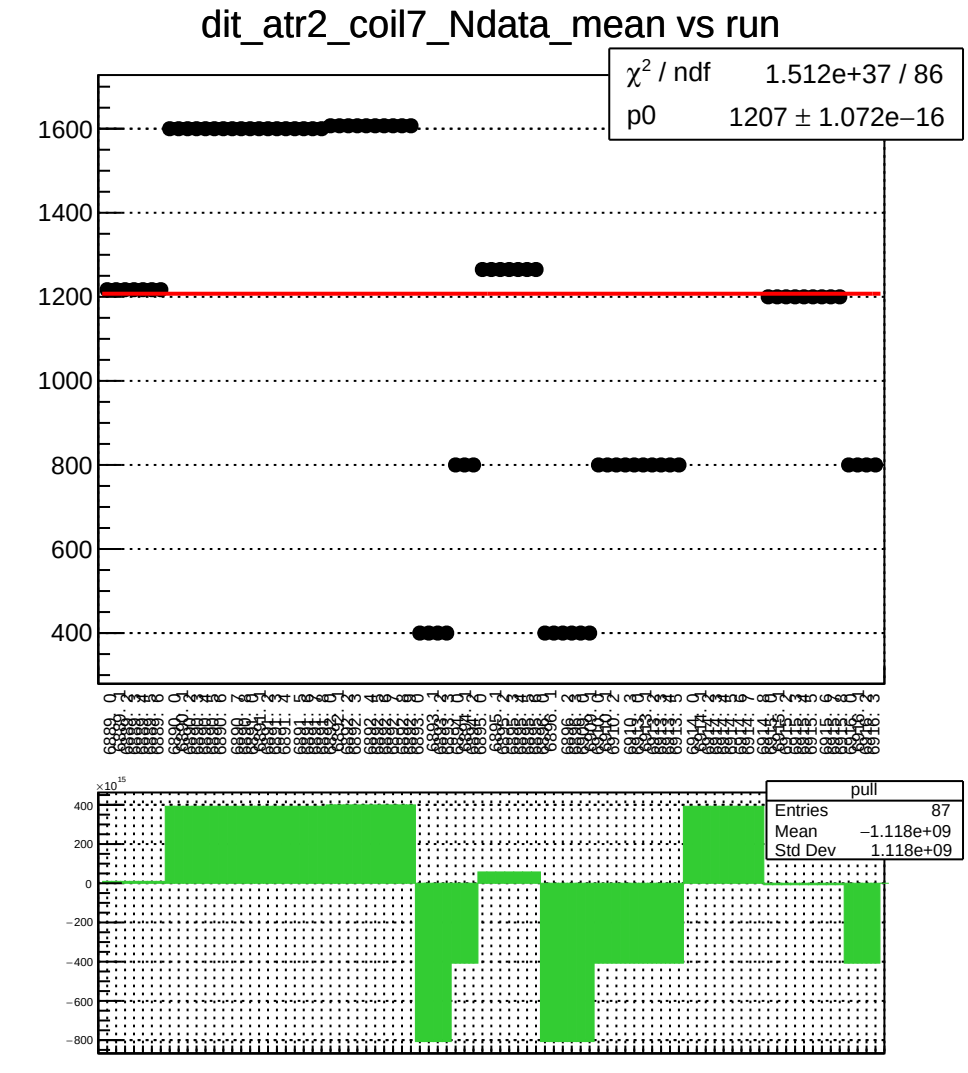

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

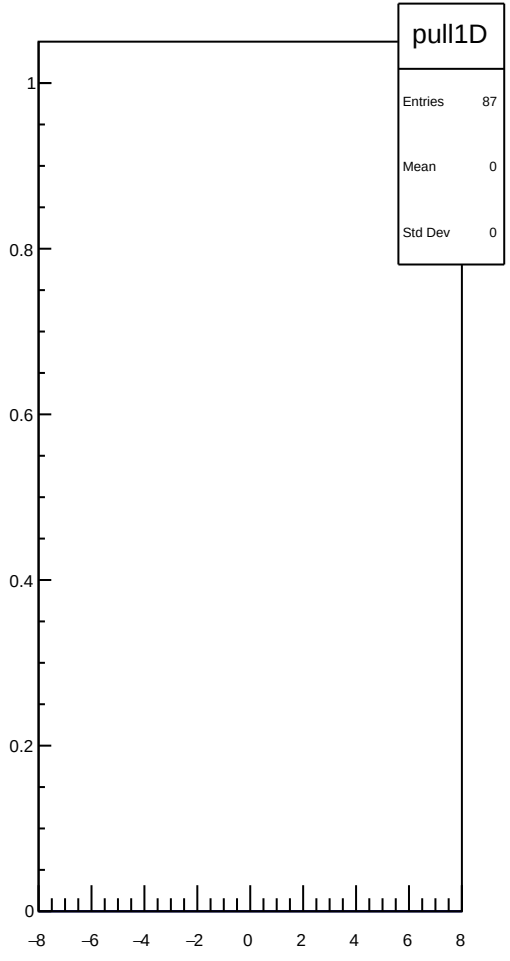

dit_atr2_coil7_mean vs run
×10^3
χ² / ndf inf / 86
p0 1.229e+05 ± 1.072e−16
128
126
124
122
120
118
×10^15
6000
4000
2000
0
−2000
−4000
pull
Entries 87
Mean −1.117e+09
Std Dev 1.117e+09

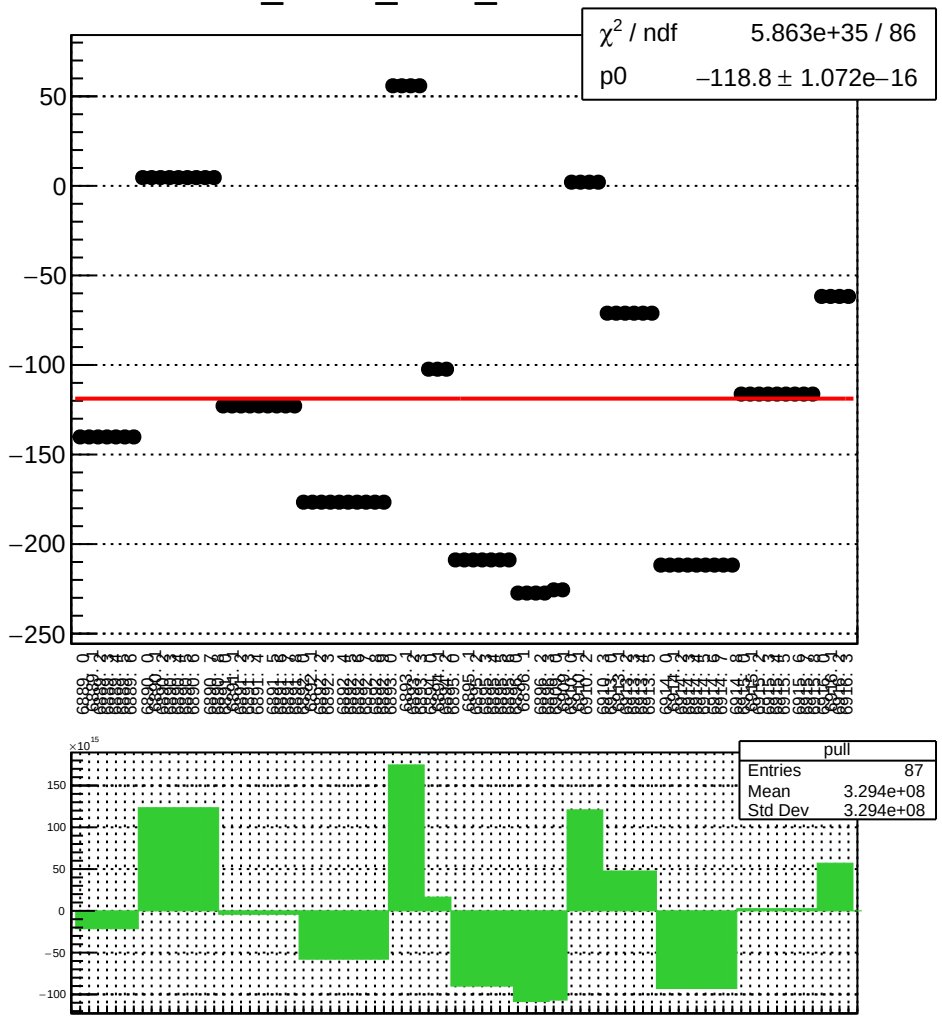

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

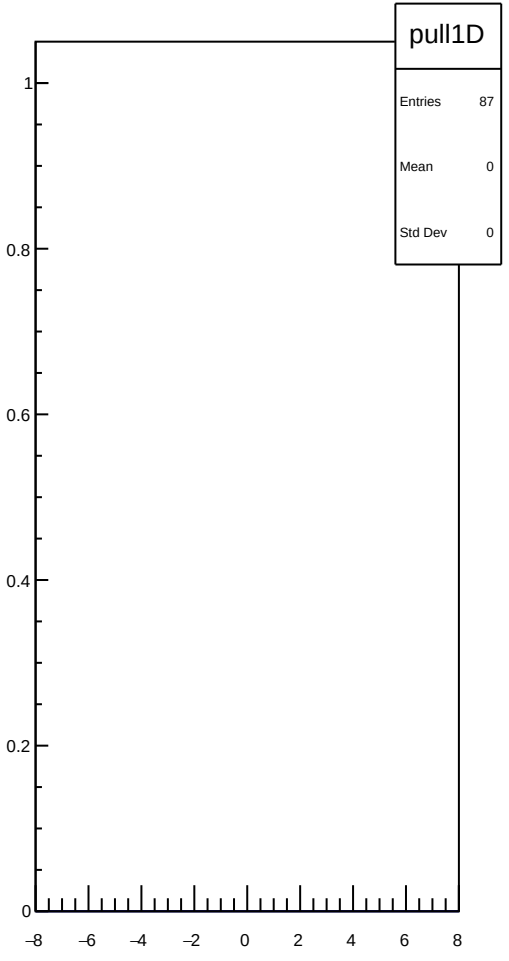

dit_atr2_coil7_err_mean vs run
χ² / ndf 3.242e+37 / 86
p0 2937 ± 1.072e−16
5000
4500
4000
3500
3000
2500
×10¹⁵
1500
1000
500
0
−500
pull
Entries 87
Mean 1.778e+09
Std Dev 1.778e+09

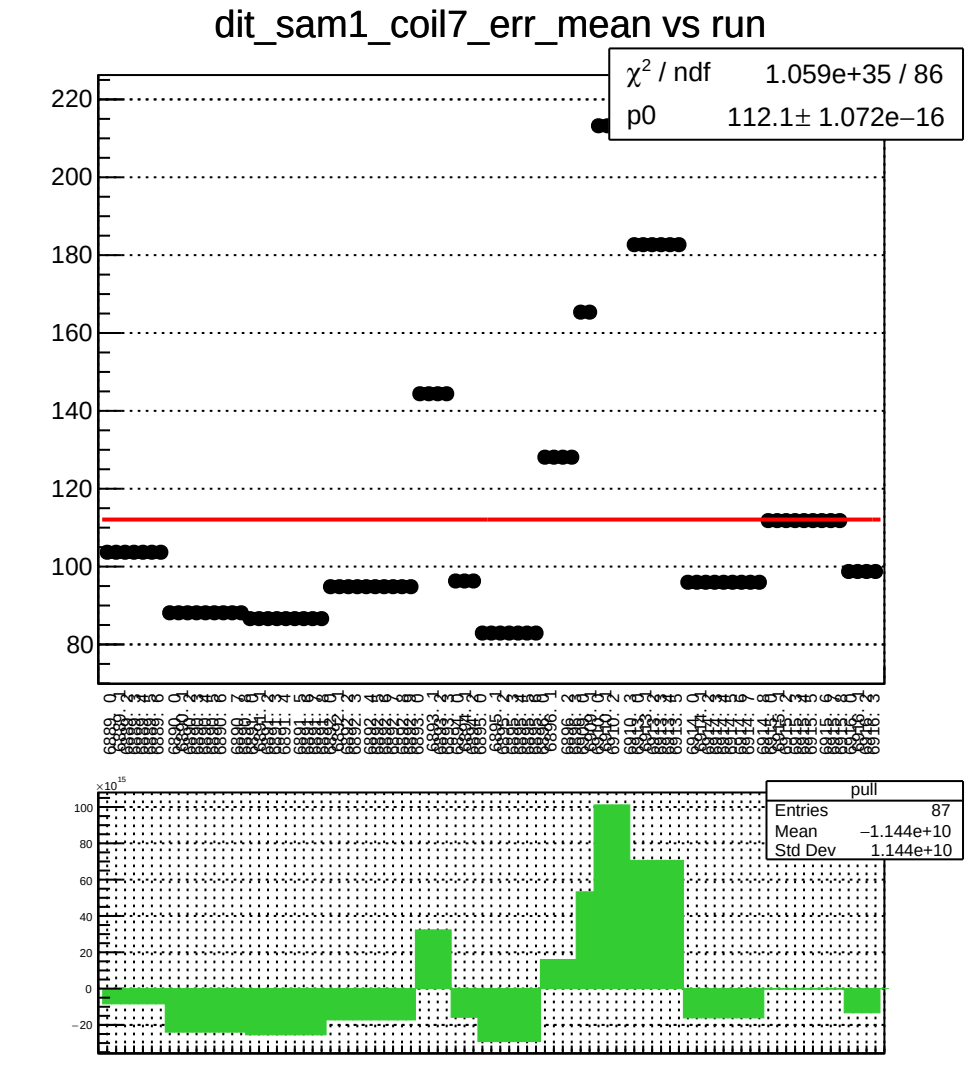

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

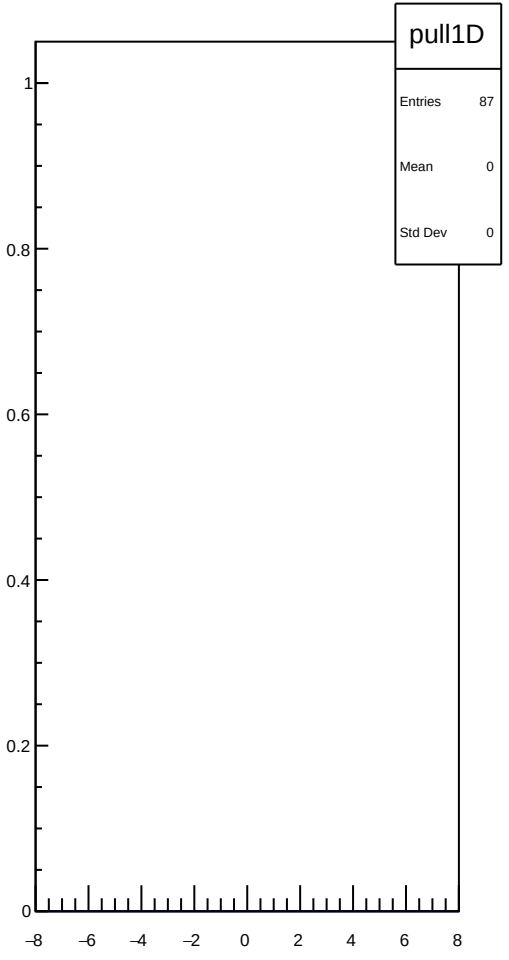

dit_atr2_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09

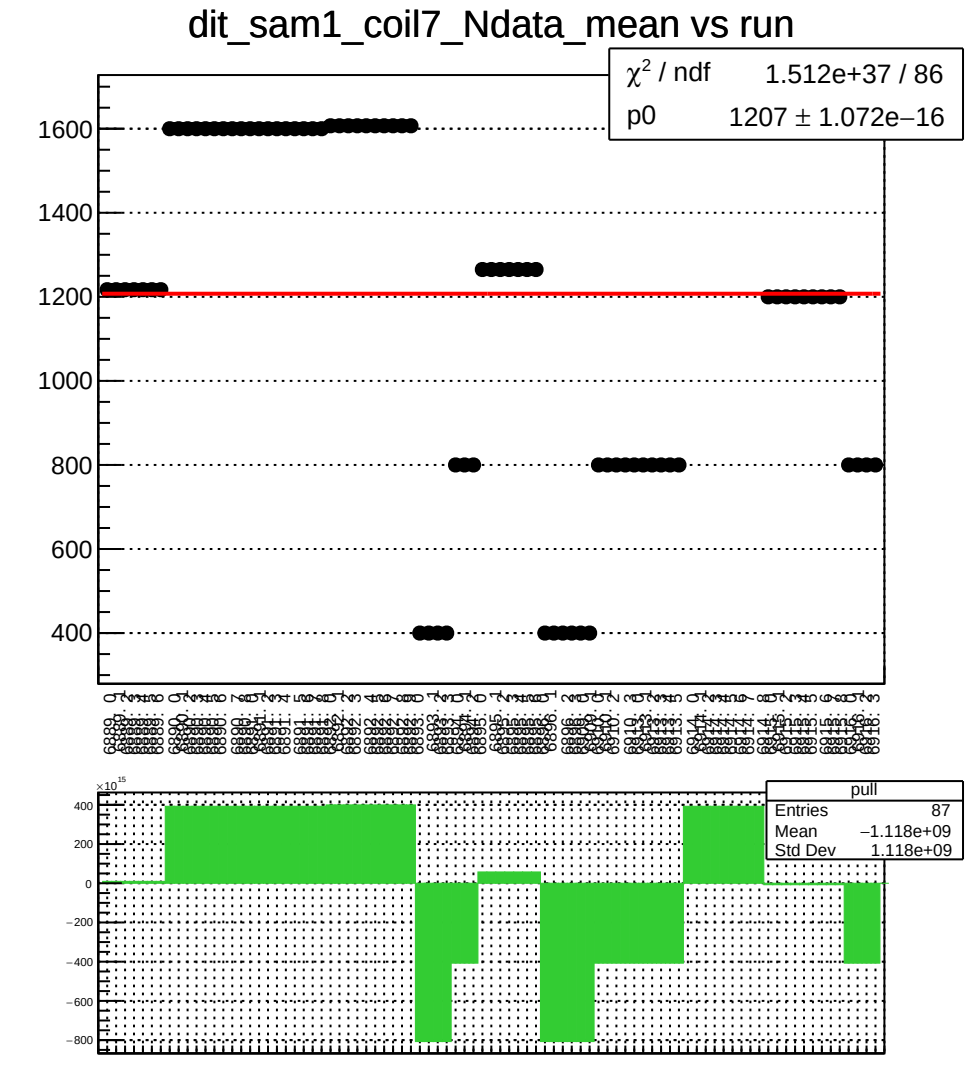

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

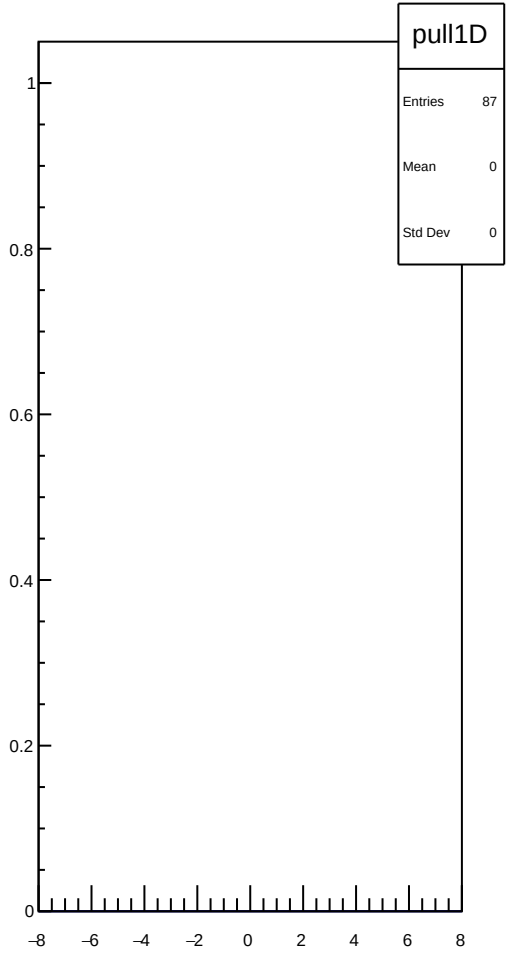

dit_sam1_coil7_mean vs run
χ² / ndf 5.863e+35 / 86
p0 −118.8 ± 1.072e−16
pull
Entries 87
Mean 3.294e+08
Std Dev 3.294e+08

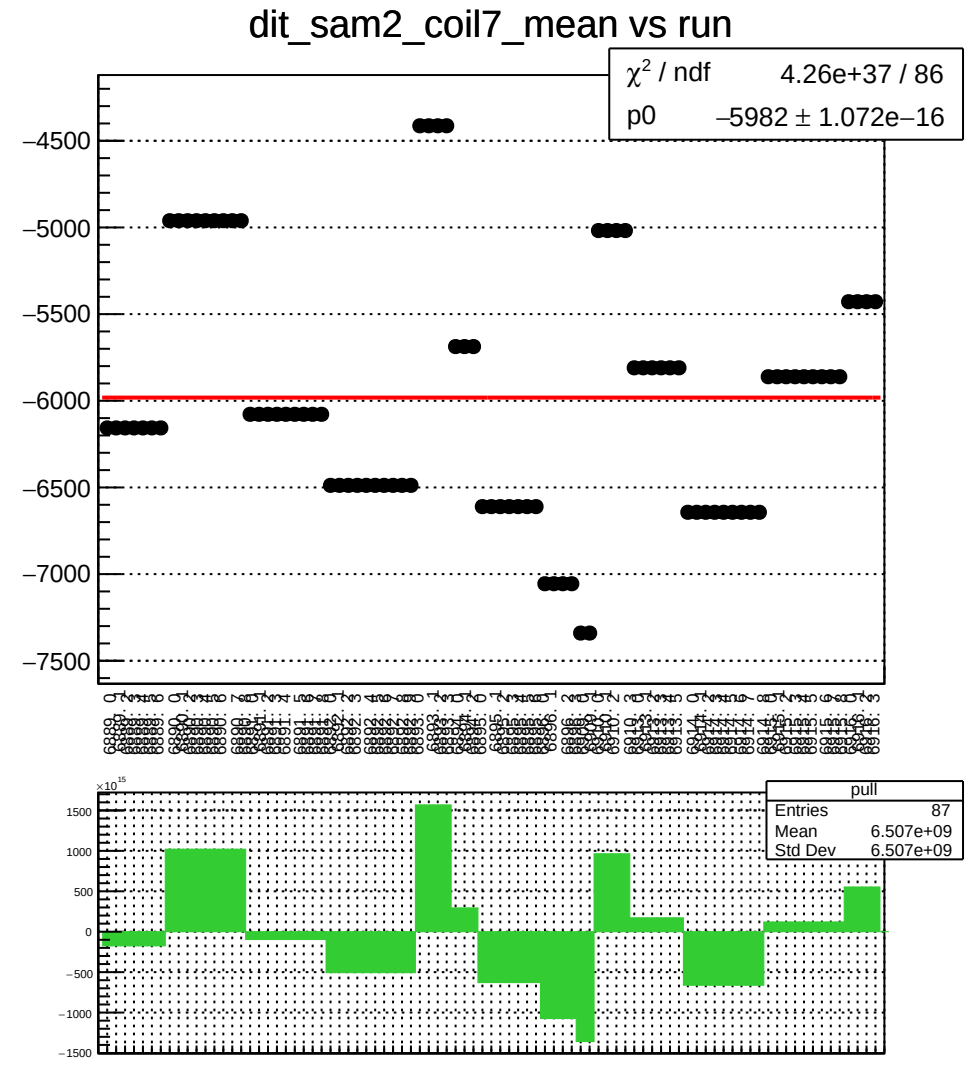

pull1D
Entries 87
Mean 0
Std Dev 0

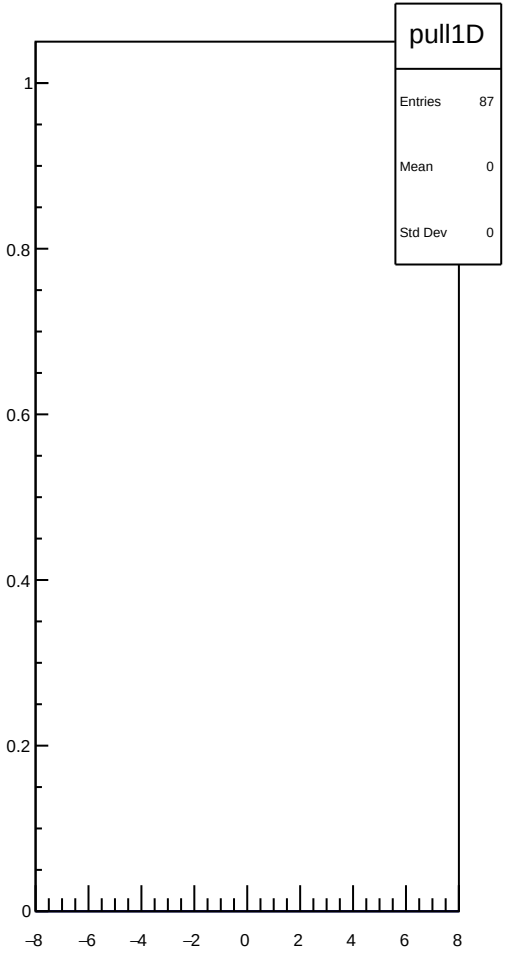

dit_sam1_coil7_err_mean vs run
χ² / ndf 1.059e+35 / 86
p0 112.1± 1.072e−16
220
200
180
160
140
120
100
80
pull
Entries 87
Mean −1.144e+10
Std Dev 1.144e+10
×10¹⁵
100
80
60
40
20
0
−20

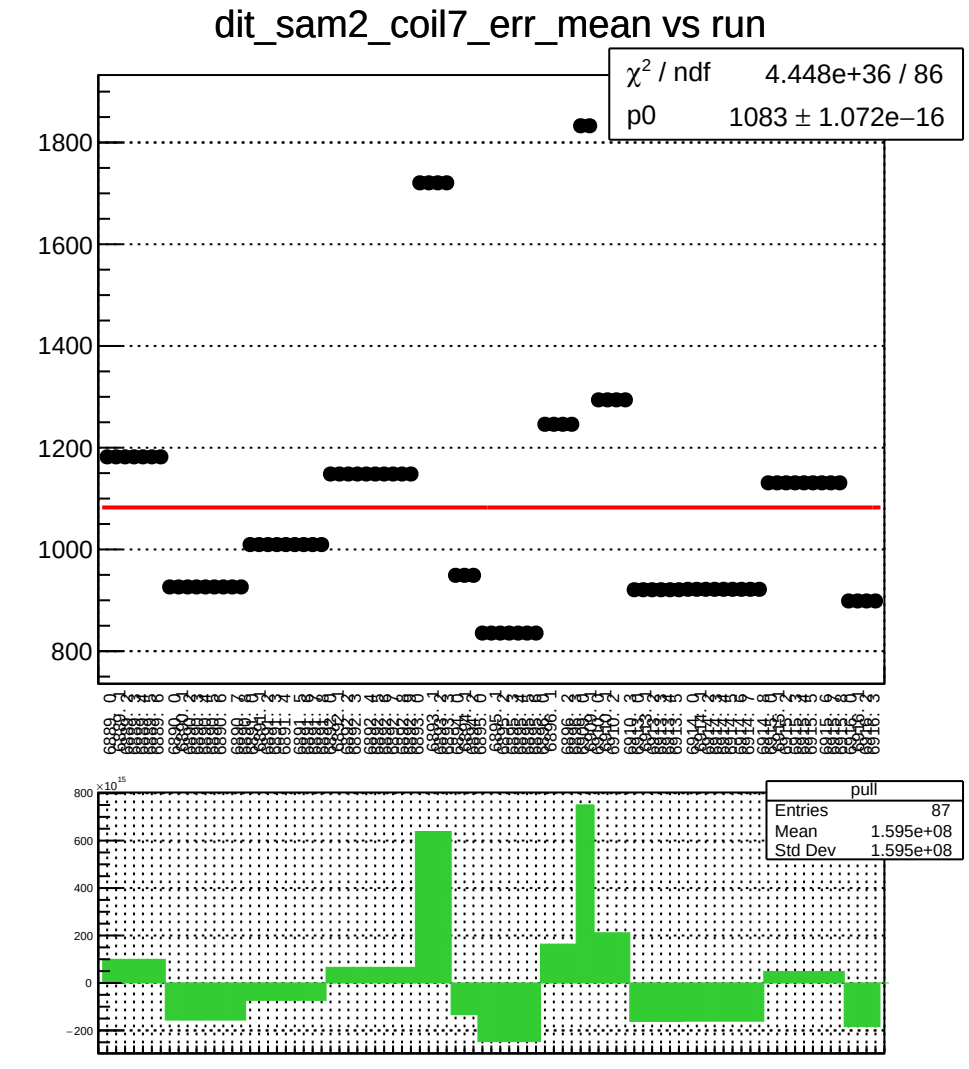

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

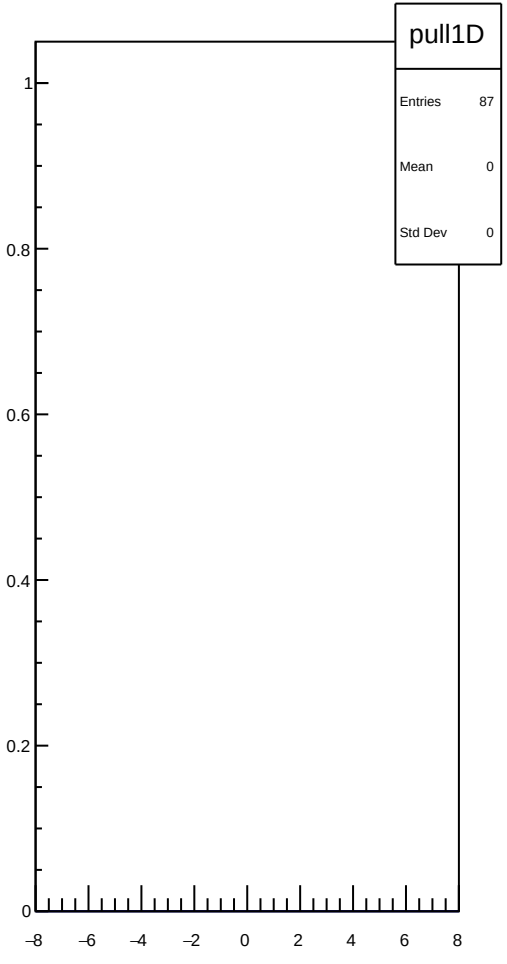

dit_sam1_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09

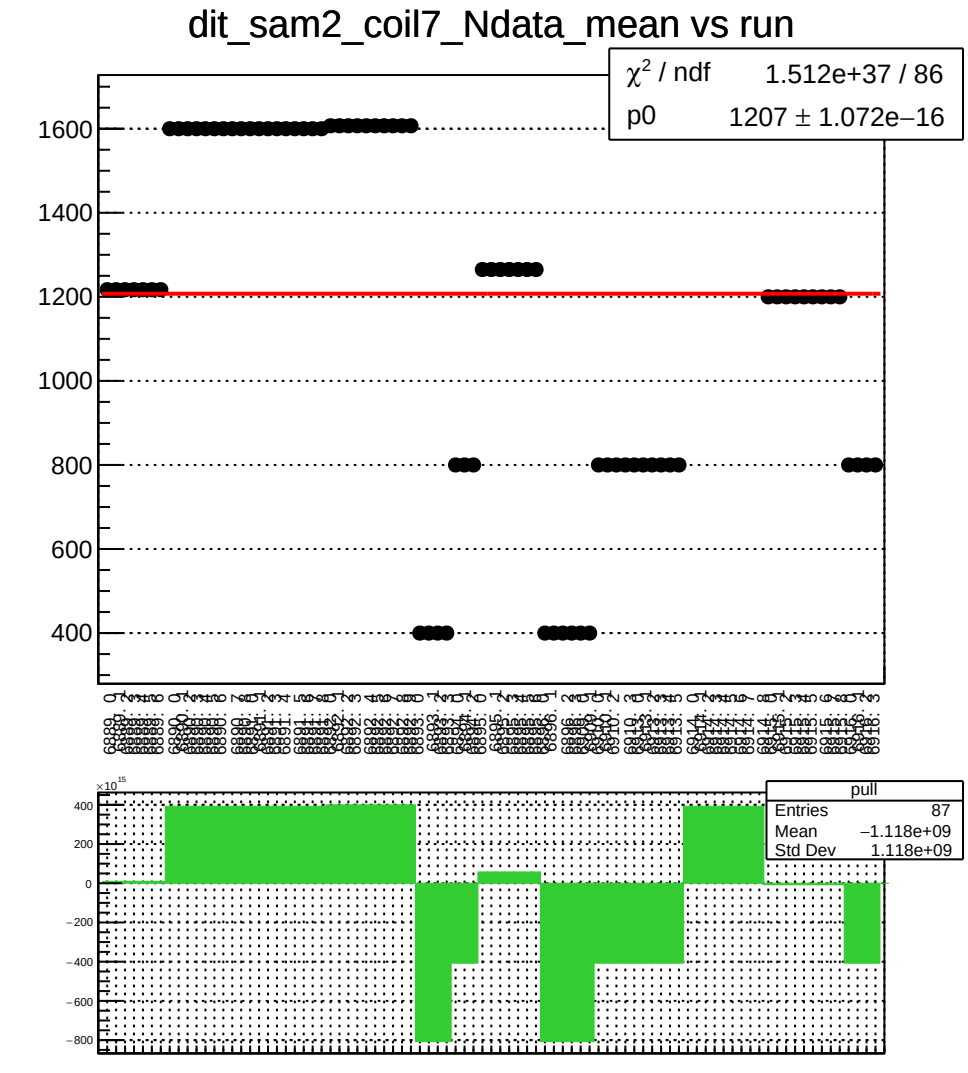

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

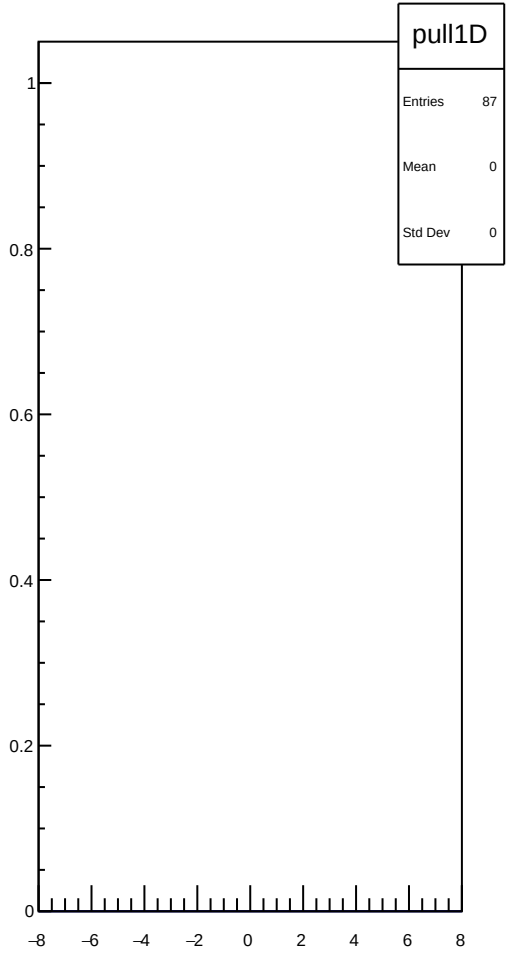

dit_sam2_coil7_mean vs run
χ² / ndf 4.26e+37 / 86
p0 −5982 ± 1.072e−16
−4500
−5000
−5500
−6000
−6500
−7000
−7500
×10¹⁵
1500
1000
500
0
−500
−1000
−1500
pull
Entries 87
Mean 6.507e+09
Std Dev 6.507e+09

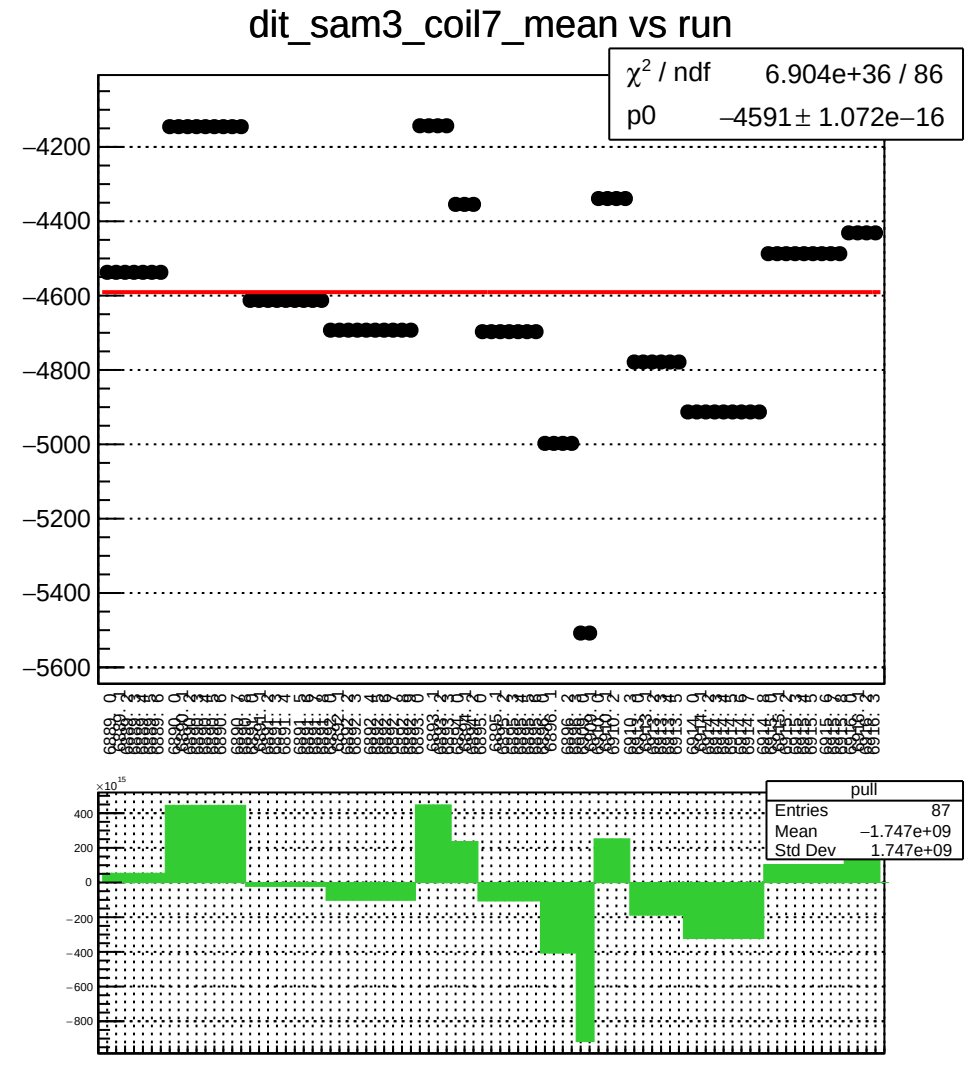

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

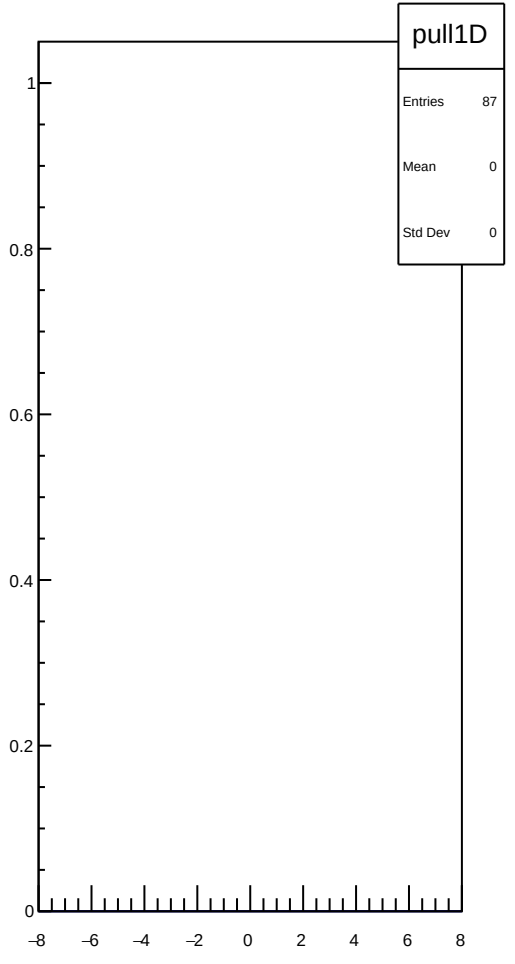

dit_sam2_coil7_err_mean vs run
χ² / ndf 4.448e+36 / 86
p0 1083 ± 1.072e−16
1800
1600
1400
1200
1000
800
pull
Entries 87
Mean 1.595e+08
Std Dev 1.595e+08
×10¹⁵
800
600
400
200
0
−200

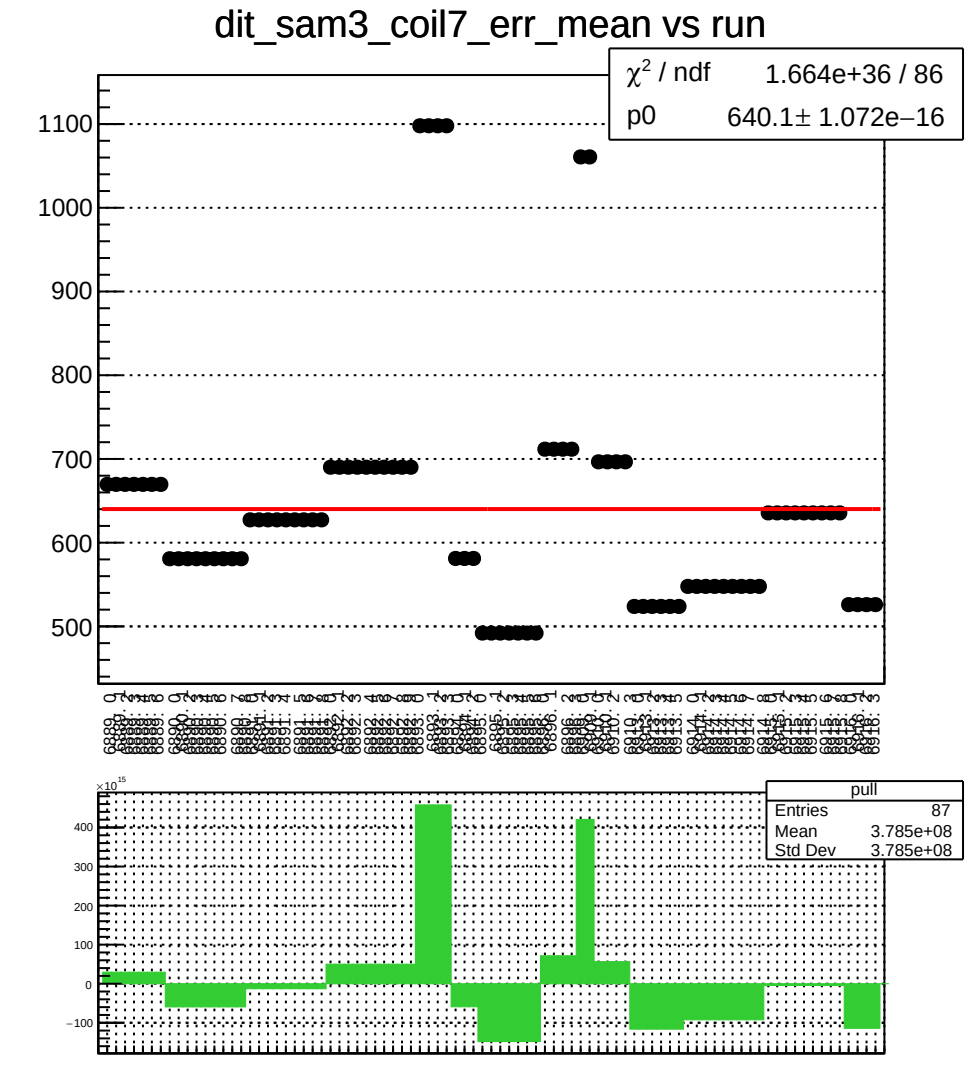

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

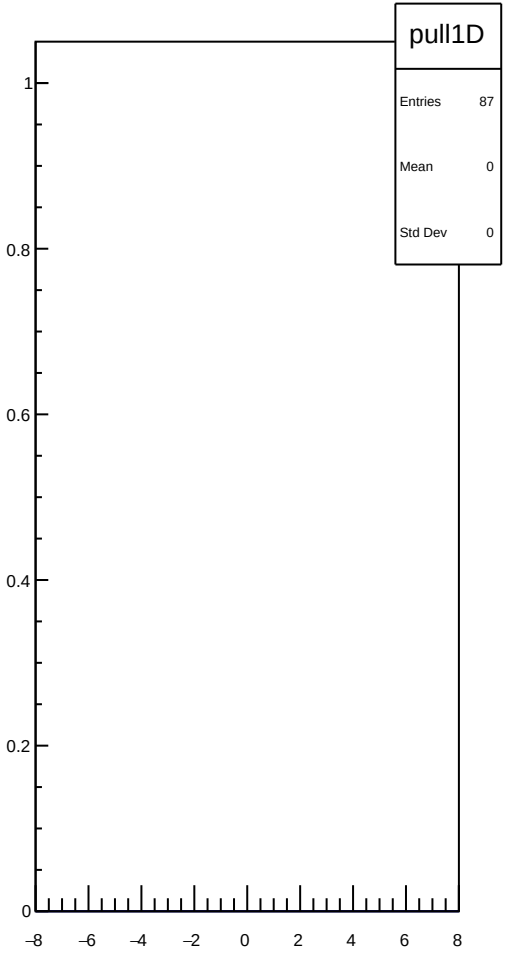

dit_sam2_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09

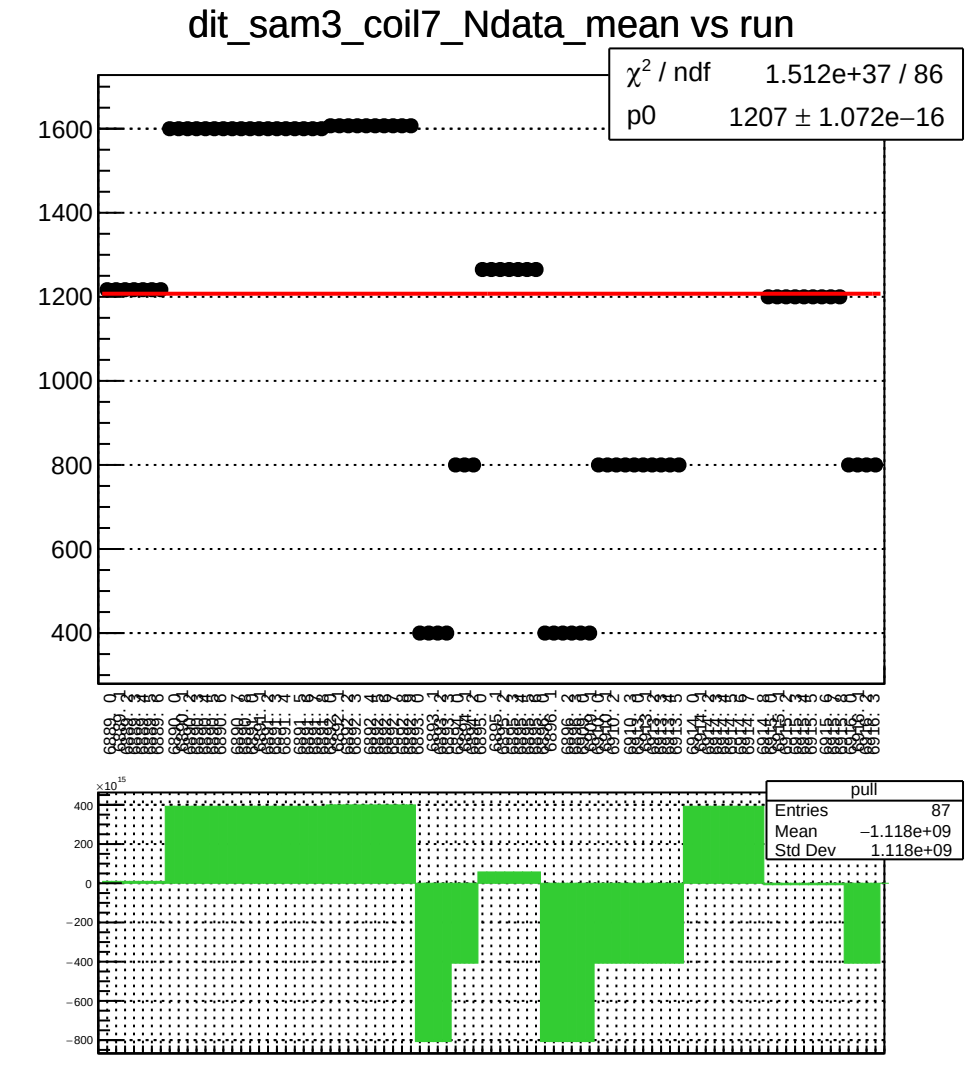

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

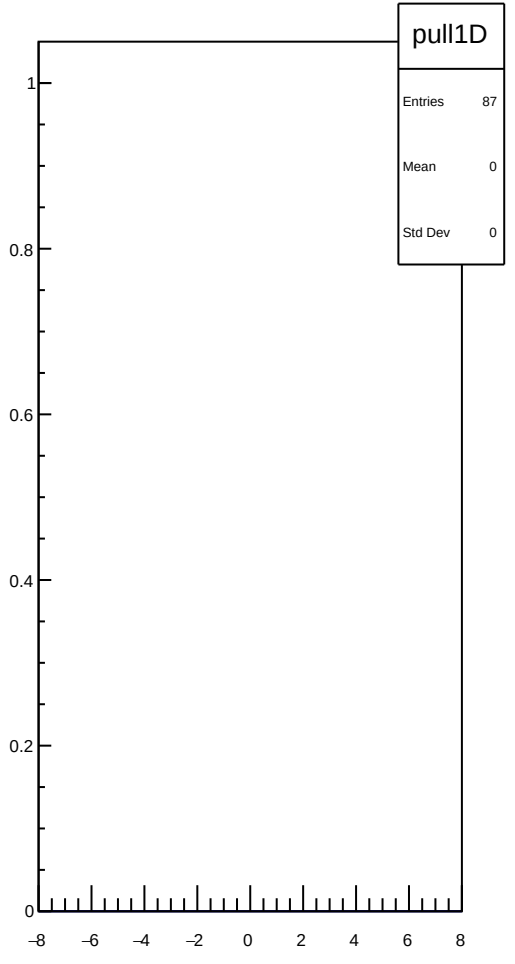

dit_sam3_coil7_mean vs run
χ² / ndf 6.904e+36 / 86
p0 −4591 ± 1.072e−16
−4200
−4400
−4600
−4800
−5000
−5200
−5400
−5600
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.747e+09
Std Dev 1.747e+09

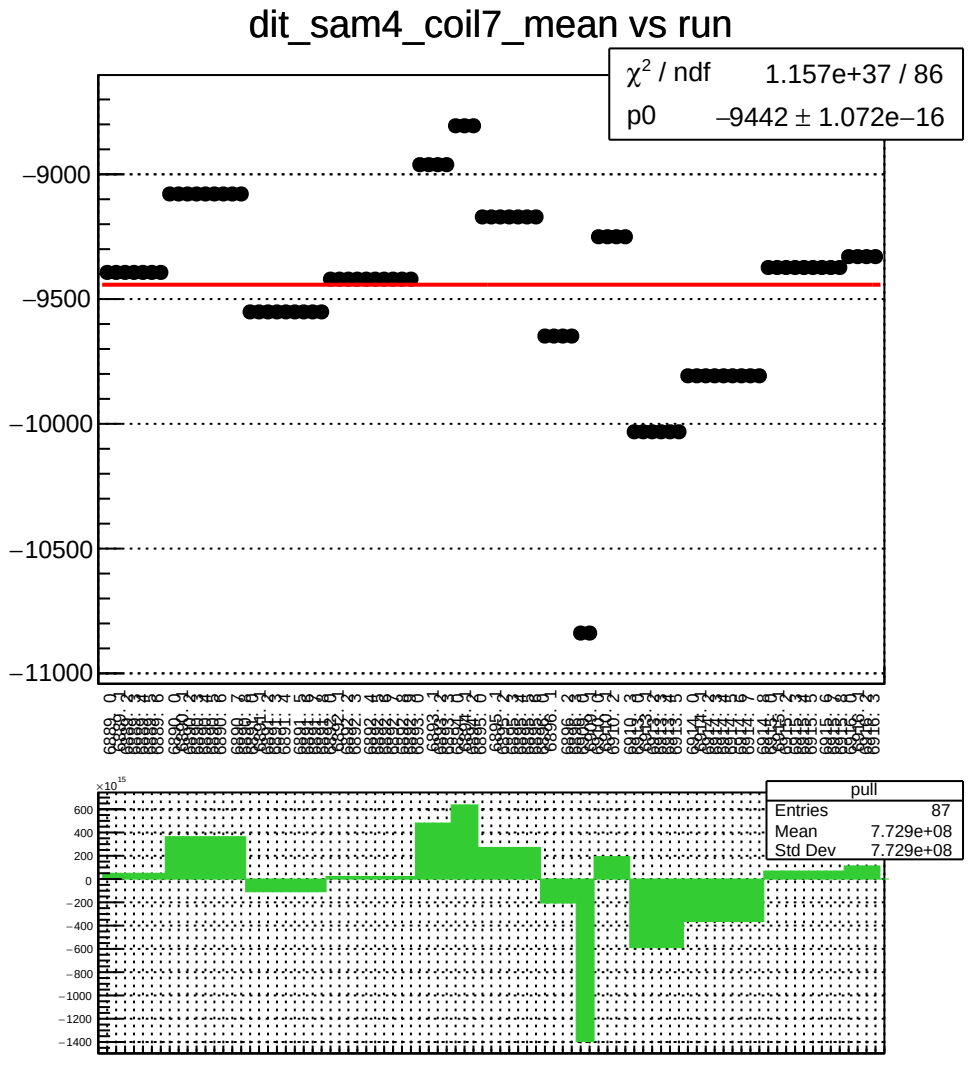

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

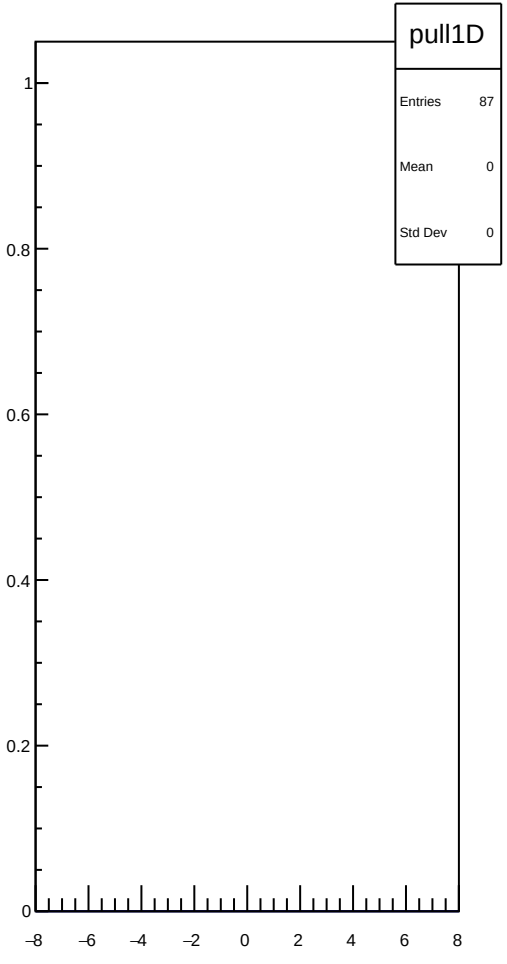

dit_sam3_coil7_err_mean vs run
χ² / ndf 1.664e+36 / 86
p0 640.1± 1.072e−16
1100
1000
900
800
700
600
500
pull
Entries 87
Mean 3.785e+08
Std Dev 3.785e+08
×10¹⁵
400
300
200
100
0
−100

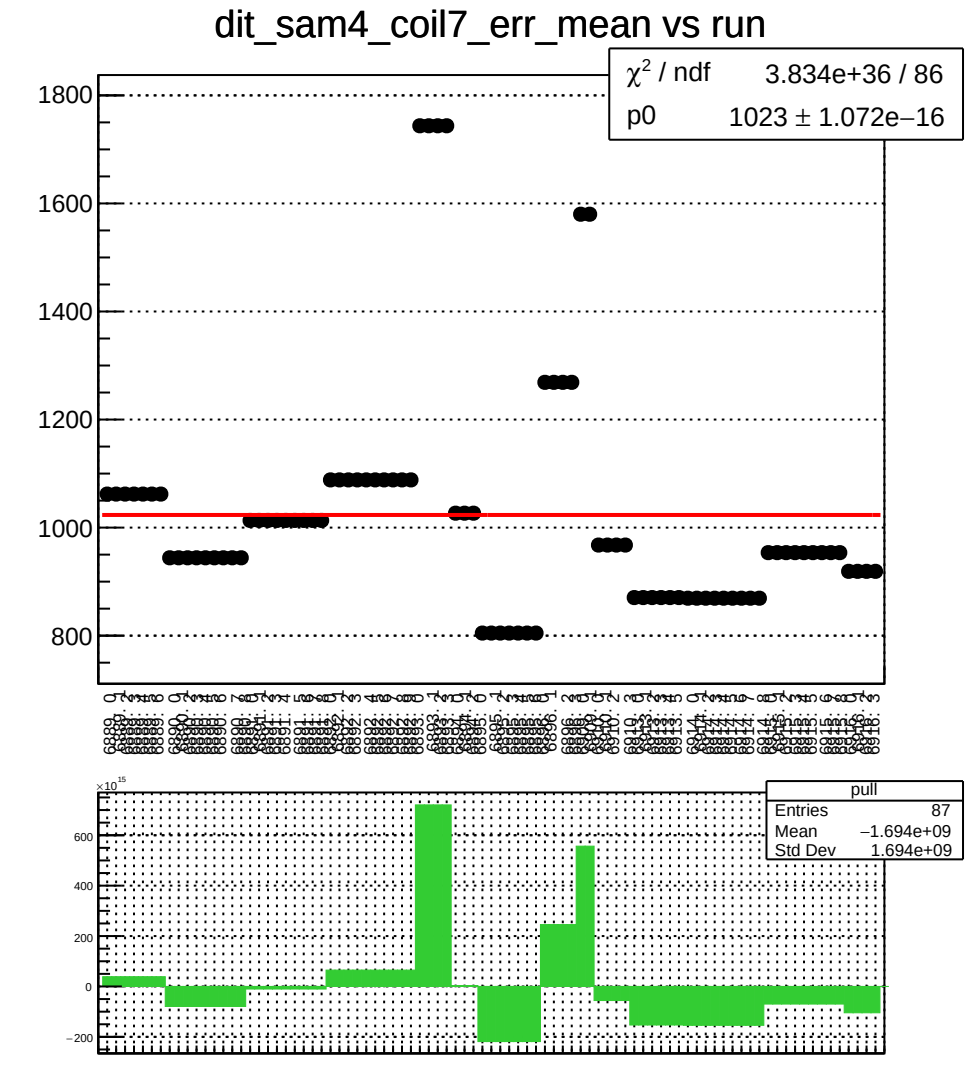

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

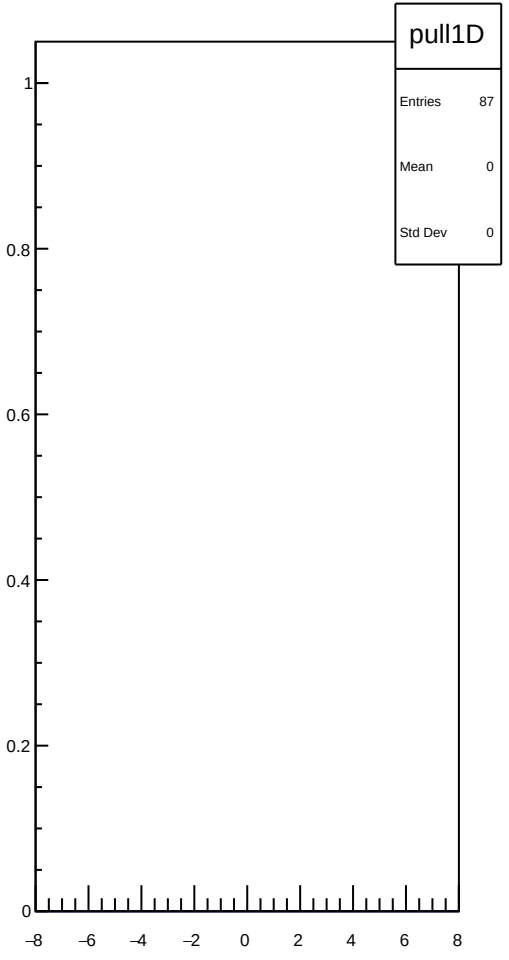

dit_sam3_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09

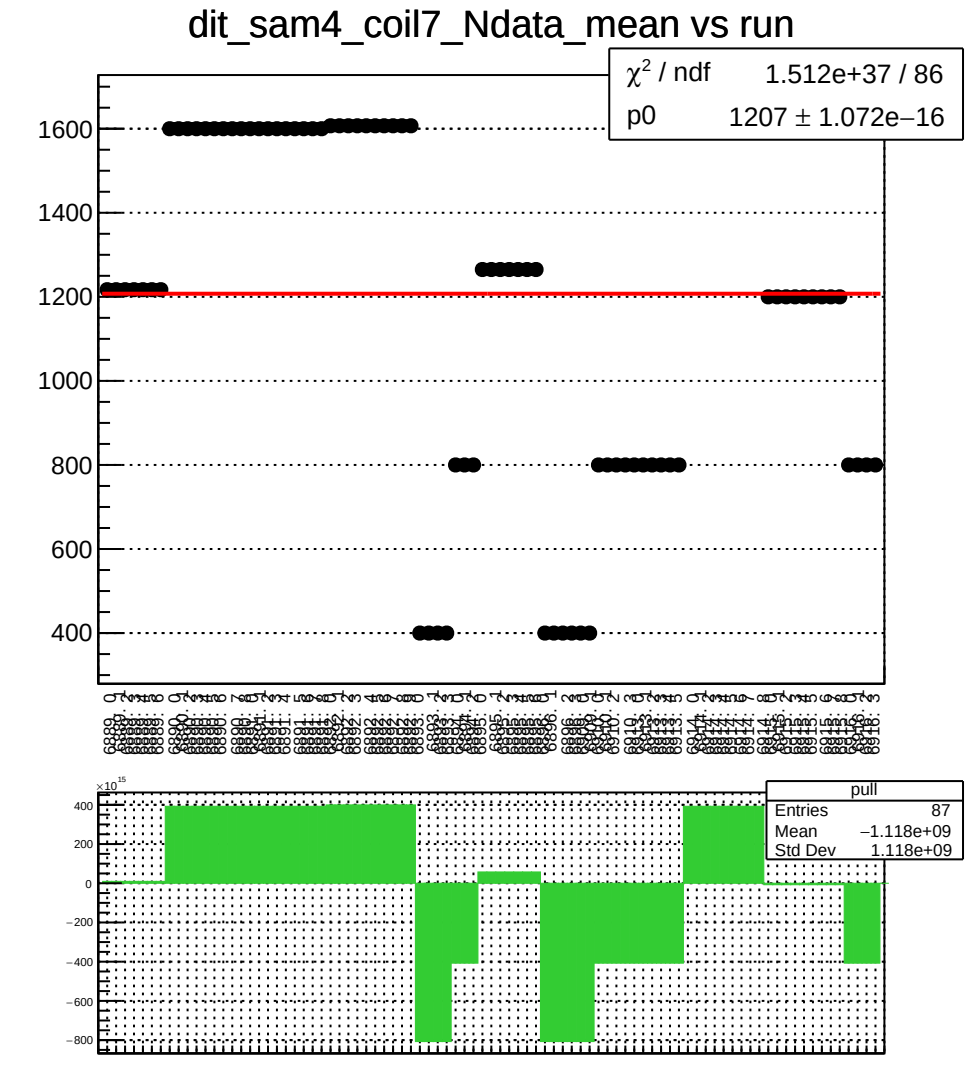

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

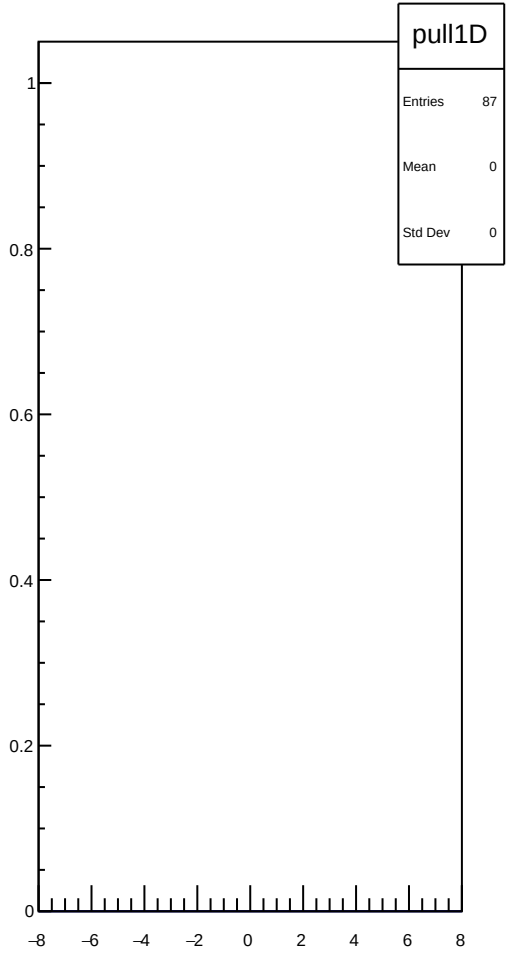

dit_sam4_coil7_mean vs run
χ² / ndf 1.157e+37 / 86
p0 −9442 ± 1.072e−16
−9000
−9500
−10000
−10500
−11000
pull
Entries 87
Mean 7.729e+08
Std Dev 7.729e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

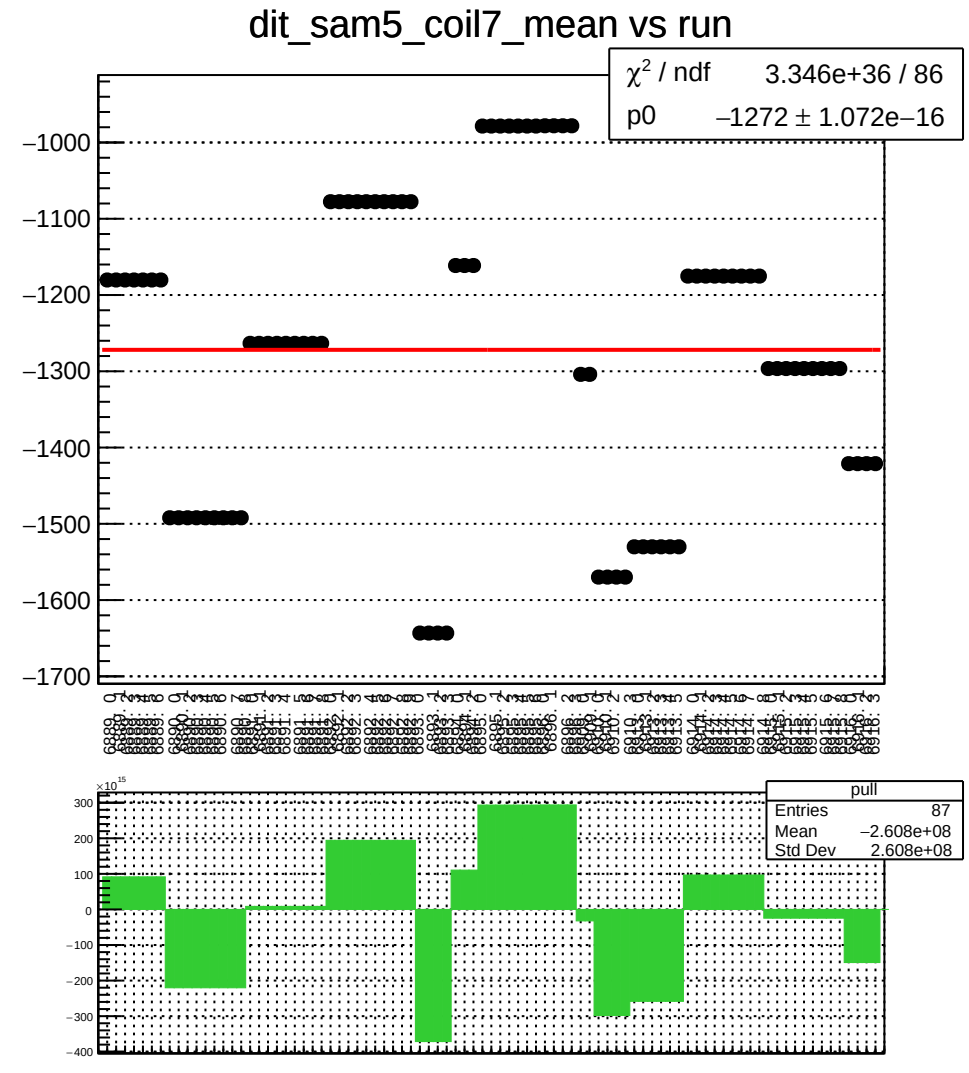

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

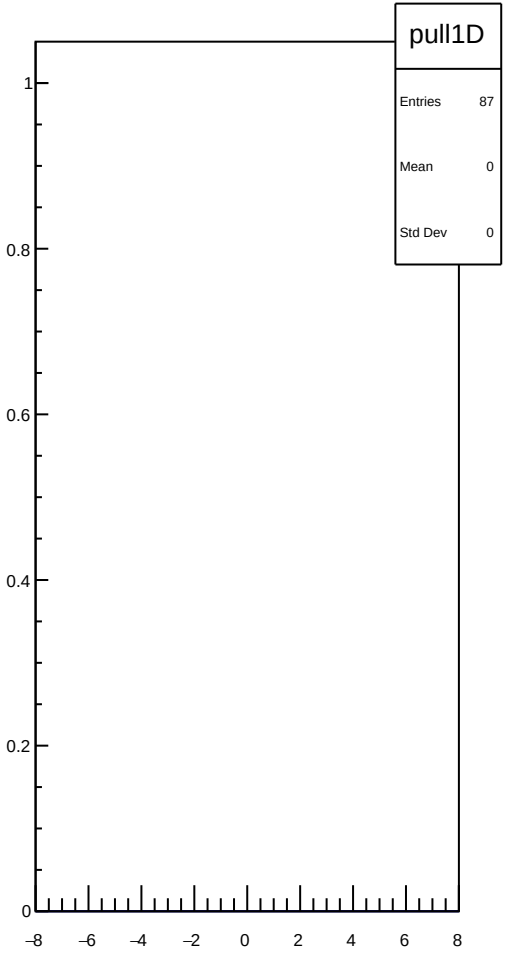

dit_sam4_coil7_err_mean vs run
χ² / ndf 3.834e+36 / 86
p0 1023 ± 1.072e−16
1800
1600
1400
1200
1000
800
pull
Entries 87
Mean −1.694e+09
Std Dev 1.694e+09
×10¹⁵
600
400
200
0
−200

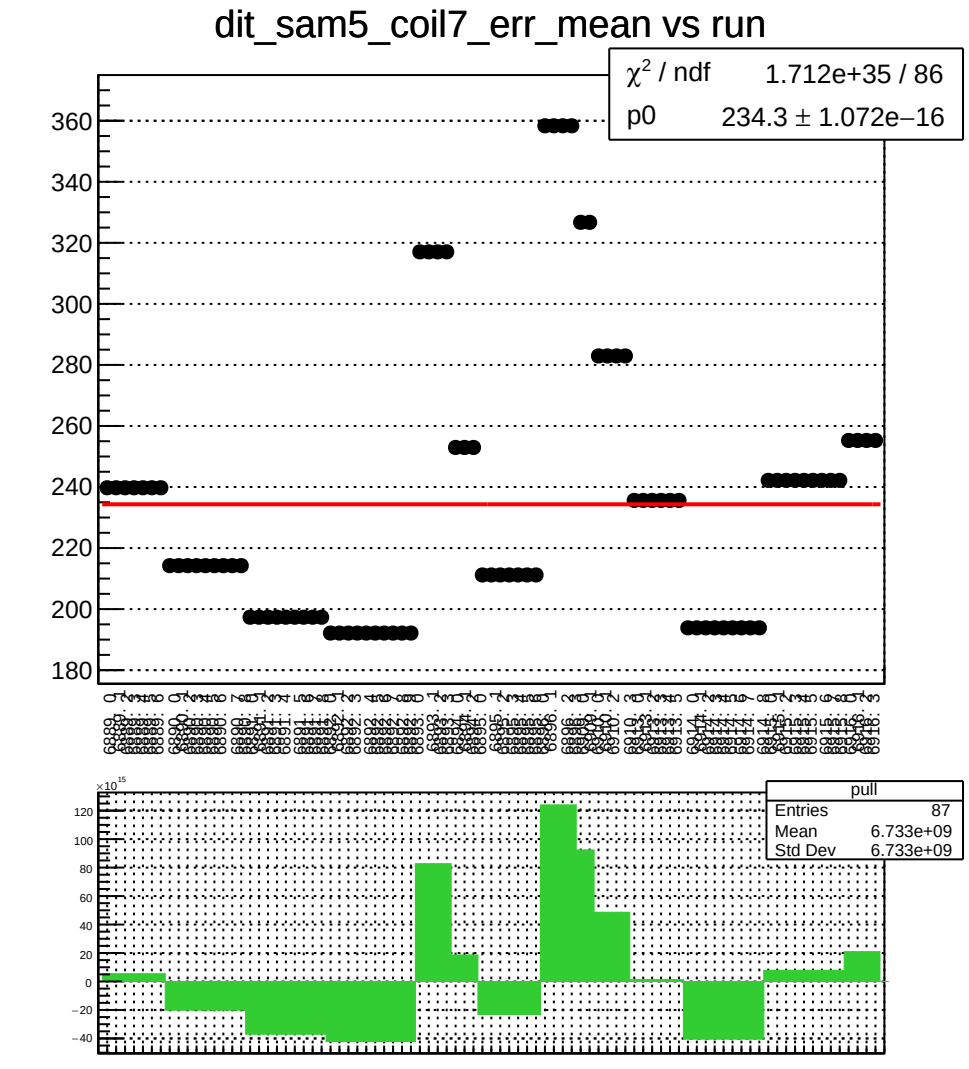

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

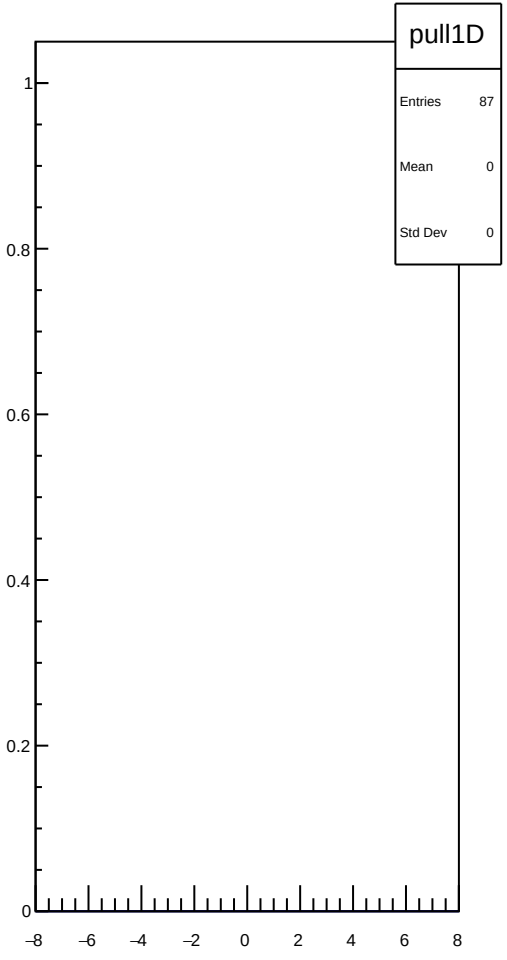

dit_sam4_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09

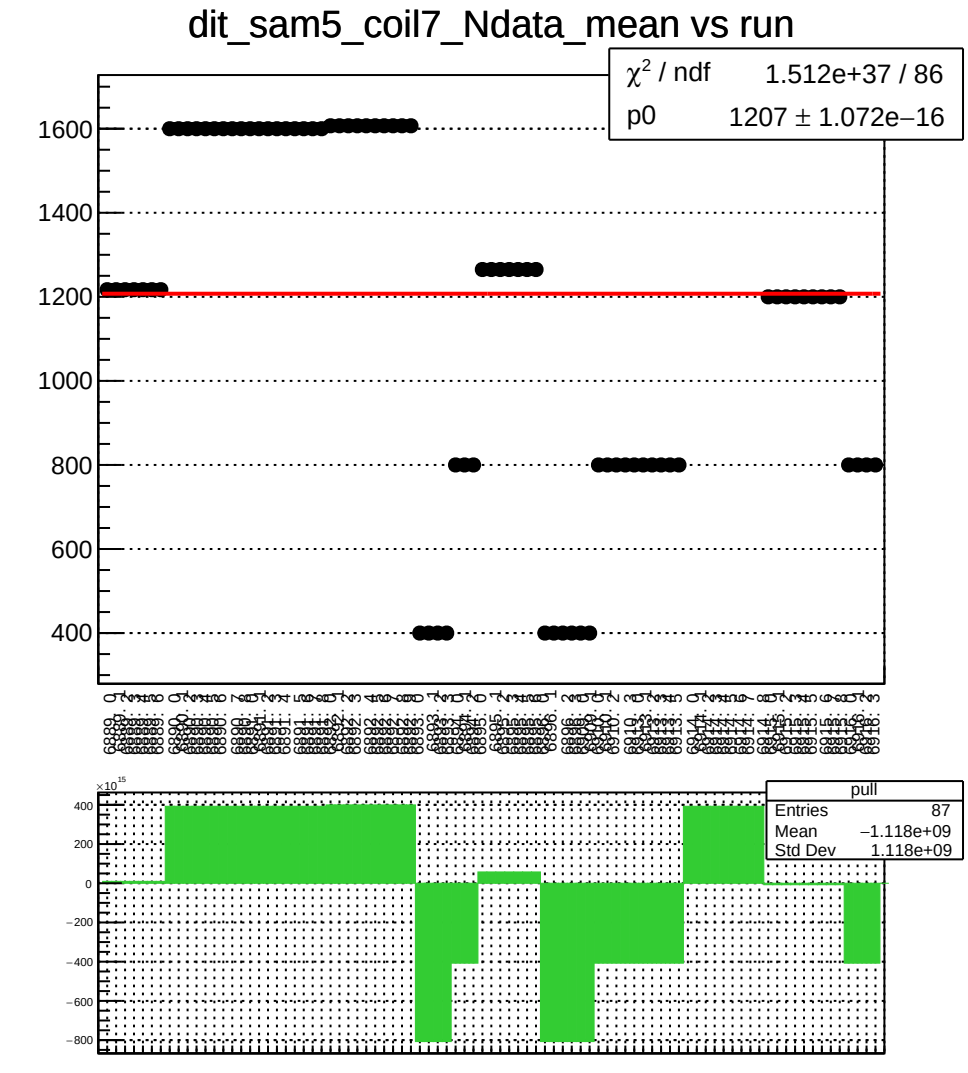

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

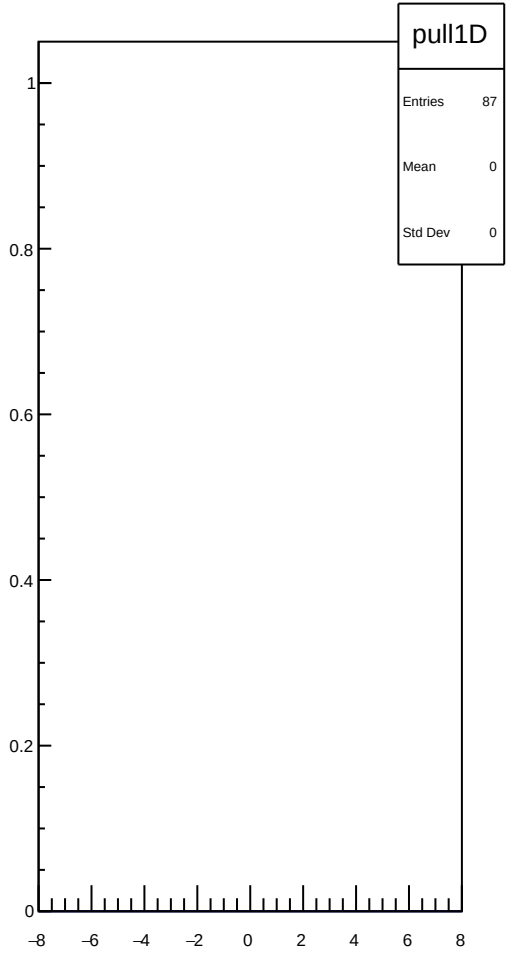

dit_sam5_coil7_mean vs run
χ² / ndf 3.346e+36 / 86
p0 −1272 ± 1.072e−16
−1000
−1100
−1200
−1300
−1400
−1500
−1600
−1700
pull
Entries 87
Mean −2.608e+08
Std Dev 2.608e+08
×10¹⁵
300
200
100
0
−100
−200
−300
−400

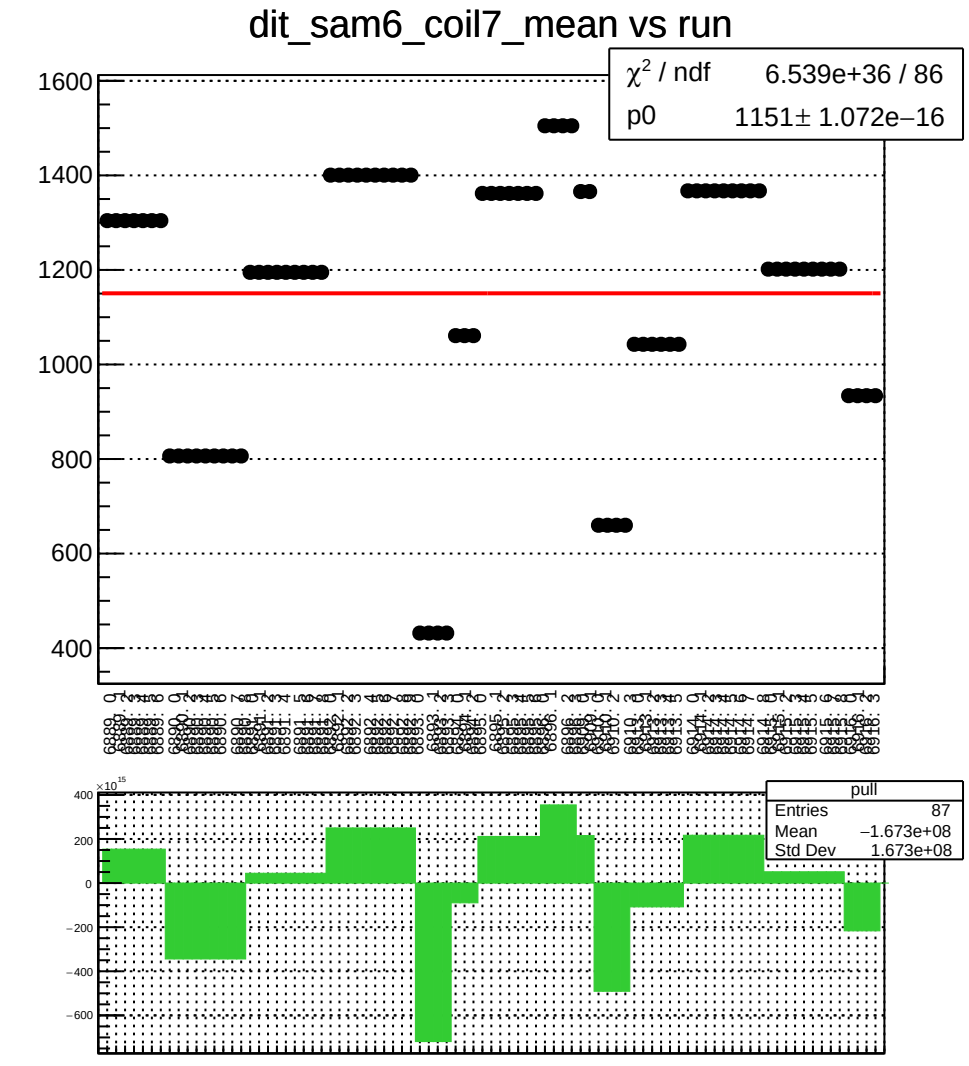

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

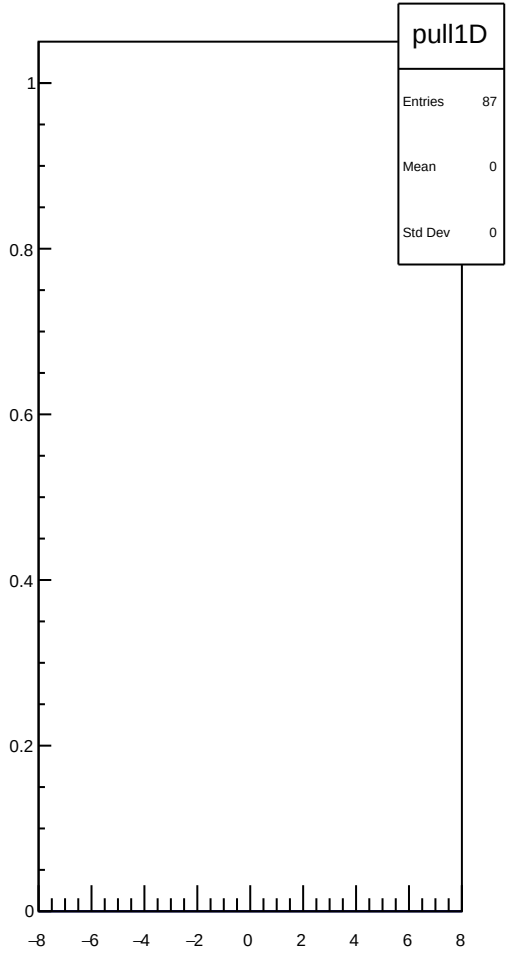

dit_sam5_coil7_err_mean vs run
χ² / ndf 1.712e+35 / 86
p0 234.3 ± 1.072e−16
360
340
320
300
280
260
240
220
200
180
pull
Entries 87
Mean 6.733e+09
Std Dev 6.733e+09
×10¹⁵
120
100
80
60
40
20
0
−20
−40

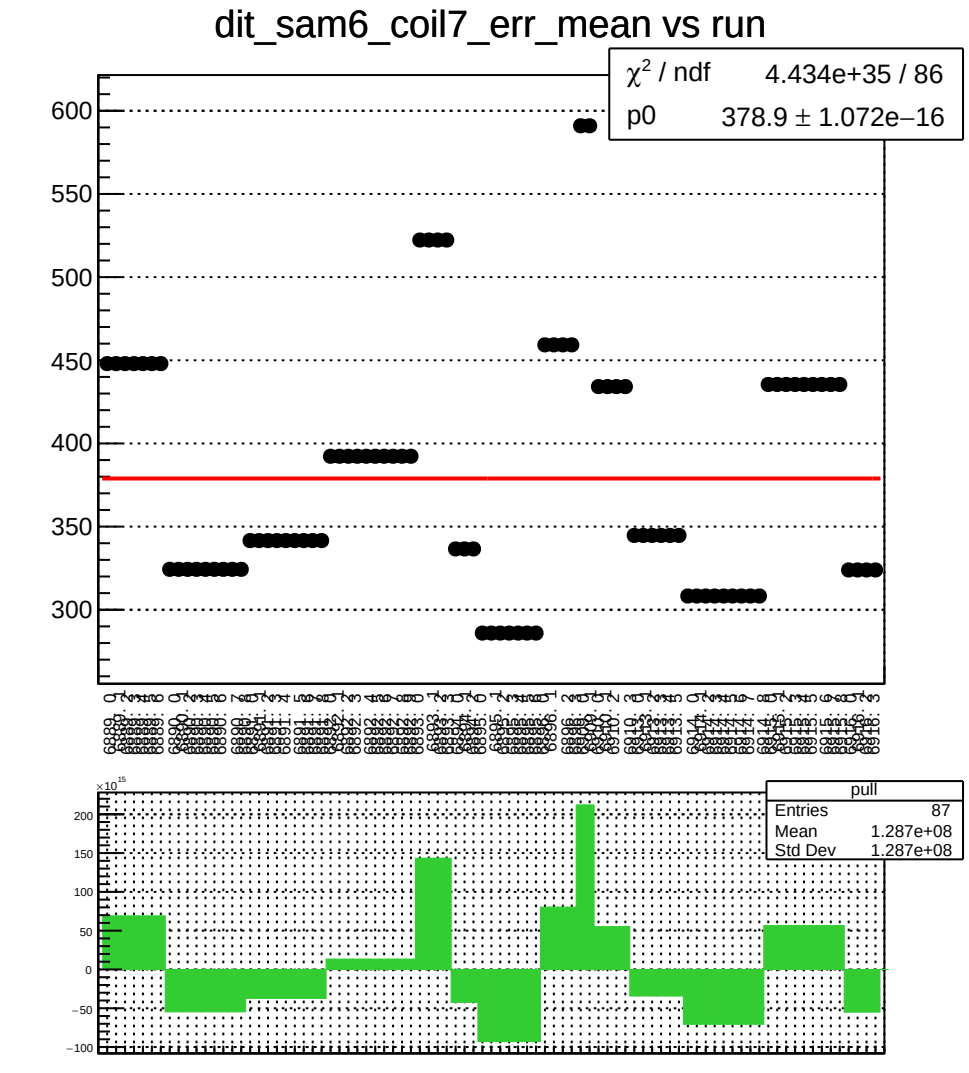

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

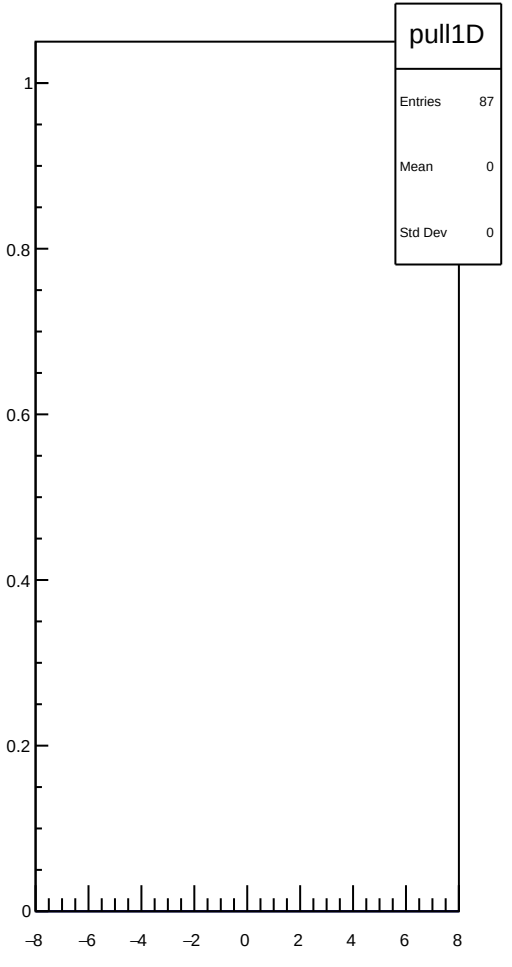

dit_sam5_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09

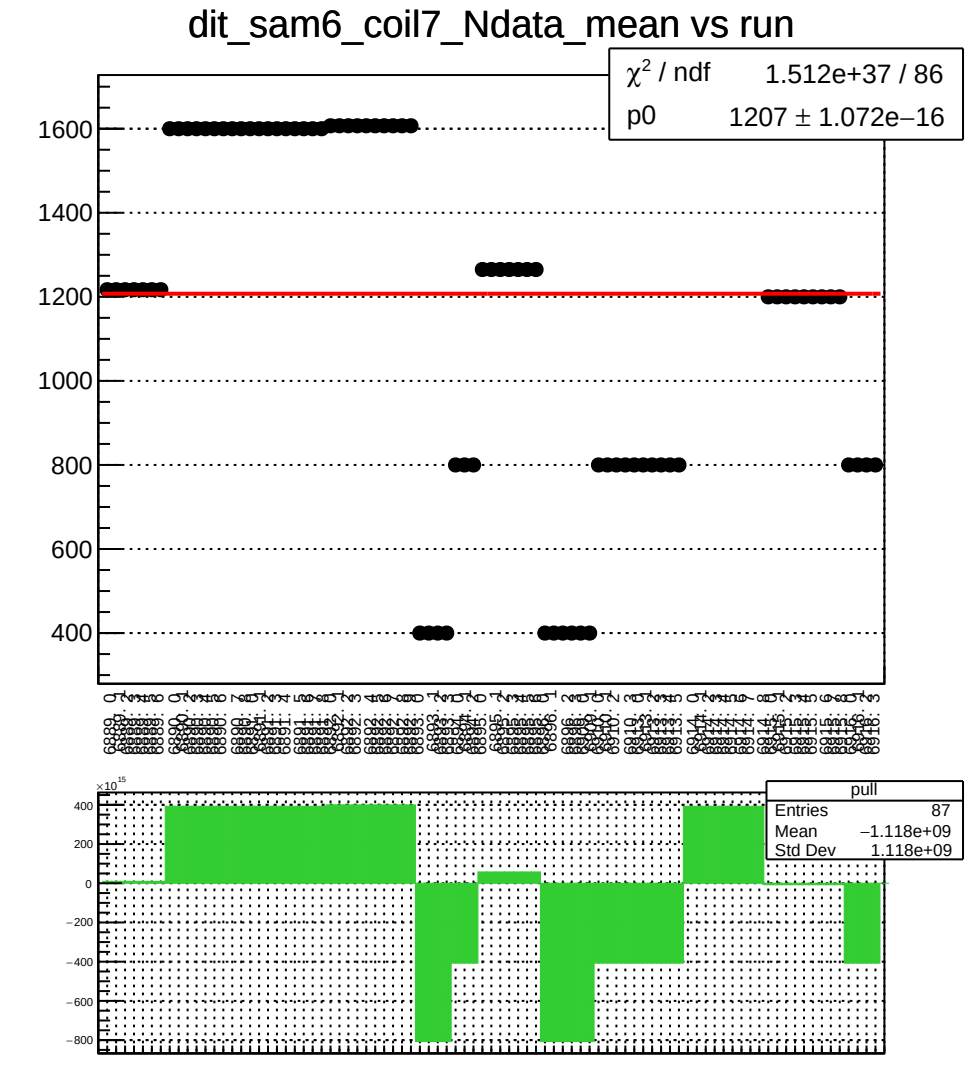

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

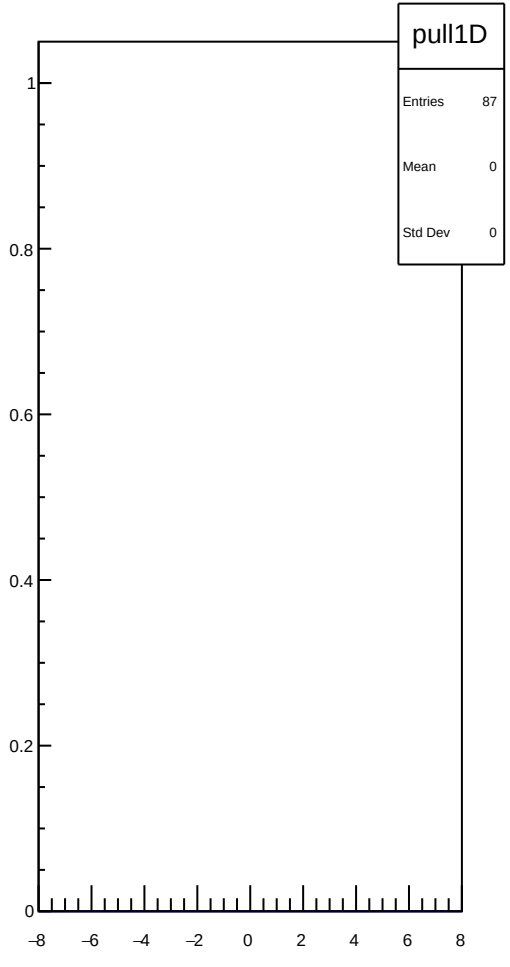

dit_sam6_coil7_mean vs run
χ² / ndf 6.539e+36 / 86
p0 1151± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
pull
Entries 87
Mean −1.673e+08
Std Dev 1.673e+08

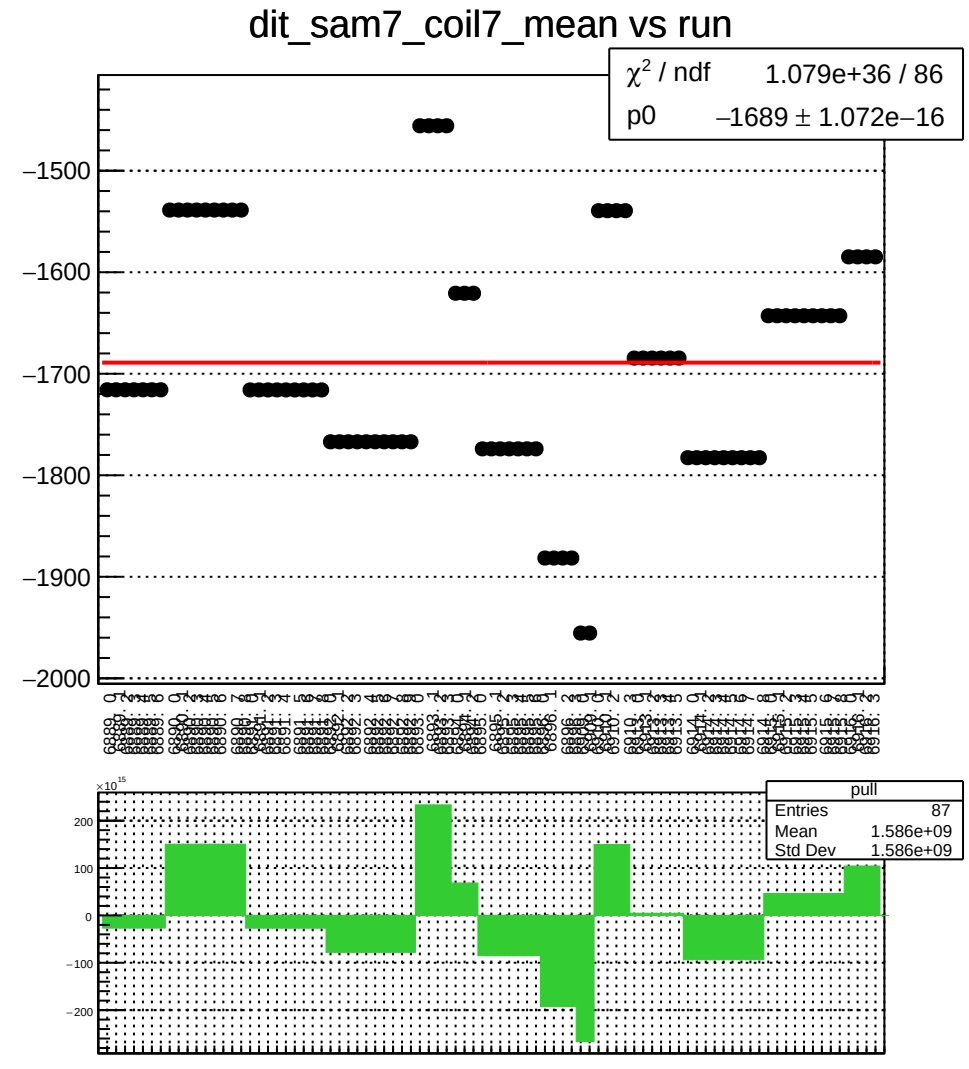

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

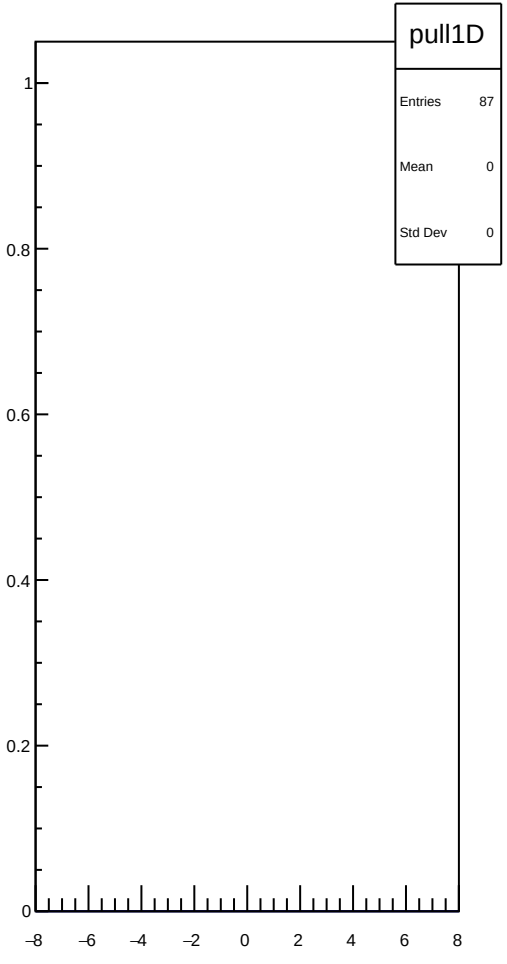

dit_sam6_coil7_err_mean vs run
χ² / ndf 4.434e+35 / 86
p0 378.9 ± 1.072e−16
600
550
500
450
400
350
300
pull
Entries 87
Mean 1.287e+08
Std Dev 1.287e+08
×10¹⁵
200
150
100
50
0
−50
−100

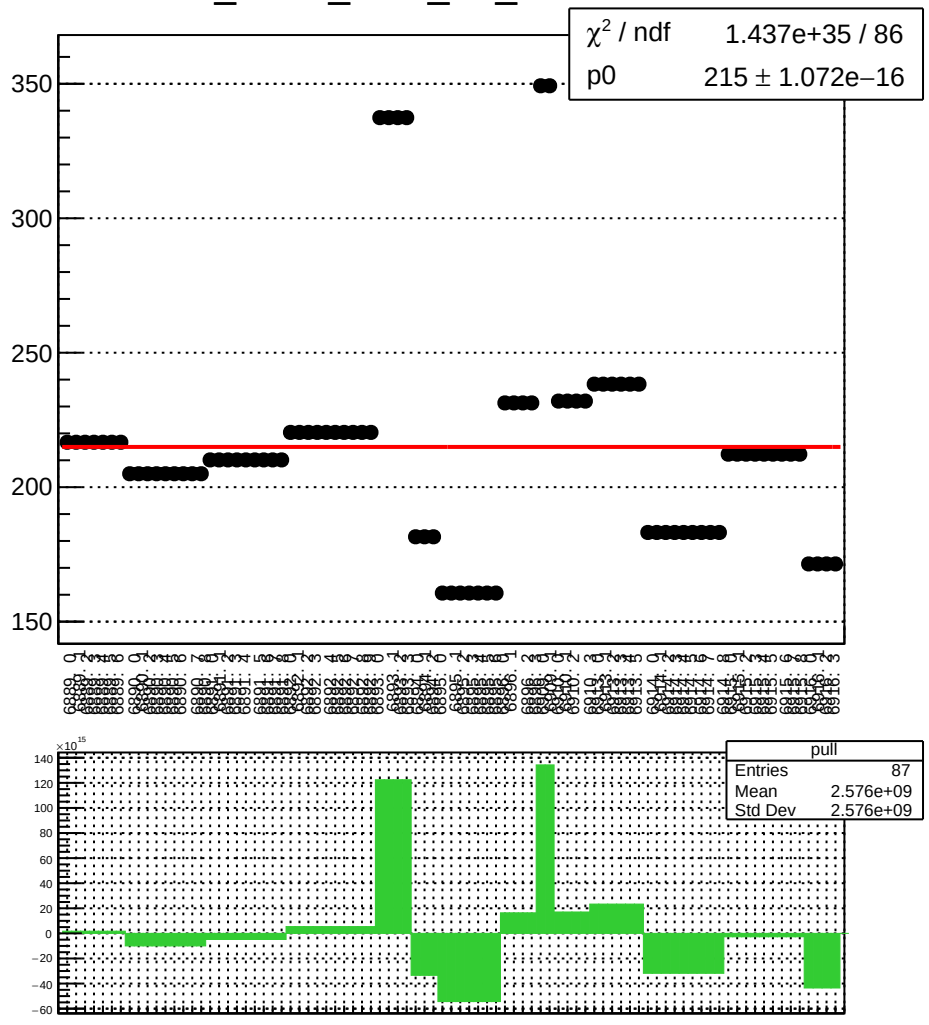

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

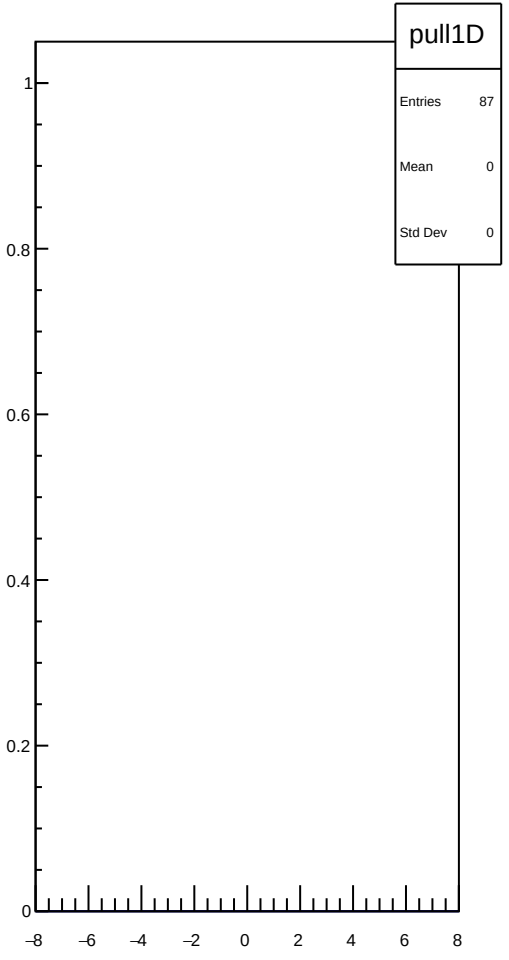

dit_sam6_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09

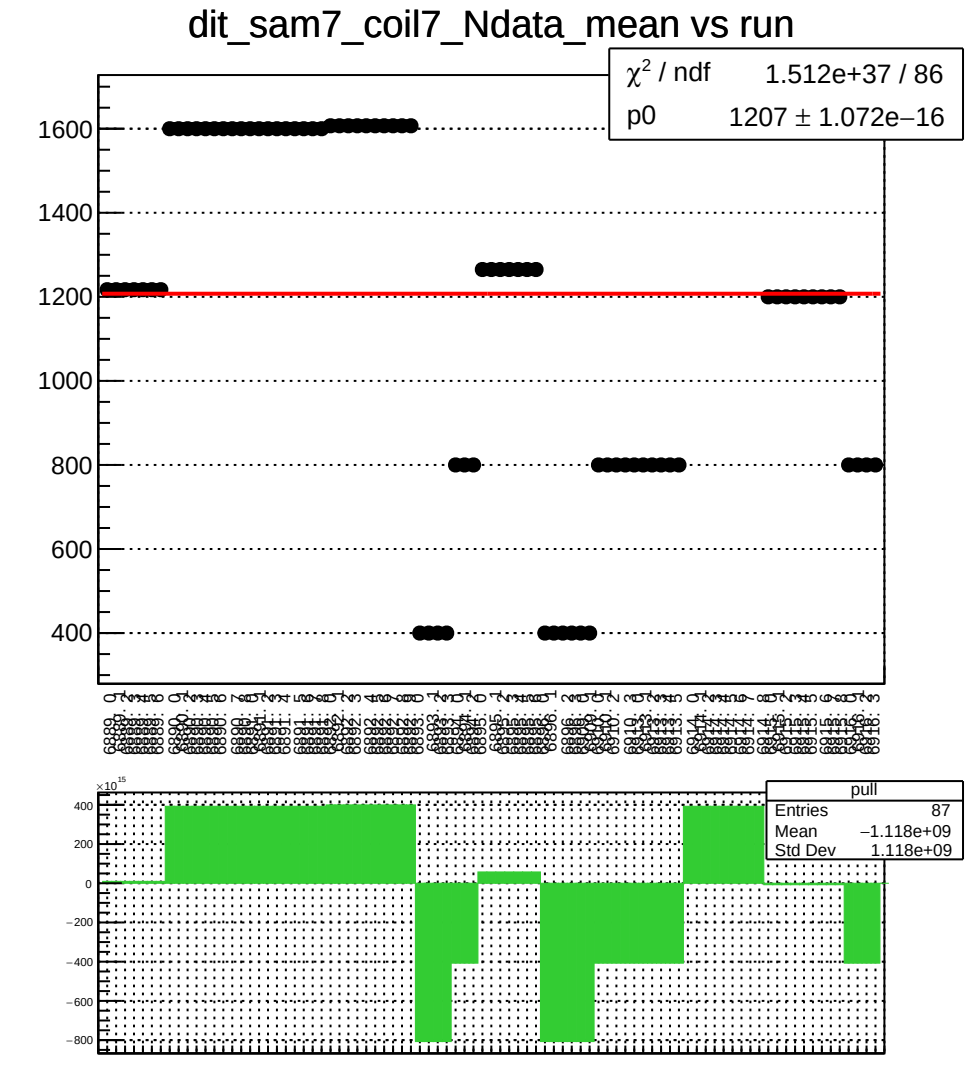

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

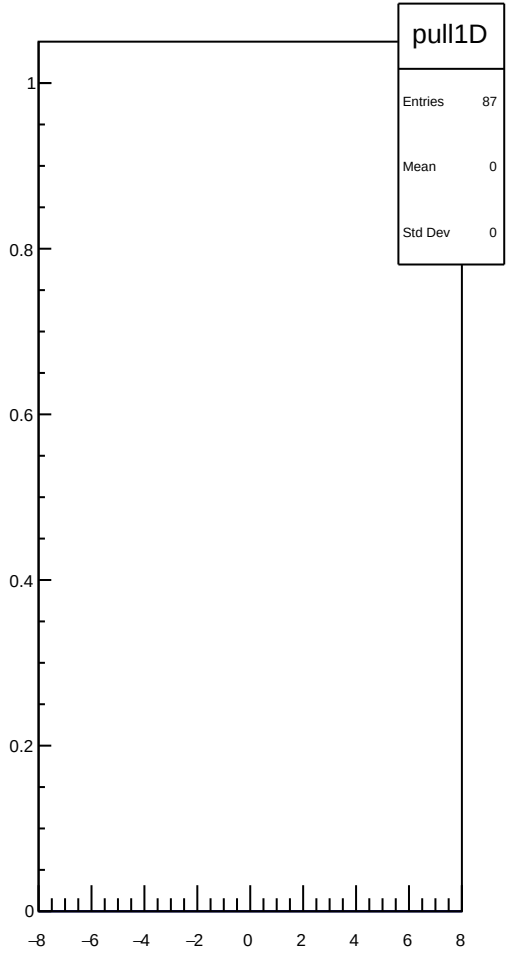

dit_sam7_coil7_mean vs run
χ² / ndf 1.079e+36 / 86
p0 −1689 ± 1.072e−16
−1500
−1600
−1700
−1800
−1900
−2000
pull
Entries 87
Mean 1.586e+09
Std Dev 1.586e+09
×10¹⁵
200
100
0
−100
−200

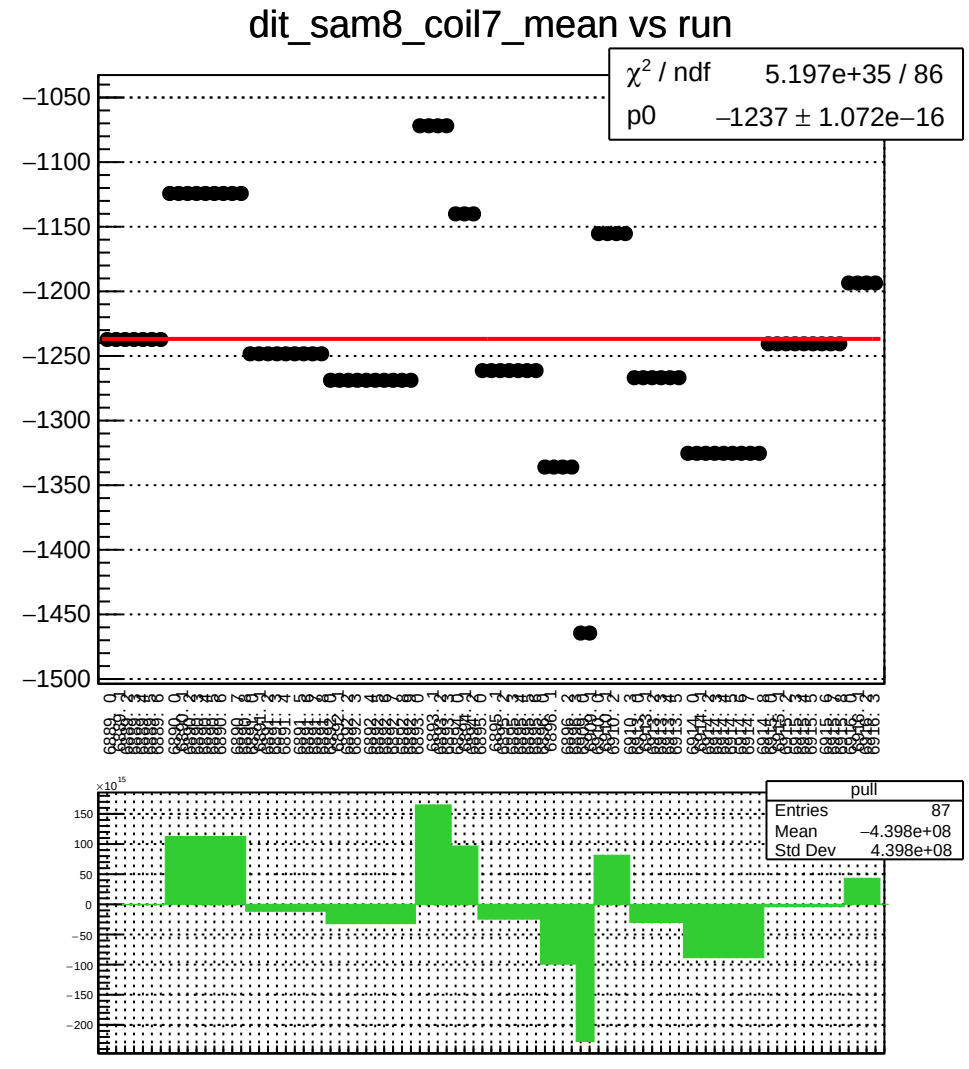

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

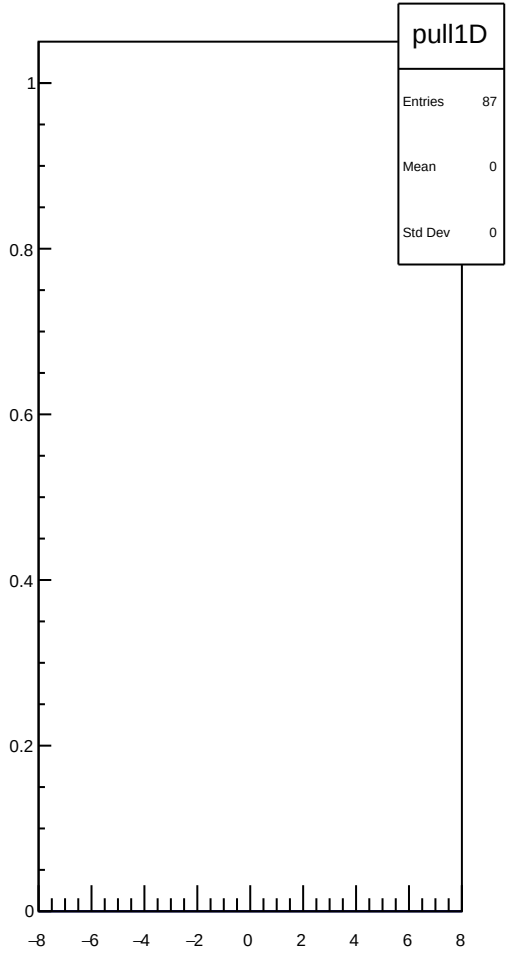

dit_sam7_coil7_err_mean vs run
χ² / ndf 1.437e+35 / 86
p0 215 ± 1.072e−16
350
300
250
200
150
pull
Entries 87
Mean 2.576e+09
Std Dev 2.576e+09
×10¹⁵
140
120
100
80
60
40
20
0
−20
−40
−60

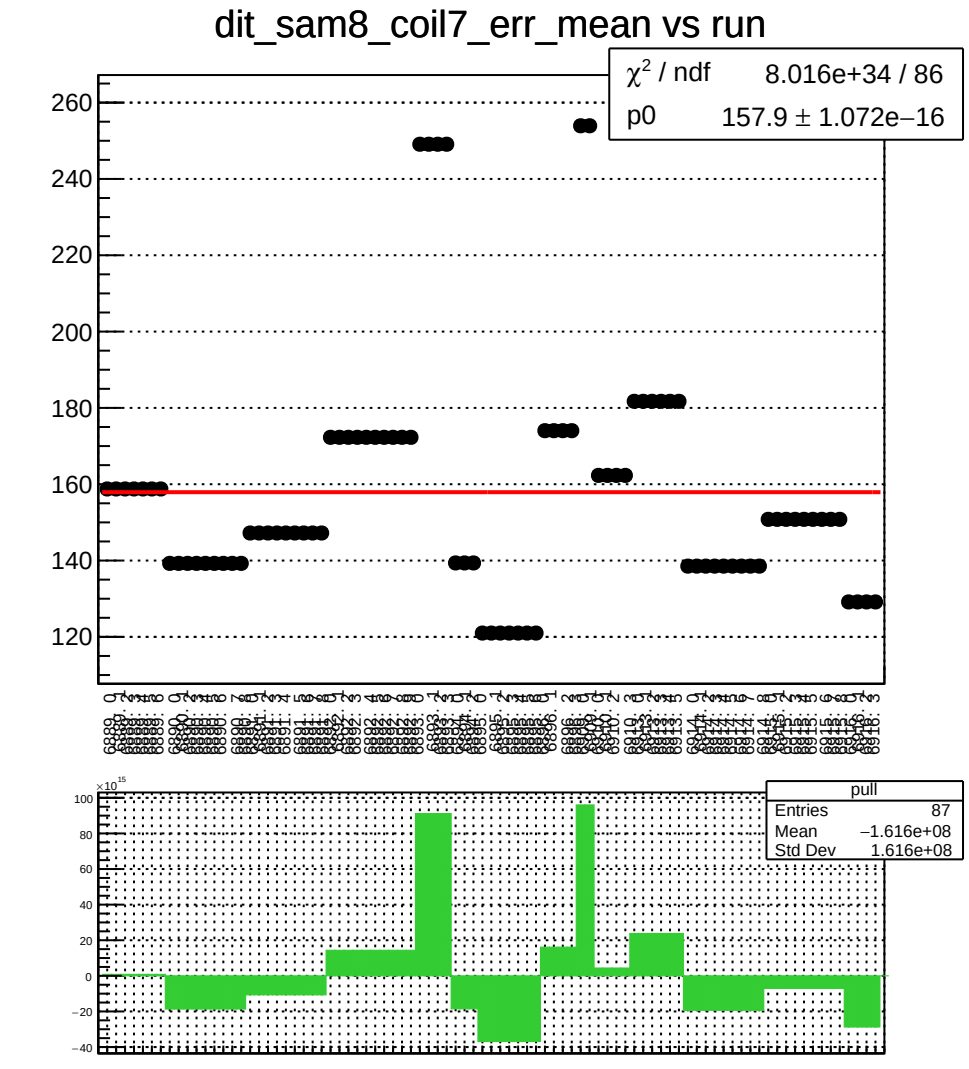

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

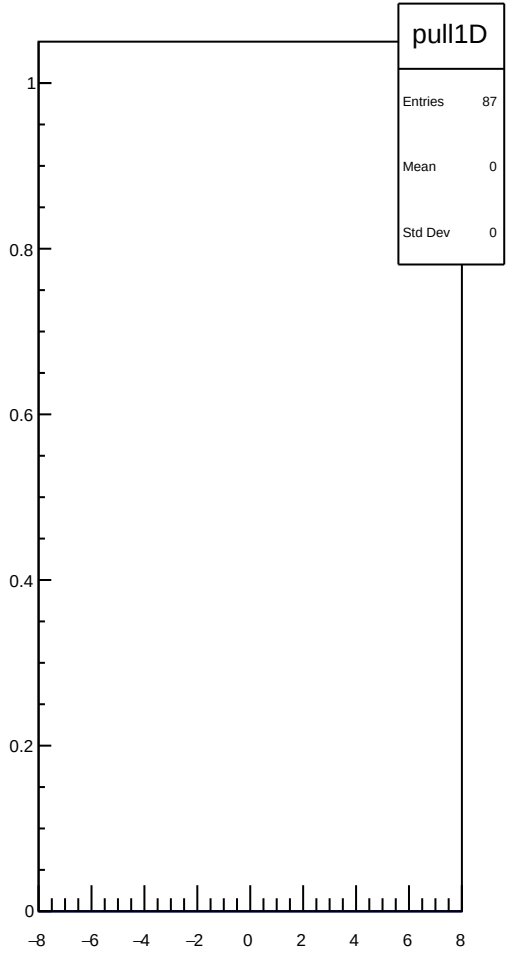

dit_sam7_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
×10¹⁵
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09

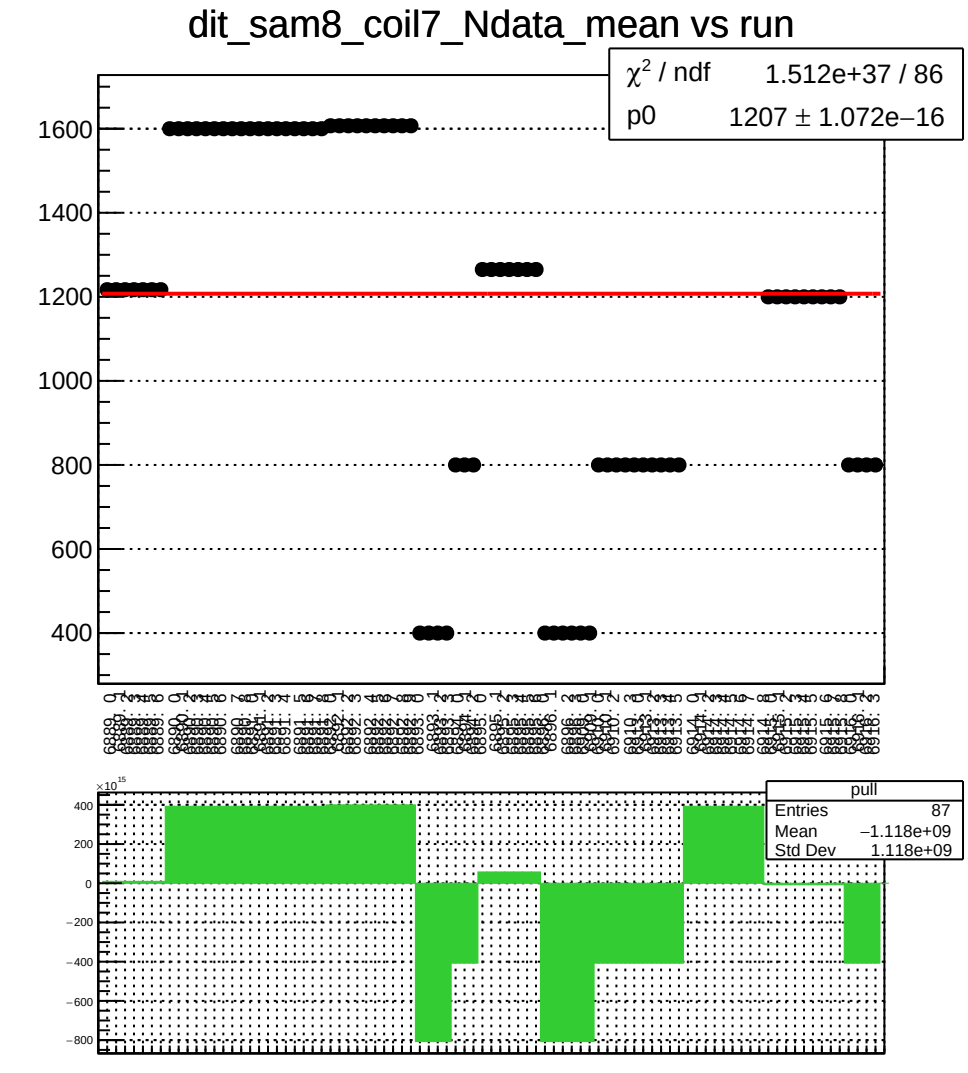

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

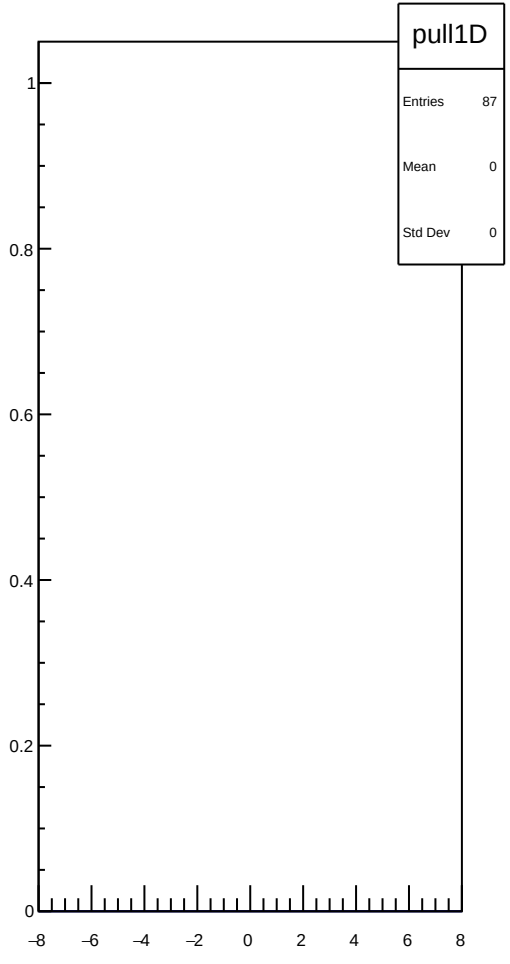

dit_sam8_coil7_mean vs run
χ² / ndf 5.197e+35 / 86
p0 –1237 ± 1.072e–16
pull
Entries 87
Mean –4.398e+08
Std Dev 4.398e+08

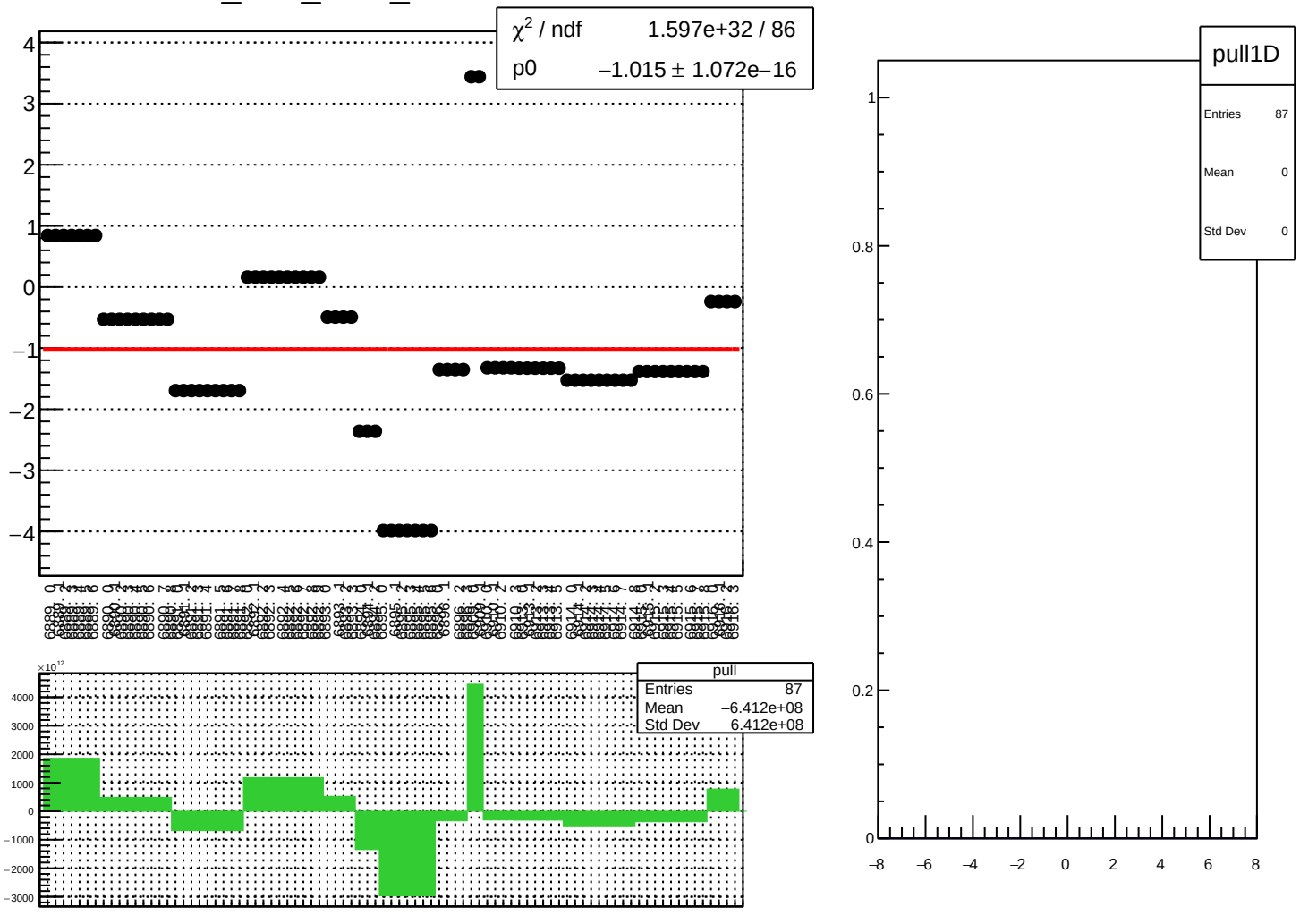

pull1D
Entries 87
Mean 0
Std Dev 0

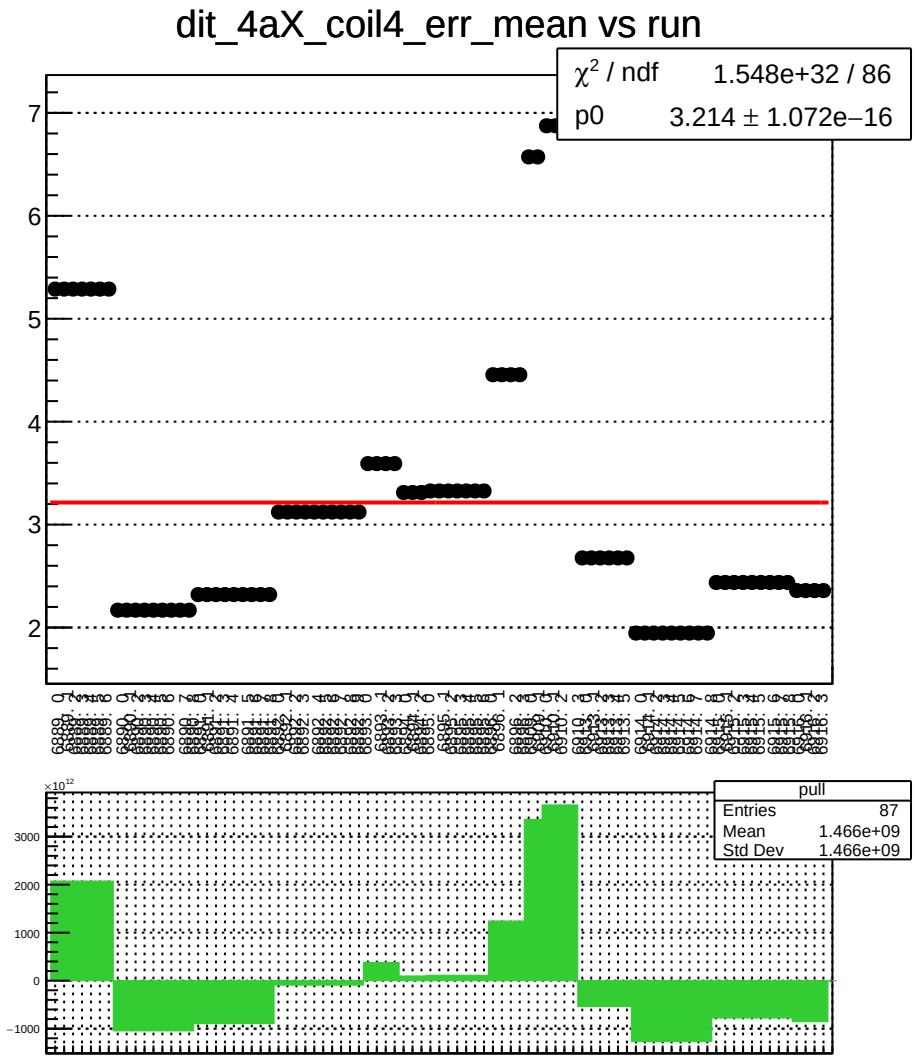

dit_sam8_coil7_err_mean vs run
χ² / ndf 8.016e+34 / 86
p0 157.9 ± 1.072e−16
260
240
220
200
180
160
140
120
pull
Entries 87
Mean −1.616e+08
Std Dev 1.616e+08
×10¹⁵
100
80
60
40
20
0
−20
−40

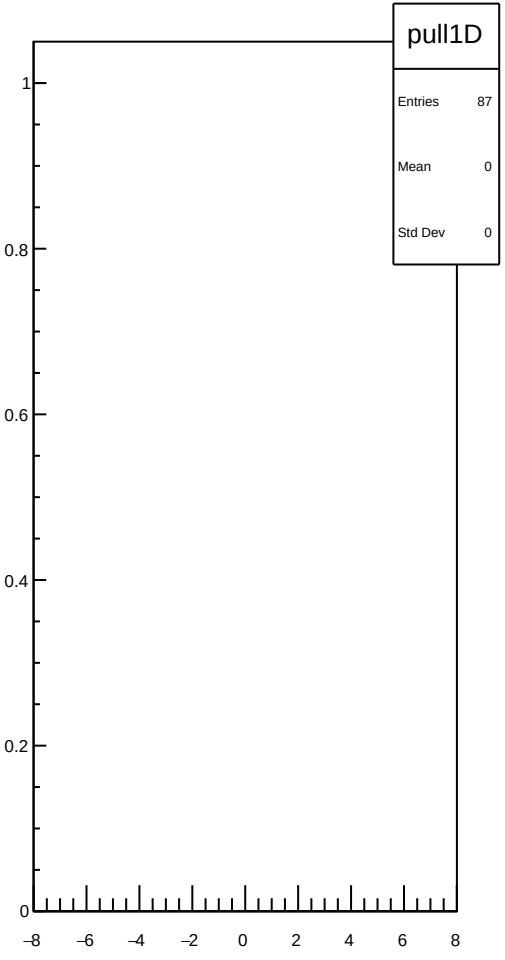

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

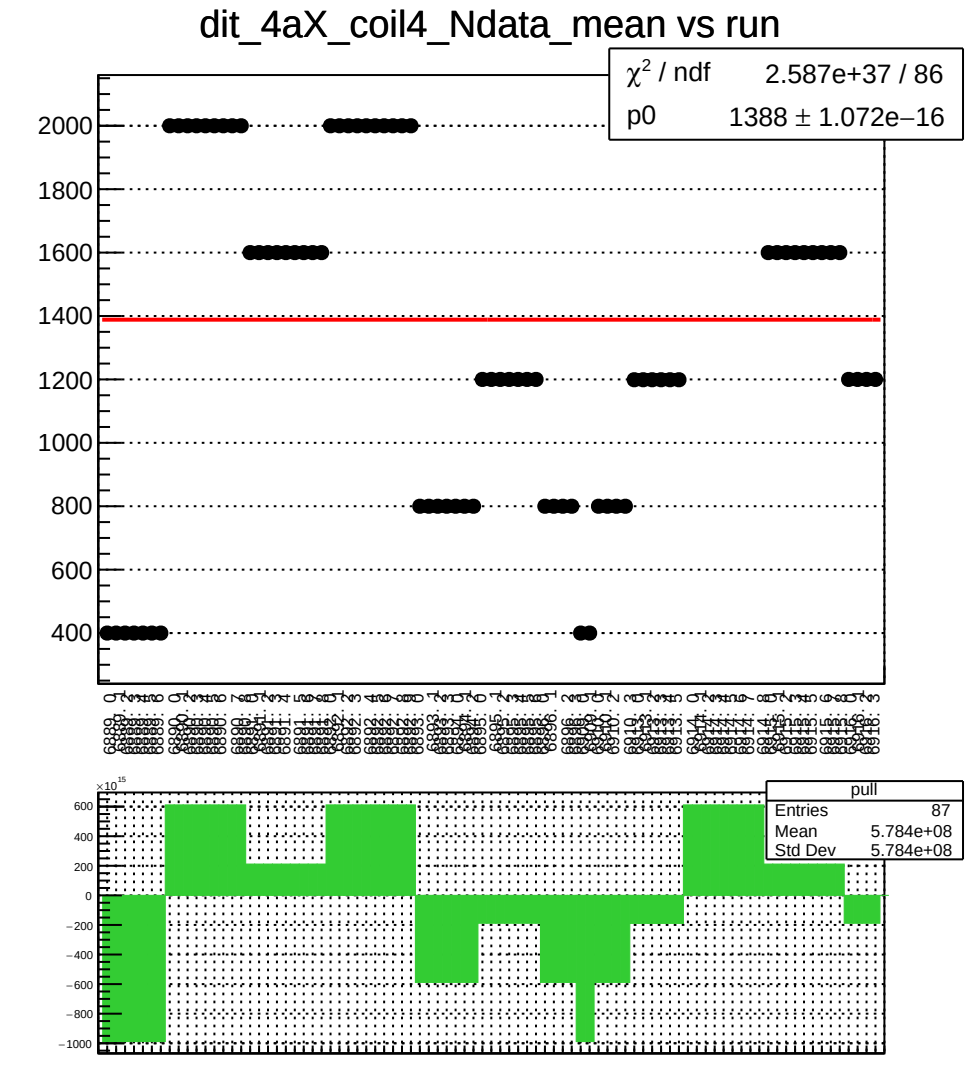

dit_sam8_coil7_Ndata_mean vs run
χ² / ndf 1.512e+37 / 86
p0 1207 ± 1.072e−16
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −1.118e+09
Std Dev 1.118e+09
×10¹⁵
400
200
0
−200
−400
−600
−800

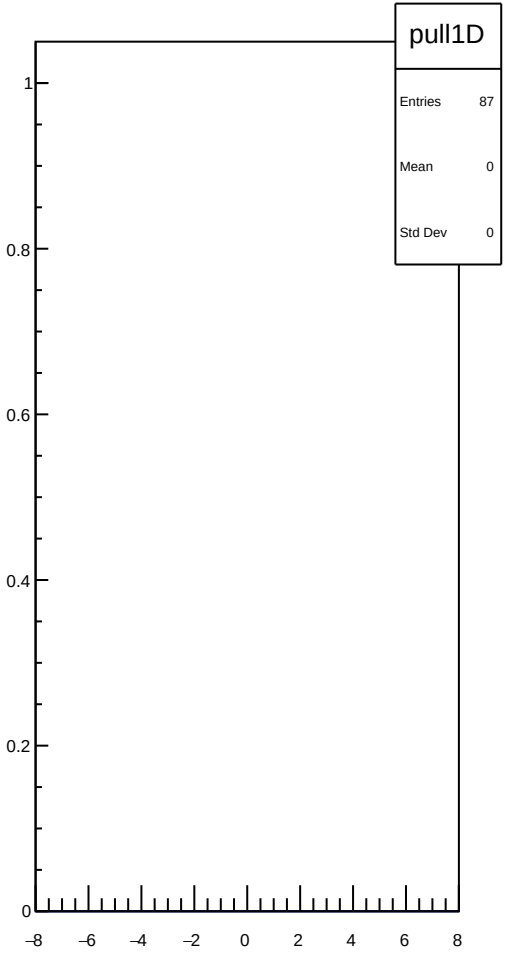

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

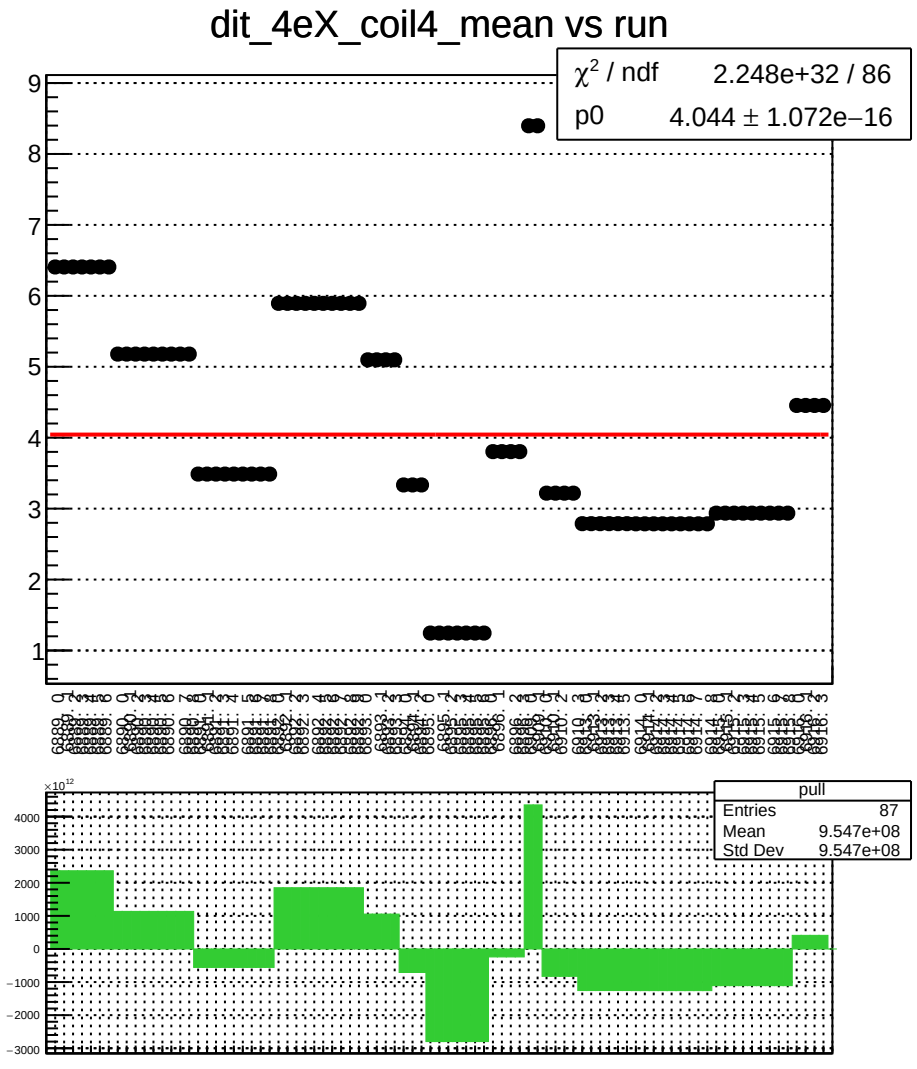

dit_4aX_coil4_mean vs run
χ² / ndf 1.597e+32 / 86
p0 −1.015 ± 1.072e−16
pull
Entries 87
Mean −6.412e+08
Std Dev 6.412e+08
pull1D
Entries 87
Mean 0
Std Dev 0

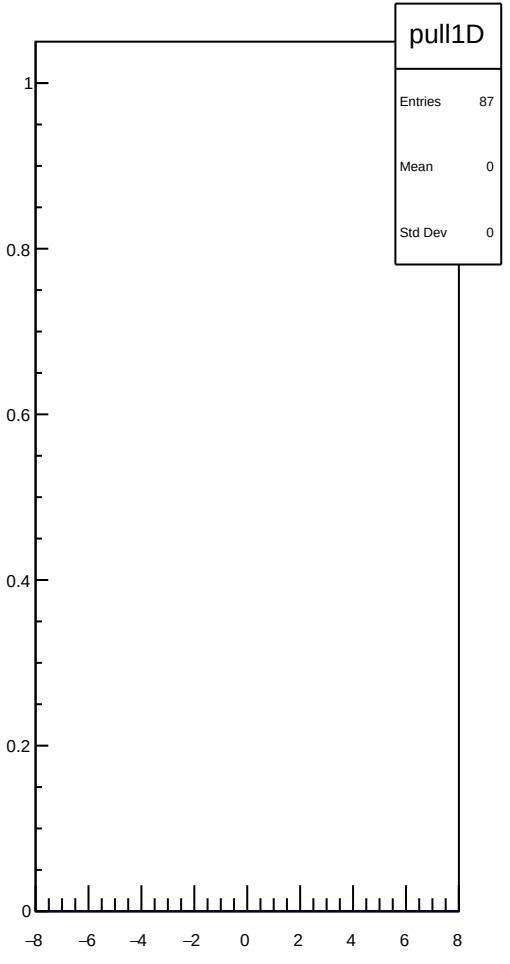

dit_4aX_coil4_err_mean vs run
χ² / ndf 1.548e+32 / 86
p0 3.214 ± 1.072e−16
pull
Entries 87
Mean 1.466e+09
Std Dev 1.466e+09
×10¹²

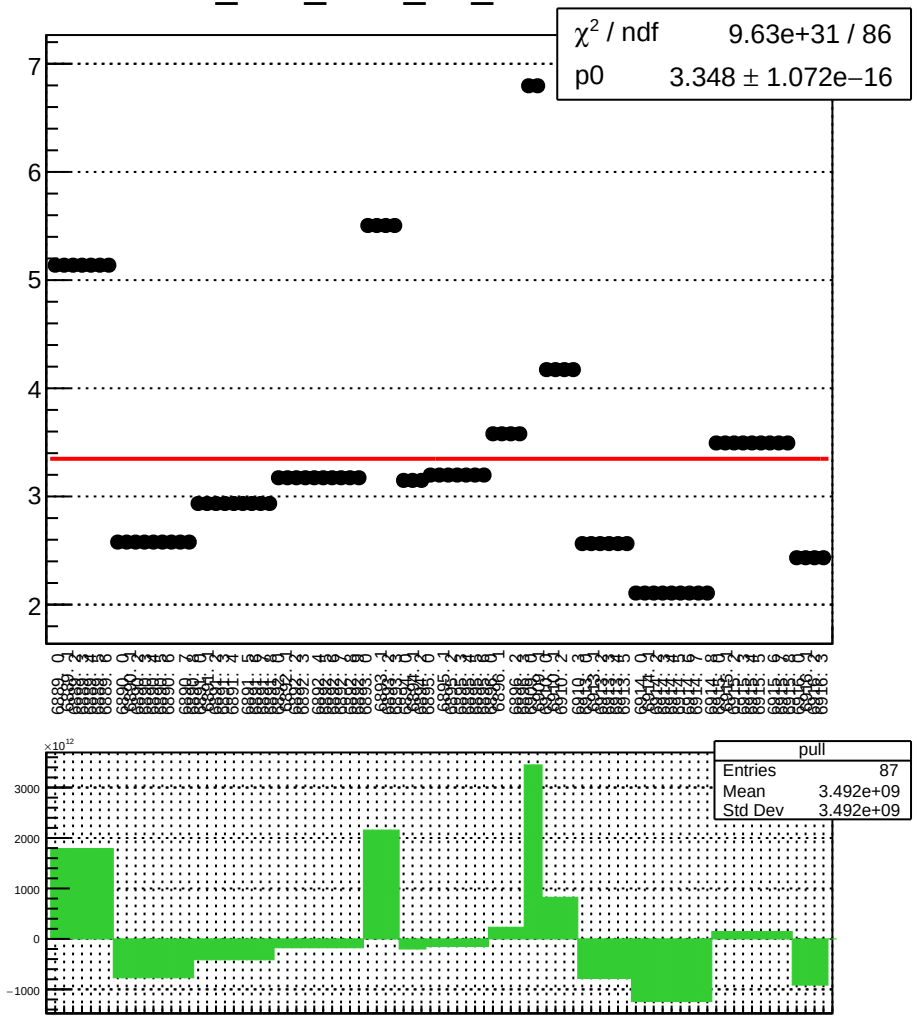

pull1D
Entries 87
Mean 0
Std Dev 0

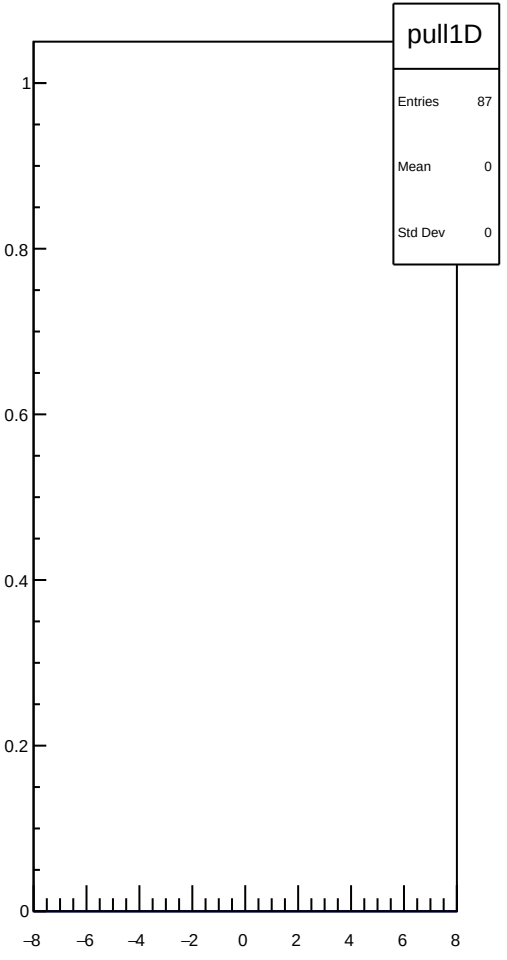

dit_4aX_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

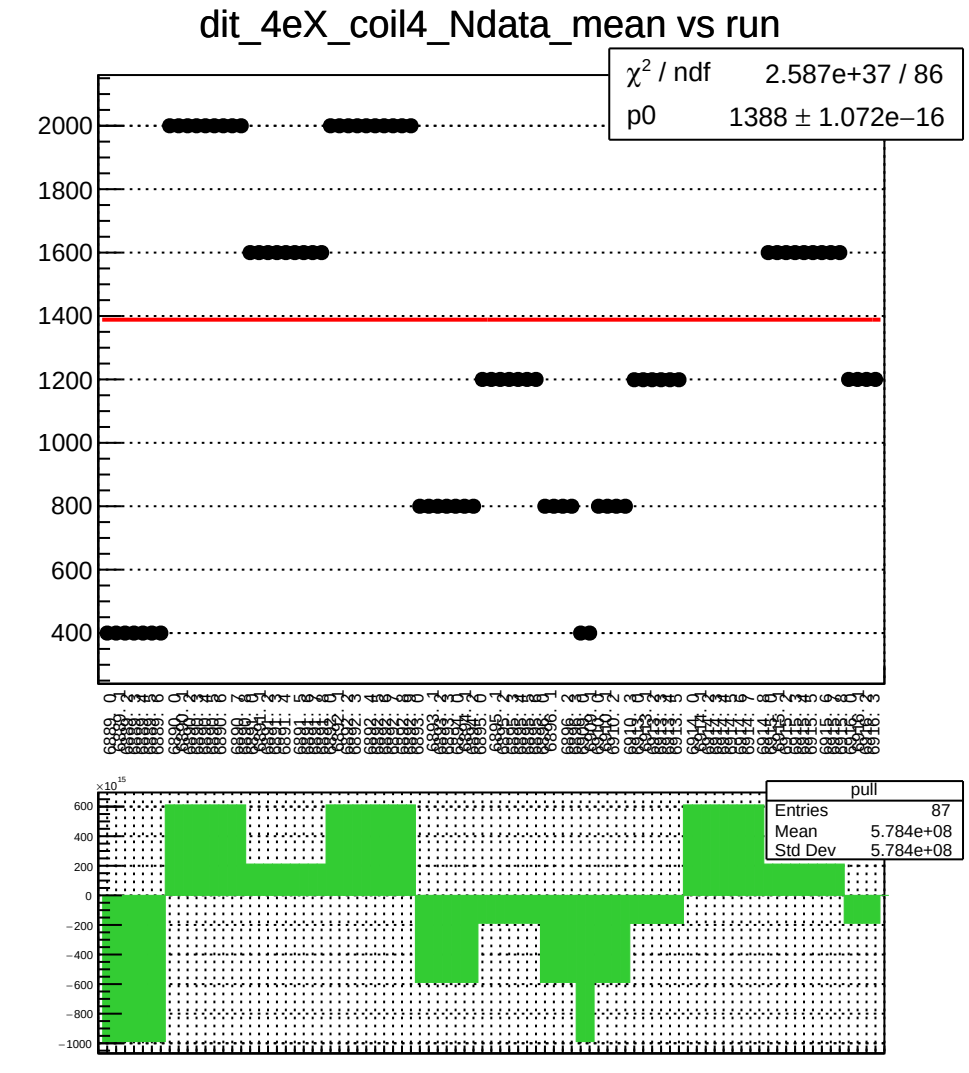

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

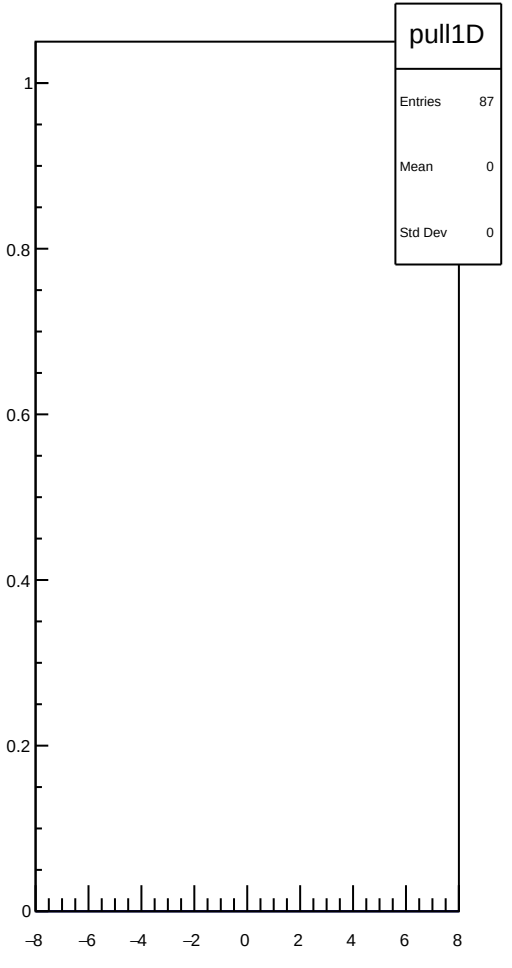

dit_4eX_coil4_mean vs run
χ² / ndf 2.248e+32 / 86
p0 4.044 ± 1.072e−16
pull
Entries 87
Mean 9.547e+08
Std Dev 9.547e+08

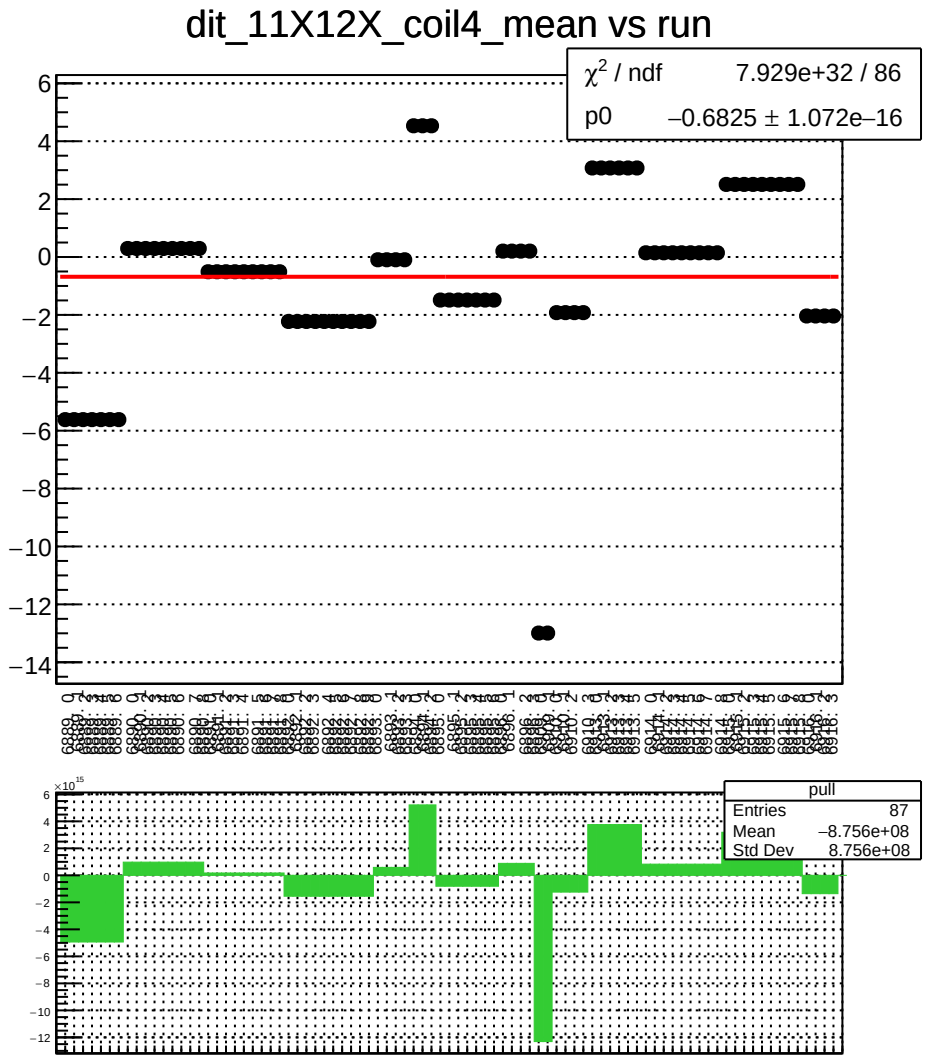

pull1D
Entries 87
Mean 0
Std Dev 0

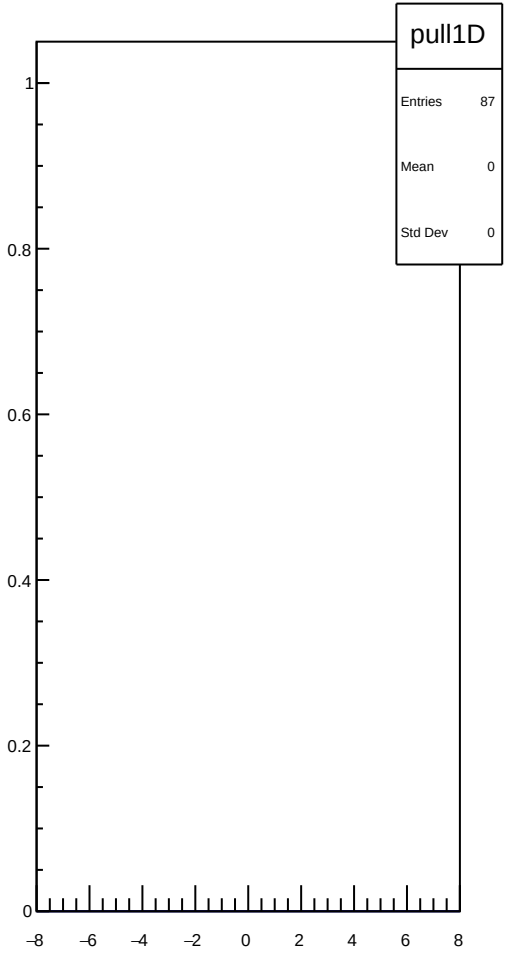

dit_4eX_coil4_err_mean vs run
χ² / ndf 9.63e+31 / 86
p0 3.348 ± 1.072e−16
pull
Entries 87
Mean 3.492e+09
Std Dev 3.492e+09

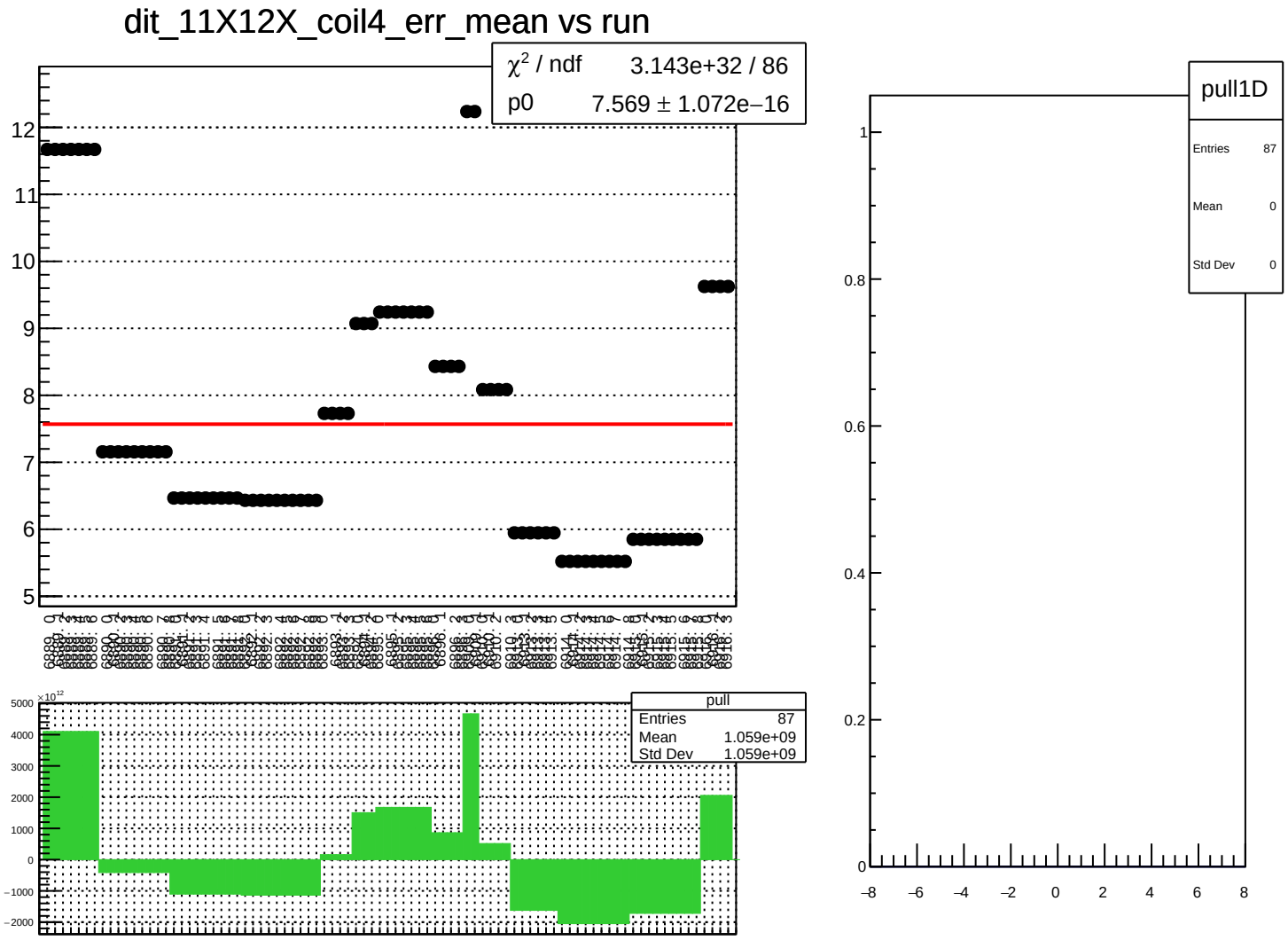

pull1D
Entries 87
Mean 0
Std Dev 0

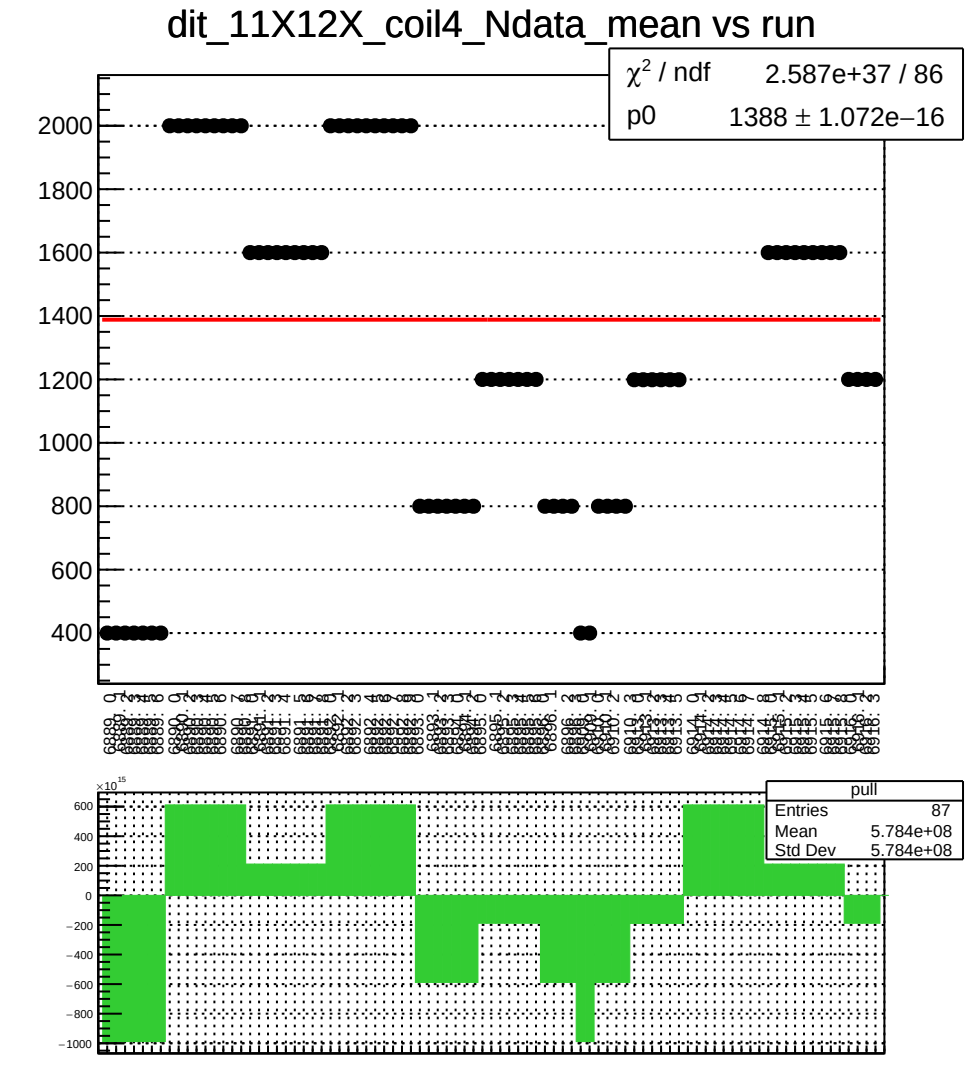

dit_4eX_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

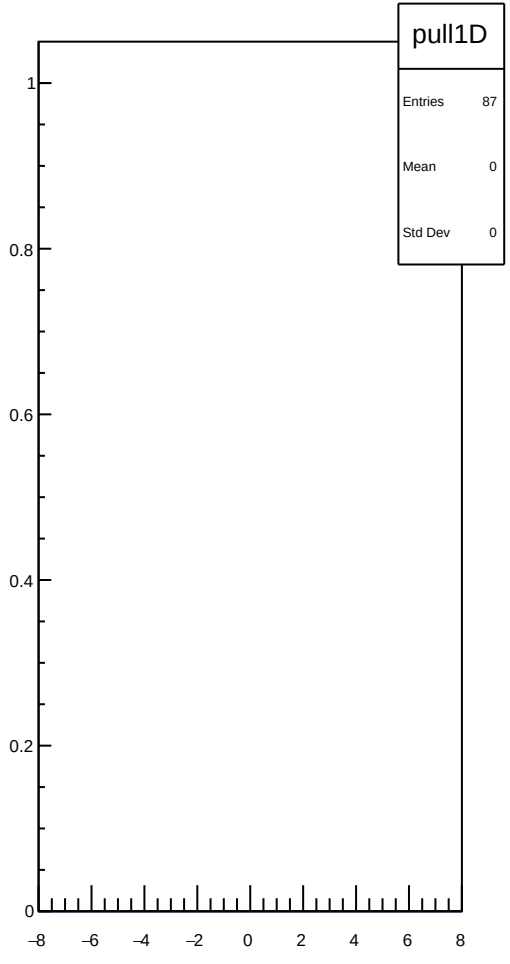

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

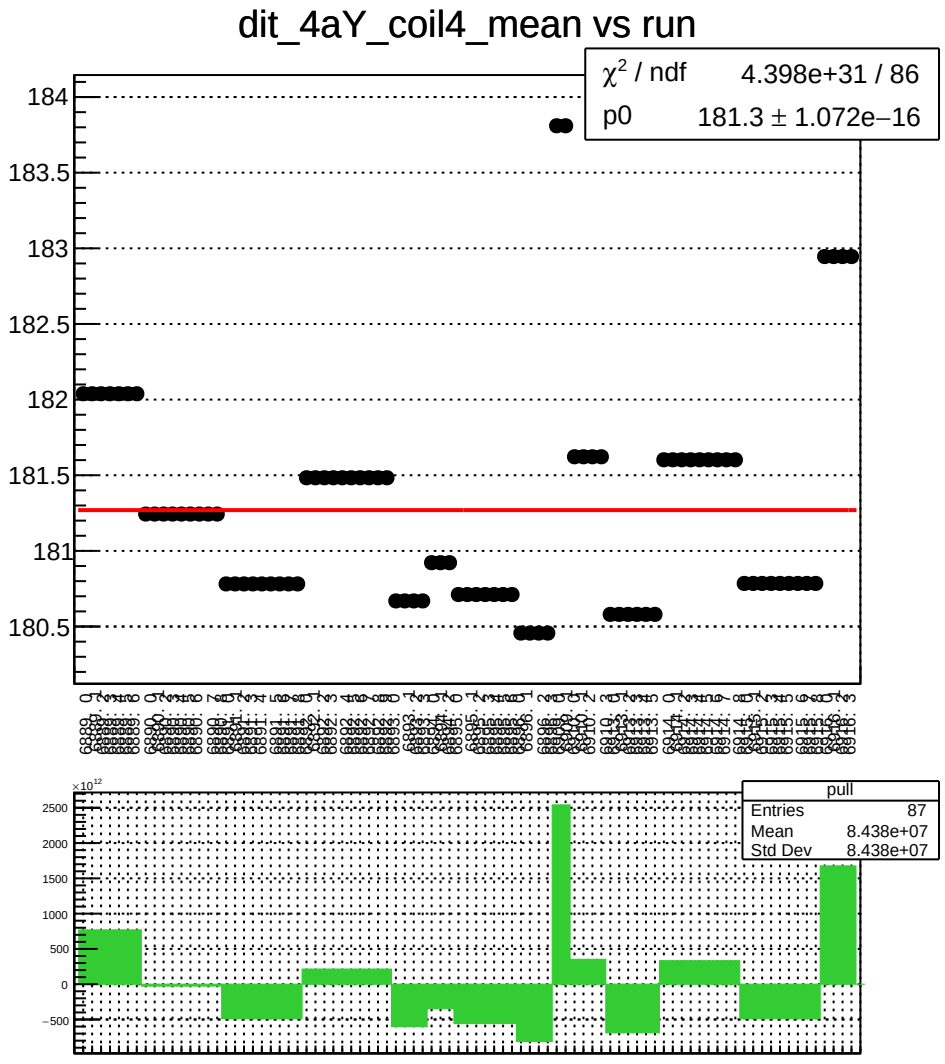

dit_11X12X_coil4_mean vs run
χ² / ndf 7.929e+32 / 86
p0 −0.6825 ± 1.072e−16
pull
Entries 87
Mean −8.756e+08
Std Dev 8.756e+08

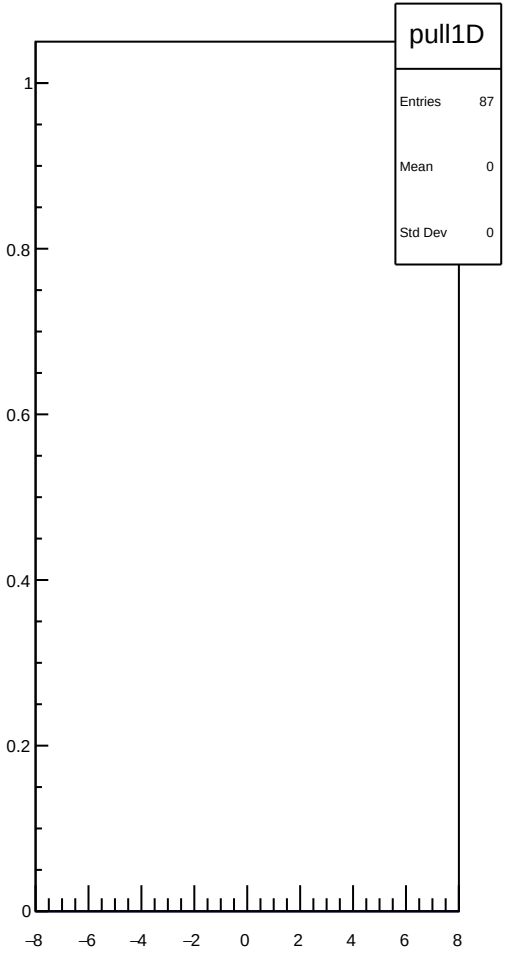

pull1D
Entries 87
Mean 0
Std Dev 0

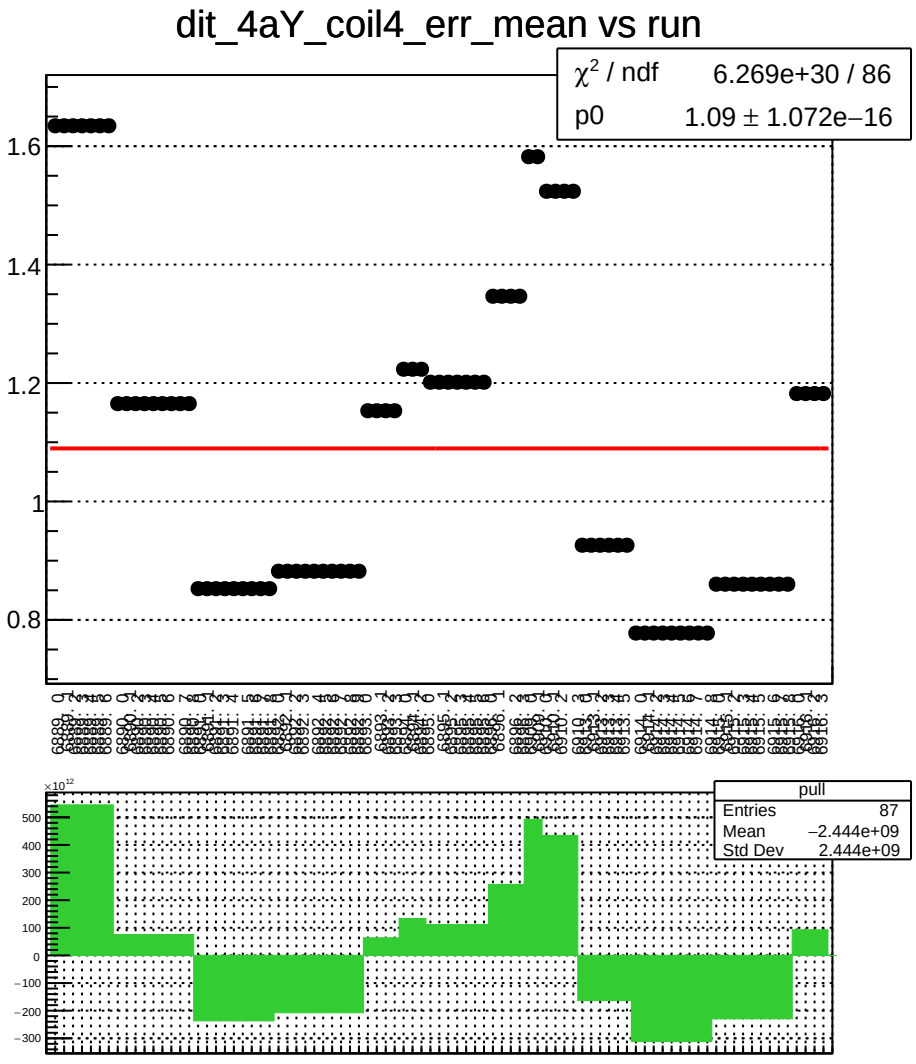

dit_11X12X_coil4_err_mean vs run
χ² / ndf 3.143e+32 / 86
p0 7.569 ± 1.072e−16
pull
Entries 87
Mean 1.059e+09
Std Dev 1.059e+09
pull1D
Entries 87
Mean 0
Std Dev 0

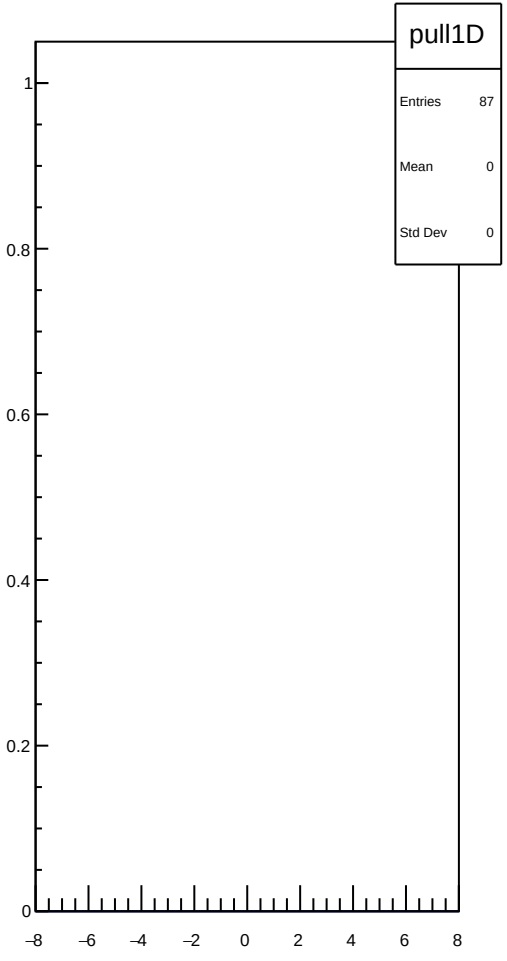

dit_11X12X_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08

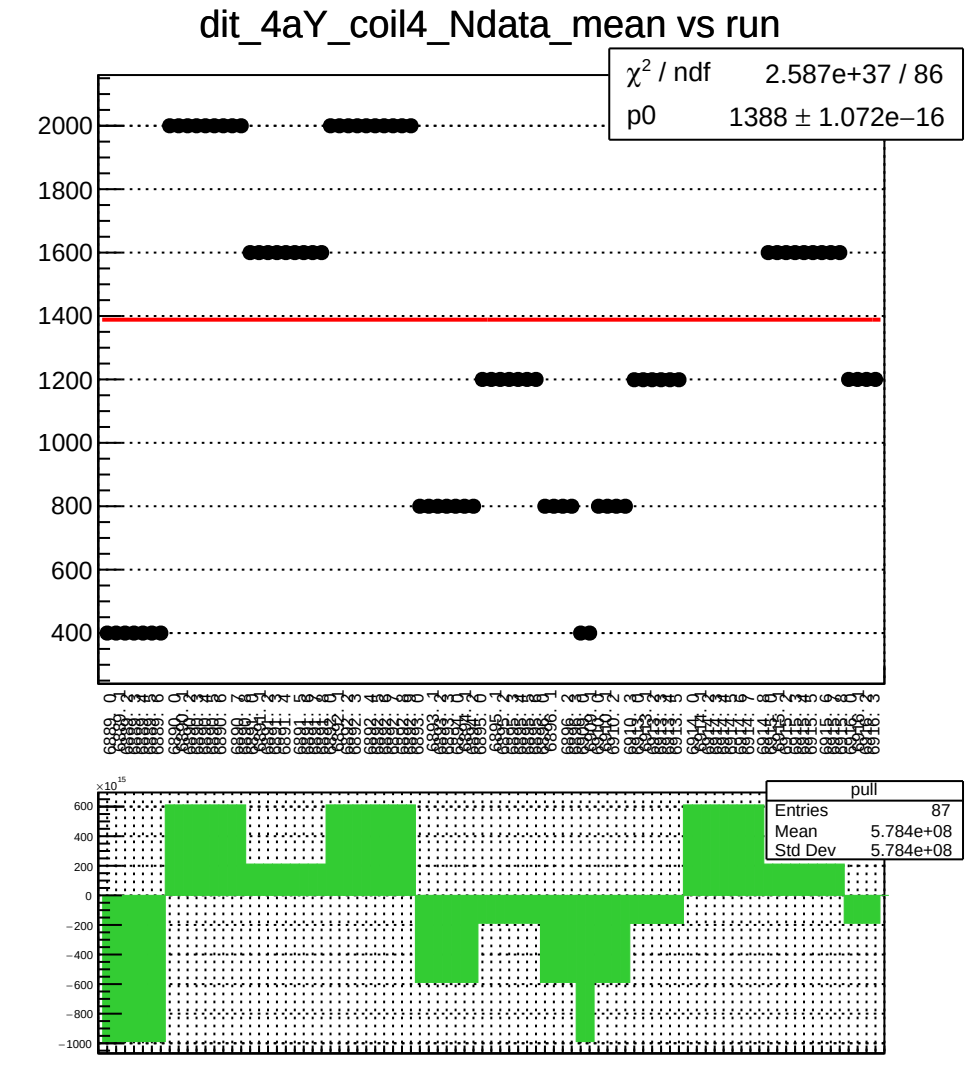

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

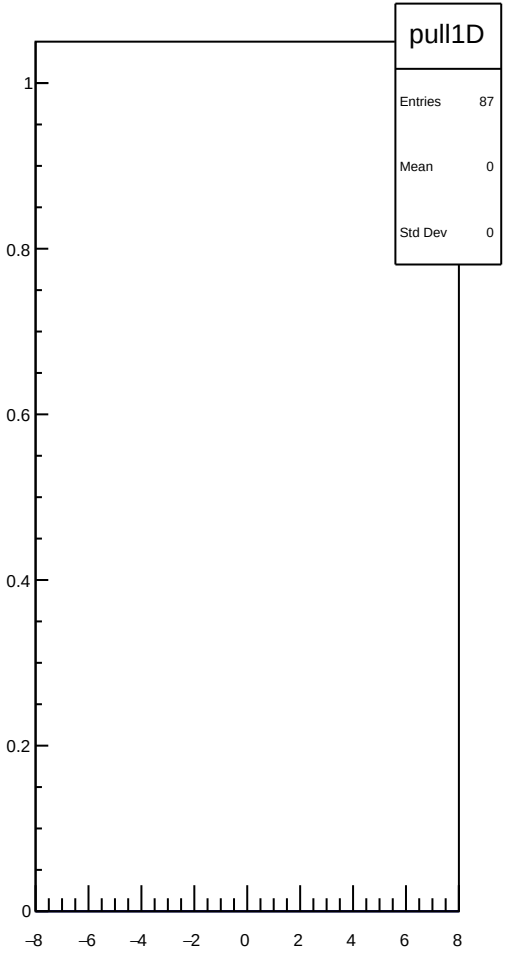

dit_4aY_coil4_mean vs run
χ² / ndf 4.398e+31 / 86
p0 181.3 ± 1.072e−16
184
183.5
183
182.5
182
181.5
181
180.5
pull
Entries 87
Mean 8.438e+07
Std Dev 8.438e+07
×10¹²
2500
2000
1500
1000
500
0
−500

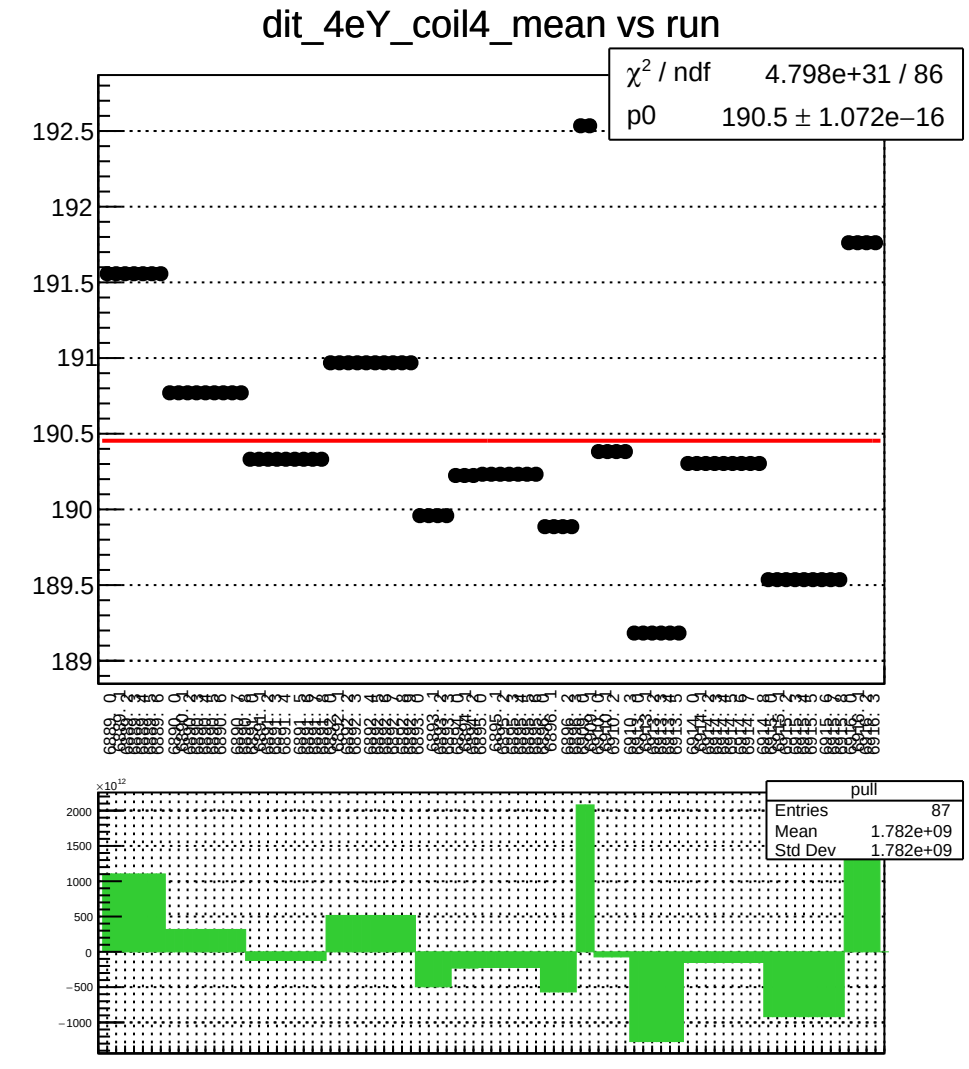

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

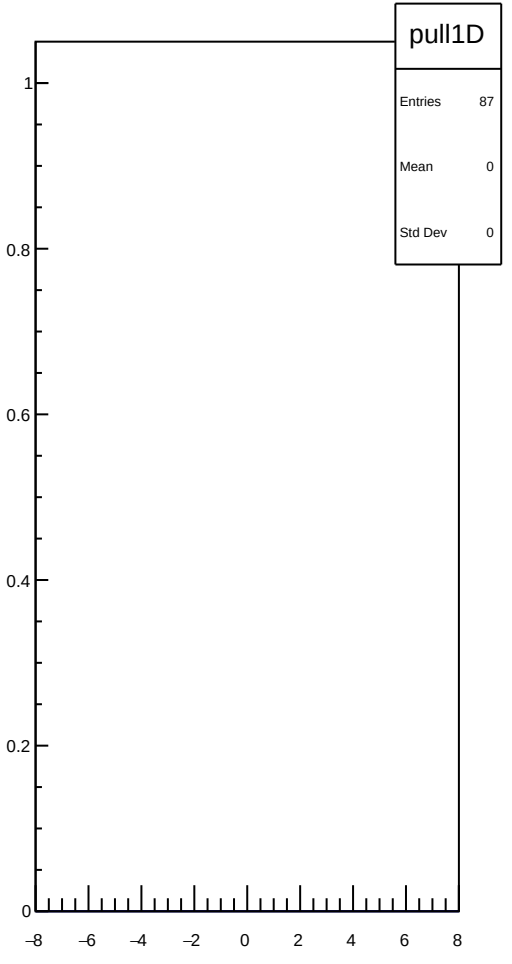

dit_4aY_coil4_err_mean vs run
χ² / ndf 6.269e+30 / 86
p0 1.09 ± 1.072e−16
1.6
1.4
1.2
1
0.8
pull
Entries 87
Mean −2.444e+09
Std Dev 2.444e+09
×10¹²
500
400
300
200
100
0
−100
−200
−300

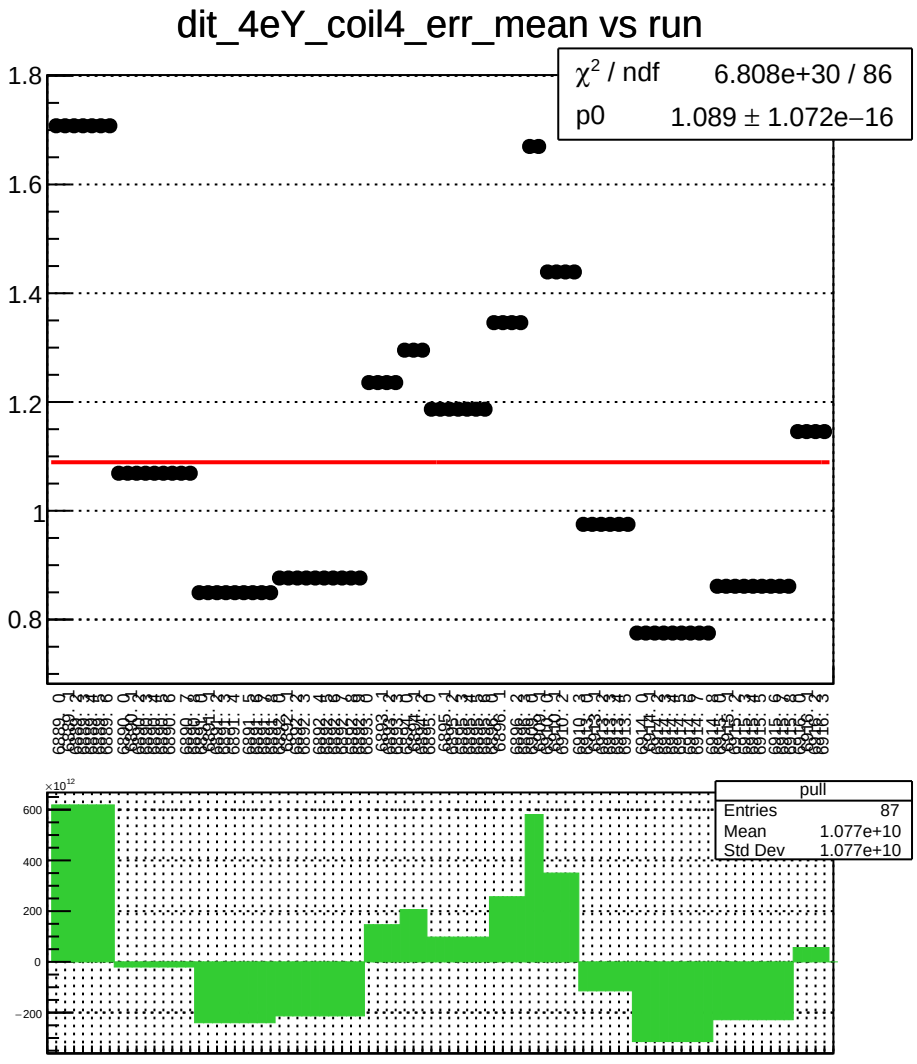

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

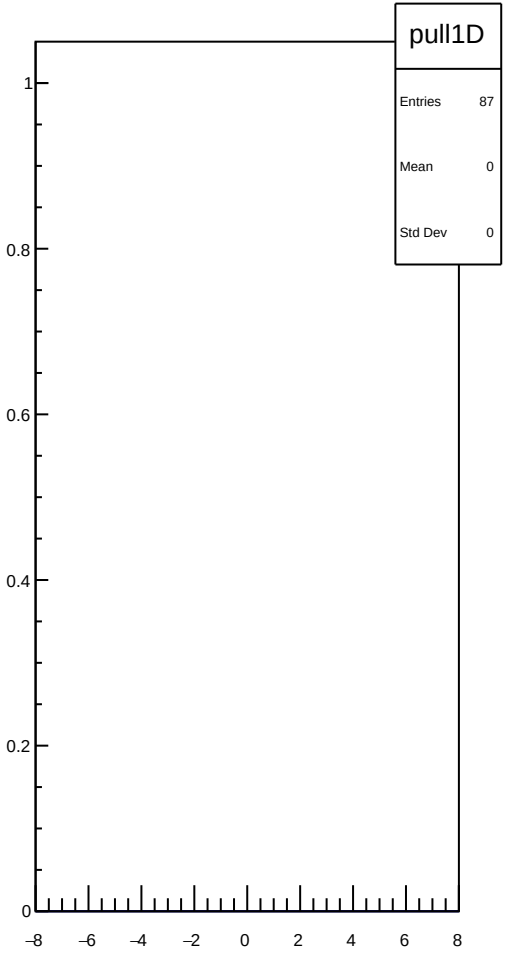

dit_4aY_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

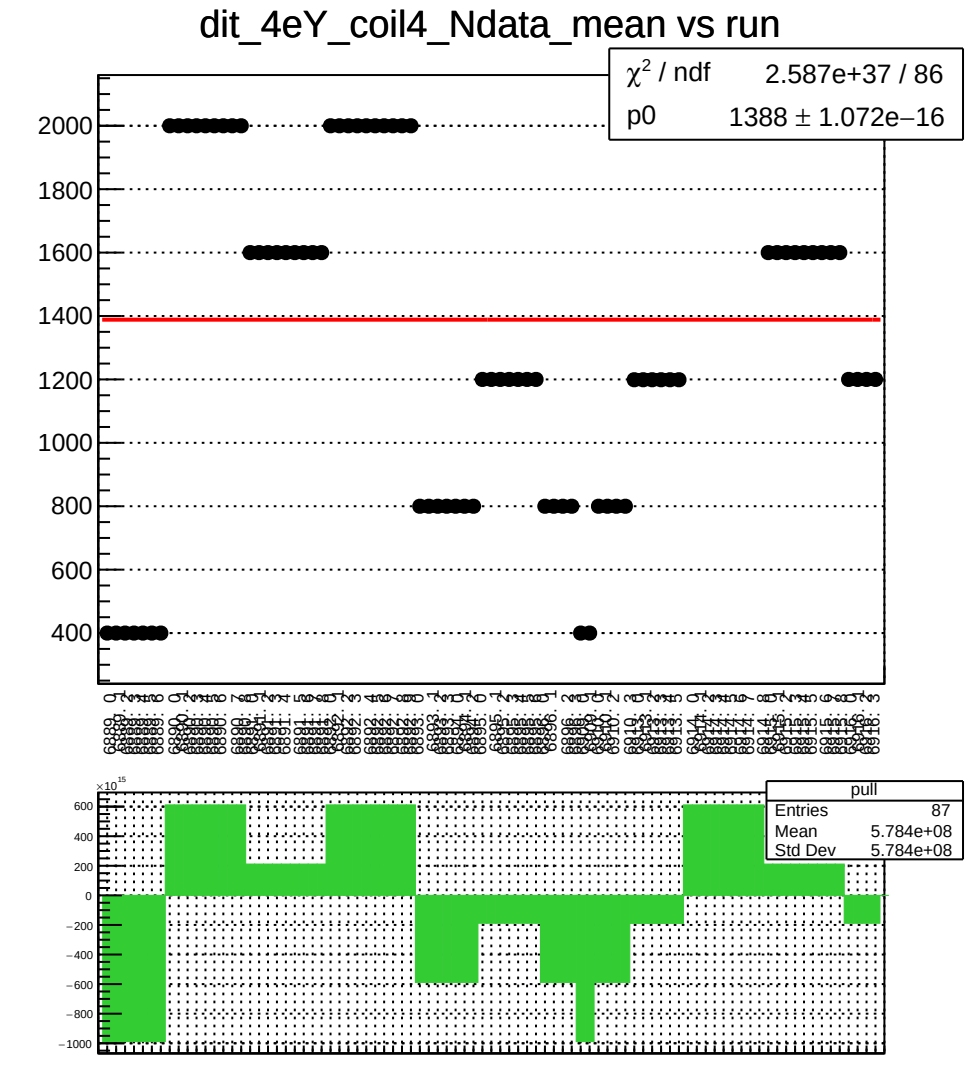

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

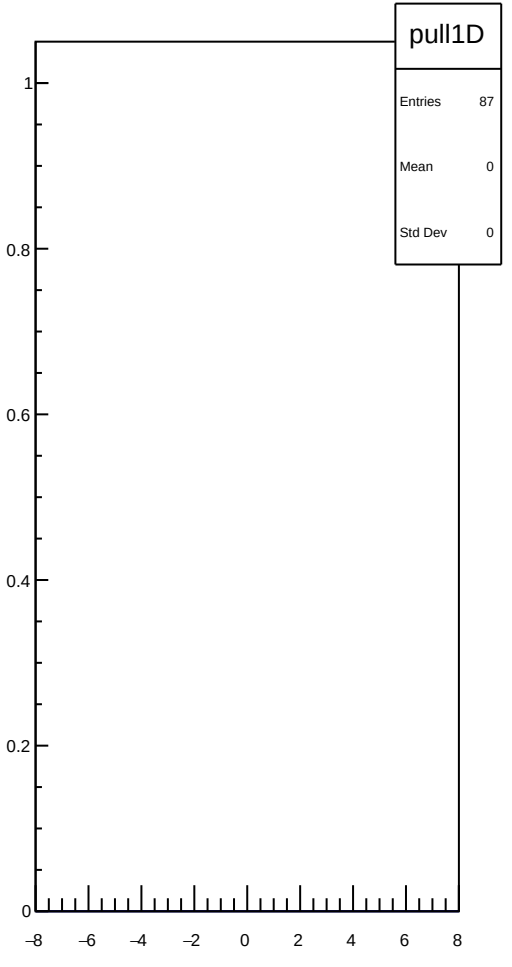

dit_4eY_coil4_mean vs run
χ² / ndf 4.798e+31 / 86
p0 190.5 ± 1.072e−16
192.5
192
191.5
191
190.5
190
189.5
189
×10¹²
2000
1500
1000
500
0
−500
−1000
pull
Entries 87
Mean 1.782e+09
Std Dev 1.782e+09

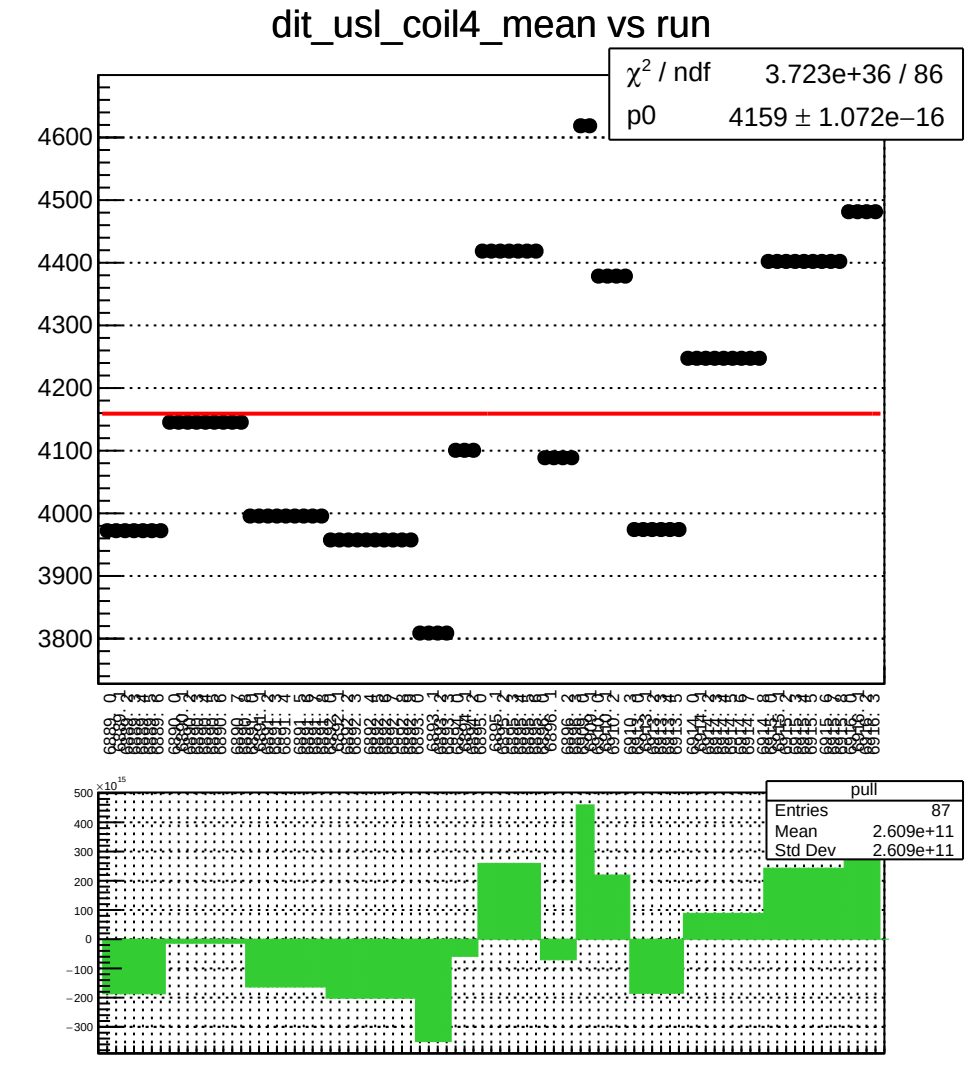

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

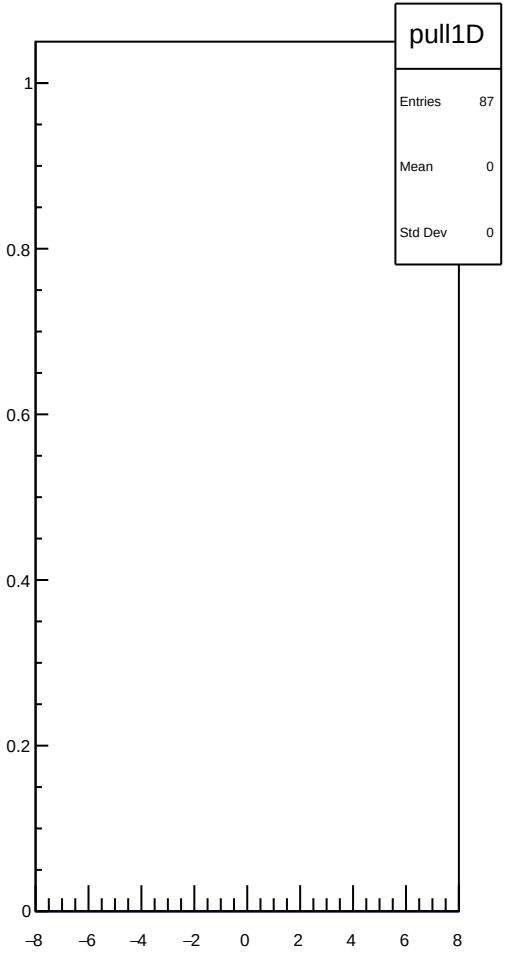

dit_4eY_coil4_err_mean vs run
χ² / ndf 6.808e+30 / 86
p0 1.089 ± 1.072e−16
1.8
1.6
1.4
1.2
1
0.8
pull
Entries 87
Mean 1.077e+10
Std Dev 1.077e+10
×10¹²
600
400
200
0
−200

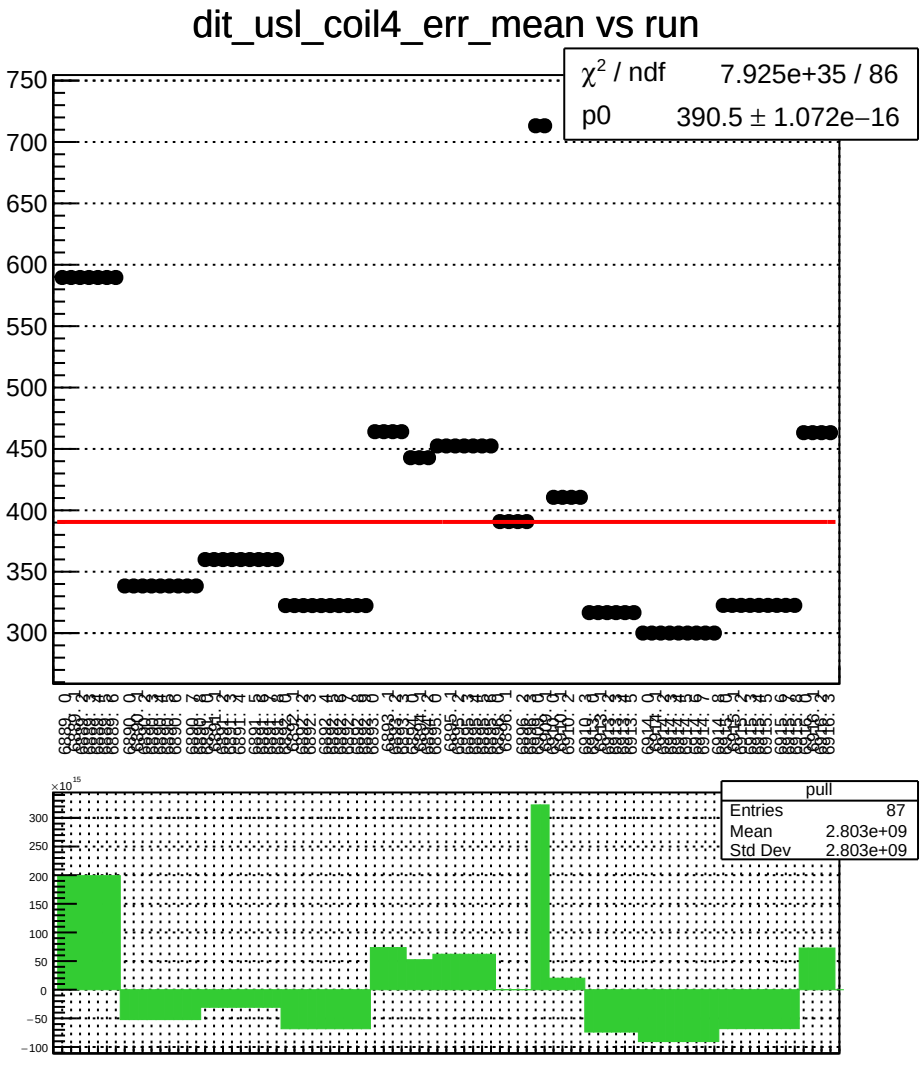

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

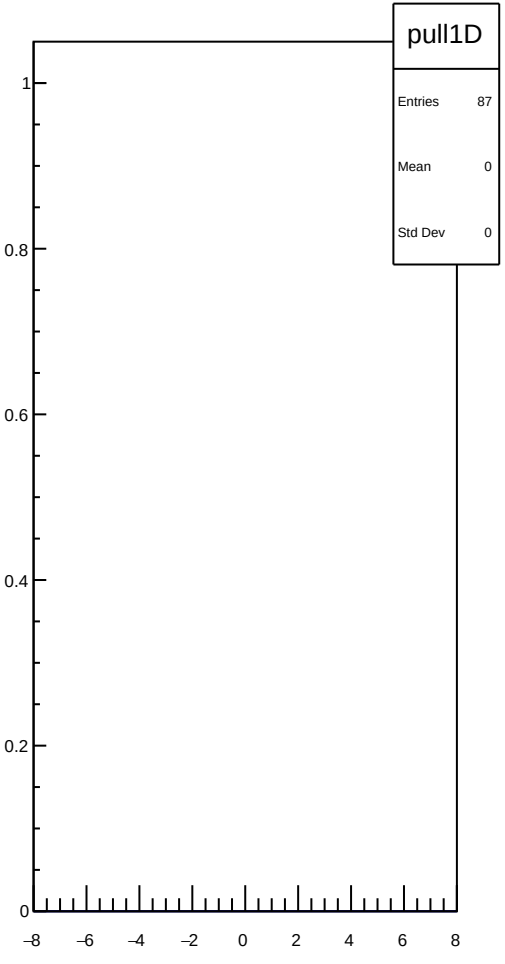

dit_4eY_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

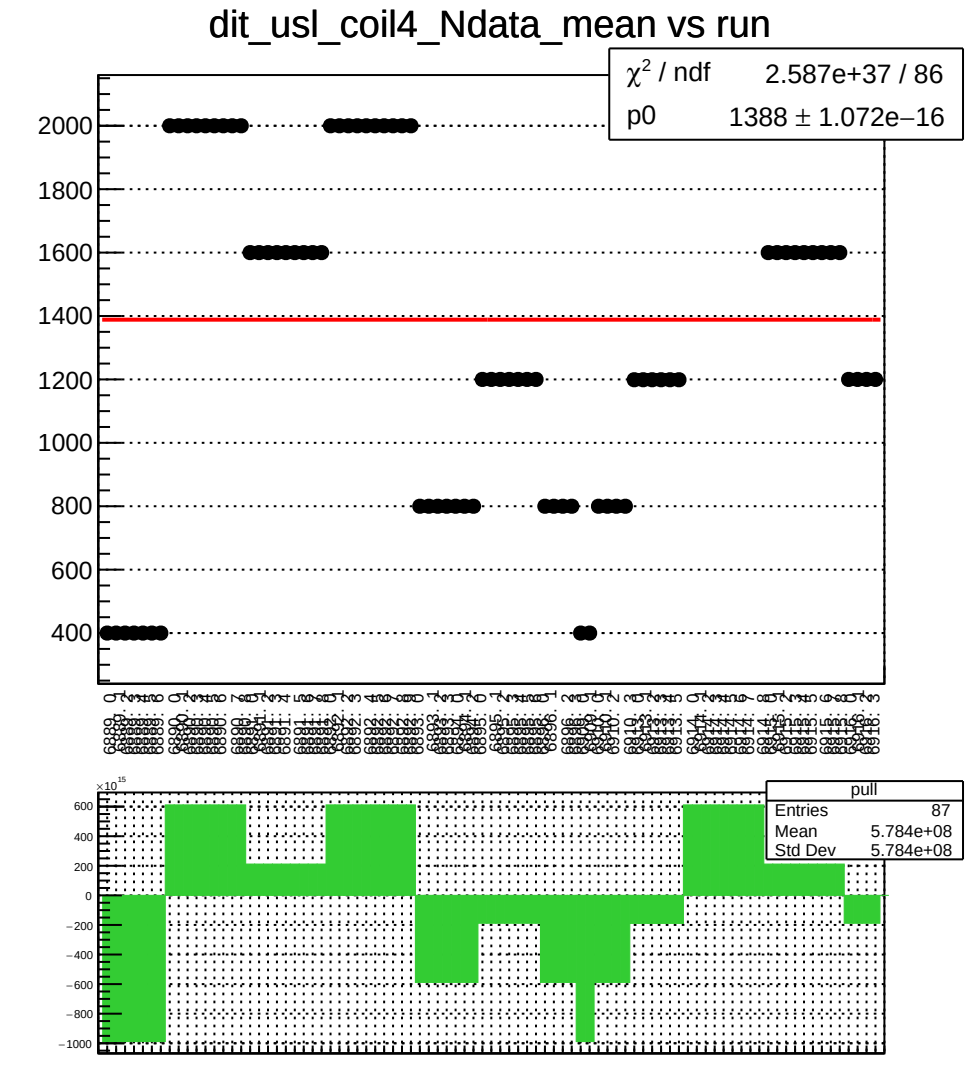

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

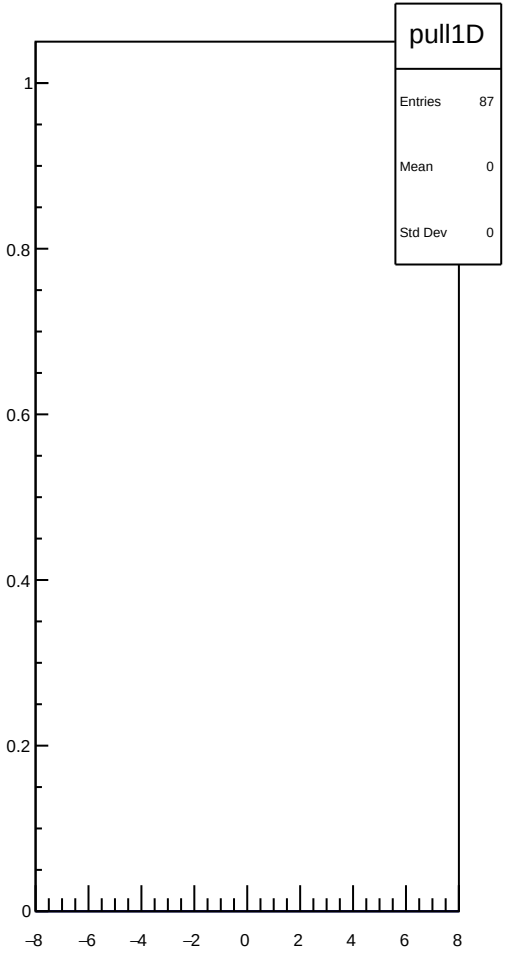

dit_usl_coil4_mean vs run
χ² / ndf 3.723e+36 / 86
p0 4159 ± 1.072e−16
4600
4500
4400
4300
4200
4100
4000
3900
3800
pull
Entries 87
Mean 2.609e+11
Std Dev 2.609e+11
×10¹⁵
500
400
300
200
100
0
−100
−200
−300

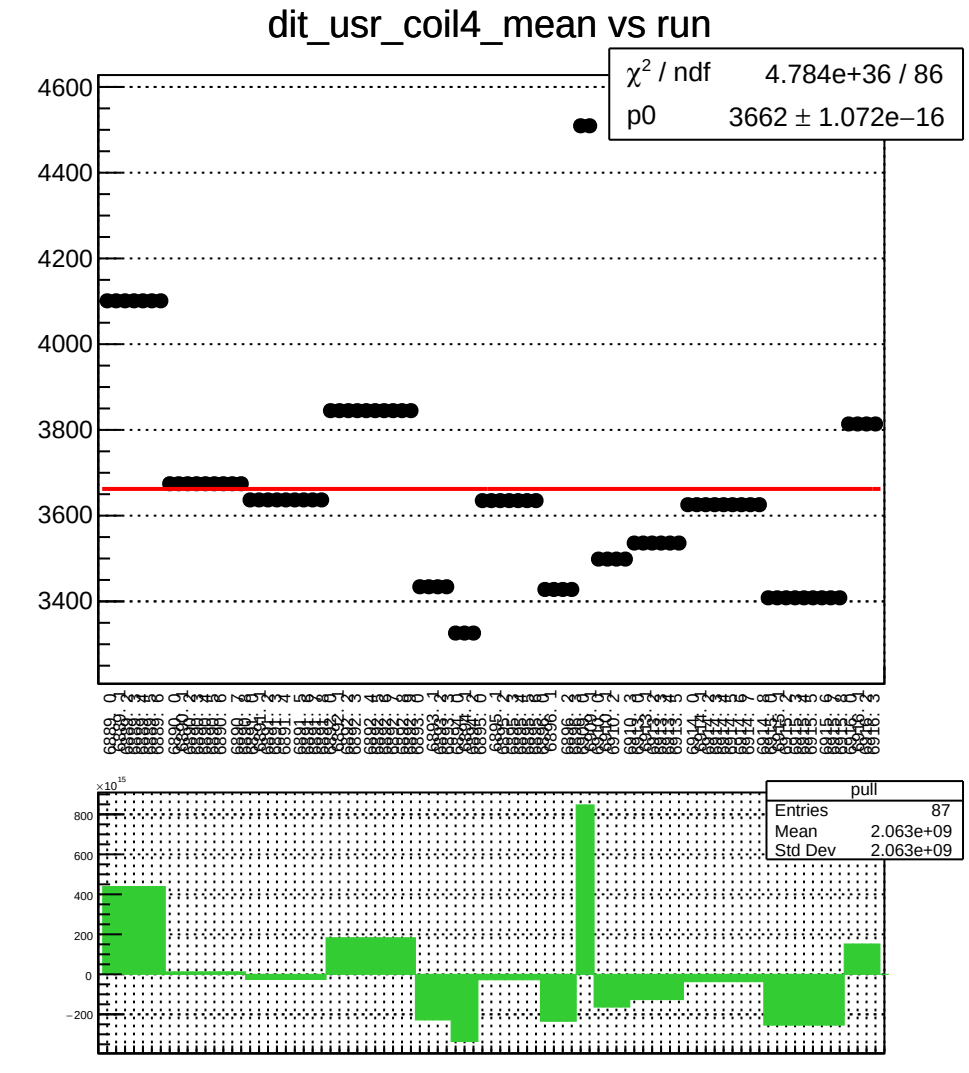

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

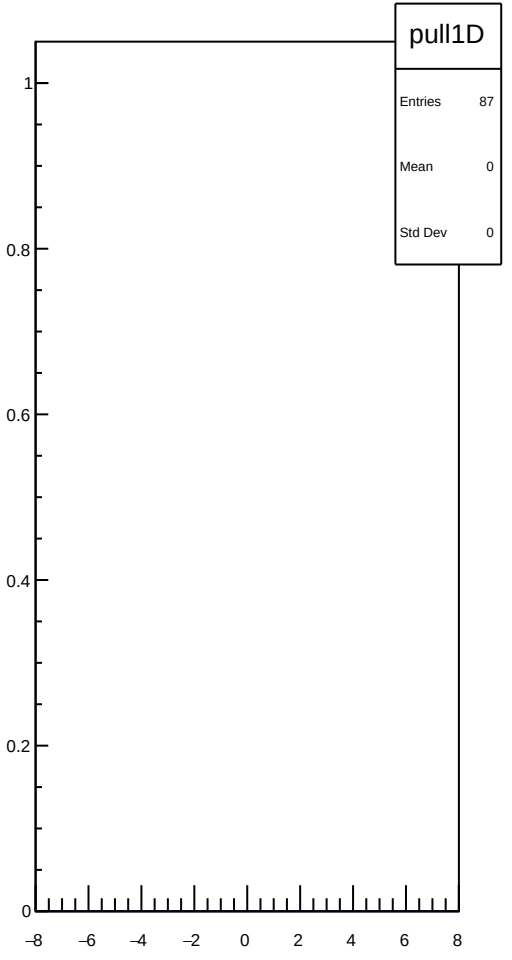

dit_usl_coil4_err_mean vs run
χ² / ndf 7.925e+35 / 86
p0 390.5 ± 1.072e−16
pull
Entries 87
Mean 2.803e+09
Std Dev 2.803e+09

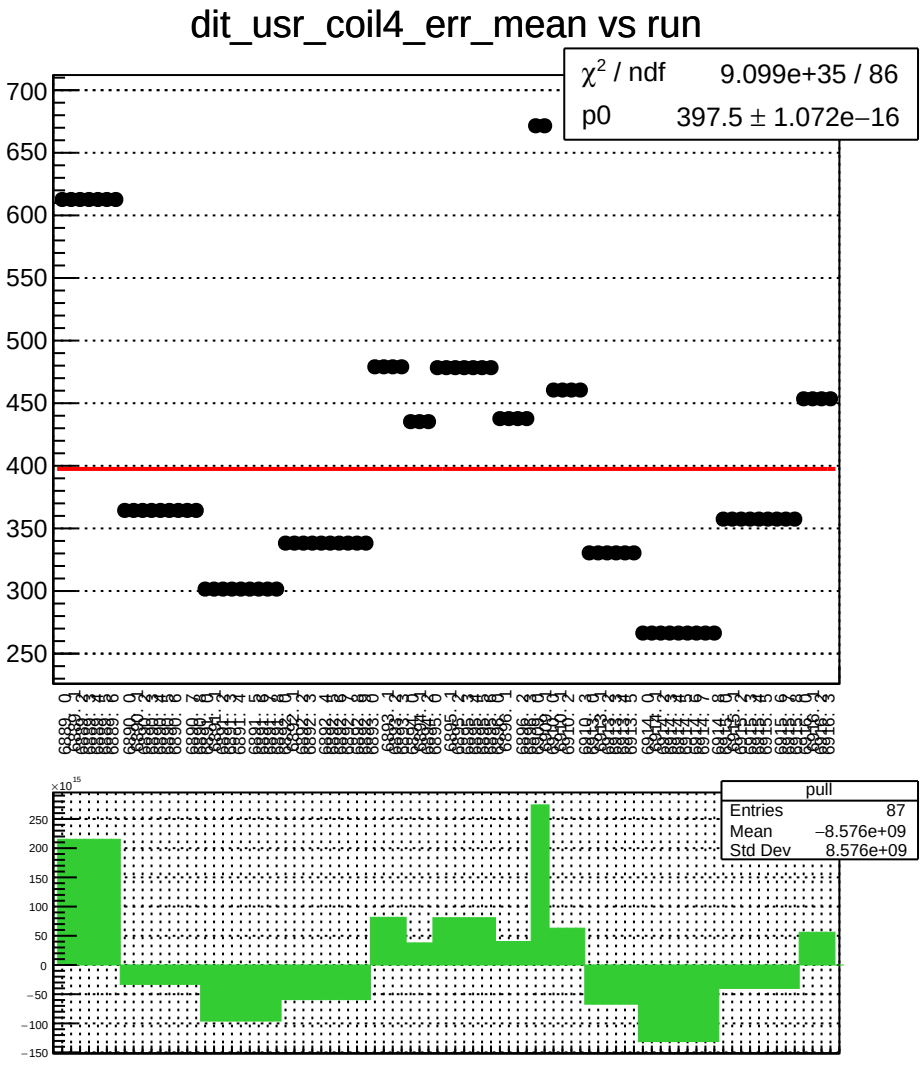

pull1D
Entries 87
Mean 0
Std Dev 0

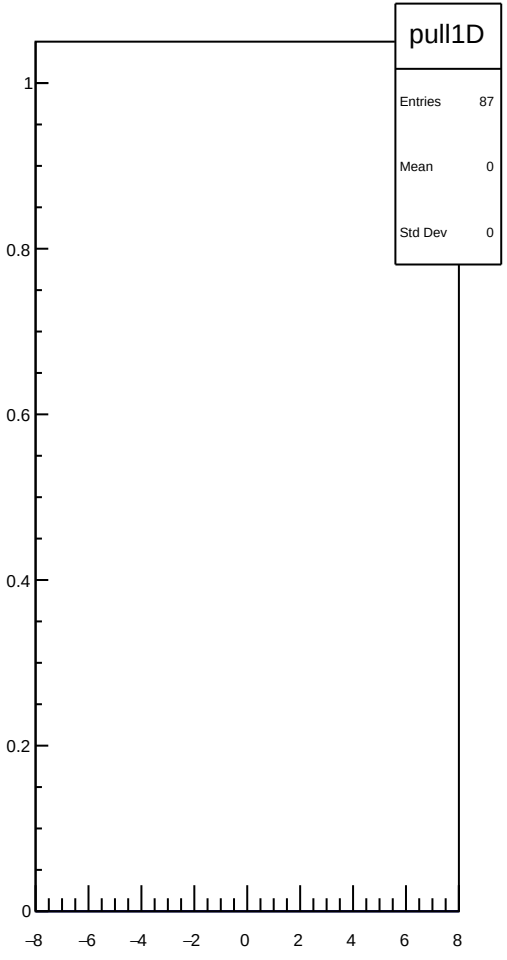

dit_usl_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

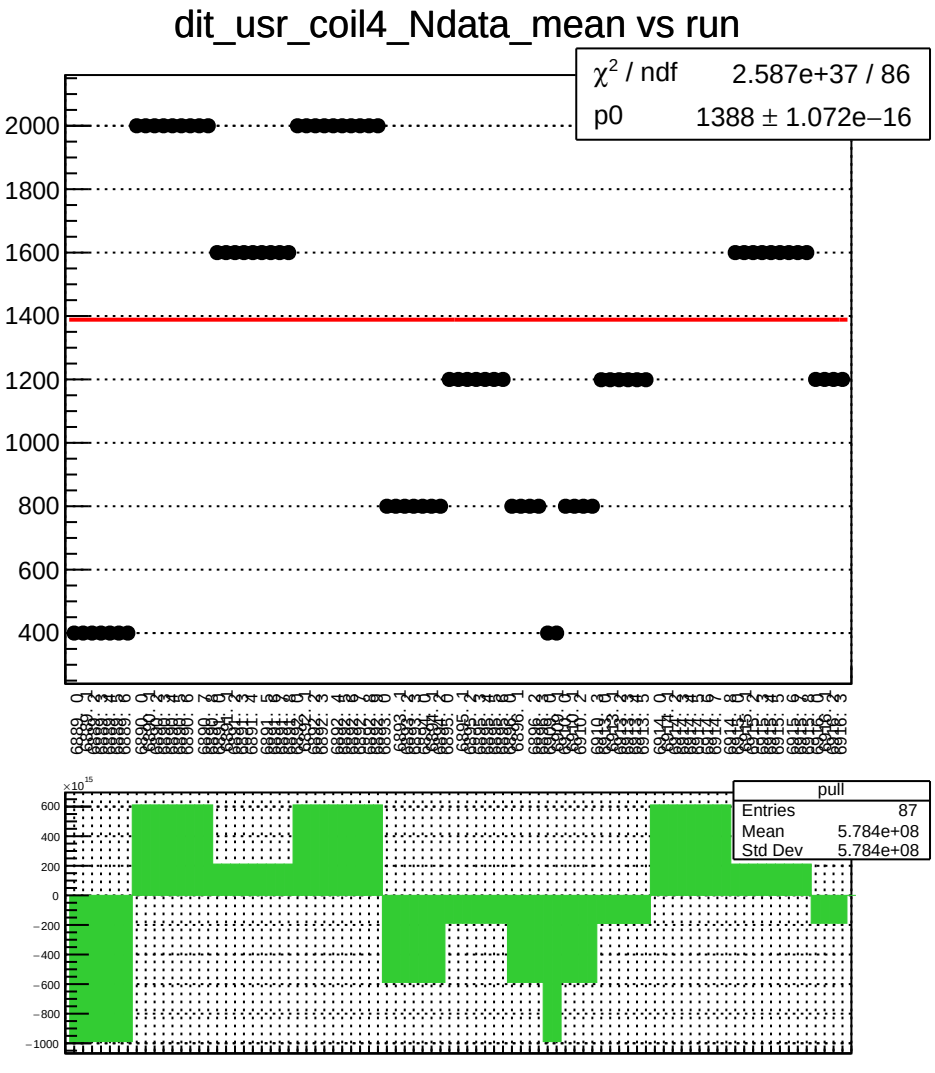

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

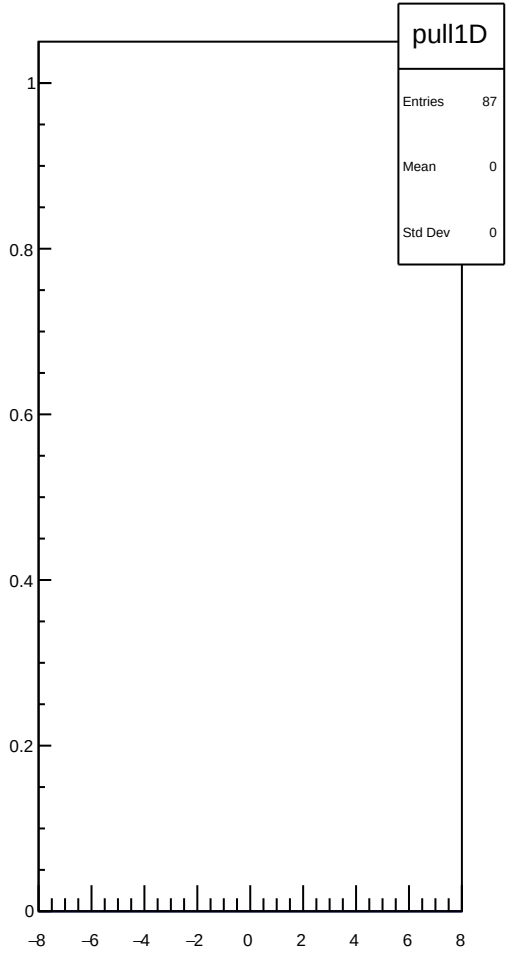

dit_usr_coil4_mean vs run
χ² / ndf 4.784e+36 / 86
p0 3662 ± 1.072e−16
4600
4400
4200
4000
3800
3600
3400
pull
Entries 87
Mean 2.063e+09
Std Dev 2.063e+09
×10¹⁵
800
600
400
200
0
−200

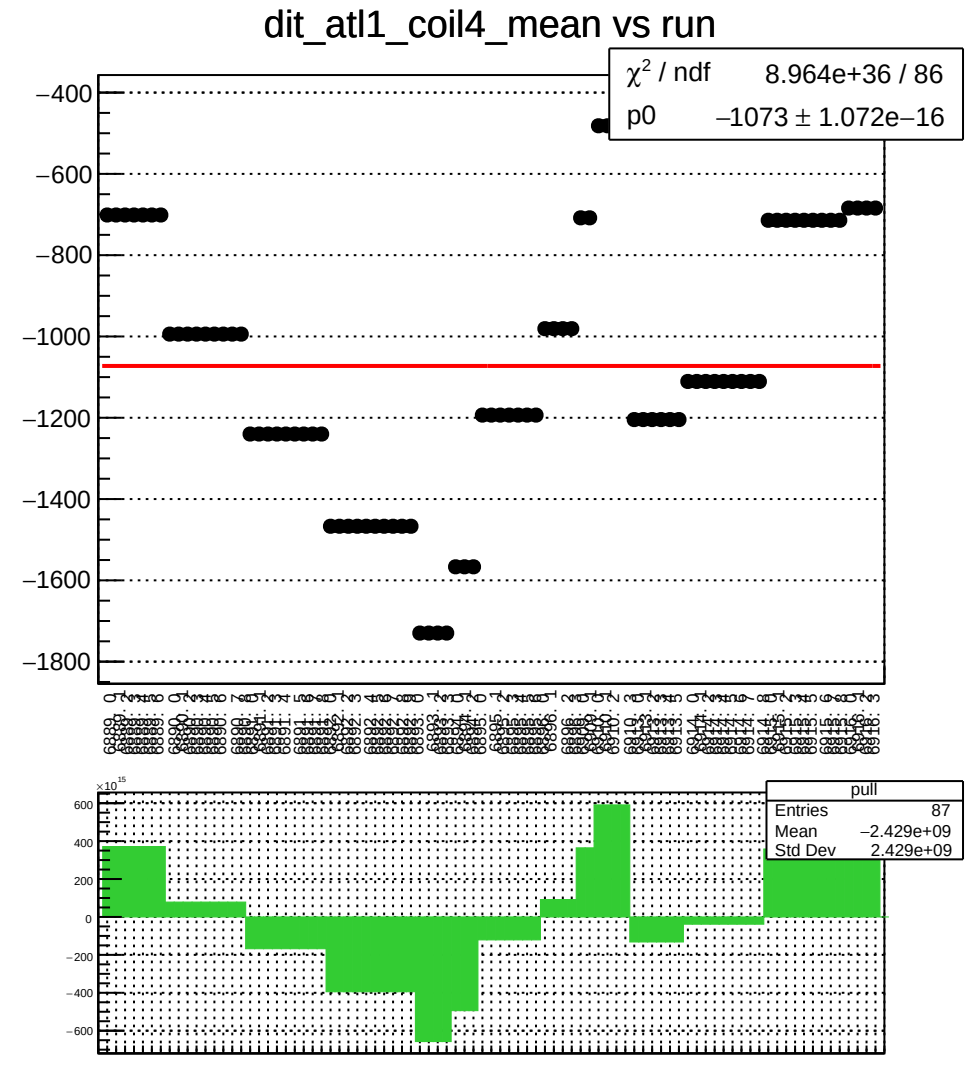

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

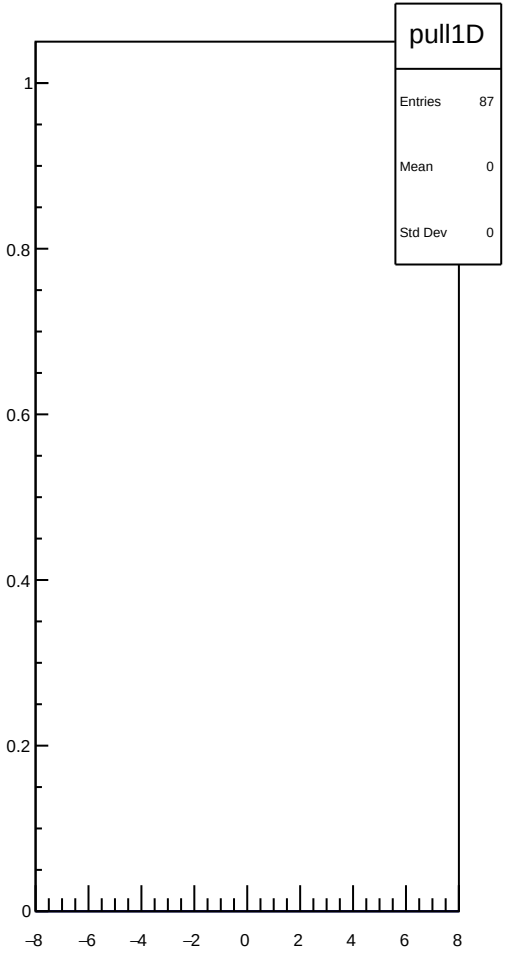

dit_usr_coil4_err_mean vs run
χ² / ndf 9.099e+35 / 86
p0 397.5 ± 1.072e−16
pull
Entries 87
Mean −8.576e+09
Std Dev 8.576e+09

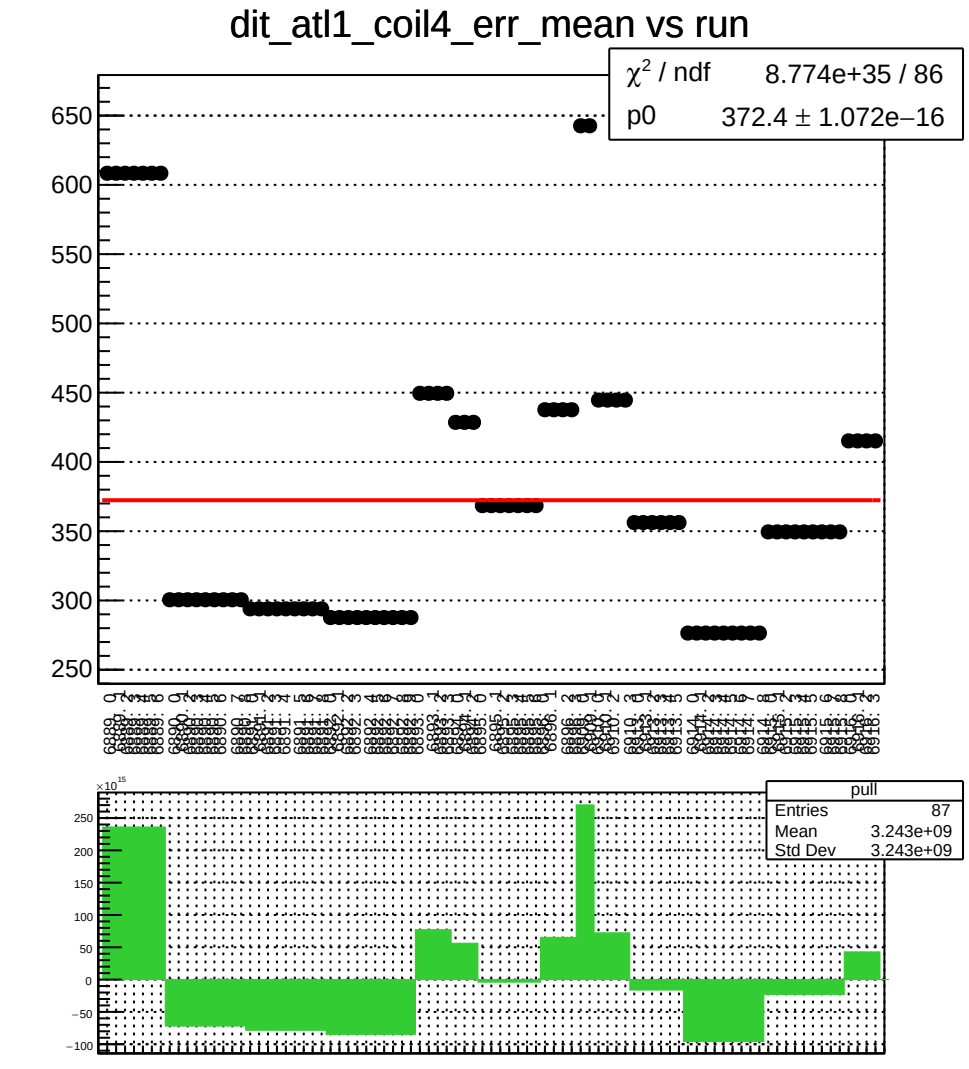

pull1D
Entries 87
Mean 0
Std Dev 0

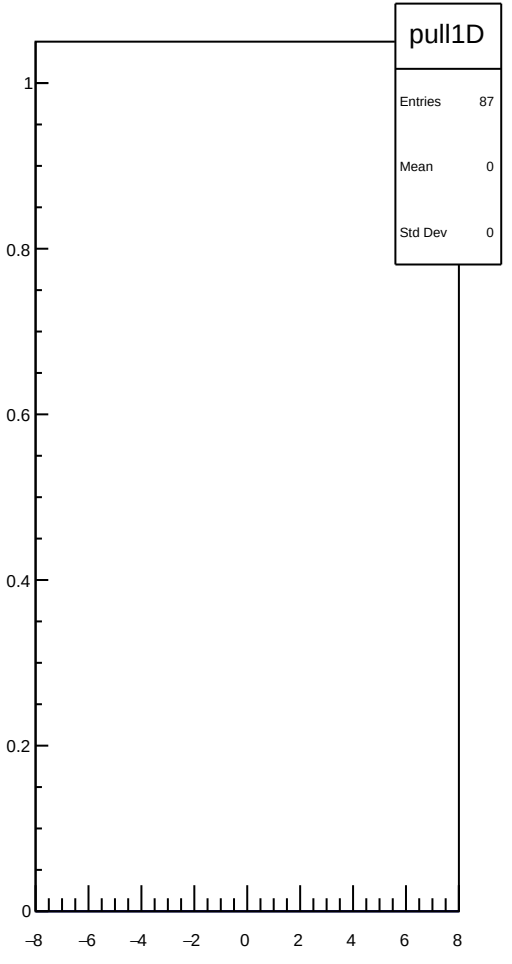

dit_usr_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

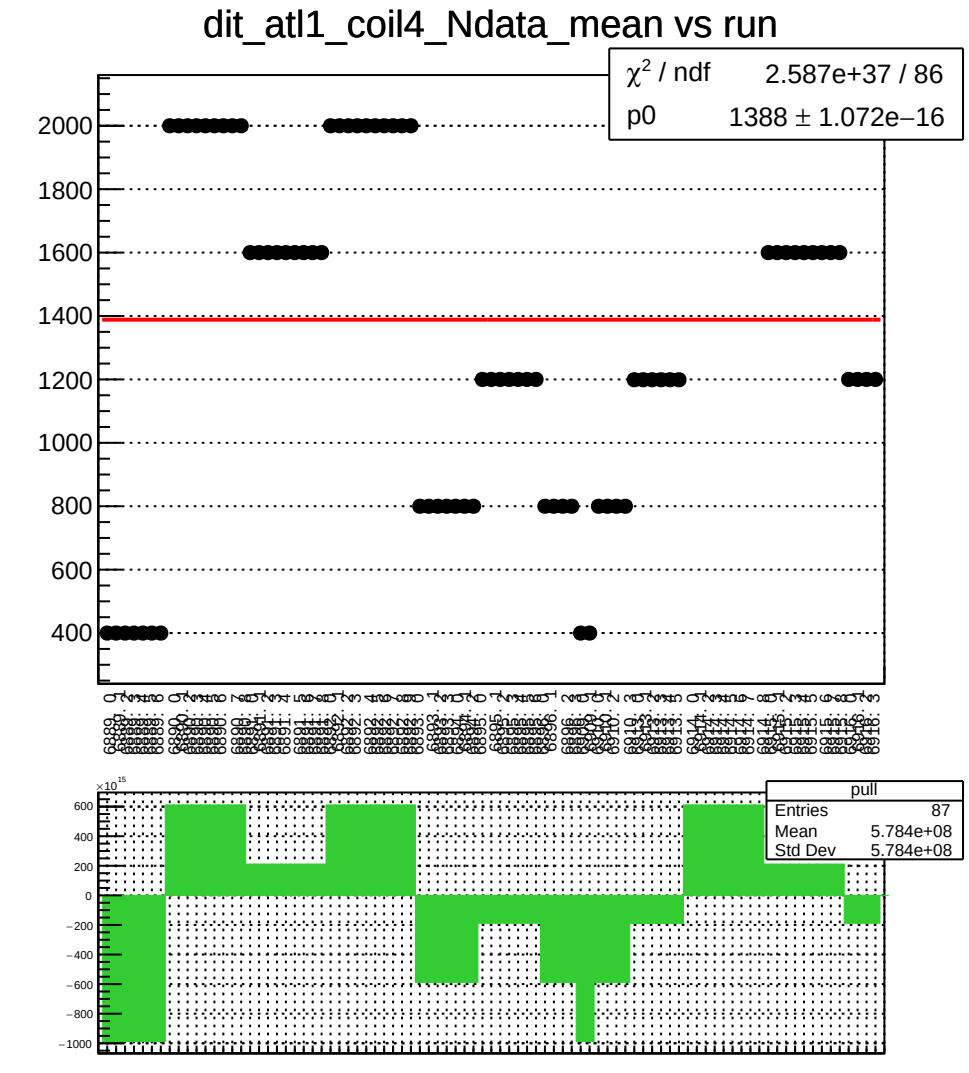

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

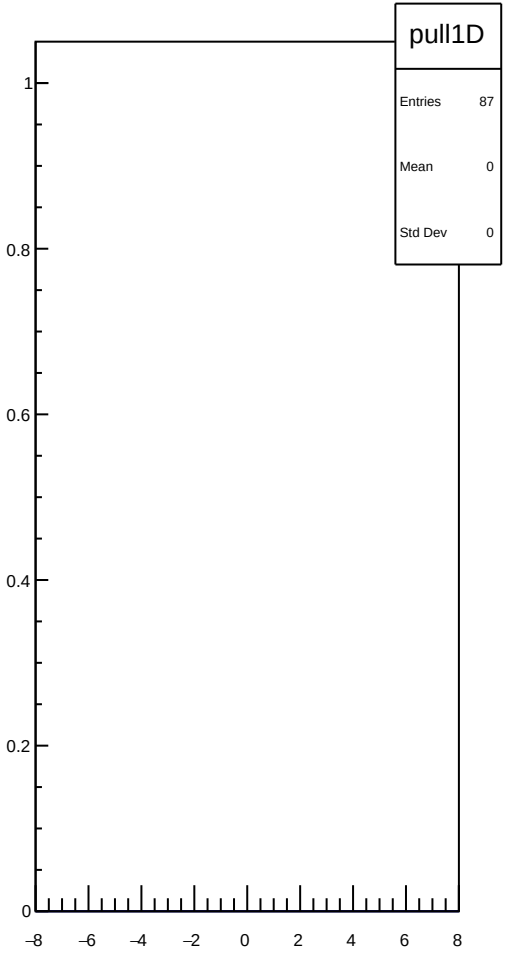

dit_atl1_coil4_mean vs run
χ² / ndf 8.964e+36 / 86
p0 −1073 ± 1.072e−16
−400
−600
−800
−1000
−1200
−1400
−1600
−1800
pull
Entries 87
Mean −2.429e+09
Std Dev 2.429e+09
×10¹⁵
600
400
200
0
−200
−400
−600

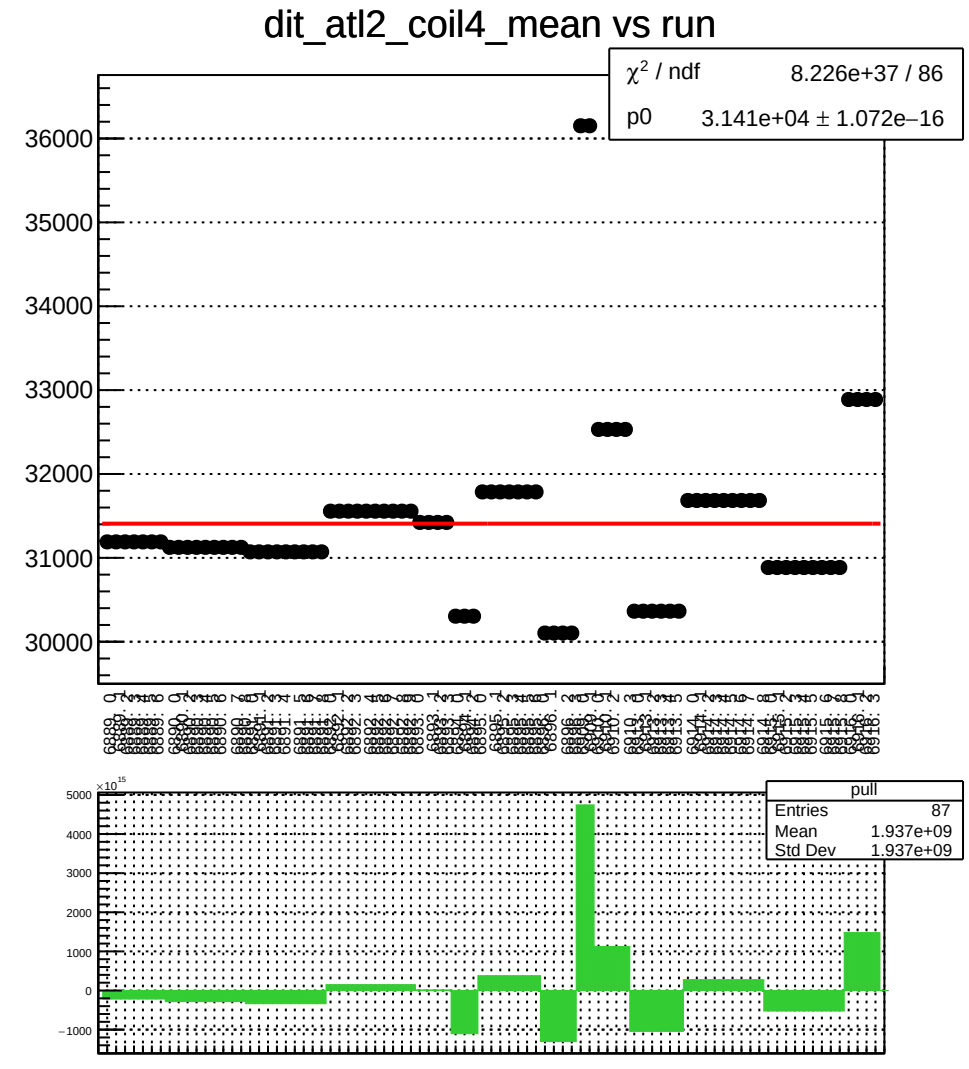

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

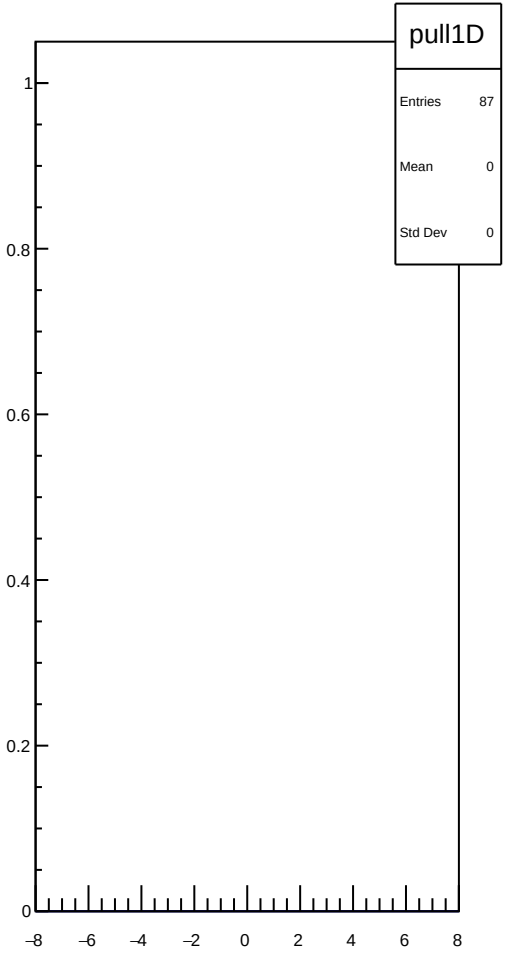

dit_atl1_coil4_err_mean vs run
χ² / ndf 8.774e+35 / 86
p0 372.4 ± 1.072e−16
650
600
550
500
450
400
350
300
250
pull
Entries 87
Mean 3.243e+09
Std Dev 3.243e+09
×10¹⁵
250
200
150
100
50
0
−50
−100

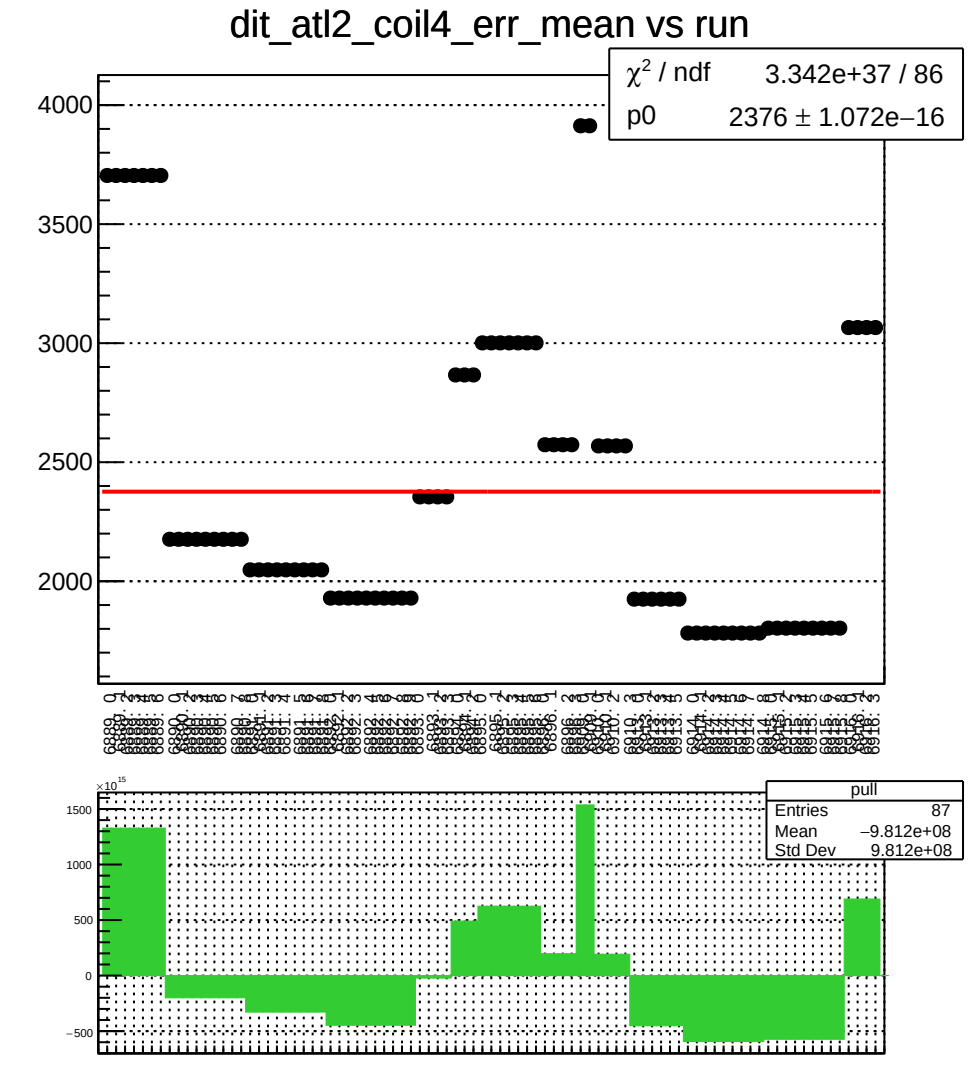

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

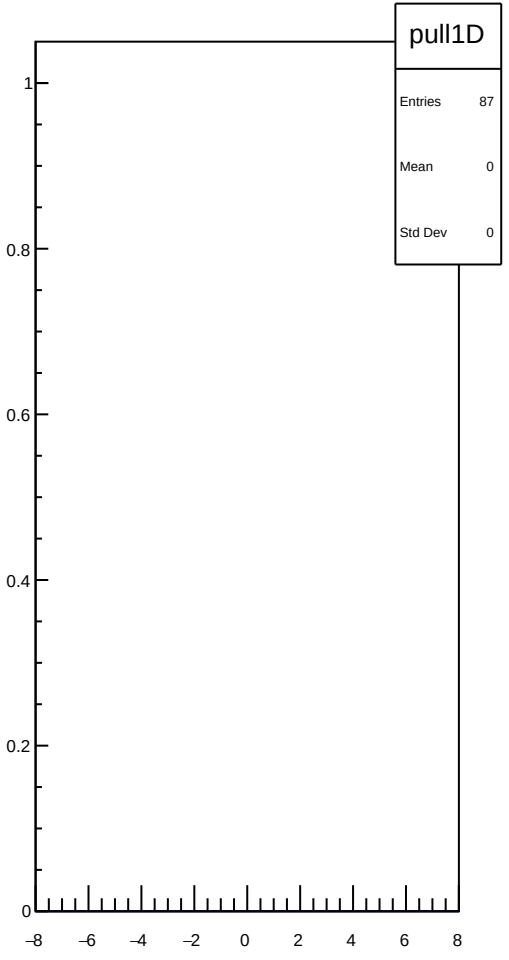

dit_atl1_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

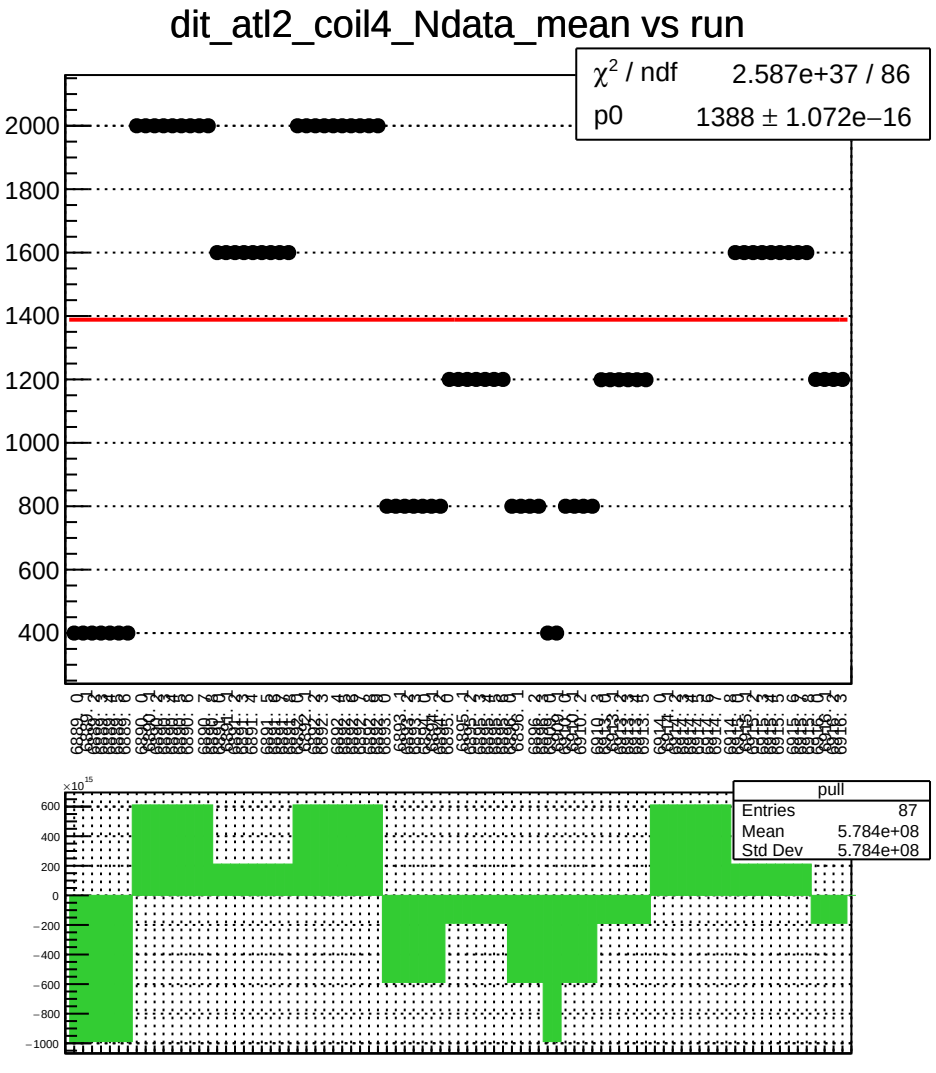

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

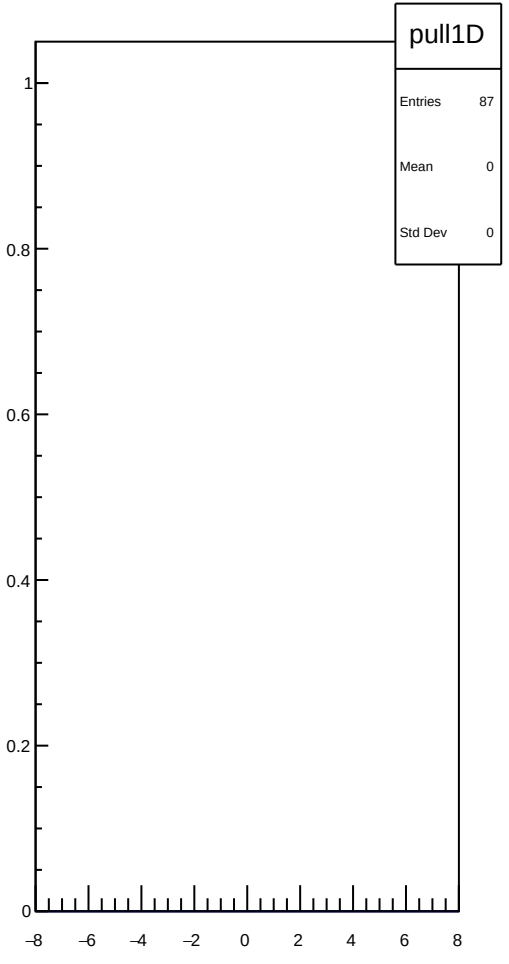

dit_atl2_coil4_mean vs run
χ² / ndf 8.226e+37 / 86
p0 3.141e+04 ± 1.072e−16
36000
35000
34000
33000
32000
31000
30000
×10¹⁵
5000
4000
3000
2000
1000
0
−1000
pull
Entries 87
Mean 1.937e+09
Std Dev 1.937e+09

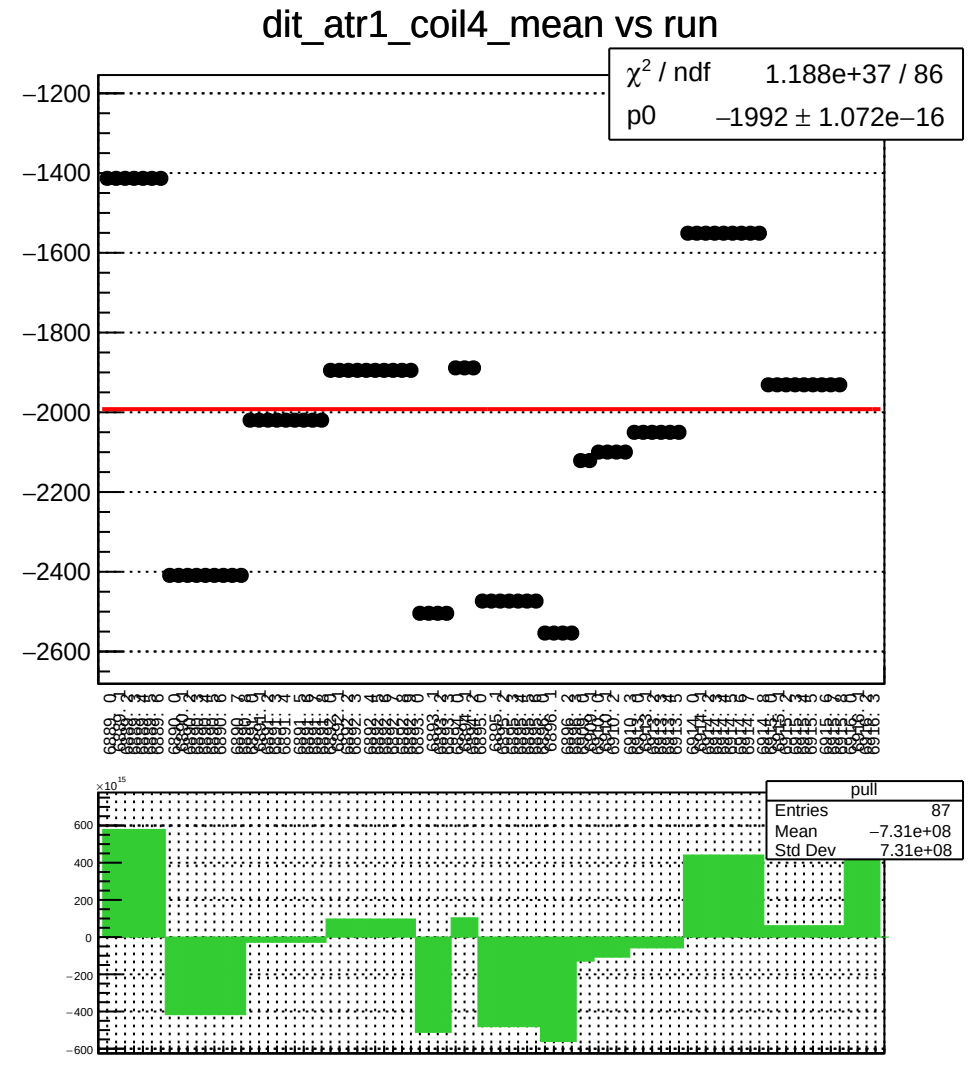

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

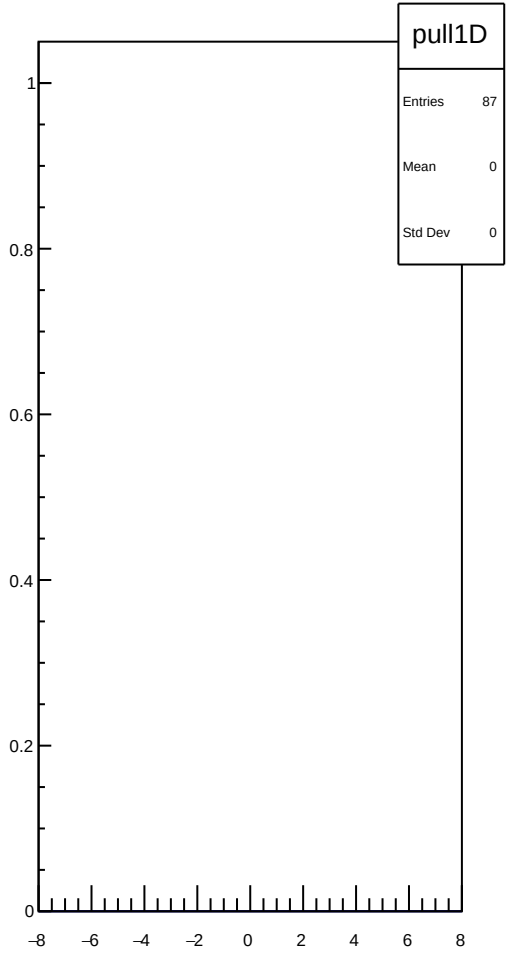

dit_atl2_coil4_err_mean vs run
χ² / ndf 3.342e+37 / 86
p0 2376 ± 1.072e−16
4000
3500
3000
2500
2000
×10¹⁵
1500
1000
500
0
−500
pull
Entries 87
Mean −9.812e+08
Std Dev 9.812e+08

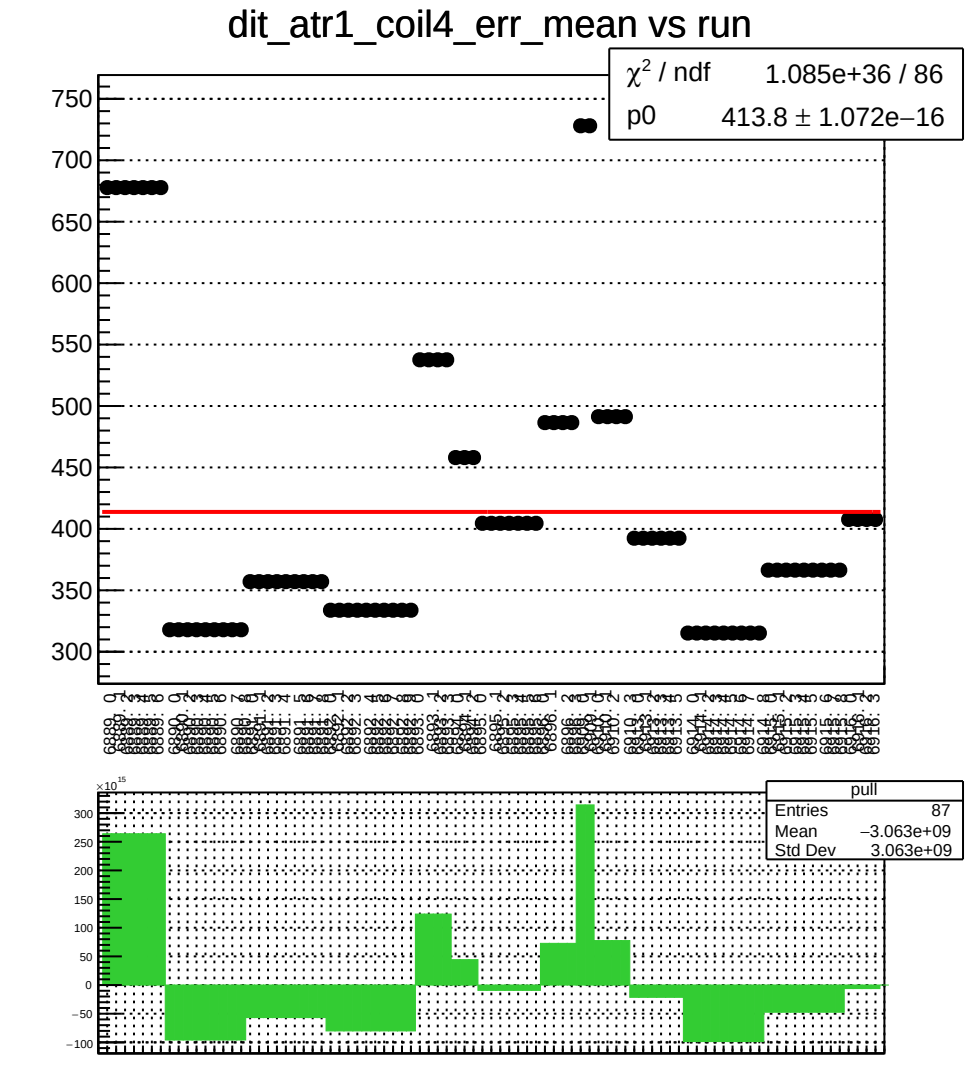

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

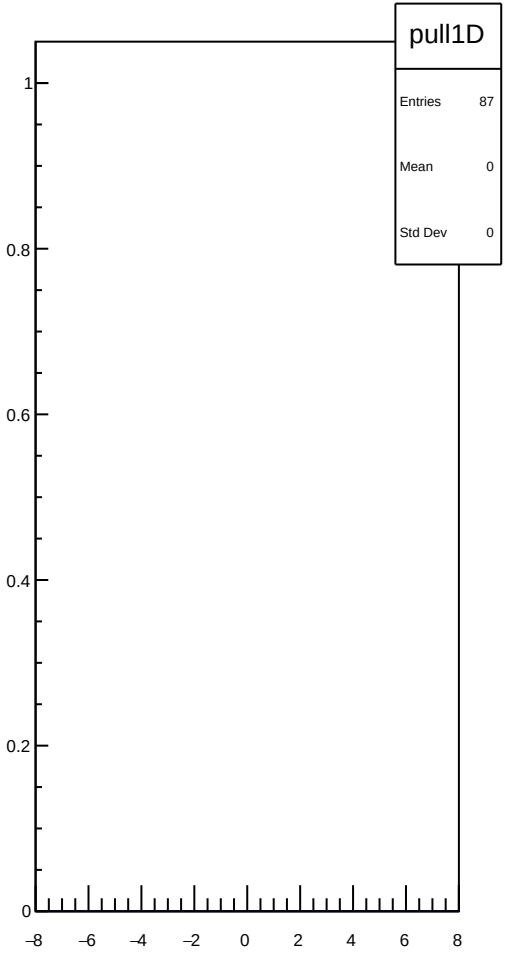

dit_atl2_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

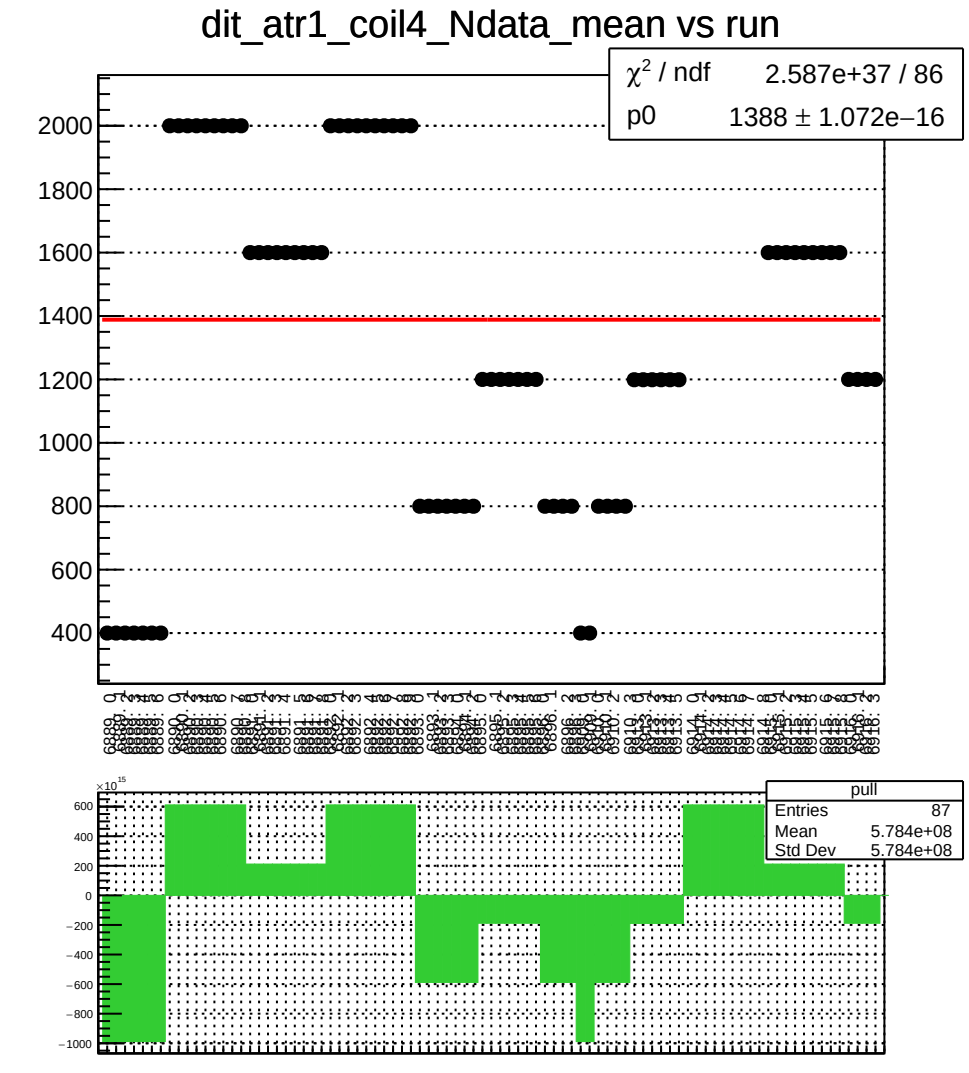

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

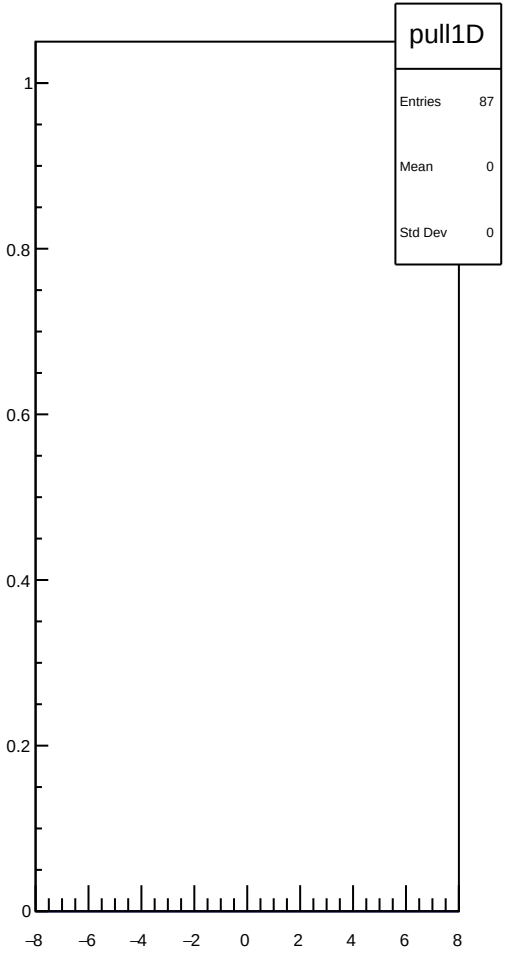

dit_atr1_coil4_mean vs run
χ² / ndf 1.188e+37 / 86
p0 −1992 ± 1.072e−16
−1200
−1400
−1600
−1800
−2000
−2200
−2400
−2600
pull
Entries 87
Mean −7.31e+08
Std Dev 7.31e+08
×10¹⁵
600
400
200
0
−200
−400
−600

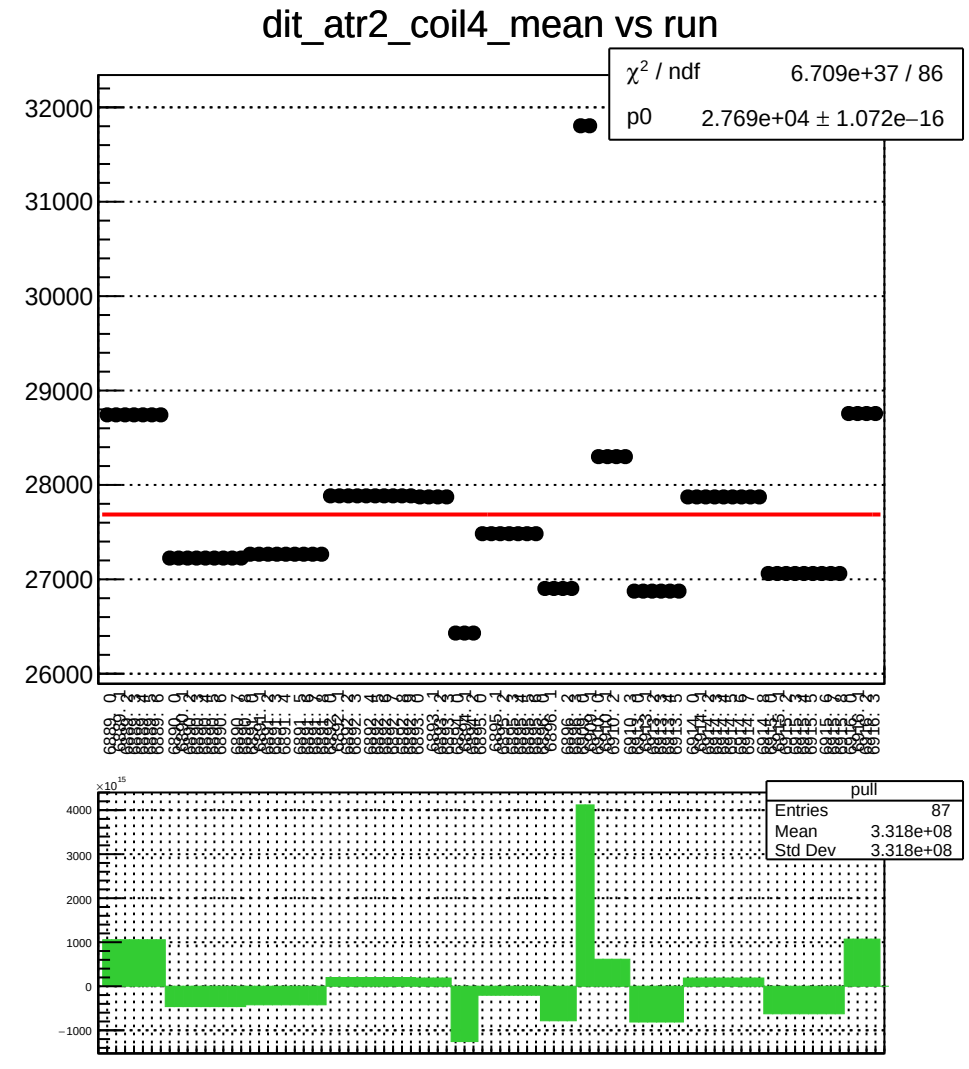

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

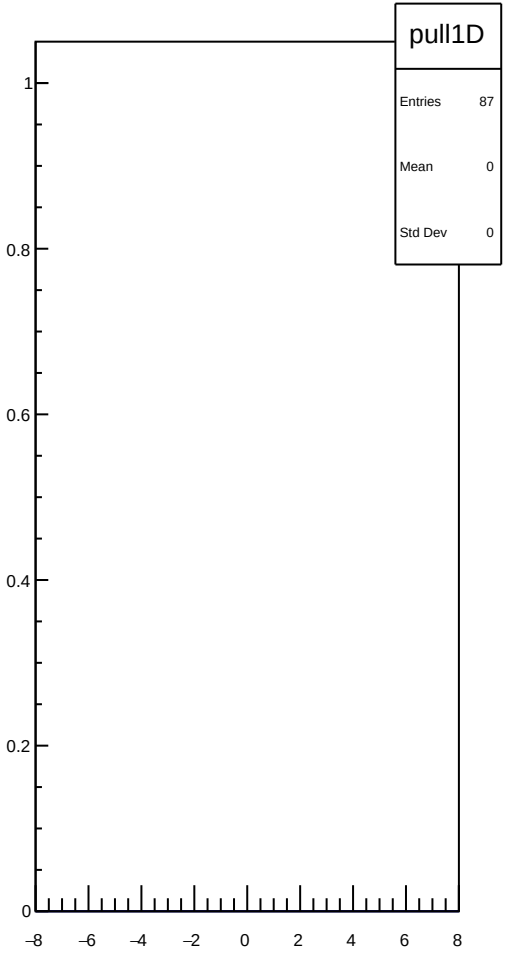

dit_atr1_coil4_err_mean vs run
χ² / ndf 1.085e+36 / 86
p0 413.8 ± 1.072e−16
pull
Entries 87
Mean −3.063e+09
Std Dev 3.063e+09

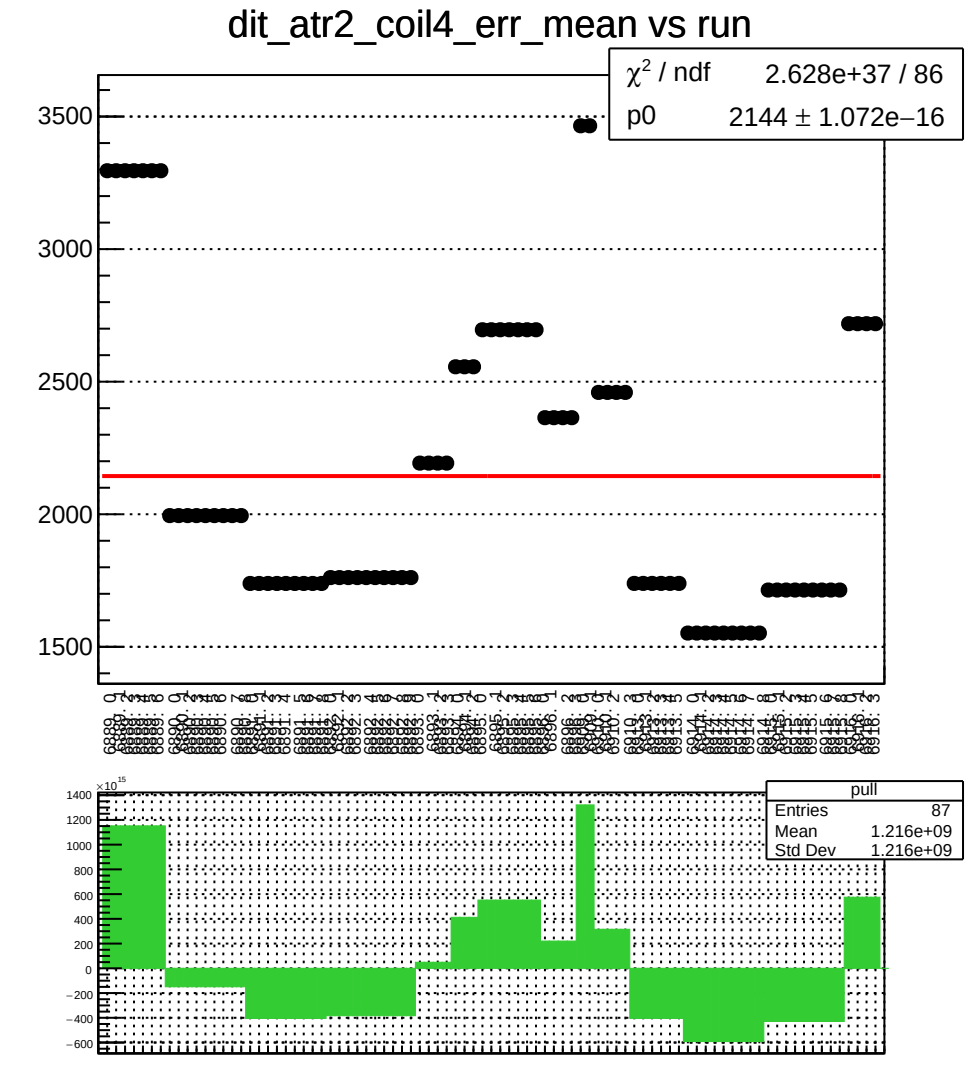

pull1D
Entries 87
Mean 0
Std Dev 0

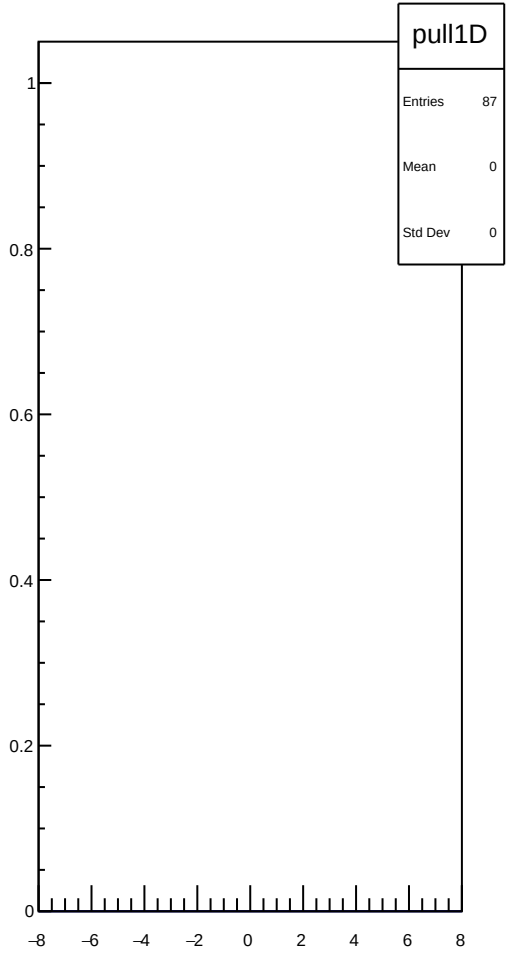

dit_atr1_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

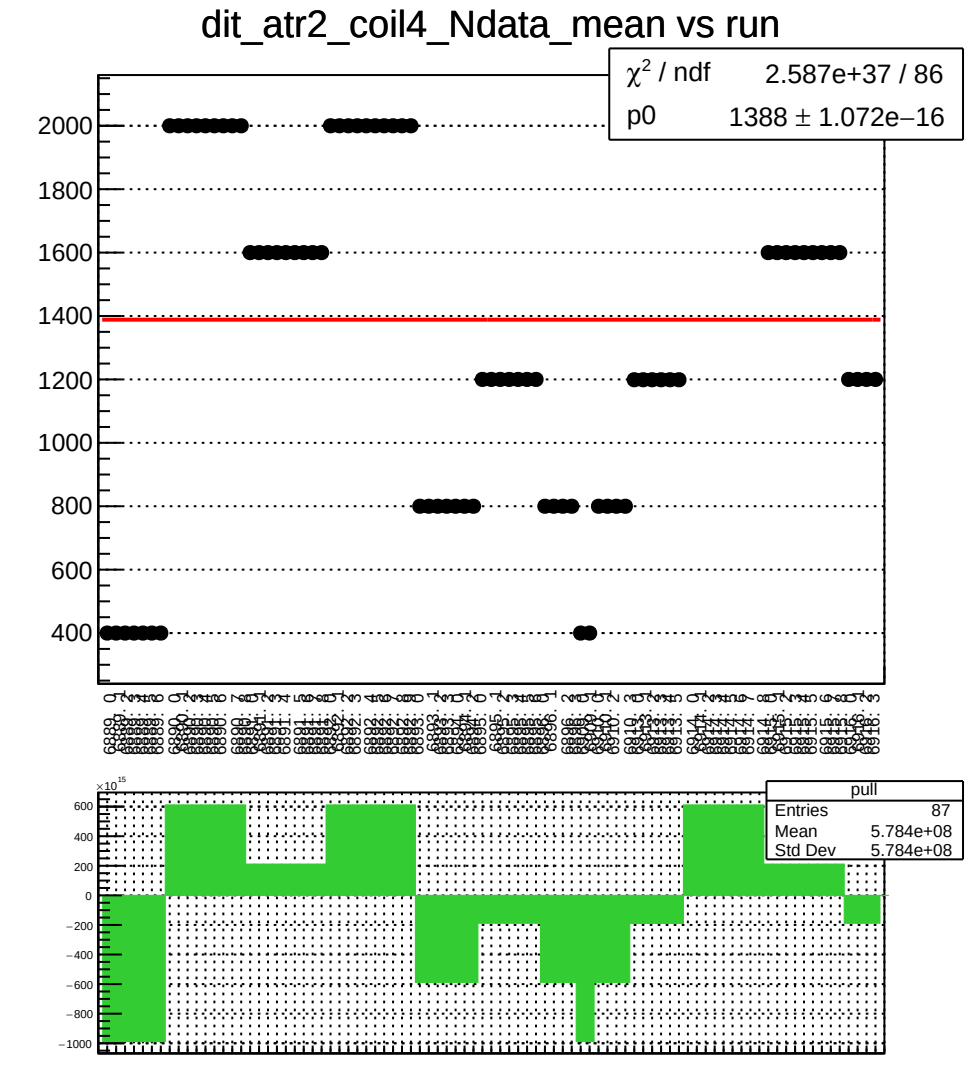

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

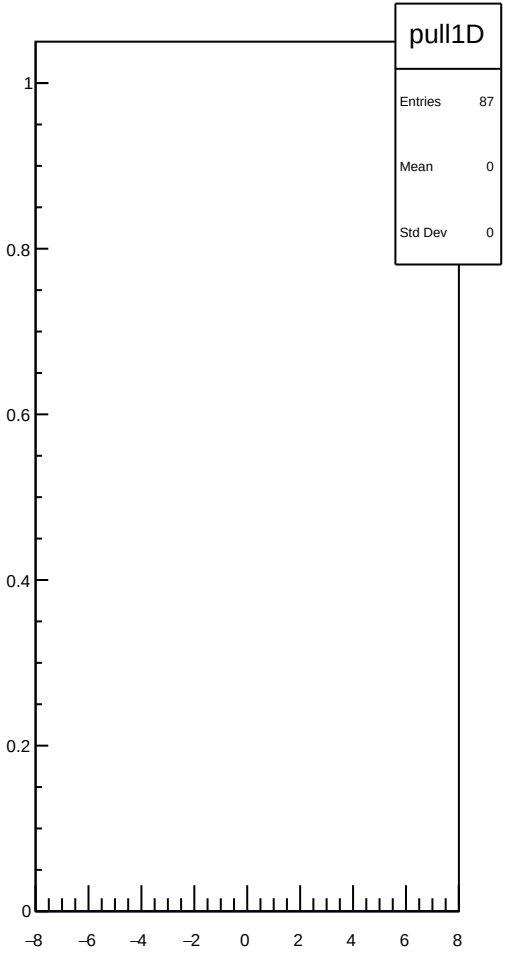

dit_atr2_coil4_mean vs run
χ² / ndf 6.709e+37 / 86
p0 2.769e+04 ± 1.072e−16
32000
31000
30000
29000
28000
27000
26000
pull
Entries 87
Mean 3.318e+08
Std Dev 3.318e+08
×10¹⁵
4000
3000
2000
1000
0
−1000

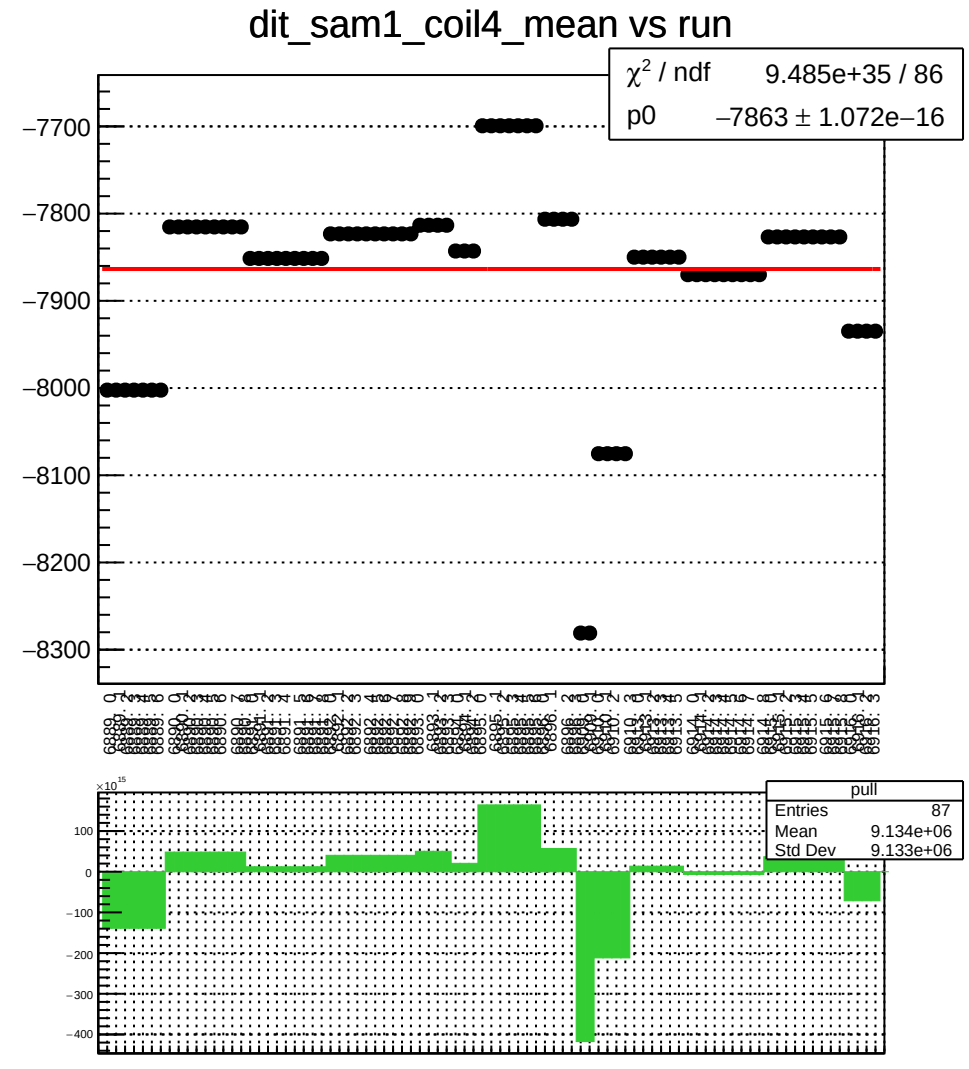

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

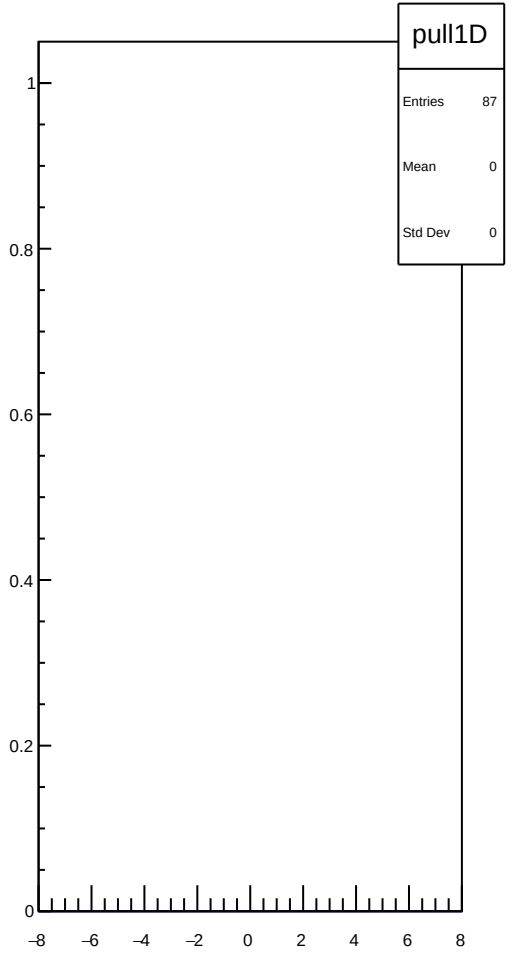

dit_atr2_coil4_err_mean vs run
χ² / ndf 2.628e+37 / 86
p0 2144 ± 1.072e−16
3500
3000
2500
2000
1500
pull
Entries 87
Mean 1.216e+09
Std Dev 1.216e+09
×10¹⁵
1400
1200
1000
800
600
400
200
0
−200
−400
−600

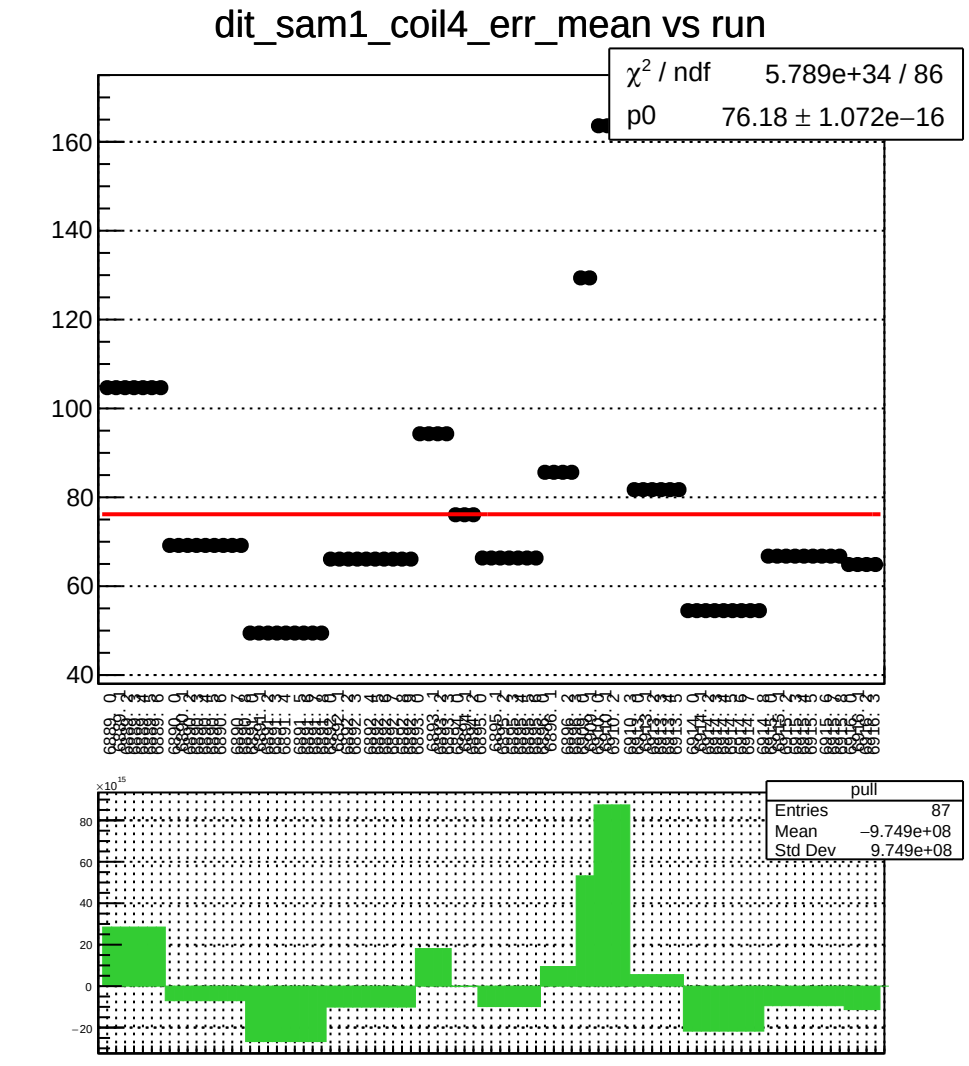

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

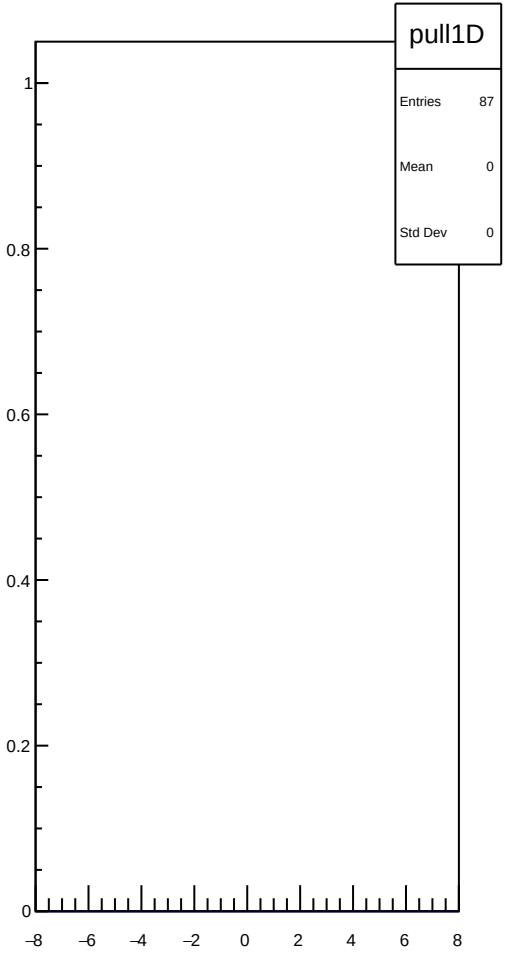

dit_atr2_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

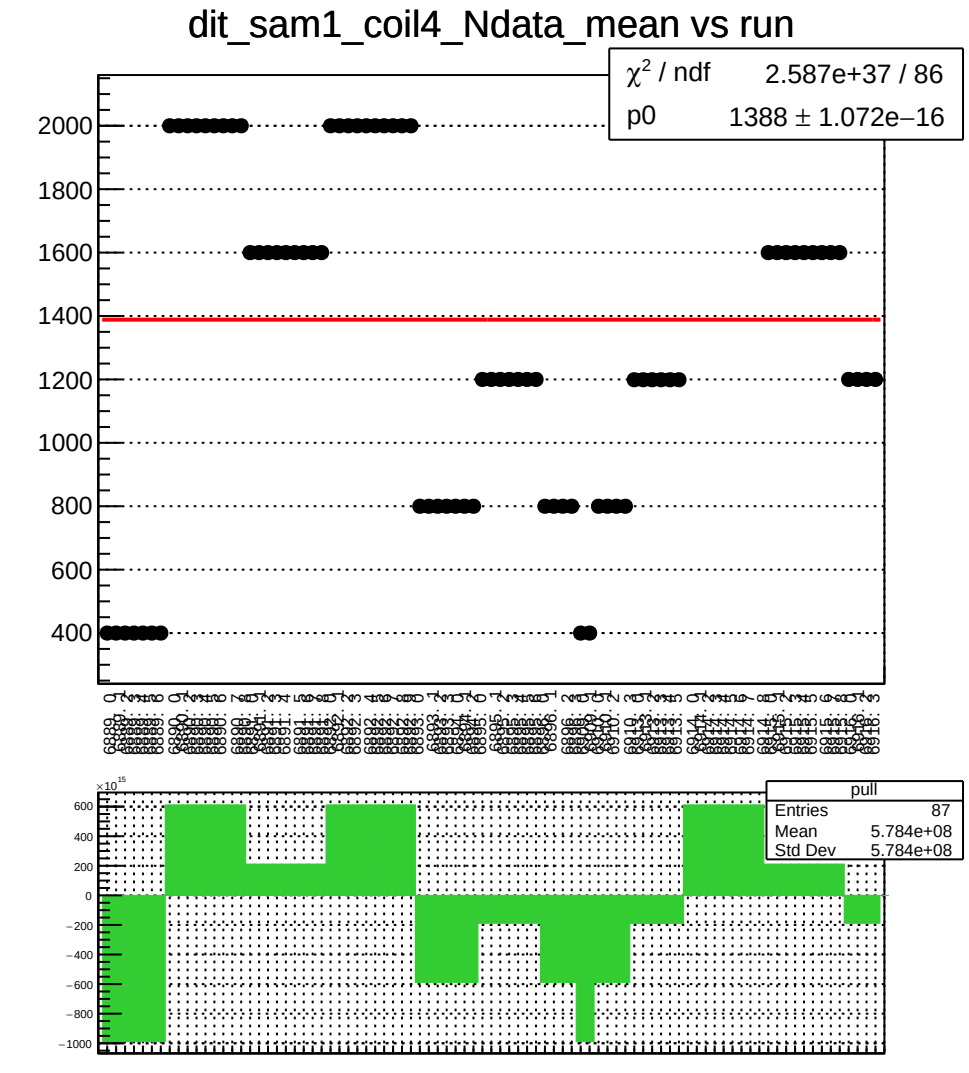

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

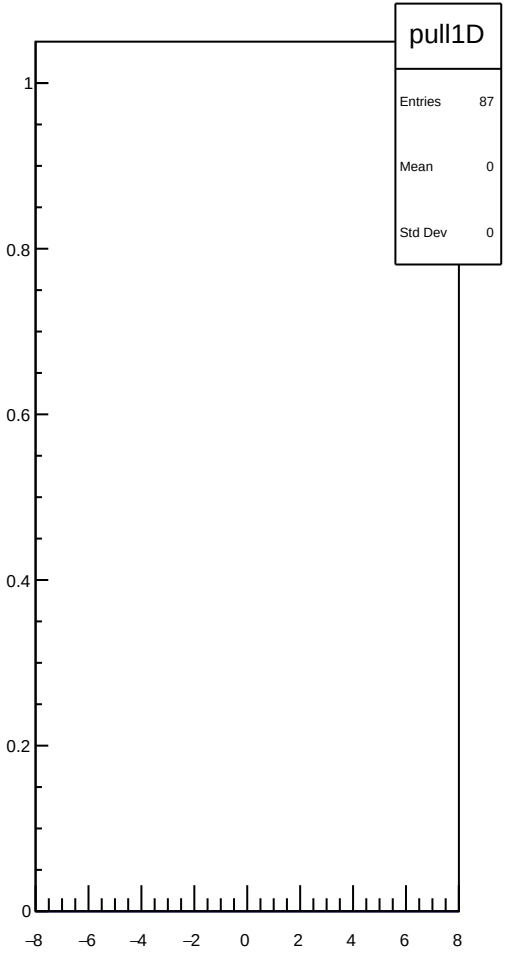

dit_sam1_coil4_mean vs run
χ² / ndf 9.485e+35 / 86
p0 −7863 ± 1.072e−16
−7700
−7800
−7900
−8000
−8100
−8200
−8300
pull
Entries 87
Mean 9.134e+06
Std Dev 9.133e+06
×10¹⁵
100
0
−100
−200
−300
−400

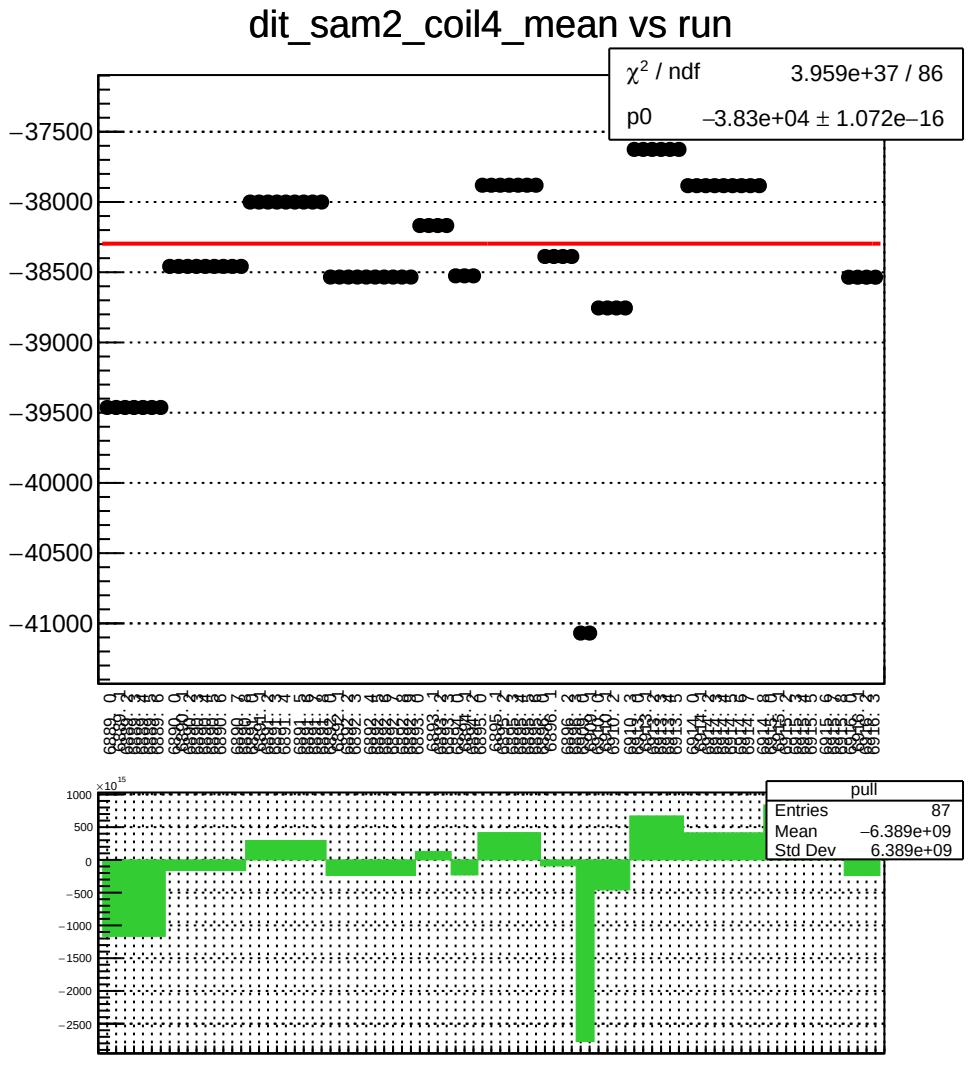

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

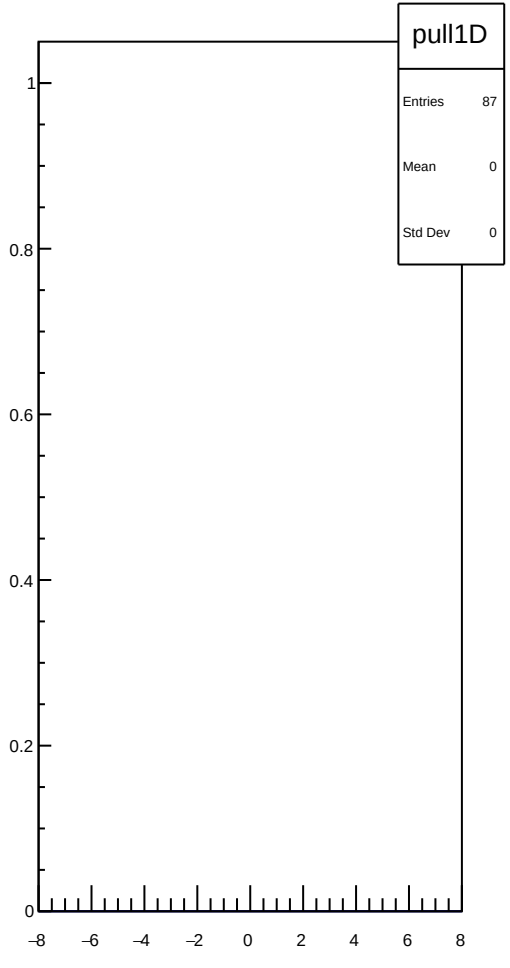

dit_sam1_coil4_err_mean vs run
χ² / ndf 5.789e+34 / 86
p0 76.18 ± 1.072e−16
160
140
120
100
80
60
40
pull
Entries 87
Mean −9.749e+08
Std Dev 9.749e+08
×10¹⁵
80
60
40
20
0
−20

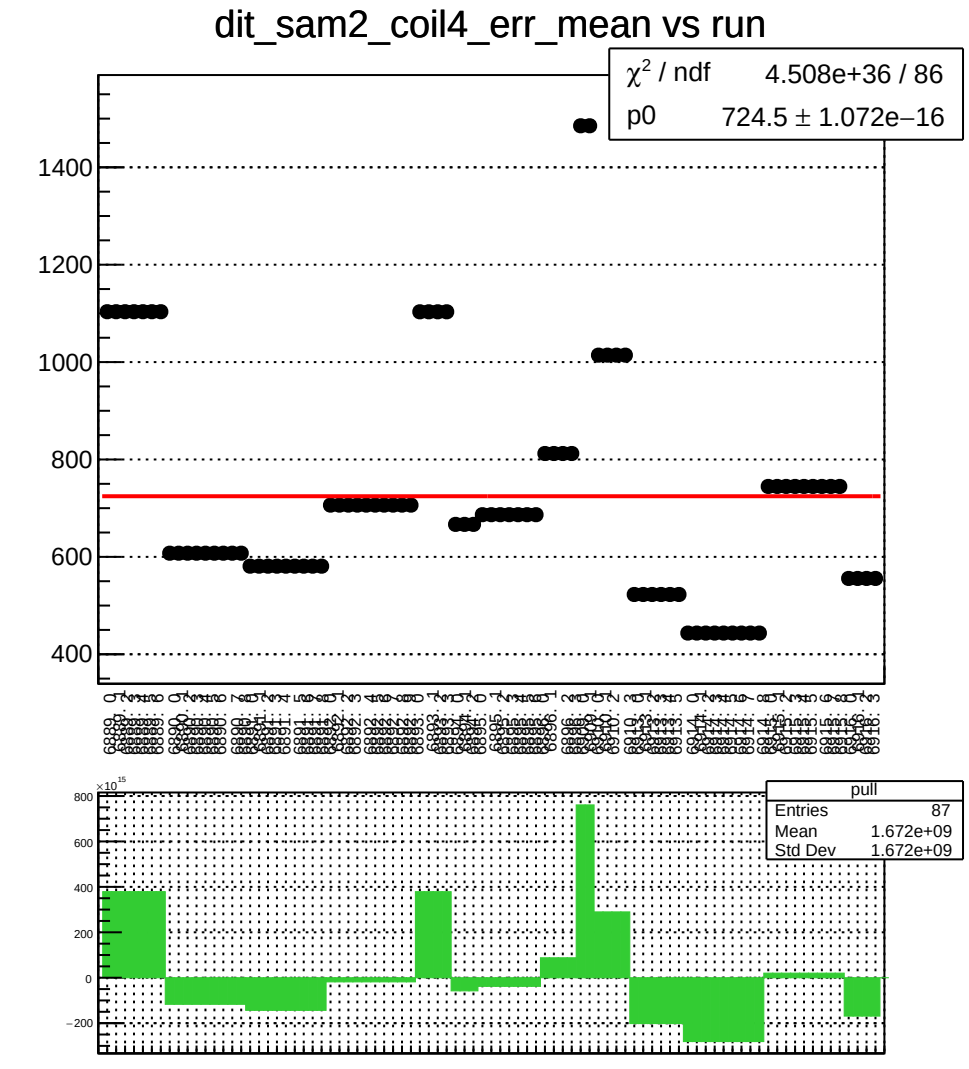

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

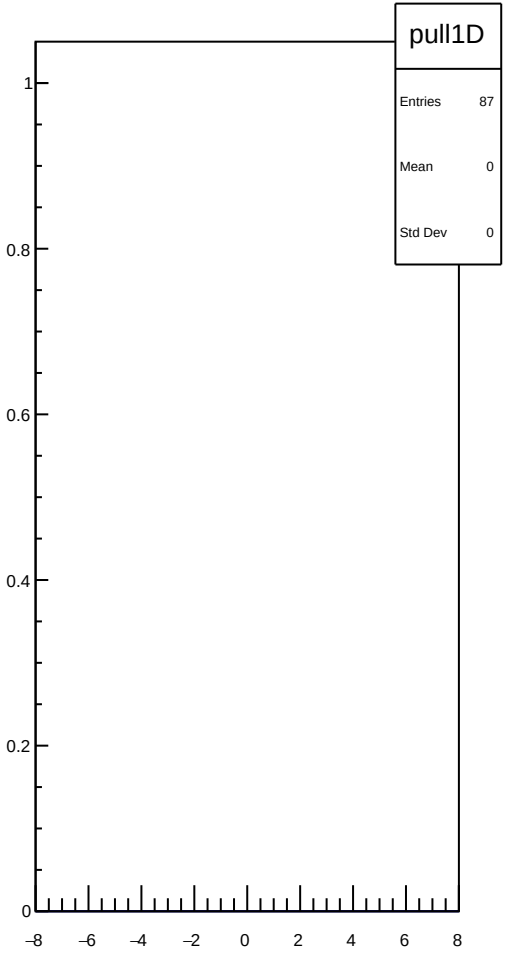

dit_sam1_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

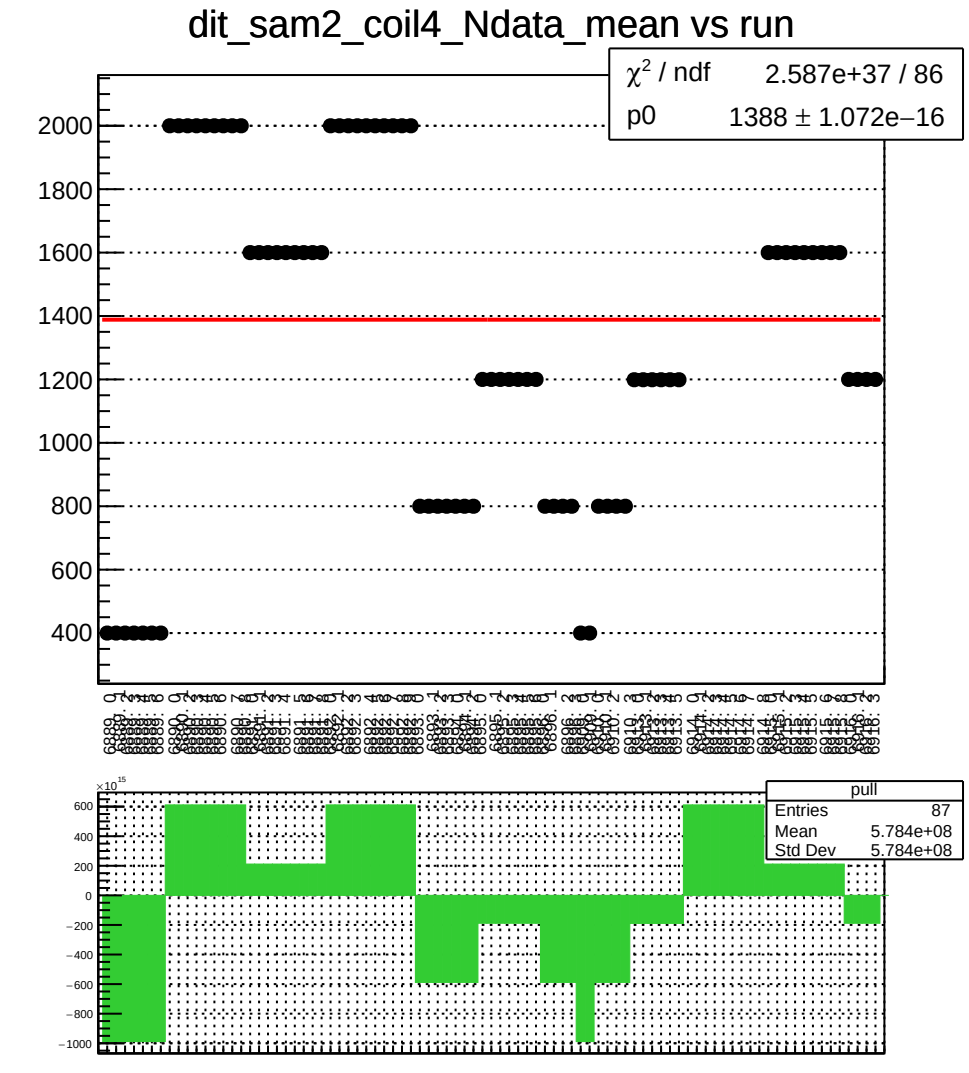

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

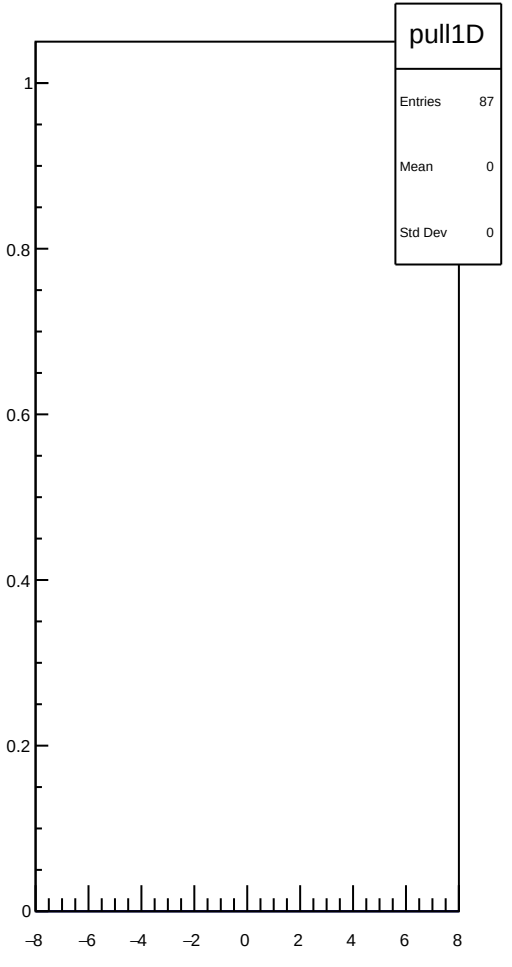

dit_sam2_coil4_mean vs run
χ² / ndf 3.959e+37 / 86
p0 −3.83e+04 ± 1.072e−16
−37500
−38000
−38500
−39000
−39500
−40000
−40500
−41000
pull
Entries 87
Mean −6.389e+09
Std Dev 6.389e+09
×10¹⁵
1000
500
0
−500
−1000
−1500
−2000
−2500

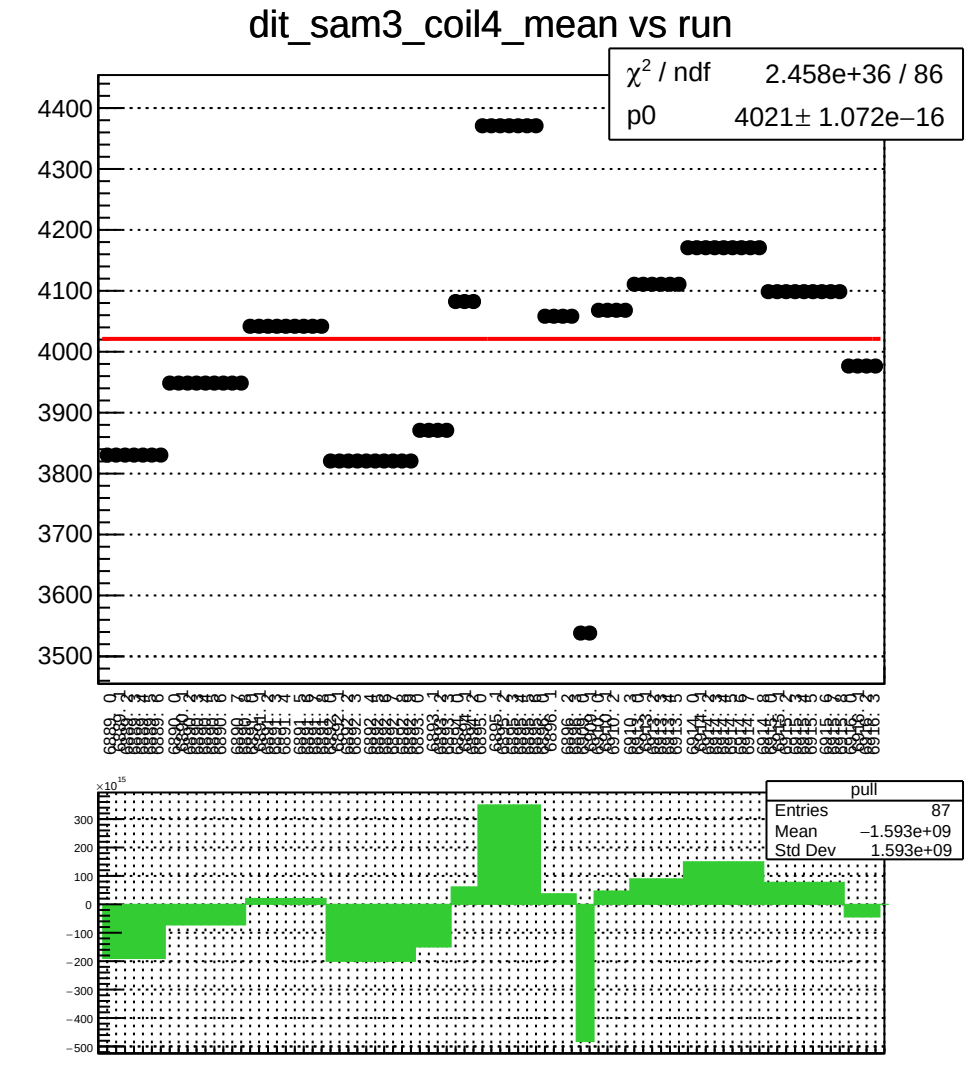

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

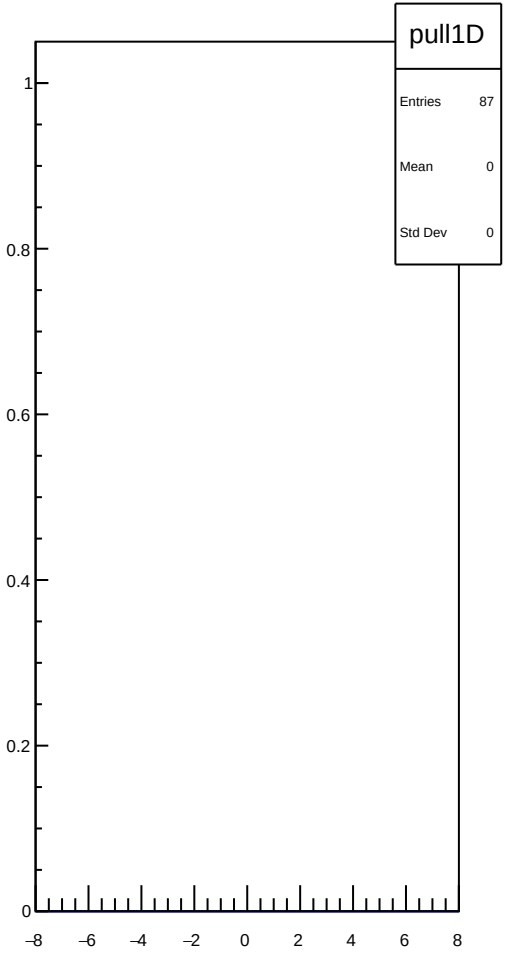

dit_sam2_coil4_err_mean vs run
χ² / ndf 4.508e+36 / 86
p0 724.5 ± 1.072e−16
1400
1200
1000
800
600
400
×10¹⁵
800
600
400
200
0
−200
pull
Entries 87
Mean 1.672e+09
Std Dev 1.672e+09

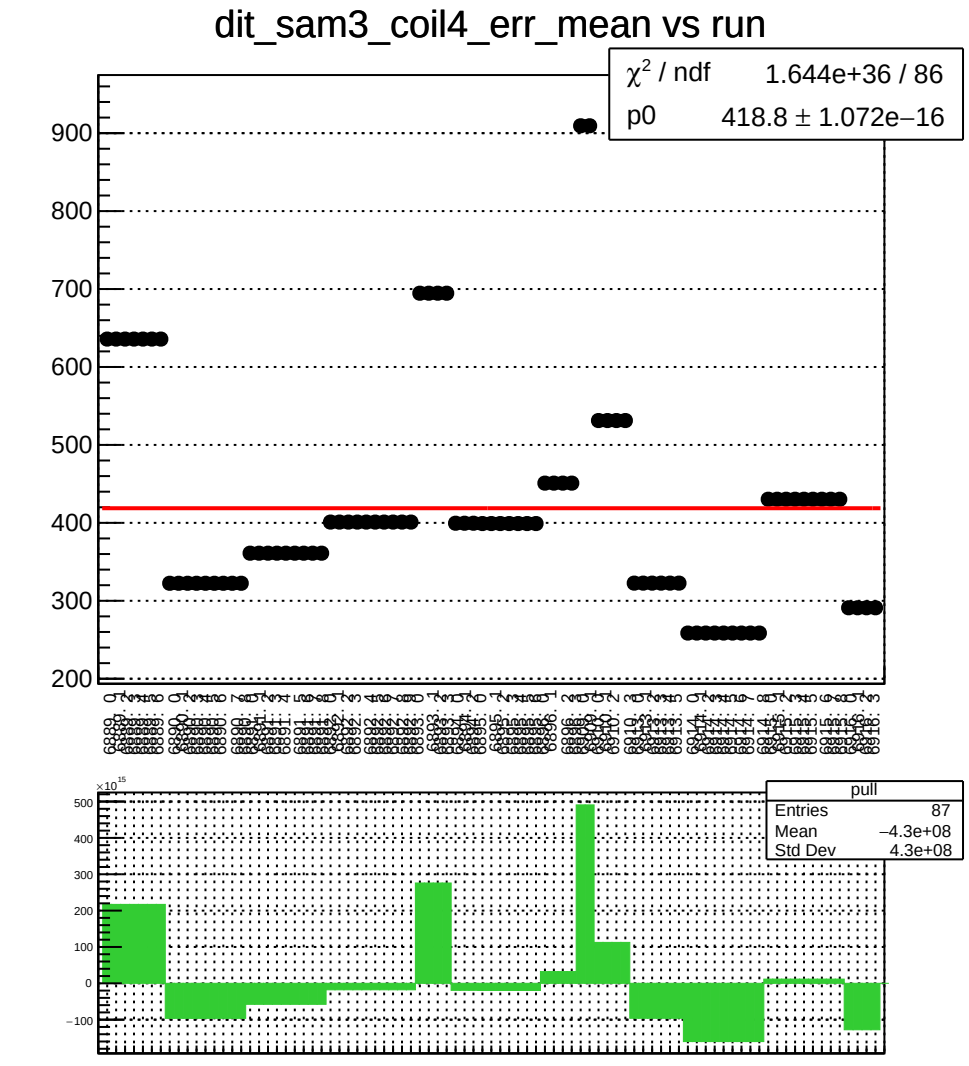

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

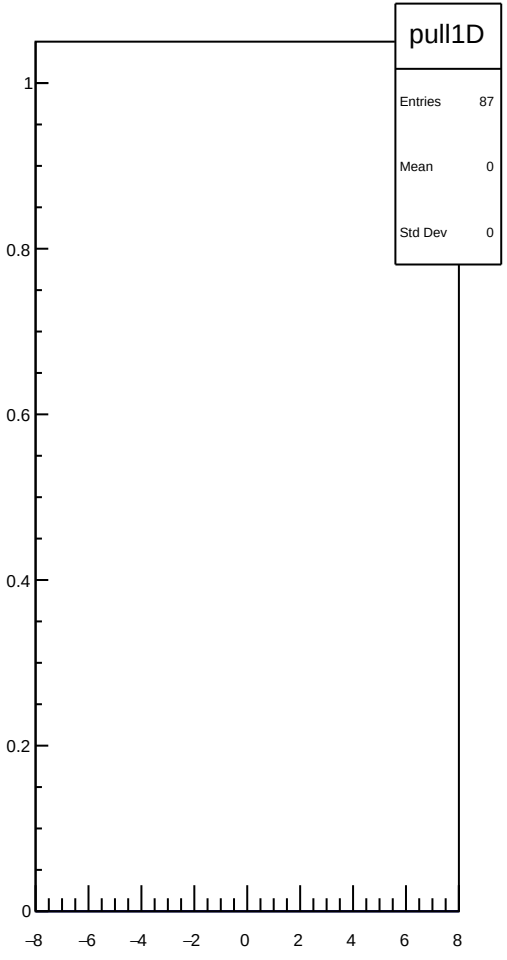

dit_sam2_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

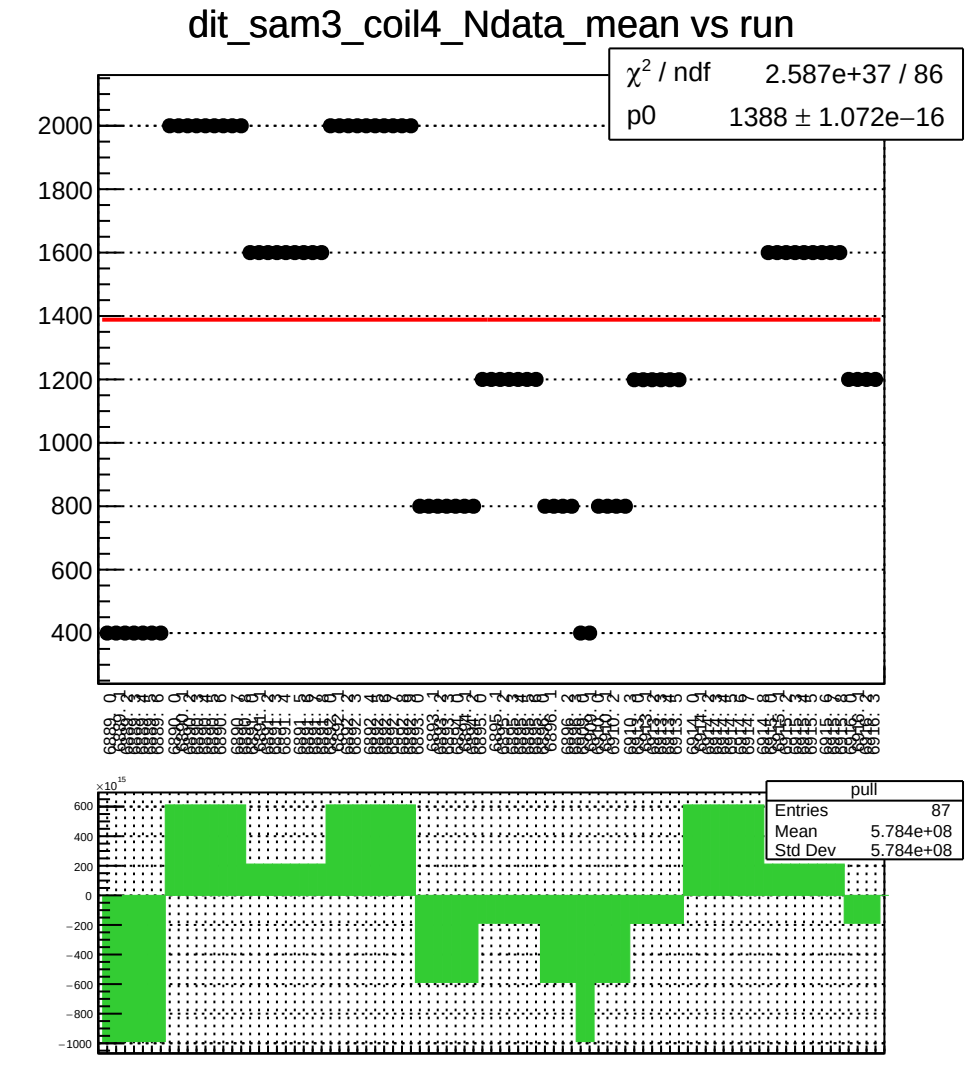

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

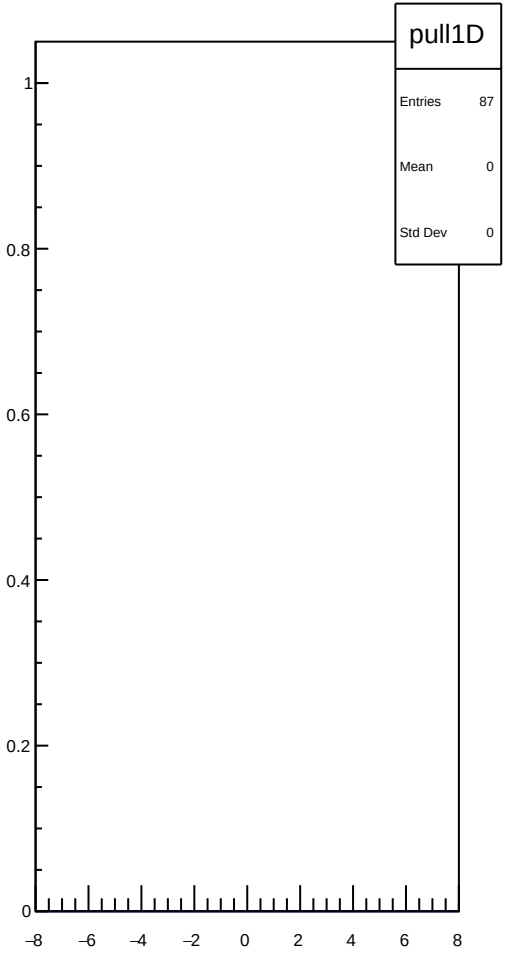

dit_sam3_coil4_mean vs run
χ² / ndf 2.458e+36 / 86
p0 4021± 1.072e−16
4400
4300
4200
4100
4000
3900
3800
3700
3600
3500
pull
Entries 87
Mean −1.593e+09
Std Dev 1.593e+09
×10¹⁵
300
200
100
0
−100
−200
−300
−400
−500

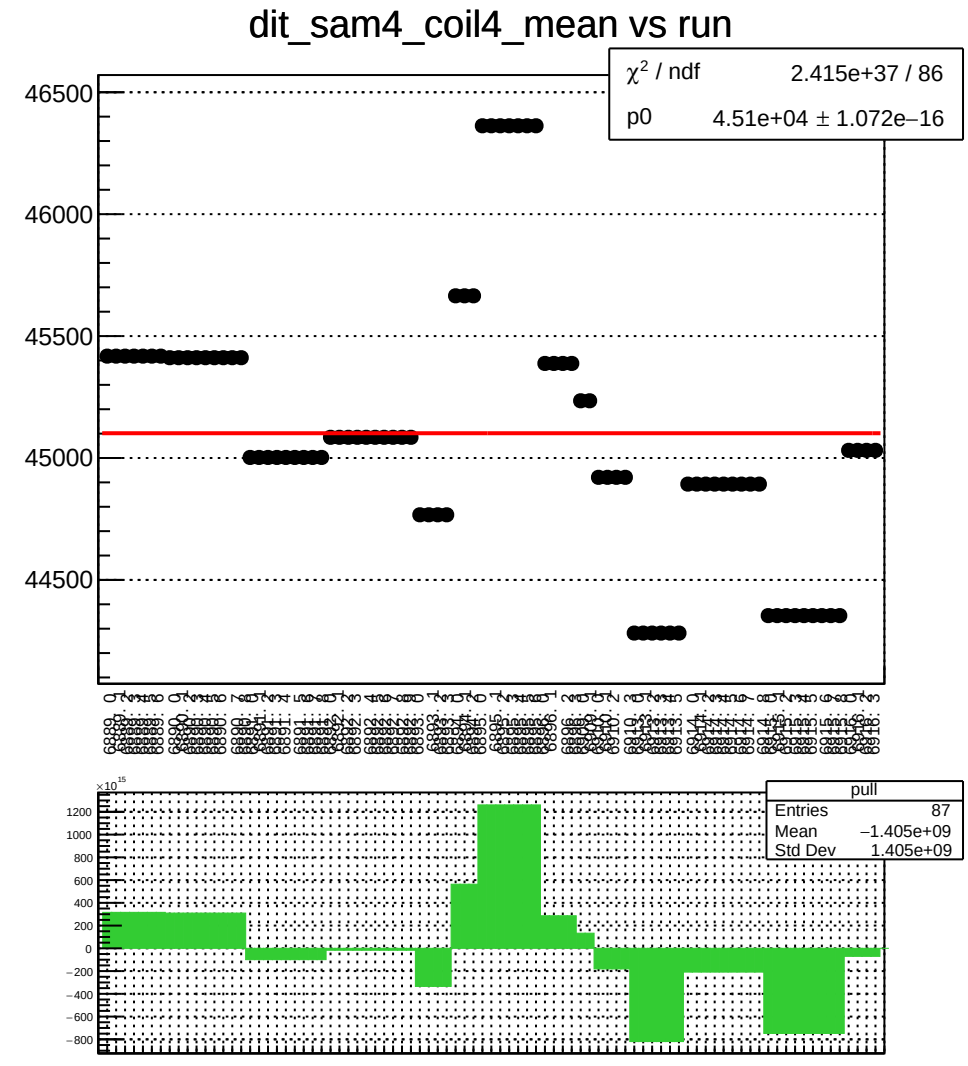

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

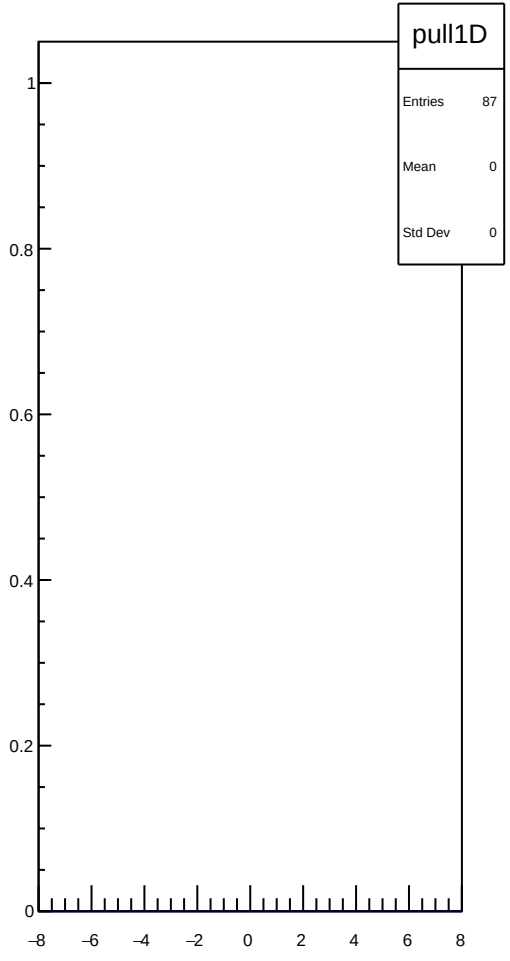

dit_sam3_coil4_err_mean vs run
χ² / ndf 1.644e+36 / 86
p0 418.8 ± 1.072e−16
900
800
700
600
500
400
300
200
pull
Entries 87
Mean −4.3e+08
Std Dev 4.3e+08
×10¹⁵
500
400
300
200
100
0
−100

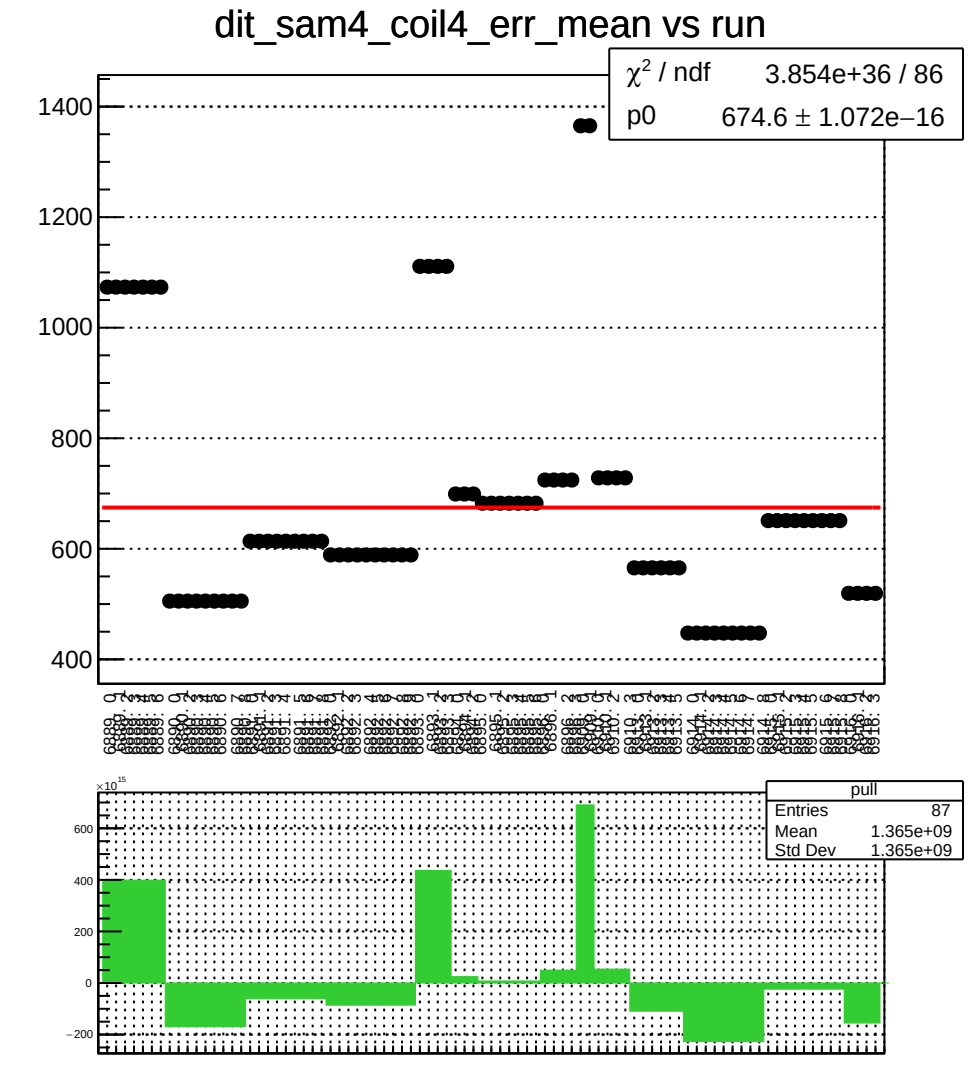

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

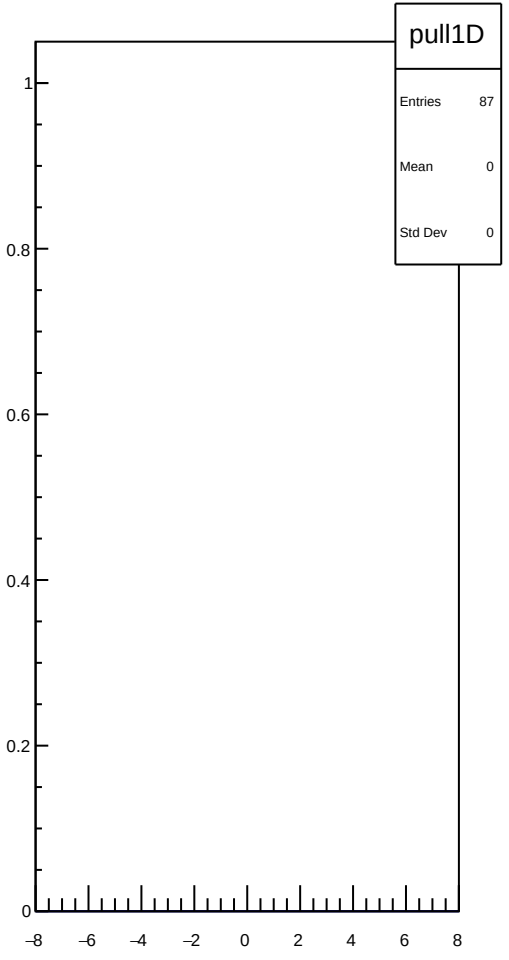

dit_sam3_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

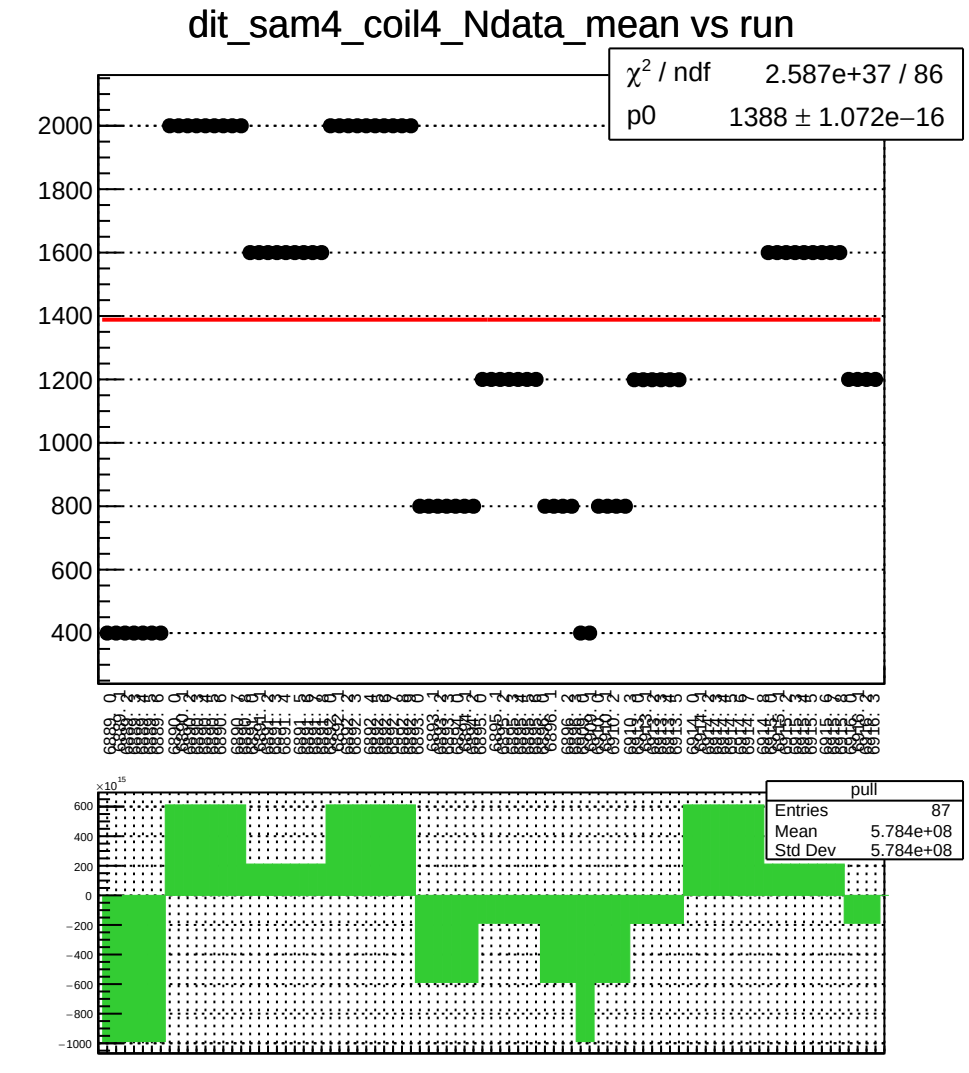

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

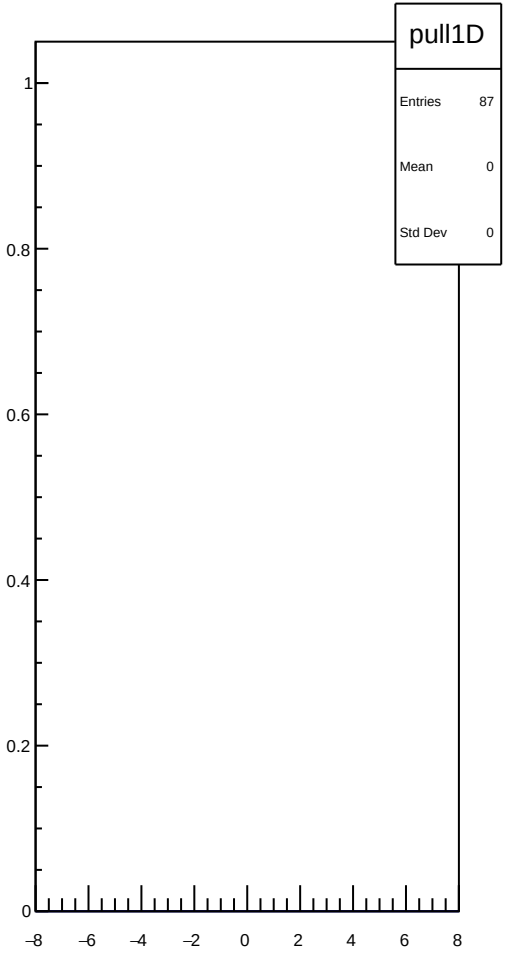

dit_sam4_coil4_mean vs run
χ² / ndf 2.415e+37 / 86
p0 4.51e+04 ± 1.072e−16
46500
46000
45500
45000
44500
×10¹⁵
1200
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.405e+09
Std Dev 1.405e+09

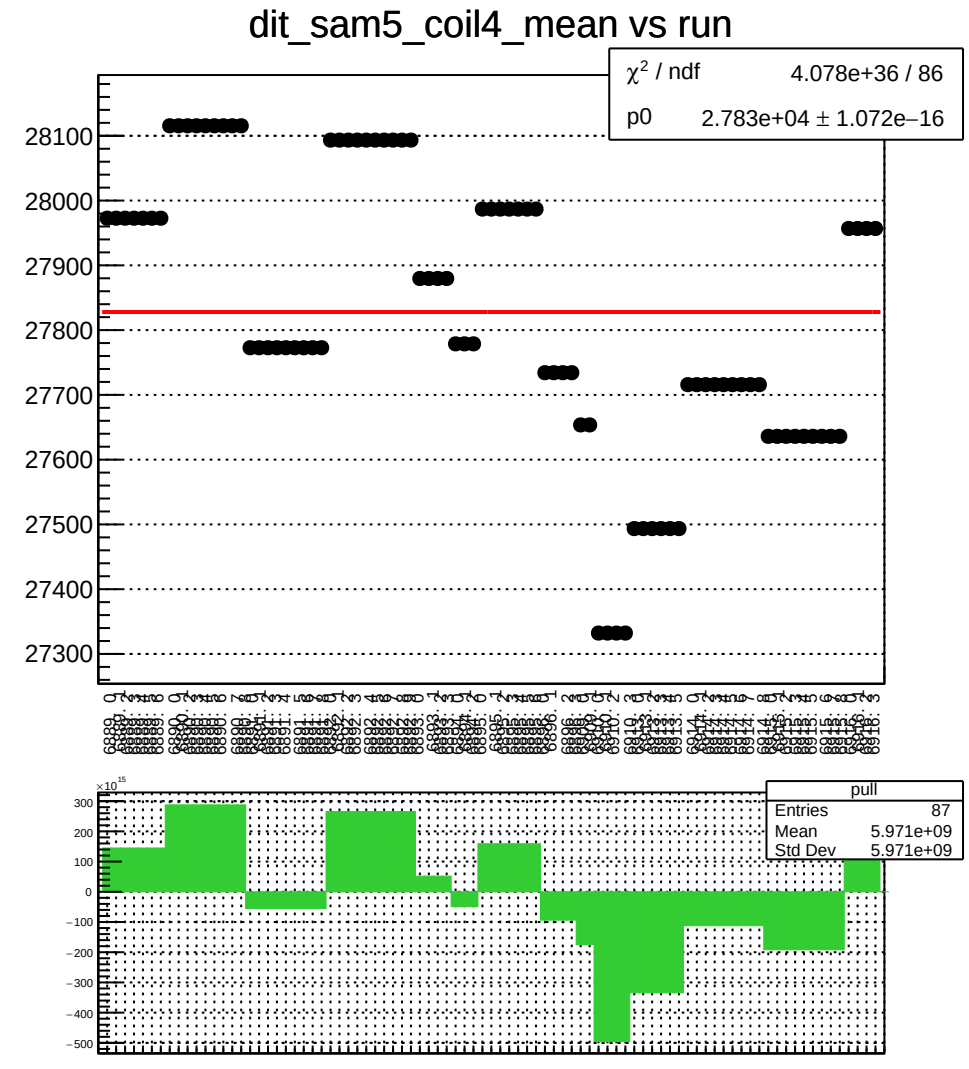

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

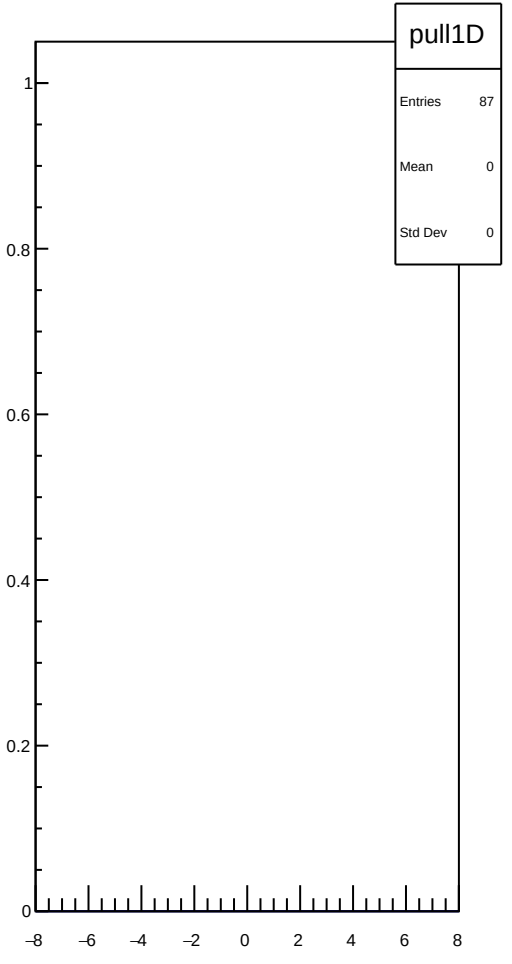

dit_sam4_coil4_err_mean vs run
χ² / ndf 3.854e+36 / 86
p0 674.6 ± 1.072e−16
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
pull
Entries 87
Mean 1.365e+09
Std Dev 1.365e+09

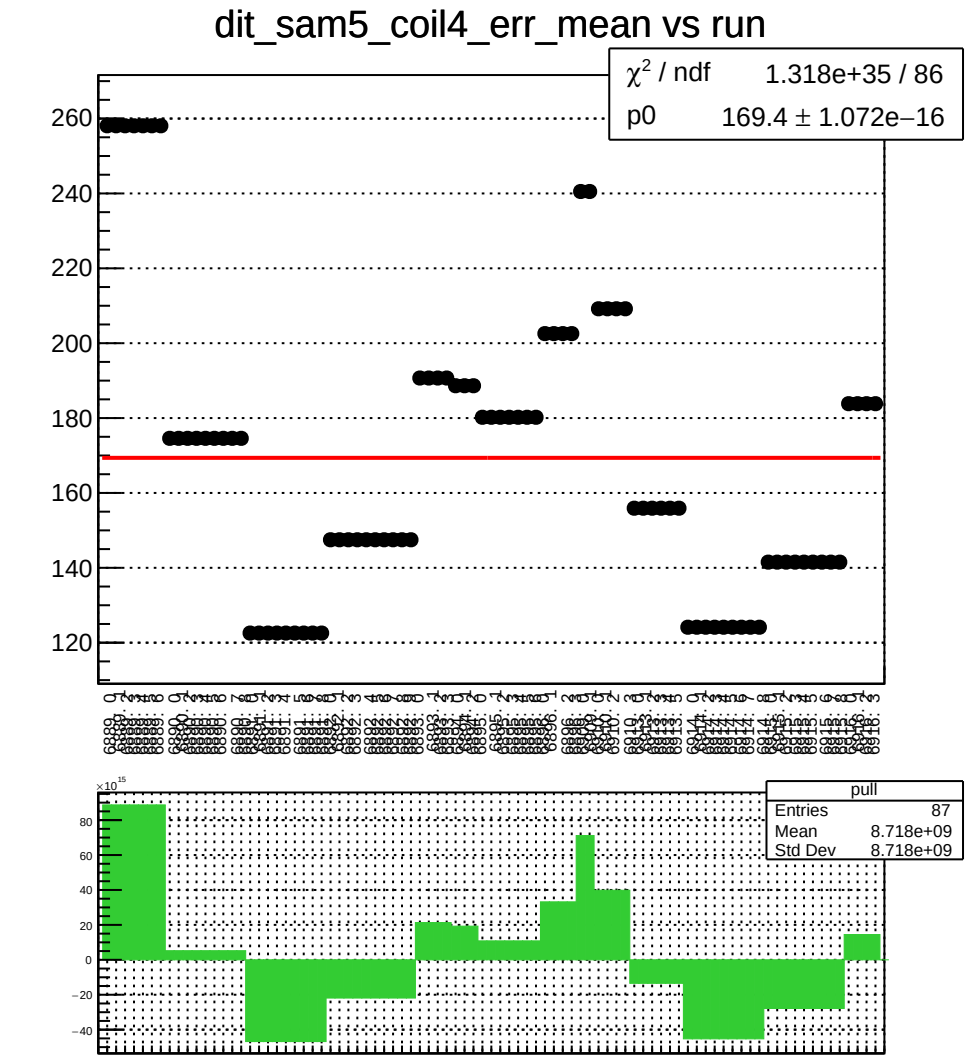

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

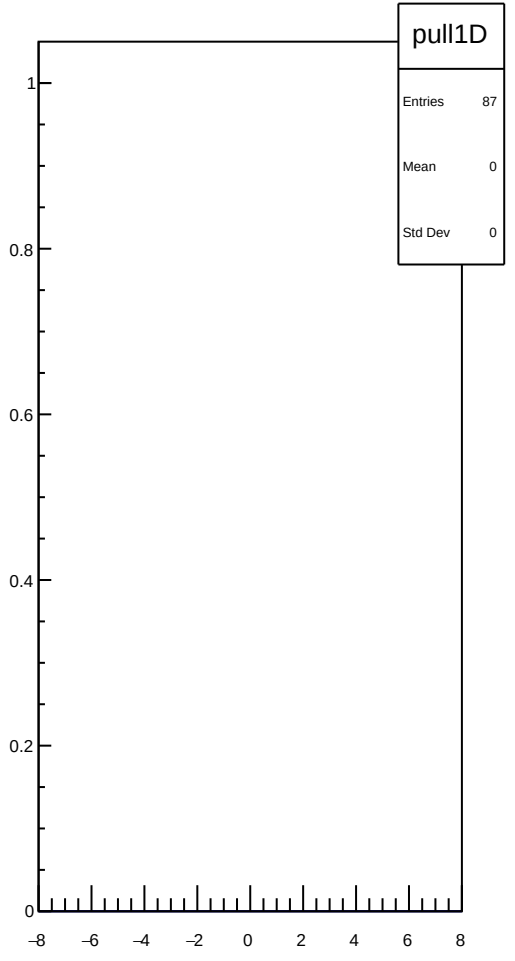

dit_sam4_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

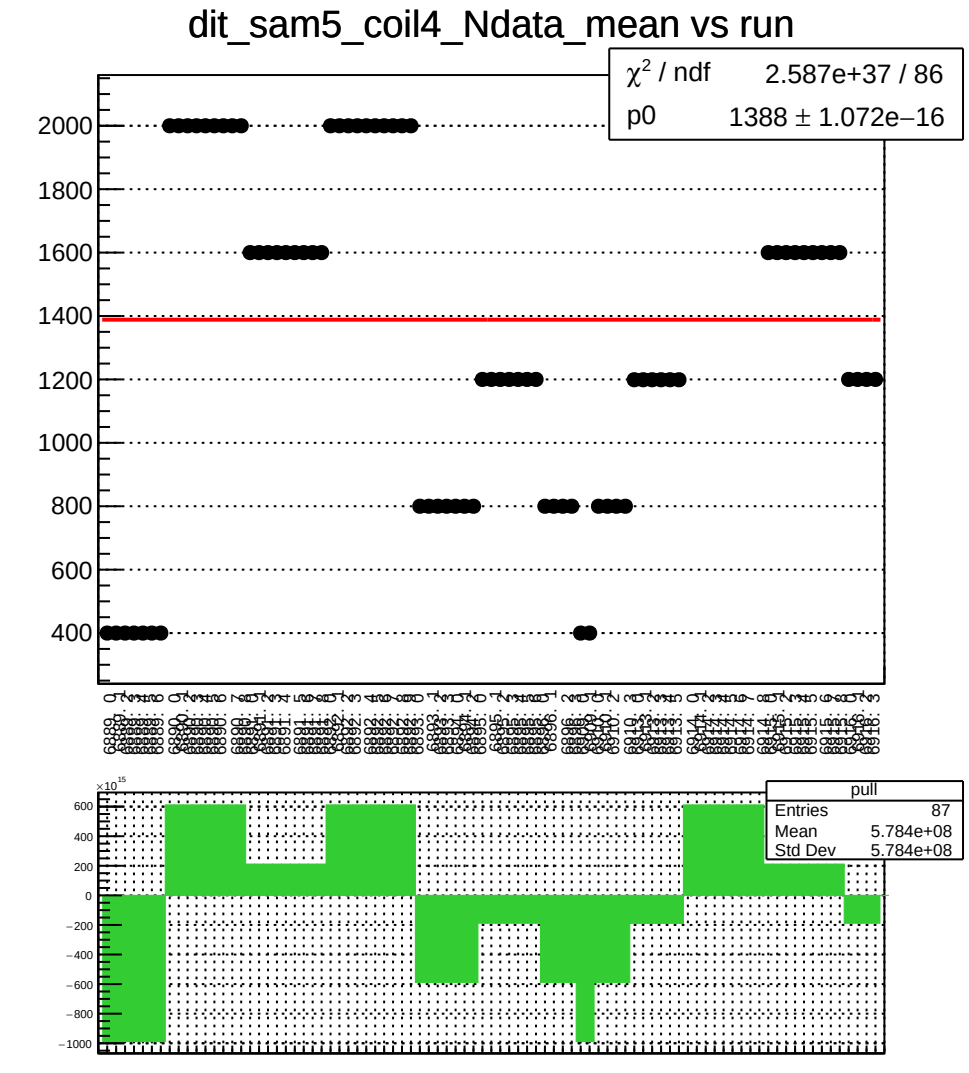

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

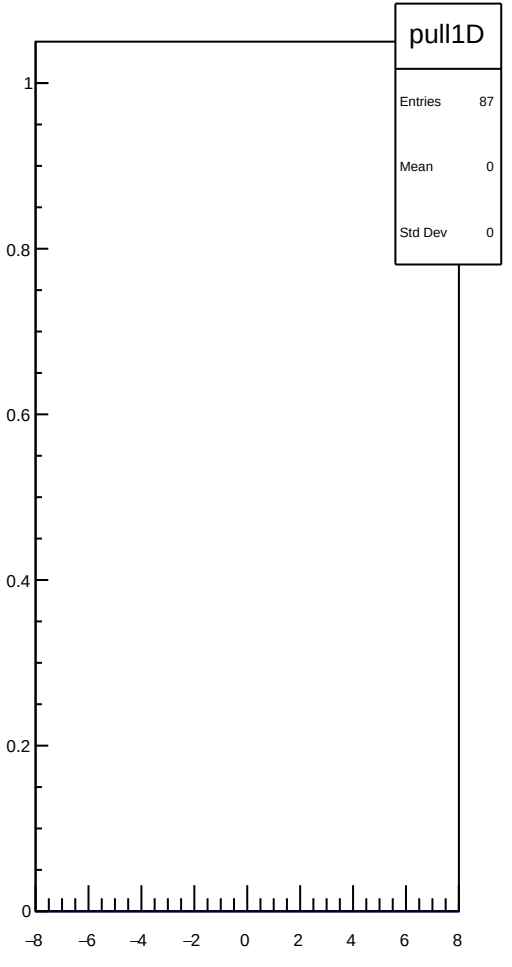

dit_sam5_coil4_mean vs run
χ² / ndf 4.078e+36 / 86
p0 2.783e+04 ± 1.072e−16
28100
28000
27900
27800
27700
27600
27500
27400
27300
×10¹⁵
300
200
100
0
−100
−200
−300
−400
−500
pull
Entries 87
Mean 5.971e+09
Std Dev 5.971e+09

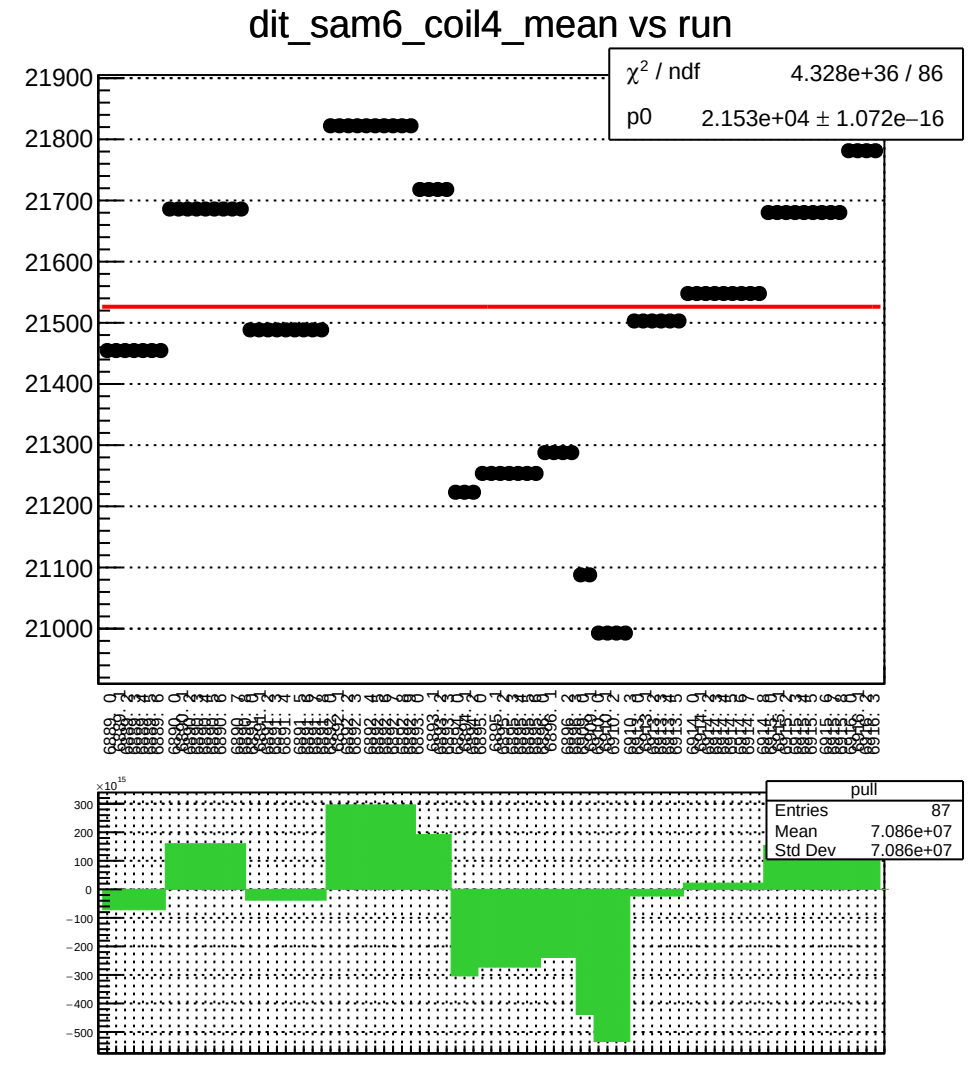

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

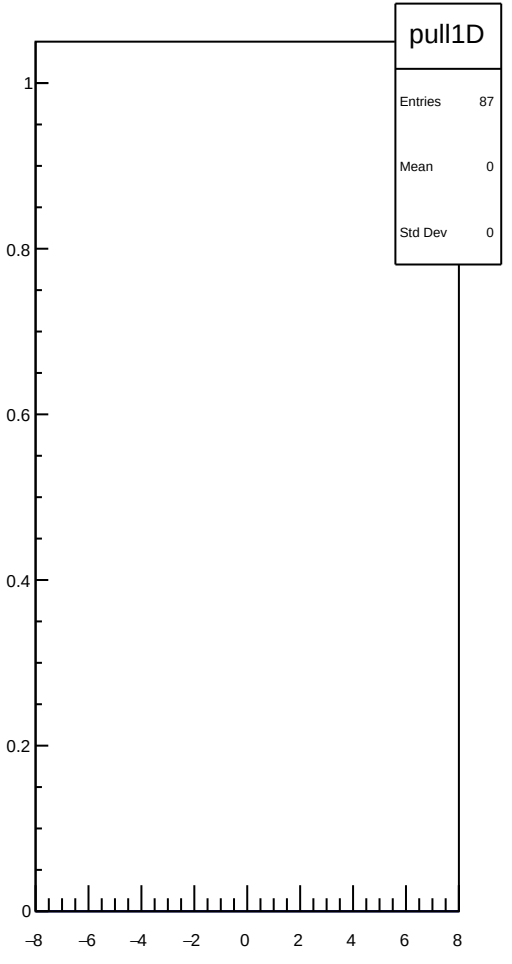

dit_sam5_coil4_err_mean vs run
χ² / ndf 1.318e+35 / 86
p0 169.4 ± 1.072e−16
260
240
220
200
180
160
140
120
pull
Entries 87
Mean 8.718e+09
Std Dev 8.718e+09
×10¹⁵
80
60
40
20
0
−20
−40

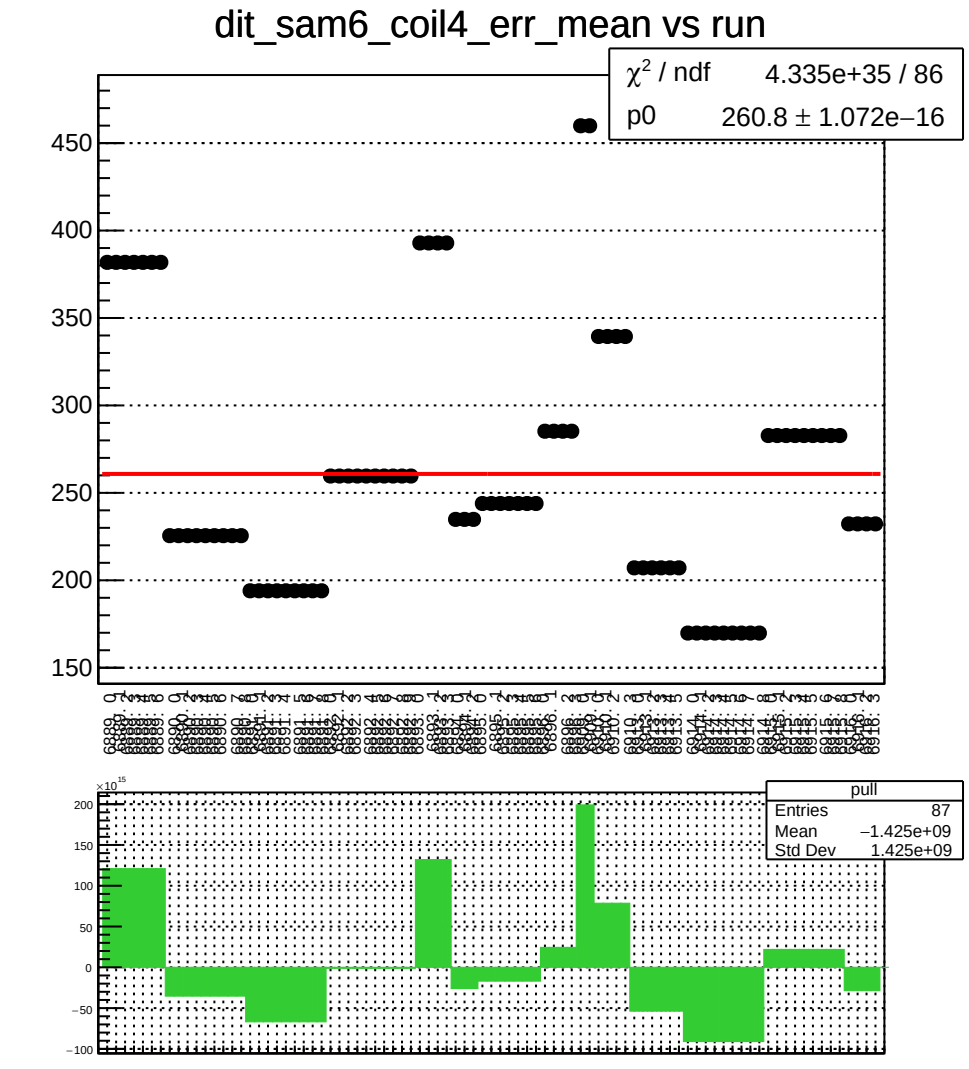

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

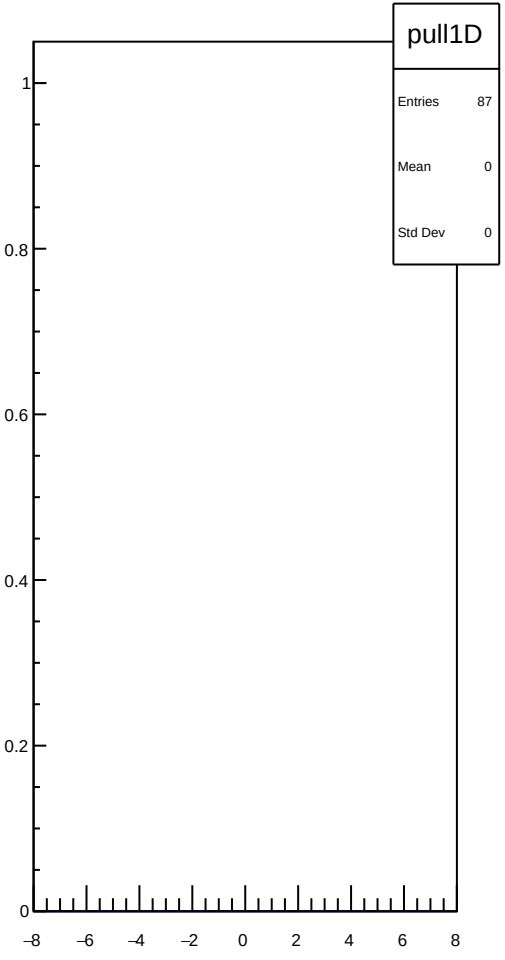

dit_sam5_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

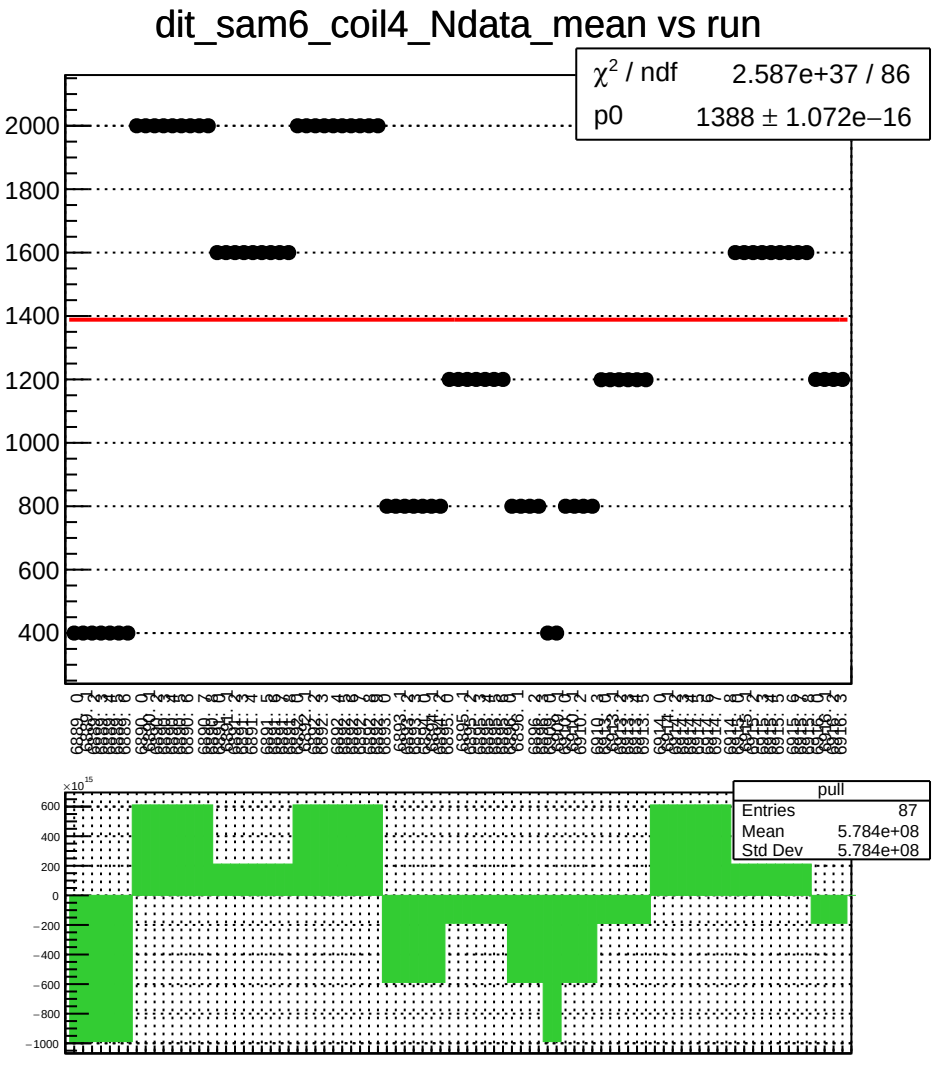

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

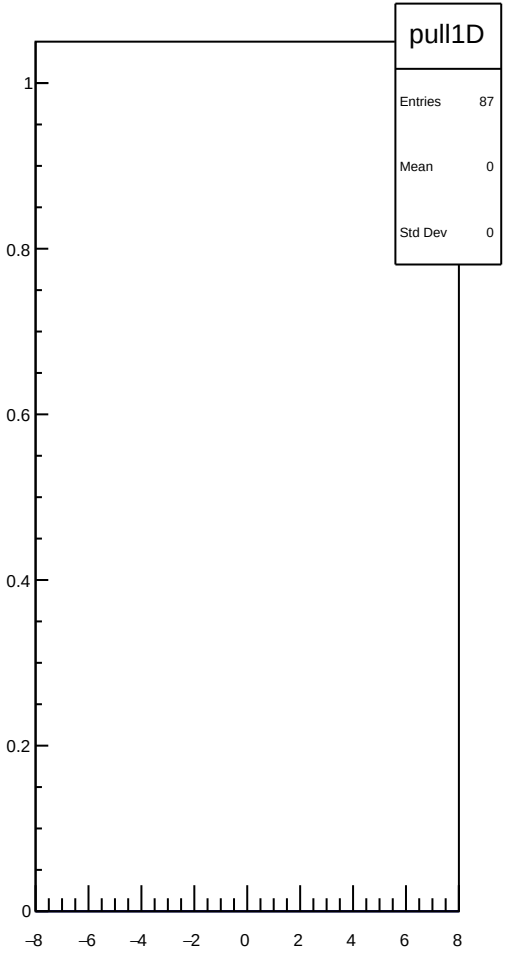

dit_sam6_coil4_mean vs run
χ² / ndf 4.328e+36 / 86
p0 2.153e+04 ± 1.072e−16
21900
21800
21700
21600
21500
21400
21300
21200
21100
21000
pull
Entries 87
Mean 7.086e+07
Std Dev 7.086e+07
×10¹⁵
300
200
100
0
−100
−200
−300
−400
−500

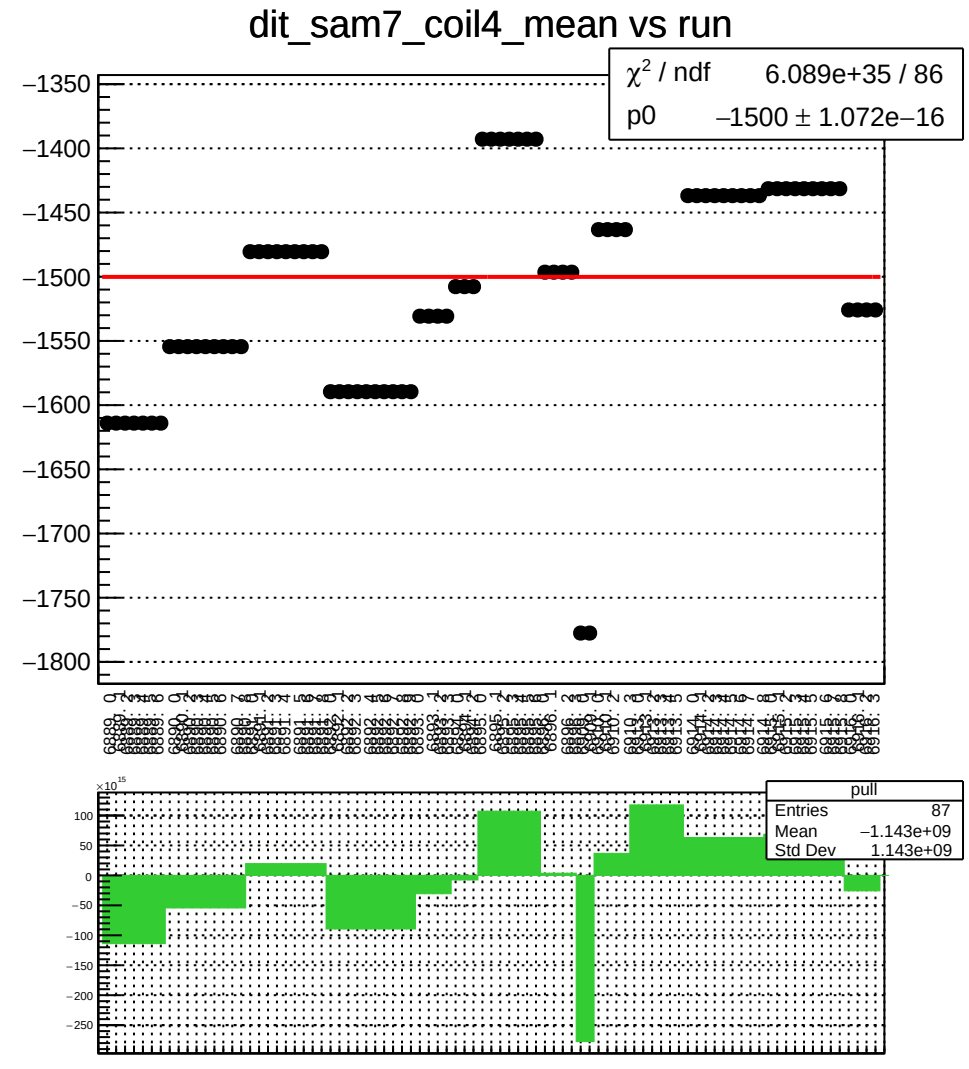

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

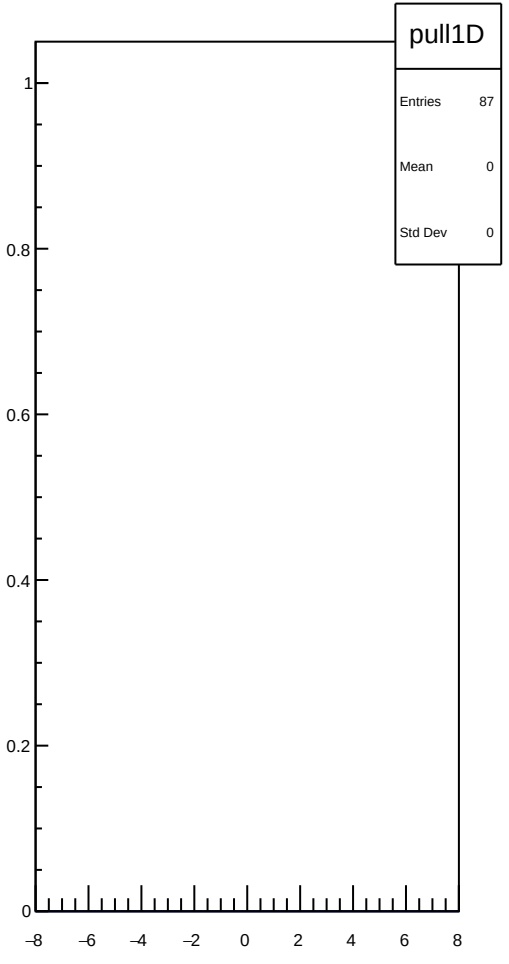

dit_sam6_coil4_err_mean vs run
χ² / ndf 4.335e+35 / 86
p0 260.8 ± 1.072e−16
pull
Entries 87
Mean −1.425e+09
Std Dev 1.425e+09

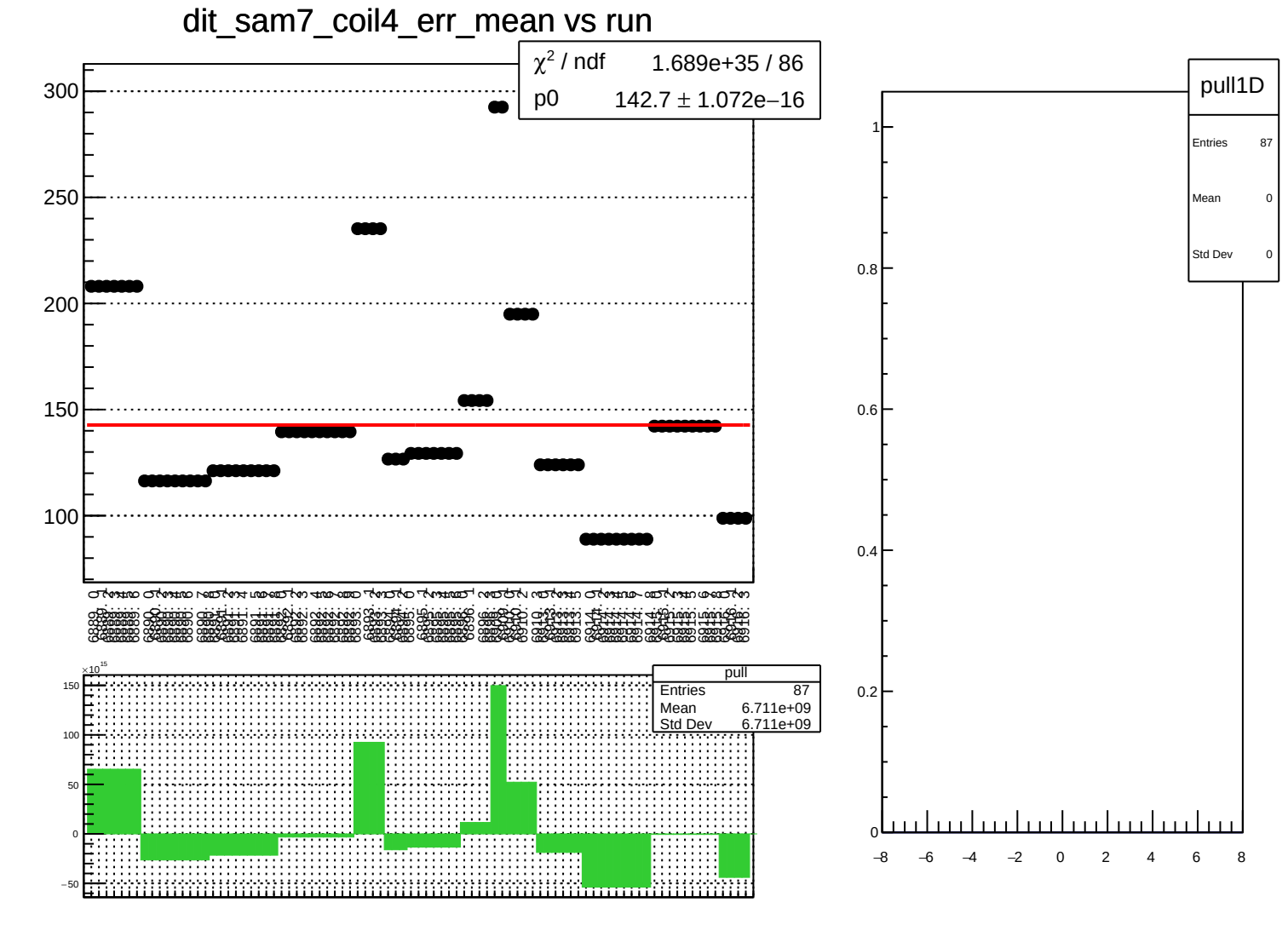

pull1D
Entries 87
Mean 0
Std Dev 0

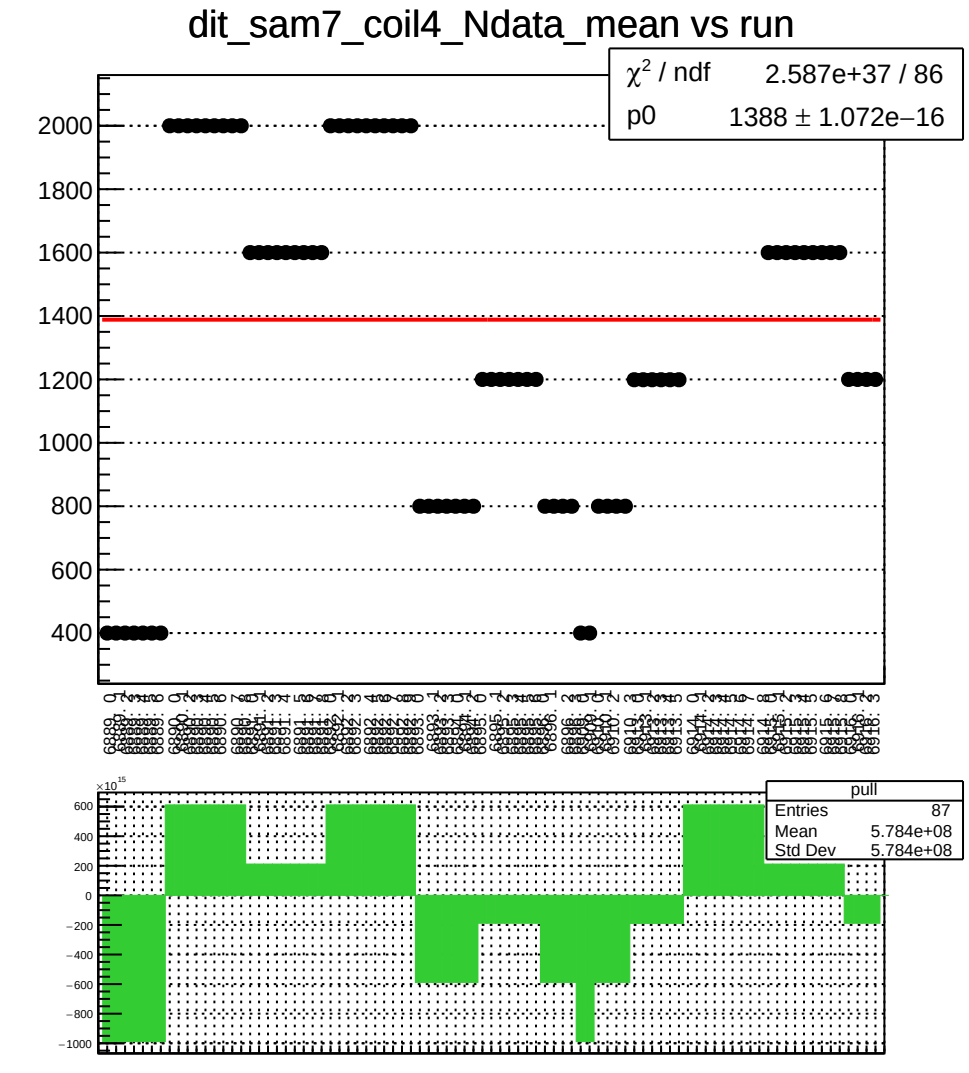

dit_sam6_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

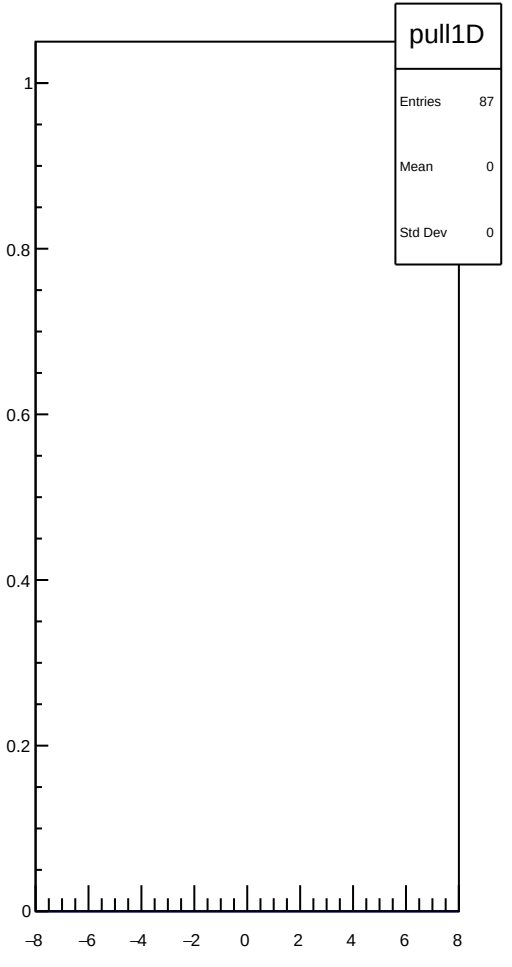

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

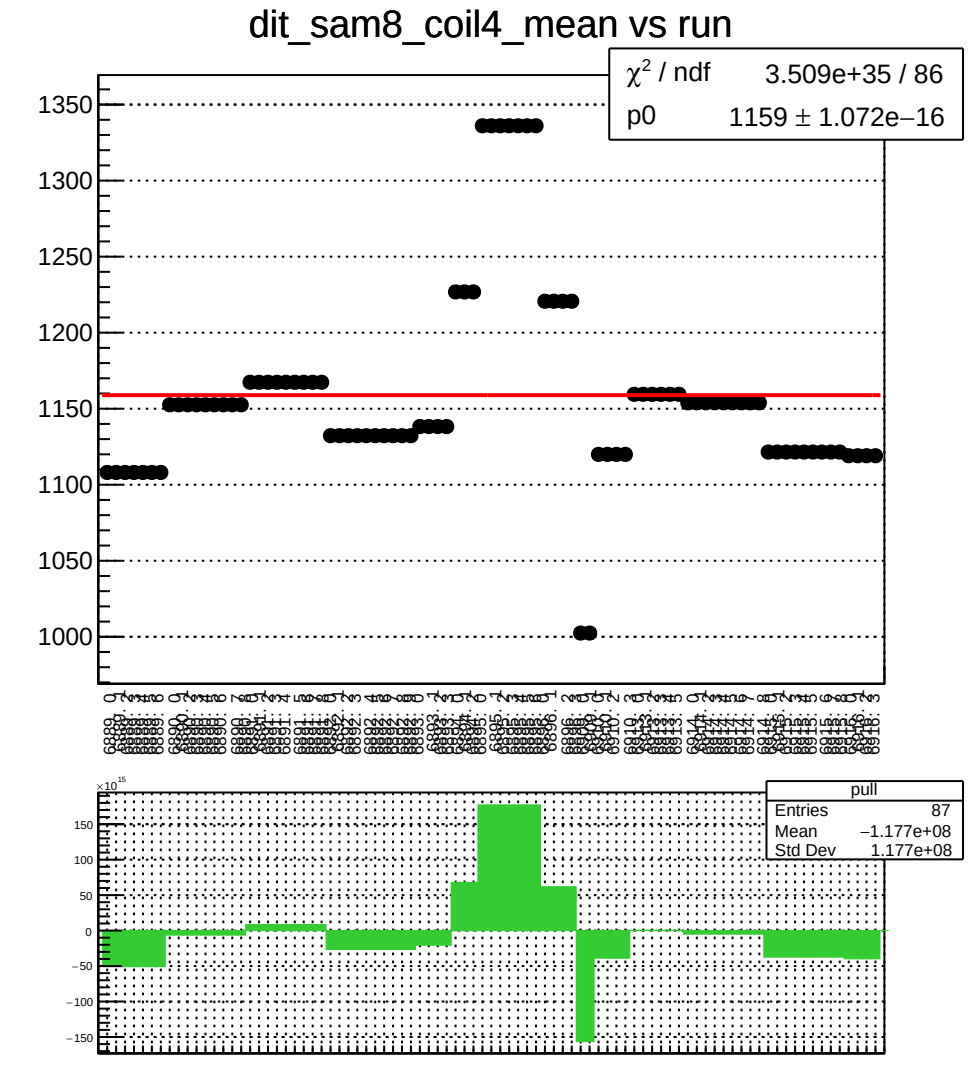

dit_sam7_coil4_mean vs run
χ² / ndf 6.089e+35 / 86
p0 −1500 ± 1.072e−16
−1350
−1400
−1450
−1500
−1550
−1600
−1650
−1700
−1750
−1800
×10¹⁵
100
50
0
−50
−100
−150
−200
−250
pull
Entries 87
Mean −1.143e+09
Std Dev 1.143e+09

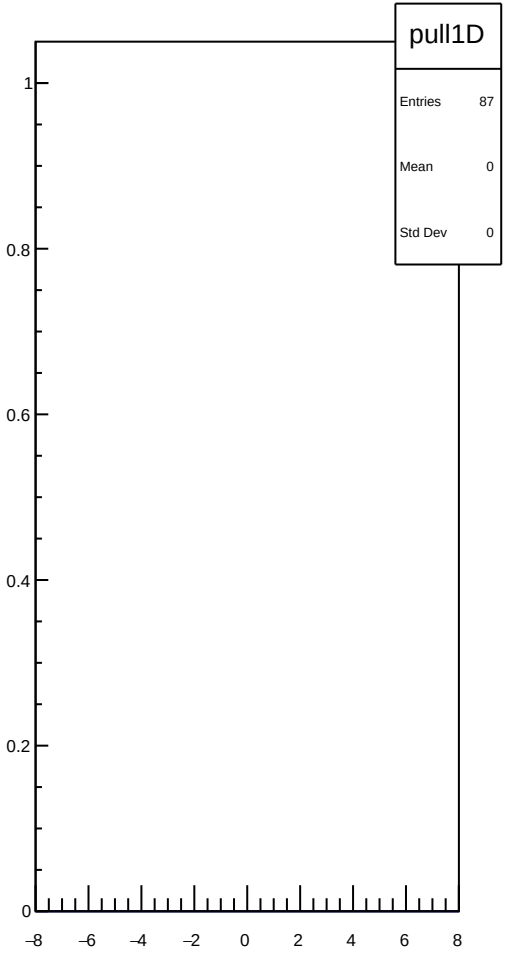

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

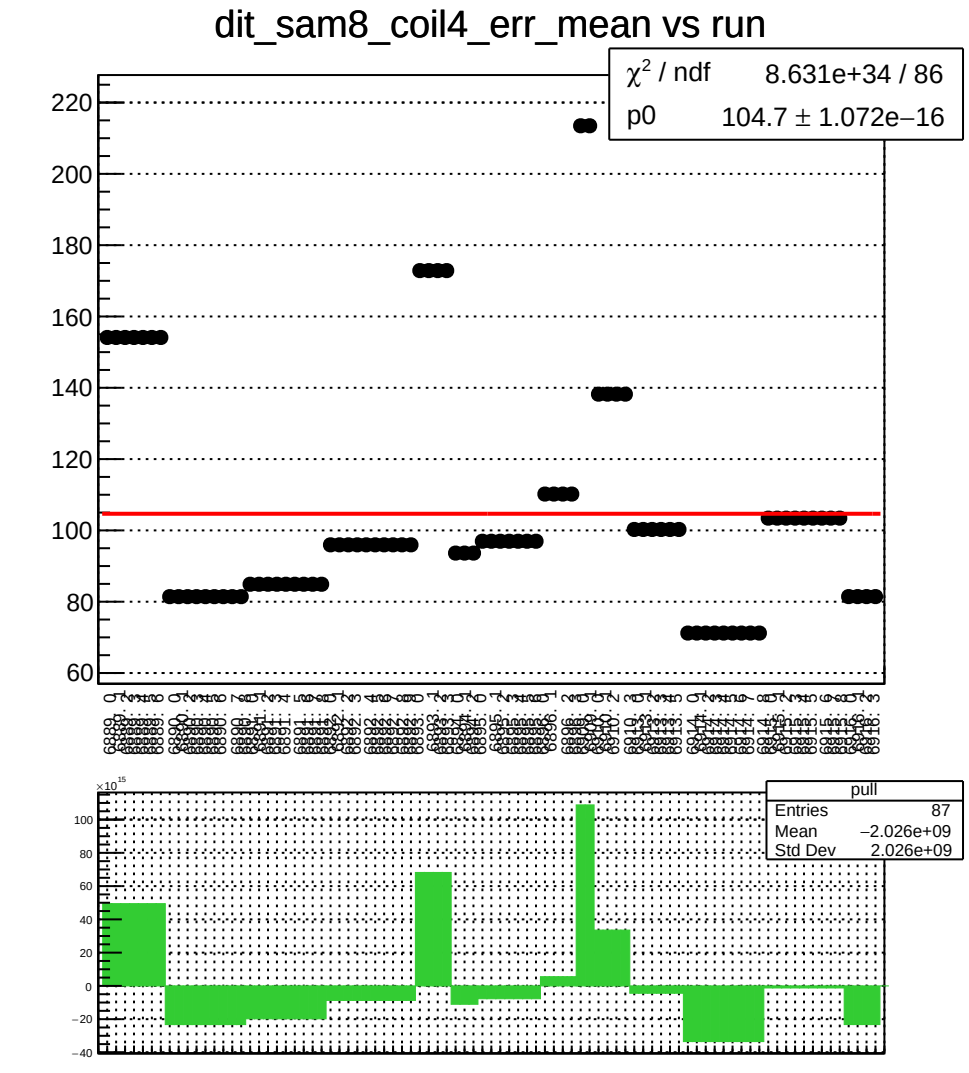

dit_sam7_coil4_err_mean vs run
χ² / ndf 1.689e+35 / 86
p0 142.7 ± 1.072e−16
300
250
200
150
100
pull
Entries 87
Mean 6.711e+09
Std Dev 6.711e+09
×10¹⁵
150
100
50
0
−50
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

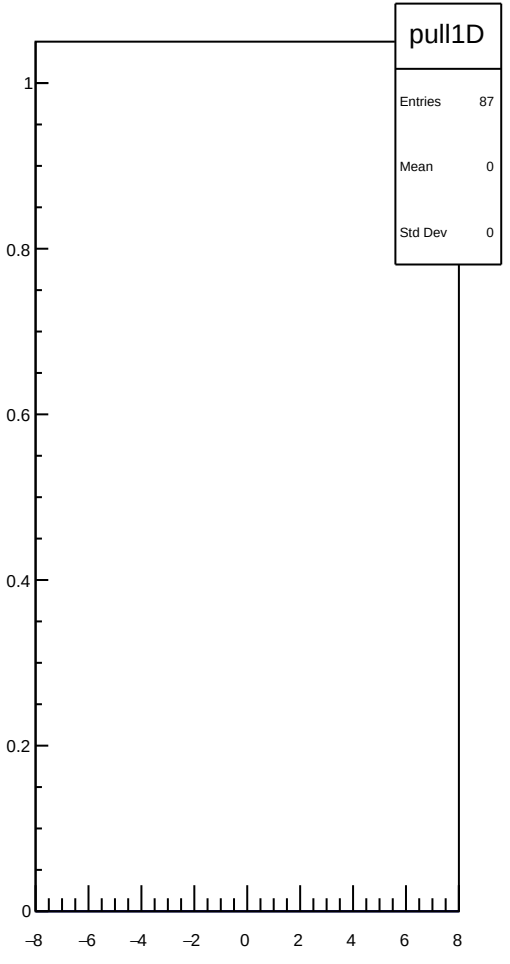

dit_sam7_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

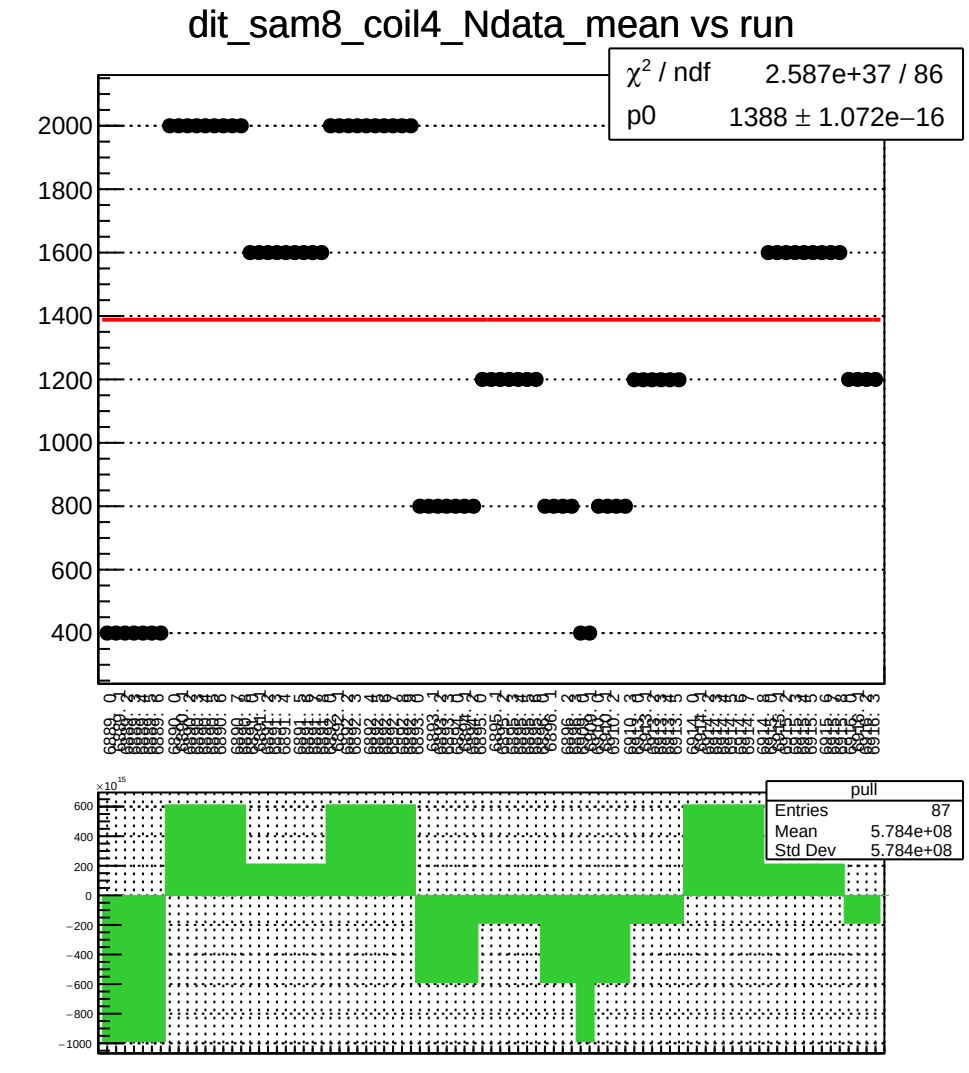

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

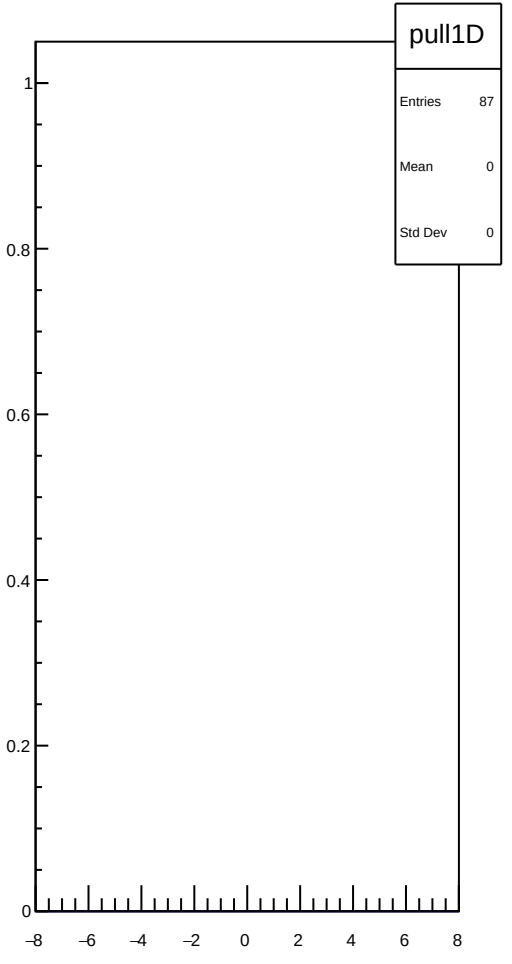

dit_sam8_coil4_mean vs run
χ² / ndf 3.509e+35 / 86
p0 1159 ± 1.072e−16
1350
1300
1250
1200
1150
1100
1050
1000
×10¹⁵
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean −1.177e+08
Std Dev 1.177e+08

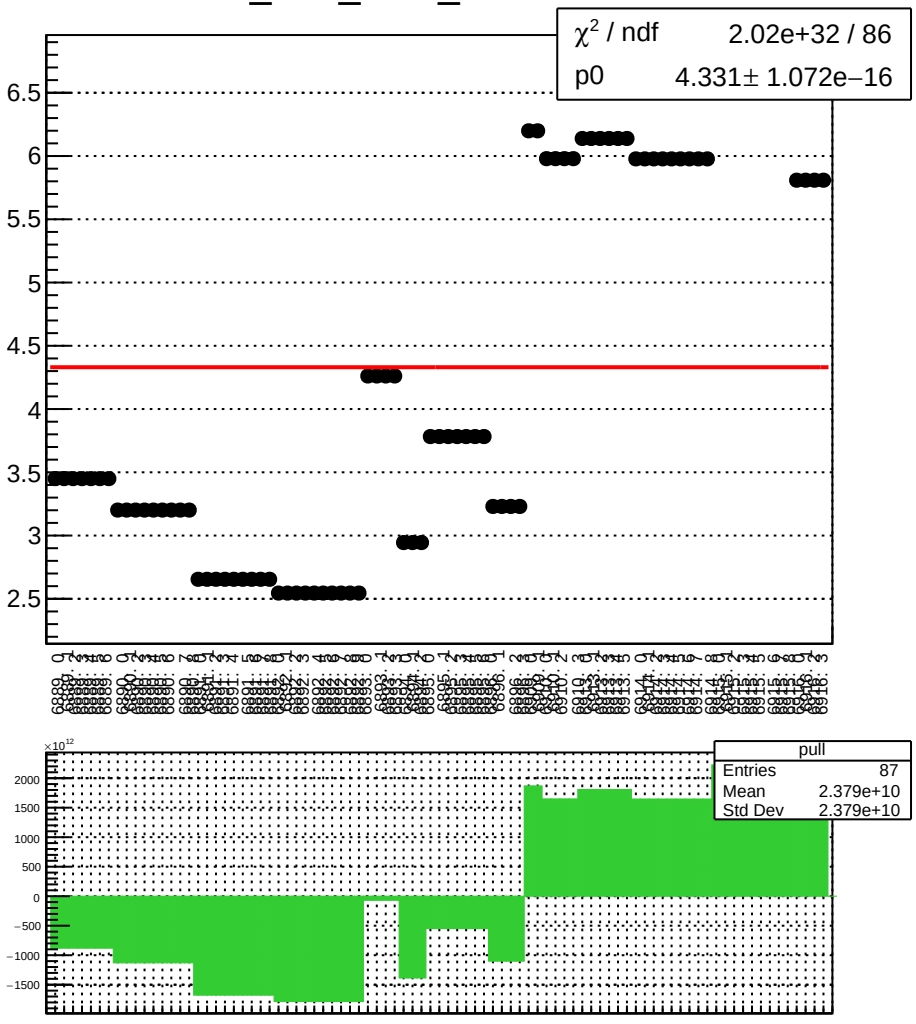

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

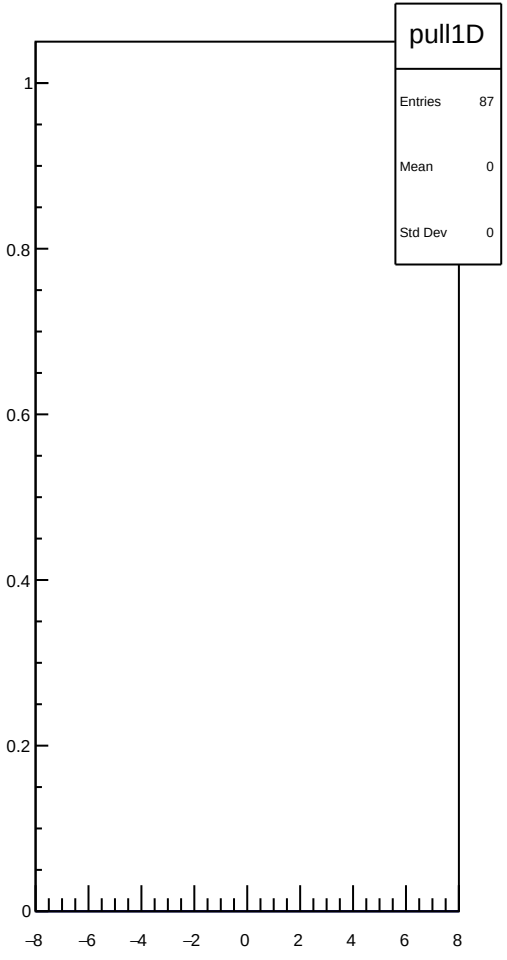

dit_sam8_coil4_err_mean vs run
χ² / ndf 8.631e+34 / 86
p0 104.7 ± 1.072e−16
pull
Entries 87
Mean −2.026e+09
Std Dev 2.026e+09

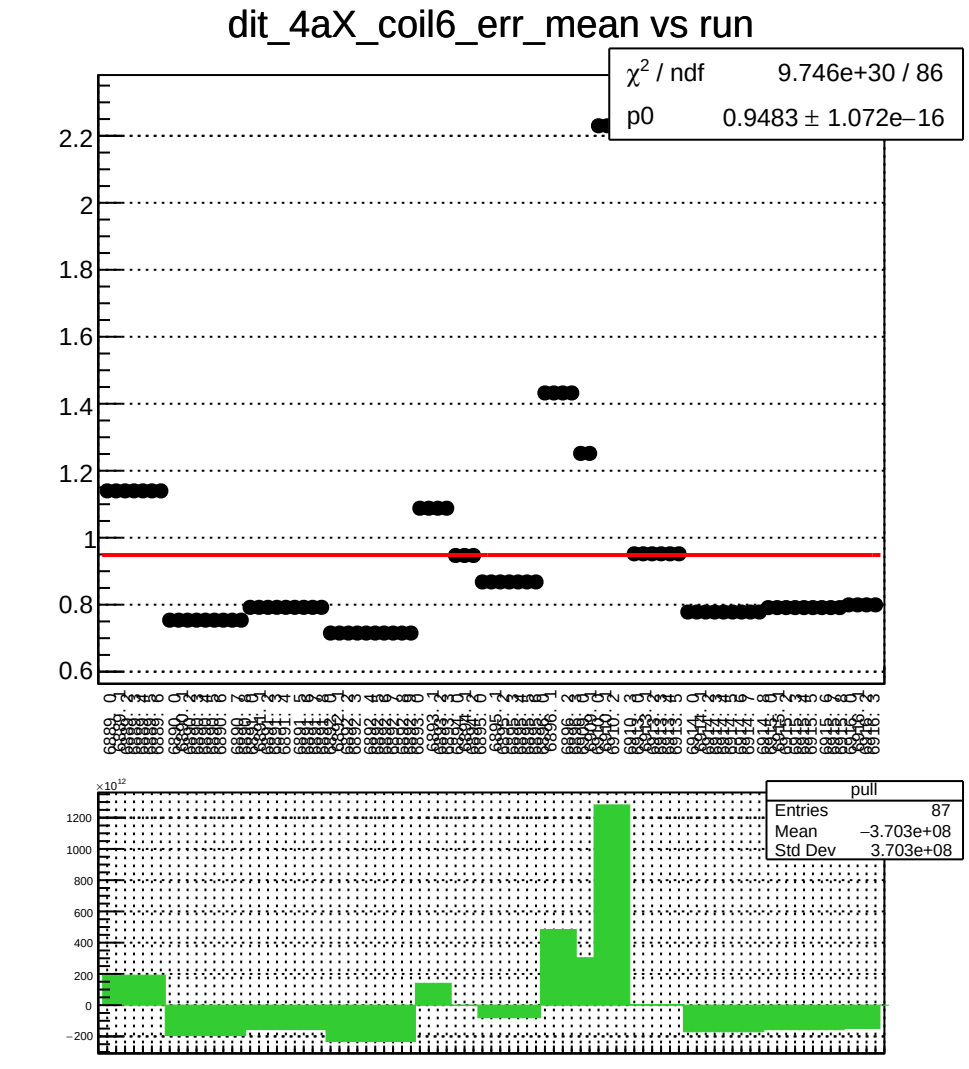

pull1D
Entries 87
Mean 0
Std Dev 0

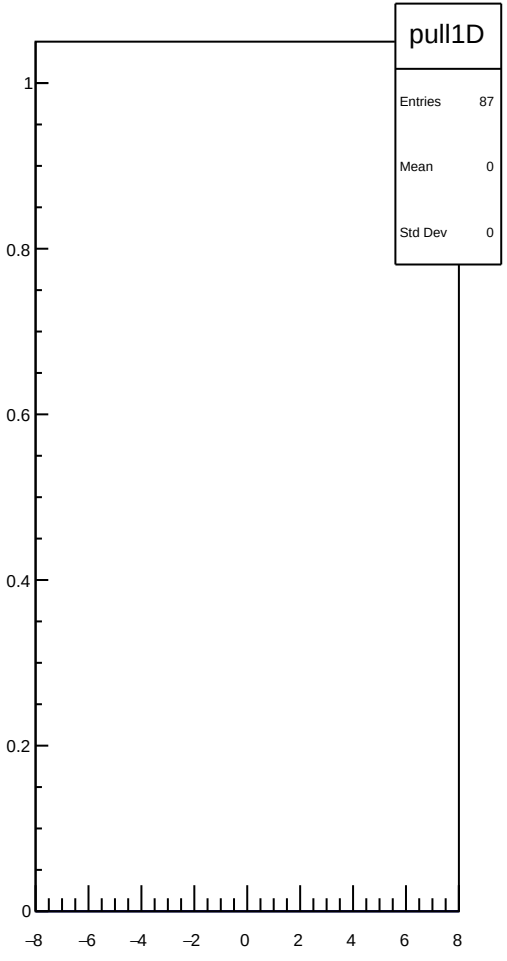

dit_sam8_coil4_Ndata_mean vs run
χ² / ndf 2.587e+37 / 86
p0 1388 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean 5.784e+08
Std Dev 5.784e+08
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

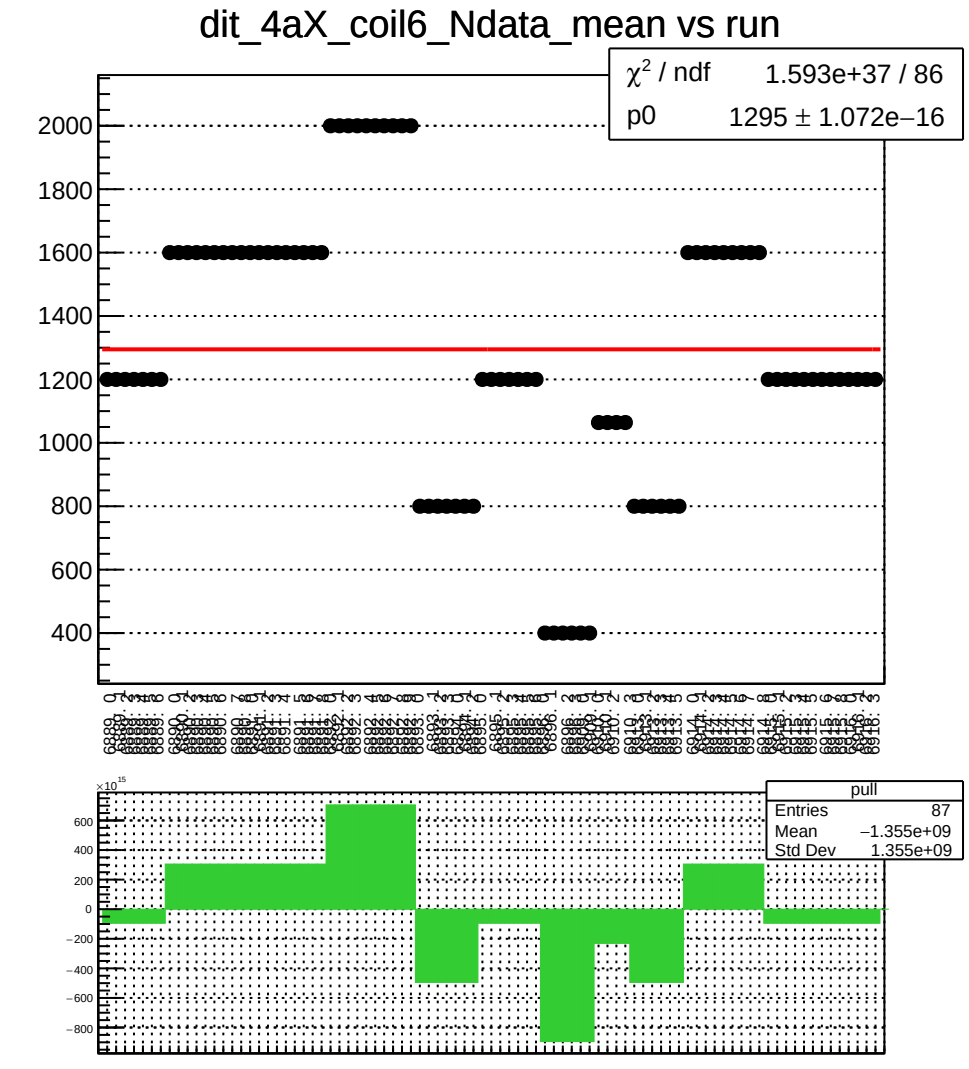

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

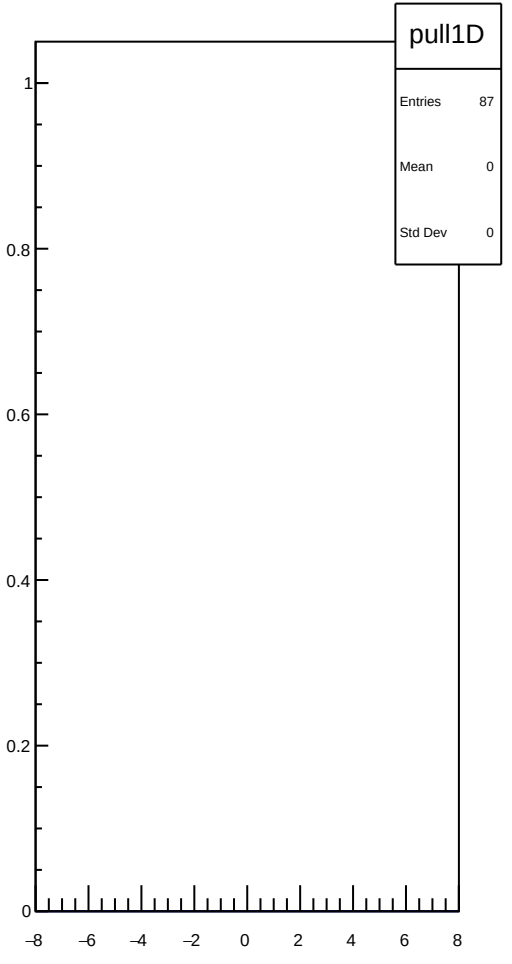

dit_4aX_coil6_mean vs run
χ² / ndf 2.02e+32 / 86
p0 4.331± 1.072e−16
pull
Entries 87
Mean 2.379e+10
Std Dev 2.379e+10

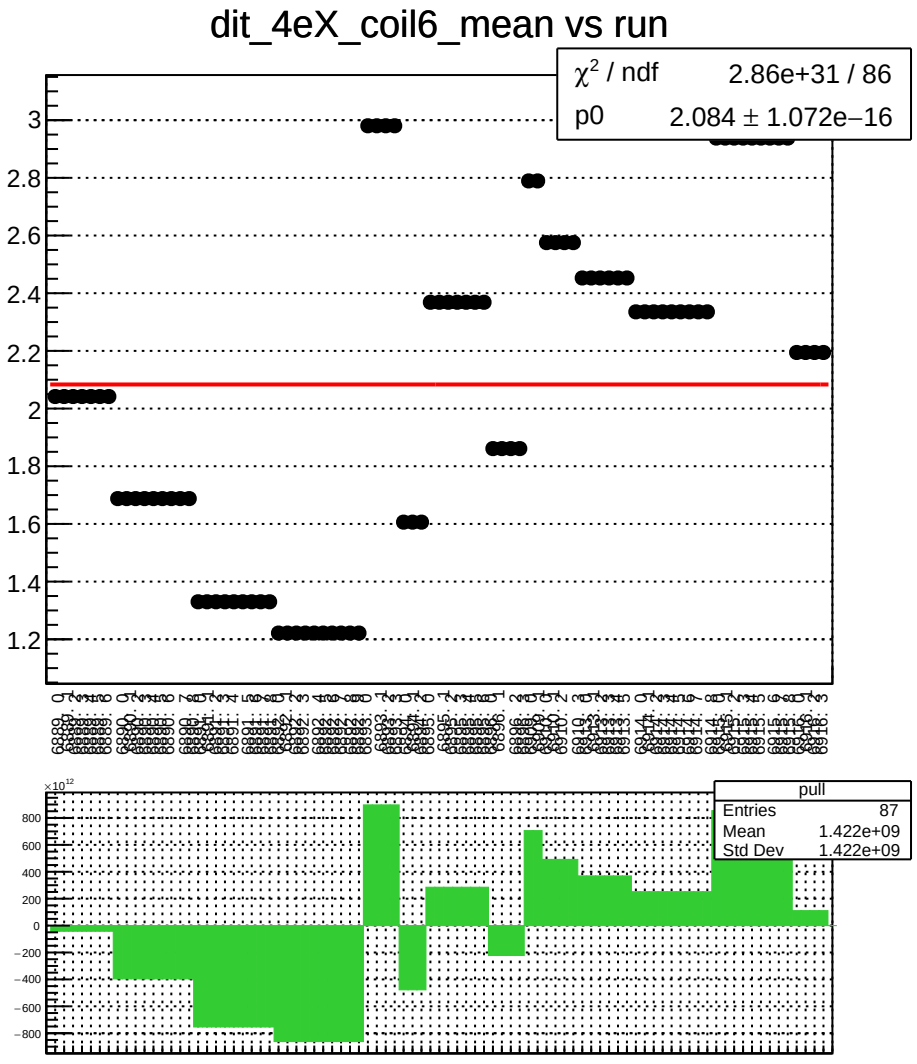

pull1D
Entries 87
Mean 0
Std Dev 0

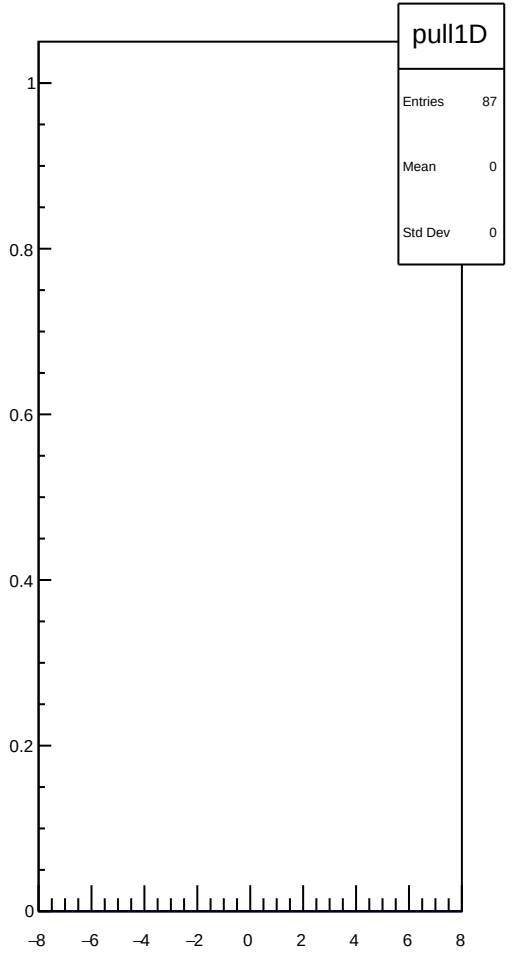

dit_4aX_coil6_err_mean vs run
χ² / ndf 9.746e+30 / 86
p0 0.9483 ± 1.072e−16
pull
Entries 87
Mean −3.703e+08
Std Dev 3.703e+08

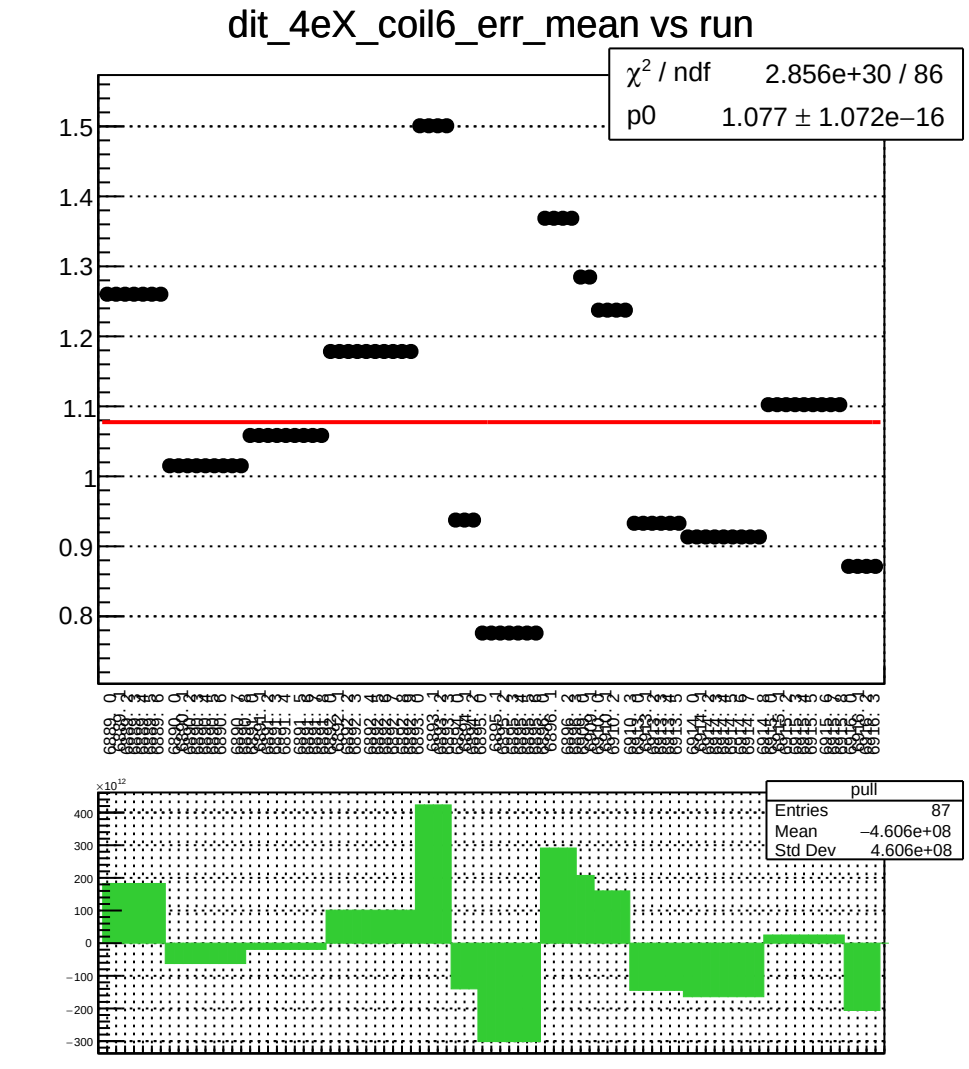

pull1D
Entries 87
Mean 0
Std Dev 0

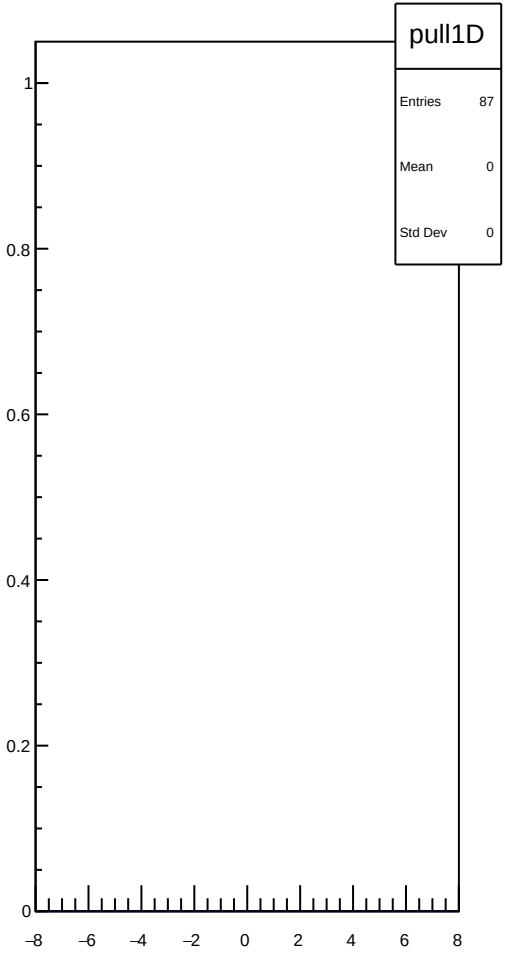

dit_4aX_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800

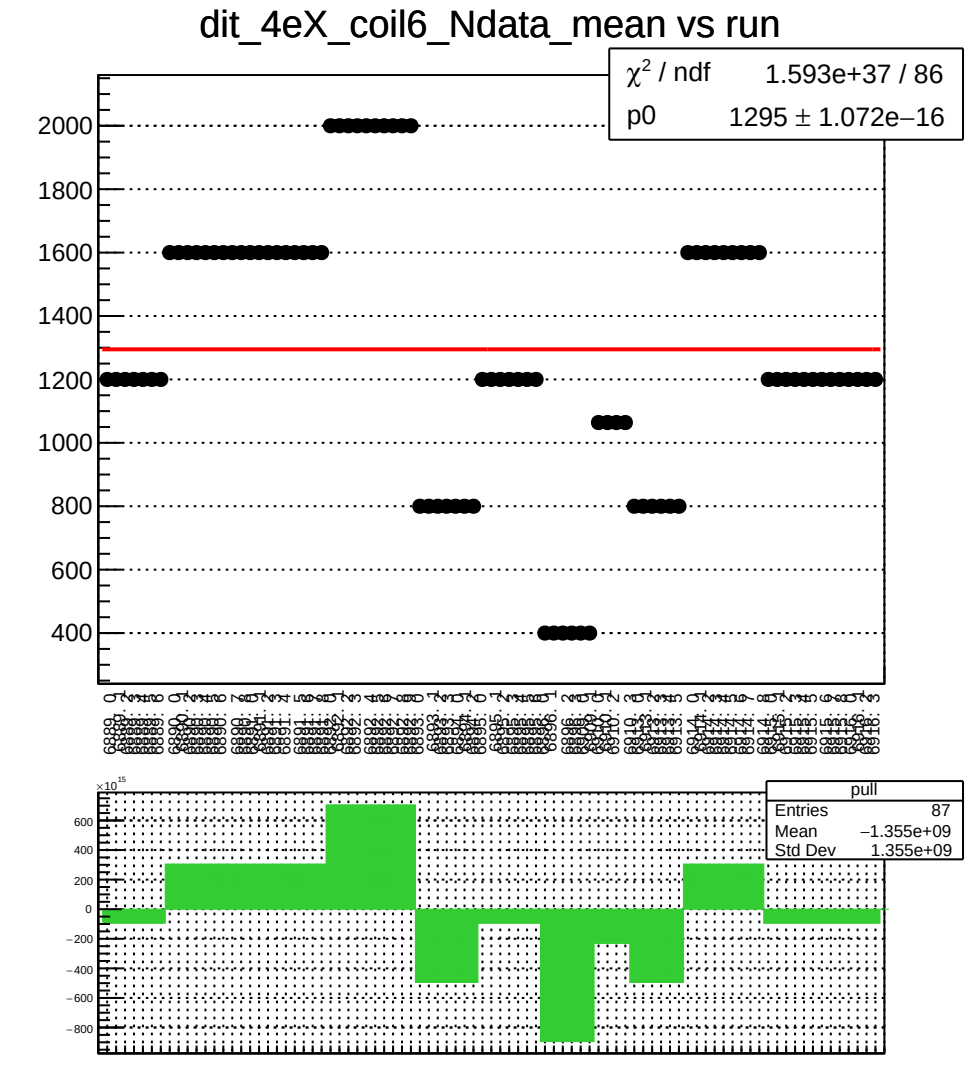

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

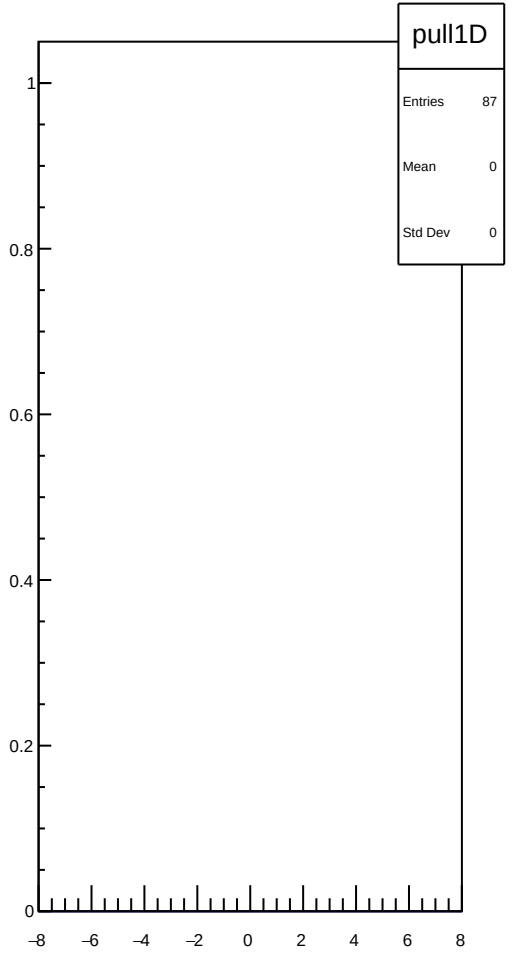

dit_4eX_coil6_mean vs run
χ² / ndf 2.86e+31 / 86
p0 2.084 ± 1.072e−16
pull
Entries 87
Mean 1.422e+09
Std Dev 1.422e+09

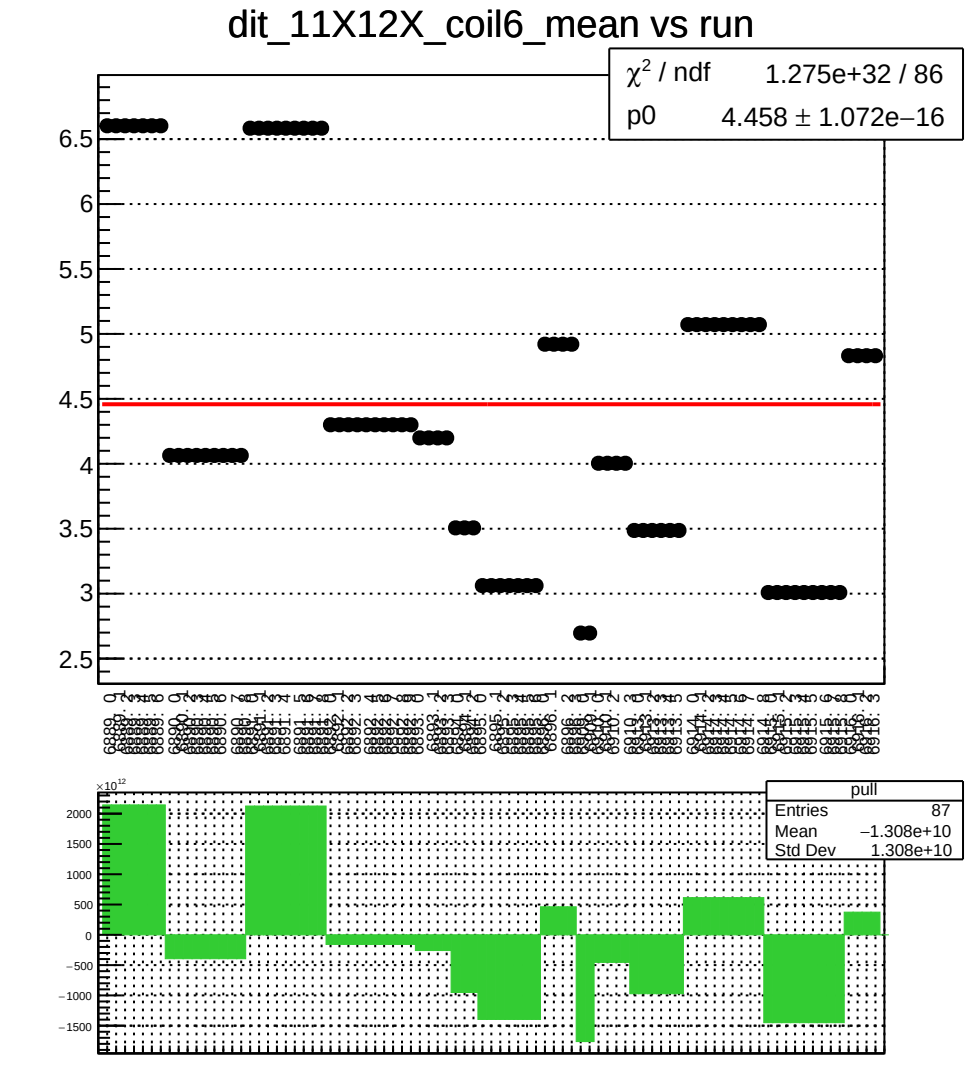

pull1D
Entries 87
Mean 0
Std Dev 0

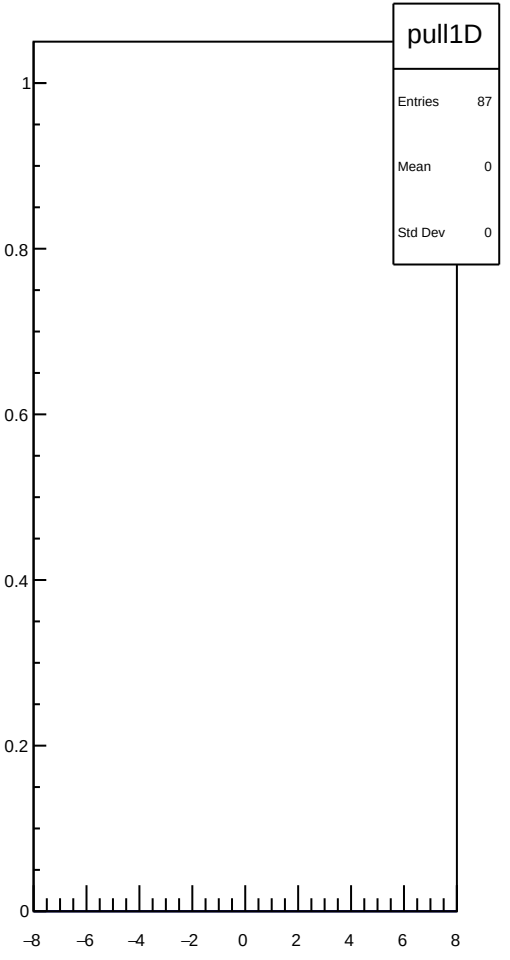

dit_4eX_coil6_err_mean vs run
χ² / ndf 2.856e+30 / 86
p0 1.077 ± 1.072e−16
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
pull
Entries 87
Mean −4.606e+08
Std Dev 4.606e+08
×10¹²
400
300
200
100
0
−100
−200
−300

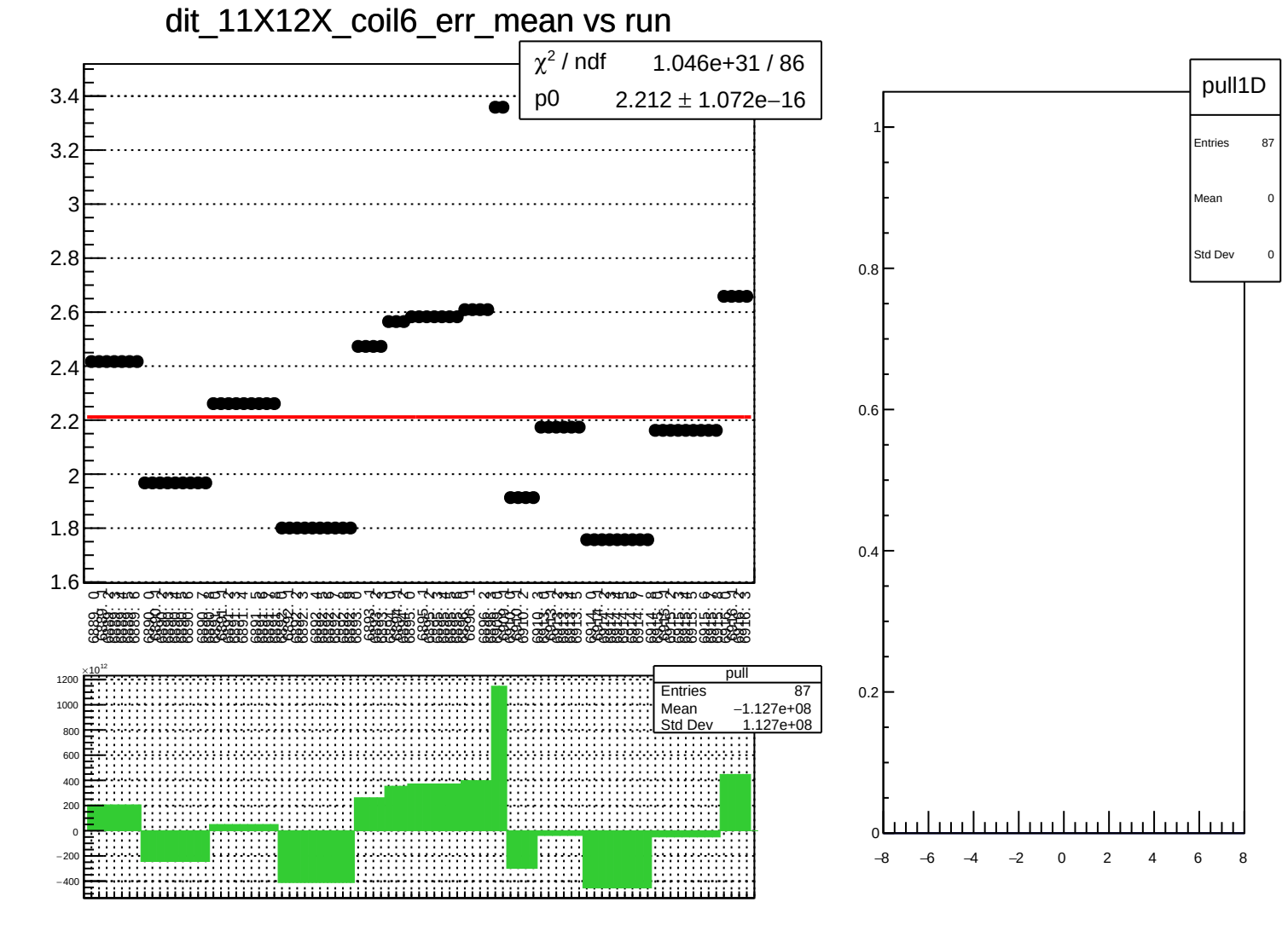

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

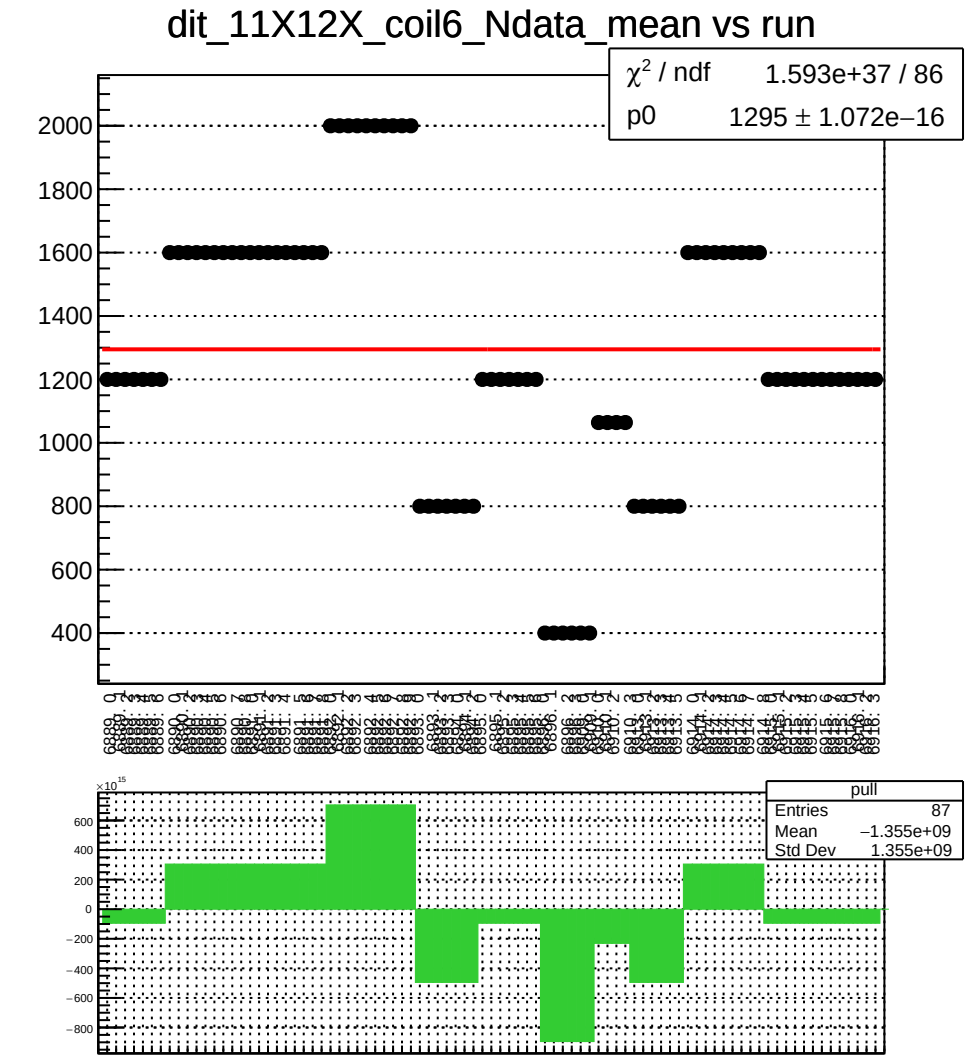

dit_4eX_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09

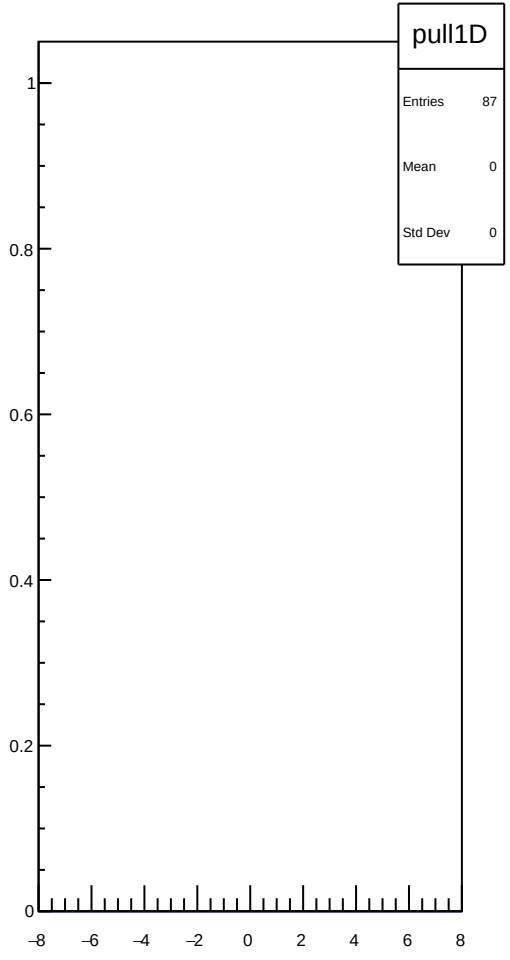

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

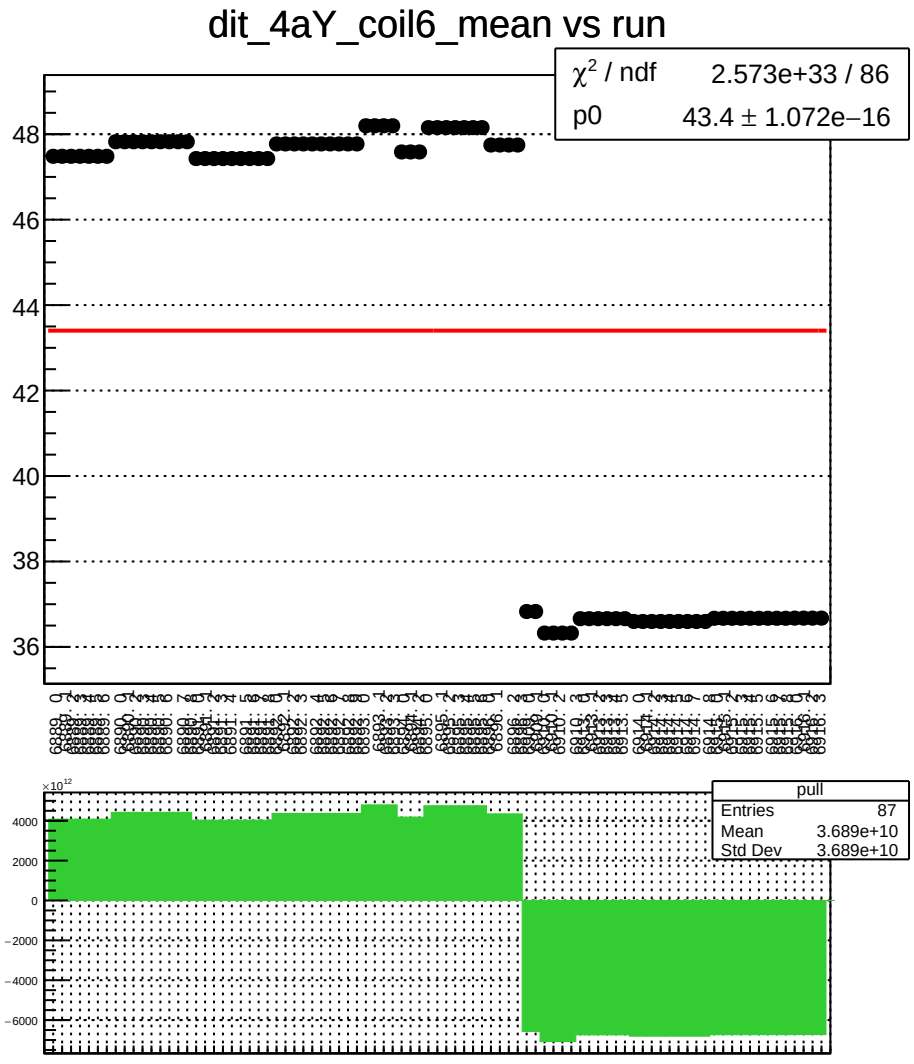

dit_11X12X_coil6_mean vs run
χ² / ndf 1.275e+32 / 86
p0 4.458 ± 1.072e−16
pull
Entries 87
Mean −1.308e+10
Std Dev 1.308e+10

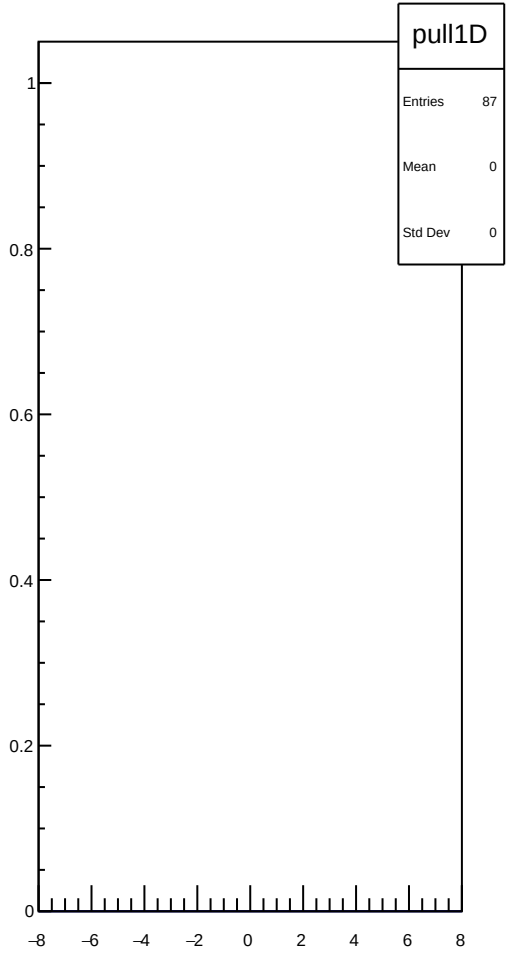

pull1D
Entries 87
Mean 0
Std Dev 0

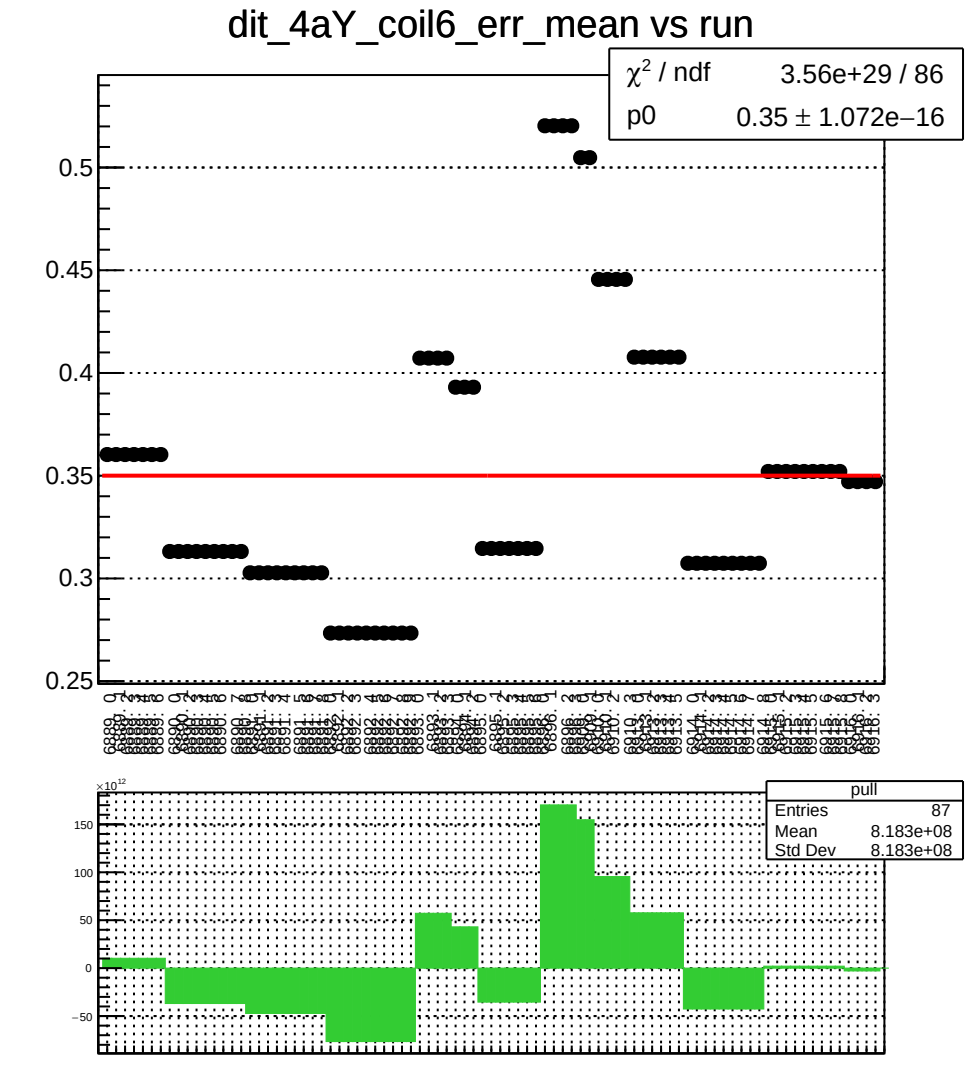

dit_11X12X_coil6_err_mean vs run
χ² / ndf 1.046e+31 / 86
p0 2.212 ± 1.072e−16
pull
Entries 87
Mean −1.127e+08
Std Dev 1.127e+08
pull1D
Entries 87
Mean 0
Std Dev 0

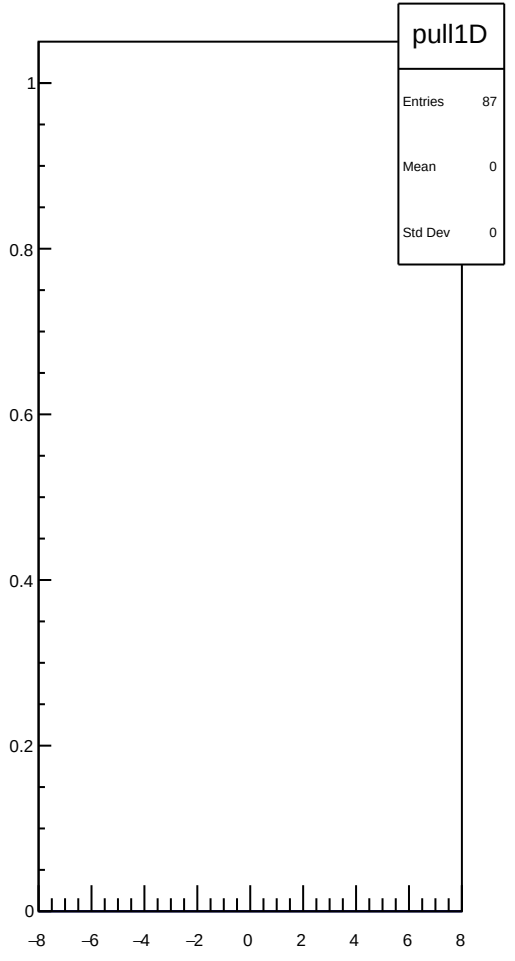

dit_11X12X_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09

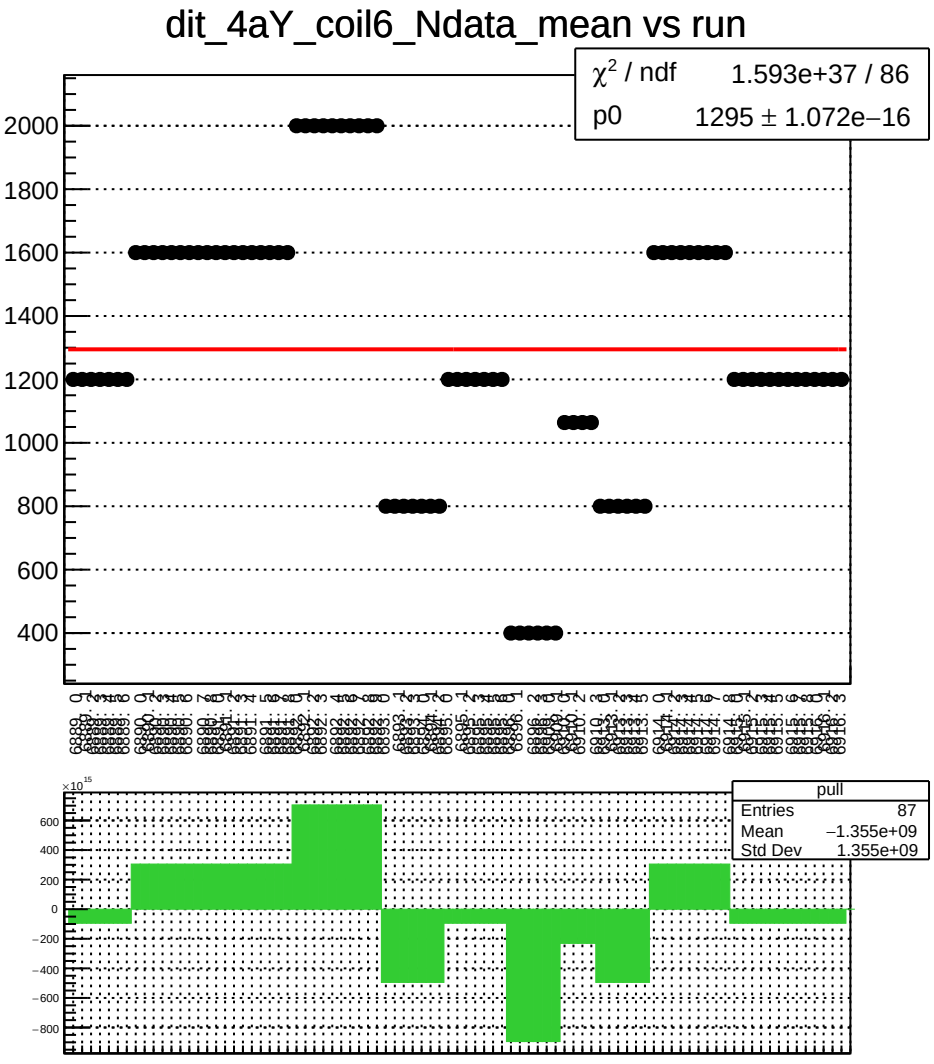

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

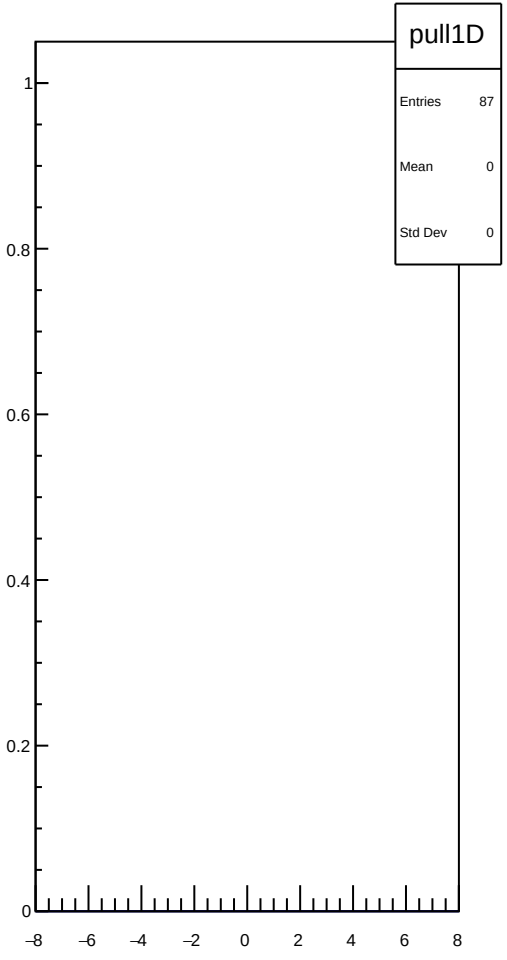

dit_4aY_coil6_mean vs run
χ² / ndf 2.573e+33 / 86
p0 43.4 ± 1.072e−16
48
46
44
42
40
38
36
×10¹²
4000
2000
0
−2000
−4000
−6000
pull
Entries 87
Mean 3.689e+10
Std Dev 3.689e+10

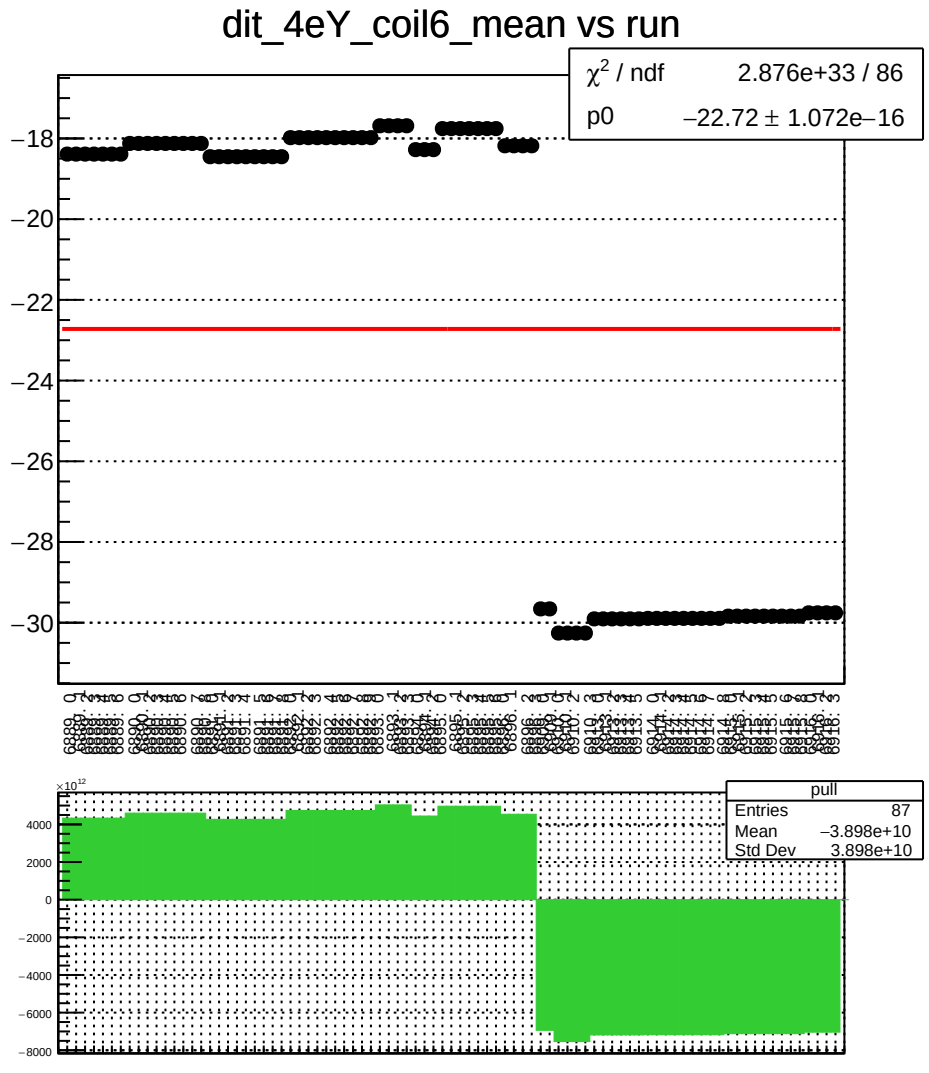

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

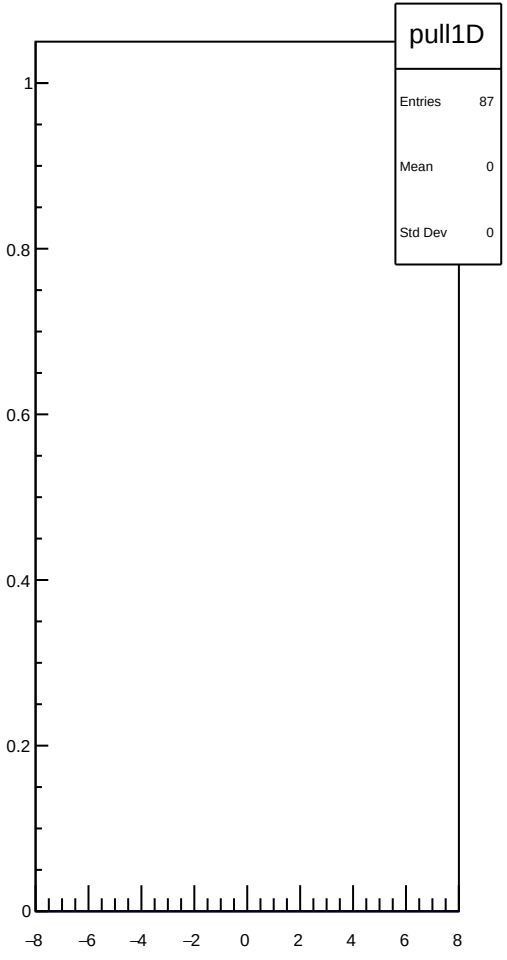

dit_4aY_coil6_err_mean vs run
χ² / ndf 3.56e+29 / 86
p0 0.35 ± 1.072e−16
0.5
0.45
0.4
0.35
0.3
0.25
×10¹²
150
100
50
0
−50
pull
Entries 87
Mean 8.183e+08
Std Dev 8.183e+08

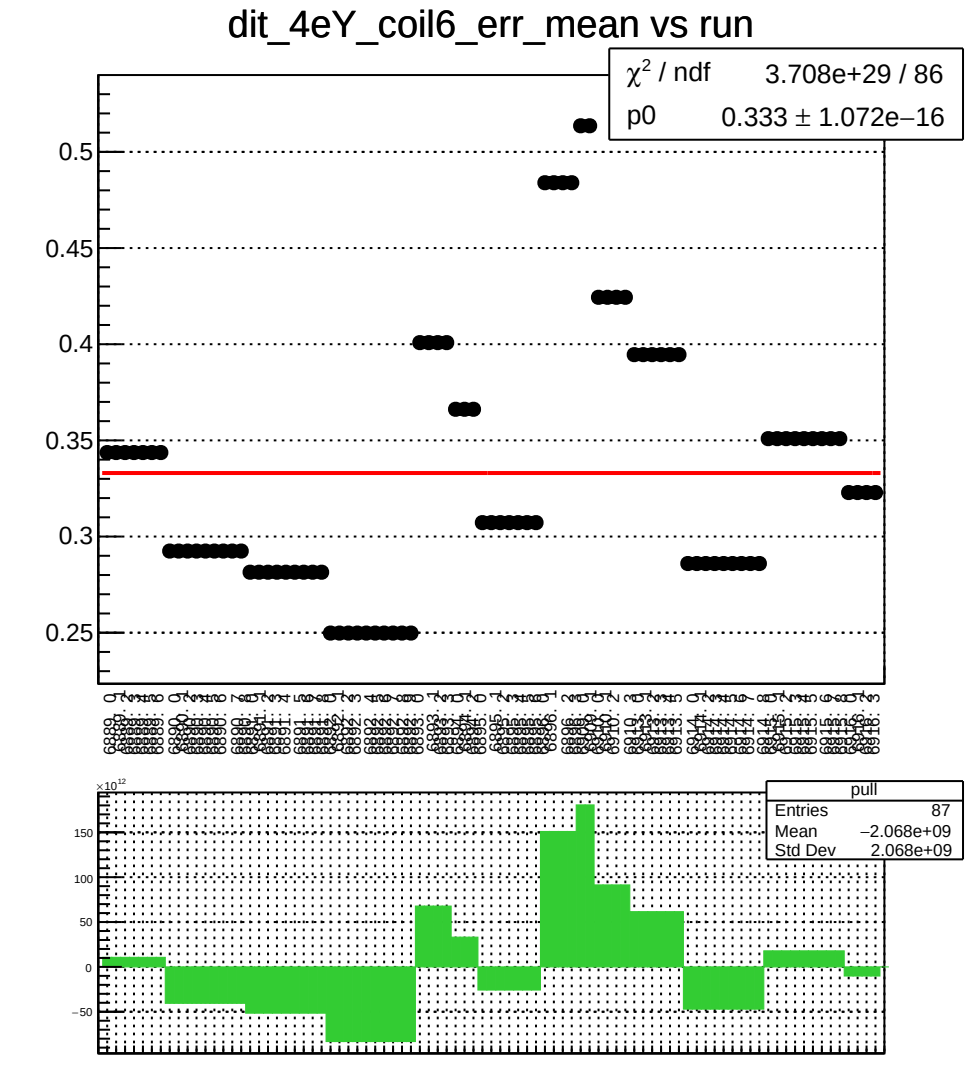

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

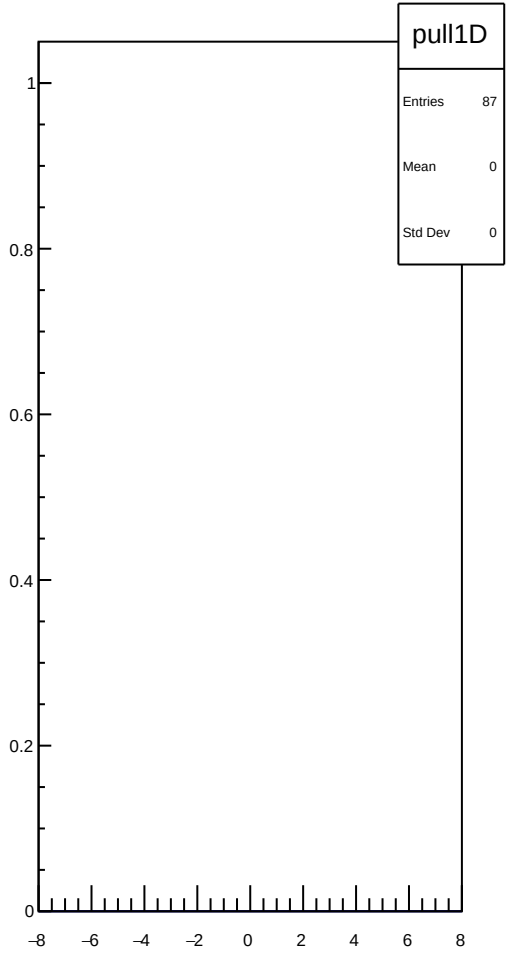

dit_4aY_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800

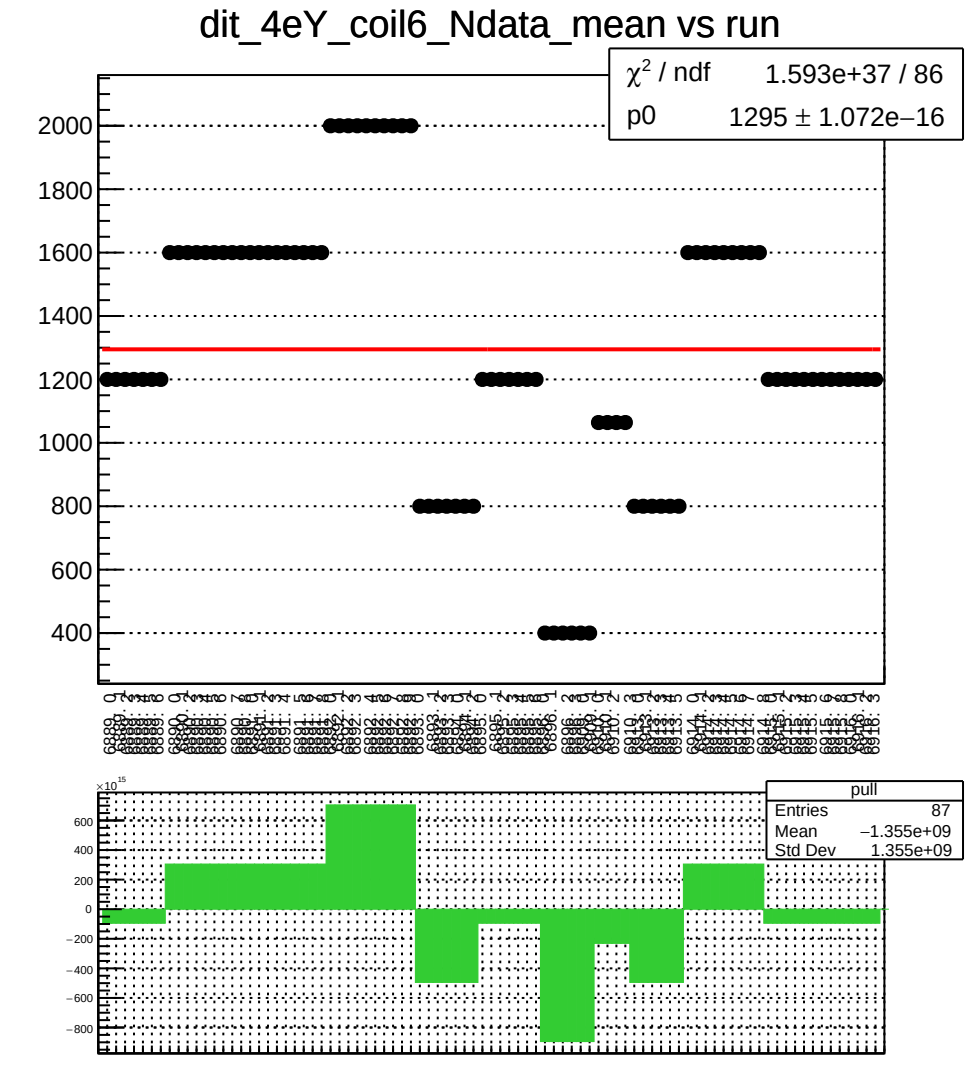

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

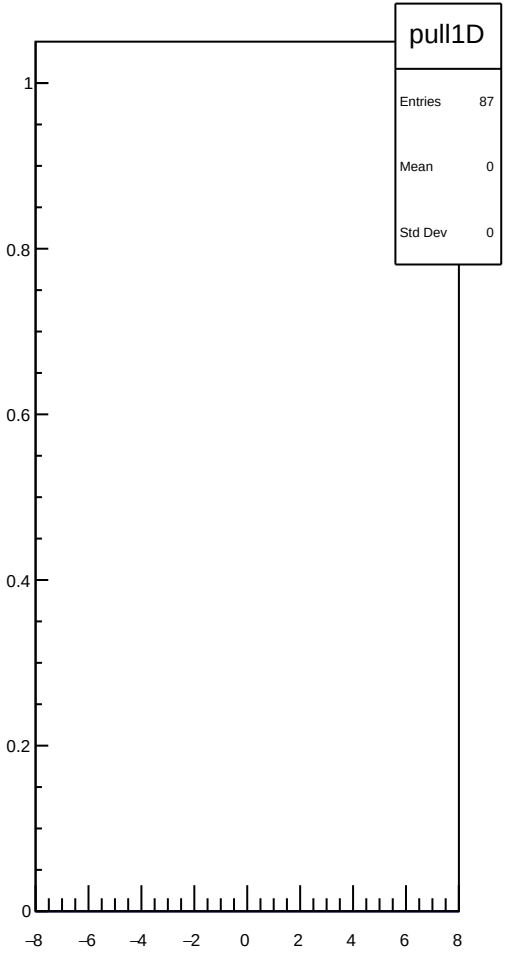

dit_4eY_coil6_mean vs run
χ² / ndf 2.876e+33 / 86
p0 −22.72 ± 1.072e−16
−18
−20
−22
−24
−26
−28
−30
pull
Entries 87
Mean −3.898e+10
Std Dev 3.898e+10
×10¹²
4000
2000
0
−2000
−4000
−6000
−8000

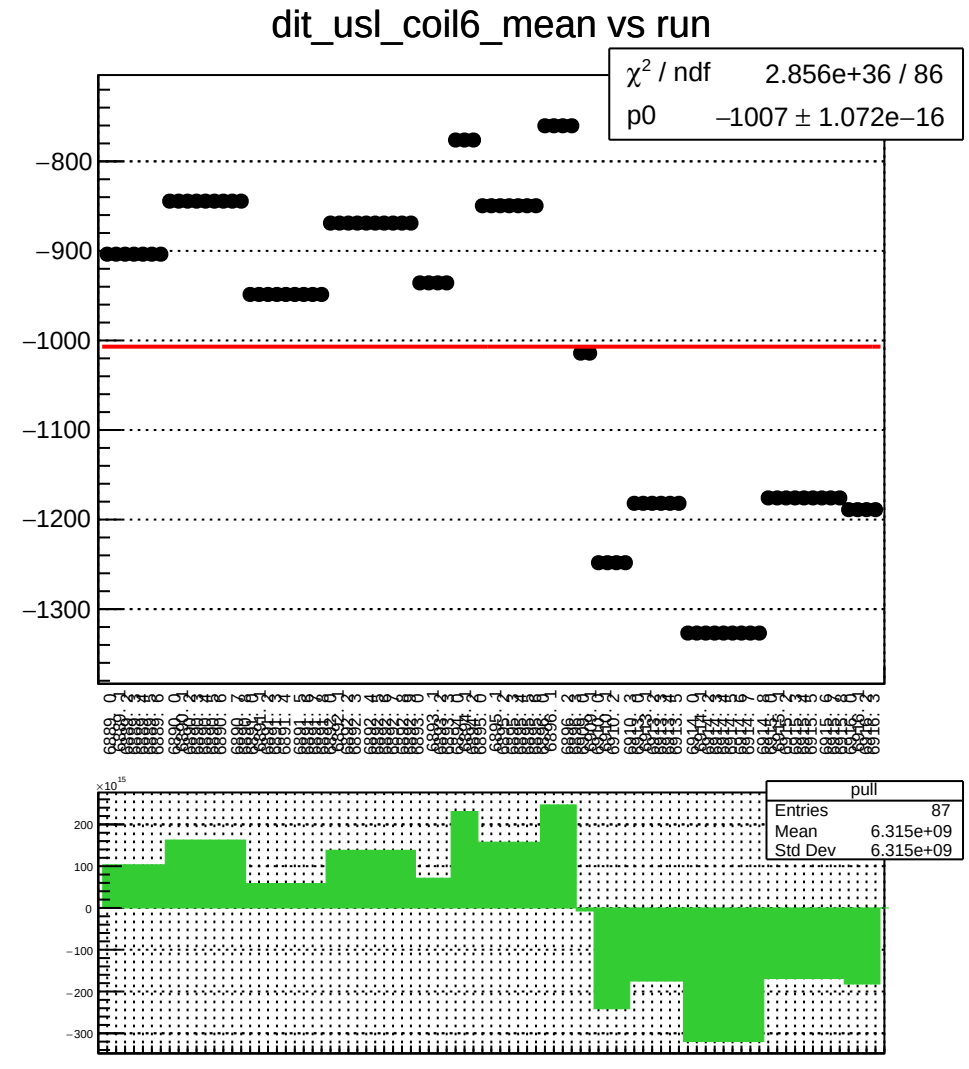

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

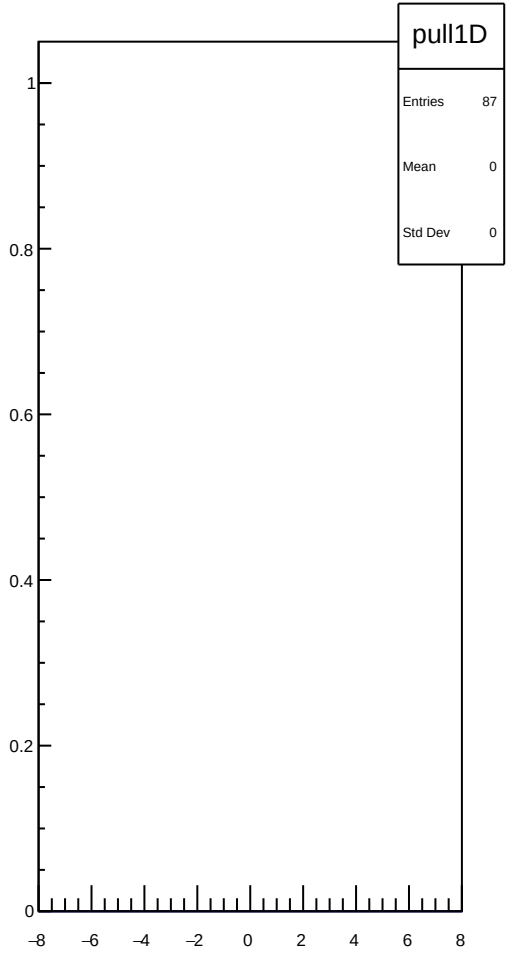

dit_4eY_coil6_err_mean vs run
χ² / ndf 3.708e+29 / 86
p0 0.333 ± 1.072e−16
0.5
0.45
0.4
0.35
0.3
0.25
×10¹²
150
100
50
0
−50
pull
Entries 87
Mean −2.068e+09
Std Dev 2.068e+09

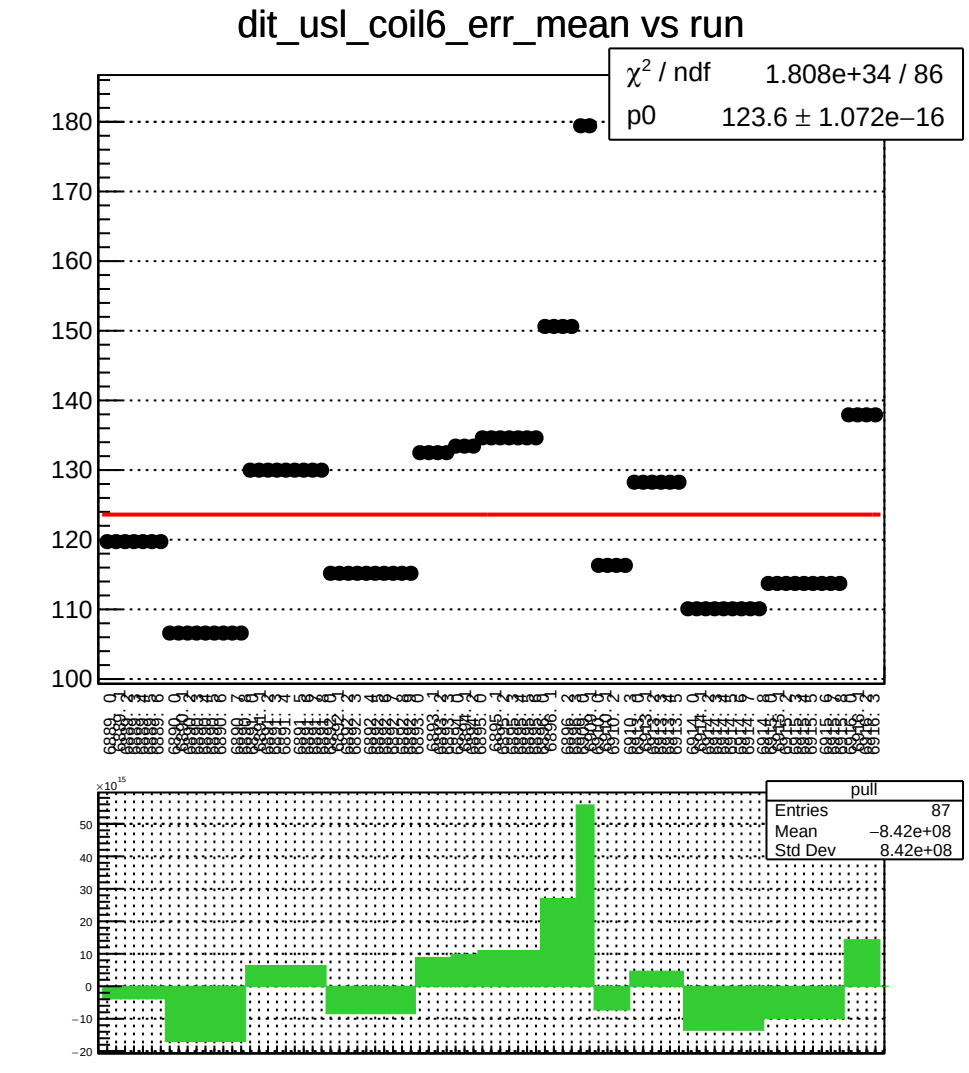

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

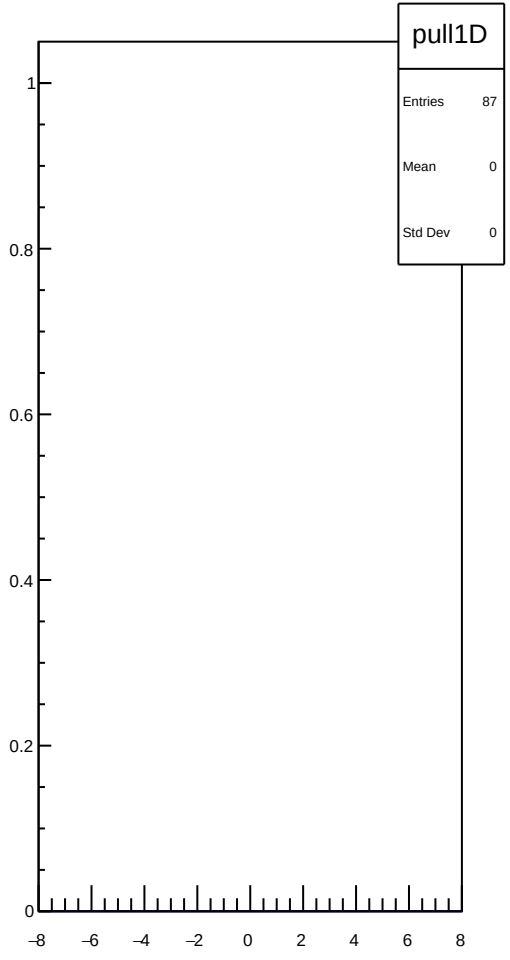

dit_4eY_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800

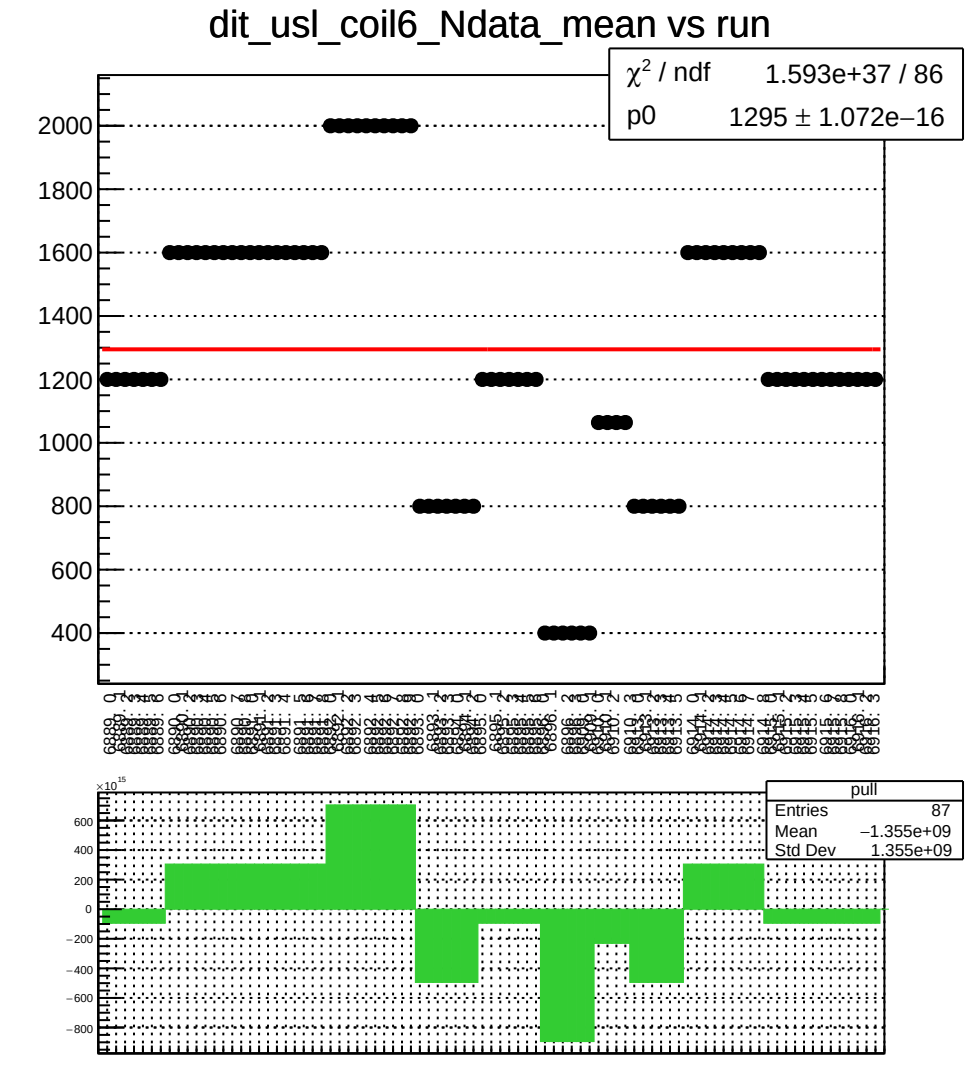

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

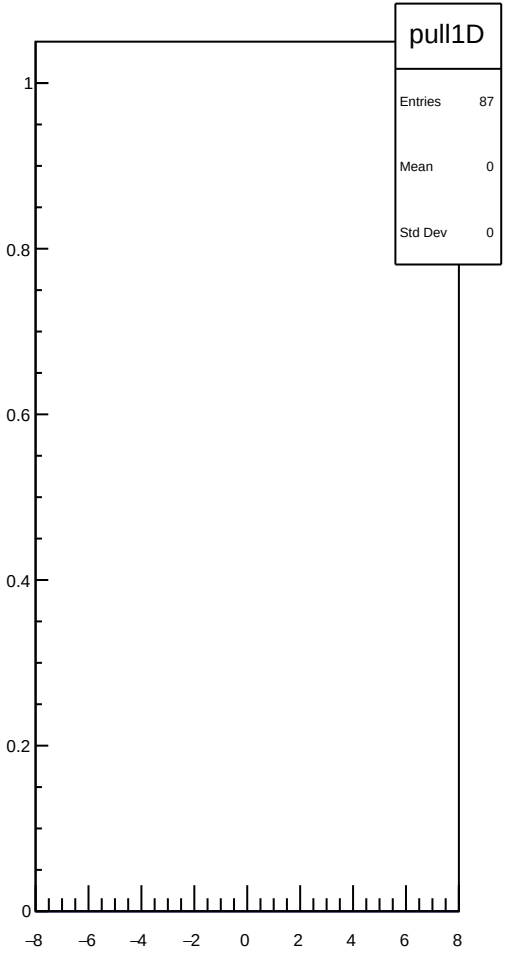

dit_usl_coil6_mean vs run
χ² / ndf 2.856e+36 / 86
p0 −1007 ± 1.072e−16
−800
−900
−1000
−1100
−1200
−1300
×10¹⁵
200
100
0
−100
−200
−300
pull
Entries 87
Mean 6.315e+09
Std Dev 6.315e+09

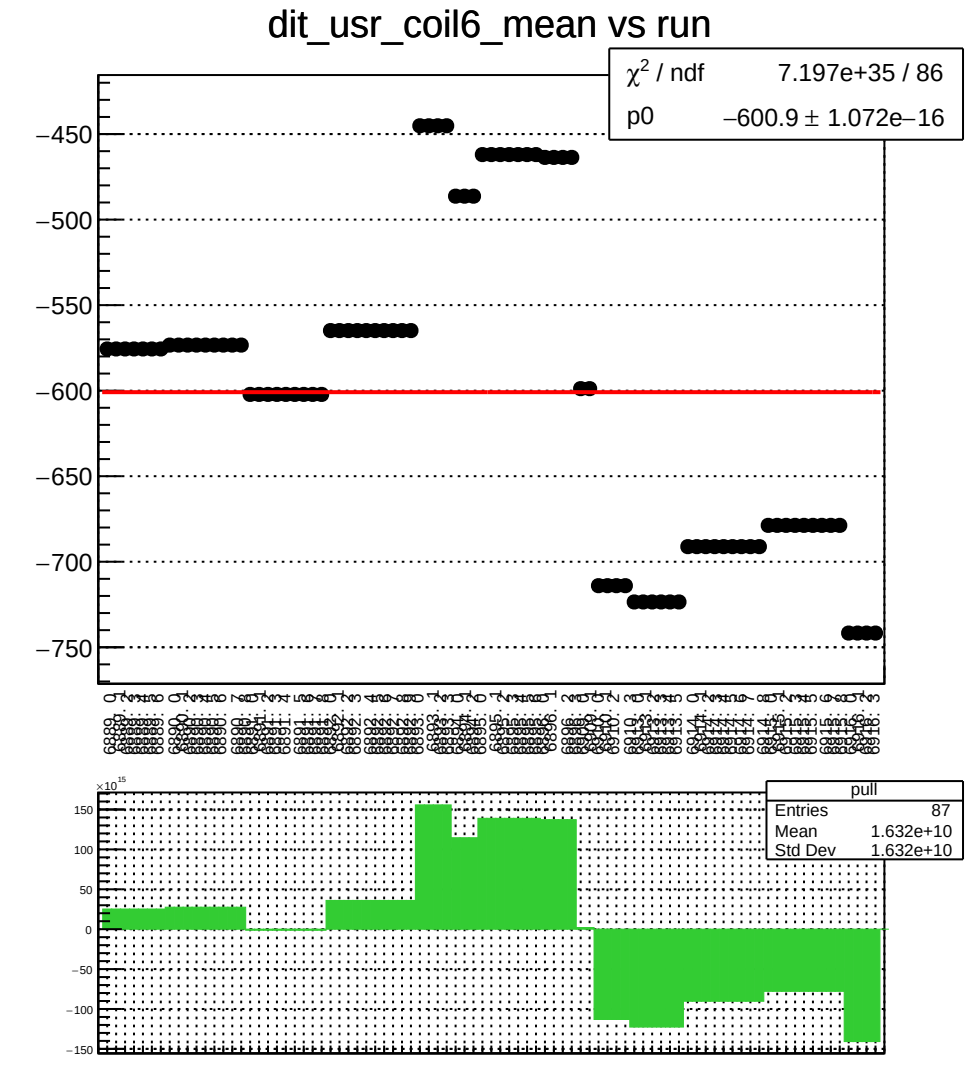

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

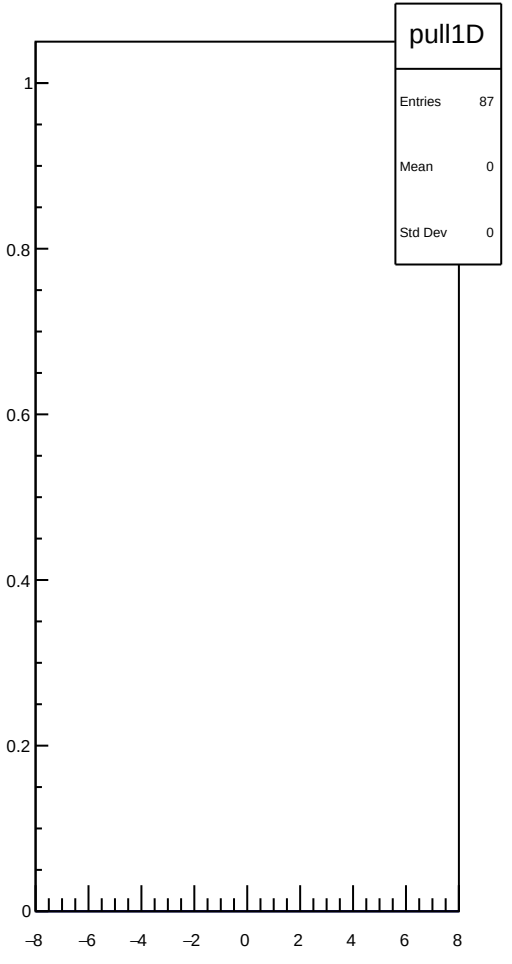

dit_usl_coil6_err_mean vs run
χ² / ndf 1.808e+34 / 86
p0 123.6 ± 1.072e−16
pull
Entries 87
Mean −8.42e+08
Std Dev 8.42e+08

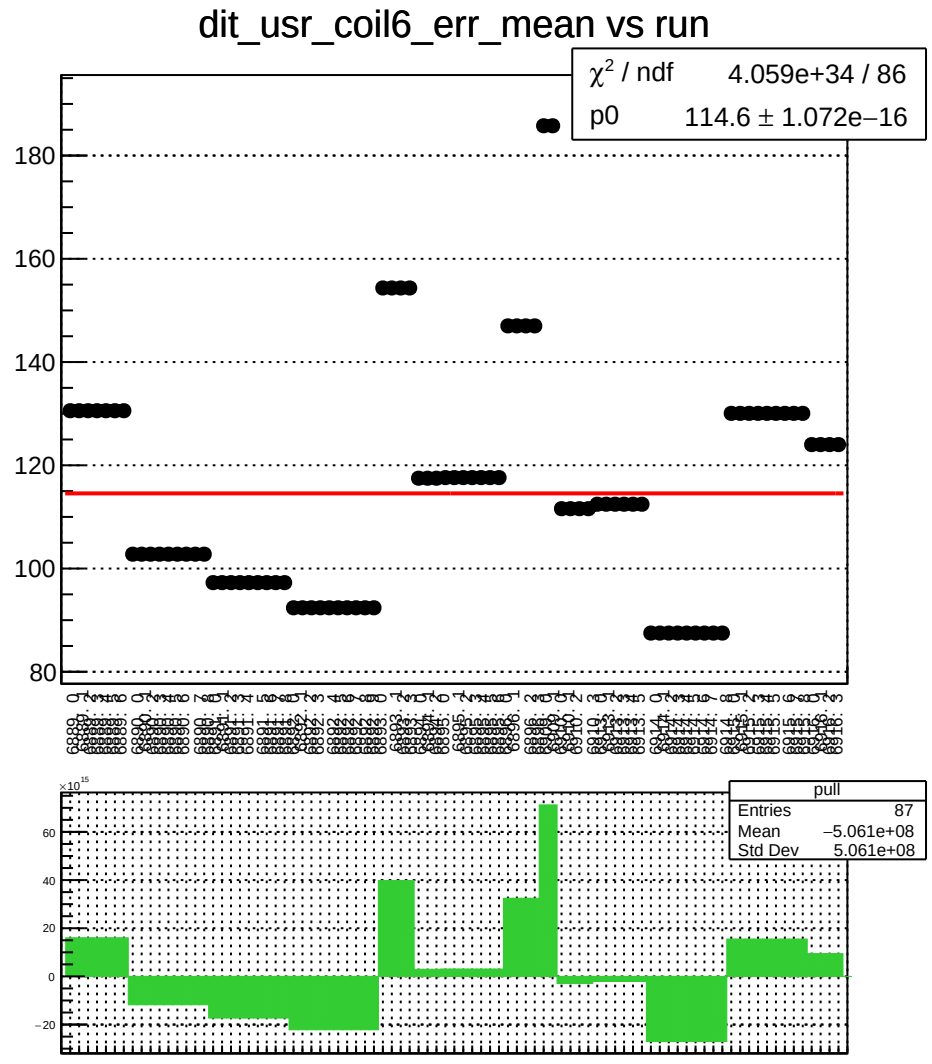

pull1D
Entries 87
Mean 0
Std Dev 0

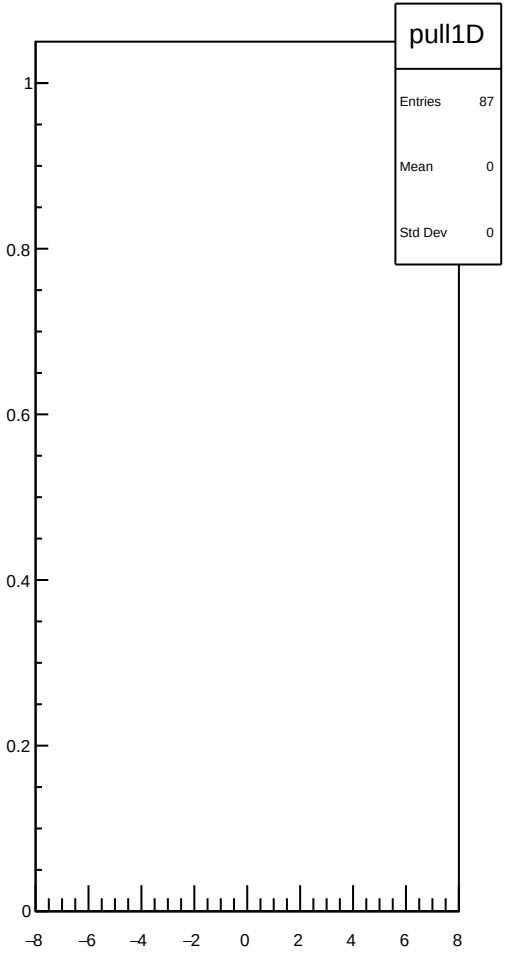

dit_usl_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800

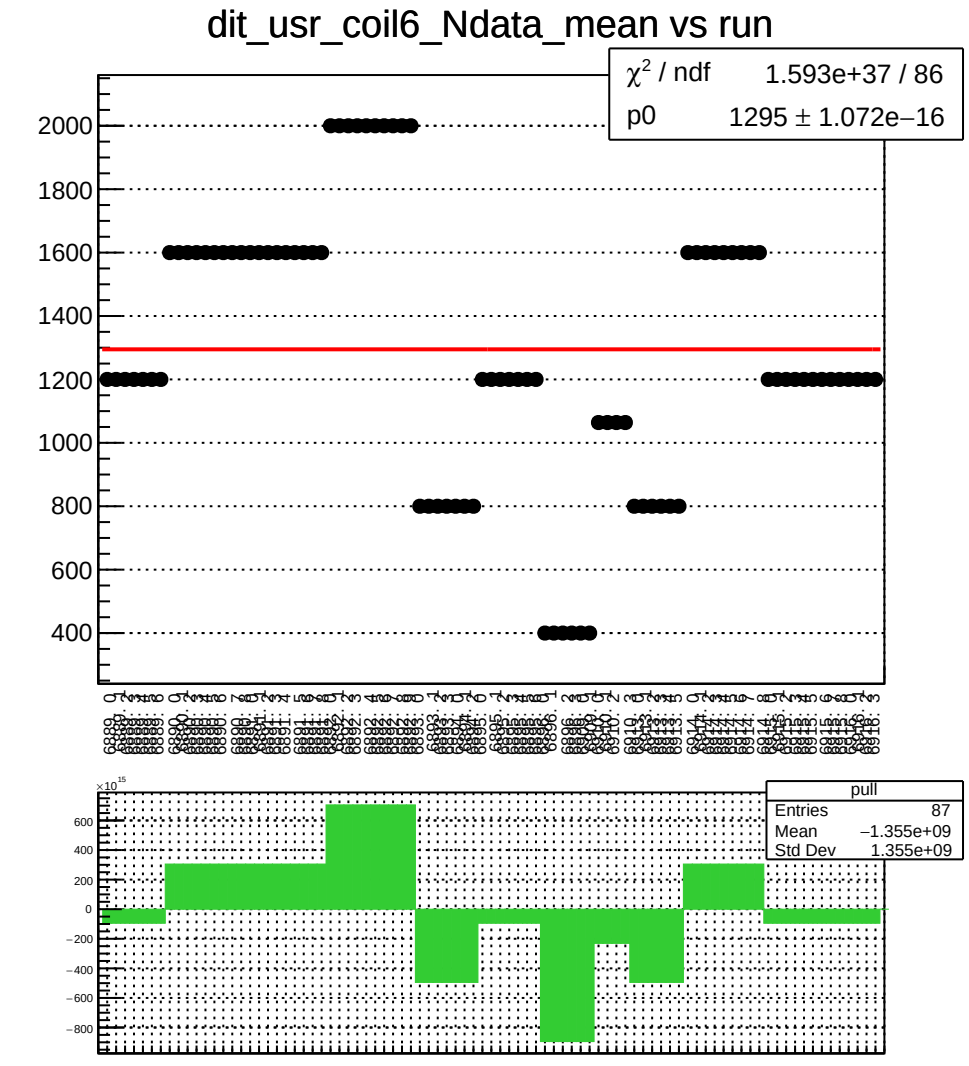

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

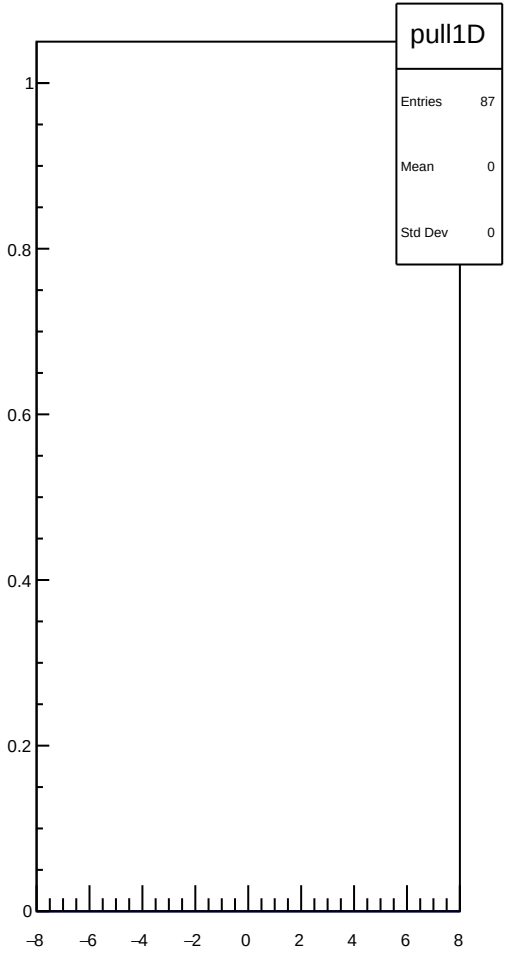

dit_usr_coil6_mean vs run
χ² / ndf 7.197e+35 / 86
p0 −600.9 ± 1.072e−16
−450
−500
−550
−600
−650
−700
−750
pull
Entries 87
Mean 1.632e+10
Std Dev 1.632e+10
×10¹⁵
150
100
50
0
−50
−100
−150

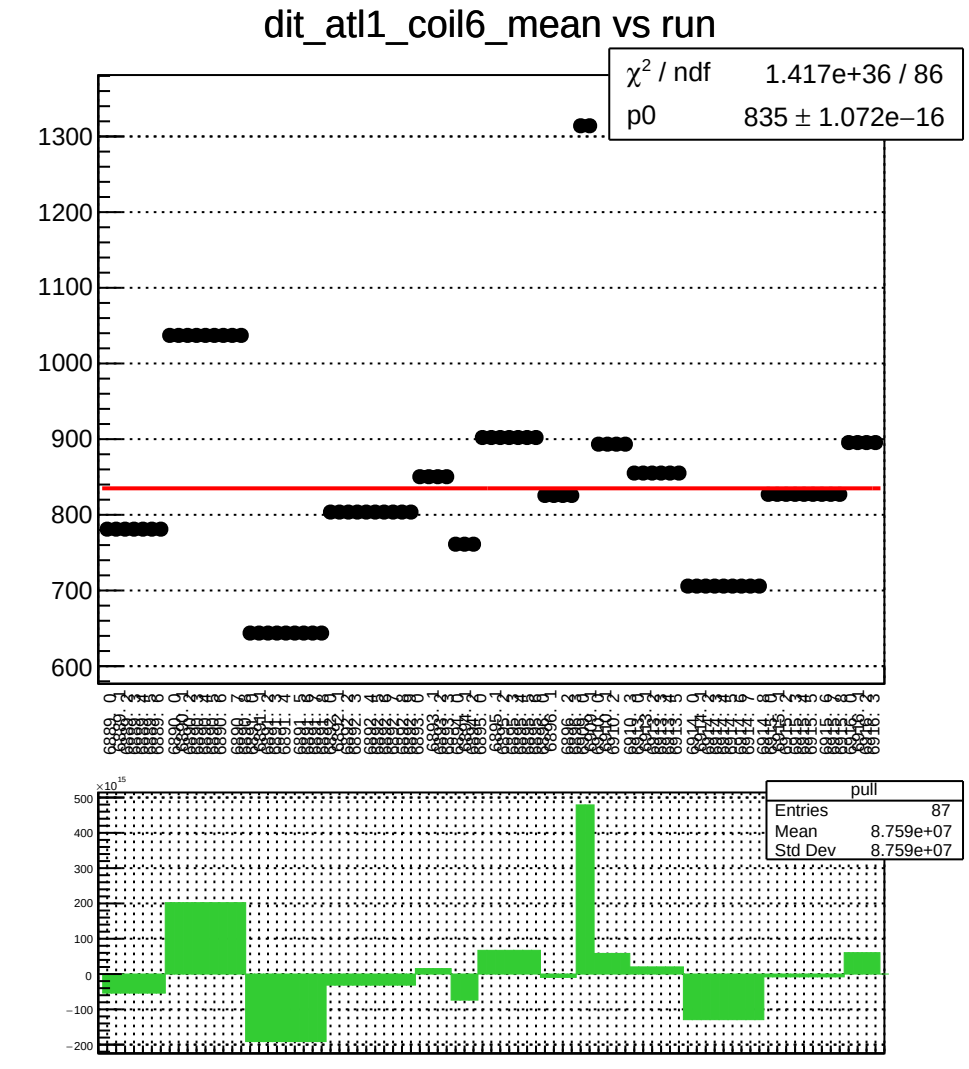

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

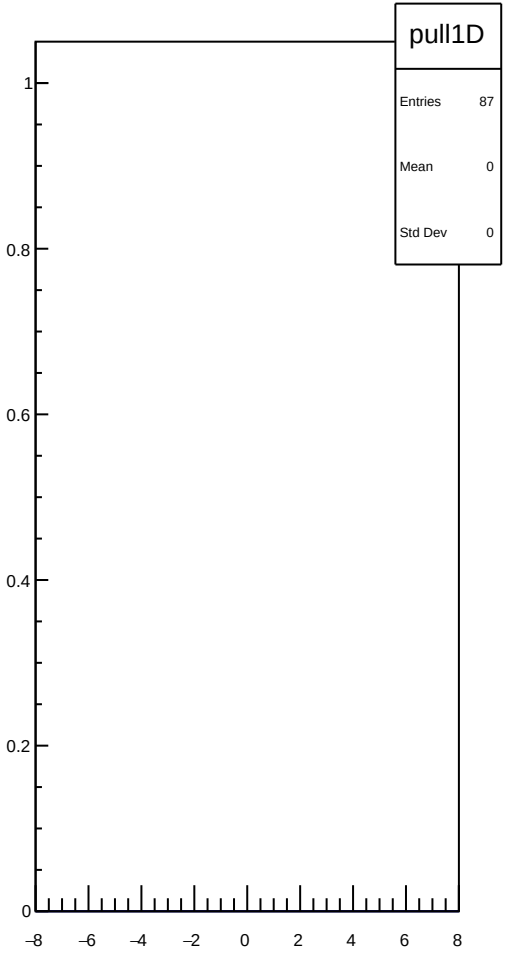

dit_usr_coil6_err_mean vs run
χ² / ndf 4.059e+34 / 86
p0 114.6 ± 1.072e−16
180
160
140
120
100
80
pull
Entries 87
Mean −5.061e+08
Std Dev 5.061e+08
×10¹⁵
60
40
20
0
−20

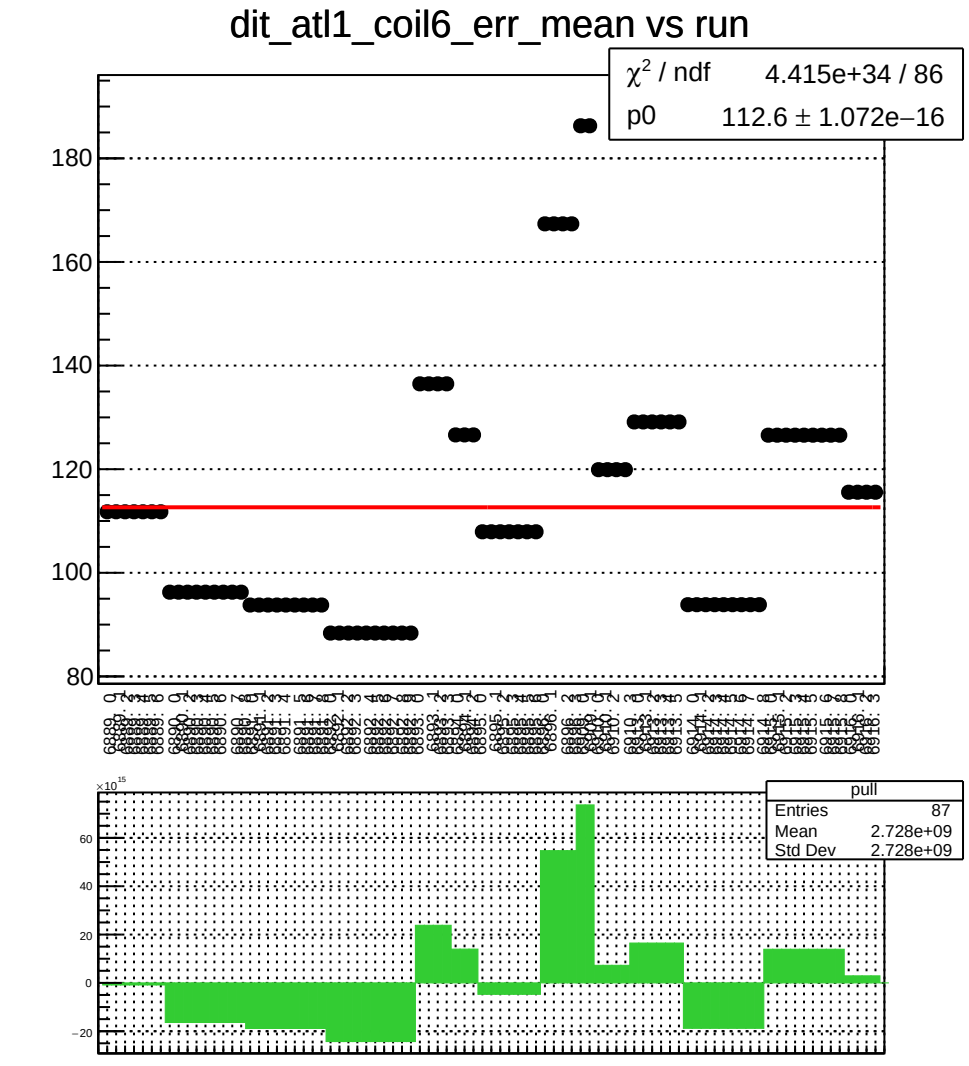

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

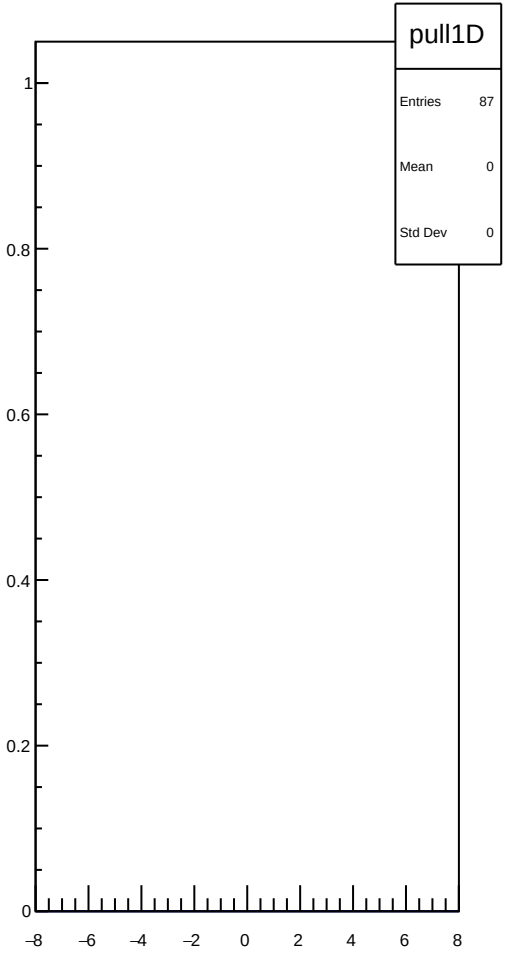

dit_usr_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09

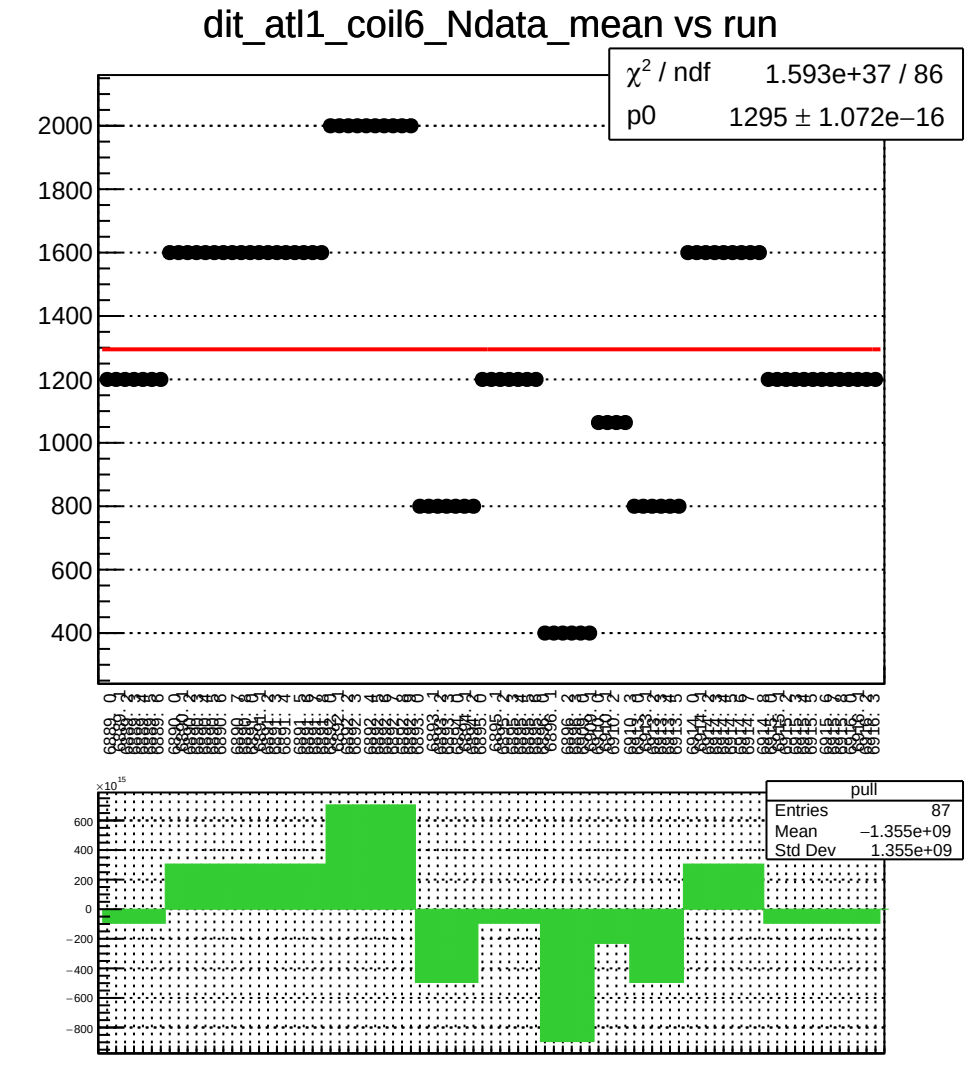

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

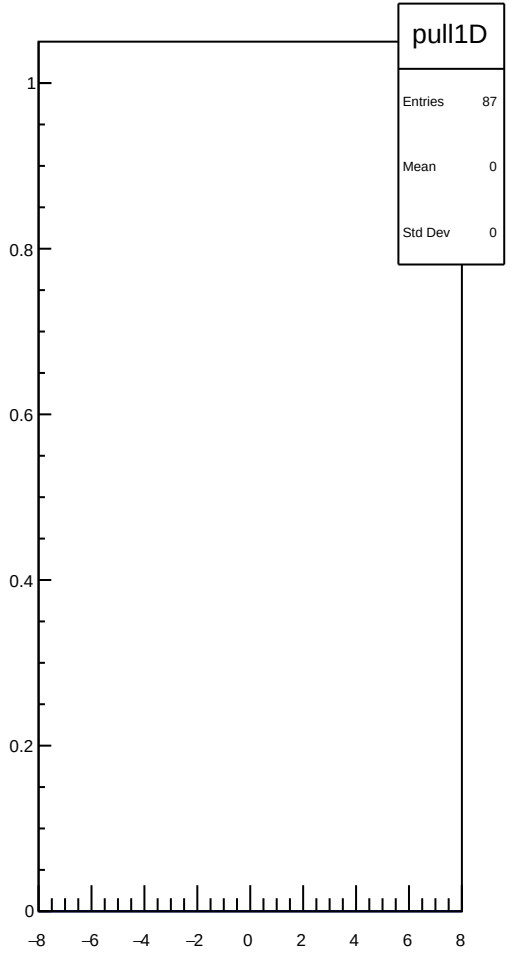

dit_atl1_coil6_mean vs run
χ² / ndf 1.417e+36 / 86
p0 835 ± 1.072e−16
1300
1200
1100
1000
900
800
700
600
×10¹⁵
500
400
300
200
100
0
−100
−200
pull
Entries 87
Mean 8.759e+07
Std Dev 8.759e+07

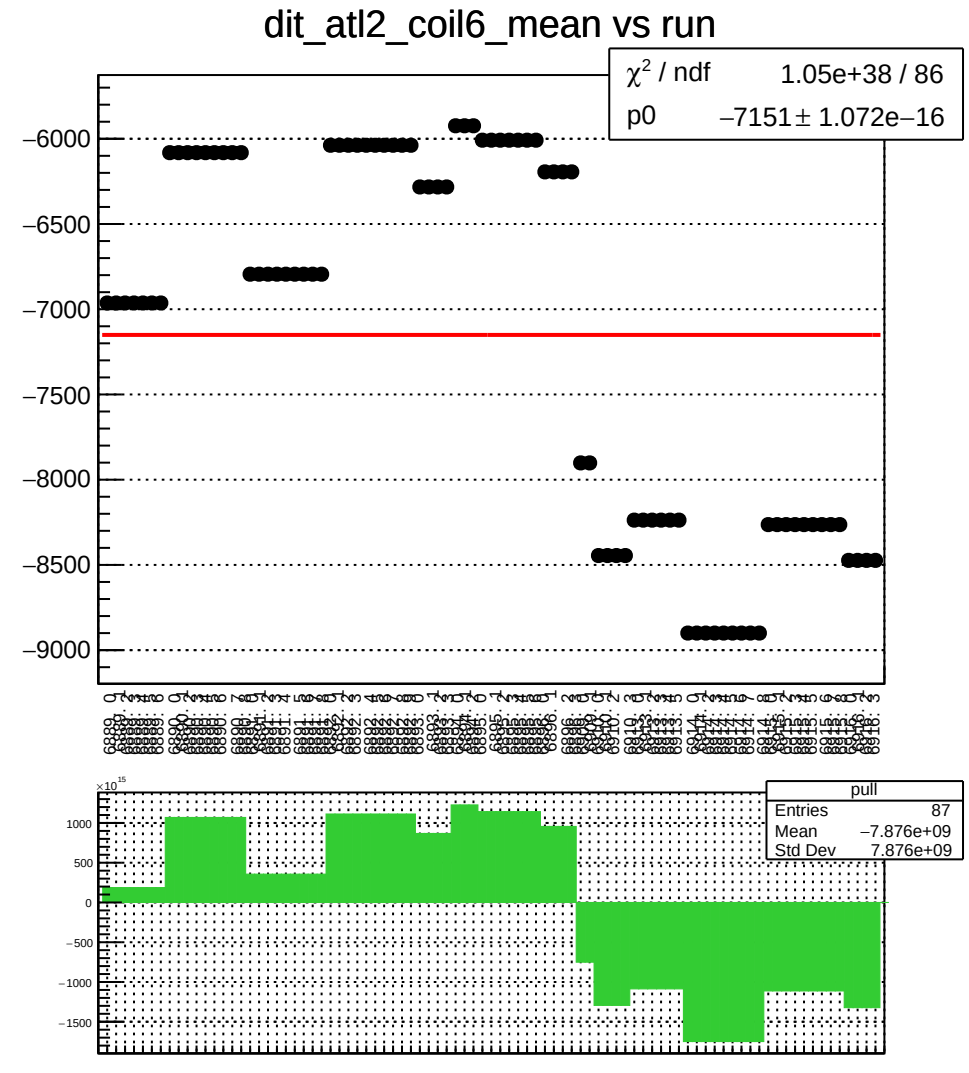

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

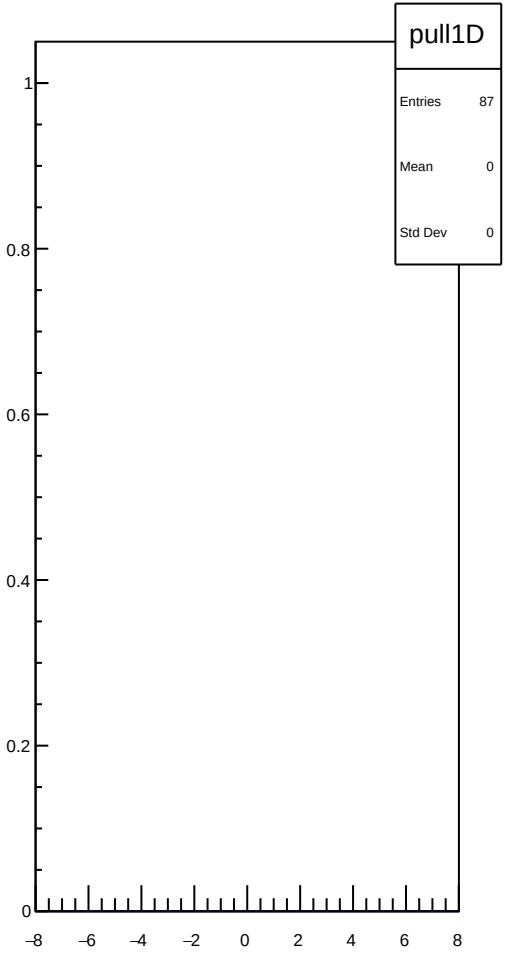

dit_atl1_coil6_err_mean vs run
χ² / ndf 4.415e+34 / 86
p0 112.6 ± 1.072e−16
180
160
140
120
100
80
pull
Entries 87
Mean 2.728e+09
Std Dev 2.728e+09
×10¹⁵
60
40
20
0
−20

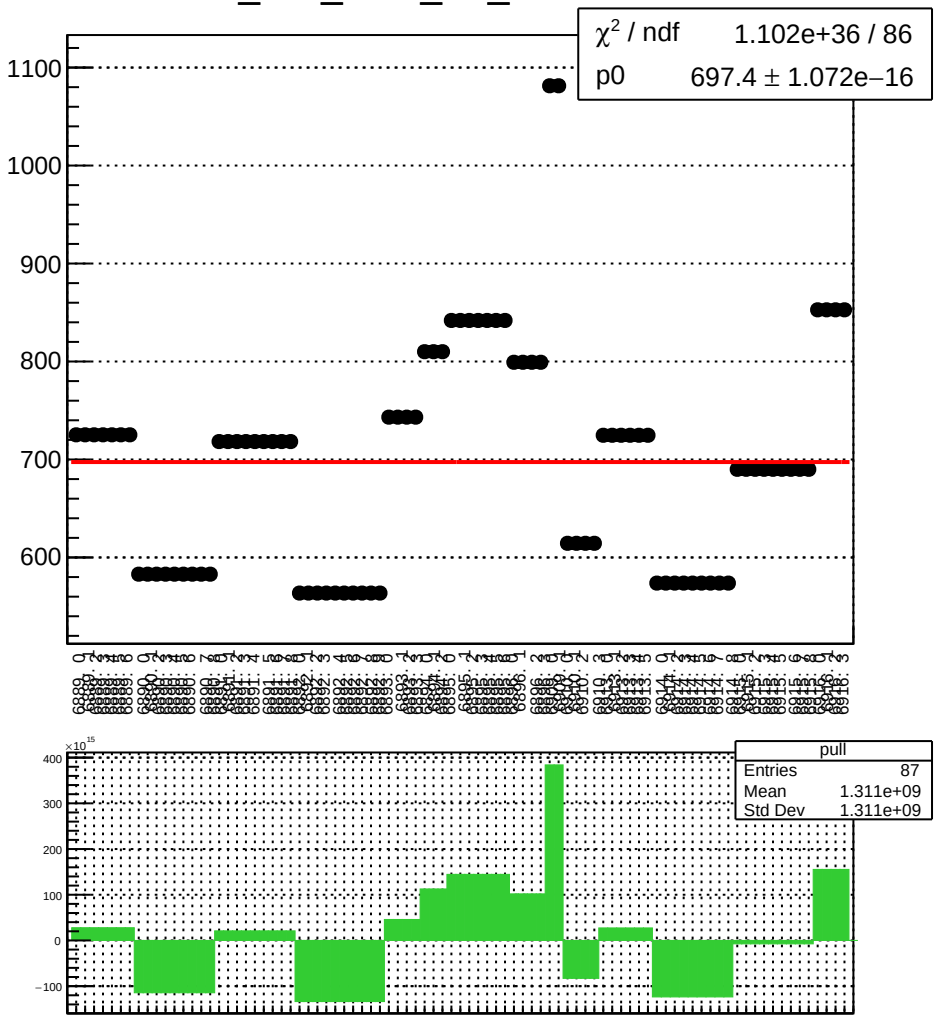

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

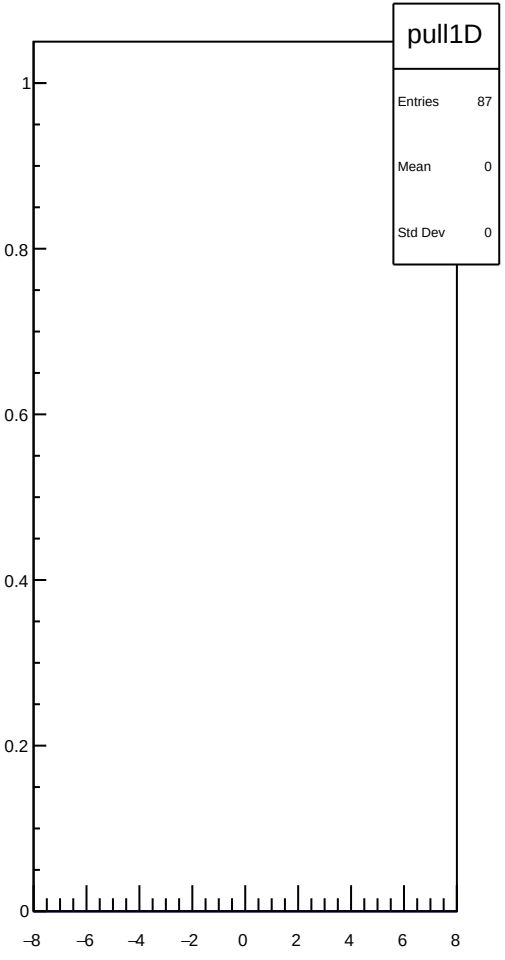

dit_atl1_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09

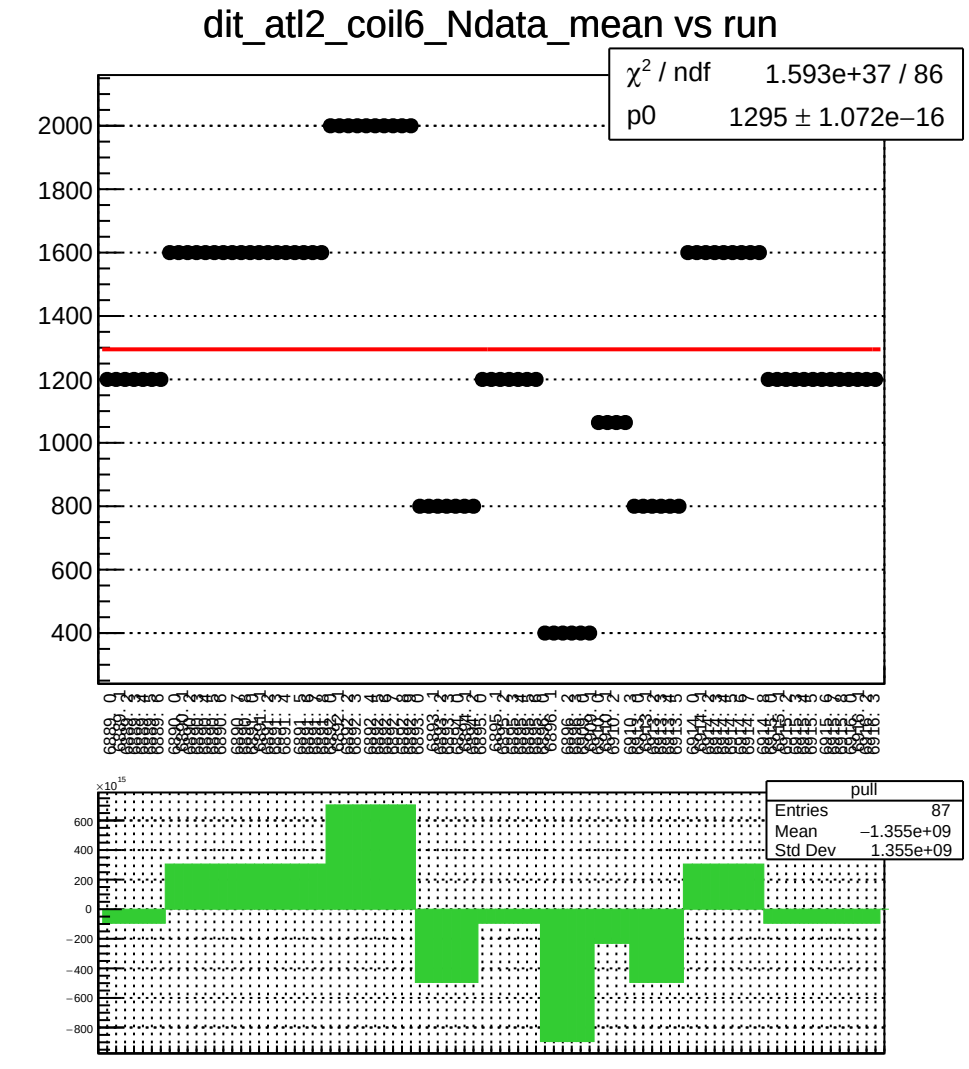

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

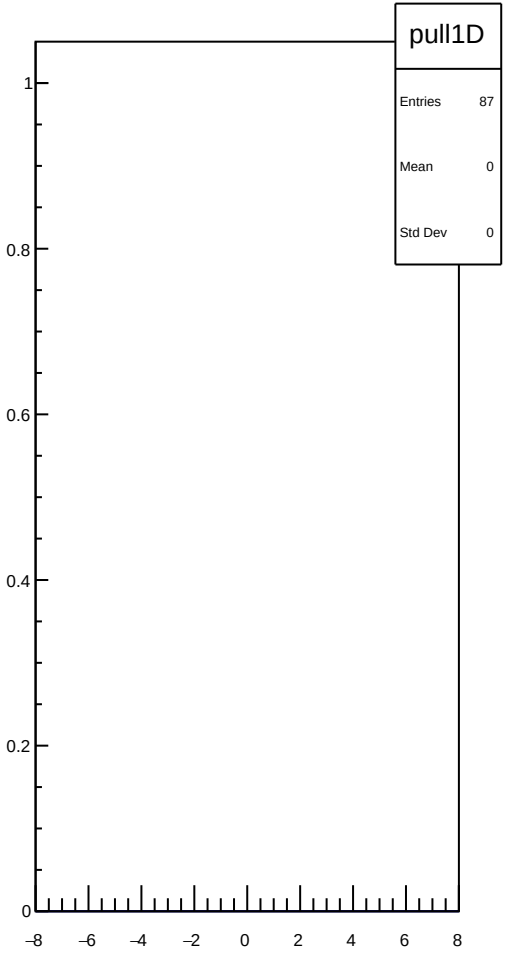

dit_atl2_coil6_mean vs run
χ² / ndf 1.05e+38 / 86
p0 −7151 ± 1.072e−16
−6000
−6500
−7000
−7500
−8000
−8500
−9000
pull
Entries 87
Mean −7.876e+09
Std Dev 7.876e+09
×10¹⁵
1000
500
0
−500
−1000
−1500

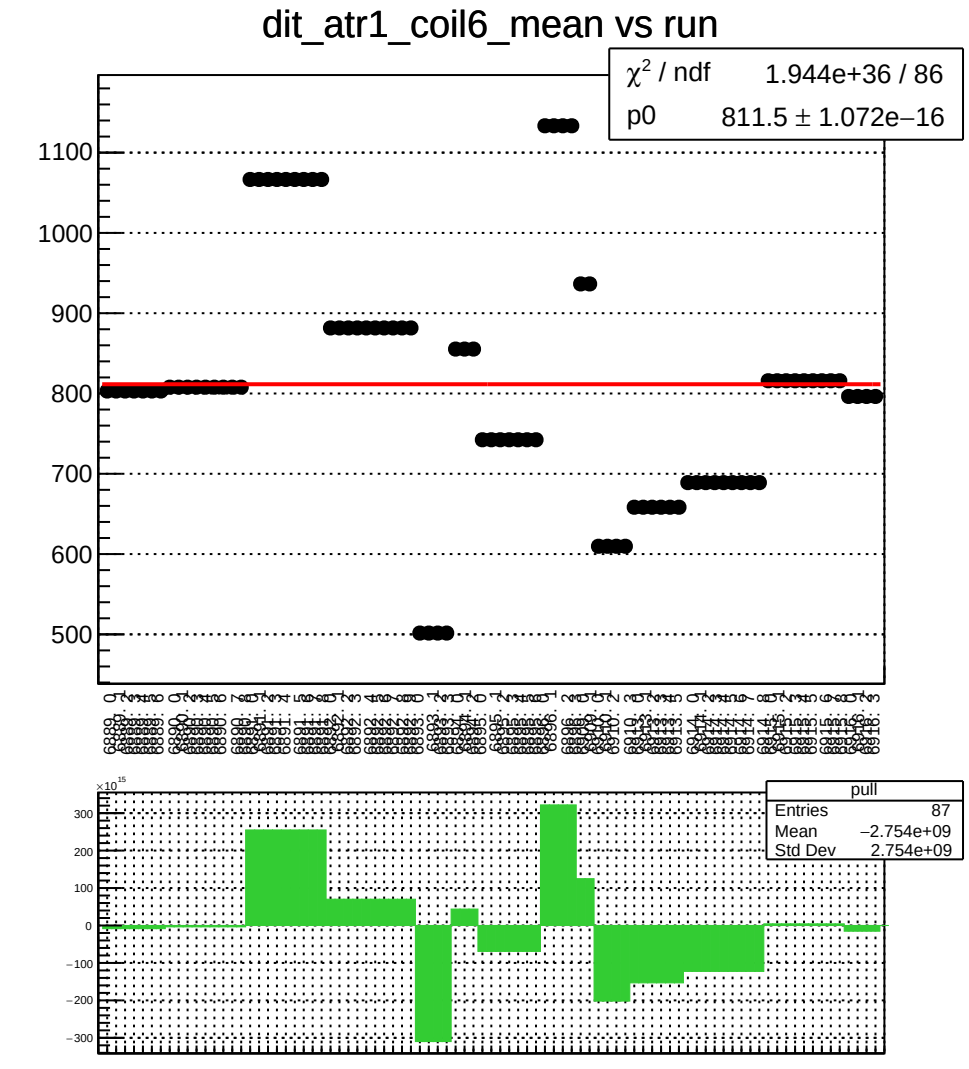

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

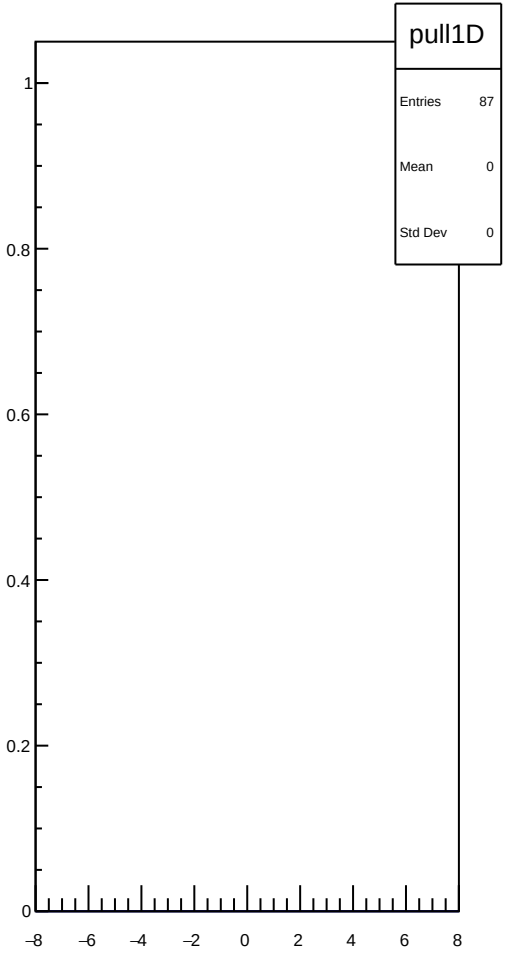

dit_atl2_coil6_err_mean vs run
χ² / ndf 1.102e+36 / 86
p0 697.4 ± 1.072e−16
1100
1000
900
800
700
600
pull
Entries 87
Mean 1.311e+09
Std Dev 1.311e+09
×10¹⁵
400
300
200
100
0
−100

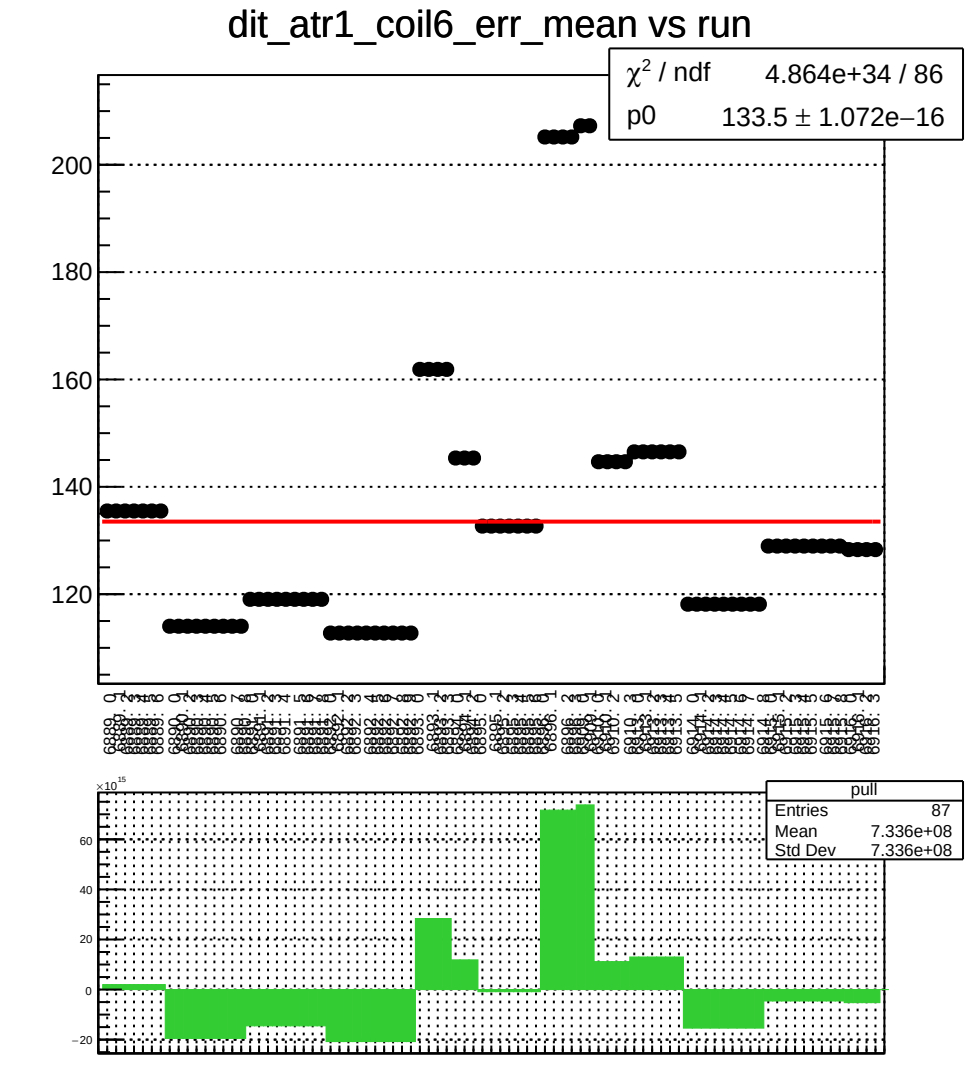

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

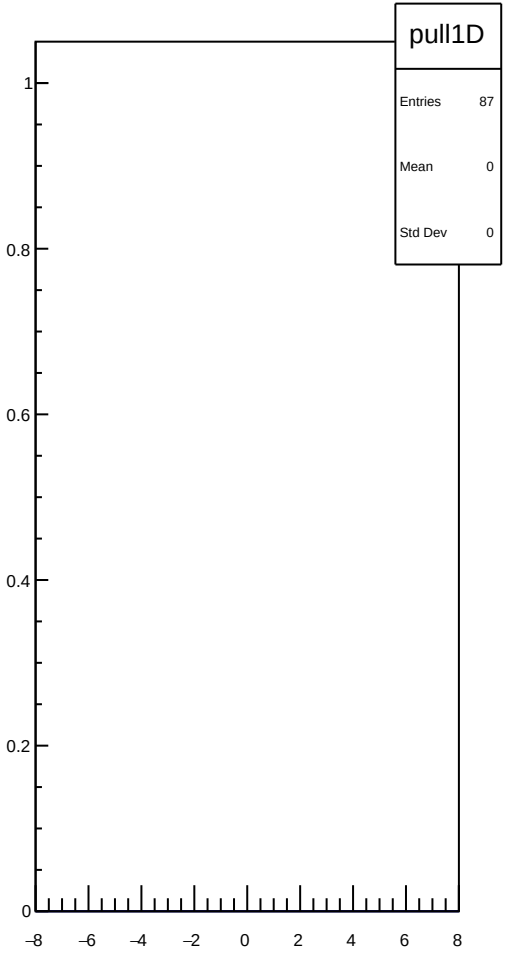

dit_atl2_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09

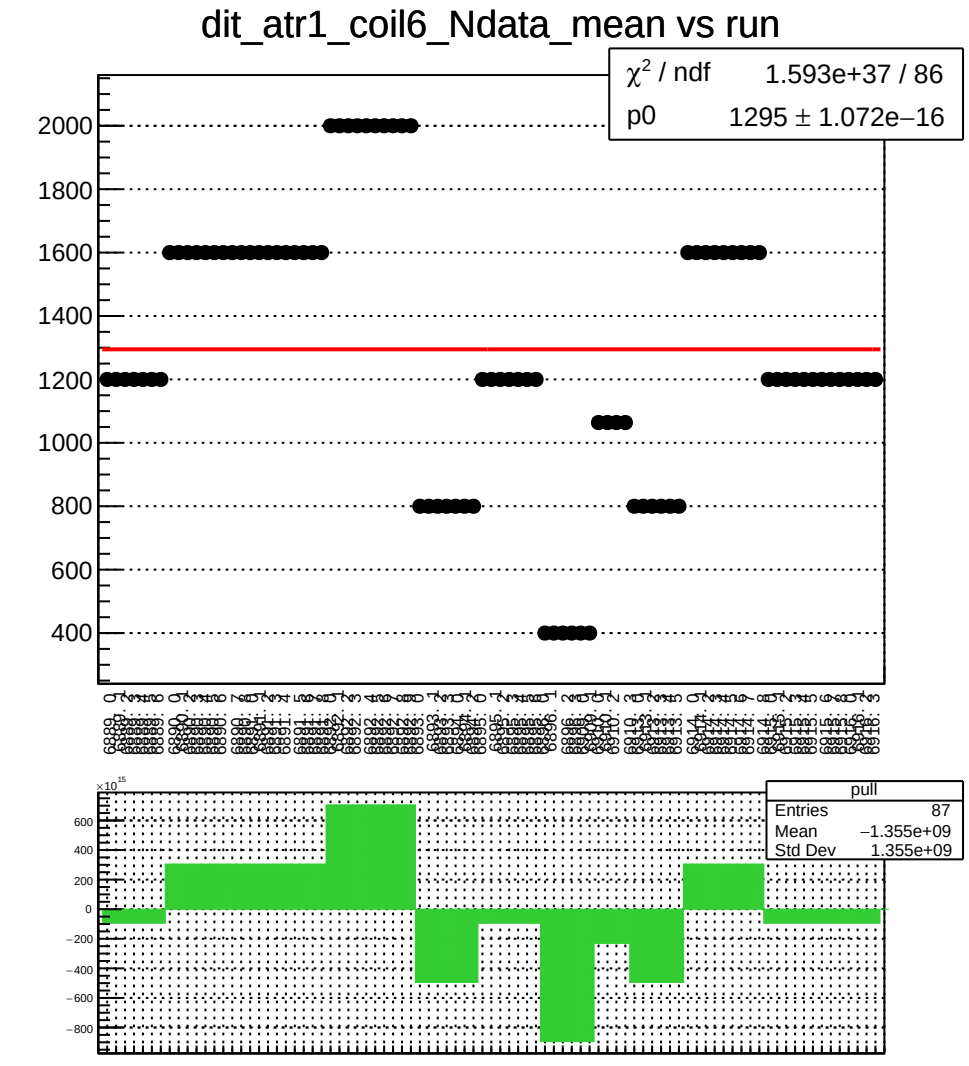

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

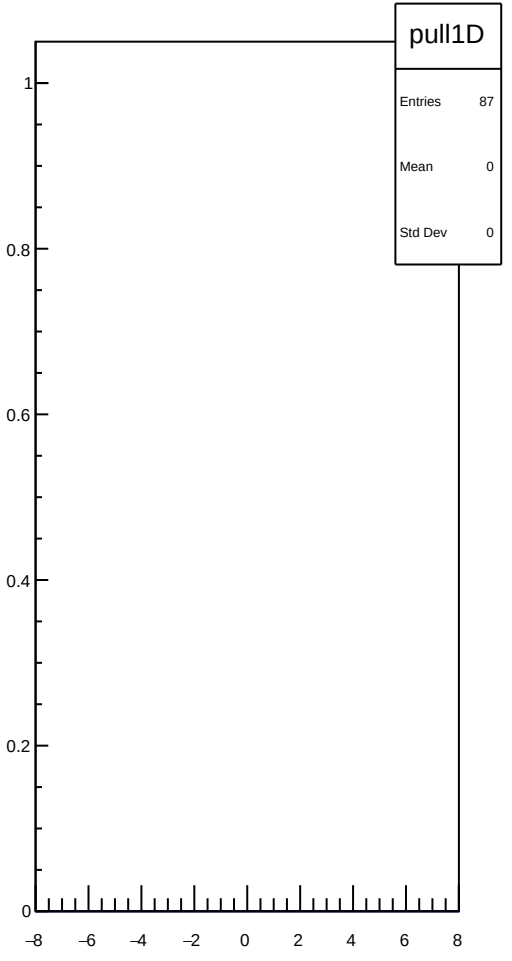

dit_atr1_coil6_mean vs run
χ² / ndf 1.944e+36 / 86
p0 811.5 ± 1.072e−16
1100
1000
900
800
700
600
500
×10¹⁵
300
200
100
0
−100
−200
−300
pull
Entries 87
Mean −2.754e+09
Std Dev 2.754e+09

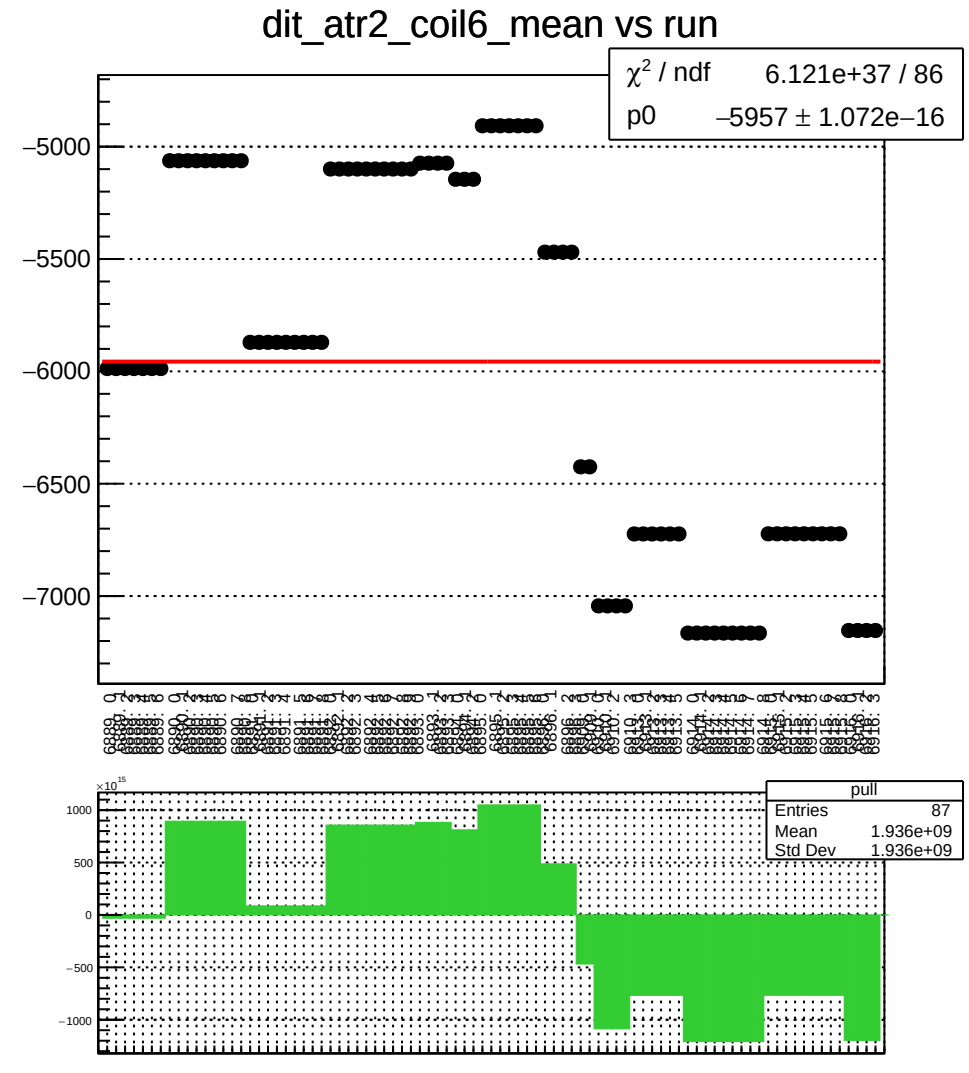

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

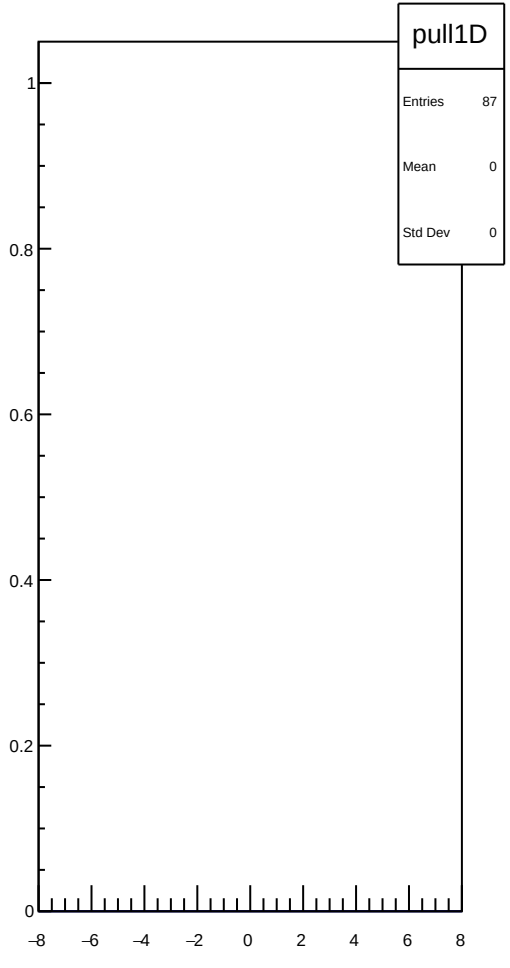

dit_atr1_coil6_err_mean vs run
χ² / ndf 4.864e+34 / 86
p0 133.5 ± 1.072e−16
200
180
160
140
120
pull
Entries 87
Mean 7.336e+08
Std Dev 7.336e+08
×10¹⁵
60
40
20
0
−20

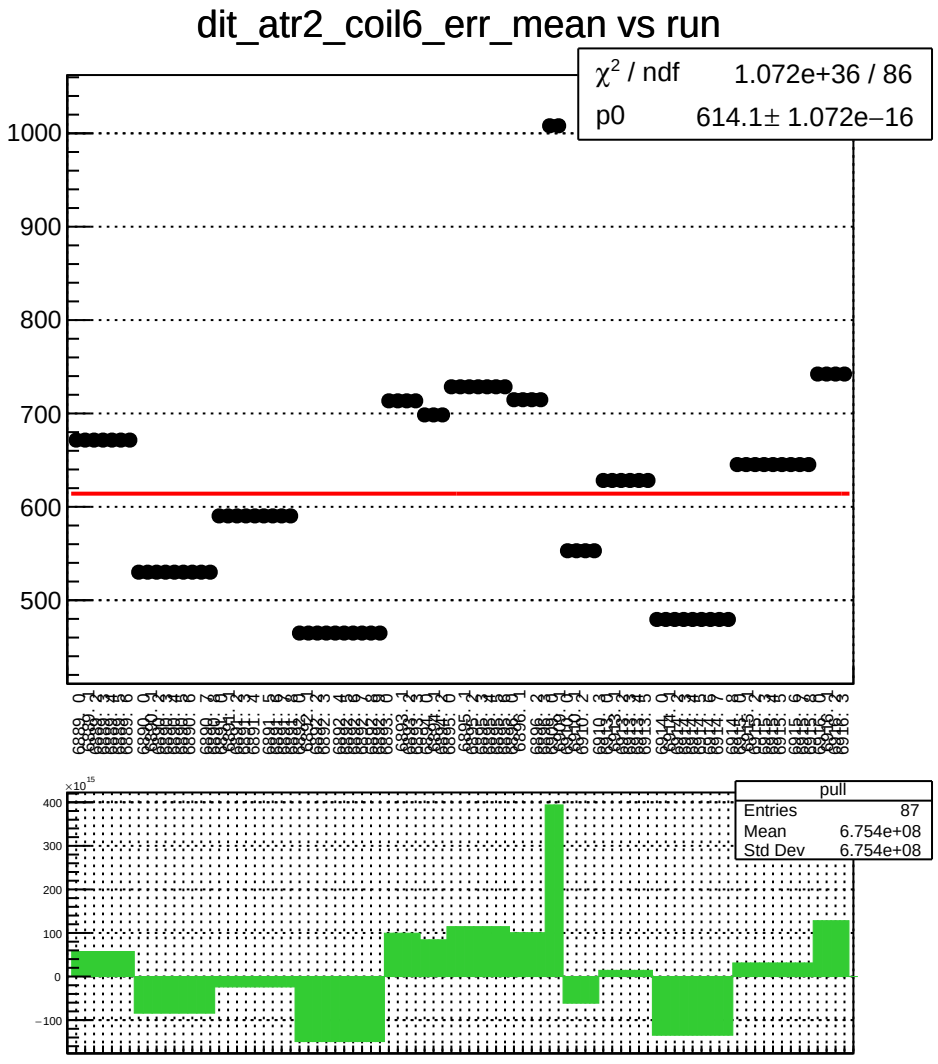

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

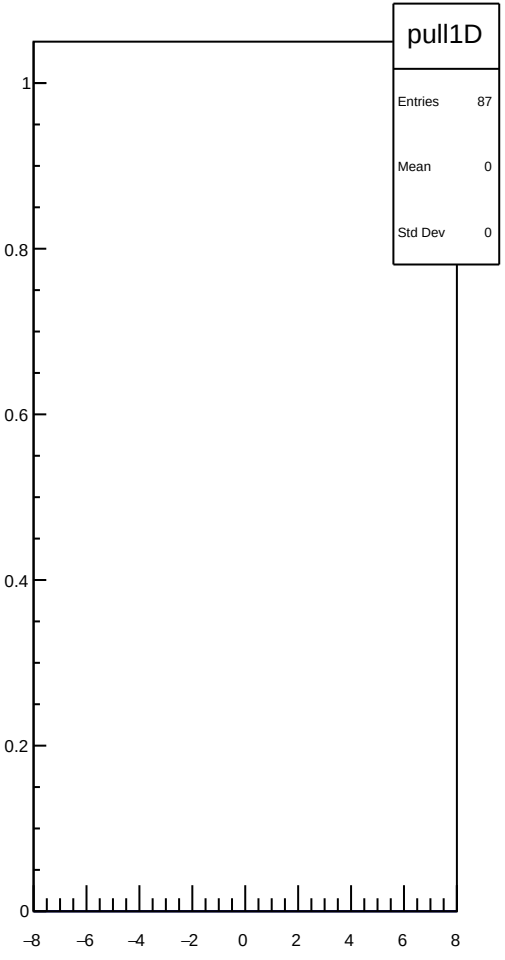

dit_atr1_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09

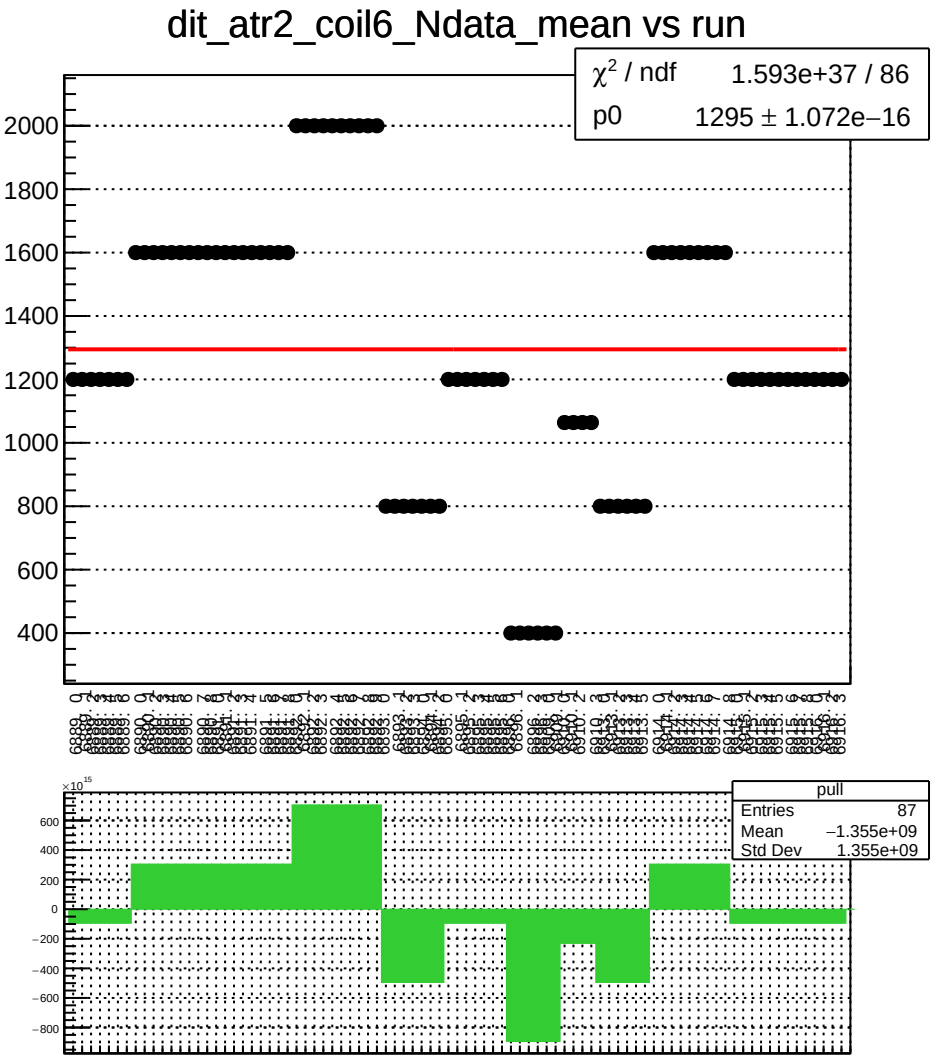

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

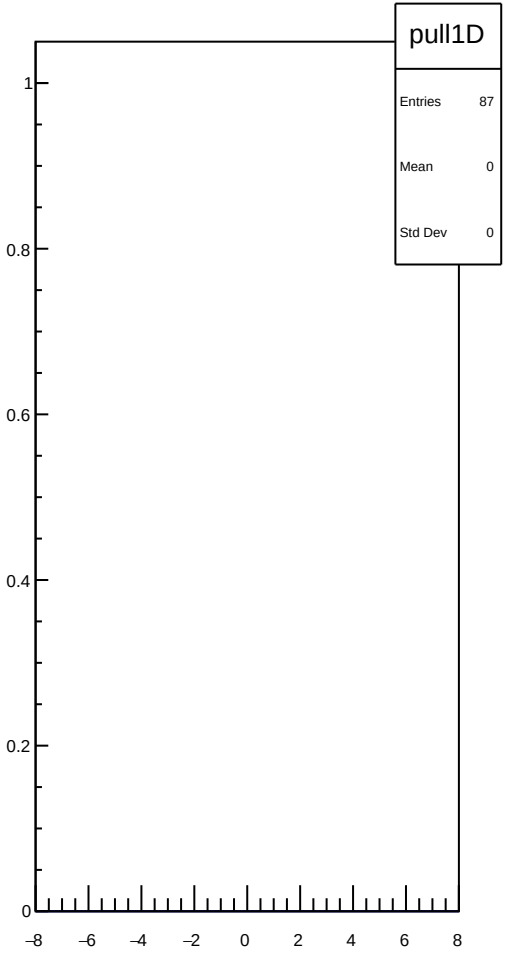

dit_atr2_coil6_mean vs run
χ² / ndf 6.121e+37 / 86
p0 −5957 ± 1.072e−16
−5000
−5500
−6000
−6500
−7000
×10¹⁵
1000
500
0
−500
−1000
pull
Entries 87
Mean 1.936e+09
Std Dev 1.936e+09

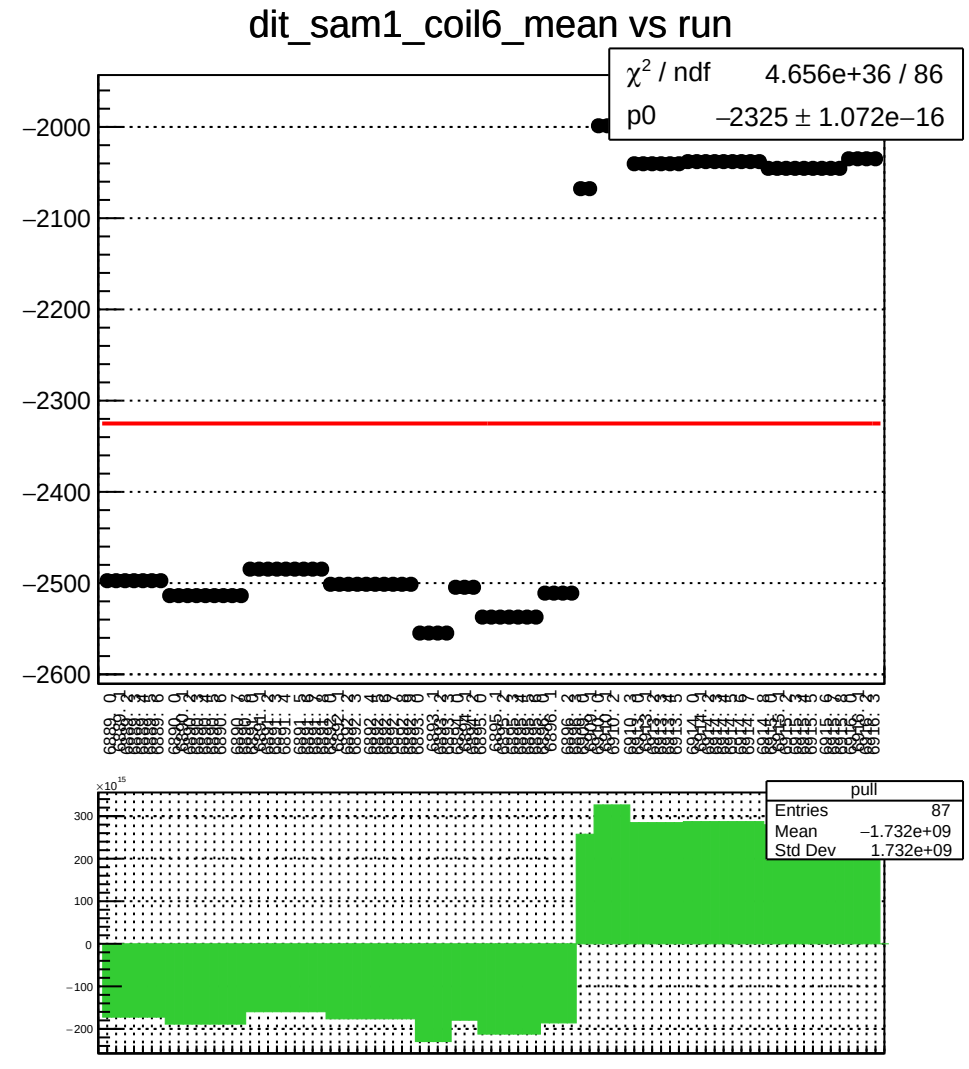

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

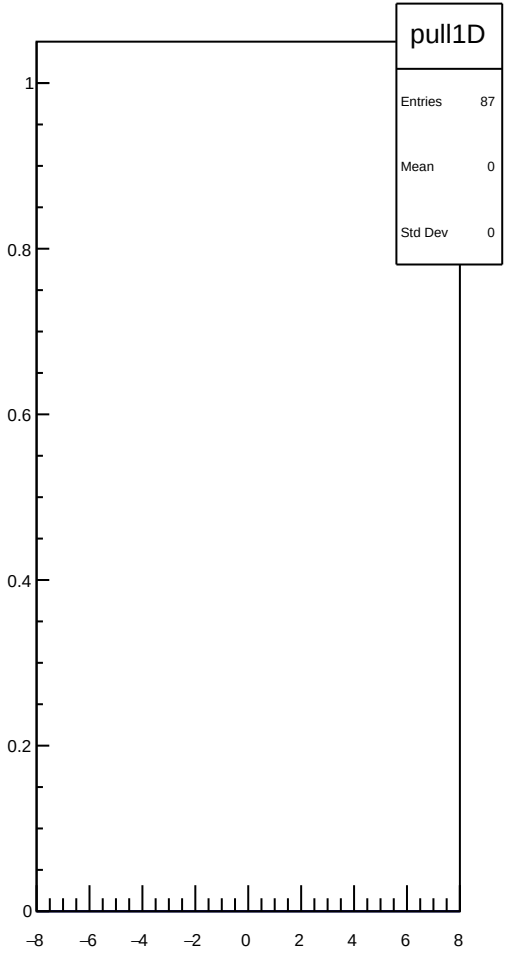

dit_atr2_coil6_err_mean vs run
χ² / ndf 1.072e+36 / 86
p0 614.1± 1.072e−16
1000
900
800
700
600
500
pull
Entries 87
Mean 6.754e+08
Std Dev 6.754e+08
×10¹⁵
400
300
200
100
0
−100

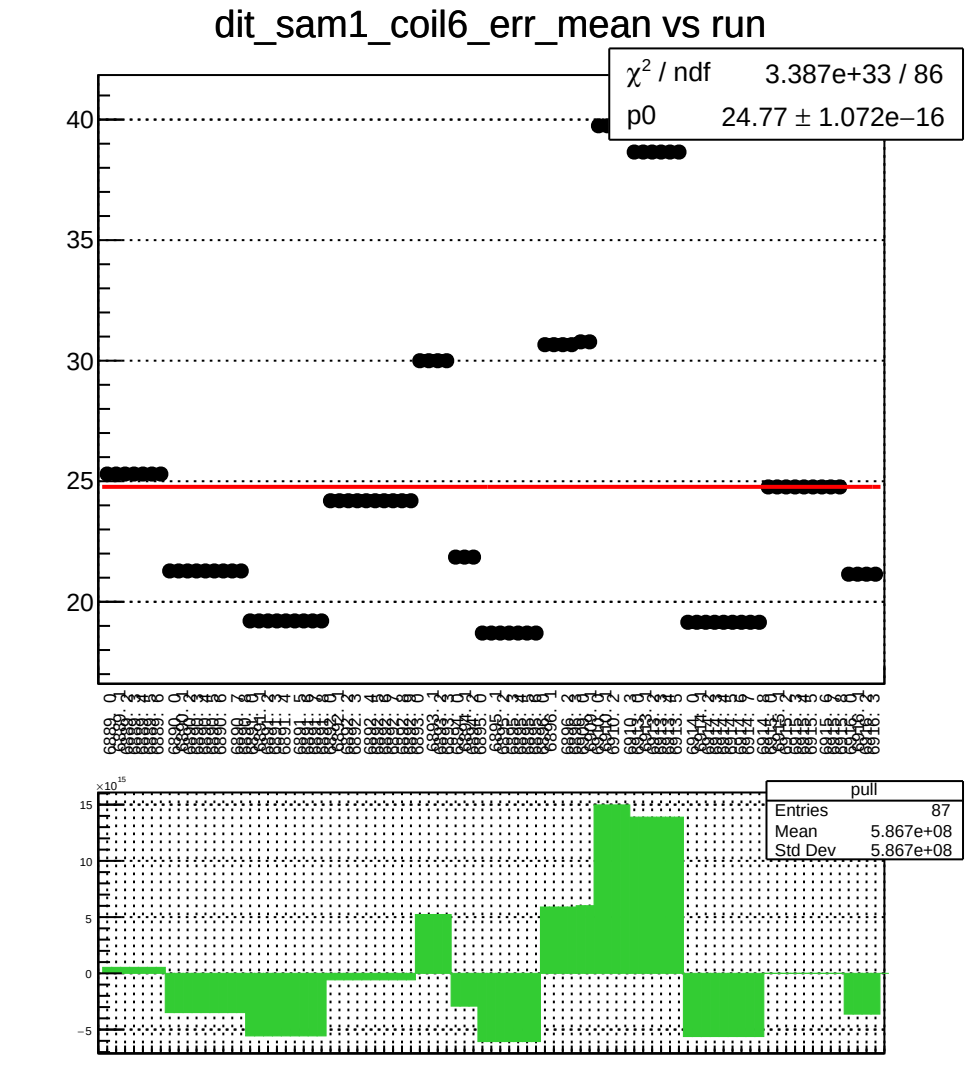

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

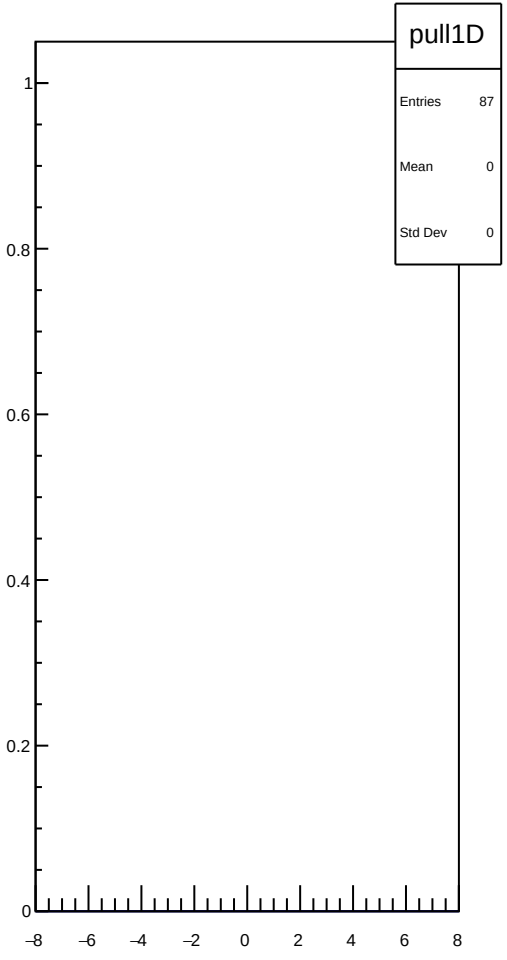

dit_atr2_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800

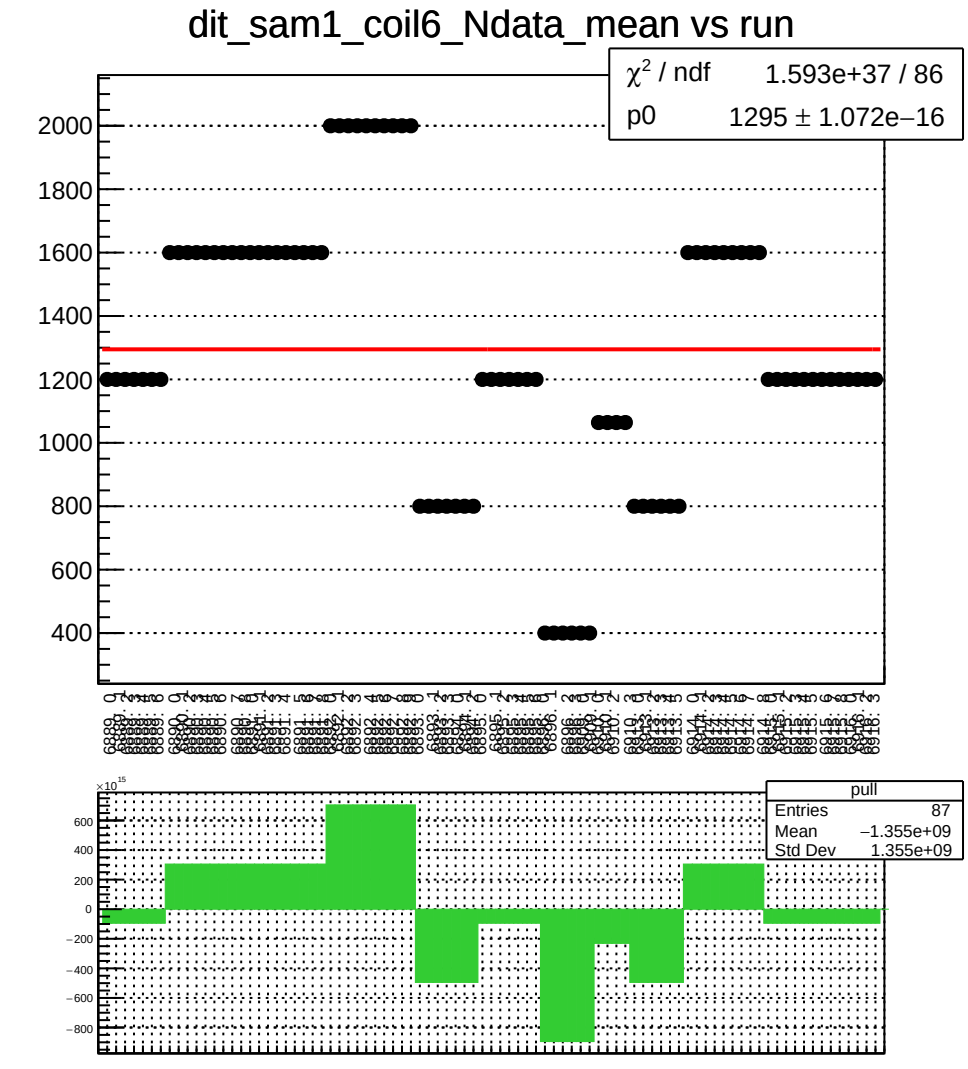

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

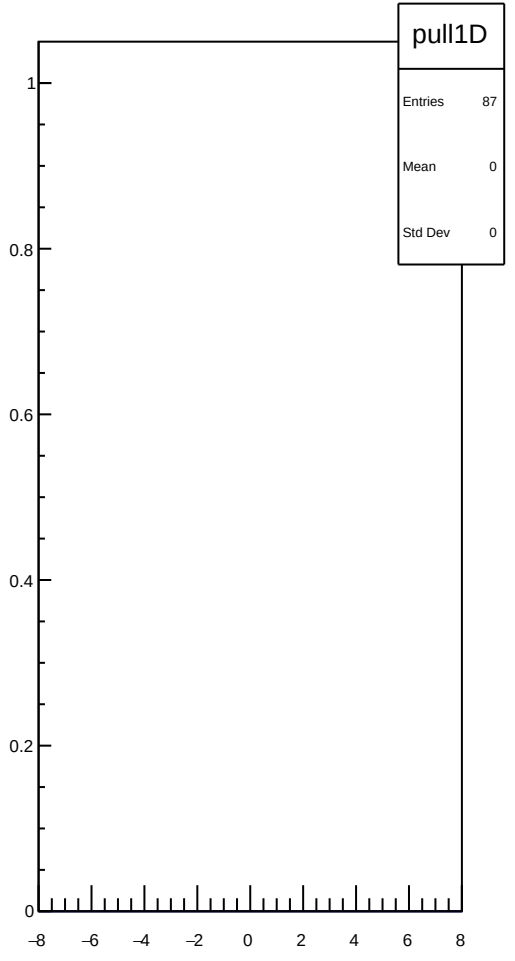

dit_sam1_coil6_mean vs run
χ² / ndf 4.656e+36 / 86
p0 −2325 ± 1.072e−16
−2000
−2100
−2200
−2300
−2400
−2500
−2600
pull
Entries 87
Mean −1.732e+09
Std Dev 1.732e+09
×10¹⁵
300
200
100
0
−100
−200

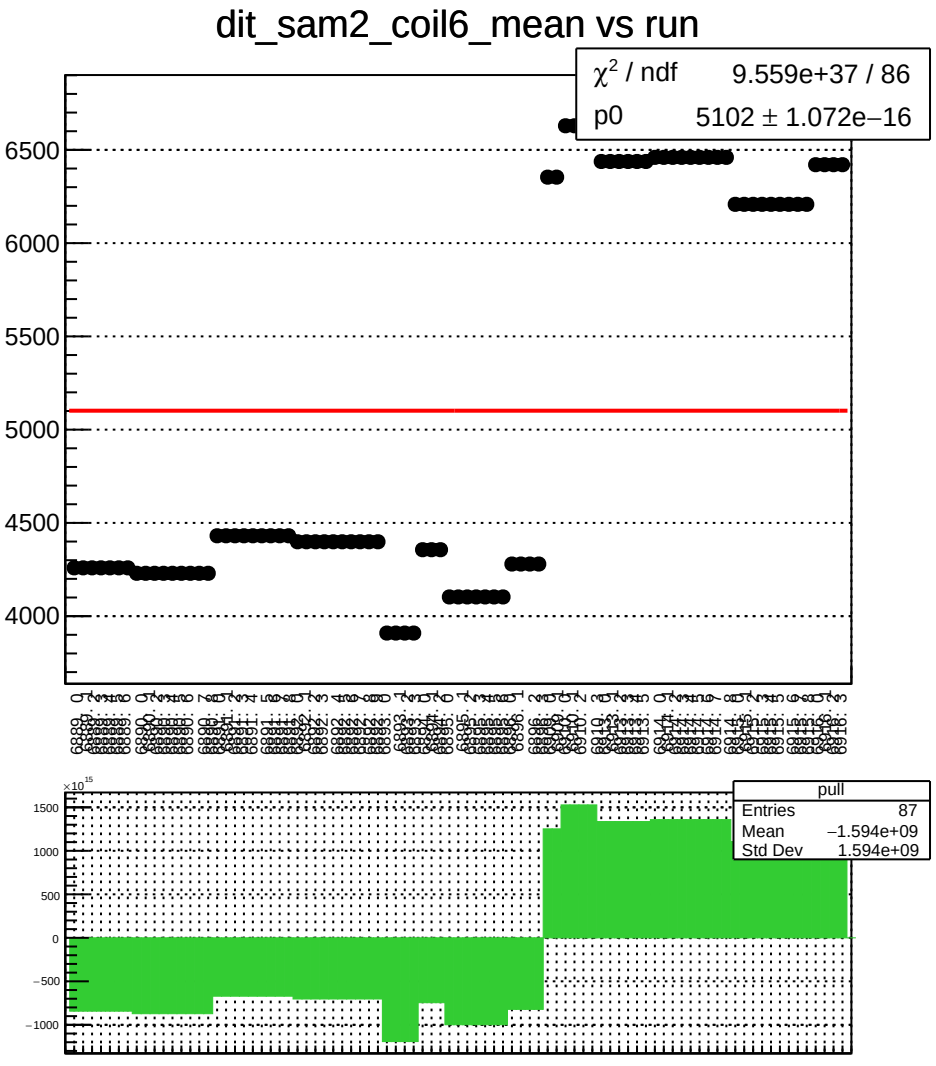

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

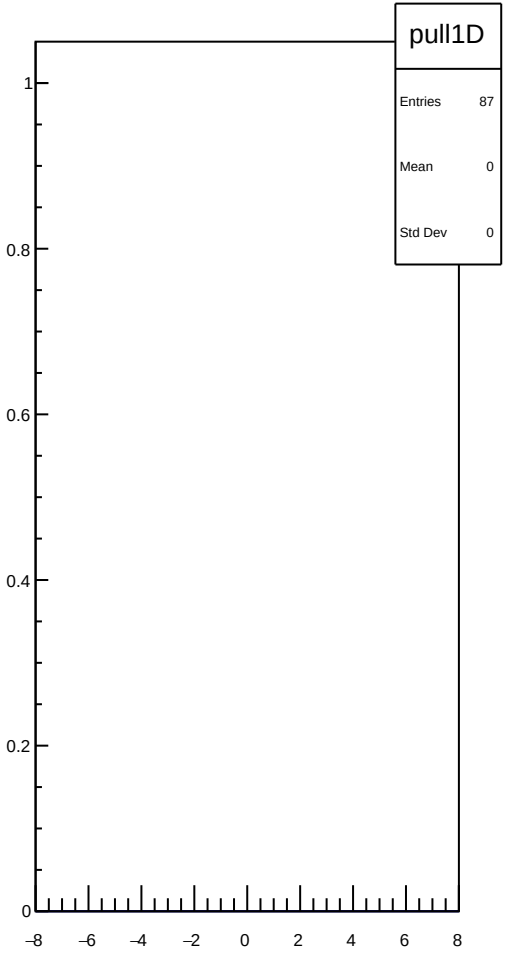

dit_sam1_coil6_err_mean vs run
χ² / ndf 3.387e+33 / 86
p0 24.77 ± 1.072e−16
40
35
30
25
20
pull
Entries 87
Mean 5.867e+08
Std Dev 5.867e+08
×10¹⁵
15
10
5
0
−5

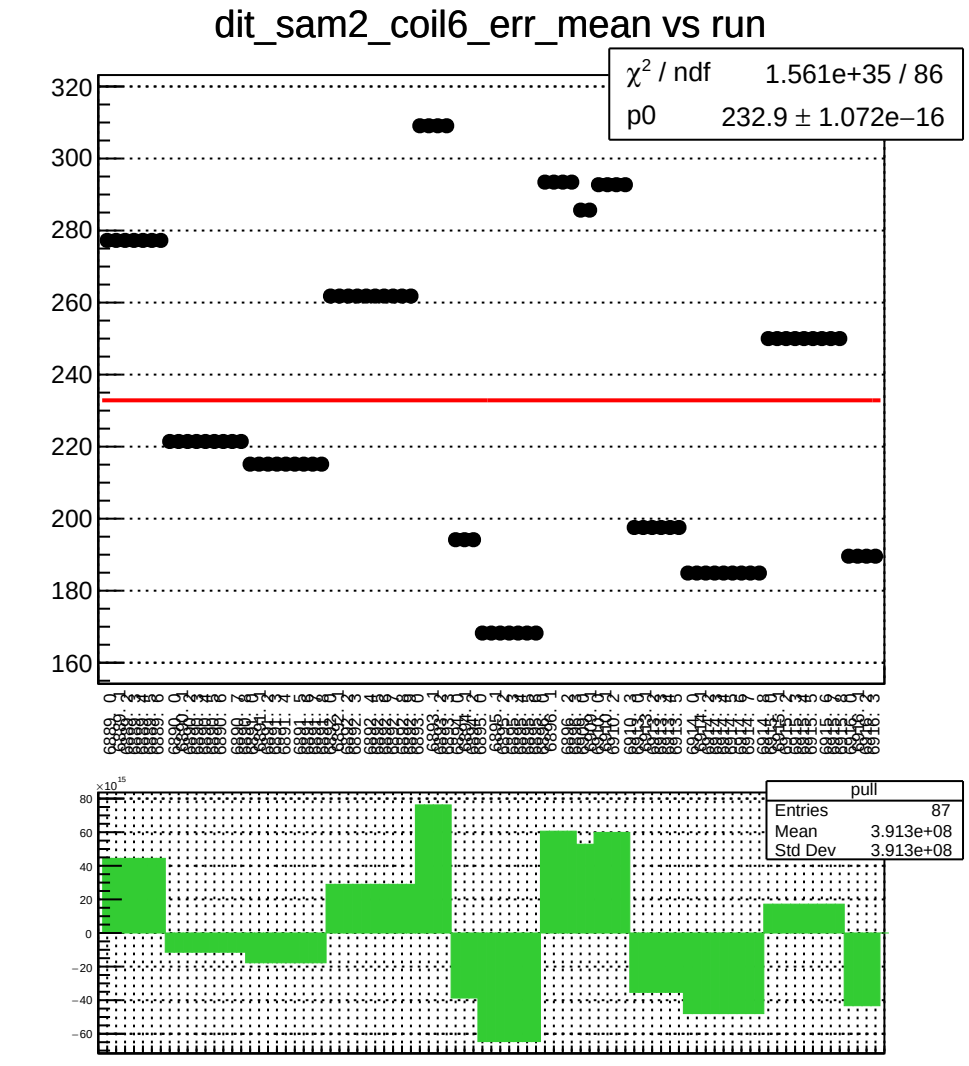

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

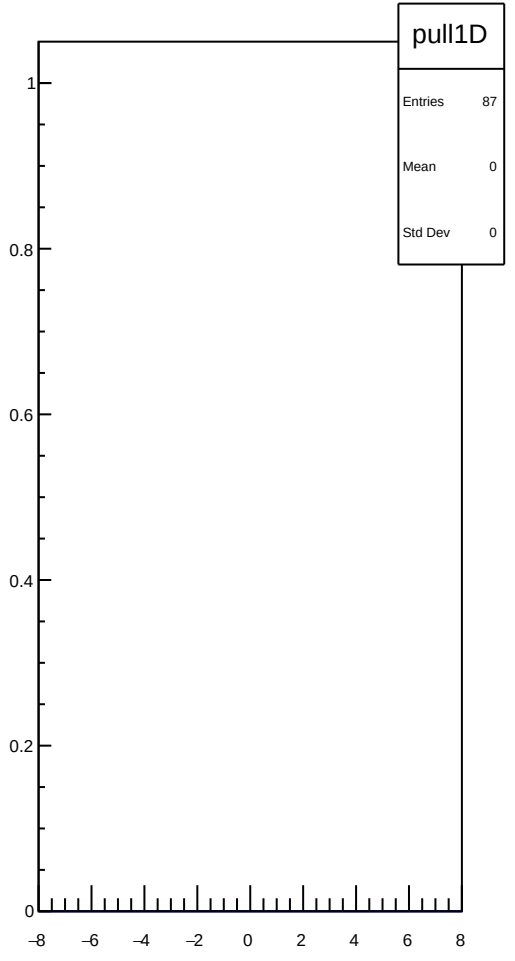

dit_sam1_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800

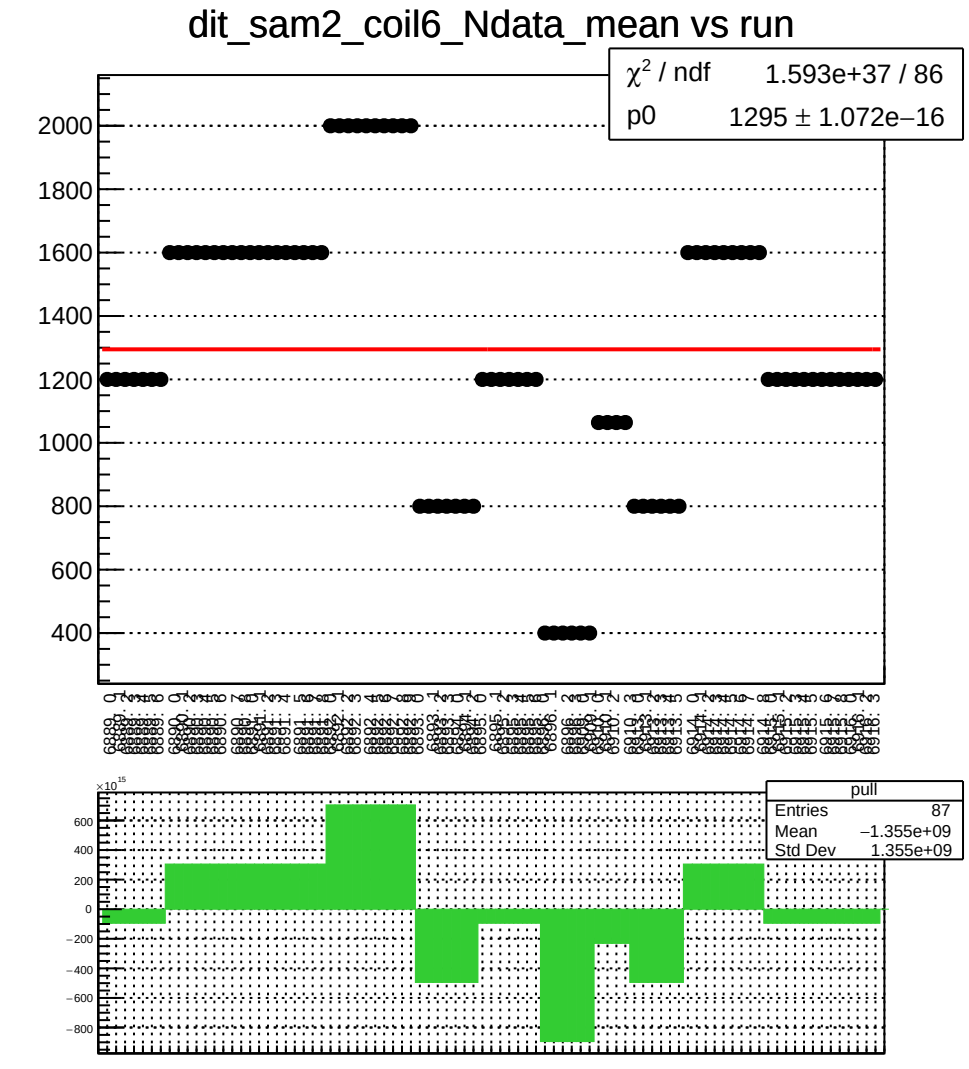

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

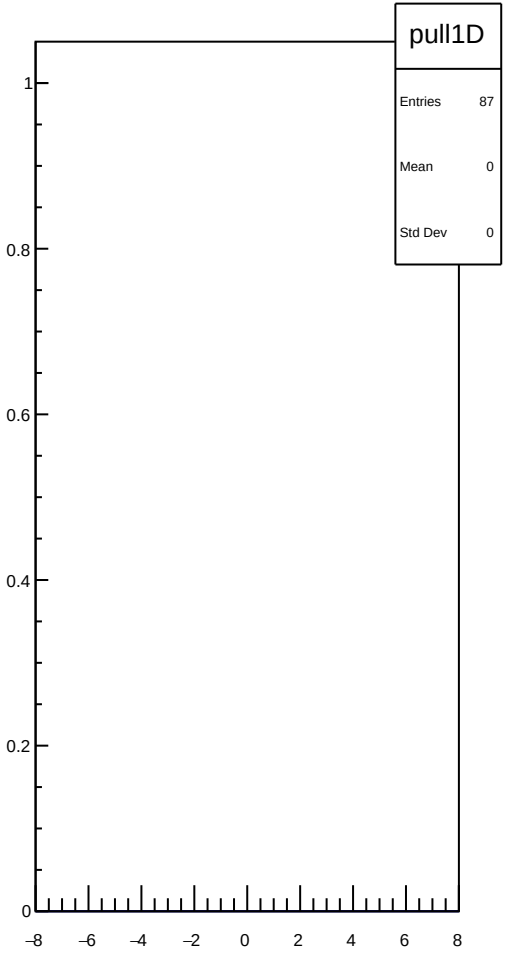

dit_sam2_coil6_mean vs run
χ² / ndf 9.559e+37 / 86
p0 5102 ± 1.072e−16
6500
6000
5500
5000
4500
4000
×10¹⁵
1500
1000
500
0
−500
−1000
pull
Entries 87
Mean −1.594e+09
Std Dev 1.594e+09

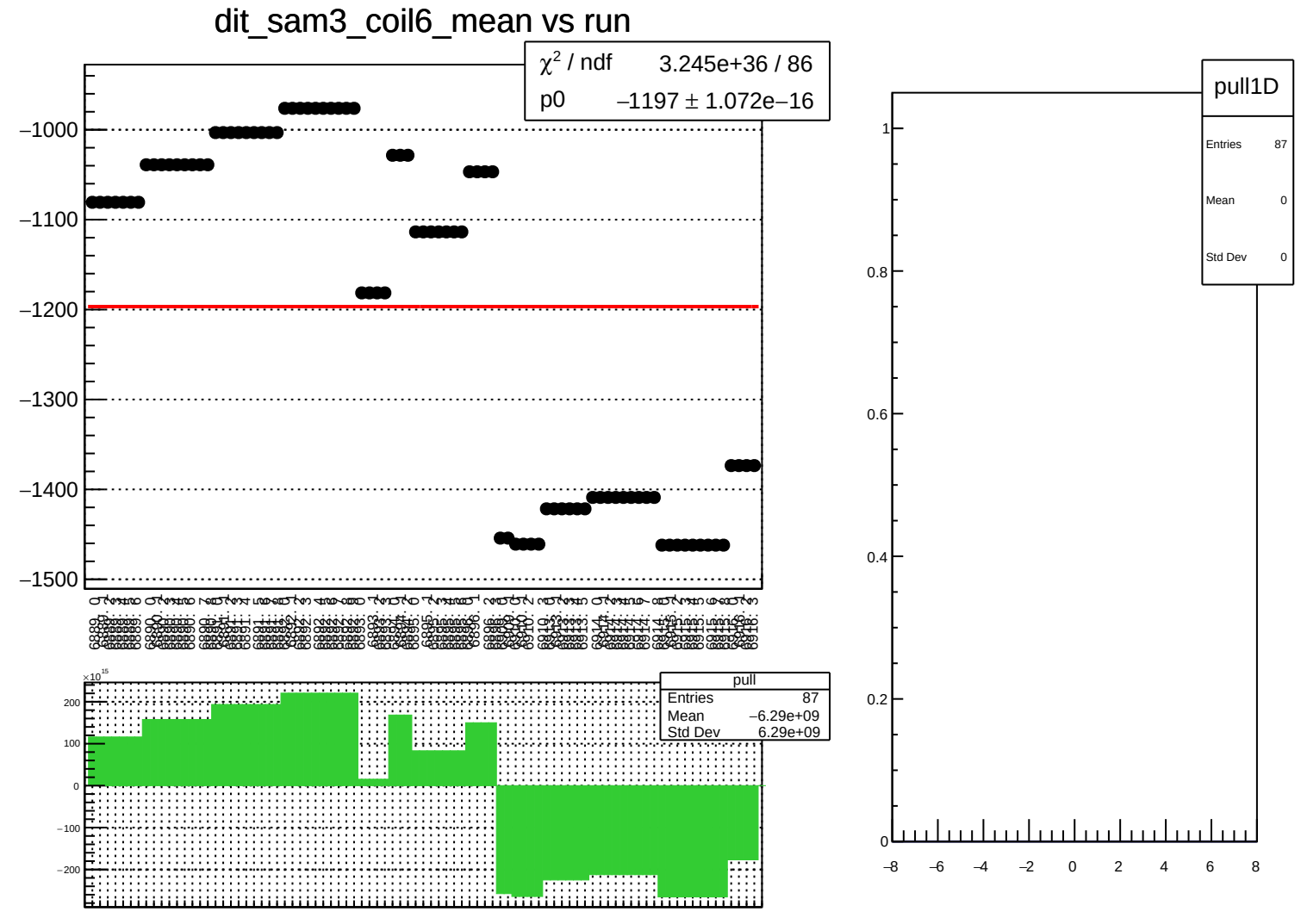

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

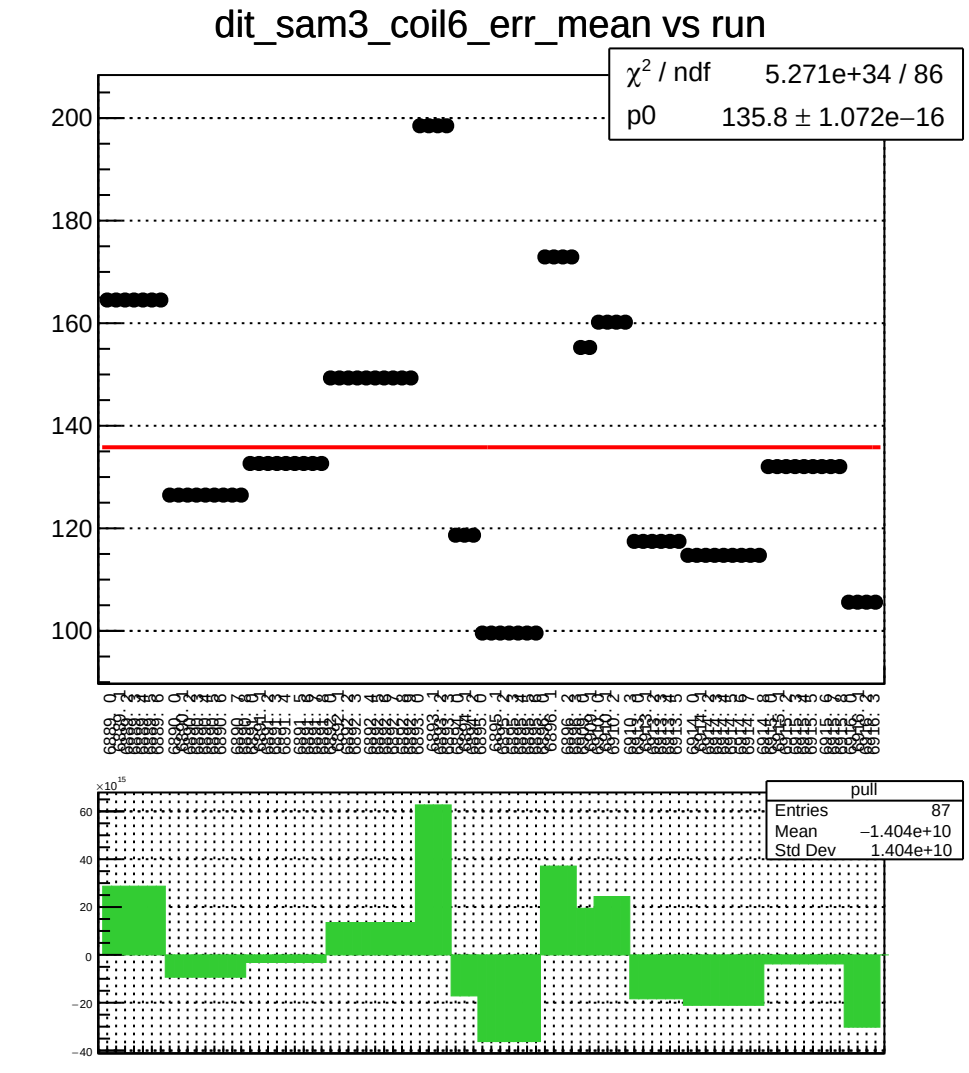

dit_sam2_coil6_err_mean vs run
χ² / ndf 1.561e+35 / 86
p0 232.9 ± 1.072e−16
320
300
280
260
240
220
200
180
160
pull
Entries 87
Mean 3.913e+08
Std Dev 3.913e+08
×10¹⁵
80
60
40
20
0
−20
−40
−60

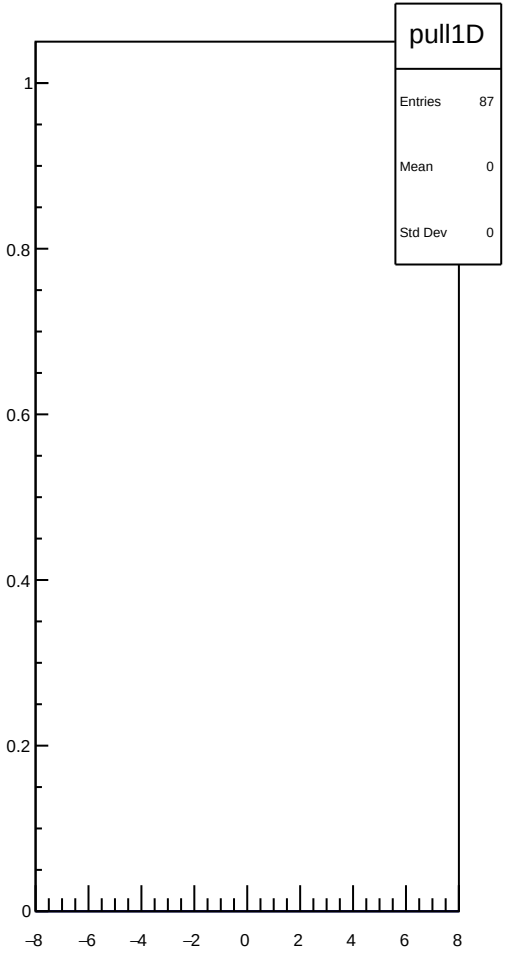

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

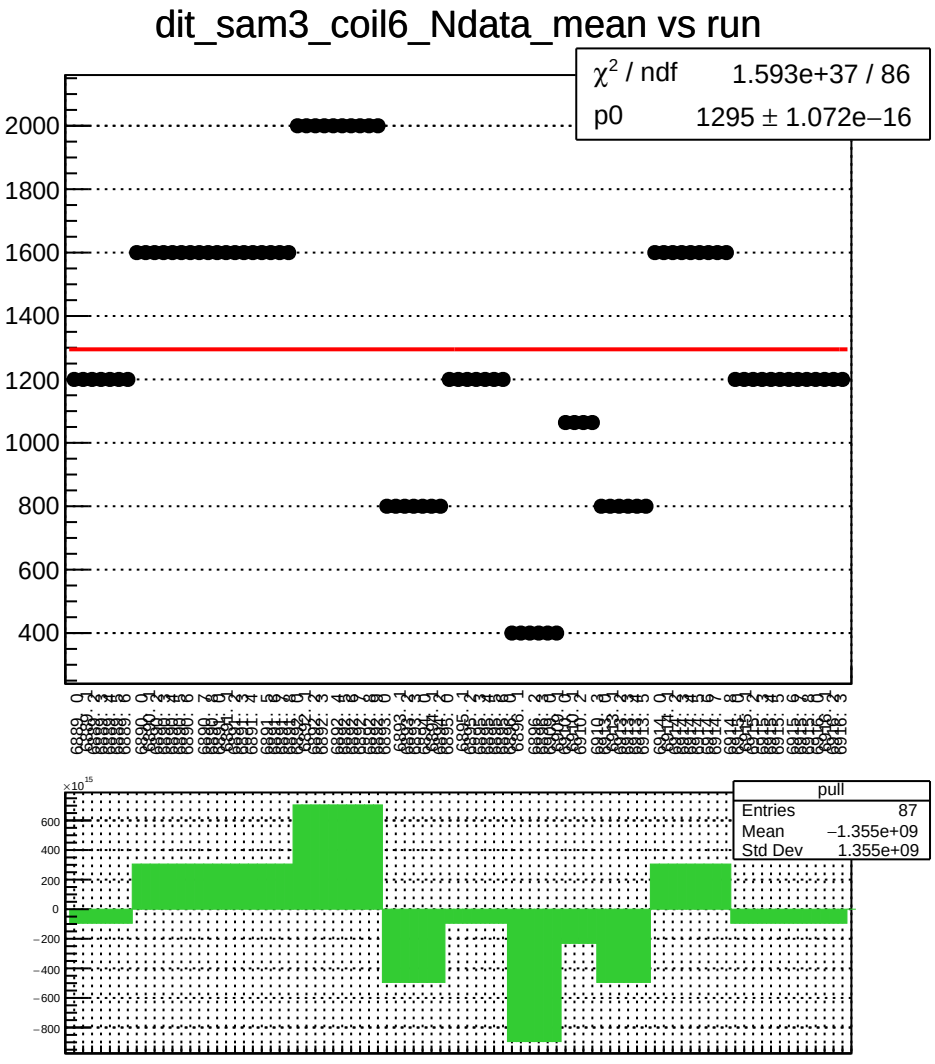

dit_sam2_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09

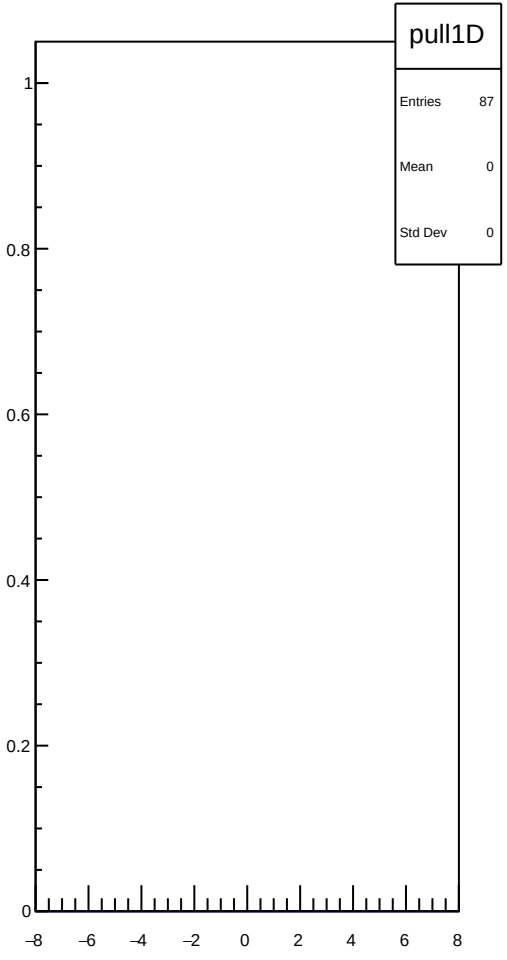

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

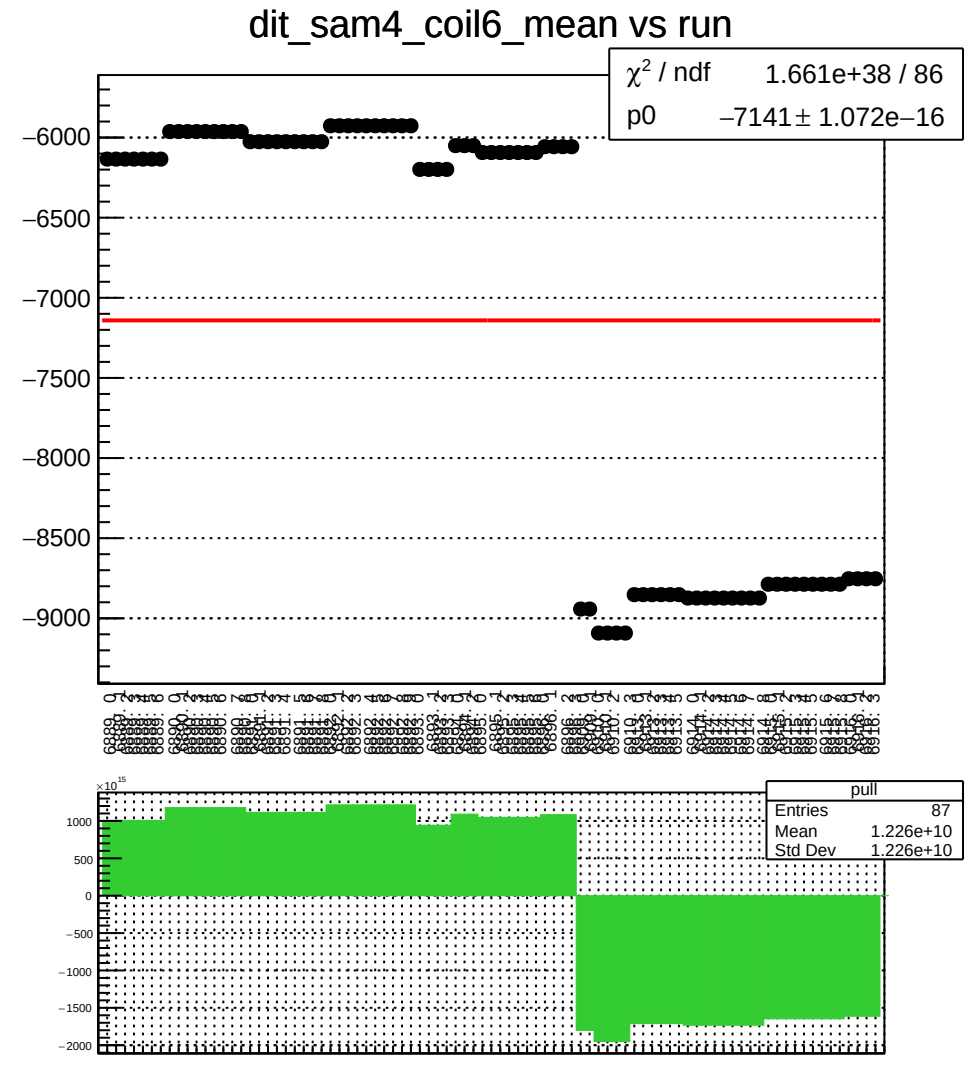

dit_sam3_coil6_mean vs run
χ² / ndf 3.245e+36 / 86
p0 –1197 ± 1.072e–16
–1000
–1100
–1200
–1300
–1400
–1500
pull
Entries 87
Mean –6.29e+09
Std Dev 6.29e+09
×10¹⁵
200
100
0
–100
–200
pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

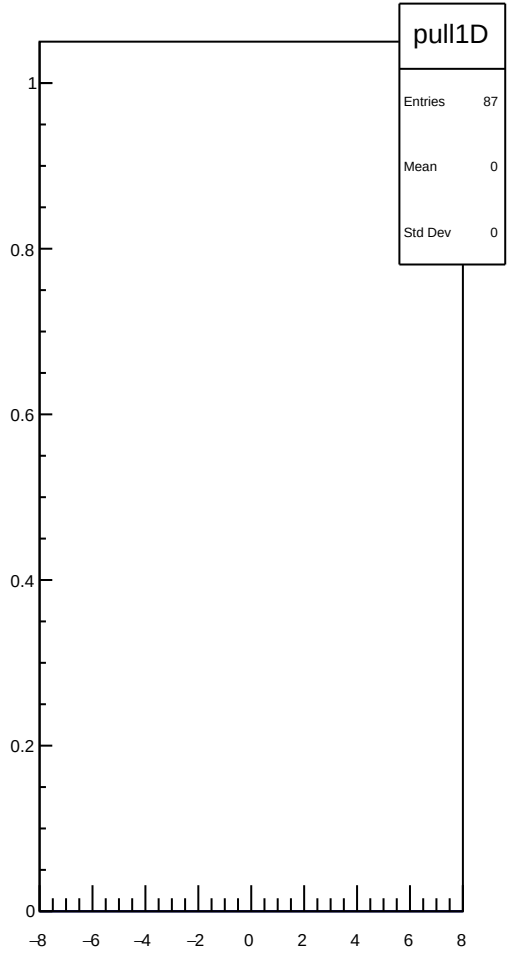

dit_sam3_coil6_err_mean vs run
χ² / ndf 5.271e+34 / 86
p0 135.8 ± 1.072e−16
200
180
160
140
120
100
pull
Entries 87
Mean −1.404e+10
Std Dev 1.404e+10
×10¹⁵
60
40
20
0
−20
−40

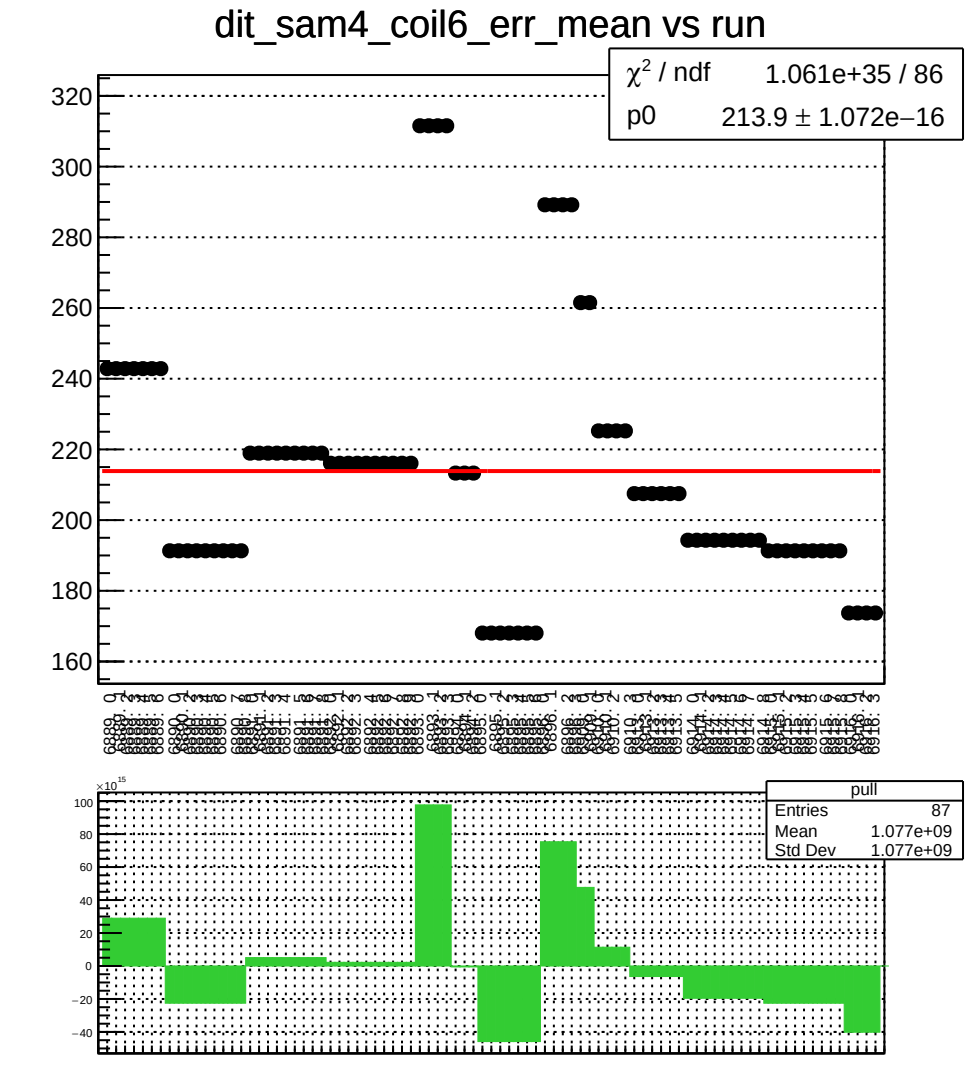

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

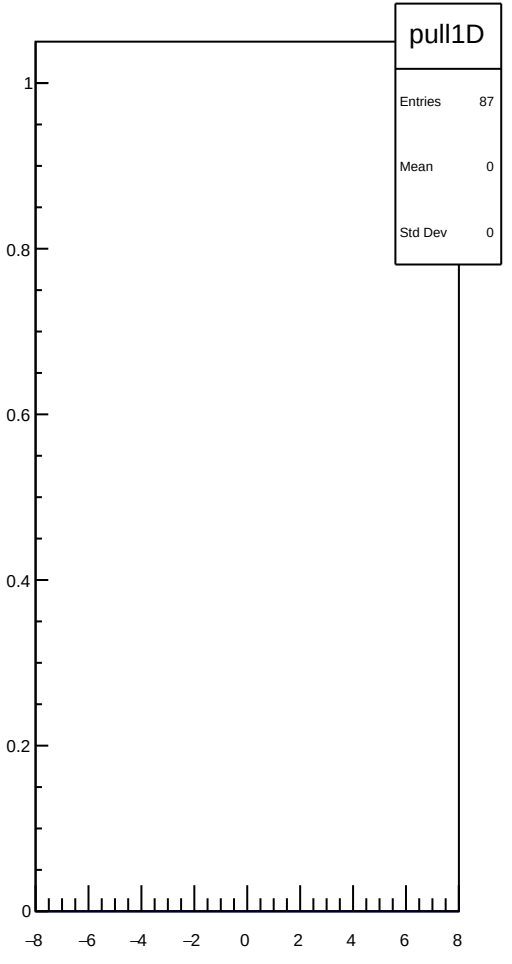

dit_sam3_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800

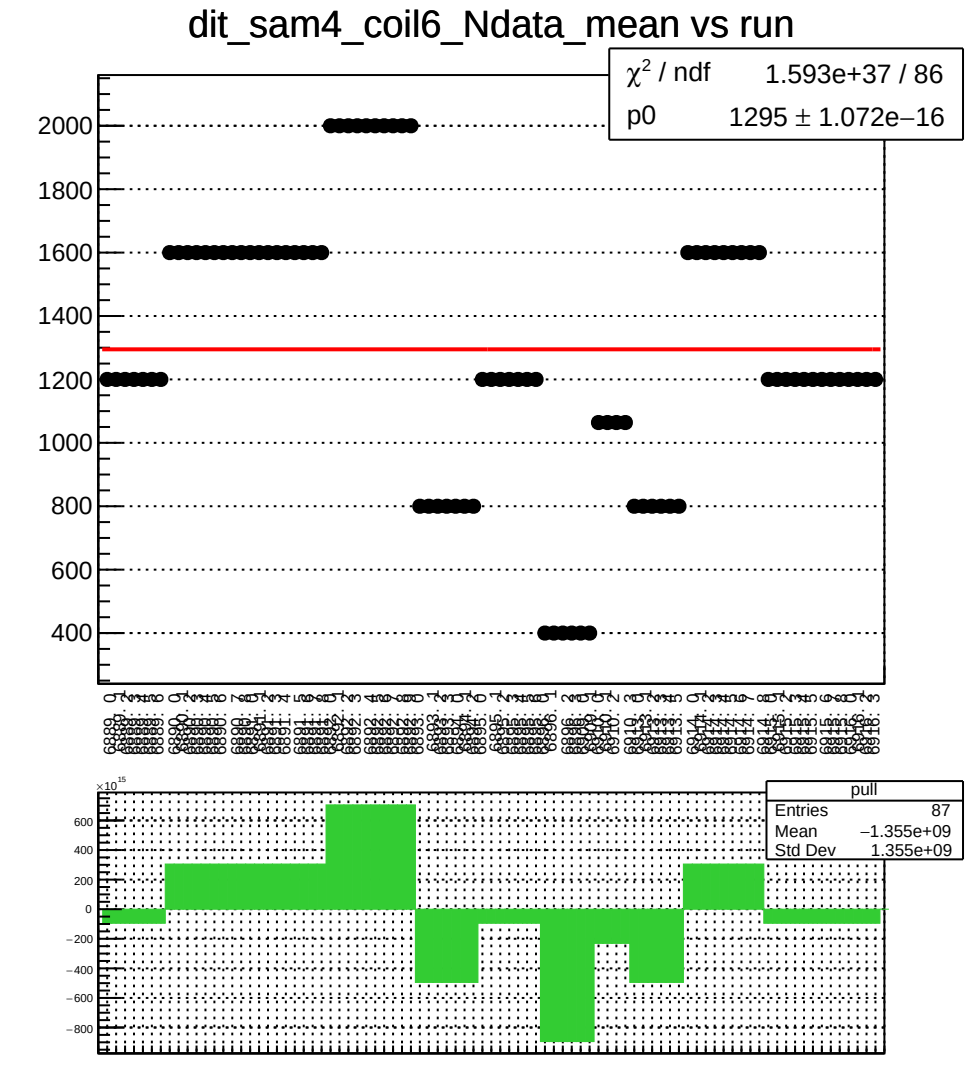

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

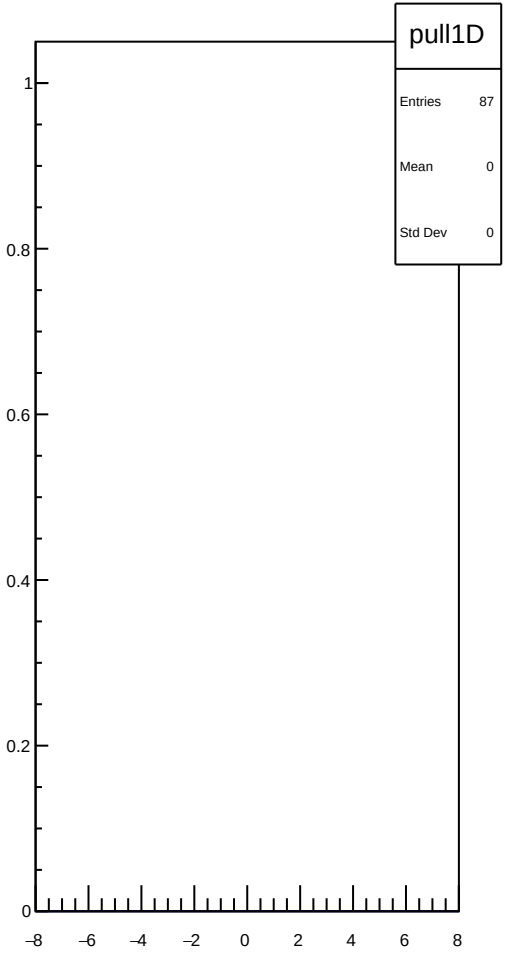

dit_sam4_coil6_mean vs run
χ² / ndf 1.661e+38 / 86
p0 −7141 ± 1.072e−16
−6000
−6500
−7000
−7500
−8000
−8500
−9000
pull
Entries 87
Mean 1.226e+10
Std Dev 1.226e+10
×10¹⁵
1000
500
0
−500
−1000
−1500
−2000

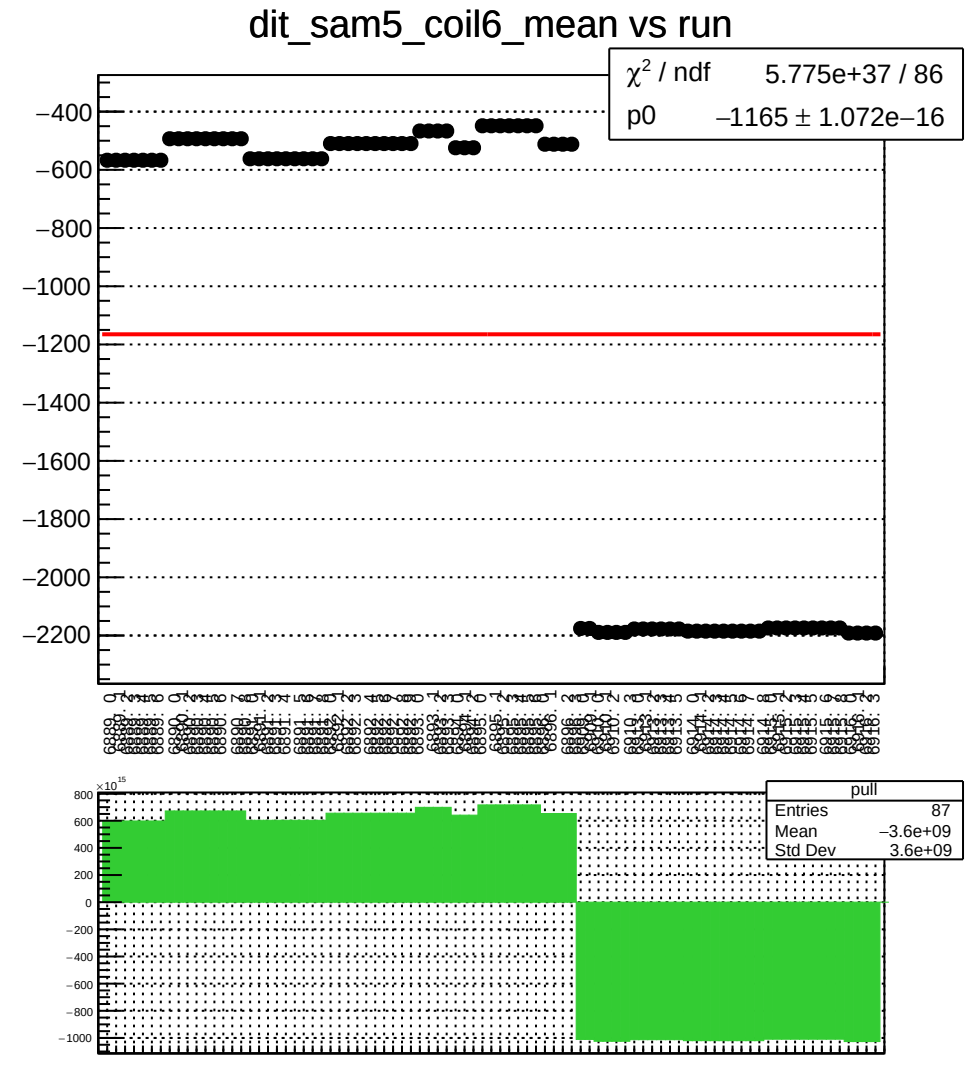

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

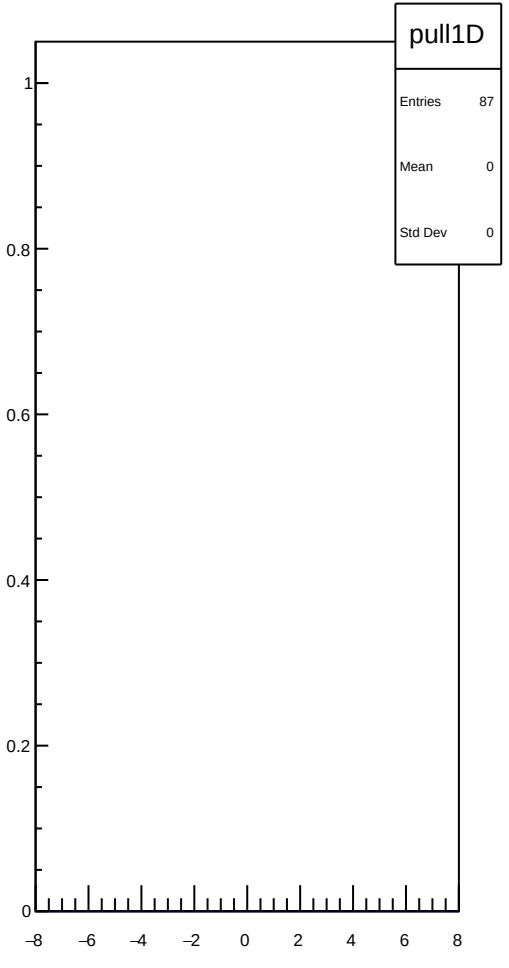

dit_sam4_coil6_err_mean vs run
χ² / ndf 1.061e+35 / 86
p0 213.9 ± 1.072e−16
320
300
280
260
240
220
200
180
160
pull
Entries 87
Mean 1.077e+09
Std Dev 1.077e+09
×10¹⁵
100
80
60
40
20
0
−20
−40

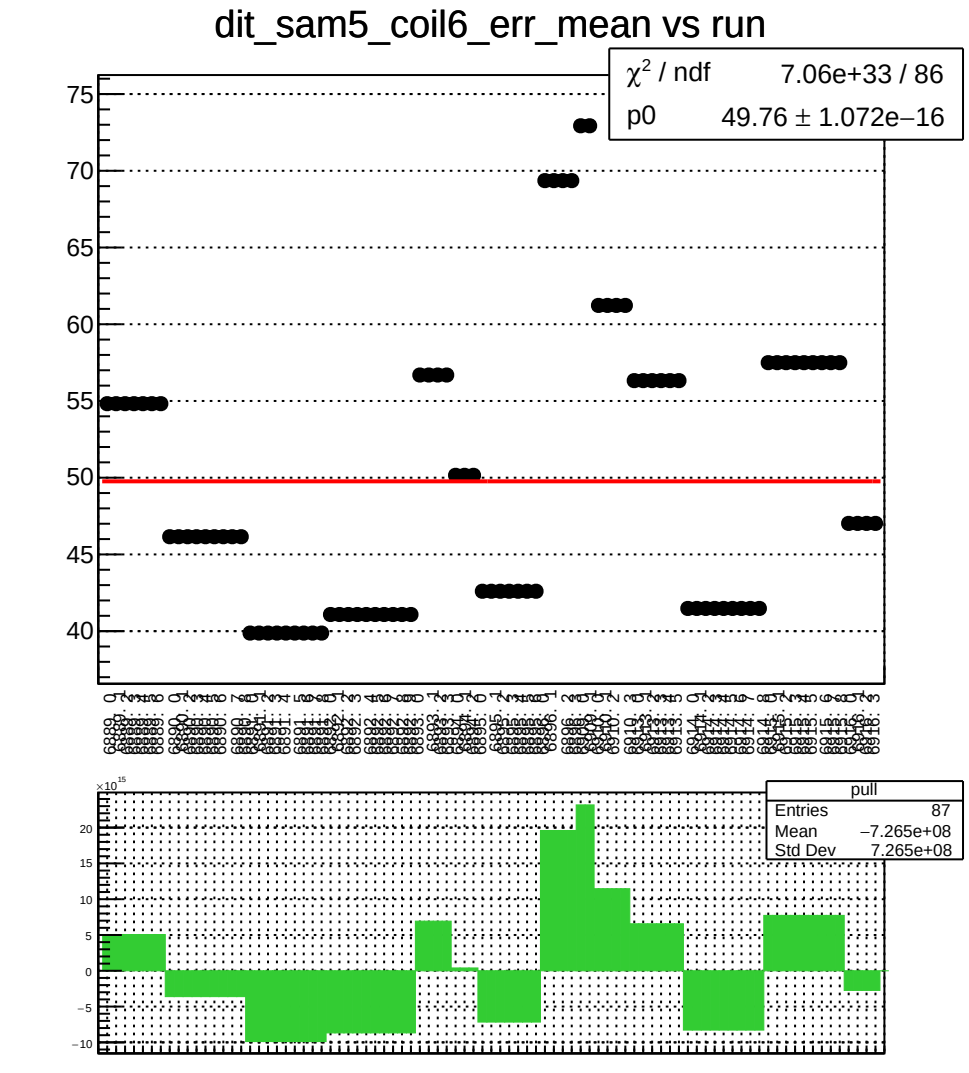

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

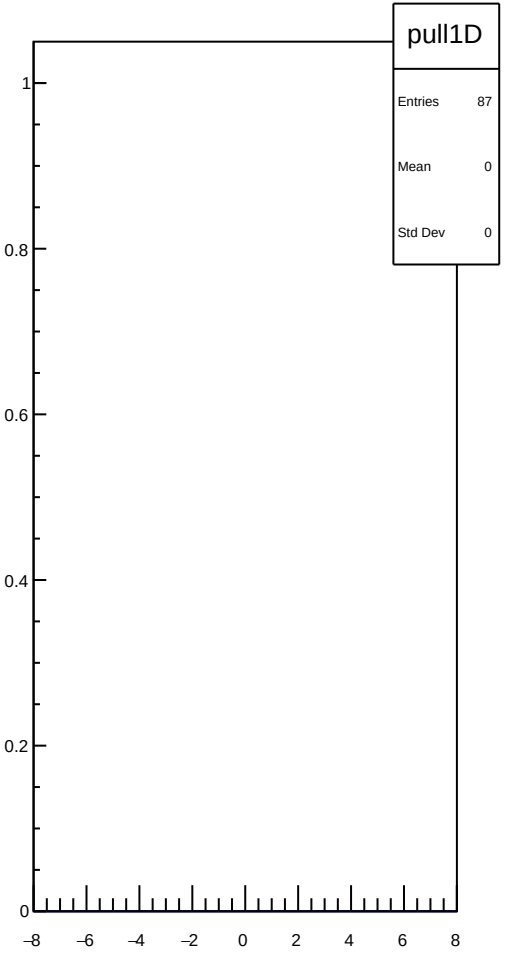

dit_sam4_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09

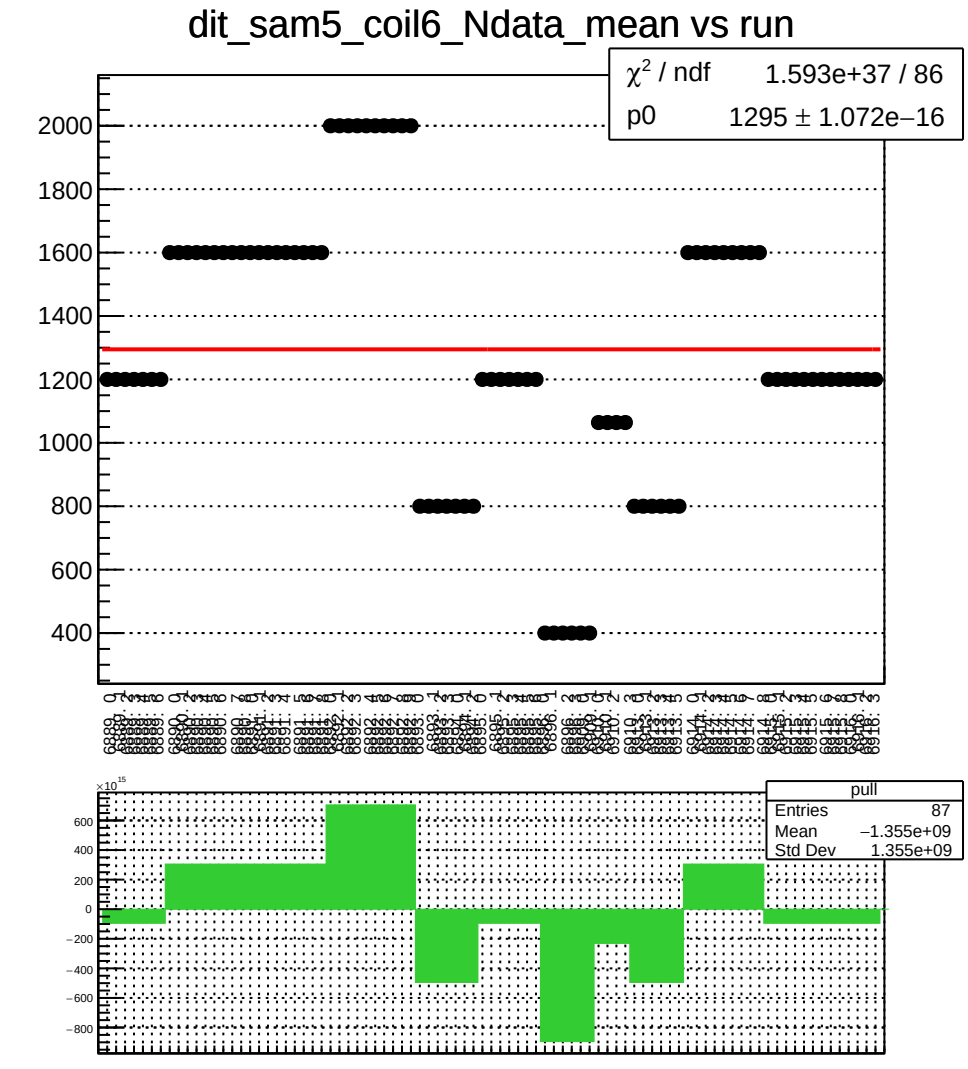

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

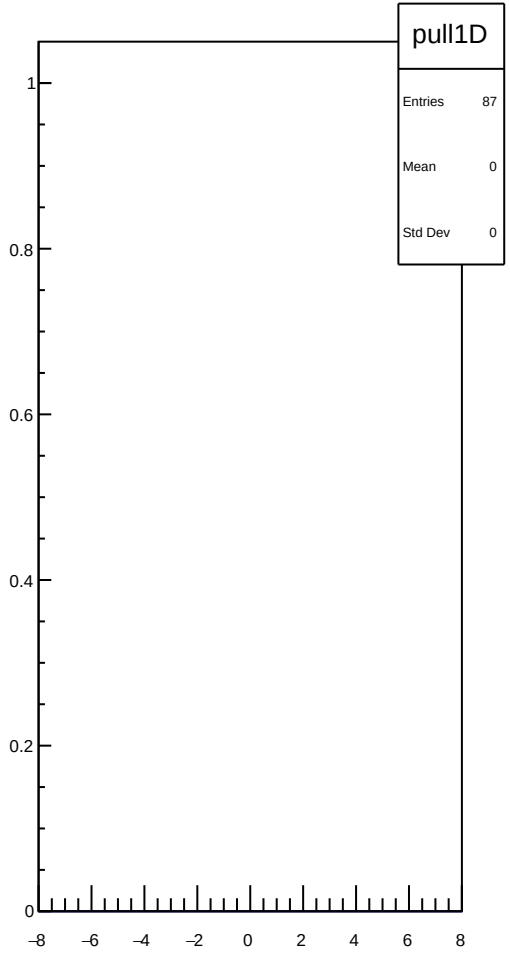

dit_sam5_coil6_mean vs run
χ² / ndf 5.775e+37 / 86
p0 −1165 ± 1.072e−16
−400
−600
−800
−1000
−1200
−1400
−1600
−1800
−2000
−2200
pull
Entries 87
Mean −3.6e+09
Std Dev 3.6e+09
×10¹⁵
800
600
400
200
0
−200
−400
−600
−800
−1000

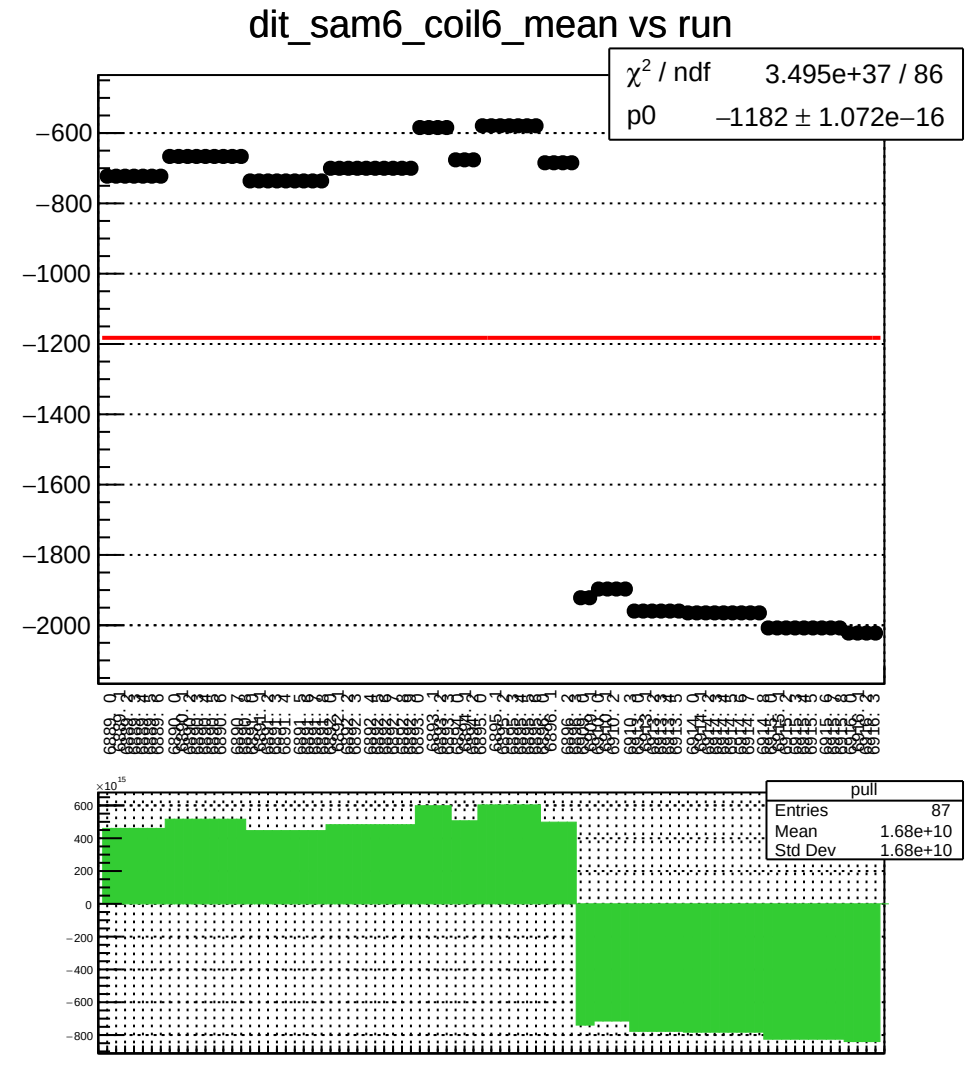

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

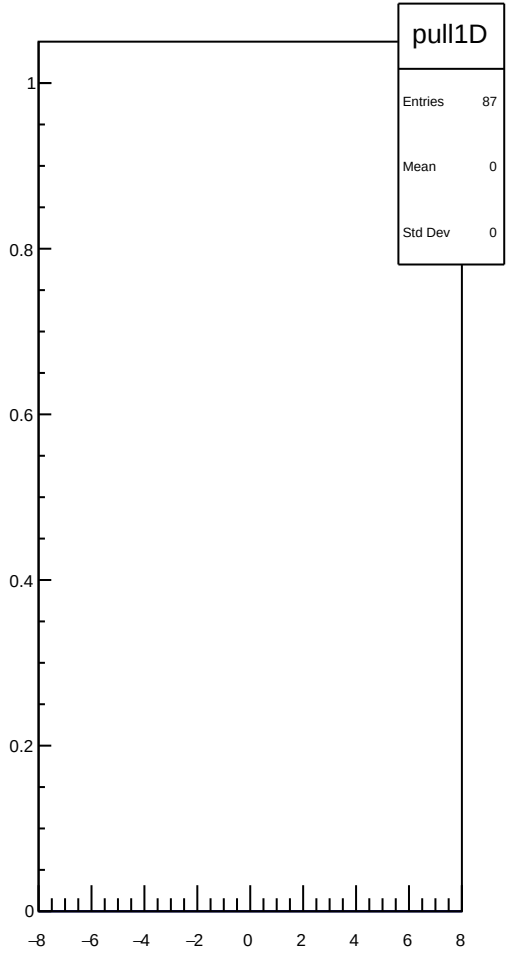

dit_sam5_coil6_err_mean vs run
χ² / ndf 7.06e+33 / 86
p0 49.76 ± 1.072e−16
pull
Entries 87
Mean −7.265e+08
Std Dev 7.265e+08
×10¹⁵

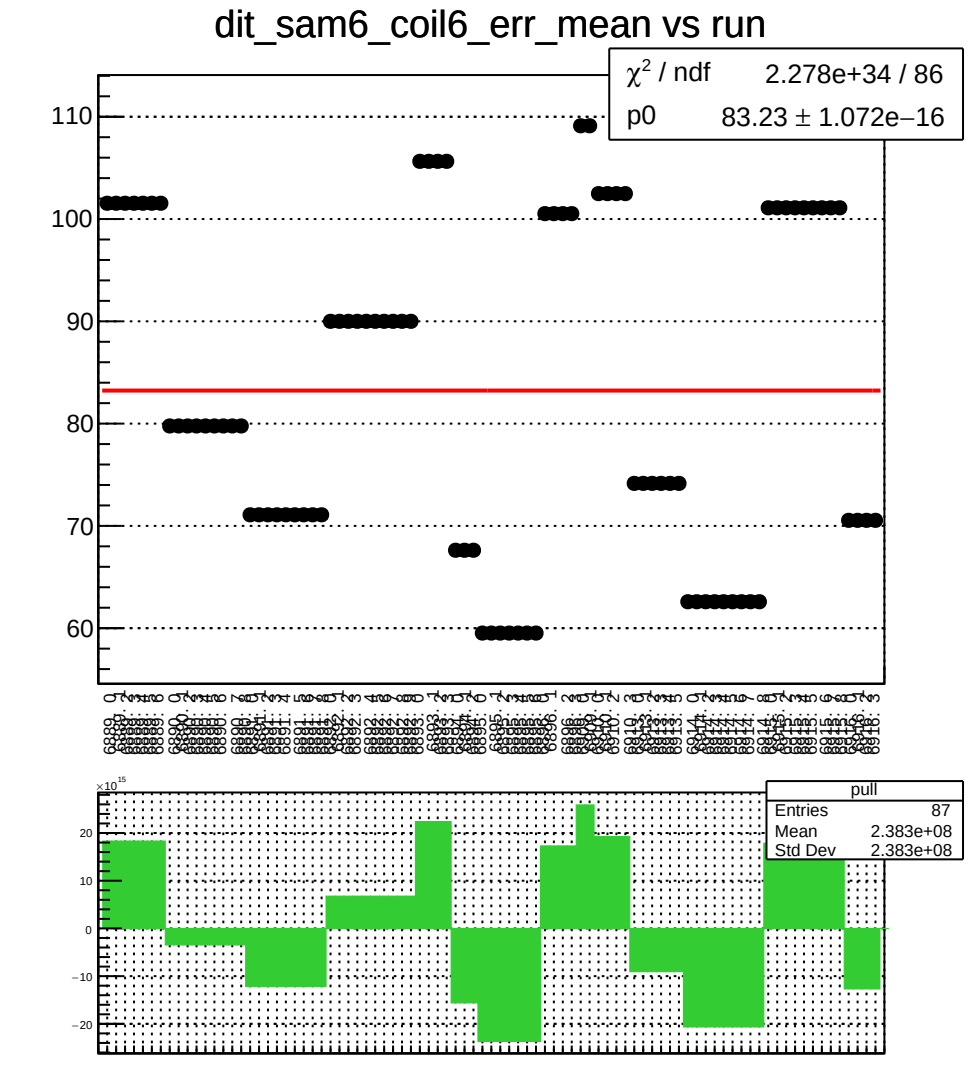

pull1D
Entries 87
Mean 0
Std Dev 0

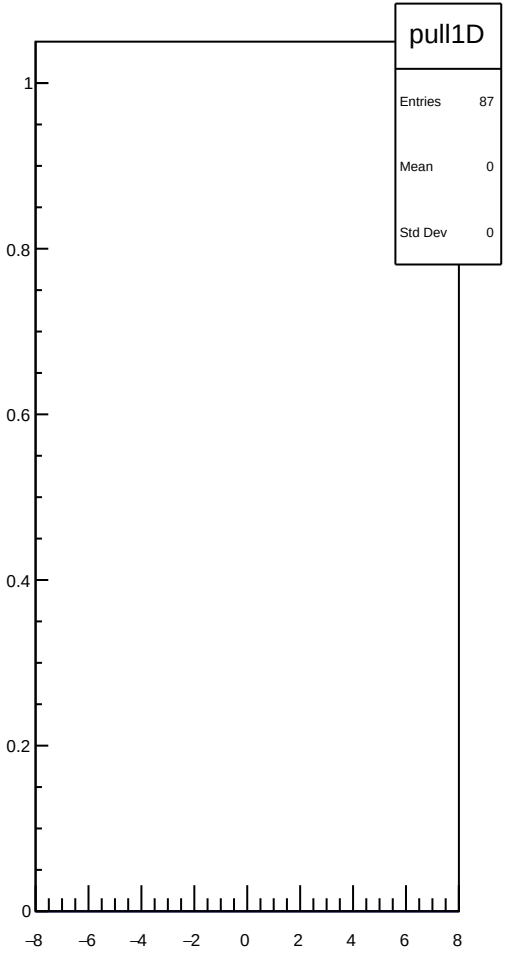

dit_sam5_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09

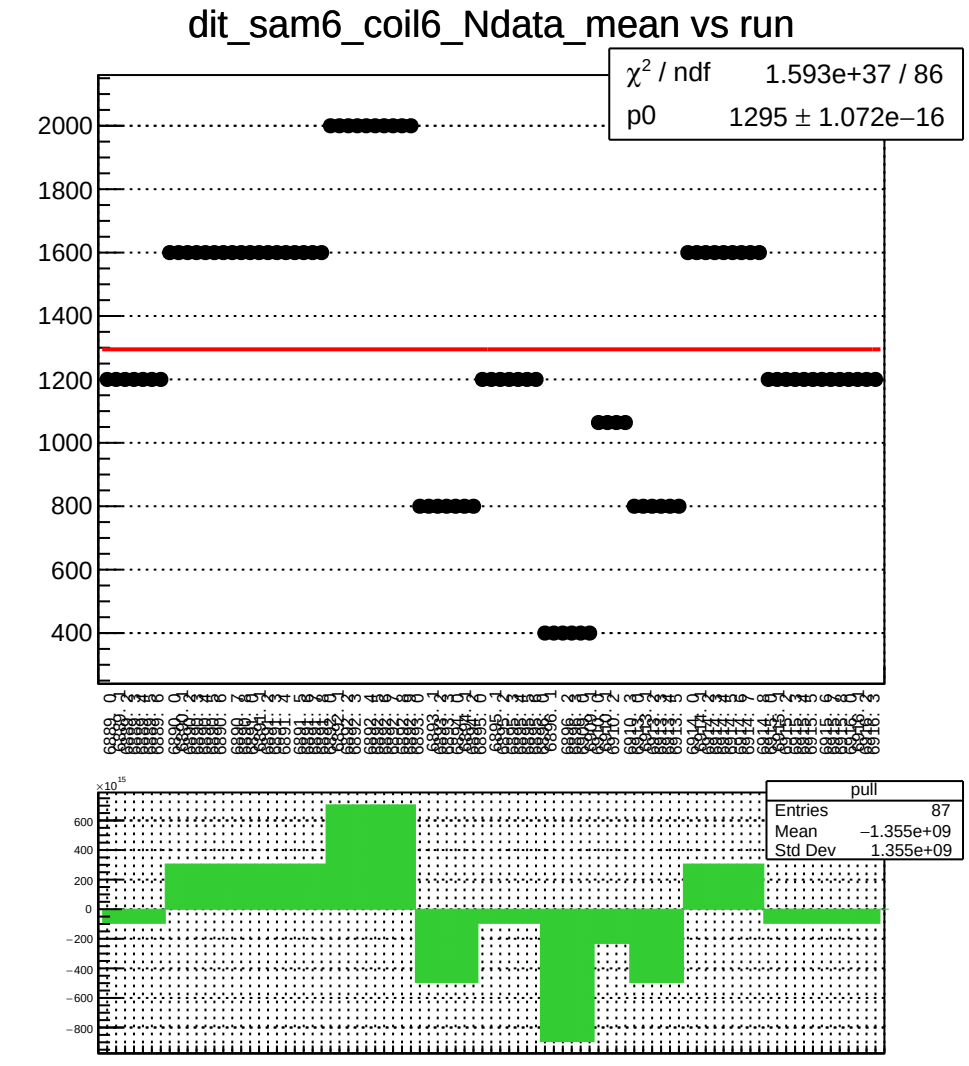

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

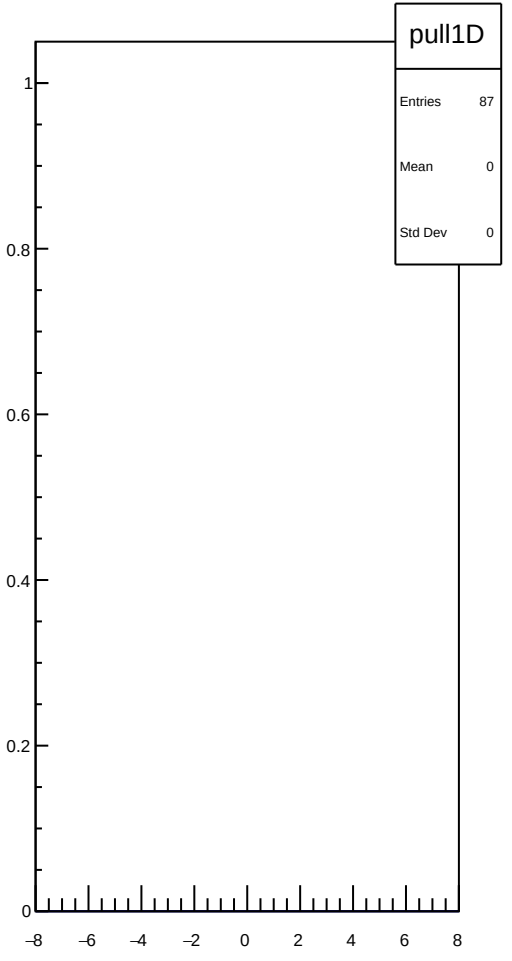

dit_sam6_coil6_mean vs run
χ² / ndf 3.495e+37 / 86
p0 −1182 ± 1.072e−16
−600
−800
−1000
−1200
−1400
−1600
−1800
−2000
pull
Entries 87
Mean 1.68e+10
Std Dev 1.68e+10
×10¹⁵
600
400
200
0
−200
−400
−600
−800

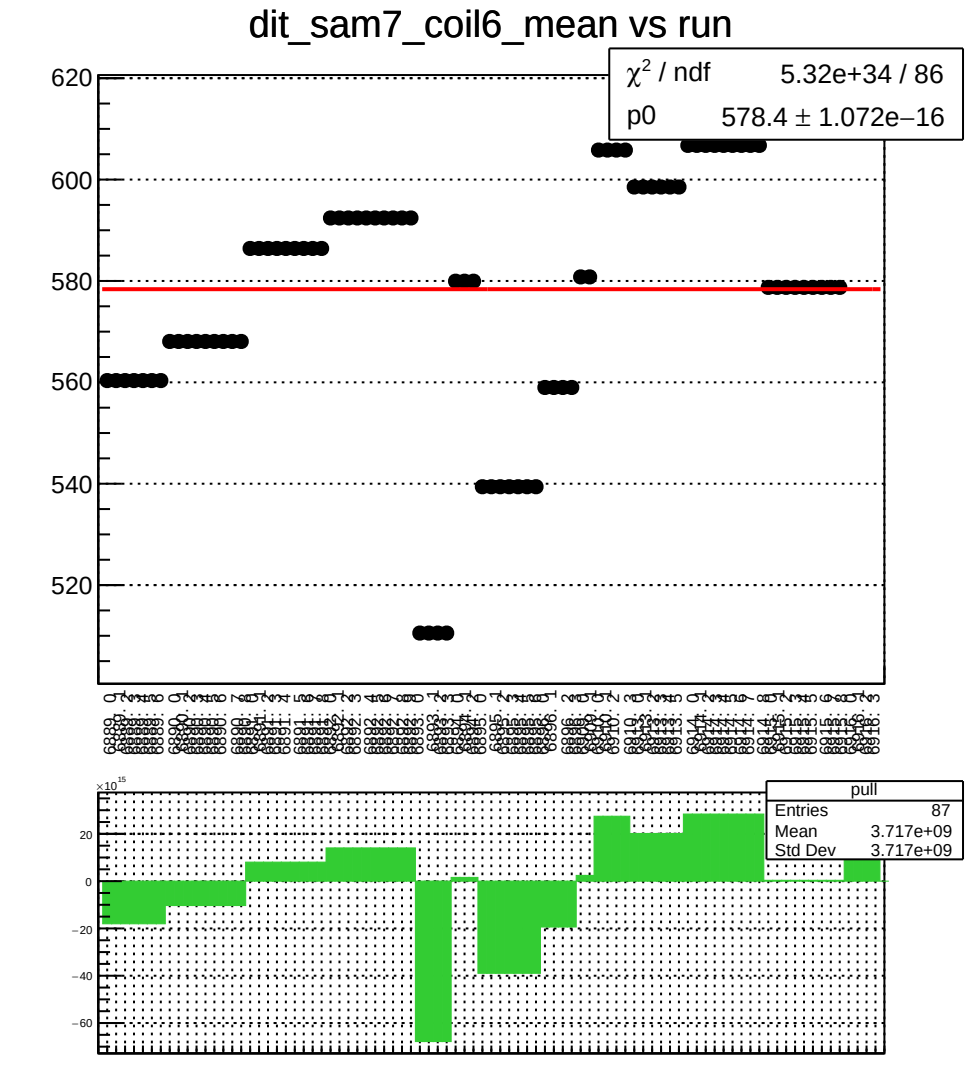

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

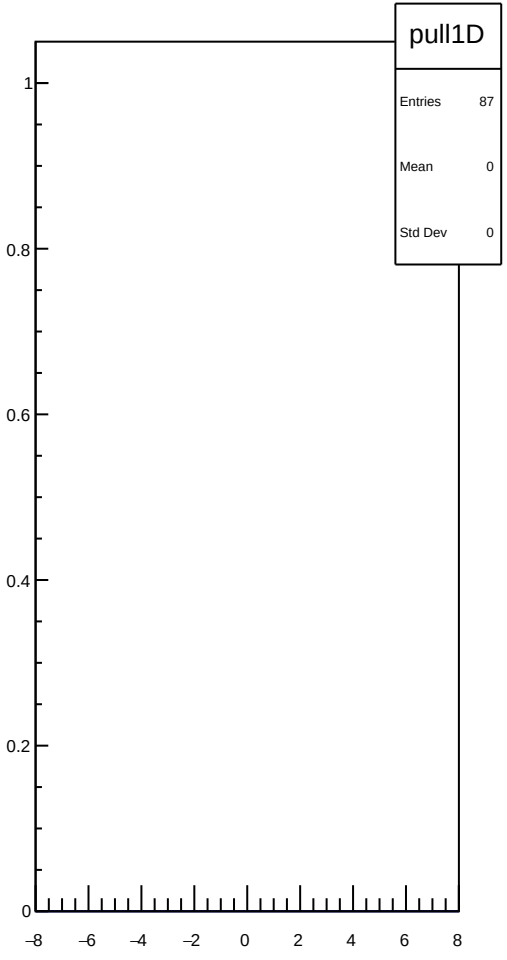

dit_sam6_coil6_err_mean vs run
χ² / ndf 2.278e+34 / 86
p0 83.23 ± 1.072e−16
110
100
90
80
70
60
pull
Entries 87
Mean 2.383e+08
Std Dev 2.383e+08
×10¹⁵
20
10
0
−10
−20

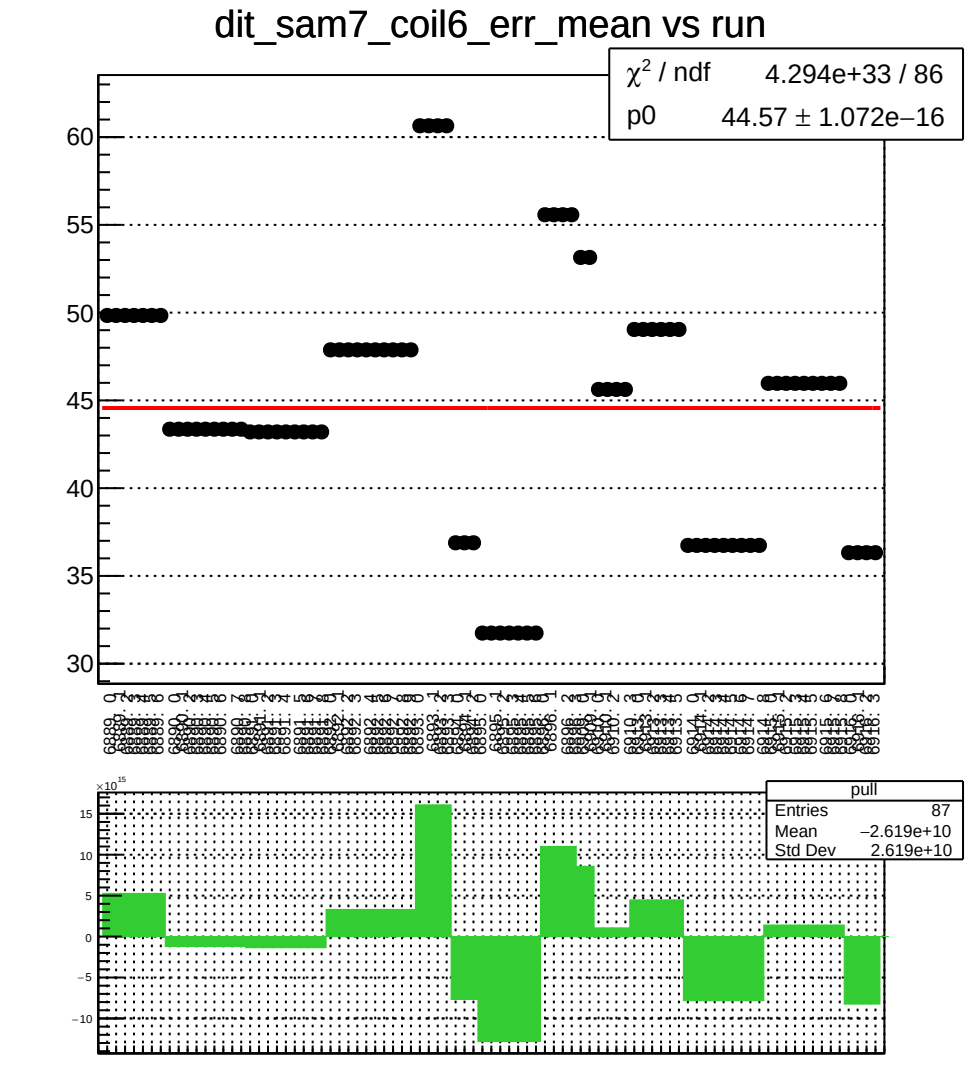

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

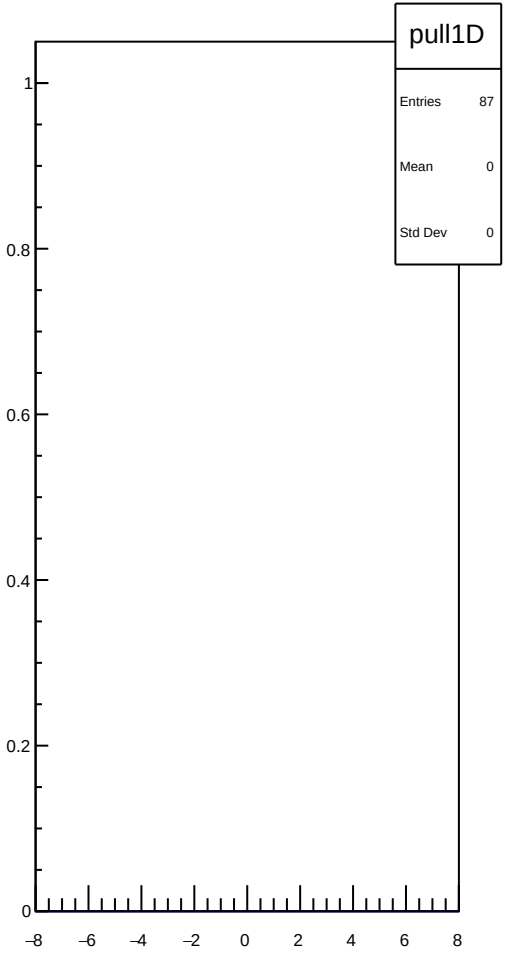

dit_sam6_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800

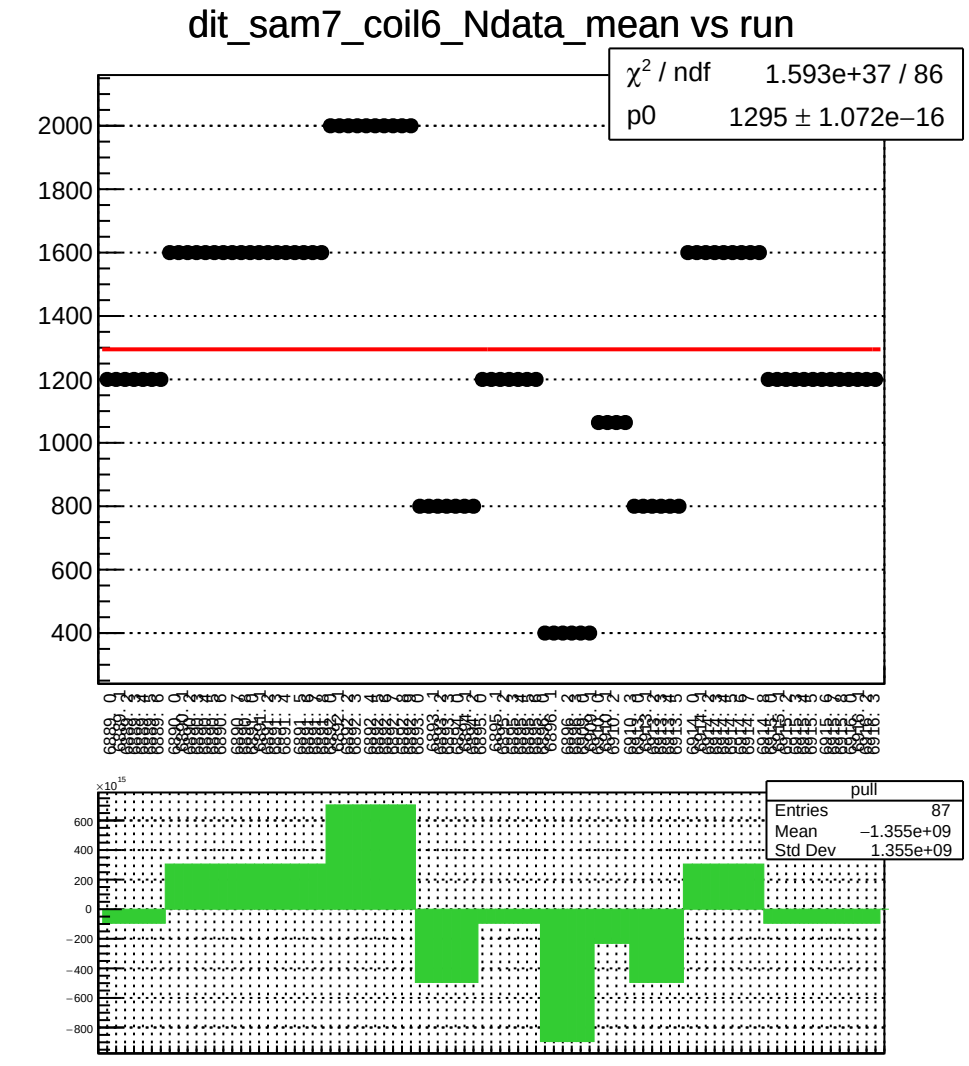

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

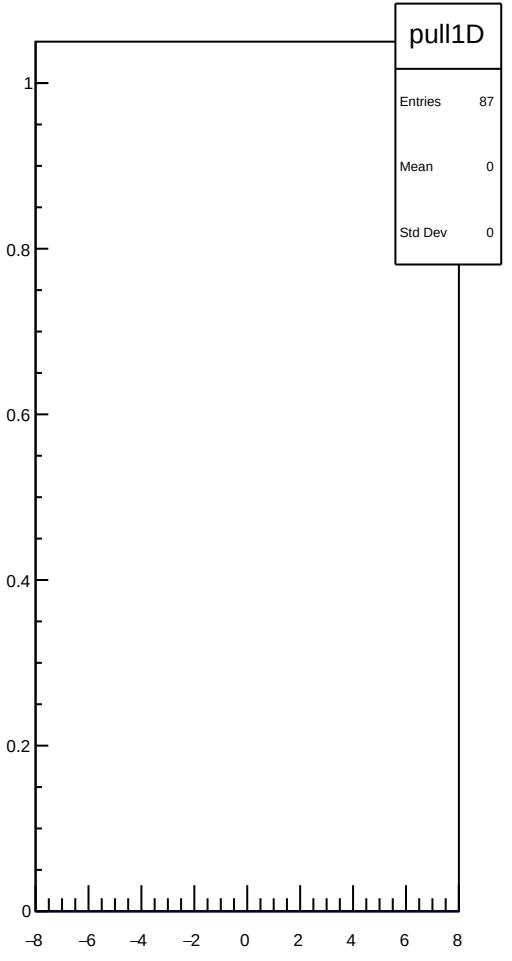

dit_sam7_coil6_mean vs run
χ² / ndf 5.32e+34 / 86
p0 578.4 ± 1.072e−16
620
600
580
560
540
520
pull
Entries 87
Mean 3.717e+09
Std Dev 3.717e+09
×10¹⁵
20
0
−20
−40
−60

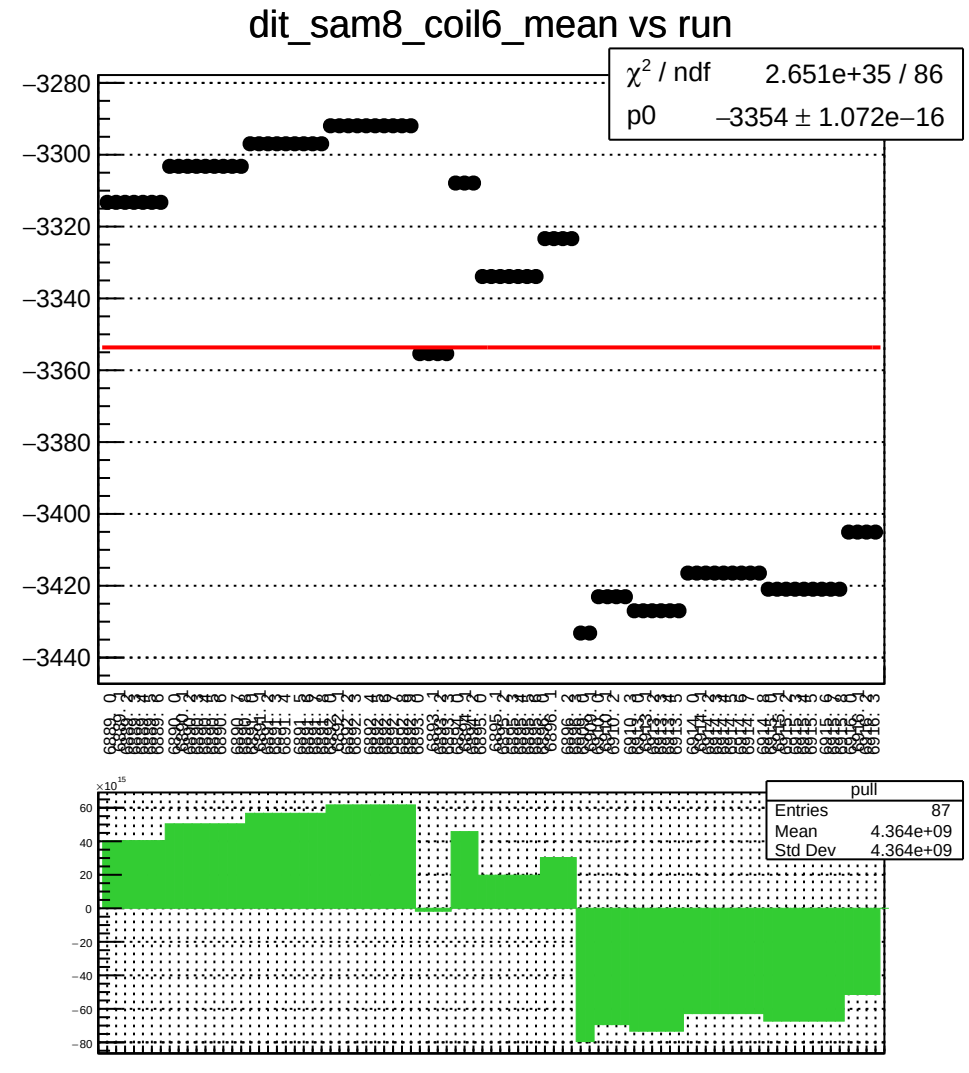

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

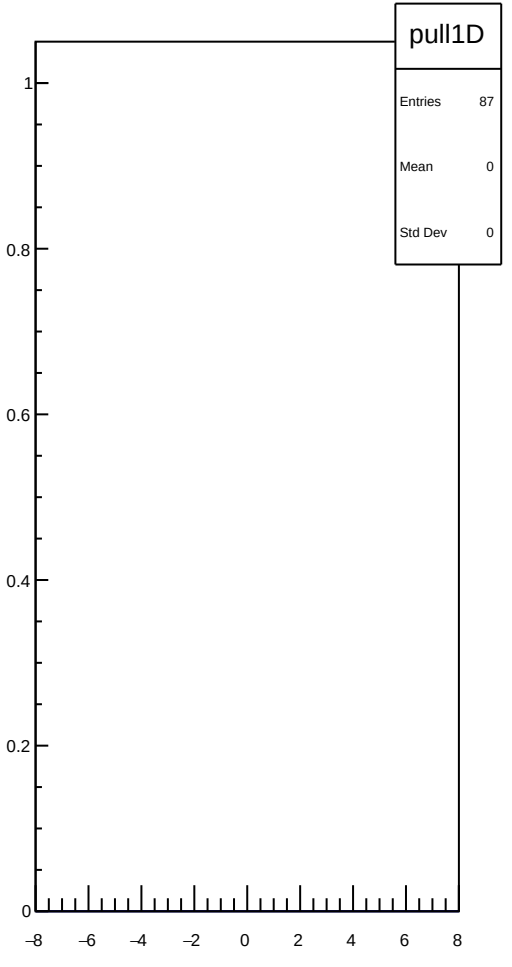

dit_sam7_coil6_err_mean vs run
χ² / ndf 4.294e+33 / 86
p0 44.57 ± 1.072e−16
60
55
50
45
40
35
30
pull
Entries 87
Mean −2.619e+10
Std Dev 2.619e+10
×10¹⁵
15
10
5
0
−5
−10

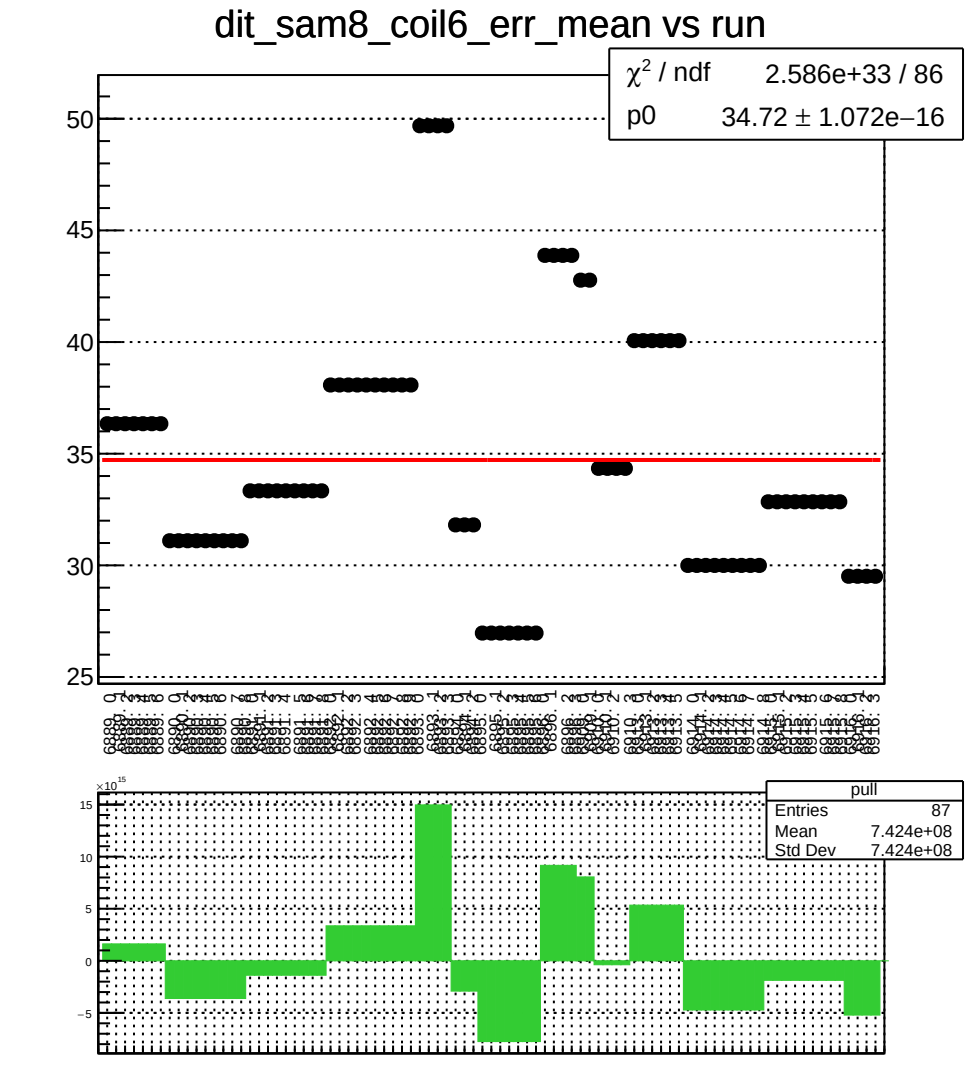

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

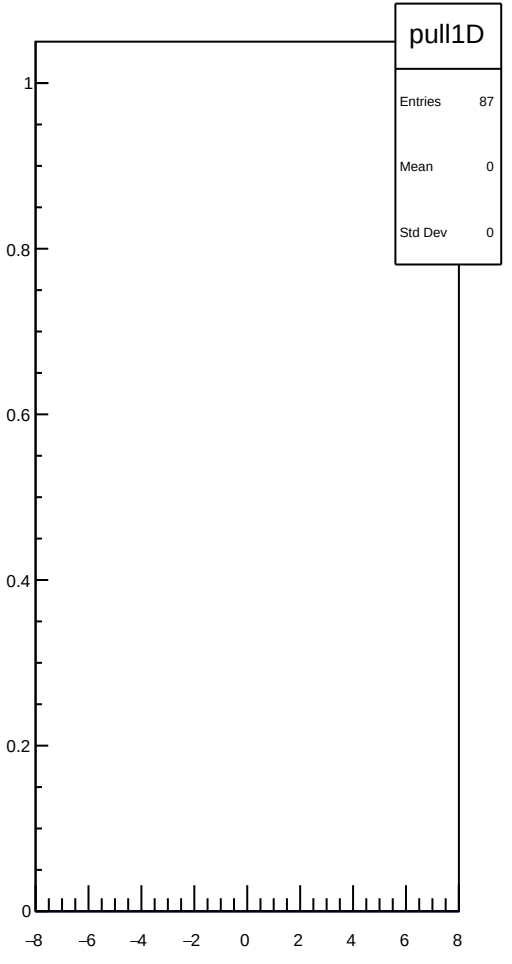

dit_sam7_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800

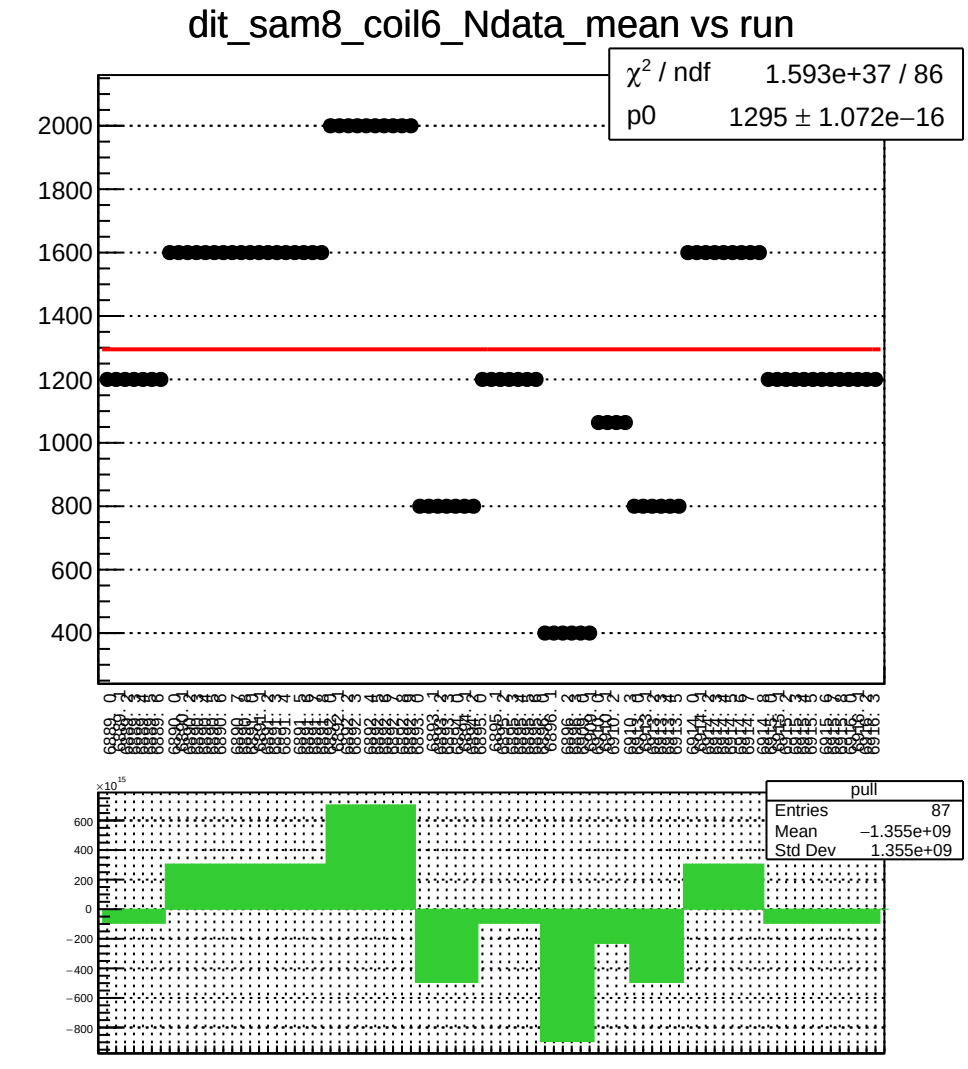

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

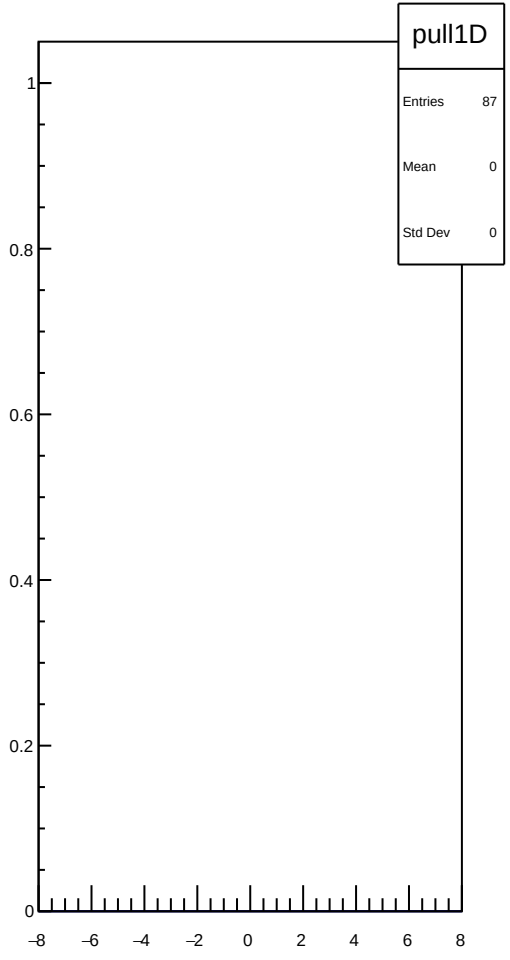

dit_sam8_coil6_mean vs run
χ² / ndf 2.651e+35 / 86
p0 −3354 ± 1.072e−16
−3280
−3300
−3320
−3340
−3360
−3380
−3400
−3420
−3440
pull
Entries 87
Mean 4.364e+09
Std Dev 4.364e+09
×10¹⁵
60
40
20
0
−20
−40
−60
−80

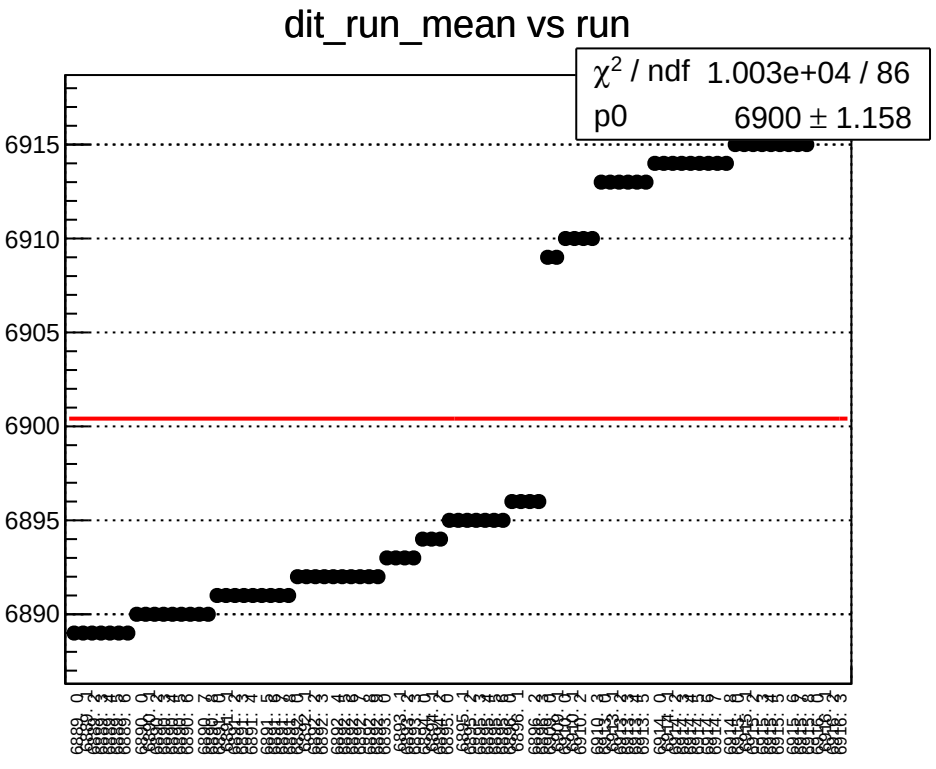

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

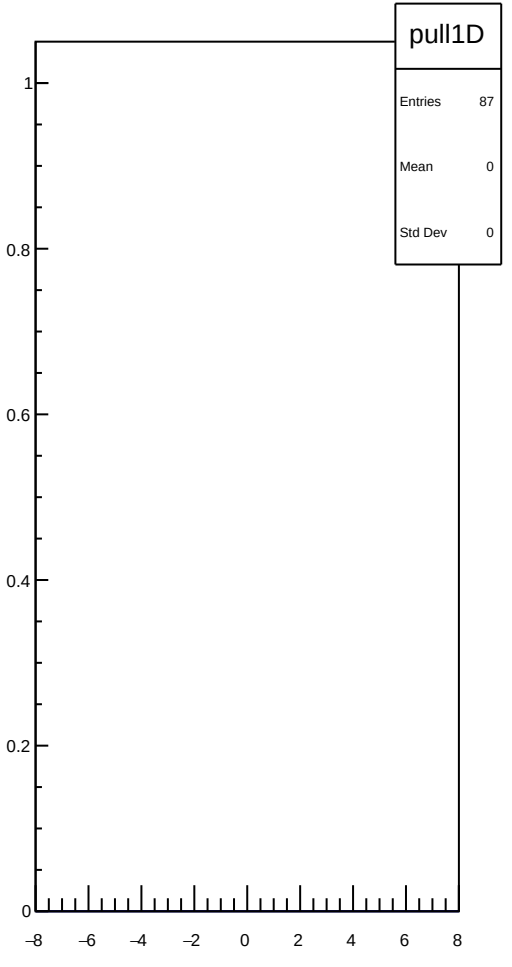

dit_sam8_coil6_err_mean vs run
χ² / ndf 2.586e+33 / 86
p0 34.72 ± 1.072e−16
50
45
40
35
30
25
pull
Entries 87
Mean 7.424e+08
Std Dev 7.424e+08
×10¹⁵
15
10
5
0
−5

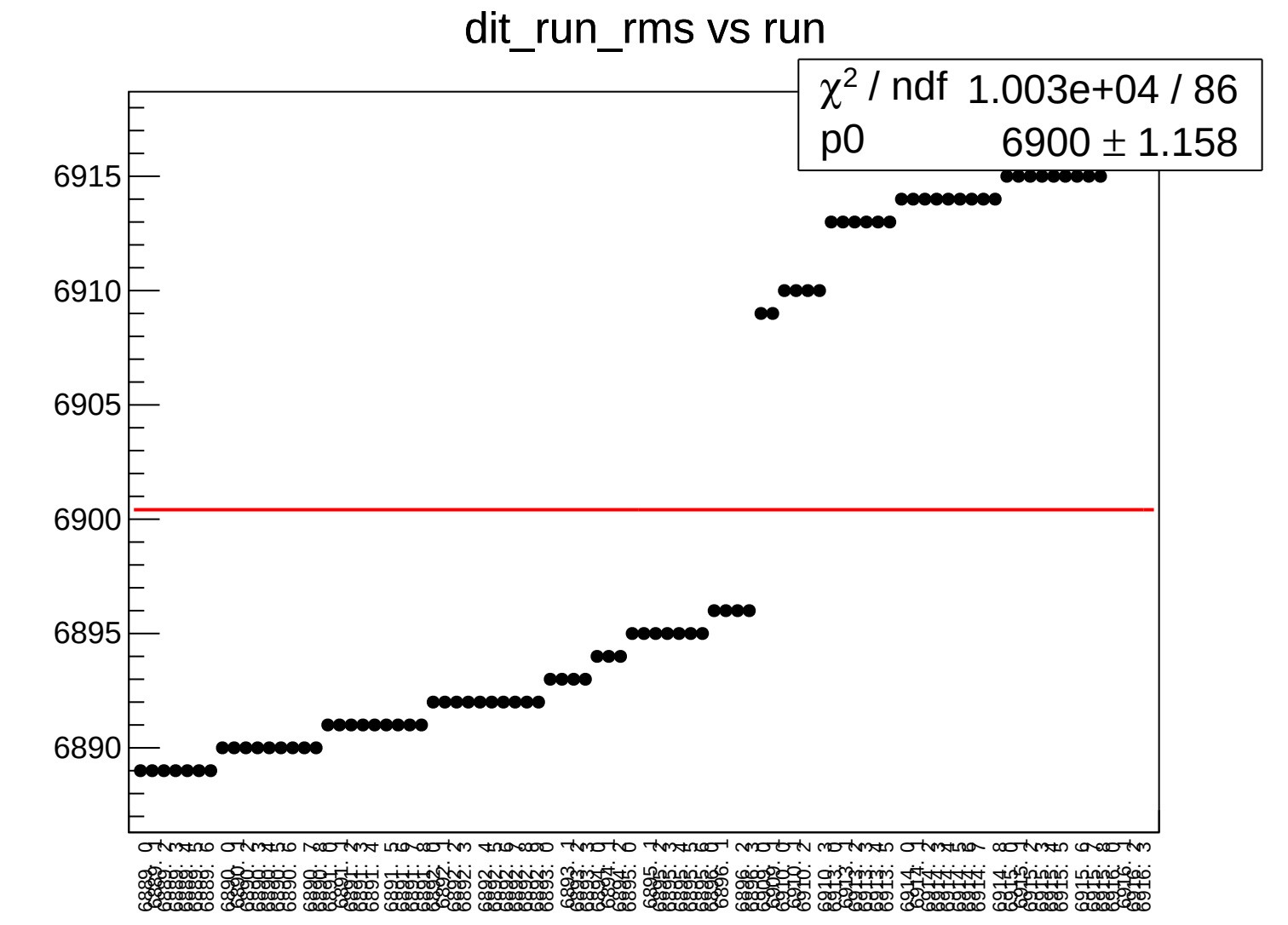

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

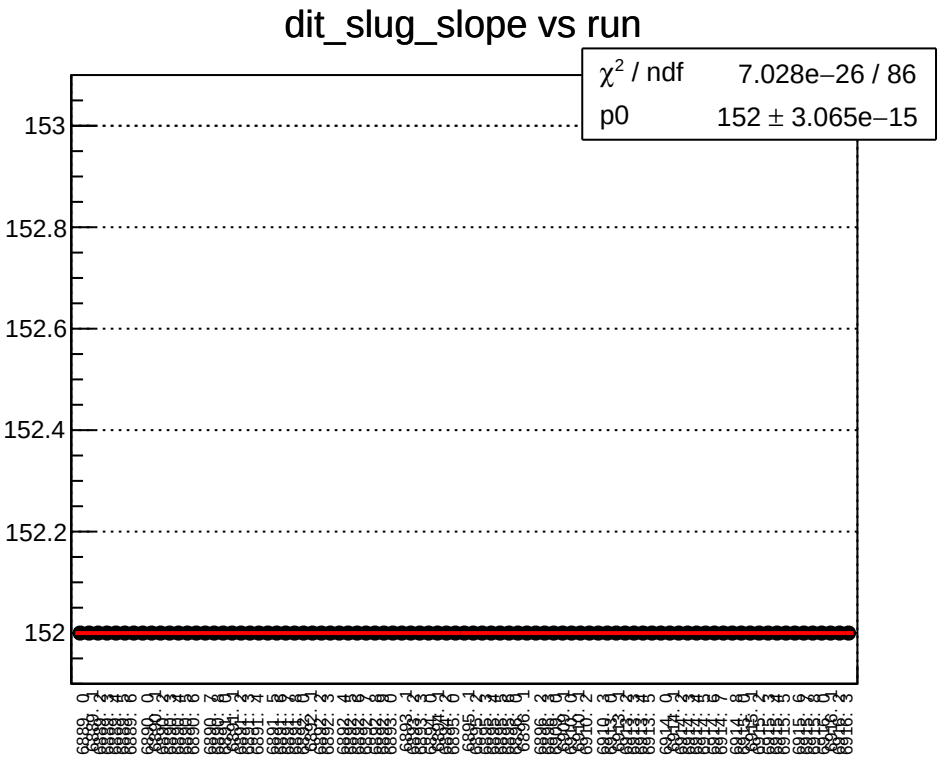

dit_sam8_coil6_Ndata_mean vs run
χ² / ndf 1.593e+37 / 86
p0 1295 ± 1.072e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 87
Mean −1.355e+09
Std Dev 1.355e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800

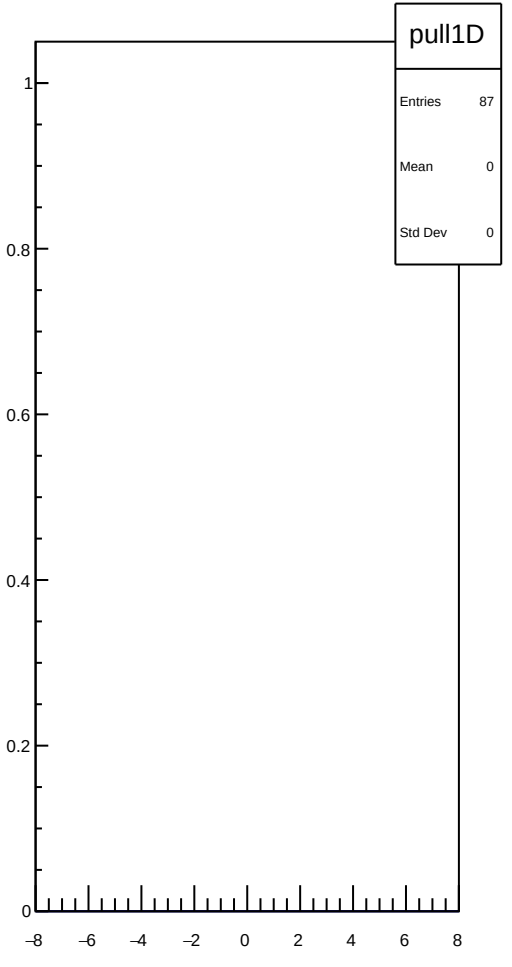

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

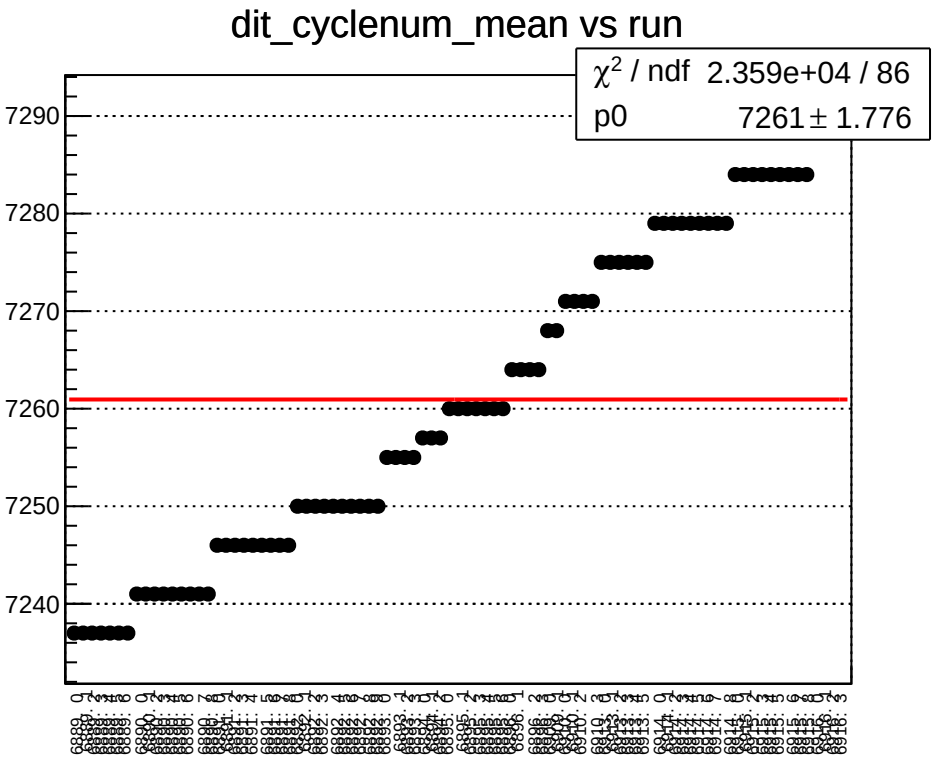

dit_run_mean vs run
χ^2 / ndf 1.003e+04 / 86
p0 6900 ± 1.158
6915
6910
6905
6900
6895
6890

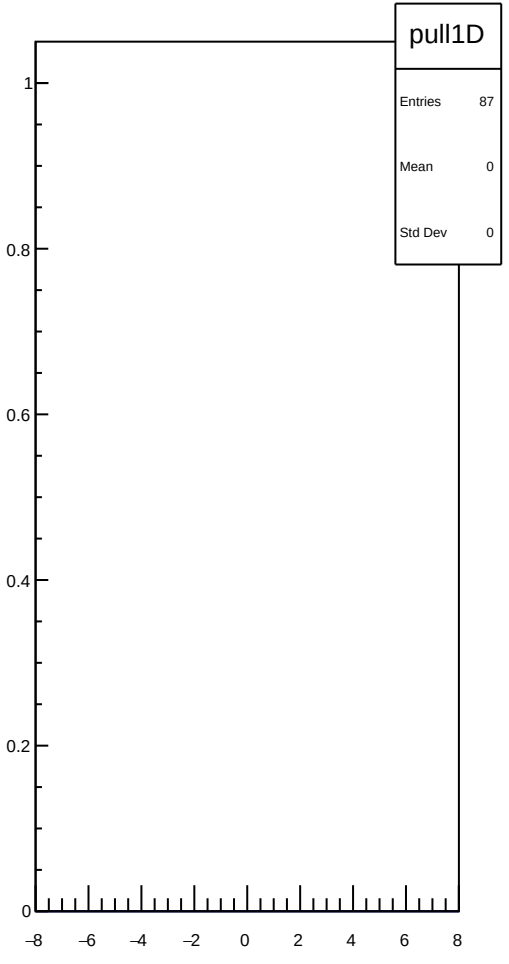

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

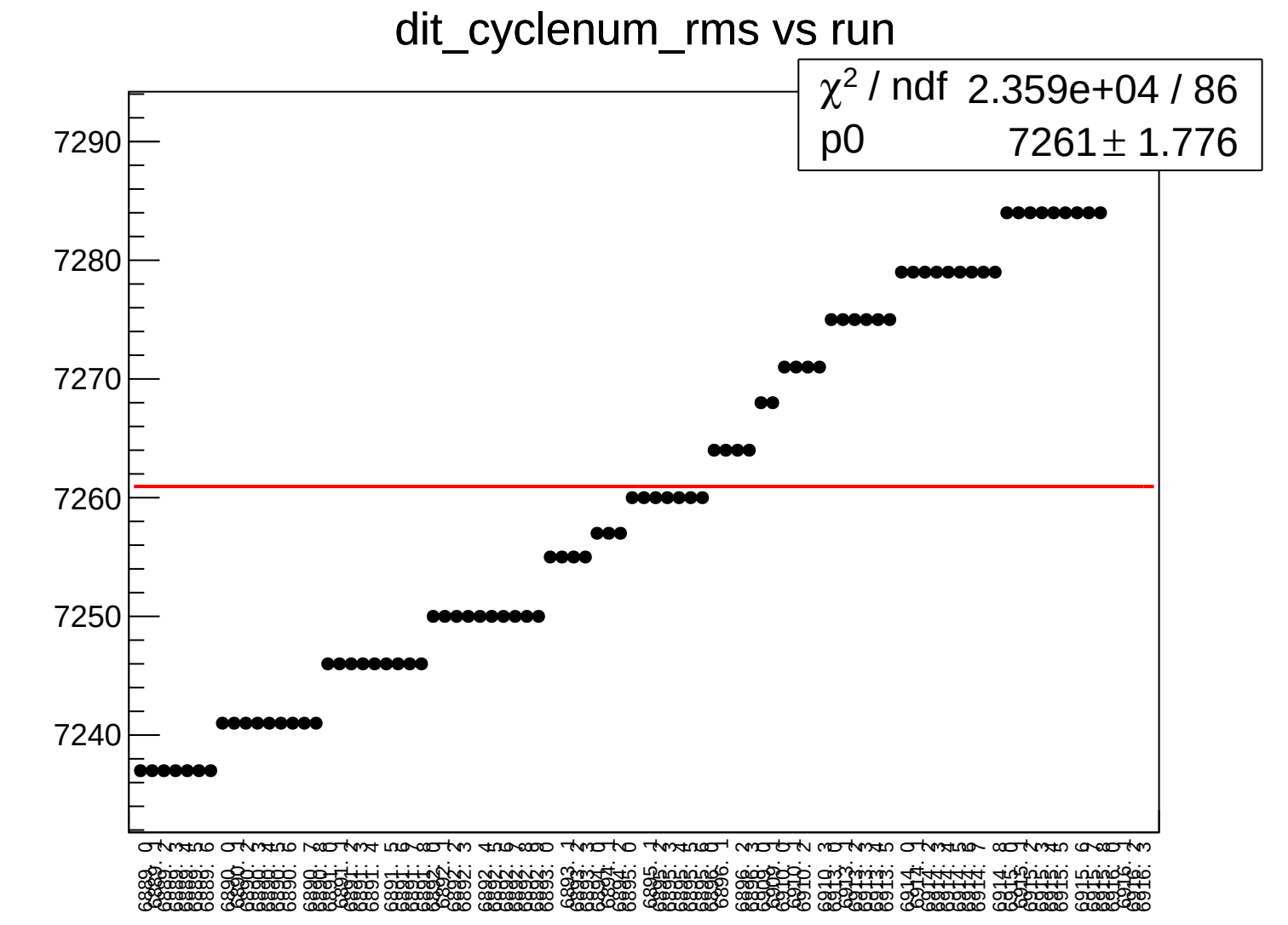

dit_run_rms vs run
χ^2 / ndf 1.003e+04 / 86
p0 6900 ± 1.158
6915
6910
6905
6900
6895
6890

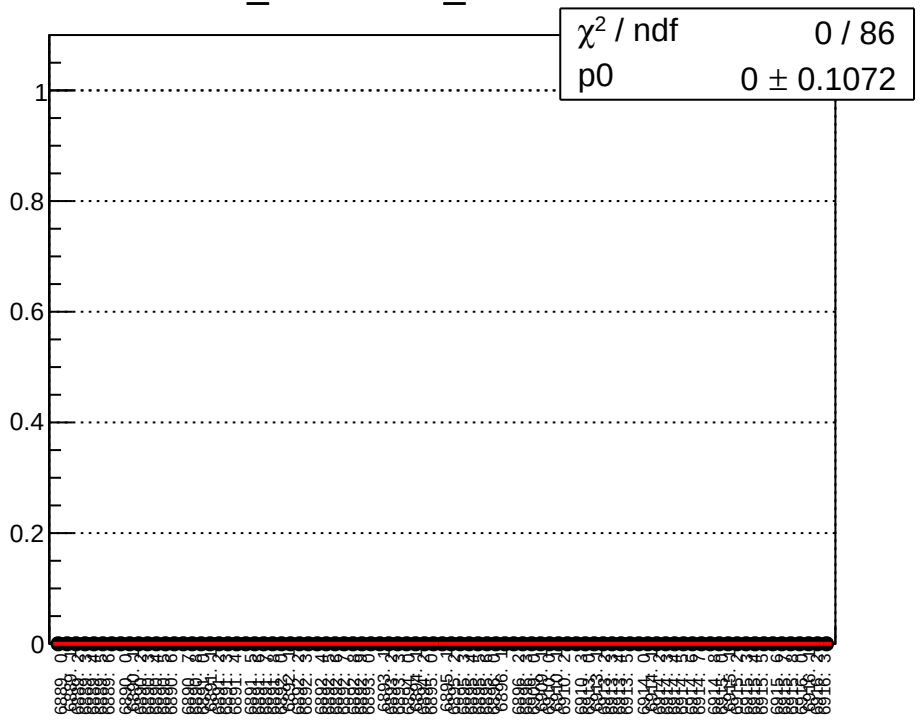

dit_slug_slope vs run
χ^2 / ndf 7.028e−26 / 86
p0 152 ± 3.065e−15
153
152.8
152.6
152.4
152.2
152

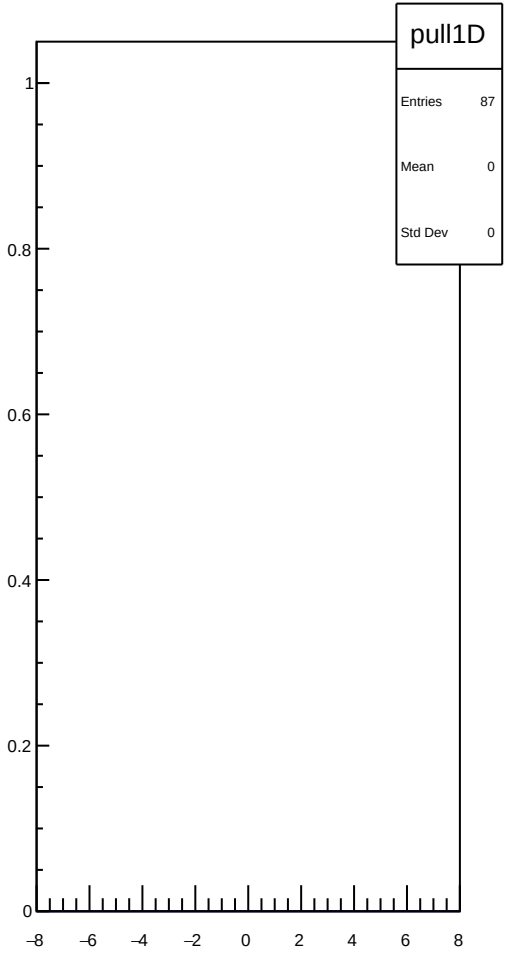

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

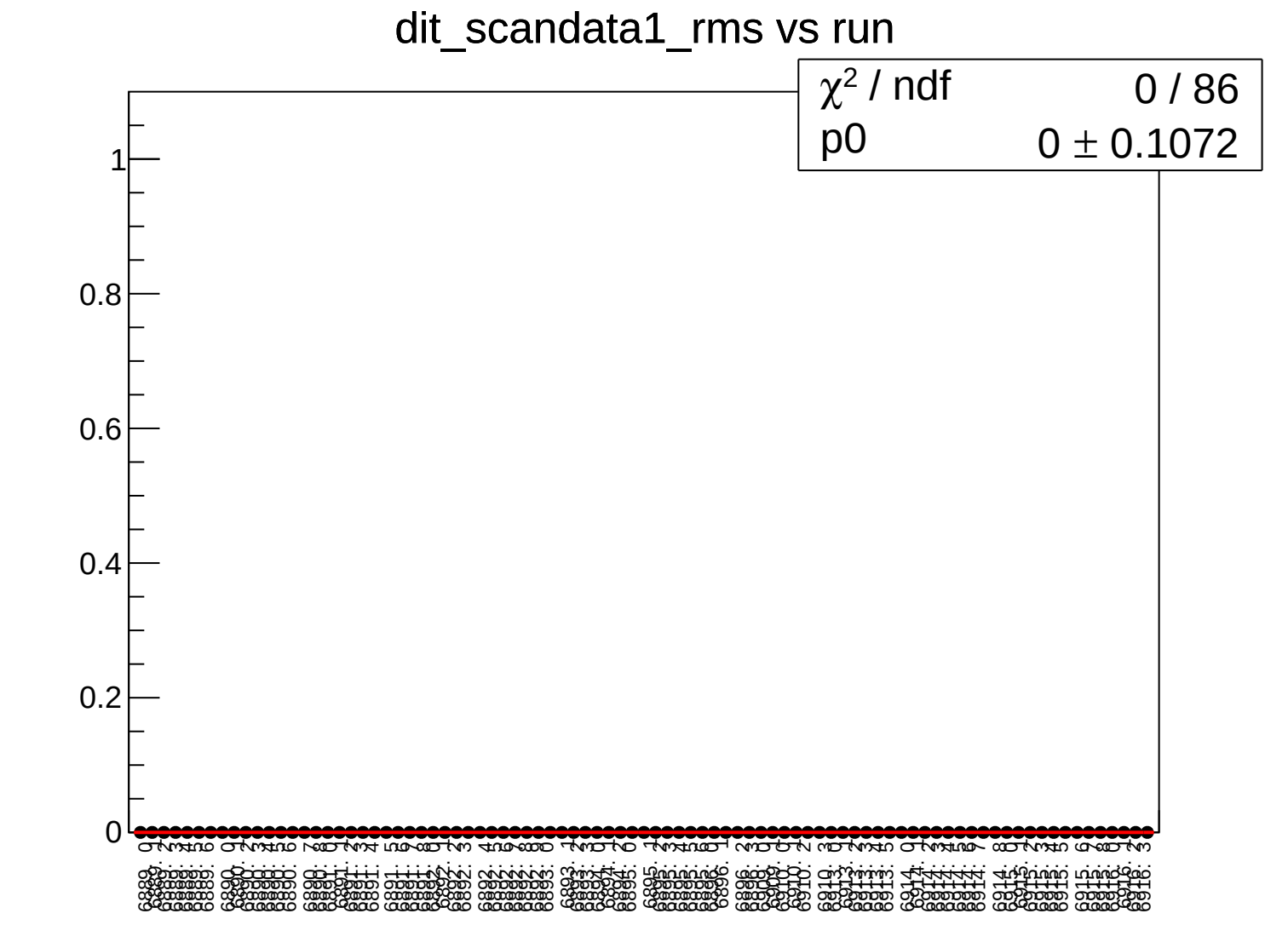

dit_cyclenum_mean vs run
χ^2 / ndf 2.359e+04 / 86
p0 7261 ± 1.776
7290
7280
7270
7260
7250
7240

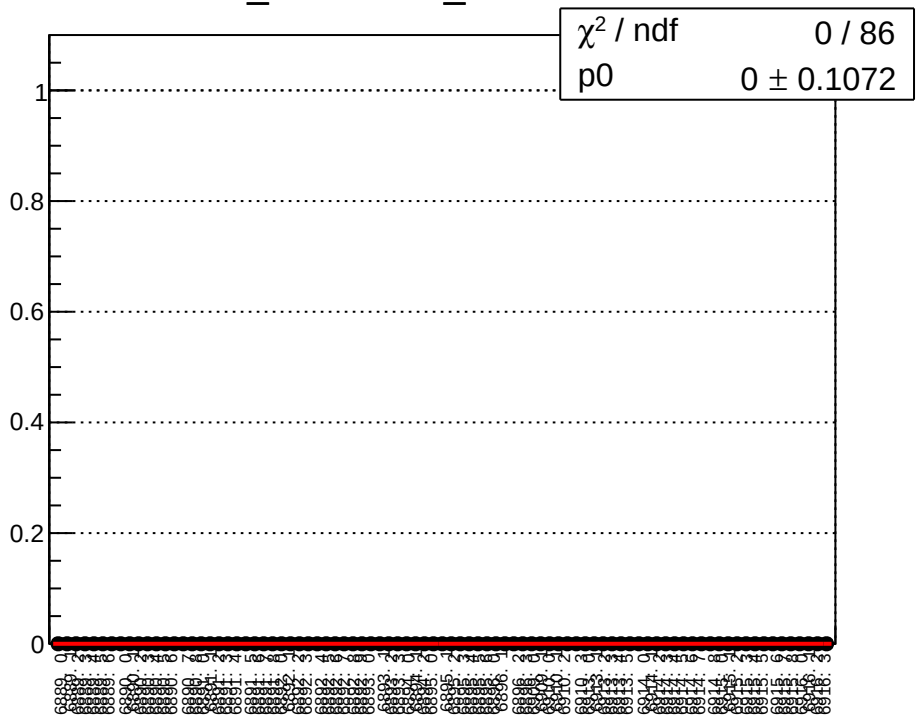

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

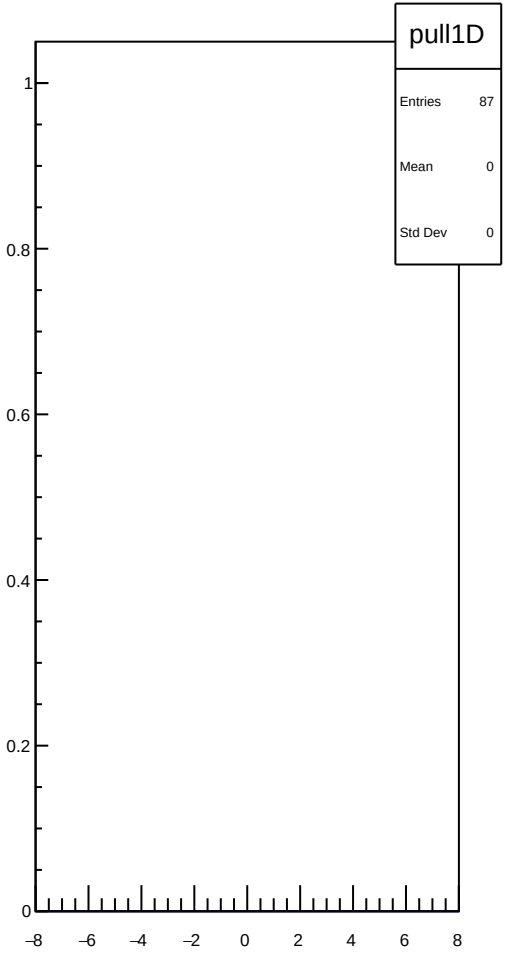

dit_cyclenum_rms vs run
χ^2 / ndf 2.359e+04 / 86
p0 7261 ± 1.776
7290
7280
7270
7260
7250
7240

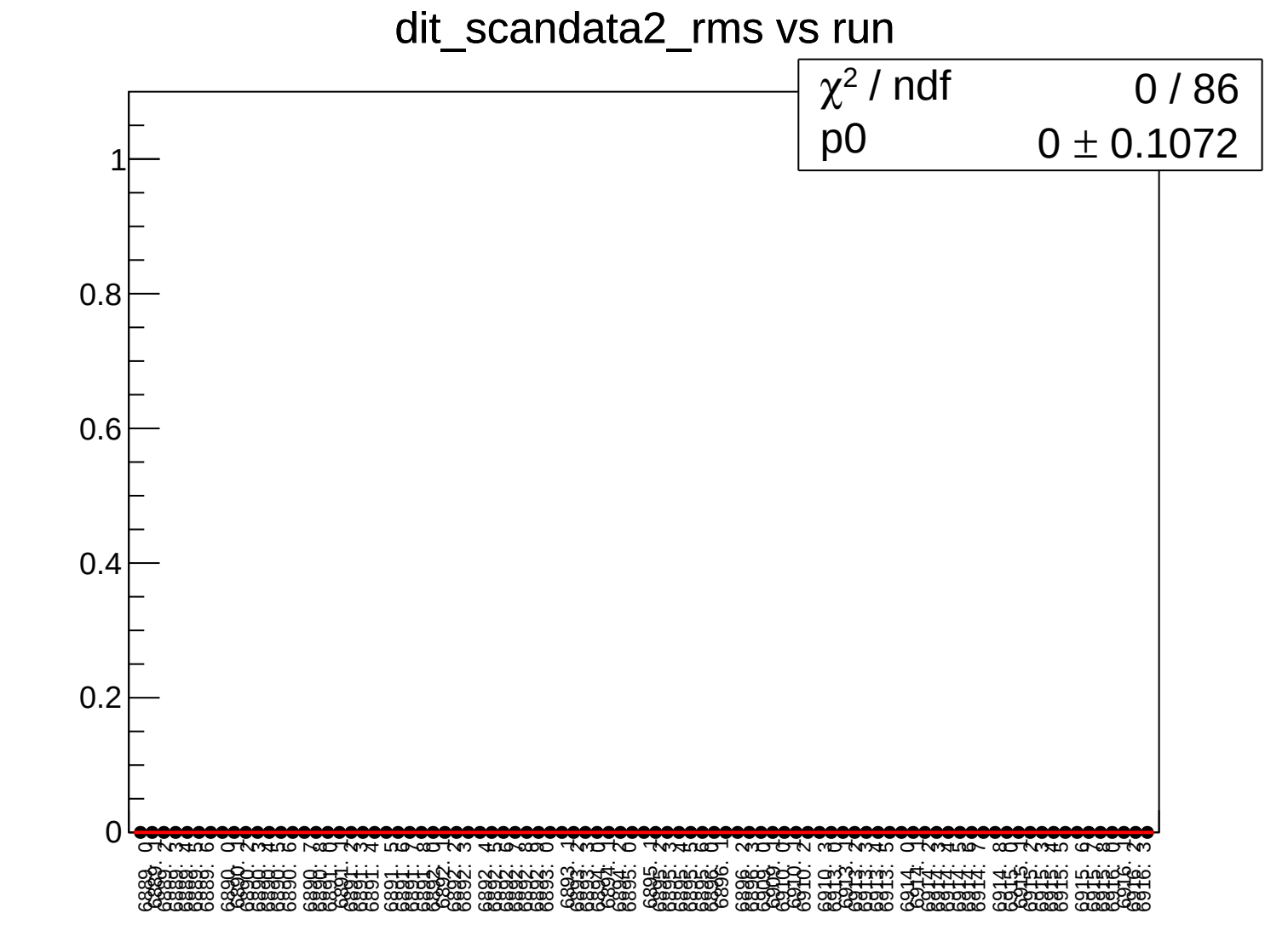

dit_scandata1_mean vs run
χ² / ndf 0 / 86
p0 0 ± 0.1072
1
0.8
0.6
0.4
0.2
0

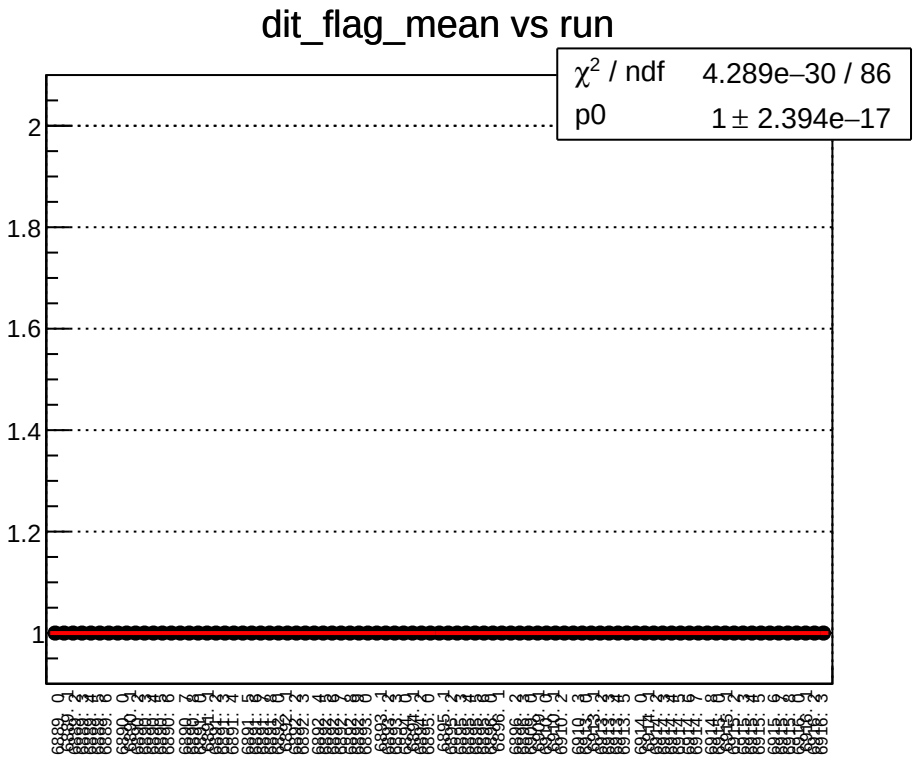

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

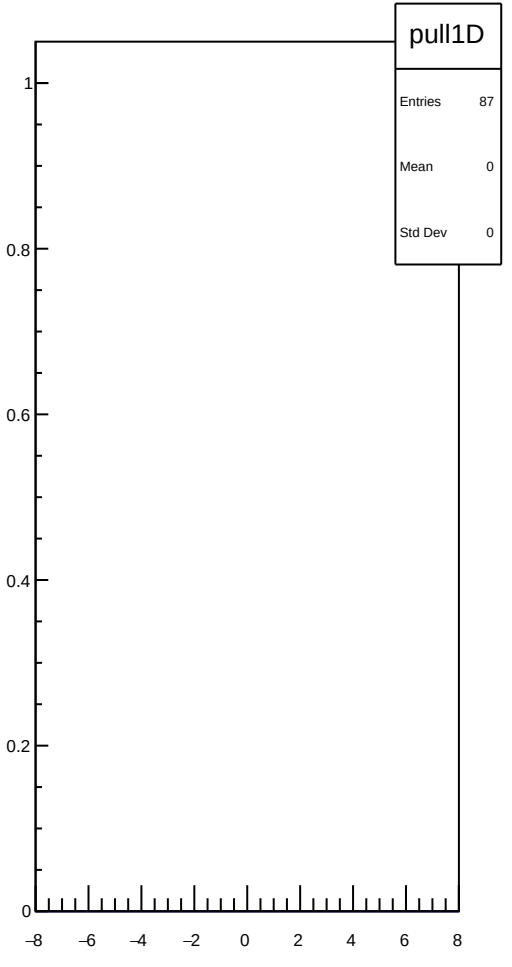

dit_scandata1_rms vs run
χ² / ndf 0 / 86
p0 0 ± 0.1072
1
0.8
0.6
0.4
0.2
0

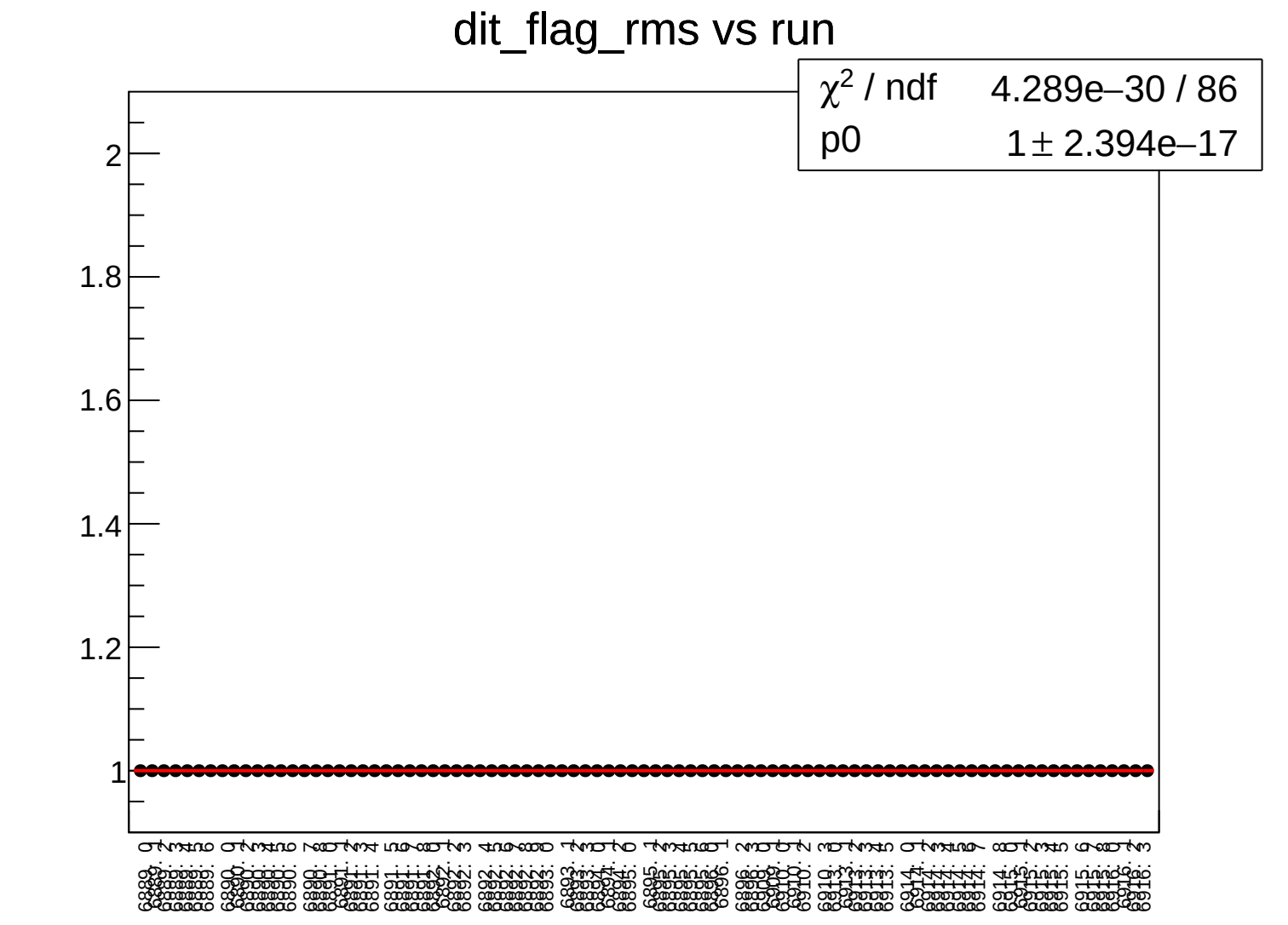

dit_scandata2_mean vs run
χ² / ndf 0 / 86
p0 0 ± 0.1072
1
0.8
0.6
0.4
0.2
0

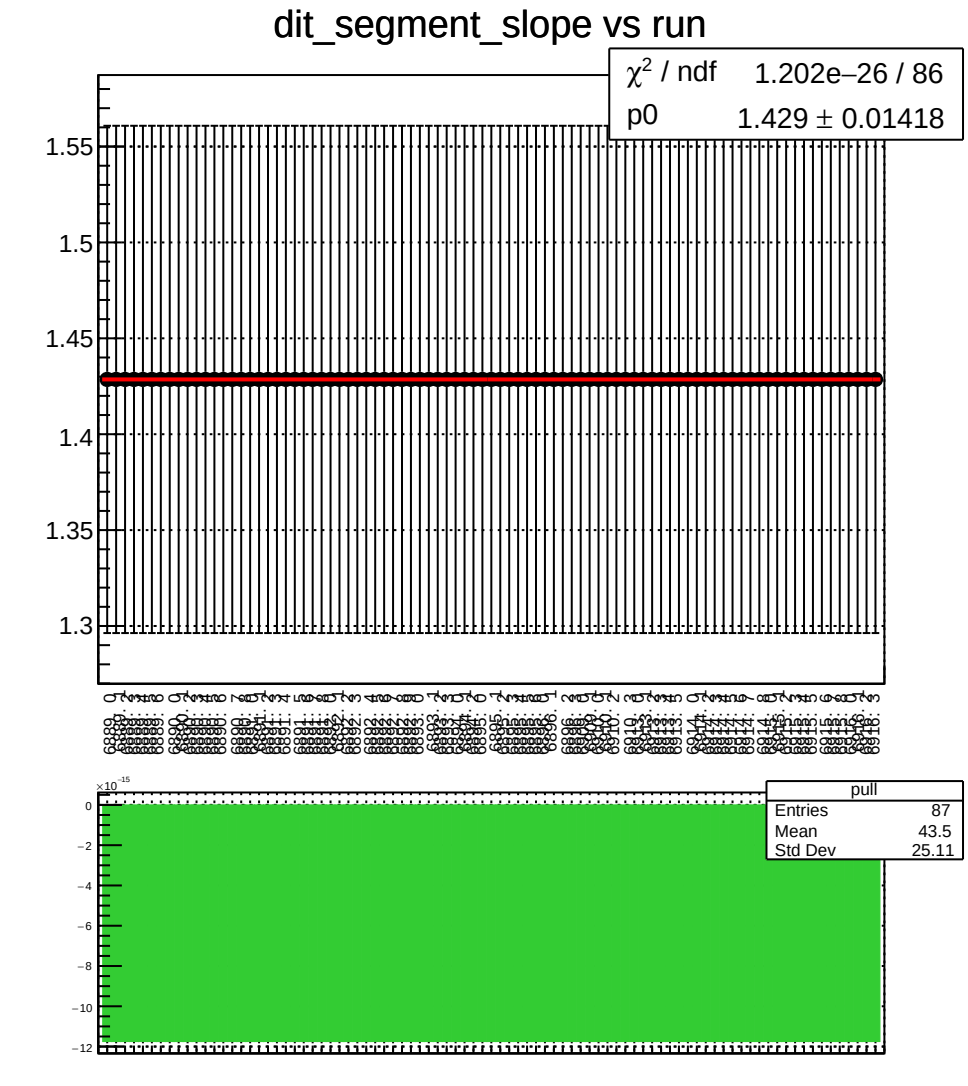

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

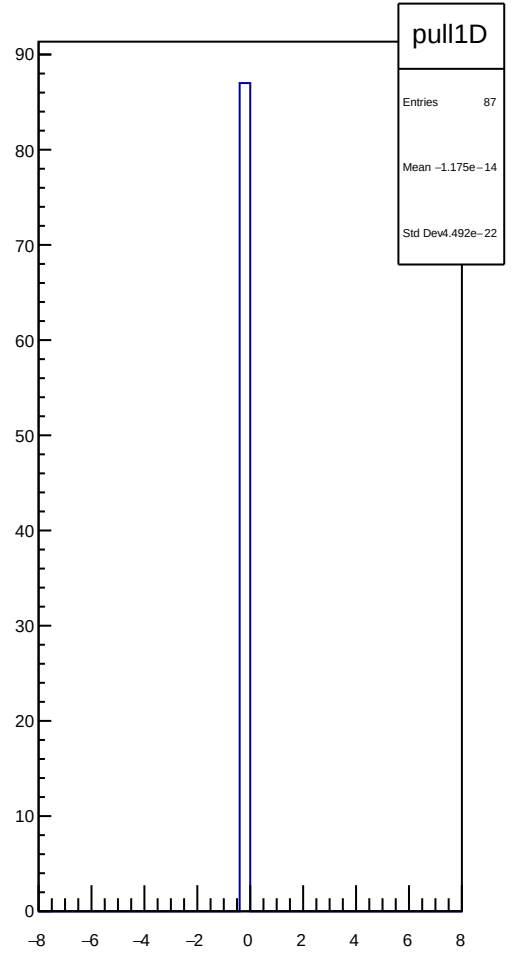

dit_scandata2_rms vs run
χ² / ndf 0 / 86
p0 0 ± 0.1072
1
0.8
0.6
0.4
0.2
0

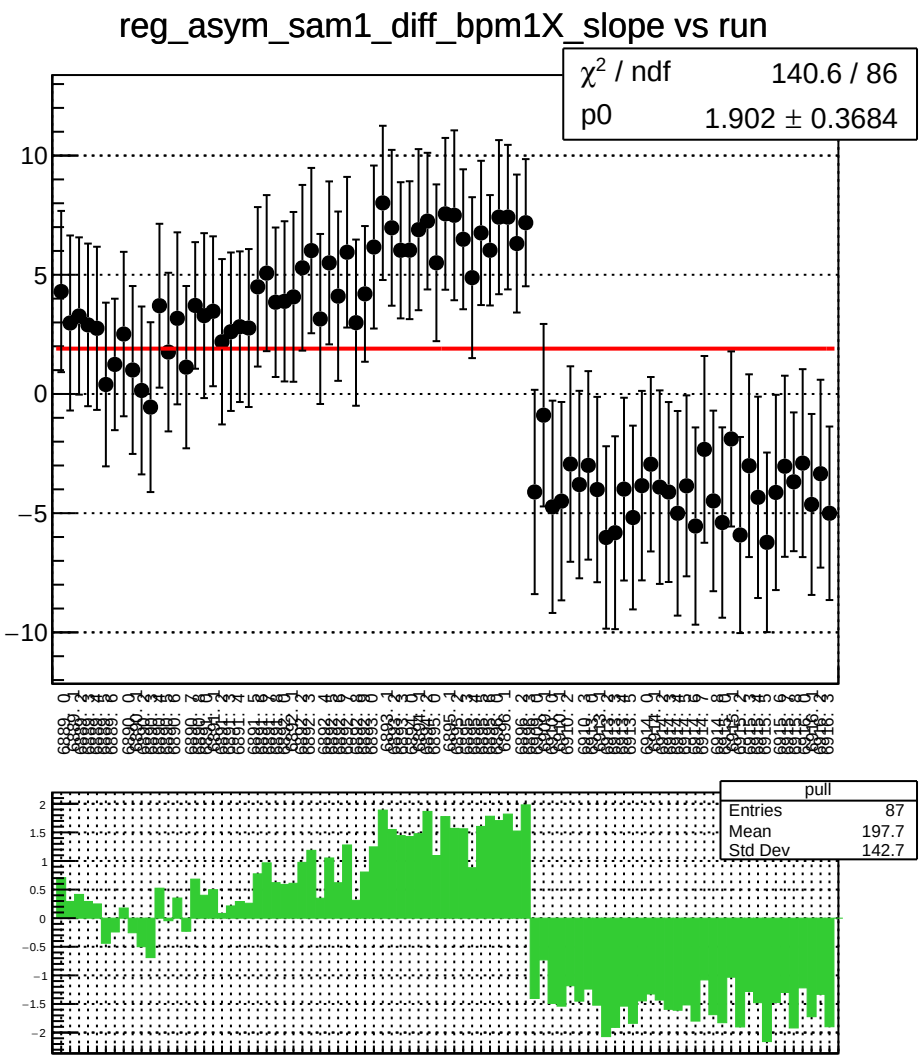

dit_flag_mean vs run
χ^2 / ndf 4.289e−30 / 86
p0 1 ± 2.394e−17
2
1.8
1.6
1.4
1.2
1

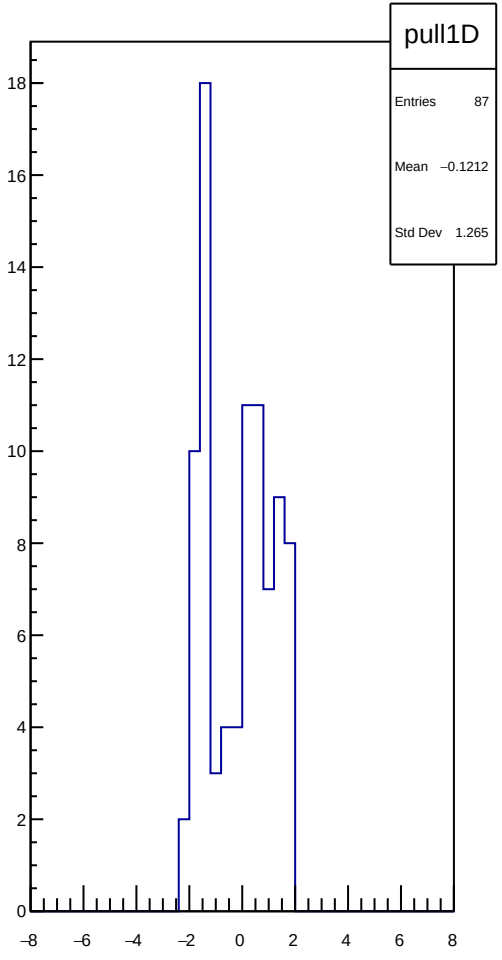

pull1D
Entries 87
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

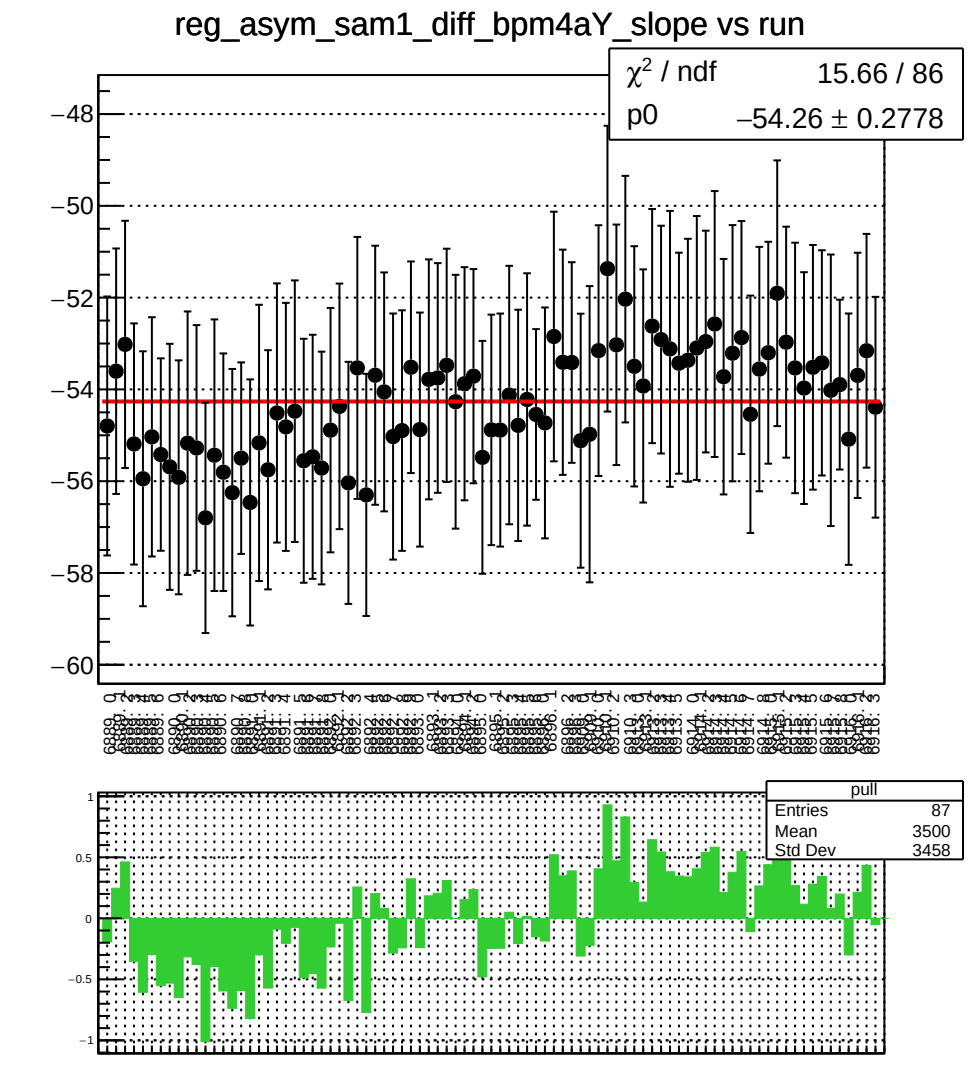

dit_flag_rms vs run
χ^2 / ndf 4.289e−30 / 86
p0 1 ± 2.394e−17
2
1.8
1.6
1.4
1.2
1

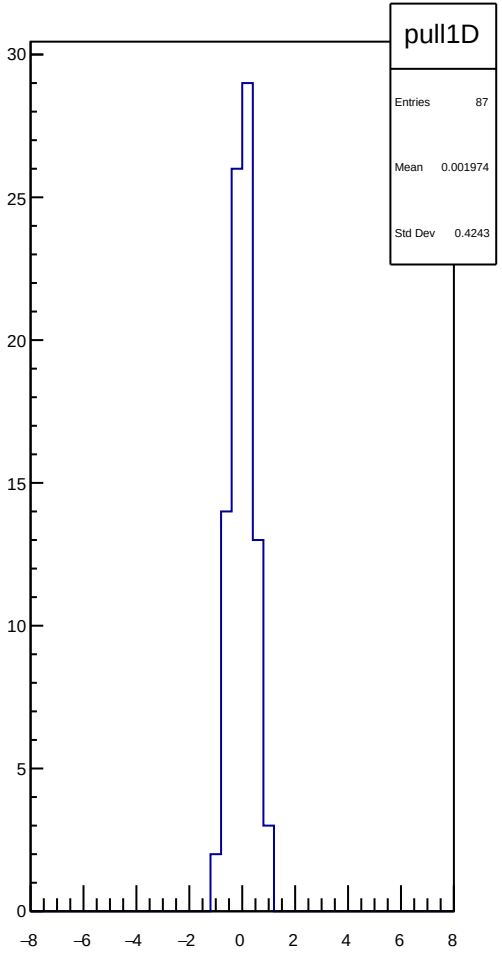

dit_segment_slope vs run
χ² / ndf 1.202e−26 / 86
p0 1.429 ± 0.01418
1.55
1.5
1.45
1.4
1.35
1.3
pull
Entries 87
Mean 43.5
Std Dev 25.11
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12

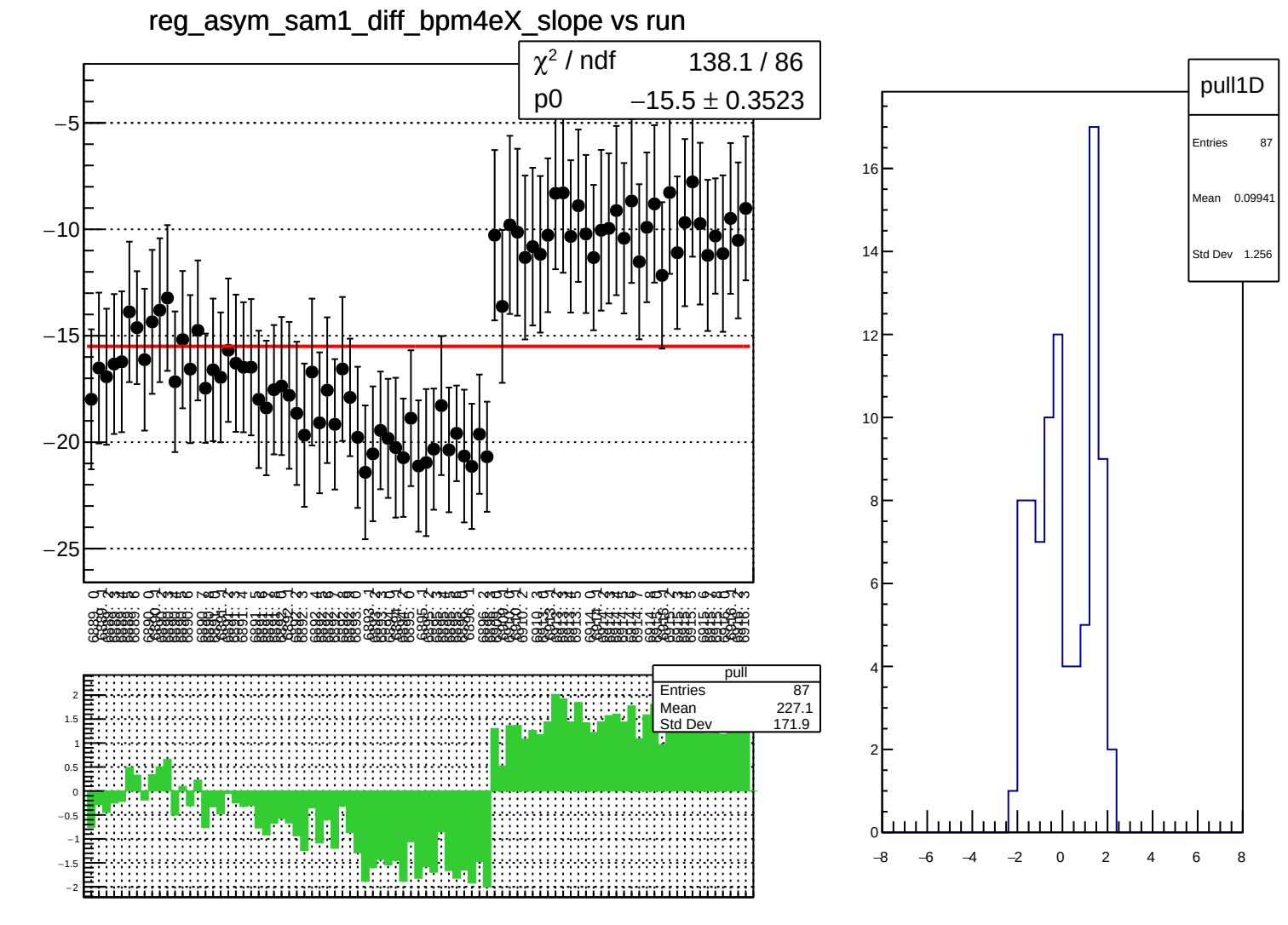

pull1D
Entries 87
Mean −1.175e−14
Std Dev4.492e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

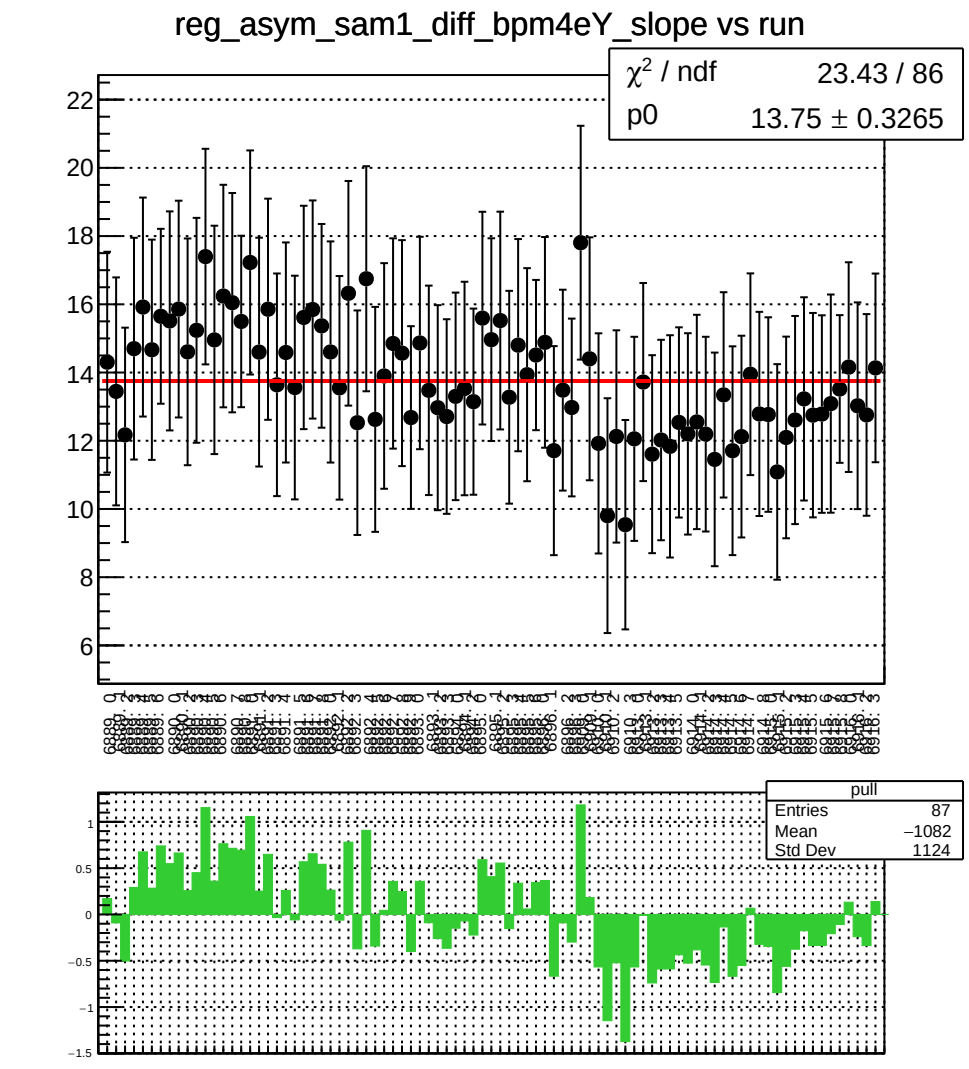

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 140.6 / 86
p0 1.902 ± 0.3684
pull
Entries 87
Mean 197.7
Std Dev 142.7

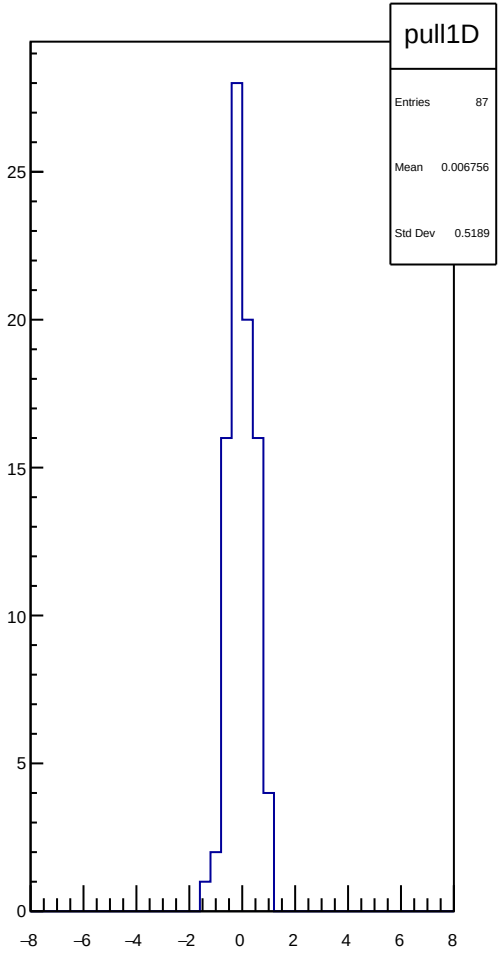

pull1D
Entries 87
Mean −0.1212
Std Dev 1.265

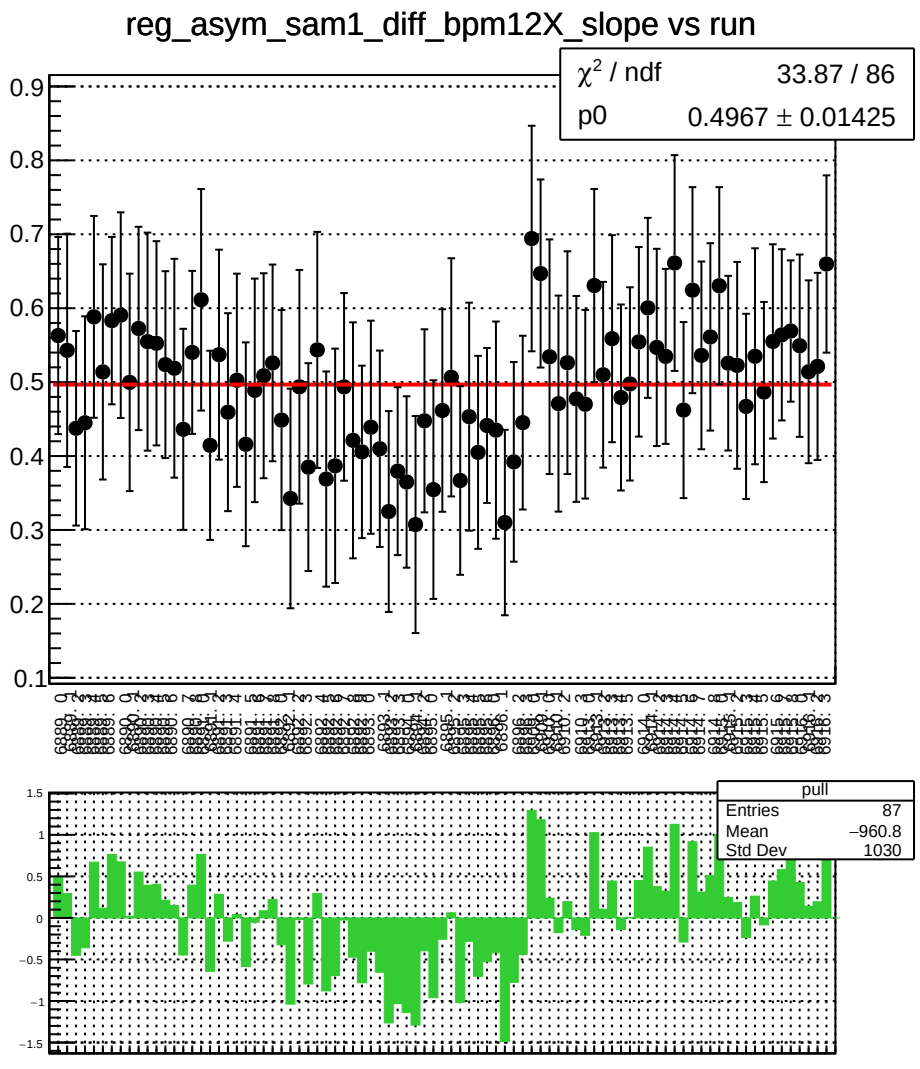

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 15.66 / 86
p0 −54.26 ± 0.2778
pull
Entries 87
Mean 3500
Std Dev 3458

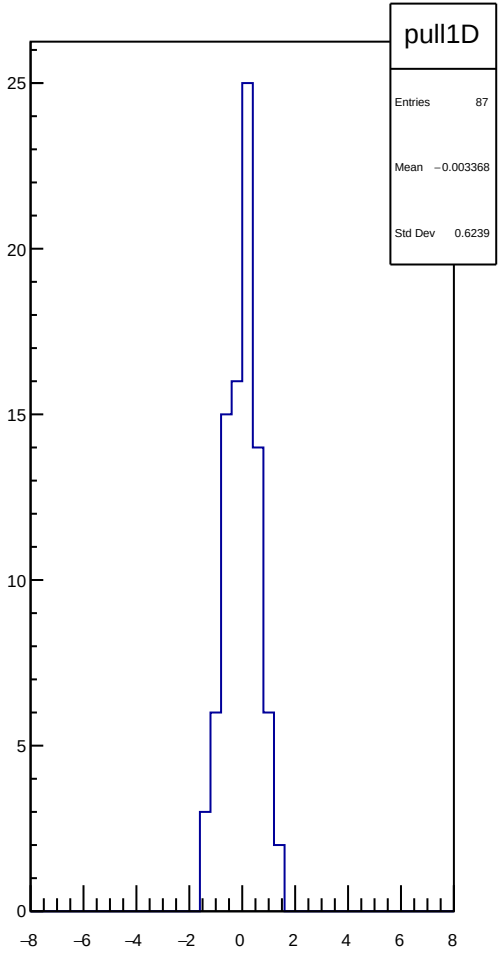

pull1D
Entries 87
Mean 0.001974
Std Dev 0.4243

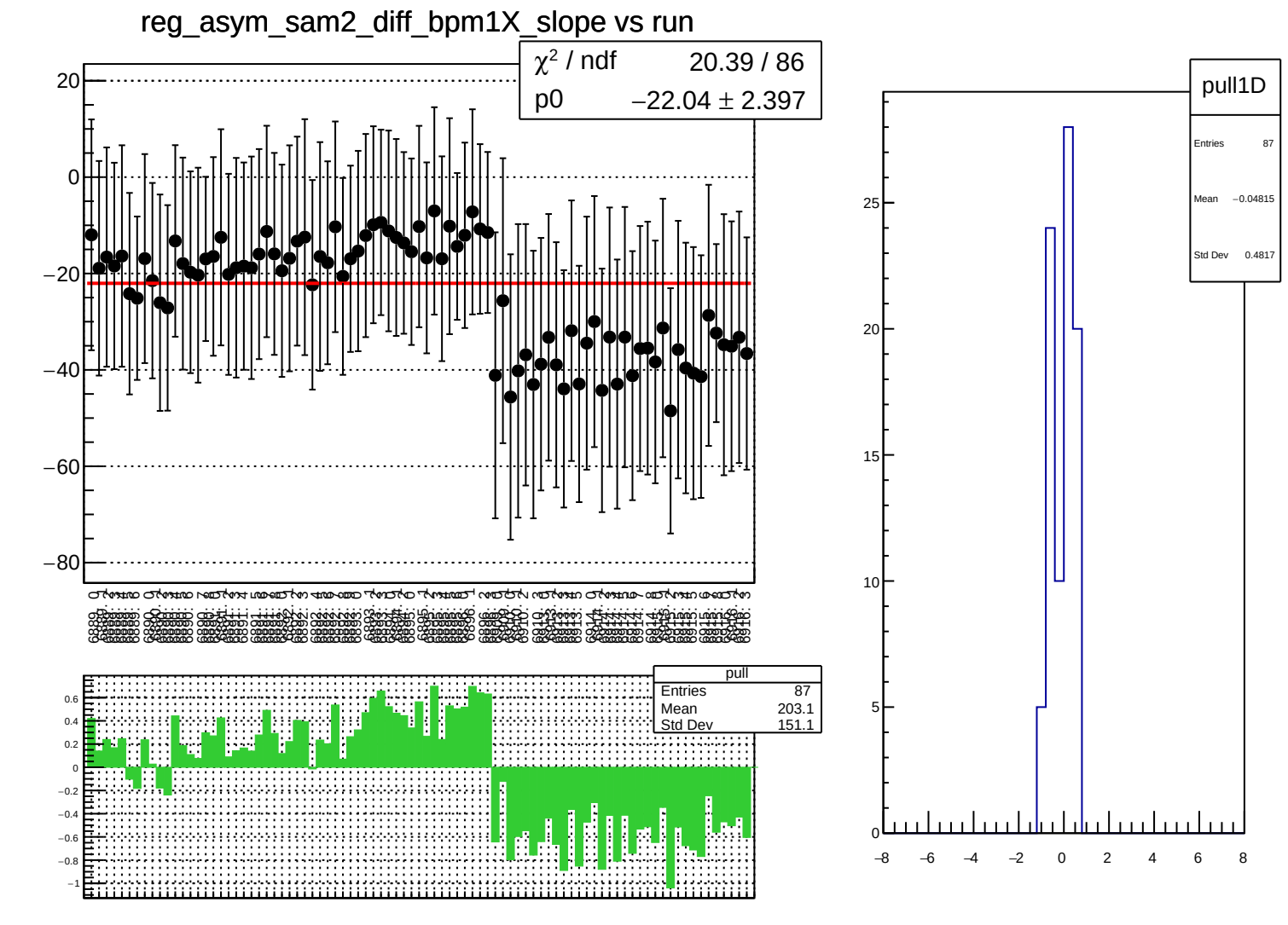

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 138.1 / 86
p0 −15.5 ± 0.3523
pull
Entries 87
Mean 227.1
Std Dev 171.9
pull1D
Entries 87
Mean 0.09941
Std Dev 1.256

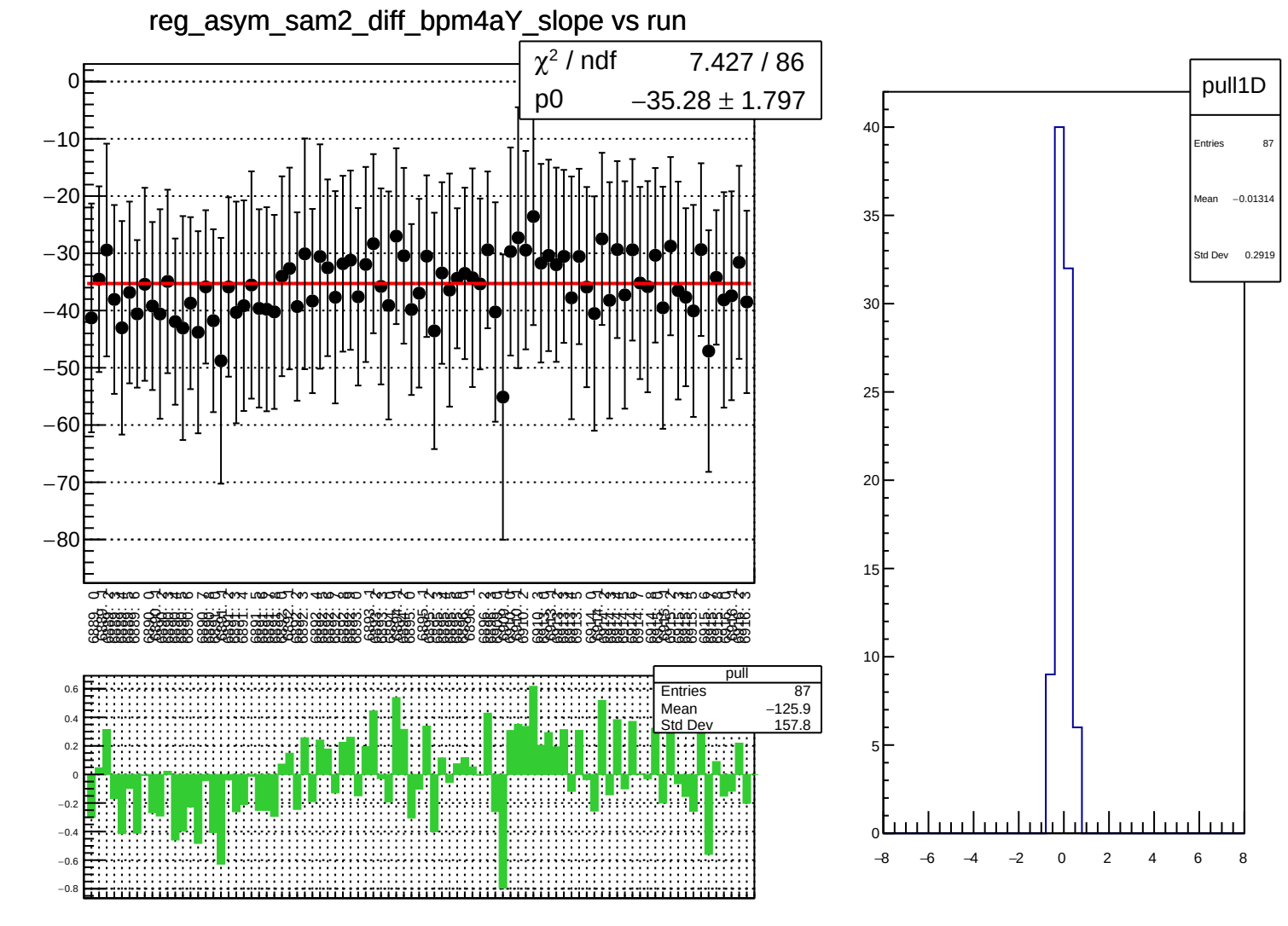

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 23.43 / 86
p0 13.75 ± 0.3265
pull
Entries 87
Mean −1082
Std Dev 1124

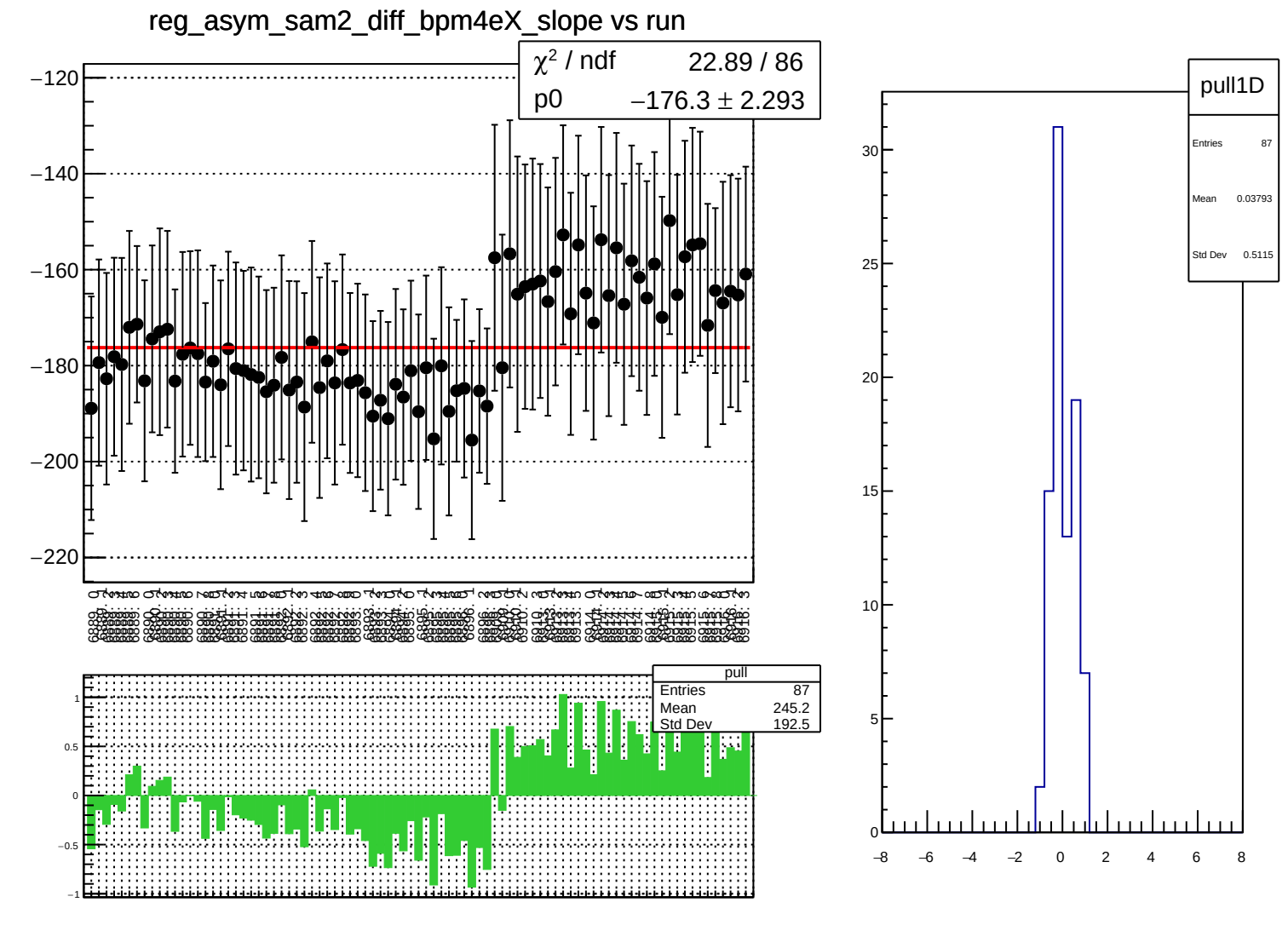

pull1D
Entries 87
Mean 0.006756
Std Dev 0.5189

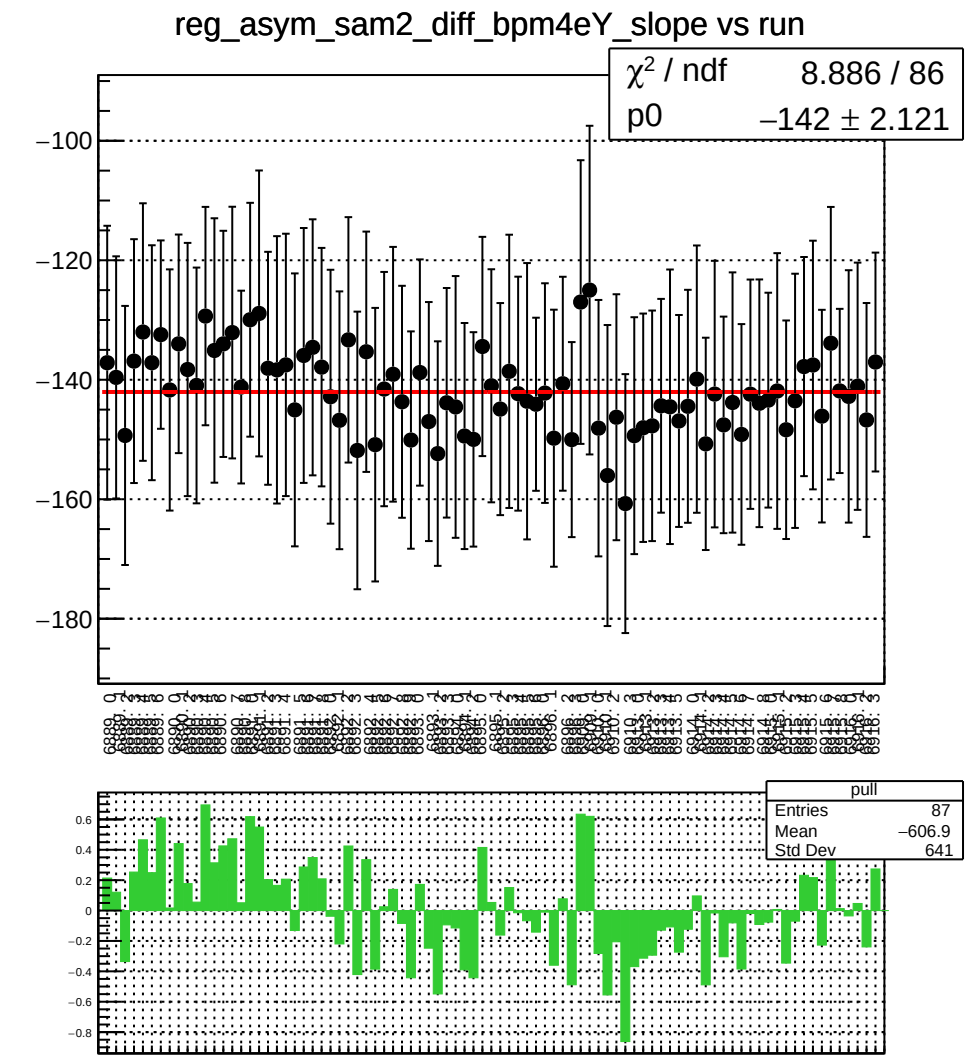

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 33.87 / 86
p0 0.4967 ± 0.01425
pull
Entries 87
Mean −960.8
Std Dev 1030

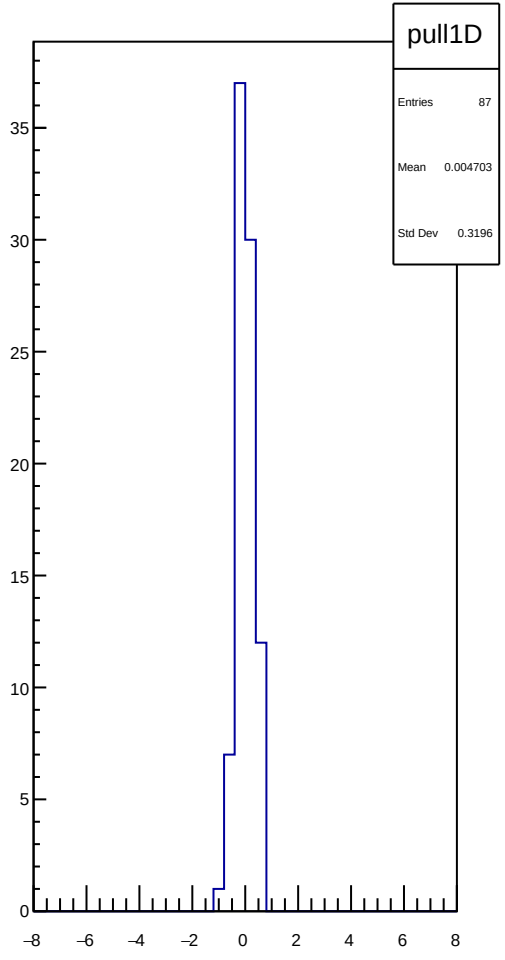

pull1D
Entries 87
Mean −0.003368
Std Dev 0.6239

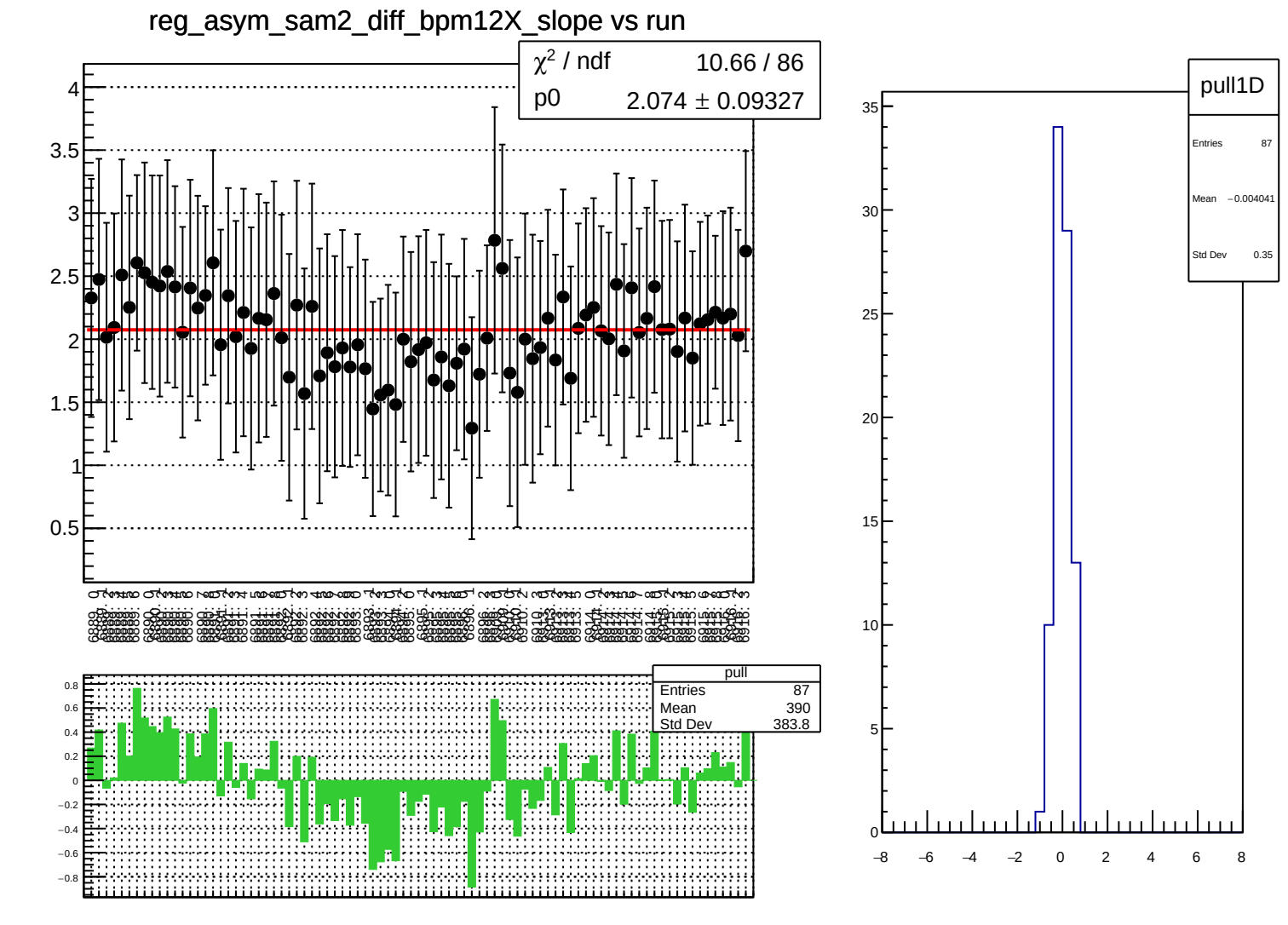

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 20.39 / 86
p0 −22.04 ± 2.397
pull
Entries 87
Mean 203.1
Std Dev 151.1
pull1D
Entries 87
Mean −0.04815
Std Dev 0.4817

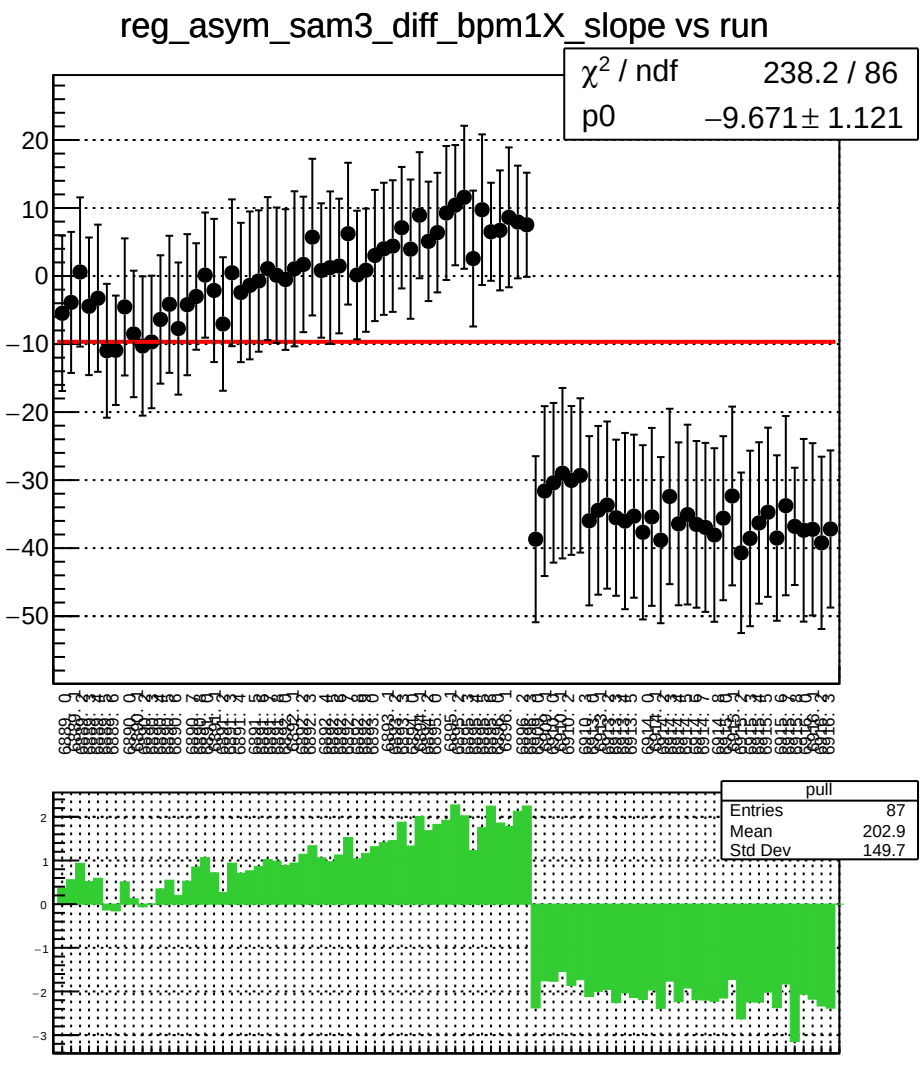

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 7.427 / 86
p0 −35.28 ± 1.797
pull
Entries 87
Mean −125.9
Std Dev 157.8
pull1D
Entries 87
Mean −0.01314
Std Dev 0.2919

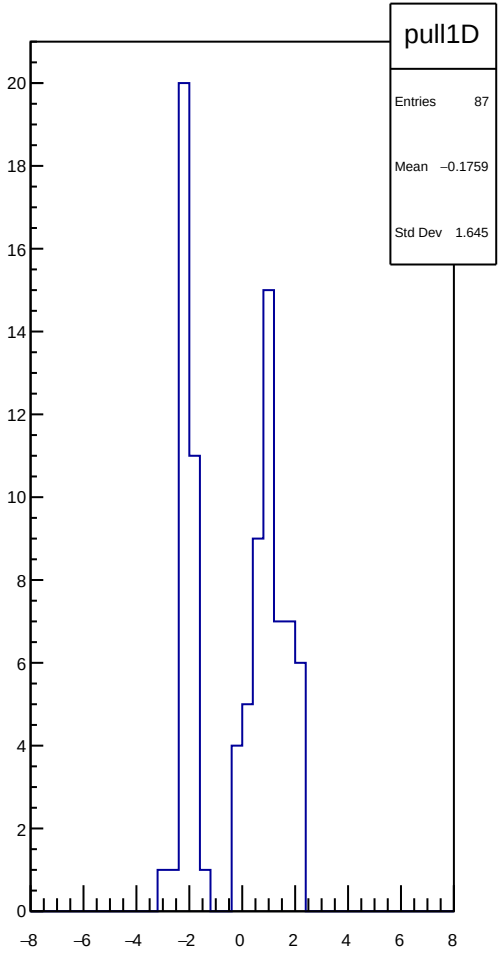

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 22.89 / 86
p0 −176.3 ± 2.293
−120
−140
−160
−180
−200
−220
pull
Entries 87
Mean 245.2
Std Dev 192.5
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.03793
Std Dev 0.5115
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

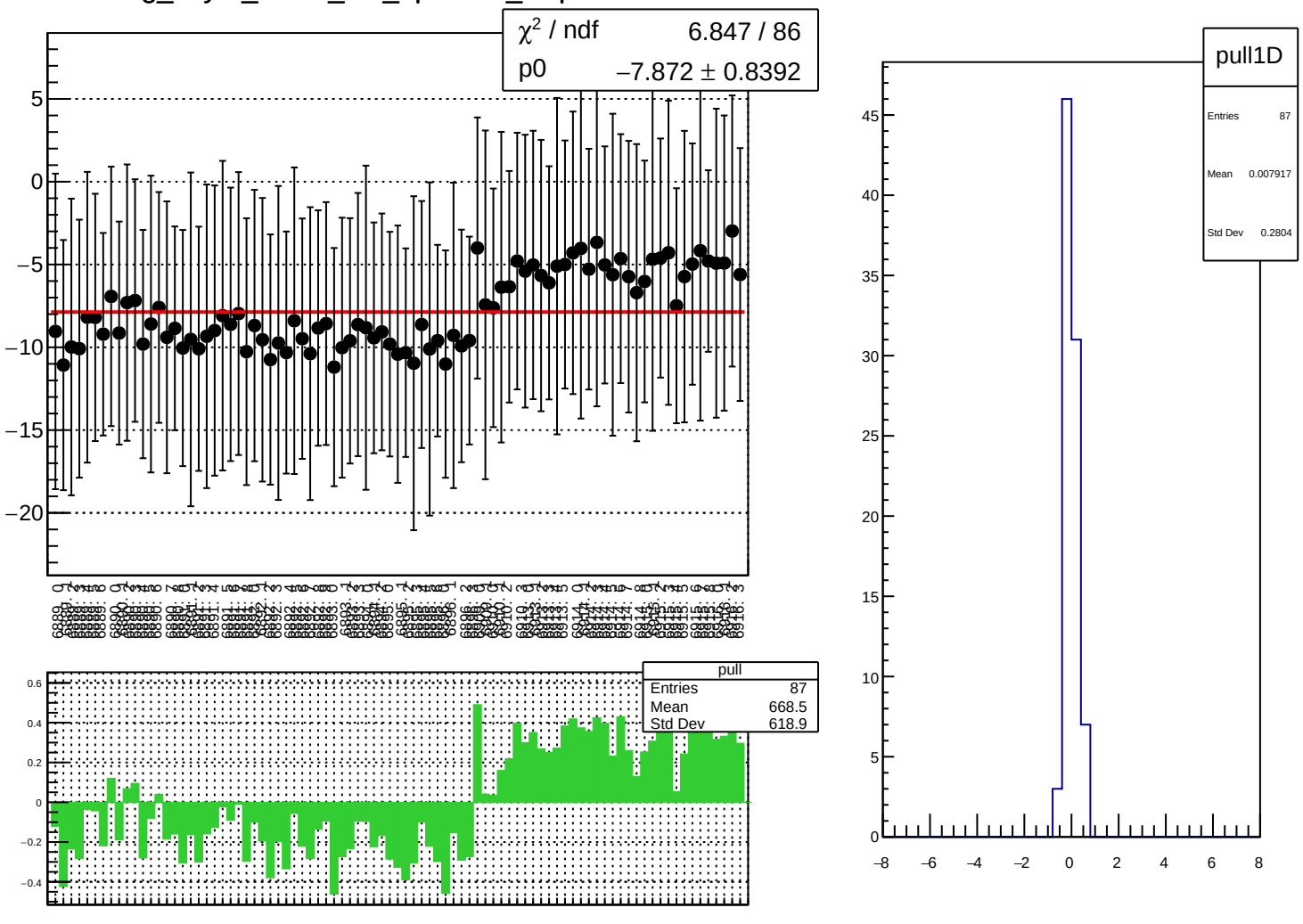

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 8.886 / 86
p0 −142 ± 2.121
−100
−120
−140
−160
−180
pull
Entries 87
Mean −606.9
Std Dev 641
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

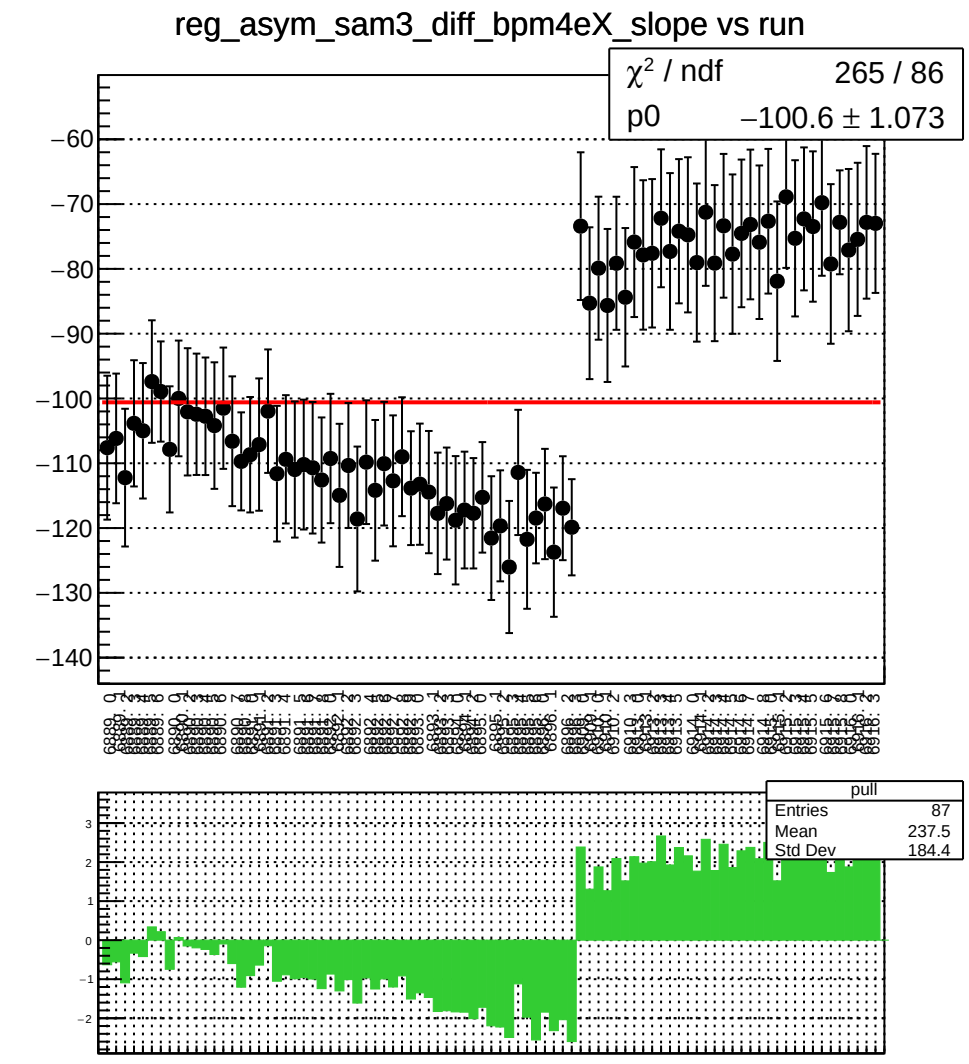

pull1D
Entries 87
Mean 0.004703
Std Dev 0.3196
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

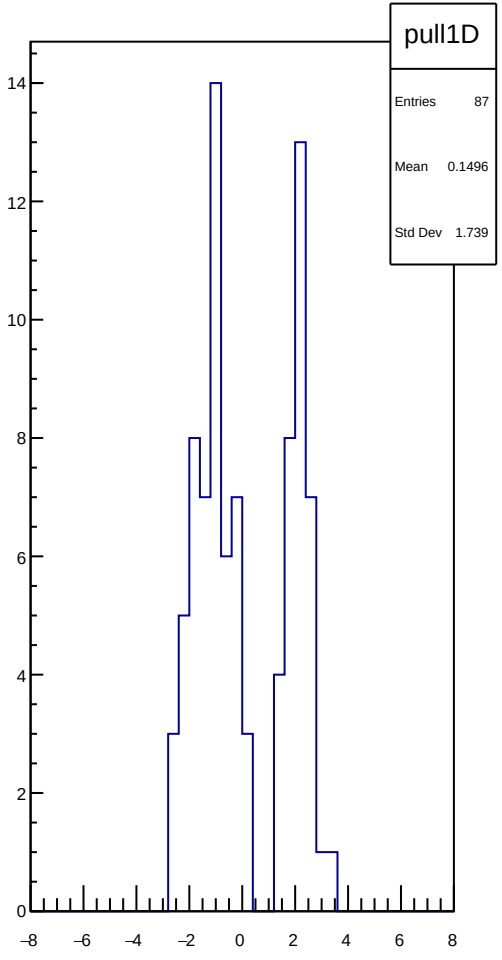

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 10.66 / 86
p0 2.074 ± 0.09327
pull
Entries 87
Mean 390
Std Dev 383.8
pull1D
Entries 87
Mean −0.004041
Std Dev 0.35

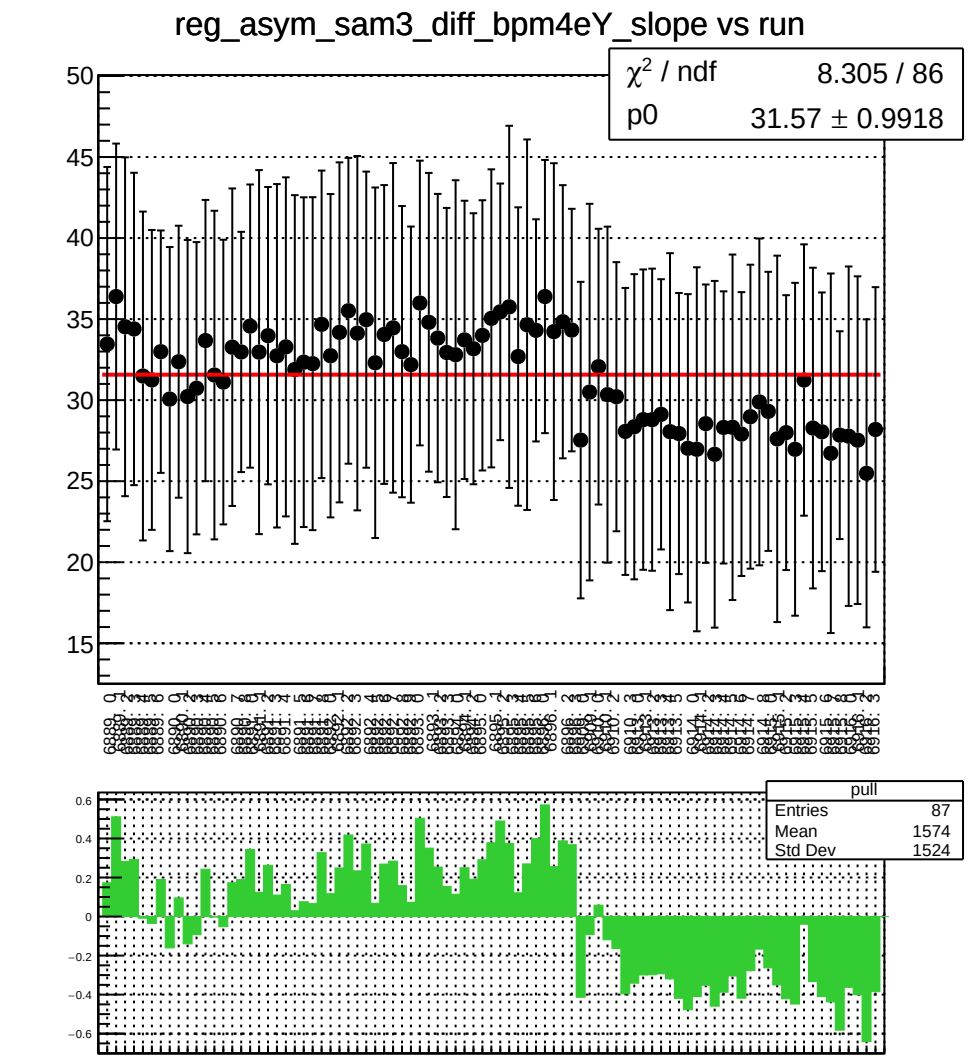

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 238.2 / 86
p0 −9.671 ± 1.121
pull
Entries 87
Mean 202.9
Std Dev 149.7

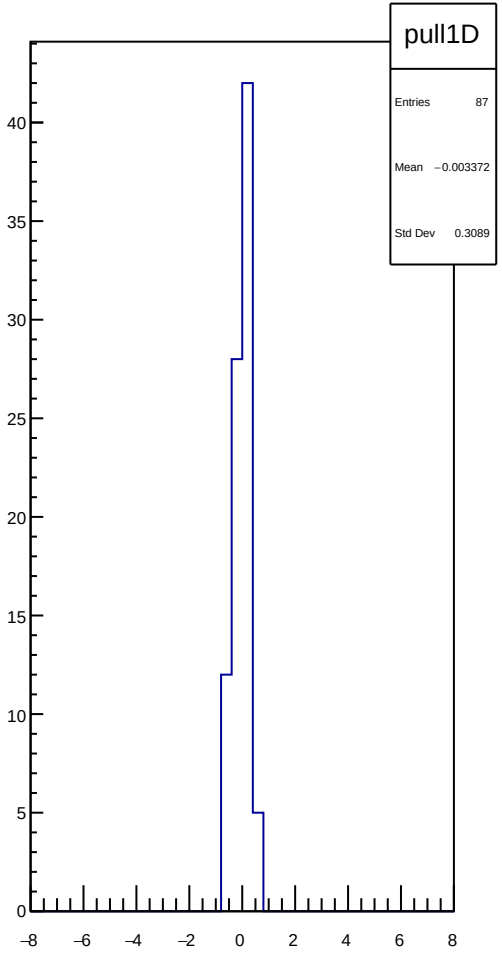

pull1D
Entries 87
Mean −0.1759
Std Dev 1.645

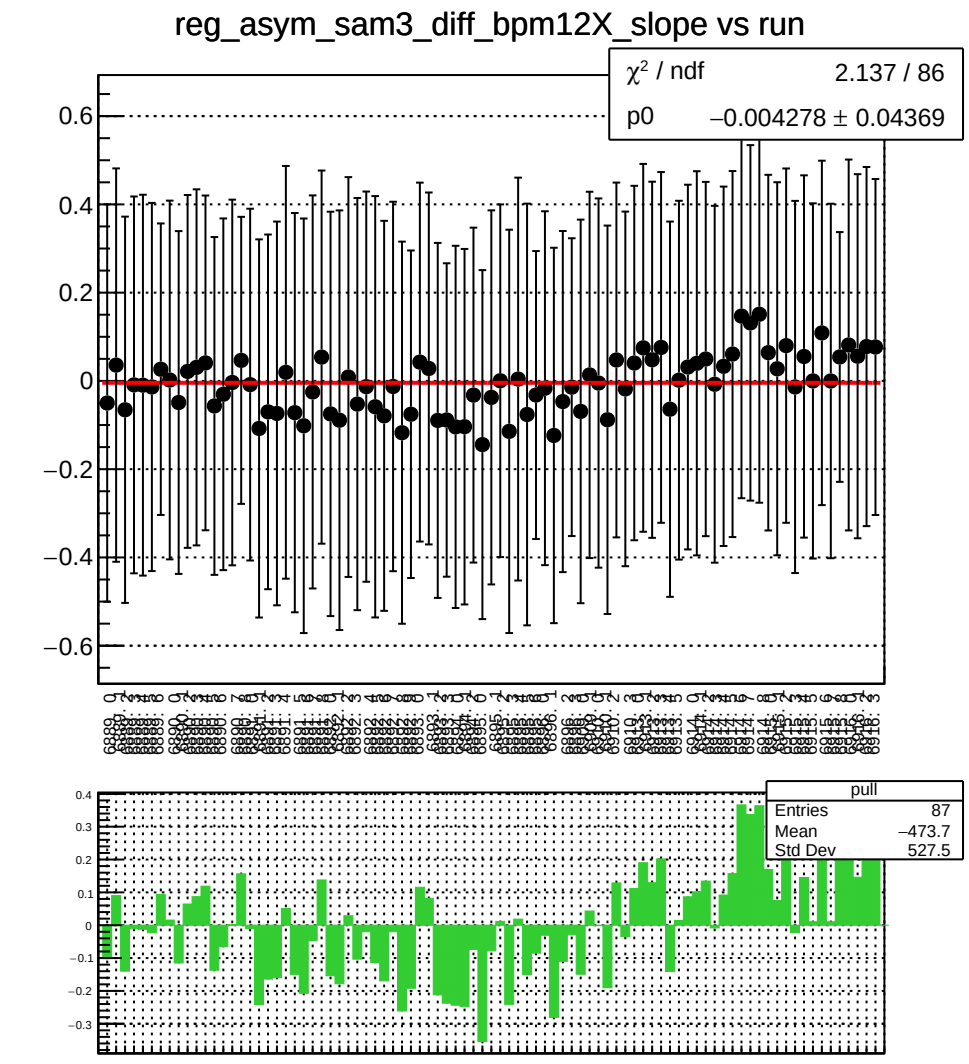

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 6.847 / 86
p0 −7.872 ± 0.8392
pull
Entries 87
Mean 668.5
Std Dev 618.9
pull1D
Entries 87
Mean 0.007917
Std Dev 0.2804

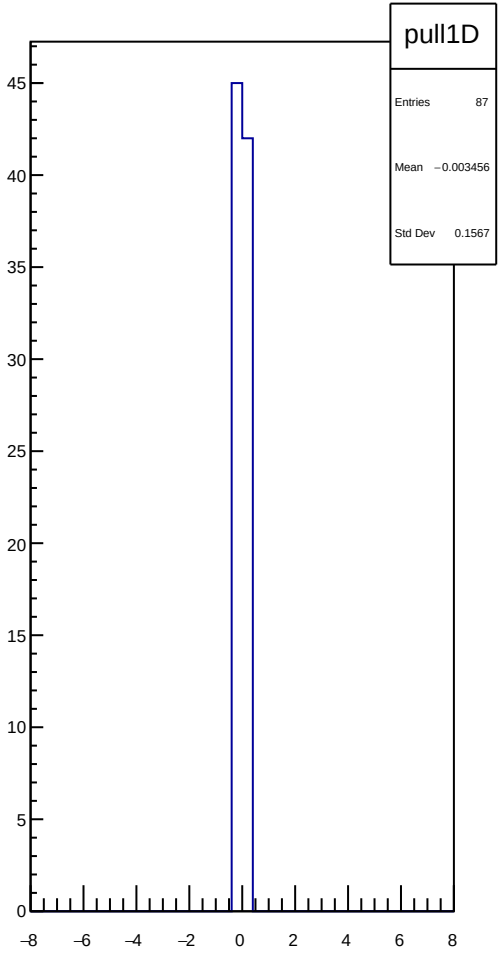

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 265 / 86
p0 −100.6 ± 1.073
pull
Entries 87
Mean 237.5
Std Dev 184.4

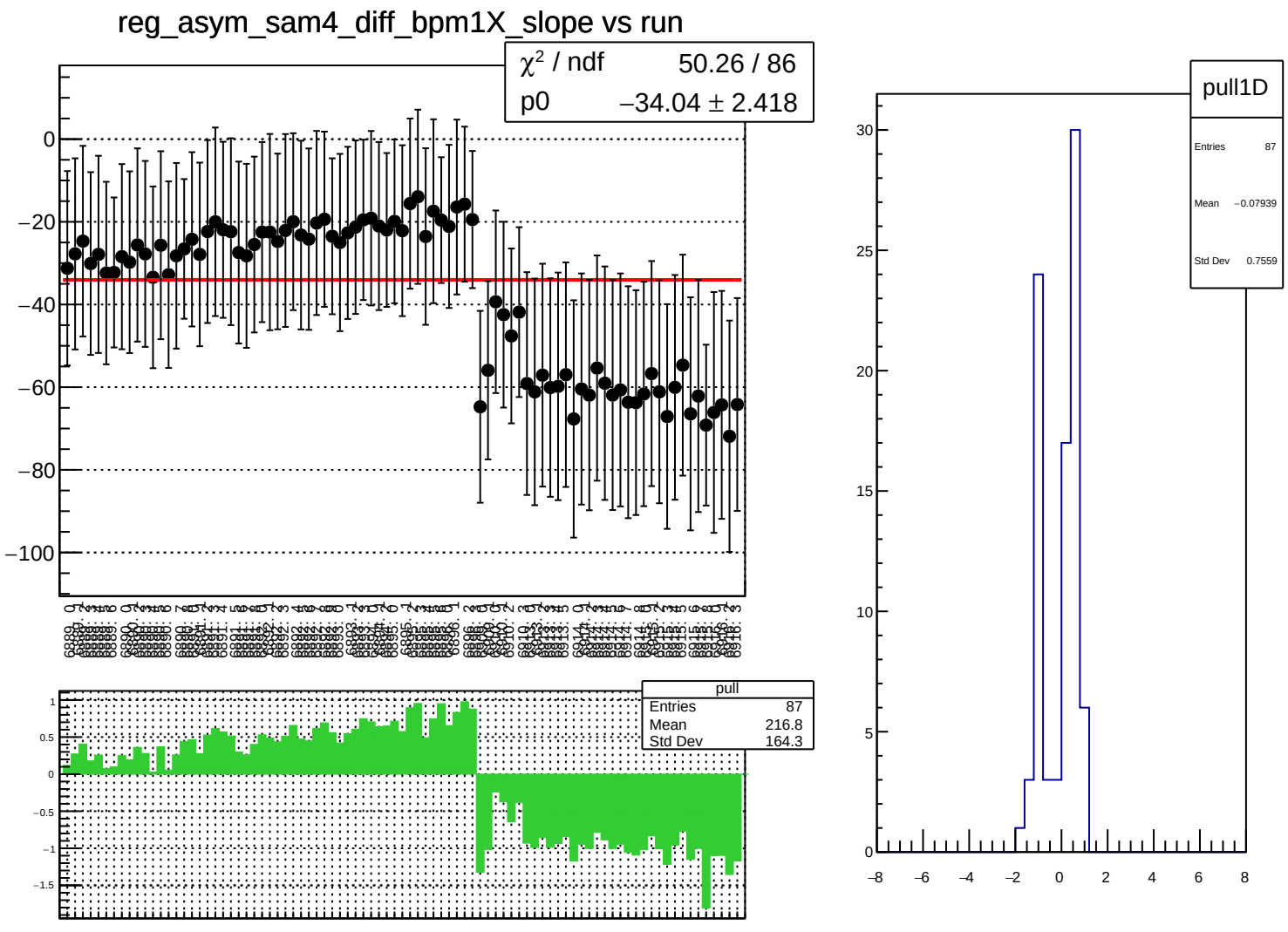

pull1D
Entries 87
Mean 0.1496
Std Dev 1.739

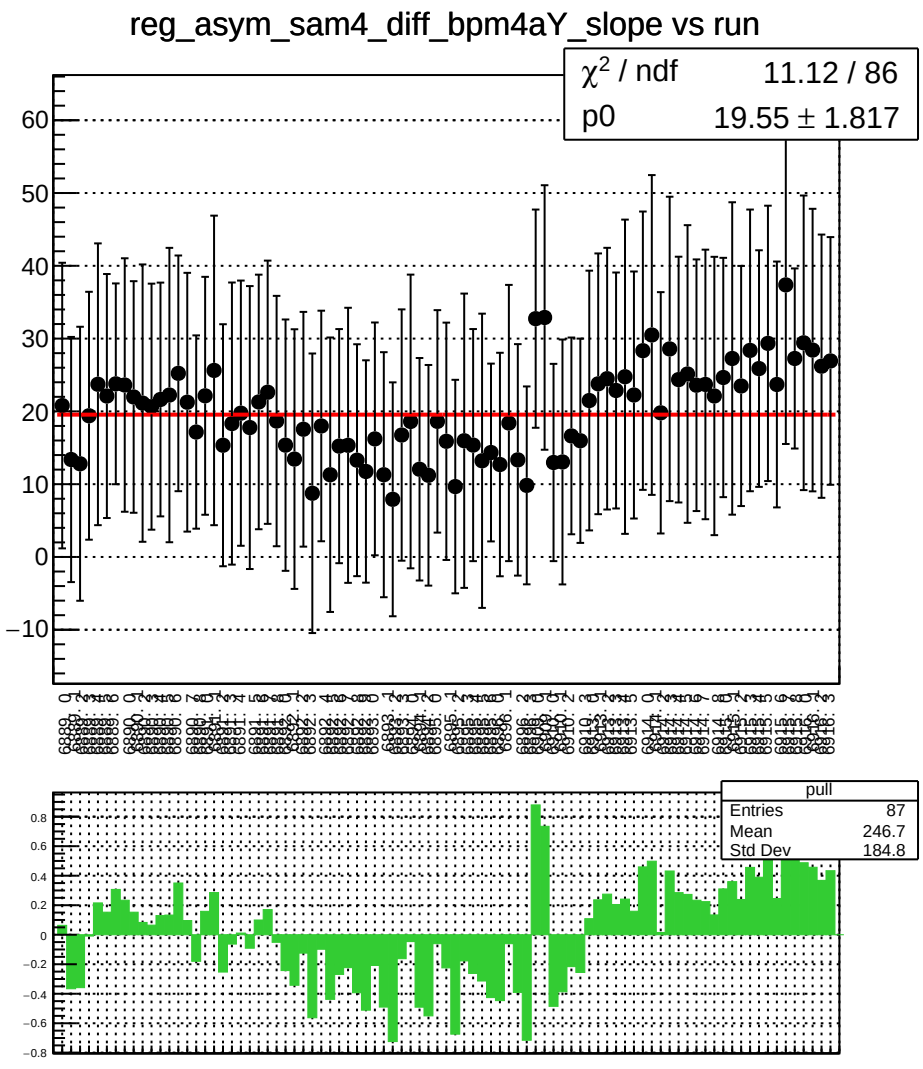

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 8.305 / 86
p0 31.57 ± 0.9918
pull
Entries 87
Mean 1574
Std Dev 1524

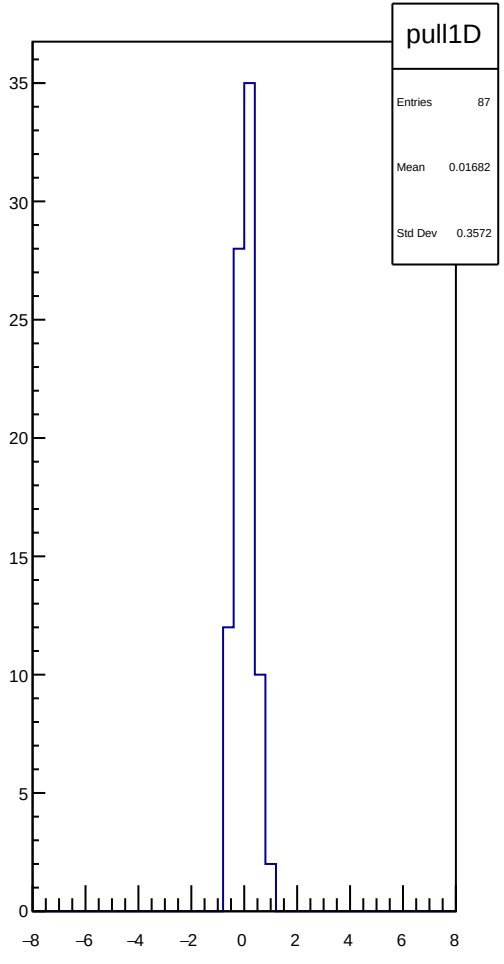

pull1D
Entries 87
Mean −0.003372
Std Dev 0.3089

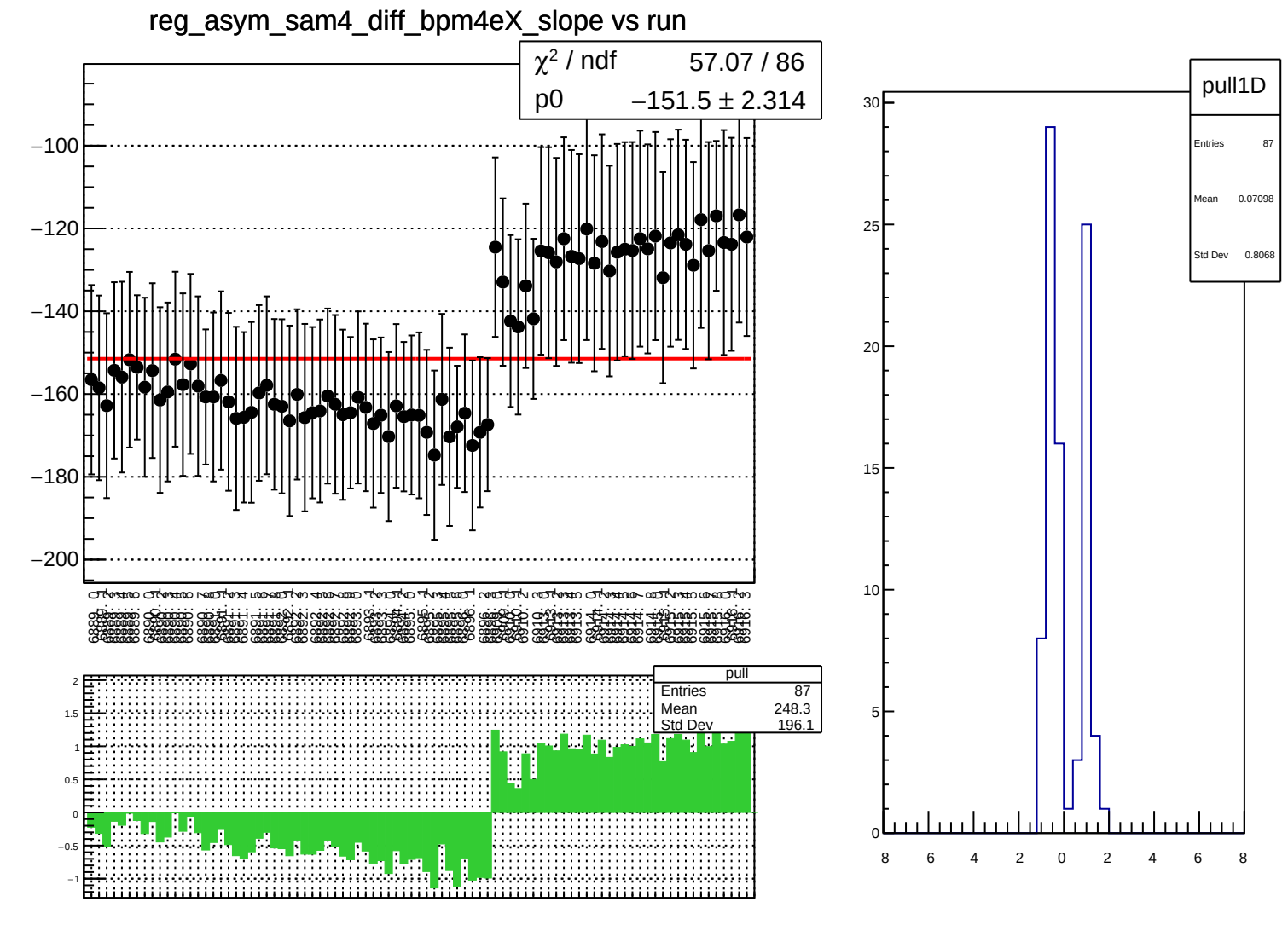

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 2.137 / 86
p0 −0.004278 ± 0.04369
pull
Entries 87
Mean −473.7
Std Dev 527.5

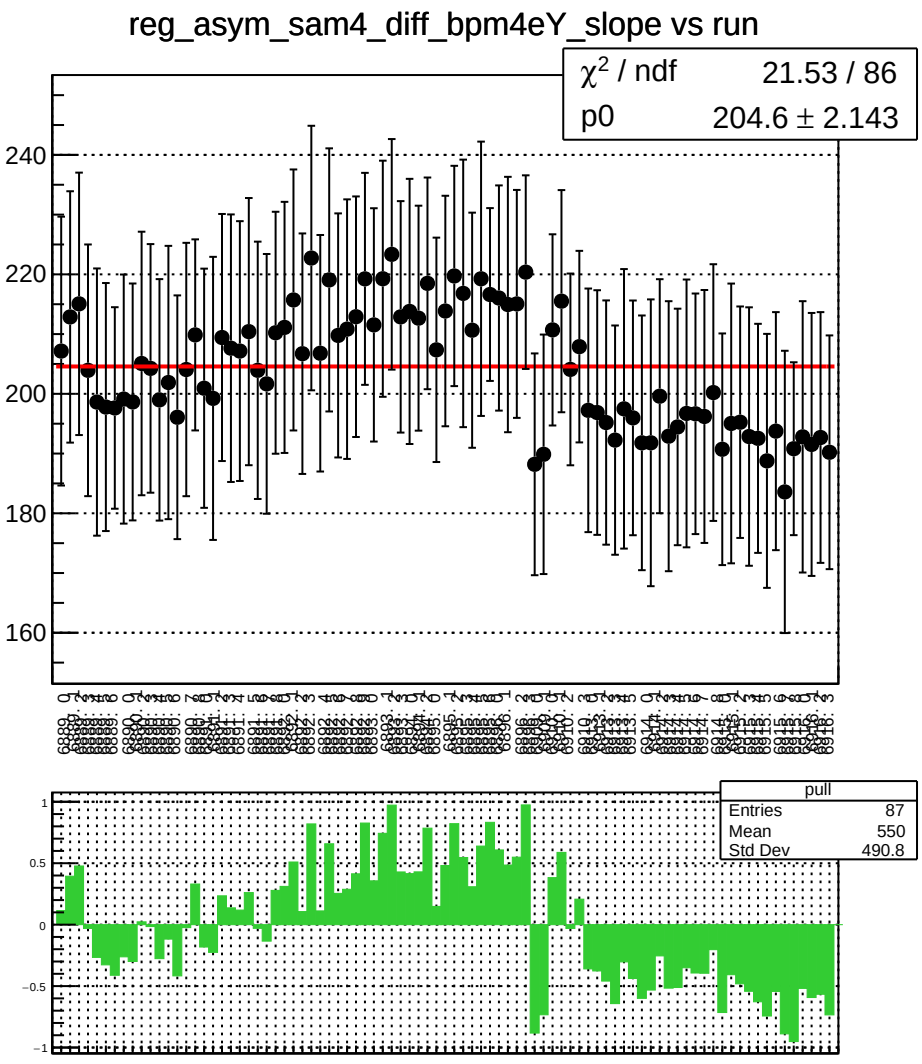

pull1D
Entries 87
Mean −0.003456
Std Dev 0.1567

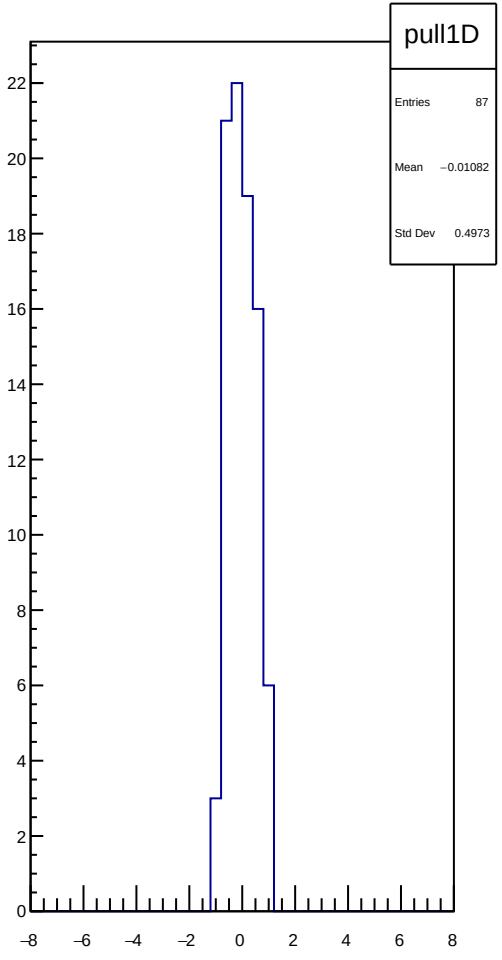

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 50.26 / 86
p0 −34.04 ± 2.418
pull
Entries 87
Mean 216.8
Std Dev 164.3
pull1D
Entries 87
Mean −0.07939
Std Dev 0.7559

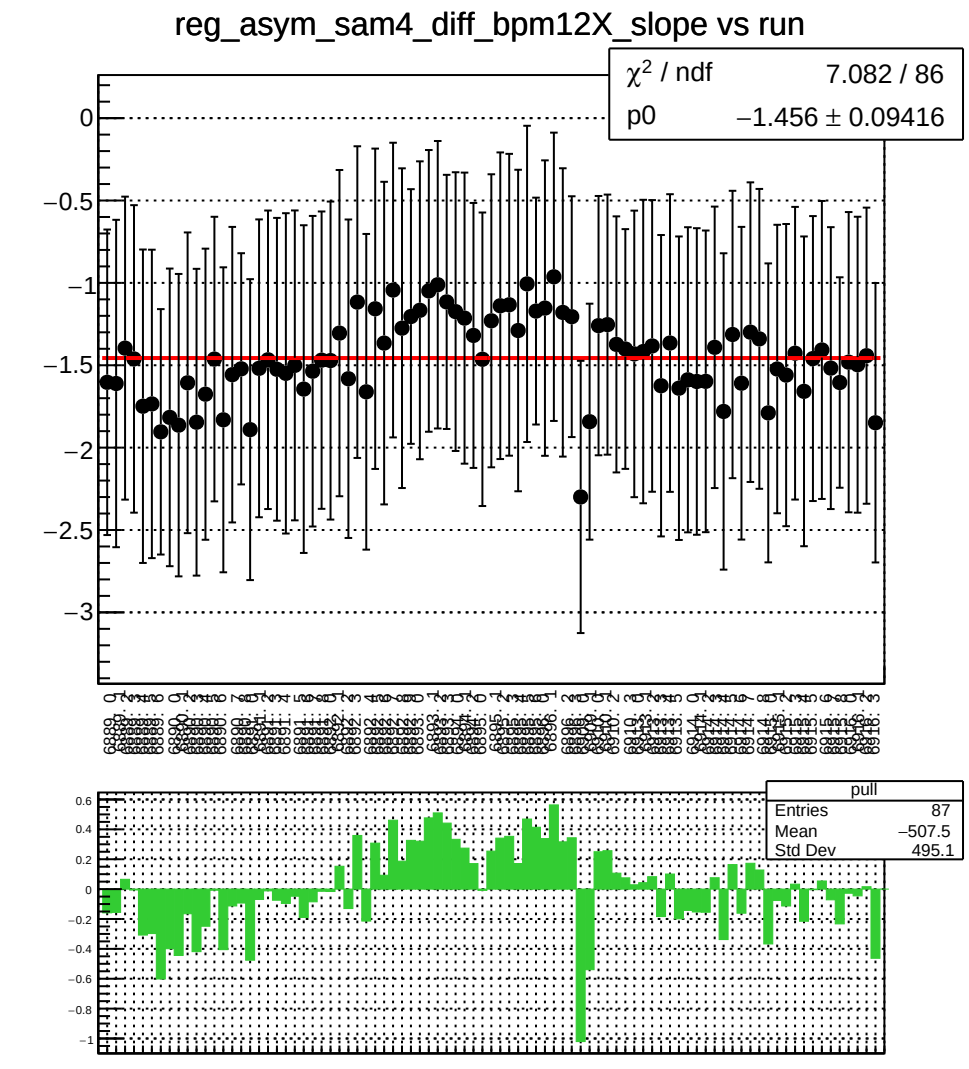

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 11.12 / 86
p0 19.55 ± 1.817
pull
Entries 87
Mean 246.7
Std Dev 184.8

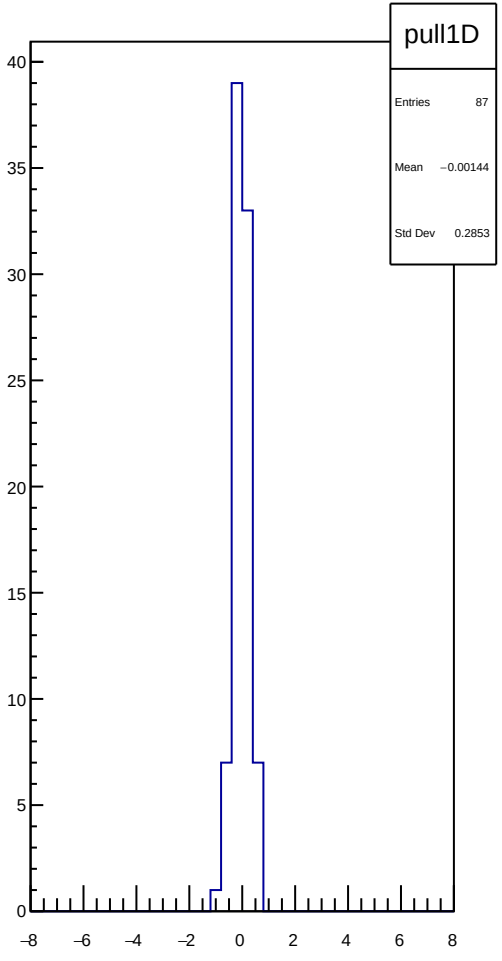

pull1D
Entries 87
Mean 0.01682
Std Dev 0.3572

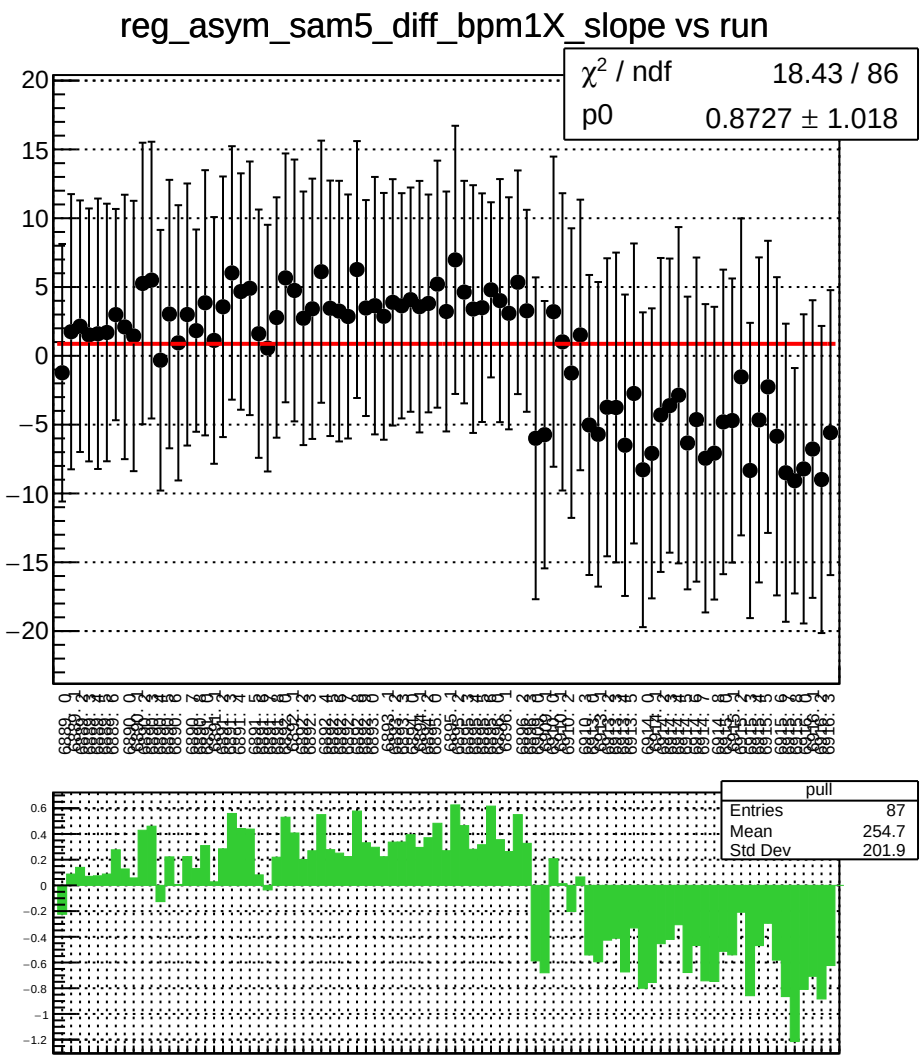

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 57.07 / 86
p0 −151.5 ± 2.314
−100
−120
−140
−160
−180
−200
pull
Entries 87
Mean 248.3
Std Dev 196.1
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.07098
Std Dev 0.8068
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

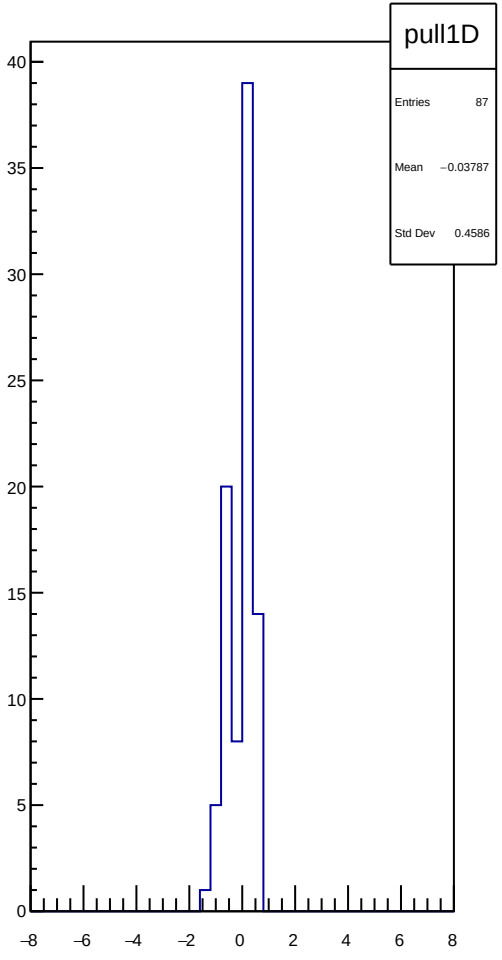

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 21.53 / 86
p0 204.6 ± 2.143
240
220
200
180
160
pull
Entries 87
Mean 550
Std Dev 490.8
1
0.5
0
−0.5
−1

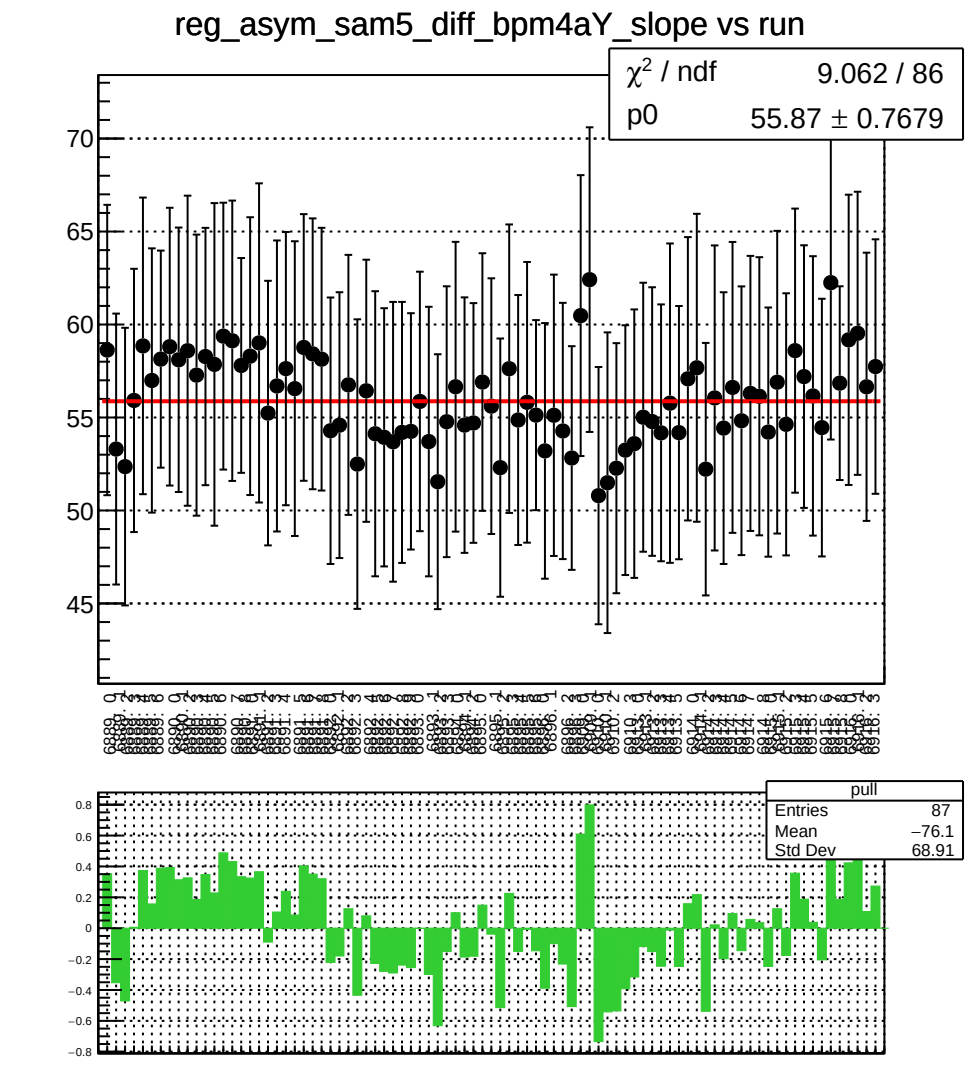

pull1D
Entries 87
Mean −0.01082
Std Dev 0.4973
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

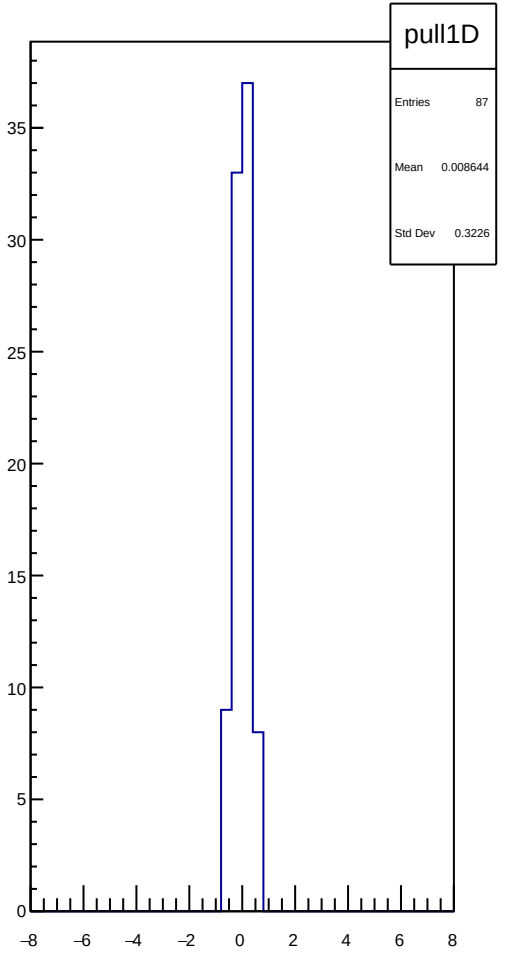

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 7.082 / 86
p0 −1.456 ± 0.09416
pull
Entries 87
Mean −507.5
Std Dev 495.1

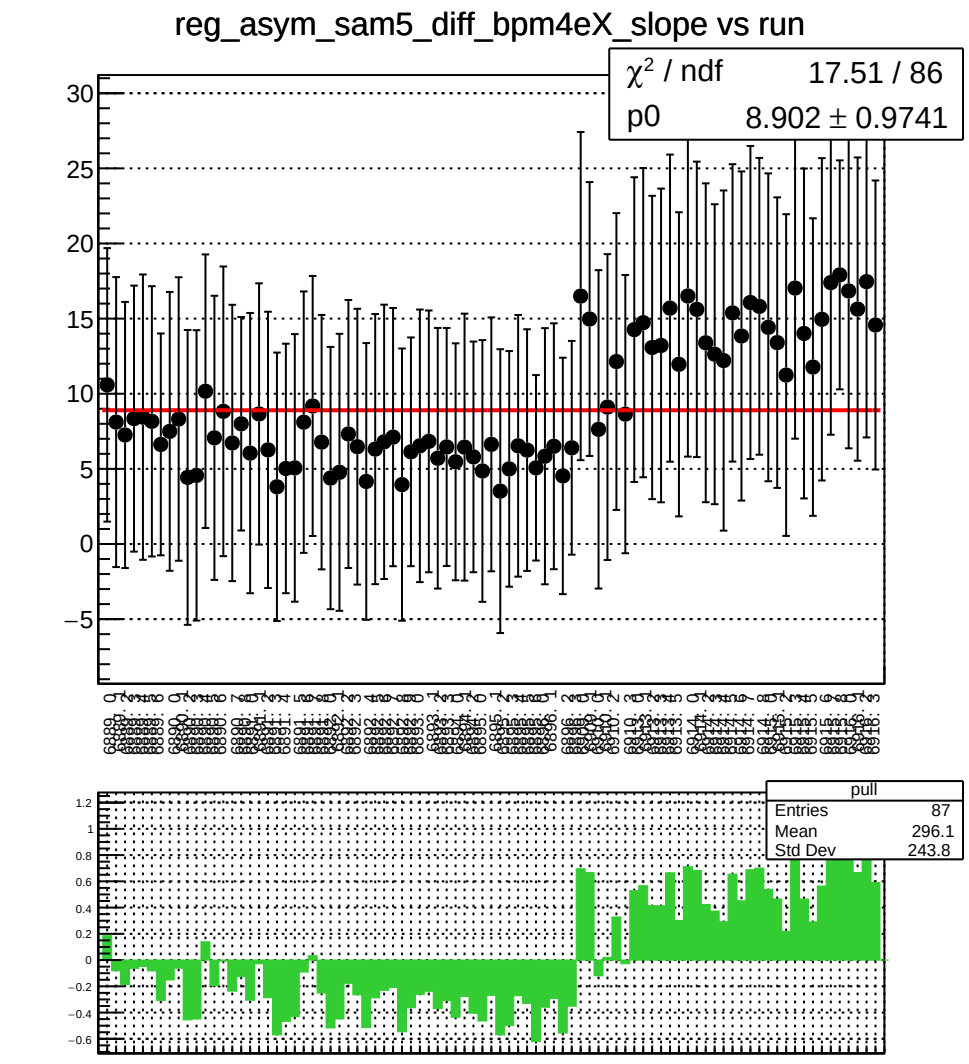

pull1D
Entries 87
Mean −0.00144
Std Dev 0.2853

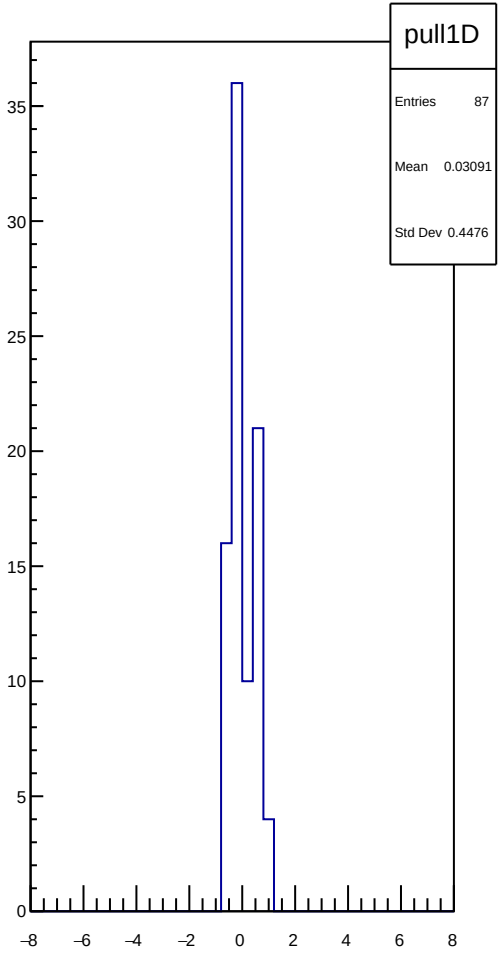

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 18.43 / 86
p0 0.8727 ± 1.018
pull
Entries 87
Mean 254.7
Std Dev 201.9

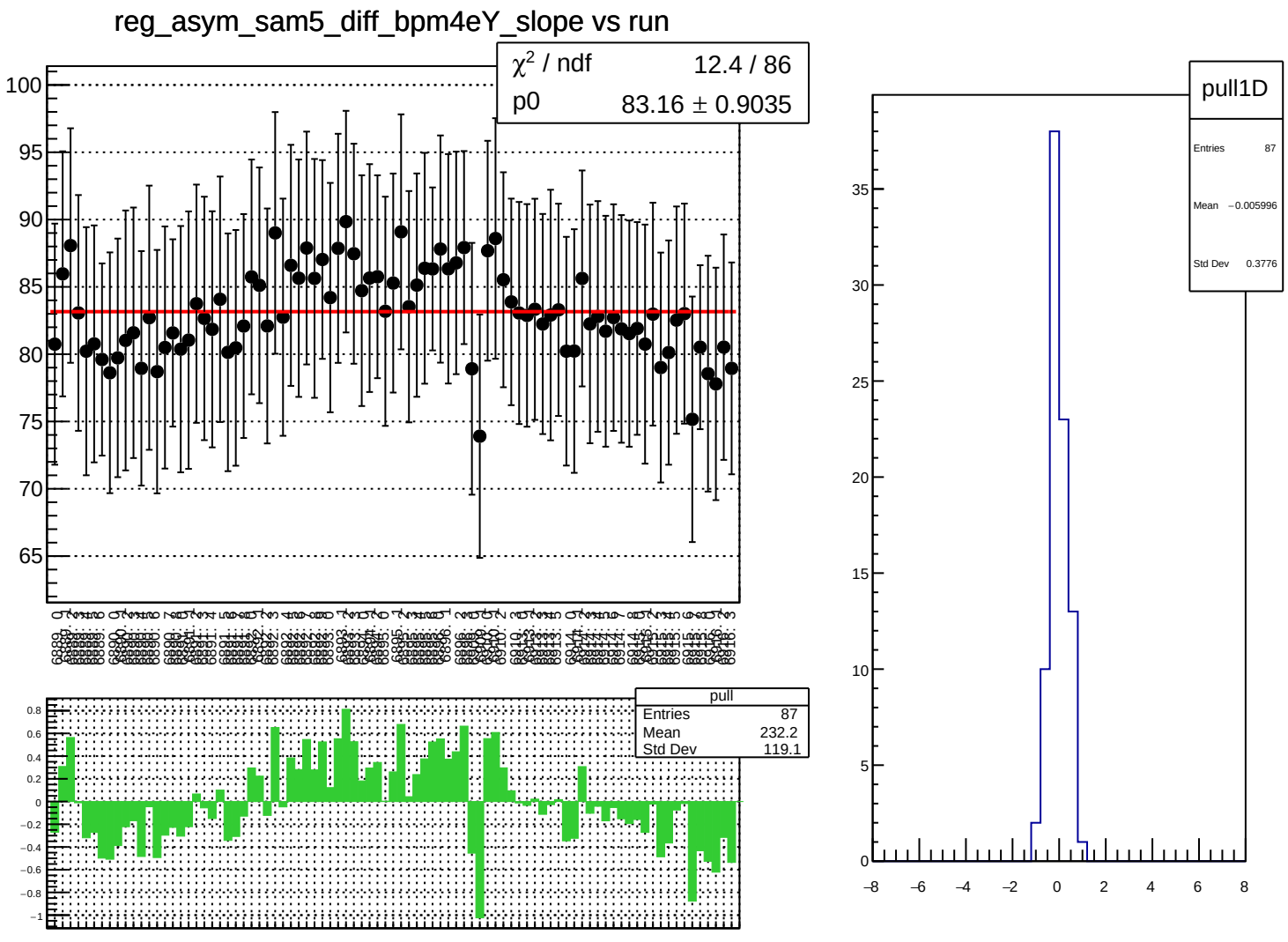

pull1D
Entries 87
Mean −0.03787
Std Dev 0.4586

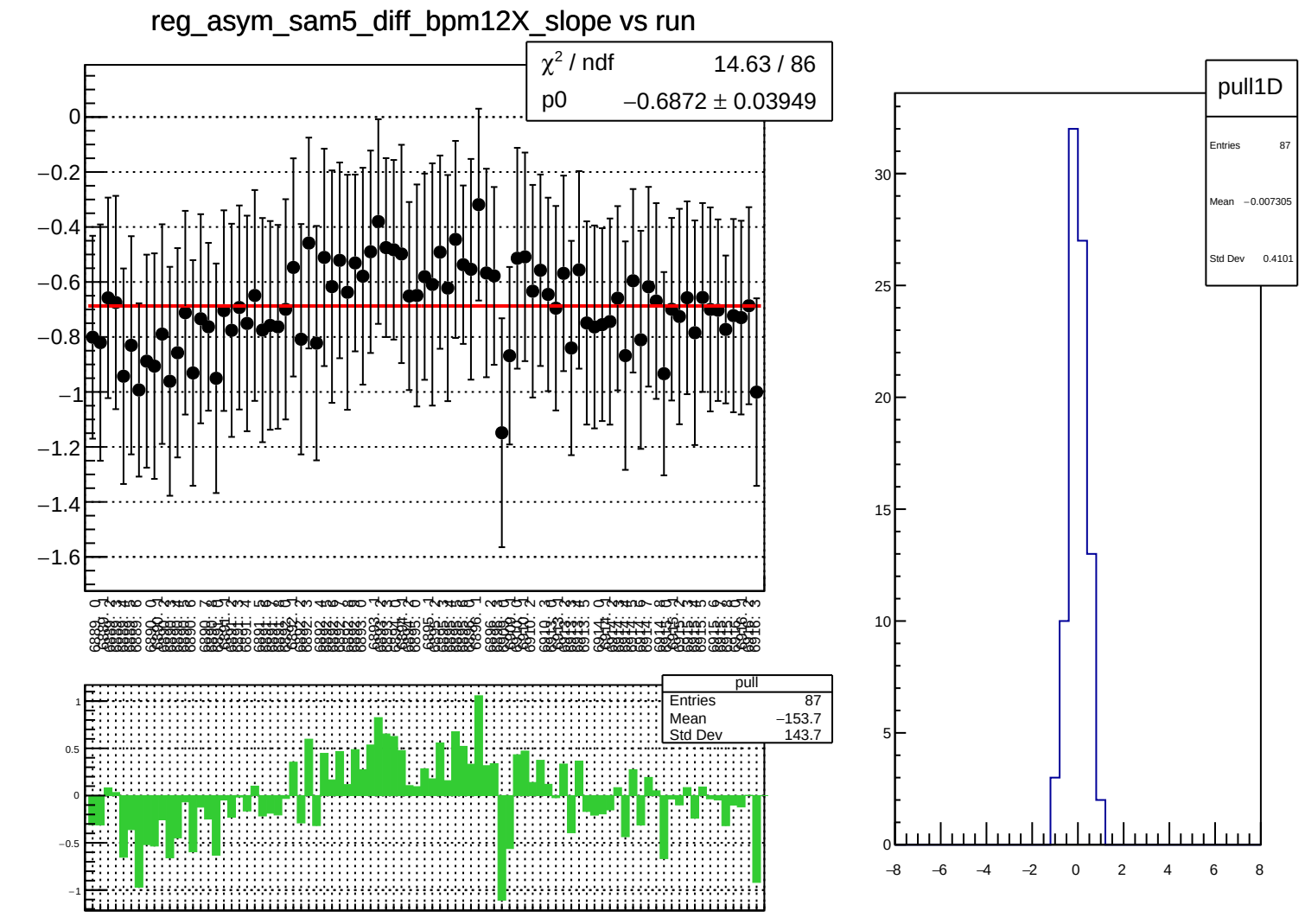

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 9.062 / 86
p0 55.87 ± 0.7679
70
65
60
55
50
45
pull
Entries 87
Mean −76.1
Std Dev 68.91
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

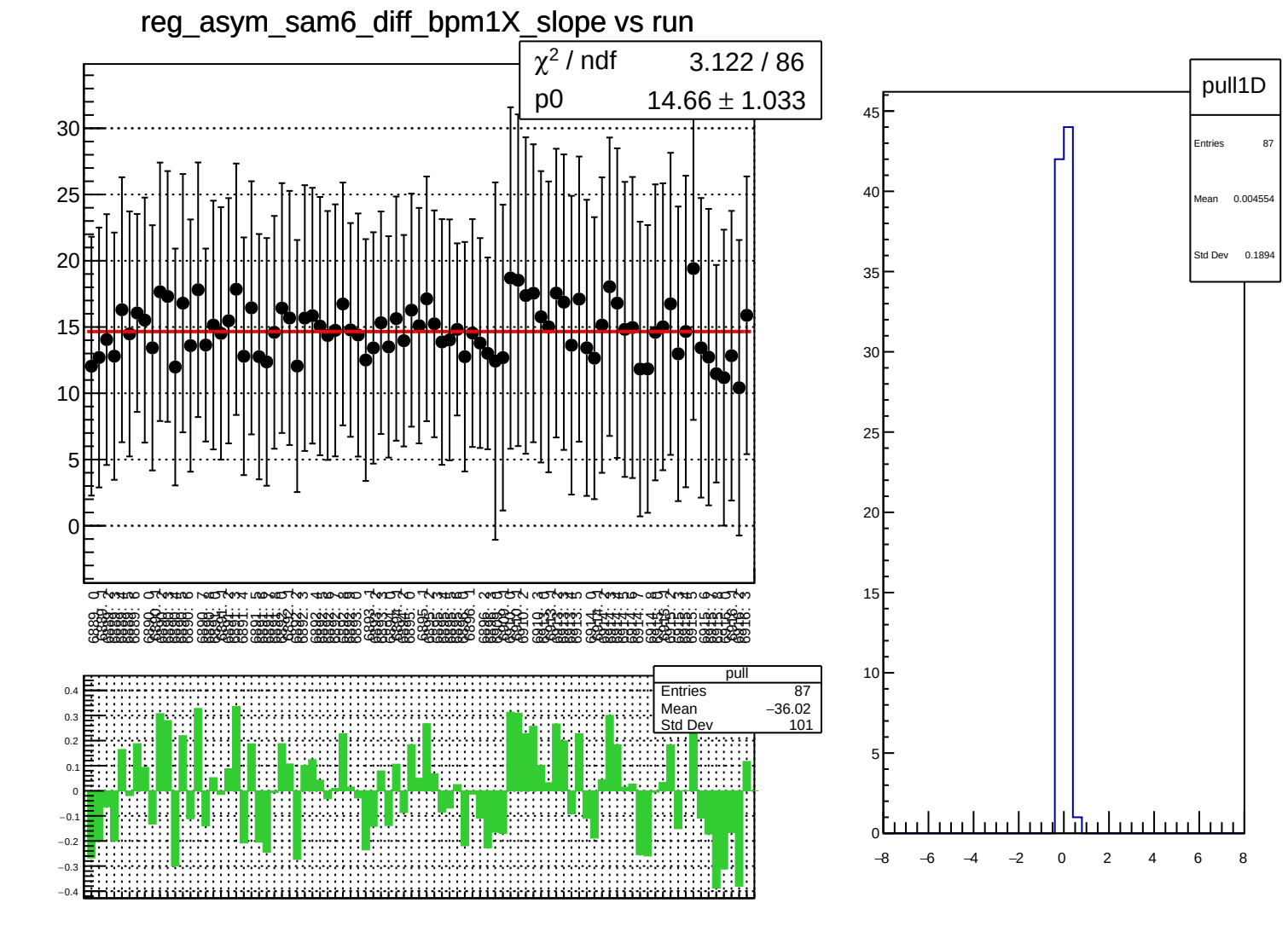

pull1D
Entries 87
Mean 0.008644
Std Dev 0.3226
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

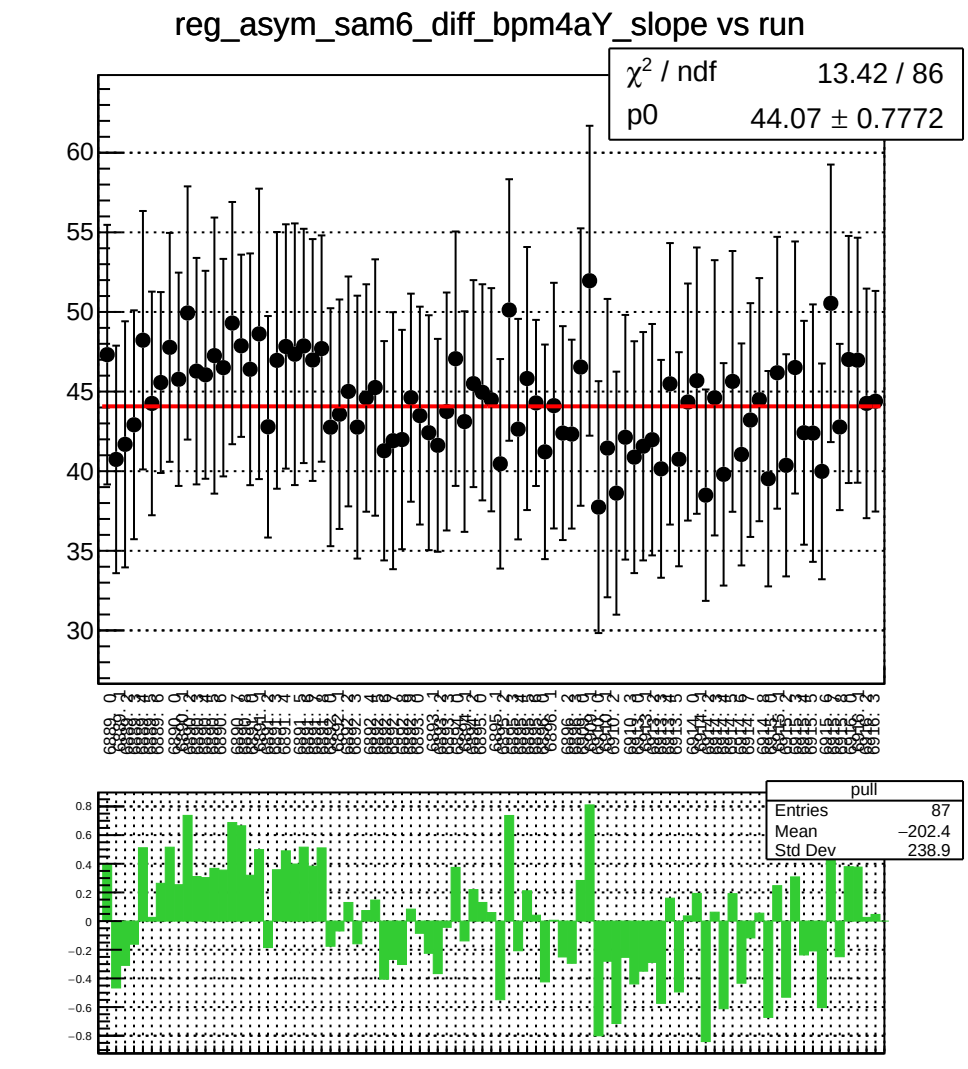

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 17.51 / 86
p0 8.902 ± 0.9741
pull
Entries 87
Mean 296.1
Std Dev 243.8

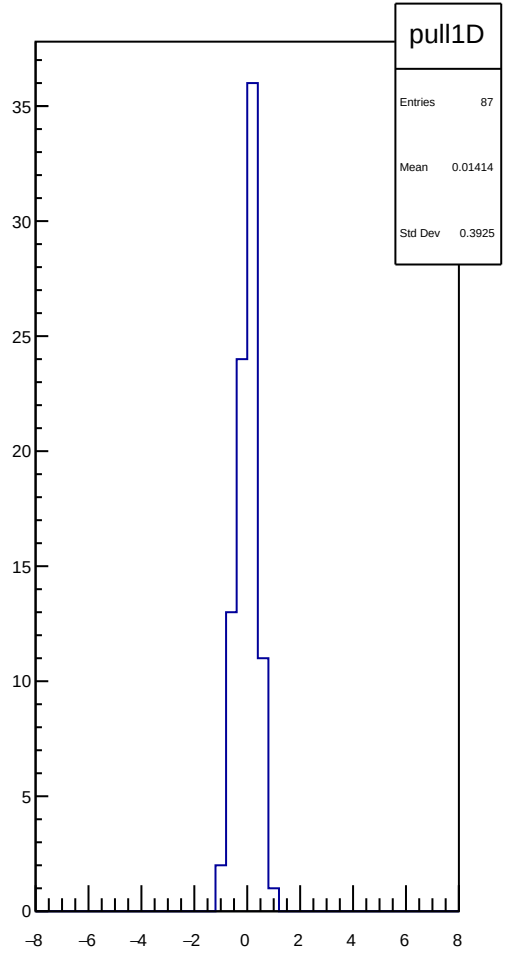

pull1D
Entries 87
Mean 0.03091
Std Dev 0.4476

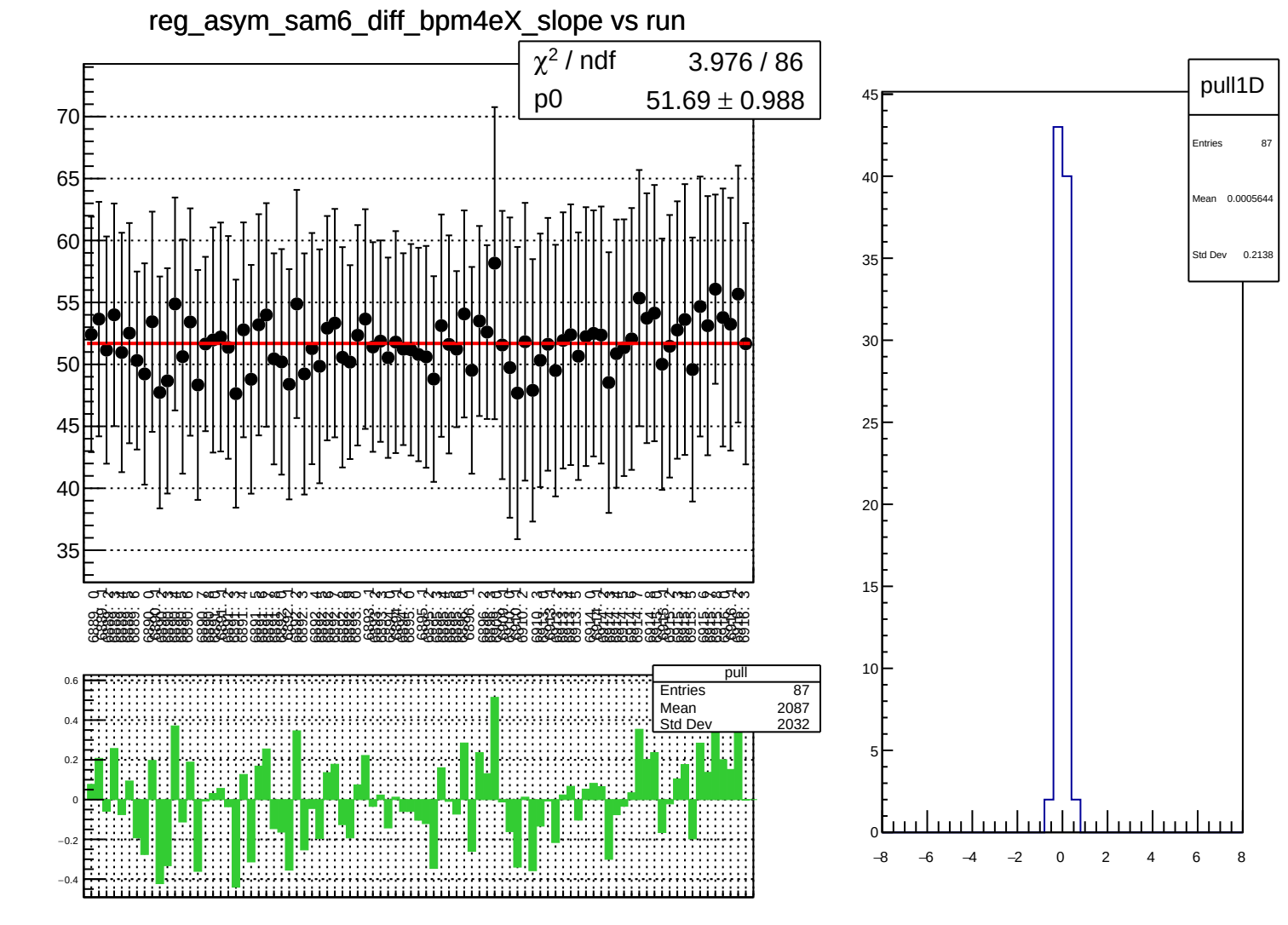

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 12.4 / 86
p0 83.16 ± 0.9035
pull
Entries 87
Mean 232.2
Std Dev 119.1
pull1D
Entries 87
Mean −0.005996
Std Dev 0.3776

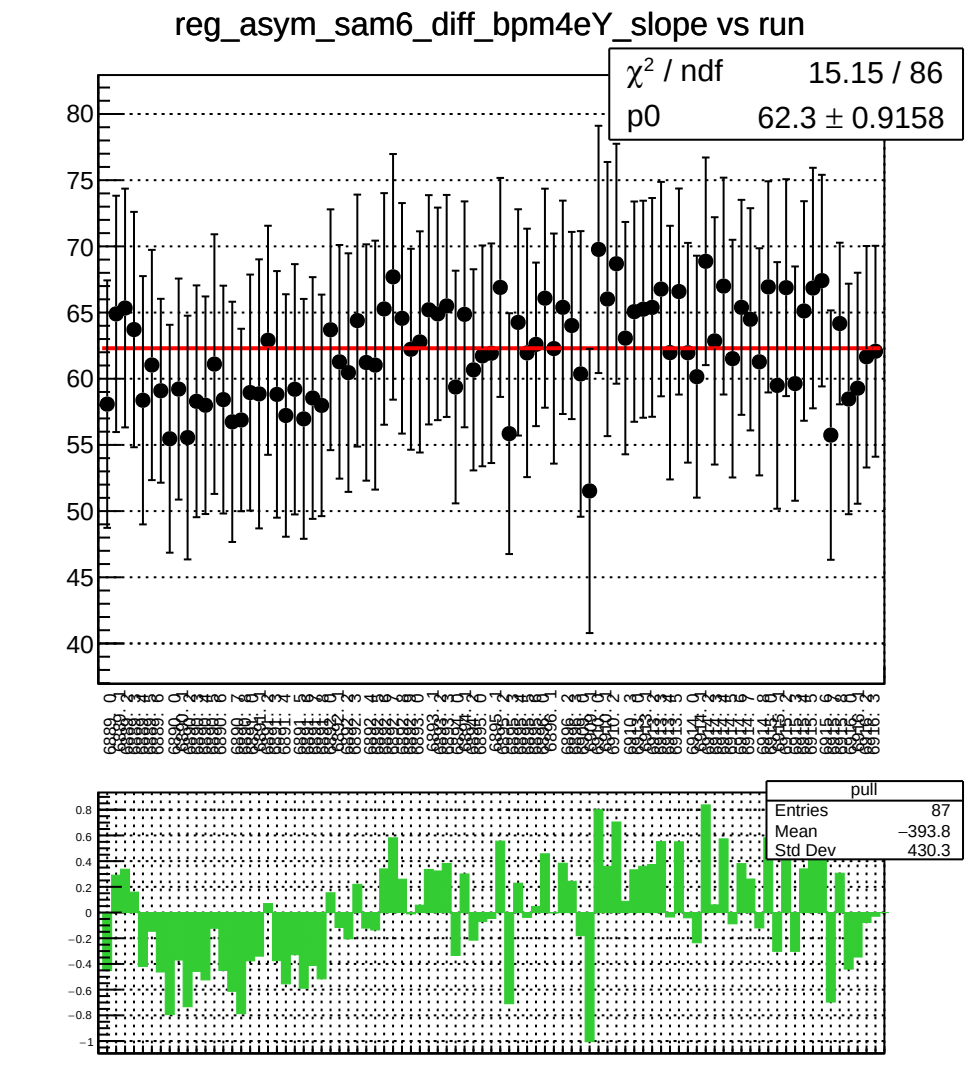

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 14.63 / 86
p0 −0.6872 ± 0.03949
pull
Entries 87
Mean −153.7
Std Dev 143.7
pull1D
Entries 87
Mean −0.007305
Std Dev 0.4101

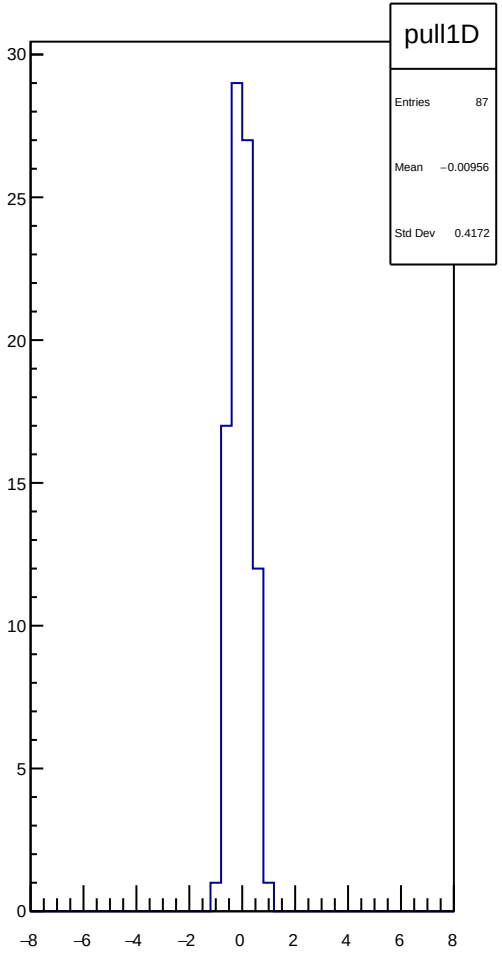

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 3.122 / 86
p0 14.66 ± 1.033
pull
Entries 87
Mean −36.02
Std Dev 101
pull1D
Entries 87
Mean 0.004554
Std Dev 0.1894

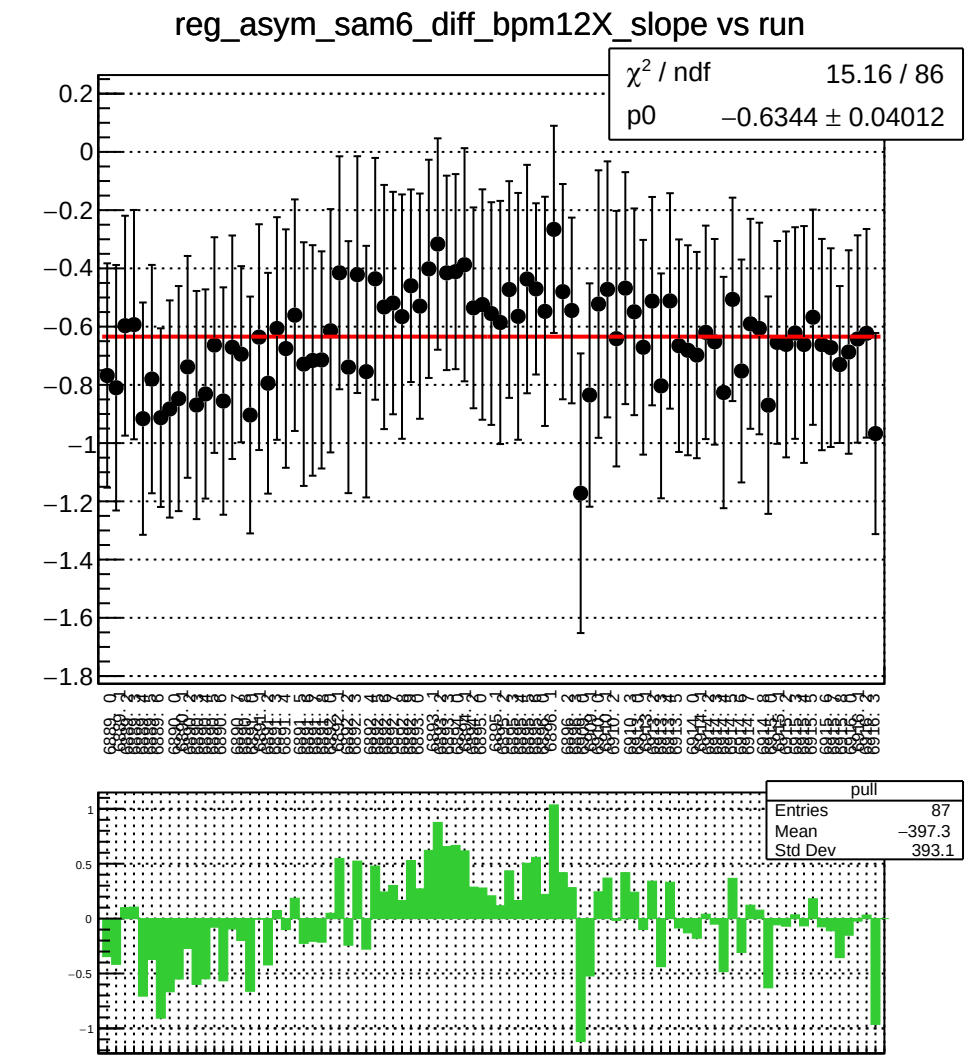

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 13.42 / 86
p0 44.07 ± 0.7772
pull
Entries 87
Mean −202.4
Std Dev 238.9

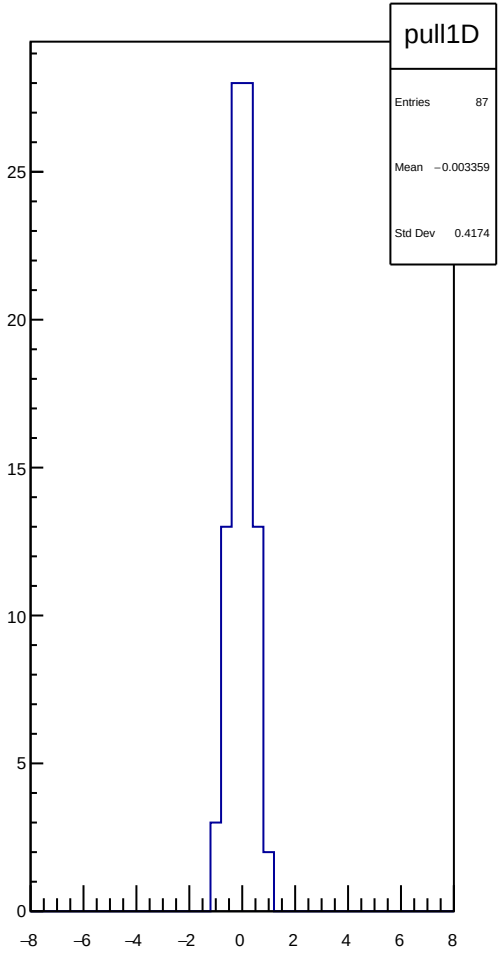

pull1D
Entries 87
Mean 0.01414
Std Dev 0.3925

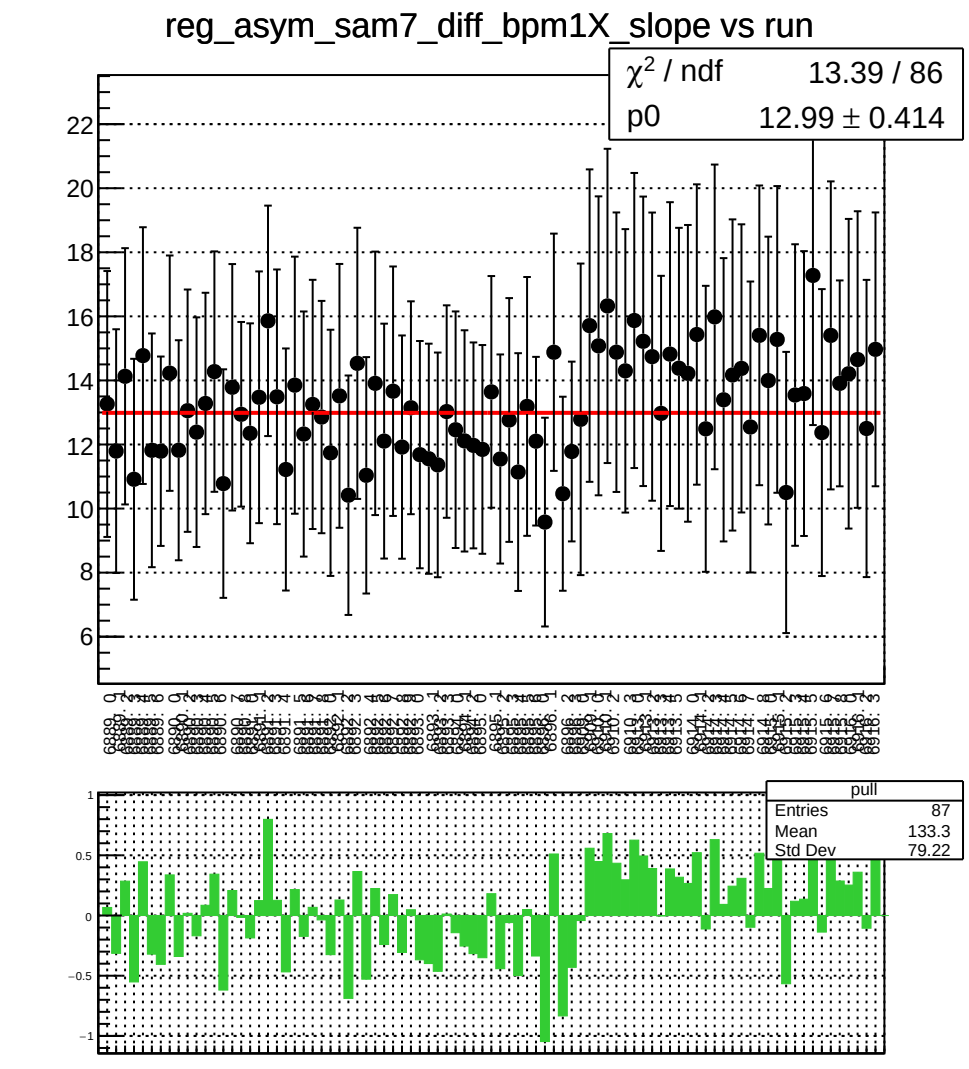

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 3.976 / 86
p0 51.69 ± 0.988
pull
Entries 87
Mean 2087
Std Dev 2032
pull1D
Entries 87
Mean 0.0005644
Std Dev 0.2138

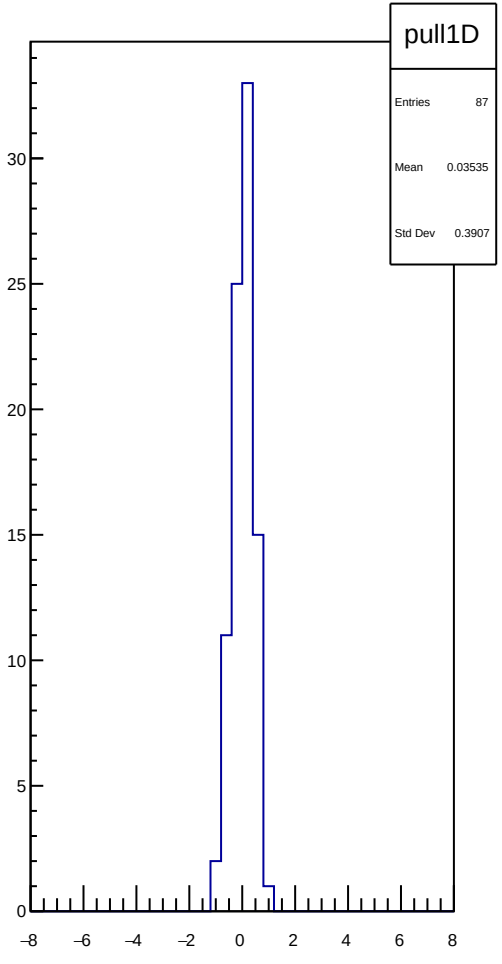

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 15.15 / 86
p0 62.3 ± 0.9158
pull
Entries 87
Mean −393.8
Std Dev 430.3

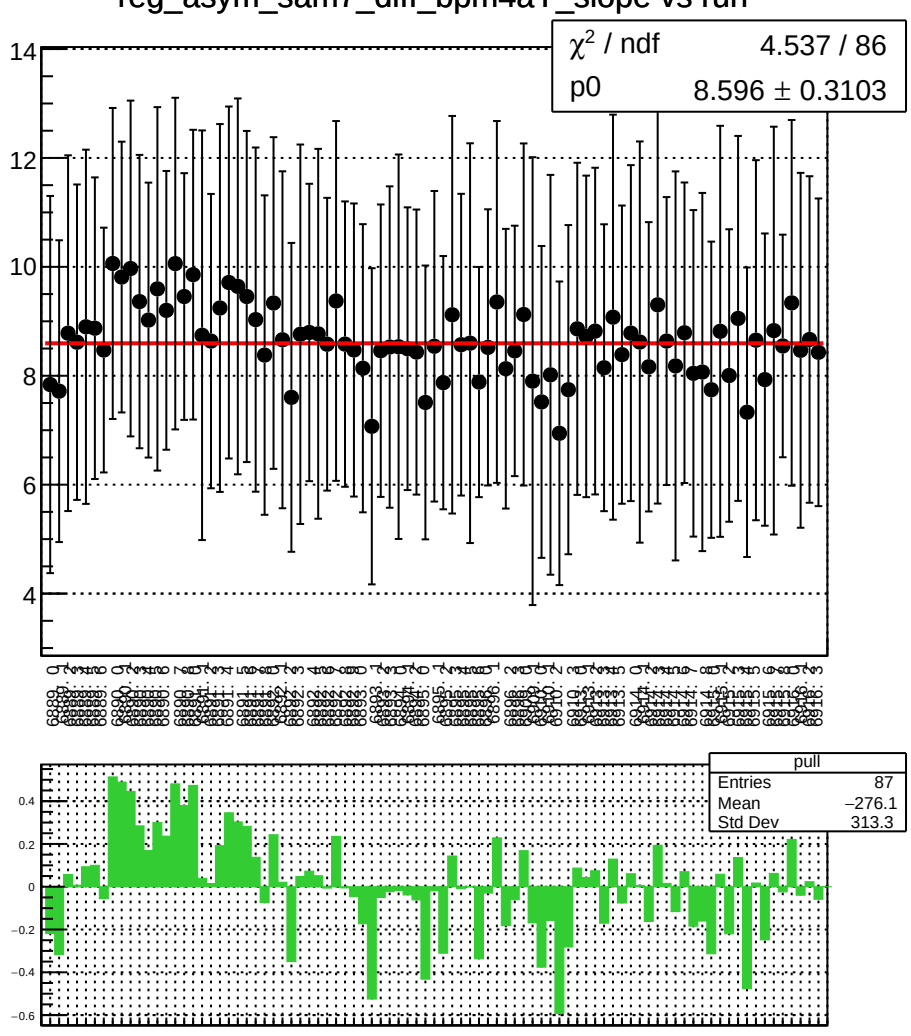

pull1D
Entries 87
Mean −0.00956
Std Dev 0.4172

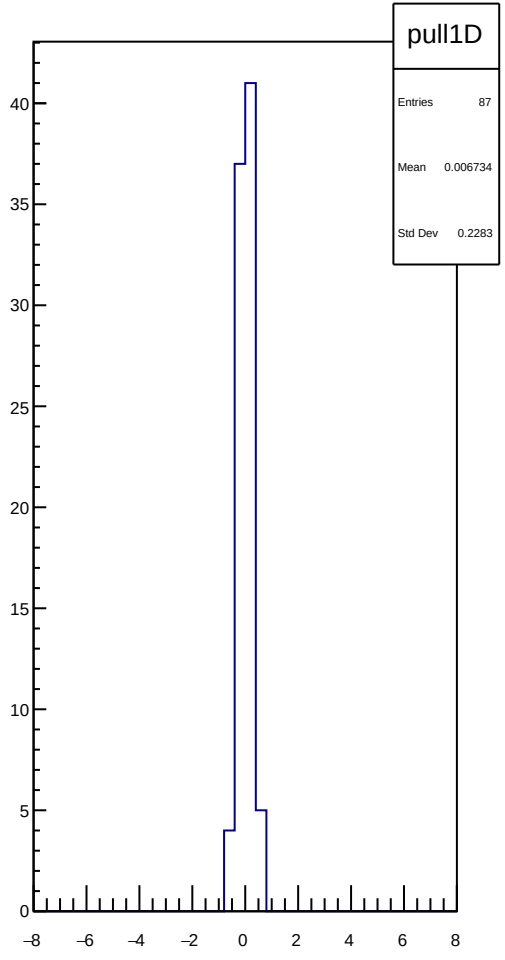

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 15.16 / 86
p0 −0.6344 ± 0.04012
pull
Entries 87
Mean −397.3
Std Dev 393.1

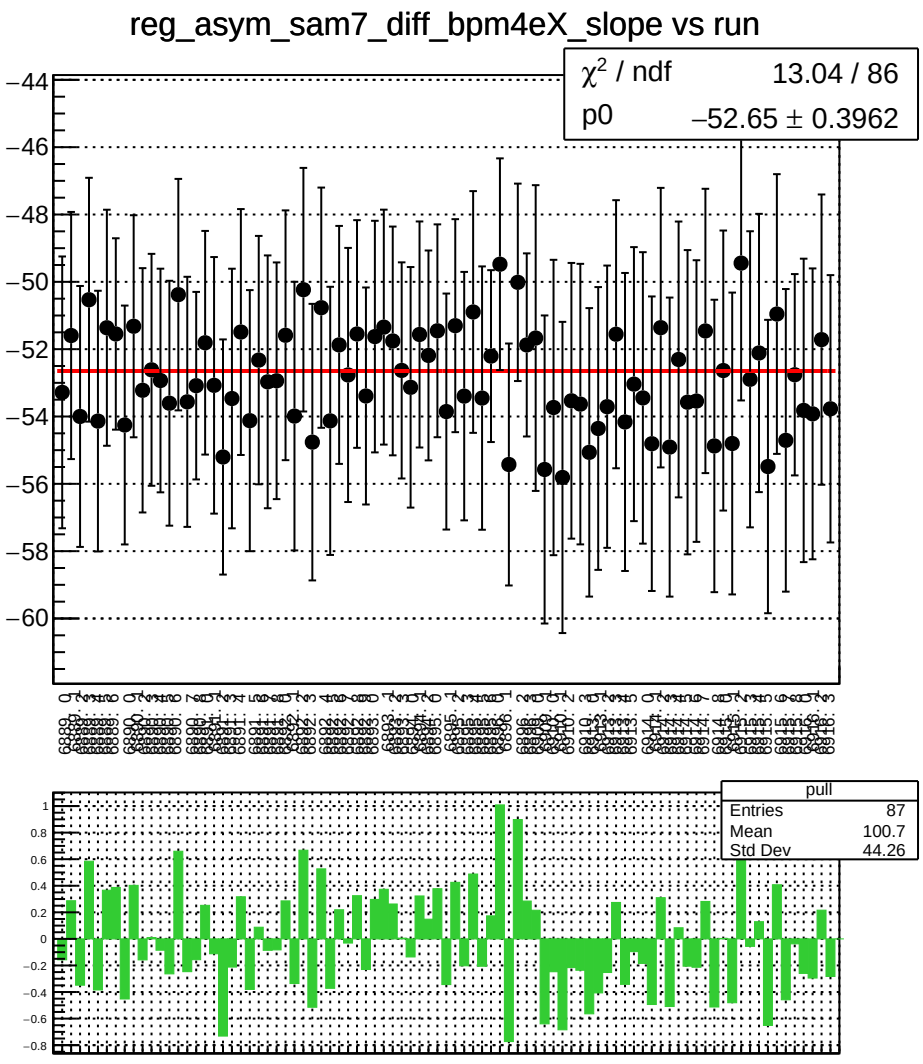

pull1D
Entries 87
Mean −0.003359
Std Dev 0.4174

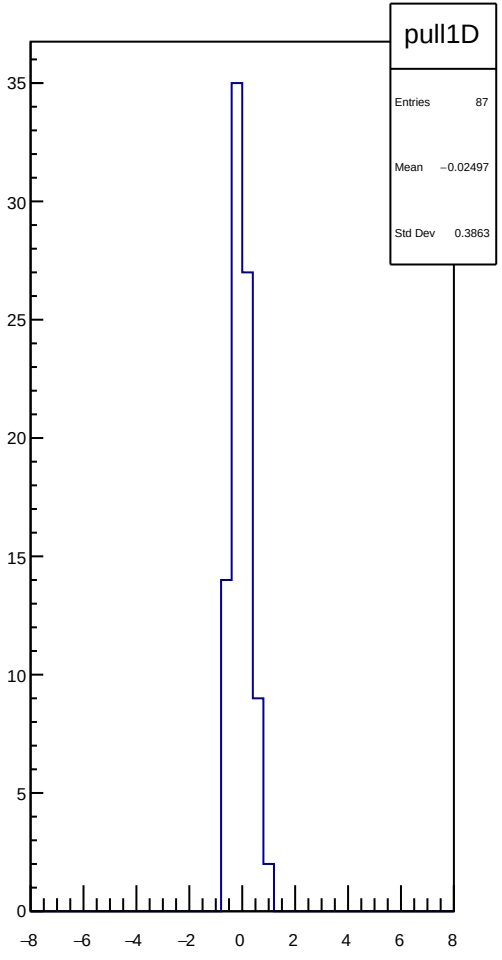

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 13.39 / 86
p0 12.99 ± 0.414
pull
Entries 87
Mean 133.3
Std Dev 79.22

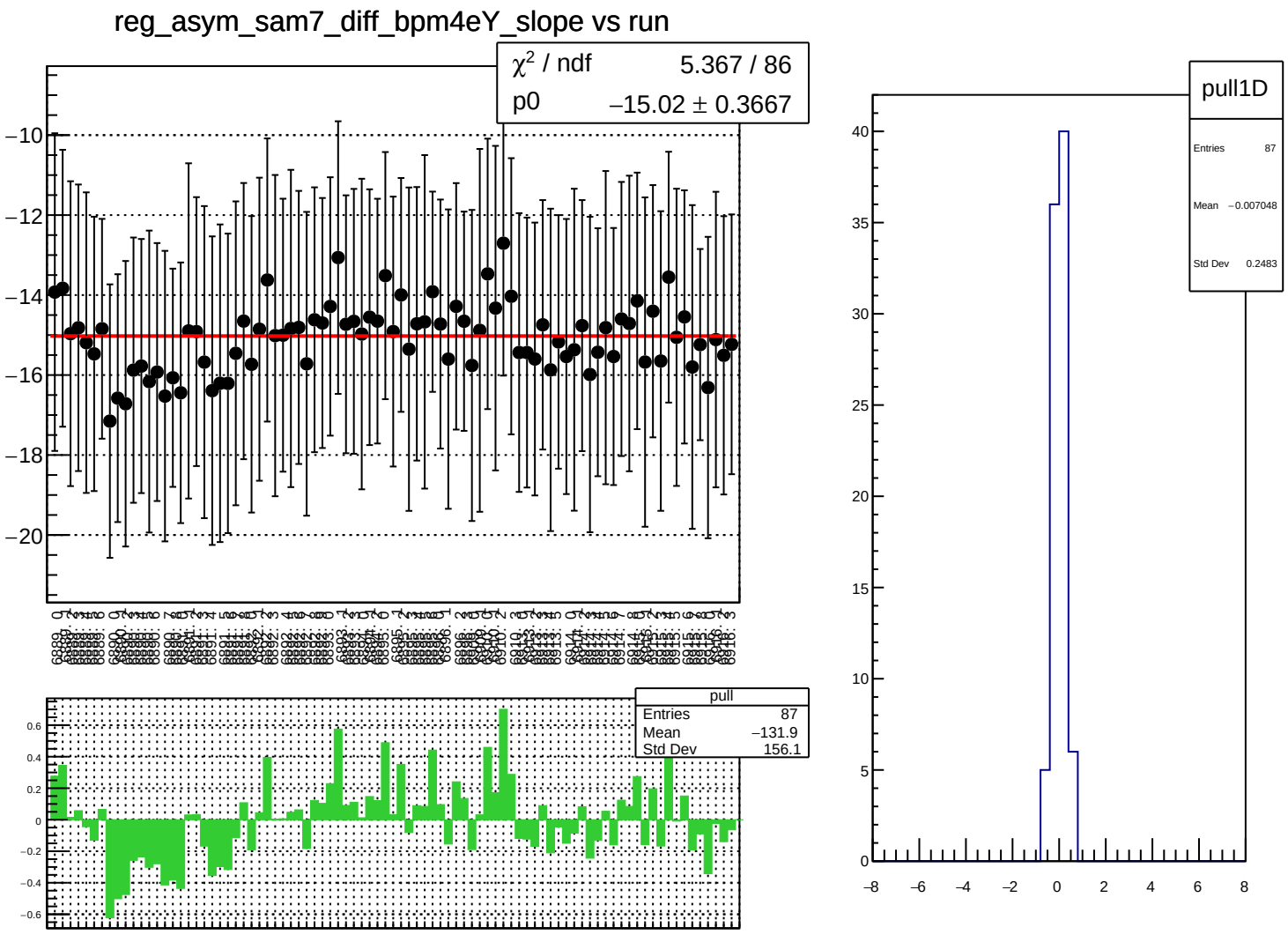

pull1D
Entries 87
Mean 0.03535
Std Dev 0.3907

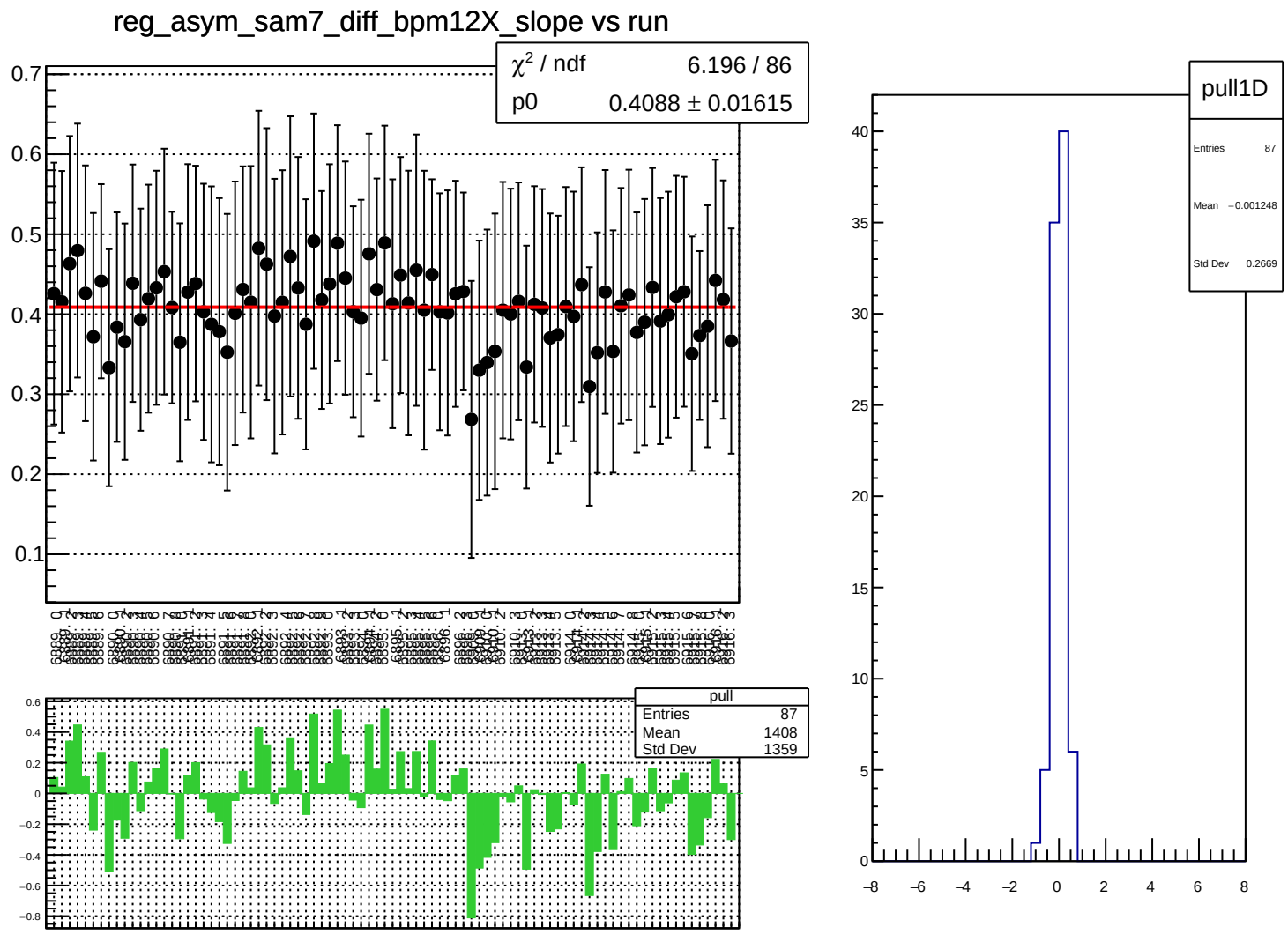

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 4.537 / 86
p0 8.596 ± 0.3103
pull
Entries 87
Mean −276.1
Std Dev 313.3

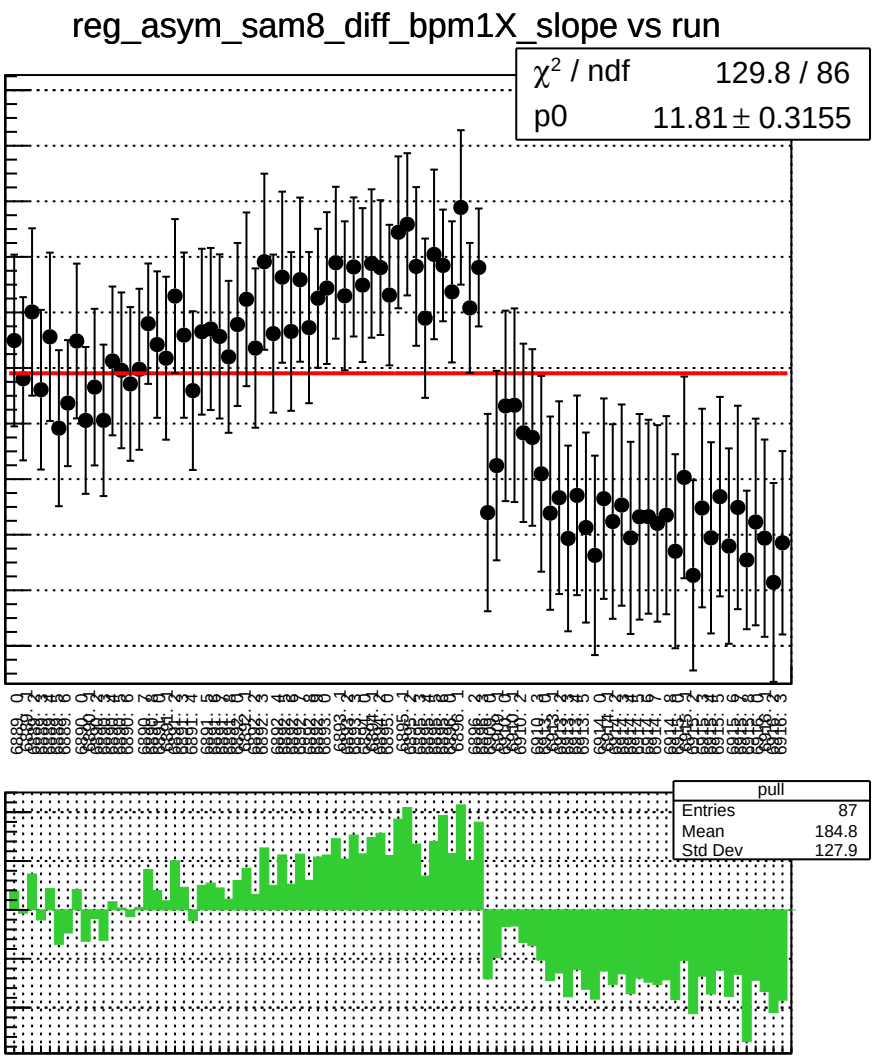

pull1D
Entries 87
Mean 0.006734
Std Dev 0.2283

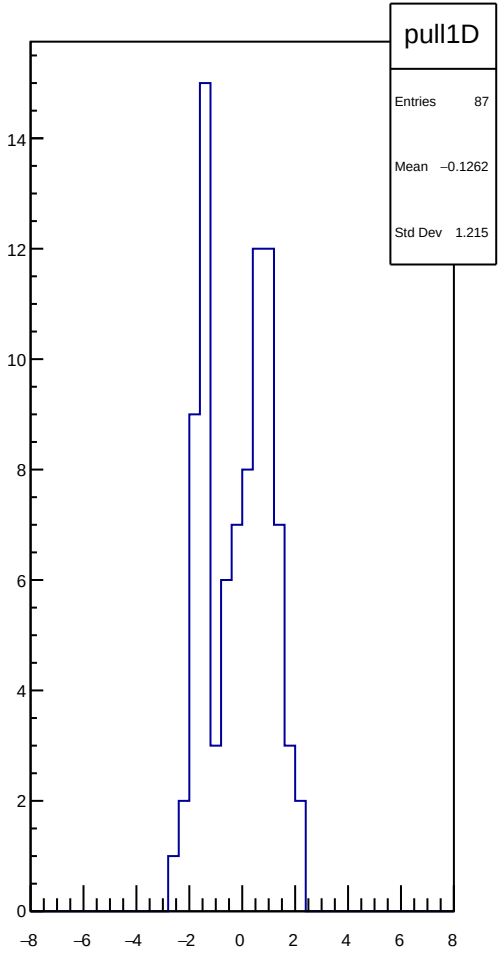

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 13.04 / 86
p0 −52.65 ± 0.3962
pull
Entries 87
Mean 100.7
Std Dev 44.26

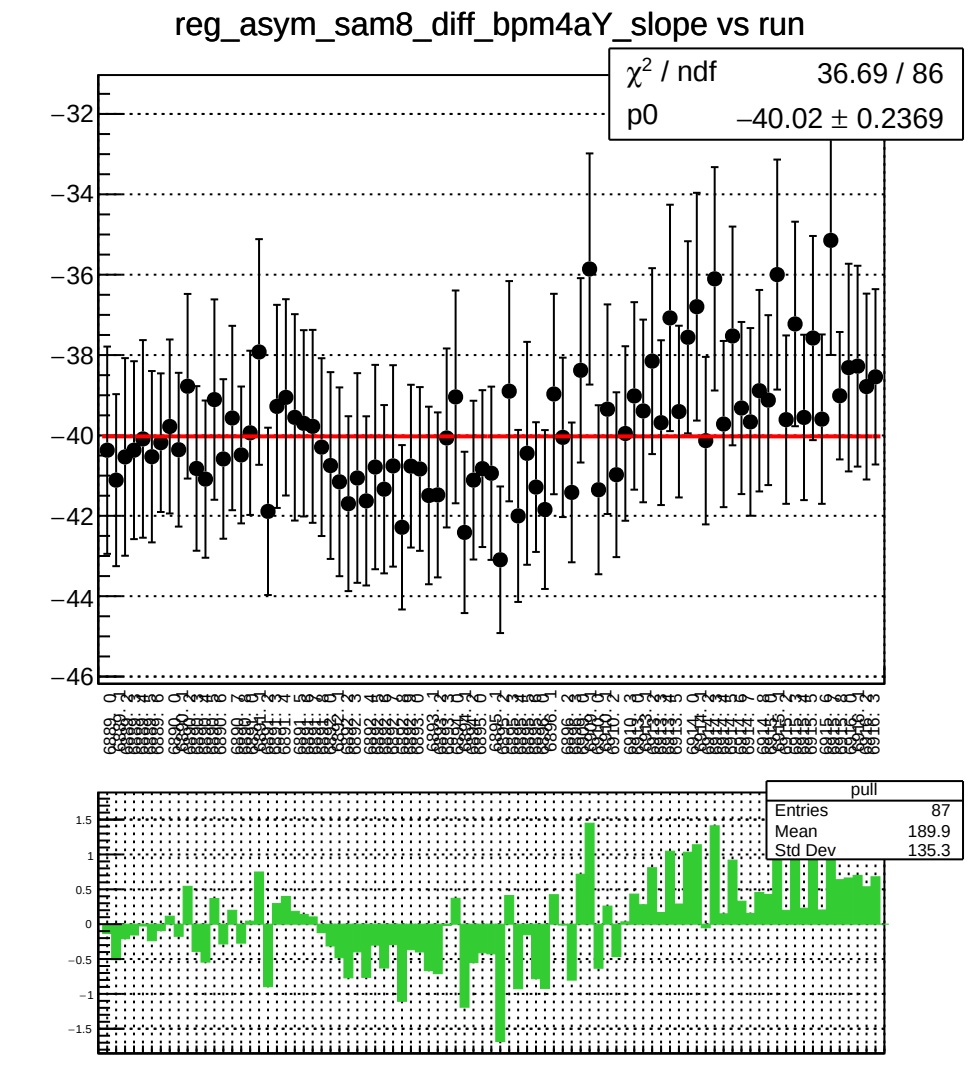

pull1D
Entries 87
Mean −0.02497
Std Dev 0.3863

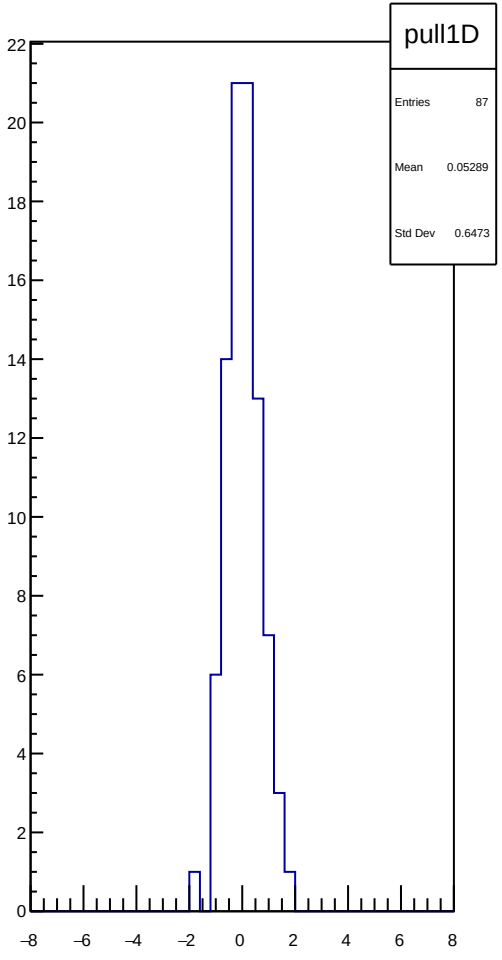

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 5.367 / 86
p0 −15.02 ± 0.3667
pull
Entries 87
Mean −131.9
Std Dev 156.1
pull1D
Entries 87
Mean −0.007048
Std Dev 0.2483

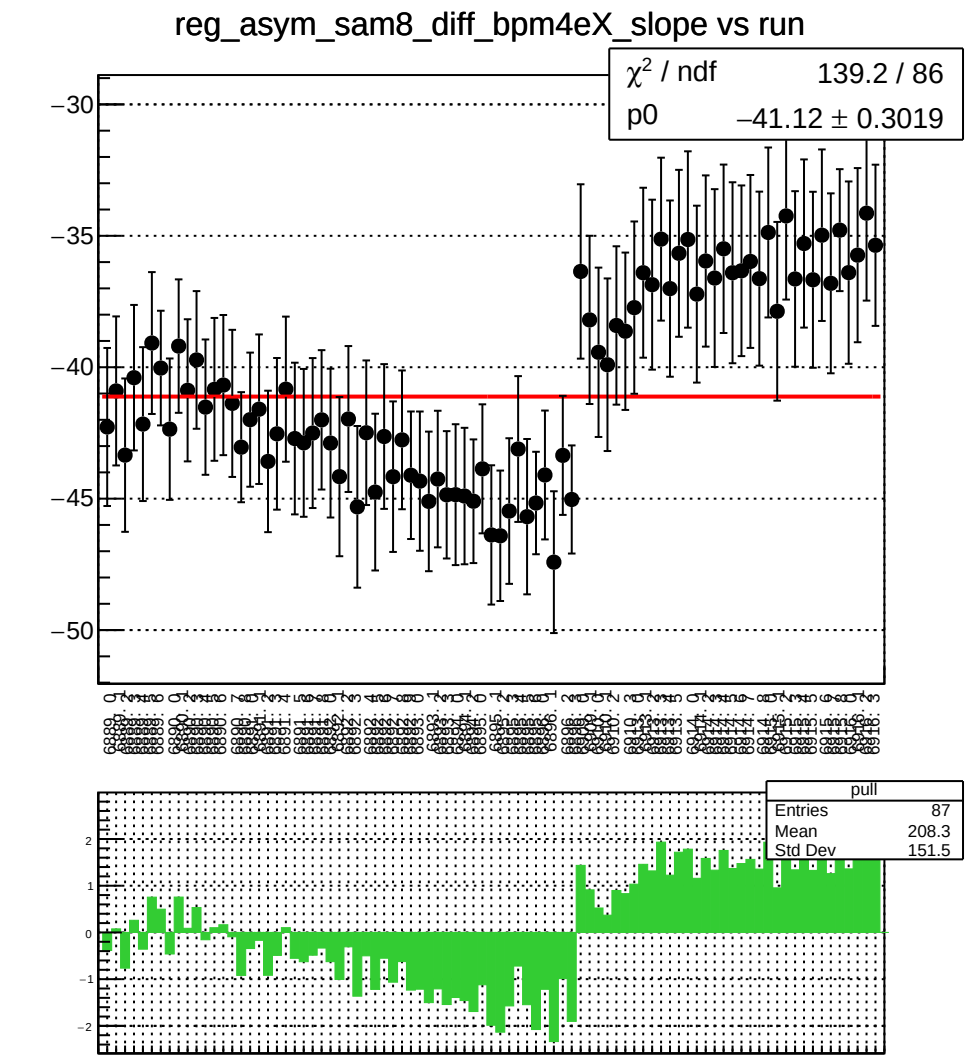

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 6.196 / 86
p0 0.4088 ± 0.01615
pull
Entries 87
Mean 1408
Std Dev 1359
pull1D
Entries 87
Mean −0.001248
Std Dev 0.2669

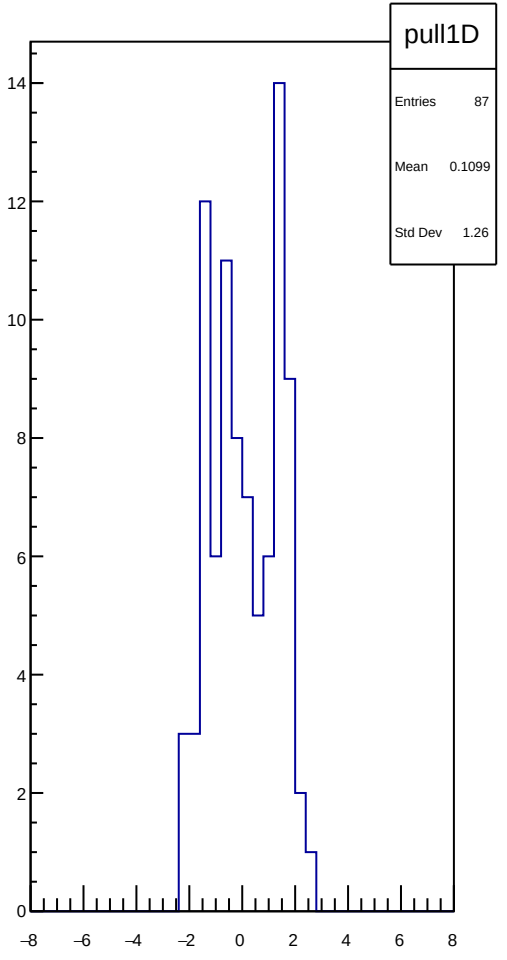

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 129.8 / 86
p0 11.81 ± 0.3155
pull
Entries 87
Mean 184.8
Std Dev 127.9

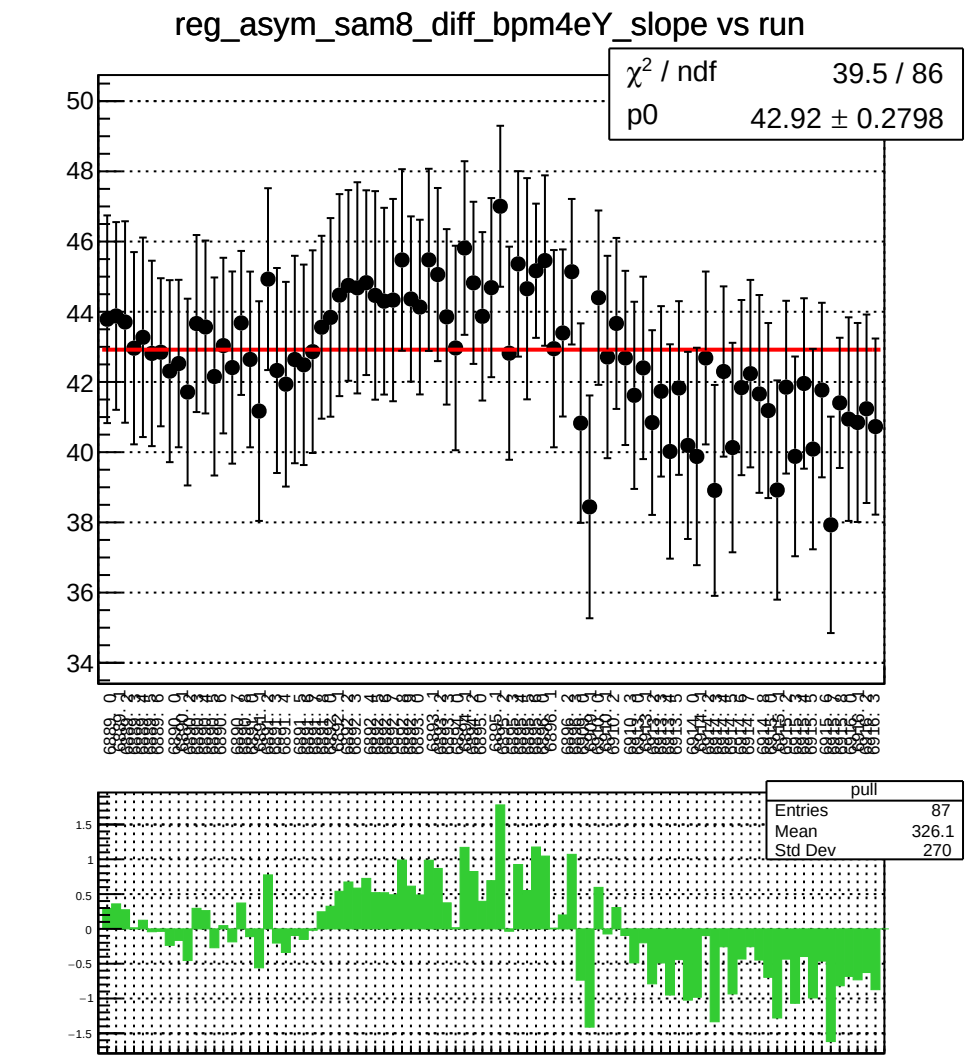

pull1D
Entries 87
Mean −0.1262
Std Dev 1.215

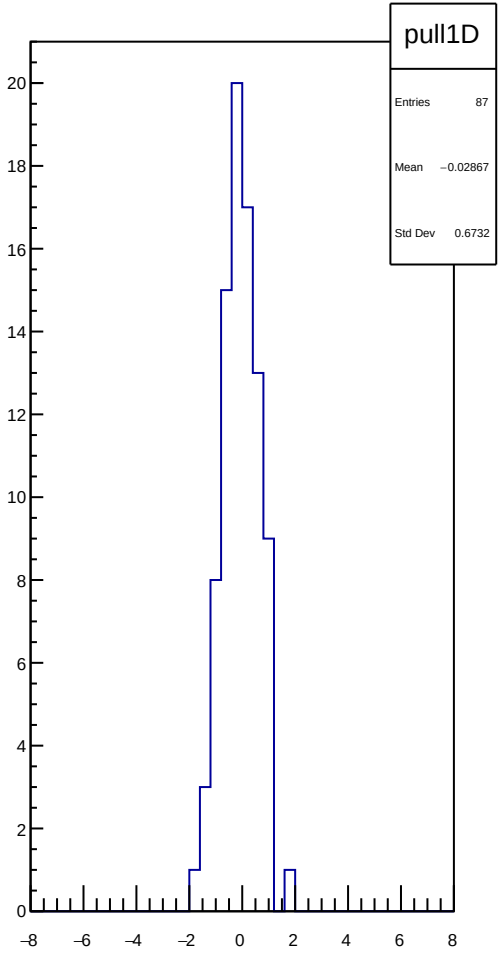

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 36.69 / 86
p0 −40.02 ± 0.2369
pull
Entries 87
Mean 189.9
Std Dev 135.3

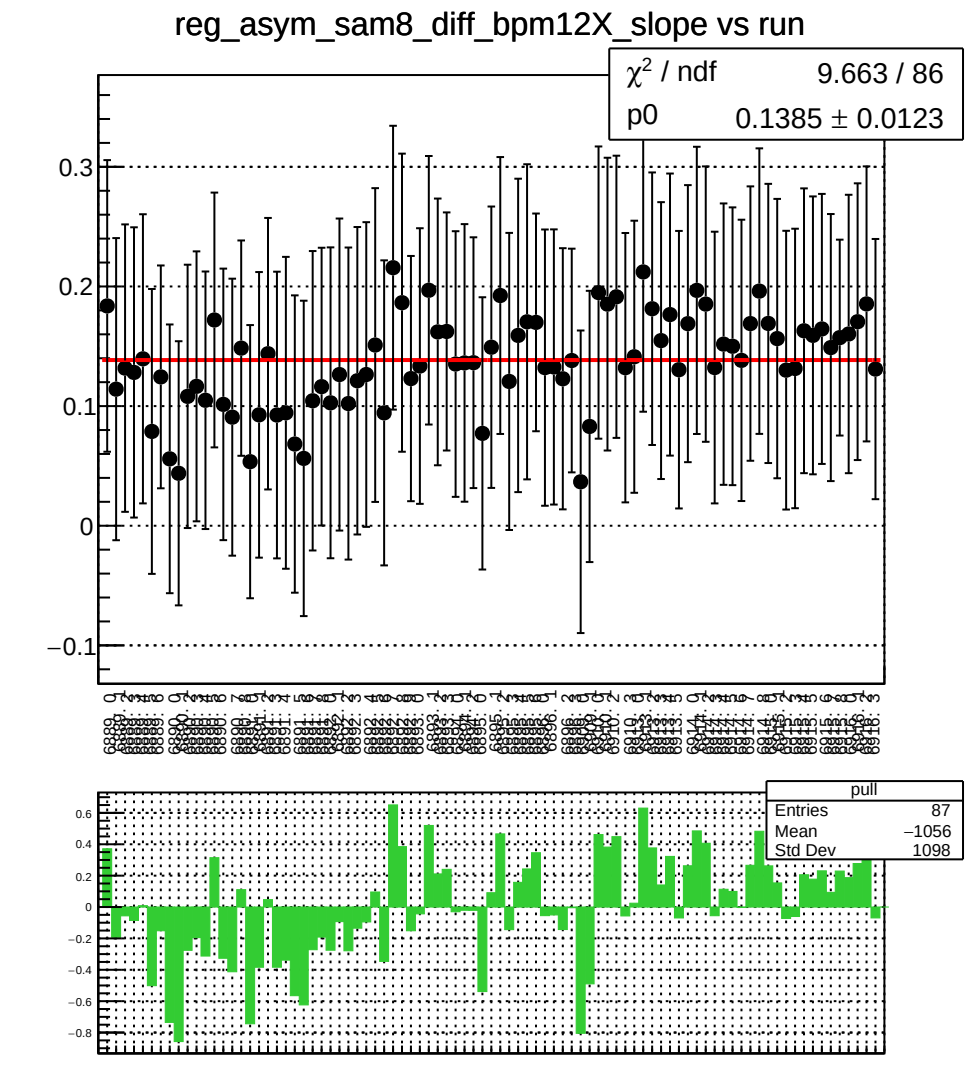

pull1D
Entries 87
Mean 0.05289
Std Dev 0.6473

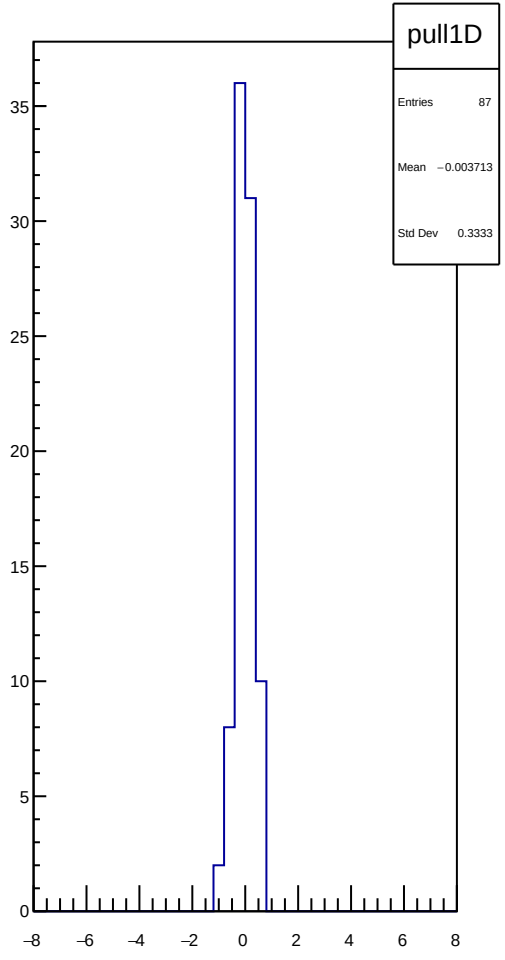

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 139.2 / 86
p0 −41.12 ± 0.3019
−30
−35
−40
−45
−50
pull
Entries 87
Mean 208.3
Std Dev 151.5
2
1
0
−1
−2

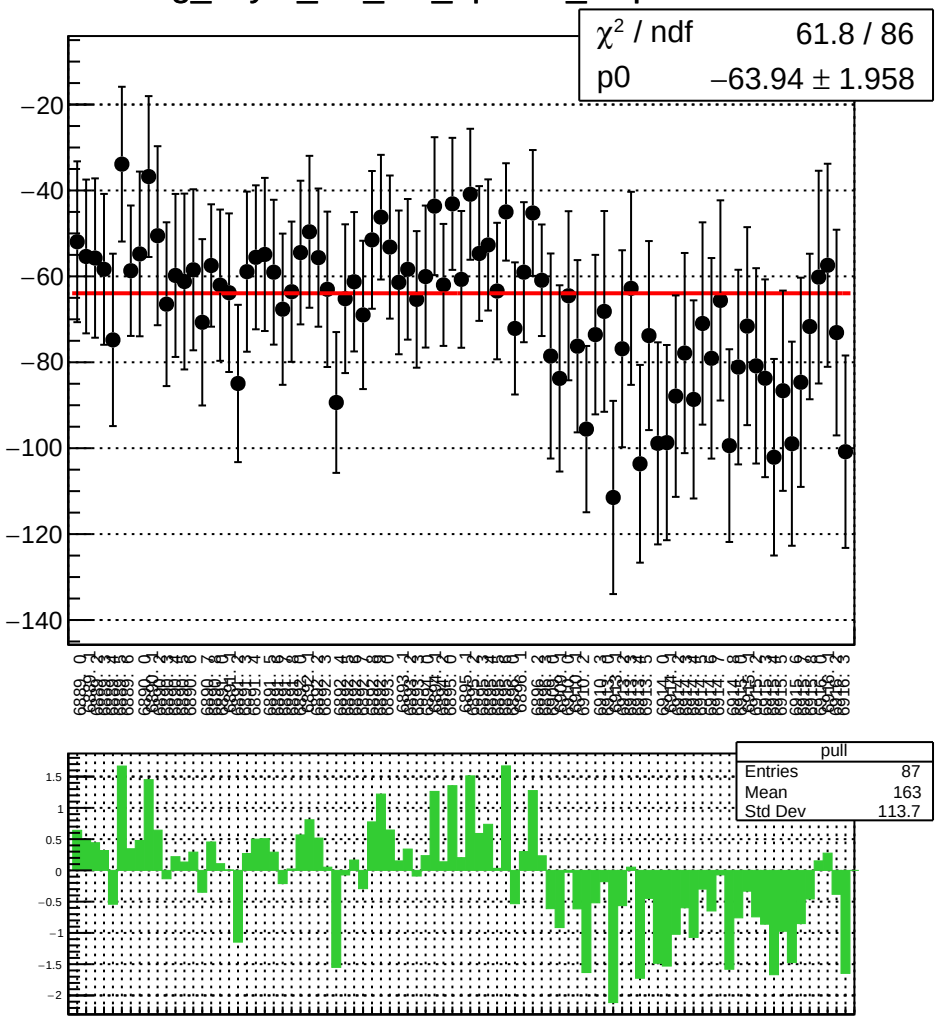

pull1D
Entries 87
Mean 0.1099
Std Dev 1.26
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

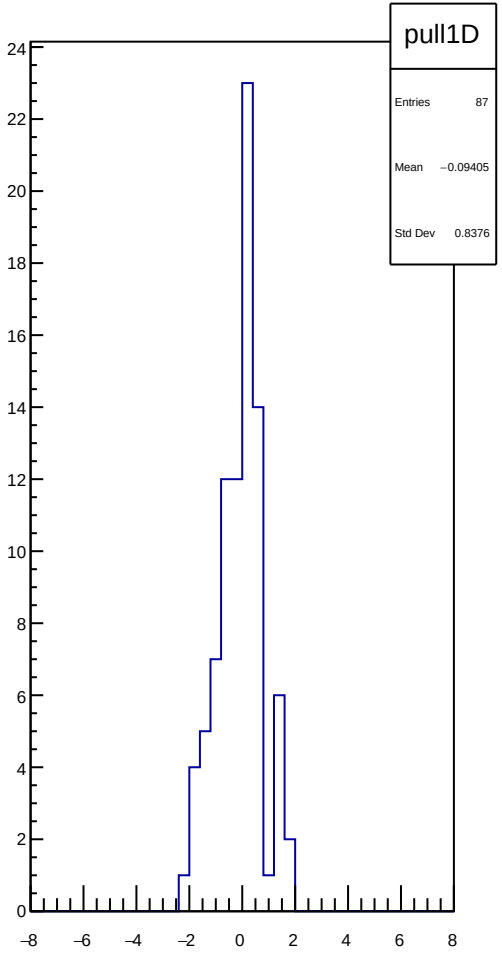

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 39.5 / 86
p0 42.92 ± 0.2798
pull
Entries 87
Mean 326.1
Std Dev 270

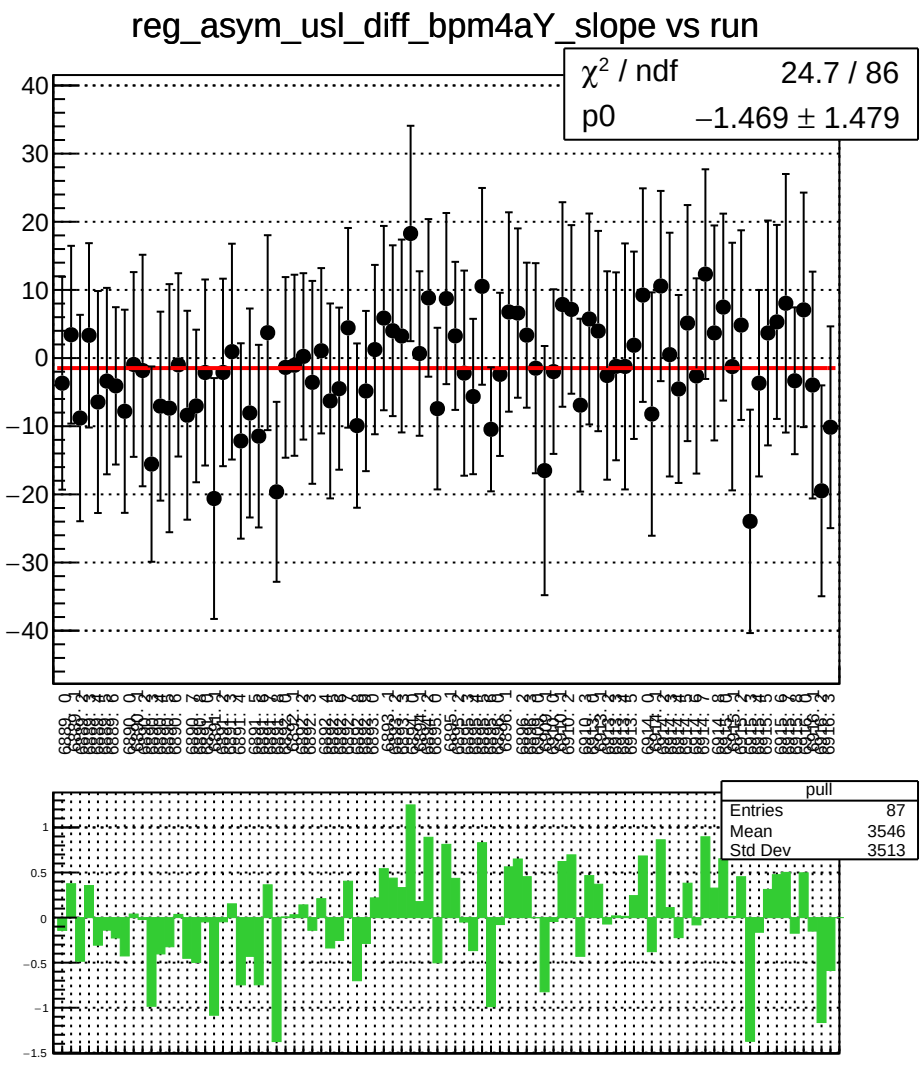

pull1D
Entries 87
Mean −0.02867
Std Dev 0.6732

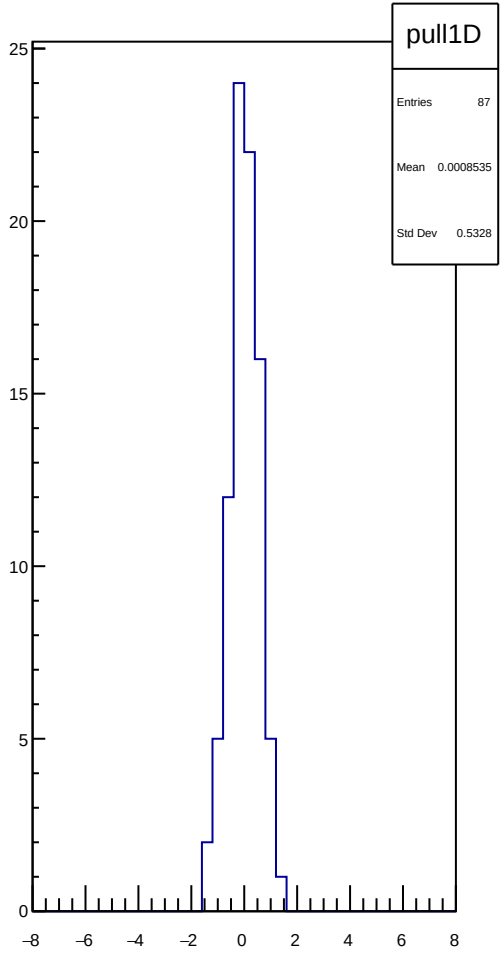

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 9.663 / 86
p0 0.1385 ± 0.0123
pull
Entries 87
Mean −1056
Std Dev 1098

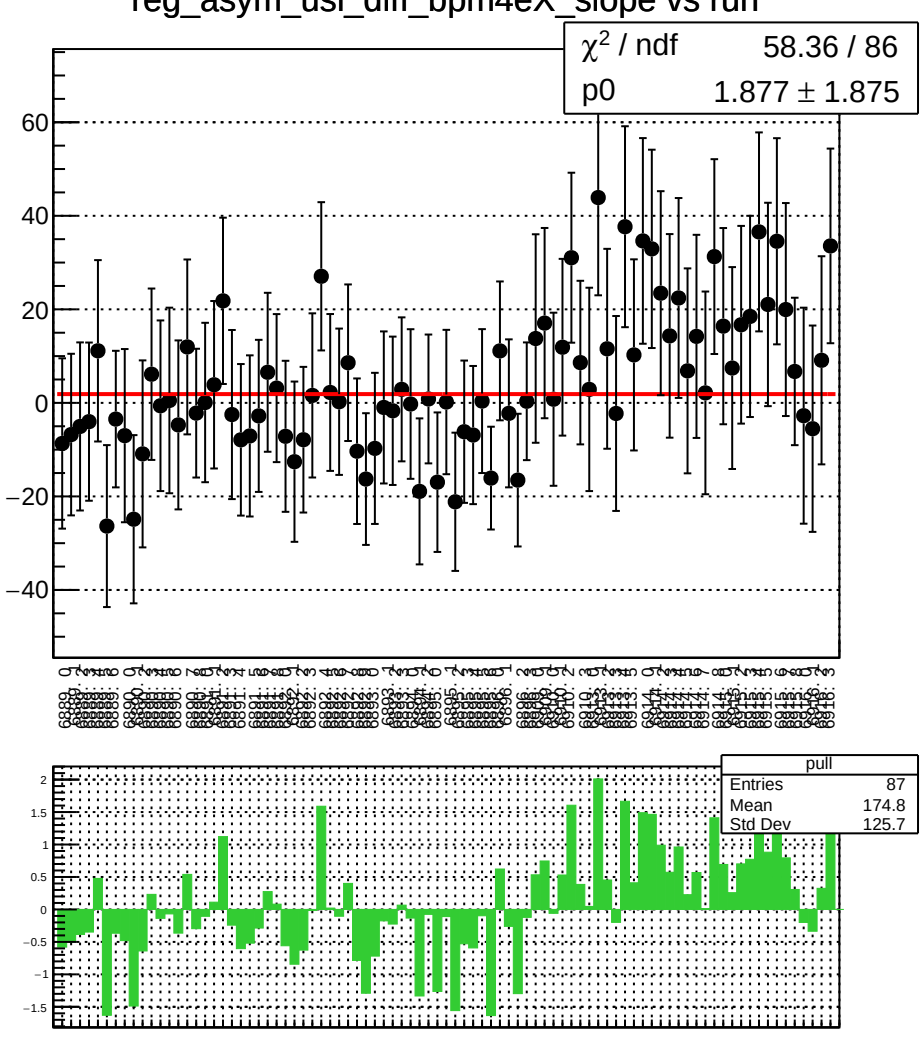

pull1D
Entries 87
Mean −0.003713
Std Dev 0.3333

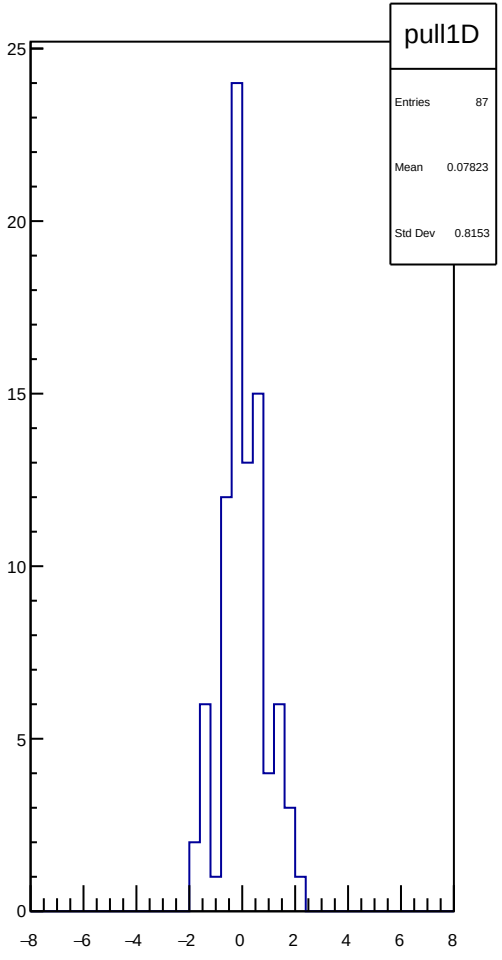

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 61.8 / 86
p0 −63.94 ± 1.958
pull
Entries 87
Mean 163
Std Dev 113.7

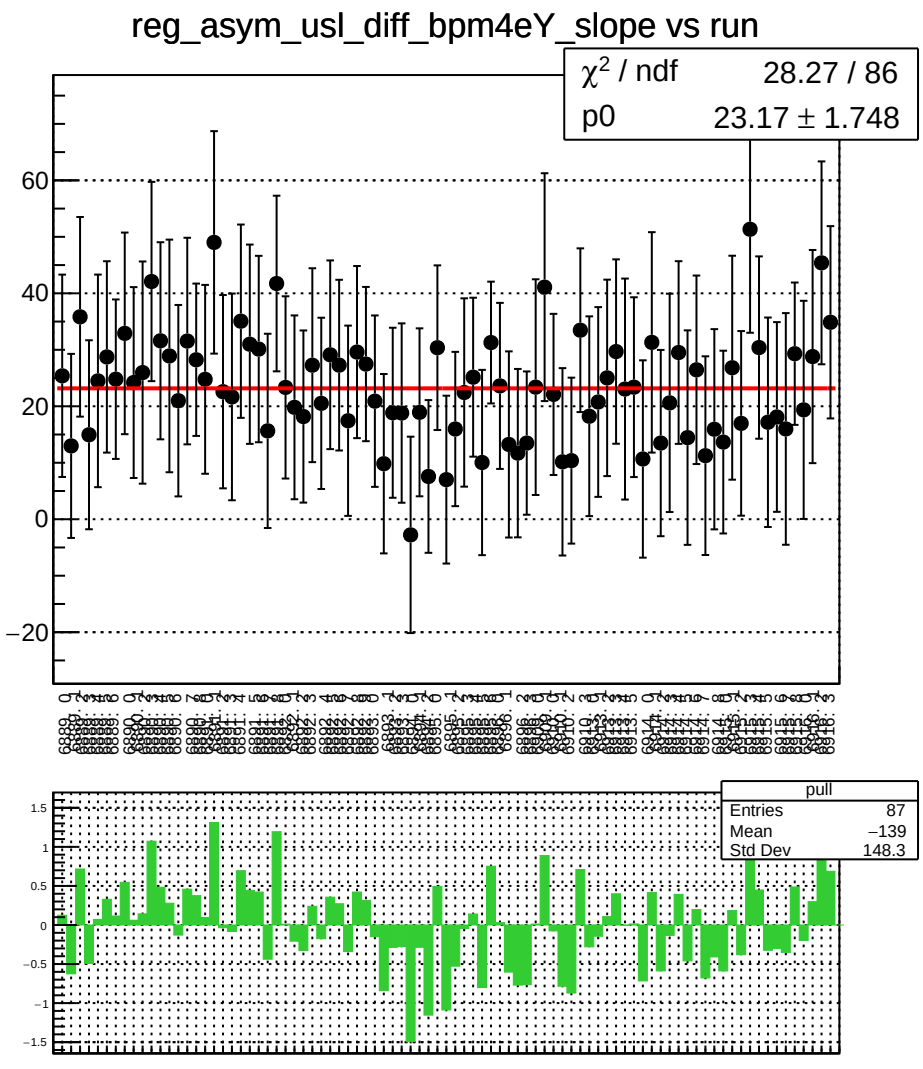

pull1D
Entries 87
Mean −0.09405
Std Dev 0.8376

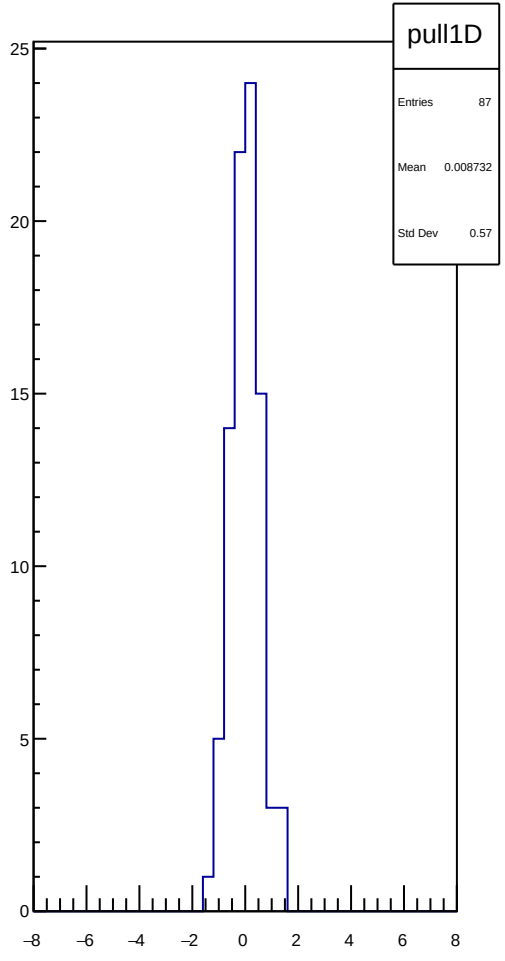

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 24.7 / 86
p0 −1.469 ± 1.479
pull
Entries 87
Mean 3546
Std Dev 3513

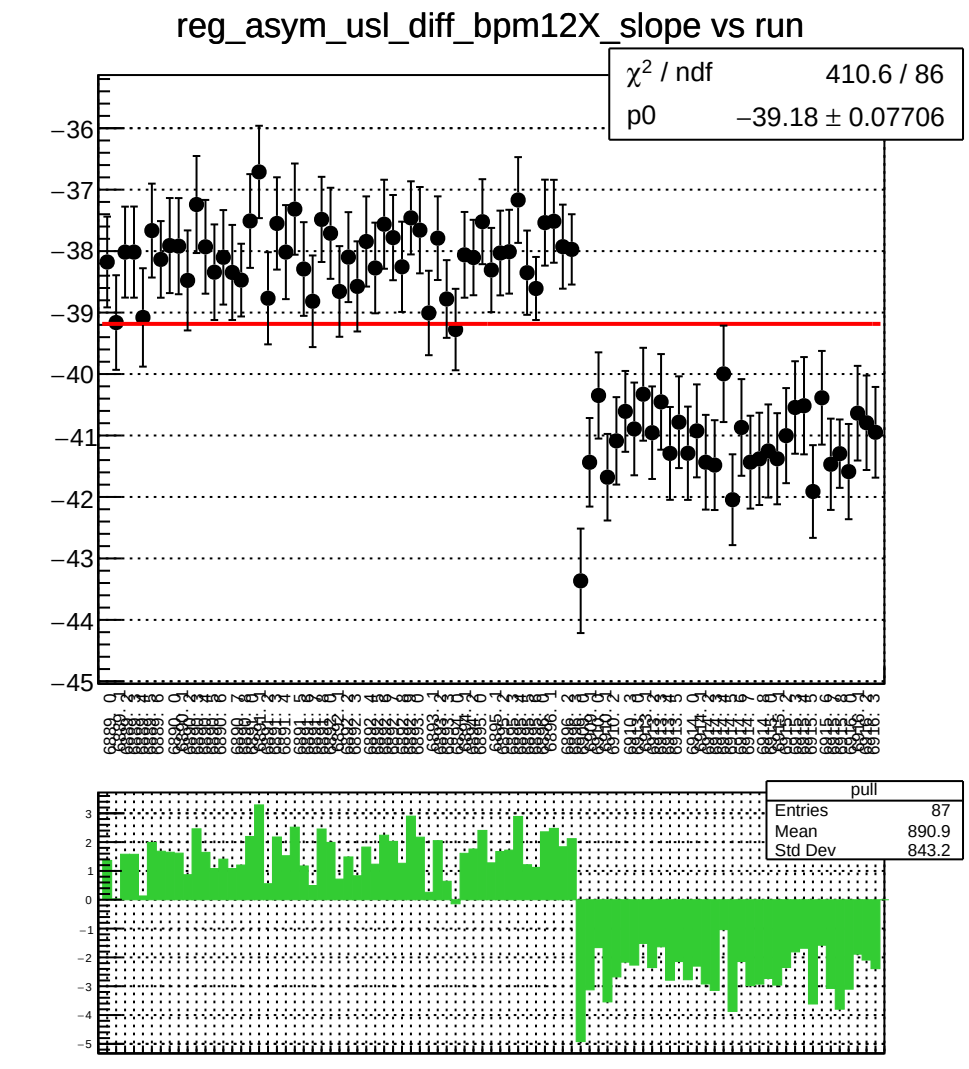

pull1D
Entries 87
Mean 0.0008535
Std Dev 0.5328

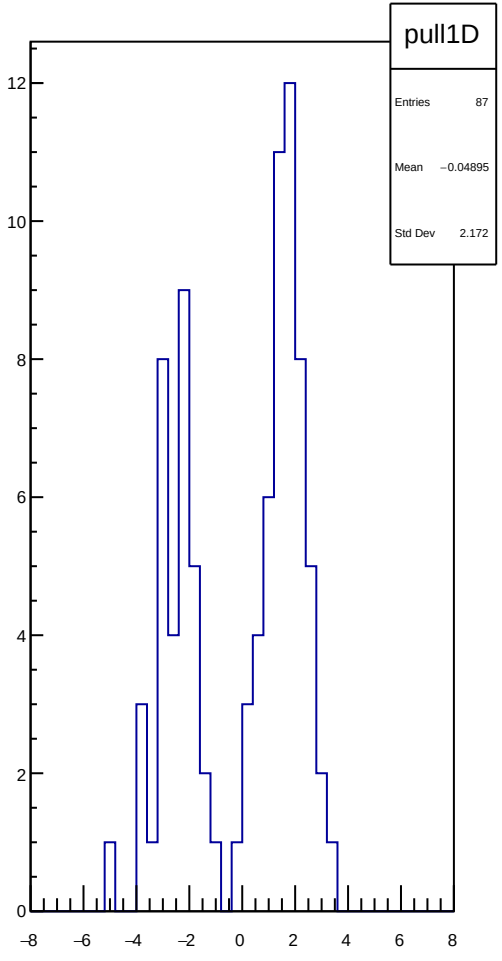

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 58.36 / 86
p0 1.877 ± 1.875
pull
Entries 87
Mean 174.8
Std Dev 125.7

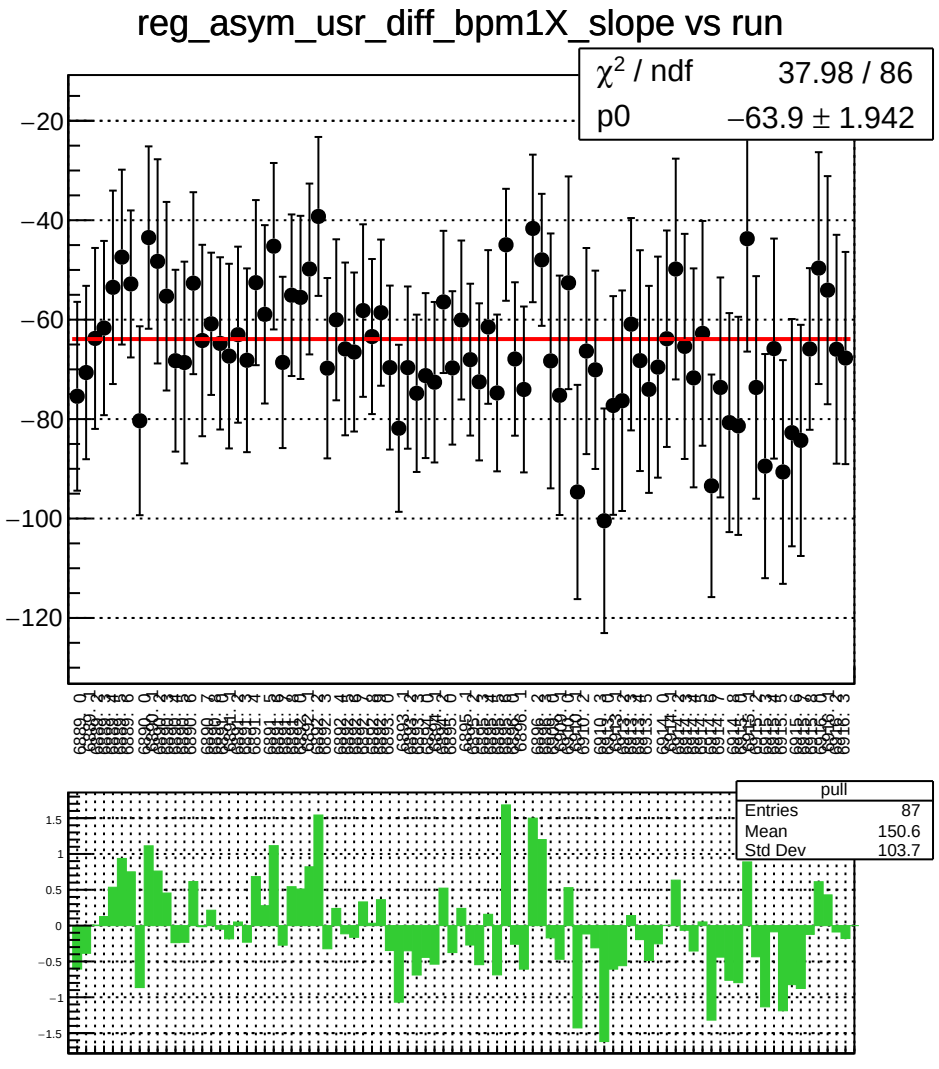

pull1D
Entries 87
Mean 0.07823
Std Dev 0.8153

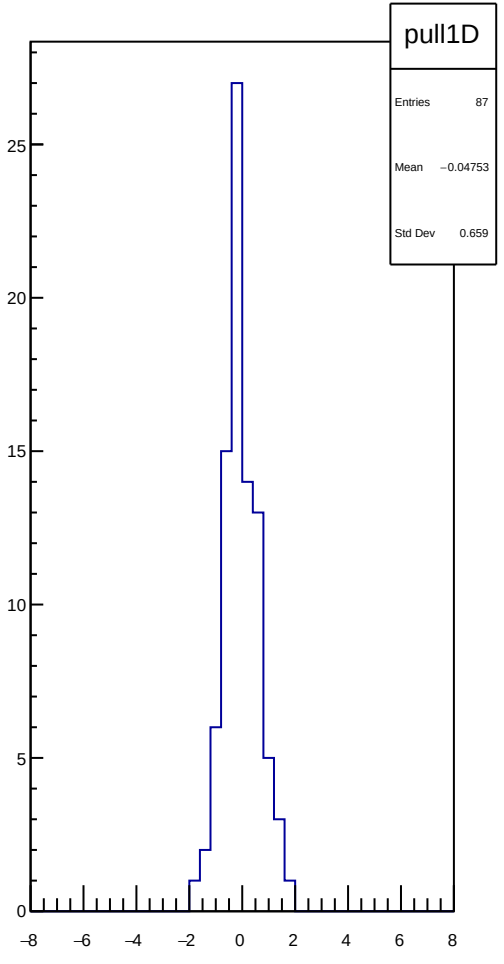

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 28.27 / 86
p0 23.17 ± 1.748
60
40
20
0
−20
pull
Entries 87
Mean −139
Std Dev 148.3
1.5
1
0.5
0
−0.5
−1
−1.5

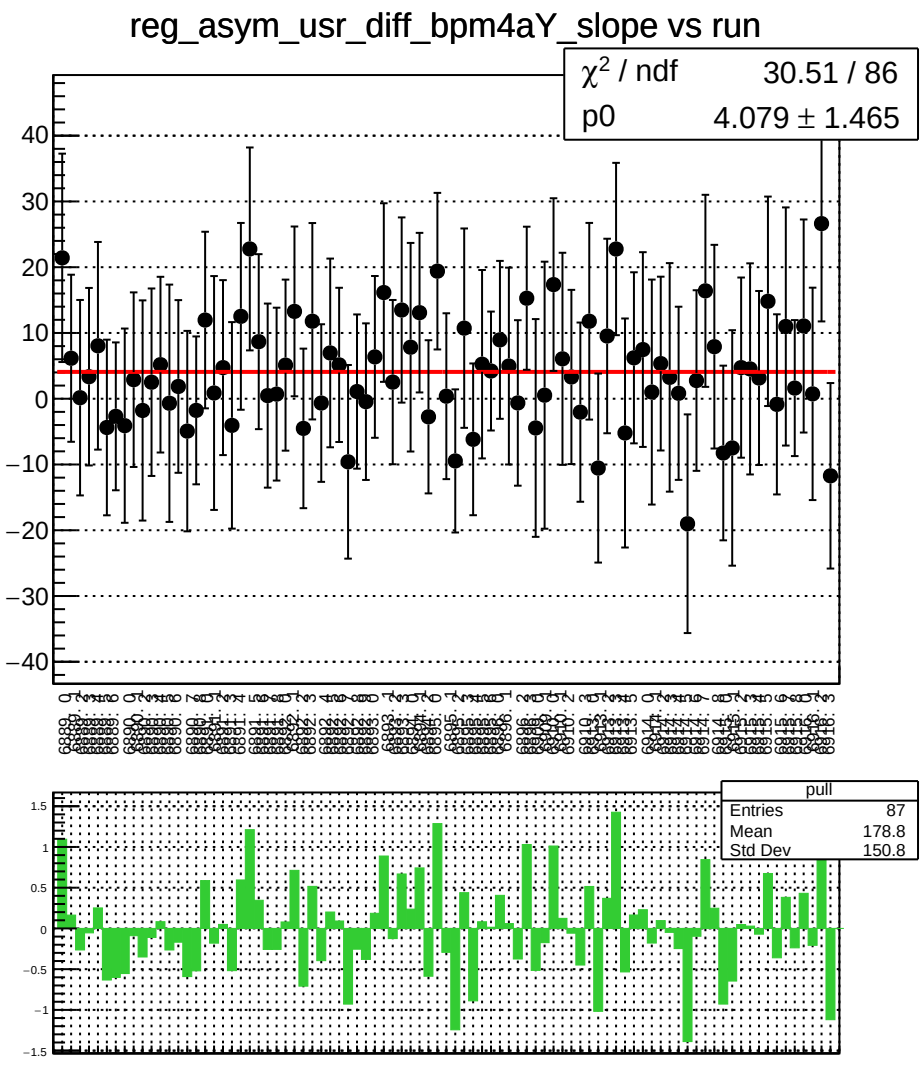

pull1D
Entries 87
Mean 0.008732
Std Dev 0.57
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

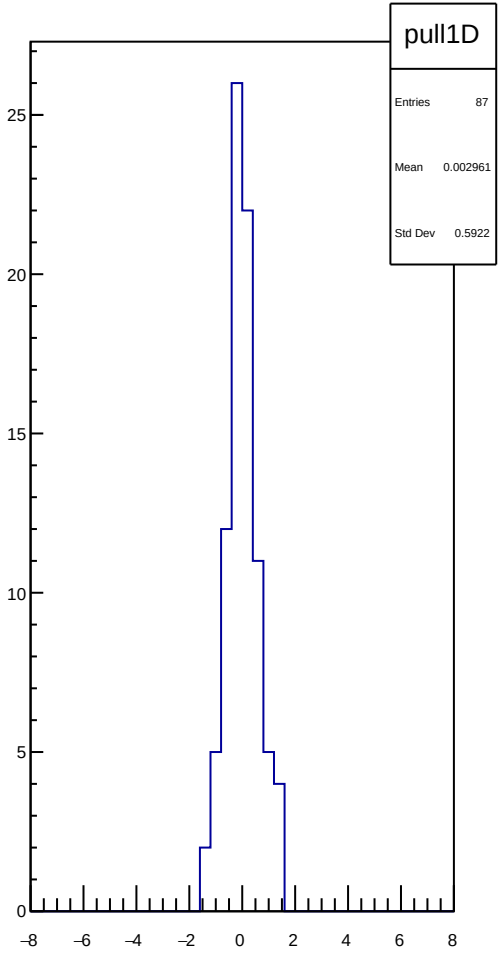

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 410.6 / 86
p0 −39.18 ± 0.07706
pull
Entries 87
Mean 890.9
Std Dev 843.2

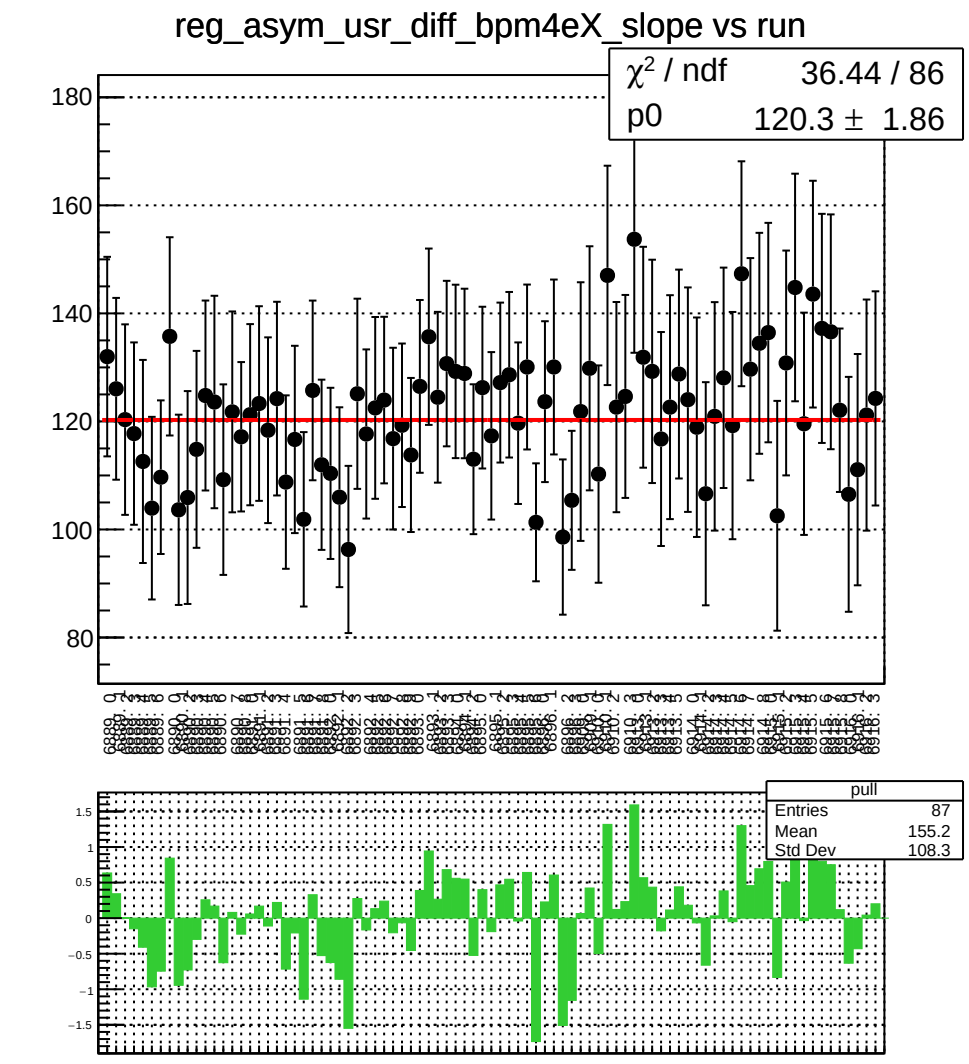

pull1D
Entries 87
Mean −0.04895
Std Dev 2.172

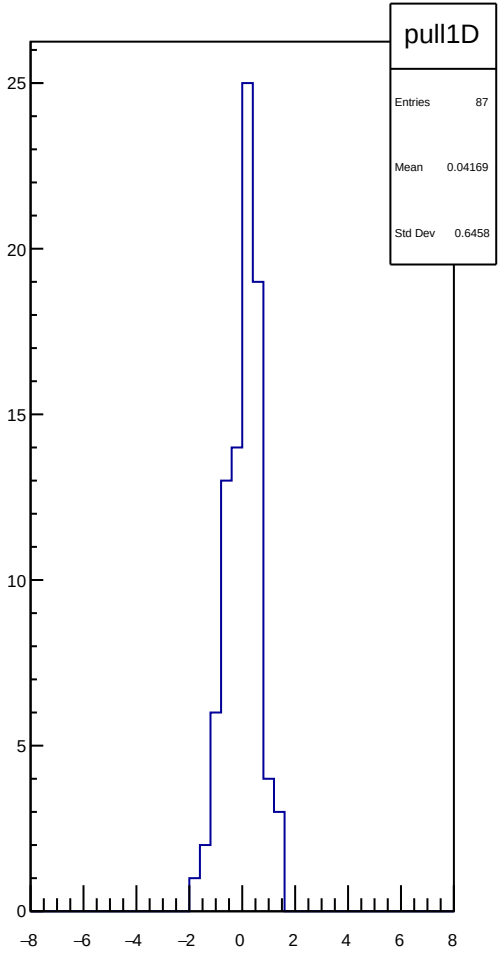

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 37.98 / 86
p0 −63.9 ± 1.942
−20
−40
−60
−80
−100
−120
pull
Entries 87
Mean 150.6
Std Dev 103.7
1.5
1
0.5
0
−0.5
−1
−1.5

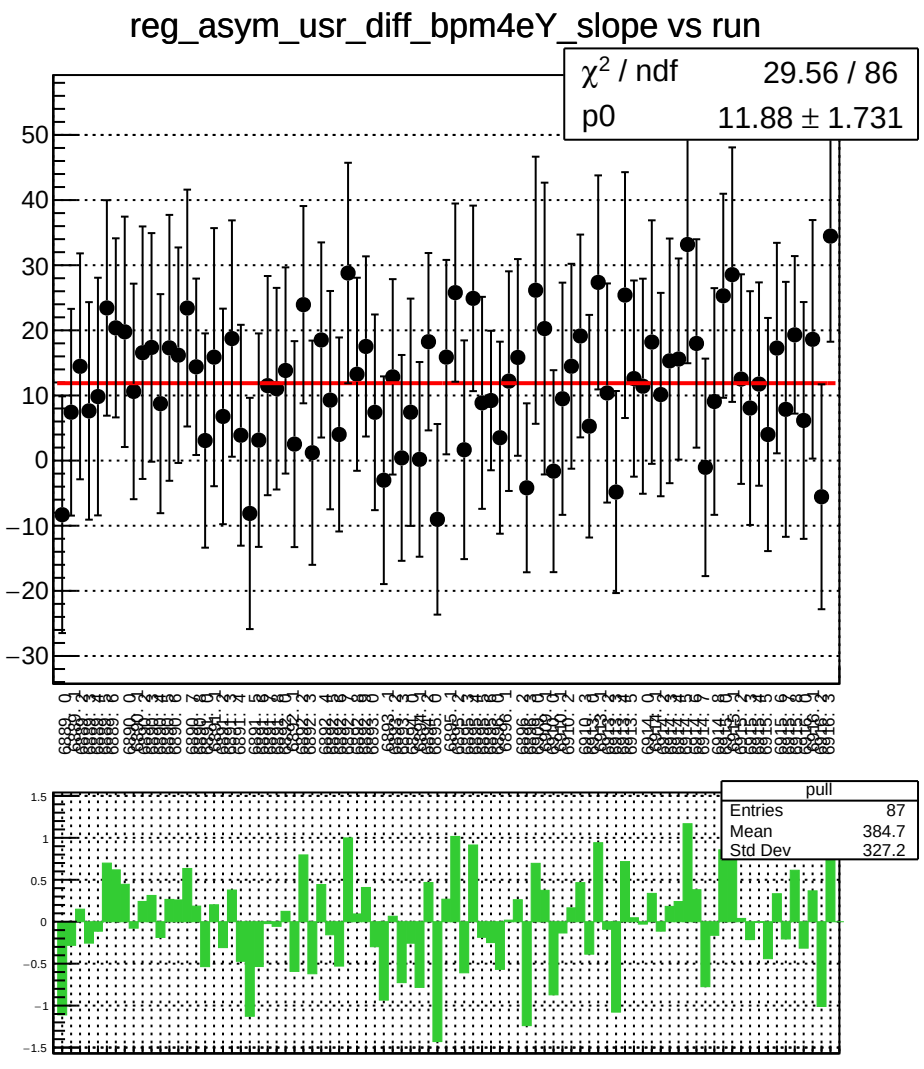

pull1D
Entries 87
Mean −0.04753
Std Dev 0.659
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

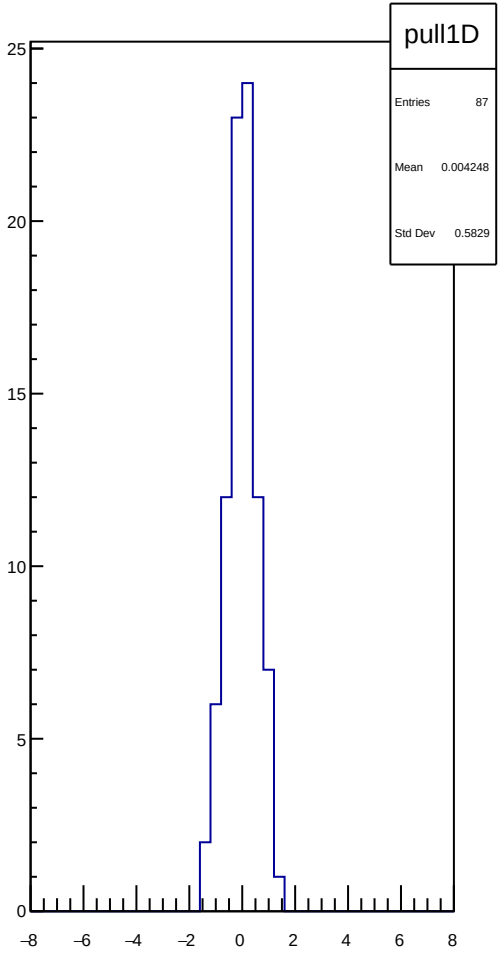

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 30.51 / 86
p0 4.079 ± 1.465
pull
Entries 87
Mean 178.8
Std Dev 150.8

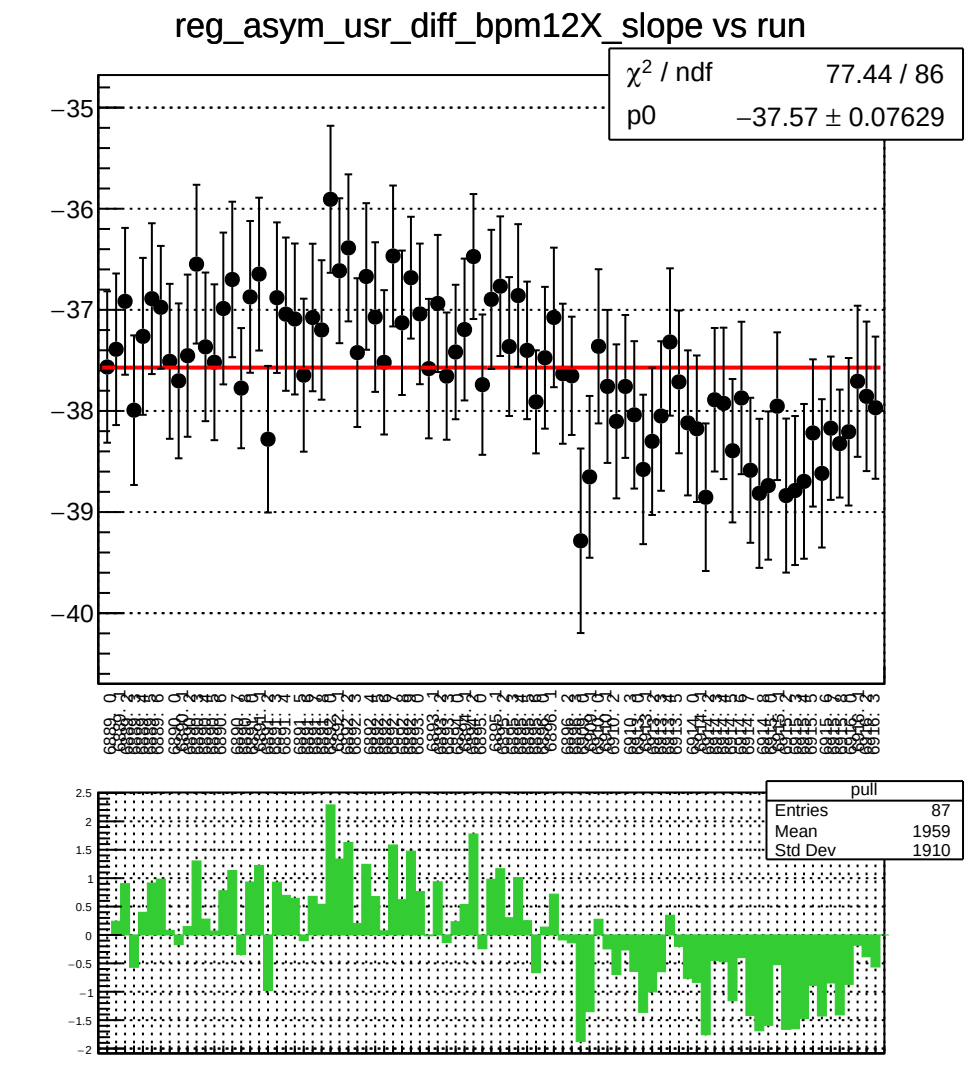

pull1D
Entries 87
Mean 0.002961
Std Dev 0.5922

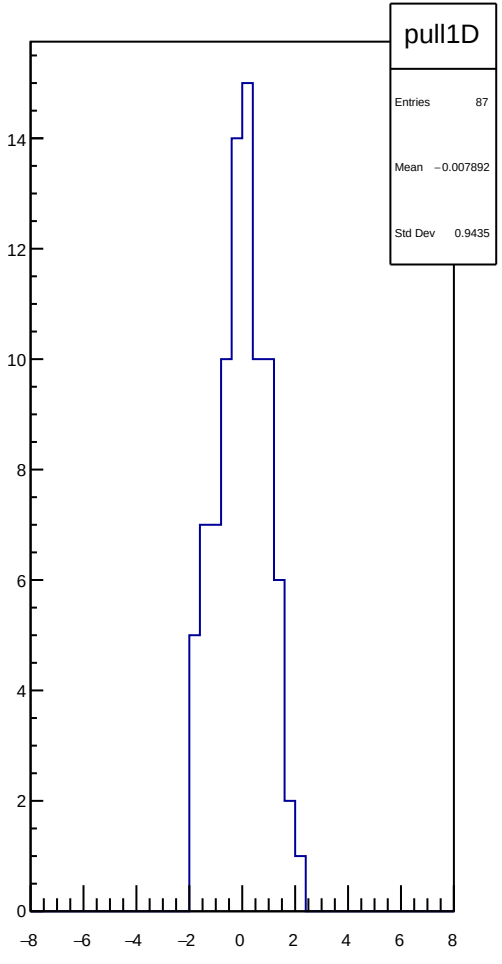

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 36.44 / 86
p0 120.3 ± 1.86
pull
Entries 87
Mean 155.2
Std Dev 108.3

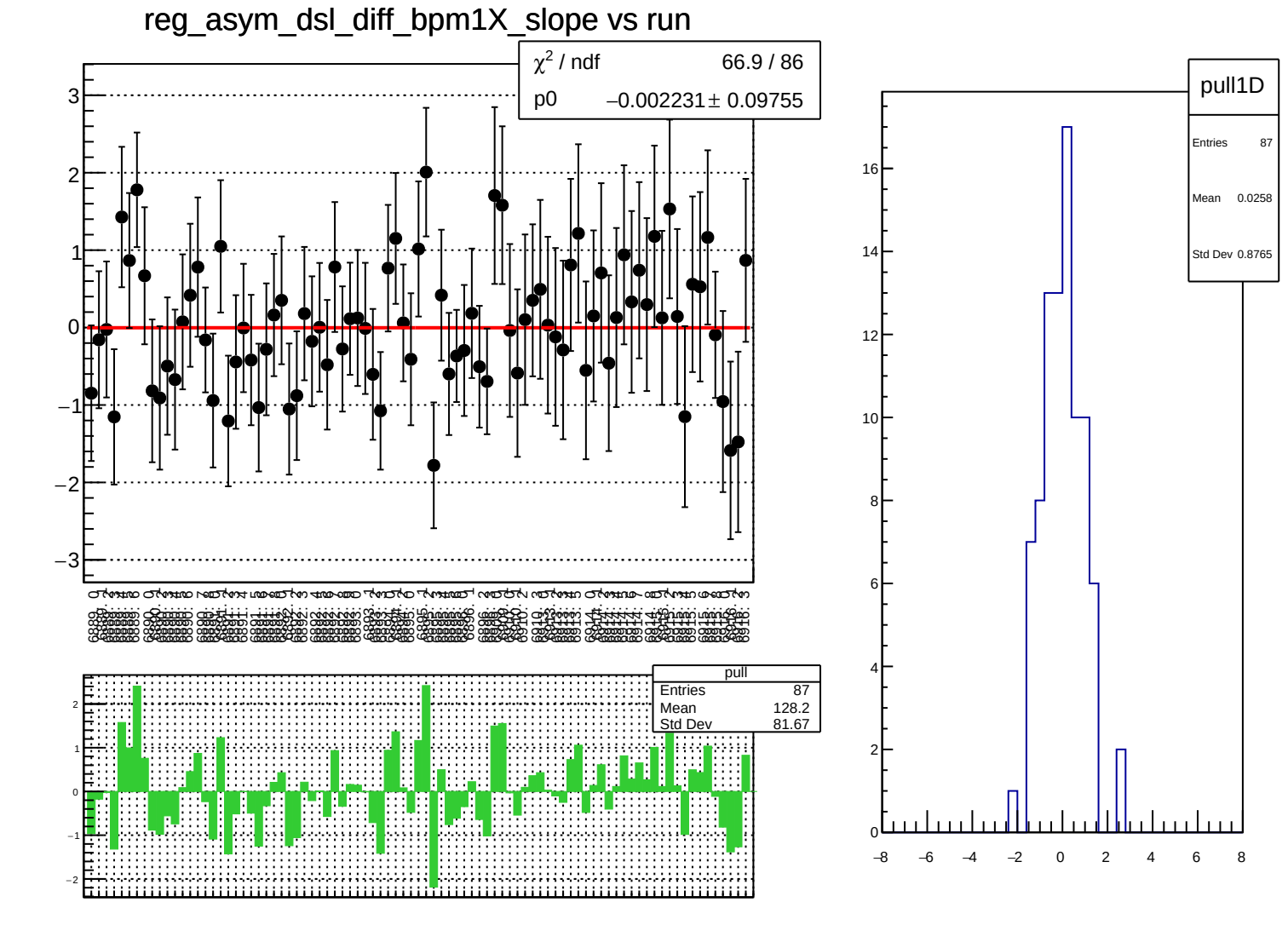

pull1D
Entries 87
Mean 0.04169
Std Dev 0.6458

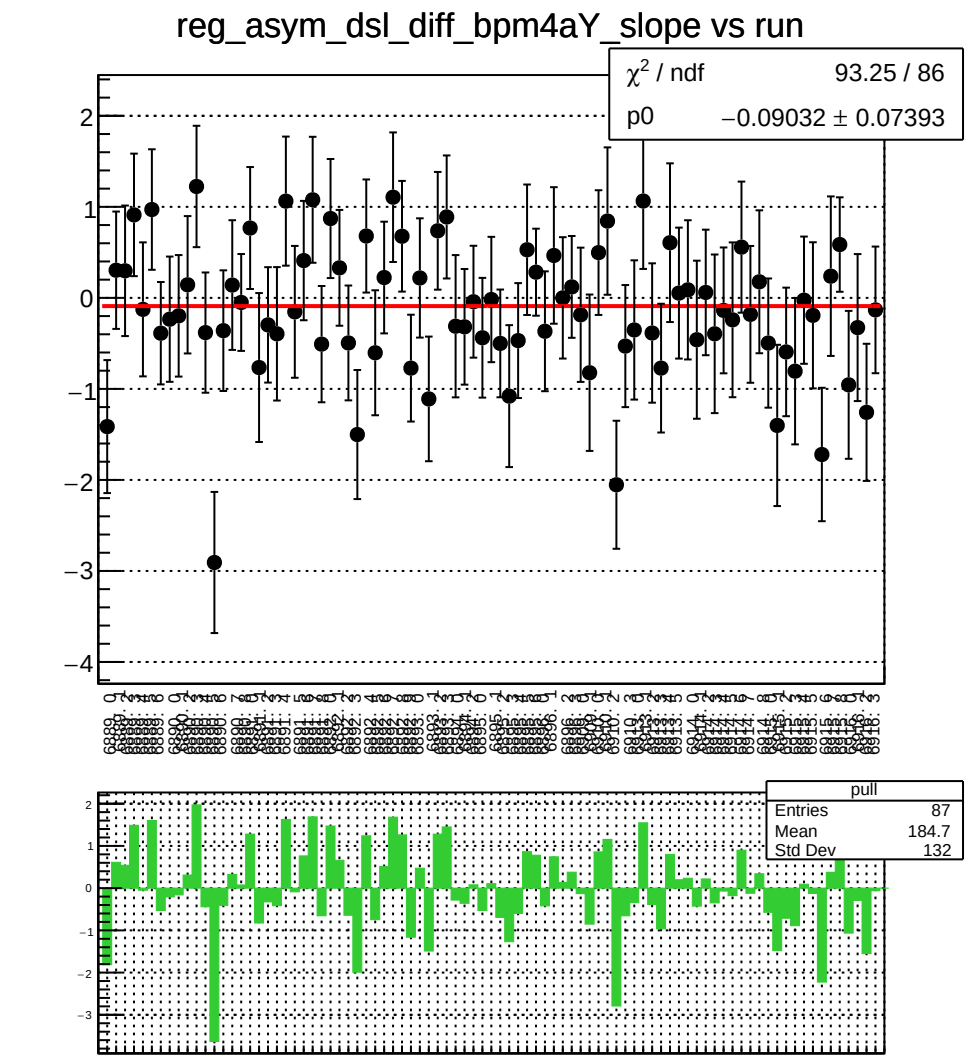

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 29.56 / 86
p0 11.88 ± 1.731
pull
Entries 87
Mean 384.7
Std Dev 327.2

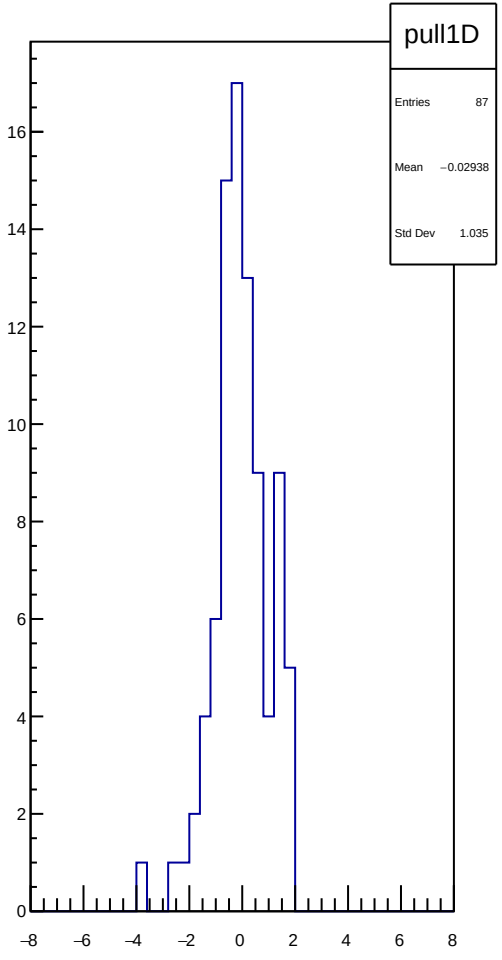

pull1D
Entries 87
Mean 0.004248
Std Dev 0.5829

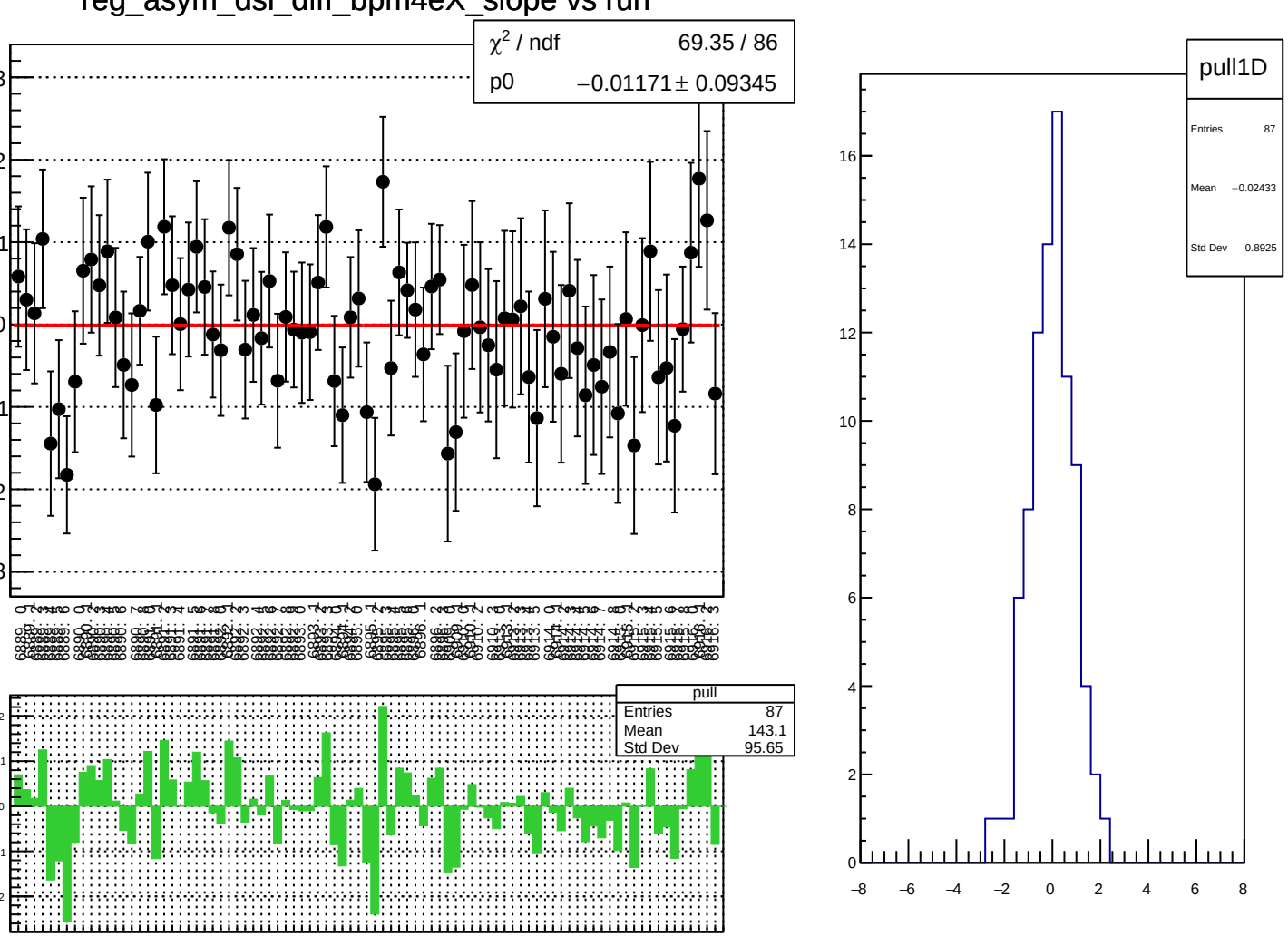

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 77.44 / 86
p0 −37.57 ± 0.07629
pull
Entries 87
Mean 1959
Std Dev 1910

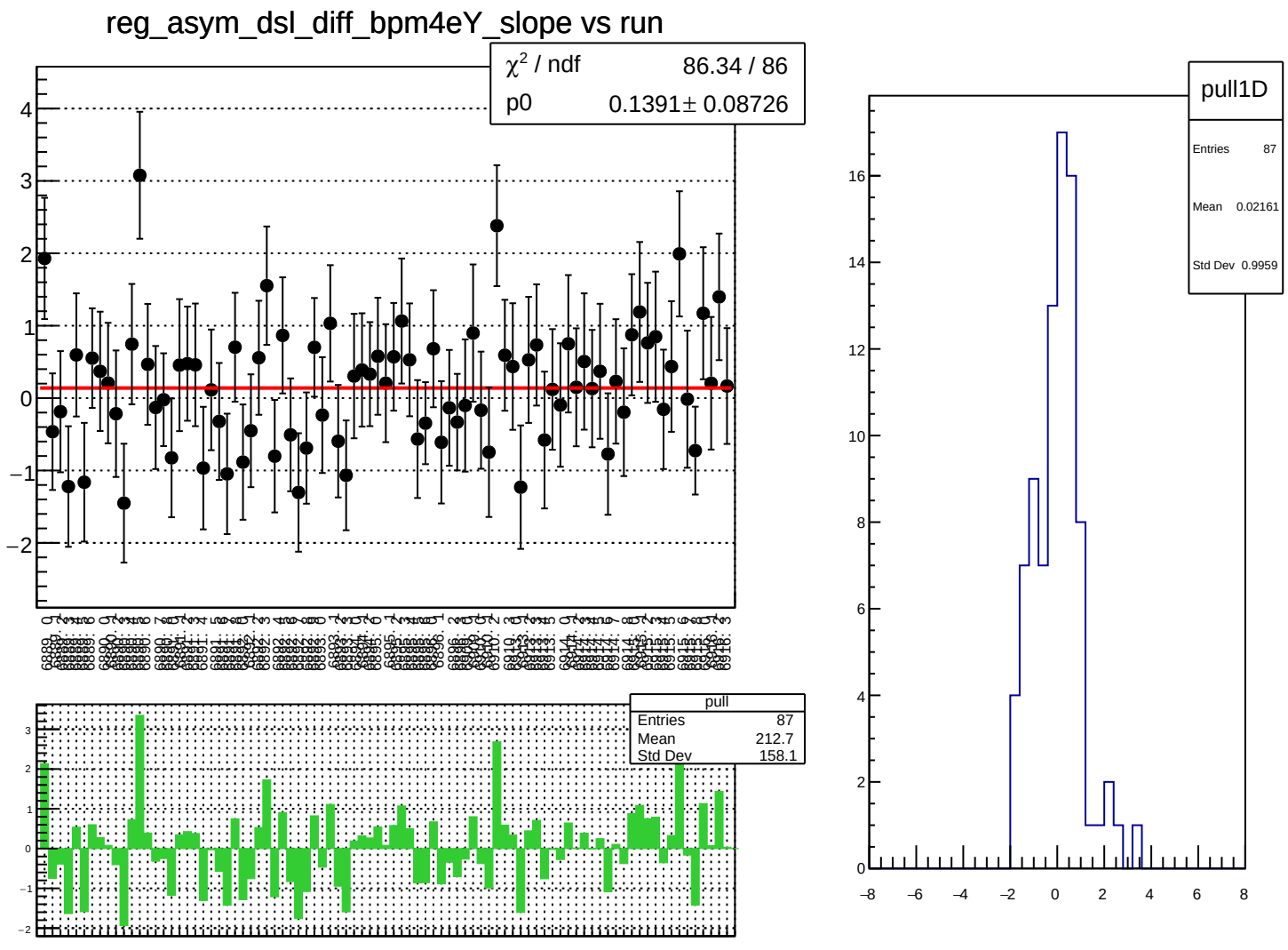

pull1D
Entries 87
Mean −0.007892
Std Dev 0.9435

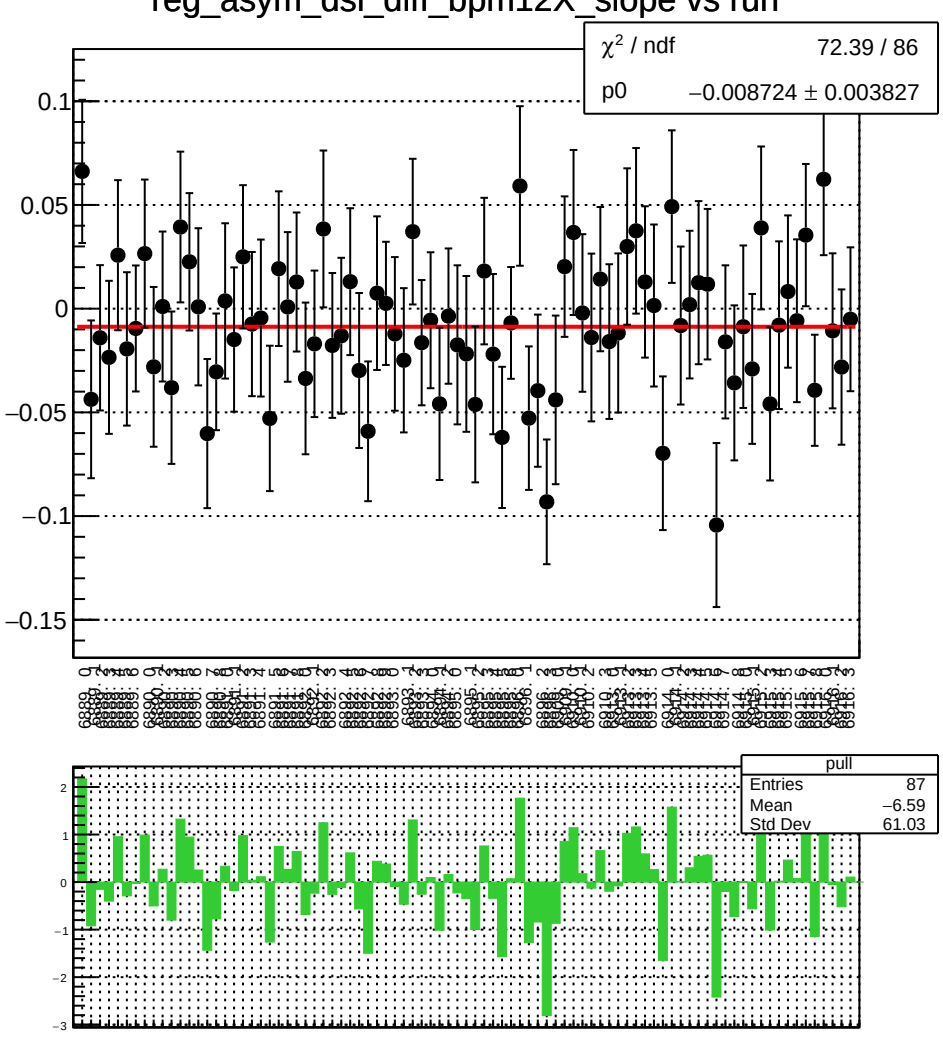

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 66.9 / 86
p0 −0.002231 ± 0.09755
pull
Entries 87
Mean 128.2
Std Dev 81.67
pull1D
Entries 87
Mean 0.0258
Std Dev 0.8765

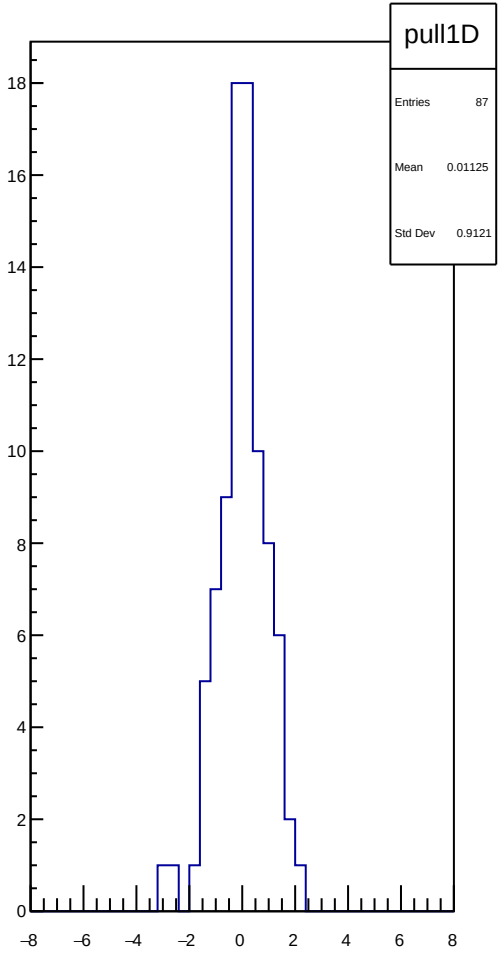

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 93.25 / 86
p0 −0.09032 ± 0.07393
pull
Entries 87
Mean 184.7
Std Dev 132

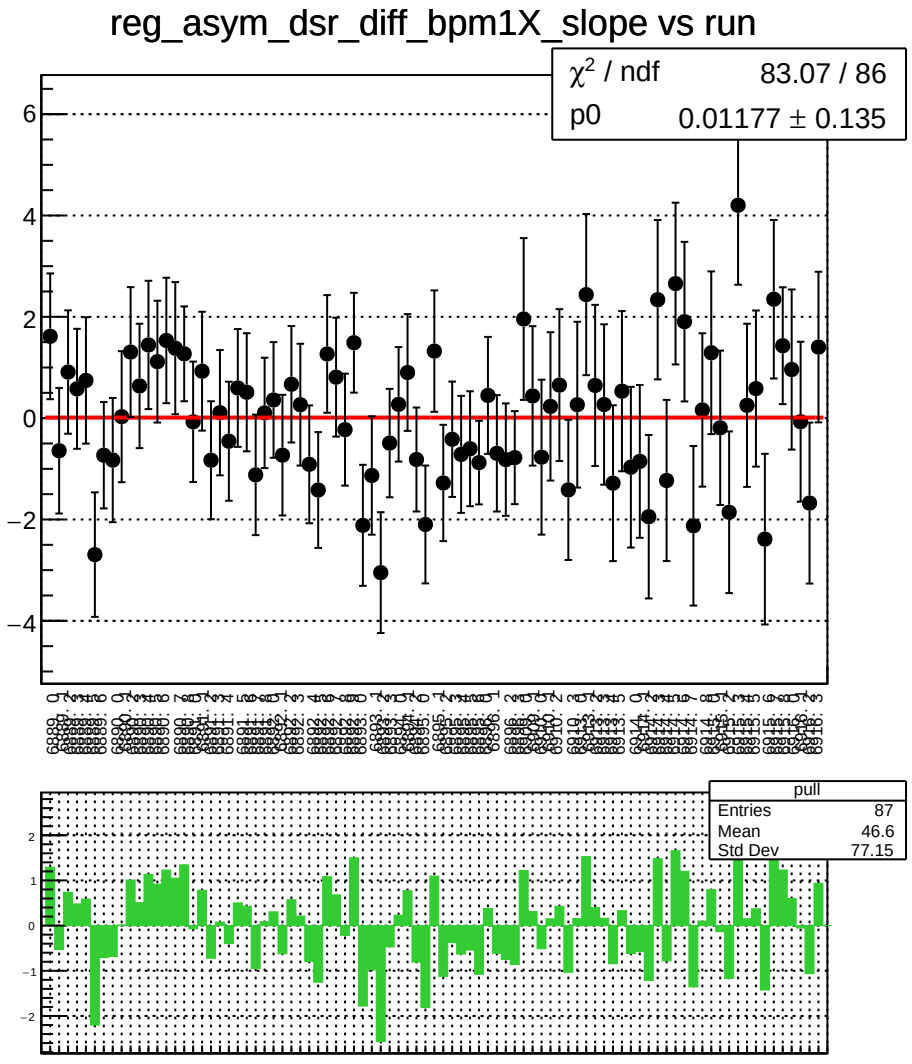

pull1D
Entries 87
Mean −0.02938
Std Dev 1.035

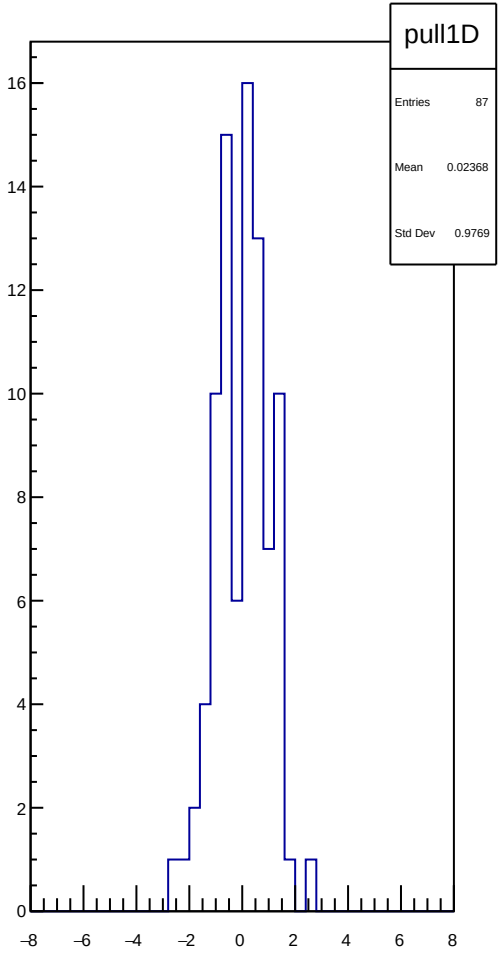

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 69.35 / 86
p0 −0.01171 ± 0.09345
pull
Entries 87
Mean 143.1
Std Dev 95.65
pull1D
Entries 87
Mean −0.02433
Std Dev 0.8925

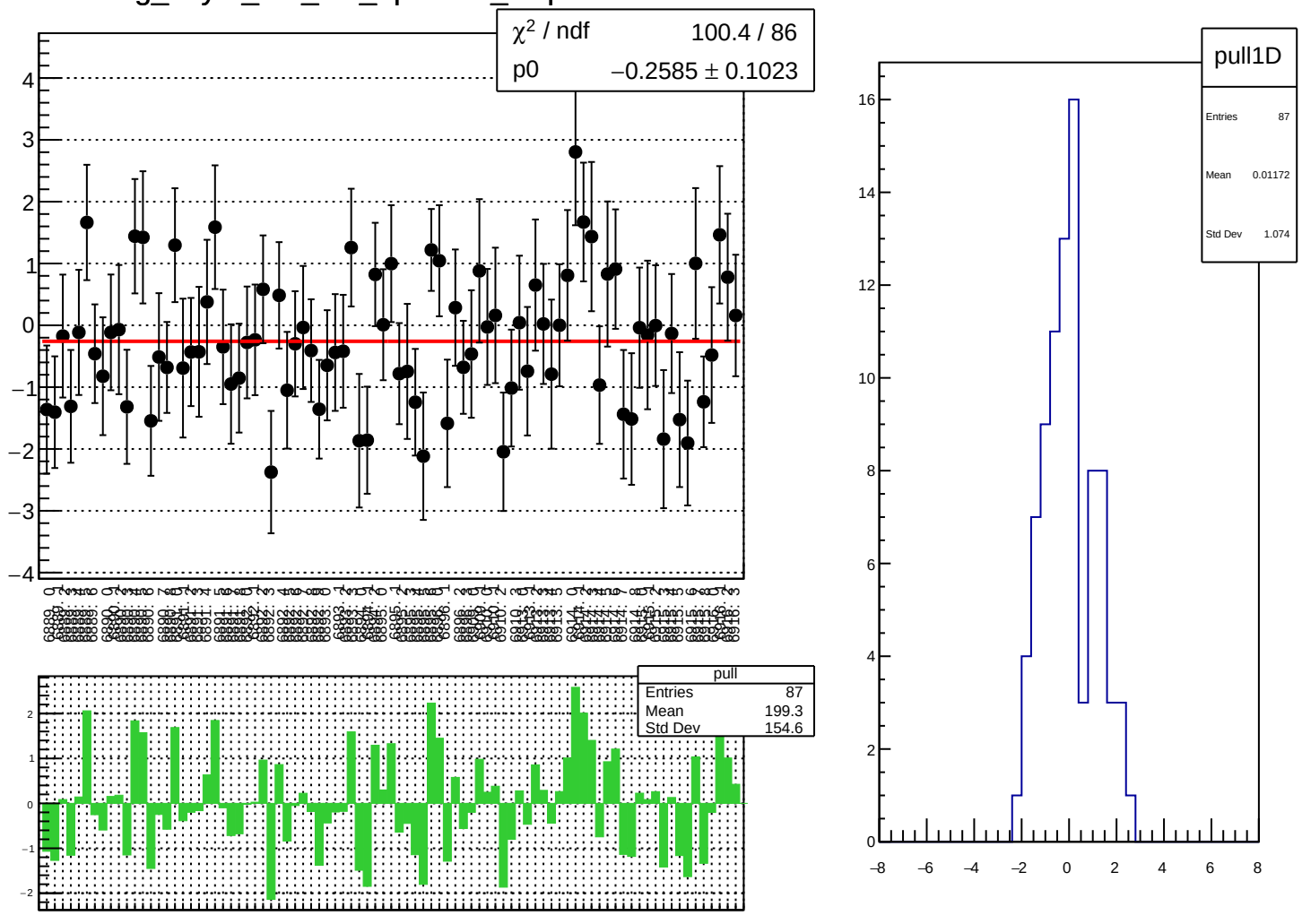

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 86.34 / 86
p0 0.1391± 0.08726
pull
Entries 87
Mean 212.7
Std Dev 158.1
pull1D
Entries 87
Mean 0.02161
Std Dev 0.9959

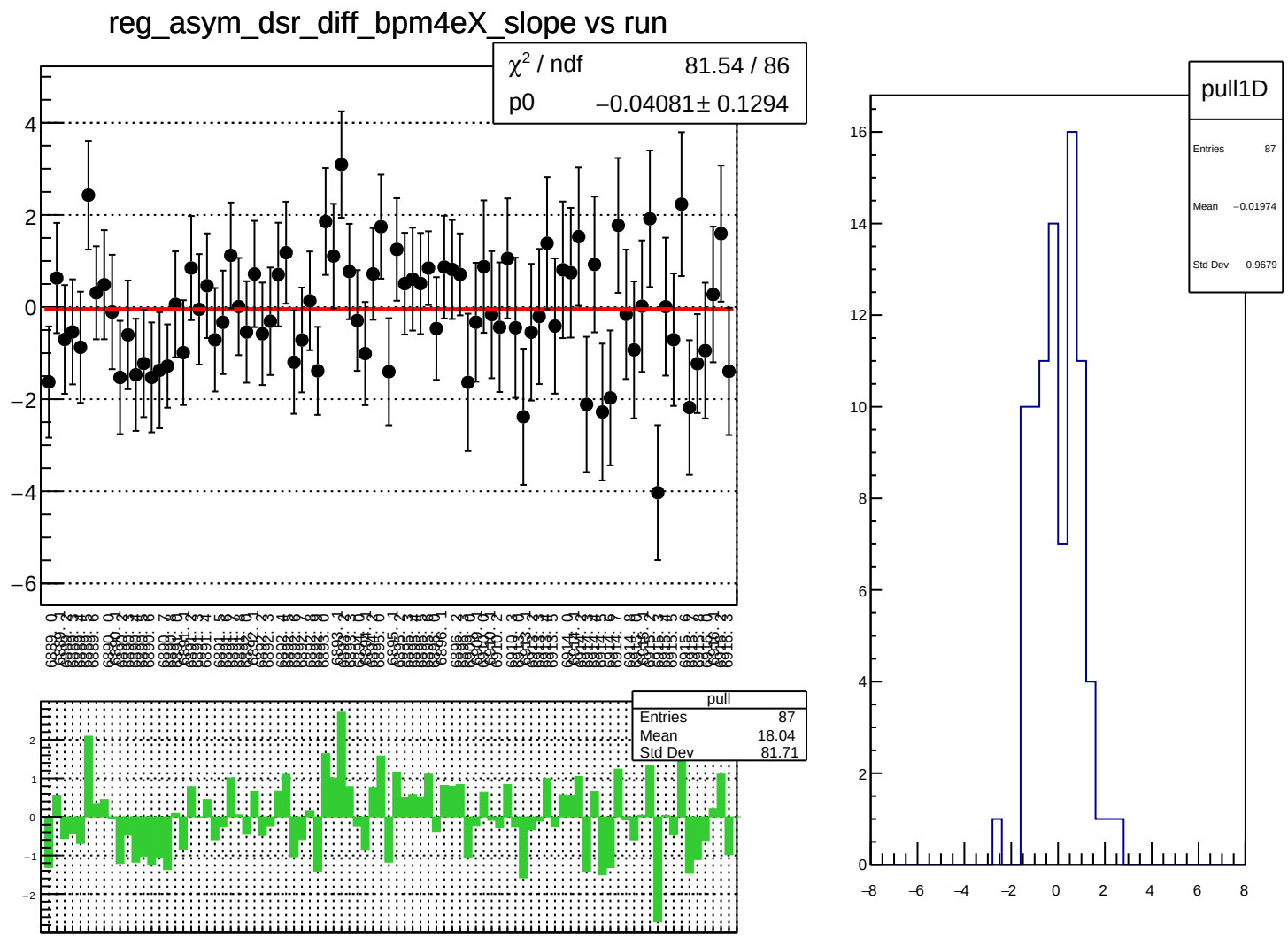

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 72.39 / 86
p0 −0.008724 ± 0.003827
pull
Entries 87
Mean −6.59
Std Dev 61.03

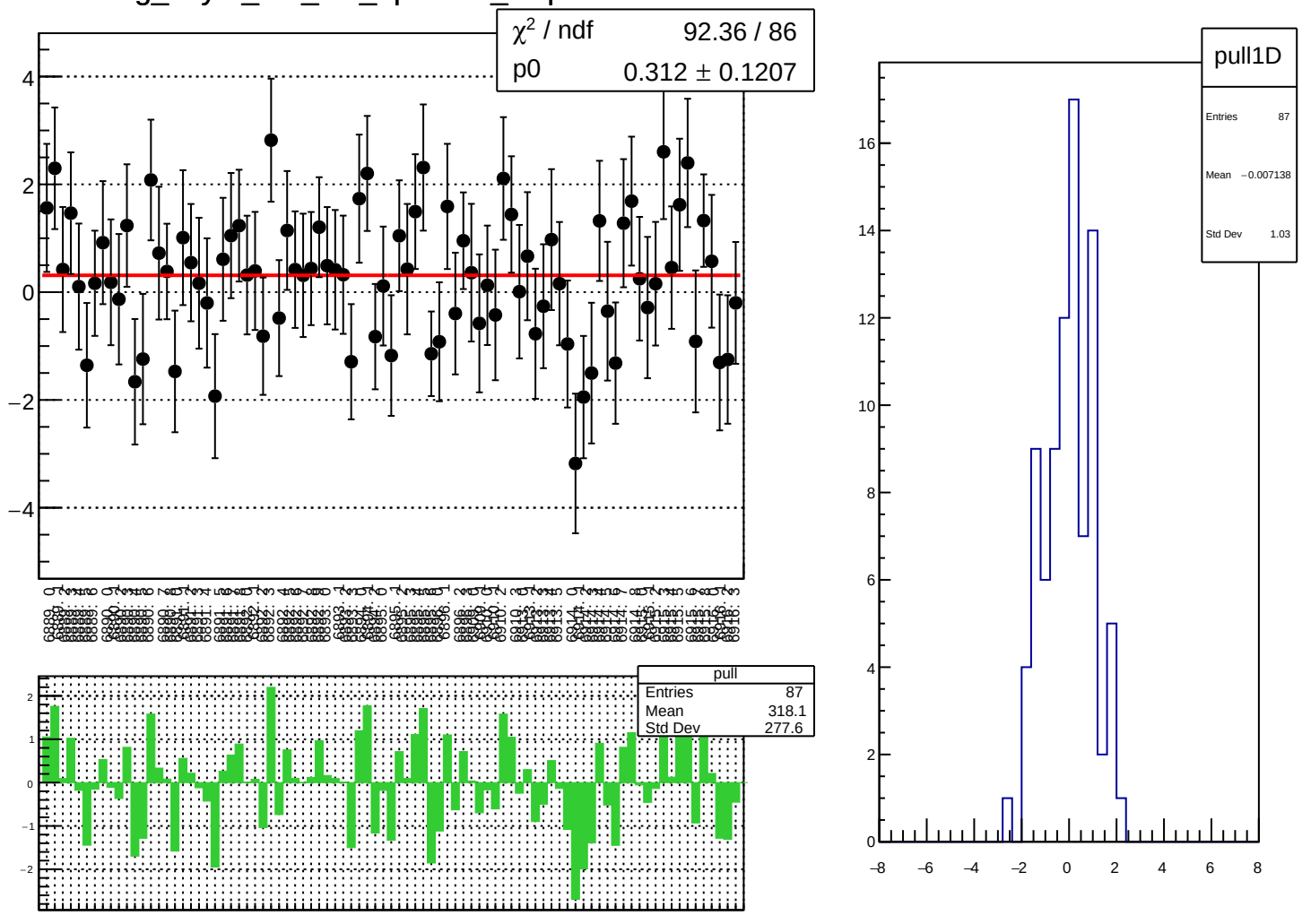

pull1D
Entries 87
Mean 0.01125
Std Dev 0.9121

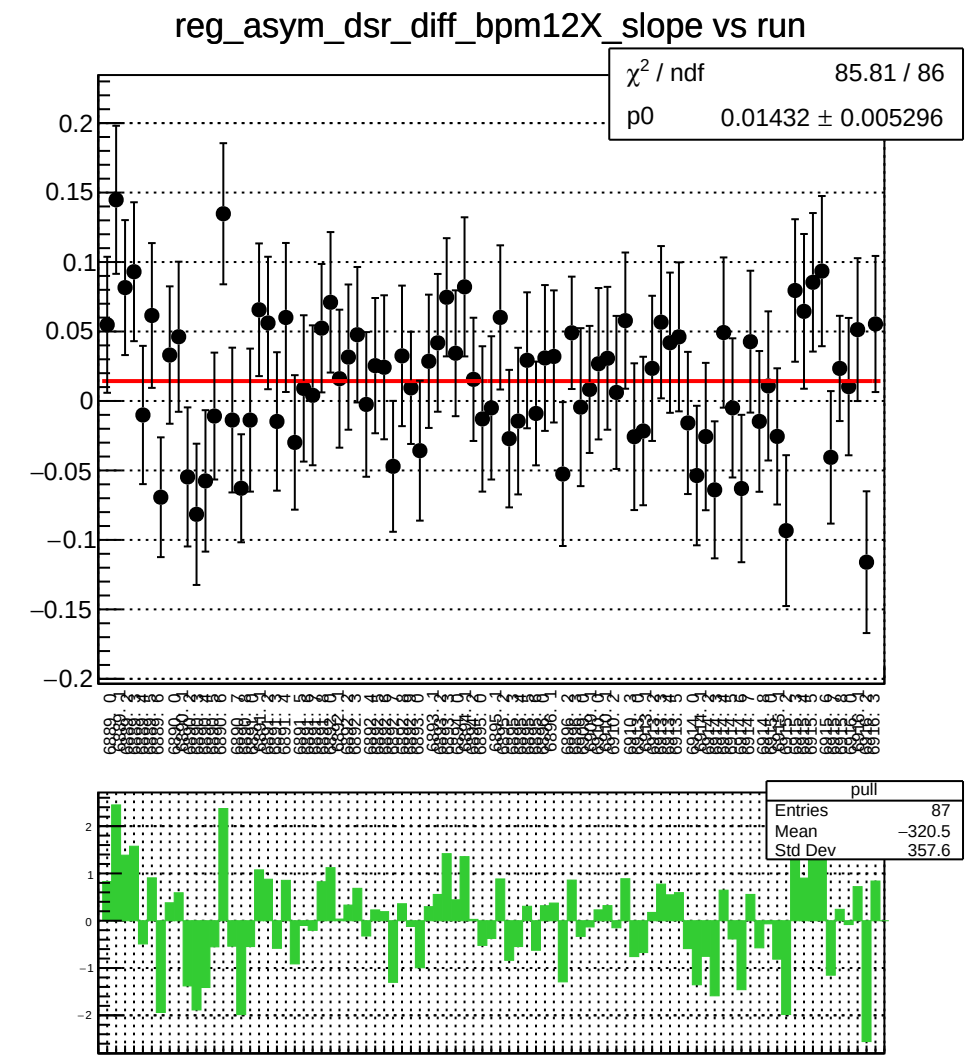

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 83.07 / 86
p0 0.01177 ± 0.135
pull
Entries 87
Mean 46.6
Std Dev 77.15

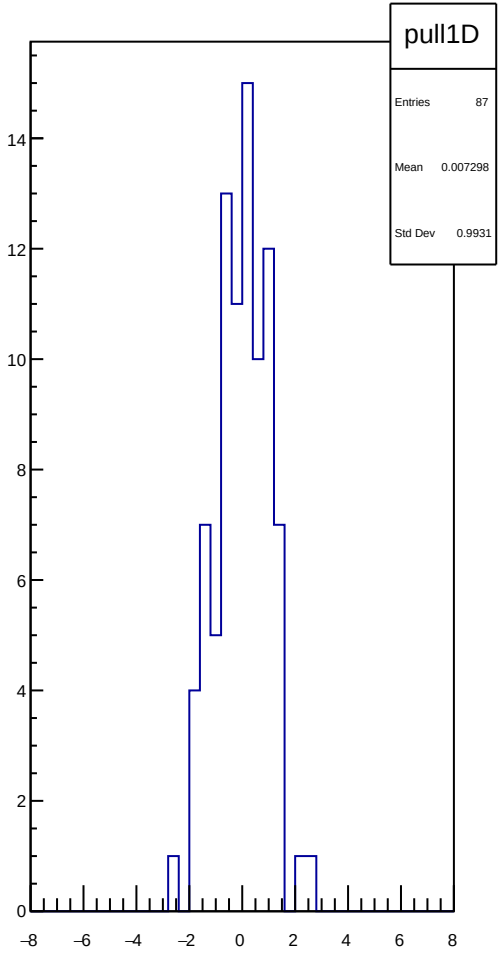

pull1D
Entries 87
Mean 0.02368
Std Dev 0.9769

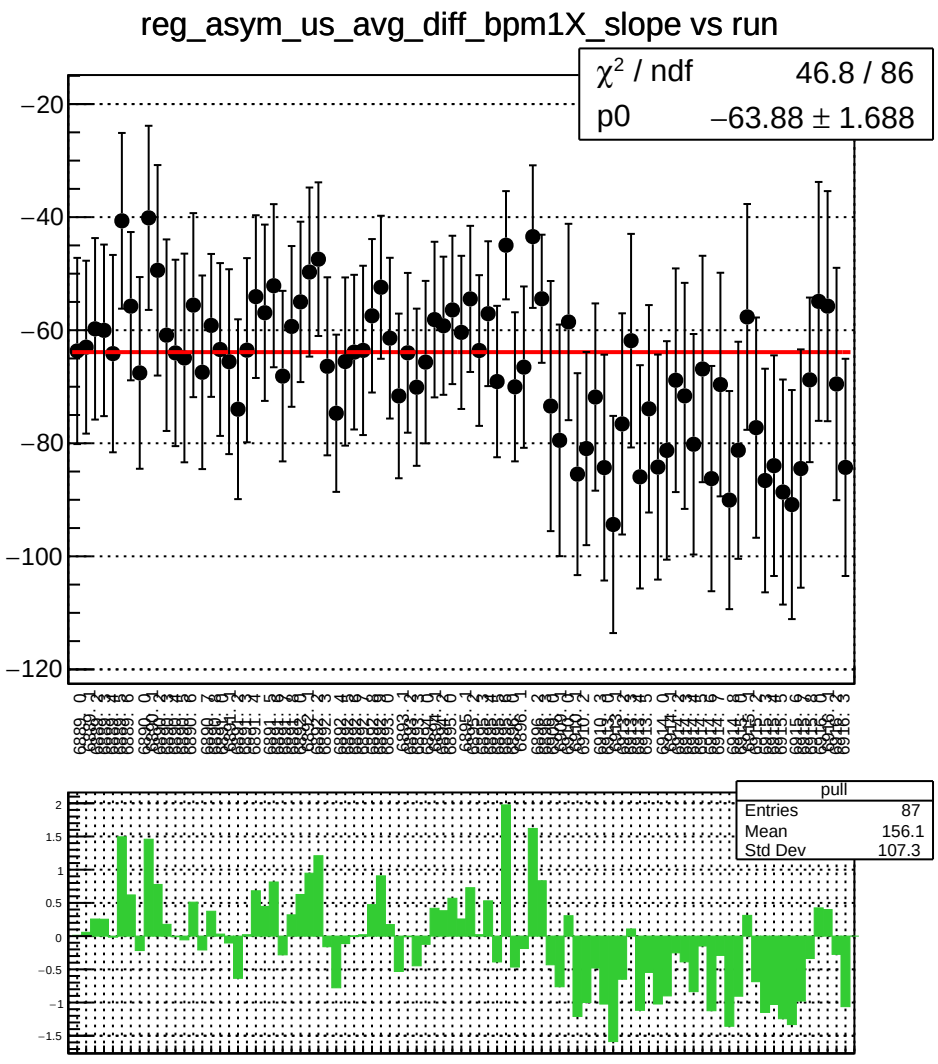

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 100.4 / 86
p0 −0.2585 ± 0.1023
pull
Entries 87
Mean 199.3
Std Dev 154.6
pull1D
Entries 87
Mean 0.01172
Std Dev 1.074

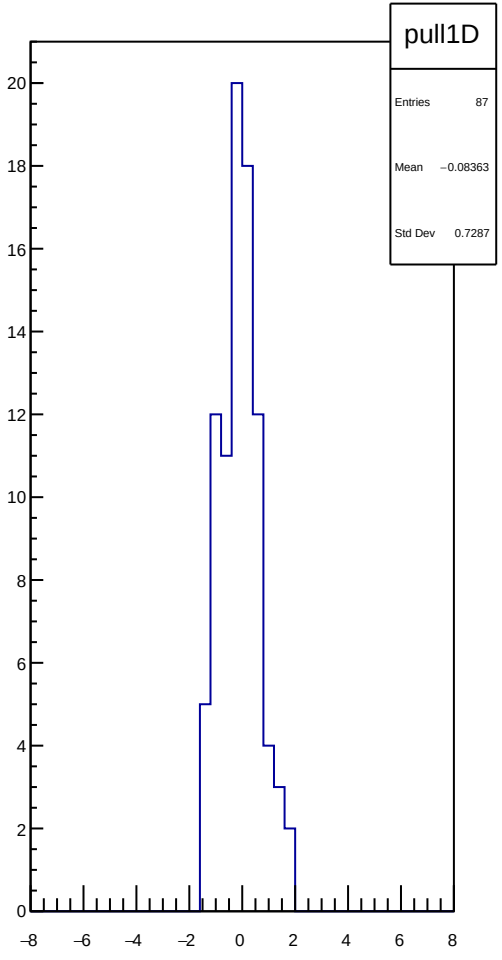

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 81.54 / 86
p0 −0.04081± 0.1294
pull
Entries 87
Mean 18.04
Std Dev 81.71
pull1D
Entries 87
Mean −0.01974
Std Dev 0.9679

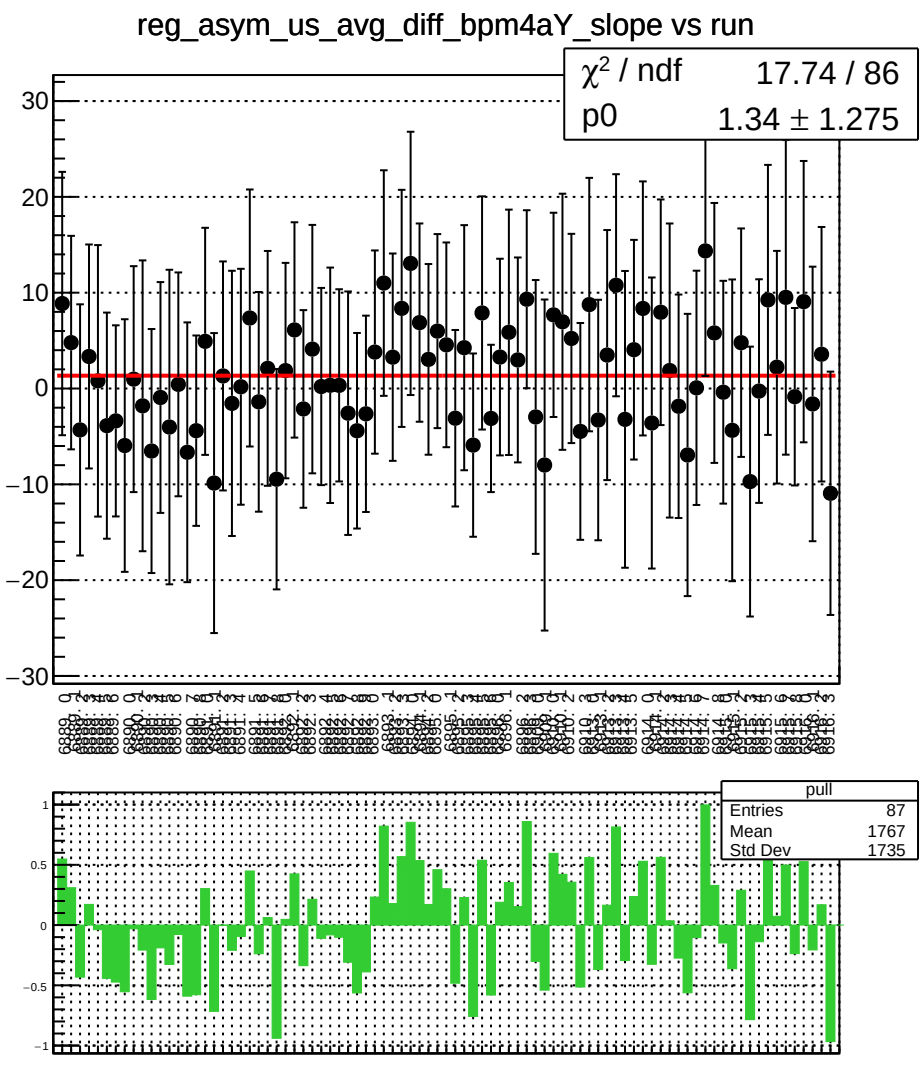

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 92.36 / 86
p0 0.312 ± 0.1207
pull
Entries 87
Mean 318.1
Std Dev 277.6
pull1D
Entries 87
Mean −0.007138
Std Dev 1.03

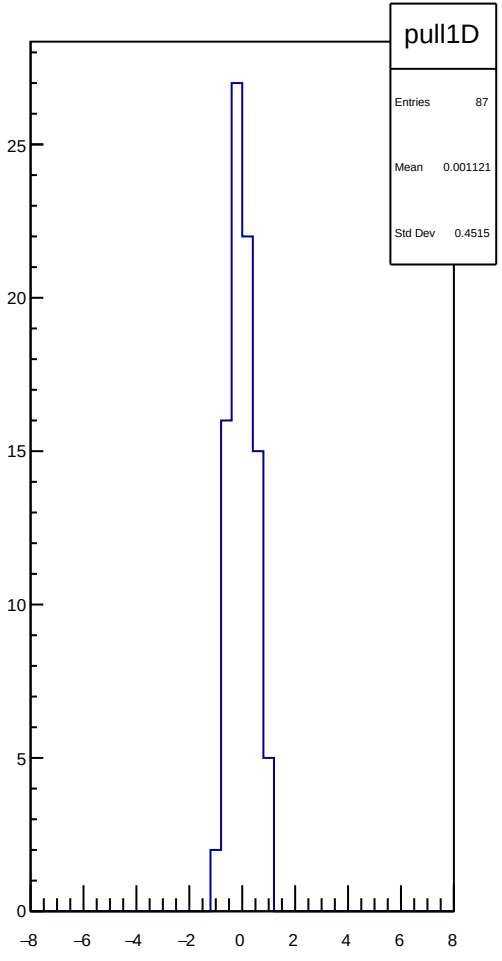

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 85.81 / 86
p0 0.01432 ± 0.005296
pull
Entries 87
Mean −320.5
Std Dev 357.6

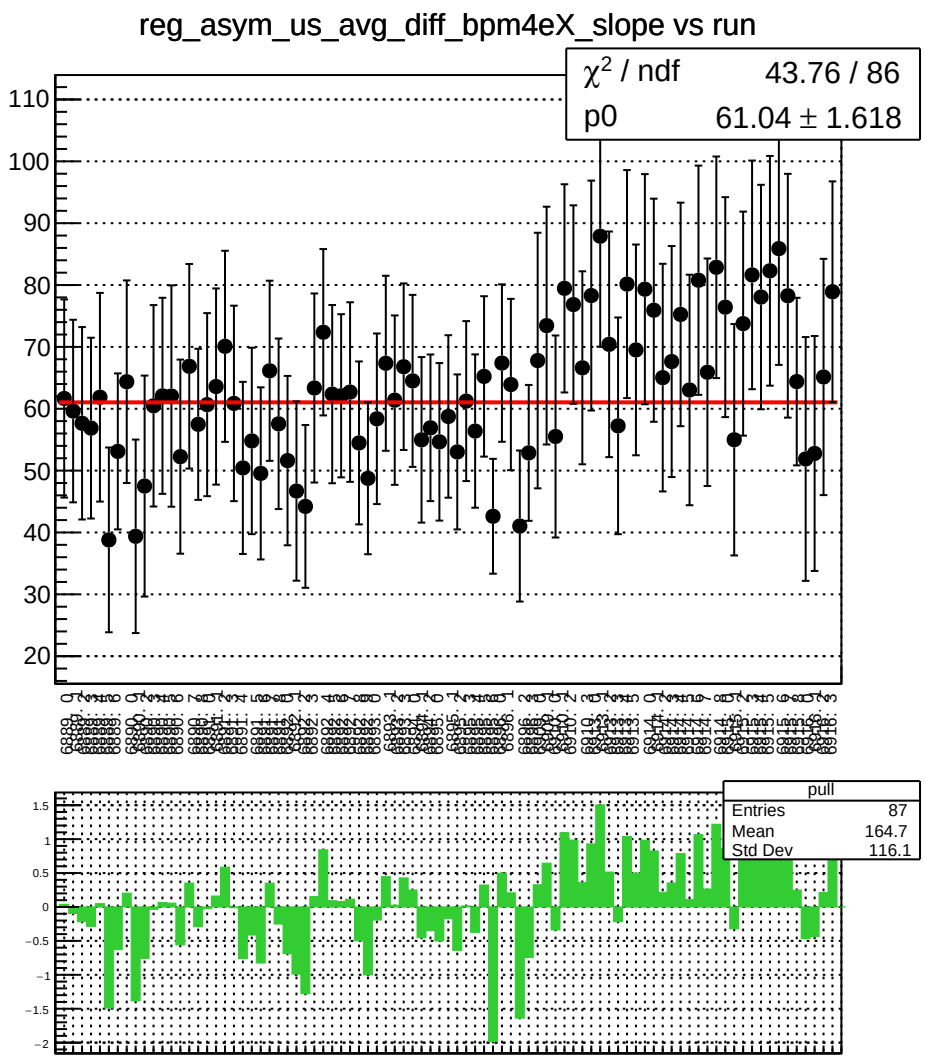

pull1D
Entries 87
Mean 0.007298
Std Dev 0.9931

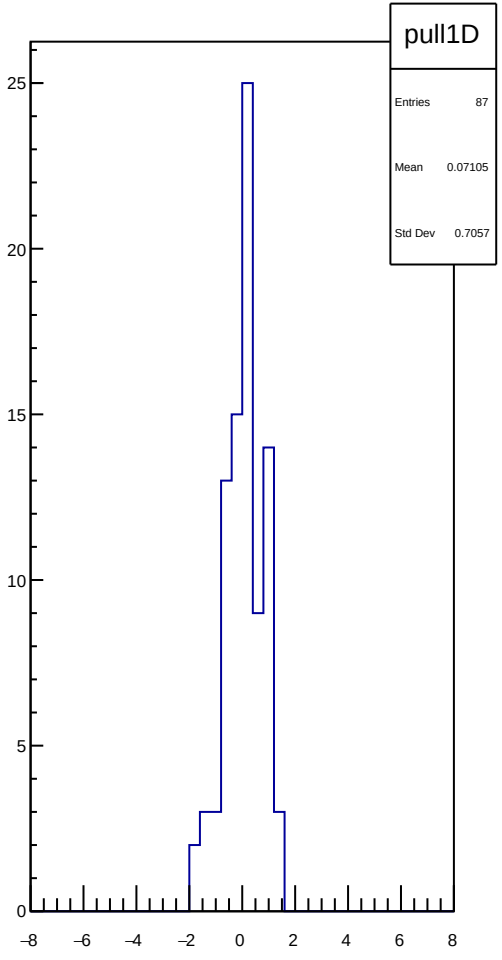

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 46.8 / 86
p0 −63.88 ± 1.688
pull
Entries 87
Mean 156.1
Std Dev 107.3

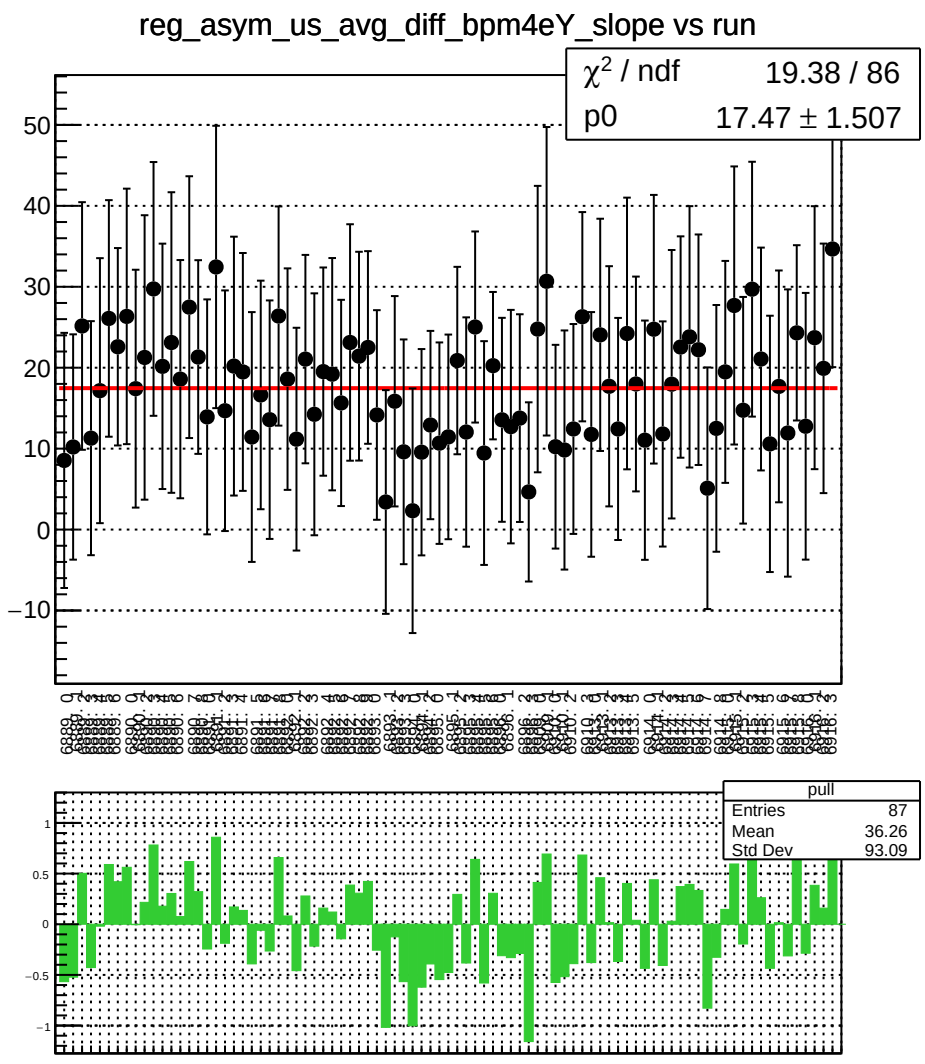

pull1D
Entries 87
Mean −0.08363
Std Dev 0.7287

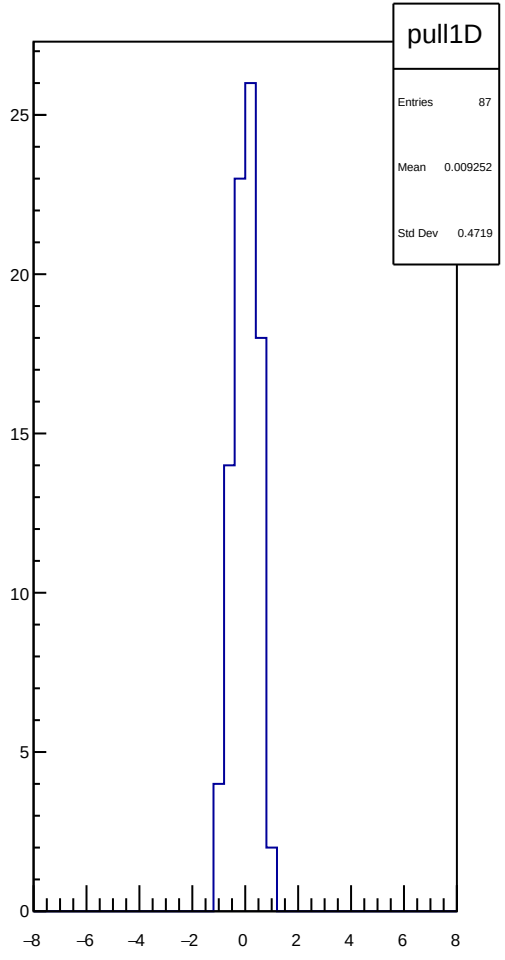

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.74 / 86
p0 1.34 ± 1.275
pull
Entries 87
Mean 1767
Std Dev 1735

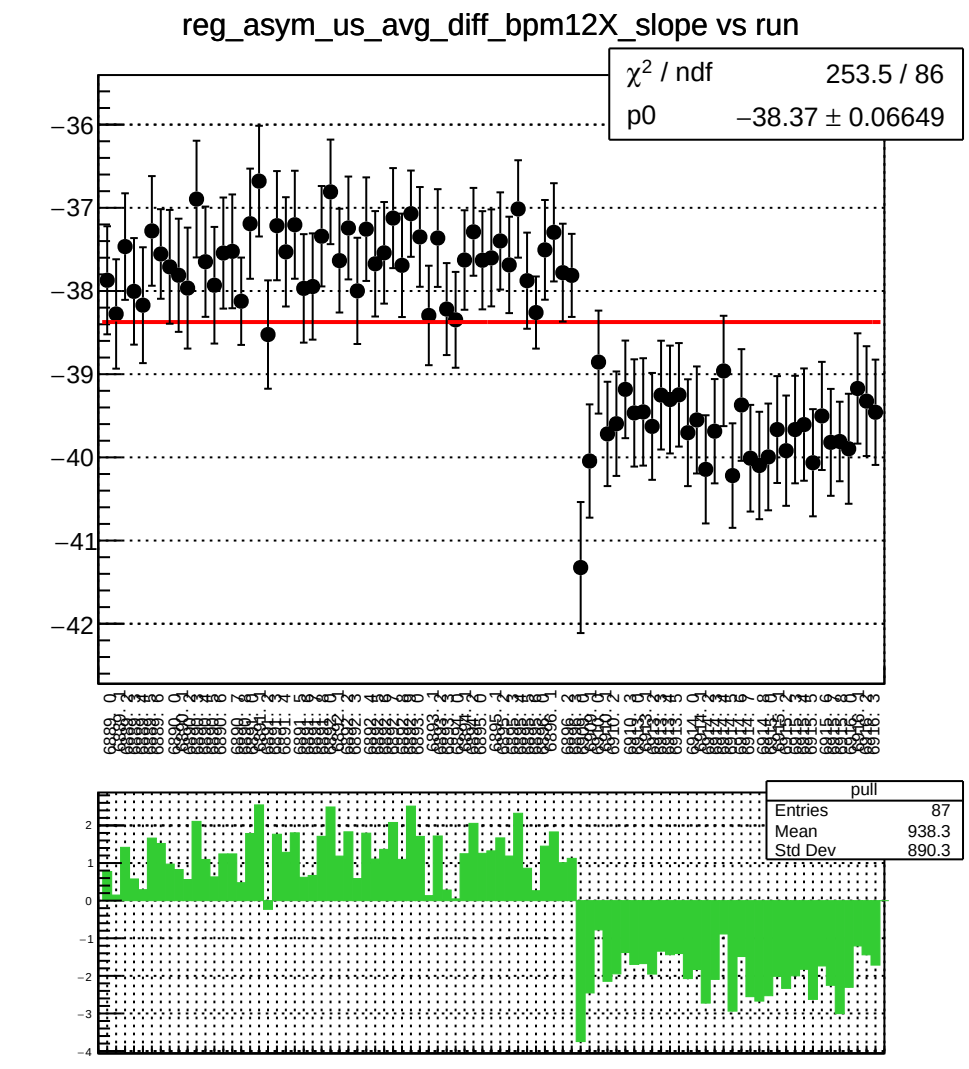

pull1D
Entries 87
Mean 0.001121
Std Dev 0.4515

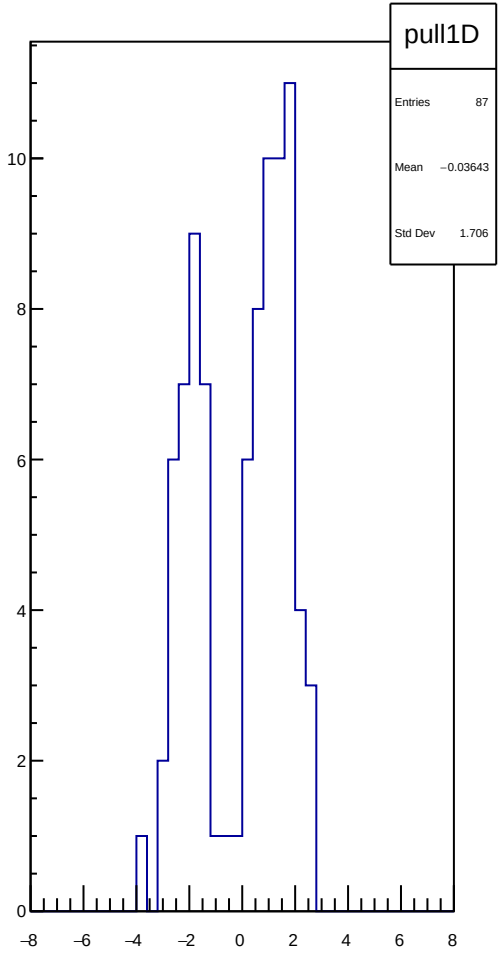

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.76 / 86
p0 61.04 ± 1.618
pull
Entries 87
Mean 164.7
Std Dev 116.1

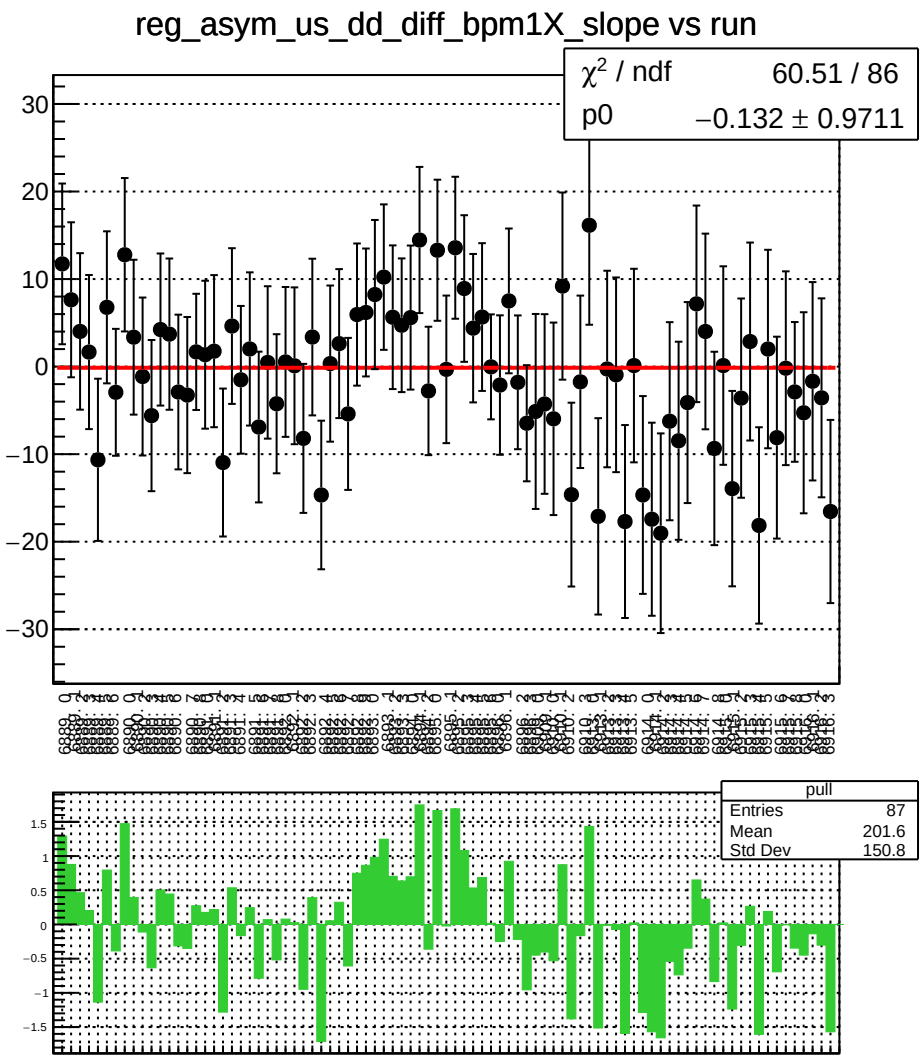

pull1D
Entries 87
Mean 0.07105
Std Dev 0.7057

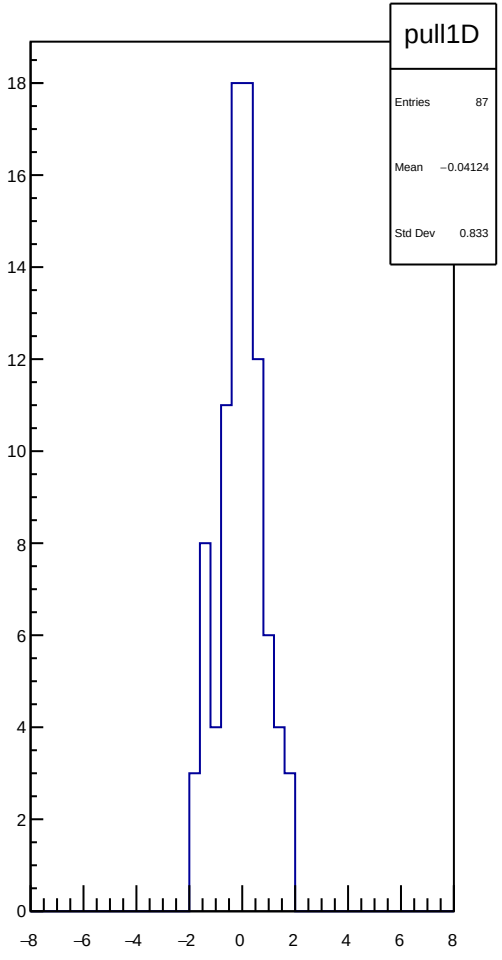

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.38 / 86
p0 17.47 ± 1.507
pull
Entries 87
Mean 36.26
Std Dev 93.09

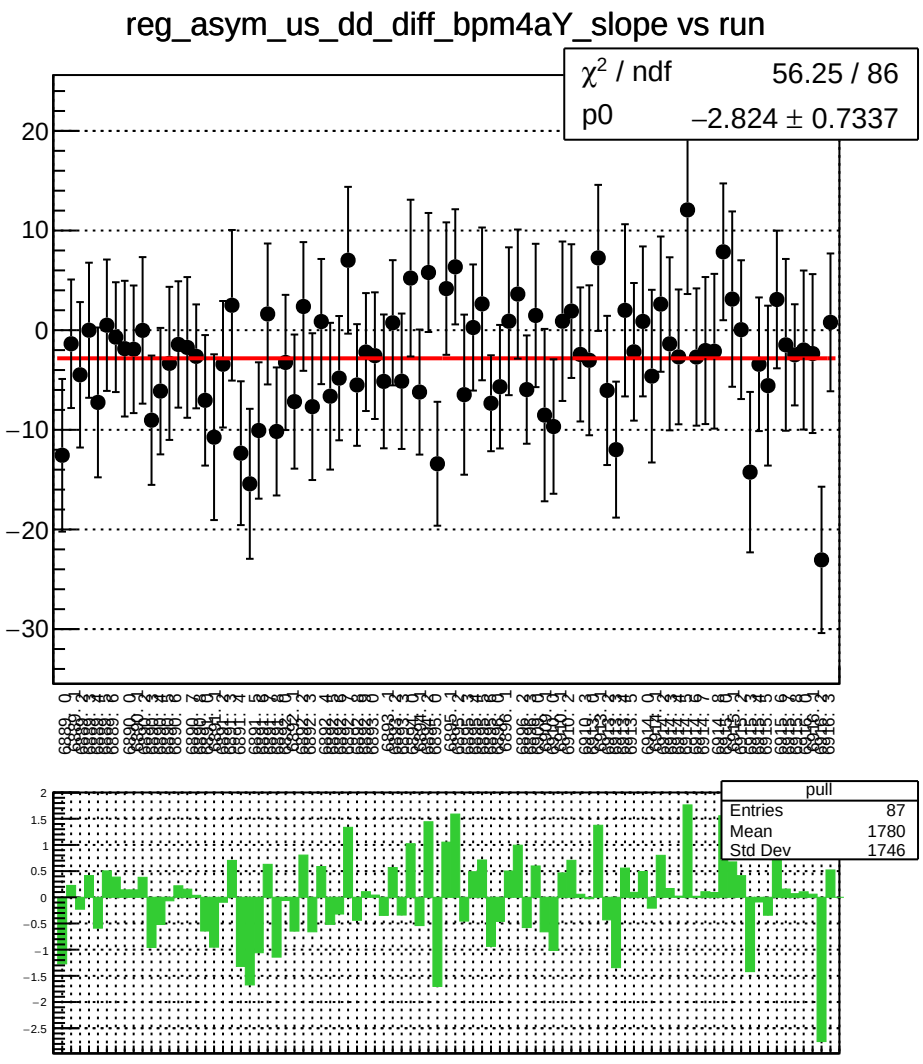

pull1D
Entries 87
Mean 0.009252
Std Dev 0.4719

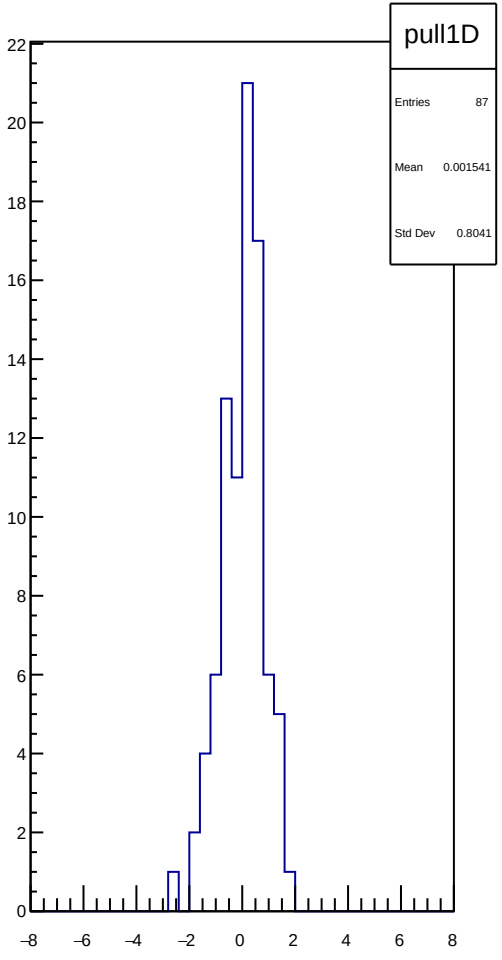

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 253.5 / 86
p0 −38.37 ± 0.06649
pull
Entries 87
Mean 938.3
Std Dev 890.3

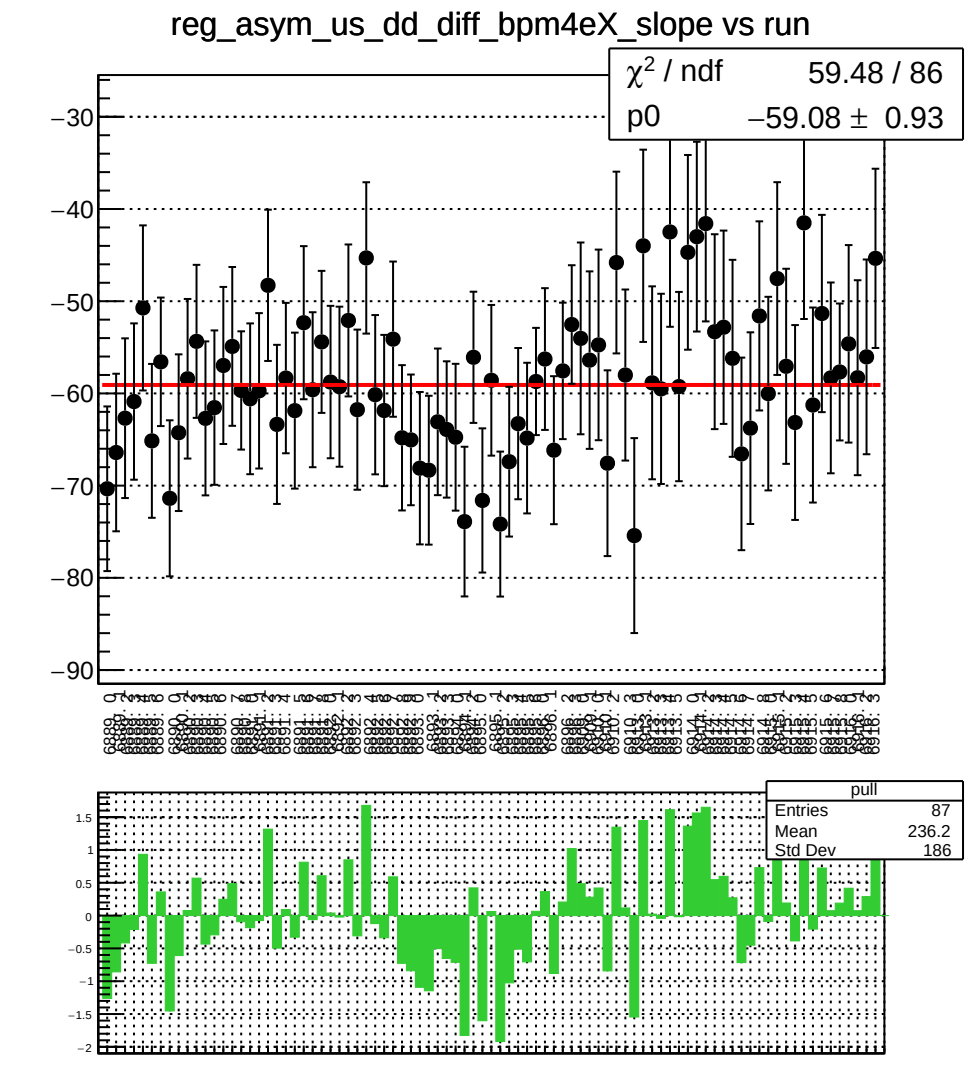

pull1D
Entries 87
Mean −0.03643
Std Dev 1.706

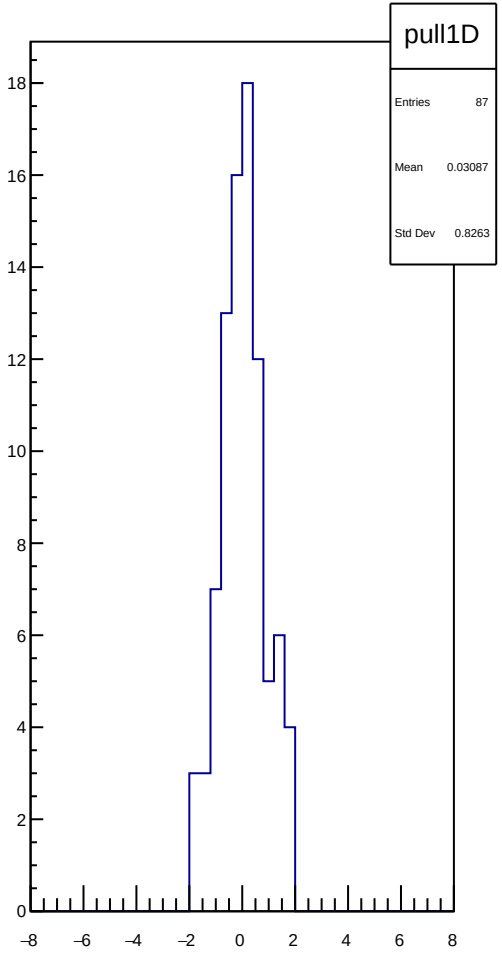

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 60.51 / 86
p0 −0.132 ± 0.9711
pull
Entries 87
Mean 201.6
Std Dev 150.8

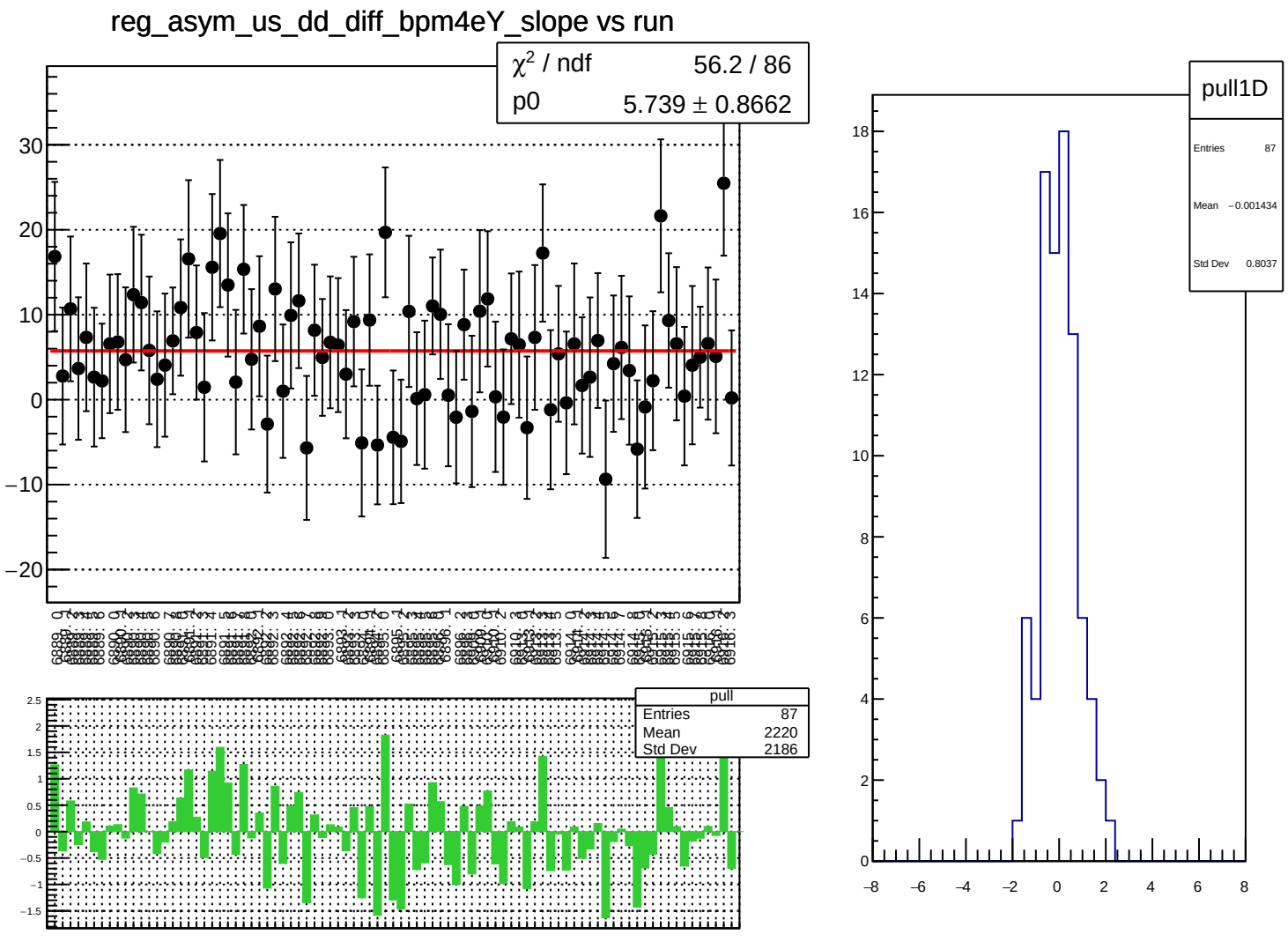

pull1D
Entries 87
Mean −0.04124
Std Dev 0.833

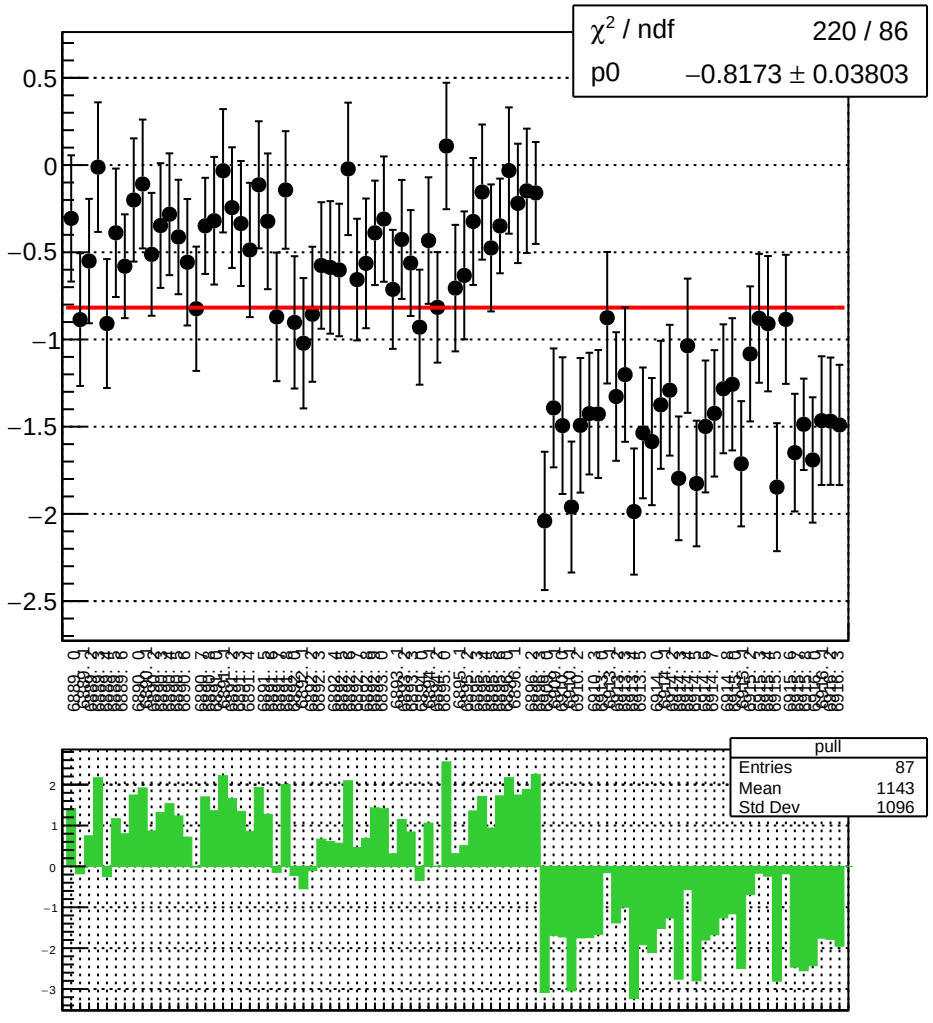

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.25 / 86
p0 −2.824 ± 0.7337
pull
Entries 87
Mean 1780
Std Dev 1746

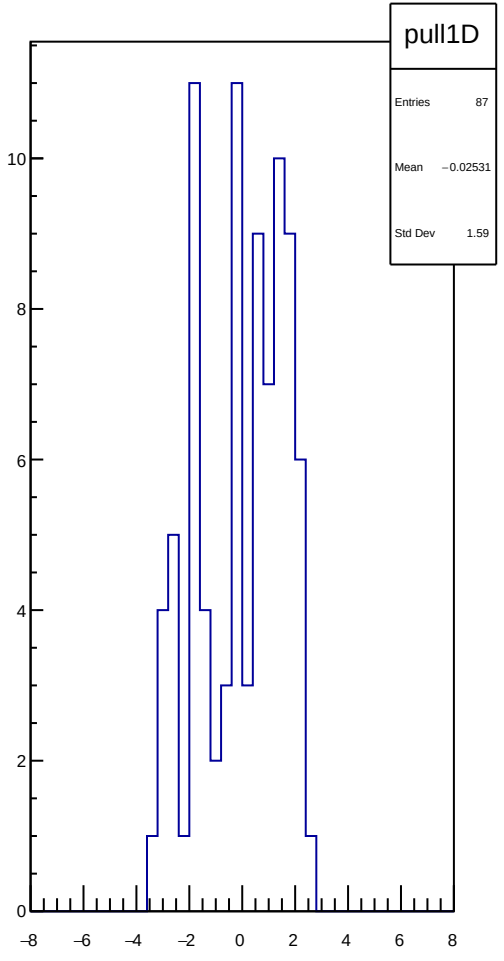

pull1D
Entries 87
Mean 0.001541
Std Dev 0.8041

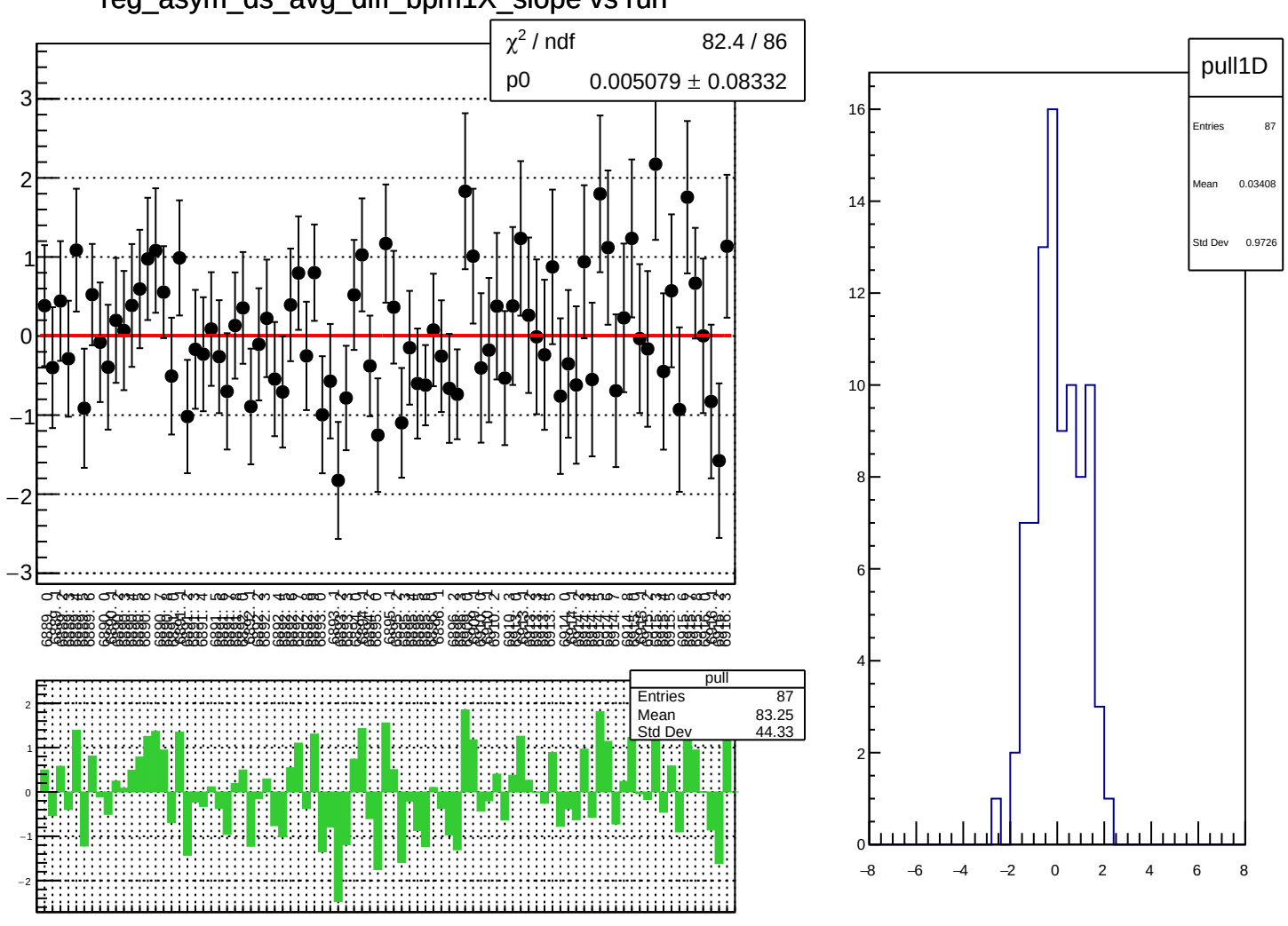

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 59.48 / 86
p0 −59.08 ± 0.93
pull
Entries 87
Mean 236.2
Std Dev 186

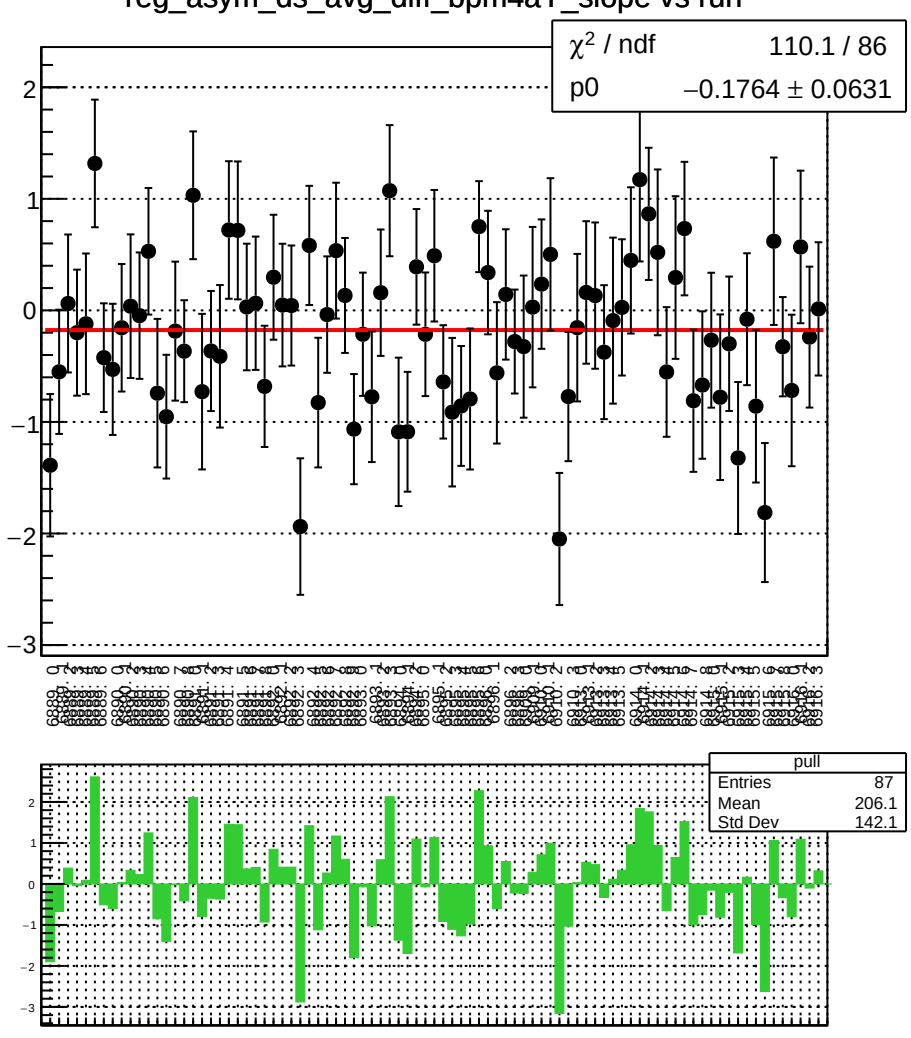

pull1D
Entries 87
Mean 0.03087
Std Dev 0.8263

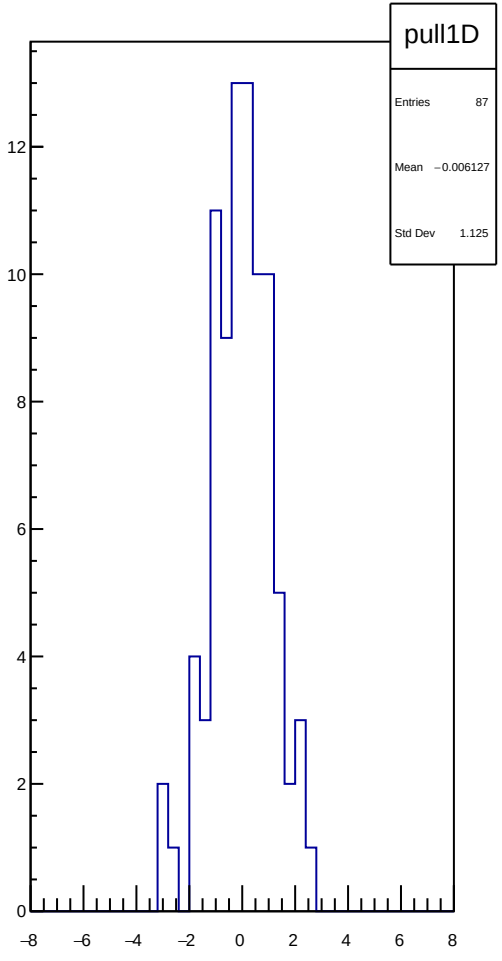

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.2 / 86
p0 5.739 ± 0.8662
pull
Entries 87
Mean 2220
Std Dev 2186
pull1D
Entries 87
Mean −0.001434
Std Dev 0.8037

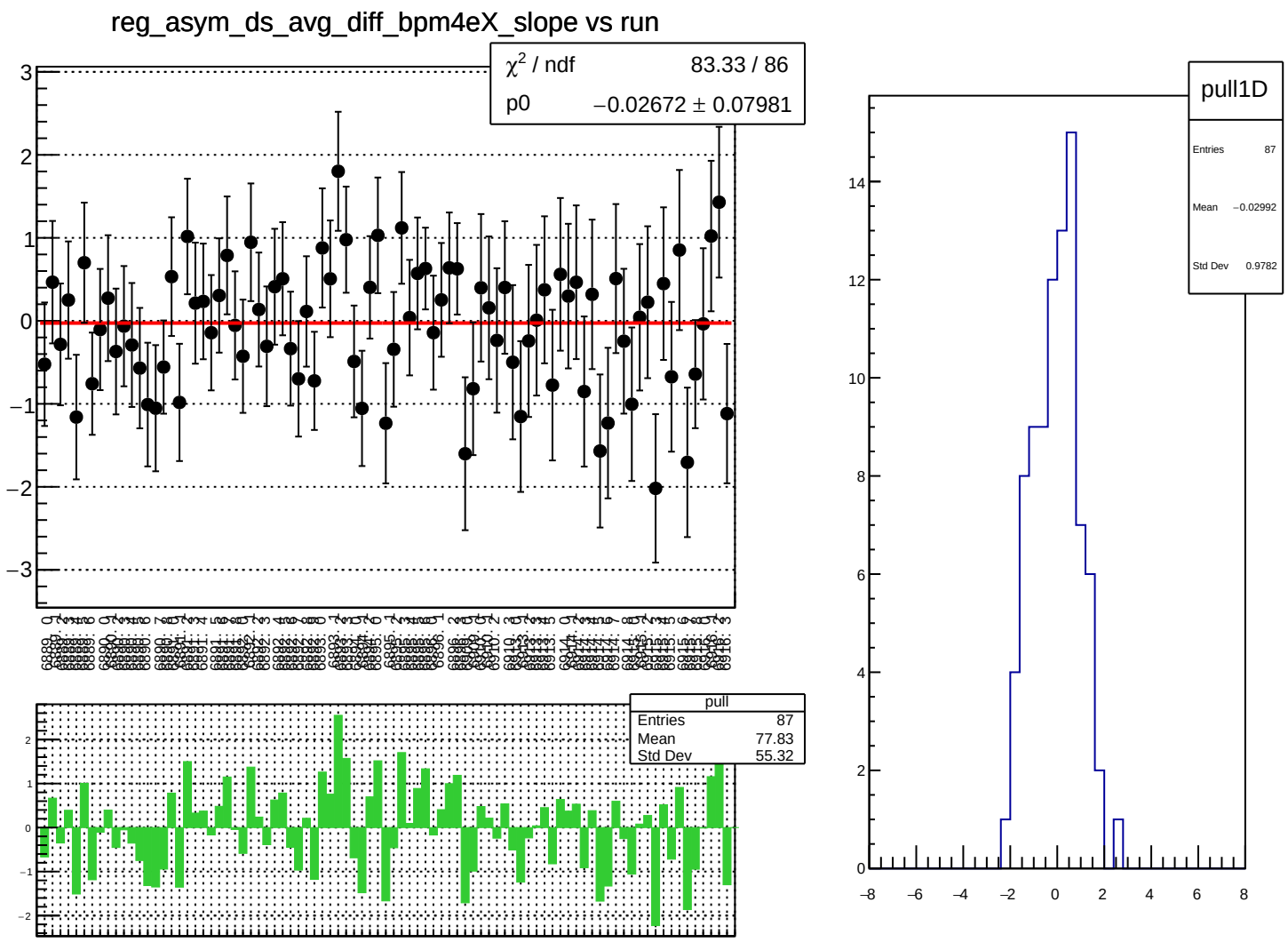

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 220 / 86
p0 −0.8173 ± 0.03803
pull
Entries 87
Mean 1143
Std Dev 1096

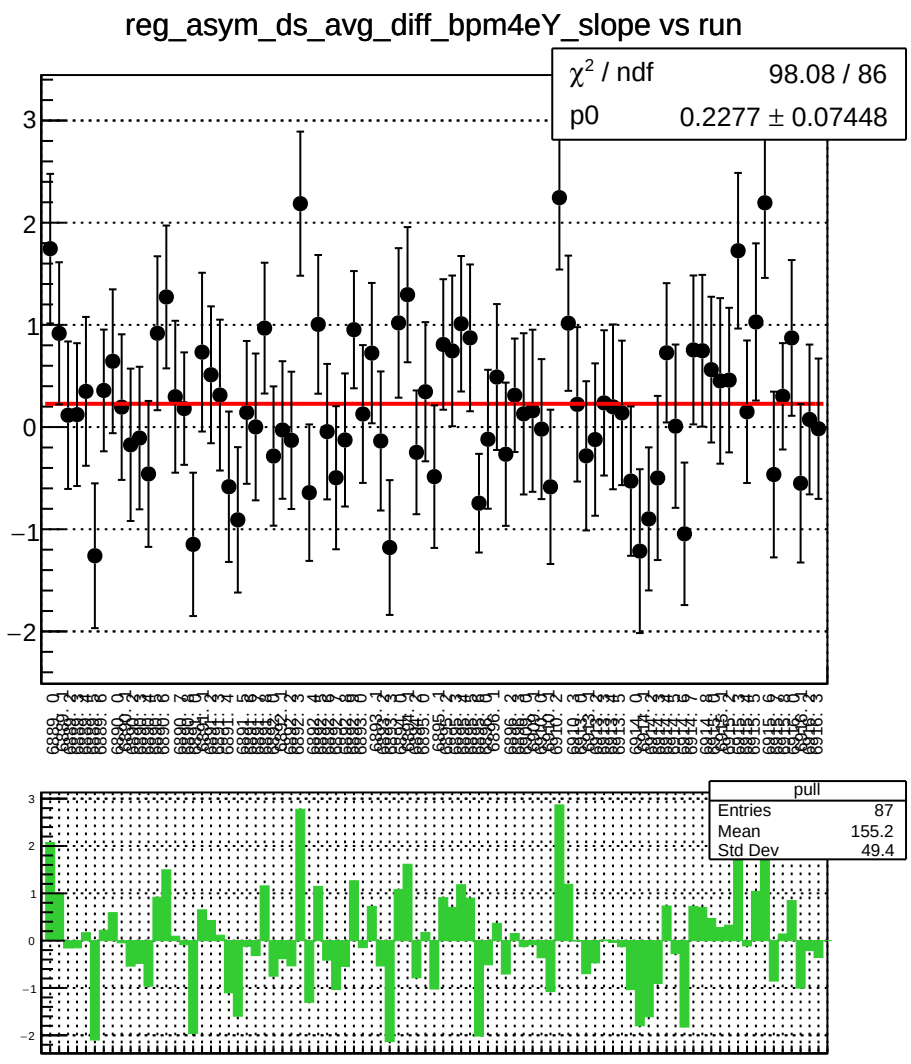

pull1D
Entries 87
Mean −0.02531
Std Dev 1.59

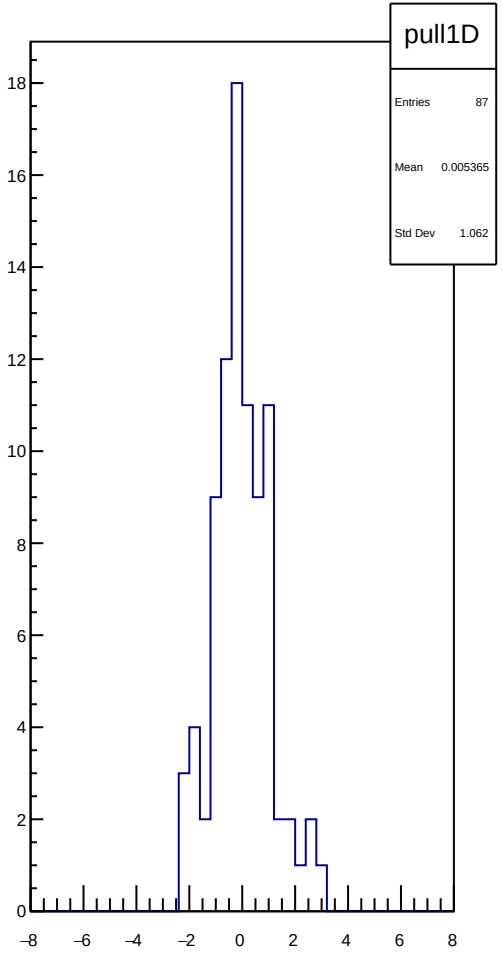

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 82.4 / 86
p0 0.005079 ± 0.08332
pull
Entries 87
Mean 83.25
Std Dev 44.33
pull1D
Entries 87
Mean 0.03408
Std Dev 0.9726

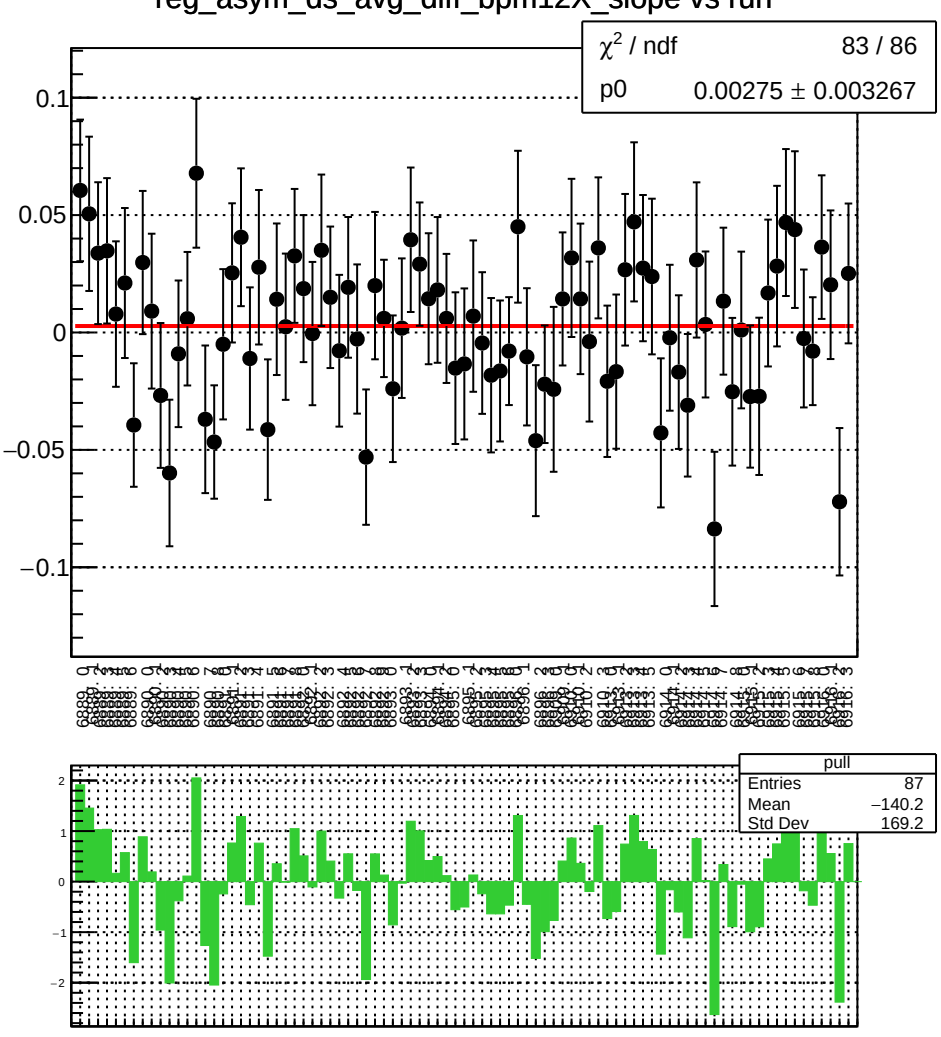

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 110.1 / 86
p0 −0.1764 ± 0.0631
pull
Entries 87
Mean 206.1
Std Dev 142.1

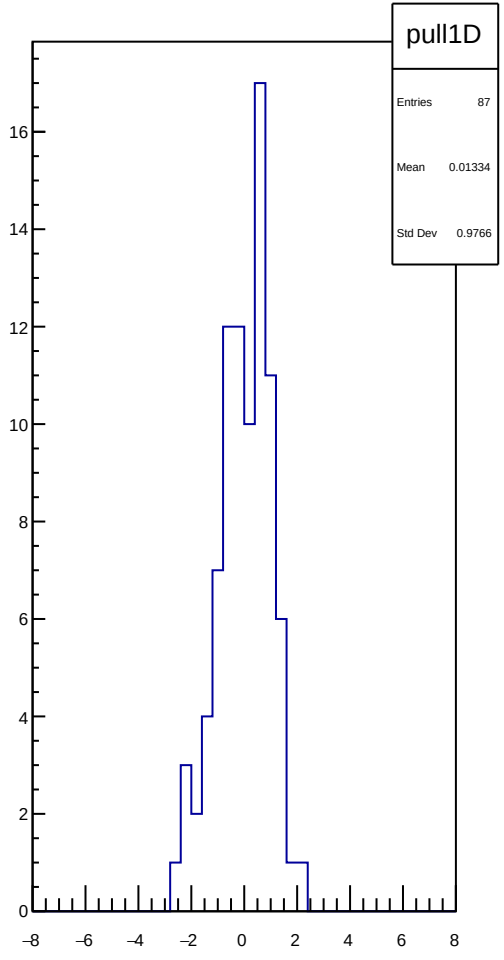

pull1D
Entries 87
Mean −0.006127
Std Dev 1.125

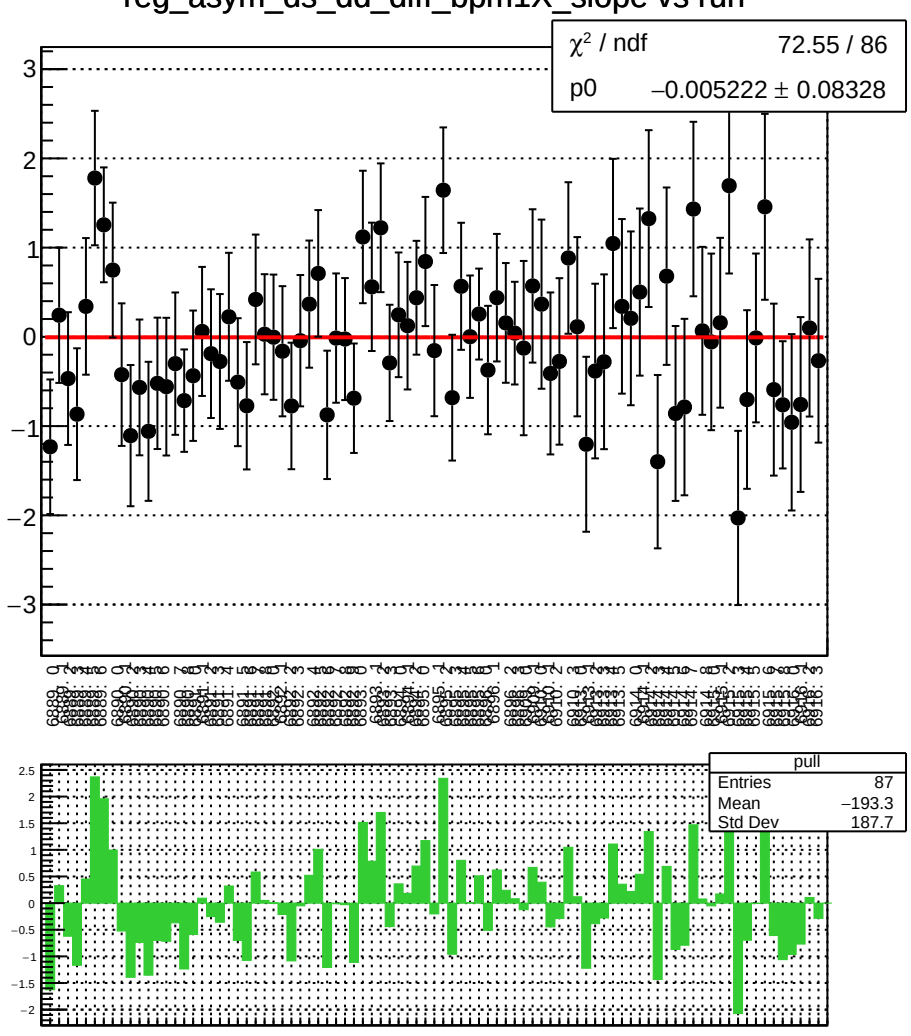

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 83.33 / 86
p0 −0.02672 ± 0.07981
pull
Entries 87
Mean 77.83
Std Dev 55.32
pull1D
Entries 87
Mean −0.02992
Std Dev 0.9782

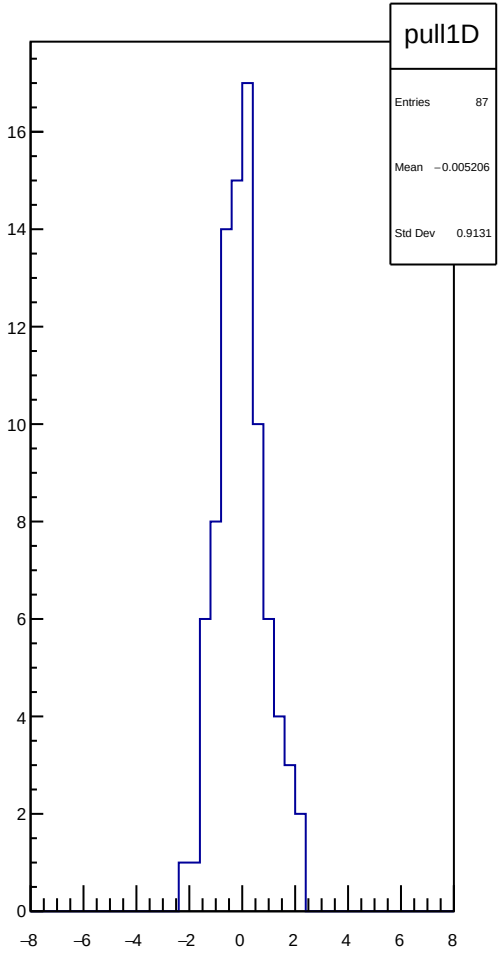

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 98.08 / 86
p0 0.2277 ± 0.07448
pull
Entries 87
Mean 155.2
Std Dev 49.4

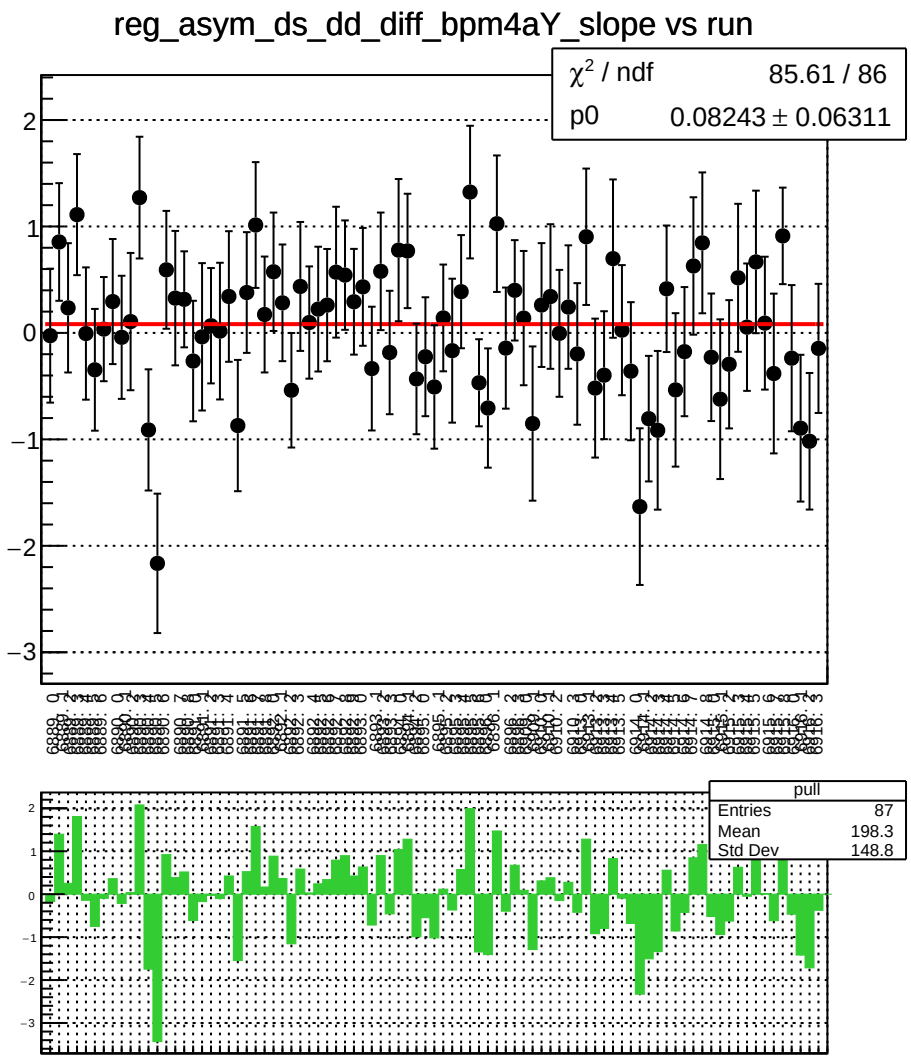

pull1D
Entries 87
Mean 0.005365
Std Dev 1.062

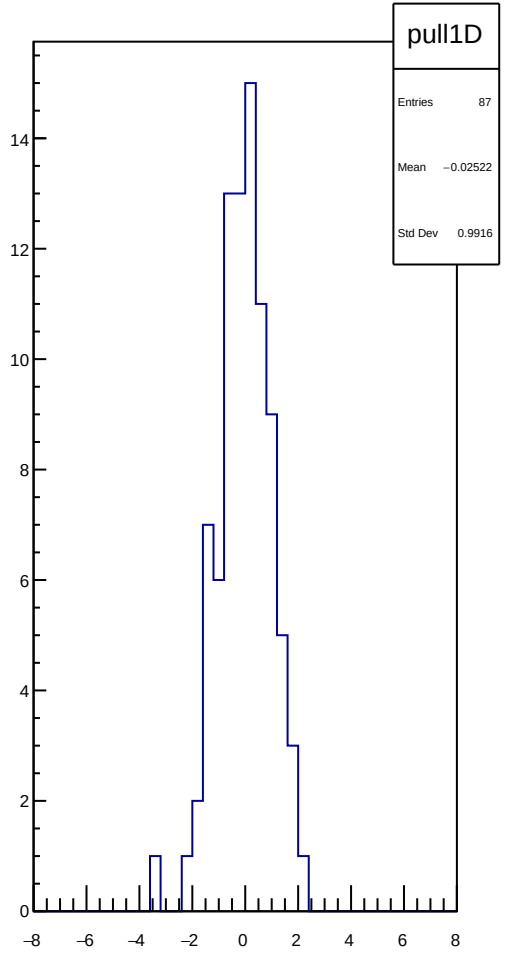

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 83 / 86
p0 0.00275 ± 0.003267
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean −140.2
Std Dev 169.2
2
1
0
−1
−2

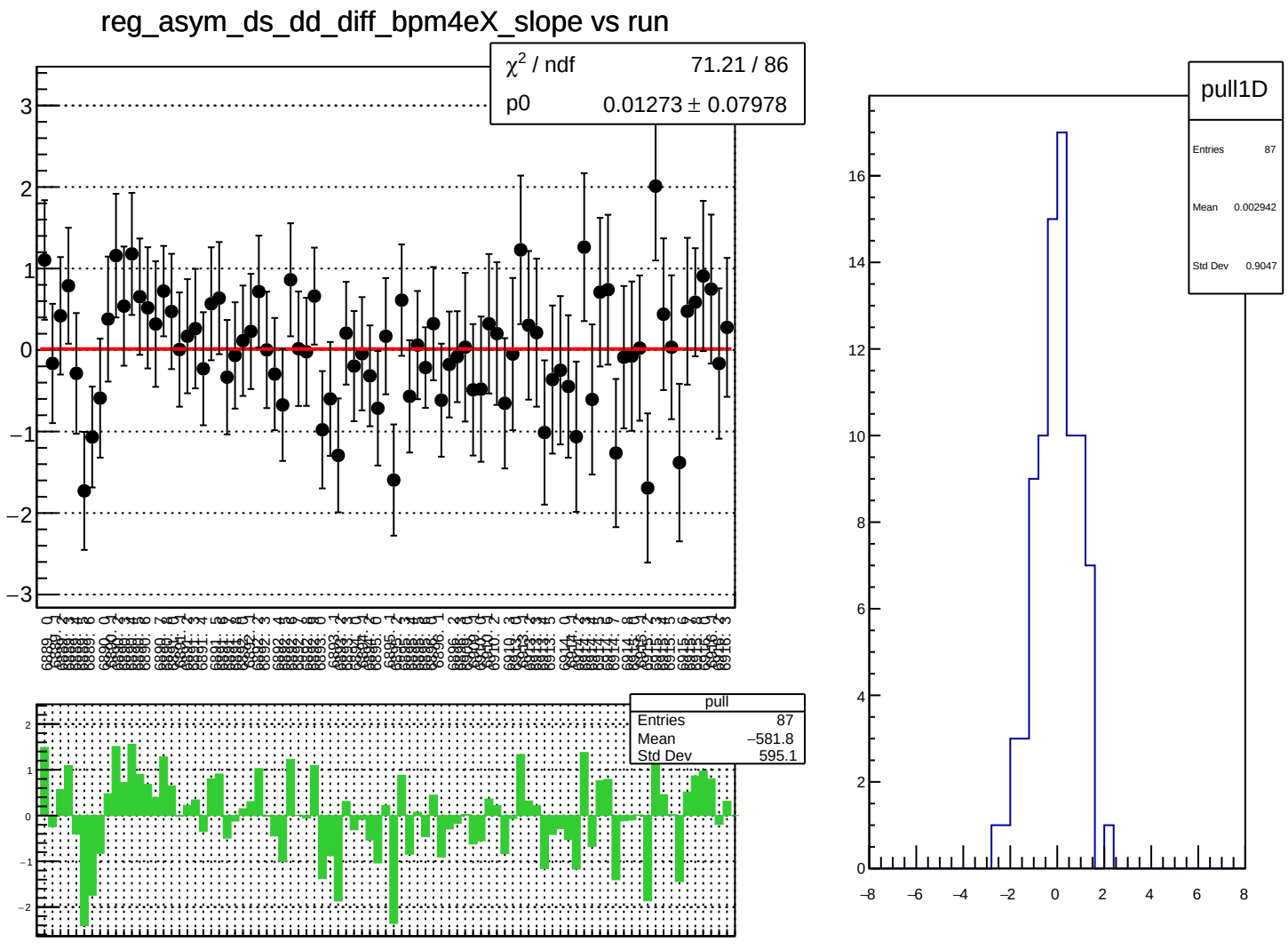

pull1D
Entries 87
Mean 0.01334
Std Dev 0.9766
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

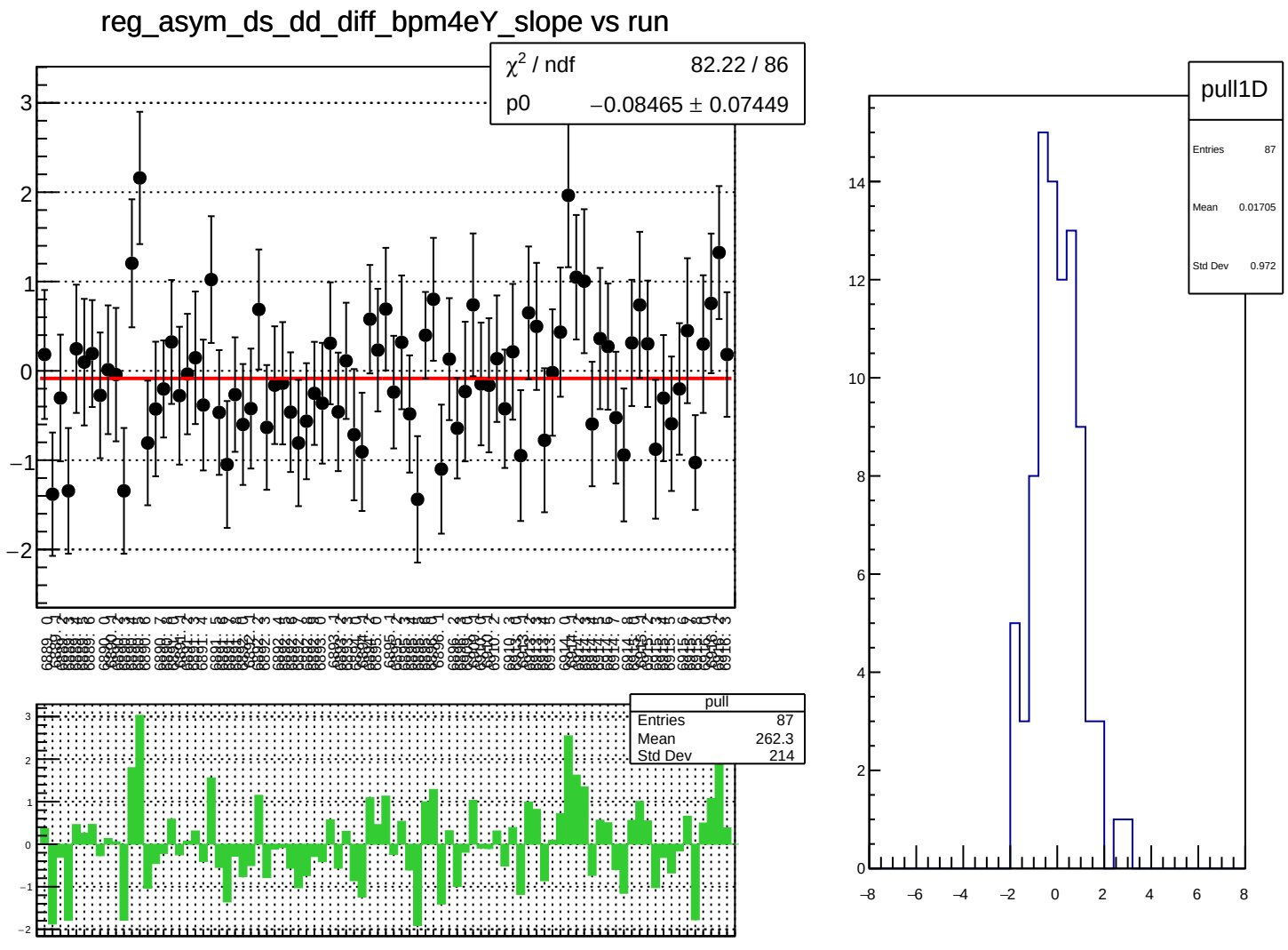

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 72.55 / 86
p0 −0.005222 ± 0.08328
pull
Entries 87
Mean −193.3
Std Dev 187.7

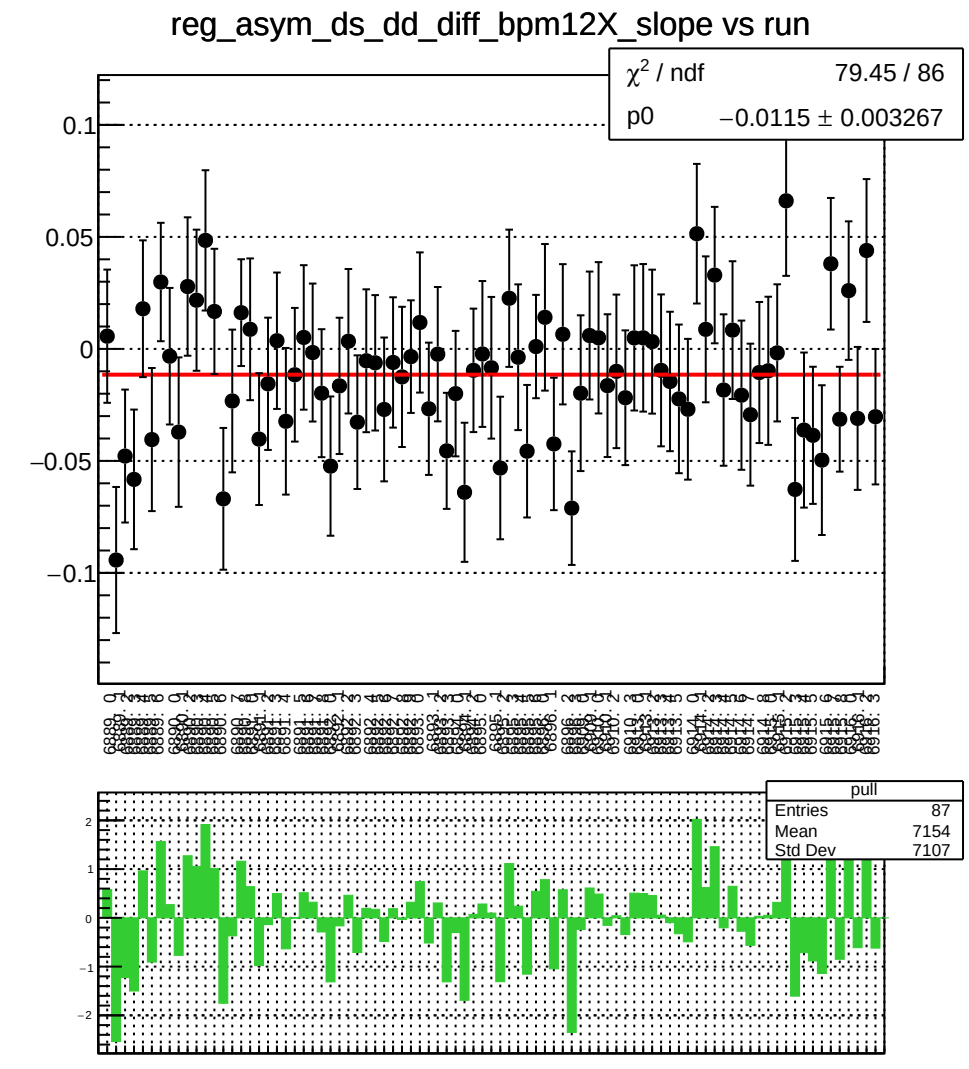

pull1D
Entries 87
Mean −0.005206
Std Dev 0.9131

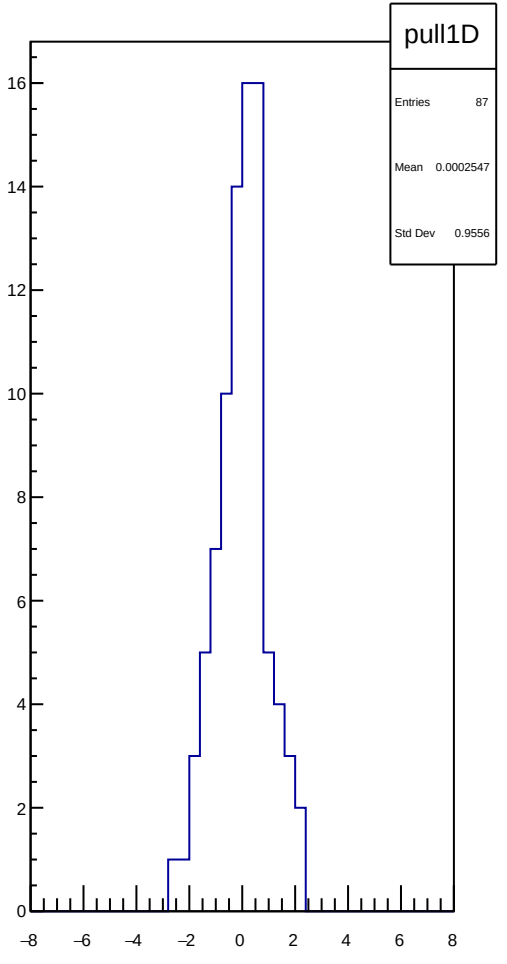

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.61 / 86
p0 0.08243 ± 0.06311
pull
Entries 87
Mean 198.3
Std Dev 148.8

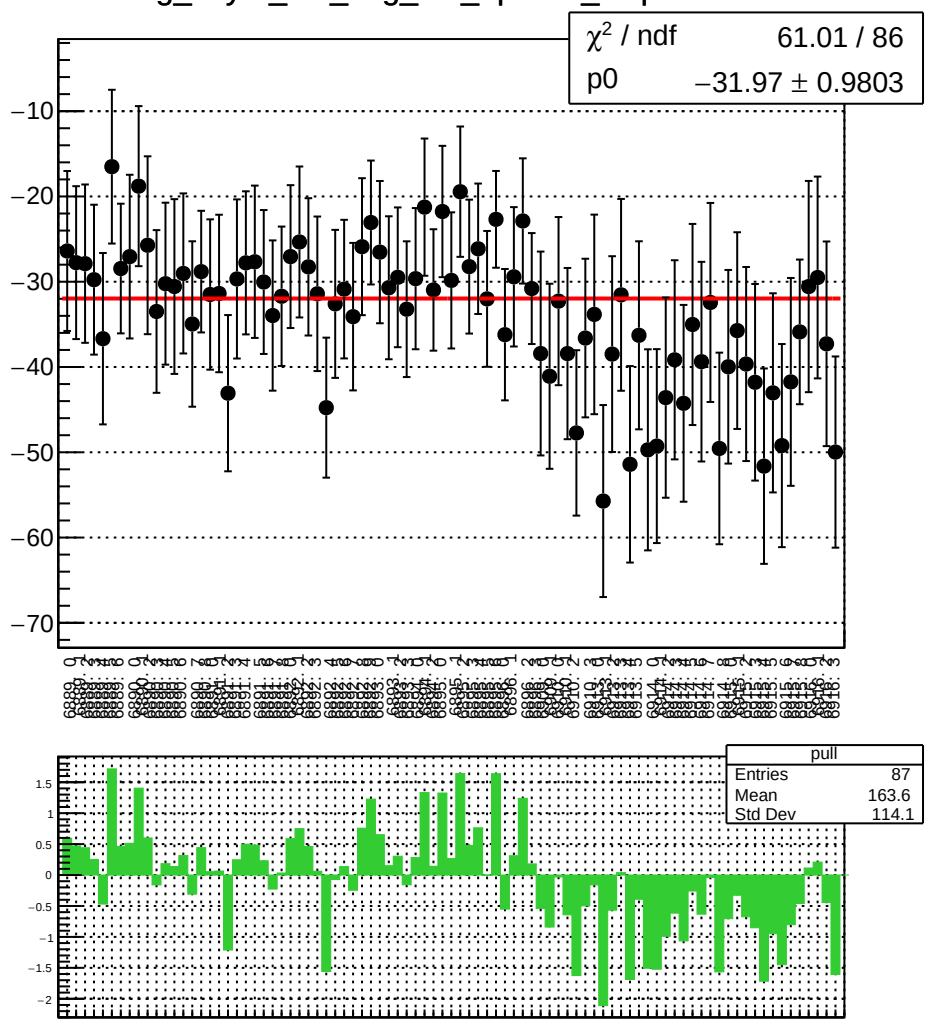

pull1D
Entries 87
Mean −0.02522
Std Dev 0.9916

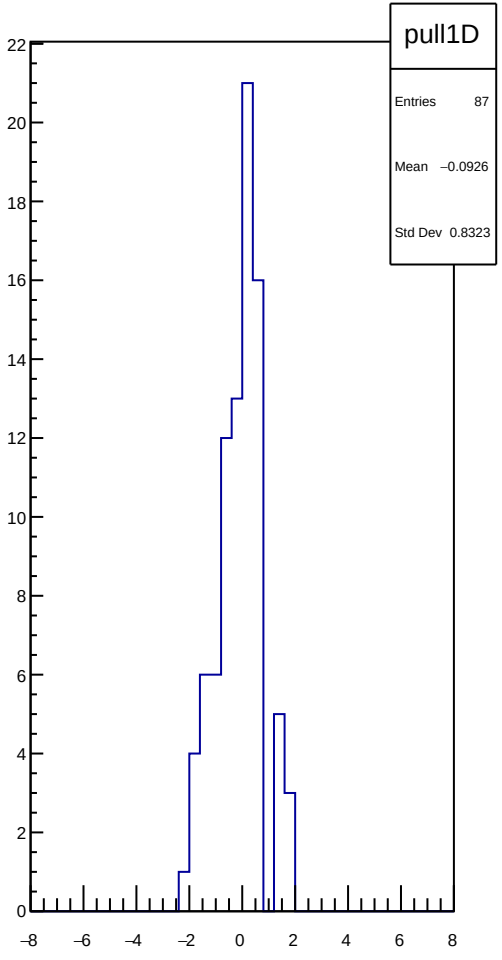

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.21 / 86
p0 0.01273 ± 0.07978
pull
Entries 87
Mean −581.8
Std Dev 595.1
pull1D
Entries 87
Mean 0.002942
Std Dev 0.9047

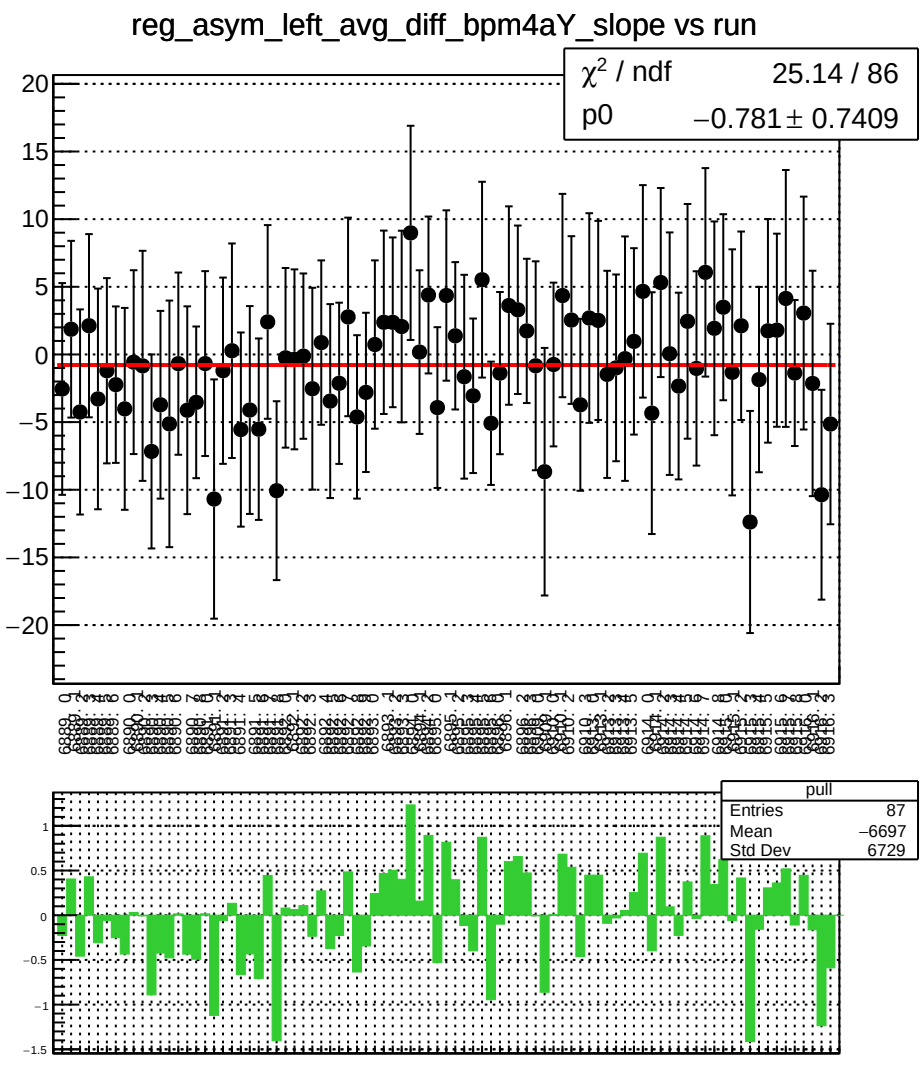

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.22 / 86
p0 −0.08465 ± 0.07449
pull
Entries 87
Mean 262.3
Std Dev 214
pull1D
Entries 87
Mean 0.01705
Std Dev 0.972

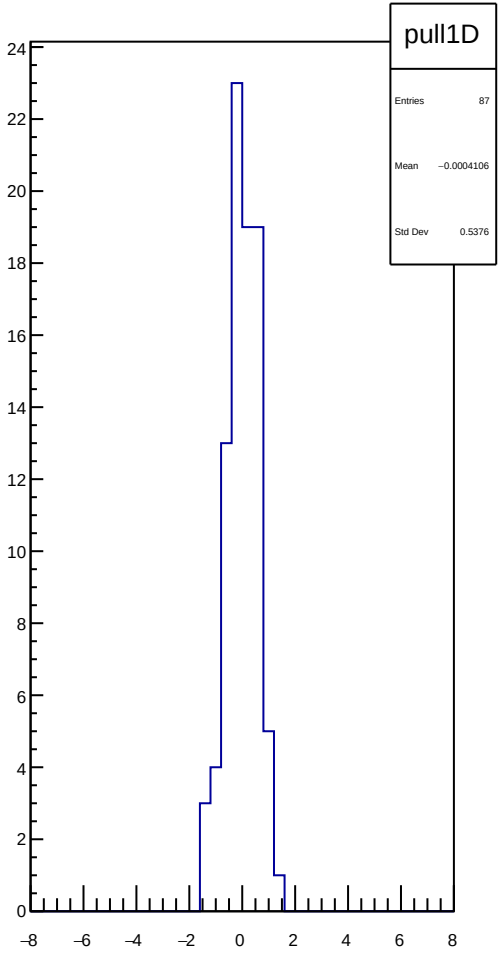

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 79.45 / 86
p0 −0.0115 ± 0.003267
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean 7154
Std Dev 7107
2
1
0
−1
−2

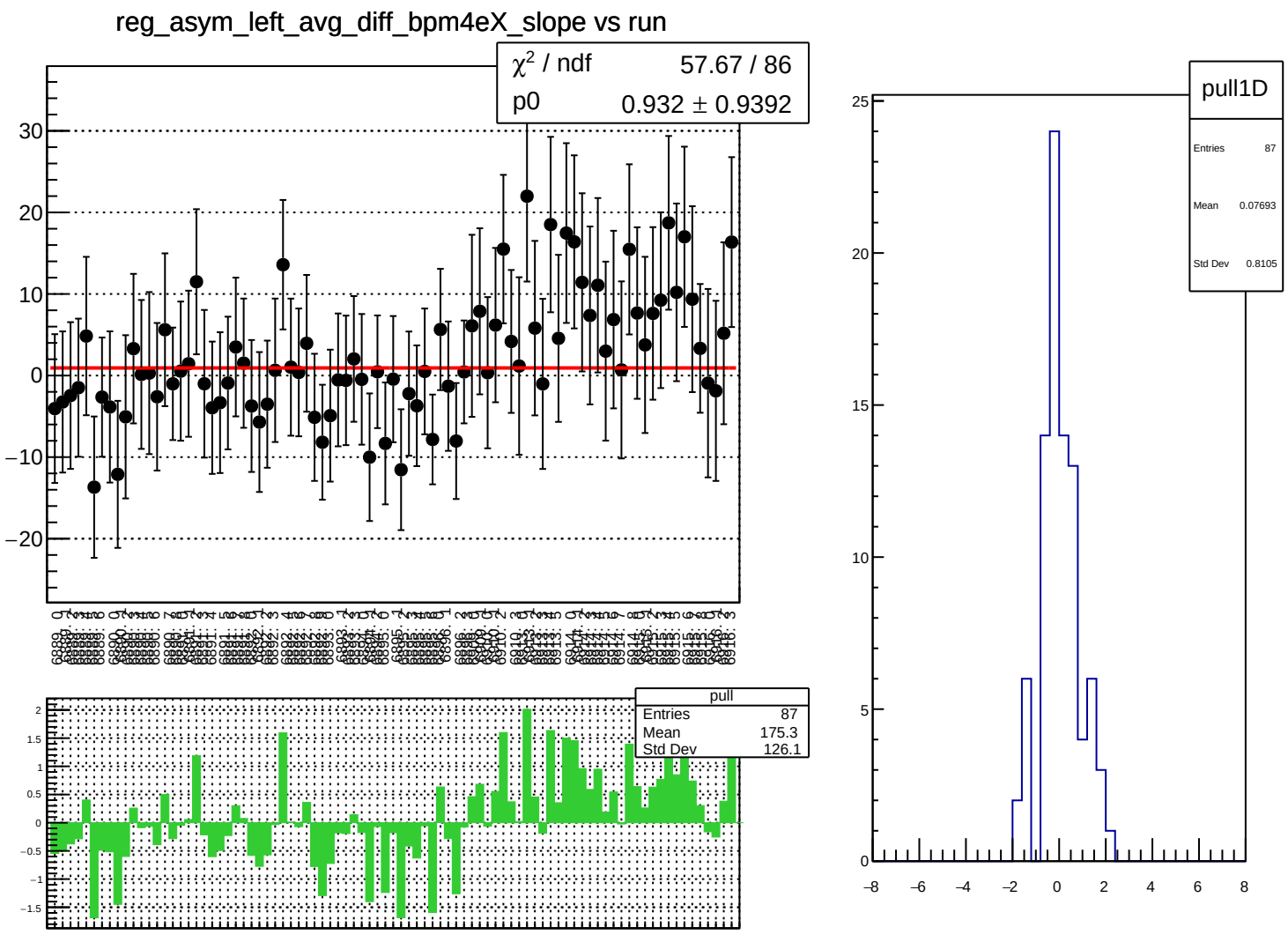

pull1D
Entries 87
Mean 0.0002547
Std Dev 0.9556
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

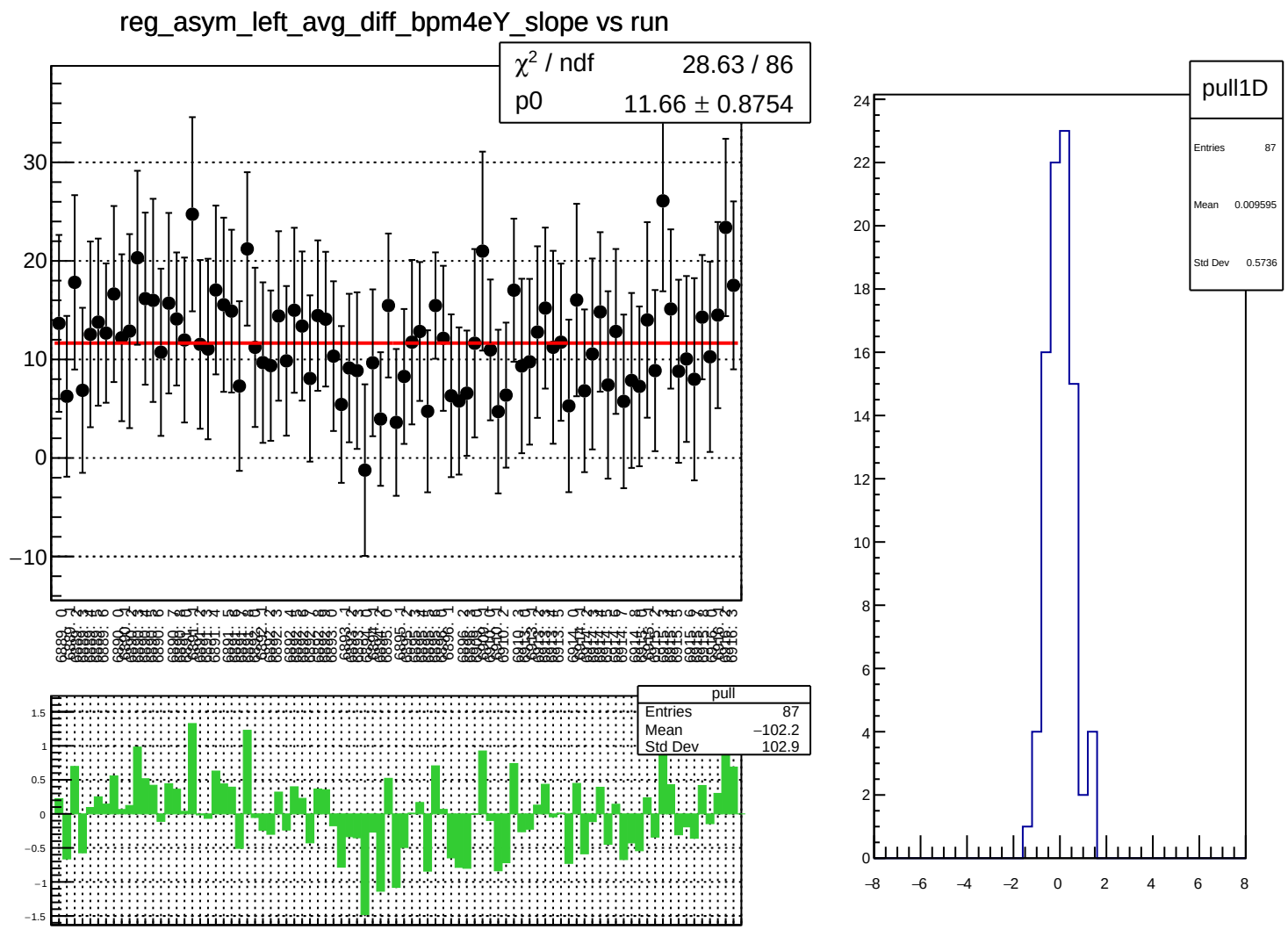

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 61.01 / 86
p0 −31.97 ± 0.9803
pull
Entries 87
Mean 163.6
Std Dev 114.1

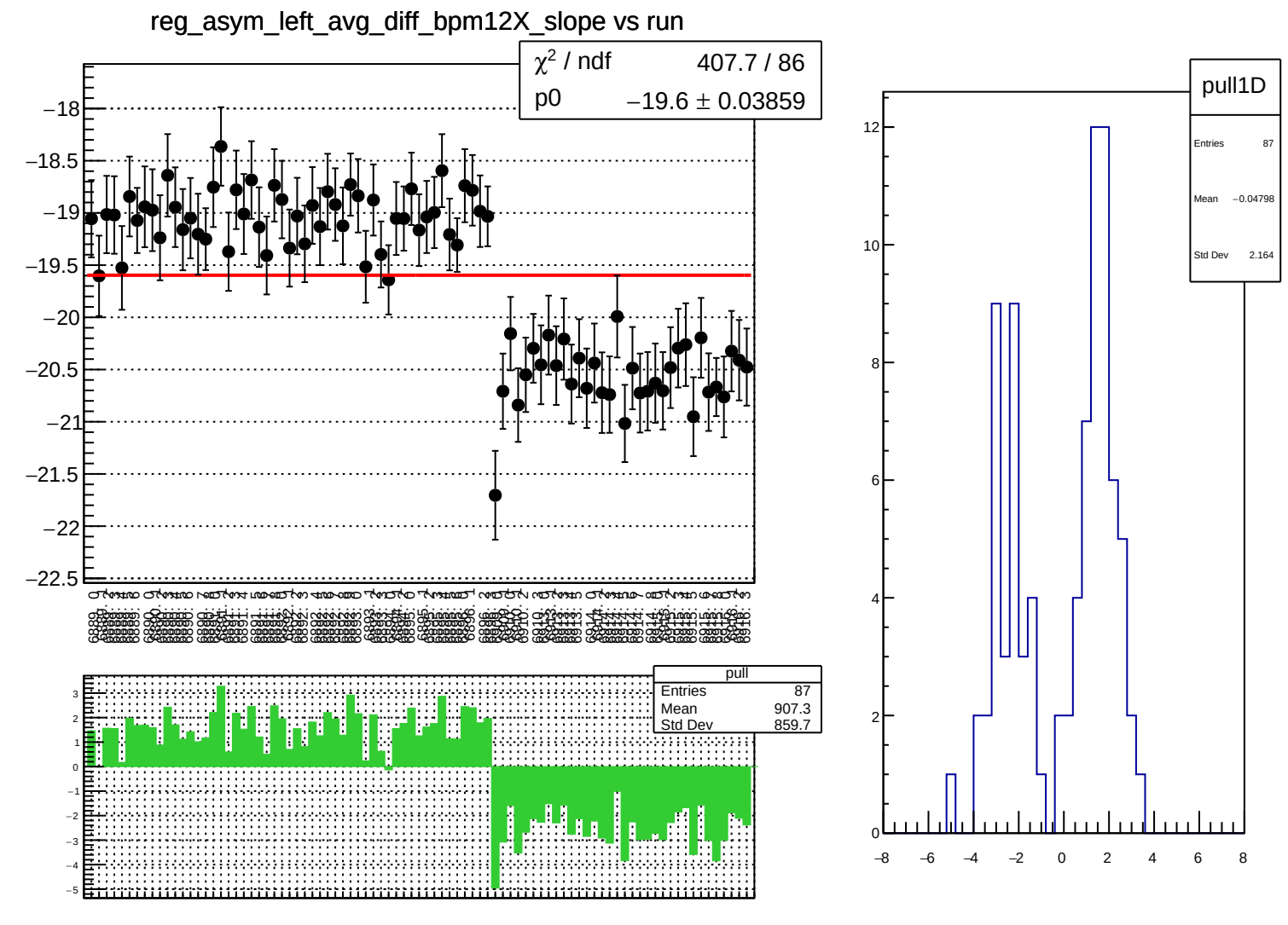

pull1D
Entries 87
Mean −0.0926
Std Dev 0.8323

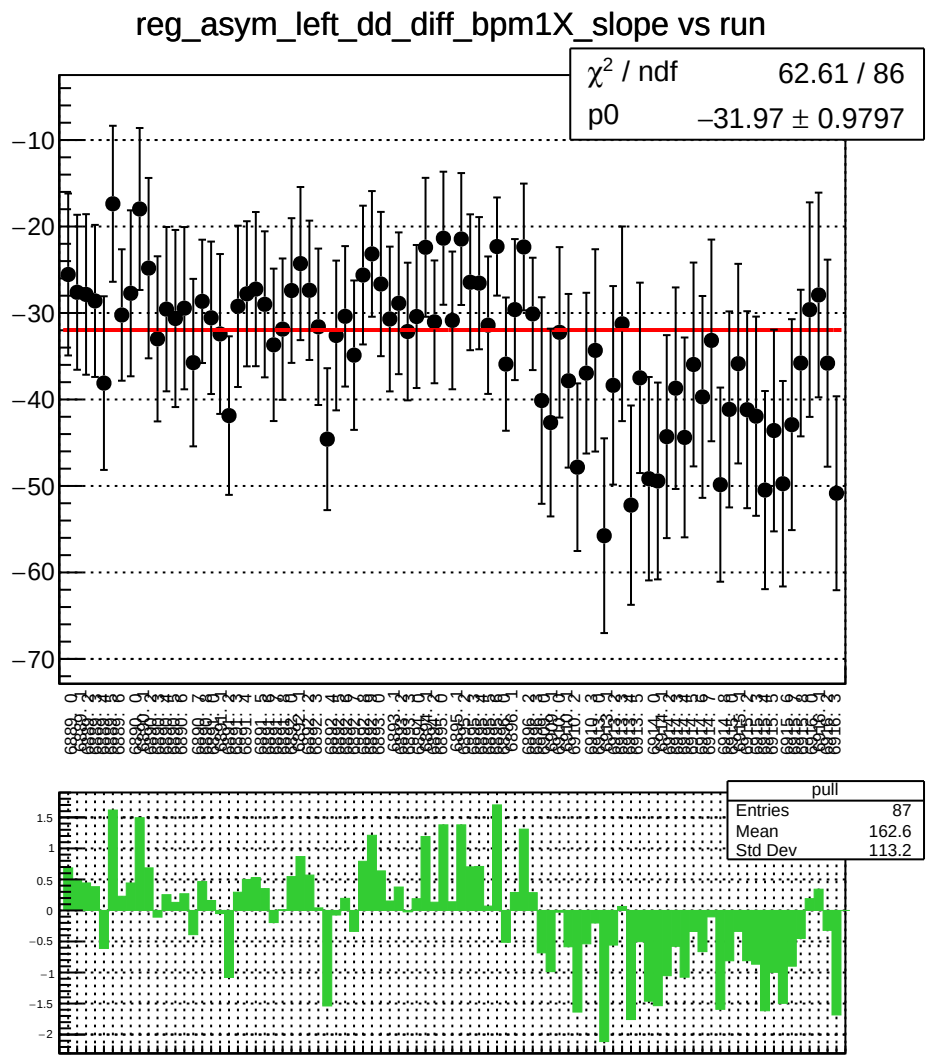

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.14 / 86
p0 −0.781 ± 0.7409
pull
Entries 87
Mean −6697
Std Dev 6729

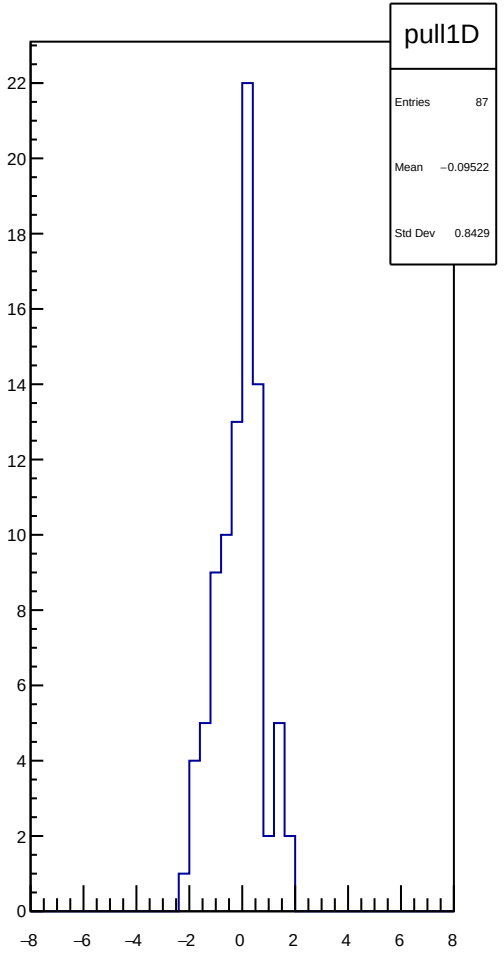

pull1D
Entries 87
Mean −0.0004106
Std Dev 0.5376

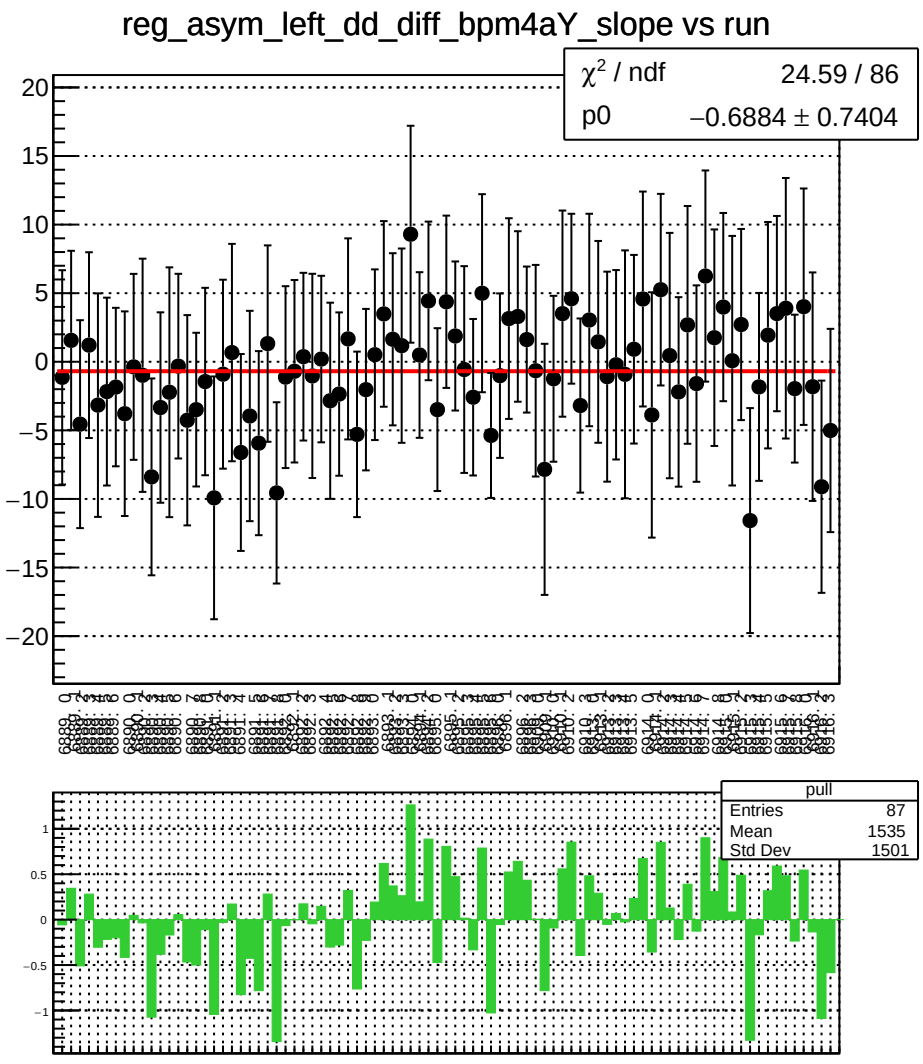

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 57.67 / 86
p0 0.932 ± 0.9392
pull
Entries 87
Mean 175.3
Std Dev 126.1
pull1D
Entries 87
Mean 0.07693
Std Dev 0.8105

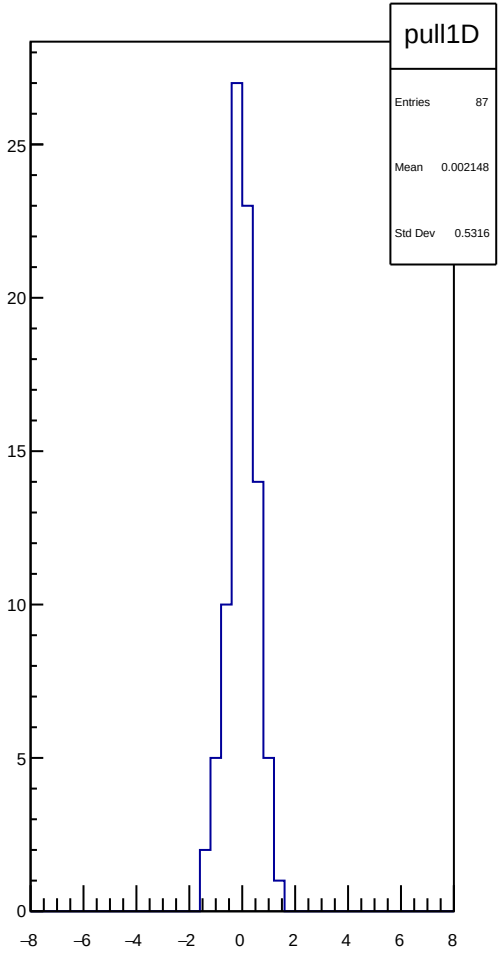

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.63 / 86
p0 11.66 ± 0.8754
pull
Entries 87
Mean −102.2
Std Dev 102.9
pull1D
Entries 87
Mean 0.009595
Std Dev 0.5736

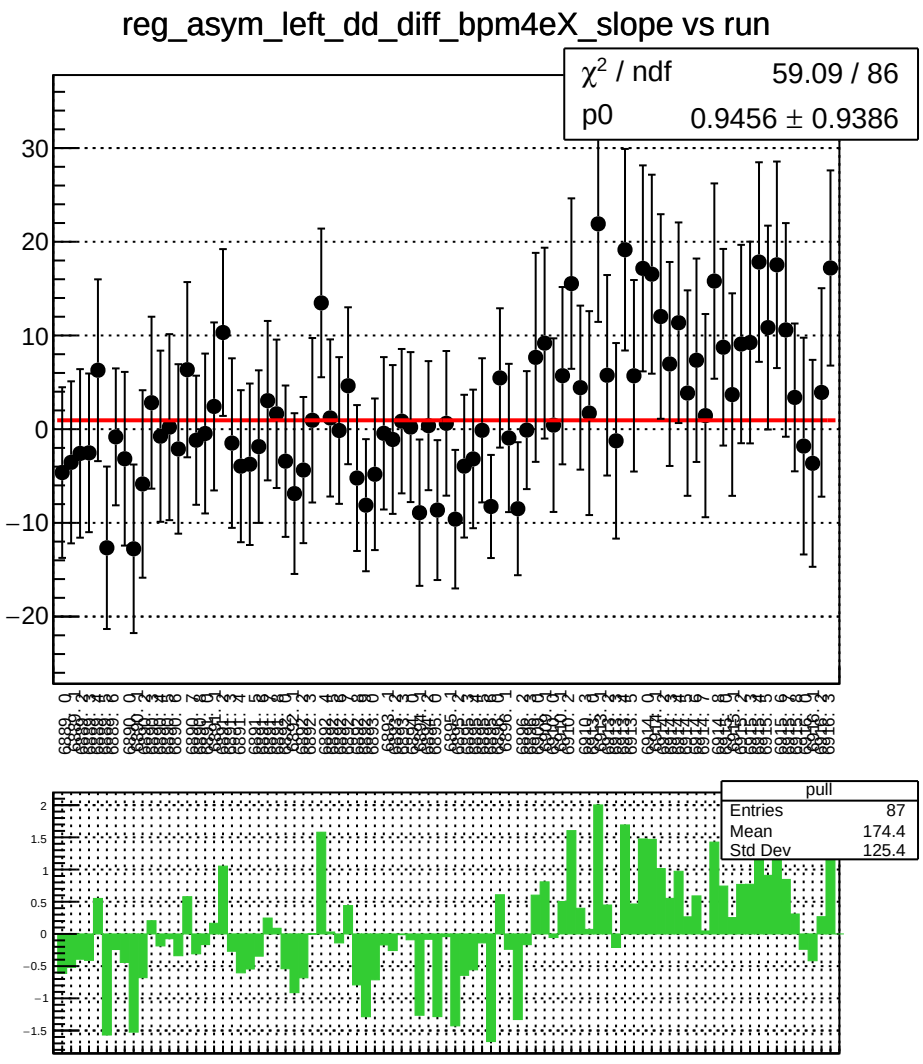

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 407.7 / 86
p0 −19.6 ± 0.03859
−18
−18.5
−19
−19.5
−20
−20.5
−21
−21.5
−22
−22.5
pull
Entries 87
Mean 907.3
Std Dev 859.7
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 87
Mean −0.04798
Std Dev 2.164
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

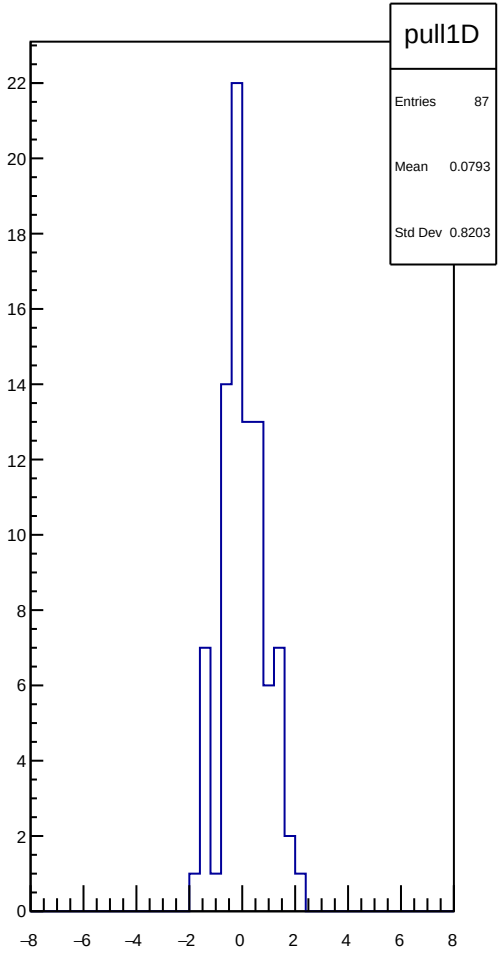

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 62.61 / 86
p0 −31.97 ± 0.9797
pull
Entries 87
Mean 162.6
Std Dev 113.2

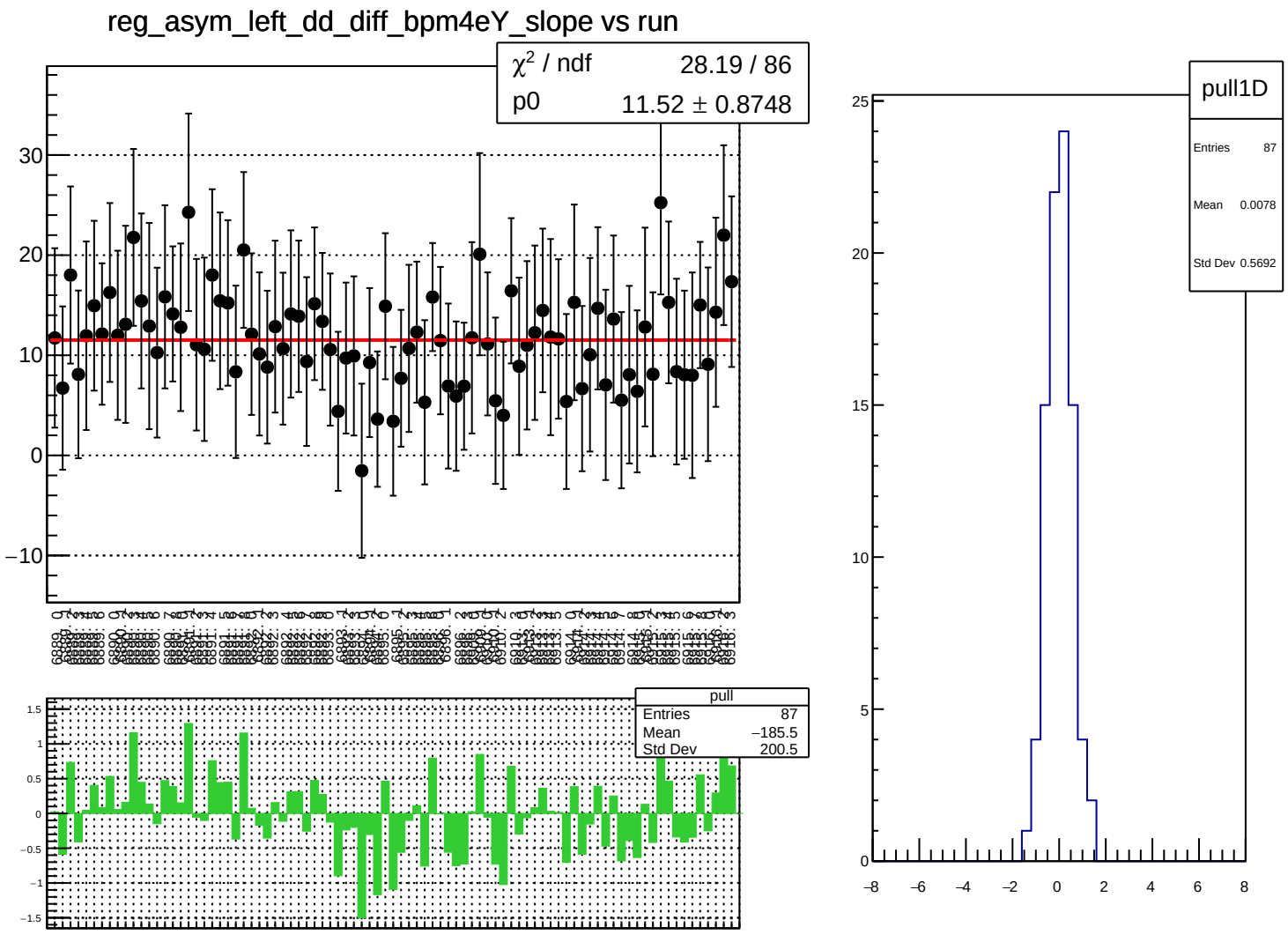

pull1D
Entries 87
Mean −0.09522
Std Dev 0.8429

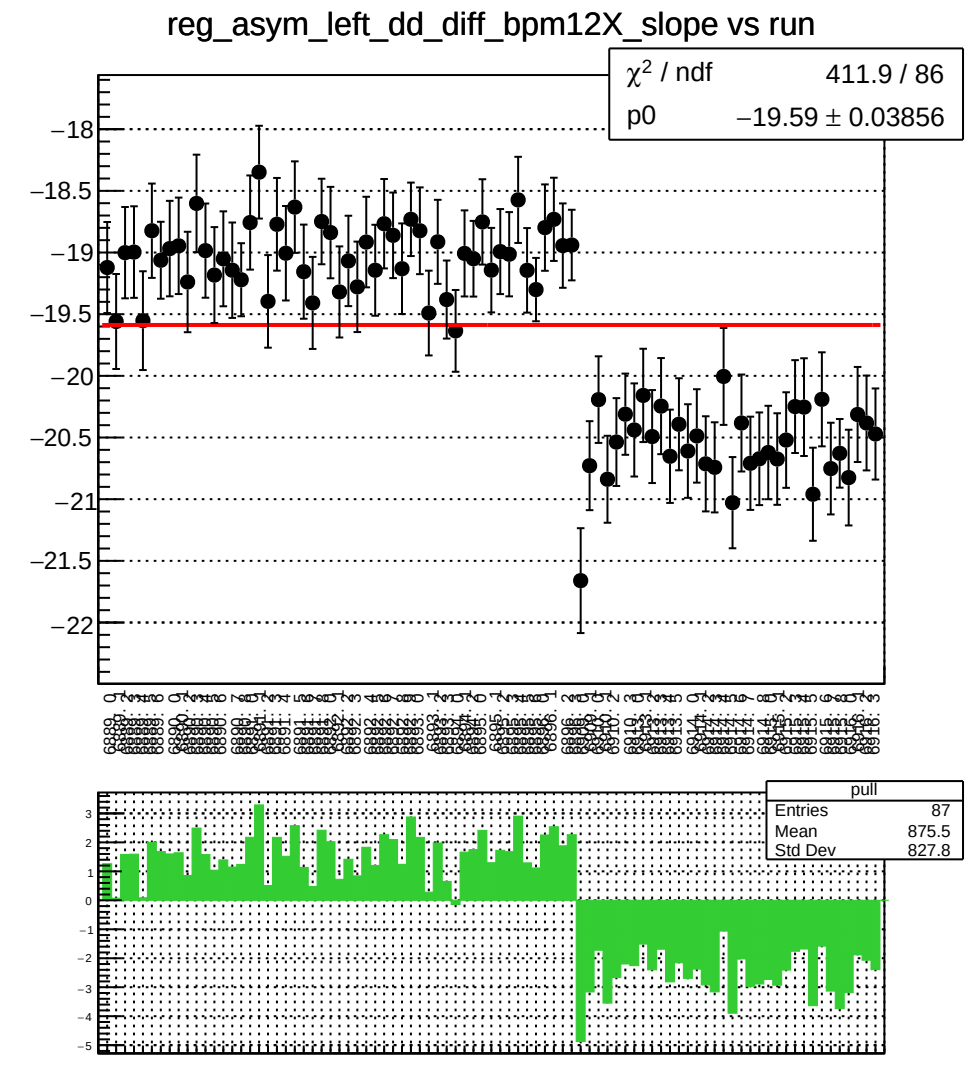

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.59 / 86
p0 −0.6884 ± 0.7404
pull
Entries 87
Mean 1535
Std Dev 1501

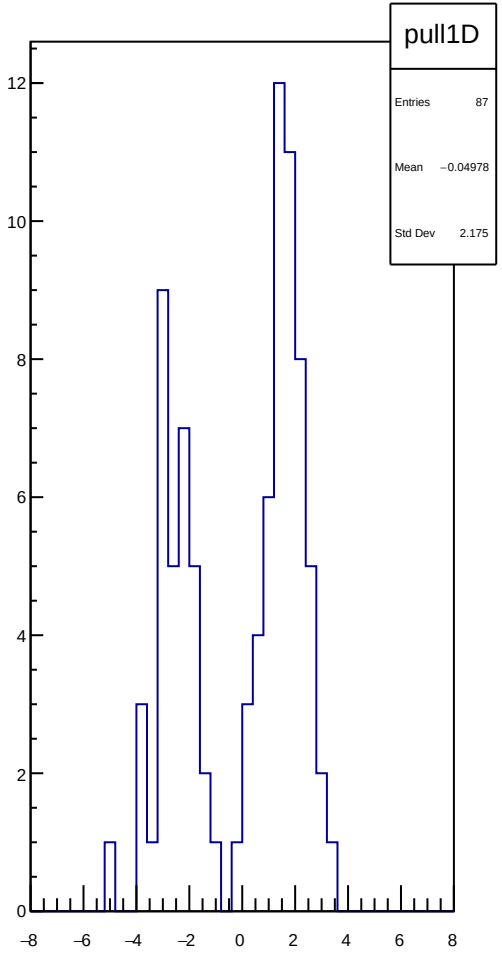

pull1D
Entries 87
Mean 0.002148
Std Dev 0.5316

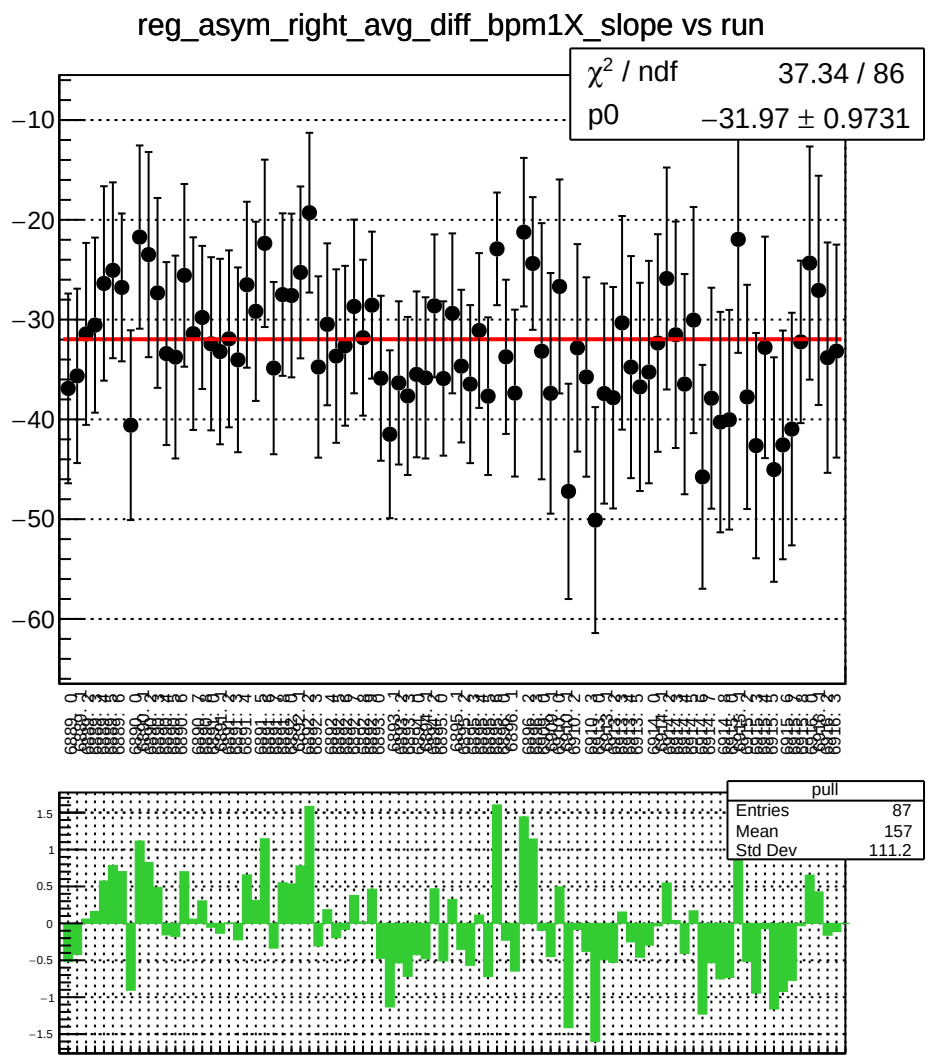

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 59.09 / 86
p0 0.9456 ± 0.9386
pull
Entries 87
Mean 174.4
Std Dev 125.4

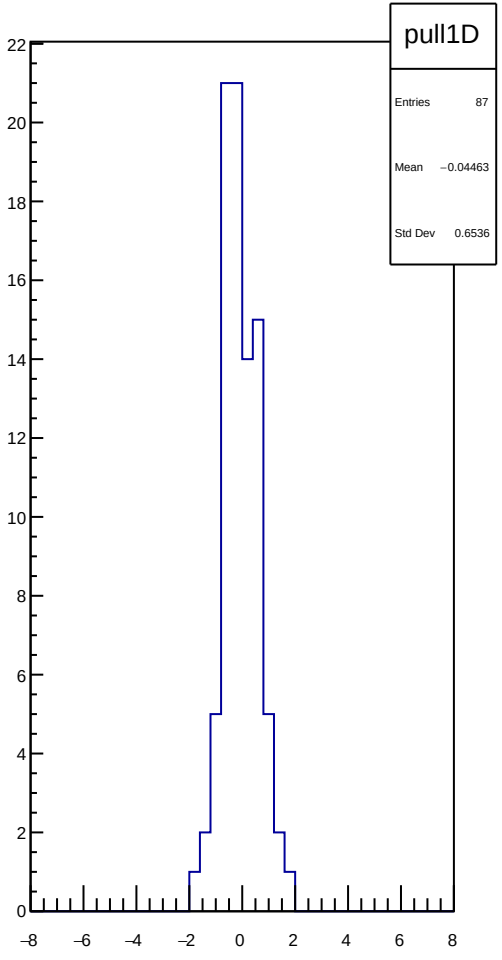

pull1D
Entries 87
Mean 0.0793
Std Dev 0.8203

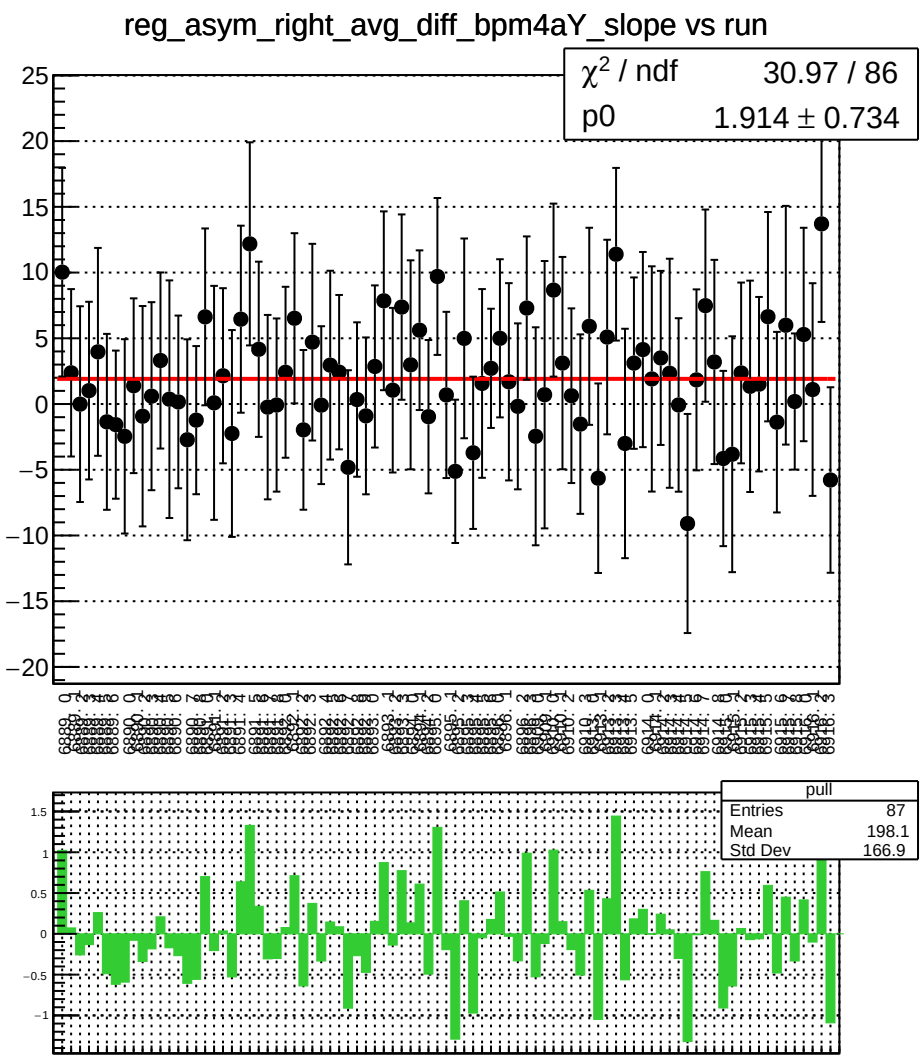

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.19 / 86
p0 11.52 ± 0.8748
pull
Entries 87
Mean −185.5
Std Dev 200.5
pull1D
Entries 87
Mean 0.0078
Std Dev 0.5692

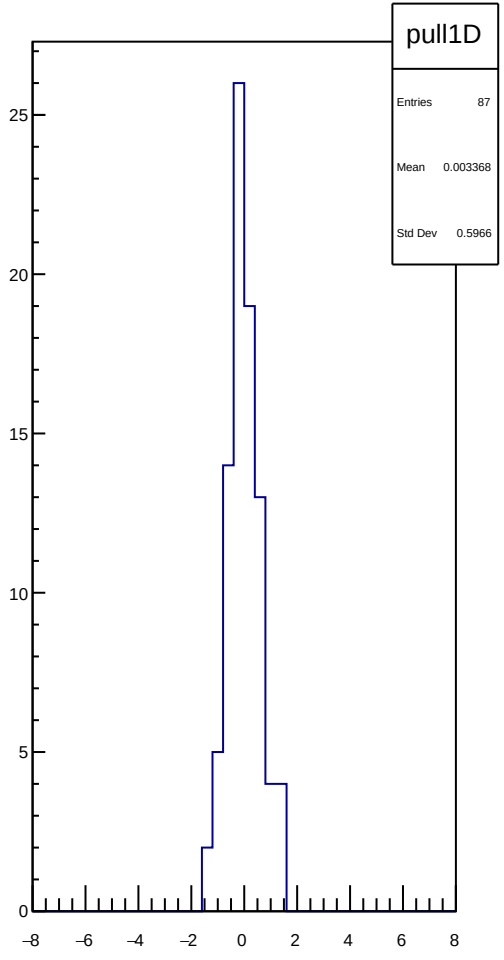

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 411.9 / 86
p0 −19.59 ± 0.03856
pull
Entries 87
Mean 875.5
Std Dev 827.8

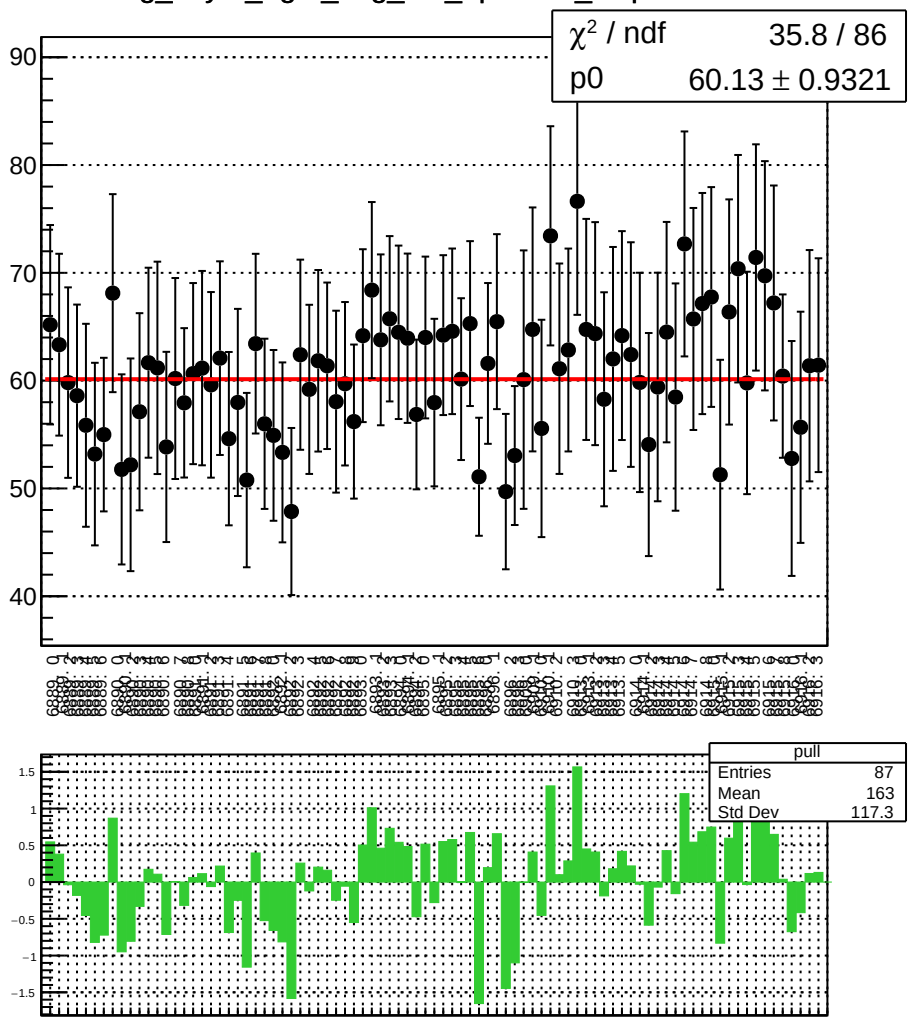

pull1D
Entries 87
Mean −0.04978
Std Dev 2.175

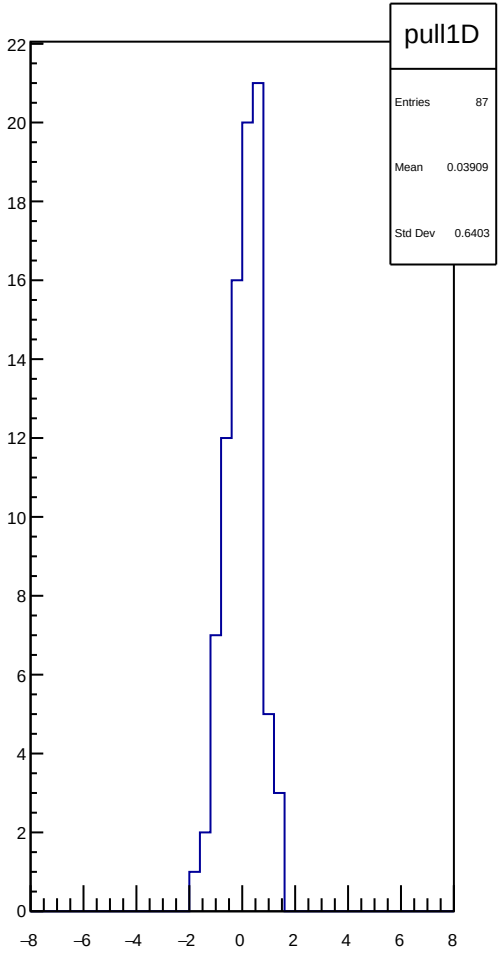

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 37.34 / 86
p0 −31.97 ± 0.9731
pull
Entries 87
Mean 157
Std Dev 111.2

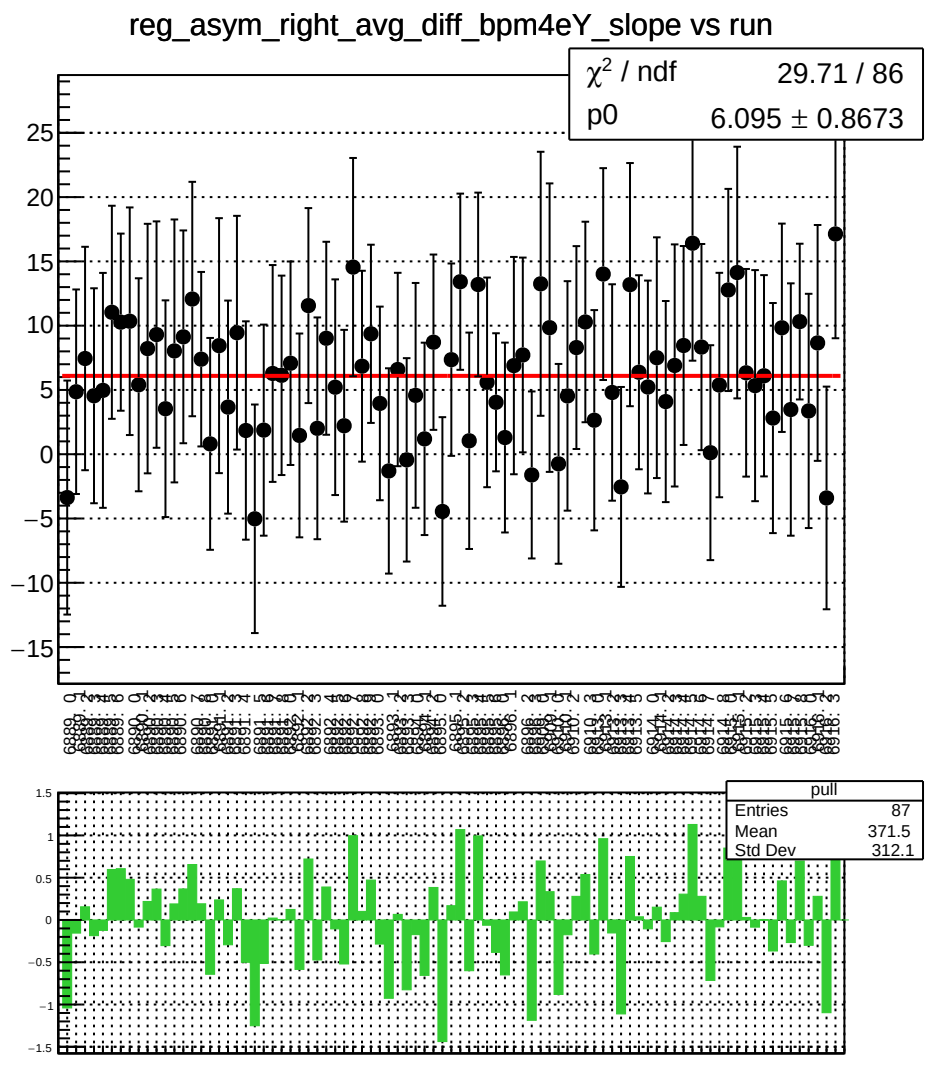

pull1D
Entries 87
Mean −0.04463
Std Dev 0.6536

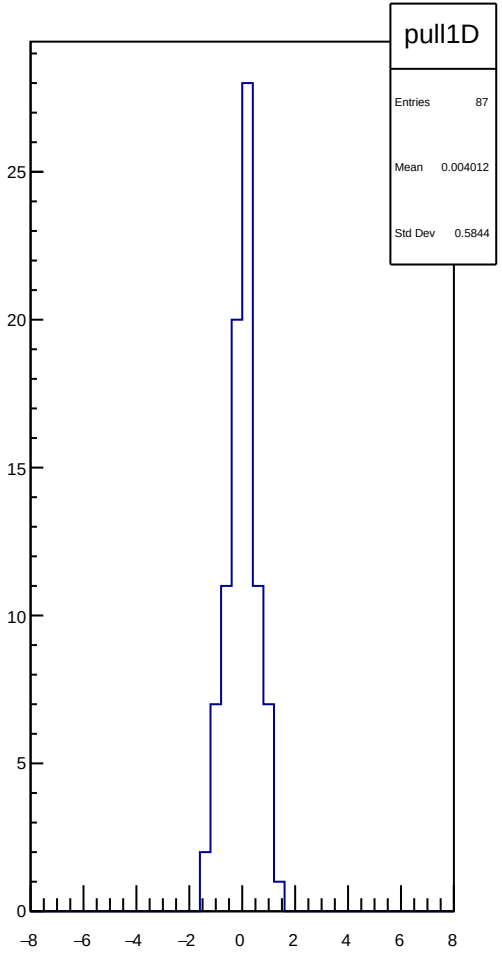

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.97 / 86
p0 1.914 ± 0.734
pull
Entries 87
Mean 198.1
Std Dev 166.9

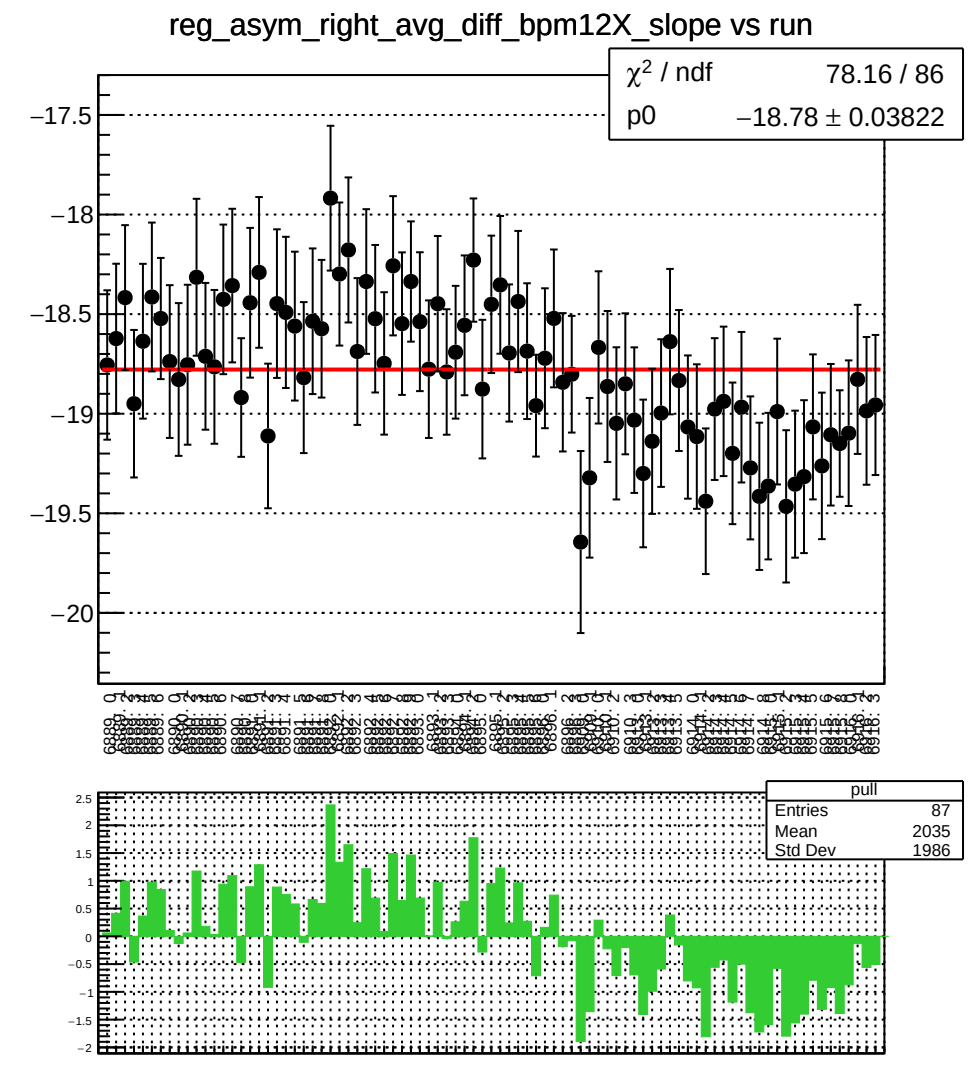

pull1D
Entries 87
Mean 0.003368
Std Dev 0.5966

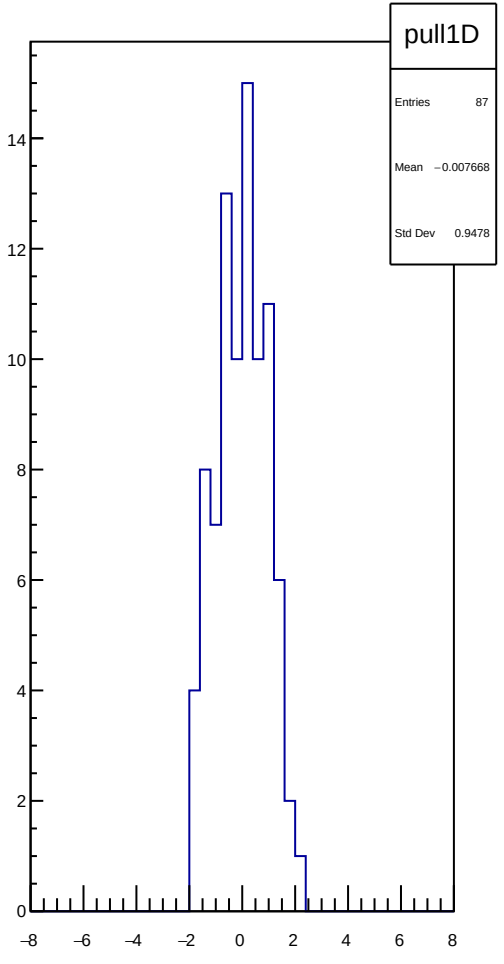

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.8 / 86
p0 60.13 ± 0.9321
pull
Entries 87
Mean 163
Std Dev 117.3

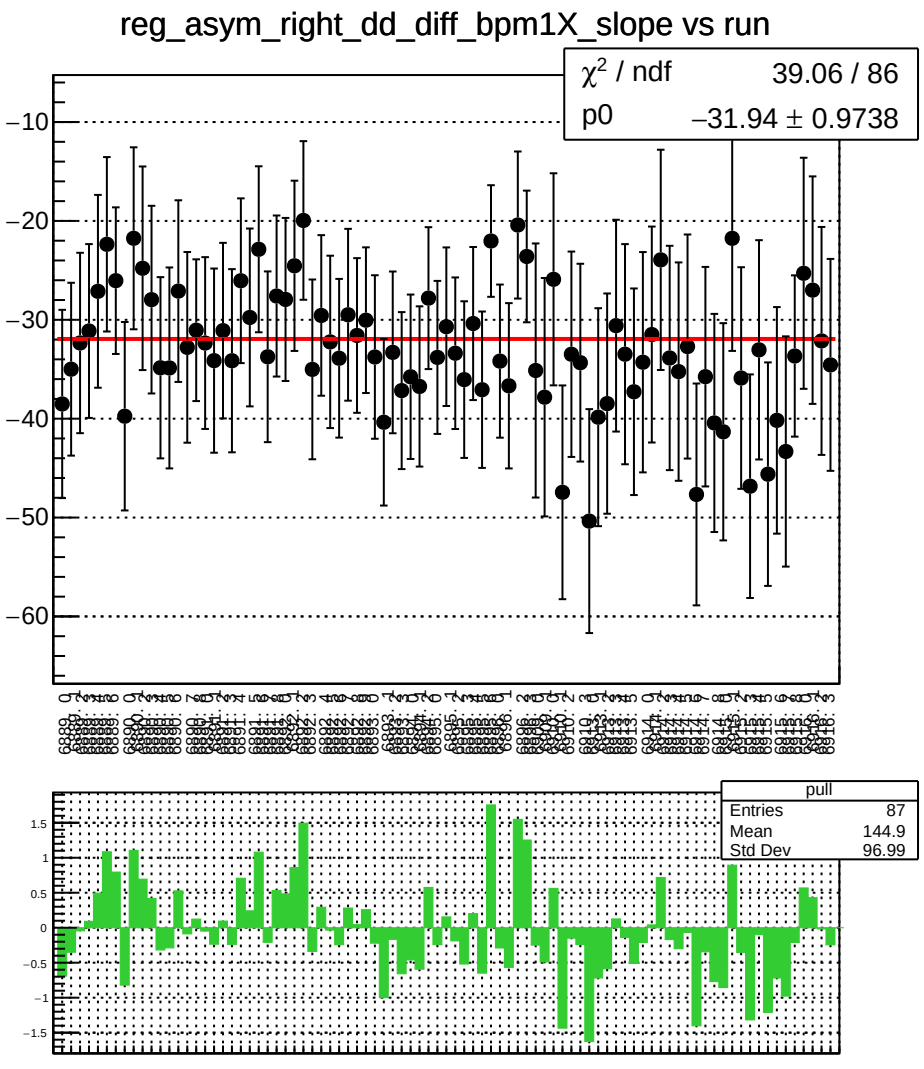

pull1D
Entries 87
Mean 0.03909
Std Dev 0.6403

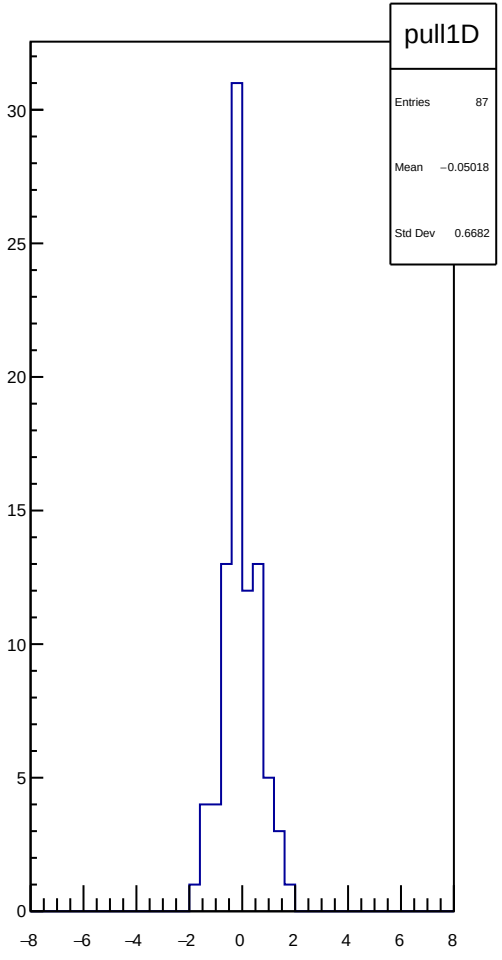

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.71 / 86
p0 6.095 ± 0.8673
pull
Entries 87
Mean 371.5
Std Dev 312.1

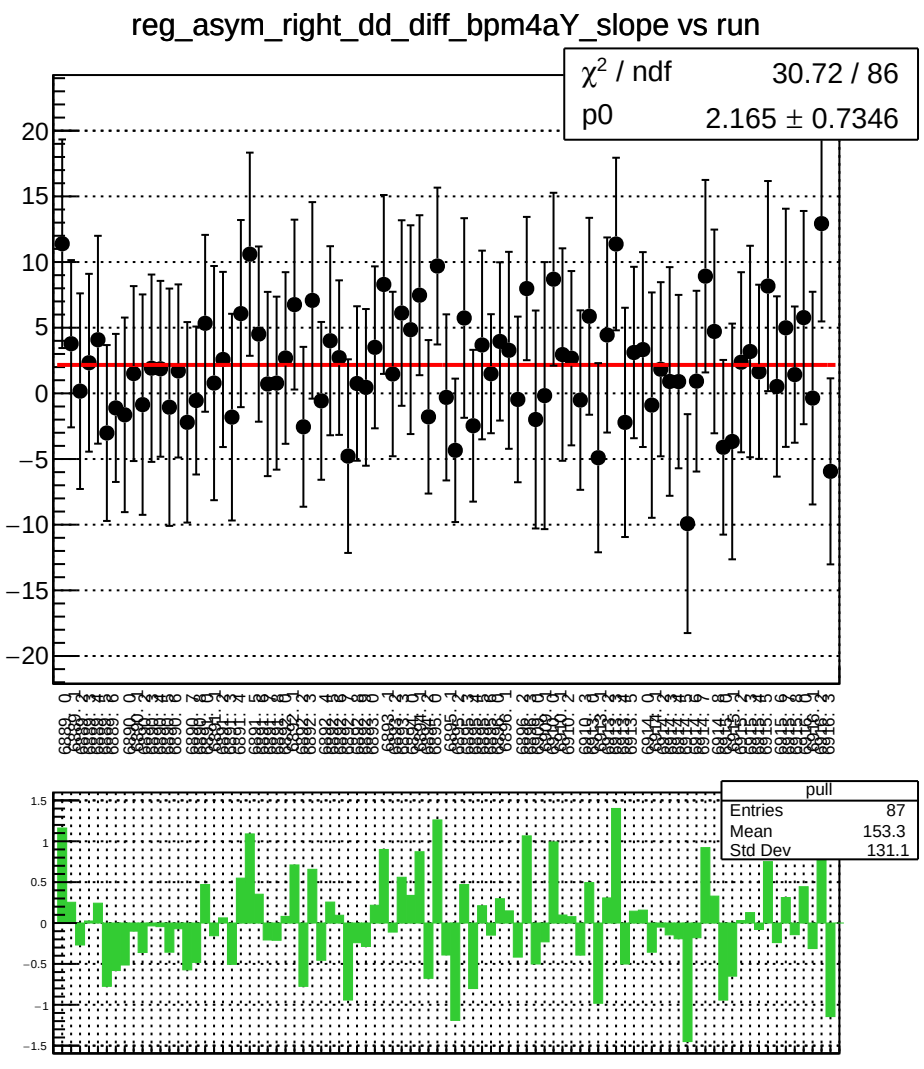

pull1D
Entries 87
Mean 0.004012
Std Dev 0.5844

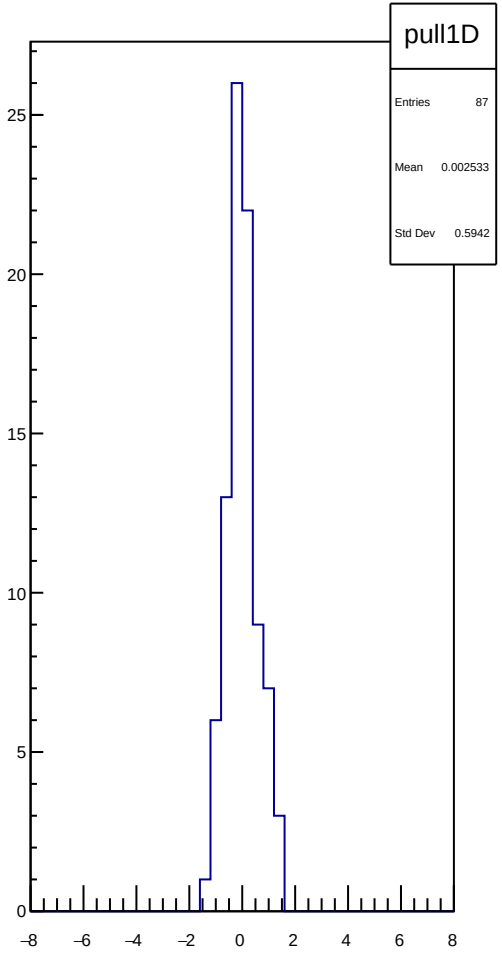

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 78.16 / 86
p0 −18.78 ± 0.03822
−17.5
−18
−18.5
−19
−19.5
−20
pull
Entries 87
Mean 2035
Std Dev 1986
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

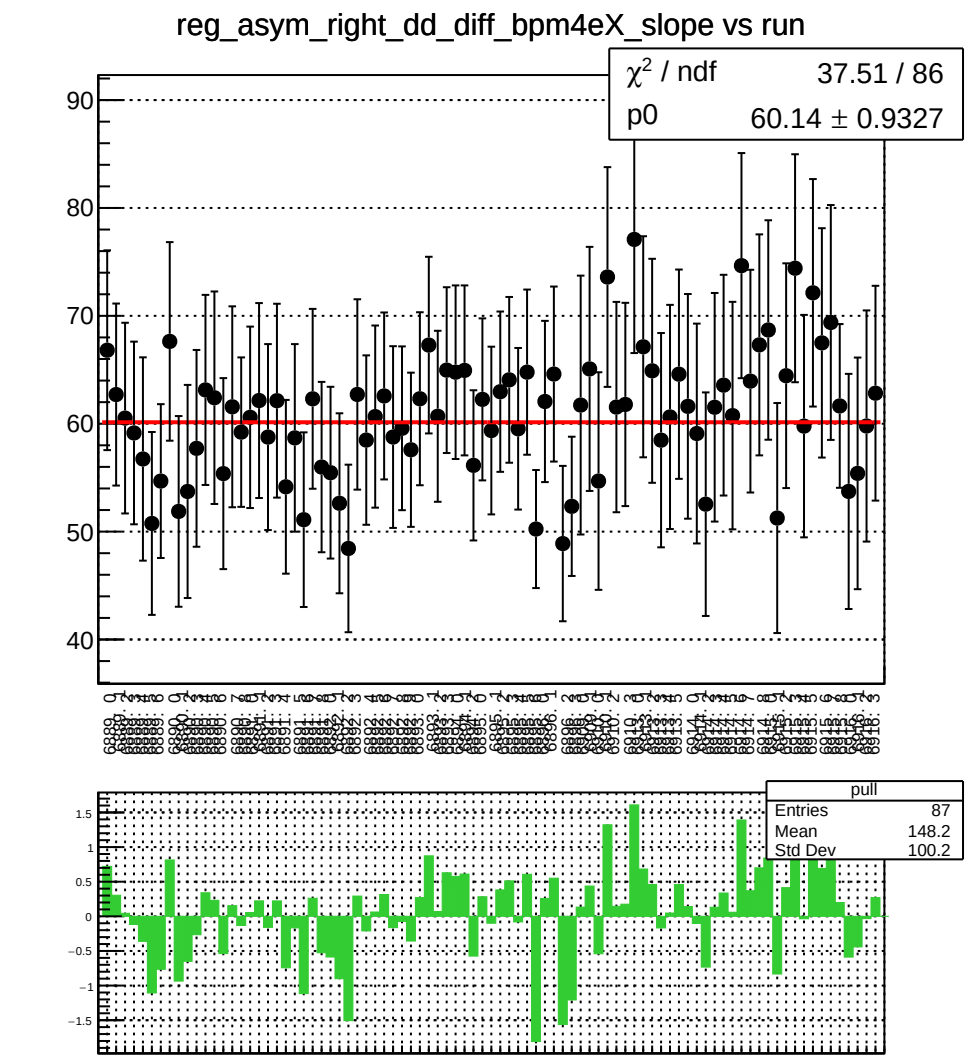

pull1D
Entries 87
Mean −0.007668
Std Dev 0.9478
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

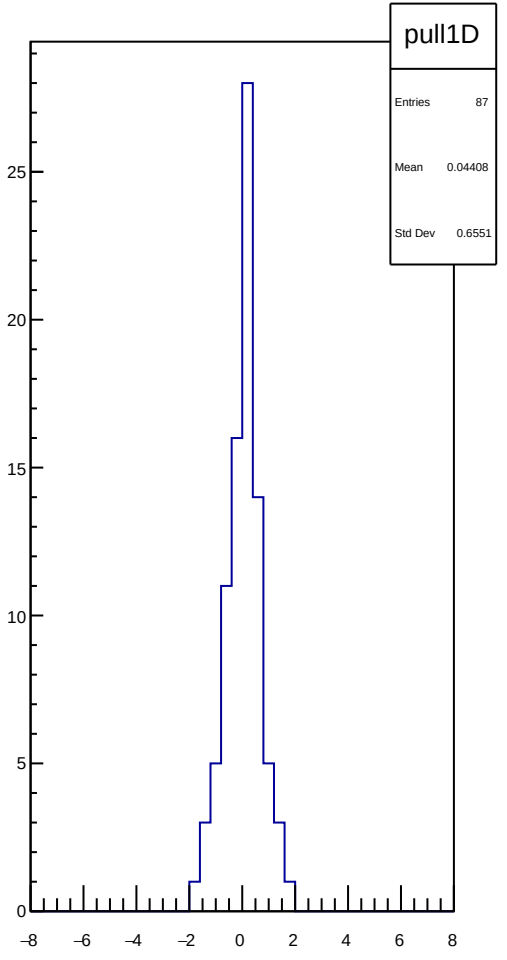

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 39.06 / 86
p0 −31.94 ± 0.9738
pull
Entries 87
Mean 144.9
Std Dev 96.99

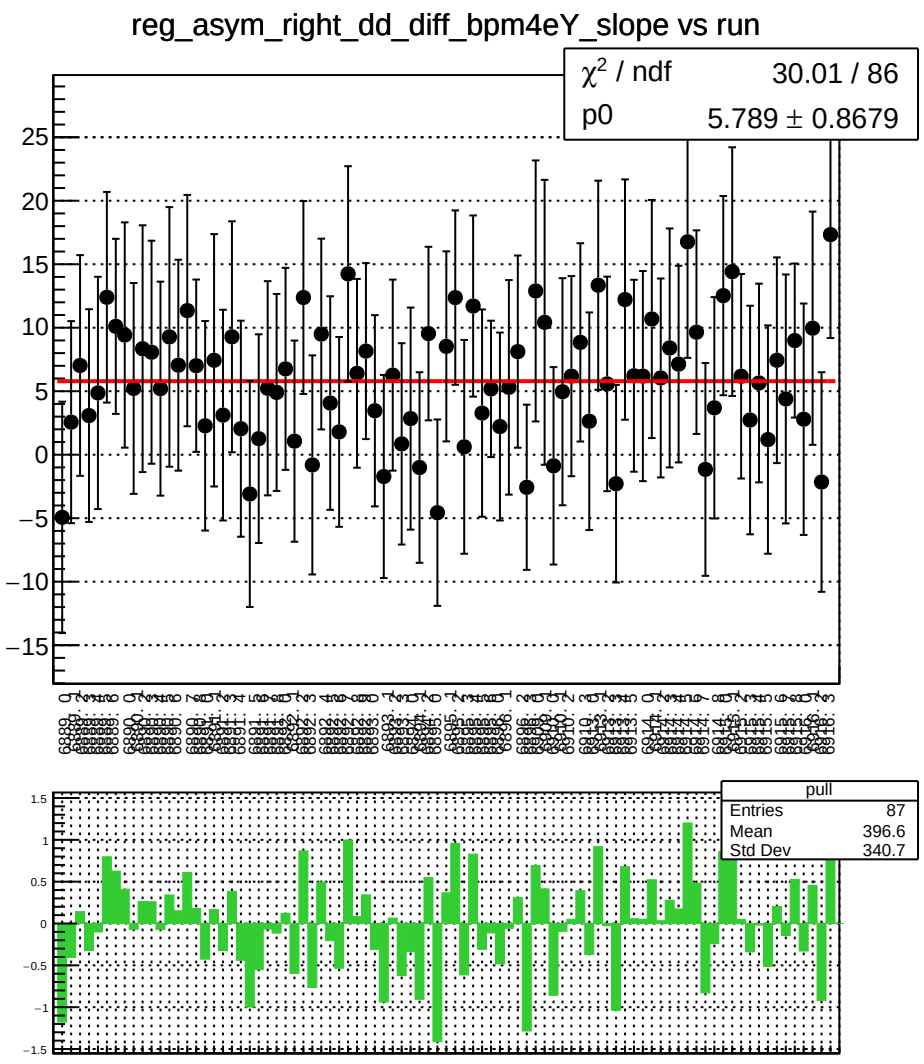

pull1D
Entries 87
Mean −0.05018
Std Dev 0.6682

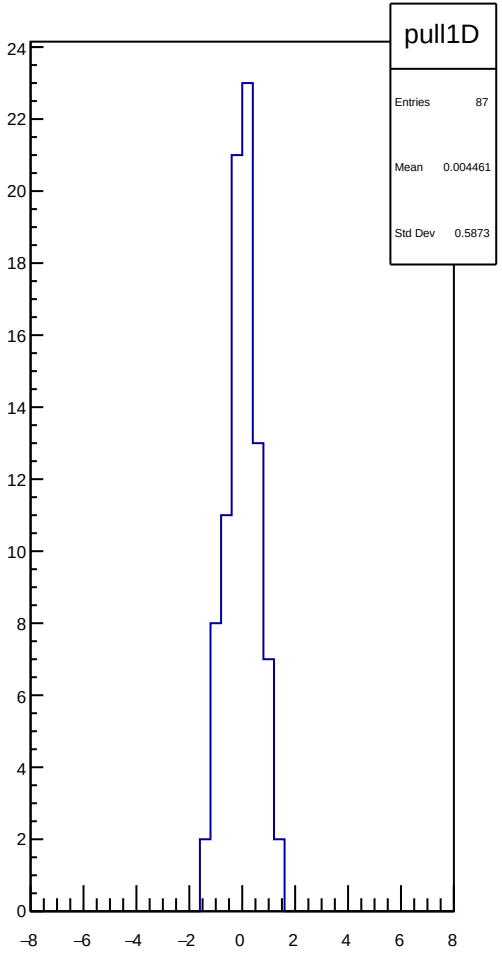

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.72 / 86
p0 2.165 ± 0.7346
pull
Entries 87
Mean 153.3
Std Dev 131.1

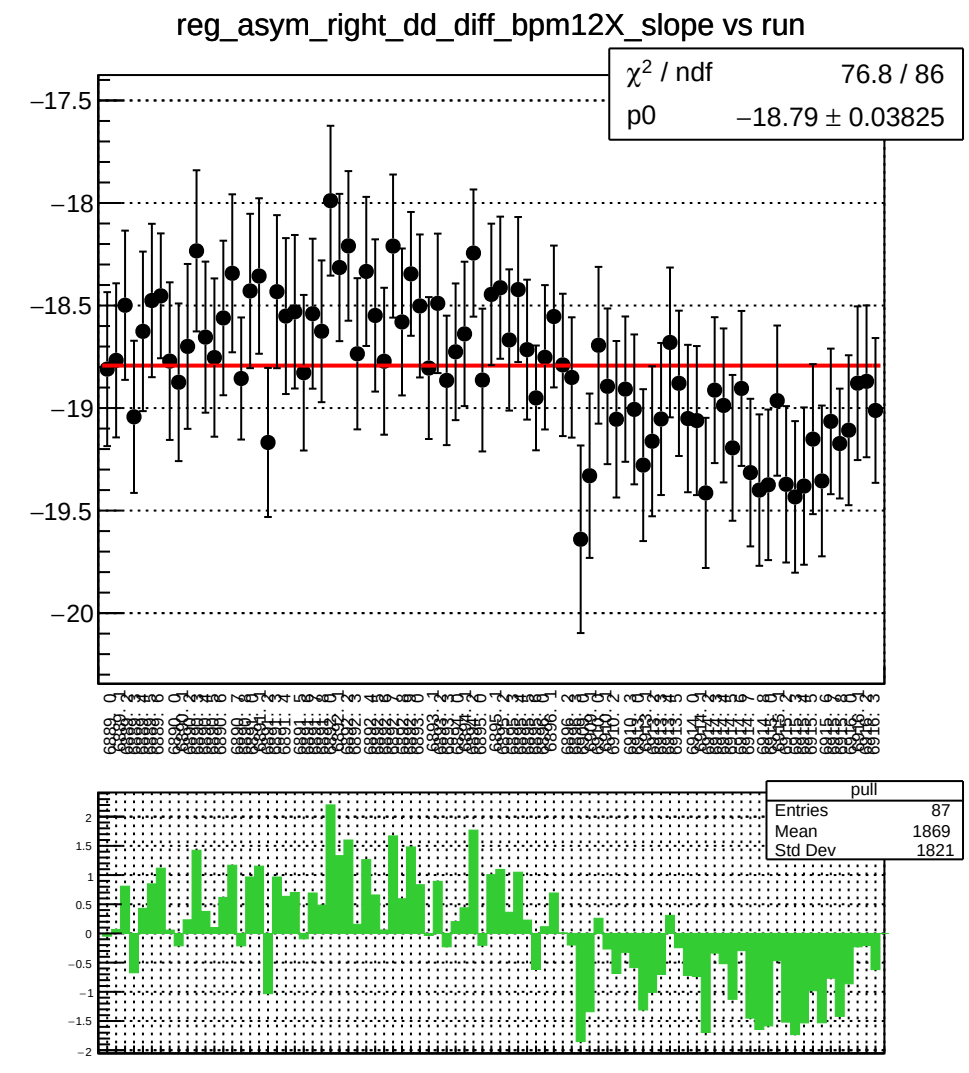

pull1D
Entries 87
Mean 0.002533
Std Dev 0.5942

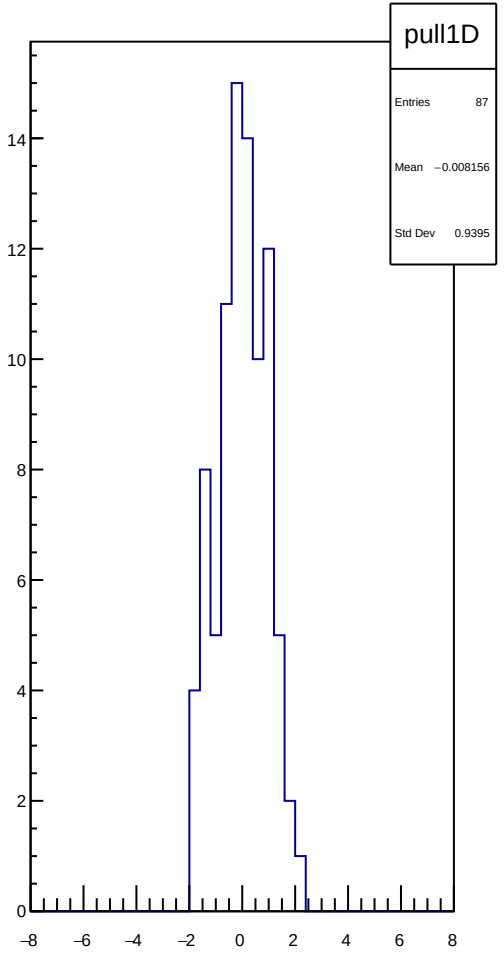

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.51 / 86
p0 60.14 ± 0.9327
pull
Entries 87
Mean 148.2
Std Dev 100.2

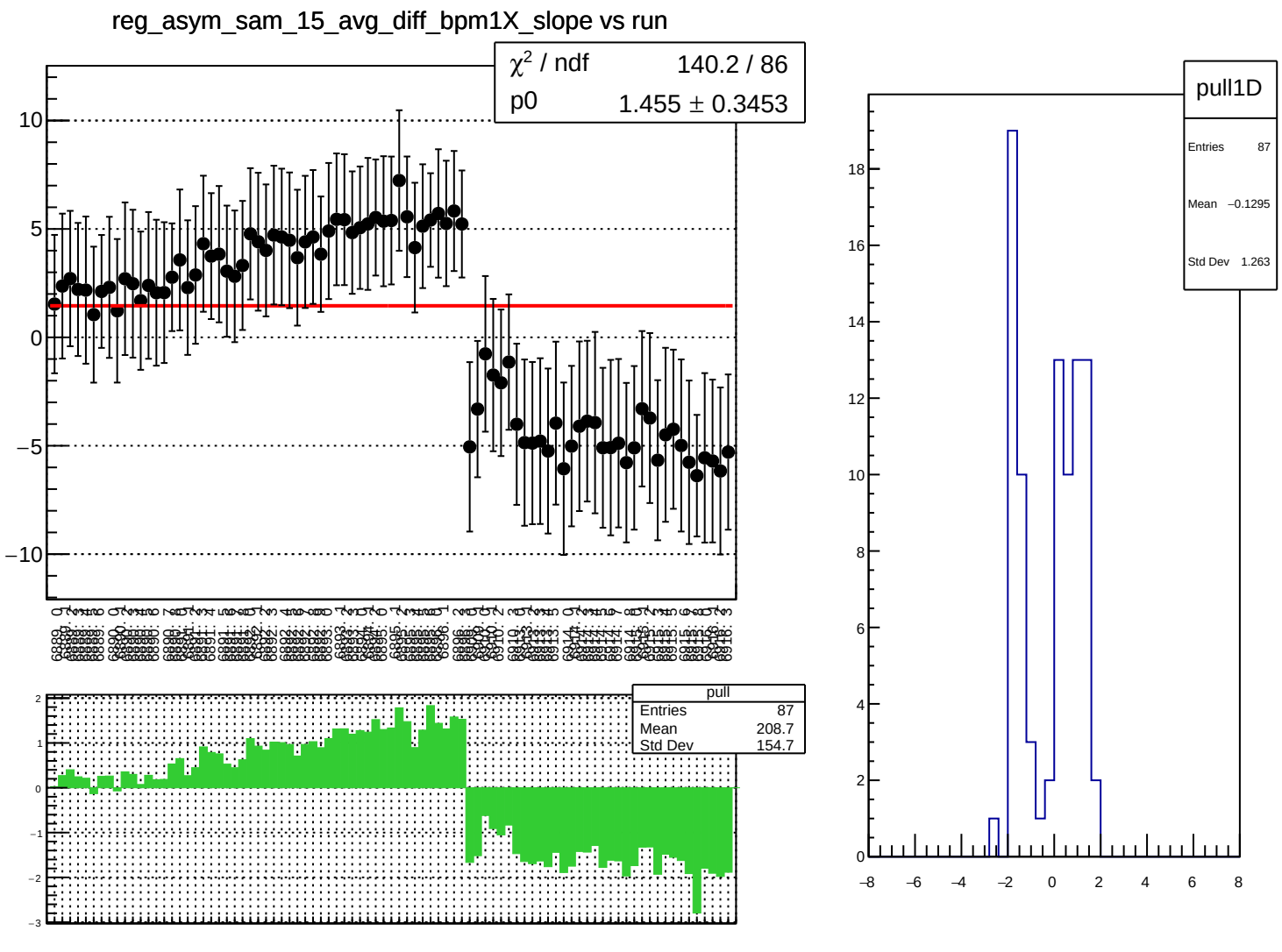

pull1D
Entries 87
Mean 0.04408
Std Dev 0.6551

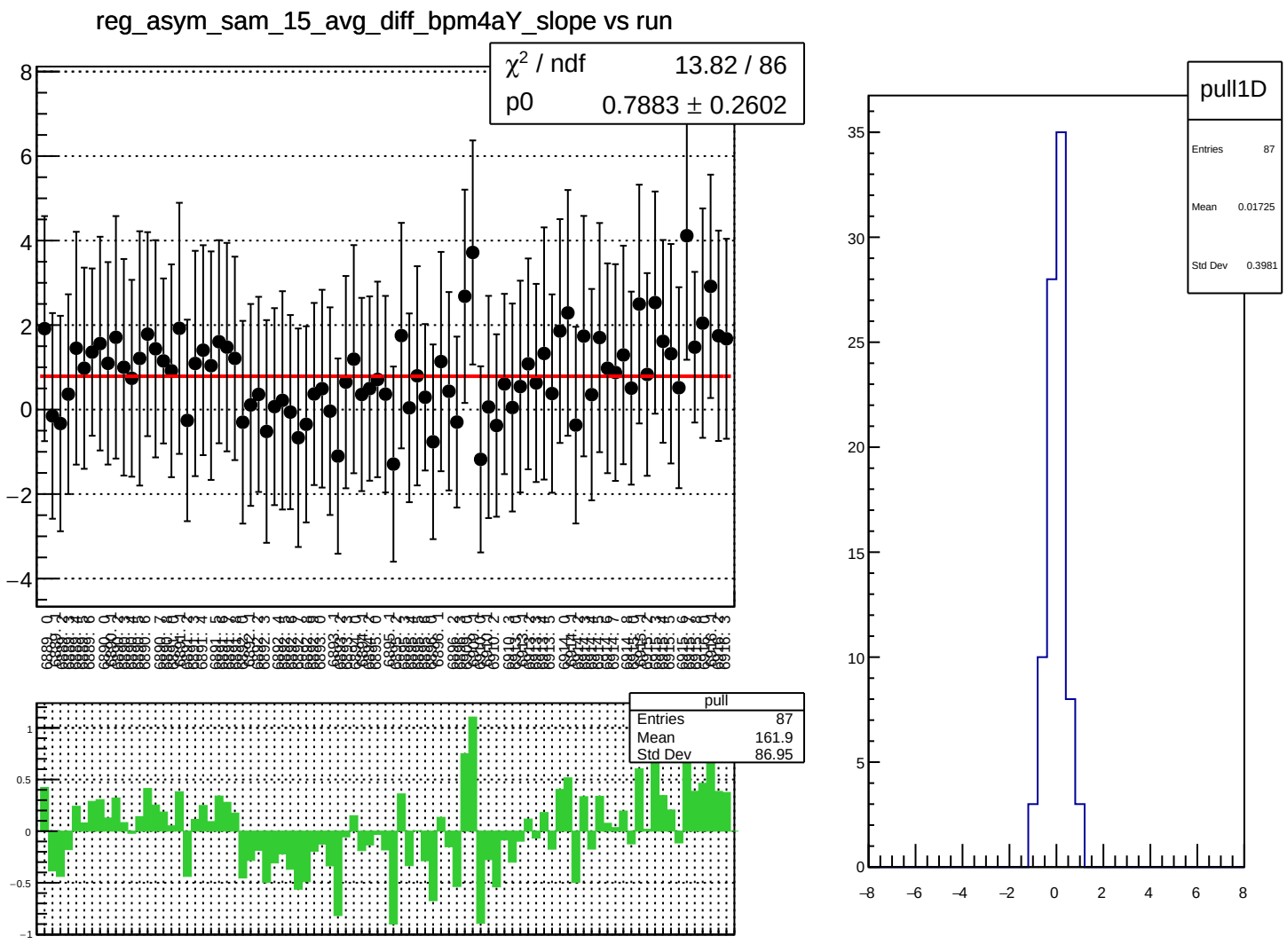

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.01 / 86
p0 5.789 ± 0.8679
pull
Entries 87
Mean 396.6
Std Dev 340.7

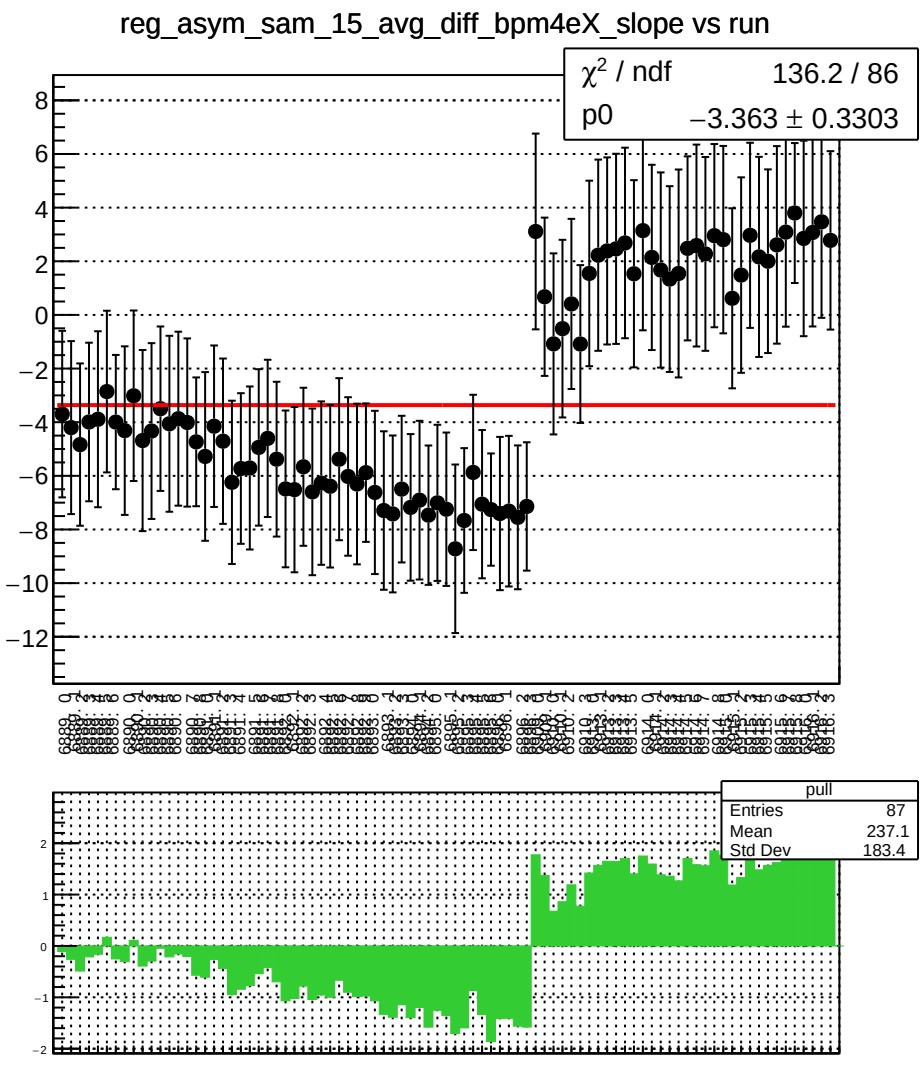

pull1D
Entries 87
Mean 0.004461
Std Dev 0.5873

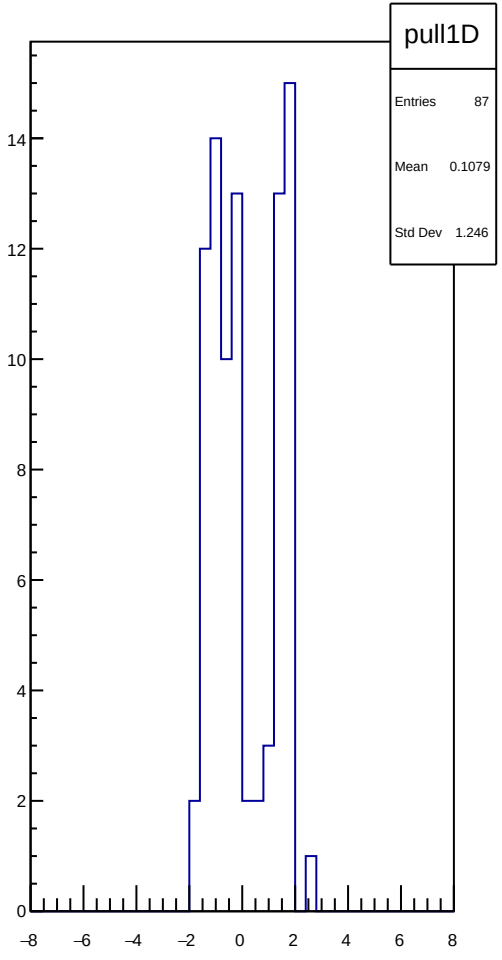

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 76.8 / 86
p0 −18.79 ± 0.03825
−17.5
−18
−18.5
−19
−19.5
−20
pull
Entries 87
Mean 1869
Std Dev 1821
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

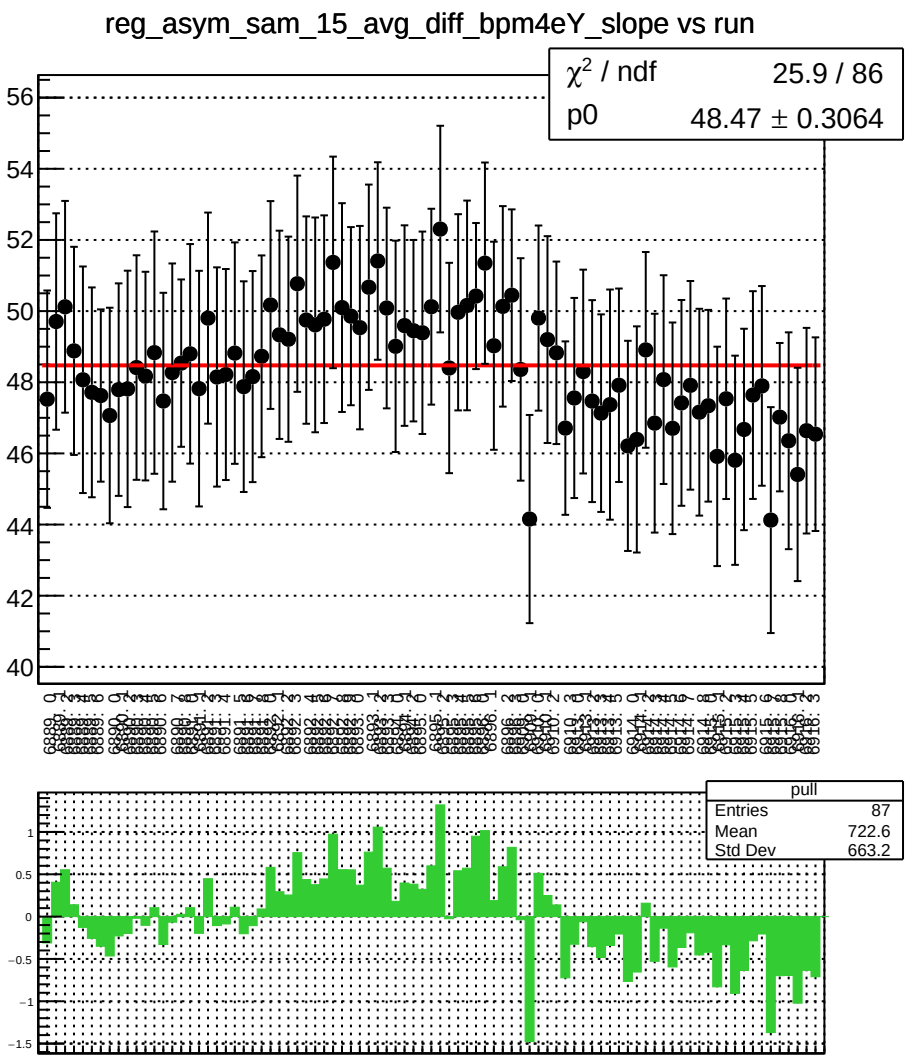

pull1D
Entries 87
Mean −0.008156
Std Dev 0.9395
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

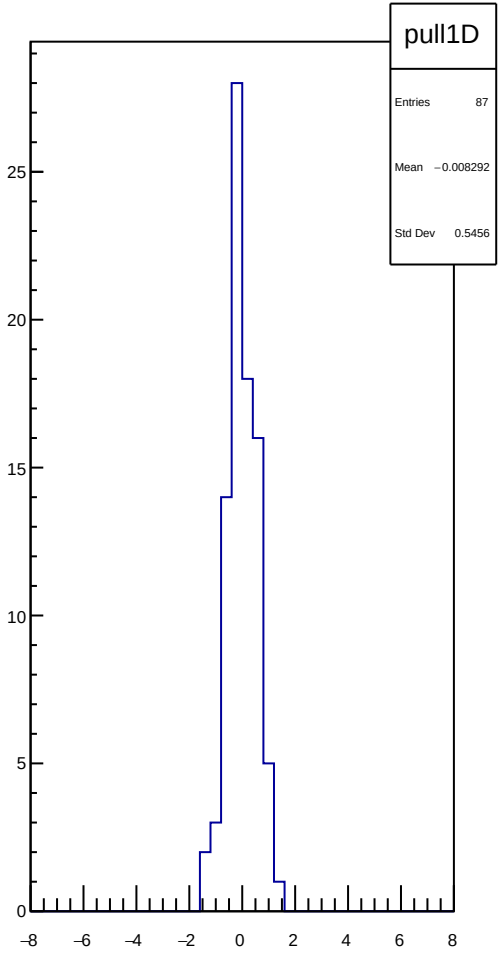

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 140.2 / 86
p0 1.455 ± 0.3453
pull
Entries 87
Mean 208.7
Std Dev 154.7
pull1D
Entries 87
Mean −0.1295
Std Dev 1.263

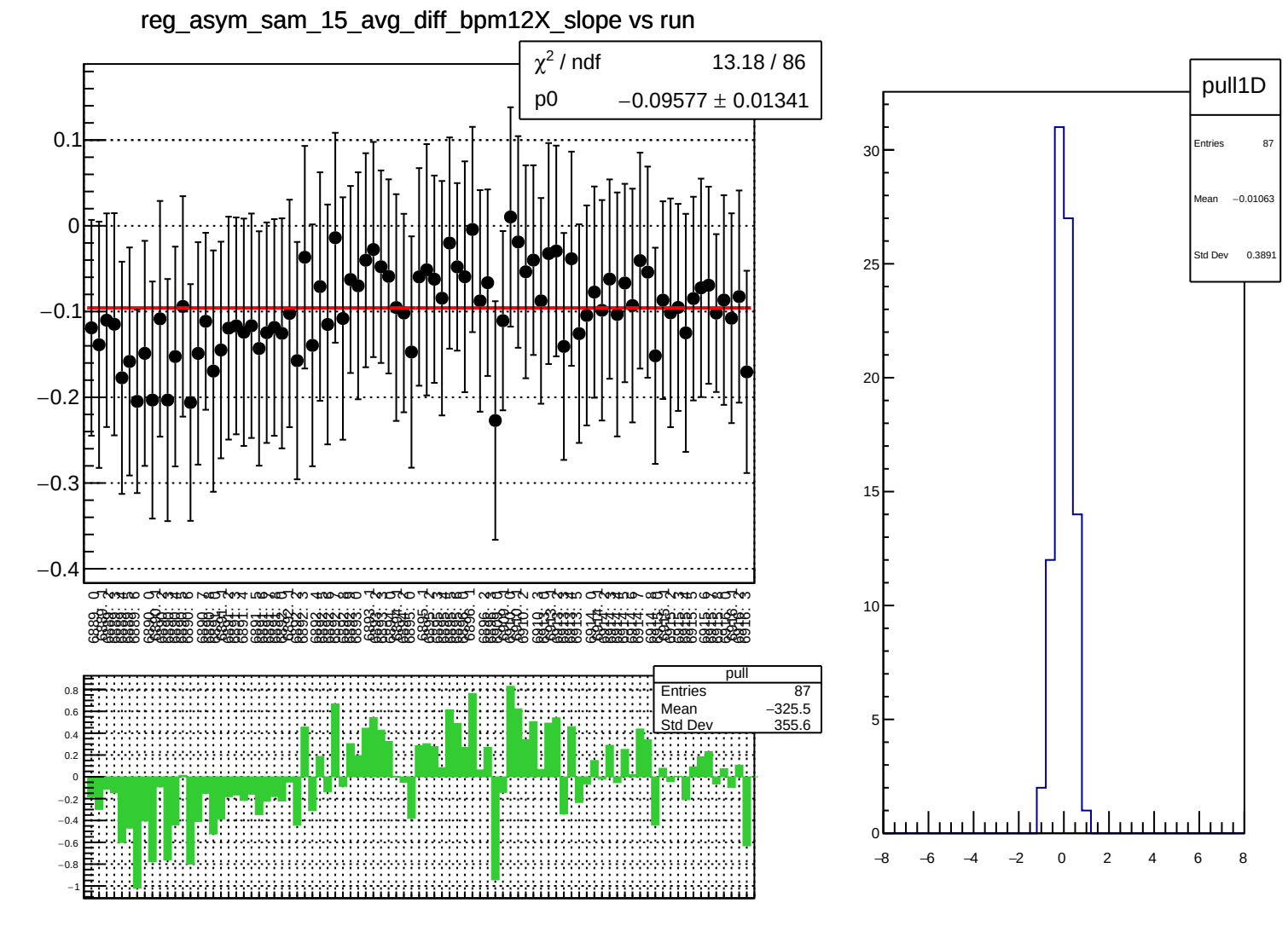

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.82 / 86
p0 0.7883 ± 0.2602
pull
Entries 87
Mean 161.9
Std Dev 86.95
pull1D
Entries 87
Mean 0.01725
Std Dev 0.3981

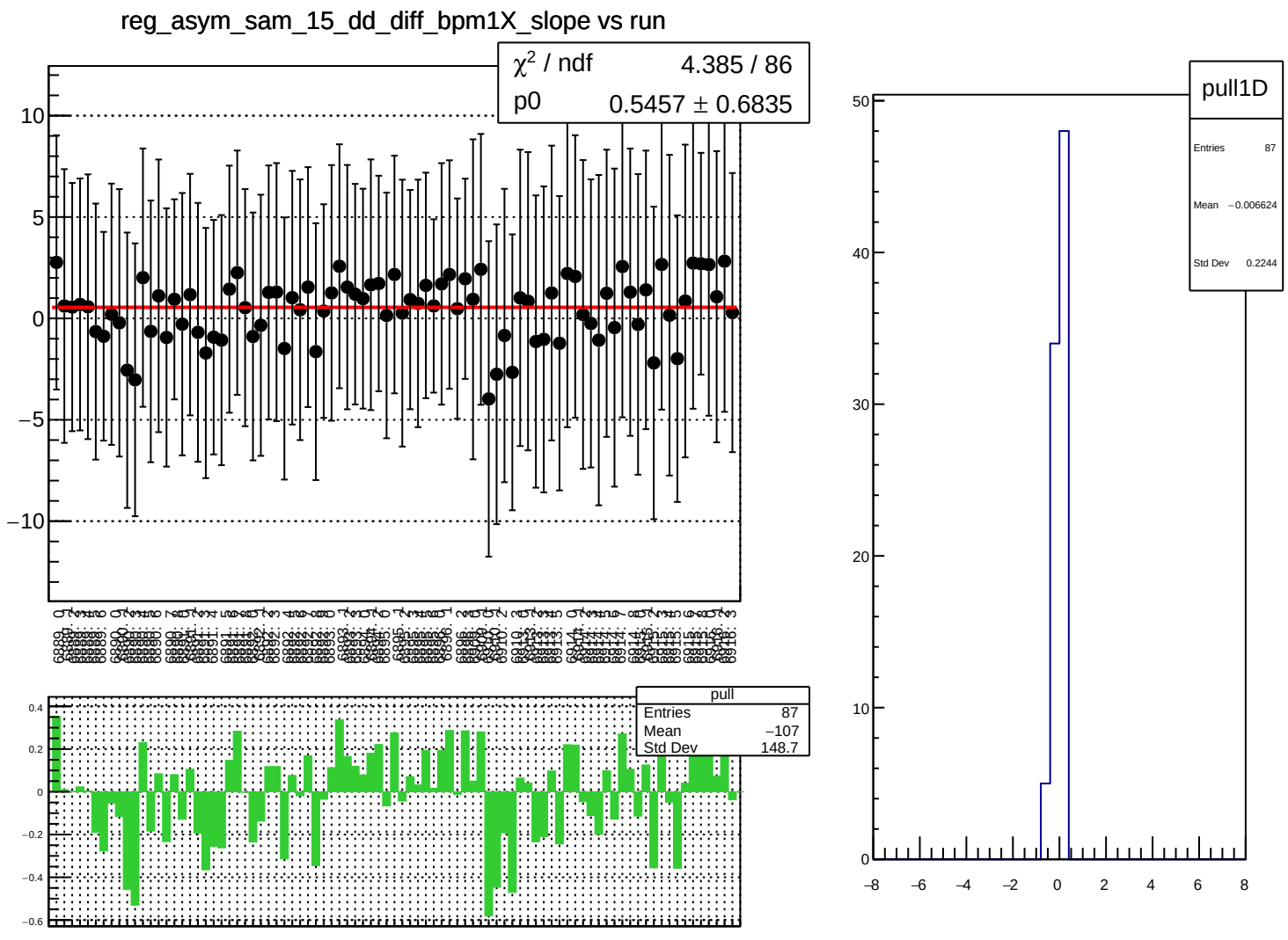

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 136.2 / 86
p0 −3.363 ± 0.3303
pull
Entries 87
Mean 237.1
Std Dev 183.4

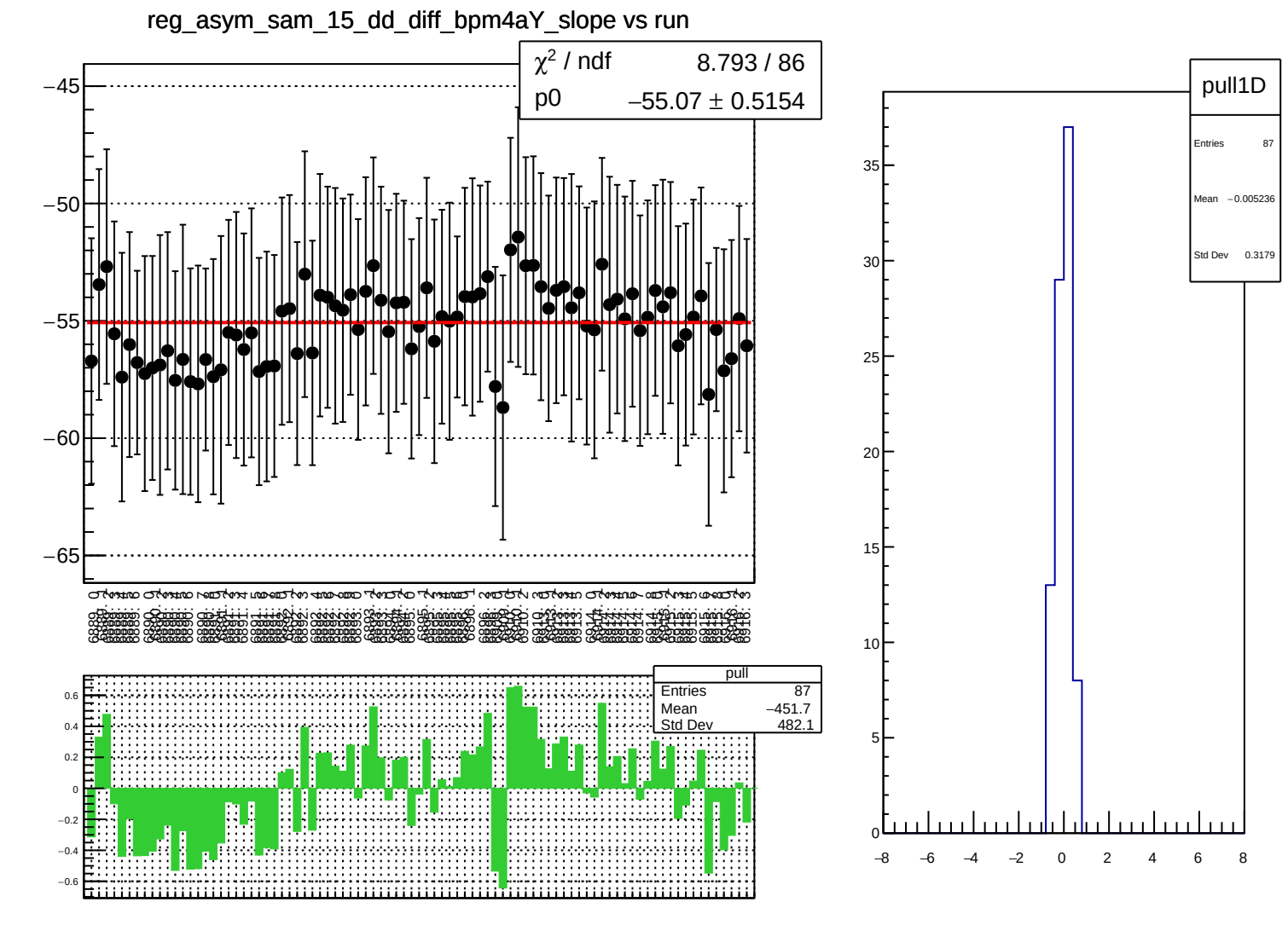

pull1D
Entries 87
Mean 0.1079
Std Dev 1.246

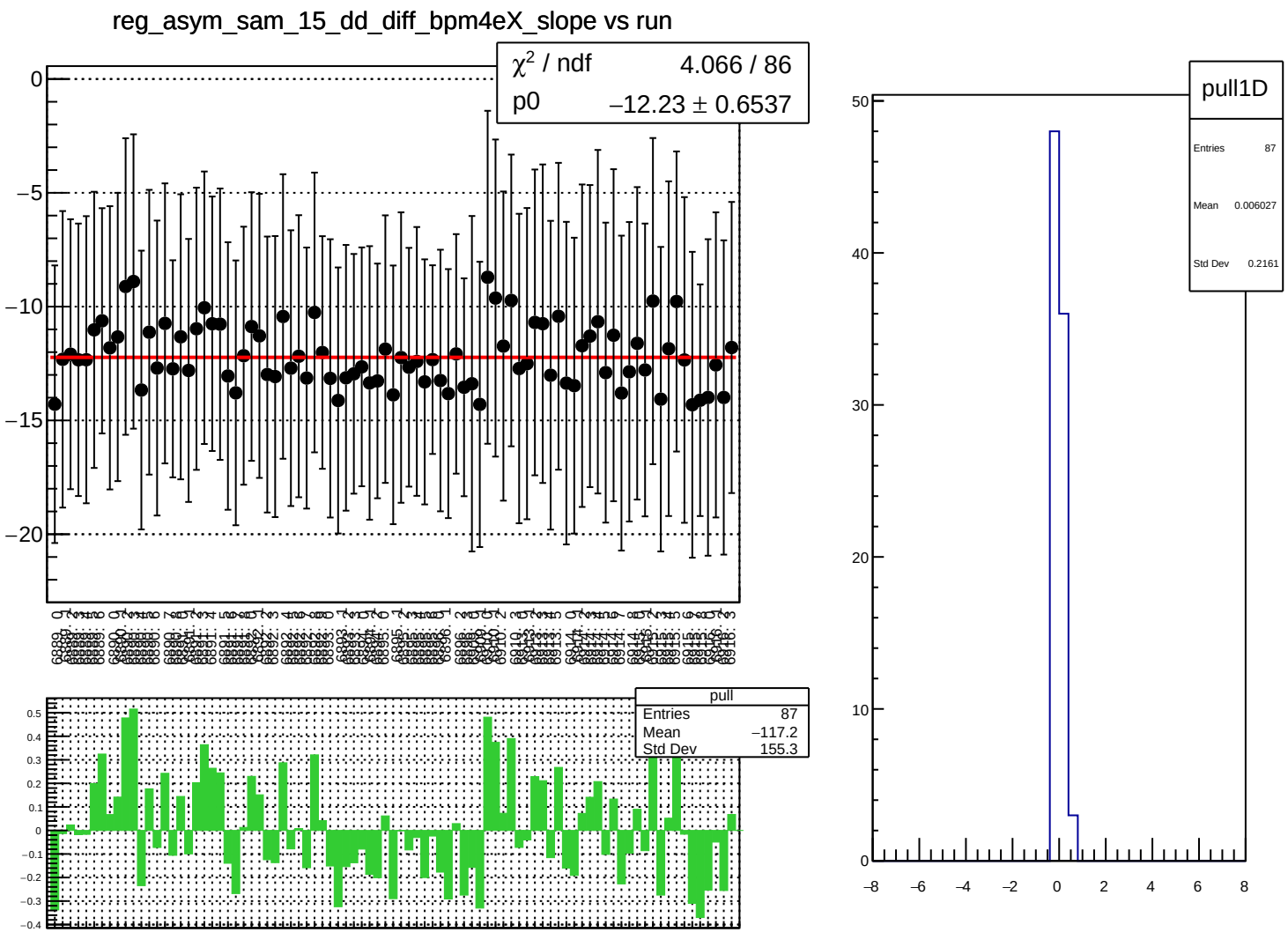

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.9 / 86
p0 48.47 ± 0.3064
pull
Entries 87
Mean 722.6
Std Dev 663.2

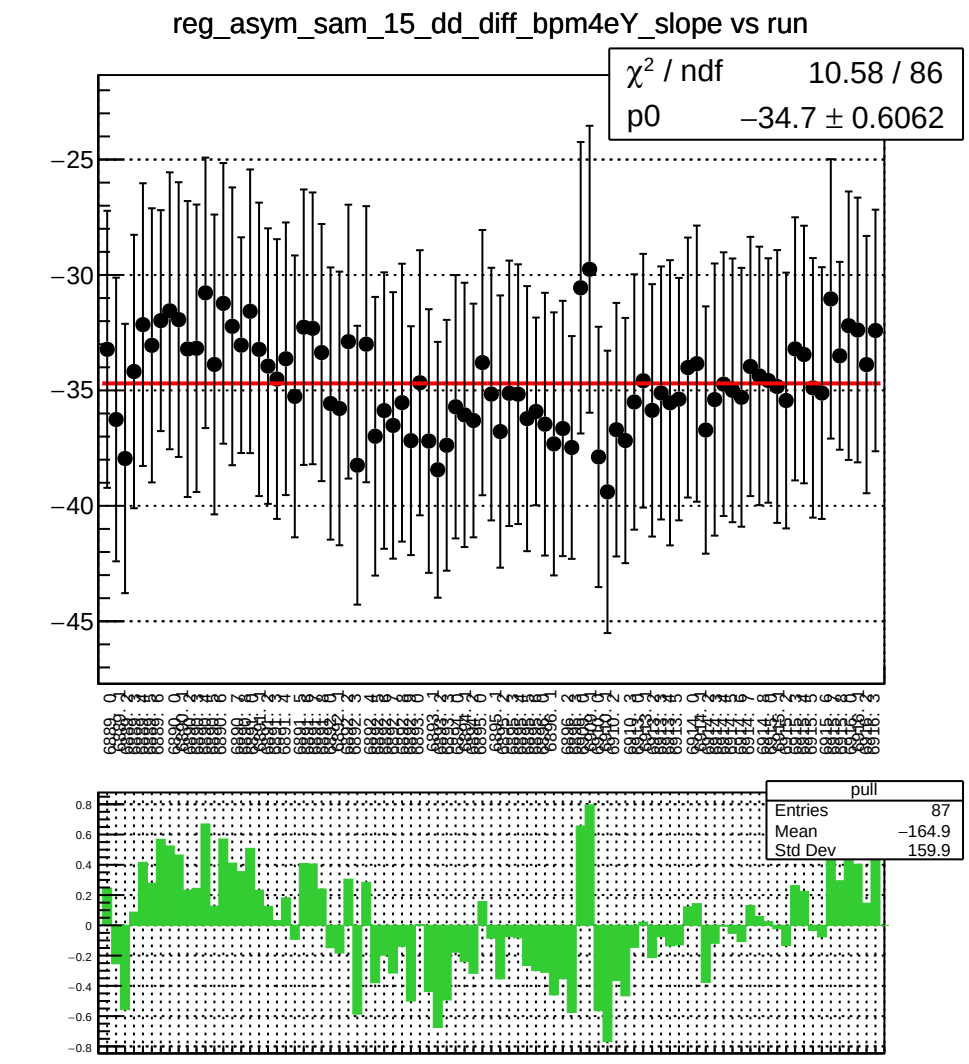

pull1D
Entries 87
Mean −0.008292
Std Dev 0.5456

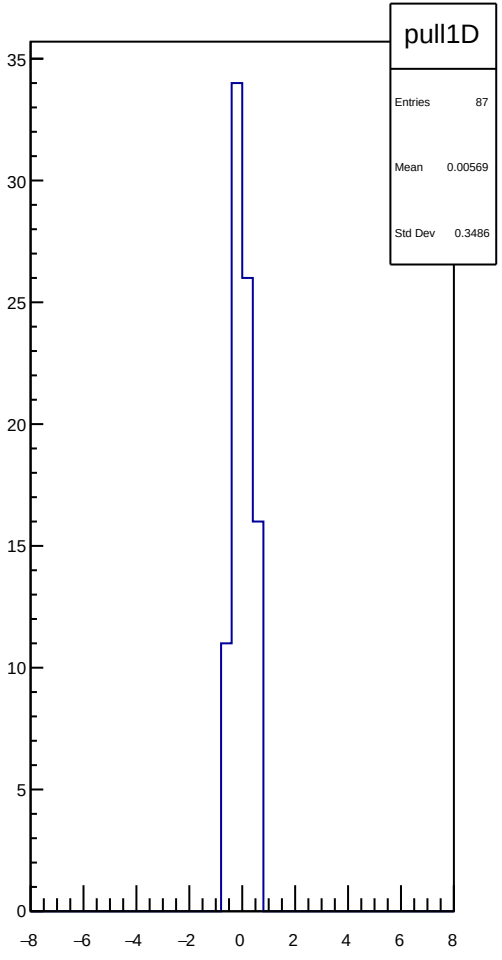

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 13.18 / 86
p0 −0.09577 ± 0.01341
pull
Entries 87
Mean −325.5
Std Dev 355.6
pull1D
Entries 87
Mean −0.01063
Std Dev 0.3891

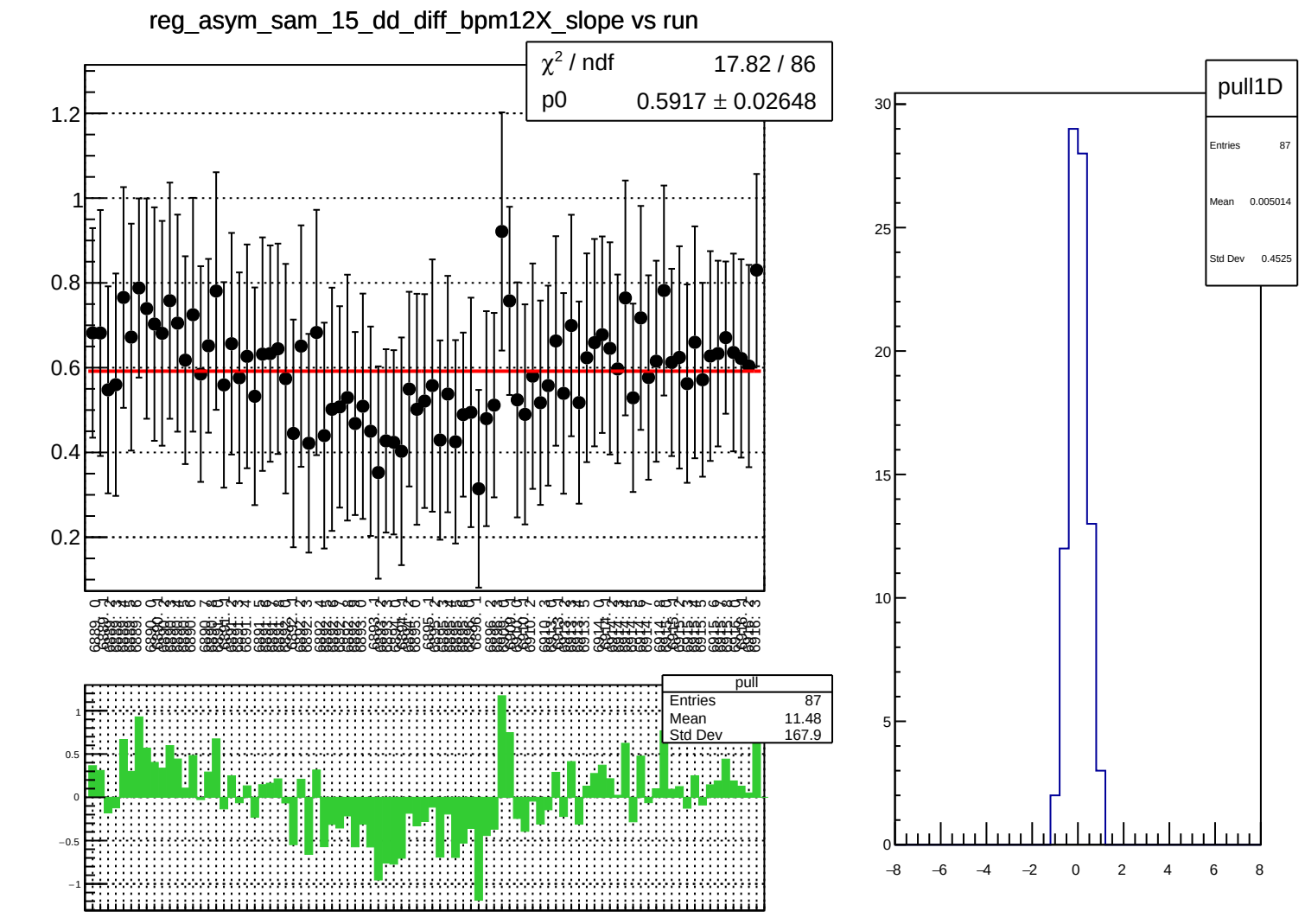

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 4.385 / 86
p0 0.5457 ± 0.6835
pull
Entries 87
Mean −107
Std Dev 148.7
pull1D
Entries 87
Mean −0.006624
Std Dev 0.2244

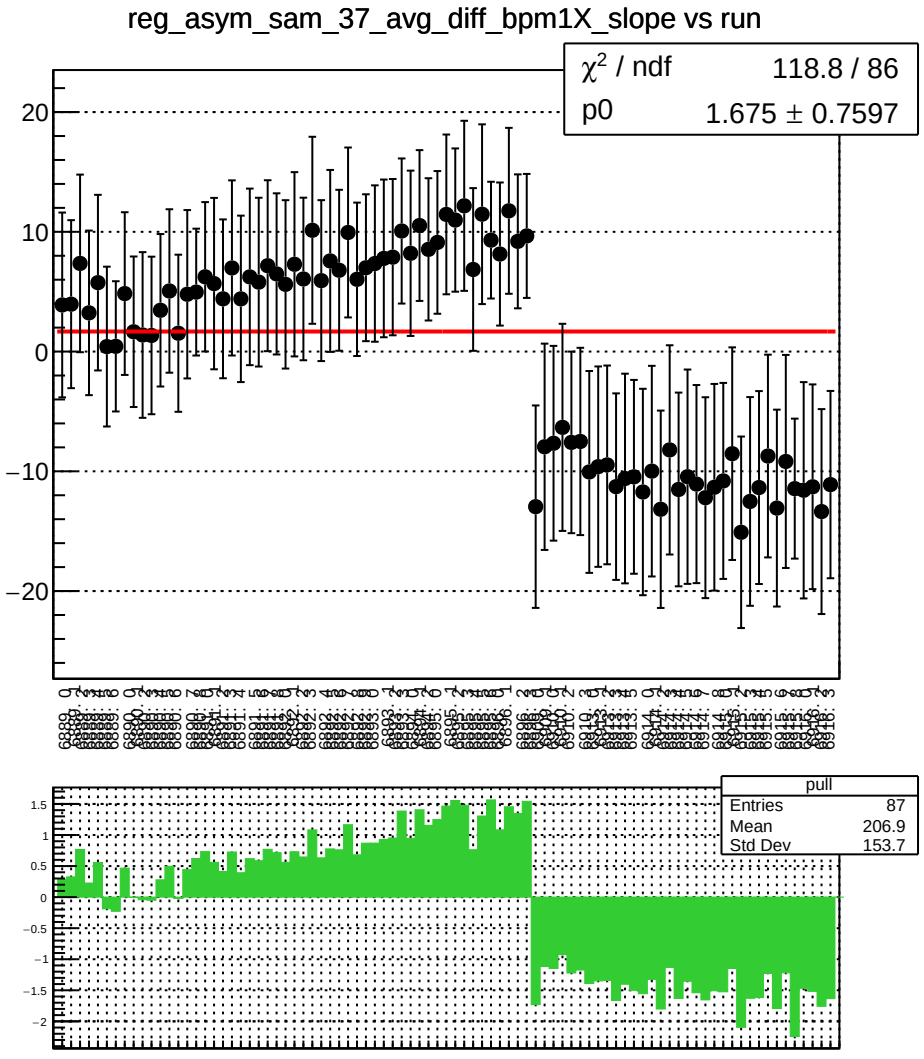

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.793 / 86
p0 −55.07 ± 0.5154
−45
−50
−55
−60
−65
pull
Entries 87
Mean −451.7
Std Dev 482.1
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 87
Mean −0.005236
Std Dev 0.3179
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

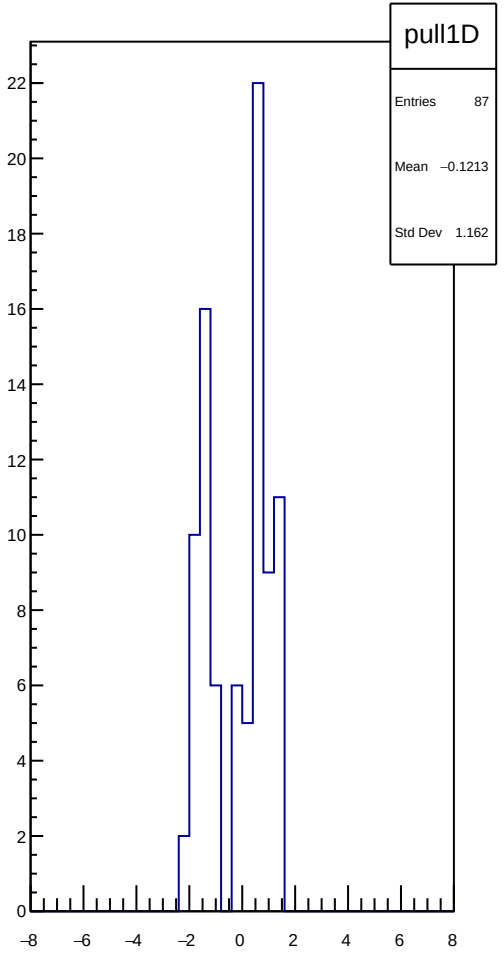

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.066 / 86
p0 −12.23 ± 0.6537
pull
Entries 87
Mean −117.2
Std Dev 155.3
pull1D
Entries 87
Mean 0.006027
Std Dev 0.2161

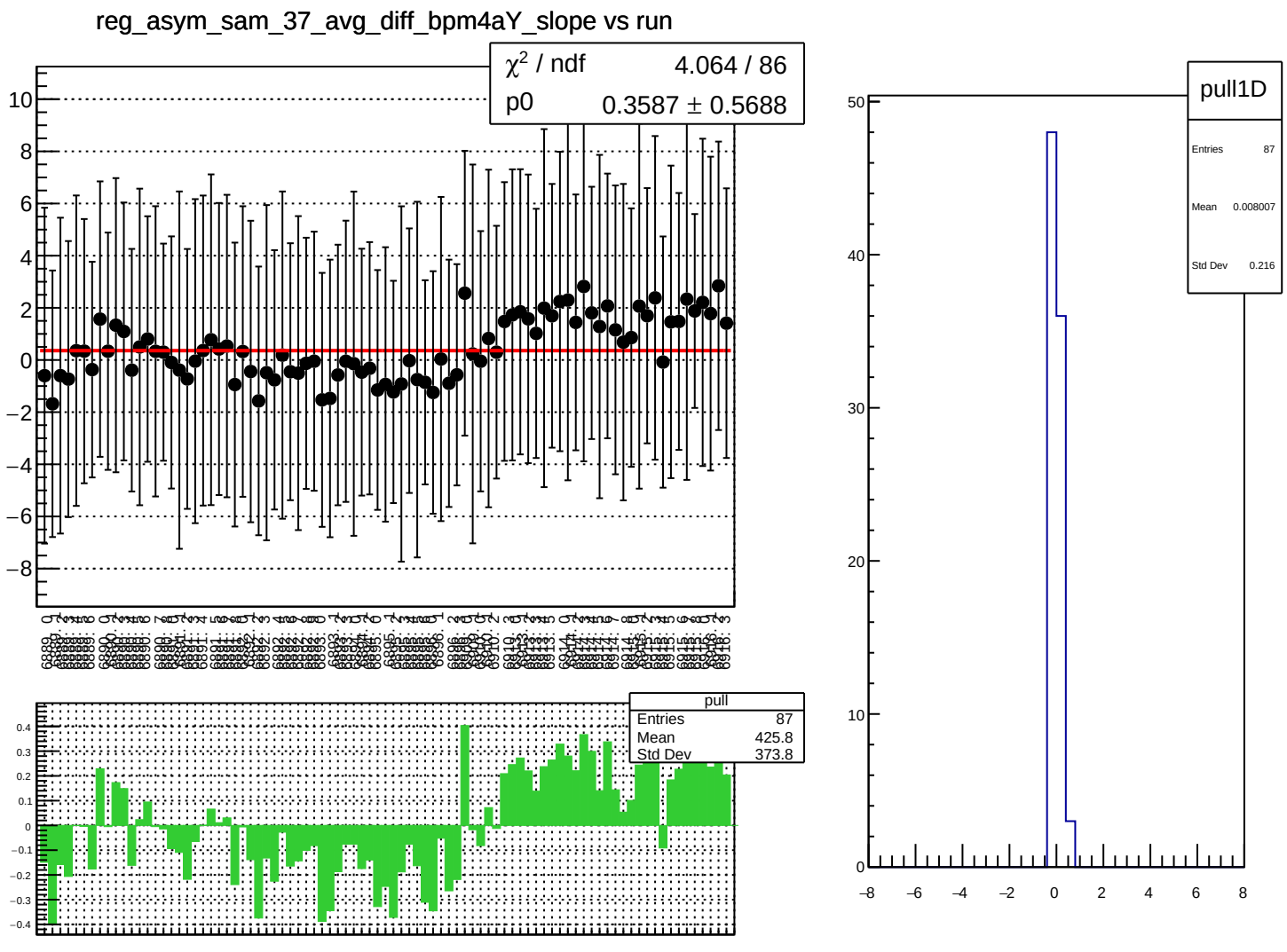

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.58 / 86
p0 −34.7 ± 0.6062
−25
−30
−35
−40
−45
pull
Entries 87
Mean −164.9
Std Dev 159.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

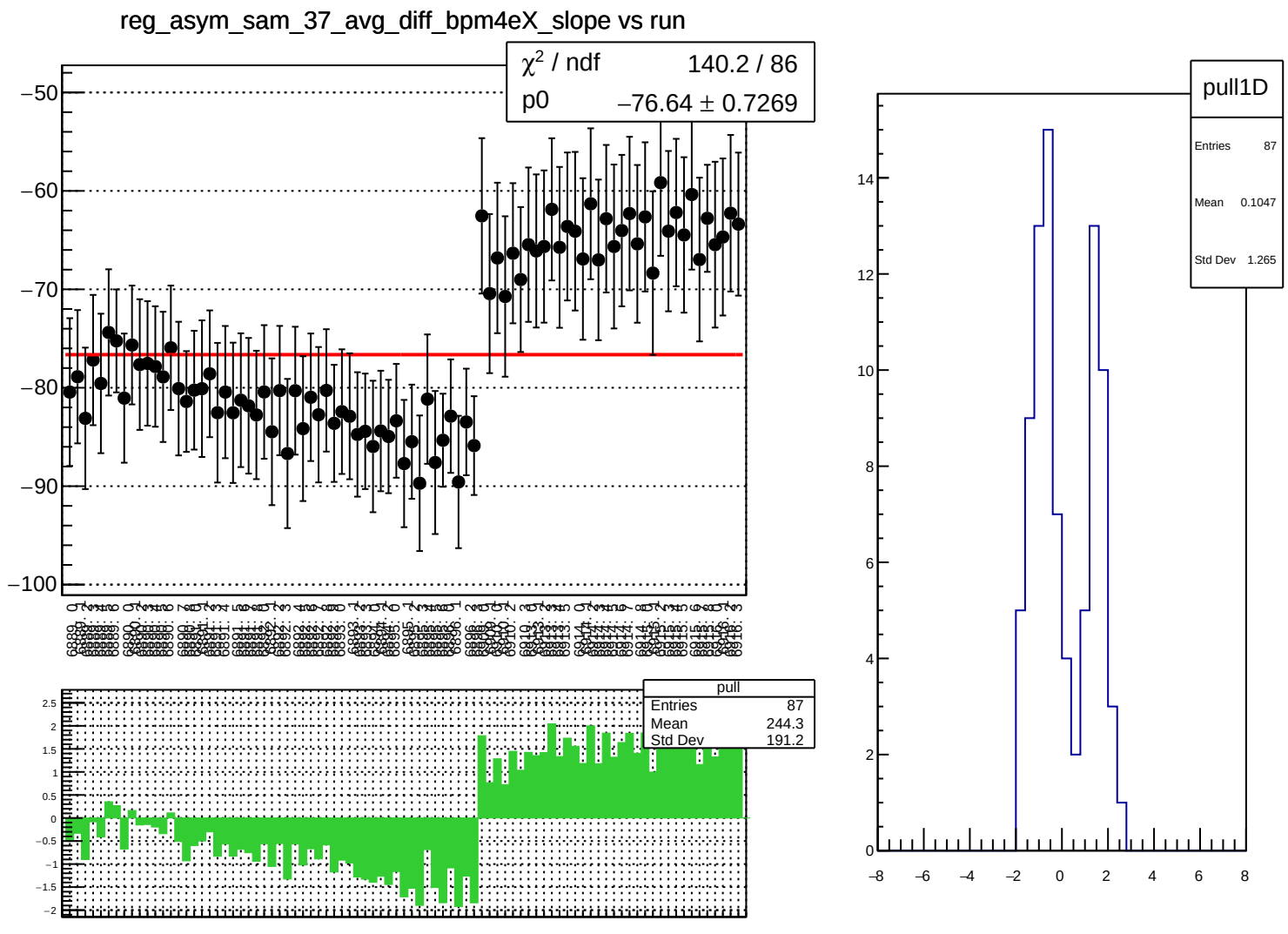

pull1D
Entries 87
Mean 0.00569
Std Dev 0.3486
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

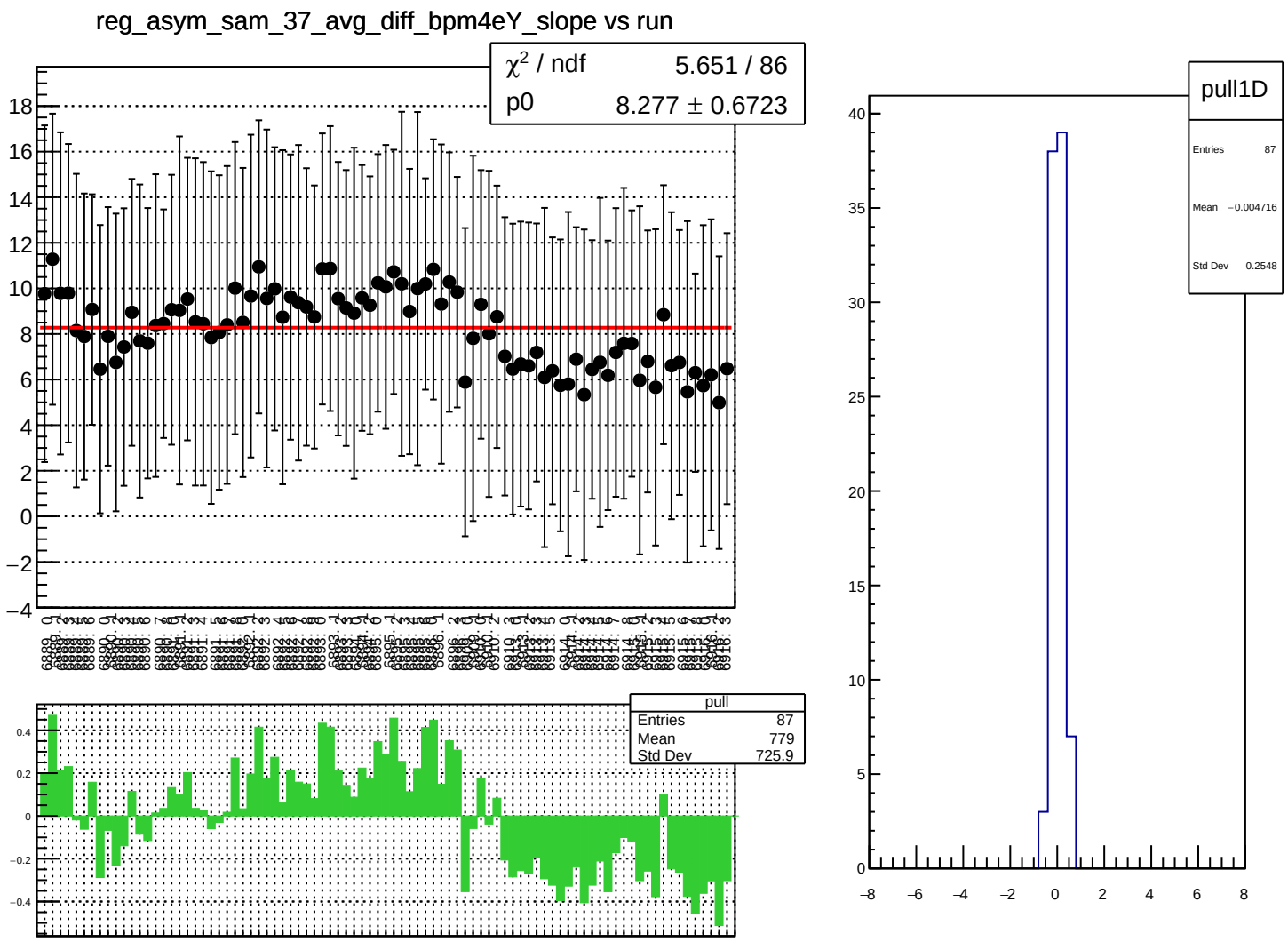

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 17.82 / 86
p0 0.5917 ± 0.02648
pull
Entries 87
Mean 11.48
Std Dev 167.9
pull1D
Entries 87
Mean 0.005014
Std Dev 0.4525

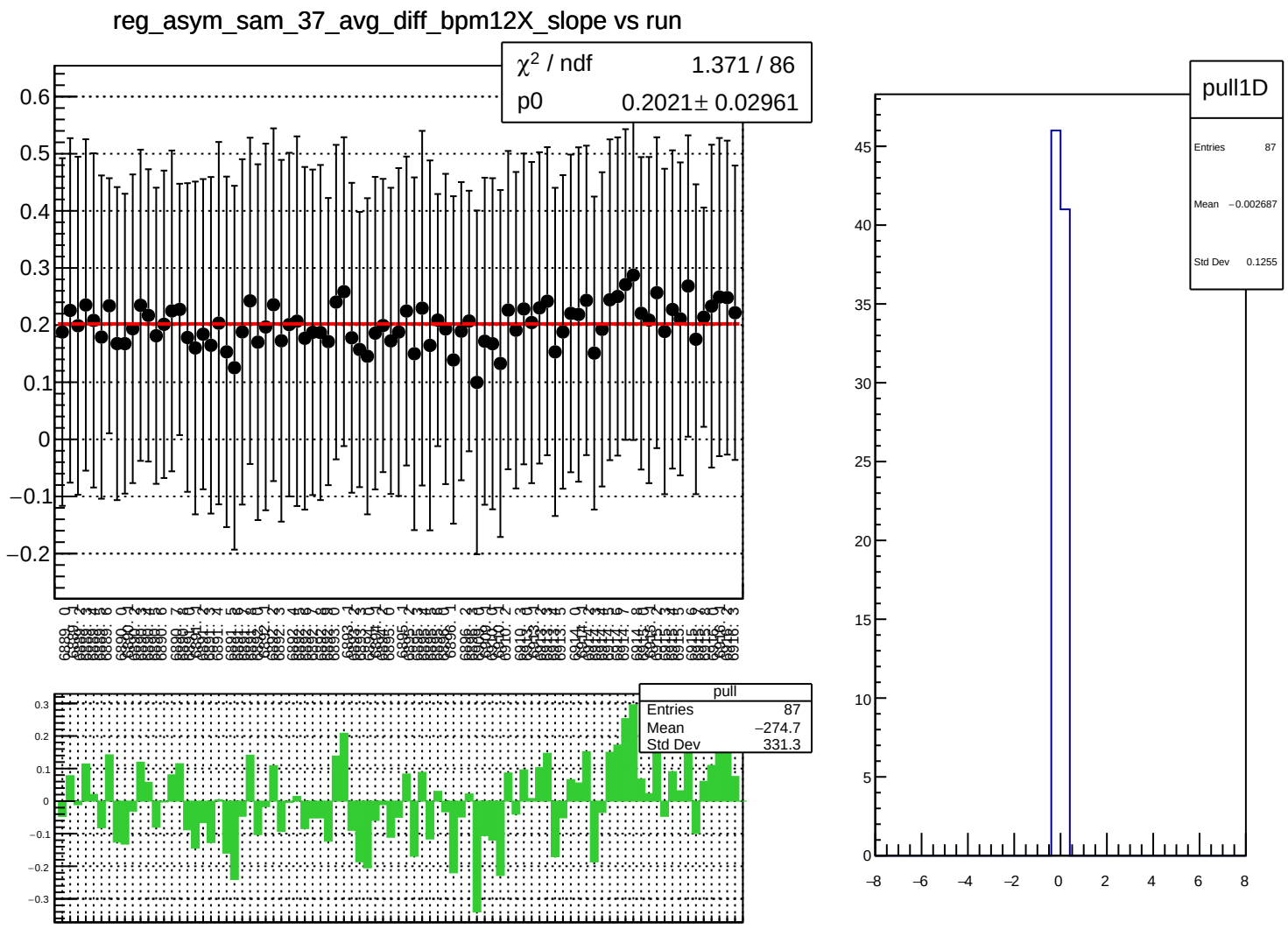

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 118.8 / 86
p0 1.675 ± 0.7597
pull
Entries 87
Mean 206.9
Std Dev 153.7

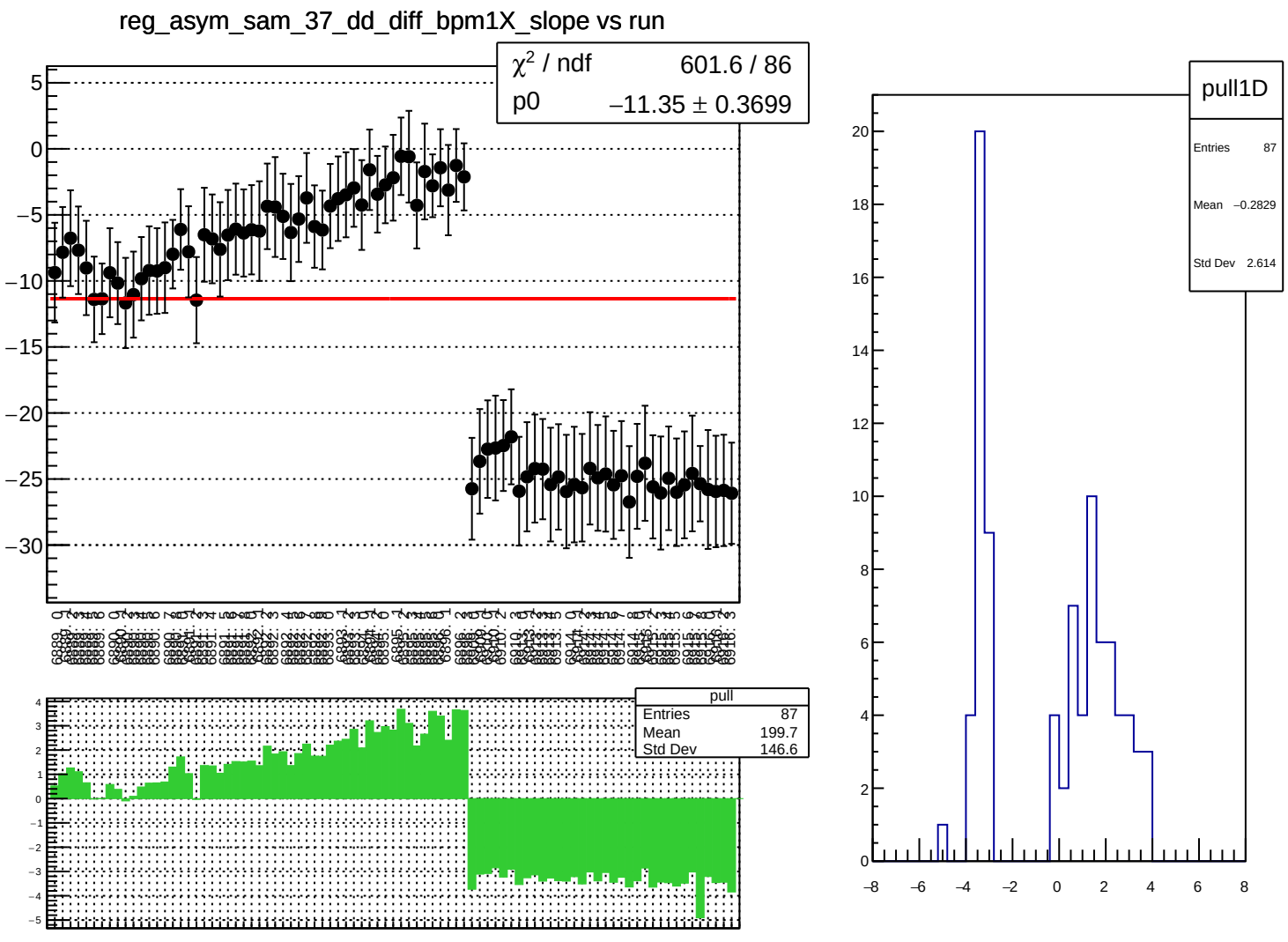

pull1D
Entries 87
Mean −0.1213
Std Dev 1.162

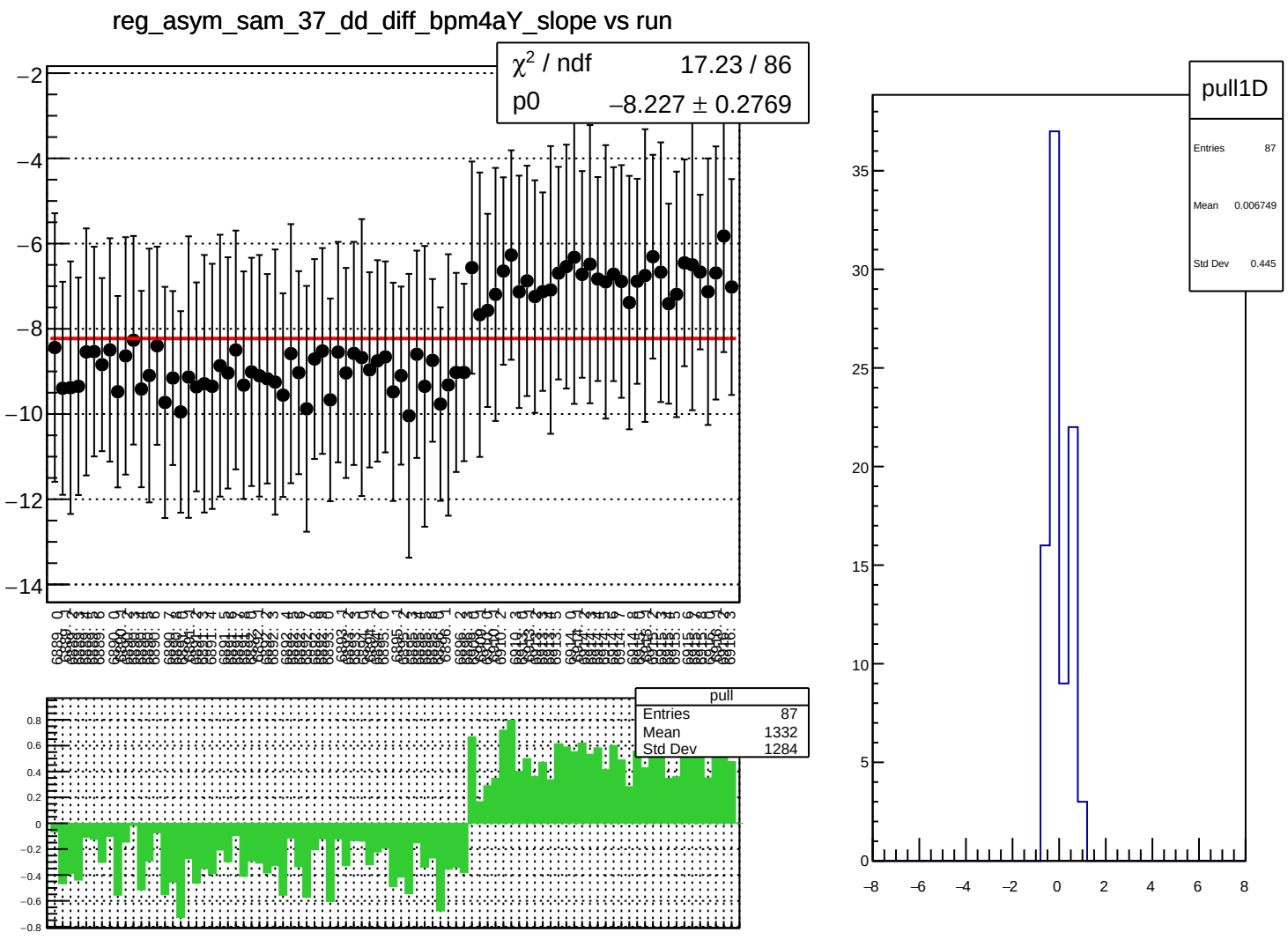

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.064 / 86
p0 0.3587 ± 0.5688
pull
Entries 87
Mean 425.8
Std Dev 373.8
pull1D
Entries 87
Mean 0.008007
Std Dev 0.216

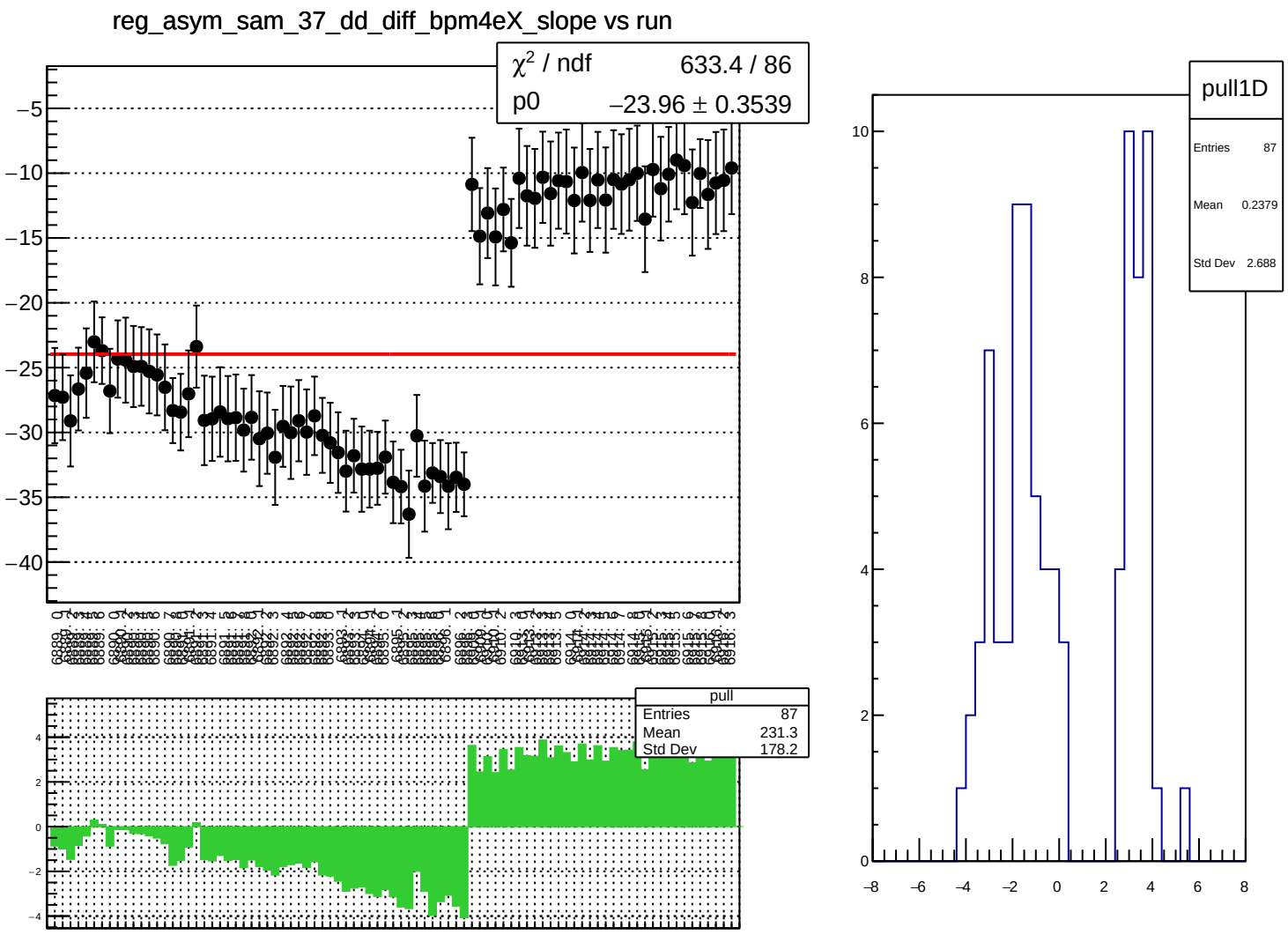

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 140.2 / 86
p0 −76.64 ± 0.7269
−50
−60
−70
−80
−90
−100
pull
Entries 87
Mean 244.3
Std Dev 191.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean 0.1047
Std Dev 1.265
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

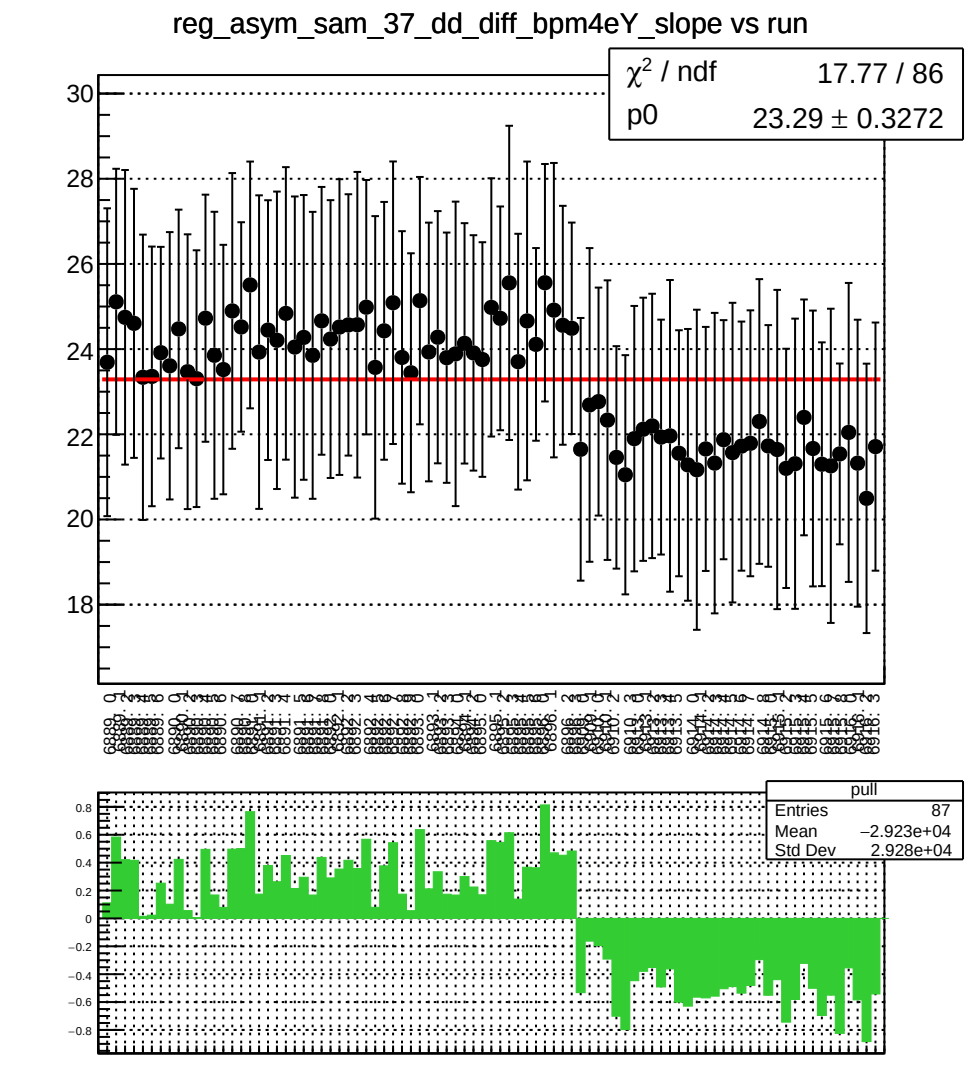

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.651 / 86
p0 8.277 ± 0.6723
pull
Entries 87
Mean 779
Std Dev 725.9
pull1D
Entries 87
Mean −0.004716
Std Dev 0.2548

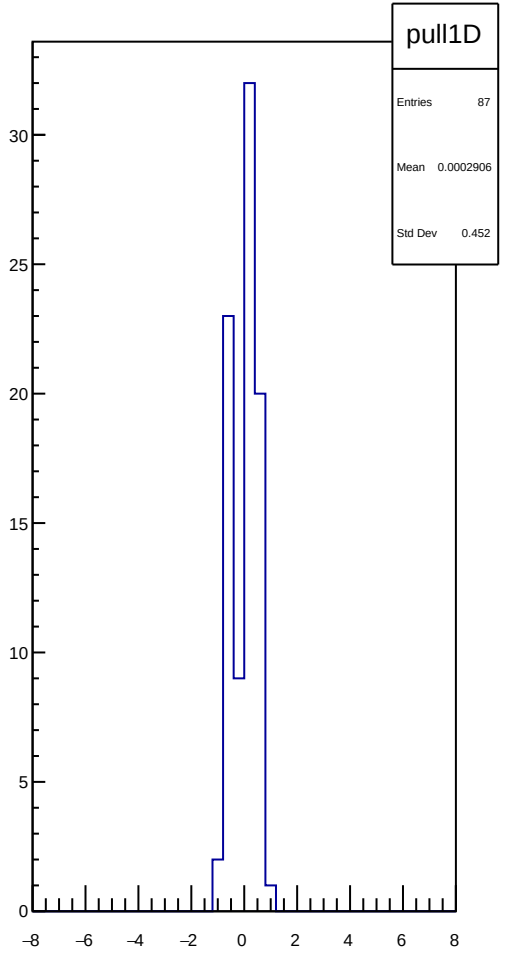

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 1.371 / 86
p0 0.2021± 0.02961
pull
Entries 87
Mean −274.7
Std Dev 331.3
pull1D
Entries 87
Mean −0.002687
Std Dev 0.1255

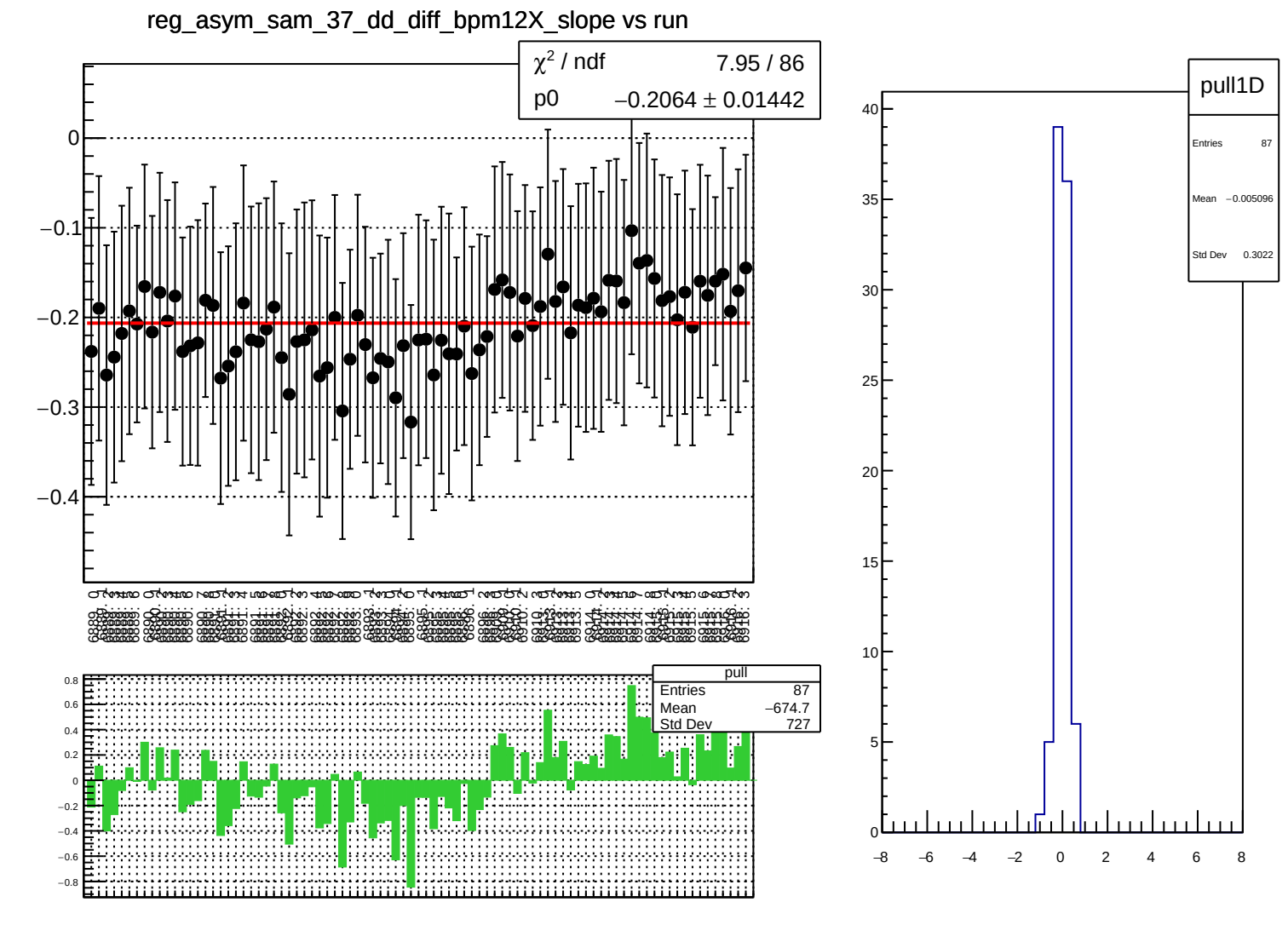

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 601.6 / 86
p0 −11.35 ± 0.3699
pull
Entries 87
Mean 199.7
Std Dev 146.6
pull1D
Entries 87
Mean −0.2829
Std Dev 2.614

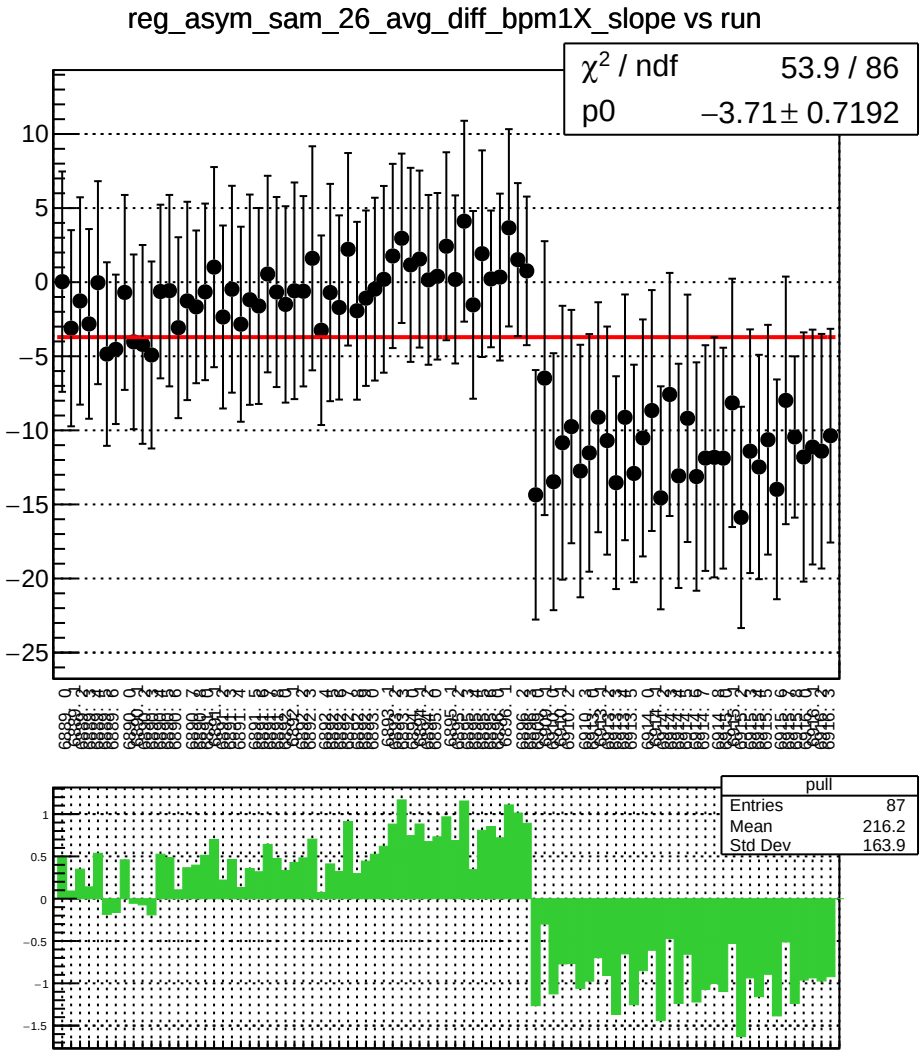

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.23 / 86
p0 −8.227 ± 0.2769
pull
Entries 87
Mean 1332
Std Dev 1284
pull1D
Entries 87
Mean 0.006749
Std Dev 0.445

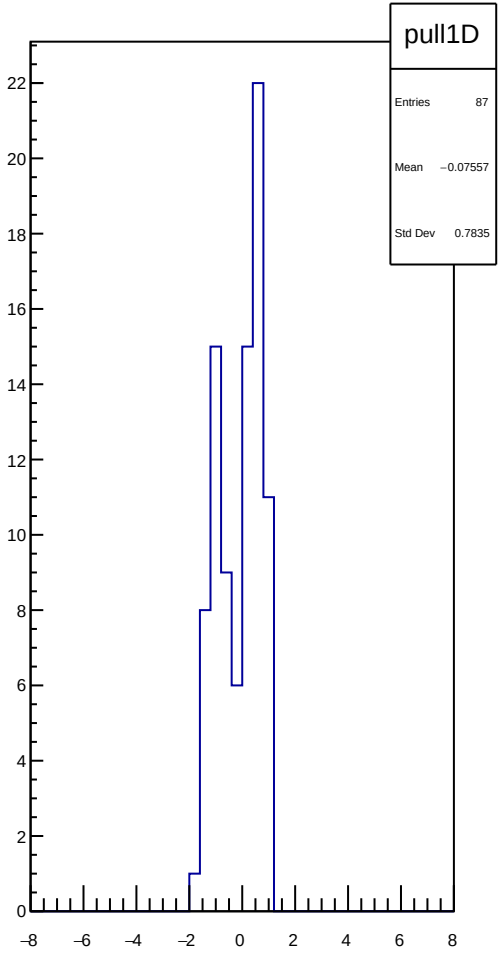

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 633.4 / 86
p0 −23.96 ± 0.3539
pull
Entries 87
Mean 231.3
Std Dev 178.2
pull1D
Entries 87
Mean 0.2379
Std Dev 2.688

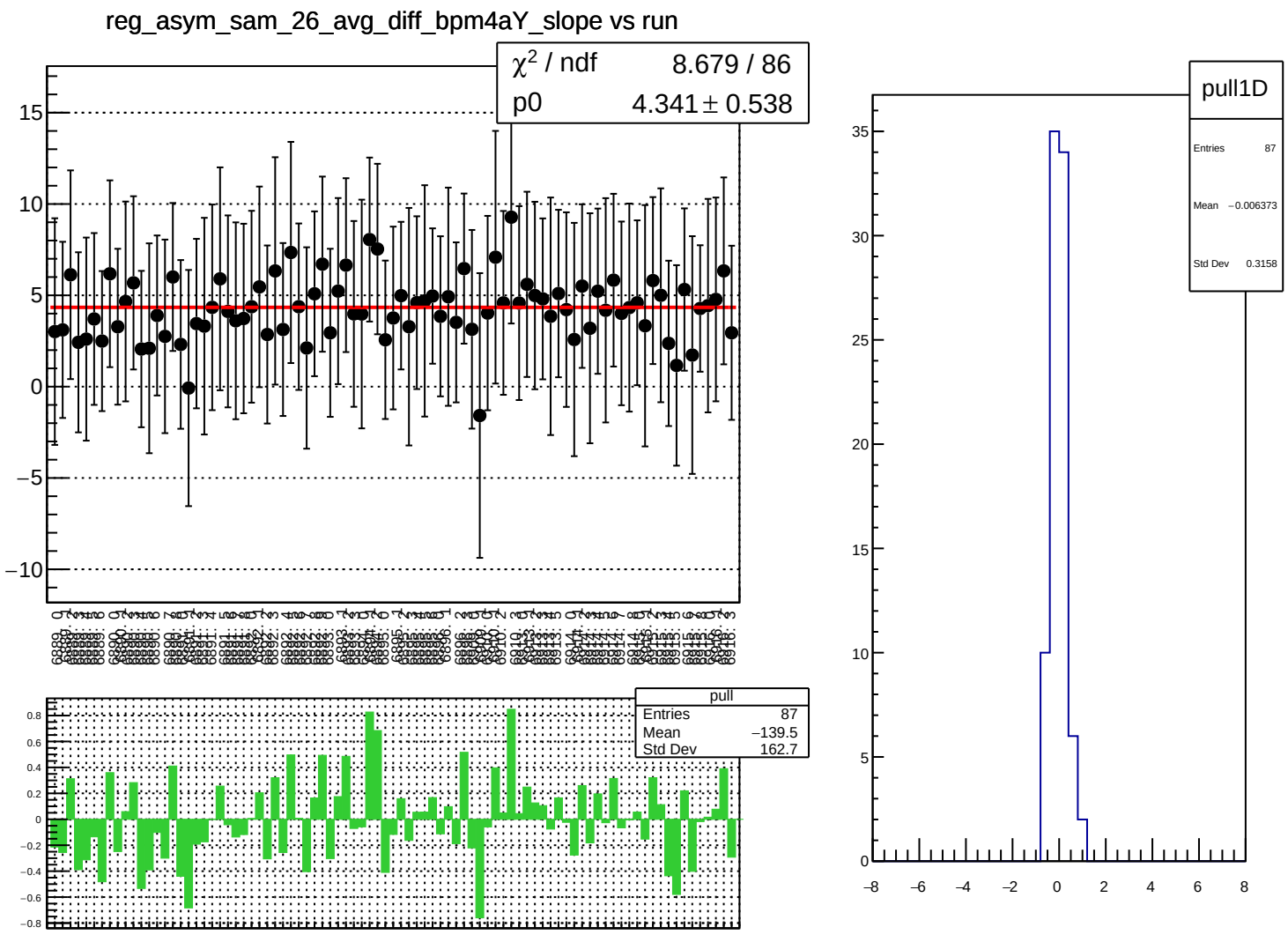

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.77 / 86
p0 23.29 ± 0.3272
30
28
26
24
22
20
18
pull
Entries 87
Mean −2.923e+04
Std Dev 2.928e+04
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

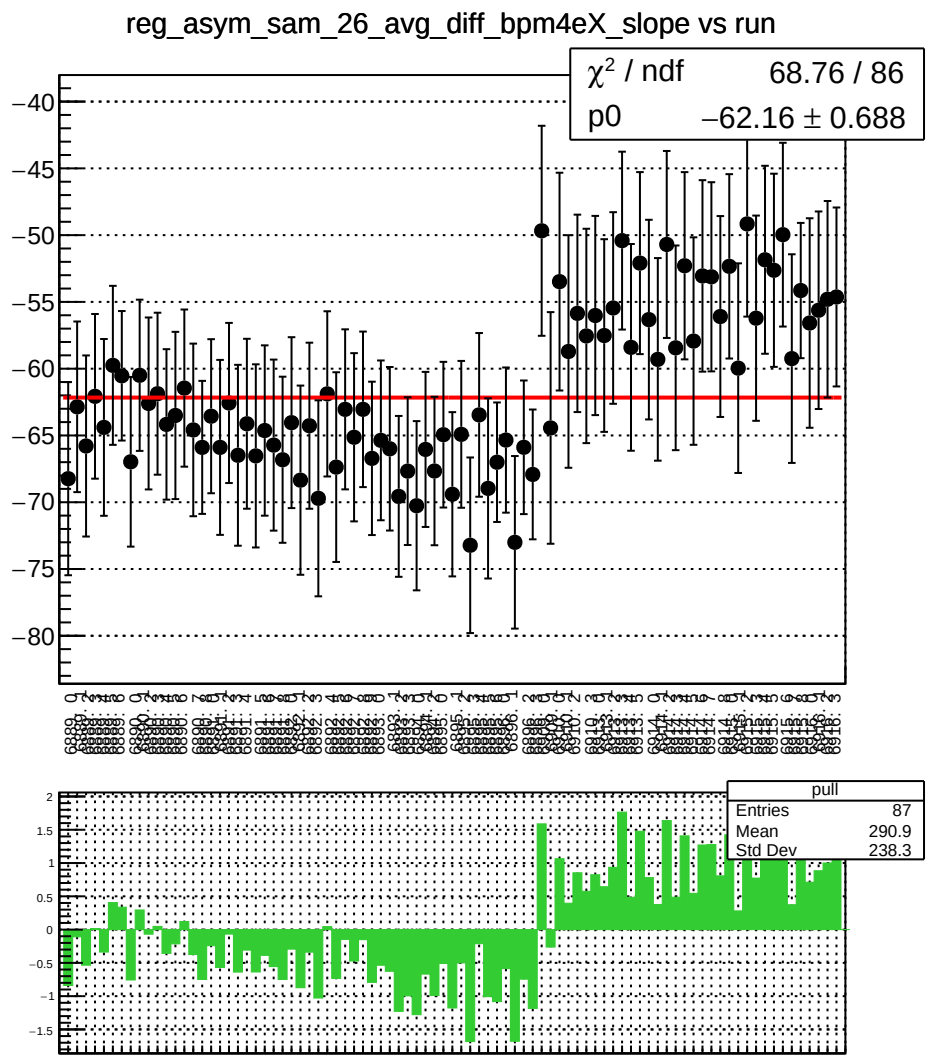

pull1D
Entries 87
Mean 0.0002906
Std Dev 0.452
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

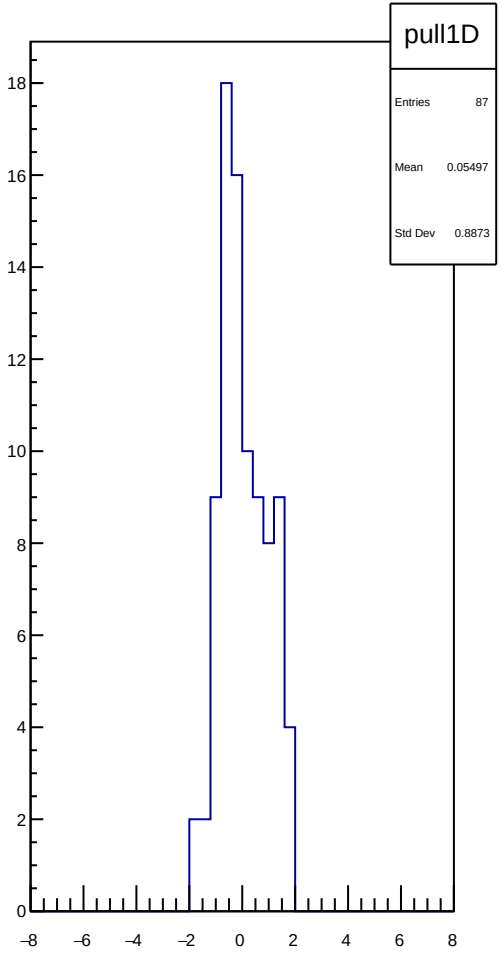

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 7.95 / 86
p0 −0.2064 ± 0.01442
pull
Entries 87
Mean −674.7
Std Dev 727
pull1D
Entries 87
Mean −0.005096
Std Dev 0.3022

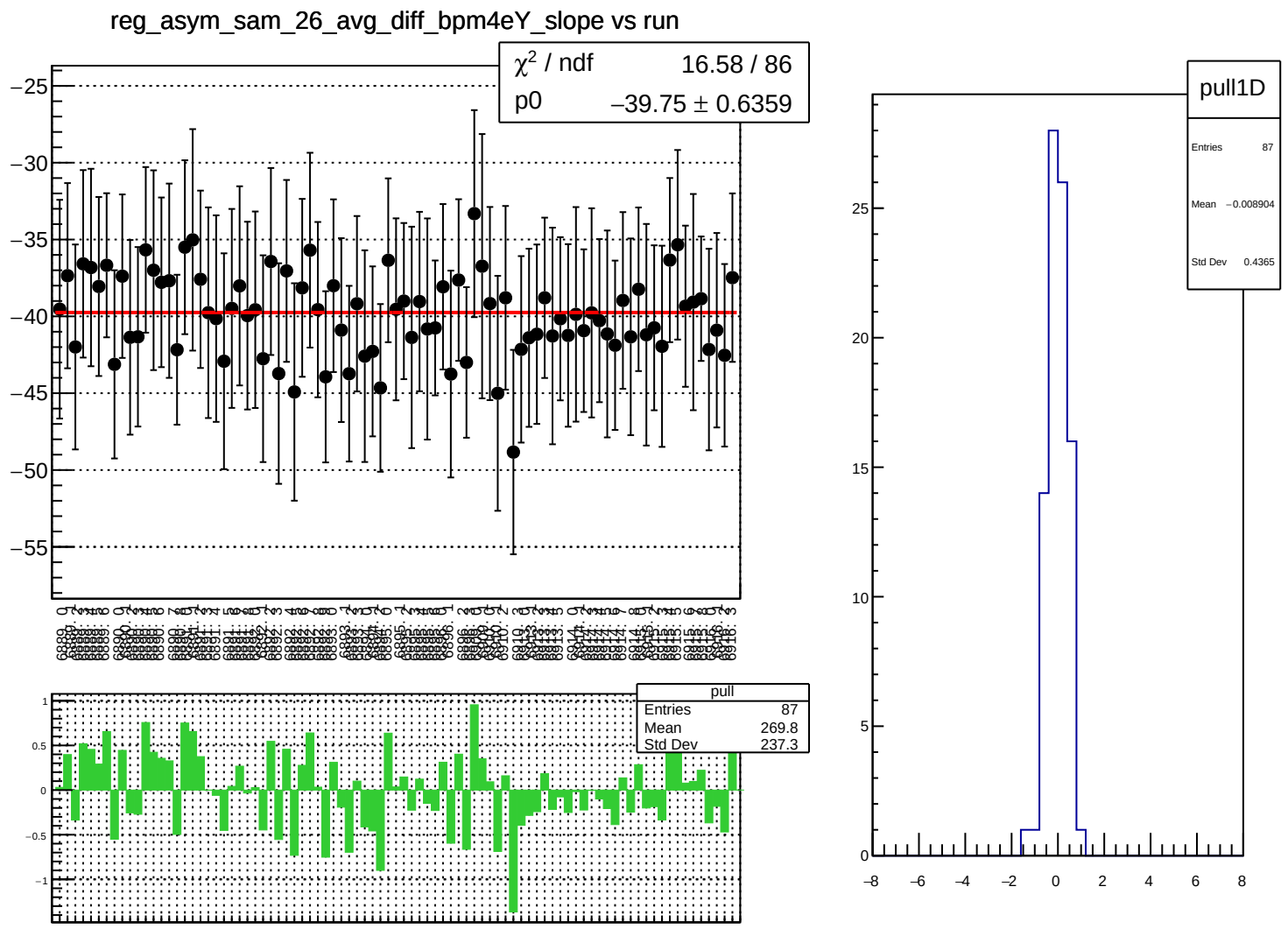

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 53.9 / 86
p0 −3.71 ± 0.7192
pull
Entries 87
Mean 216.2
Std Dev 163.9

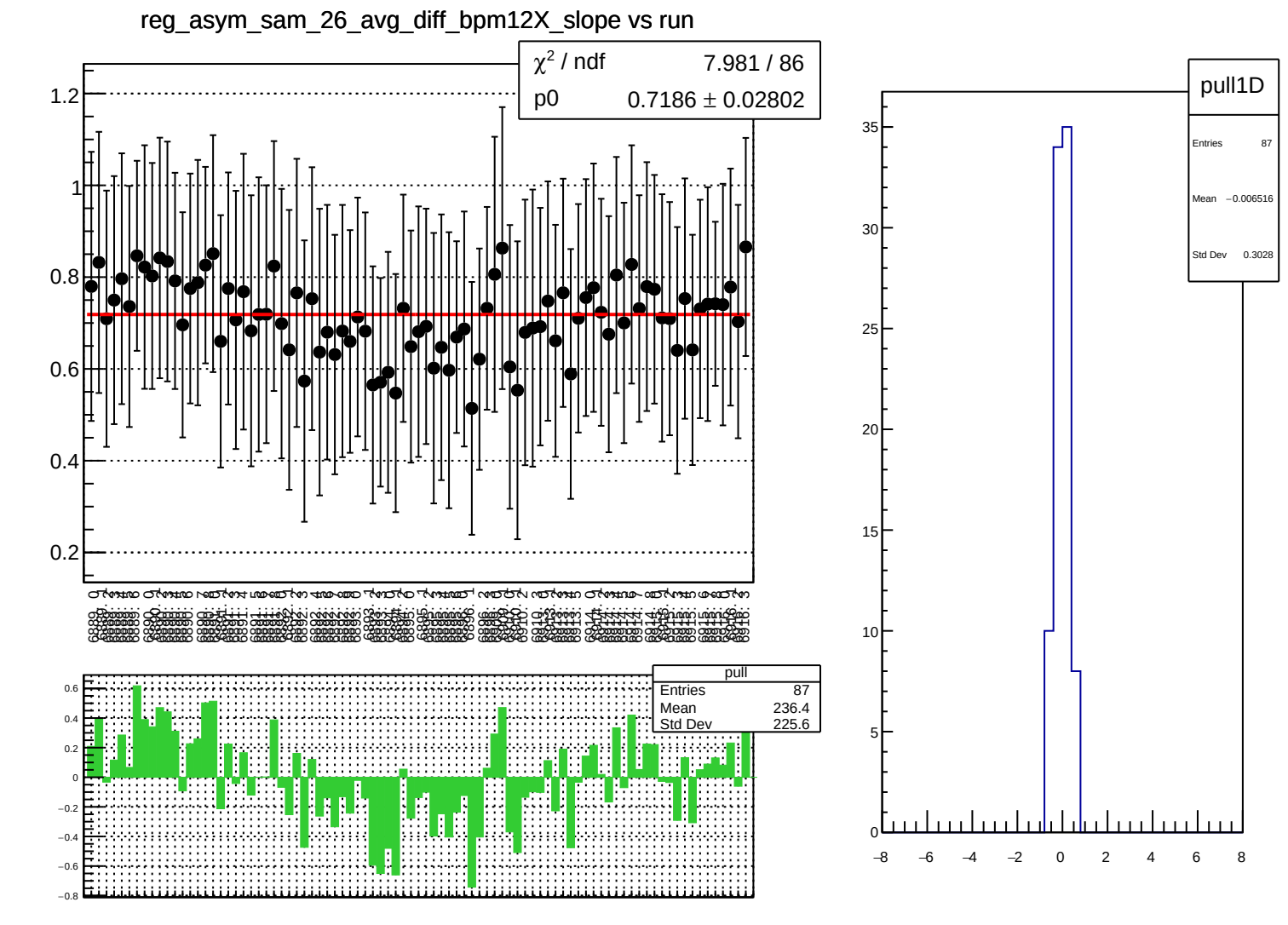

pull1D
Entries 87
Mean −0.07557
Std Dev 0.7835

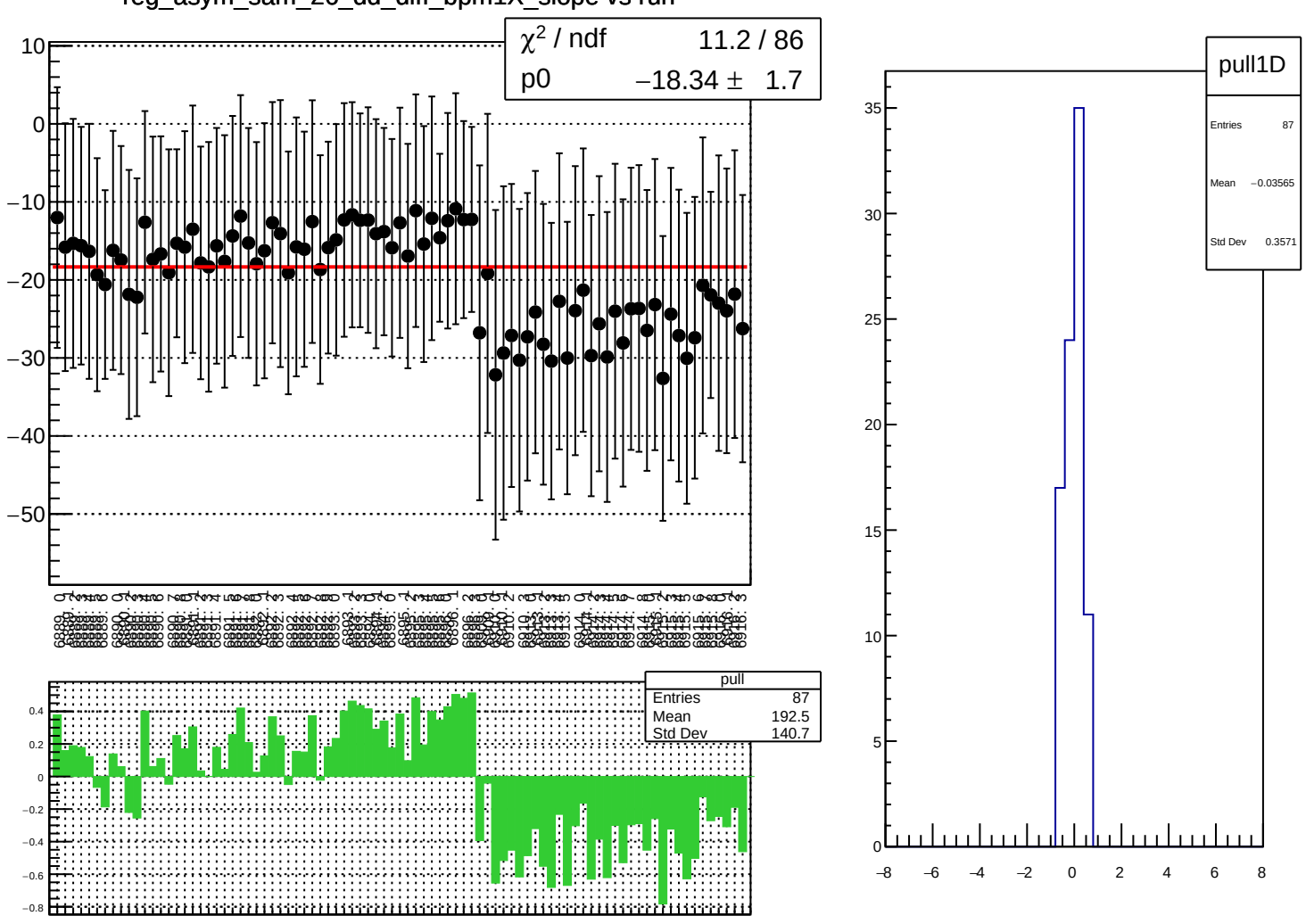

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.679 / 86
p0 4.341 ± 0.538
pull
Entries 87
Mean −139.5
Std Dev 162.7
pull1D
Entries 87
Mean −0.006373
Std Dev 0.3158

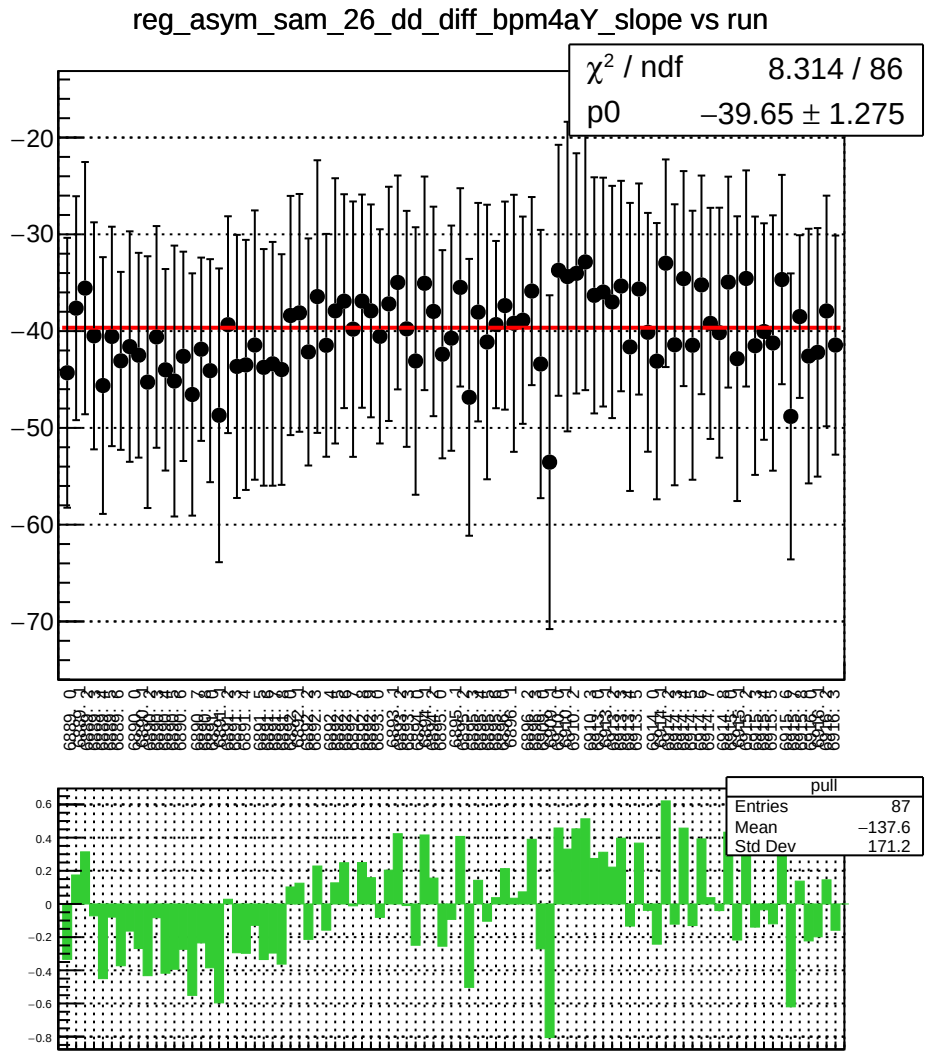

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 68.76 / 86
p0 −62.16 ± 0.688
pull
Entries 87
Mean 290.9
Std Dev 238.3

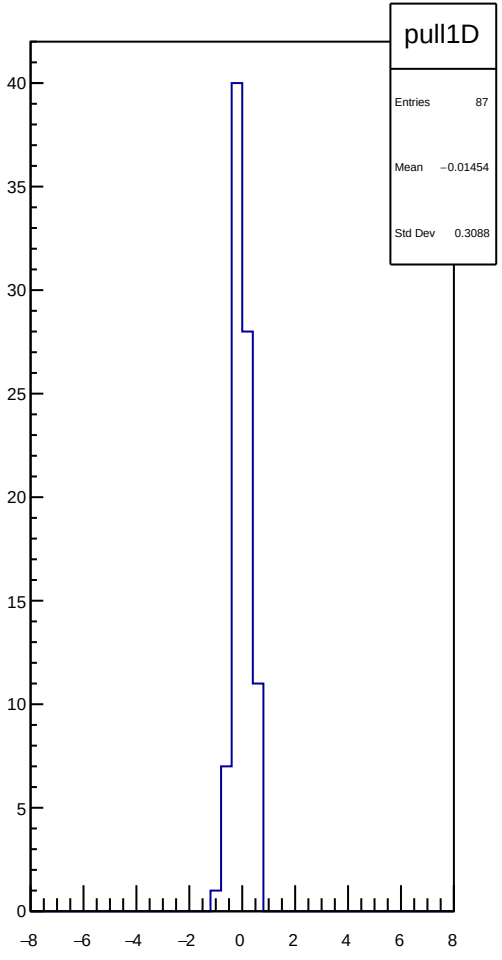

pull1D
Entries 87
Mean 0.05497
Std Dev 0.8873

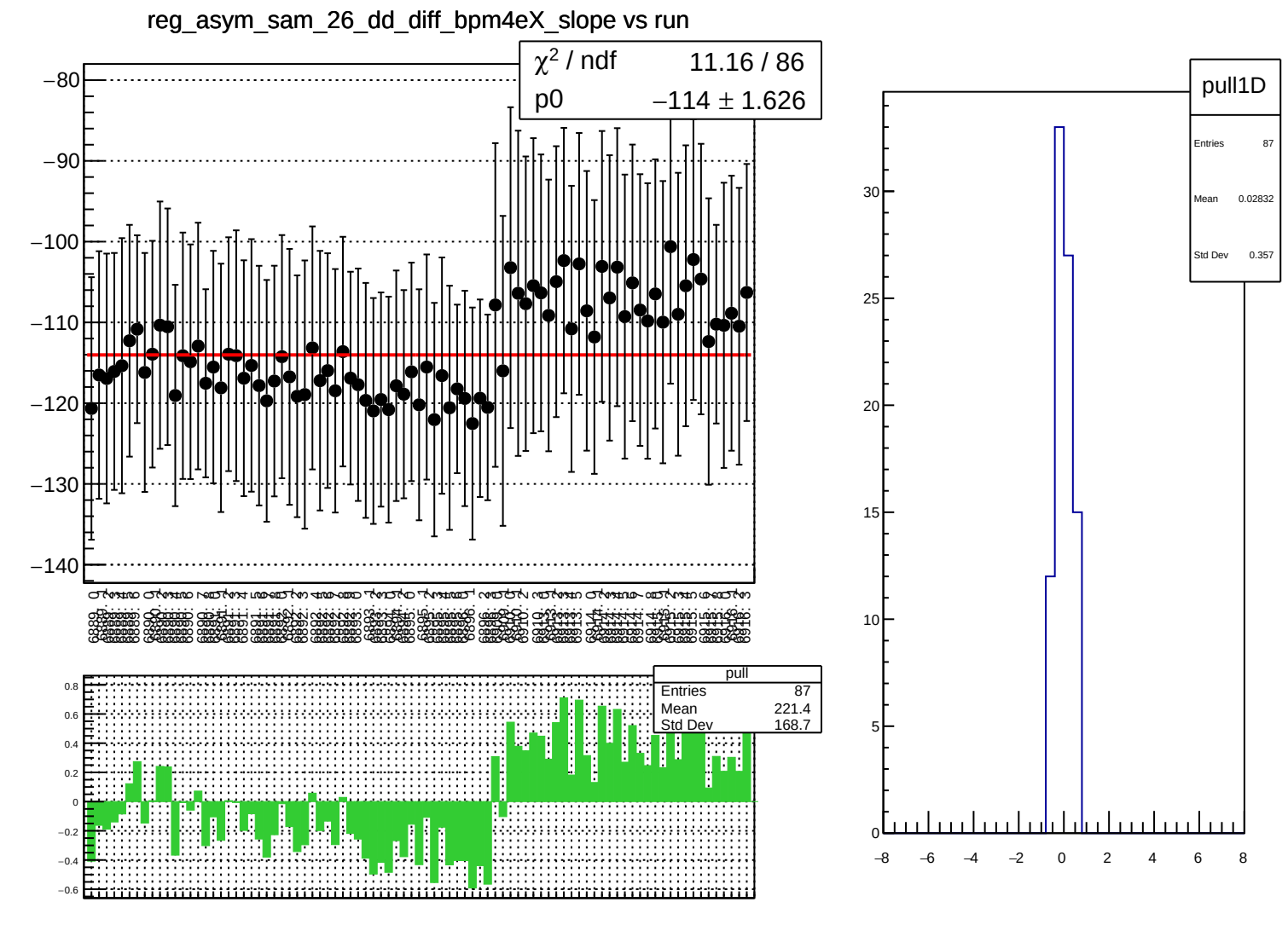

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.58 / 86
p0 −39.75 ± 0.6359
pull
Entries 87
Mean 269.8
Std Dev 237.3
pull1D
Entries 87
Mean −0.008904
Std Dev 0.4365

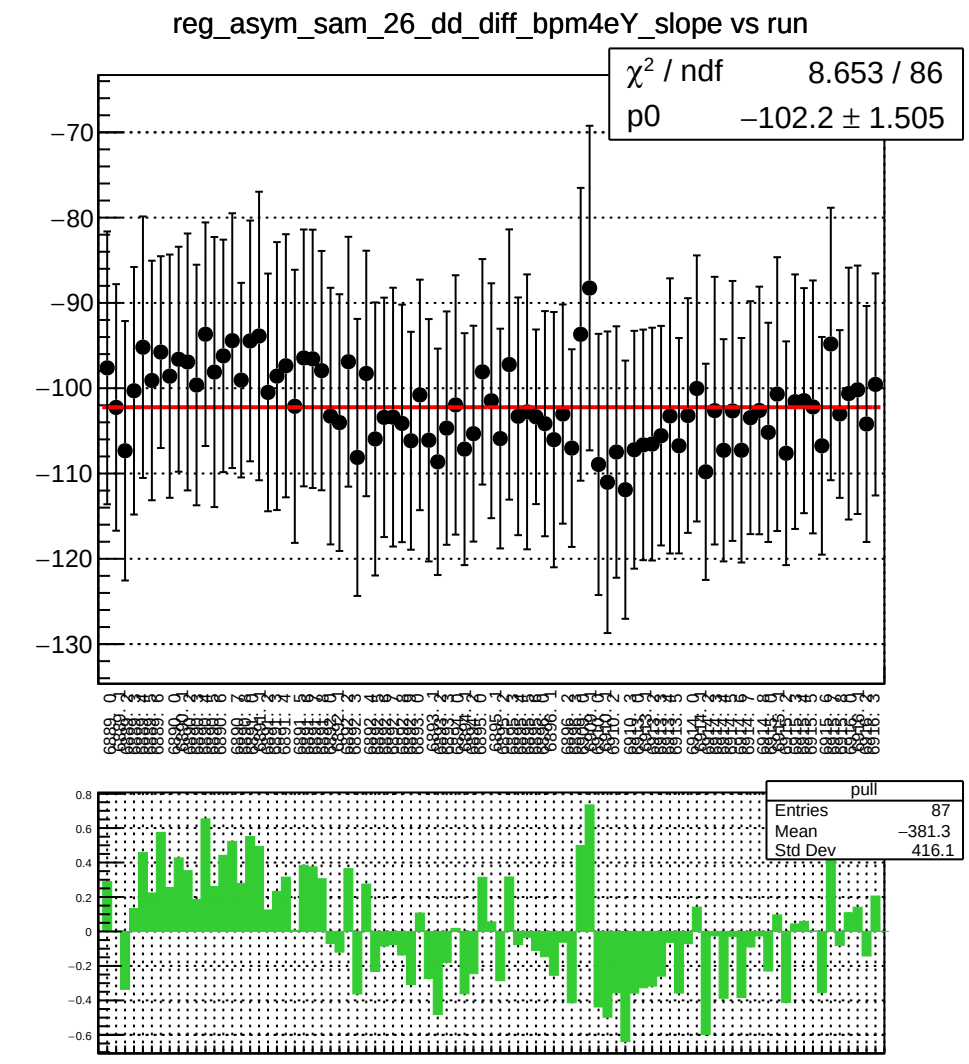

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 7.981 / 86
p0 0.7186 ± 0.02802
pull
Entries 87
Mean 236.4
Std Dev 225.6
pull1D
Entries 87
Mean −0.006516
Std Dev 0.3028

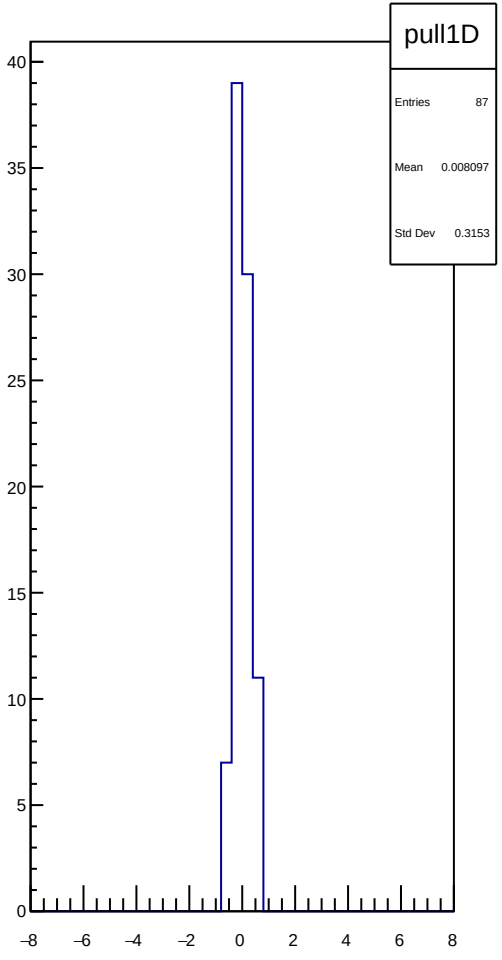

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 11.2 / 86
p0 −18.34 ± 1.7
pull
Entries 87
Mean 192.5
Std Dev 140.7
pull1D
Entries 87
Mean −0.03565
Std Dev 0.3571

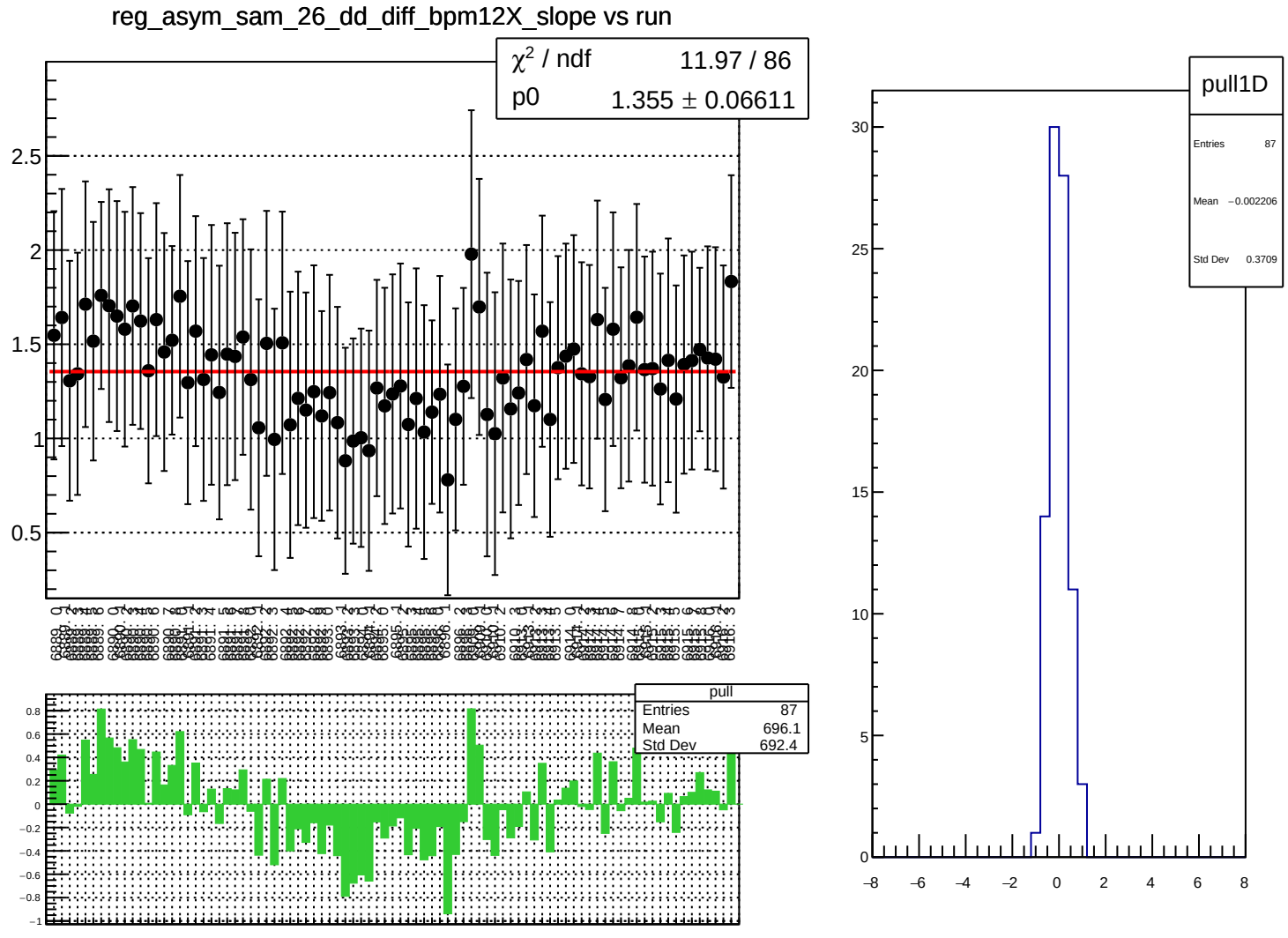

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.314 / 86
p0 −39.65 ± 1.275
pull
Entries 87
Mean −137.6
Std Dev 171.2

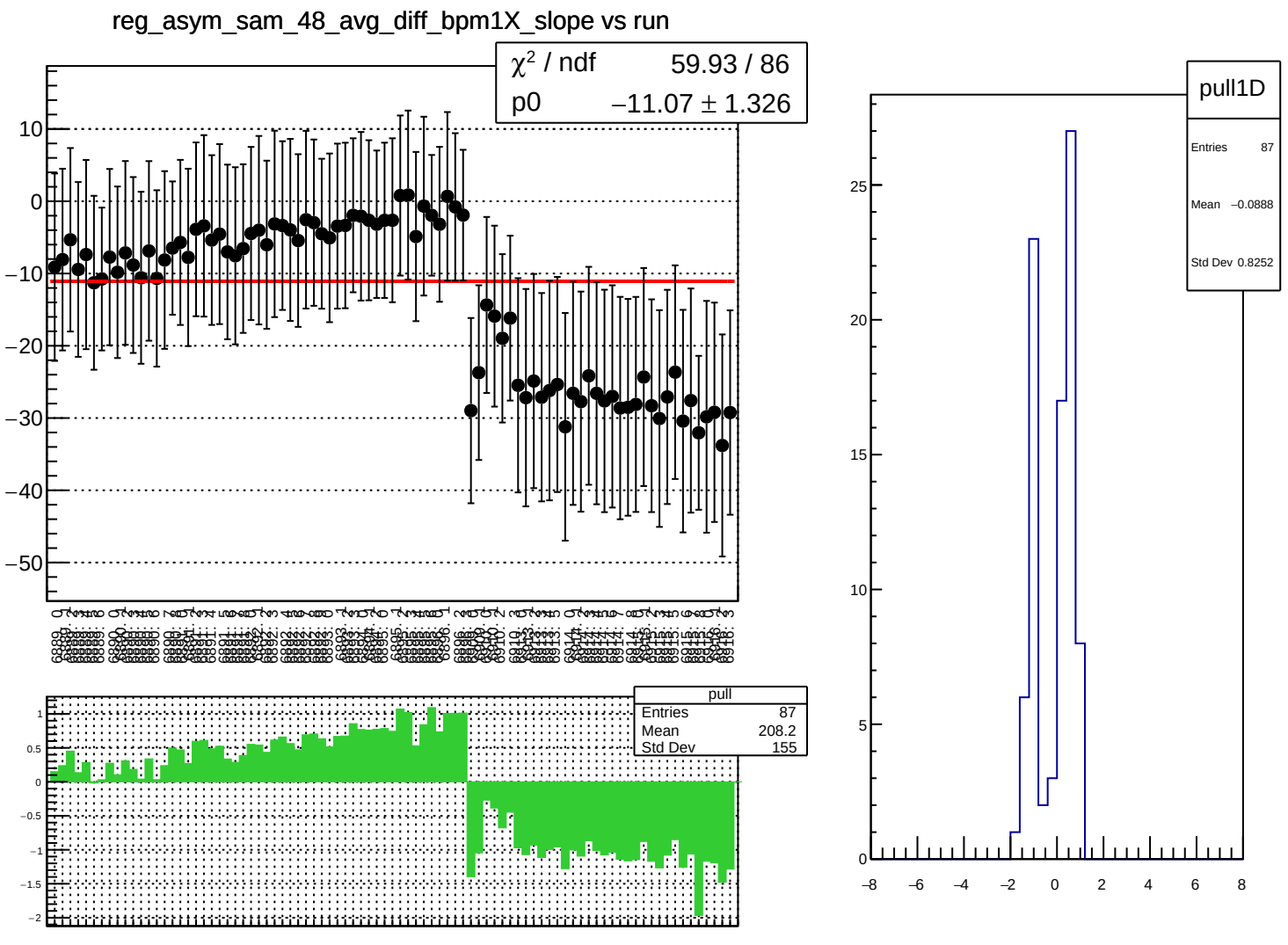

pull1D
Entries 87
Mean −0.01454
Std Dev 0.3088

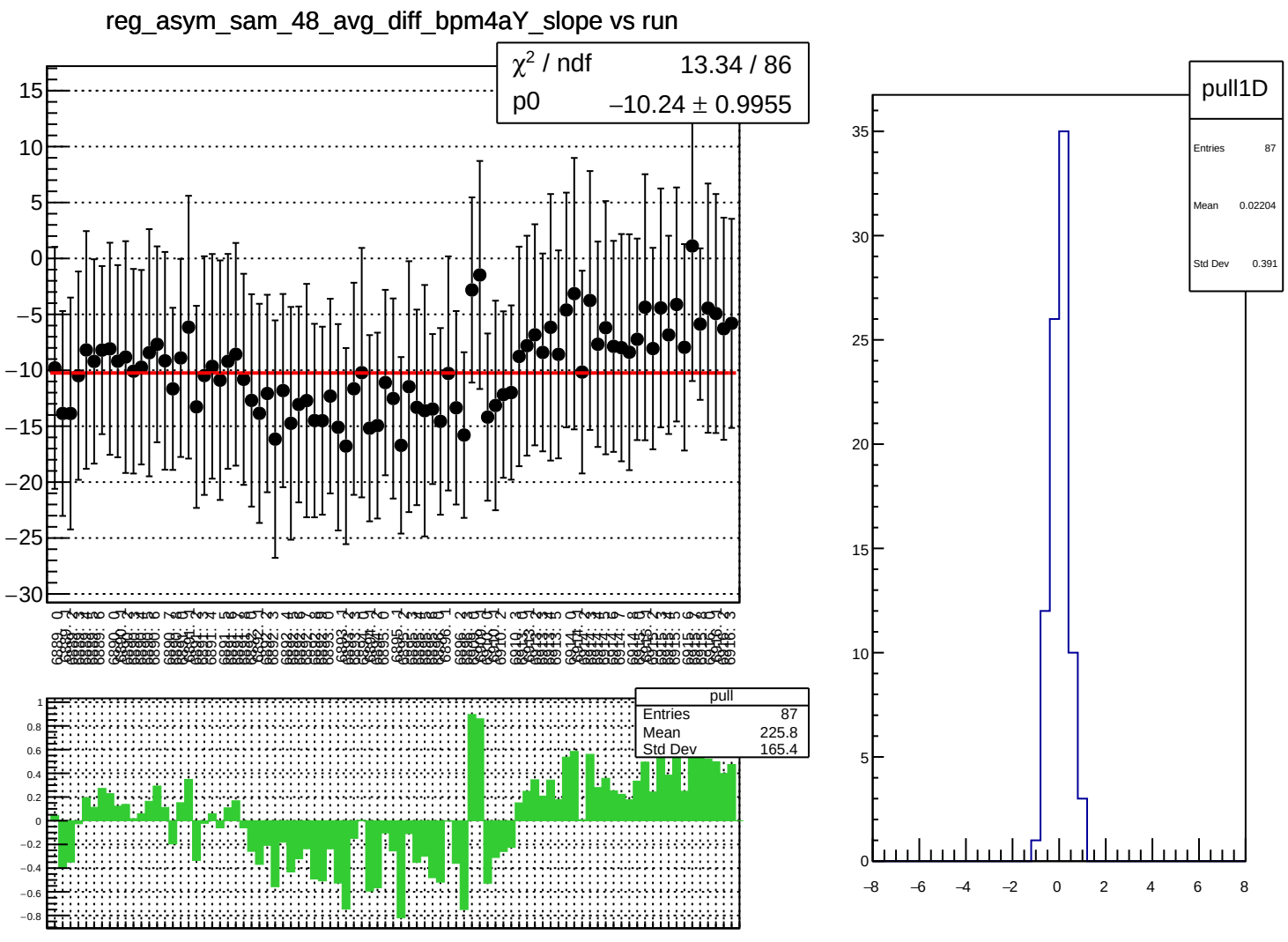

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.16 / 86
p0 −114 ± 1.626
−80
−90
−100
−110
−120
−130
−140
pull
Entries 87
Mean 221.4
Std Dev 168.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 87
Mean 0.02832
Std Dev 0.357
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

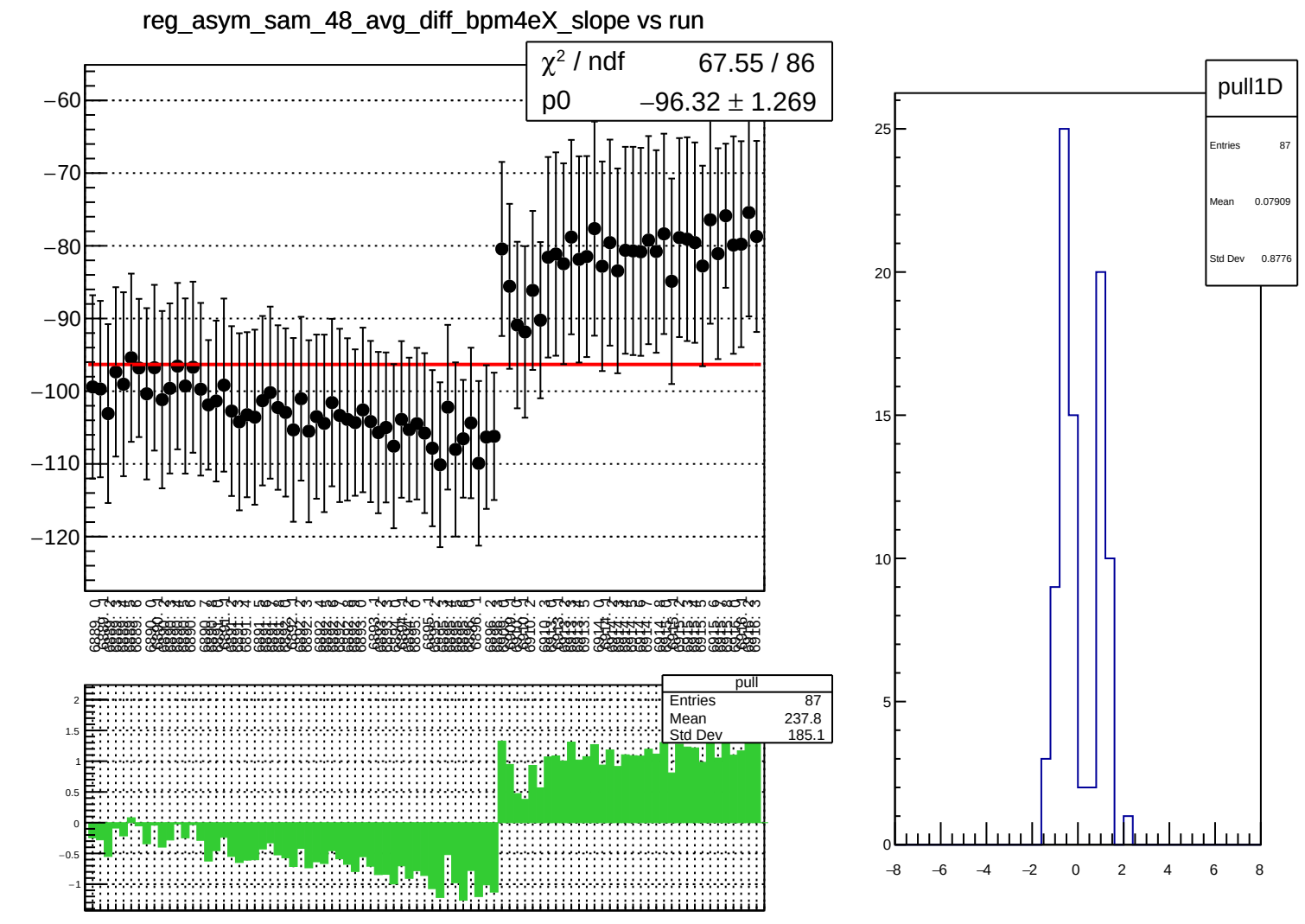

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.653 / 86
p0 −102.2 ± 1.505
pull
Entries 87
Mean −381.3
Std Dev 416.1

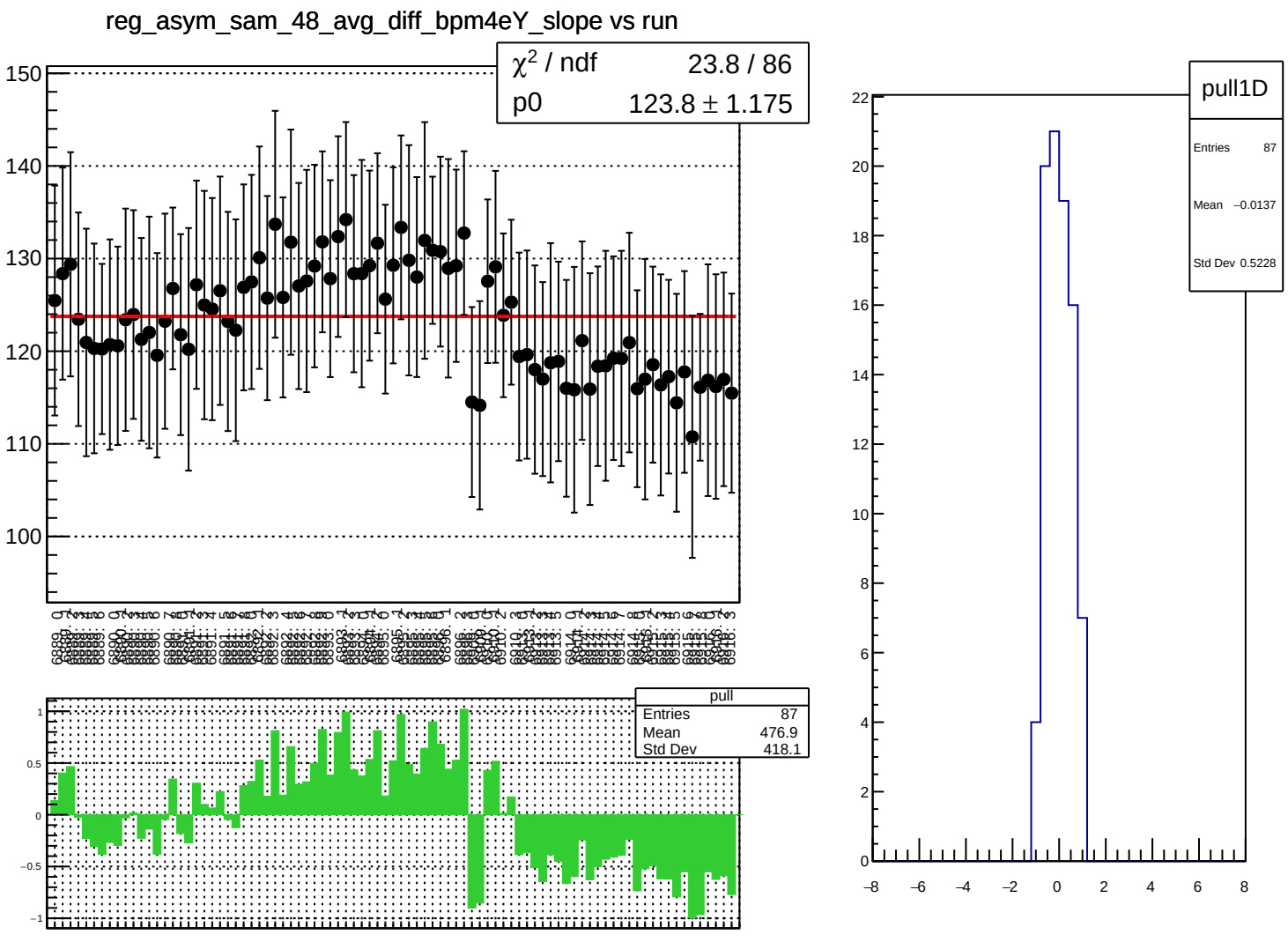

pull1D
Entries 87
Mean 0.008097
Std Dev 0.3153

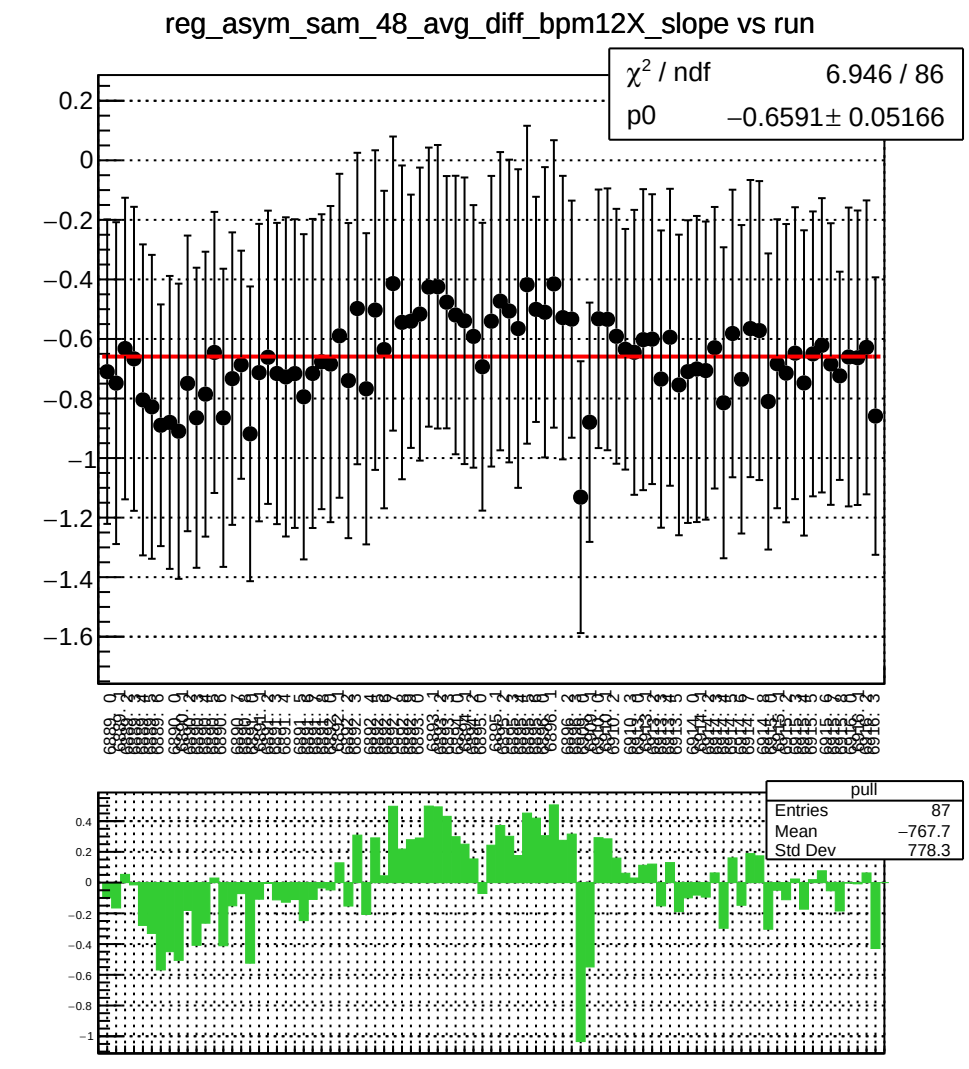

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 11.97 / 86
p0 1.355 ± 0.06611
pull
Entries 87
Mean 696.1
Std Dev 692.4
pull1D
Entries 87
Mean −0.002206
Std Dev 0.3709

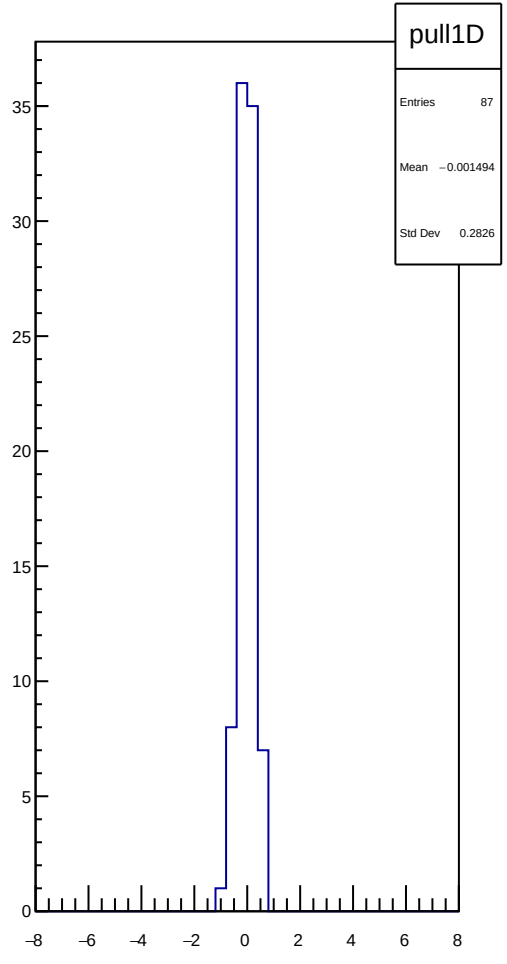

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 59.93 / 86
p0 −11.07 ± 1.326
pull
Entries 87
Mean 208.2
Std Dev 155
pull1D
Entries 87
Mean −0.0888
Std Dev 0.8252

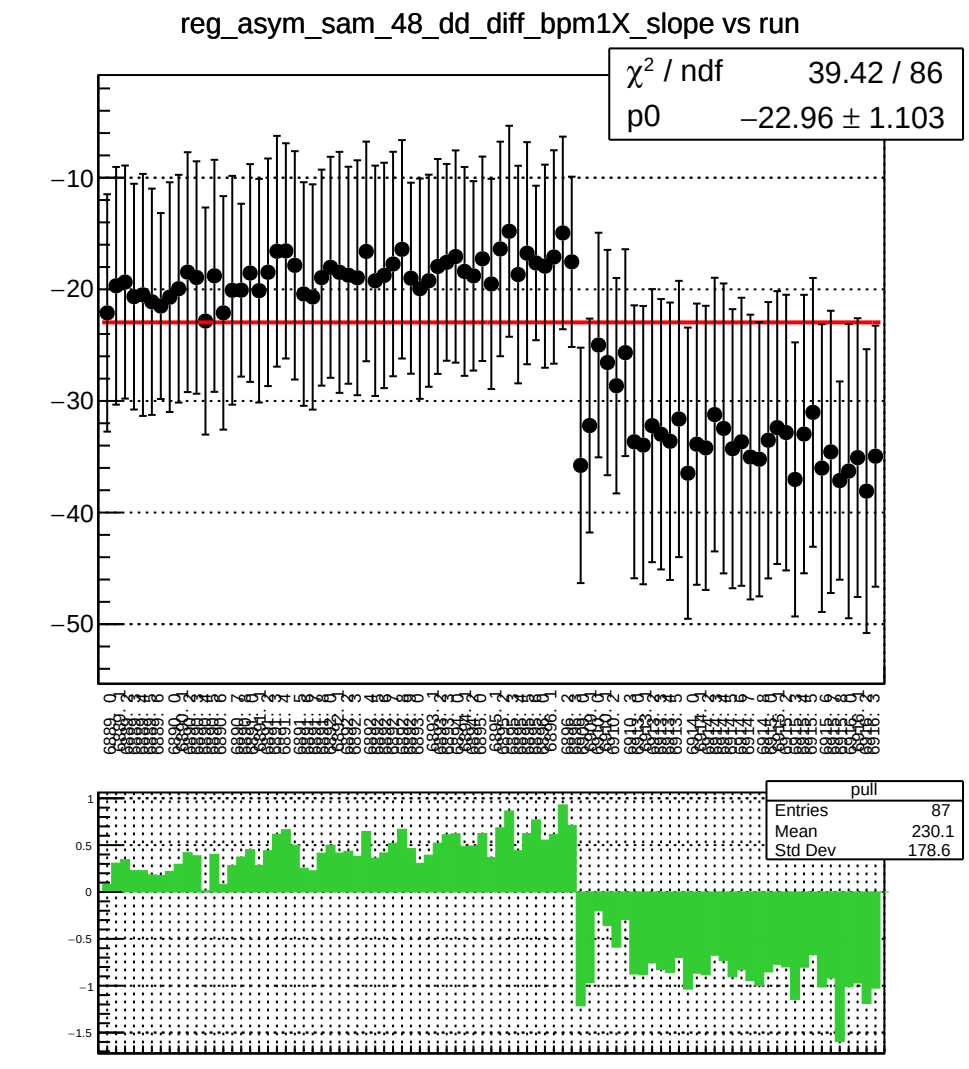

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.34 / 86
p0 −10.24 ± 0.9955
pull
Entries 87
Mean 225.8
Std Dev 165.4
pull1D
Entries 87
Mean 0.02204
Std Dev 0.391

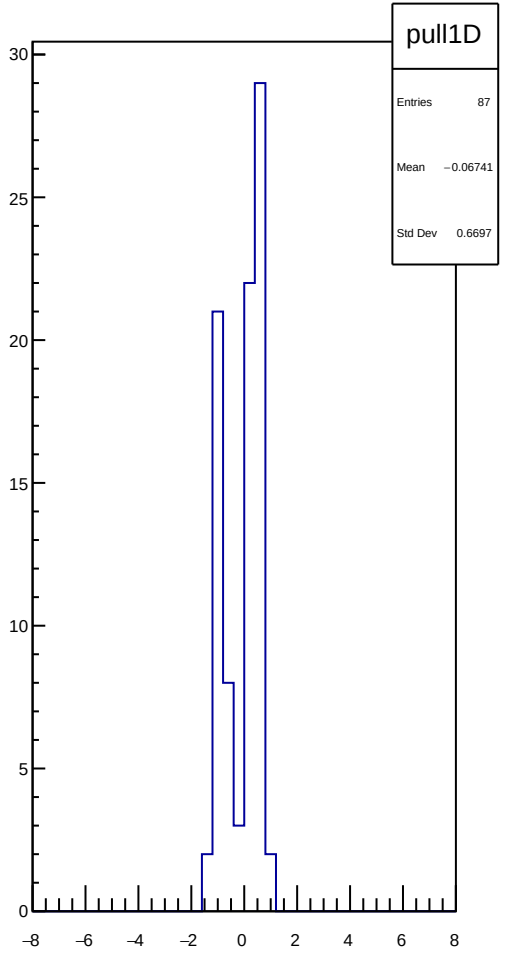

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 67.55 / 86
p0 −96.32 ± 1.269
pull
Entries 87
Mean 237.8
Std Dev 185.1
pull1D
Entries 87
Mean 0.07909
Std Dev 0.8776

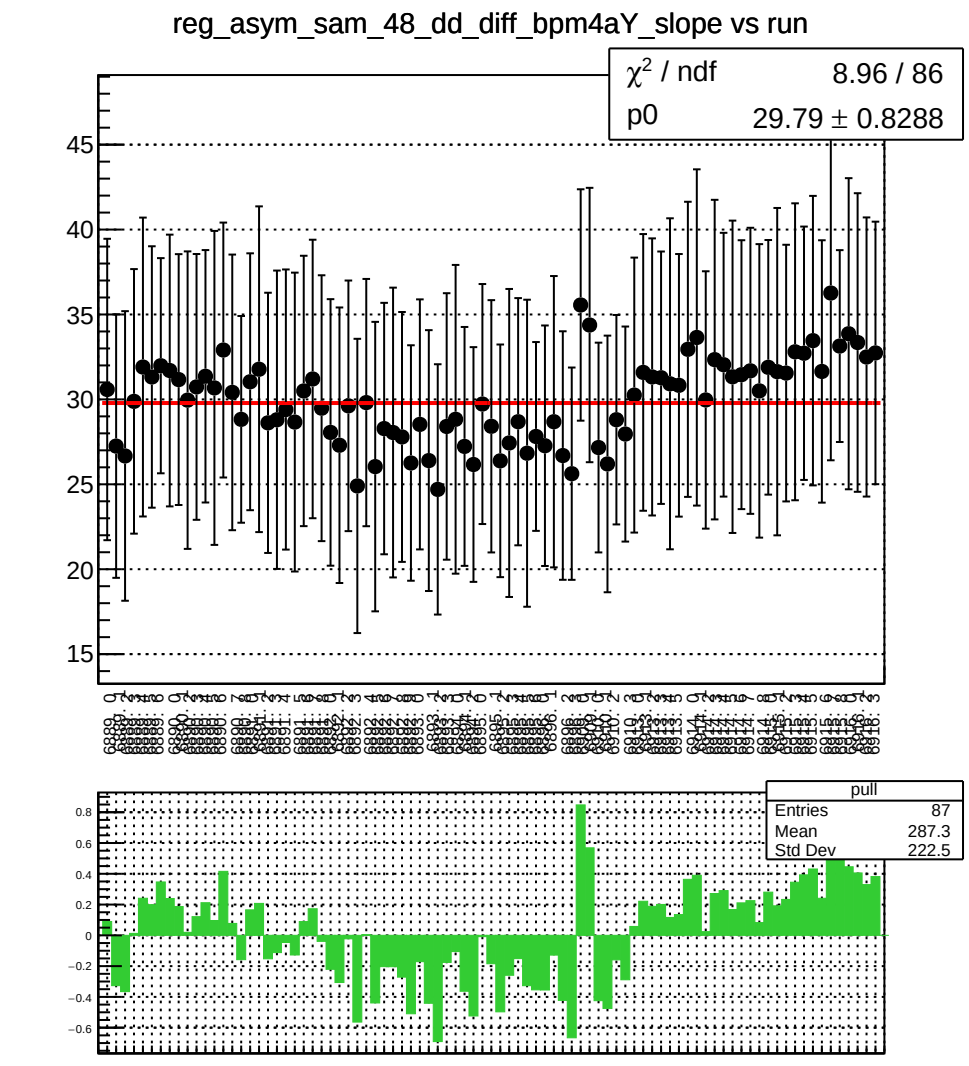

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.8 / 86
p0 123.8 ± 1.175
150
140
130
120
110
100
pull
Entries 87
Mean 476.9
Std Dev 418.1
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean −0.0137
Std Dev 0.5228
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

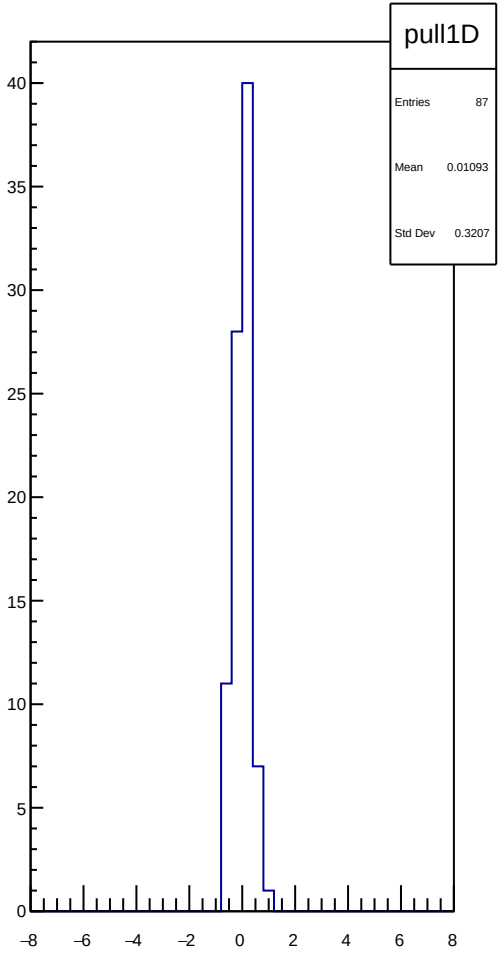

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 6.946 / 86
p0 −0.6591 ± 0.05166
pull
Entries 87
Mean −767.7
Std Dev 778.3

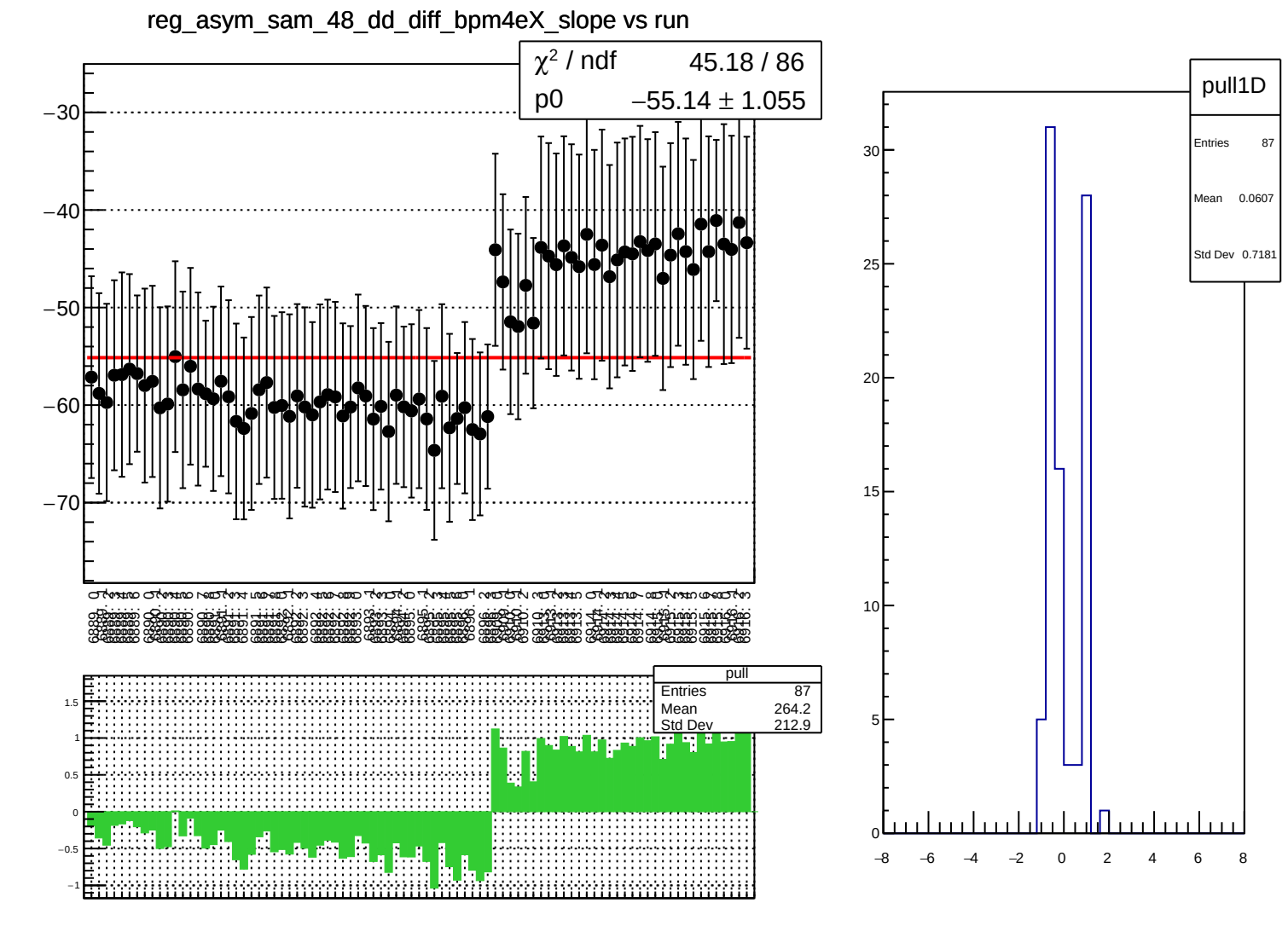

pull1D
Entries 87
Mean −0.001494
Std Dev 0.2826

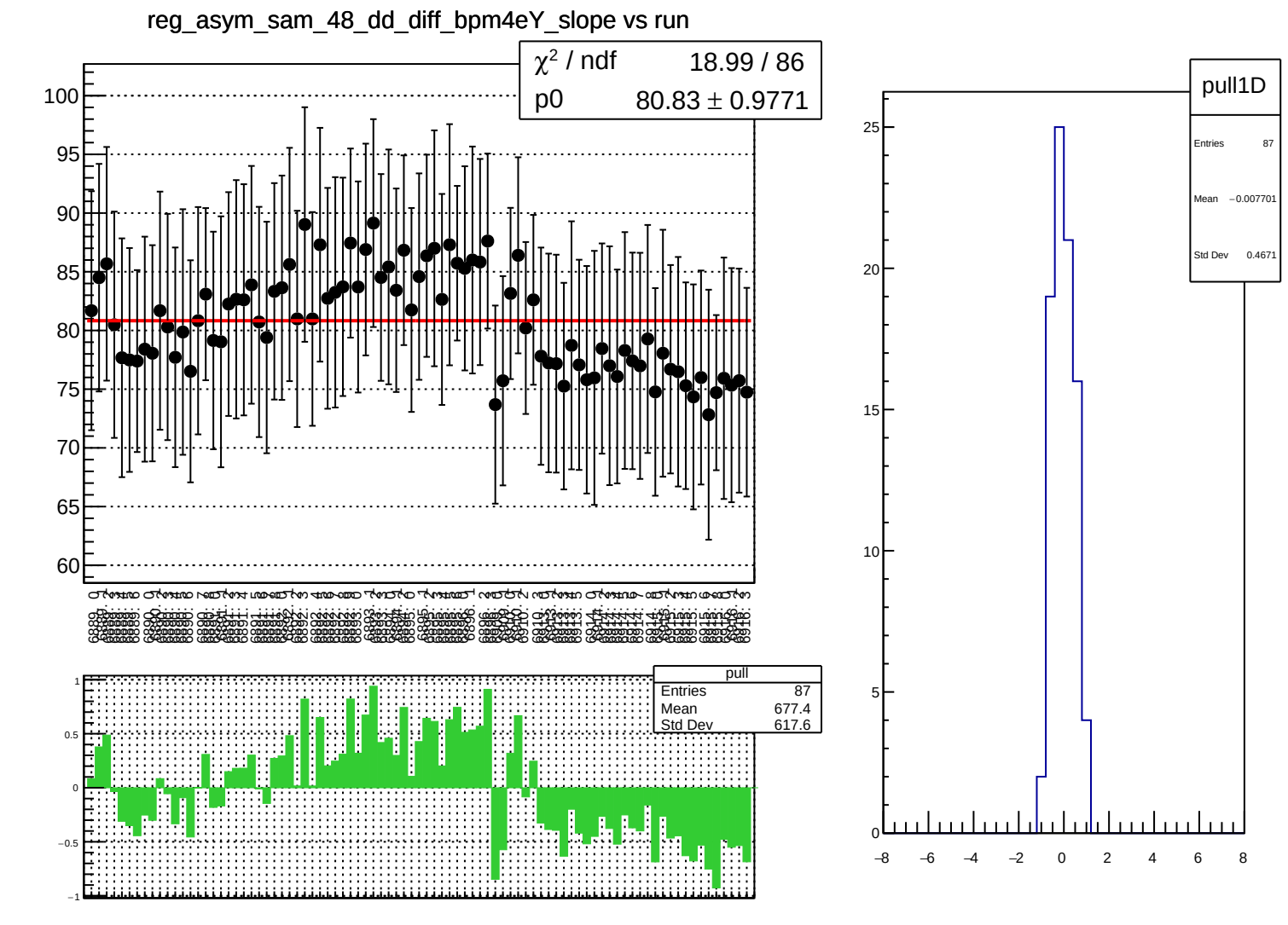

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 39.42 / 86
p0 −22.96 ± 1.103
−10
−20
−30
−40
−50
pull
Entries 87
Mean 230.1
Std Dev 178.6
1
0.5
0
−0.5
−1
−1.5

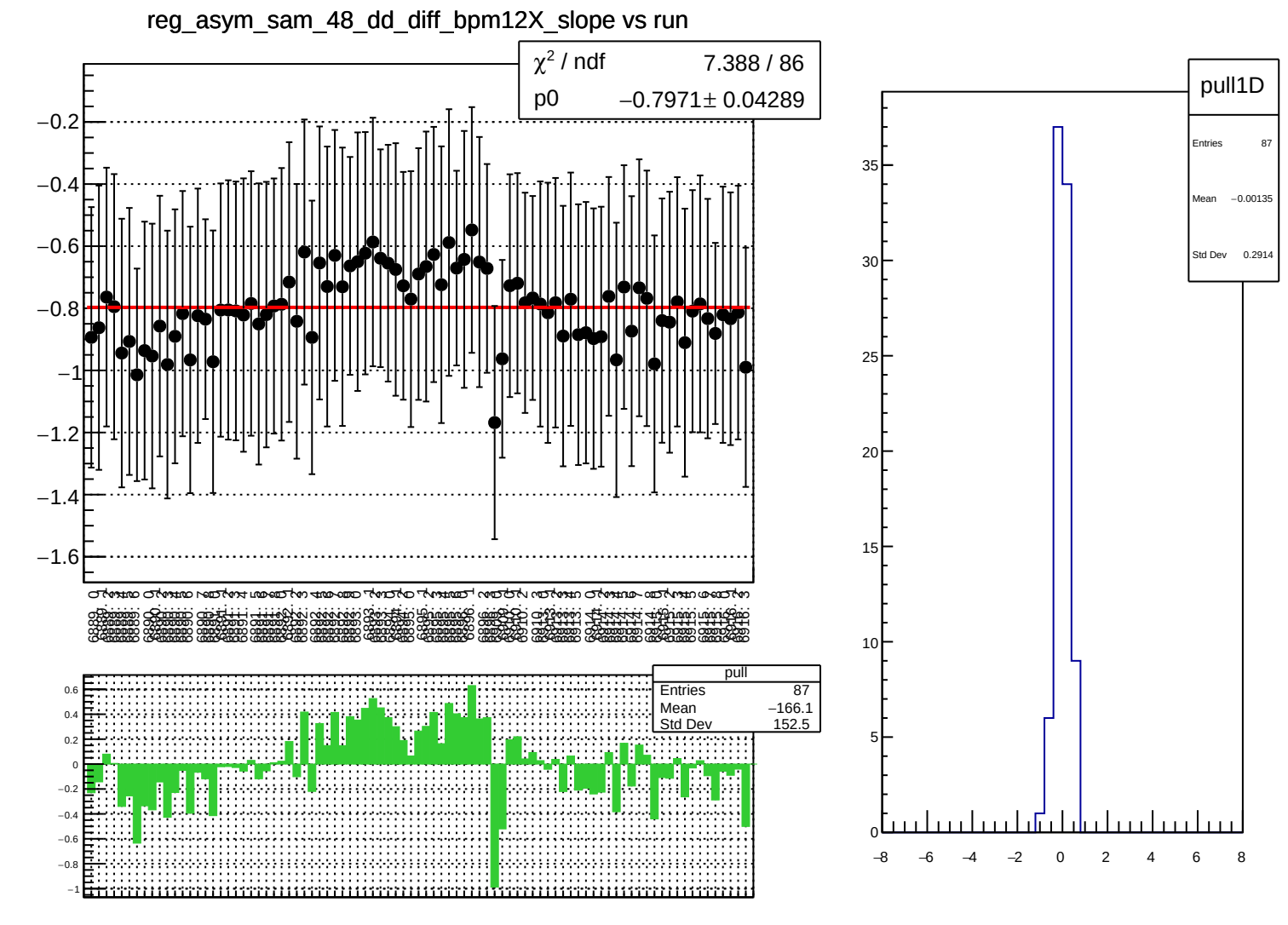

pull1D
Entries 87
Mean −0.06741
Std Dev 0.6697
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

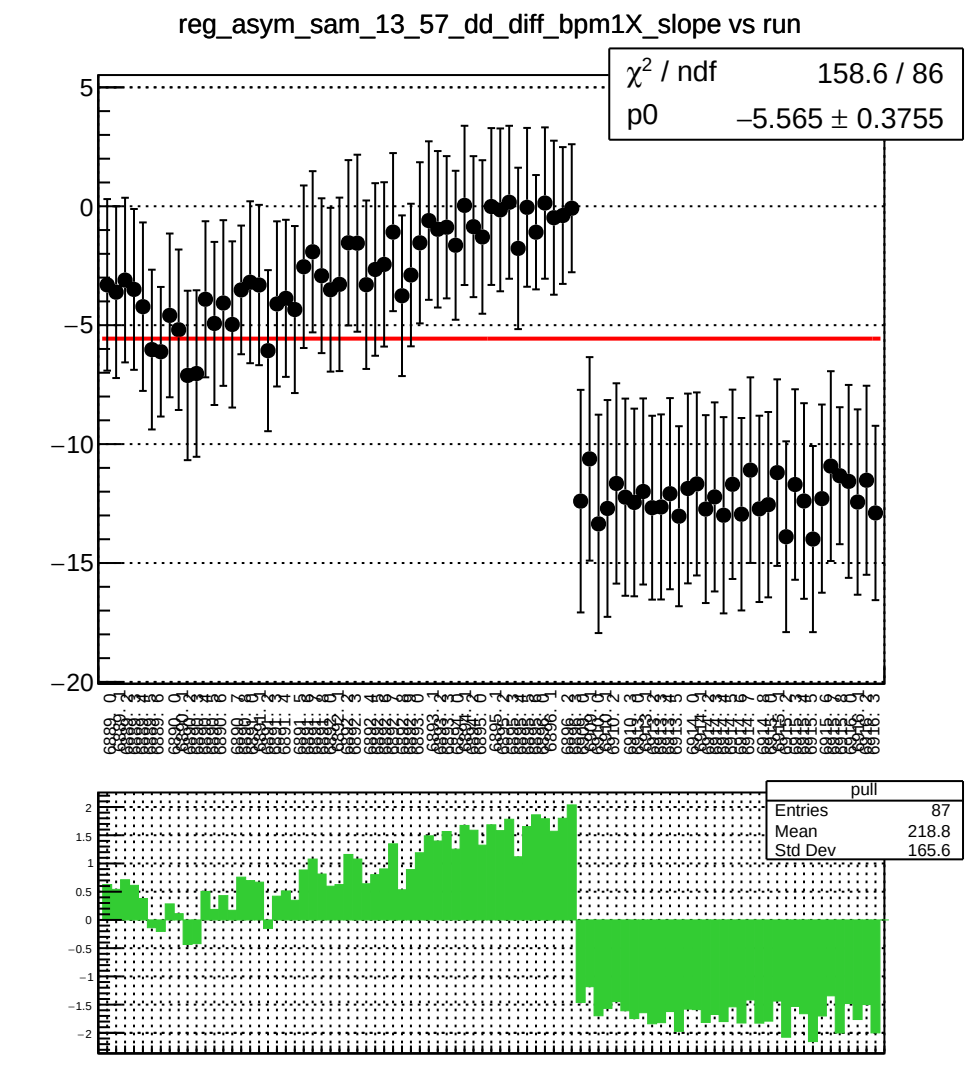

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.96 / 86
p0 29.79 ± 0.8288
pull
Entries 87
Mean 287.3
Std Dev 222.5

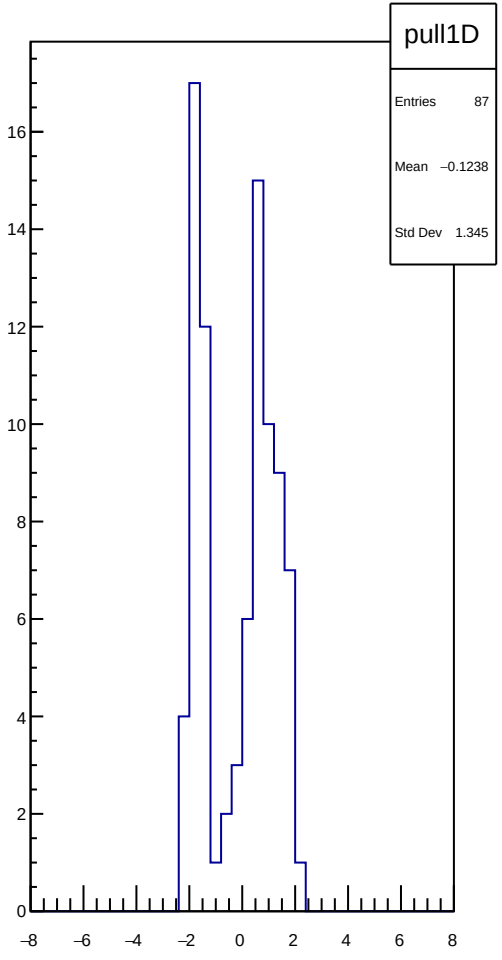

pull1D
Entries 87
Mean 0.01093
Std Dev 0.3207

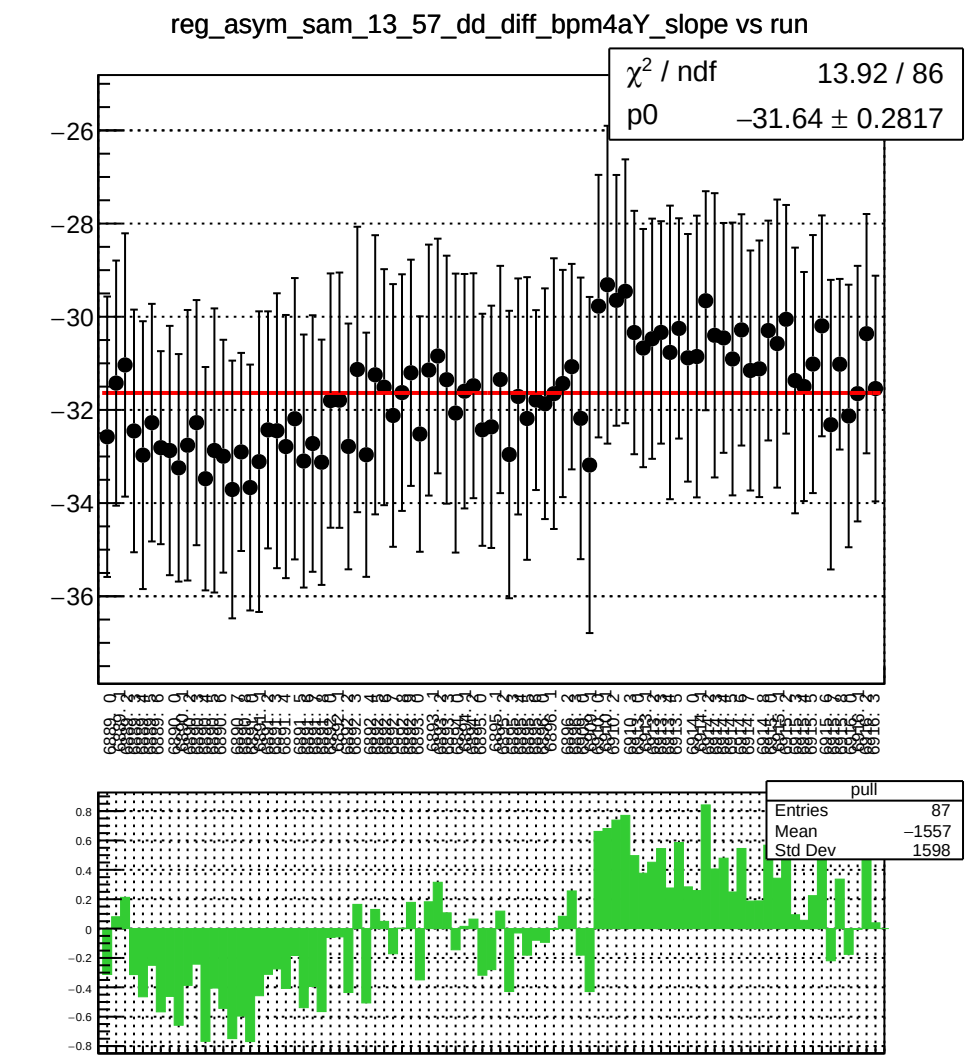

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.18 / 86
p0 −55.14 ± 1.055
−30
−40
−50
−60
−70
pull
Entries 87
Mean 264.2
Std Dev 212.9
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.0607
Std Dev 0.7181
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

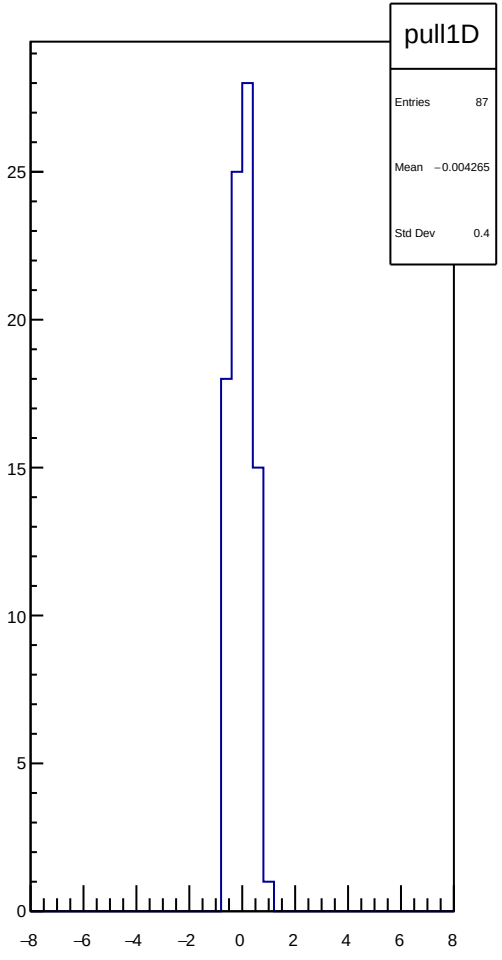

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.99 / 86
p0 80.83 ± 0.9771
pull
Entries 87
Mean 677.4
Std Dev 617.6
pull1D
Entries 87
Mean −0.007701
Std Dev 0.4671

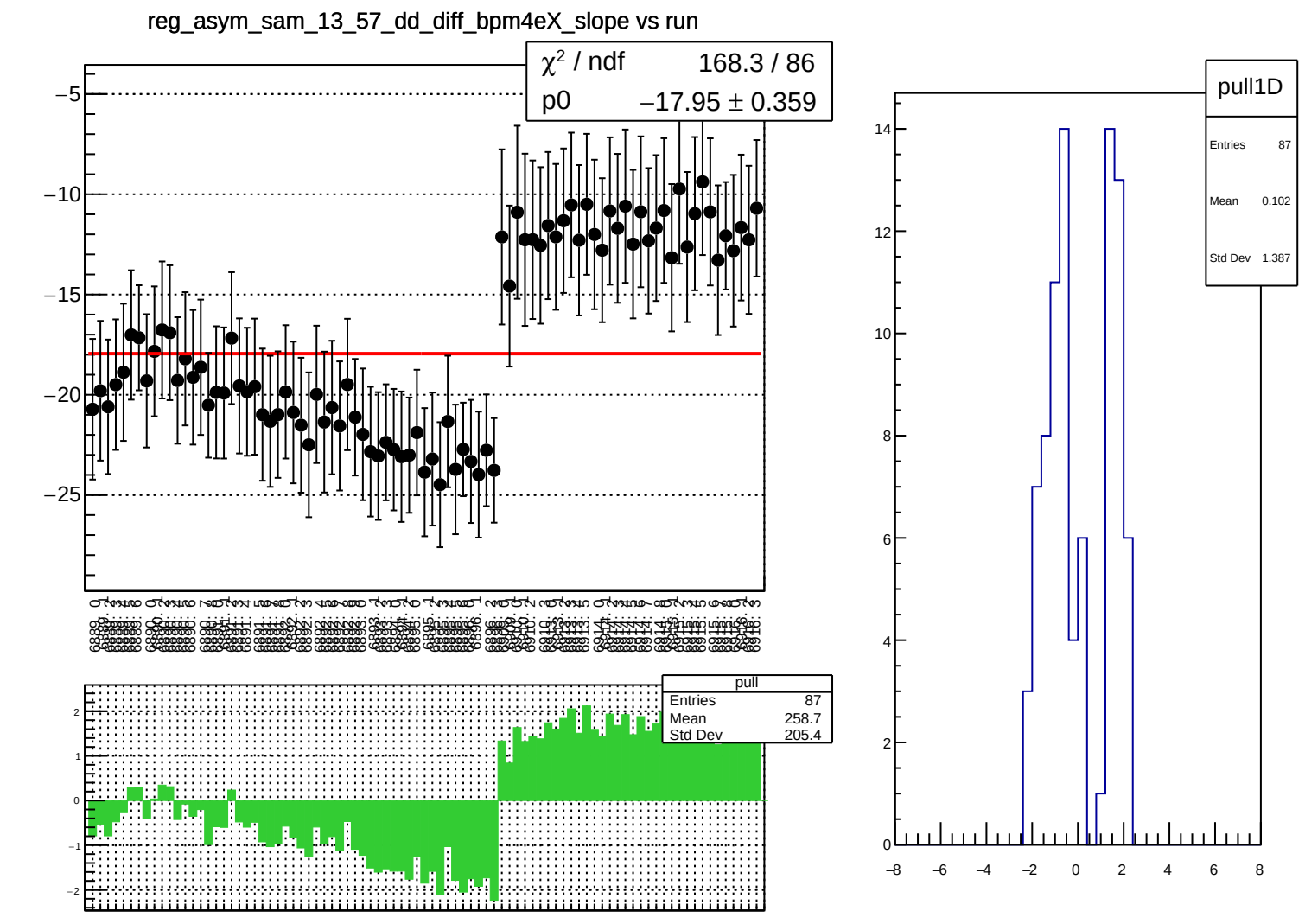

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 7.388 / 86
p0 −0.7971± 0.04289
pull
Entries 87
Mean −166.1
Std Dev 152.5
pull1D
Entries 87
Mean −0.00135
Std Dev 0.2914

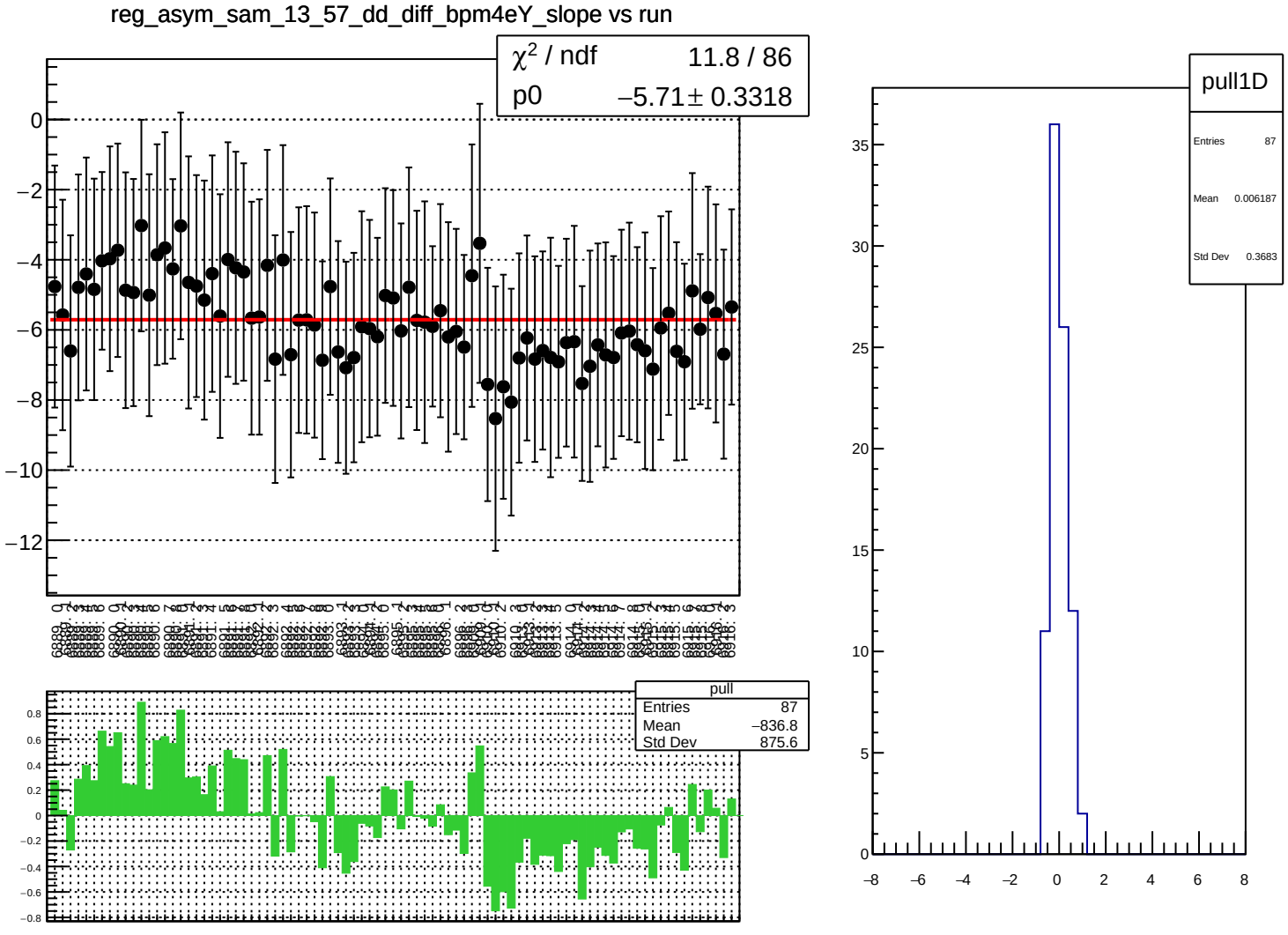

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 158.6 / 86
p0 −5.565 ± 0.3755
pull
Entries 87
Mean 218.8
Std Dev 165.6

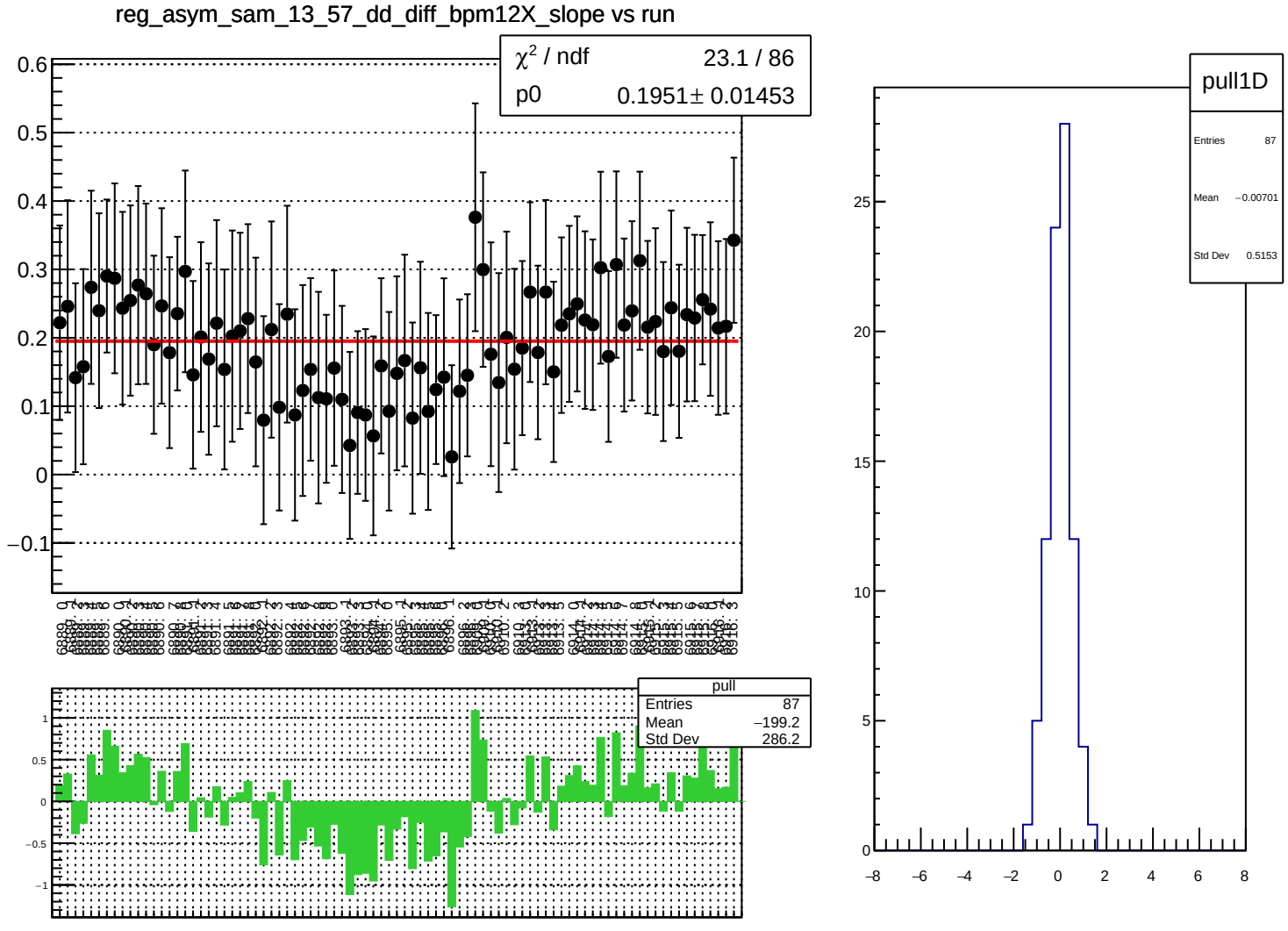

pull1D
Entries 87
Mean −0.1238
Std Dev 1.345

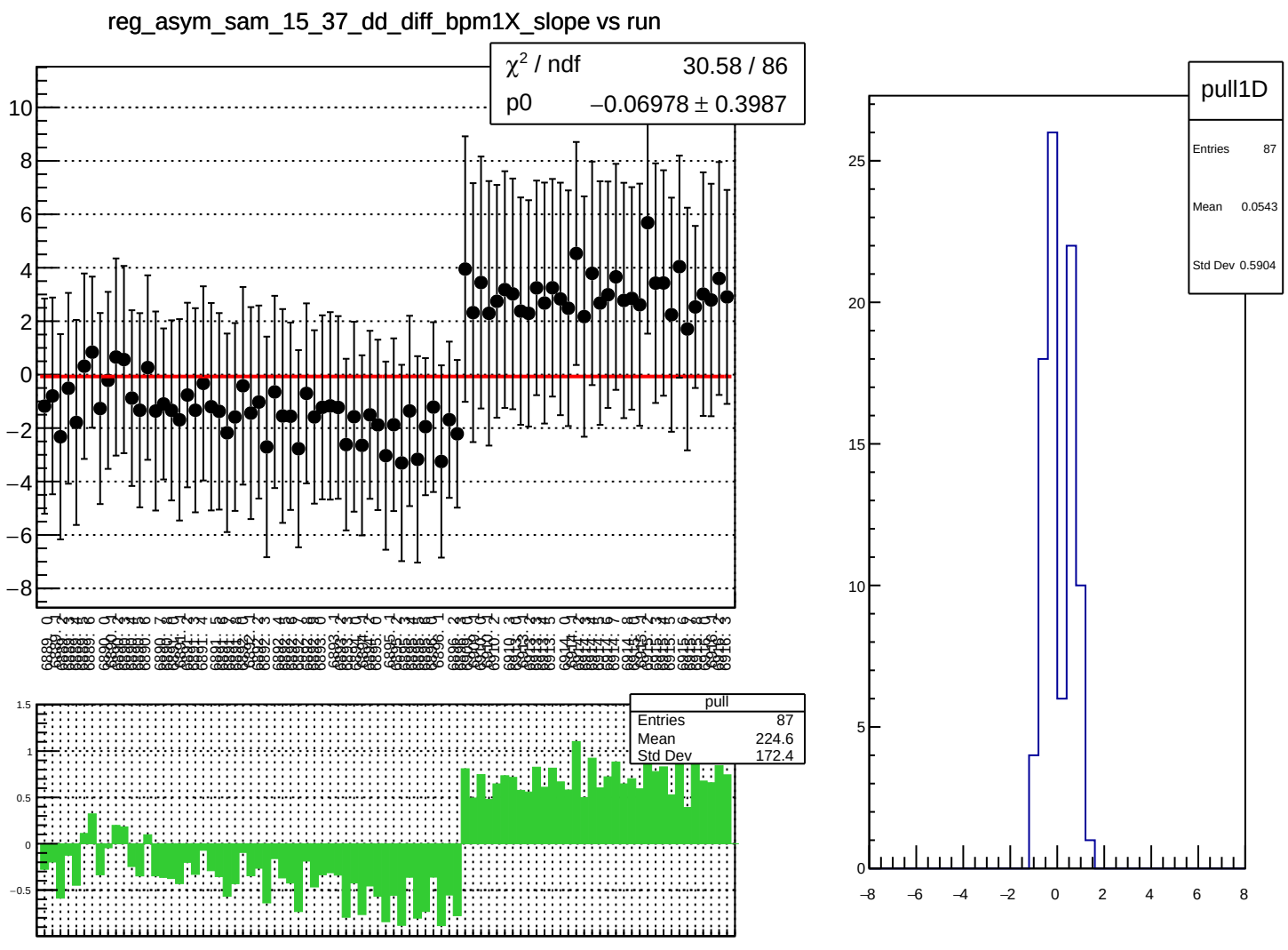

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.92 / 86
p0 −31.64 ± 0.2817
pull
Entries 87
Mean −1557
Std Dev 1598

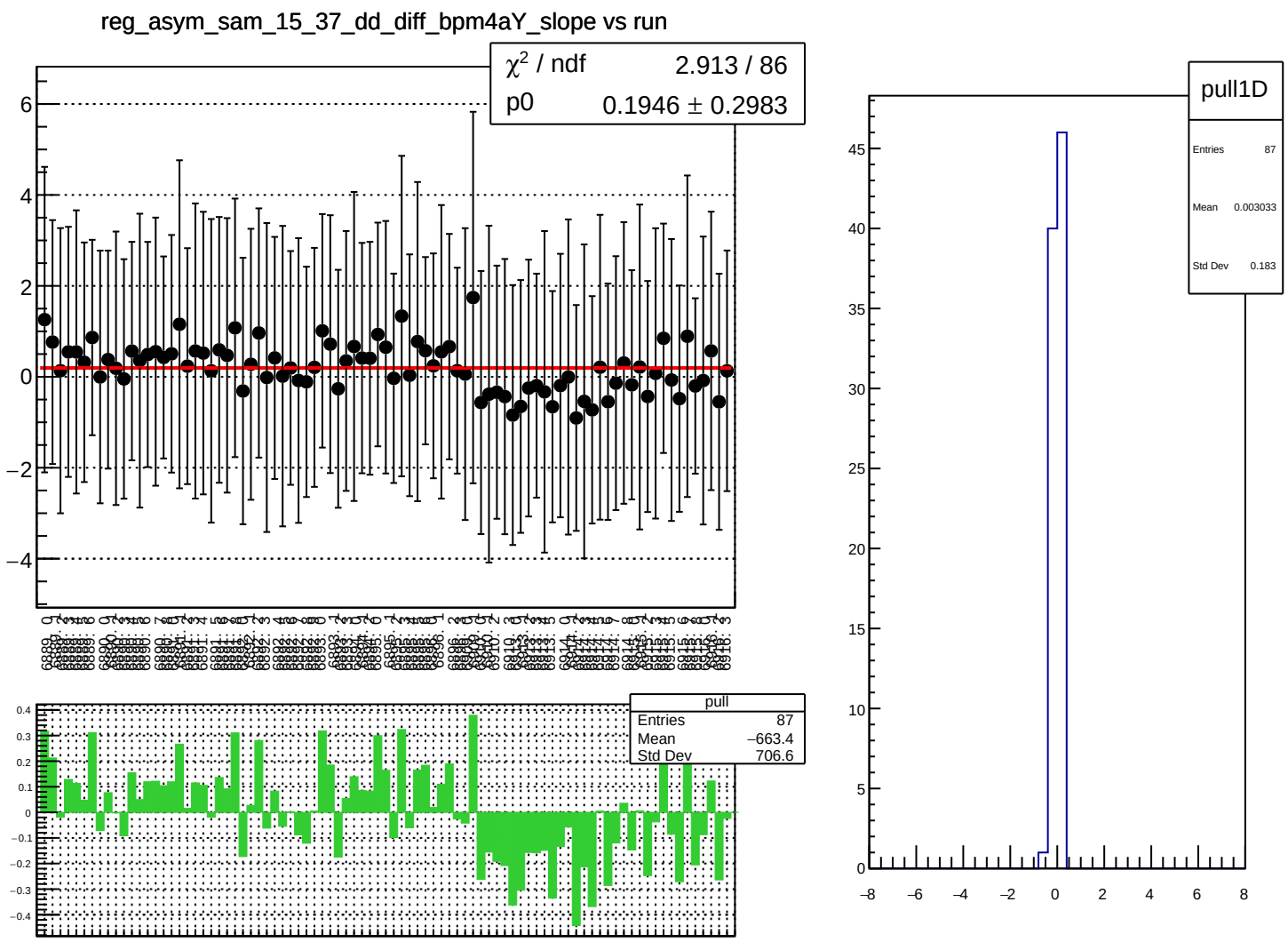

pull1D
Entries 87
Mean −0.004265
Std Dev 0.4

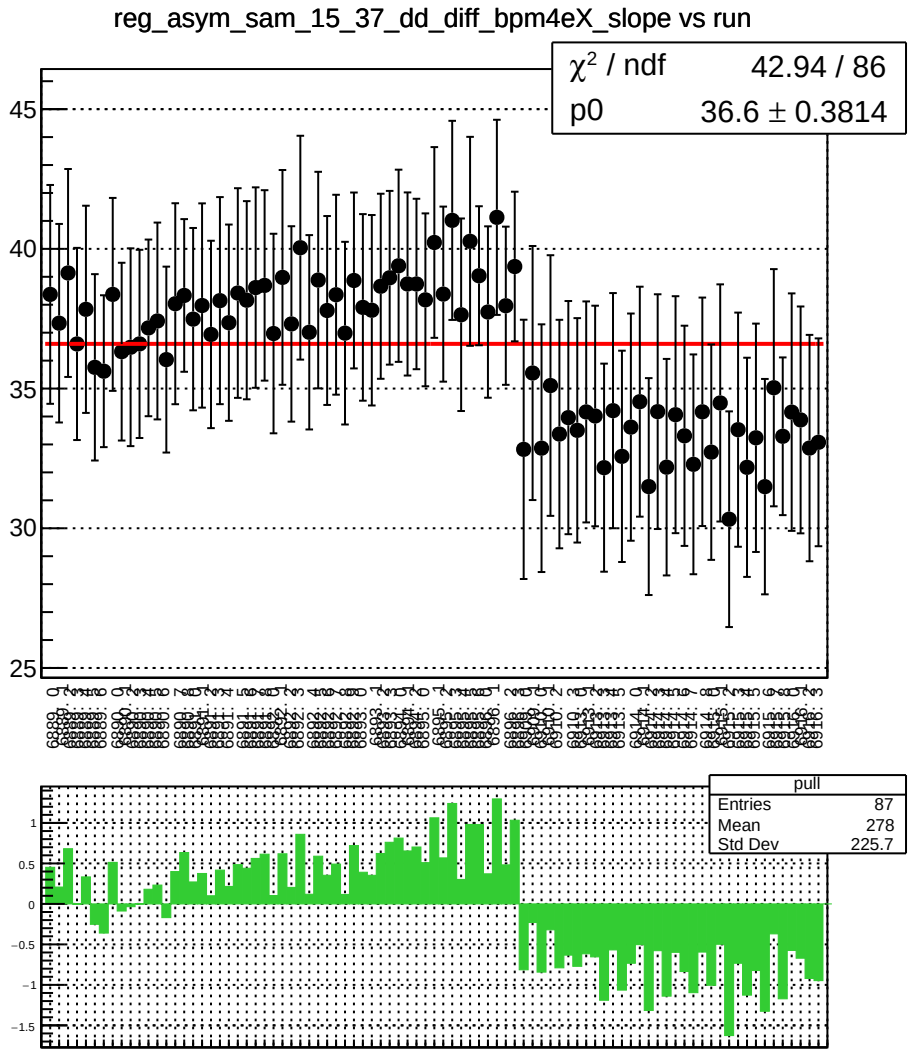

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 168.3 / 86
p0 −17.95 ± 0.359
pull
Entries 87
Mean 258.7
Std Dev 205.4
pull1D
Entries 87
Mean 0.102
Std Dev 1.387

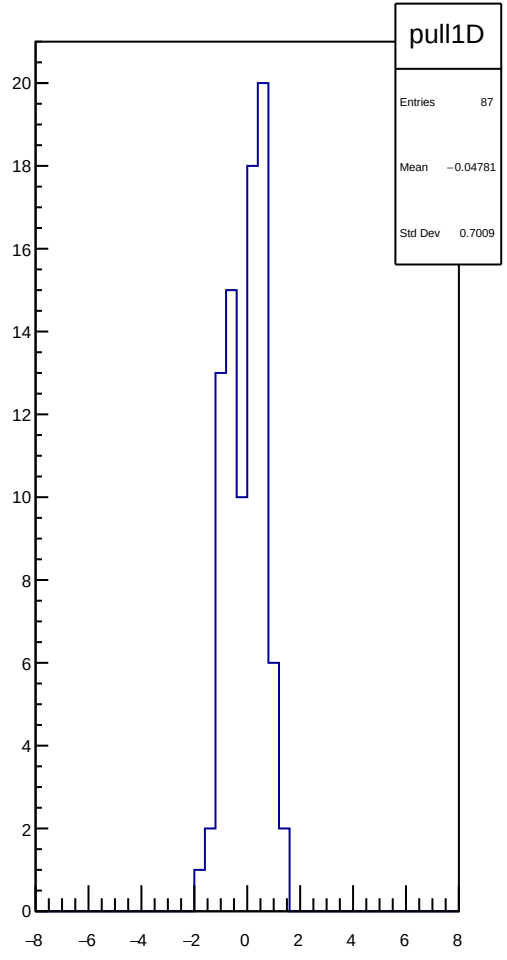

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.8 / 86
p0 −5.71 ± 0.3318
pull
Entries 87
Mean −836.8
Std Dev 875.6
pull1D
Entries 87
Mean 0.006187
Std Dev 0.3683

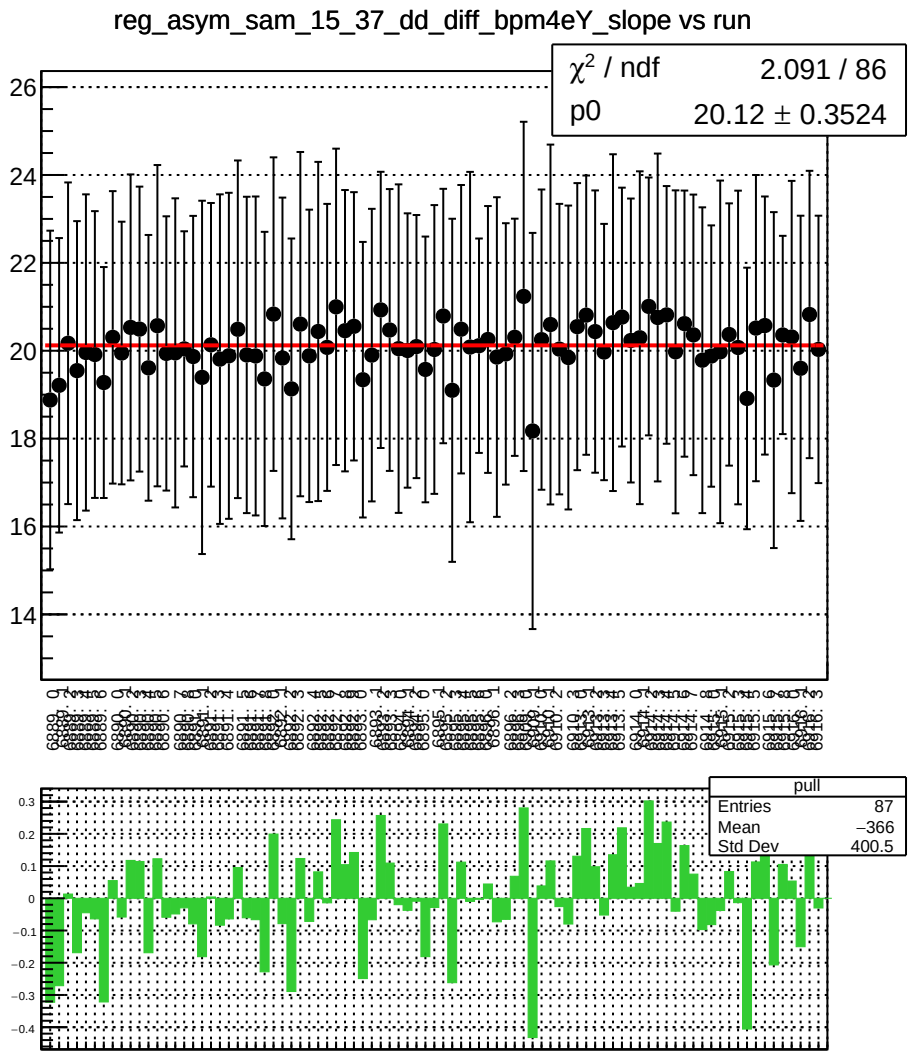

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 23.1 / 86
p0 0.1951± 0.01453
pull
Entries 87
Mean −199.2
Std Dev 286.2
pull1D
Entries 87
Mean −0.00701
Std Dev 0.5153

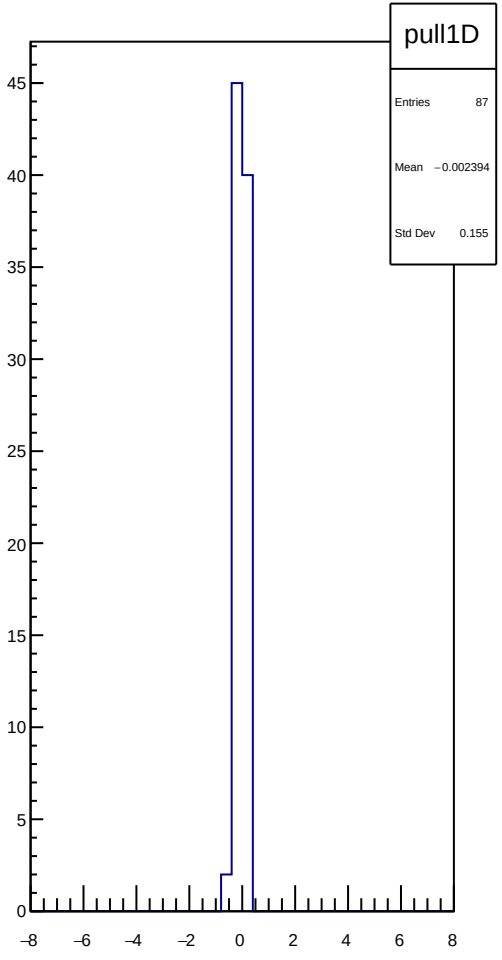

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 30.58 / 86
p0 −0.06978 ± 0.3987
pull
Entries 87
Mean 224.6
Std Dev 172.4
pull1D
Entries 87
Mean 0.0543
Std Dev 0.5904

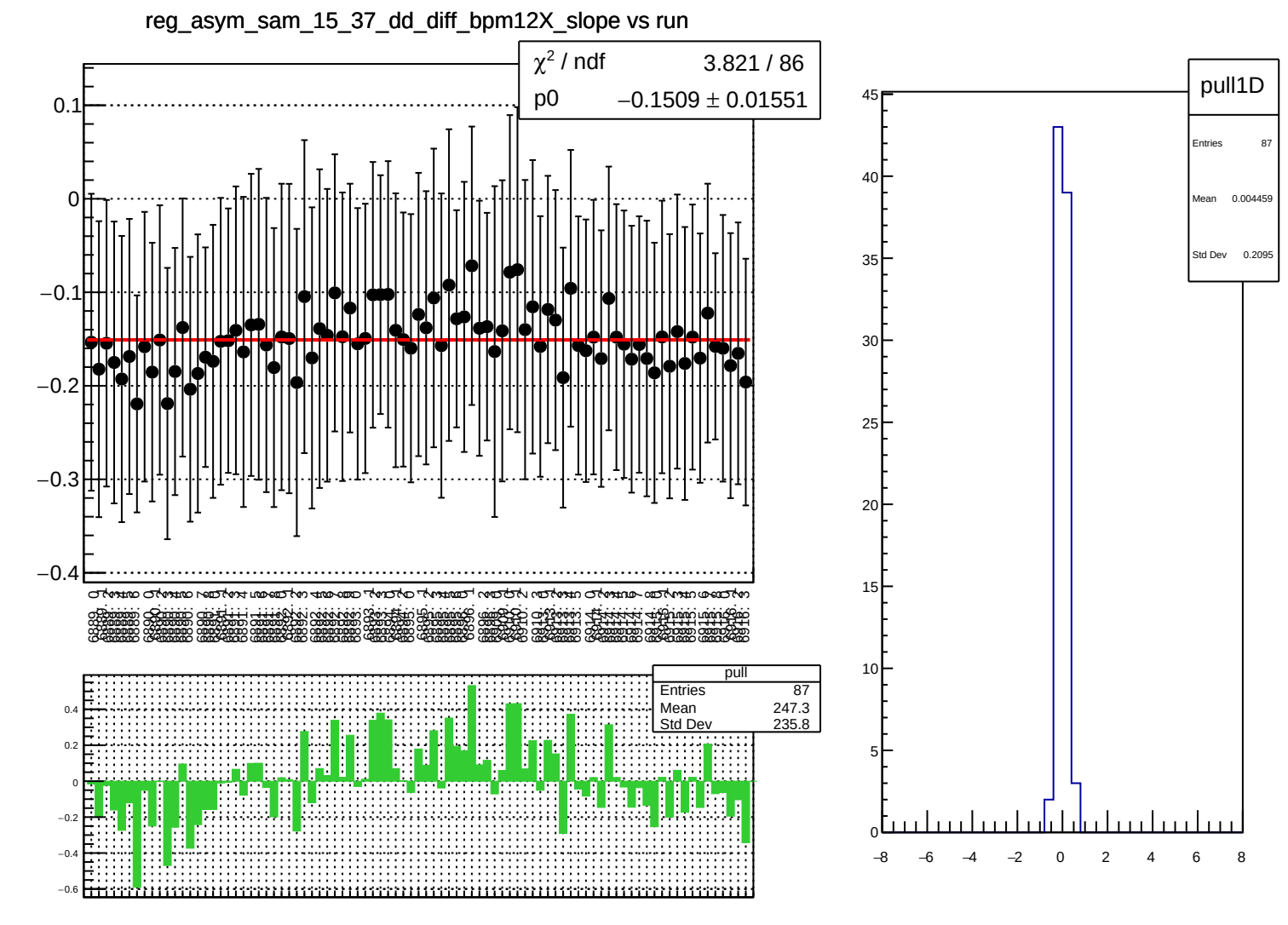

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.913 / 86
p0 0.1946 ± 0.2983
pull
Entries 87
Mean −663.4
Std Dev 706.6
pull1D
Entries 87
Mean 0.003033
Std Dev 0.183

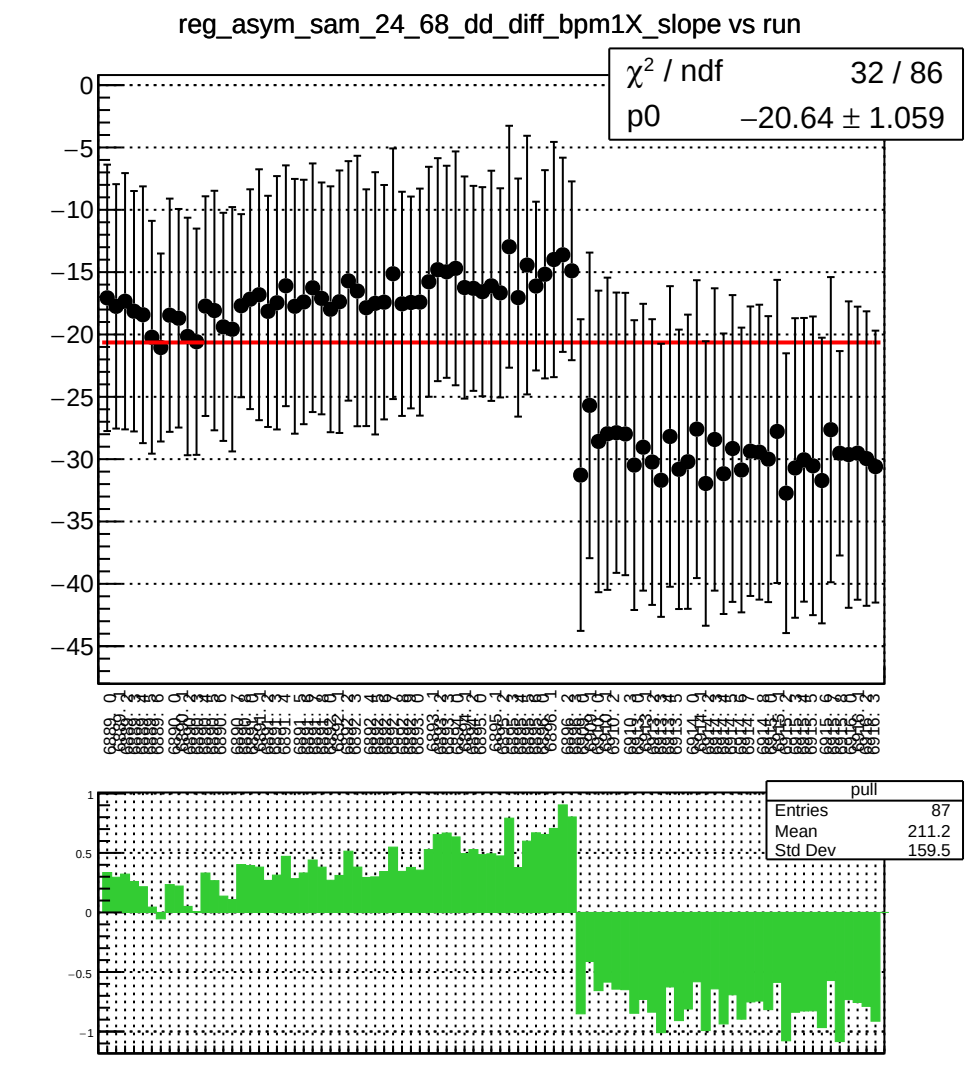

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.94 / 86
p0 36.6 ± 0.3814
45
40
35
30
25
pull
Entries 87
Mean 278
Std Dev 225.7
1
0.5
0
−0.5
−1
−1.5

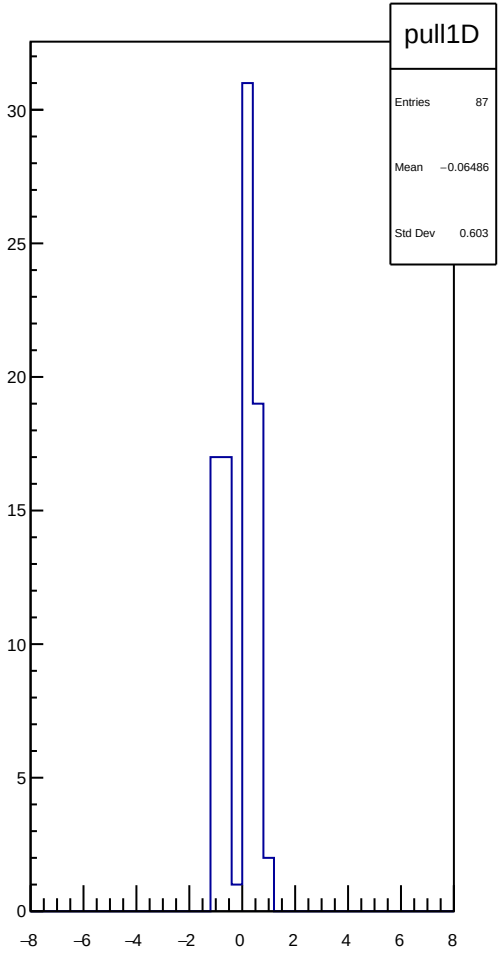

pull1D
Entries 87
Mean −0.04781
Std Dev 0.7009
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

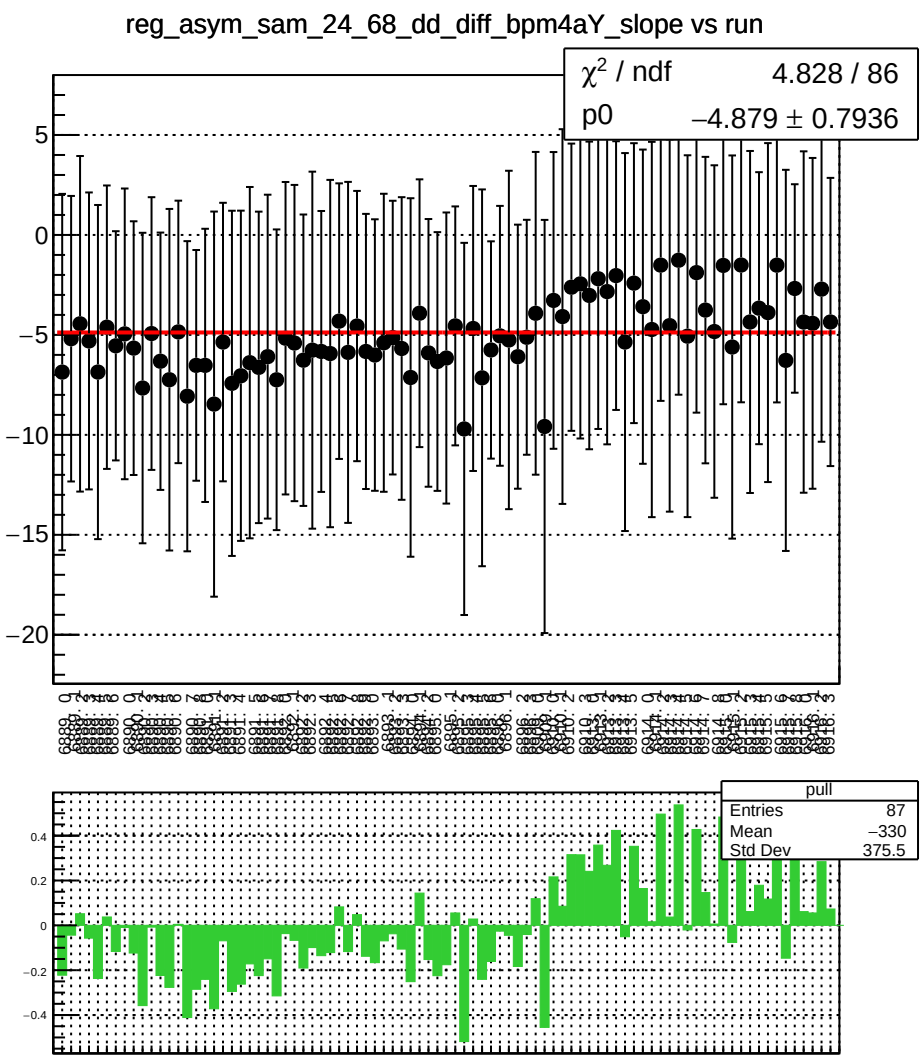

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.091 / 86
p0 20.12 ± 0.3524
pull
Entries 87
Mean −366
Std Dev 400.5

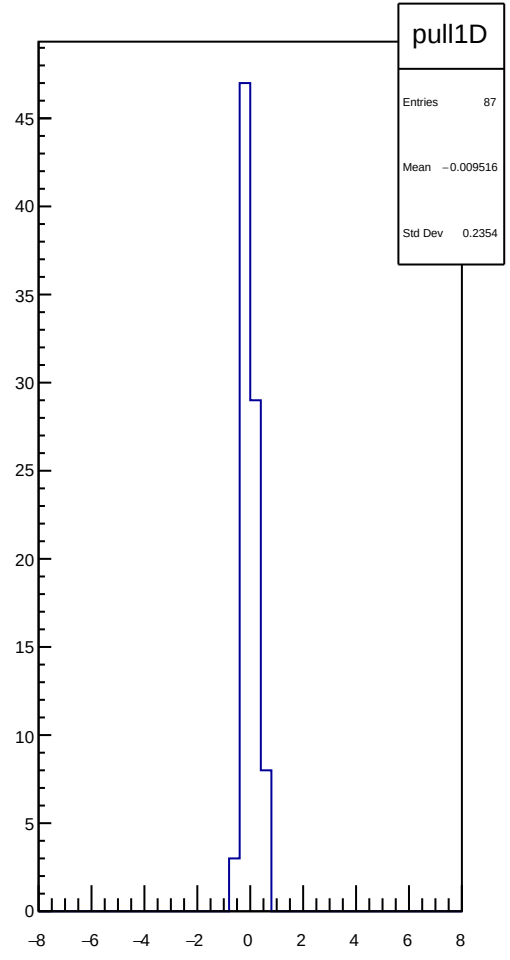

pull1D
Entries 87
Mean −0.002394
Std Dev 0.155

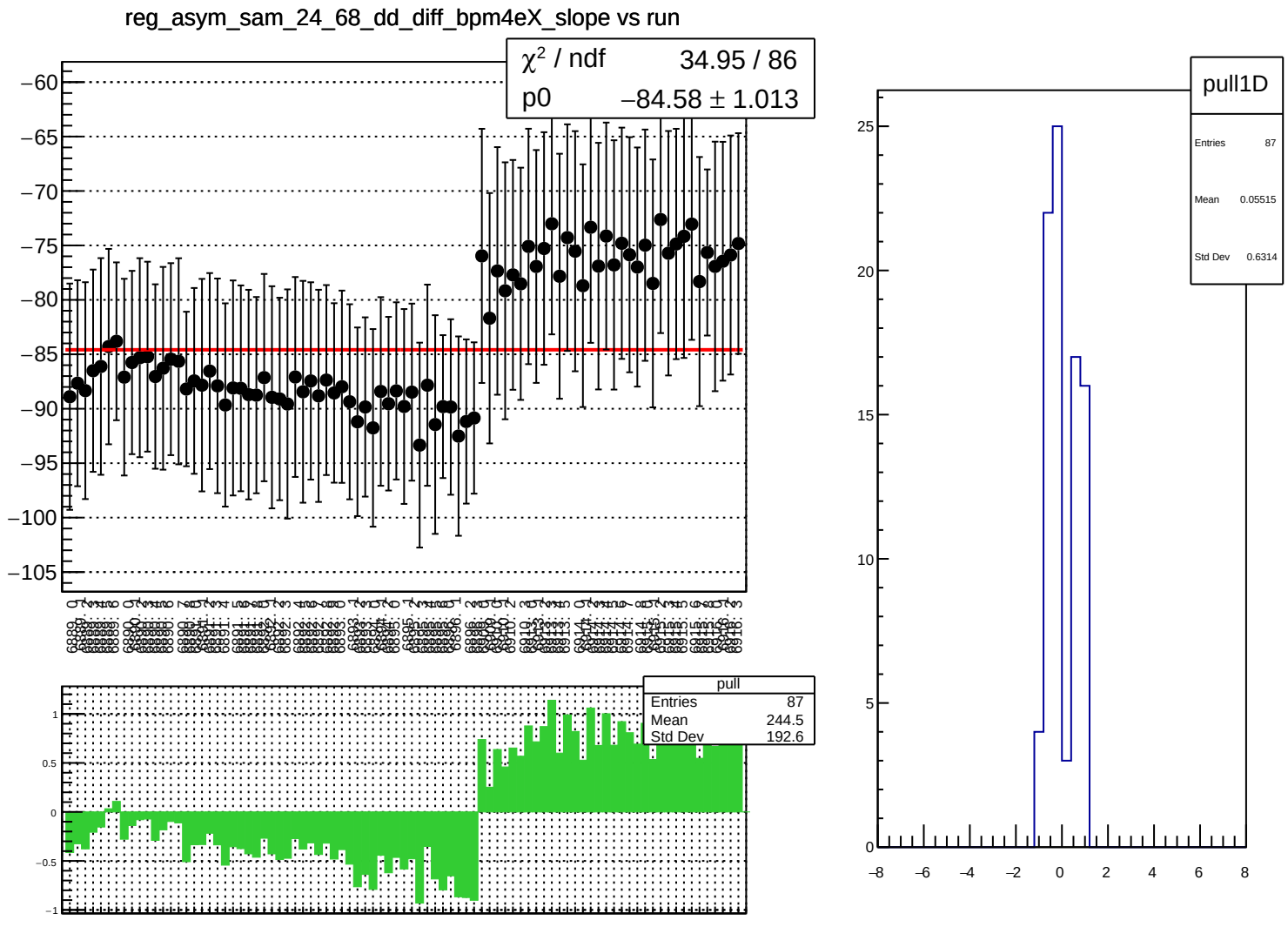

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.821 / 86
p0 −0.1509 ± 0.01551
pull
Entries 87
Mean 247.3
Std Dev 235.8
pull1D
Entries 87
Mean 0.004459
Std Dev 0.2095

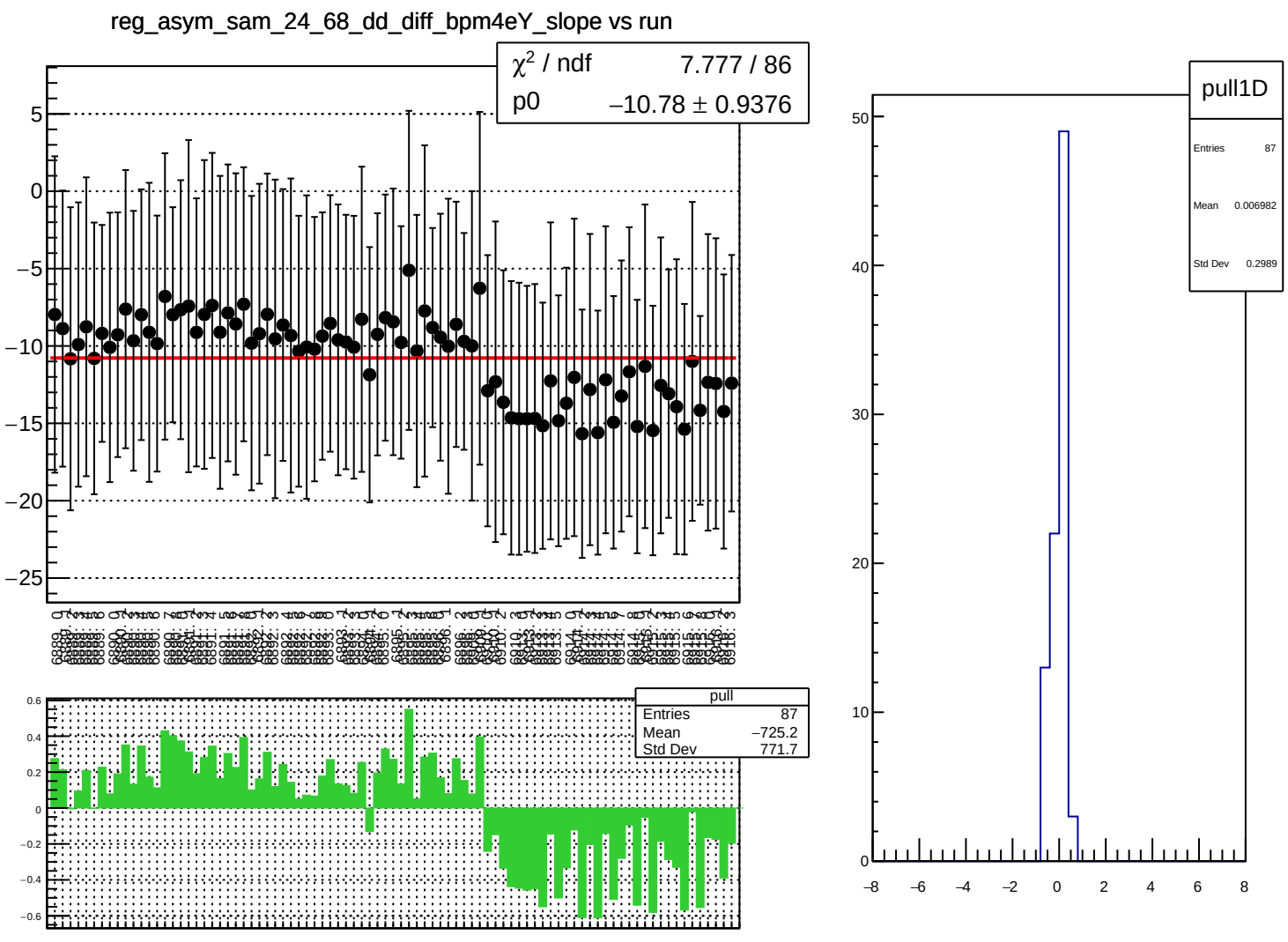

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 32 / 86
p0 −20.64 ± 1.059
pull
Entries 87
Mean 211.2
Std Dev 159.5

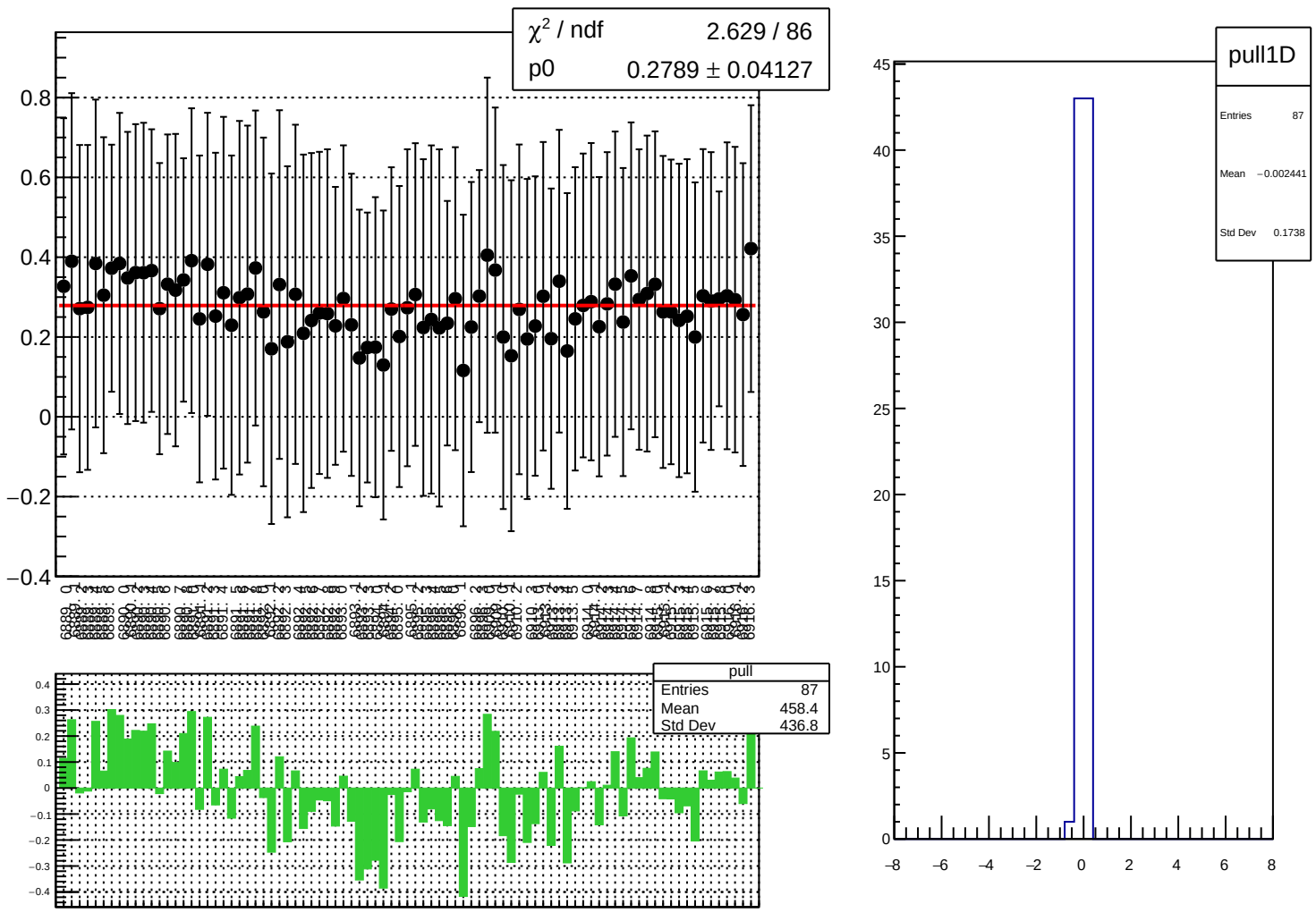

pull1D
Entries 87
Mean −0.06486
Std Dev 0.603

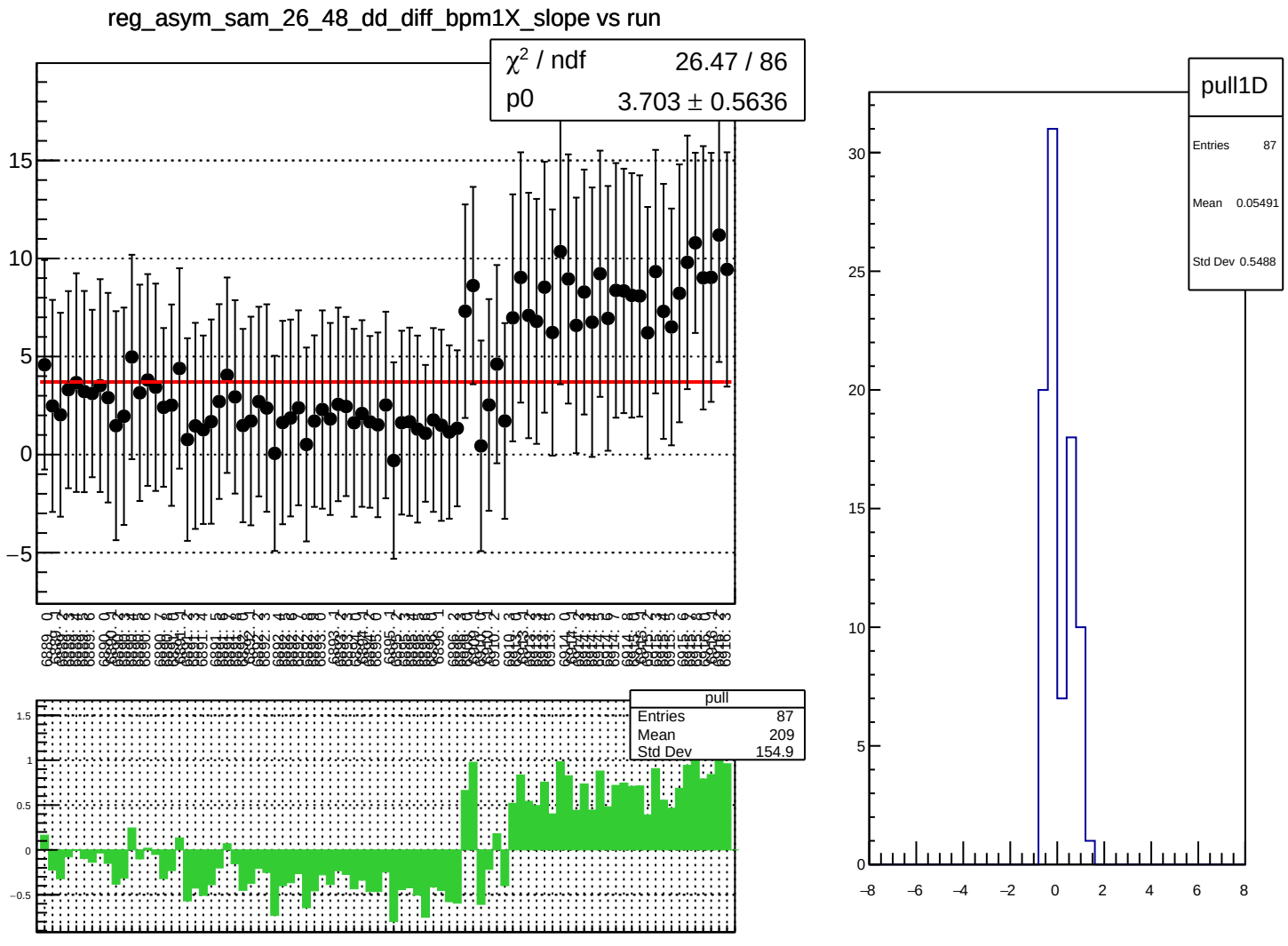

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.828 / 86
p0 −4.879 ± 0.7936
pull
Entries 87
Mean −330
Std Dev 375.5

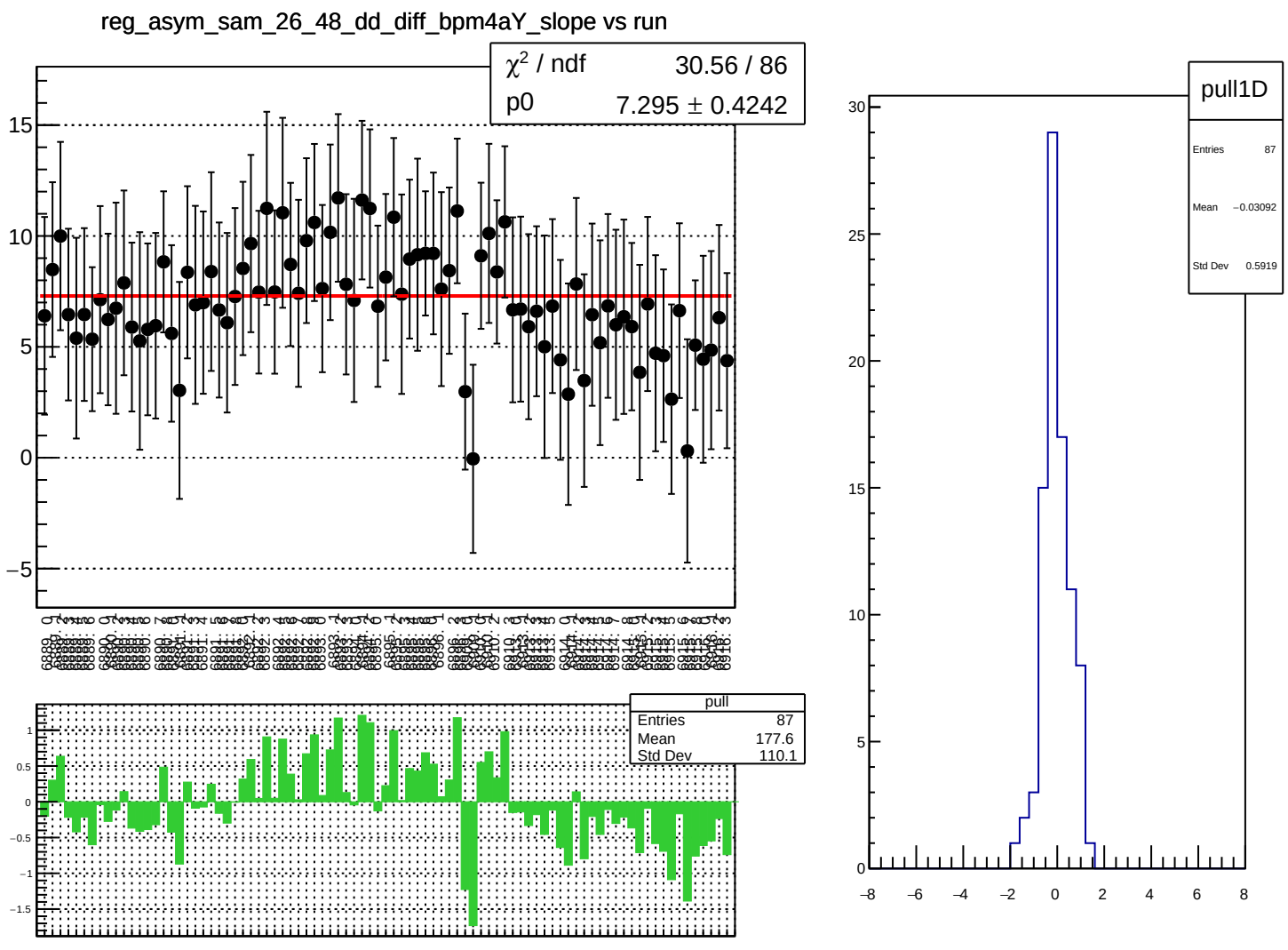

pull1D
Entries 87
Mean −0.009516
Std Dev 0.2354

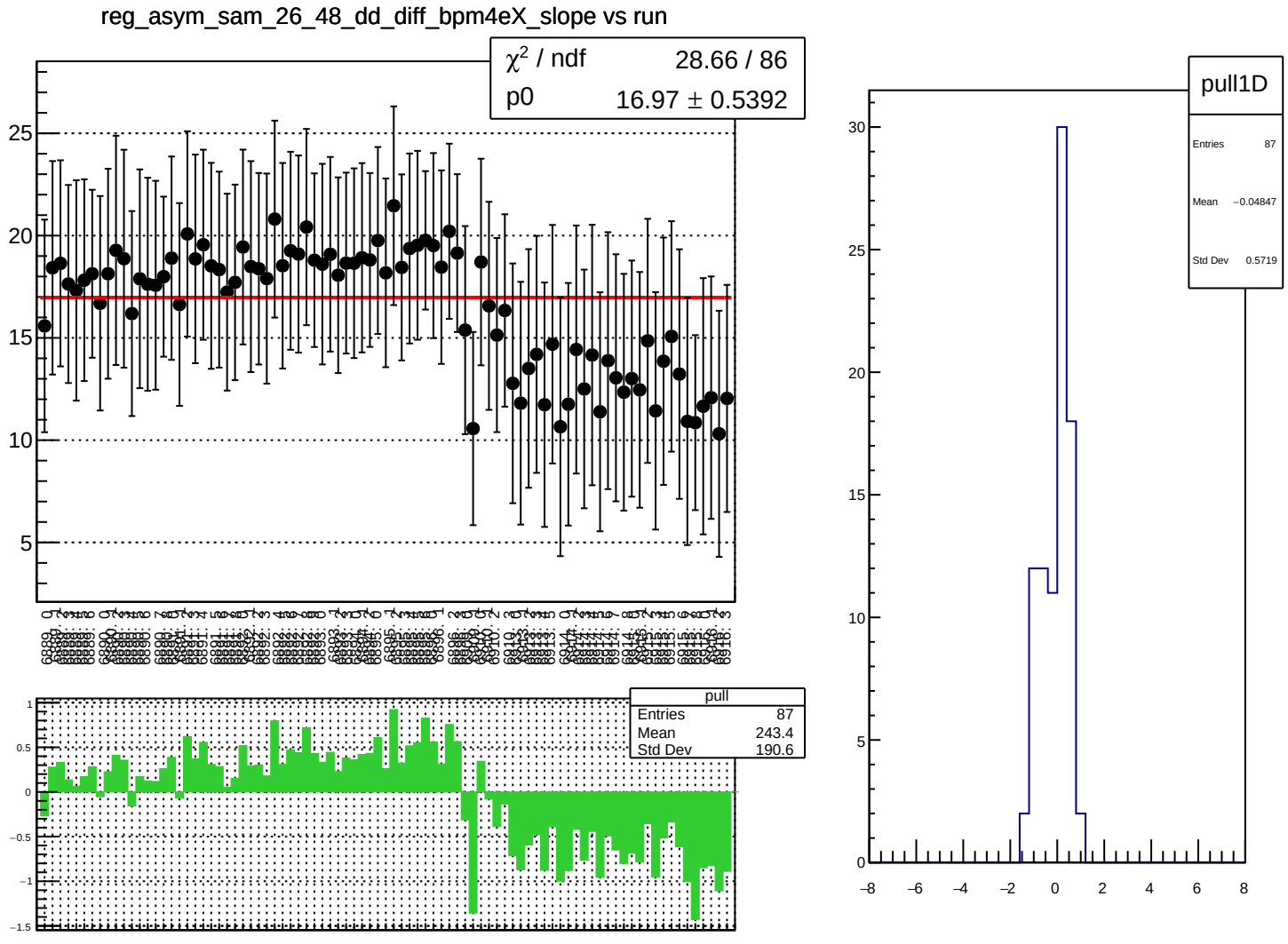

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.95 / 86
p0 −84.58 ± 1.013
pull
Entries 87
Mean 244.5
Std Dev 192.6
pull1D
Entries 87
Mean 0.05515
Std Dev 0.6314

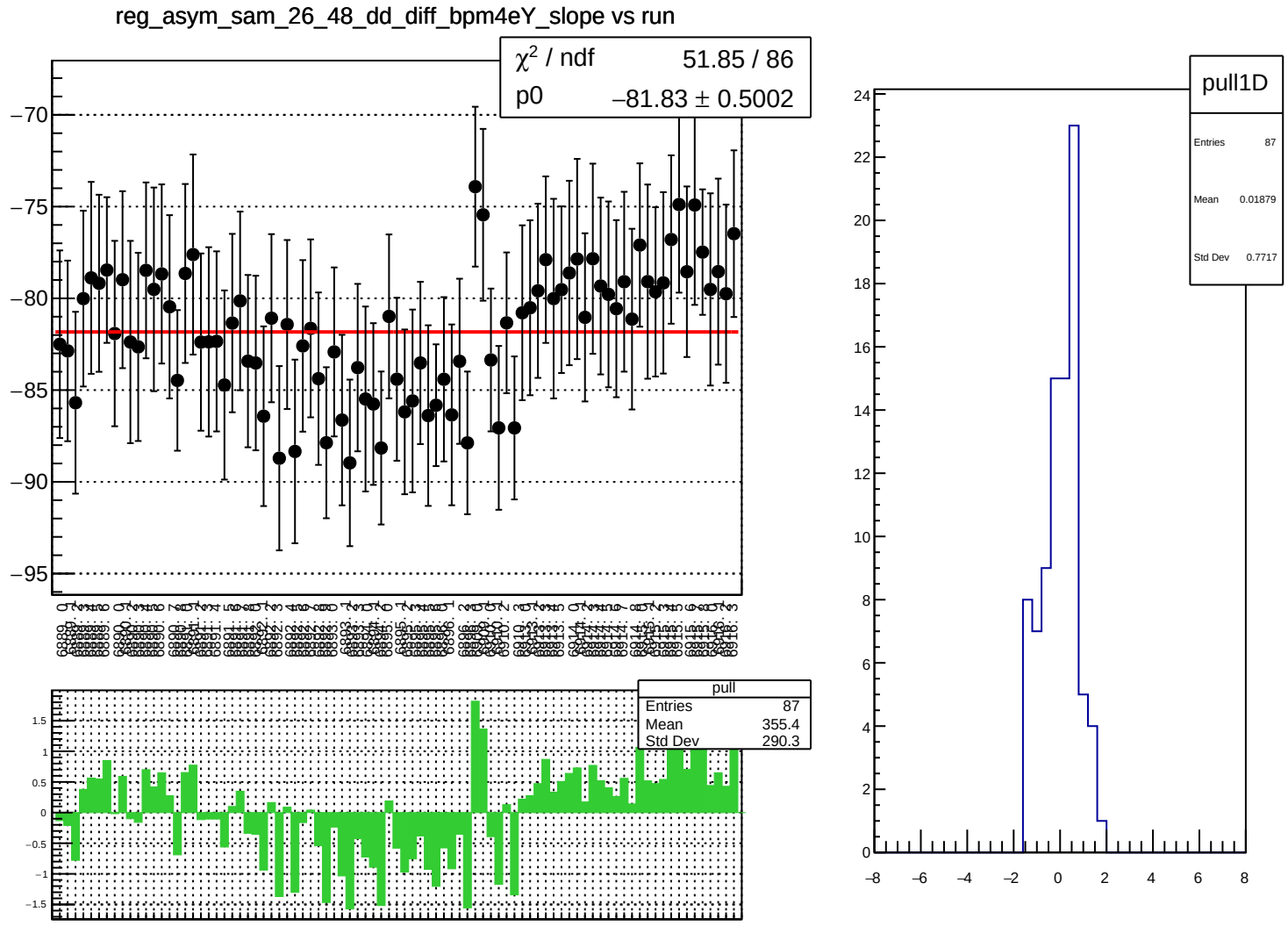

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.777 / 86
p0 −10.78 ± 0.9376
pull
Entries 87
Mean −725.2
Std Dev 771.7
pull1D
Entries 87
Mean 0.006982
Std Dev 0.2989

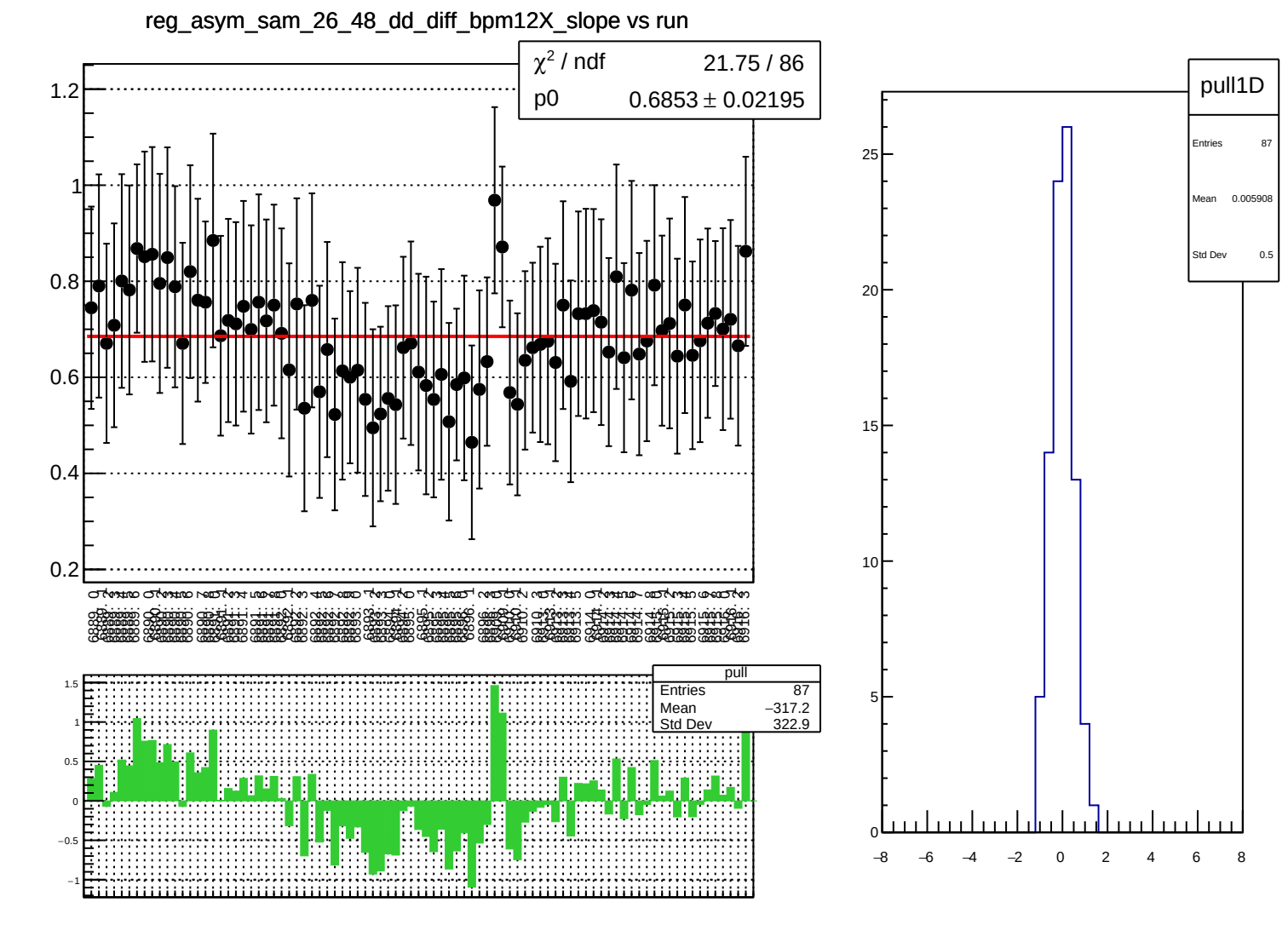

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 2.629 / 86
p0 0.2789 ± 0.04127
pull
Entries 87
Mean 458.4
Std Dev 436.8
pull1D
Entries 87
Mean −0.002441
Std Dev 0.1738

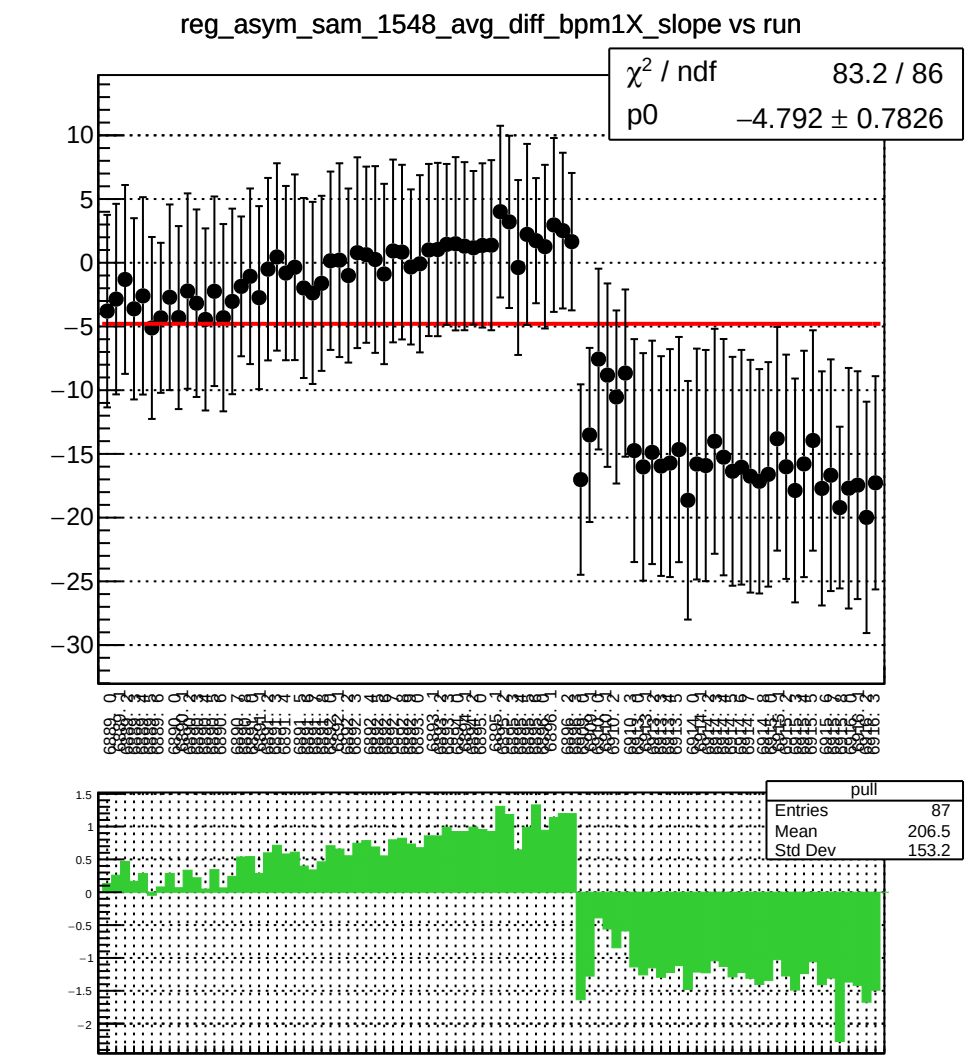

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 26.47 / 86
p0 3.703 ± 0.5636
pull
Entries 87
Mean 209
Std Dev 154.9
pull1D
Entries 87
Mean 0.05491
Std Dev 0.5488

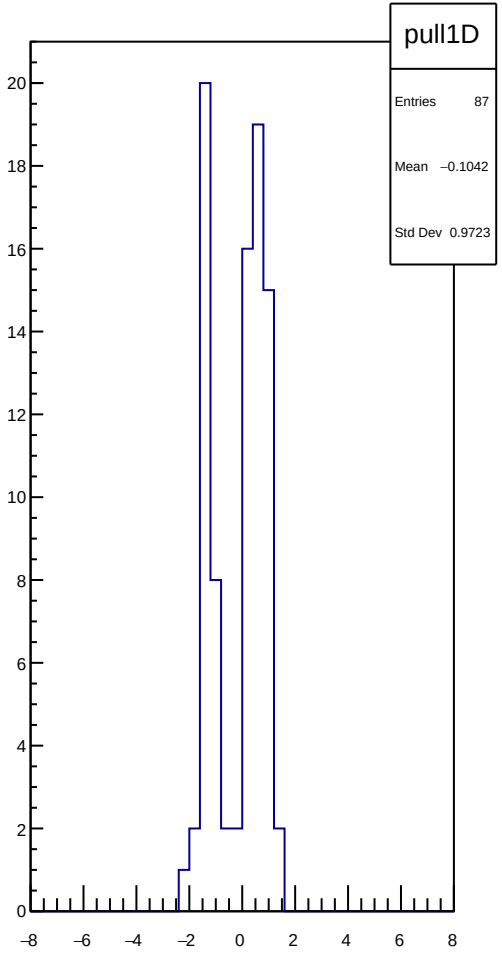

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.56 / 86
p0 7.295 ± 0.4242
pull
Entries 87
Mean 177.6
Std Dev 110.1
pull1D
Entries 87
Mean −0.03092
Std Dev 0.5919

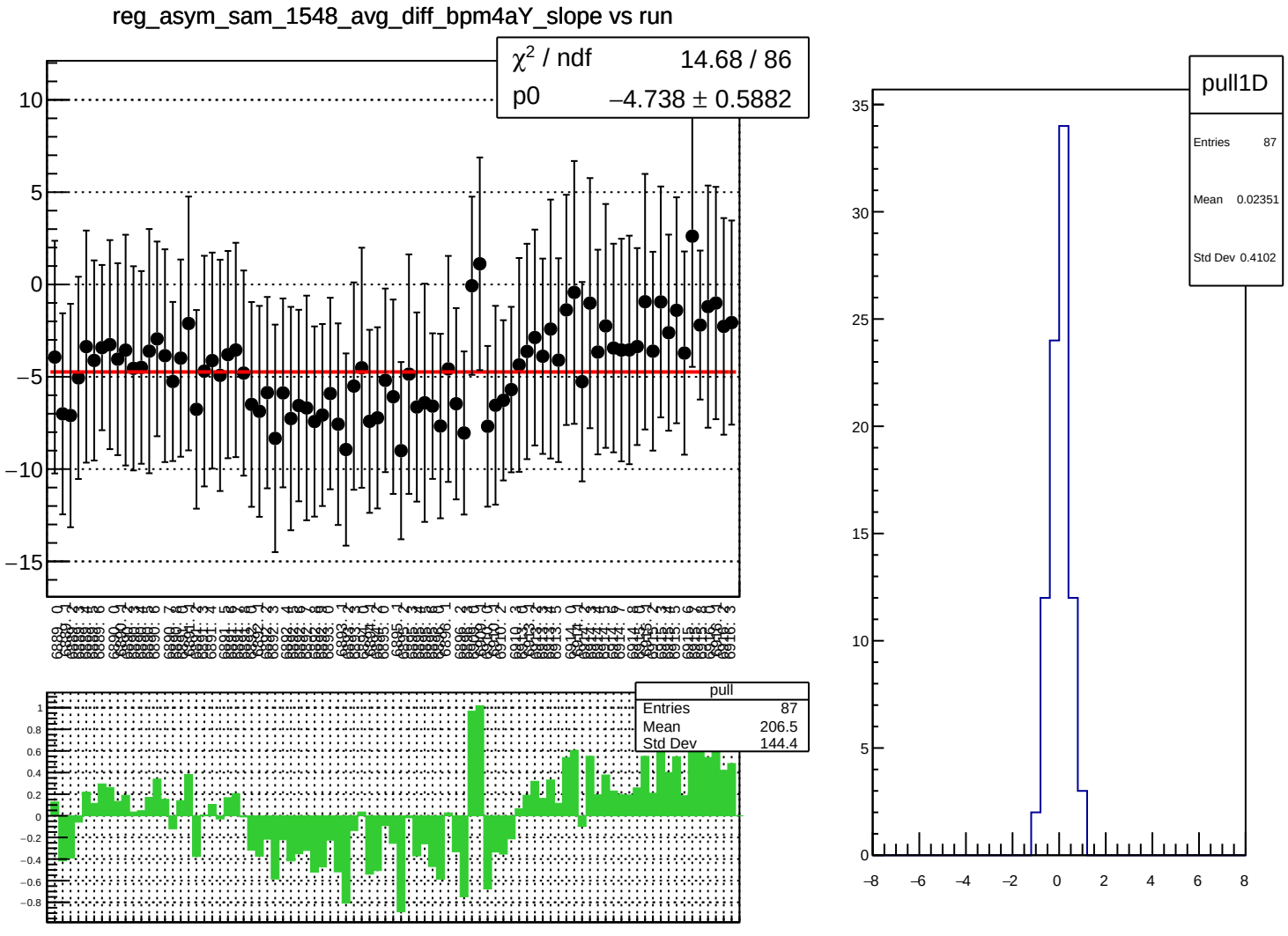

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.66 / 86
p0 16.97 ± 0.5392
pull
Entries 87
Mean 243.4
Std Dev 190.6
pull1D
Entries 87
Mean −0.04847
Std Dev 0.5719

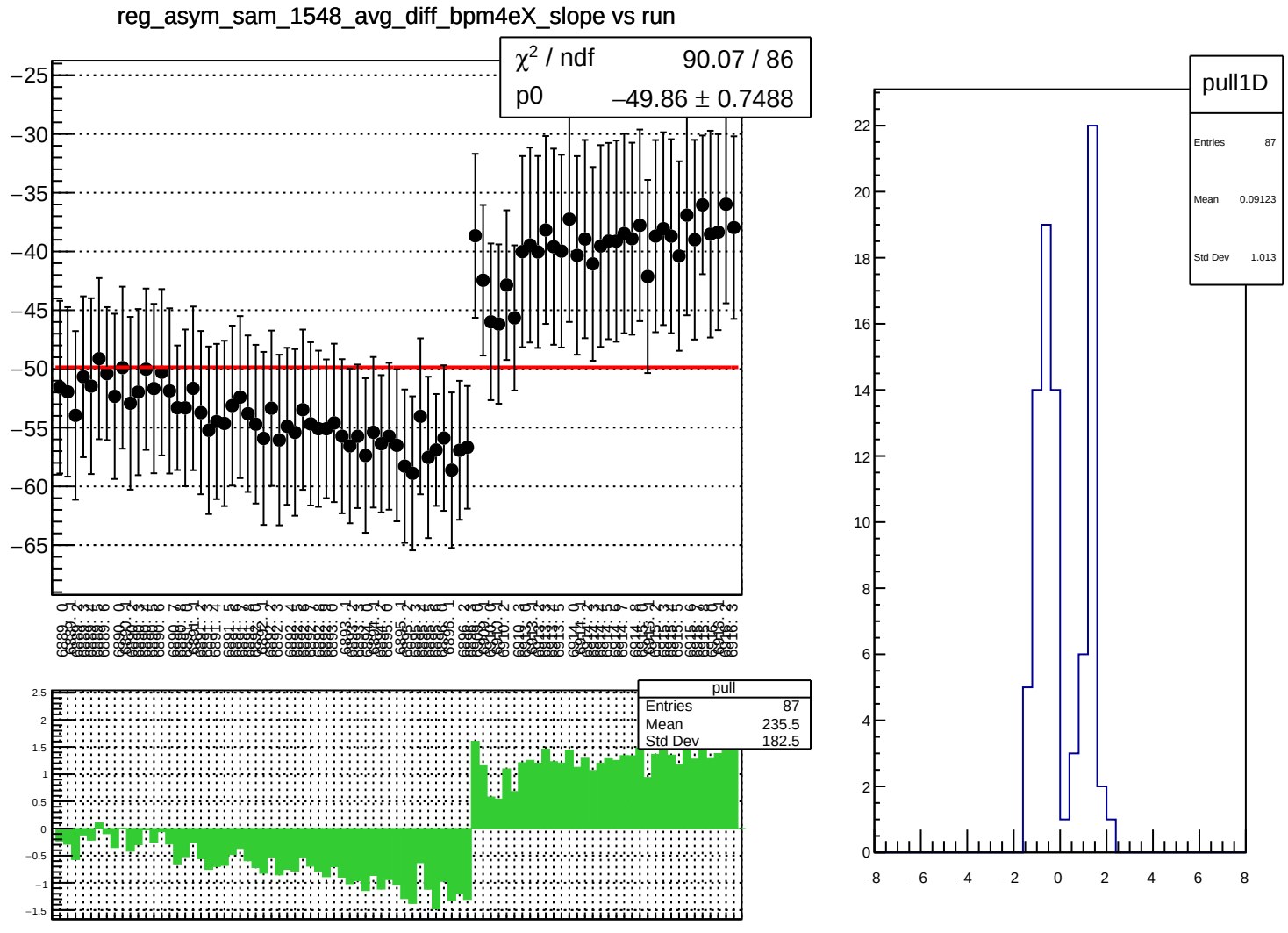

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.85 / 86
p0 −81.83 ± 0.5002
pull
Entries 87
Mean 355.4
Std Dev 290.3
pull1D
Entries 87
Mean 0.01879
Std Dev 0.7717

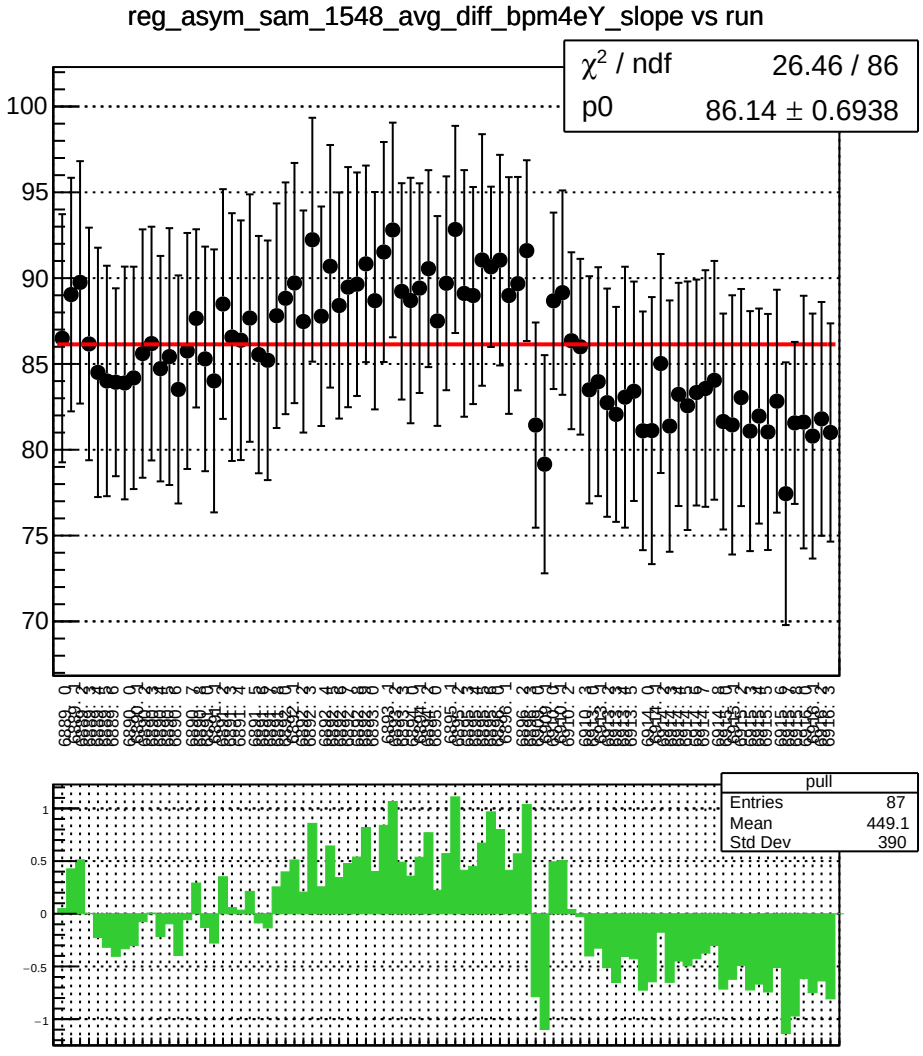

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 21.75 / 86
p0 0.6853 ± 0.02195
pull
Entries 87
Mean −317.2
Std Dev 322.9
pull1D
Entries 87
Mean 0.005908
Std Dev 0.5

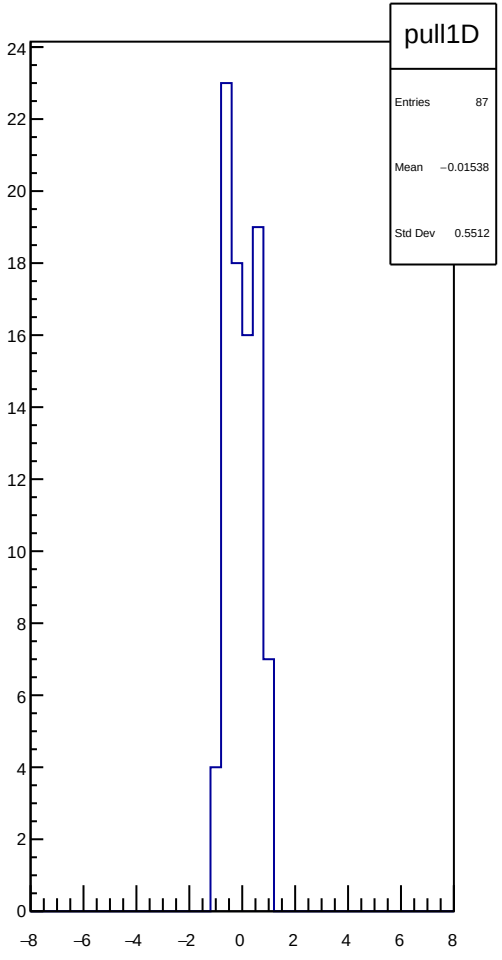

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 83.2 / 86
p0 −4.792 ± 0.7826
pull
Entries 87
Mean 206.5
Std Dev 153.2

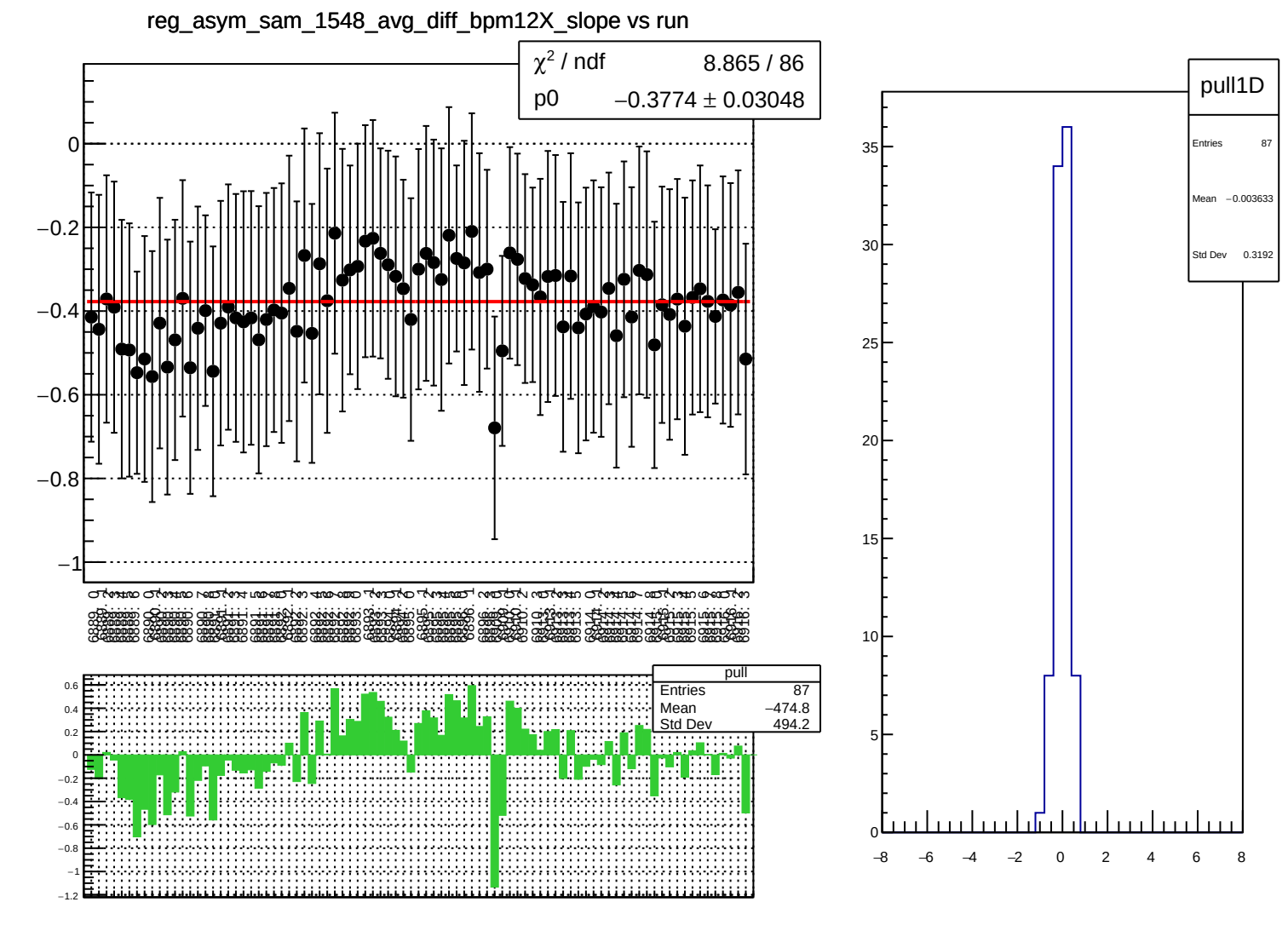

pull1D
Entries 87
Mean −0.1042
Std Dev 0.9723

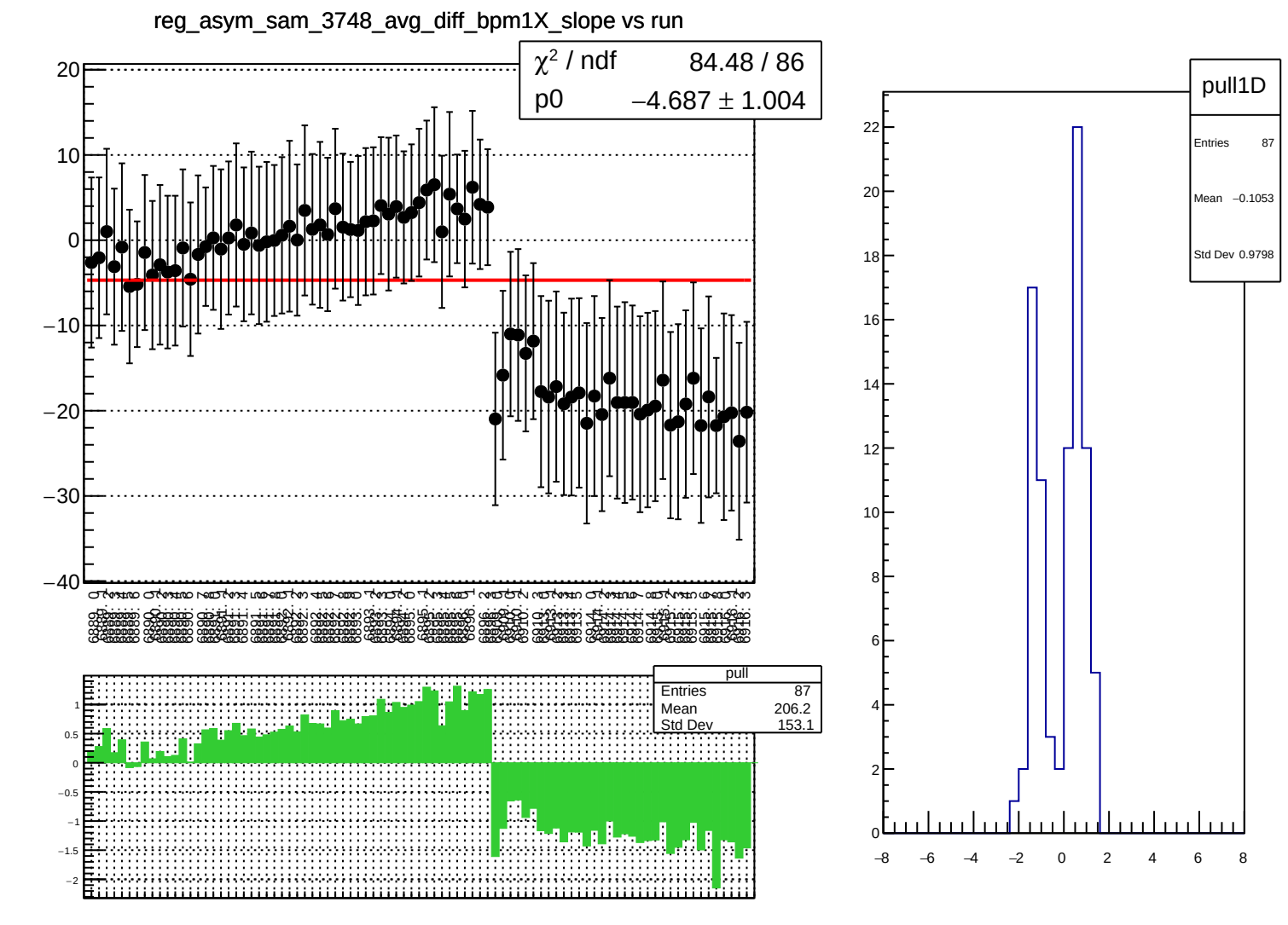

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.68 / 86
p0 −4.738 ± 0.5882
pull
Entries 87
Mean 206.5
Std Dev 144.4
pull1D
Entries 87
Mean 0.02351
Std Dev 0.4102

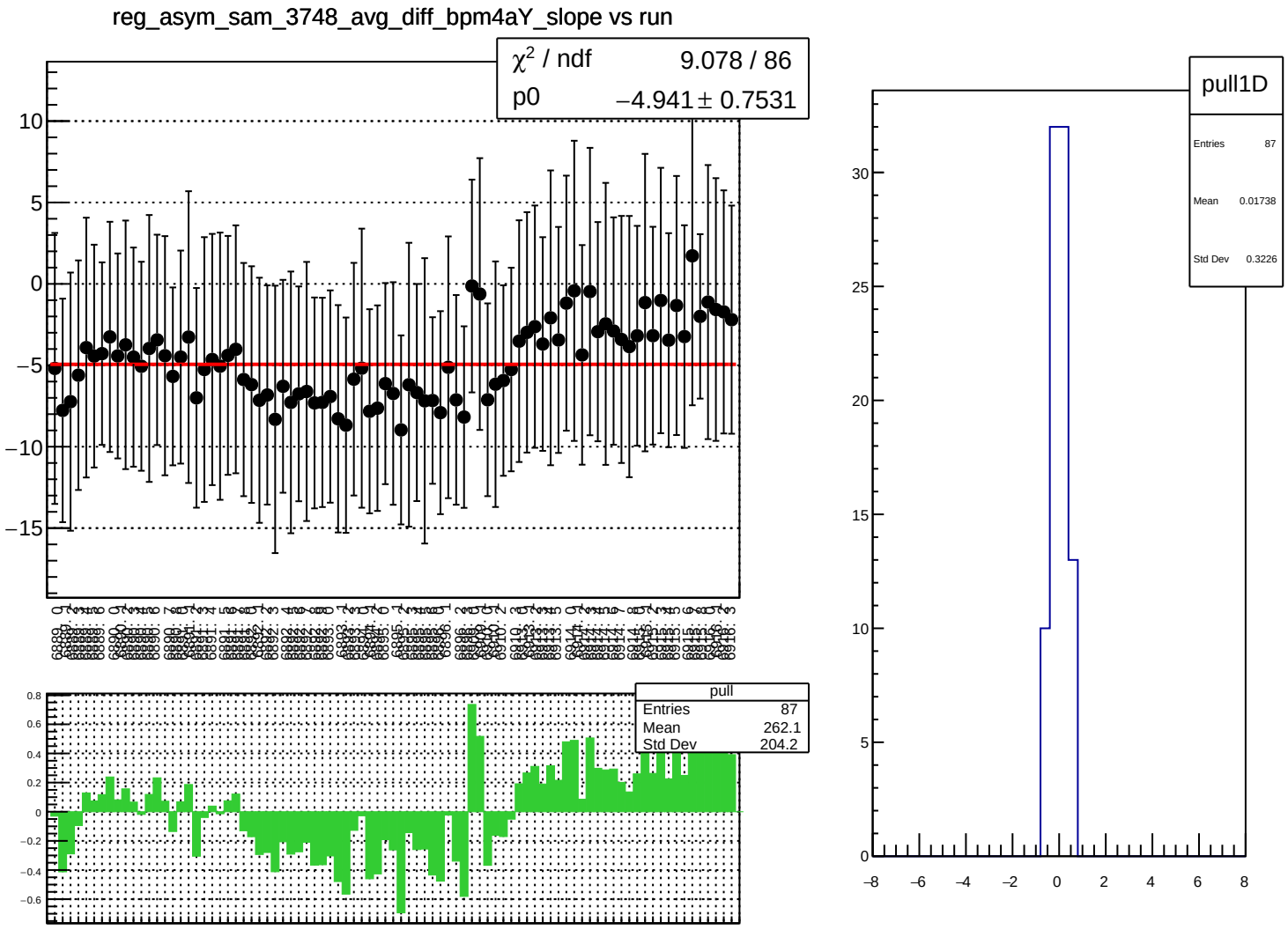

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 90.07 / 86
p0 −49.86 ± 0.7488
pull
Entries 87
Mean 235.5
Std Dev 182.5
pull1D
Entries 87
Mean 0.09123
Std Dev 1.013

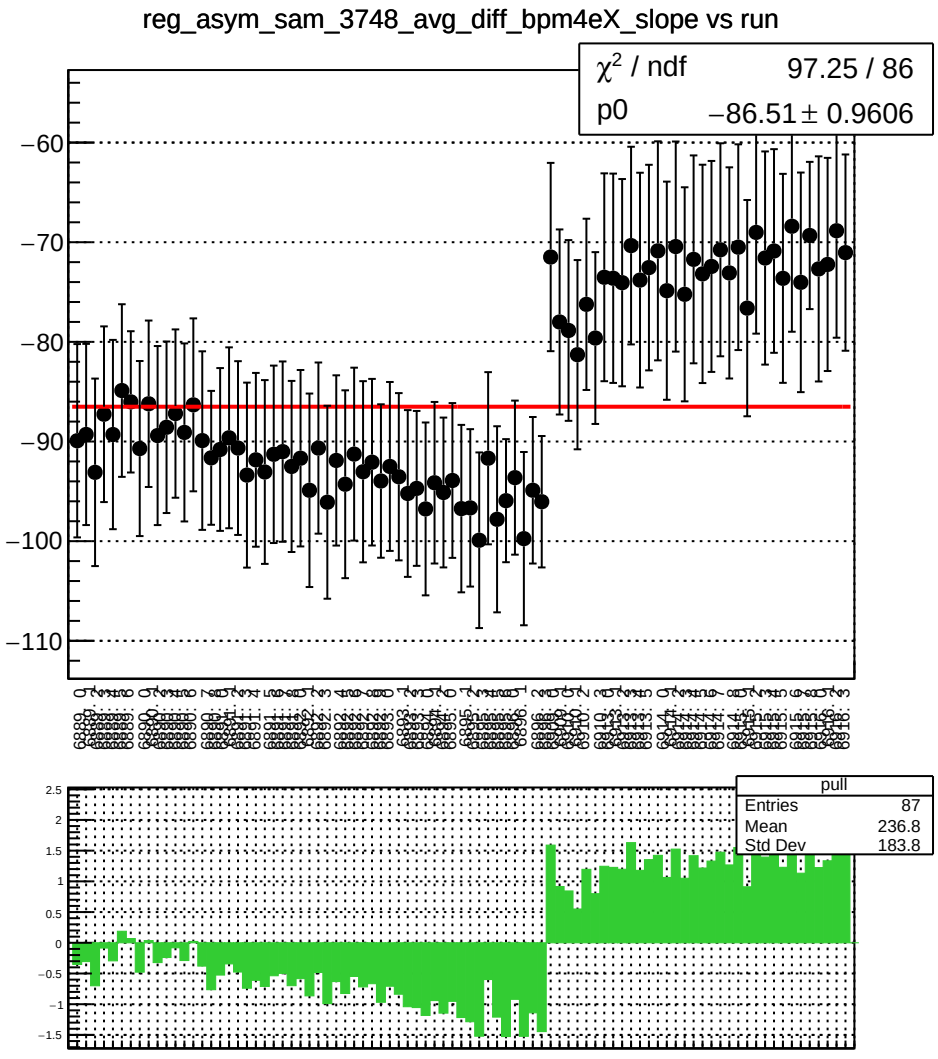

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.46 / 86
p0 86.14 ± 0.6938
100
95
90
85
80
75
70
pull
Entries 87
Mean 449.1
Std Dev 390
1
0.5
0
−0.5
−1

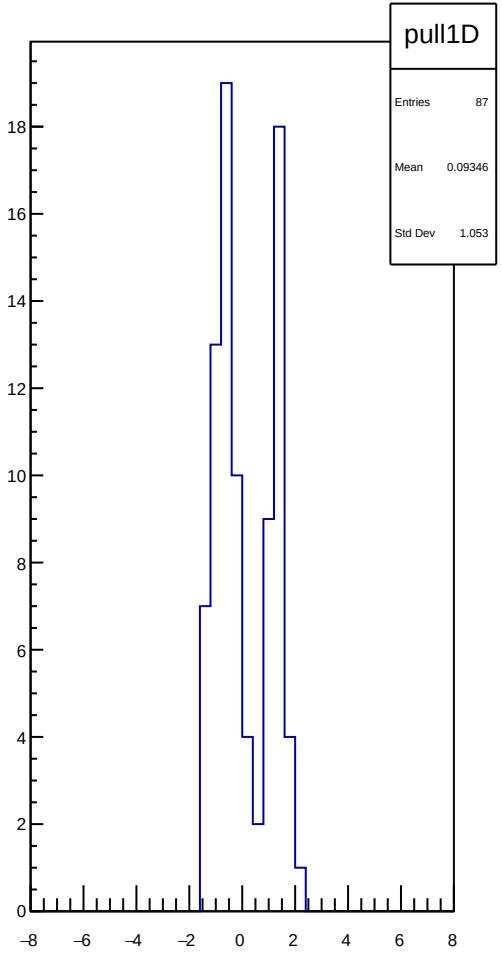

pull1D
Entries 87
Mean −0.01538
Std Dev 0.5512
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

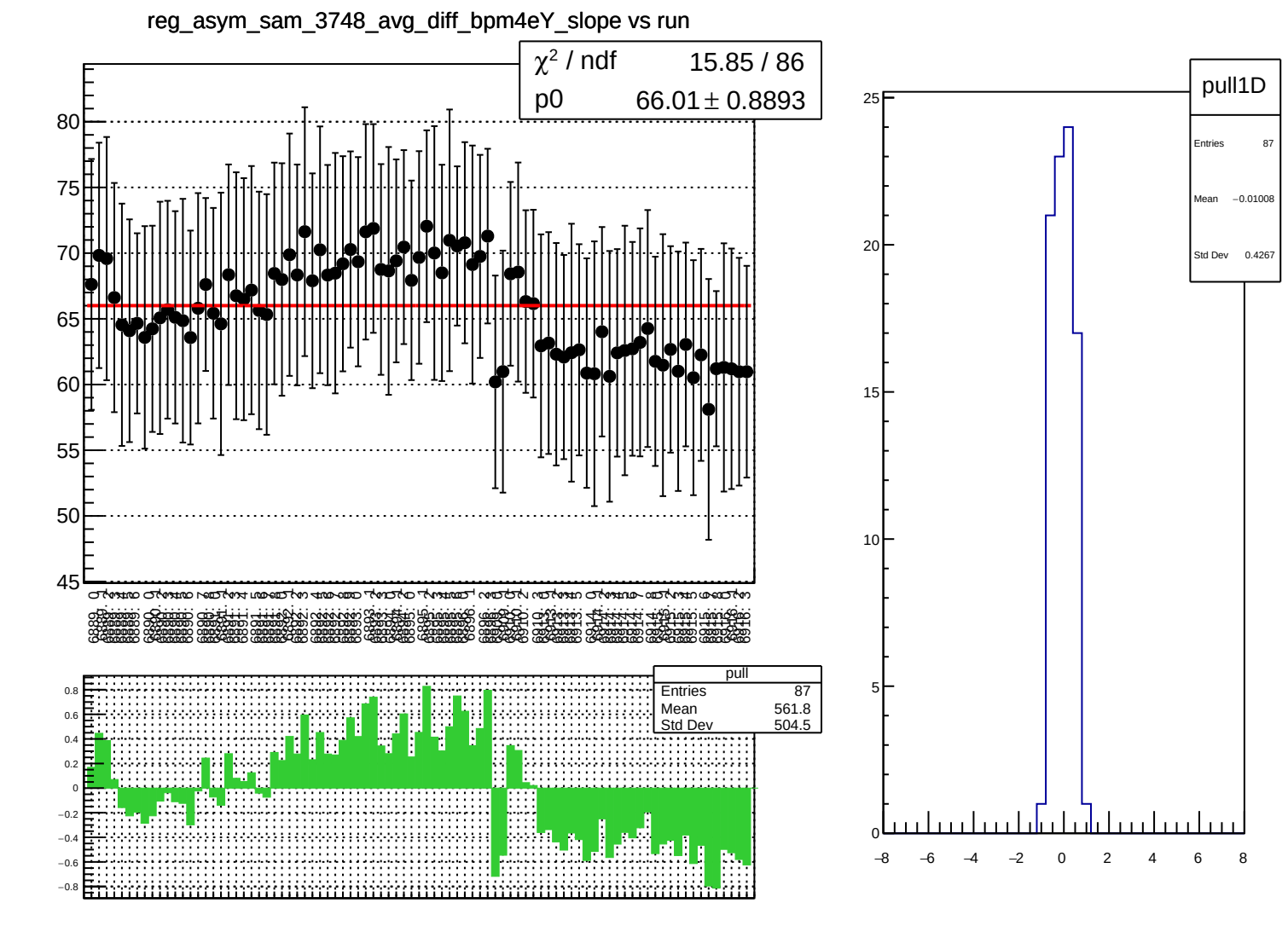

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 8.865 / 86
p0 −0.3774 ± 0.03048
pull
Entries 87
Mean −474.8
Std Dev 494.2
pull1D
Entries 87
Mean −0.003633
Std Dev 0.3192

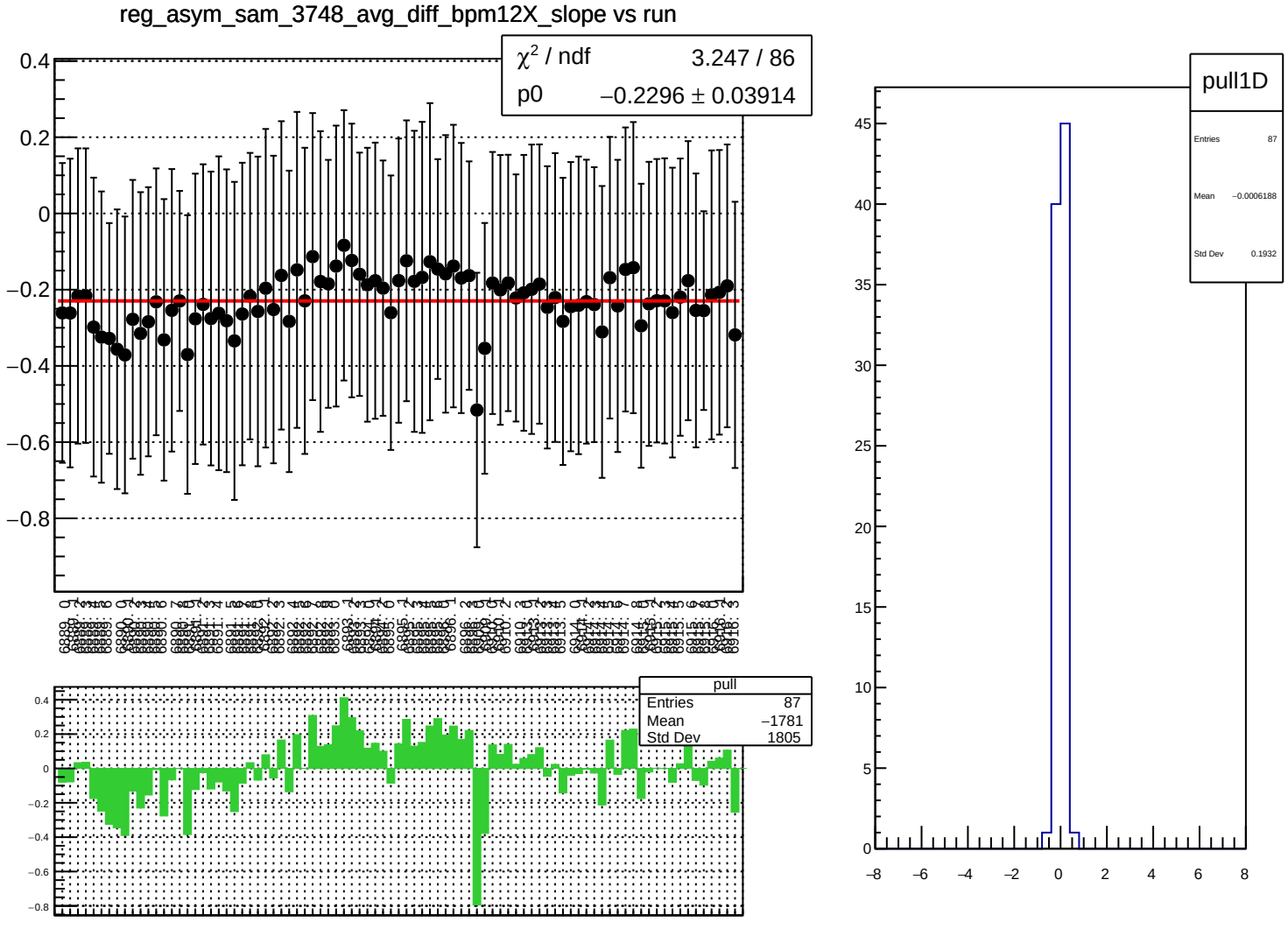

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 84.48 / 86
p0 −4.687 ± 1.004
pull
Entries 87
Mean 206.2
Std Dev 153.1
pull1D
Entries 87
Mean −0.1053
Std Dev 0.9798

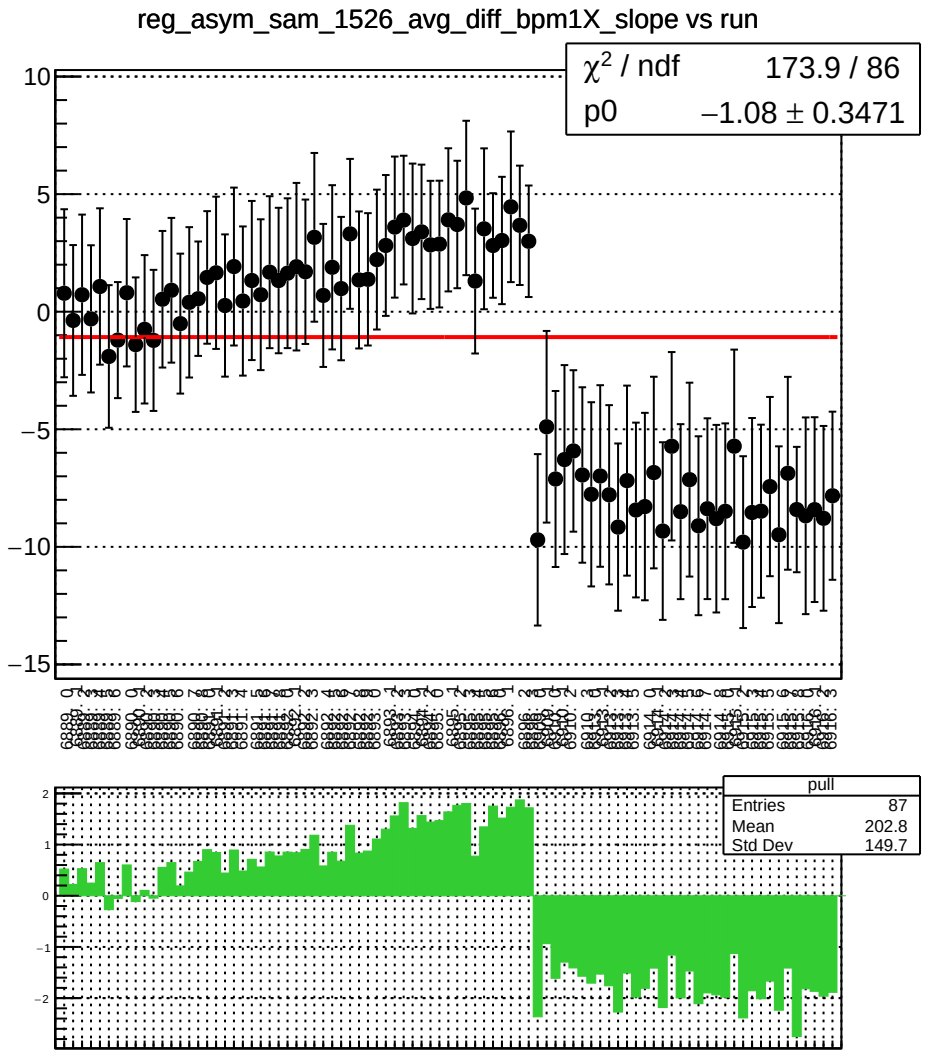

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.078 / 86
p0 −4.941 ± 0.7531
pull
Entries 87
Mean 262.1
Std Dev 204.2
pull1D
Entries 87
Mean 0.01738
Std Dev 0.3226

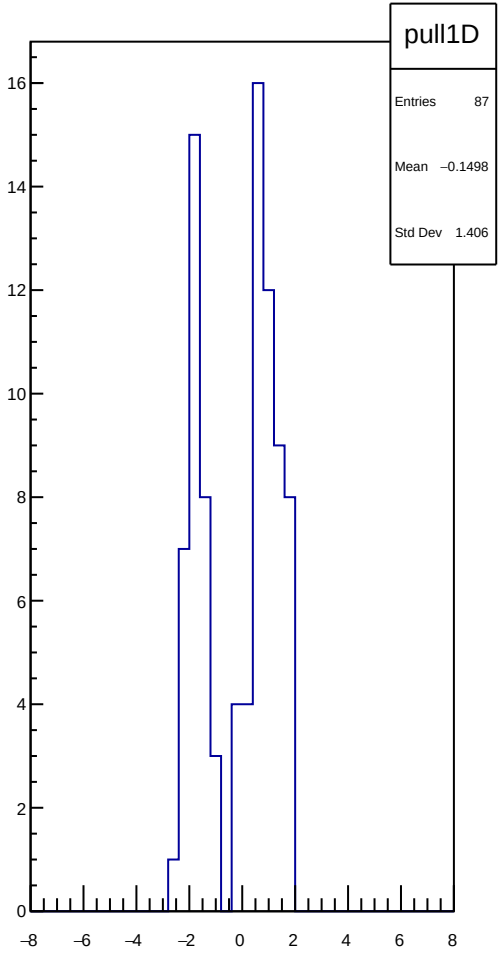

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 97.25 / 86
p0 −86.51 ± 0.9606
pull
Entries 87
Mean 236.8
Std Dev 183.8

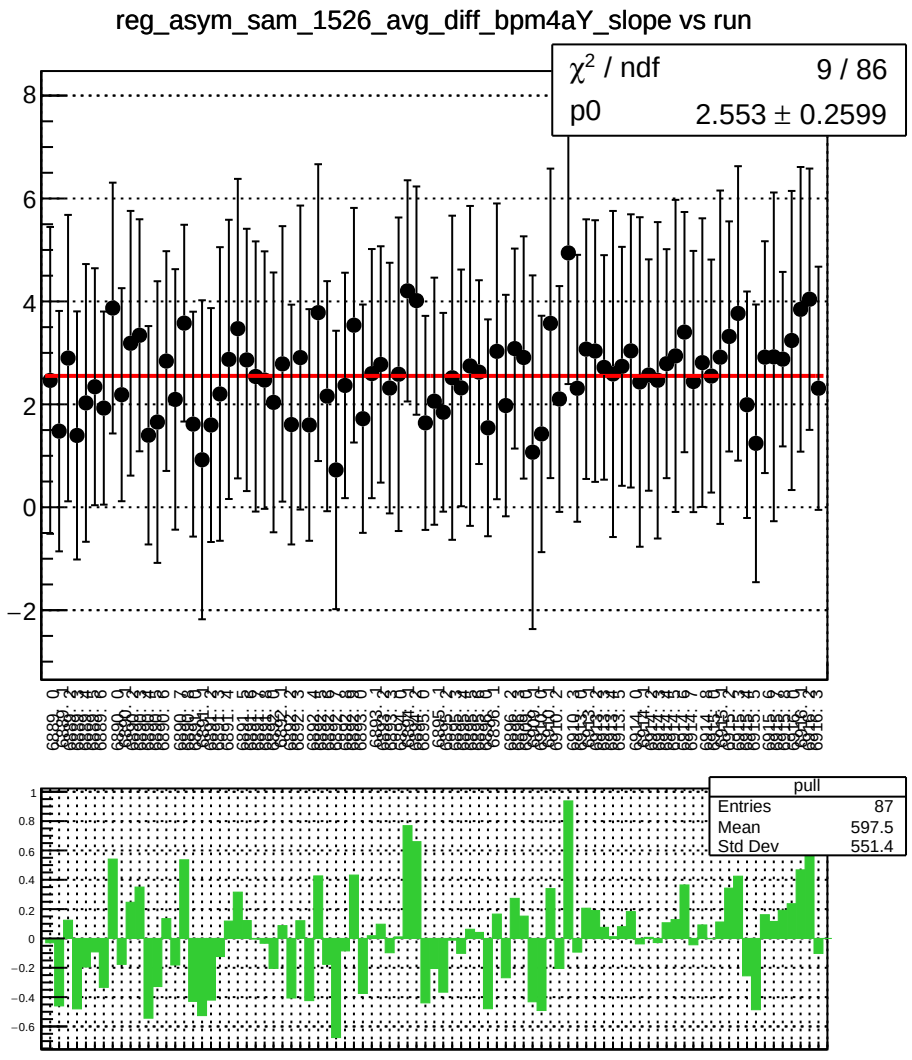

pull1D
Entries 87
Mean 0.09346
Std Dev 1.053

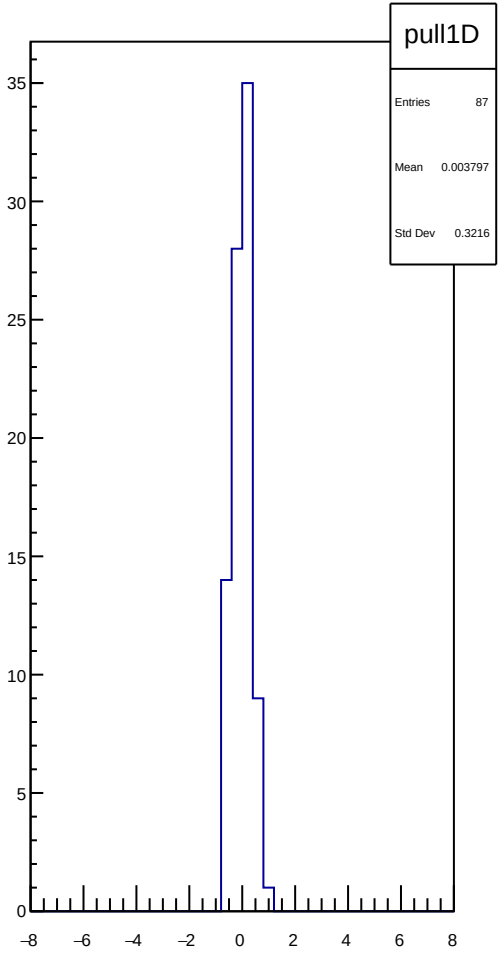

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.85 / 86
p0 66.01 ± 0.8893
pull
Entries 87
Mean 561.8
Std Dev 504.5
pull1D
Entries 87
Mean −0.01008
Std Dev 0.4267

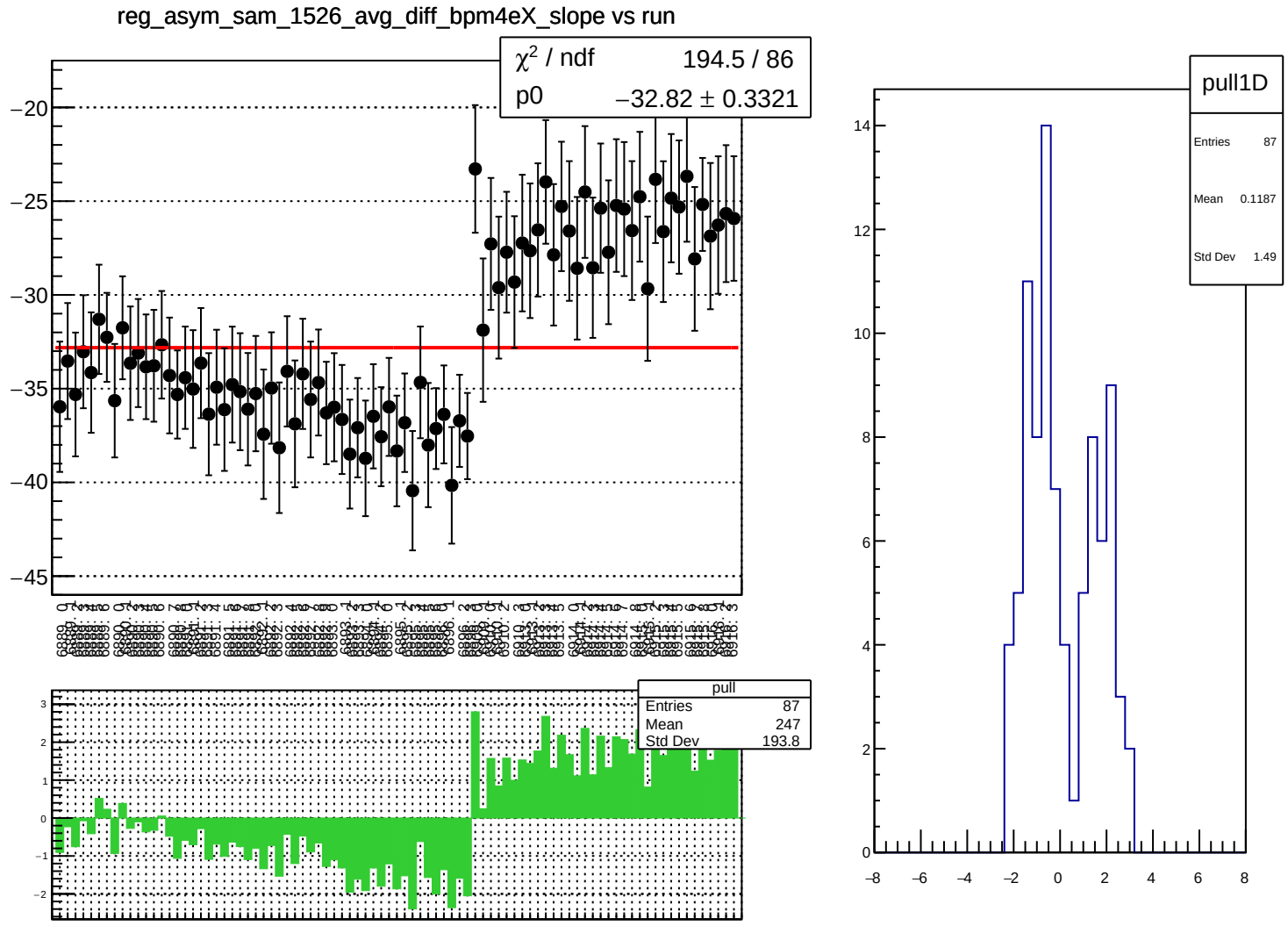

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 3.247 / 86
p0 −0.2296 ± 0.03914
pull
Entries 87
Mean −1781
Std Dev 1805
pull1D
Entries 87
Mean −0.0006188
Std Dev 0.1932

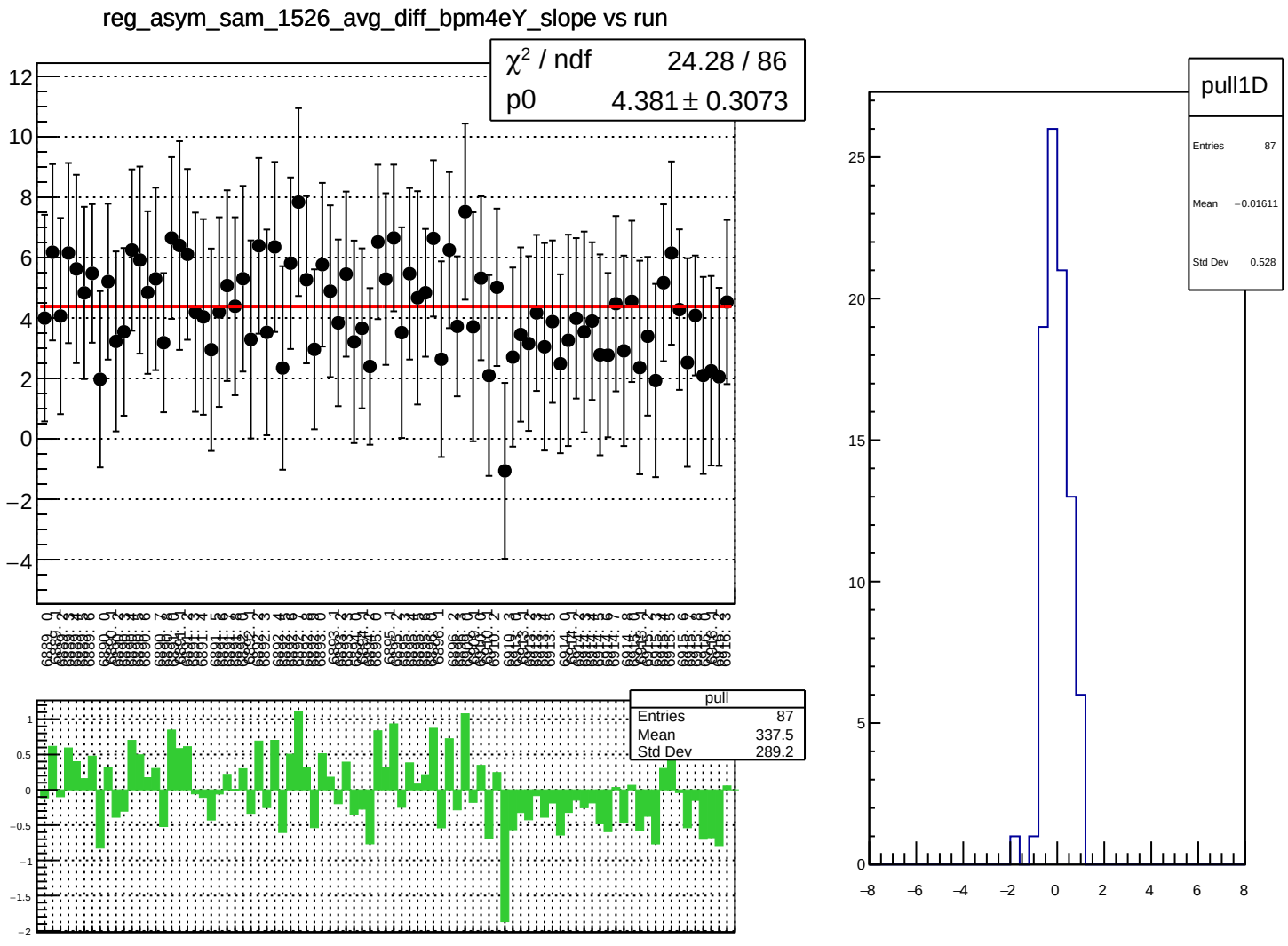

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 173.9 / 86
p0 −1.08 ± 0.3471
pull
Entries 87
Mean 202.8
Std Dev 149.7

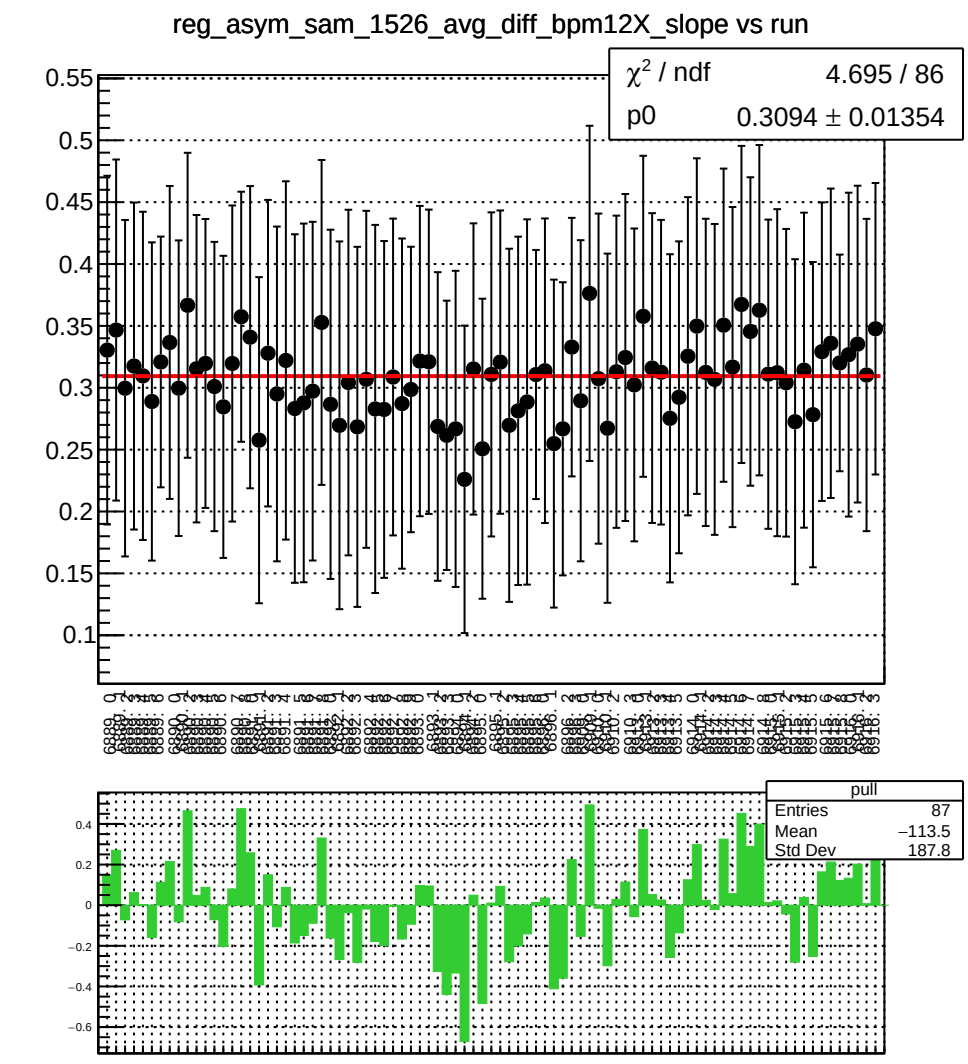

pull1D
Entries 87
Mean −0.1498
Std Dev 1.406

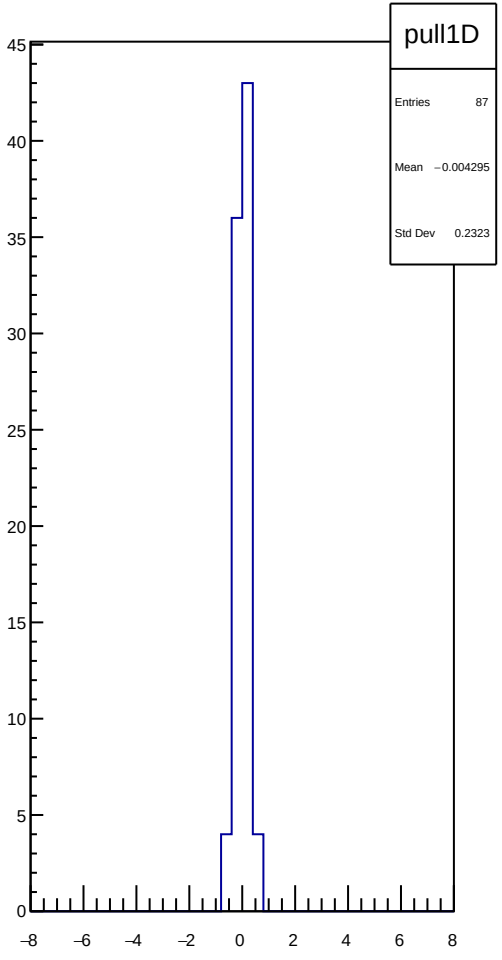

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 9 / 86
p0 2.553 ± 0.2599
pull
Entries 87
Mean 597.5
Std Dev 551.4

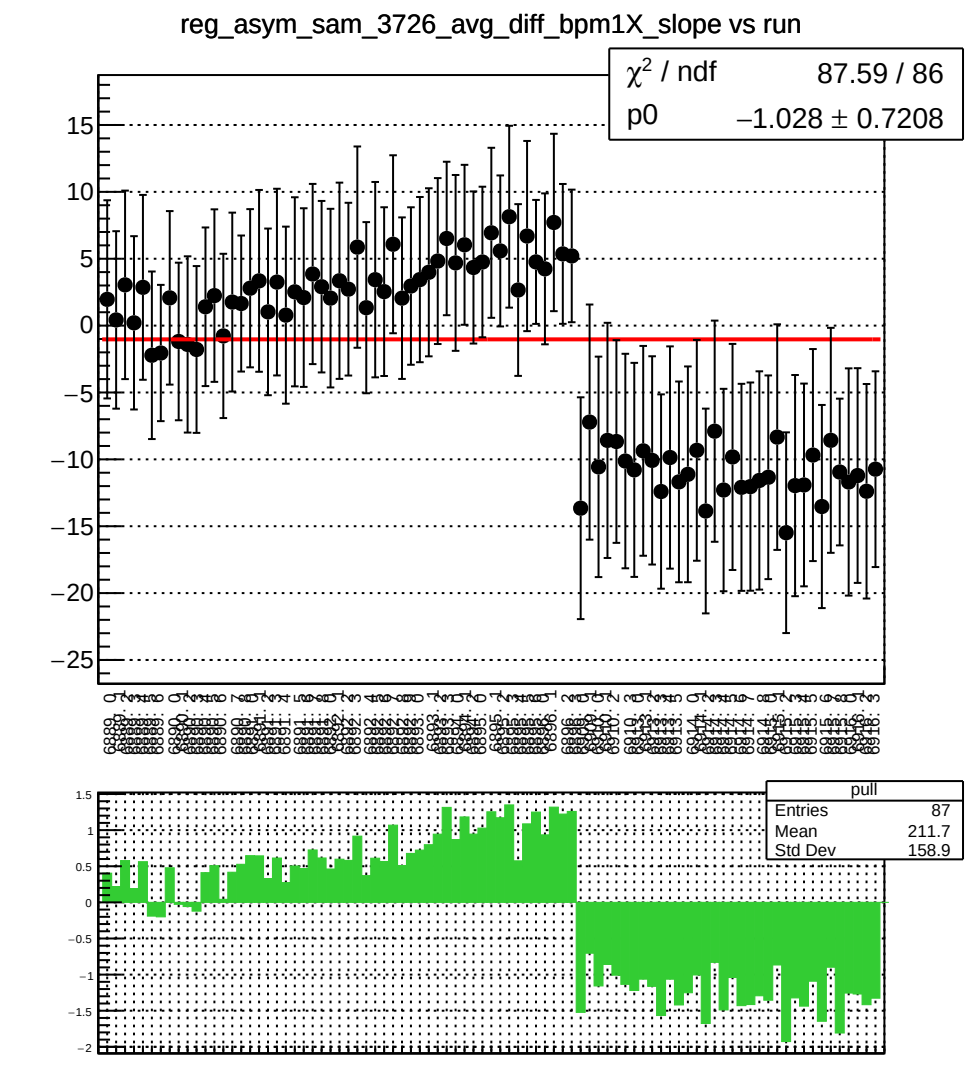

pull1D
Entries 87
Mean 0.003797
Std Dev 0.3216

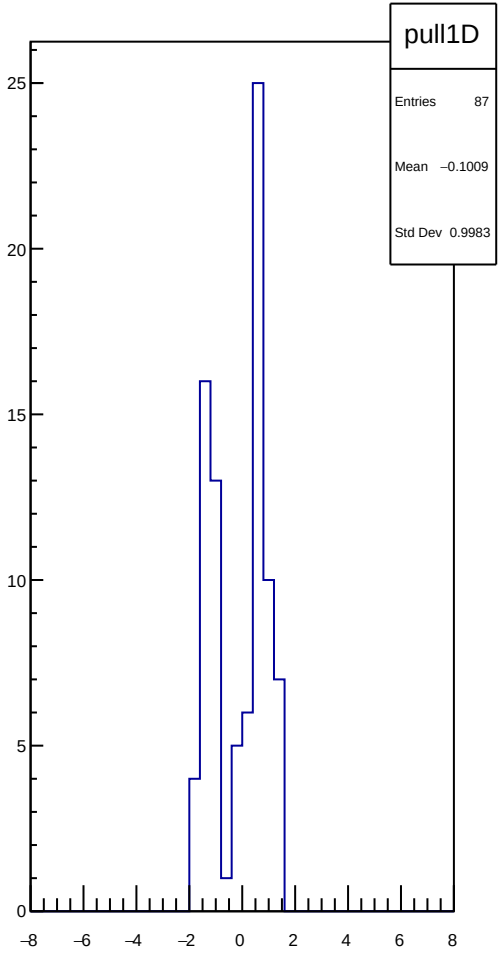

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 194.5 / 86
p0 −32.82 ± 0.3321
pull
Entries 87
Mean 247
Std Dev 193.8
pull1D
Entries 87
Mean 0.1187
Std Dev 1.49

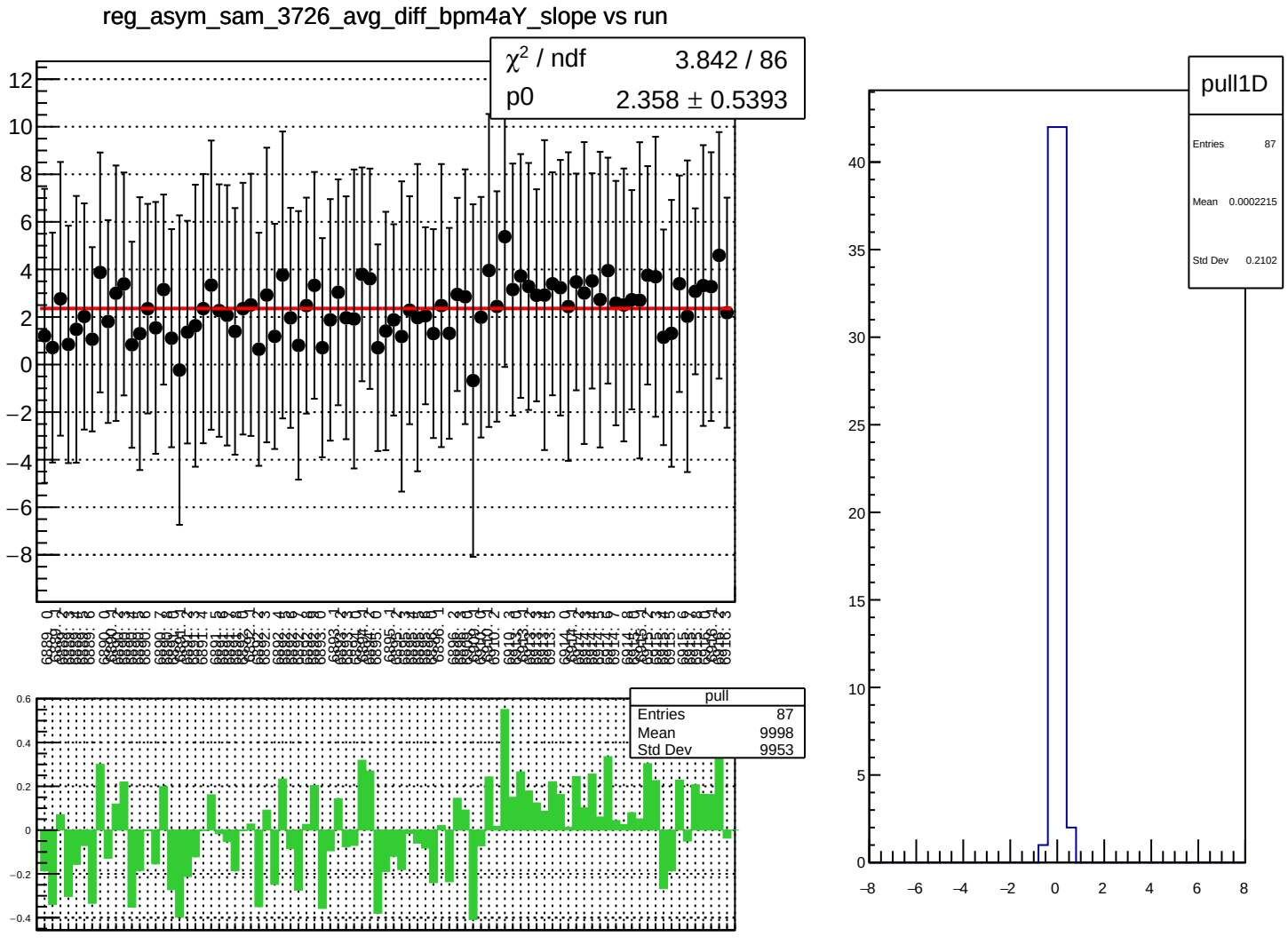

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.28 / 86
p0 4.381 ± 0.3073
pull
Entries 87
Mean 337.5
Std Dev 289.2
pull1D
Entries 87
Mean −0.01611
Std Dev 0.528

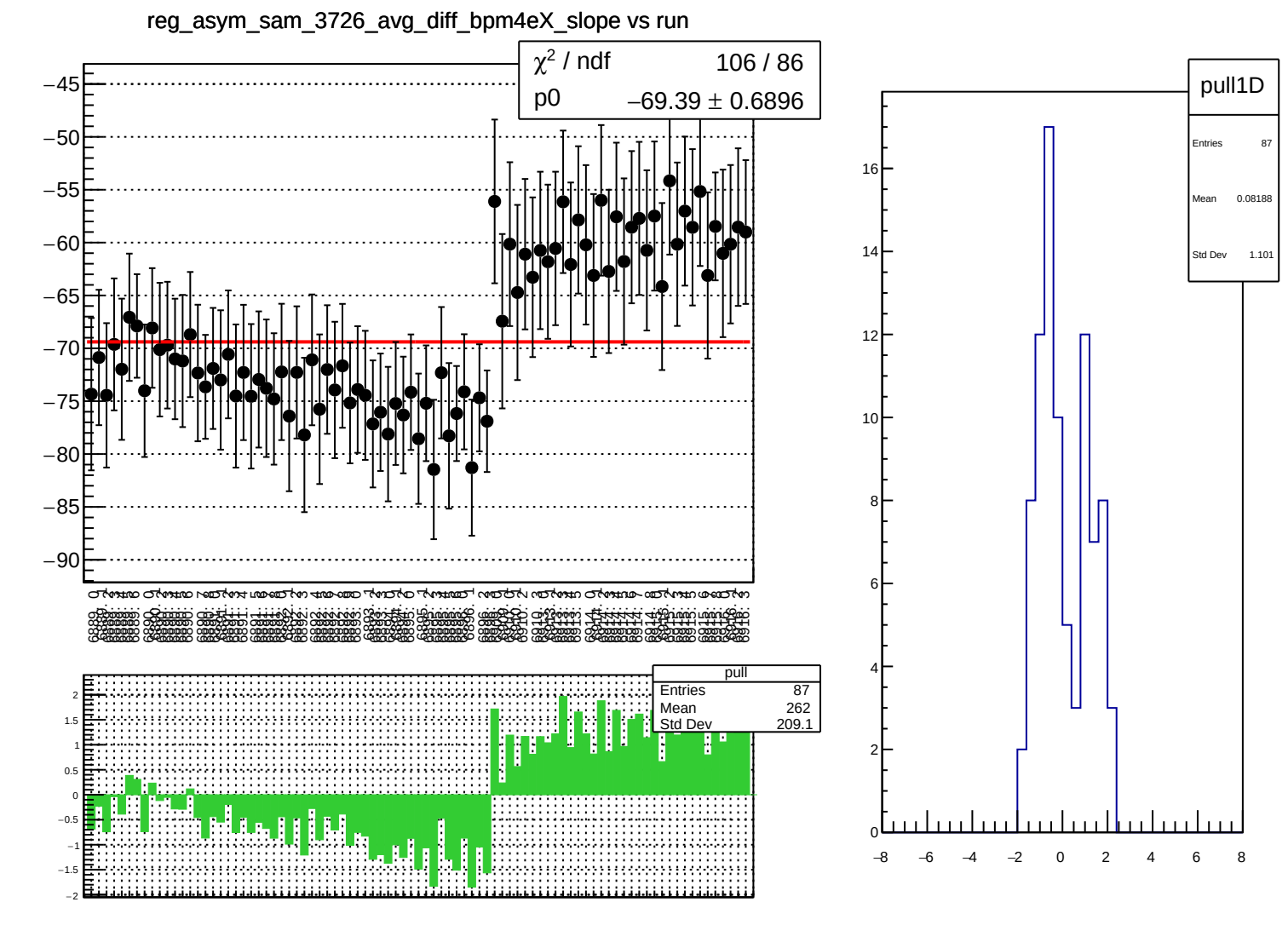

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 4.695 / 86
p0 0.3094 ± 0.01354
pull
Entries 87
Mean −113.5
Std Dev 187.8

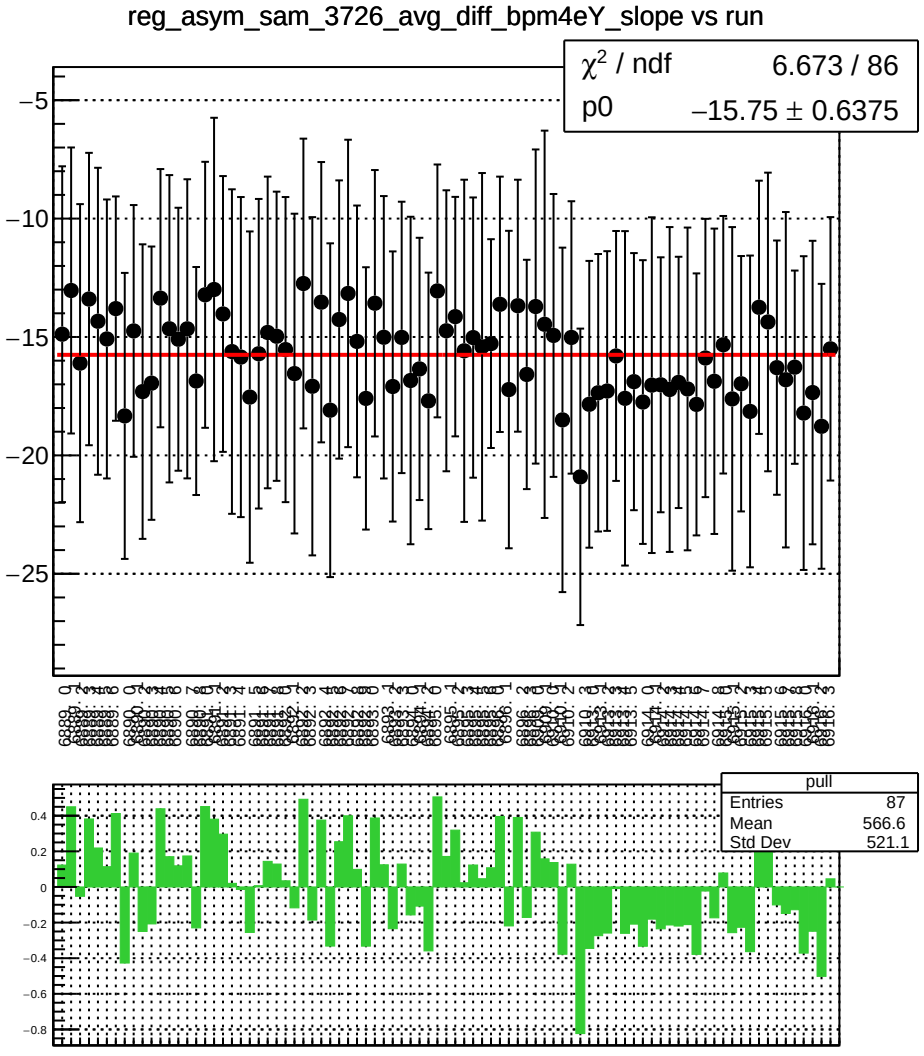

pull1D
Entries 87
Mean −0.004295
Std Dev 0.2323

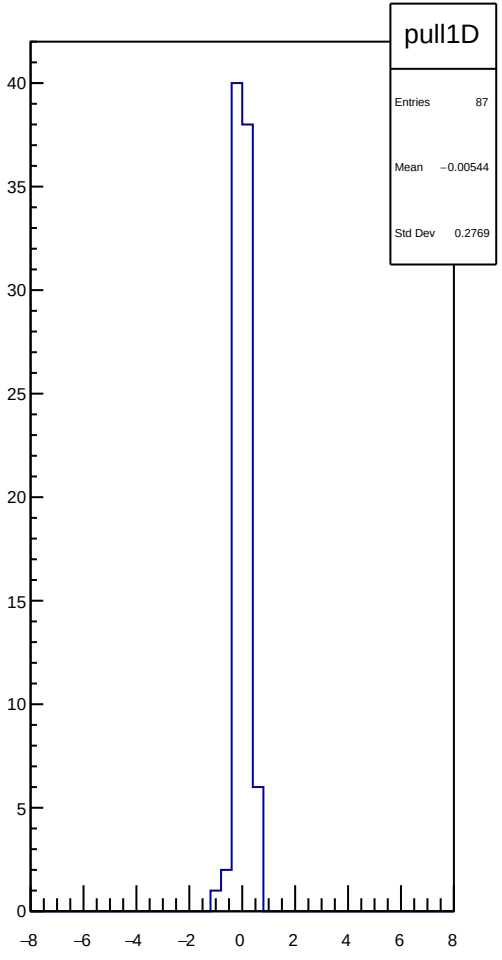

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 87.59 / 86
p0 −1.028 ± 0.7208
pull
Entries 87
Mean 211.7
Std Dev 158.9

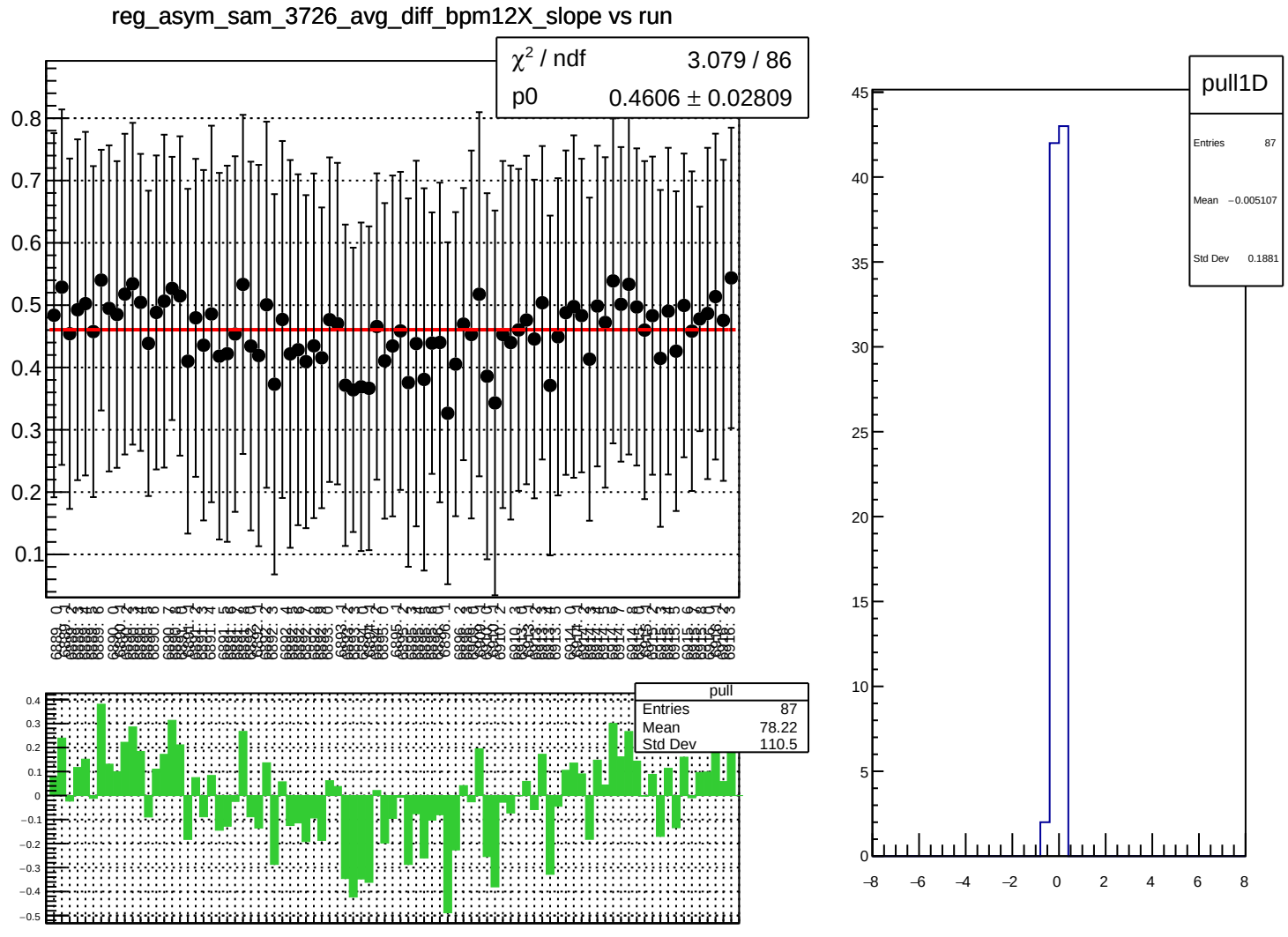

pull1D
Entries 87
Mean −0.1009
Std Dev 0.9983

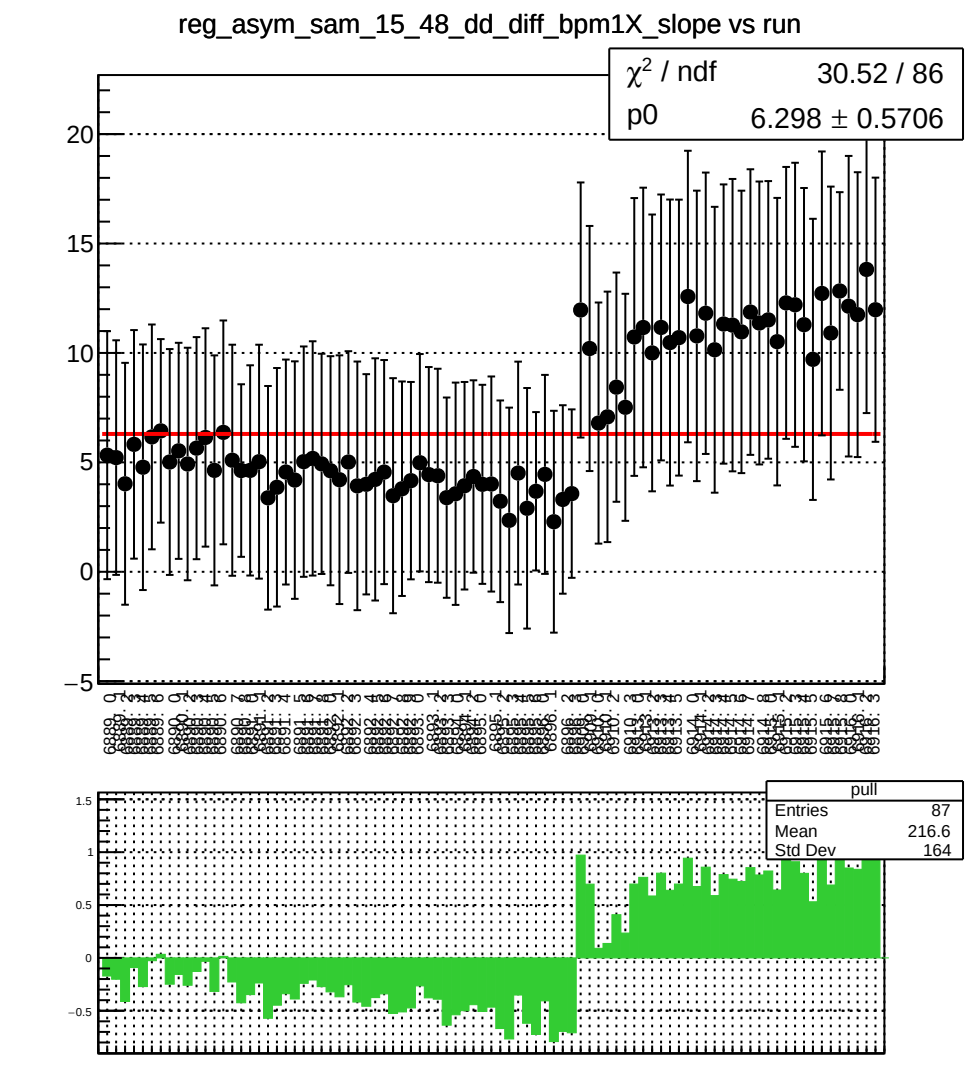

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.842 / 86
p0 2.358 ± 0.5393
pull
Entries 87
Mean 9998
Std Dev 9953
pull1D
Entries 87
Mean 0.0002215
Std Dev 0.2102

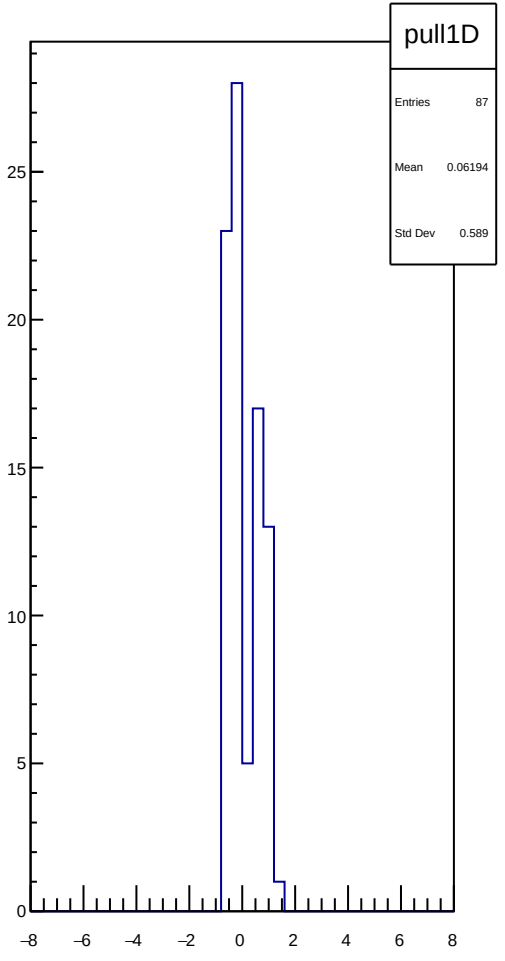

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 106 / 86
p0 −69.39 ± 0.6896
pull
Entries 87
Mean 262
Std Dev 209.1
pull1D
Entries 87
Mean 0.08188
Std Dev 1.101

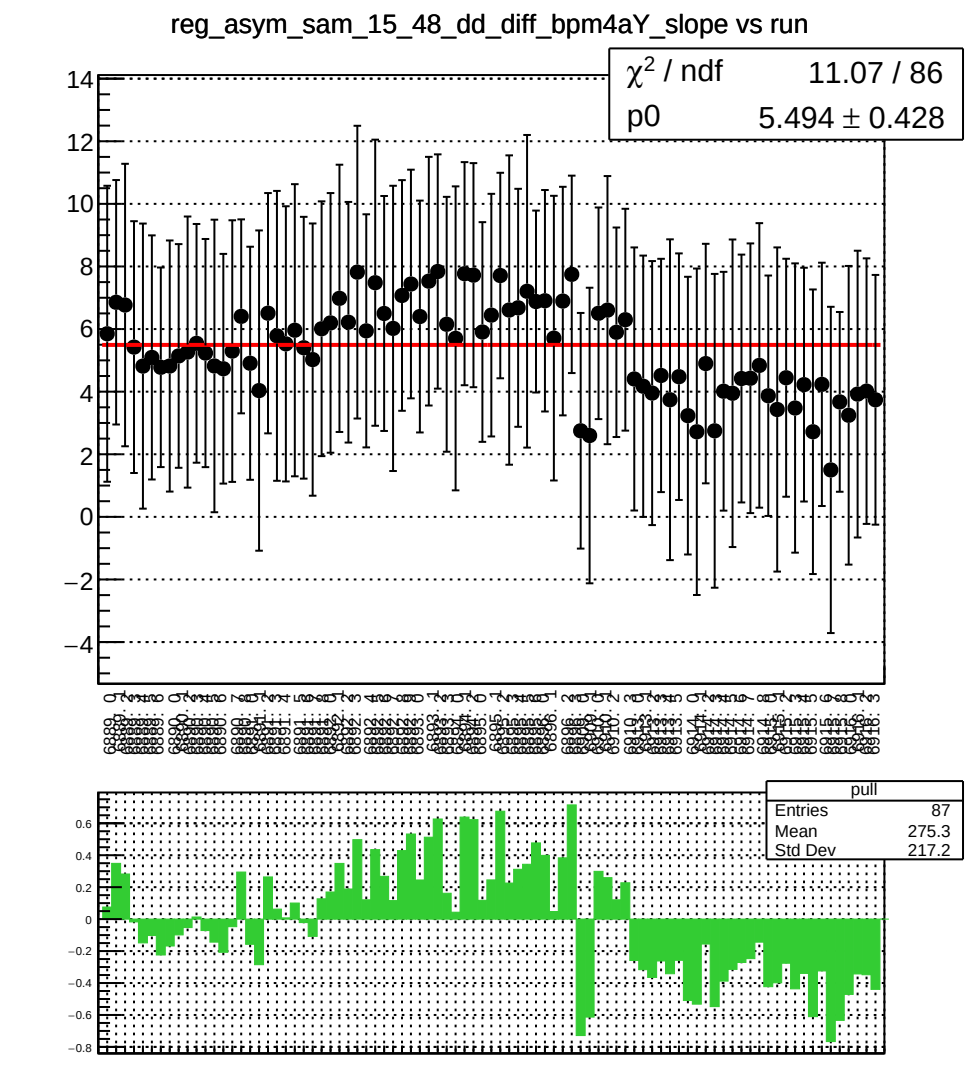

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.673 / 86
p0 −15.75 ± 0.6375
pull
Entries 87
Mean 566.6
Std Dev 521.1

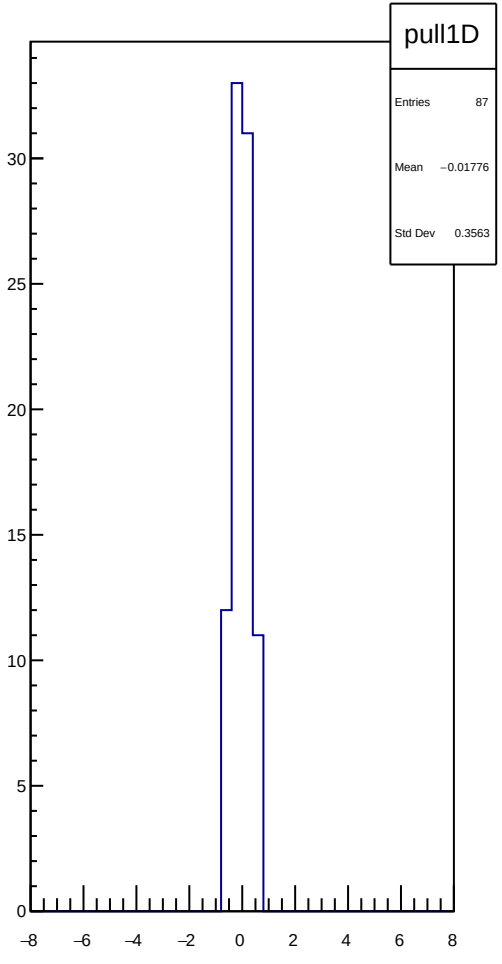

pull1D
Entries 87
Mean −0.00544
Std Dev 0.2769

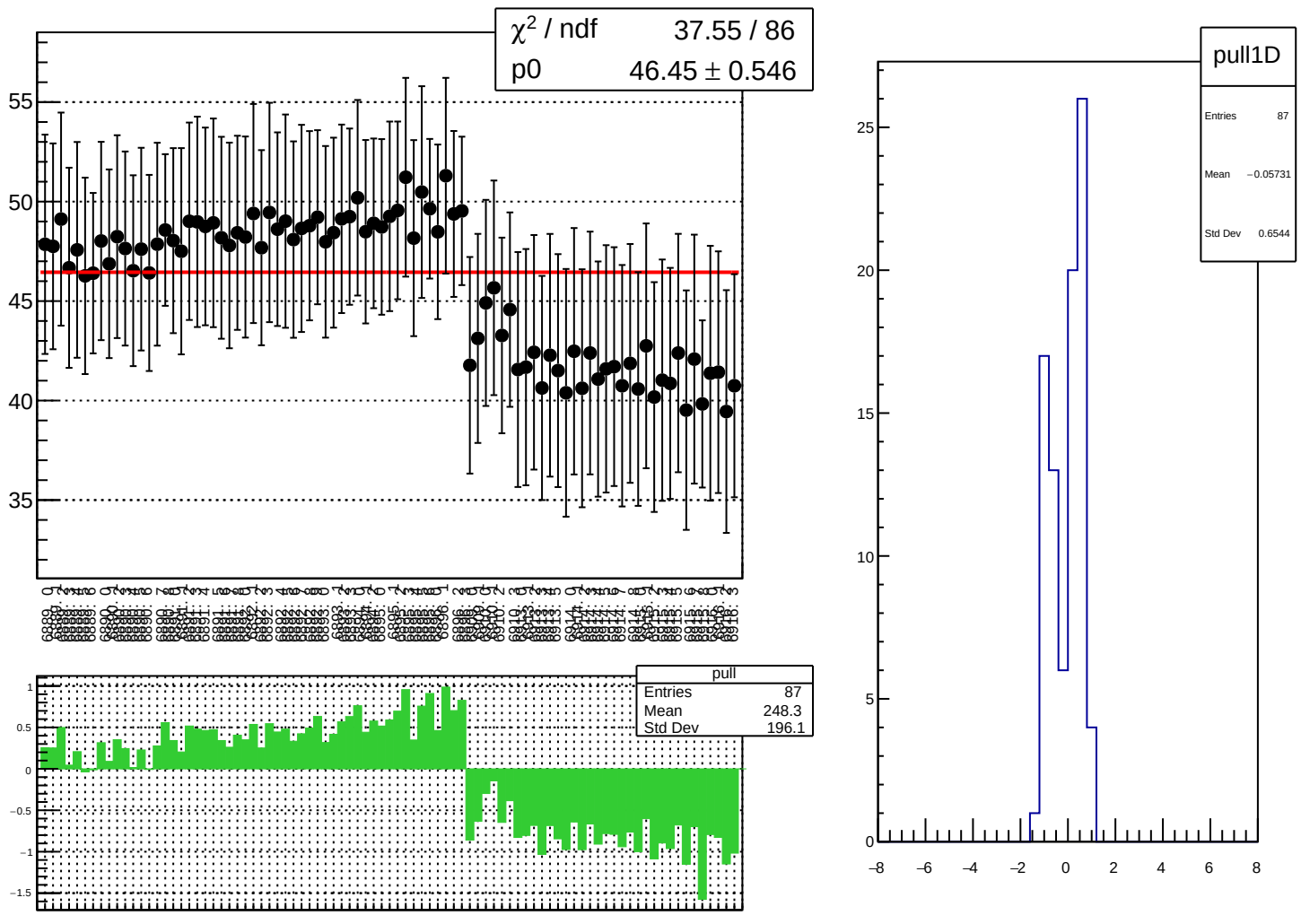

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 3.079 / 86
p0 0.4606 ± 0.02809
pull
Entries 87
Mean 78.22
Std Dev 110.5
pull1D
Entries 87
Mean −0.005107
Std Dev 0.1881

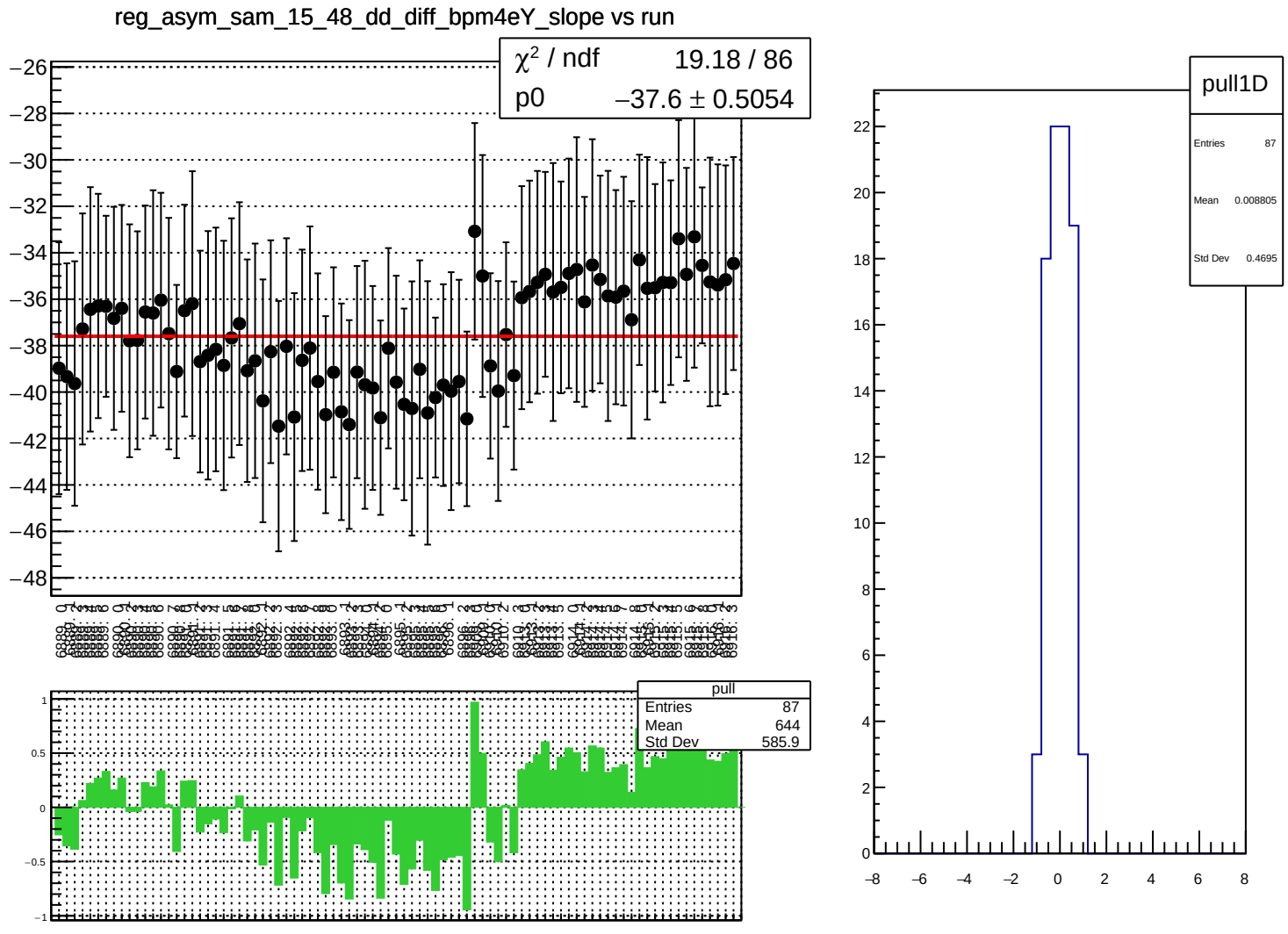

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 30.52 / 86
p0 6.298 ± 0.5706
pull
Entries 87
Mean 216.6
Std Dev 164

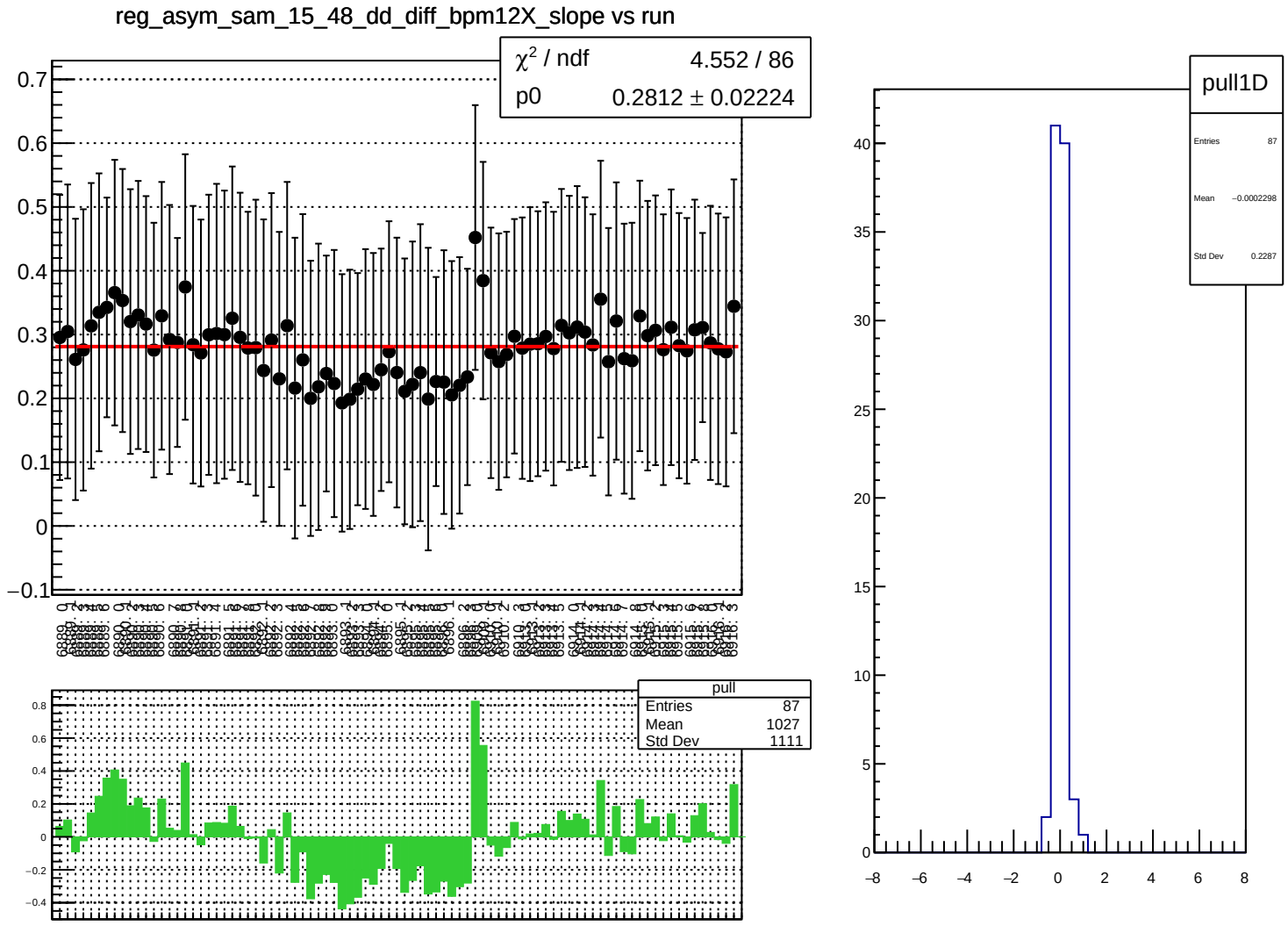

pull1D
Entries 87
Mean 0.06194
Std Dev 0.589

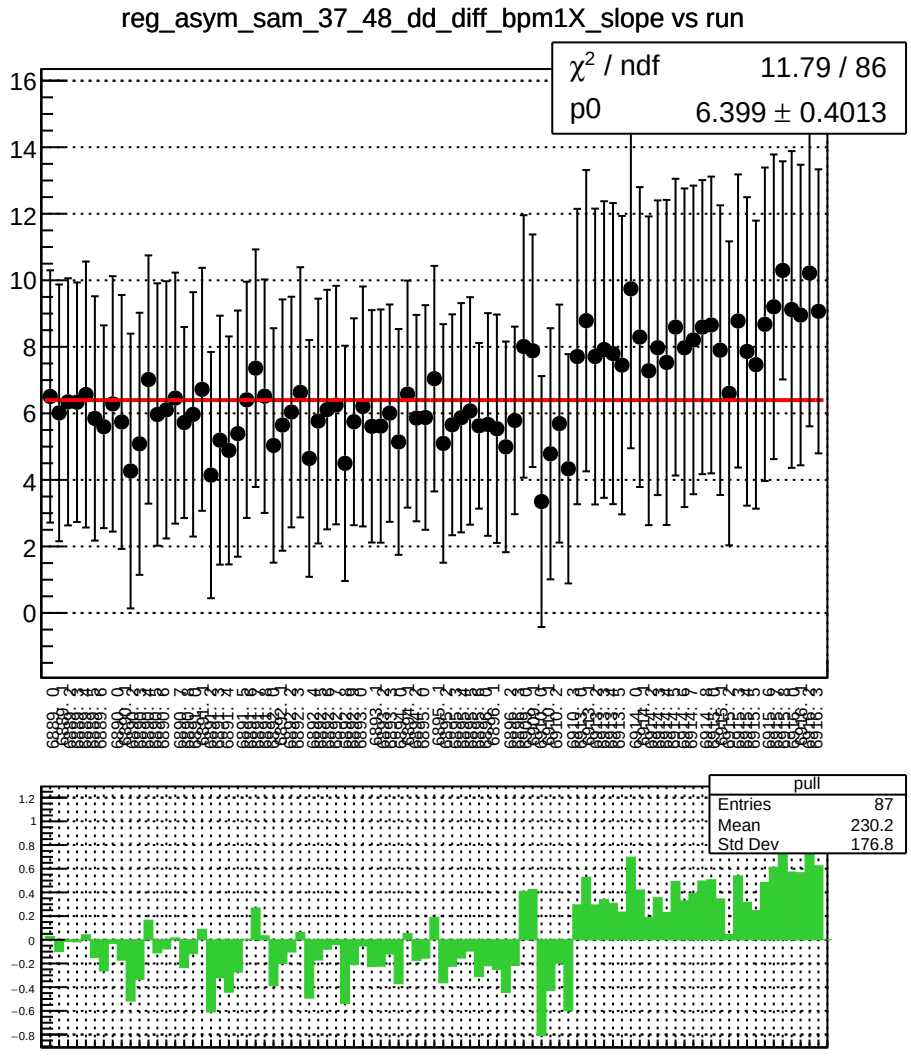

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.07 / 86
p0 5.494 ± 0.428
pull
Entries 87
Mean 275.3
Std Dev 217.2

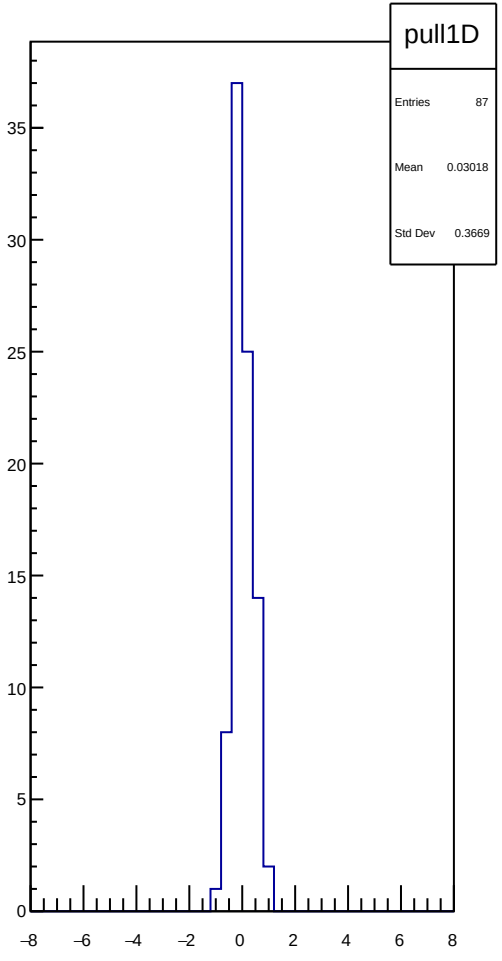

pull1D
Entries 87
Mean −0.01776
Std Dev 0.3563

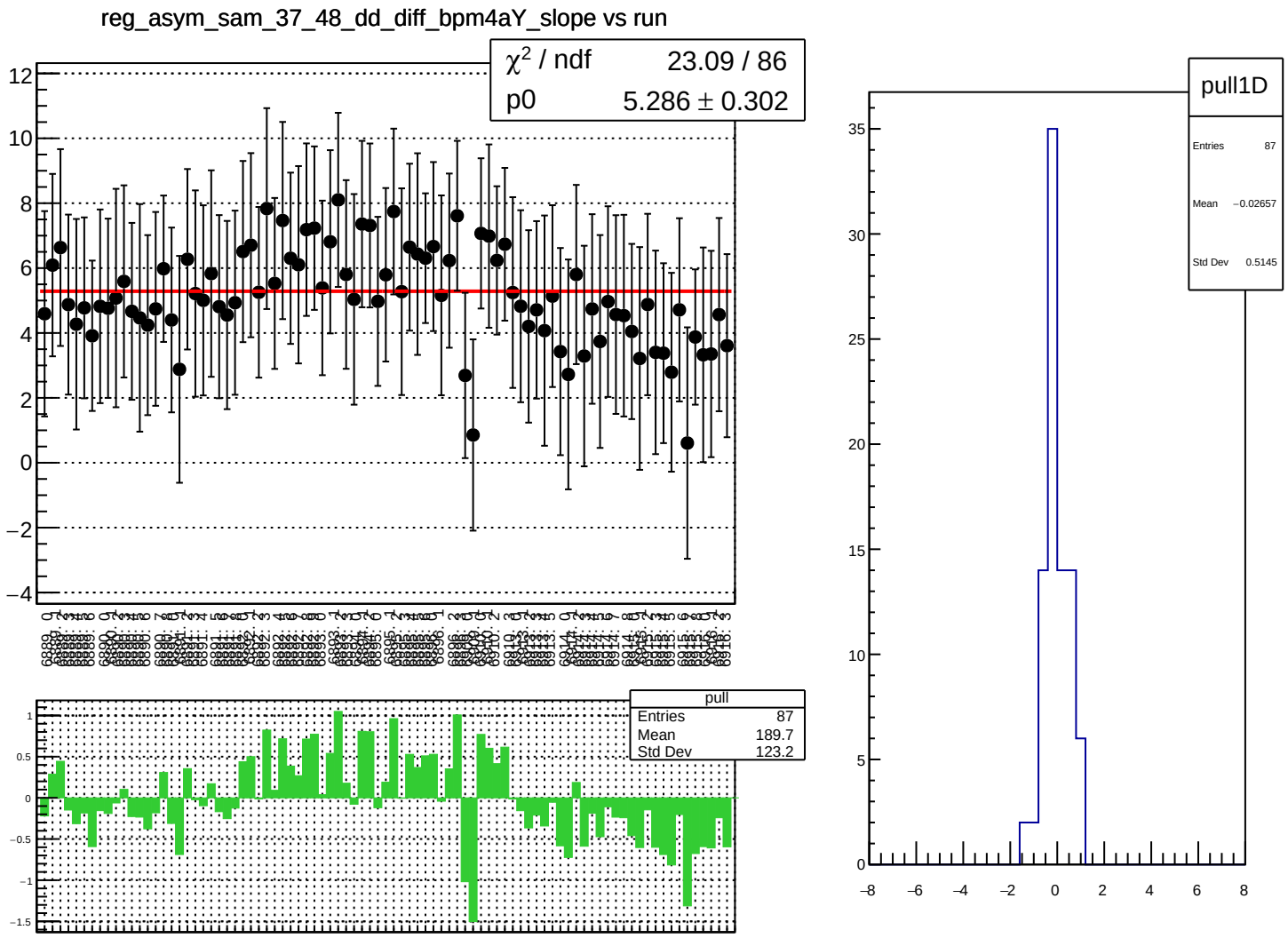

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.55 / 86
p0 46.45 ± 0.546
55
50
45
40
35
pull
Entries 87
Mean 248.3
Std Dev 196.1
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean −0.05731
Std Dev 0.6544
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

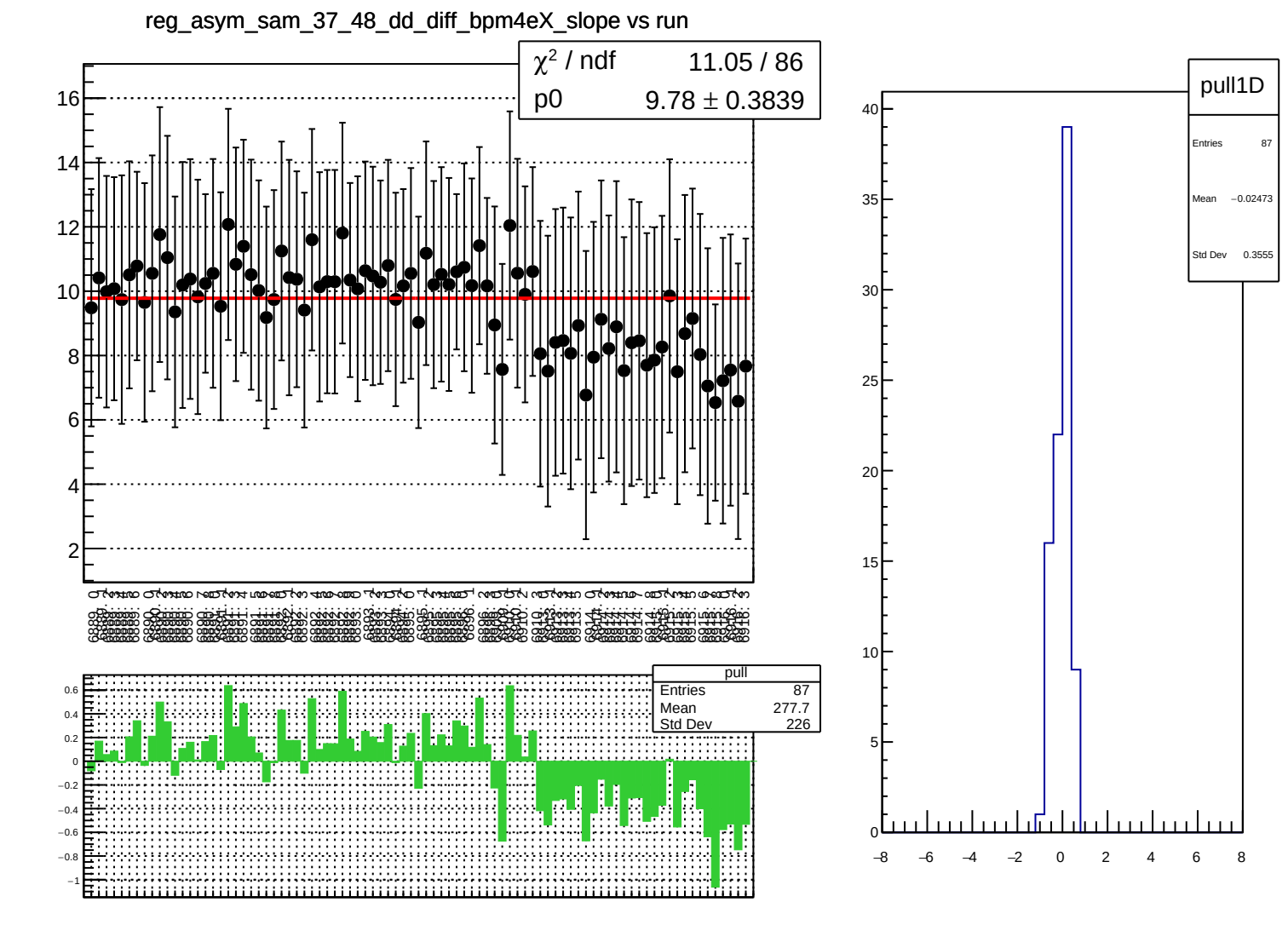

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.18 / 86
p0 −37.6 ± 0.5054
pull
Entries 87
Mean 644
Std Dev 585.9
pull1D
Entries 87
Mean 0.008805
Std Dev 0.4695

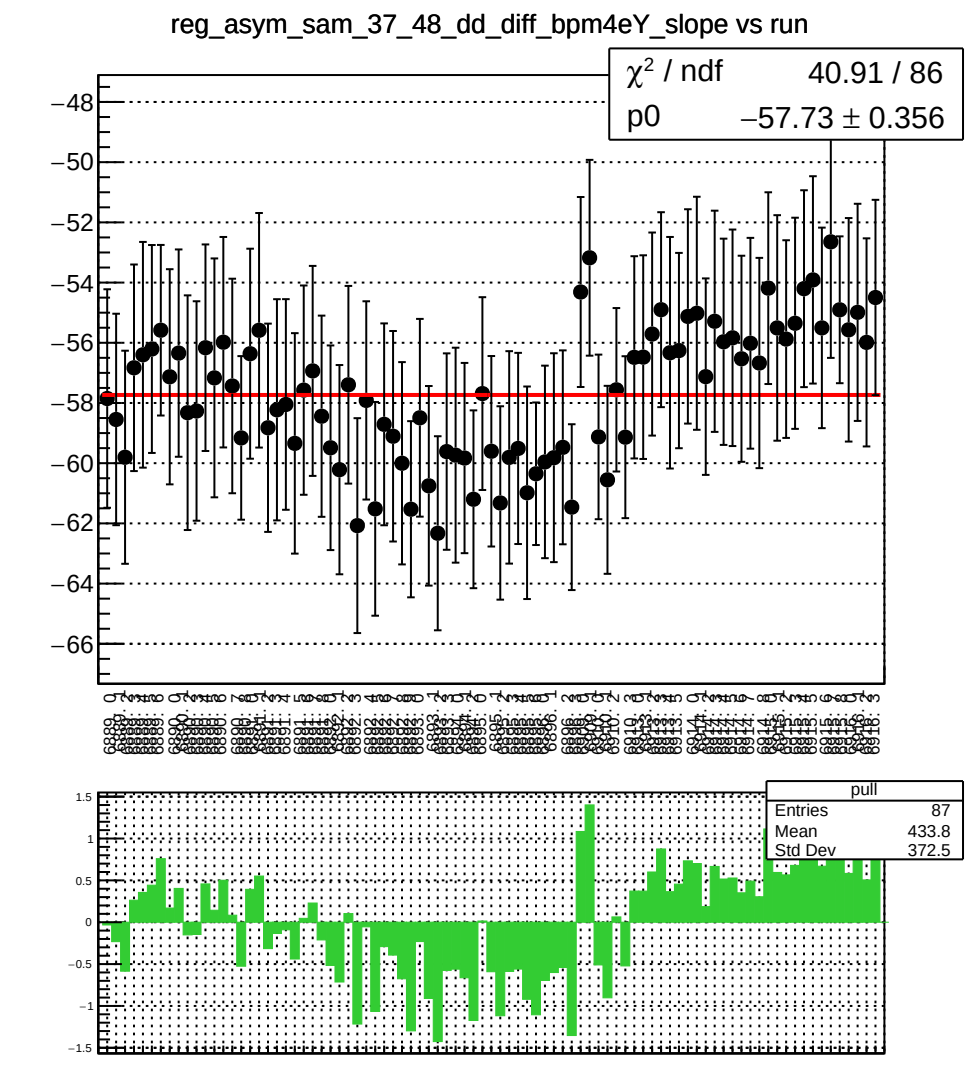

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.552 / 86
p0 0.2812 ± 0.02224
pull
Entries 87
Mean 1027
Std Dev 1111
pull1D
Entries 87
Mean −0.0002298
Std Dev 0.2287

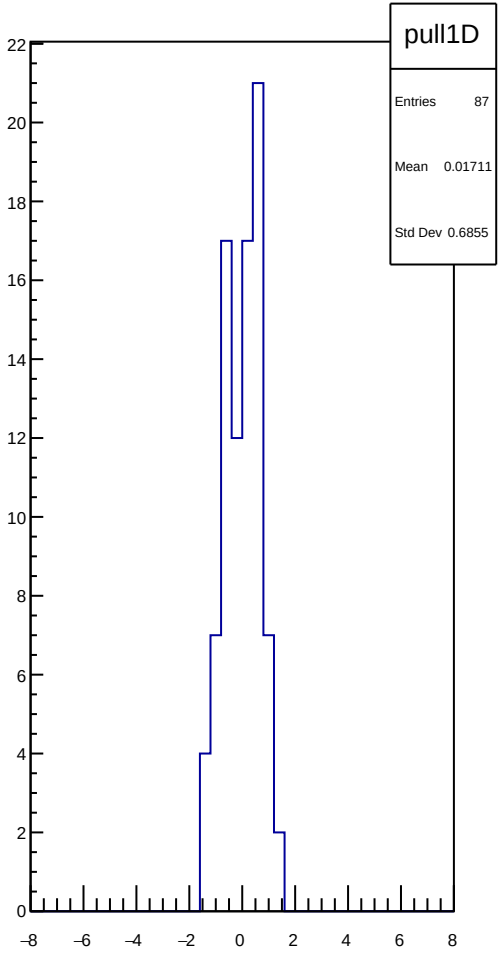

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 11.79 / 86
p0 6.399 ± 0.4013
pull
Entries 87
Mean 230.2
Std Dev 176.8

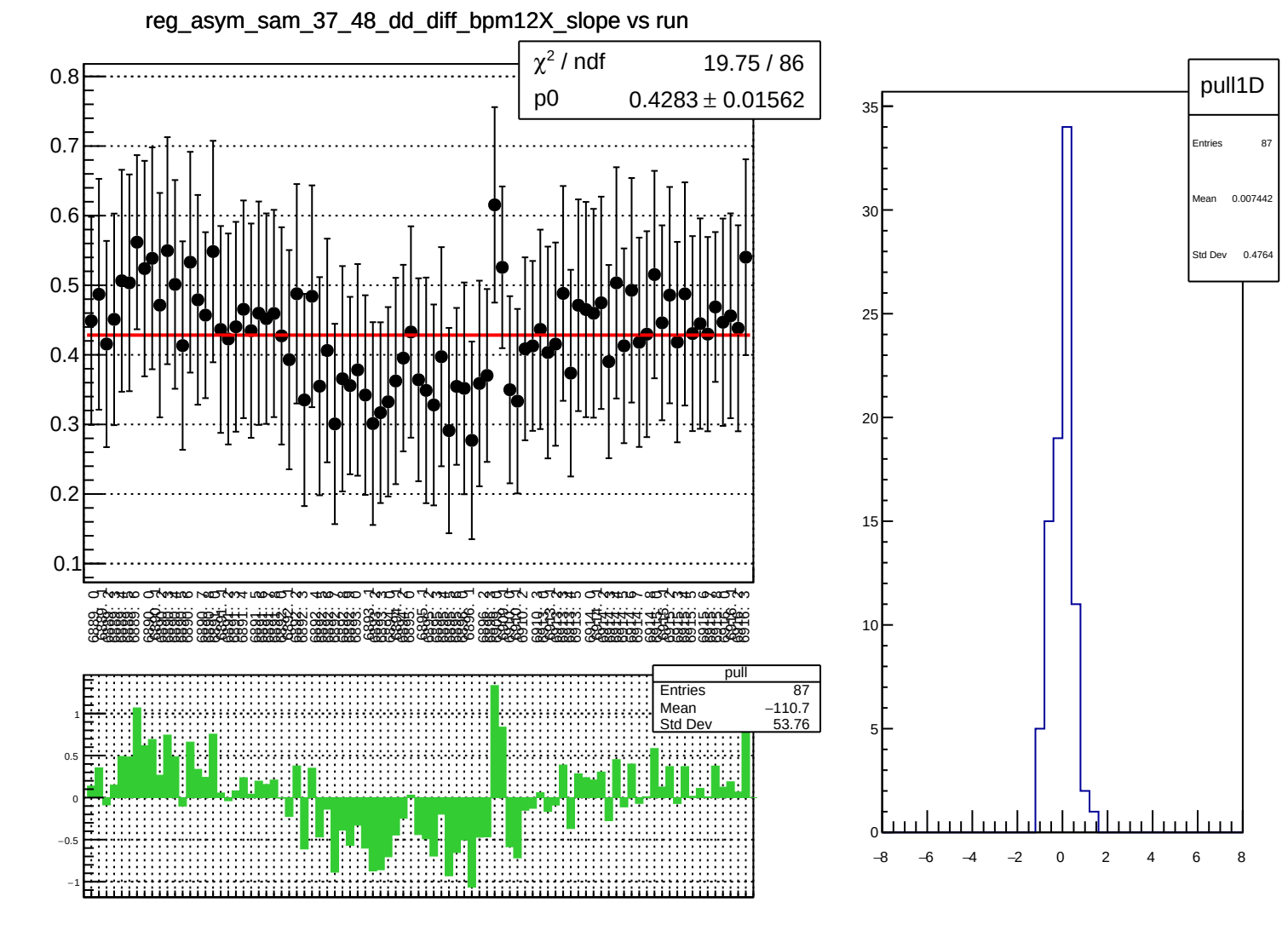

pull1D
Entries 87
Mean 0.03018
Std Dev 0.3669

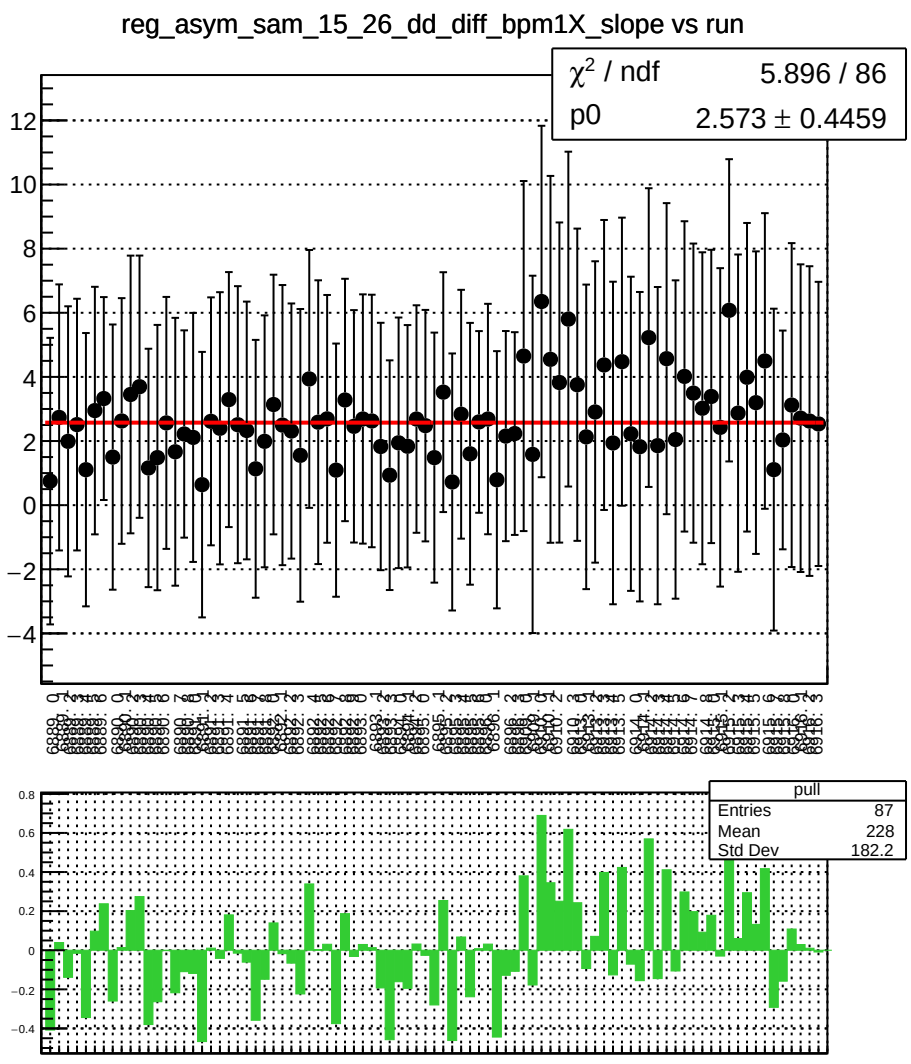

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.09 / 86
p0 5.286 ± 0.302
pull
Entries 87
Mean 189.7
Std Dev 123.2
pull1D
Entries 87
Mean −0.02657
Std Dev 0.5145

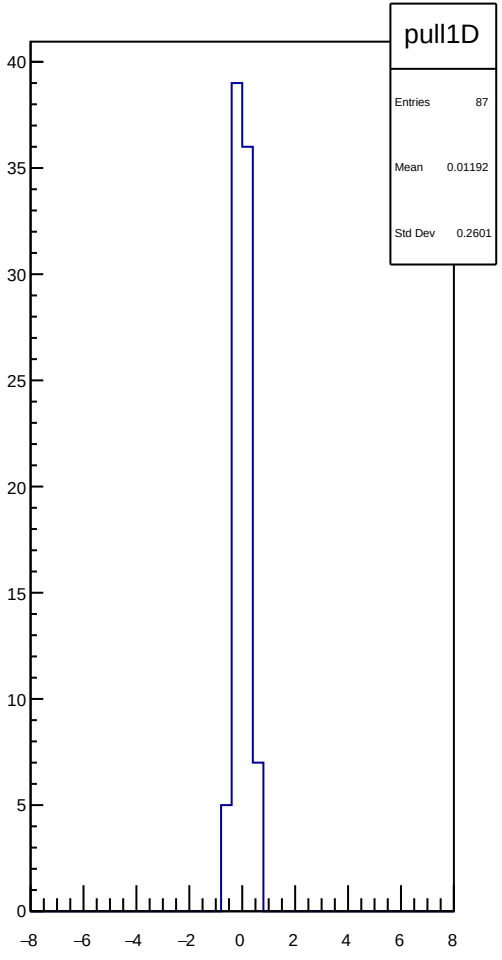

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.05 / 86
p0 9.78 ± 0.3839
pull
Entries 87
Mean 277.7
Std Dev 226
pull1D
Entries 87
Mean −0.02473
Std Dev 0.3555

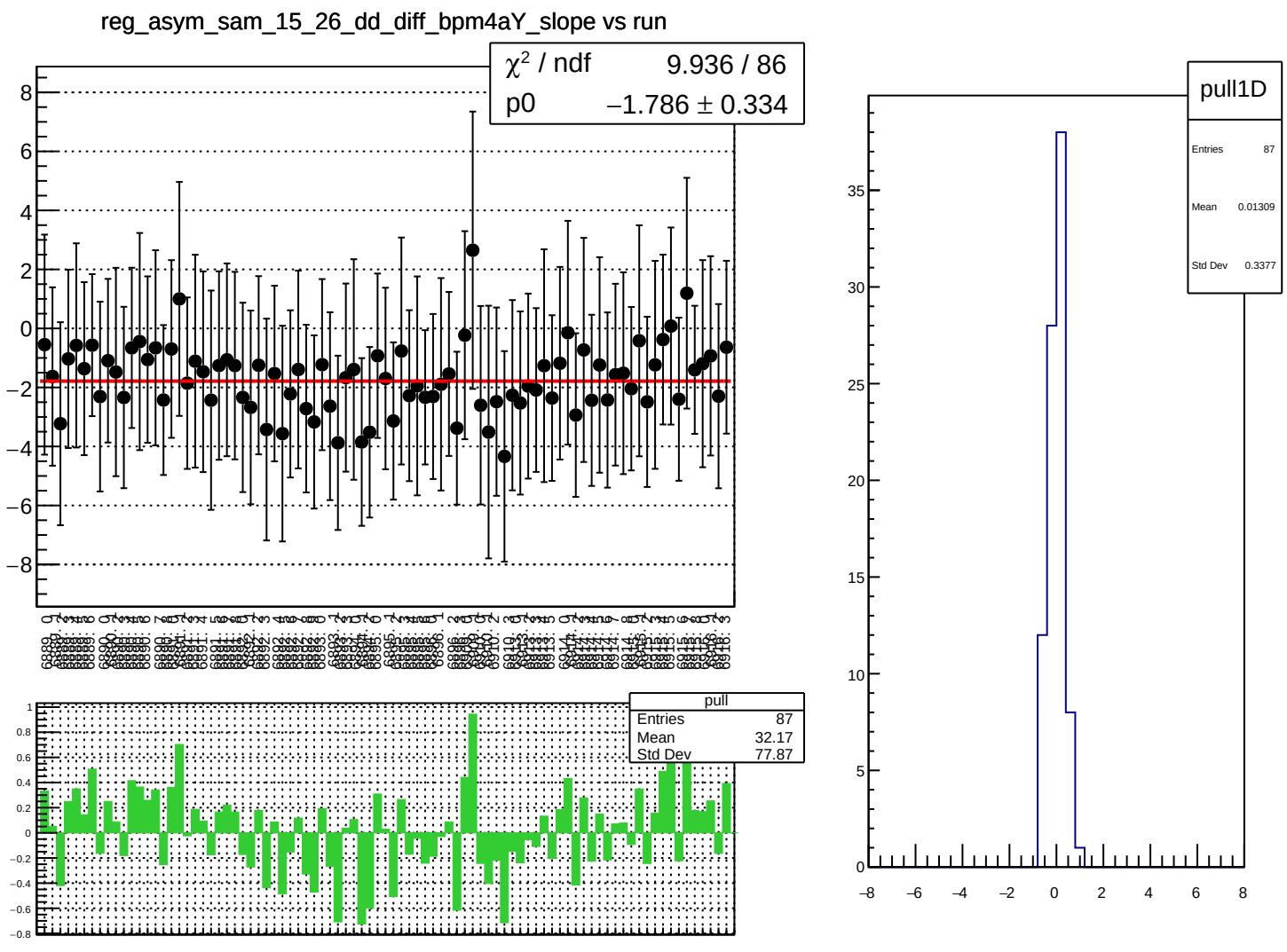

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.91 / 86
p0 −57.73 ± 0.356
pull
Entries 87
Mean 433.8
Std Dev 372.5

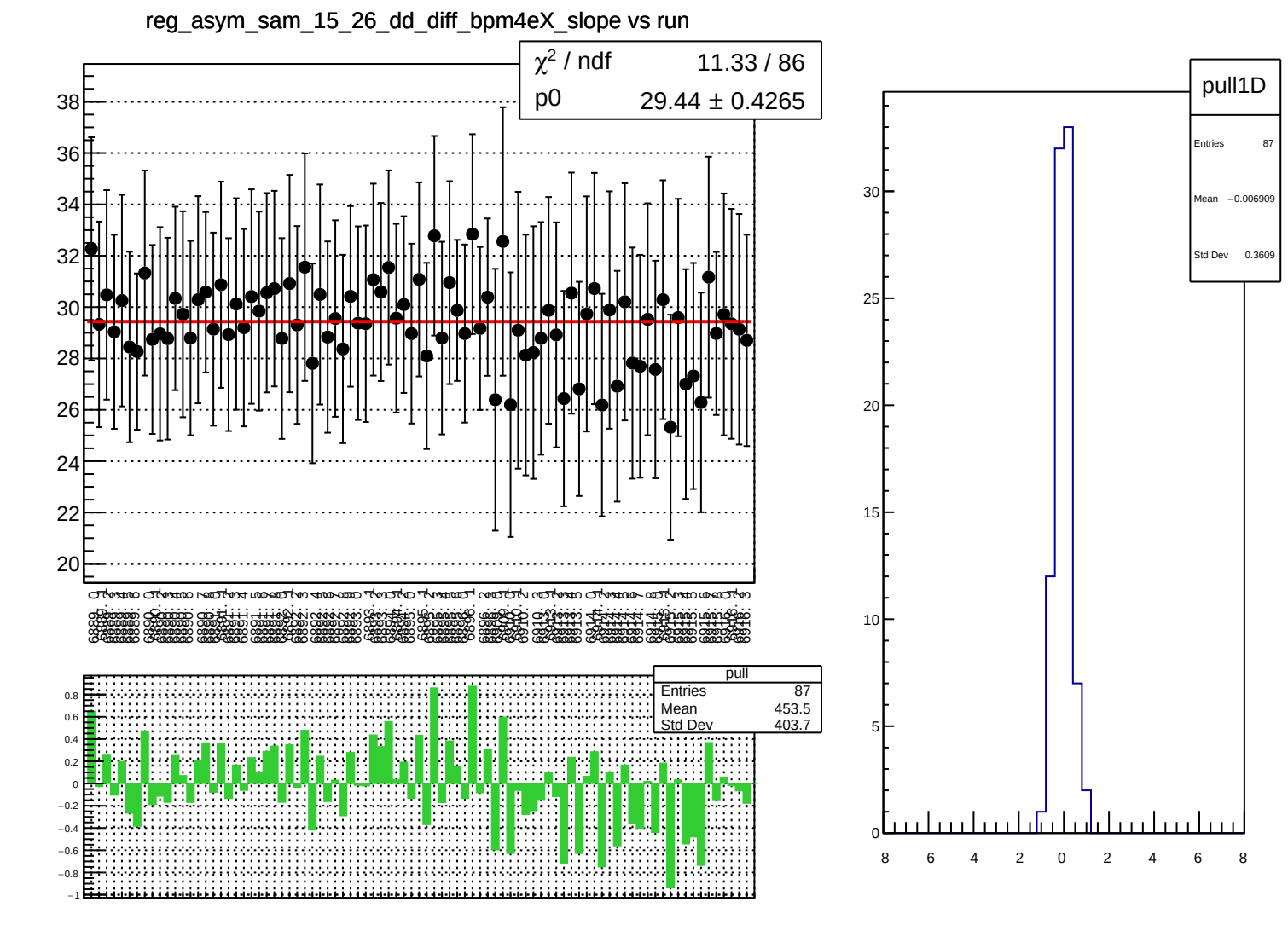

pull1D
Entries 87
Mean 0.01711
Std Dev 0.6855

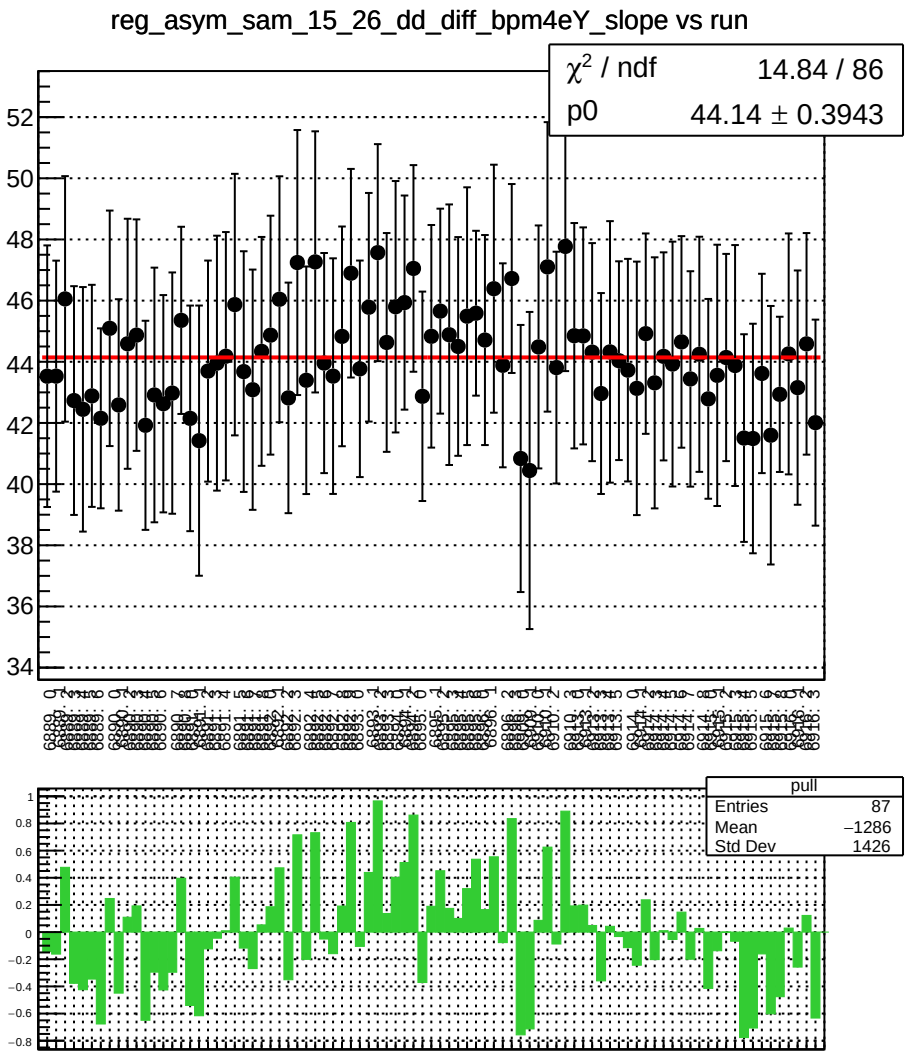

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 19.75 / 86
p0 0.4283 ± 0.01562
pull
Entries 87
Mean −110.7
Std Dev 53.76
pull1D
Entries 87
Mean 0.007442
Std Dev 0.4764

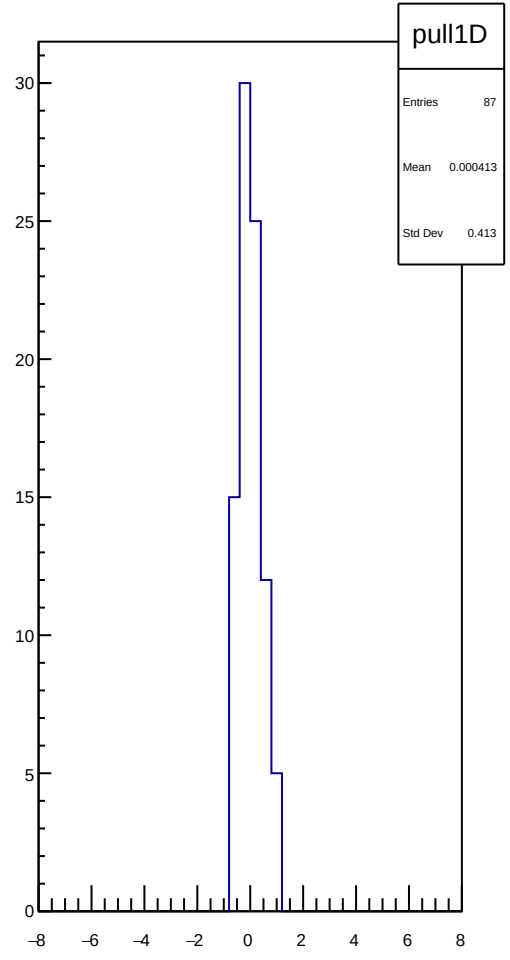

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 5.896 / 86
p0 2.573 ± 0.4459
pull
Entries 87
Mean 228
Std Dev 182.2

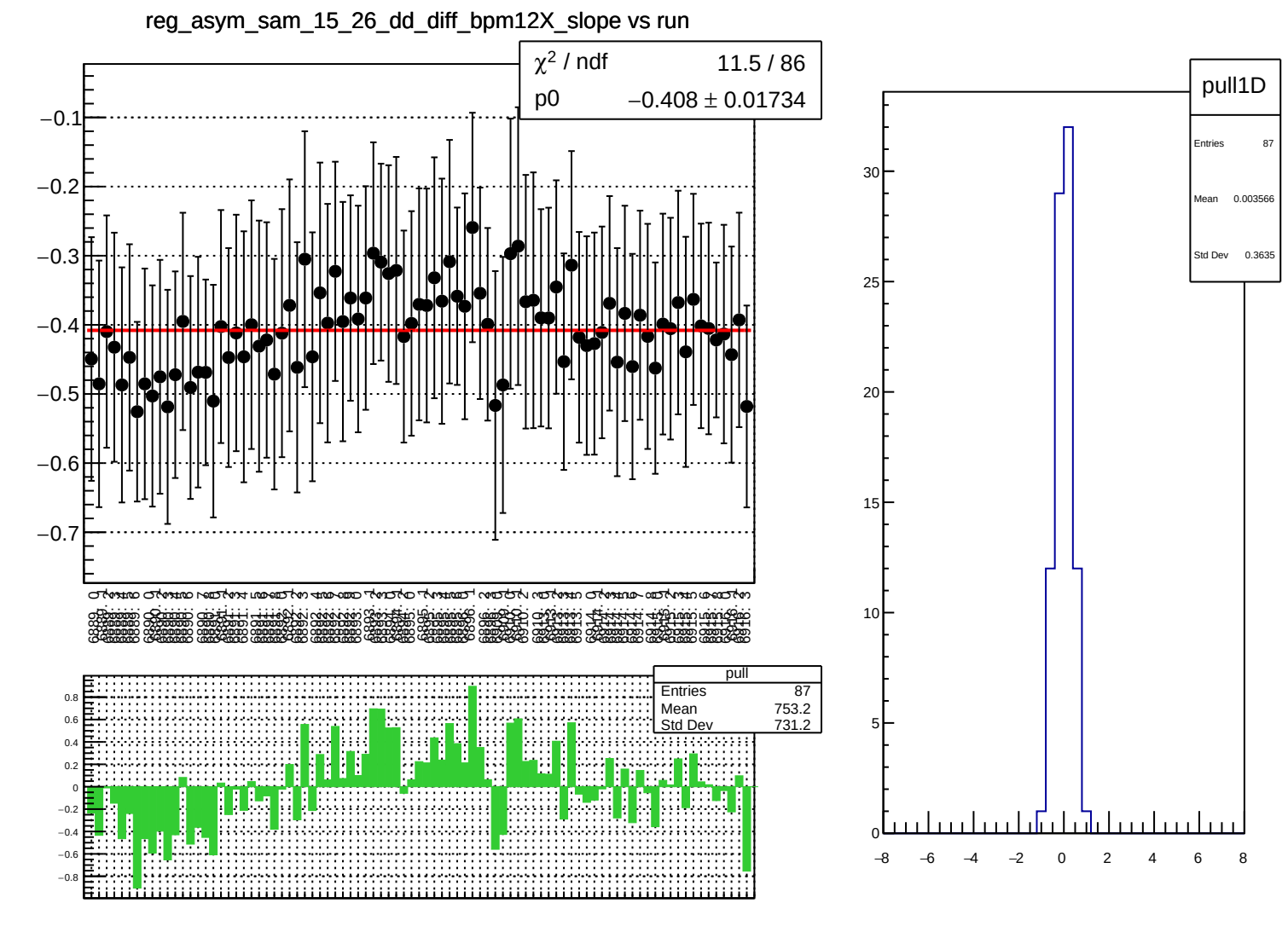

pull1D
Entries 87
Mean 0.01192
Std Dev 0.2601

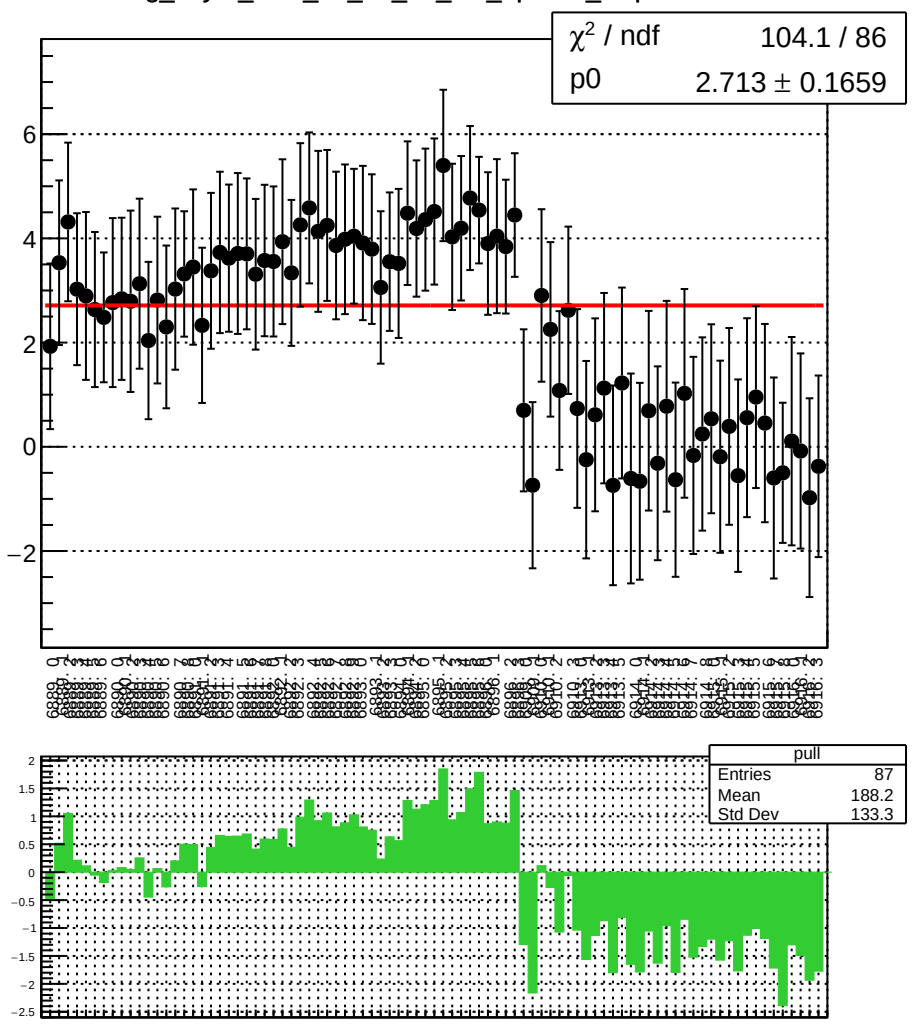

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.936 / 86
p0 −1.786 ± 0.334
pull
Entries 87
Mean 32.17
Std Dev 77.87
pull1D
Entries 87
Mean 0.01309
Std Dev 0.3377

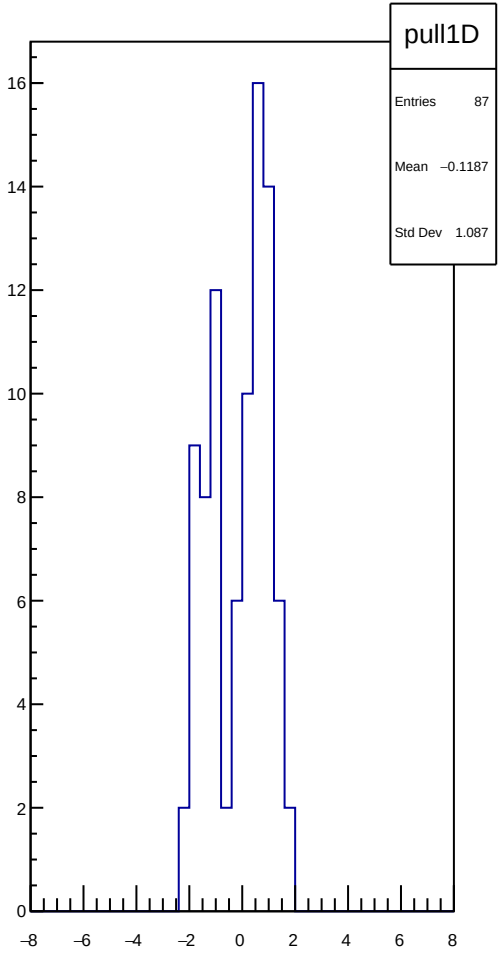

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.33 / 86
p0 29.44 ± 0.4265
pull
Entries 87
Mean 453.5
Std Dev 403.7
pull1D
Entries 87
Mean −0.006909
Std Dev 0.3609

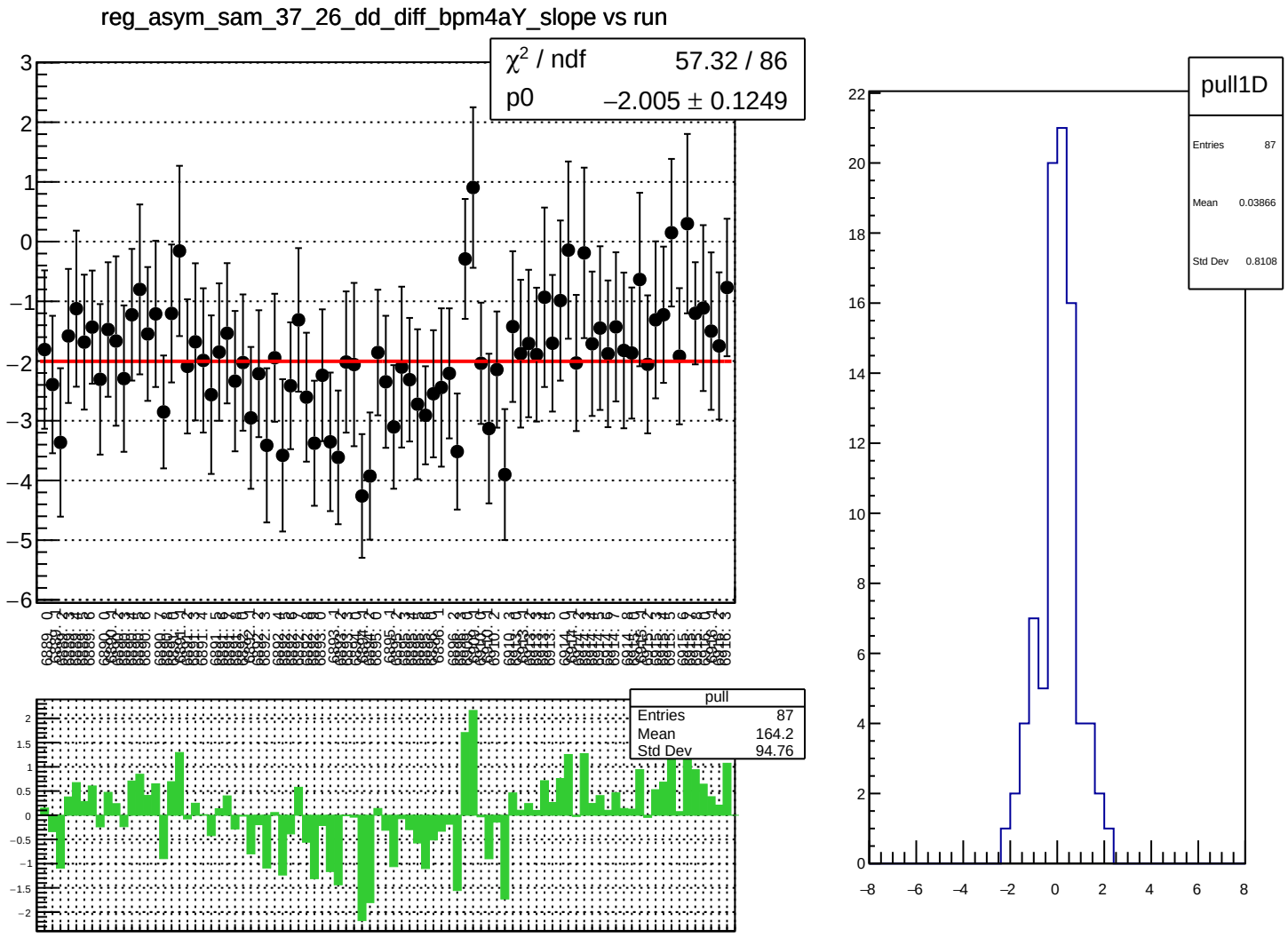

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.84 / 86
p0 44.14 ± 0.3943
pull
Entries 87
Mean −1286
Std Dev 1426

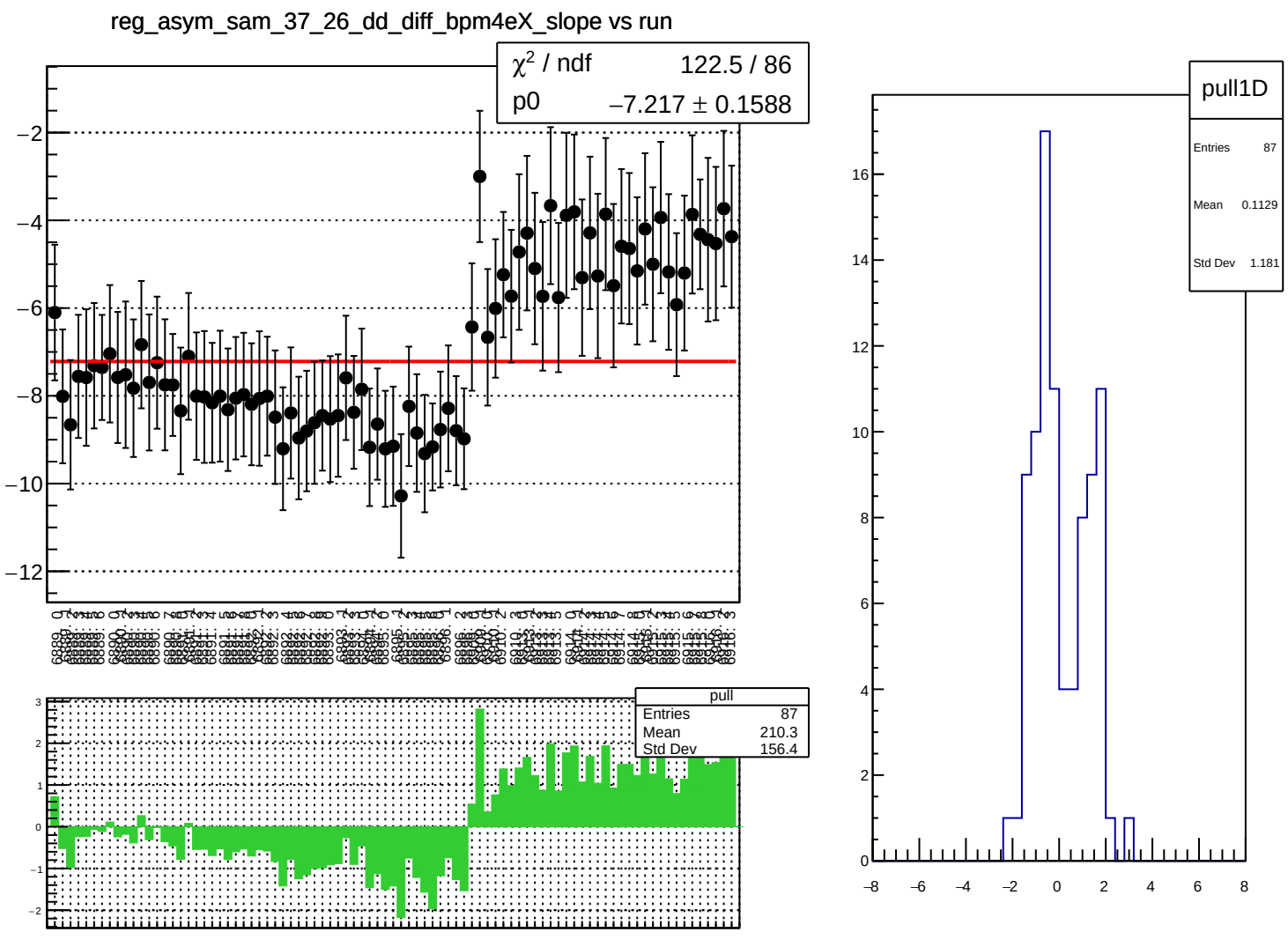

pull1D
Entries 87
Mean 0.000413
Std Dev 0.413

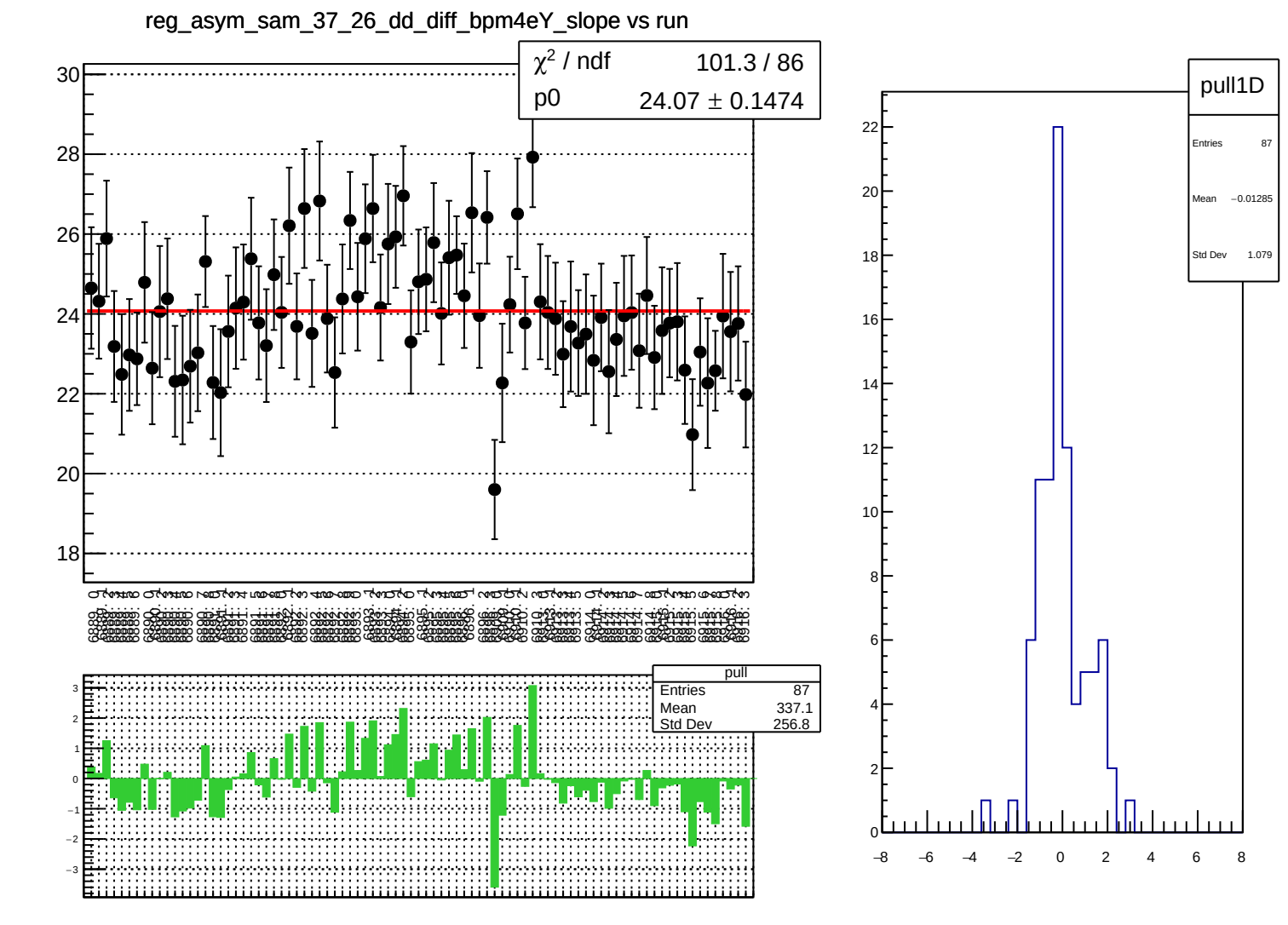

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 11.5 / 86
p0 −0.408 ± 0.01734
pull
Entries 87
Mean 753.2
Std Dev 731.2
pull1D
Entries 87
Mean 0.003566
Std Dev 0.3635

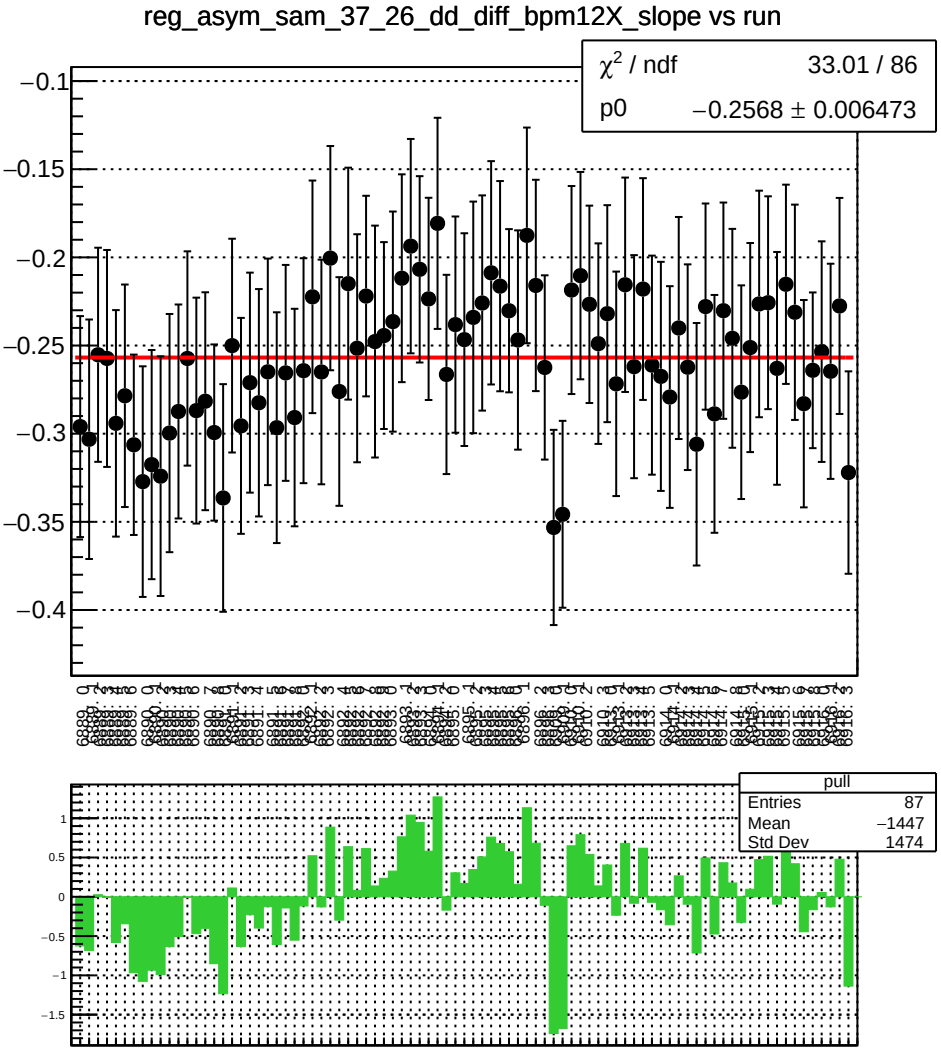

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 104.1 / 86
p0 2.713 ± 0.1659
pull
Entries 87
Mean 188.2
Std Dev 133.3

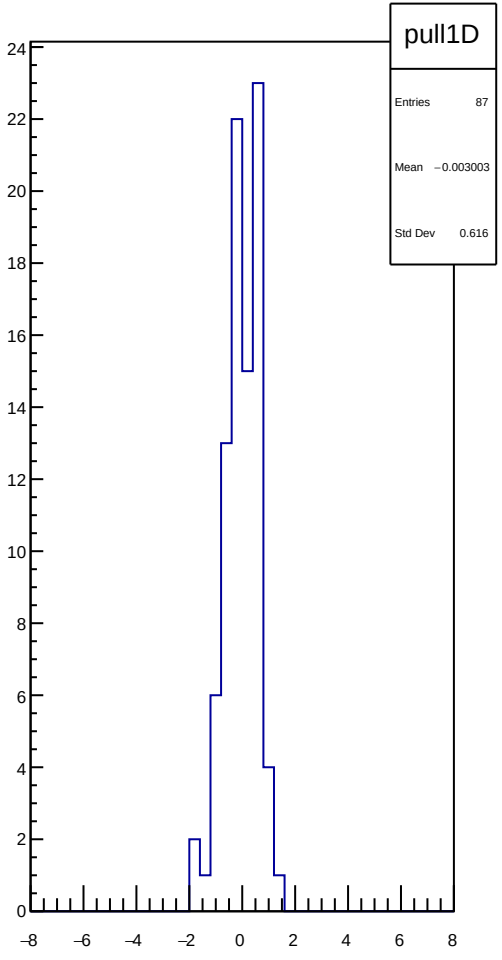

pull1D
Entries 87
Mean −0.1187
Std Dev 1.087

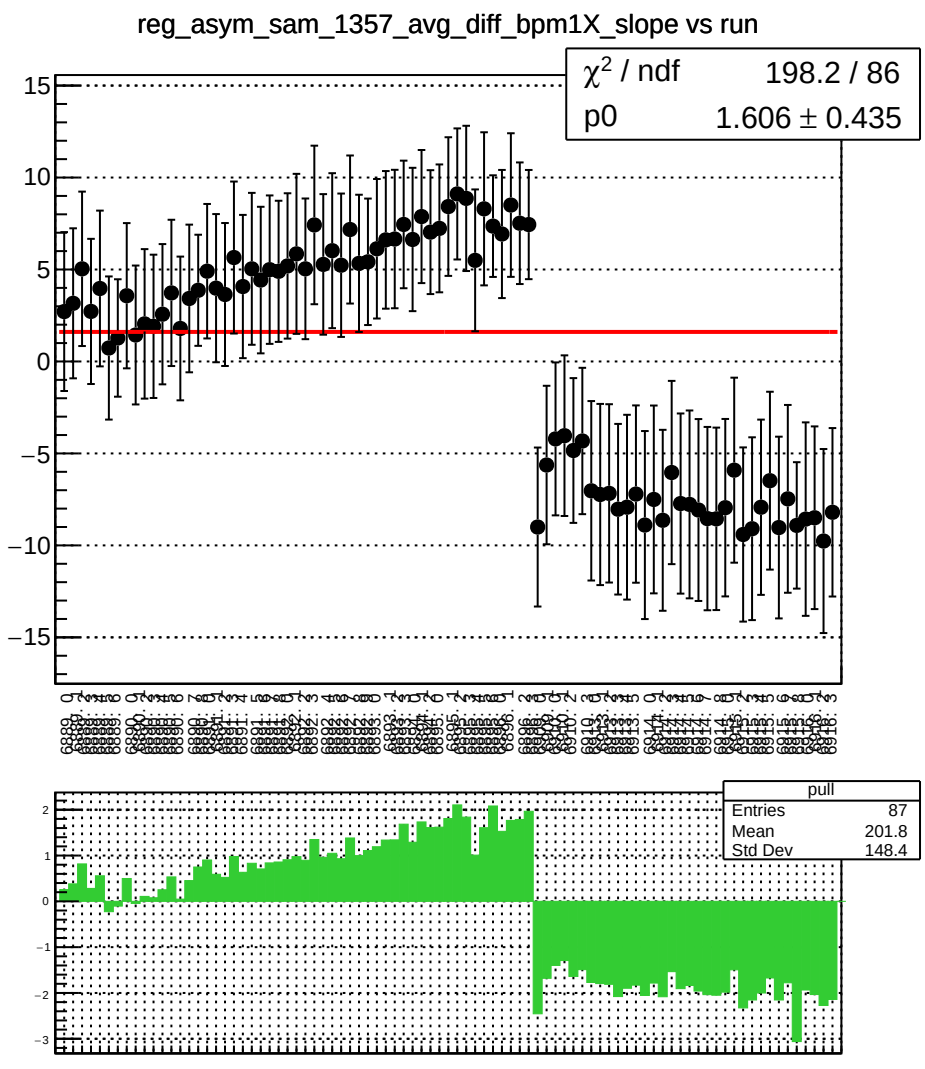

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.32 / 86
p0 −2.005 ± 0.1249
pull
Entries 87
Mean 164.2
Std Dev 94.76
pull1D
Entries 87
Mean 0.03866
Std Dev 0.8108

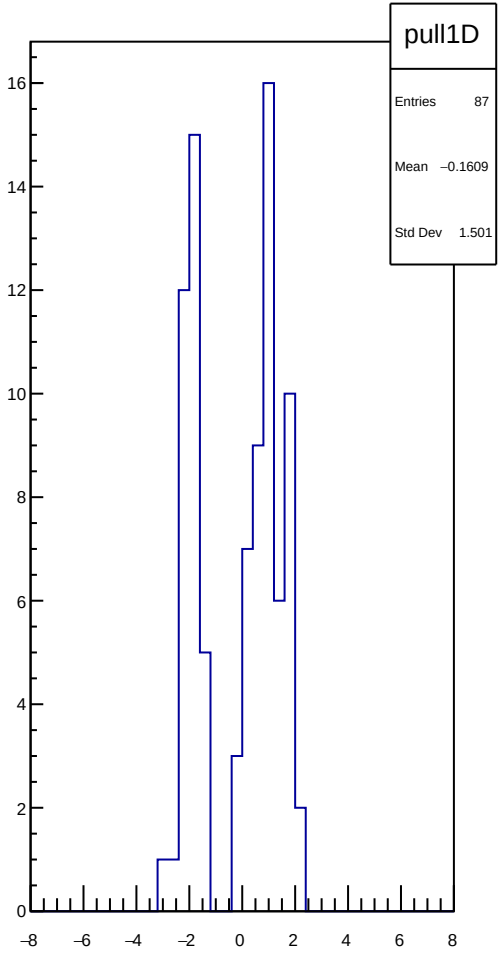

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 122.5 / 86
p0 −7.217 ± 0.1588
pull
Entries 87
Mean 210.3
Std Dev 156.4
pull1D
Entries 87
Mean 0.1129
Std Dev 1.181

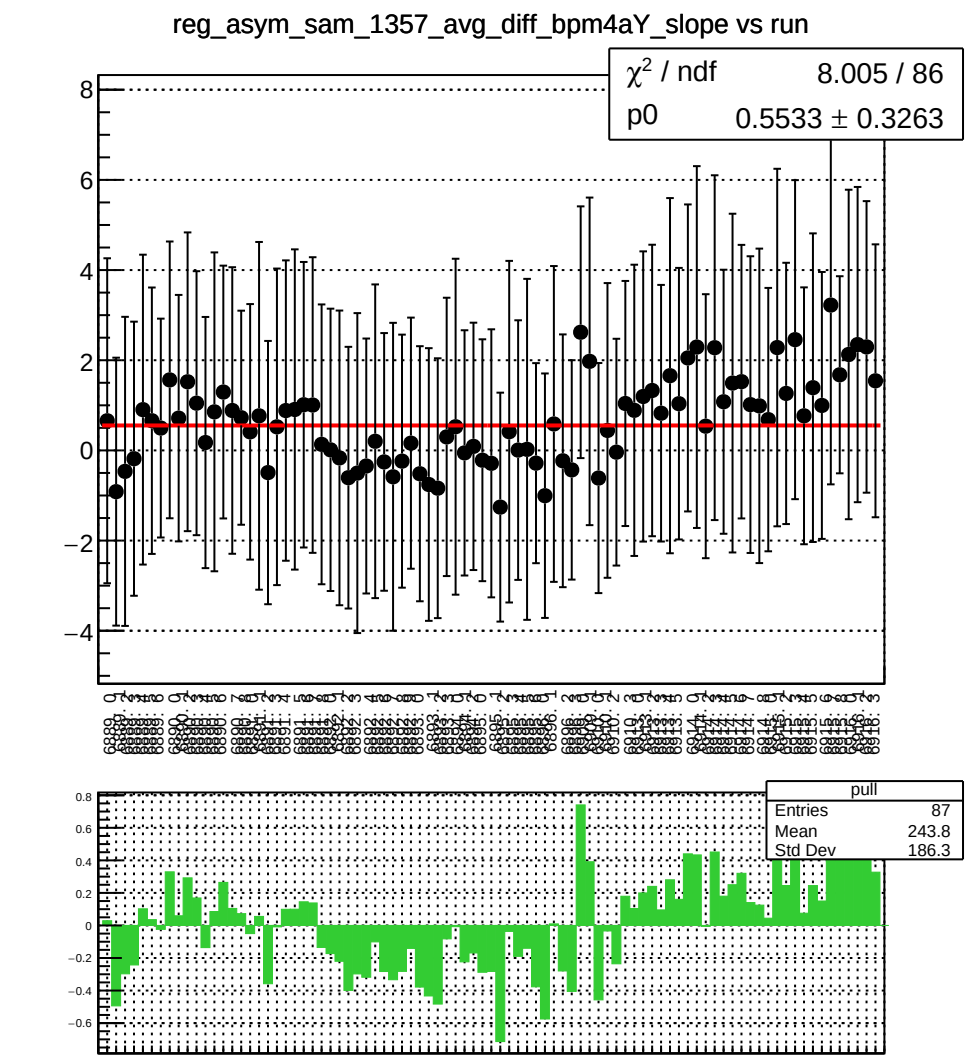

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 101.3 / 86
p0 24.07 ± 0.1474
pull
Entries 87
Mean 337.1
Std Dev 256.8
pull1D
Entries 87
Mean −0.01285
Std Dev 1.079

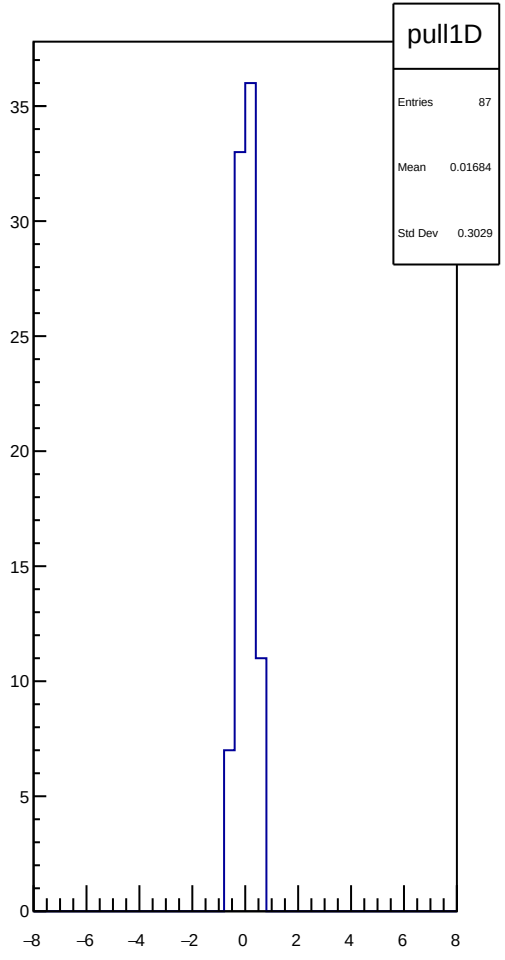

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 33.01 / 86
p0 −0.2568 ± 0.006473
pull
Entries 87
Mean −1447
Std Dev 1474

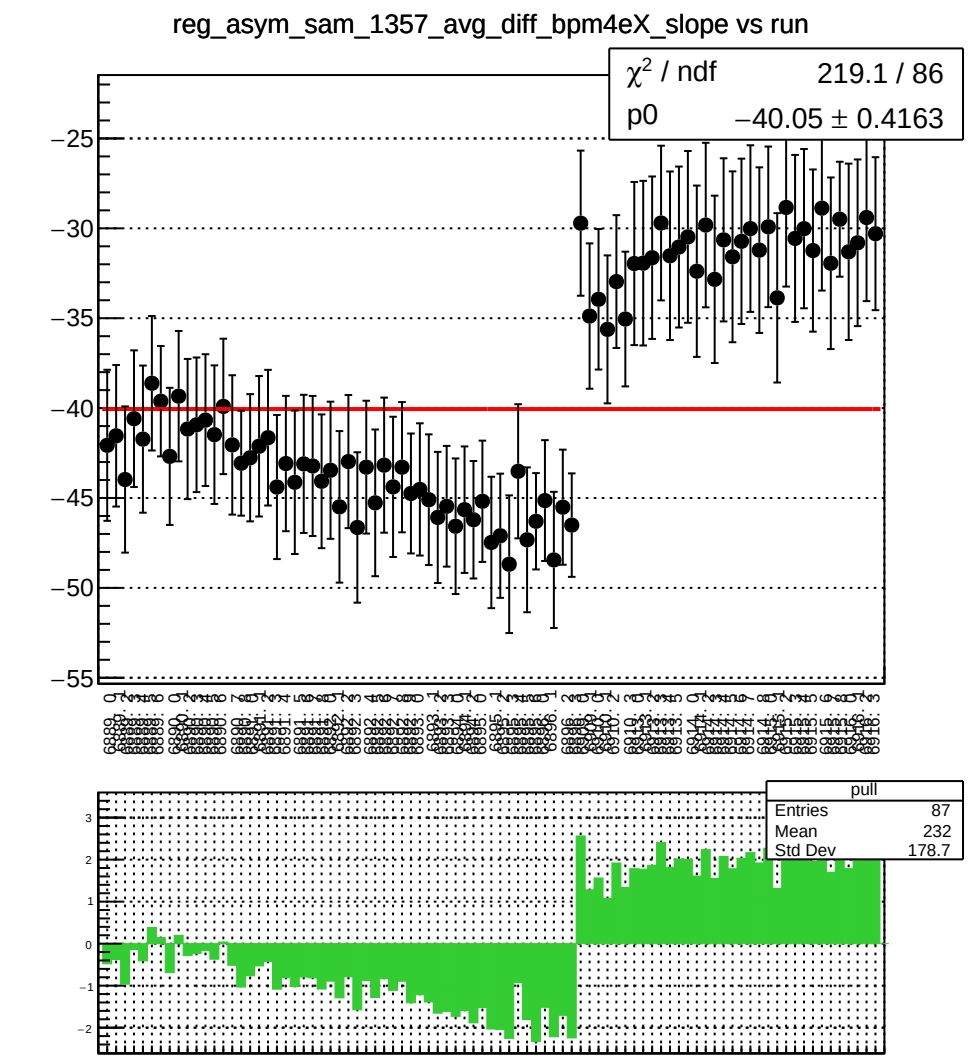

pull1D
Entries 87
Mean −0.003003
Std Dev 0.616

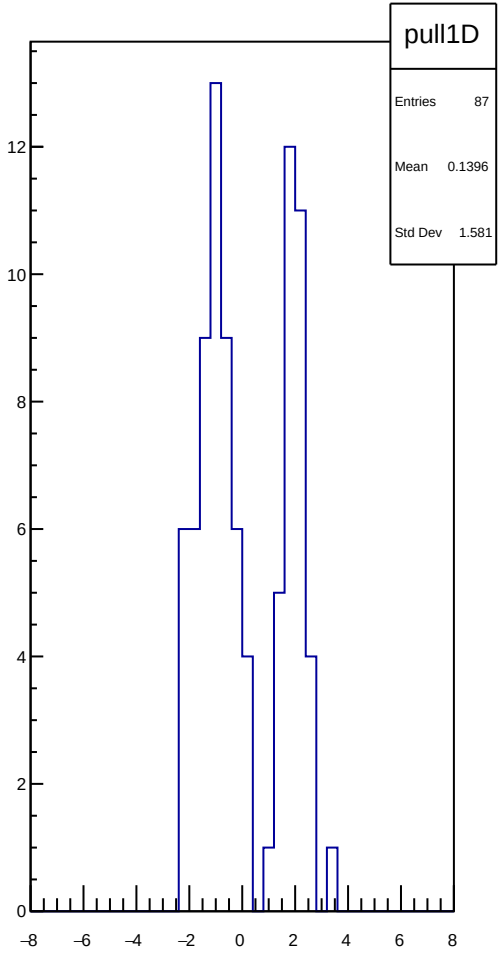

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 198.2 / 86
p0 1.606 ± 0.435
pull
Entries 87
Mean 201.8
Std Dev 148.4

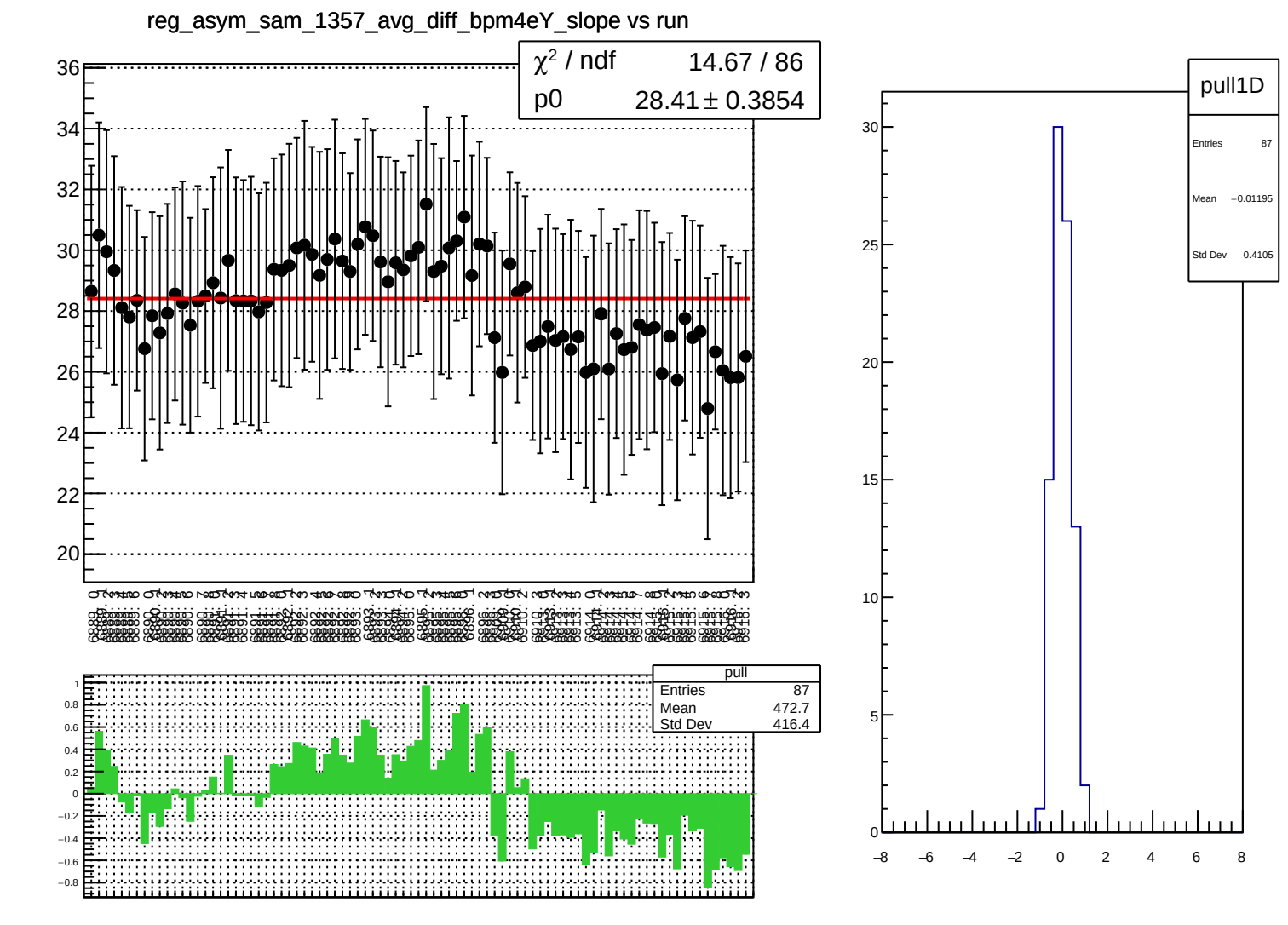

pull1D
Entries 87
Mean −0.1609
Std Dev 1.501

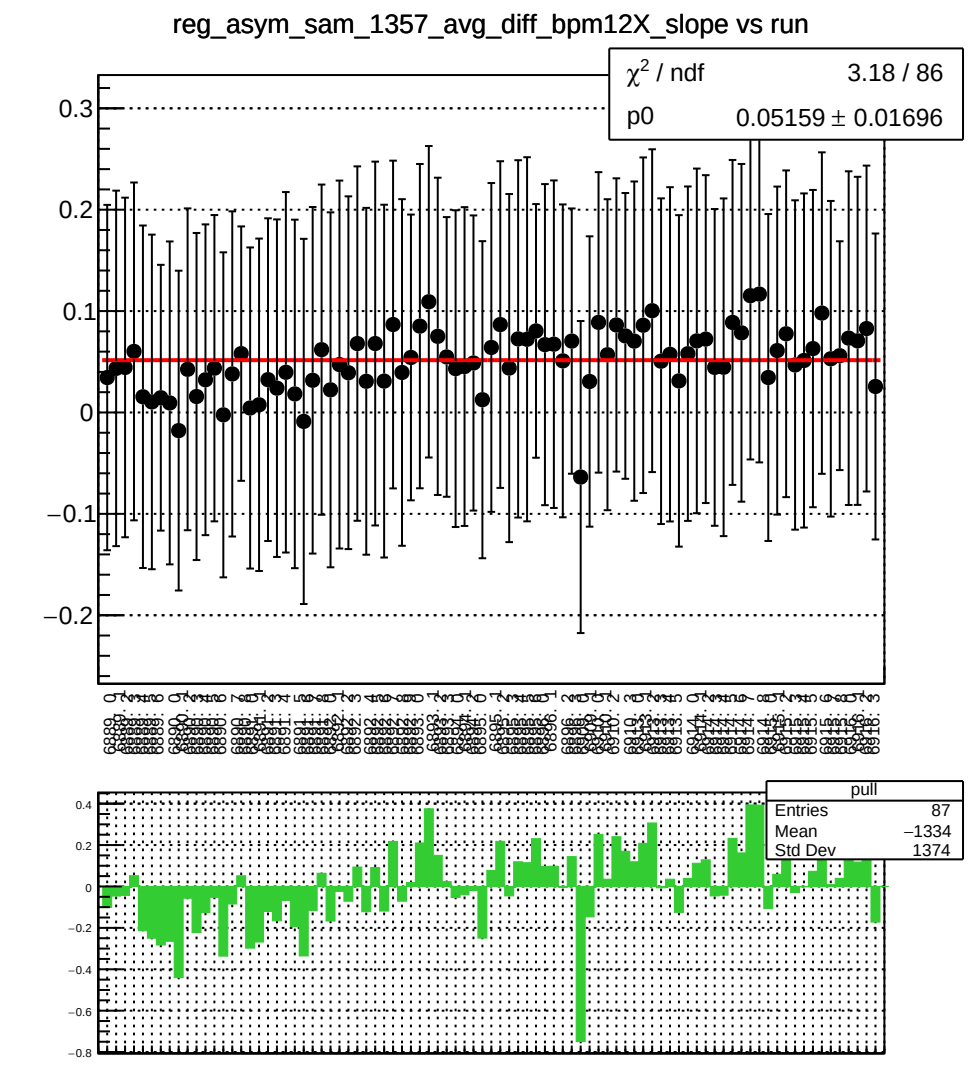

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.005 / 86
p0 0.5533 ± 0.3263
pull
Entries 87
Mean 243.8
Std Dev 186.3

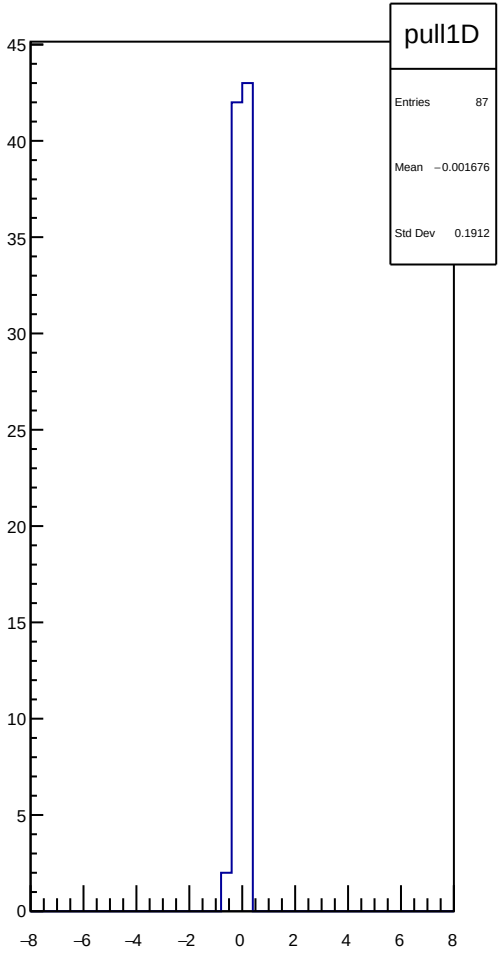

pull1D
Entries 87
Mean 0.01684
Std Dev 0.3029

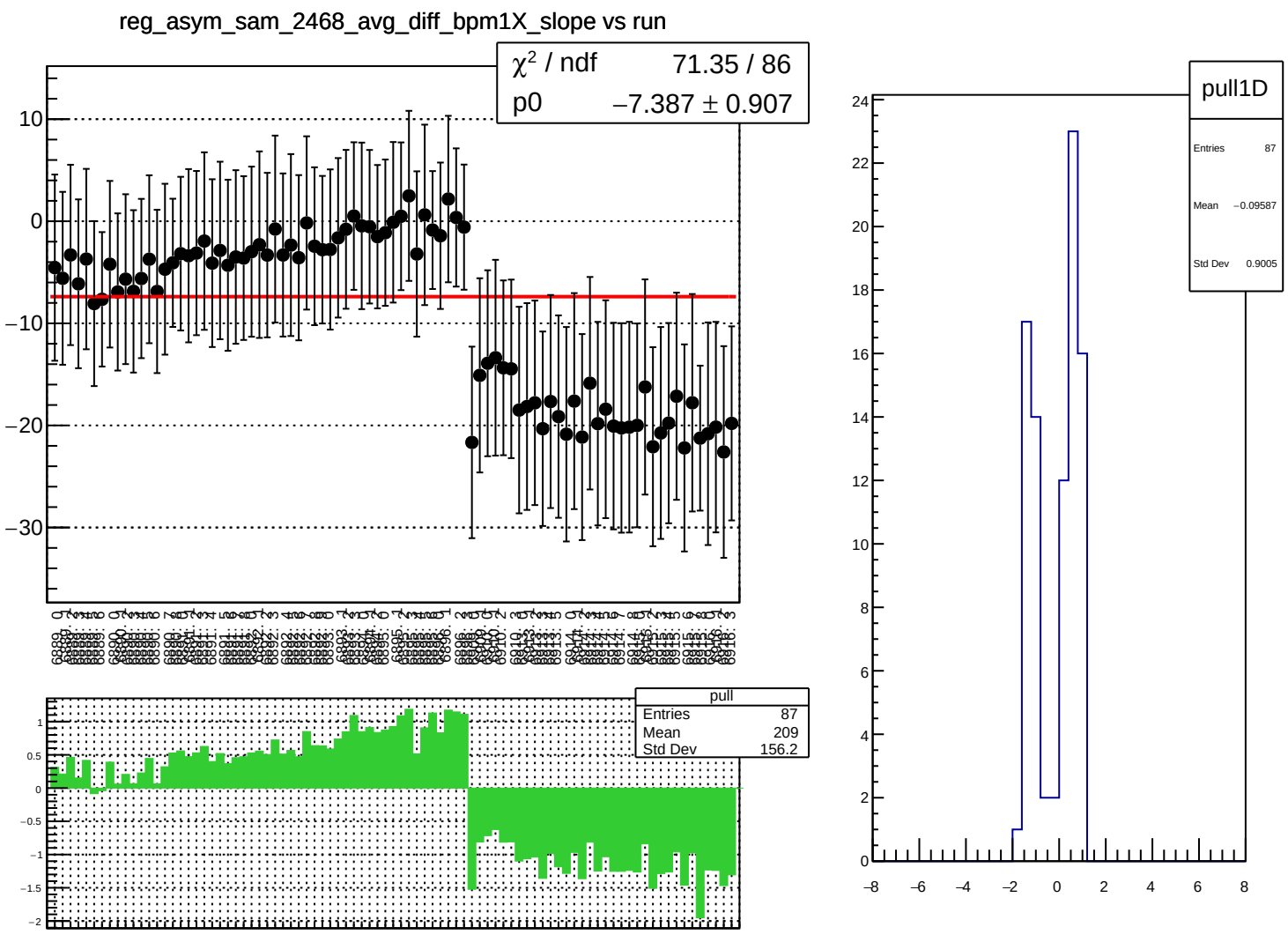

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 219.1 / 86
p0 −40.05 ± 0.4163
pull
Entries 87
Mean 232
Std Dev 178.7

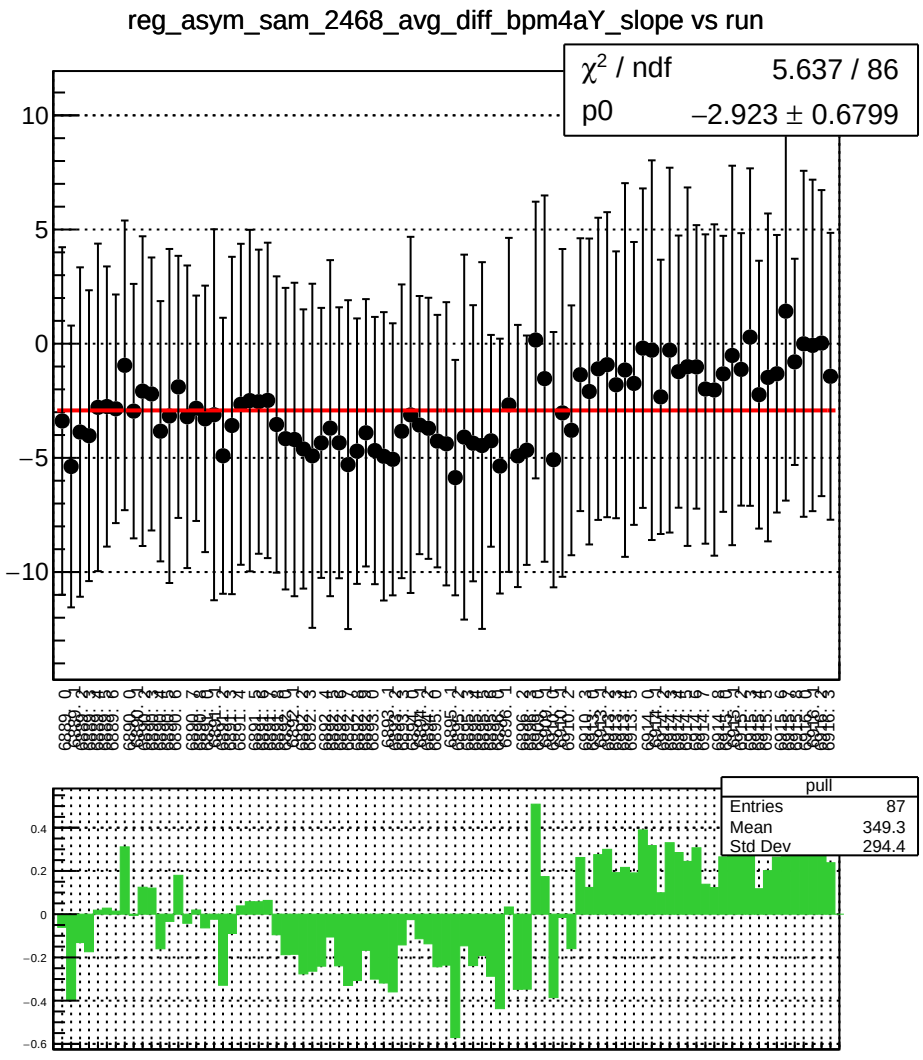

pull1D
Entries 87
Mean 0.1396
Std Dev 1.581

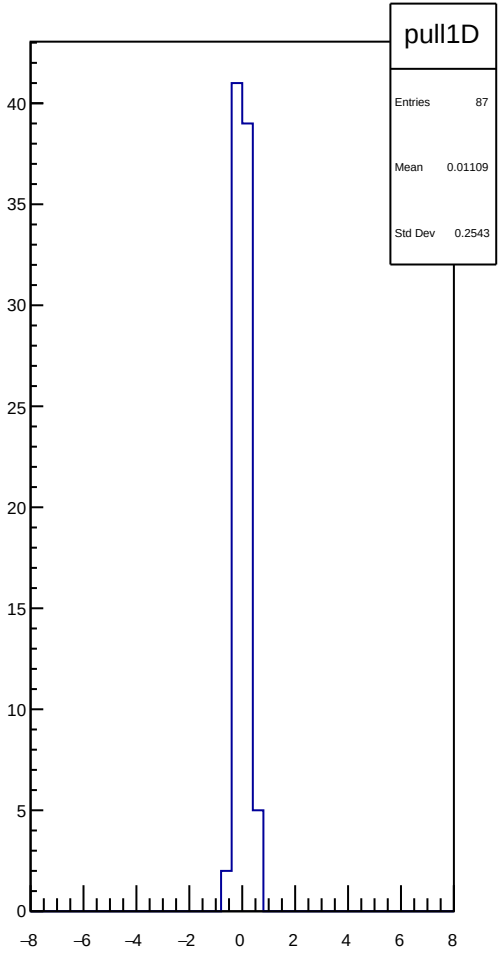

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.67 / 86
p0 28.41 ± 0.3854
pull
Entries 87
Mean 472.7
Std Dev 416.4
pull1D
Entries 87
Mean −0.01195
Std Dev 0.4105

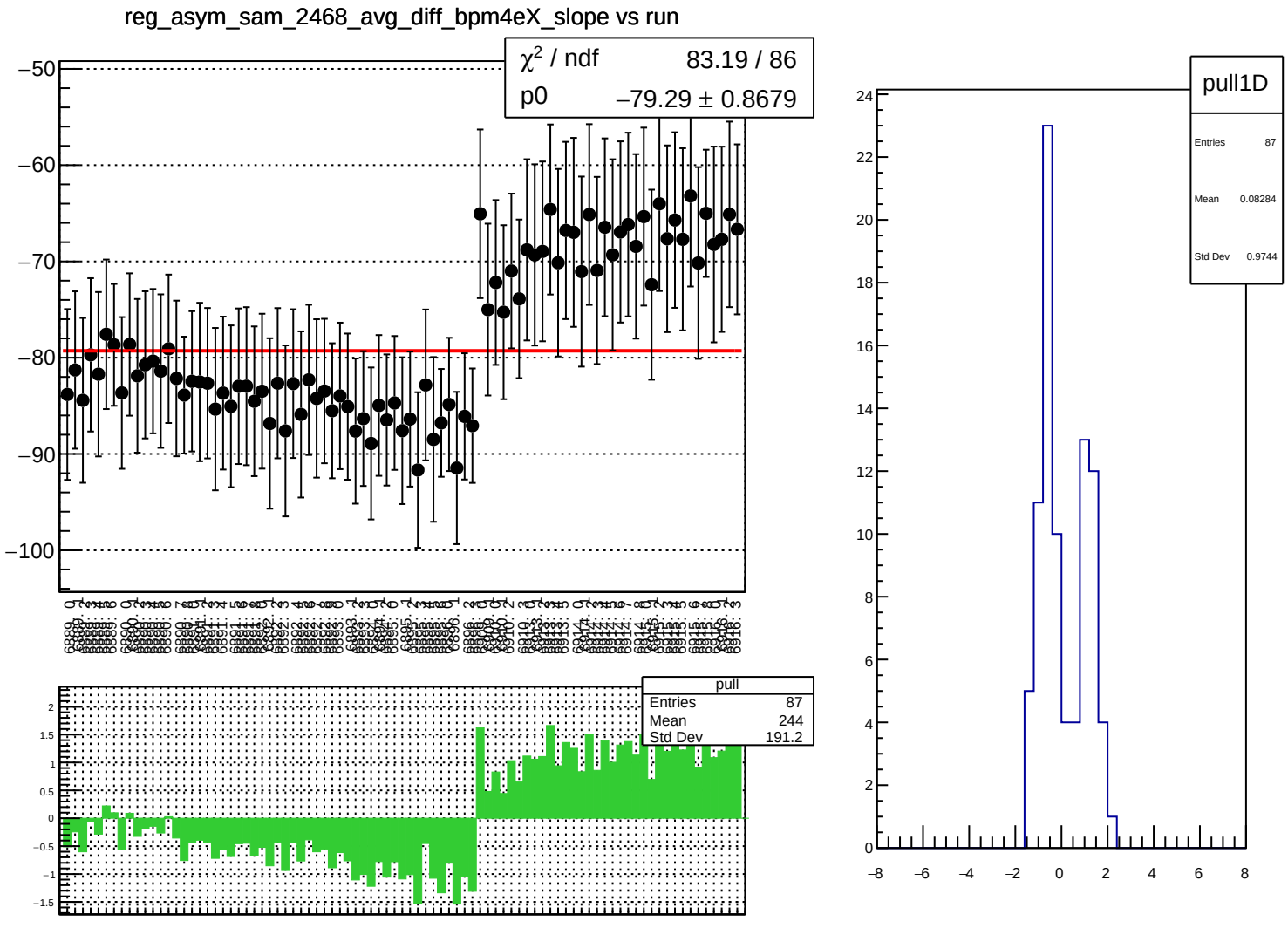

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 3.18 / 86
p0 0.05159 ± 0.01696
pull
Entries 87
Mean −1334
Std Dev 1374

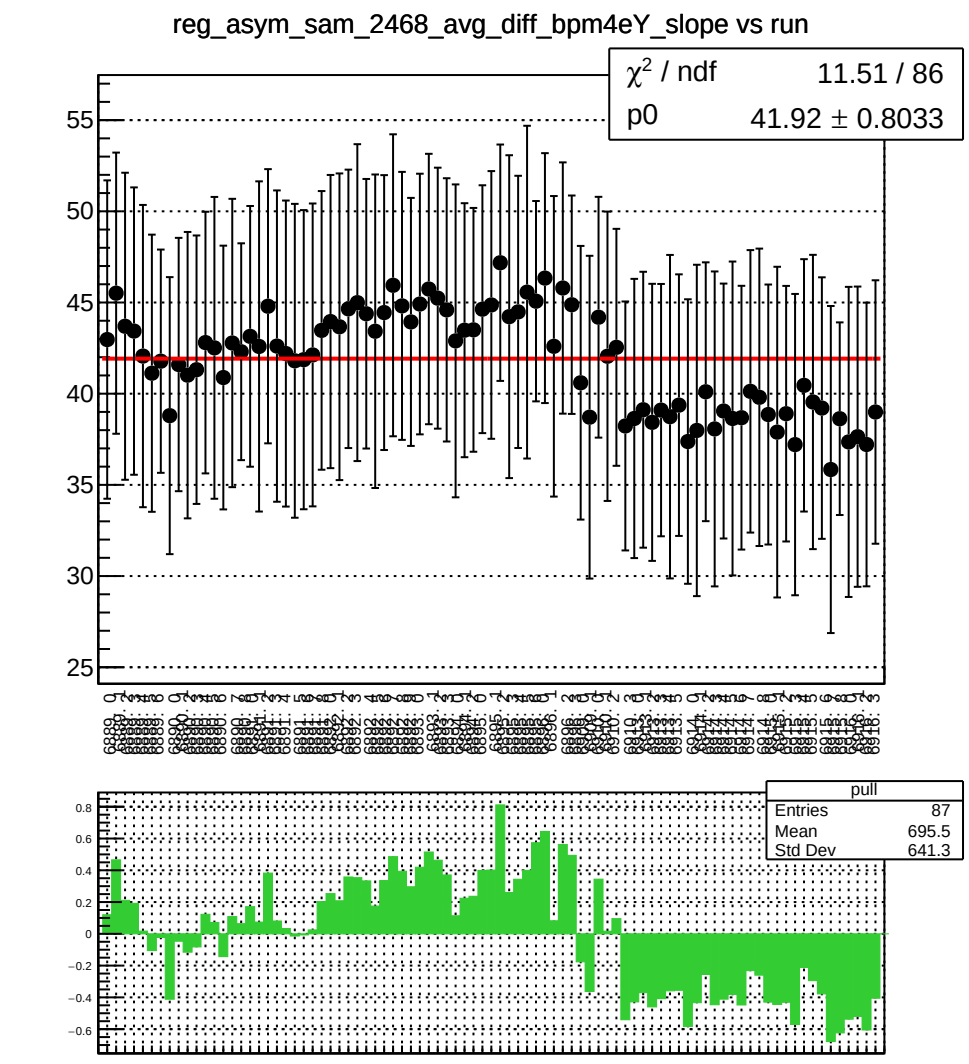

pull1D
Entries 87
Mean −0.001676
Std Dev 0.1912

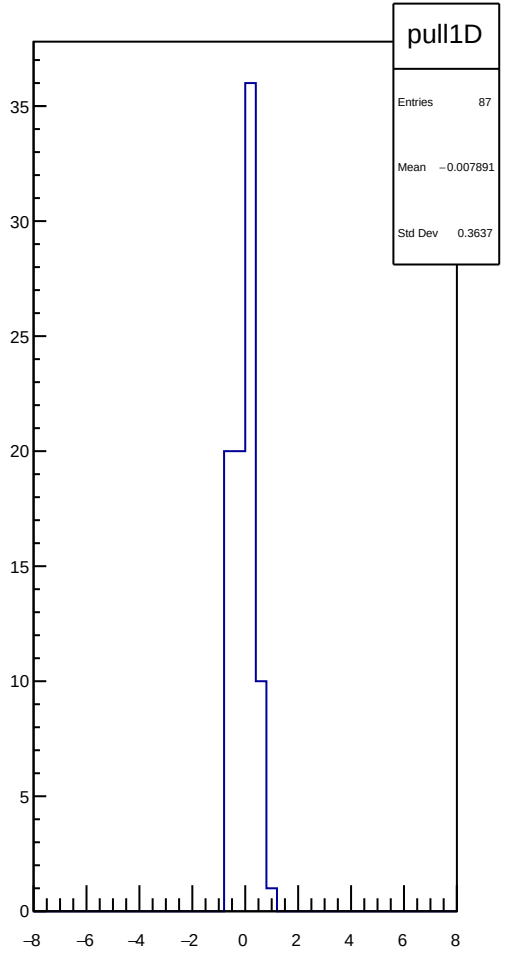

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 71.35 / 86
p0 −7.387 ± 0.907
pull
Entries 87
Mean 209
Std Dev 156.2
pull1D
Entries 87
Mean −0.09587
Std Dev 0.9005

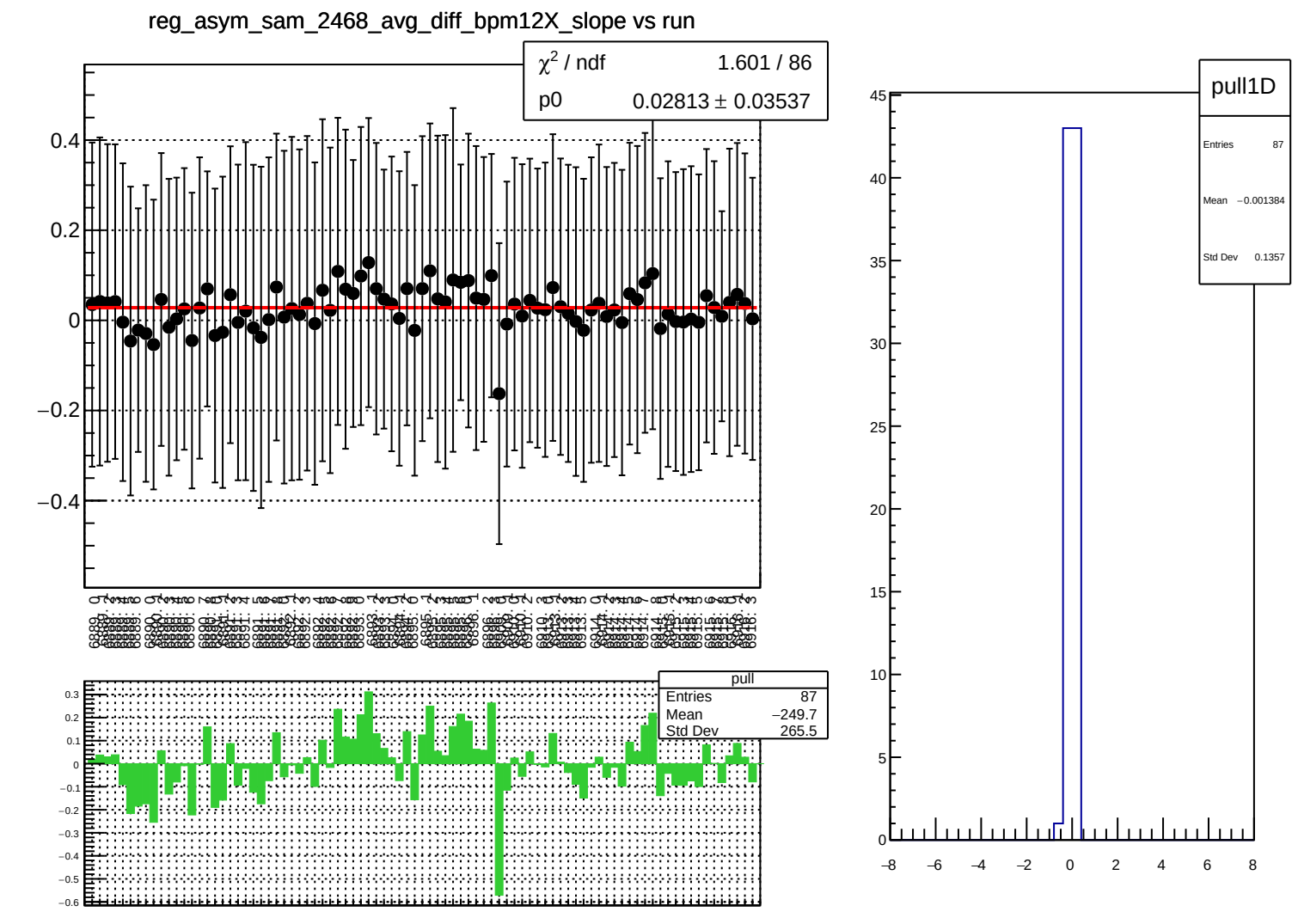

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.637 / 86
p0 −2.923 ± 0.6799
pull
Entries 87
Mean 349.3
Std Dev 294.4

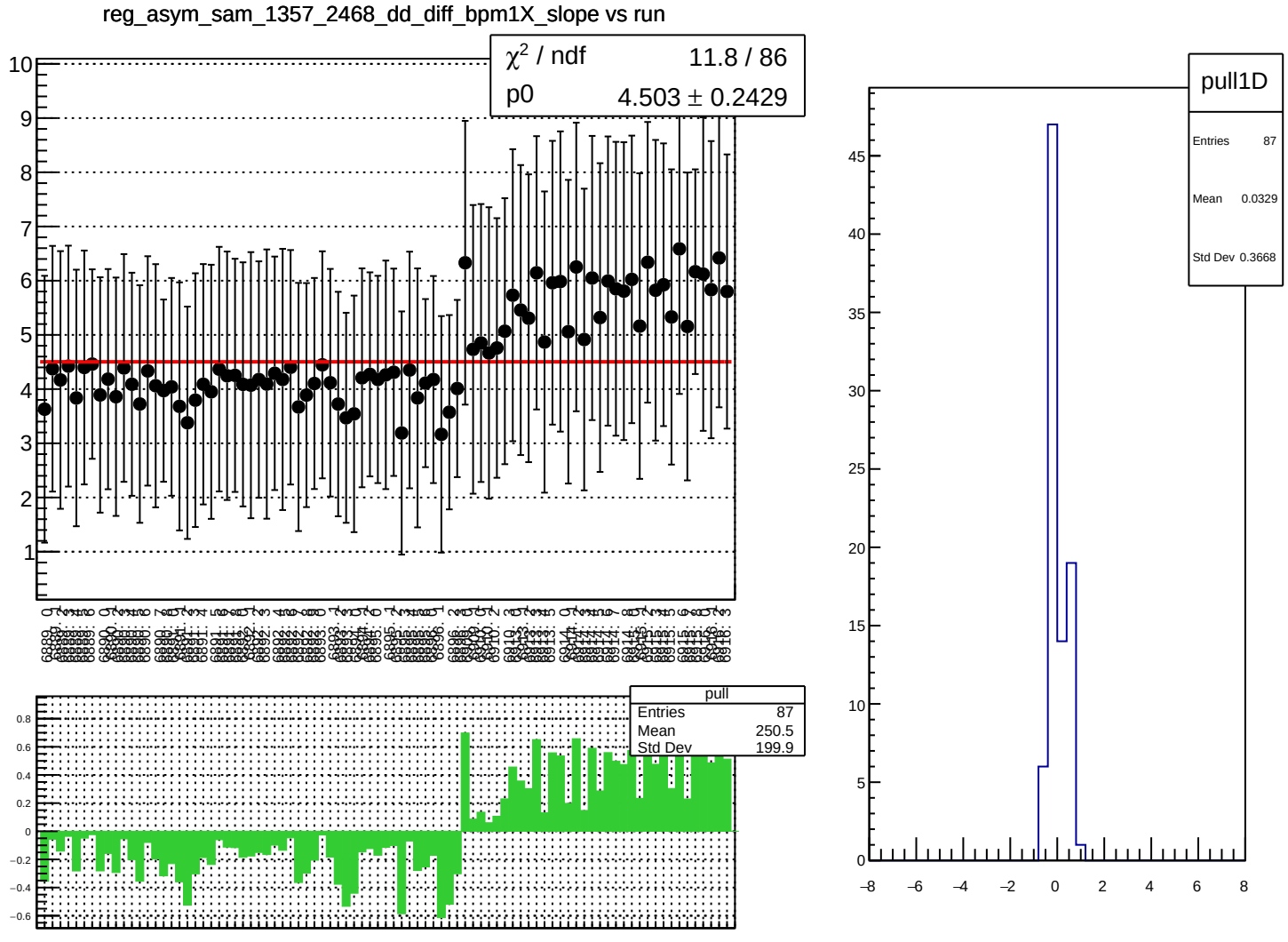

pull1D
Entries 87
Mean 0.01109
Std Dev 0.2543

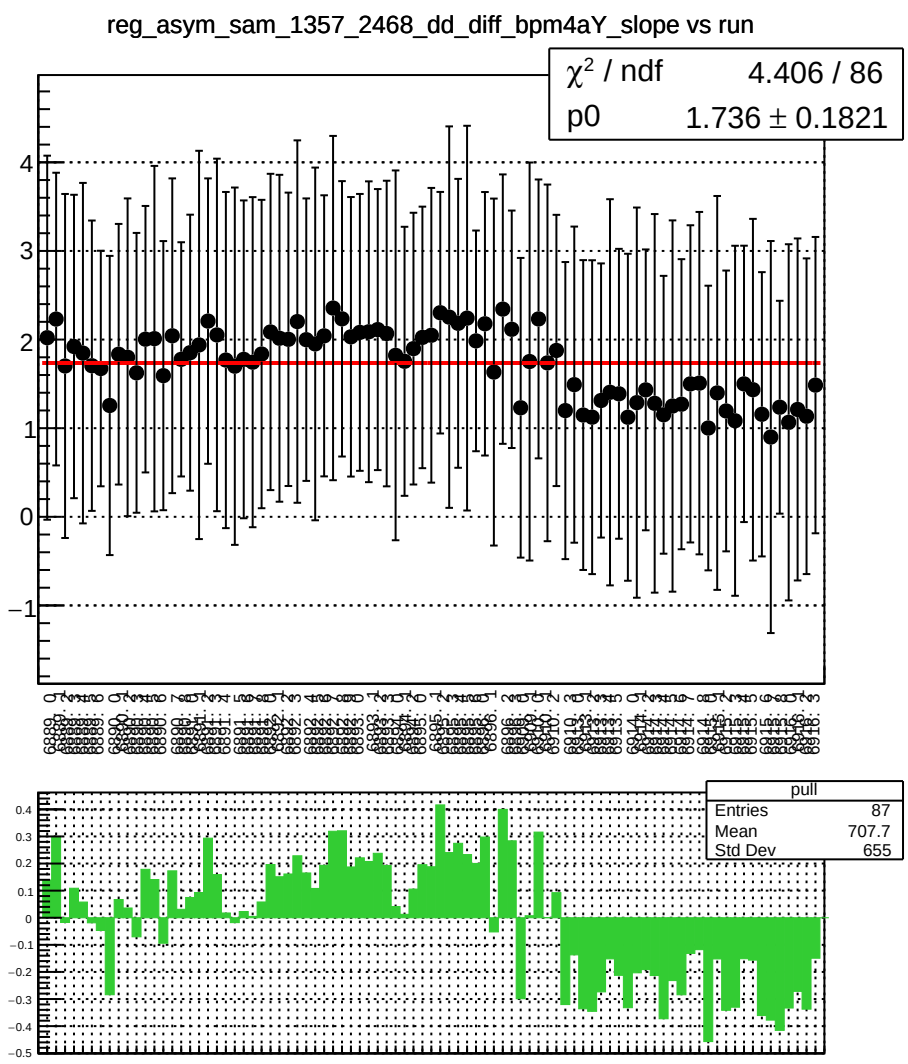

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 83.19 / 86
p0 −79.29 ± 0.8679
pull
Entries 87
Mean 244
Std Dev 191.2
pull1D
Entries 87
Mean 0.08284
Std Dev 0.9744

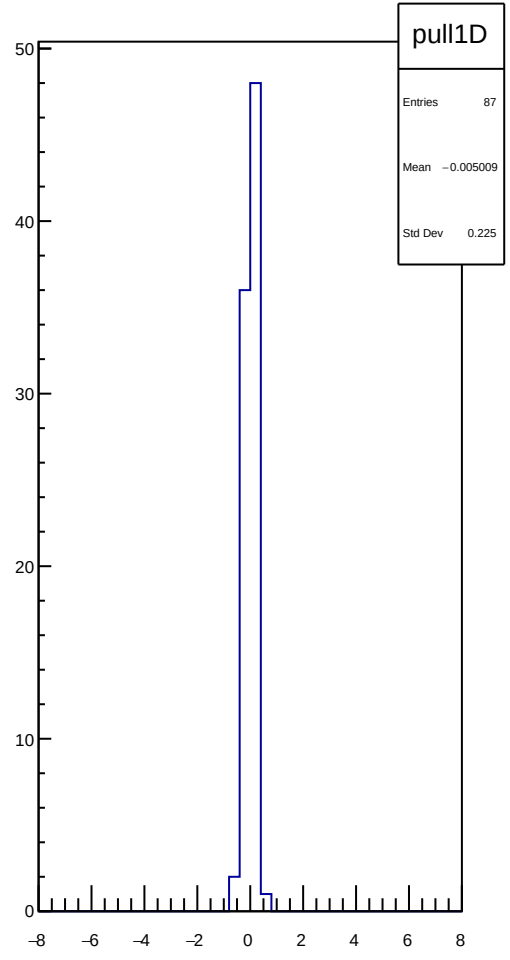

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.51 / 86
p0 41.92 ± 0.8033
pull
Entries 87
Mean 695.5
Std Dev 641.3

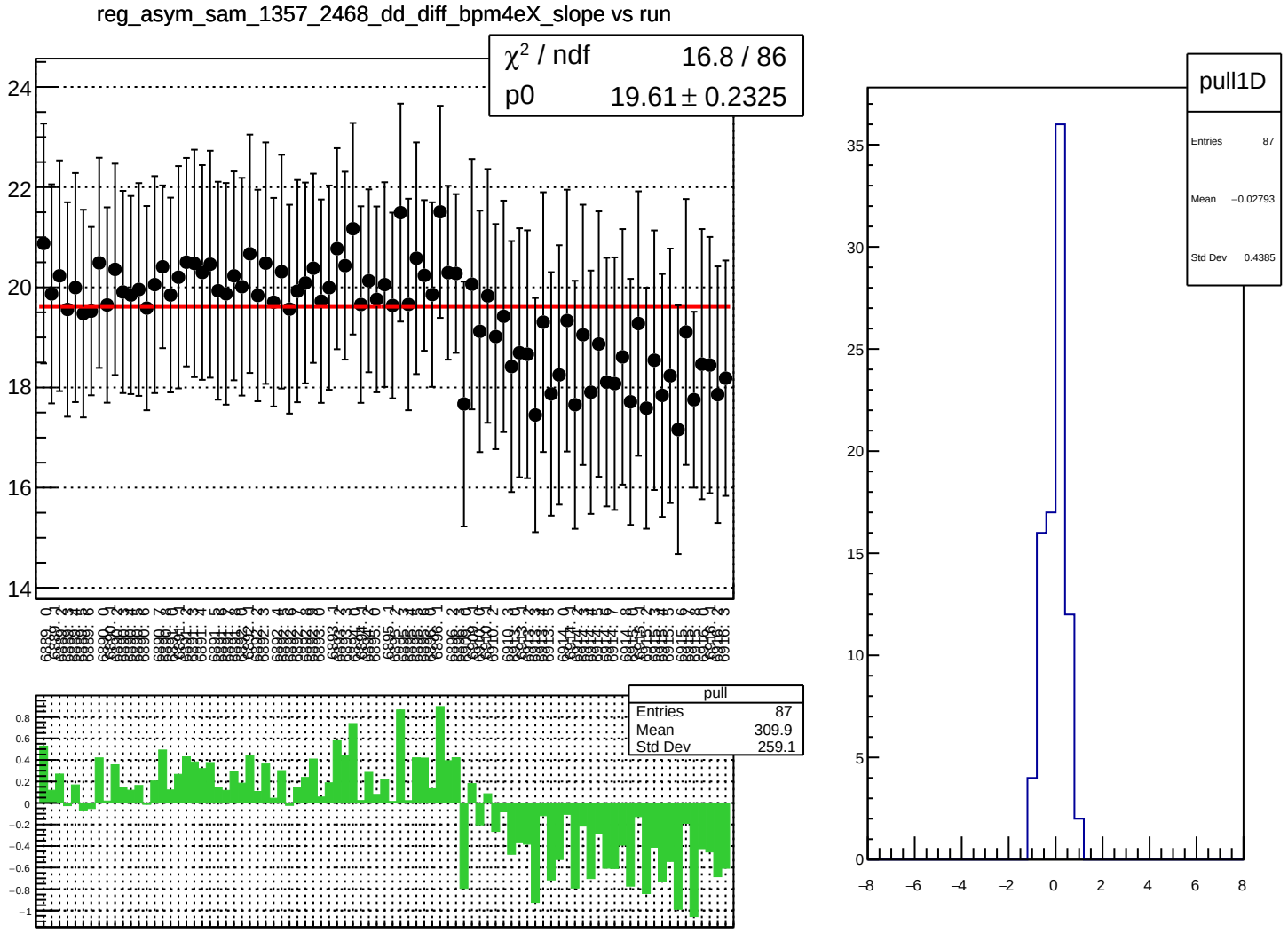

pull1D
Entries 87
Mean −0.007891
Std Dev 0.3637

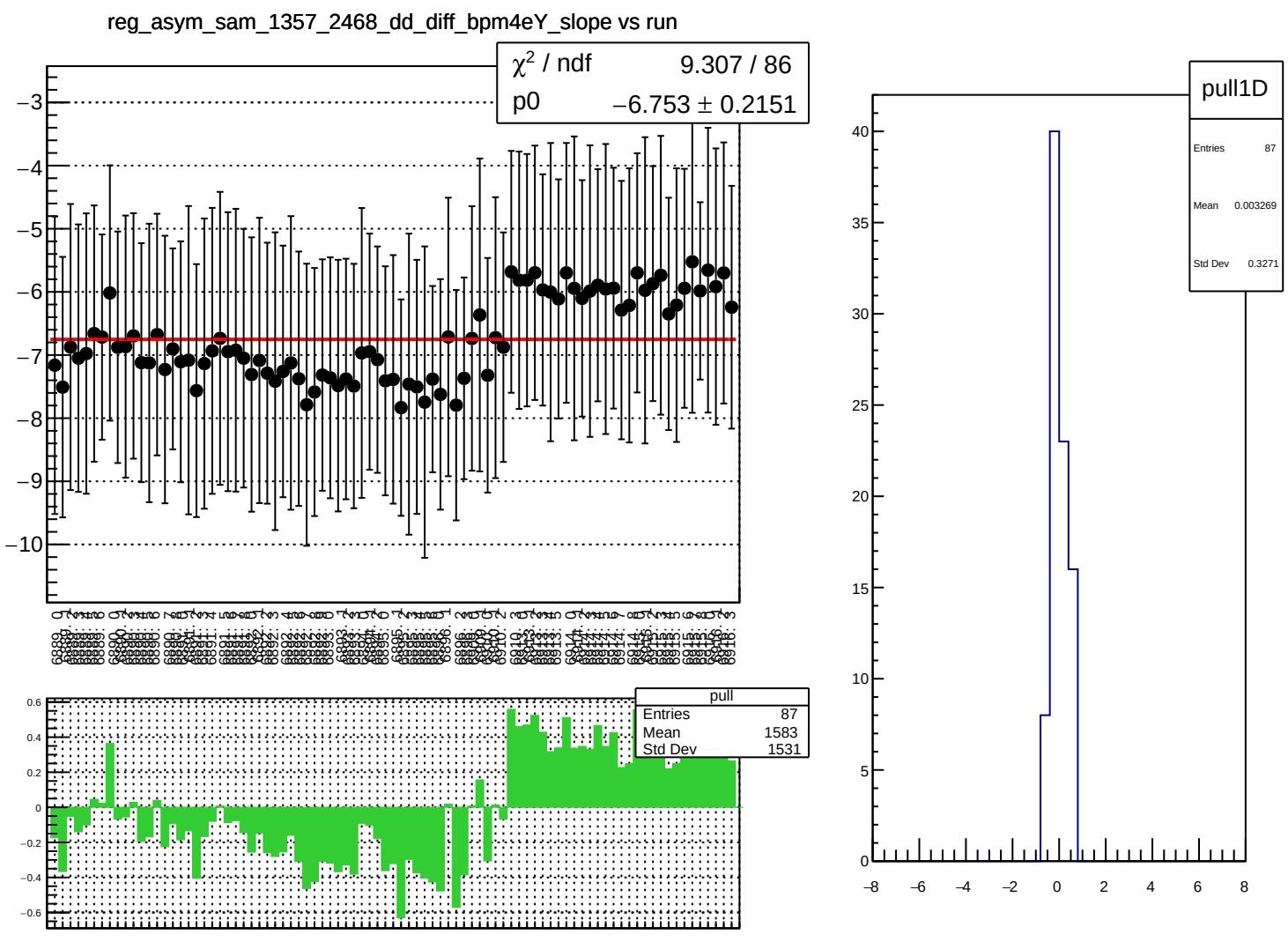

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1.601 / 86
p0 0.02813 ± 0.03537
pull
Entries 87
Mean −249.7
Std Dev 265.5
pull1D
Entries 87
Mean −0.001384
Std Dev 0.1357

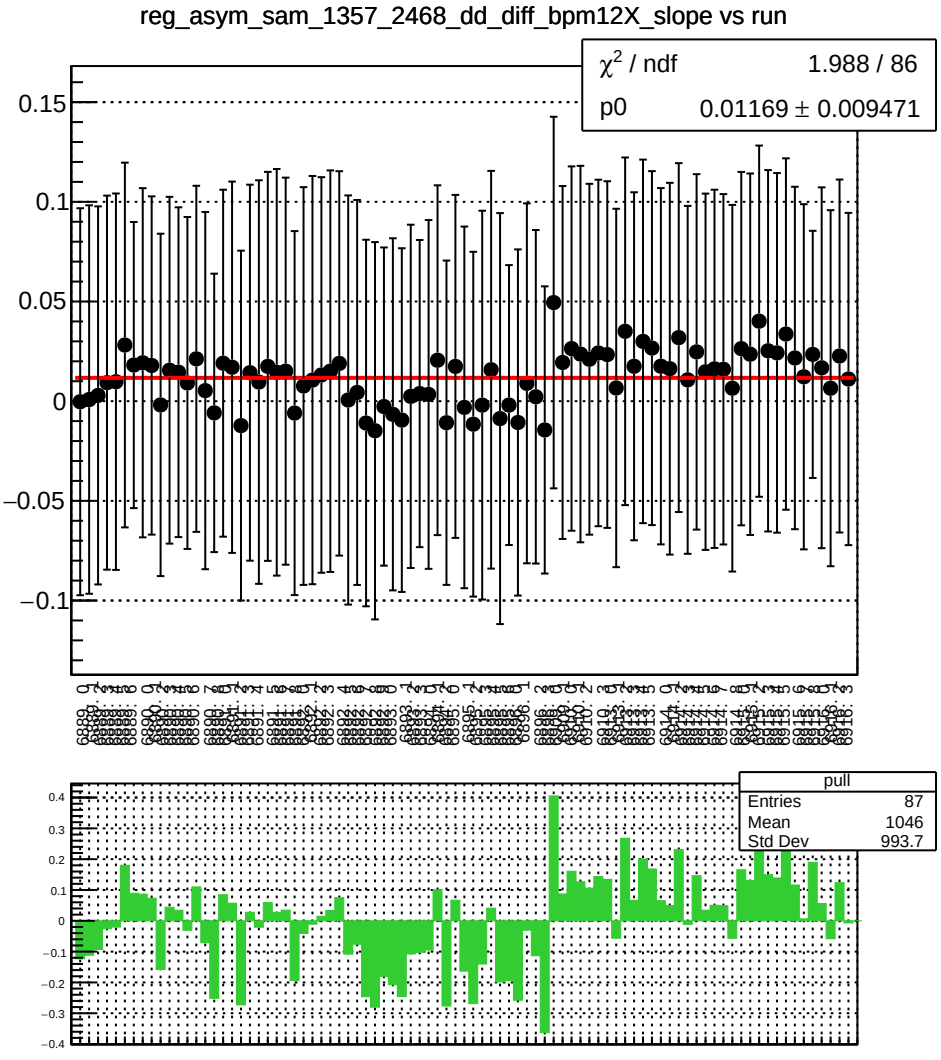

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 11.8 / 86
p0 4.503 ± 0.2429
pull
Entries 87
Mean 250.5
Std Dev 199.9
pull1D
Entries 87
Mean 0.0329
Std Dev 0.3668

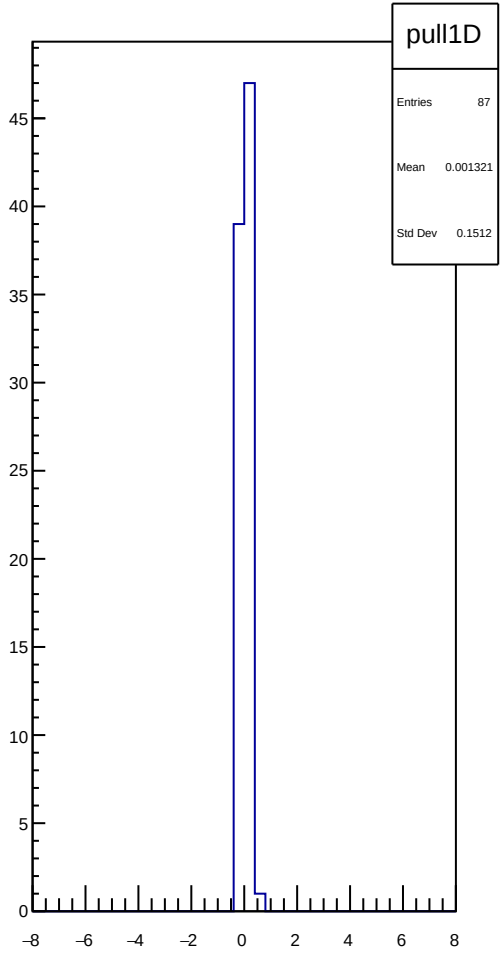

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.406 / 86
p0 1.736 ± 0.1821
pull
Entries 87
Mean 707.7
Std Dev 655

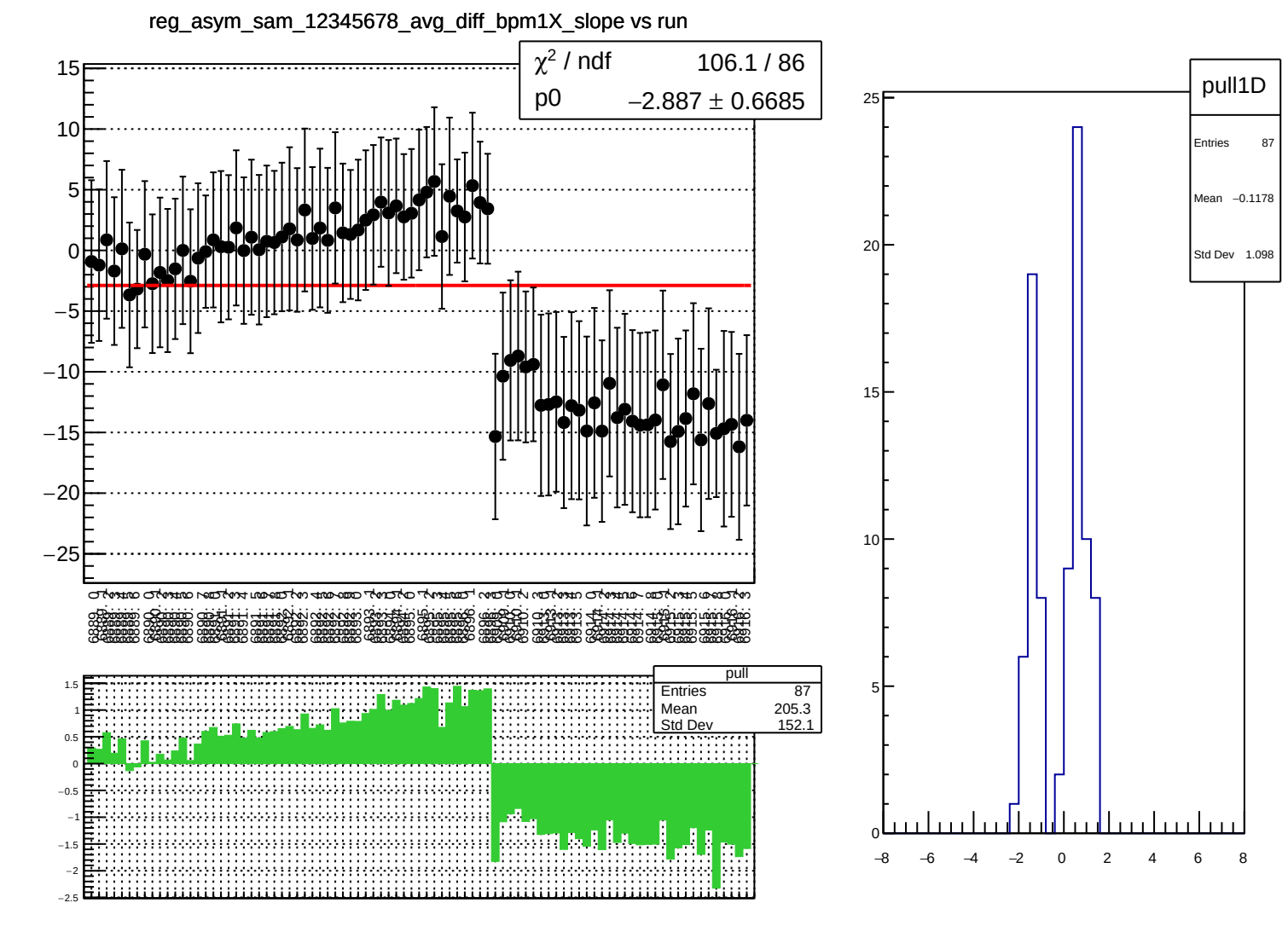

pull1D
Entries 87
Mean −0.005009
Std Dev 0.225

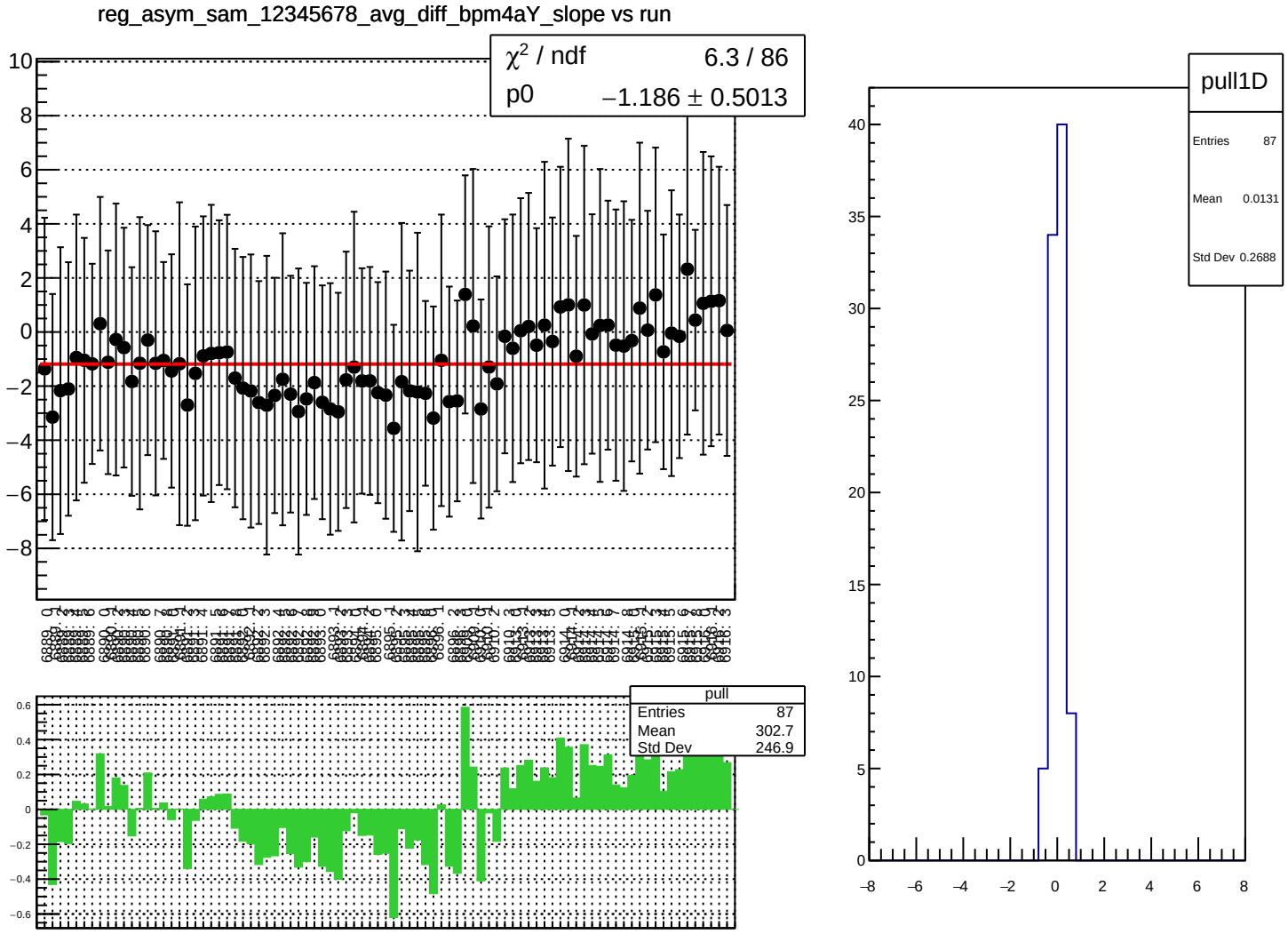

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.8 / 86
p0 19.61 ± 0.2325
pull
Entries 87
Mean 309.9
Std Dev 259.1
pull1D
Entries 87
Mean −0.02793
Std Dev 0.4385

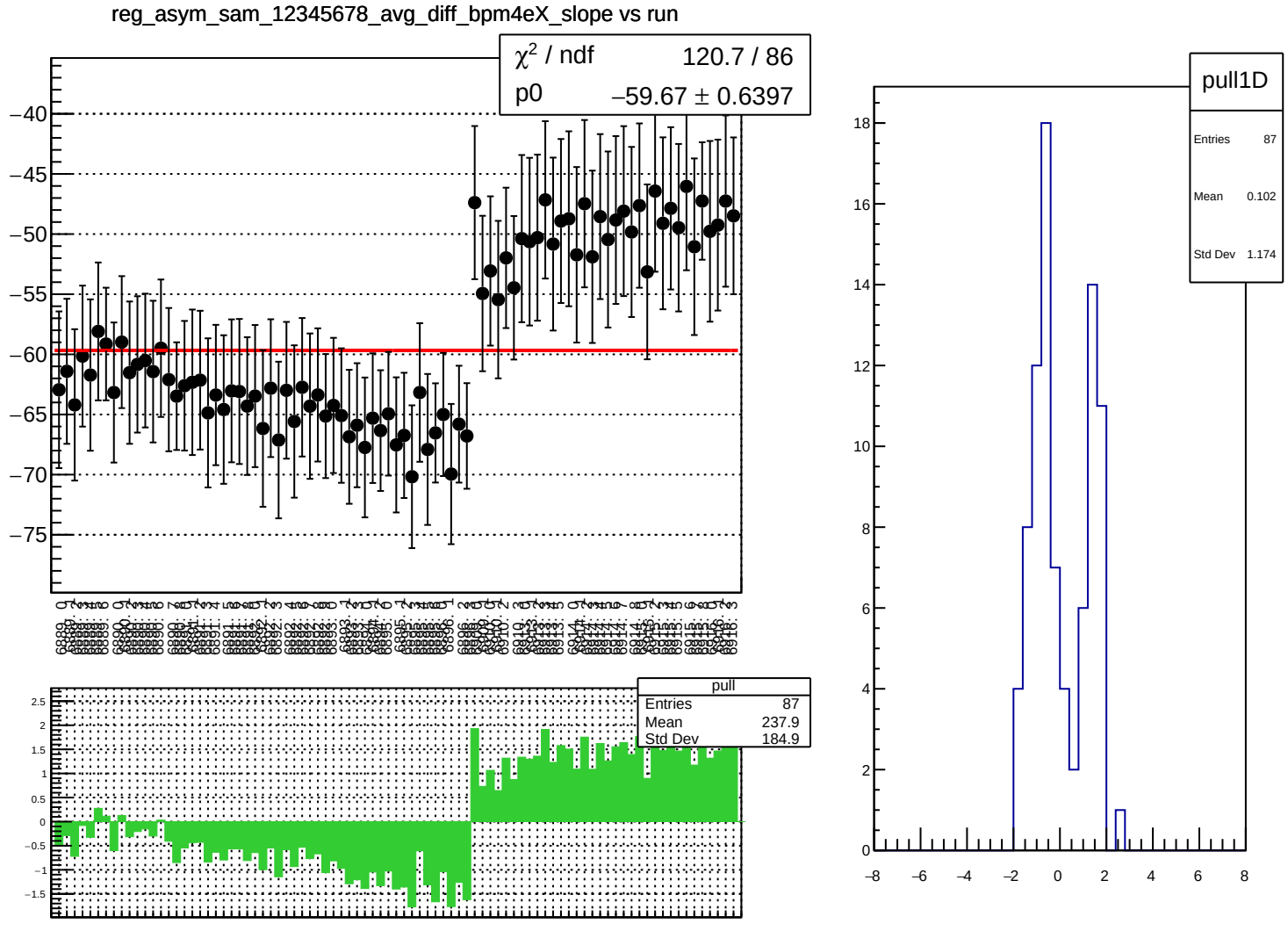

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.307 / 86
p0 −6.753 ± 0.2151
pull
Entries 87
Mean 1583
Std Dev 1531
pull1D
Entries 87
Mean 0.003269
Std Dev 0.3271

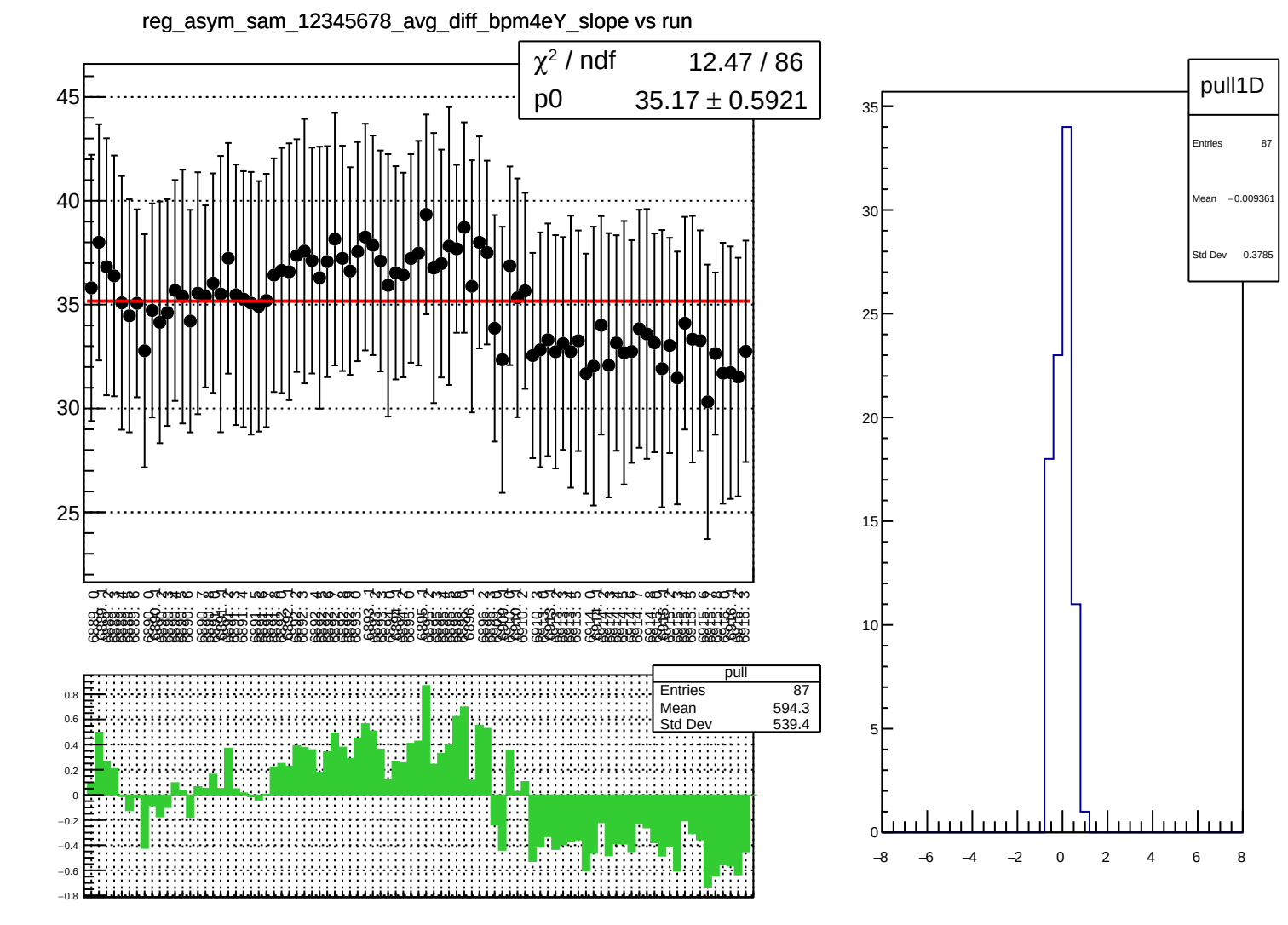

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 1.988 / 86
p0 0.01169 ± 0.009471
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 87
Mean 1046
Std Dev 993.7
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

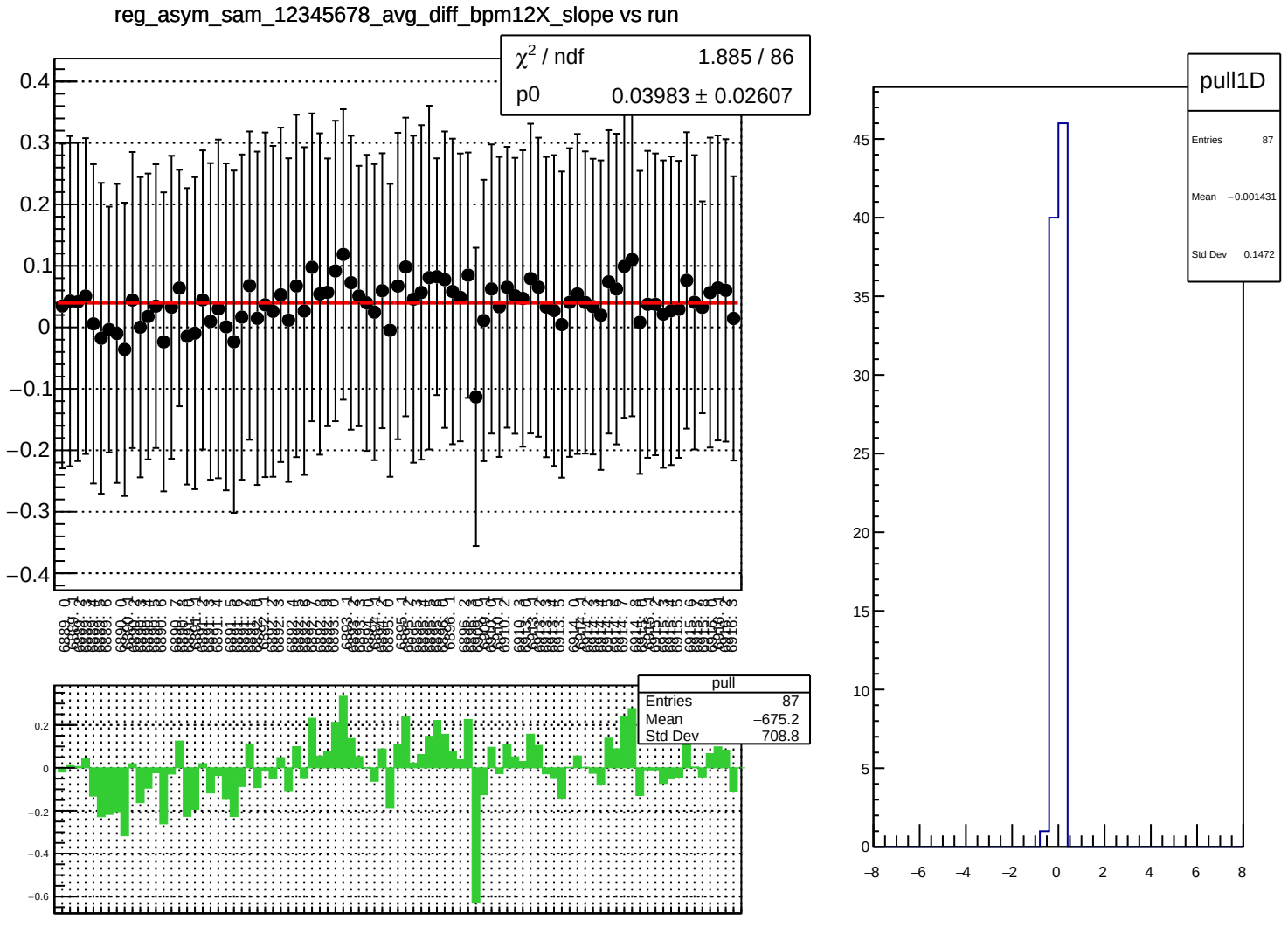

pull1D
Entries 87
Mean 0.001321
Std Dev 0.1512
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

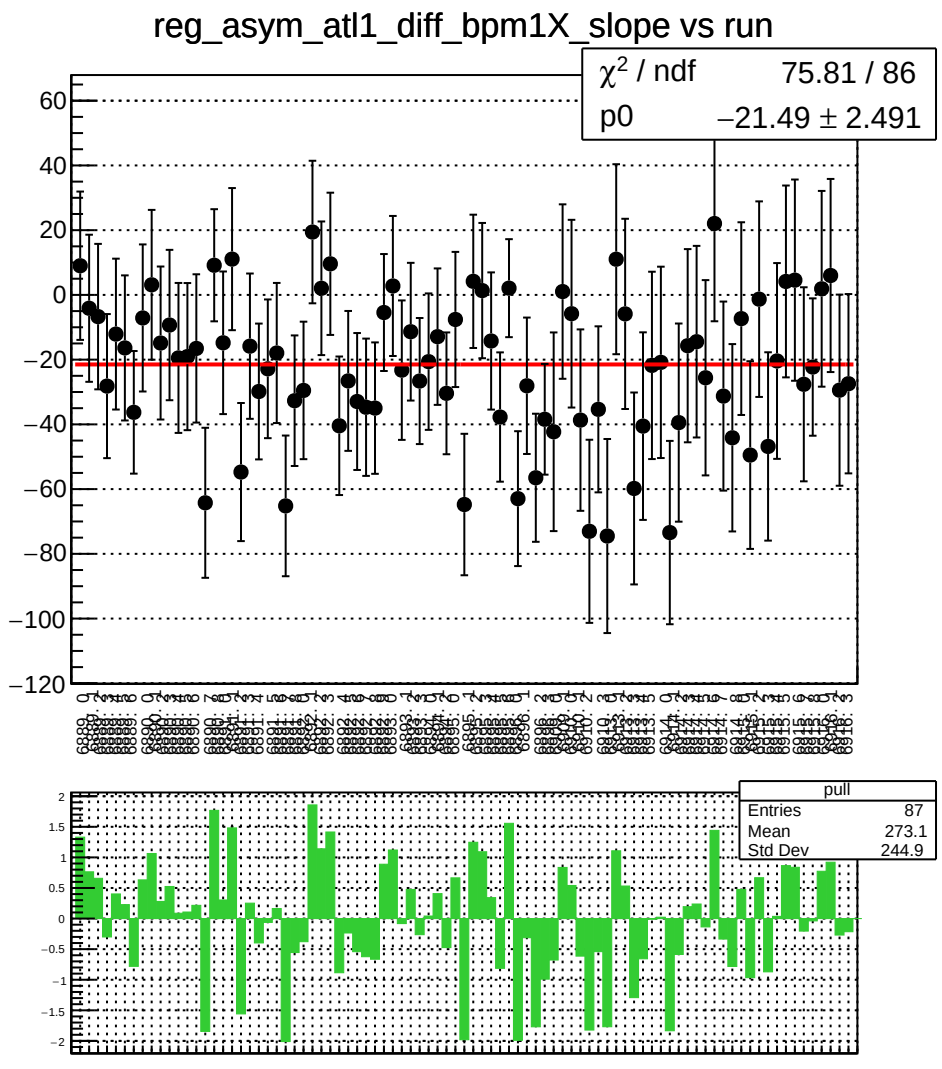

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 106.1 / 86
p0 −2.887 ± 0.6685
pull
Entries 87
Mean 205.3
Std Dev 152.1
pull1D
Entries 87
Mean −0.1178
Std Dev 1.098

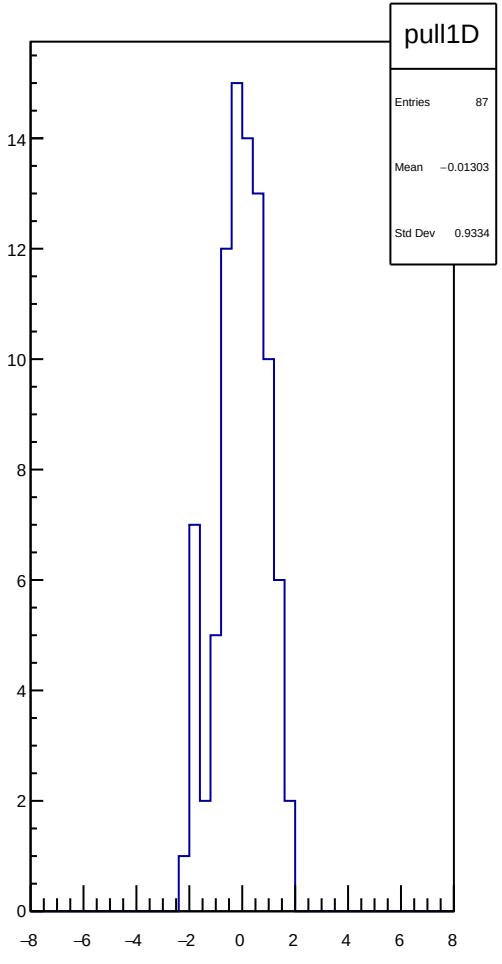

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.3 / 86
p0 −1.186 ± 0.5013
pull
Entries 87
Mean 302.7
Std Dev 246.9
pull1D
Entries 87
Mean 0.0131
Std Dev 0.2688

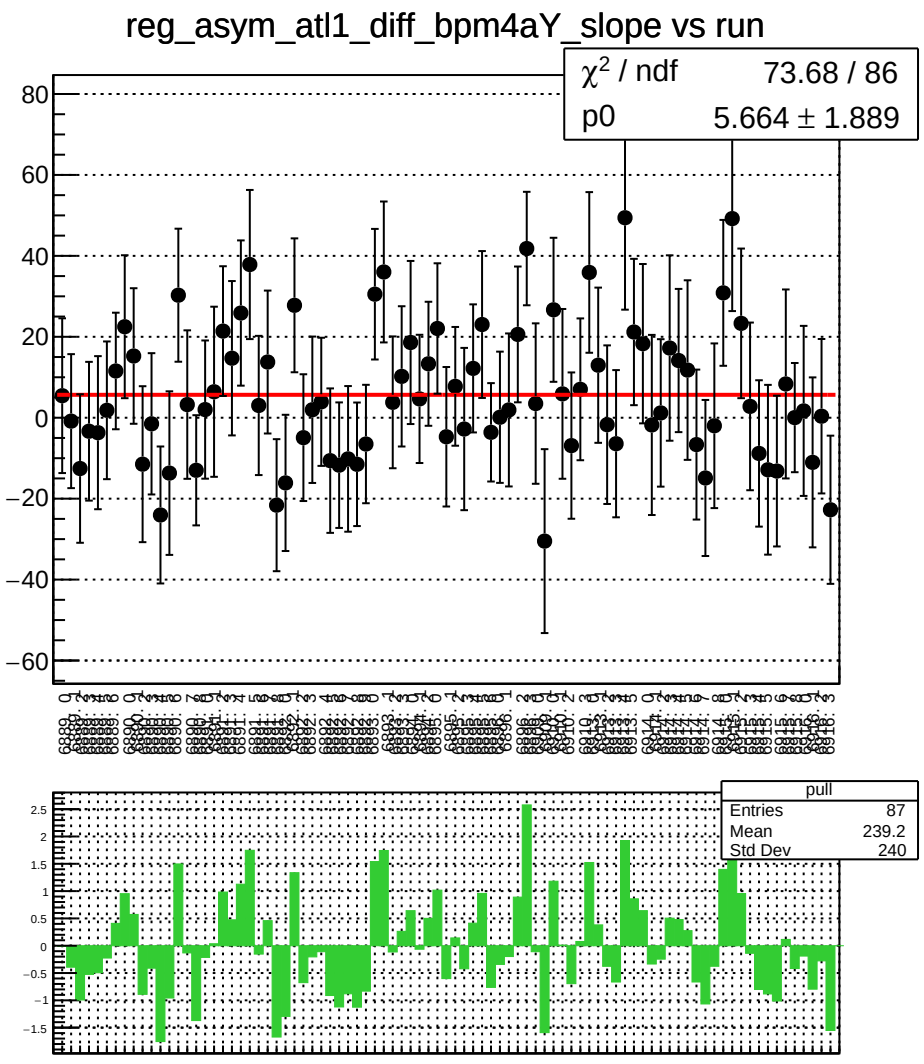

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 120.7 / 86
p0 −59.67 ± 0.6397
−40
−45
−50
−55
−60
−65
−70
−75
pull
Entries 87
Mean 237.9
Std Dev 184.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean 0.102
Std Dev 1.174
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

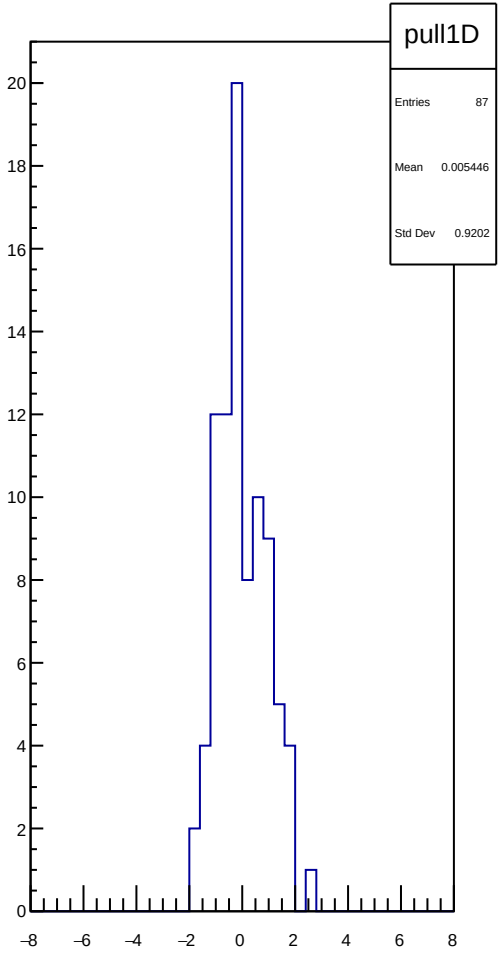

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.47 / 86
p0 35.17 ± 0.5921
pull
Entries 87
Mean 594.3
Std Dev 539.4
pull1D
Entries 87
Mean −0.009361
Std Dev 0.3785

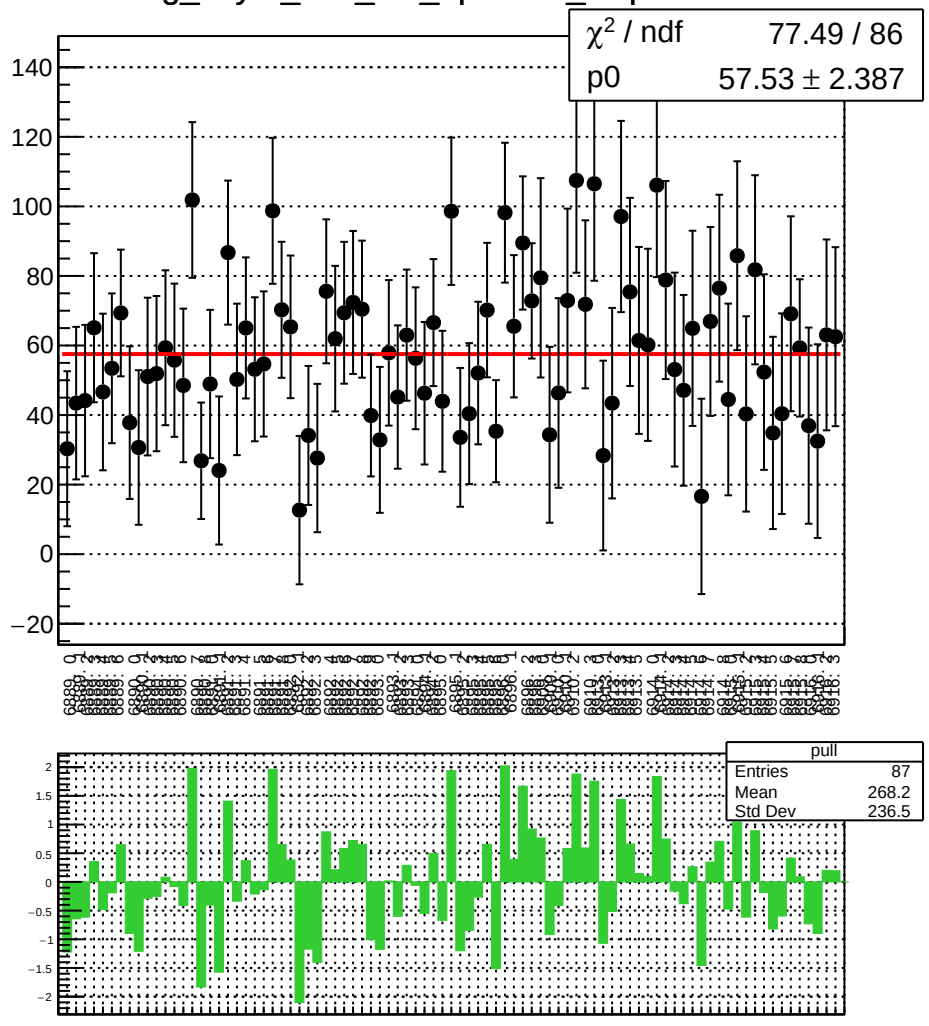

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 1.885 / 86
p0 0.03983 ± 0.02607
pull
Entries 87
Mean −675.2
Std Dev 708.8
pull1D
Entries 87
Mean −0.001431
Std Dev 0.1472

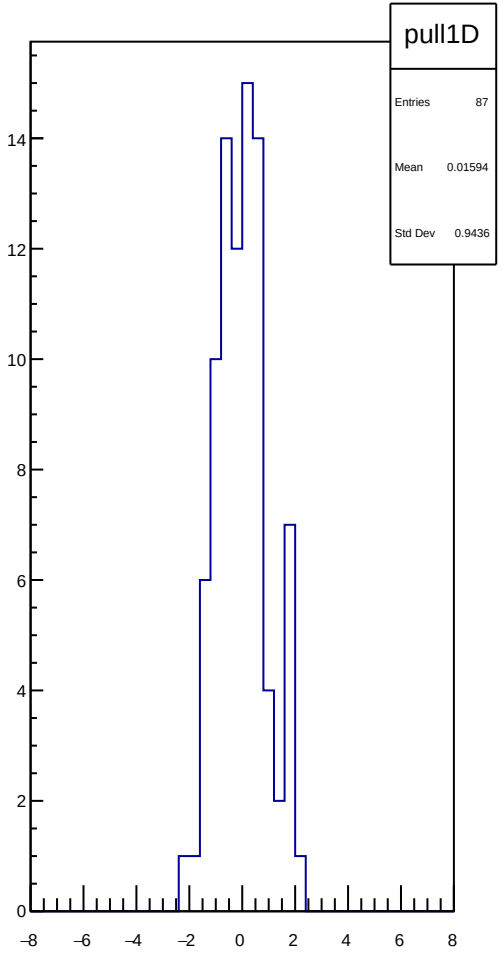

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 75.81 / 86
p0 −21.49 ± 2.491
pull
Entries 87
Mean 273.1
Std Dev 244.9

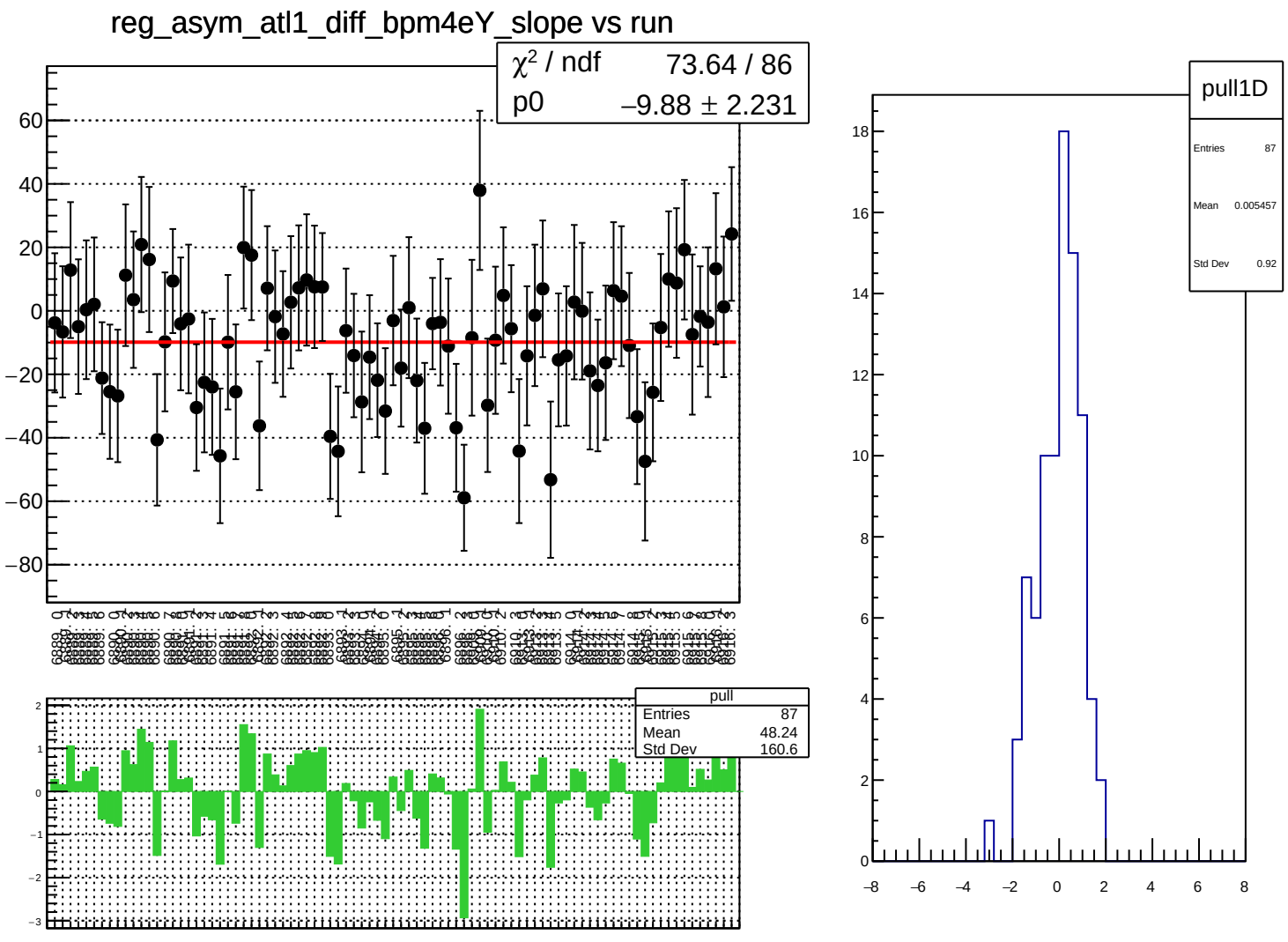

pull1D
Entries 87
Mean −0.01303
Std Dev 0.9334

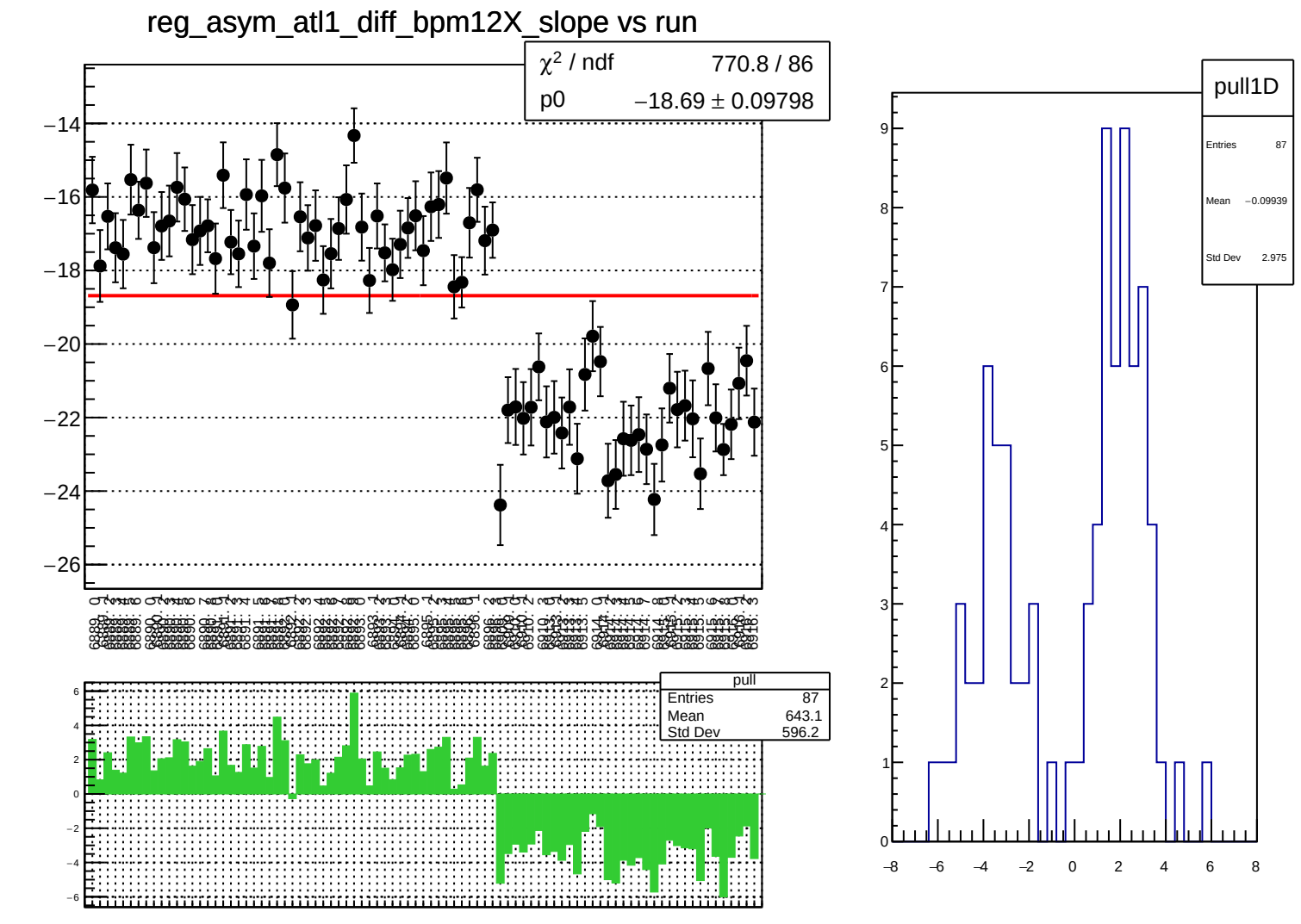

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 73.68 / 86
p0 5.664 ± 1.889
pull
Entries 87
Mean 239.2
Std Dev 240

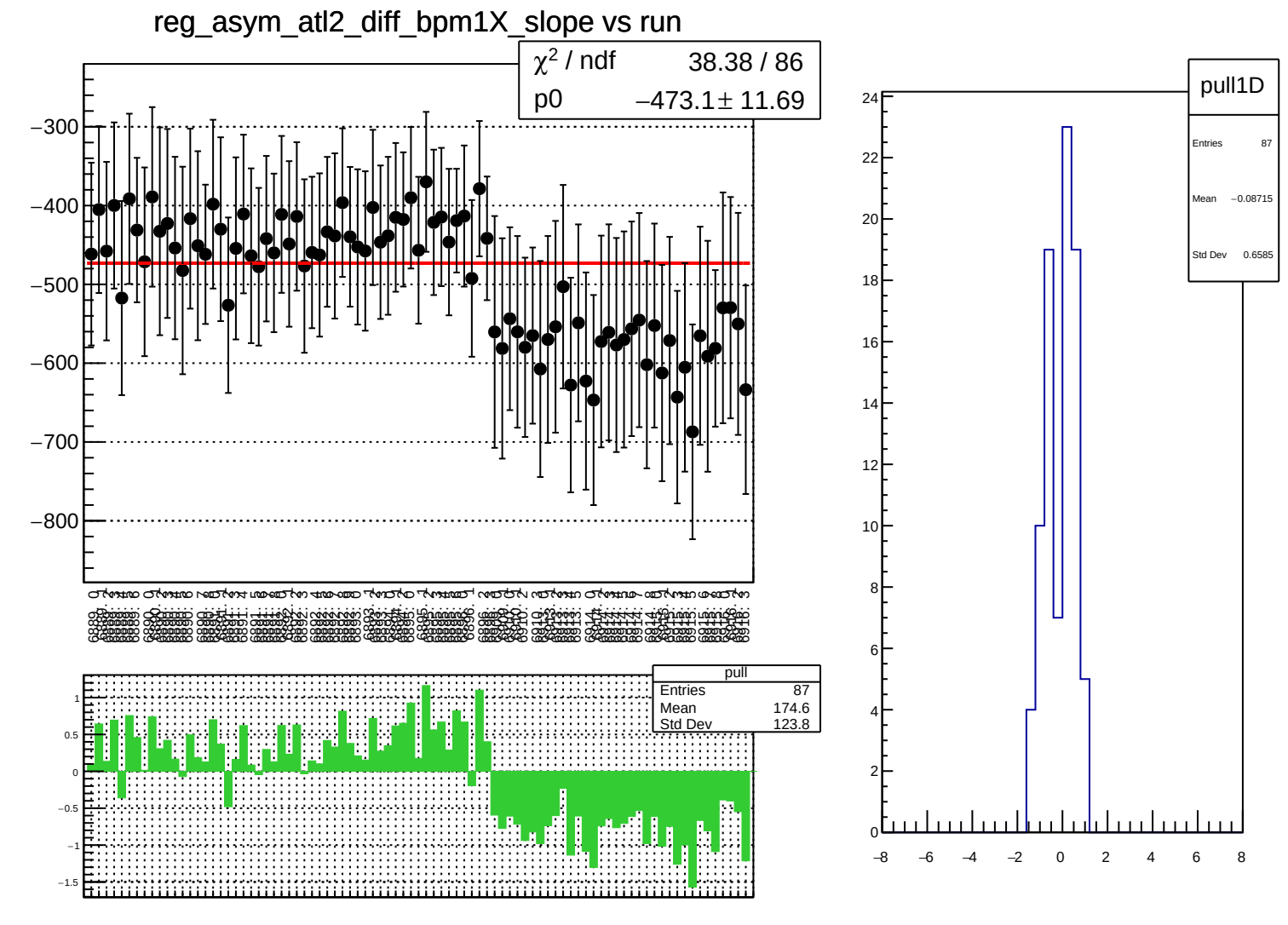

pull1D
Entries 87
Mean 0.005446
Std Dev 0.9202

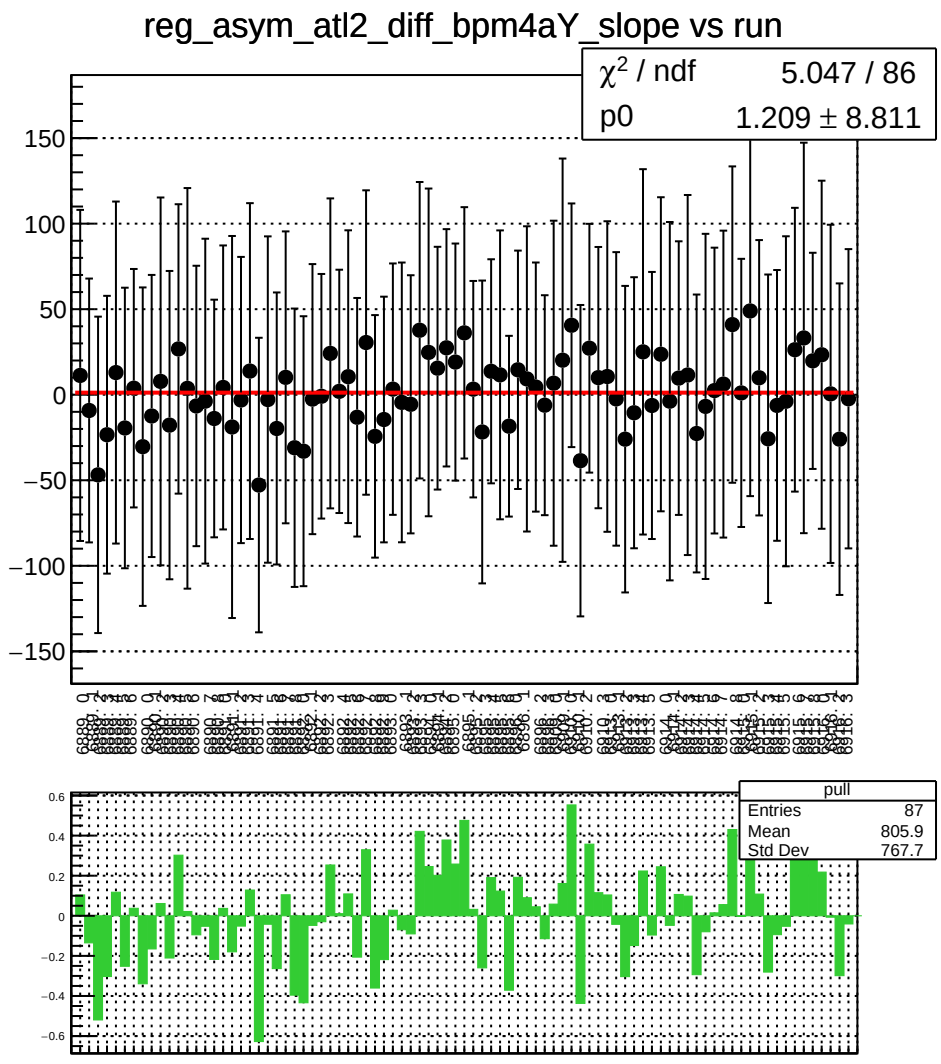

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 77.49 / 86
p0 57.53 ± 2.387
pull
Entries 87
Mean 268.2
Std Dev 236.5

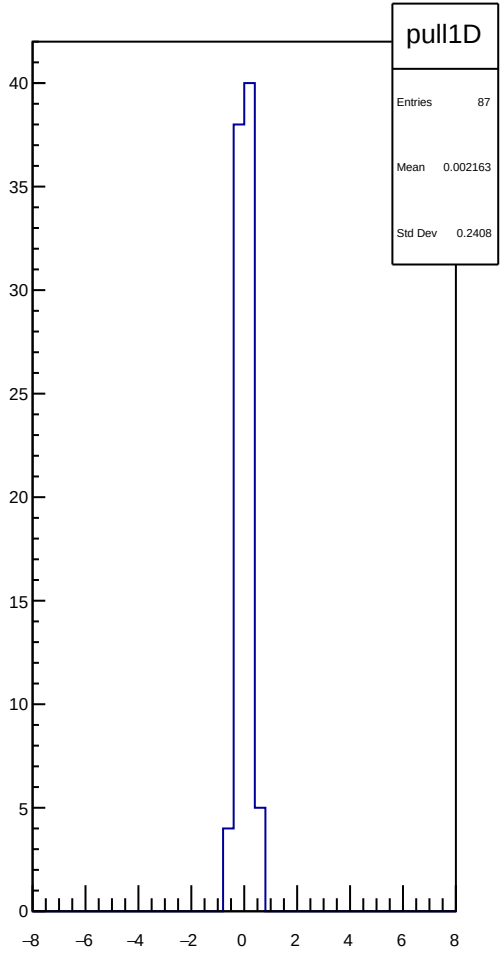

pull1D
Entries 87
Mean 0.01594
Std Dev 0.9436

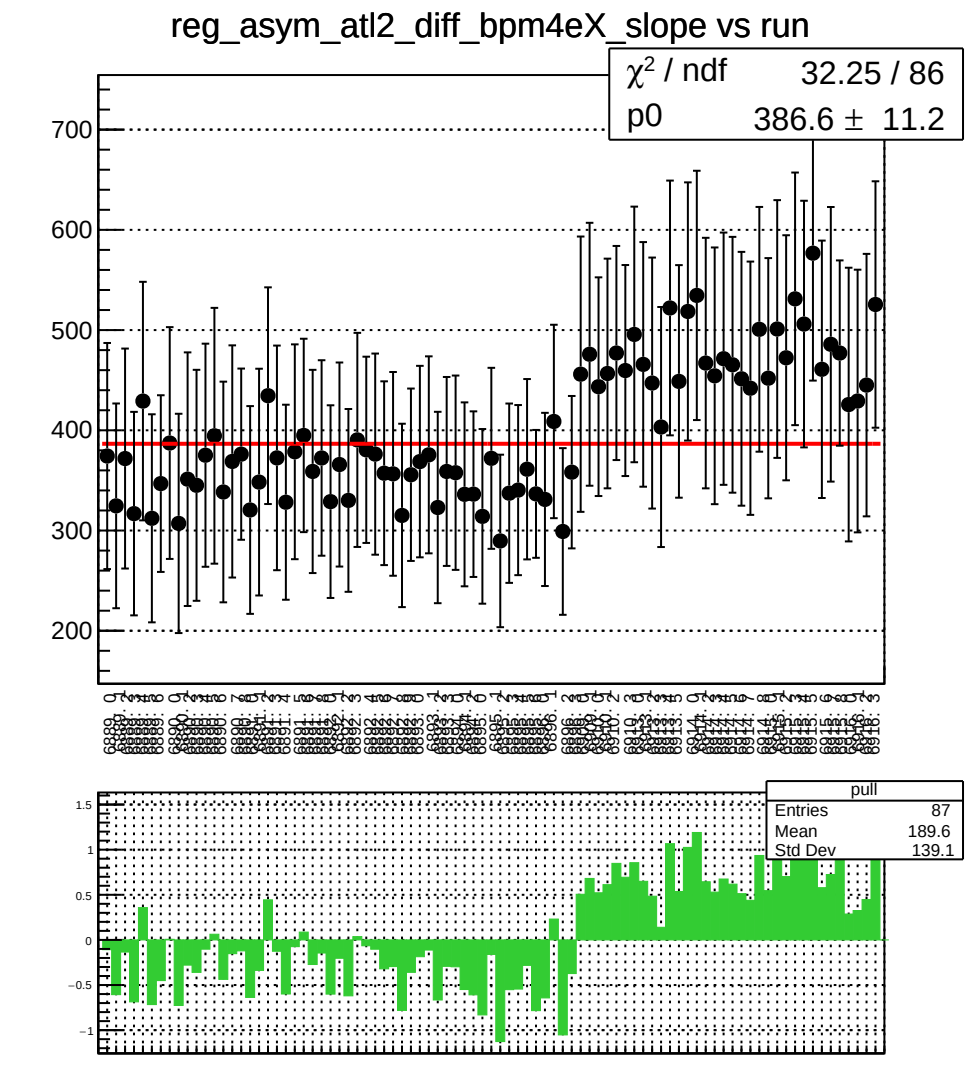

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 73.64 / 86
p0 −9.88 ± 2.231
pull
Entries 87
Mean 48.24
Std Dev 160.6
pull1D
Entries 87
Mean 0.005457
Std Dev 0.92

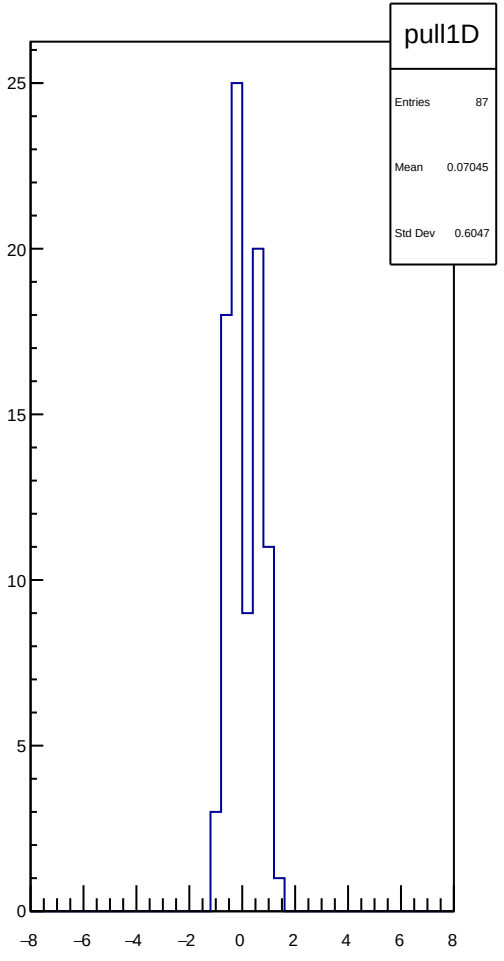

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 770.8 / 86
p0 −18.69 ± 0.09798
pull
Entries 87
Mean 643.1
Std Dev 596.2
pull1D
Entries 87
Mean −0.09939
Std Dev 2.975

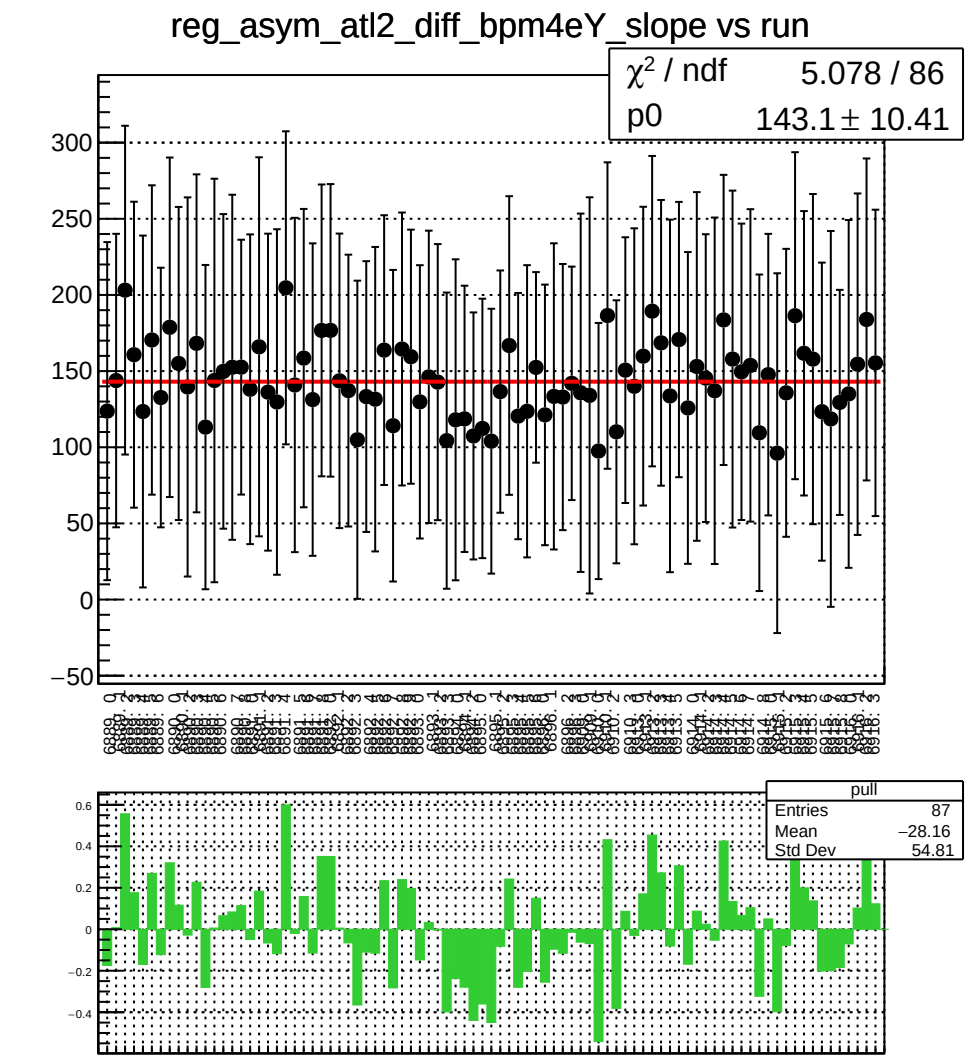

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 38.38 / 86
p0 −473.1 ± 11.69
−300
−400
−500
−600
−700
−800
pull
Entries 87
Mean 174.6
Std Dev 123.8
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean −0.08715
Std Dev 0.6585
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

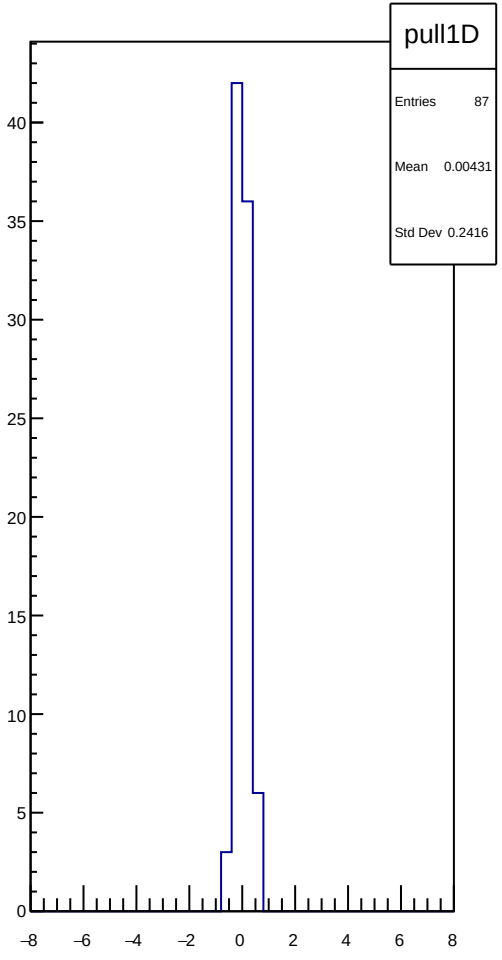

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.047 / 86
p0 1.209 ± 8.811
150
100
50
0
−50
−100
−150
pull
Entries 87
Mean 805.9
Std Dev 767.7
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

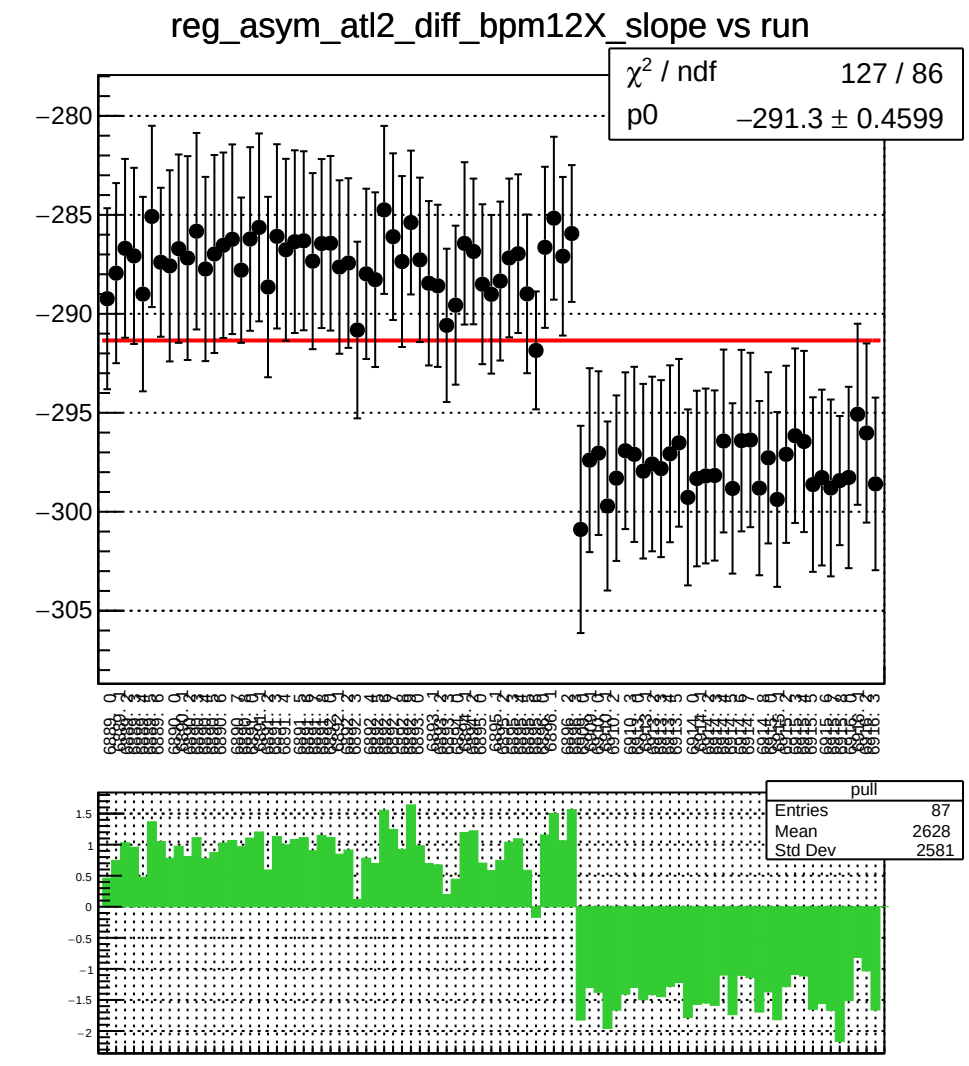

pull1D
Entries 87
Mean 0.002163
Std Dev 0.2408
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

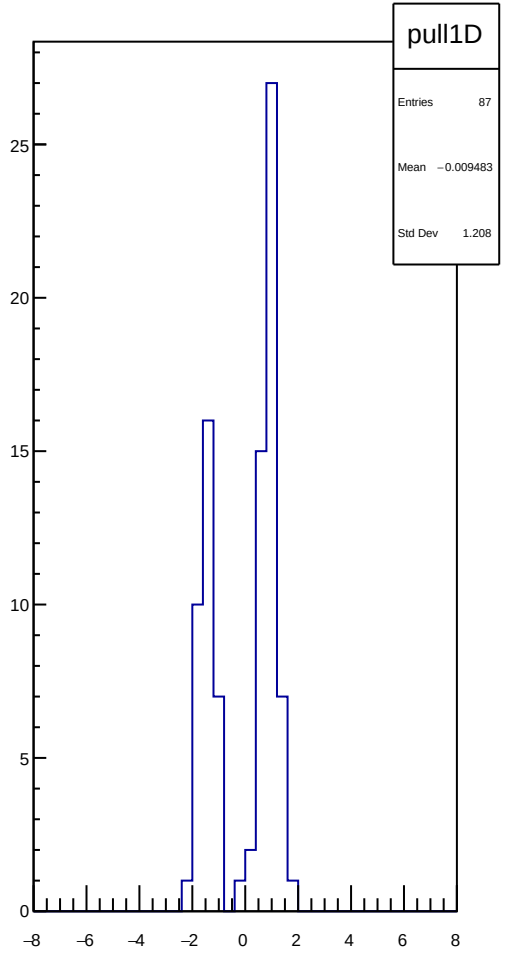

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 32.25 / 86
p0 386.6 ± 11.2
700
600
500
400
300
200
pull
Entries 87
Mean 189.6
Std Dev 139.1
1.5
1
0.5
0
−0.5
−1

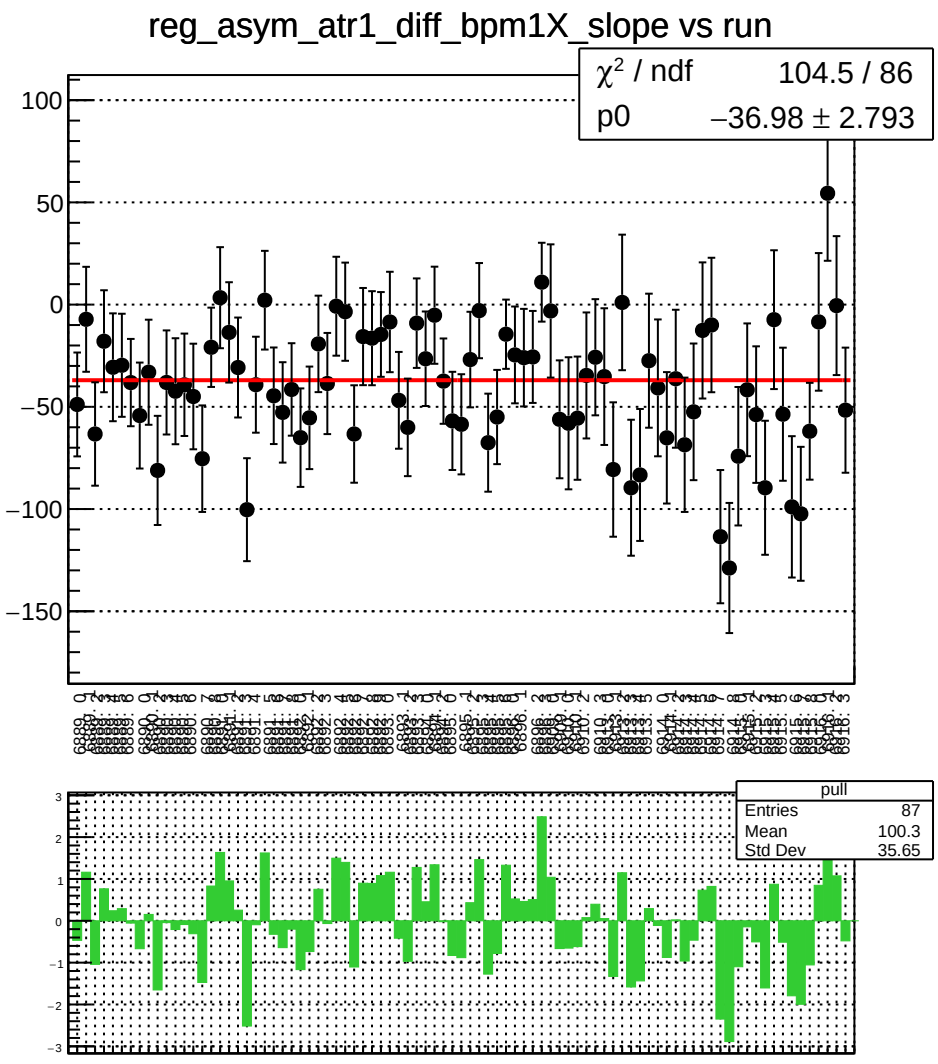

pull1D
Entries 87
Mean 0.07045
Std Dev 0.6047
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

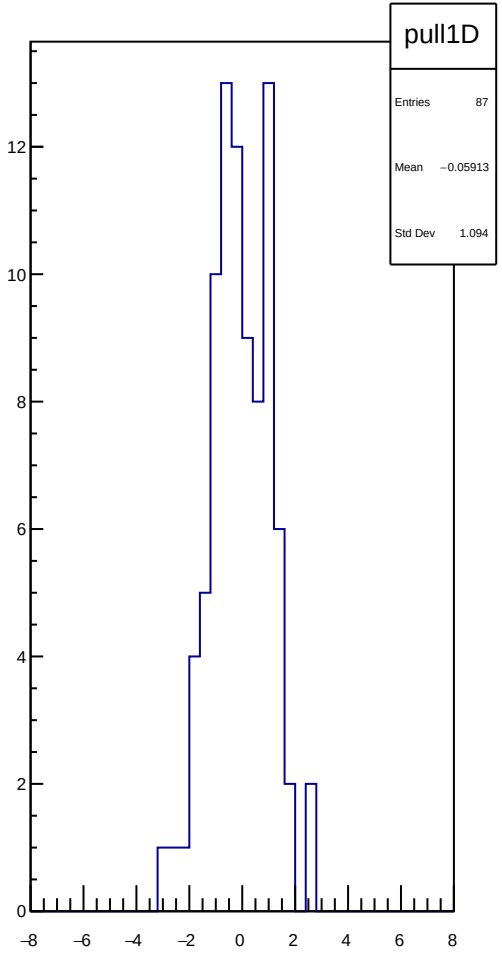

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.078 / 86
p0 143.1 ± 10.41
pull
Entries 87
Mean −28.16
Std Dev 54.81

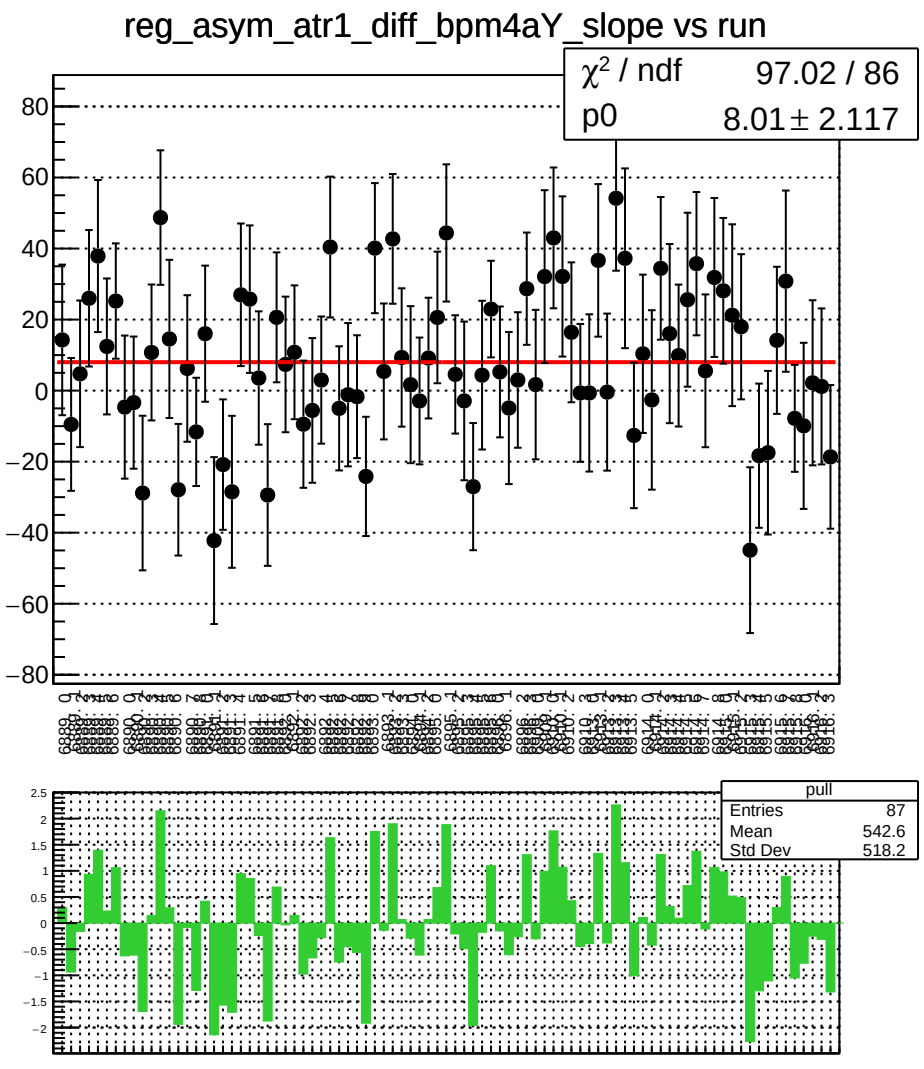

pull1D
Entries 87
Mean 0.00431
Std Dev 0.2416

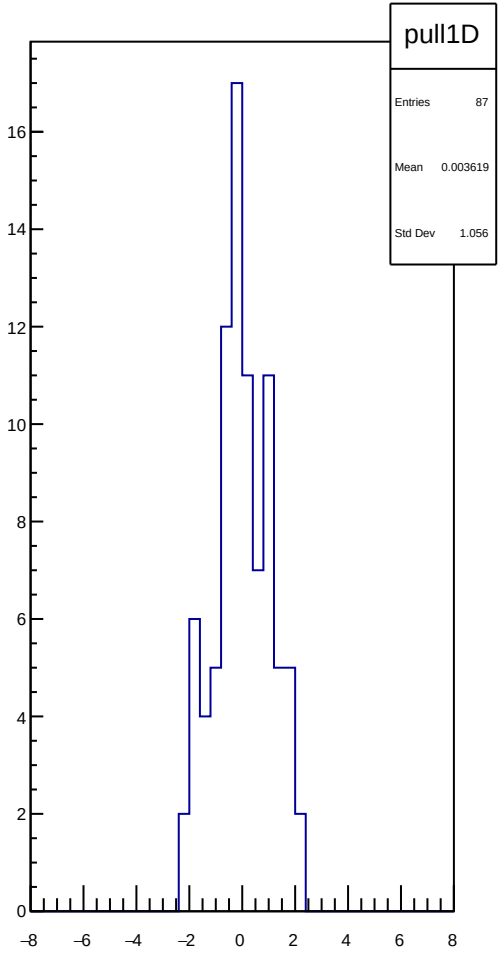

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 127 / 86
p0 −291.3 ± 0.4599
−280
−285
−290
−295
−300
−305
pull
Entries 87
Mean 2628
Std Dev 2581
1.5
1
0.5
0
−0.5
−1
−1.5
−2

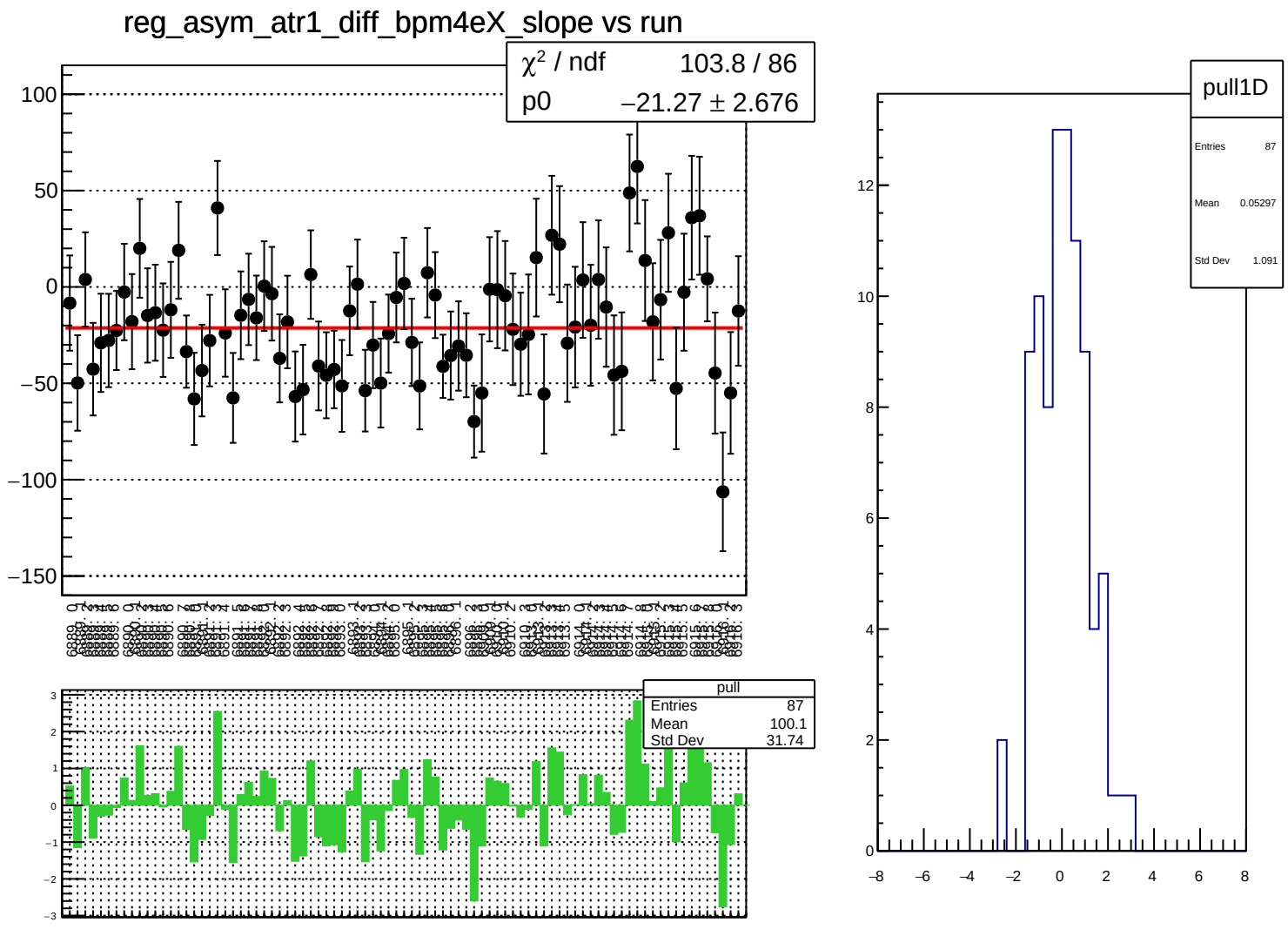

pull1D
Entries 87
Mean −0.009483
Std Dev 1.208
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

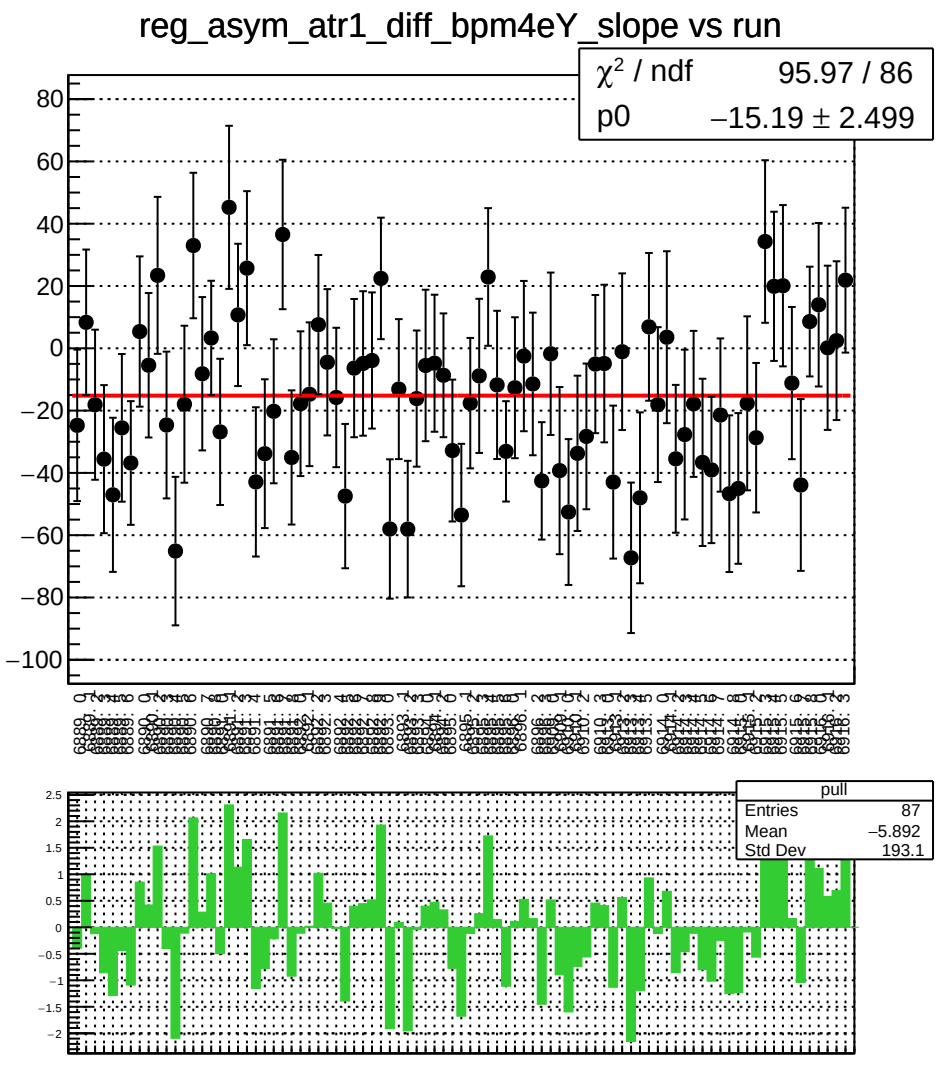

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 104.5 / 86
p0 −36.98 ± 2.793
pull
Entries 87
Mean 100.3
Std Dev 35.65

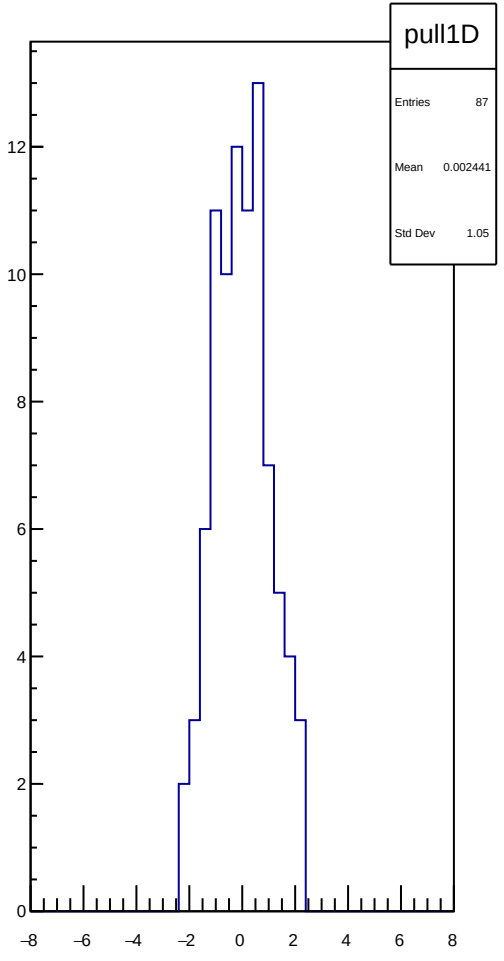

pull1D
Entries 87
Mean −0.05913
Std Dev 1.094

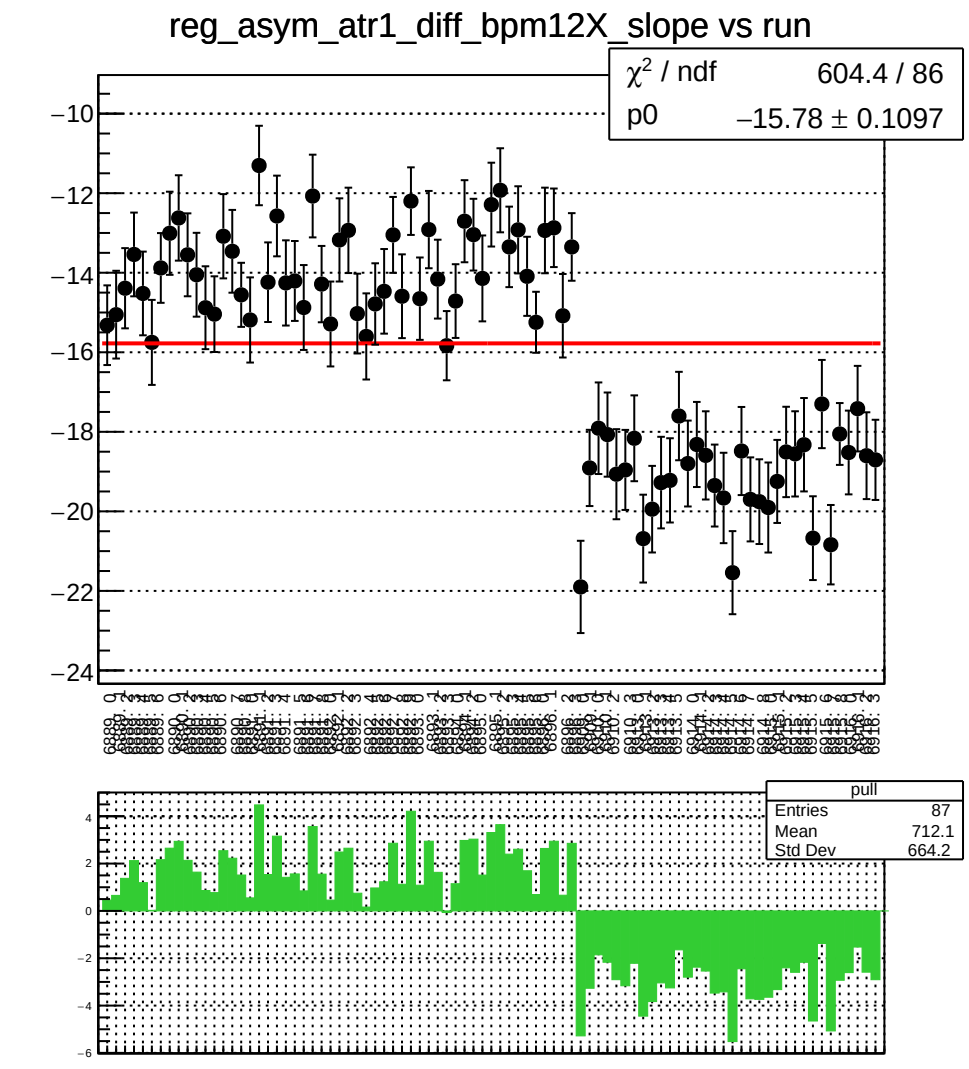

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 97.02 / 86
p0 8.01 ± 2.117
pull
Entries 87
Mean 542.6
Std Dev 518.2

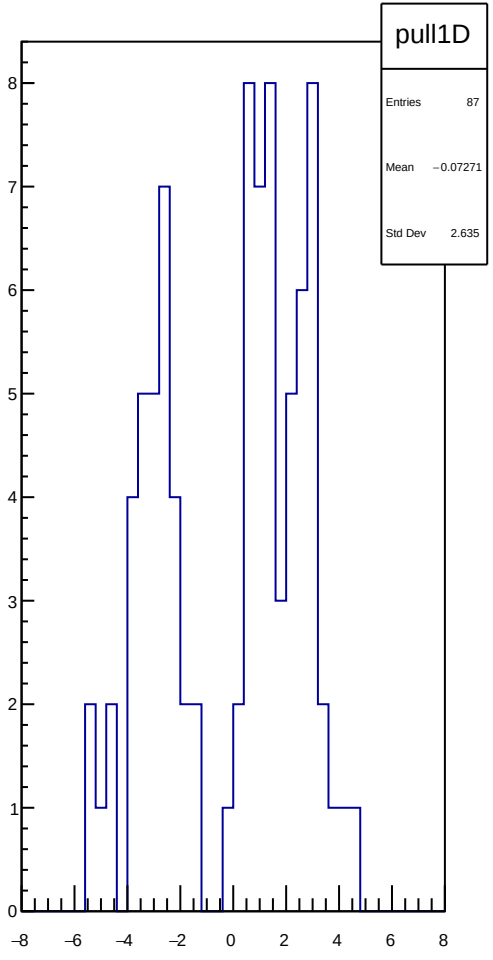

pull1D
Entries 87
Mean 0.003619
Std Dev 1.056

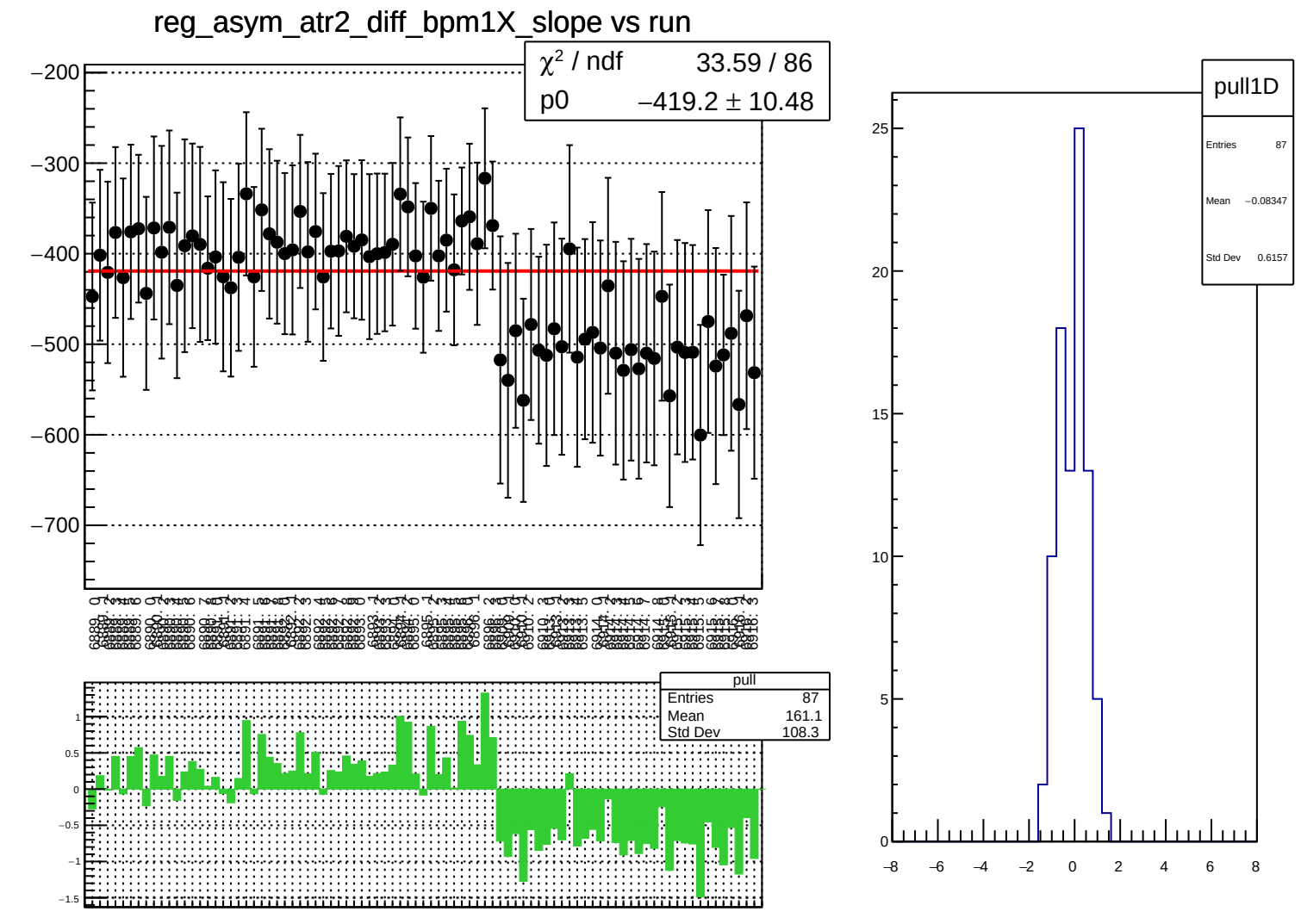

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 103.8 / 86
p0 −21.27 ± 2.676
pull
Entries 87
Mean 100.1
Std Dev 31.74
pull1D
Entries 87
Mean 0.05297
Std Dev 1.091

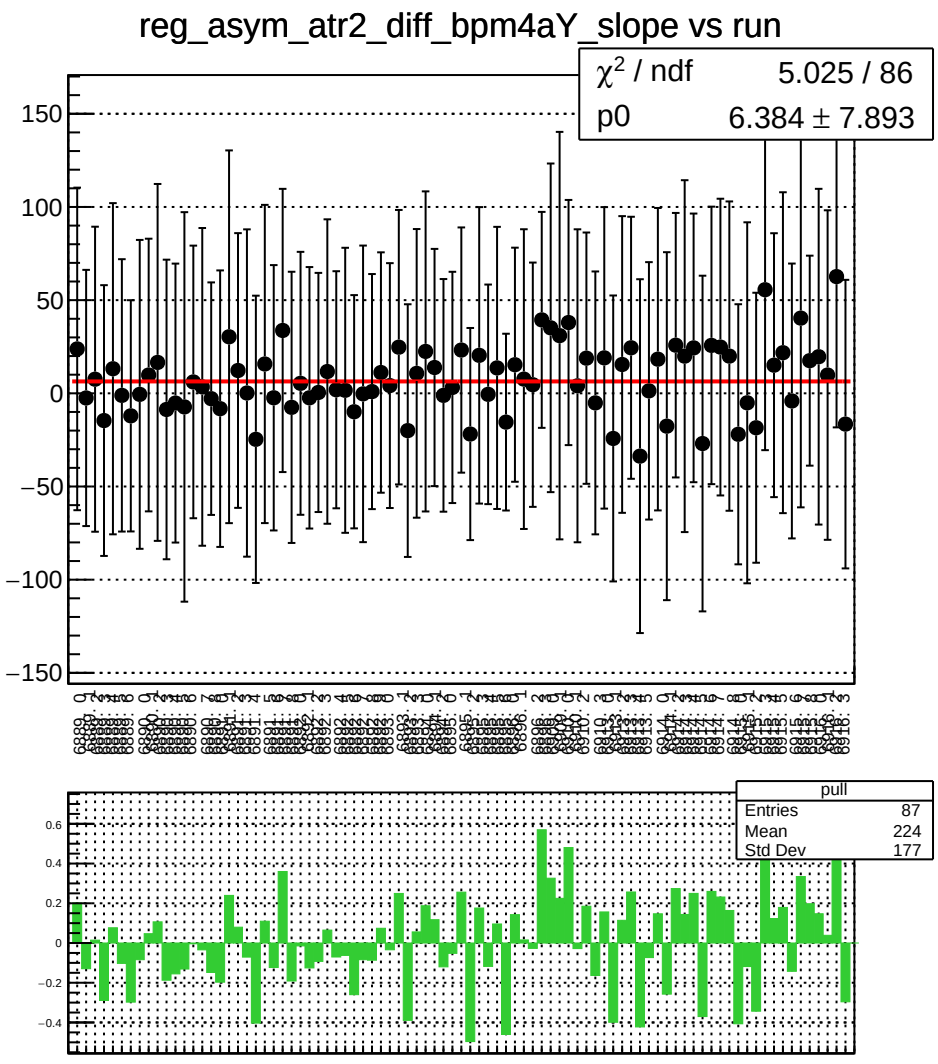

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 95.97 / 86
p0 −15.19 ± 2.499
pull
Entries 87
Mean −5.892
Std Dev 193.1

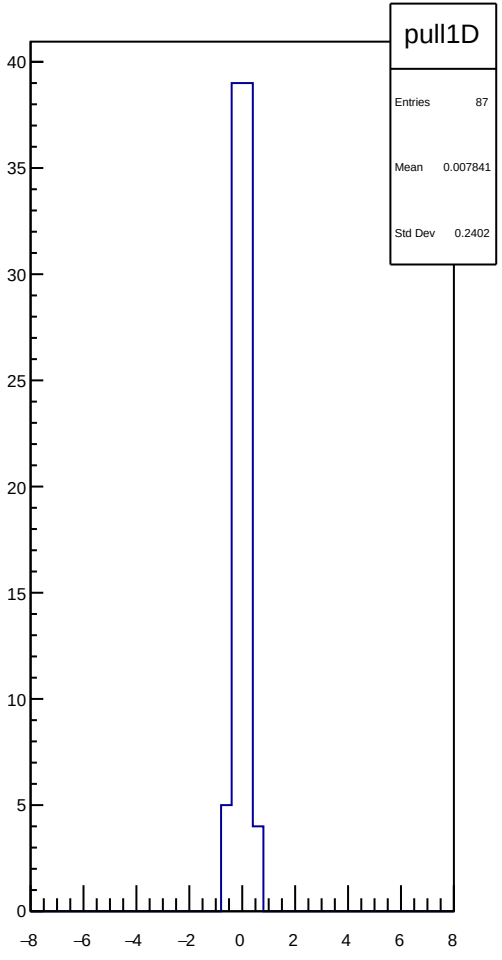

pull1D
Entries 87
Mean 0.002441
Std Dev 1.05

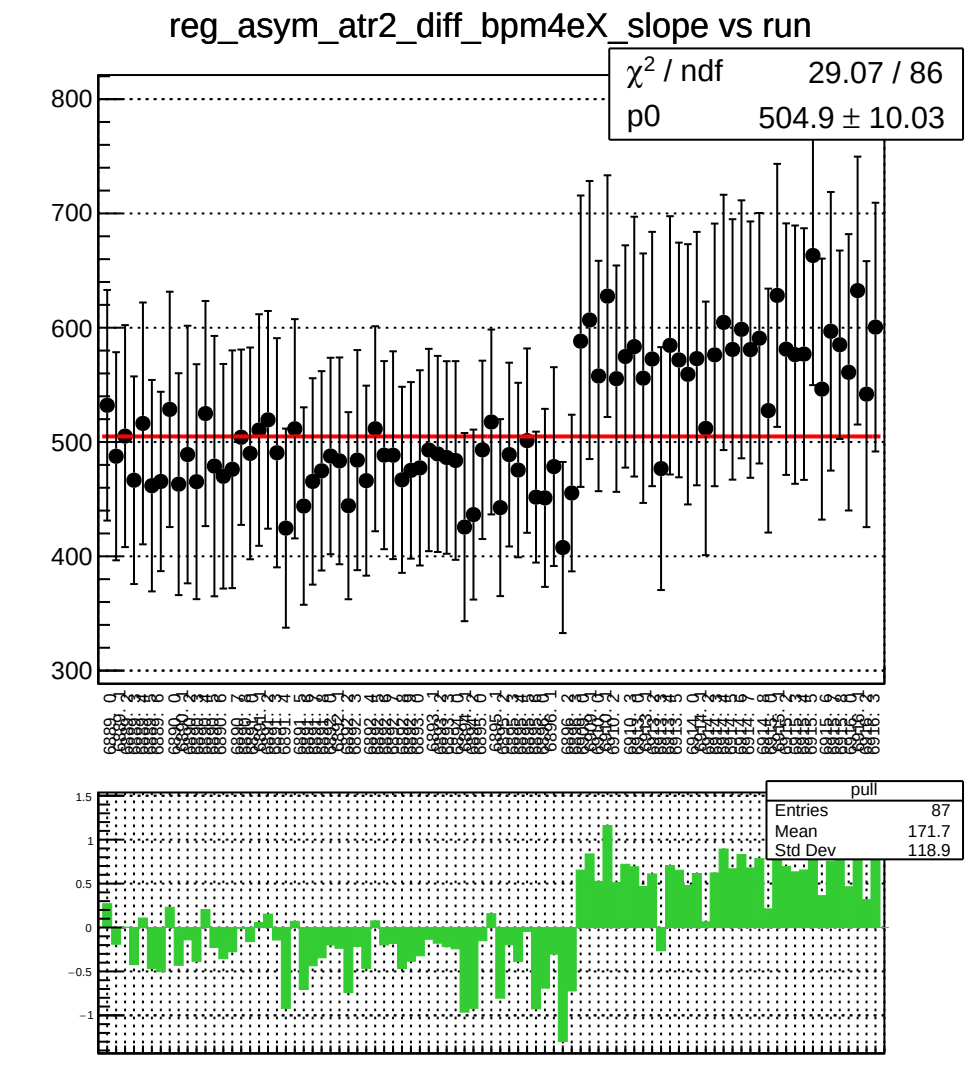

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 604.4 / 86
p0 −15.78 ± 0.1097
pull
Entries 87
Mean 712.1
Std Dev 664.2

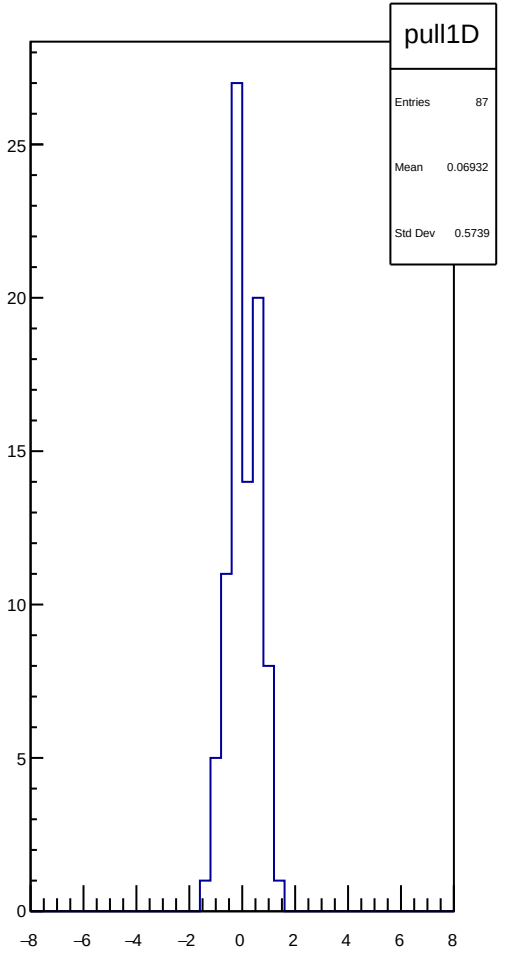

pull1D
Entries 87
Mean −0.07271
Std Dev 2.635

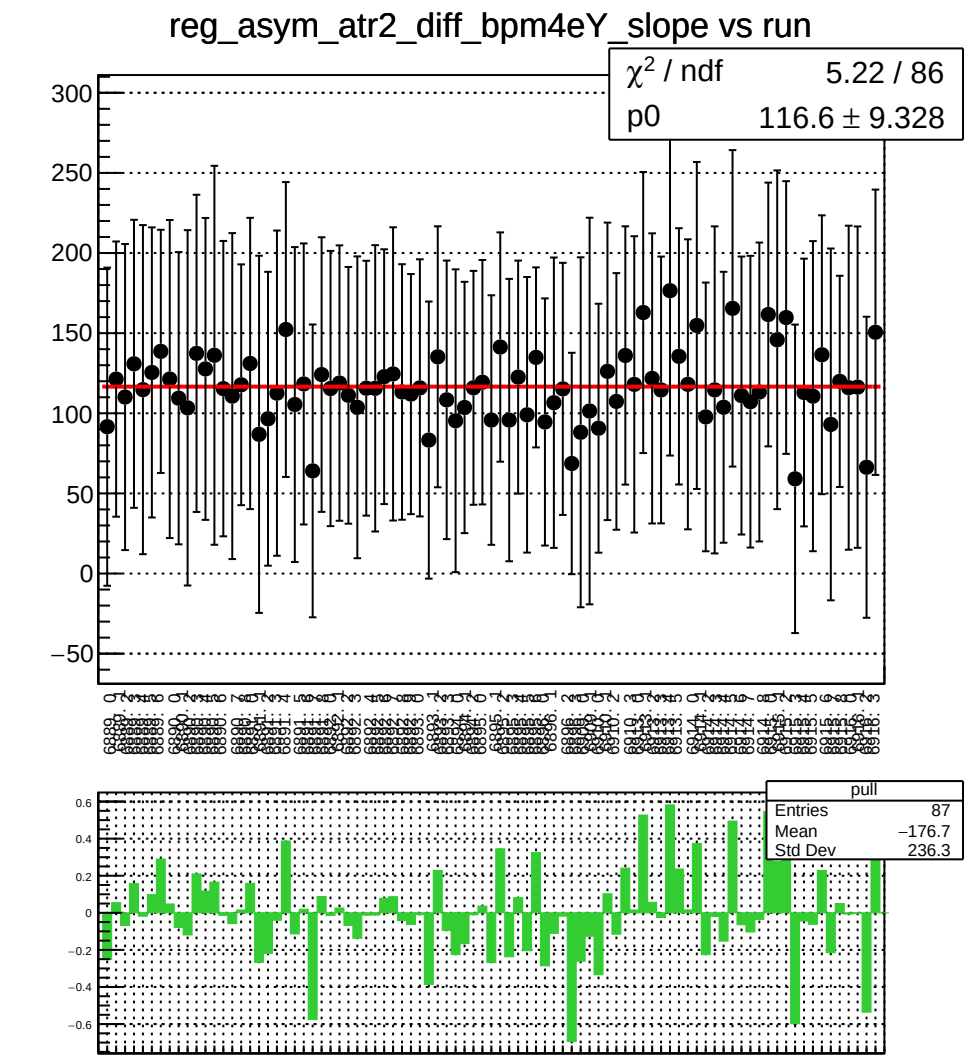

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 33.59 / 86
p0 −419.2 ± 10.48
−200
−300
−400
−500
−600
−700
pull
Entries 87
Mean 161.1
Std Dev 108.3
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean −0.08347
Std Dev 0.6157
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

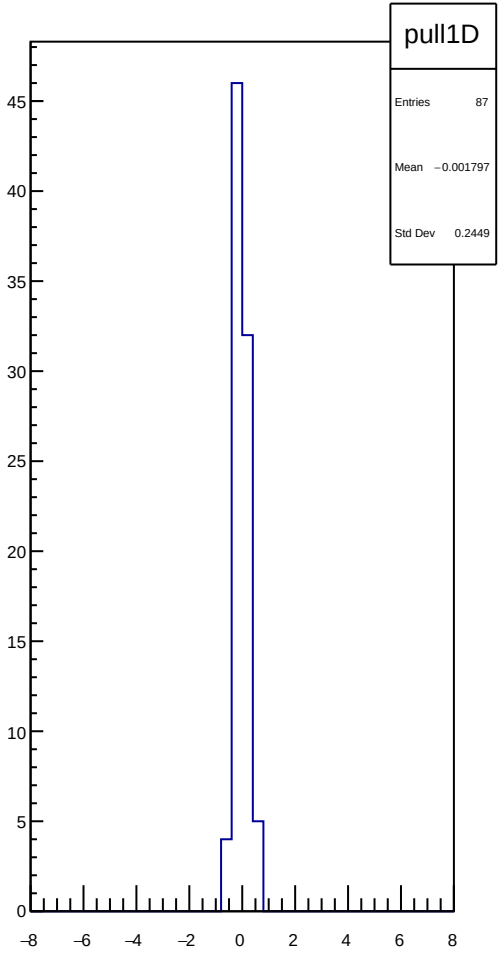

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 5.025 / 86
p0 6.384 ± 7.893
pull
Entries 87
Mean 224
Std Dev 177

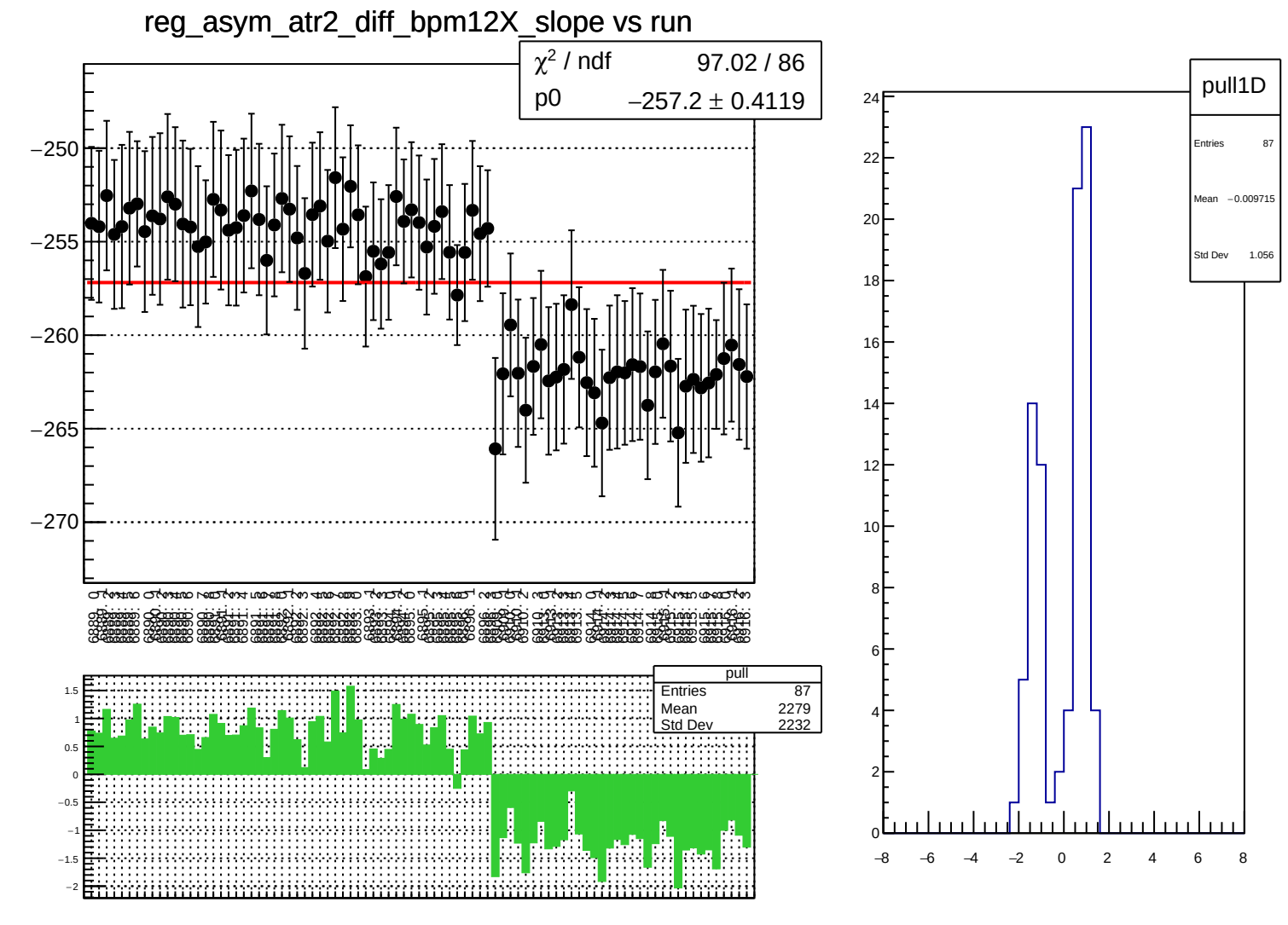

pull1D
Entries 87
Mean 0.007841
Std Dev 0.2402

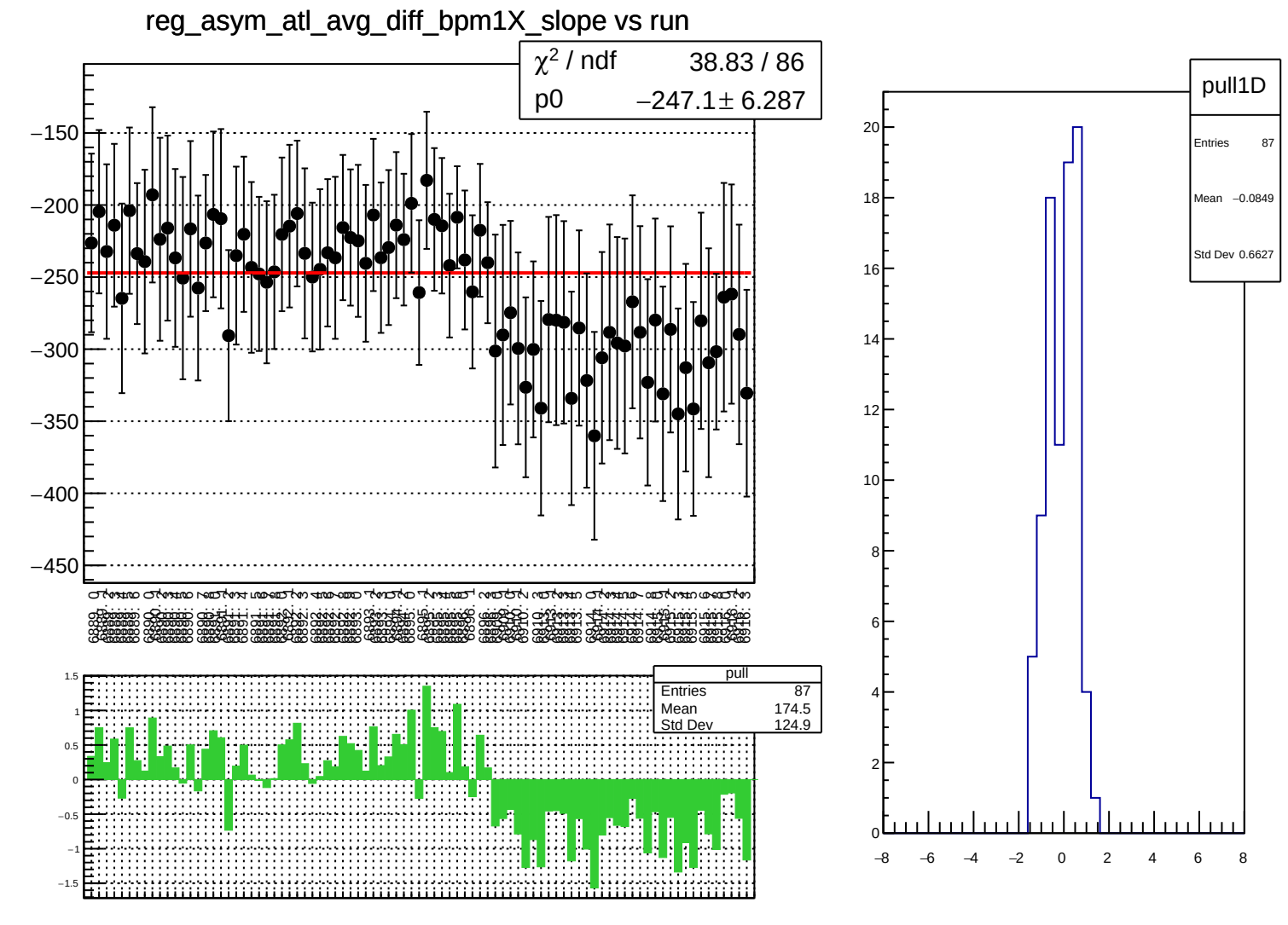

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 29.07 / 86
p0 504.9 ± 10.03
800
700
600
500
400
300
pull
Entries 87
Mean 171.7
Std Dev 118.9
1.5
1
0.5
0
−0.5
−1

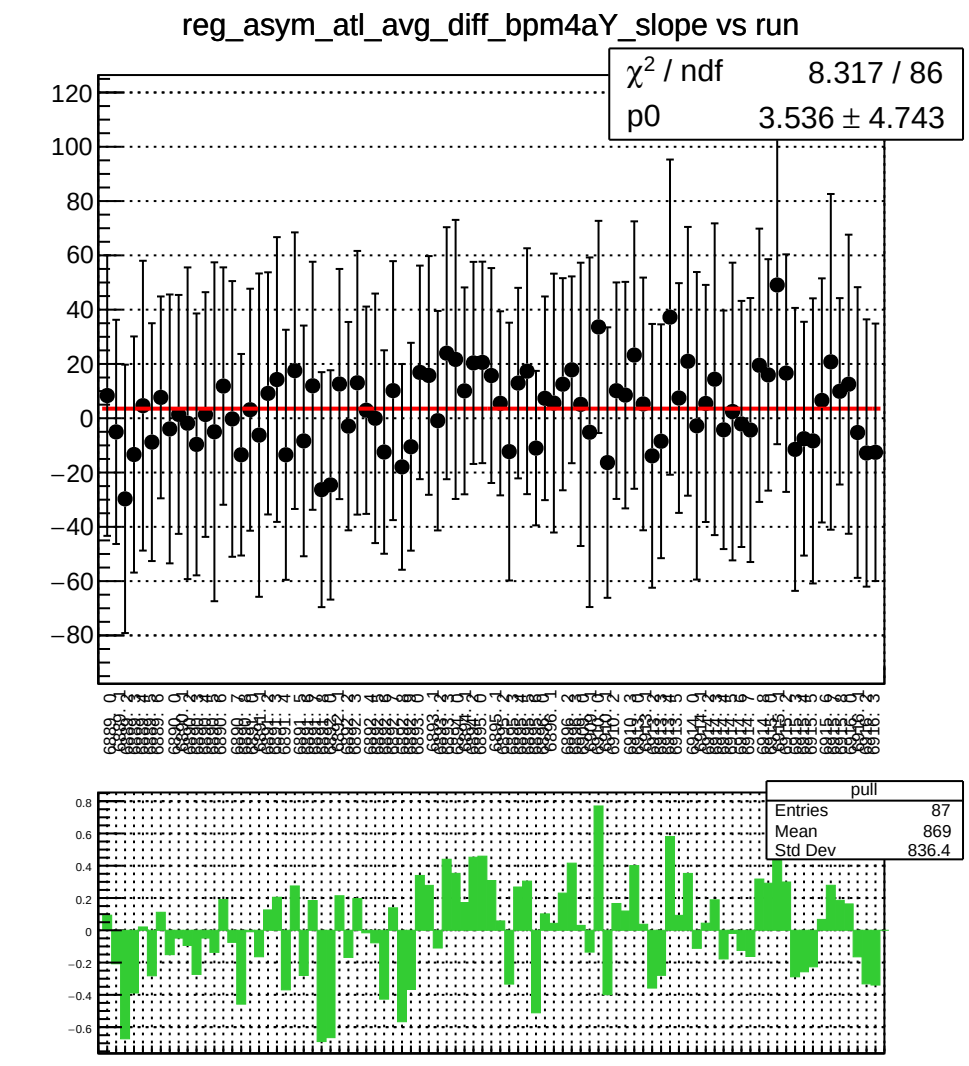

pull1D
Entries 87
Mean 0.06932
Std Dev 0.5739
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

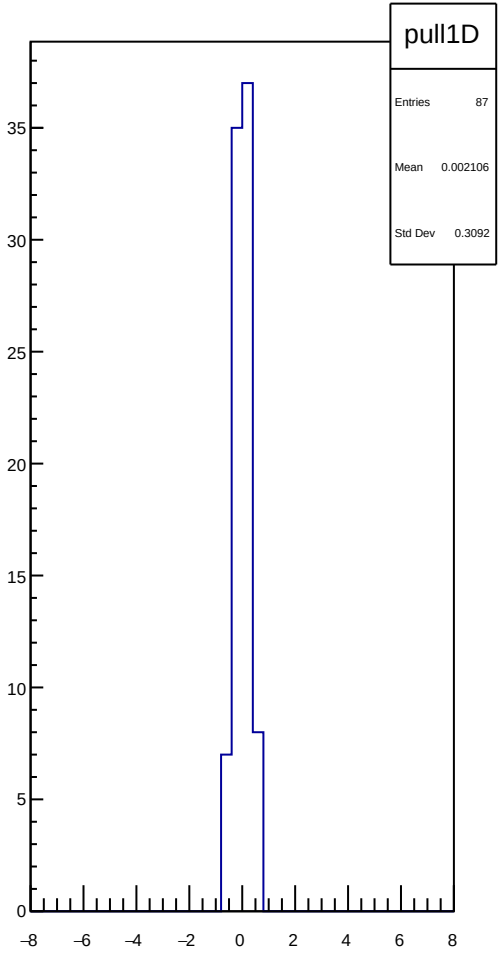

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 5.22 / 86
p0 116.6 ± 9.328
pull
Entries 87
Mean −176.7
Std Dev 236.3

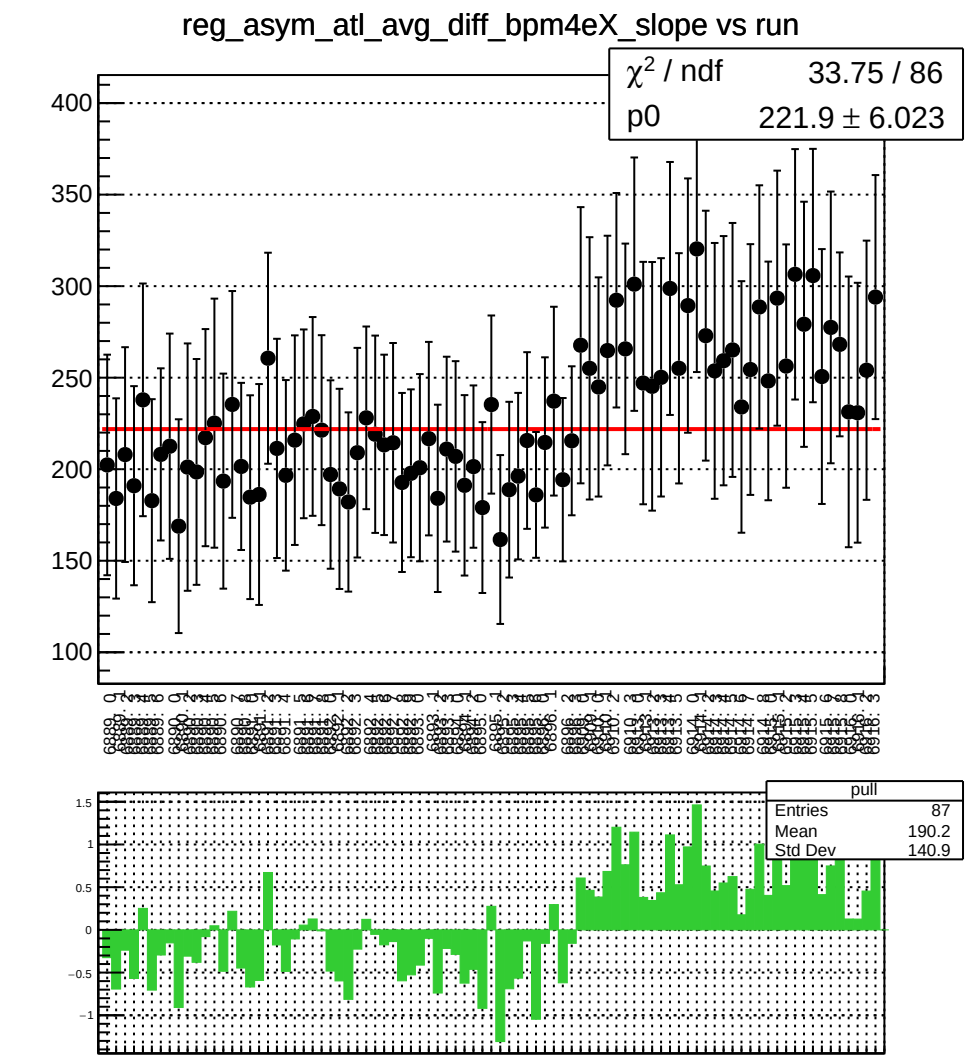

pull1D
Entries 87
Mean −0.001797
Std Dev 0.2449

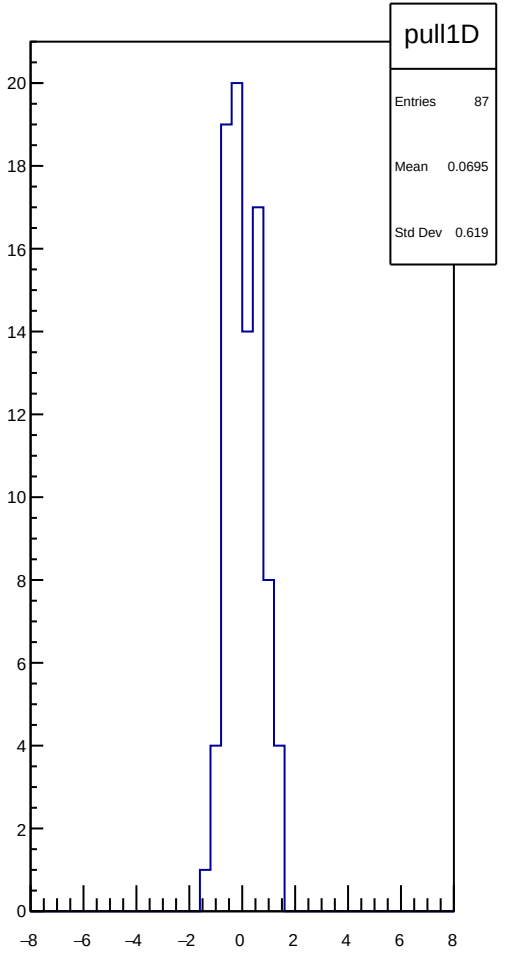

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 97.02 / 86
p0 −257.2 ± 0.4119
−250
−255
−260
−265
−270
pull
Entries 87
Mean 2279
Std Dev 2232
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 87
Mean −0.009715
Std Dev 1.056
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

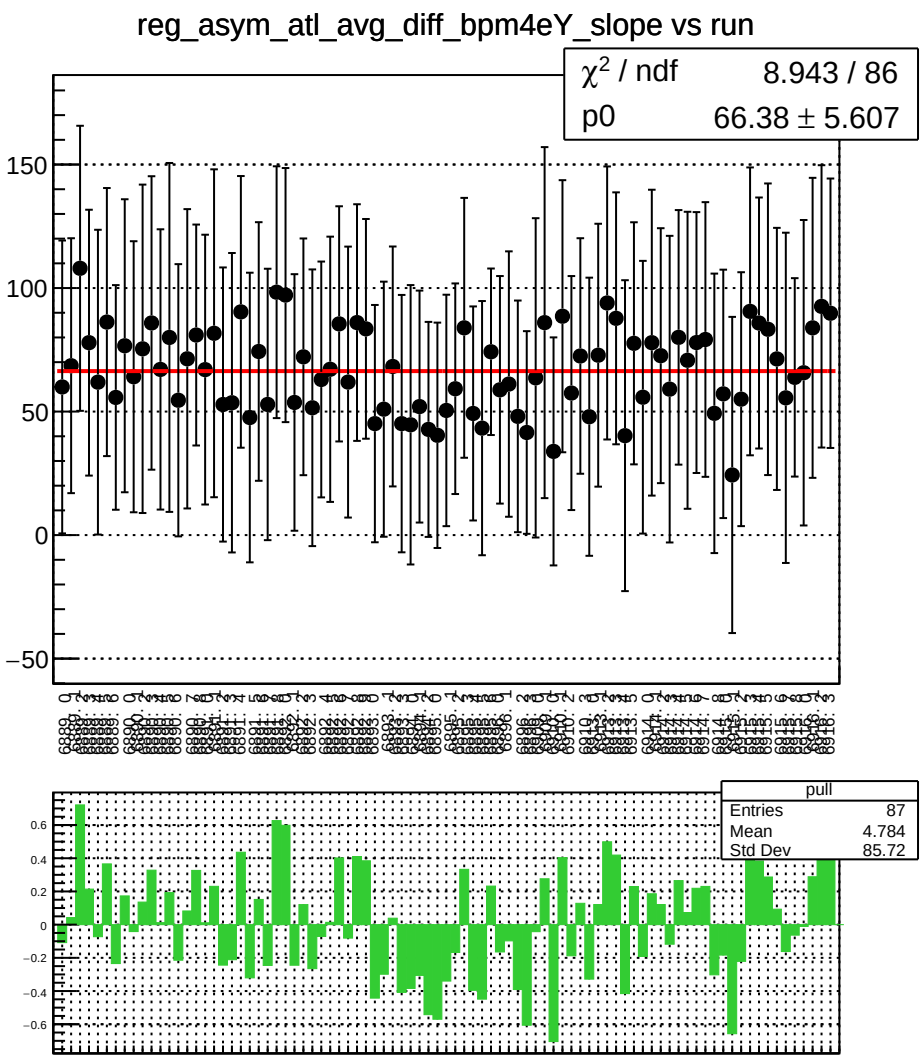

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 38.83 / 86
p0 −247.1± 6.287
−150
−200
−250
−300
−350
−400
−450
pull
Entries 87
Mean 174.5
Std Dev 124.9
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean −0.0849
Std Dev 0.6627
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

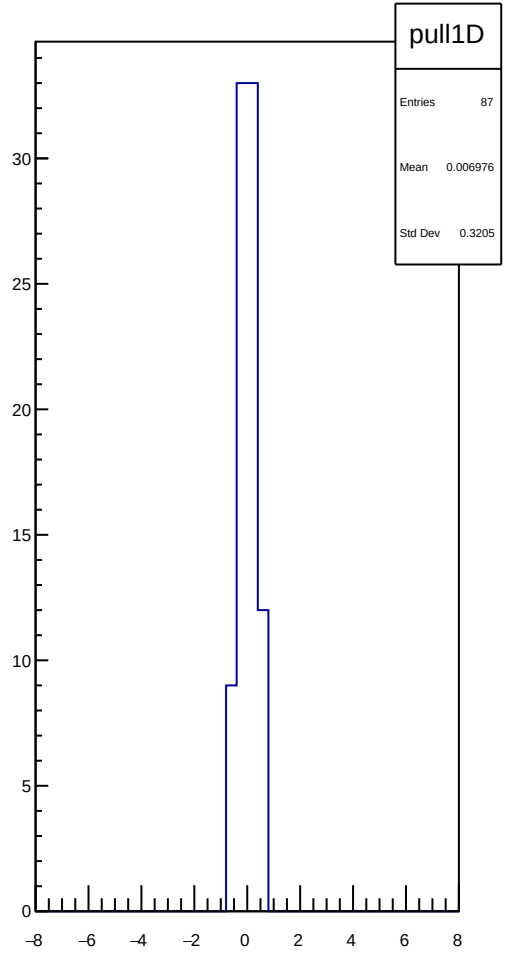

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.317 / 86
p0 3.536 ± 4.743
pull
Entries 87
Mean 869
Std Dev 836.4

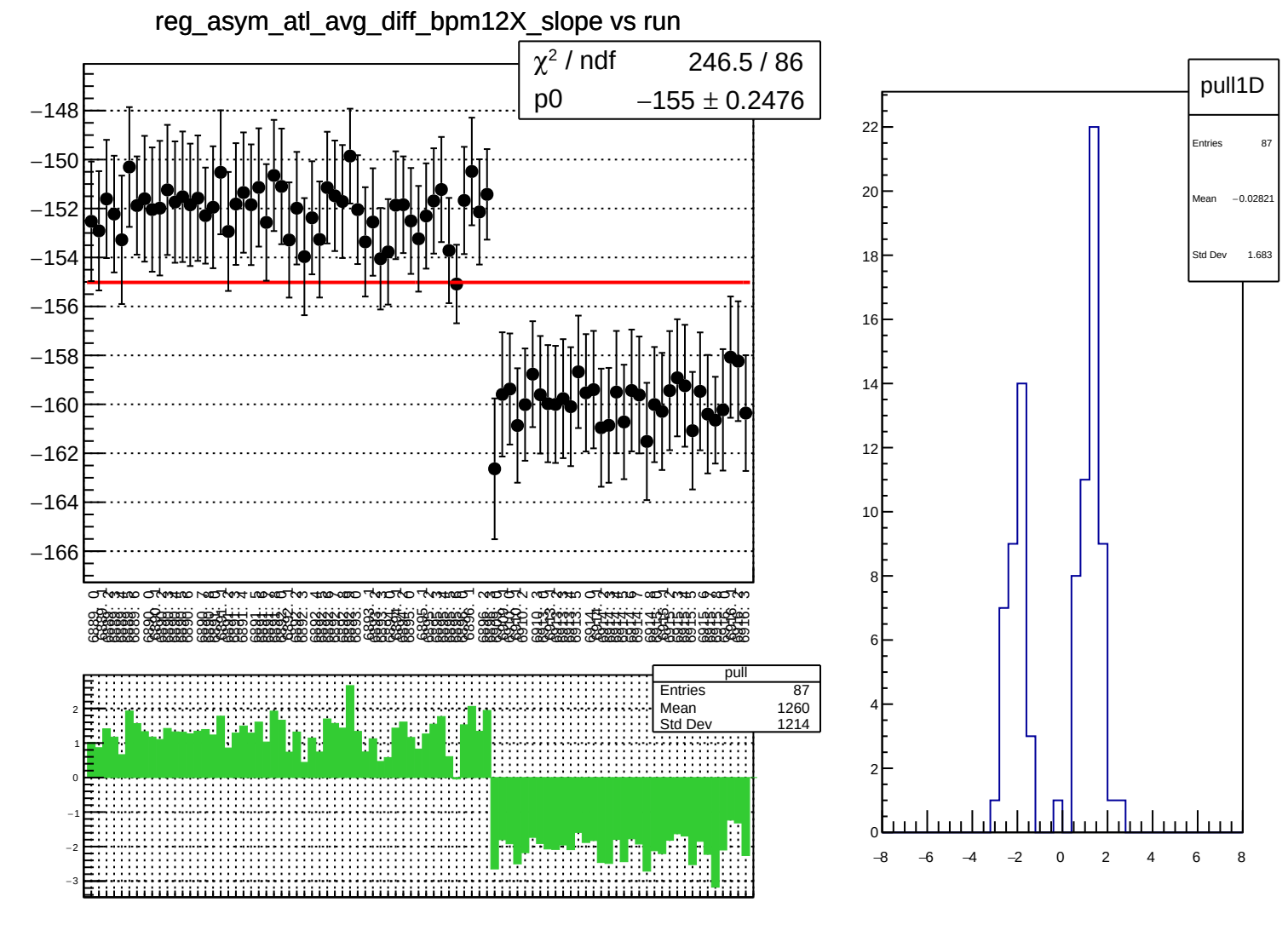

pull1D
Entries 87
Mean 0.002106
Std Dev 0.3092

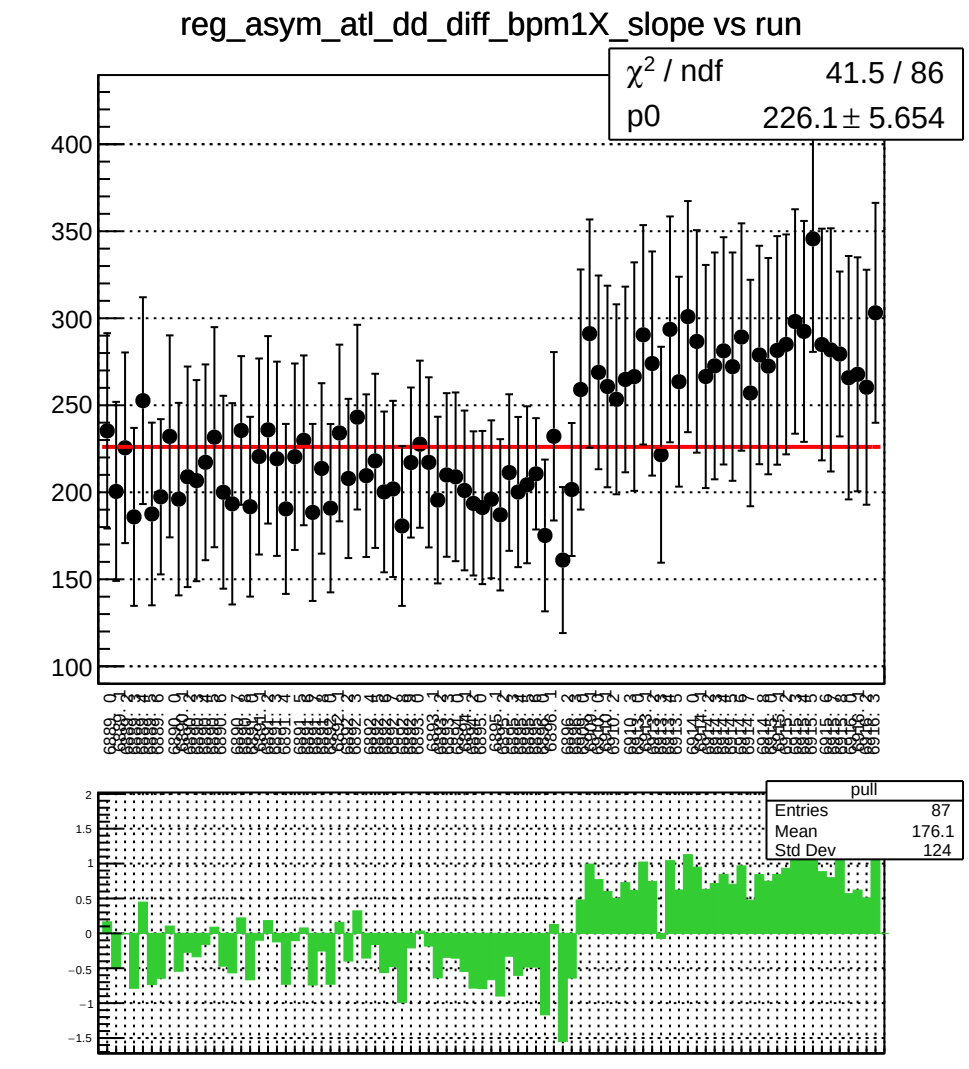

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.75 / 86
p0 221.9 ± 6.023
pull
Entries 87
Mean 190.2
Std Dev 140.9

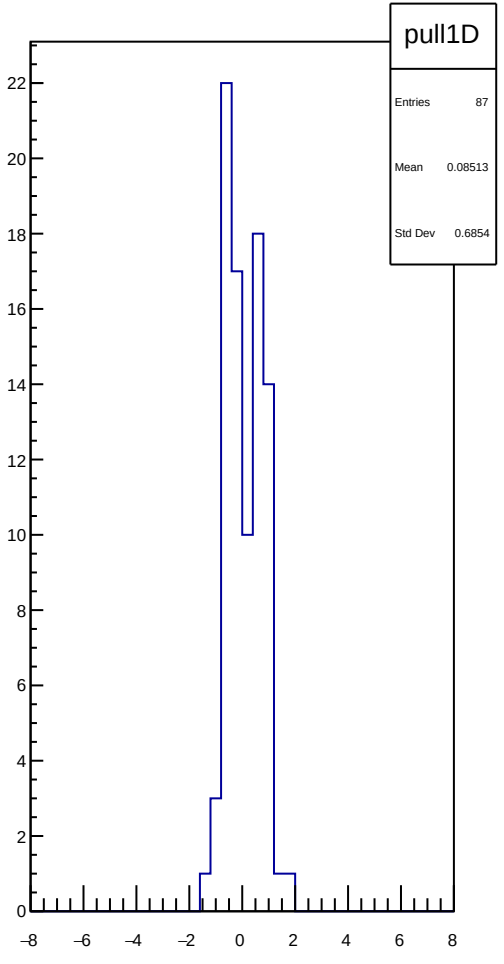

pull1D
Entries 87
Mean 0.0695
Std Dev 0.619

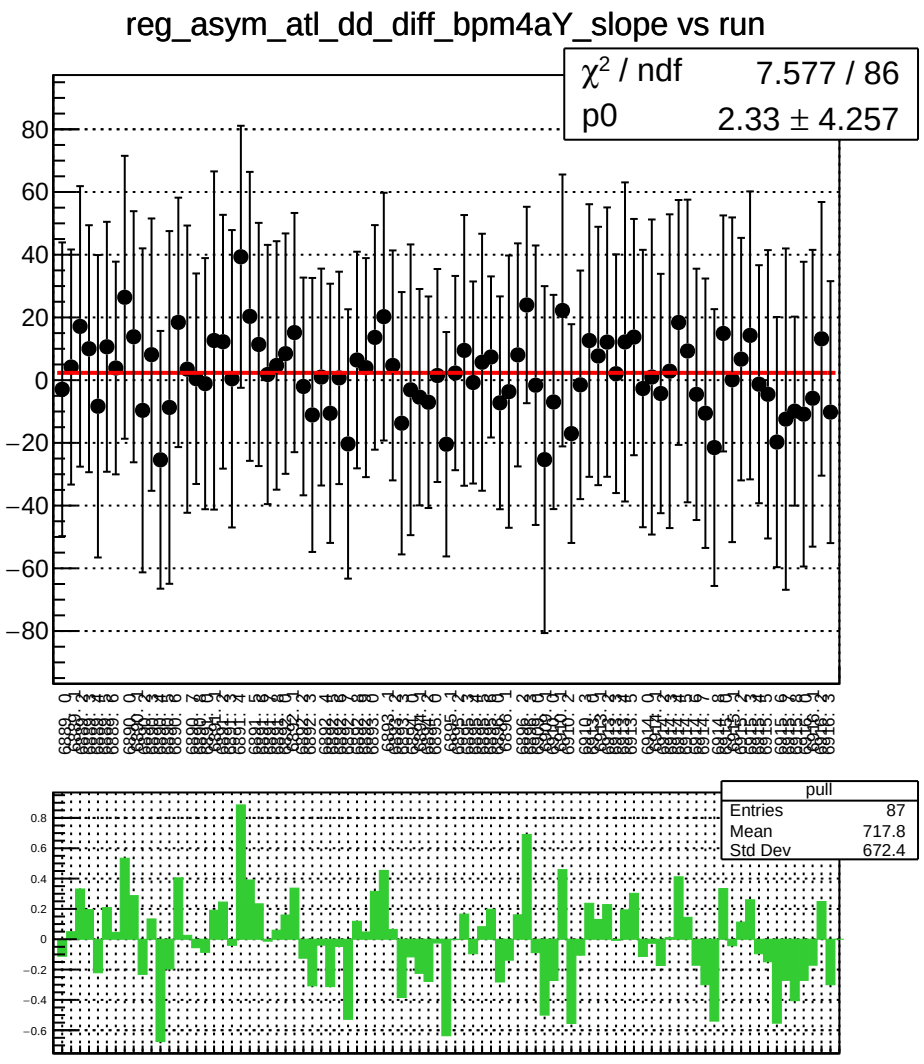

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.943 / 86
p0 66.38 ± 5.607
150
100
50
0
−50
pull
Entries 87
Mean 4.784
Std Dev 85.72
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

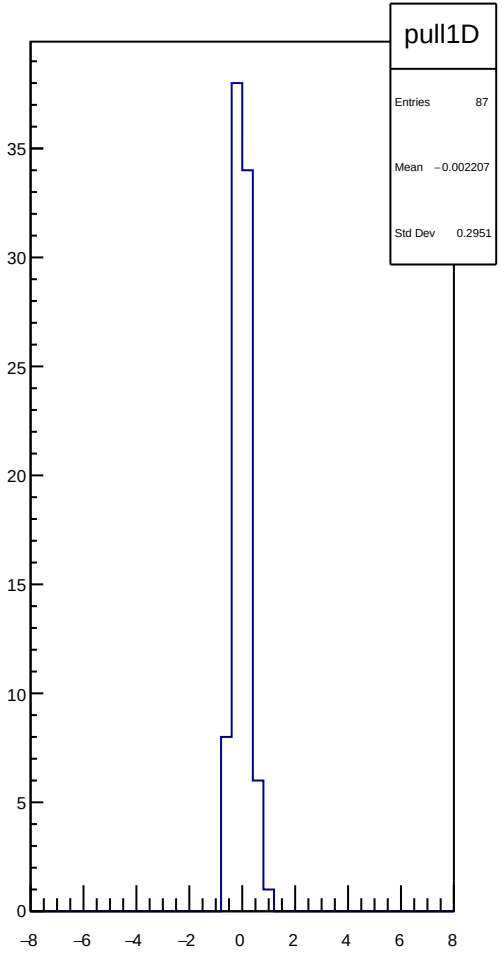

pull1D
Entries 87
Mean 0.006976
Std Dev 0.3205
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

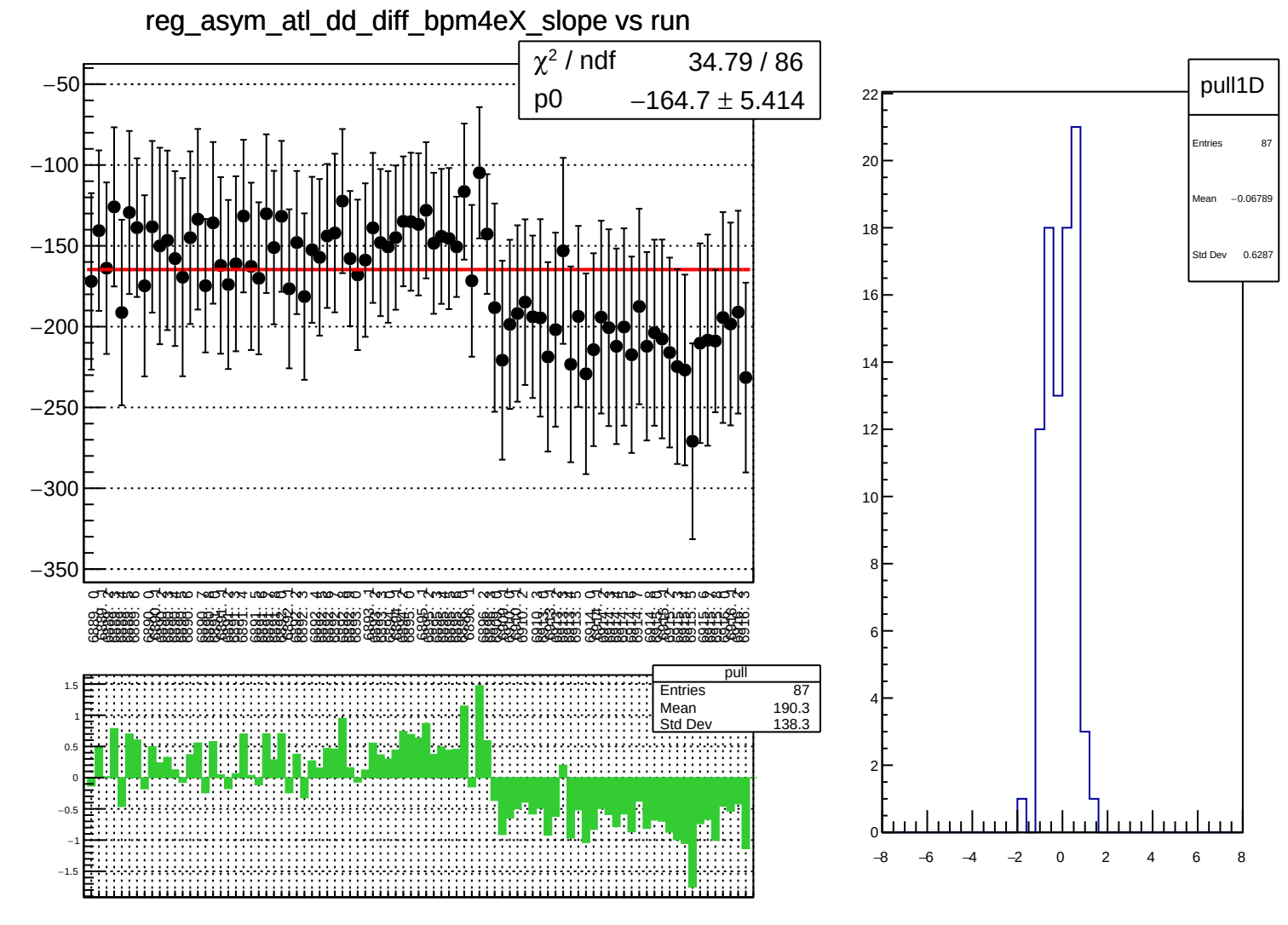

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 246.5 / 86
p0 −155 ± 0.2476
−148
−150
−152
−154
−156
−158
−160
−162
−164
−166
pull
Entries 87
Mean 1260
Std Dev 1214
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.02821
Std Dev 1.683
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

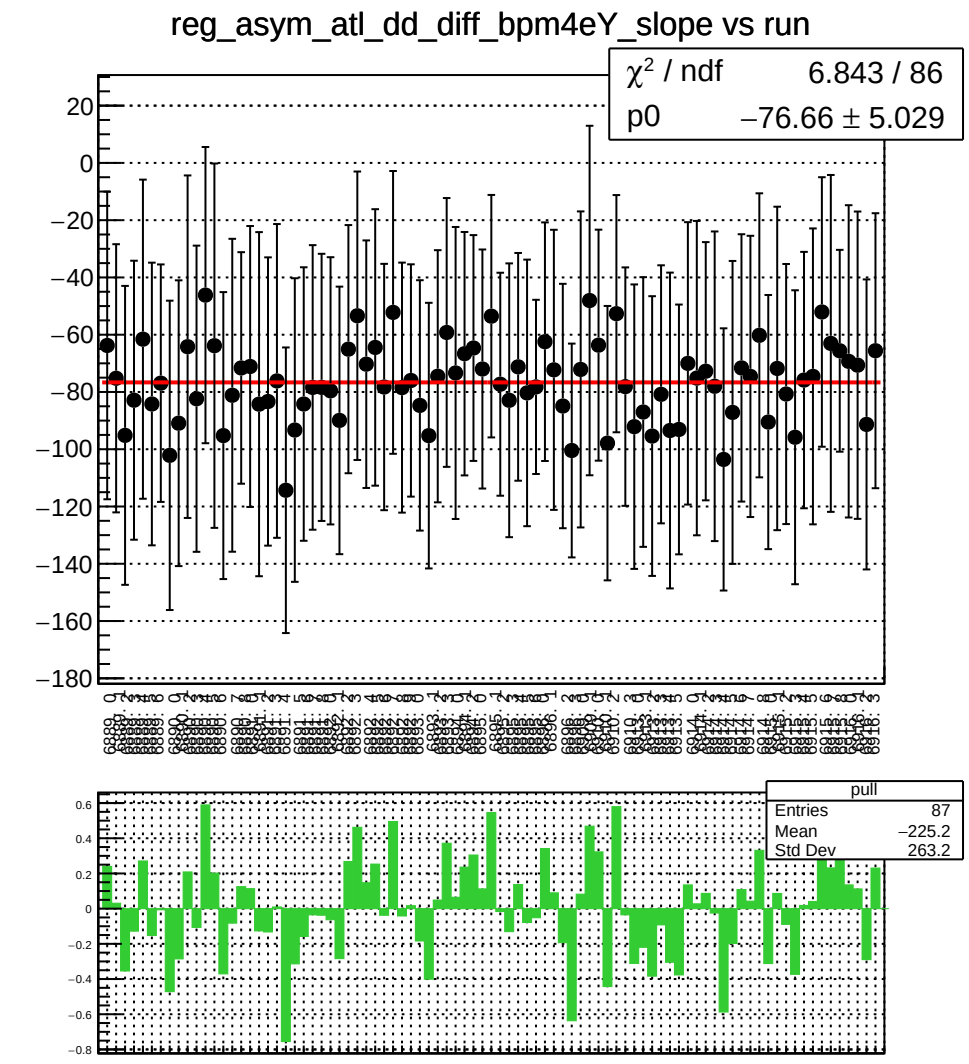

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ^2 / ndf 41.5 / 86
p0 226.1 ± 5.654
pull
Entries 87
Mean 176.1
Std Dev 124

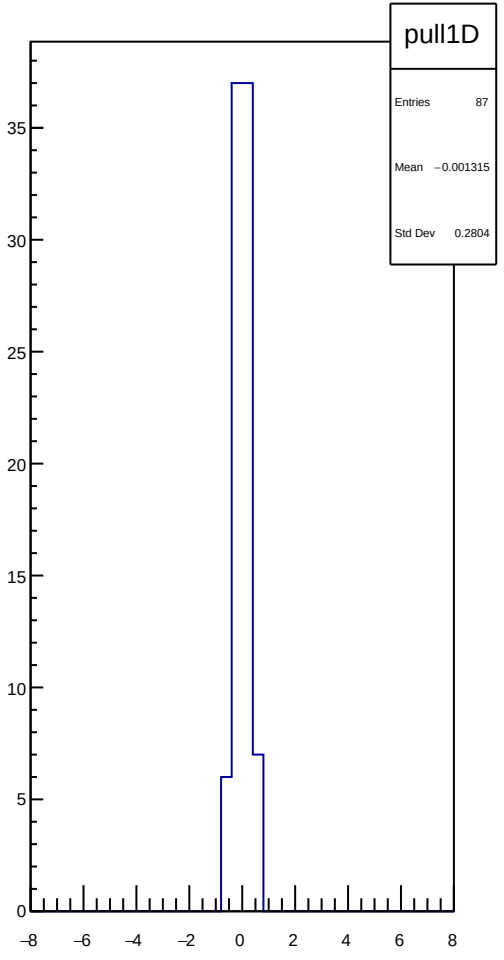

pull1D
Entries 87
Mean 0.08513
Std Dev 0.6854

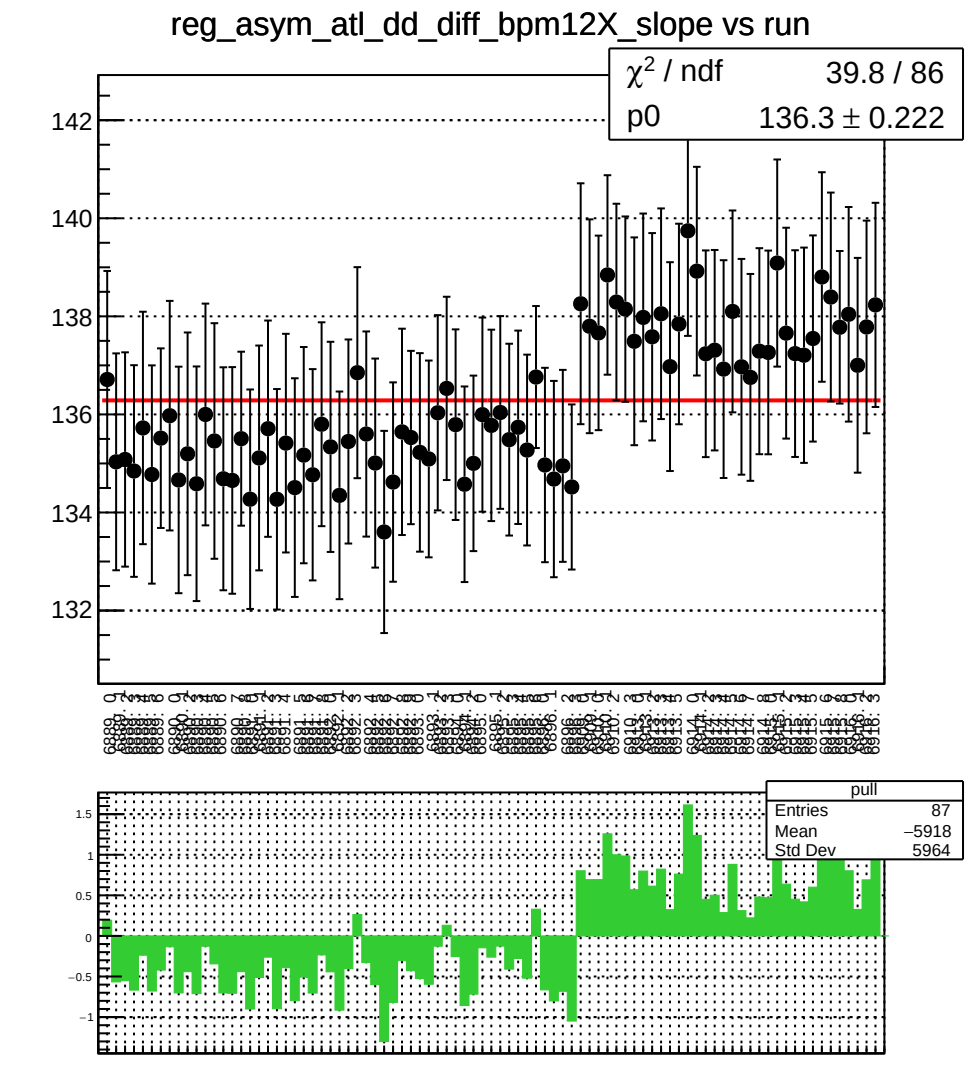

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.577 / 86
p0 2.33 ± 4.257
pull
Entries 87
Mean 717.8
Std Dev 672.4

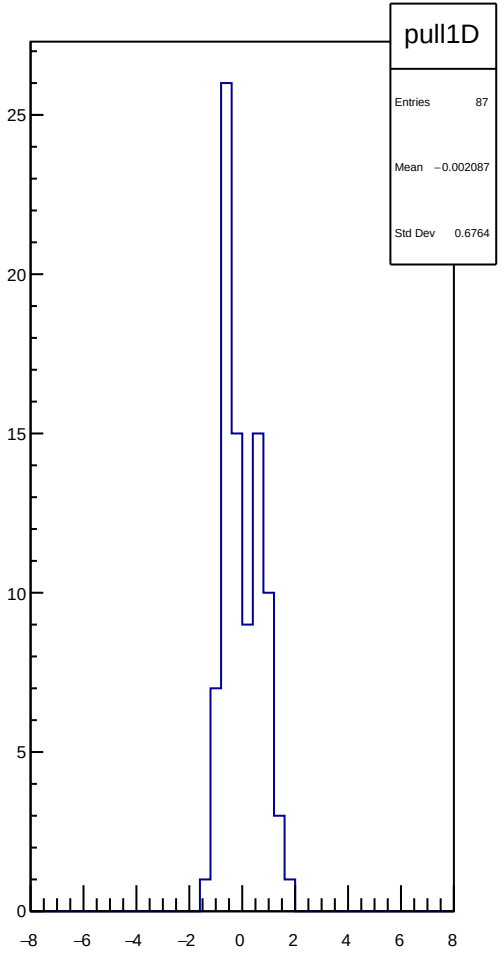

pull1D
Entries 87
Mean −0.002207
Std Dev 0.2951

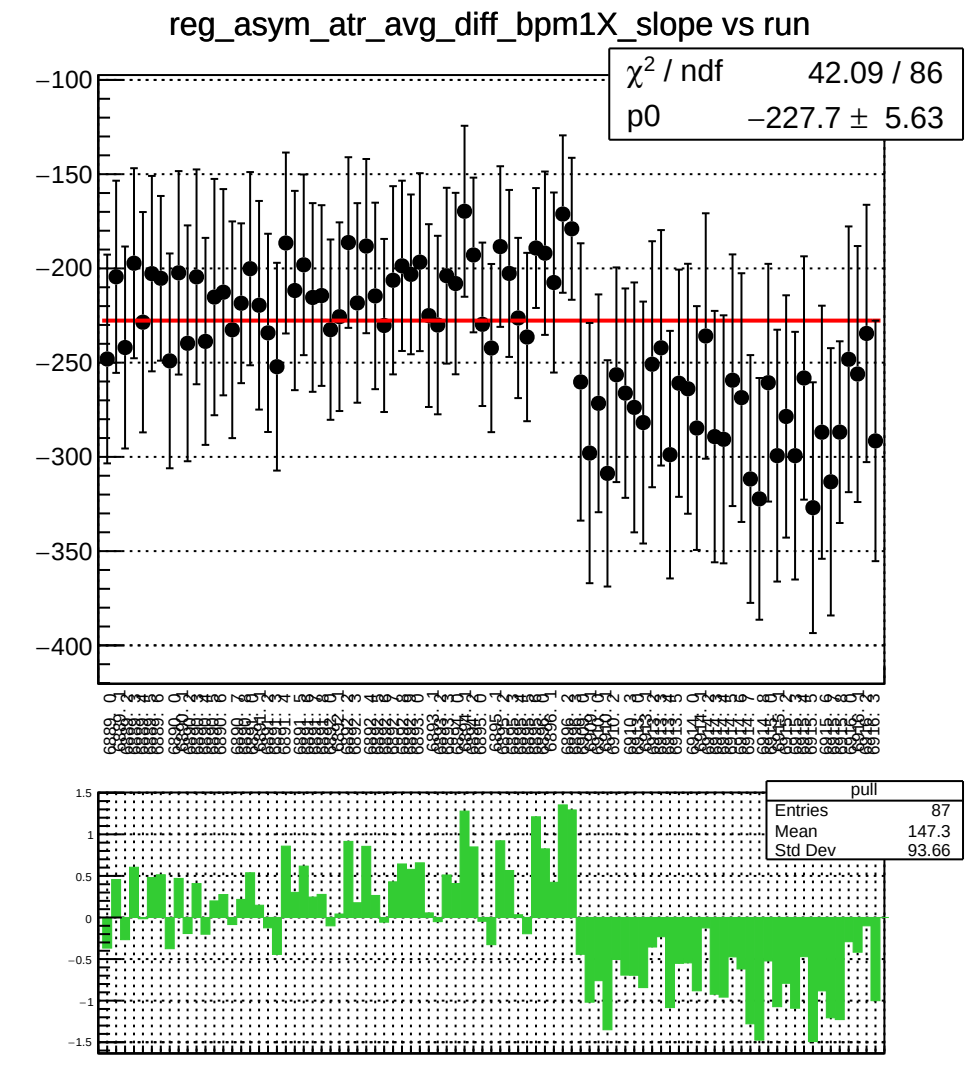

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.79 / 86
p0 −164.7 ± 5.414
pull
Entries 87
Mean 190.3
Std Dev 138.3
pull1D
Entries 87
Mean −0.06789
Std Dev 0.6287

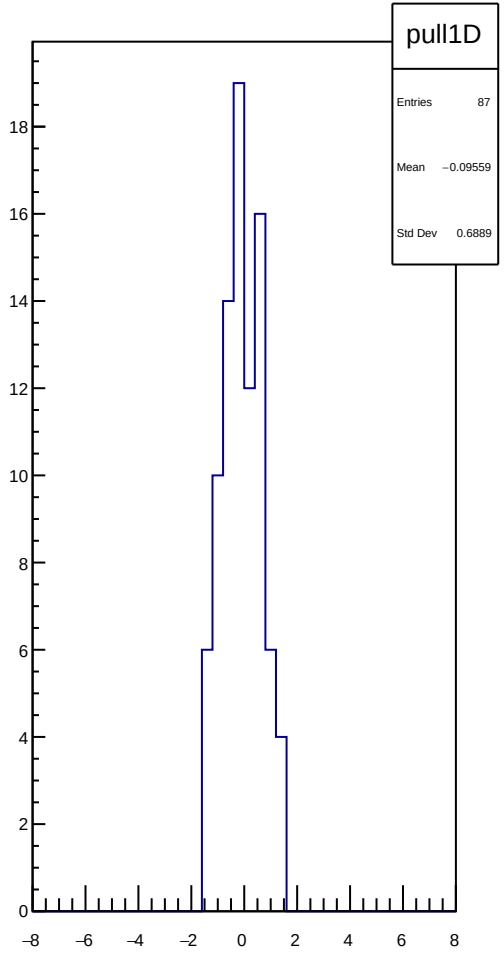

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.843 / 86
p0 −76.66 ± 5.029
pull
Entries 87
Mean −225.2
Std Dev 263.2

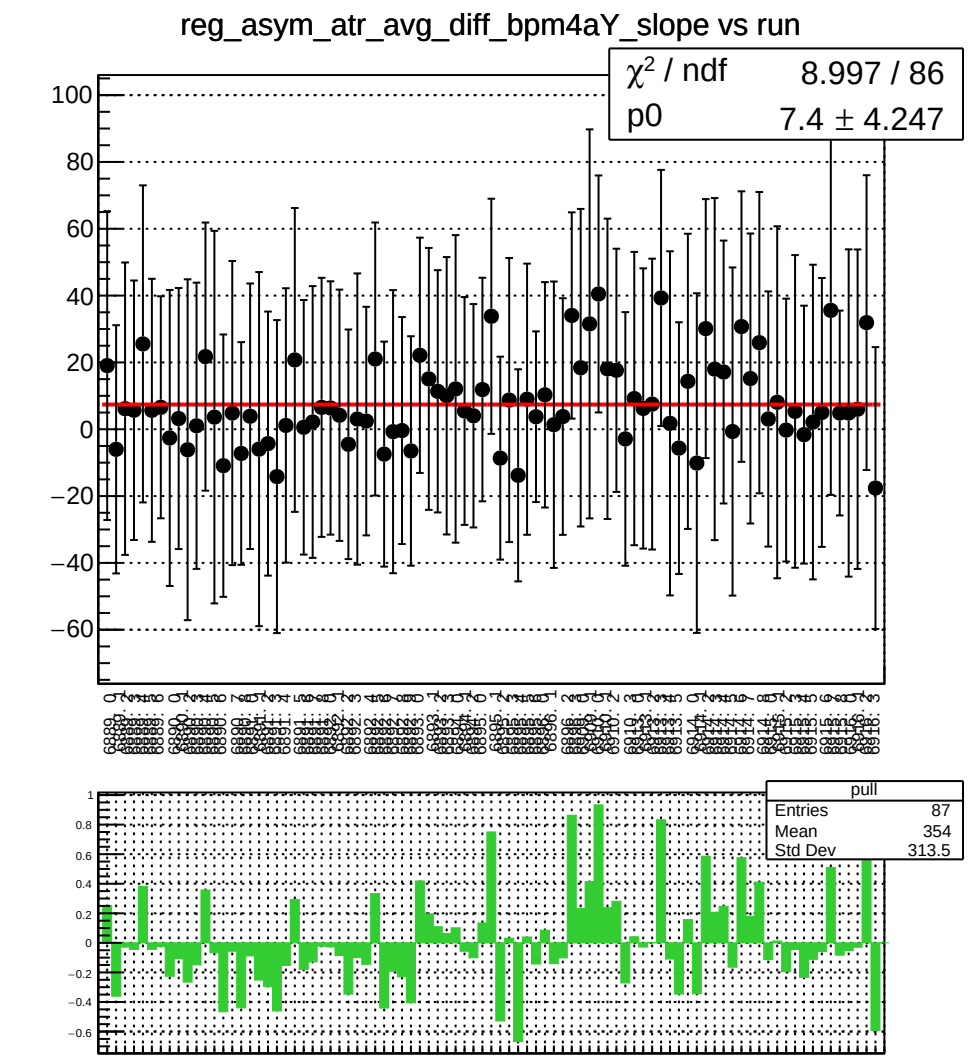

pull1D
Entries 87
Mean −0.001315
Std Dev 0.2804

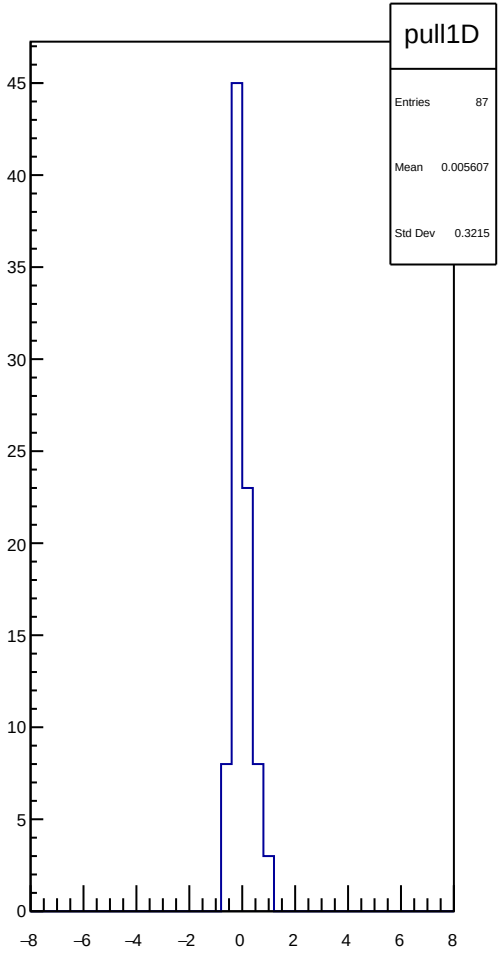

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 39.8 / 86
p0 136.3 ± 0.222
142
140
138
136
134
132
pull
Entries 87
Mean −5918
Std Dev 5964
1.5
1
0.5
0
−0.5
−1

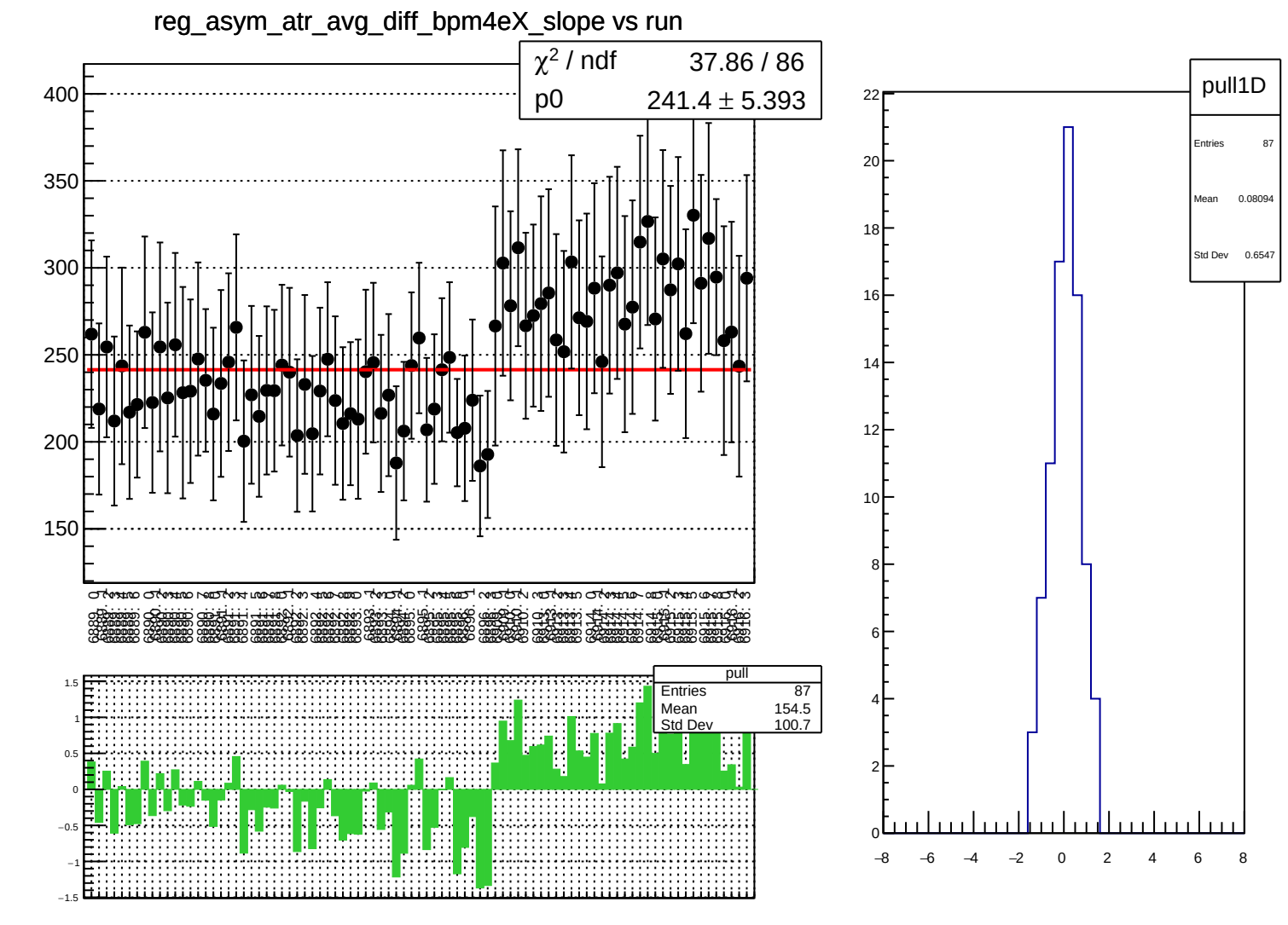

pull1D
Entries 87
Mean −0.002087
Std Dev 0.6764
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

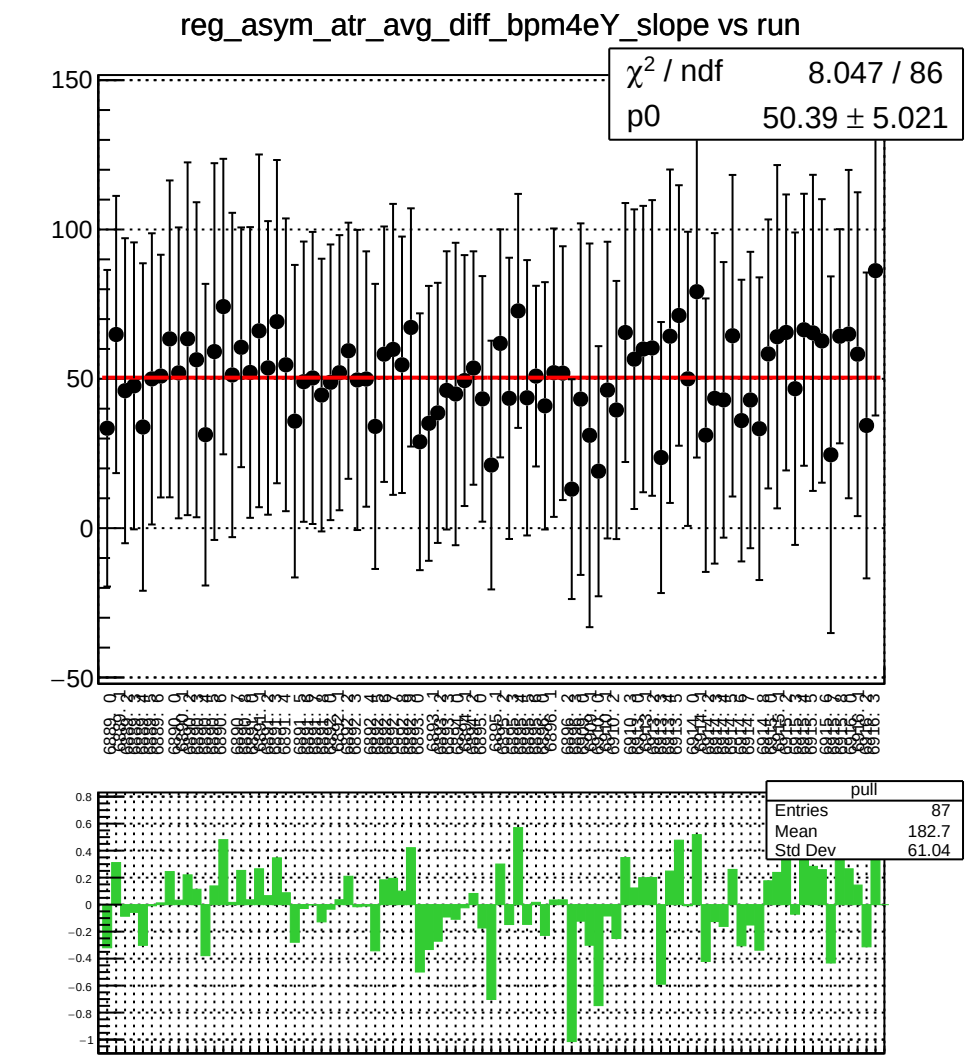

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 42.09 / 86
p0 −227.7 ± 5.63
−100
−150
−200
−250
−300
−350
−400
pull
Entries 87
Mean 147.3
Std Dev 93.66
1.5
1
0.5
0
−0.5
−1
−1.5

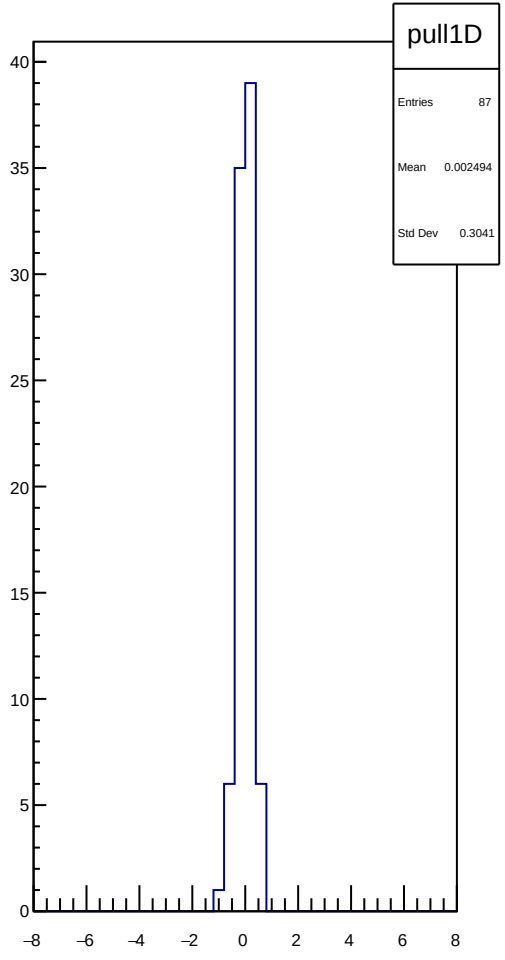

pull1D
Entries 87
Mean −0.09559
Std Dev 0.6889
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

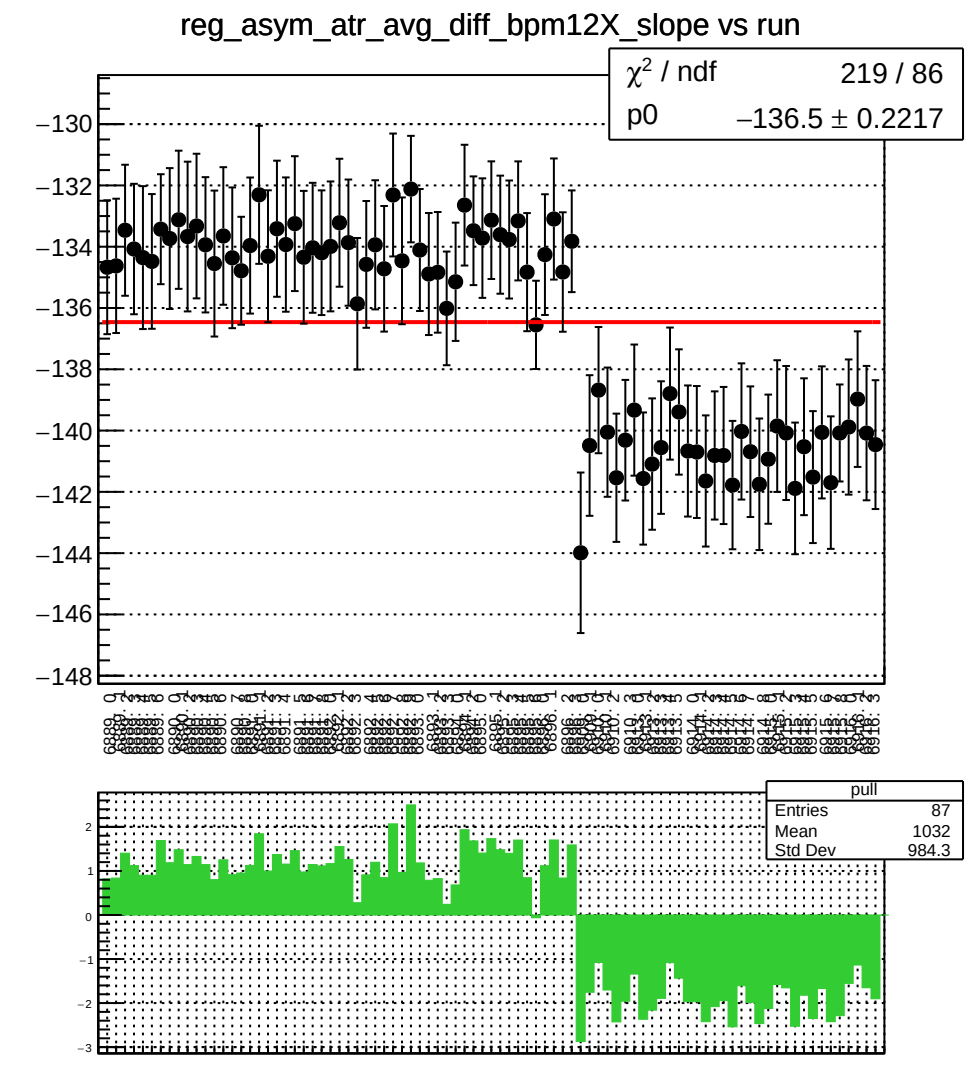

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.997 / 86
p0 7.4 ± 4.247
pull
Entries 87
Mean 354
Std Dev 313.5

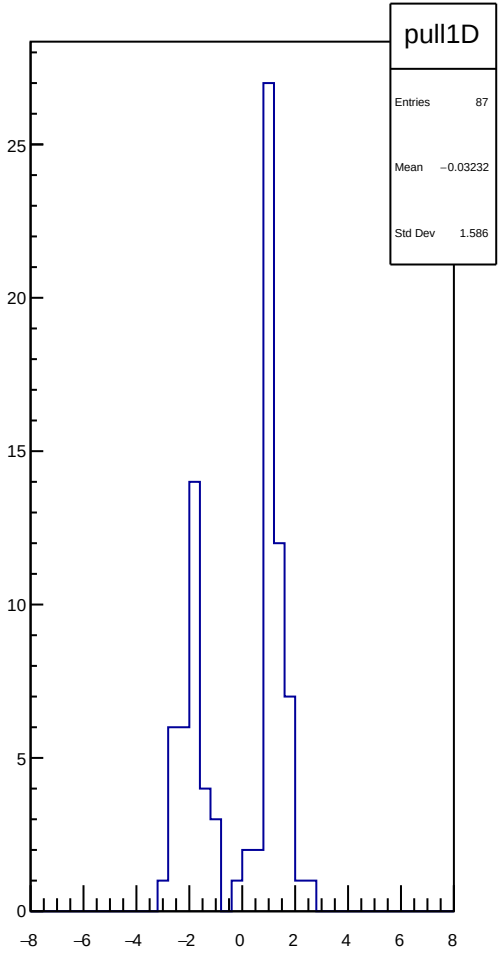

pull1D
Entries 87
Mean 0.005607
Std Dev 0.3215

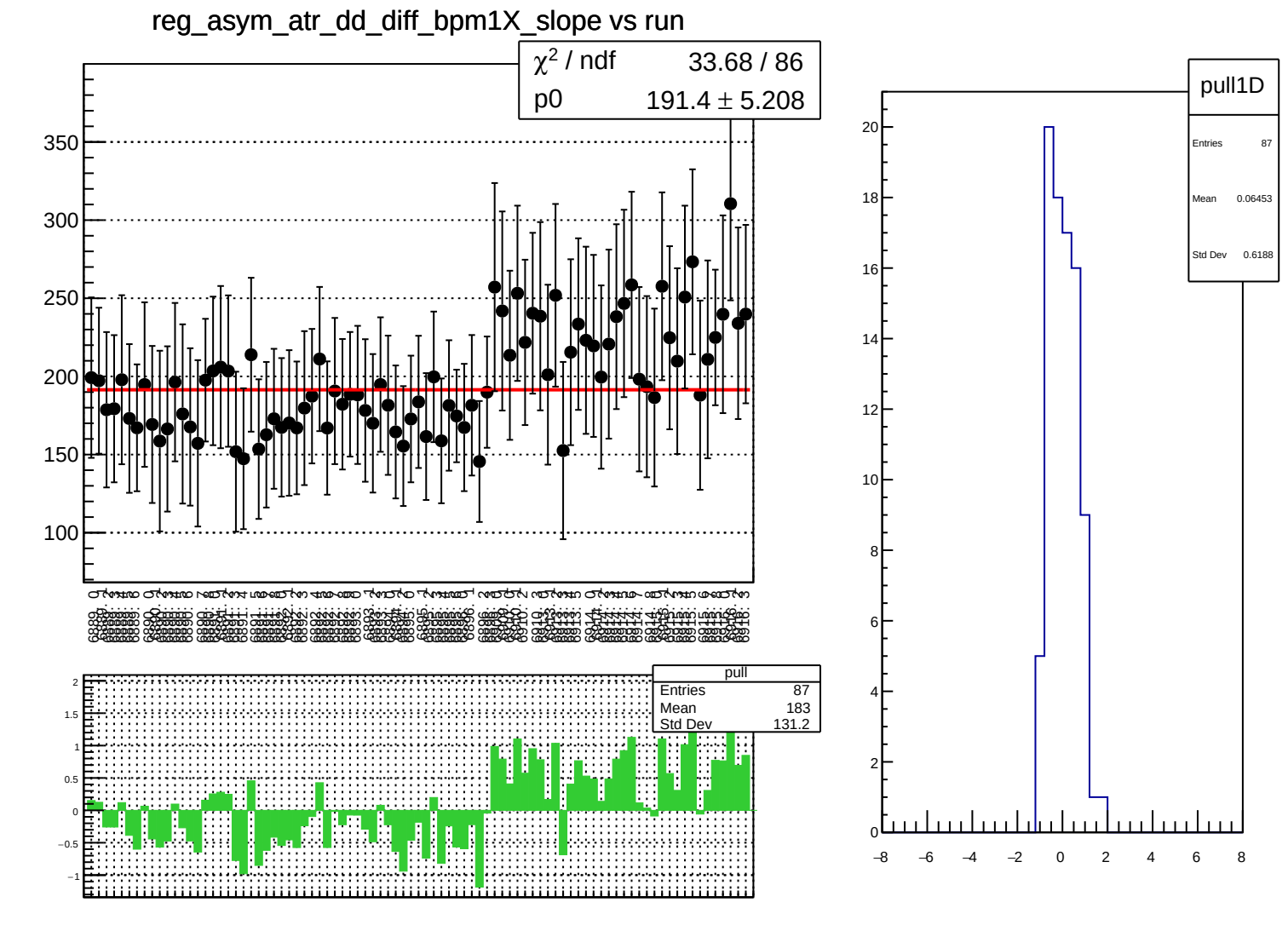

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.86 / 86
p0 241.4 ± 5.393
400
350
300
250
200
150
pull
Entries 87
Mean 154.5
Std Dev 100.7
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean 0.08094
Std Dev 0.6547
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

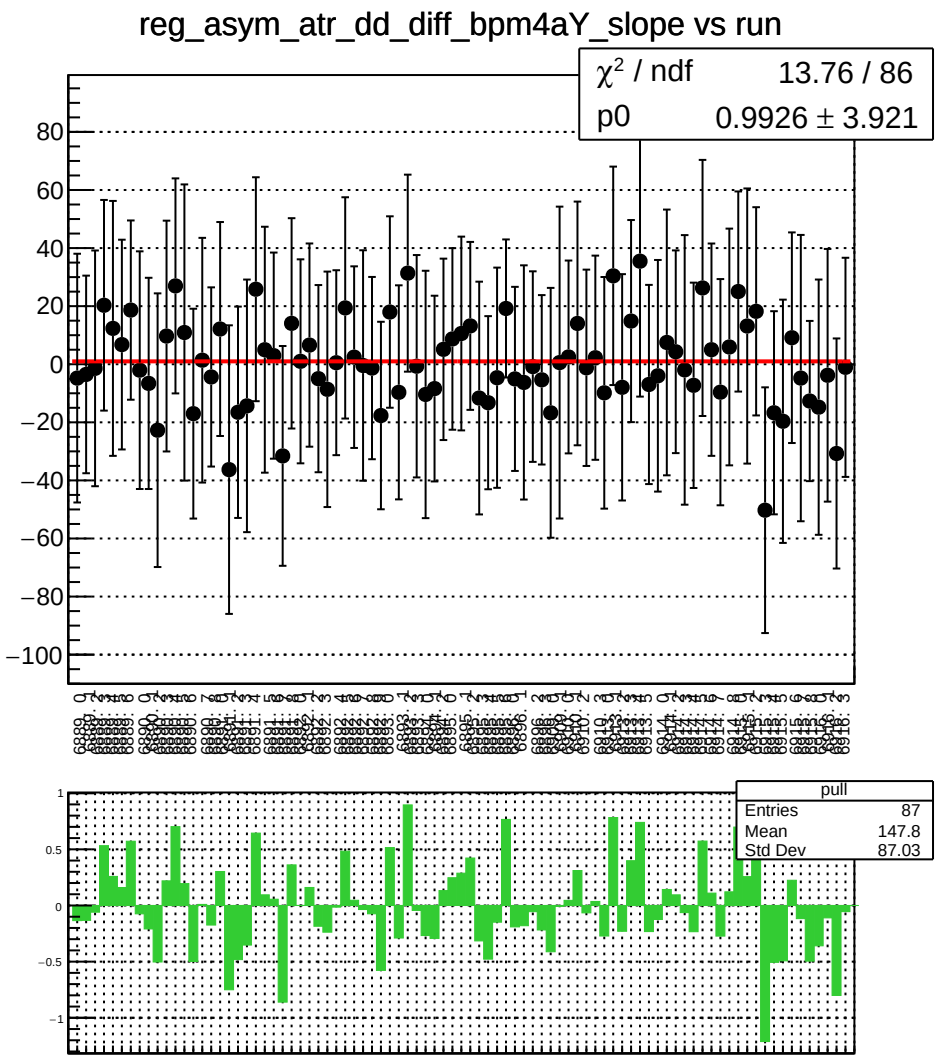

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.047 / 86
p0 50.39 ± 5.021
150
100
50
0
−50
pull
Entries 87
Mean 182.7
Std Dev 61.04
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

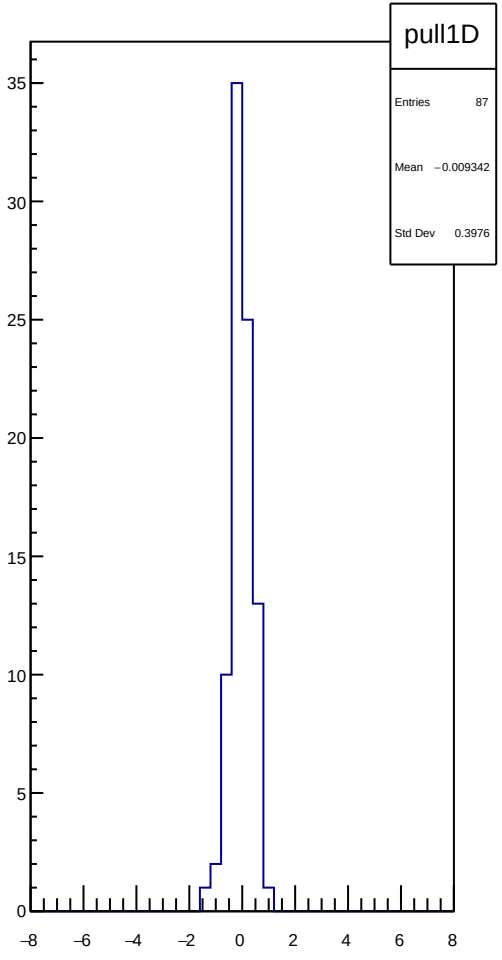

pull1D
Entries 87
Mean 0.002494
Std Dev 0.3041
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

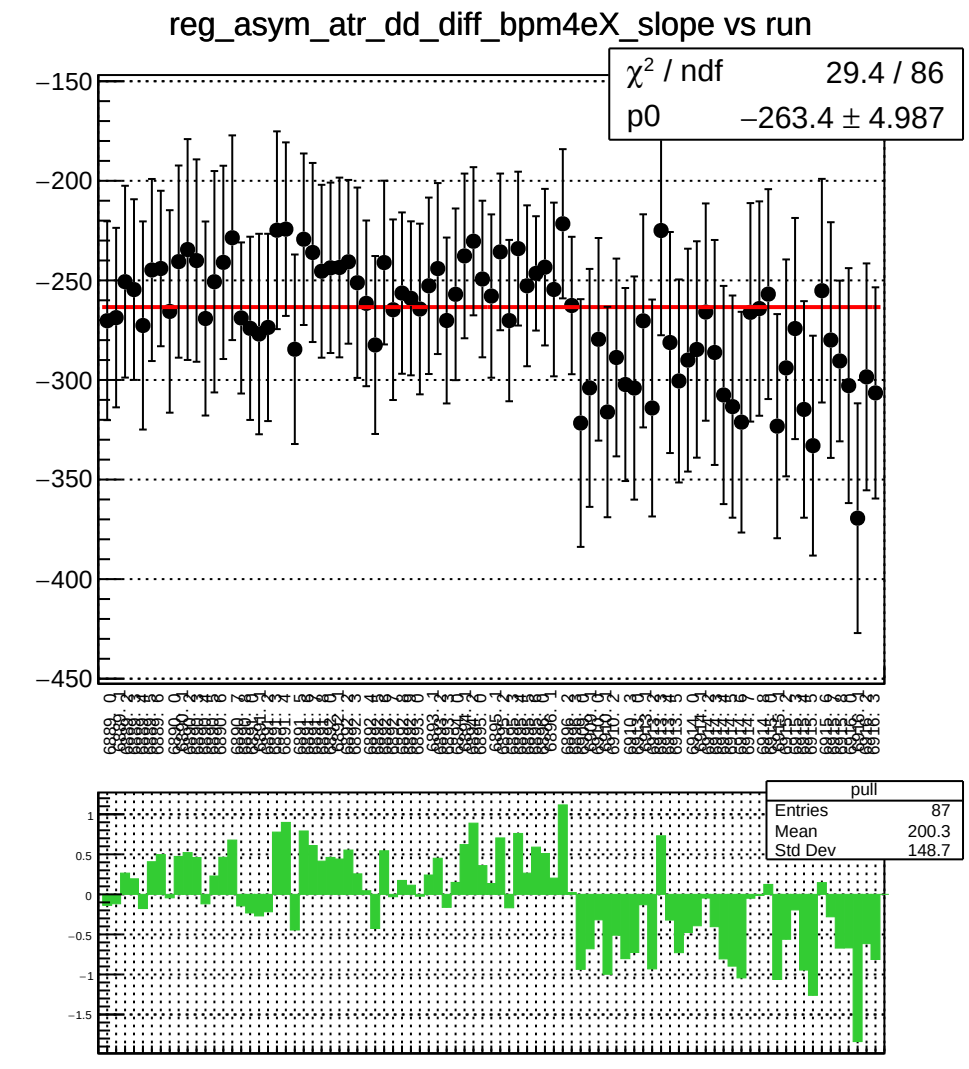

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 219 / 86
p0 −136.5 ± 0.2217
pull
Entries 87
Mean 1032
Std Dev 984.3

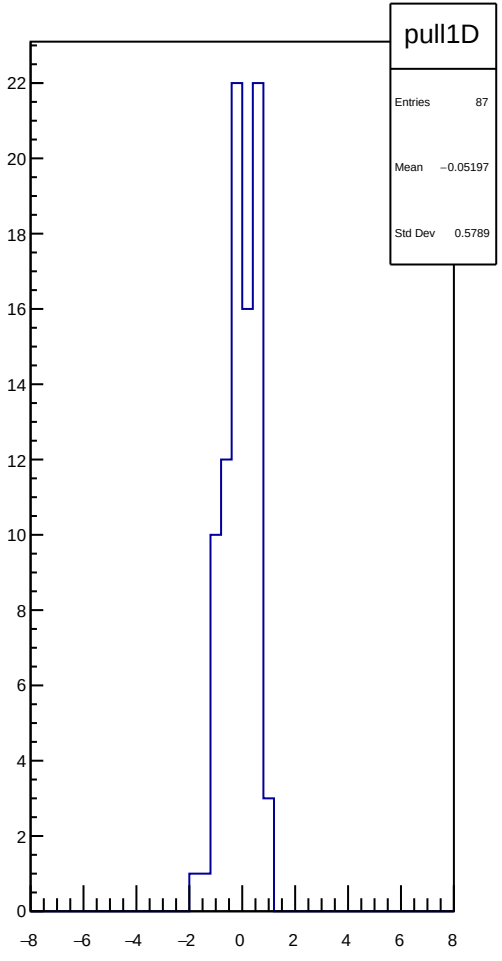

pull1D
Entries 87
Mean −0.03232
Std Dev 1.586

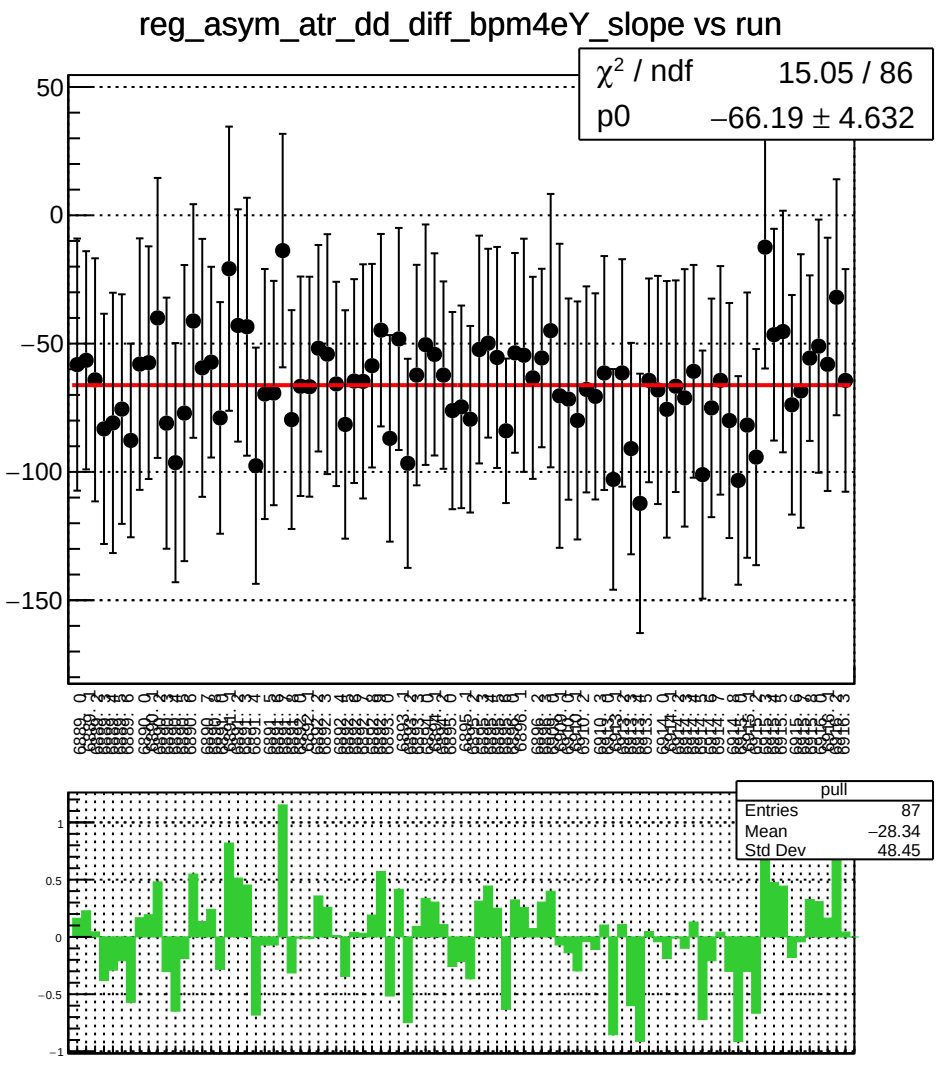

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 33.68 / 86
p0 191.4 ± 5.208
350
300
250
200
150
100
pull
Entries 87
Mean 183
Std Dev 131.2
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.06453
Std Dev 0.6188
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

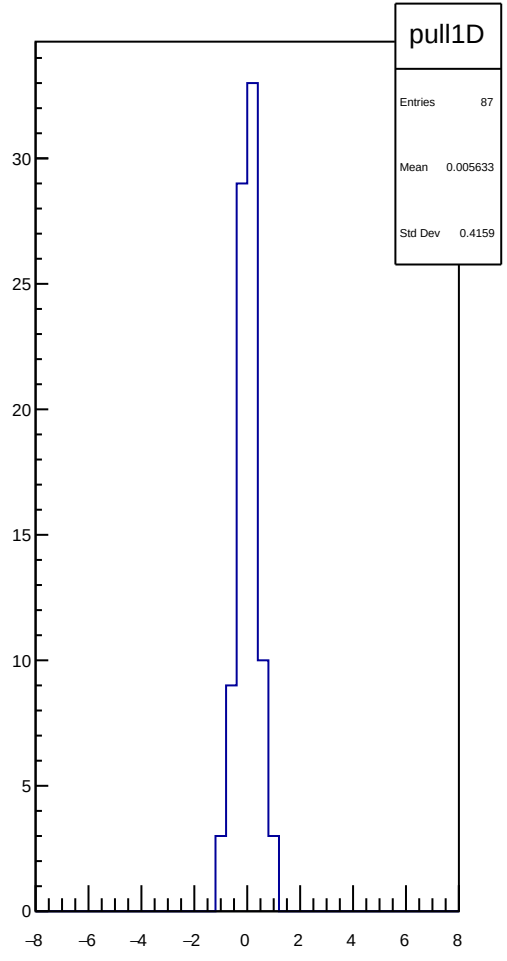

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.76 / 86
p0 0.9926 ± 3.921
pull
Entries 87
Mean 147.8
Std Dev 87.03

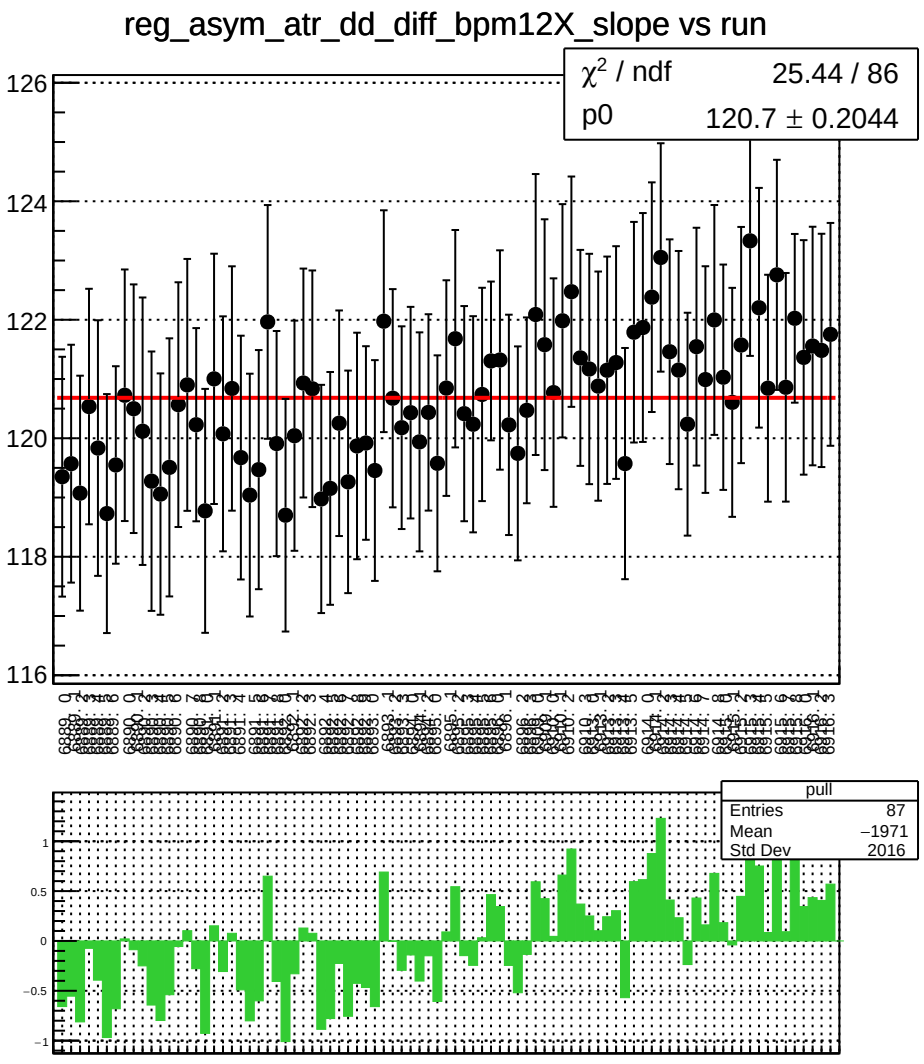

pull1D
Entries 87
Mean −0.009342
Std Dev 0.3976

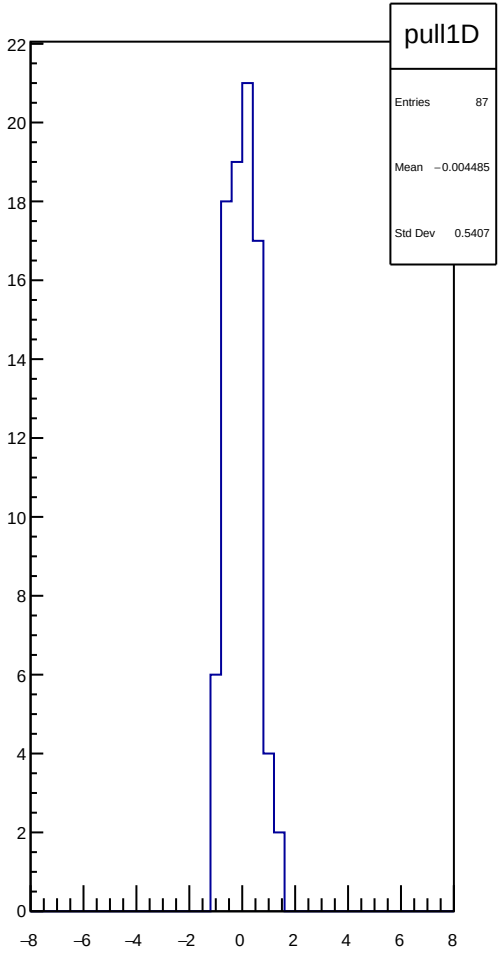

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.4 / 86
p0 −263.4 ± 4.987
pull
Entries 87
Mean 200.3
Std Dev 148.7

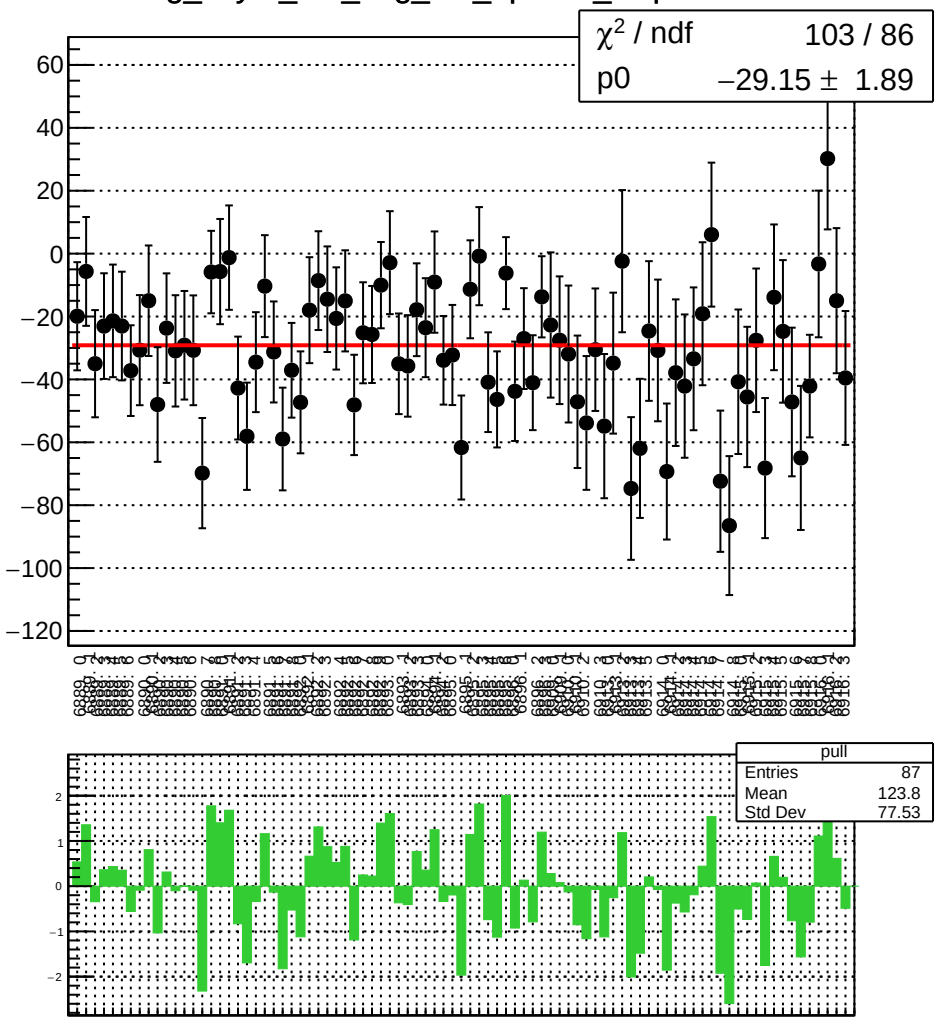

pull1D
Entries 87
Mean −0.05197
Std Dev 0.5789

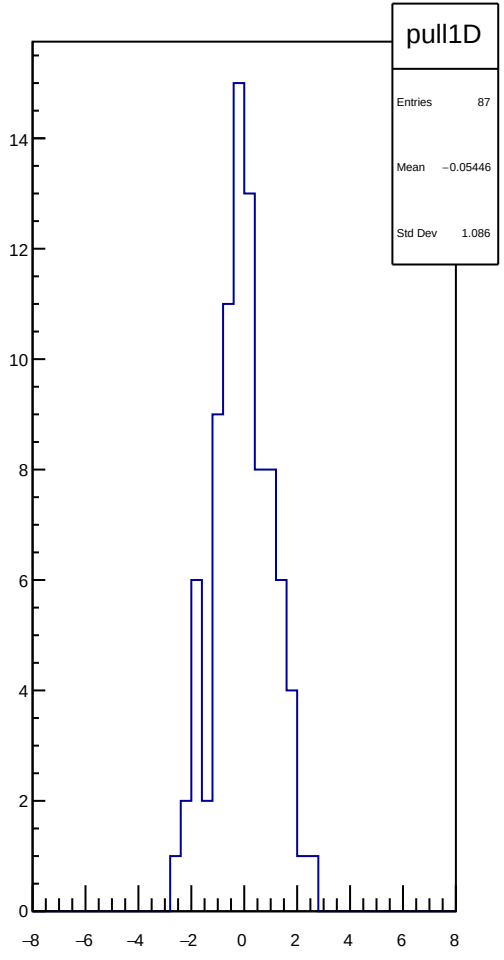

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.05 / 86
p0 −66.19 ± 4.632
50
0
−50
−100
−150
pull
Entries 87
Mean −28.34
Std Dev 48.45
1
0.5
0
−0.5
−1

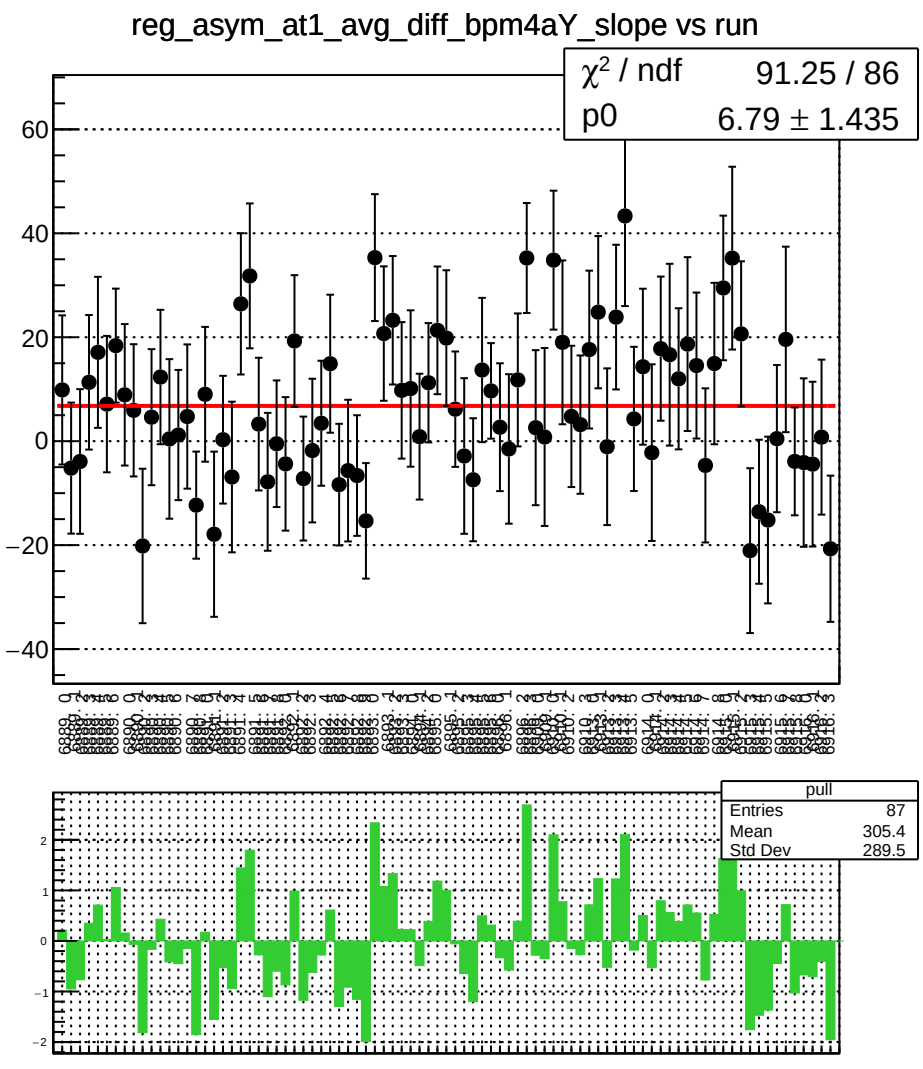

pull1D
Entries 87
Mean 0.005633
Std Dev 0.4159
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

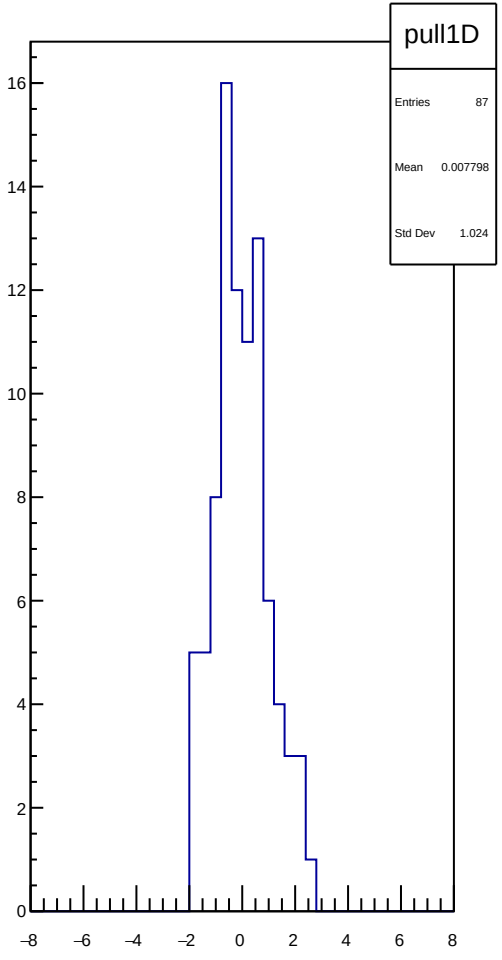

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 25.44 / 86
p0 120.7 ± 0.2044
126
124
122
120
118
116
pull
Entries 87
Mean −1971
Std Dev 2016
1
0.5
0
−0.5
−1

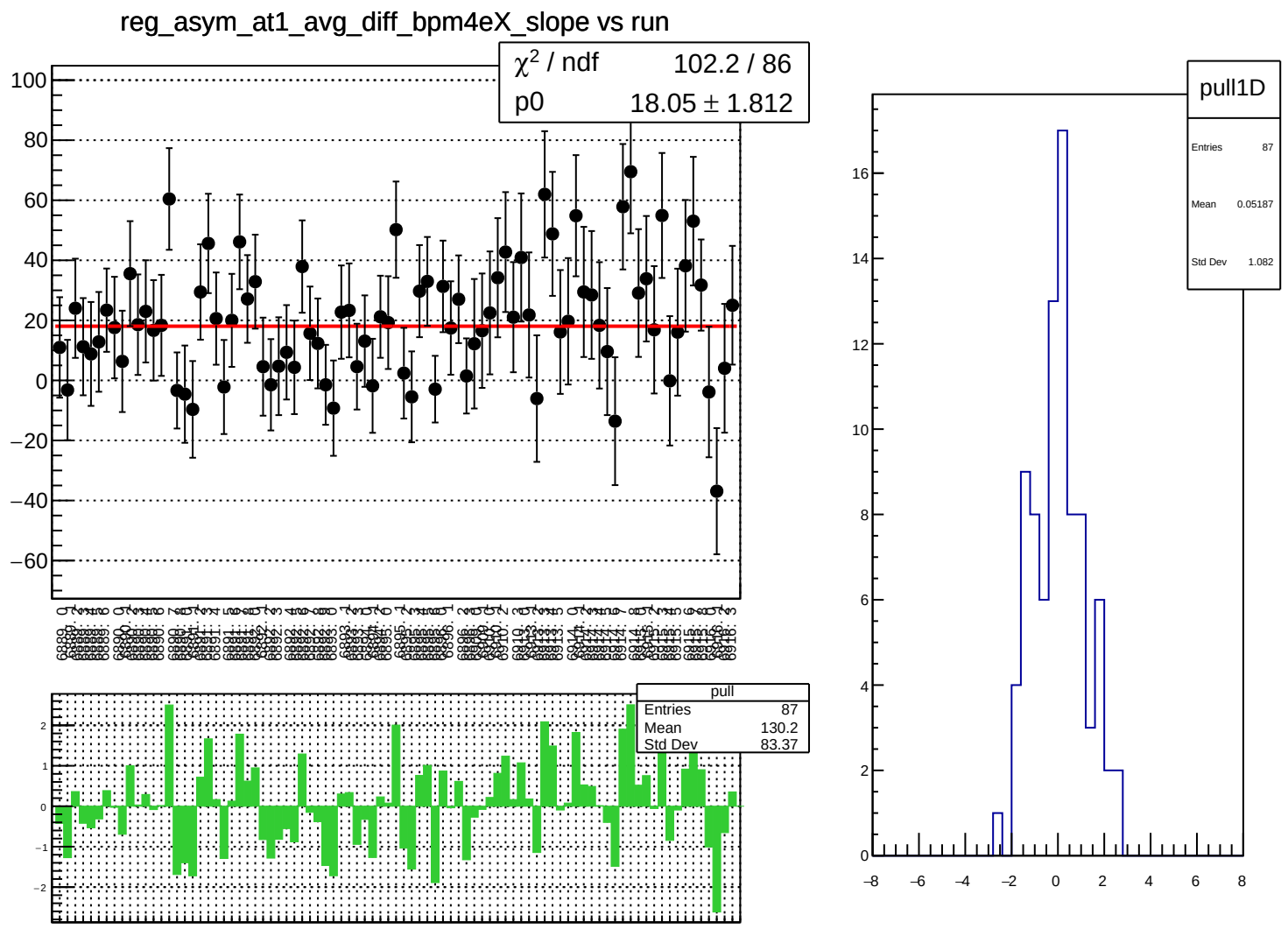

pull1D
Entries 87
Mean −0.004485
Std Dev 0.5407
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

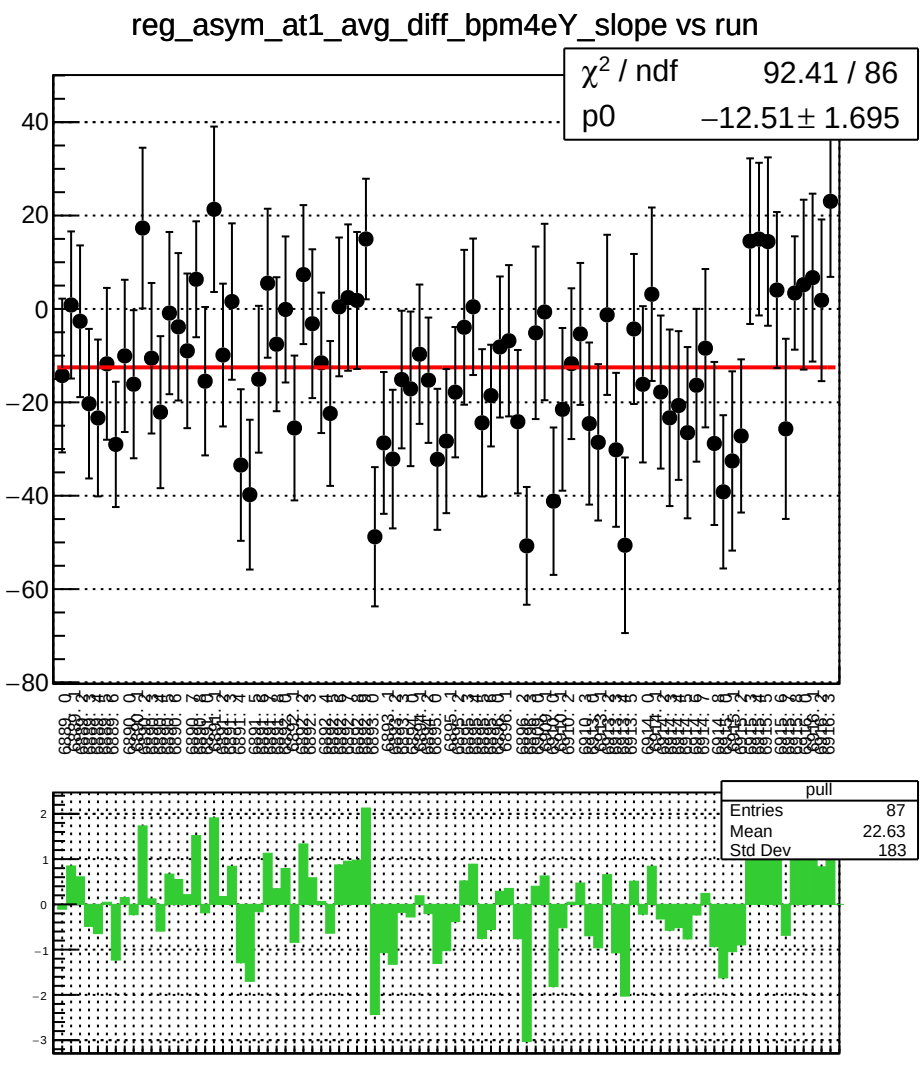

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 103 / 86
p0 −29.15 ± 1.89
pull
Entries 87
Mean 123.8
Std Dev 77.53

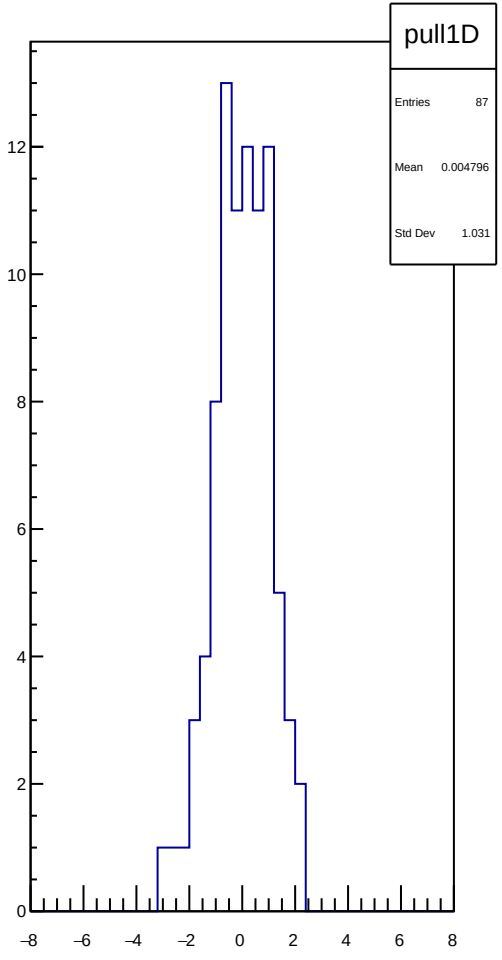

pull1D
Entries 87
Mean −0.05446
Std Dev 1.086

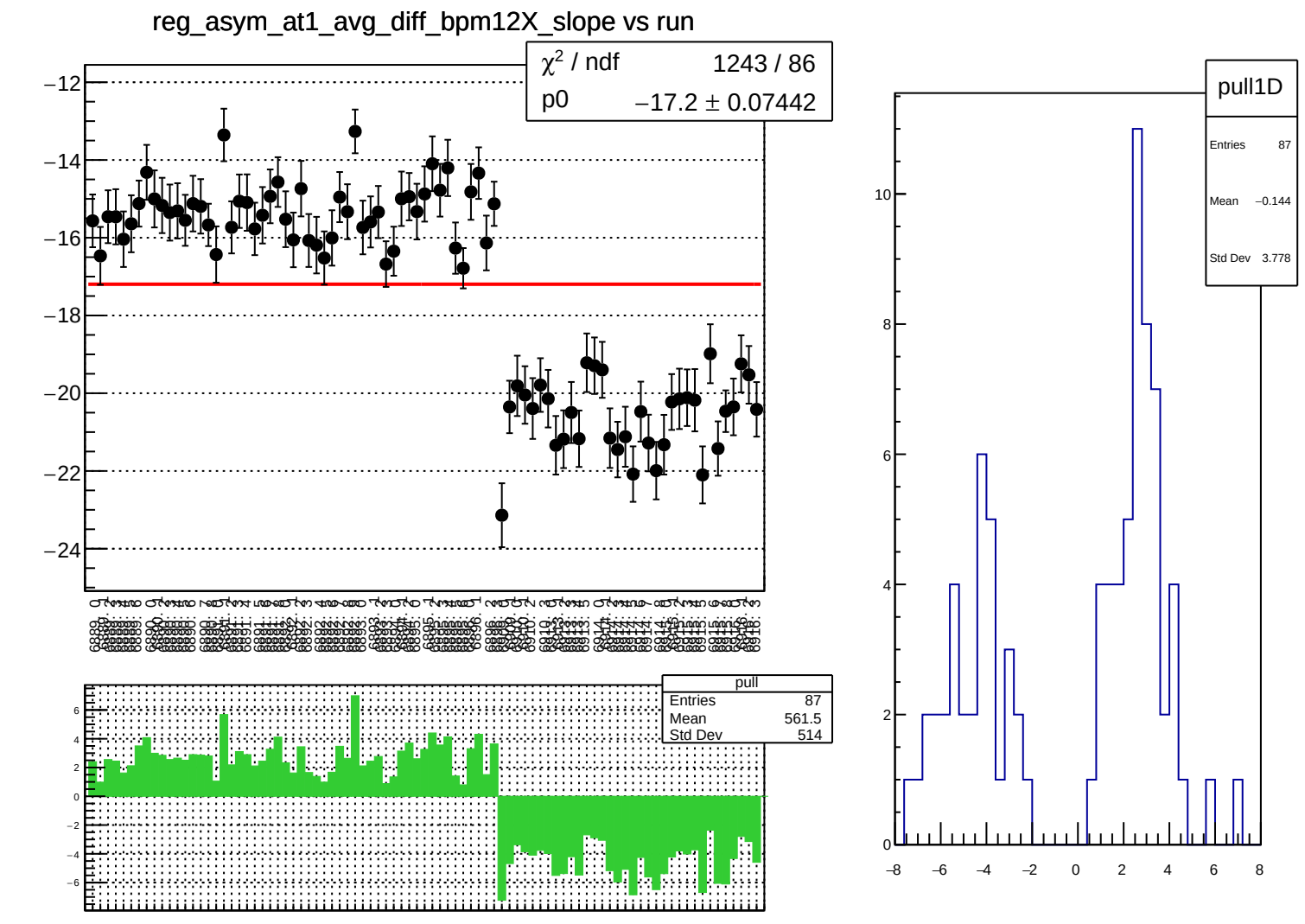

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 91.25 / 86
p0 6.79 ± 1.435
pull
Entries 87
Mean 305.4
Std Dev 289.5

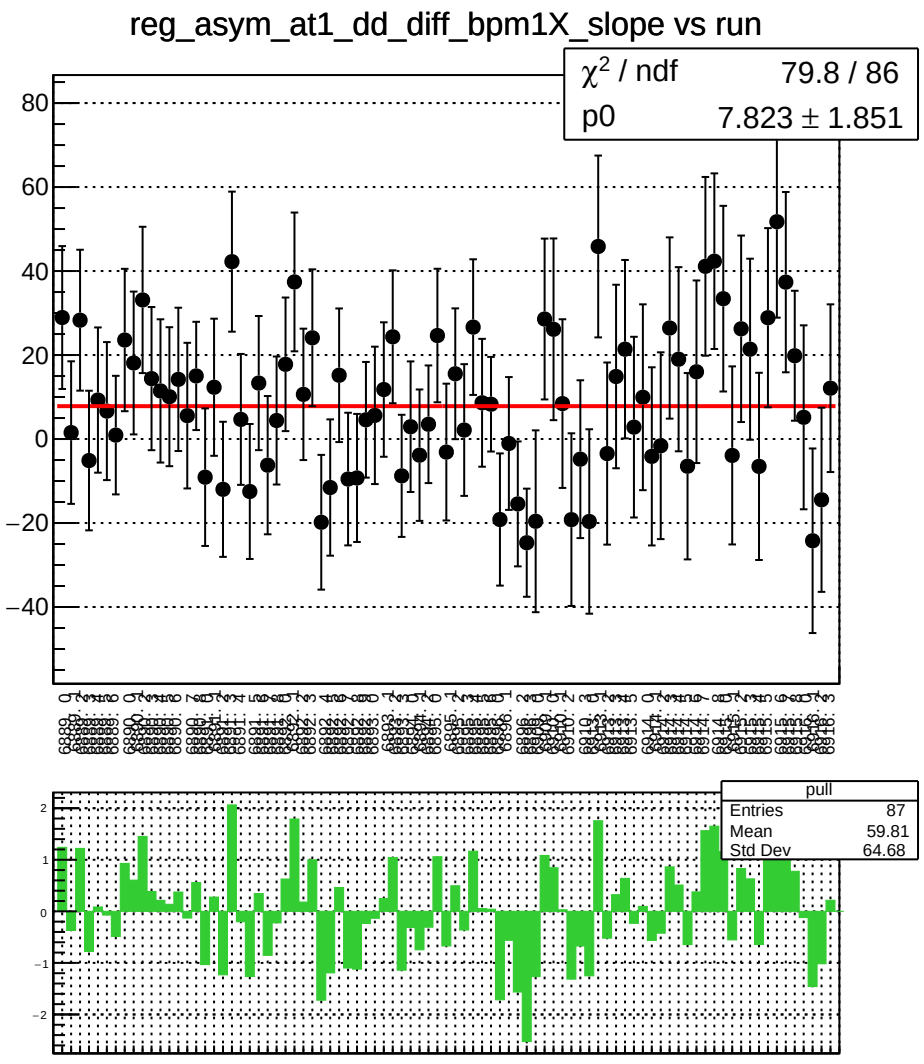

pull1D
Entries 87
Mean 0.007798
Std Dev 1.024

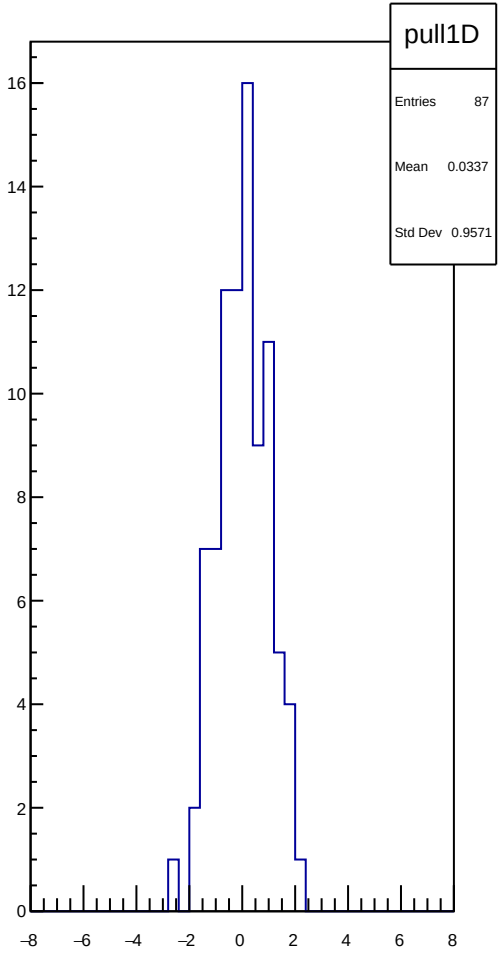

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 102.2 / 86
p0 18.05 ± 1.812
pull
Entries 87
Mean 130.2
Std Dev 83.37
pull1D
Entries 87
Mean 0.05187
Std Dev 1.082

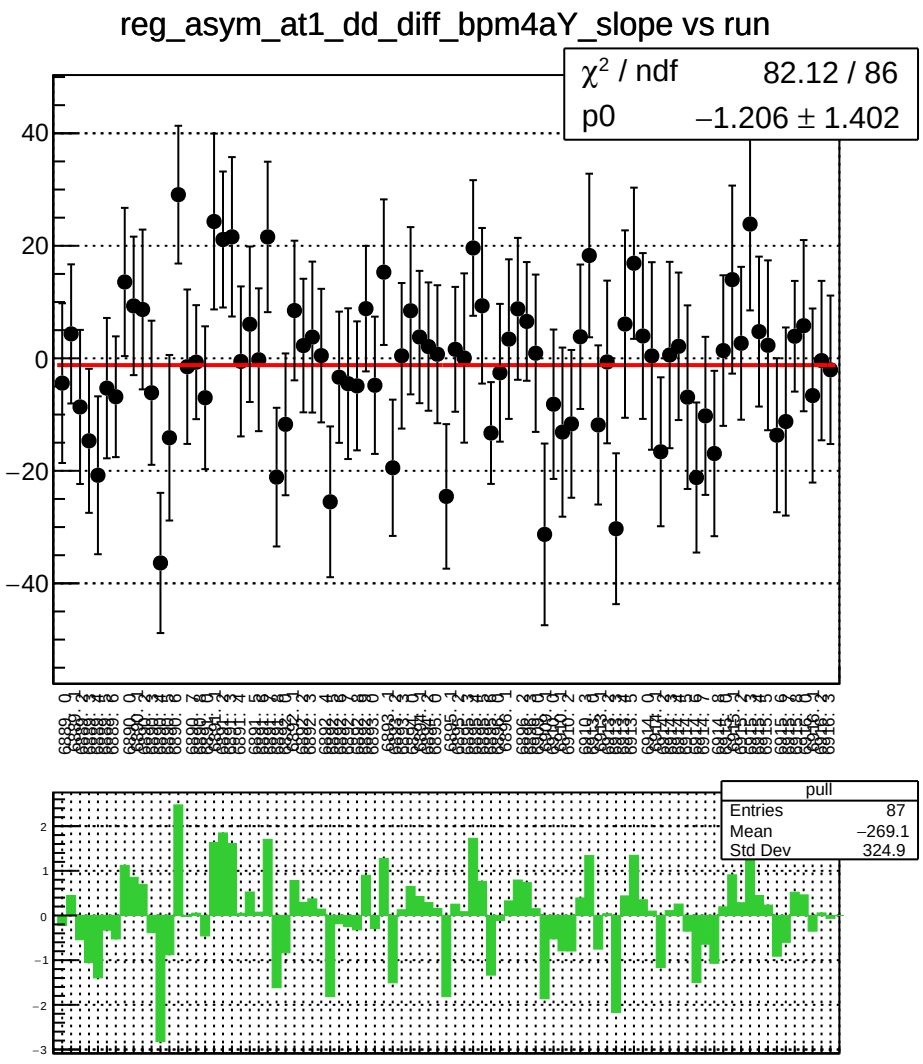

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 92.41 / 86
p0 −12.51± 1.695
pull
Entries 87
Mean 22.63
Std Dev 183

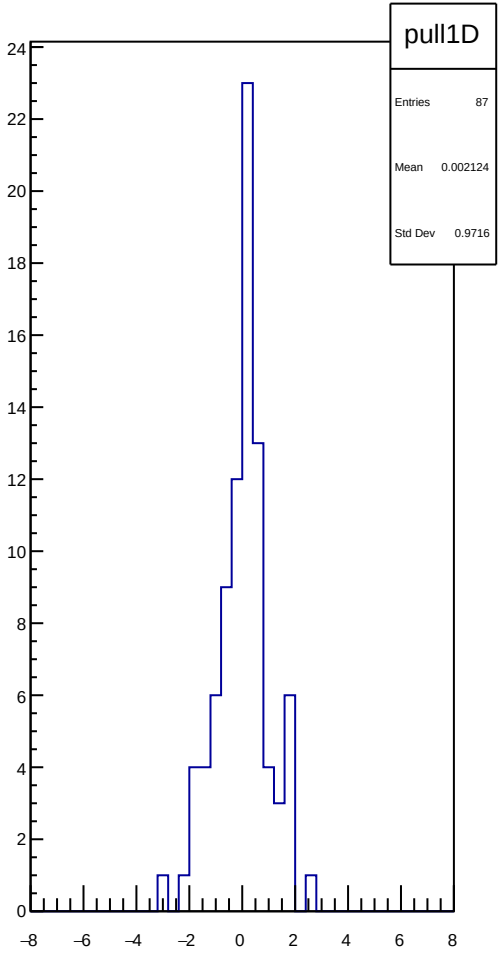

pull1D
Entries 87
Mean 0.004796
Std Dev 1.031

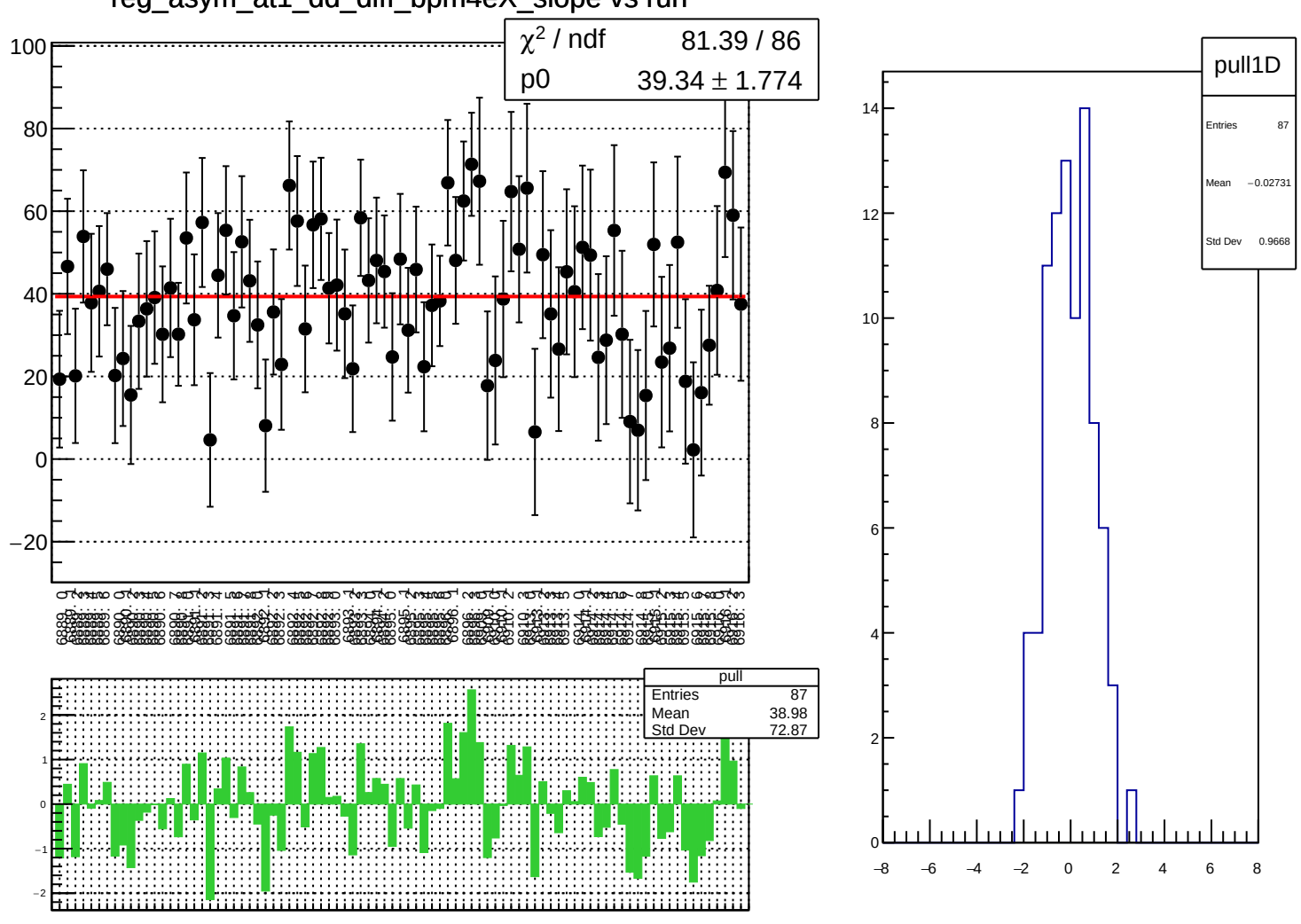

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 1243 / 86
p0 −17.2 ± 0.07442
pull
Entries 87
Mean 561.5
Std Dev 514
pull1D
Entries 87
Mean −0.144
Std Dev 3.778

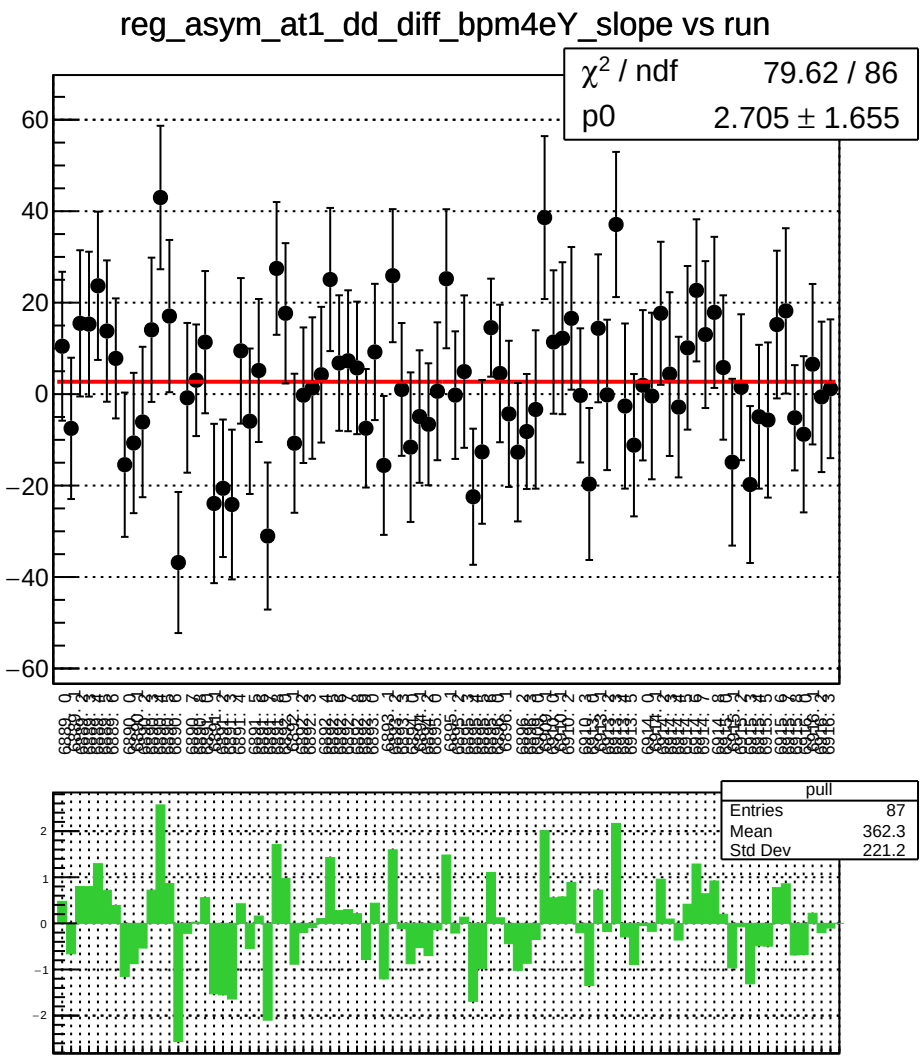

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 79.8 / 86
p0 7.823 ± 1.851
pull
Entries 87
Mean 59.81
Std Dev 64.68

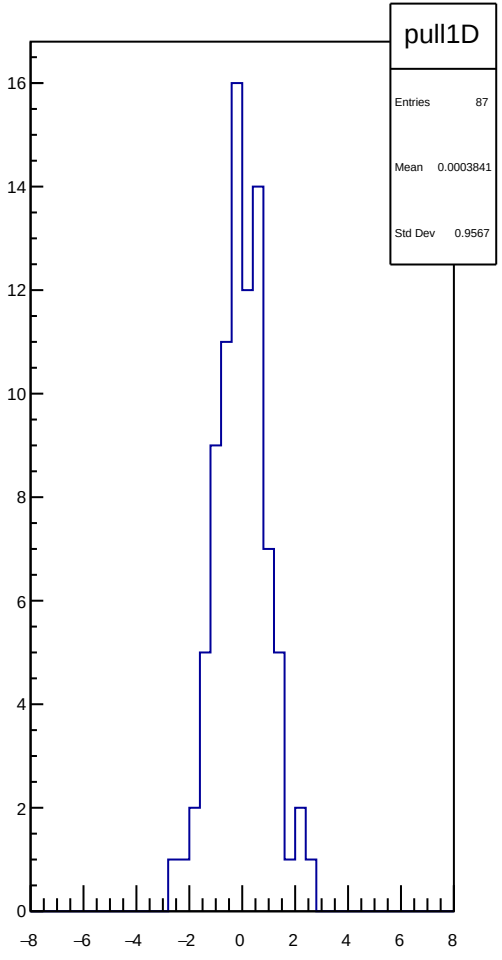

pull1D
Entries 87
Mean 0.0337
Std Dev 0.9571

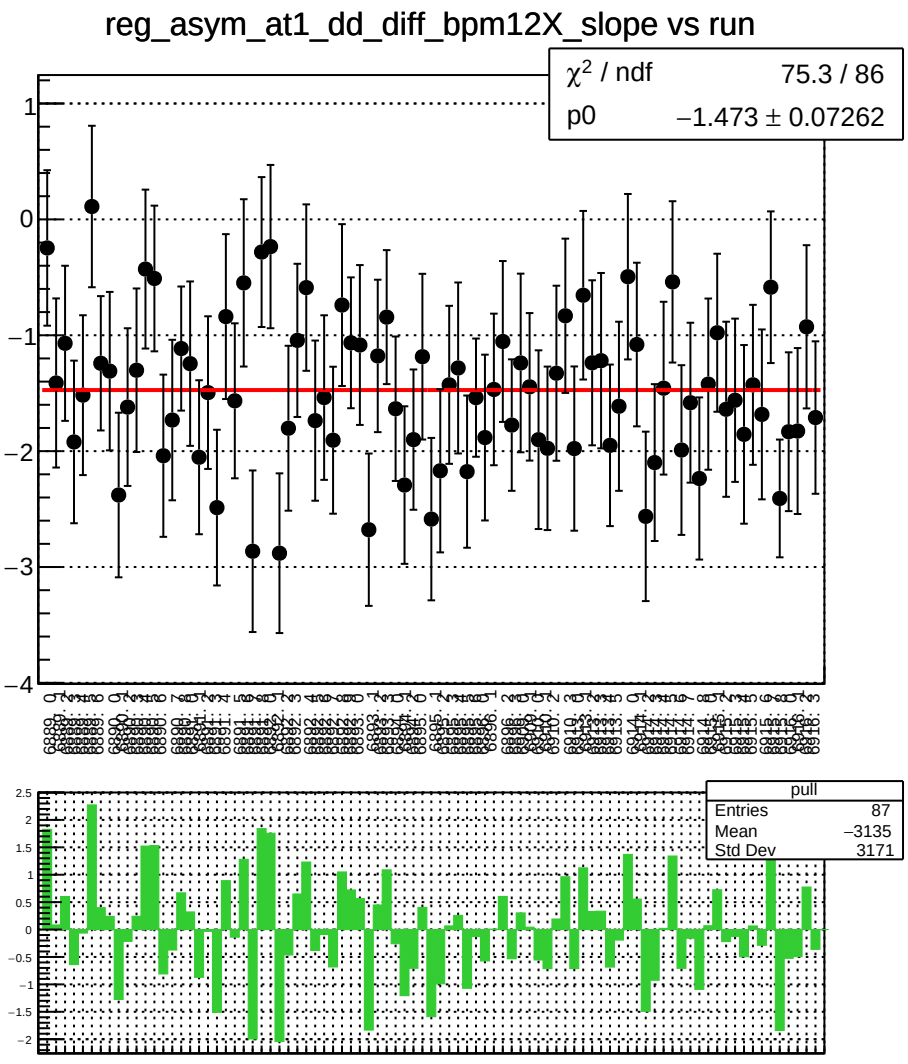

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.12 / 86
p0 −1.206 ± 1.402
pull
Entries 87
Mean −269.1
Std Dev 324.9

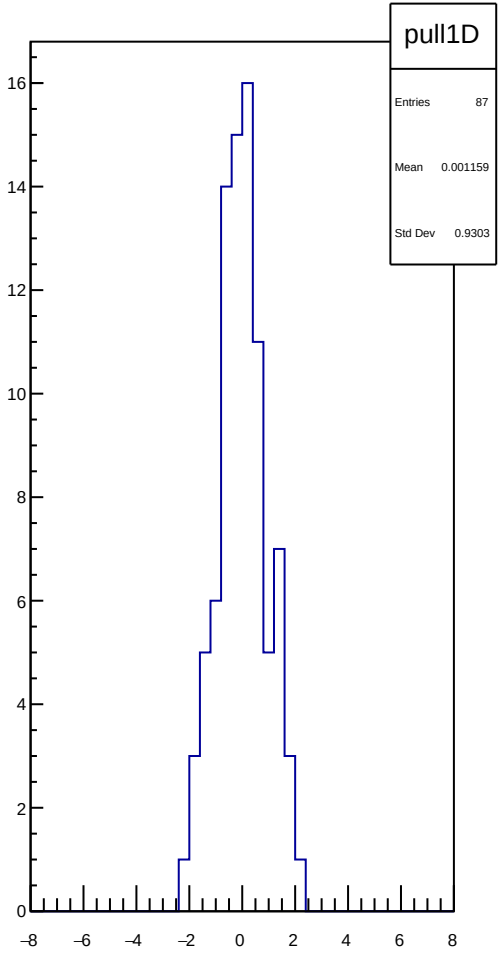

pull1D
Entries 87
Mean 0.002124
Std Dev 0.9716

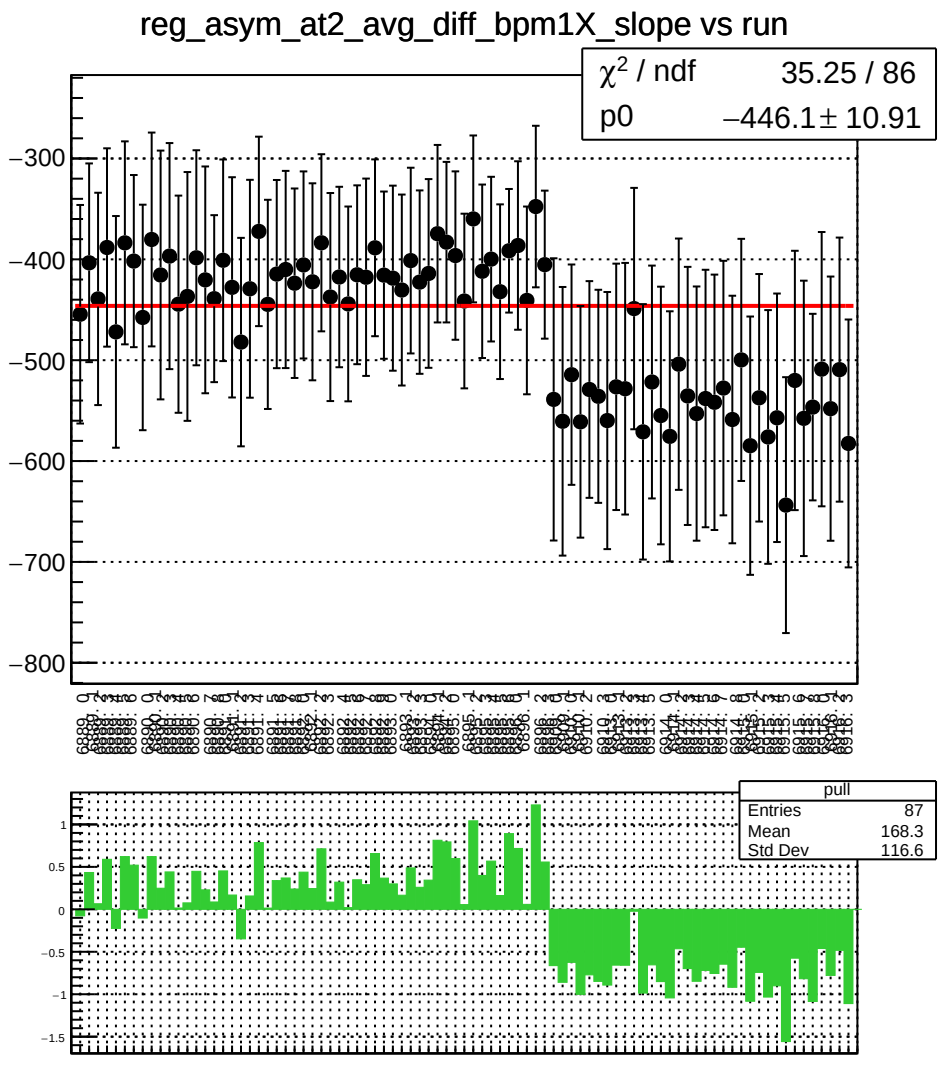

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.39 / 86
p0 39.34 ± 1.774
pull
Entries 87
Mean 38.98
Std Dev 72.87
pull1D
Entries 87
Mean −0.02731
Std Dev 0.9668

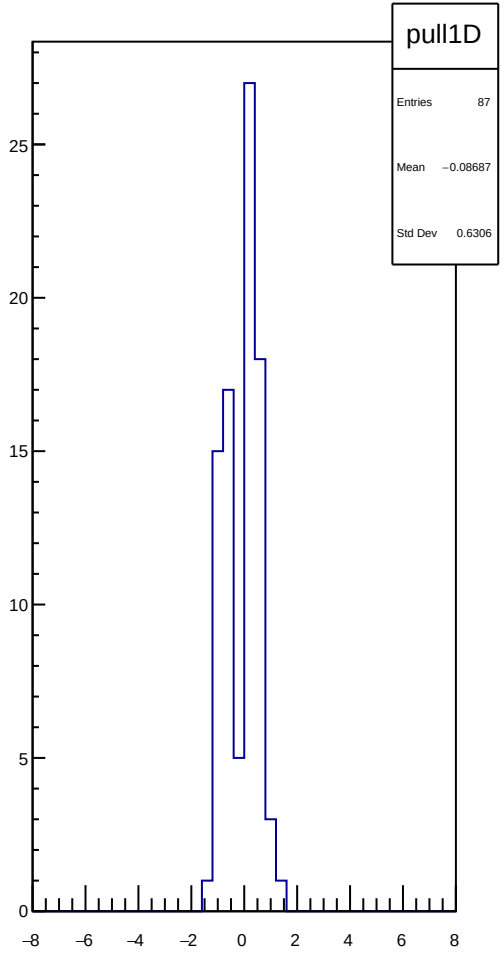

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.62 / 86
p0 2.705 ± 1.655
pull
Entries 87
Mean 362.3
Std Dev 221.2

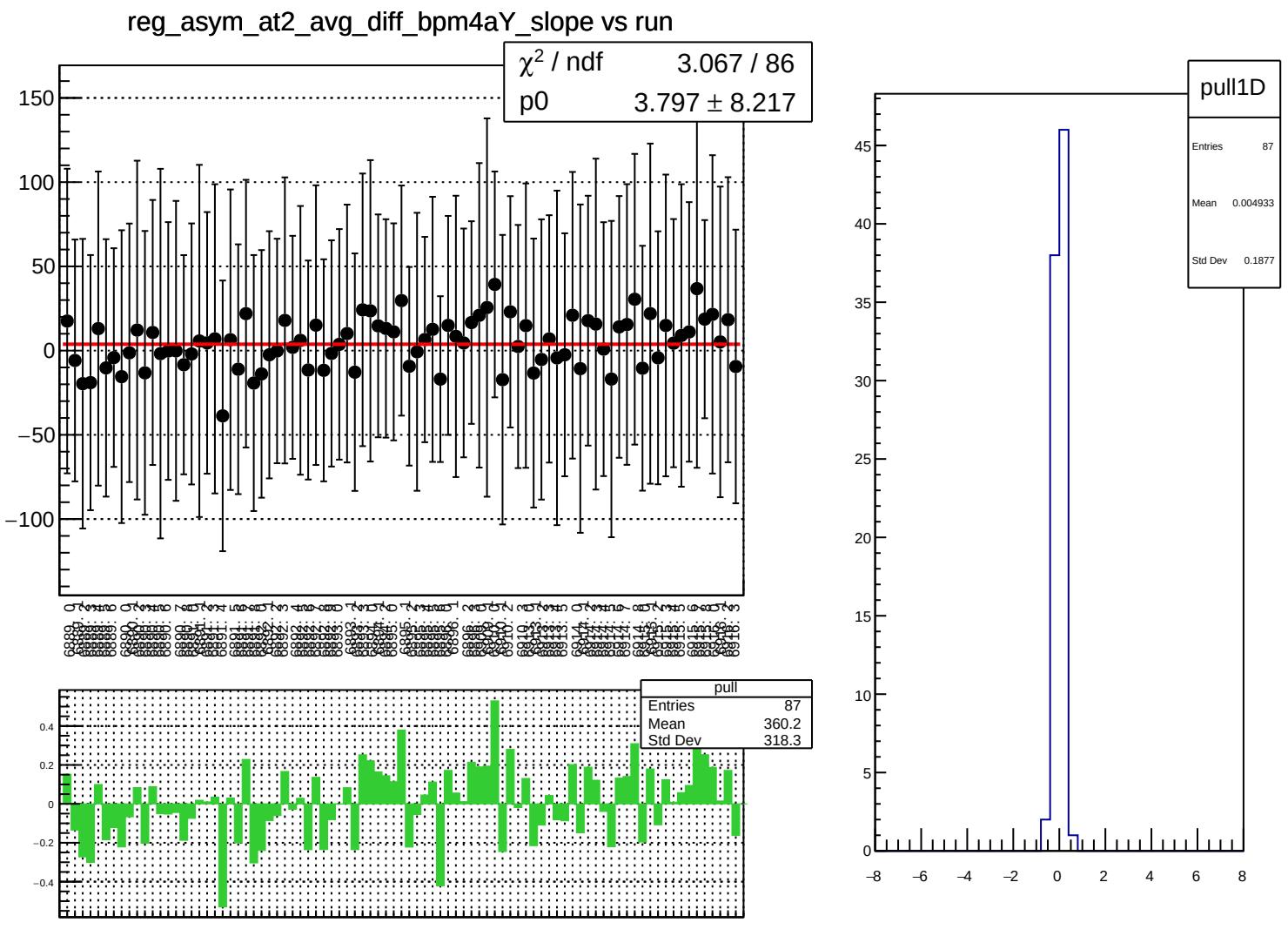

pull1D
Entries 87
Mean 0.0003841
Std Dev 0.9567

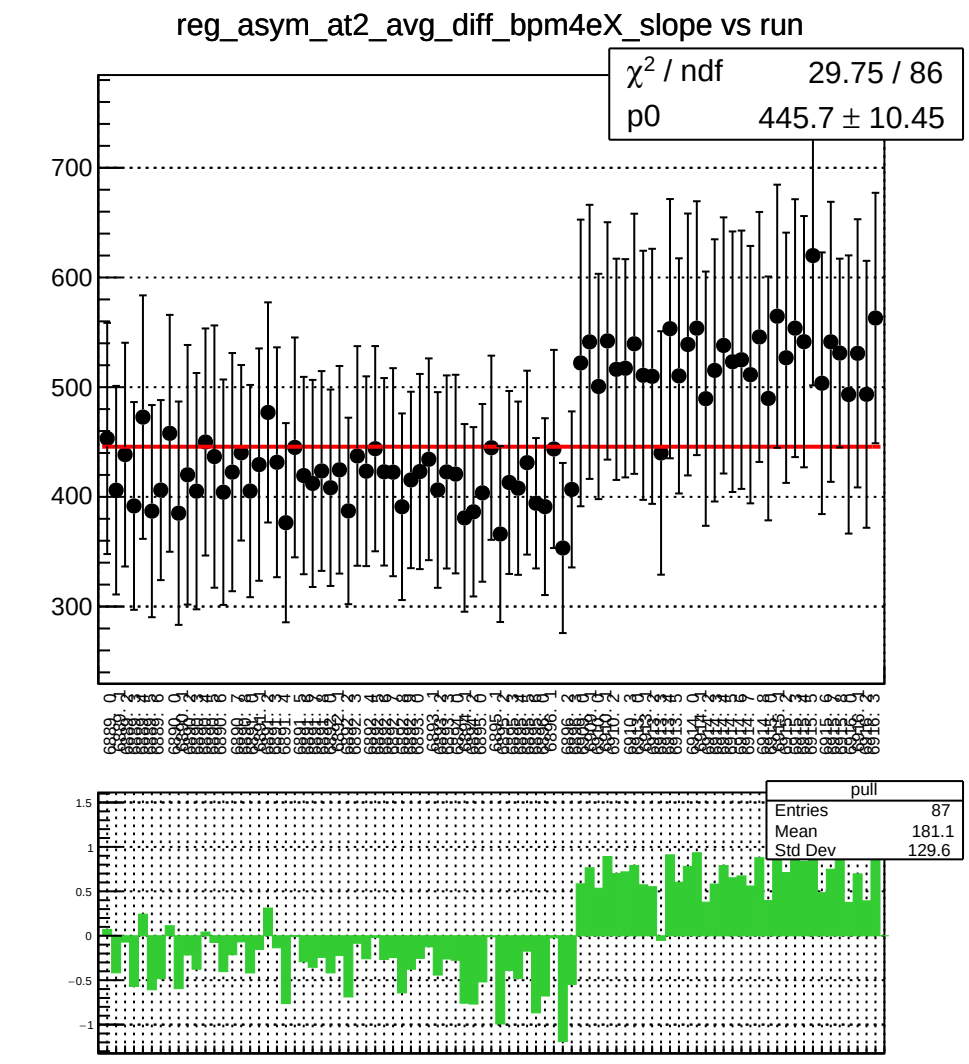

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 75.3 / 86
p0 −1.473 ± 0.07262
pull
Entries 87
Mean −3135
Std Dev 3171

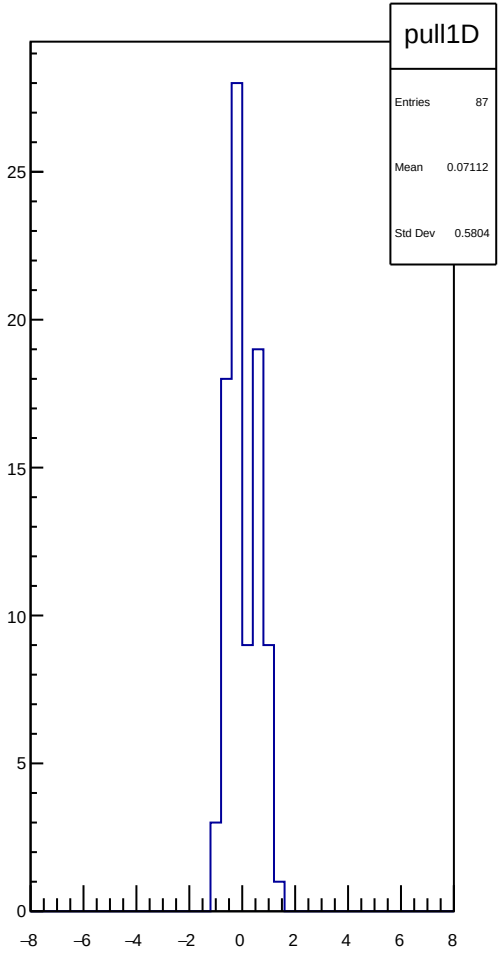

pull1D
Entries 87
Mean 0.001159
Std Dev 0.9303

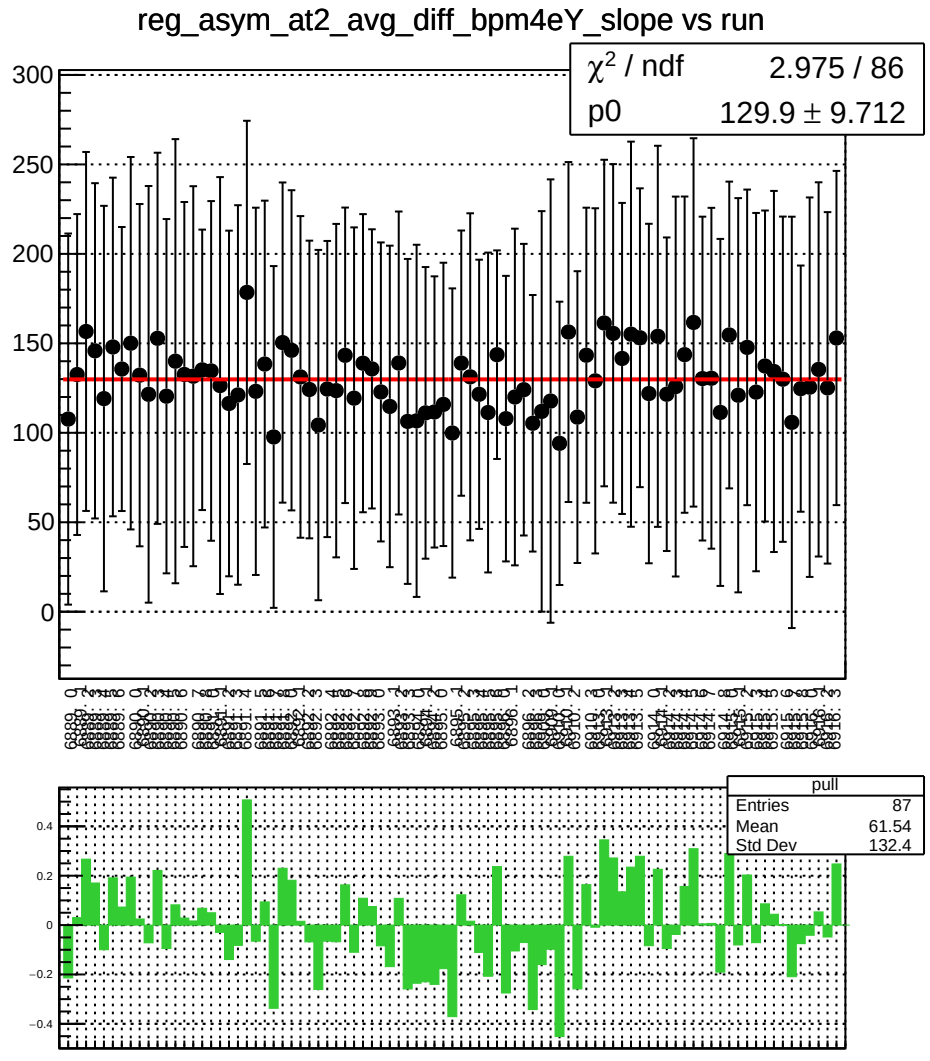

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 35.25 / 86
p0 −446.1 ± 10.91
−300
−400
−500
−600
−700
−800
pull
Entries 87
Mean 168.3
Std Dev 116.6
1
0.5
0
−0.5
−1
−1.5

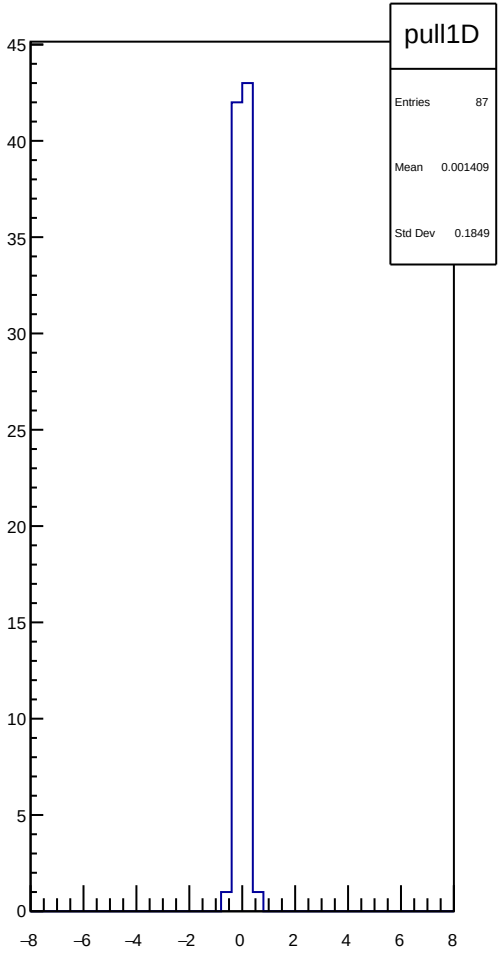

pull1D
Entries 87
Mean −0.08687
Std Dev 0.6306
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

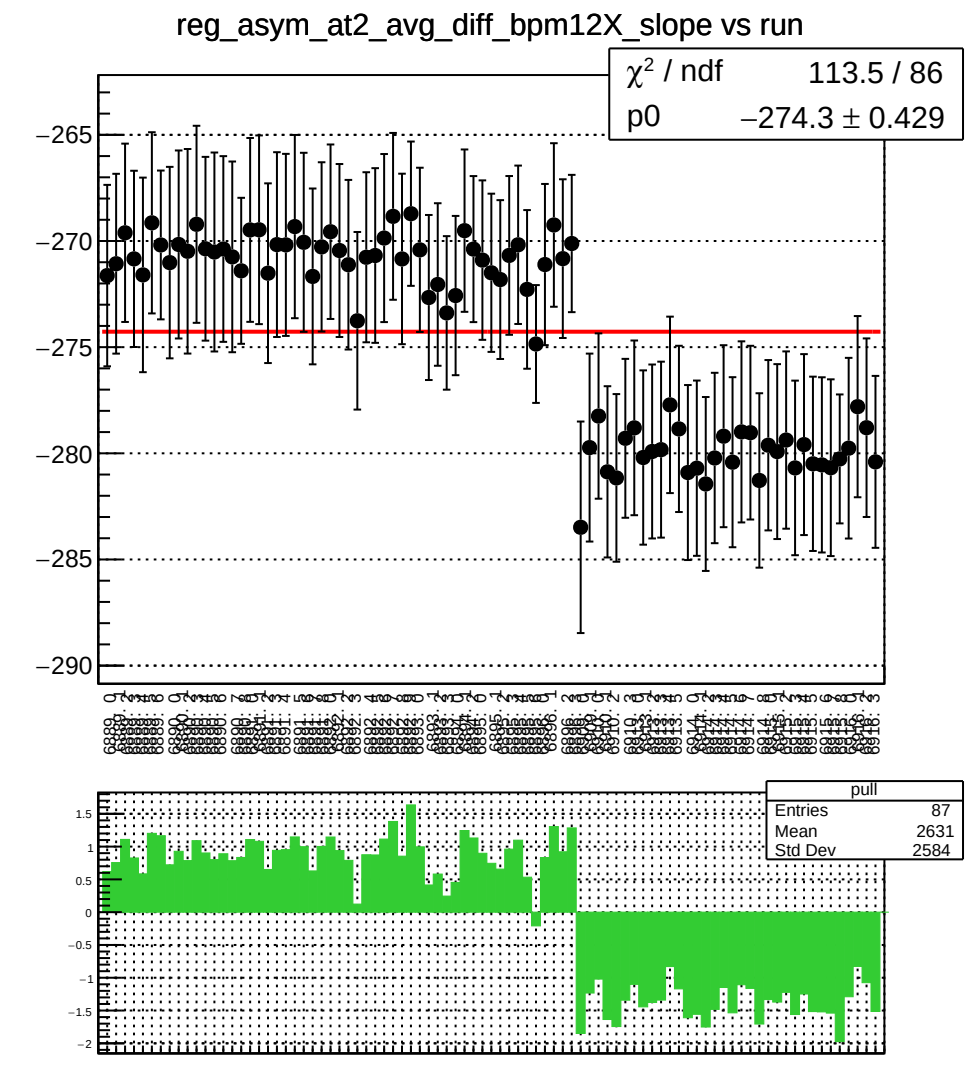

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.067 / 86
p0 3.797 ± 8.217
150
100
50
0
−50
−100
pull
Entries 87
Mean 360.2
Std Dev 318.3
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 87
Mean 0.004933
Std Dev 0.1877
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

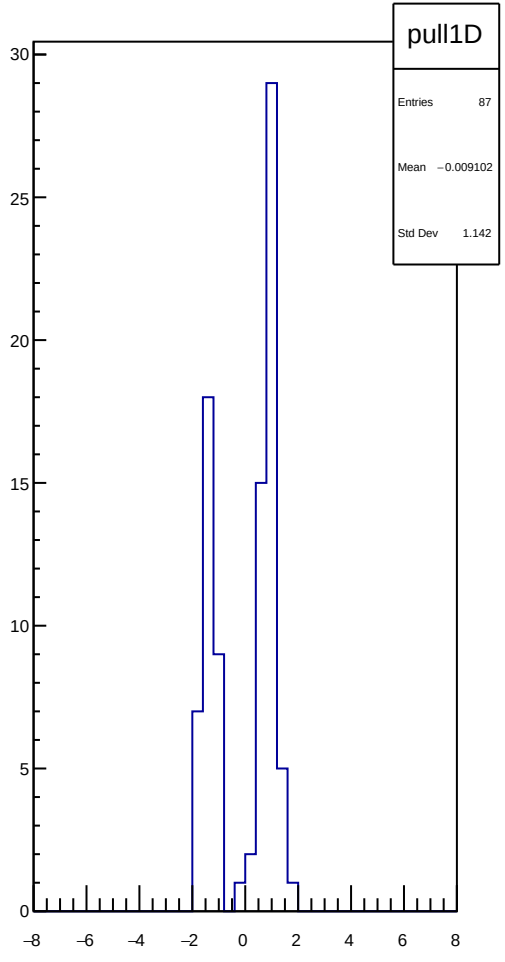

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.75 / 86
p0 445.7 ± 10.45
700
600
500
400
300
pull
Entries 87
Mean 181.1
Std Dev 129.6
1.5
1
0.5
0
−0.5
−1

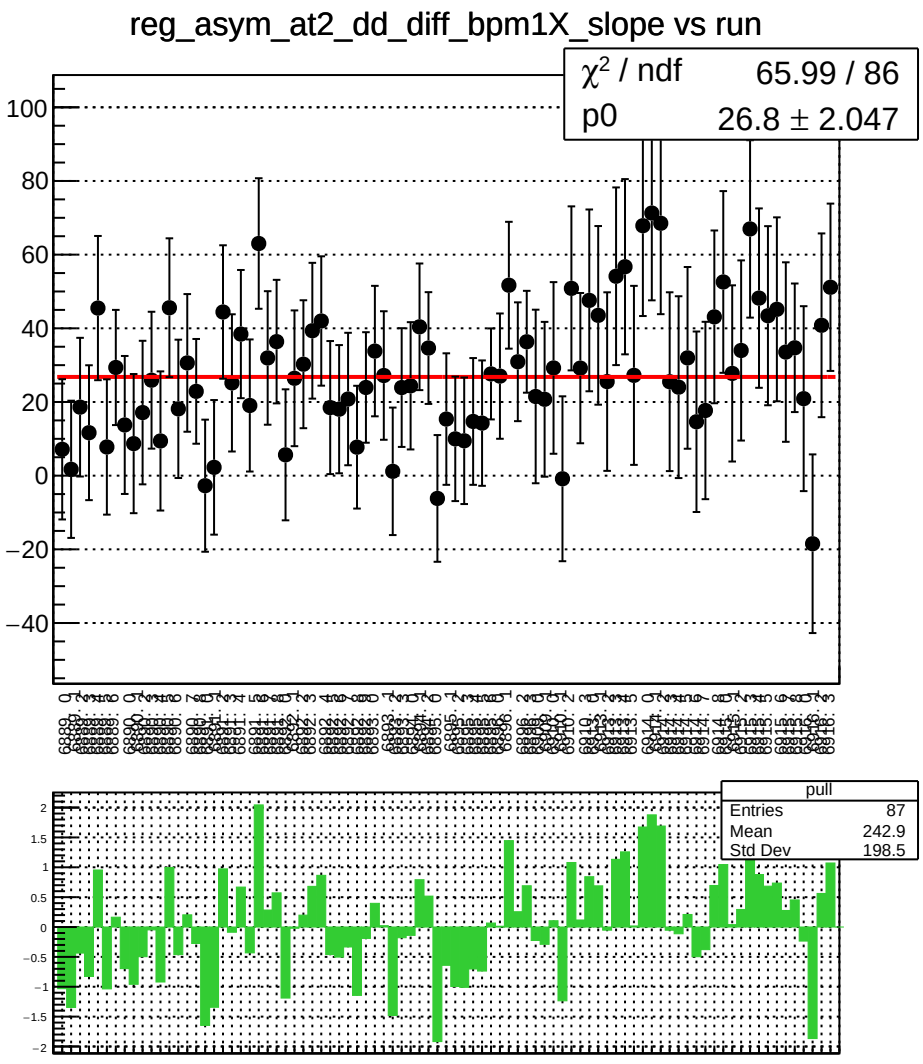

pull1D
Entries 87
Mean 0.07112
Std Dev 0.5804
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

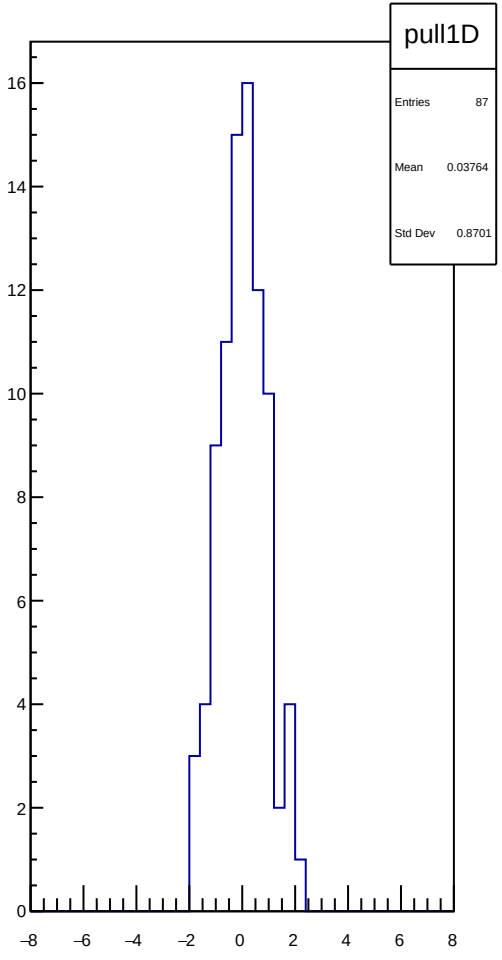

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.975 / 86
p0 129.9 ± 9.712
pull
Entries 87
Mean 61.54
Std Dev 132.4

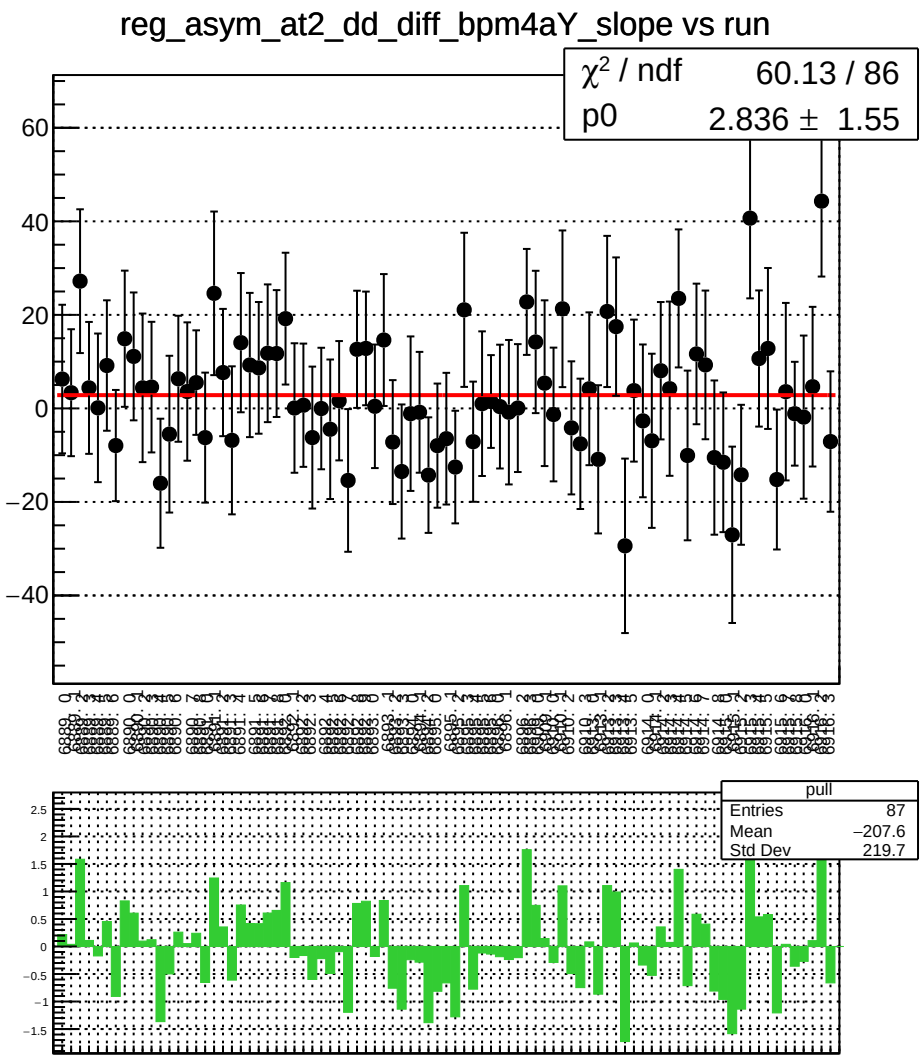

pull1D
Entries 87
Mean 0.001409
Std Dev 0.1849

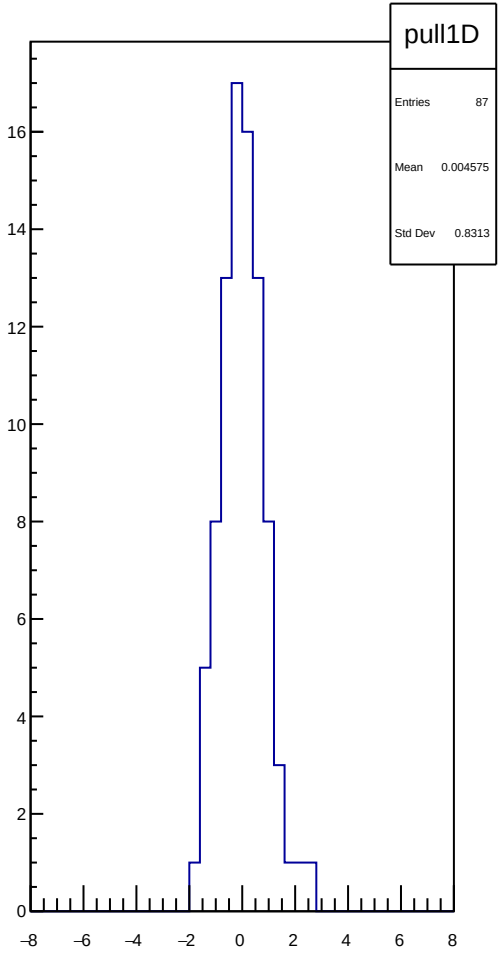

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 113.5 / 86
p0 −274.3 ± 0.429
−265
−270
−275
−280
−285
−290
pull
Entries 87
Mean 2631
Std Dev 2584
1.5
1
0.5
0
−0.5
−1
−1.5
−2

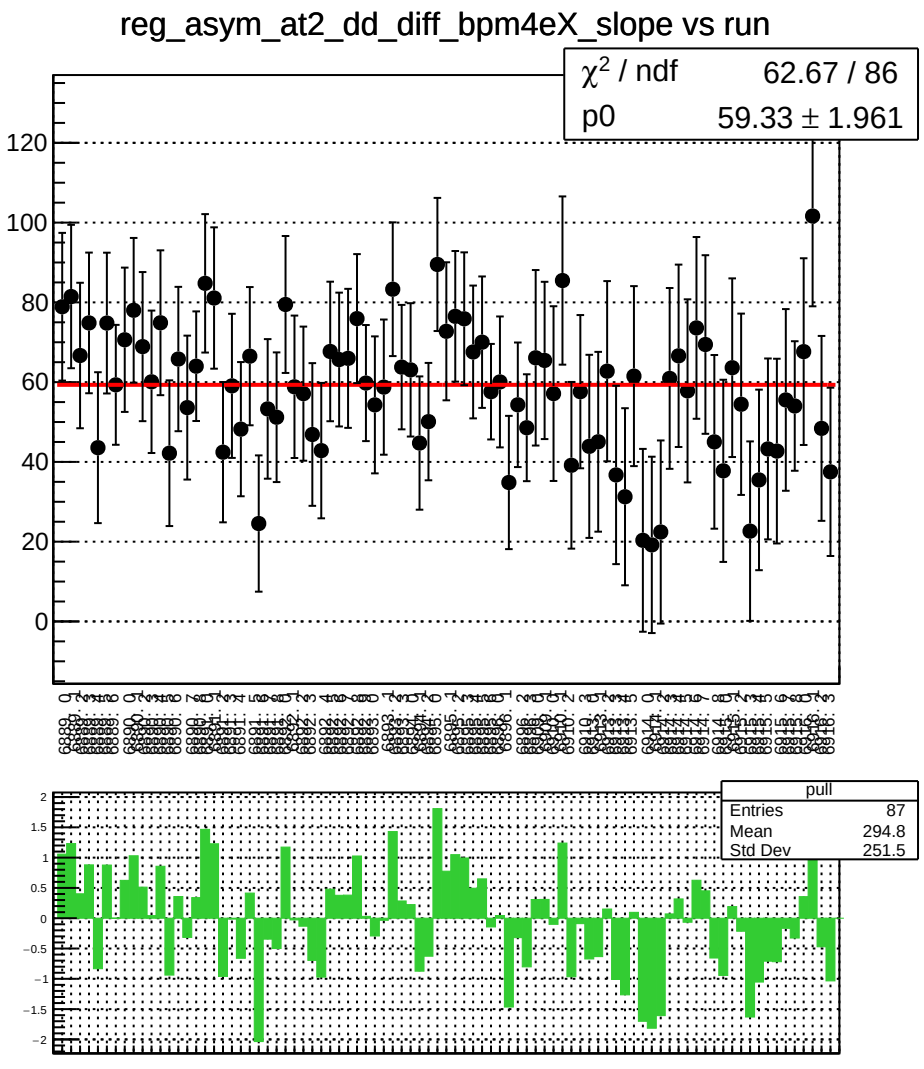

pull1D
Entries 87
Mean −0.009102
Std Dev 1.142
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

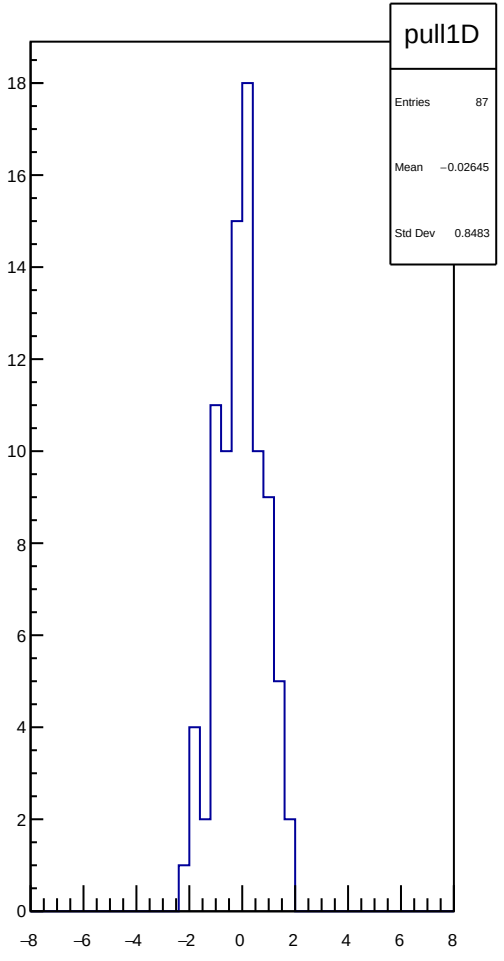

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 65.99 / 86
p0 26.8 ± 2.047
pull
Entries 87
Mean 242.9
Std Dev 198.5

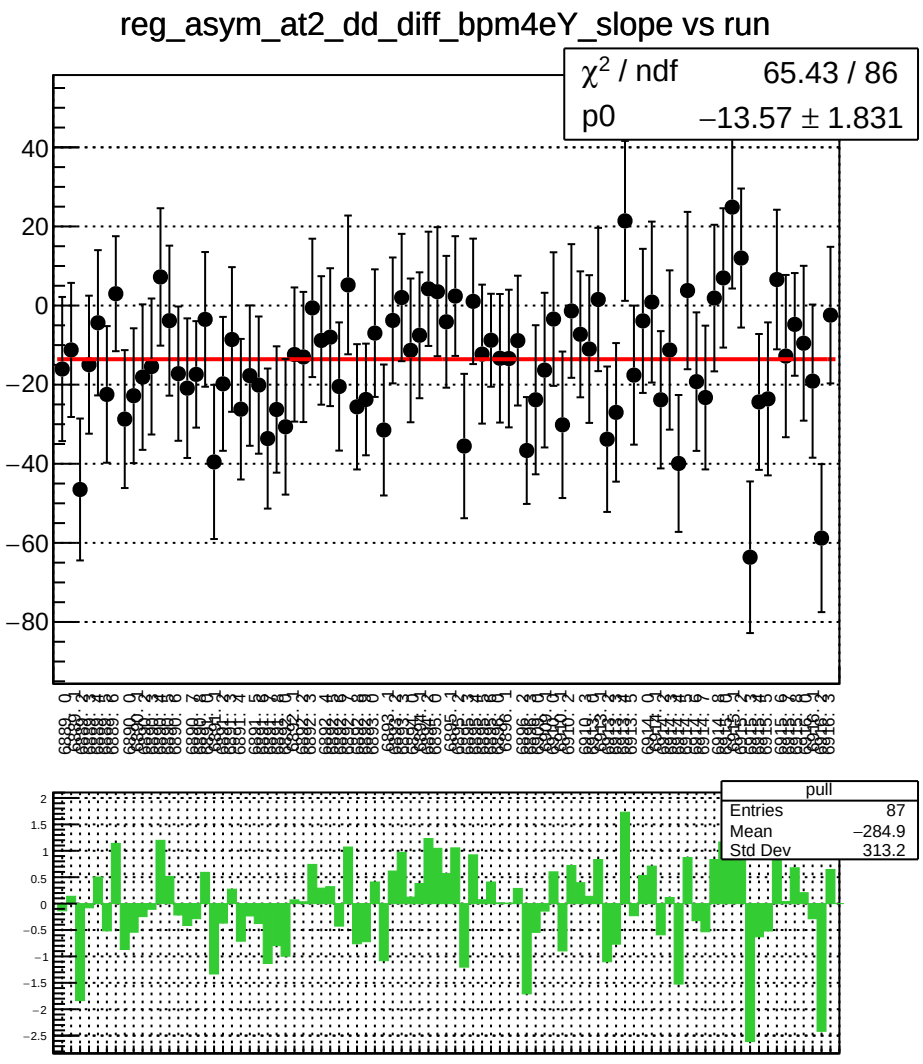

pull1D
Entries 87
Mean 0.03764
Std Dev 0.8701

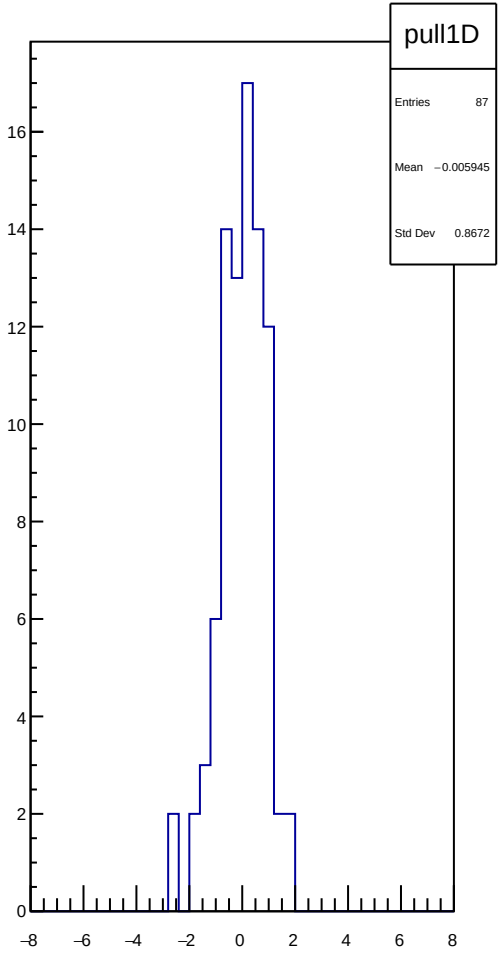

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.13 / 86
p0 2.836 ± 1.55
pull
Entries 87
Mean −207.6
Std Dev 219.7

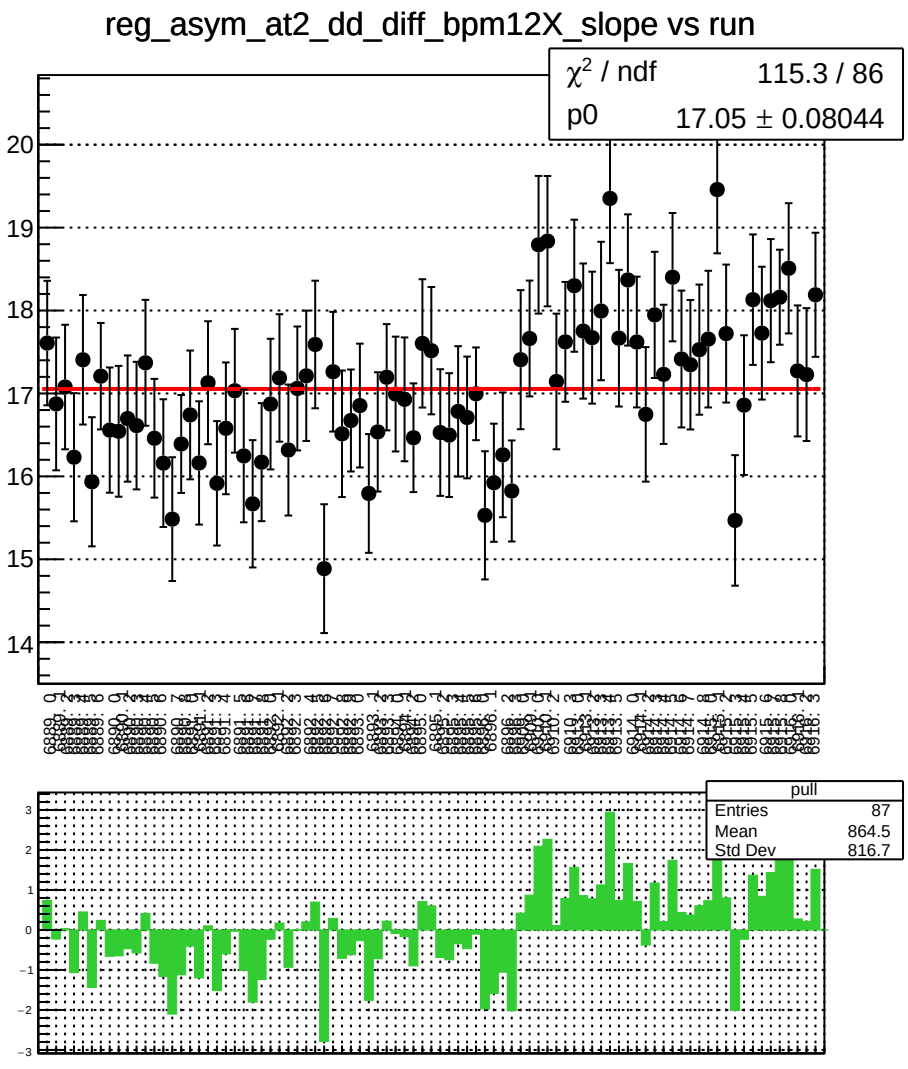

pull1D
Entries 87
Mean 0.004575
Std Dev 0.8313

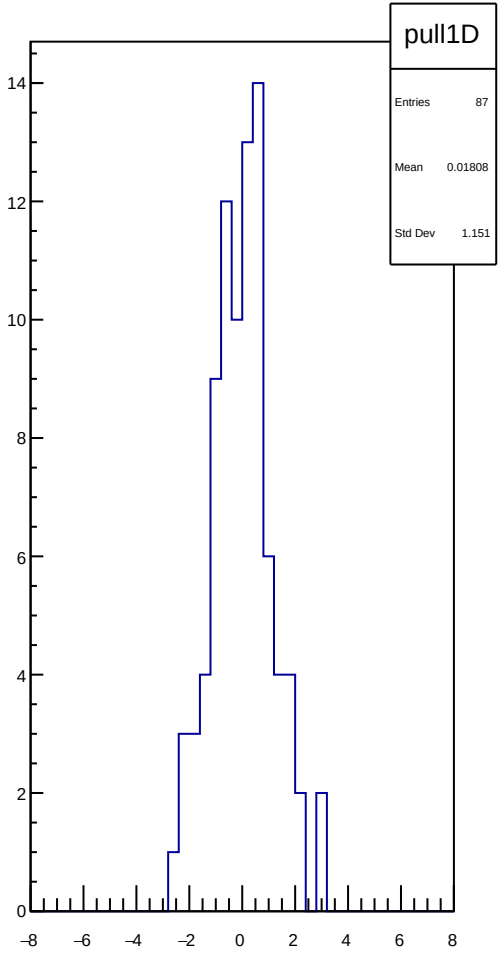

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.67 / 86
p0 59.33 ± 1.961
pull
Entries 87
Mean 294.8
Std Dev 251.5

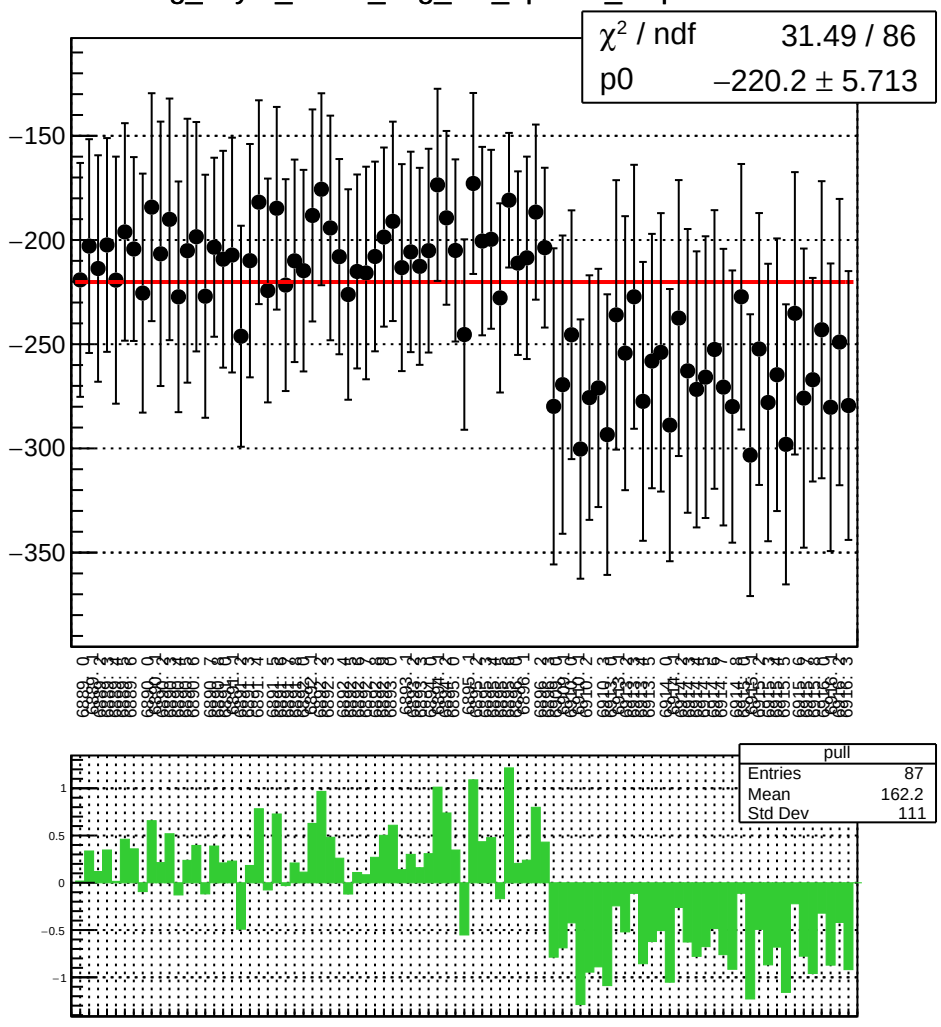

pull1D
Entries 87
Mean −0.02645
Std Dev 0.8483

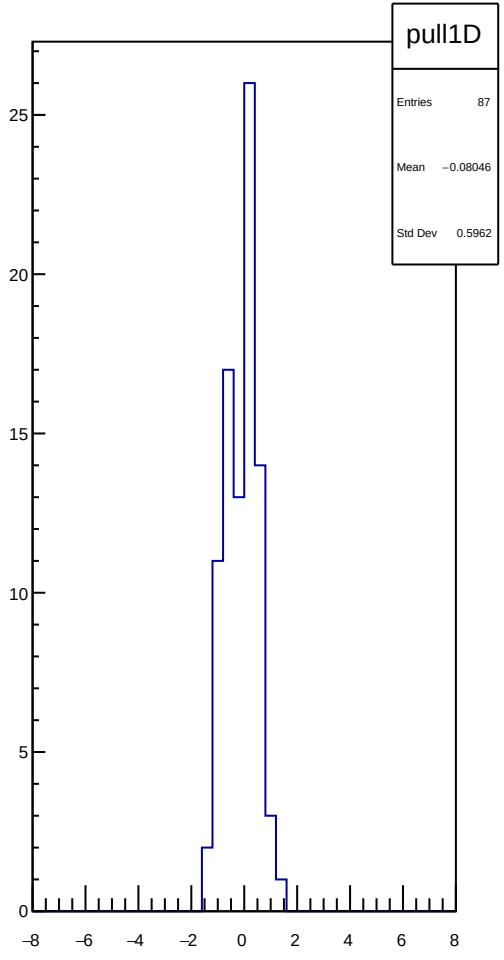

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.43 / 86
p0 −13.57 ± 1.831
pull
Entries 87
Mean −284.9
Std Dev 313.2

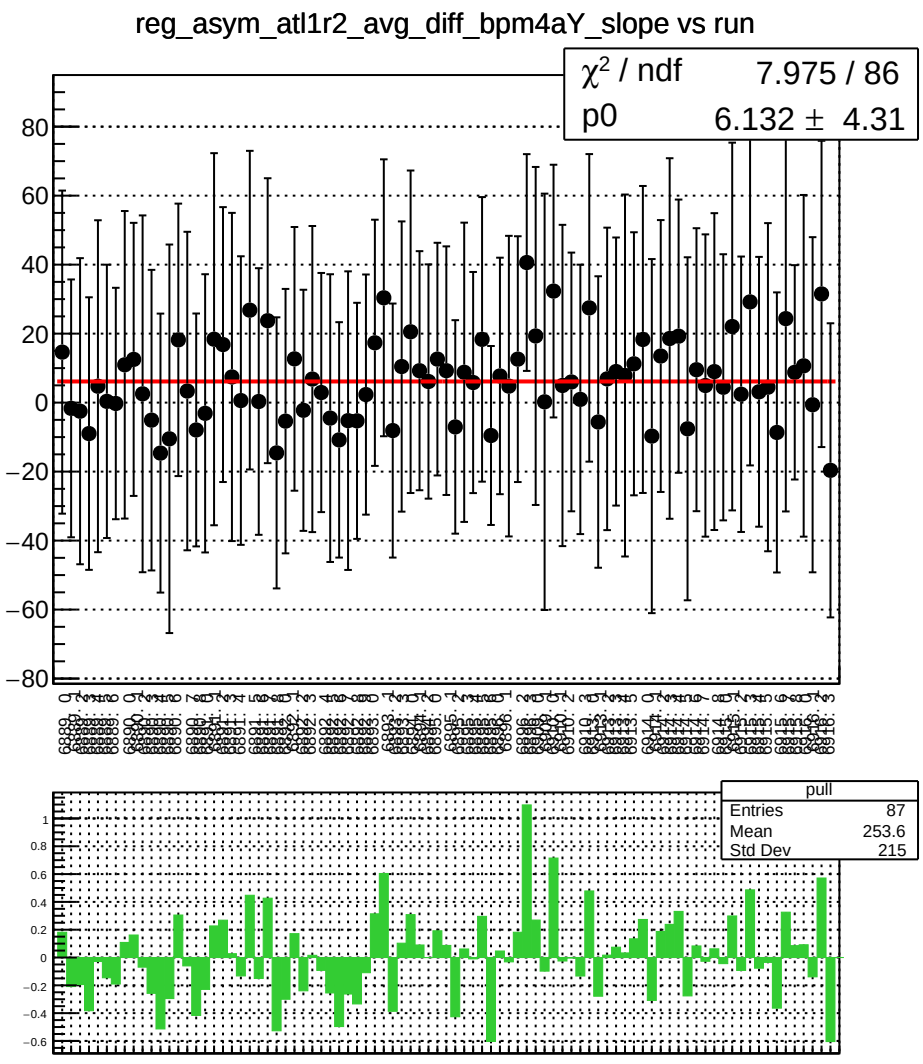

pull1D
Entries 87
Mean −0.005945
Std Dev 0.8672

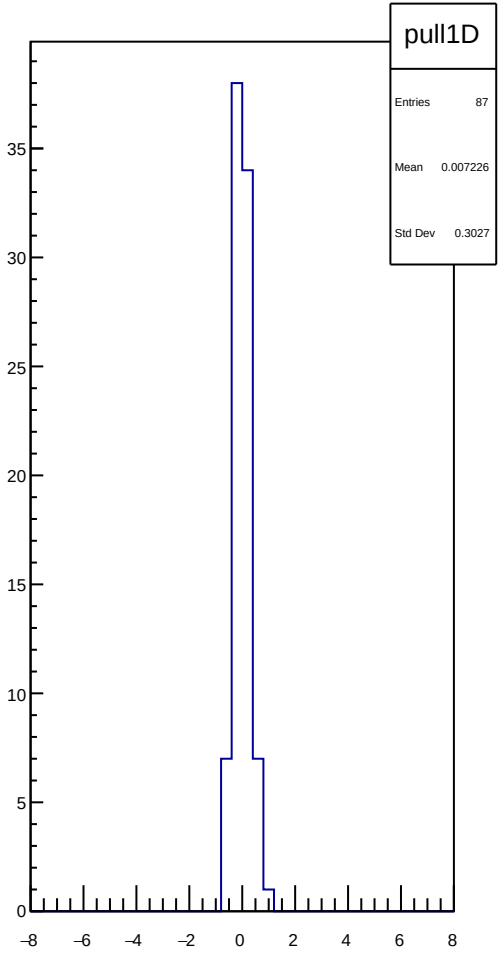

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 115.3 / 86
p0 17.05 ± 0.08044
pull
Entries 87
Mean 864.5
Std Dev 816.7

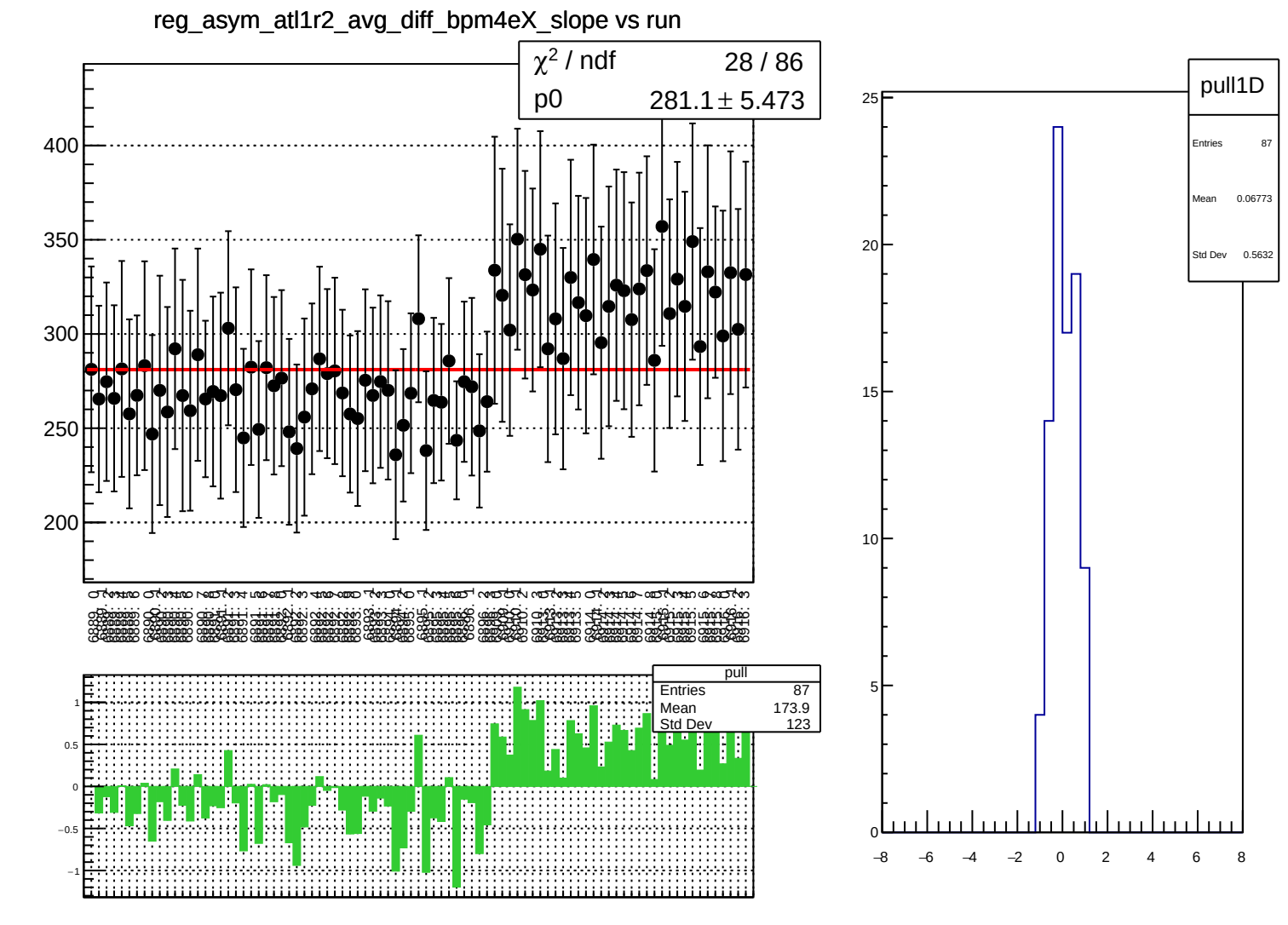

pull1D
Entries 87
Mean 0.01808
Std Dev 1.151

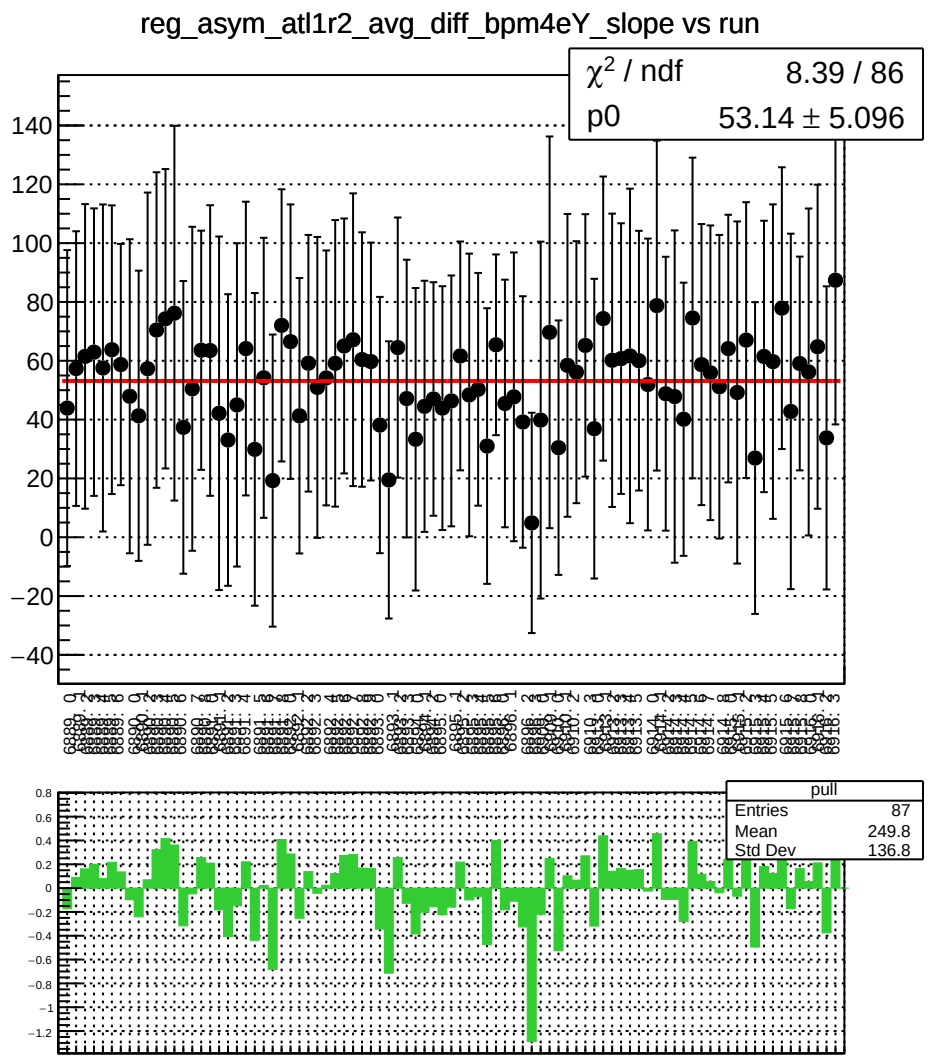

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 31.49 / 86
p0 −220.2 ± 5.713
−150
−200
−250
−300
−350
pull
Entries 87
Mean 162.2
Std Dev 111
1
0.5
0
−0.5
−1

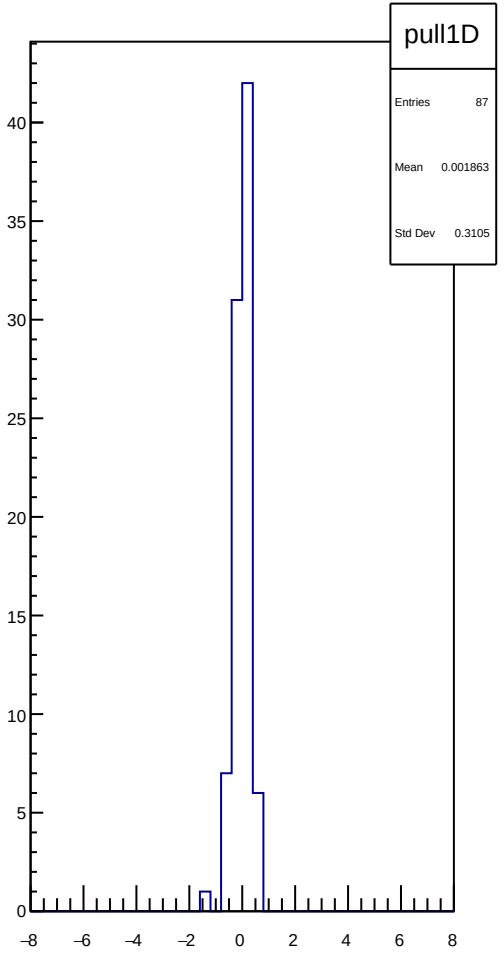

pull1D
Entries 87
Mean −0.08046
Std Dev 0.5962
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

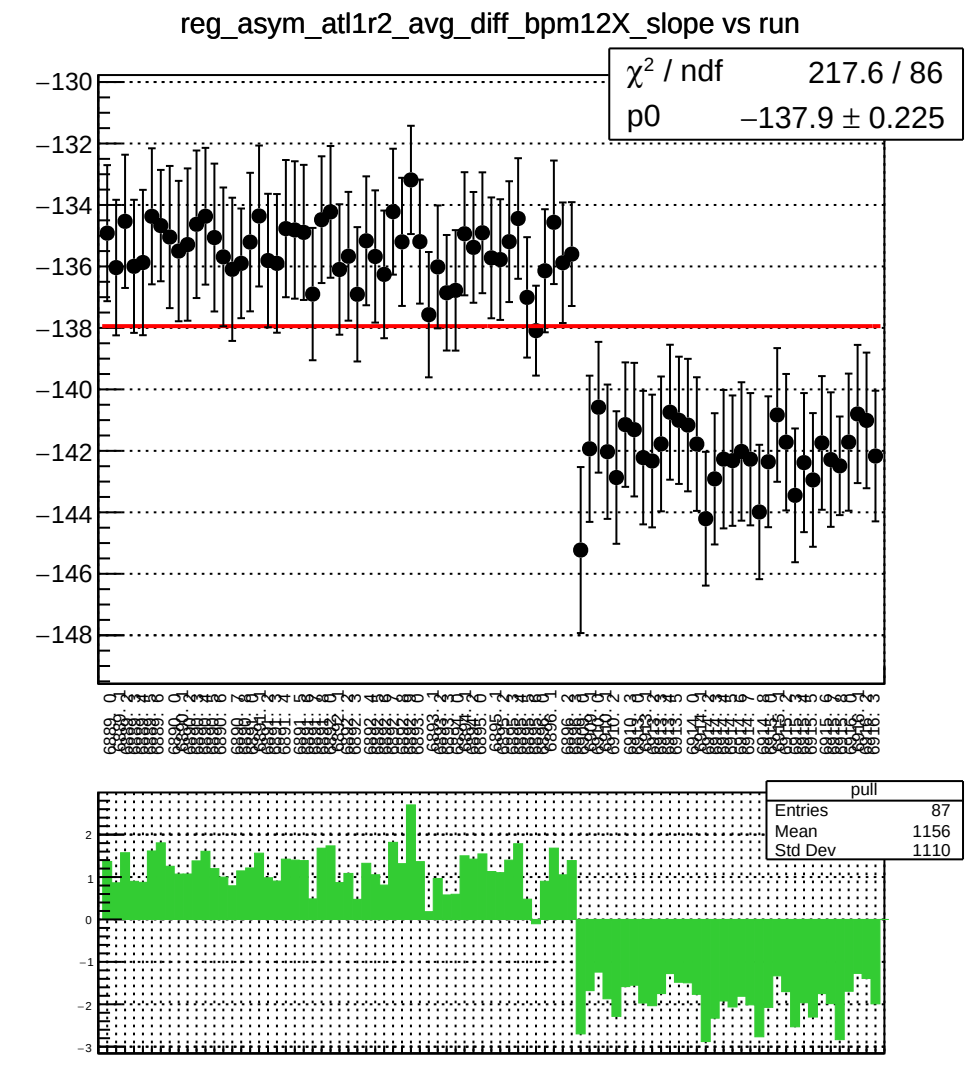

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.975 / 86
p0 6.132 ± 4.31
pull
Entries 87
Mean 253.6
Std Dev 215

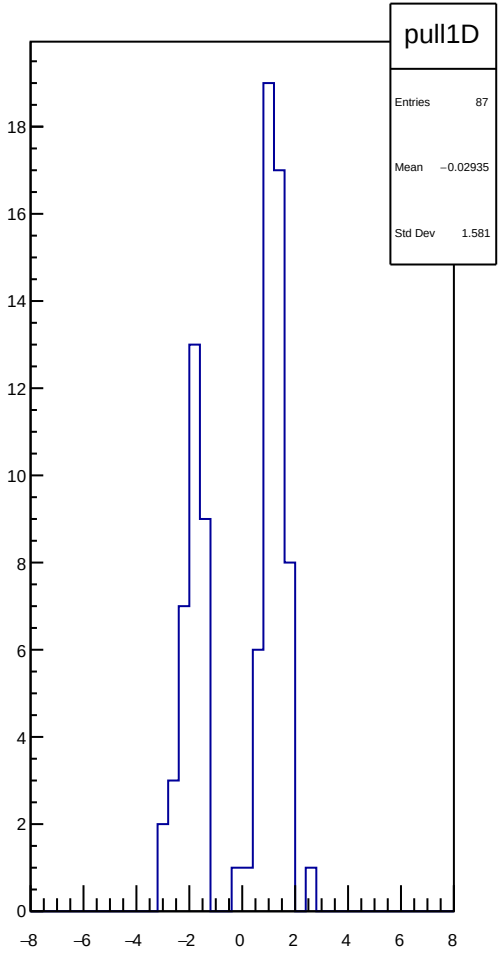

pull1D
Entries 87
Mean 0.007226
Std Dev 0.3027

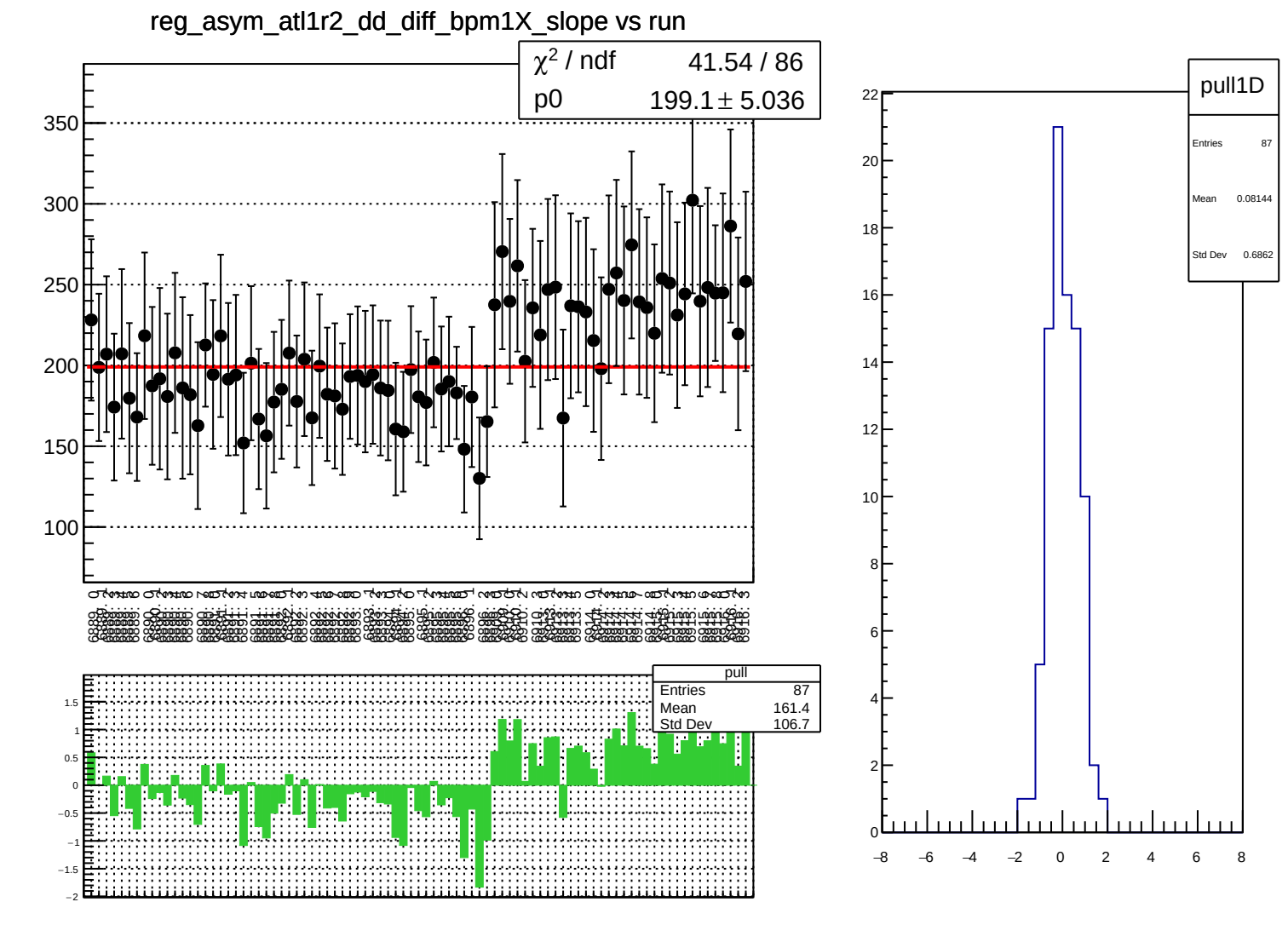

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 28 / 86
p0 281.1 ± 5.473
400
350
300
250
200
pull
Entries 87
Mean 173.9
Std Dev 123
1
0.5
0
−0.5
−1
pull1D
Entries 87
Mean 0.06773
Std Dev 0.5632
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

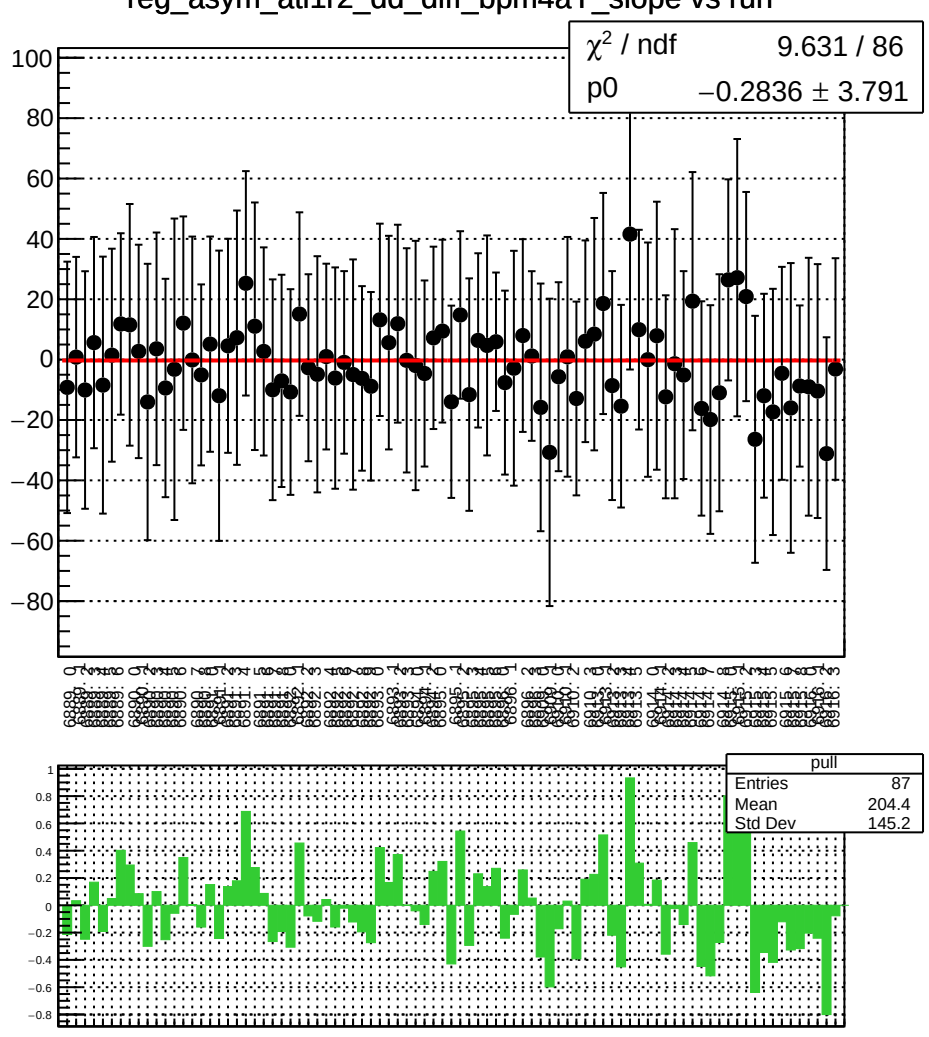

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.39 / 86
p0 53.14 ± 5.096
pull
Entries 87
Mean 249.8
Std Dev 136.8

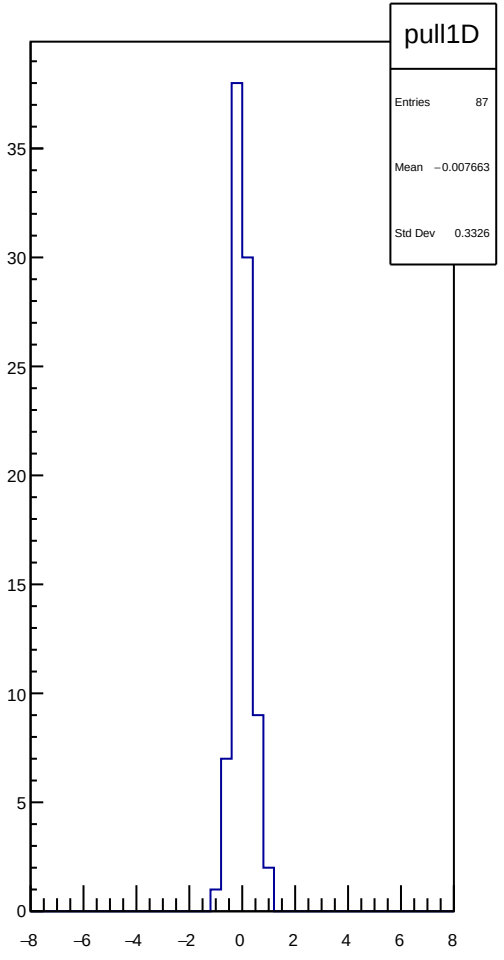

pull1D
Entries 87
Mean 0.001863
Std Dev 0.3105

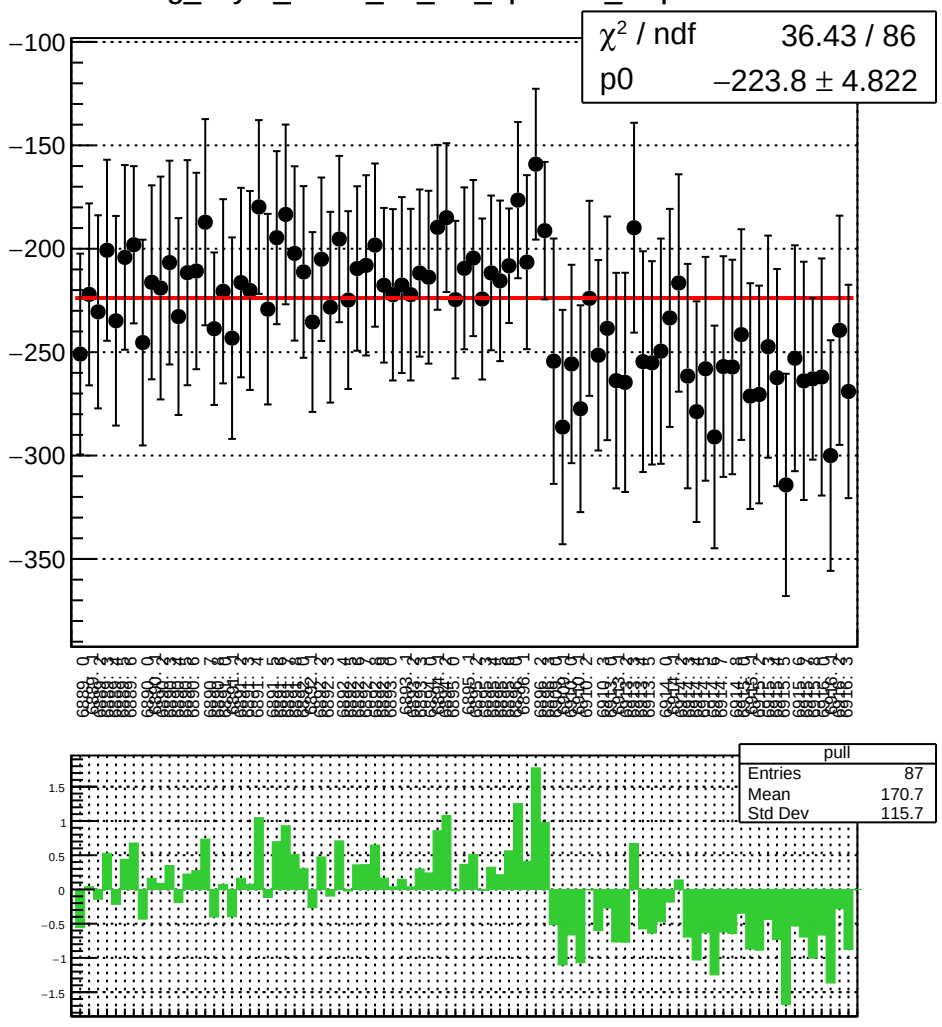

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 217.6 / 86
p0 −137.9 ± 0.225
pull
Entries 87
Mean 1156
Std Dev 1110

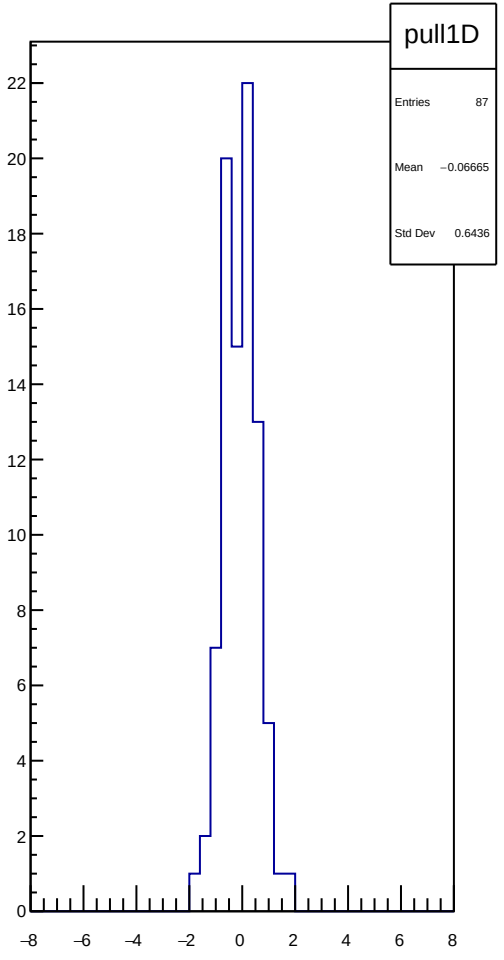

pull1D
Entries 87
Mean −0.02935
Std Dev 1.581

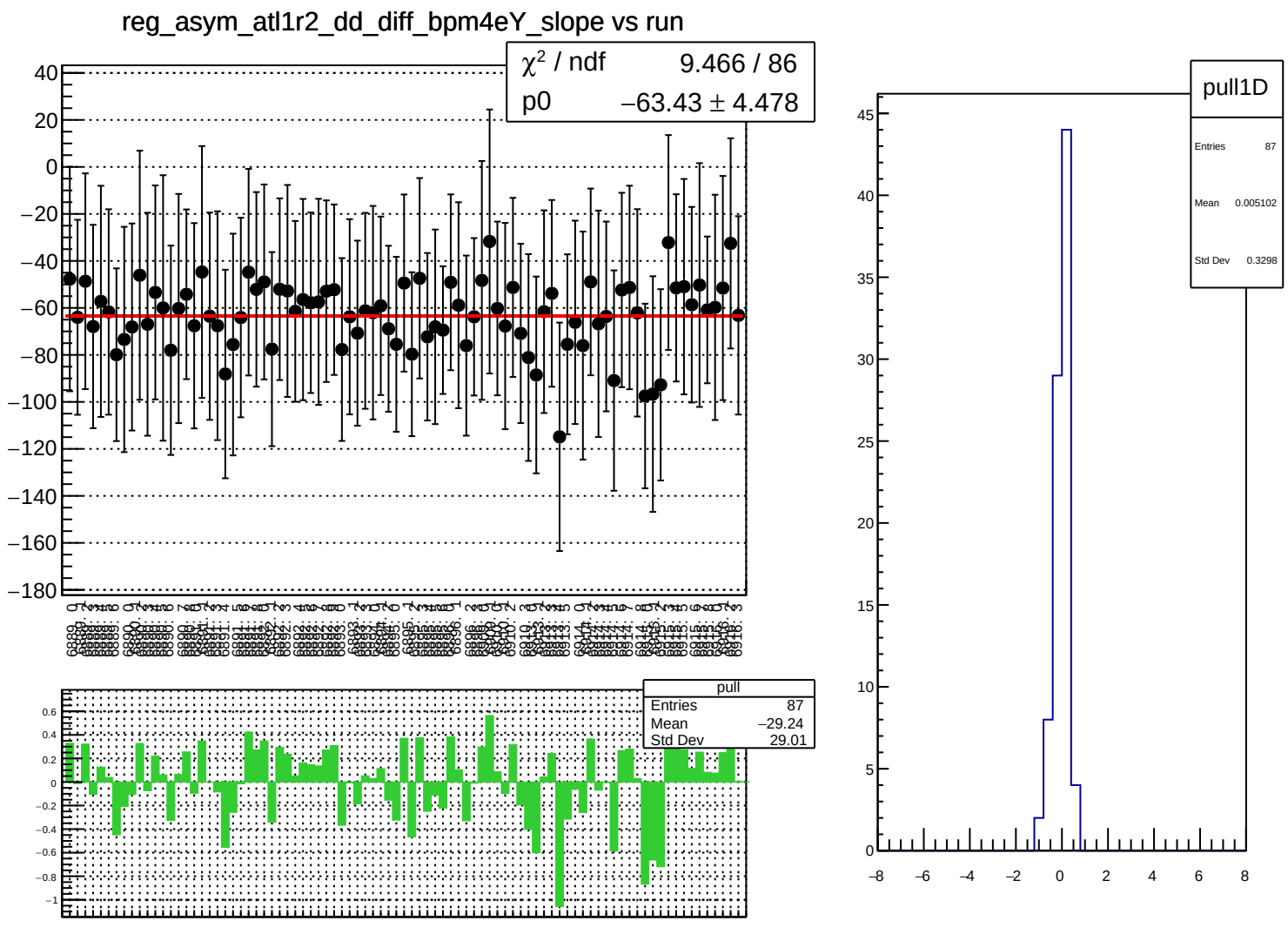

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 41.54 / 86
p0 199.1 ± 5.036
pull
Entries 87
Mean 161.4
Std Dev 106.7
pull1D
Entries 87
Mean 0.08144
Std Dev 0.6862

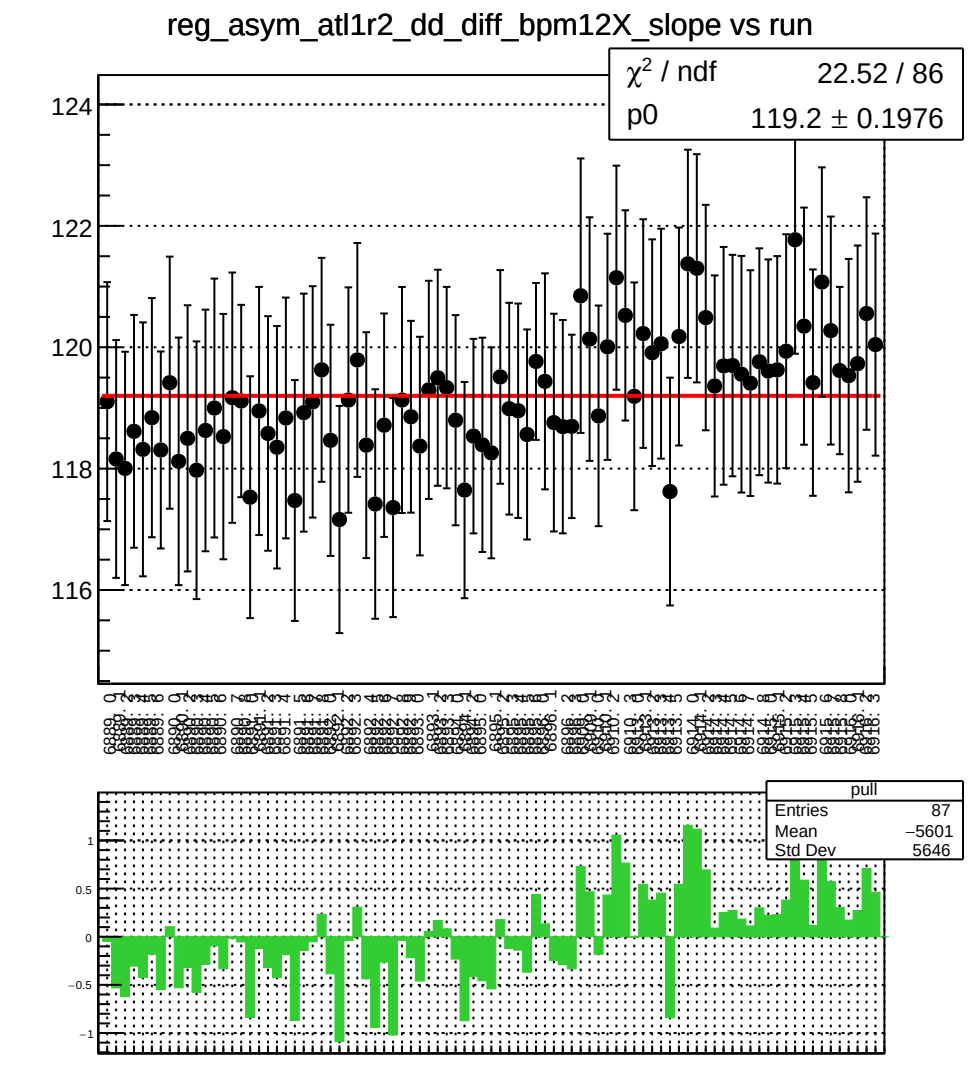

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.631 / 86
p0 −0.2836 ± 3.791
pull
Entries 87
Mean 204.4
Std Dev 145.2

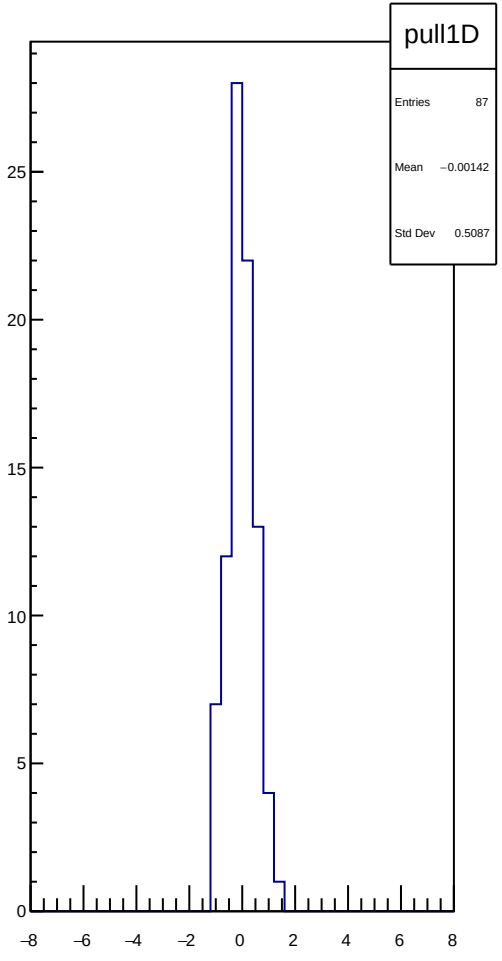

pull1D
Entries 87
Mean −0.007663
Std Dev 0.3326

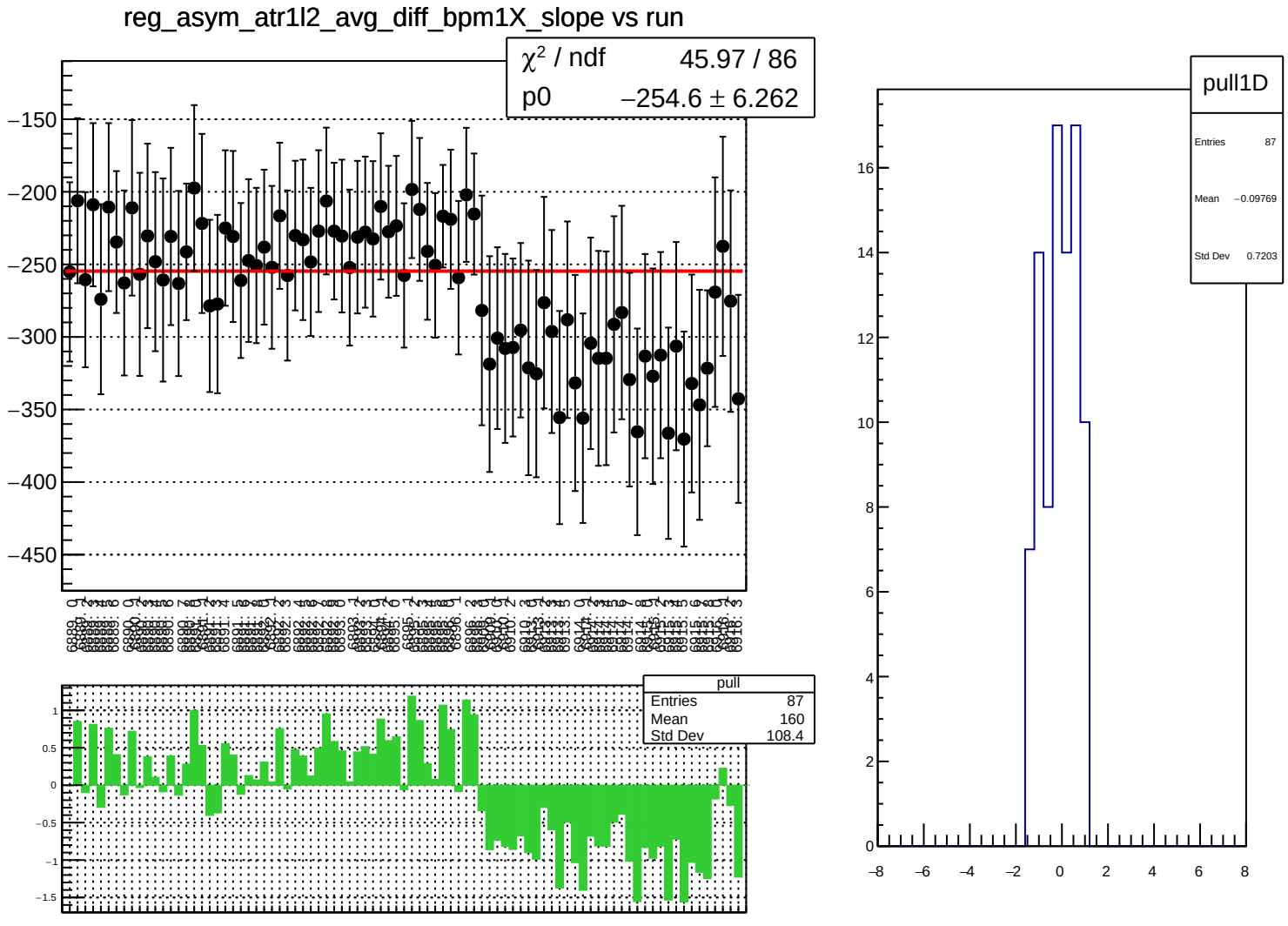

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.43 / 86
p0 −223.8 ± 4.822
pull
Entries 87
Mean 170.7
Std Dev 115.7

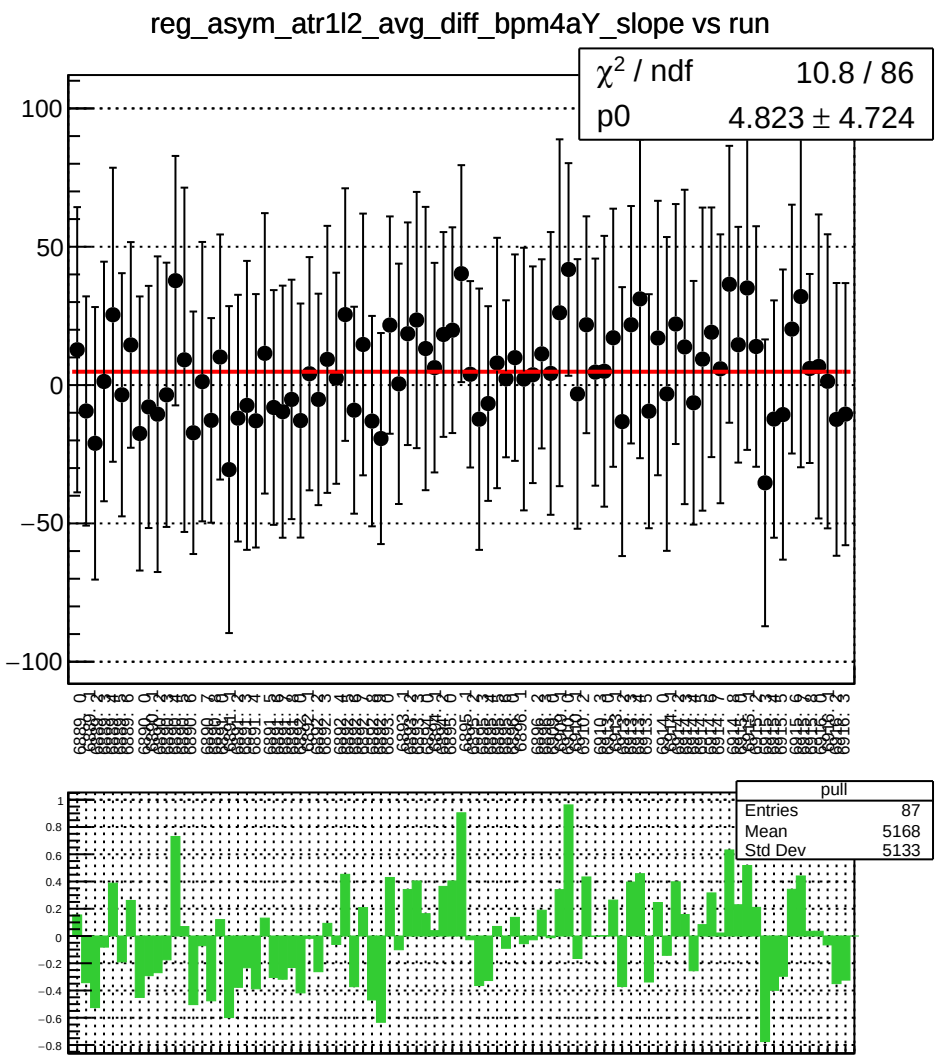

pull1D
Entries 87
Mean −0.06665
Std Dev 0.6436

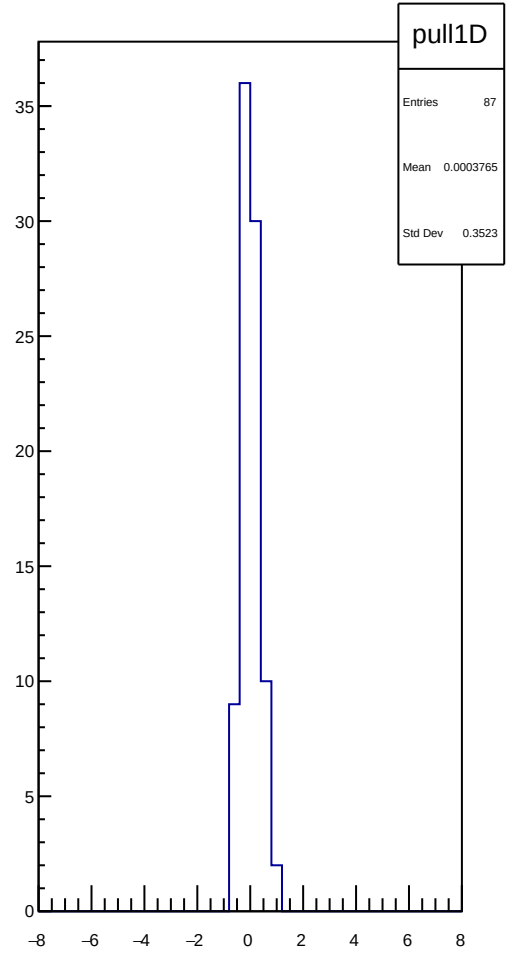

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.466 / 86
p0 −63.43 ± 4.478
pull
Entries 87
Mean −29.24
Std Dev 29.01
pull1D
Entries 87
Mean 0.005102
Std Dev 0.3298

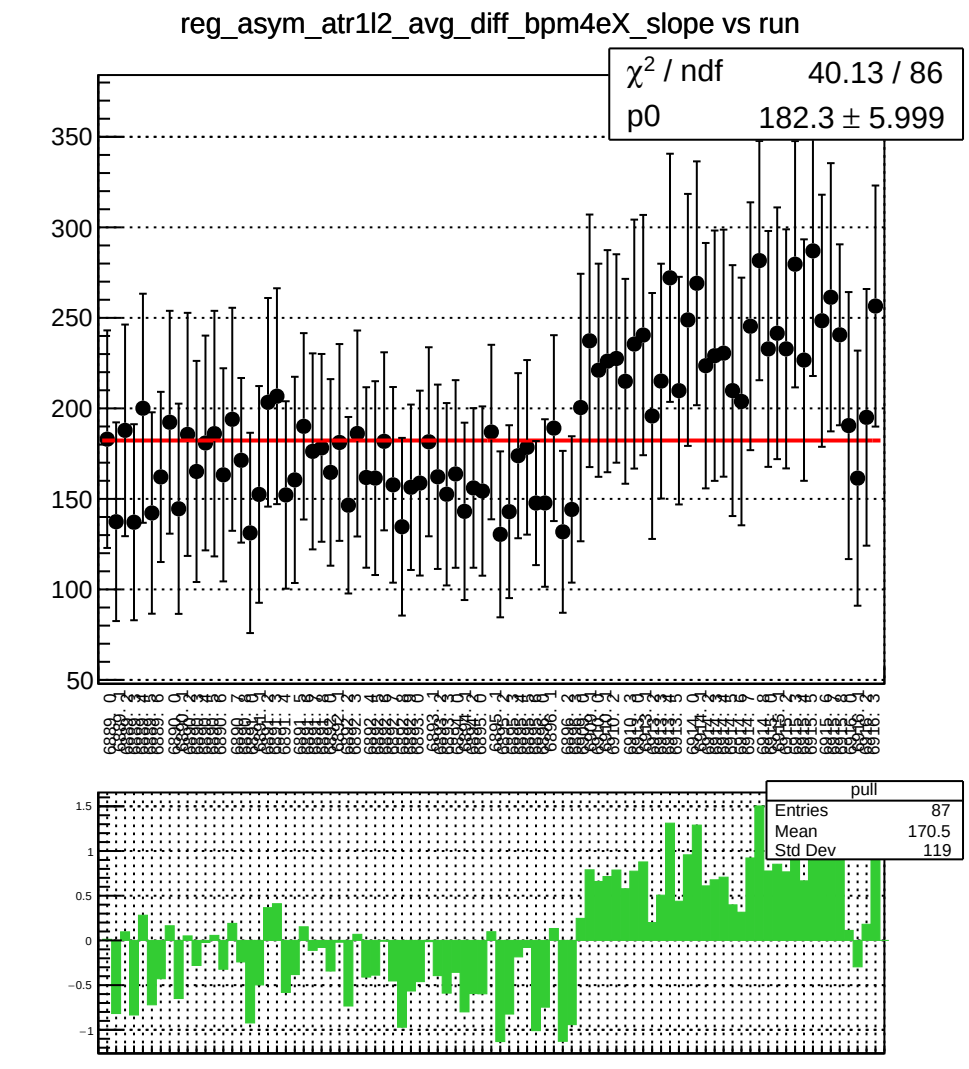

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 22.52 / 86
p0 119.2 ± 0.1976
124
122
120
118
116
pull
Entries 87
Mean −5601
Std Dev 5646
1
0.5
0
−0.5
−1

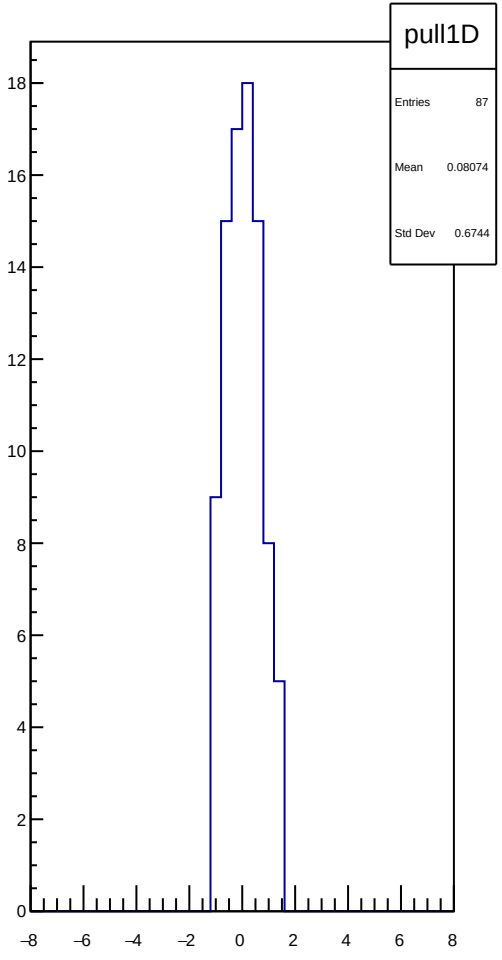

pull1D
Entries 87
Mean −0.00142
Std Dev 0.5087
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

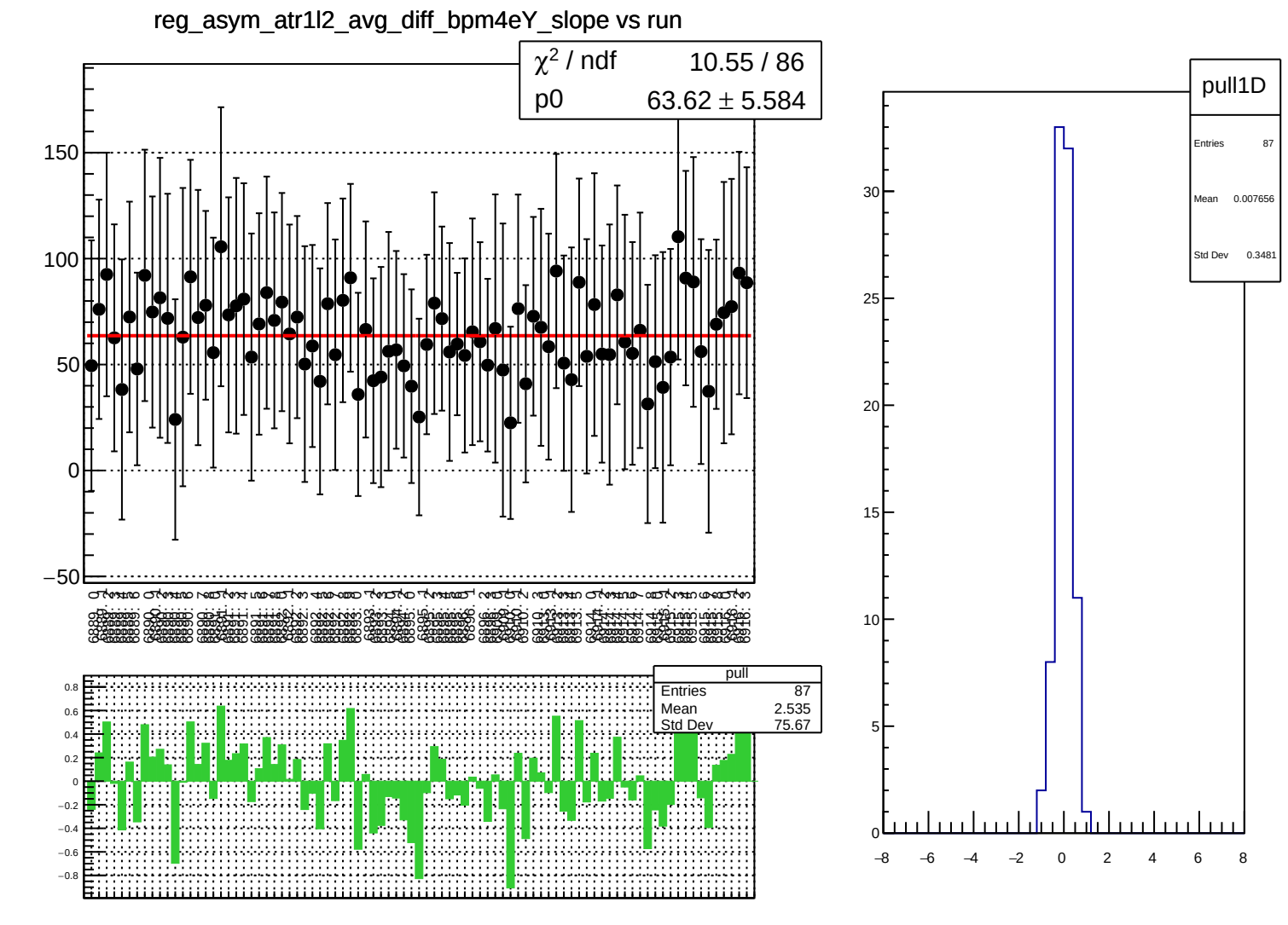

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 45.97 / 86
p0 −254.6 ± 6.262
pull
Entries 87
Mean 160
Std Dev 108.4
pull1D
Entries 87
Mean −0.09769
Std Dev 0.7203

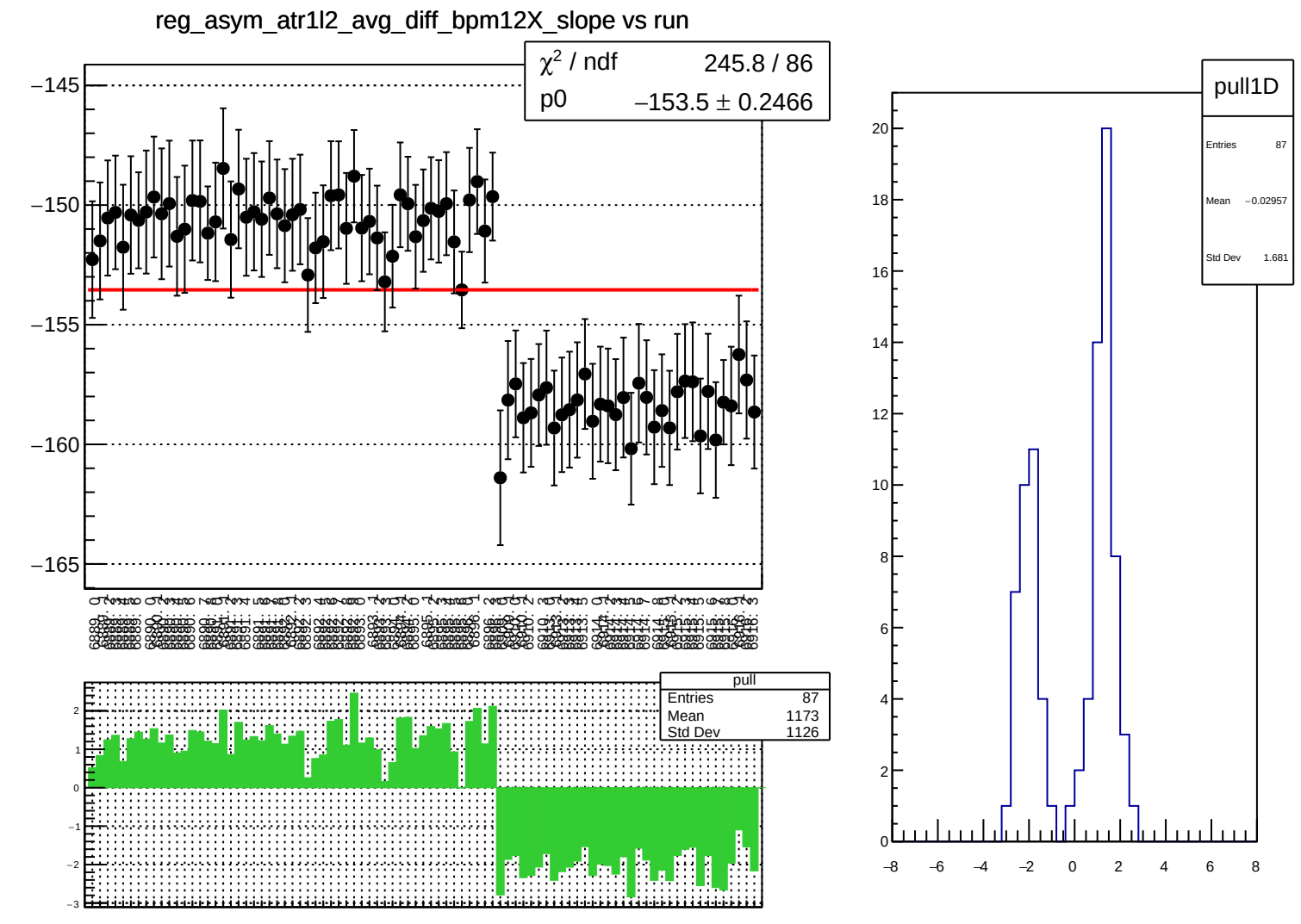

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.8 / 86
p0 4.823 ± 4.724
100
50
0
−50
−100
pull
Entries 87
Mean 5168
Std Dev 5133
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

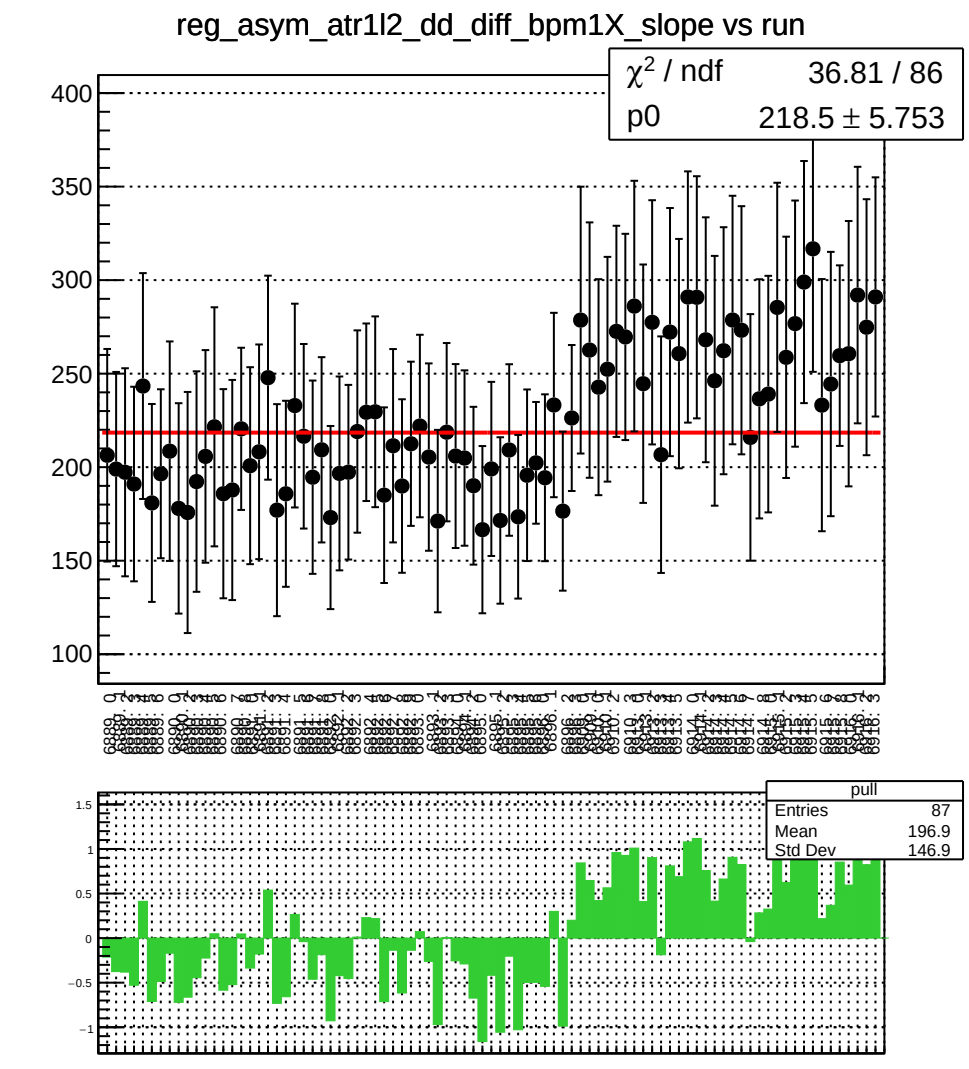

pull1D
Entries 87
Mean 0.0003765
Std Dev 0.3523
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

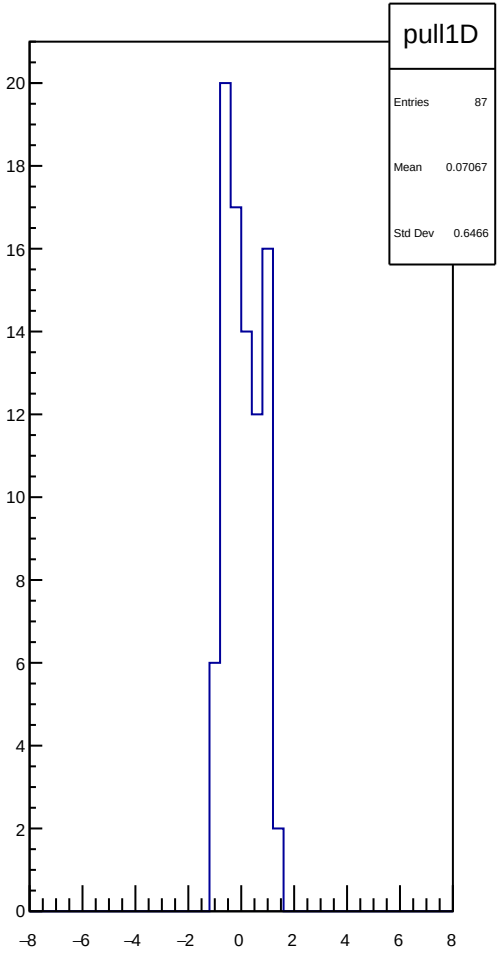

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.13 / 86
p0 182.3 ± 5.999
pull
Entries 87
Mean 170.5
Std Dev 119

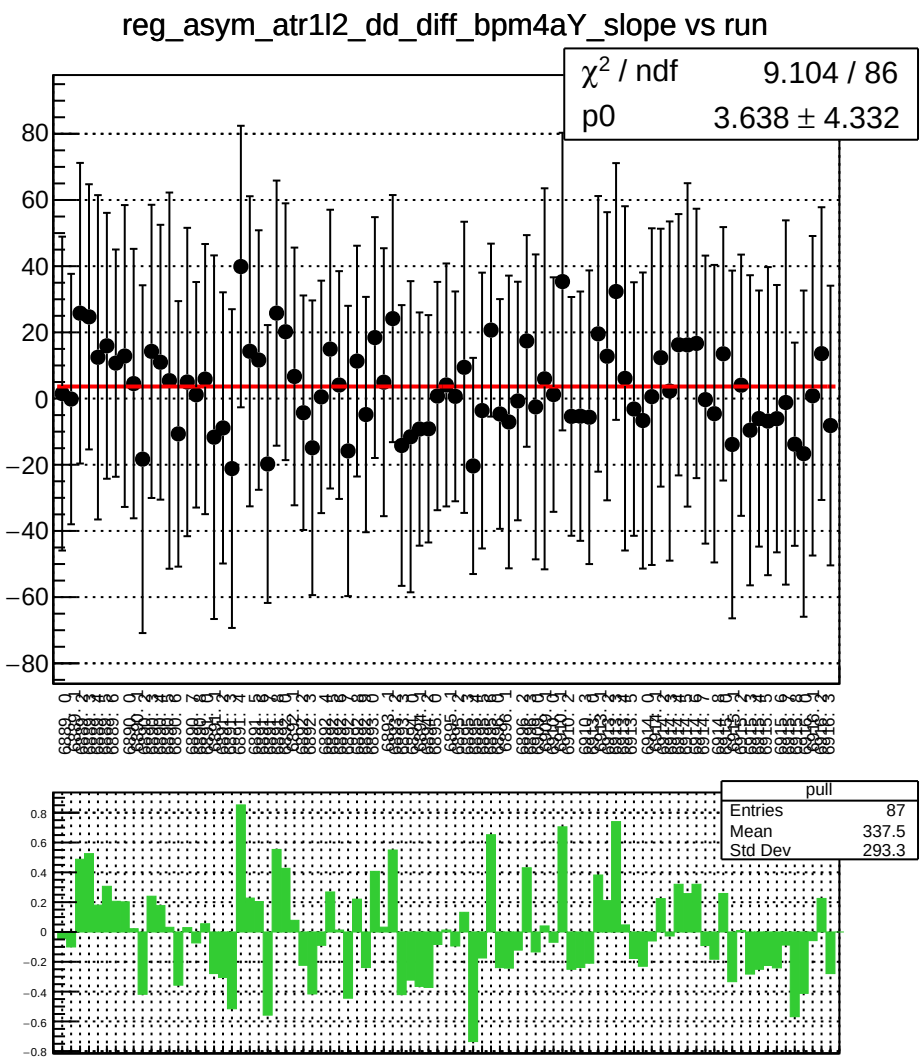

pull1D
Entries 87
Mean 0.08074
Std Dev 0.6744

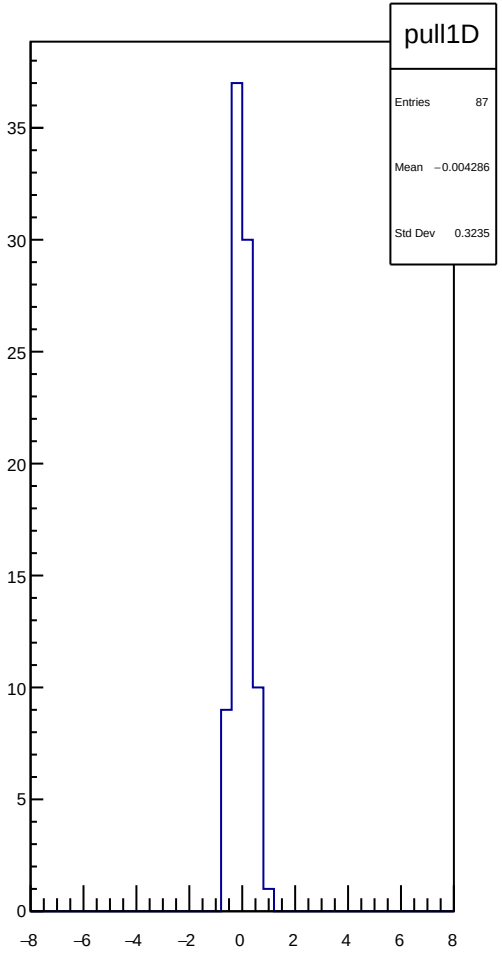

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.55 / 86
p0 63.62 ± 5.584
150
100
50
0
−50
pull
Entries 87
Mean 2.535
Std Dev 75.67
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 87
Mean 0.007656
Std Dev 0.3481
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

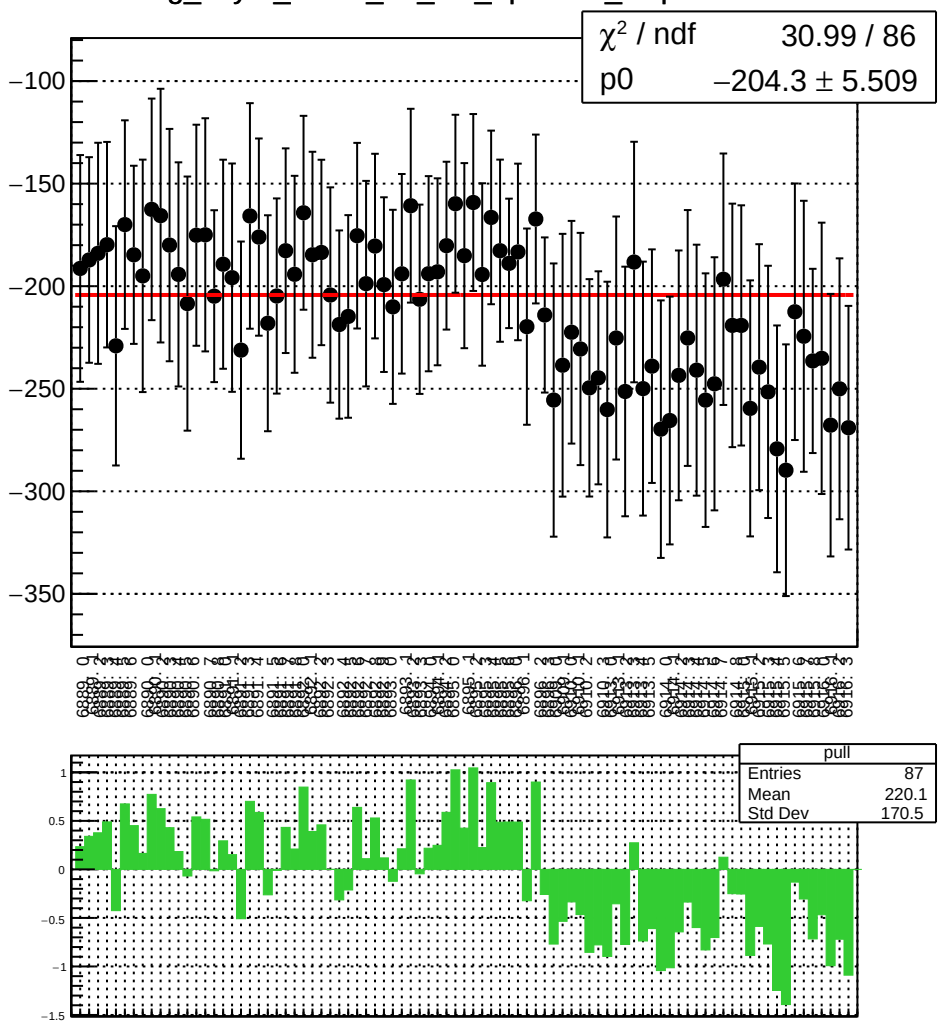

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 245.8 / 86
p0 −153.5 ± 0.2466
−145
−150
−155
−160
−165
pull
Entries 87
Mean 1173
Std Dev 1126
2
1
0
−1
−2
−3
pull1D
Entries 87
Mean −0.02957
Std Dev 1.681
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

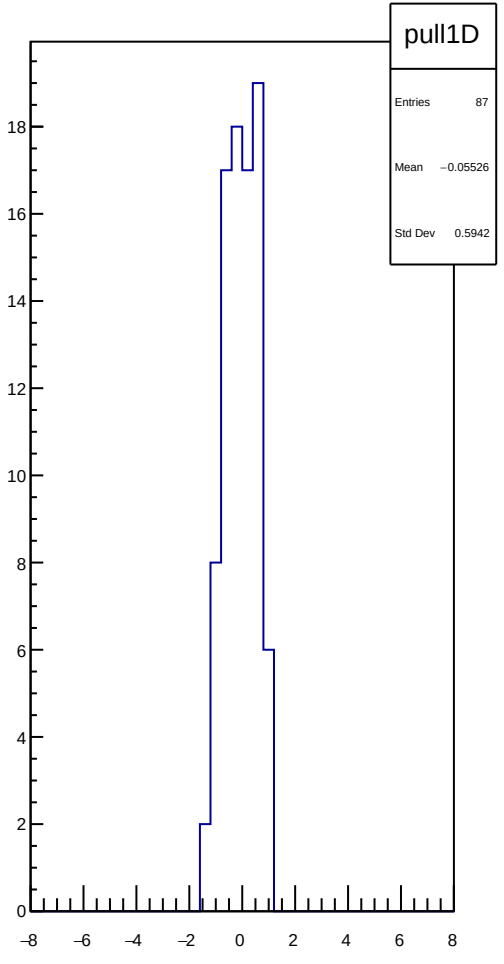

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 36.81 / 86
p0 218.5 ± 5.753
pull
Entries 87
Mean 196.9
Std Dev 146.9

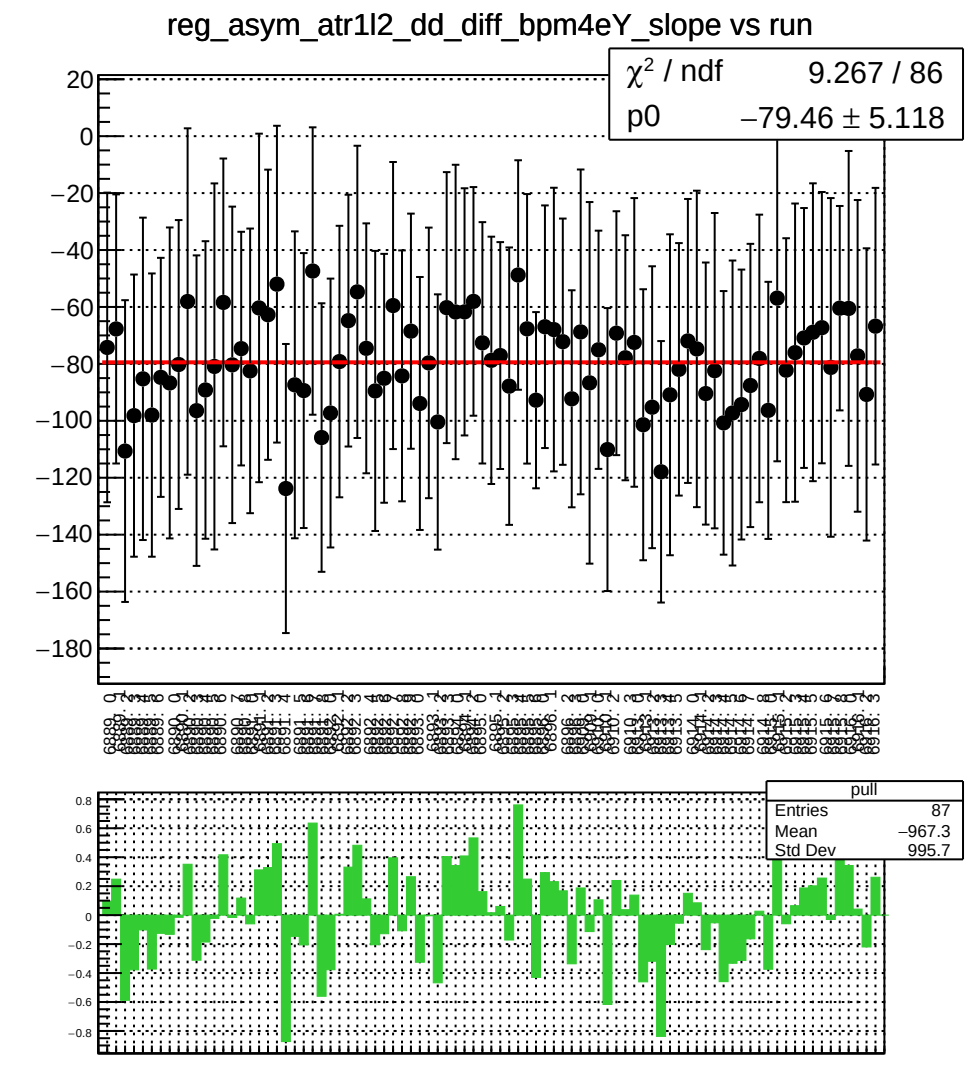

pull1D
Entries 87
Mean 0.07067
Std Dev 0.6466

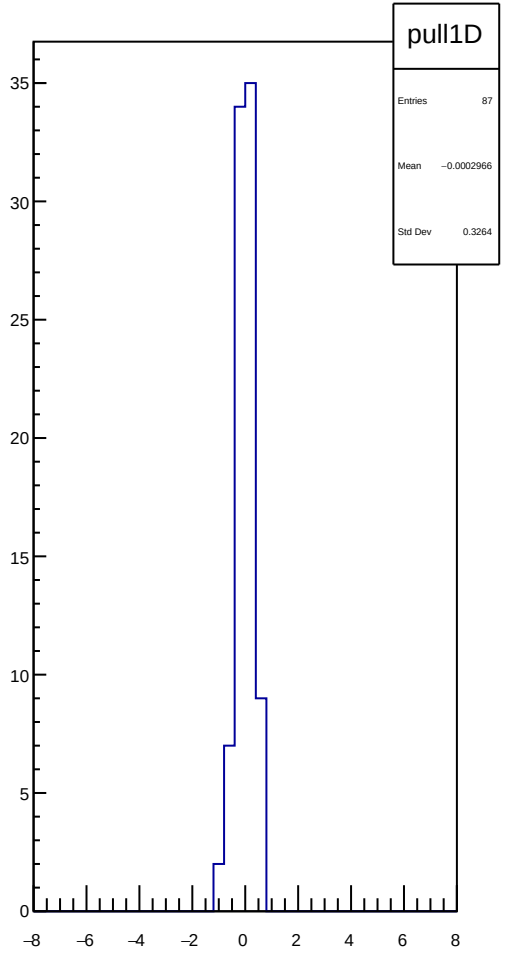

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.104 / 86
p0 3.638 ± 4.332
pull
Entries 87
Mean 337.5
Std Dev 293.3

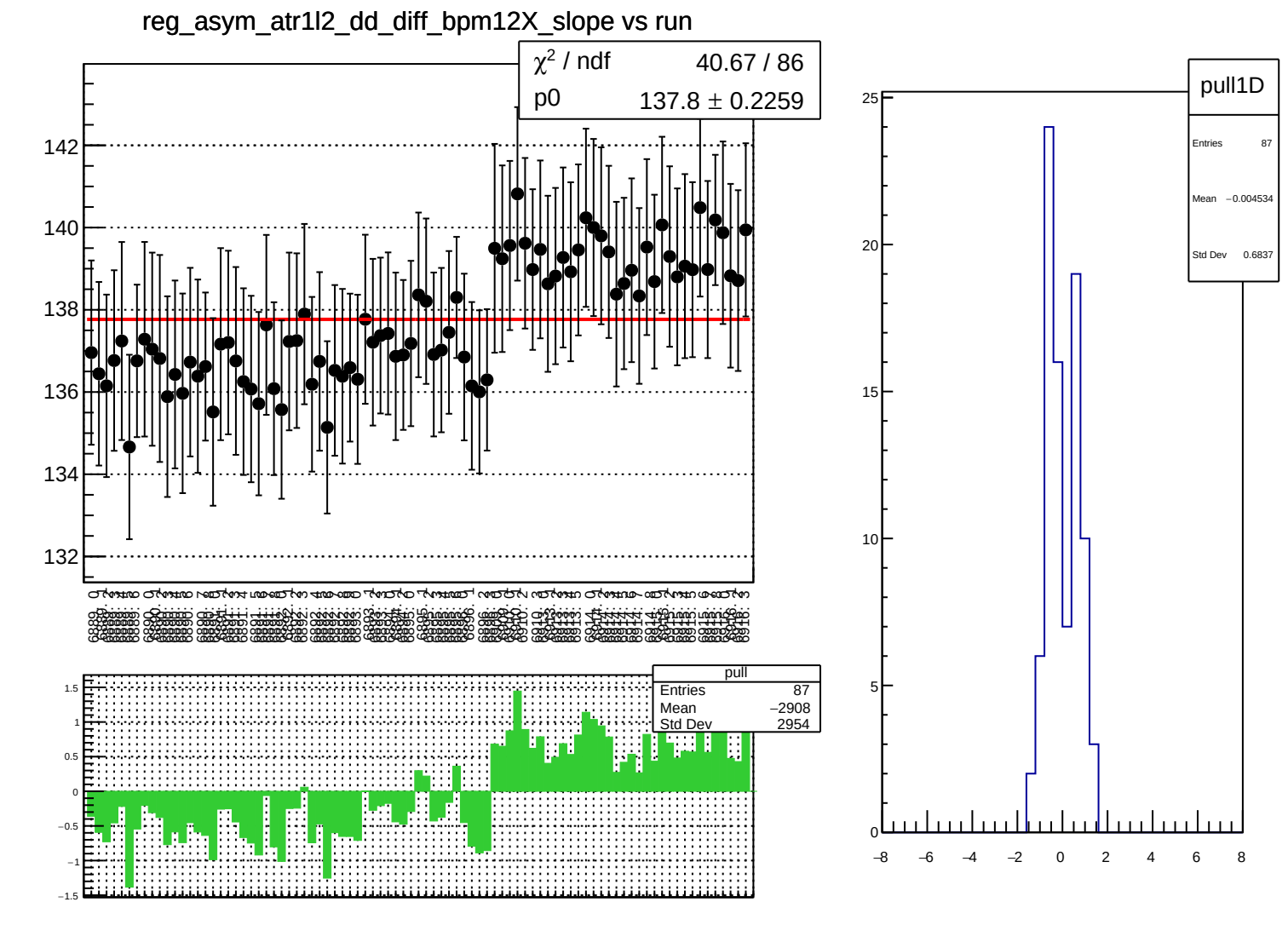

pull1D
Entries 87
Mean −0.004286
Std Dev 0.3235

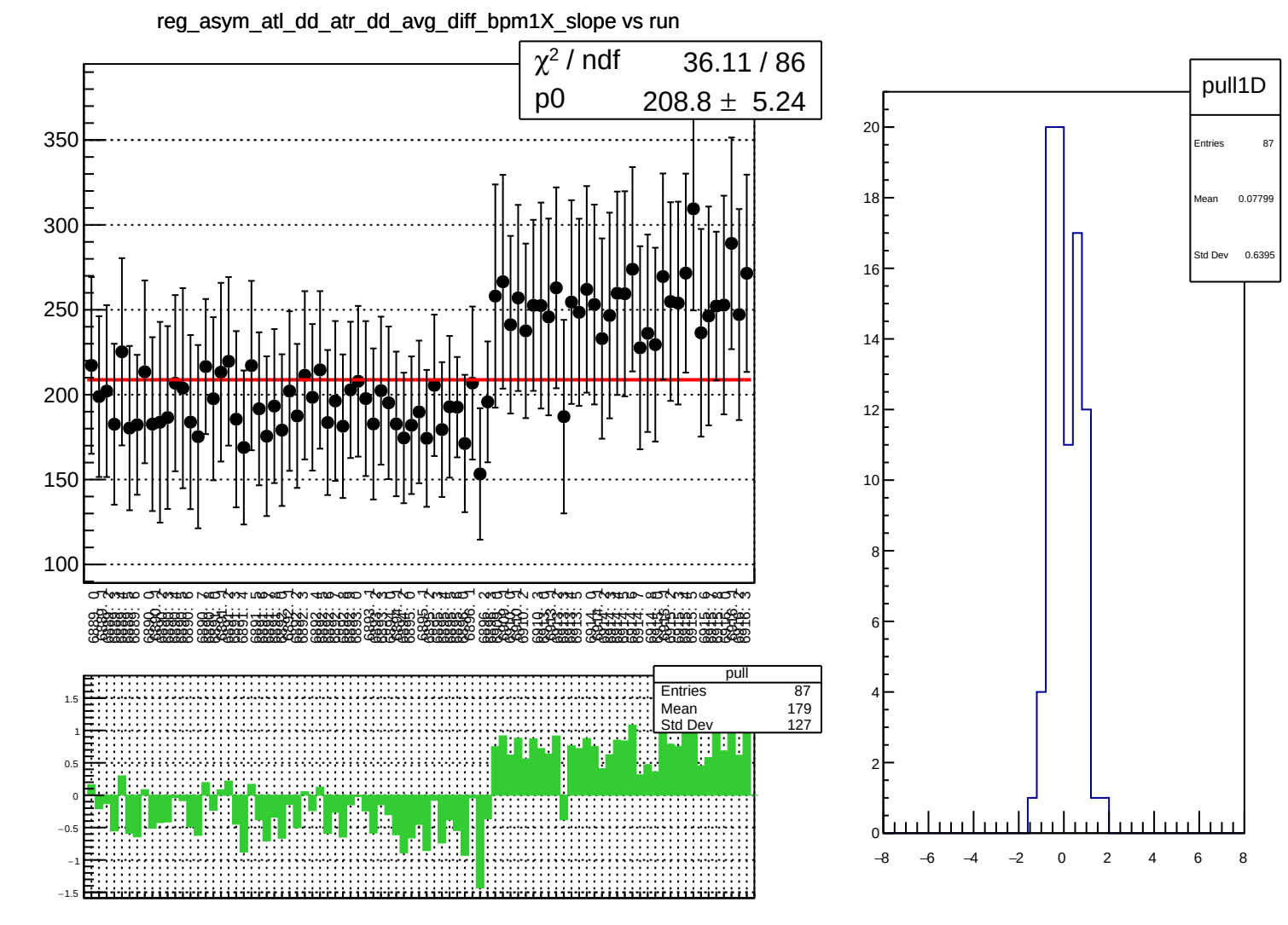

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.99 / 86
p0 −204.3 ± 5.509
pull
Entries 87
Mean 220.1
Std Dev 170.5

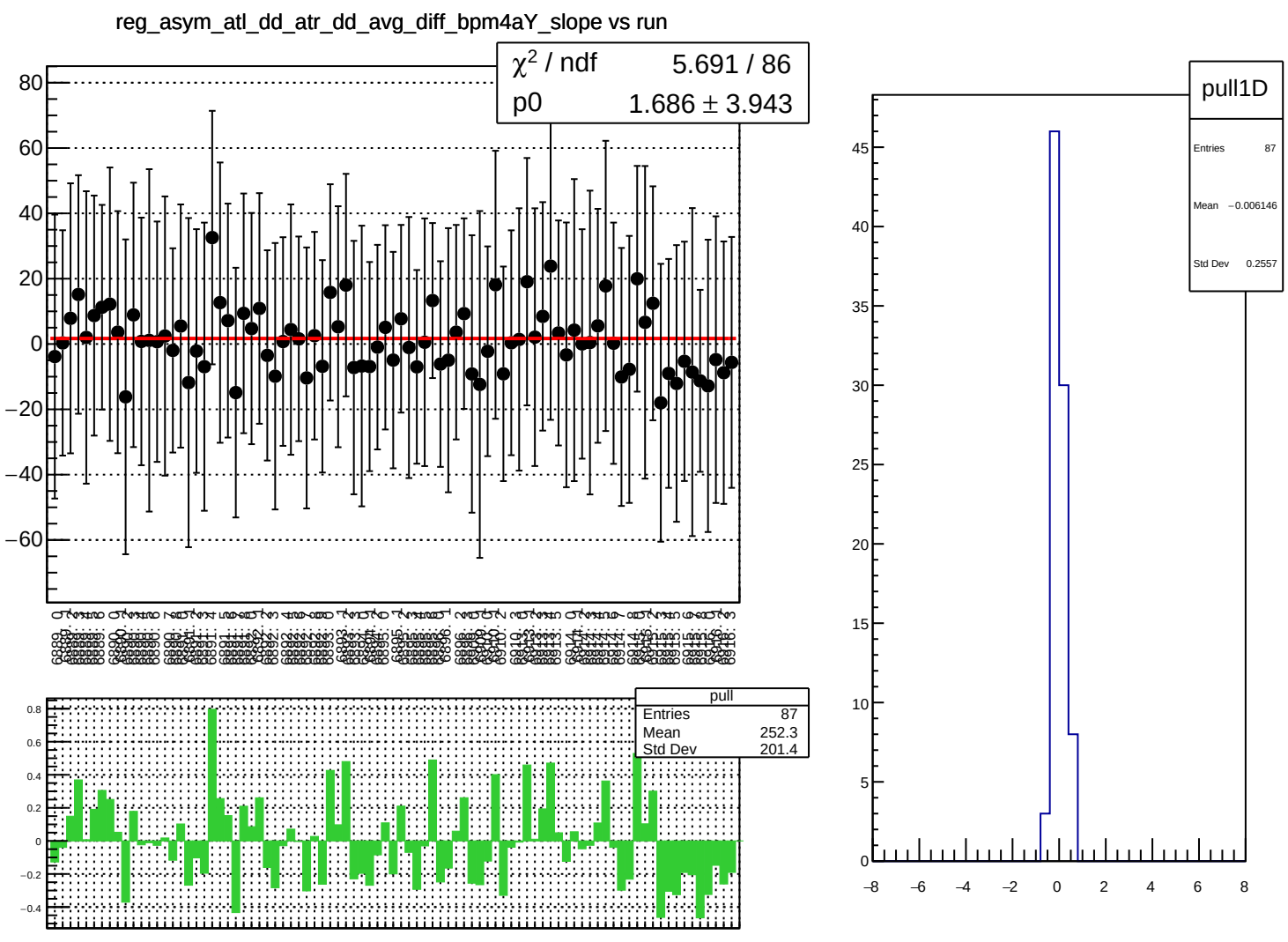

pull1D
Entries 87
Mean −0.05526
Std Dev 0.5942

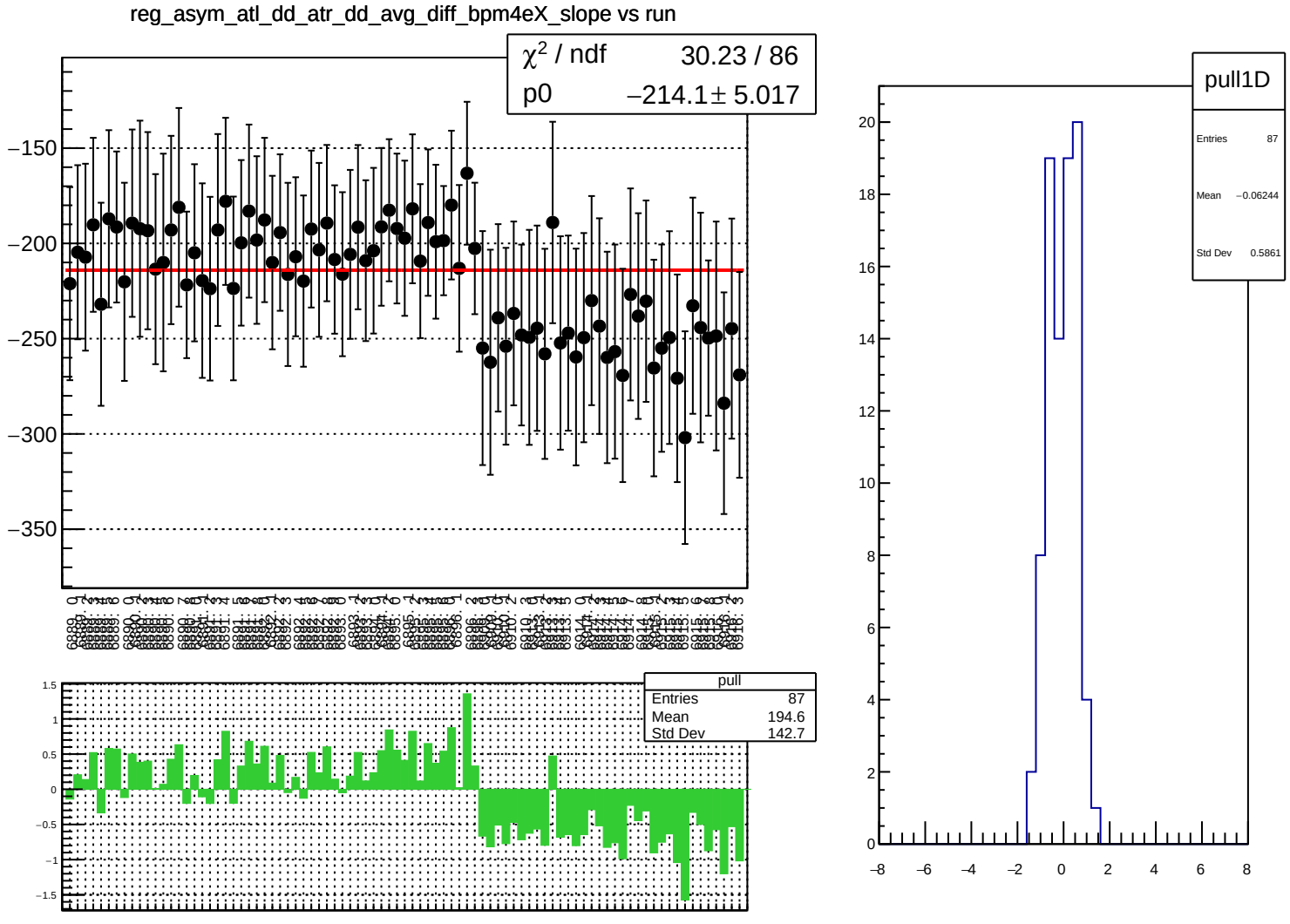

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.267 / 86
p0 −79.46 ± 5.118
pull
Entries 87
Mean −967.3
Std Dev 995.7

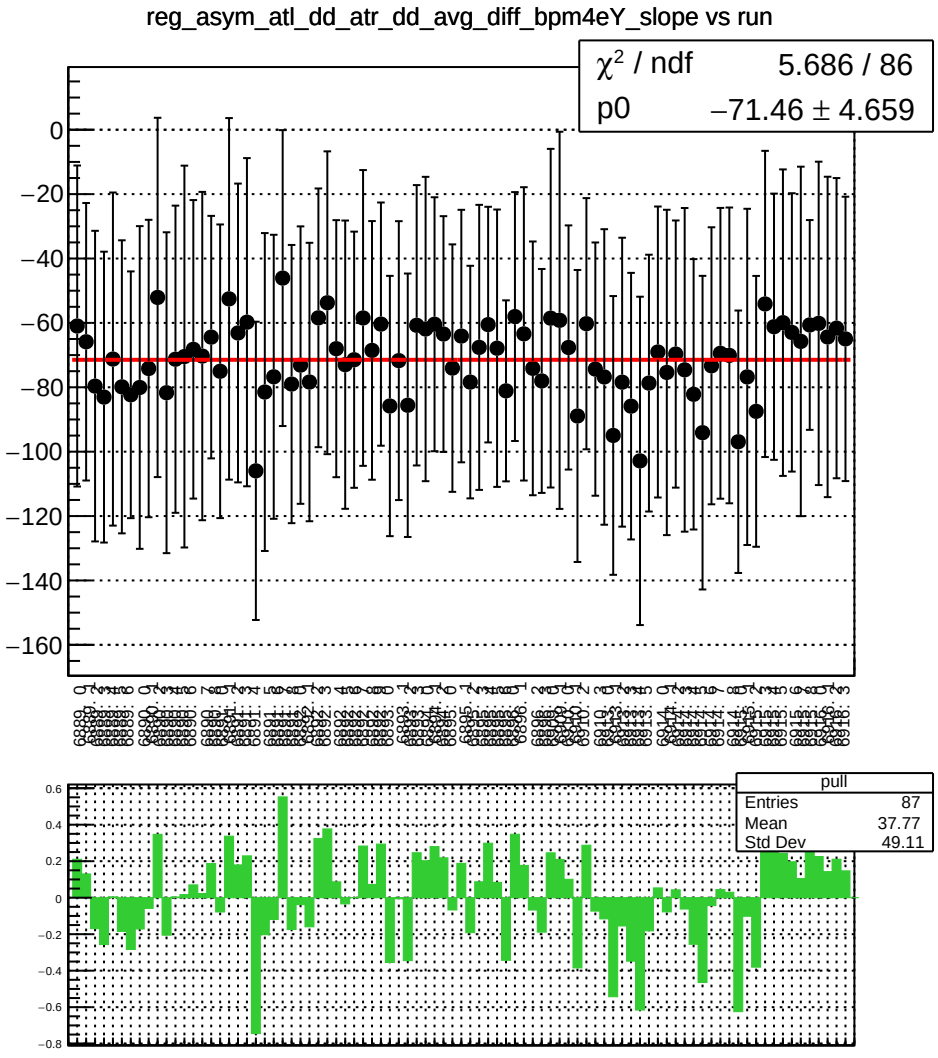

pull1D
Entries 87
Mean −0.0002966
Std Dev 0.3264

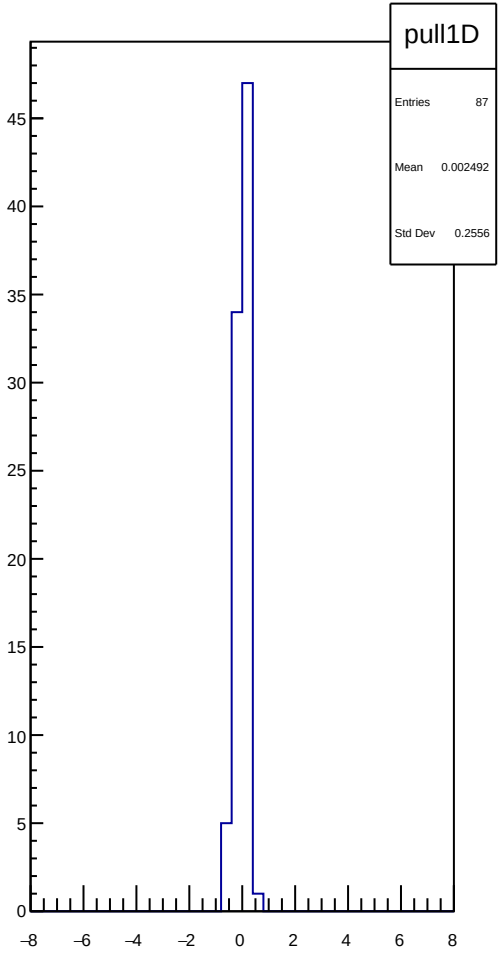

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 40.67 / 86
p0 137.8 ± 0.2259
142
140
138
136
134
132
pull
Entries 87
Mean −2908
Std Dev 2954
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean −0.004534
Std Dev 0.6837
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

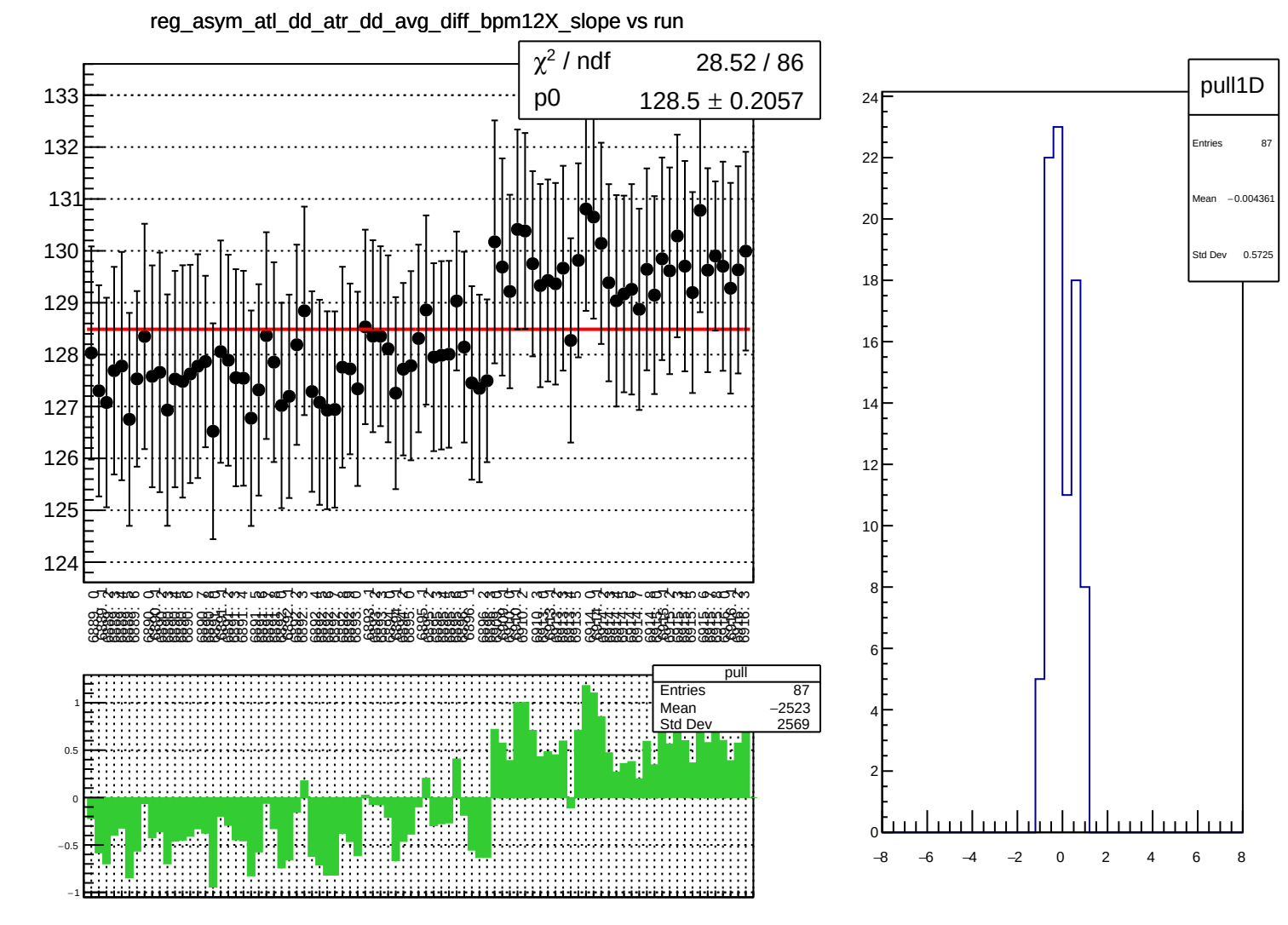

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 36.11 / 86
p0 208.8 ± 5.24
350
300
250
200
150
100
pull
Entries 87
Mean 179
Std Dev 127
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean 0.07799
Std Dev 0.6395
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

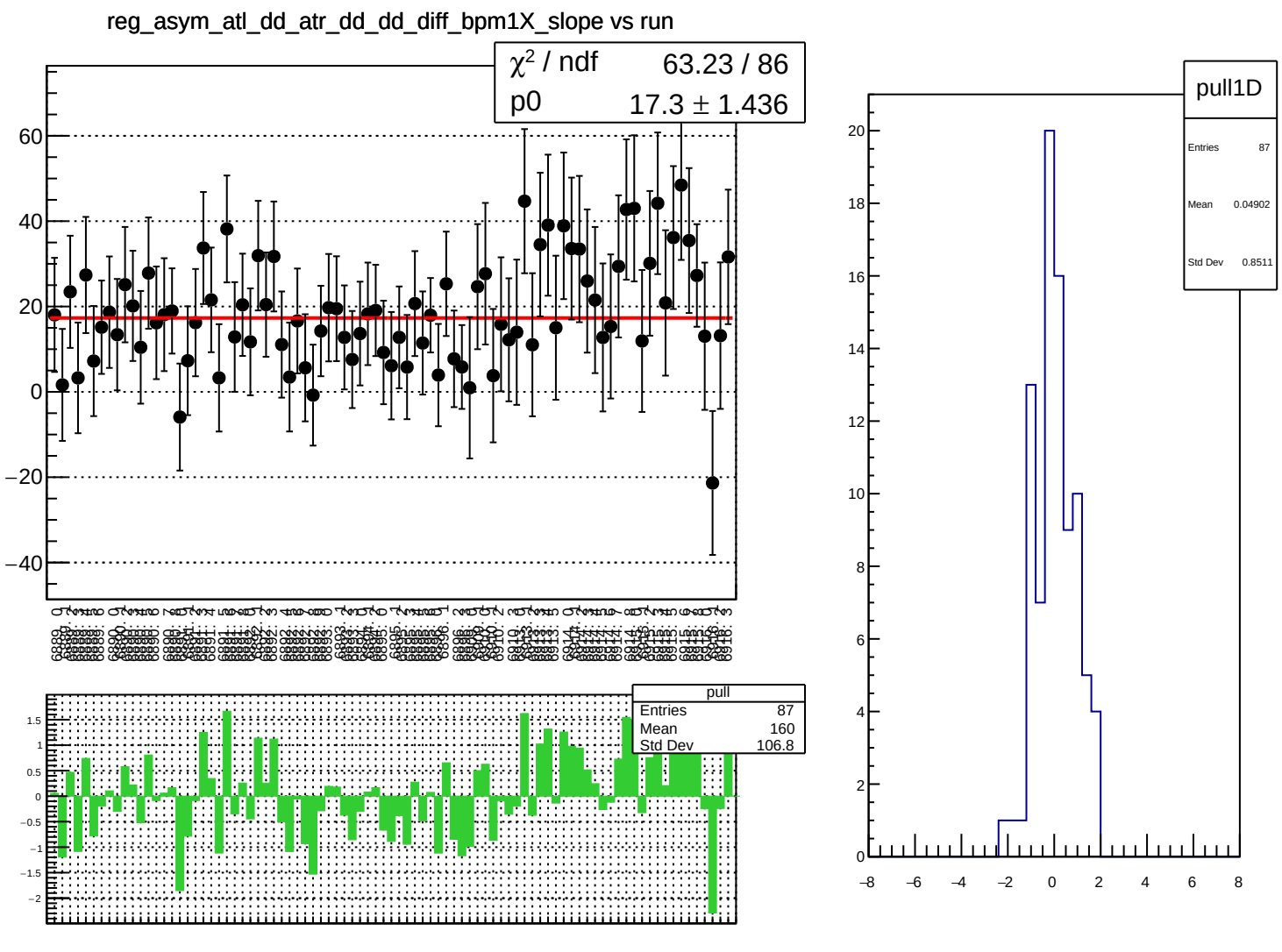

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.691 / 86
p0 1.686 ± 3.943
pull
Entries 87
Mean 252.3
Std Dev 201.4
pull1D
Entries 87
Mean −0.006146
Std Dev 0.2557

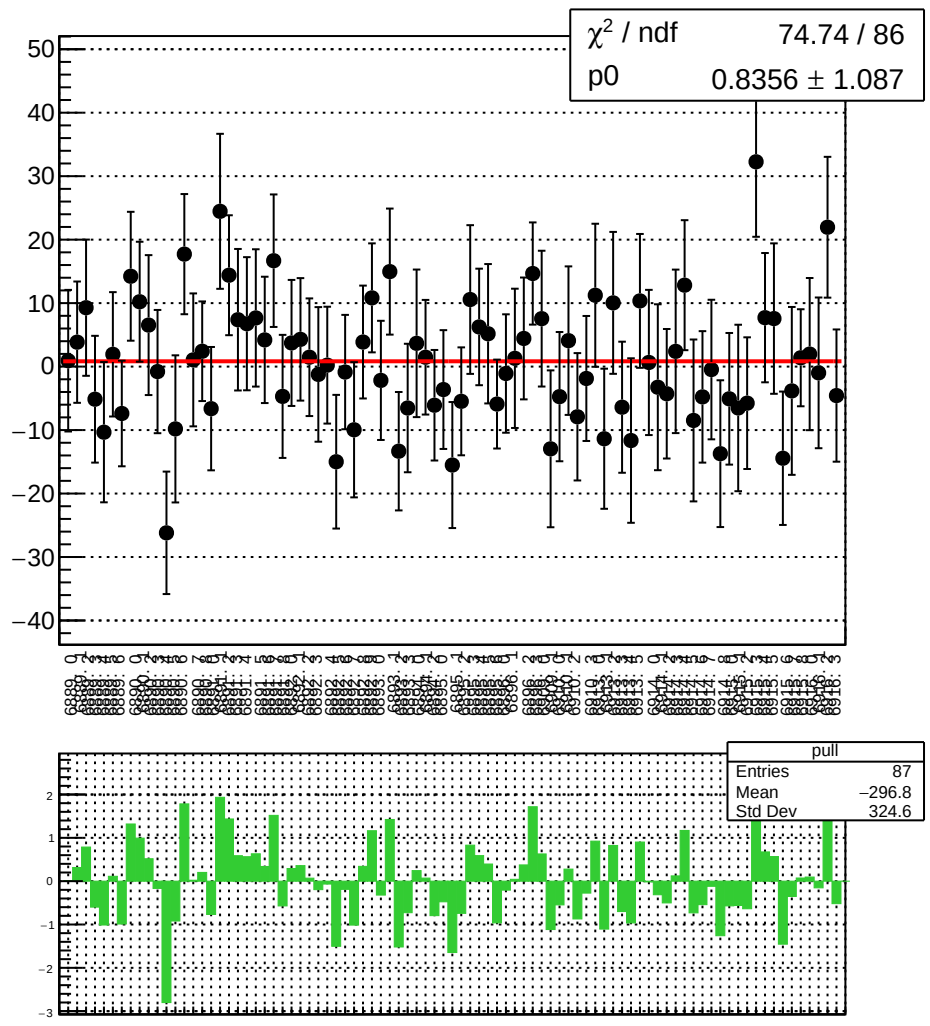

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.23 / 86
p0 −214.1 ± 5.017
−150
−200
−250
−300
−350
pull
Entries 87
Mean 194.6
Std Dev 142.7
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 87
Mean −0.06244
Std Dev 0.5861
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

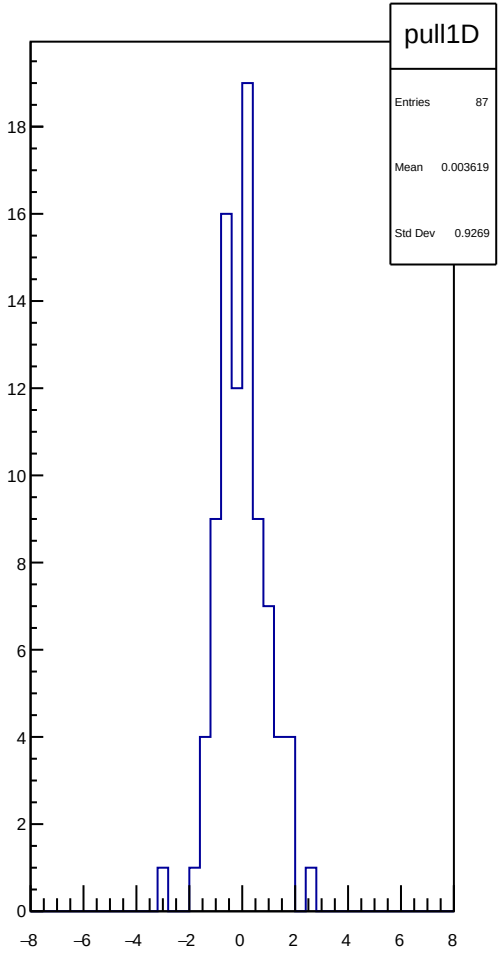

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.686 / 86
p0 −71.46 ± 4.659
pull
Entries 87
Mean 37.77
Std Dev 49.11

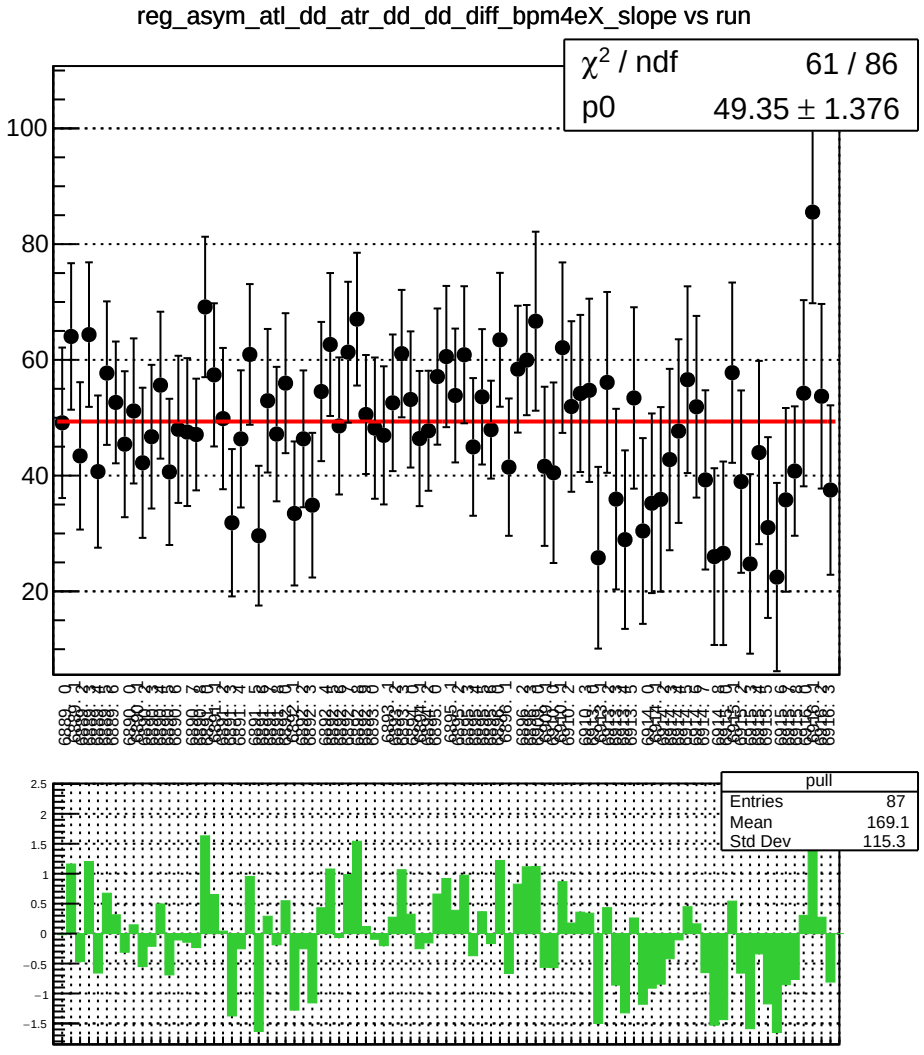

pull1D
Entries 87
Mean 0.002492
Std Dev 0.2556

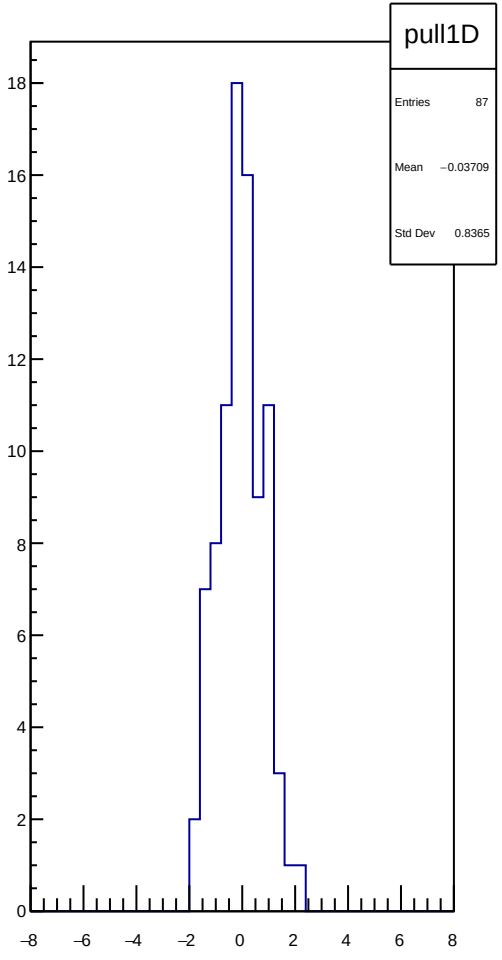

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 28.52 / 86
p0 128.5 ± 0.2057
pull
Entries 87
Mean −2523
Std Dev 2569
pull1D
Entries 87
Mean −0.004361
Std Dev 0.5725

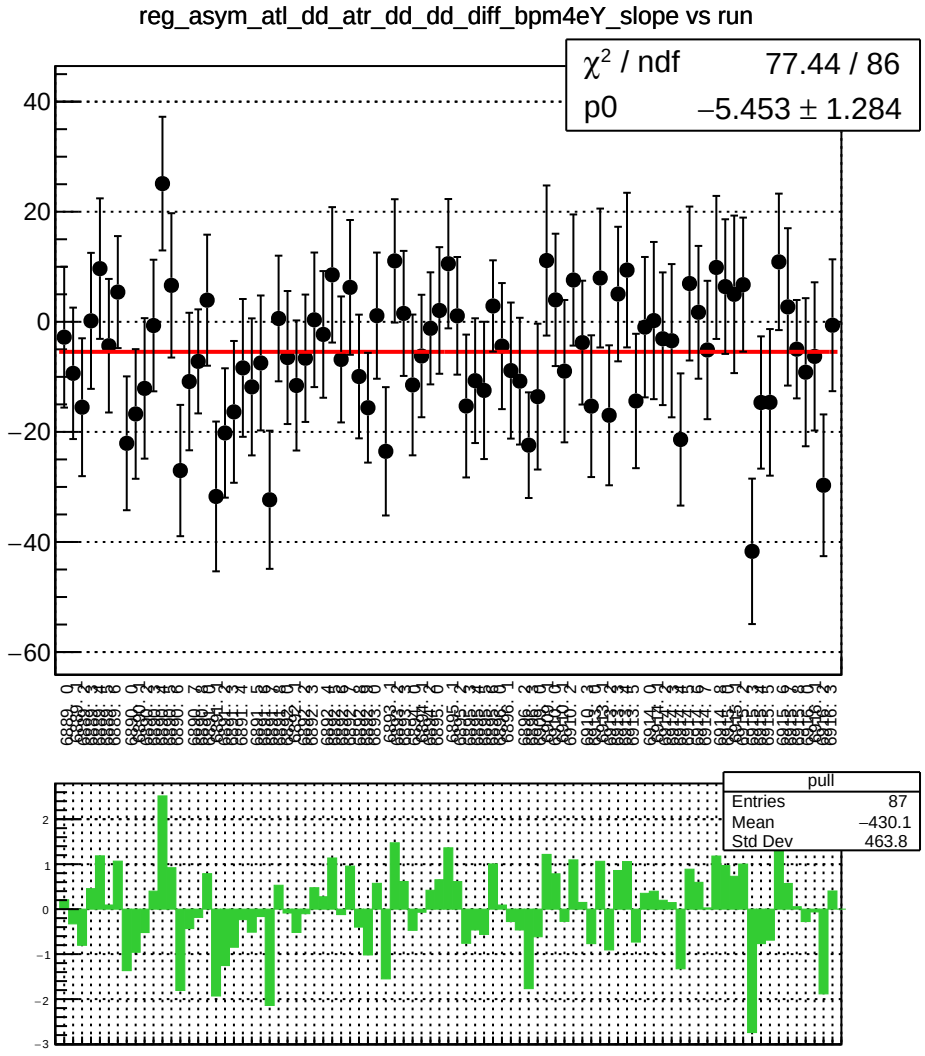

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 63.23 / 86
p0 17.3 ± 1.436
pull
Entries 87
Mean 160
Std Dev 106.8
pull1D
Entries 87
Mean 0.04902
Std Dev 0.8511

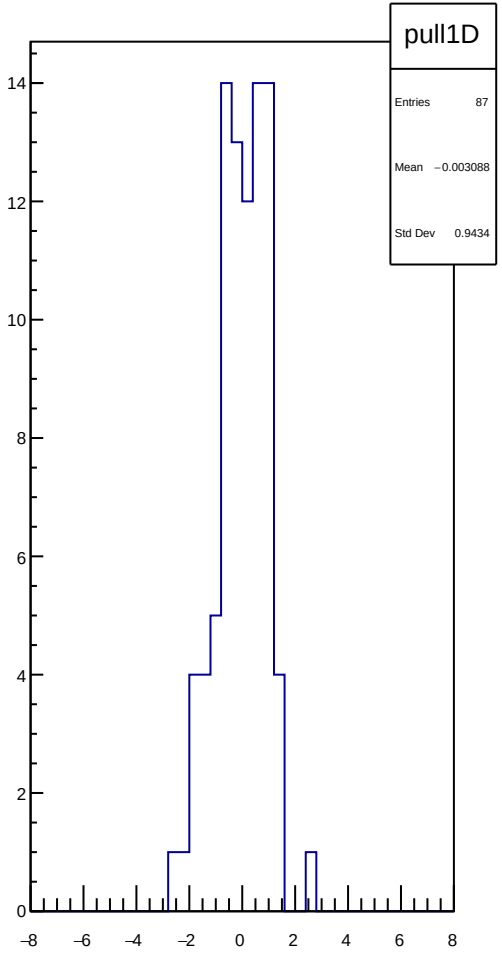

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 74.74 / 86
p0 0.8356 ± 1.087
pull
Entries 87
Mean −296.8
Std Dev 324.6

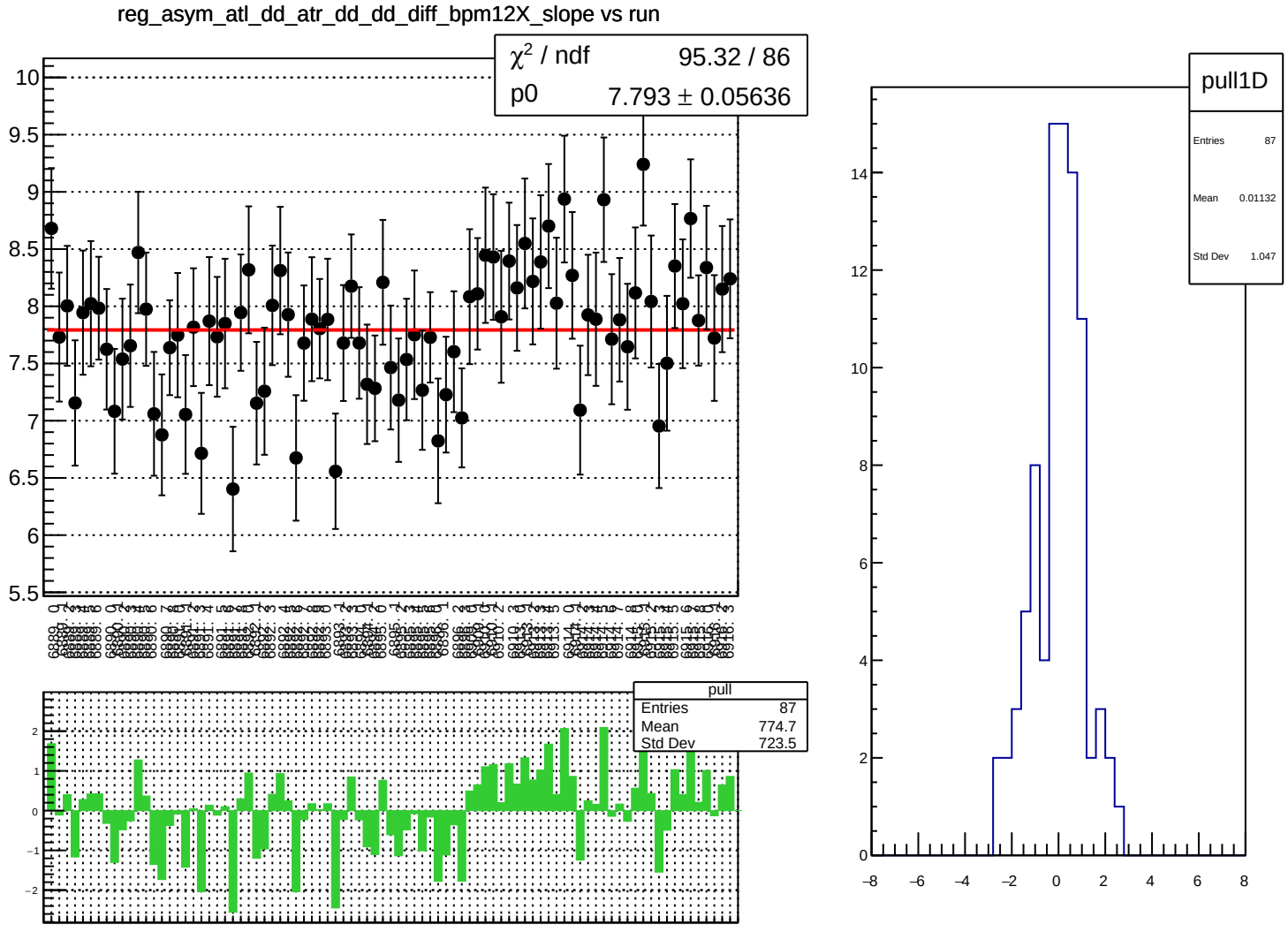

pull1D
Entries 87
Mean 0.003619
Std Dev 0.9269

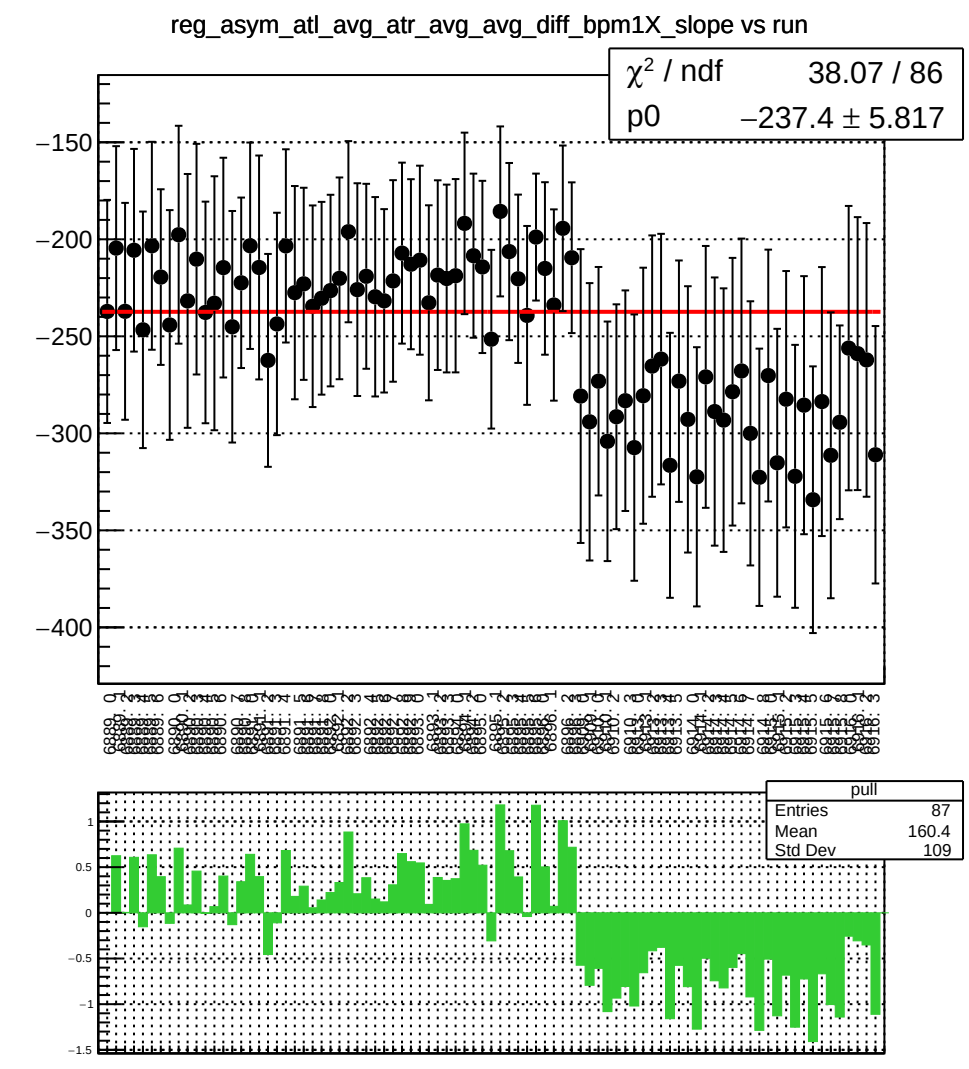

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 61 / 86
p0 49.35 ± 1.376
pull
Entries 87
Mean 169.1
Std Dev 115.3

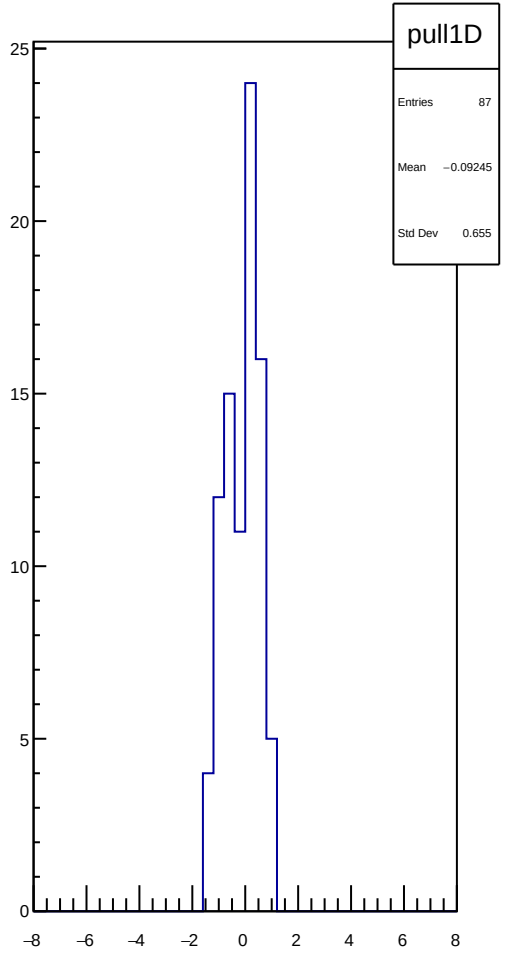

pull1D
Entries 87
Mean −0.03709
Std Dev 0.8365

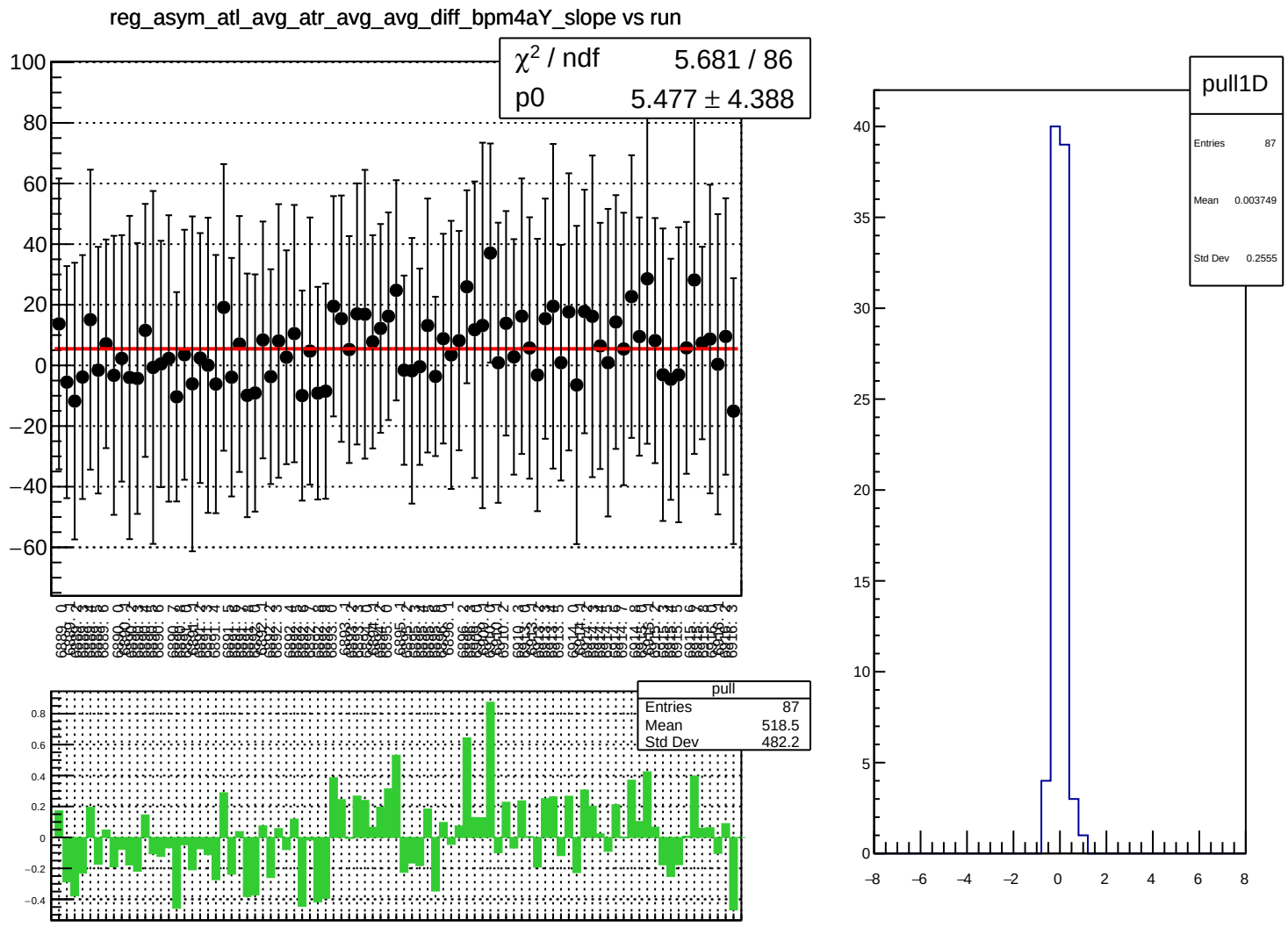

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.44 / 86
p0 −5.453 ± 1.284
pull
Entries 87
Mean −430.1
Std Dev 463.8

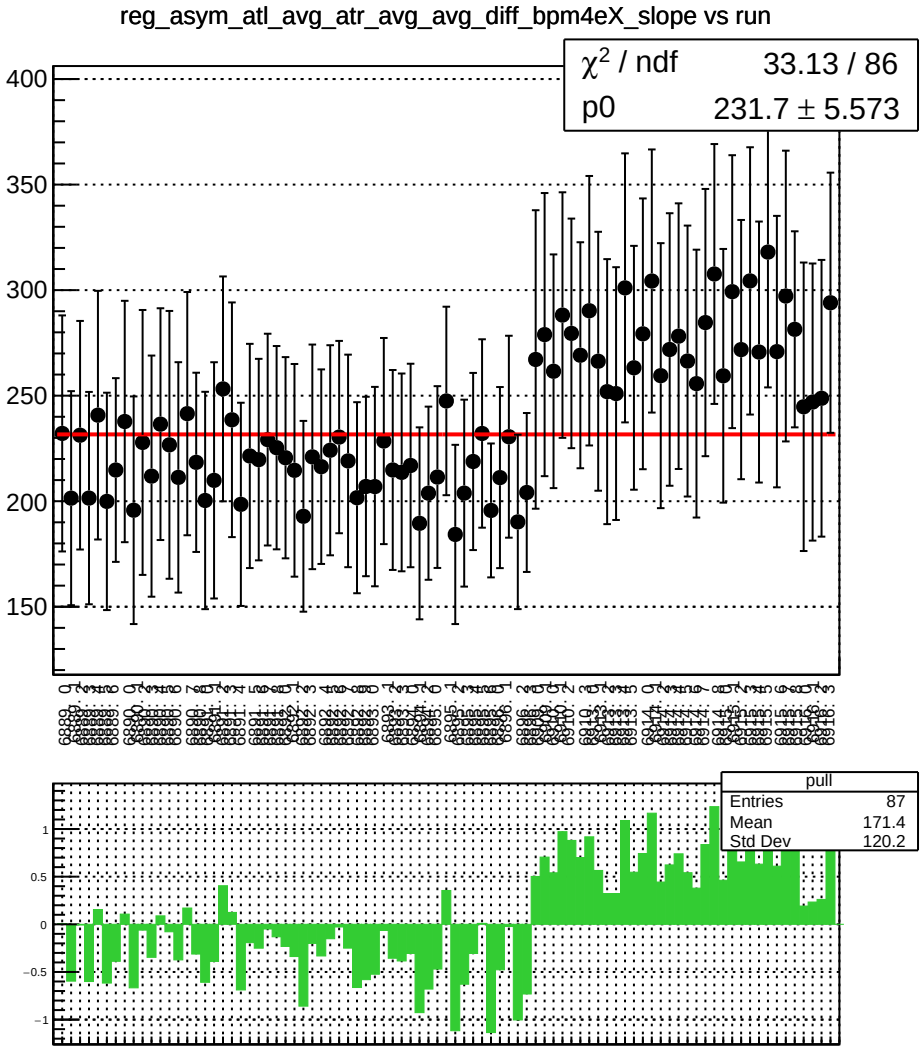

pull1D
Entries 87
Mean −0.003088
Std Dev 0.9434

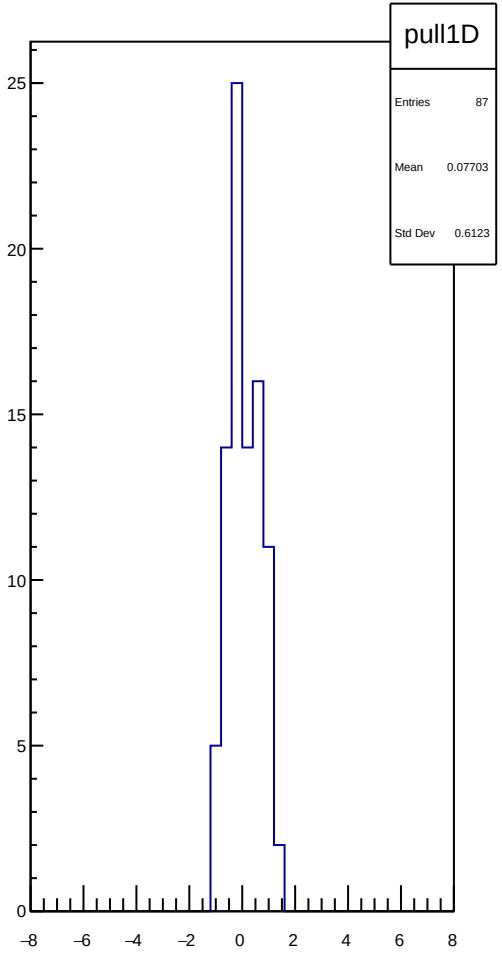

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 95.32 / 86
p0 7.793 ± 0.05636
pull
Entries 87
Mean 774.7
Std Dev 723.5
pull1D
Entries 87
Mean 0.01132
Std Dev 1.047

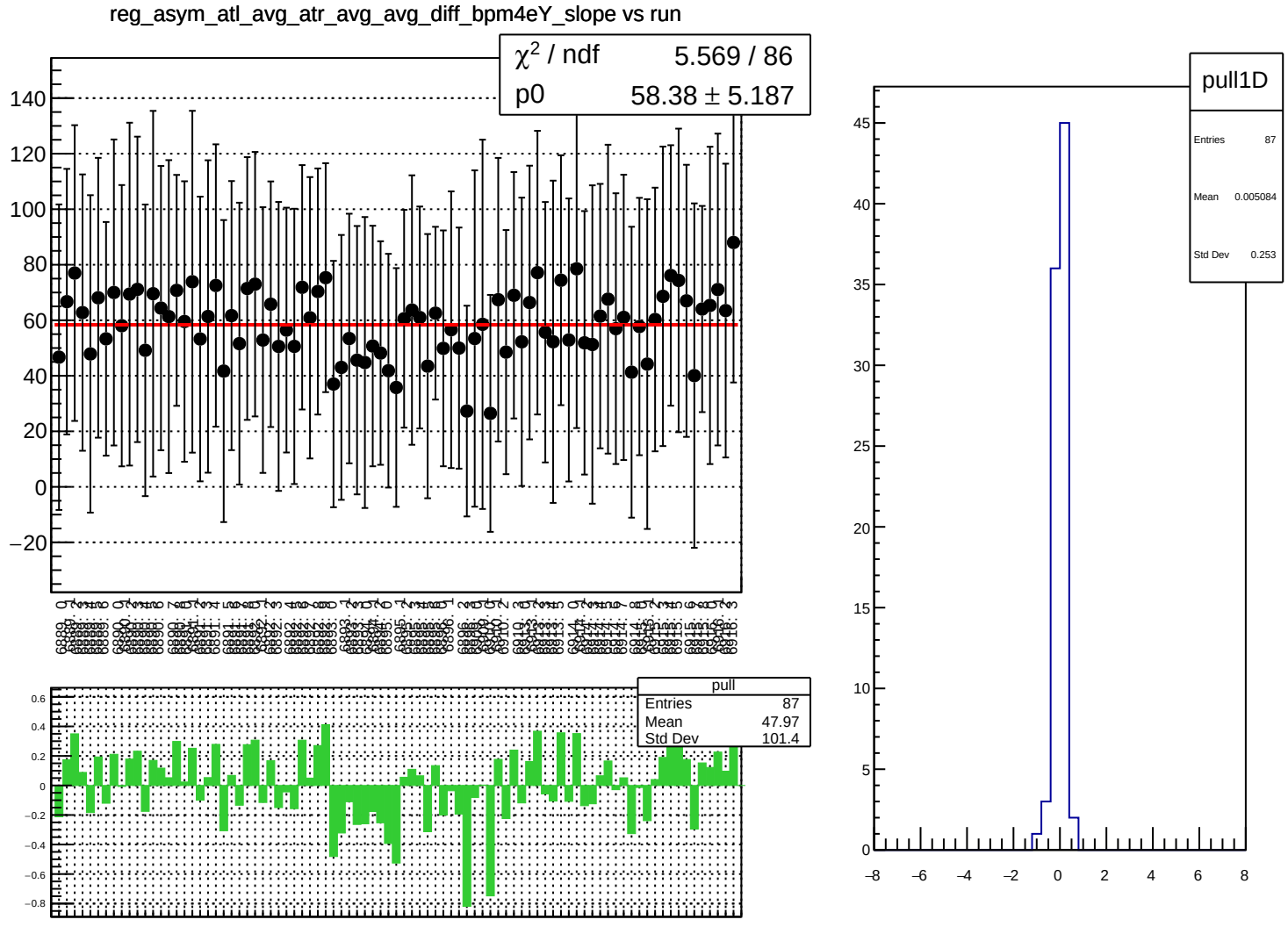

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 38.07 / 86
p0 −237.4 ± 5.817
−150
−200
−250
−300
−350
−400
pull
Entries 87
Mean 160.4
Std Dev 109
1
0.5
0
−0.5
−1
−1.5

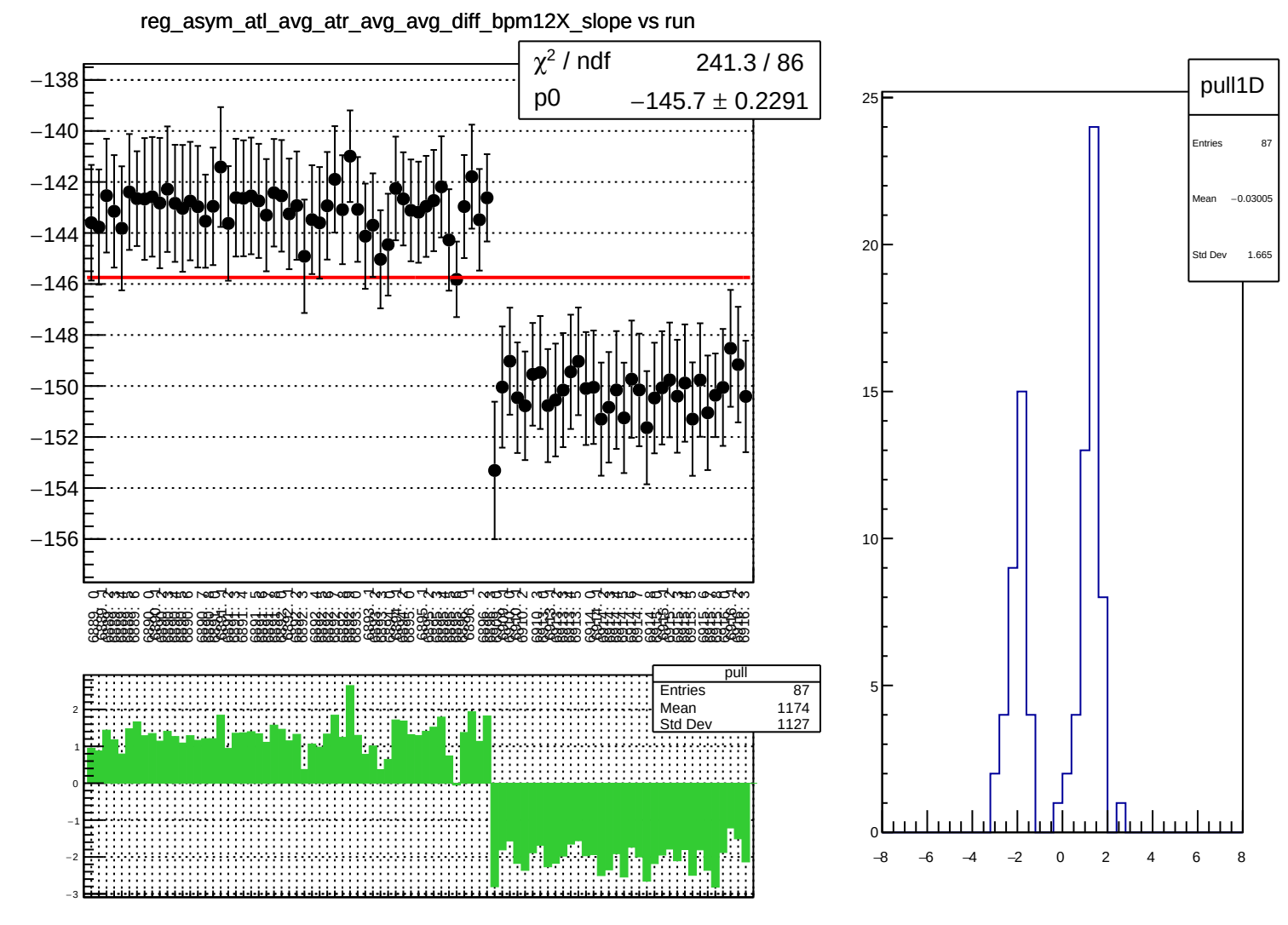

pull1D
Entries 87
Mean −0.09245
Std Dev 0.655
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

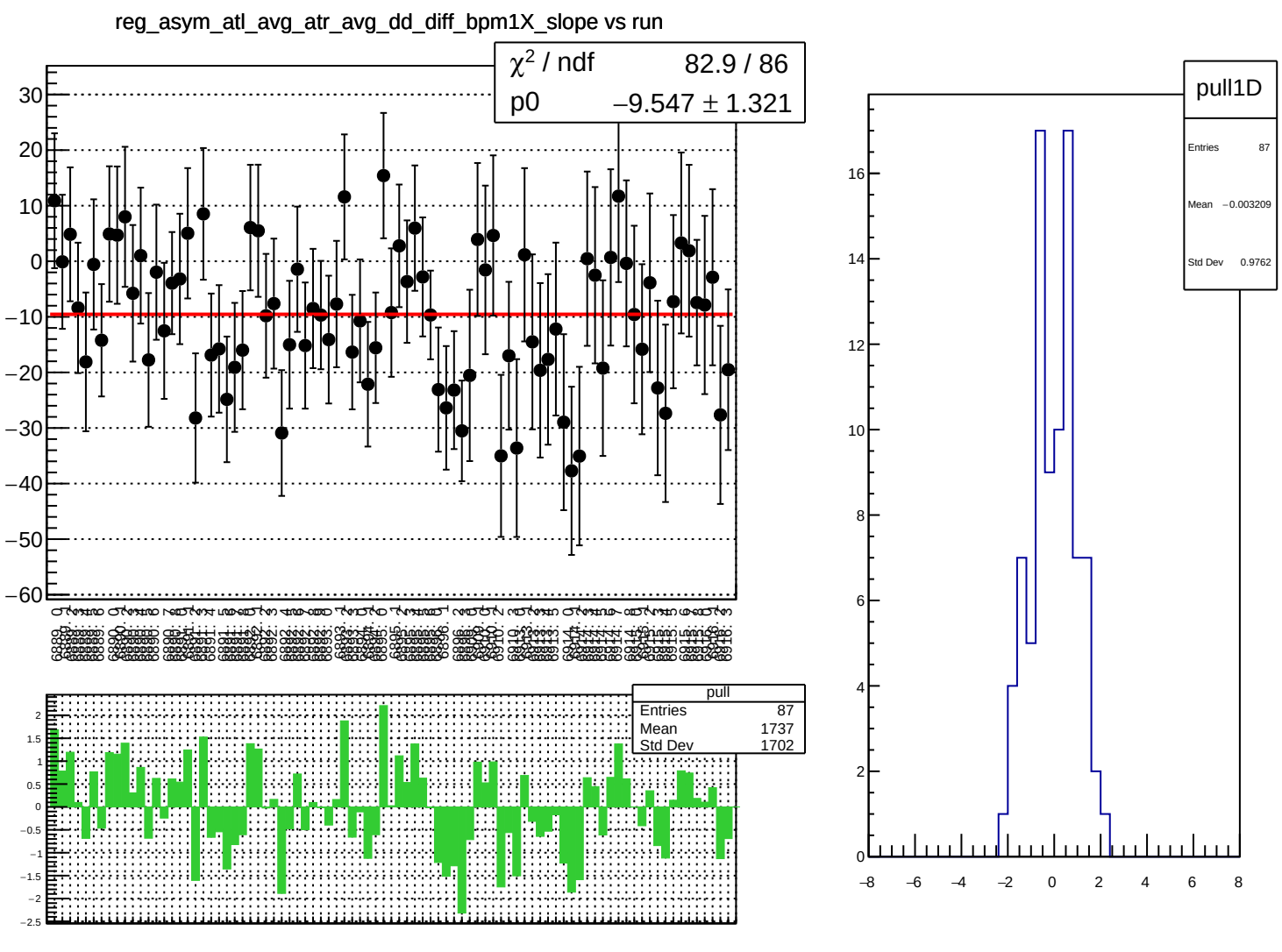

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.681 / 86
p0 5.477 ± 4.388
pull
Entries 87
Mean 518.5
Std Dev 482.2
pull1D
Entries 87
Mean 0.003749
Std Dev 0.2555

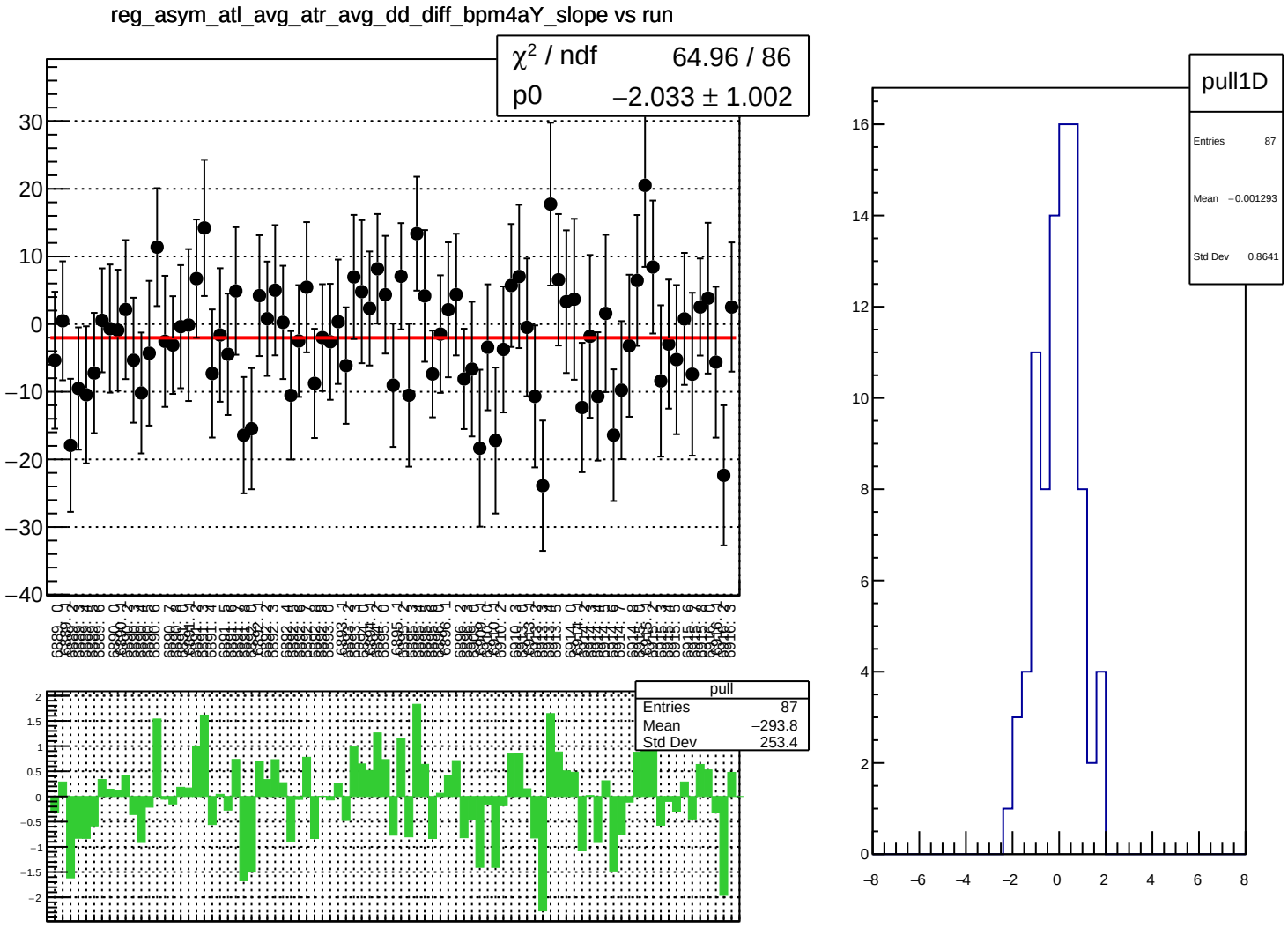

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.13 / 86
p0 231.7 ± 5.573
400
350
300
250
200
150
pull
Entries 87
Mean 171.4
Std Dev 120.2
1
0.5
0
−0.5
−1

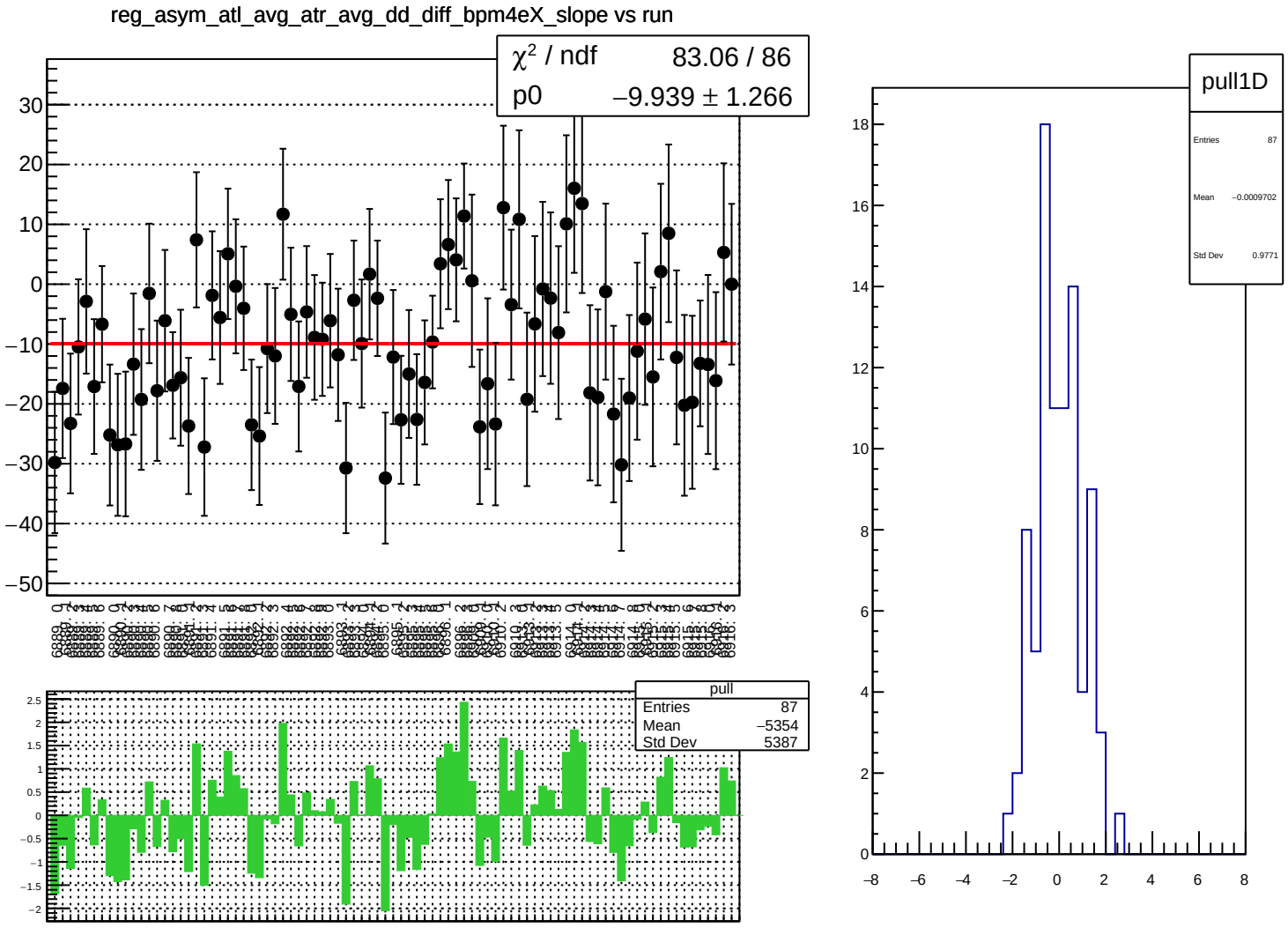

pull1D
Entries 87
Mean 0.07703
Std Dev 0.6123
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

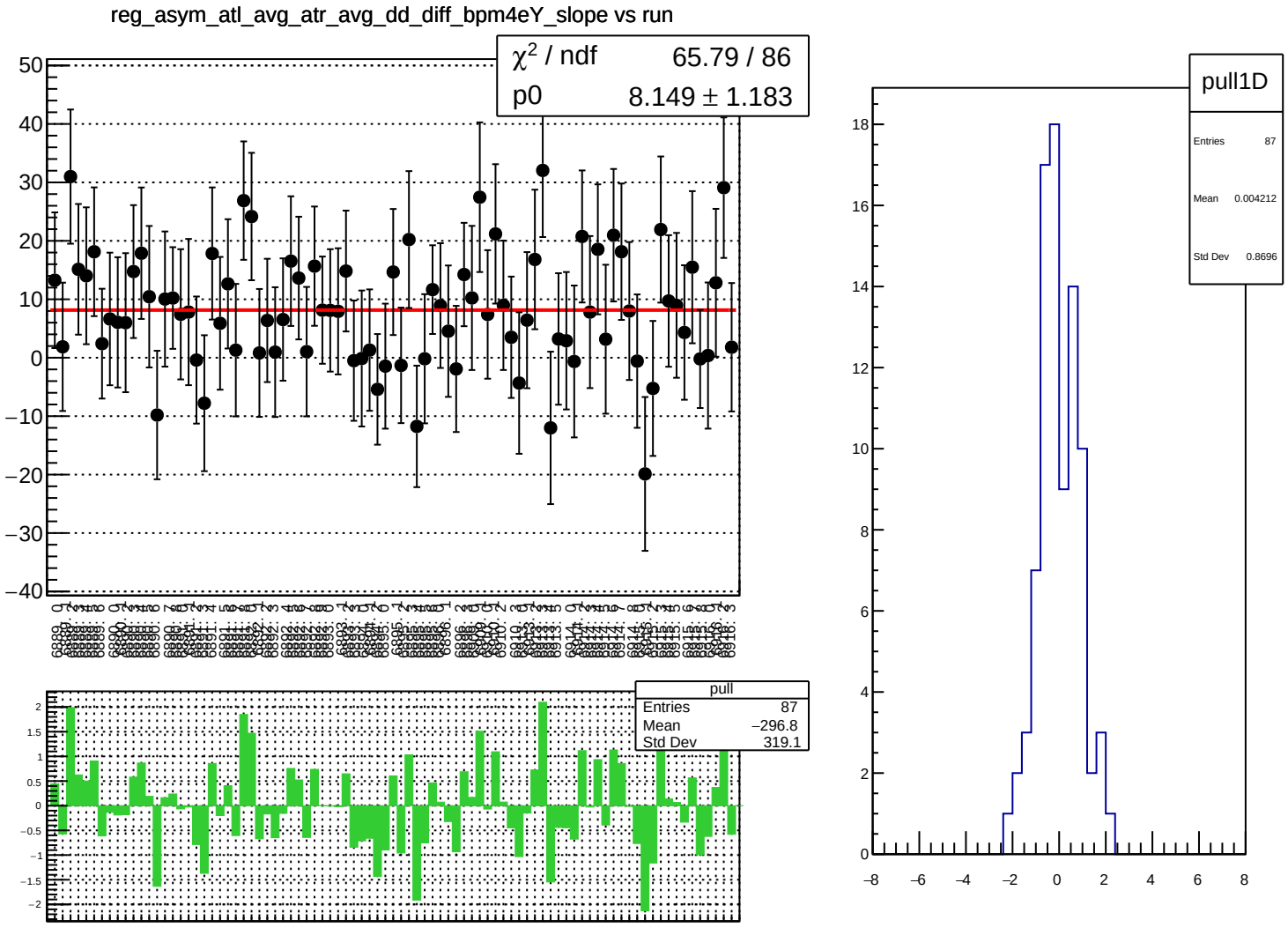

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.569 / 86
p0 58.38 ± 5.187
pull
Entries 87
Mean 47.97
Std Dev 101.4
pull1D
Entries 87
Mean 0.005084
Std Dev 0.253

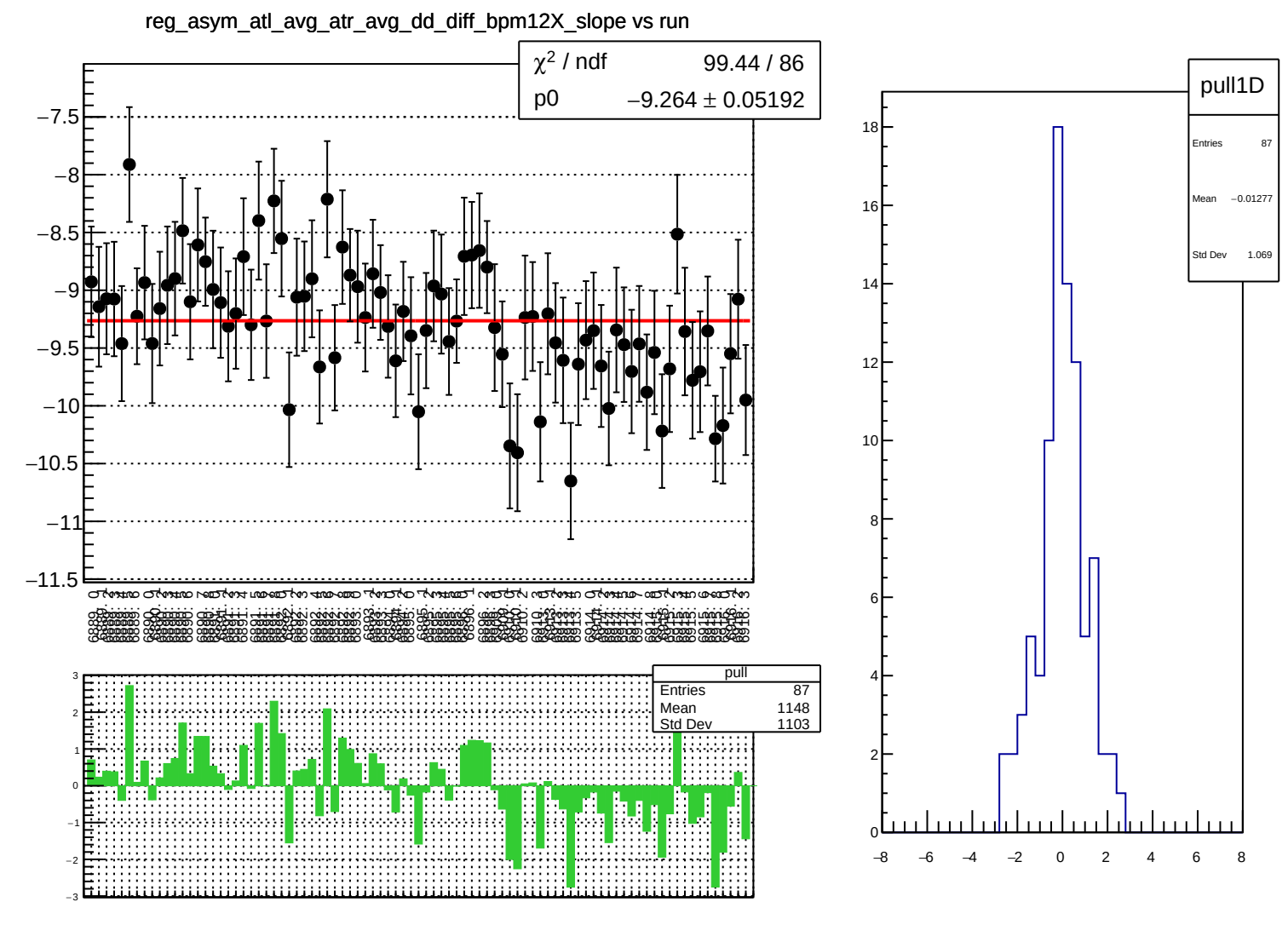

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 241.3 / 86
p0 −145.7 ± 0.2291
pull
Entries 87
Mean 1174
Std Dev 1127
pull1D
Entries 87
Mean −0.03005
Std Dev 1.665

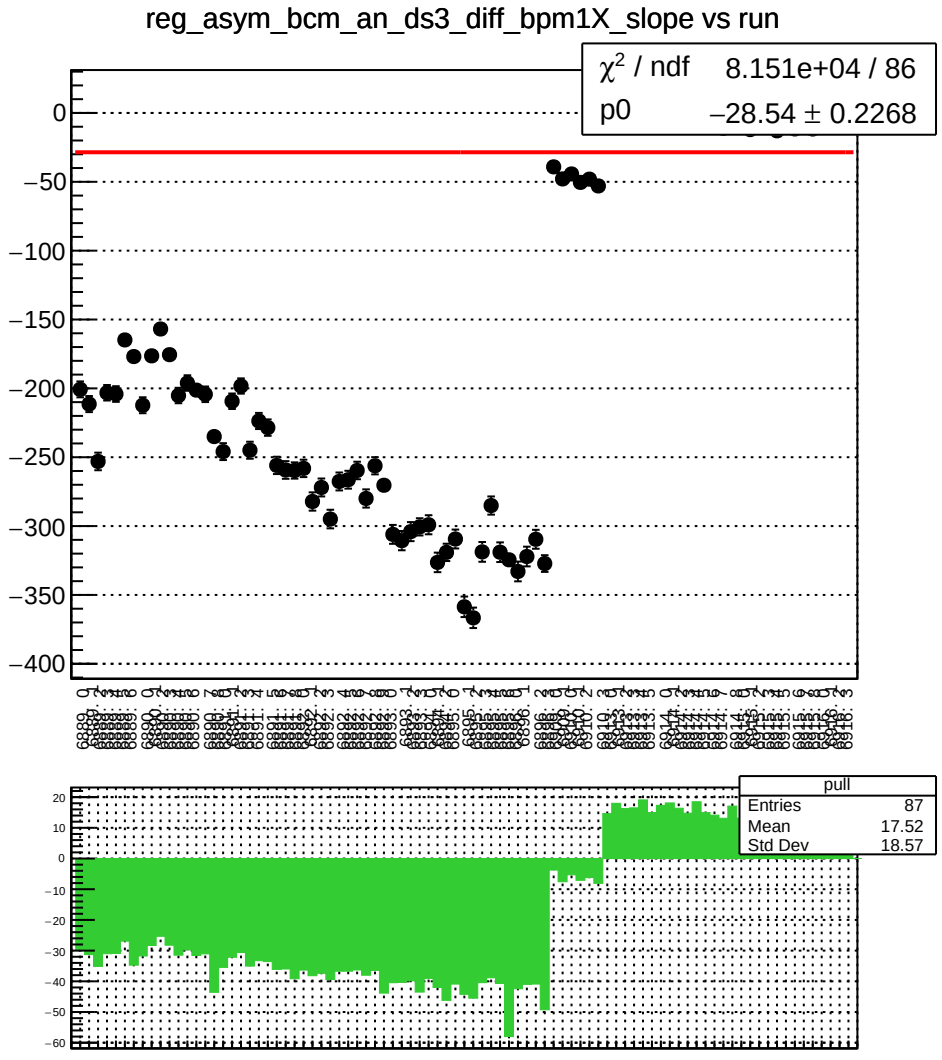

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 82.9 / 86
p0 −9.547 ± 1.321
pull
Entries 87
Mean 1737
Std Dev 1702
pull1D
Entries 87
Mean −0.003209
Std Dev 0.9762

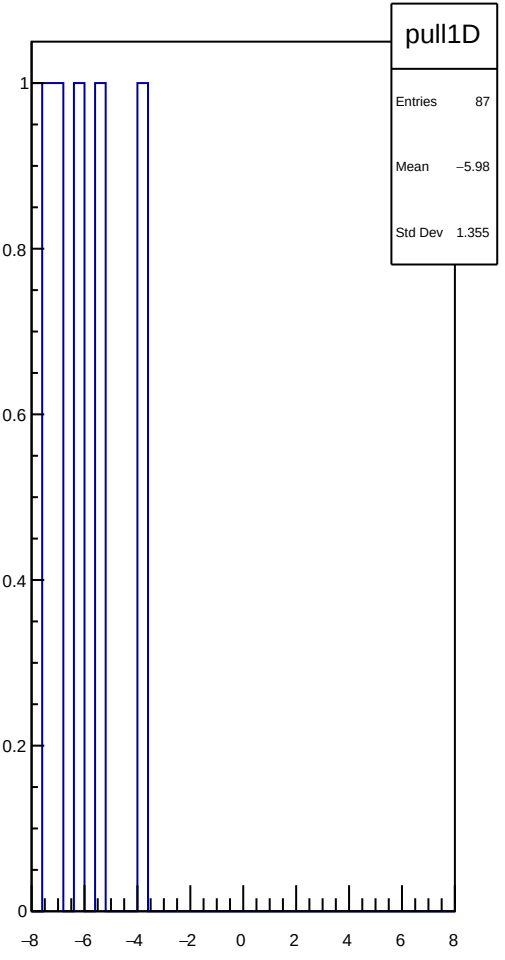

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.96 / 86
p0 −2.033 ± 1.002
pull
Entries 87
Mean −293.8
Std Dev 253.4
pull1D
Entries 87
Mean −0.001293
Std Dev 0.8641

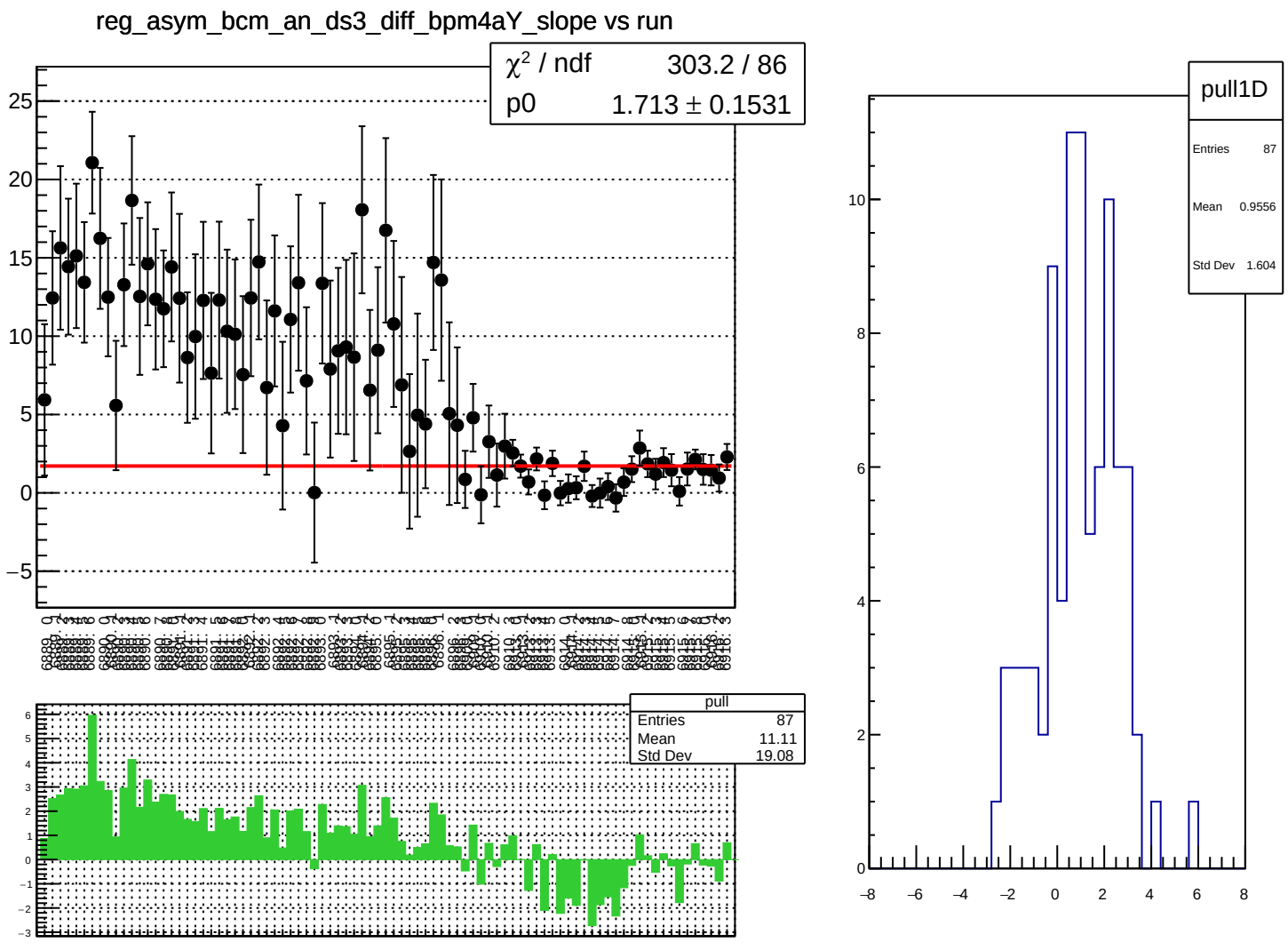

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 83.06 / 86
p0 −9.939 ± 1.266
pull
Entries 87
Mean −5354
Std Dev 5387
pull1D
Entries 87
Mean −0.0009702
Std Dev 0.9771

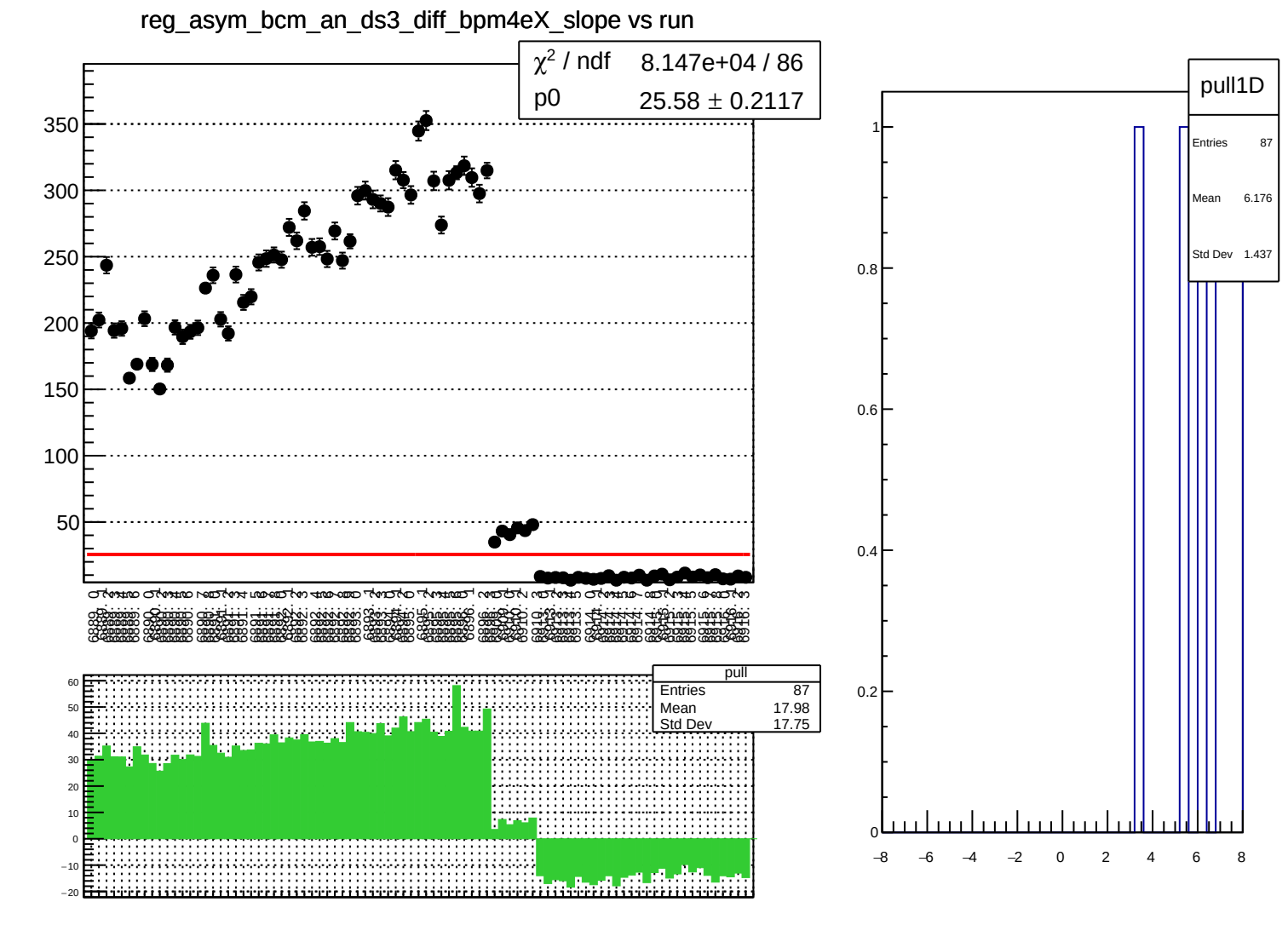

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.79 / 86
p0 8.149 ± 1.183
pull
Entries 87
Mean −296.8
Std Dev 319.1
pull1D
Entries 87
Mean 0.004212
Std Dev 0.8696

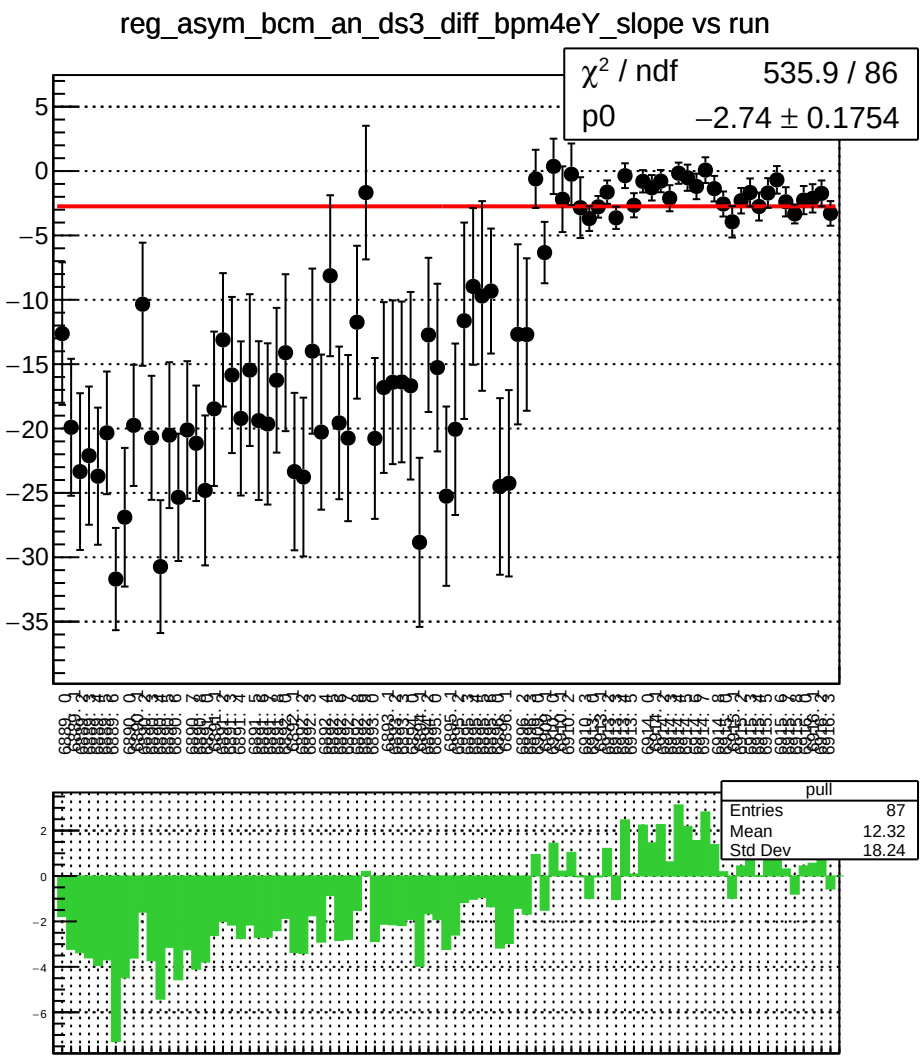

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 99.44 / 86
p0 −9.264 ± 0.05192
pull
Entries 87
Mean 1148
Std Dev 1103
pull1D
Entries 87
Mean −0.01277
Std Dev 1.069

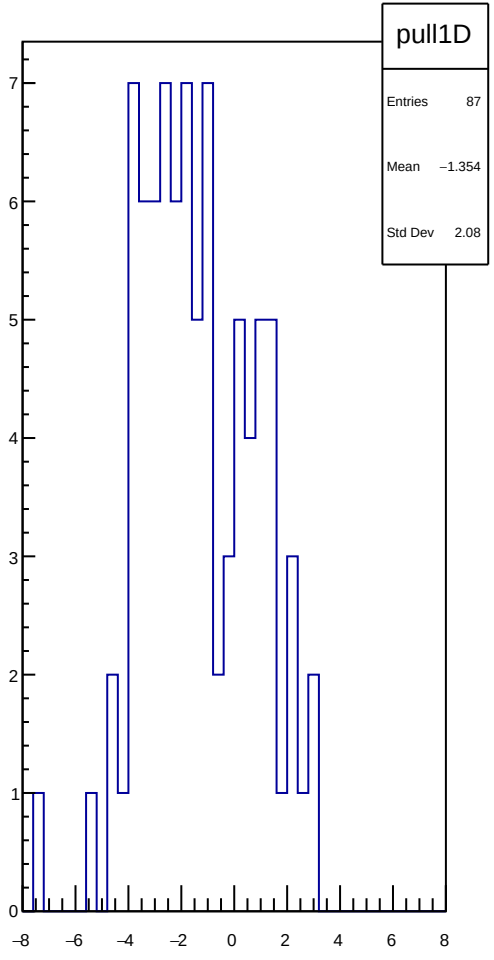

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 8.151e+04 / 86
p0 −28.54 ± 0.2268
pull
Entries 87
Mean 17.52
Std Dev 18.57

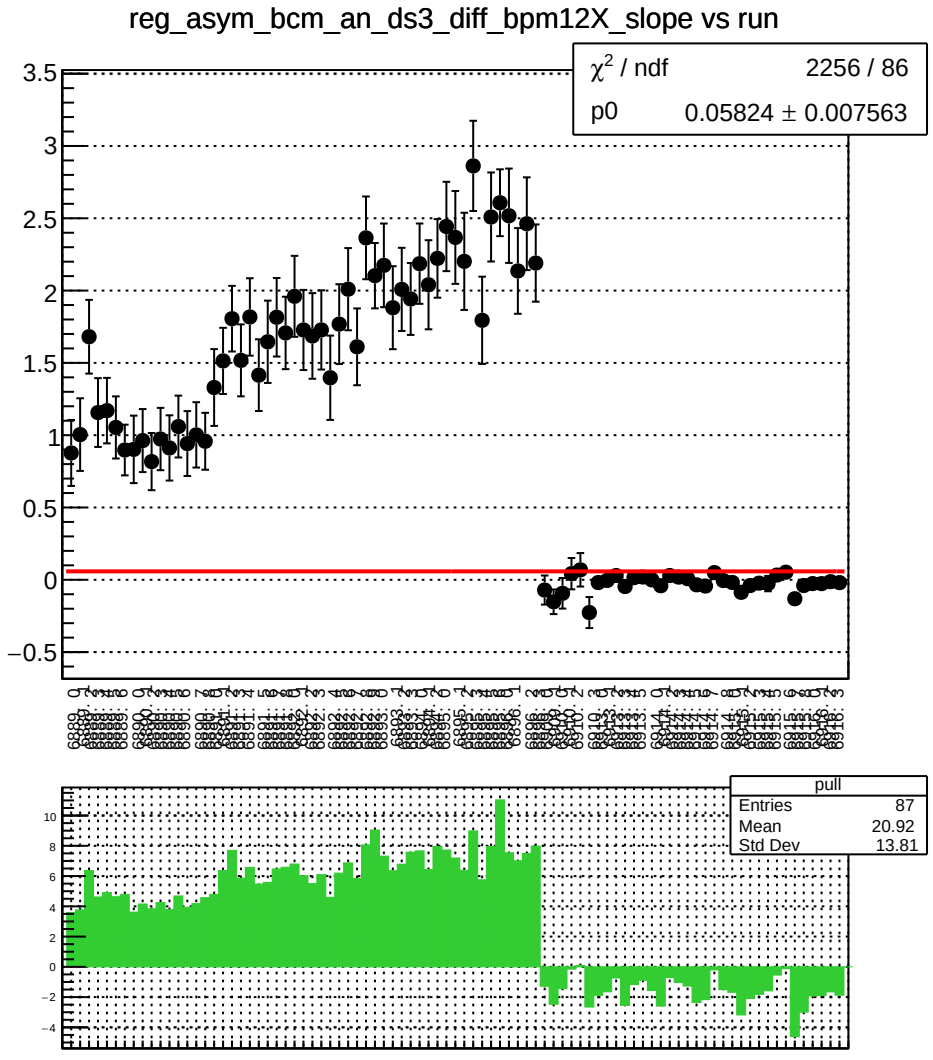

pull1D
Entries 87
Mean −5.98
Std Dev 1.355

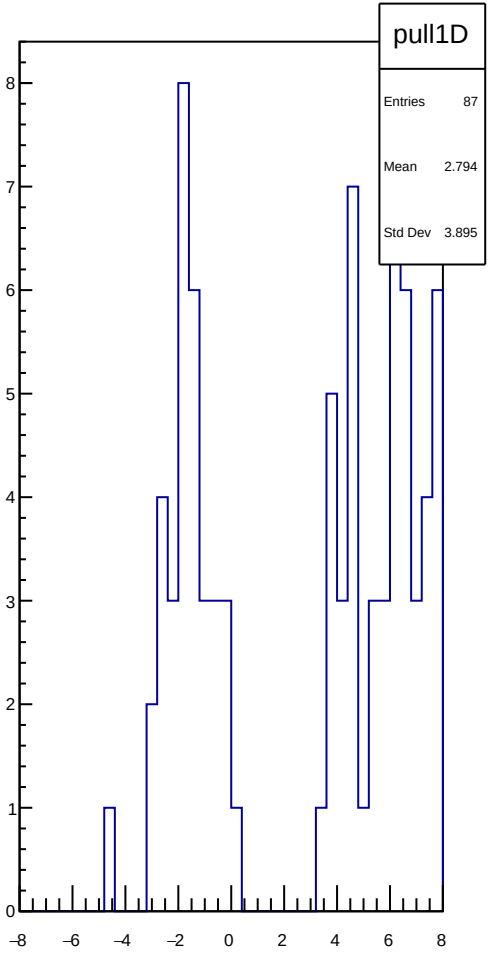

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 303.2 / 86
p0 1.713 ± 0.1531
pull
Entries 87
Mean 11.11
Std Dev 19.08
pull1D
Entries 87
Mean 0.9556
Std Dev 1.604

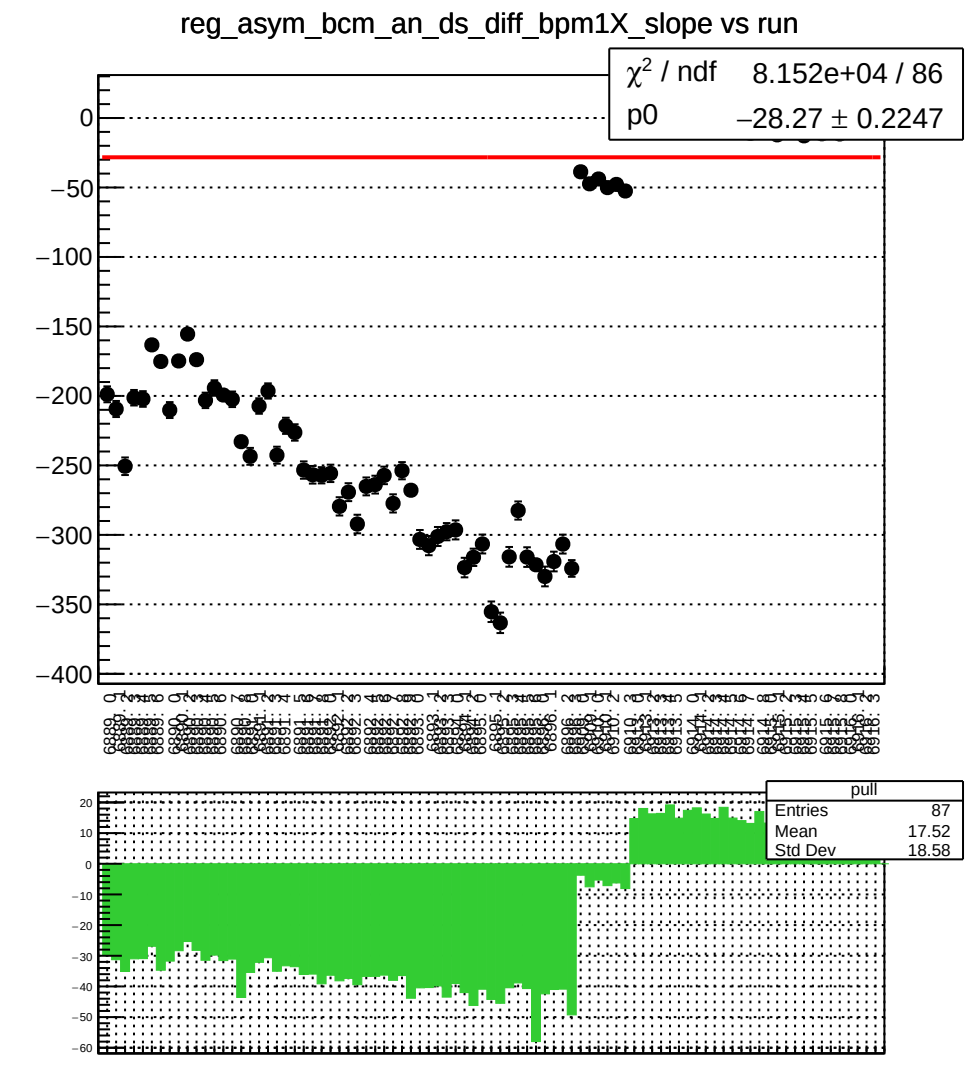

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 8.147e+04 / 86
p0 25.58 ± 0.2117
350
300
250
200
150
100
50
pull
Entries 87
Mean 17.98
Std Dev 17.75
60
50
40
30
20
10
0
−10
−20
pull1D
Entries 87
Mean 6.176
Std Dev 1.437
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

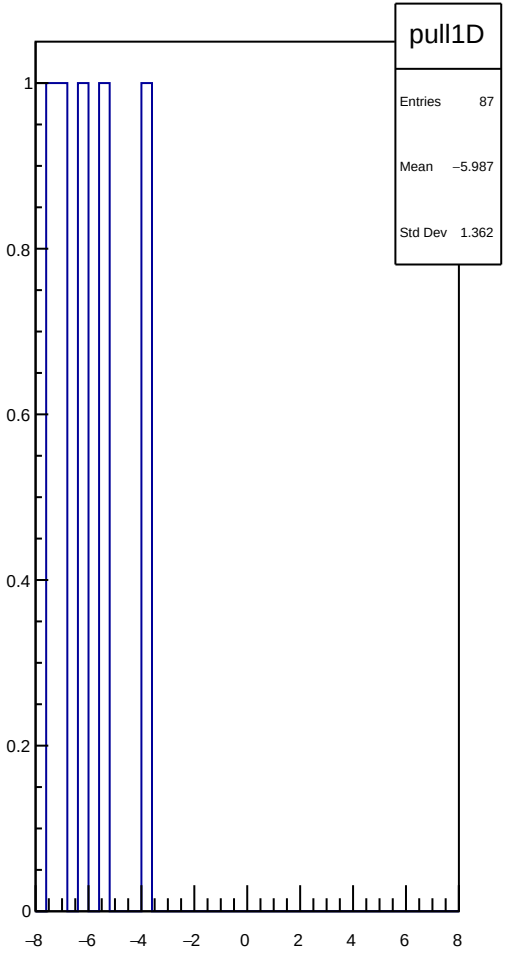

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 535.9 / 86
p0 −2.74 ± 0.1754
pull
Entries 87
Mean 12.32
Std Dev 18.24

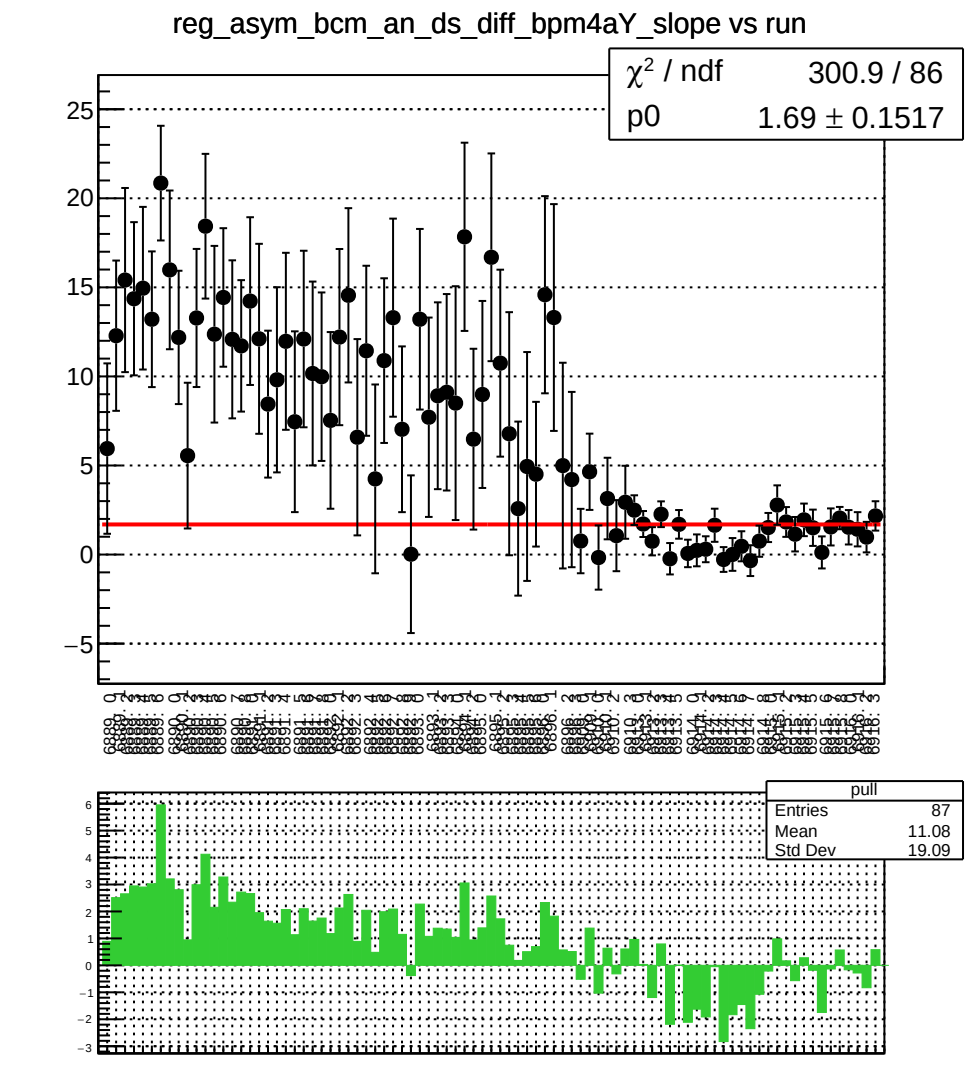

pull1D
Entries 87
Mean −1.354
Std Dev 2.08

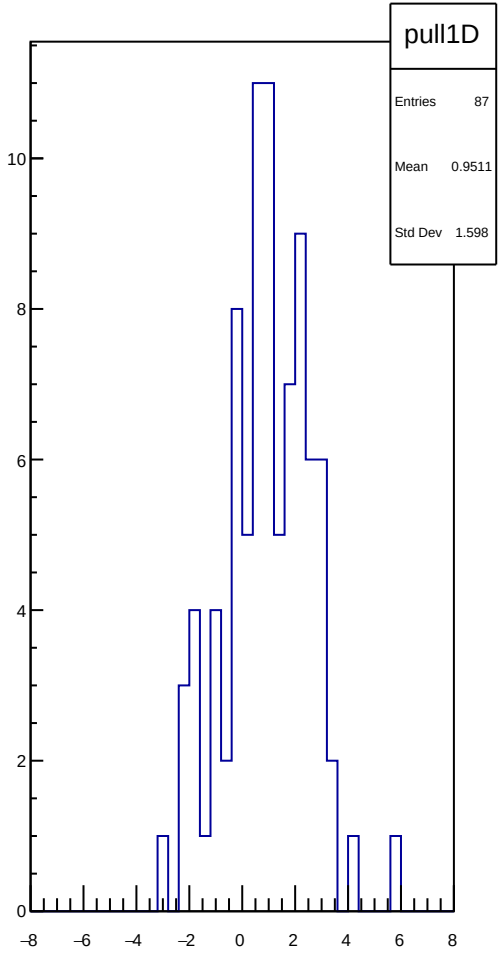

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 2256 / 86
p0 0.05824 ± 0.007563
pull
Entries 87
Mean 20.92
Std Dev 13.81

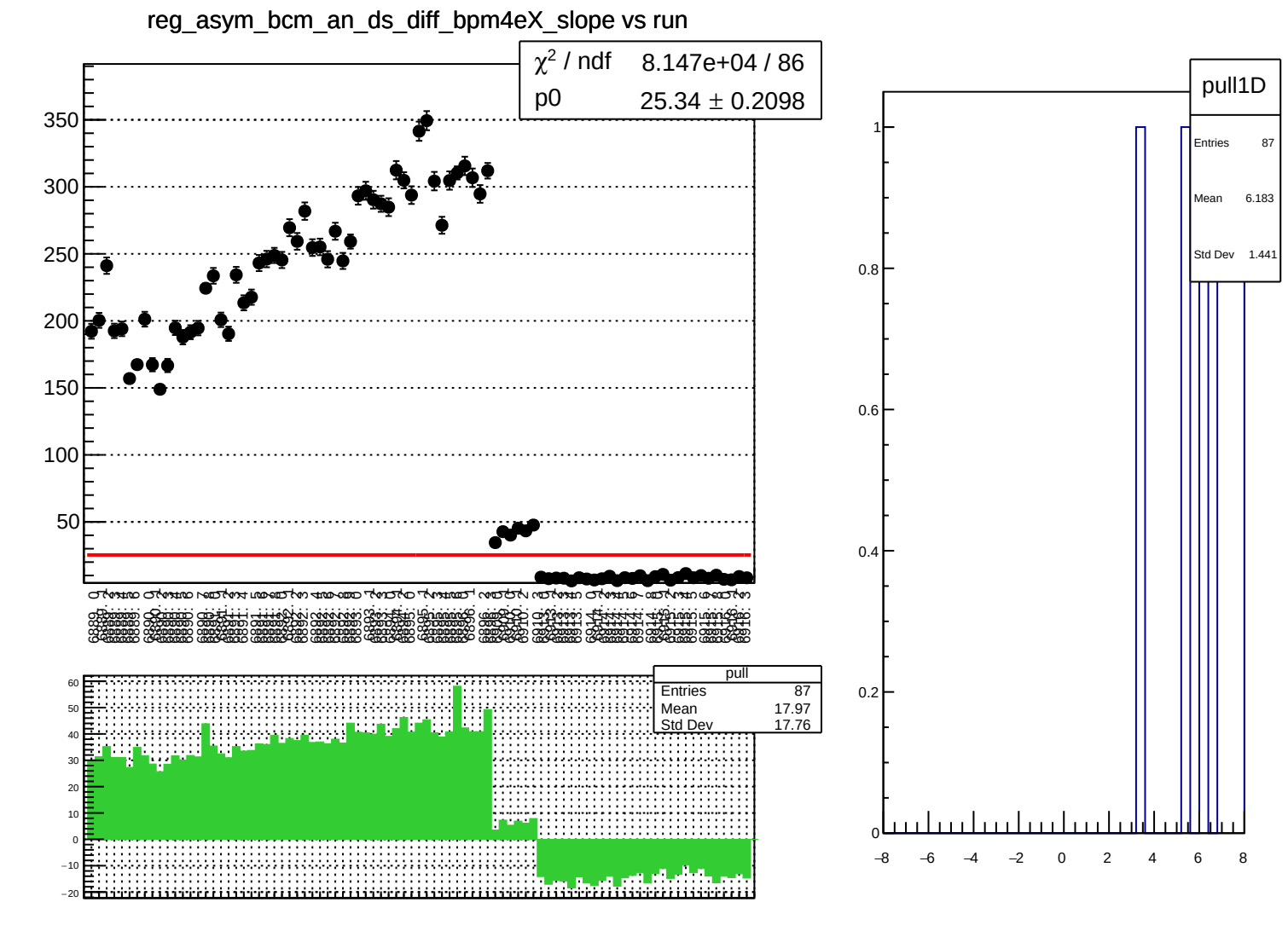

pull1D
Entries 87
Mean 2.794
Std Dev 3.895

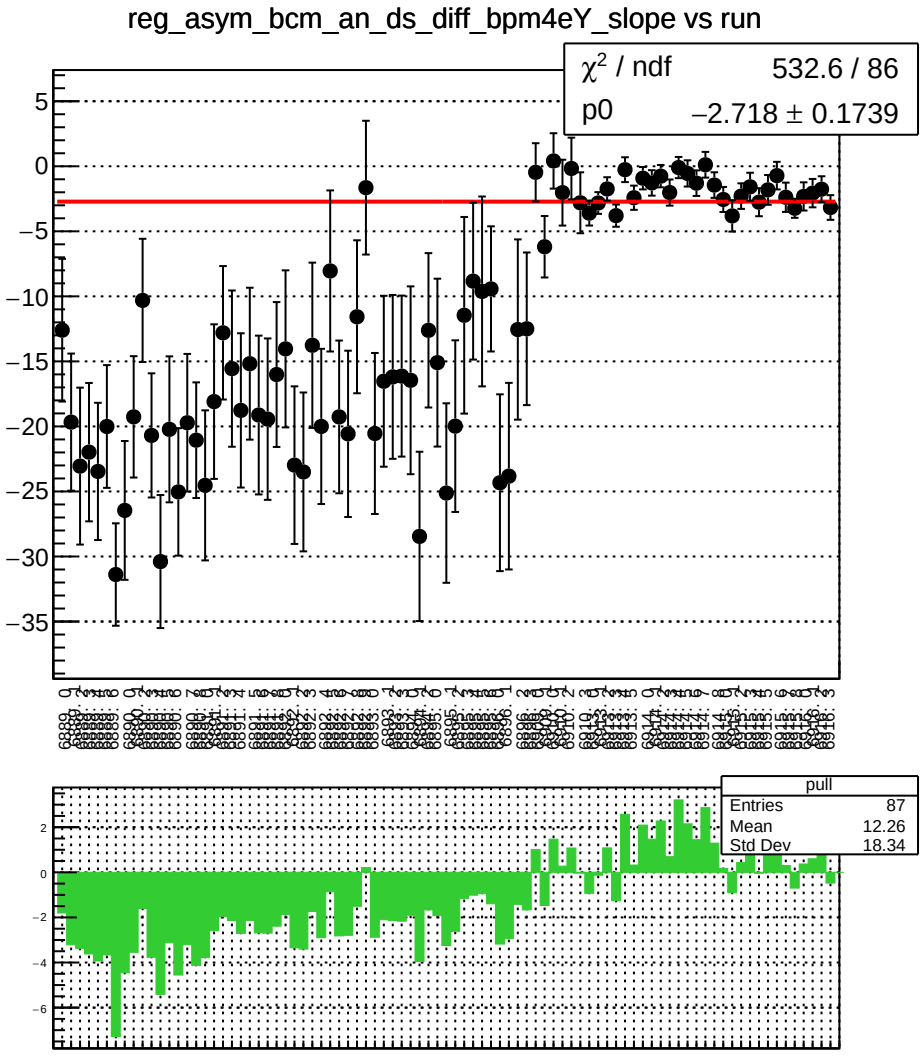

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 8.152e+04 / 86
p0 −28.27 ± 0.2247
pull
Entries 87
Mean 17.52
Std Dev 18.58

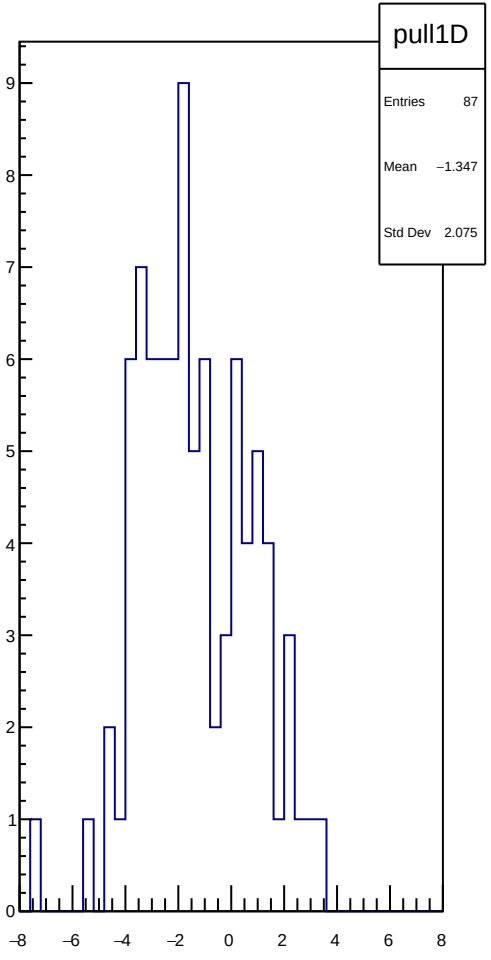

pull1D
Entries 87
Mean −5.987
Std Dev 1.362

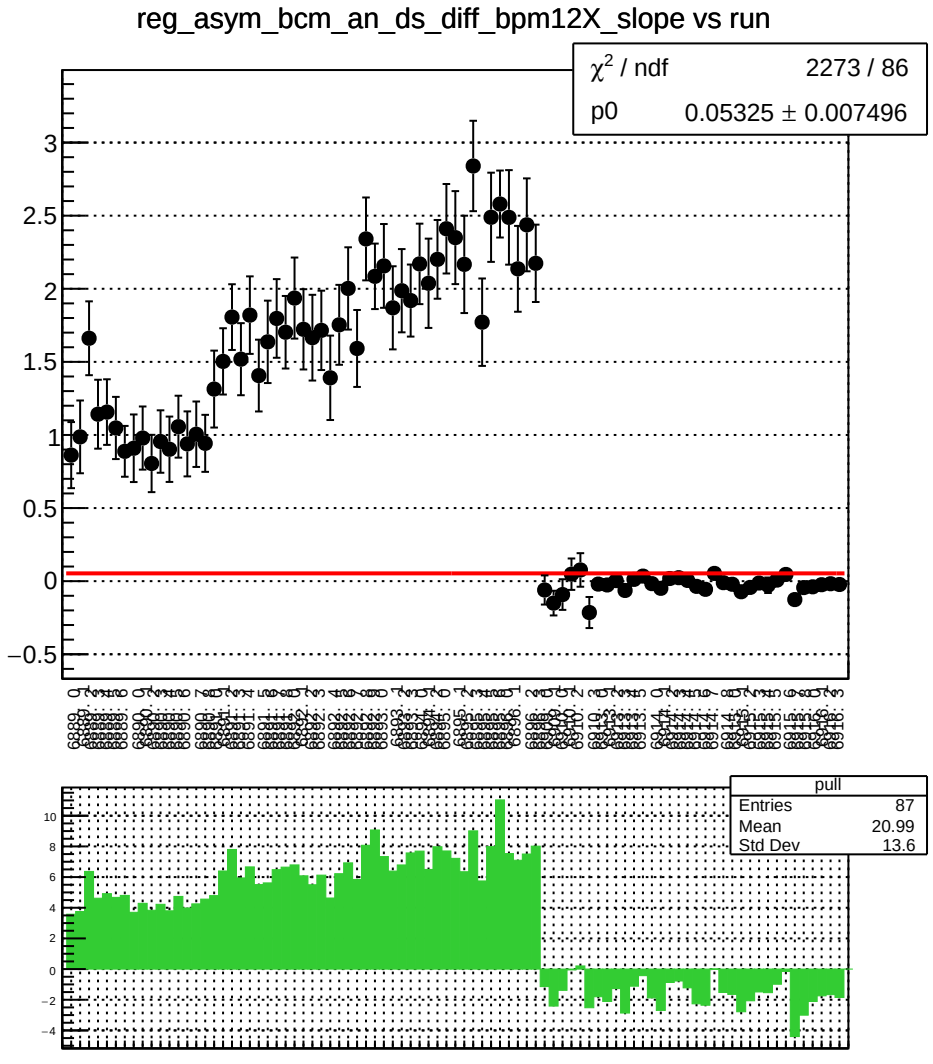

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 300.9 / 86
p0 1.69 ± 0.1517
pull
Entries 87
Mean 11.08
Std Dev 19.09

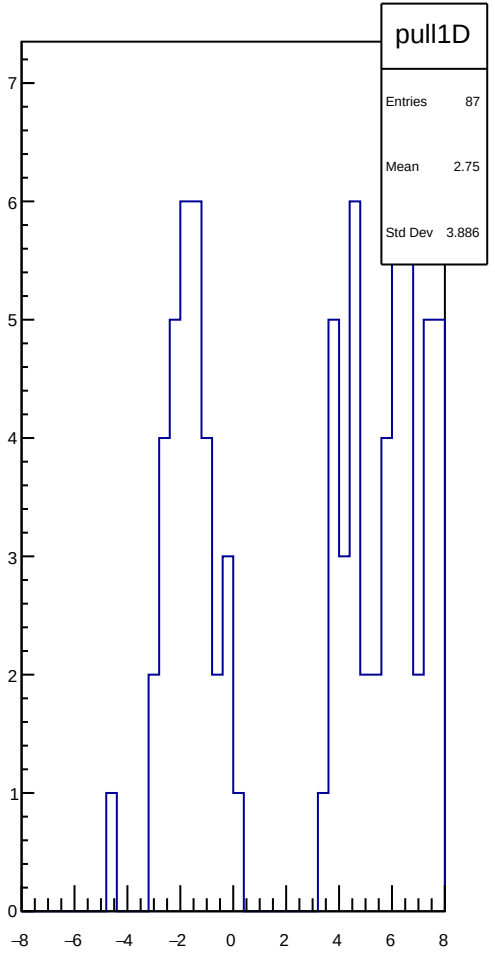

pull1D
Entries 87
Mean 0.9511
Std Dev 1.598

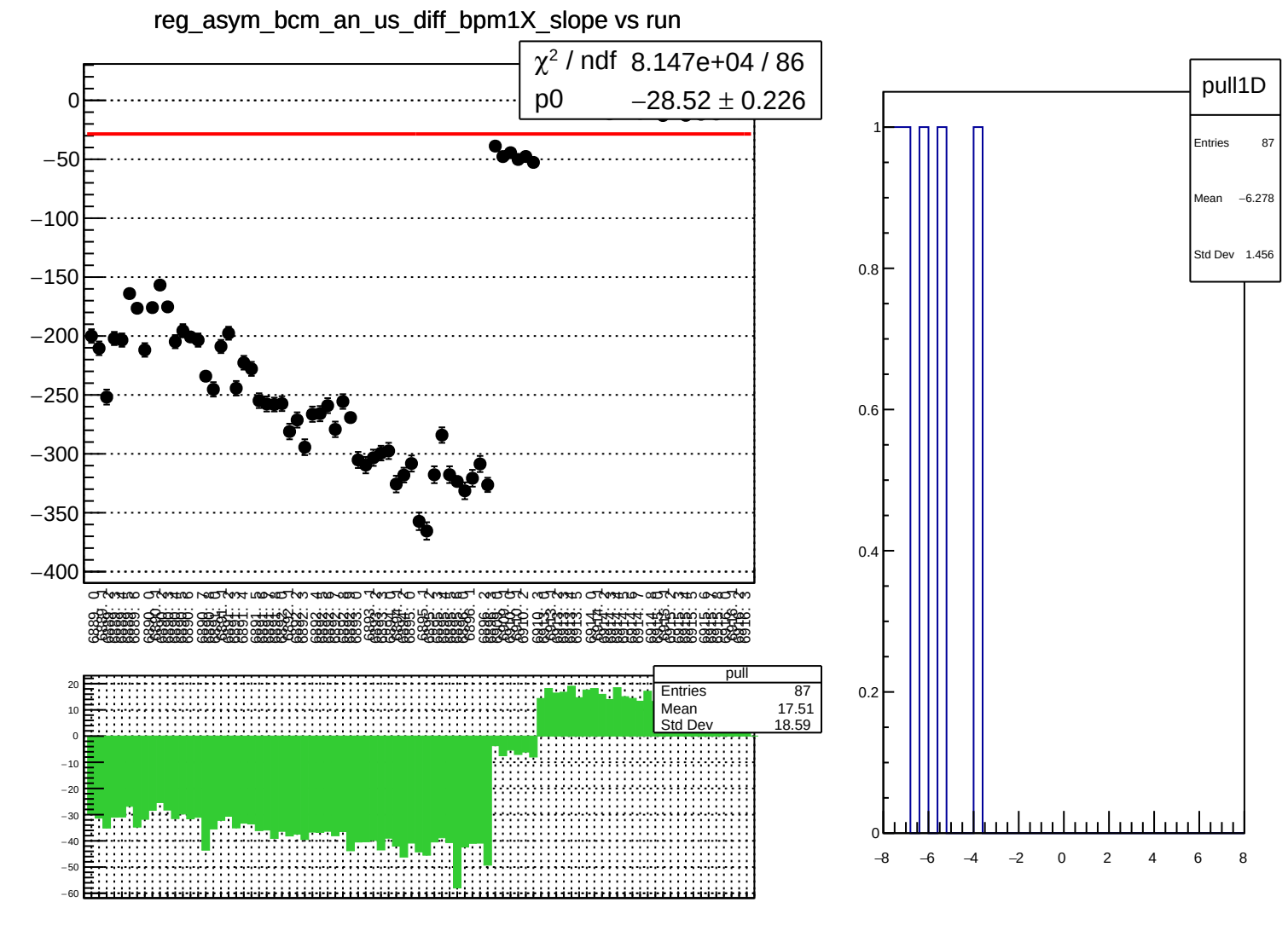

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 8.147e+04 / 86
p0 25.34 ± 0.2098
350
300
250
200
150
100
50
pull
Entries 87
Mean 17.97
Std Dev 17.76
60
50
40
30
20
10
0
−10
−20
pull1D
Entries 87
Mean 6.183
Std Dev 1.441
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

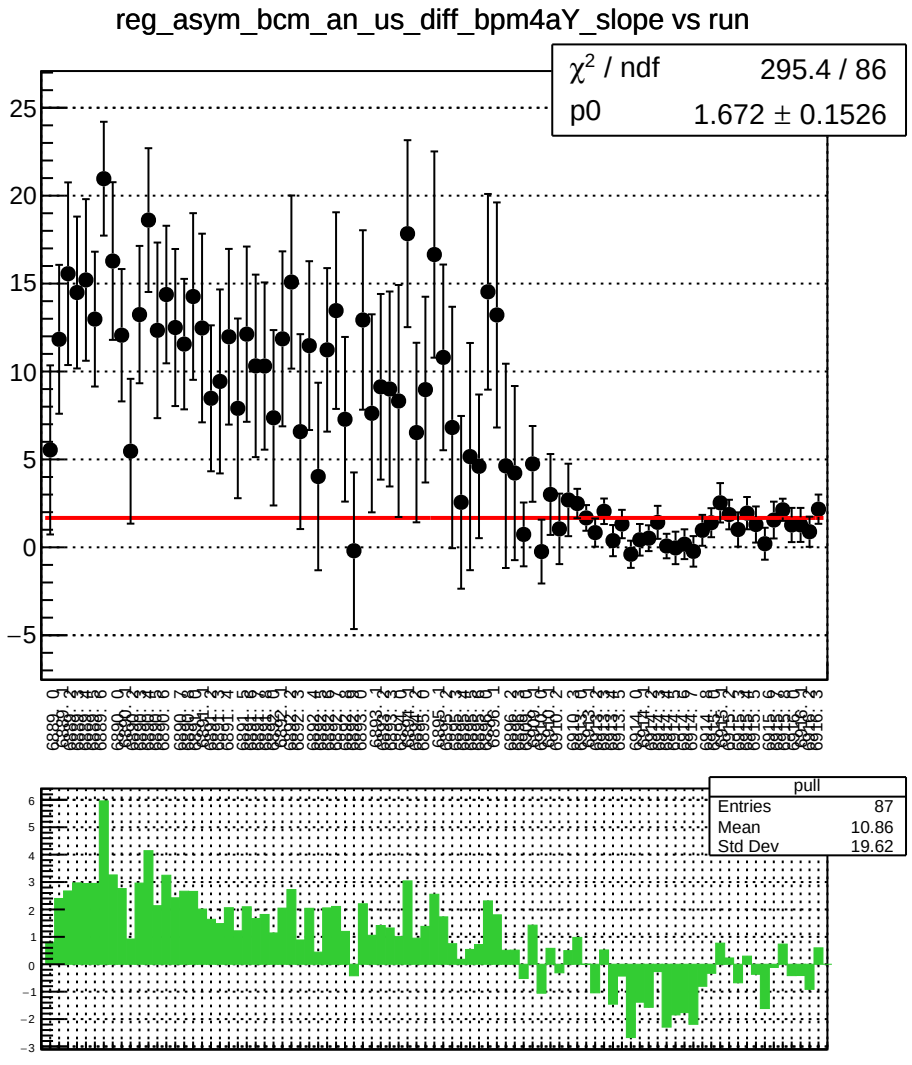

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 532.6 / 86
p0 −2.718 ± 0.1739
pull
Entries 87
Mean 12.26
Std Dev 18.34

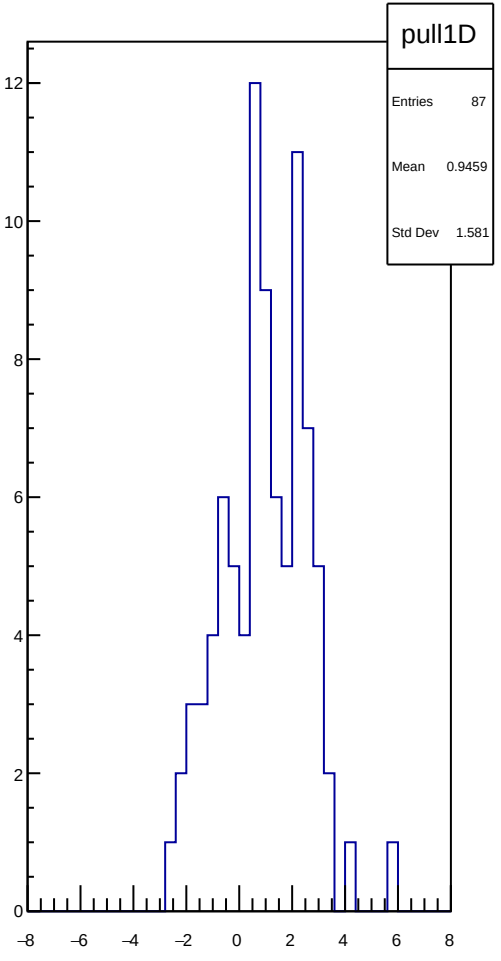

pull1D
Entries 87
Mean −1.347
Std Dev 2.075

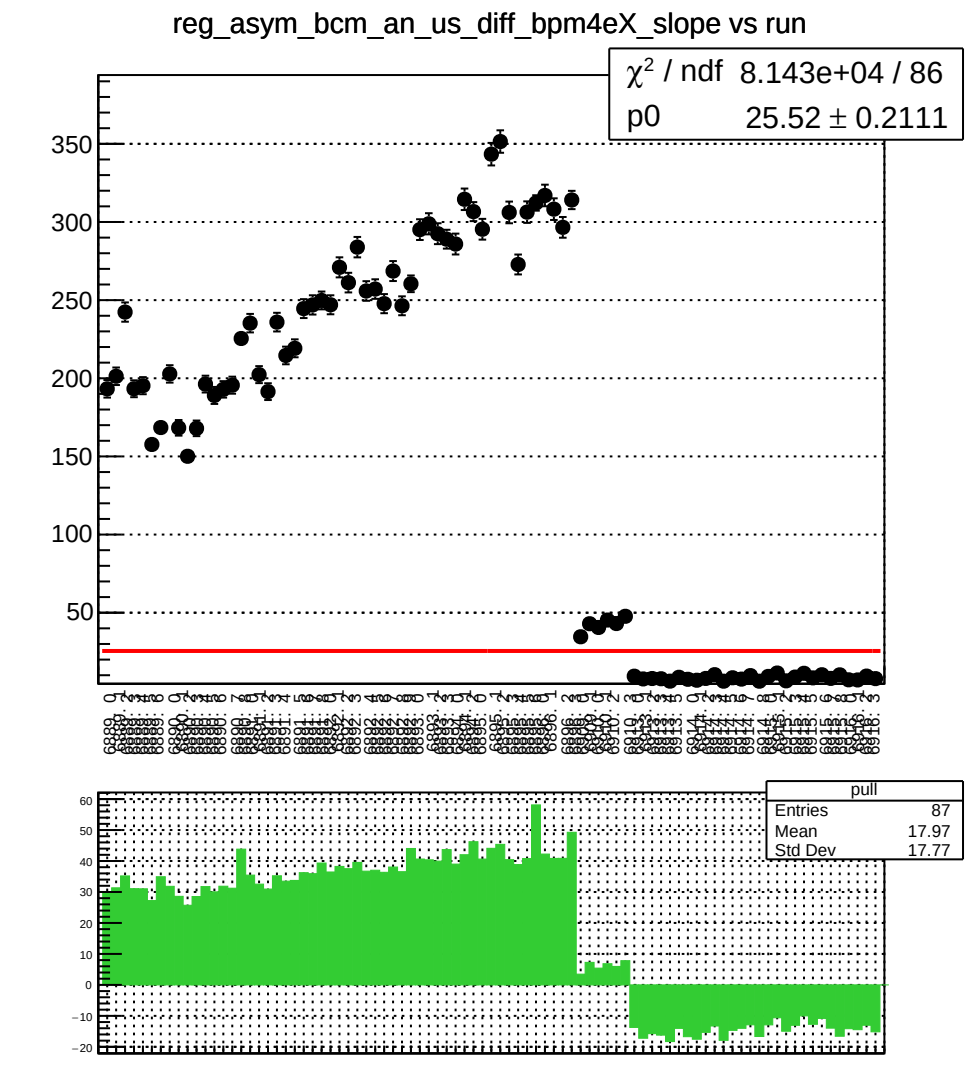

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 2273 / 86
p0 0.05325 ± 0.007496
pull
Entries 87
Mean 20.99
Std Dev 13.6

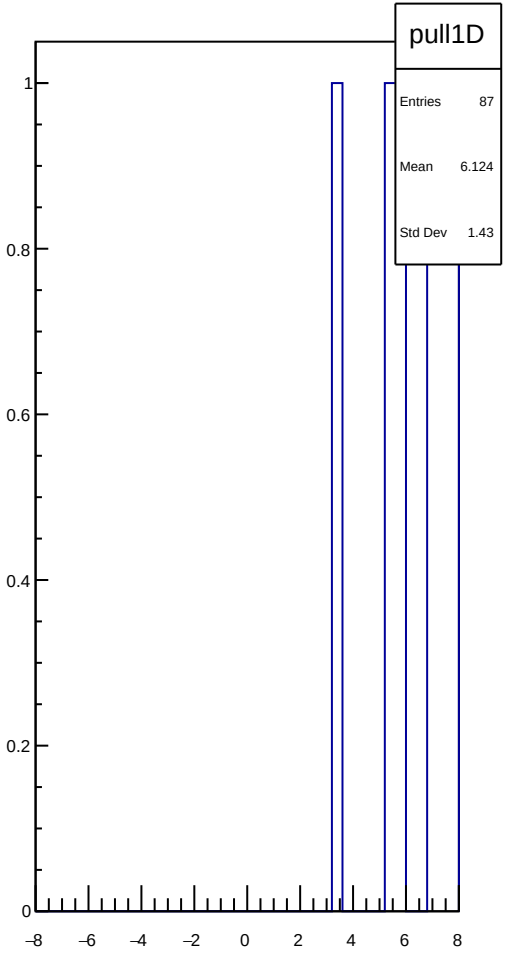

pull1D
Entries 87
Mean 2.75
Std Dev 3.886

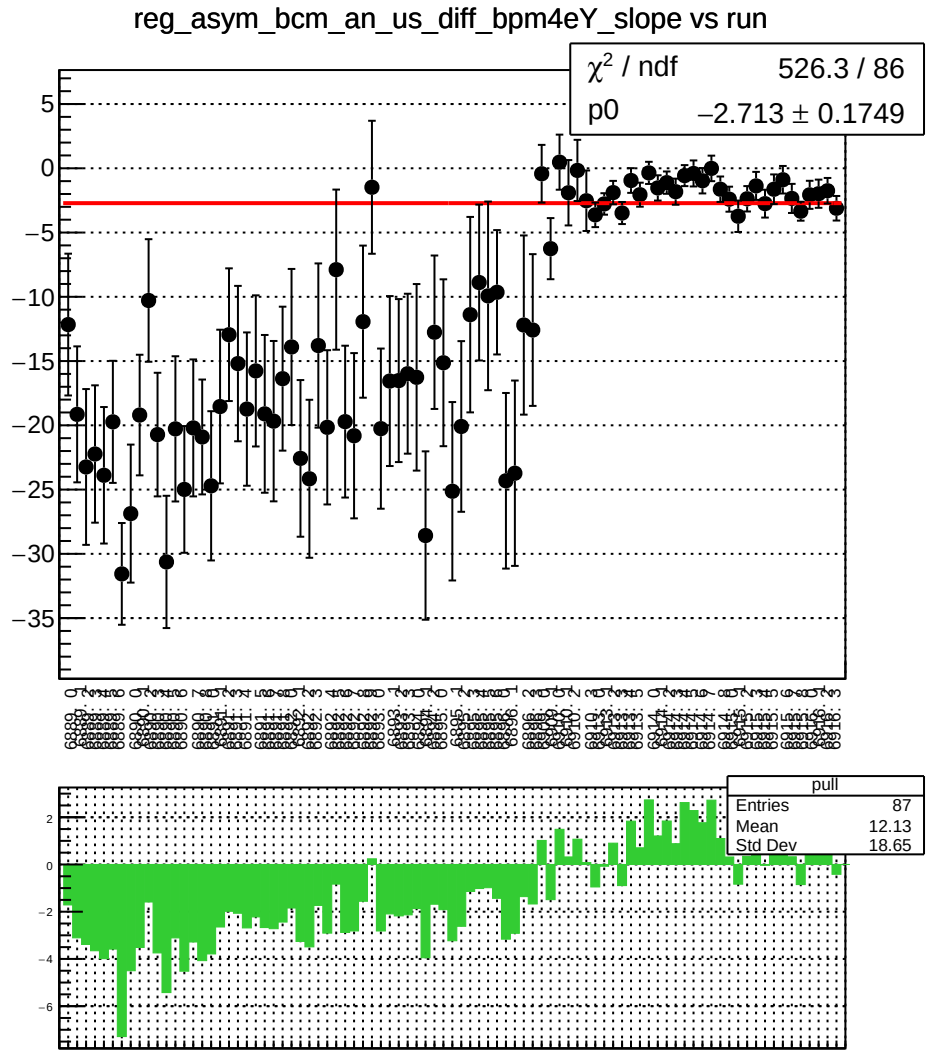

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 8.147e+04 / 86
p0 −28.52 ± 0.226
pull
Entries 87
Mean 17.51
Std Dev 18.59
pull1D
Entries 87
Mean −6.278
Std Dev 1.456

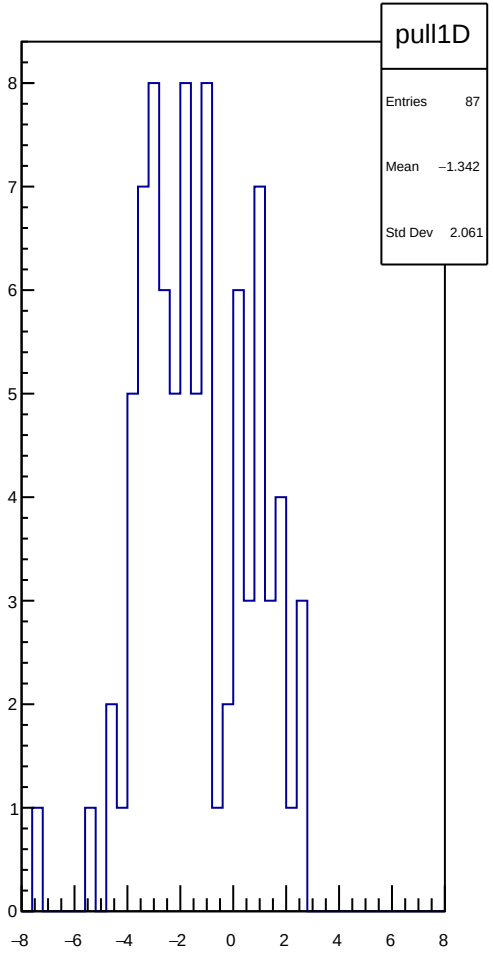

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 295.4 / 86
p0 1.672 ± 0.1526
pull
Entries 87
Mean 10.86
Std Dev 19.62

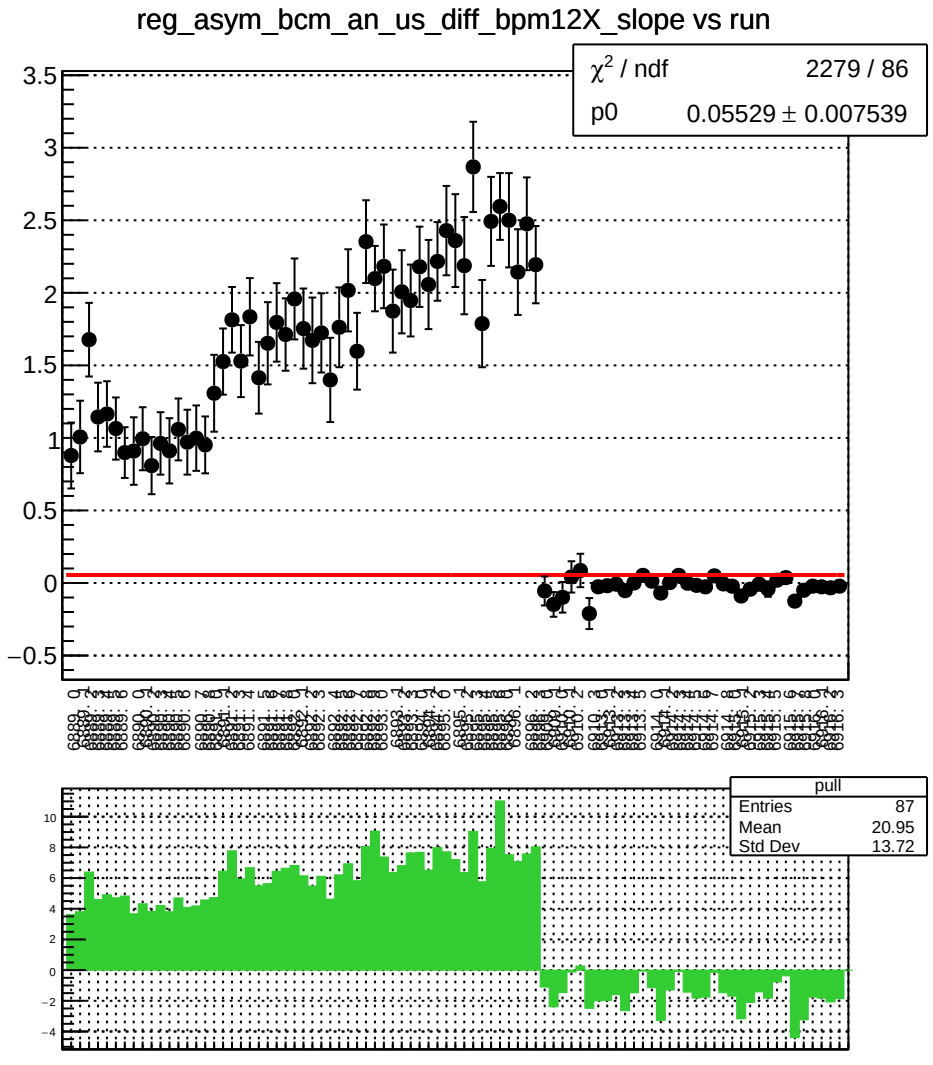

pull1D
Entries 87
Mean 0.9459
Std Dev 1.581

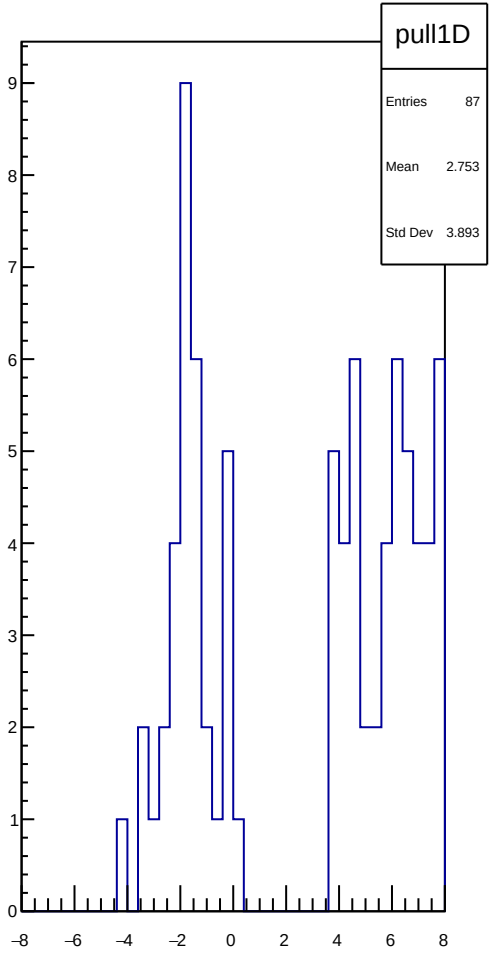

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 8.143e+04 / 86
p0 25.52 ± 0.2111
350
300
250
200
150
100
50
pull
Entries 87
Mean 17.97
Std Dev 17.77
60
50
40
30
20
10
0
−10
−20

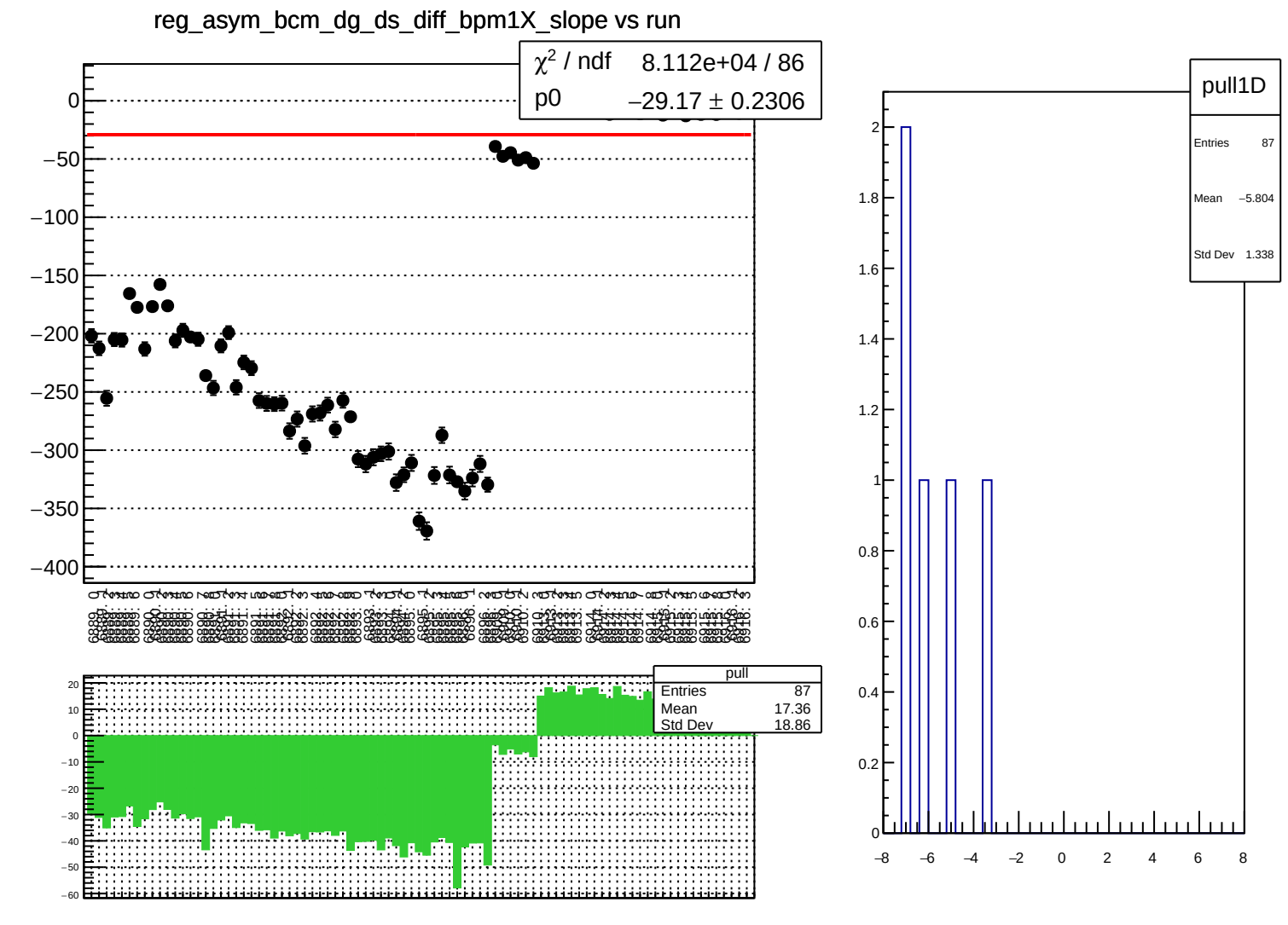

pull1D
Entries 87
Mean 6.124
Std Dev 1.43
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

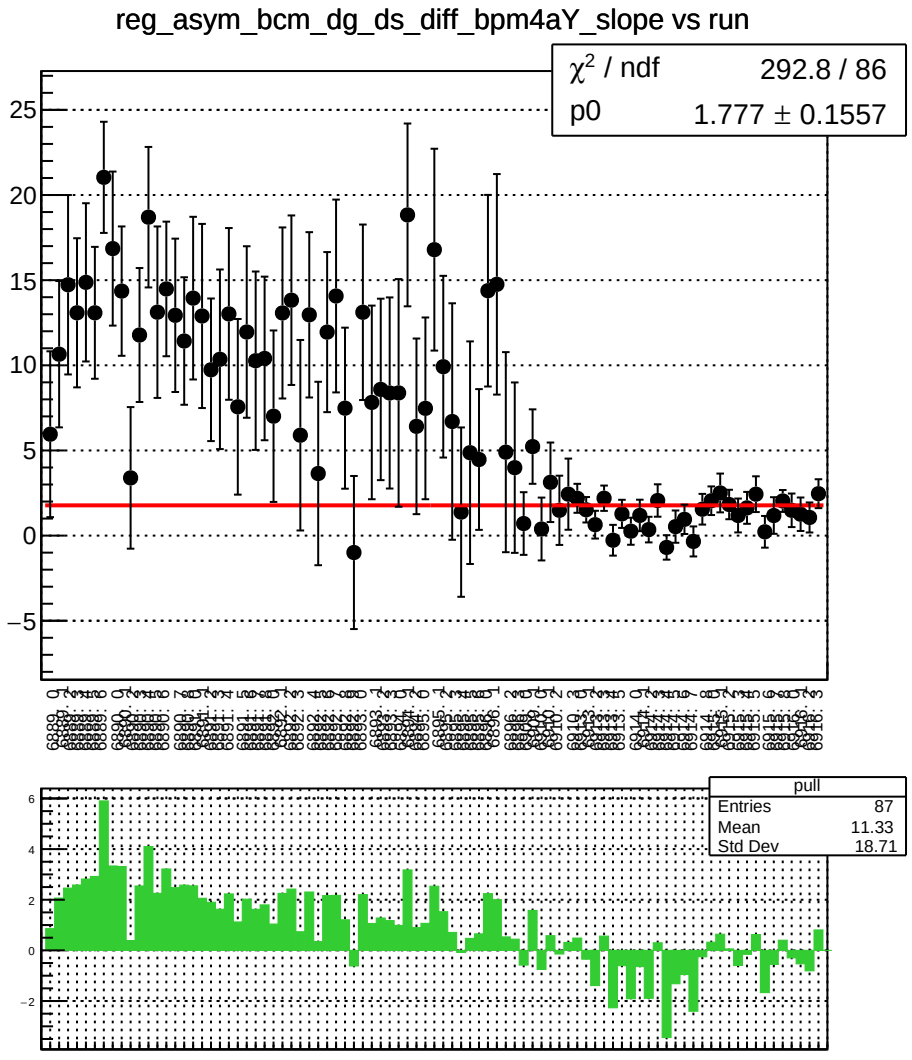

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 526.3 / 86
p0 −2.713 ± 0.1749
pull
Entries 87
Mean 12.13
Std Dev 18.65

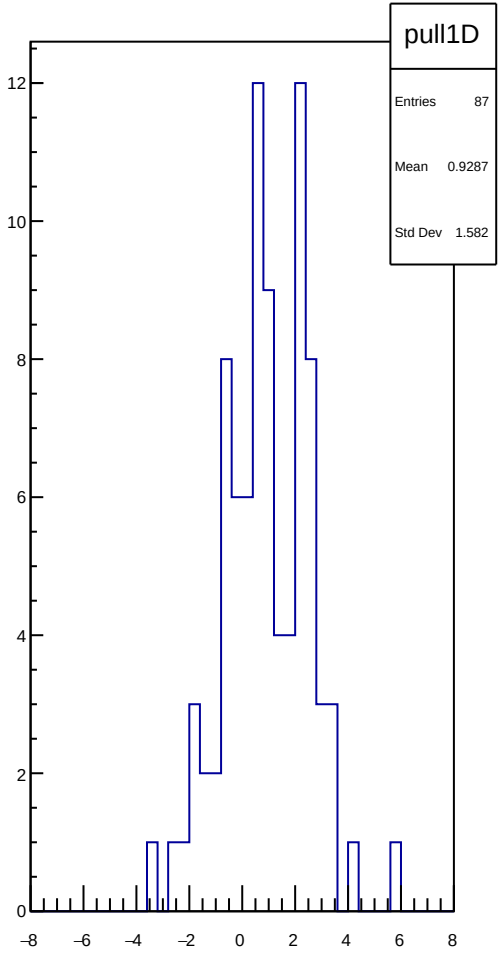

pull1D
Entries 87
Mean −1.342
Std Dev 2.061

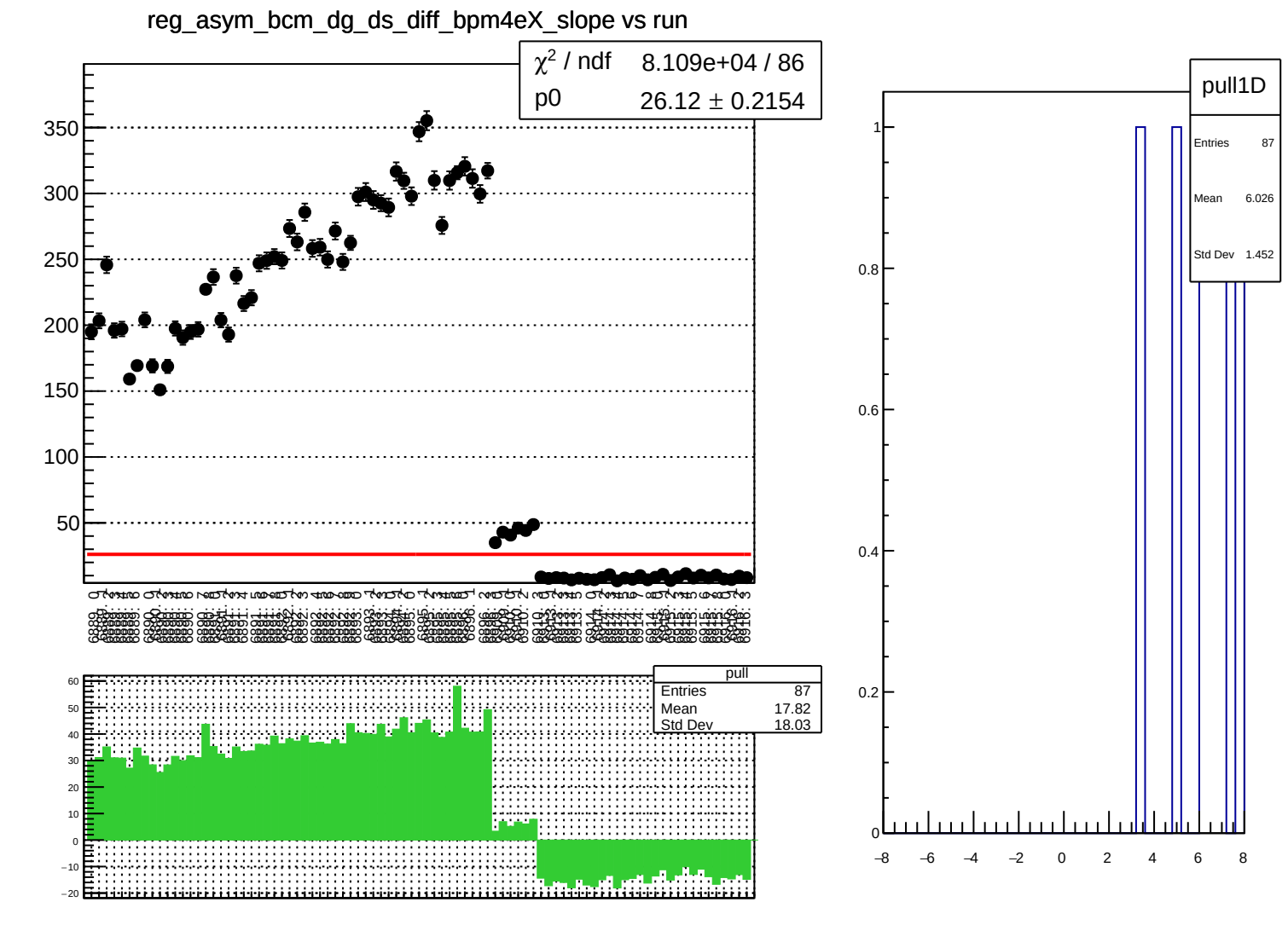

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 2279 / 86
p0 0.05529 ± 0.007539
pull
Entries 87
Mean 20.95
Std Dev 13.72

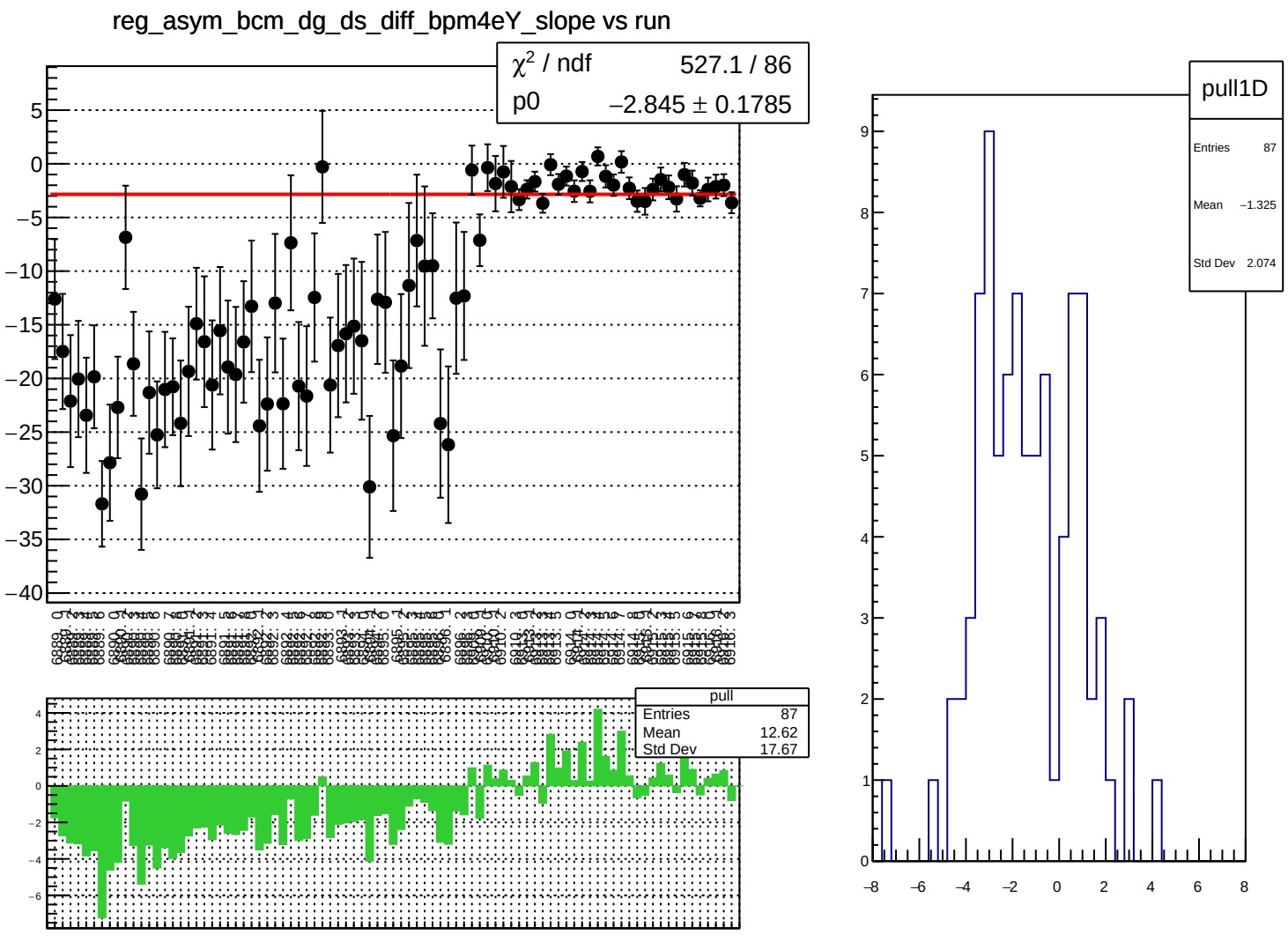

pull1D
Entries 87
Mean 2.753
Std Dev 3.893

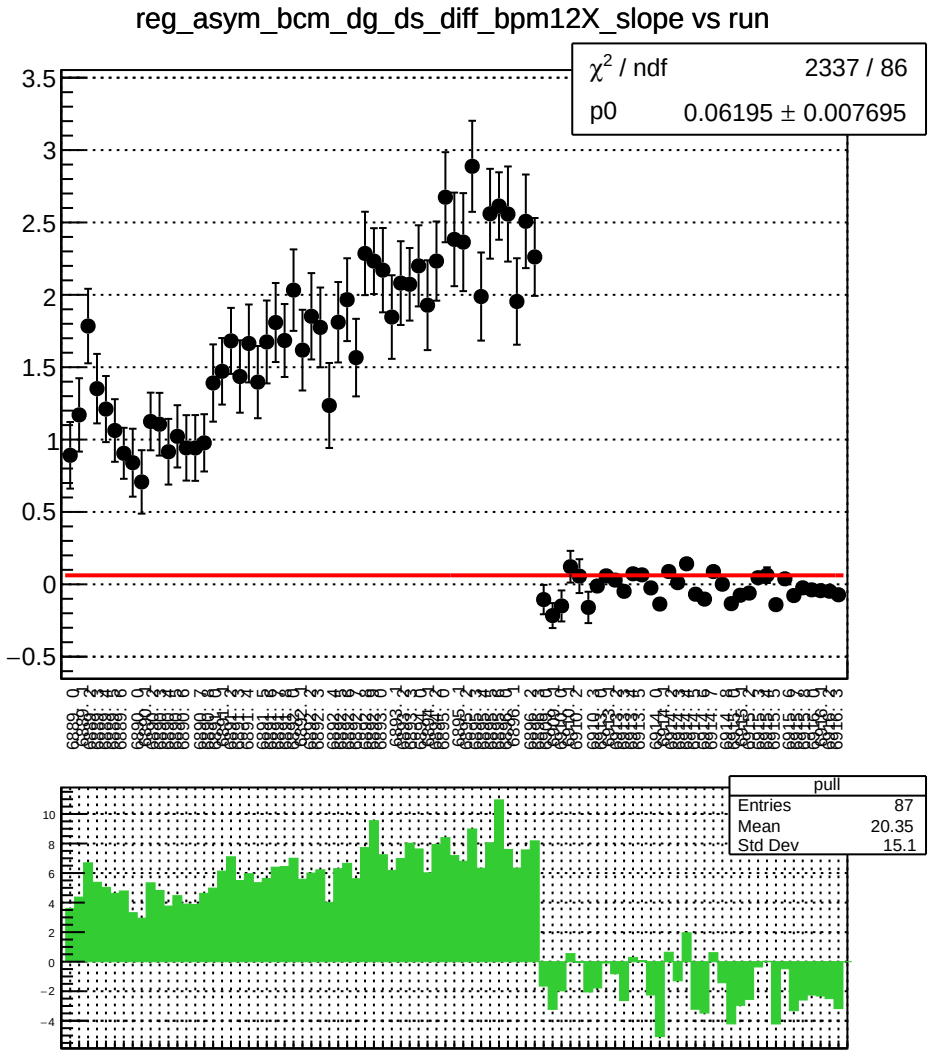

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 8.112e+04 / 86
p0 −29.17 ± 0.2306
pull
Entries 87
Mean 17.36
Std Dev 18.86
pull1D
Entries 87
Mean −5.804
Std Dev 1.338

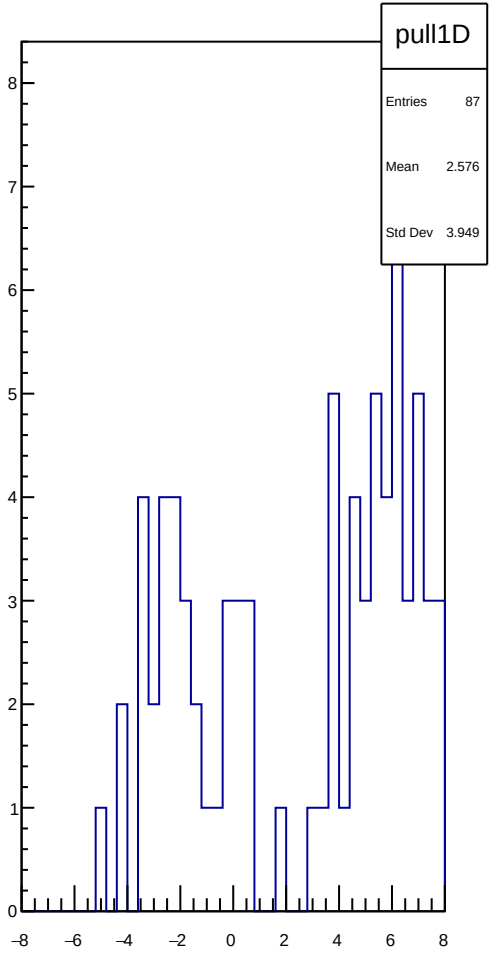

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 292.8 / 86
p0 1.777 ± 0.1557
pull
Entries 87
Mean 11.33
Std Dev 18.71

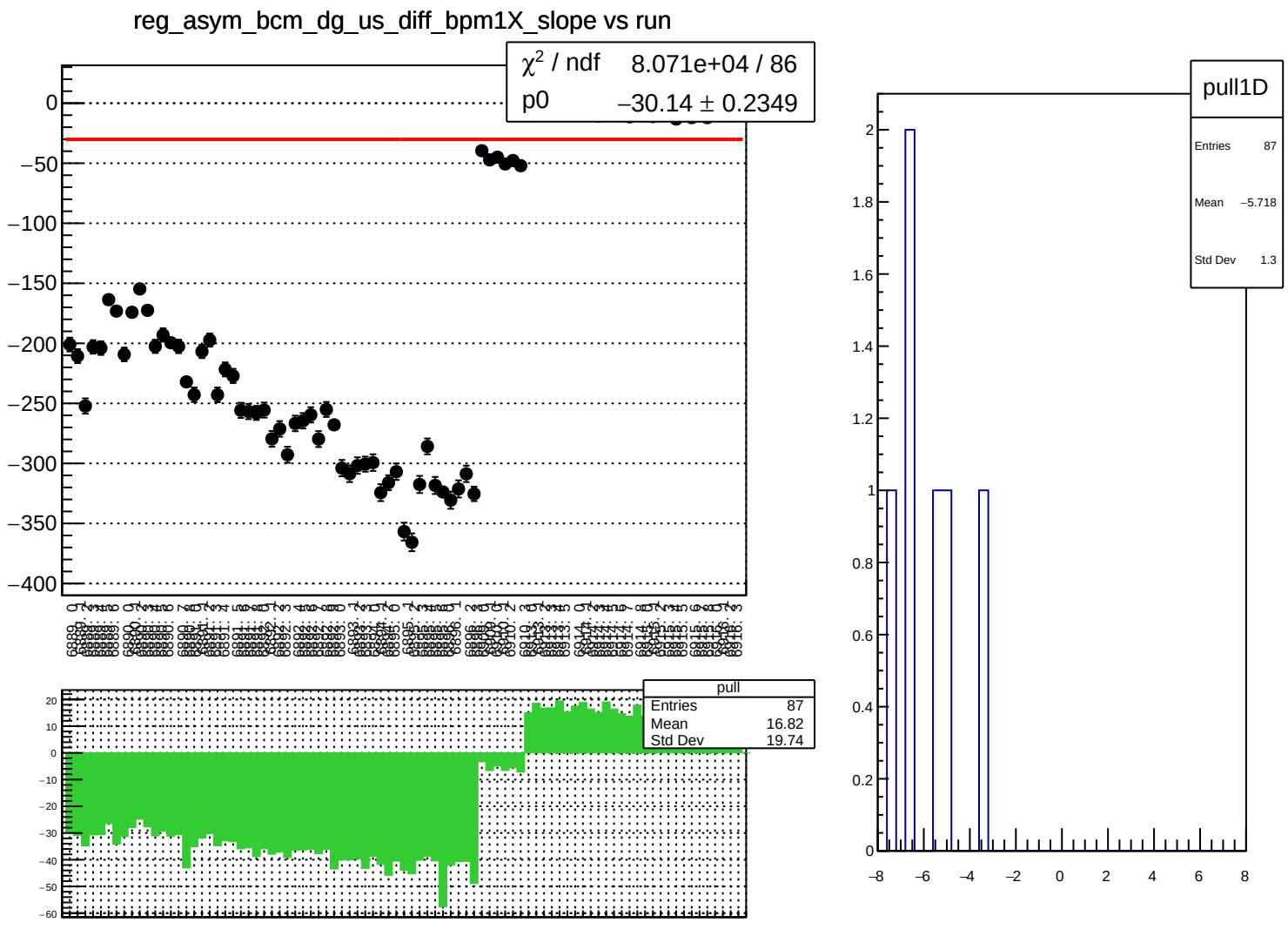

pull1D
Entries 87
Mean 0.9287
Std Dev 1.582

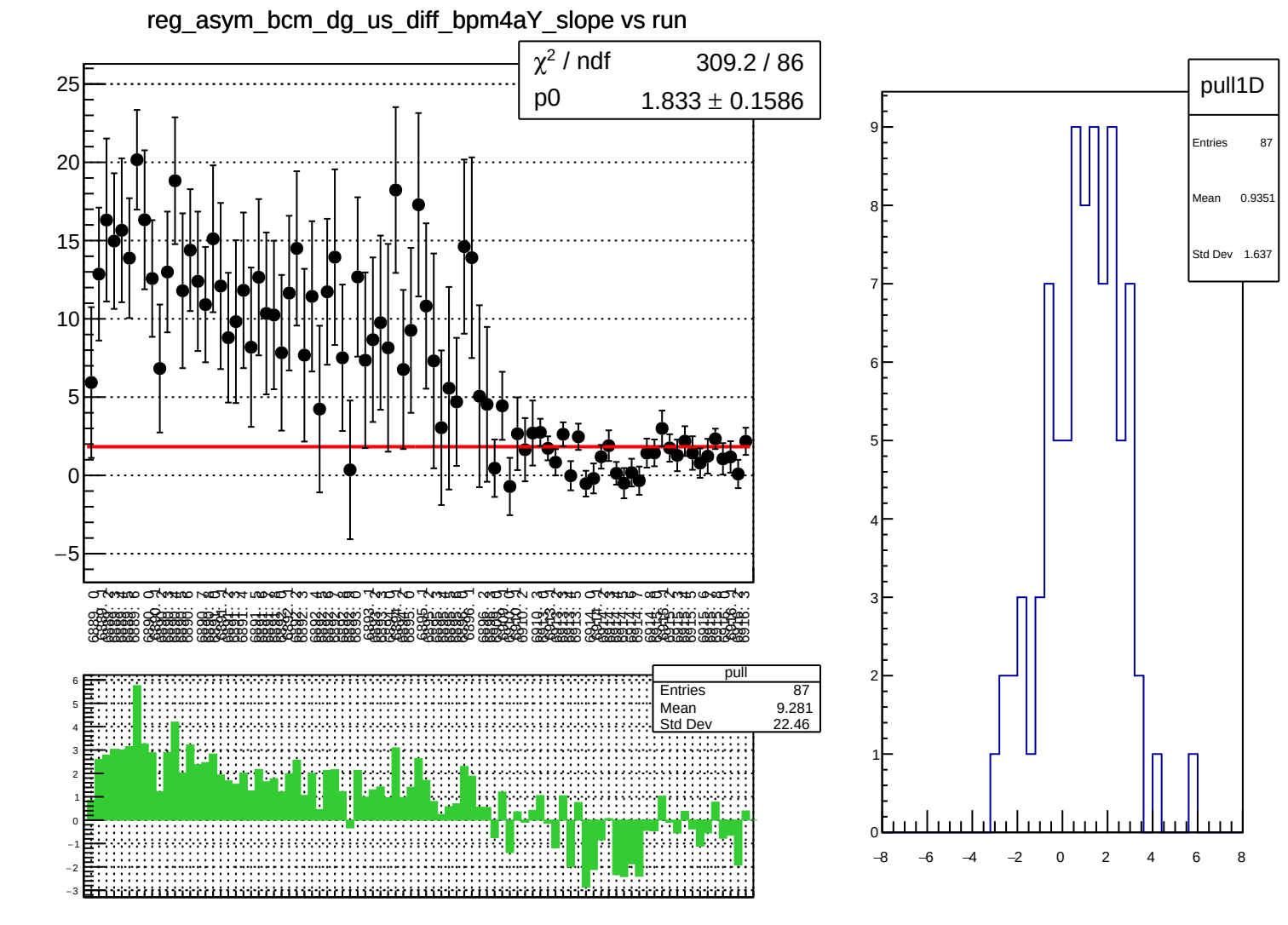

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 8.109e+04 / 86
p0 26.12 ± 0.2154
350
300
250
200
150
100
50
pull
Entries 87
Mean 17.82
Std Dev 18.03
60
50
40
30
20
10
0
−10
−20
pull1D
Entries 87
Mean 6.026
Std Dev 1.452
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

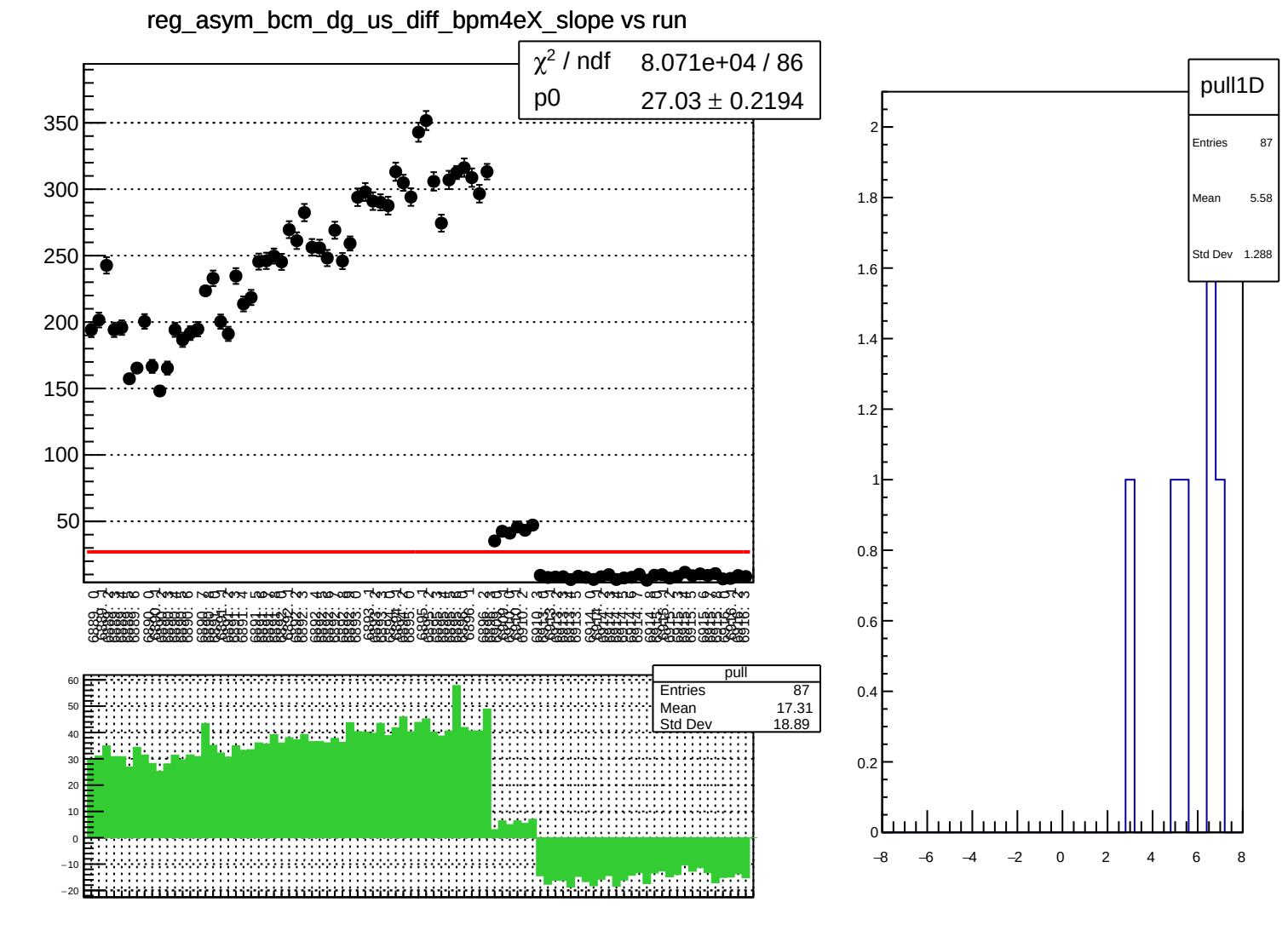

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 527.1 / 86
p0 −2.845 ± 0.1785
pull
Entries 87
Mean 12.62
Std Dev 17.67
pull1D
Entries 87
Mean −1.325
Std Dev 2.074

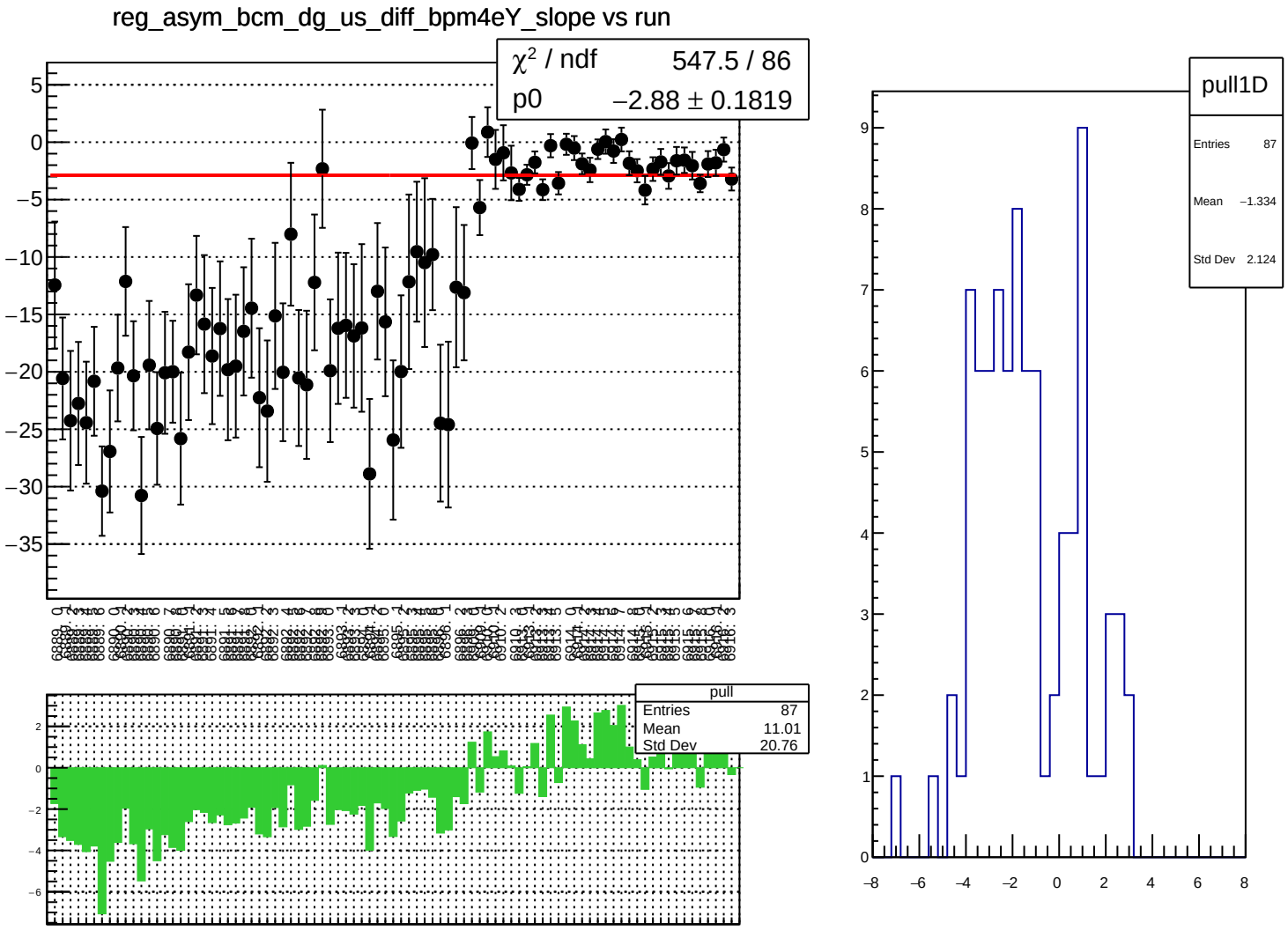

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 2337 / 86
p0 0.06195 ± 0.007695
pull
Entries 87
Mean 20.35
Std Dev 15.1

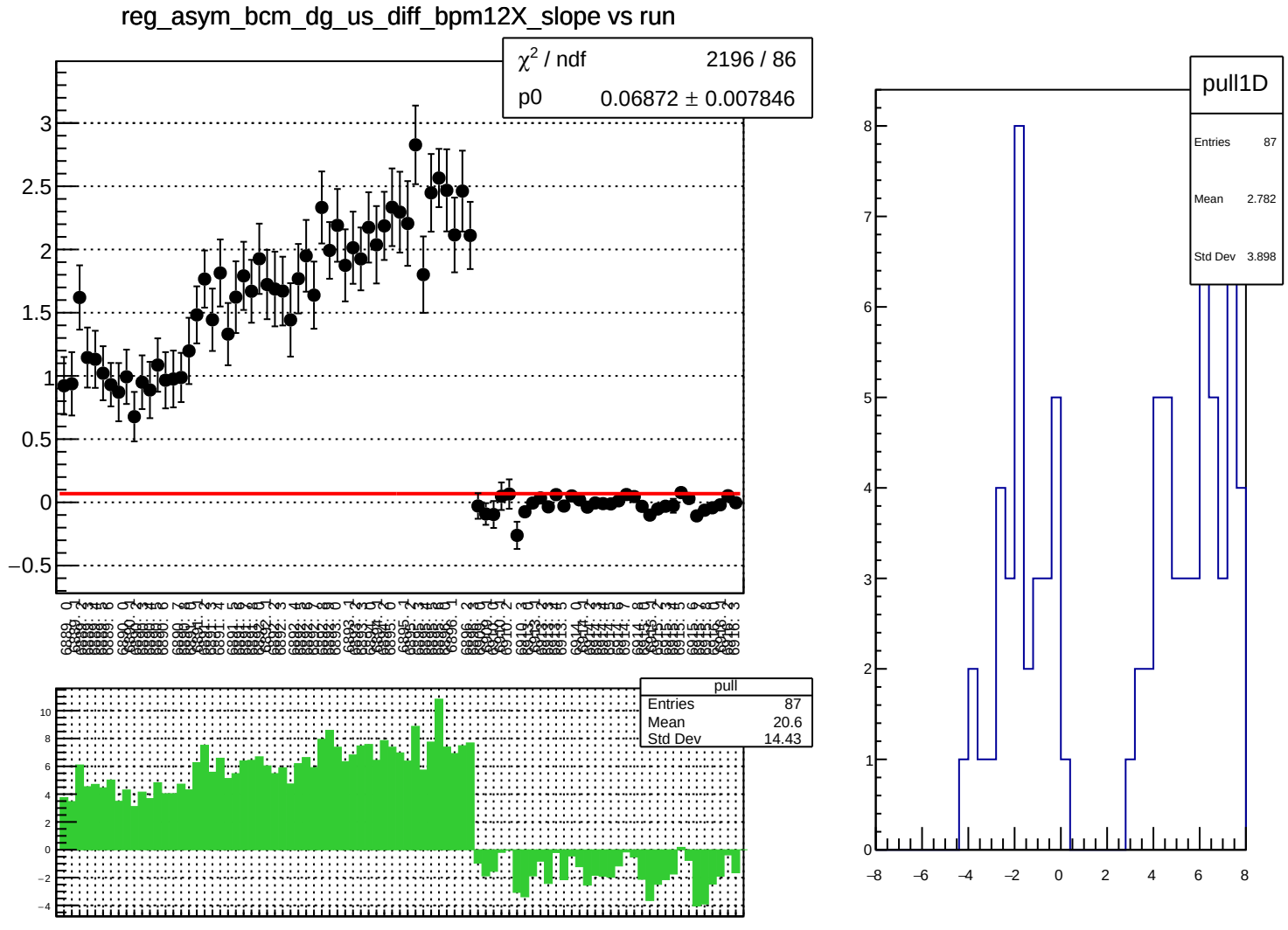

pull1D
Entries 87
Mean 2.576
Std Dev 3.949


reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 8.071e+04 / 86
p0 −30.14 ± 0.2349
pull
Entries 87
Mean 16.82
Std Dev 19.74
pull1D
Entries 87
Mean −5.718
Std Dev 1.3


reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 309.2 / 86
p0 1.833 ± 0.1586
pull
Entries 87
Mean 9.281
Std Dev 22.46
pull1D
Entries 87
Mean 0.9351
Std Dev 1.637


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 8.071e+04 / 86
p0 27.03 ± 0.2194
350
300
250
200
150
100
50
pull
Entries 87
Mean 17.31
Std Dev 18.89
60
50
40
30
20
10
0
−10
−20
pull1D
Entries 87
Mean 5.58
Std Dev 1.288
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


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 547.5 / 86
p0 −2.88 ± 0.1819
pull
Entries 87
Mean 11.01
Std Dev 20.76
pull1D
Entries 87
Mean −1.334
Std Dev 2.124


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 2196 / 86
p0 0.06872 ± 0.007846
pull
Entries 87
Mean 20.6
Std Dev 14.43
pull1D
Entries 87
Mean 2.782
Std Dev 3.898