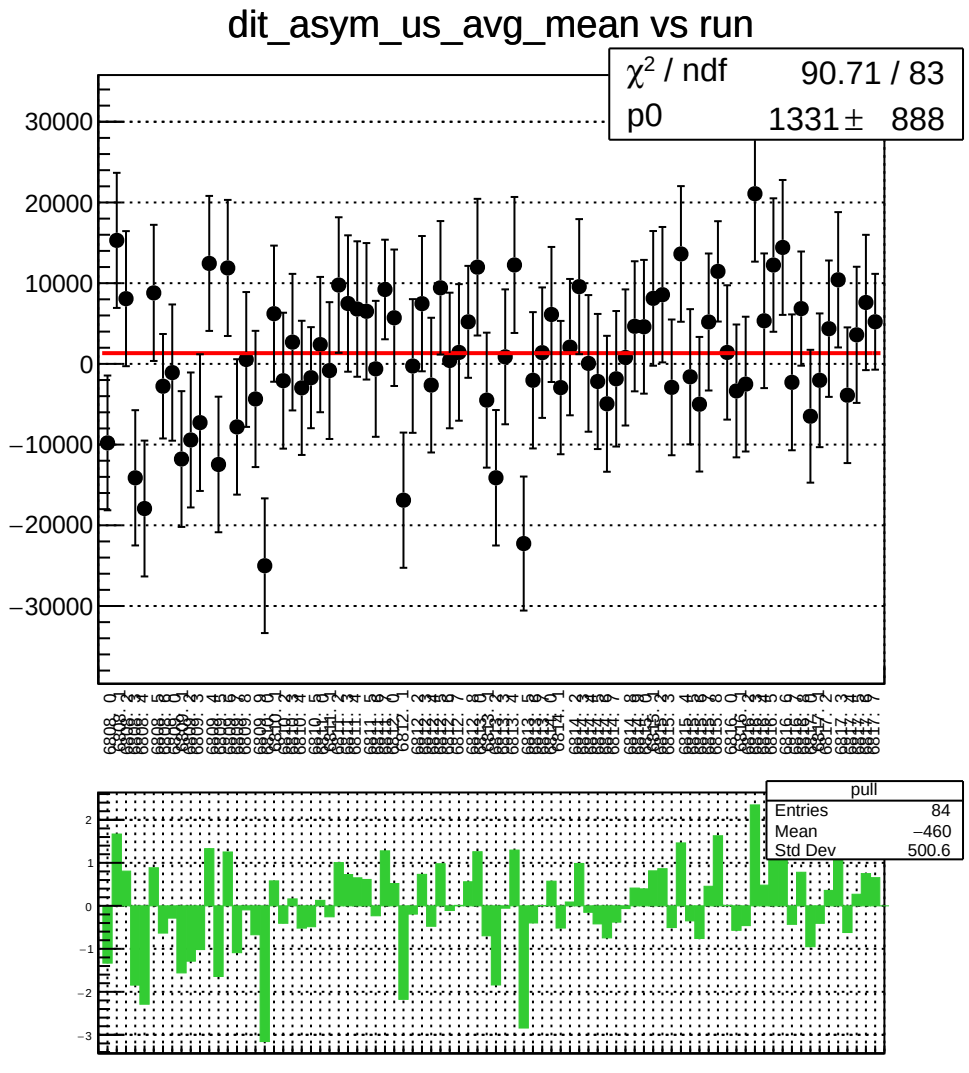
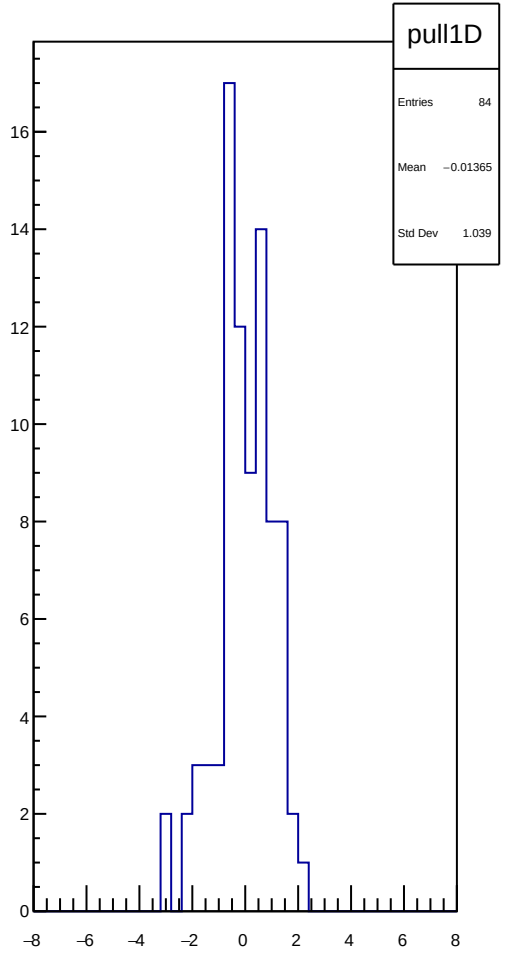
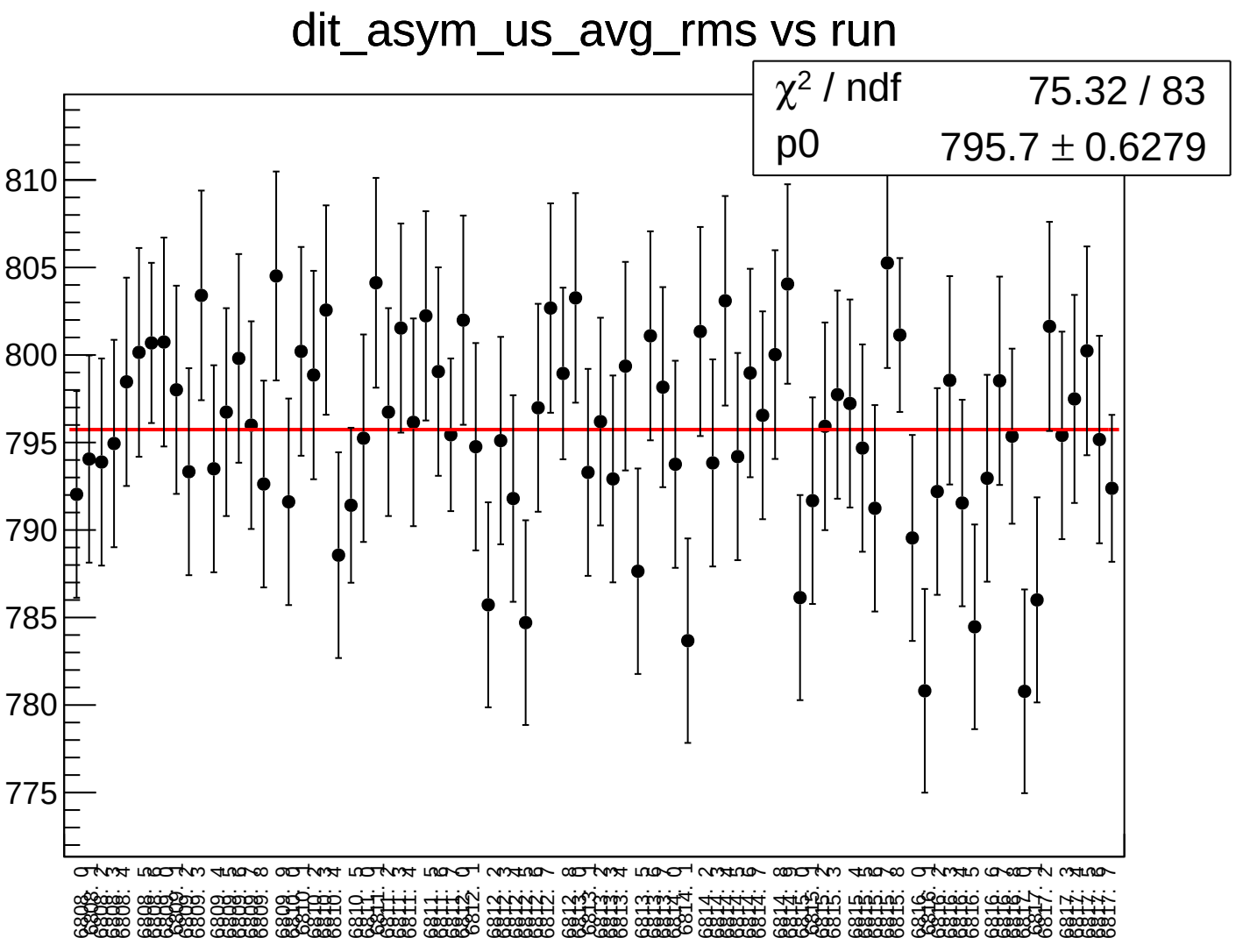
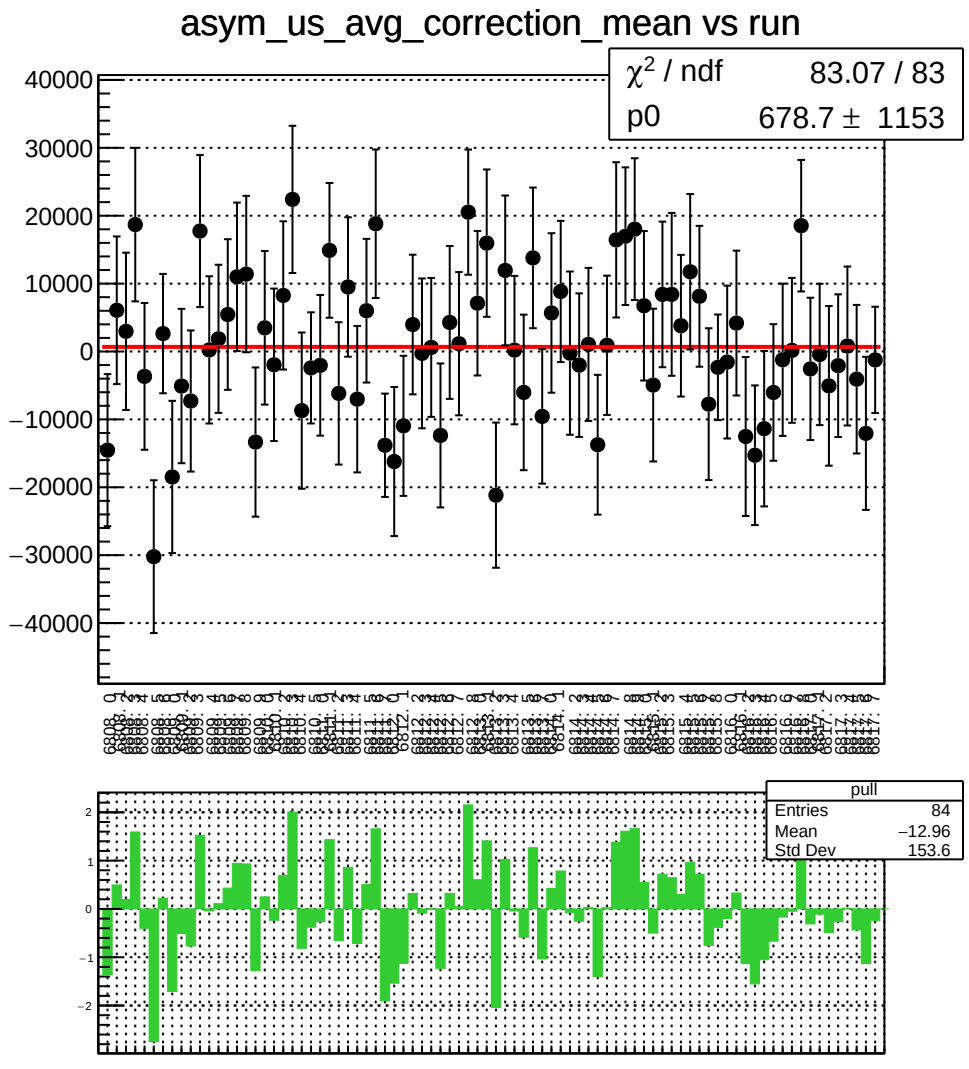
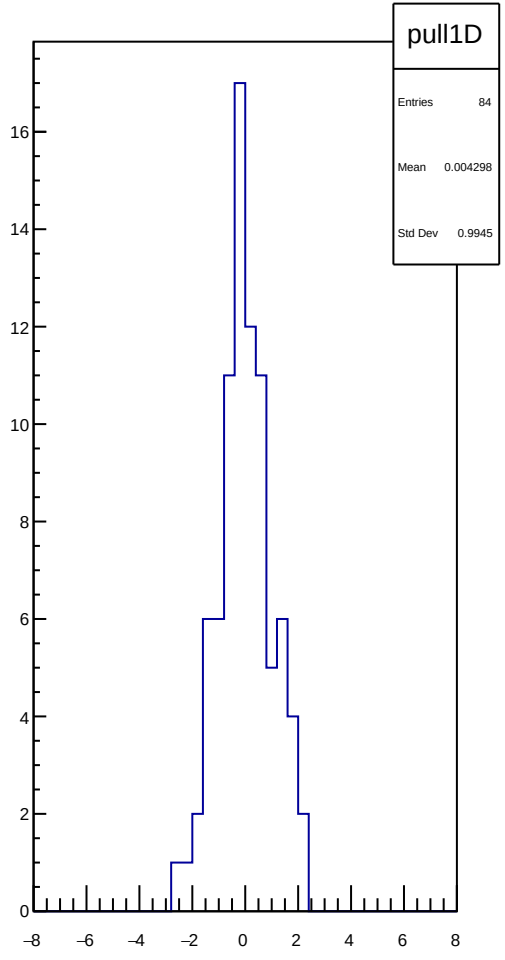
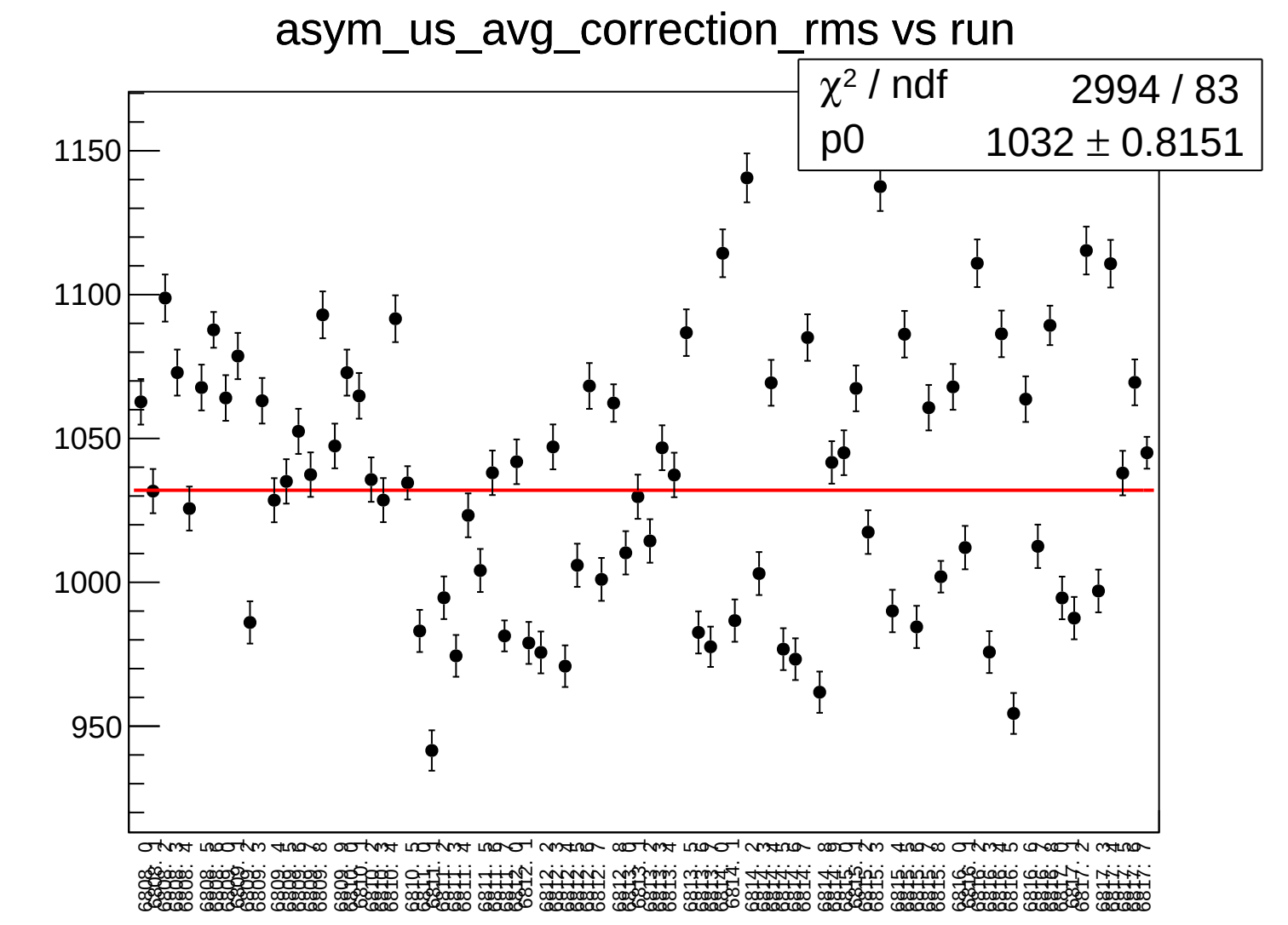

dit_asym_us_avg_mean vs run
χ² / ndf 90.71 / 83
p0 1331 ± 888
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −460
Std Dev 500.6
2
1
0
−1
−2
−3

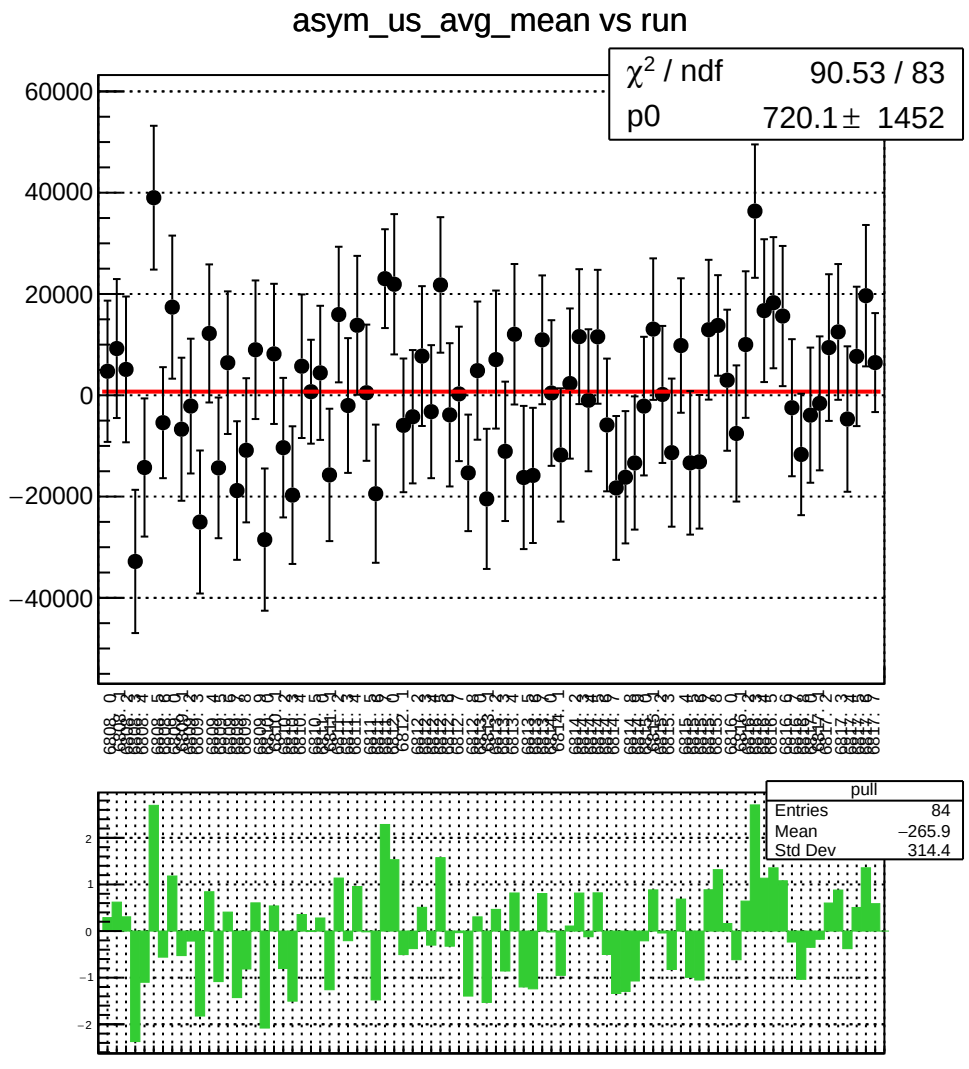

pull1D
Entries 84
Mean −0.01365
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

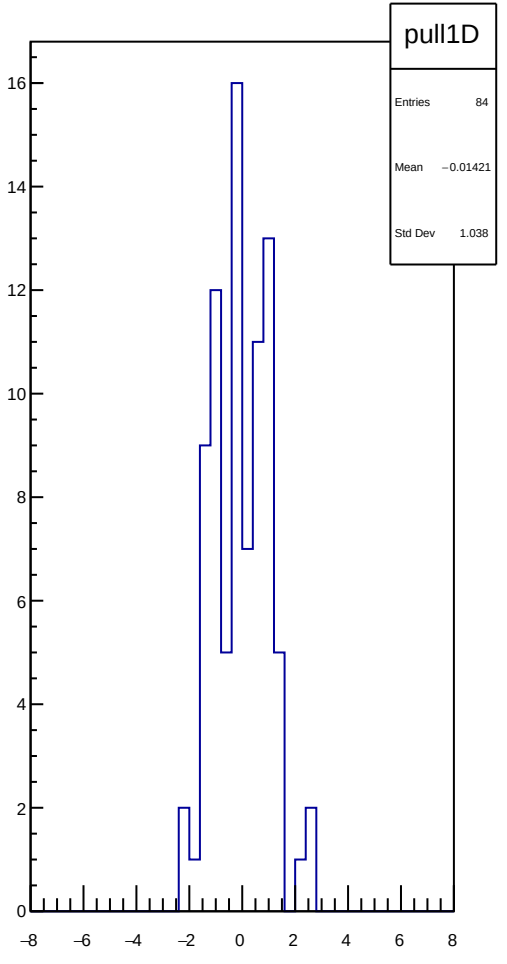

dit_asym_us_avg_rms vs run
χ^2 / ndf 75.32 / 83
p0 795.7 ± 0.6279
810
805
800
795
790
785
780
775

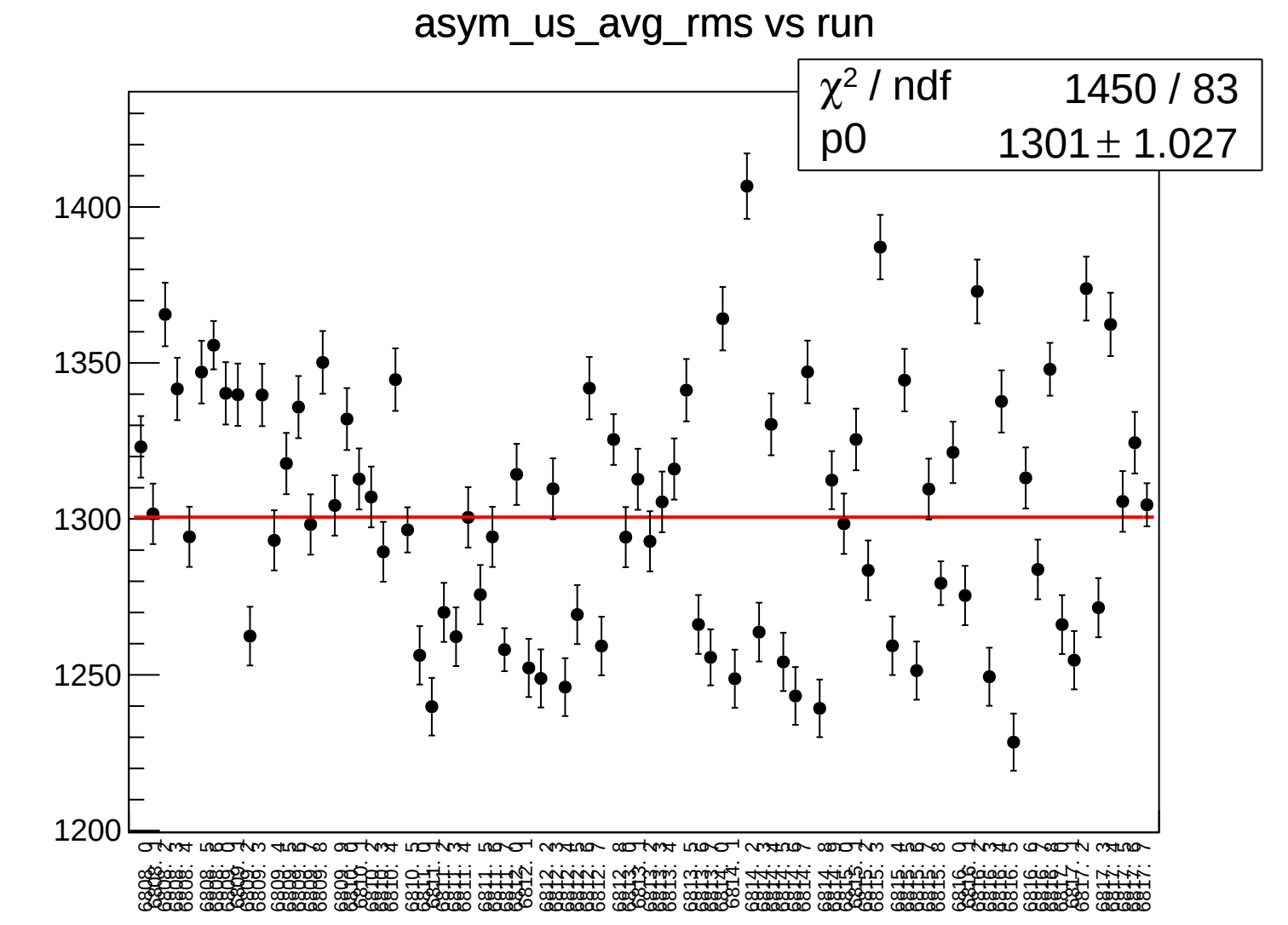

asym_us_avg_correction_mean vs run
χ² / ndf 83.07 / 83
p0 678.7 ± 1153
pull
Entries 84
Mean −12.96
Std Dev 153.6

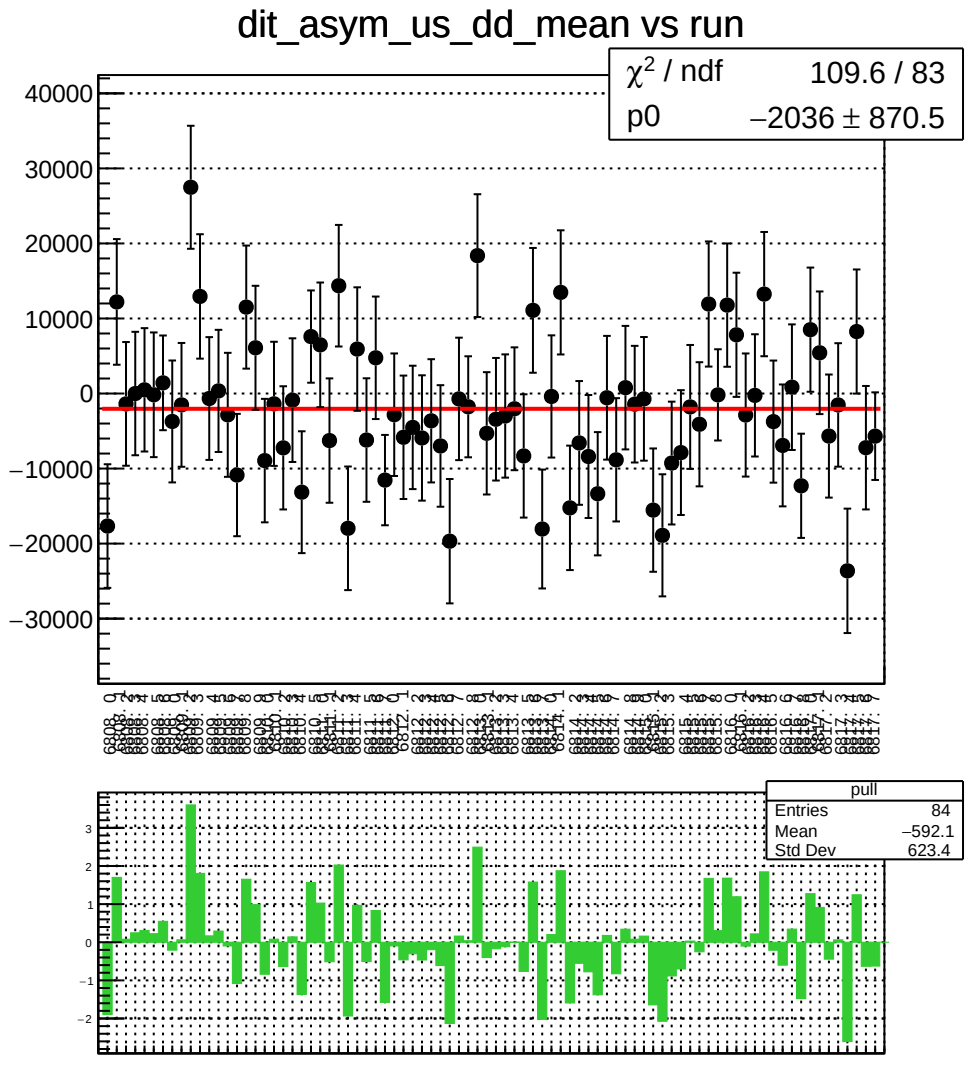

pull1D
Entries 84
Mean 0.004298
Std Dev 0.9945

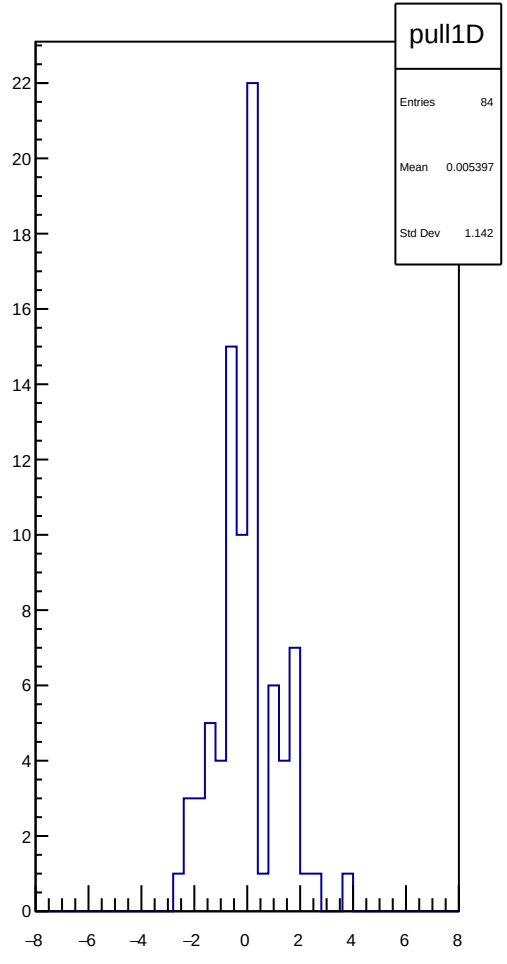

asym_us_avg_correction_rms vs run
χ² / ndf 2994 / 83
p0 1032 ± 0.8151
1150
1100
1050
1000
950

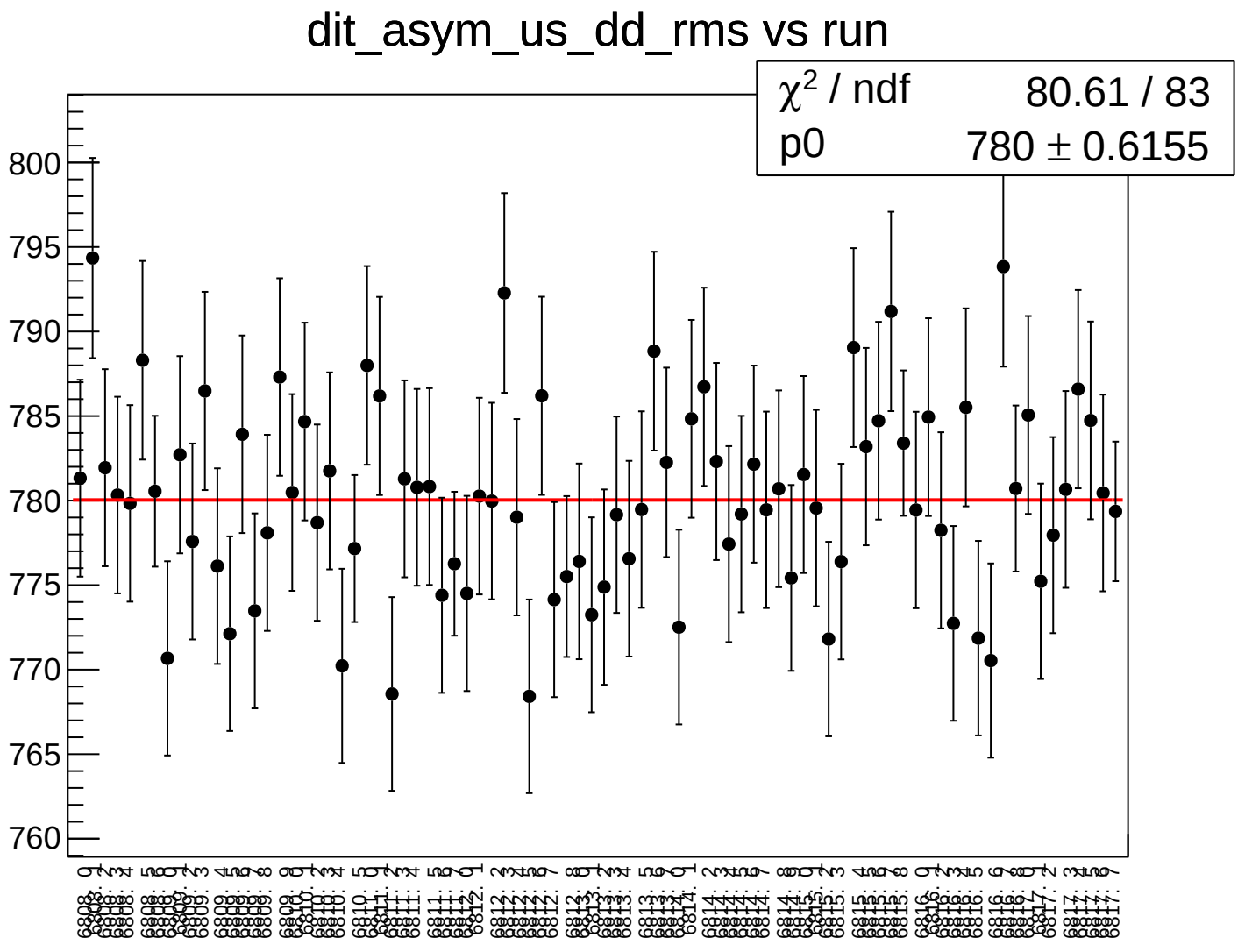

asym_us_avg_mean vs run
χ² / ndf 90.53 / 83
p0 720.1 ± 1452
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −265.9
Std Dev 314.4
2
1
0
−1
−2

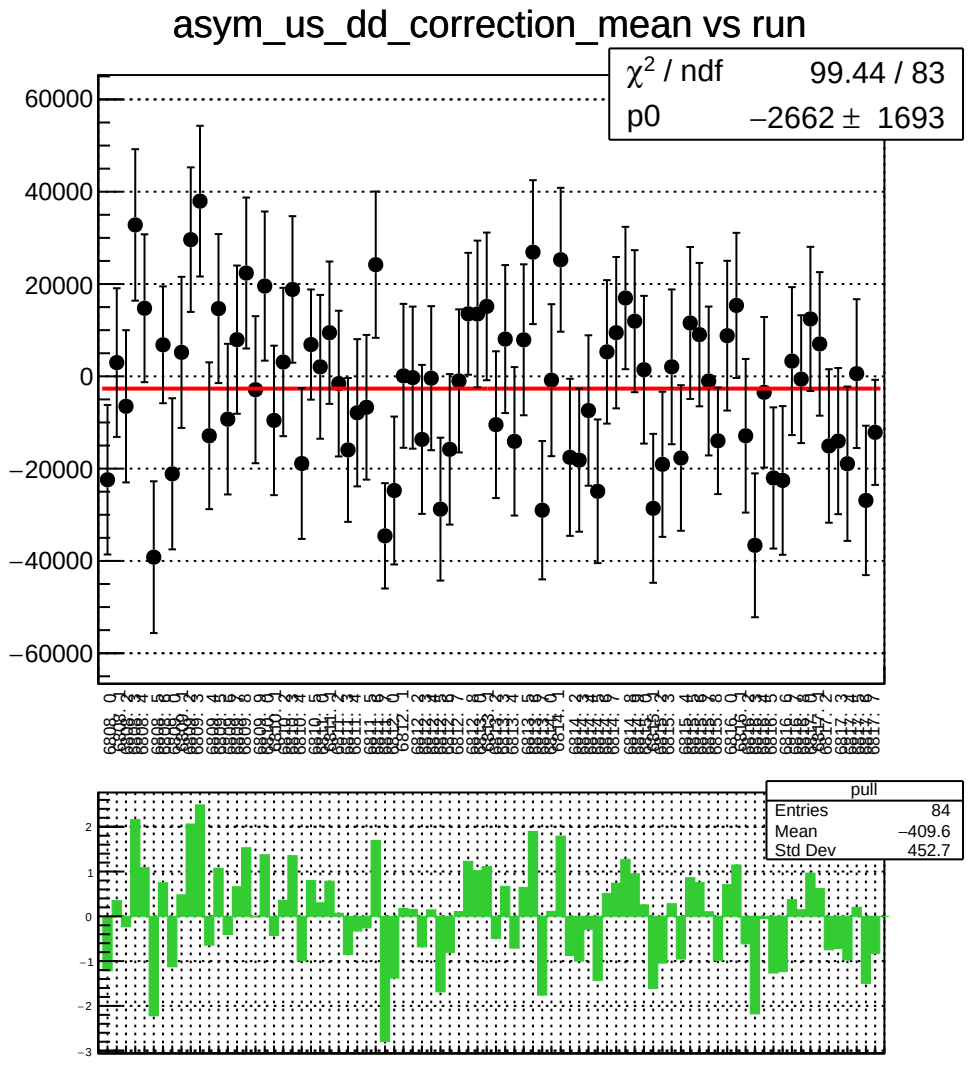

pull1D
Entries 84
Mean −0.01421
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

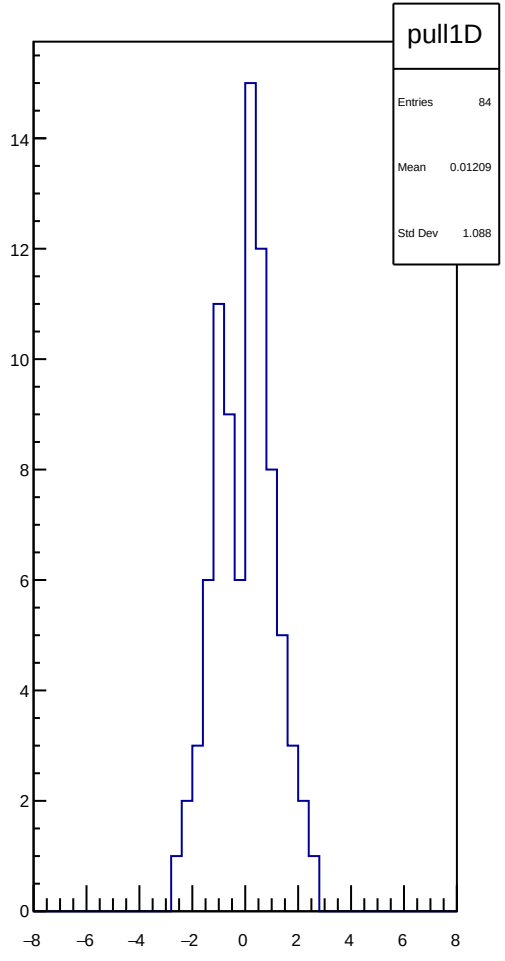

asym_us_avg_rms vs run
χ^2 / ndf 1450 / 83
p0 1301 ± 1.027
1400
1350
1300
1250
1200

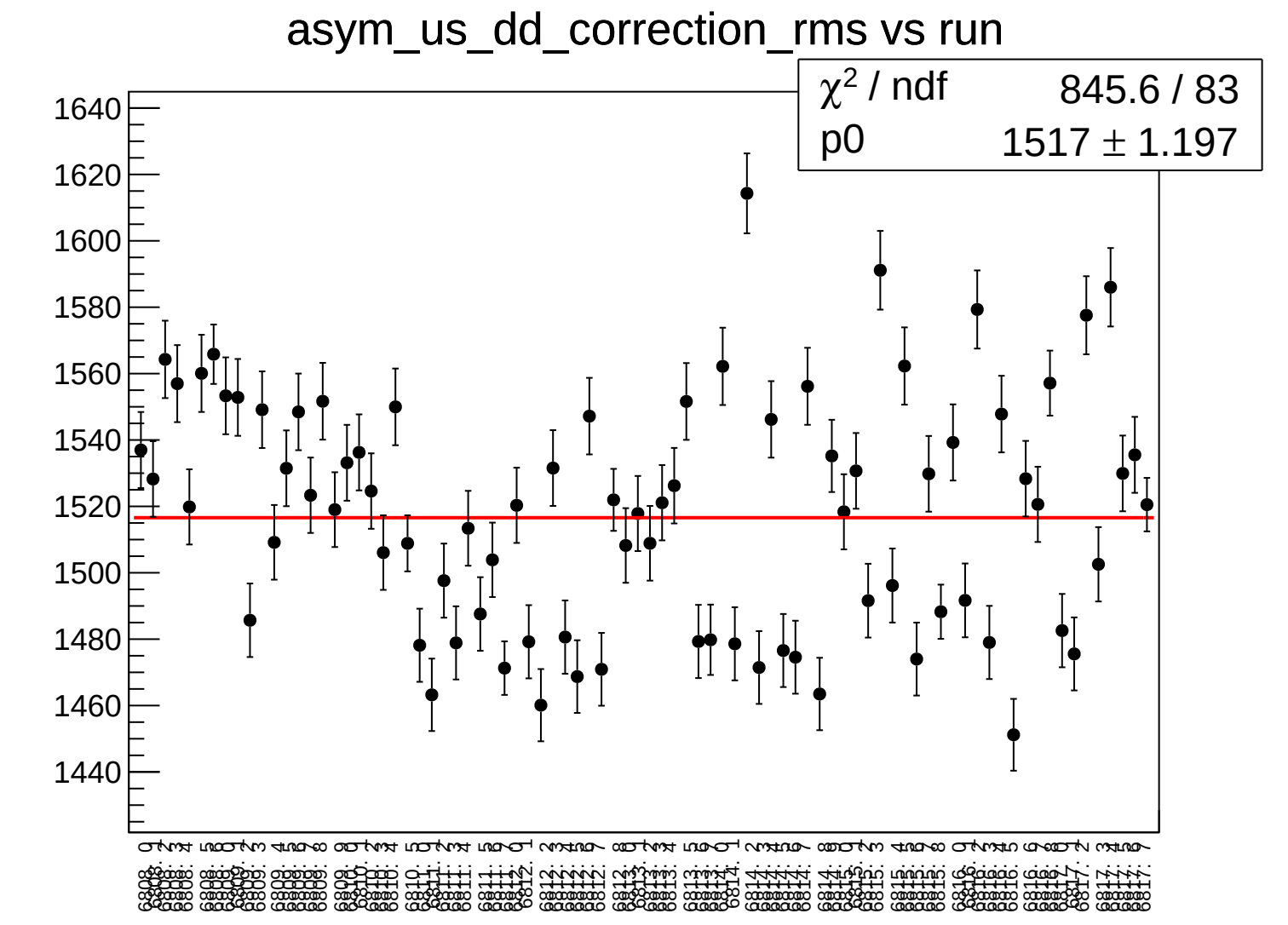

dit_asym_us_dd_mean vs run
χ² / ndf 109.6 / 83
p0 −2036 ± 870.5
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −592.1
Std Dev 623.4
3
2
1
0
−1
−2

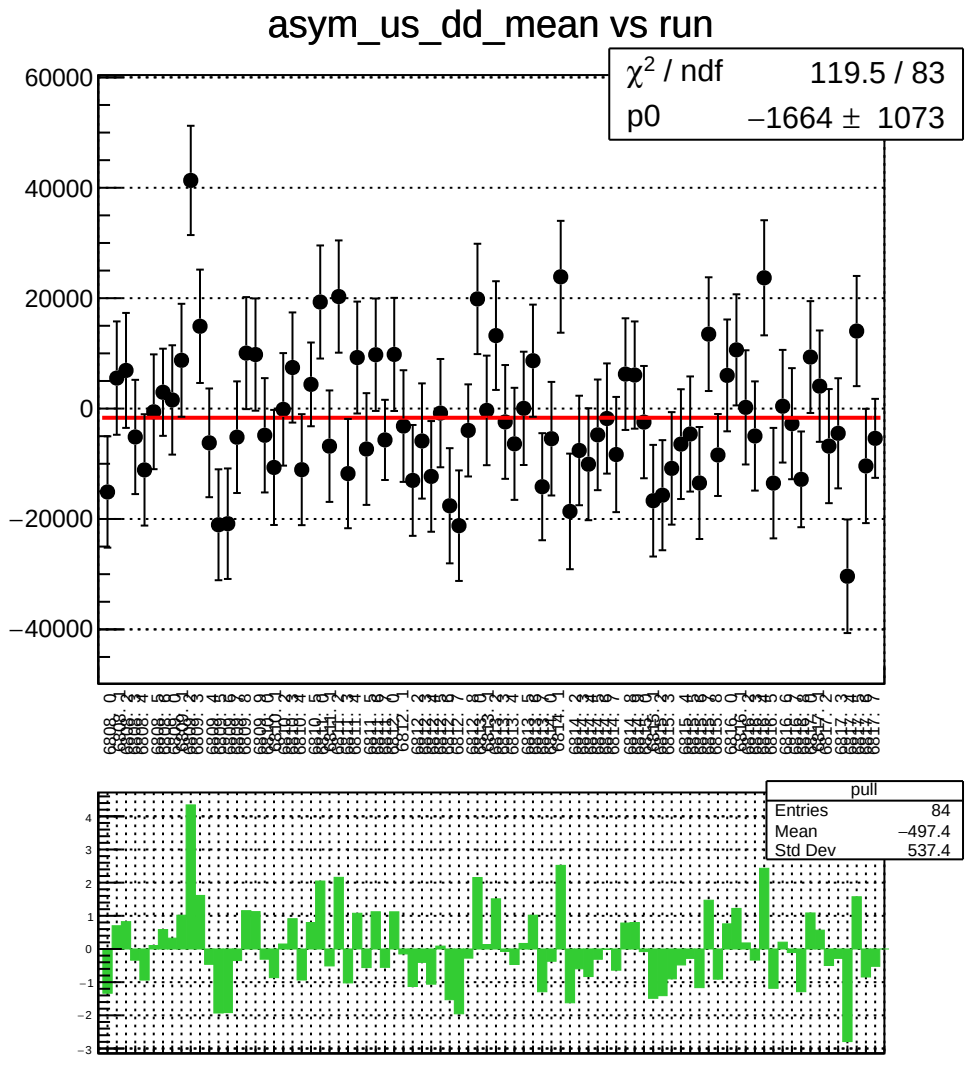

pull1D
Entries 84
Mean 0.005397
Std Dev 1.142
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

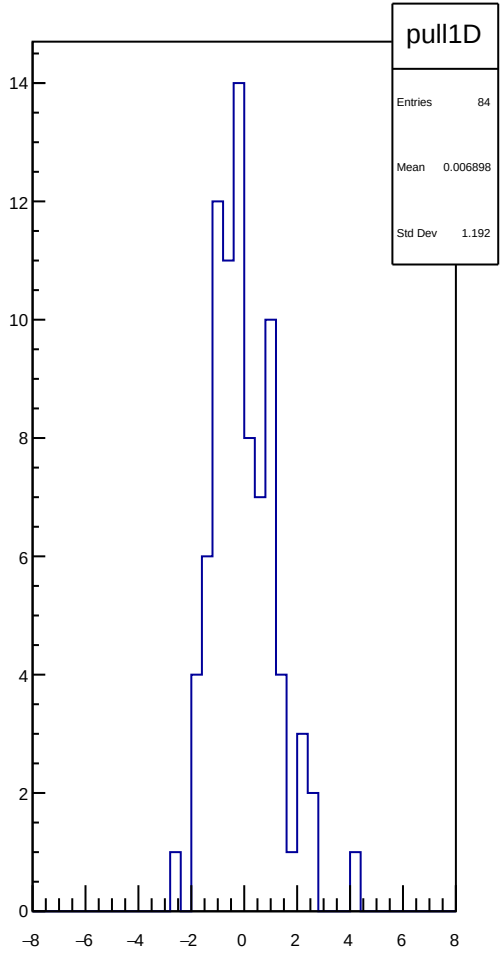

dit_asym_us_dd_rms vs run
χ² / ndf 80.61 / 83
p0 780 ± 0.6155
800
795
790
785
780
775
770
765
760

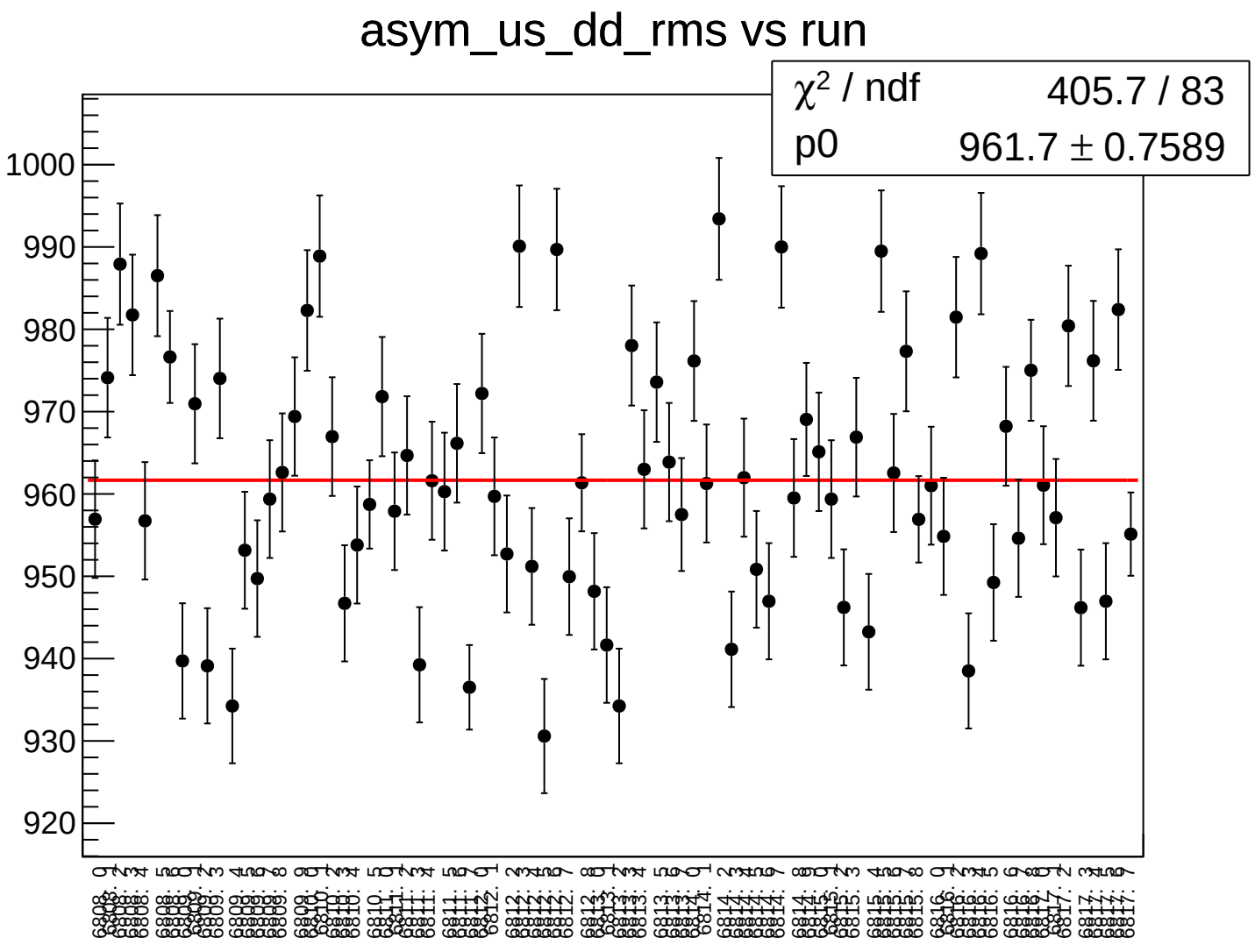

asym_us_dd_correction_mean vs run
χ² / ndf 99.44 / 83
p0 −2662 ± 1693
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −409.6
Std Dev 452.7
2
1
0
−1
−2
−3

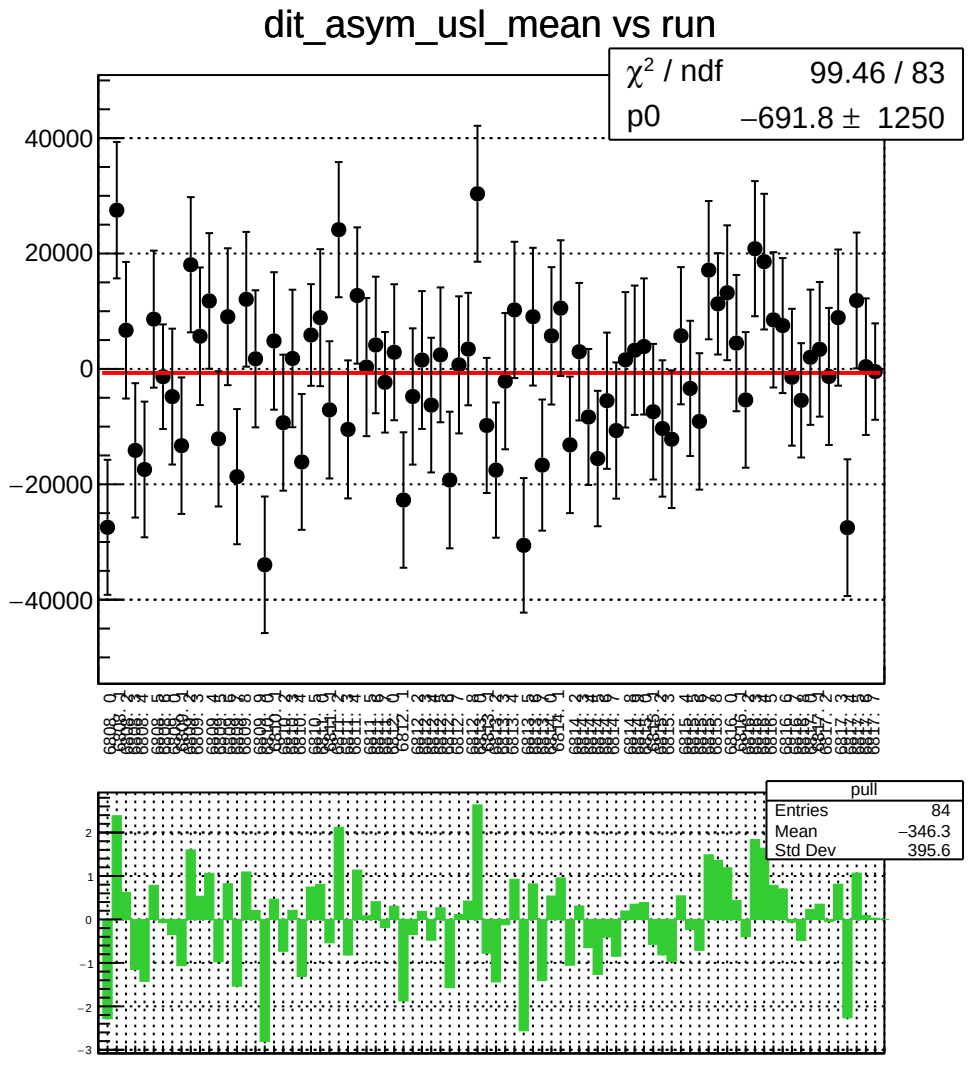

pull1D
Entries 84
Mean 0.01209
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

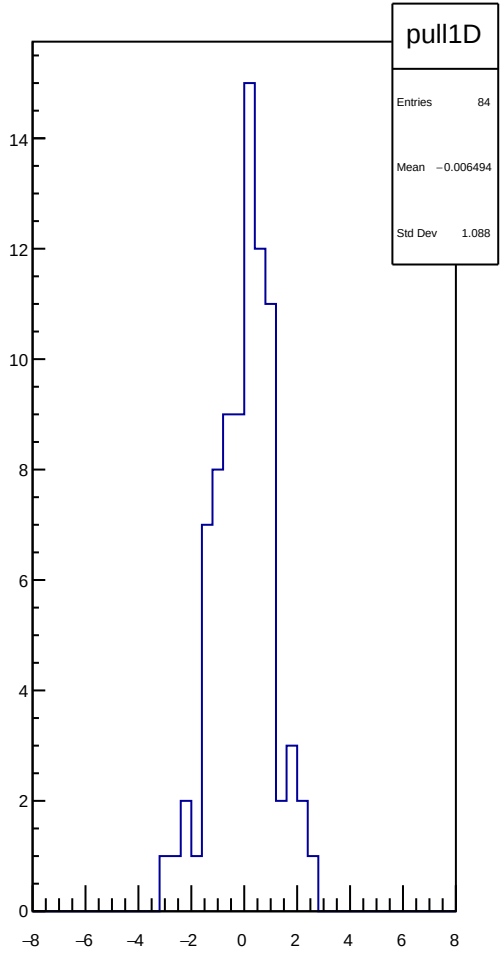

asym_us_dd_correction_rms vs run
χ² / ndf 845.6 / 83
p0 1517 ± 1.197
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440

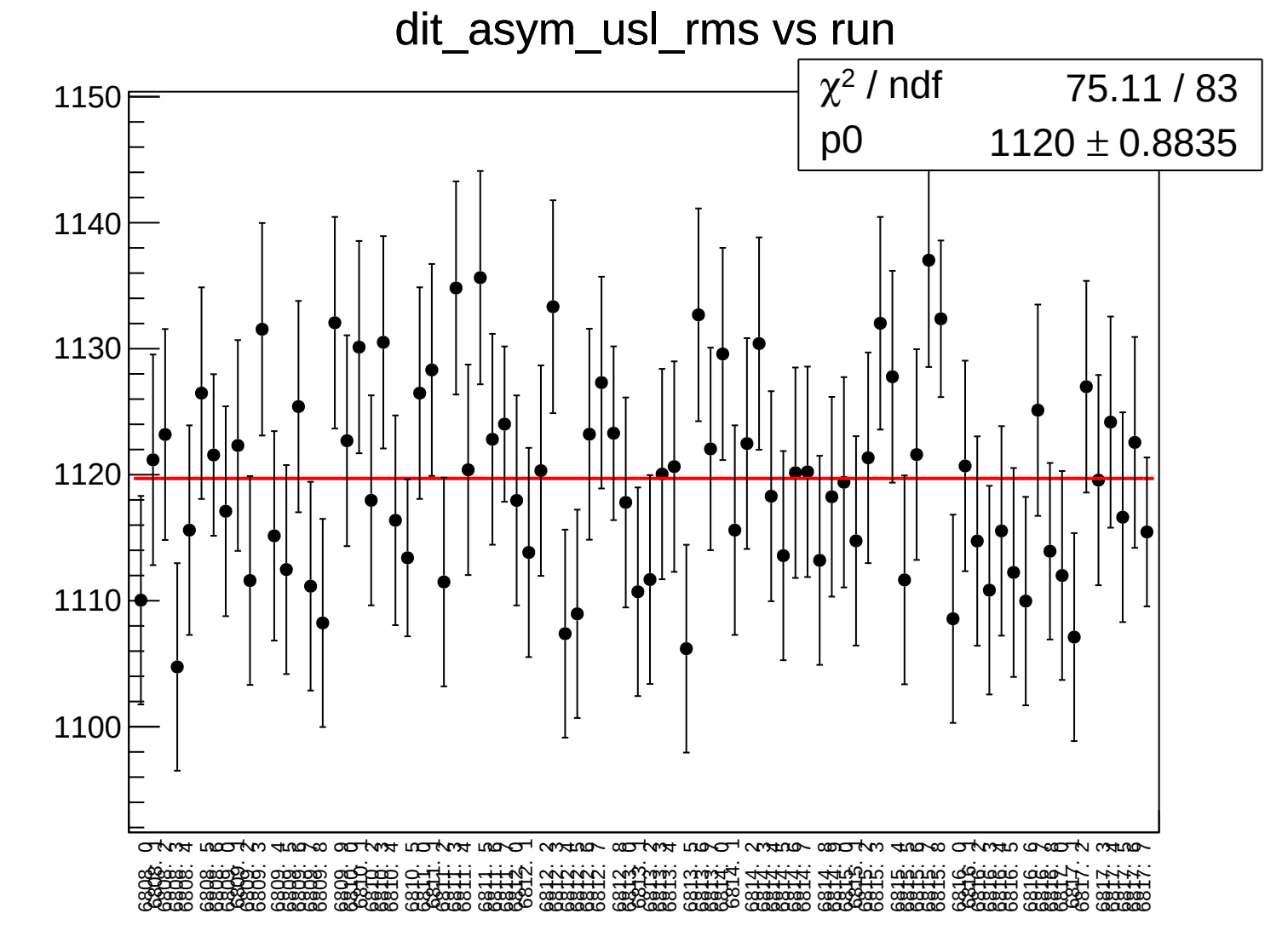

asym_us_dd_mean vs run
χ² / ndf 119.5 / 83
p0 −1664 ± 1073
60000
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −497.4
Std Dev 537.4
4
3
2
1
0
−1
−2
−3

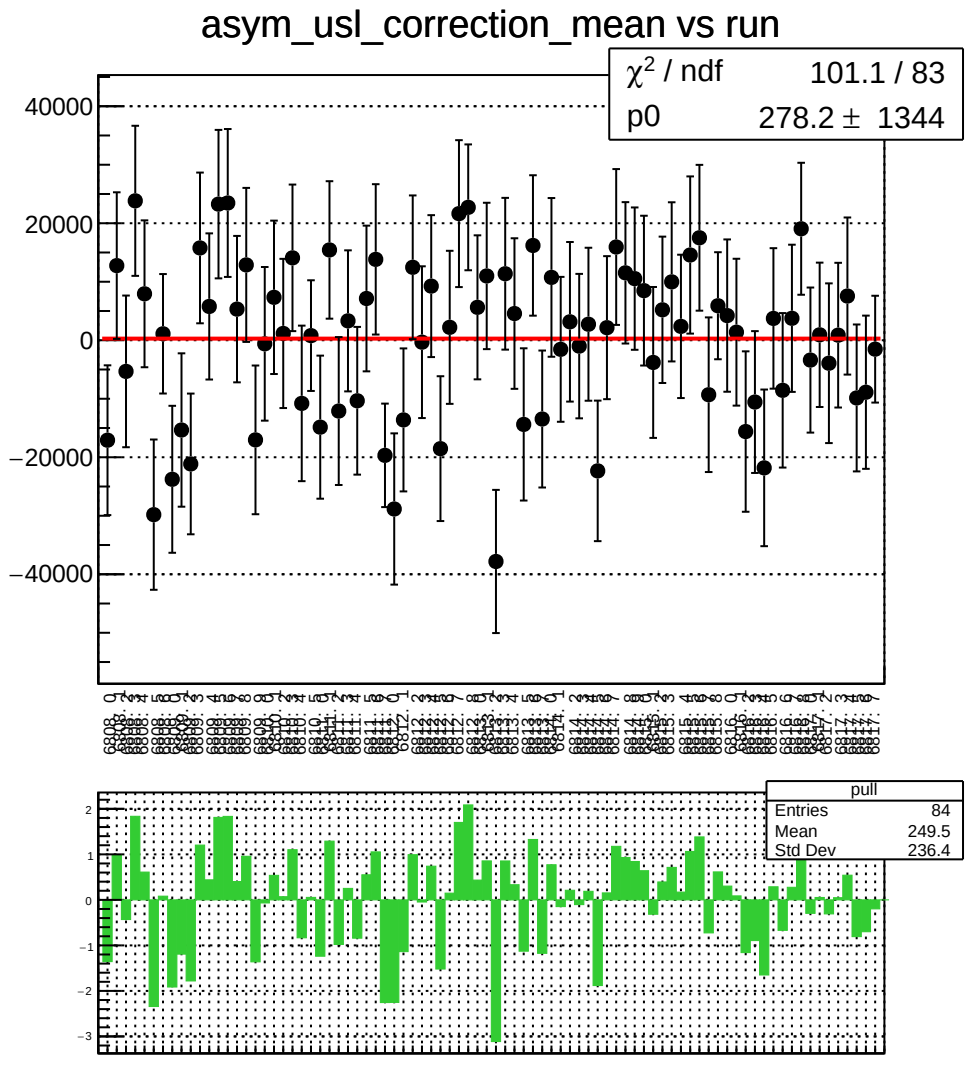

pull1D
Entries 84
Mean 0.006898
Std Dev 1.192
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

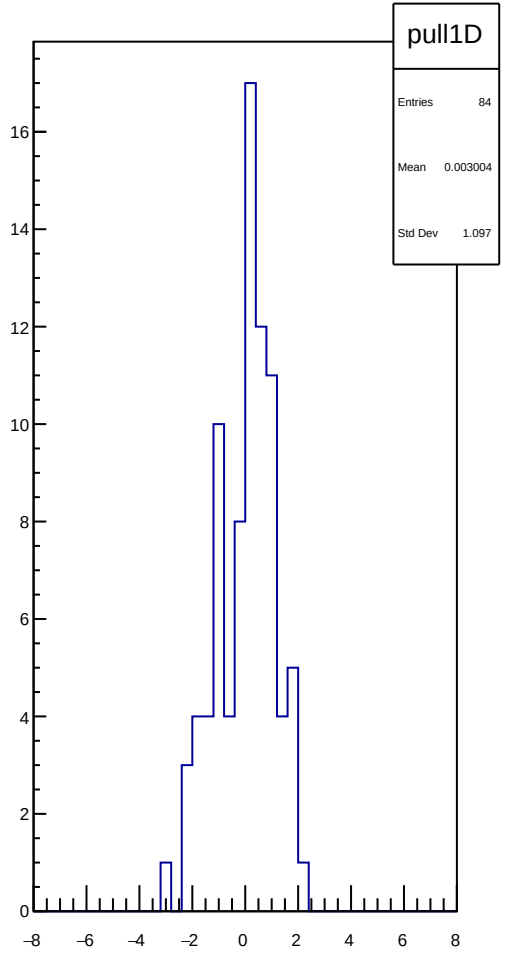

asym_us_dd_rms vs run
χ^2 / ndf 405.7 / 83
p0 961.7 ± 0.7589
1000
990
980
970
960
950
940
930
920

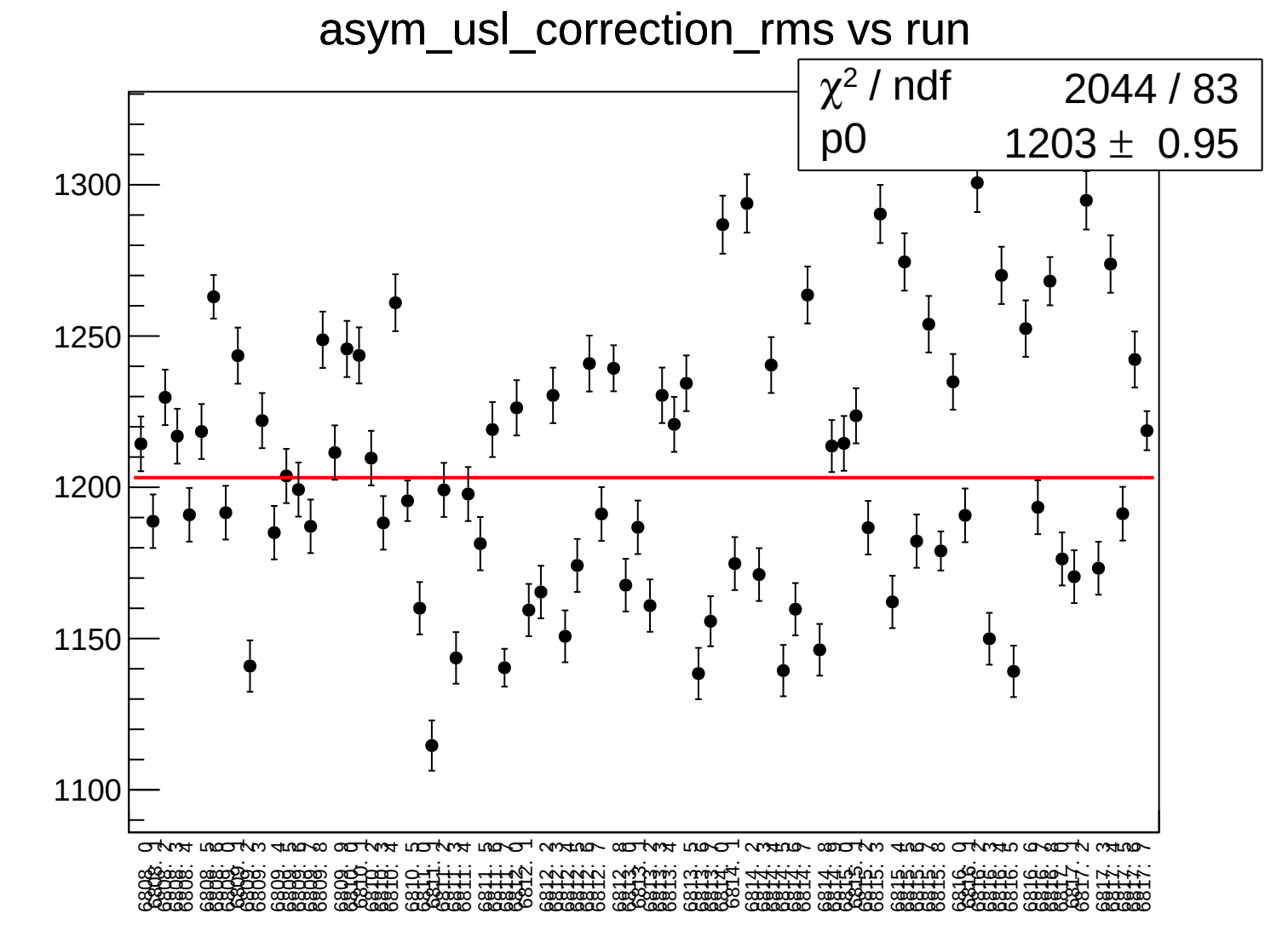

dit_asym_usl_mean vs run
χ² / ndf 99.46 / 83
p0 −691.8 ± 1250
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −346.3
Std Dev 395.6
2
1
0
−1
−2
−3

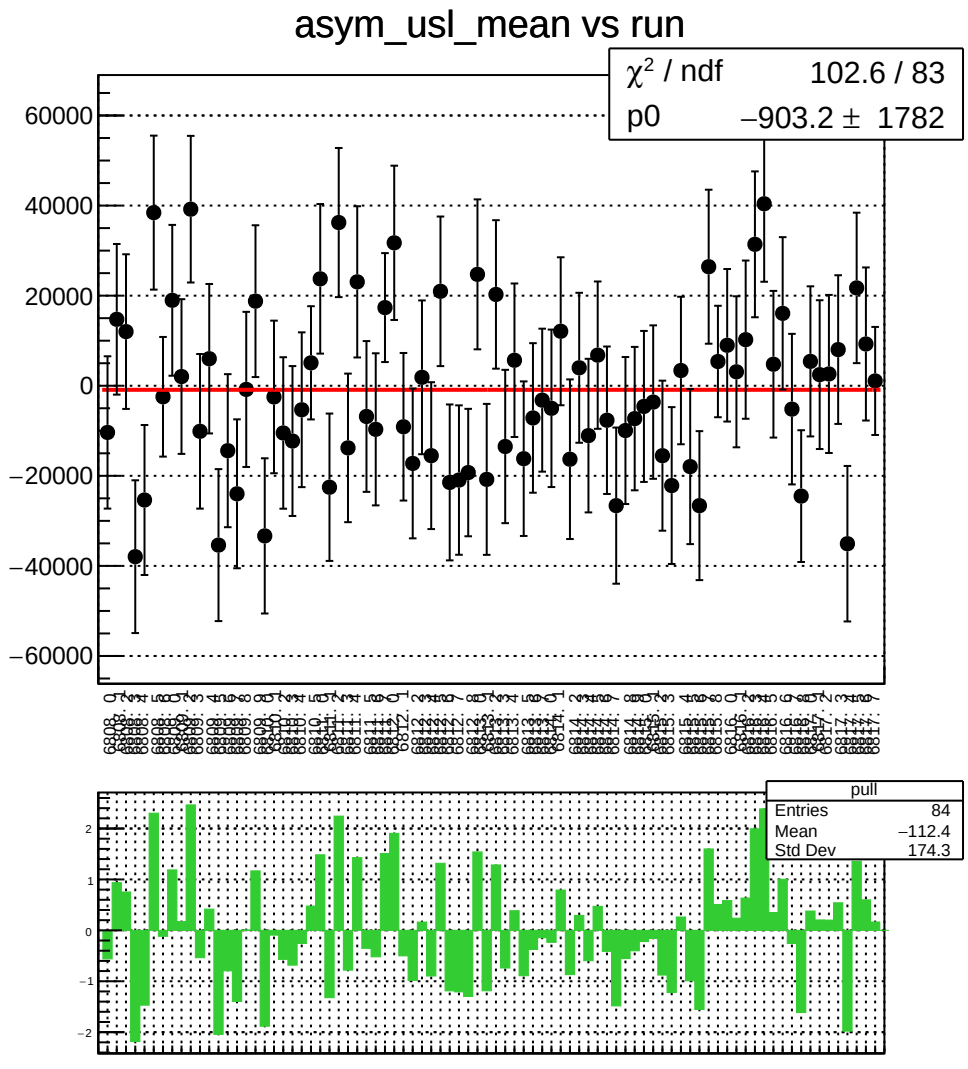

pull1D
Entries 84
Mean −0.006494
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

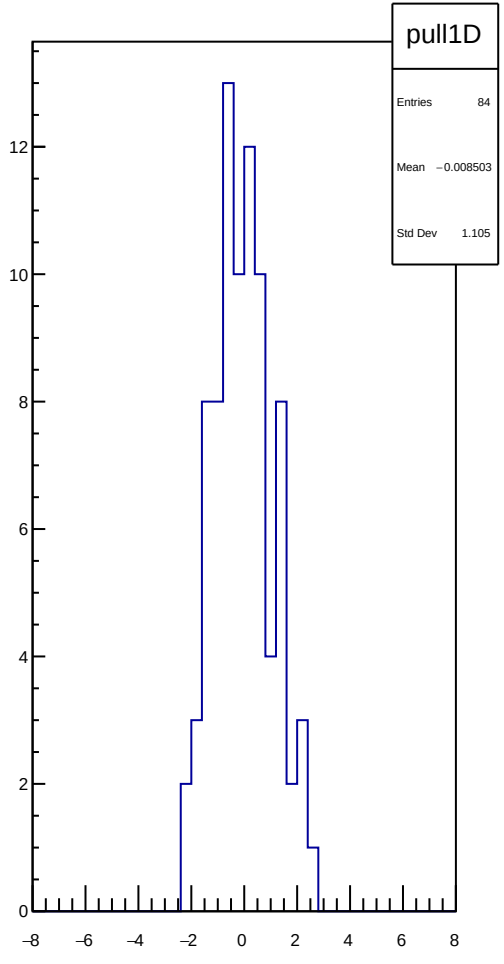

dit_asym_usl_rms vs run
χ² / ndf 75.11 / 83
p0 1120 ± 0.8835
1150
1140
1130
1120
1110
1100

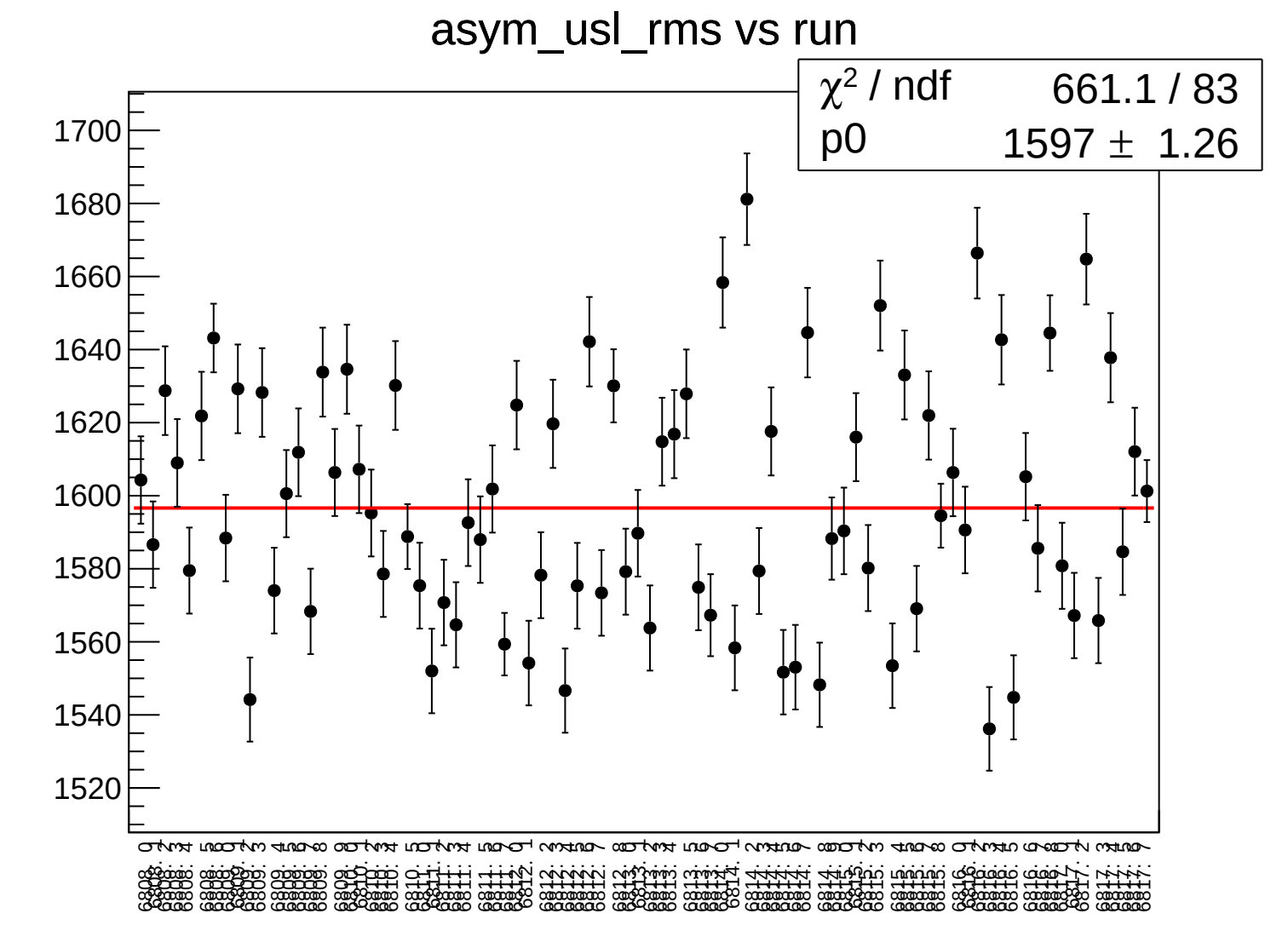

asym_usl_correction_mean vs run
χ² / ndf 101.1 / 83
p0 278.2 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 84
Mean 249.5
Std Dev 236.4
2
1
0
−1
−2
−3

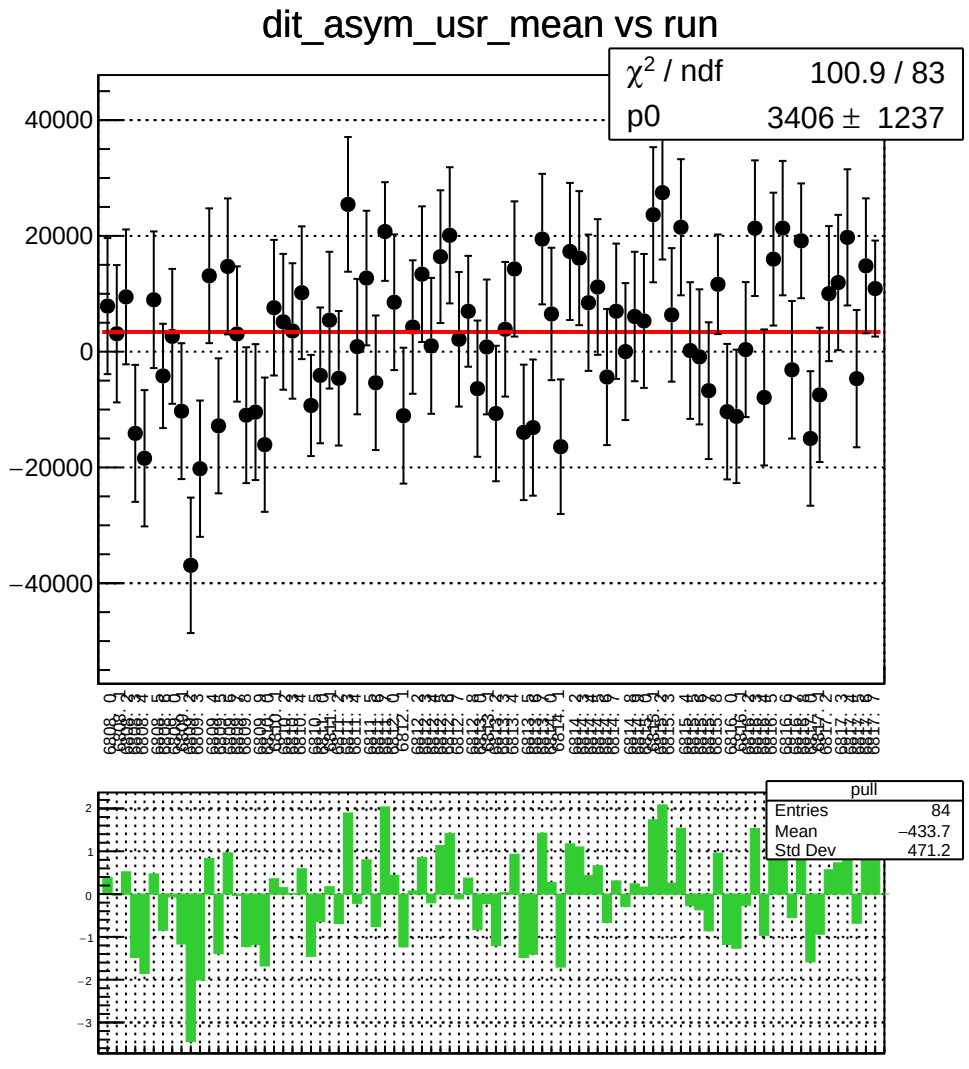

pull1D
Entries 84
Mean 0.003004
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

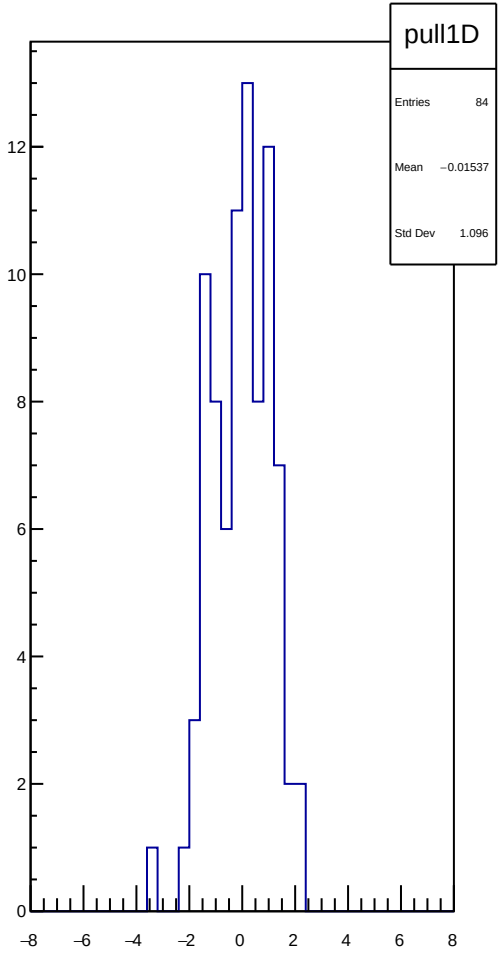

asym_usl_correction_rms vs run
χ² / ndf 2044 / 83
p0 1203 ± 0.95
1300
1250
1200
1150
1100

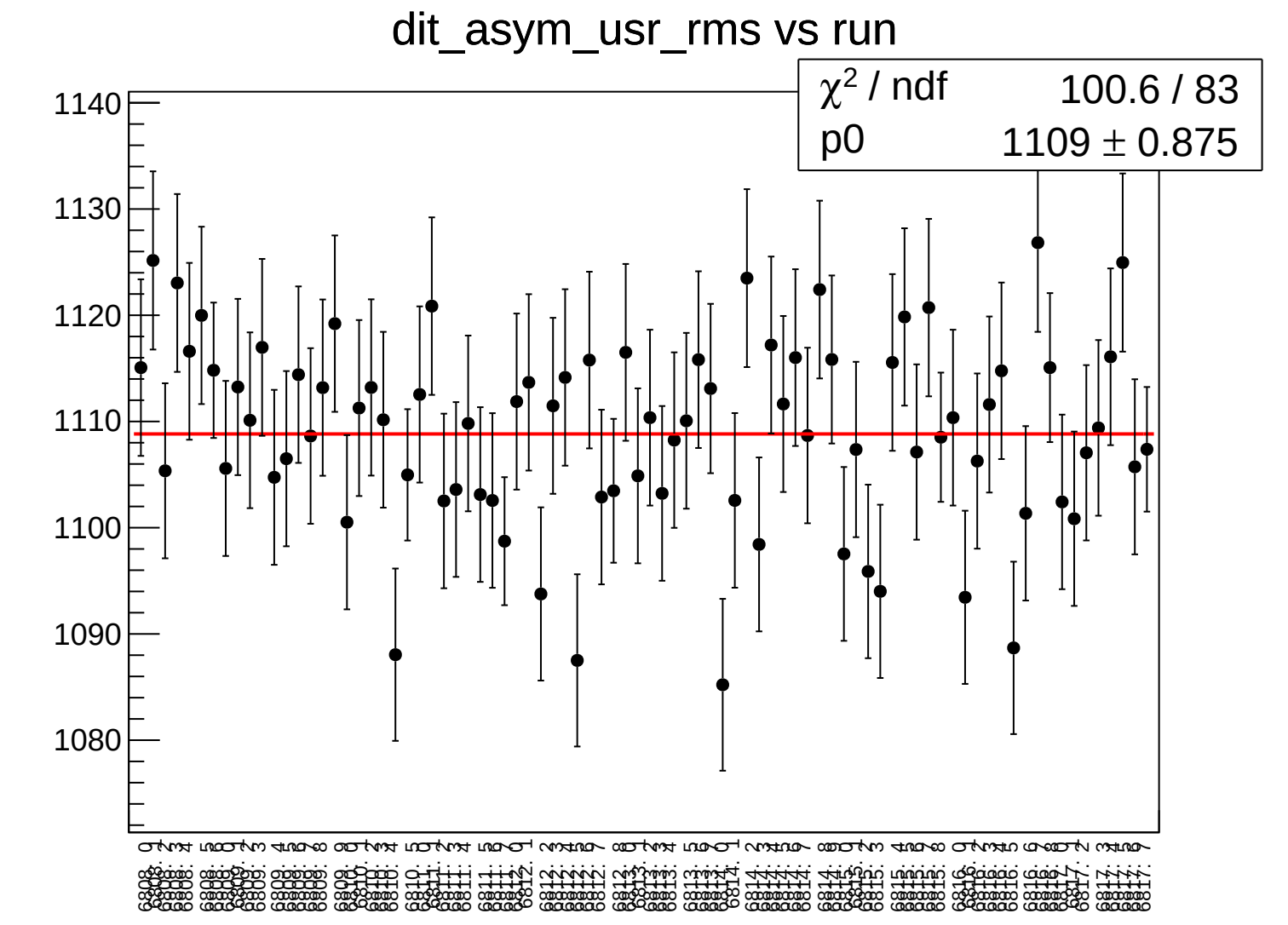

asym_usl_mean vs run
χ² / ndf 102.6 / 83
p0 −903.2 ± 1782
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −112.4
Std Dev 174.3
2
1
0
−1
−2

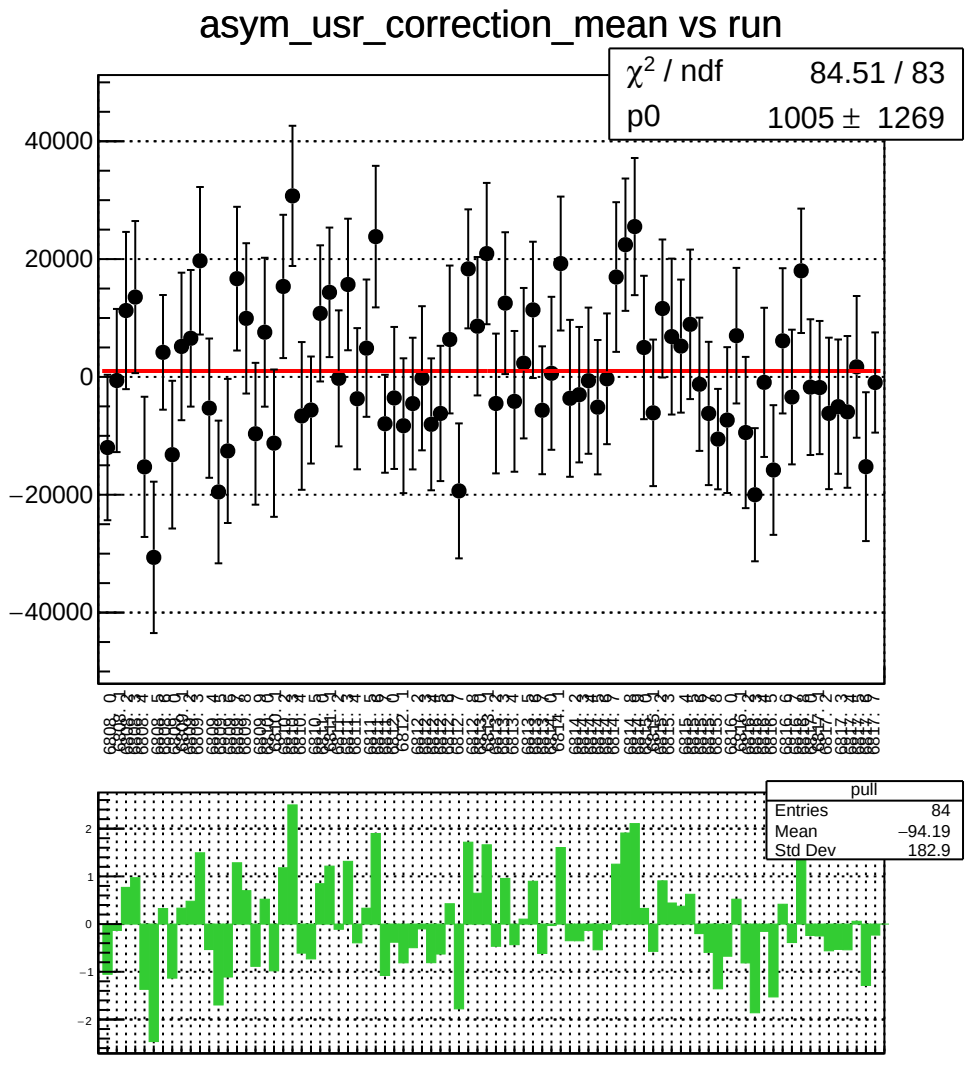

pull1D
Entries 84
Mean −0.008503
Std Dev 1.105
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

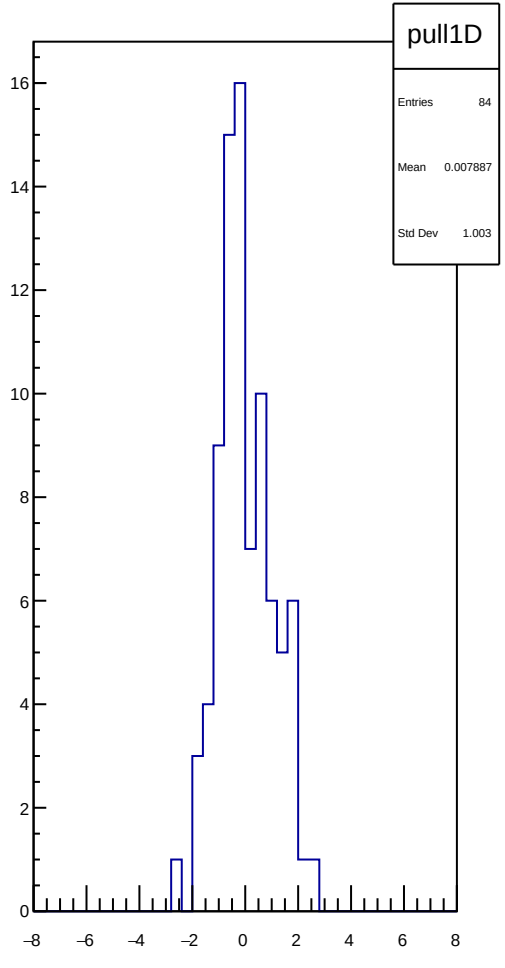

asym_usl_rms vs run
χ² / ndf 661.1 / 83
p0 1597 ± 1.26
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

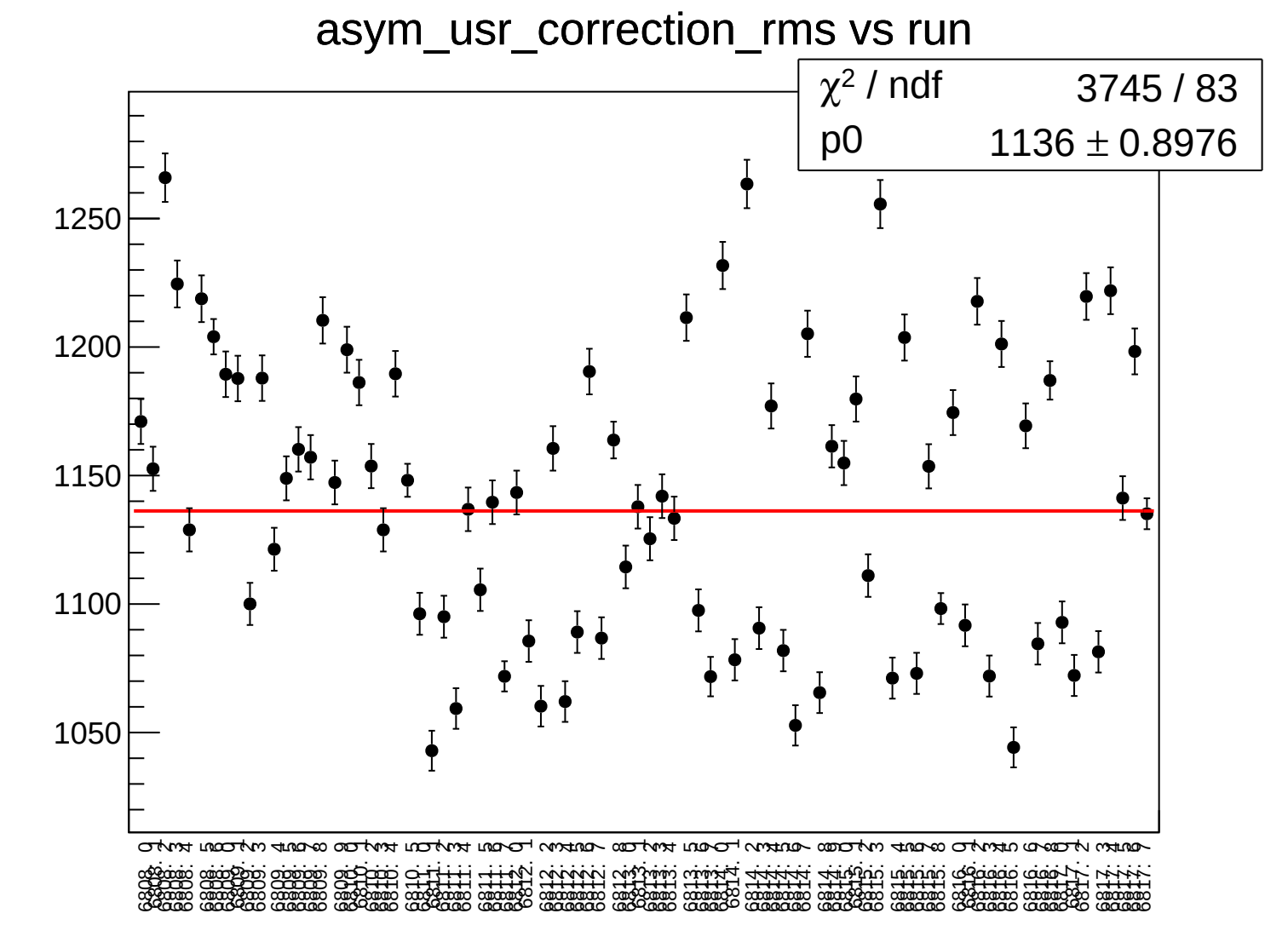

dit_asym_usr_mean vs run
χ² / ndf 100.9 / 83
p0 3406 ± 1237
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −433.7
Std Dev 471.2
2
1
0
−1
−2
−3

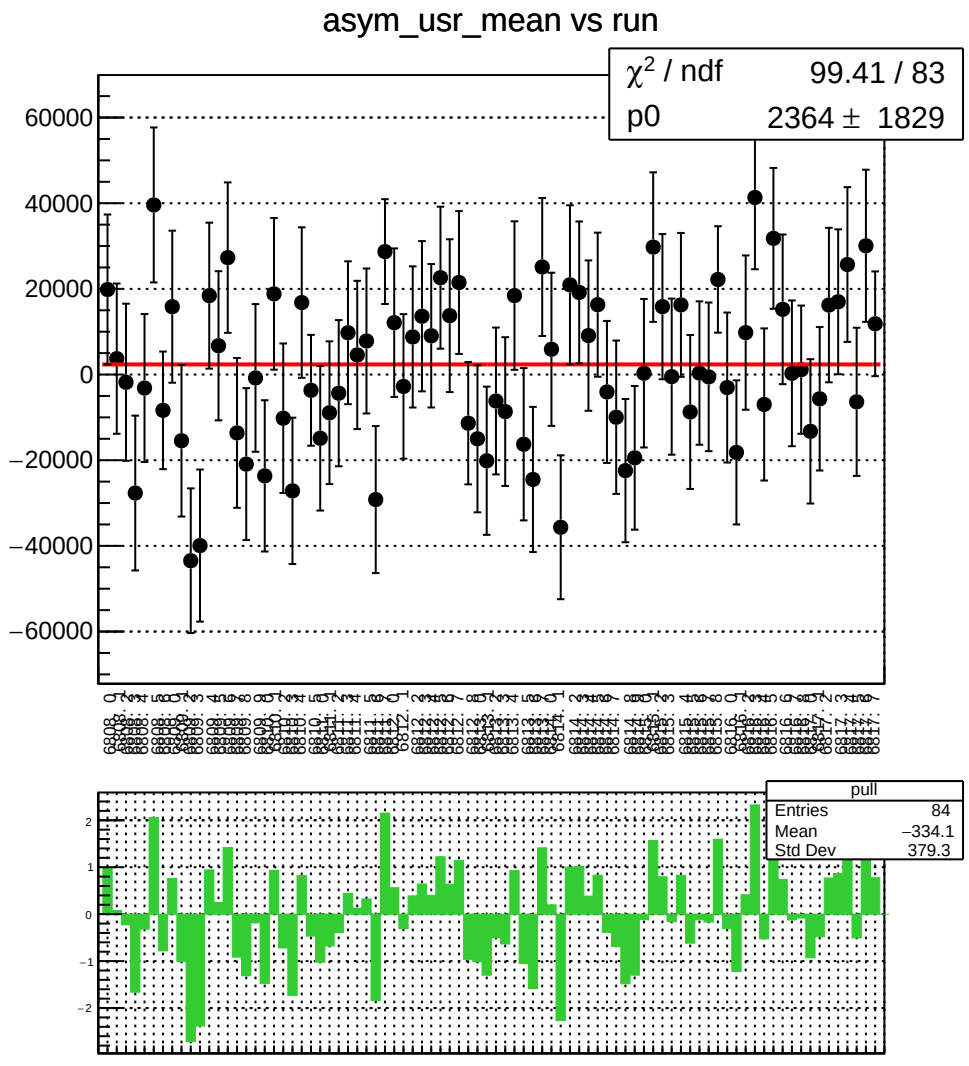

pull1D
Entries 84
Mean −0.01537
Std Dev 1.096
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

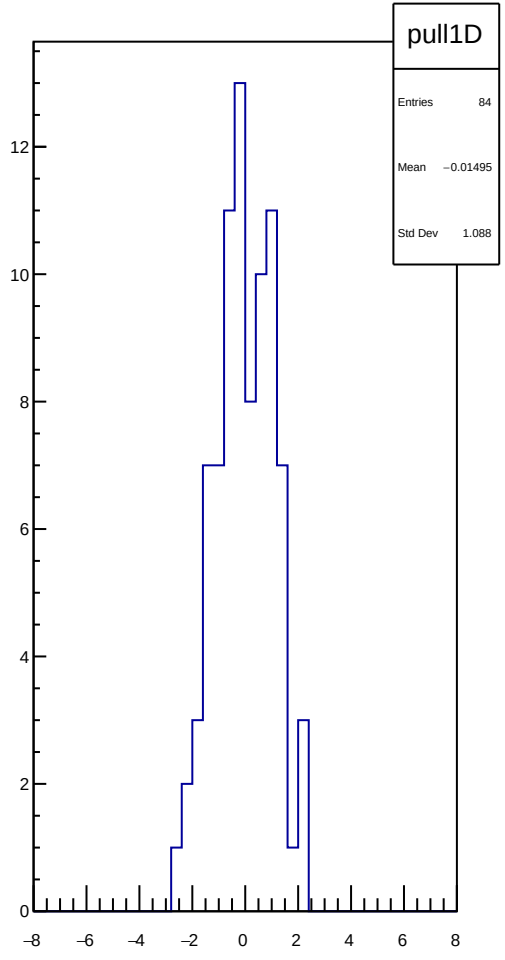

dit_asym_usr_rms vs run
χ² / ndf 100.6 / 83
p0 1109 ± 0.875
1140
1130
1120
1110
1100
1090
1080

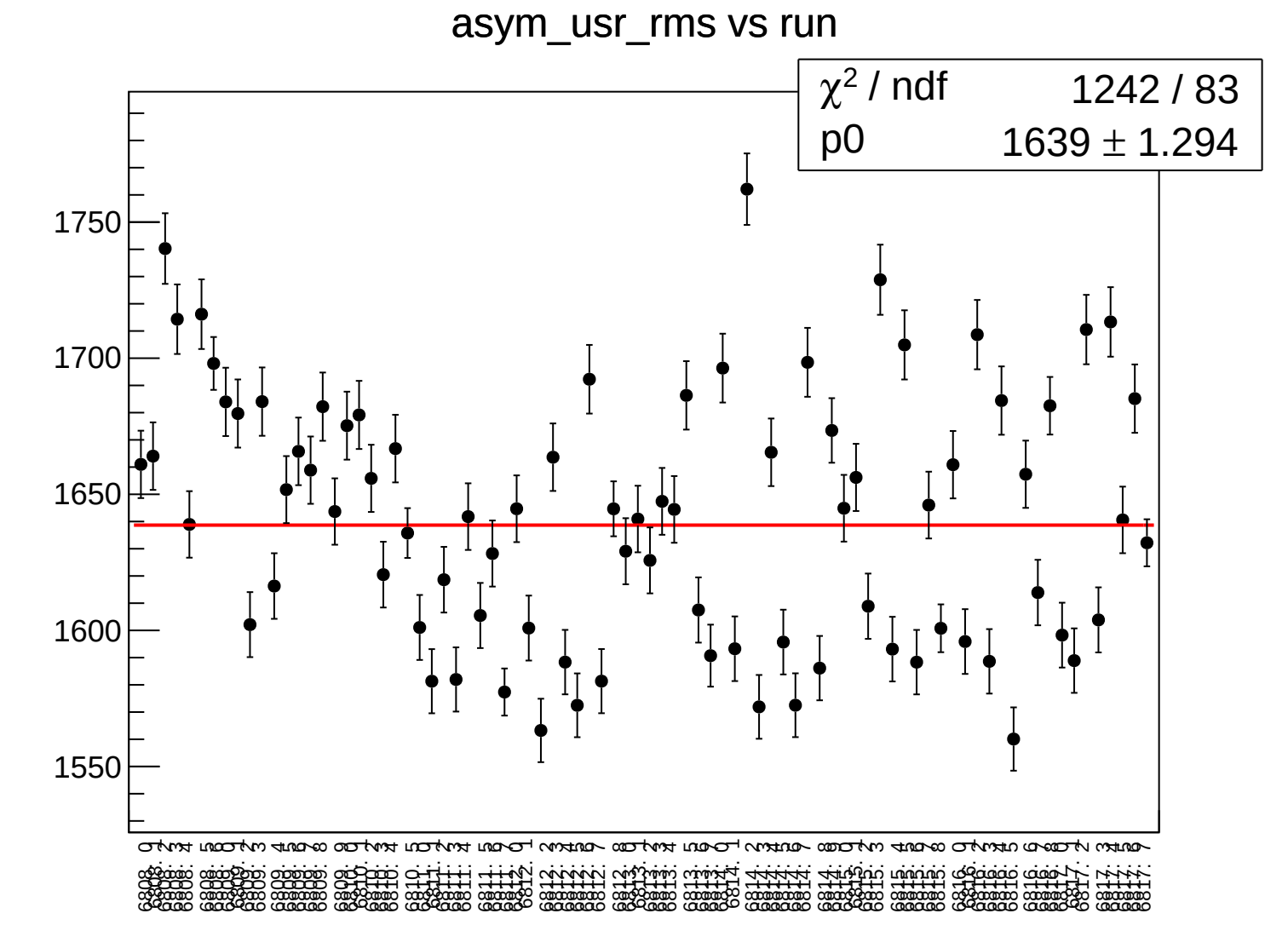

asym_usr_correction_mean vs run
χ² / ndf 84.51 / 83
p0 1005 ± 1269
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −94.19
Std Dev 182.9
2
1
0
−1
−2

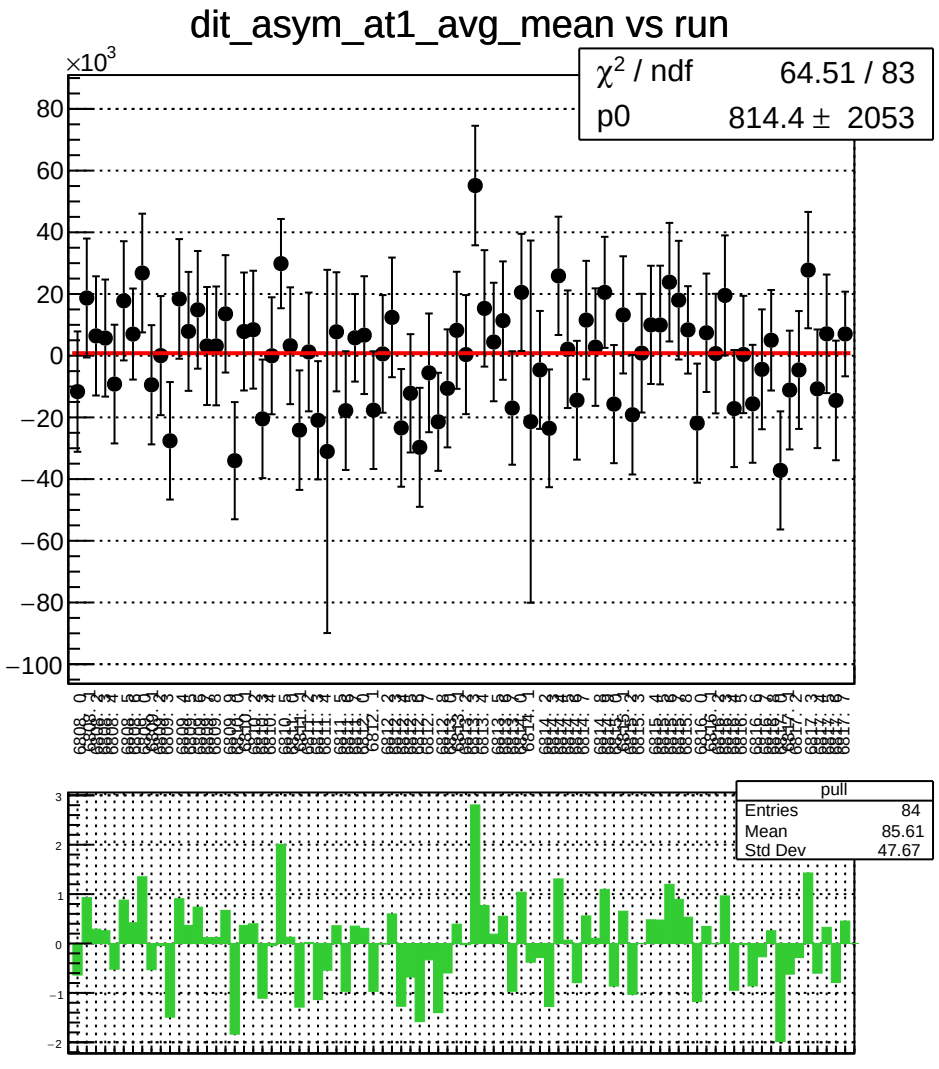

pull1D
Entries 84
Mean 0.007887
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

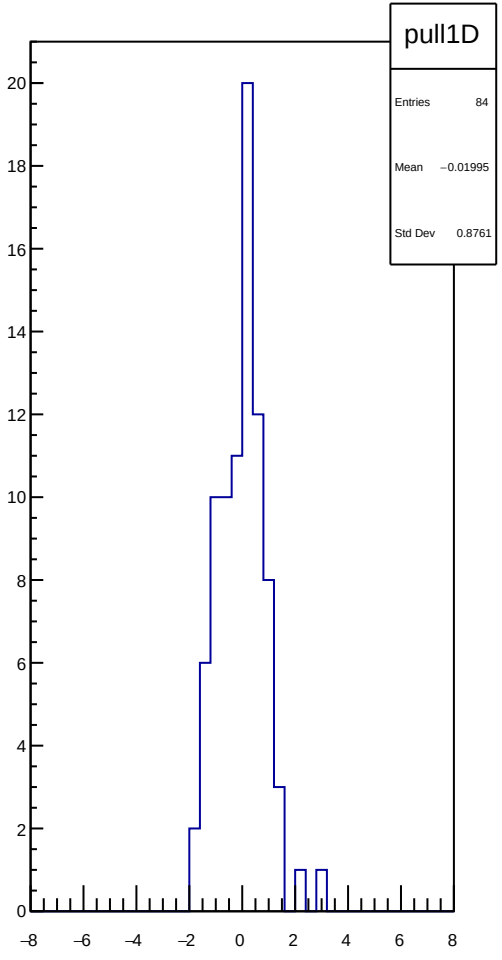

asym_usr_correction_rms vs run
χ² / ndf 3745 / 83
p0 1136 ± 0.8976
1250
1200
1150
1100
1050

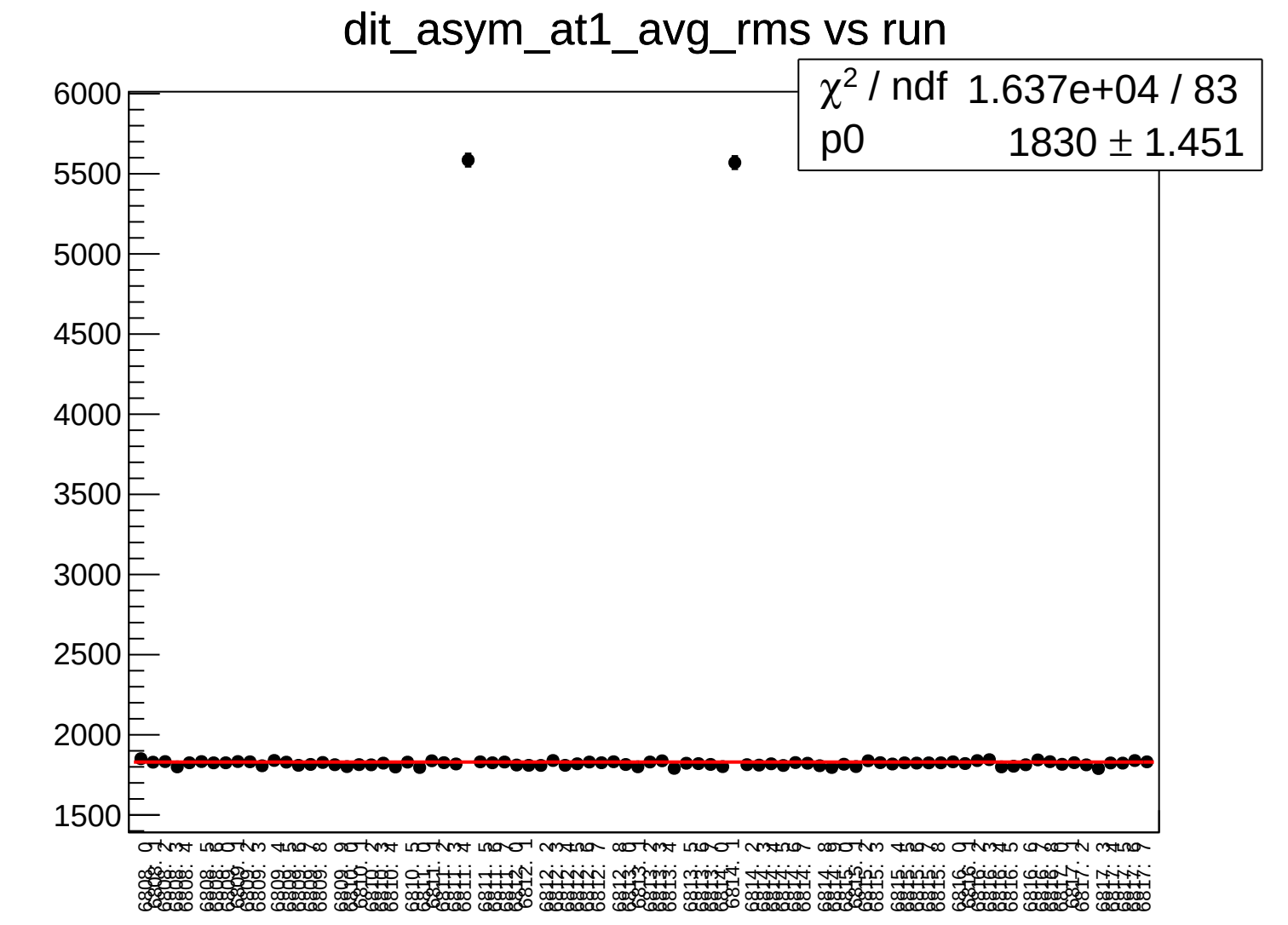

asym_usr_mean vs run
χ² / ndf 99.41 / 83
p0 2364 ± 1829
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean −334.1
Std Dev 379.3
2
1
0
−1
−2

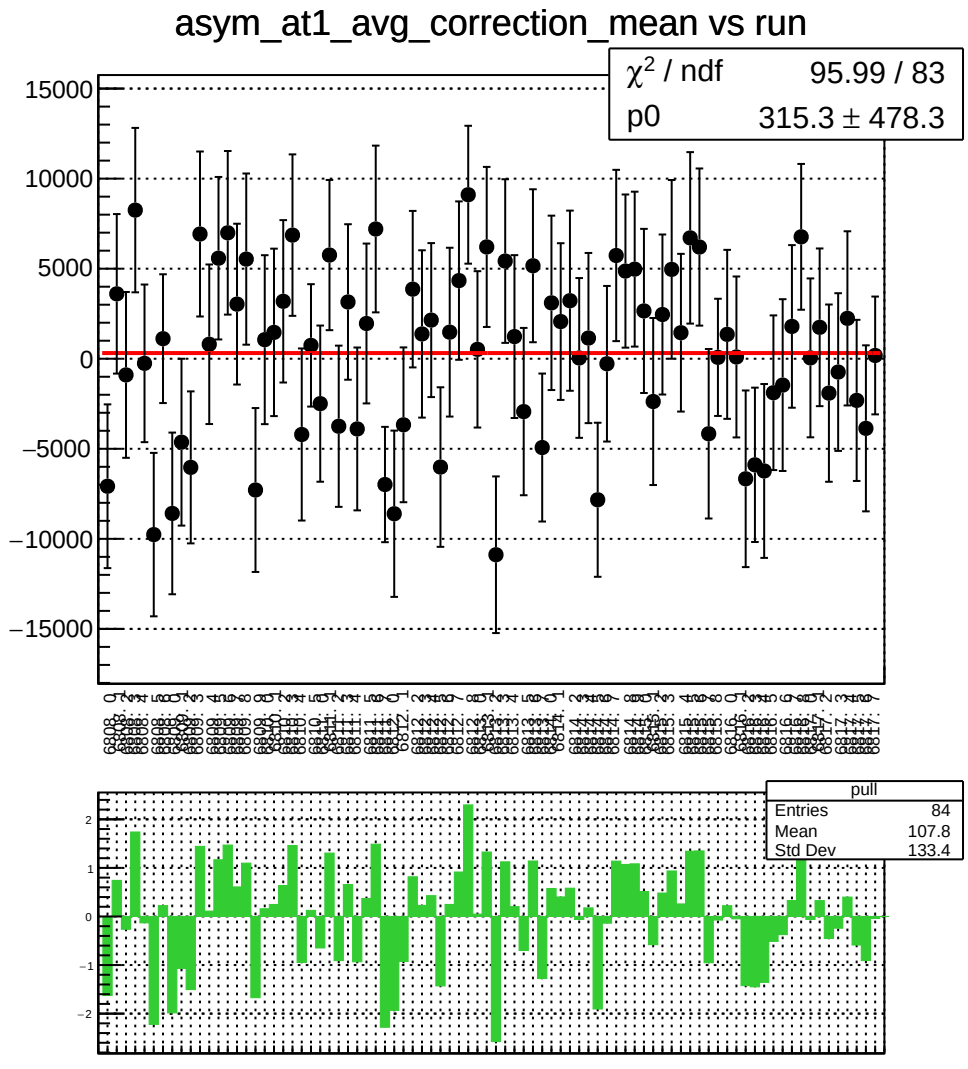

pull1D
Entries 84
Mean −0.01495
Std Dev 1.088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

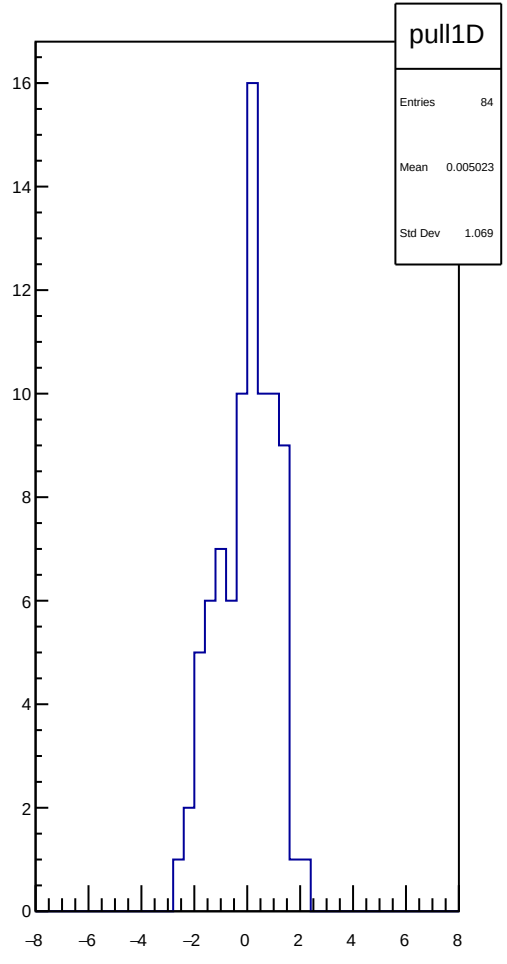

asym_usr_rms vs run
χ² / ndf 1242 / 83
p0 1639 ± 1.294
1750
1700
1650
1600
1550

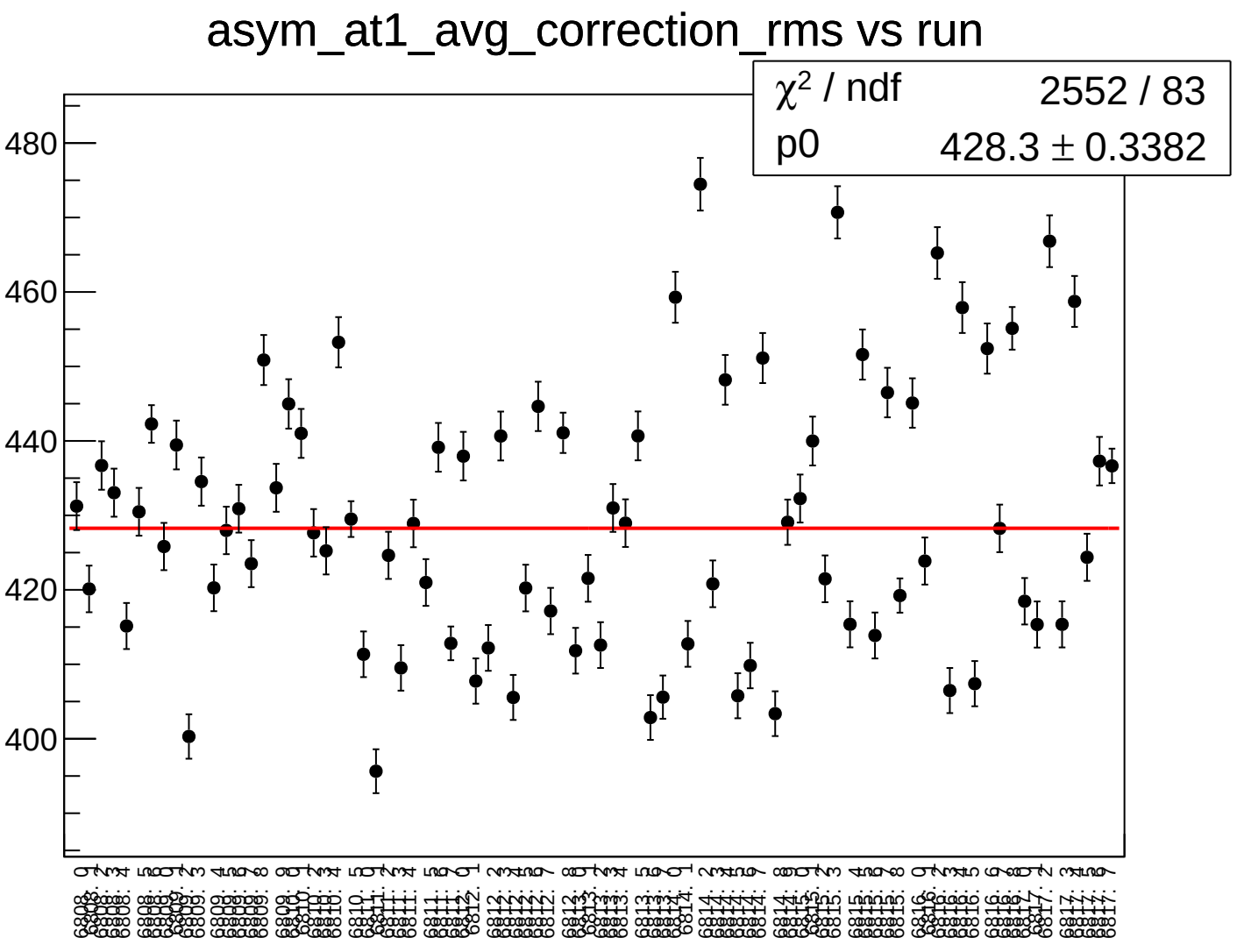

dit_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 64.51 / 83
p0 814.4 ± 2053
pull
Entries 84
Mean 85.61
Std Dev 47.67

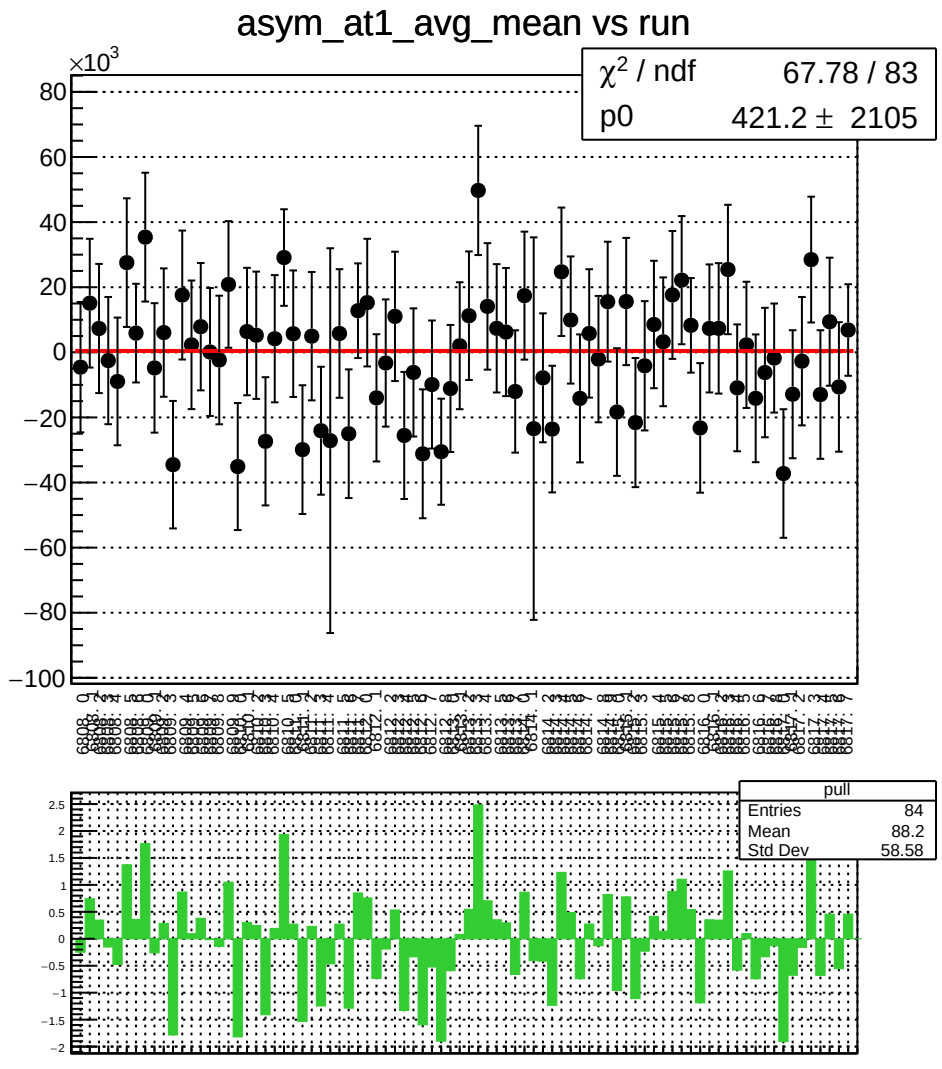

pull1D
Entries 84
Mean −0.01995
Std Dev 0.8761

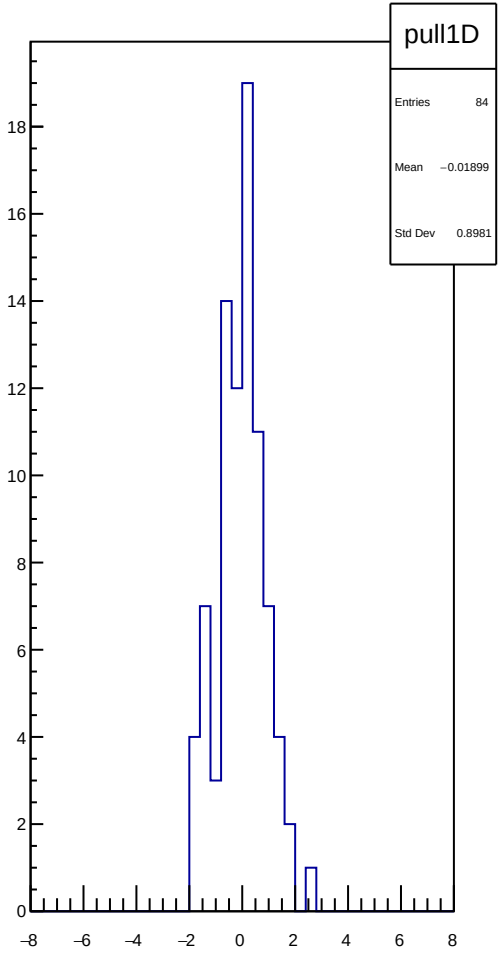

dit_asym_at1_avg_rms vs run
χ² / ndf 1.637e+04 / 83
p0 1830 ± 1.451
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

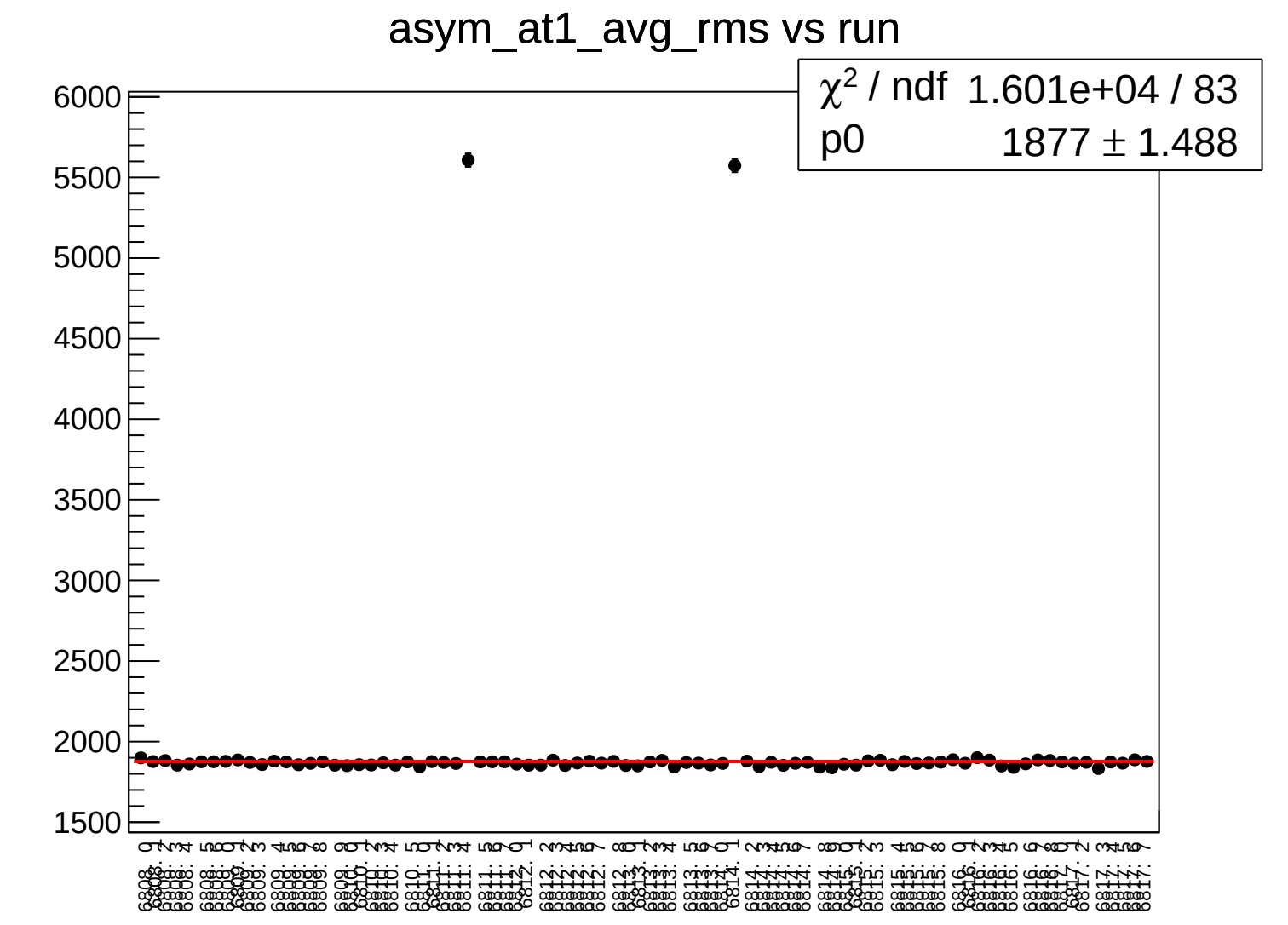

asym_at1_avg_correction_mean vs run
χ² / ndf 95.99 / 83
p0 315.3 ± 478.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 107.8
Std Dev 133.4
2
1
0
−1
−2

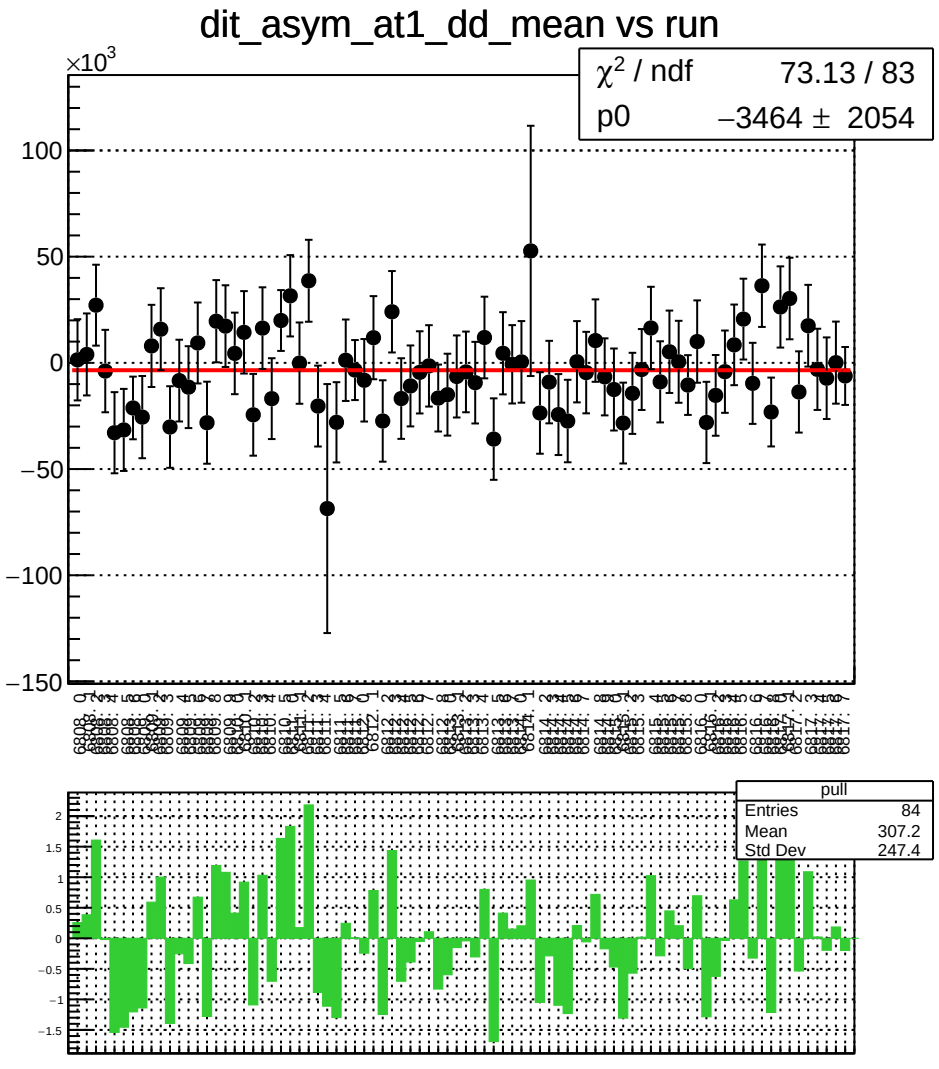

pull1D
Entries 84
Mean 0.005023
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

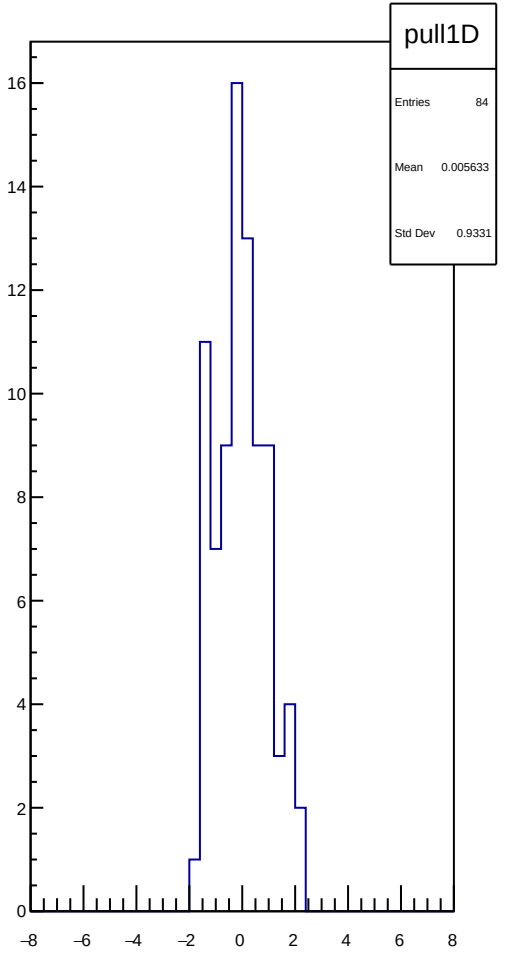

asym_at1_avg_correction_rms vs run
χ² / ndf 2552 / 83
p0 428.3 ± 0.3382
480
460
440
420
400

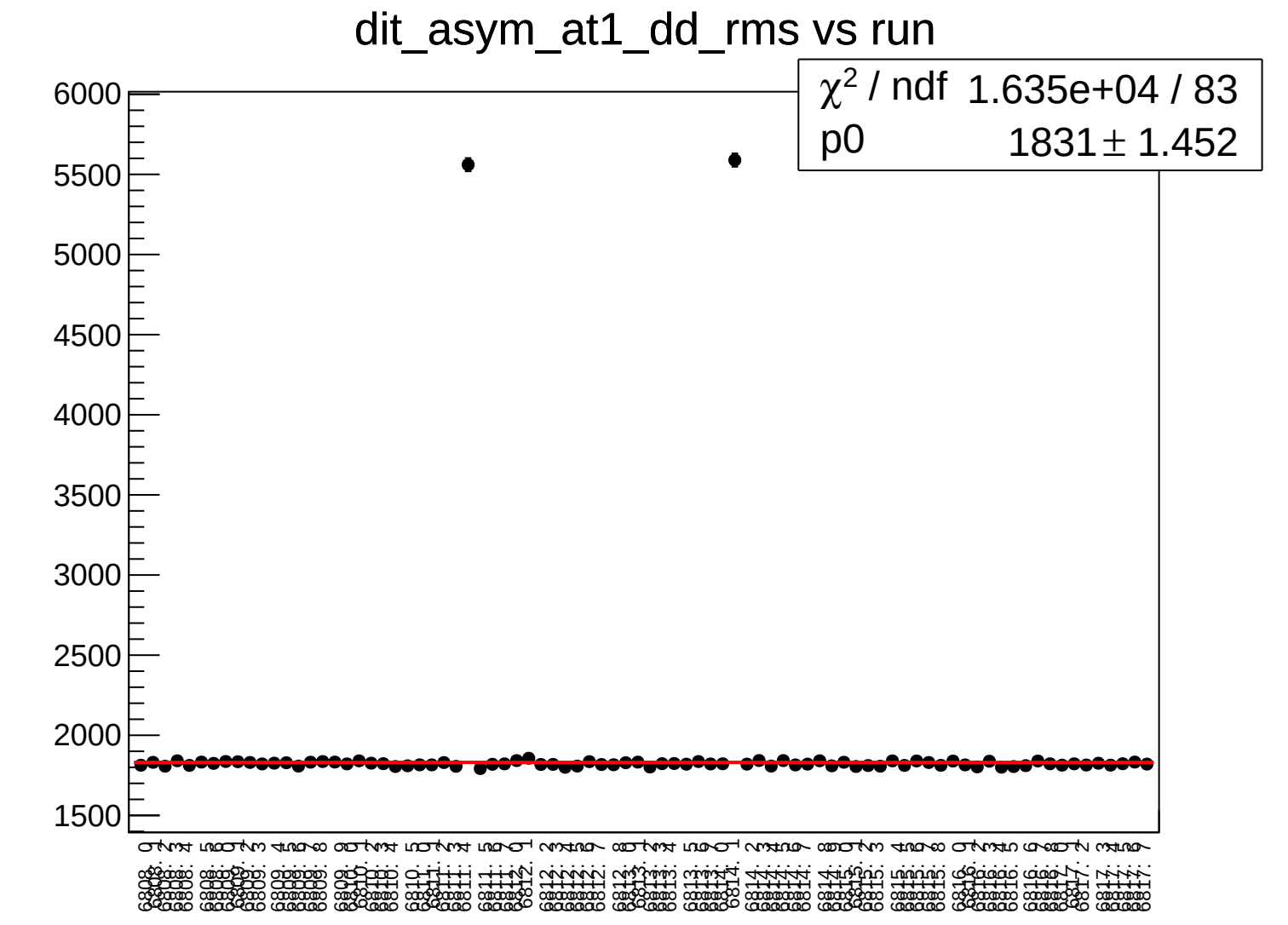

asym_at1_avg_mean vs run
×10^3
χ² / ndf 67.78 / 83
p0 421.2 ± 2105
pull
Entries 84
Mean 88.2
Std Dev 58.58

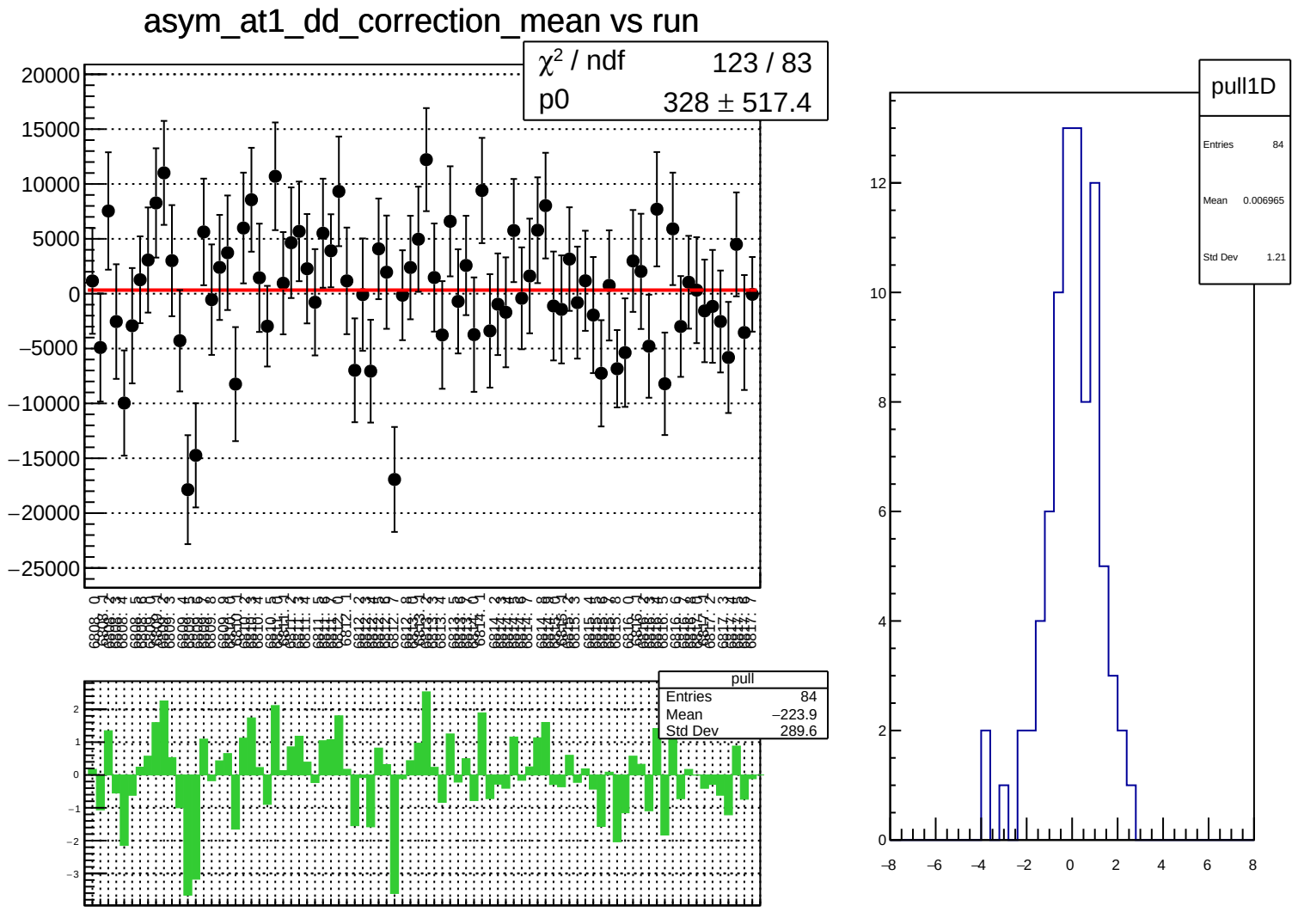

pull1D
Entries 84
Mean −0.01899
Std Dev 0.8981

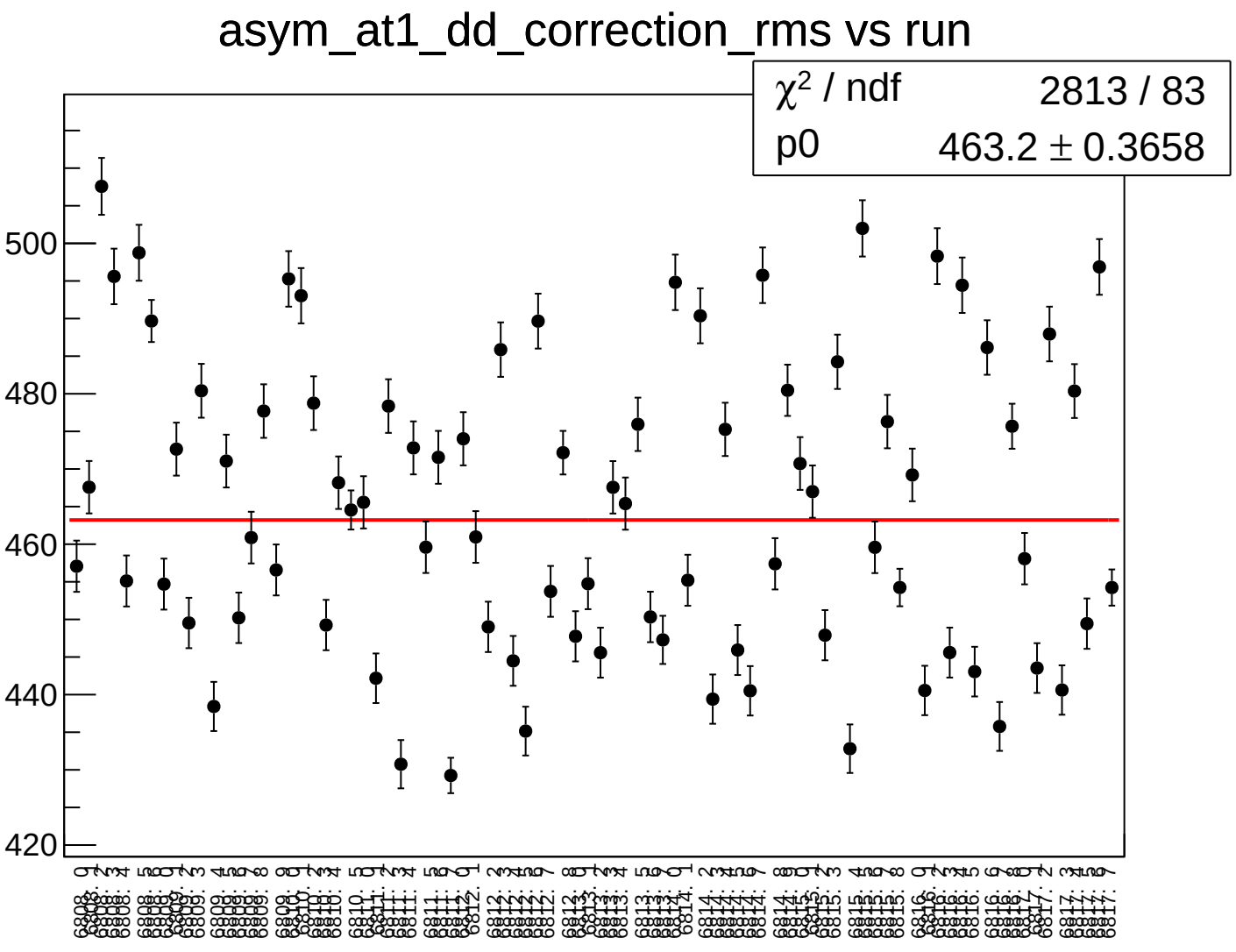

asym_at1_avg_rms vs run
χ² / ndf 1.601e+04 / 83
p0 1877 ± 1.488
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

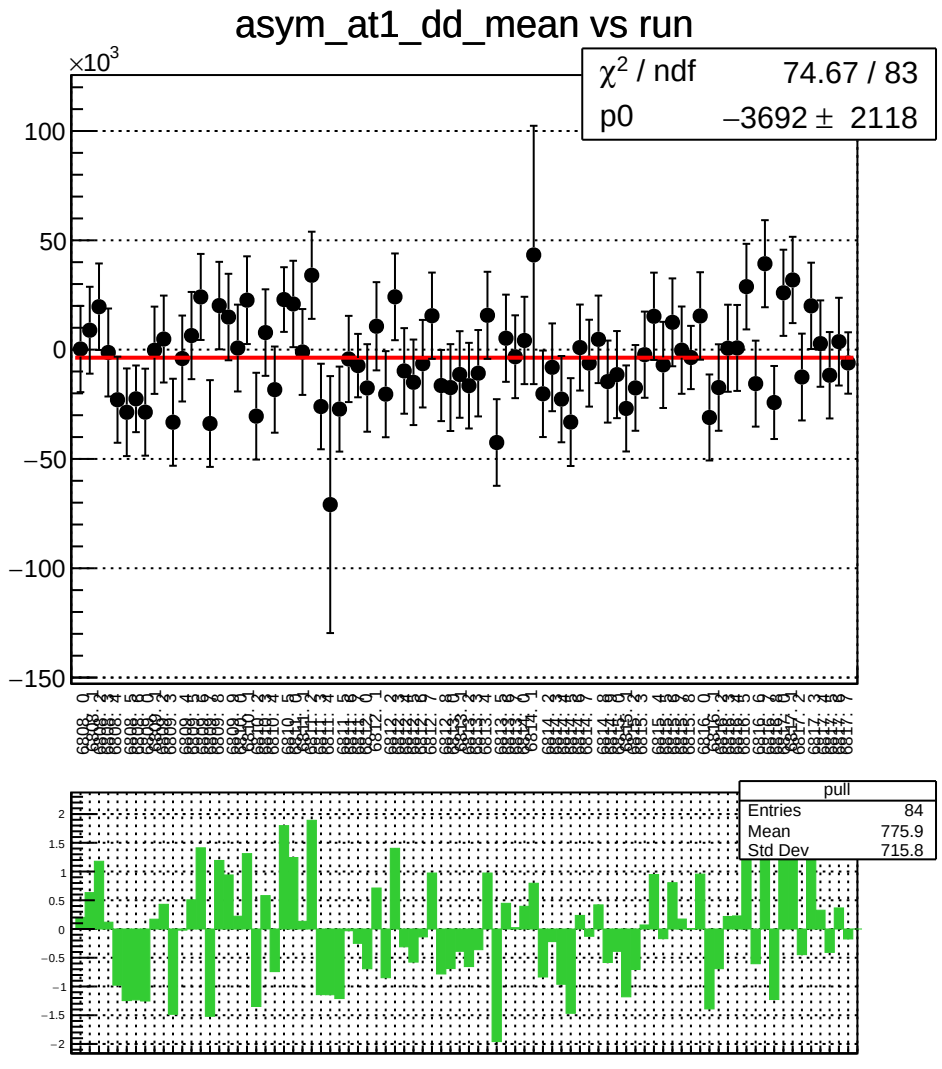

dit_asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 73.13 / 83
p0 −3464 ± 2054
100
50
0
−50
−100
−150
pull
Entries 84
Mean 307.2
Std Dev 247.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

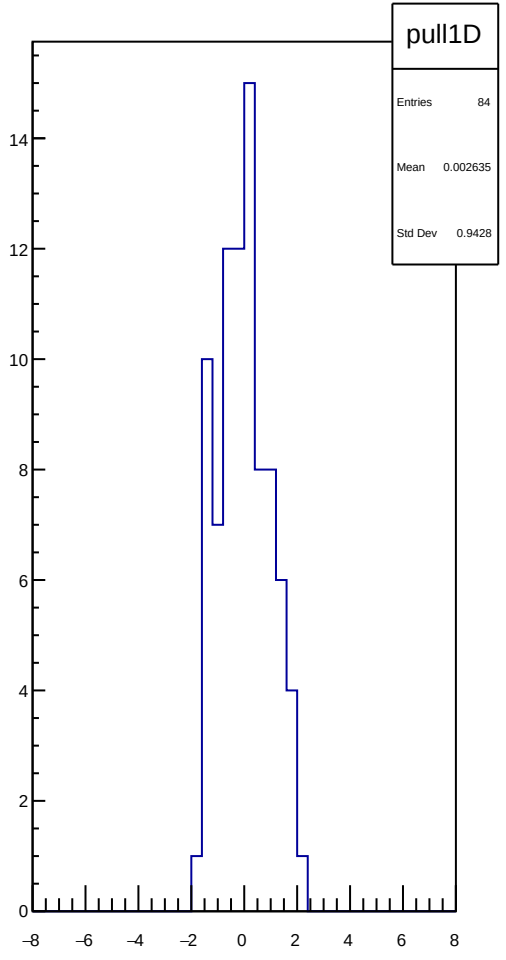

pull1D
Entries 84
Mean 0.005633
Std Dev 0.9331
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

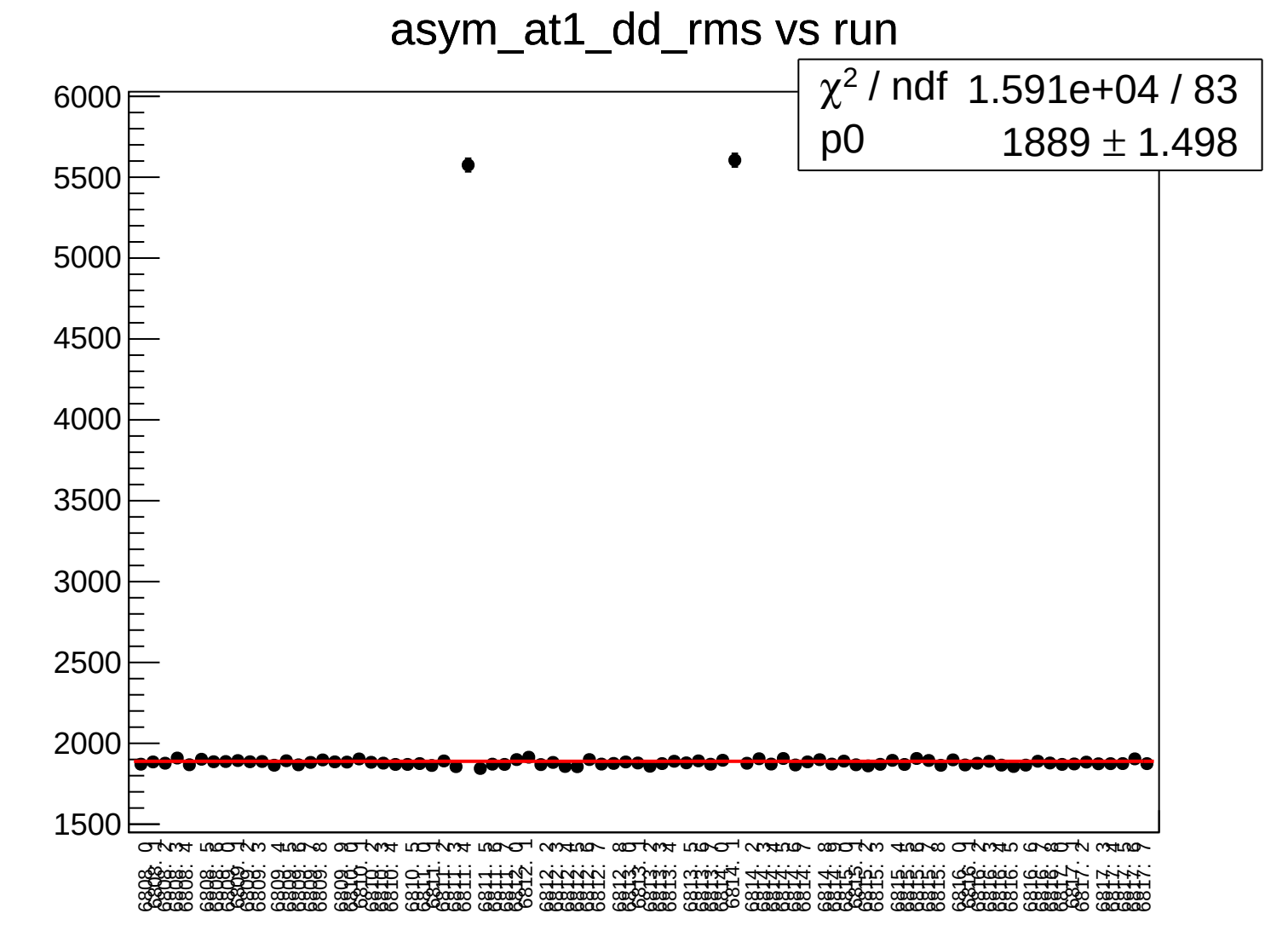

dit_asym_at1_dd_rms vs run
χ^2 / ndf 1.635e+04 / 83
p0 1831 ± 1.452
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

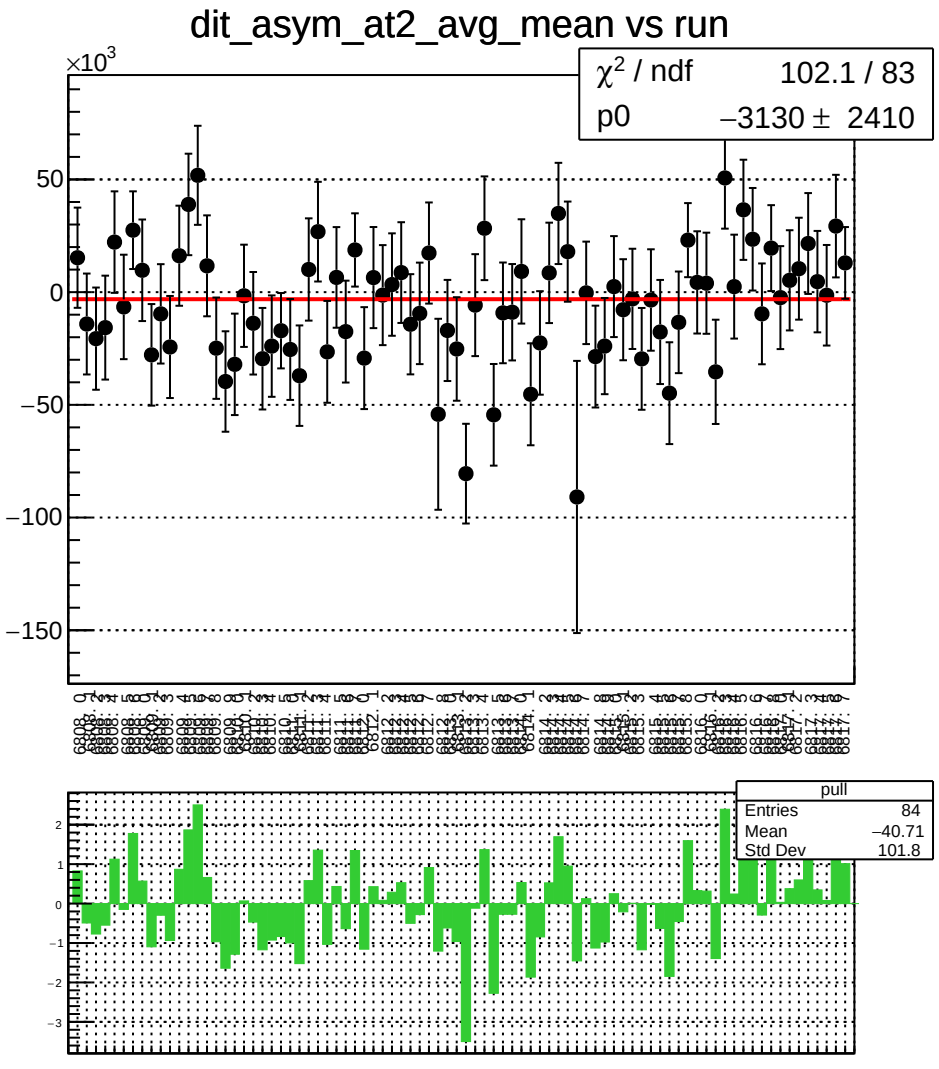

asym_at1_dd_correction_mean vs run
χ² / ndf 123 / 83
p0 328 ± 517.4
pull
Entries 84
Mean −223.9
Std Dev 289.6
pull1D
Entries 84
Mean 0.006965
Std Dev 1.21

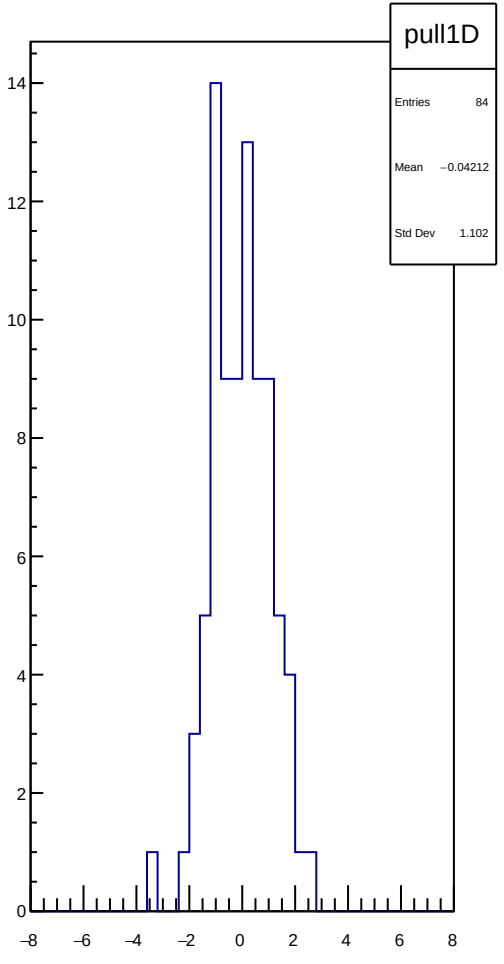

asym_at1_dd_correction_rms vs run
χ² / ndf 2813 / 83
p0 463.2 ± 0.3658
500
480
460
440
420

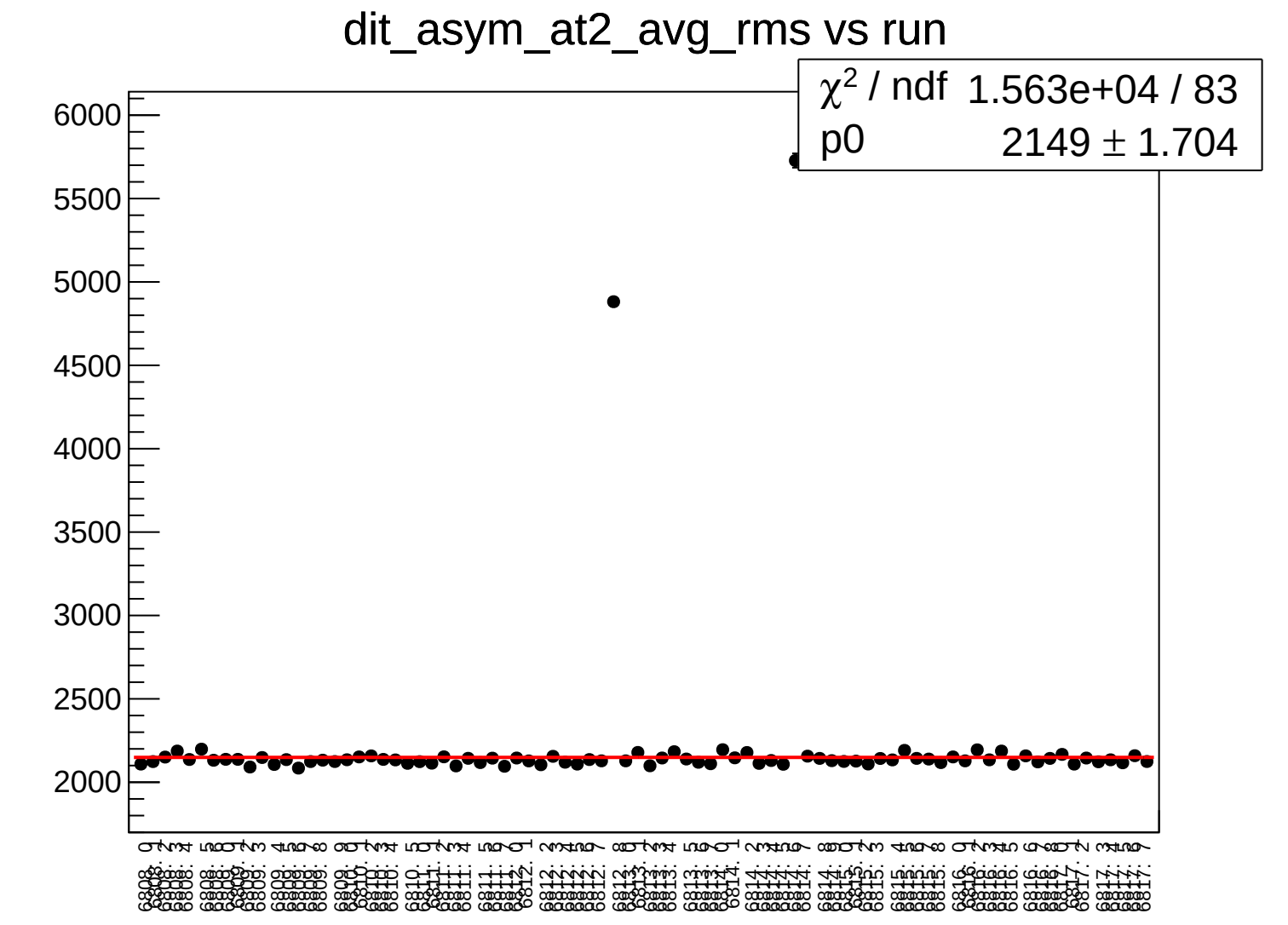

asym_at1_dd_mean vs run
×10^3
χ² / ndf 74.67 / 83
p0 −3692 ± 2118
100
50
0
−50
−100
−150
pull
Entries 84
Mean 775.9
Std Dev 715.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

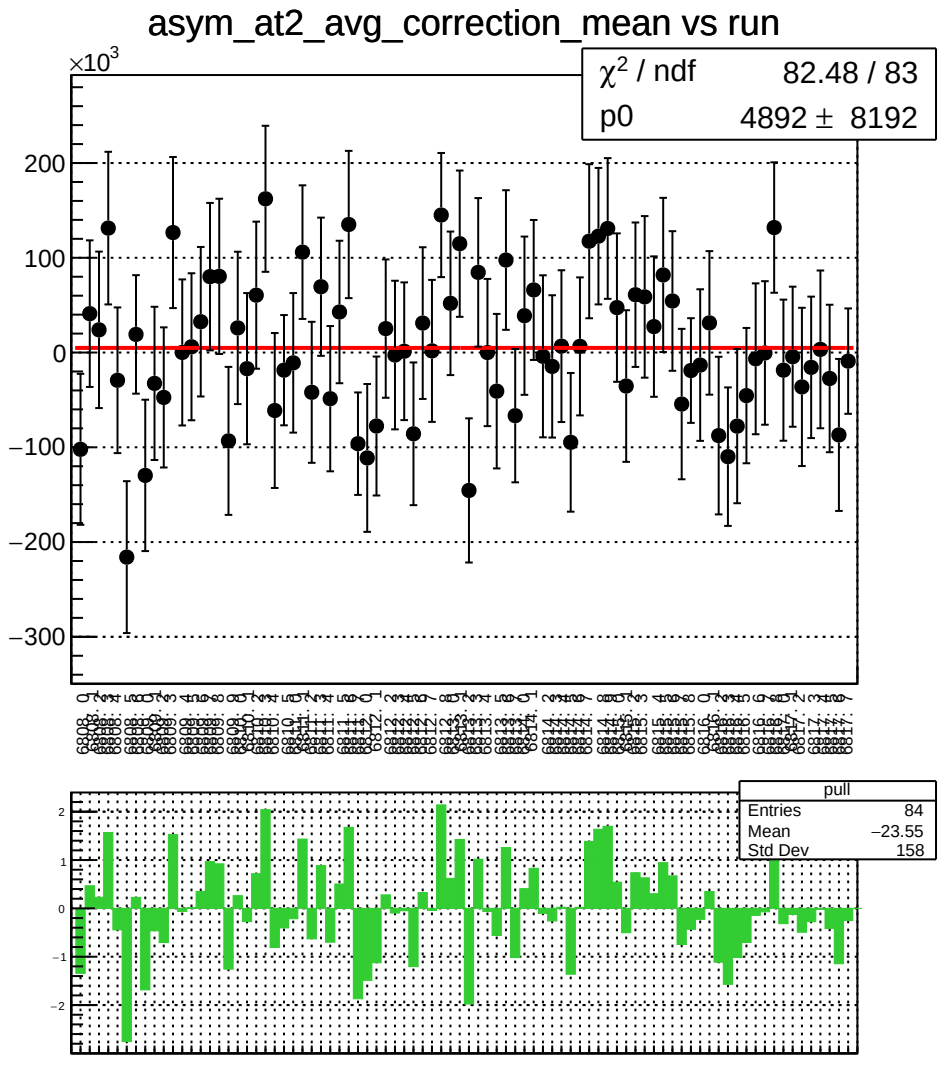

pull1D
Entries 84
Mean 0.002635
Std Dev 0.9428
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

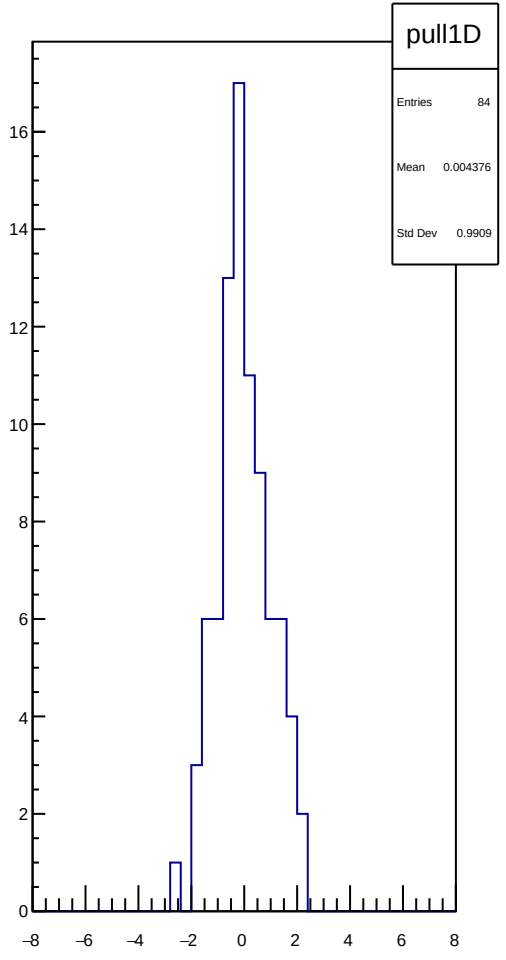

asym_at1_dd_rms vs run
χ² / ndf 1.591e+04 / 83
p0 1889 ± 1.498
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

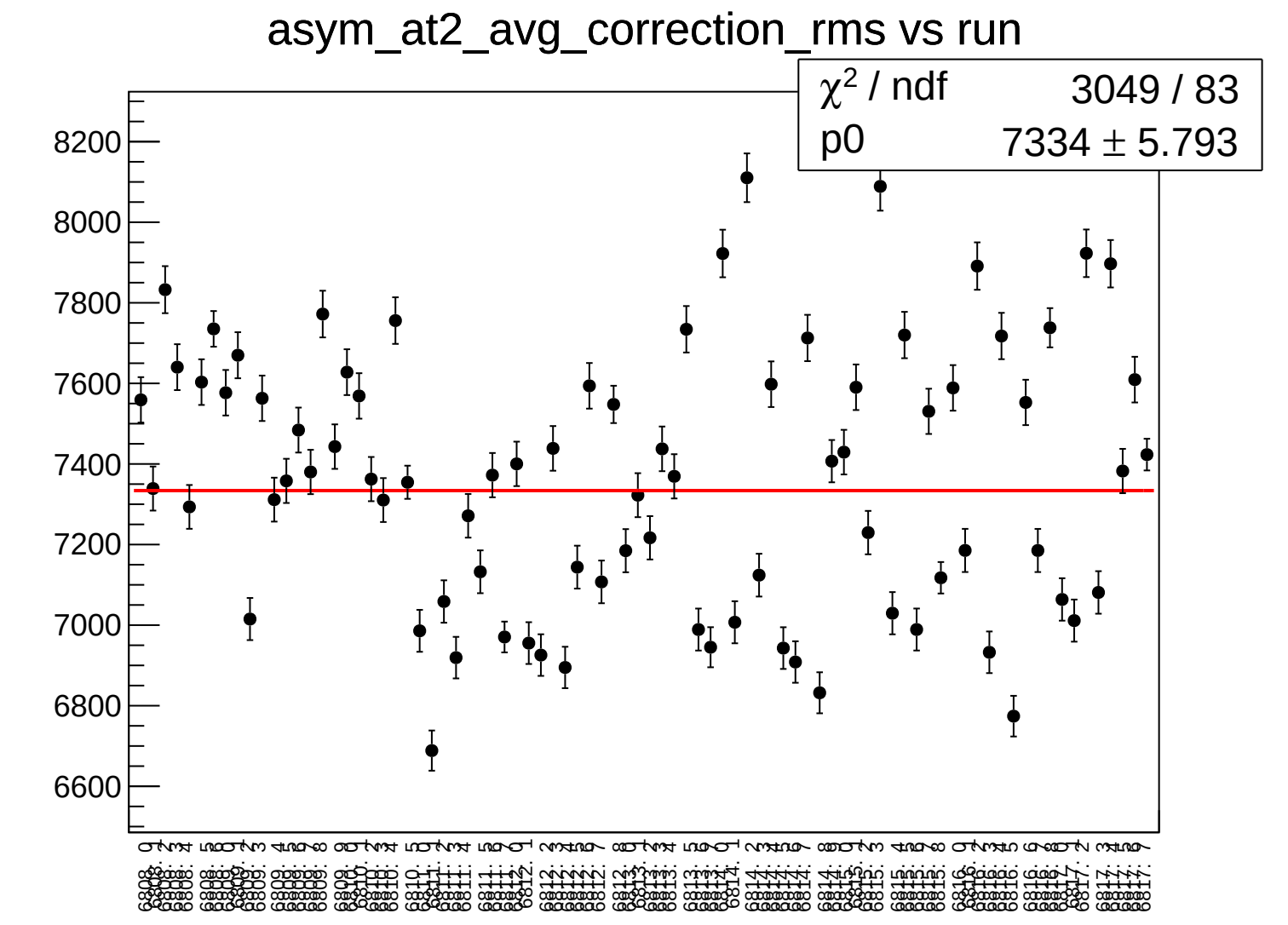

dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 102.1 / 83
p0 −3130 ± 2410
50
0
−50
−100
−150
pull
Entries 84
Mean −40.71
Std Dev 101.8
2
1
0
−1
−2
−3

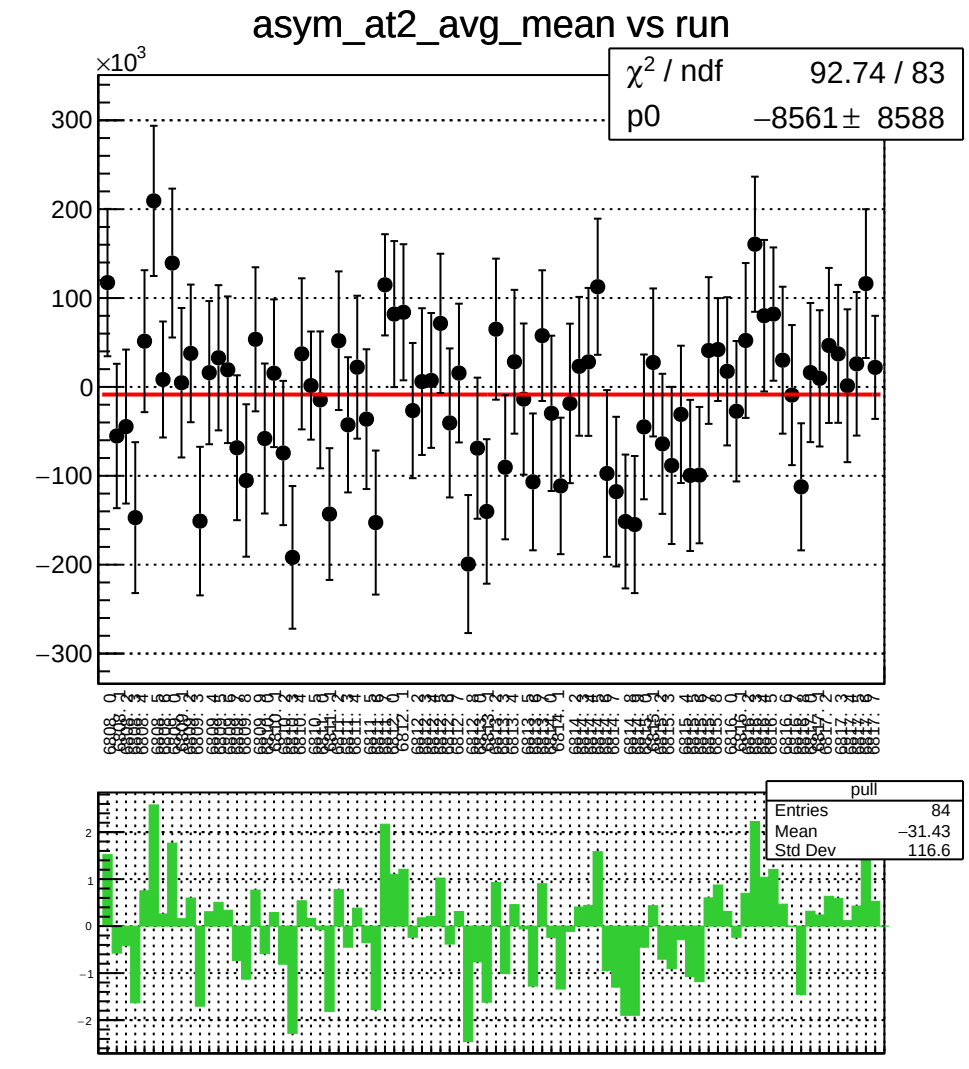

pull1D
Entries 84
Mean −0.04212
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

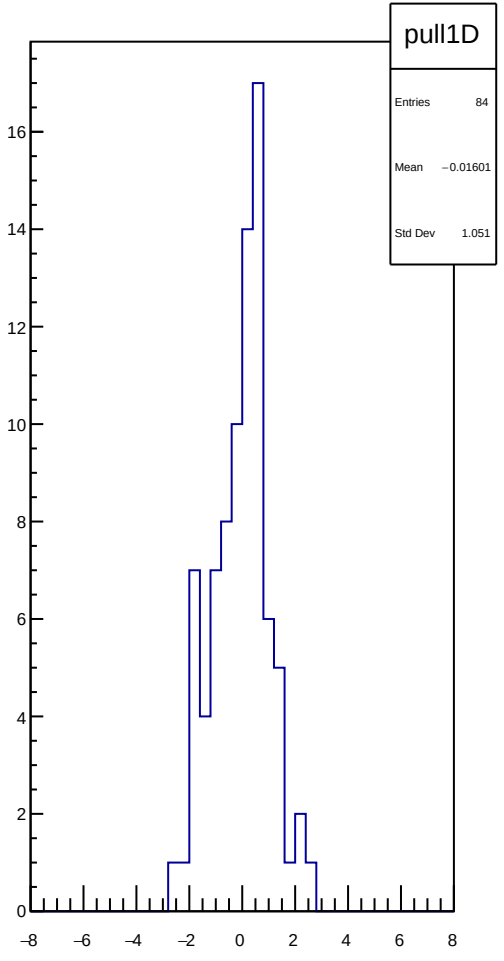

dit_asym_at2_avg_rms vs run
χ² / ndf 1.563e+04 / 83
p0 2149 ± 1.704
6000
5500
5000
4500
4000
3500
3000
2500
2000

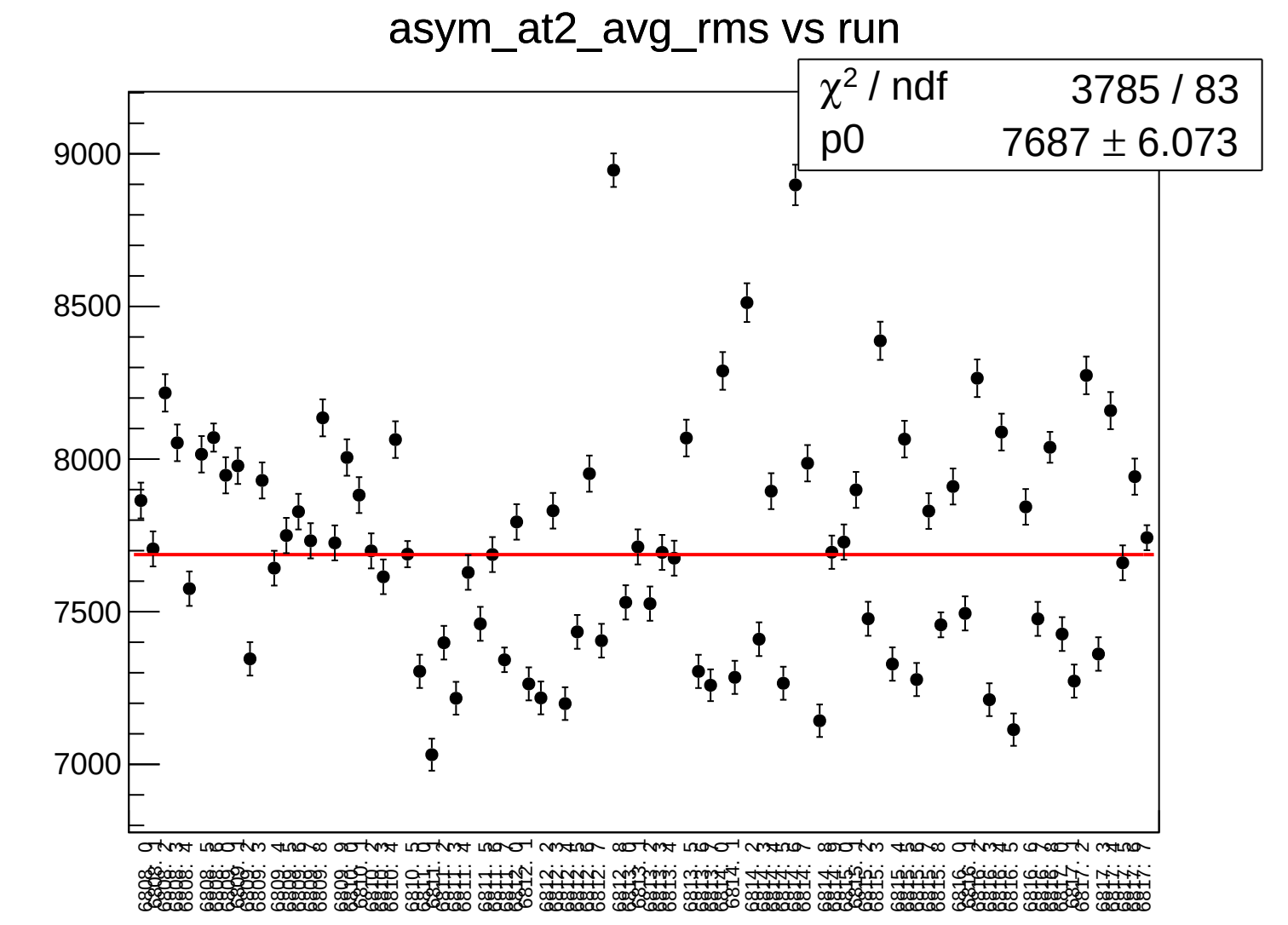

asym_at2_avg_correction_mean vs run
×10^3
χ^2 / ndf 82.48 / 83
p0 4892 ± 8192
200
100
0
−100
−200
−300
pull
Entries 84
Mean −23.55
Std Dev 158
2
1
0
−1
−2

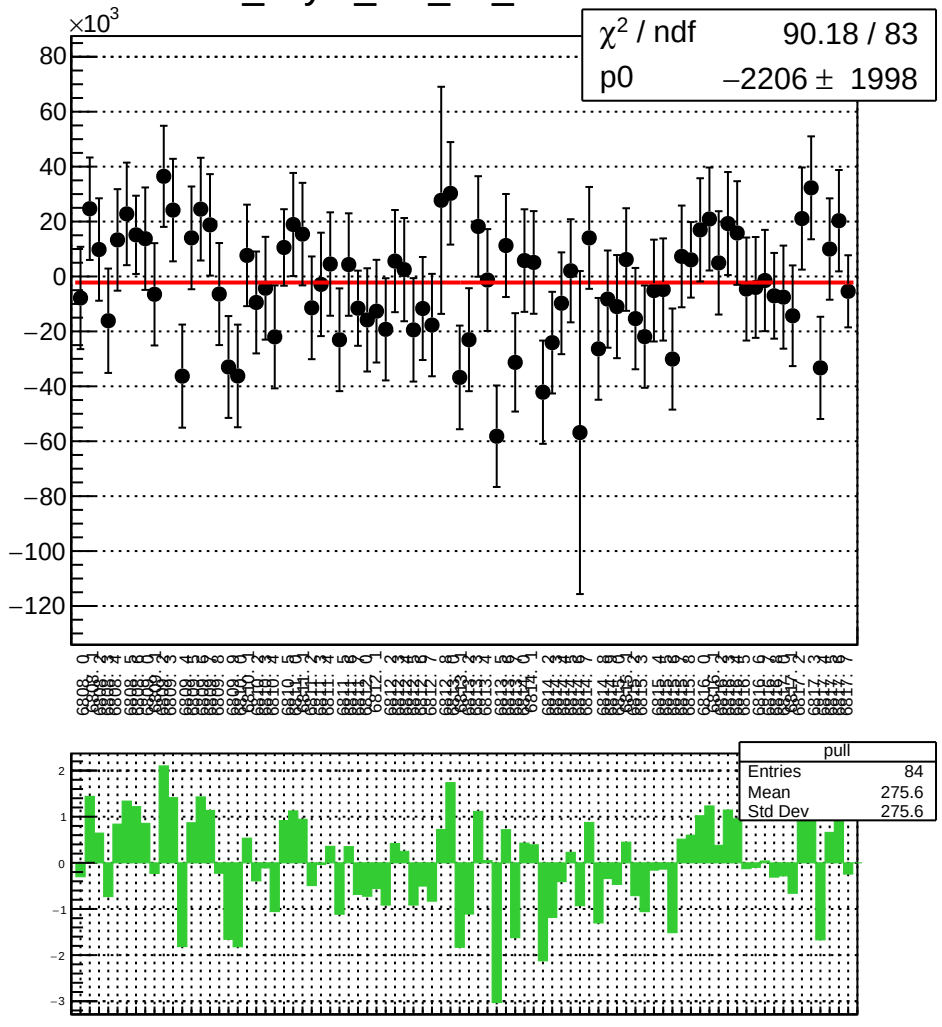

pull1D
Entries 84
Mean 0.004376
Std Dev 0.9909
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

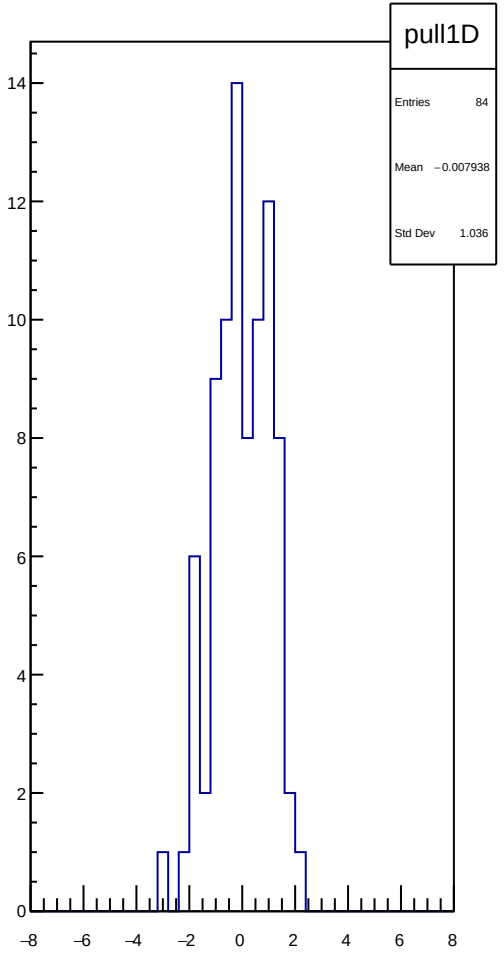

asym_at2_avg_correction_rms vs run
χ² / ndf 3049 / 83
p0 7334 ± 5.793
8200
8000
7800
7600
7400
7200
7000
6800
6600

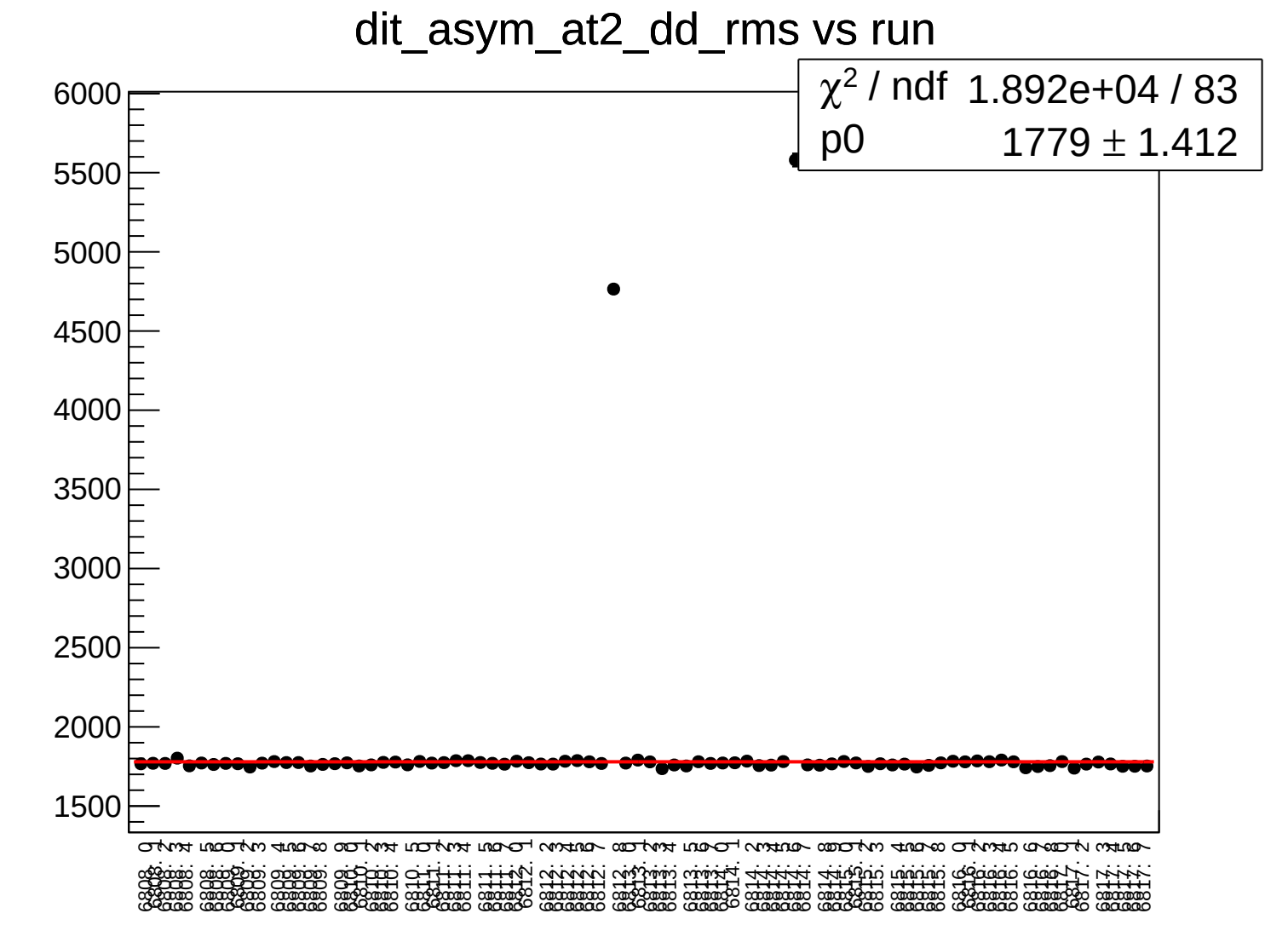

asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 92.74 / 83
p0 −8561 ± 8588
pull
Entries 84
Mean −31.43
Std Dev 116.6

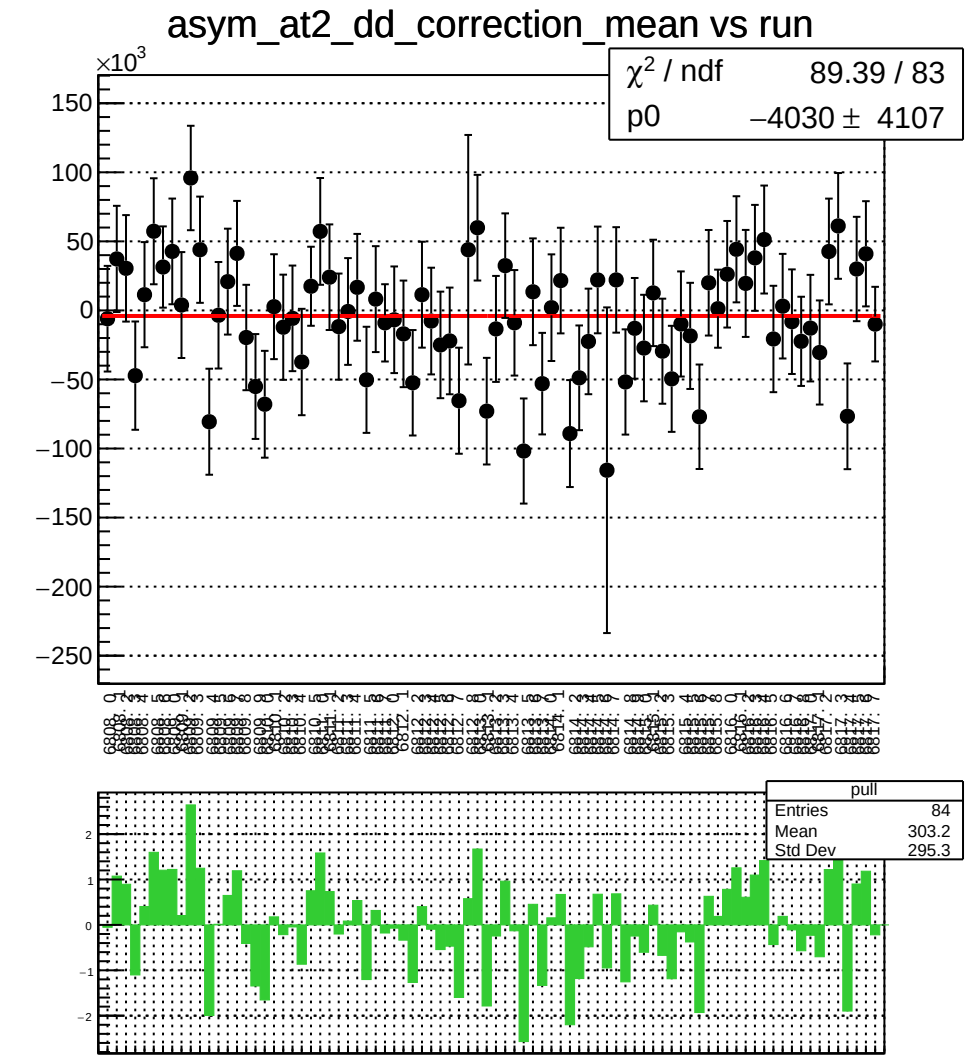

pull1D
Entries 84
Mean −0.01601
Std Dev 1.051

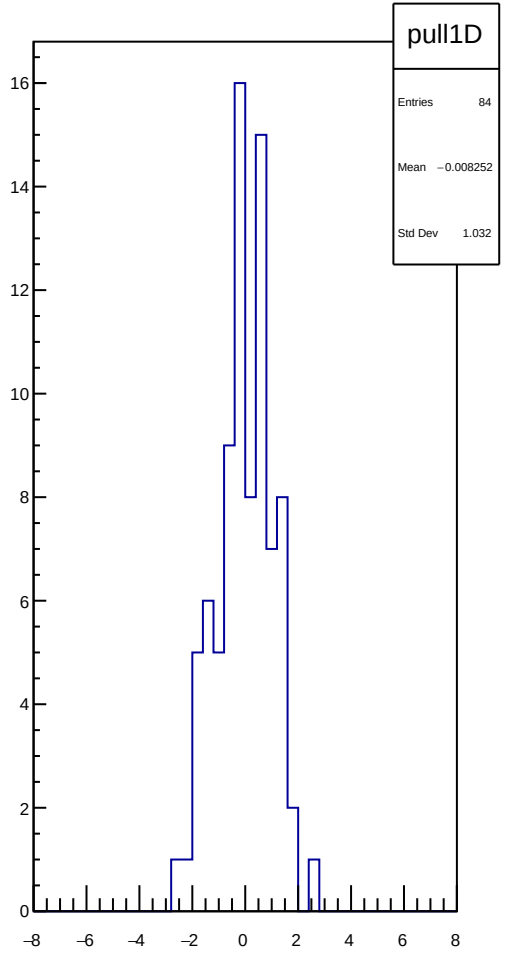

asym_at2_avg_rms vs run
χ^2 / ndf 3785 / 83
p0 7687 ± 6.073
9000
8500
8000
7500
7000

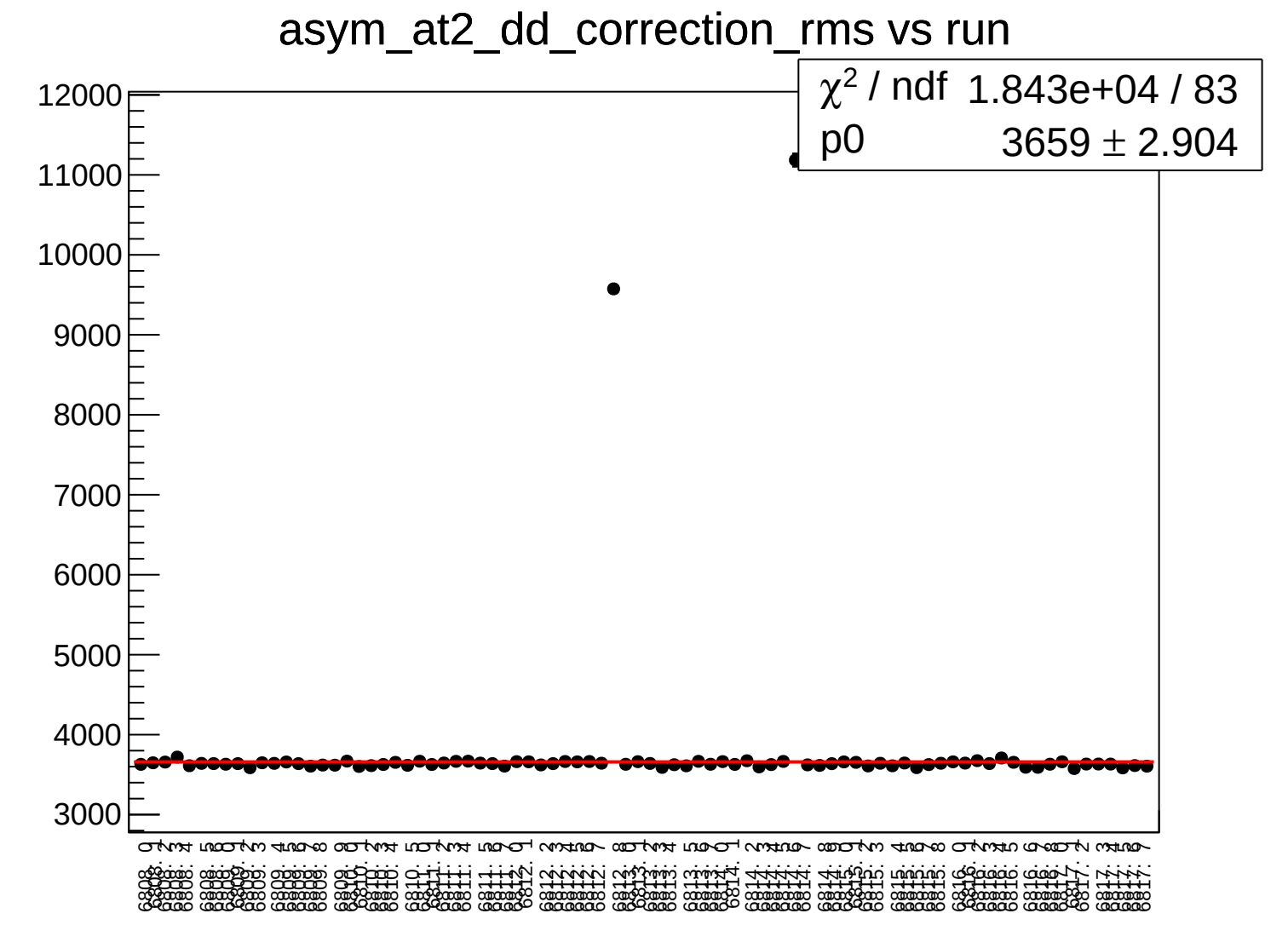

dit_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 90.18 / 83
p0 −2206 ± 1998
pull
Entries 84
Mean 275.6
Std Dev 275.6

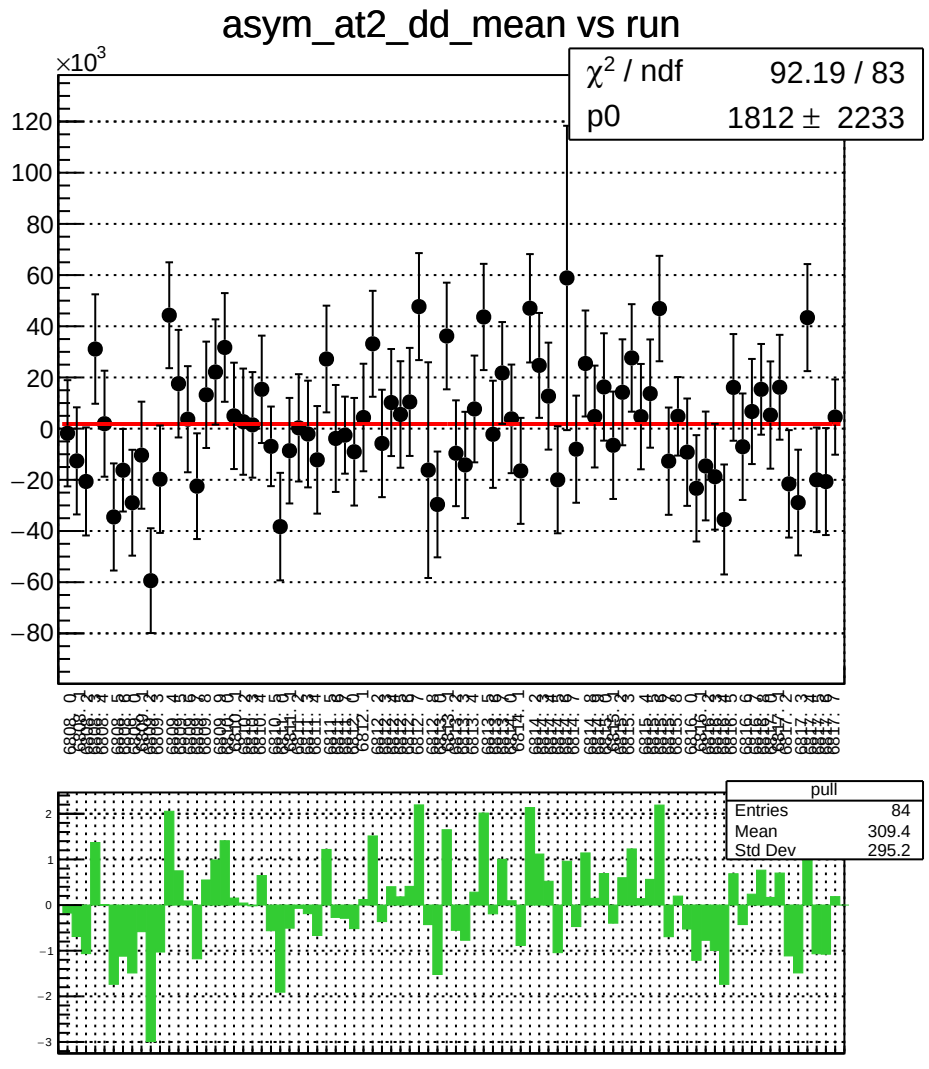

pull1D
Entries 84
Mean −0.007938
Std Dev 1.036

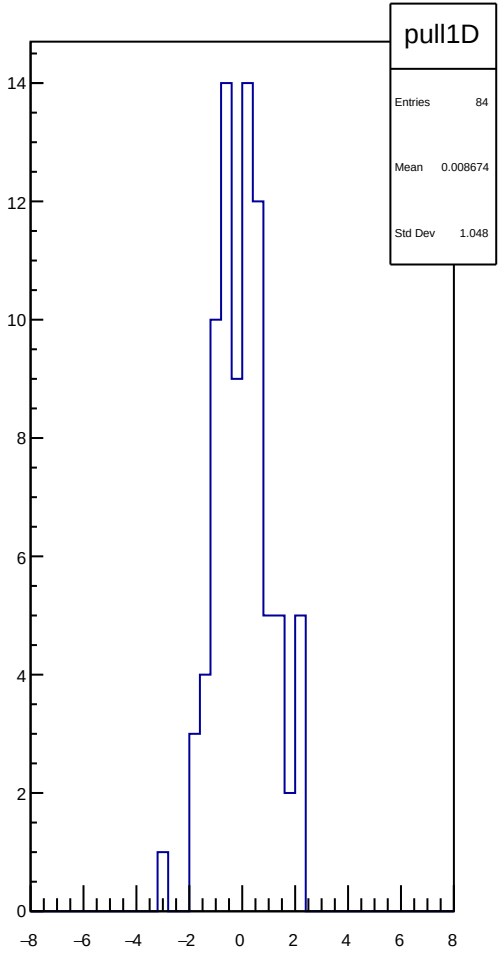

dit_asym_at2_dd_rms vs run
χ² / ndf 1.892e+04 / 83
p0 1779 ± 1.412
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

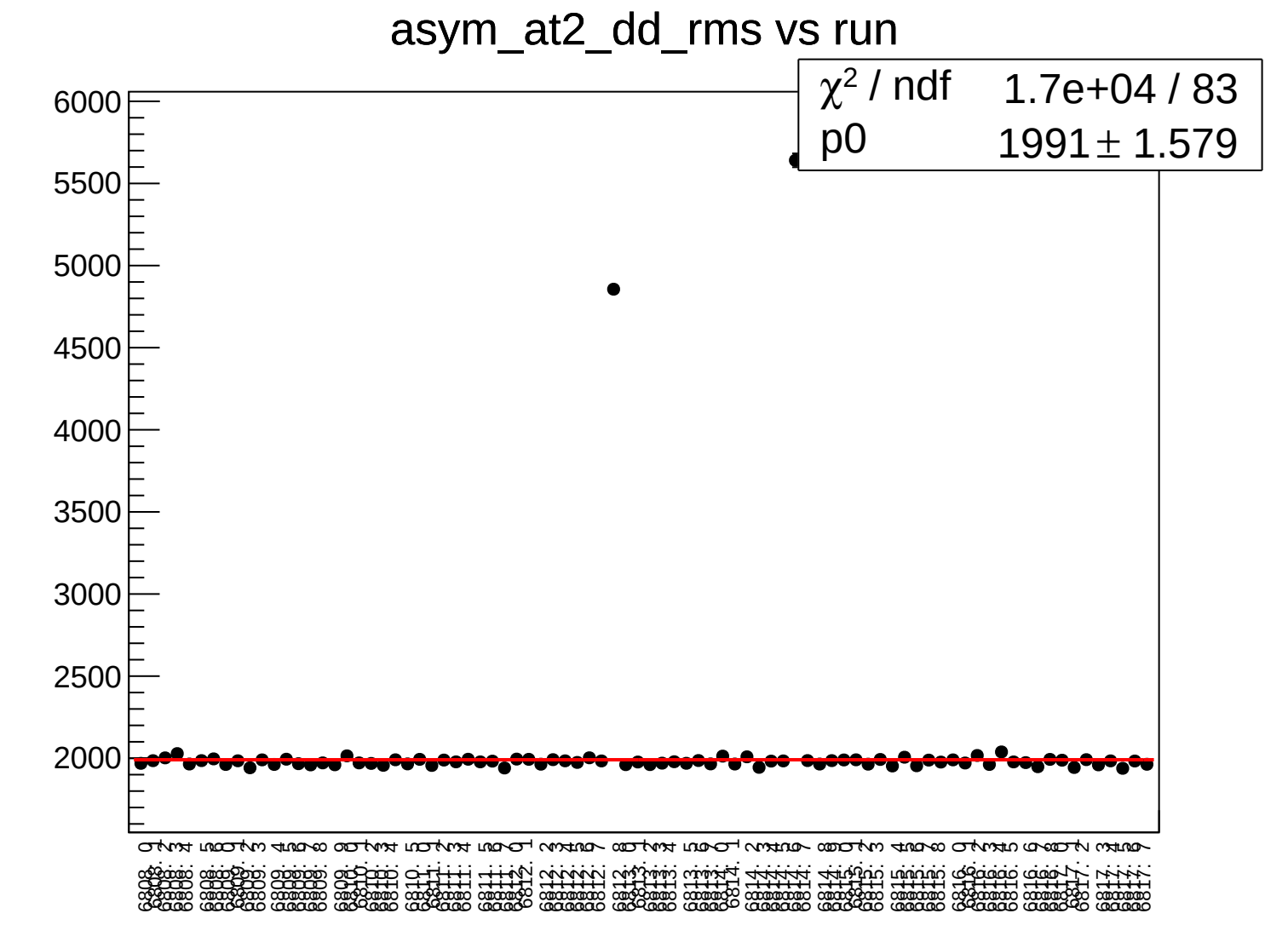

asym_at2_dd_correction_mean vs run
×10^3
χ^2 / ndf 89.39 / 83
p0 −4030 ± 4107
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 84
Mean 303.2
Std Dev 295.3
2
1
0
−1
−2

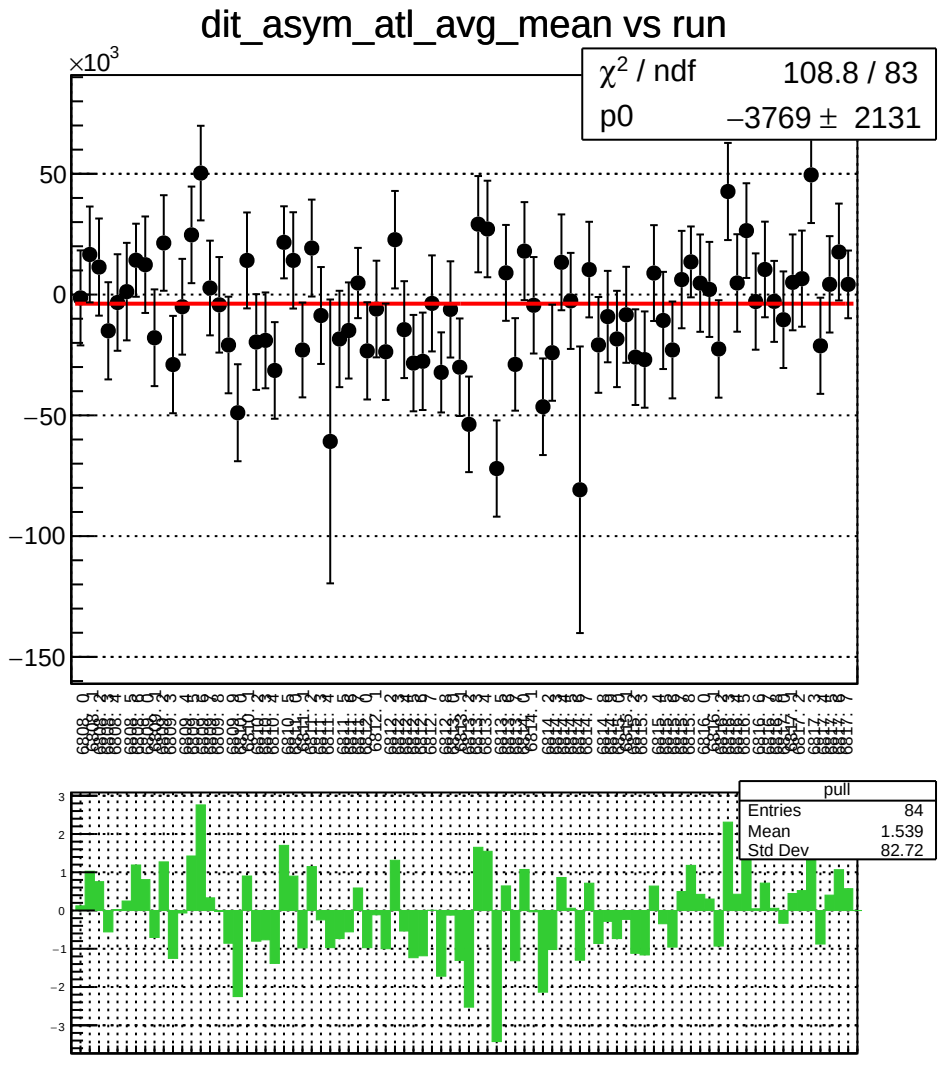

pull1D
Entries 84
Mean −0.008252
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

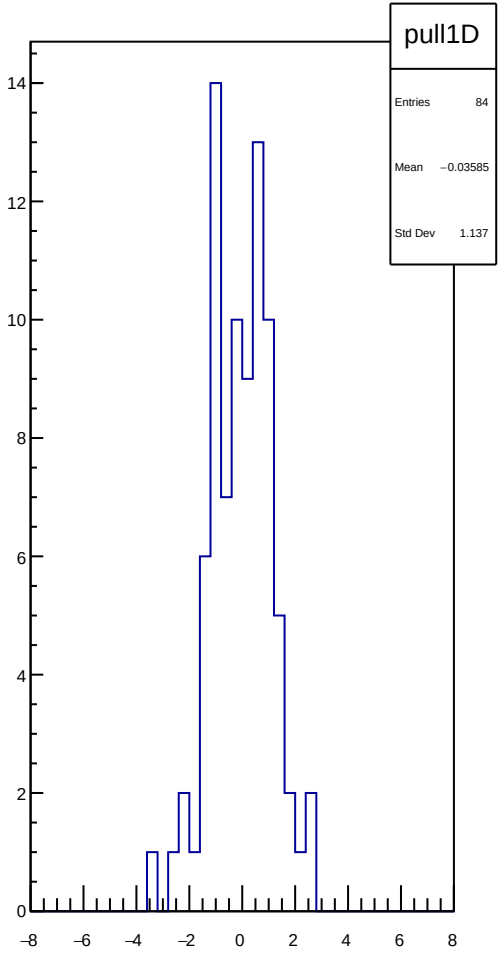

asym_at2_dd_correction_rms vs run
χ² / ndf 1.843e+04 / 83
p0 3659 ± 2.904
12000
11000
10000
9000
8000
7000
6000
5000
4000
3000

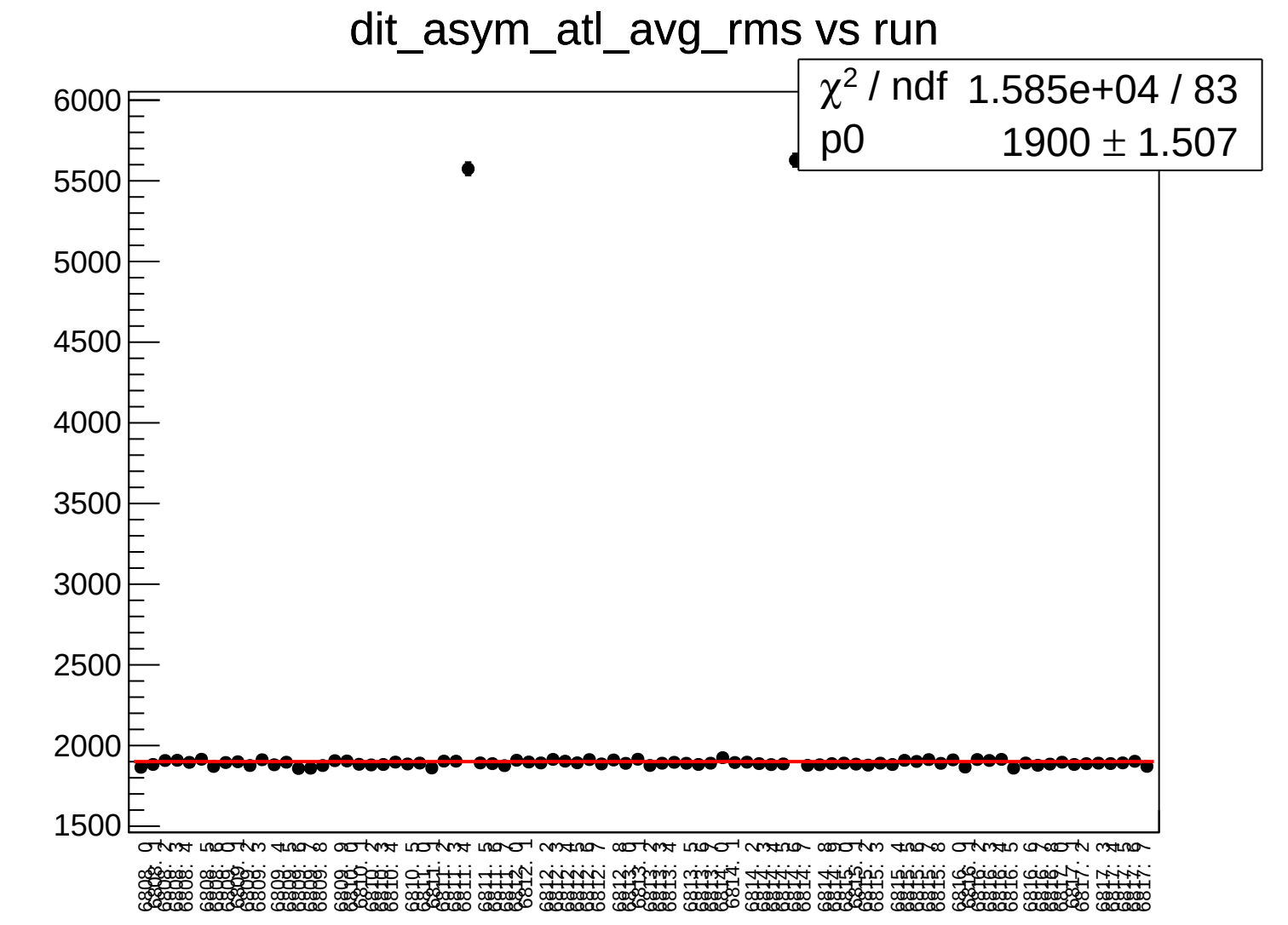

asym_at2_dd_mean vs run
×10^3
χ² / ndf 92.19 / 83
p0 1812 ± 2233
pull
Entries 84
Mean 309.4
Std Dev 295.2

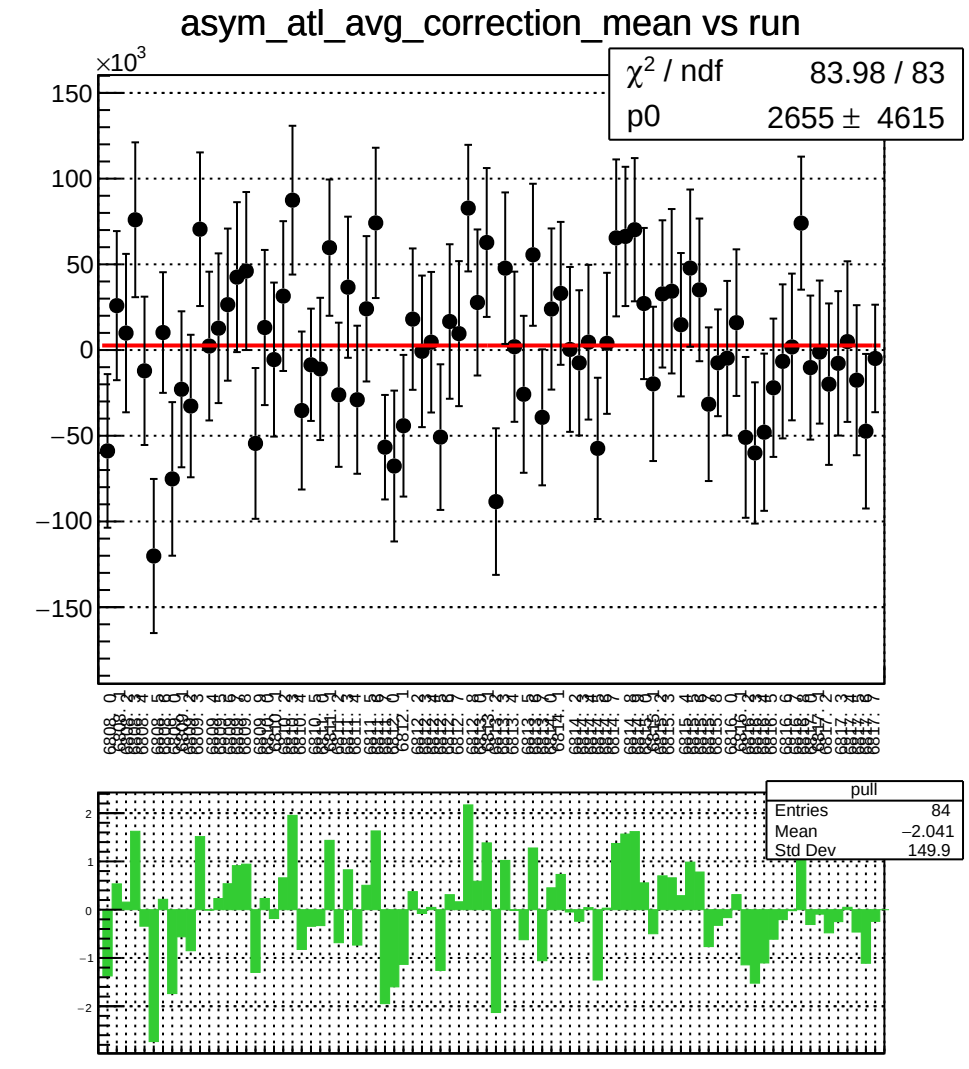

pull1D
Entries 84
Mean 0.008674
Std Dev 1.048

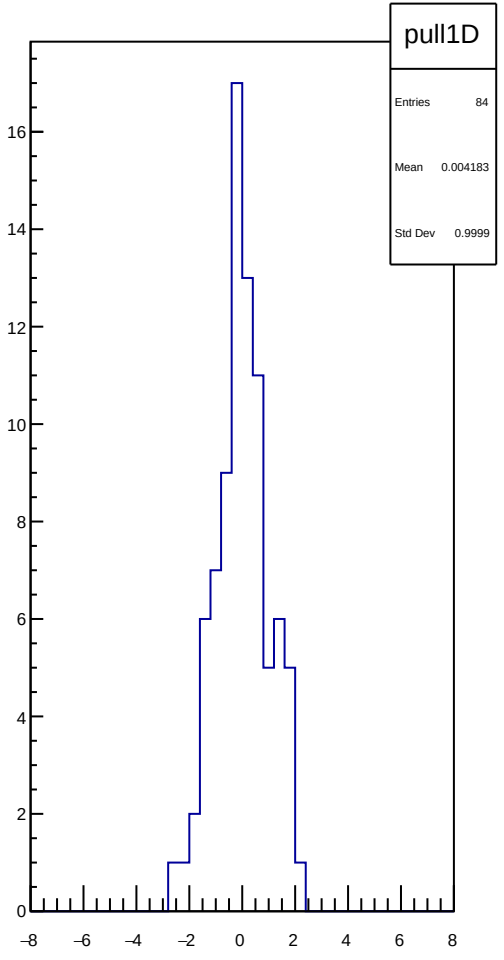

asym_at2_dd_rms vs run
χ² / ndf 1.7e+04 / 83
p0 1991 ± 1.579
6000
5500
5000
4500
4000
3500
3000
2500
2000

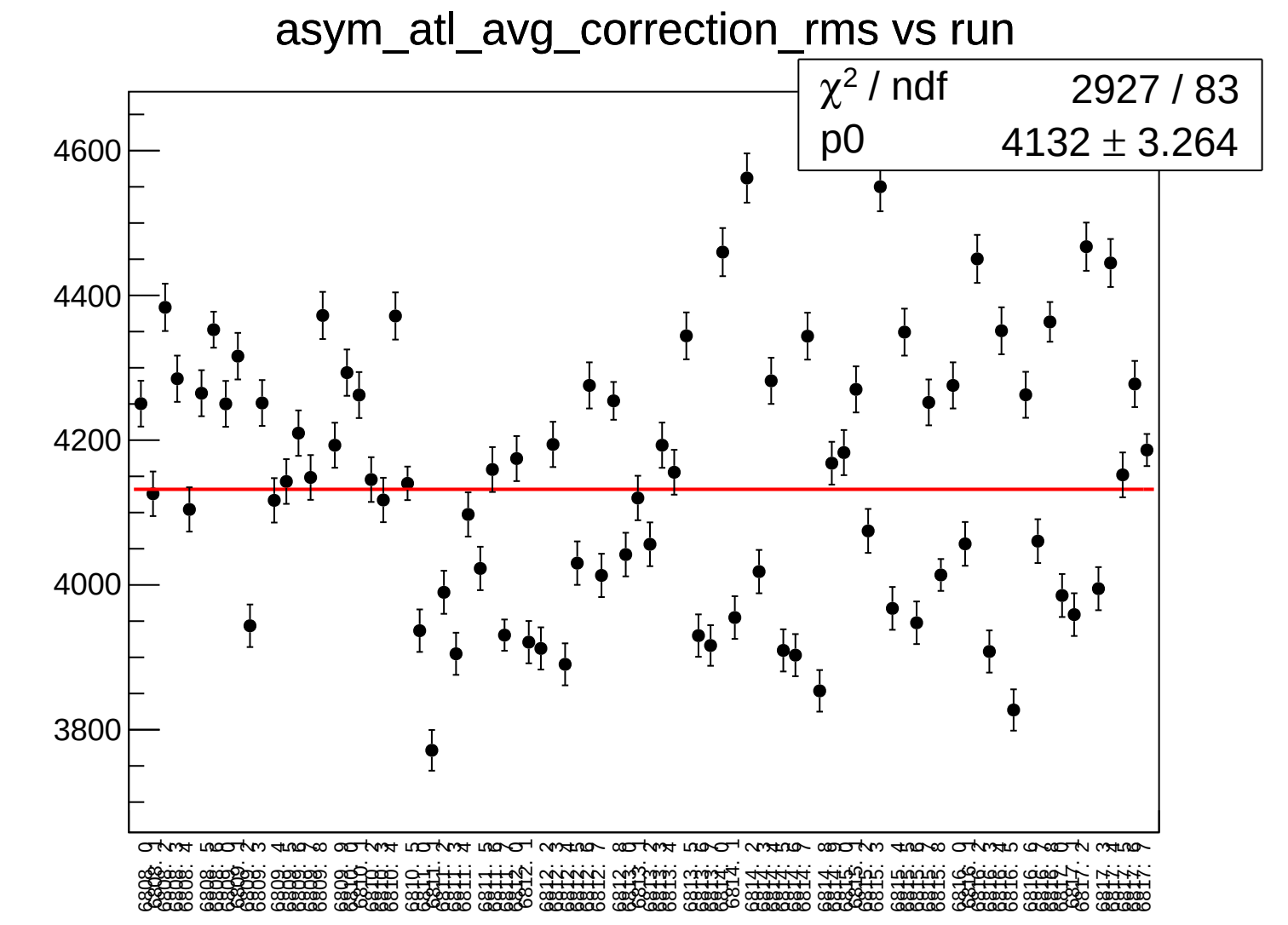

dit_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 108.8 / 83
p0 −3769 ± 2131
50
0
−50
−100
−150
pull
Entries 84
Mean 1.539
Std Dev 82.72
3
2
1
0
−1
−2
−3

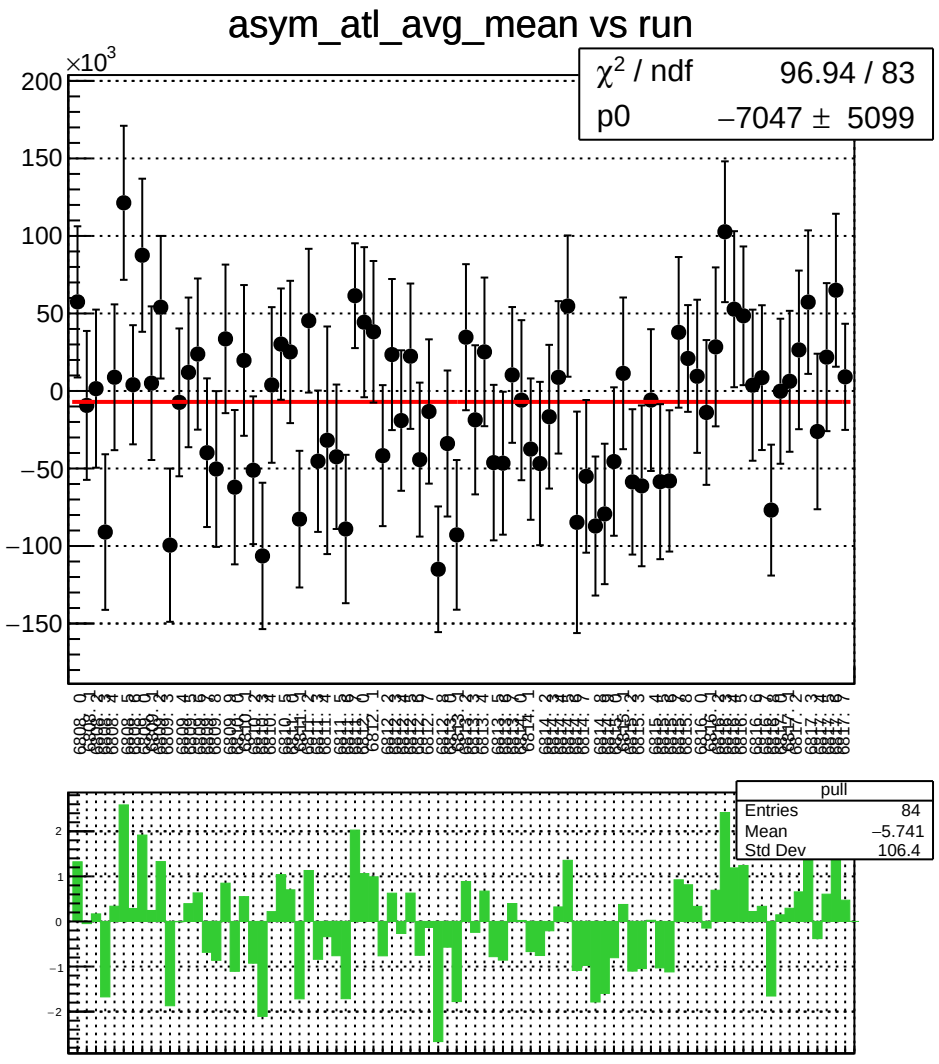

pull1D
Entries 84
Mean −0.03585
Std Dev 1.137
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

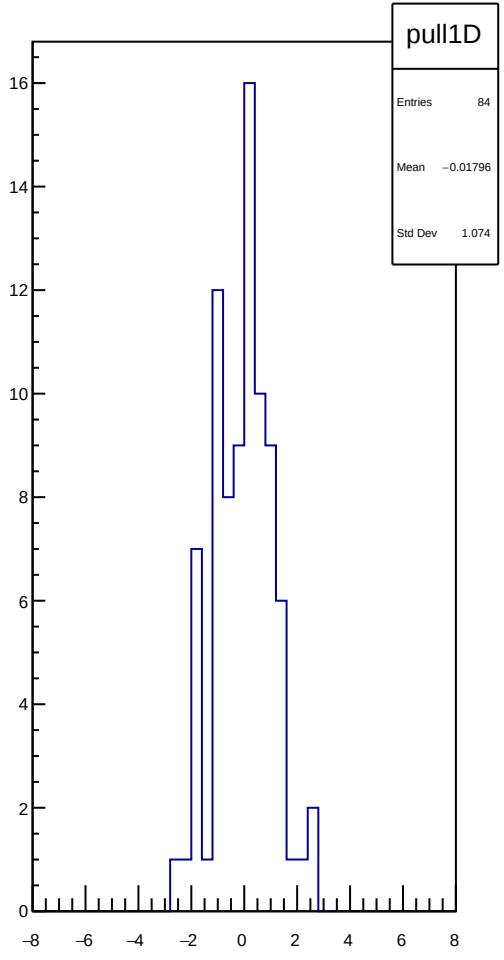

dit_asym_atl_avg_rms vs run
χ² / ndf 1.585e+04 / 83
p0 1900 ± 1.507
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

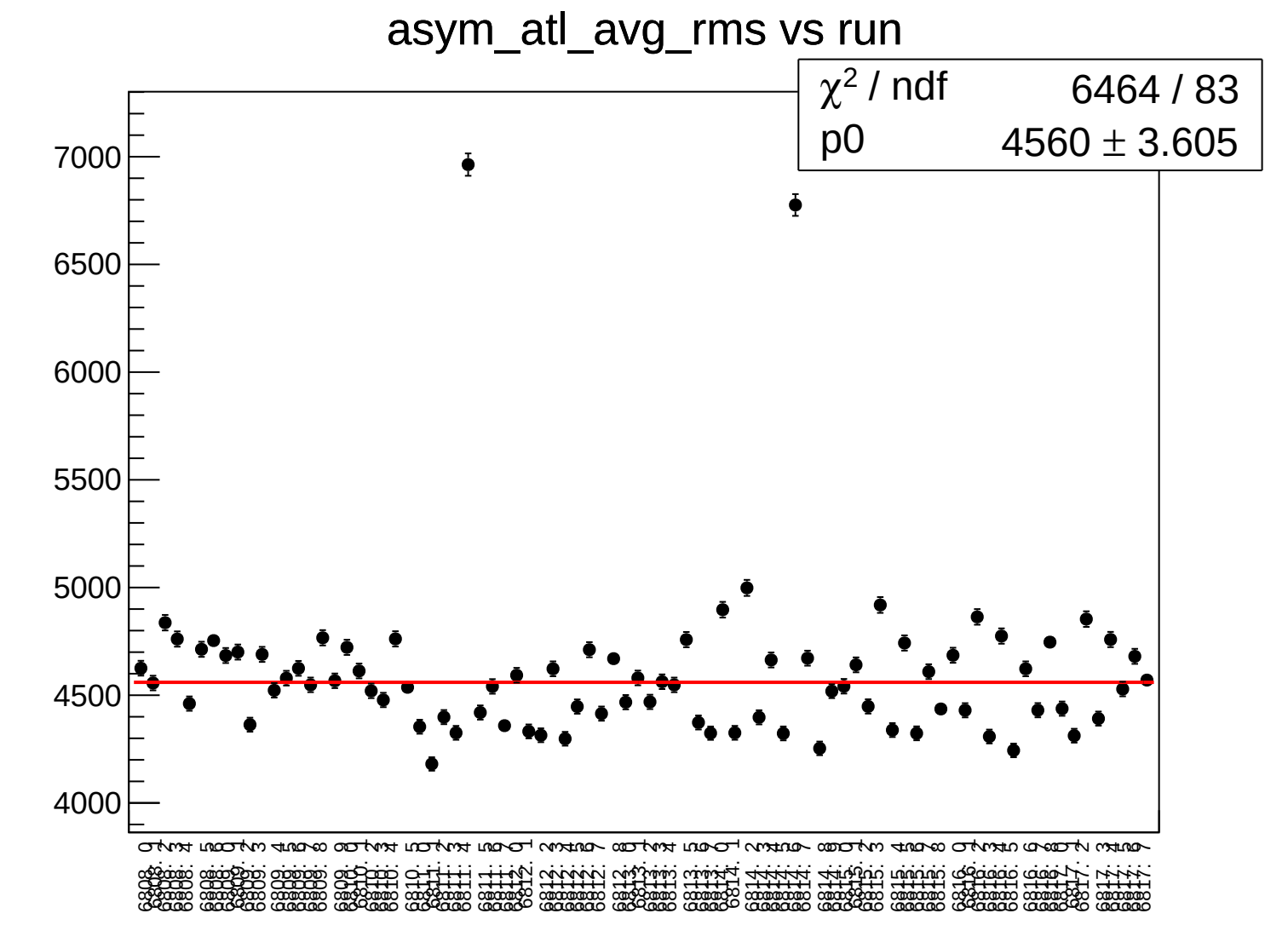

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 83.98 / 83
p0 2655 ± 4615
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −2.041
Std Dev 149.9
2
1
0
−1
−2

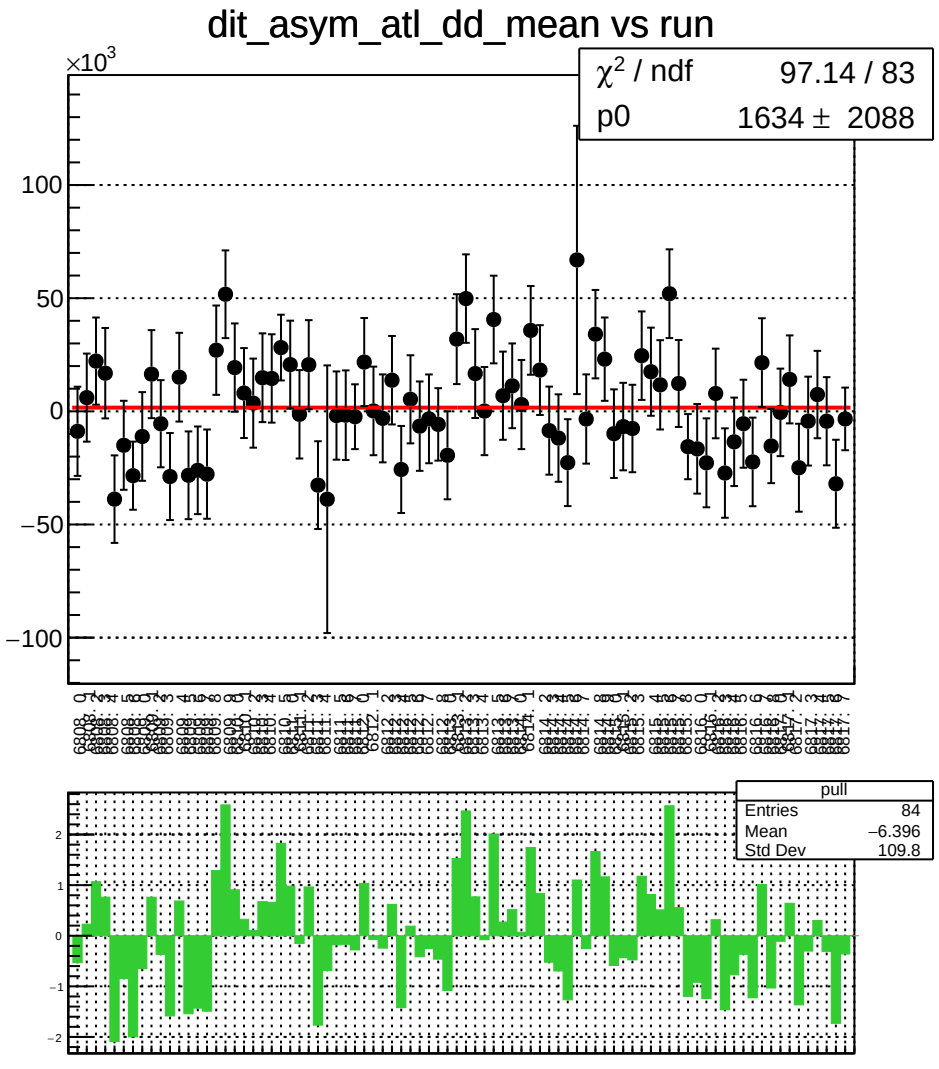

pull1D
Entries 84
Mean 0.004183
Std Dev 0.9999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

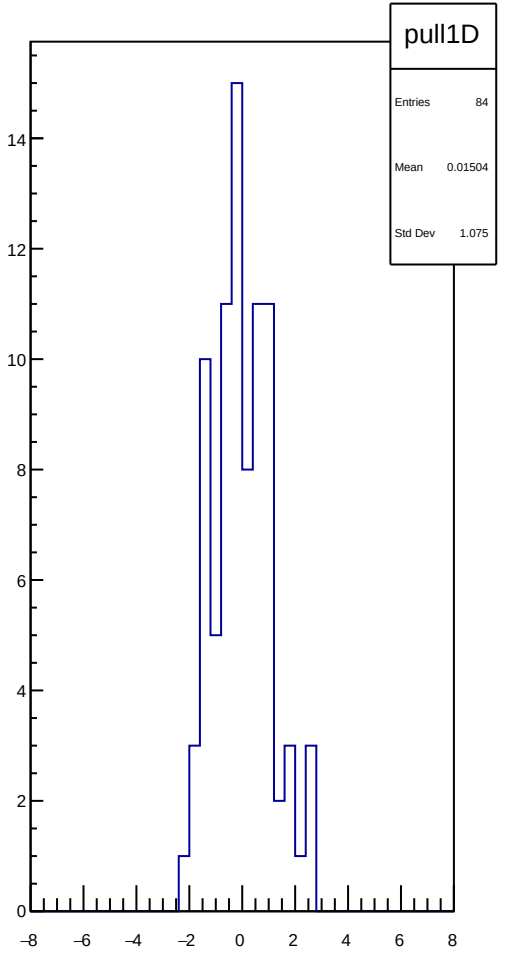

asym_atl_avg_correction_rms vs run
χ² / ndf 2927 / 83
p0 4132 ± 3.264
4600
4400
4200
4000
3800

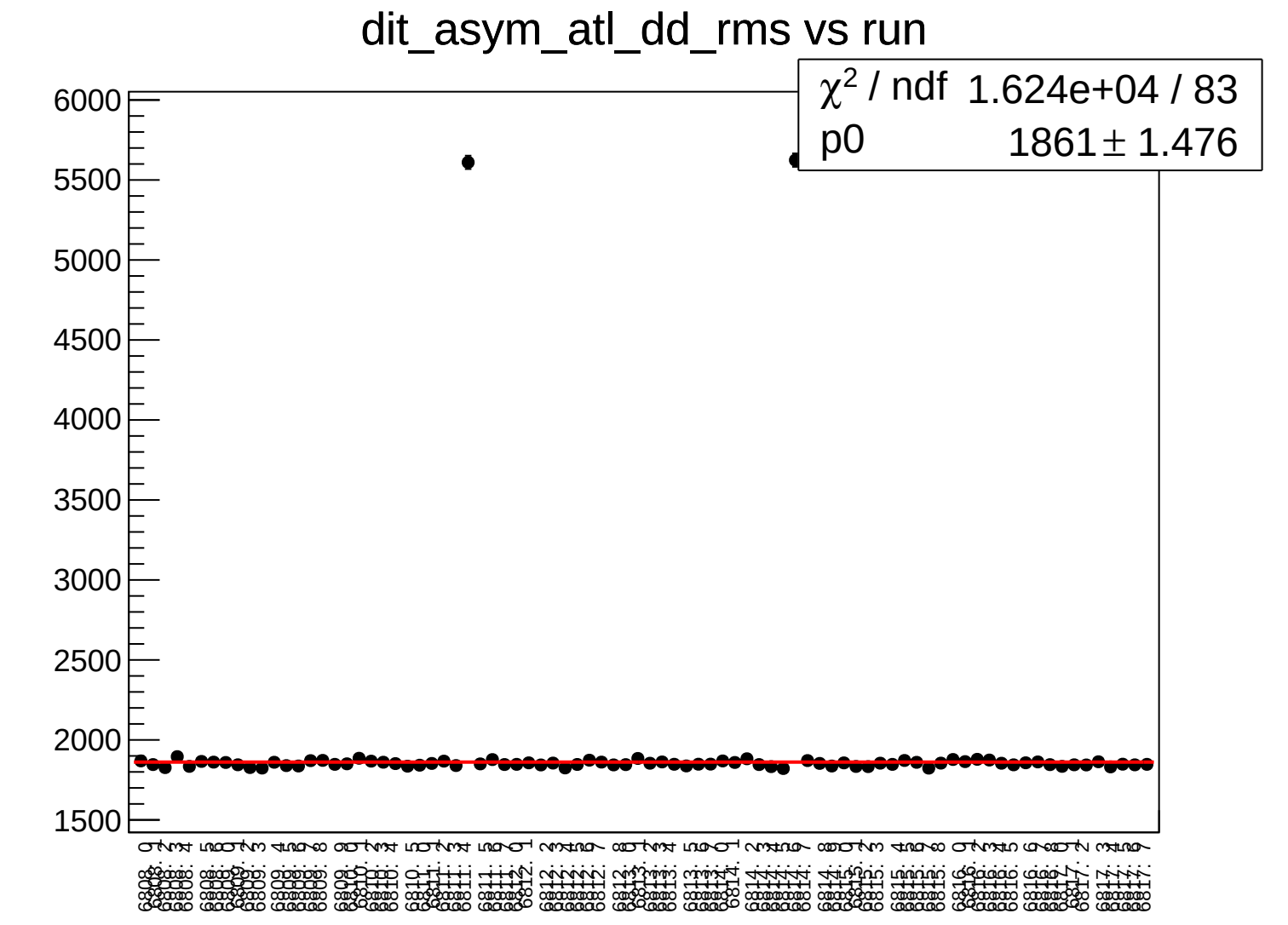

asym_atl_avg_mean vs run
×10^3
χ² / ndf 96.94 / 83
p0 −7047 ± 5099
200
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −5.741
Std Dev 106.4
2
1
0
−1
−2

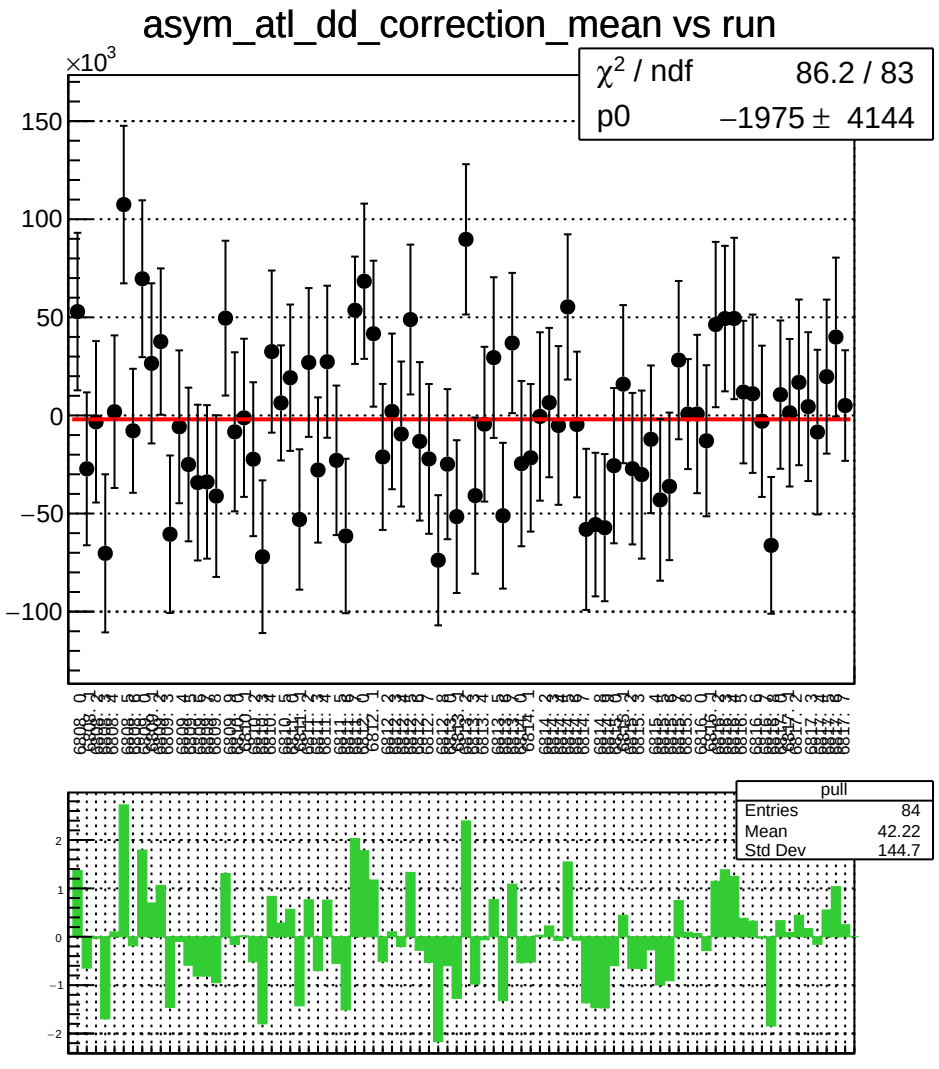

pull1D
Entries 84
Mean −0.01796
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

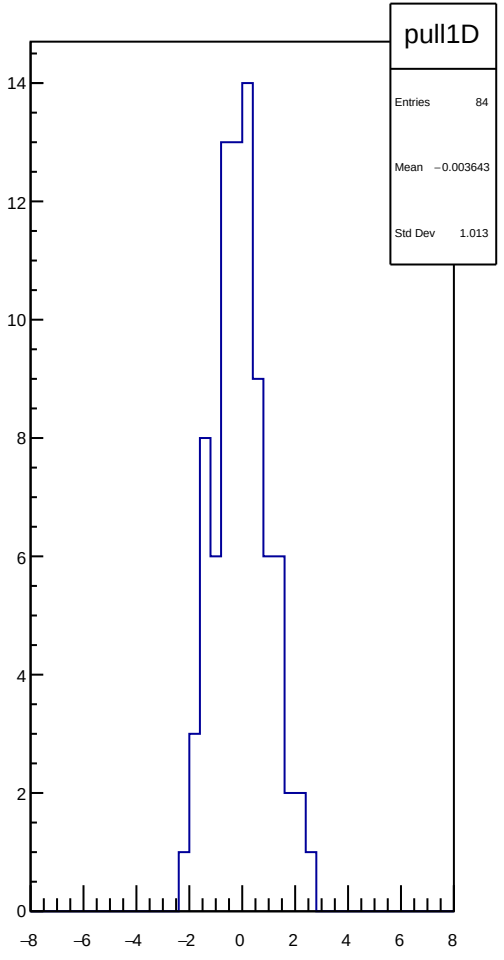

asym_atl_avg_rms vs run
χ^2 / ndf 6464 / 83
p0 4560 ± 3.605
7000
6500
6000
5500
5000
4500
4000

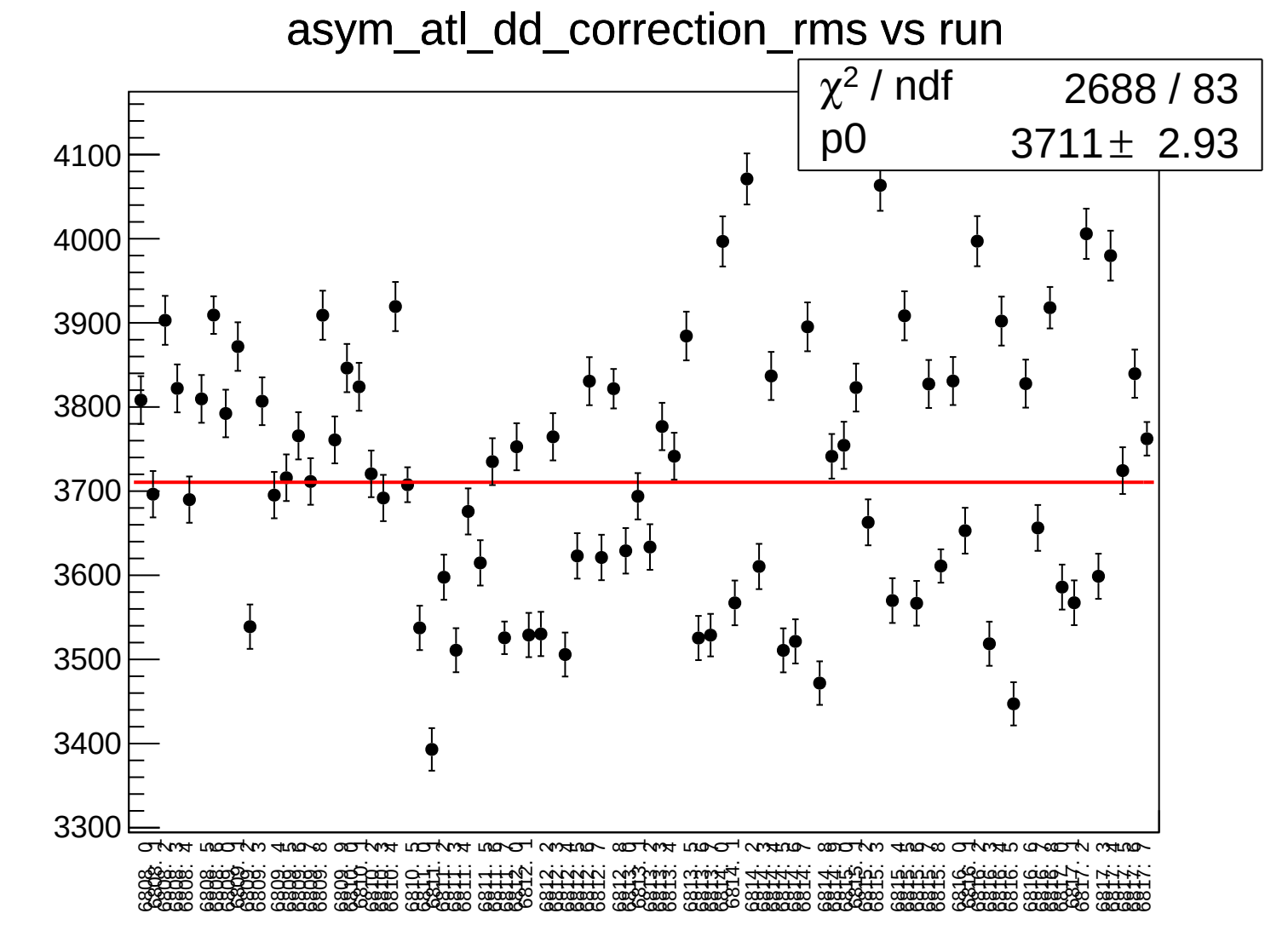

dit_asym_atl_dd_mean vs run
×10^3
χ² / ndf 97.14 / 83
p0 1634 ± 2088
100
50
0
−50
−100
pull
Entries 84
Mean −6.396
Std Dev 109.8
2
1
0
−1
−2

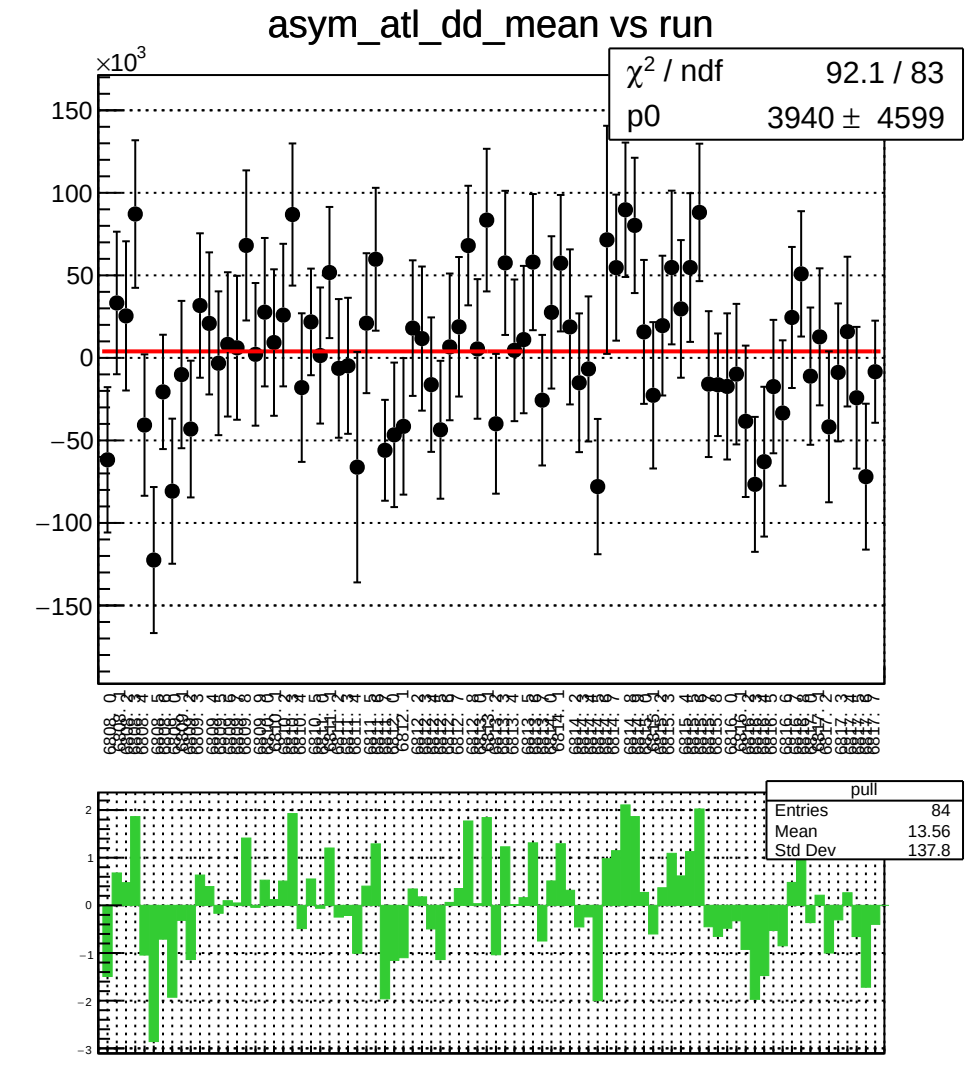

pull1D
Entries 84
Mean 0.01504
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

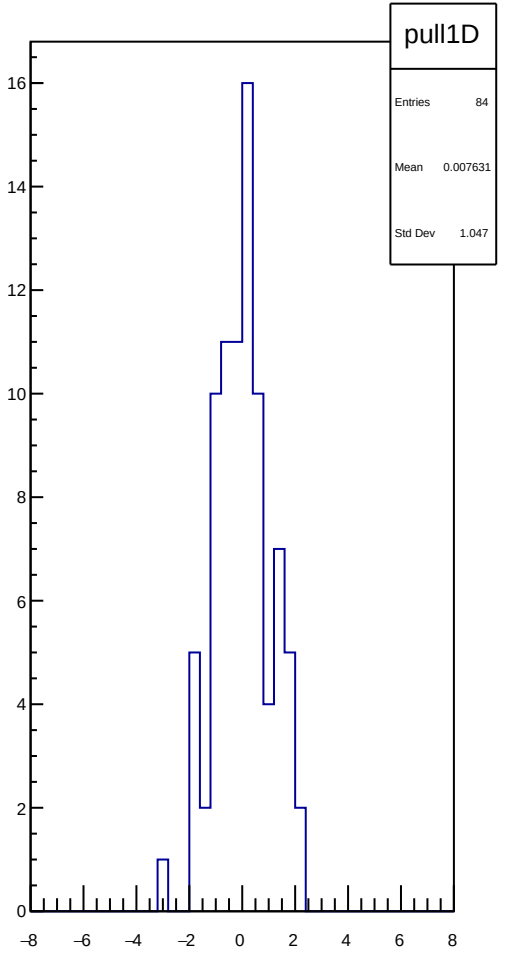

dit_asym_atl_dd_rms vs run
χ² / ndf 1.624e+04 / 83
p0 1861 ± 1.476
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

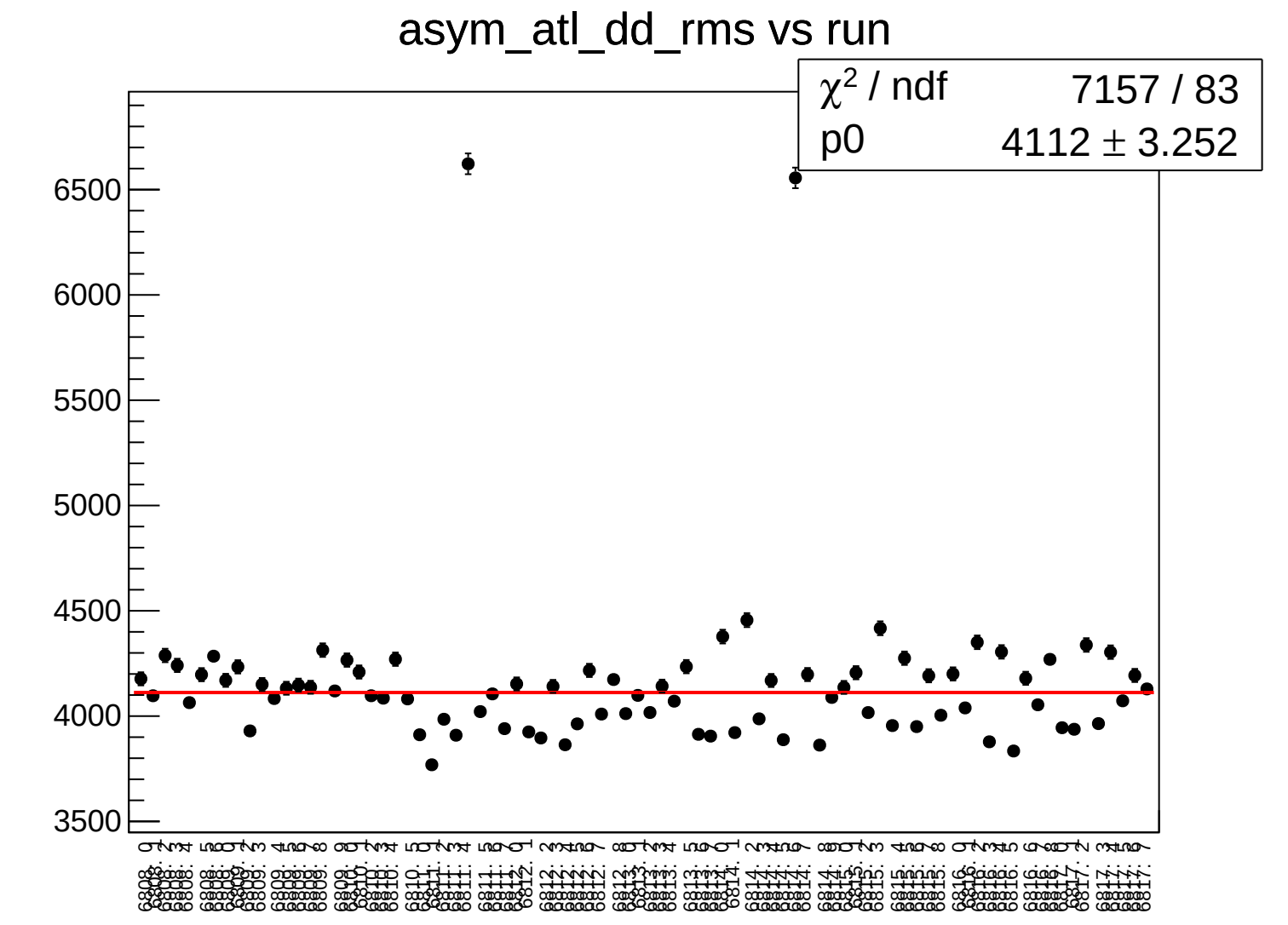

asym_atl_dd_correction_mean vs run
×10^3
χ^2 / ndf 86.2 / 83
p0 −1975 ± 4144
150
100
50
0
−50
−100
pull
Entries 84
Mean 42.22
Std Dev 144.7
2
1
0
−1
−2

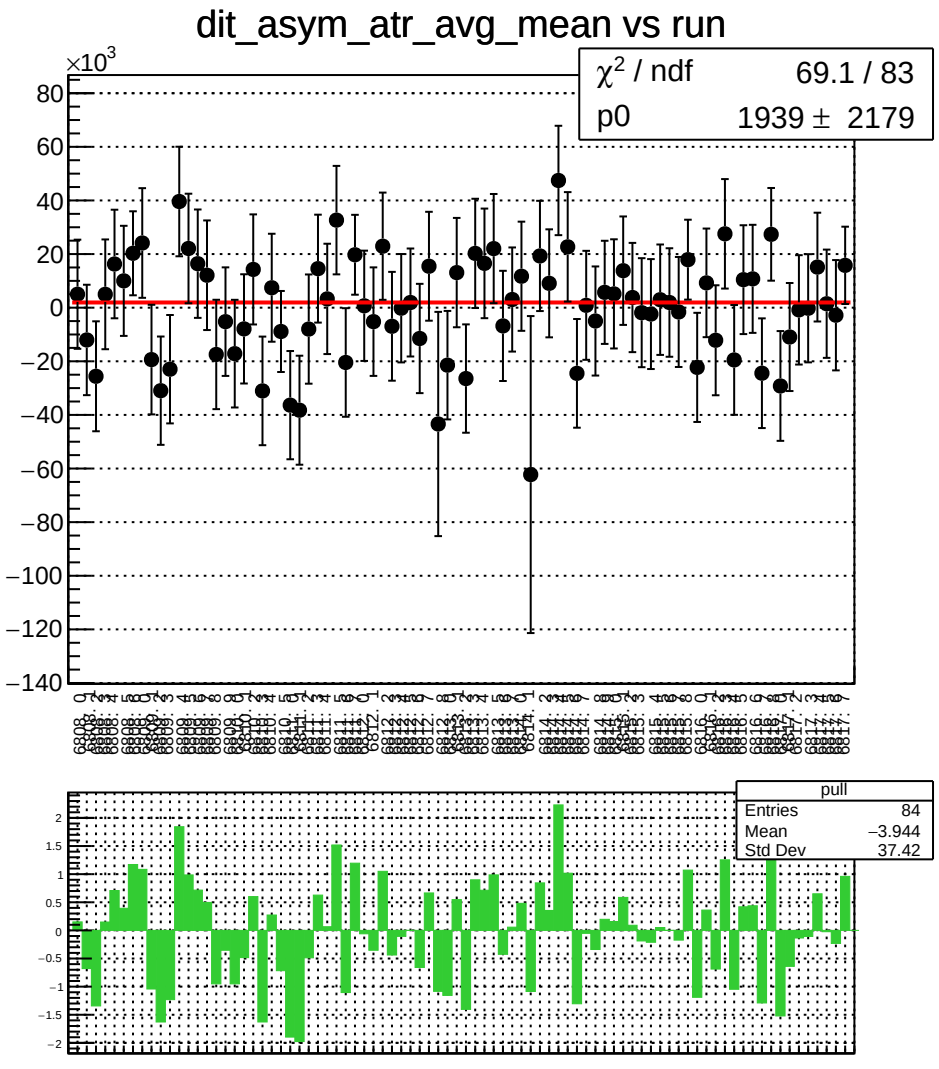

pull1D
Entries 84
Mean −0.003643
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

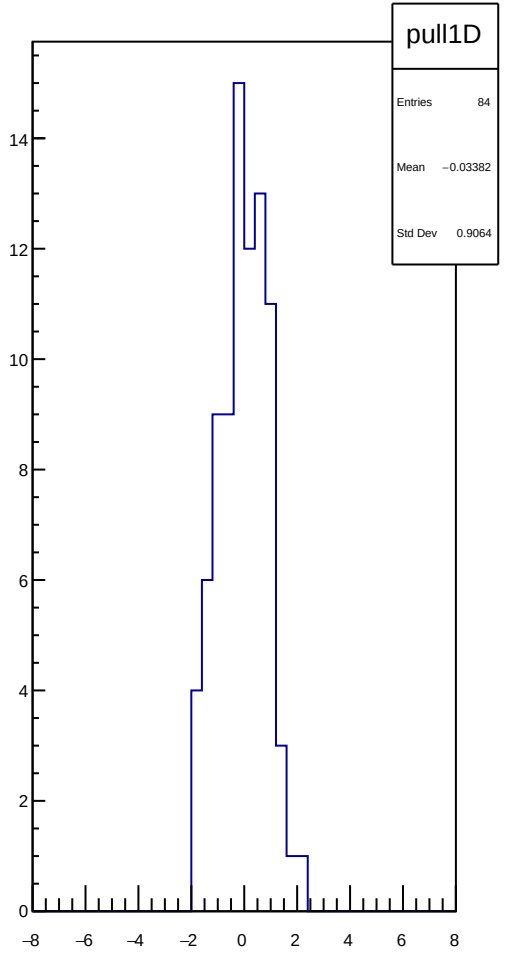

asym_atl_dd_correction_rms vs run
χ² / ndf 2688 / 83
p0 3711 ± 2.93
4100
4000
3900
3800
3700
3600
3500
3400
3300

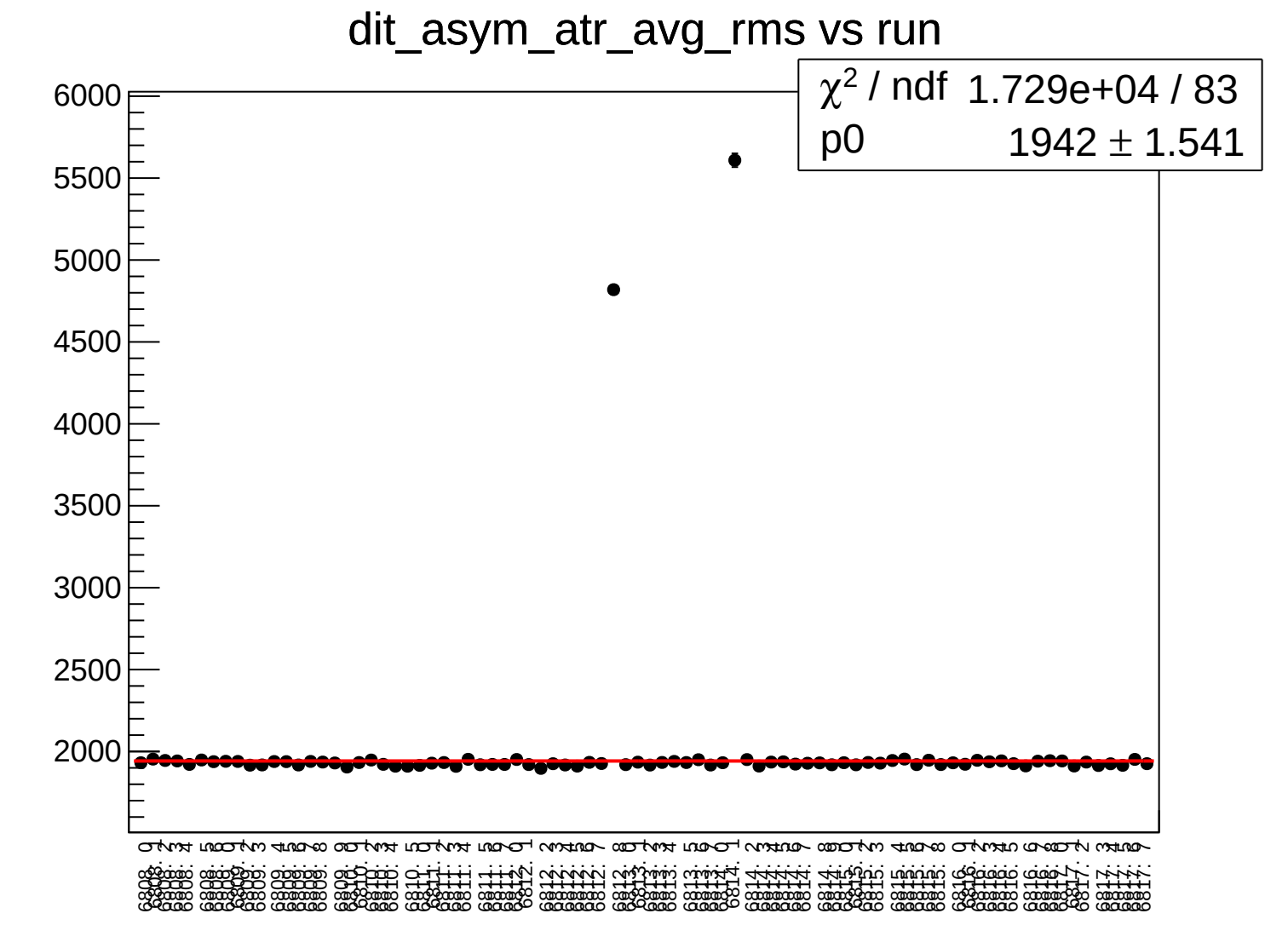

asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 92.1 / 83
p0 3940 ± 4599
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 13.56
Std Dev 137.8
2
1
0
−1
−2
−3

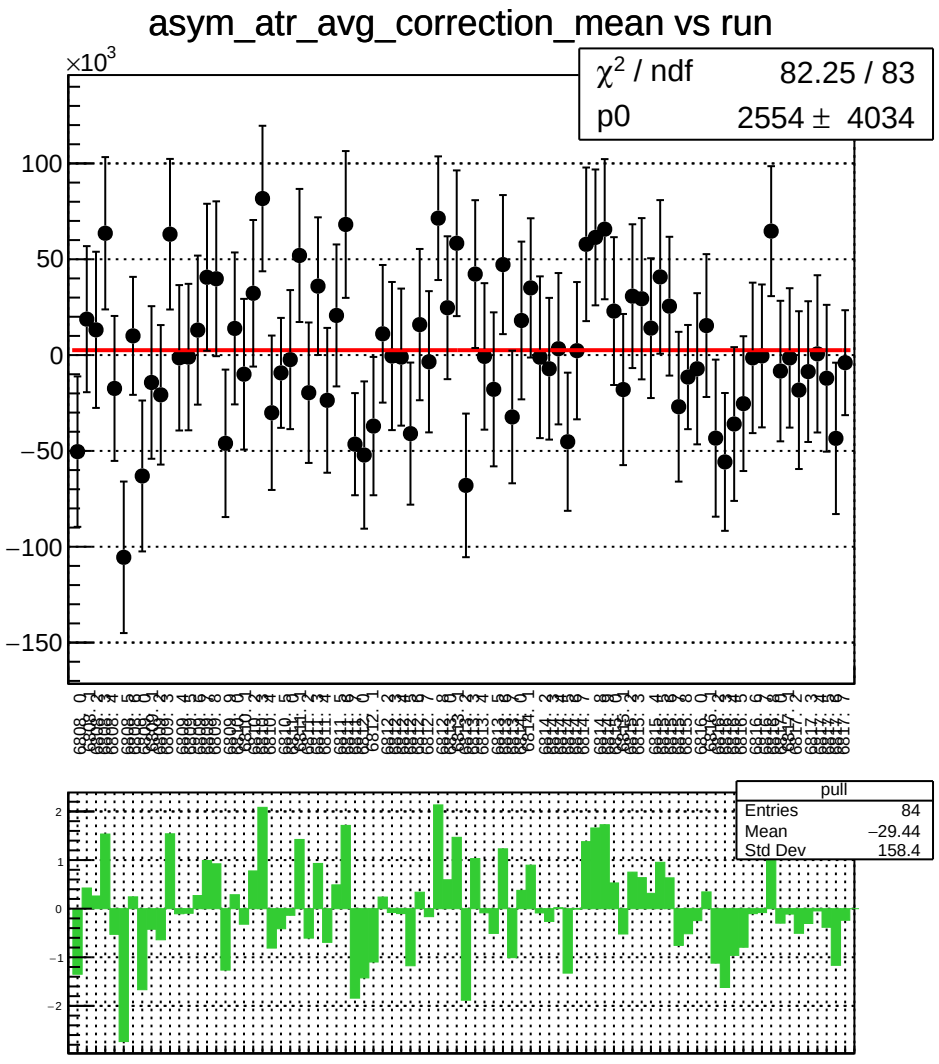

pull1D
Entries 84
Mean 0.007631
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

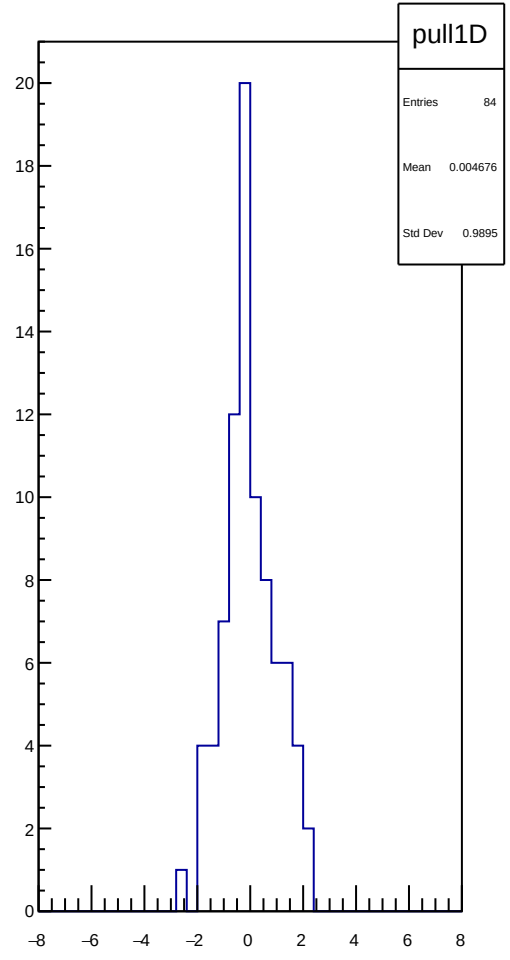

asym_atl_dd_rms vs run
χ^2 / ndf 7157 / 83
p0 4112 ± 3.252
6500
6000
5500
5000
4500
4000
3500

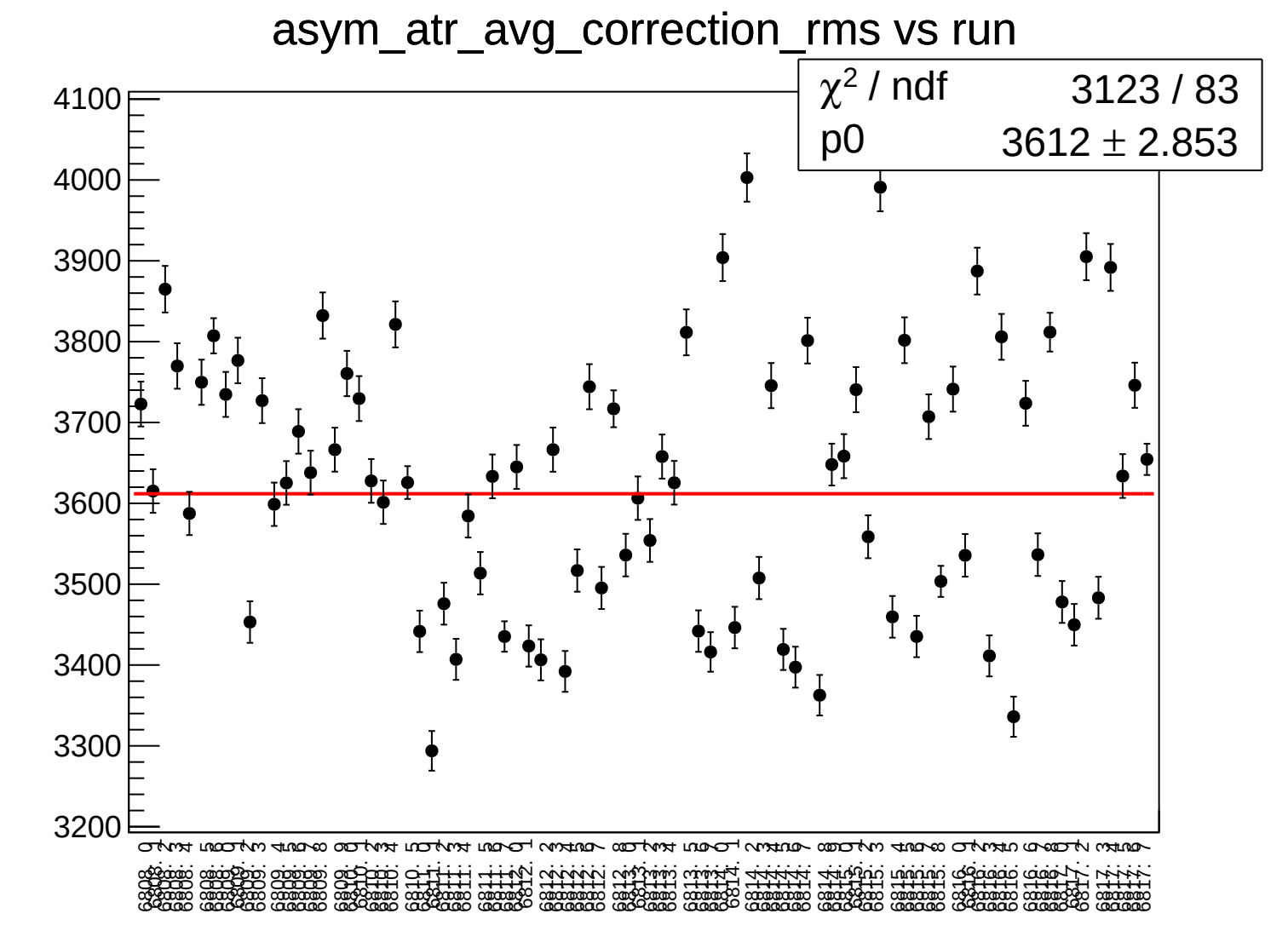

dit_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 69.1 / 83
p0 1939 ± 2179
pull
Entries 84
Mean −3.944
Std Dev 37.42

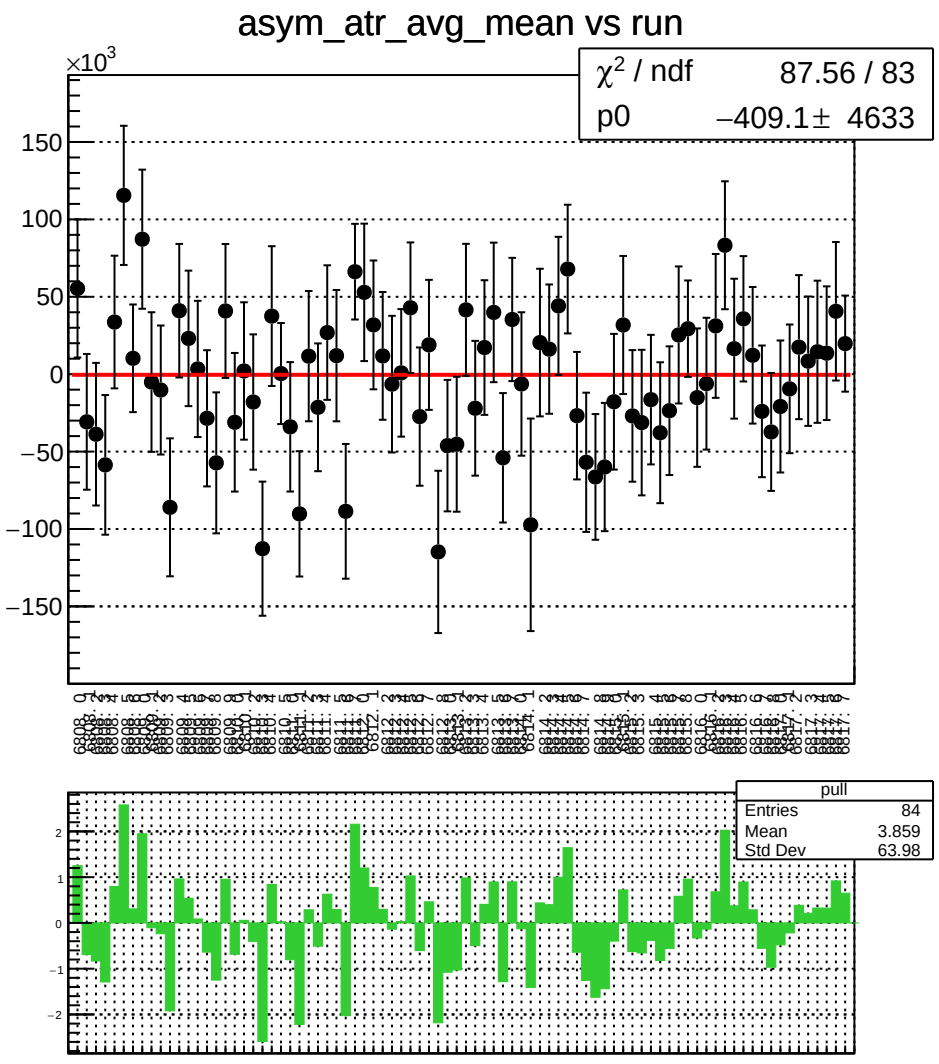

pull1D
Entries 84
Mean −0.03382
Std Dev 0.9064

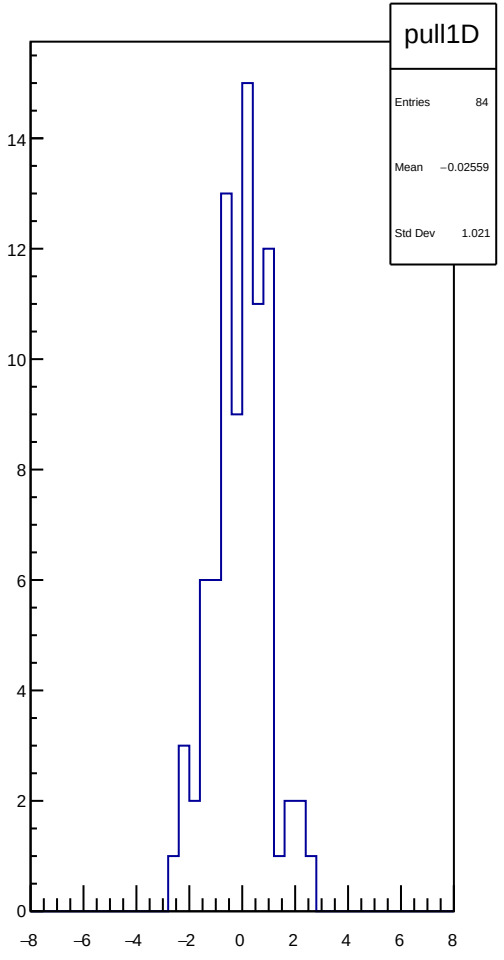

dit_asym_atr_avg_rms vs run
χ² / ndf 1.729e+04 / 83
p0 1942 ± 1.541
6000
5500
5000
4500
4000
3500
3000
2500
2000

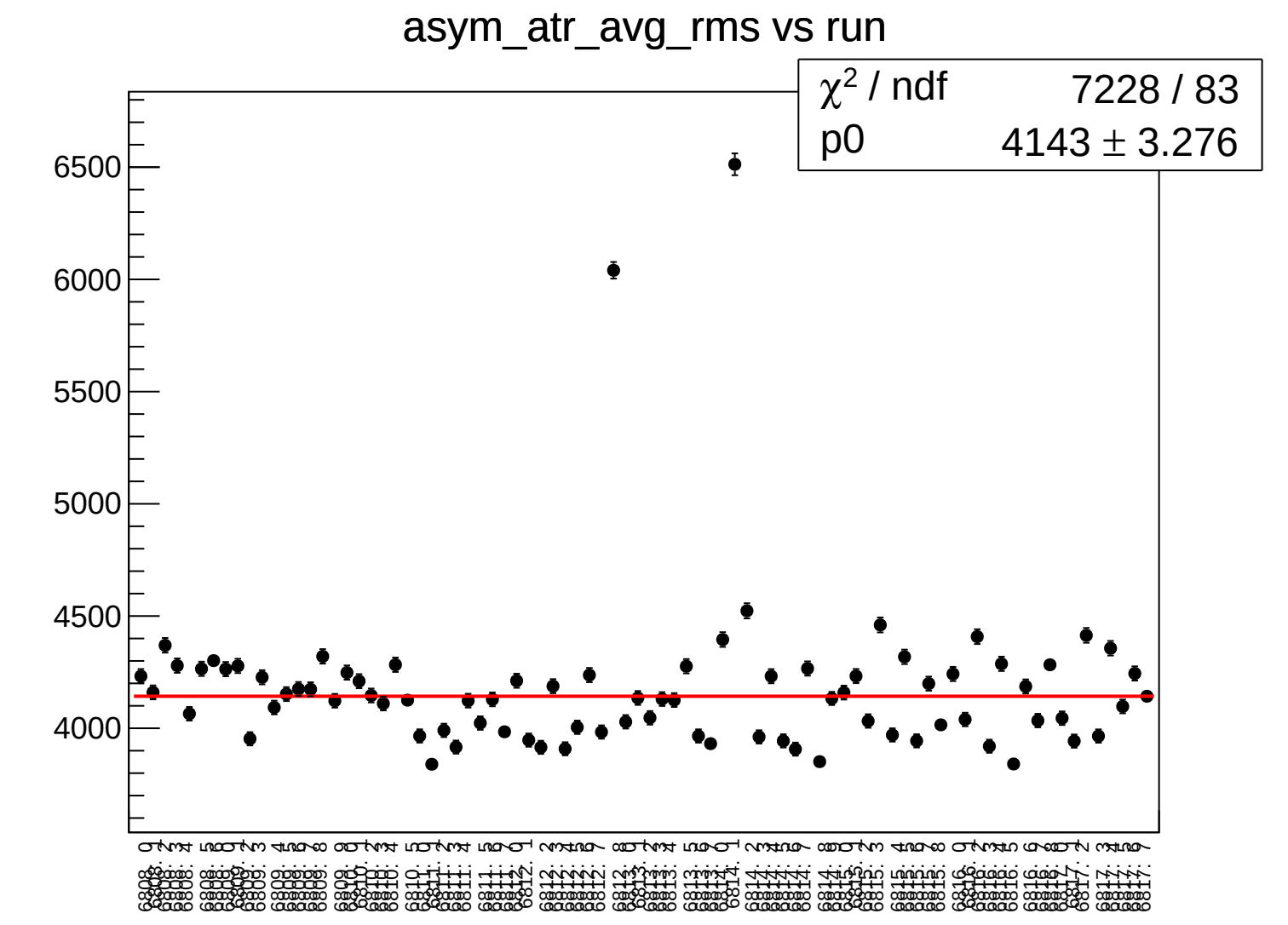

asym_atr_avg_correction_mean vs run
χ² / ndf 82.25 / 83
p0 2554 ± 4034
×10³
100
50
0
−50
−100
−150
pull
Entries 84
Mean −29.44
Std Dev 158.4
2
1
0
−1
−2

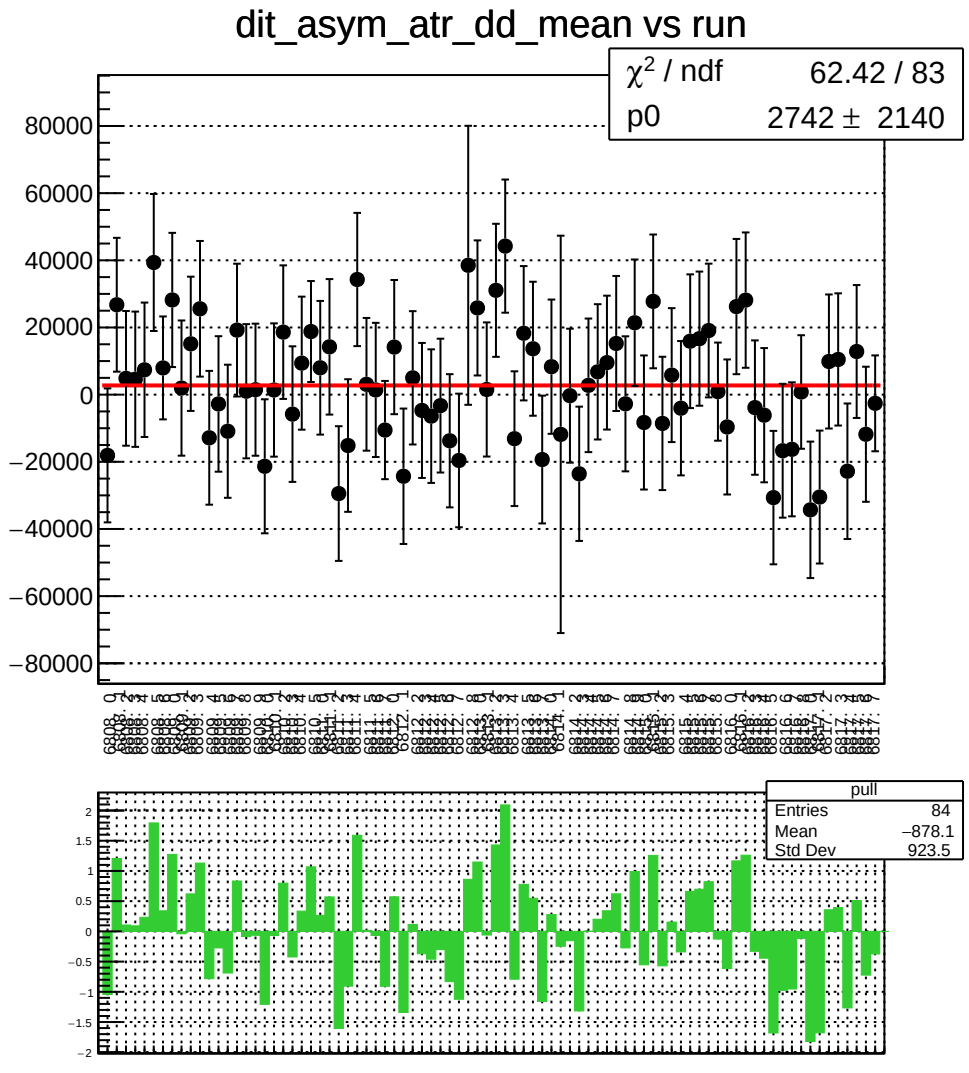

pull1D
Entries 84
Mean 0.004676
Std Dev 0.9895
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

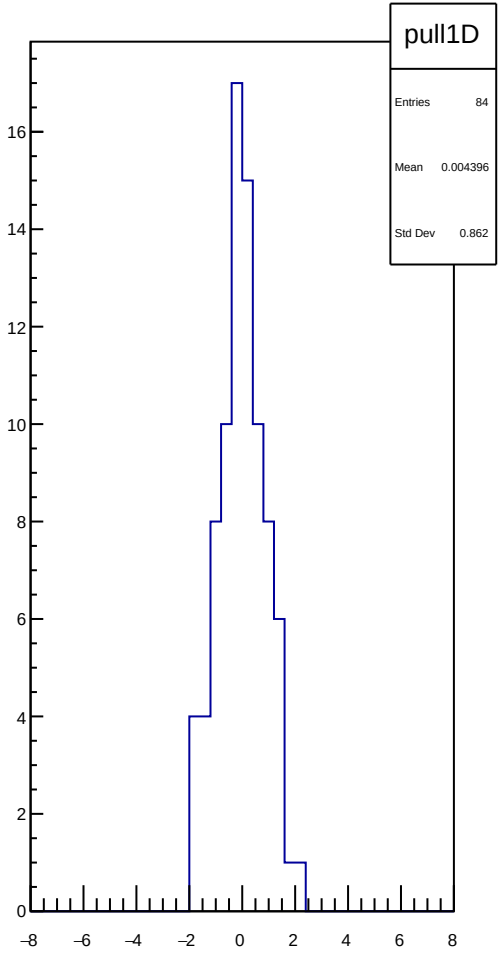

asym_atr_avg_correction_rms vs run
χ² / ndf 3123 / 83
p0 3612 ± 2.853
4100
4000
3900
3800
3700
3600
3500
3400
3300
3200

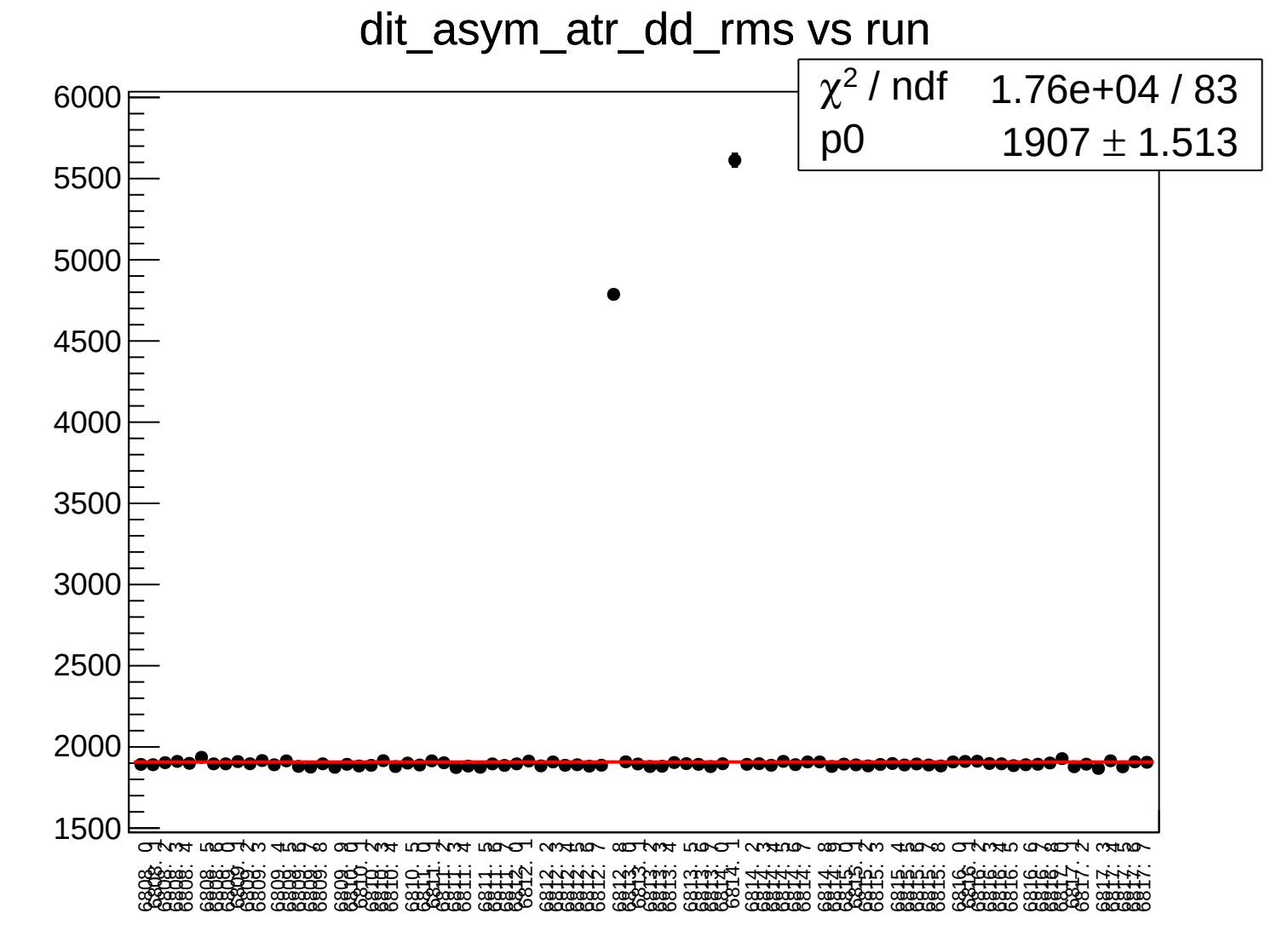

asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 87.56 / 83
p0 −409.1± 4633
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean 3.859
Std Dev 63.98
2
1
0
−1
−2

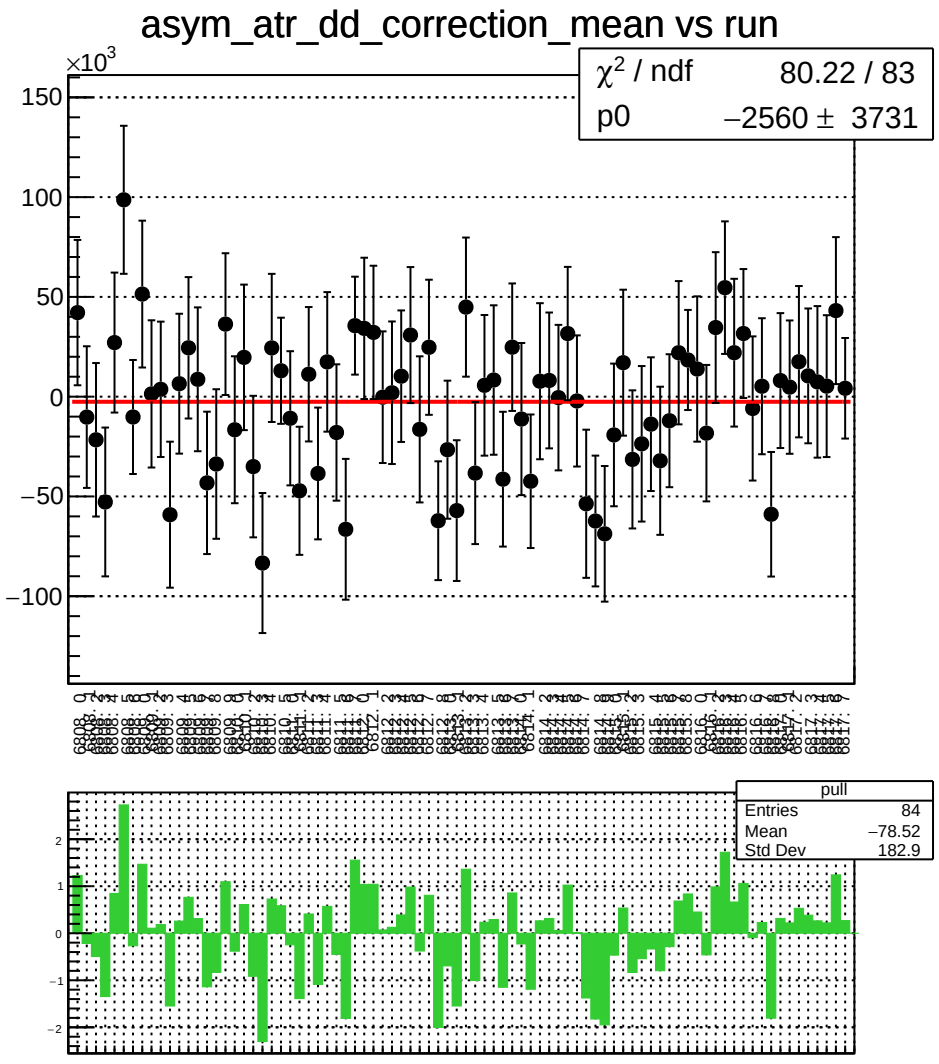

pull1D
Entries 84
Mean −0.02559
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

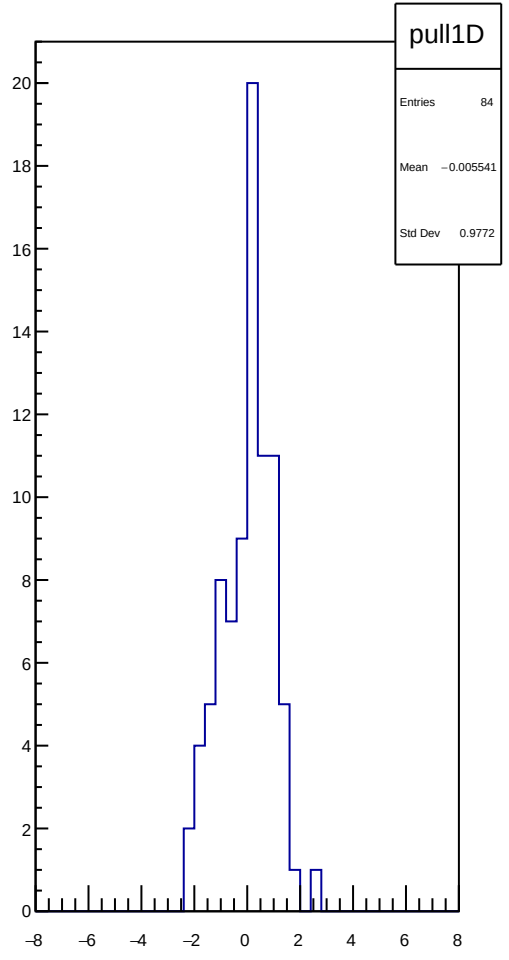

asym_atr_avg_rms vs run
χ² / ndf 7228 / 83
p0 4143 ± 3.276
6500
6000
5500
5000
4500
4000

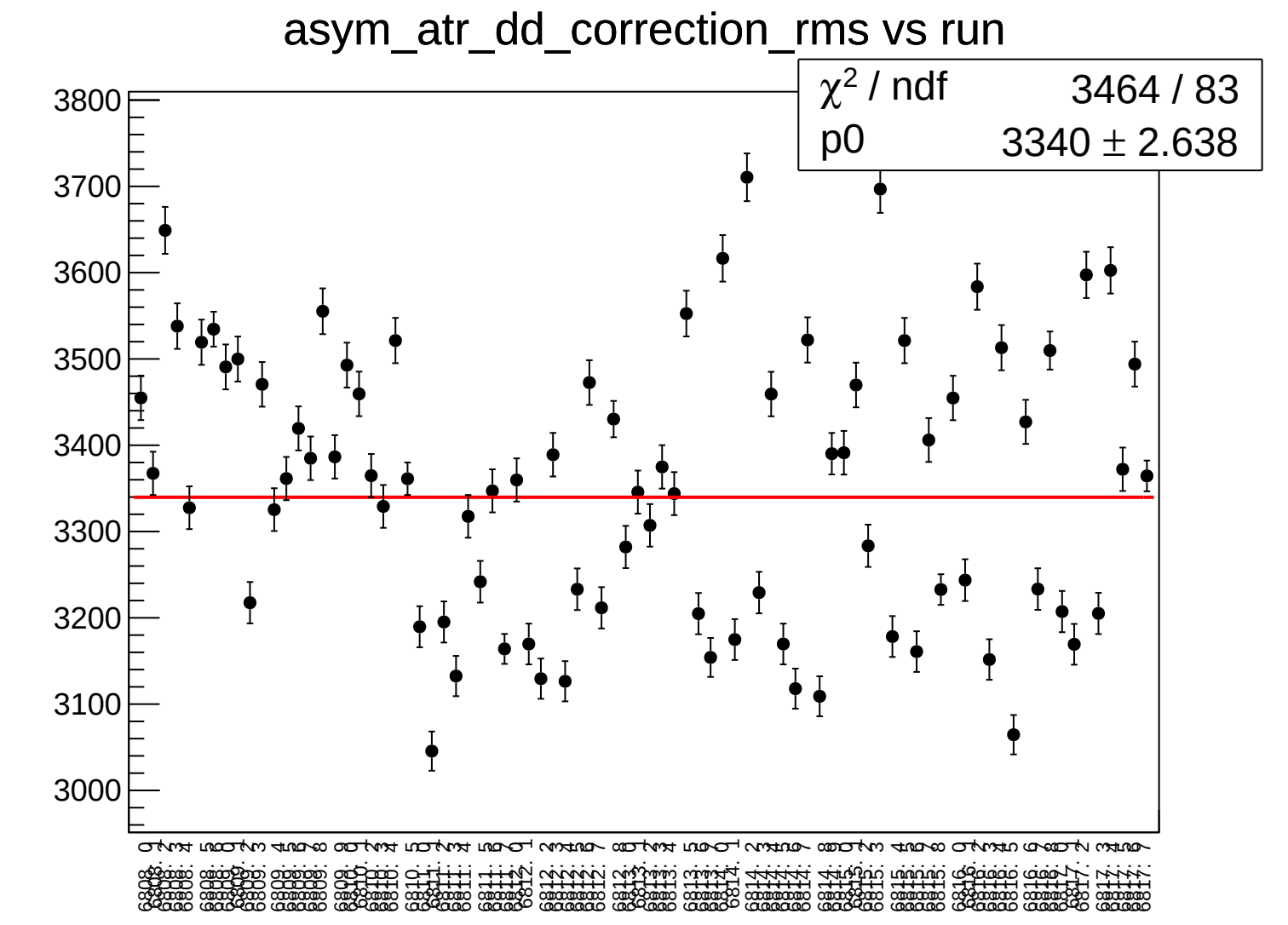

dit_asym_atr_dd_mean vs run
χ² / ndf 62.42 / 83
p0 2742 ± 2140
pull
Entries 84
Mean −878.1
Std Dev 923.5

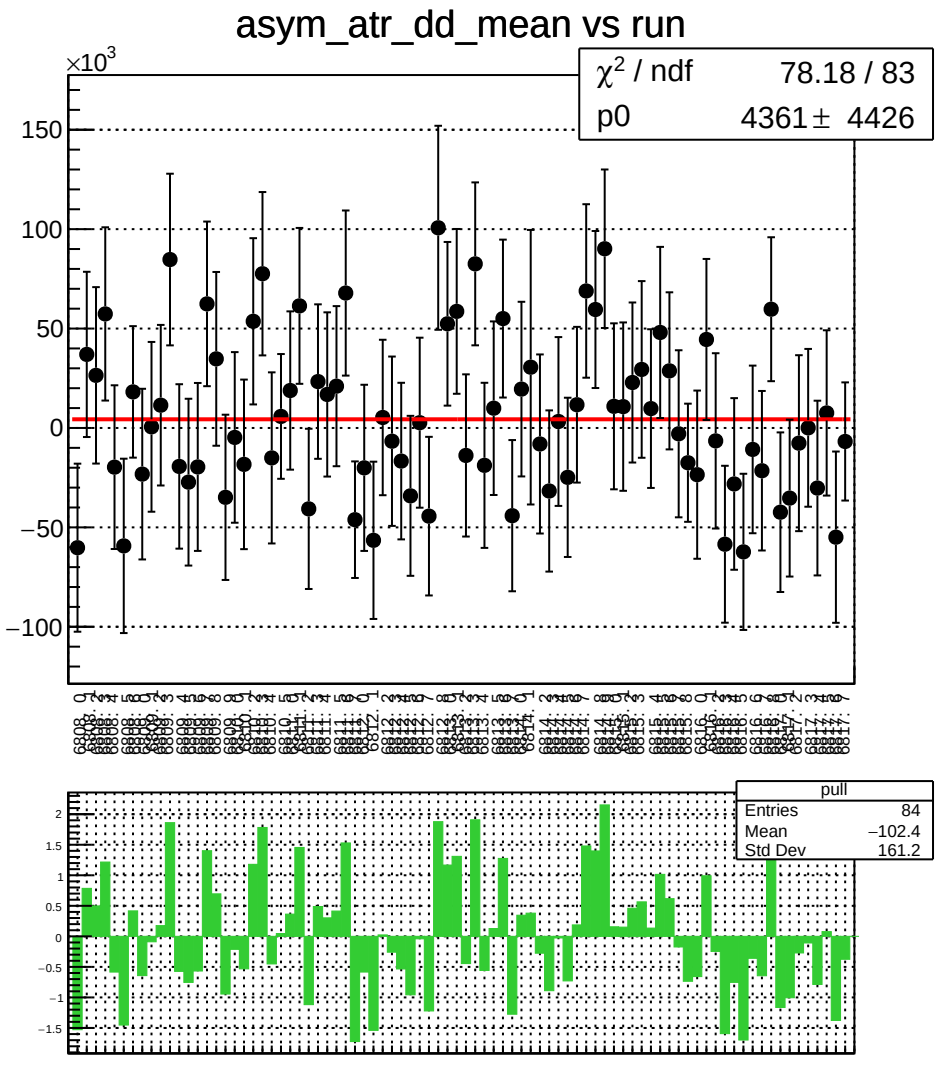

pull1D
Entries 84
Mean 0.004396
Std Dev 0.862

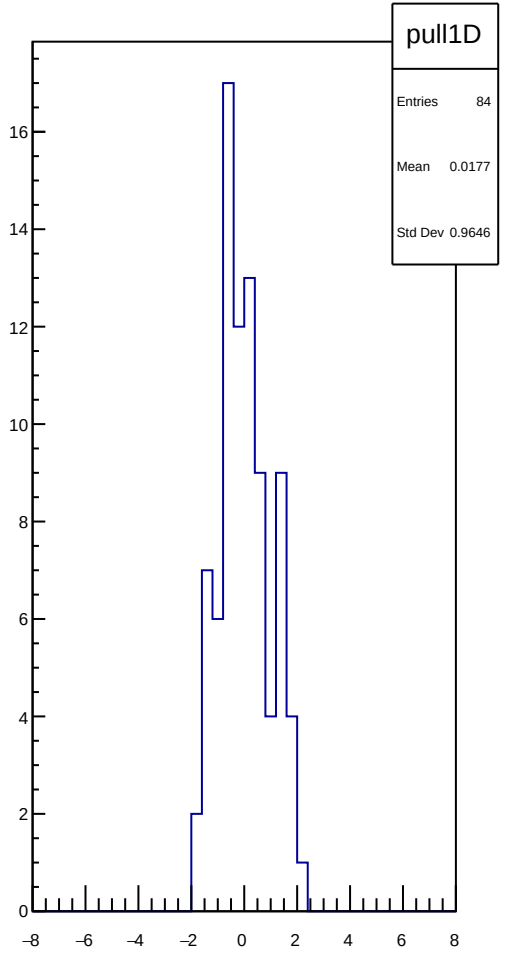

dit_asym_atr_dd_rms vs run
χ² / ndf 1.76e+04 / 83
p0 1907 ± 1.513
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

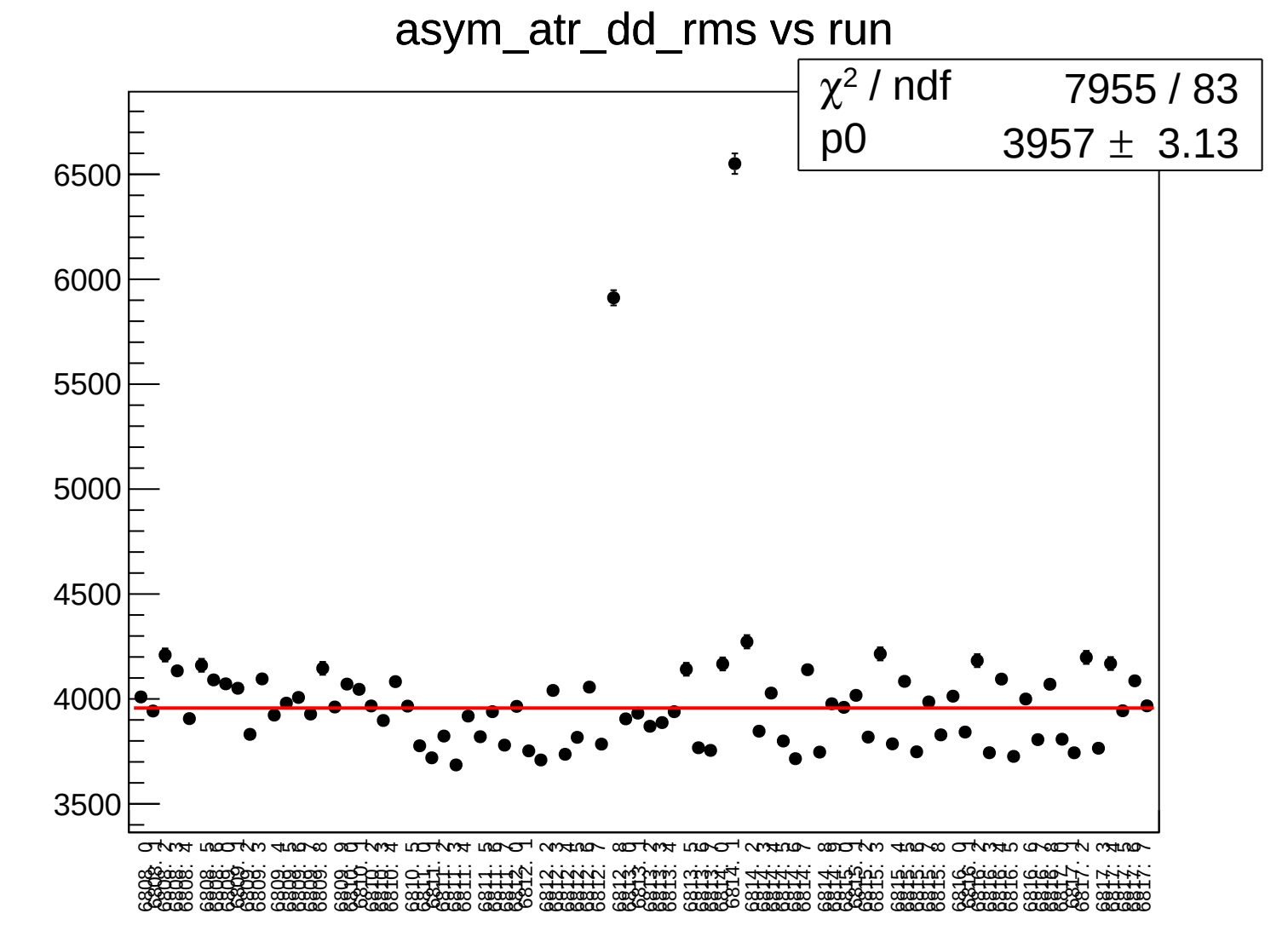

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 80.22 / 83
p0 −2560 ± 3731
150
100
50
0
−50
−100
pull
Entries 84
Mean −78.52
Std Dev 182.9
2
1
0
−1
−2

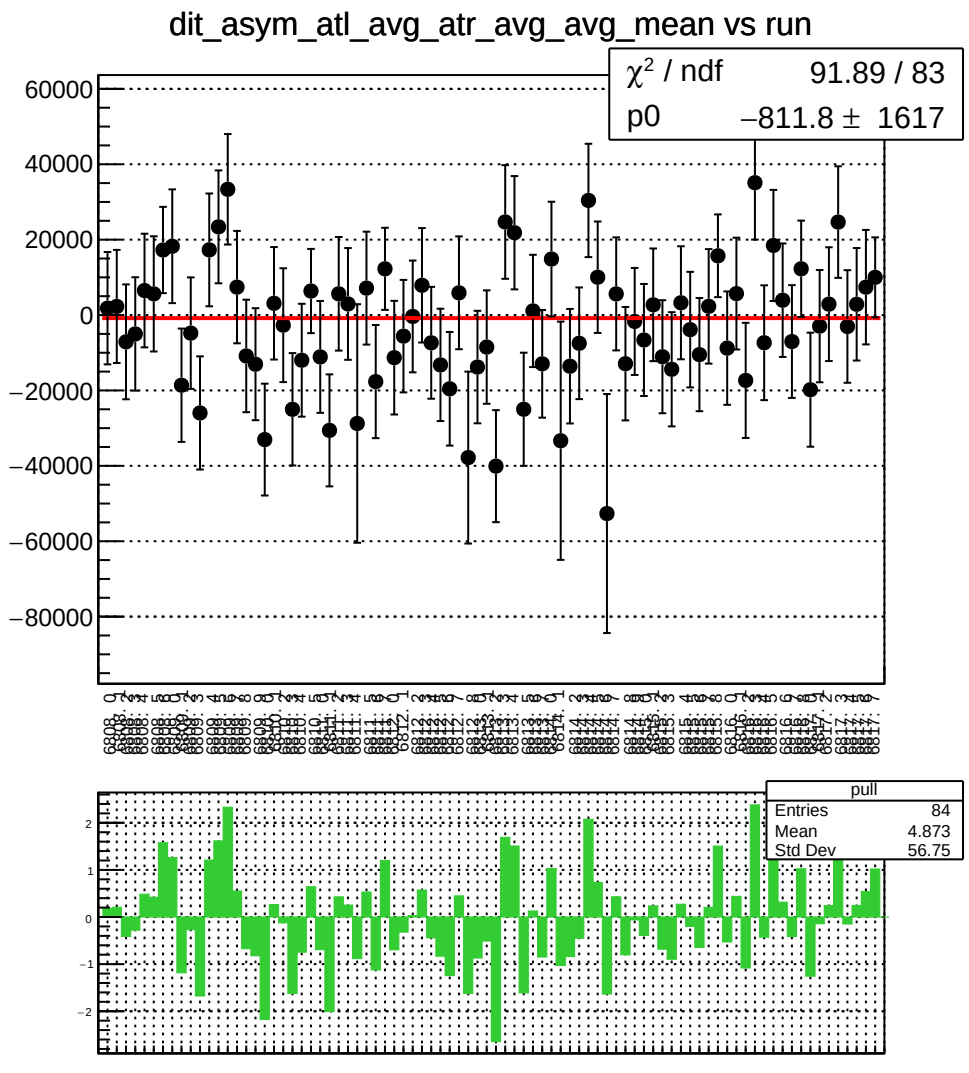

pull1D
Entries 84
Mean −0.005541
Std Dev 0.9772
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

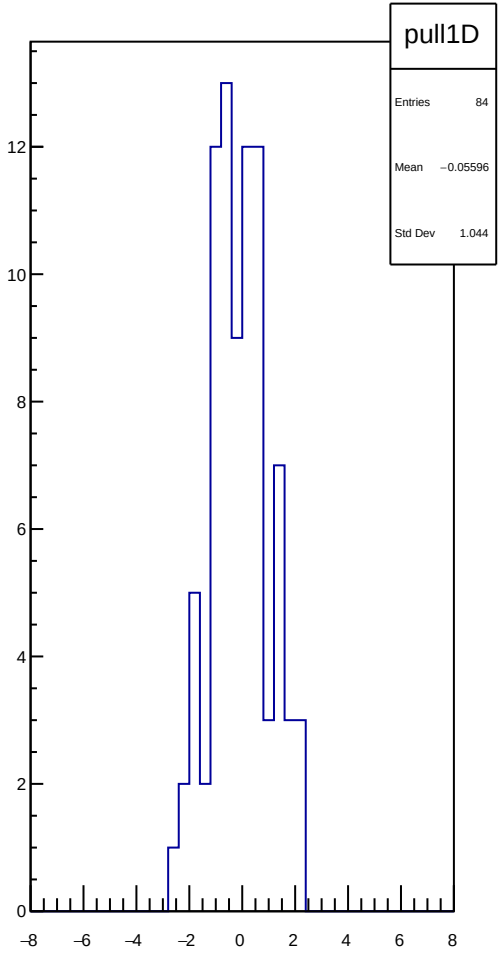

asym_atr_dd_correction_rms vs run
χ² / ndf 3464 / 83
p0 3340 ± 2.638
3800
3700
3600
3500
3400
3300
3200
3100
3000

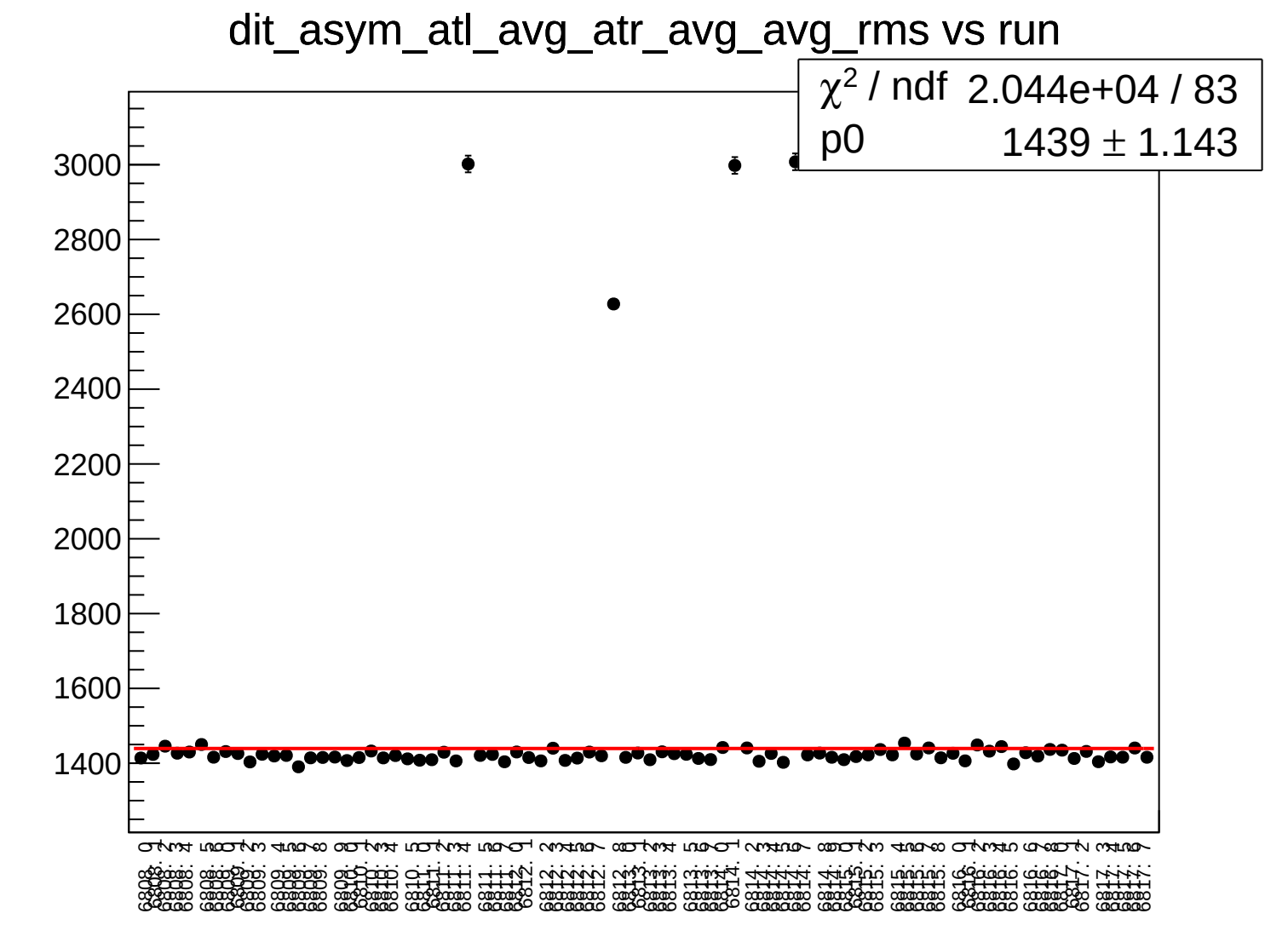

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 78.18 / 83
p0 4361 ± 4426
150
100
50
0
−50
−100
pull
Entries 84
Mean −102.4
Std Dev 161.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

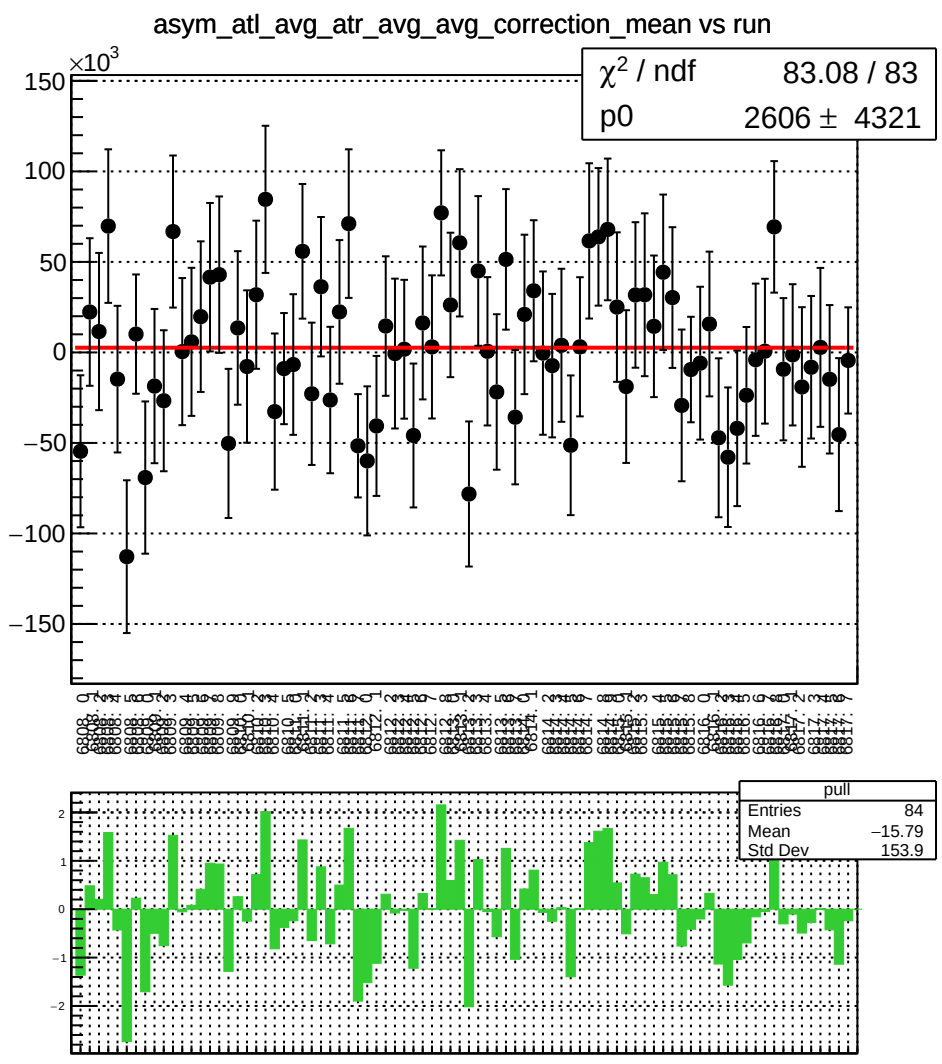

pull1D
Entries 84
Mean 0.0177
Std Dev 0.9646
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

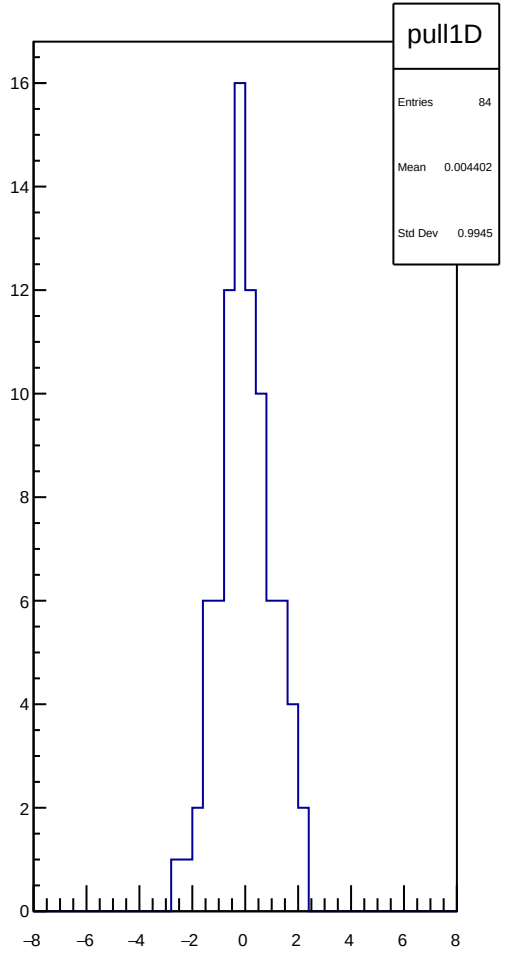

asym_atr_dd_rms vs run
χ^2 / ndf 7955 / 83
p0 3957 ± 3.13
6500
6000
5500
5000
4500
4000
3500

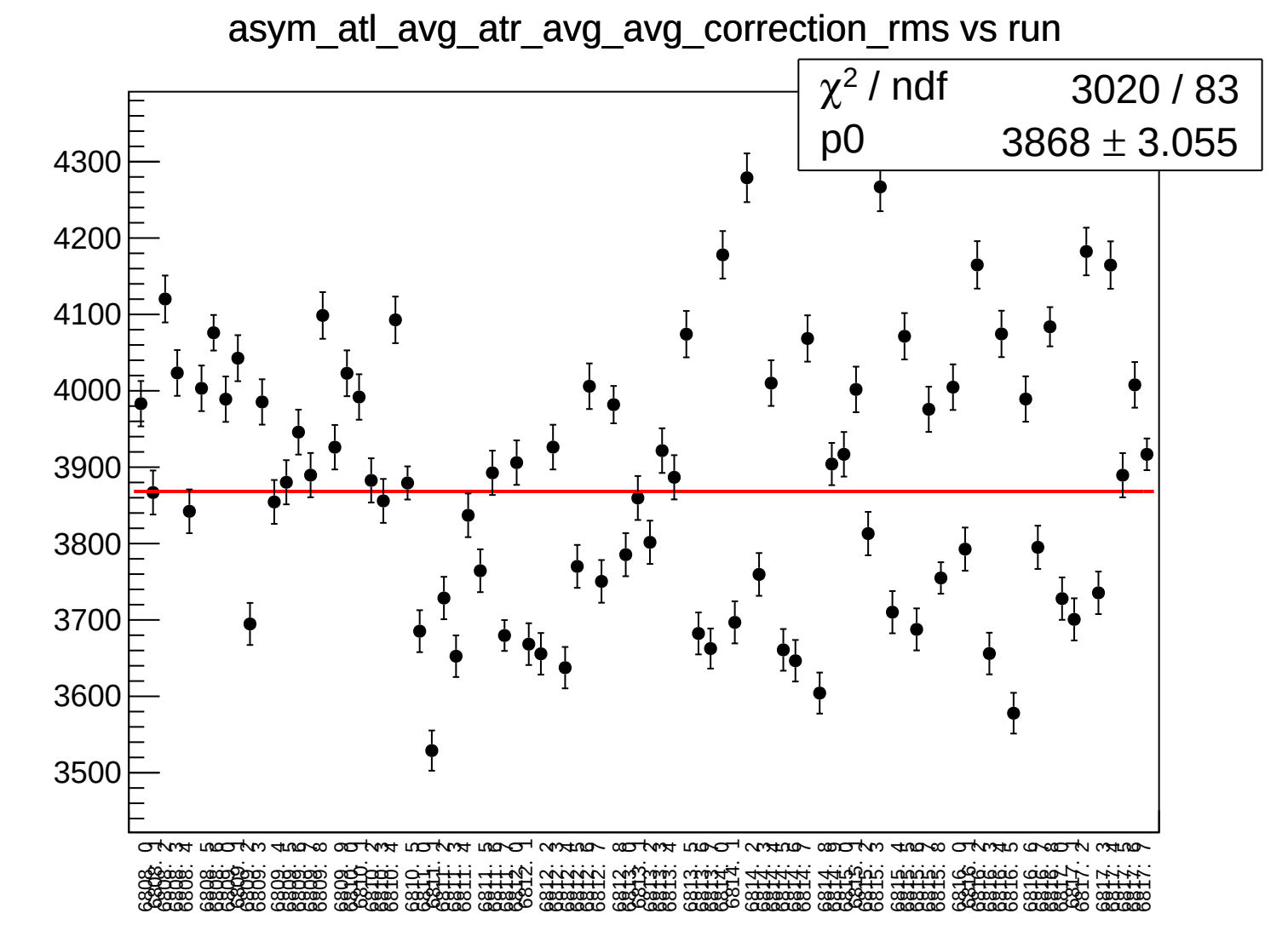

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 91.89 / 83
p0 −811.8 ± 1617
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 4.873
Std Dev 56.75
2
1
0
−1
−2

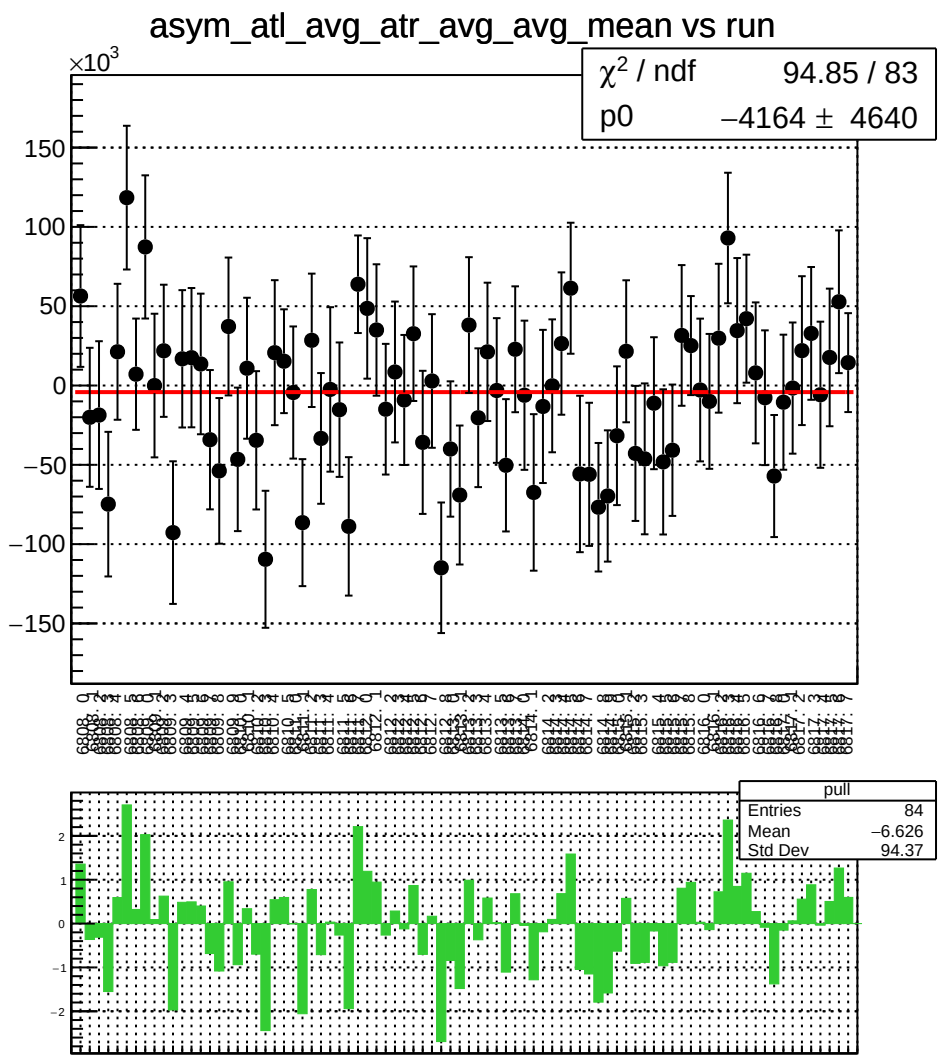

pull1D
Entries 84
Mean −0.05596
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

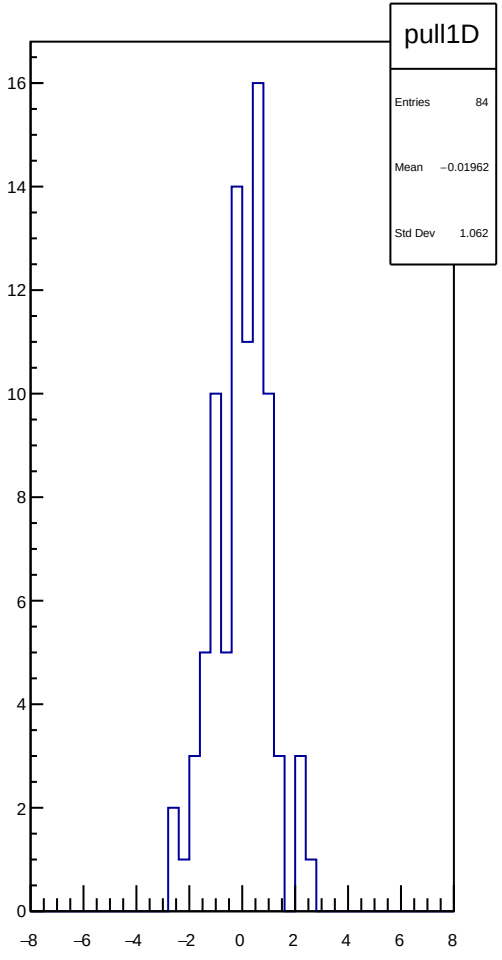

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2.044e+04 / 83
p0 1439 ± 1.143
3000
2800
2600
2400
2200
2000
1800
1600
1400

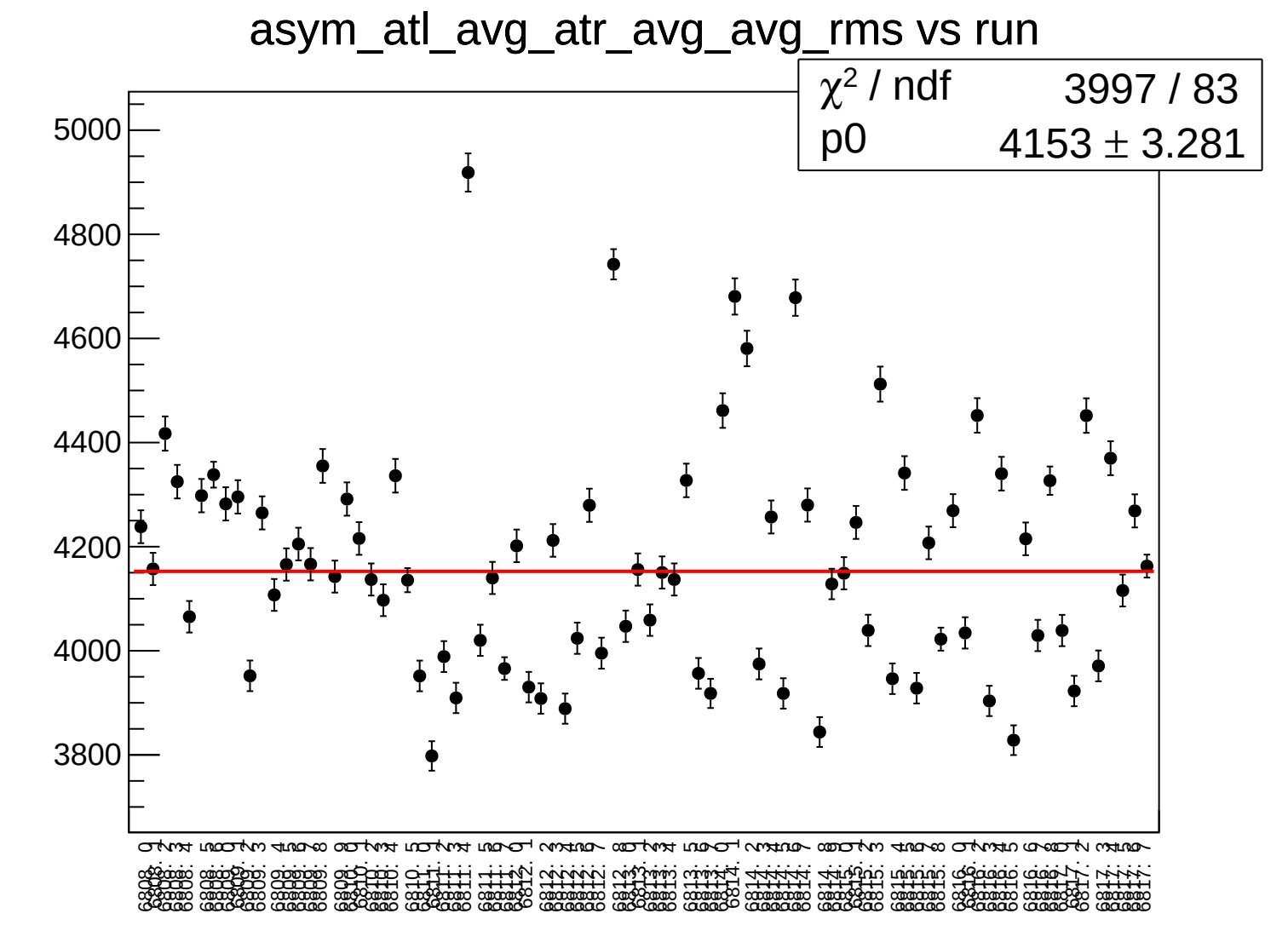

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 83.08 / 83
p0 2606 ± 4321
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −15.79
Std Dev 153.9
2
1
0
−1
−2

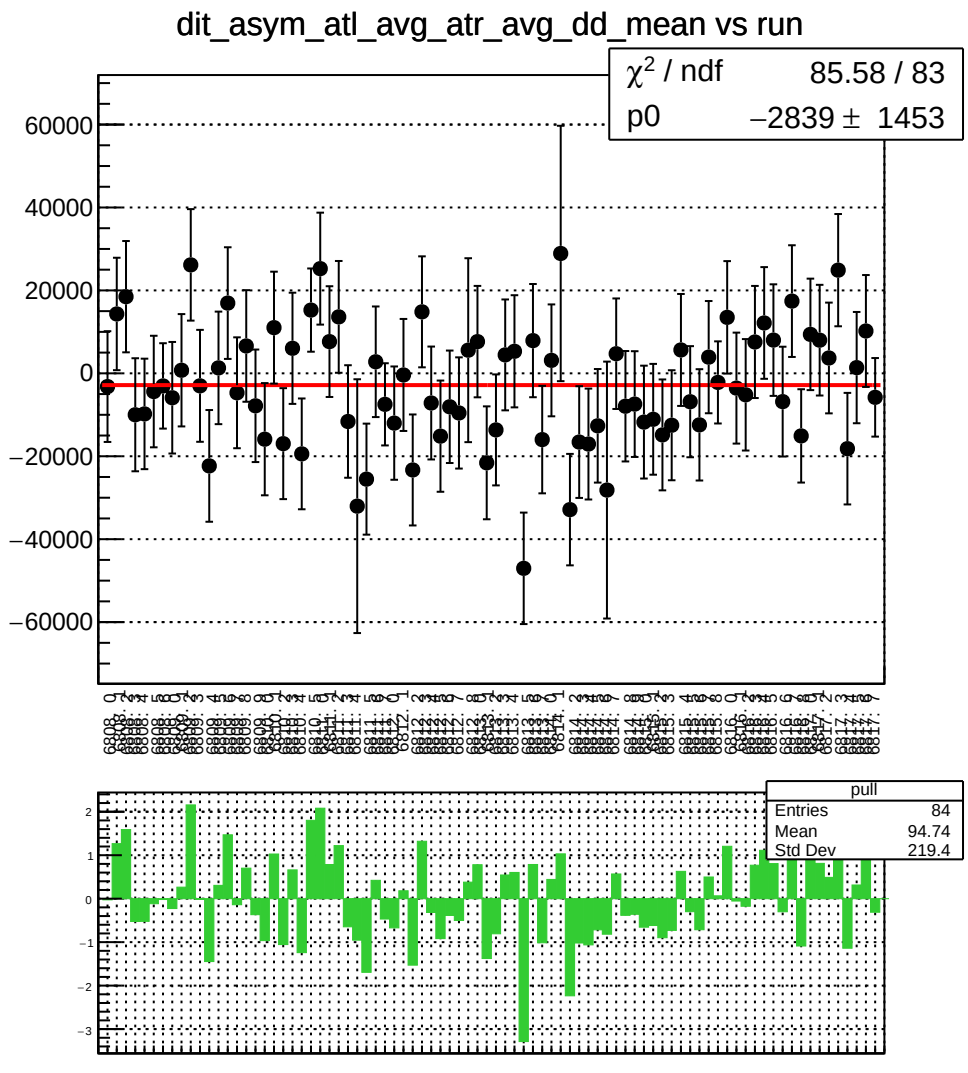

pull1D
Entries 84
Mean 0.004402
Std Dev 0.9945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

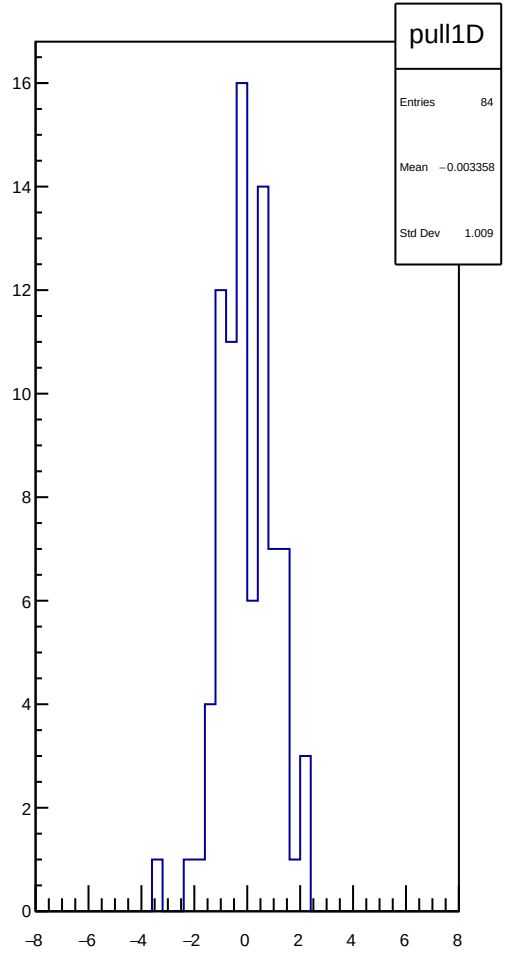

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 3020 / 83
p0 3868 ± 3.055
4300
4200
4100
4000
3900
3800
3700
3600
3500

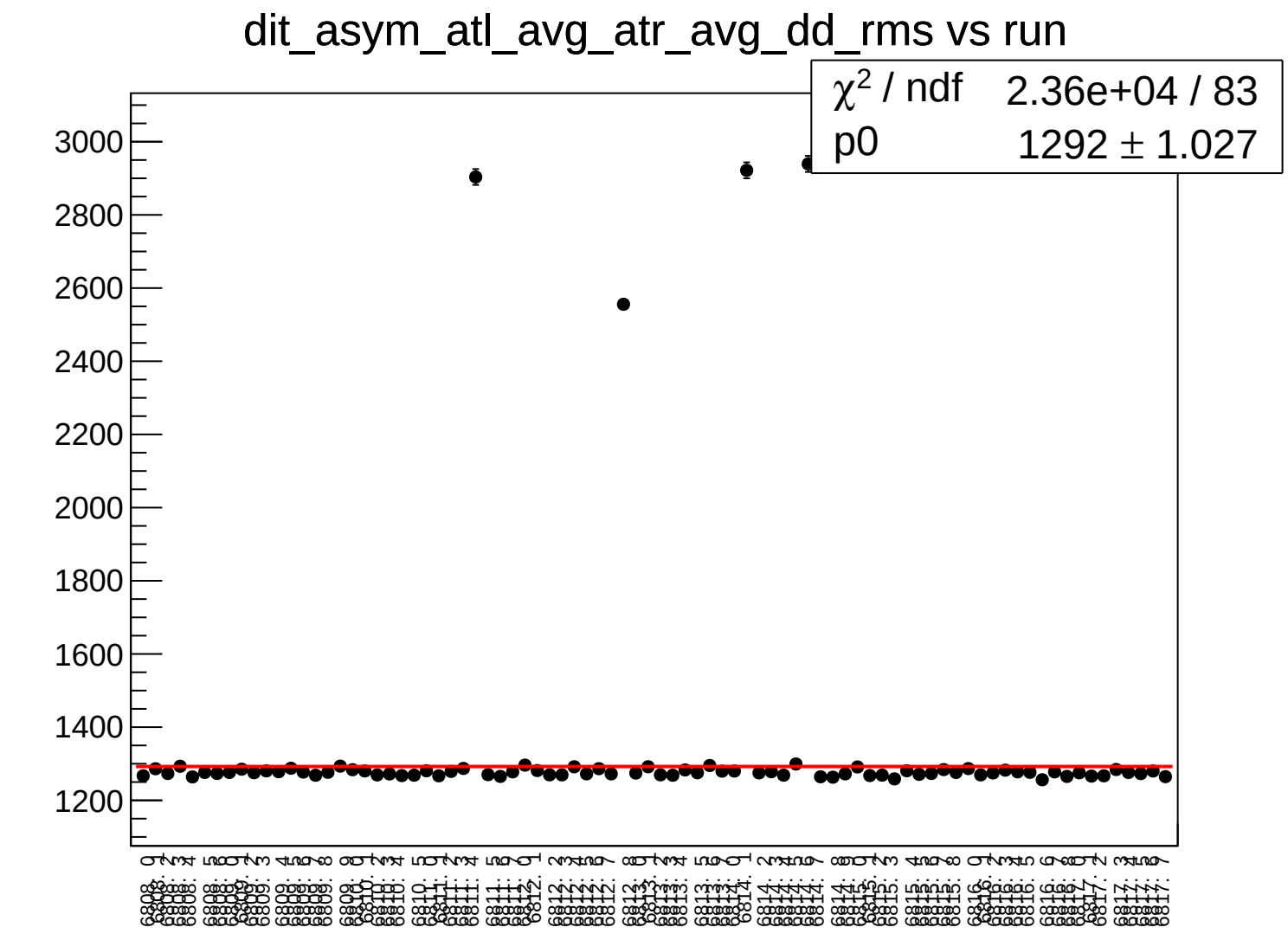

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 94.85 / 83
p0 −4164 ± 4640
150
100
50
0
−50
−100
−150
pull
Entries 84
Mean −6.626
Std Dev 94.37
2
1
0
−1
−2

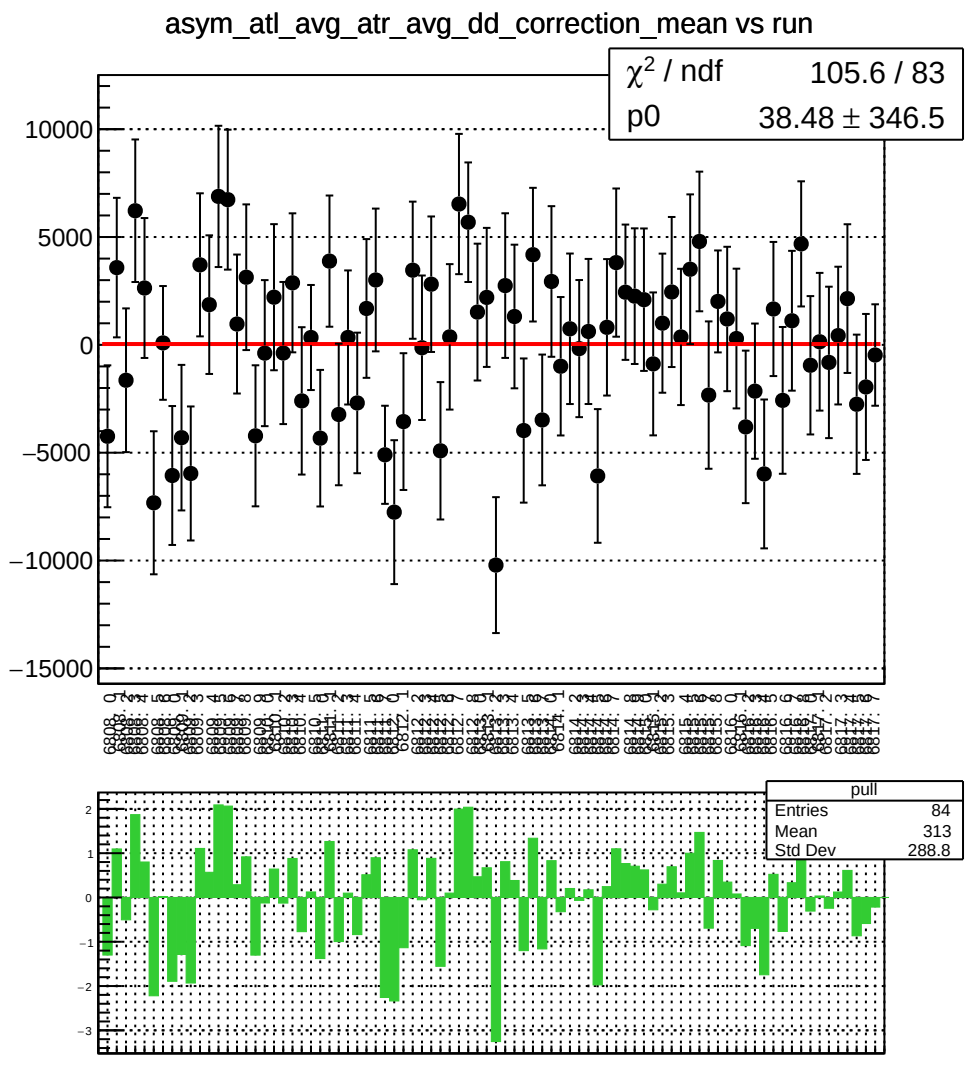

pull1D
Entries 84
Mean −0.01962
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

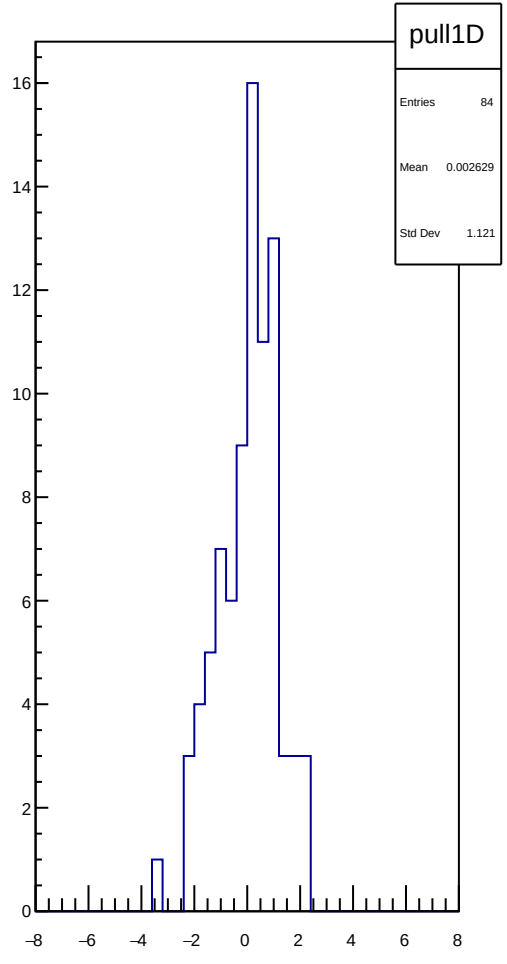

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3997 / 83
p0 4153 ± 3.281
5000
4800
4600
4400
4200
4000
3800

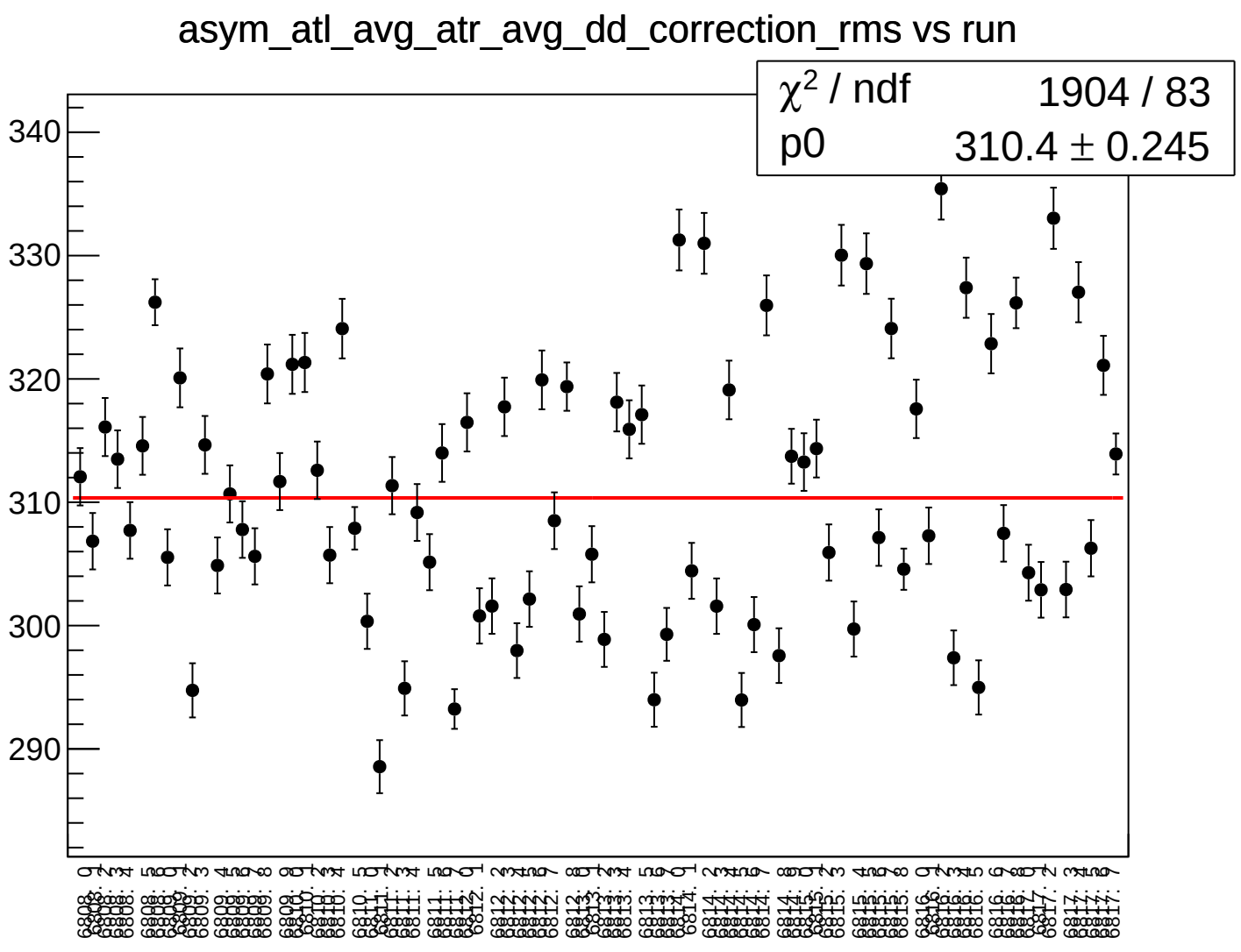

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 85.58 / 83
p0 −2839 ± 1453
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 94.74
Std Dev 219.4
2
1
0
−1
−2
−3

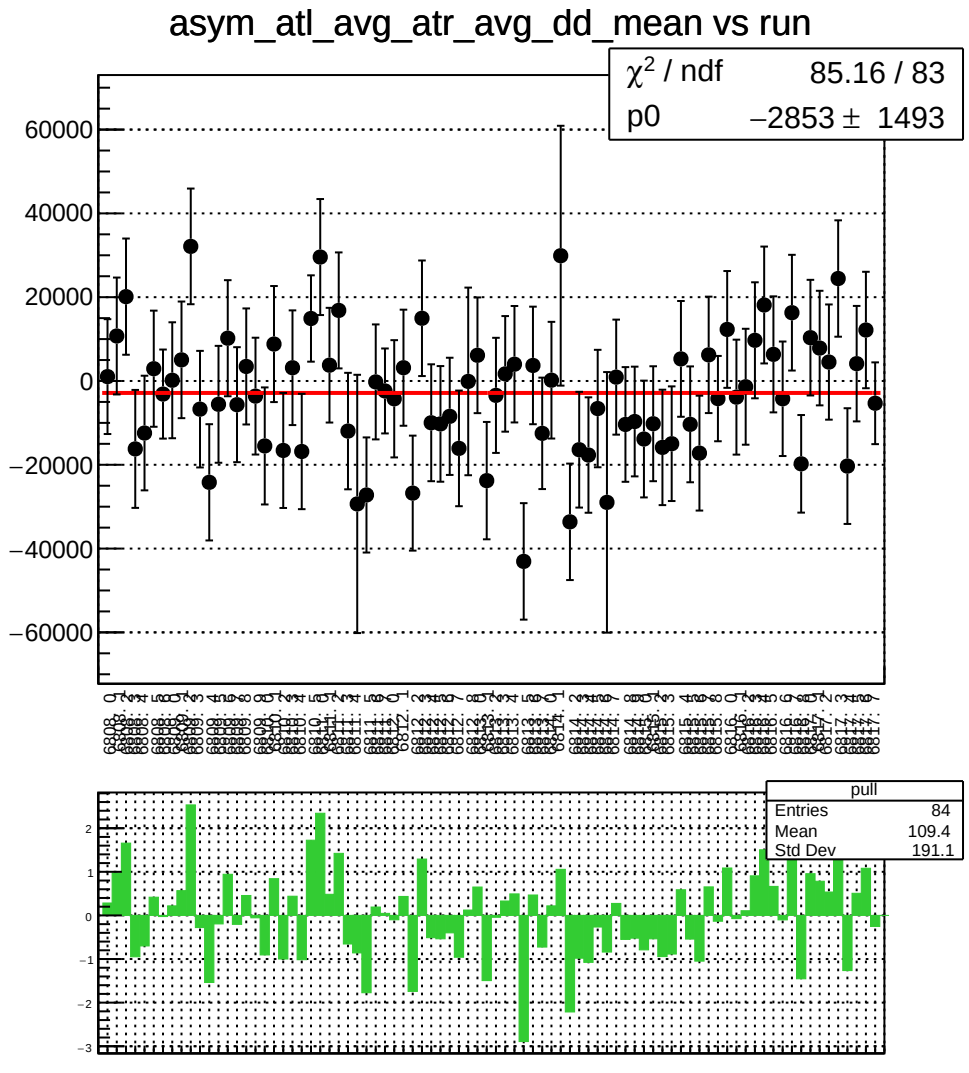

pull1D
Entries 84
Mean −0.003358
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

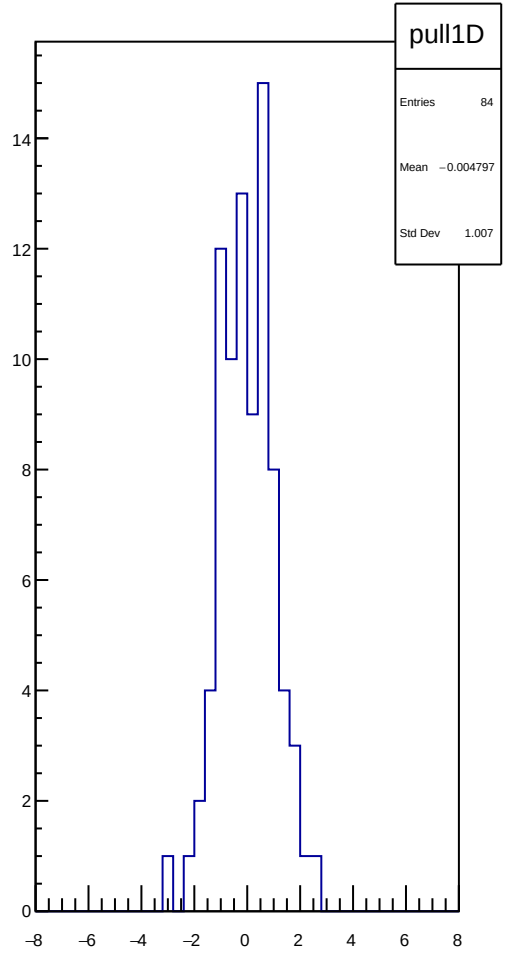

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2.36e+04 / 83
p0 1292 ± 1.027
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

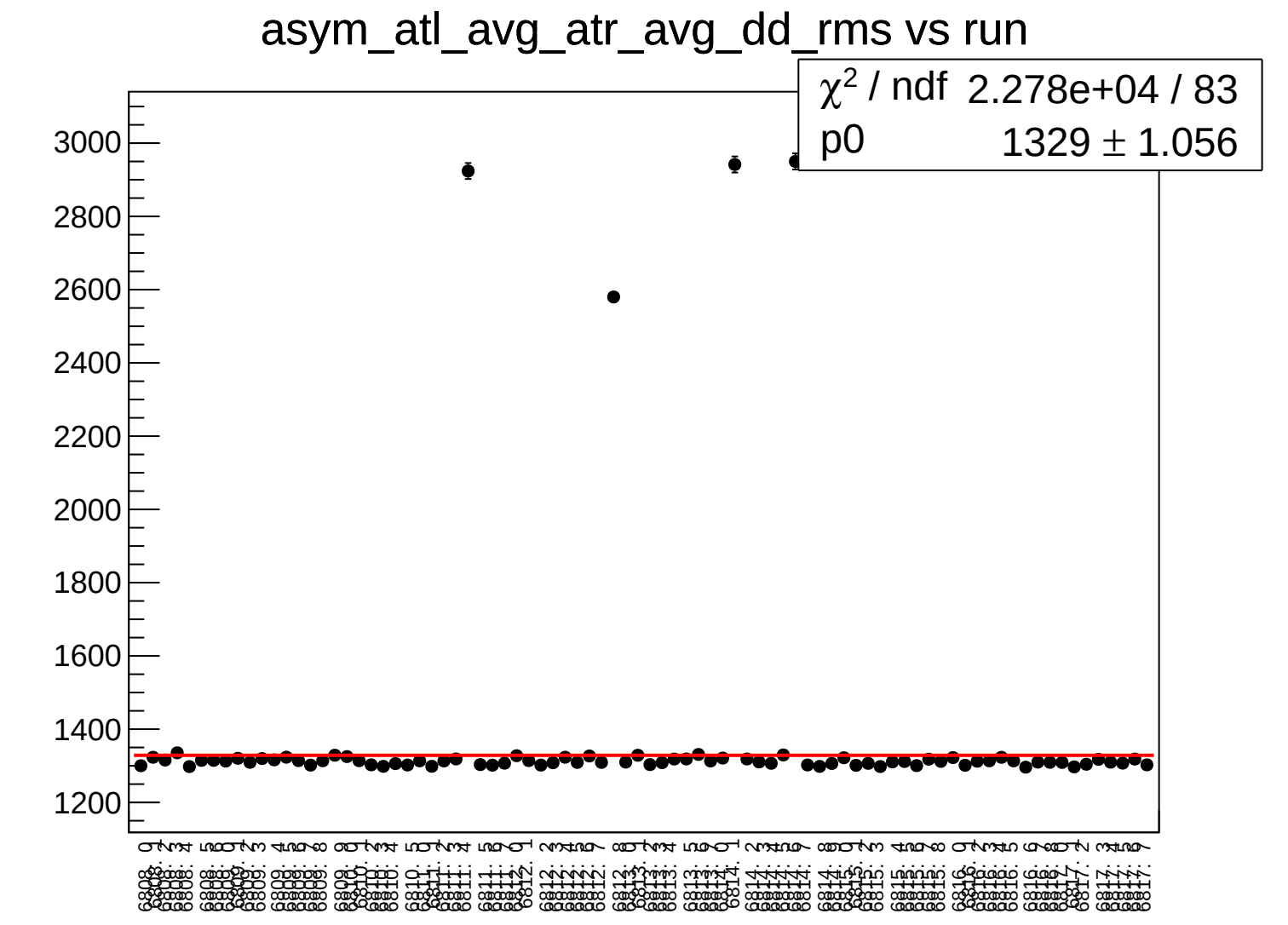

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 105.6 / 83
p0 38.48 ± 346.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 313
Std Dev 288.8
2
1
0
−1
−2
−3

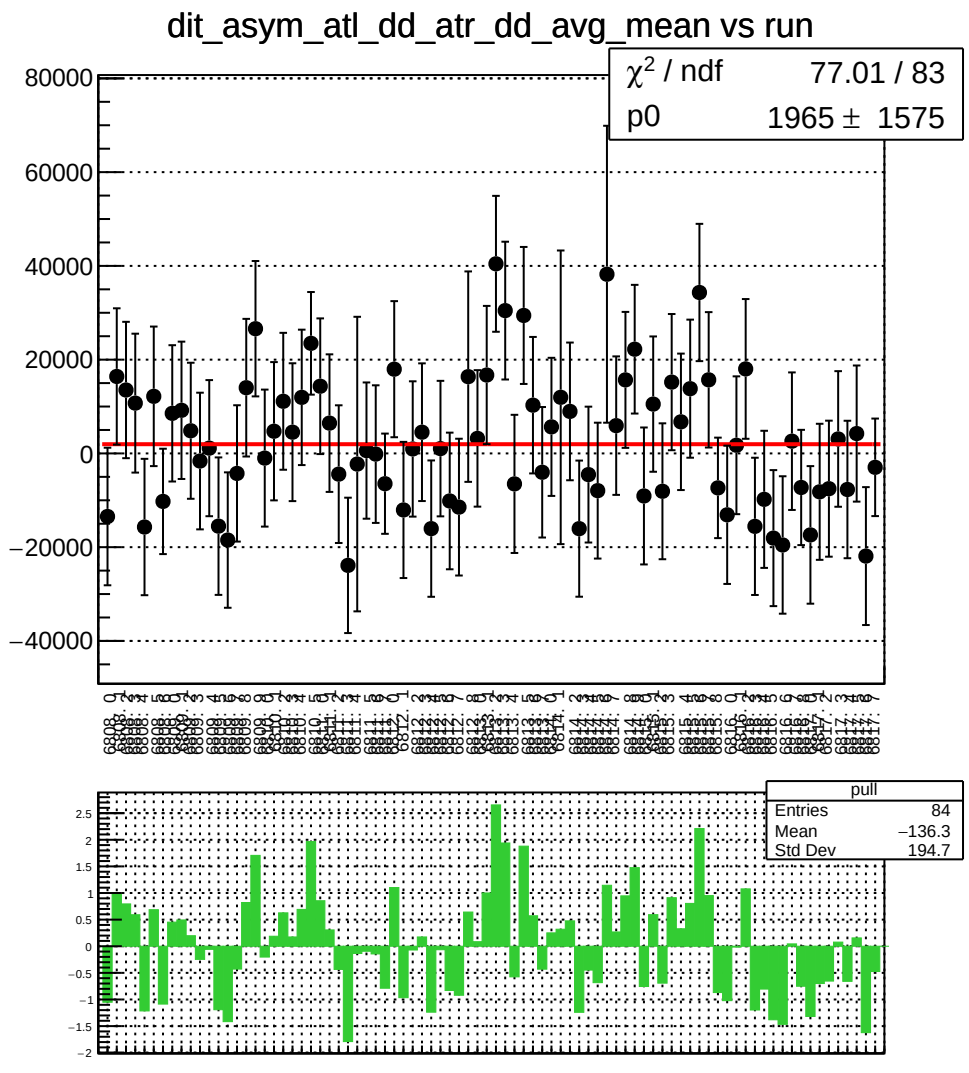

pull1D
Entries 84
Mean 0.002629
Std Dev 1.121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

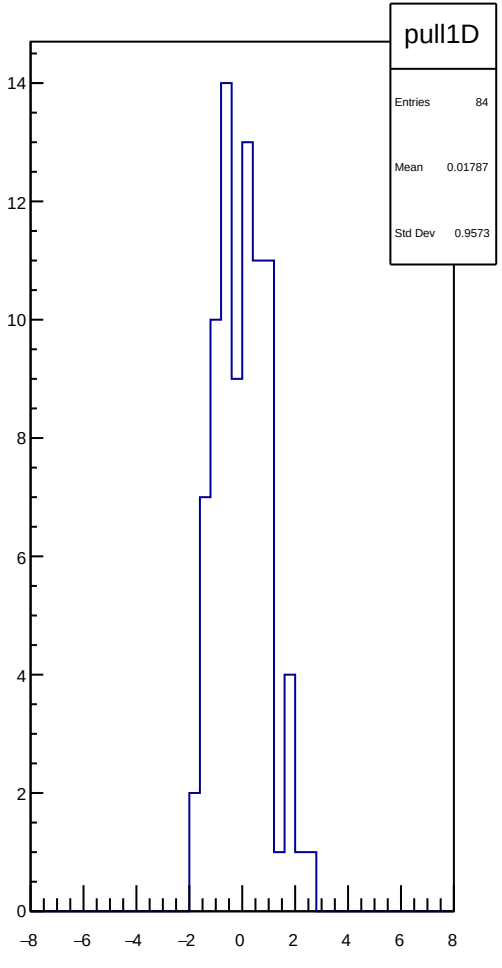

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ^2 / ndf 1904 / 83
p0 310.4 ± 0.245
340
330
320
310
300
290

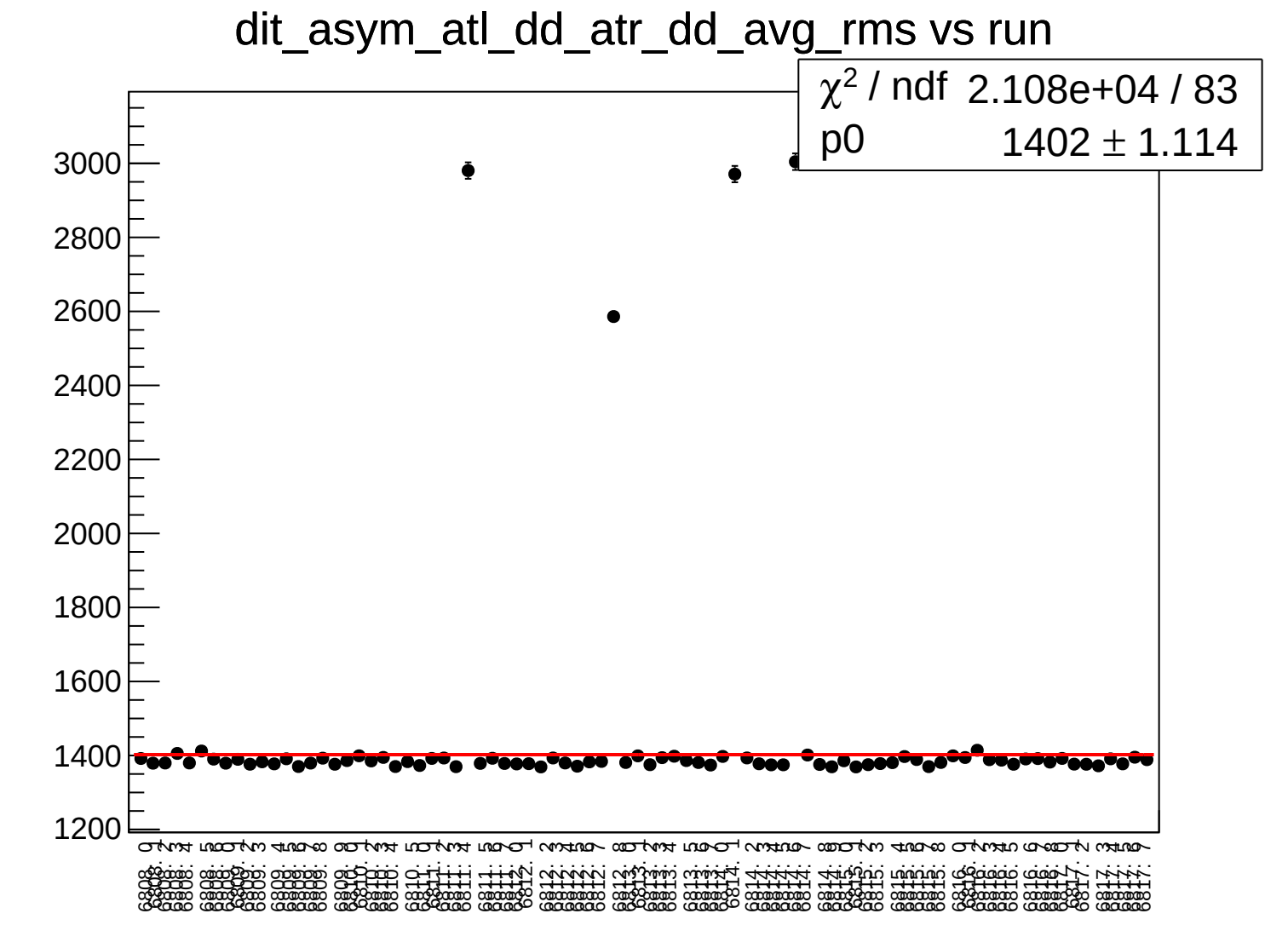

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 85.16 / 83
p0 −2853 ± 1493
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 84
Mean 109.4
Std Dev 191.1
2
1
0
−1
−2
−3

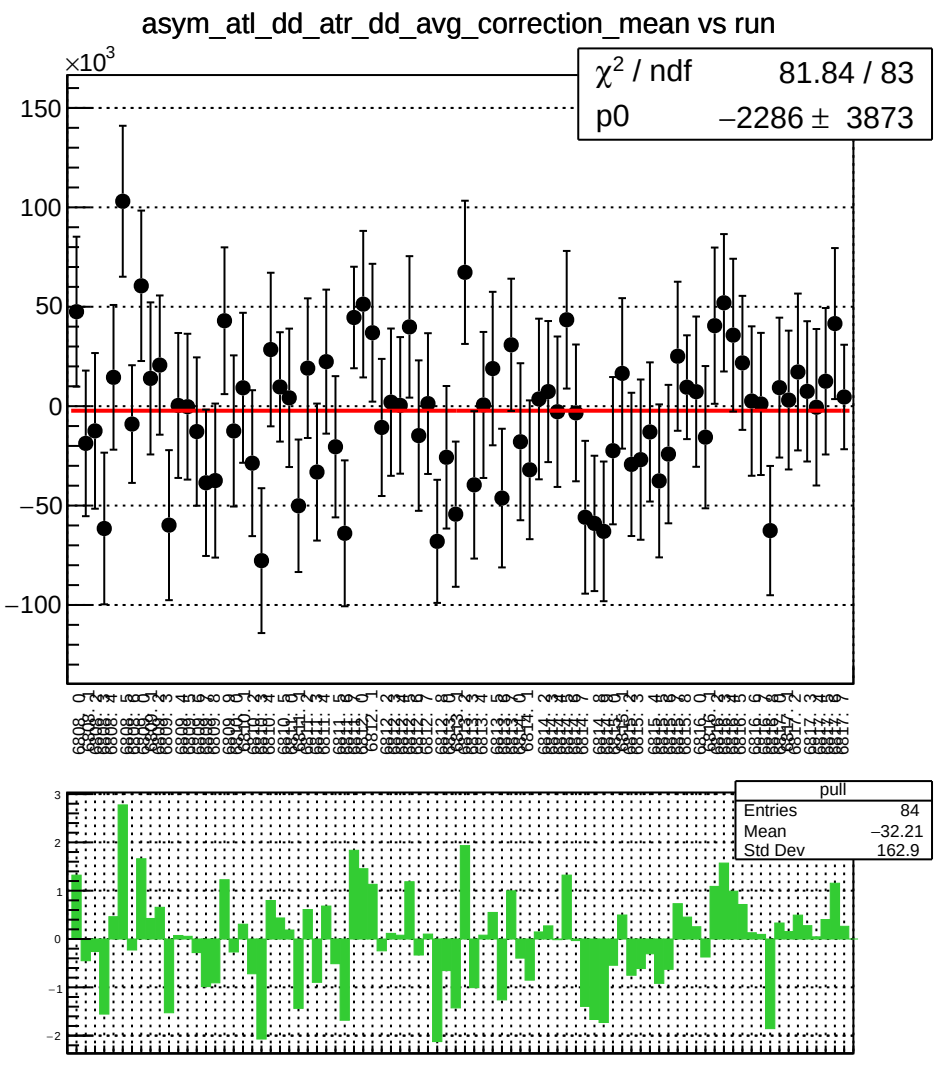

pull1D
Entries 84
Mean −0.004797
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

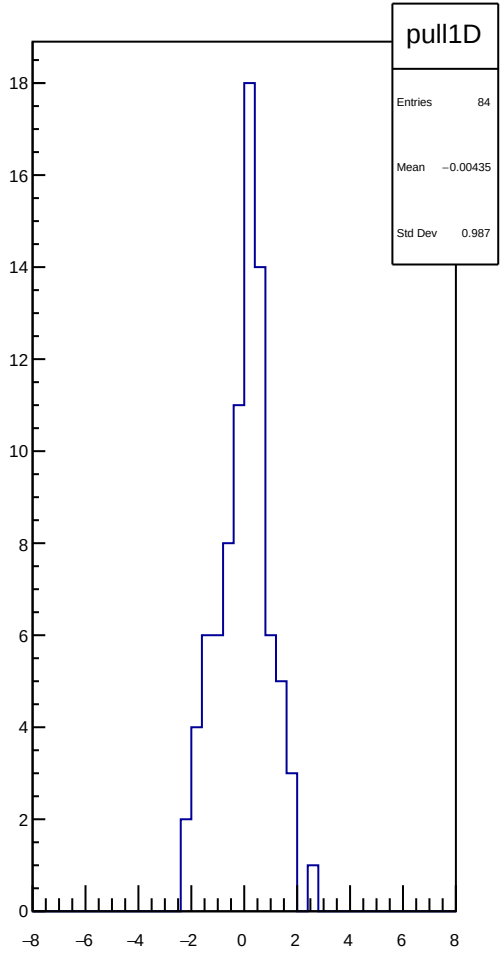

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2.278e+04 / 83
p0 1329 ± 1.056
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

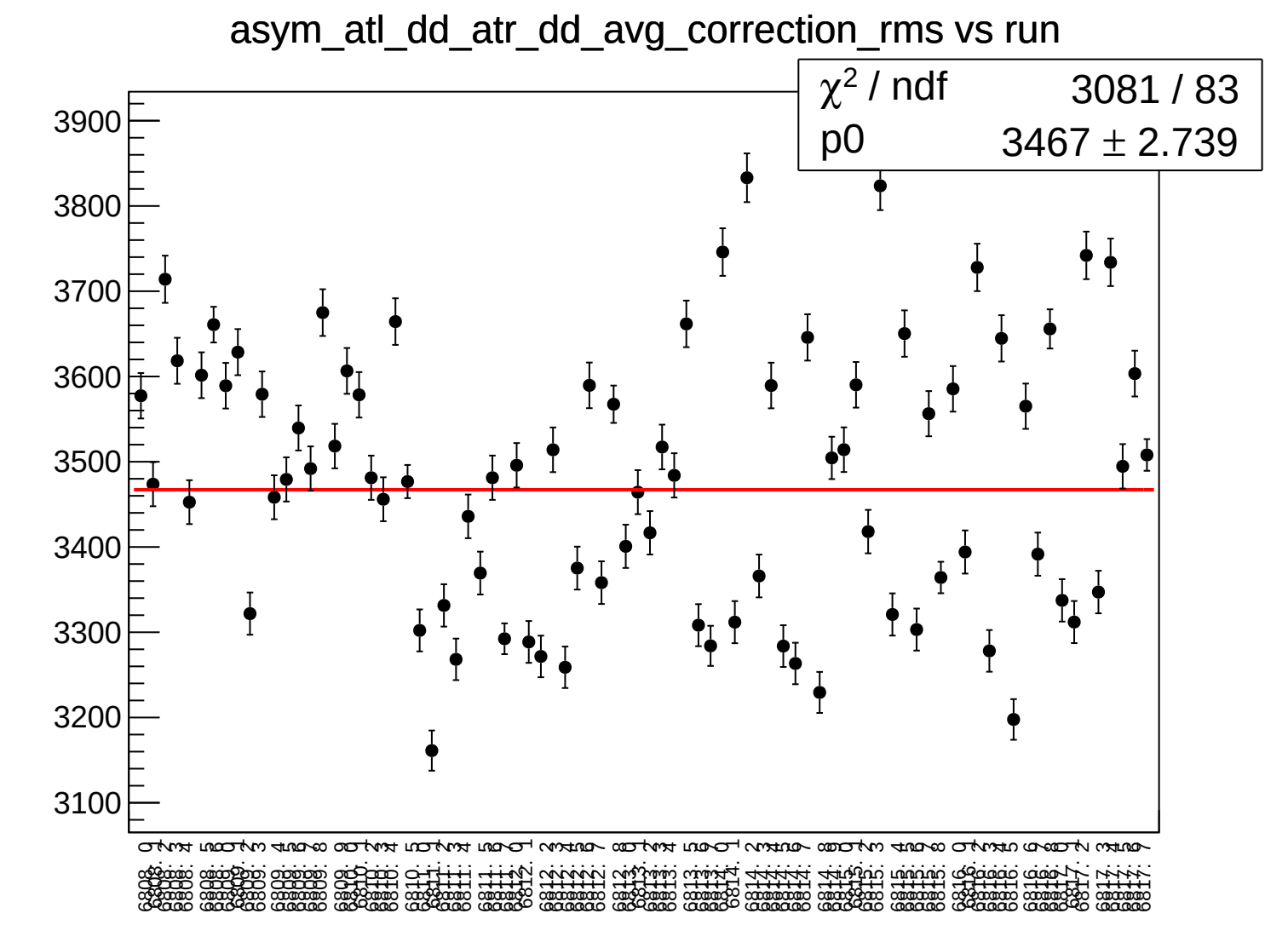

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 77.01 / 83
p0 1965 ± 1575
pull
Entries 84
Mean −136.3
Std Dev 194.7

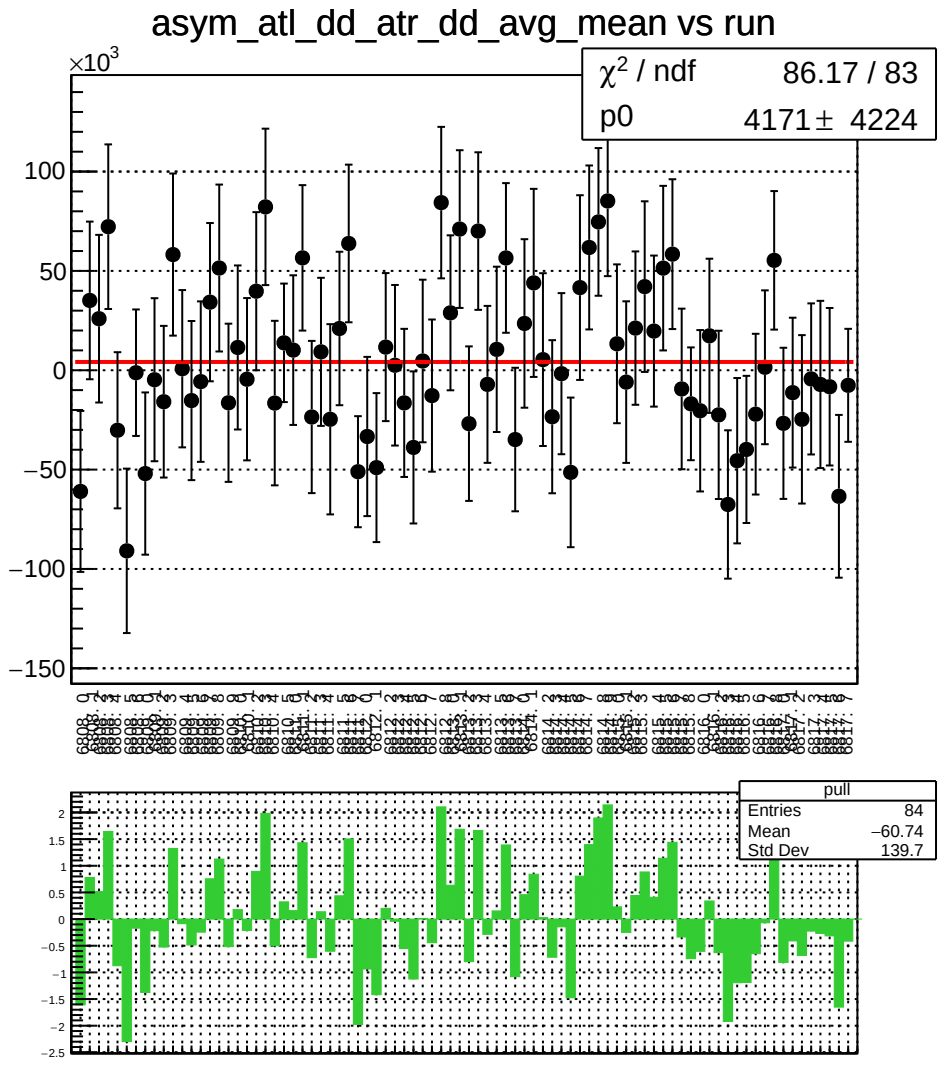

pull1D
Entries 84
Mean 0.01787
Std Dev 0.9573

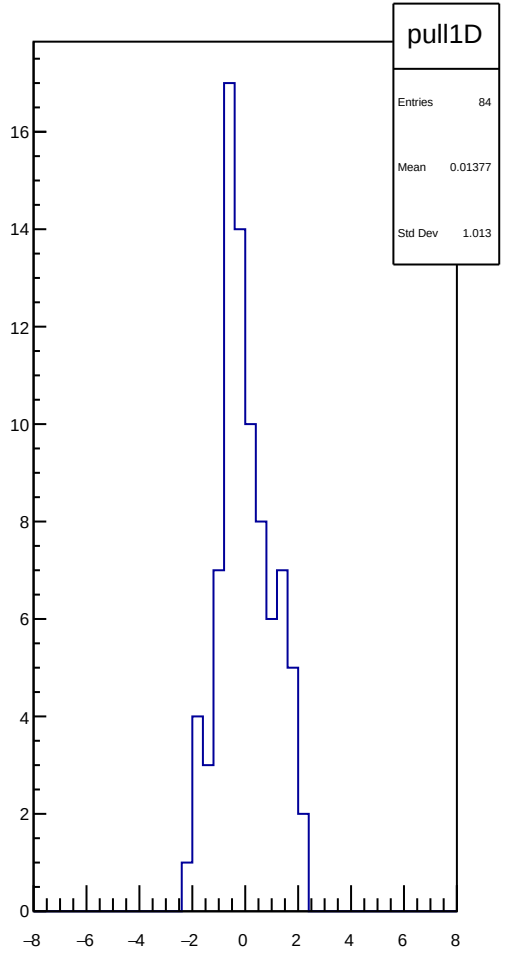

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2.108e+04 / 83
p0 1402 ± 1.114
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

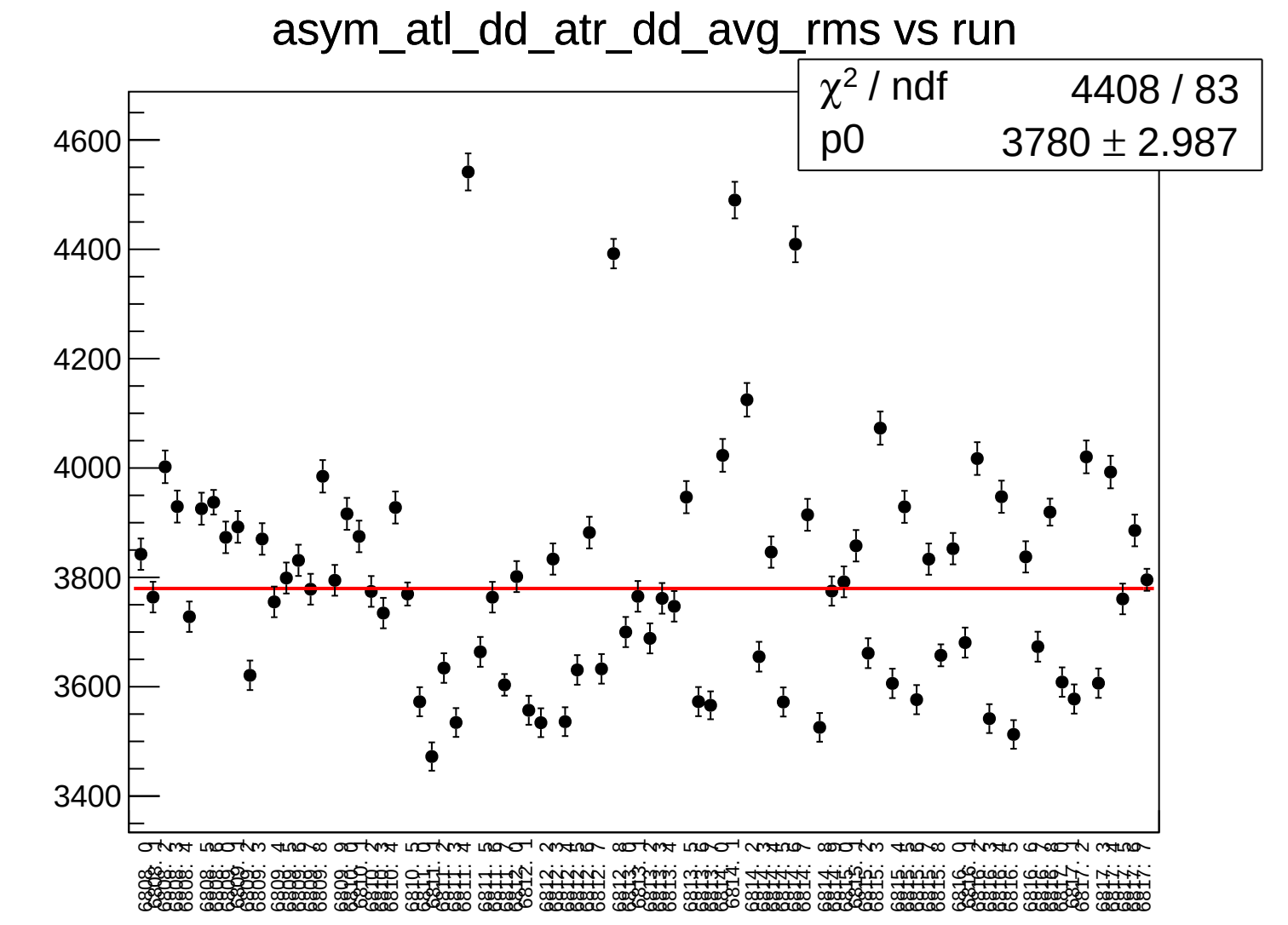

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 81.84 / 83
p0 −2286 ± 3873
150
100
50
0
−50
−100
pull
Entries 84
Mean −32.21
Std Dev 162.9
3
2
1
0
−1
−2

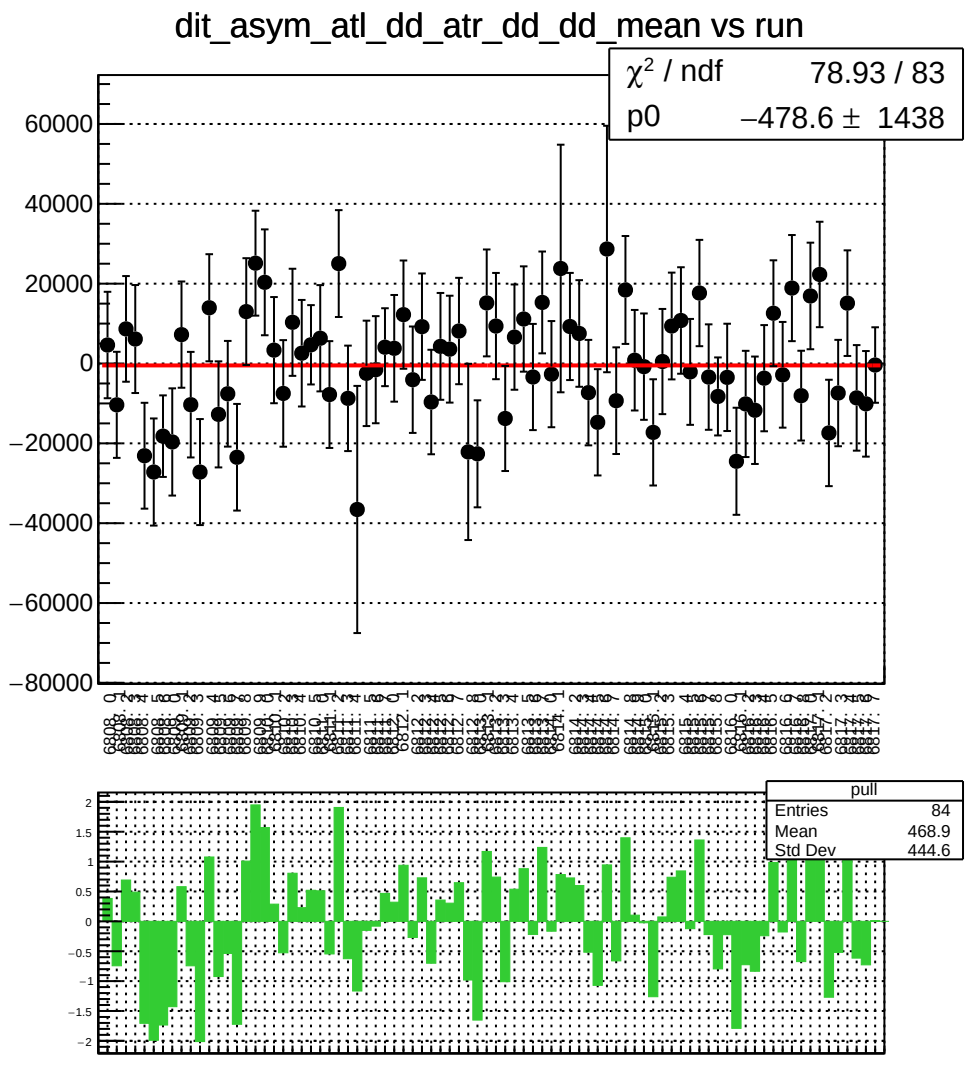

pull1D
Entries 84
Mean −0.00435
Std Dev 0.987
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

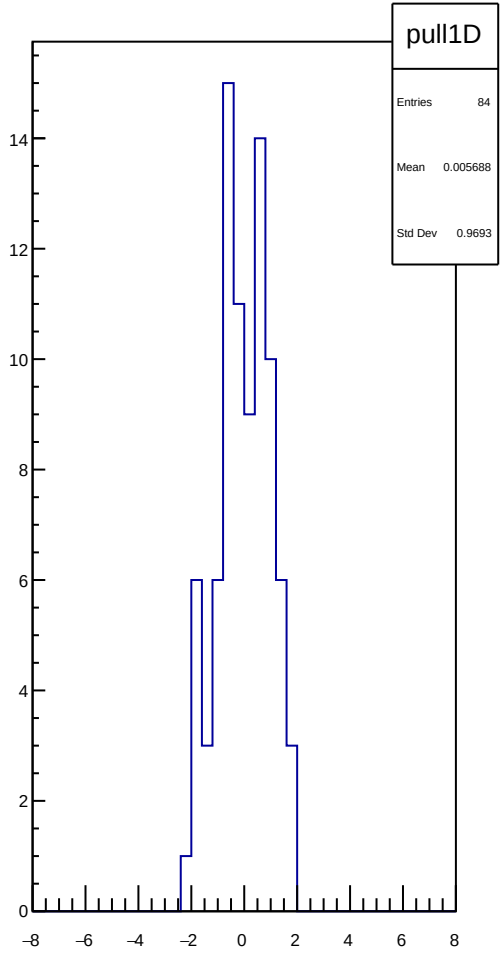

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 3081 / 83
p0 3467 ± 2.739
3900
3800
3700
3600
3500
3400
3300
3200
3100

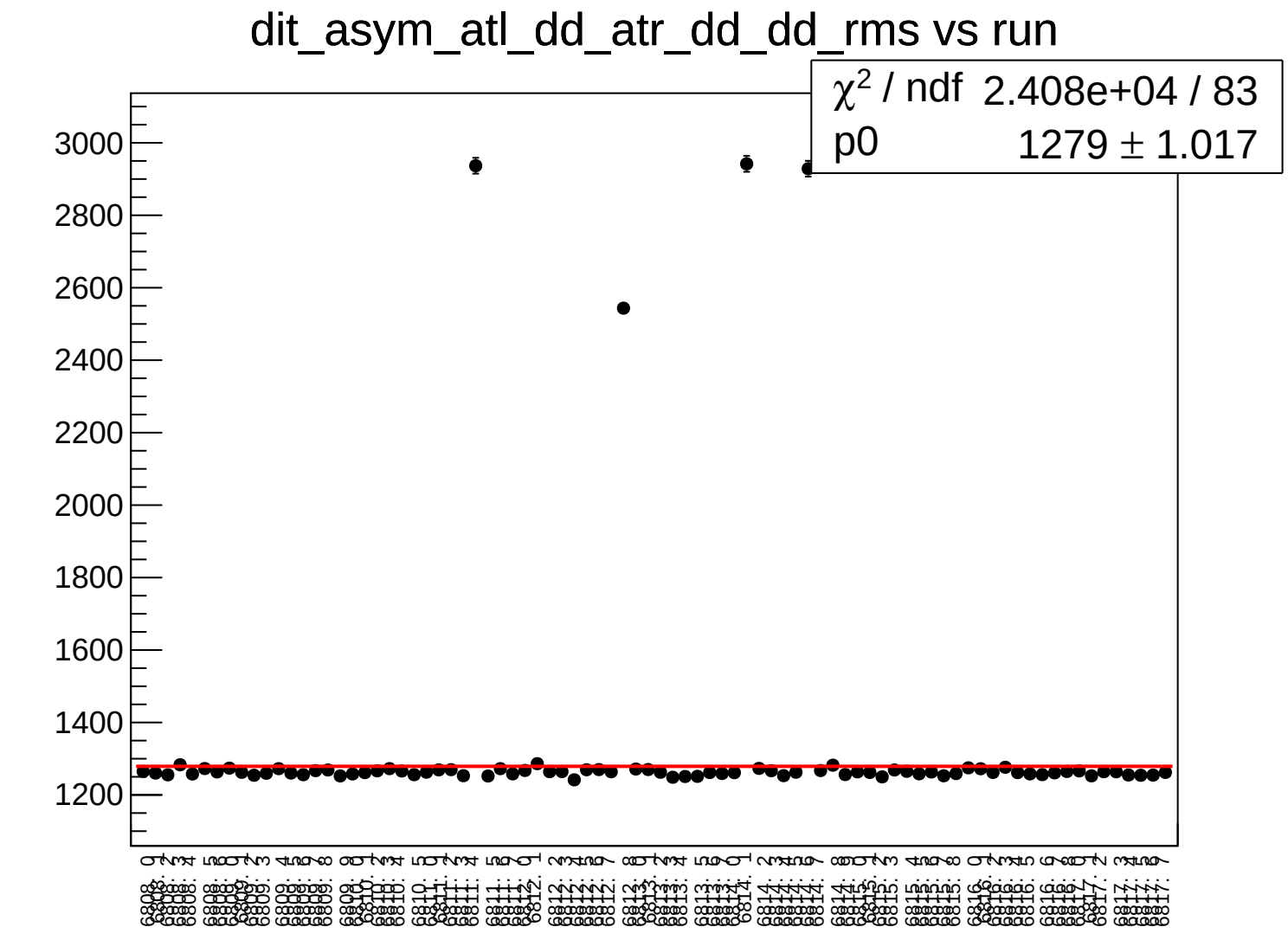

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 86.17 / 83
p0 4171 ± 4224
100
50
0
−50
−100
−150
pull
Entries 84
Mean −60.74
Std Dev 139.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

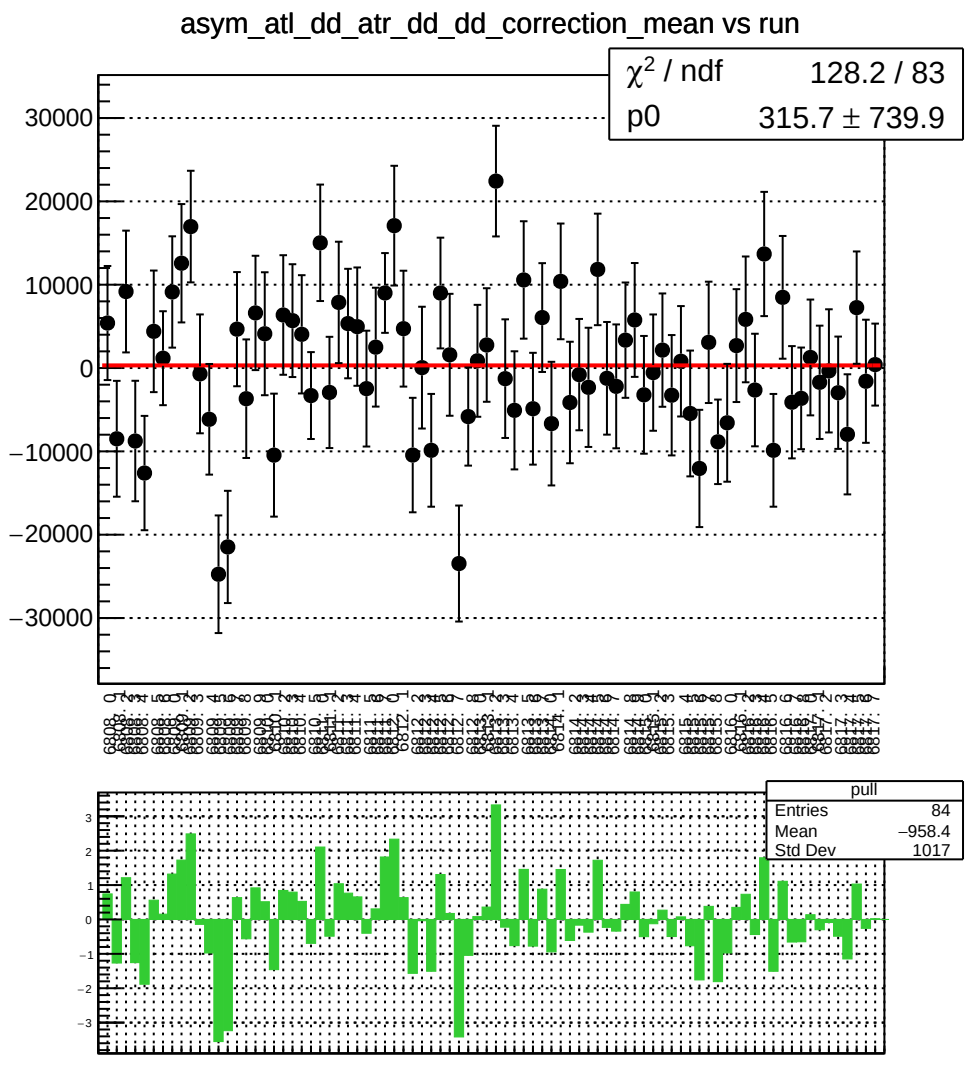

pull1D
Entries 84
Mean 0.01377
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

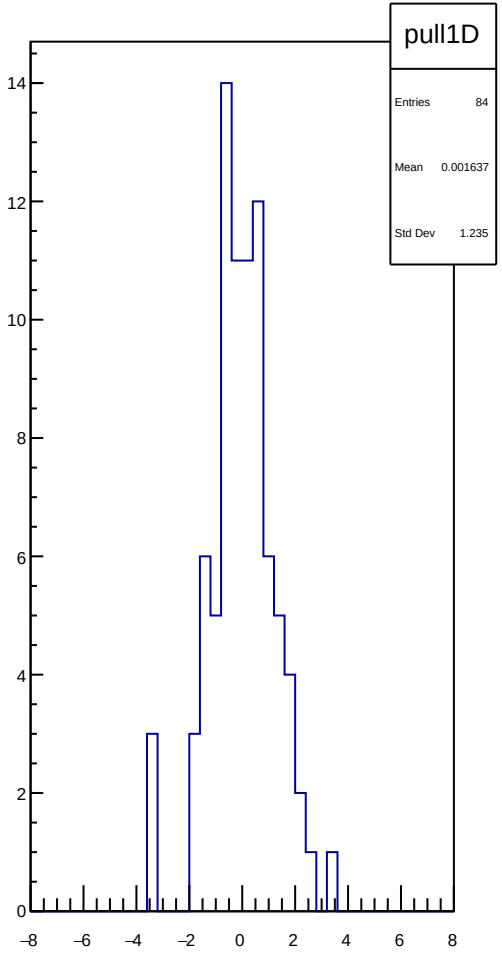

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4408 / 83
p0 3780 ± 2.987
4600
4400
4200
4000
3800
3600
3400

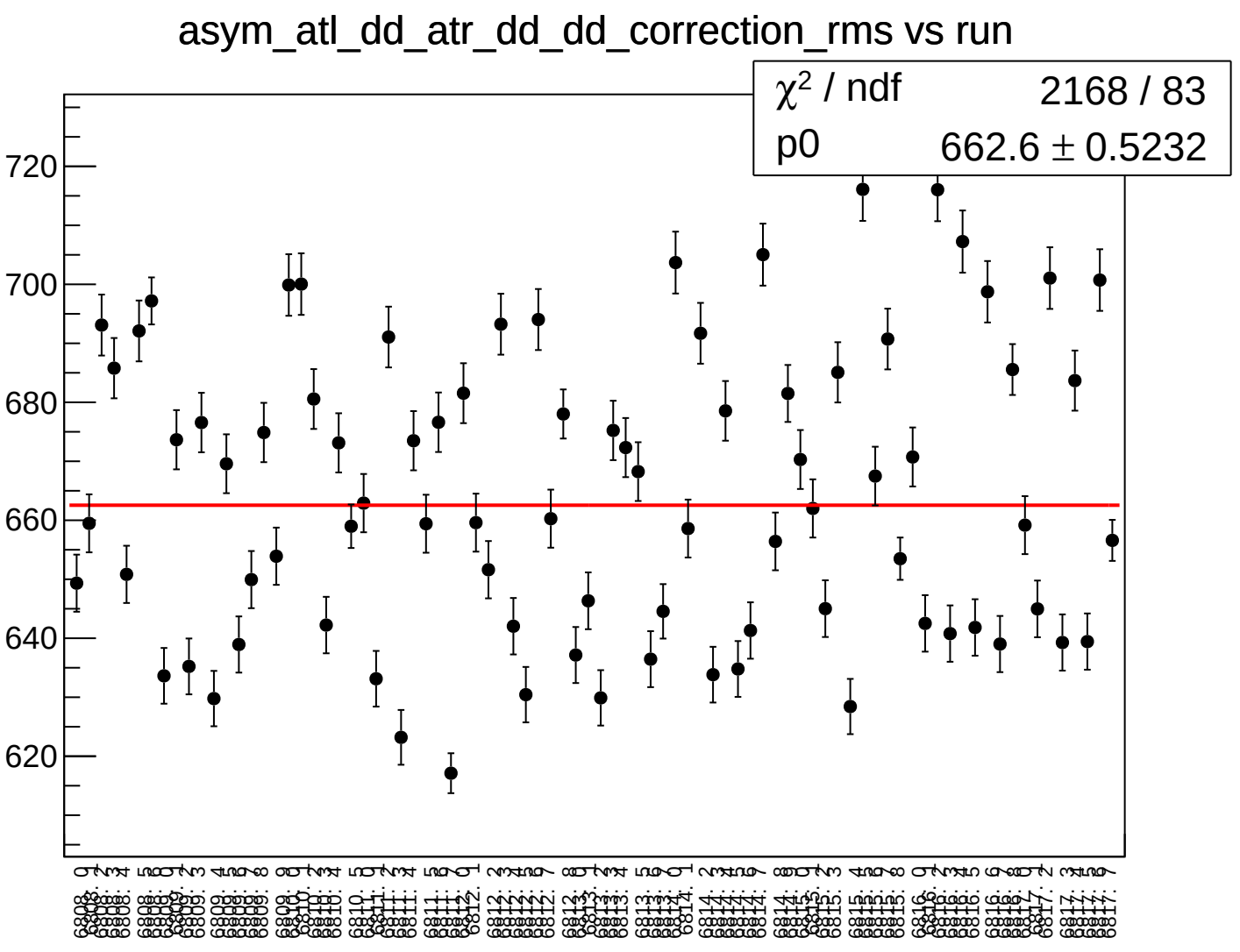

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 78.93 / 83
p0 −478.6 ± 1438
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 468.9
Std Dev 444.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

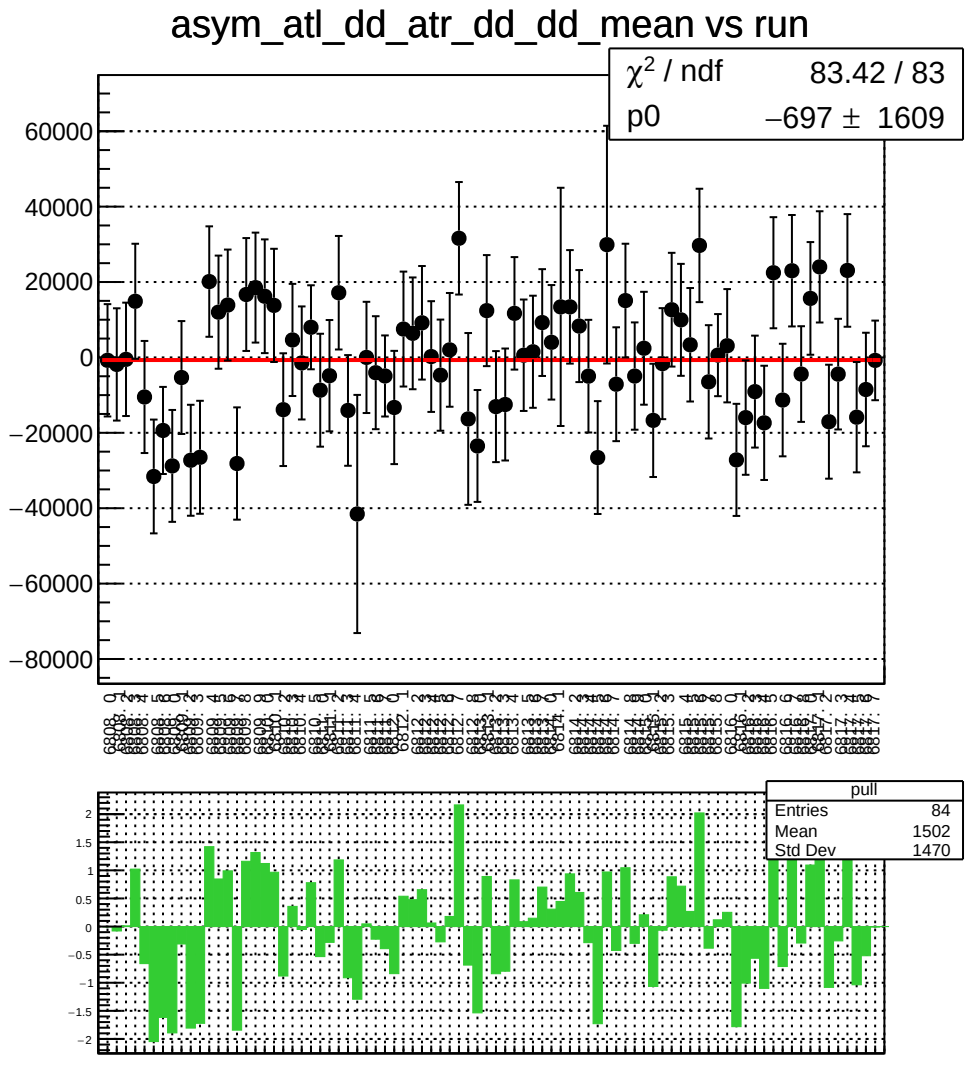

pull1D
Entries 84
Mean 0.005688
Std Dev 0.9693
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

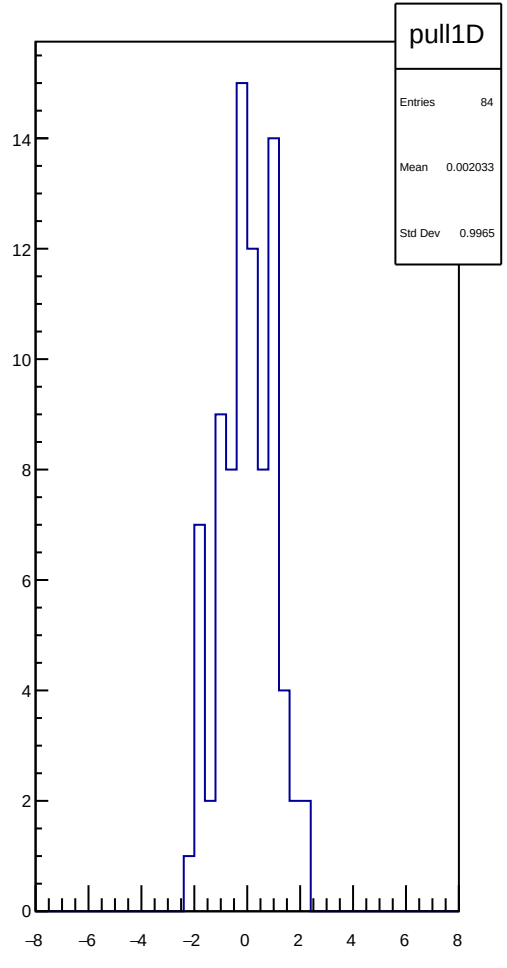

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 2.408e+04 / 83
p0 1279 ± 1.017
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

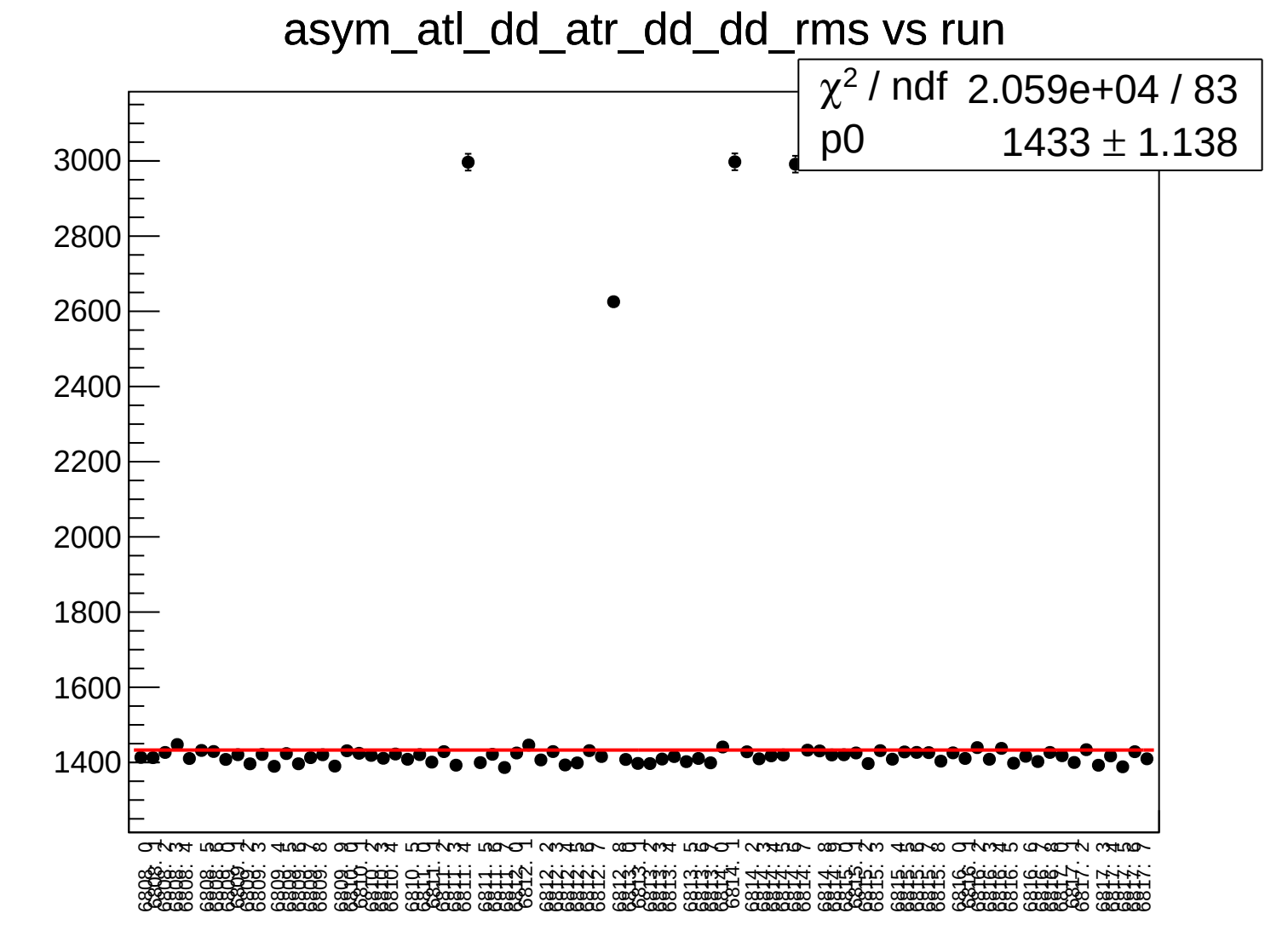

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 128.2 / 83
p0 315.7 ± 739.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −958.4
Std Dev 1017
3
2
1
0
−1
−2
−3

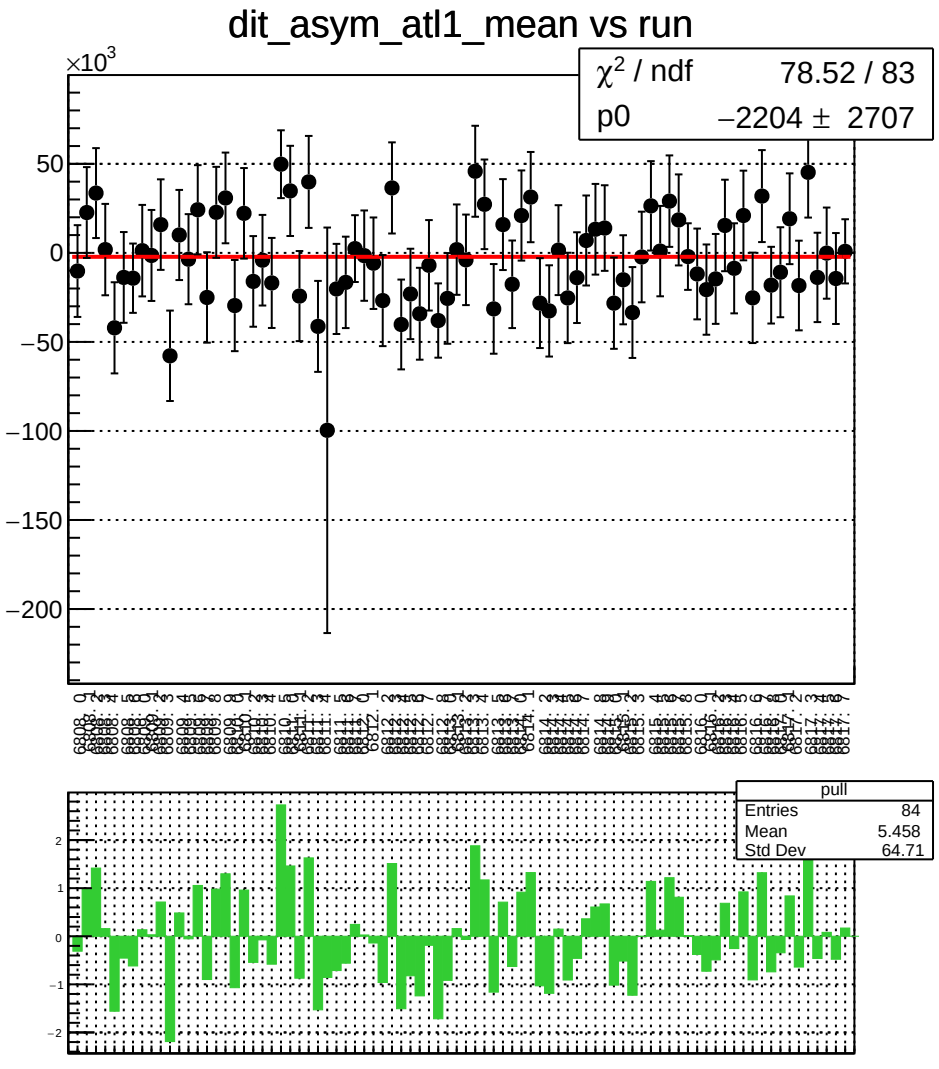

pull1D
Entries 84
Mean 0.001637
Std Dev 1.235
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

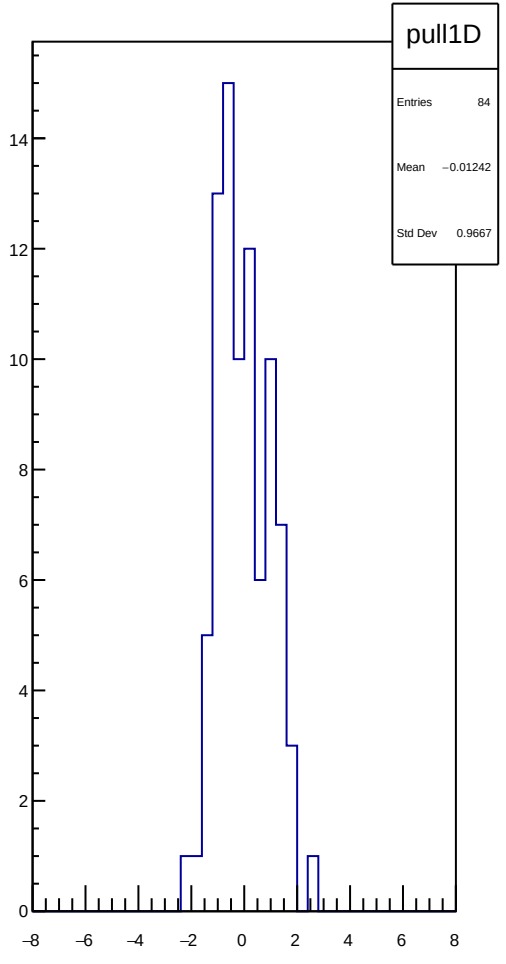

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 2168 / 83
p0 662.6 ± 0.5232
720
700
680
660
640
620

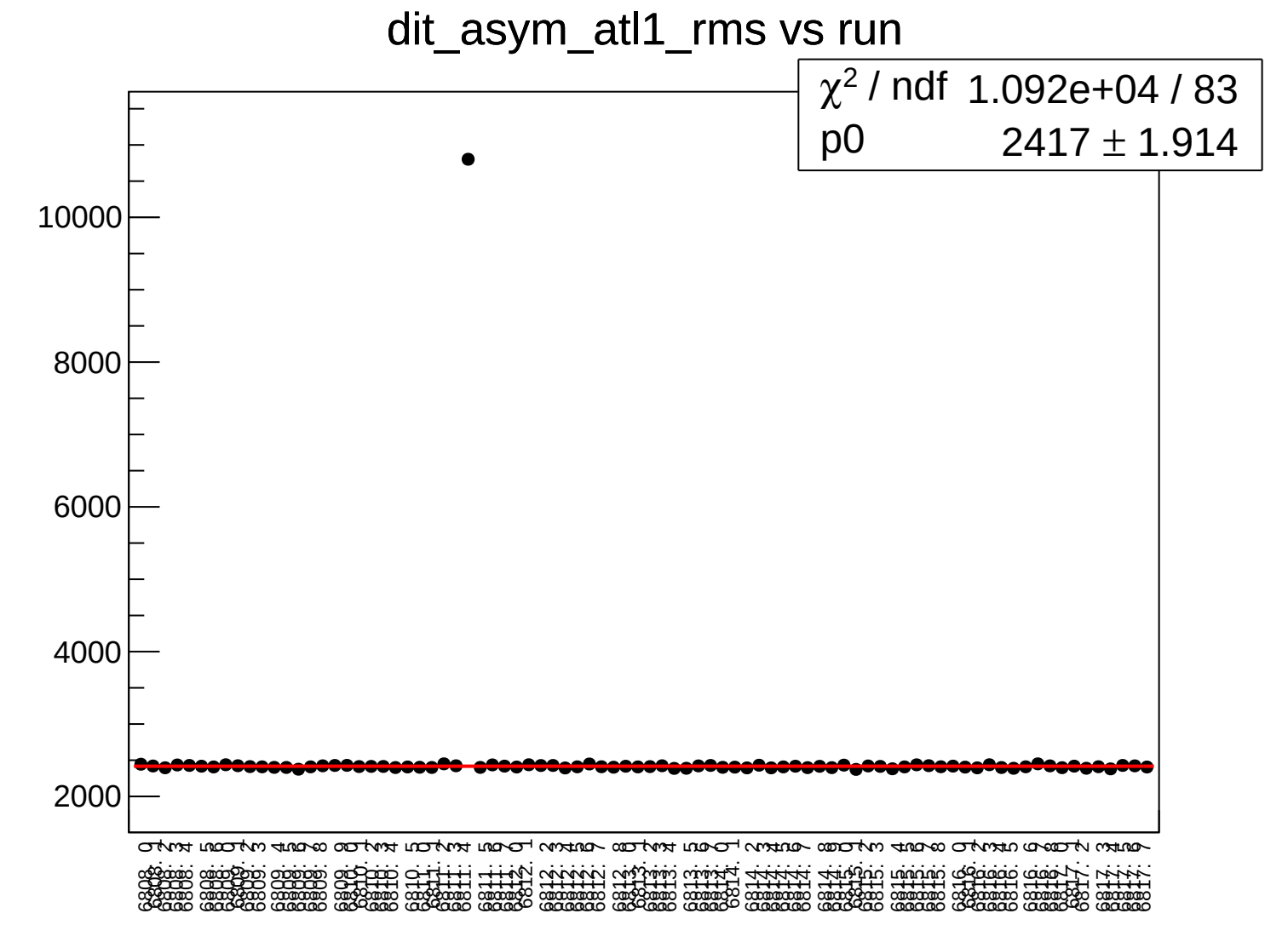

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 83.42 / 83
p0 −697 ± 1609
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean 1502
Std Dev 1470
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

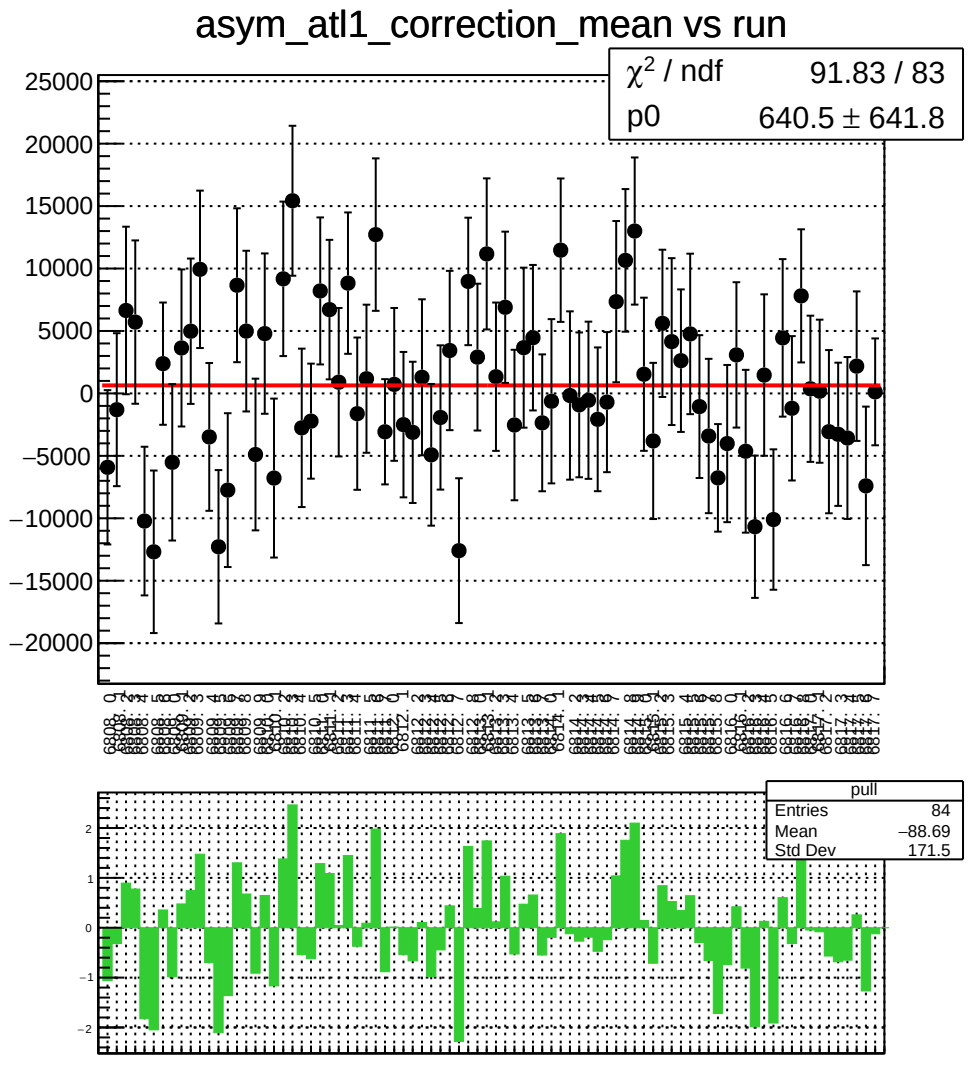

pull1D
Entries 84
Mean 0.002033
Std Dev 0.9965
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

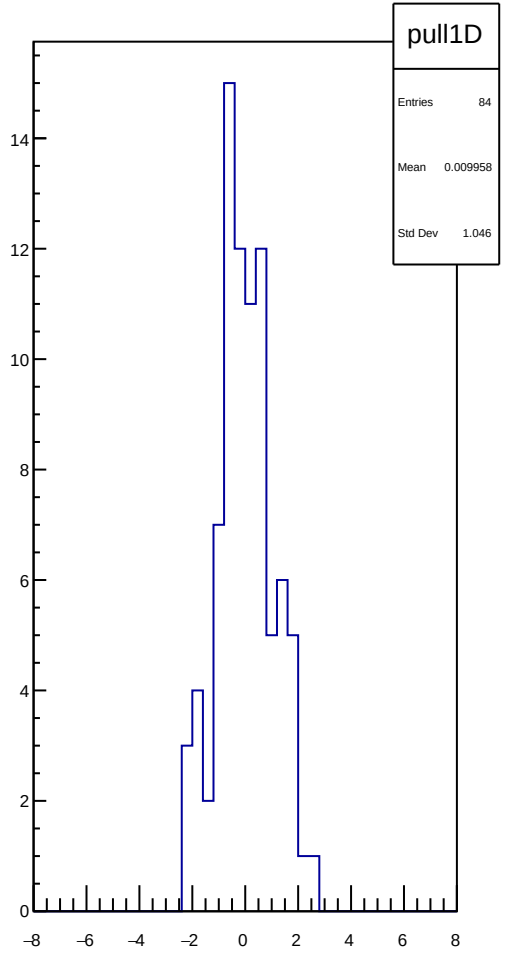

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 2.059e+04 / 83
p0 1433 ± 1.138
3000
2800
2600
2400
2200
2000
1800
1600
1400

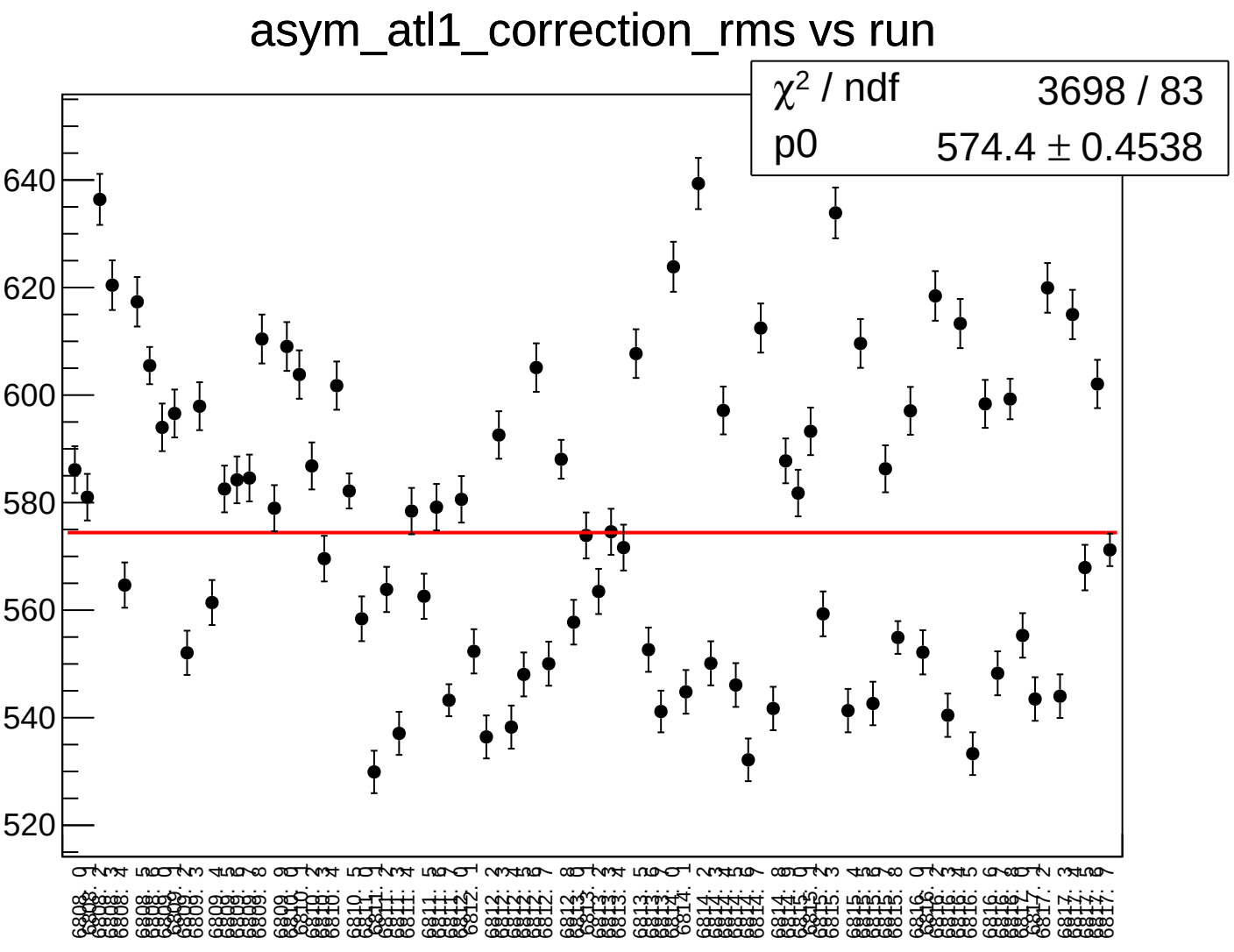

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 78.52 / 83
p0 −2204 ± 2707
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 5.458
Std Dev 64.71
2
1
0
−1
−2

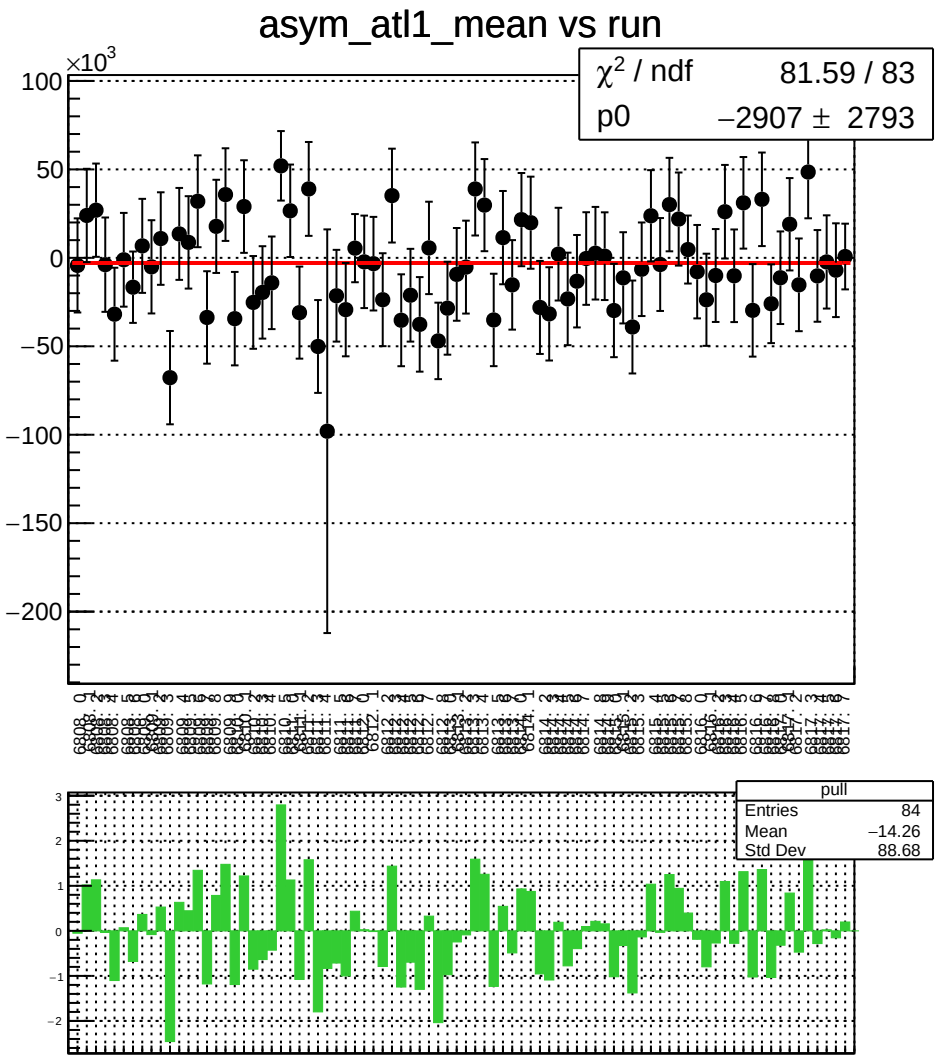

pull1D
Entries 84
Mean −0.01242
Std Dev 0.9667
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

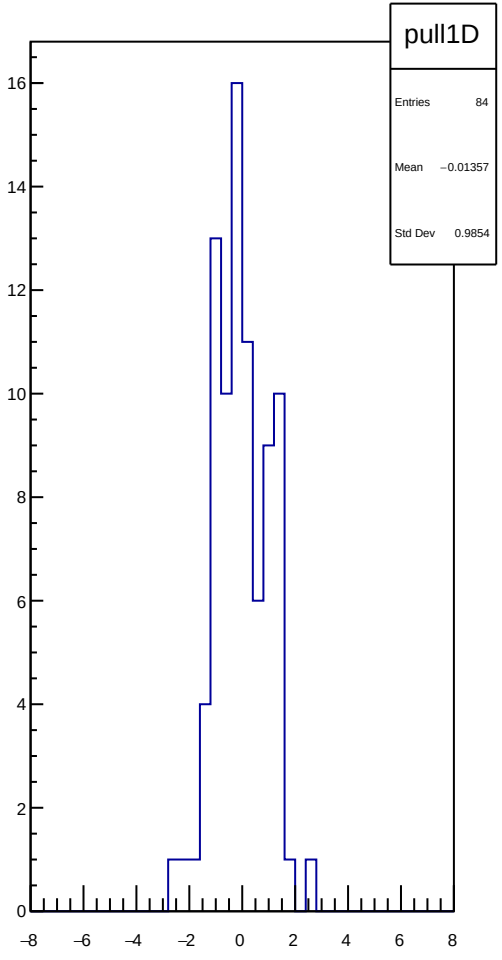

dit_asym_atl1_rms vs run
χ² / ndf 1.092e+04 / 83
p0 2417 ± 1.914
10000
8000
6000
4000
2000

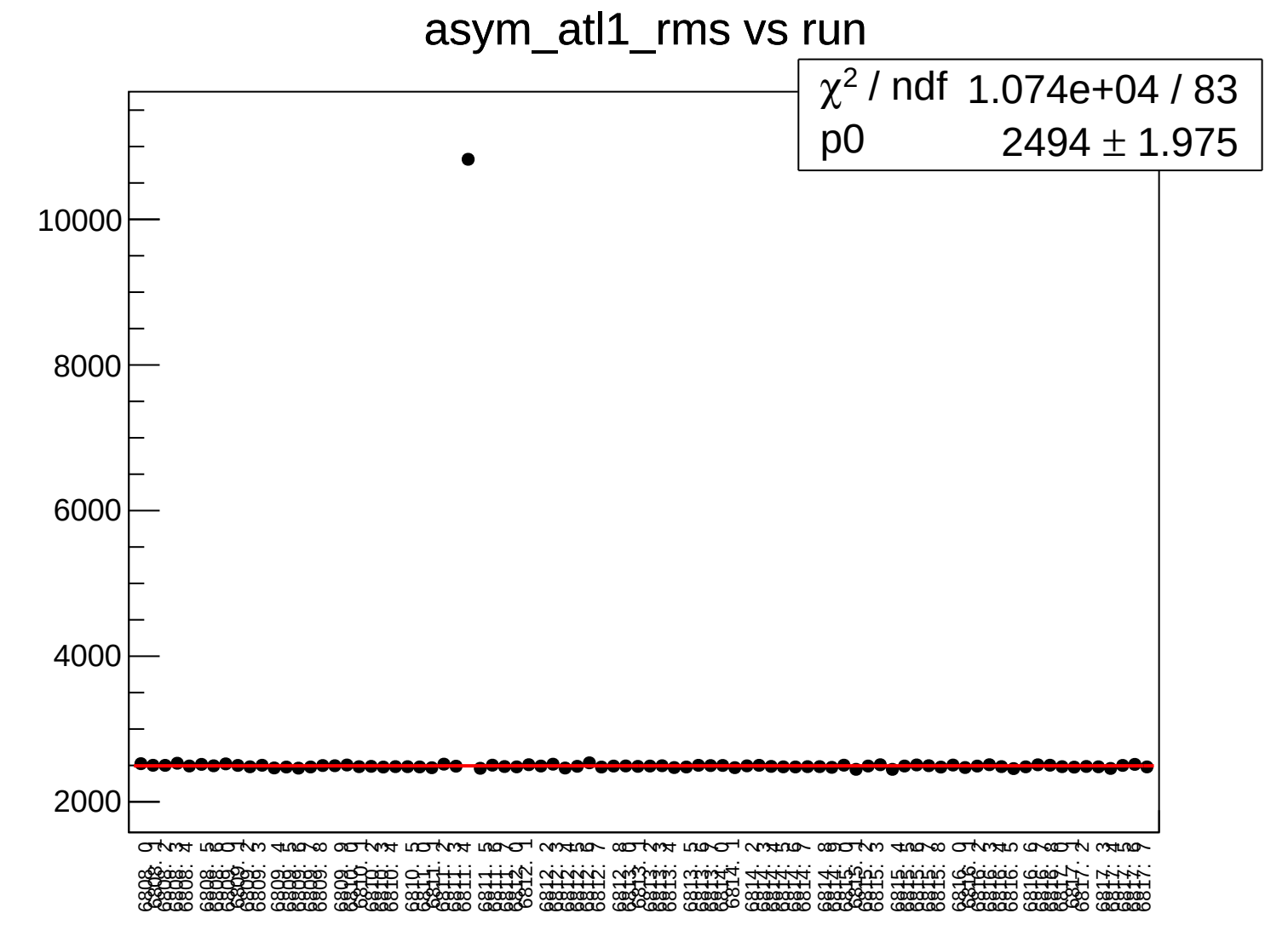

asym_atl1_correction_mean vs run
χ² / ndf 91.83 / 83
p0 640.5 ± 641.8
pull
Entries 84
Mean −88.69
Std Dev 171.5

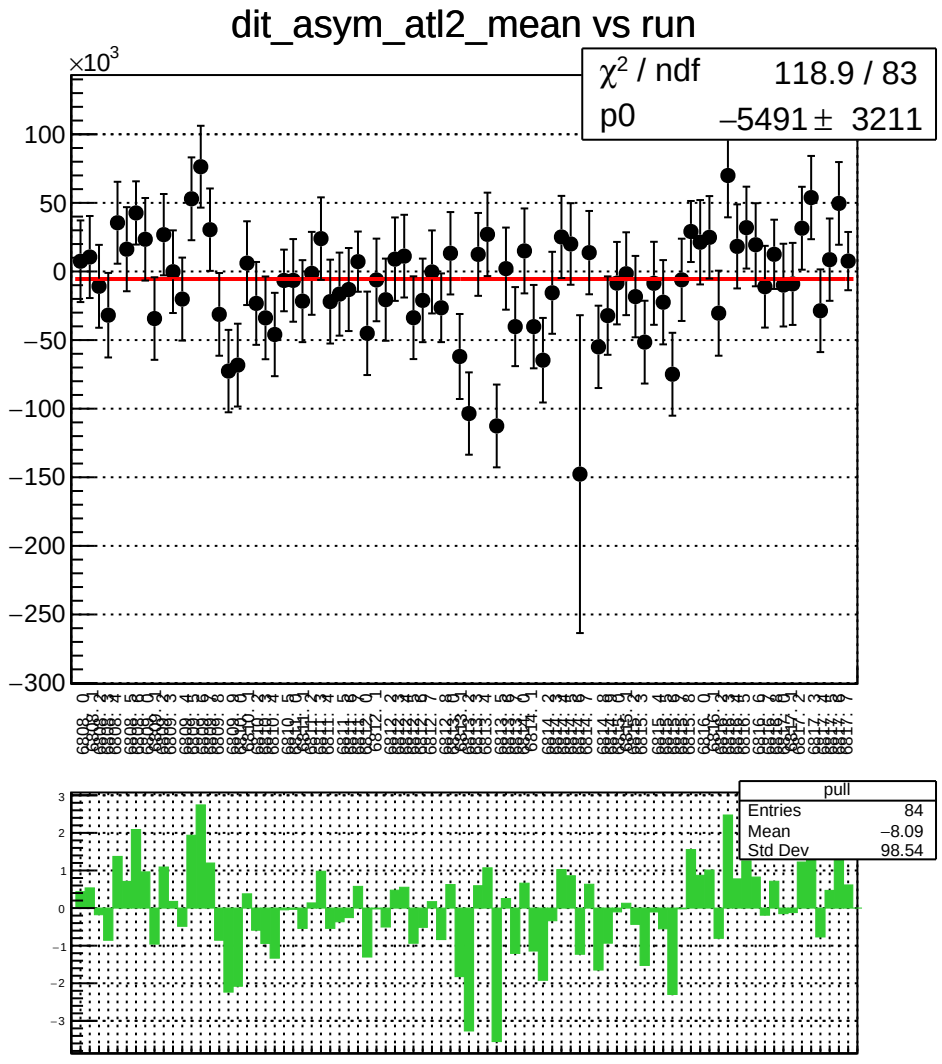

pull1D
Entries 84
Mean 0.009958
Std Dev 1.046

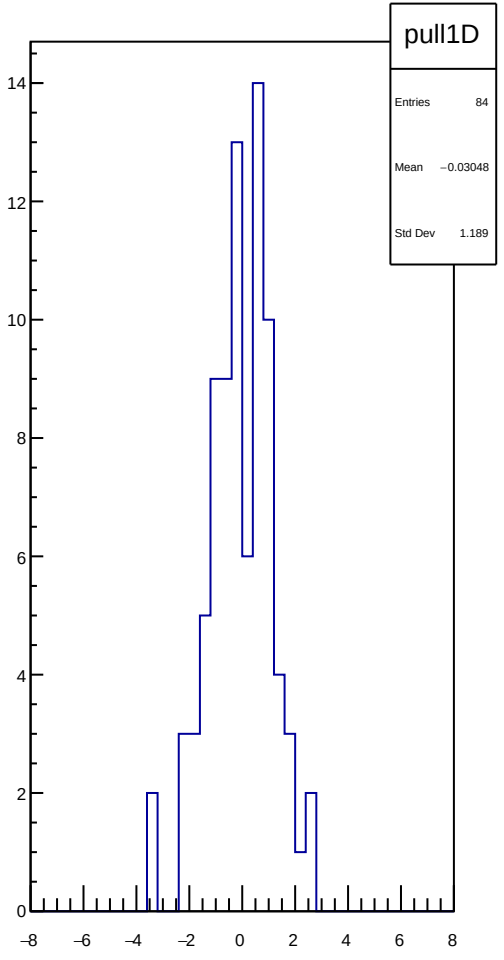

asym_atl1_correction_rms vs run
χ² / ndf 3698 / 83
p0 574.4 ± 0.4538
640
620
600
580
560
540
520

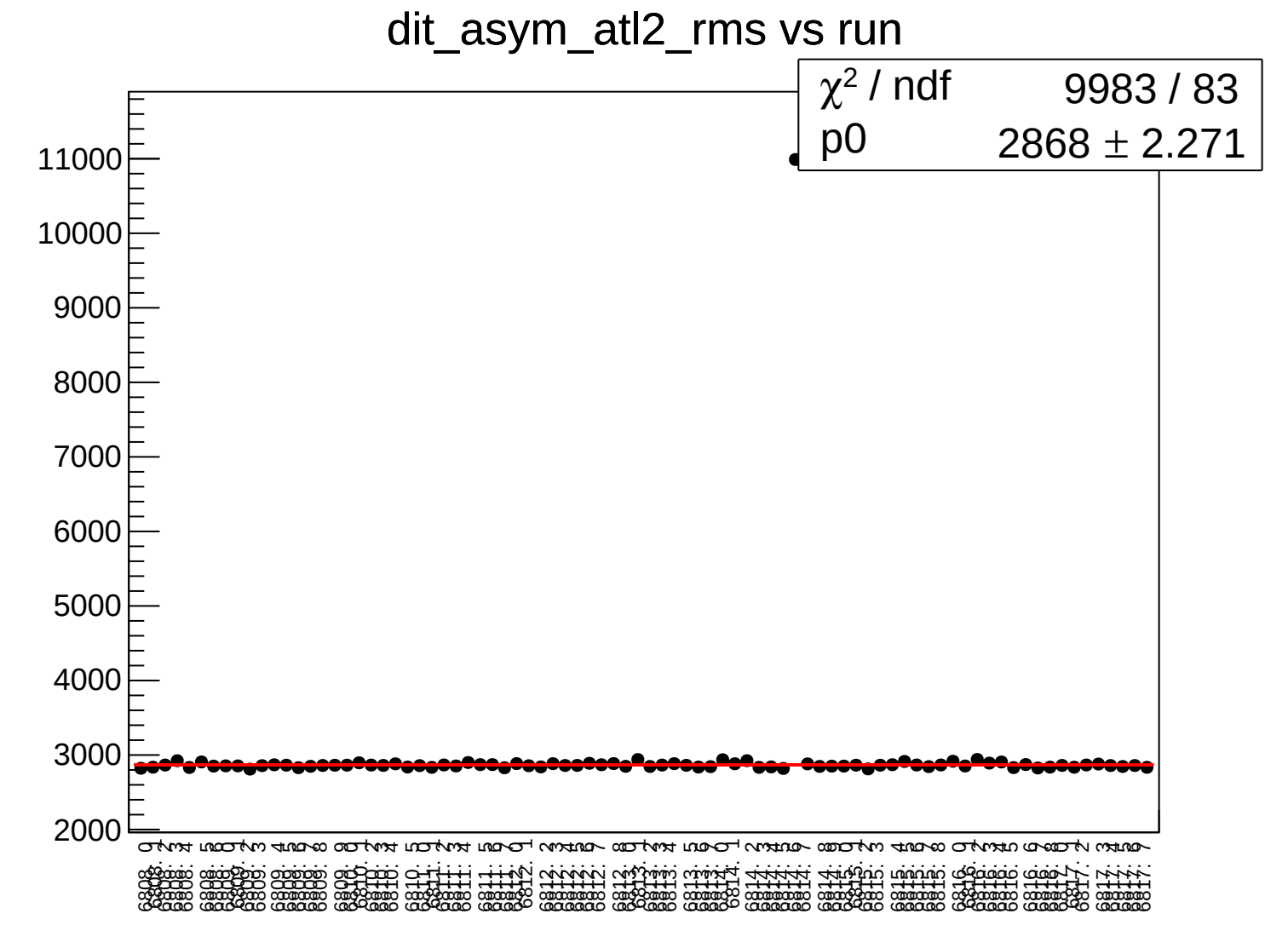

asym_atl1_mean vs run
×10^3
χ² / ndf 81.59 / 83
p0 −2907 ± 2793
pull
Entries 84
Mean −14.26
Std Dev 88.68

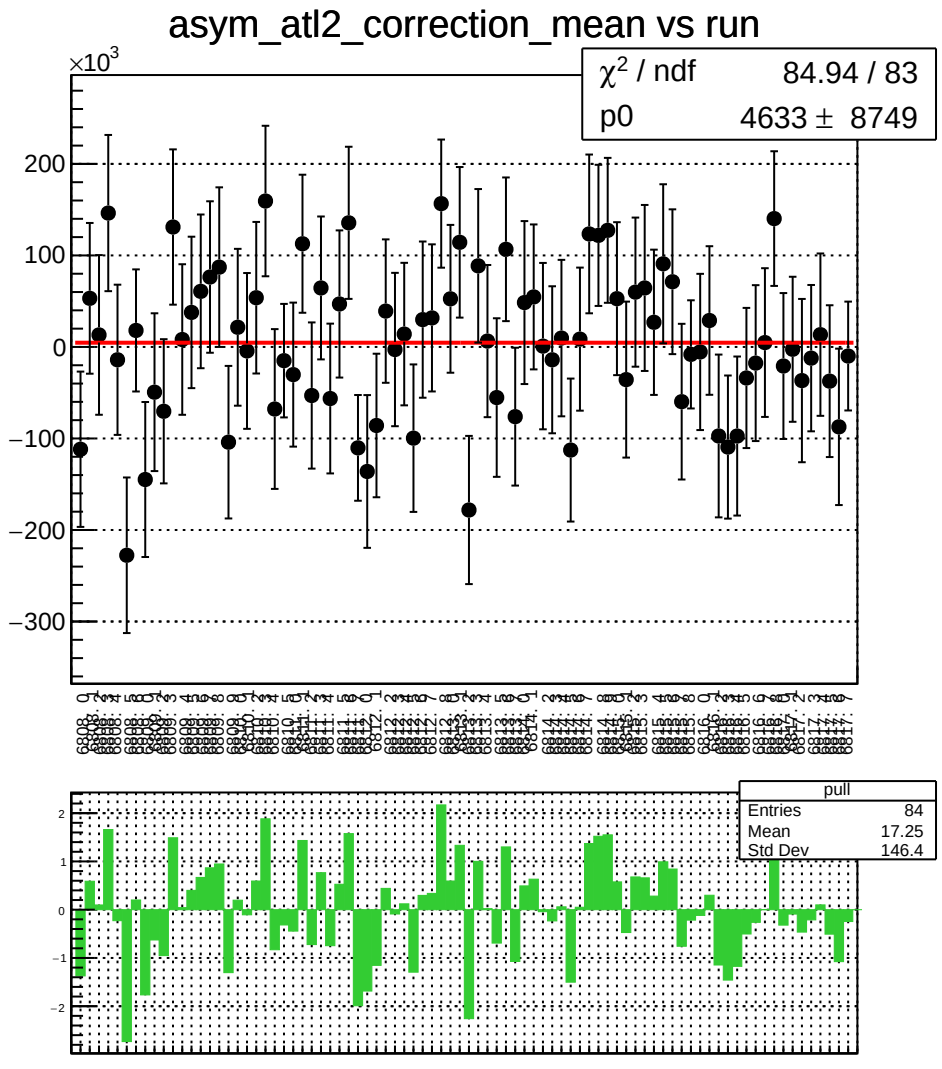

pull1D
Entries 84
Mean −0.01357
Std Dev 0.9854

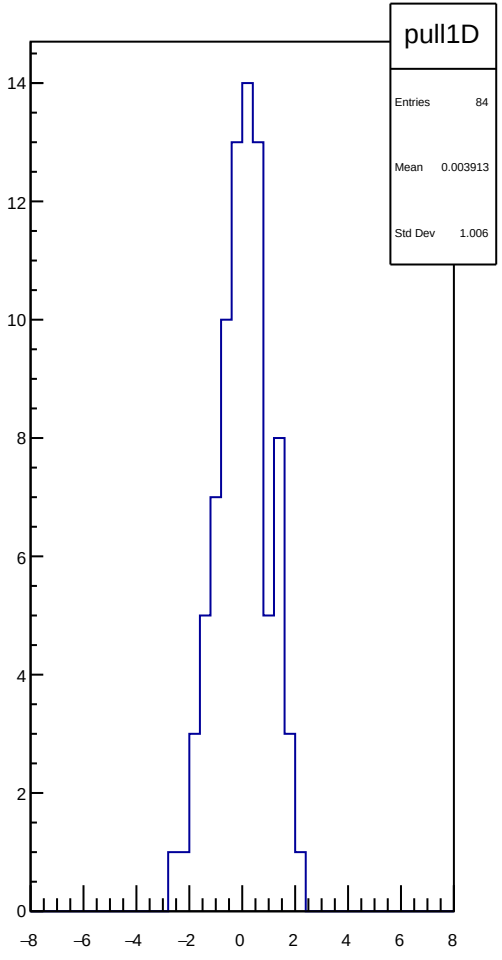

asym_atl1_rms vs run
χ² / ndf 1.074e+04 / 83
p0 2494 ± 1.975
10000
8000
6000
4000
2000

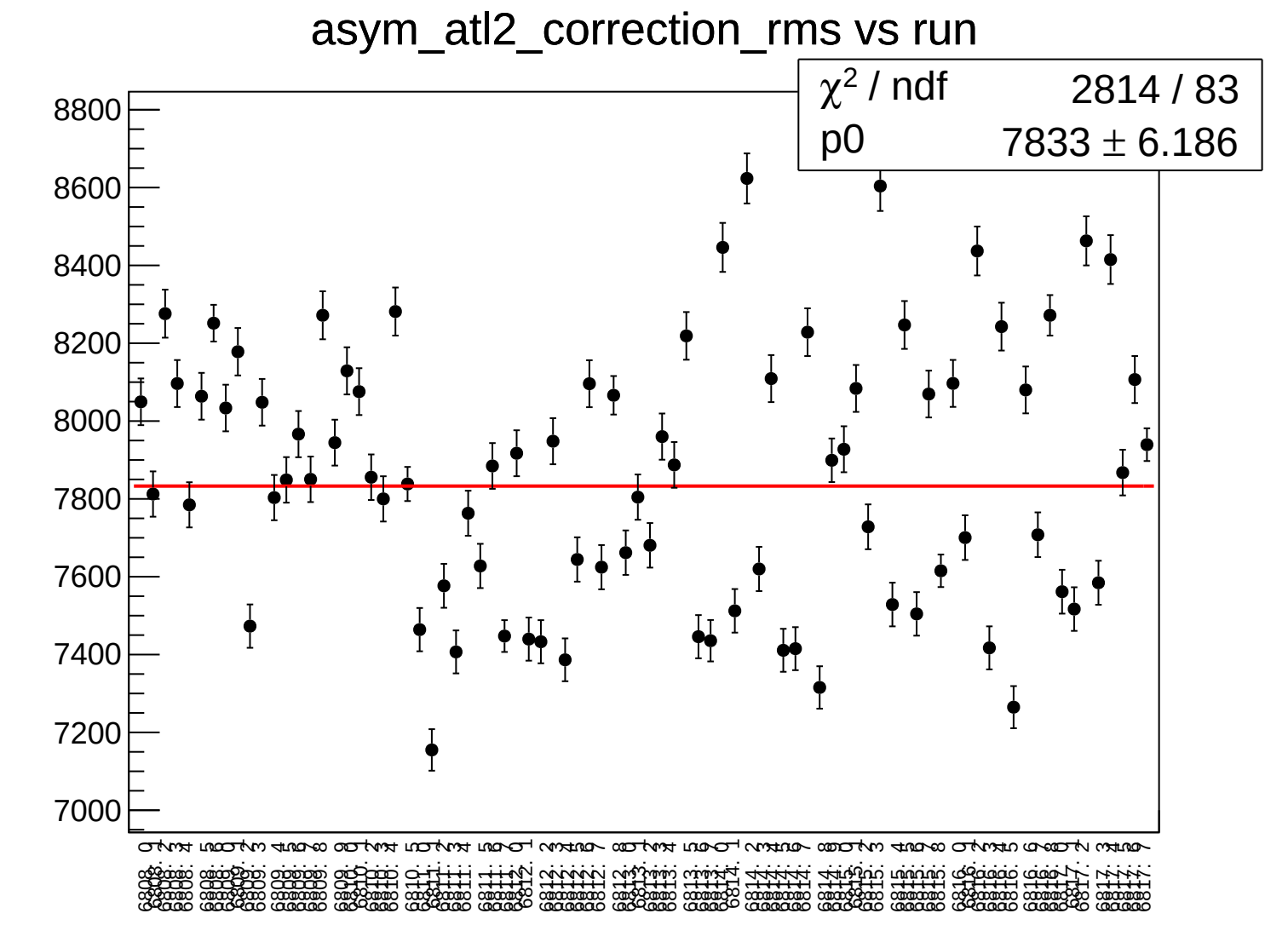

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 118.9 / 83
p0 −5491 ± 3211
pull
Entries 84
Mean −8.09
Std Dev 98.54

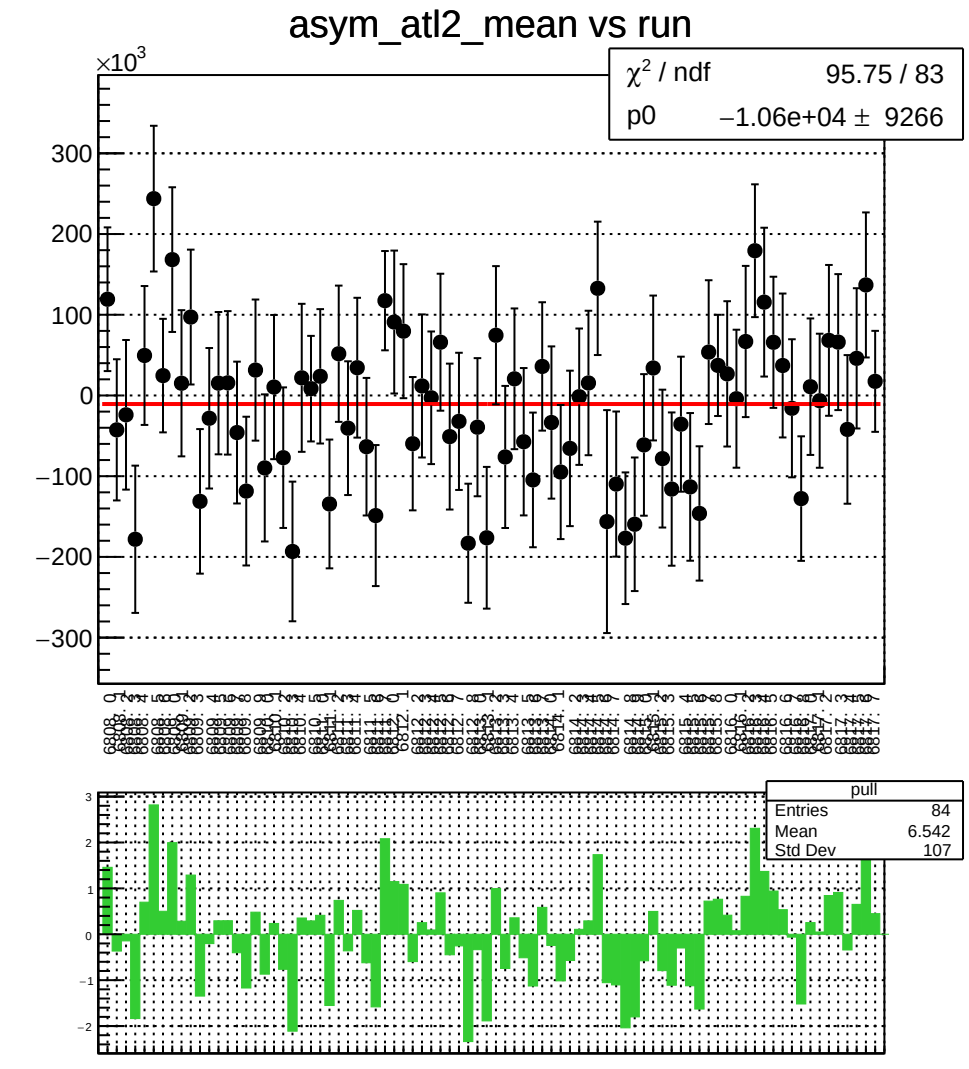

pull1D
Entries 84
Mean −0.03048
Std Dev 1.189

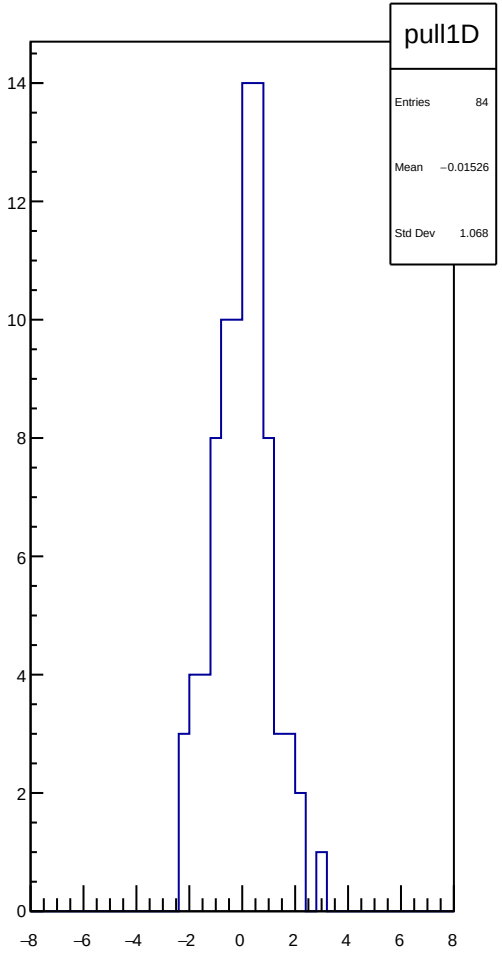

dit_asym_atl2_rms vs run
χ^2 / ndf 9983 / 83
p0 2868 ± 2.271
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

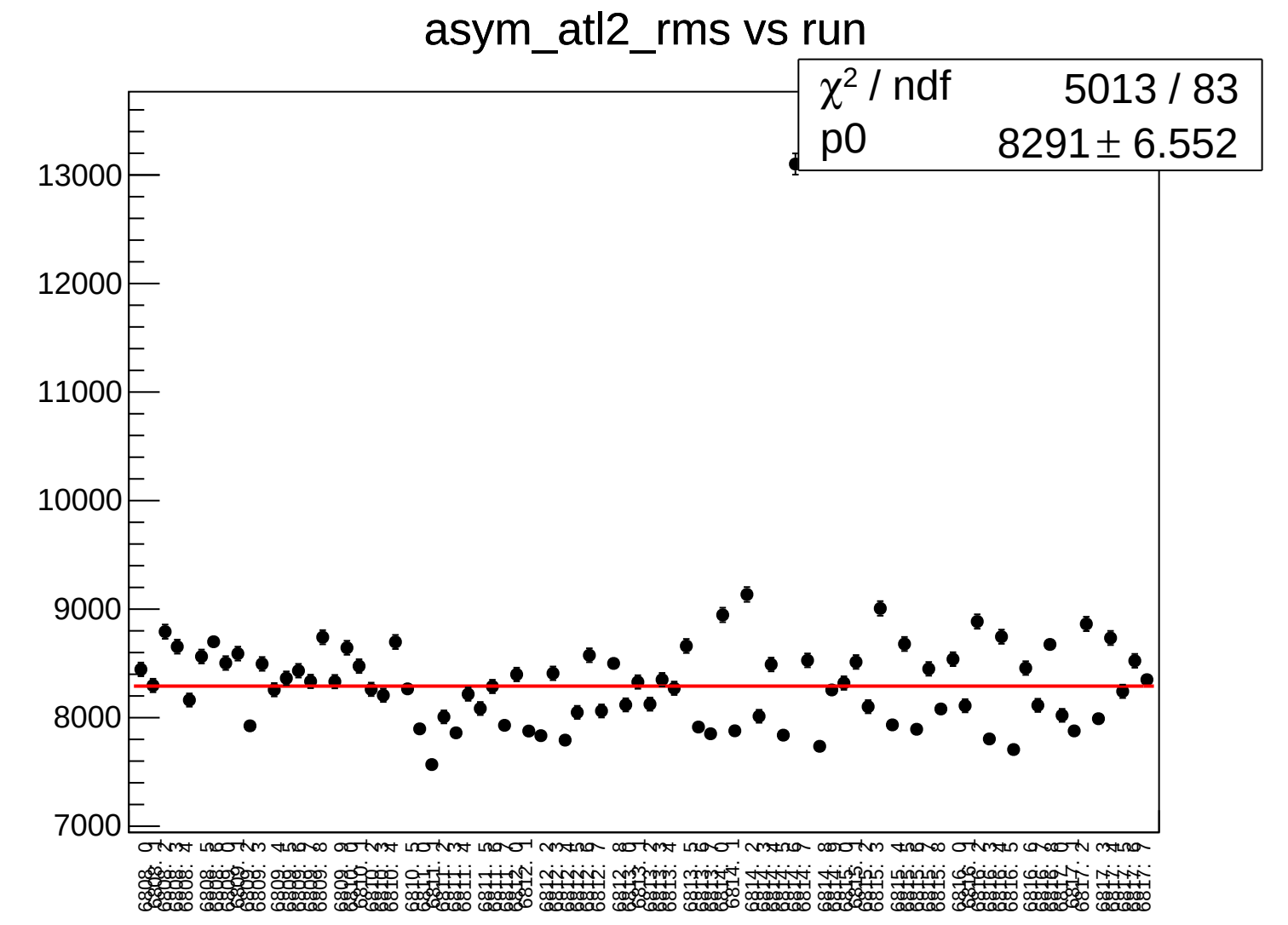

asym_atl2_correction_mean vs run
×10^3
χ^2 / ndf 84.94 / 83
p0 4633 ± 8749
200
100
0
−100
−200
−300
pull
Entries 84
Mean 17.25
Std Dev 146.4
2
1
0
−1
−2

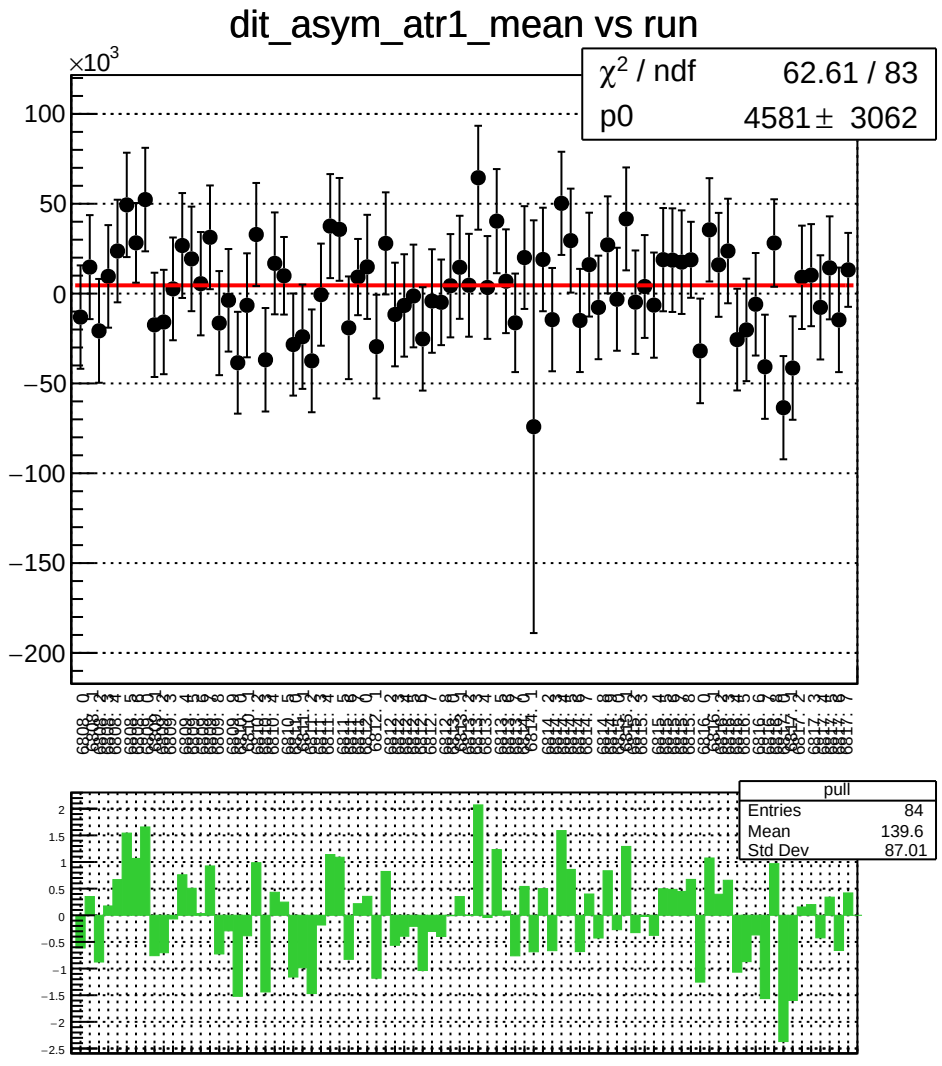

pull1D
Entries 84
Mean 0.003913
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

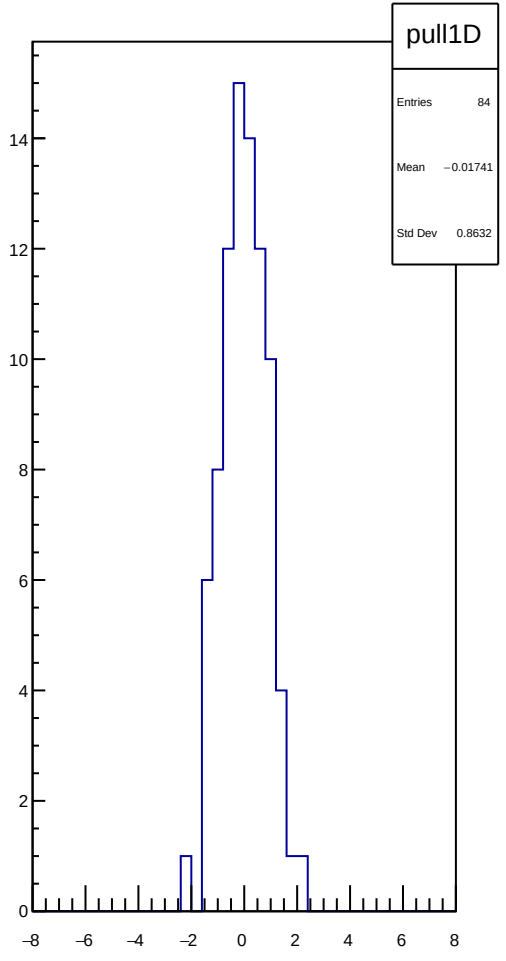

asym_atl2_correction_rms vs run
χ² / ndf 2814 / 83
p0 7833 ± 6.186
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000

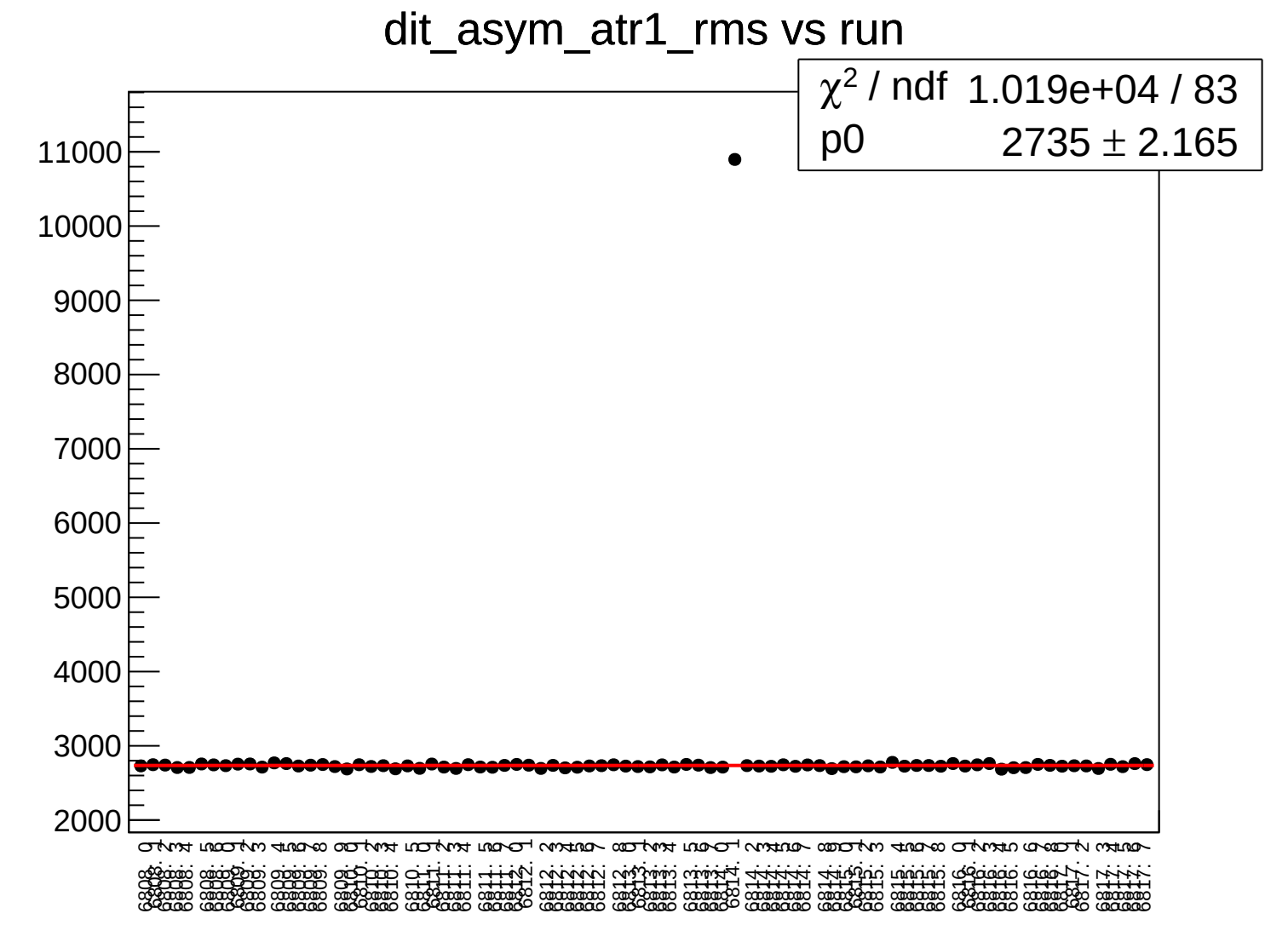

asym_atl2_mean vs run
×10^3
χ² / ndf 95.75 / 83
p0 −1.06e+04 ± 9266
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean 6.542
Std Dev 107
3
2
1
0
−1
−2

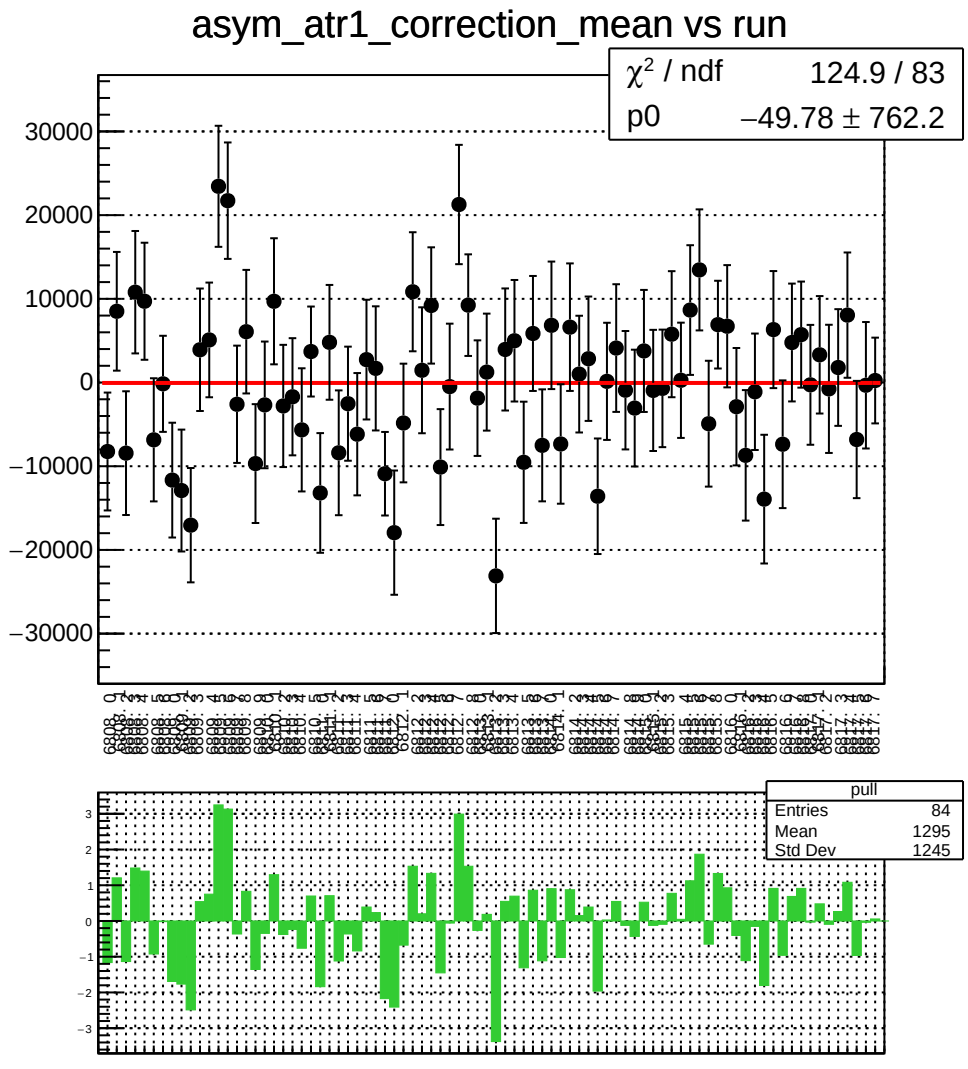

pull1D
Entries 84
Mean −0.01526
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

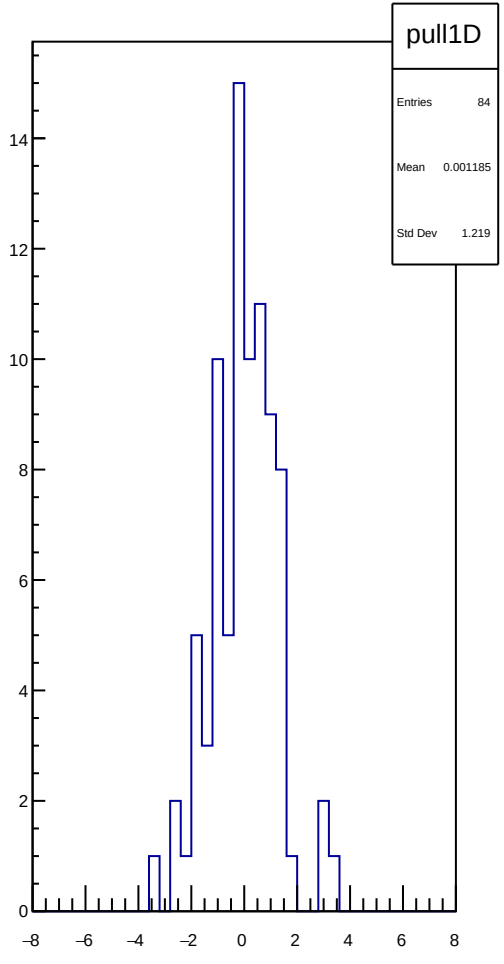

asym_atl2_rms vs run
χ² / ndf 5013 / 83
p0 8291 ± 6.552
13000
12000
11000
10000
9000
8000
7000

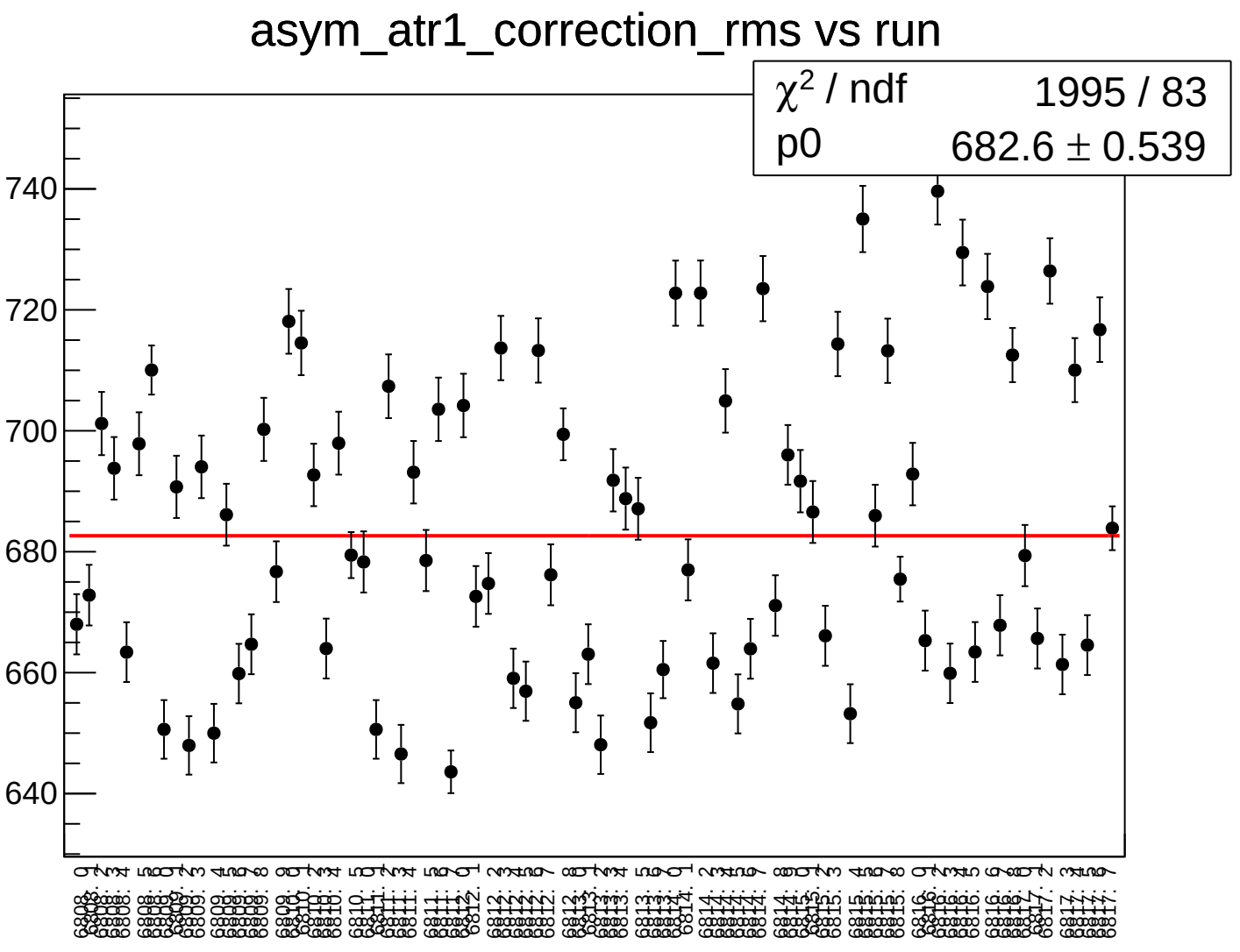

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 62.61 / 83
p0 4581 ± 3062
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean 139.6
Std Dev 87.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

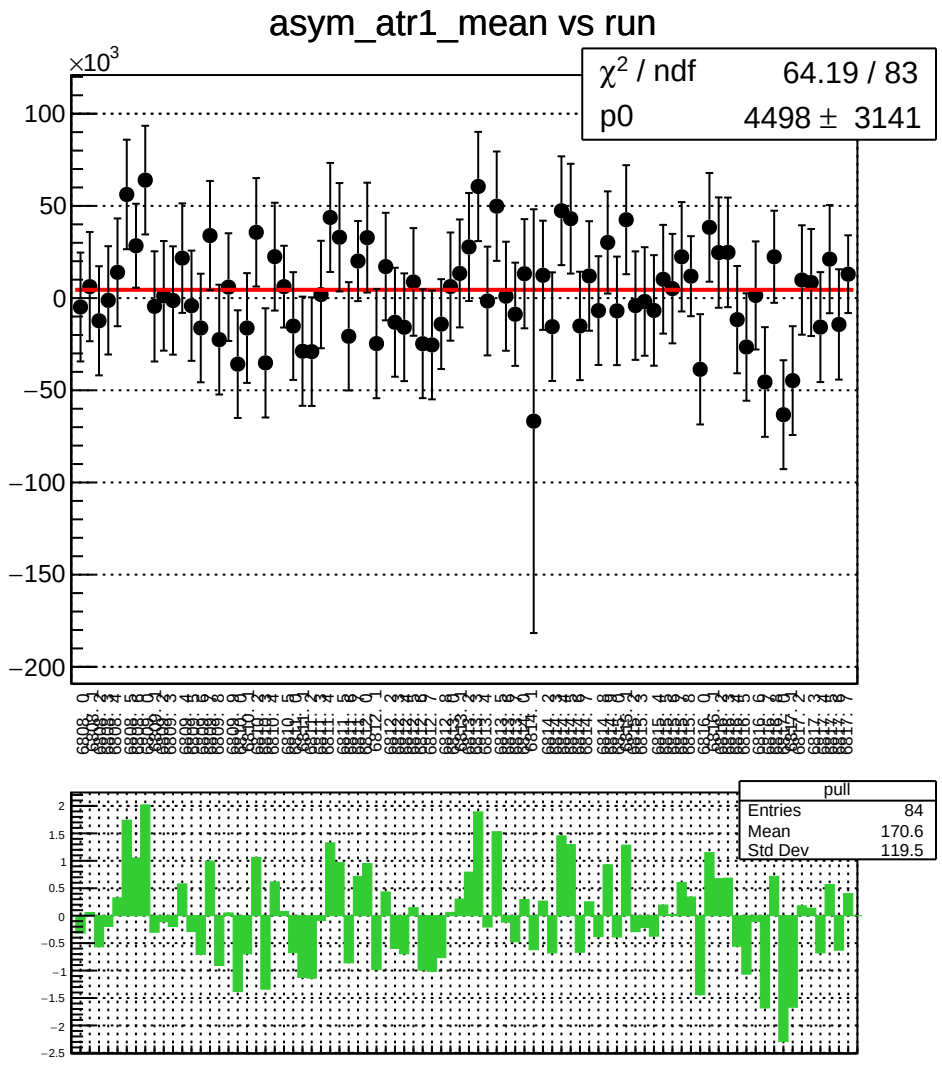

pull1D
Entries 84
Mean −0.01741
Std Dev 0.8632
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

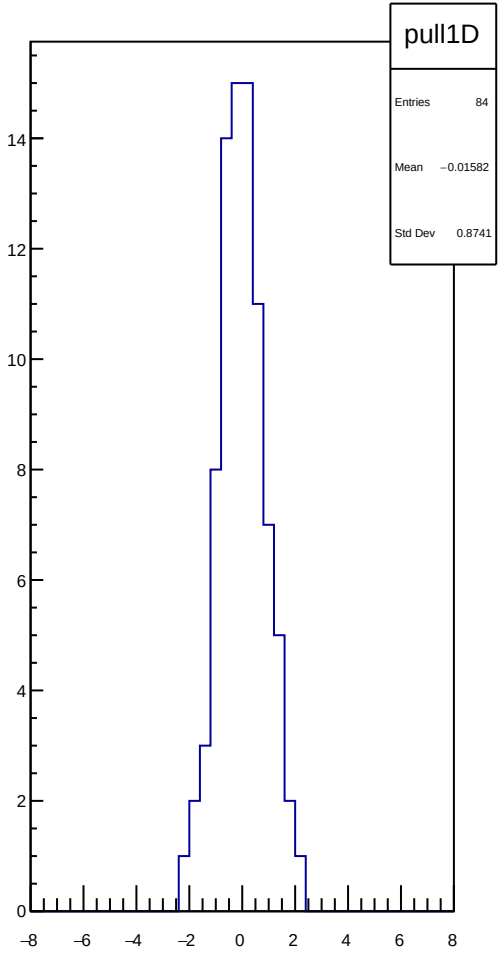

dit_asym_atr1_rms vs run
χ^2 / ndf 1.019e+04 / 83
p0 2735 ± 2.165
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

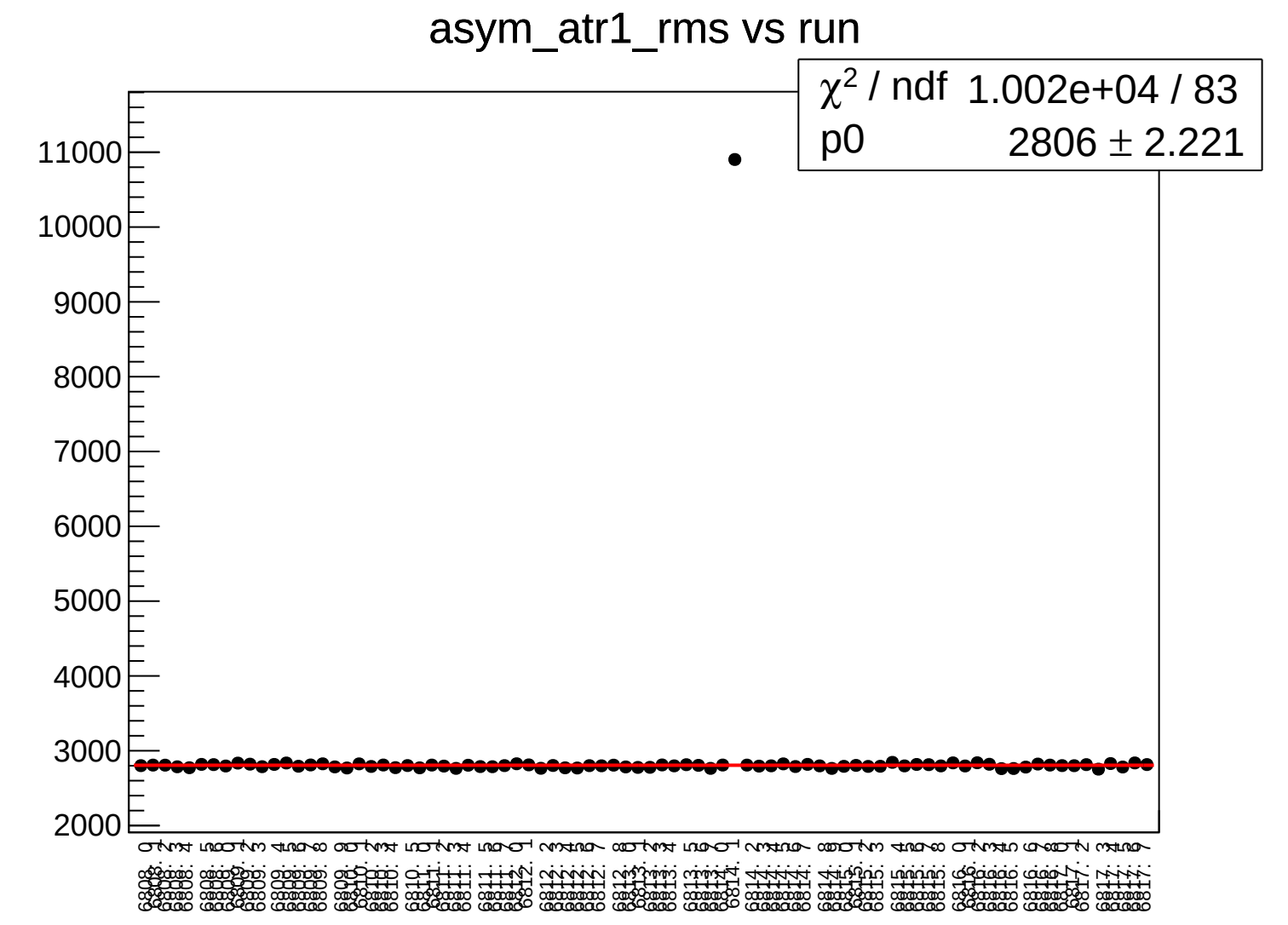

asym_atr1_correction_mean vs run
χ² / ndf 124.9 / 83
p0 −49.78 ± 762.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 1295
Std Dev 1245
3
2
1
0
−1
−2
−3

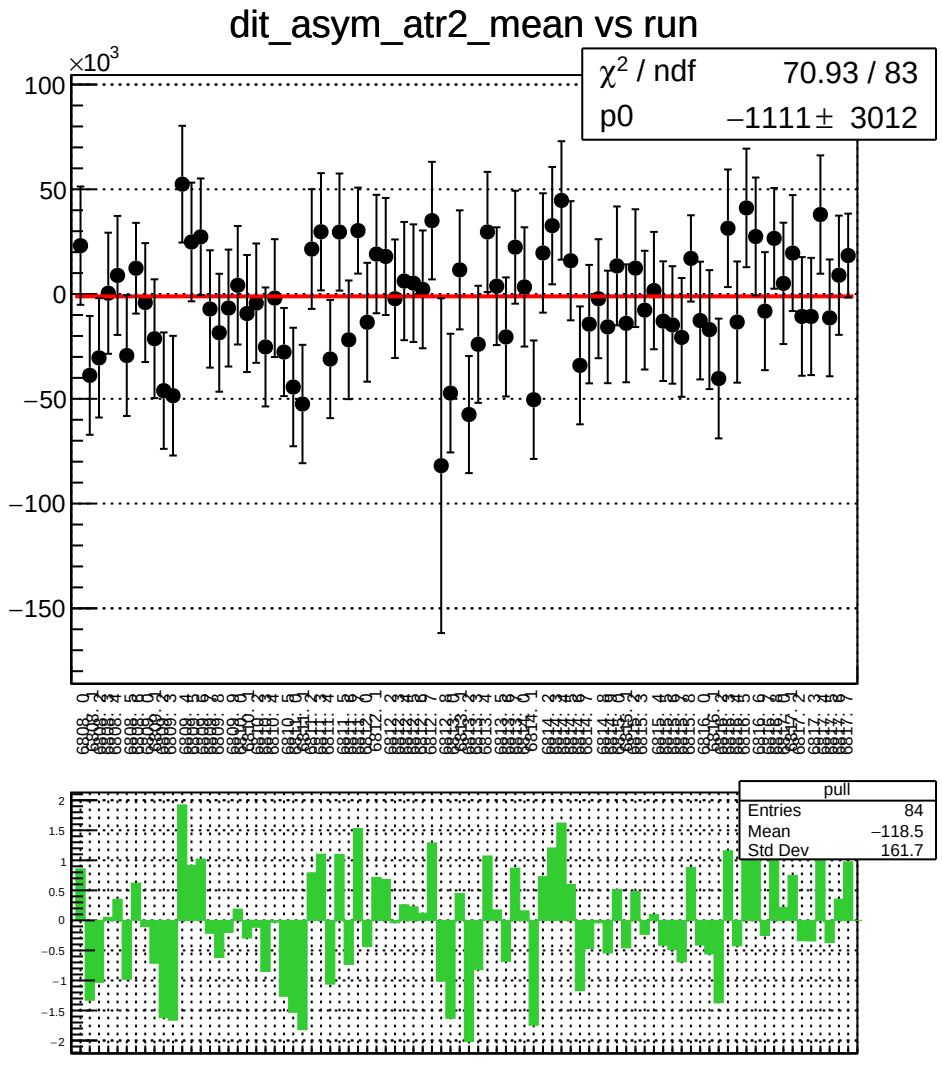

pull1D
Entries 84
Mean 0.001185
Std Dev 1.219
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

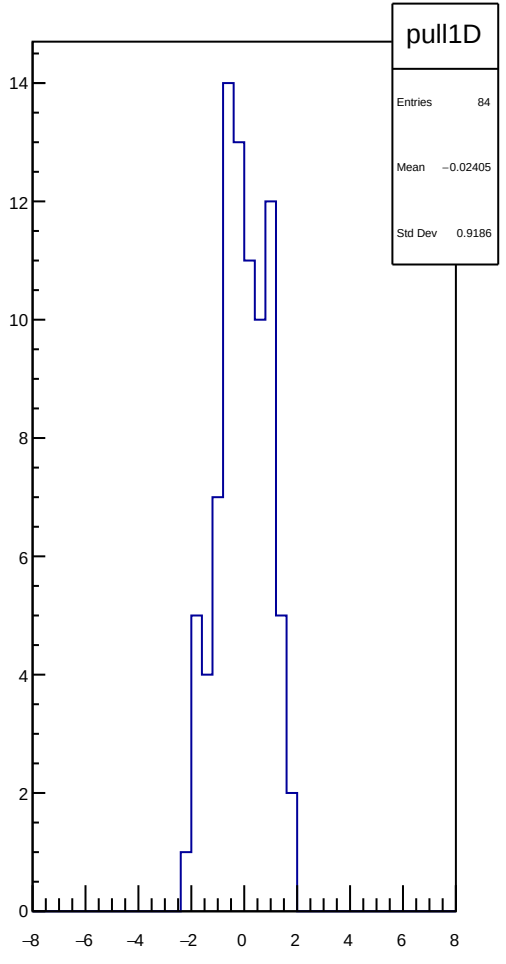

asym_atr1_correction_rms vs run
χ² / ndf 1995 / 83
p0 682.6 ± 0.539
740
720
700
680
660
640

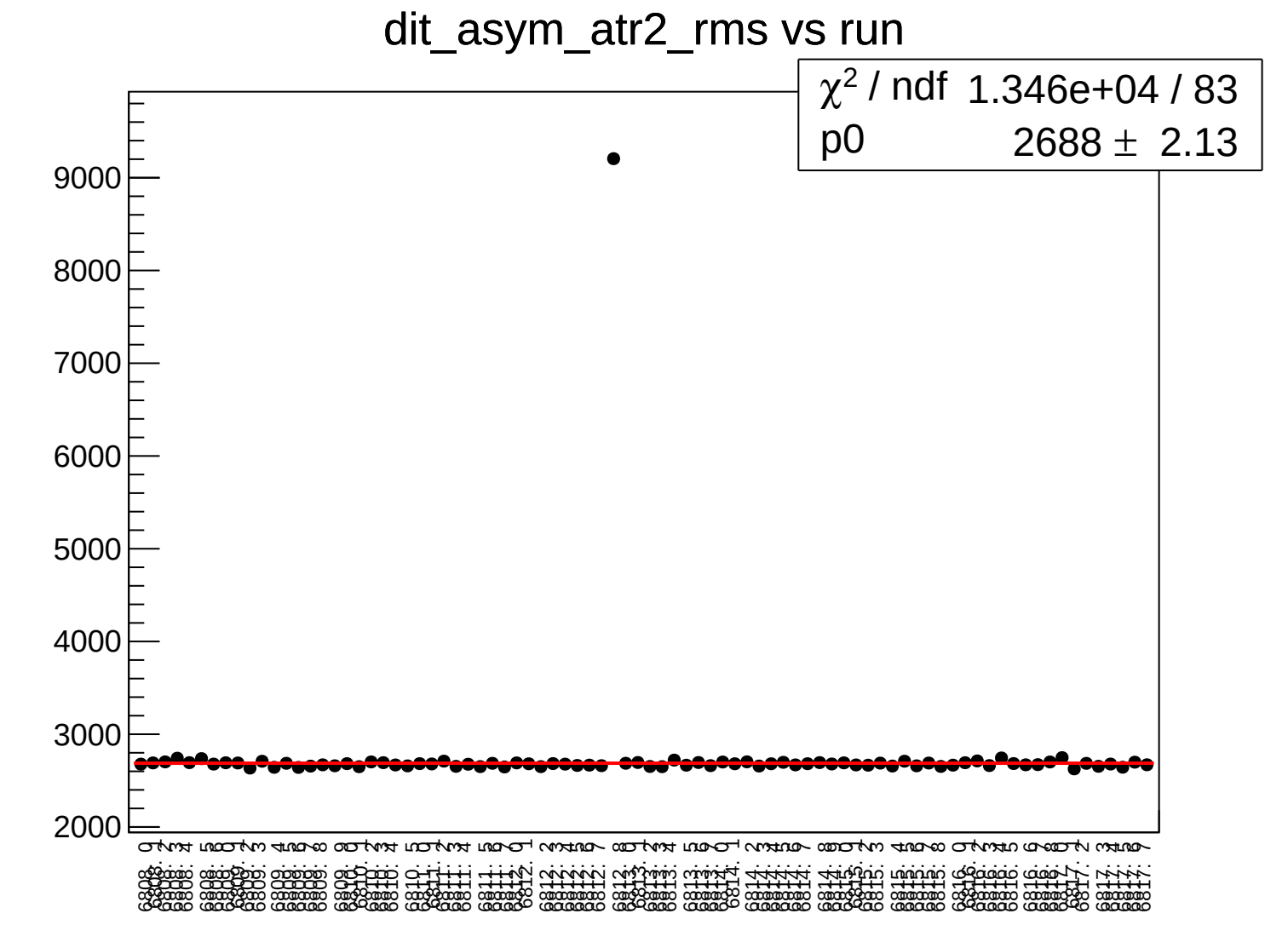

asym_atr1_mean vs run
×10^3
χ^2 / ndf 64.19 / 83
p0 4498 ± 3141
pull
Entries 84
Mean 170.6
Std Dev 119.5

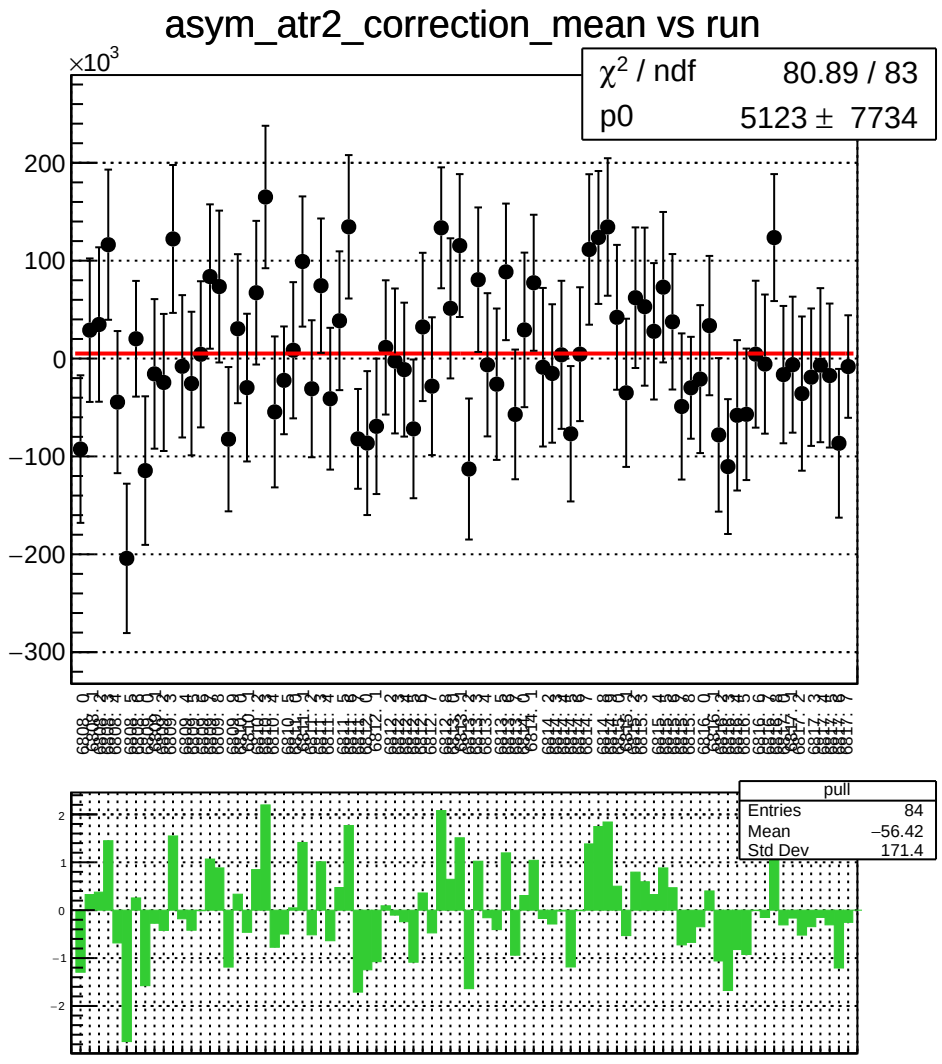

pull1D
Entries 84
Mean −0.01582
Std Dev 0.8741

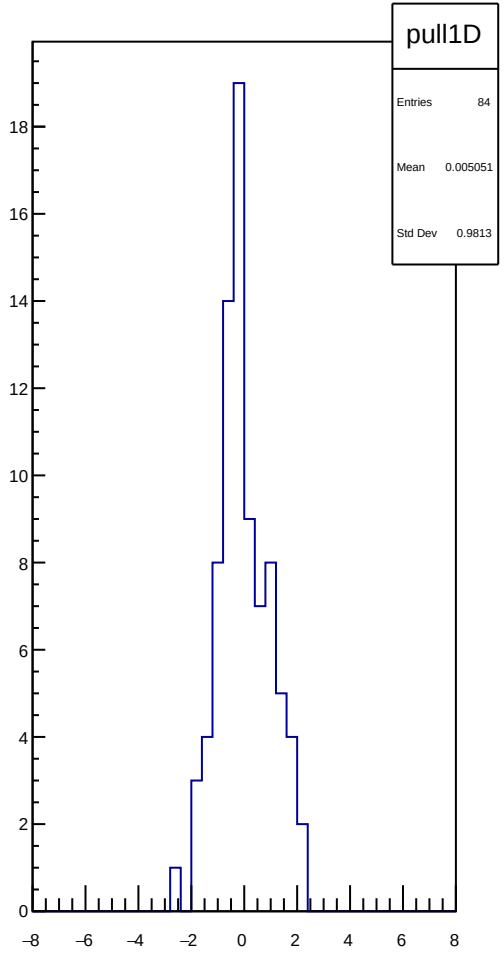

asym_atr1_rms vs run
χ² / ndf 1.002e+04 / 83
p0 2806 ± 2.221
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

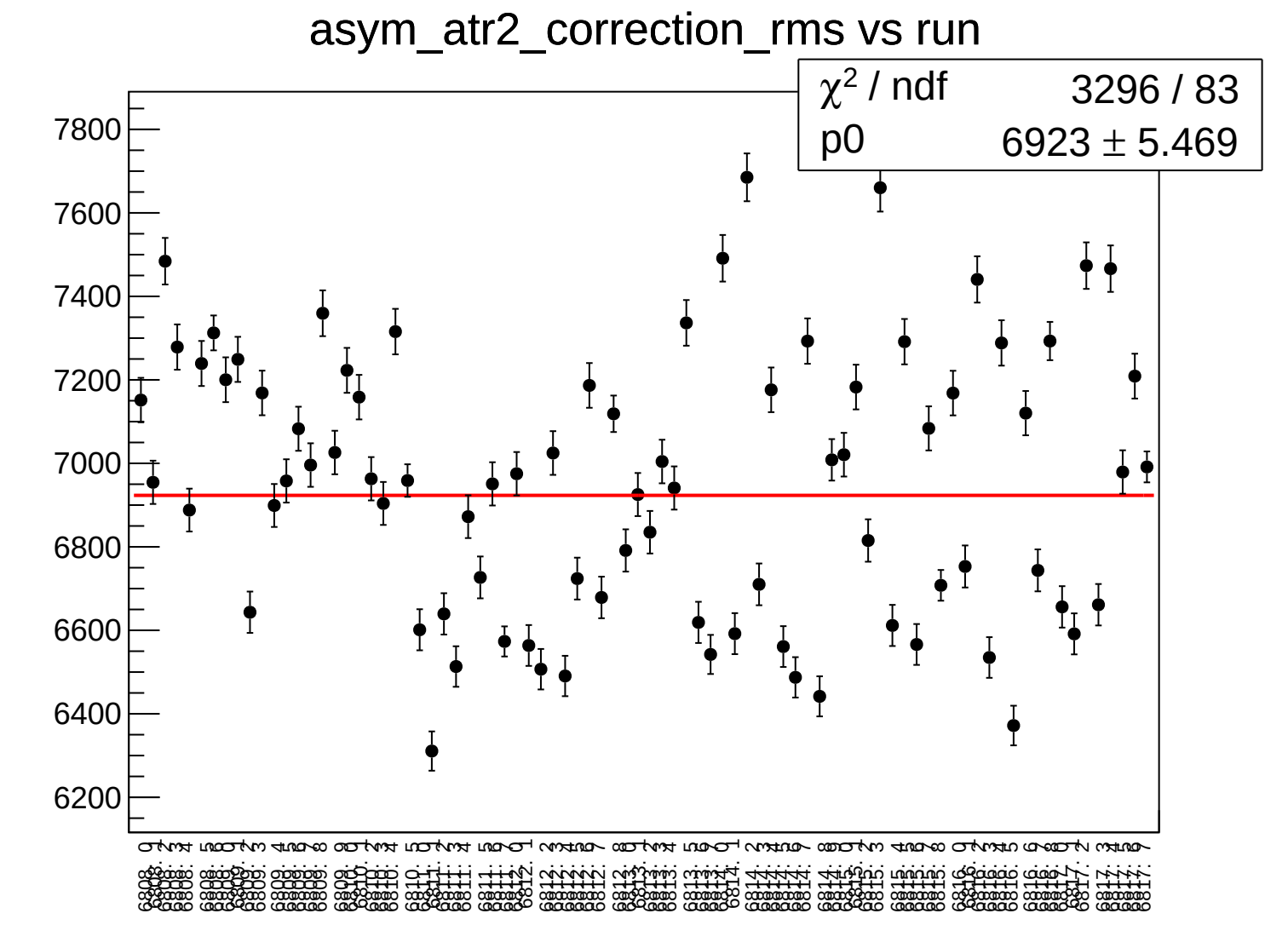

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 70.93 / 83
p0 −1111 ± 3012
100
50
0
−50
−100
−150
pull
Entries 84
Mean −118.5
Std Dev 161.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

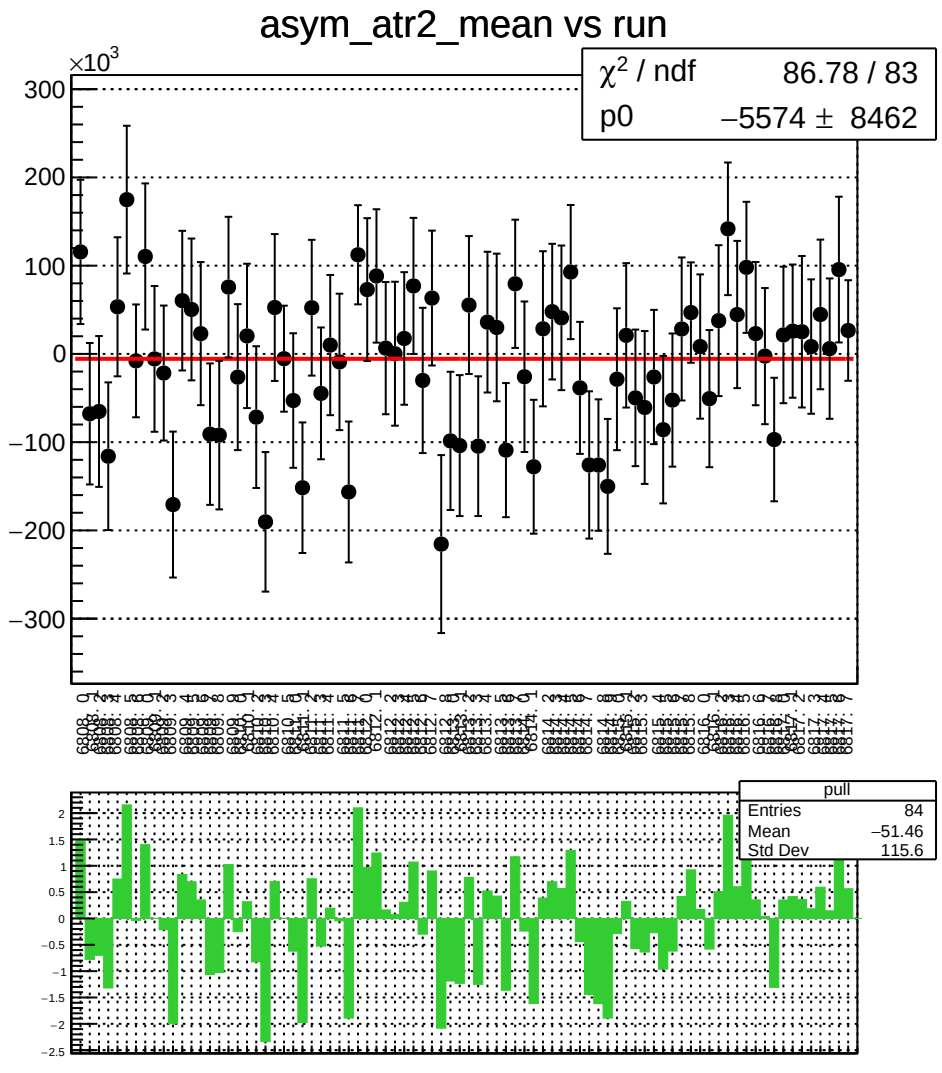

pull1D
Entries 84
Mean −0.02405
Std Dev 0.9186
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

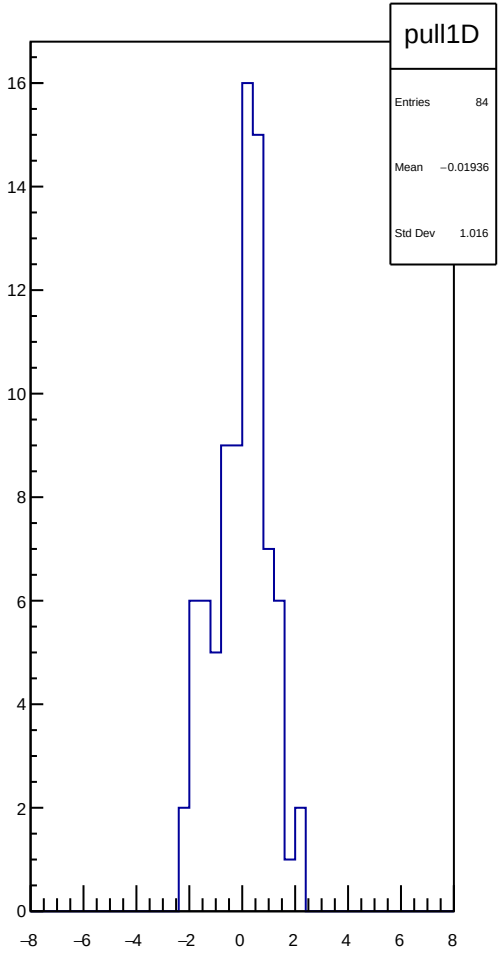

dit_asym_atr2_rms vs run
χ² / ndf 1.346e+04 / 83
p0 2688 ± 2.13
9000
8000
7000
6000
5000
4000
3000
2000

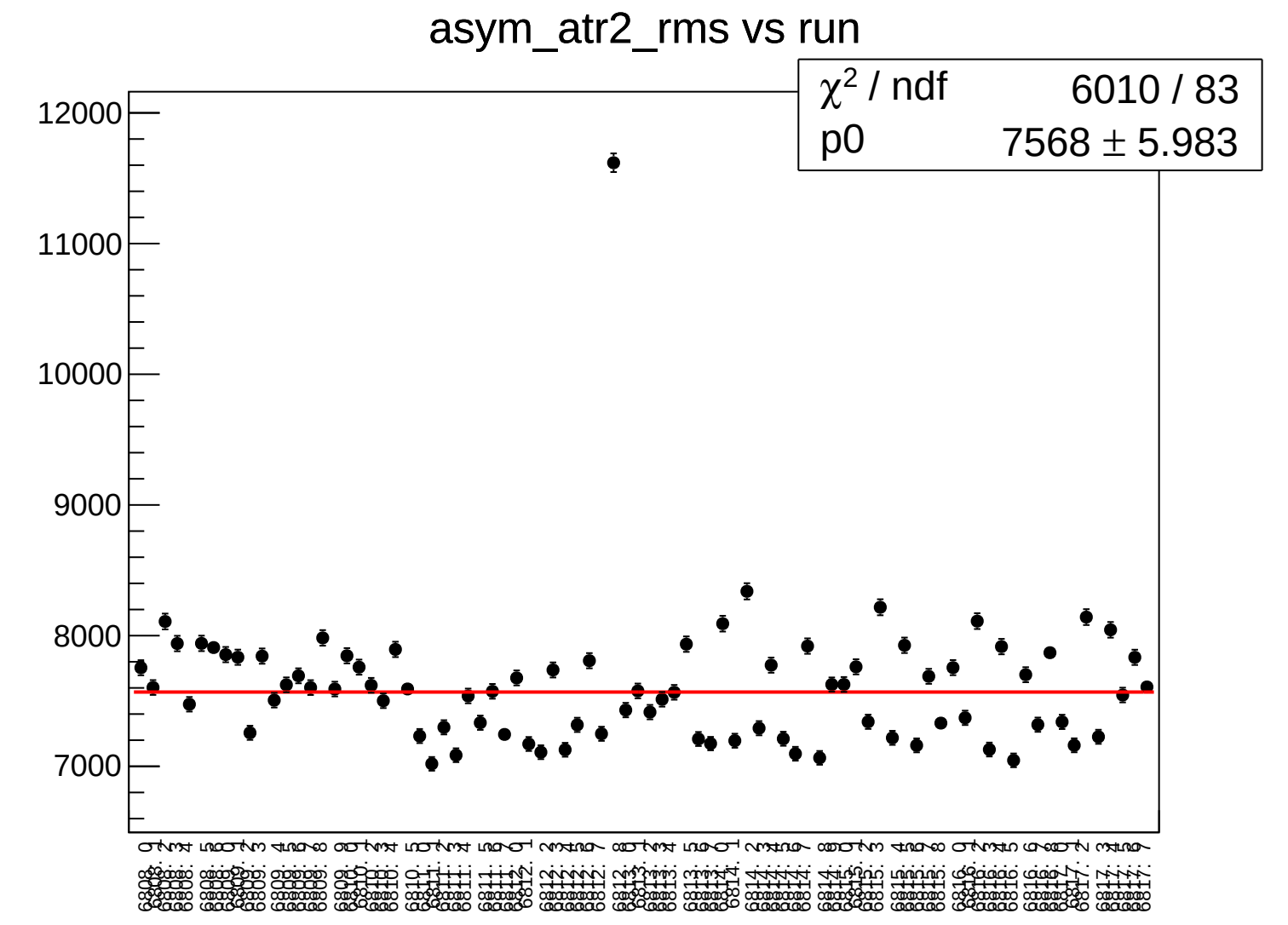

asym_atr2_correction_mean vs run
×10^3
χ^2 / ndf 80.89 / 83
p0 5123 ± 7734
200
100
0
−100
−200
−300
pull
Entries 84
Mean −56.42
Std Dev 171.4
2
1
0
−1
−2

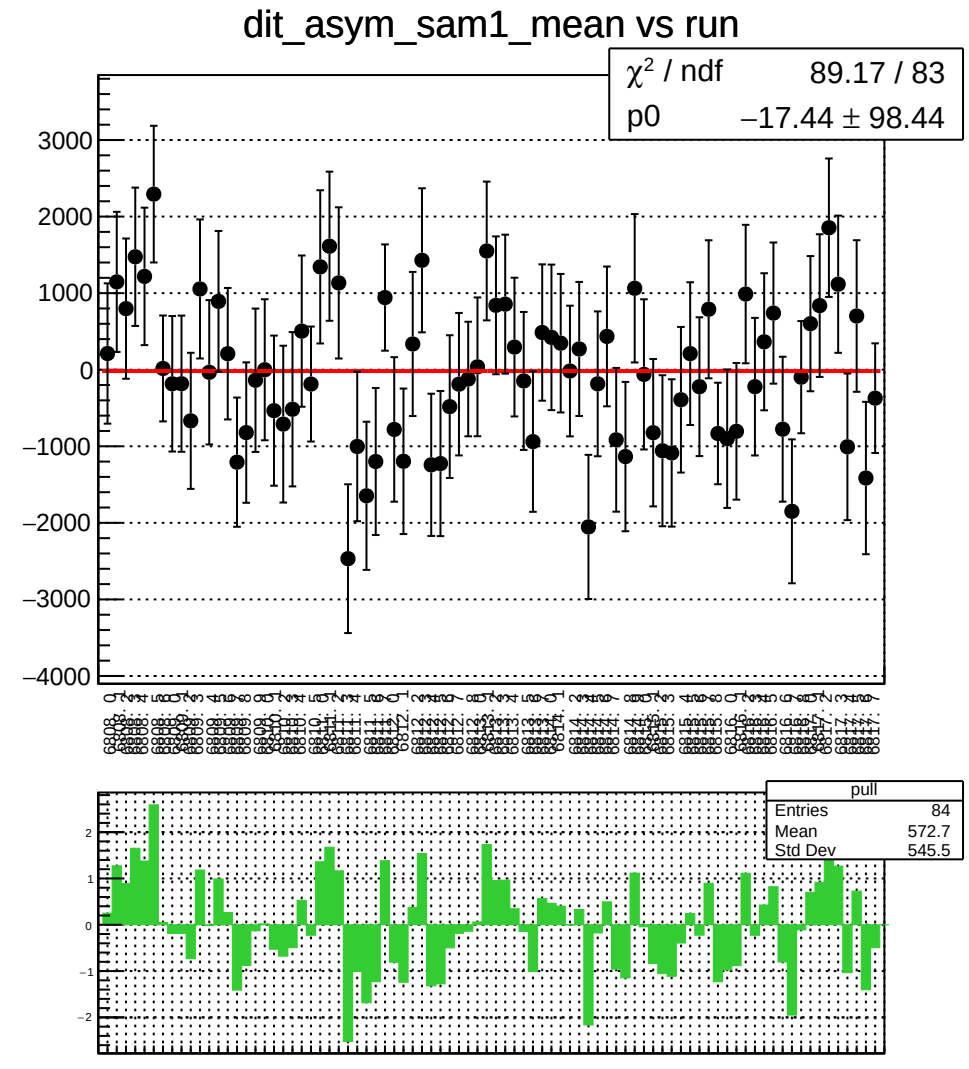

pull1D
Entries 84
Mean 0.005051
Std Dev 0.9813
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

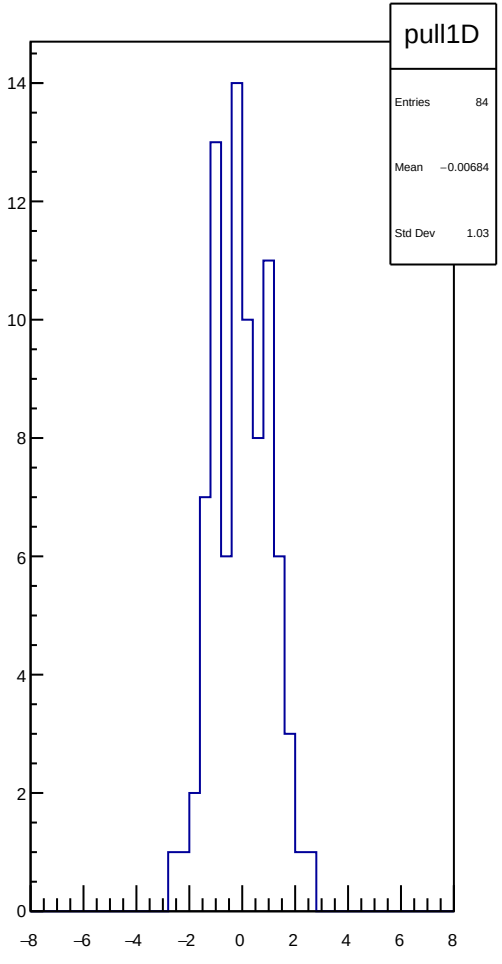

asym_atr2_correction_rms vs run
χ^2 / ndf 3296 / 83
p0 6923 ± 5.469
7800
7600
7400
7200
7000
6800
6600
6400
6200

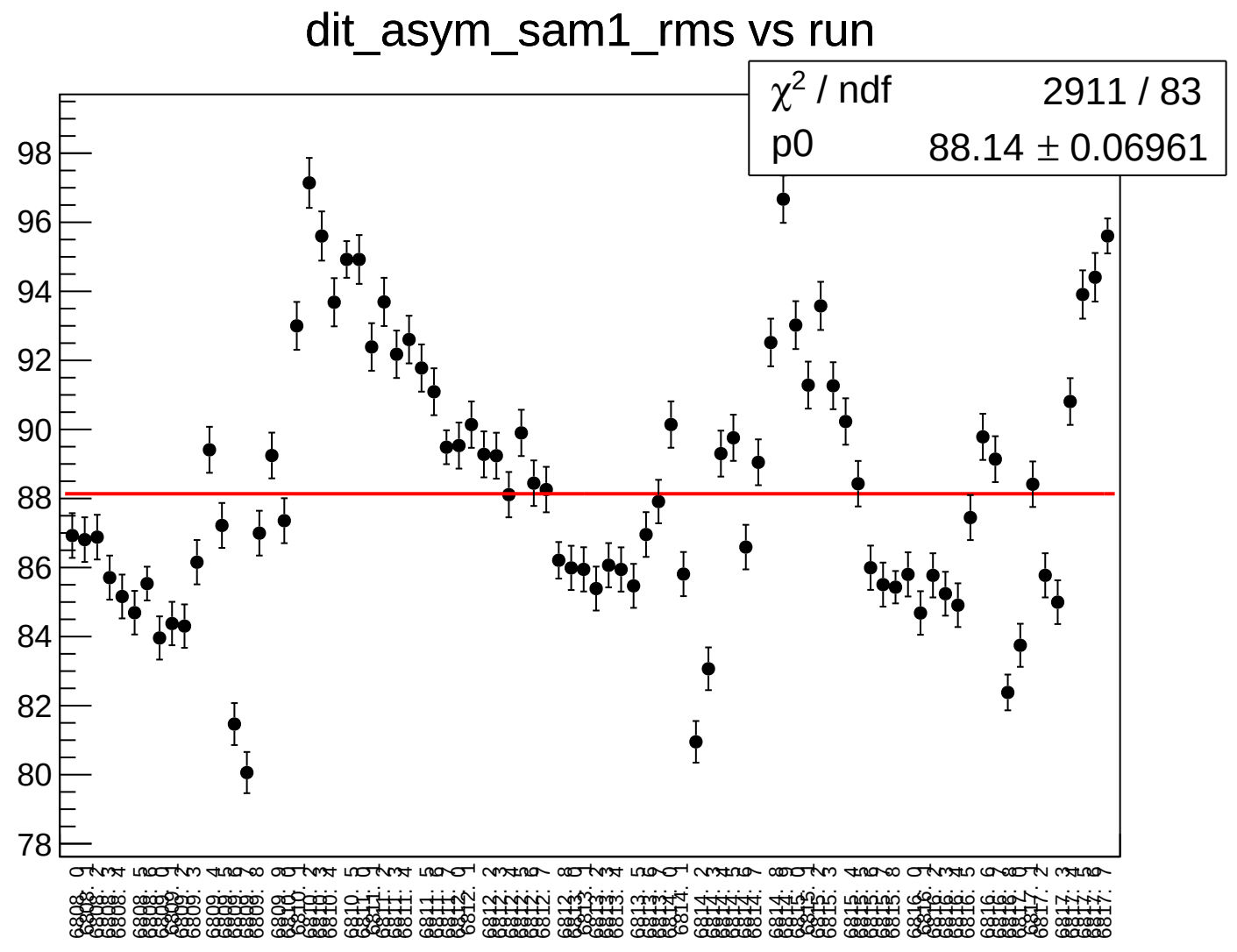

asym_atr2_mean vs run
×10^3
χ² / ndf 86.78 / 83
p0 −5574 ± 8462
pull
Entries 84
Mean −51.46
Std Dev 115.6

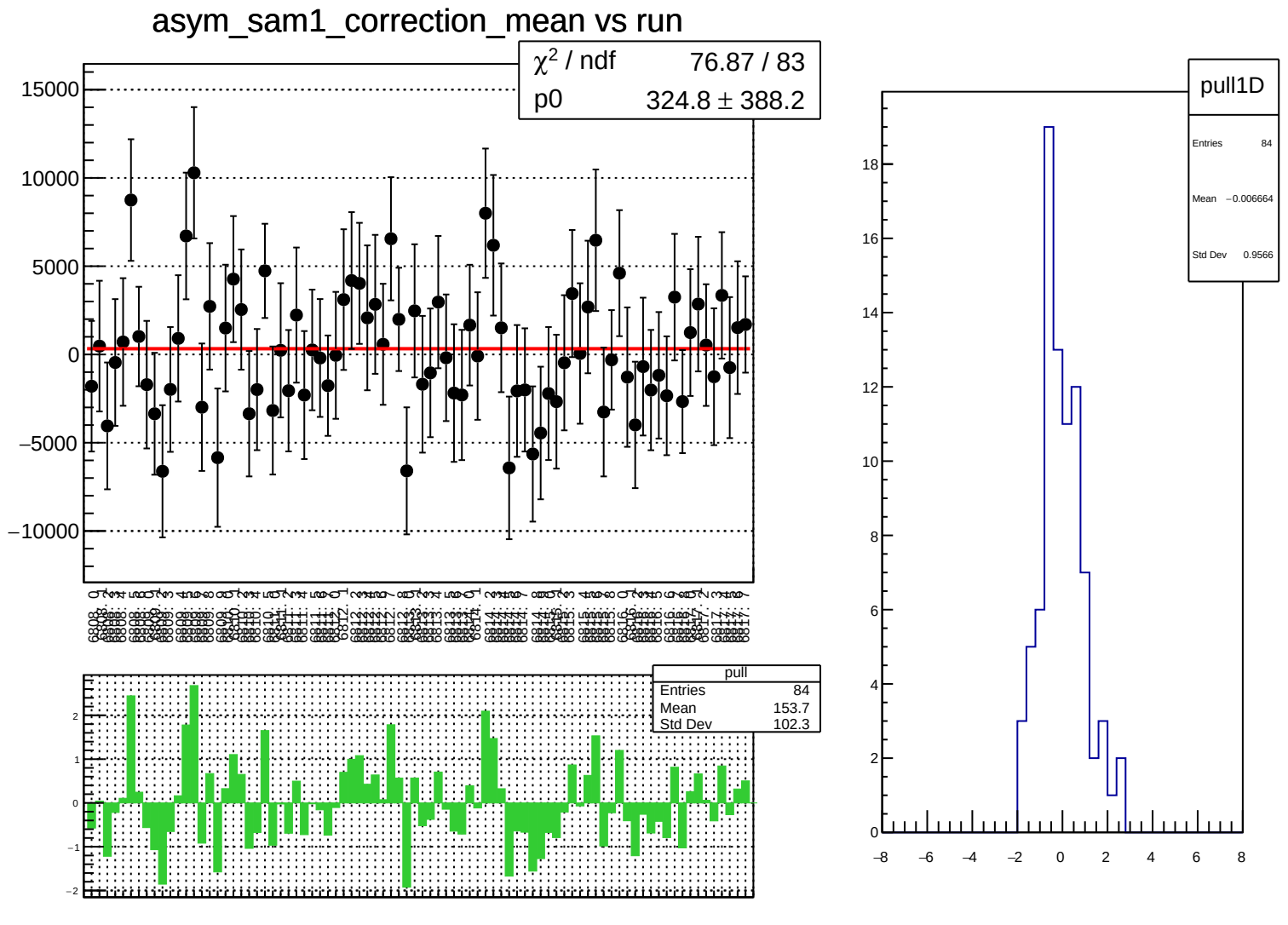

pull1D
Entries 84
Mean −0.01936
Std Dev 1.016

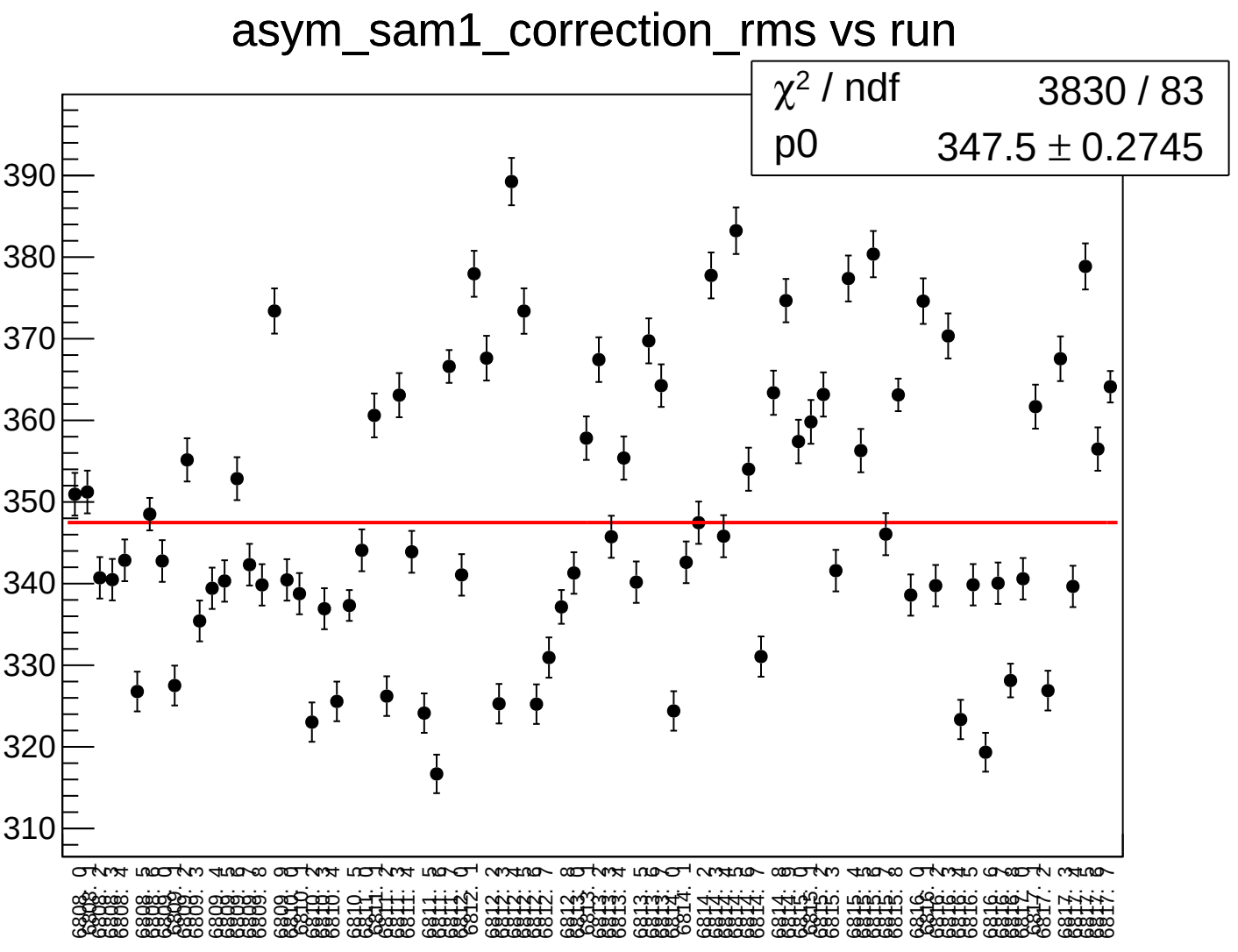

asym_atr2_rms vs run
χ^2 / ndf 6010 / 83
p0 7568 ± 5.983
12000
11000
10000
9000
8000
7000

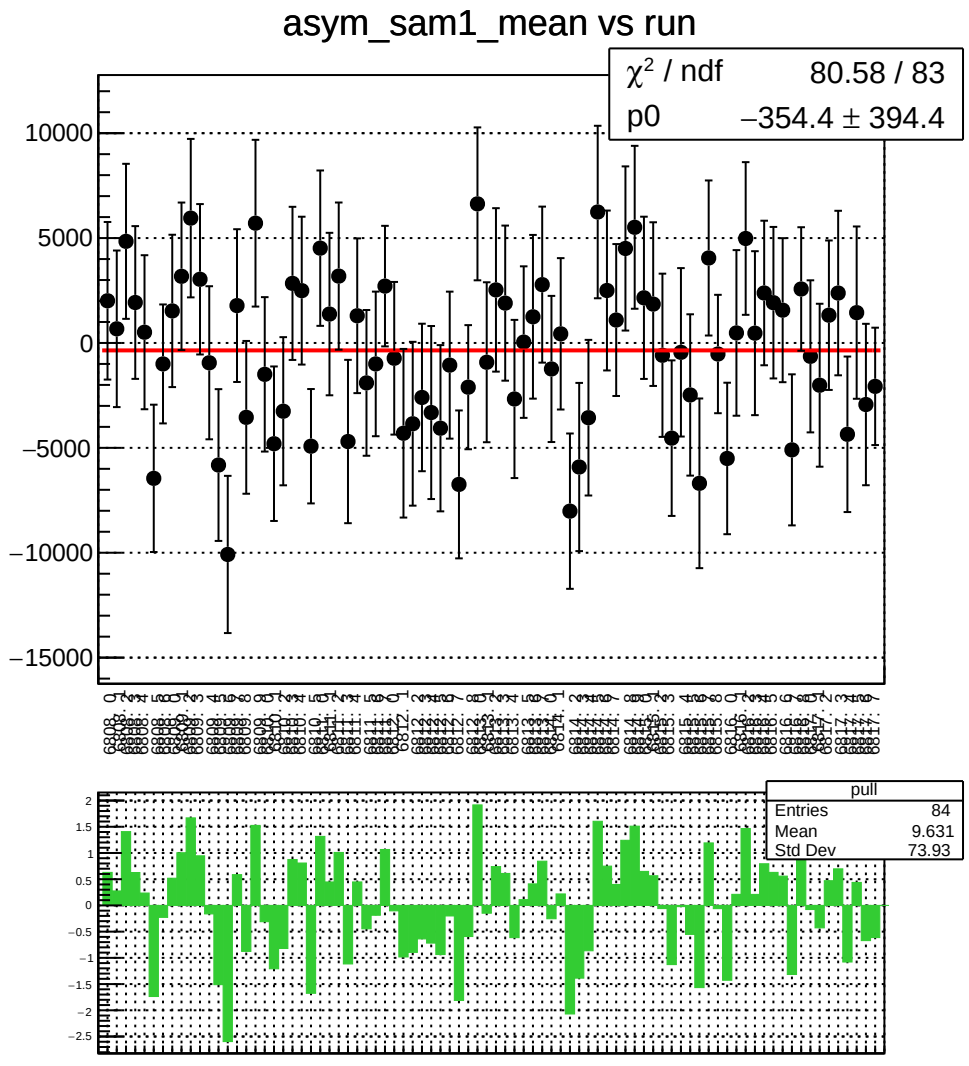

dit_asym_sam1_mean vs run
χ² / ndf 89.17 / 83
p0 −17.44 ± 98.44
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 84
Mean 572.7
Std Dev 545.5
2
1
0
−1
−2

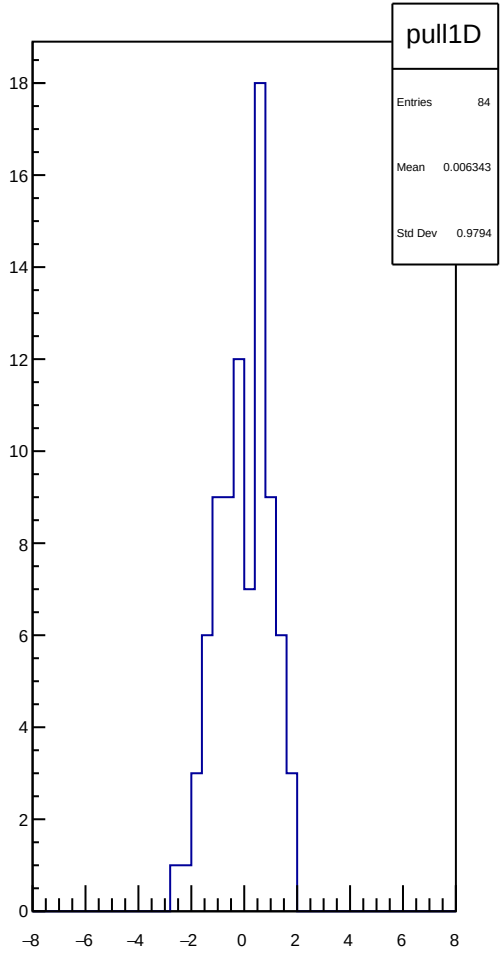

pull1D
Entries 84
Mean −0.00684
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

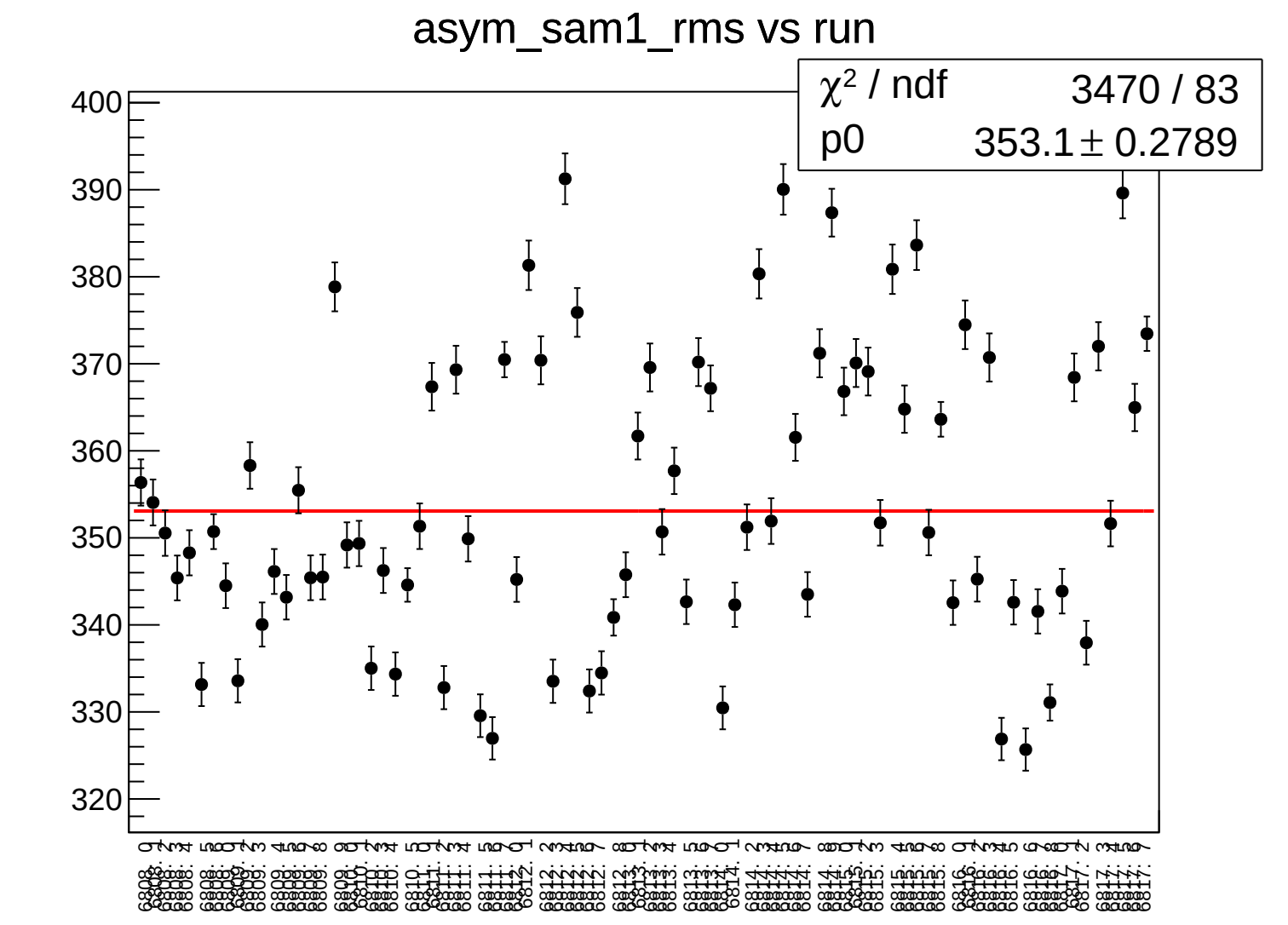

dit_asym_sam1_rms vs run
χ^2 / ndf 2911 / 83
p0 88.14 ± 0.06961
98
96
94
92
90
88
86
84
82
80
78

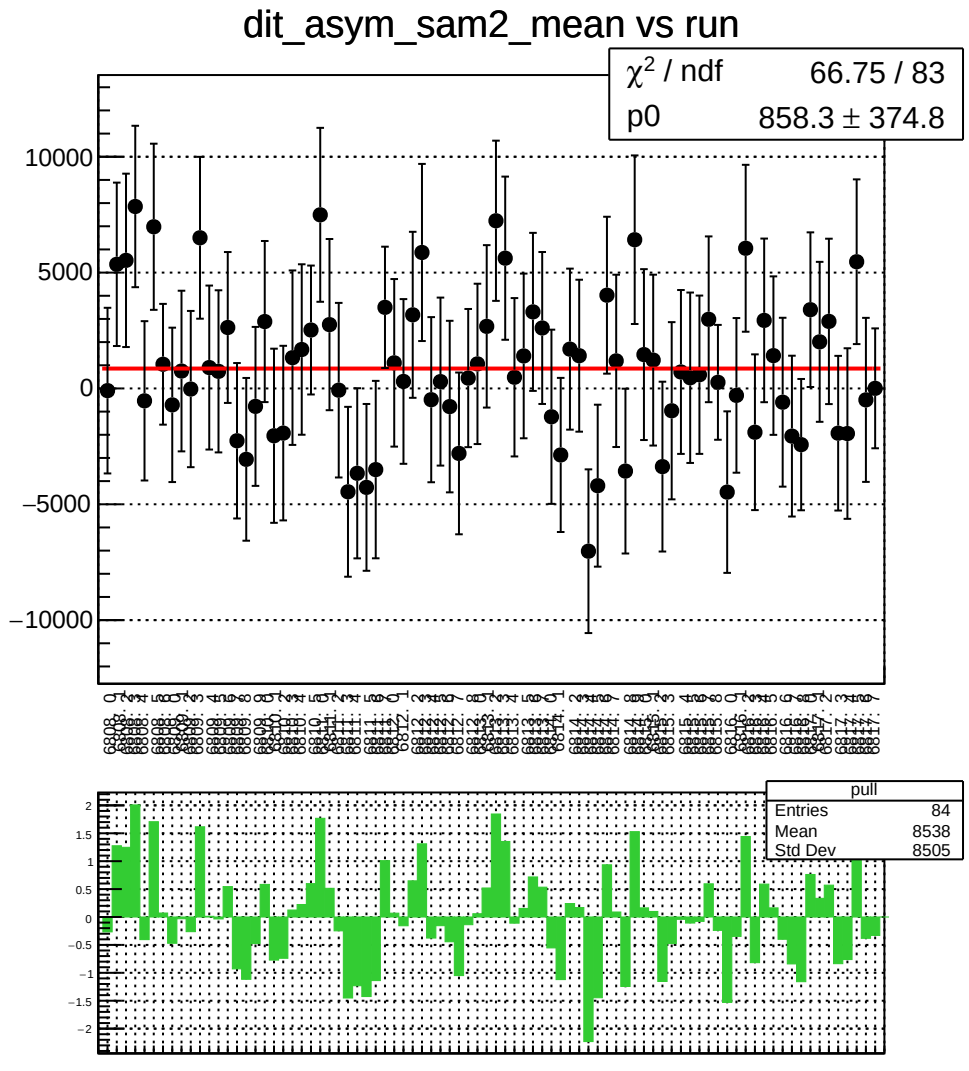

asym_sam1_correction_mean vs run
χ² / ndf 76.87 / 83
p0 324.8 ± 388.2
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 153.7
Std Dev 102.3
2
1
0
−1
−2
pull1D
Entries 84
Mean −0.006664
Std Dev 0.9566
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

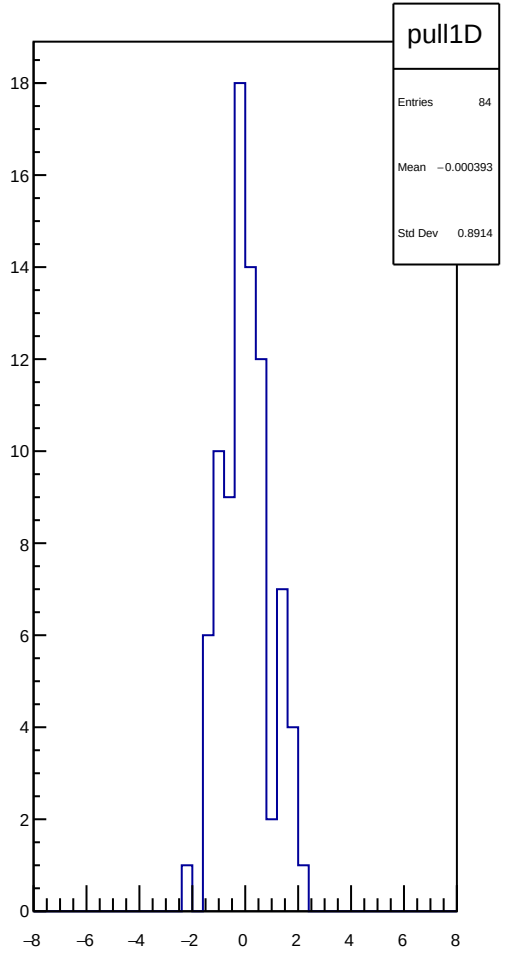

asym_sam1_correction_rms vs run
χ² / ndf 3830 / 83
p0 347.5 ± 0.2745
390
380
370
360
350
340
330
320
310

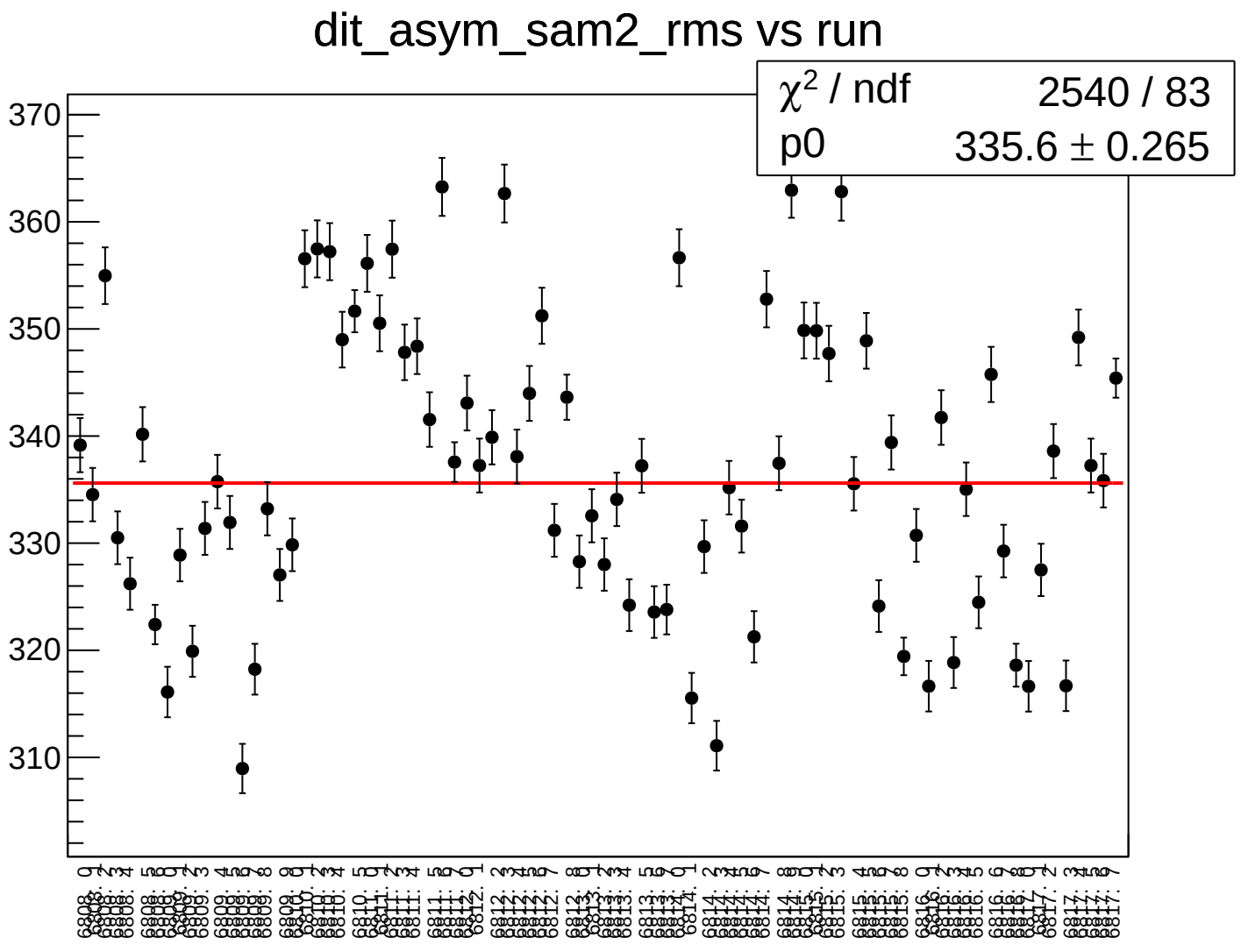

asym_sam1_mean vs run
χ² / ndf 80.58 / 83
p0 −354.4 ± 394.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean 9.631
Std Dev 73.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

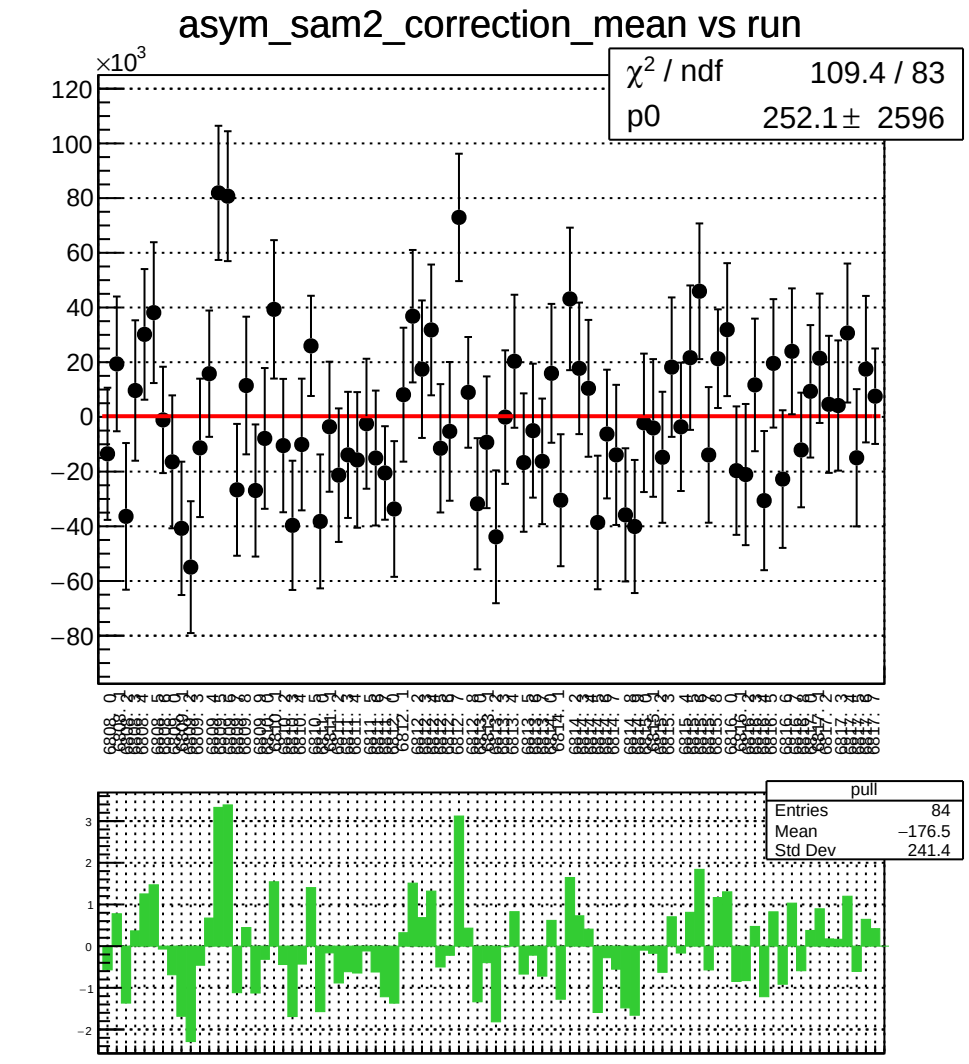

pull1D
Entries 84
Mean 0.006343
Std Dev 0.9794
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

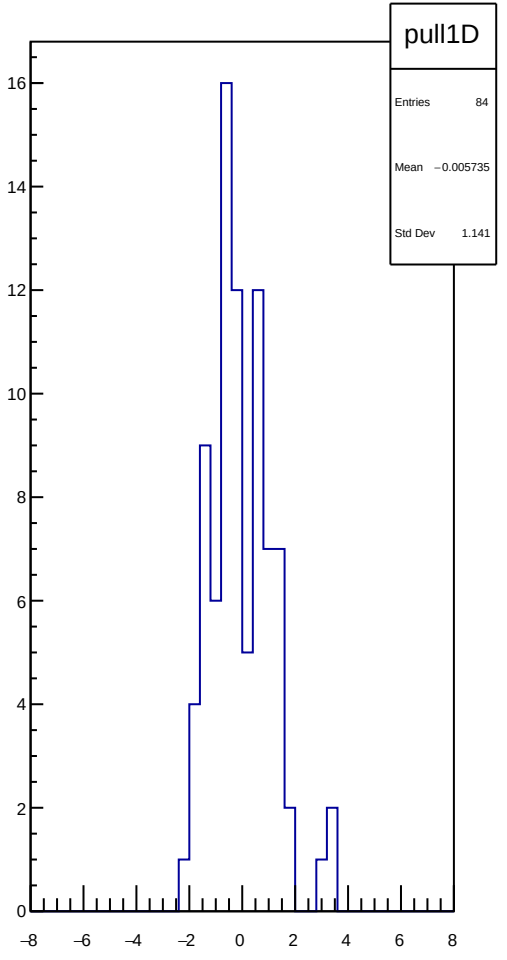

asym_sam1_rms vs run
χ² / ndf 3470 / 83
p0 353.1 ± 0.2789
400
390
380
370
360
350
340
330
320

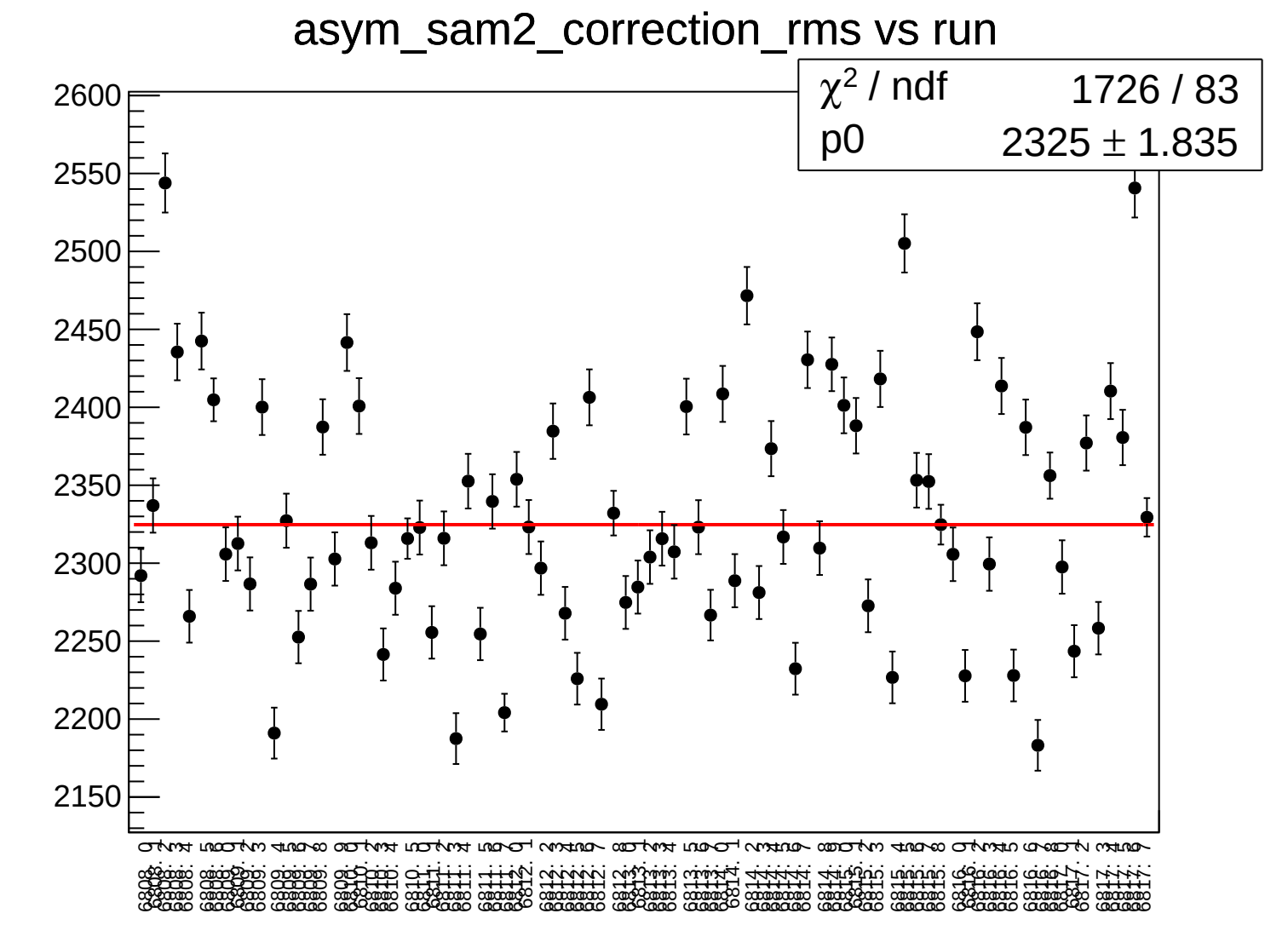

dit_asym_sam2_mean vs run
χ² / ndf 66.75 / 83
p0 858.3 ± 374.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 8538
Std Dev 8505
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

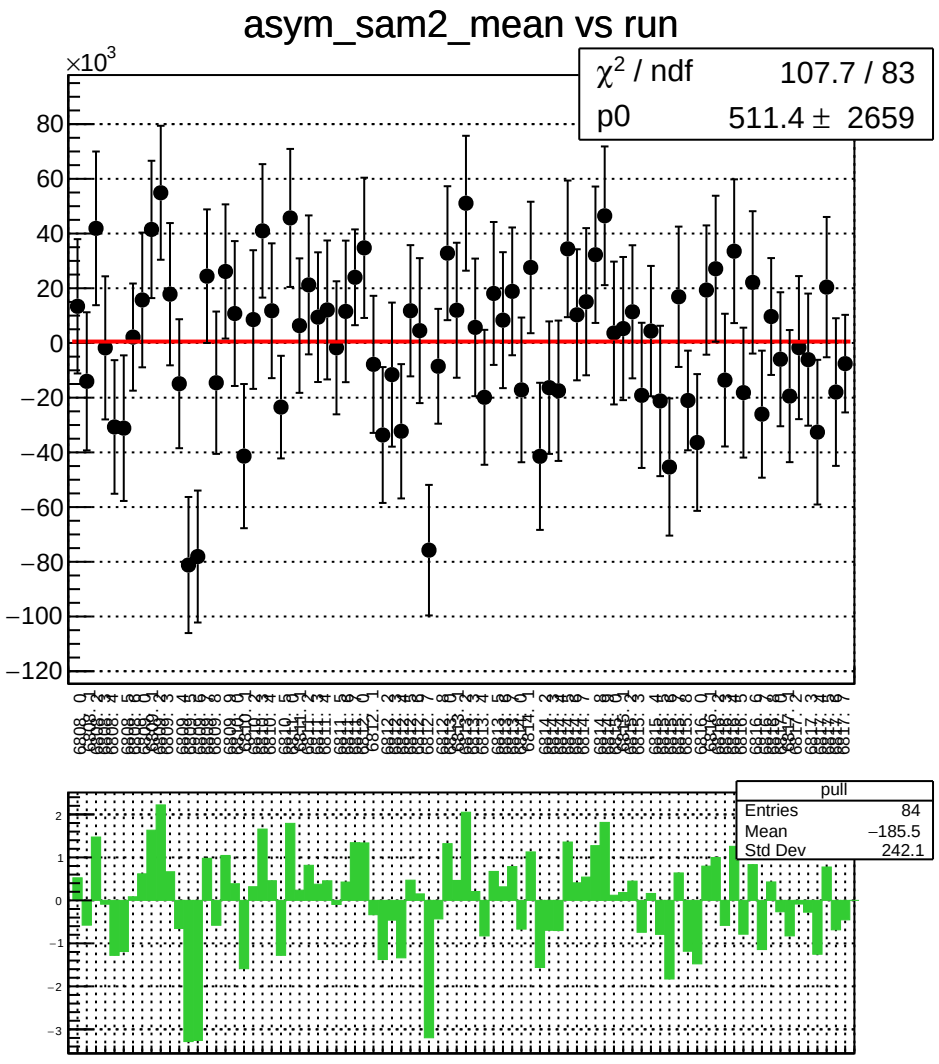

pull1D
Entries 84
Mean −0.000393
Std Dev 0.8914
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

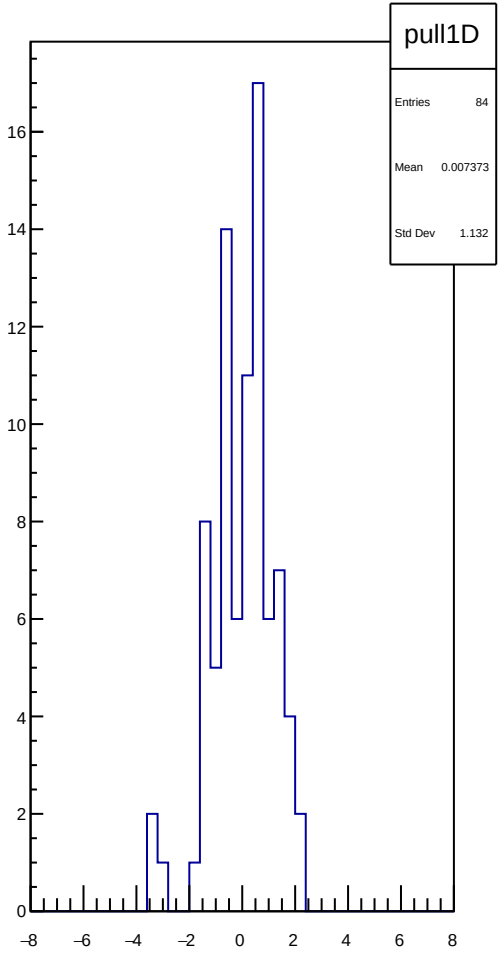

dit_asym_sam2_rms vs run
χ² / ndf 2540 / 83
p0 335.6 ± 0.265
370
360
350
340
330
320
310

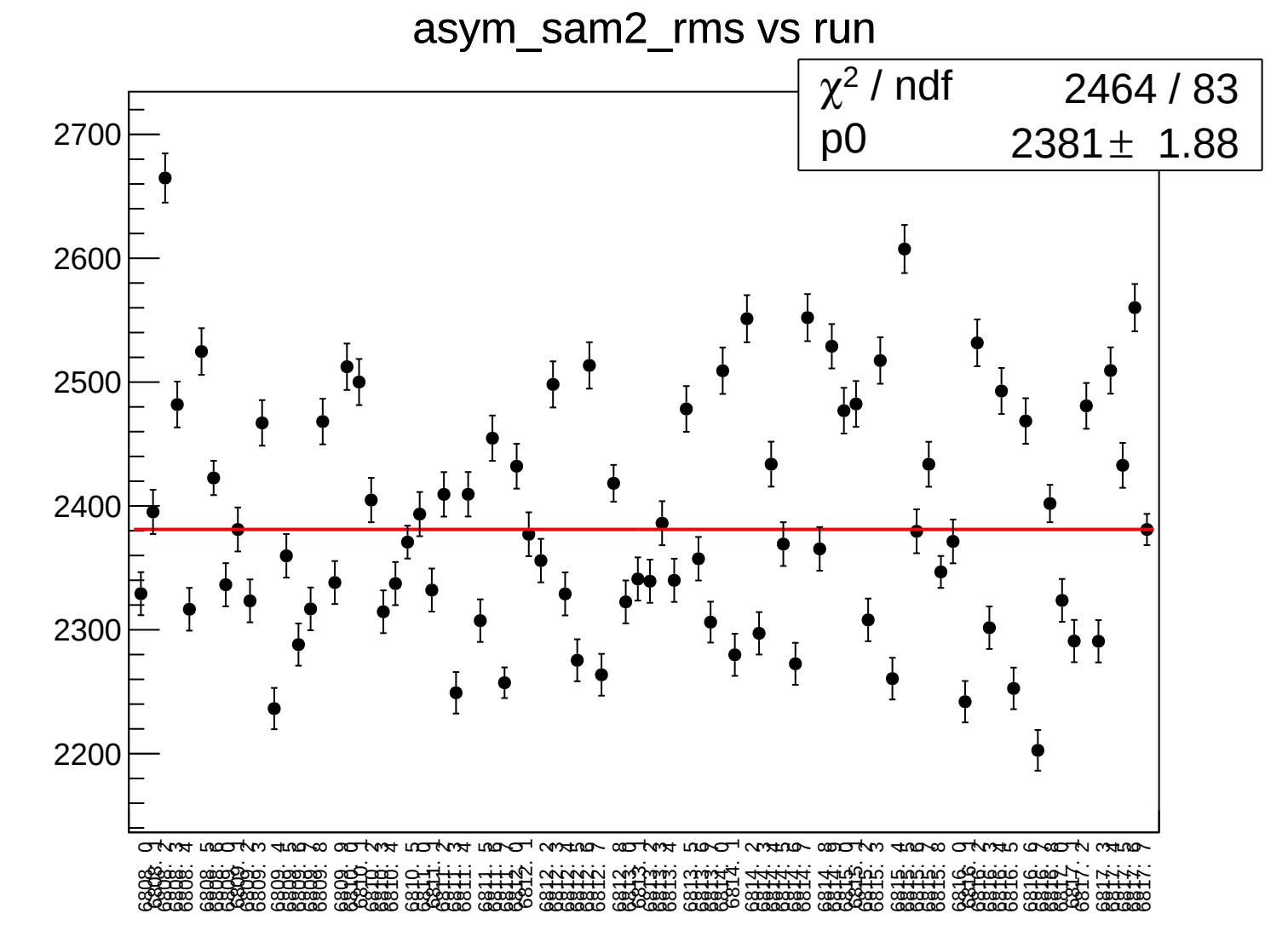

asym_sam2_correction_mean vs run
×10^3
χ^2 / ndf 109.4 / 83
p0 252.1 ± 2596
pull
Entries 84
Mean −176.5
Std Dev 241.4

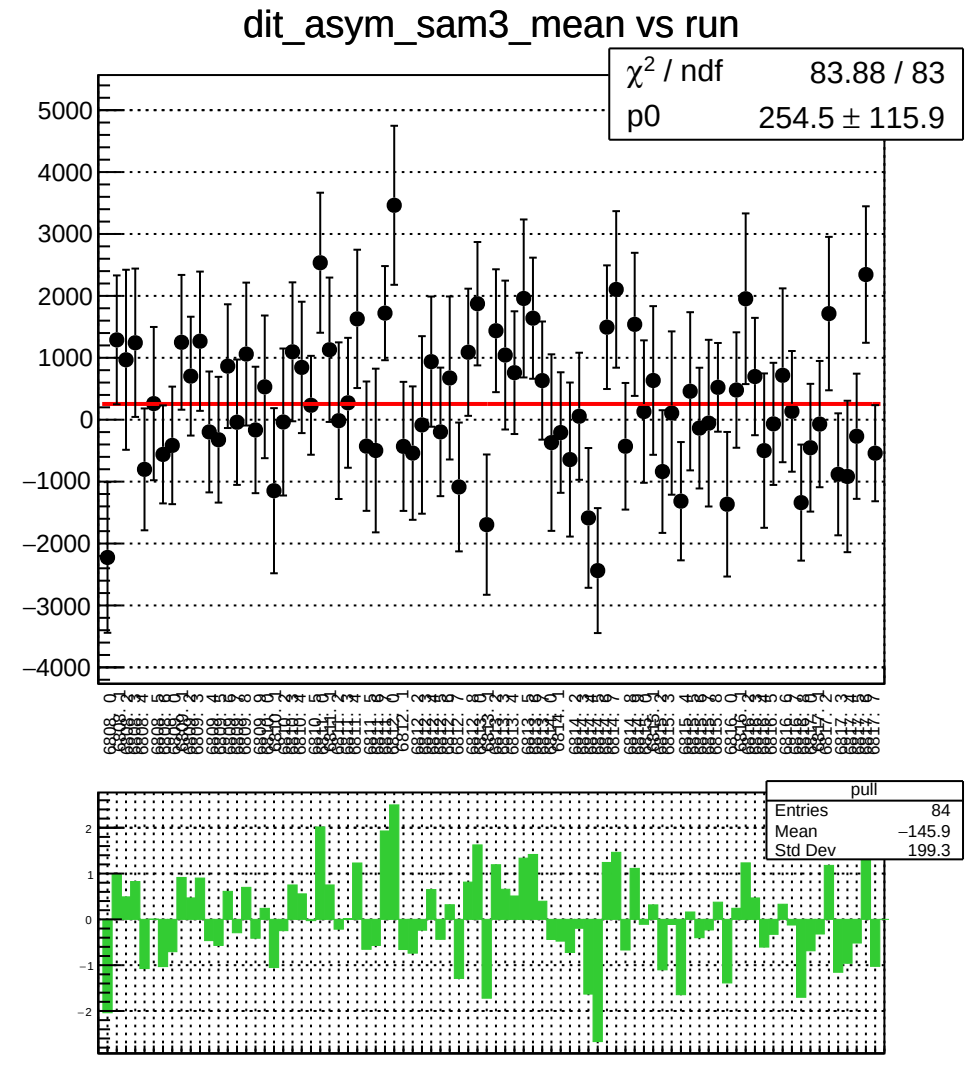

pull1D
Entries 84
Mean −0.005735
Std Dev 1.141

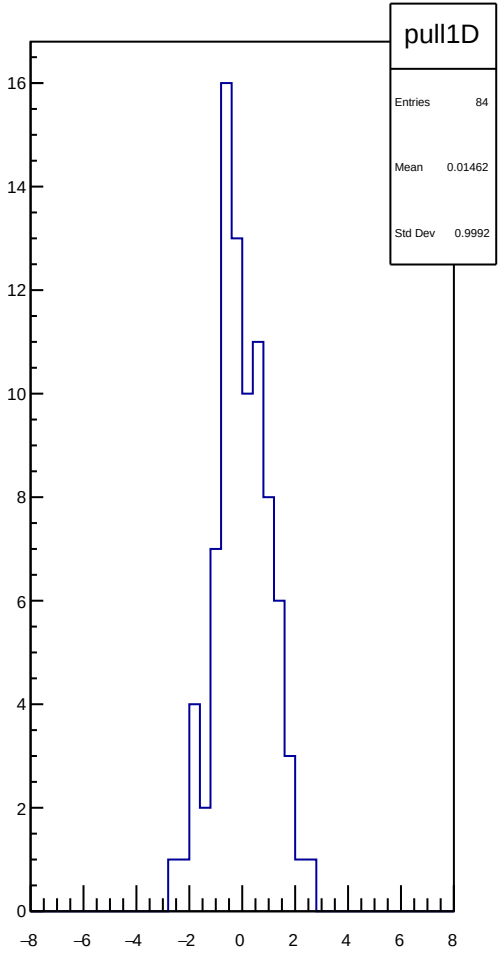

asym_sam2_correction_rms vs run
χ^2 / ndf 1726 / 83
p0 2325 ± 1.835
2600
2550
2500
2450
2400
2350
2300
2250
2200
2150

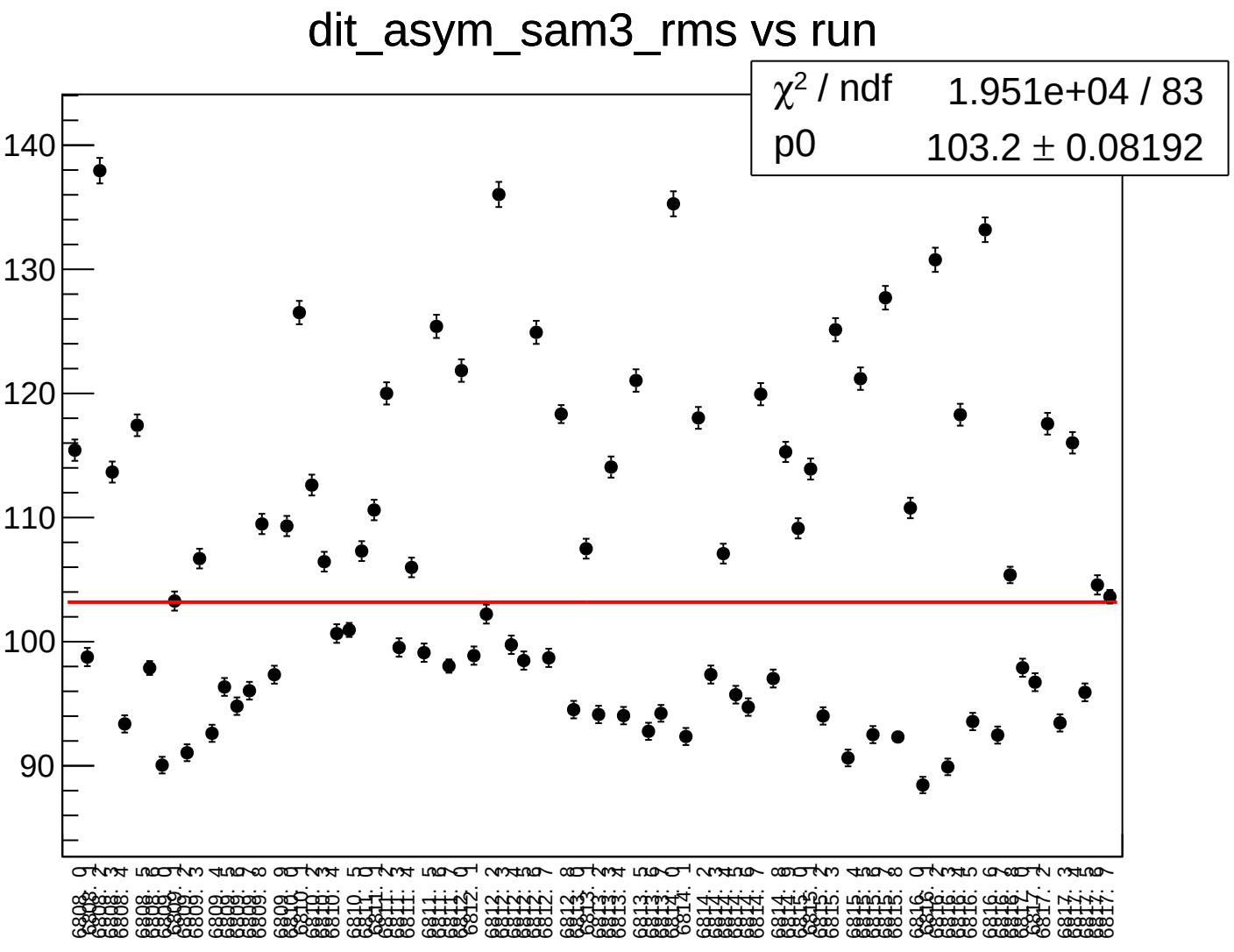

asym_sam2_mean vs run
×10^3
χ^2 / ndf 107.7 / 83
p0 511.4 ± 2659
pull
Entries 84
Mean −185.5
Std Dev 242.1

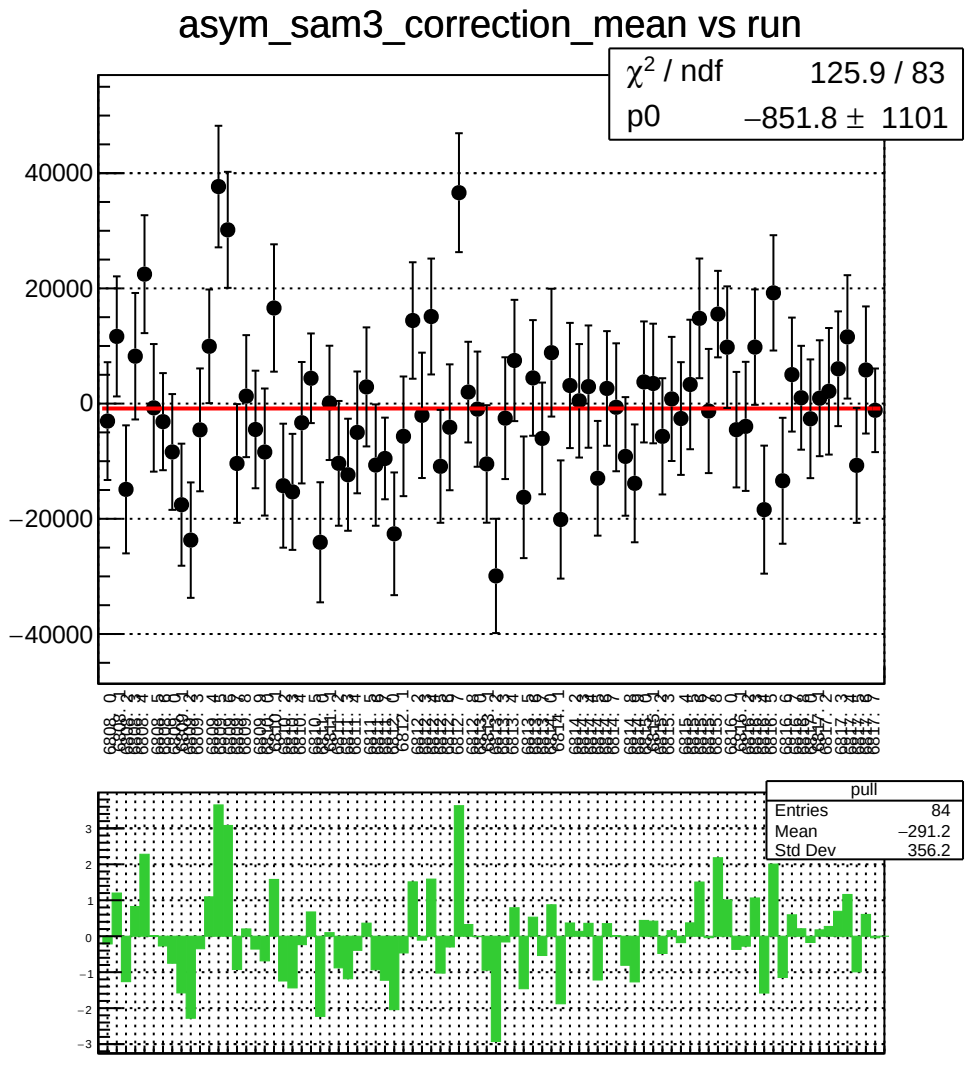

pull1D
Entries 84
Mean 0.007373
Std Dev 1.132

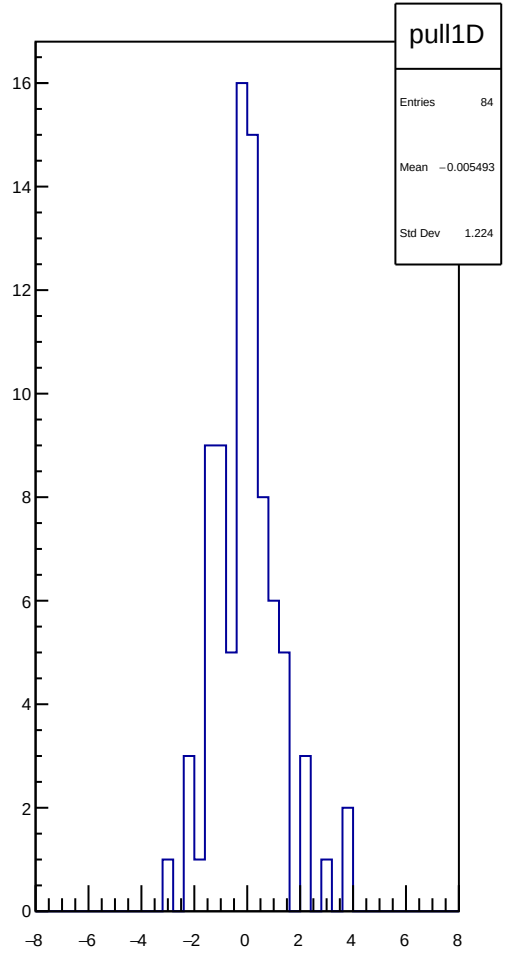

asym_sam2_rms vs run
χ² / ndf 2464 / 83
p0 2381 ± 1.88
2700
2600
2500
2400
2300
2200

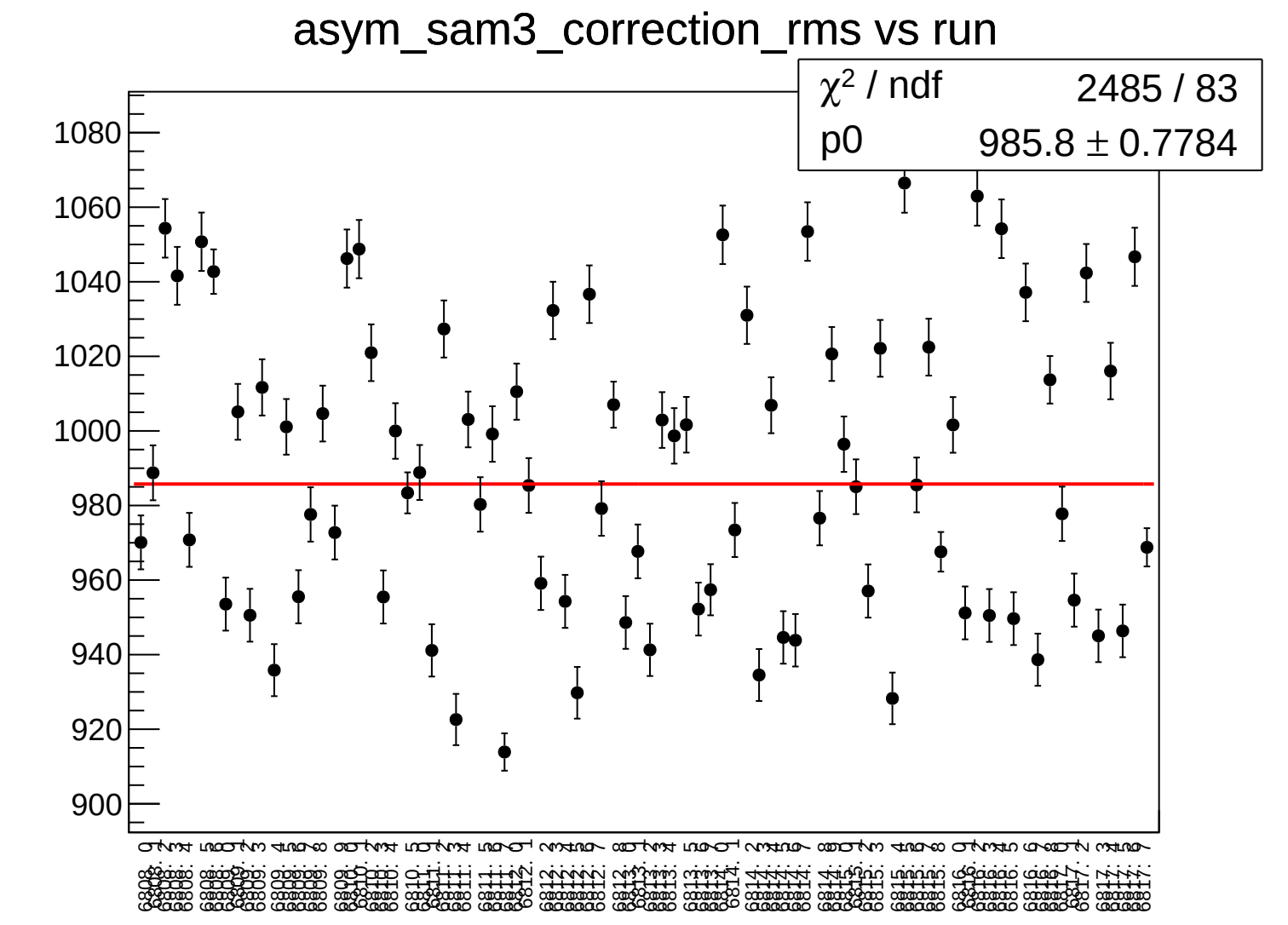

dit_asym_sam3_mean vs run
χ² / ndf 83.88 / 83
p0 254.5 ± 115.9
pull
Entries 84
Mean −145.9
Std Dev 199.3

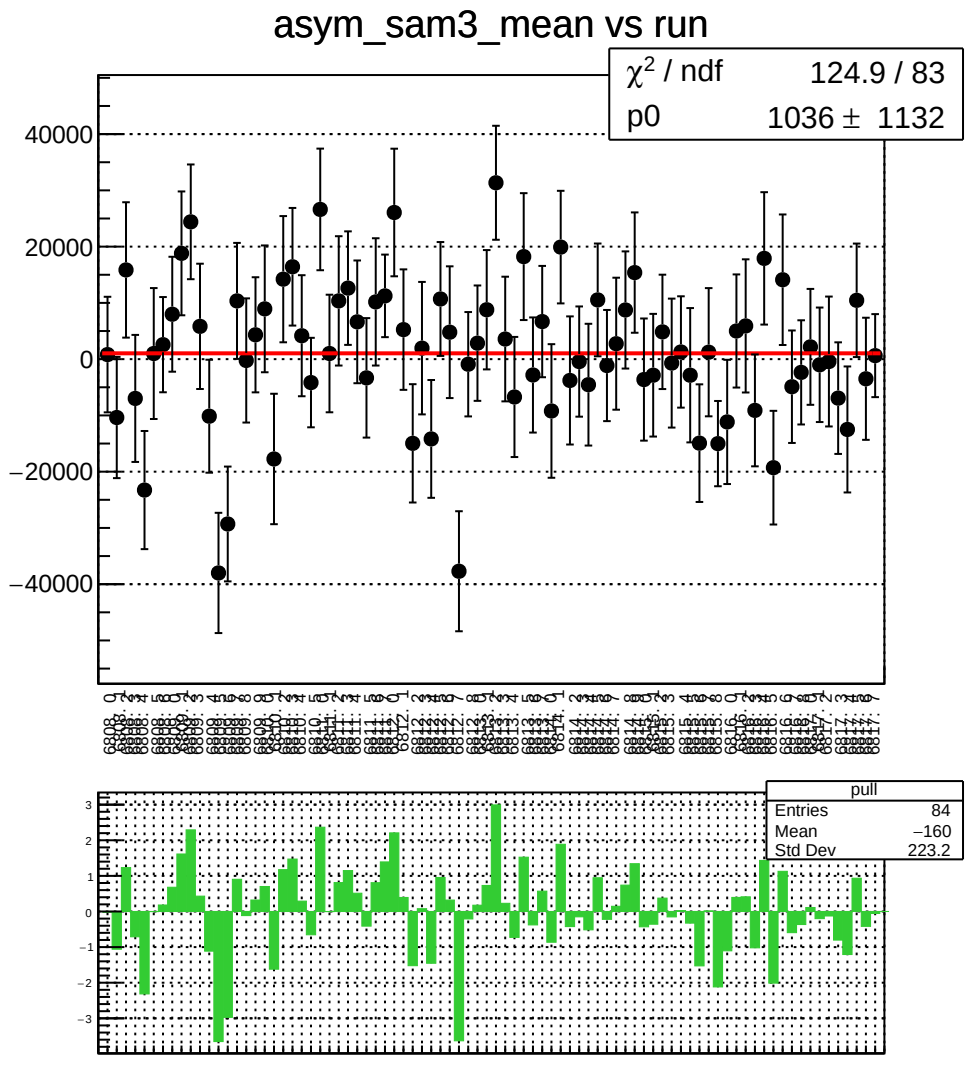

pull1D
Entries 84
Mean 0.01462
Std Dev 0.9992

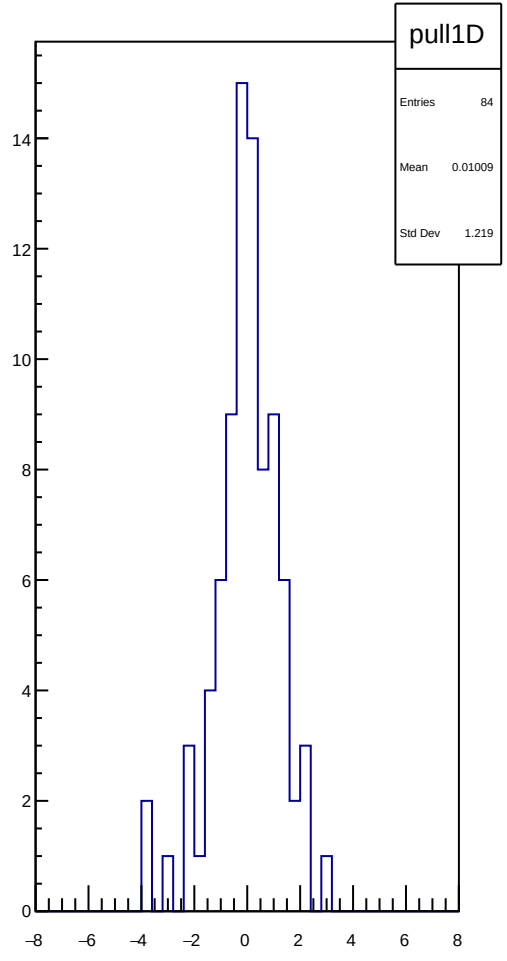

dit_asym_sam3_rms vs run
χ² / ndf 1.951e+04 / 83
p0 103.2 ± 0.08192
140
130
120
110
100
90

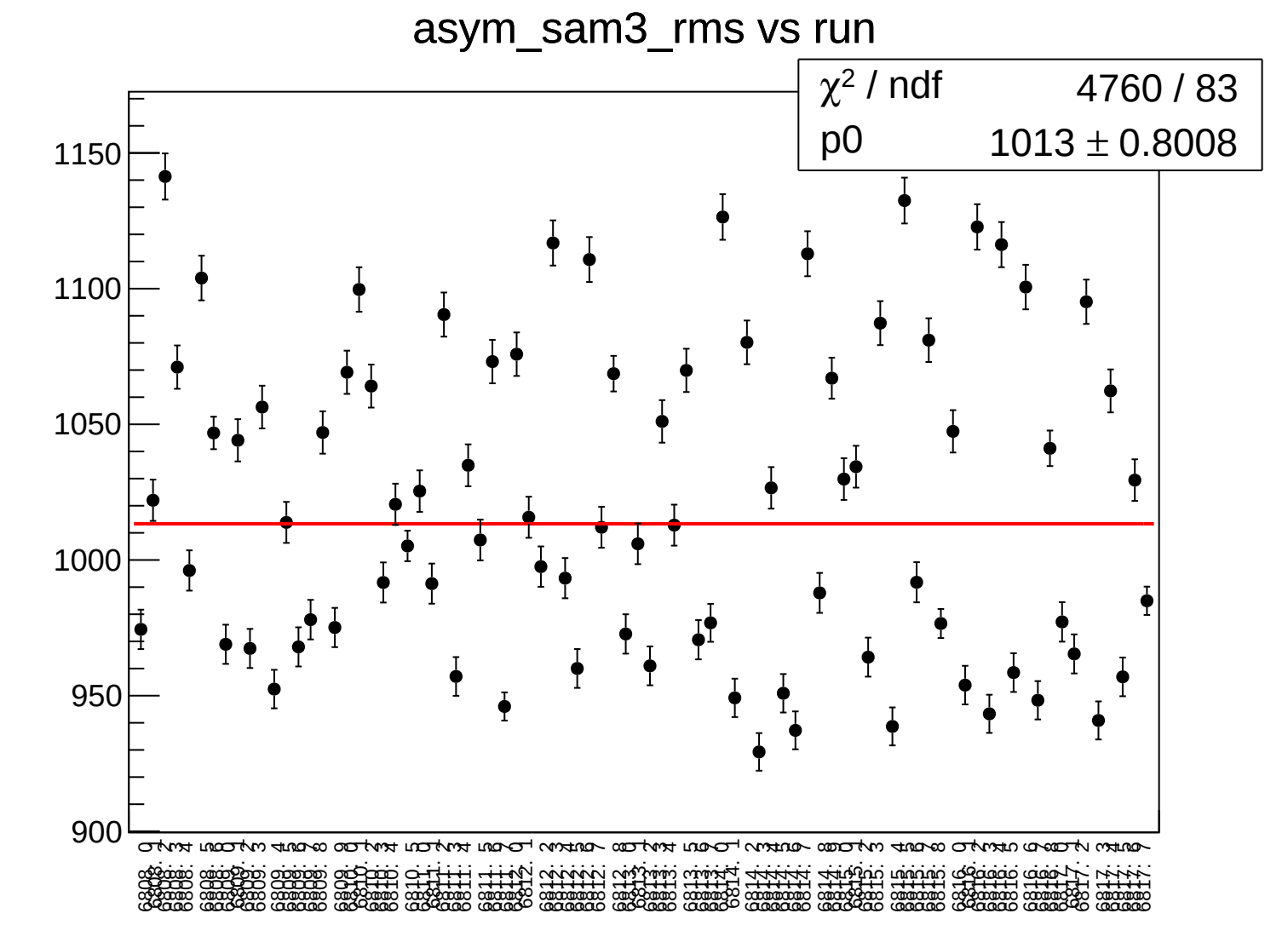

asym_sam3_correction_mean vs run
χ² / ndf 125.9 / 83
p0 −851.8 ± 1101
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −291.2
Std Dev 356.2
3
2
1
0
−1
−2
−3

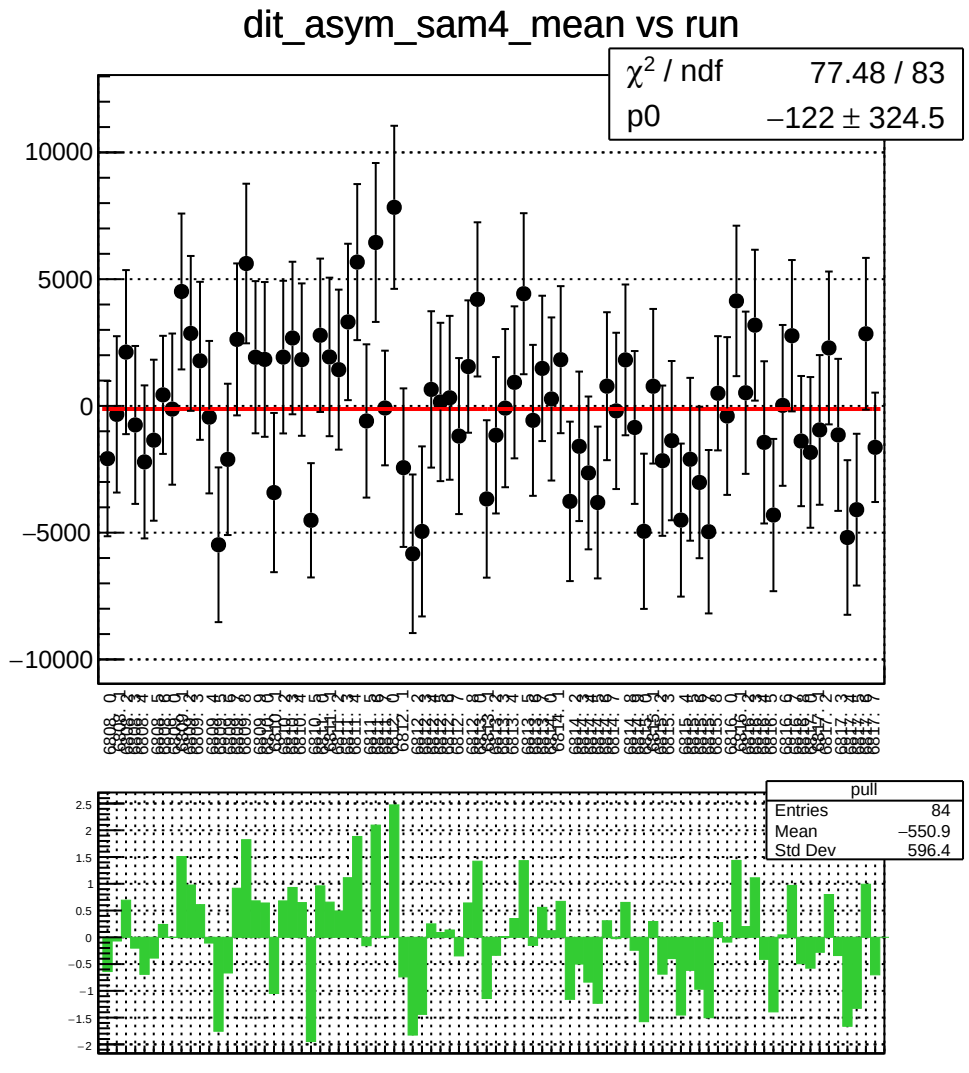

pull1D
Entries 84
Mean −0.005493
Std Dev 1.224
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

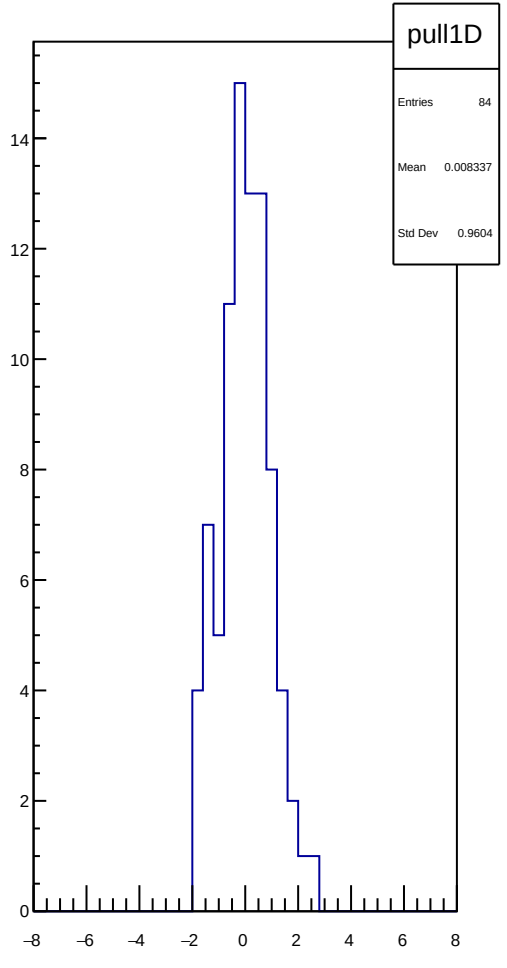

asym_sam3_correction_rms vs run
χ² / ndf 2485 / 83
p0 985.8 ± 0.7784
1080
1060
1040
1020
1000
980
960
940
920
900

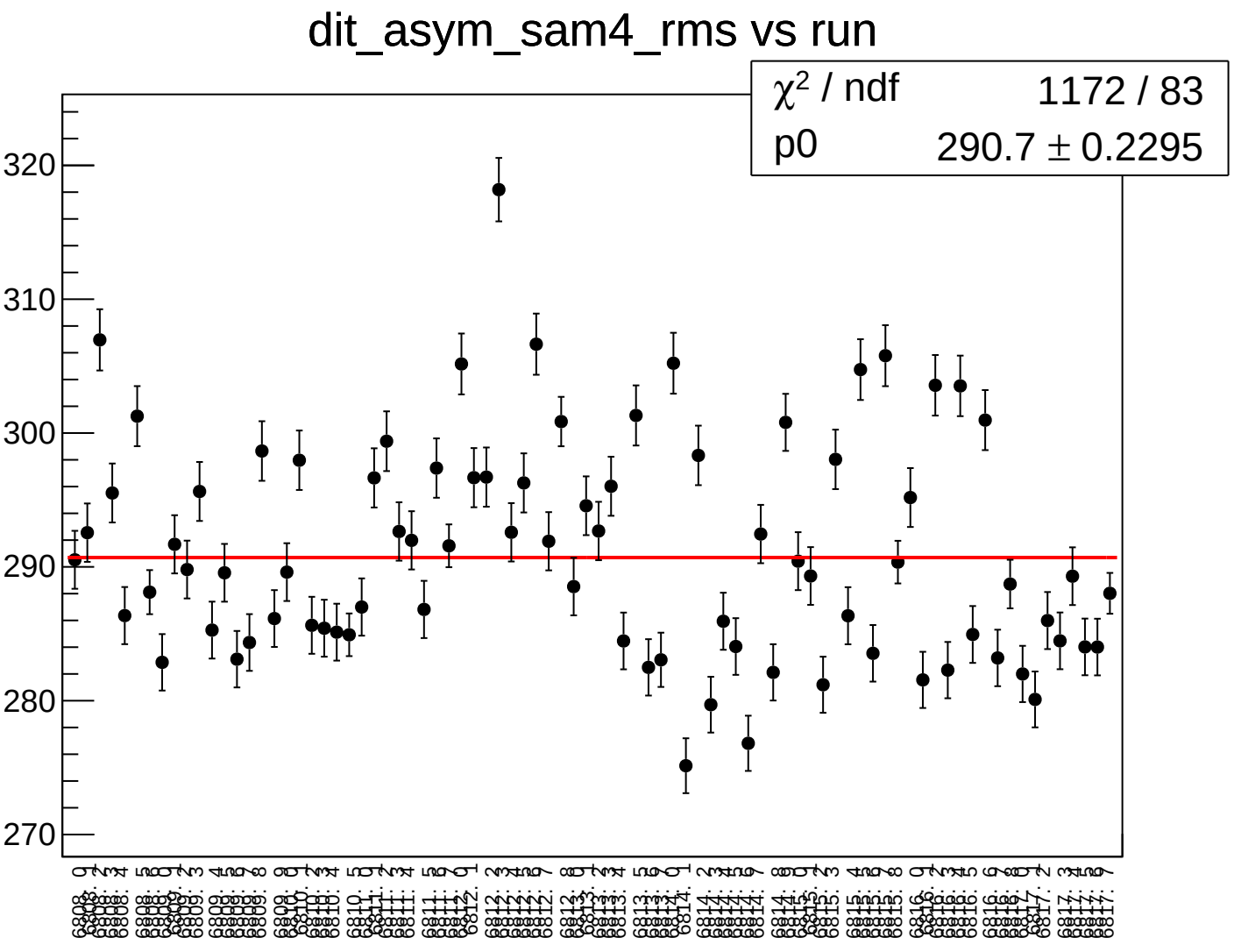

asym_sam3_mean vs run
χ² / ndf 124.9 / 83
p0 1036 ± 1132
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −160
Std Dev 223.2
3
2
1
0
−1
−2
−3

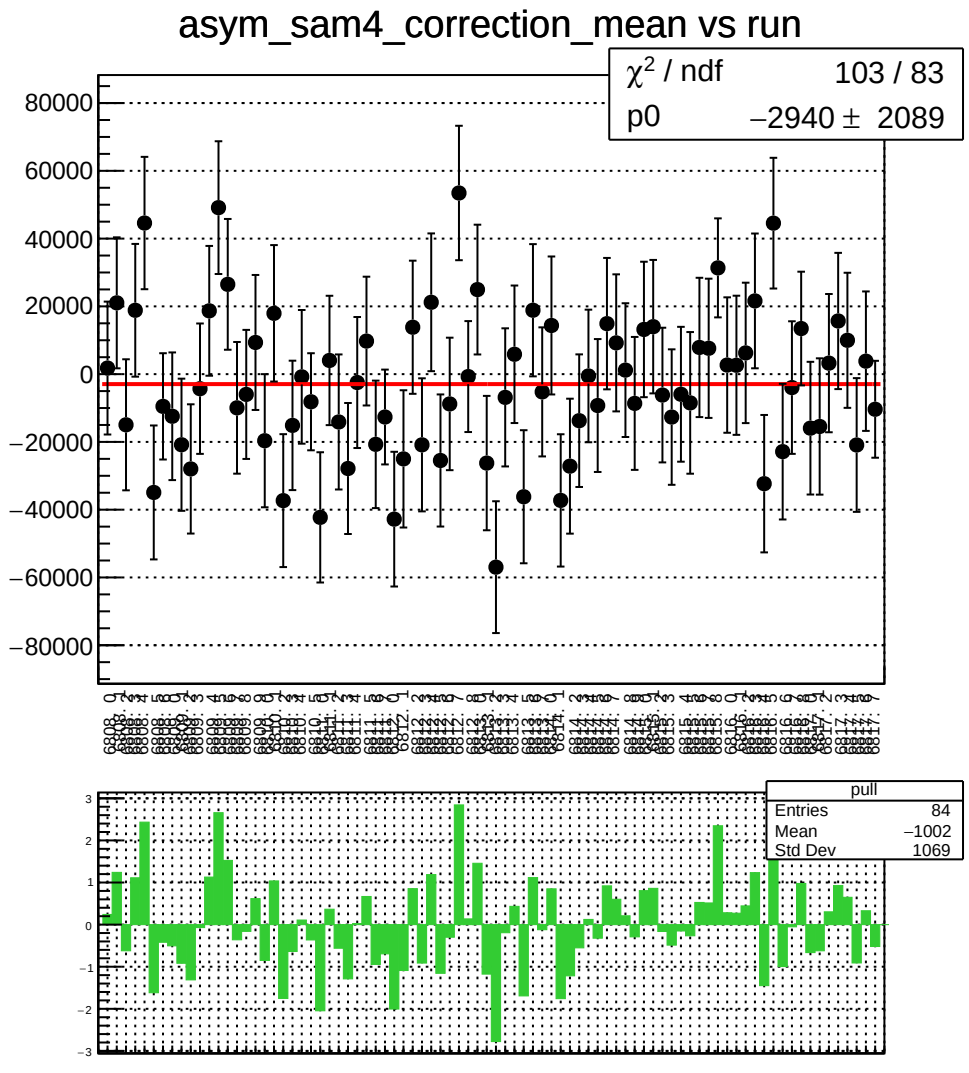

pull1D
Entries 84
Mean 0.01009
Std Dev 1.219
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

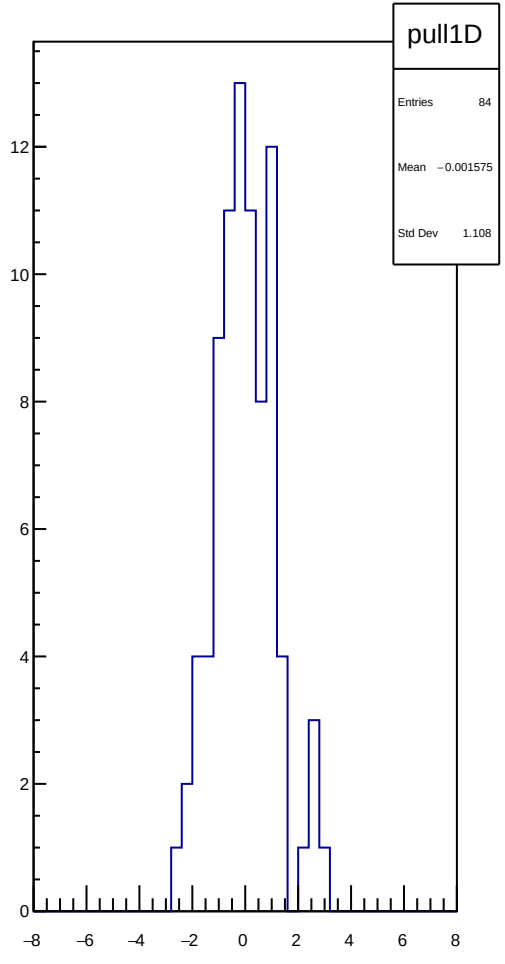

asym_sam3_rms vs run
χ² / ndf 4760 / 83
p0 1013 ± 0.8008
1150
1100
1050
1000
950
900

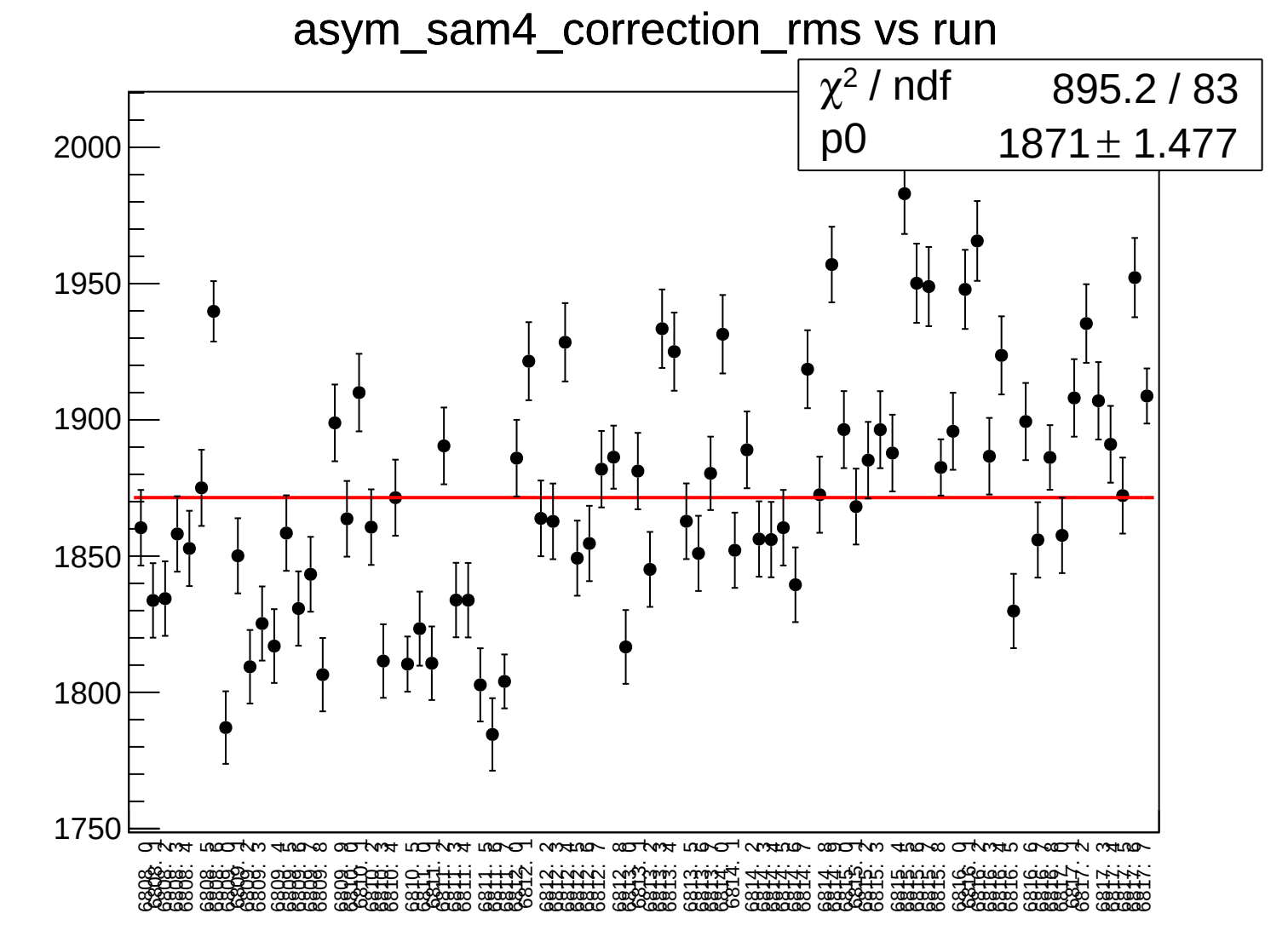

dit_asym_sam4_mean vs run
χ² / ndf 77.48 / 83
p0 −122 ± 324.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −550.9
Std Dev 596.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

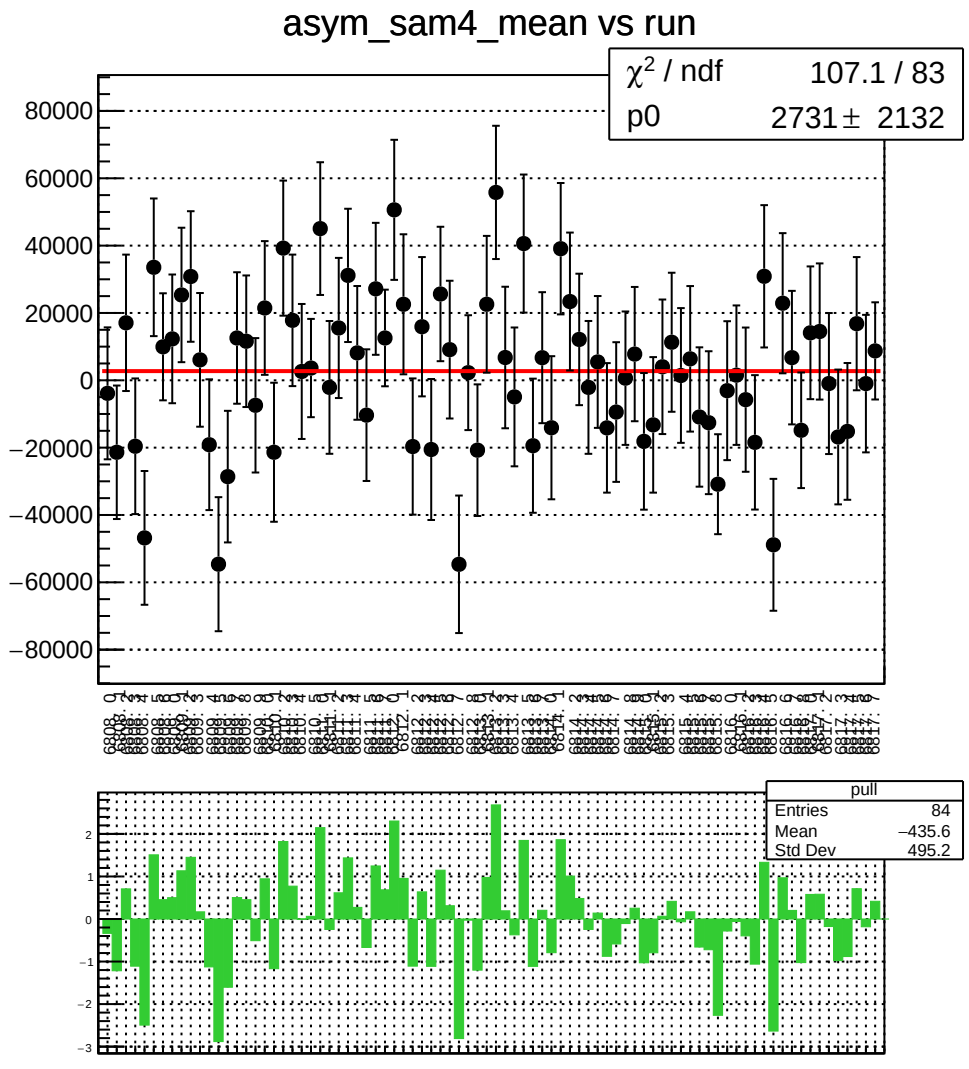

pull1D
Entries 84
Mean 0.008337
Std Dev 0.9604
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

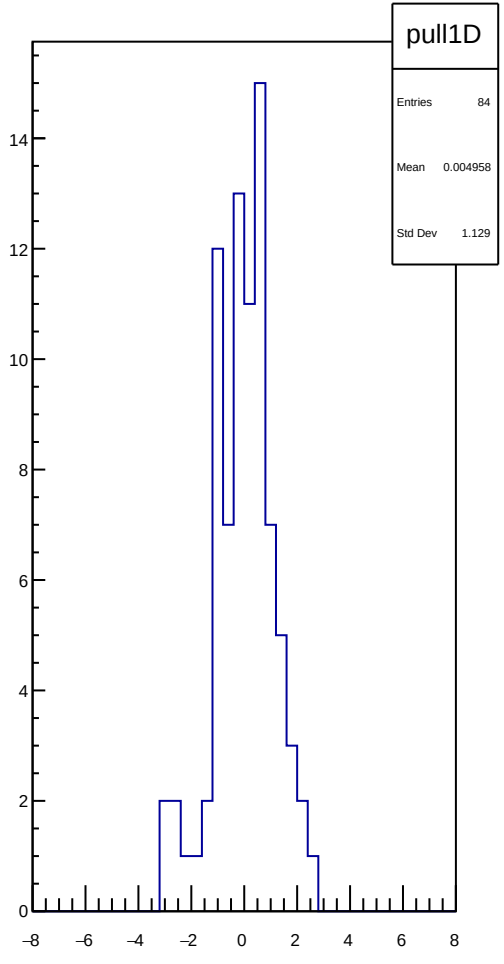

dit_asym_sam4_rms vs run
χ² / ndf 1172 / 83
p0 290.7 ± 0.2295
320
310
300
290
280
270

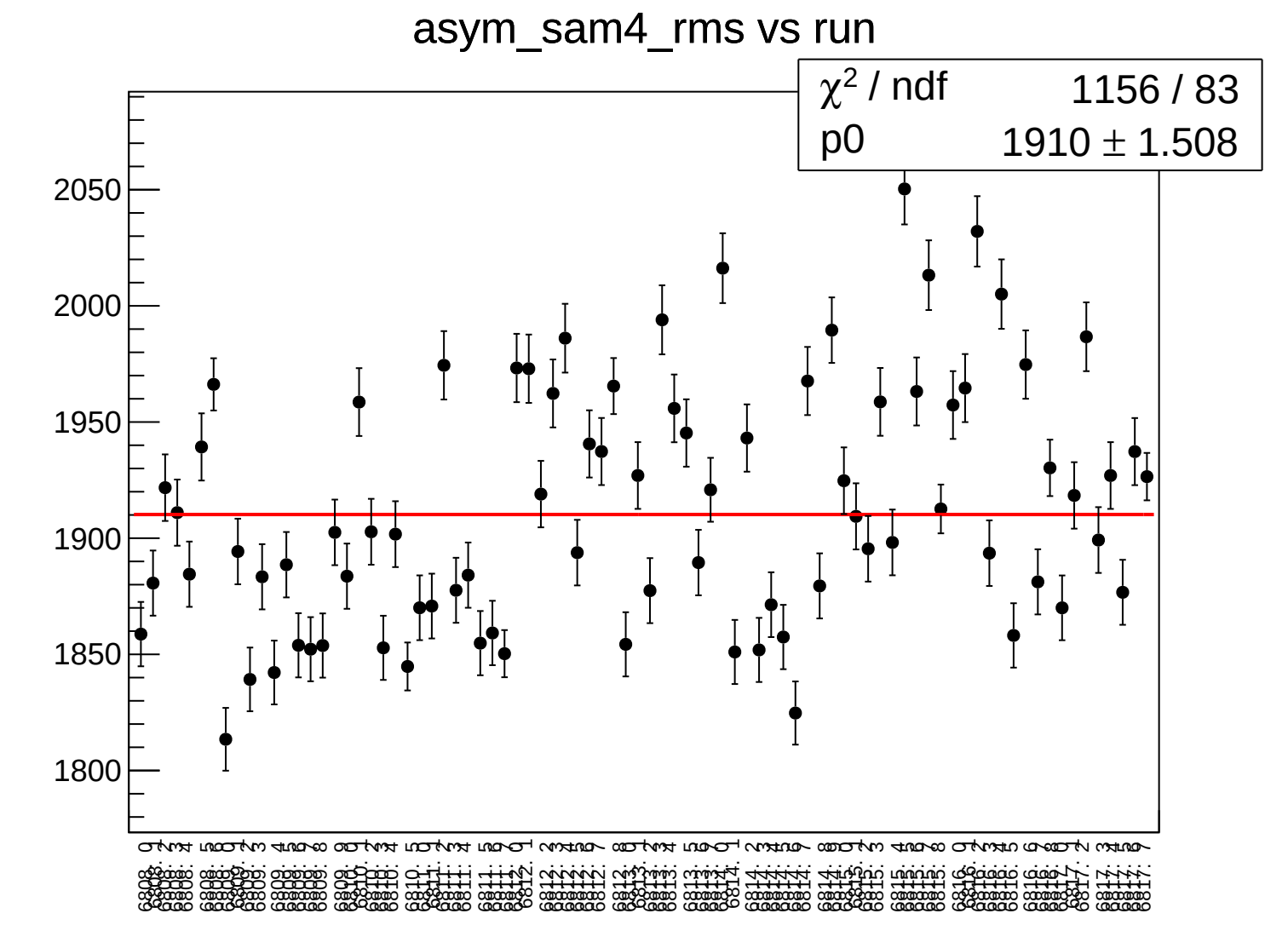

asym_sam4_correction_mean vs run
χ² / ndf 103 / 83
p0 −2940 ± 2089
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −1002
Std Dev 1069
3
2
1
0
−1
−2
−3

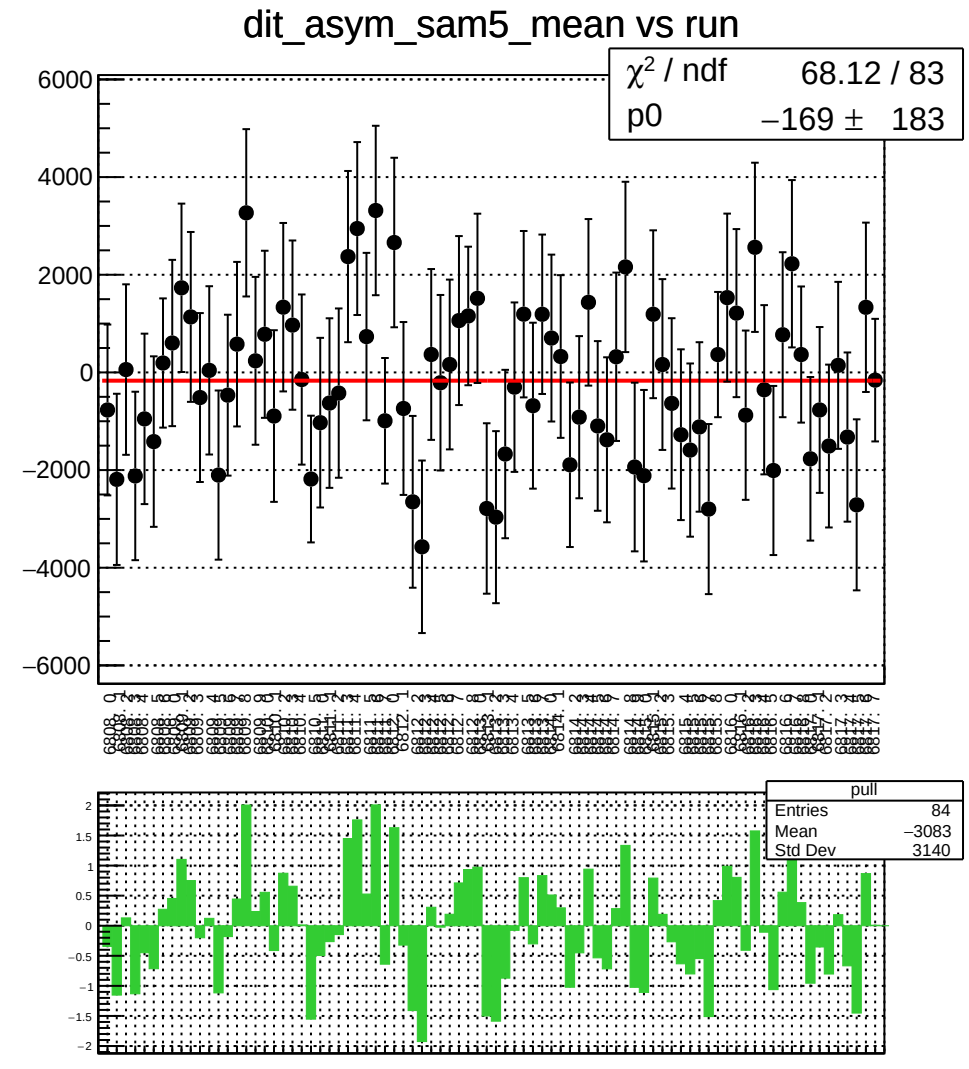

pull1D
Entries 84
Mean −0.001575
Std Dev 1.108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

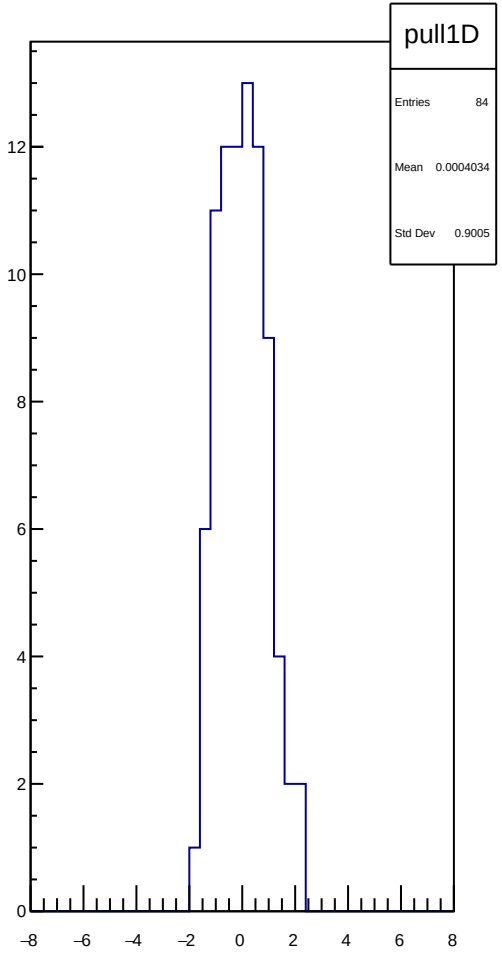

asym_sam4_correction_rms vs run
χ^2 / ndf 895.2 / 83
p0 1871 ± 1.477
2000
1950
1900
1850
1800
1750

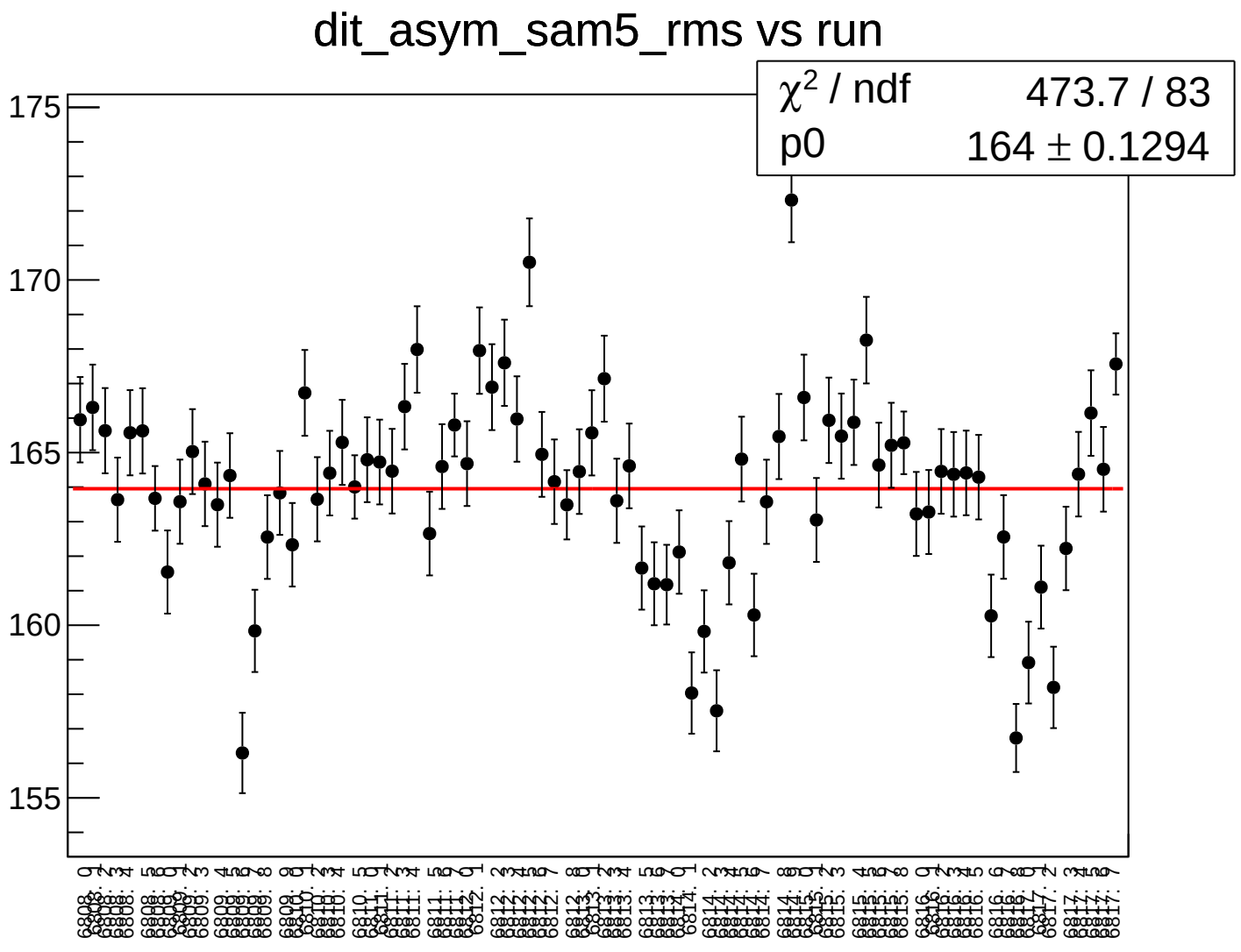

asym_sam4_mean vs run
χ² / ndf 107.1 / 83
p0 2731 ± 2132
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 84
Mean −435.6
Std Dev 495.2
2
1
0
−1
−2
−3

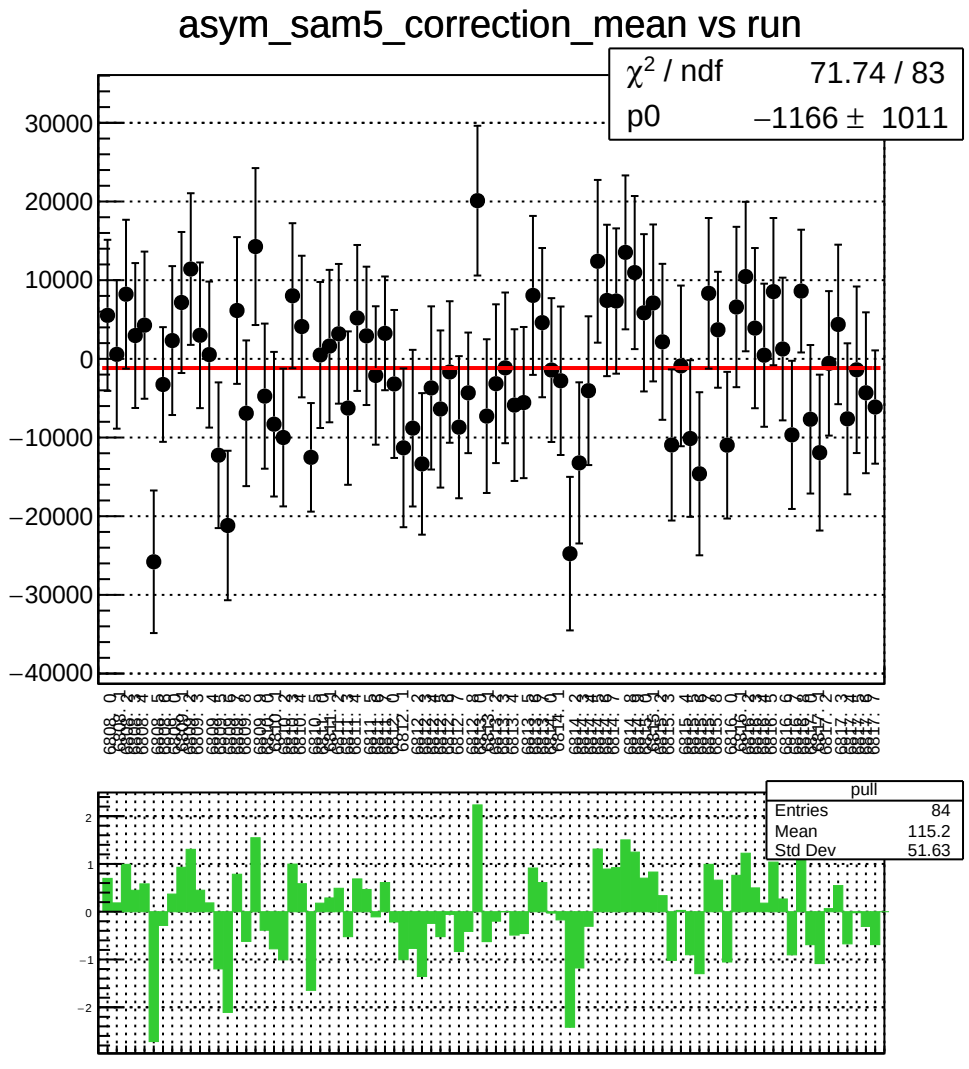

pull1D
Entries 84
Mean 0.004958
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

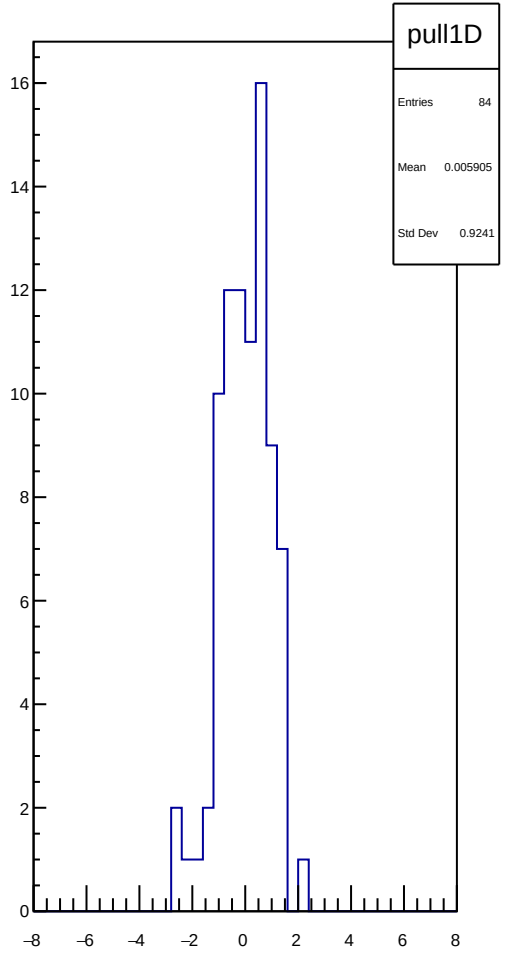

asym_sam4_rms vs run
χ^2 / ndf 1156 / 83
p0 1910 ± 1.508
2050
2000
1950
1900
1850
1800

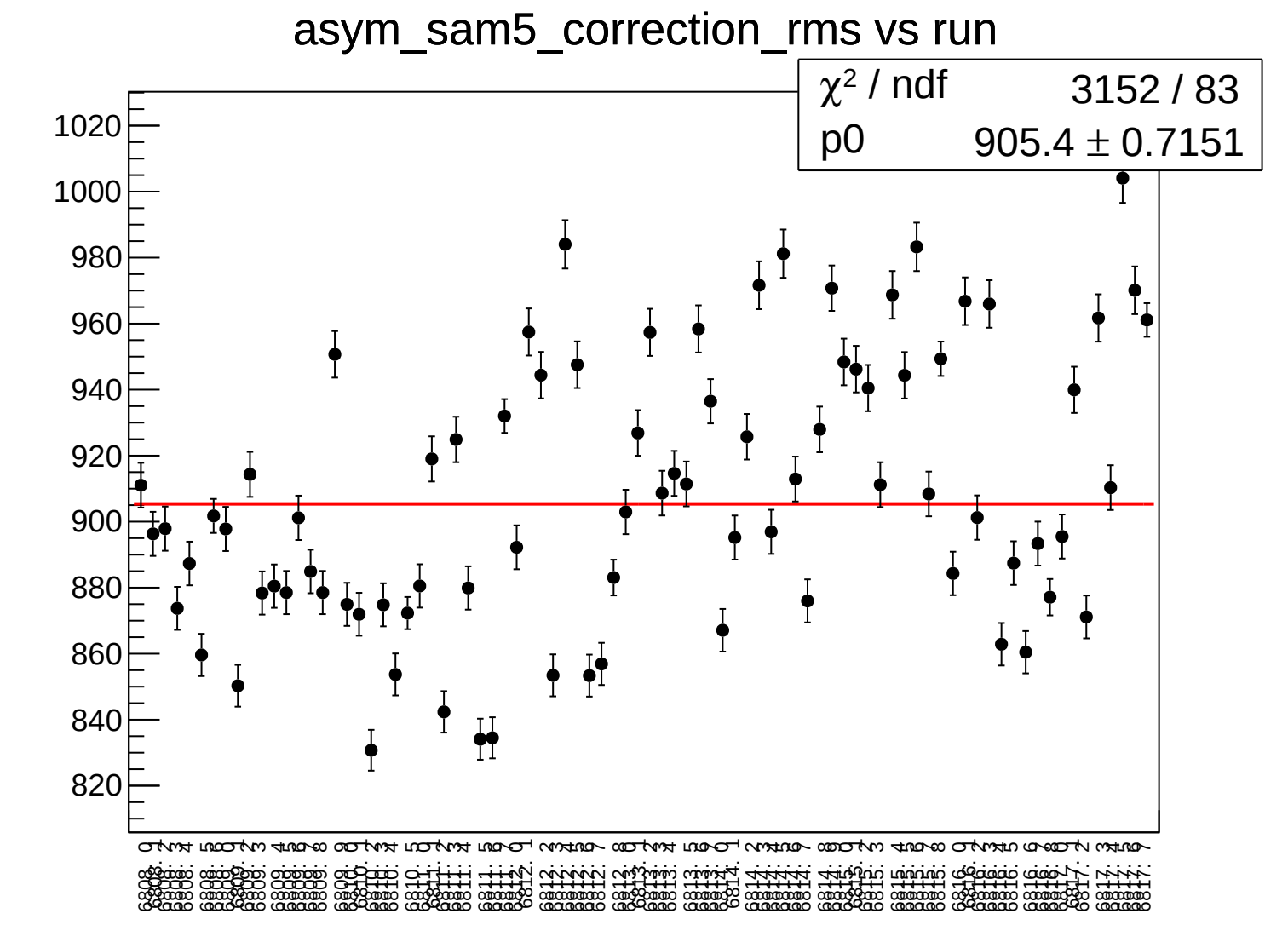

dit_asym_sam5_mean vs run
χ² / ndf 68.12 / 83
p0 −169 ± 183
pull
Entries 84
Mean −3083
Std Dev 3140

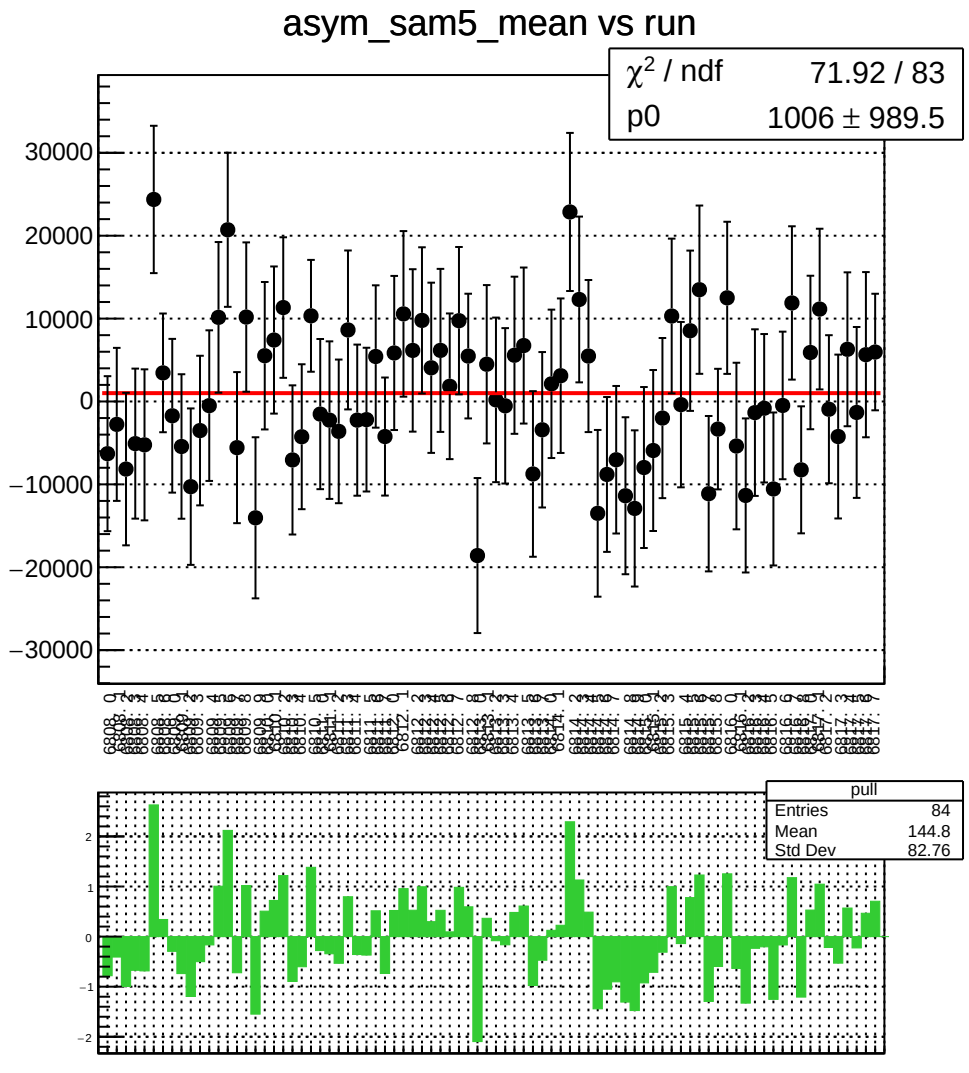

pull1D
Entries 84
Mean 0.0004034
Std Dev 0.9005

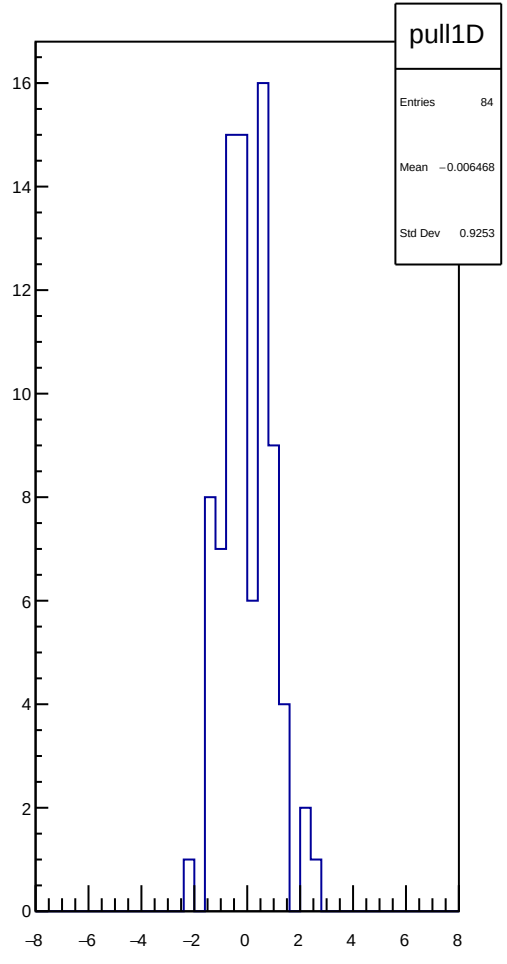

dit_asym_sam5_rms vs run
χ^2 / ndf 473.7 / 83
p0 164 ± 0.1294
175
170
165
160
155

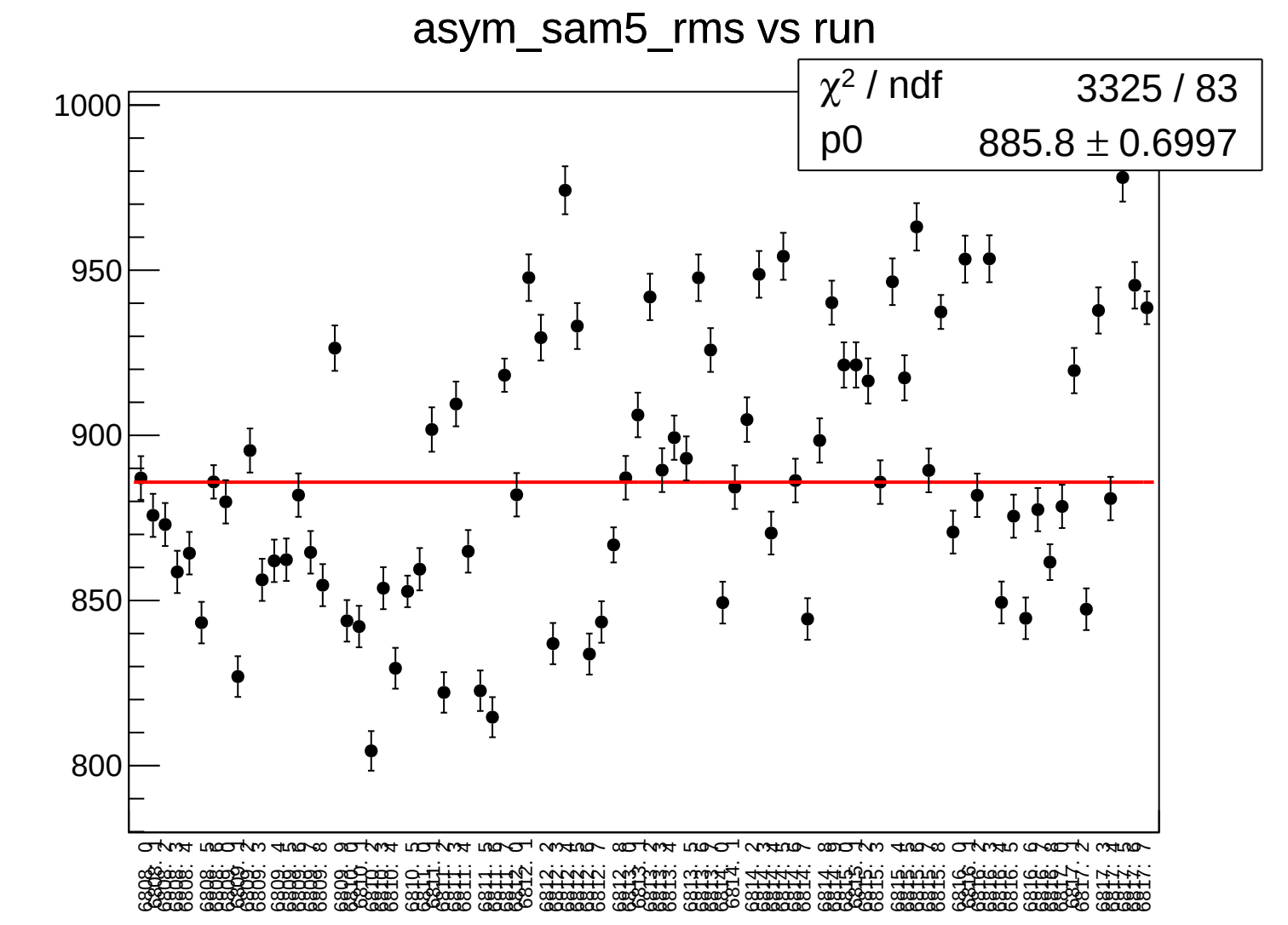

asym_sam5_correction_mean vs run
χ² / ndf 71.74 / 83
p0 −1166 ± 1011
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean 115.2
Std Dev 51.63
2
1
0
−1
−2

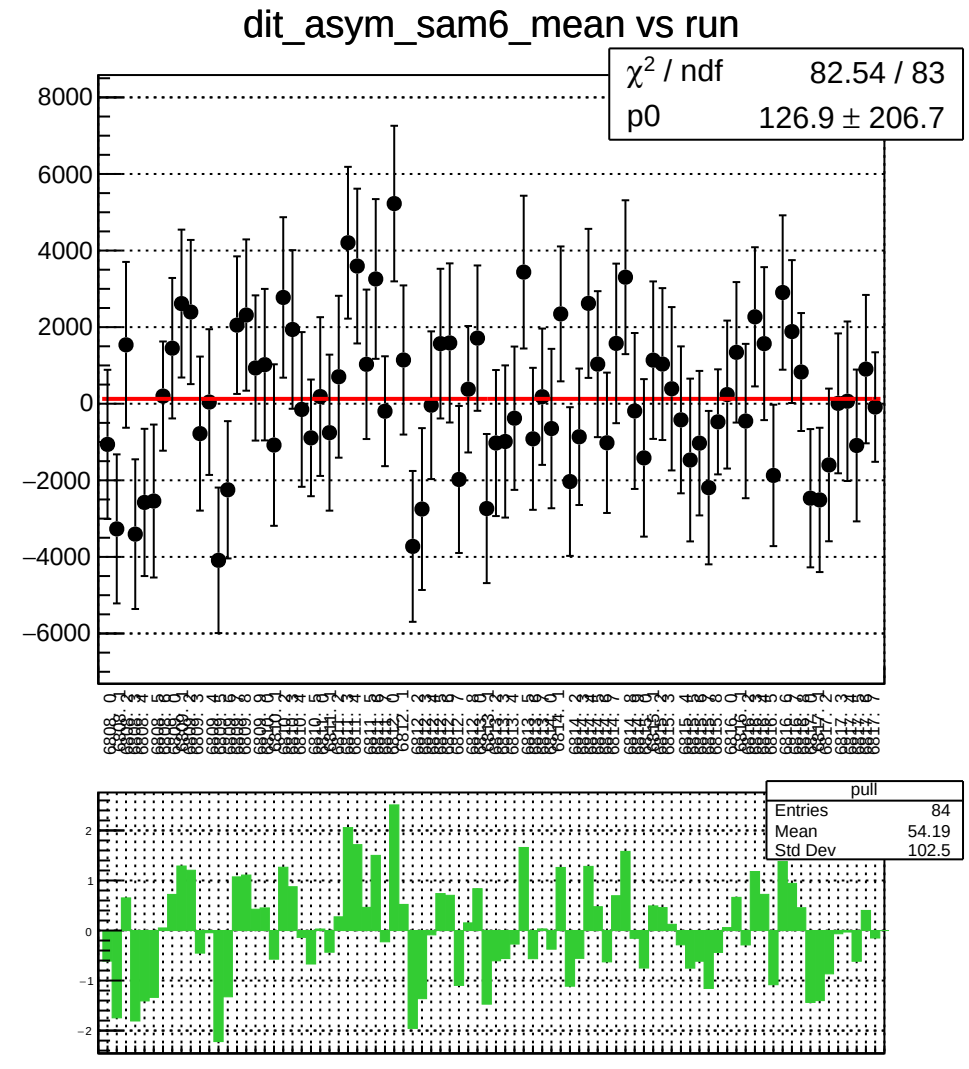

pull1D
Entries 84
Mean 0.005905
Std Dev 0.9241
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

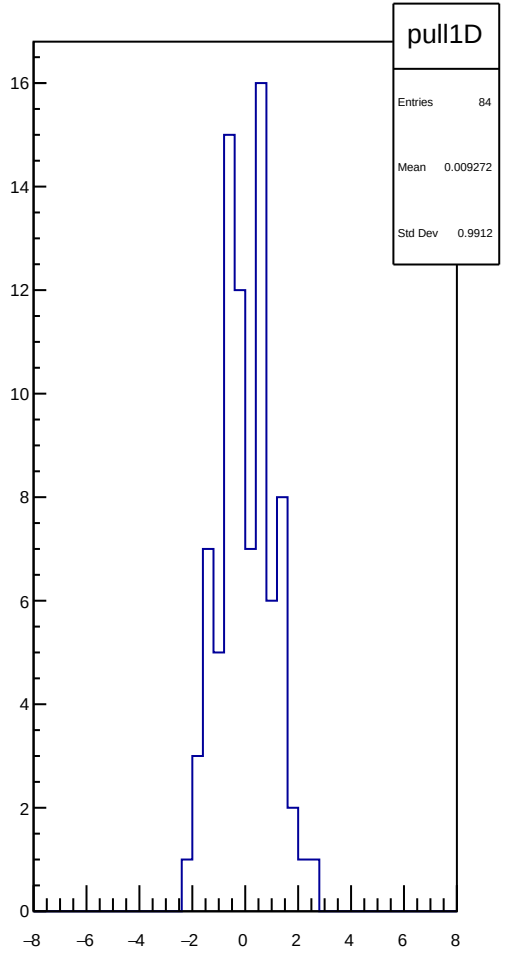

asym_sam5_correction_rms vs run
χ² / ndf 3152 / 83
p0 905.4 ± 0.7151
1020
1000
980
960
940
920
900
880
860
840
820

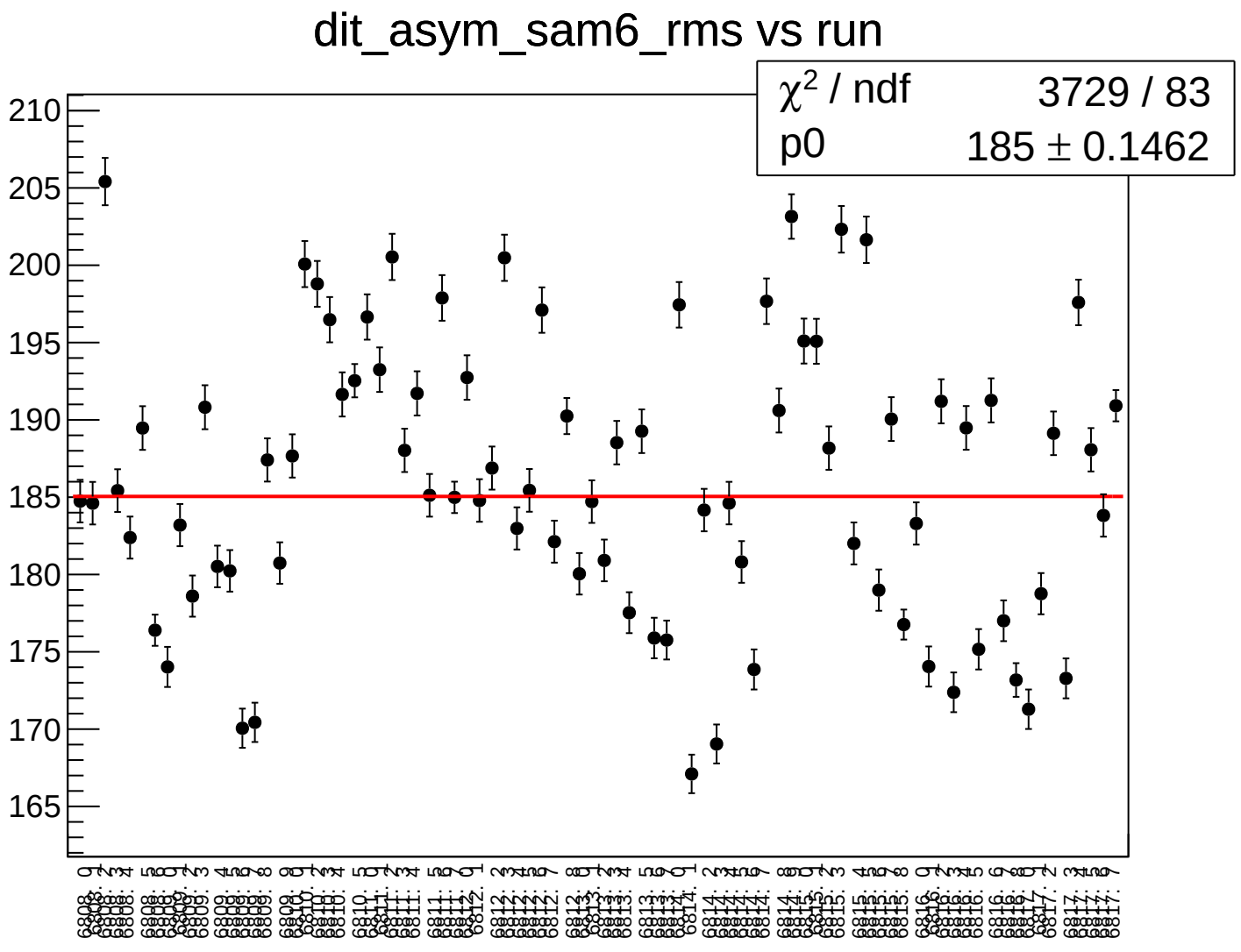

asym_sam5_mean vs run
χ² / ndf 71.92 / 83
p0 1006 ± 989.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean 144.8
Std Dev 82.76
2
1
0
−1
−2

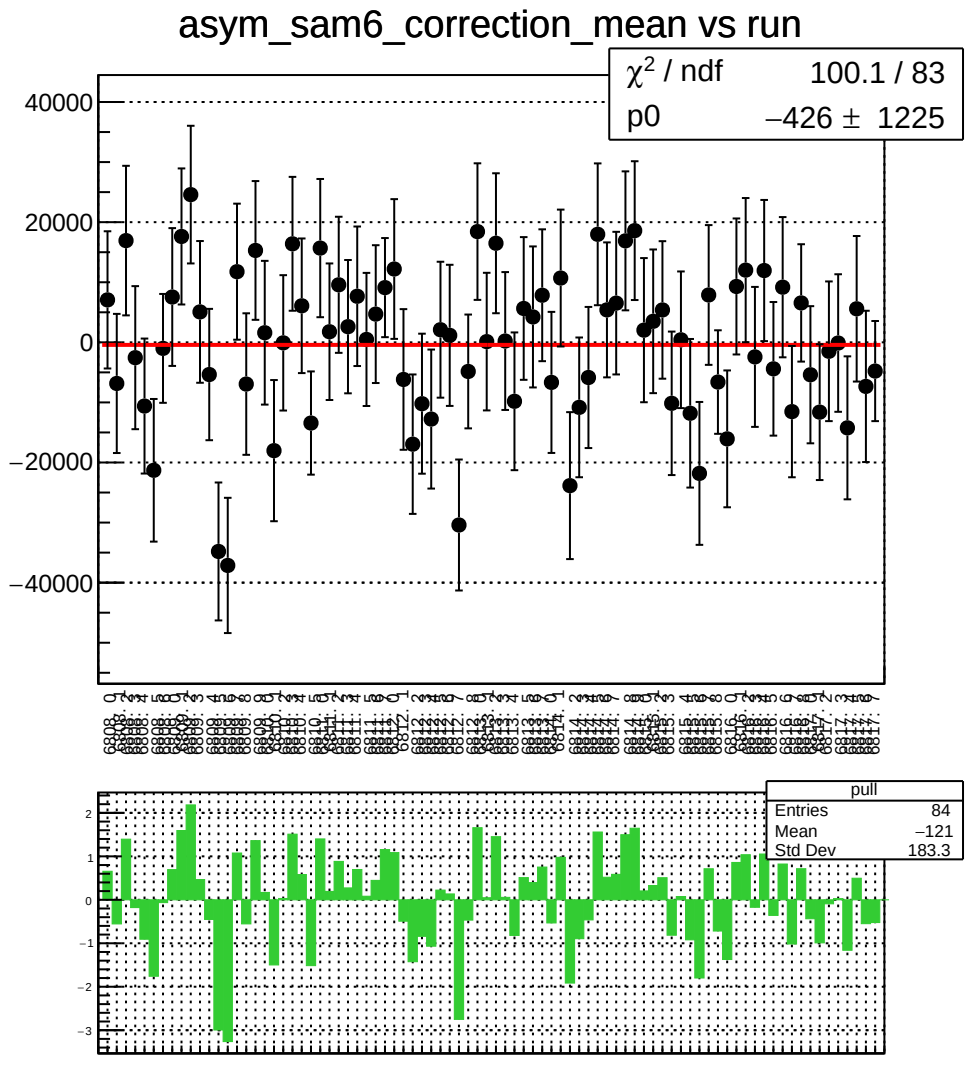

pull1D
Entries 84
Mean −0.006468
Std Dev 0.9253
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

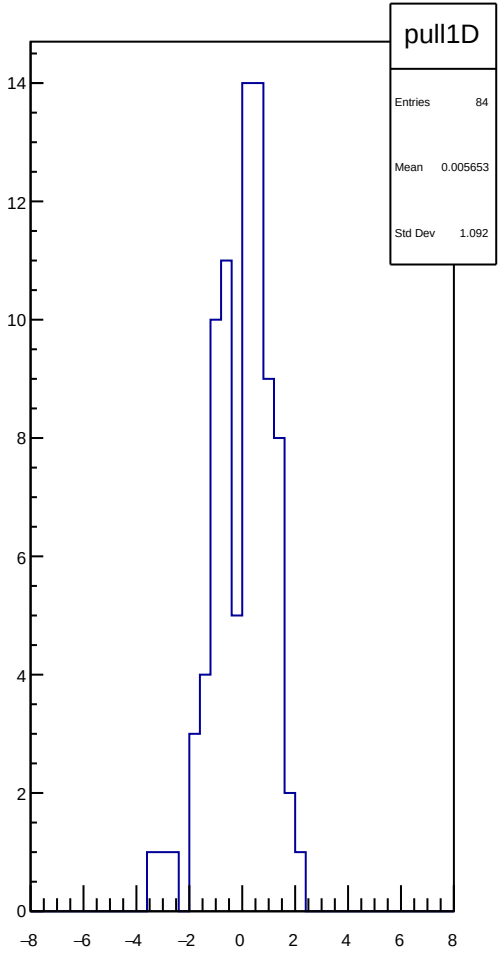

asym_sam5_rms vs run
χ² / ndf 3325 / 83
p0 885.8 ± 0.6997
1000
950
900
850
800

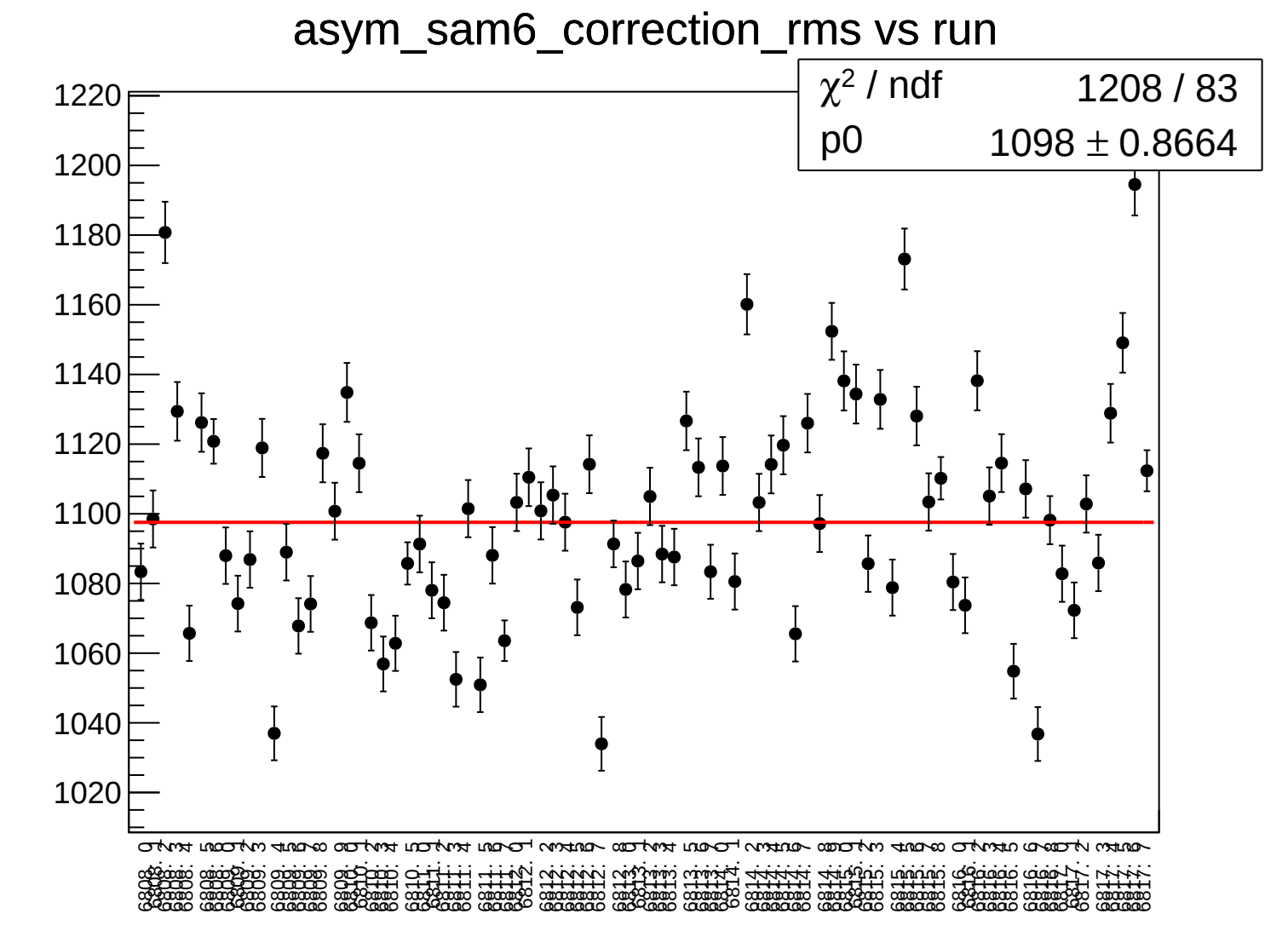

dit_asym_sam6_mean vs run
χ² / ndf 82.54 / 83
p0 126.9 ± 206.7
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 54.19
Std Dev 102.5
2
1
0
−1
−2

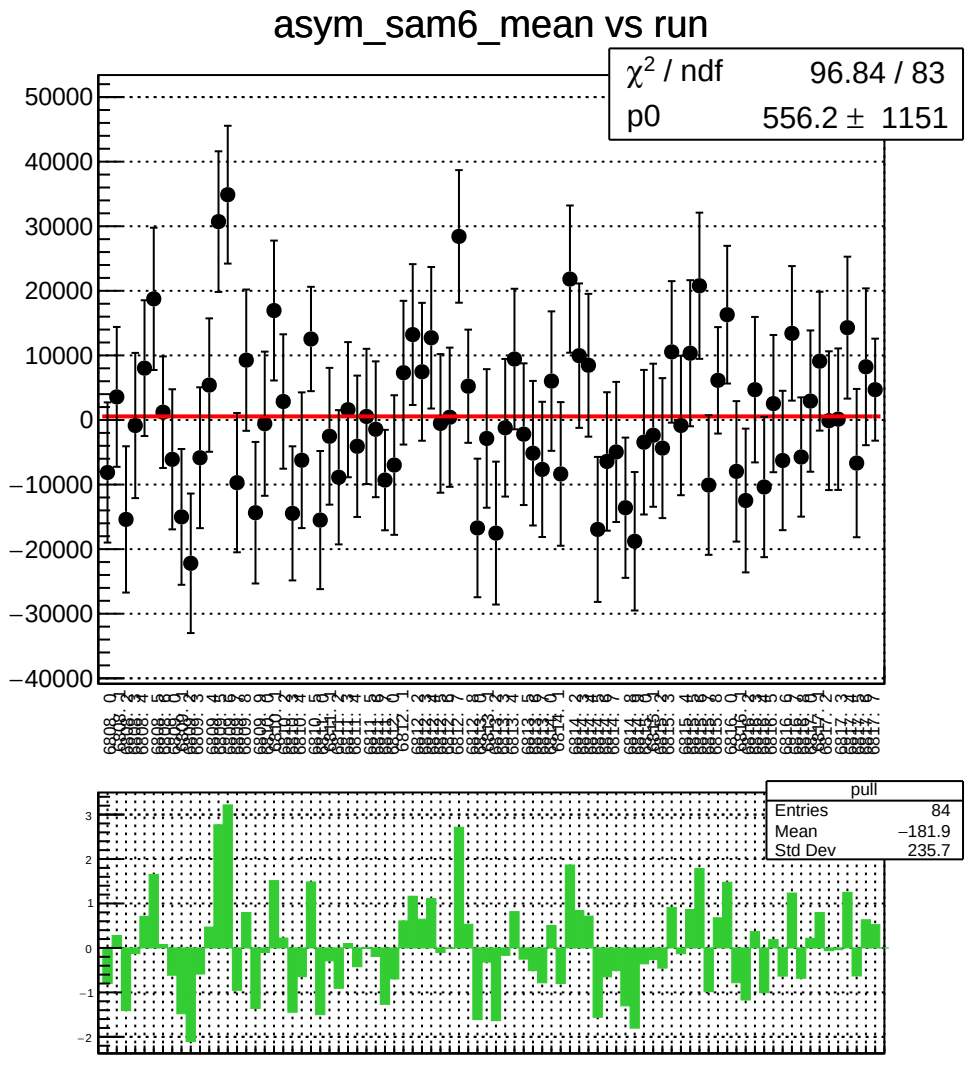

pull1D
Entries 84
Mean 0.009272
Std Dev 0.9912
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

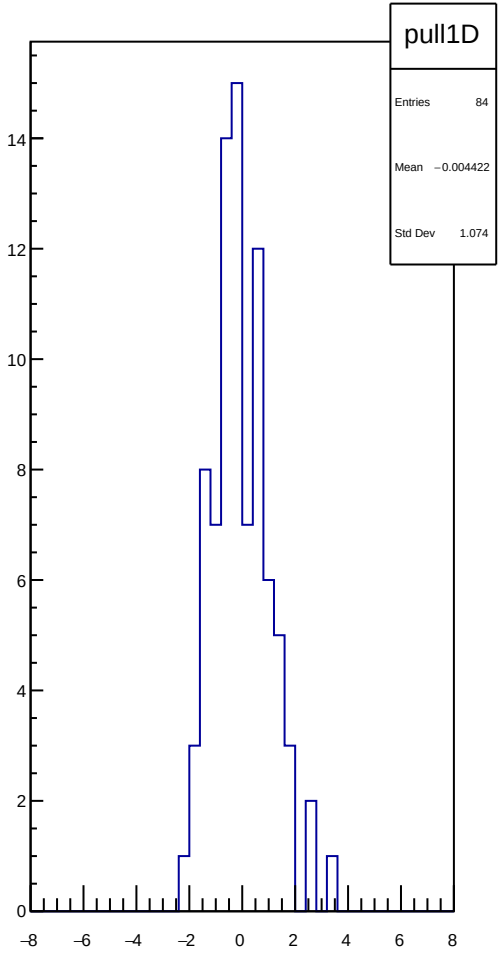

dit_asym_sam6_rms vs run
χ² / ndf 3729 / 83
p0 185 ± 0.1462
210
205
200
195
190
185
180
175
170
165

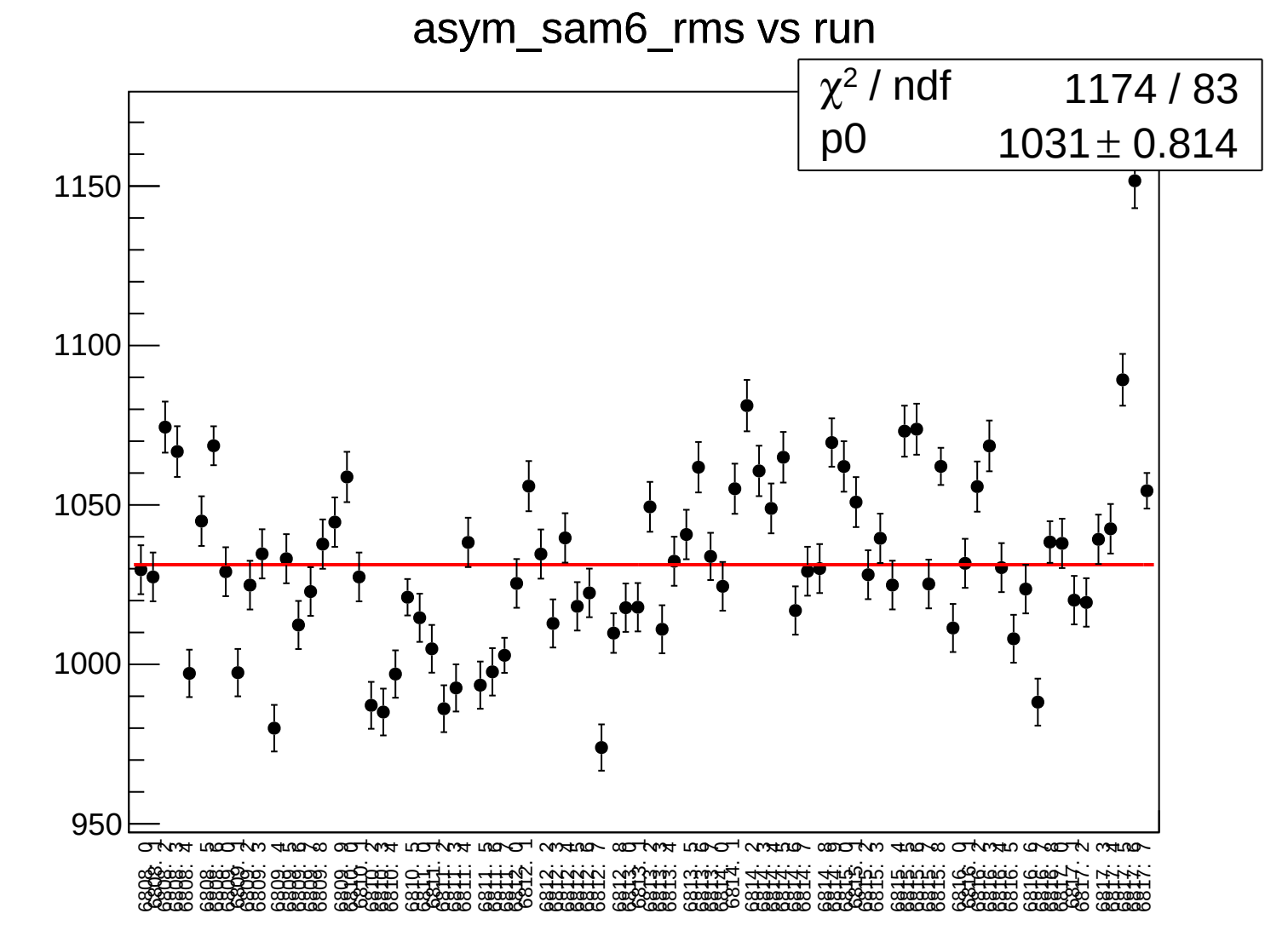

asym_sam6_correction_mean vs run
χ² / ndf 100.1 / 83
p0 −426 ± 1225
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −121
Std Dev 183.3
2
1
0
−1
−2
−3

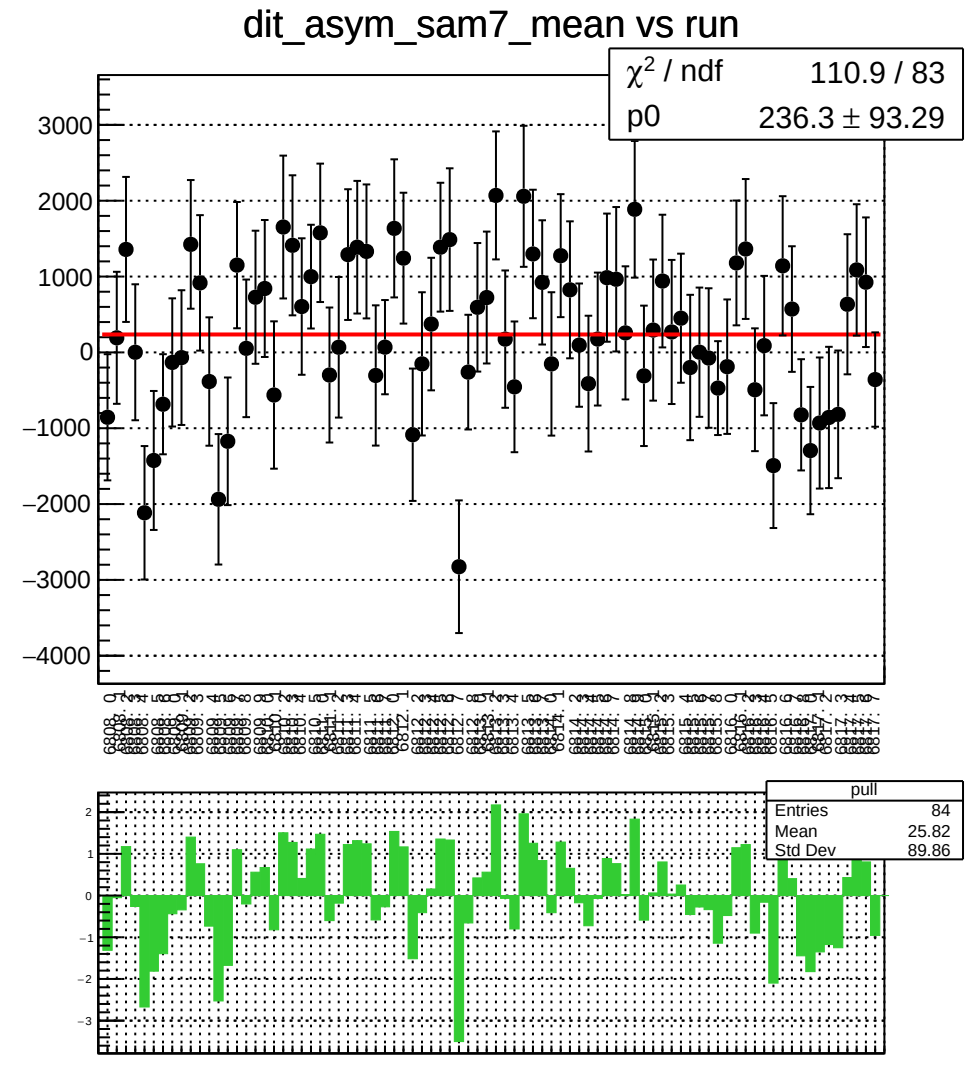

pull1D
Entries 84
Mean 0.005653
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

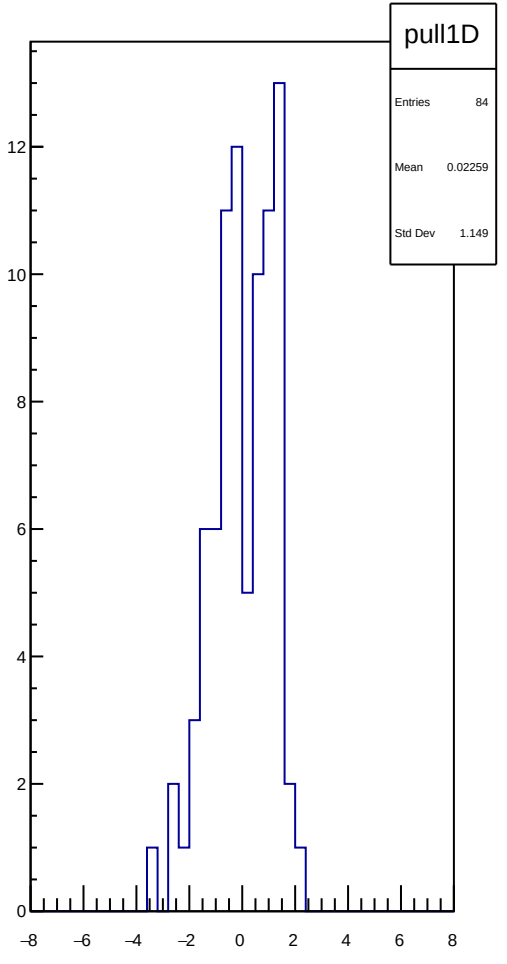

asym_sam6_correction_rms vs run
χ² / ndf 1208 / 83
p0 1098 ± 0.8664
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

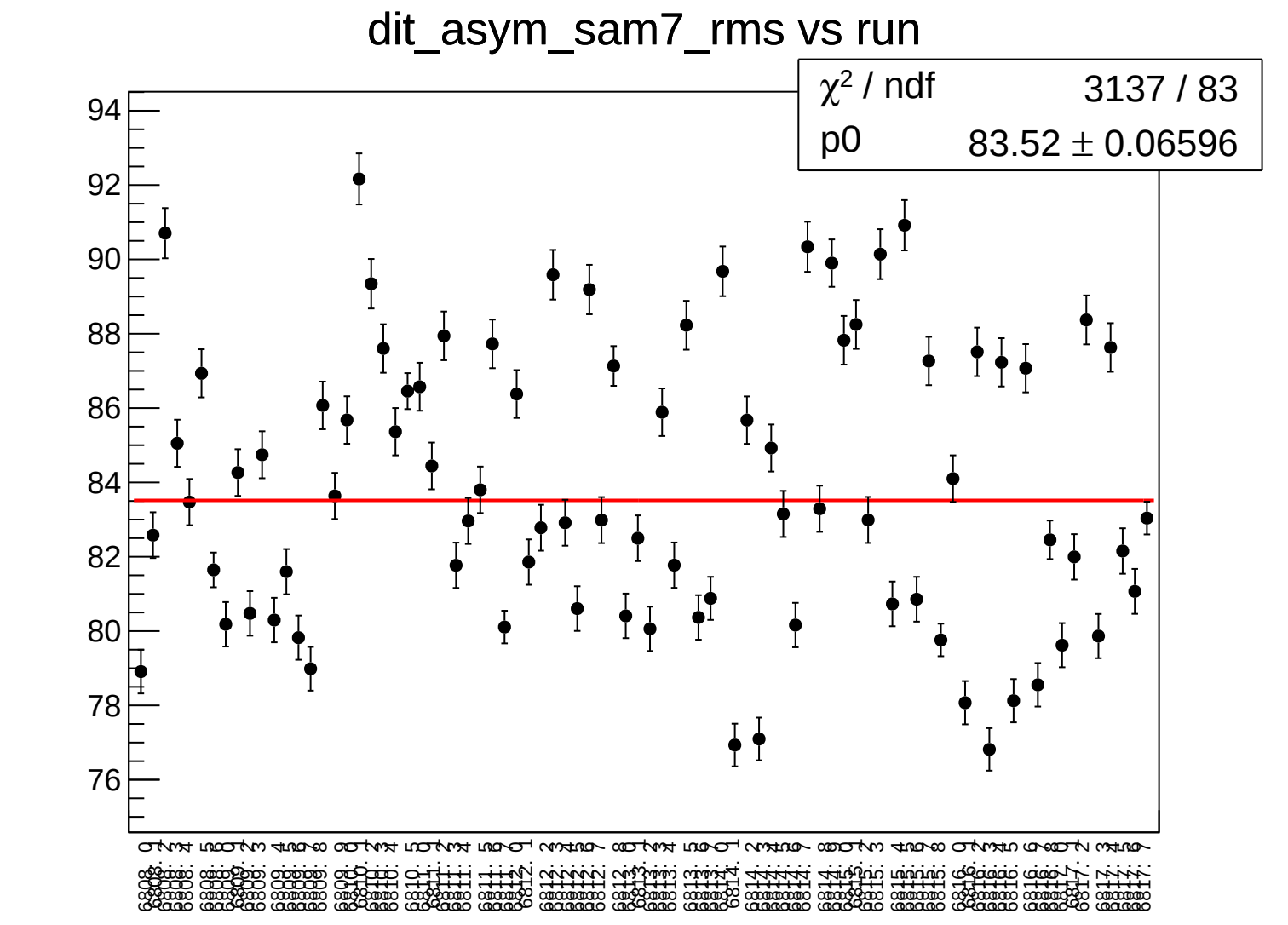

asym_sam6_mean vs run
χ² / ndf 96.84 / 83
p0 556.2 ± 1151
pull
Entries 84
Mean −181.9
Std Dev 235.7

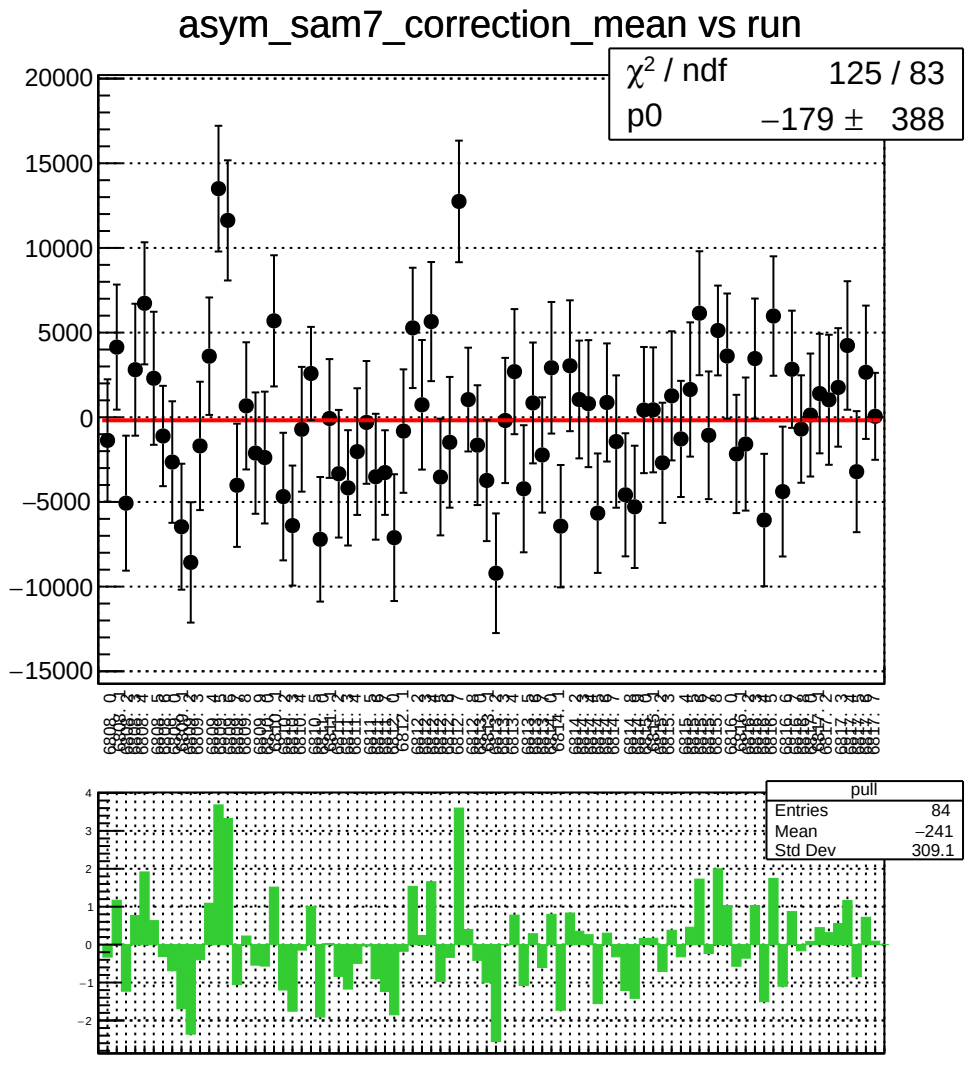

pull1D
Entries 84
Mean −0.004422
Std Dev 1.074

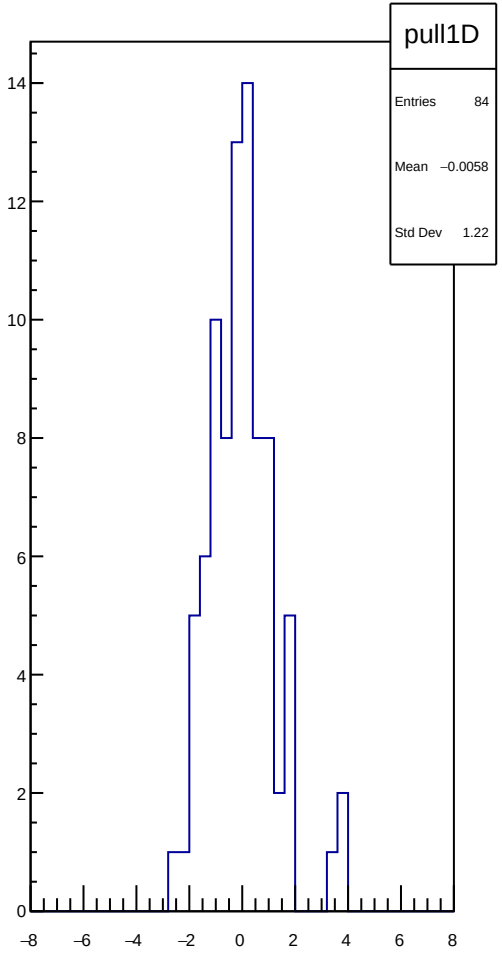

asym_sam6_rms vs run
χ^2 / ndf 1174 / 83
p0 1031 ± 0.814
1150
1100
1050
1000
950

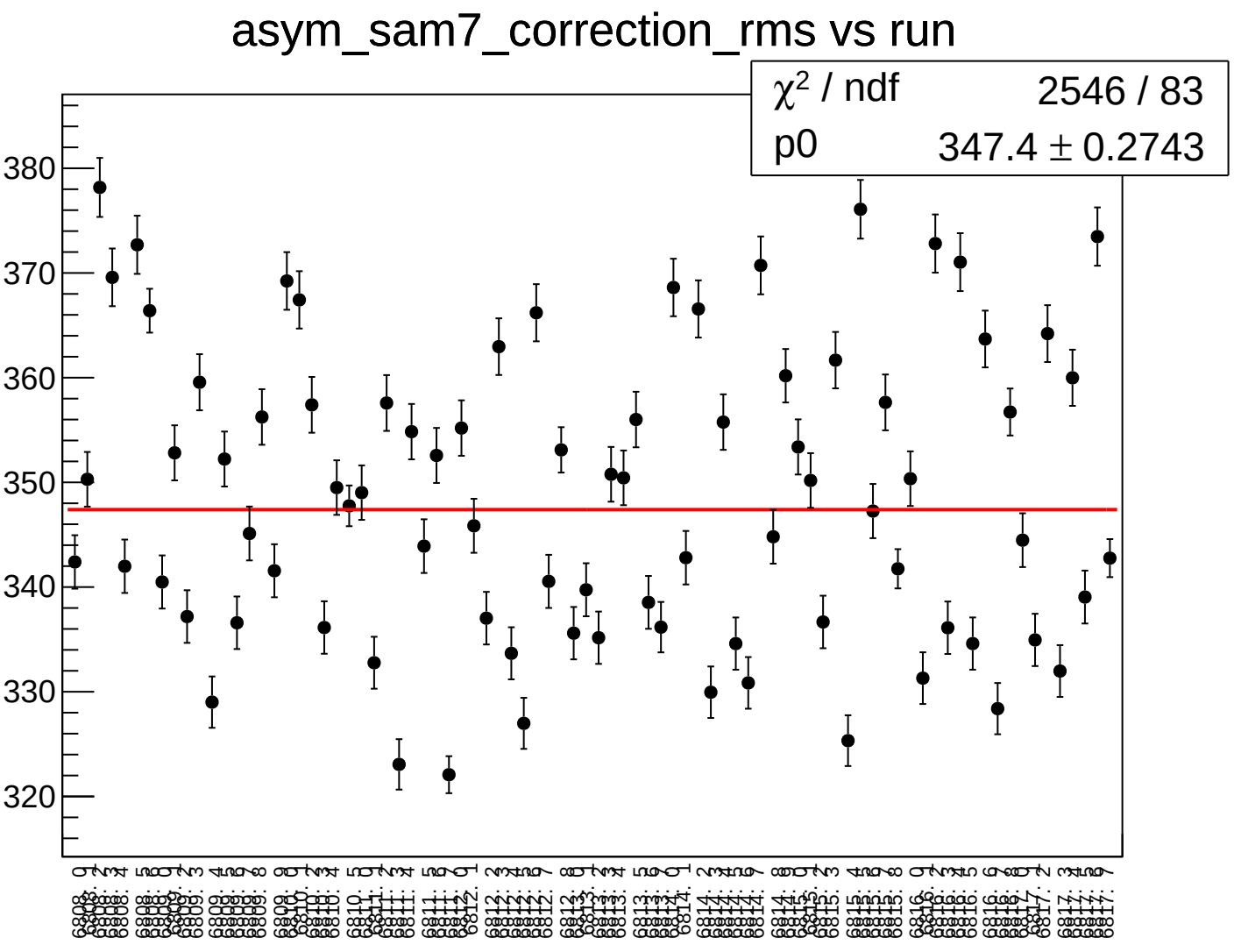

dit_asym_sam7_mean vs run
χ² / ndf 110.9 / 83
p0 236.3 ± 93.29
pull
Entries 84
Mean 25.82
Std Dev 89.86

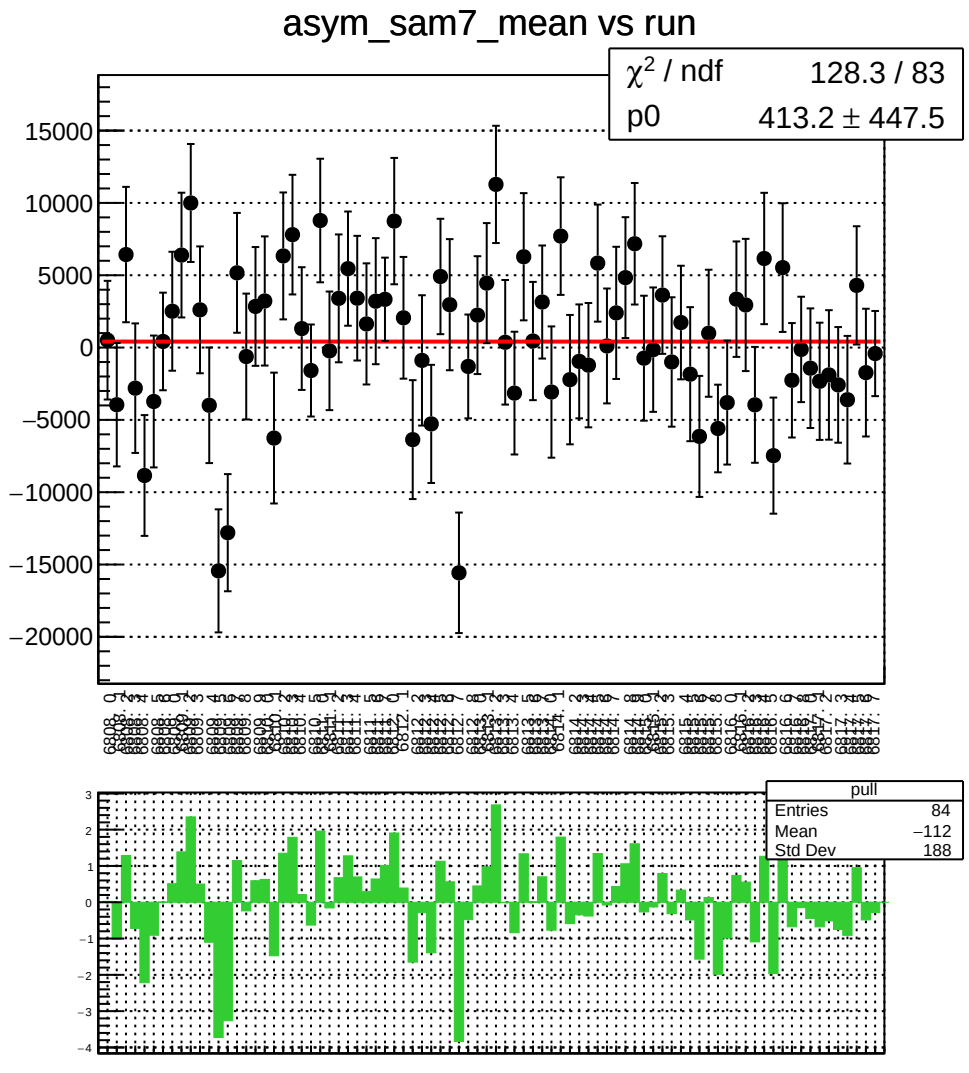

pull1D
Entries 84
Mean 0.02259
Std Dev 1.149

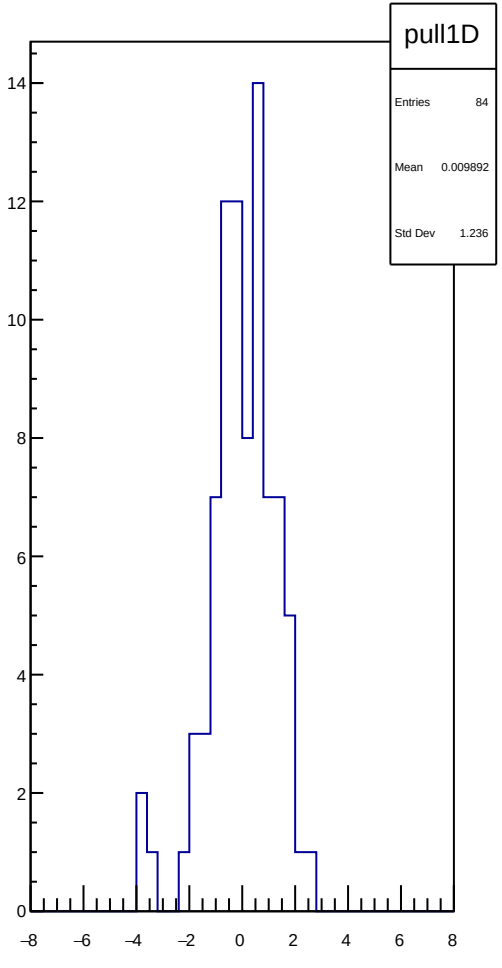

dit_asym_sam7_rms vs run
χ² / ndf 3137 / 83
p0 83.52 ± 0.06596
94
92
90
88
86
84
82
80
78
76

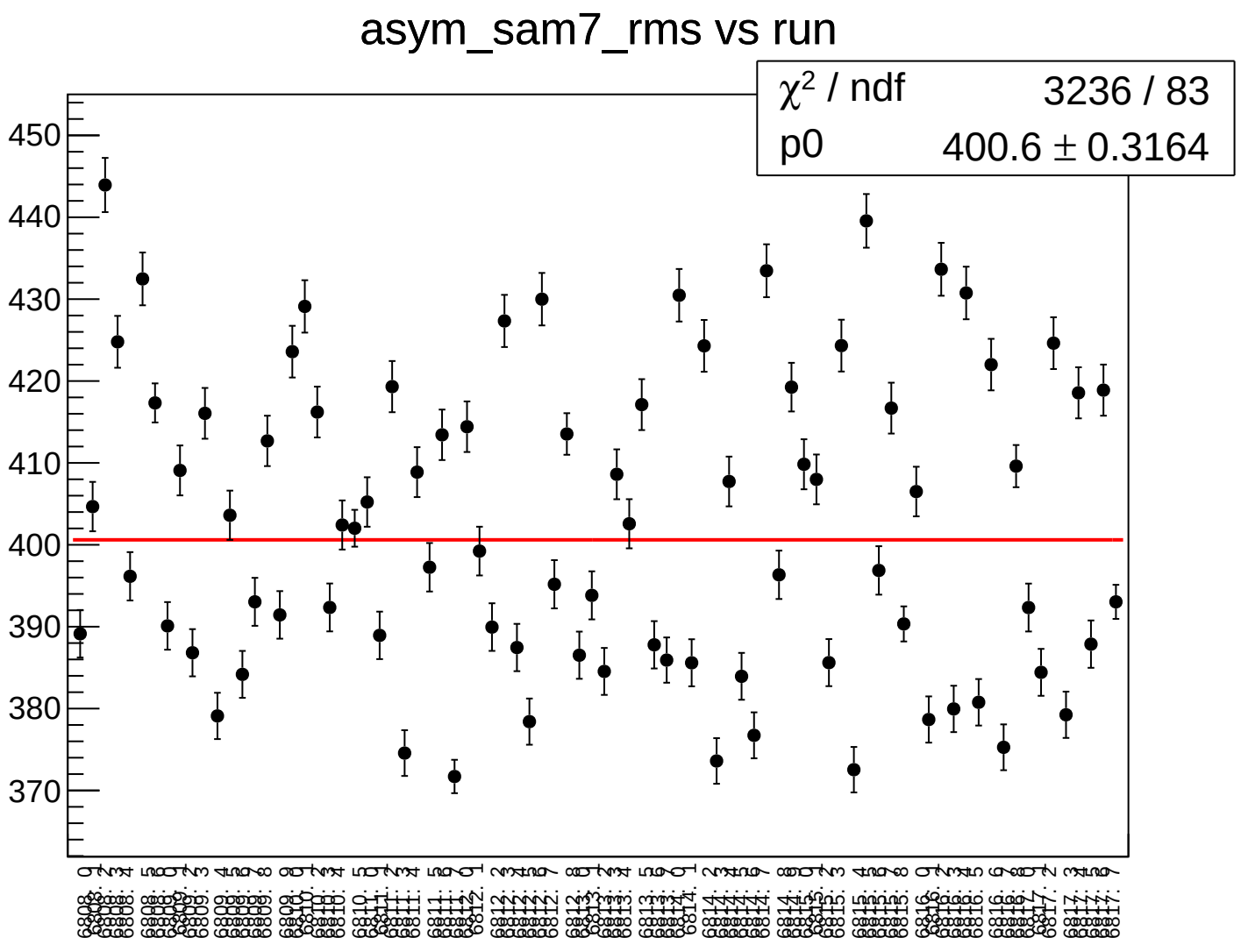

asym_sam7_correction_mean vs run
χ² / ndf 125 / 83
p0 −179 ± 388
pull
Entries 84
Mean −241
Std Dev 309.1

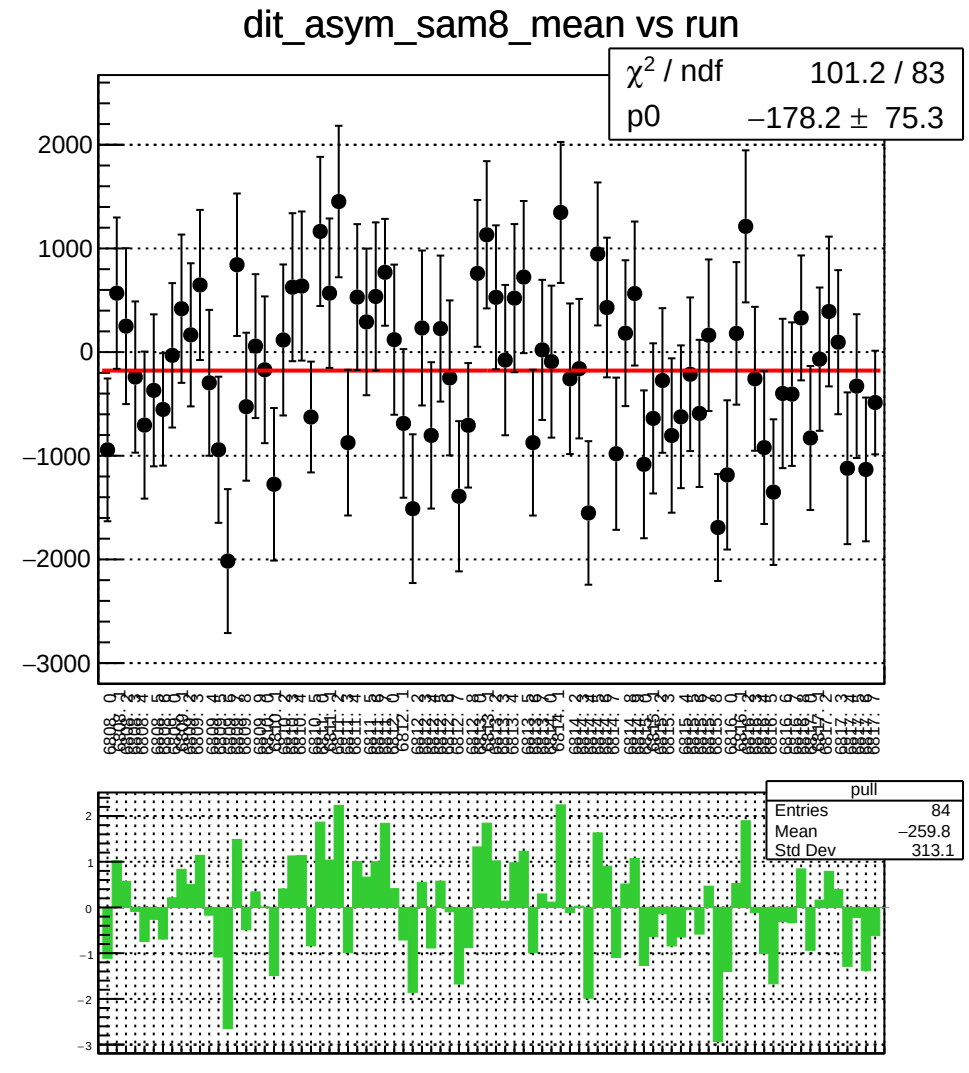

pull1D
Entries 84
Mean −0.0058
Std Dev 1.22

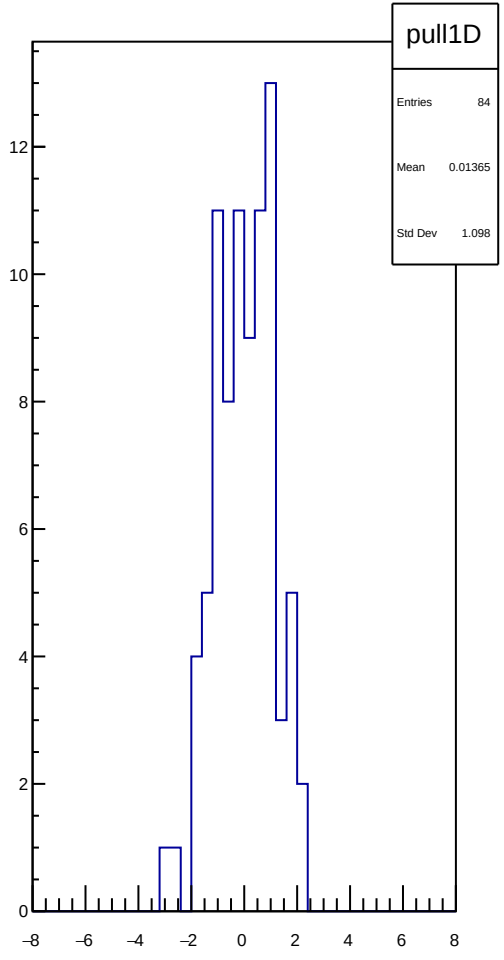

asym_sam7_correction_rms vs run
χ² / ndf 2546 / 83
p0 347.4 ± 0.2743
380
370
360
350
340
330
320

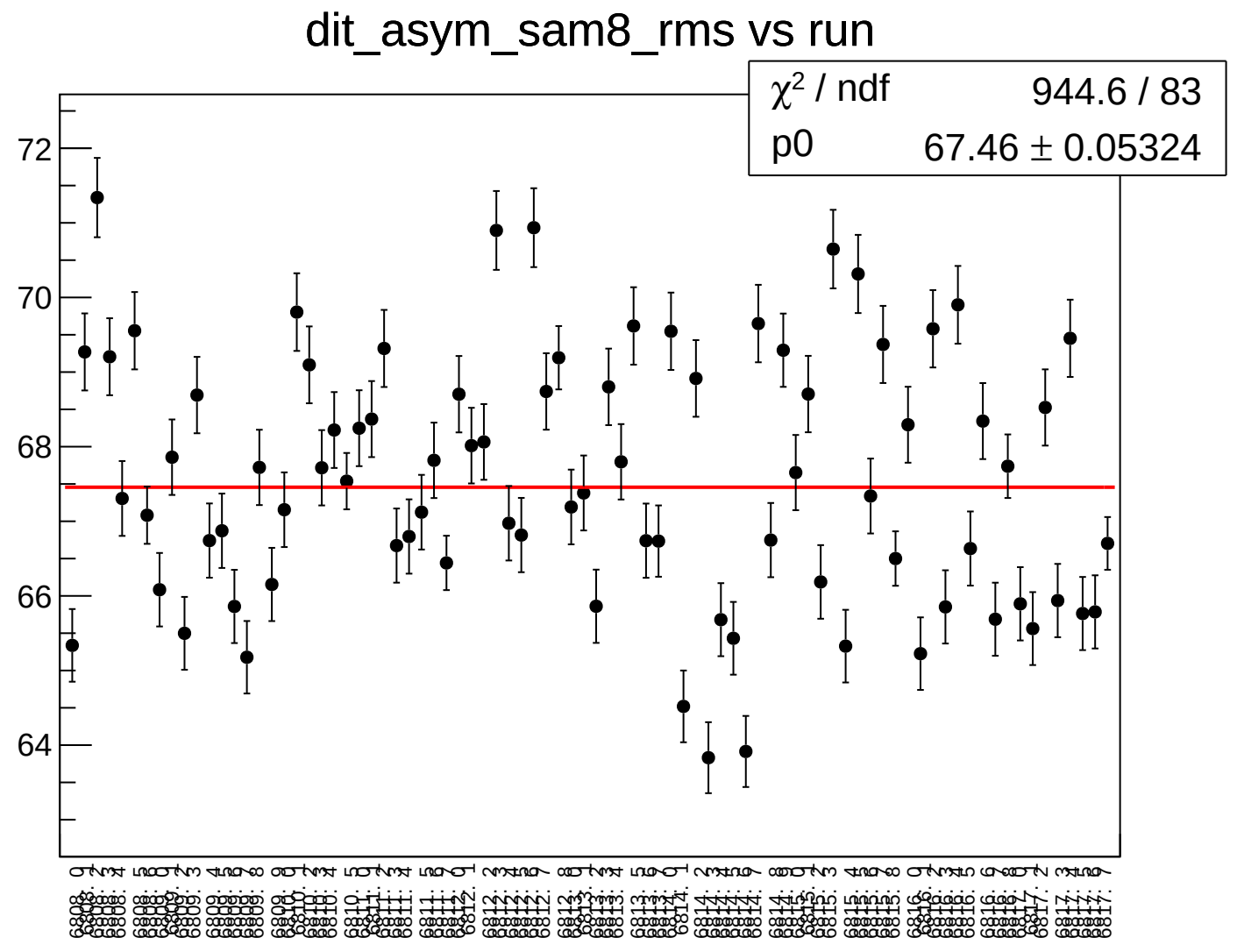

asym_sam7_mean vs run
χ² / ndf 128.3 / 83
p0 413.2 ± 447.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean −112
Std Dev 188
3
2
1
0
−1
−2
−3
−4

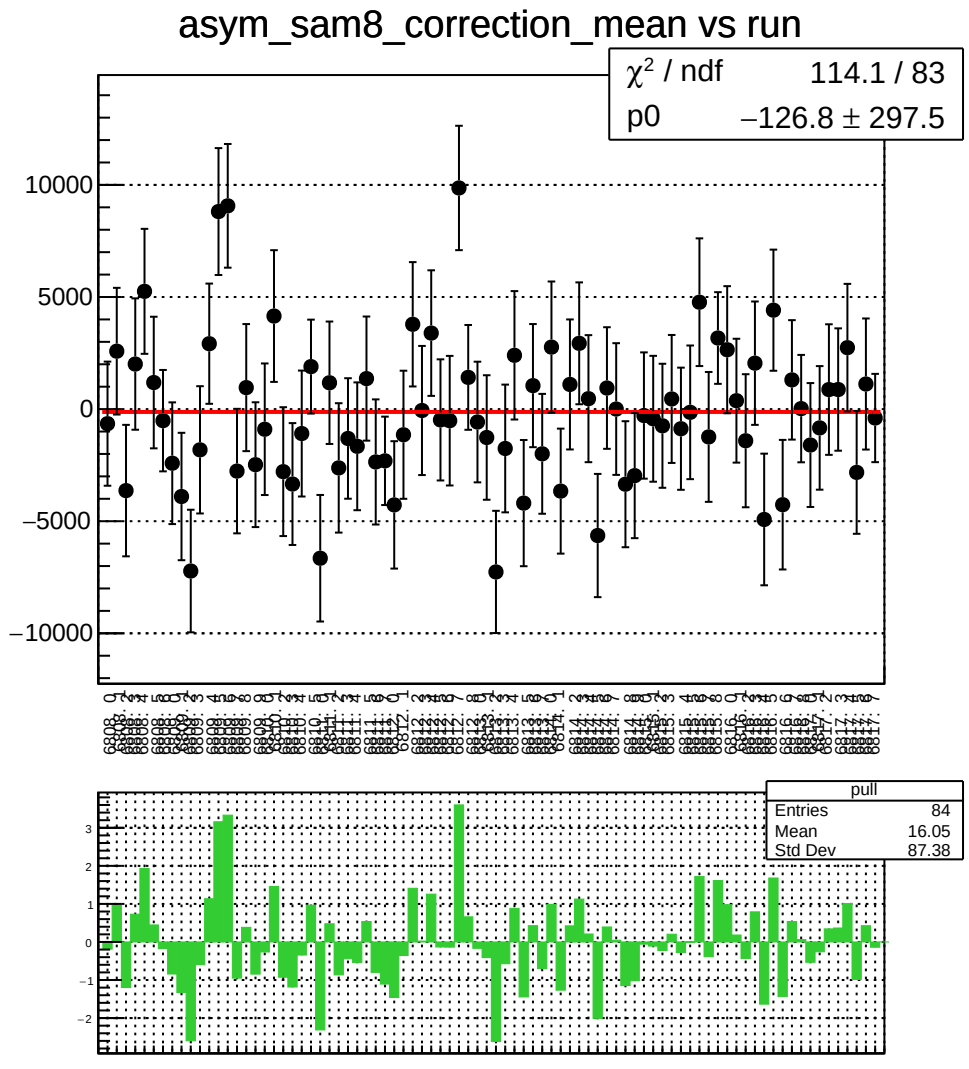

pull1D
Entries 84
Mean 0.009892
Std Dev 1.236
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

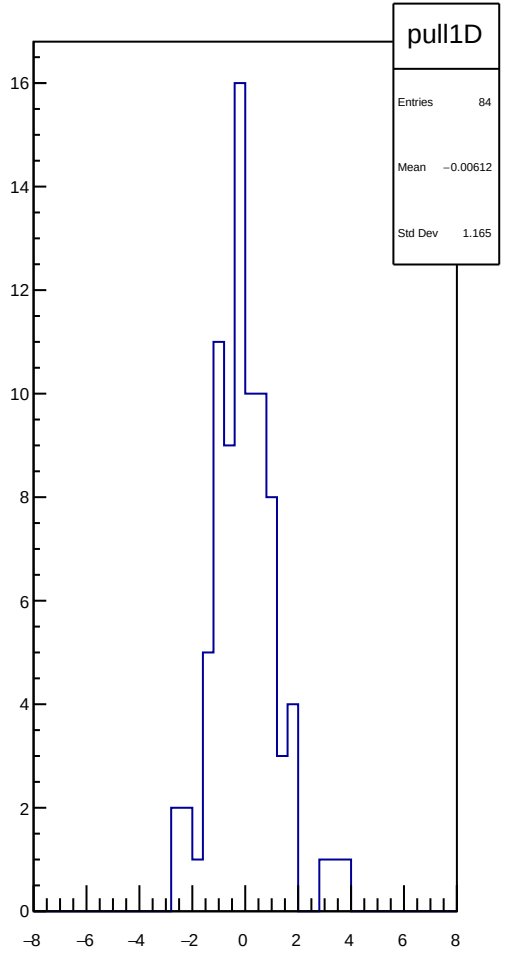

asym_sam7_rms vs run
χ² / ndf 3236 / 83
p0 400.6 ± 0.3164
450
440
430
420
410
400
390
380
370

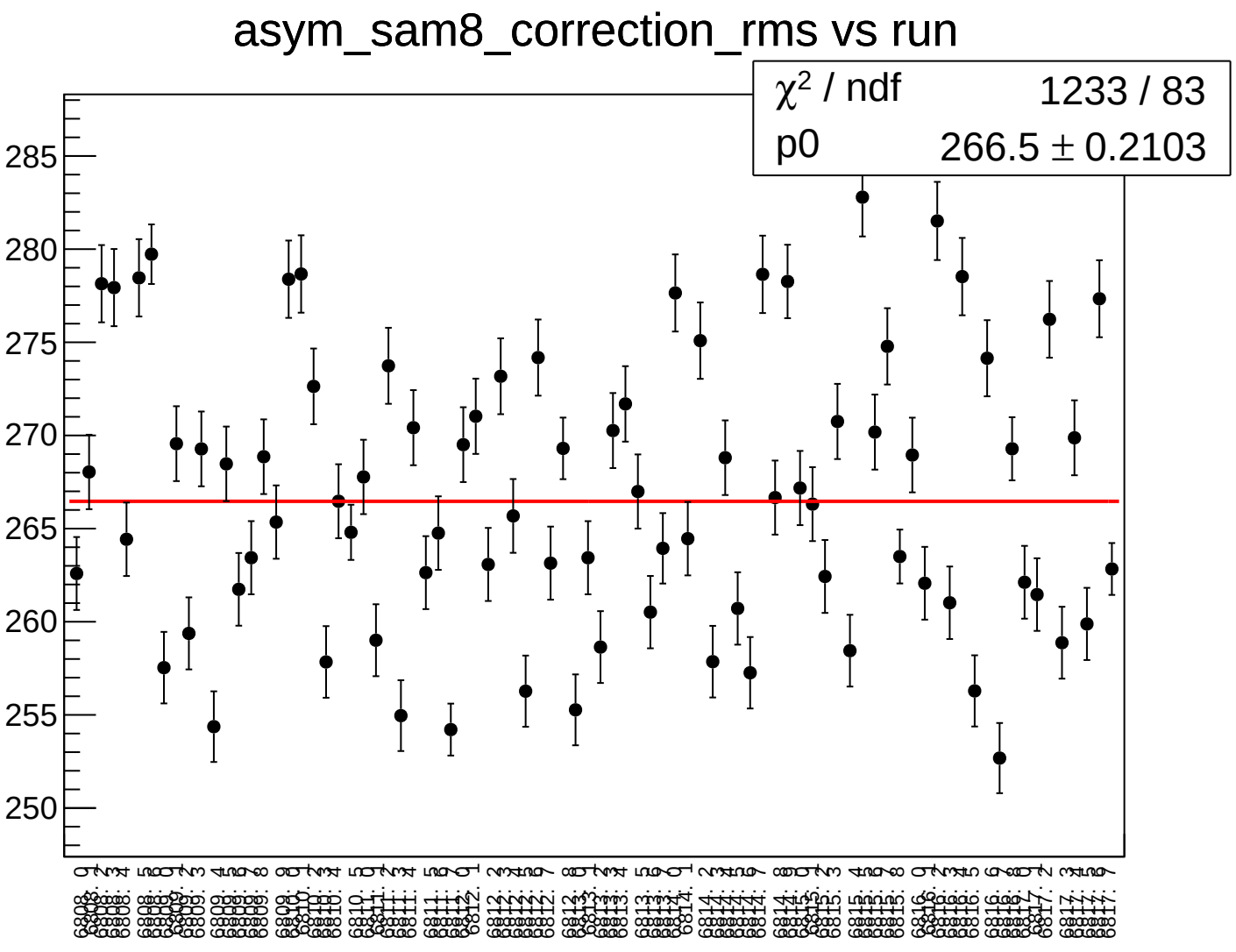

dit_asym_sam8_mean vs run
χ² / ndf 101.2 / 83
p0 −178.2 ± 75.3
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −259.8
Std Dev 313.1
2
1
0
−1
−2
−3

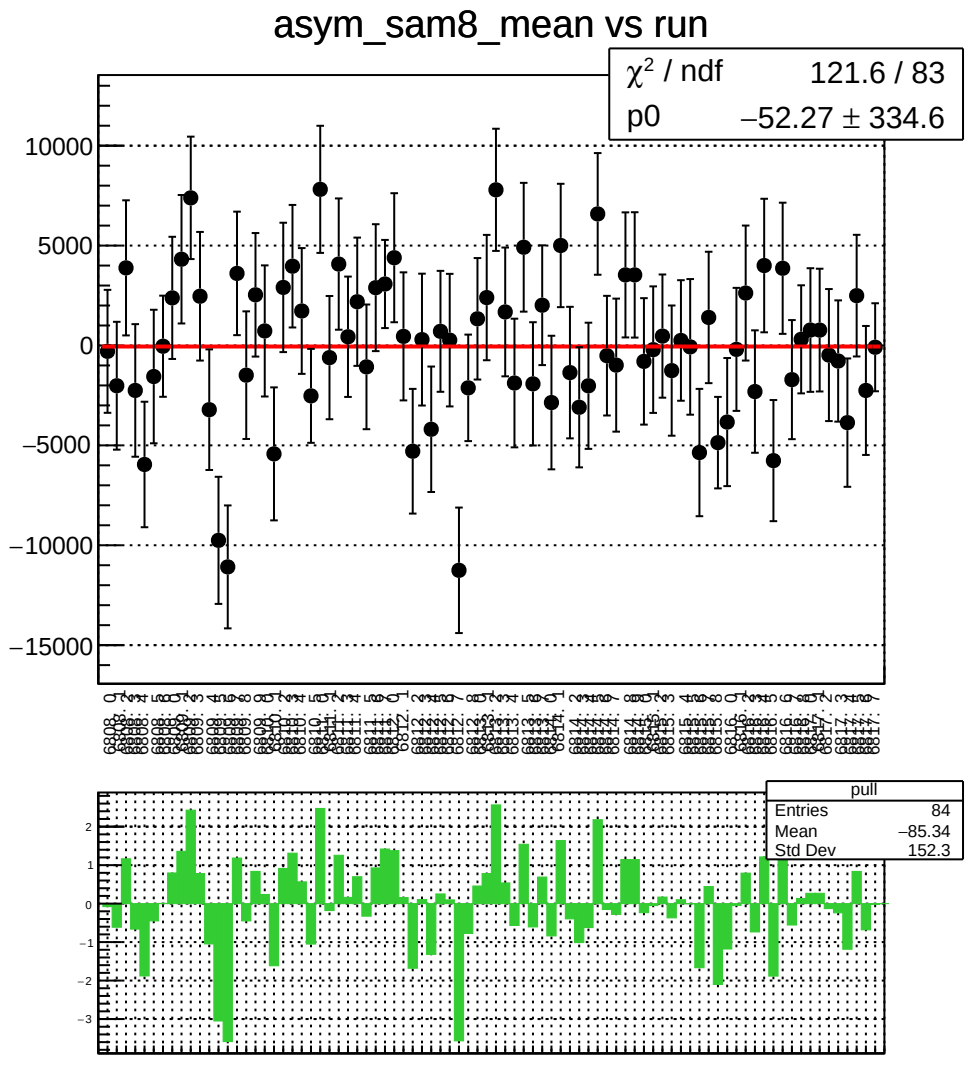

pull1D
Entries 84
Mean 0.01365
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

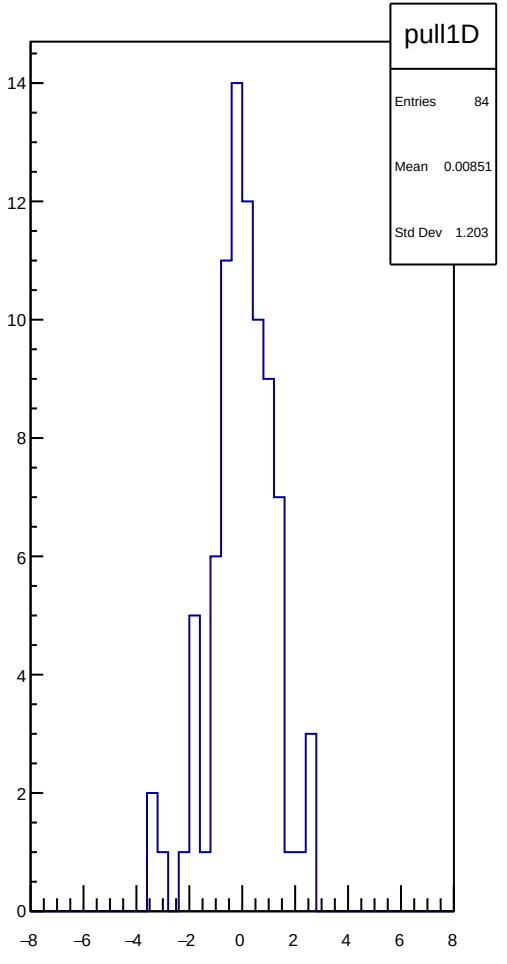

dit_asym_sam8_rms vs run
χ^2 / ndf 944.6 / 83
p0 67.46 ± 0.05324
72
70
68
66
64

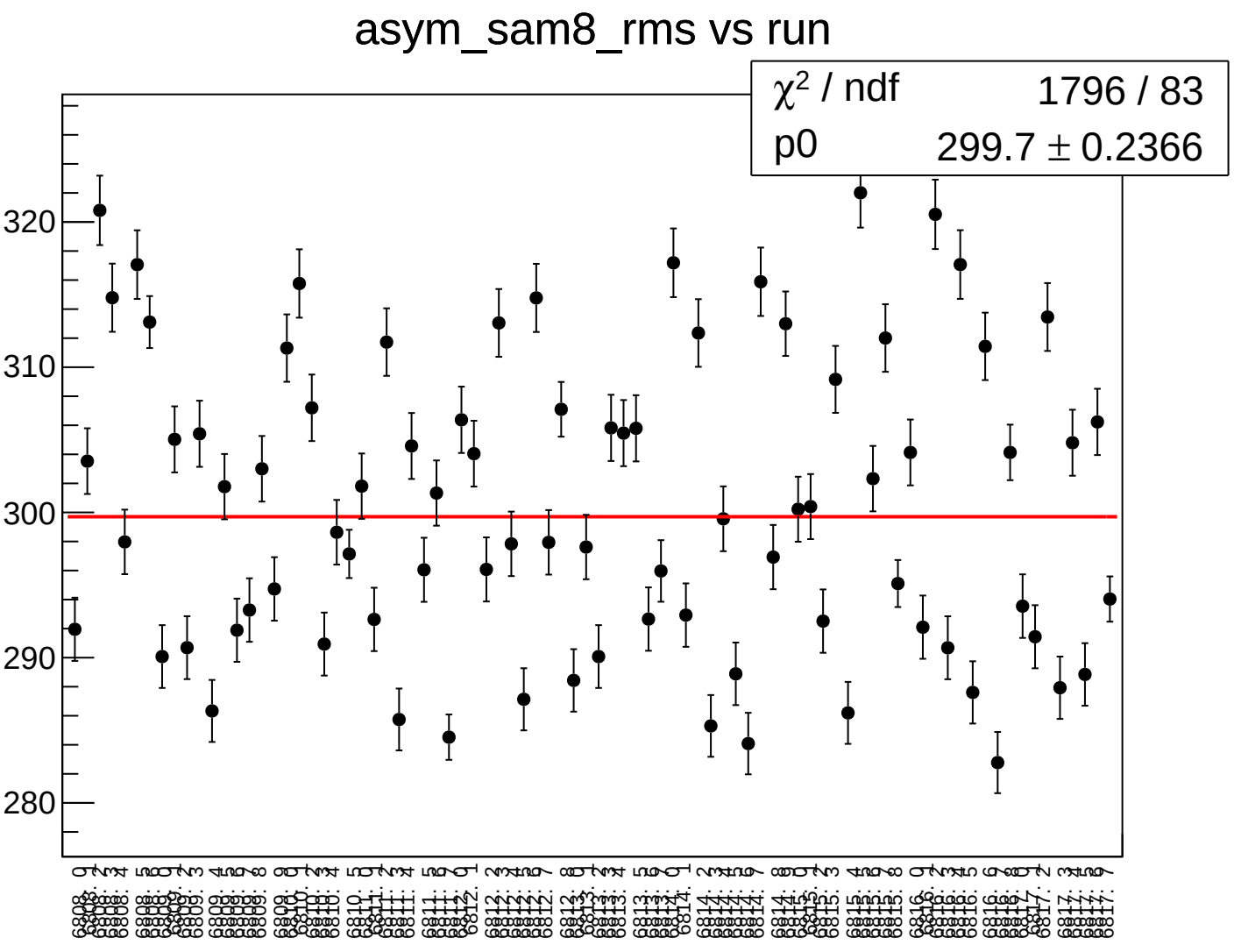

asym_sam8_correction_mean vs run
χ² / ndf 114.1 / 83
p0 −126.8 ± 297.5
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 16.05
Std Dev 87.38
3
2
1
0
−1
−2

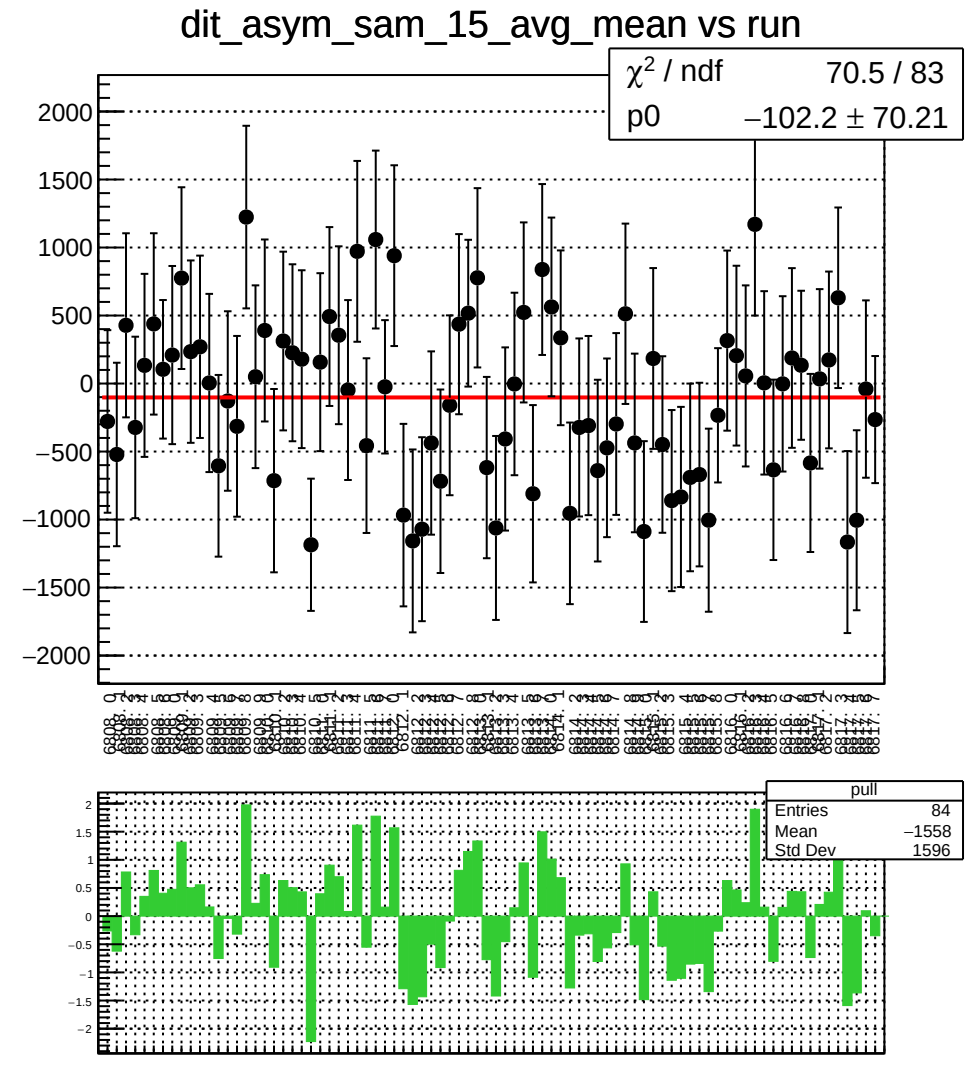

pull1D
Entries 84
Mean −0.00612
Std Dev 1.165
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

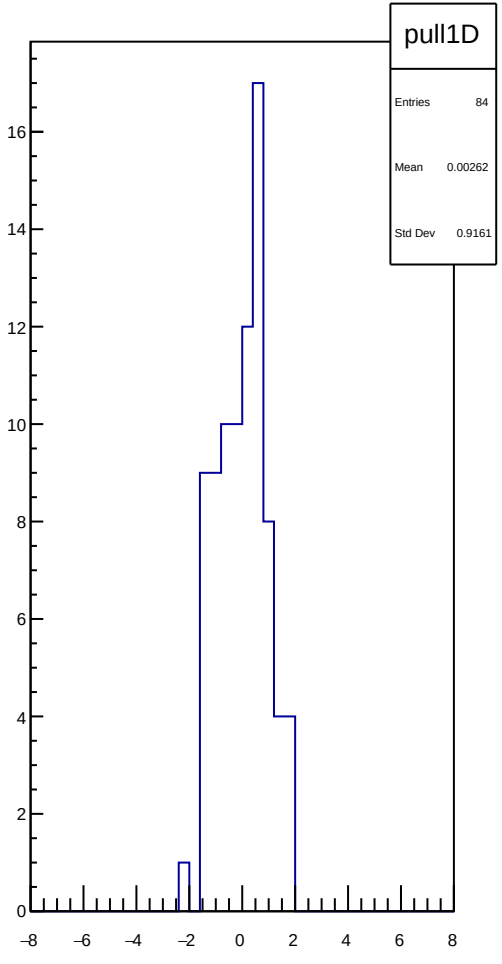

asym_sam8_correction_rms vs run
χ² / ndf 1233 / 83
p0 266.5 ± 0.2103
285
280
275
270
265
260
255
250

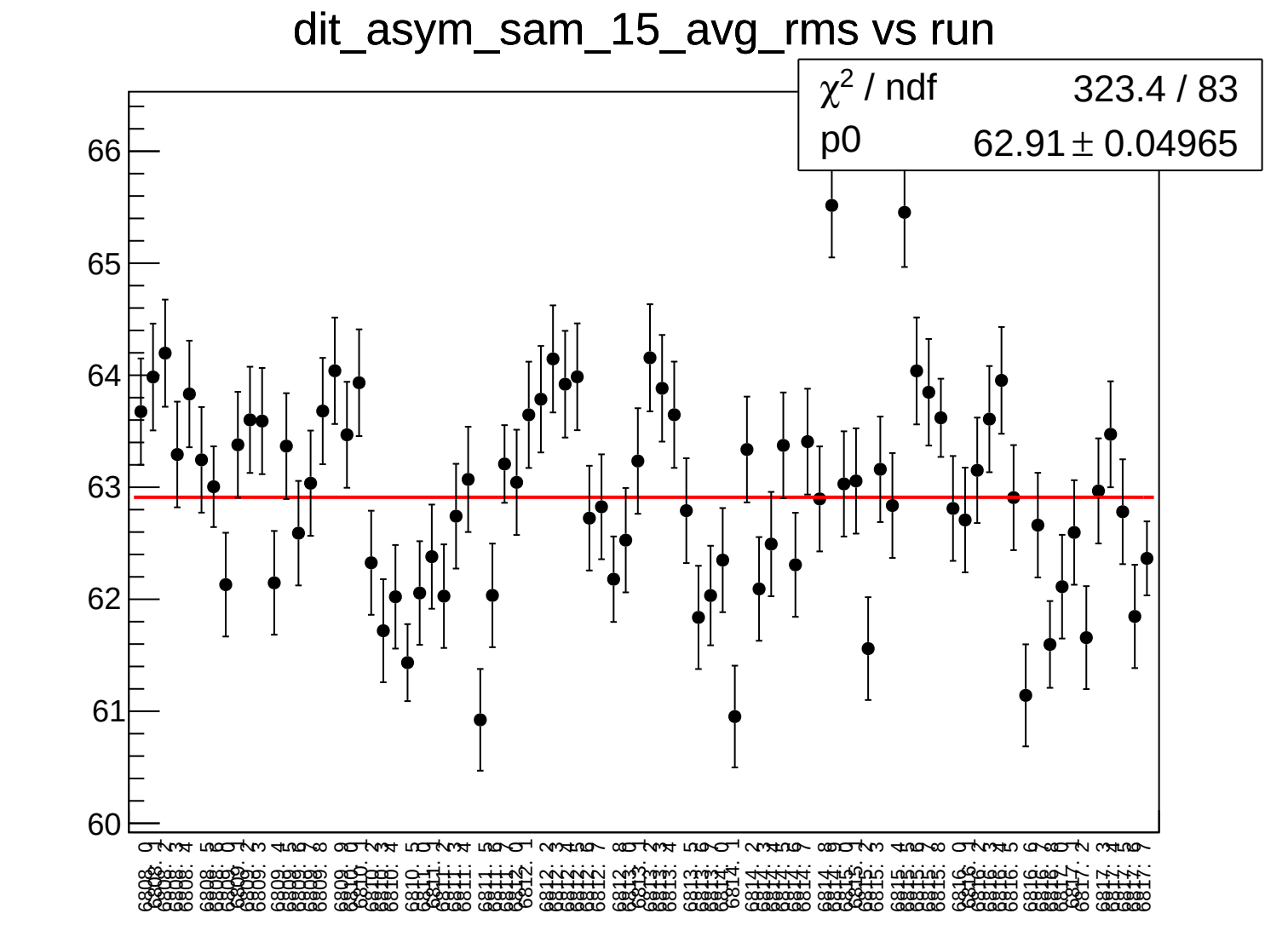

asym_sam8_mean vs run
χ² / ndf 121.6 / 83
p0 −52.27 ± 334.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −85.34
Std Dev 152.3
2
1
0
−1
−2
−3

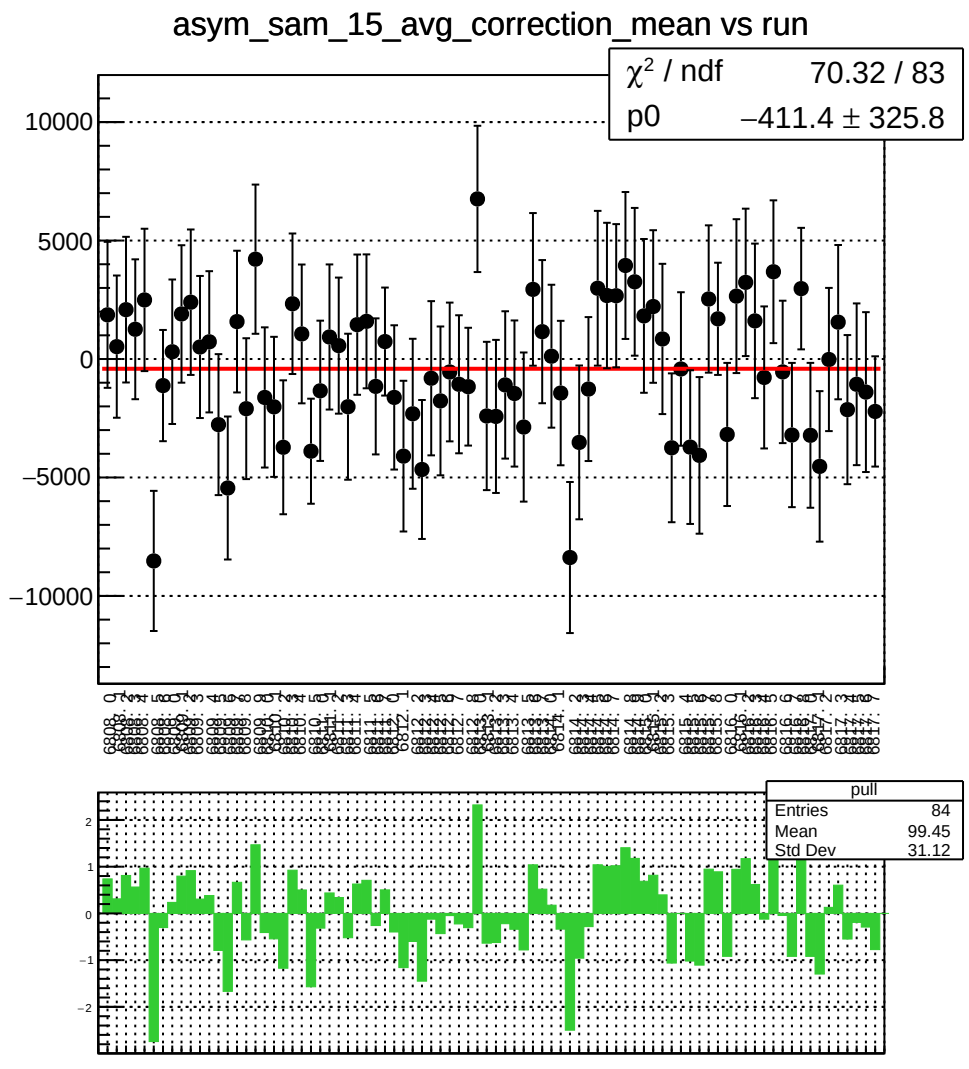

pull1D
Entries 84
Mean 0.00851
Std Dev 1.203
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

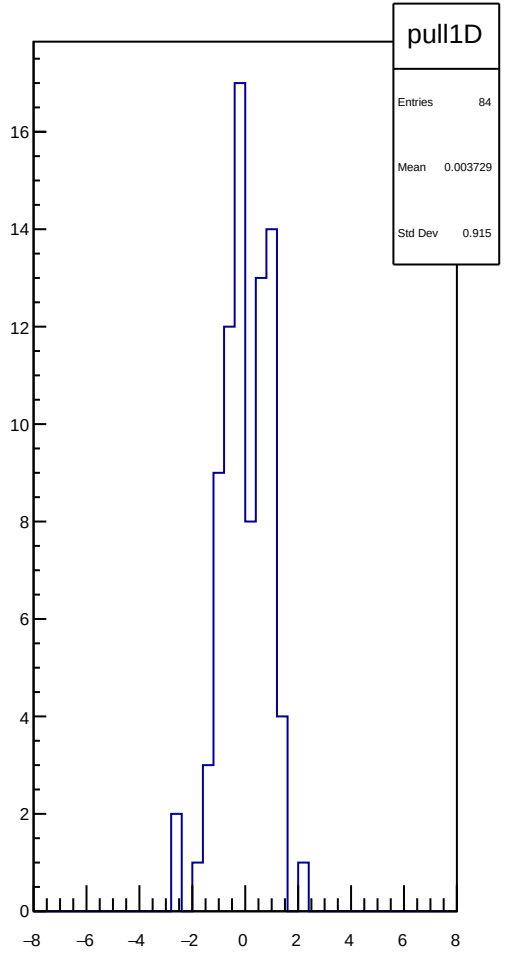

asym_sam8_rms vs run
χ² / ndf 1796 / 83
p0 299.7 ± 0.2366
320
310
300
290
280

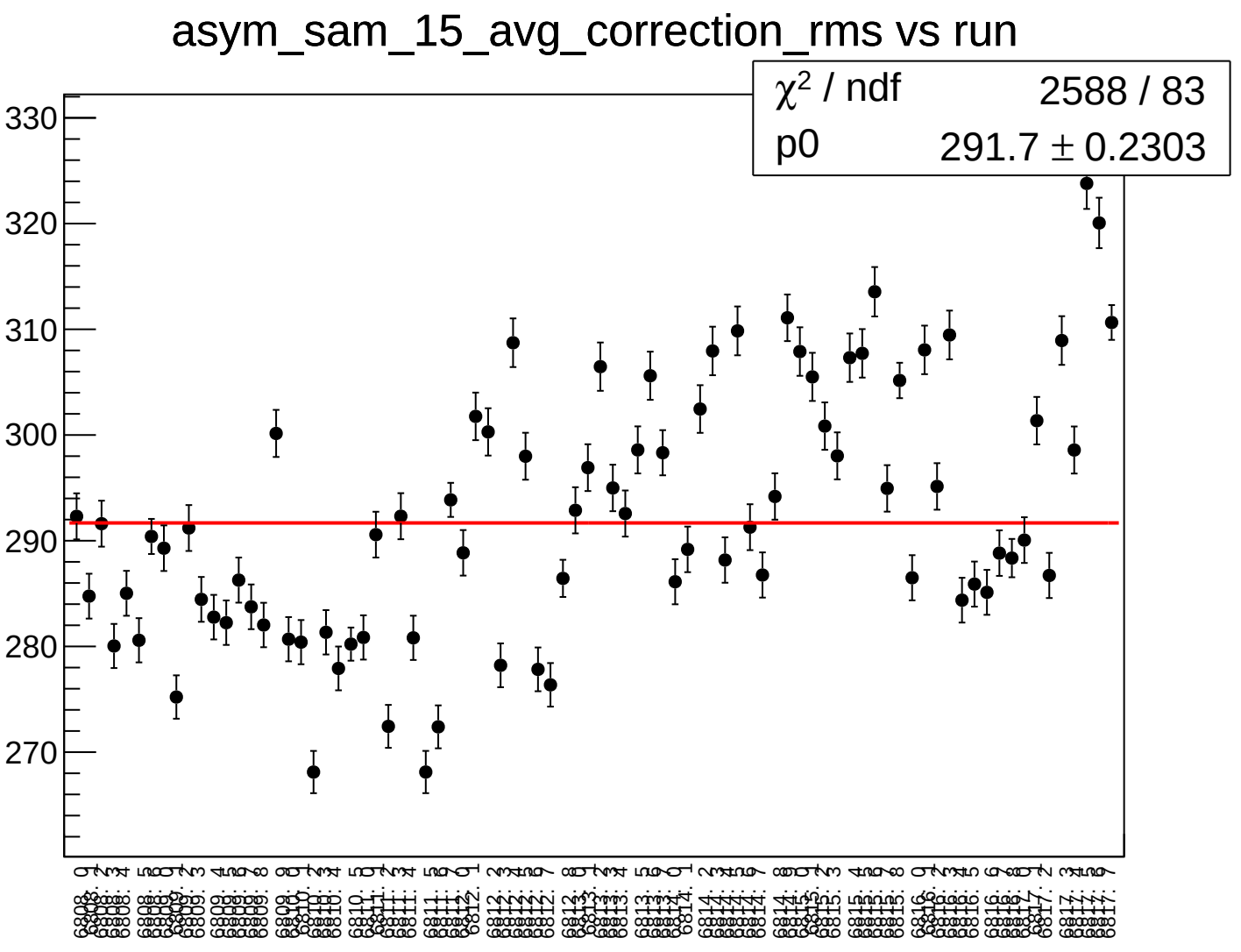

dit_asym_sam_15_avg_mean vs run
χ² / ndf 70.5 / 83
p0 −102.2 ± 70.21
pull
Entries 84
Mean −1558
Std Dev 1596

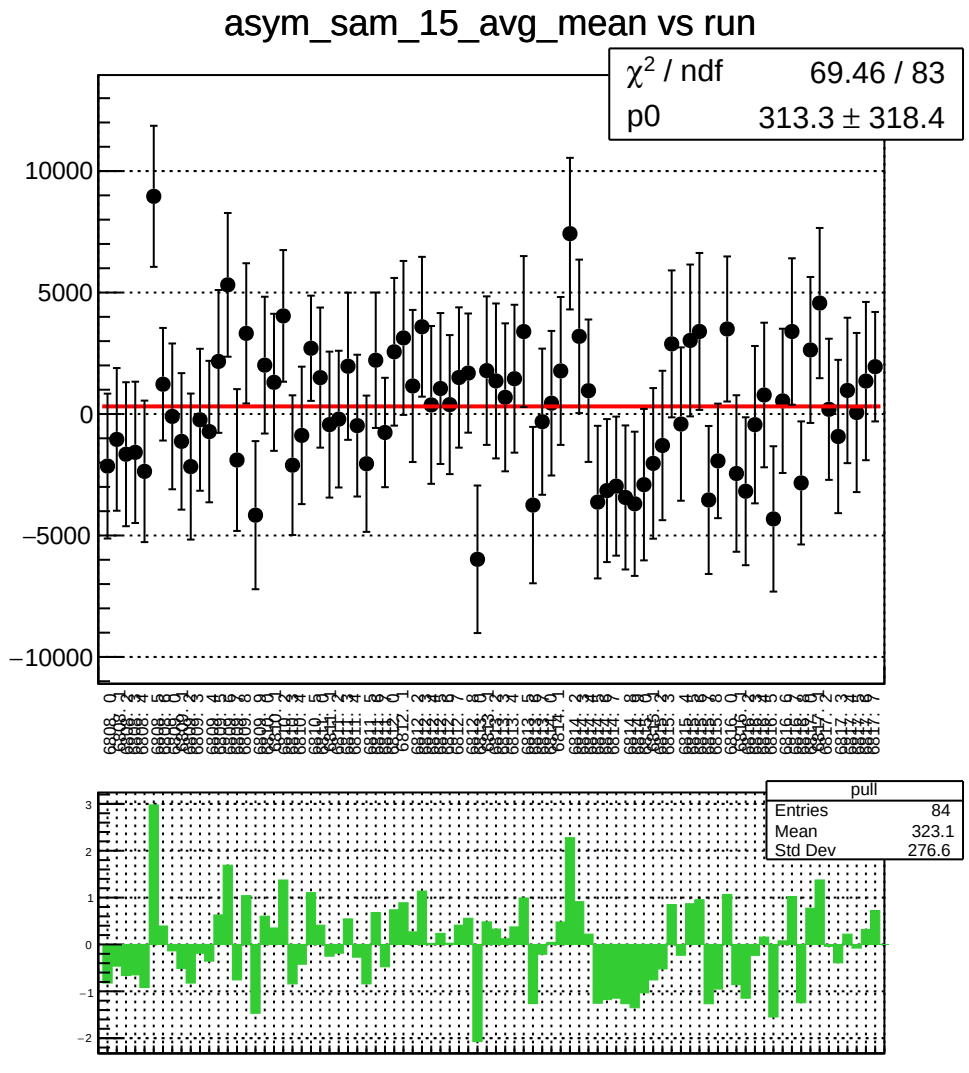

pull1D
Entries 84
Mean 0.00262
Std Dev 0.9161

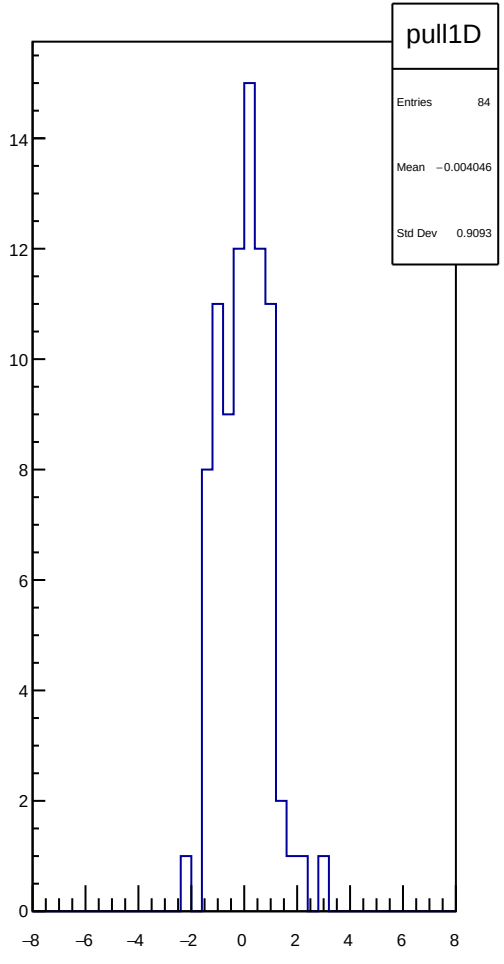

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 323.4 / 83
p0 62.91 ± 0.04965
66
65
64
63
62
61
60

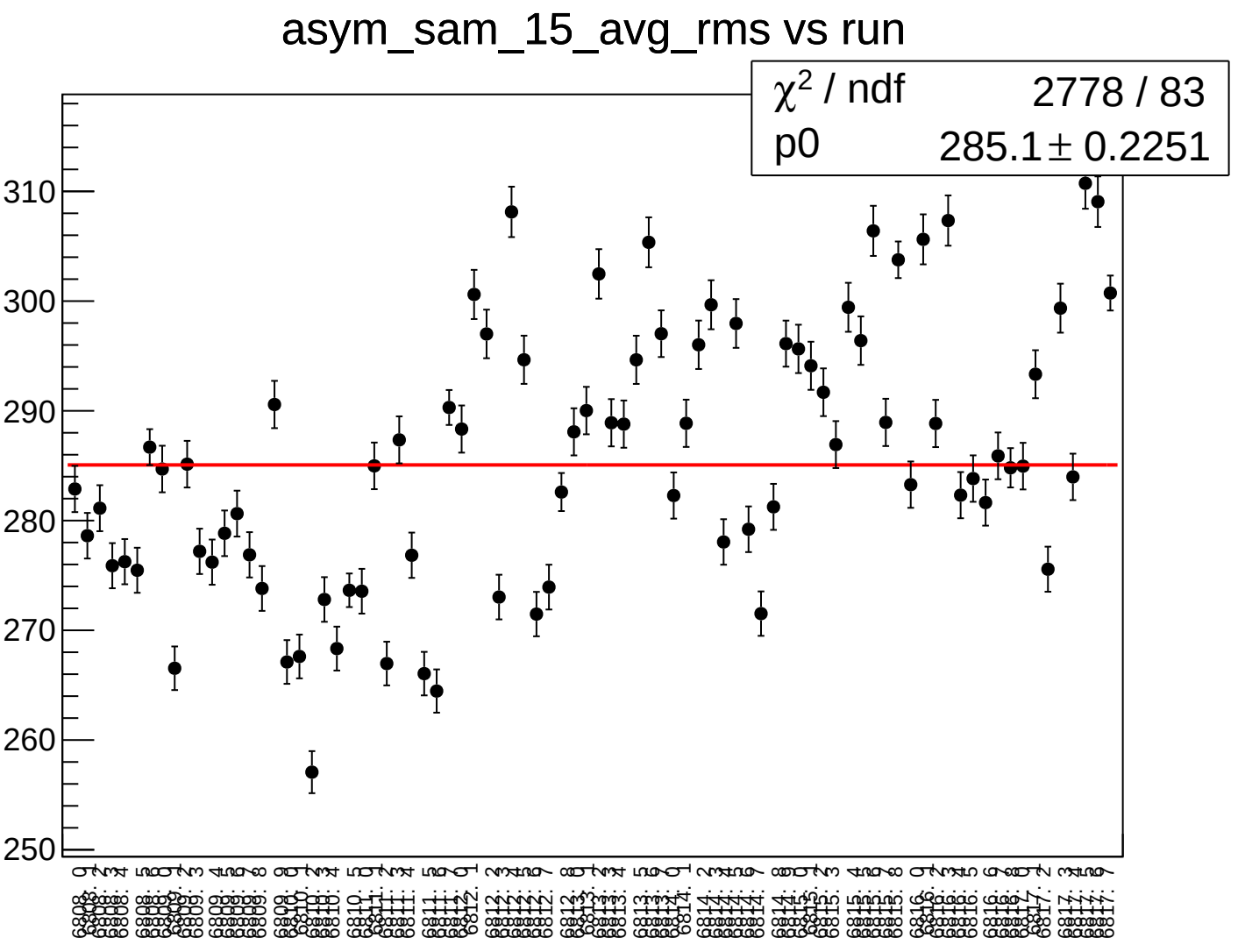

asym_sam_15_avg_correction_mean vs run
χ² / ndf 70.32 / 83
p0 −411.4 ± 325.8
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 99.45
Std Dev 31.12
2
1
0
−1
−2

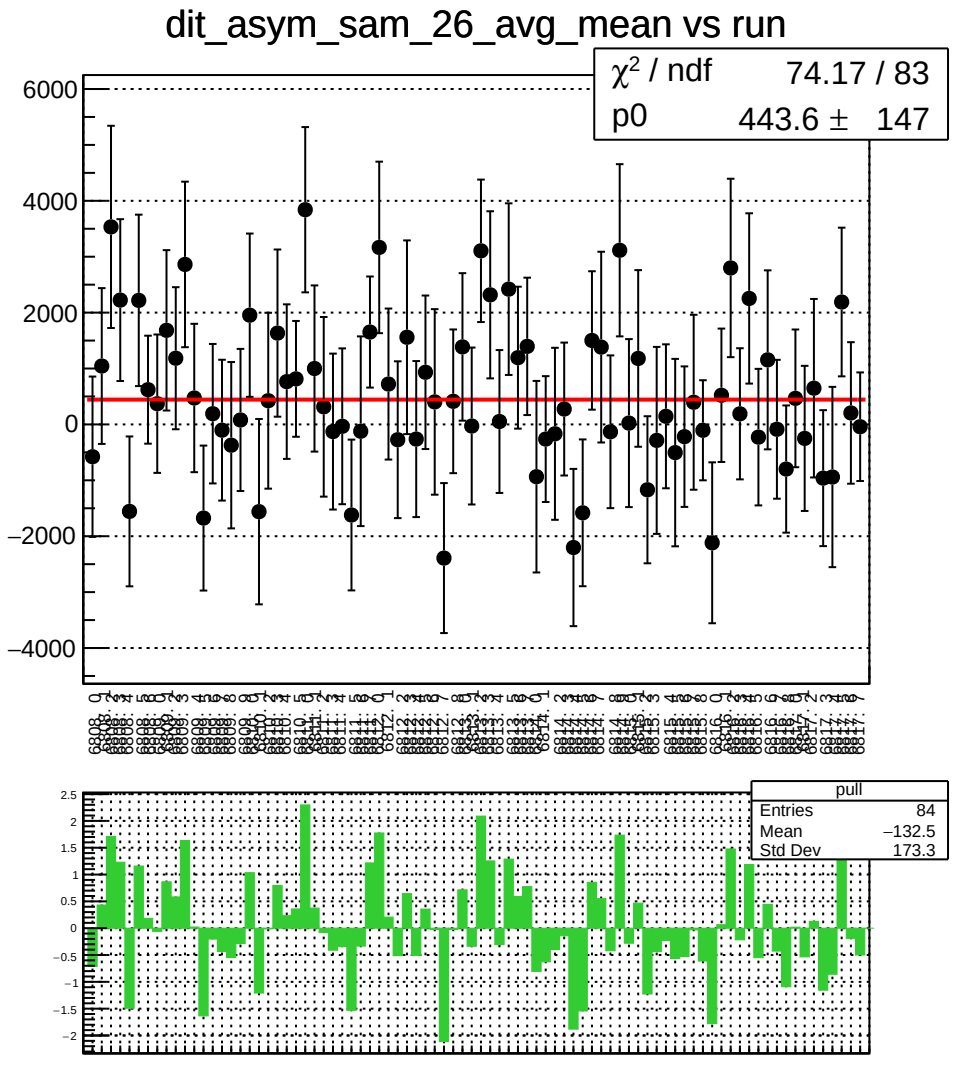

pull1D
Entries 84
Mean 0.003729
Std Dev 0.915
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

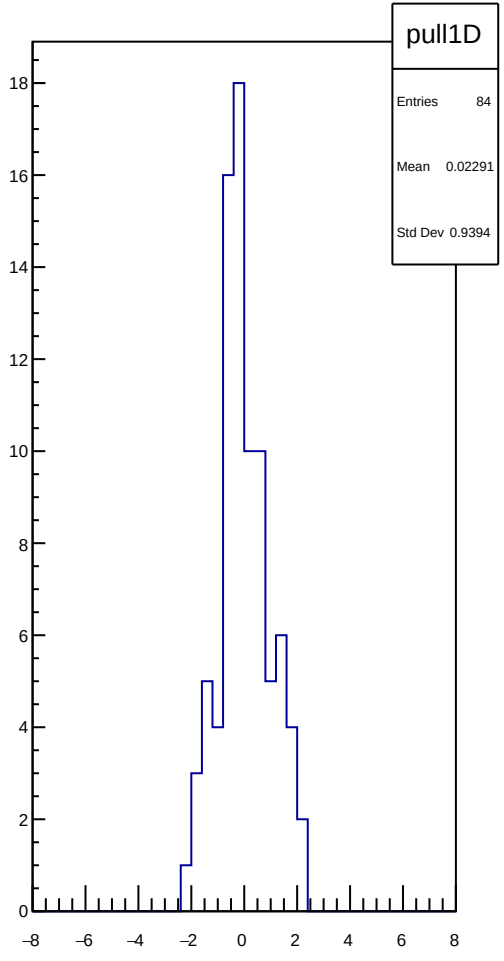

asym_sam_15_avg_correction_rms vs run
χ² / ndf 2588 / 83
p0 291.7 ± 0.2303
330
320
310
300
290
280
270

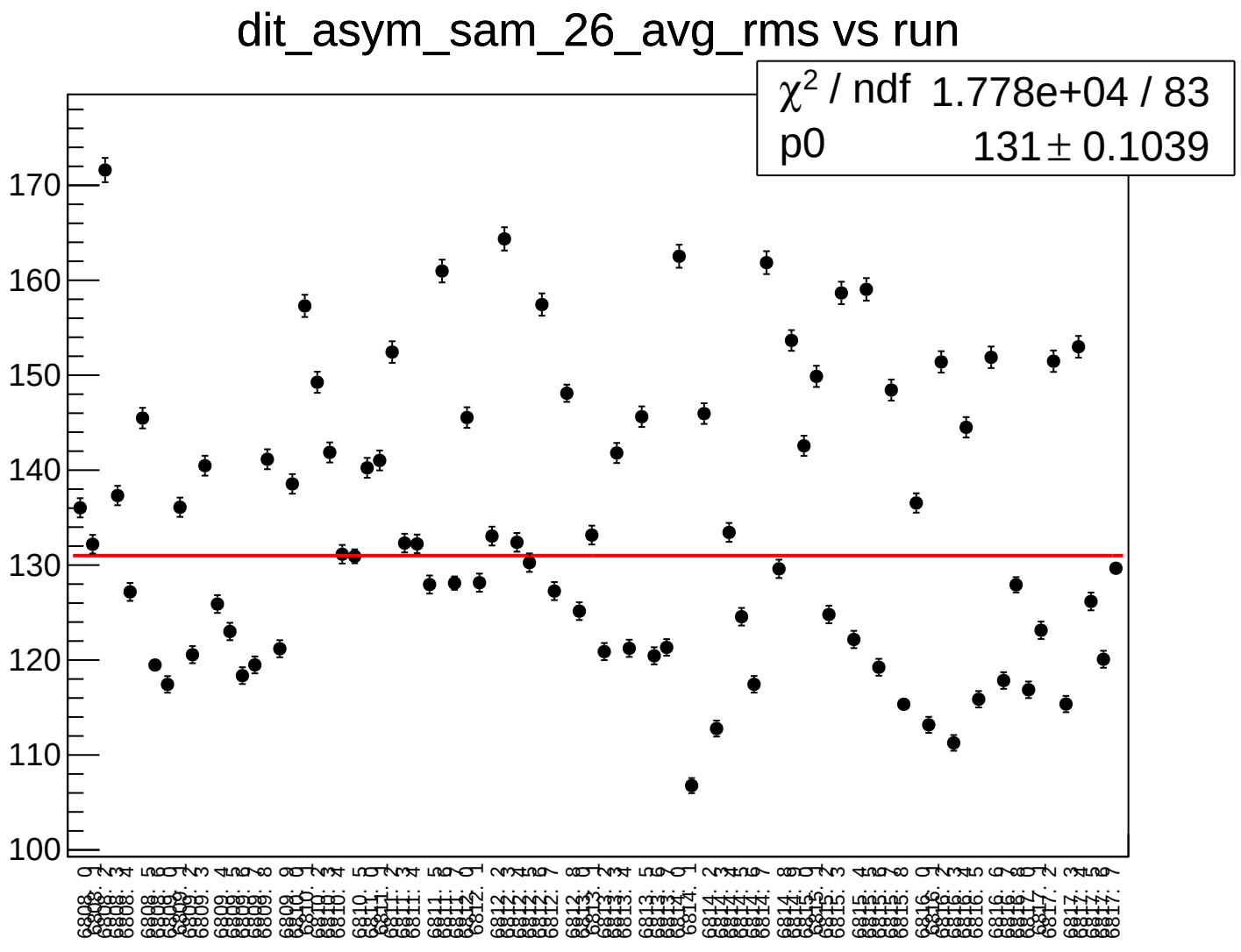

asym_sam_15_avg_mean vs run
χ^2 / ndf 69.46 / 83
p0 313.3 ± 318.4
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 323.1
Std Dev 276.6
3
2
1
0
−1
−2

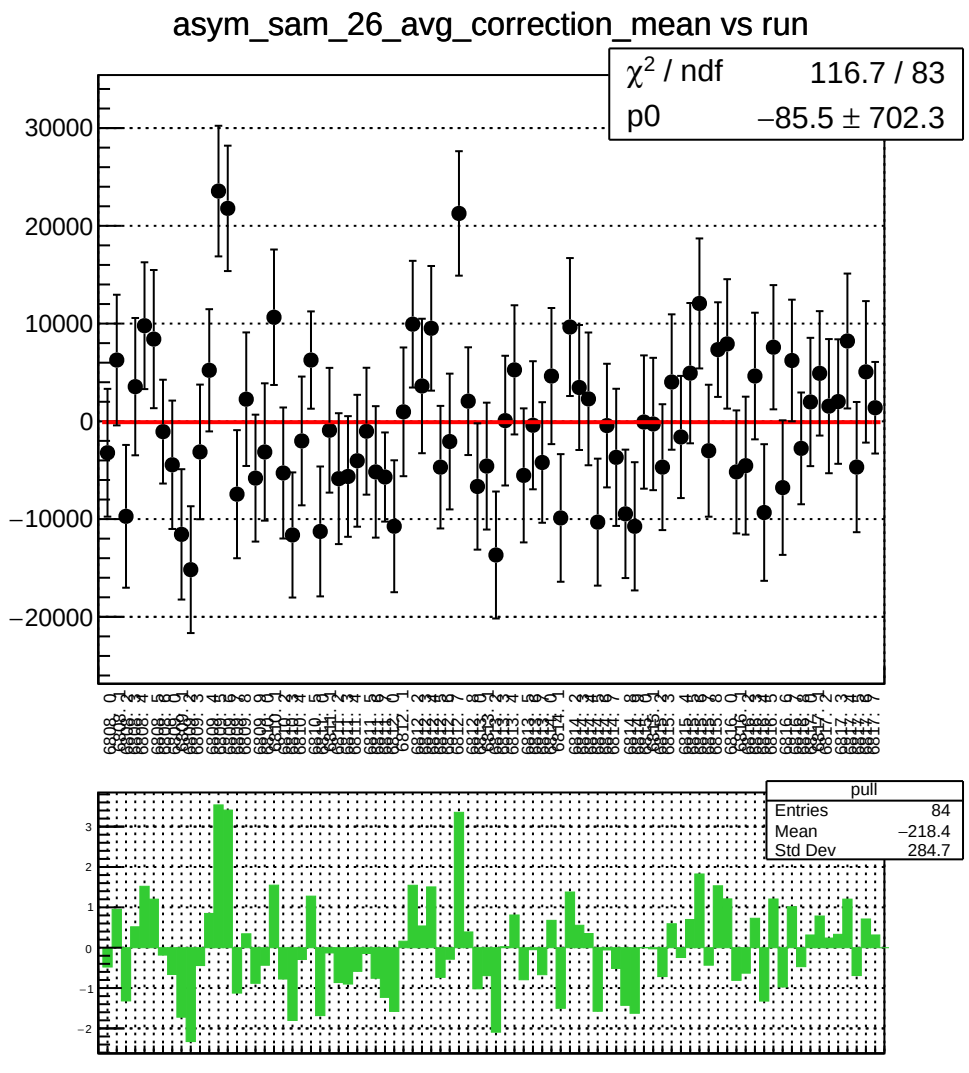

pull1D
Entries 84
Mean −0.004046
Std Dev 0.9093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

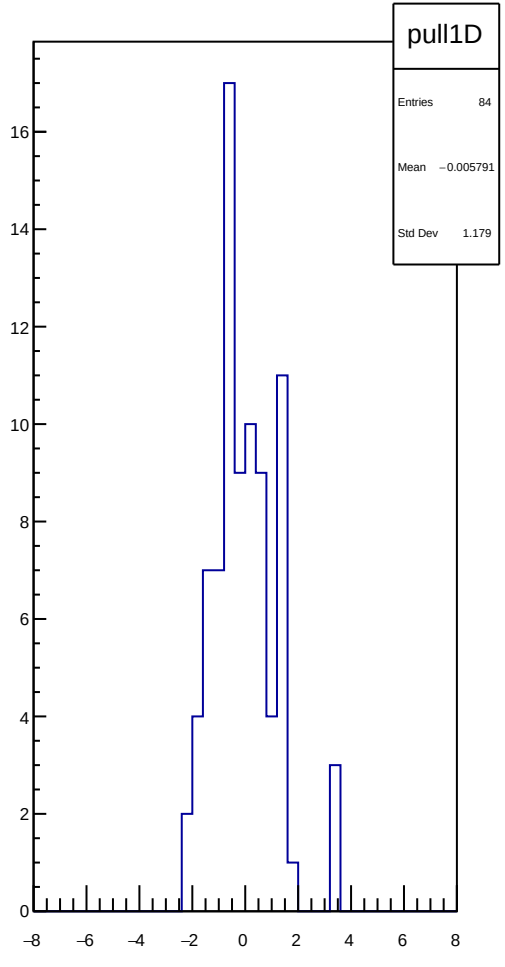

asym_sam_15_avg_rms vs run
χ^2 / ndf 2778 / 83
p0 285.1 ± 0.2251
310
300
290
280
270
260
250

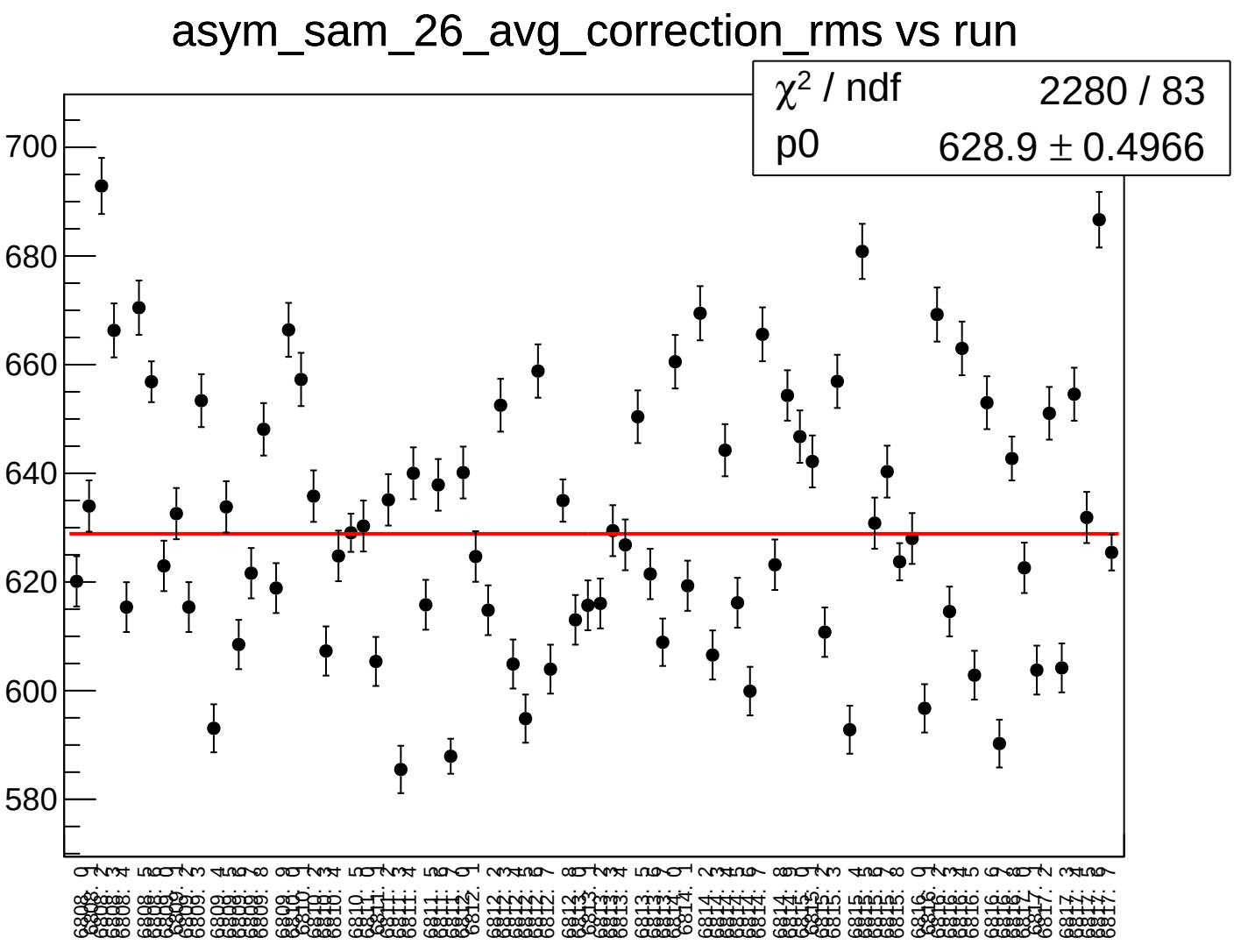

dit_asym_sam_26_avg_mean vs run
χ² / ndf 74.17 / 83
p0 443.6 ± 147
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −132.5
Std Dev 173.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

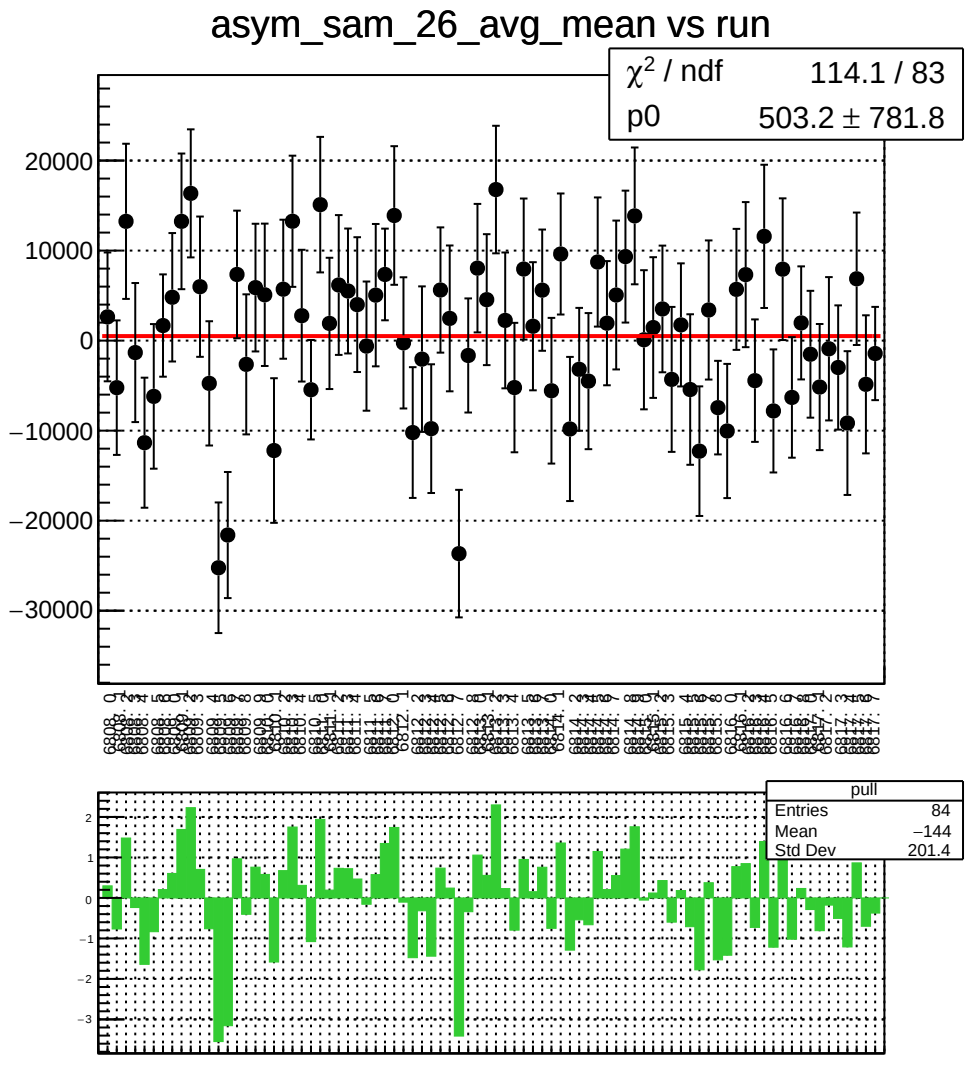

pull1D
Entries 84
Mean 0.02291
Std Dev 0.9394
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

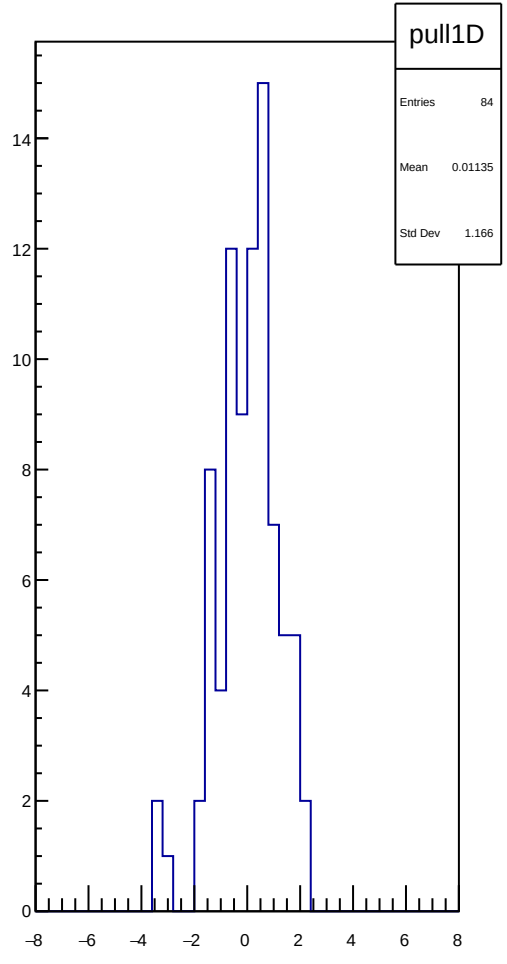

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.778e+04 / 83
p0 131 ± 0.1039
170
160
150
140
130
120
110
100

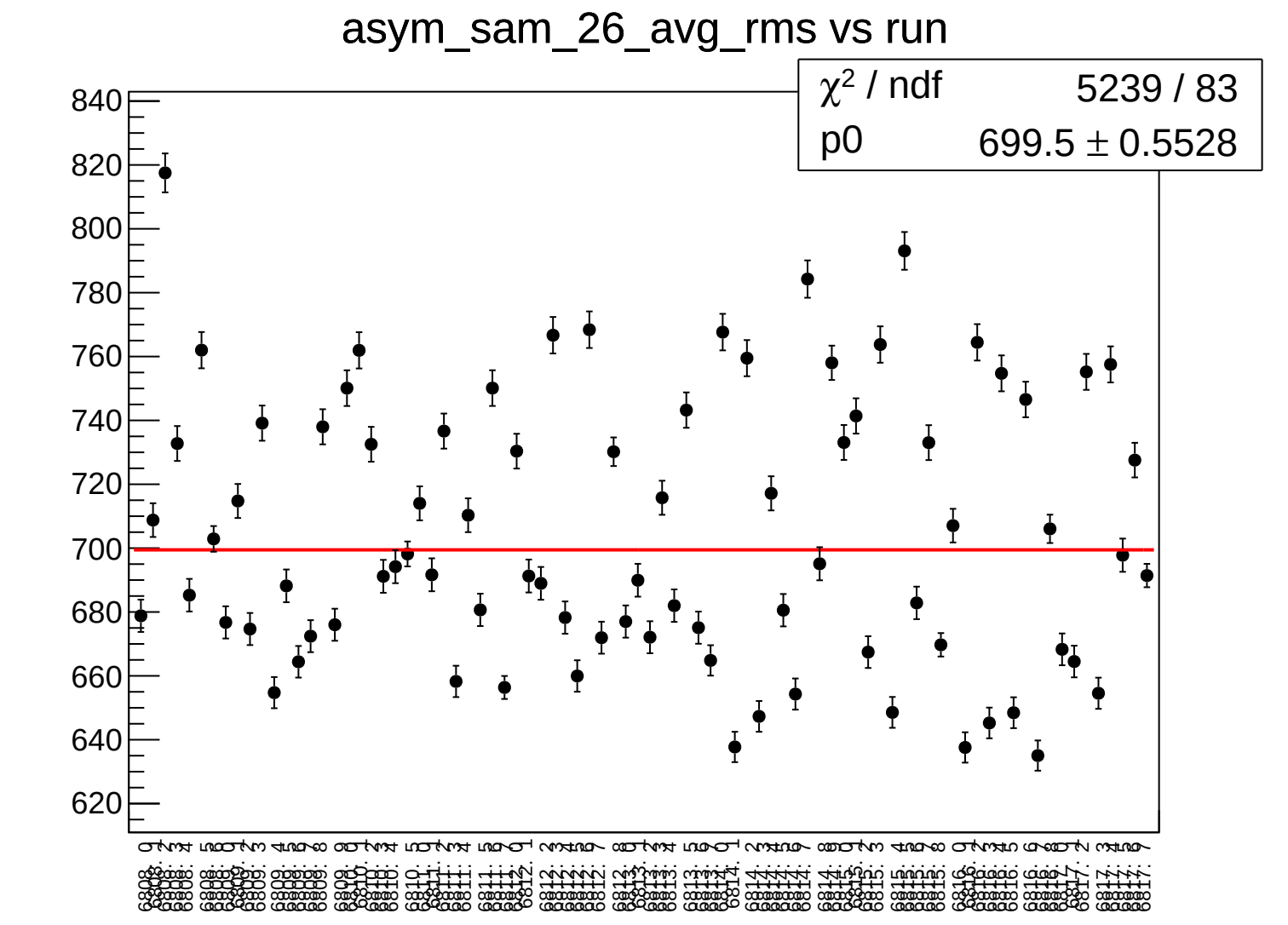

asym_sam_26_avg_correction_mean vs run
χ² / ndf 116.7 / 83
p0 −85.5 ± 702.3
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −218.4
Std Dev 284.7
3
2
1
0
−1
−2

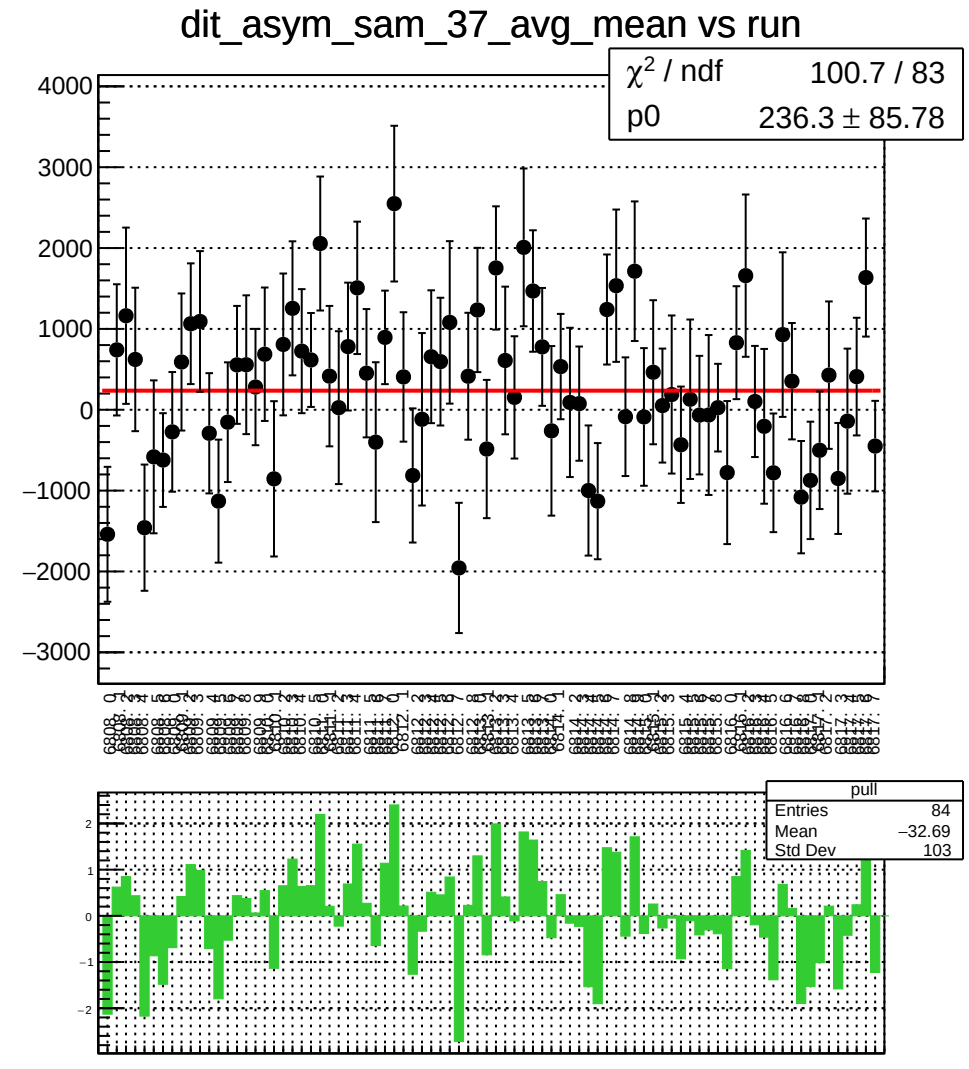

pull1D
Entries 84
Mean −0.005791
Std Dev 1.179
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

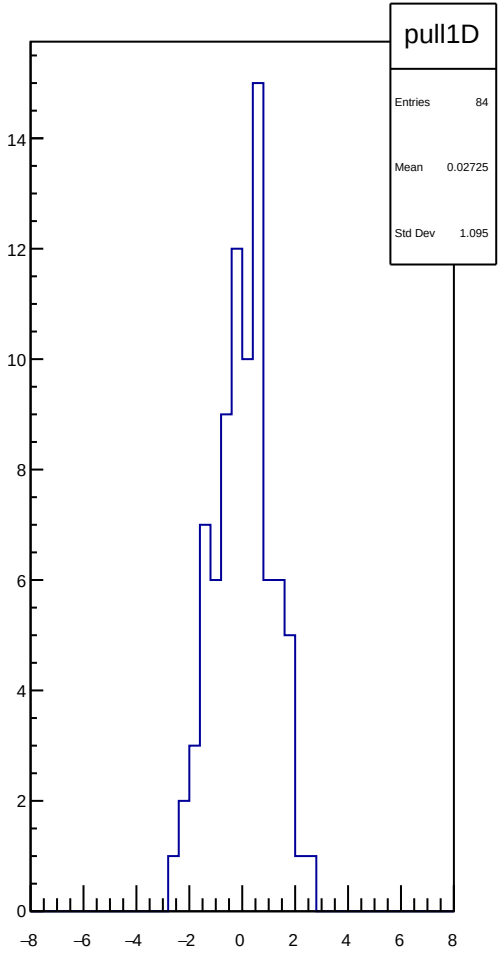

asym_sam_26_avg_correction_rms vs run
χ² / ndf 2280 / 83
p0 628.9 ± 0.4966
700
680
660
640
620
600
580

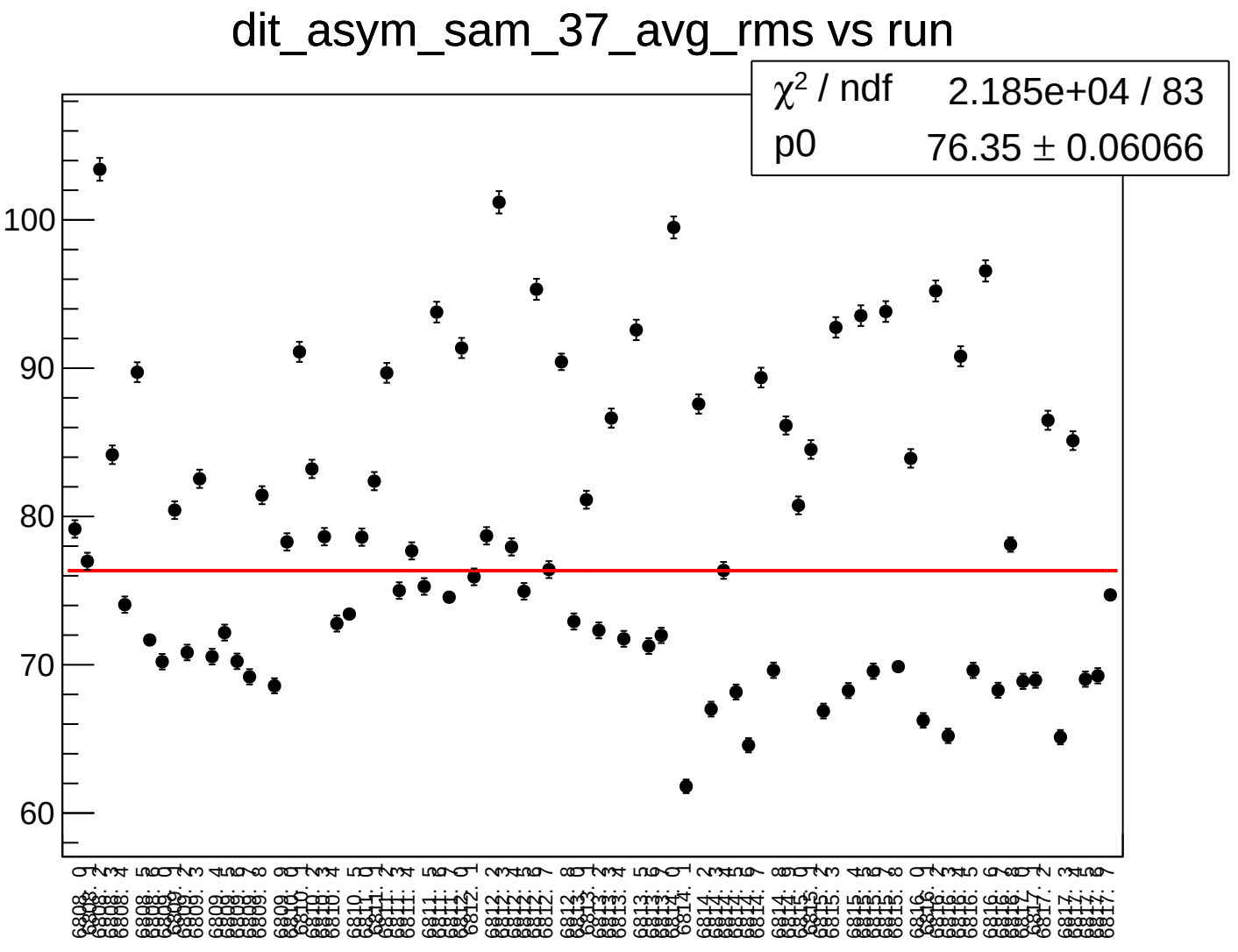

asym_sam_26_avg_mean vs run
χ² / ndf 114.1 / 83
p0 503.2 ± 781.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −144
Std Dev 201.4
2
1
0
−1
−2
−3

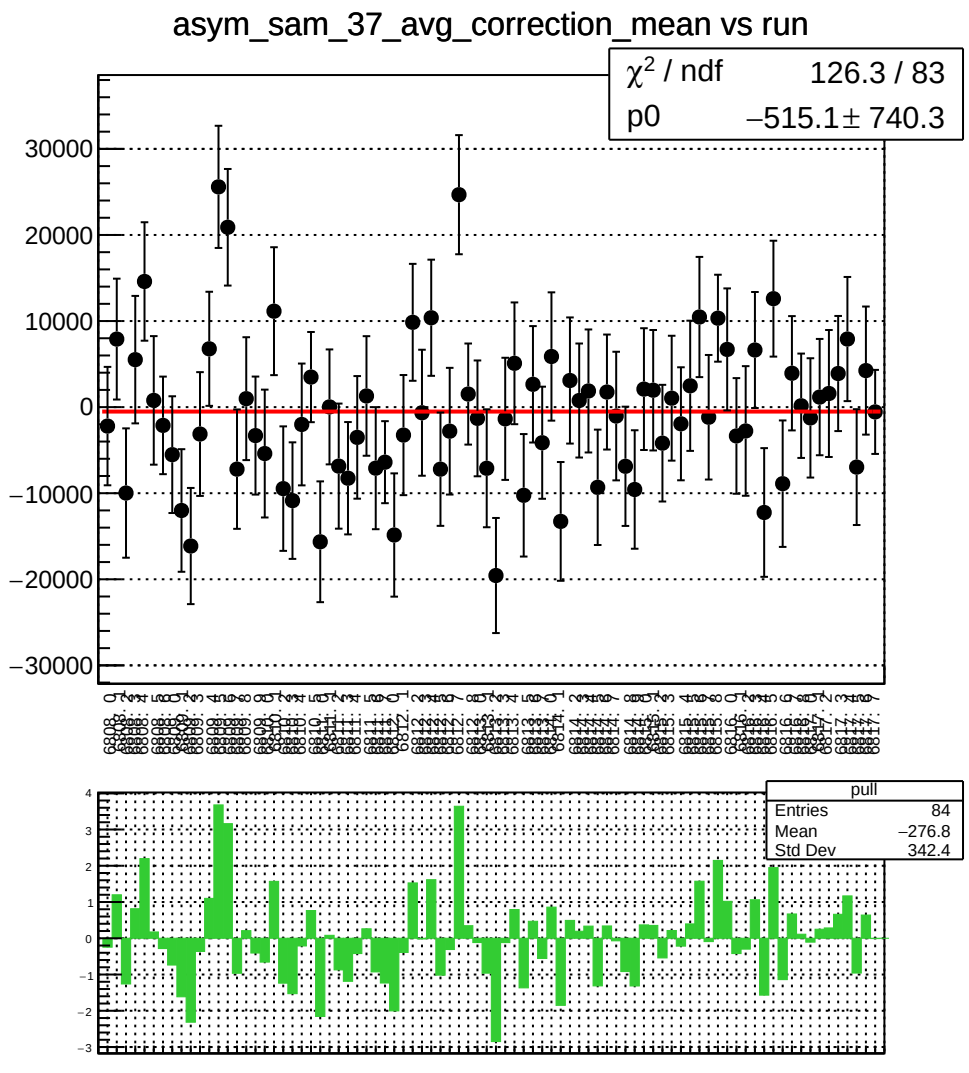

pull1D
Entries 84
Mean 0.01135
Std Dev 1.166
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

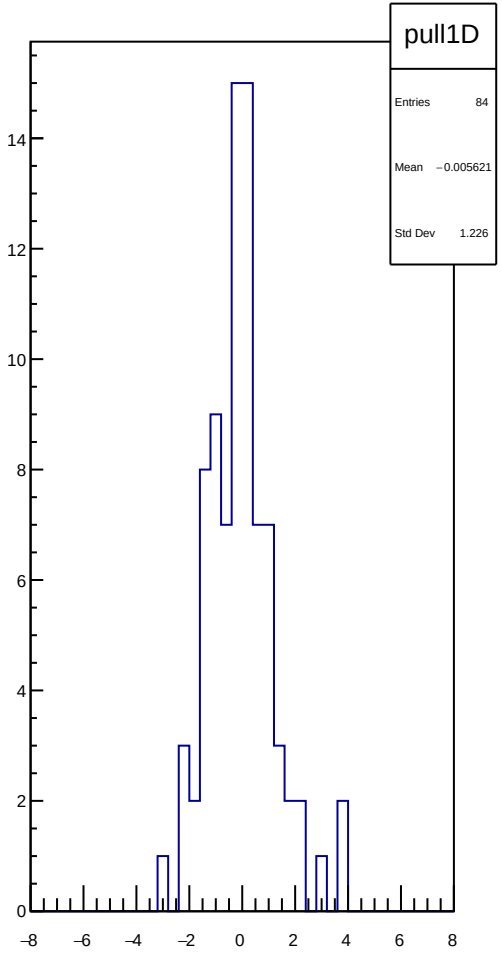

asym_sam_26_avg_rms vs run
χ² / ndf 5239 / 83
p0 699.5 ± 0.5528
840
820
800
780
760
740
720
700
680
660
640
620

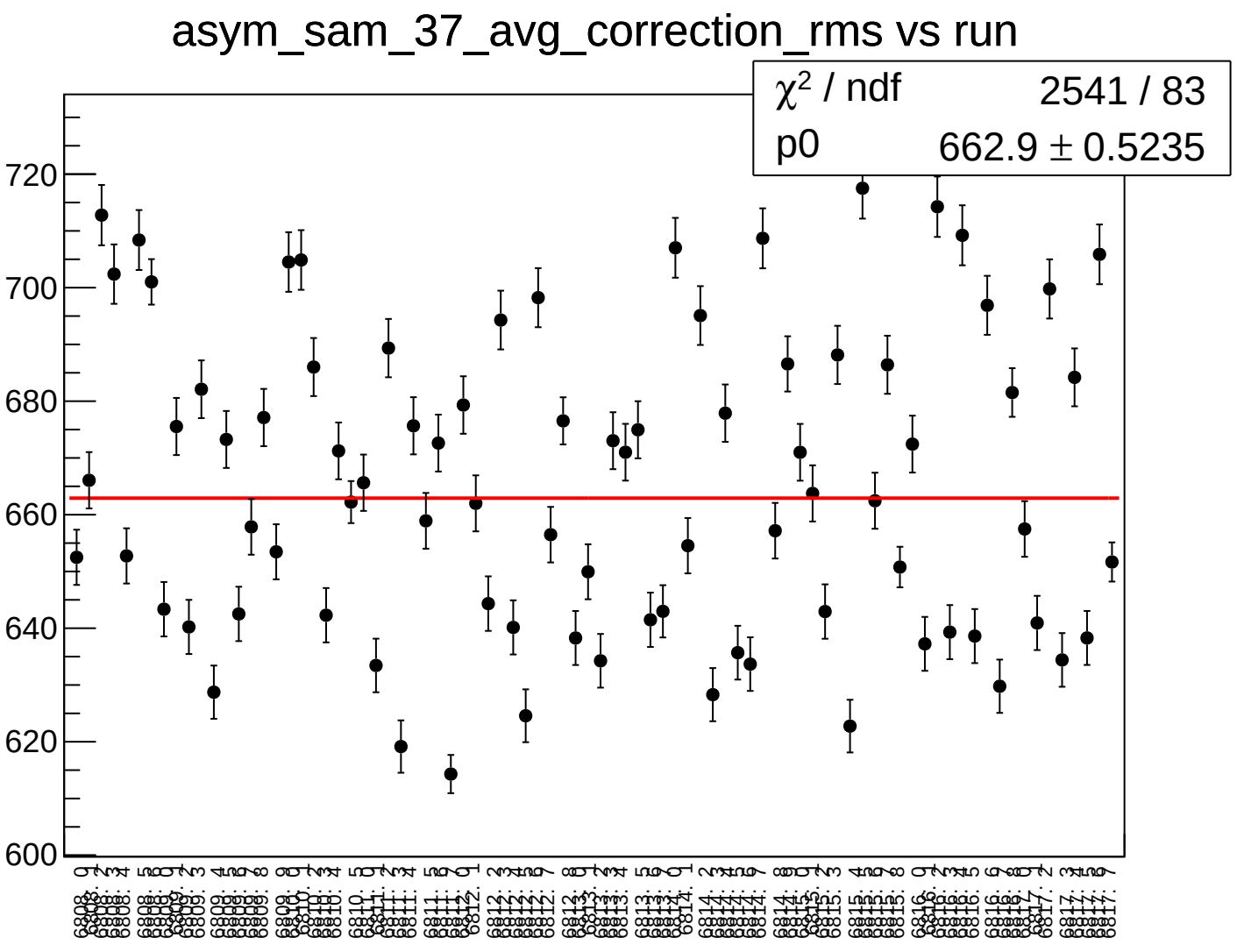

dit_asym_sam_37_avg_mean vs run
χ^2 / ndf 100.7 / 83
p0 236.3 ± 85.78
pull
Entries 84
Mean −32.69
Std Dev 103

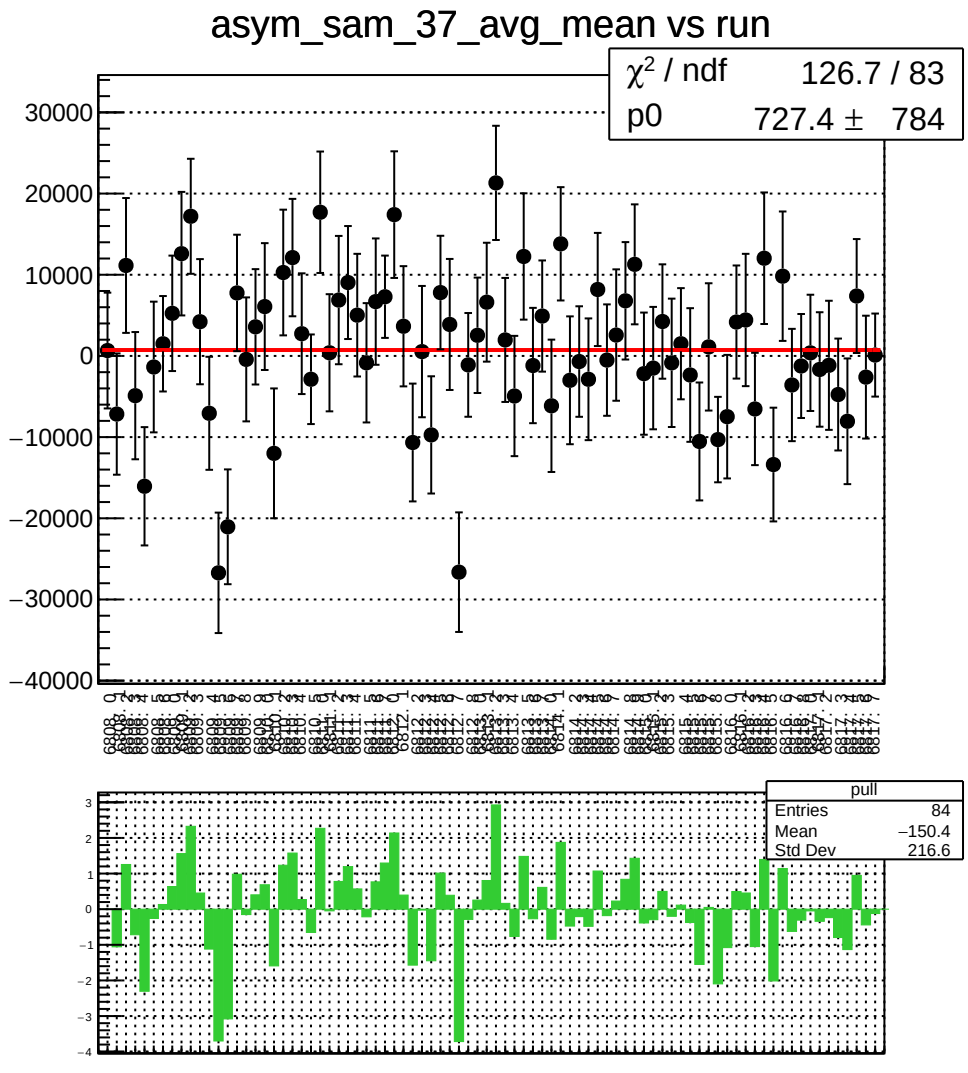

pull1D
Entries 84
Mean 0.02725
Std Dev 1.095

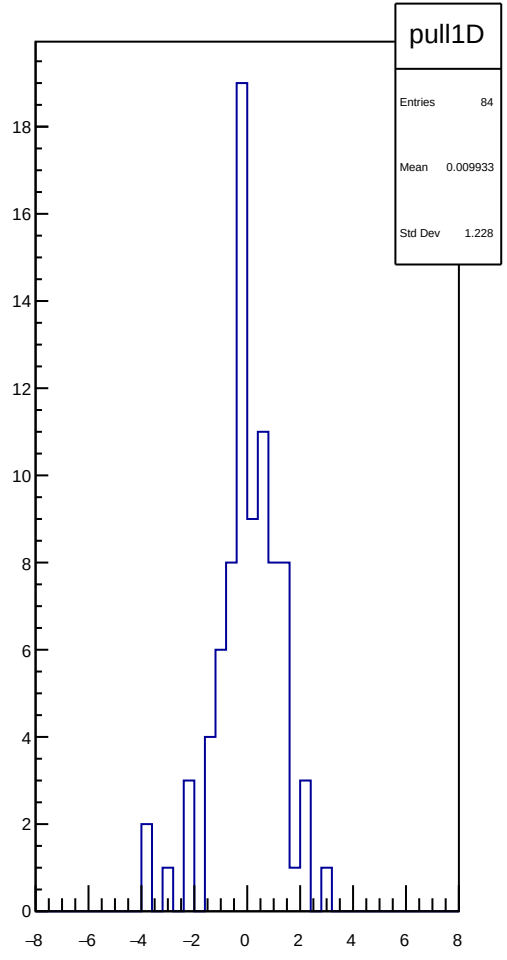

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.185e+04 / 83
p0 76.35 ± 0.06066
100
90
80
70
60

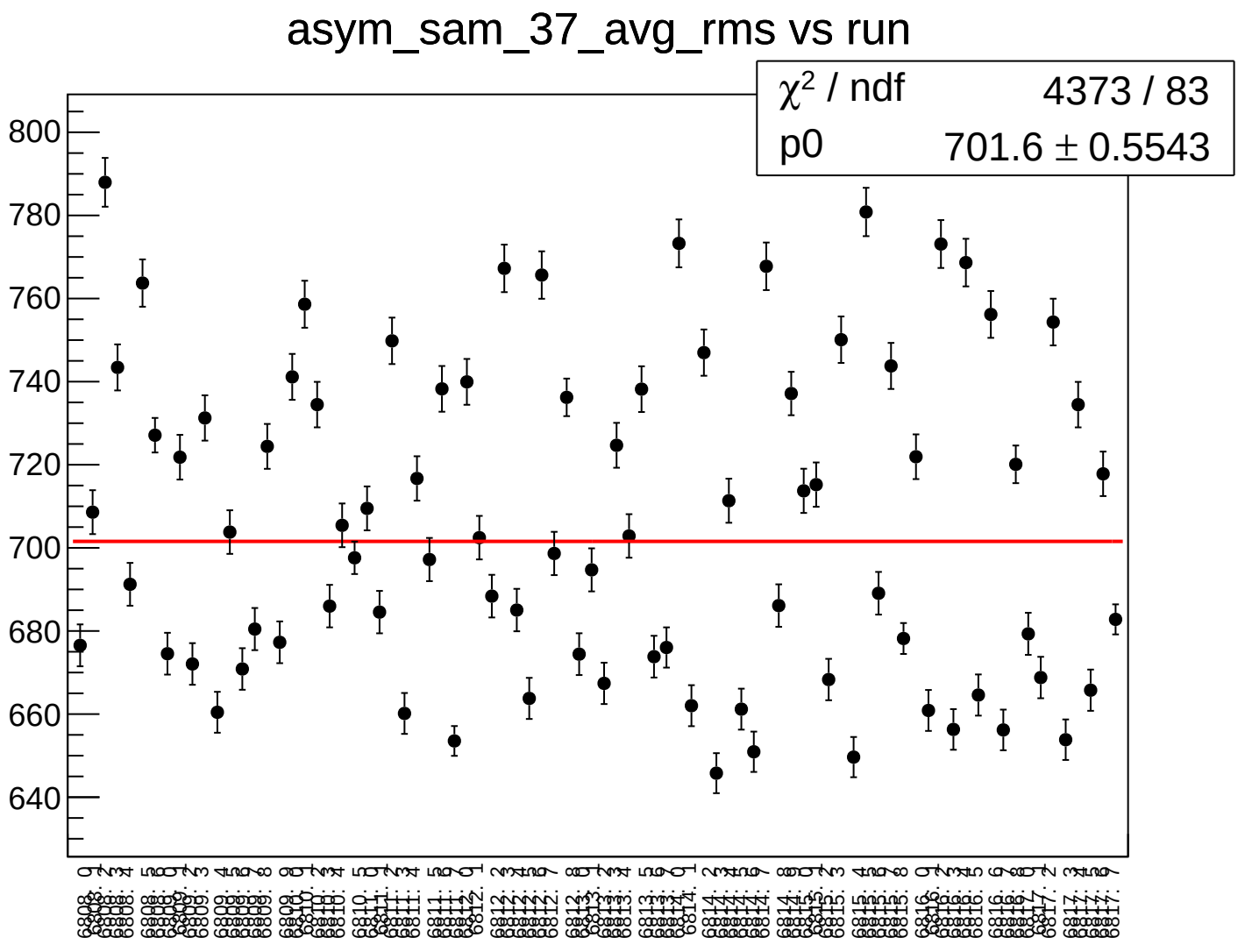

asym_sam_37_avg_correction_mean vs run
χ² / ndf 126.3 / 83
p0 −515.1± 740.3
pull
Entries 84
Mean −276.8
Std Dev 342.4

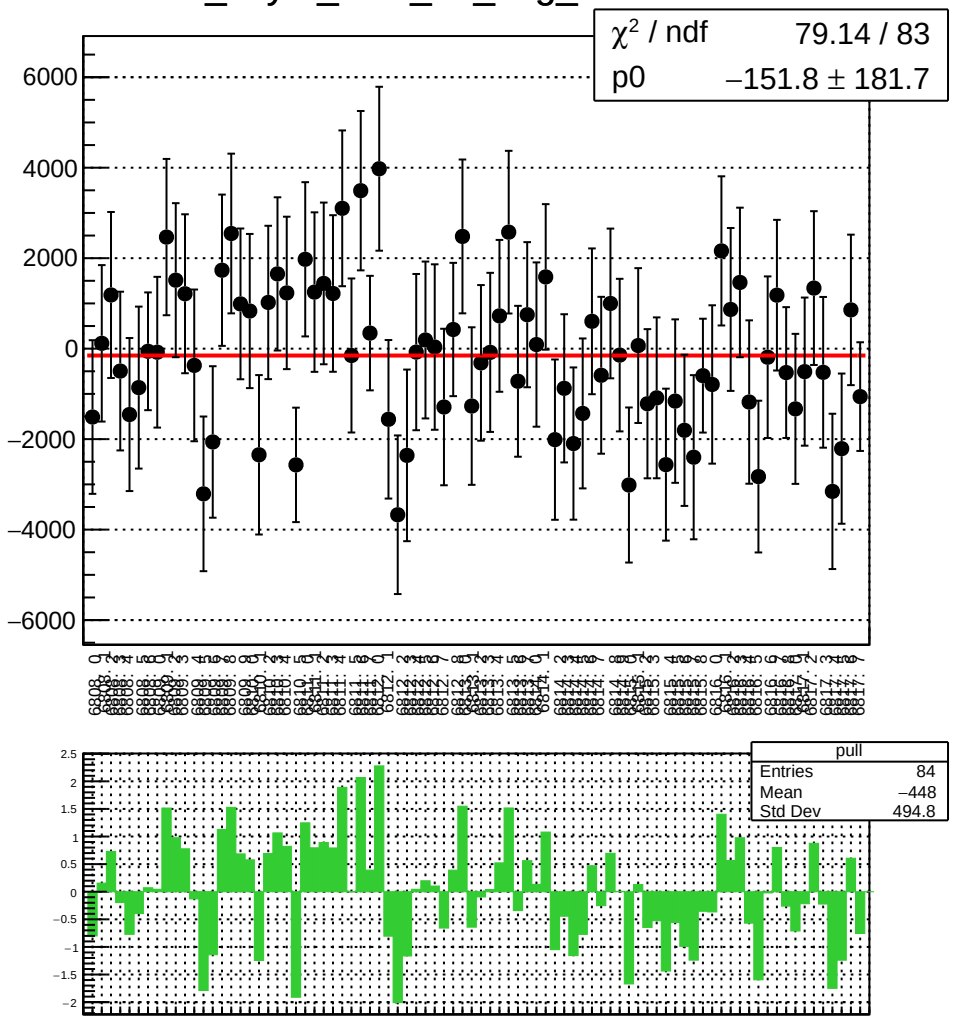

pull1D
Entries 84
Mean −0.005621
Std Dev 1.226

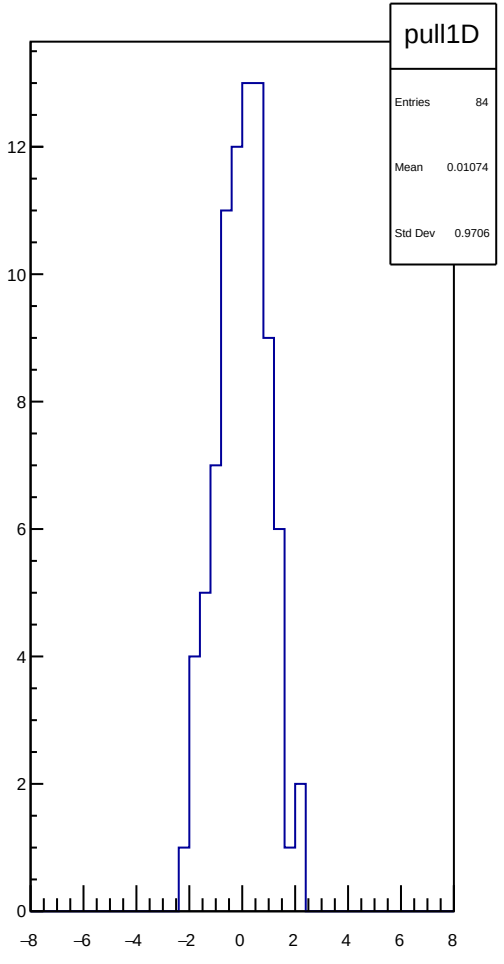

asym_sam_37_avg_correction_rms vs run
χ² / ndf 2541 / 83
p0 662.9 ± 0.5235
720
700
680
660
640
620
600

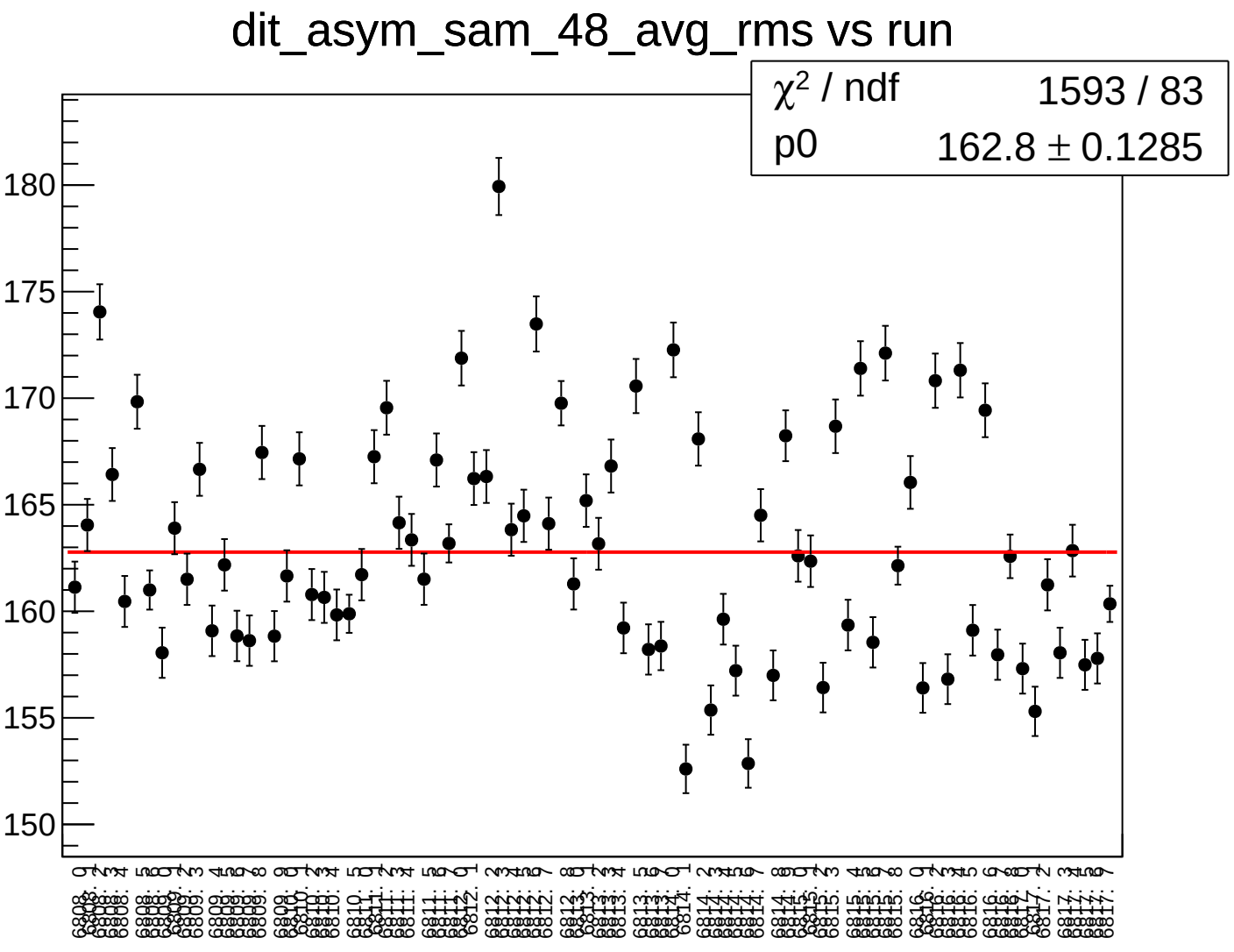

asym_sam_37_avg_mean vs run
χ² / ndf 126.7 / 83
p0 727.4 ± 784
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −150.4
Std Dev 216.6
3
2
1
0
−1
−2
−3
−4

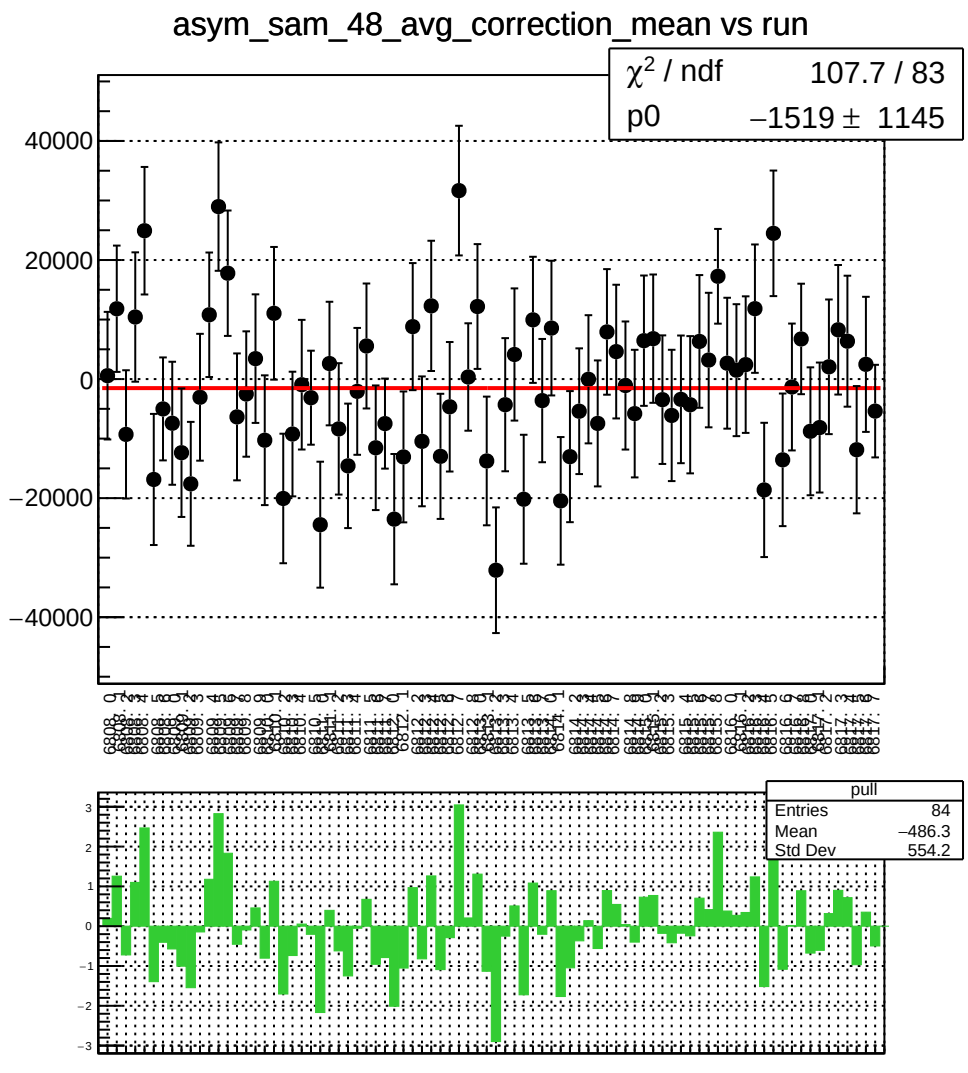

pull1D
Entries 84
Mean 0.009933
Std Dev 1.228
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

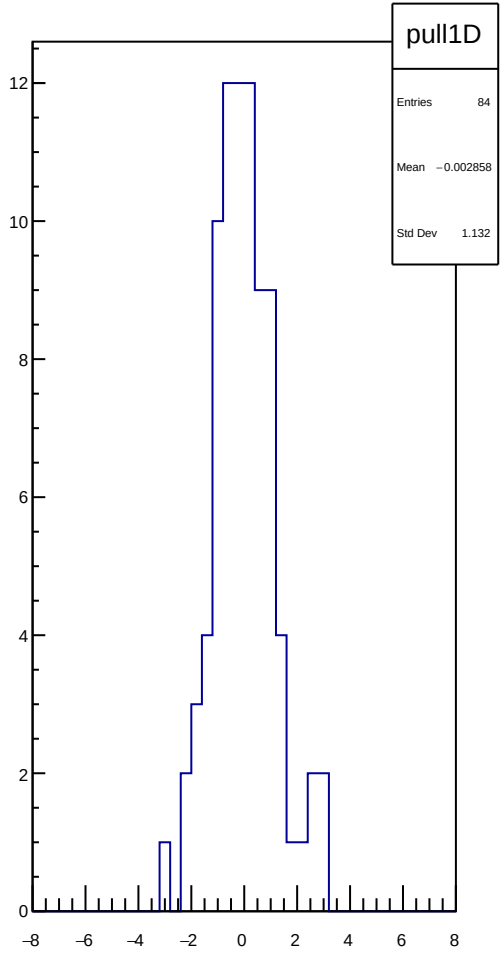

asym_sam_37_avg_rms vs run
χ² / ndf 4373 / 83
p0 701.6 ± 0.5543
800
780
760
740
720
700
680
660
640

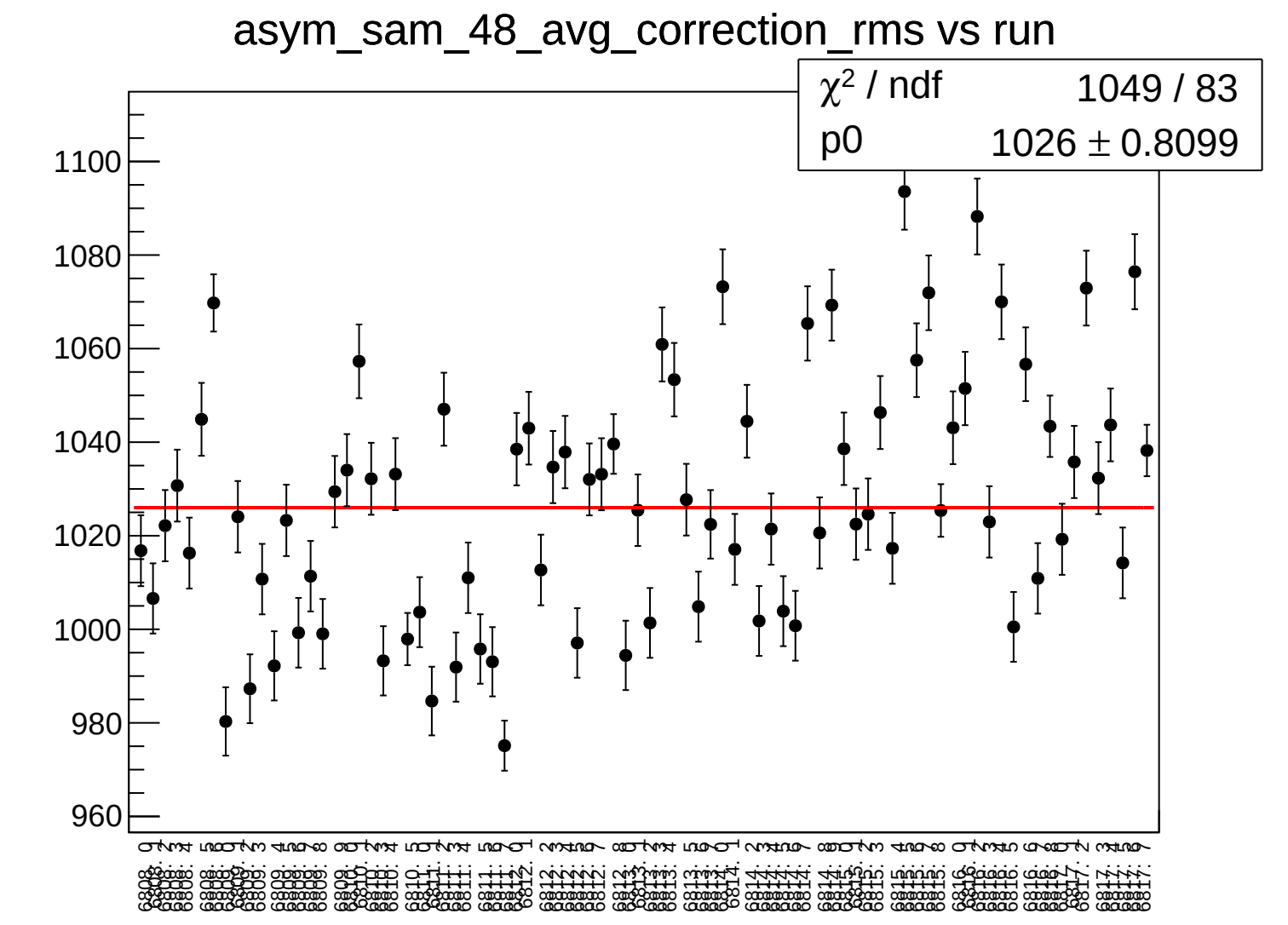

dit_asym_sam_48_avg_mean vs run
χ² / ndf 79.14 / 83
p0 −151.8 ± 181.7
pull
Entries 84
Mean −448
Std Dev 494.8

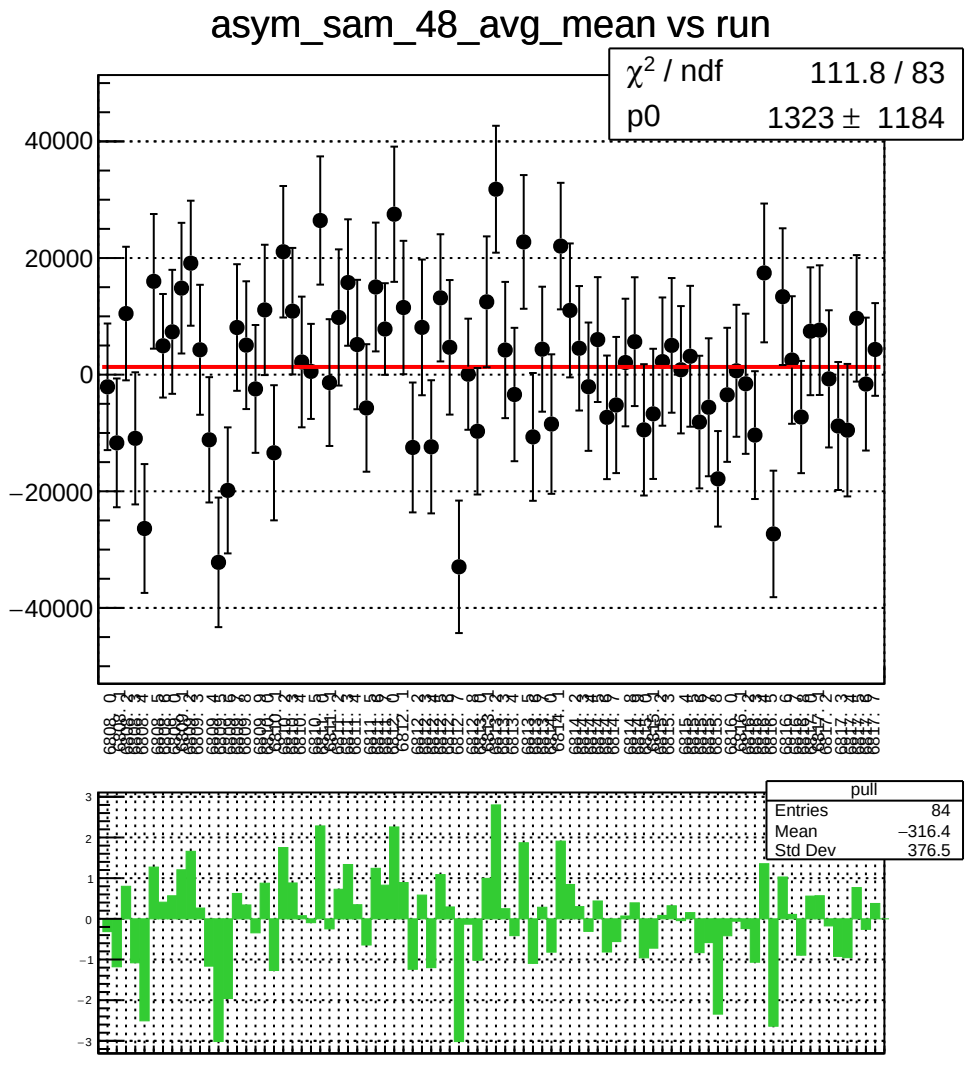

pull1D
Entries 84
Mean 0.01074
Std Dev 0.9706

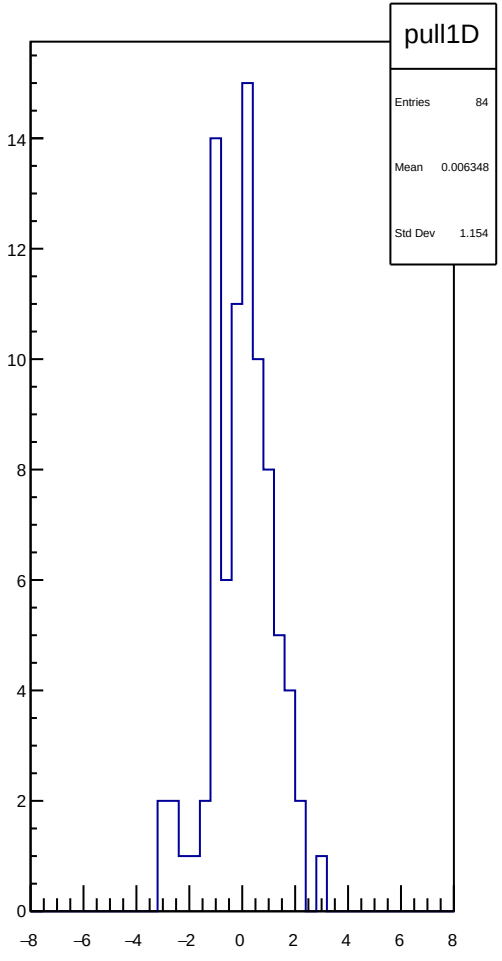

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 1593 / 83
p0 162.8 ± 0.1285
180
175
170
165
160
155
150

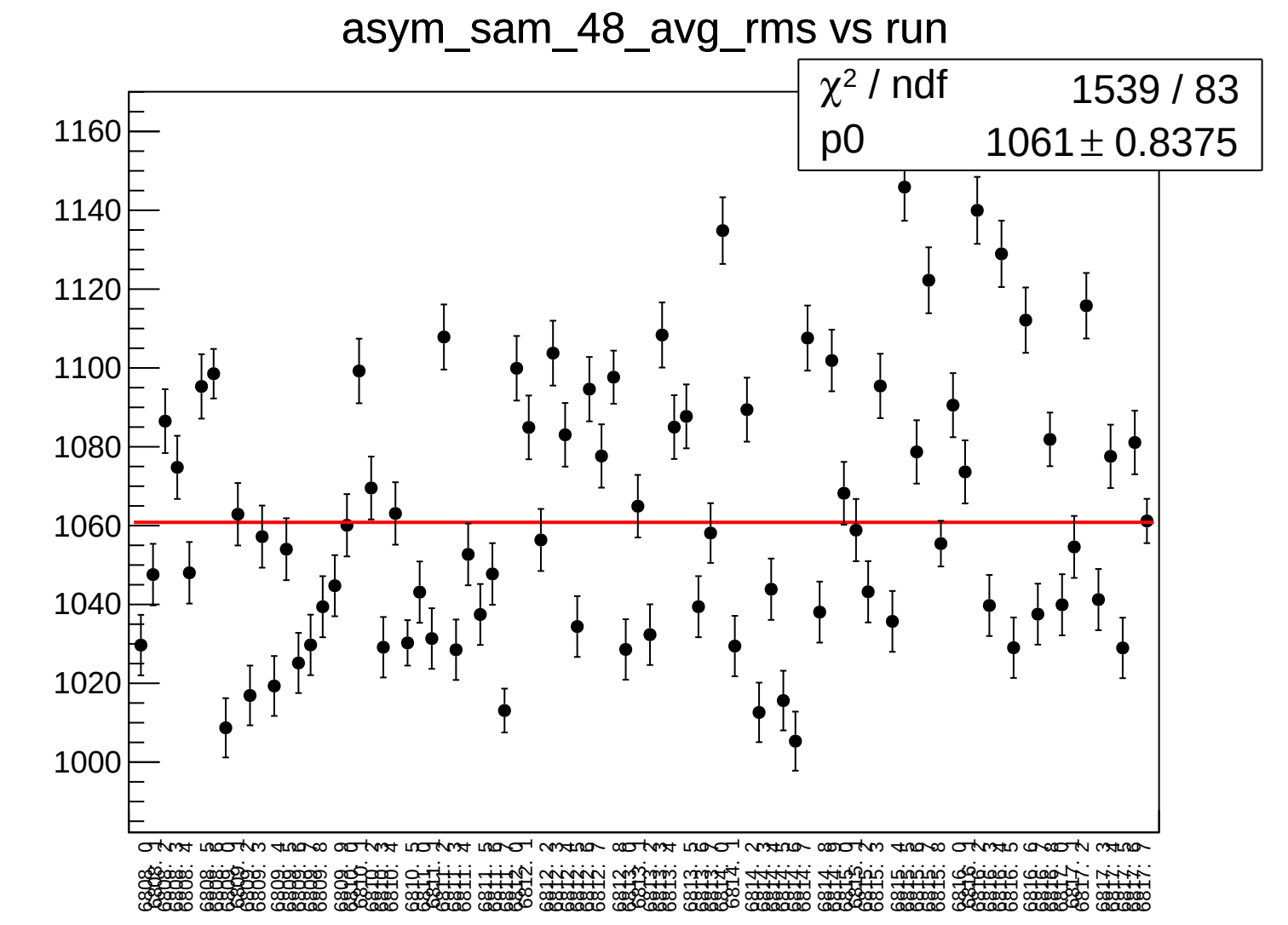

asym_sam_48_avg_correction_mean vs run
χ² / ndf 107.7 / 83
p0 −1519 ± 1145
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −486.3
Std Dev 554.2
3
2
1
0
−1
−2
−3

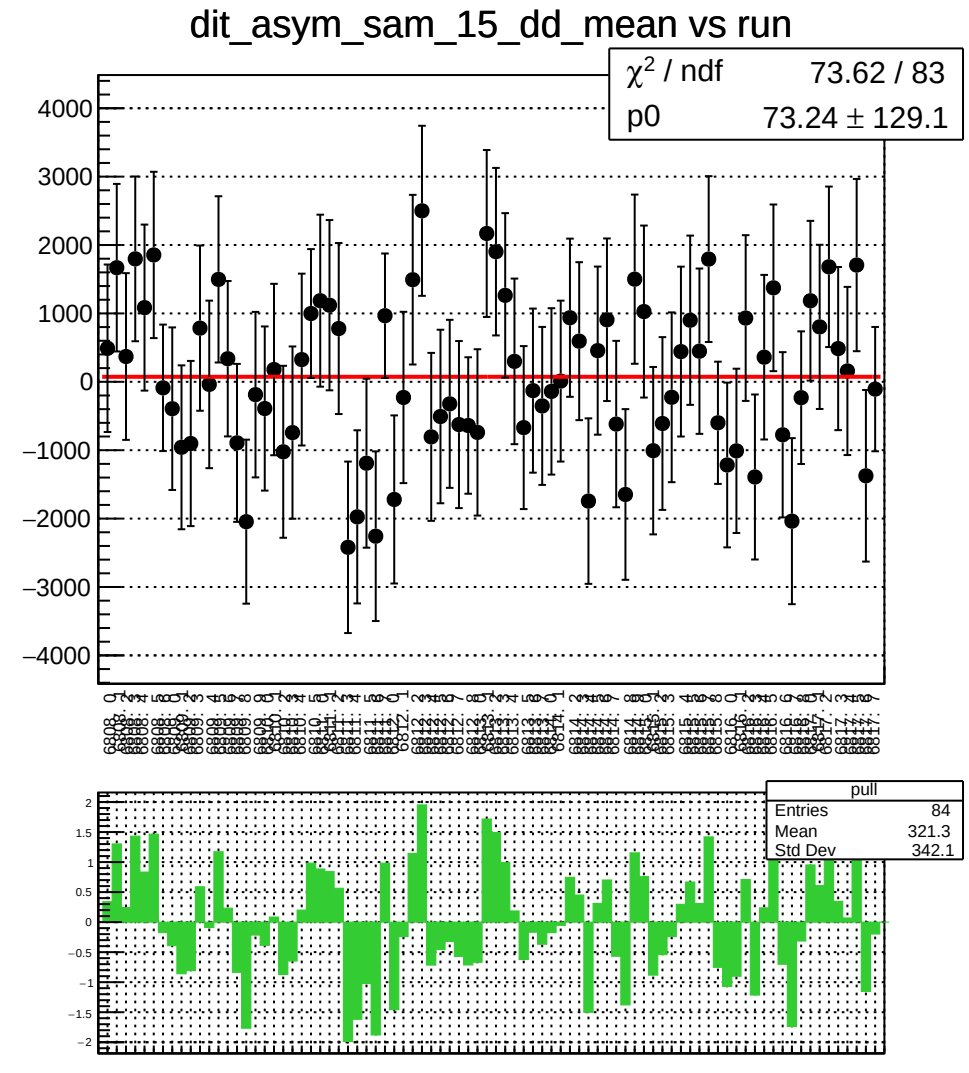

pull1D
Entries 84
Mean −0.002858
Std Dev 1.132
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

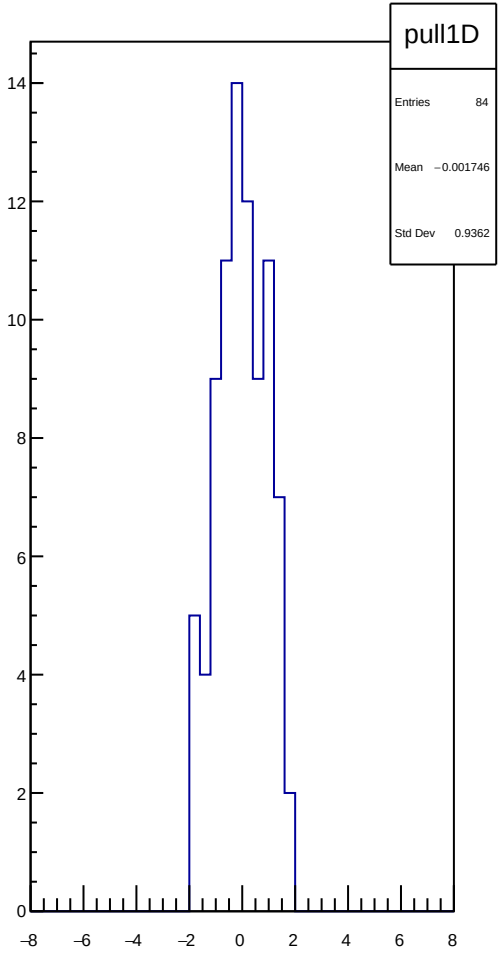

asym_sam_48_avg_correction_rms vs run
χ^2 / ndf 1049 / 83
p0 1026 ± 0.8099
1100
1080
1060
1040
1020
1000
980
960

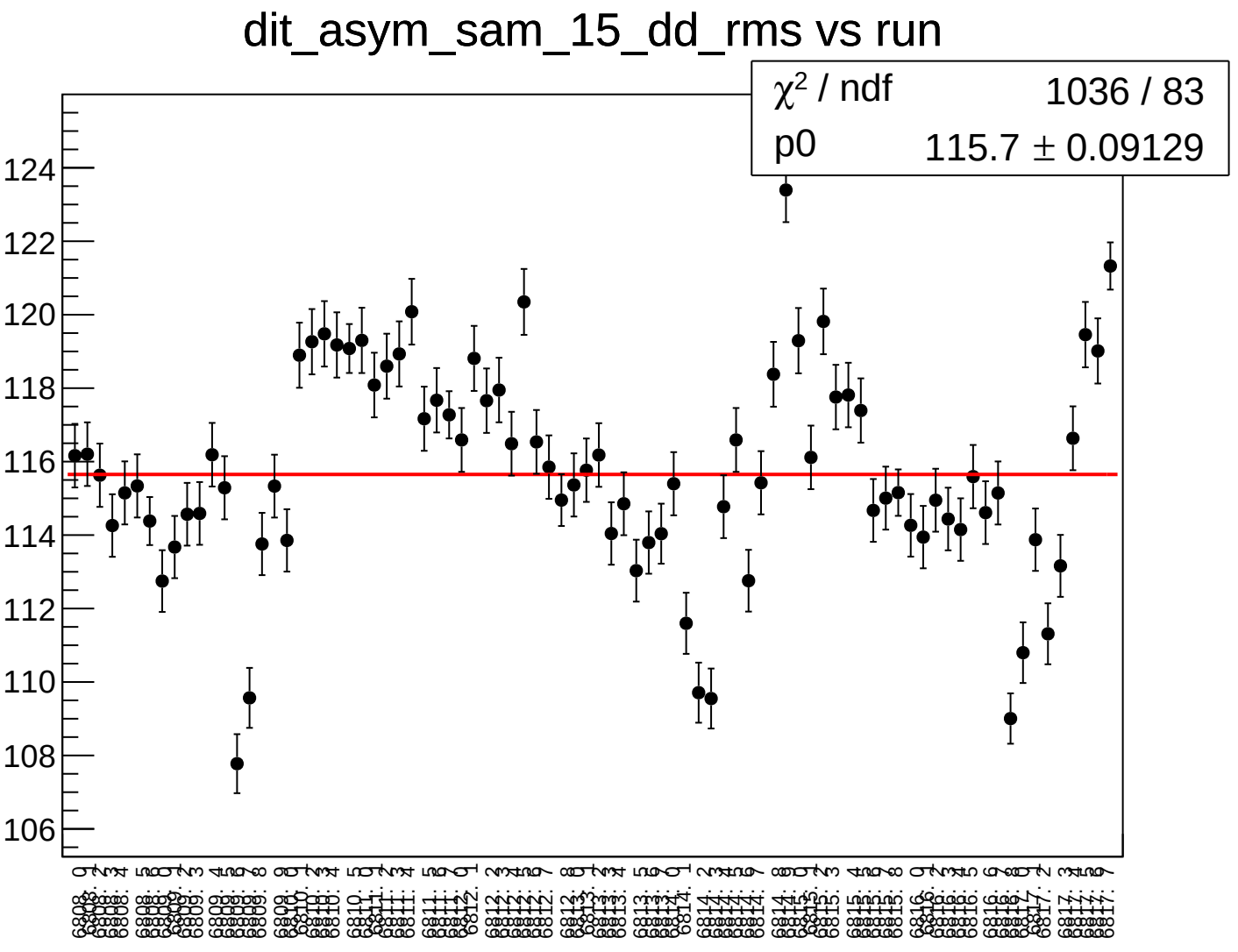

asym_sam_48_avg_mean vs run
χ² / ndf 111.8 / 83
p0 1323 ± 1184
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −316.4
Std Dev 376.5
3
2
1
0
−1
−2
−3

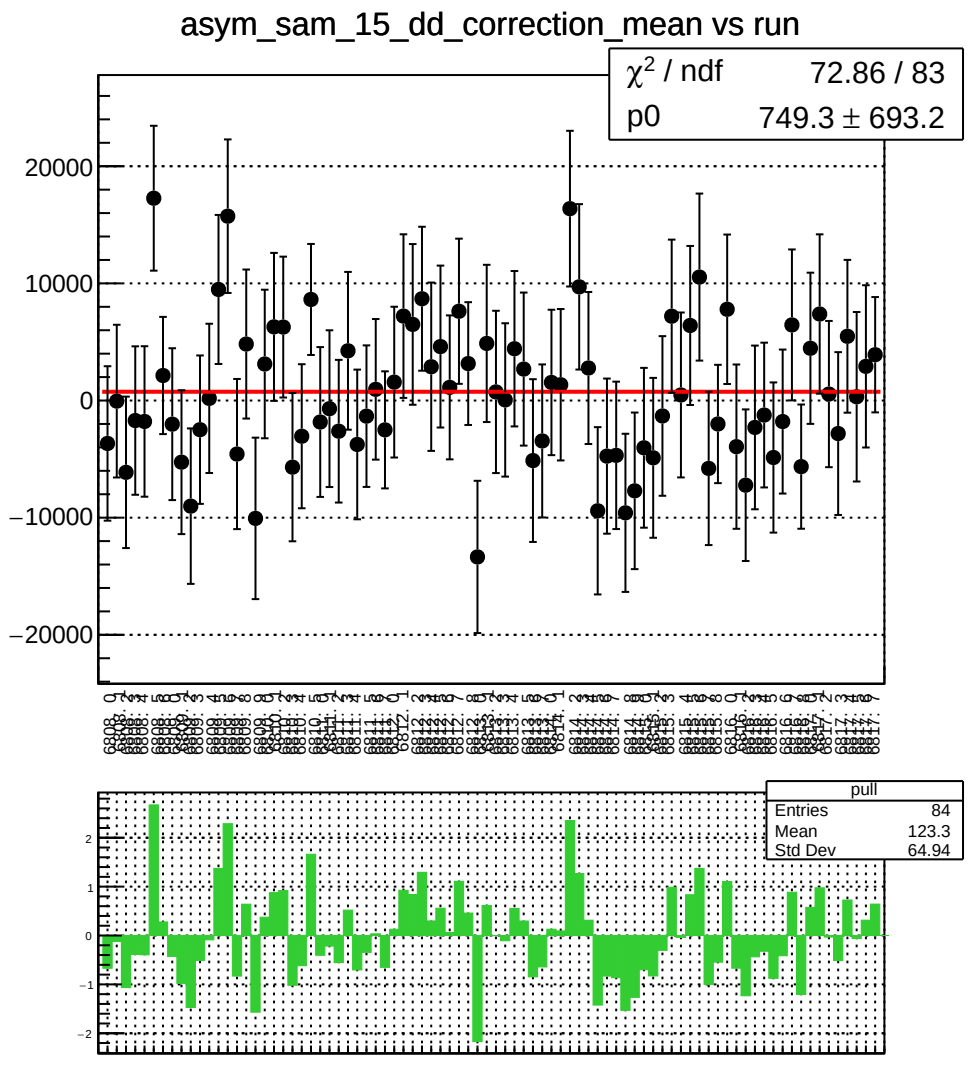

pull1D
Entries 84
Mean 0.006348
Std Dev 1.154
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

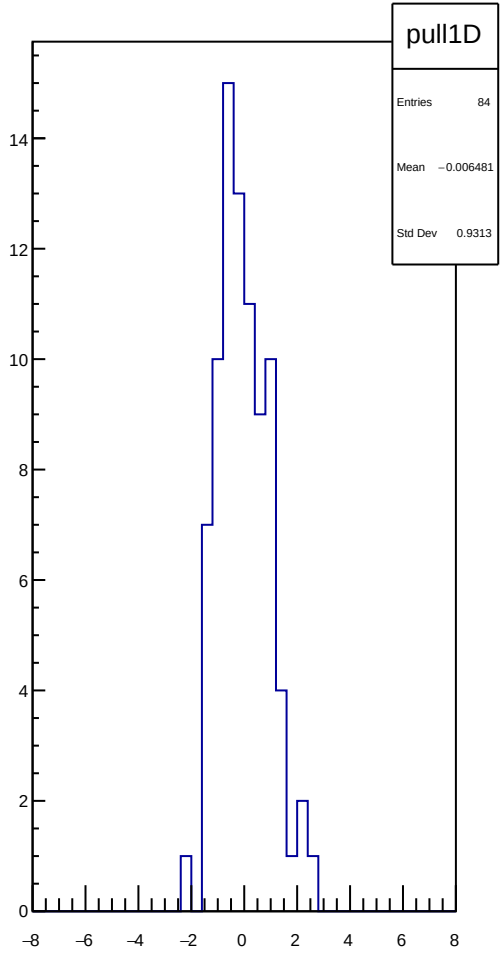

asym_sam_48_avg_rms vs run
χ² / ndf 1539 / 83
p0 1061 ± 0.8375
1160
1140
1120
1100
1080
1060
1040
1020
1000

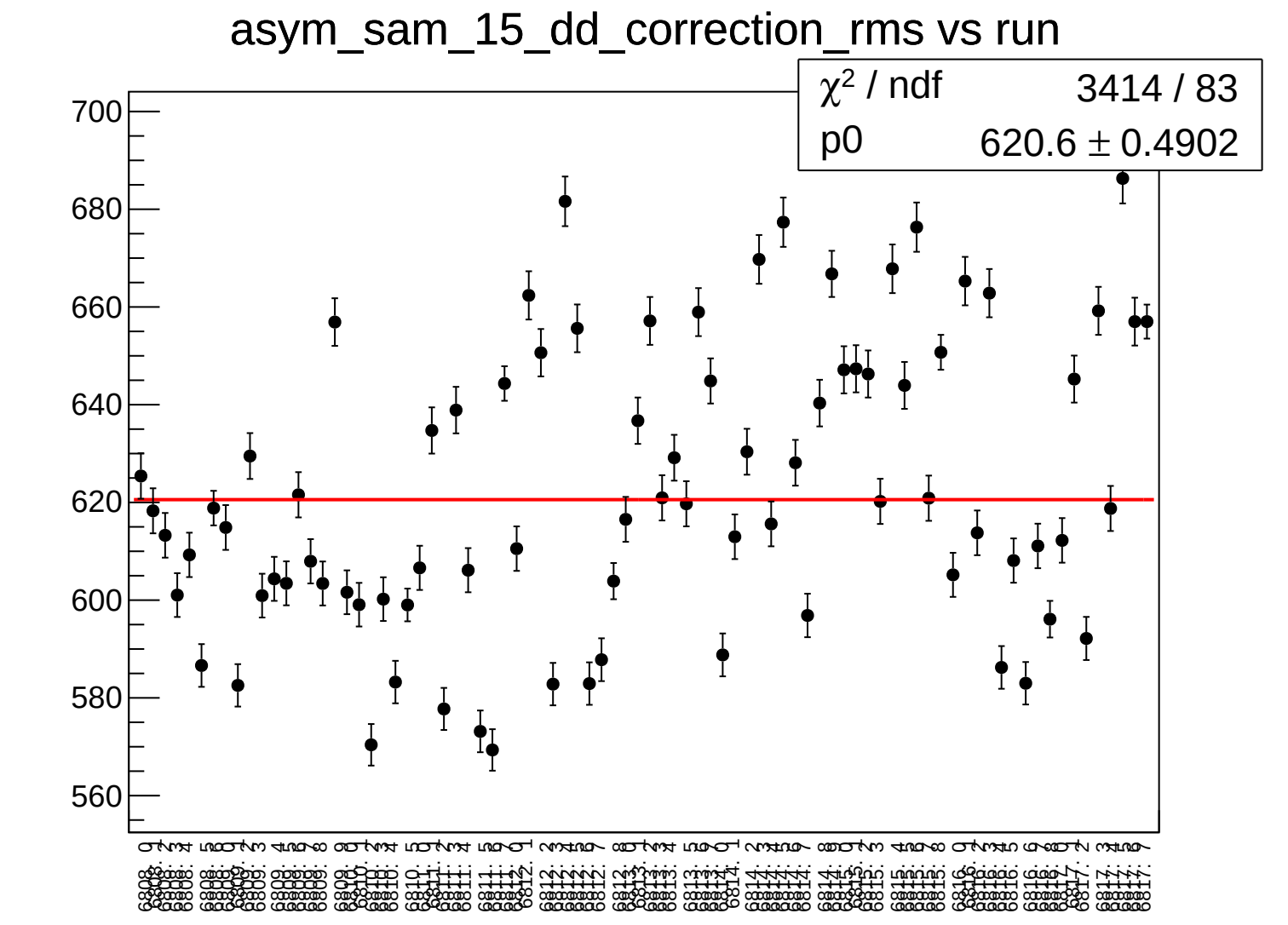

dit_asym_sam_15_dd_mean vs run
χ² / ndf 73.62 / 83
p0 73.24 ± 129.1
pull
Entries 84
Mean 321.3
Std Dev 342.1

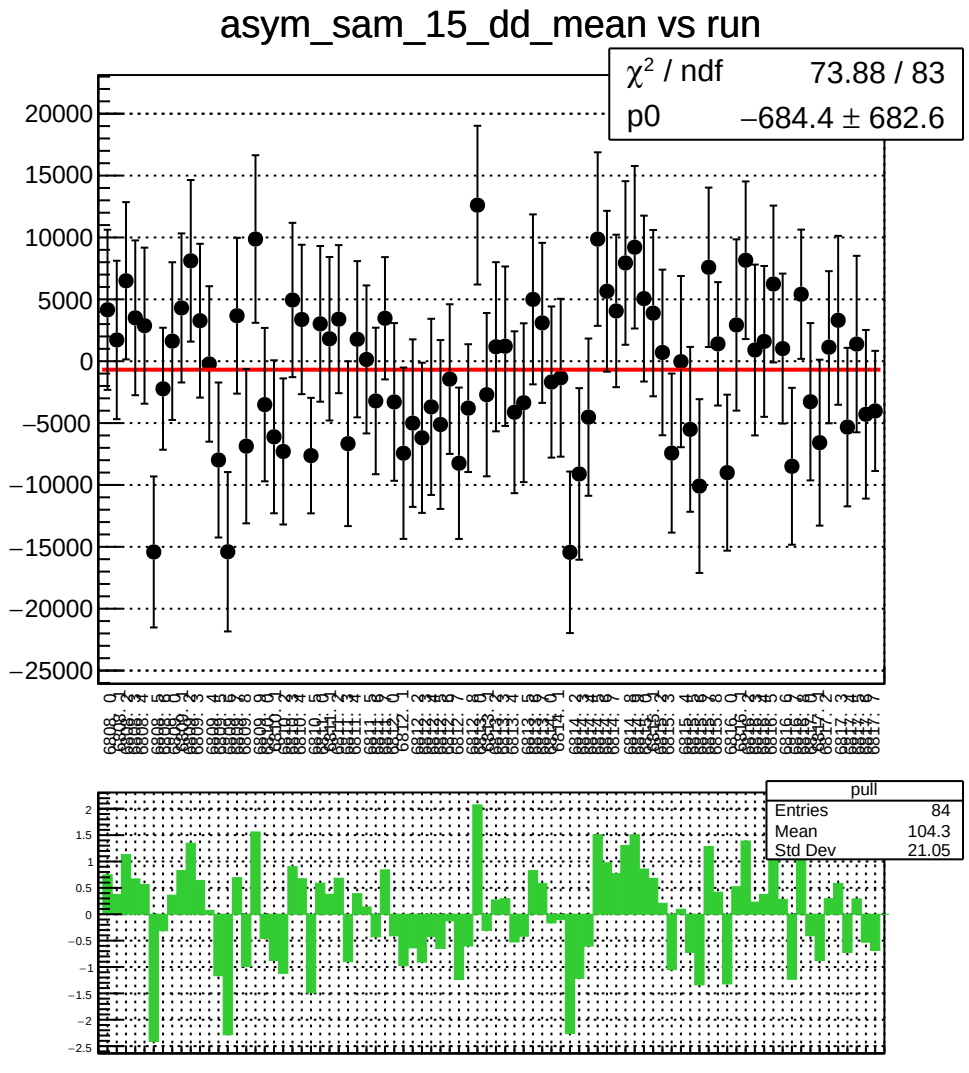

pull1D
Entries 84
Mean −0.001746
Std Dev 0.9362

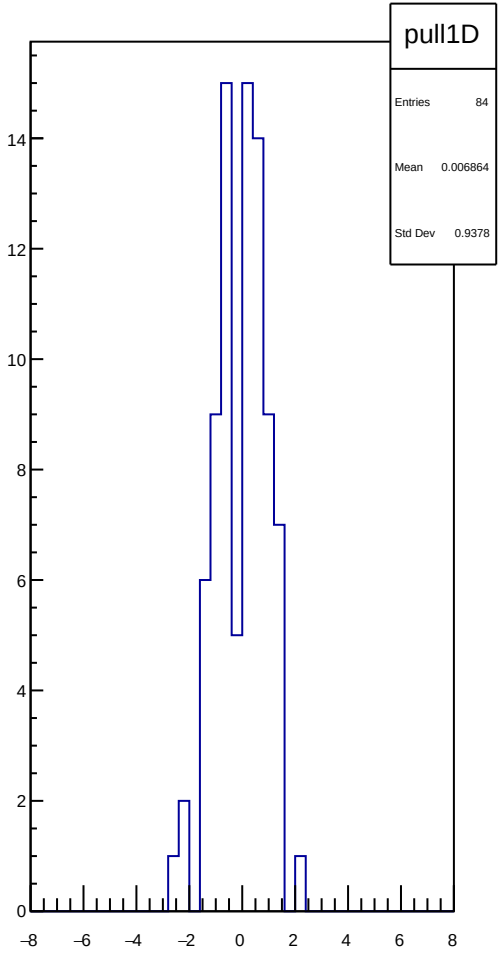

dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 1036 / 83
p0 115.7 ± 0.09129
124
122
120
118
116
114
112
110
108
106

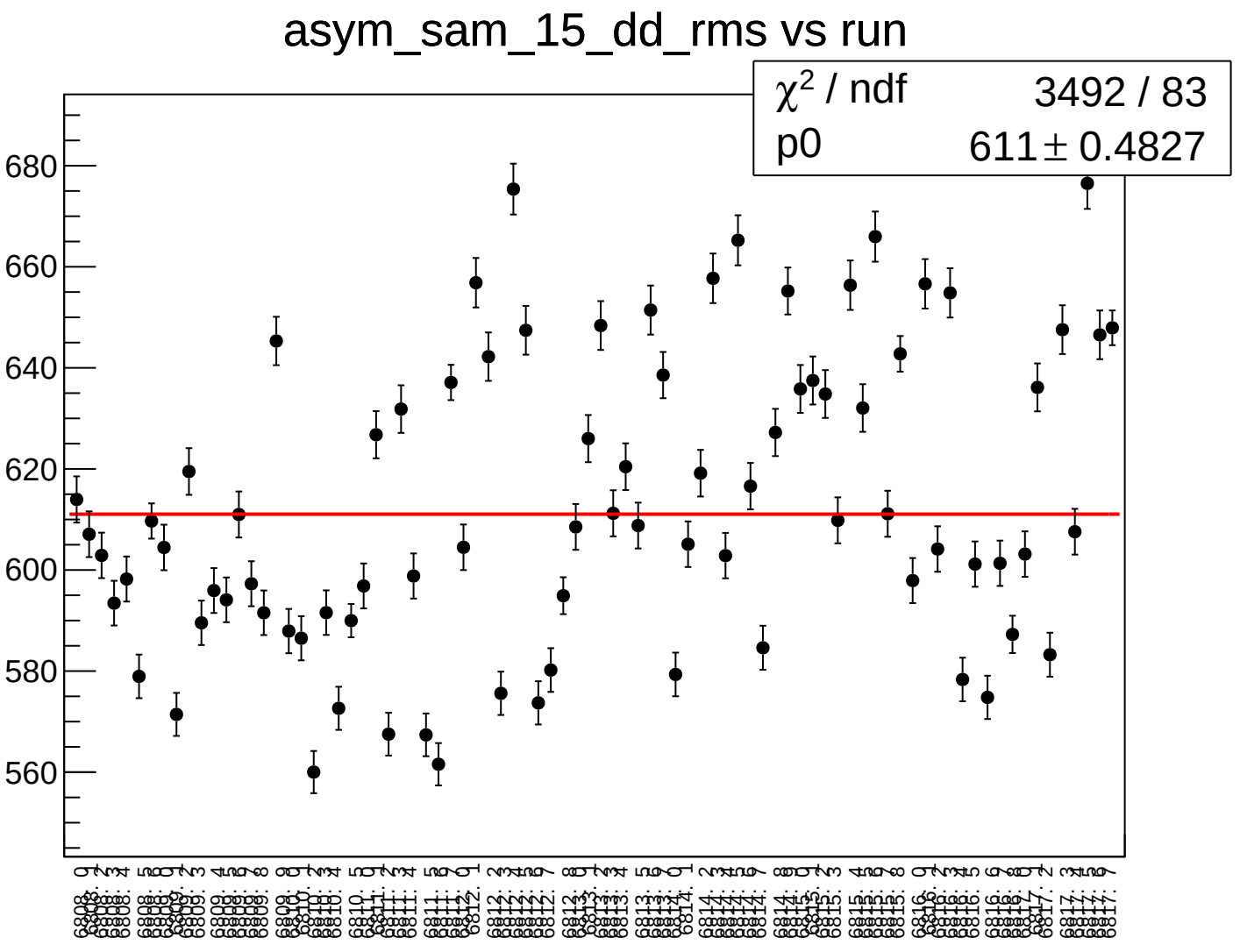

asym_sam_15_dd_correction_mean vs run
χ² / ndf 72.86 / 83
p0 749.3 ± 693.2
20000
10000
0
−10000
−20000
pull
Entries 84
Mean 123.3
Std Dev 64.94
2
1
0
−1
−2

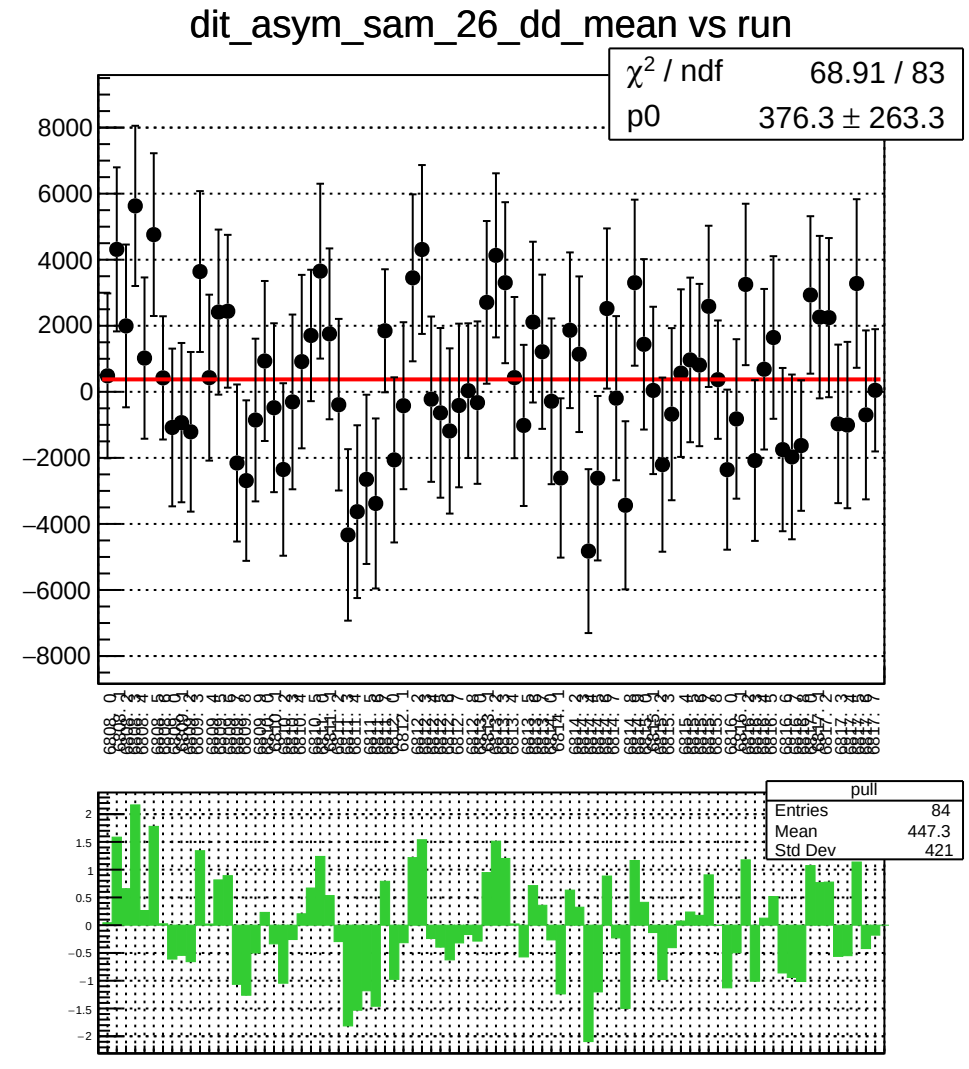

pull1D
Entries 84
Mean −0.006481
Std Dev 0.9313
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

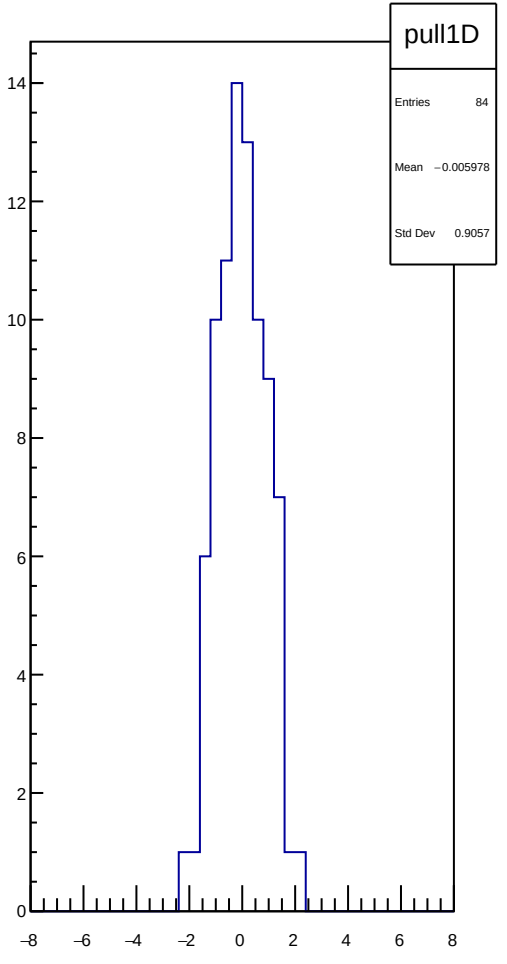

asym_sam_15_dd_correction_rms vs run
χ² / ndf 3414 / 83
p0 620.6 ± 0.4902
700
680
660
640
620
600
580
560

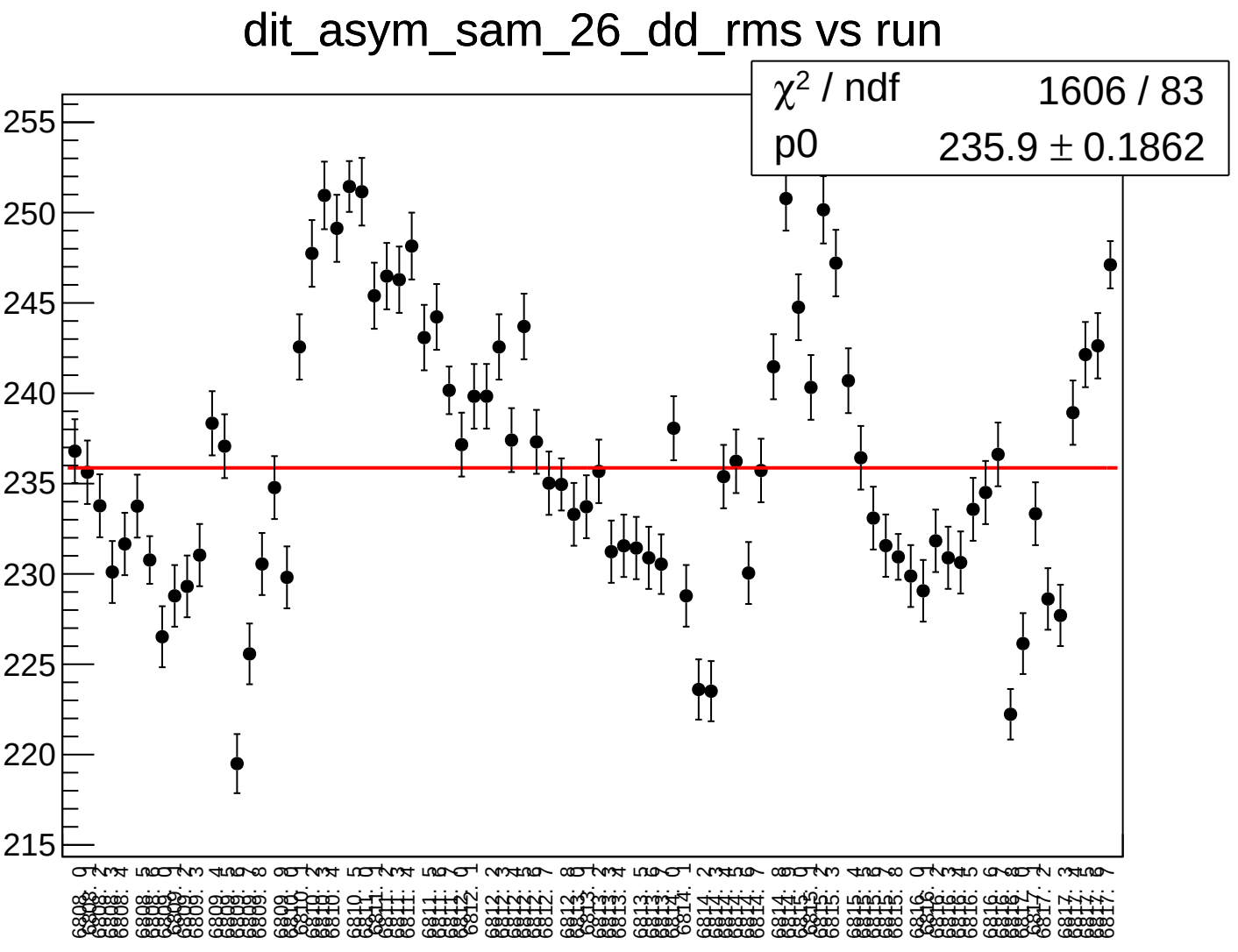

asym_sam_15_dd_mean vs run
χ² / ndf 73.88 / 83
p0 −684.4 ± 682.6
pull
Entries 84
Mean 104.3
Std Dev 21.05

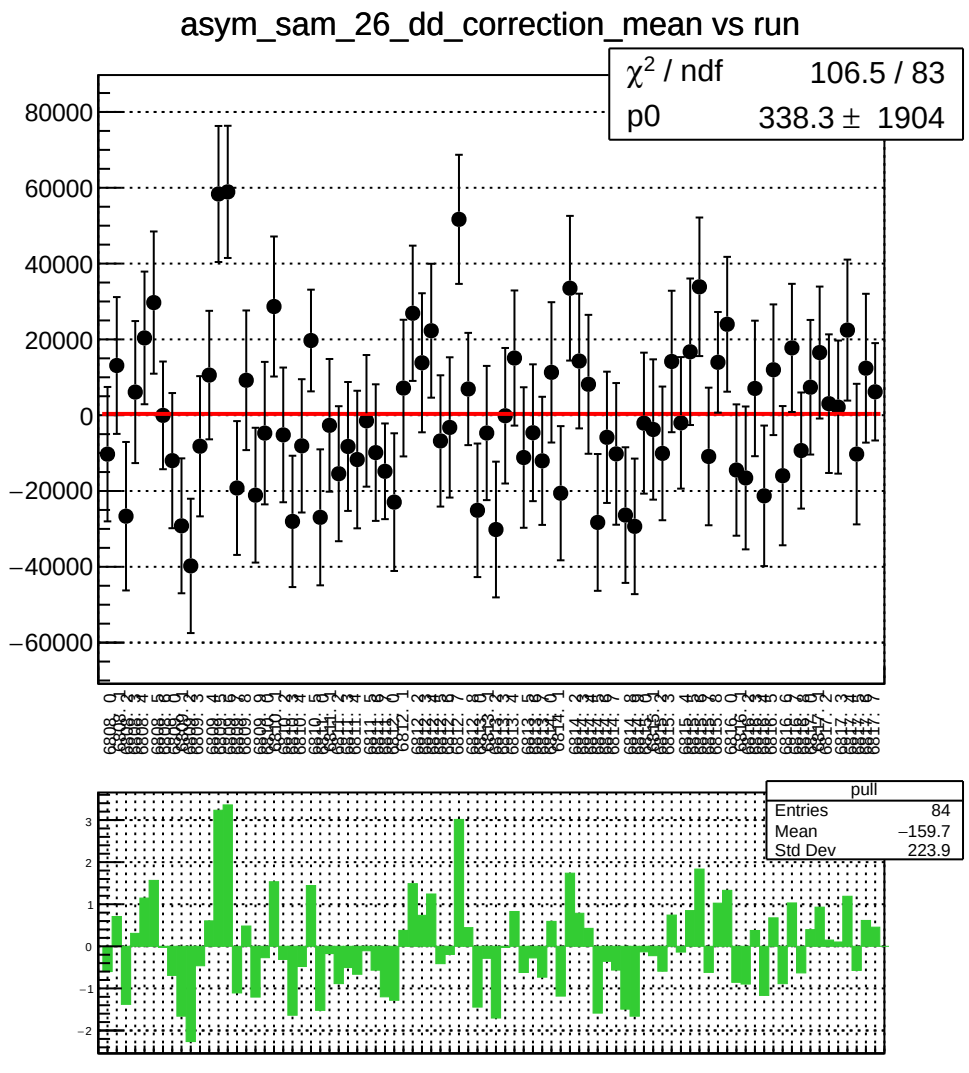

pull1D
Entries 84
Mean 0.006864
Std Dev 0.9378

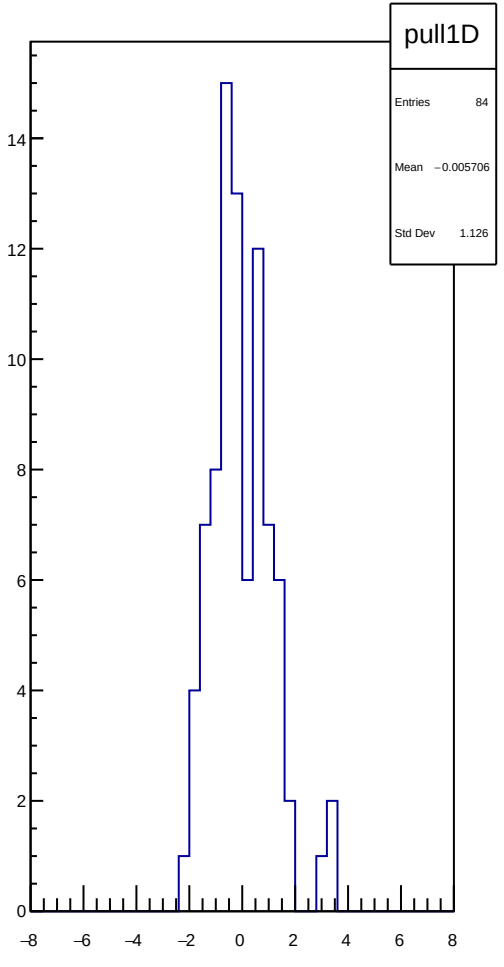

asym_sam_15_dd_rms vs run
χ^2 / ndf 3492 / 83
p0 611 ± 0.4827
680
660
640
620
600
580
560

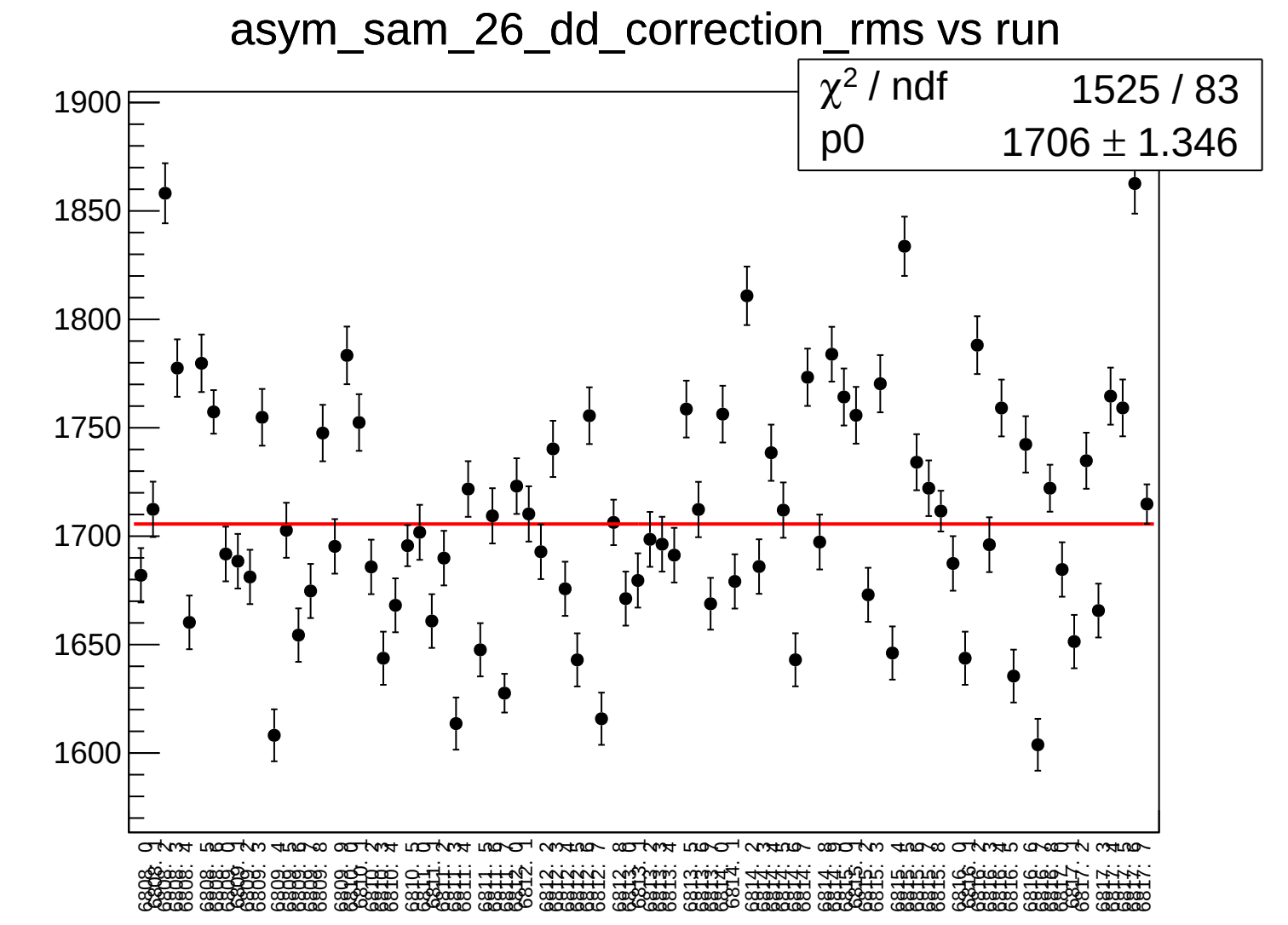

dit_asym_sam_26_dd_mean vs run
χ² / ndf 68.91 / 83
p0 376.3 ± 263.3
pull
Entries 84
Mean 447.3
Std Dev 421

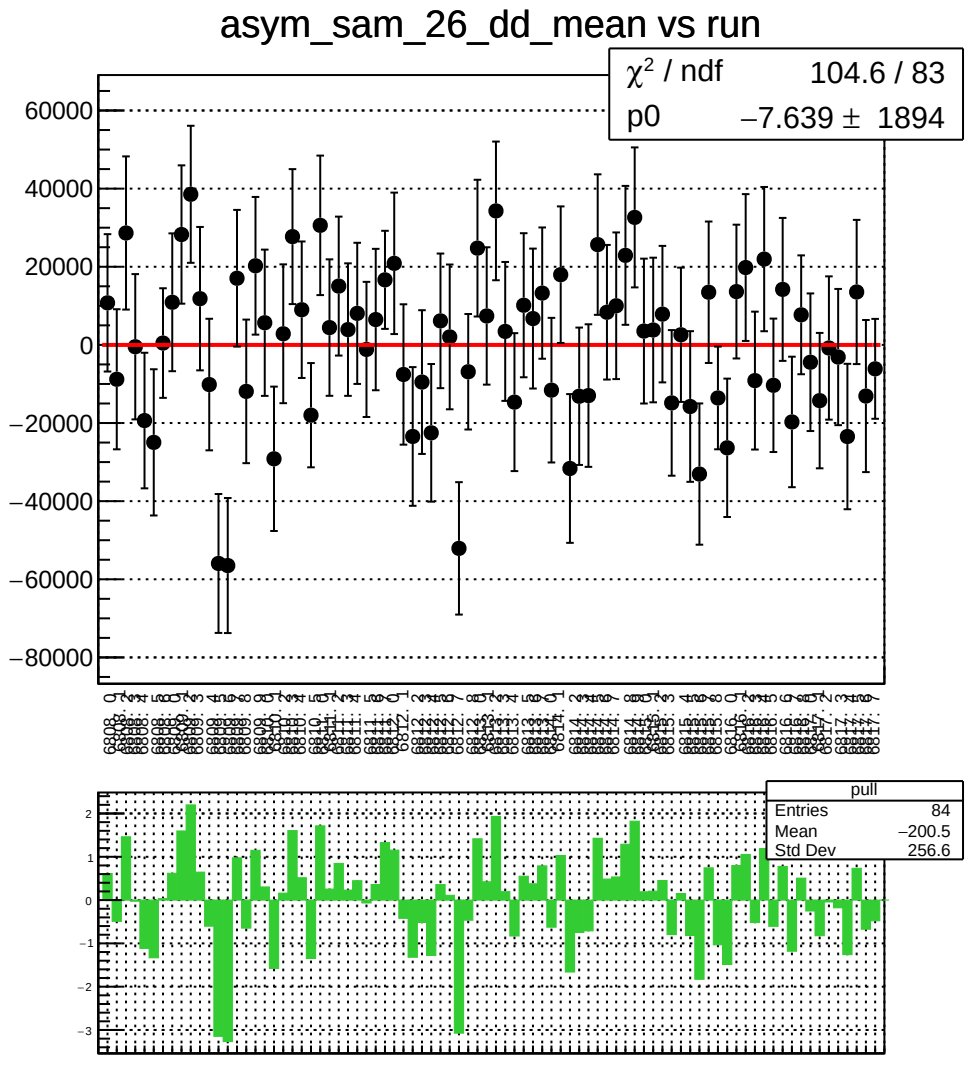

pull1D
Entries 84
Mean −0.005978
Std Dev 0.9057

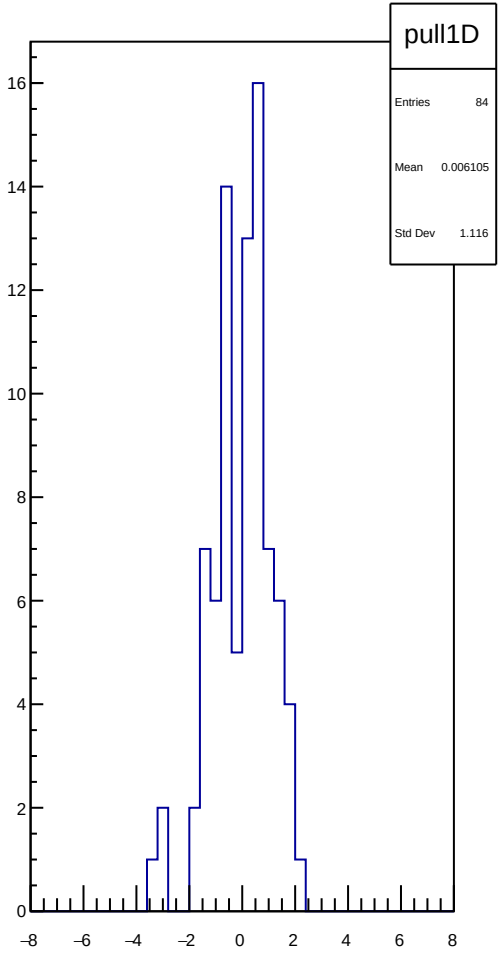

dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 1606 / 83
p0 235.9 ± 0.1862
255
250
245
240
235
230
225
220
215

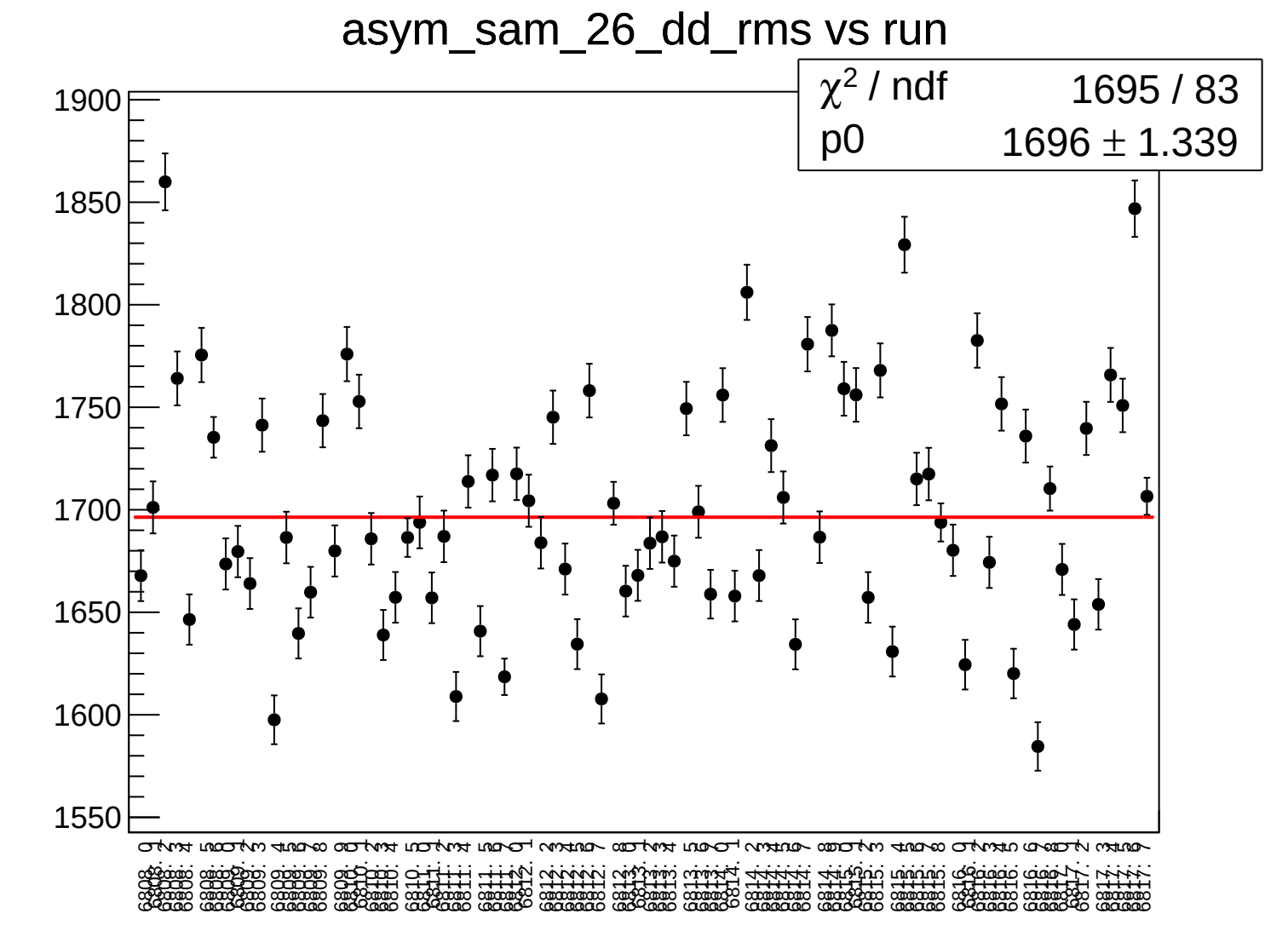

asym_sam_26_dd_correction_mean vs run
χ² / ndf 106.5 / 83
p0 338.3 ± 1904
pull
Entries 84
Mean −159.7
Std Dev 223.9

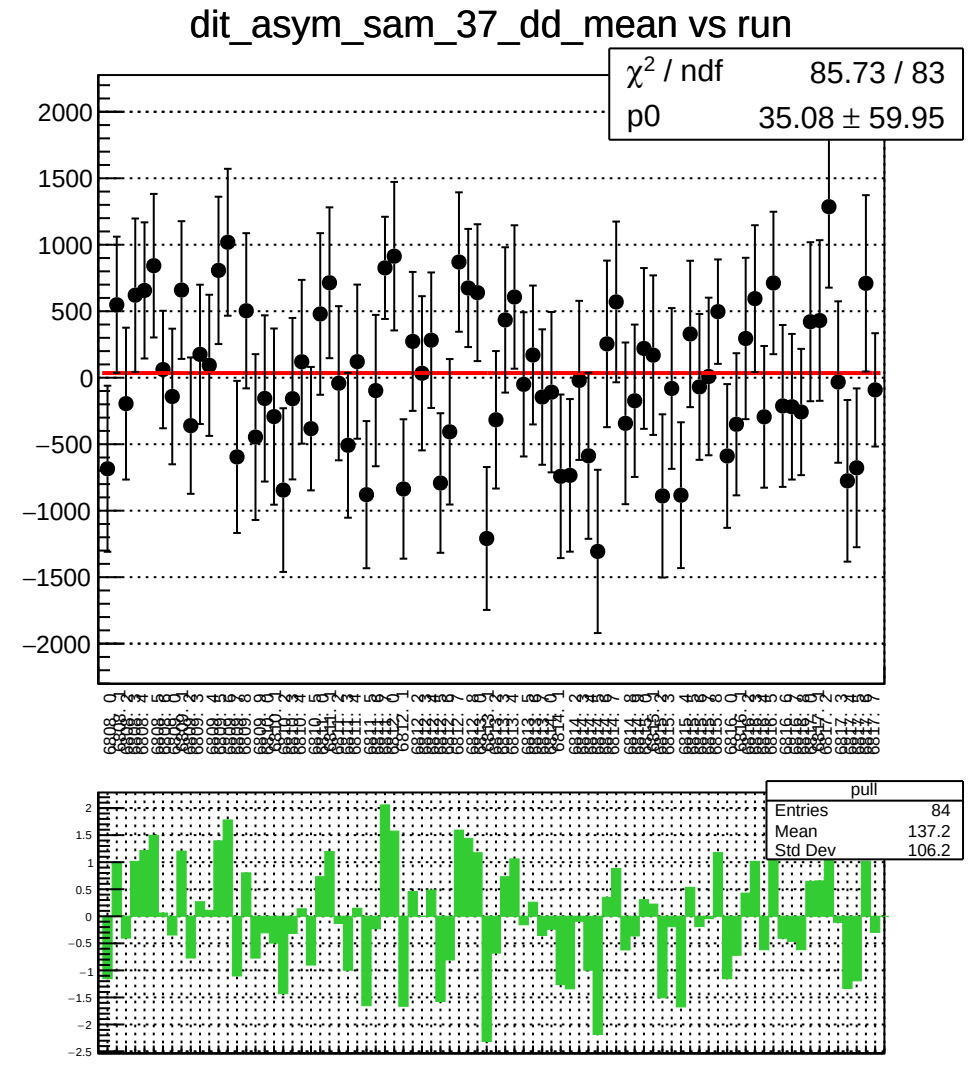

pull1D
Entries 84
Mean −0.005706
Std Dev 1.126

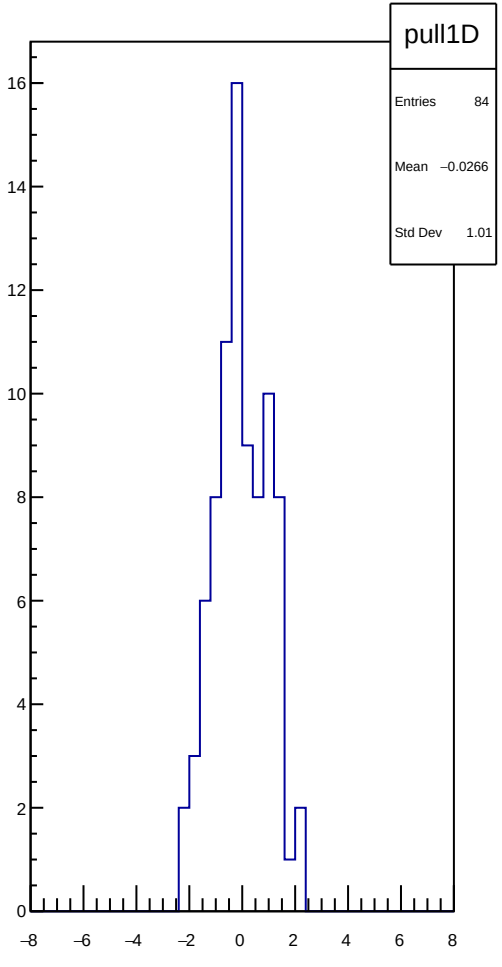

asym_sam_26_dd_correction_rms vs run
χ² / ndf 1525 / 83
p0 1706 ± 1.346
1900
1850
1800
1750
1700
1650
1600

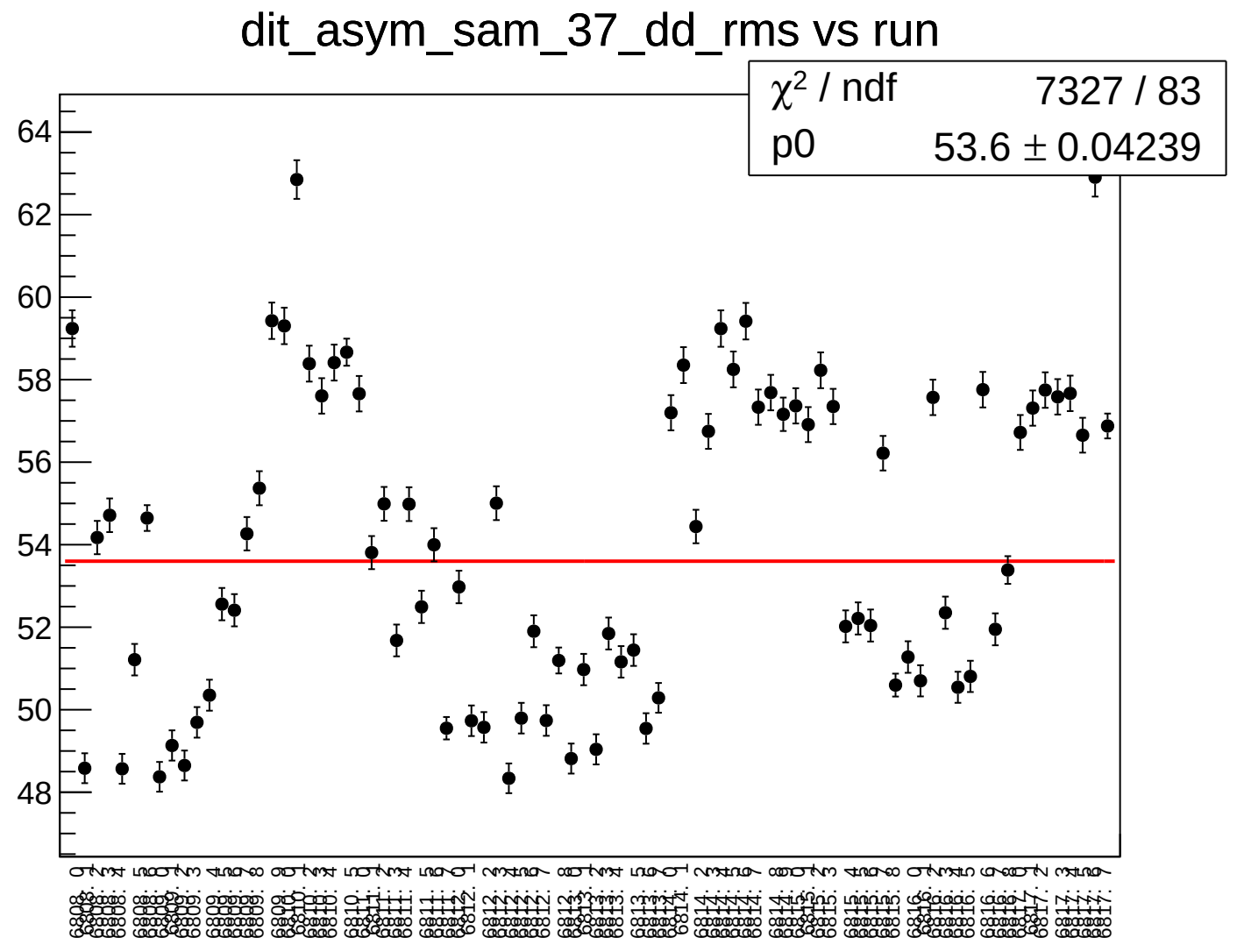

asym_sam_26_dd_mean vs run
χ² / ndf 104.6 / 83
p0 −7.639 ± 1894
pull
Entries 84
Mean −200.5
Std Dev 256.6

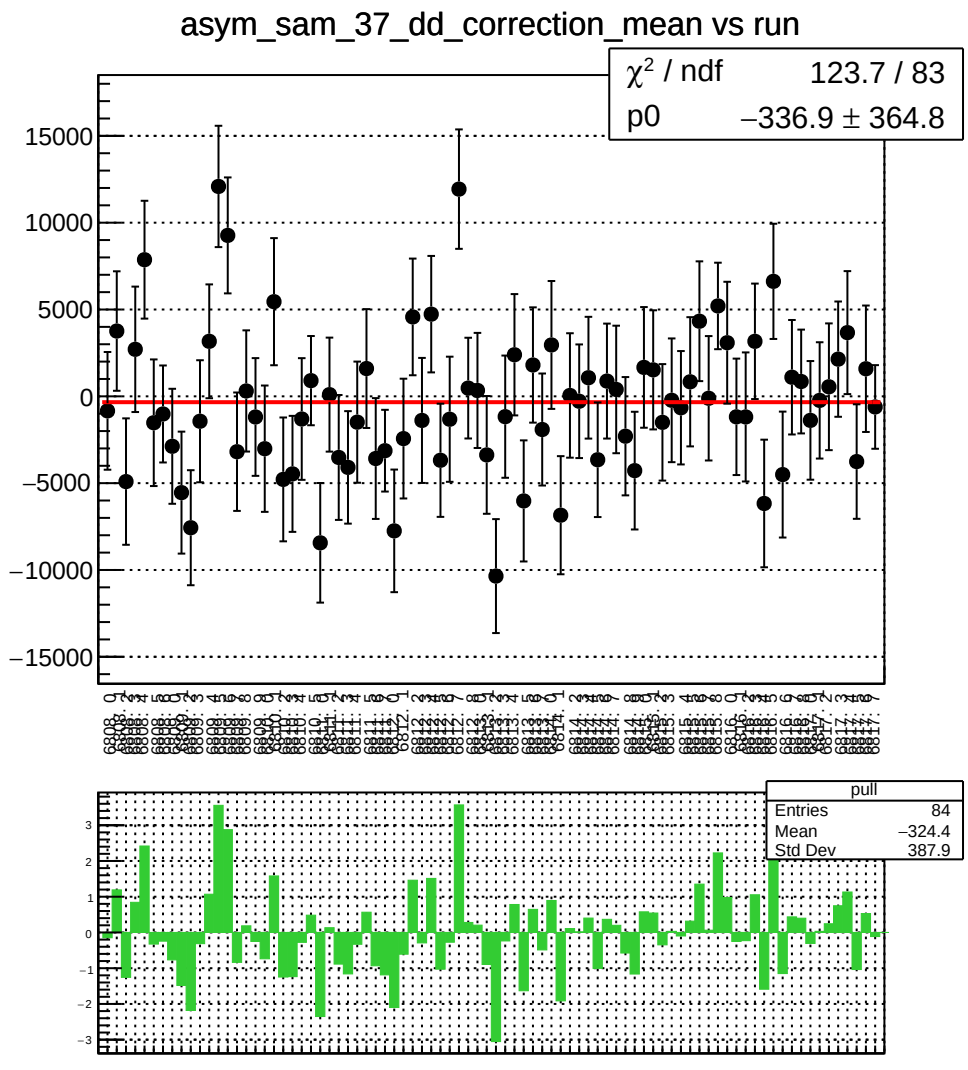

pull1D
Entries 84
Mean 0.006105
Std Dev 1.116

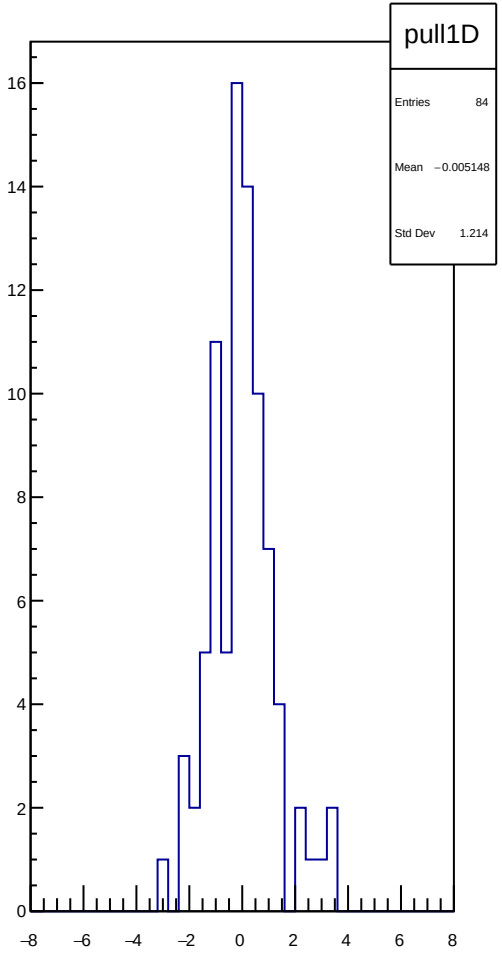

asym_sam_26_dd_rms vs run
χ² / ndf 1695 / 83
p0 1696 ± 1.339
1900
1850
1800
1750
1700
1650
1600
1550

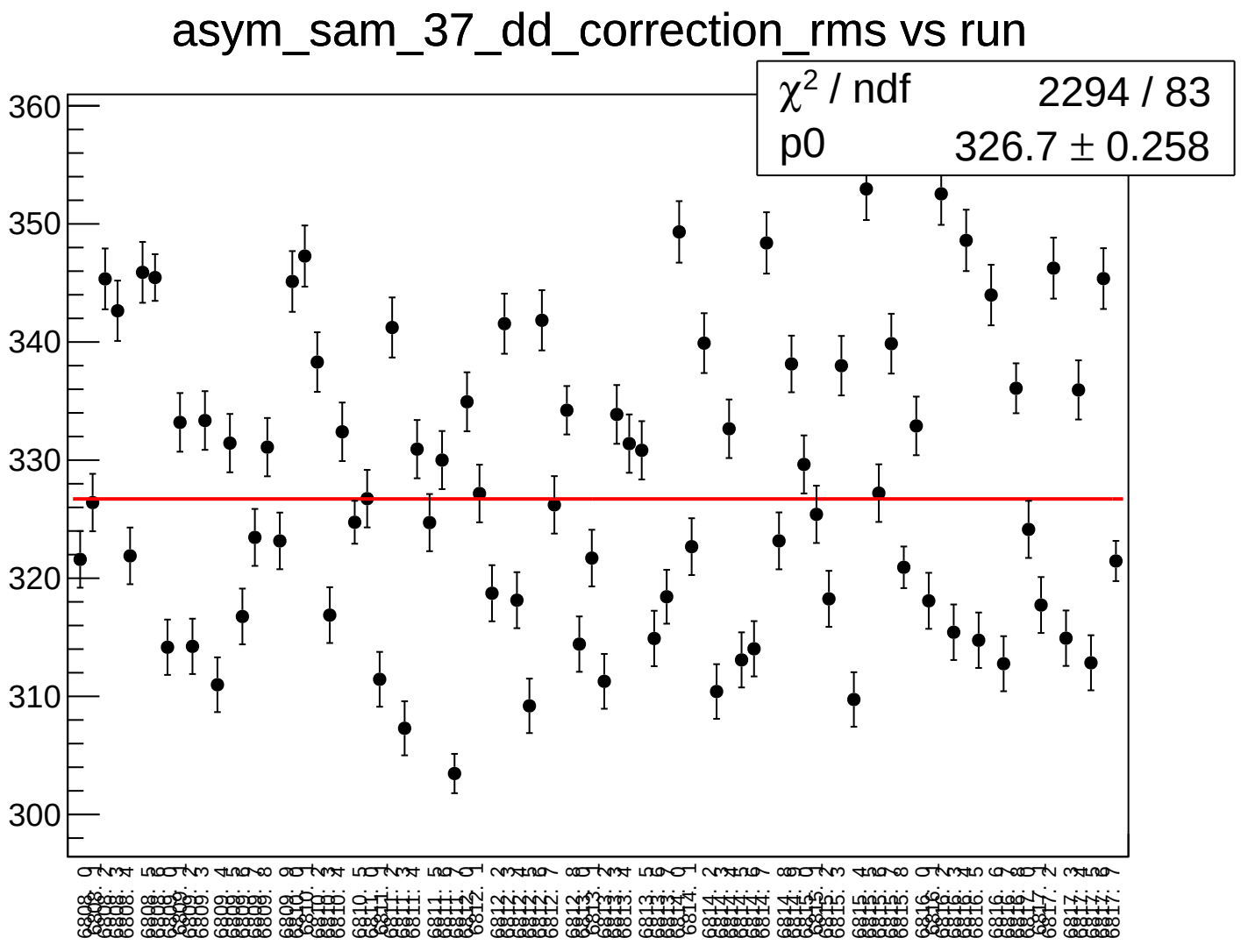

dit_asym_sam_37_dd_mean vs run
χ² / ndf 85.73 / 83
p0 35.08 ± 59.95
pull
Entries 84
Mean 137.2
Std Dev 106.2

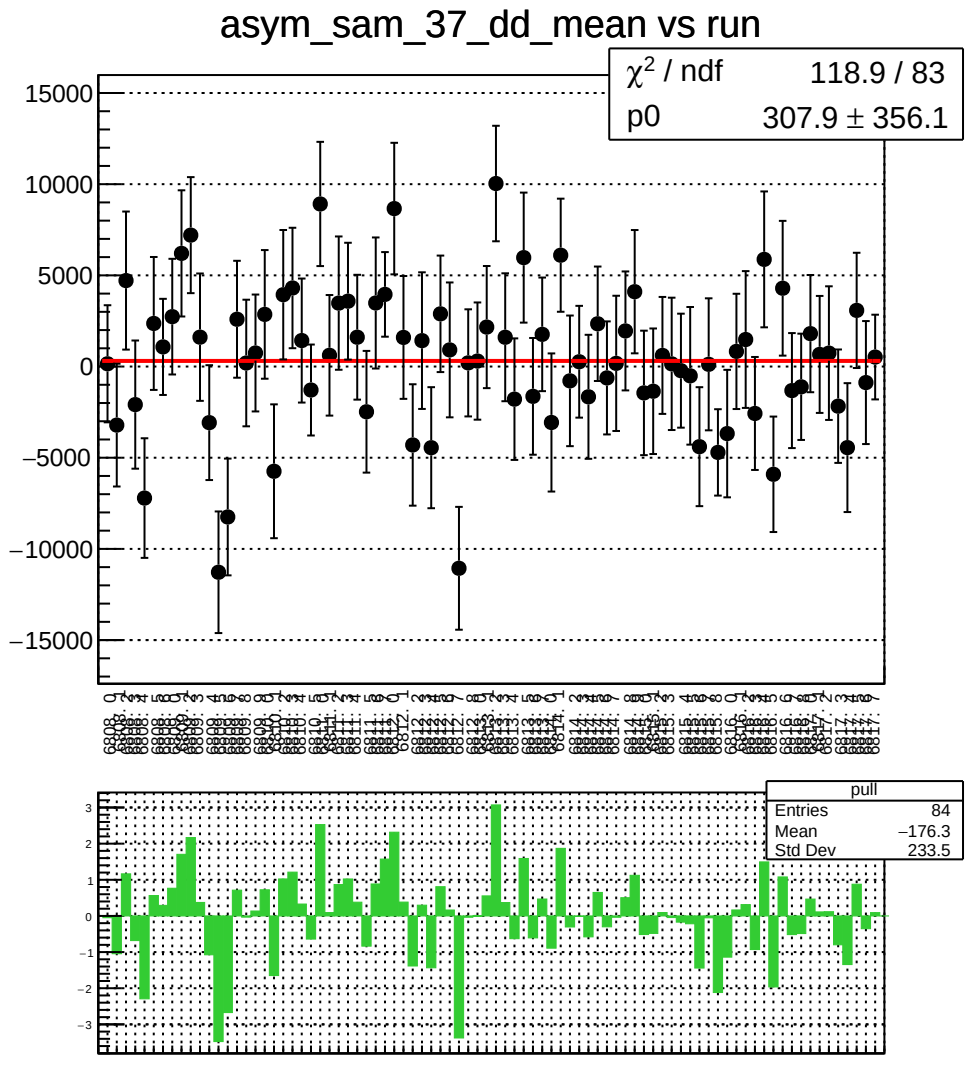

pull1D
Entries 84
Mean −0.0266
Std Dev 1.01

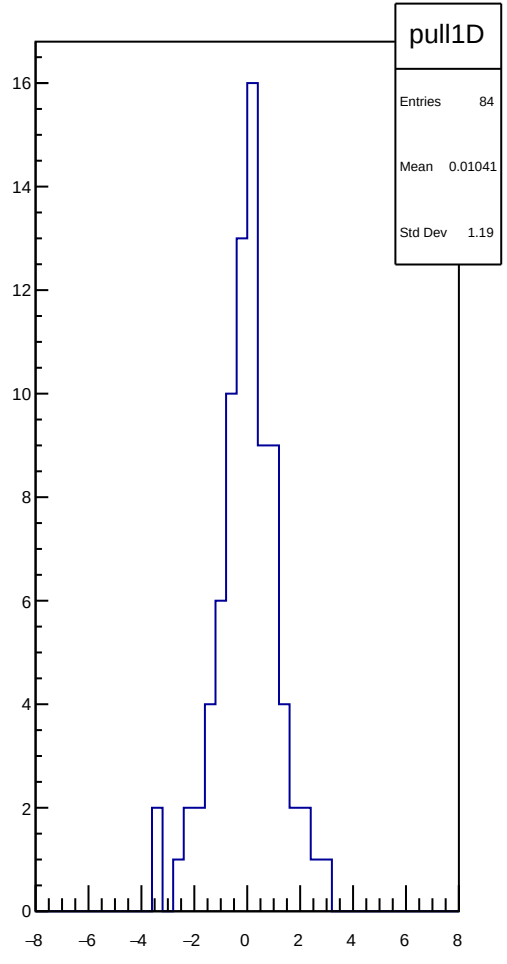

dit_asym_sam_37_dd_rms vs run
χ² / ndf 7327 / 83
p0 53.6 ± 0.04239
64
62
60
58
56
54
52
50
48

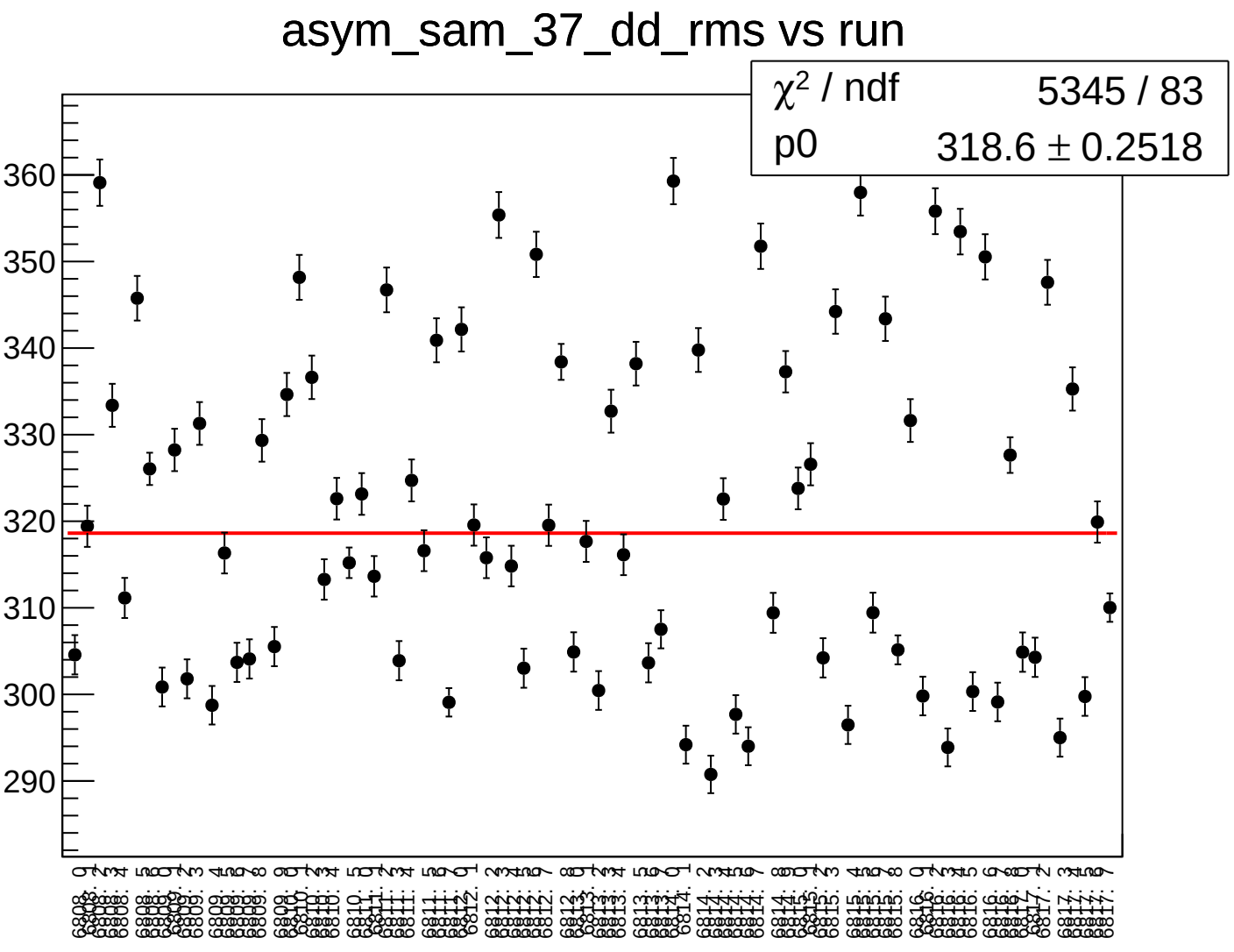

asym_sam_37_dd_correction_mean vs run
χ² / ndf 123.7 / 83
p0 −336.9 ± 364.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −324.4
Std Dev 387.9
3
2
1
0
−1
−2
−3

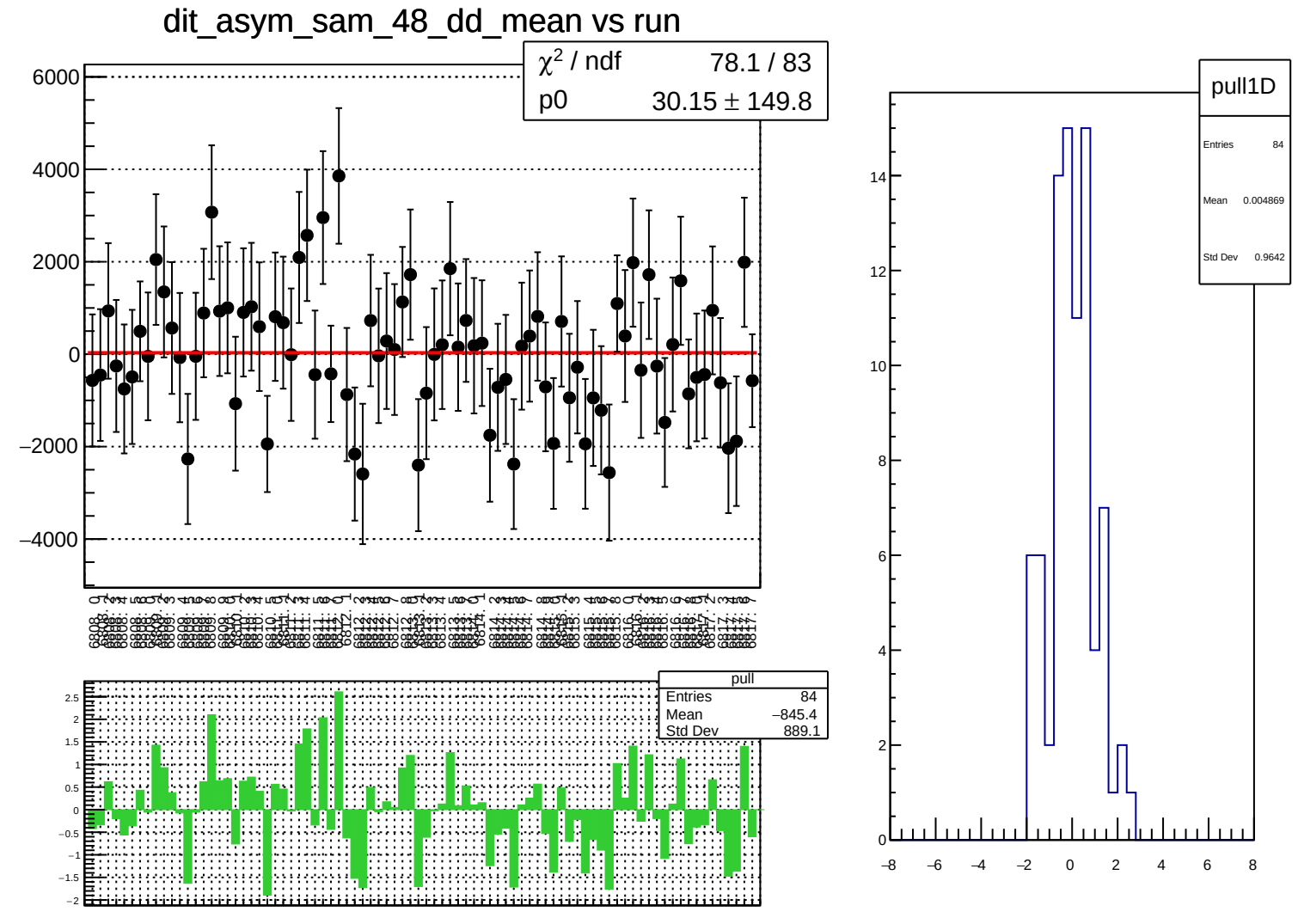

pull1D
Entries 84
Mean −0.005148
Std Dev 1.214
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

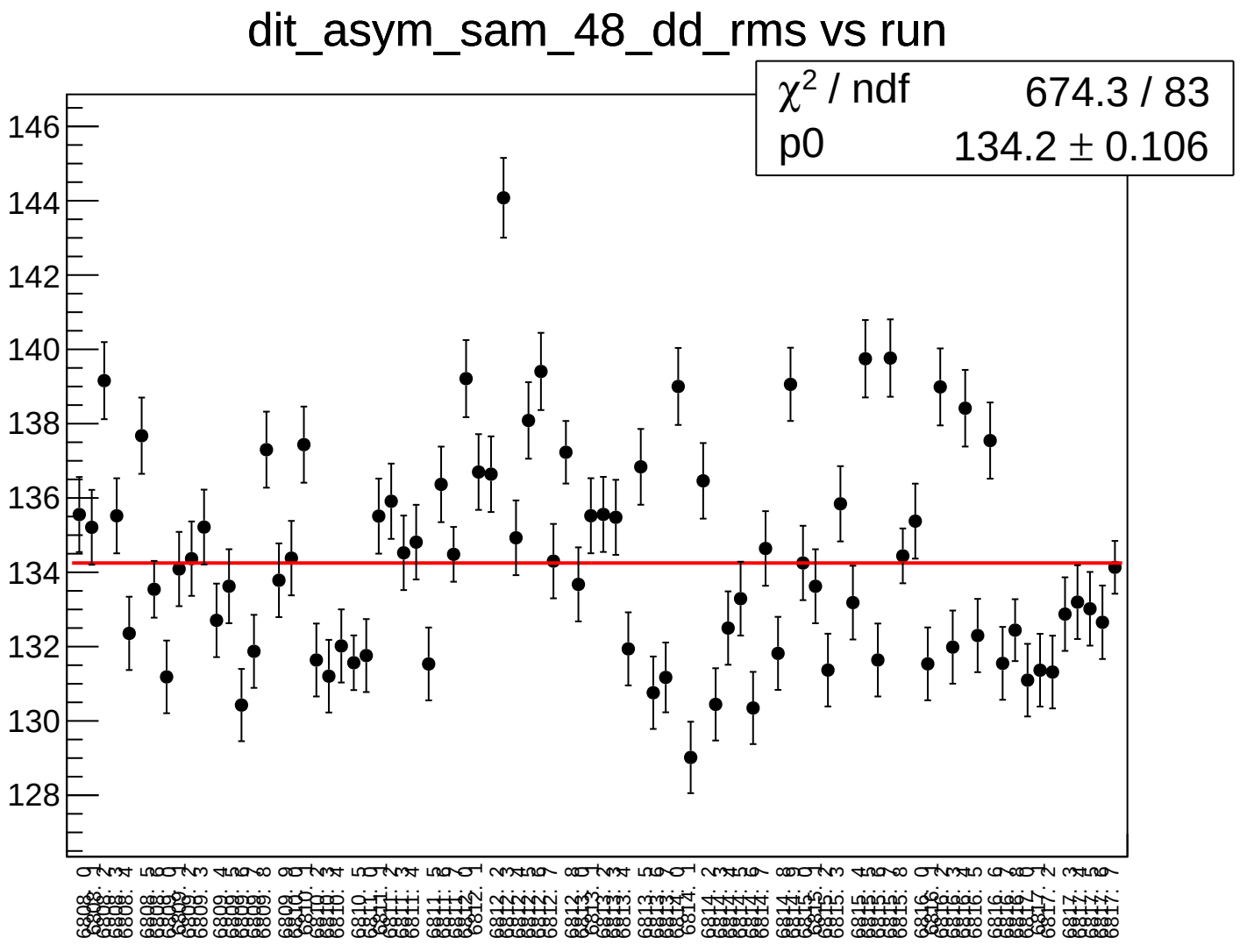

asym_sam_37_dd_correction_rms vs run
χ² / ndf 2294 / 83
p0 326.7 ± 0.258
360
350
340
330
320
310
300

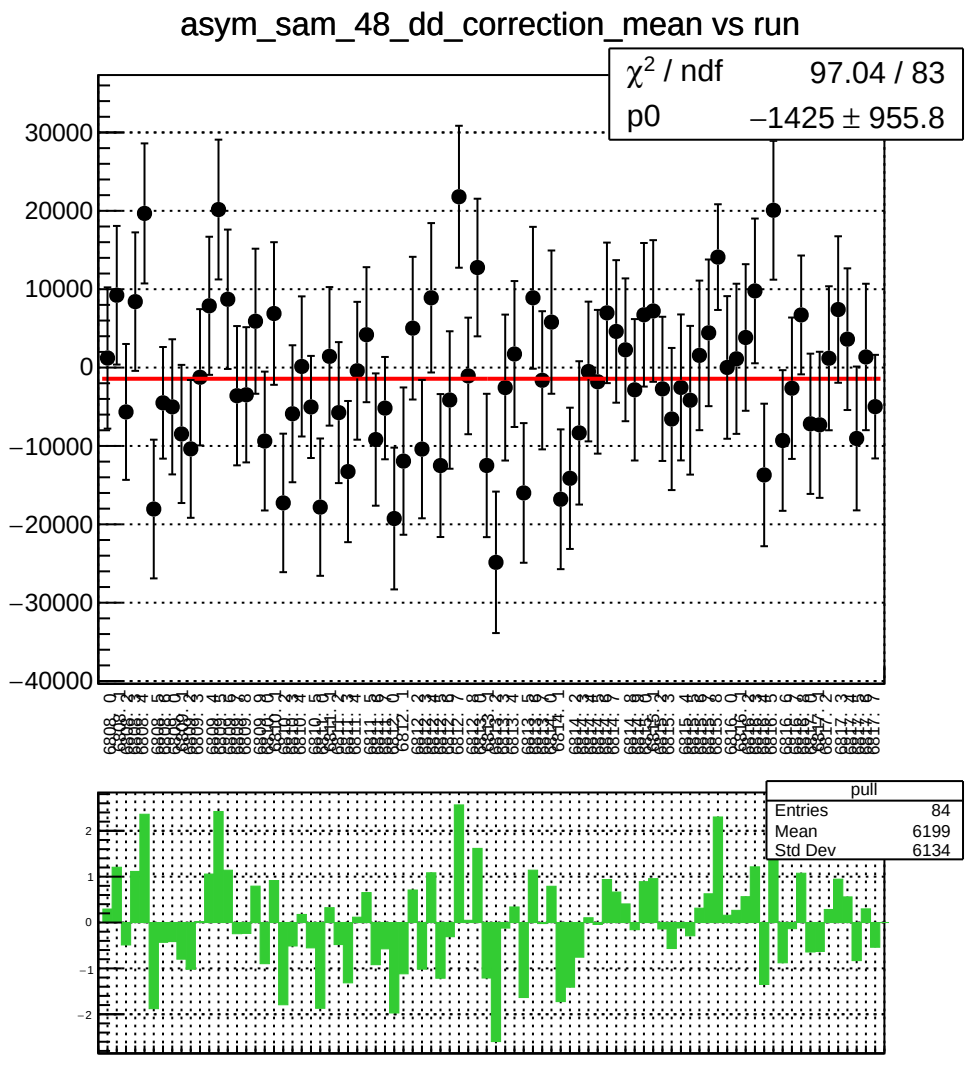

asym_sam_37_dd_mean vs run
χ² / ndf 118.9 / 83
p0 307.9 ± 356.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −176.3
Std Dev 233.5
3
2
1
0
−1
−2
−3

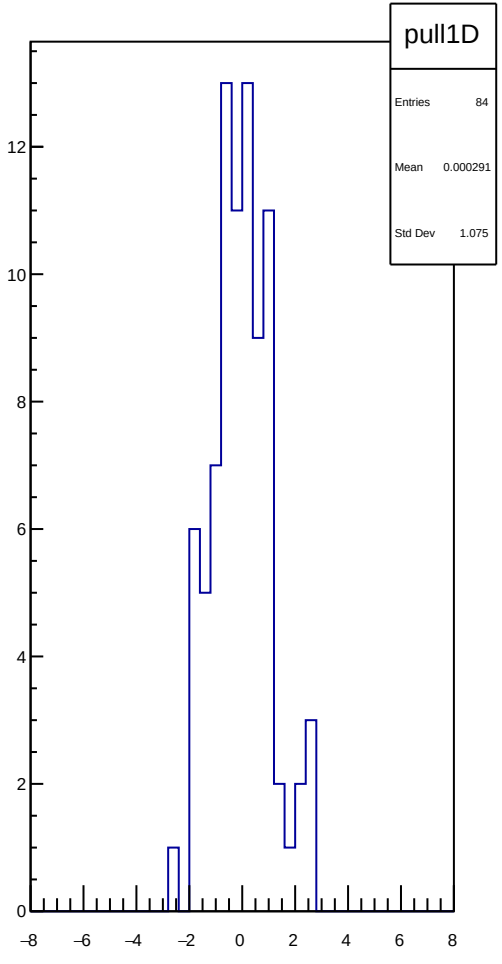

pull1D
Entries 84
Mean 0.01041
Std Dev 1.19
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

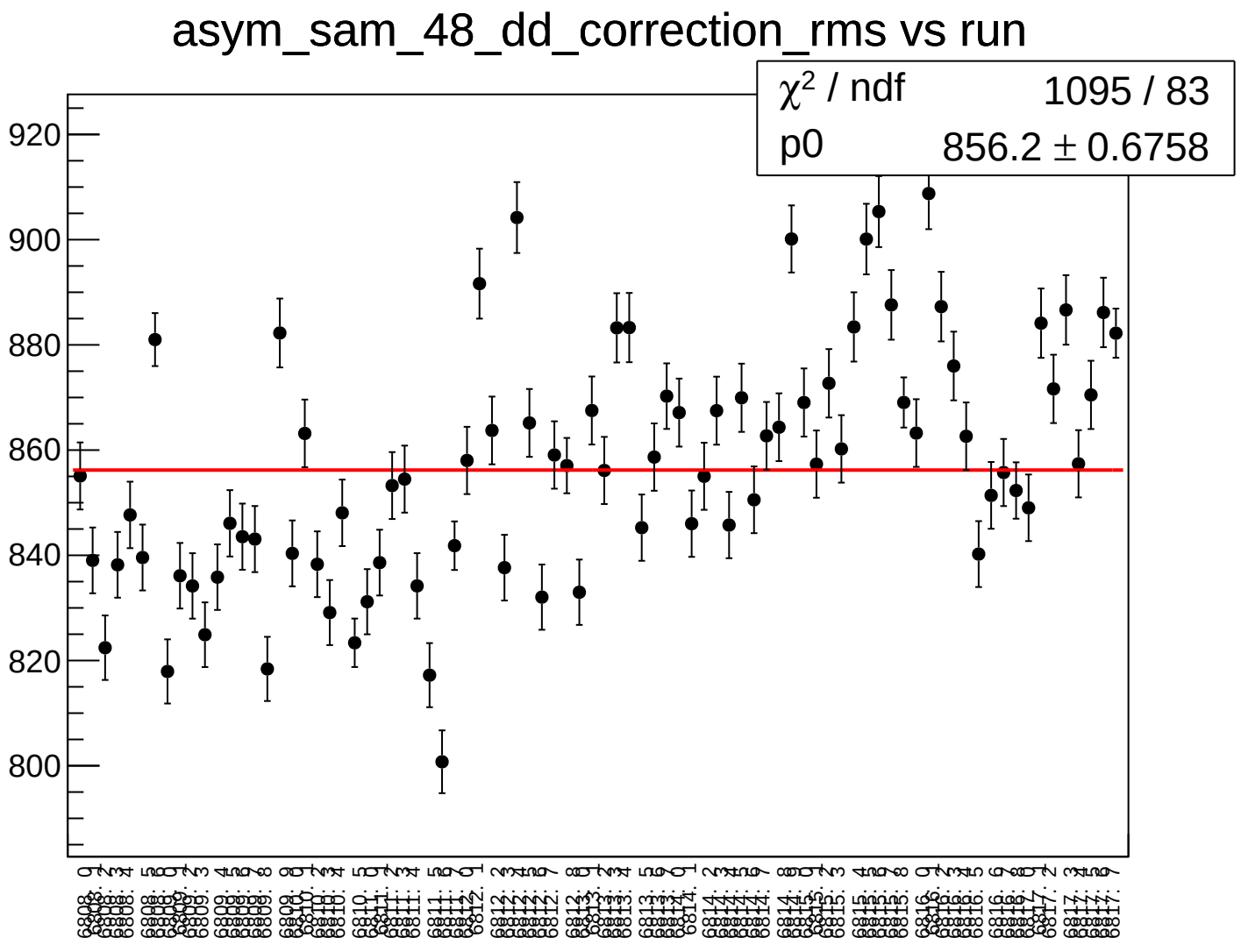

asym_sam_37_dd_rms vs run
χ² / ndf 5345 / 83
p0 318.6 ± 0.2518
360
350
340
330
320
310
300
290

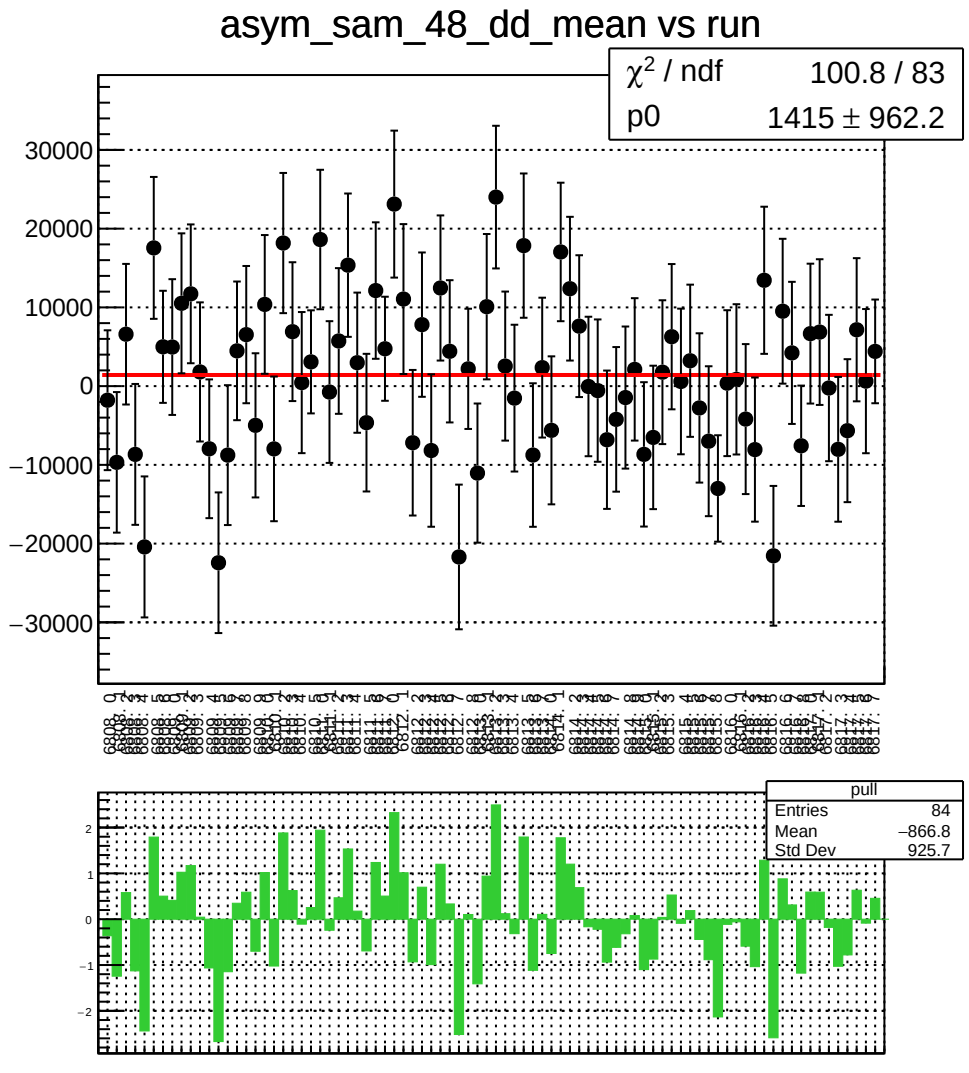

dit_asym_sam_48_dd_mean vs run
χ² / ndf 78.1 / 83
p0 30.15 ± 149.8
pull
Entries 84
Mean −845.4
Std Dev 889.1
pull1D
Entries 84
Mean 0.004869
Std Dev 0.9642

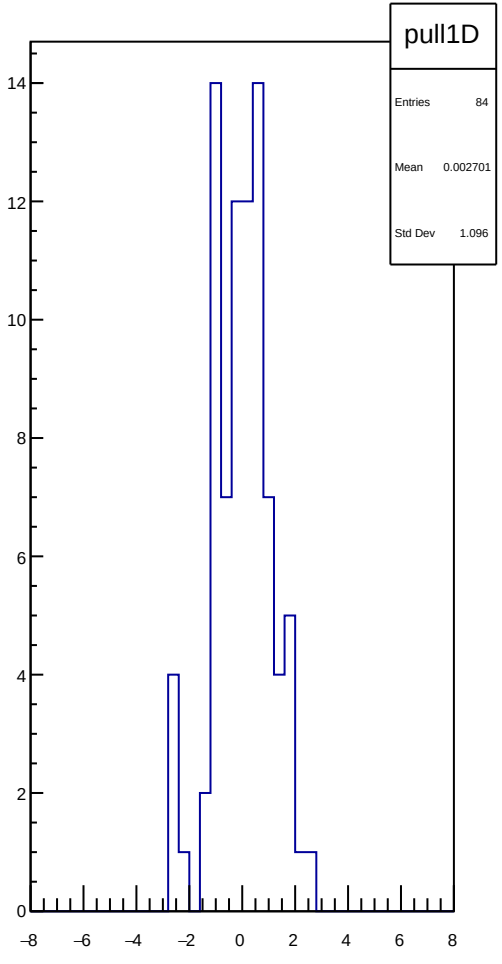

dit_asym_sam_48_dd_rms vs run
χ^2 / ndf 674.3 / 83
p0 134.2 ± 0.106
146
144
142
140
138
136
134
132
130
128

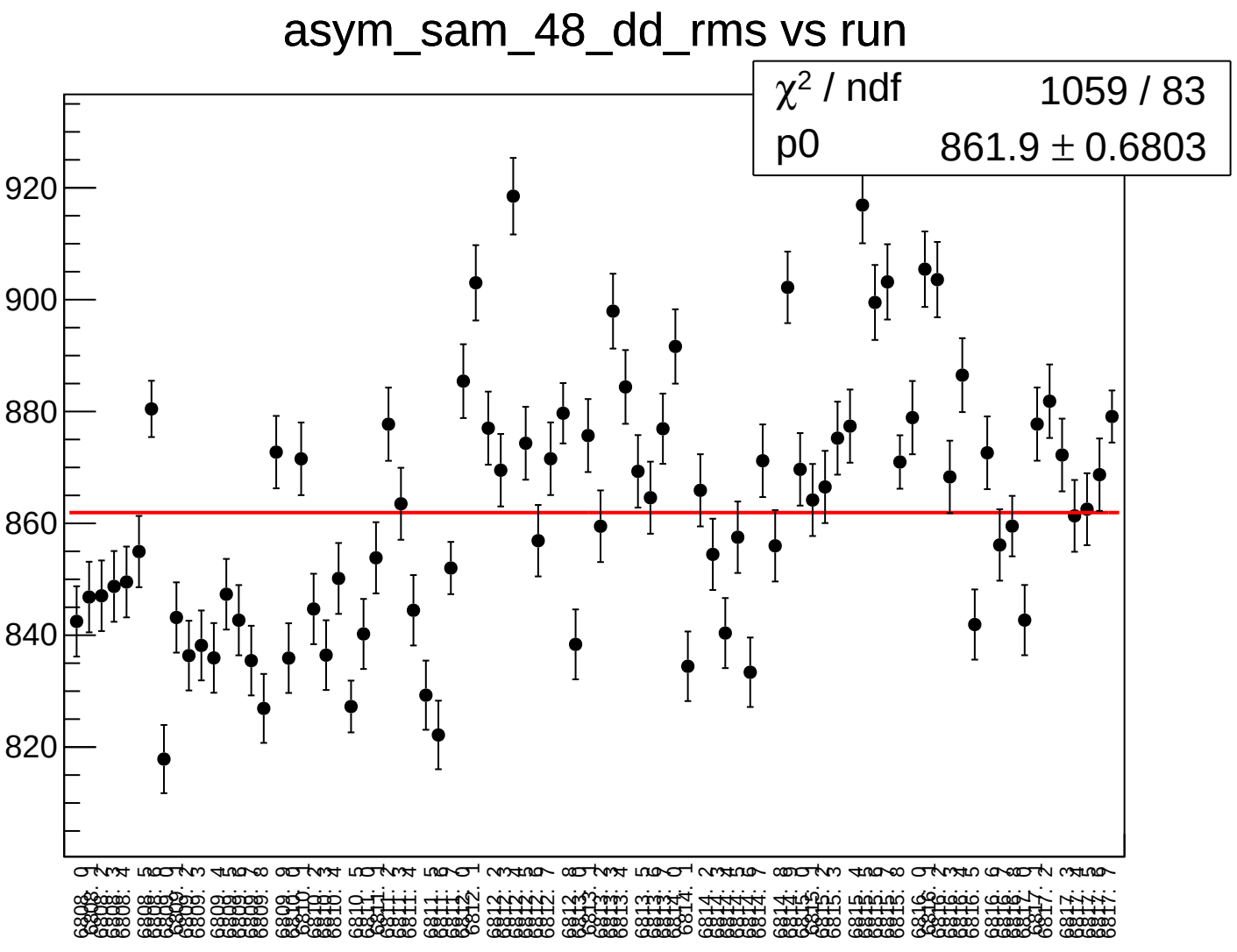

asym_sam_48_dd_correction_mean vs run
χ² / ndf 97.04 / 83
p0 −1425 ± 955.8
pull
Entries 84
Mean 6199
Std Dev 6134

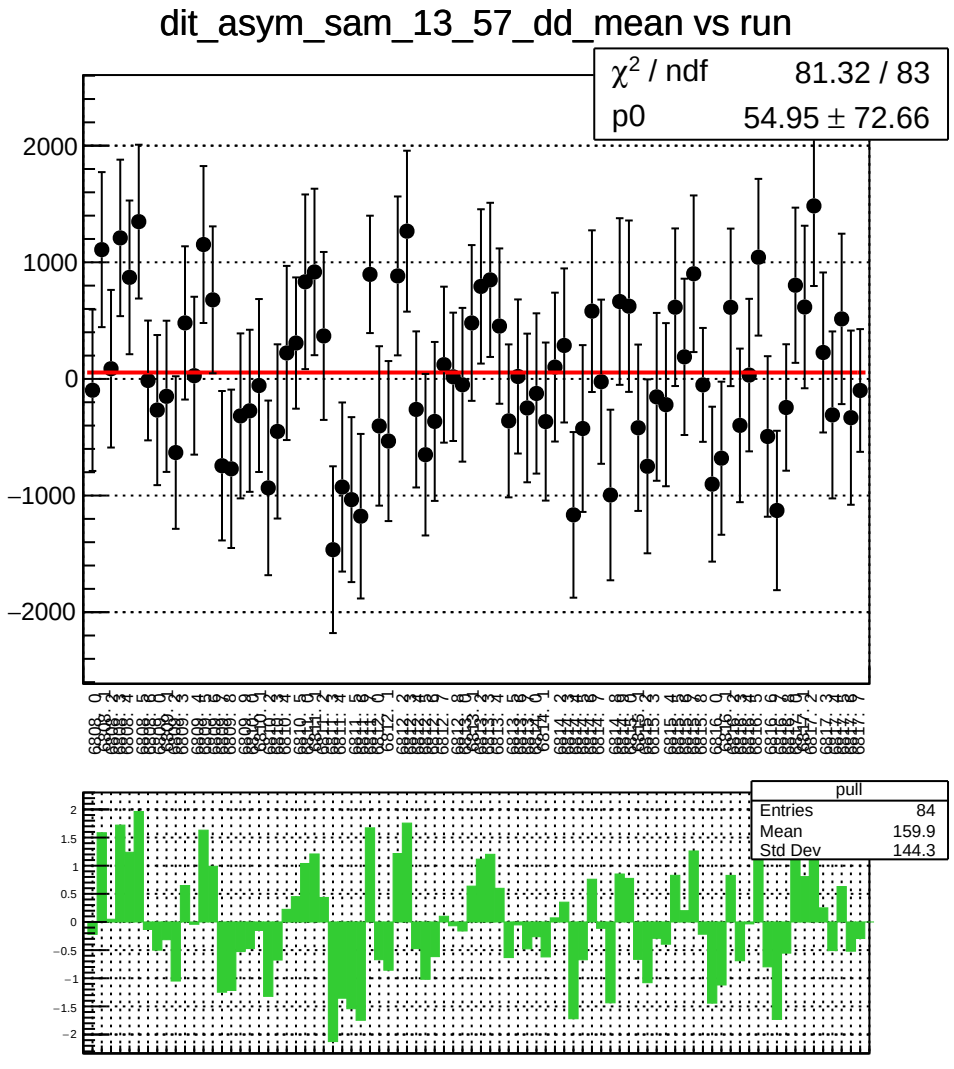

pull1D
Entries 84
Mean 0.000291
Std Dev 1.075

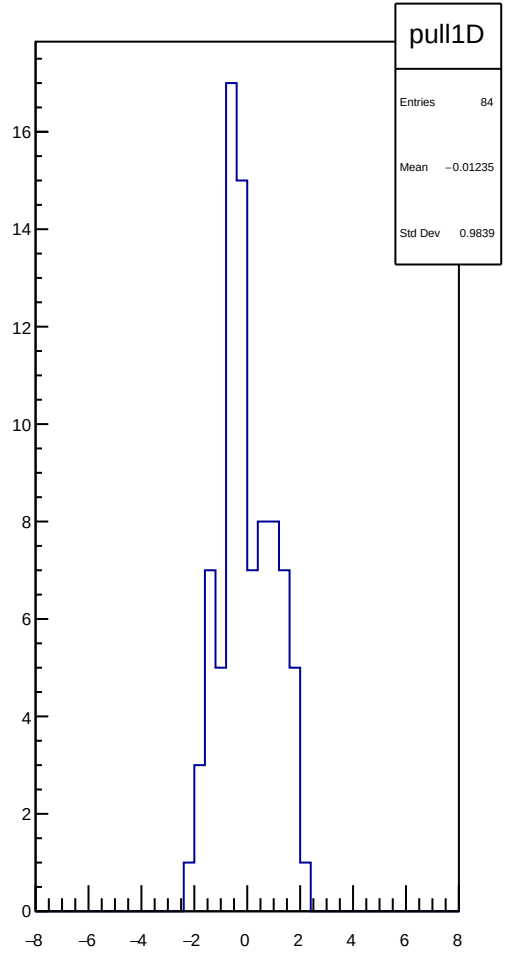

asym_sam_48_dd_correction_rms vs run
χ² / ndf 1095 / 83
p0 856.2 ± 0.6758
920
900
880
860
840
820
800

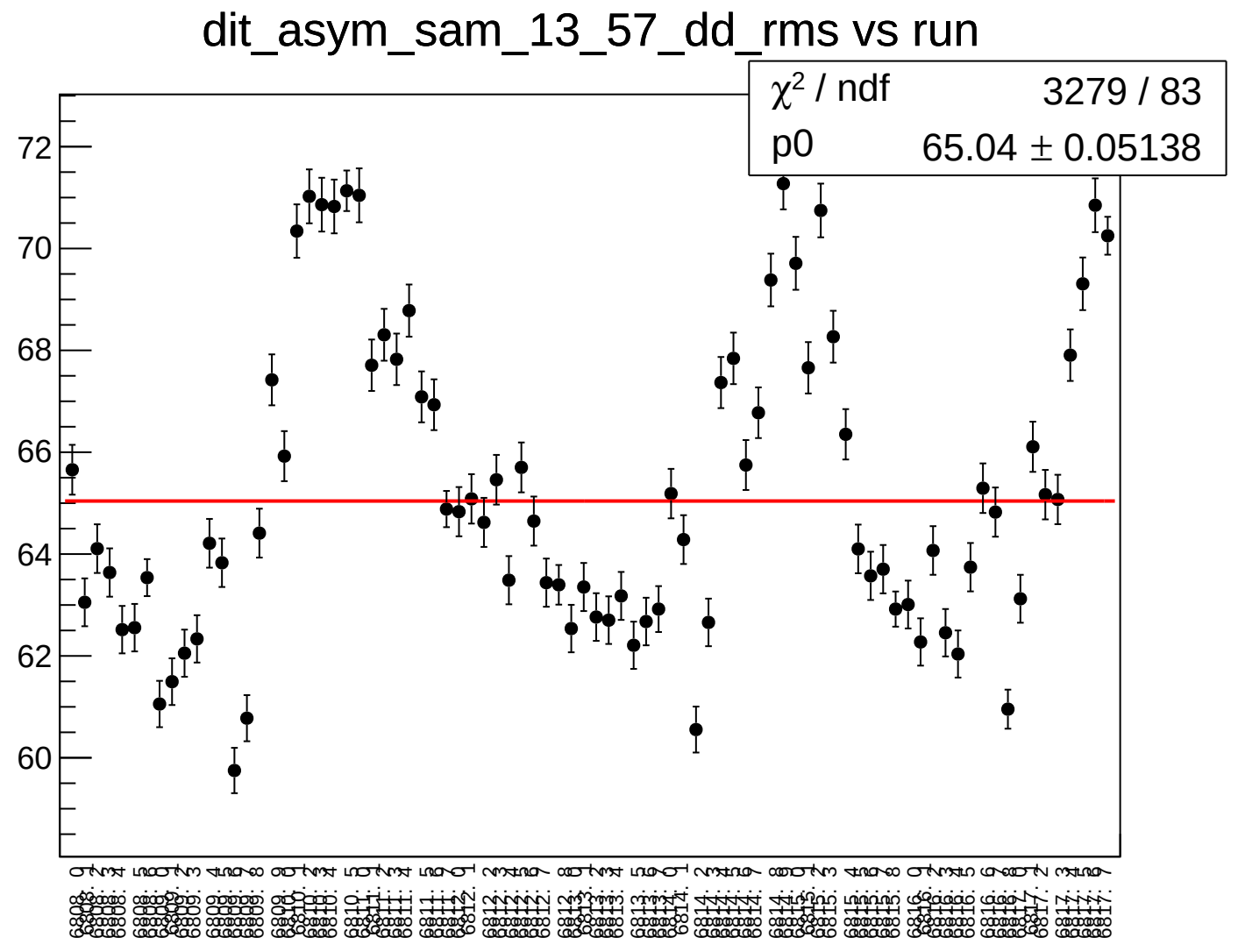

asym_sam_48_dd_mean vs run
χ² / ndf 100.8 / 83
p0 1415 ± 962.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −866.8
Std Dev 925.7
2
1
0
−1
−2

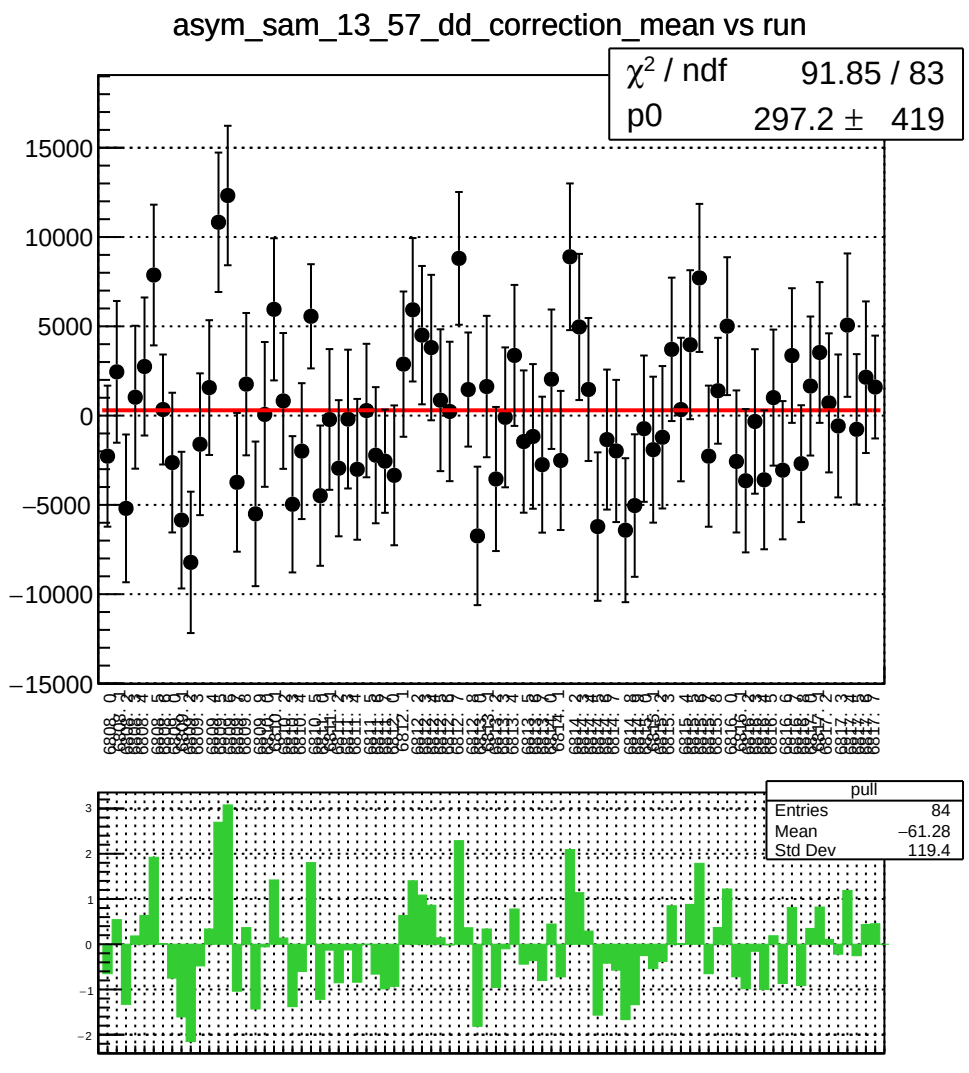

pull1D
Entries 84
Mean 0.002701
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

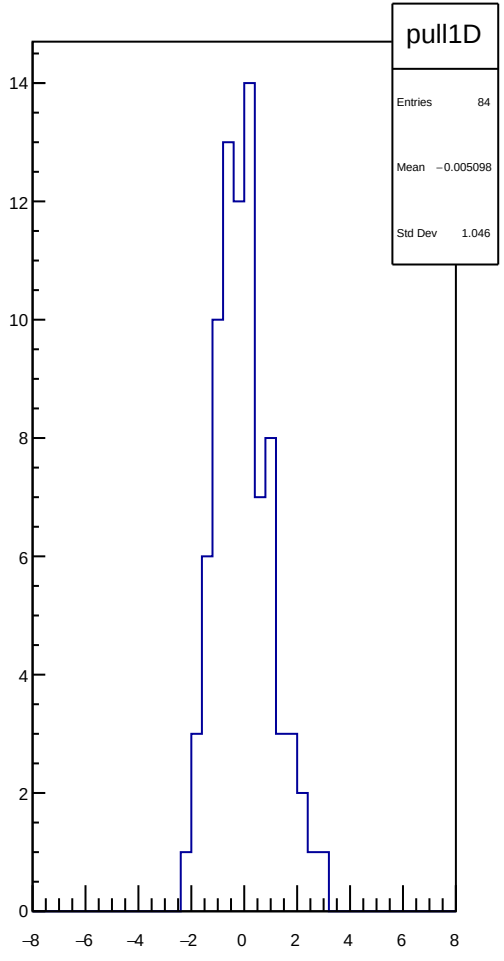

asym_sam_48_dd_rms vs run
χ² / ndf 1059 / 83
p0 861.9 ± 0.6803
920
900
880
860
840
820

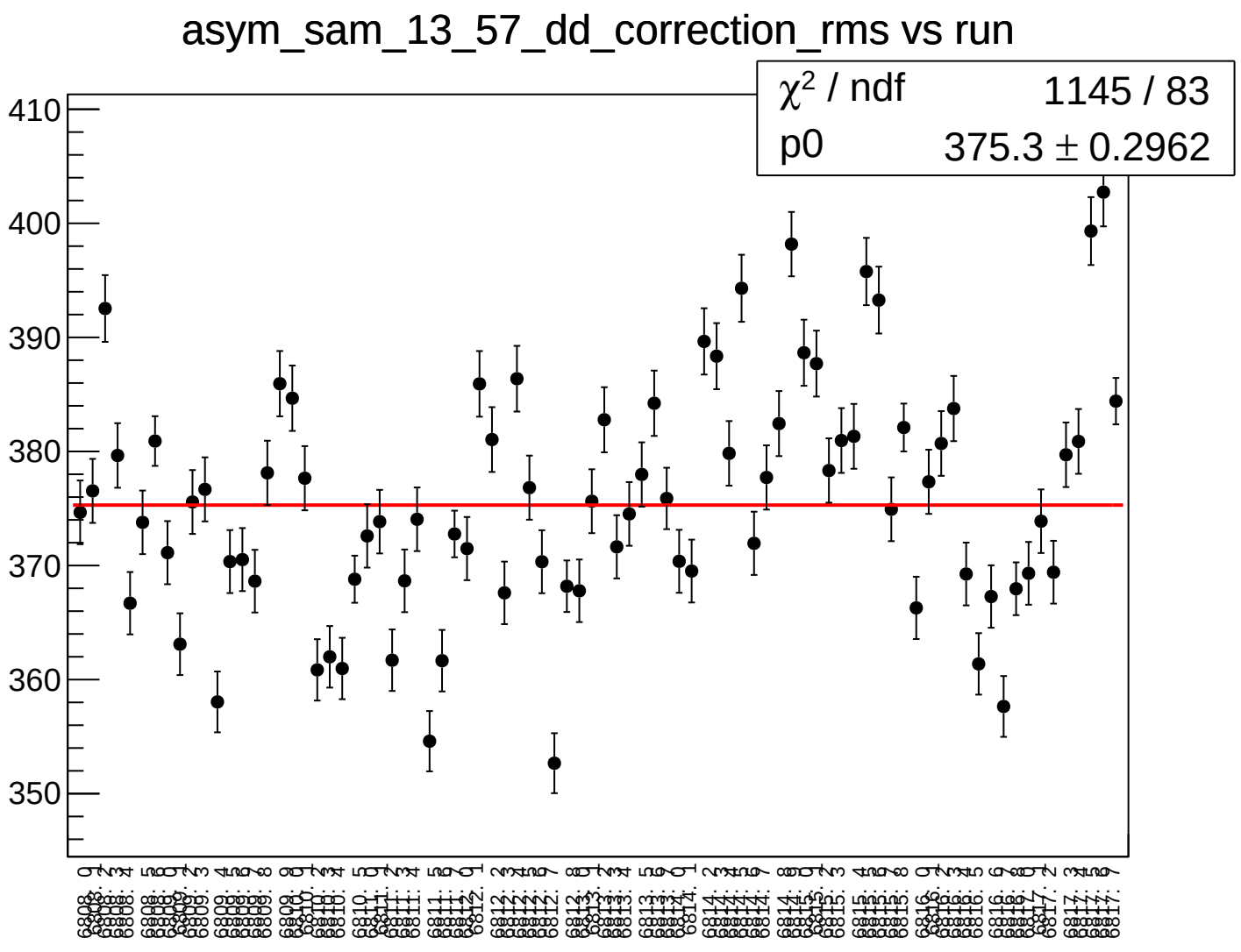

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 81.32 / 83
p0 54.95 ± 72.66
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 159.9
Std Dev 144.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

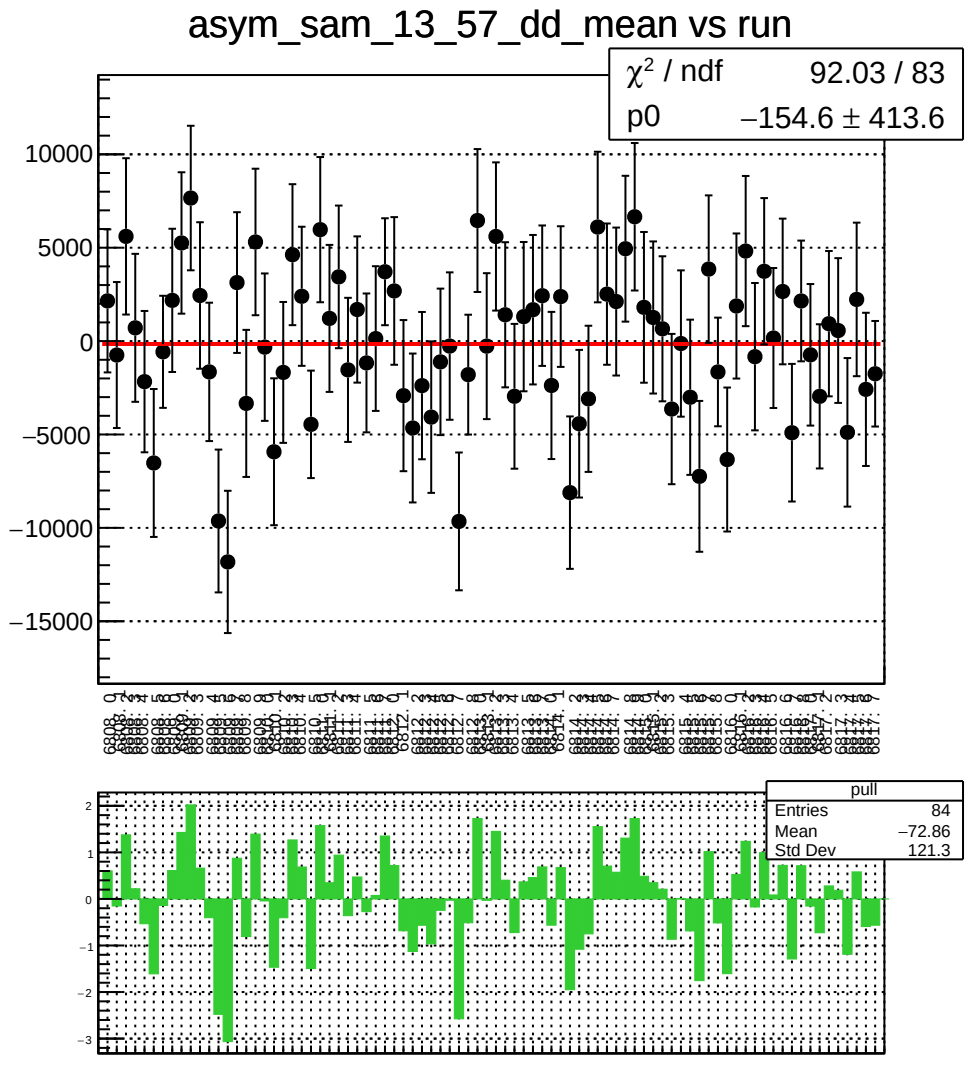

pull1D
Entries 84
Mean −0.01235
Std Dev 0.9839
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

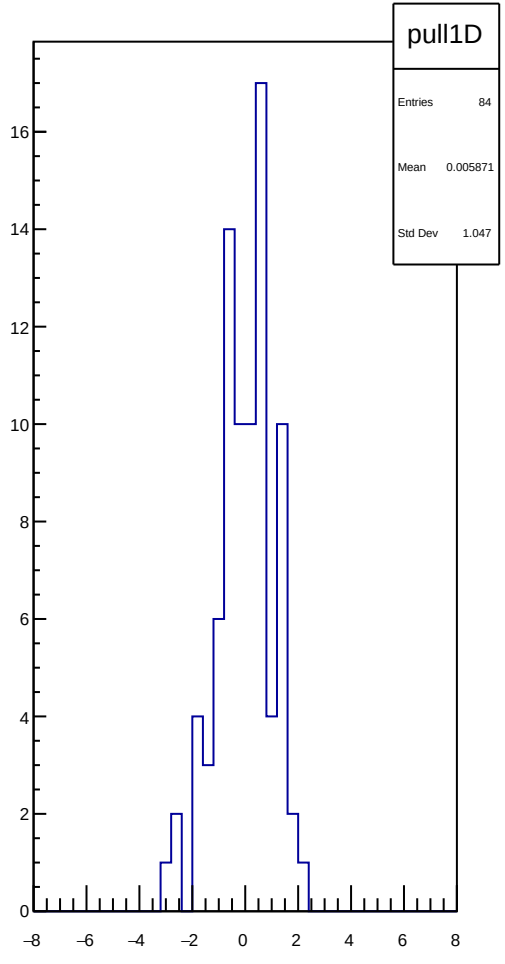

dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 3279 / 83
p0 65.04 ± 0.05138
72
70
68
66
64
62
60

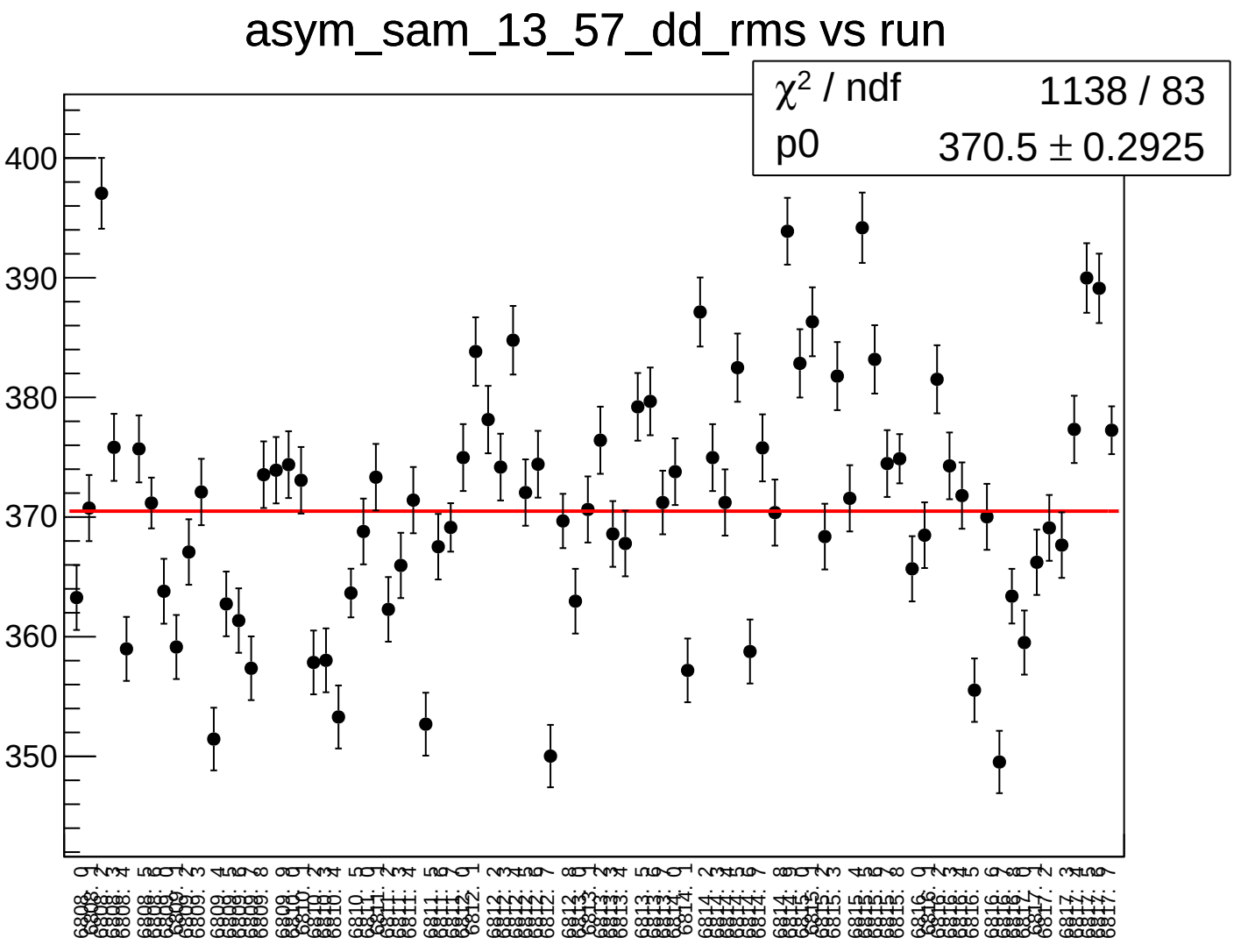

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 91.85 / 83
p0 297.2 ± 419
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −61.28
Std Dev 119.4
3
2
1
0
−1
−2

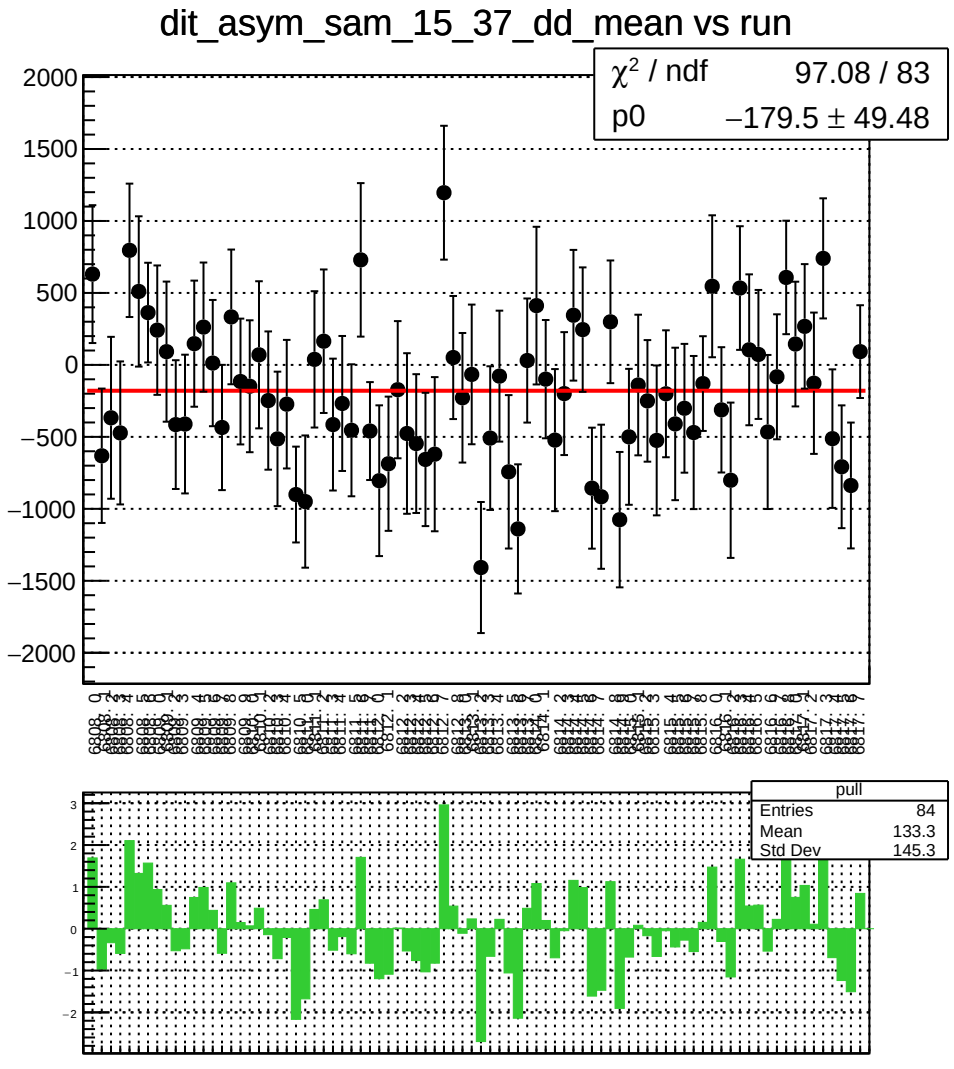

pull1D
Entries 84
Mean −0.005098
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

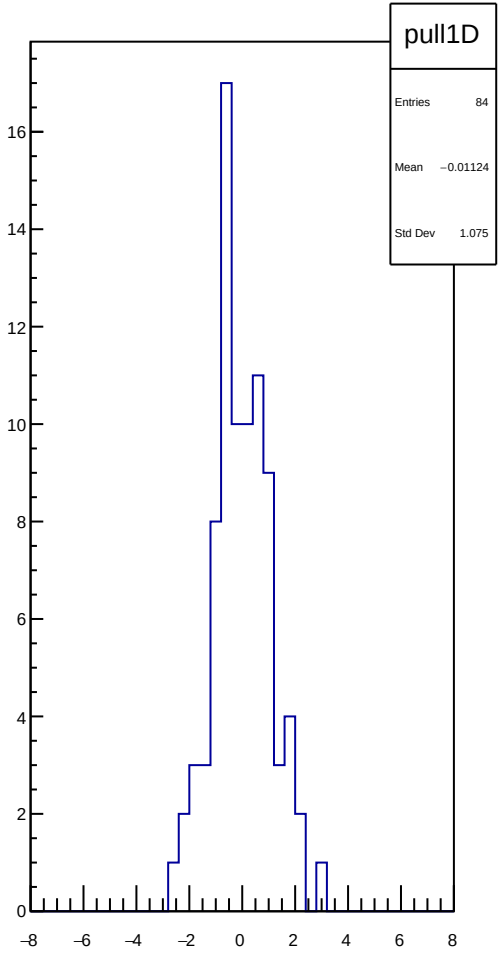

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 1145 / 83
p0 375.3 ± 0.2962
410
400
390
380
370
360
350

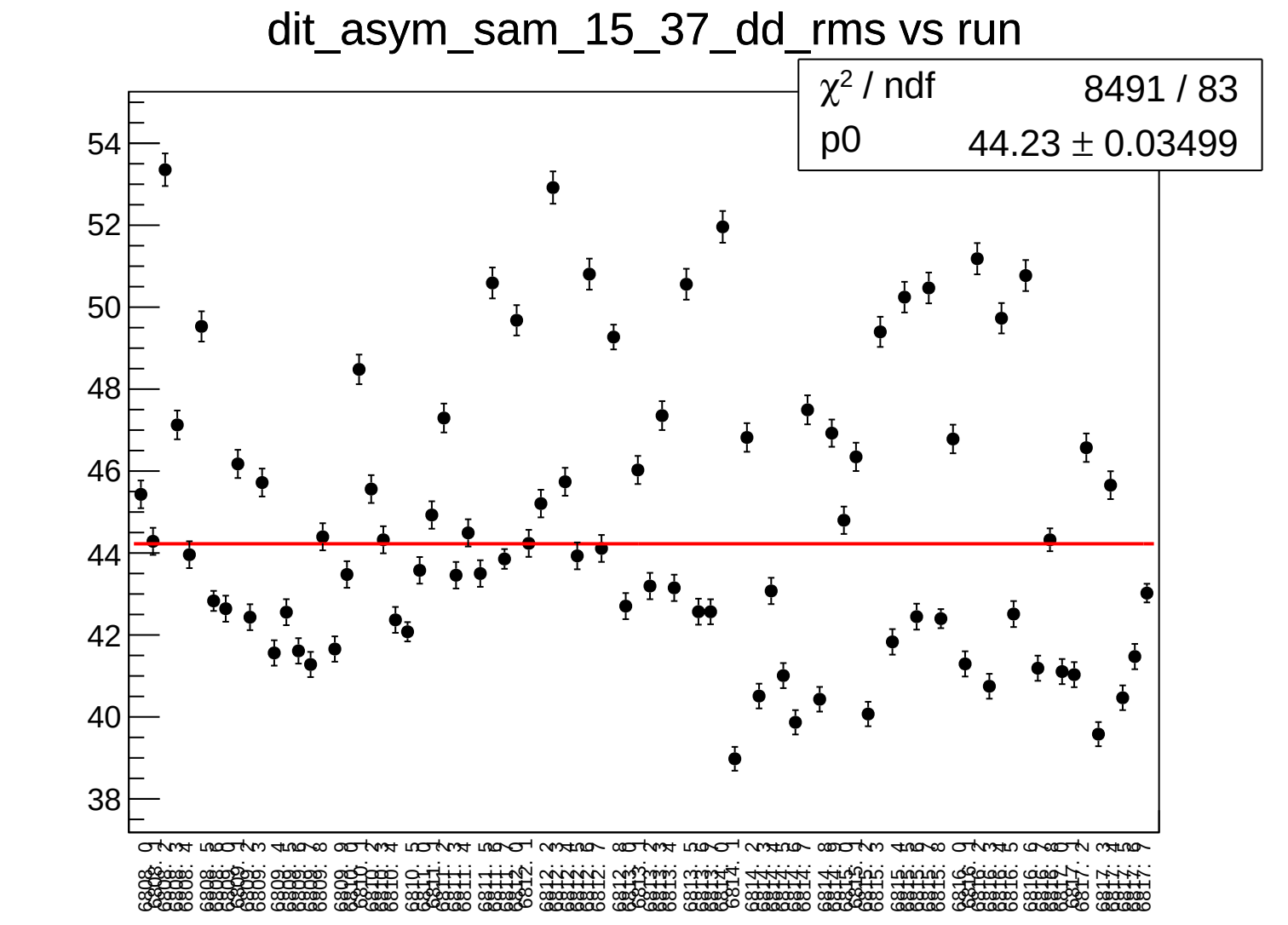

asym_sam_13_57_dd_mean vs run
χ² / ndf 92.03 / 83
p0 −154.6 ± 413.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −72.86
Std Dev 121.3
2
1
0
−1
−2
−3

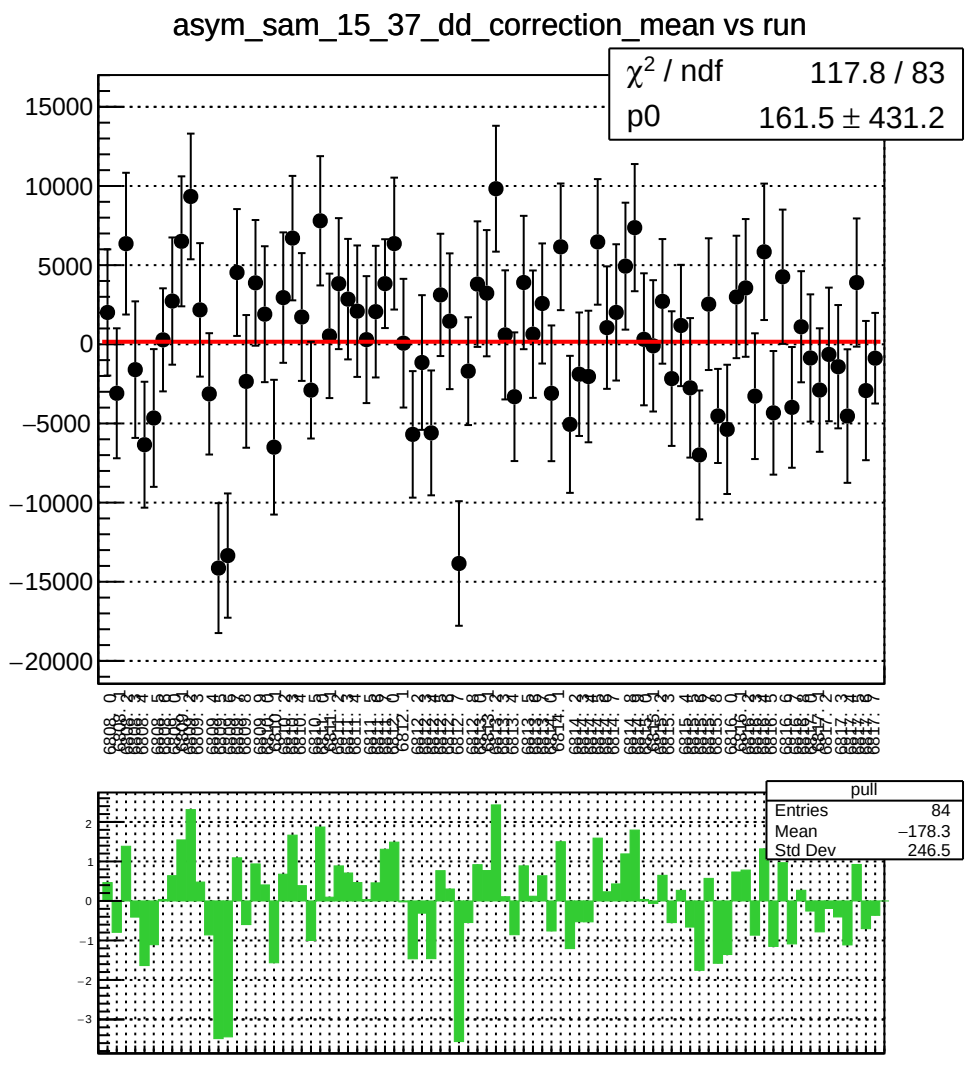

pull1D
Entries 84
Mean 0.005871
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

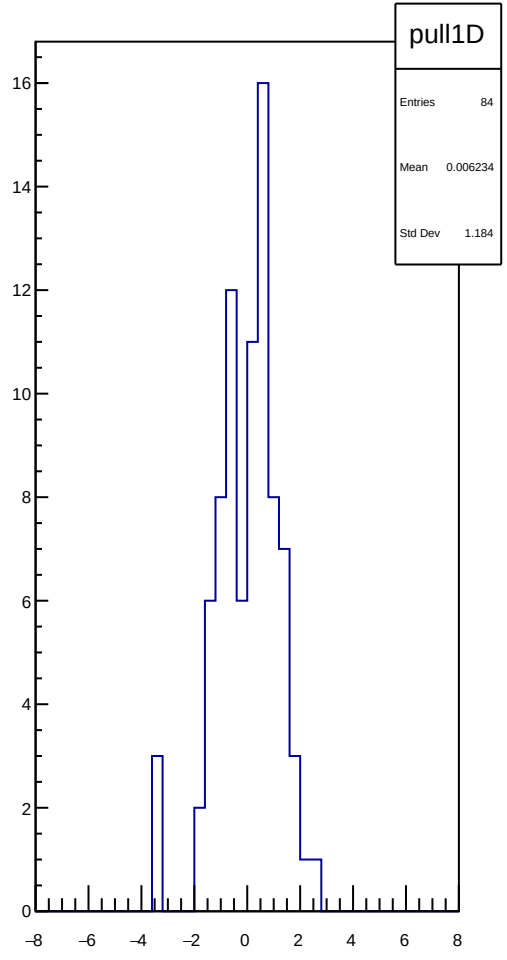

asym_sam_13_57_dd_rms vs run
χ² / ndf 1138 / 83
p0 370.5 ± 0.2925
400
390
380
370
360
350

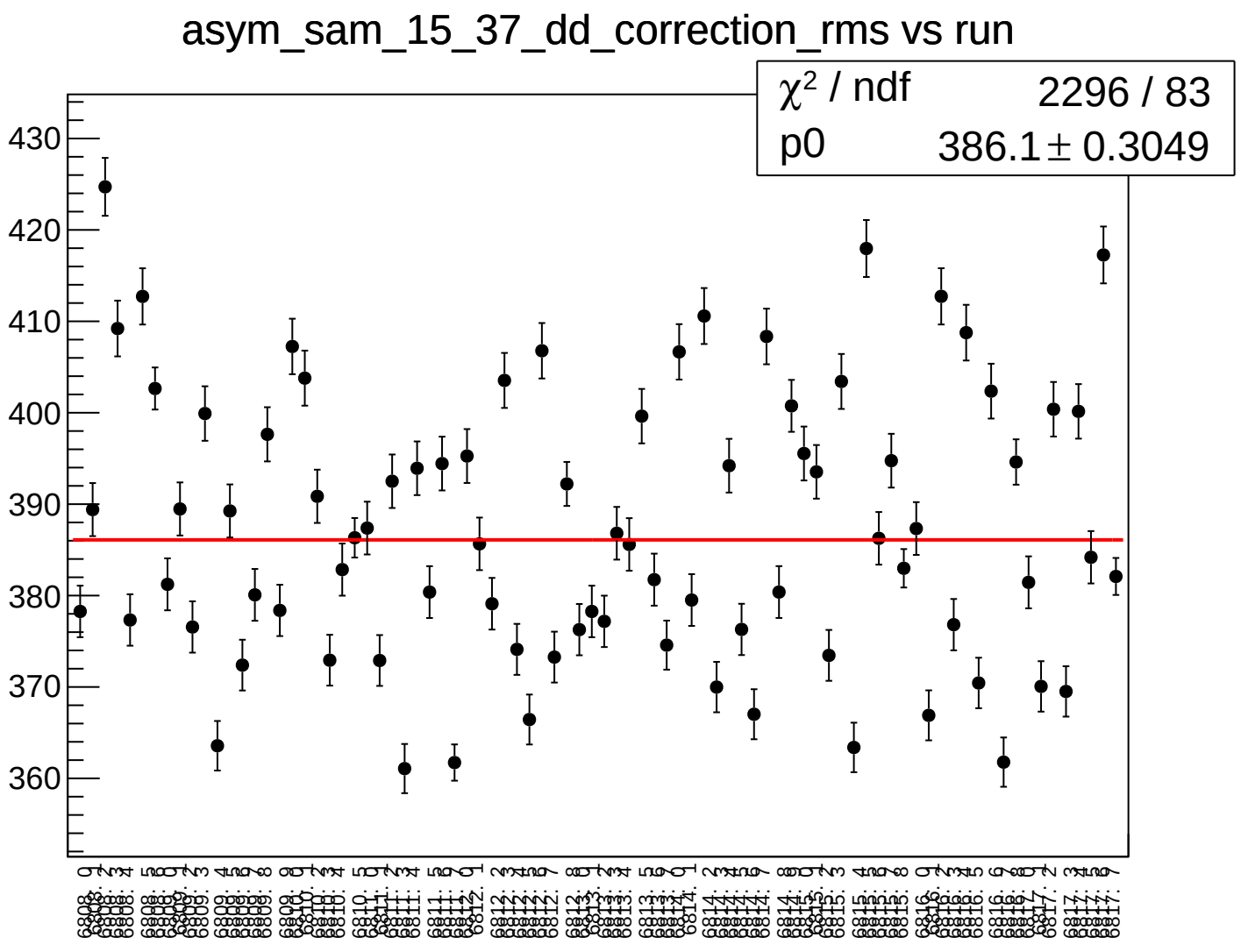

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 97.08 / 83
p0 −179.5 ± 49.48
pull
Entries 84
Mean 133.3
Std Dev 145.3

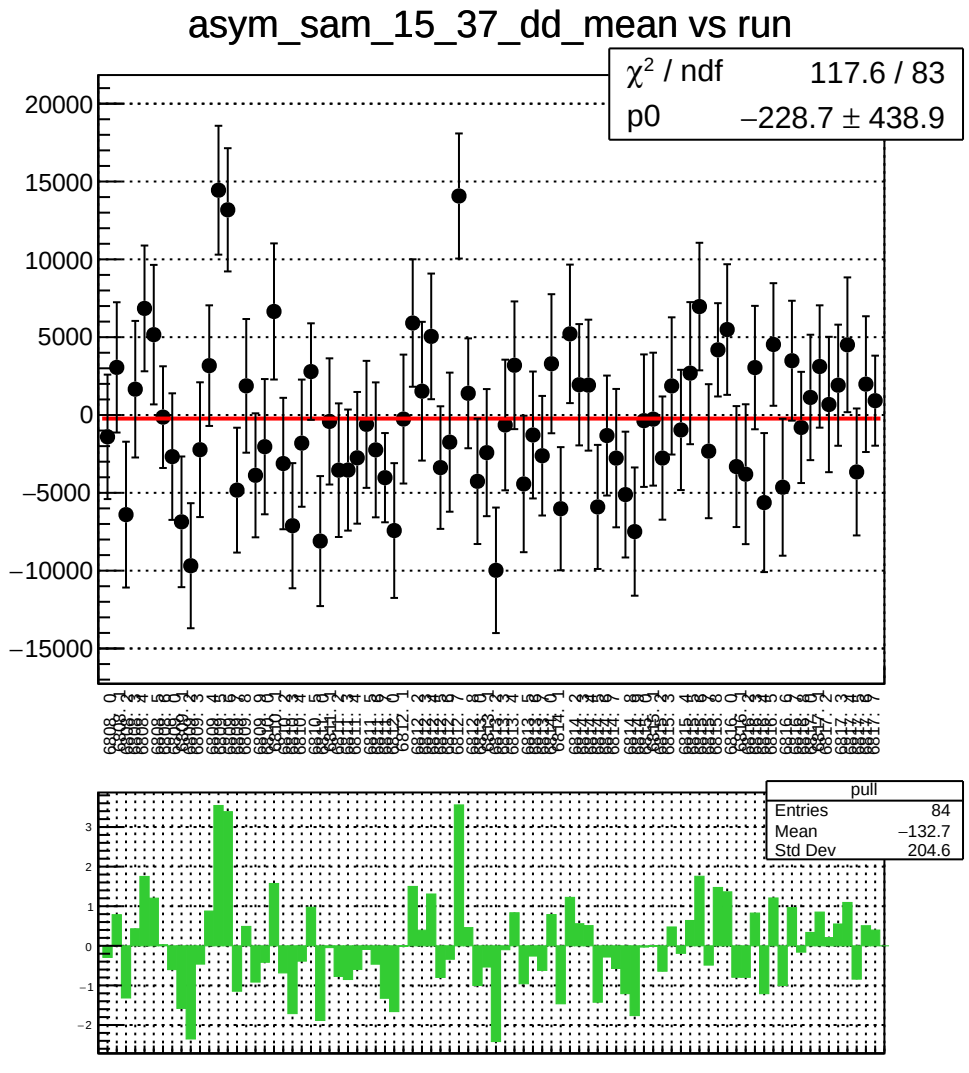

pull1D
Entries 84
Mean −0.01124
Std Dev 1.075

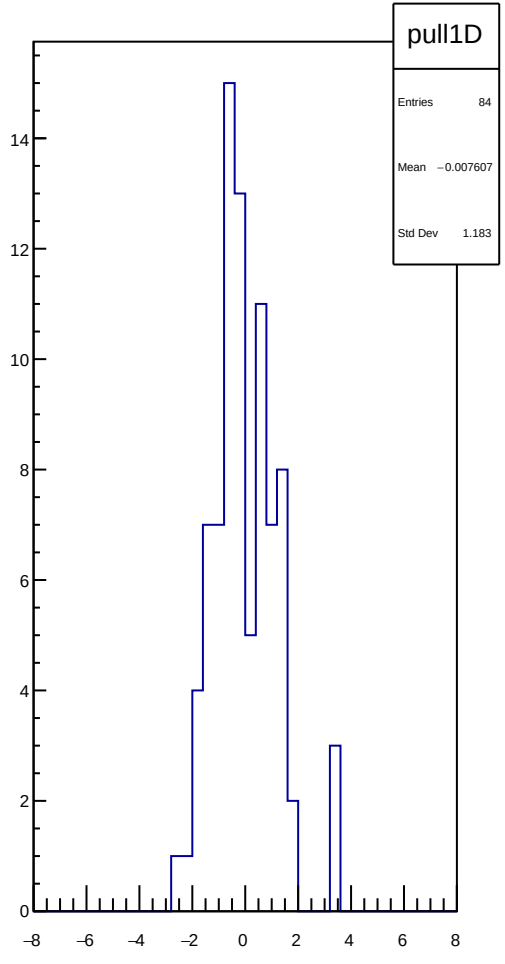

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 8491 / 83
p0 44.23 ± 0.03499
54
52
50
48
46
44
42
40
38

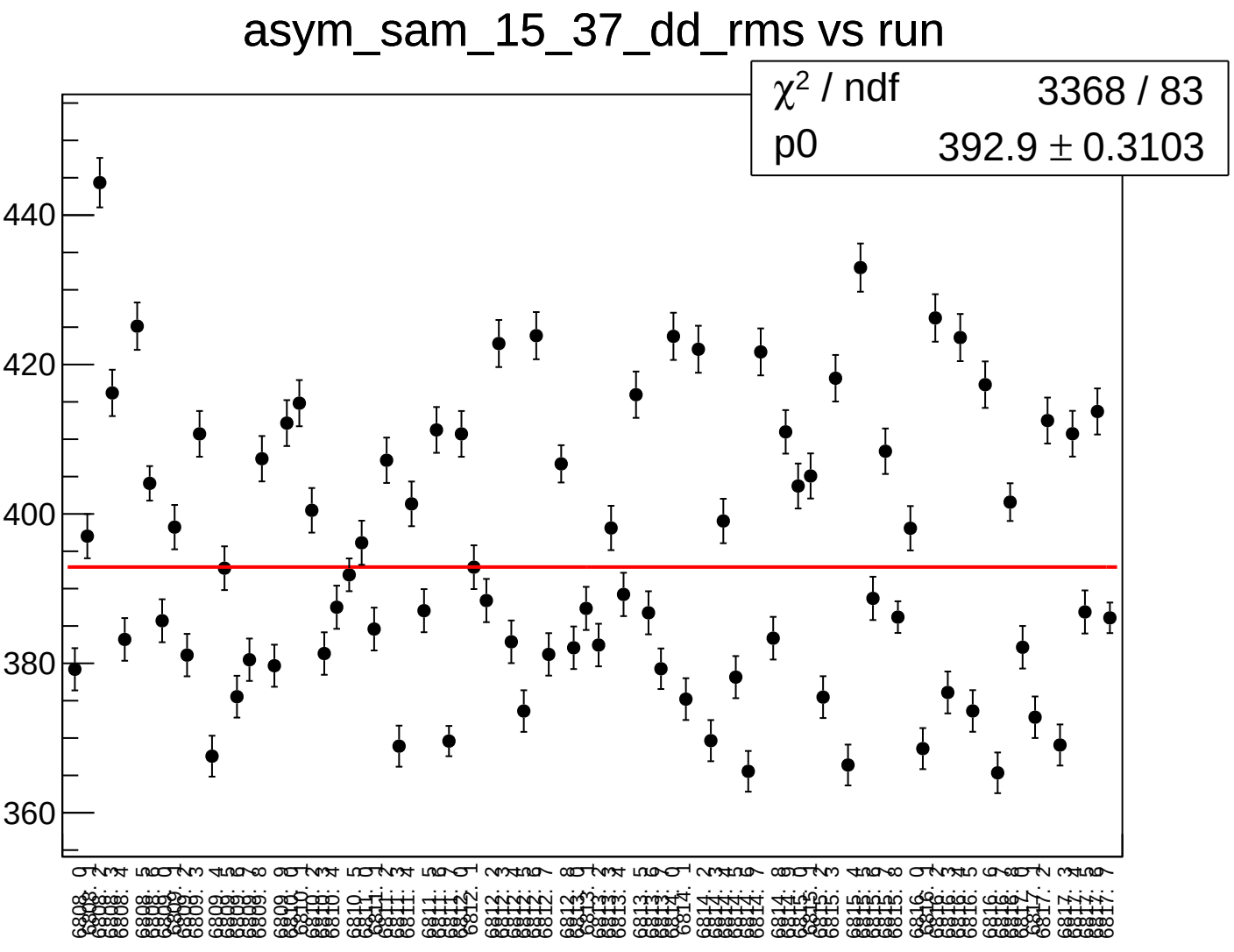

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 117.8 / 83
p0 161.5 ± 431.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean −178.3
Std Dev 246.5
2
1
0
−1
−2
−3

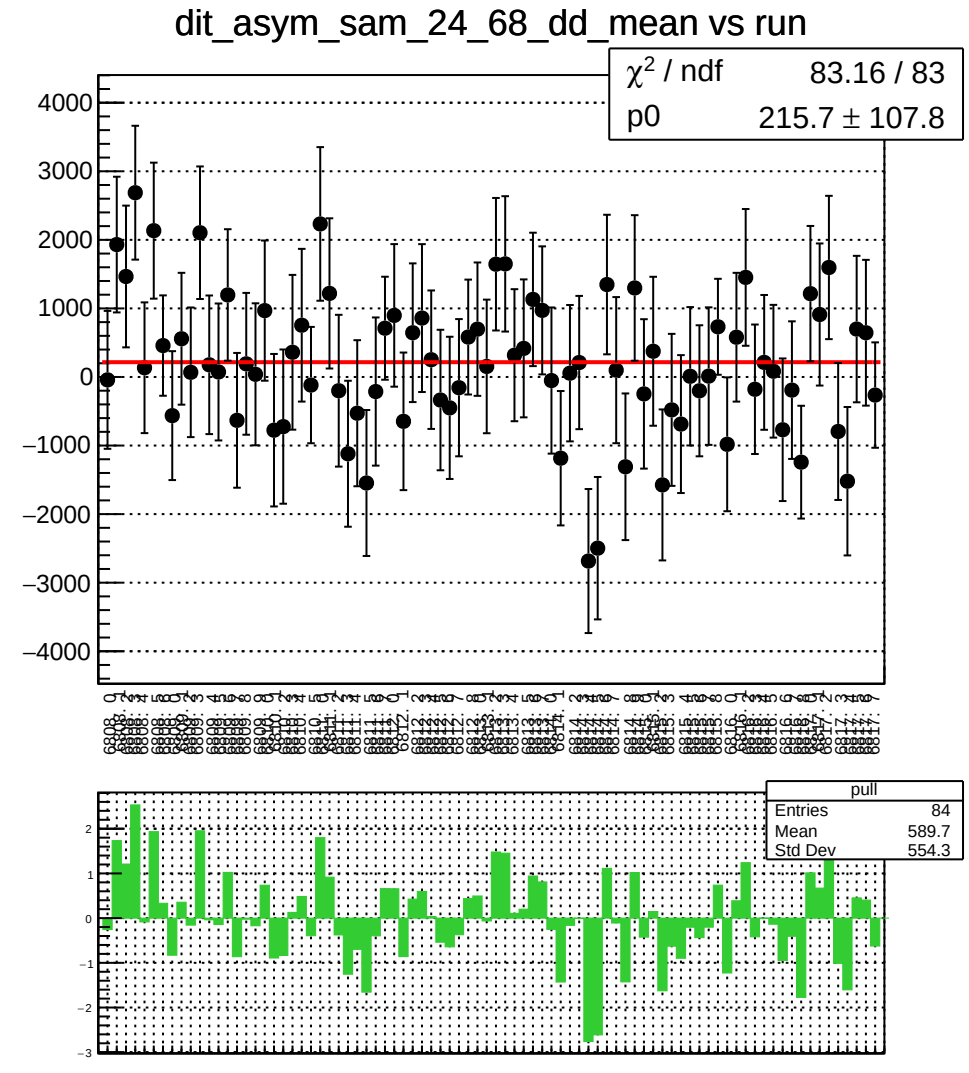

pull1D
Entries 84
Mean 0.006234
Std Dev 1.184
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

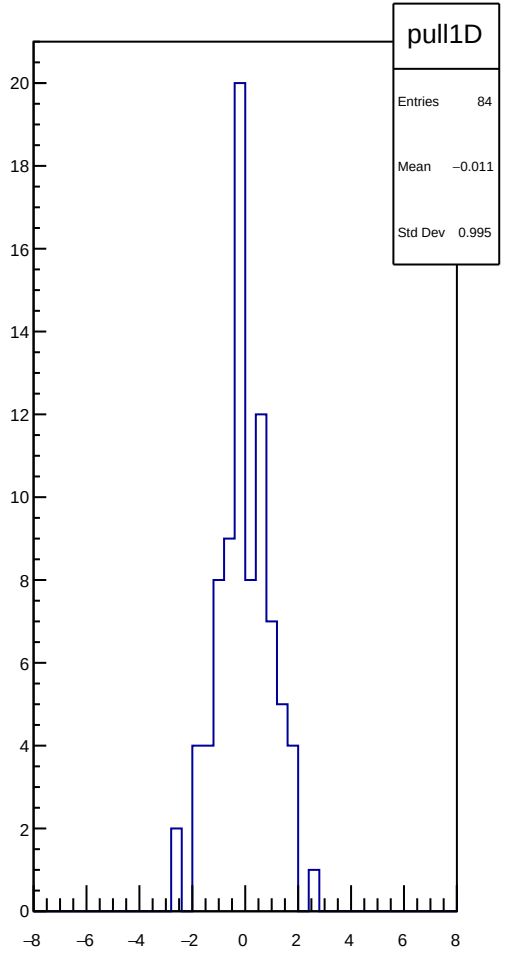

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 2296 / 83
p0 386.1 ± 0.3049
430
420
410
400
390
380
370
360

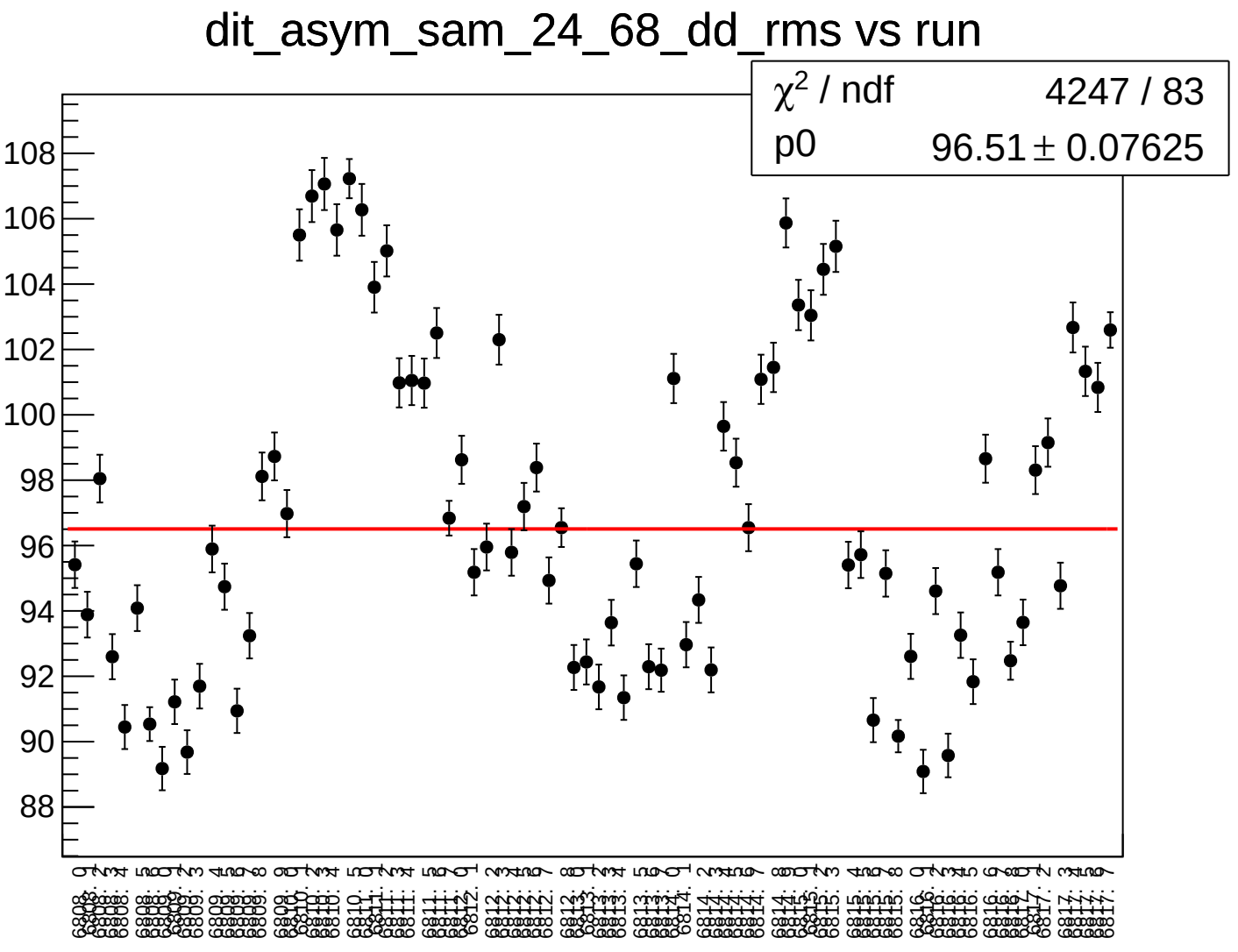

asym_sam_15_37_dd_mean vs run
χ² / ndf 117.6 / 83
p0 −228.7 ± 438.9
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −132.7
Std Dev 204.6
3
2
1
0
−1
−2

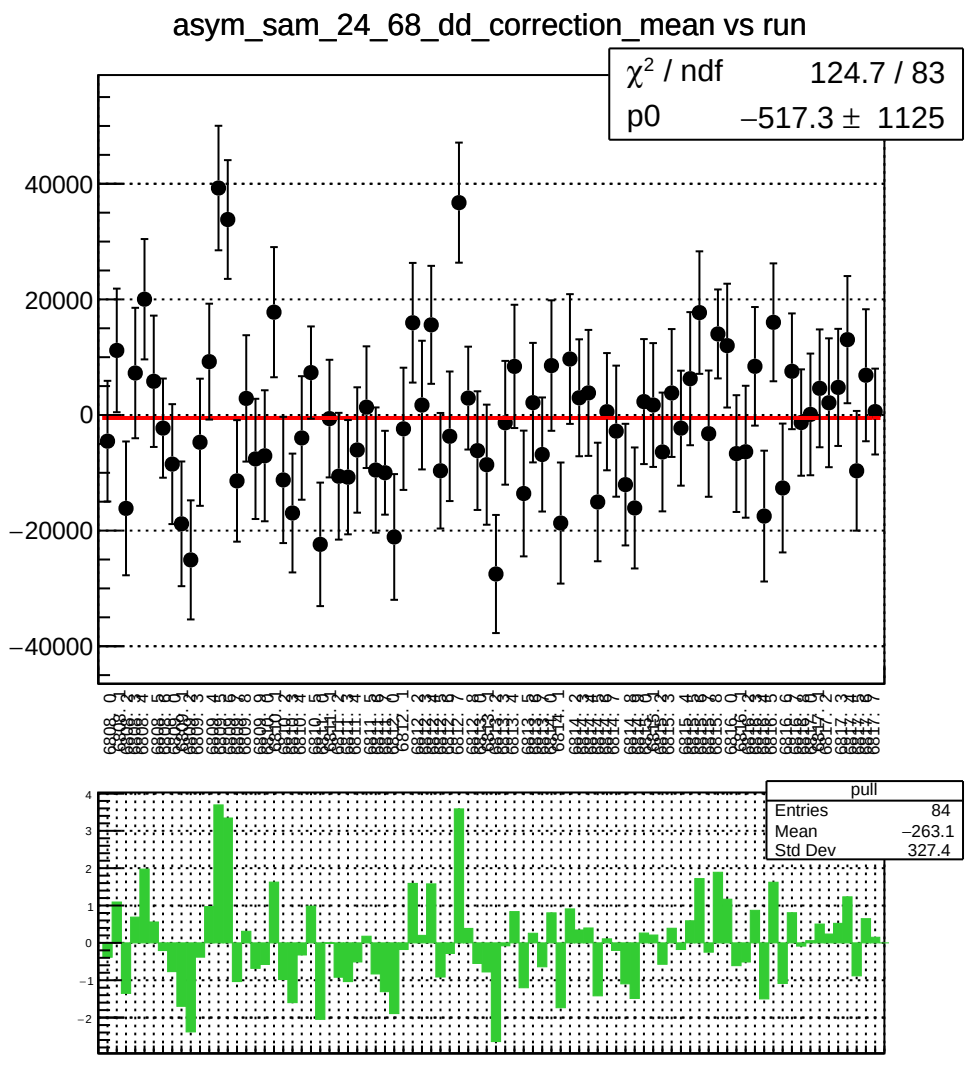

pull1D
Entries 84
Mean −0.007607
Std Dev 1.183
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

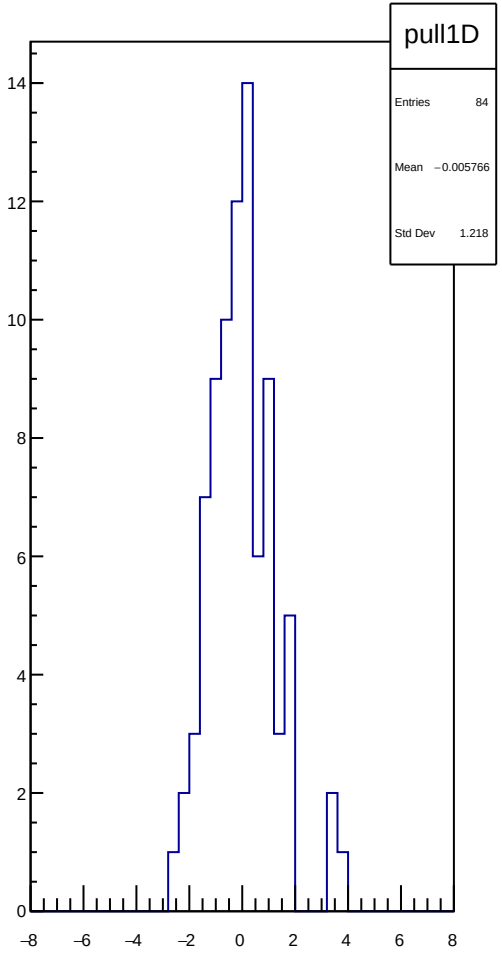

asym_sam_15_37_dd_rms vs run
χ^2 / ndf 3368 / 83
p0 392.9 ± 0.3103
440
420
400
380
360

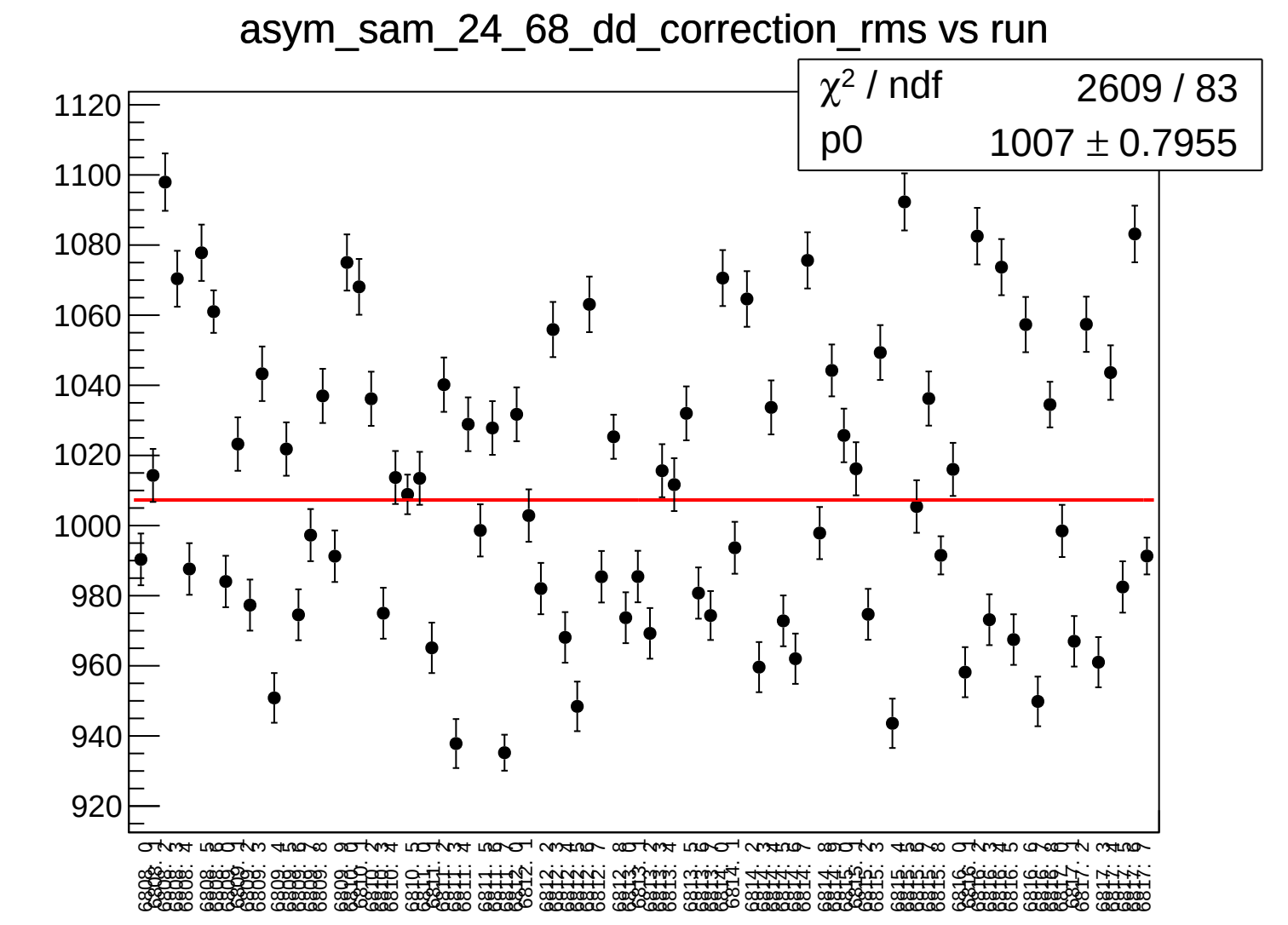

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 83.16 / 83
p0 215.7 ± 107.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 84
Mean 589.7
Std Dev 554.3
2
1
0
−1
−2
−3

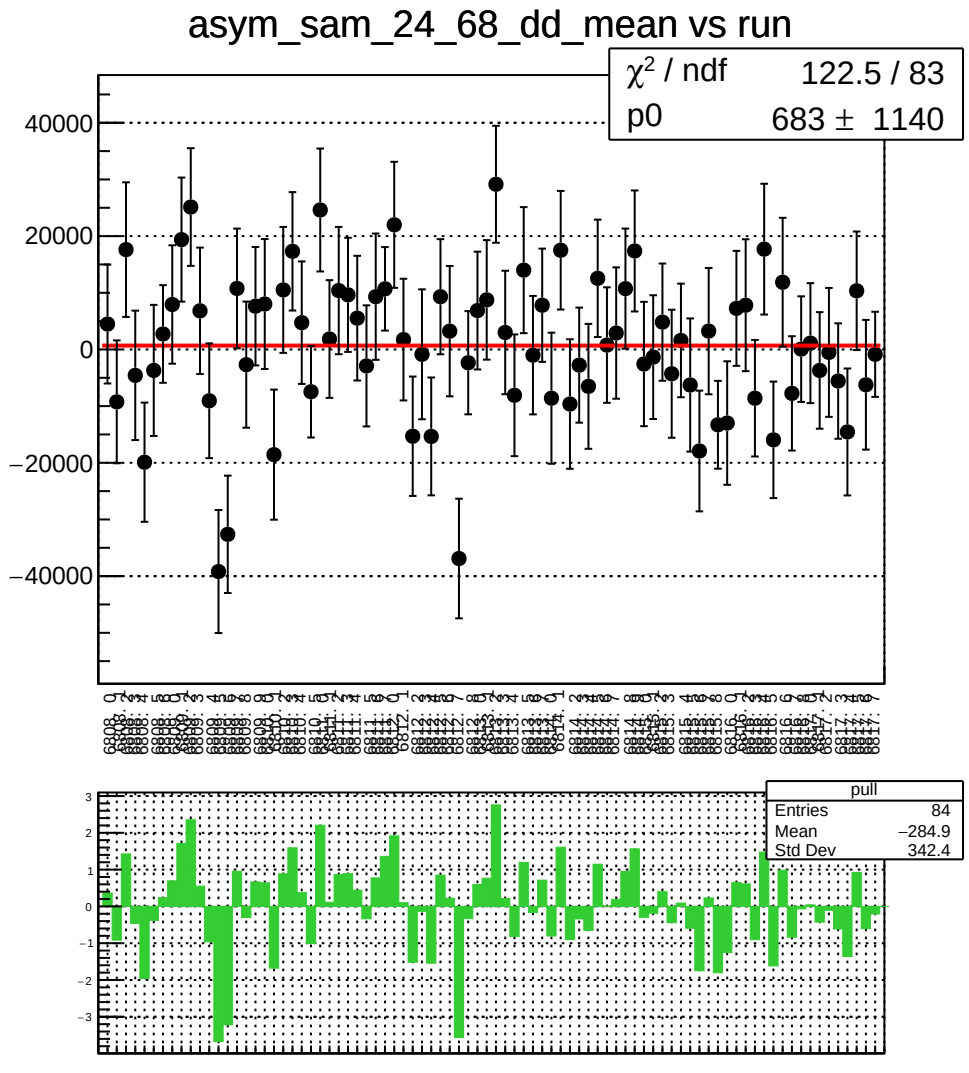

pull1D
Entries 84
Mean −0.011
Std Dev 0.995
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

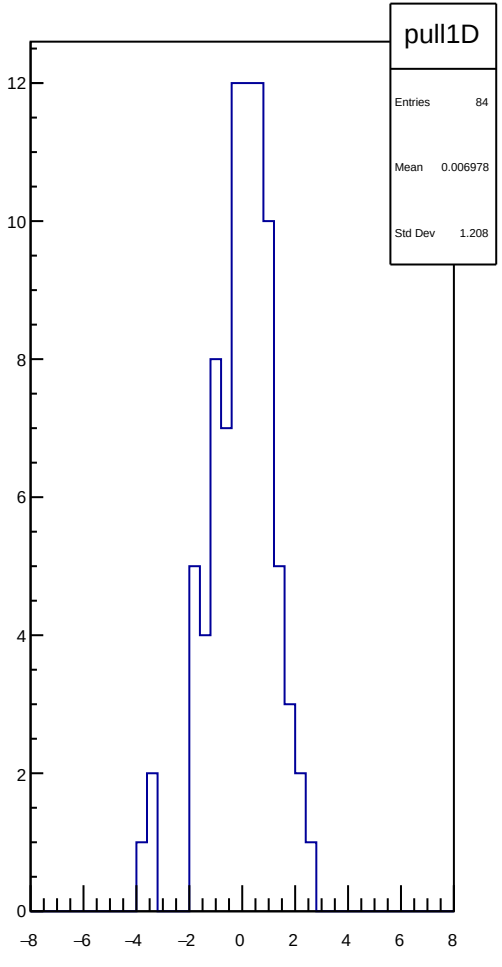

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 4247 / 83
p0 96.51 ± 0.07625
108
106
104
102
100
98
96
94
92
90
88

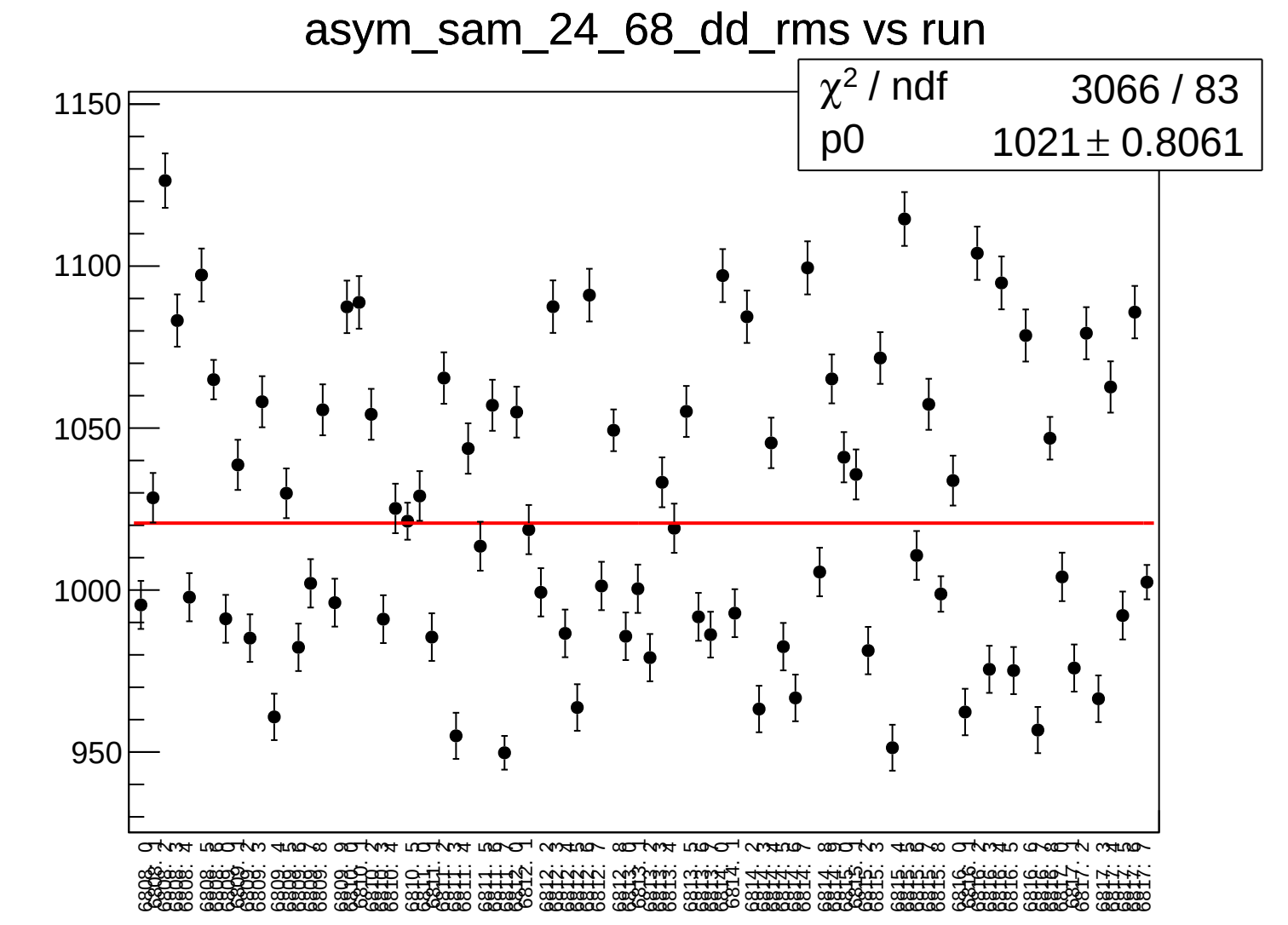

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 124.7 / 83
p0 −517.3 ± 1125
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −263.1
Std Dev 327.4
4
3
2
1
0
−1
−2

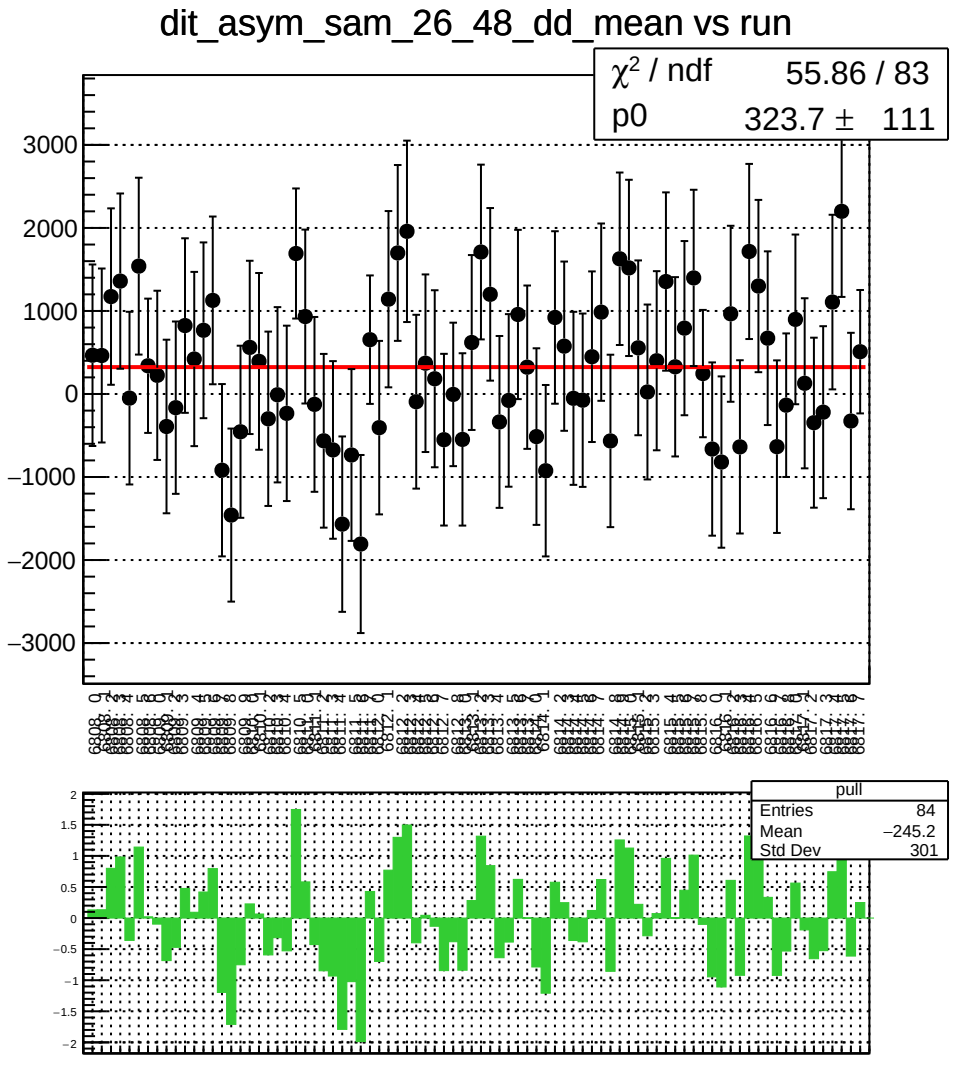

pull1D
Entries 84
Mean −0.005766
Std Dev 1.218
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

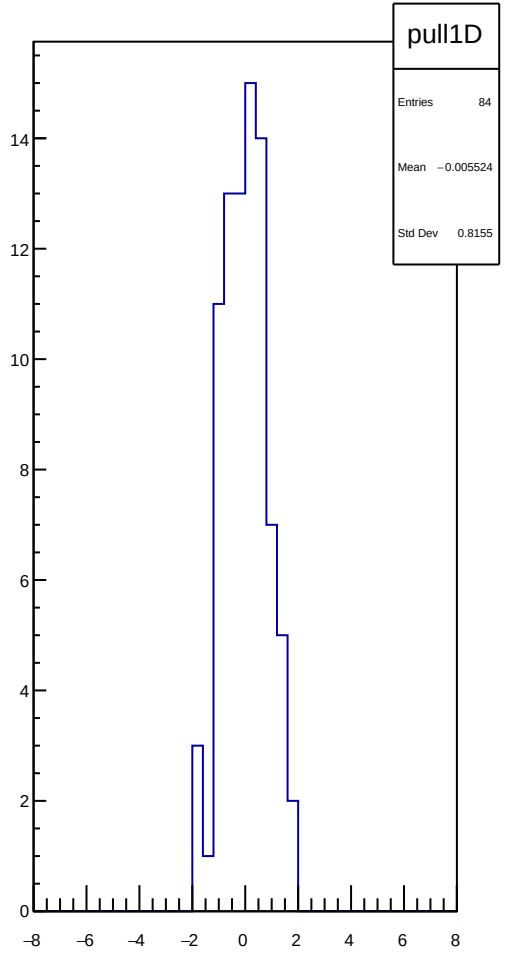

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 2609 / 83
p0 1007 ± 0.7955
1120
1100
1080
1060
1040
1020
1000
980
960
940
920

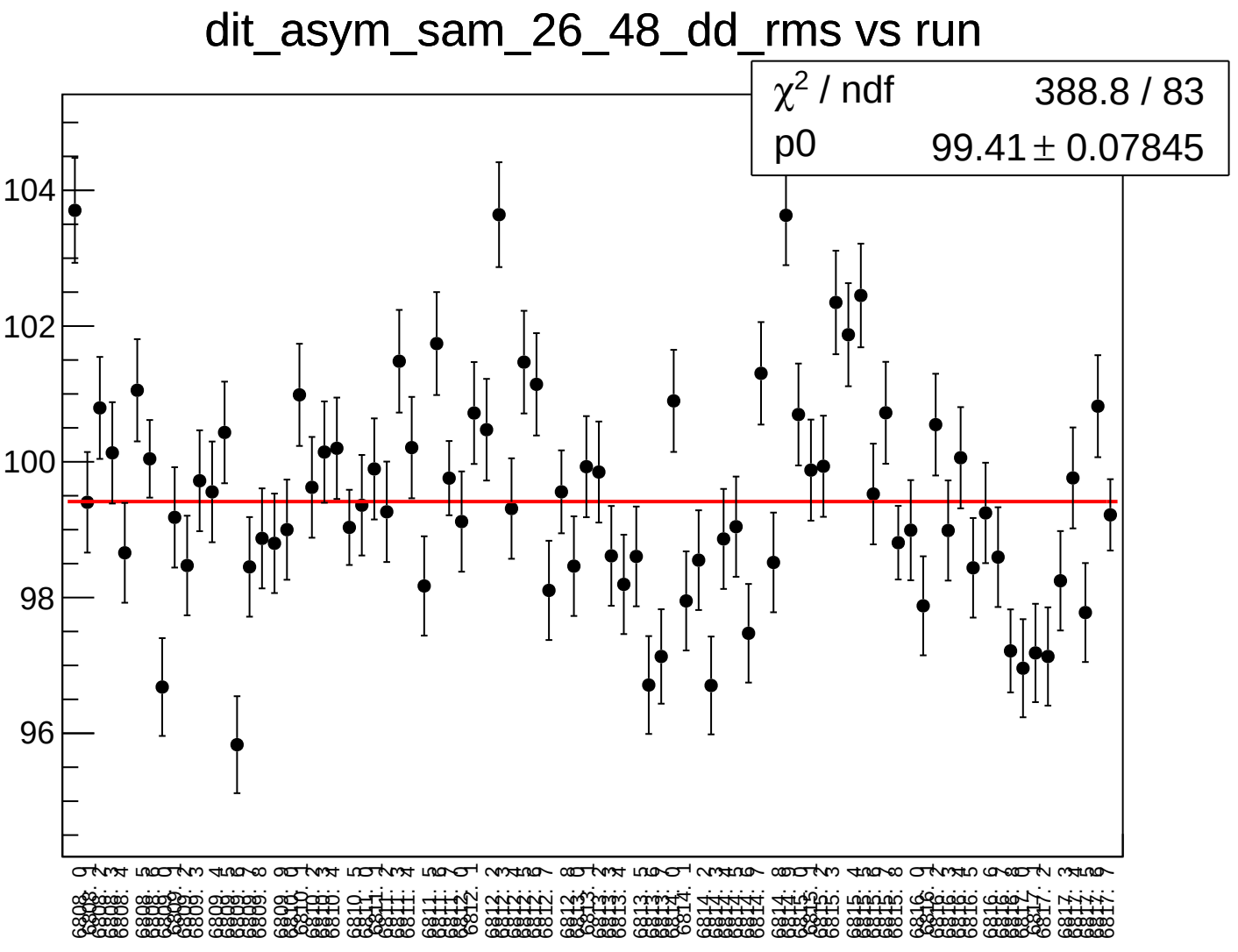

asym_sam_24_68_dd_mean vs run
χ² / ndf 122.5 / 83
p0 683 ± 1140
40000
20000
0
−20000
−40000
pull
Entries 84
Mean −284.9
Std Dev 342.4
3
2
1
0
−1
−2
−3

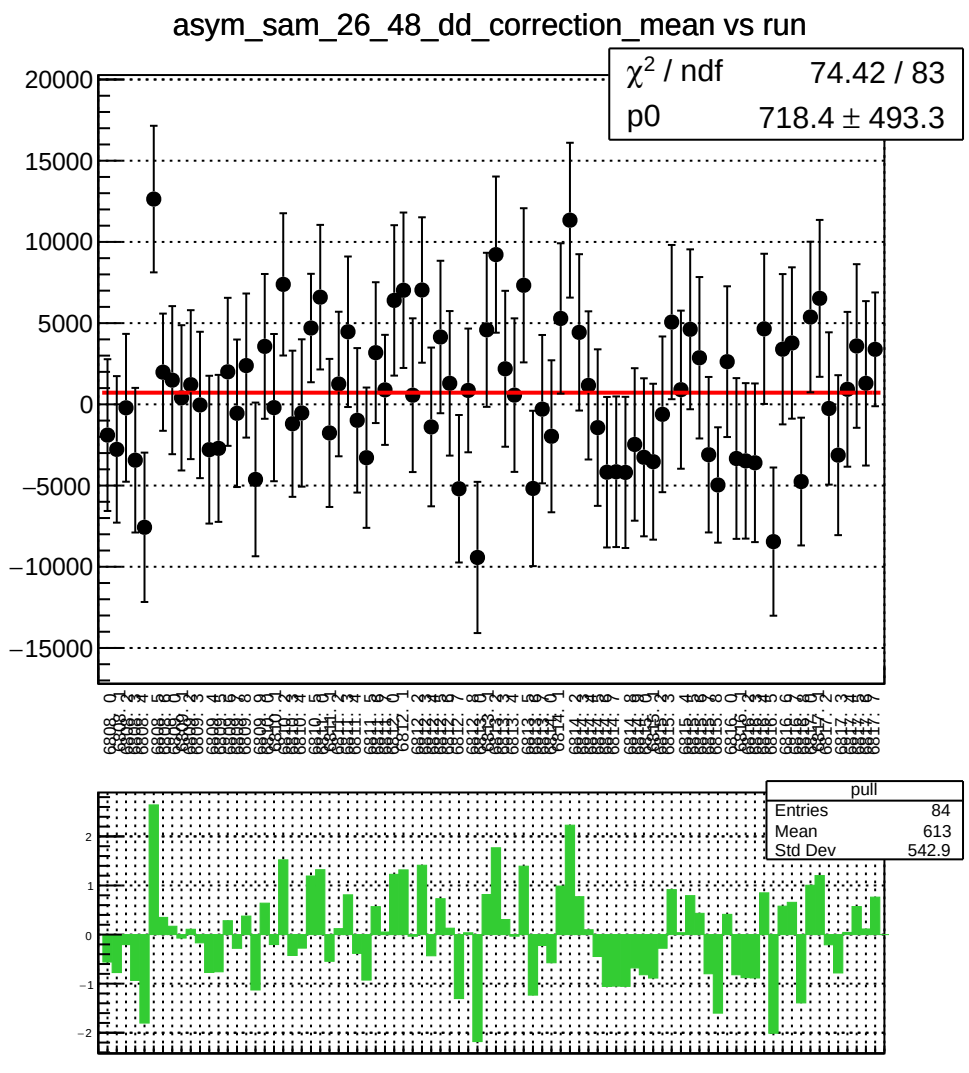

pull1D
Entries 84
Mean 0.006978
Std Dev 1.208
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

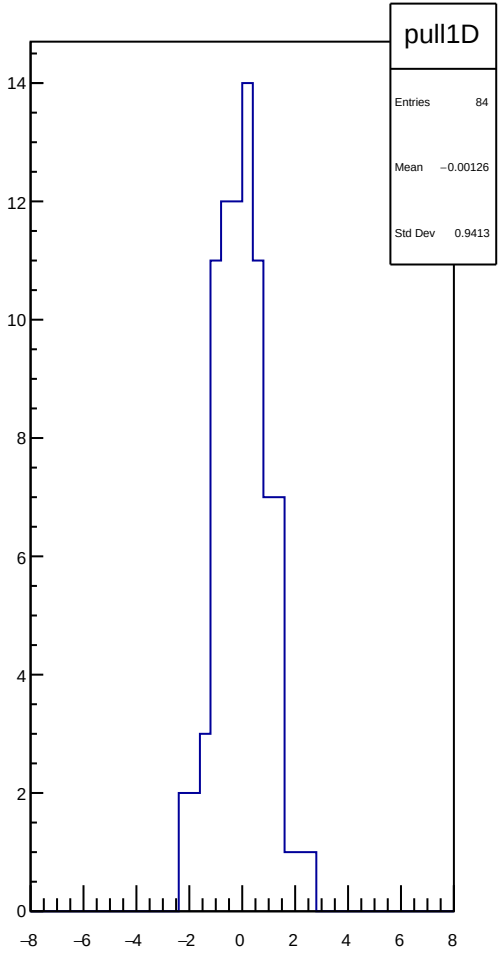

asym_sam_24_68_dd_rms vs run
χ^2 / ndf 3066 / 83
p0 1021 ± 0.8061
1150
1100
1050
1000
950

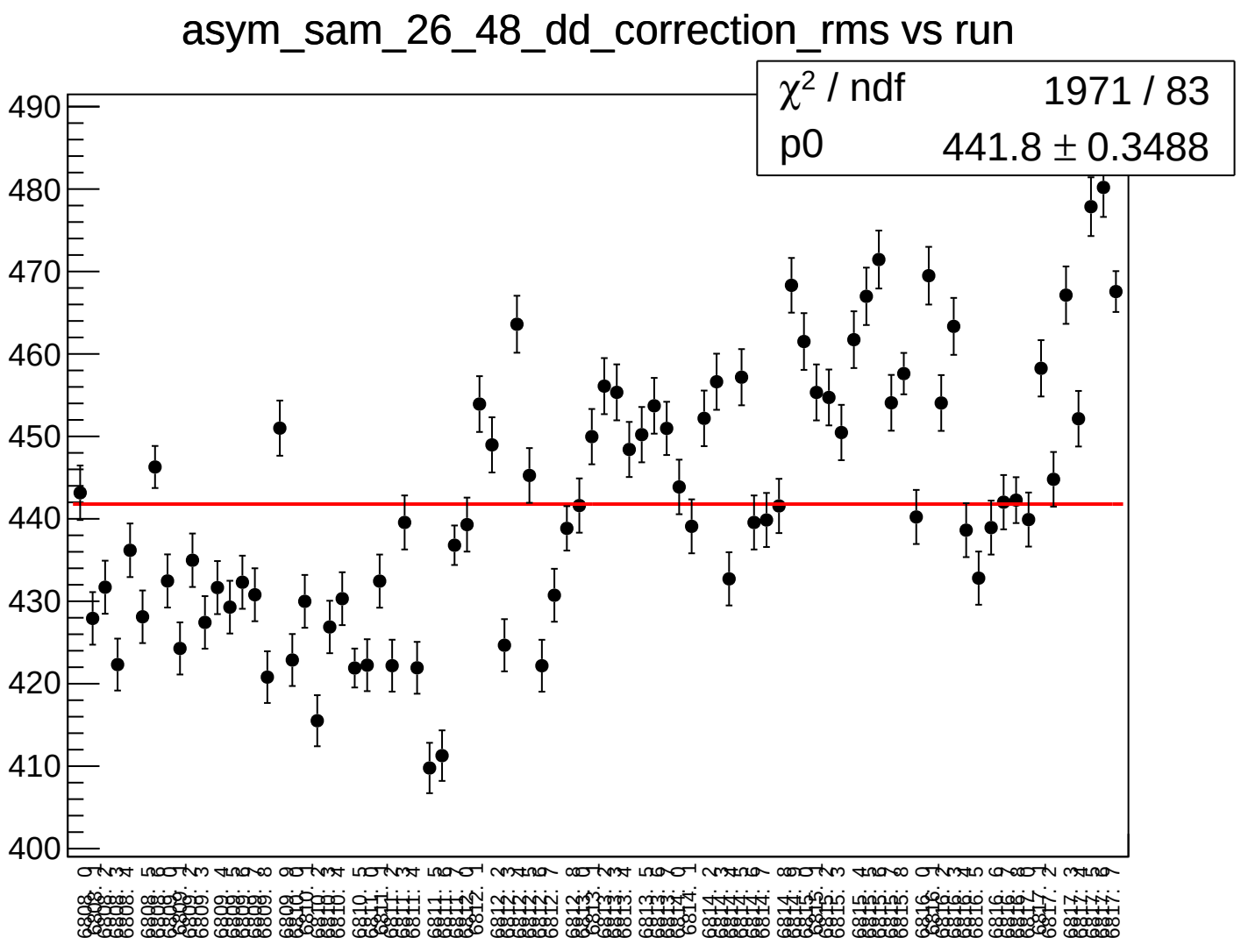

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 55.86 / 83
p0 323.7 ± 111
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −245.2
Std Dev 301
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

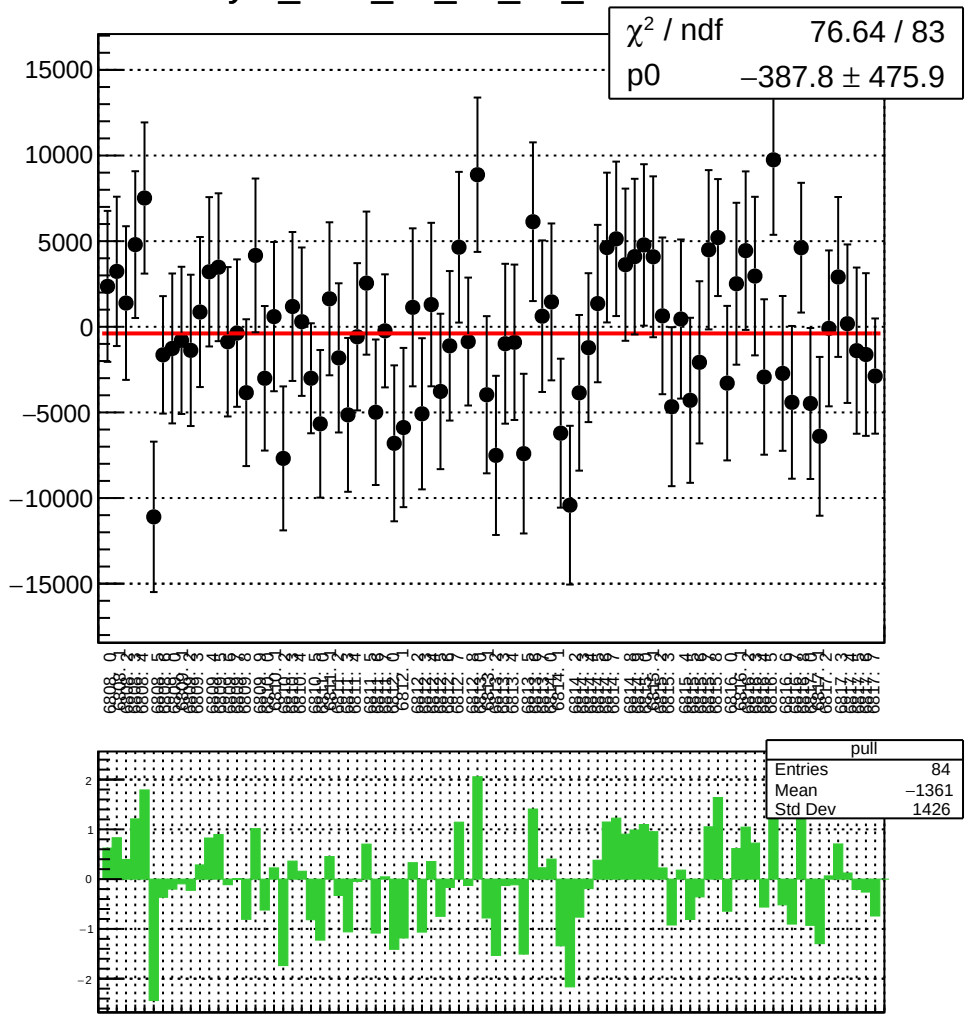

pull1D
Entries 84
Mean −0.005524
Std Dev 0.8155
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

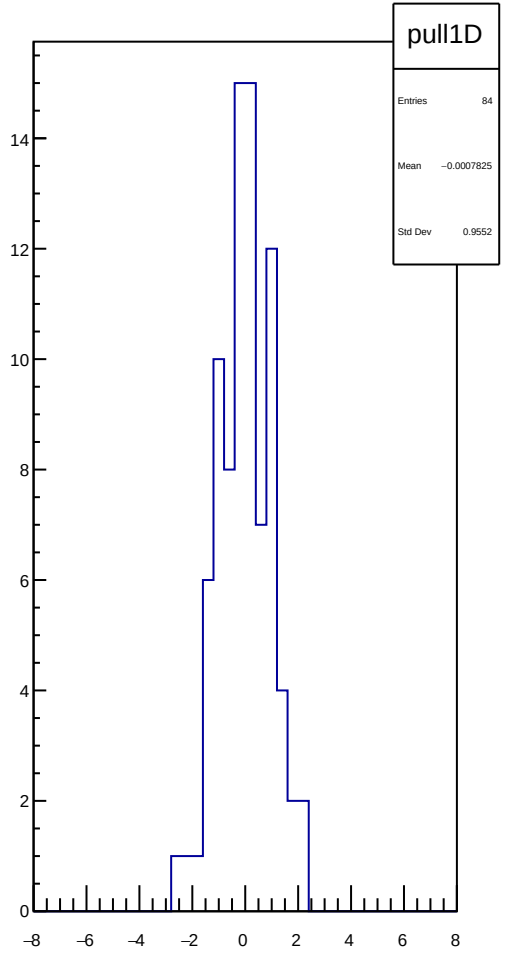

dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 388.8 / 83
p0 99.41 ± 0.07845
104
102
100
98
96

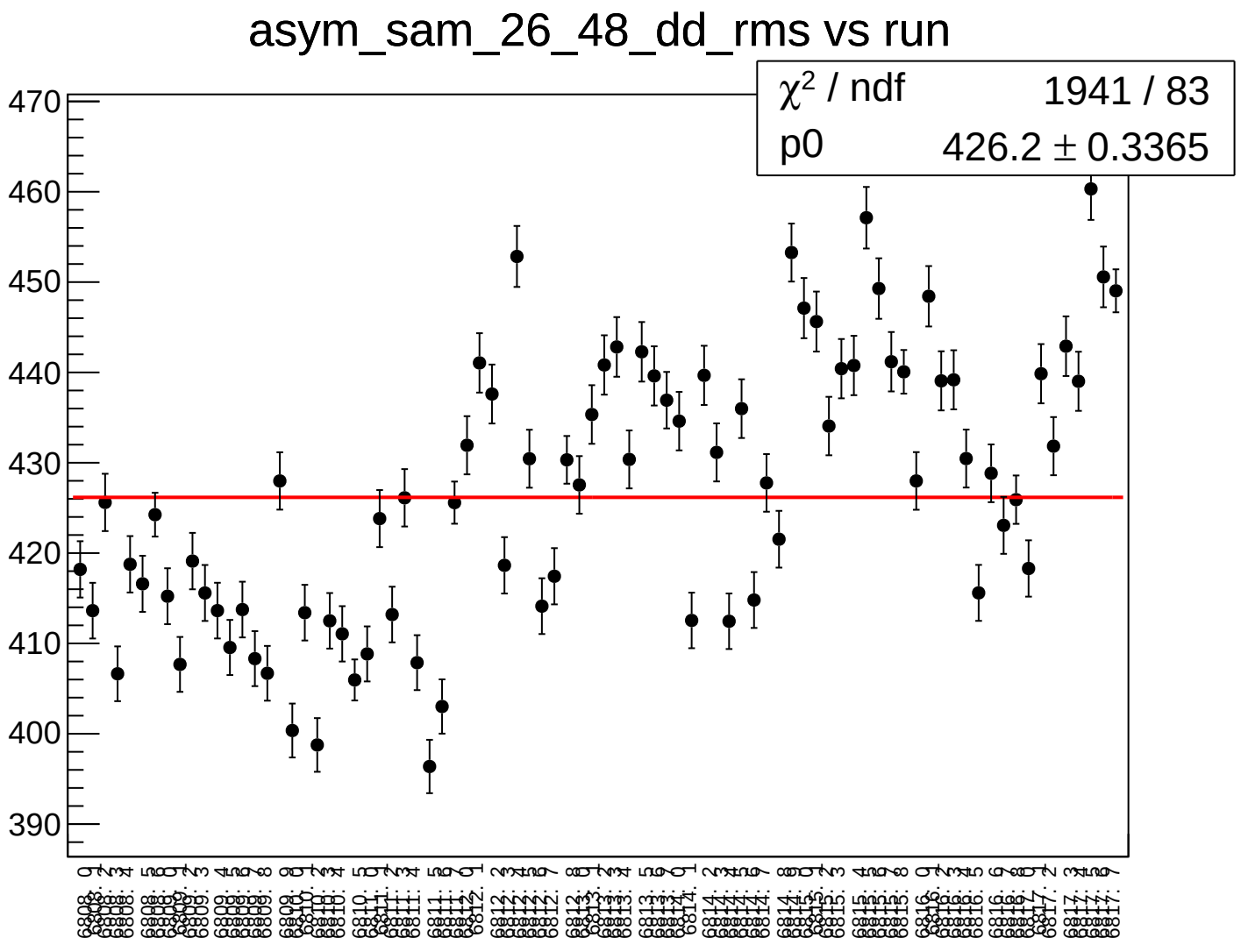

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 74.42 / 83
p0 718.4 ± 493.3
pull
Entries 84
Mean 613
Std Dev 542.9

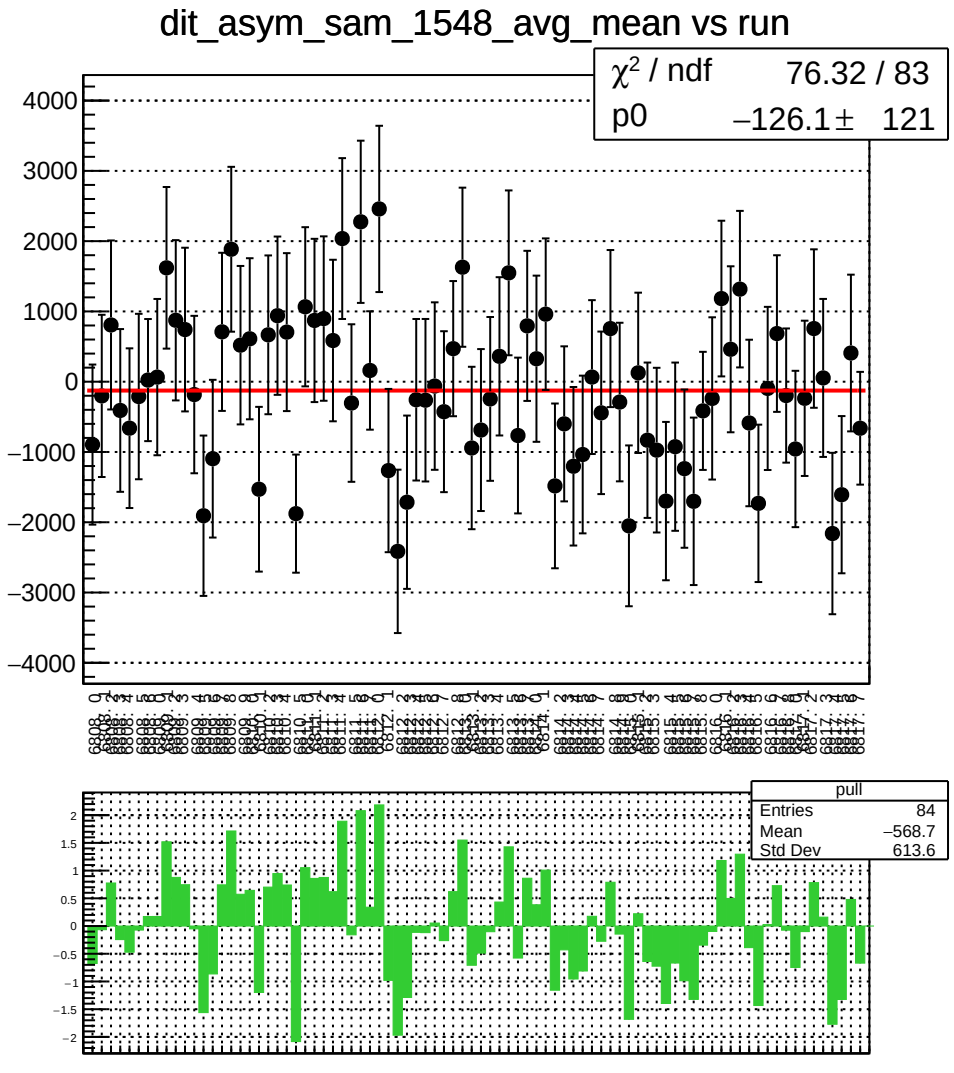

pull1D
Entries 84
Mean −0.00126
Std Dev 0.9413

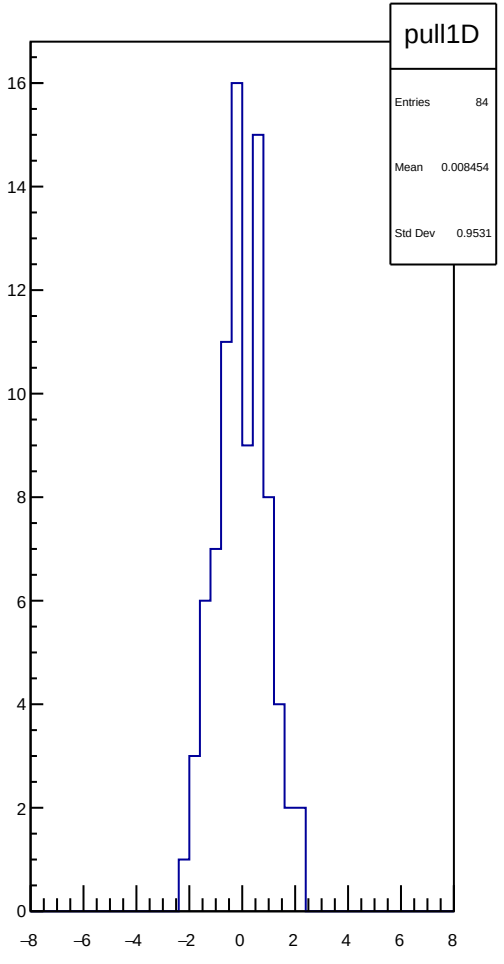

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 1971 / 83
p0 441.8 ± 0.3488
490
480
470
460
450
440
430
420
410
400

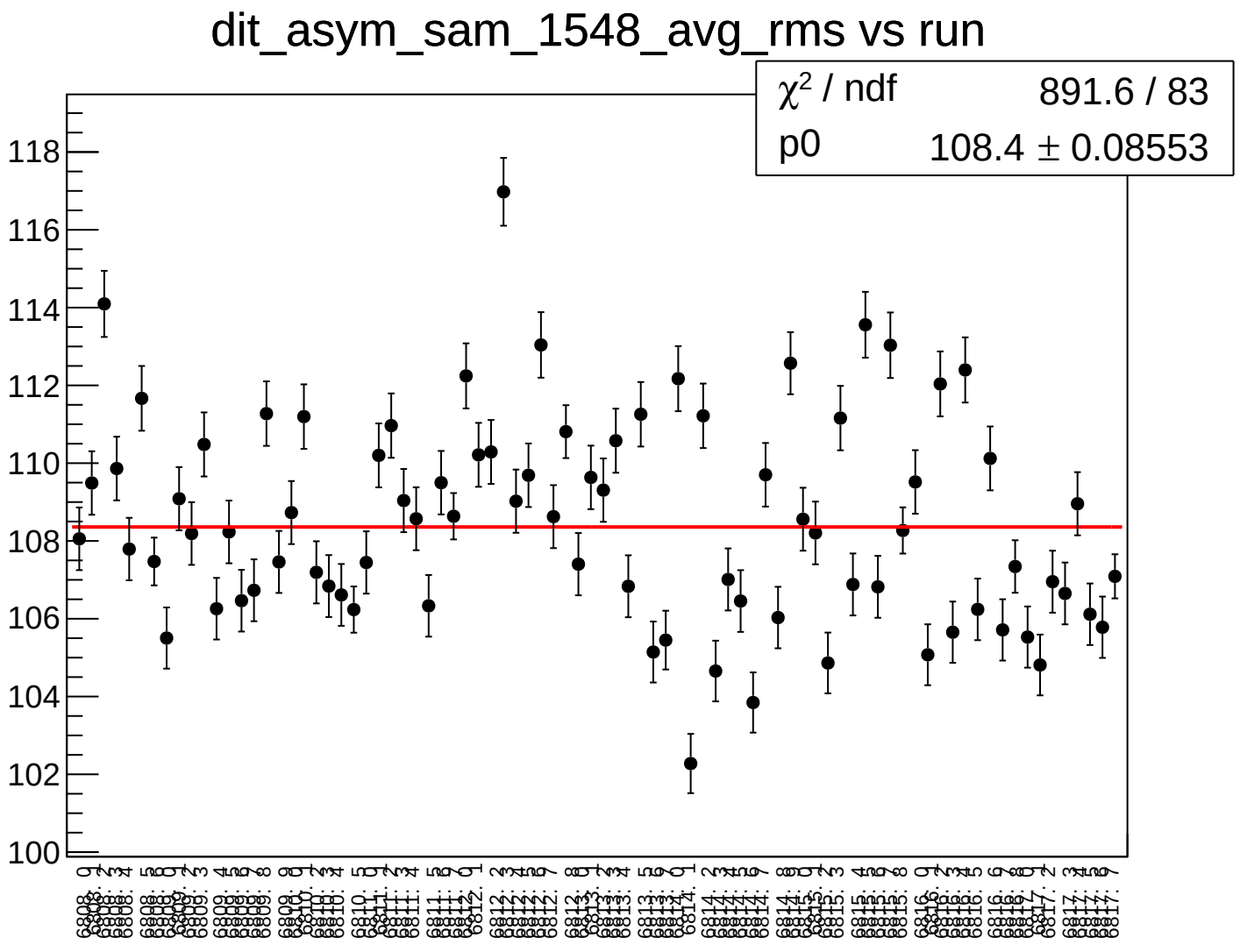

asym_sam_26_48_dd_mean vs run
χ² / ndf 76.64 / 83
p0 −387.8 ± 475.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −1361
Std Dev 1426
2
1
0
−1
−2

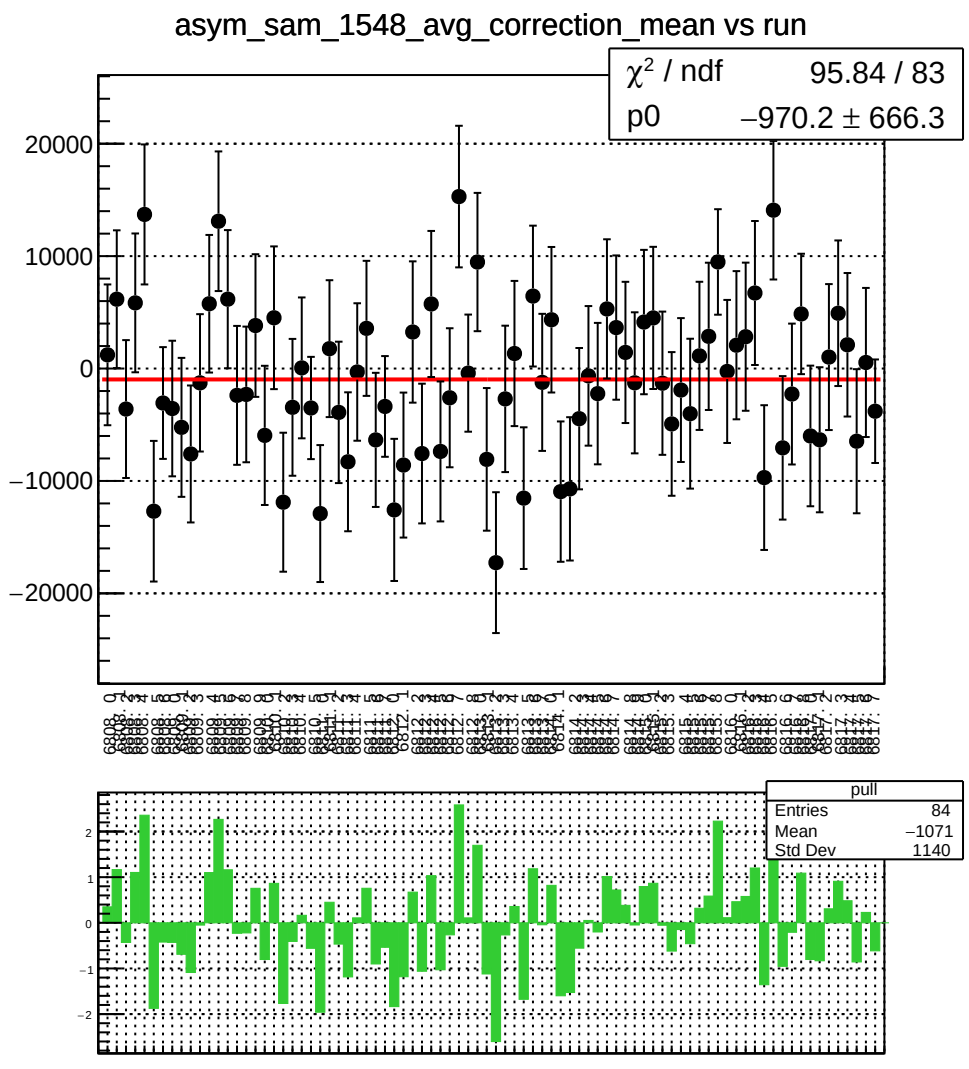

pull1D
Entries 84
Mean −0.0007825
Std Dev 0.9552
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

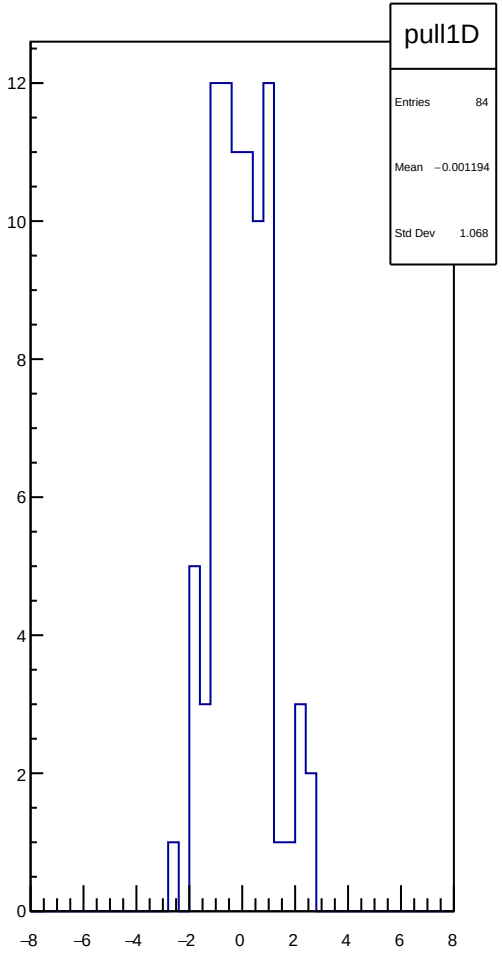

asym_sam_26_48_dd_rms vs run
χ² / ndf 1941 / 83
p0 426.2 ± 0.3365
470
460
450
440
430
420
410
400
390

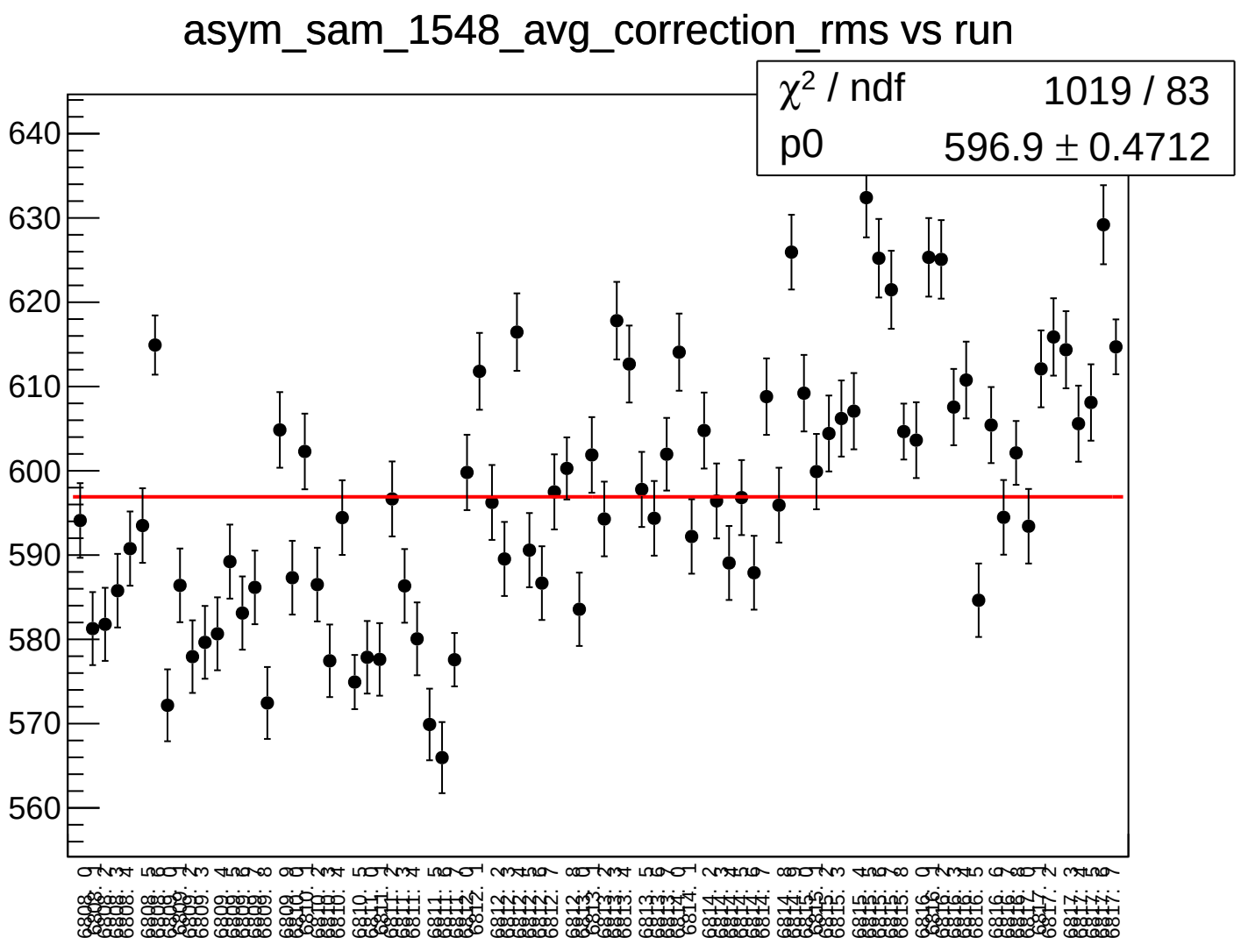

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 76.32 / 83
p0 −126.1 ± 121
pull
Entries 84
Mean −568.7
Std Dev 613.6

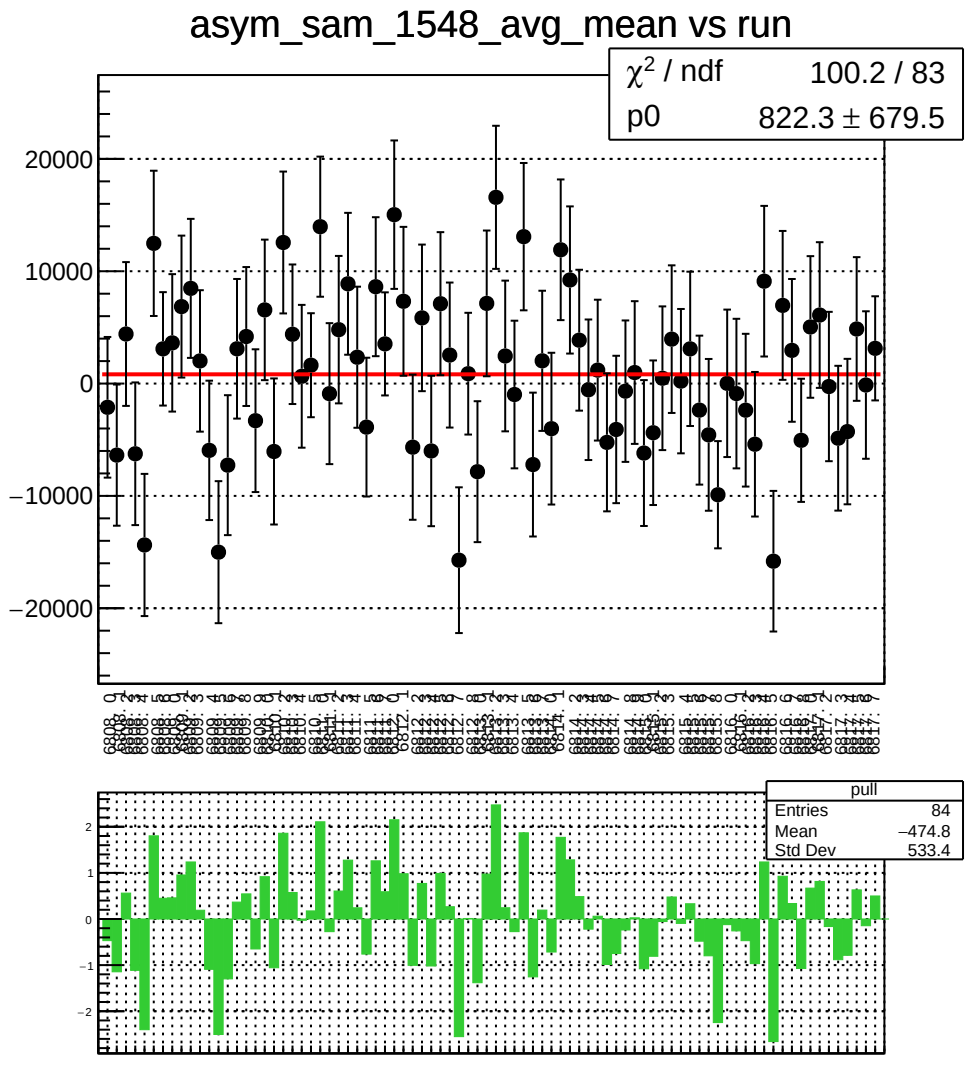

pull1D
Entries 84
Mean 0.008454
Std Dev 0.9531

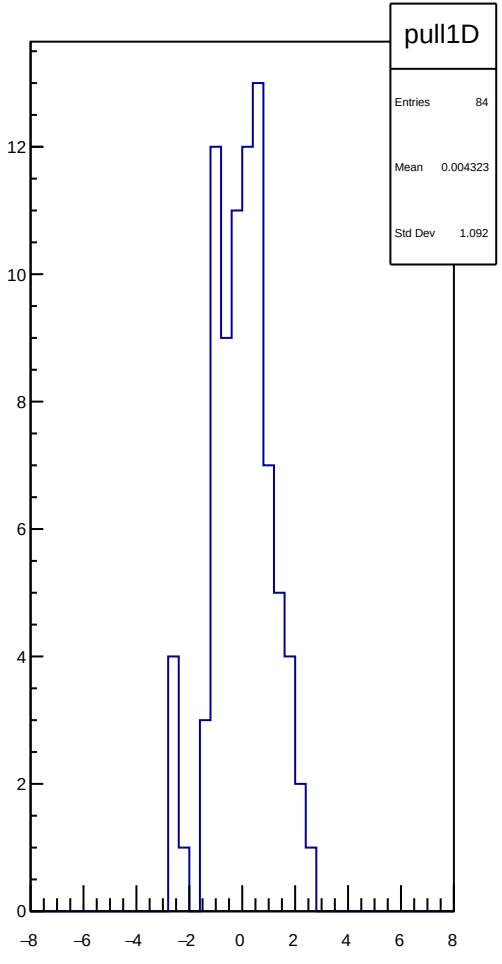

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 891.6 / 83
p0 108.4 ± 0.08553
118
116
114
112
110
108
106
104
102
100

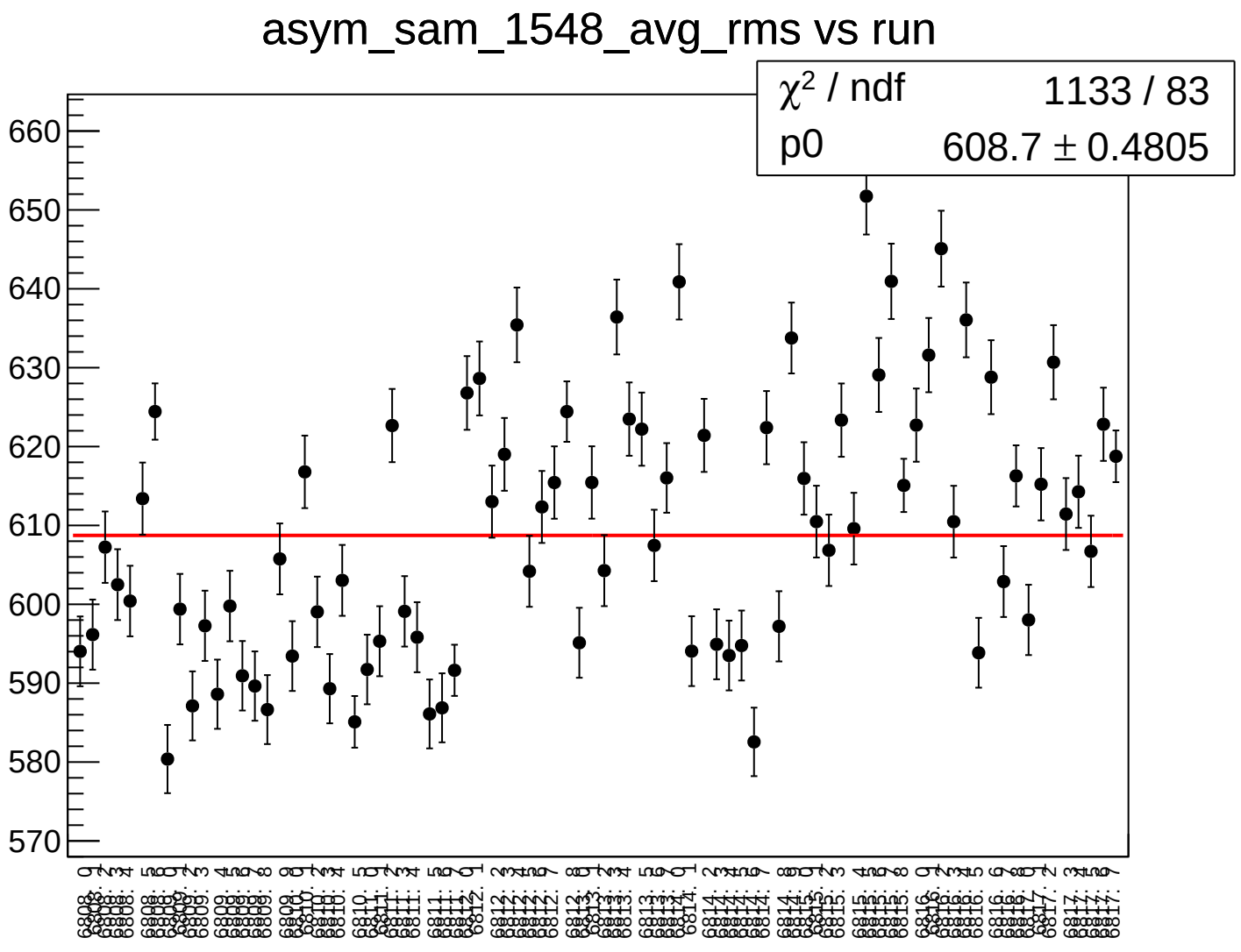

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 95.84 / 83
p0 −970.2 ± 666.3
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −1071
Std Dev 1140
2
1
0
−1
−2

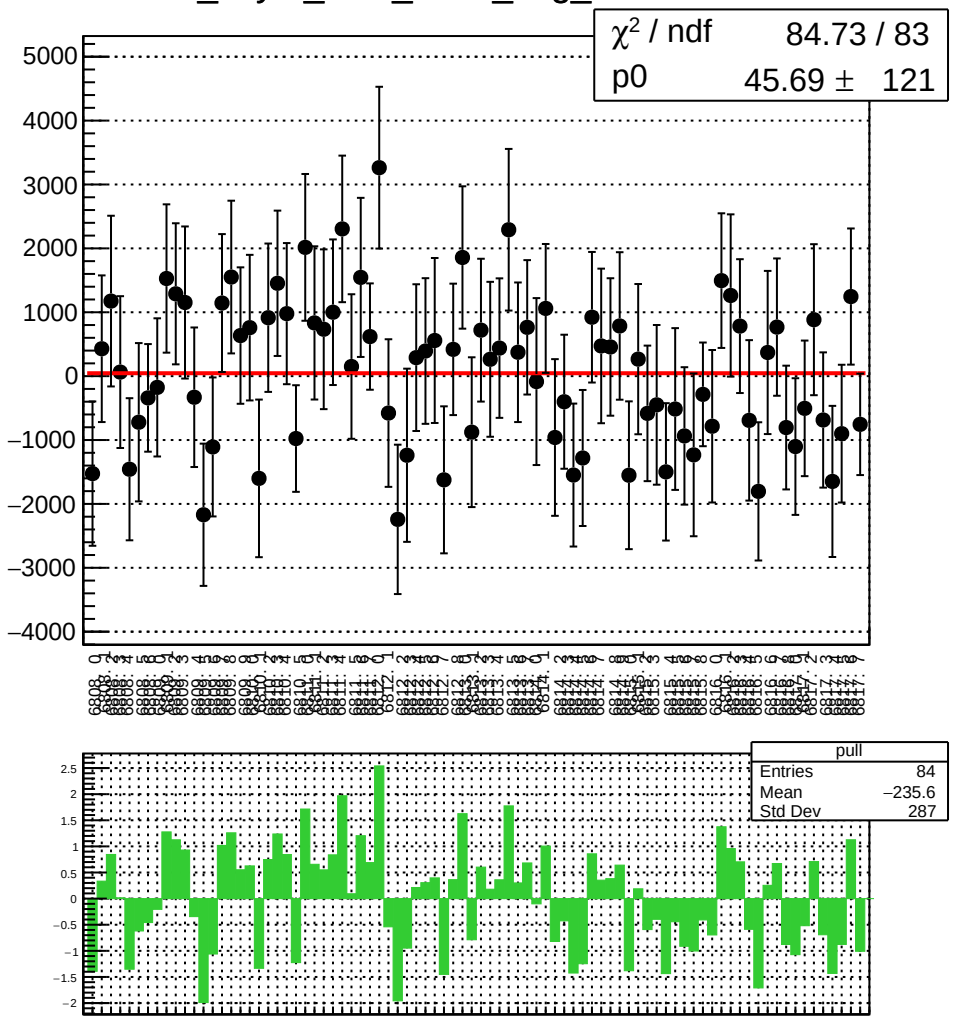

pull1D
Entries 84
Mean −0.001194
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

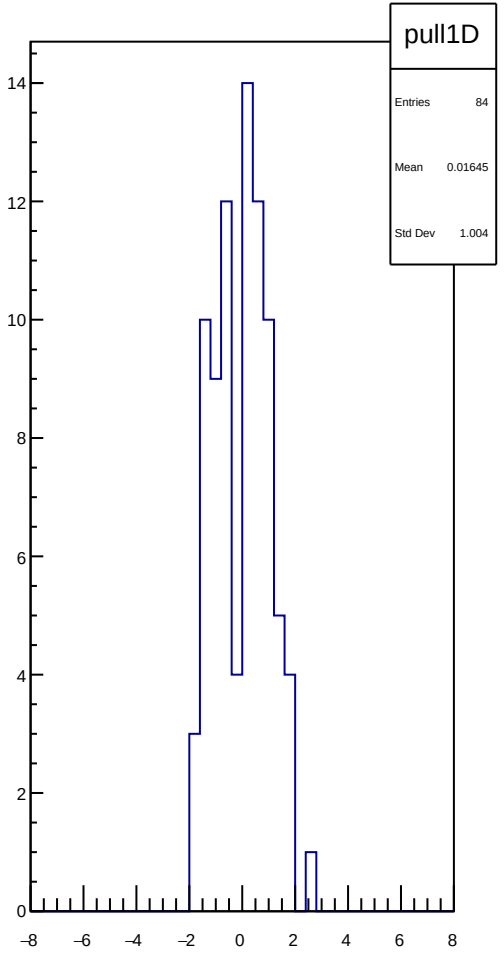

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 1019 / 83
p0 596.9 ± 0.4712
640
630
620
610
600
590
580
570
560

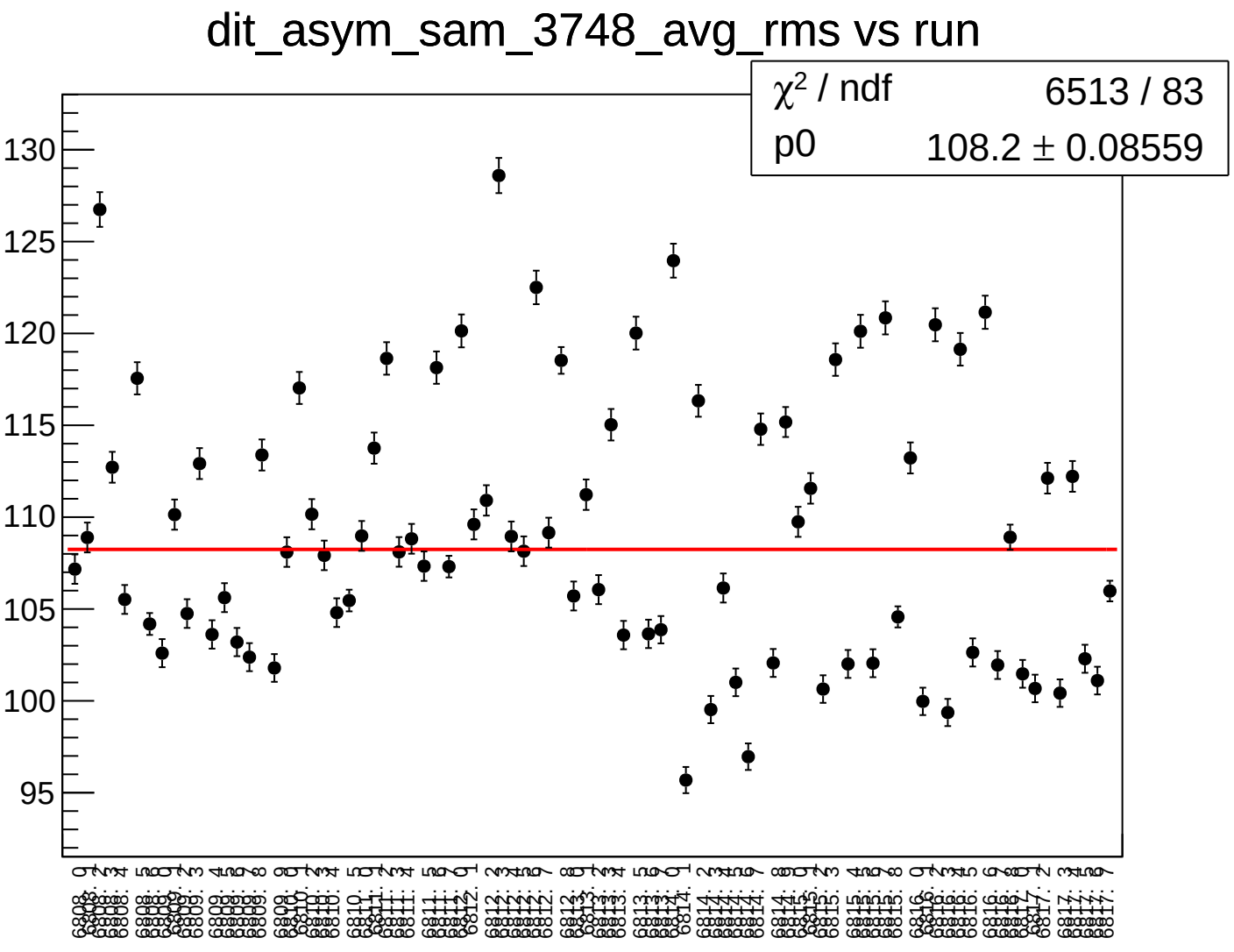

asym_sam_1548_avg_mean vs run
χ² / ndf 100.2 / 83
p0 822.3 ± 679.5
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −474.8
Std Dev 533.4
2
1
0
−1
−2

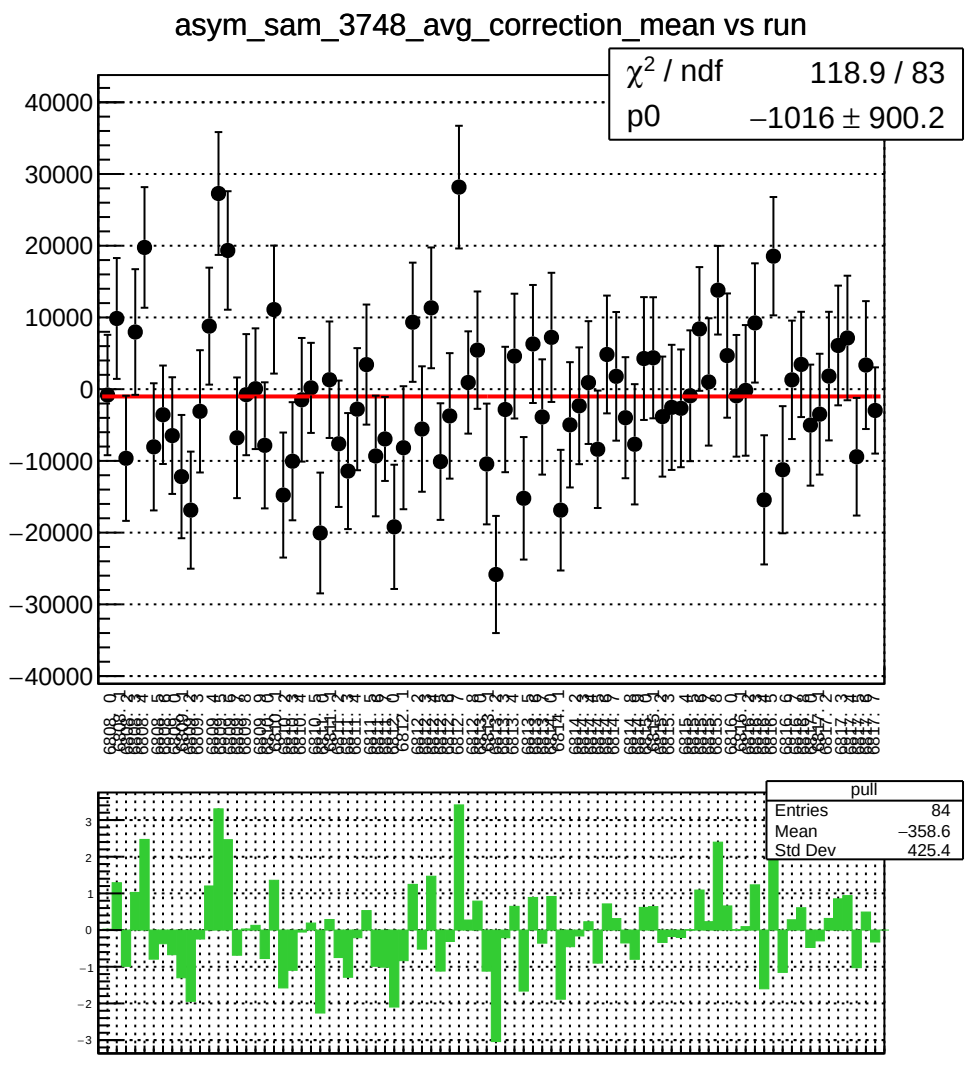

pull1D
Entries 84
Mean 0.004323
Std Dev 1.092
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

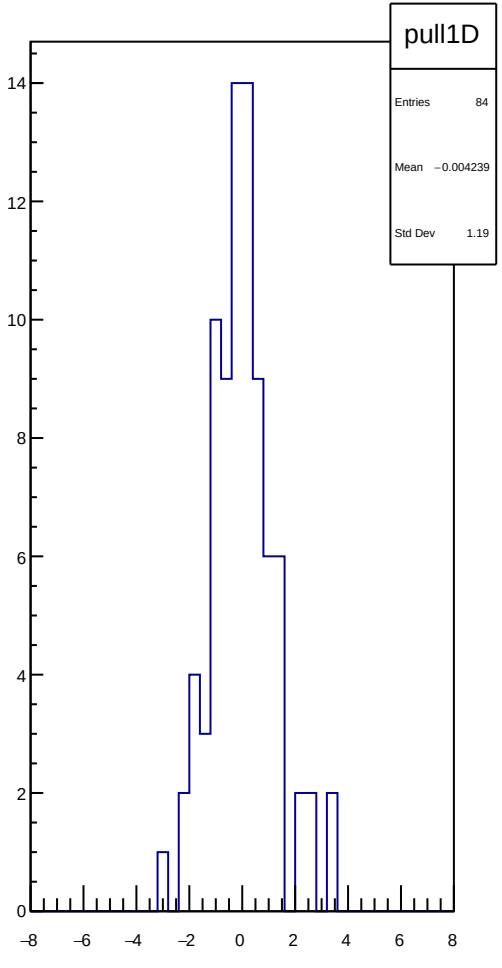

asym_sam_1548_avg_rms vs run
χ² / ndf 1133 / 83
p0 608.7 ± 0.4805
660
650
640
630
620
610
600
590
580
570

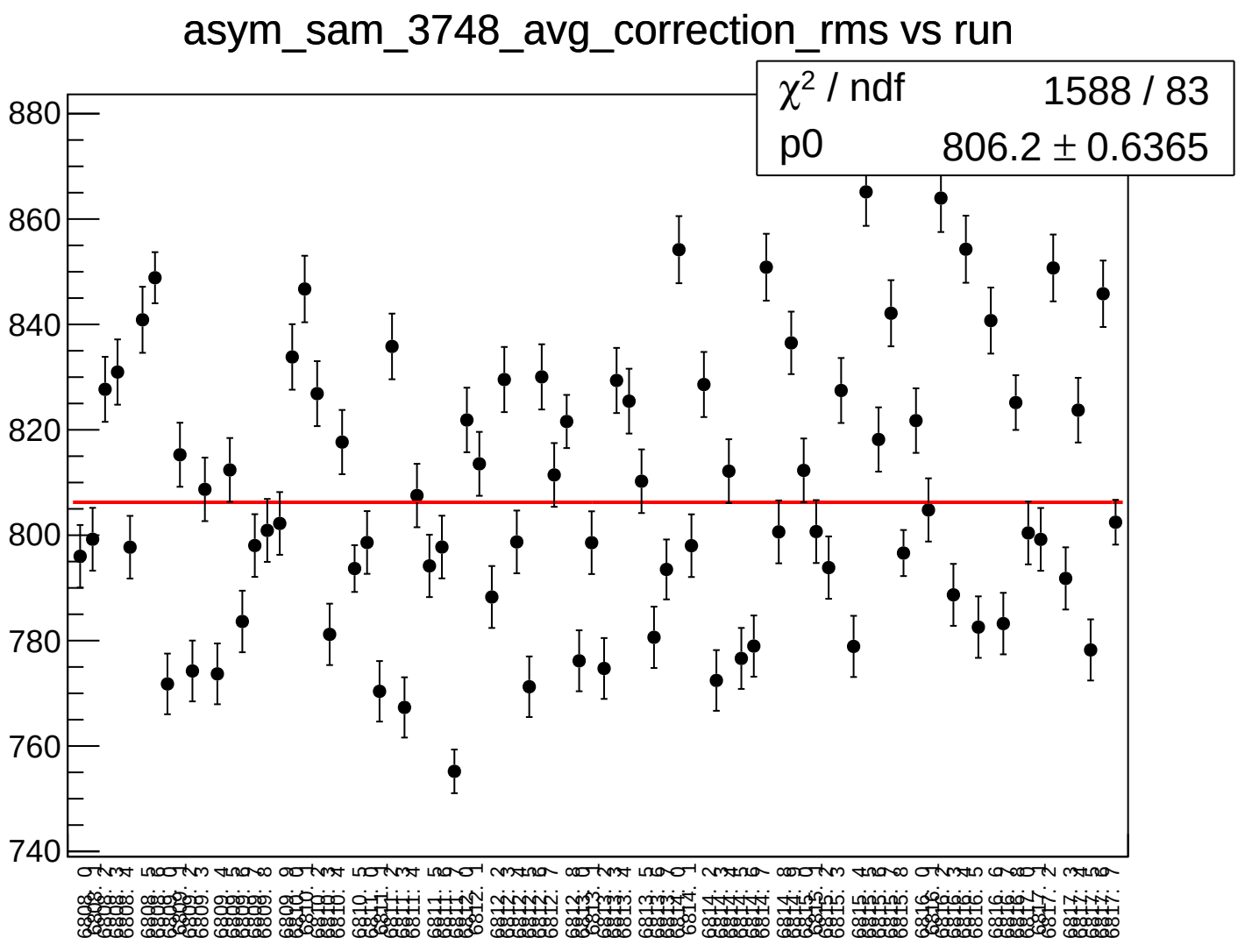

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 84.73 / 83
p0 45.69 ± 121
pull
Entries 84
Mean −235.6
Std Dev 287

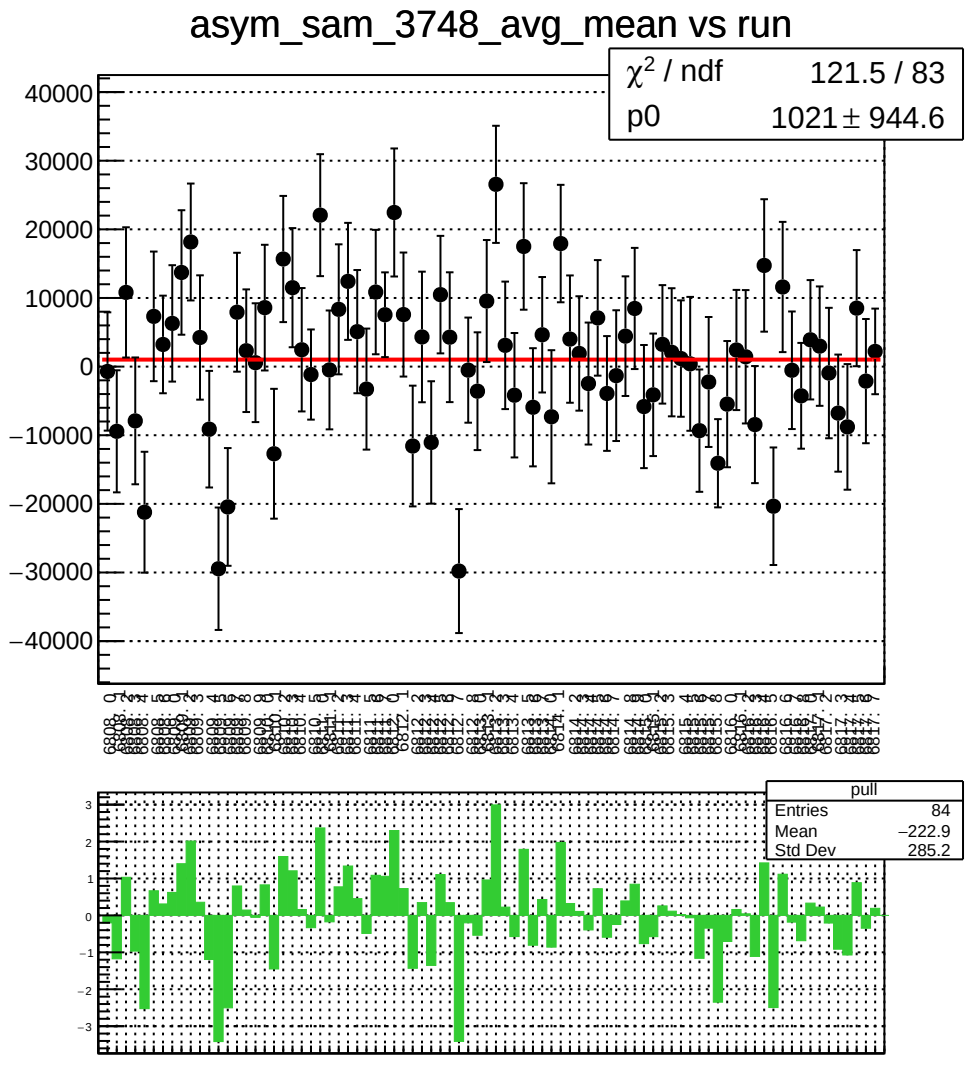

pull1D
Entries 84
Mean 0.01645
Std Dev 1.004

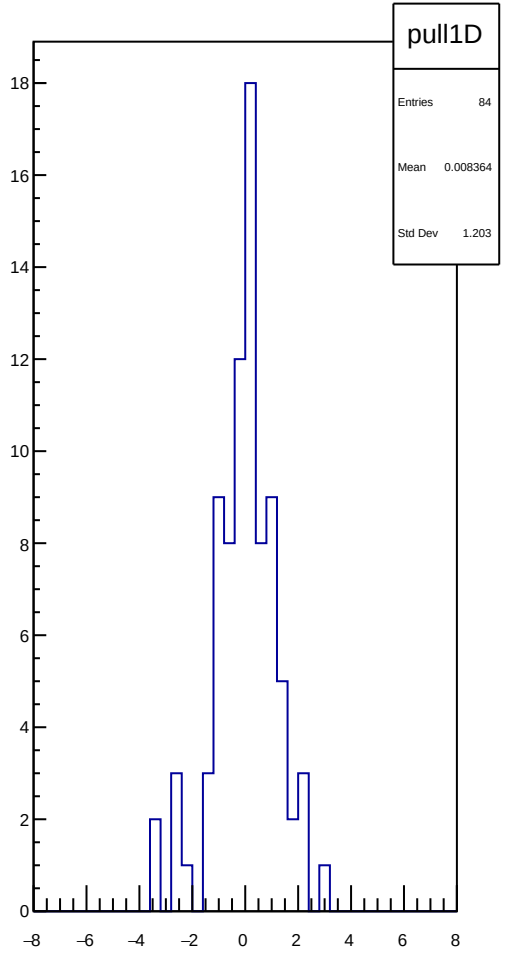

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 6513 / 83
p0 108.2 ± 0.08559
130
125
120
115
110
105
100
95

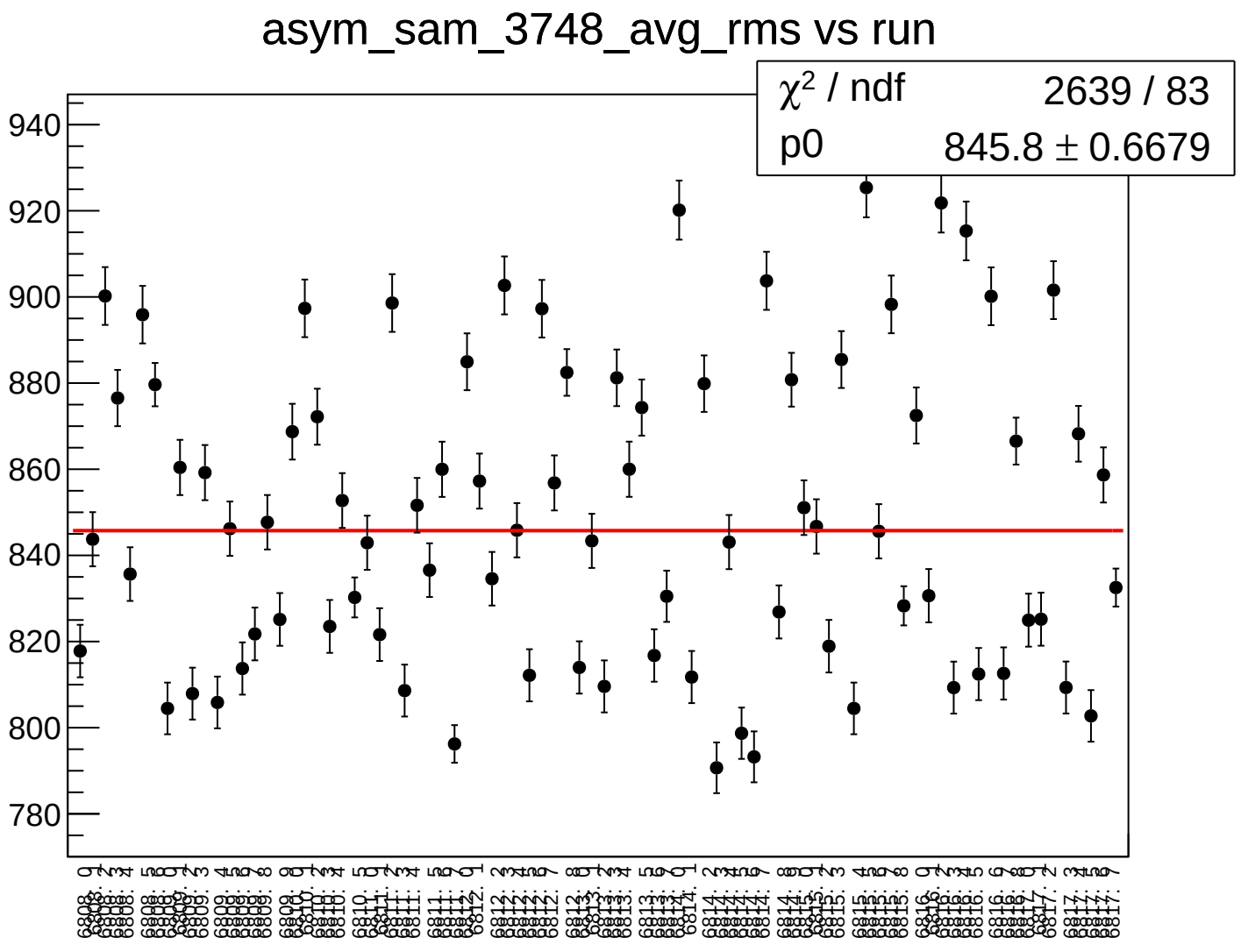

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 118.9 / 83
p0 −1016 ± 900.2
pull
Entries 84
Mean −358.6
Std Dev 425.4

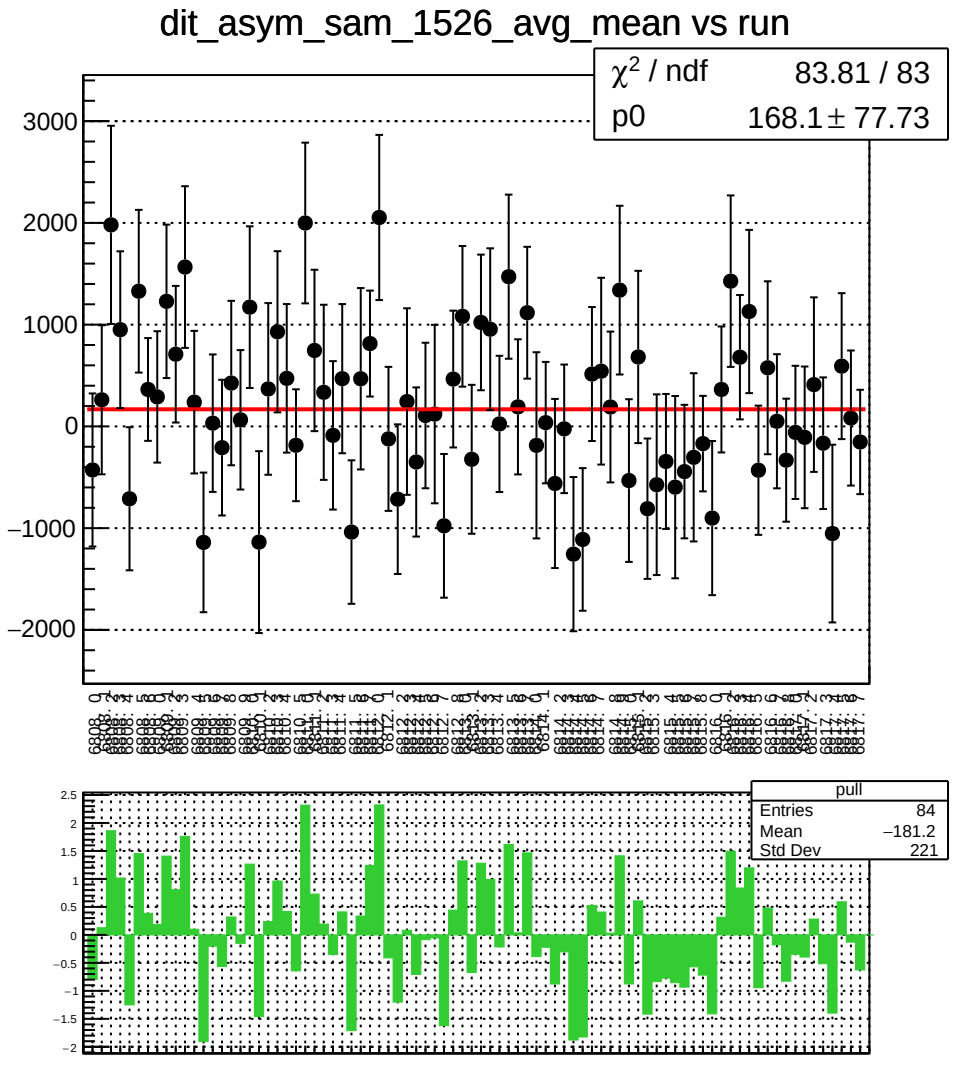

pull1D
Entries 84
Mean −0.004239
Std Dev 1.19

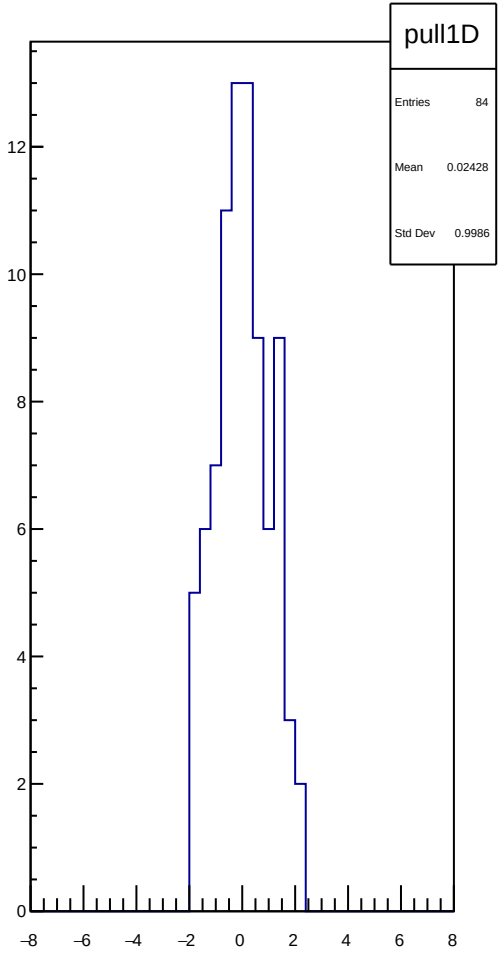

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 1588 / 83
p0 806.2 ± 0.6365
880
860
840
820
800
780
760
740

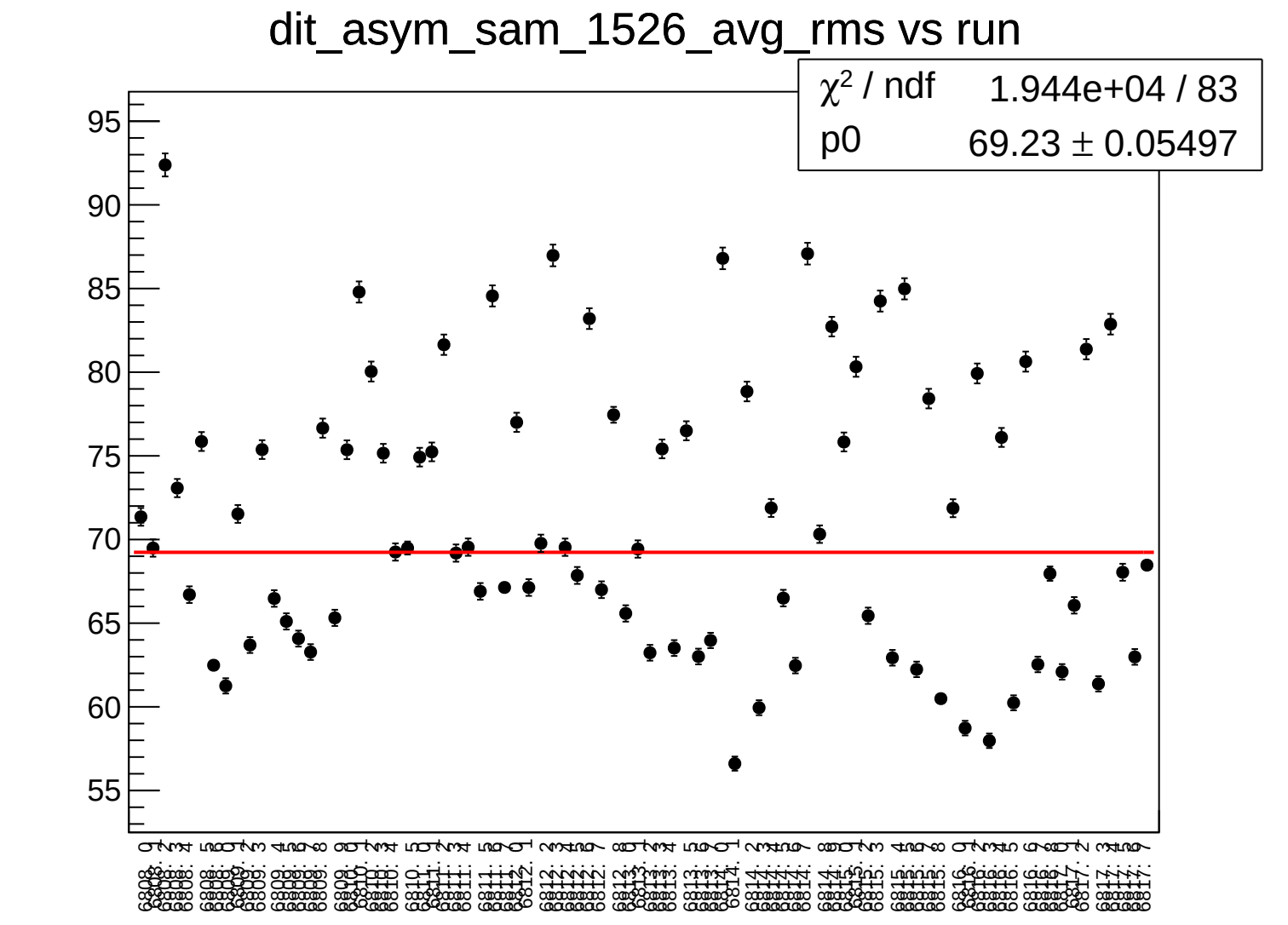

asym_sam_3748_avg_mean vs run
χ² / ndf 121.5 / 83
p0 1021 ± 944.6
pull
Entries 84
Mean −222.9
Std Dev 285.2

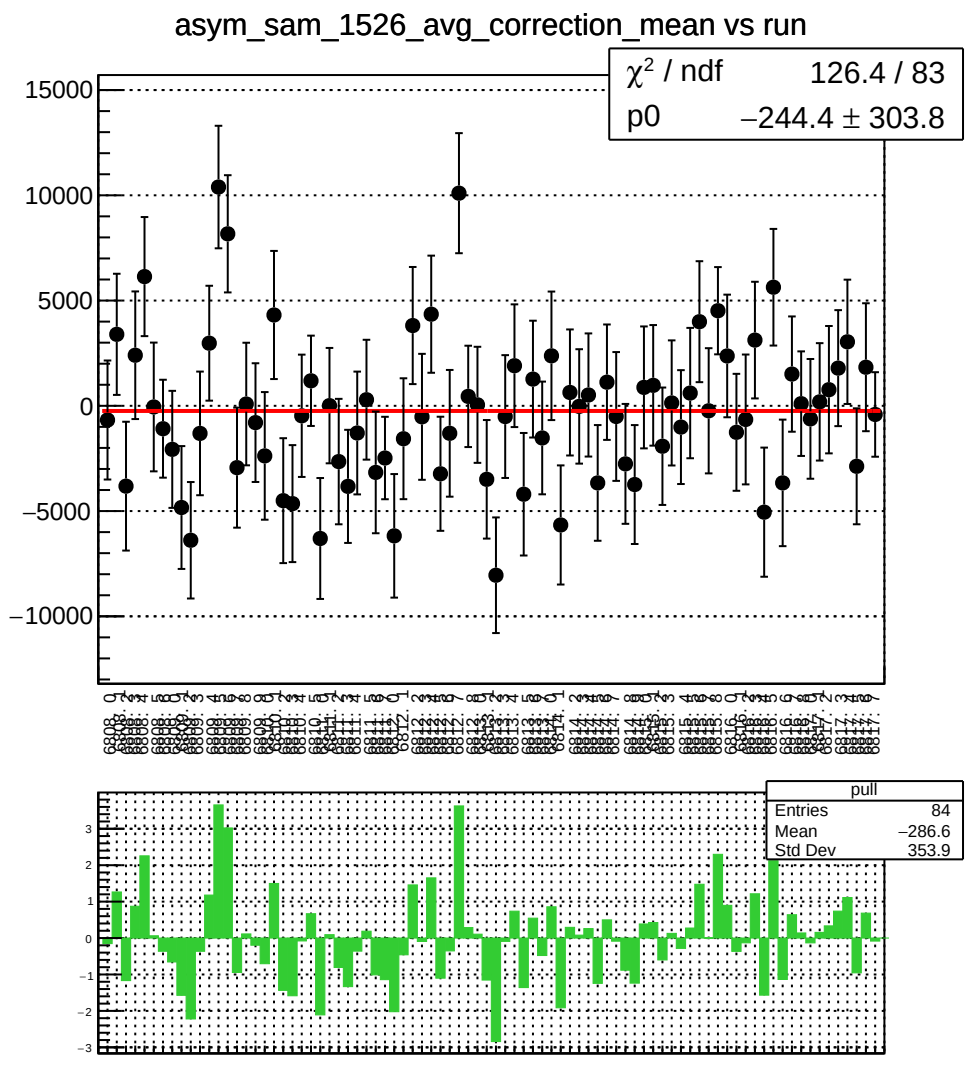

pull1D
Entries 84
Mean 0.008364
Std Dev 1.203

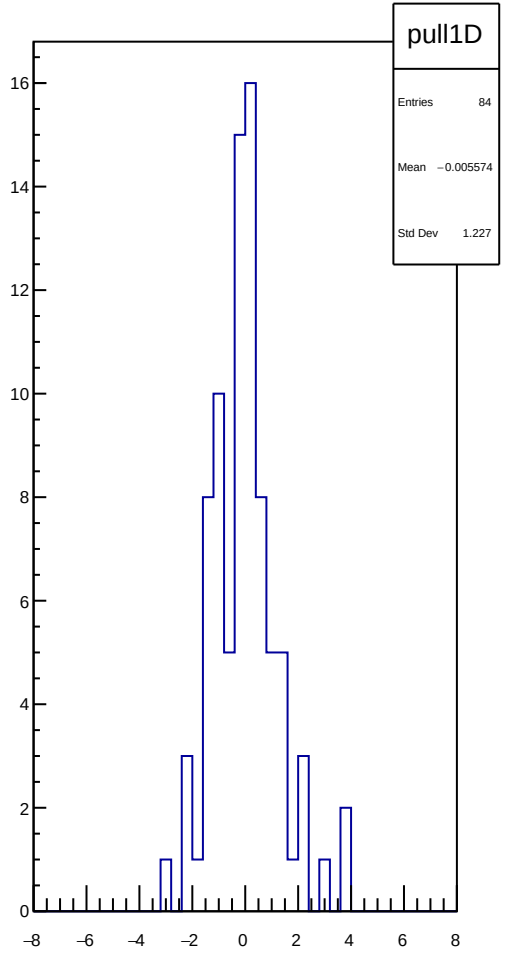

asym_sam_3748_avg_rms vs run
χ^2 / ndf 2639 / 83
p0 845.8 ± 0.6679
940
920
900
880
860
840
820
800
780

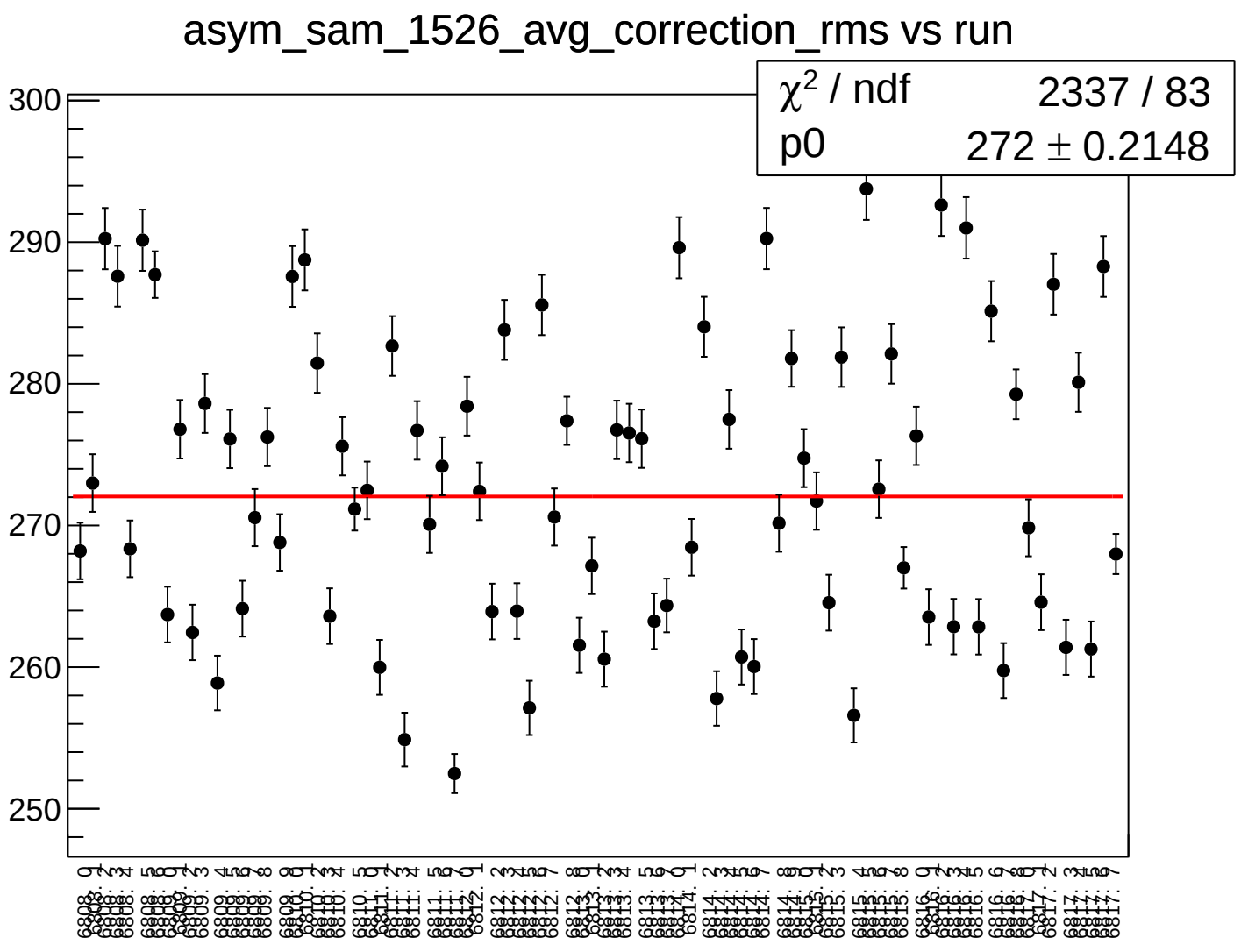

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 83.81 / 83
p0 168.1 ± 77.73
3000
2000
1000
0
−1000
−2000
pull
Entries 84
Mean −181.2
Std Dev 221
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

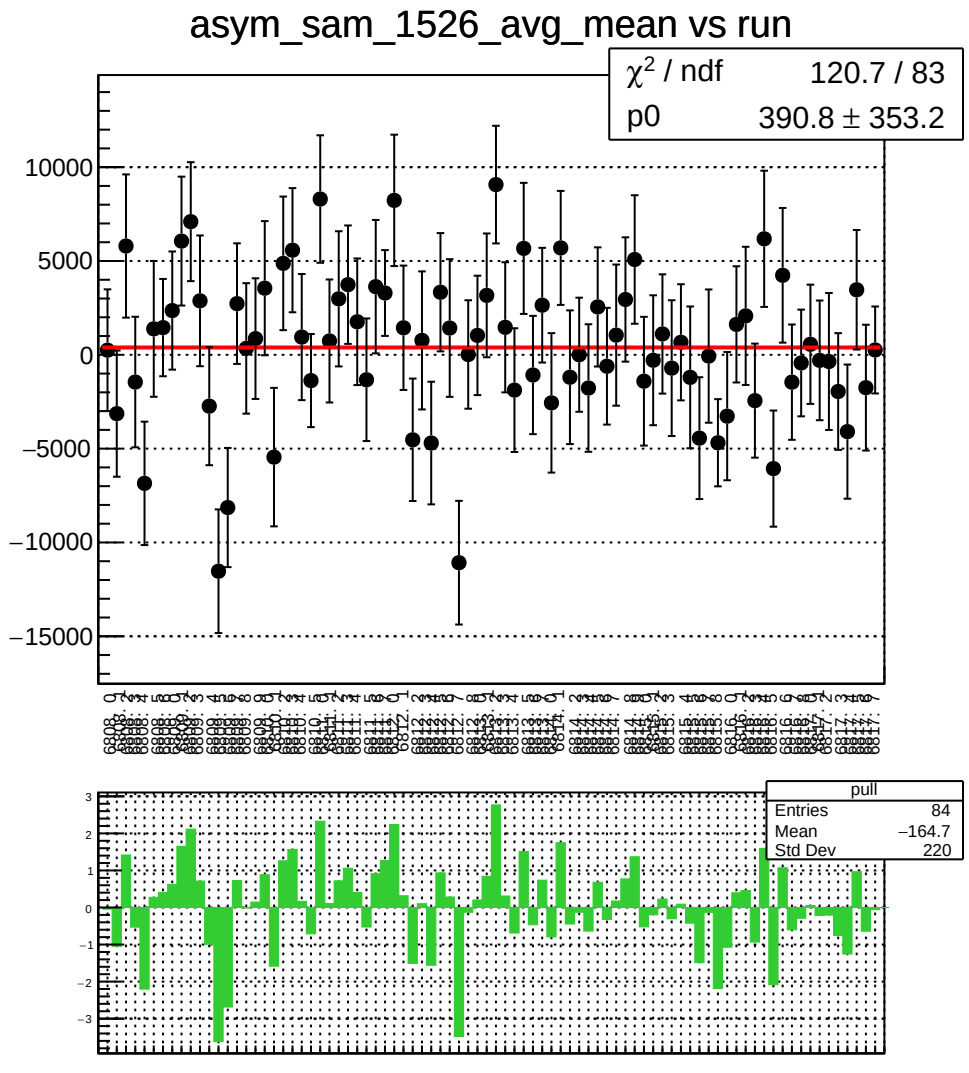

pull1D
Entries 84
Mean 0.02428
Std Dev 0.9986
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

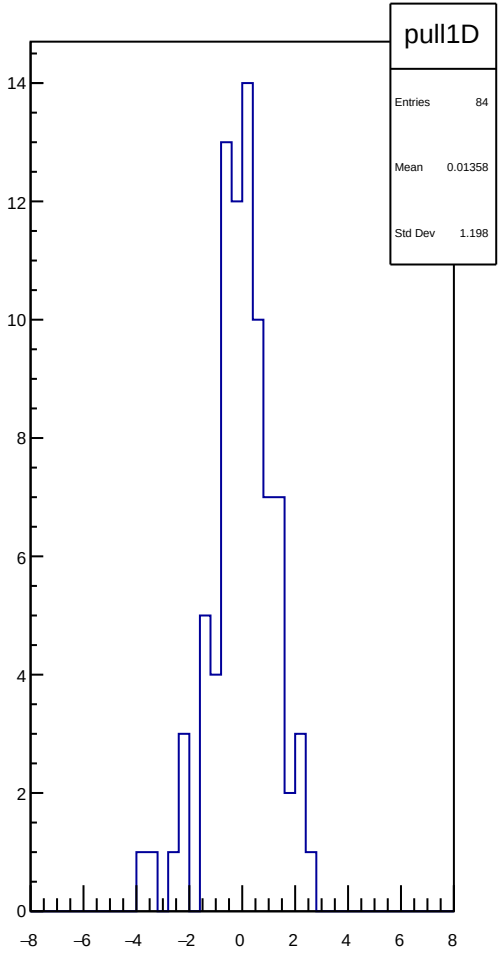

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.944e+04 / 83
p0 69.23 ± 0.05497
95
90
85
80
75
70
65
60
55

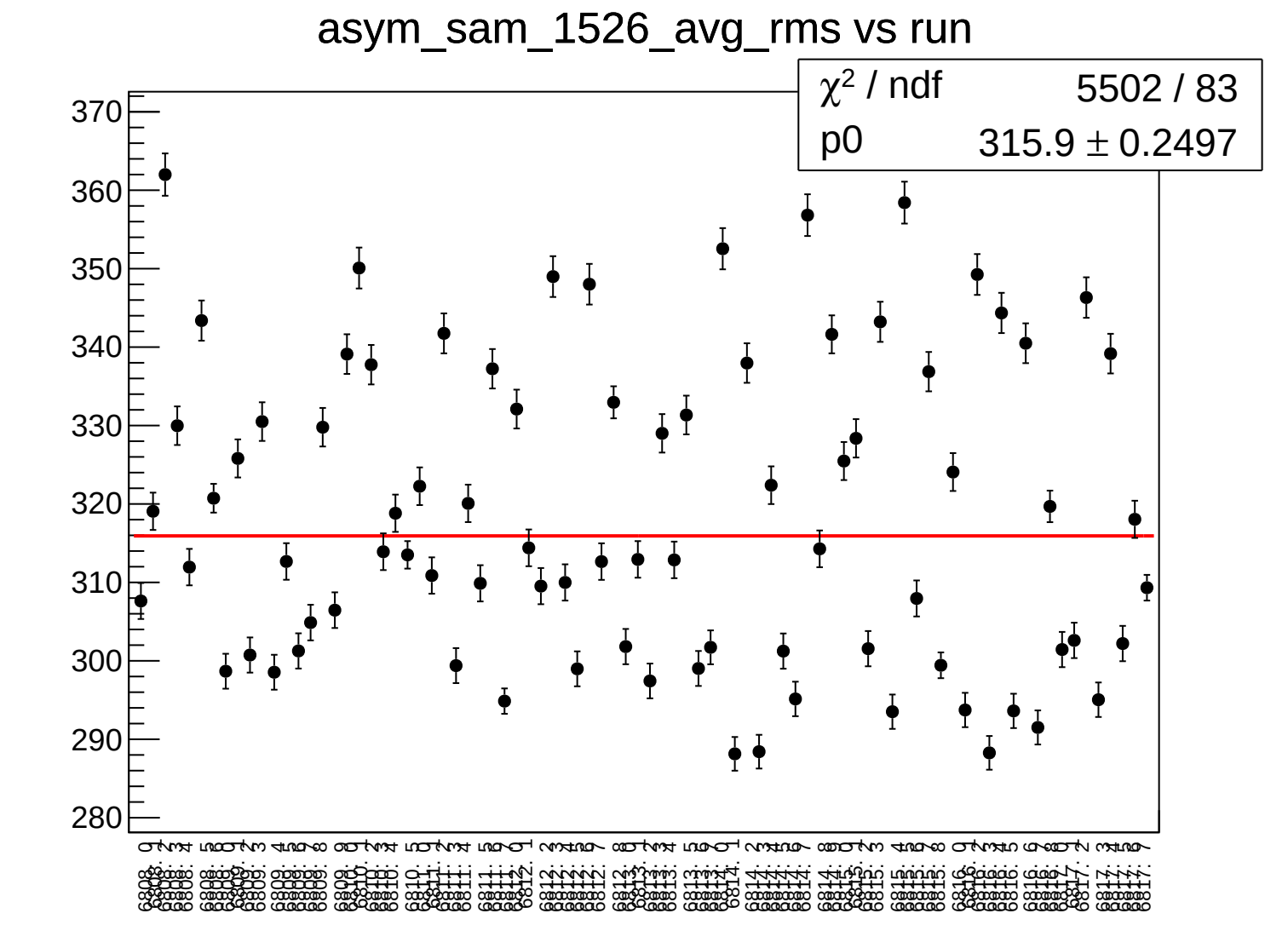

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 126.4 / 83
p0 −244.4 ± 303.8
15000
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −286.6
Std Dev 353.9
3
2
1
0
−1
−2
−3

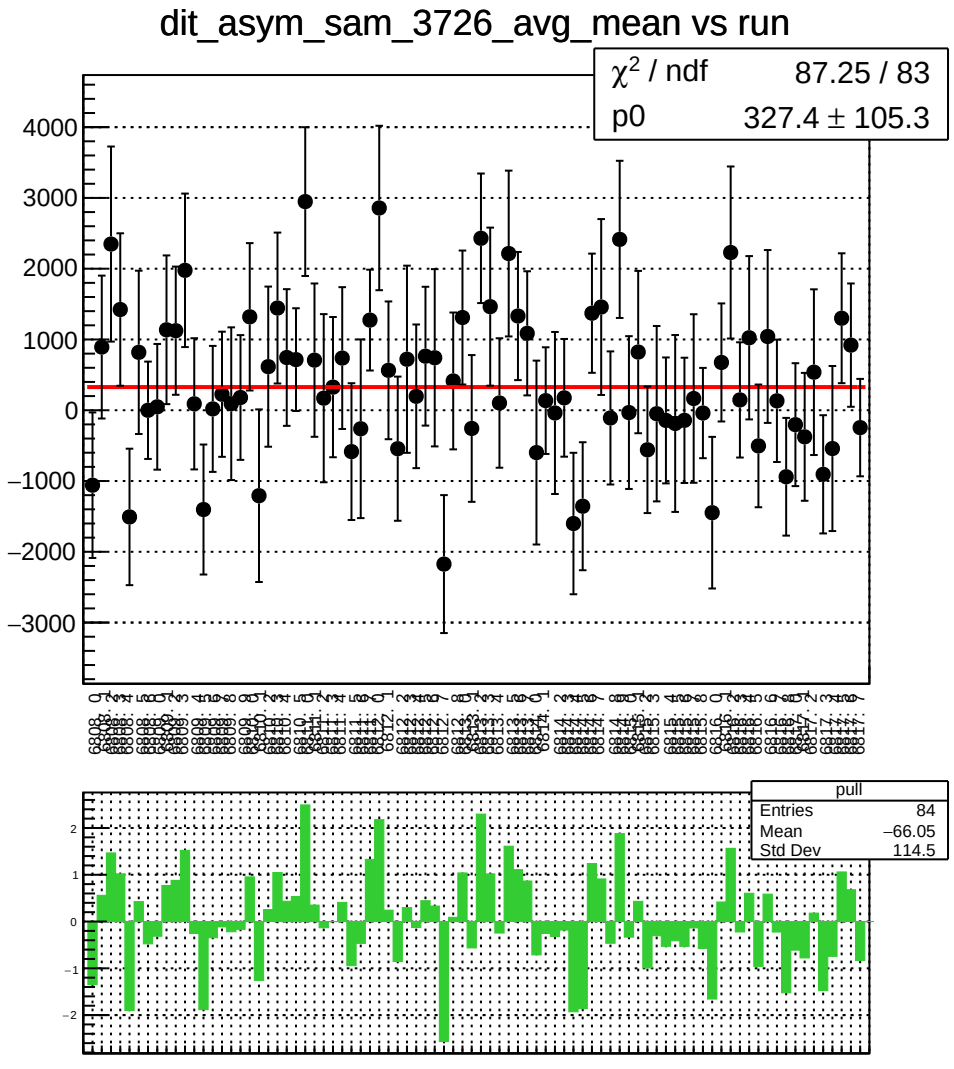

pull1D
Entries 84
Mean −0.005574
Std Dev 1.227
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

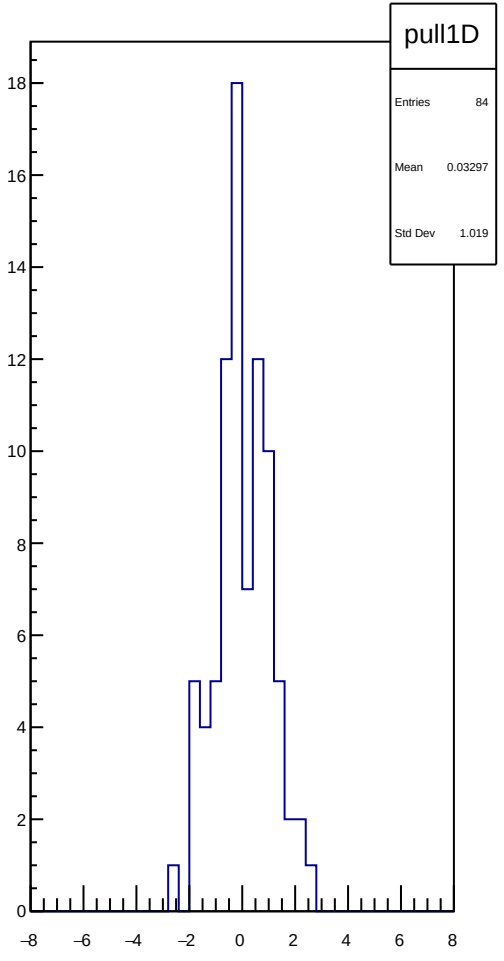

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 2337 / 83
p0 272 ± 0.2148
300
290
280
270
260
250

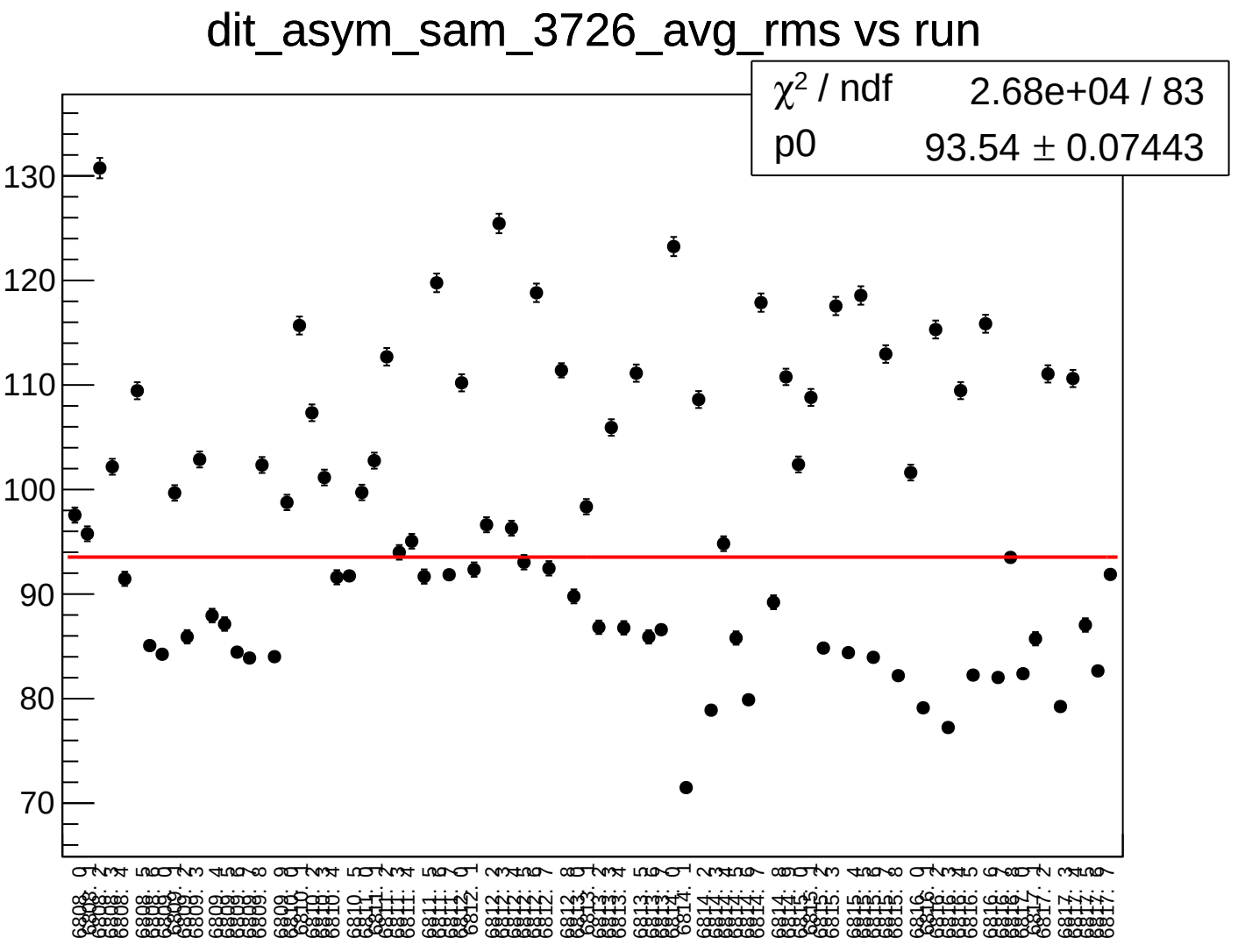

asym_sam_1526_avg_mean vs run
χ² / ndf 120.7 / 83
p0 390.8 ± 353.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −164.7
Std Dev 220
3
2
1
0
−1
−2
−3

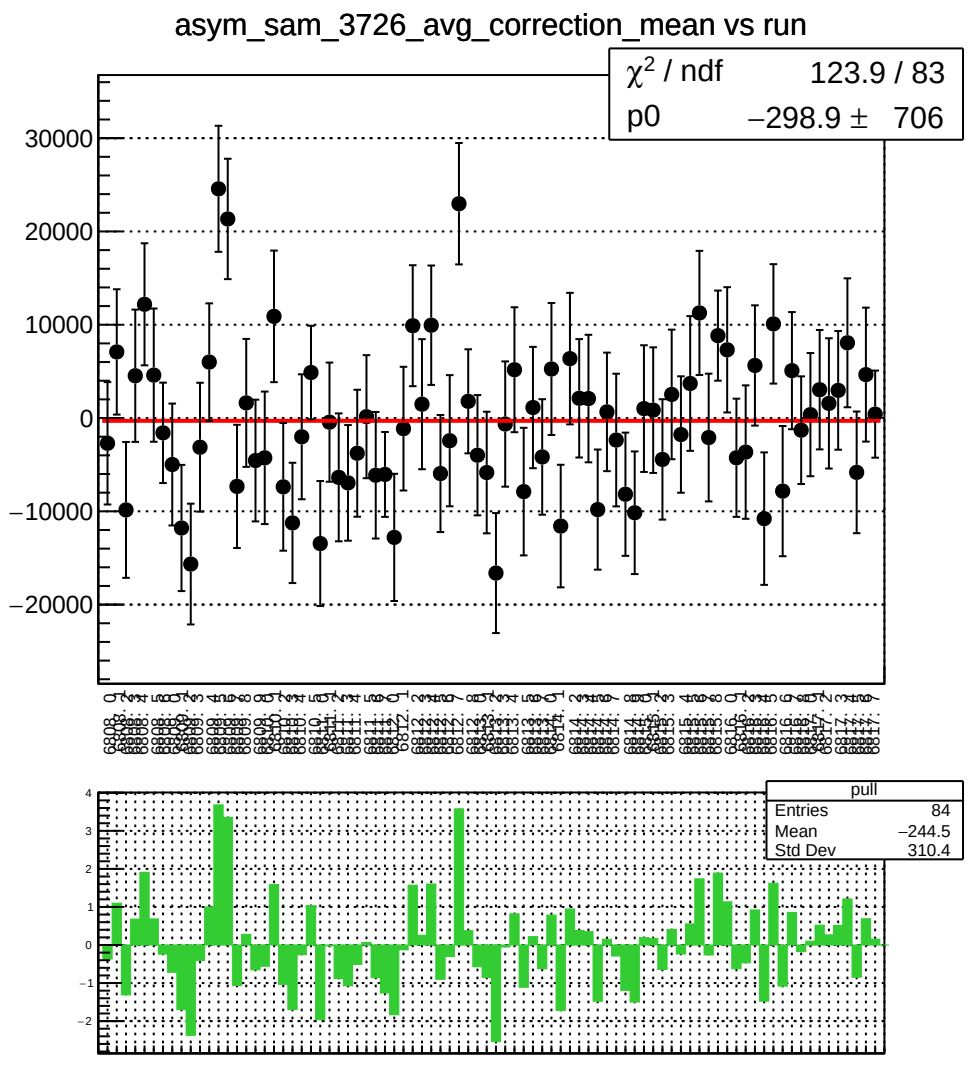

pull1D
Entries 84
Mean 0.01358
Std Dev 1.198
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

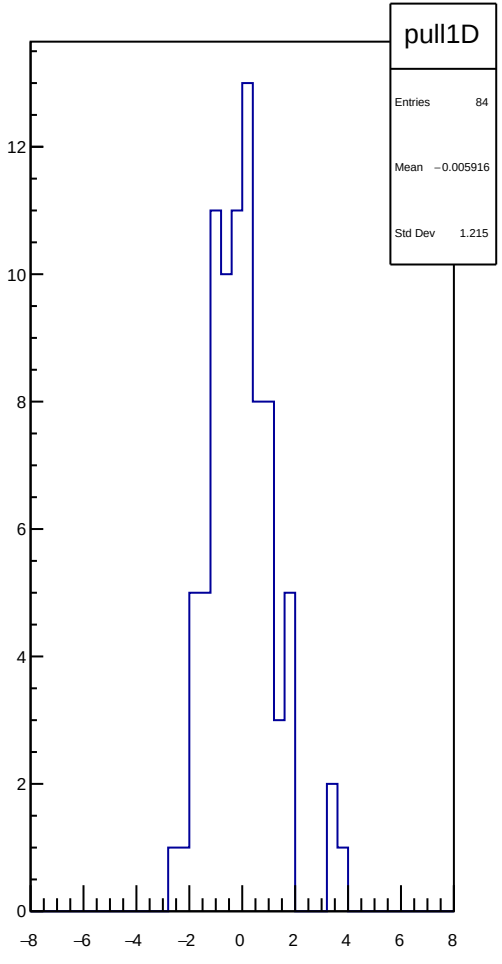

asym_sam_1526_avg_rms vs run
χ^2 / ndf 5502 / 83
p0 315.9 ± 0.2497
370
360
350
340
330
320
310
300
290
280

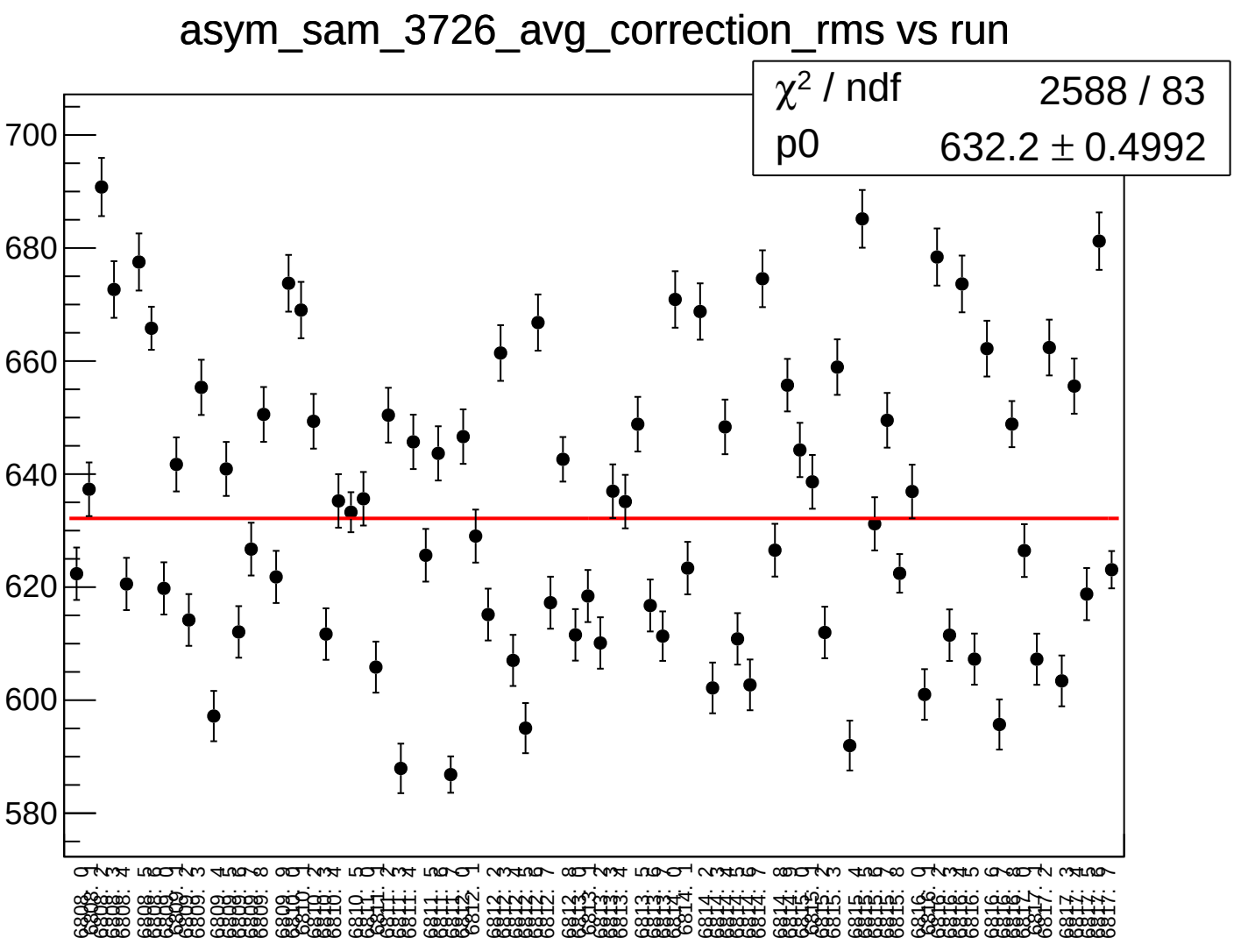

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 87.25 / 83
p0 327.4 ± 105.3
pull
Entries 84
Mean −66.05
Std Dev 114.5

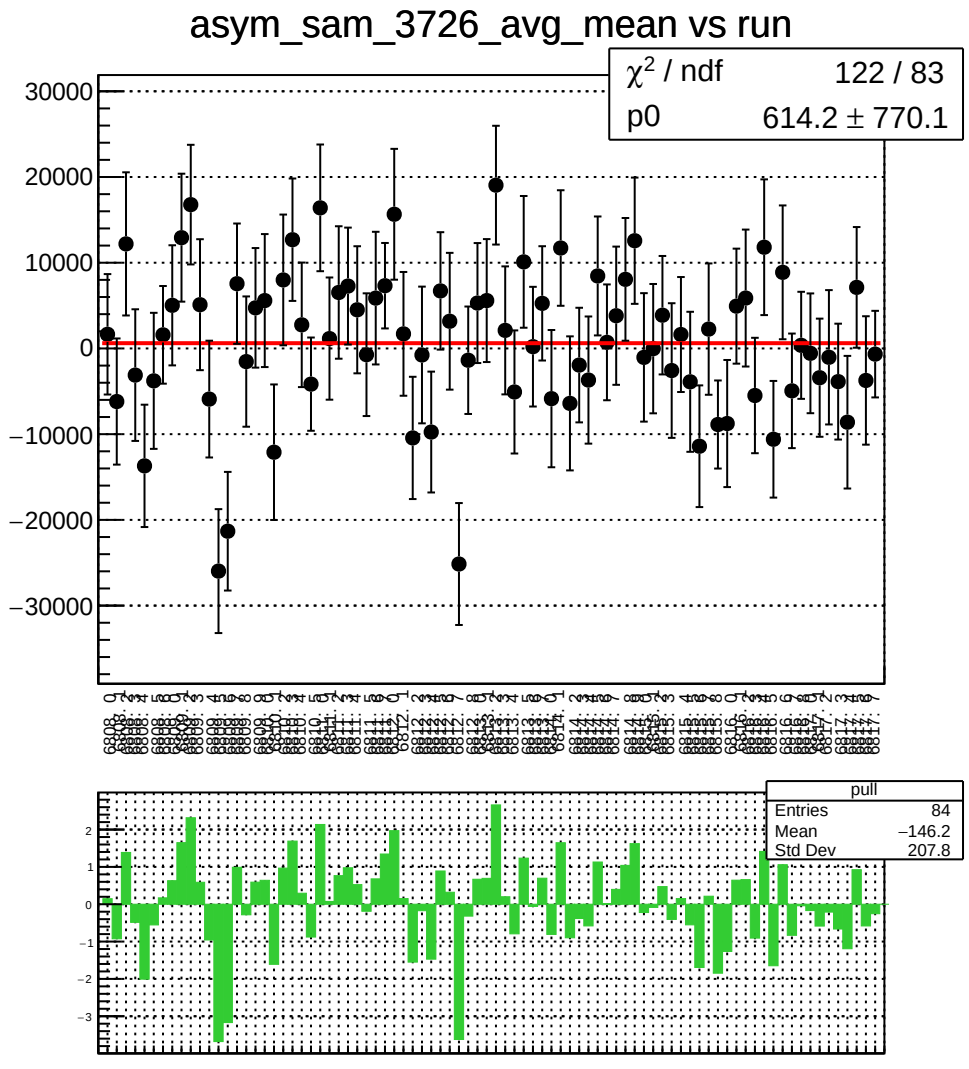

pull1D
Entries 84
Mean 0.03297
Std Dev 1.019

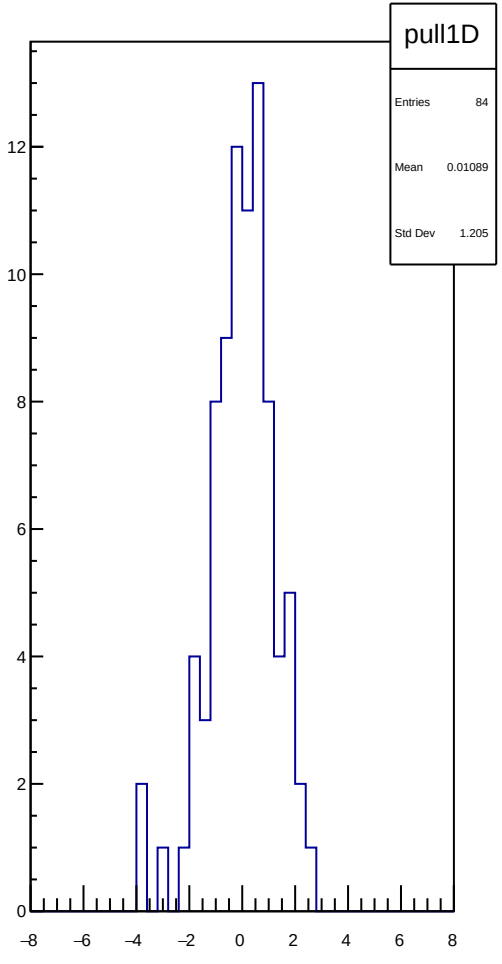

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.68e+04 / 83
p0 93.54 ± 0.07443
130
120
110
100
90
80
70

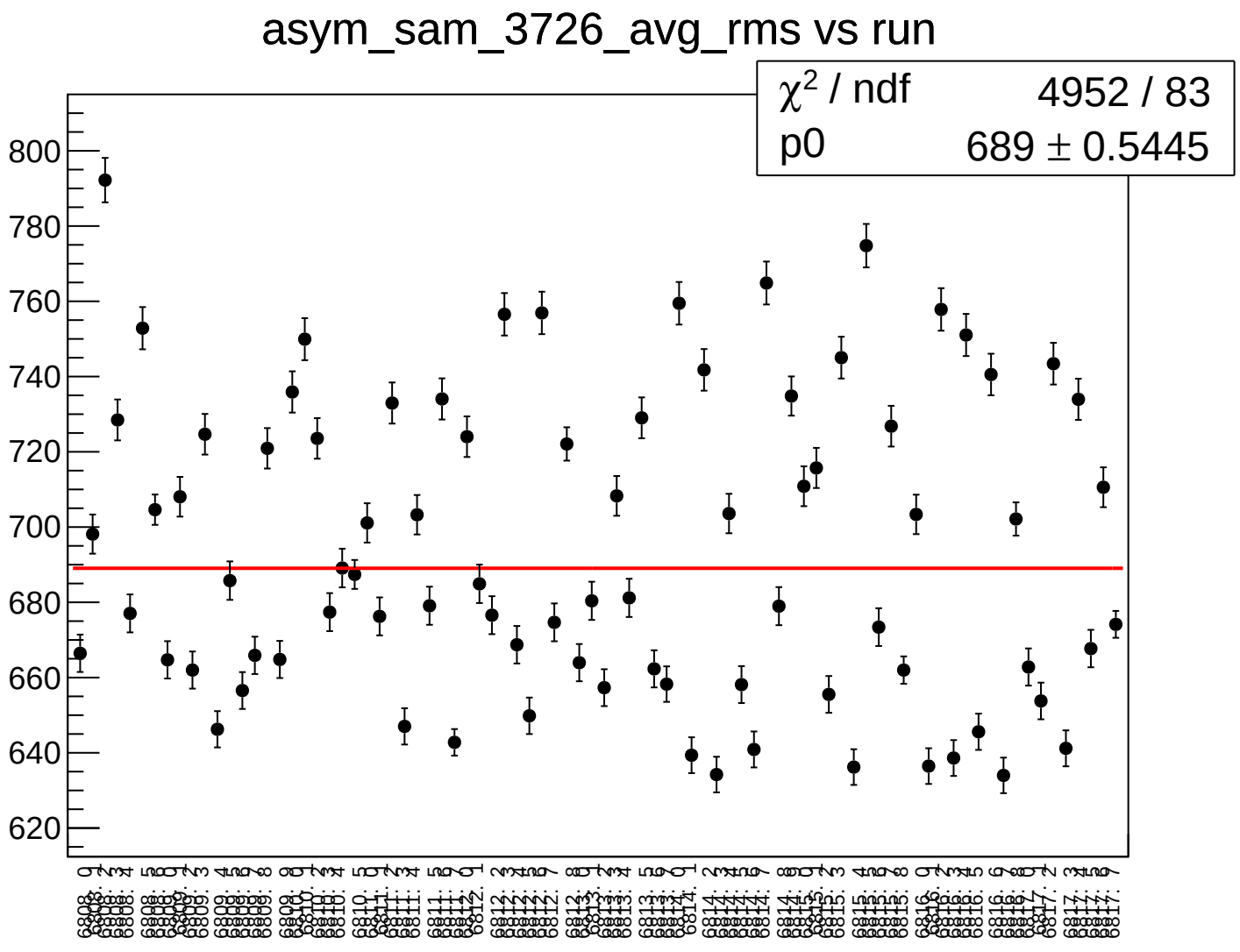

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 123.9 / 83
p0 −298.9 ± 706
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −244.5
Std Dev 310.4
4
3
2
1
0
−1
−2

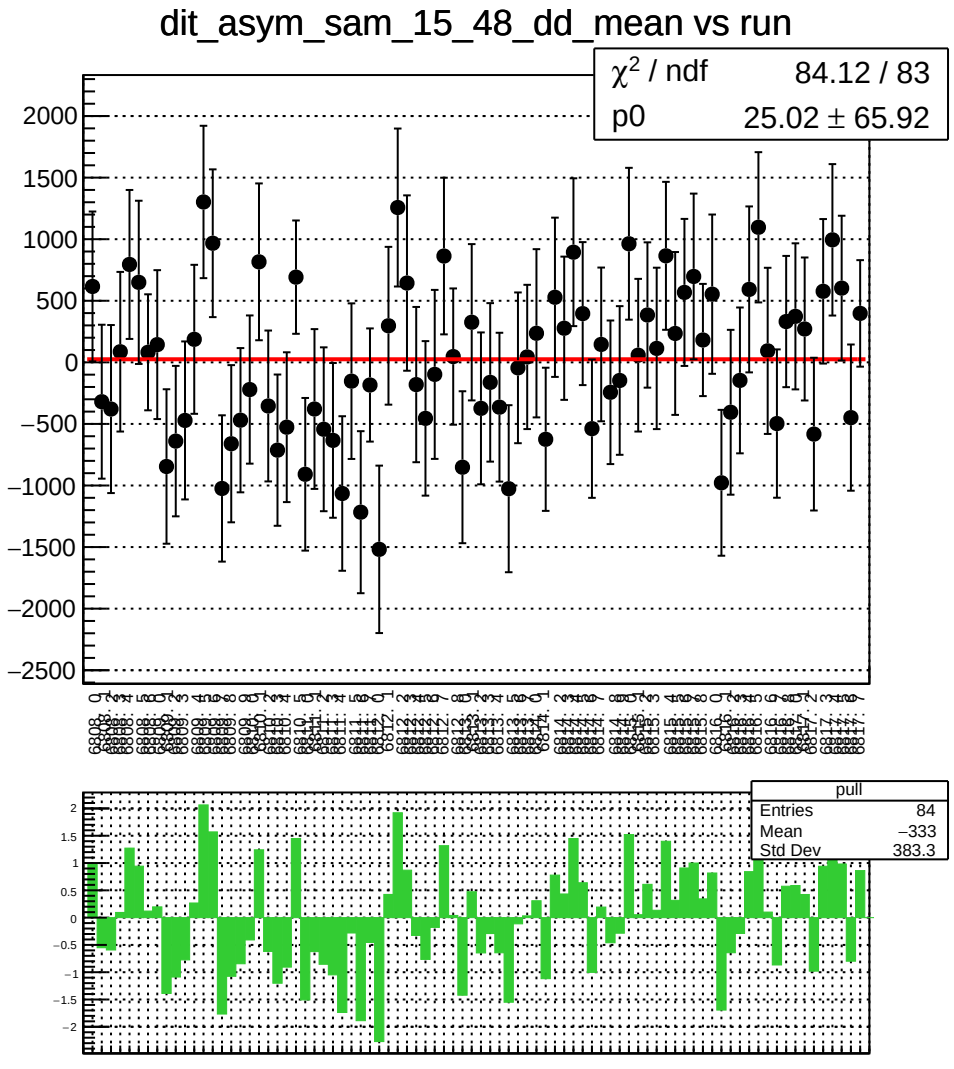

pull1D
Entries 84
Mean −0.005916
Std Dev 1.215
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

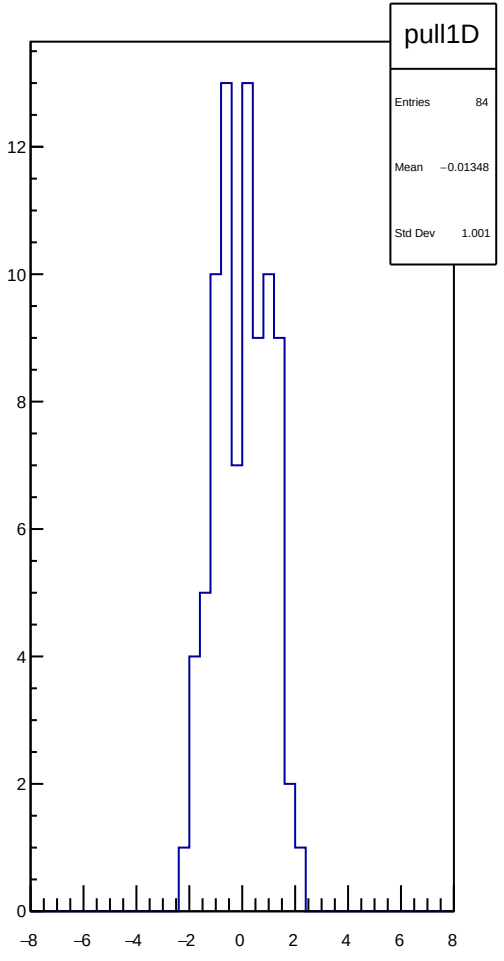

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 2588 / 83
p0 632.2 ± 0.4992
700
680
660
640
620
600
580

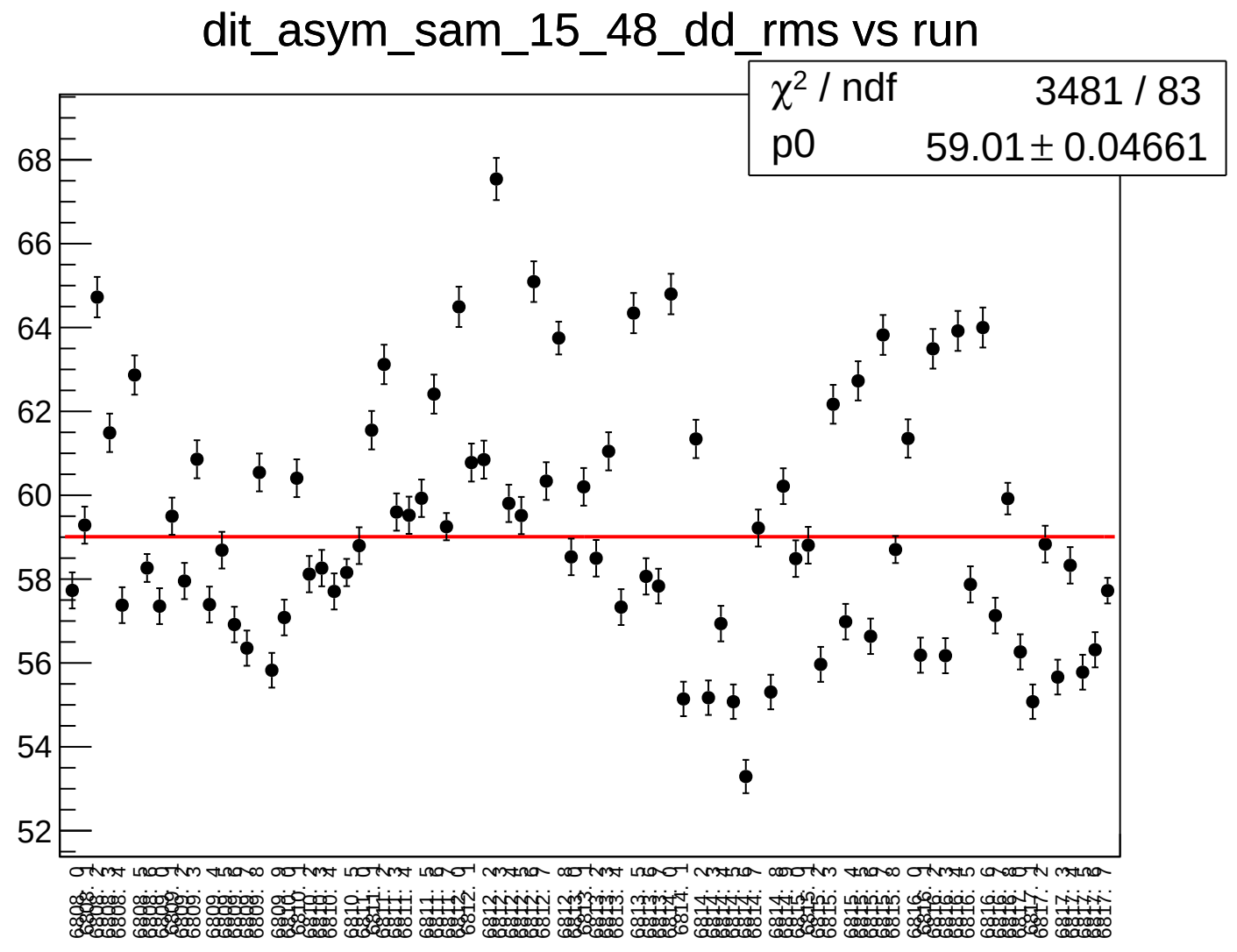

asym_sam_3726_avg_mean vs run
χ² / ndf 122 / 83
p0 614.2 ± 770.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −146.2
Std Dev 207.8
2
1
0
−1
−2
−3

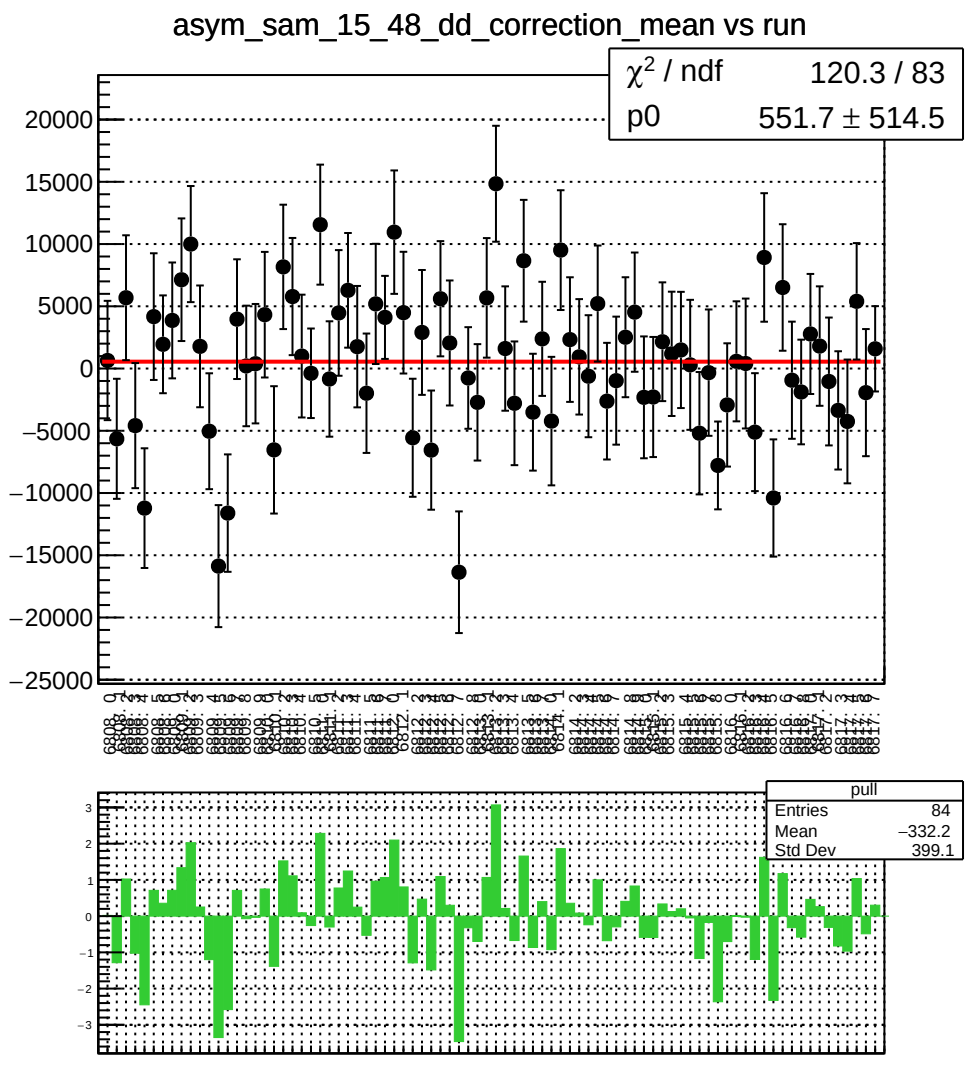

pull1D
Entries 84
Mean 0.01089
Std Dev 1.205
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

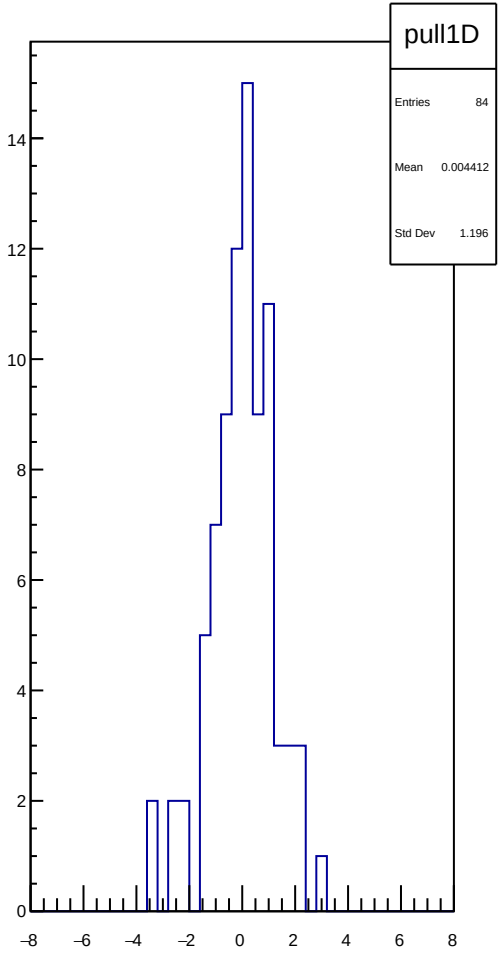

asym_sam_3726_avg_rms vs run
χ^2 / ndf 4952 / 83
p0 689 ± 0.5445
800
780
760
740
720
700
680
660
640
620

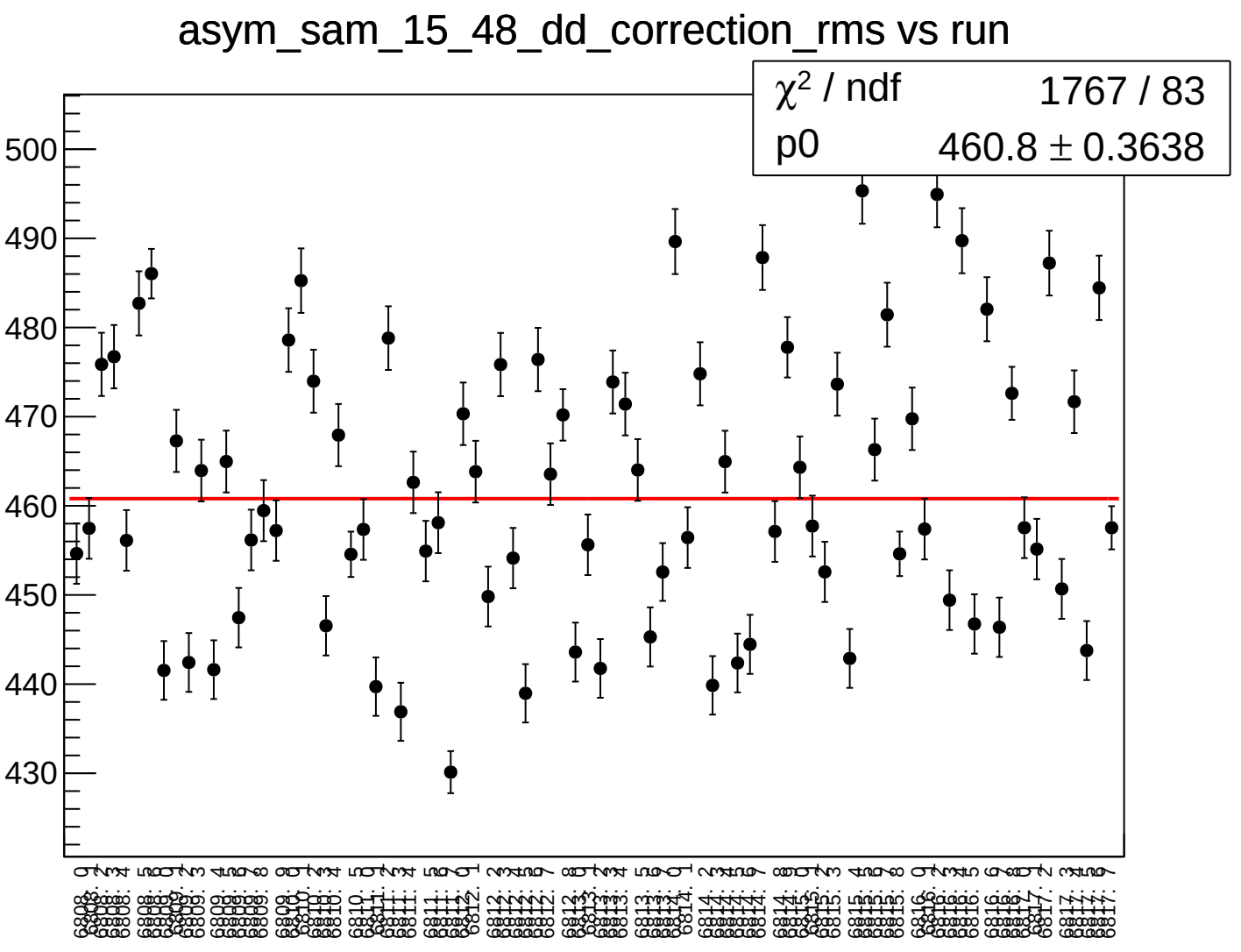

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 84.12 / 83
p0 25.02 ± 65.92
pull
Entries 84
Mean −333
Std Dev 383.3

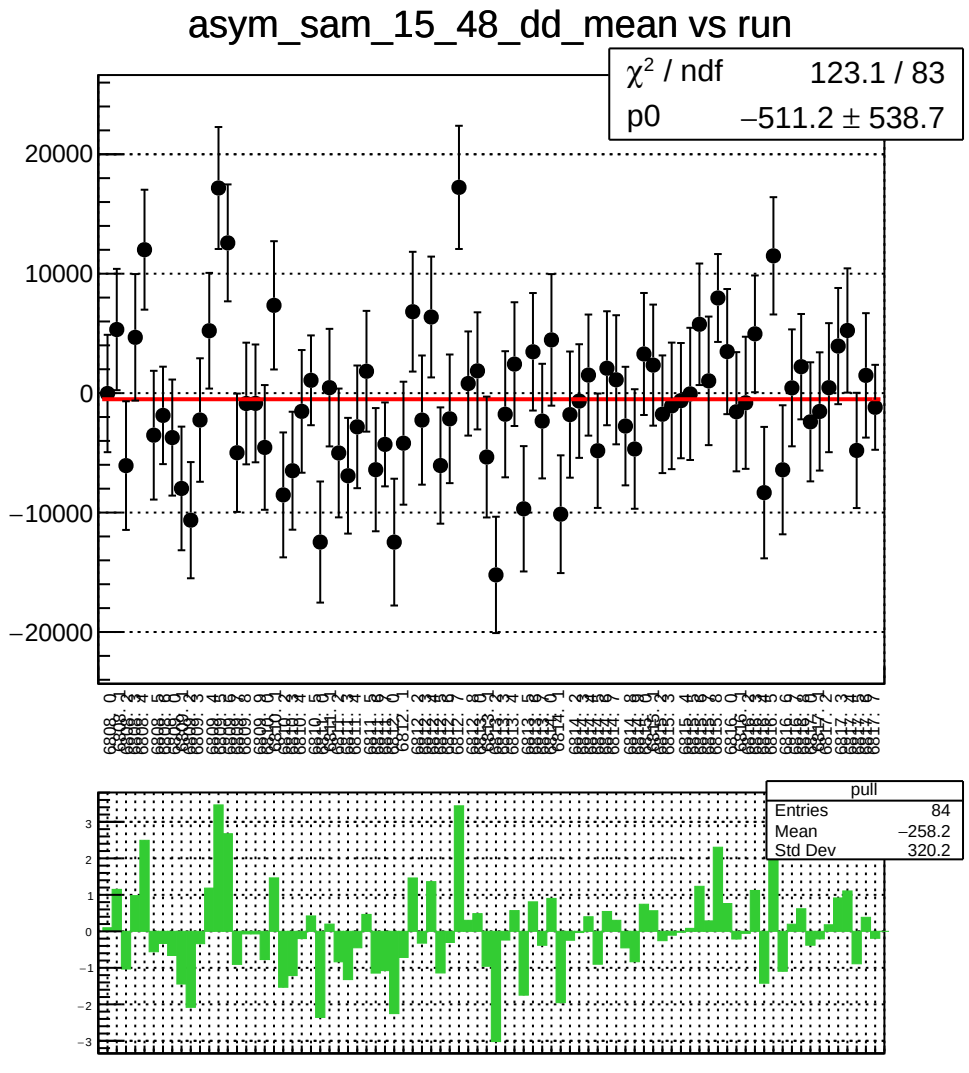

pull1D
Entries 84
Mean −0.01348
Std Dev 1.001

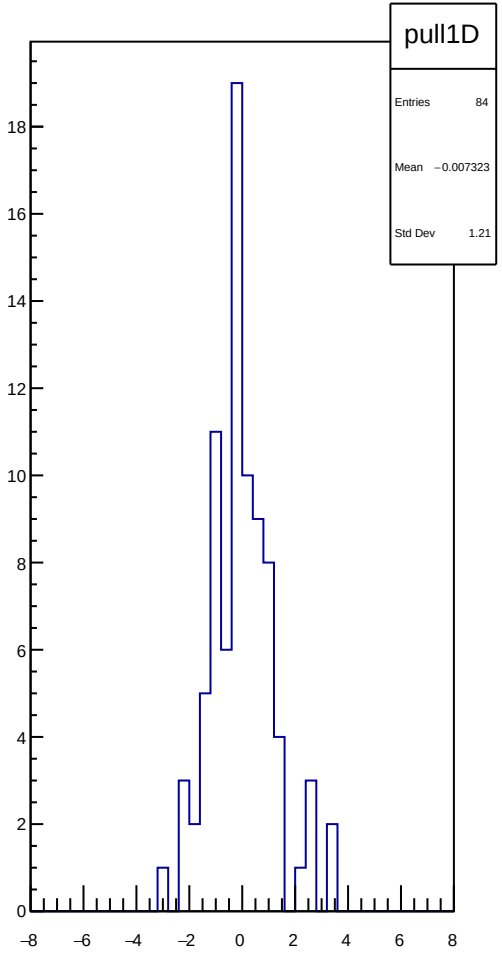

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 3481 / 83
p0 59.01 ± 0.04661
68
66
64
62
60
58
56
54
52

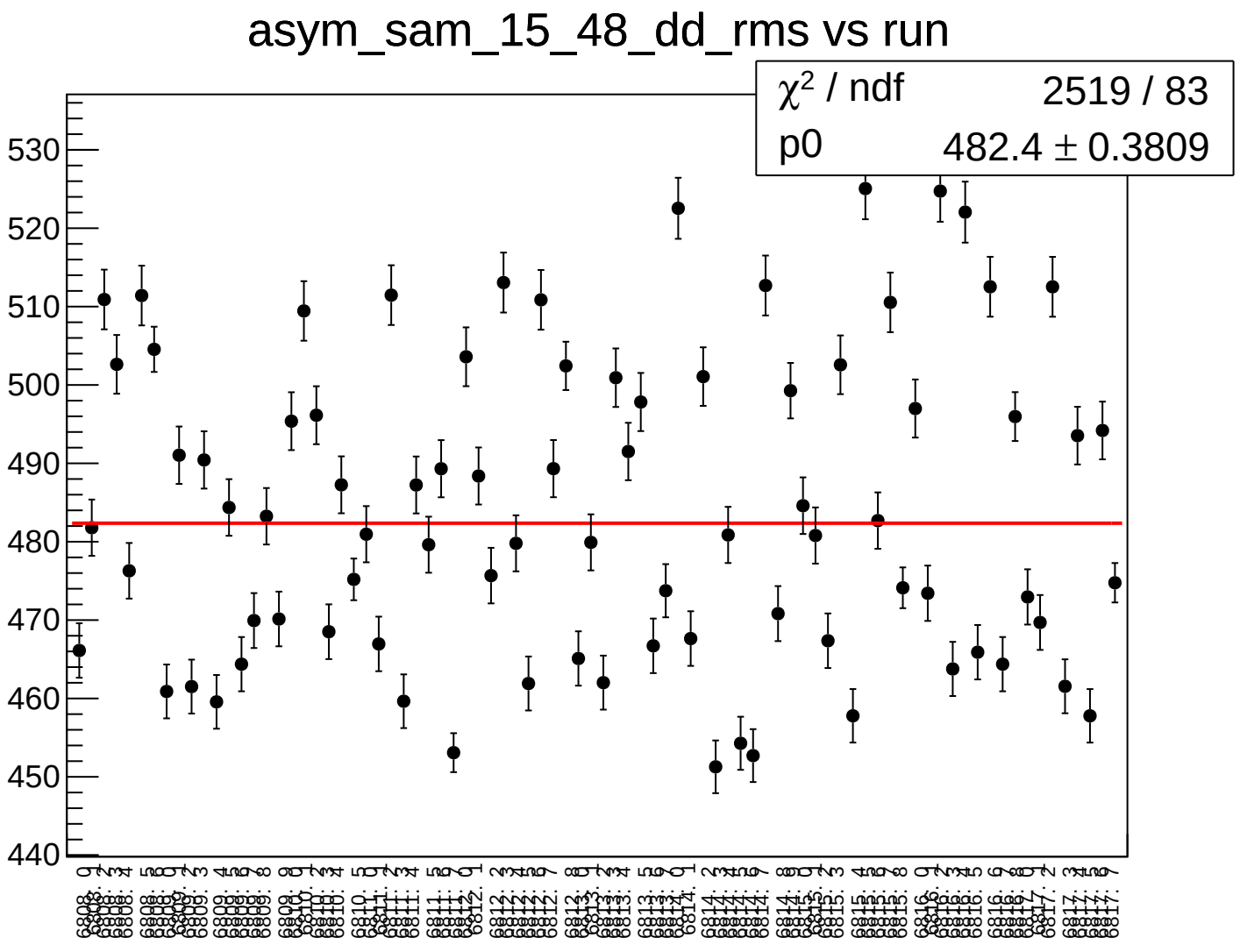

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 120.3 / 83
p0 551.7 ± 514.5
pull
Entries 84
Mean −332.2
Std Dev 399.1

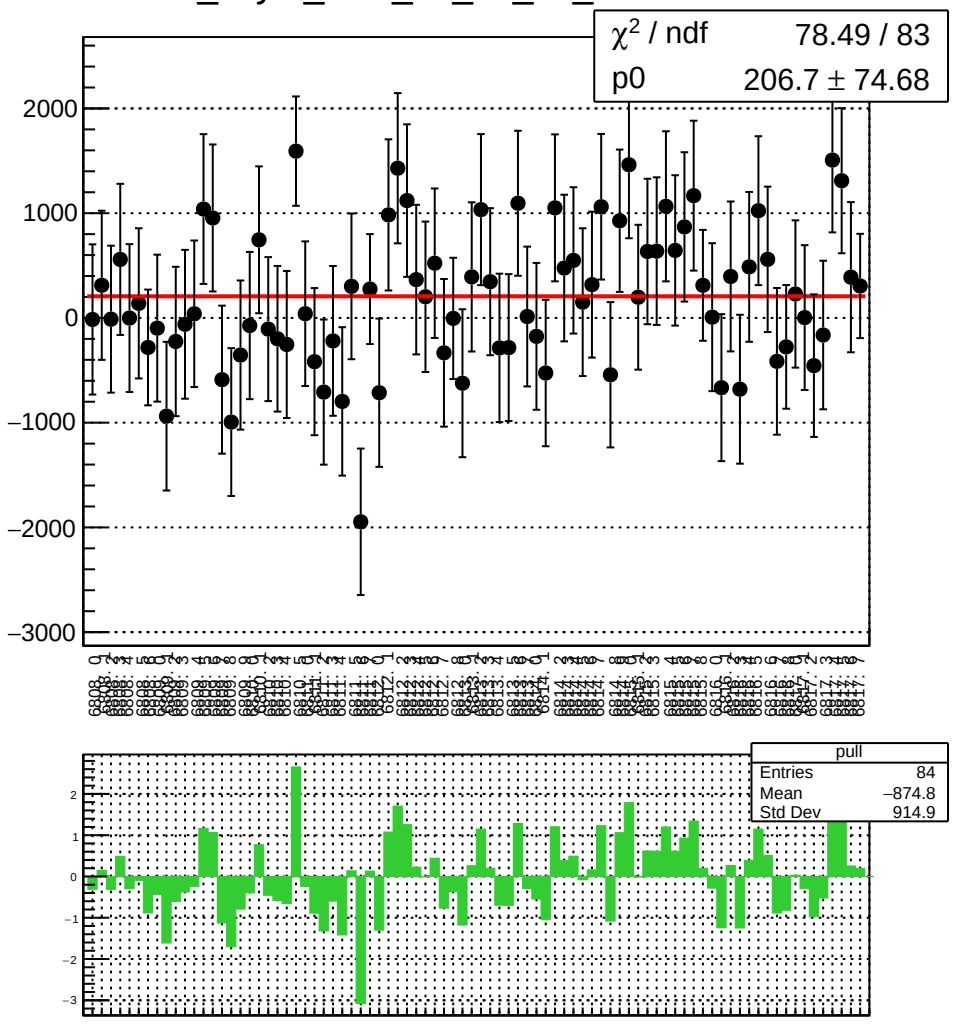

pull1D
Entries 84
Mean 0.004412
Std Dev 1.196

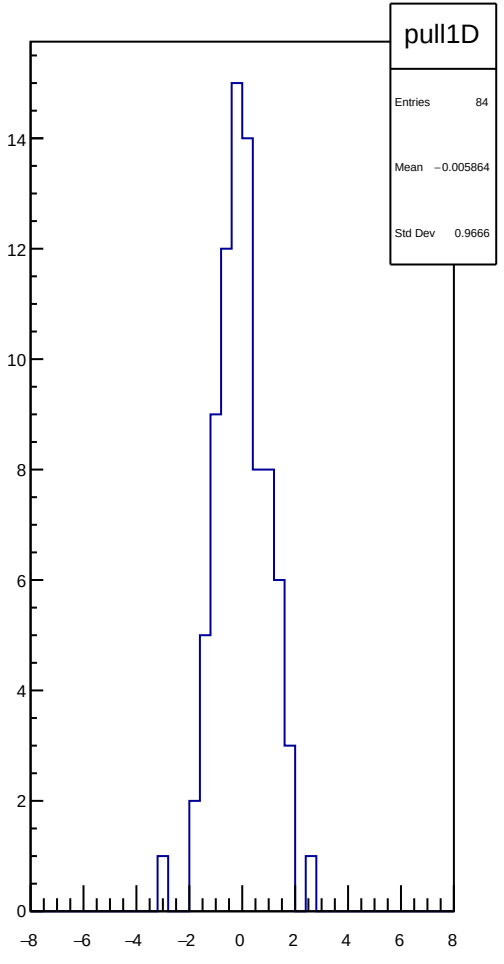

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 1767 / 83
p0 460.8 ± 0.3638
500
490
480
470
460
450
440
430

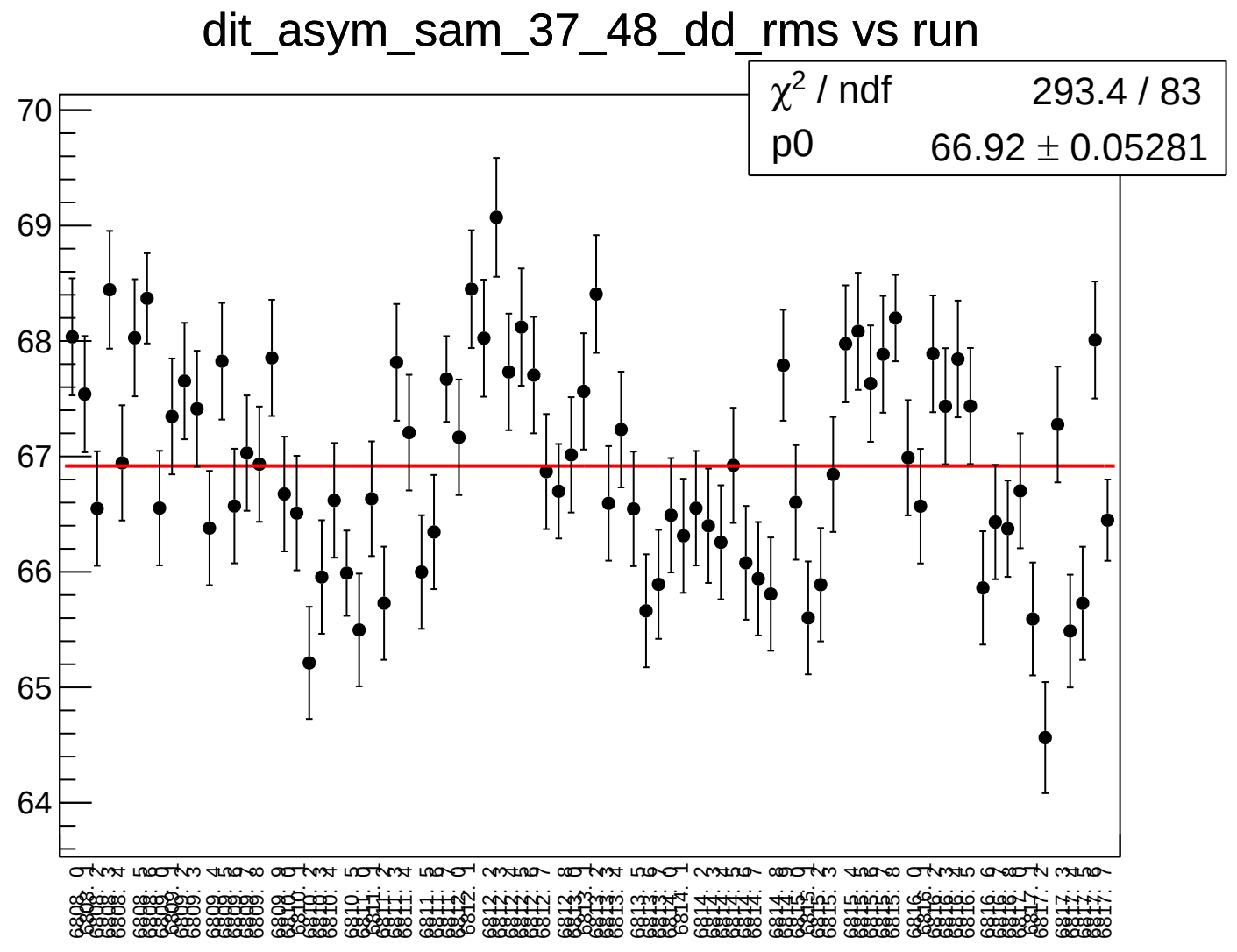

asym_sam_15_48_dd_mean vs run
χ² / ndf 123.1 / 83
p0 −511.2 ± 538.7
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −258.2
Std Dev 320.2
3
2
1
0
−1
−2
−3

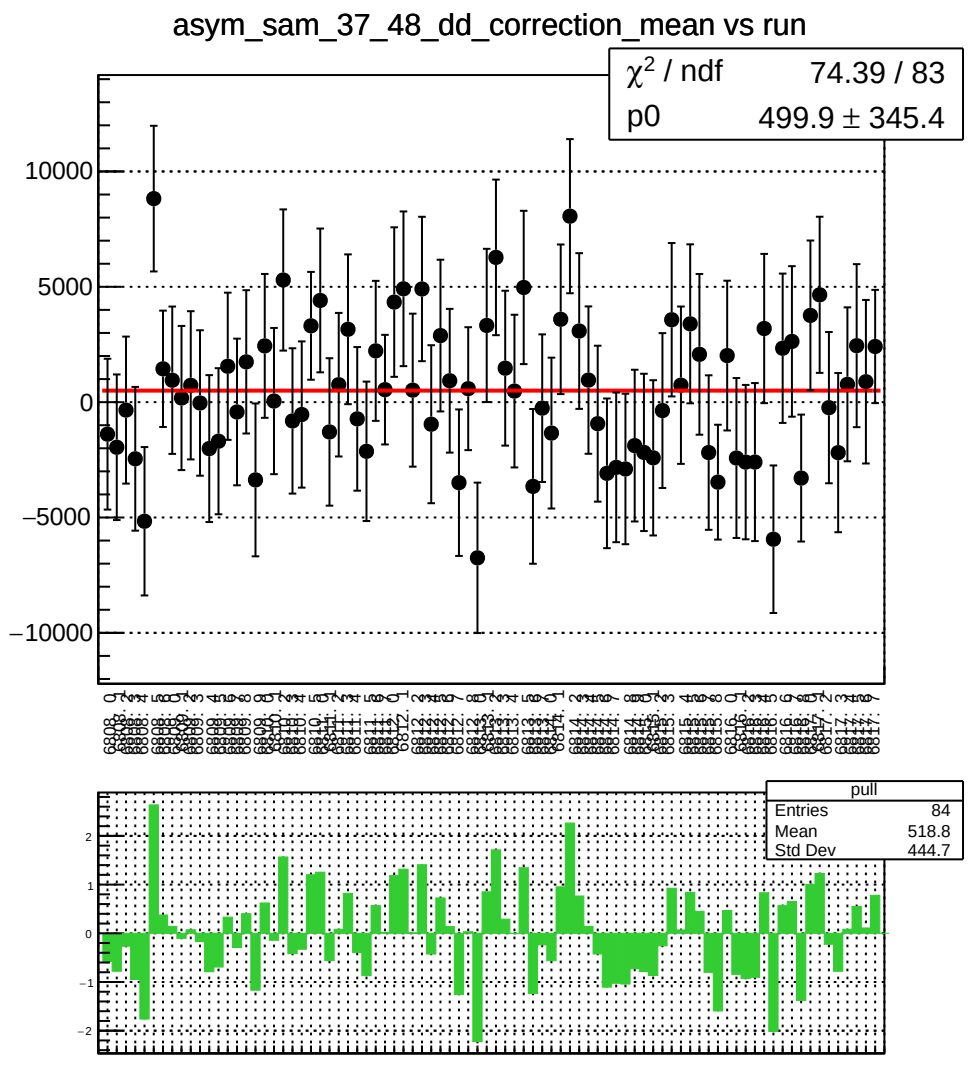

pull1D
Entries 84
Mean −0.007323
Std Dev 1.21
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

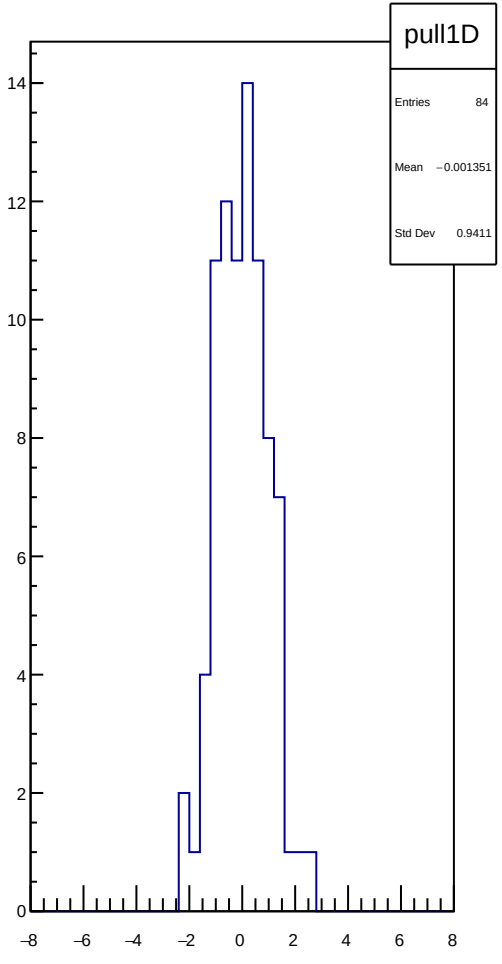

asym_sam_15_48_dd_rms vs run
χ^2 / ndf 2519 / 83
p0 482.4 ± 0.3809
530
520
510
500
490
480
470
460
450
440

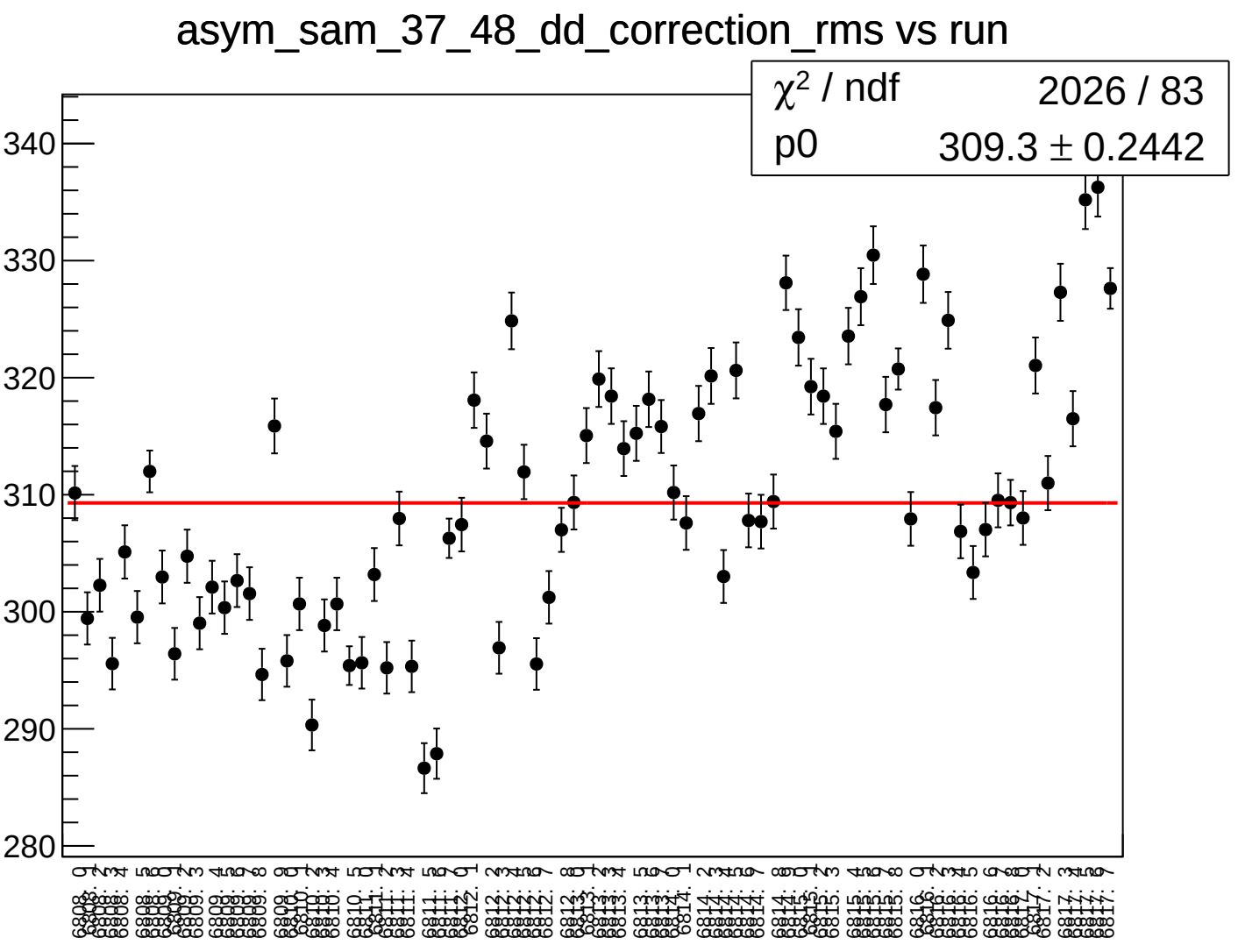

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 78.49 / 83
p0 206.7 ± 74.68
2000
1000
0
−1000
−2000
−3000
pull
Entries 84
Mean −874.8
Std Dev 914.9
2
1
0
−1
−2
−3

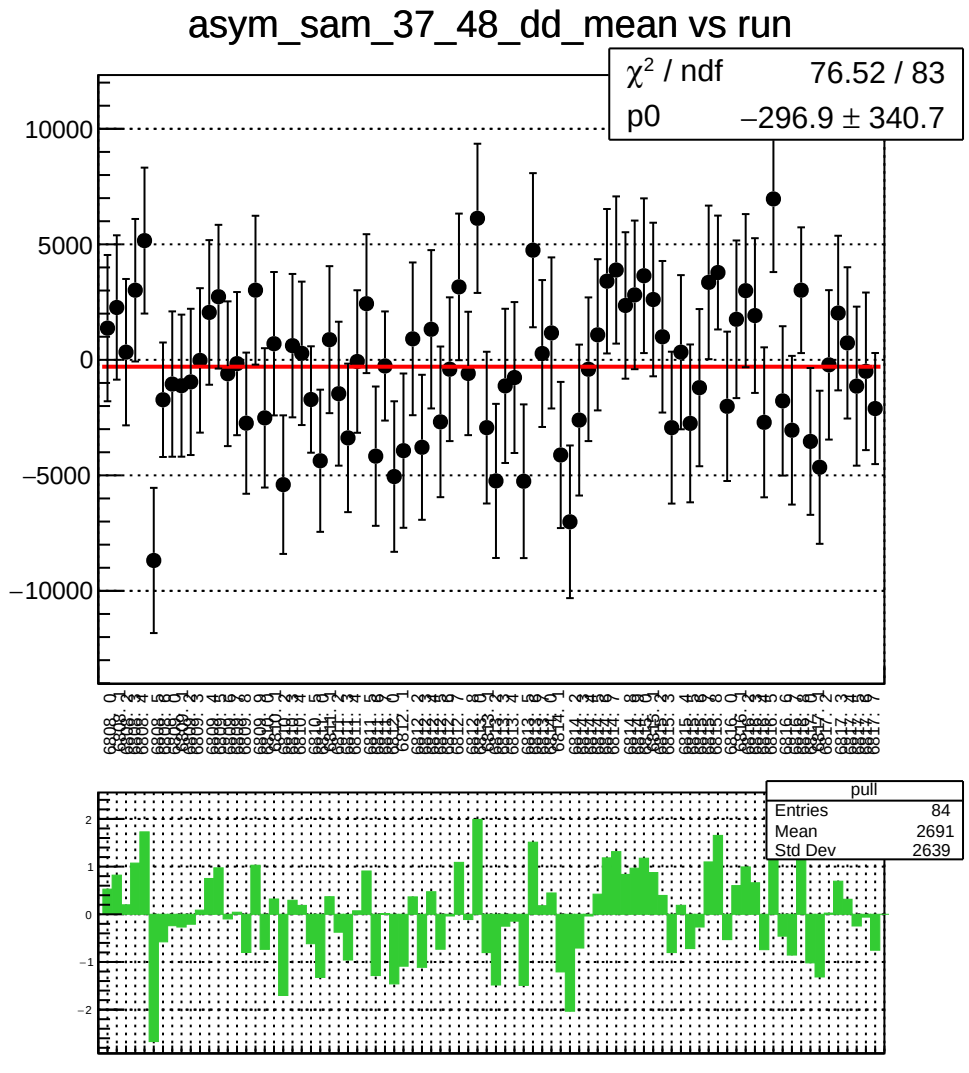

pull1D
Entries 84
Mean −0.005864
Std Dev 0.9666
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

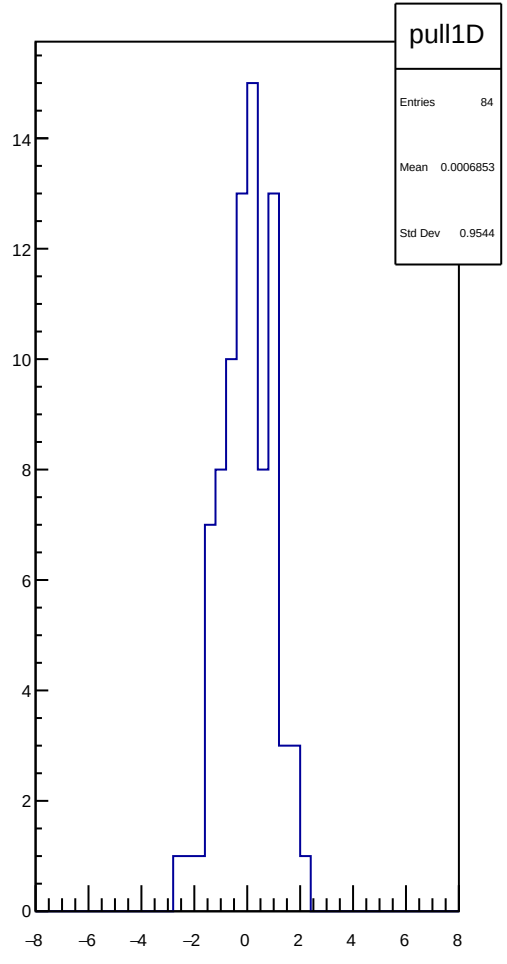

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 293.4 / 83
p0 66.92 ± 0.05281
70
69
68
67
66
65
64

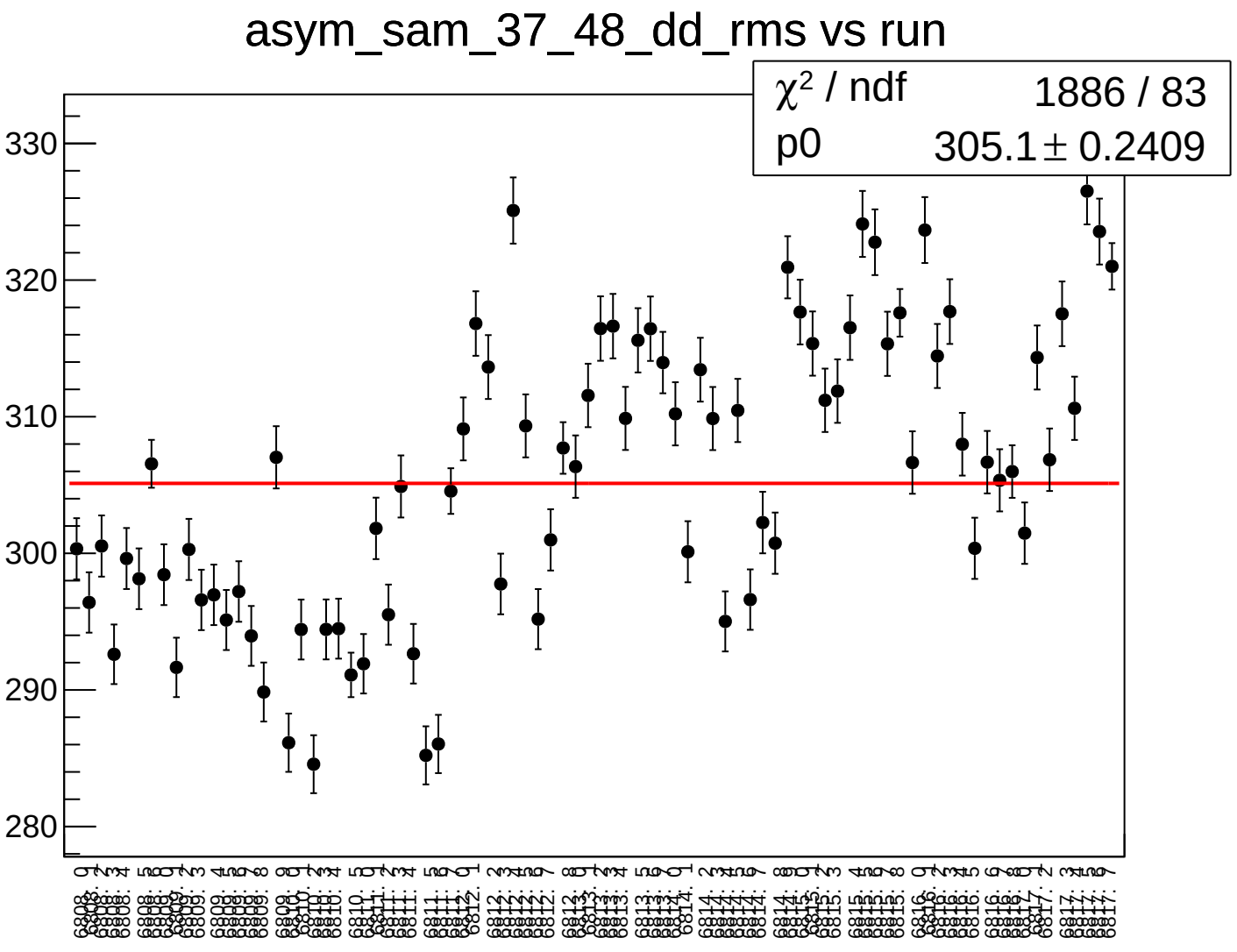

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 74.39 / 83
p0 499.9 ± 345.4
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 518.8
Std Dev 444.7
2
1
0
−1
−2

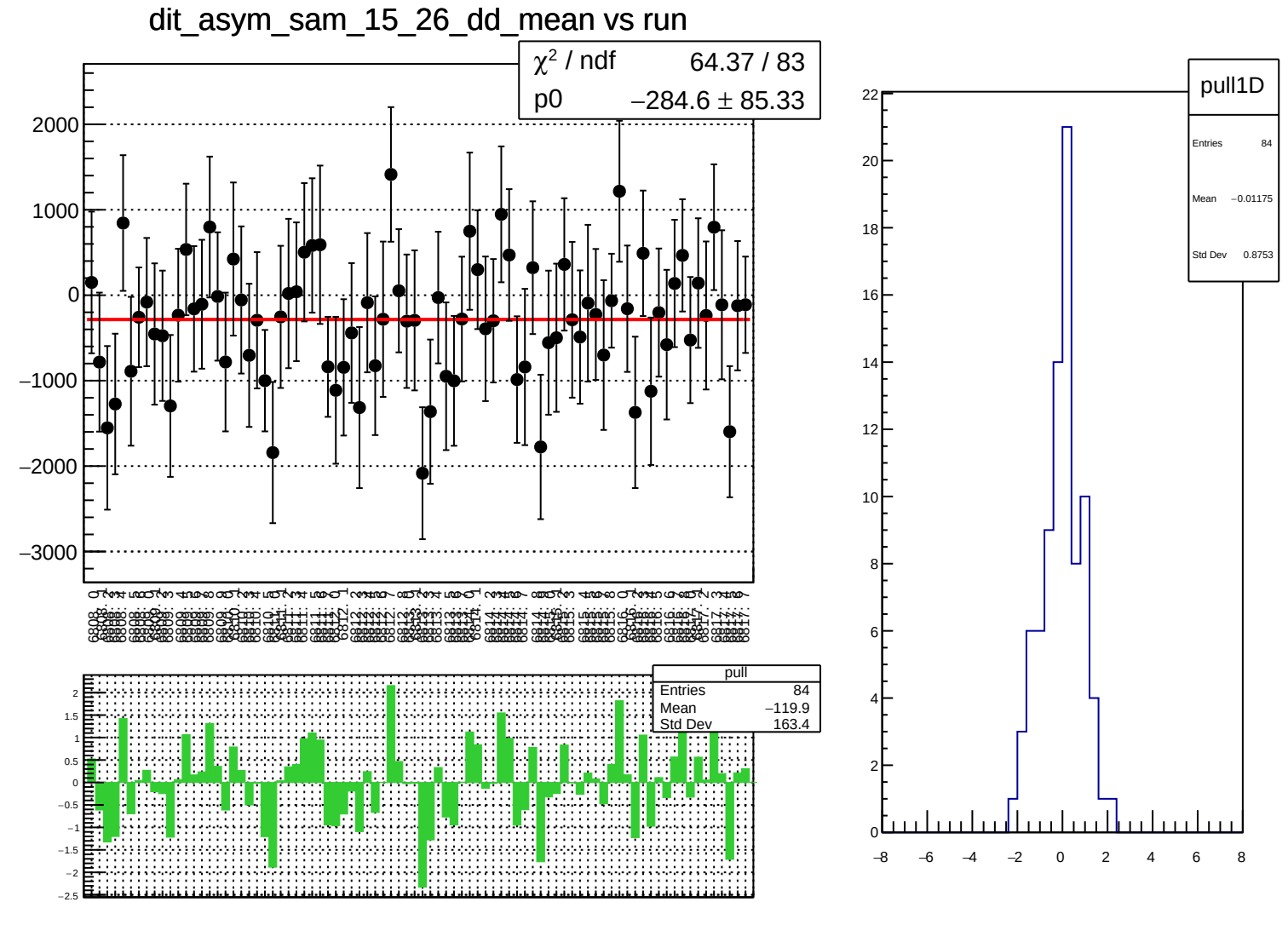

pull1D
Entries 84
Mean −0.001351
Std Dev 0.9411
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

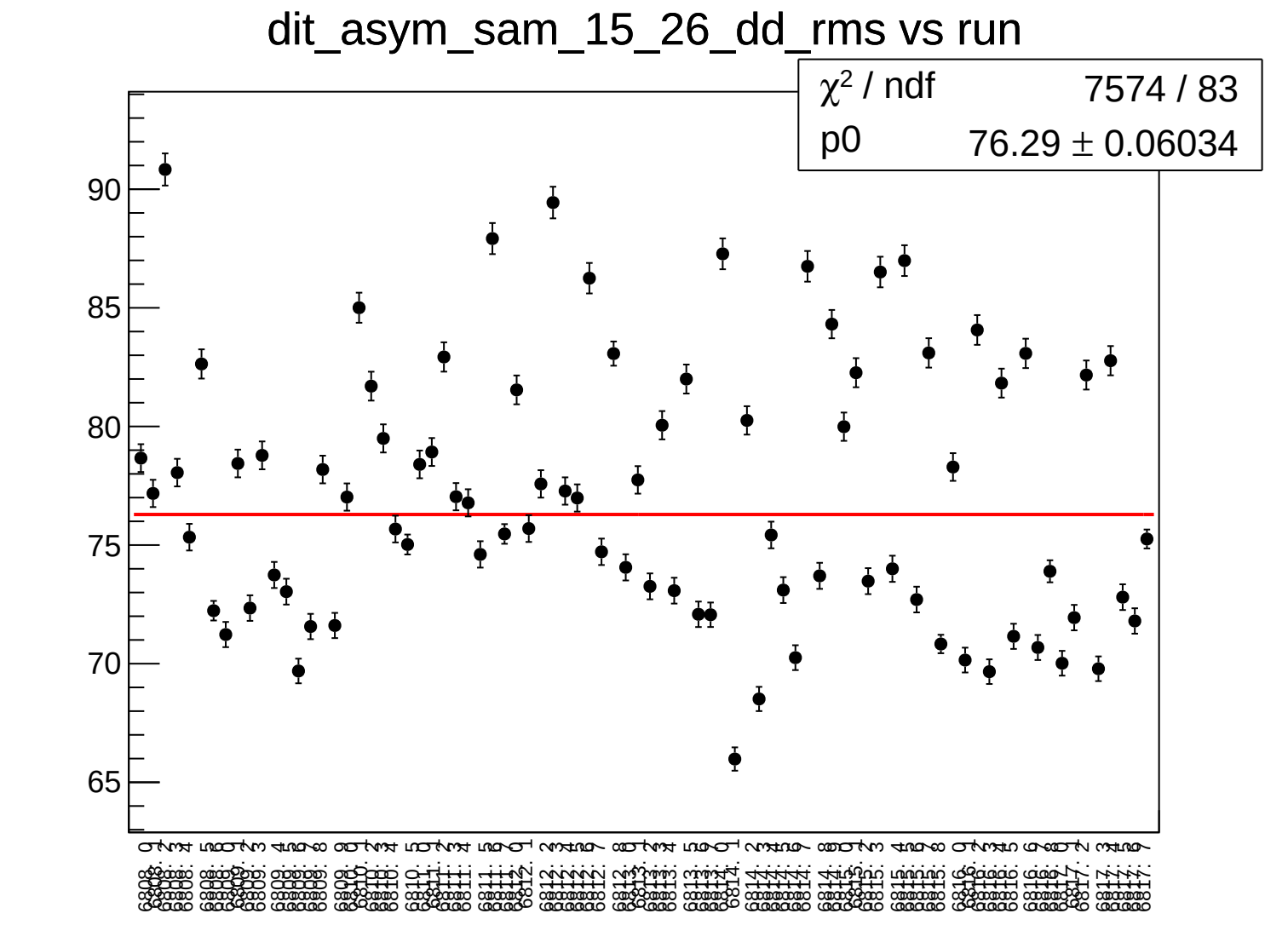

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 2026 / 83
p0 309.3 ± 0.2442
340
330
320
310
300
290
280

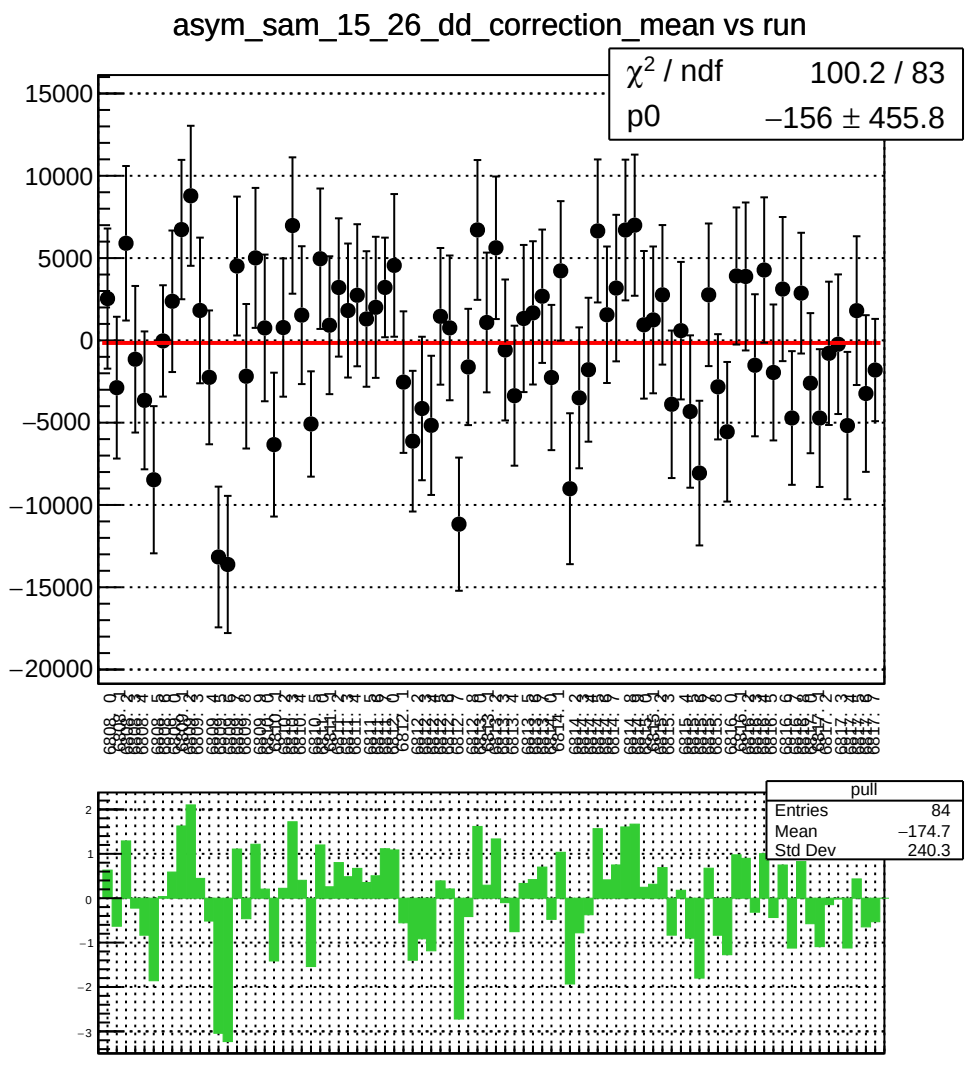

asym_sam_37_48_dd_mean vs run
χ² / ndf 76.52 / 83
p0 −296.9 ± 340.7
10000
5000
0
−5000
−10000
pull
Entries 84
Mean 2691
Std Dev 2639
2
1
0
−1
−2

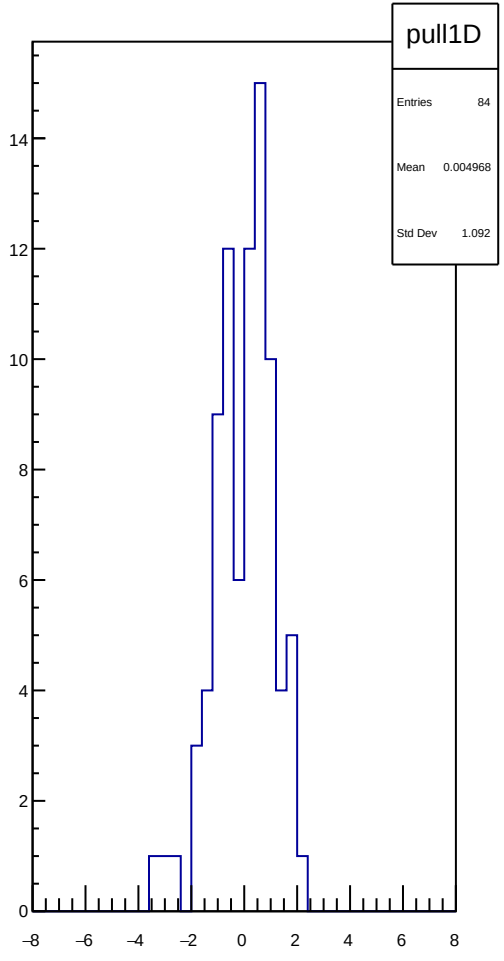

pull1D
Entries 84
Mean 0.0006853
Std Dev 0.9544
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

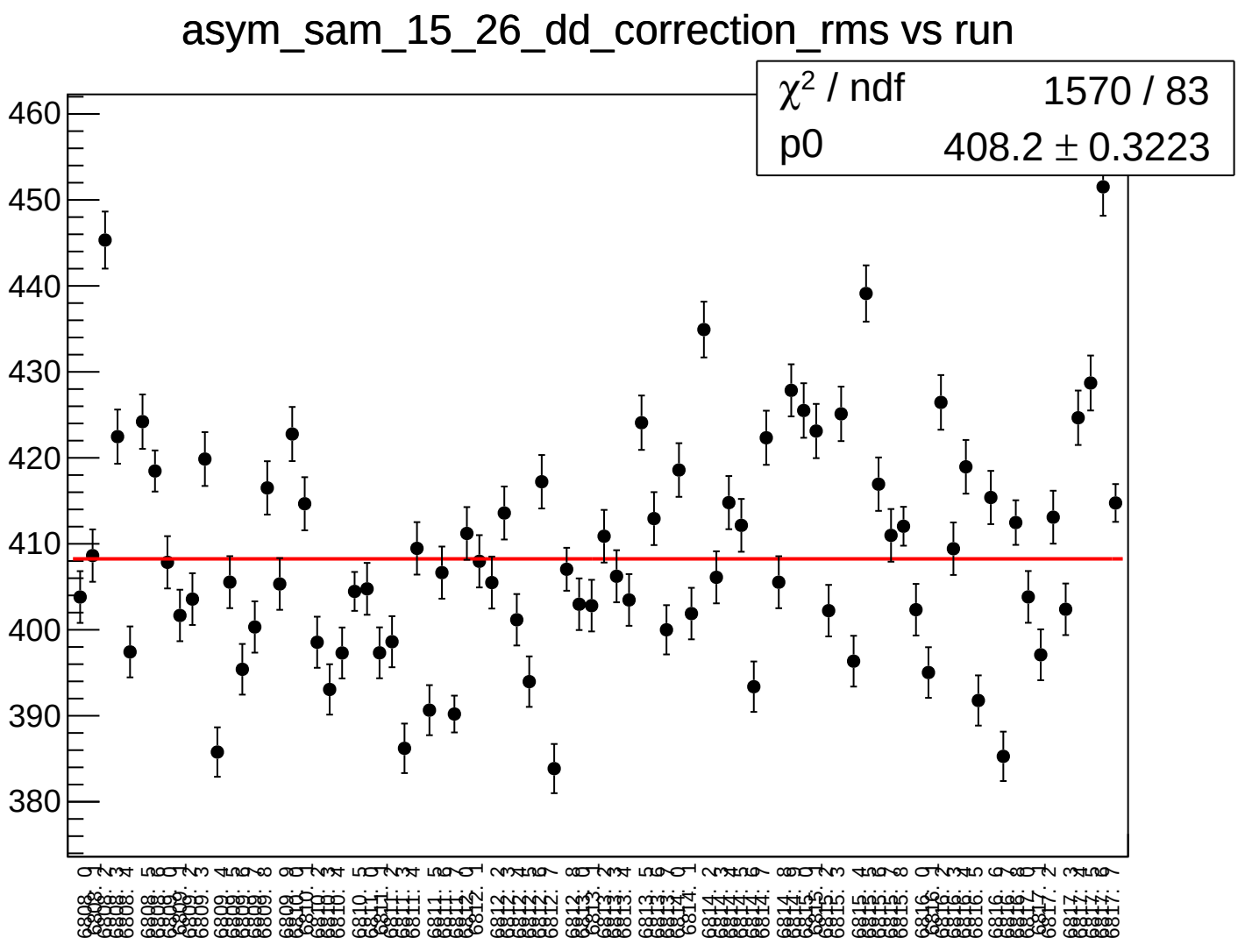

asym_sam_37_48_dd_rms vs run
χ² / ndf 1886 / 83
p0 305.1 ± 0.2409
330
320
310
300
290
280

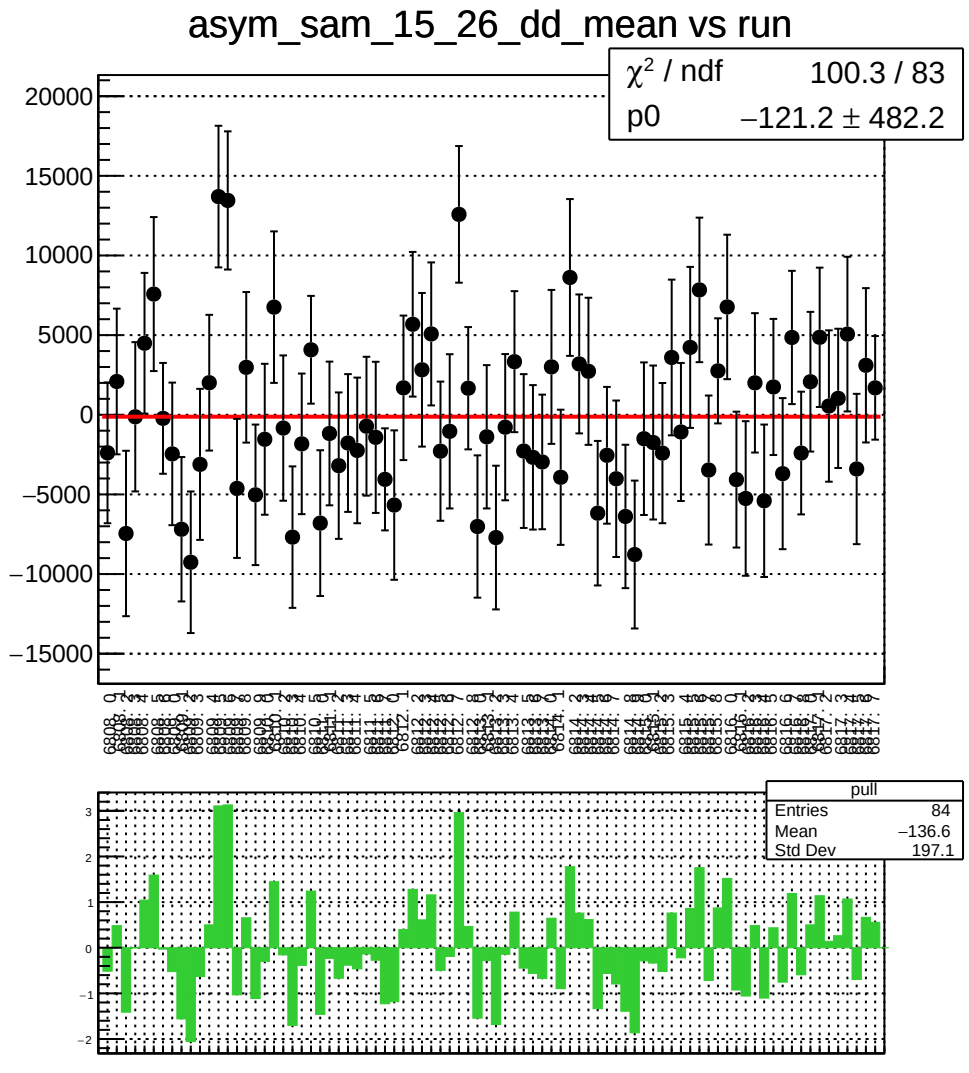

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 64.37 / 83
p0 −284.6 ± 85.33
pull
Entries 84
Mean −119.9
Std Dev 163.4
pull1D
Entries 84
Mean −0.01175
Std Dev 0.8753

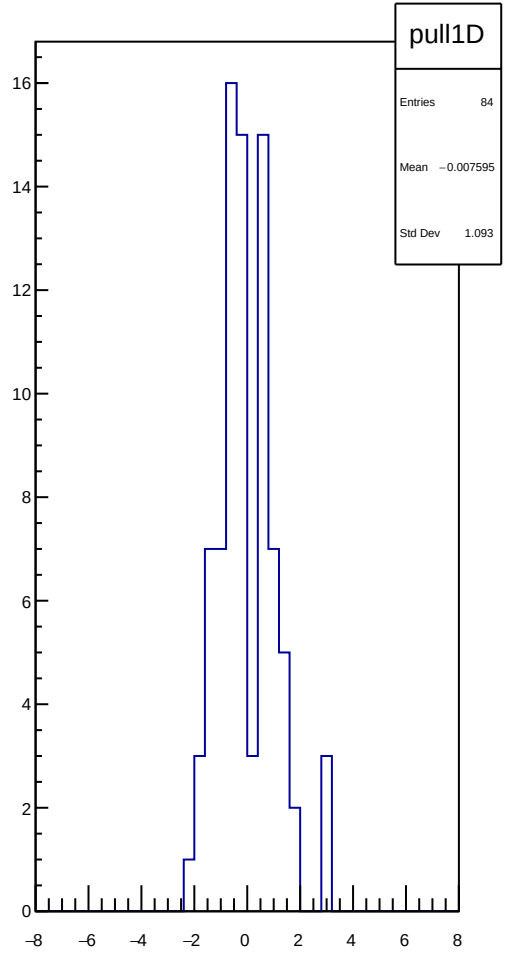

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 7574 / 83
p0 76.29 ± 0.06034
90
85
80
75
70
65

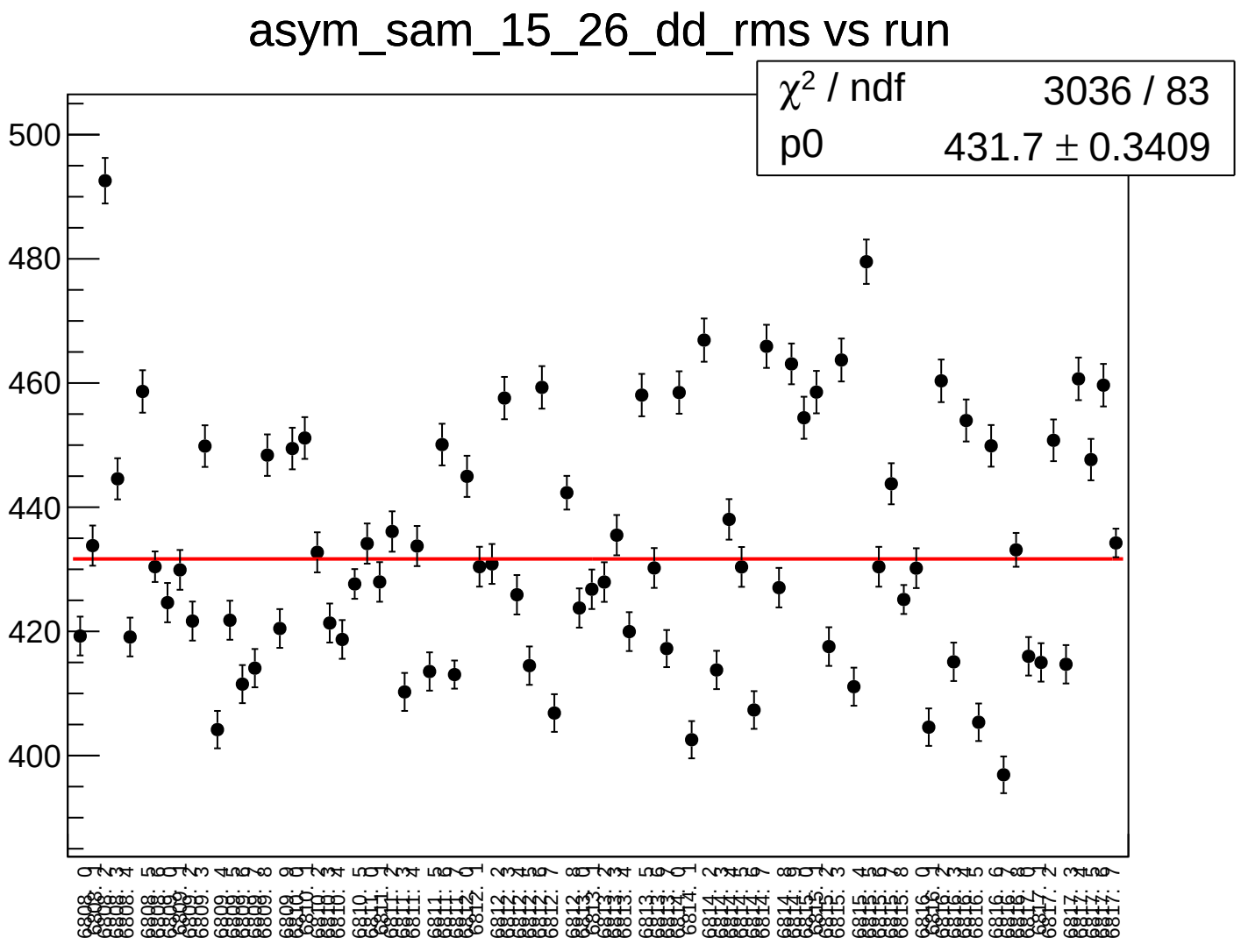

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 100.2 / 83
p0 −156 ± 455.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 84
Mean −174.7
Std Dev 240.3
2
1
0
−1
−2
−3

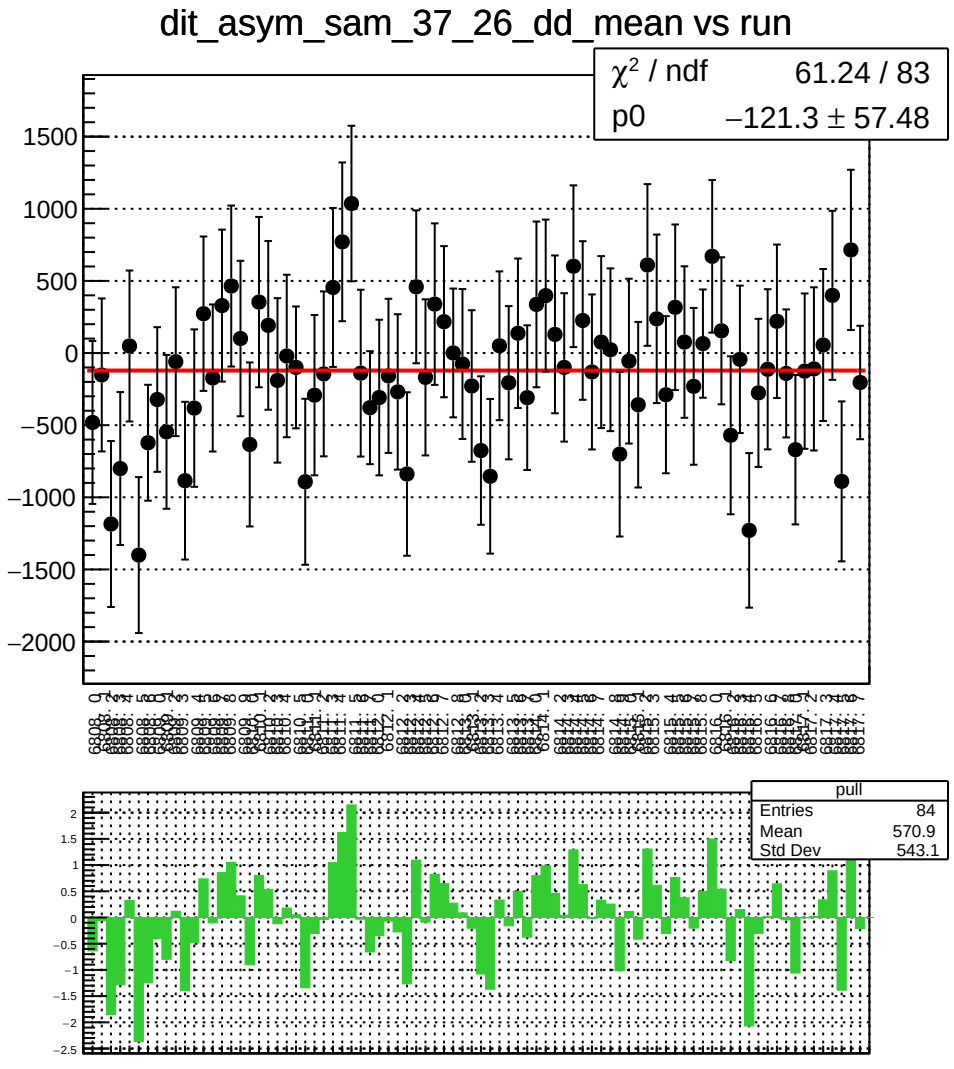

pull1D
Entries 84
Mean 0.004968
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

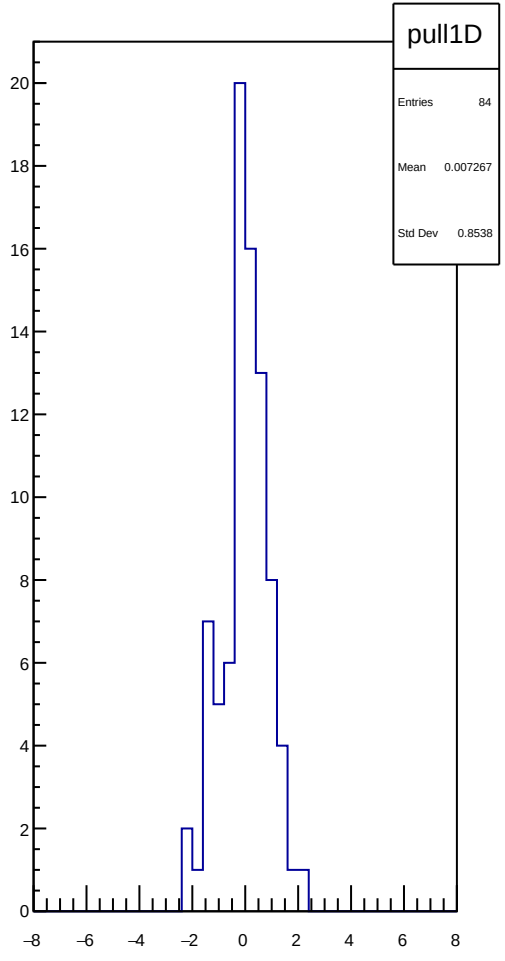

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 1570 / 83
p0 408.2 ± 0.3223
460
450
440
430
420
410
400
390
380

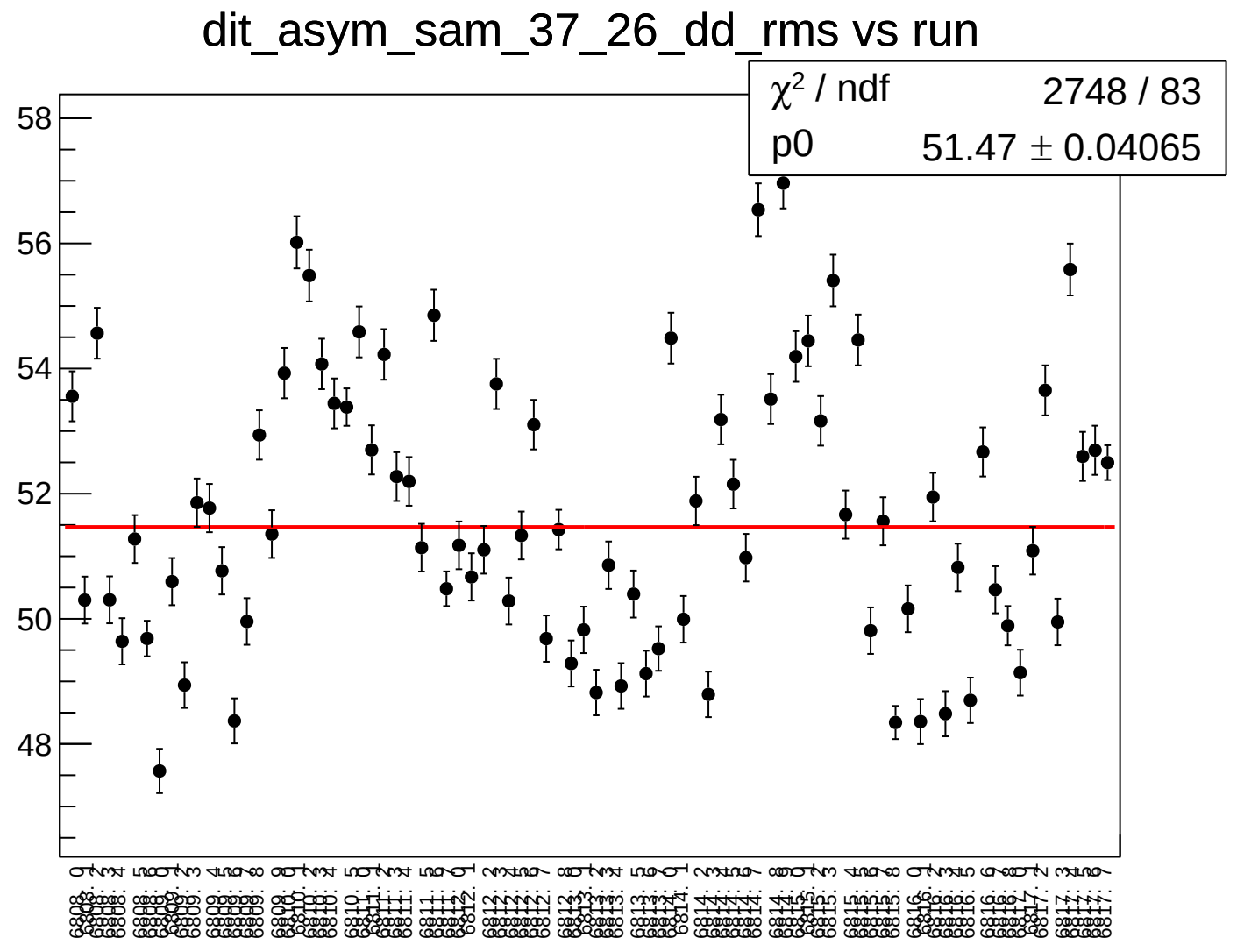

asym_sam_15_26_dd_mean vs run
χ² / ndf 100.3 / 83
p0 −121.2 ± 482.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −136.6
Std Dev 197.1
3
2
1
0
−1
−2

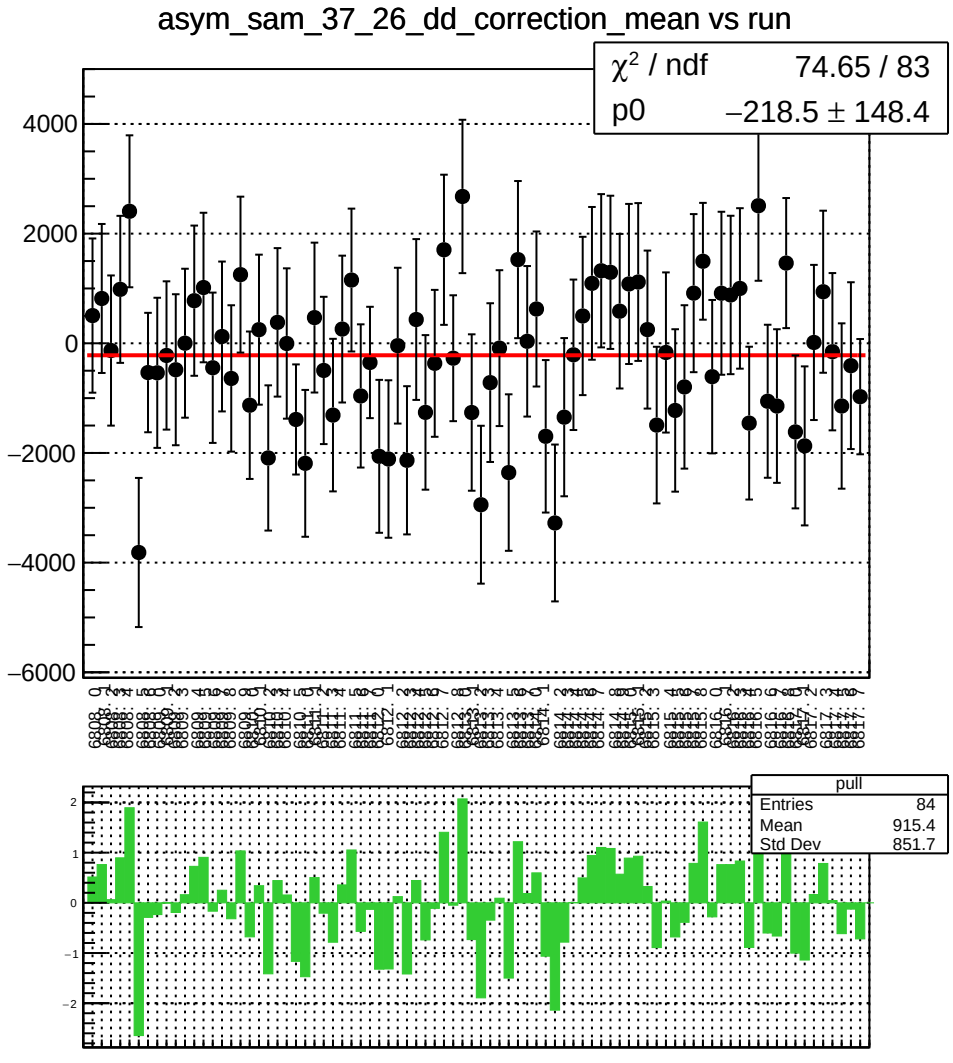

pull1D
Entries 84
Mean −0.007595
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

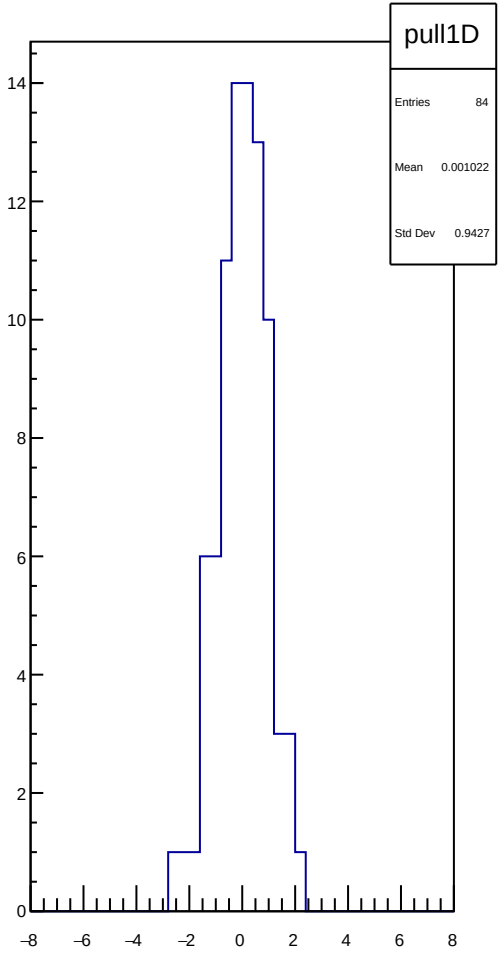

asym_sam_15_26_dd_rms vs run
χ² / ndf 3036 / 83
p0 431.7 ± 0.3409
500
480
460
440
420
400

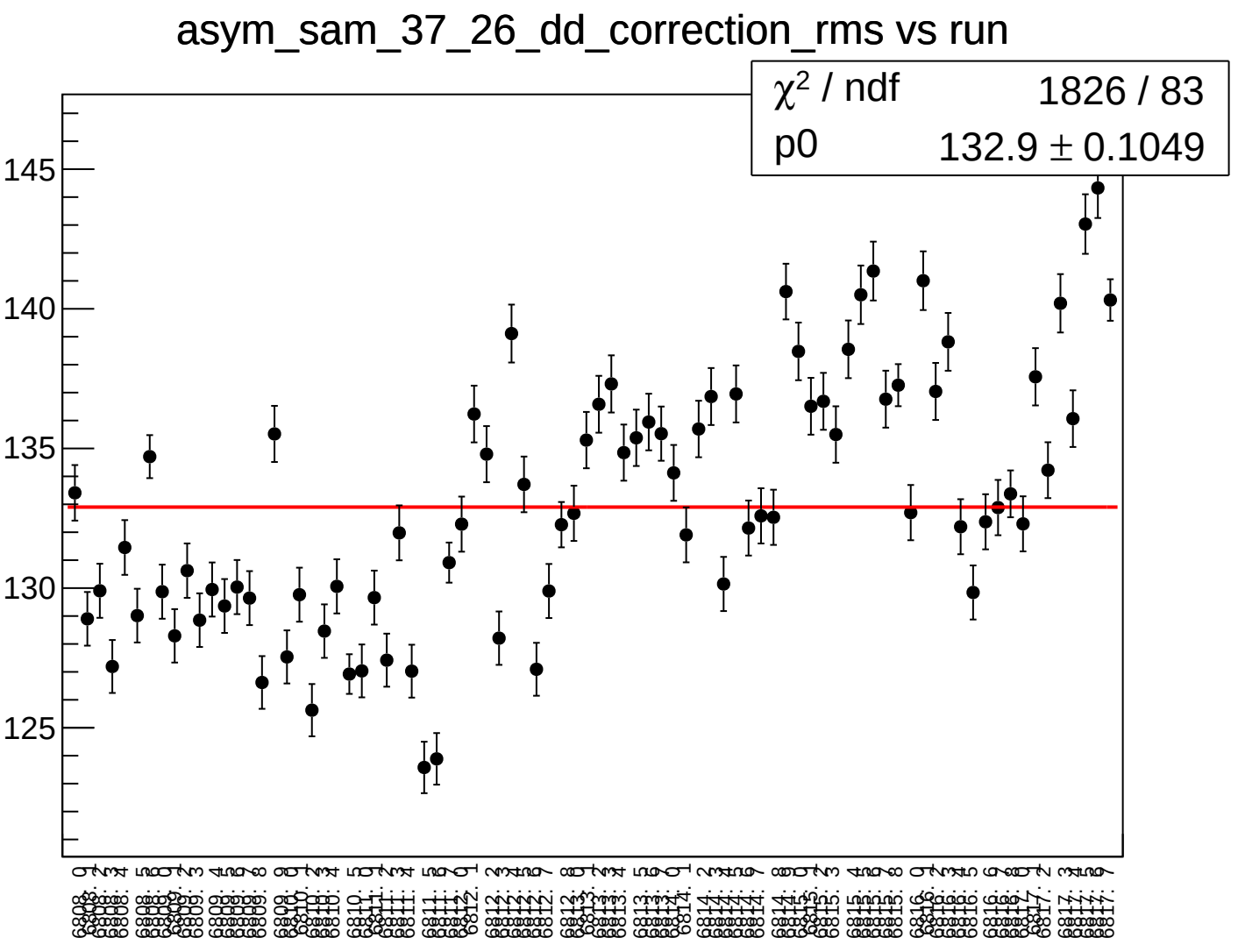

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 61.24 / 83
p0 −121.3 ± 57.48
pull
Entries 84
Mean 570.9
Std Dev 543.1

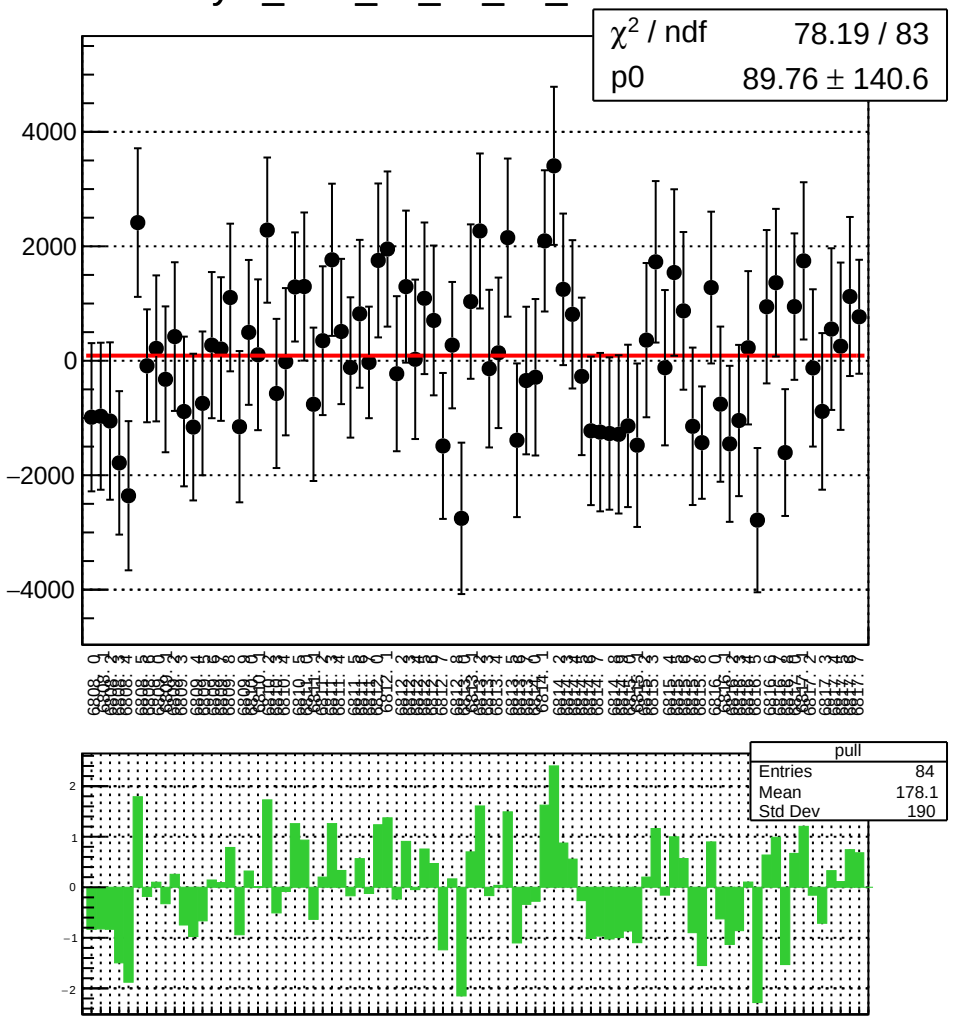

pull1D
Entries 84
Mean 0.007267
Std Dev 0.8538

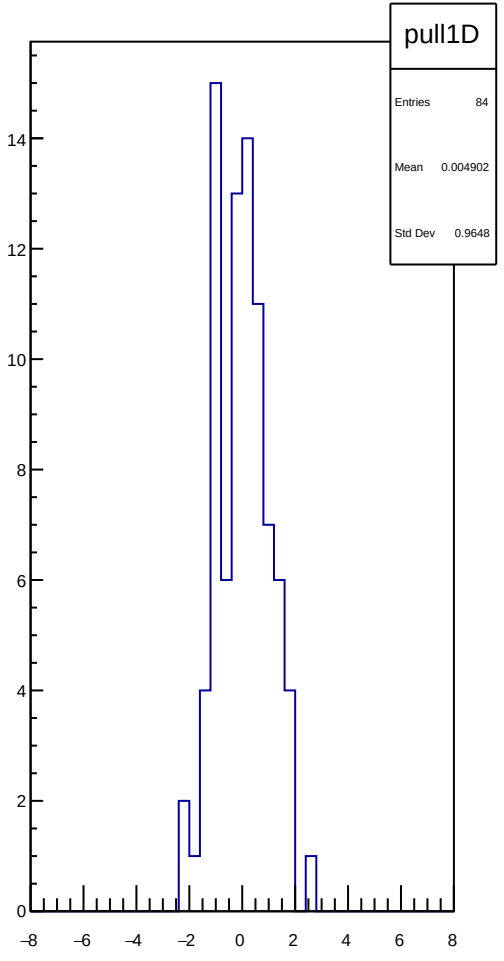

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2748 / 83
p0 51.47 ± 0.04065
58
56
54
52
50
48

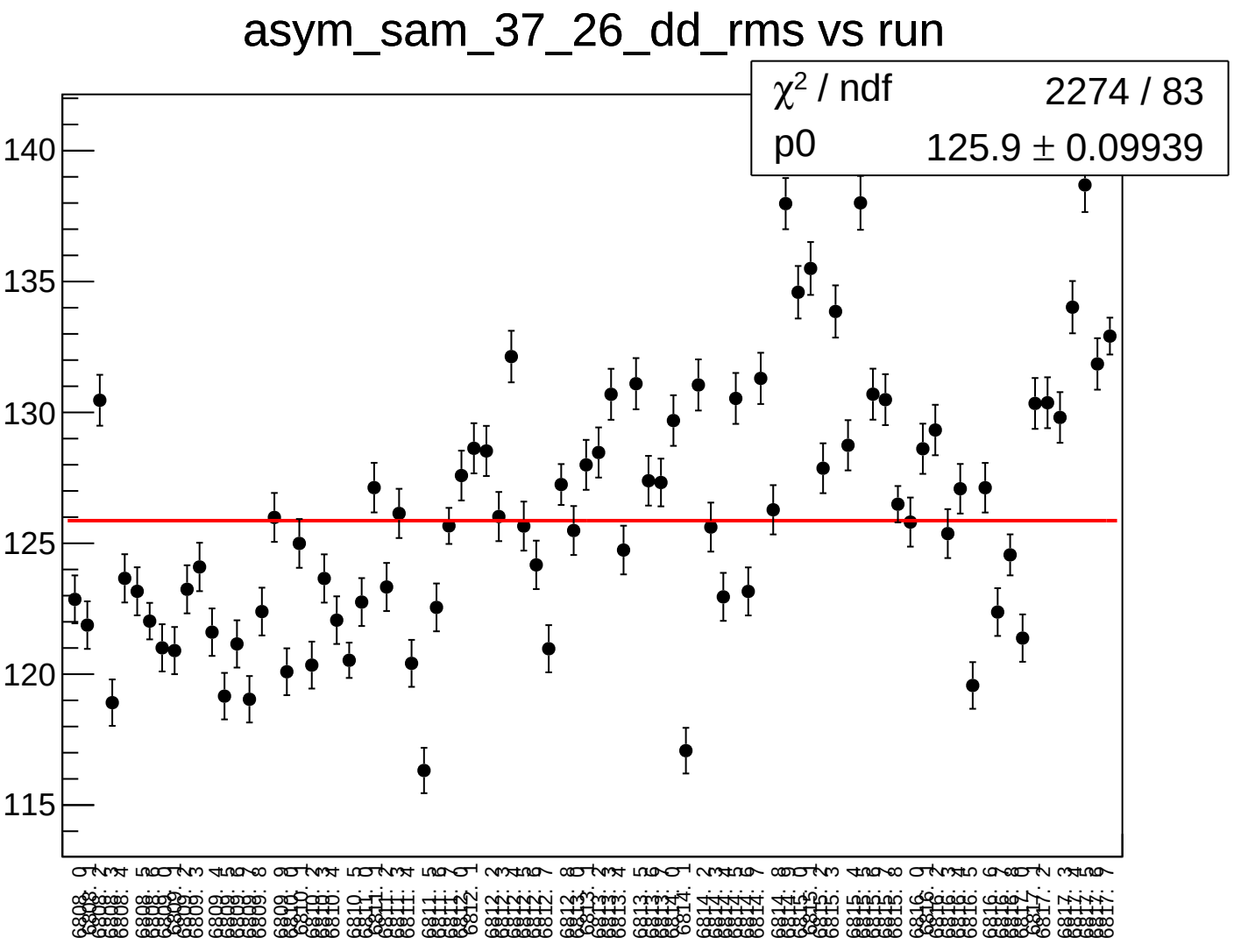

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 74.65 / 83
p0 −218.5 ± 148.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 915.4
Std Dev 851.7
2
1
0
−1
−2

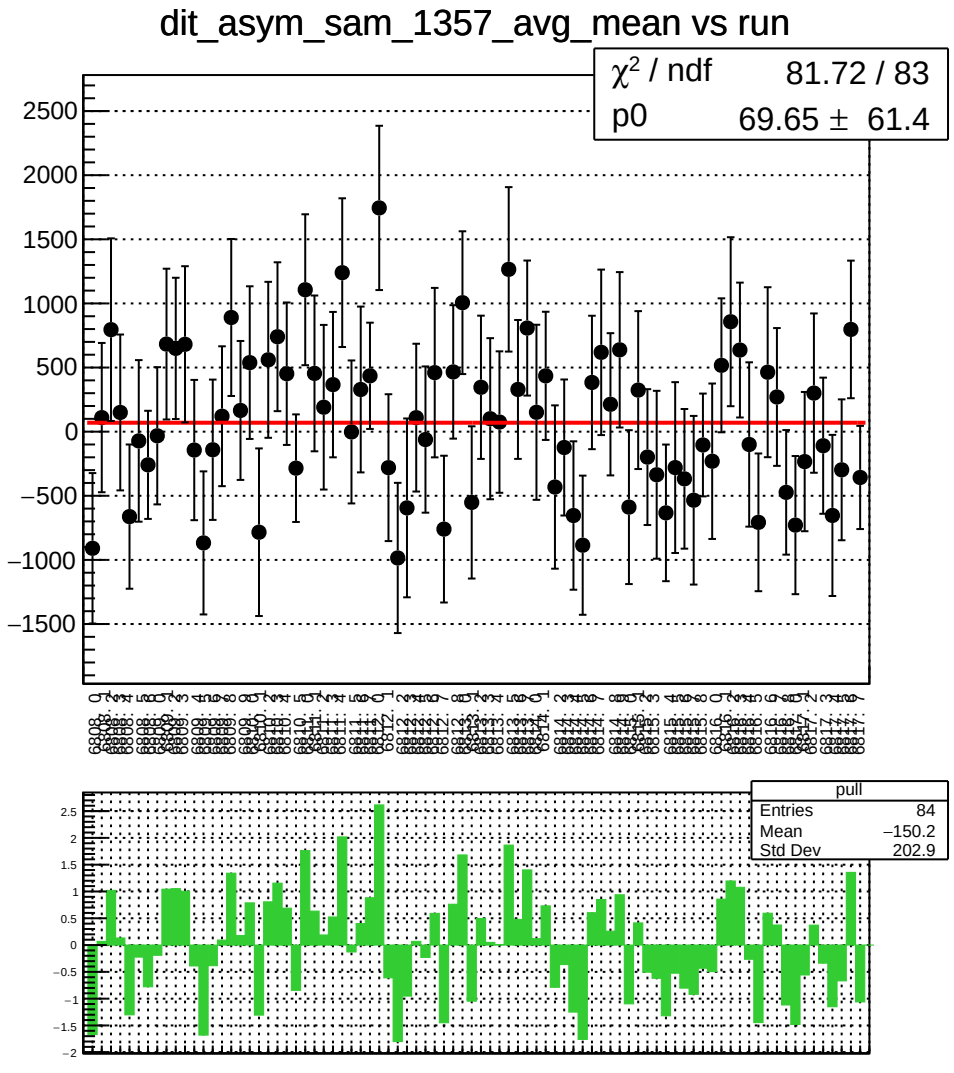

pull1D
Entries 84
Mean 0.001022
Std Dev 0.9427
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

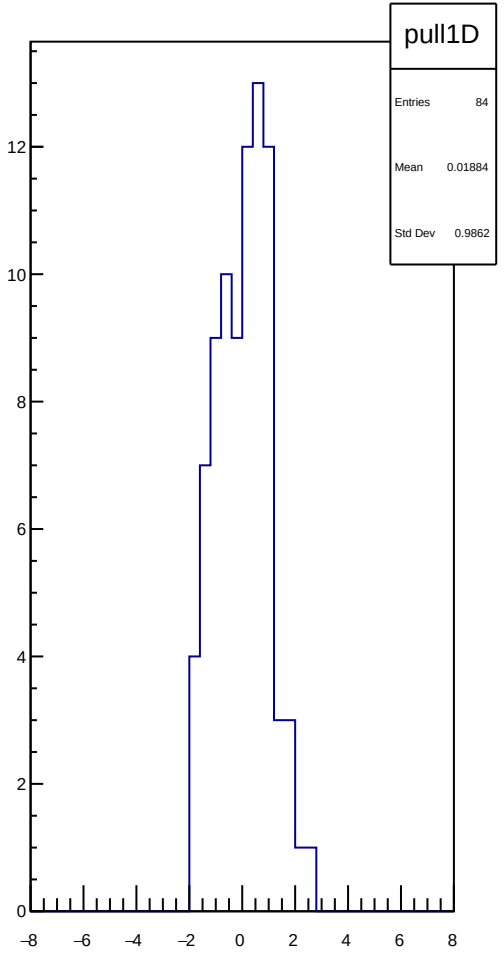

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 1826 / 83
p0 132.9 ± 0.1049
145
140
135
130
125

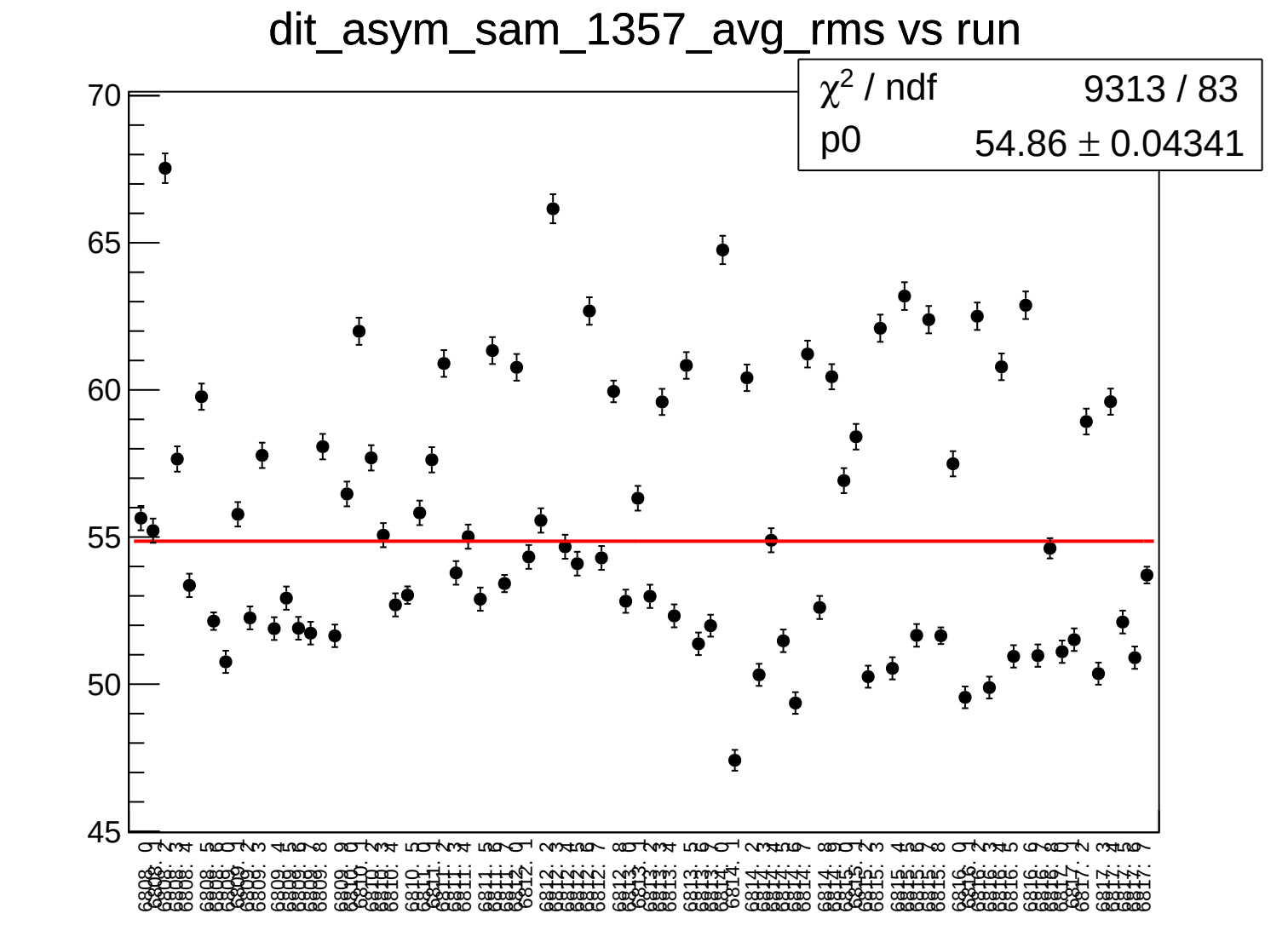

asym_sam_37_26_dd_mean vs run
χ² / ndf 78.19 / 83
p0 89.76 ± 140.6
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 178.1
Std Dev 190
2
1
0
−1
−2

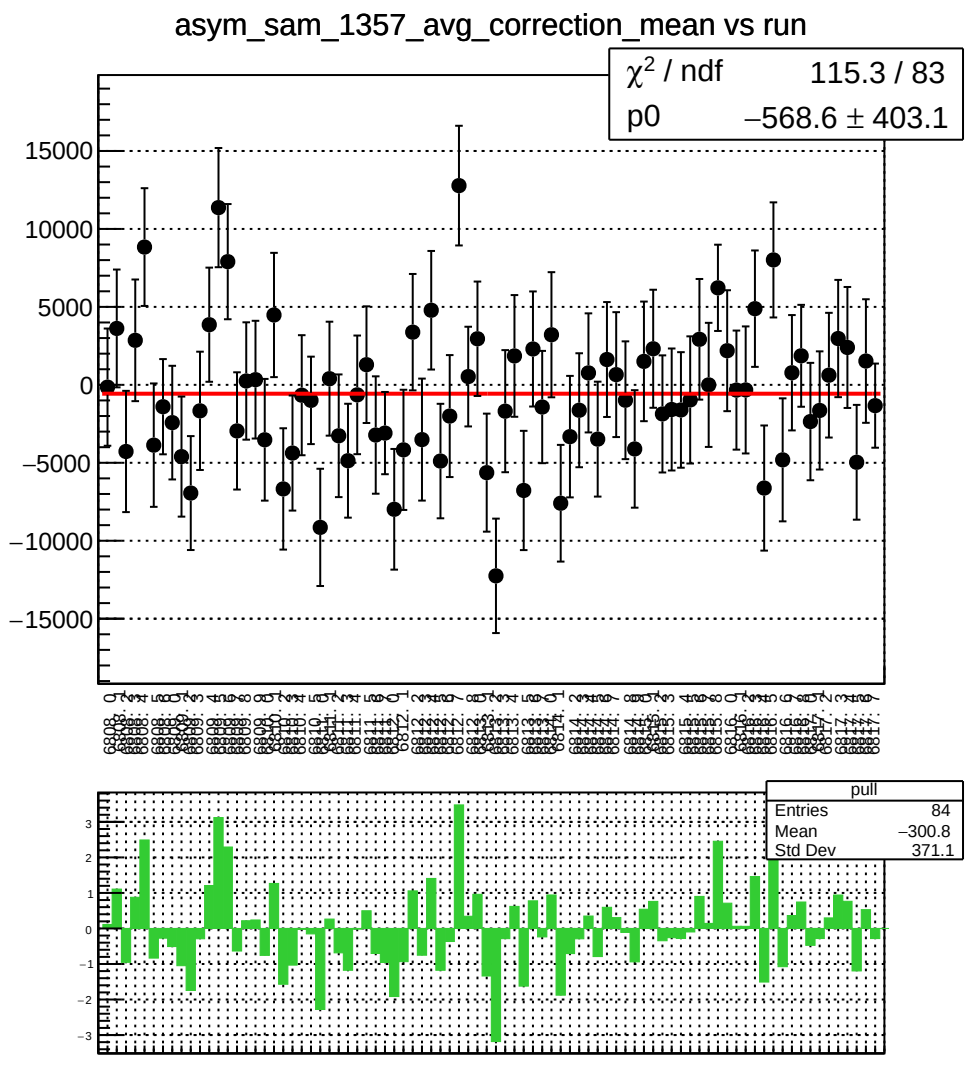

pull1D
Entries 84
Mean 0.004902
Std Dev 0.9648
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

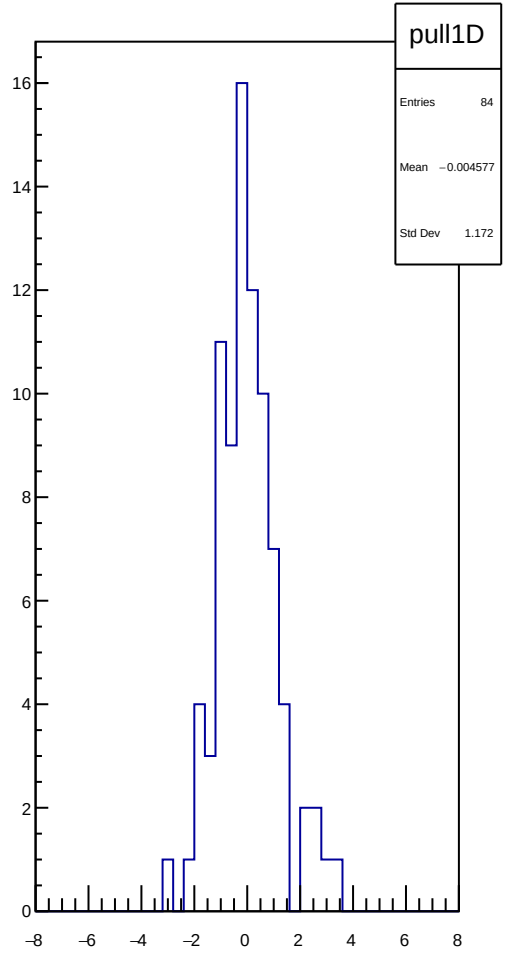

asym_sam_37_26_dd_rms vs run
χ² / ndf 2274 / 83
p0 125.9 ± 0.09939
140
135
130
125
120
115

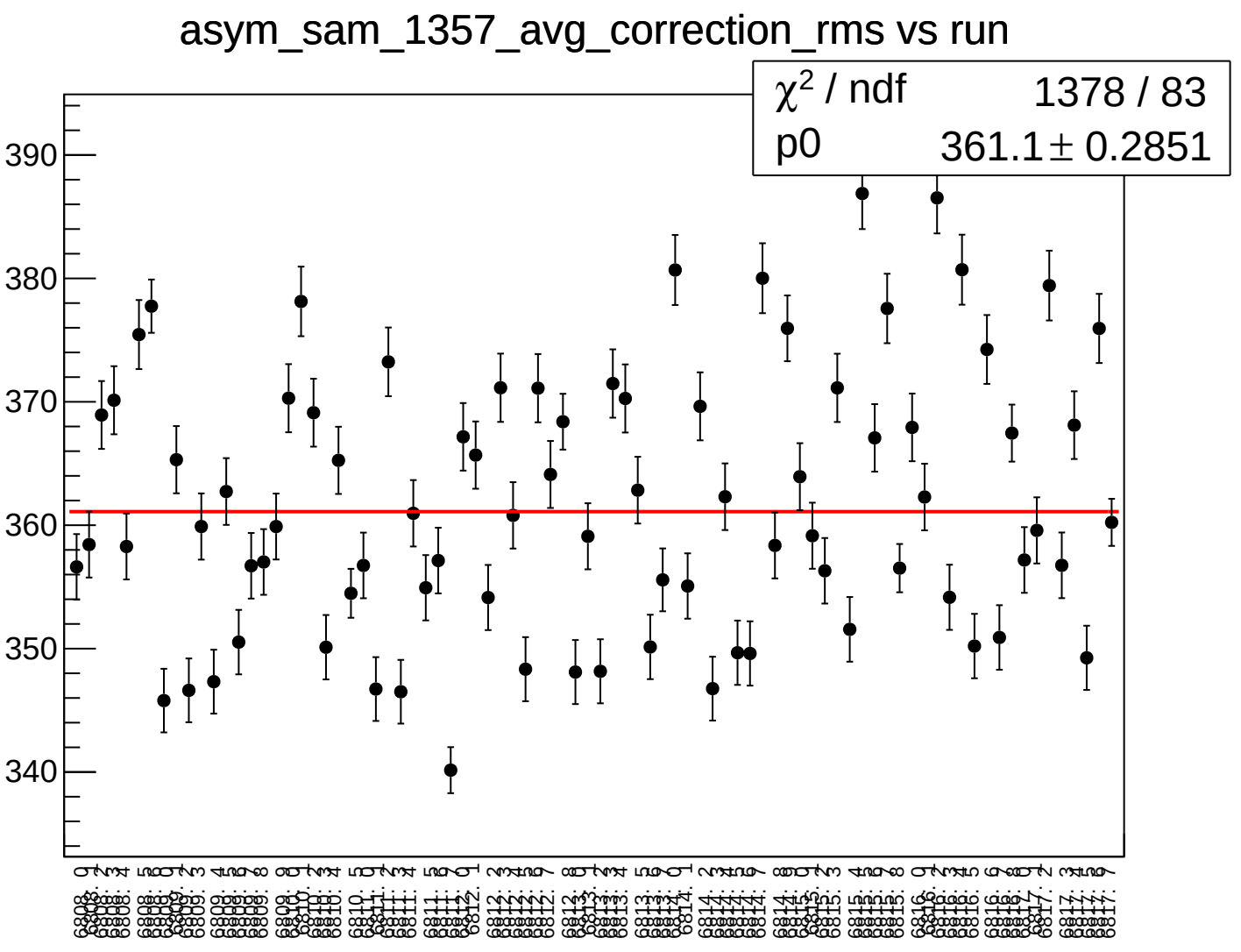

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 81.72 / 83
p0 69.65 ± 61.4
pull
Entries 84
Mean −150.2
Std Dev 202.9

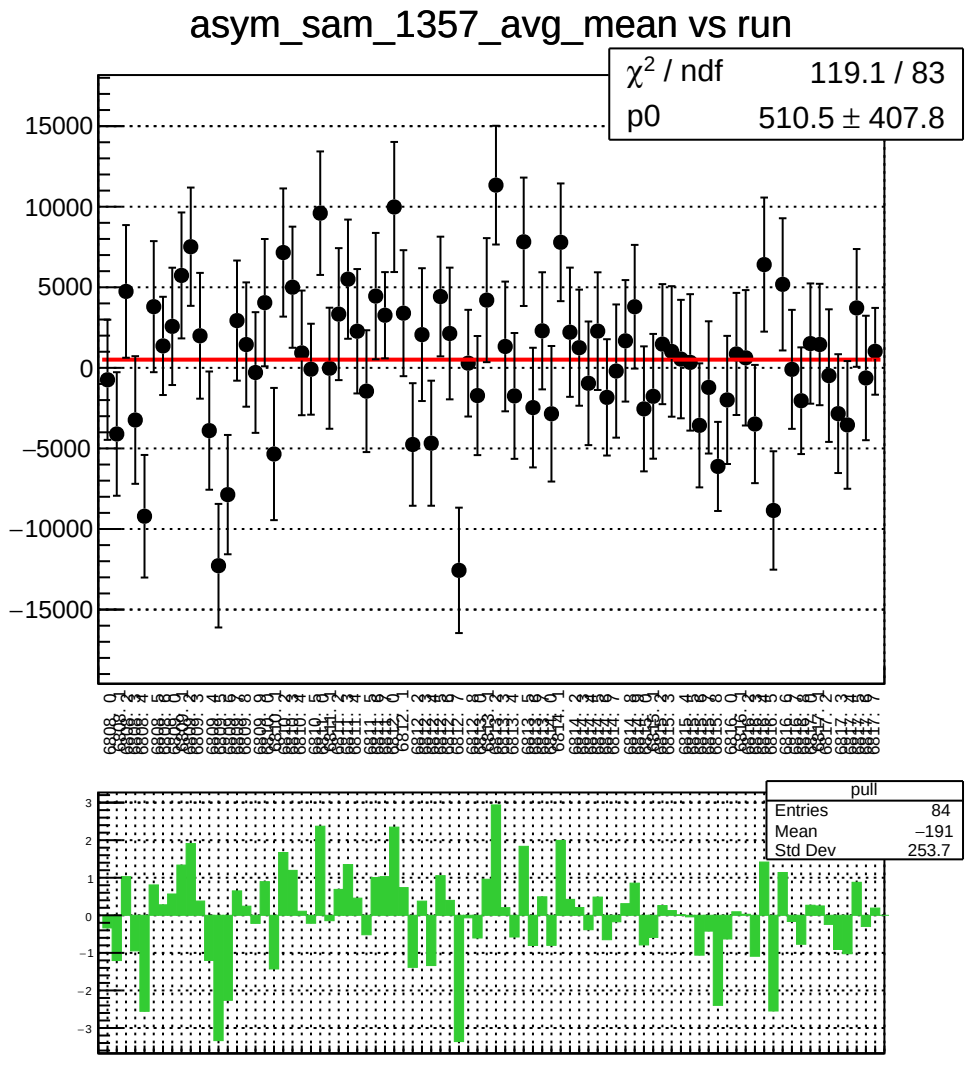

pull1D
Entries 84
Mean 0.01884
Std Dev 0.9862

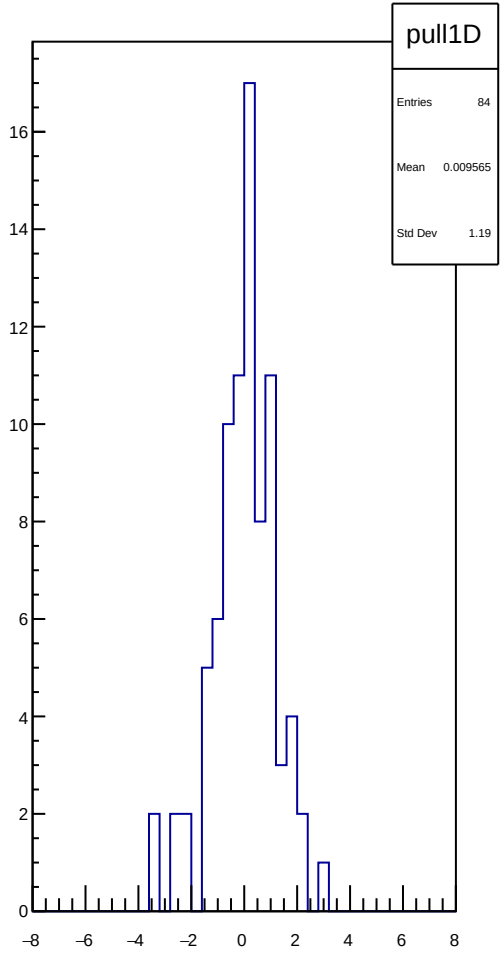

dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 9313 / 83
p0 54.86 ± 0.04341
70
65
60
55
50
45

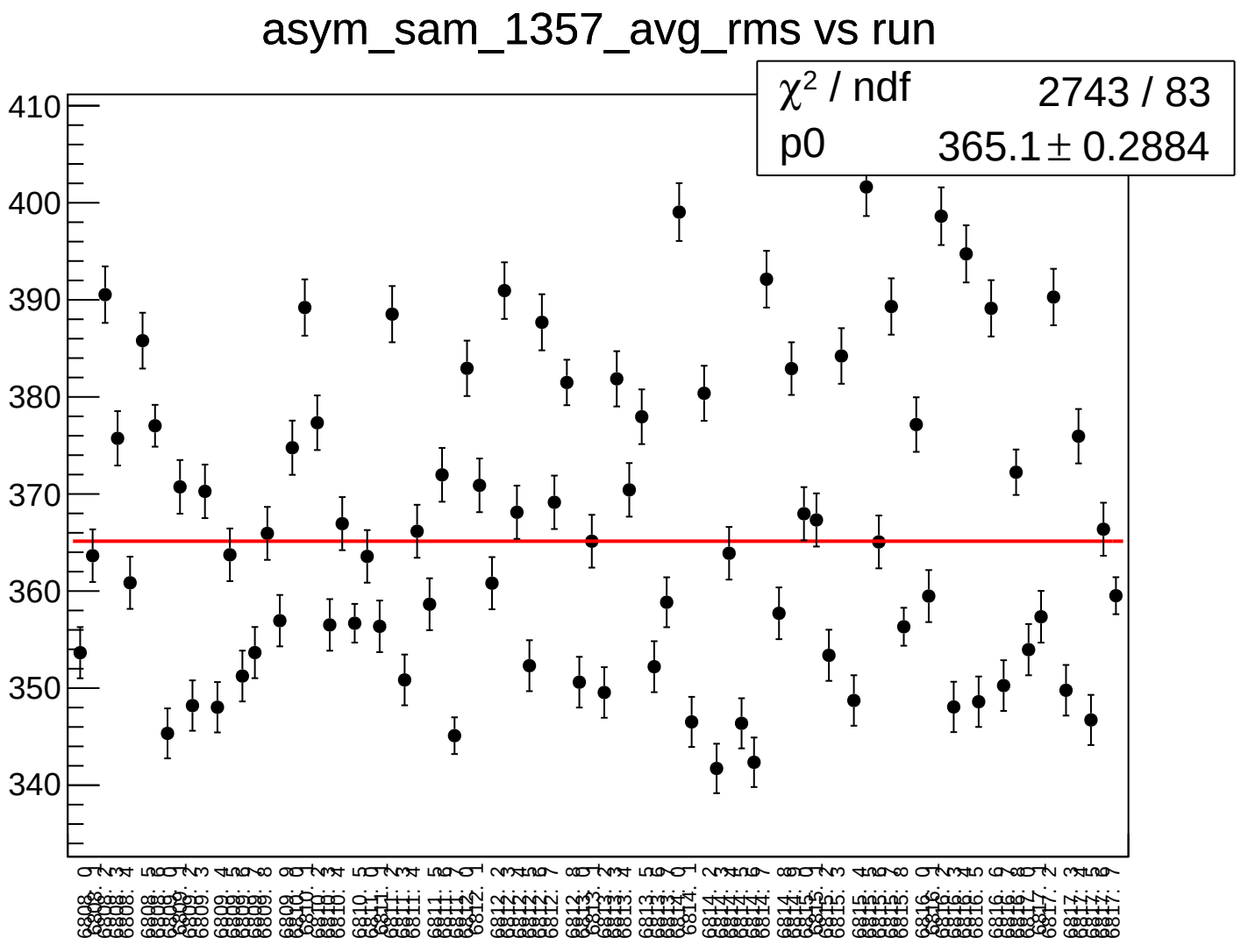

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 115.3 / 83
p0 −568.6 ± 403.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −300.8
Std Dev 371.1
3
2
1
0
−1
−2
−3

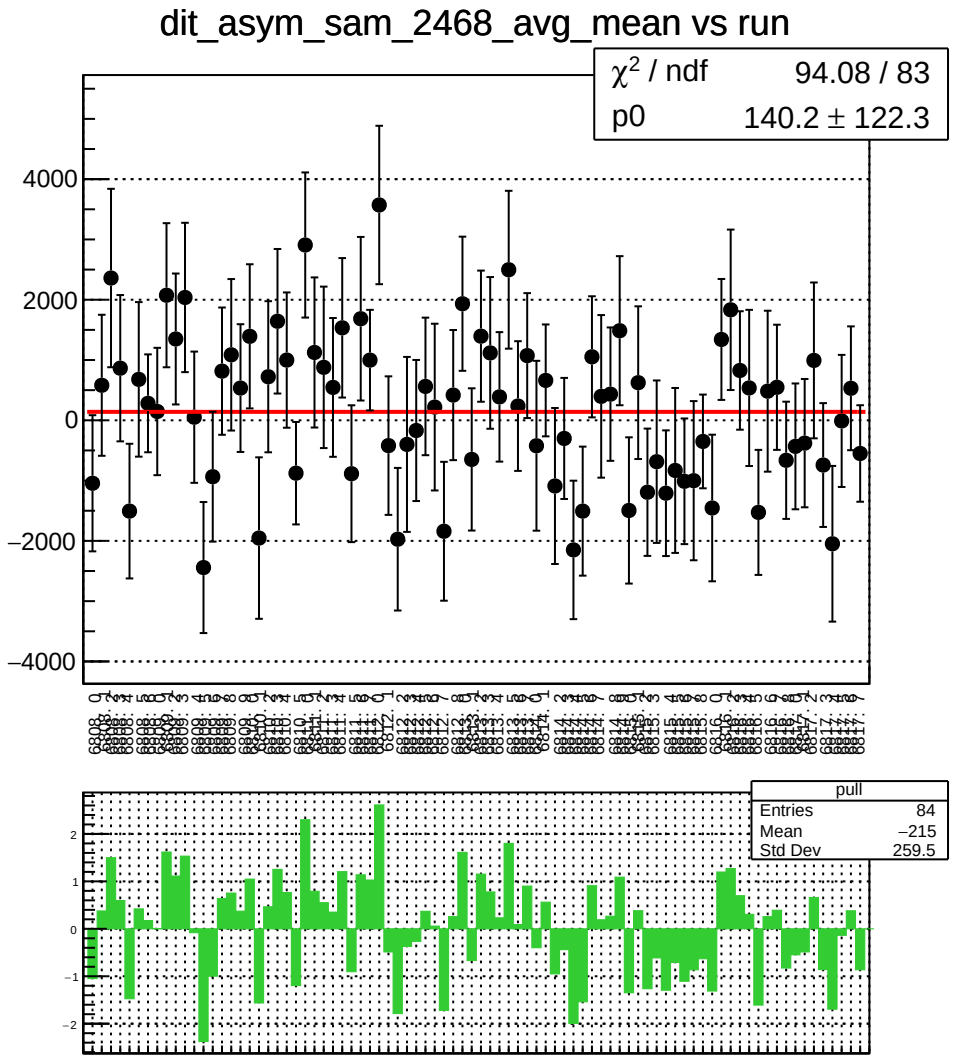

pull1D
Entries 84
Mean −0.004577
Std Dev 1.172
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

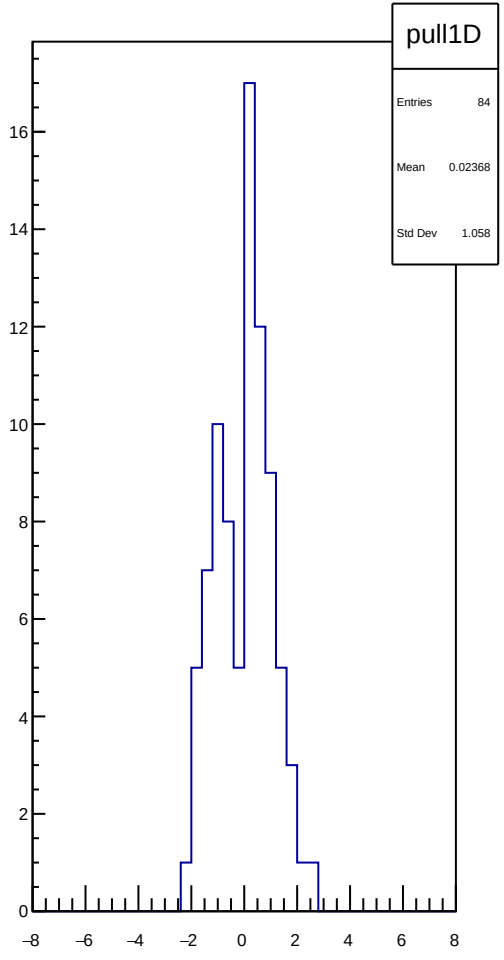

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 1378 / 83
p0 361.1 ± 0.2851
390
380
370
360
350
340

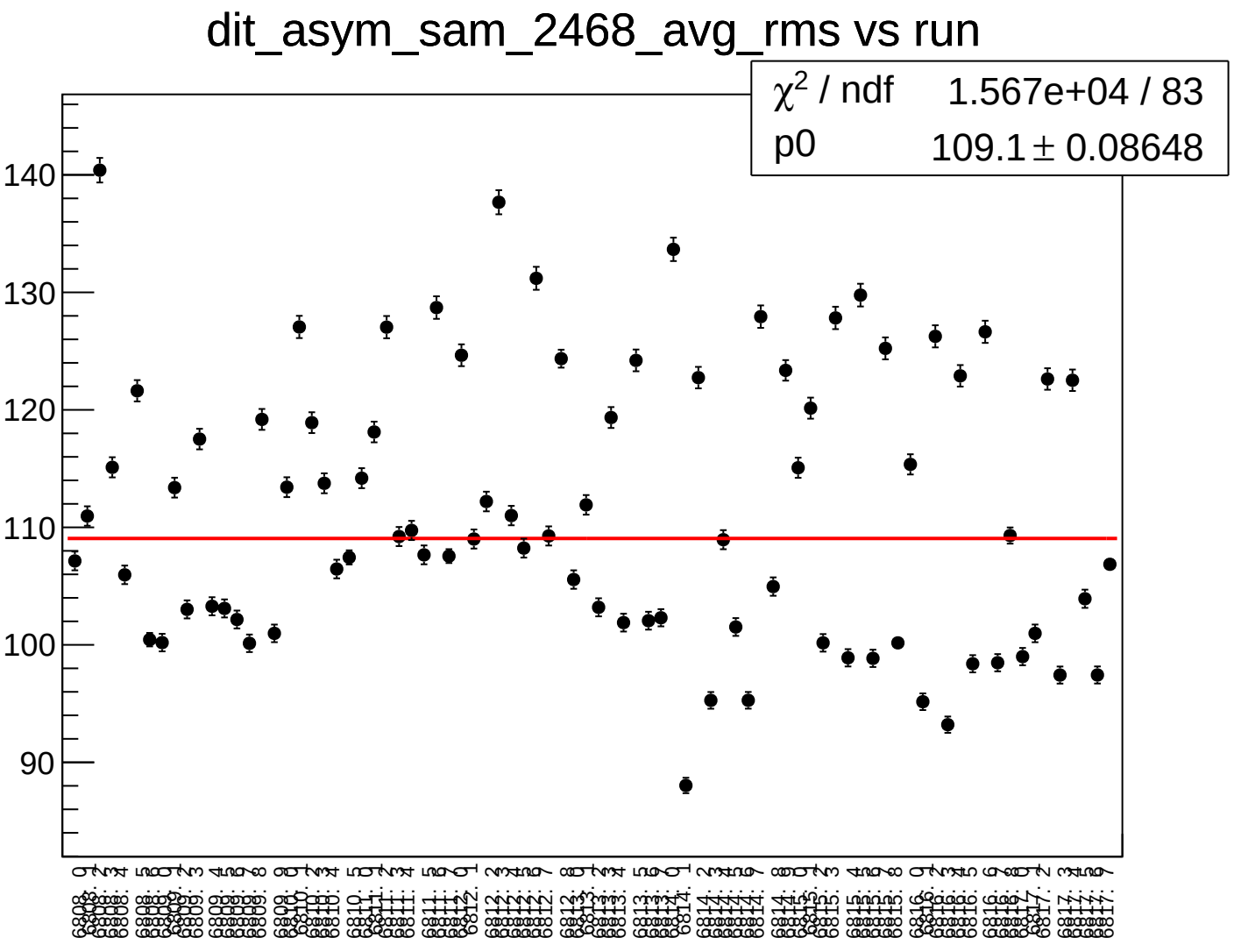

asym_sam_1357_avg_mean vs run
χ² / ndf 119.1 / 83
p0 510.5 ± 407.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 84
Mean −191
Std Dev 253.7
3
2
1
0
−1
−2
−3

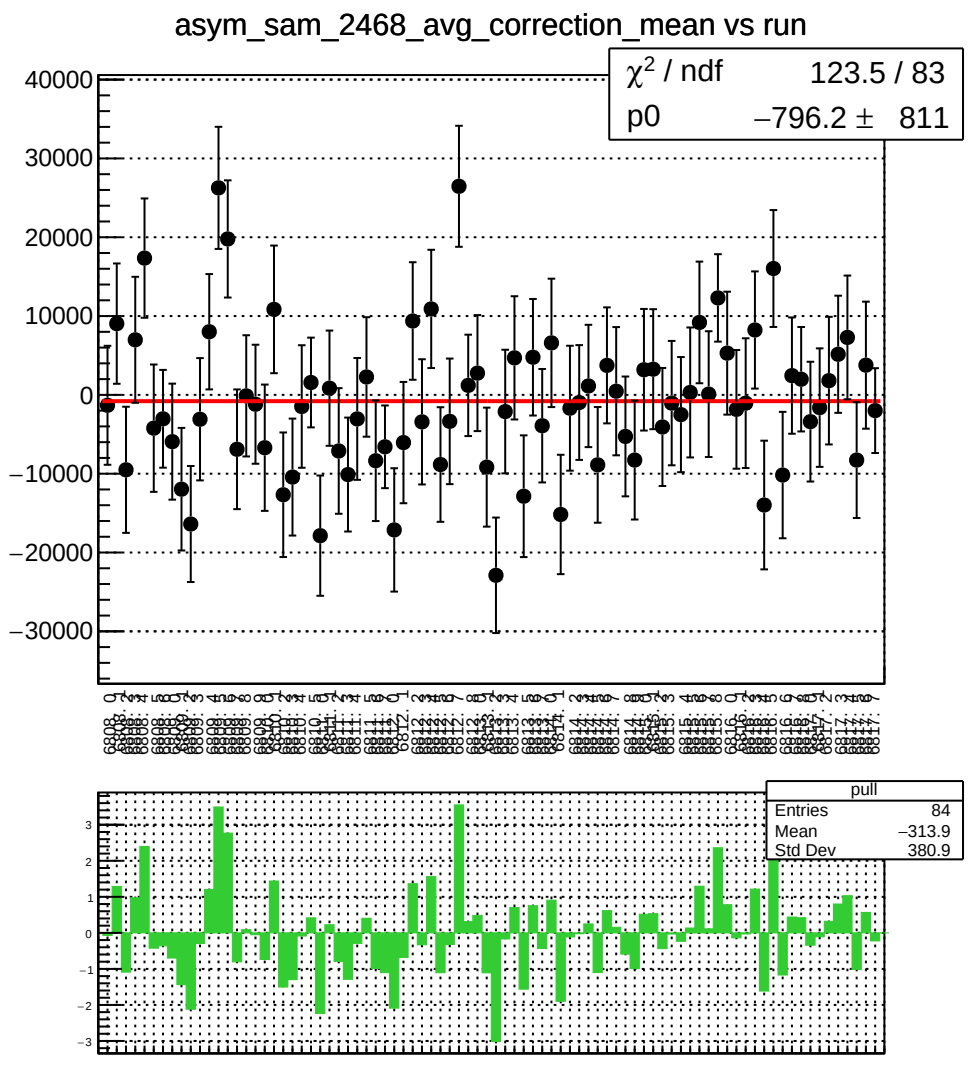

pull1D
Entries 84
Mean 0.009565
Std Dev 1.19
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

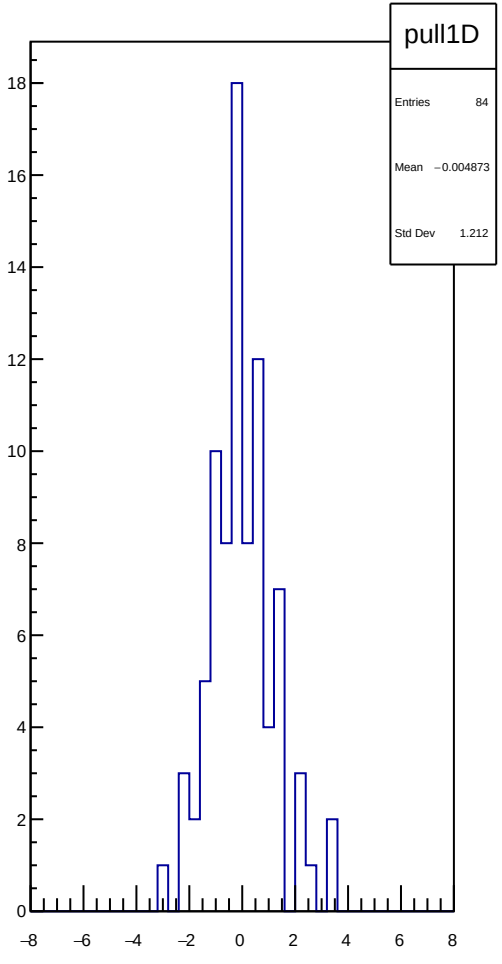

asym_sam_1357_avg_rms vs run
χ² / ndf 2743 / 83
p0 365.1 ± 0.2884
410
400
390
380
370
360
350
340

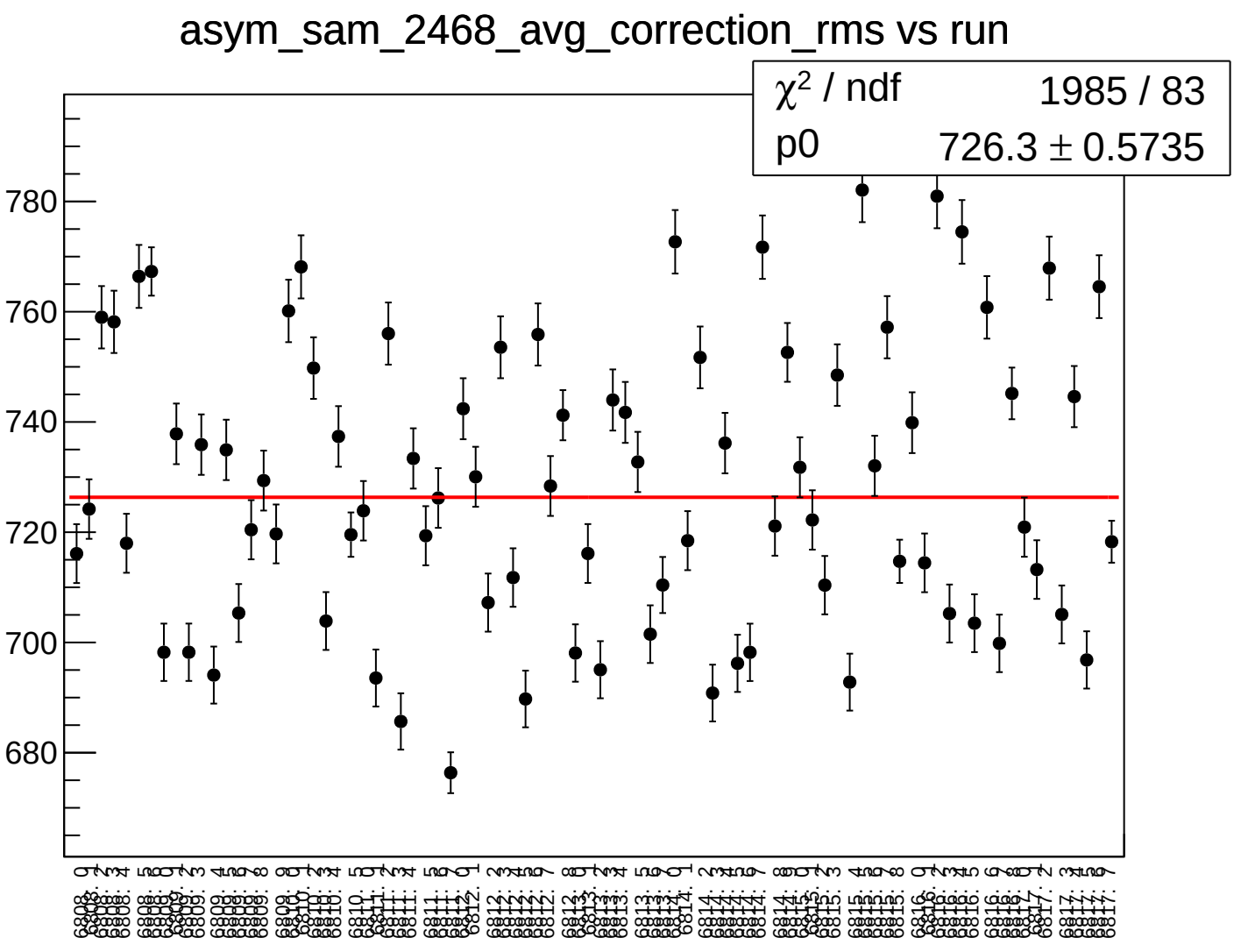

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 94.08 / 83
p0 140.2 ± 122.3
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −215
Std Dev 259.5
2
1
0
−1
−2

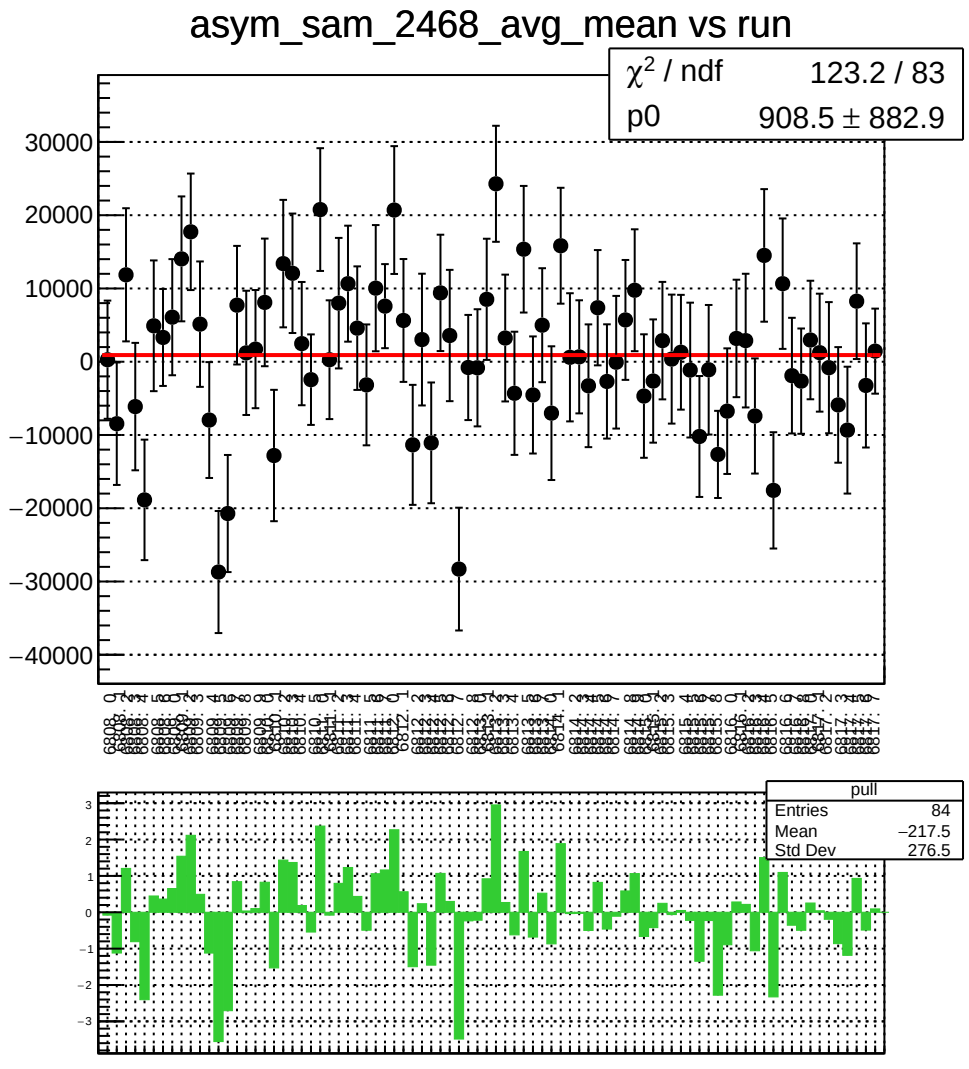

pull1D
Entries 84
Mean 0.02368
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

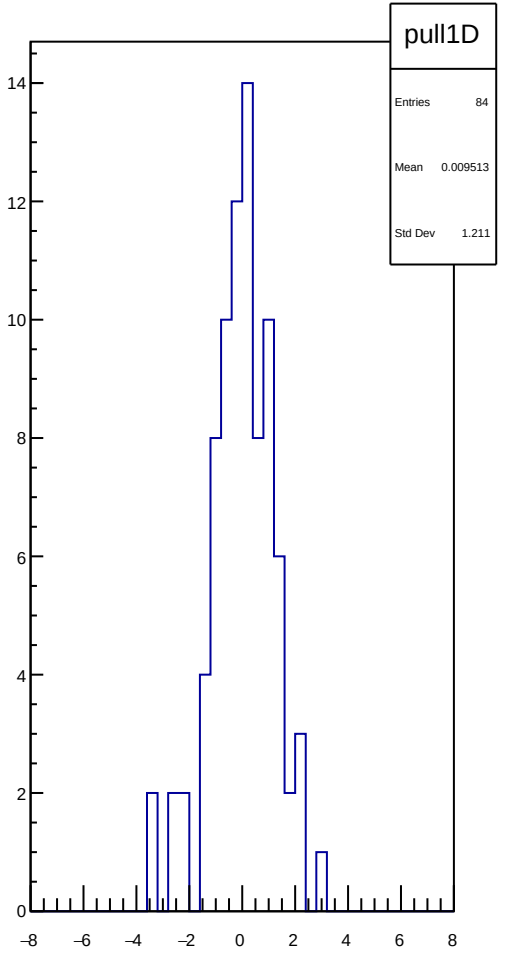

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.567e+04 / 83
p0 109.1 ± 0.08648
140
130
120
110
100
90

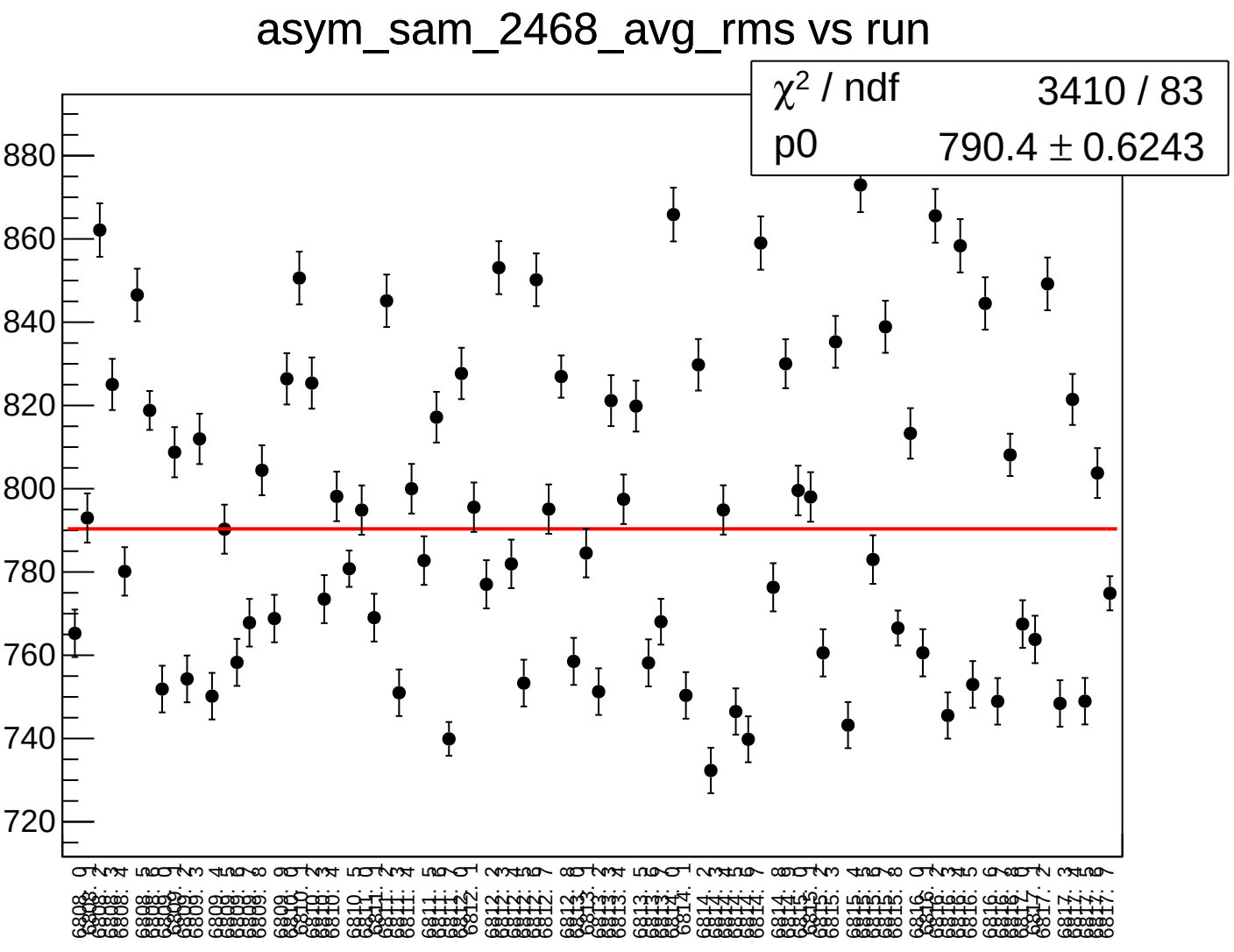

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 123.5 / 83
p0 −796.2 ± 811
pull
Entries 84
Mean −313.9
Std Dev 380.9

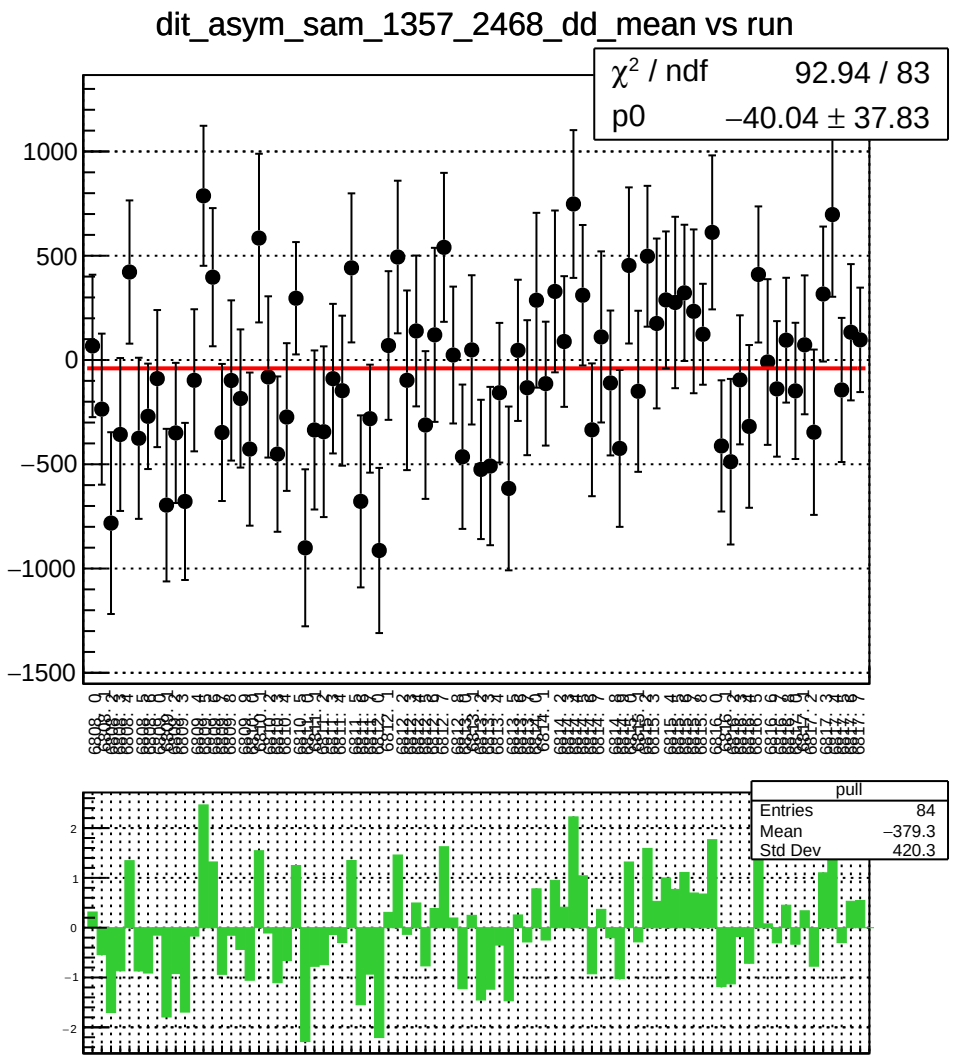

pull1D
Entries 84
Mean −0.004873
Std Dev 1.212

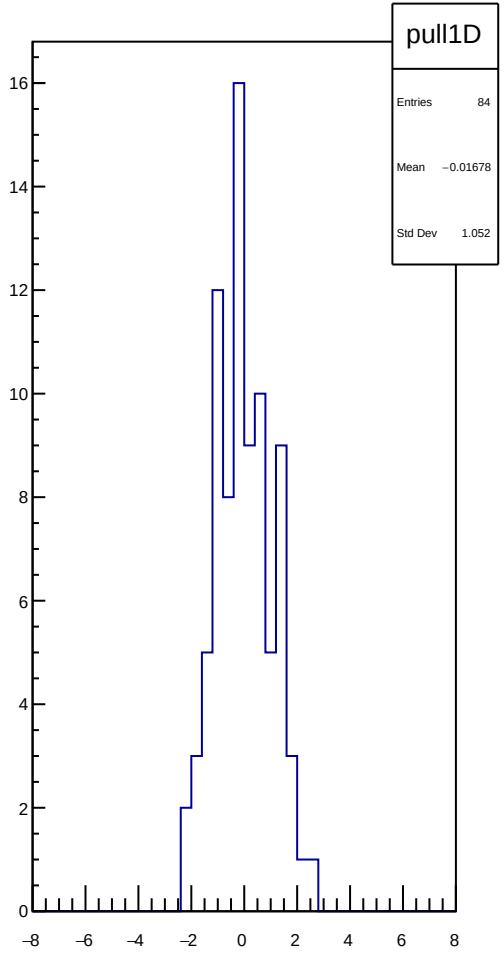

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 1985 / 83
p0 726.3 ± 0.5735
780
760
740
720
700
680

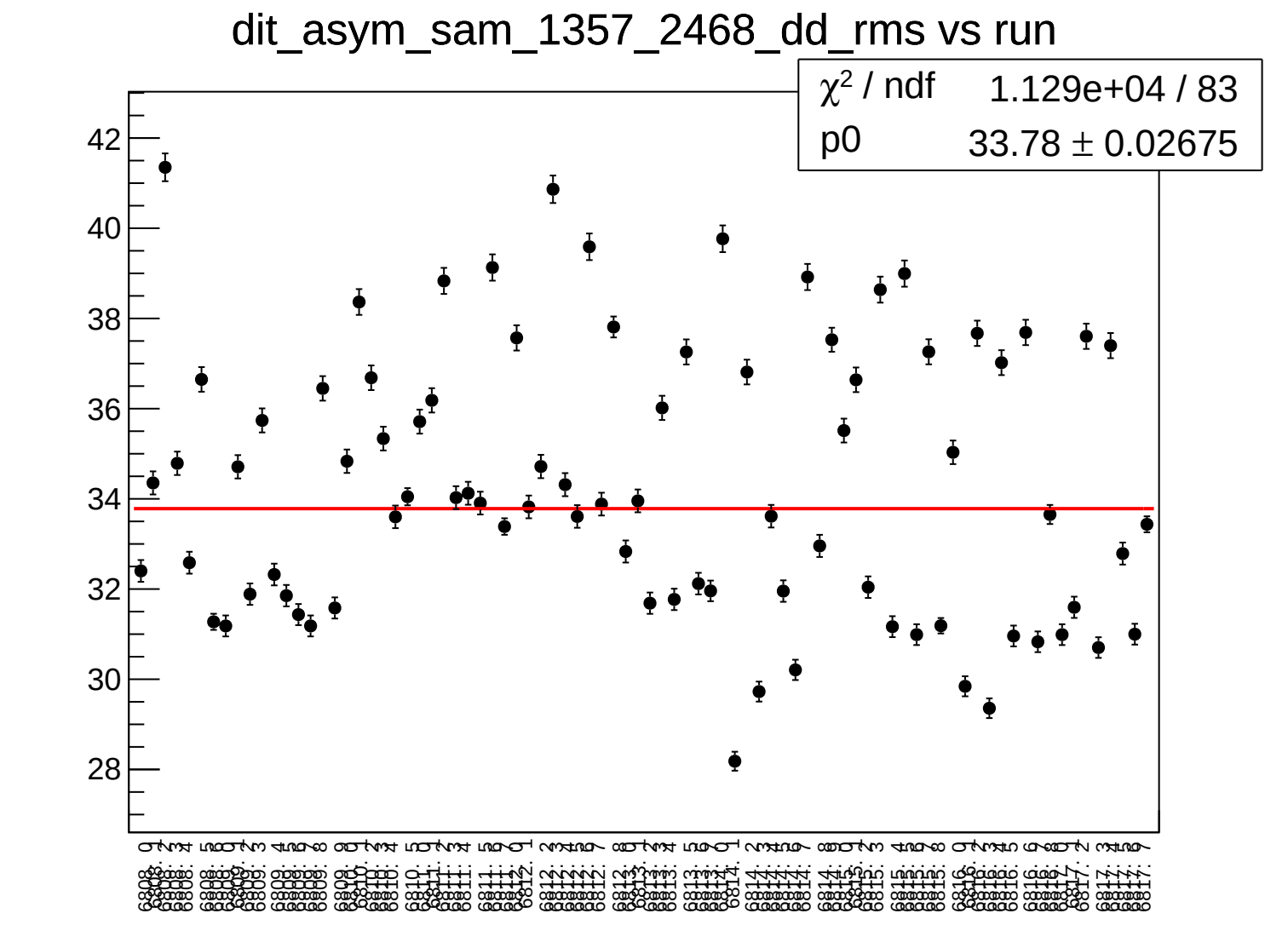

asym_sam_2468_avg_mean vs run
χ² / ndf 123.2 / 83
p0 908.5 ± 882.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 84
Mean −217.5
Std Dev 276.5
3
2
1
0
−1
−2
−3

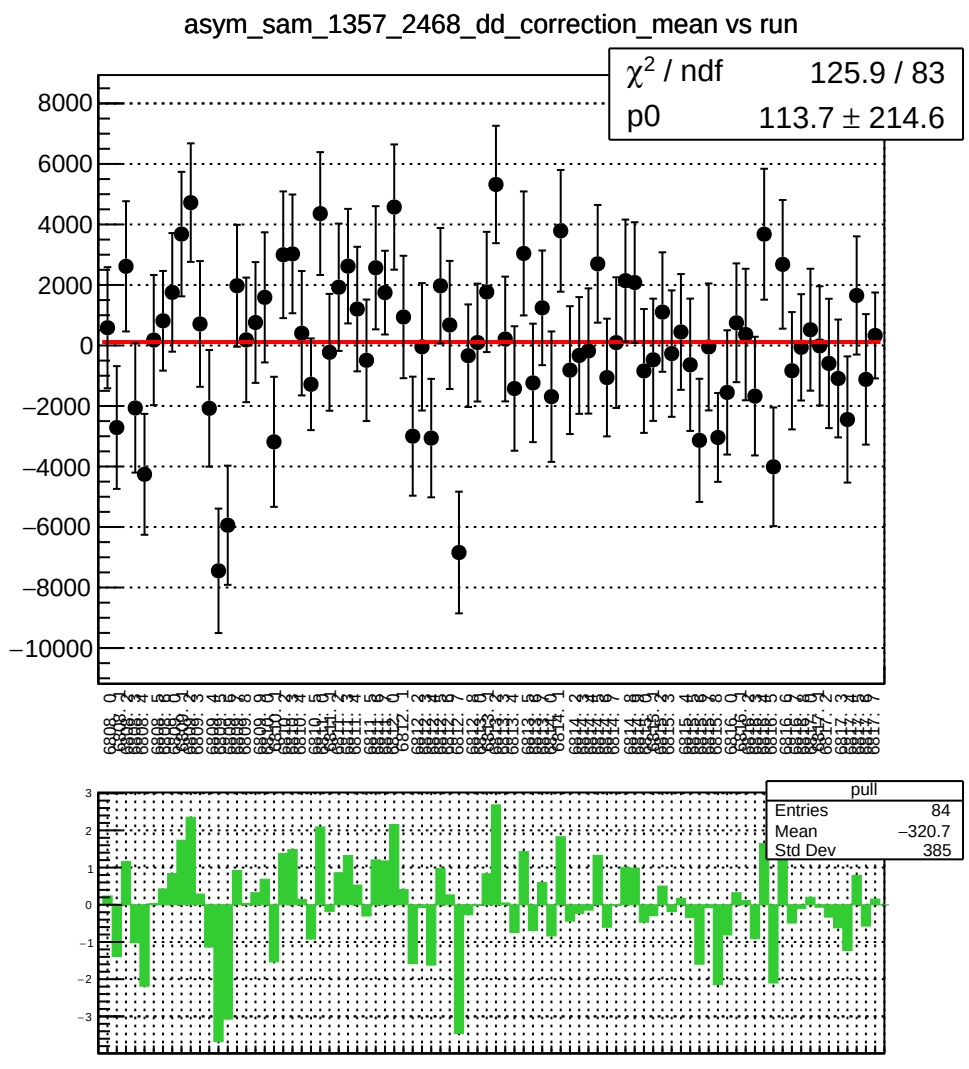

pull1D
Entries 84
Mean 0.009513
Std Dev 1.211
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

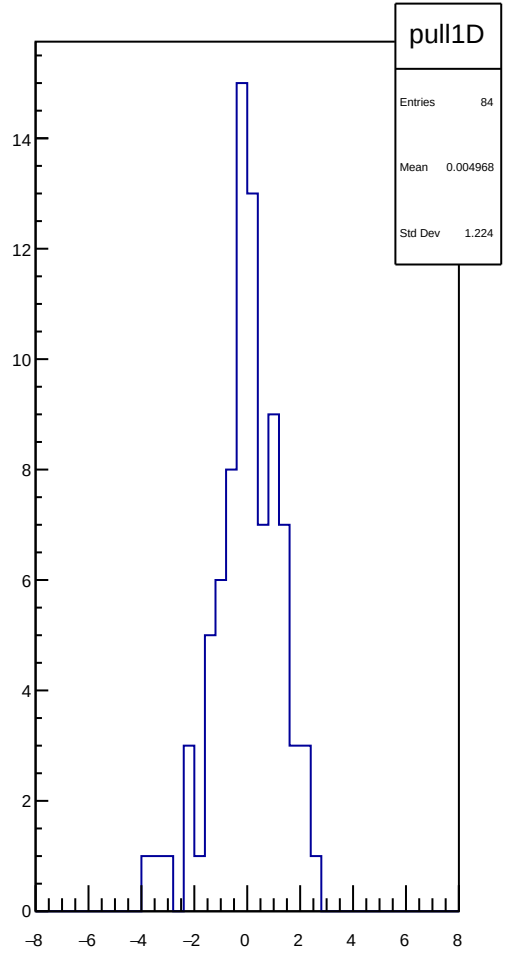

asym_sam_2468_avg_rms vs run
χ^2 / ndf 3410 / 83
p0 790.4 ± 0.6243
880
860
840
820
800
780
760
740
720

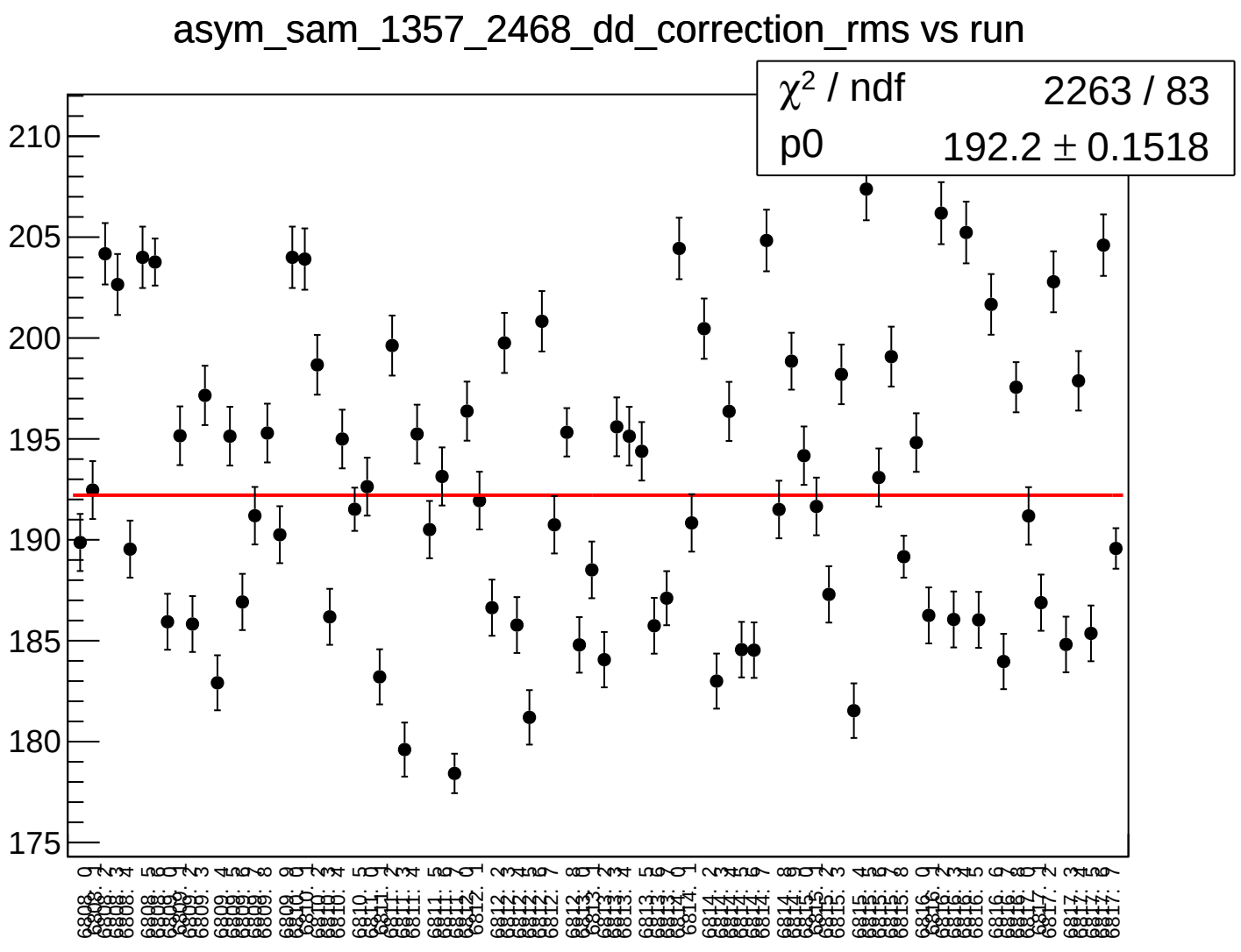

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 92.94 / 83
p0 −40.04 ± 37.83
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean −379.3
Std Dev 420.3
2
1
0
−1
−2

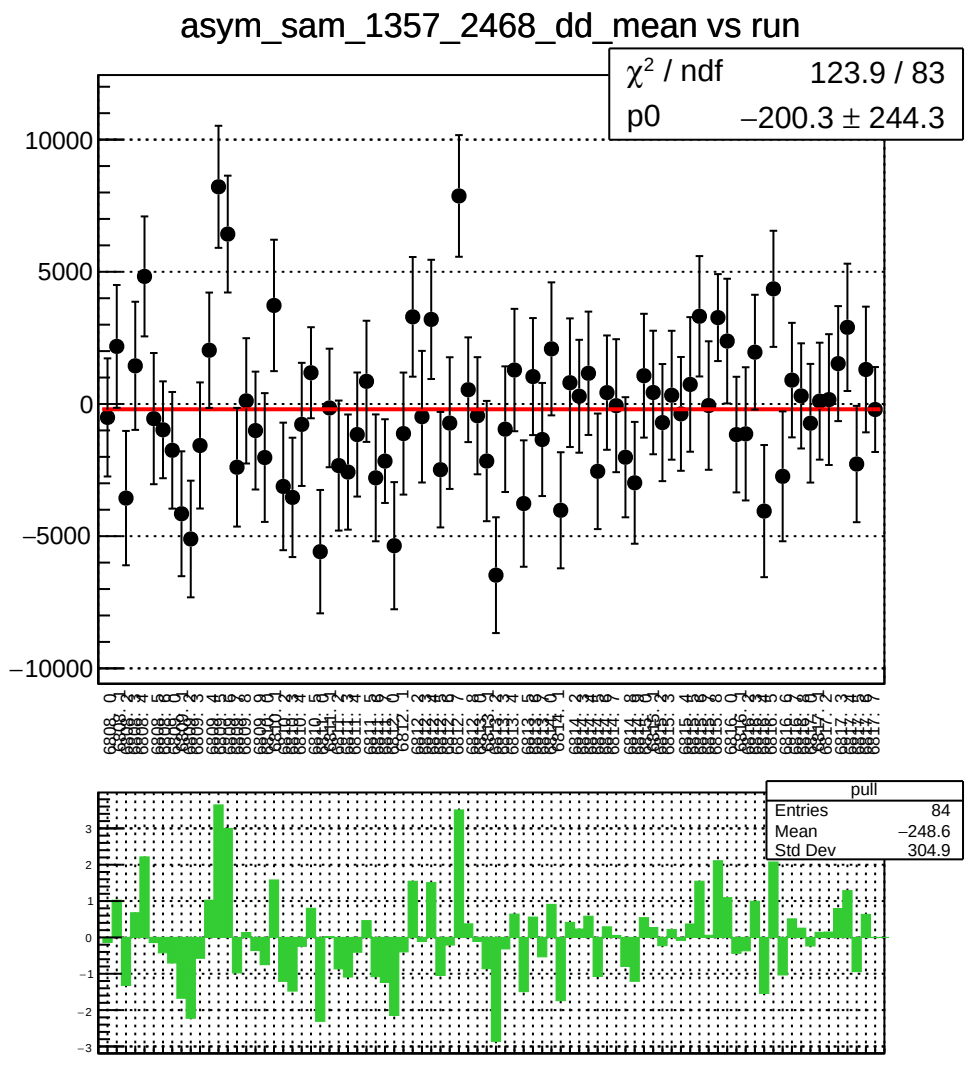

pull1D
Entries 84
Mean −0.01678
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

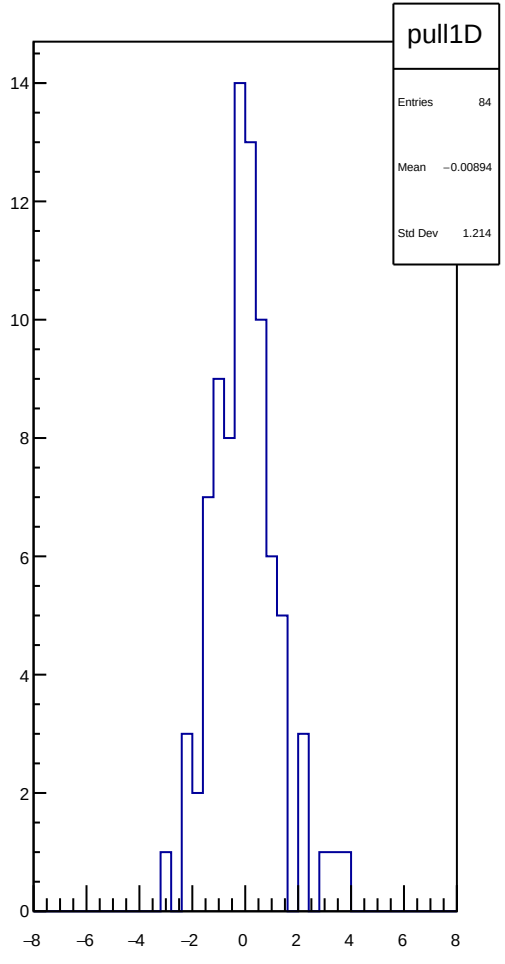

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.129e+04 / 83
p0 33.78 ± 0.02675
42
40
38
36
34
32
30
28

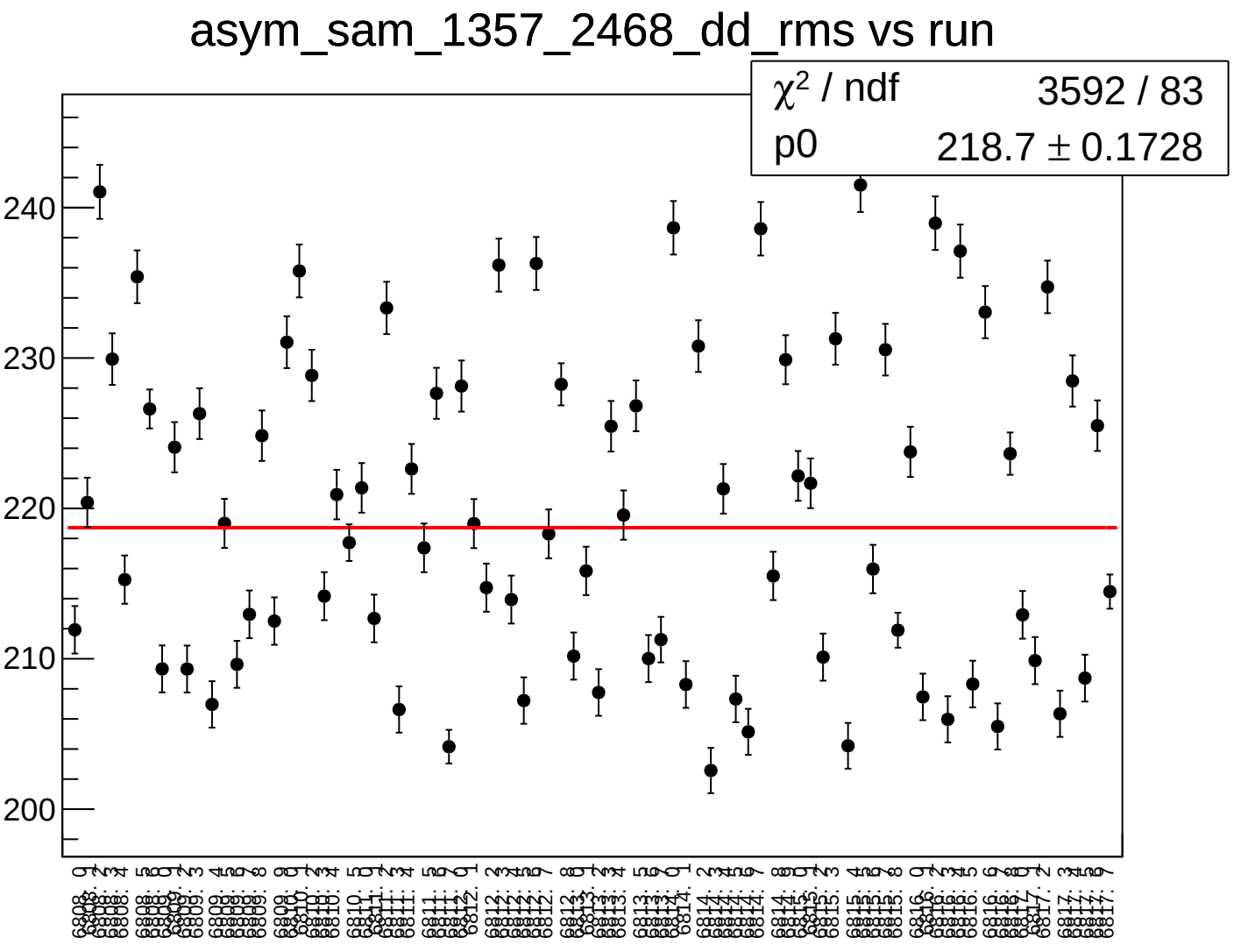

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 125.9 / 83
p0 113.7 ± 214.6
pull
Entries 84
Mean −320.7
Std Dev 385

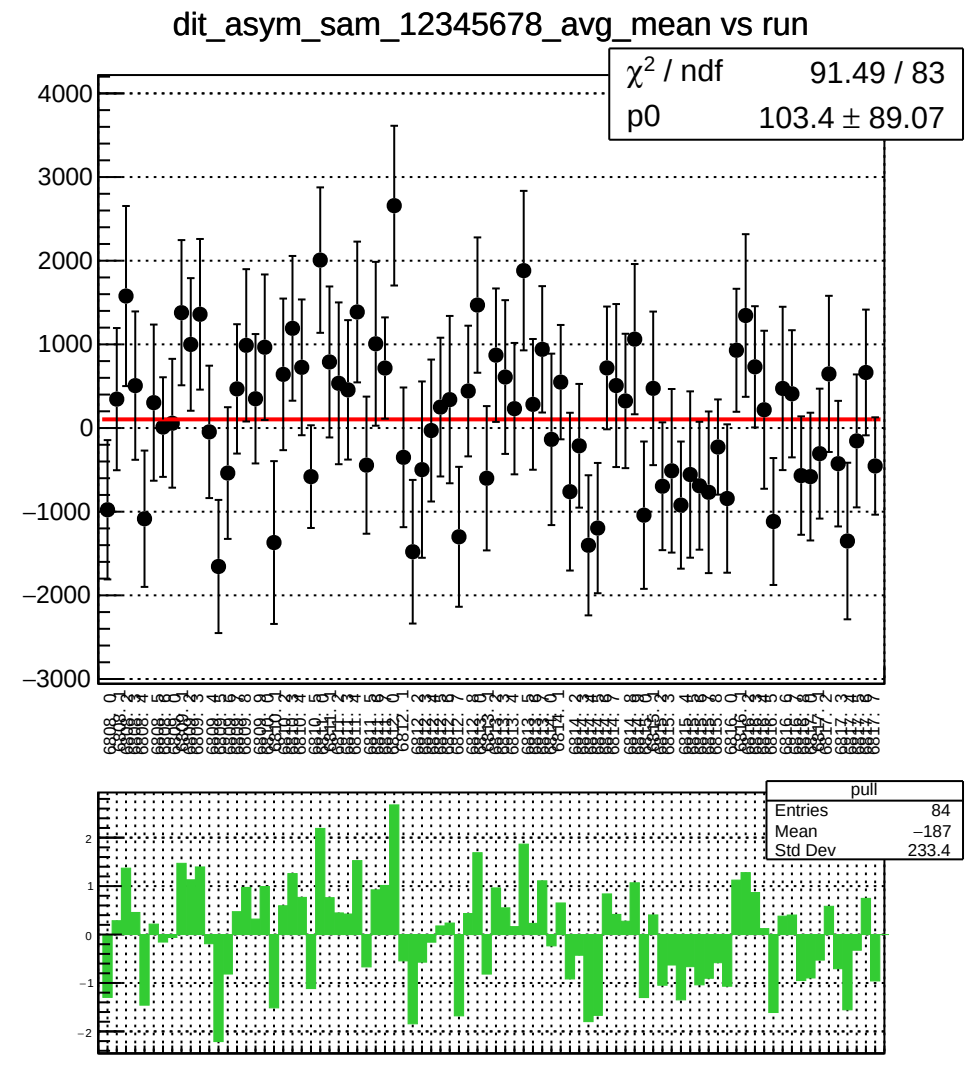

pull1D
Entries 84
Mean 0.004968
Std Dev 1.224

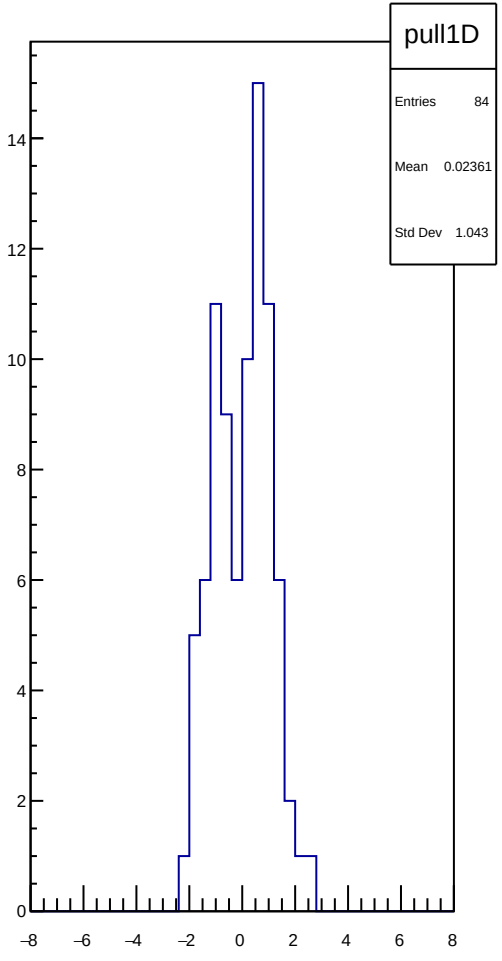

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 2263 / 83
p0 192.2 ± 0.1518
210
205
200
195
190
185
180
175

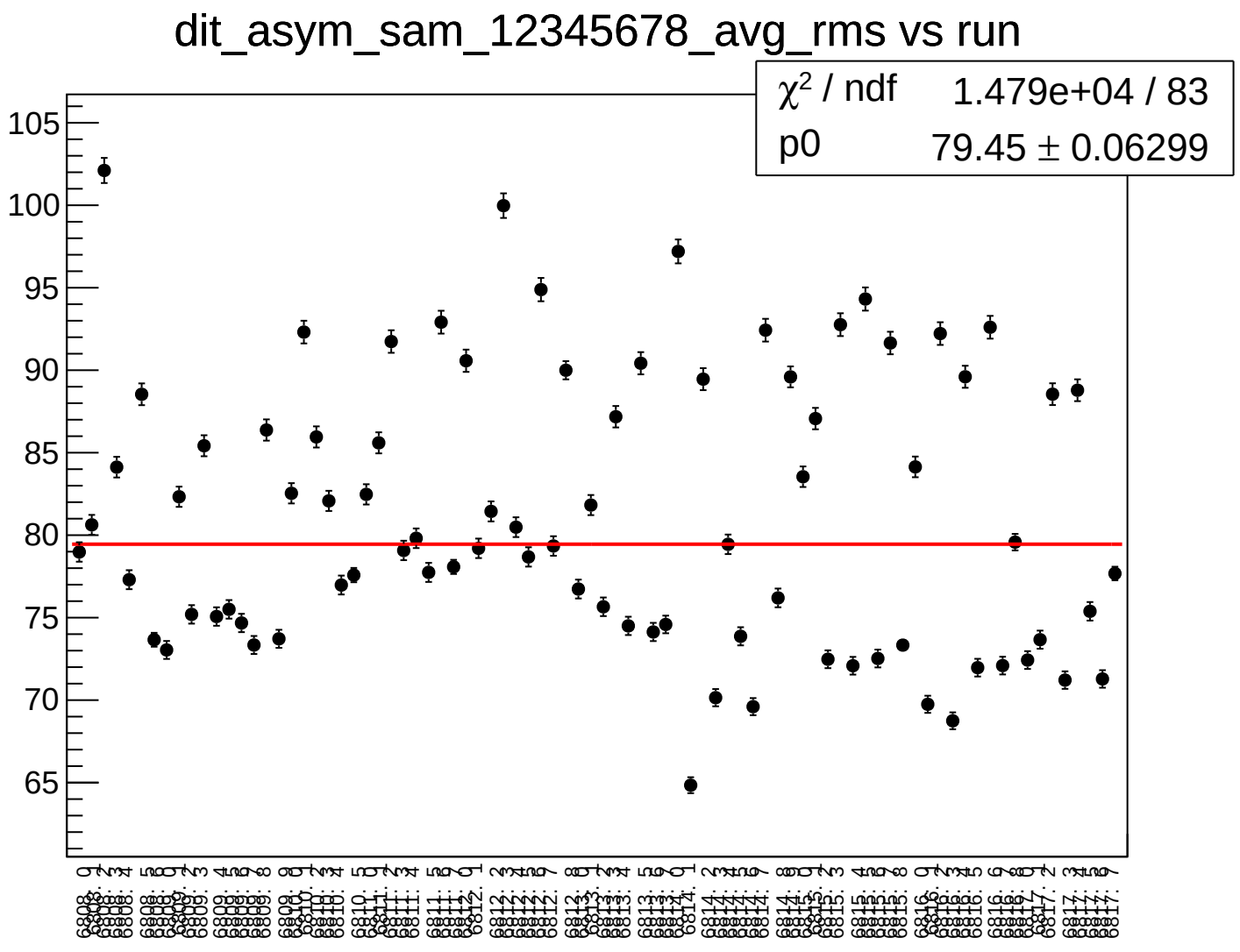

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 123.9 / 83
p0 −200.3 ± 244.3
10000
5000
0
−5000
−10000
pull
Entries 84
Mean −248.6
Std Dev 304.9
3
2
1
0
−1
−2
−3

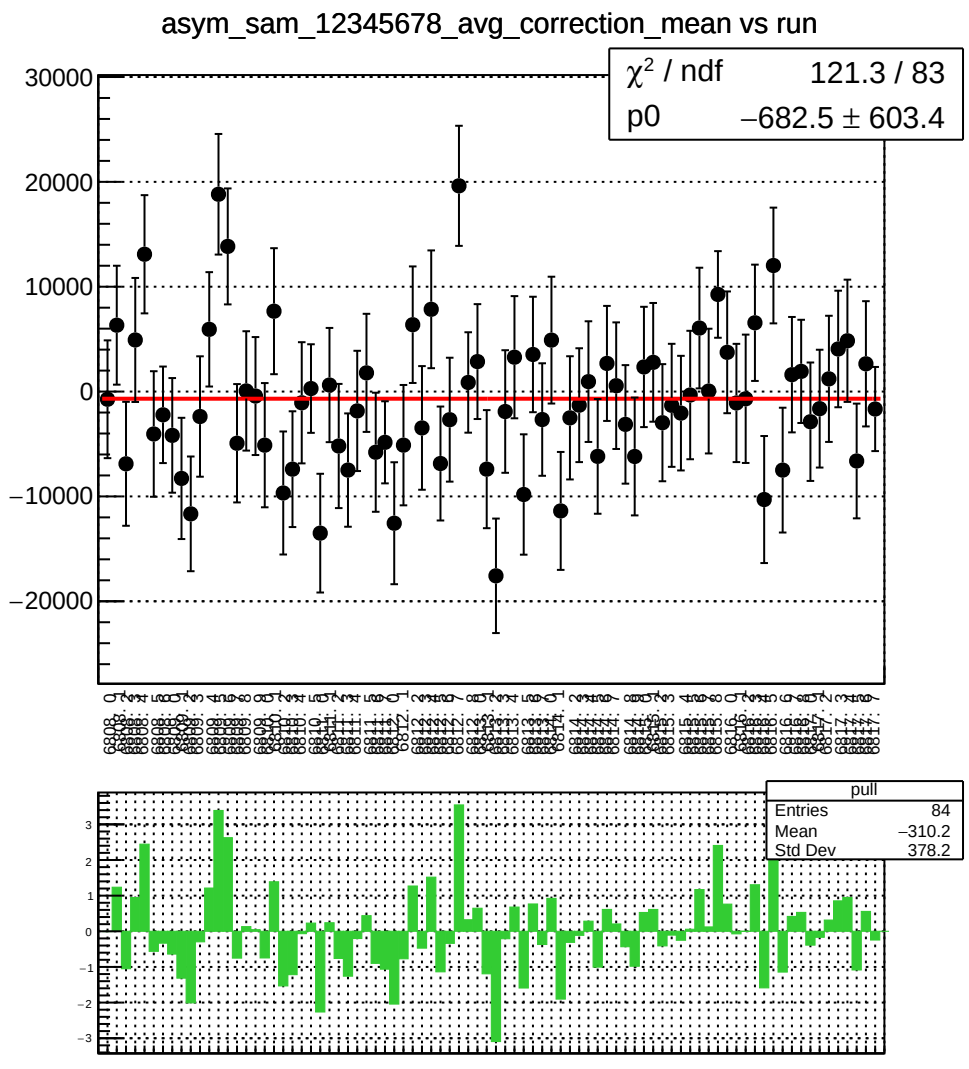

pull1D
Entries 84
Mean −0.00894
Std Dev 1.214
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

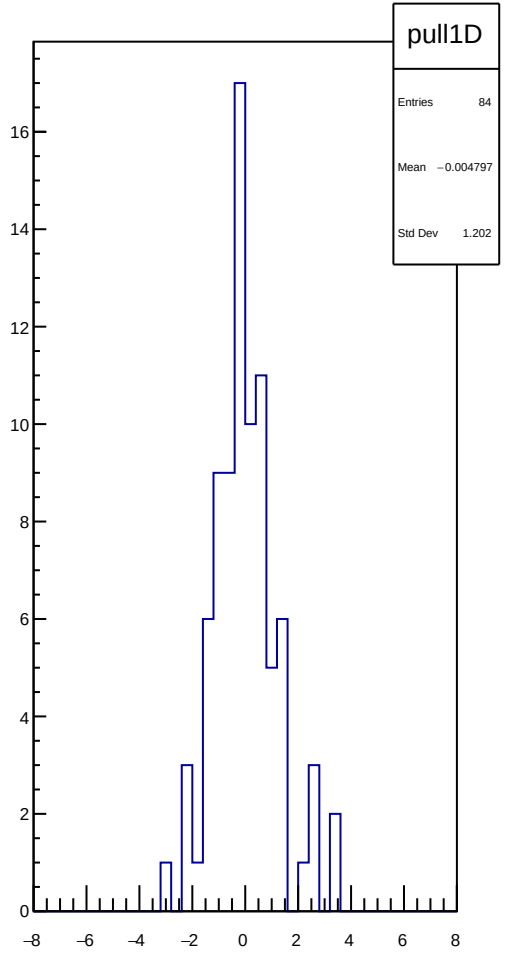

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3592 / 83
p0 218.7 ± 0.1728
240
230
220
210
200

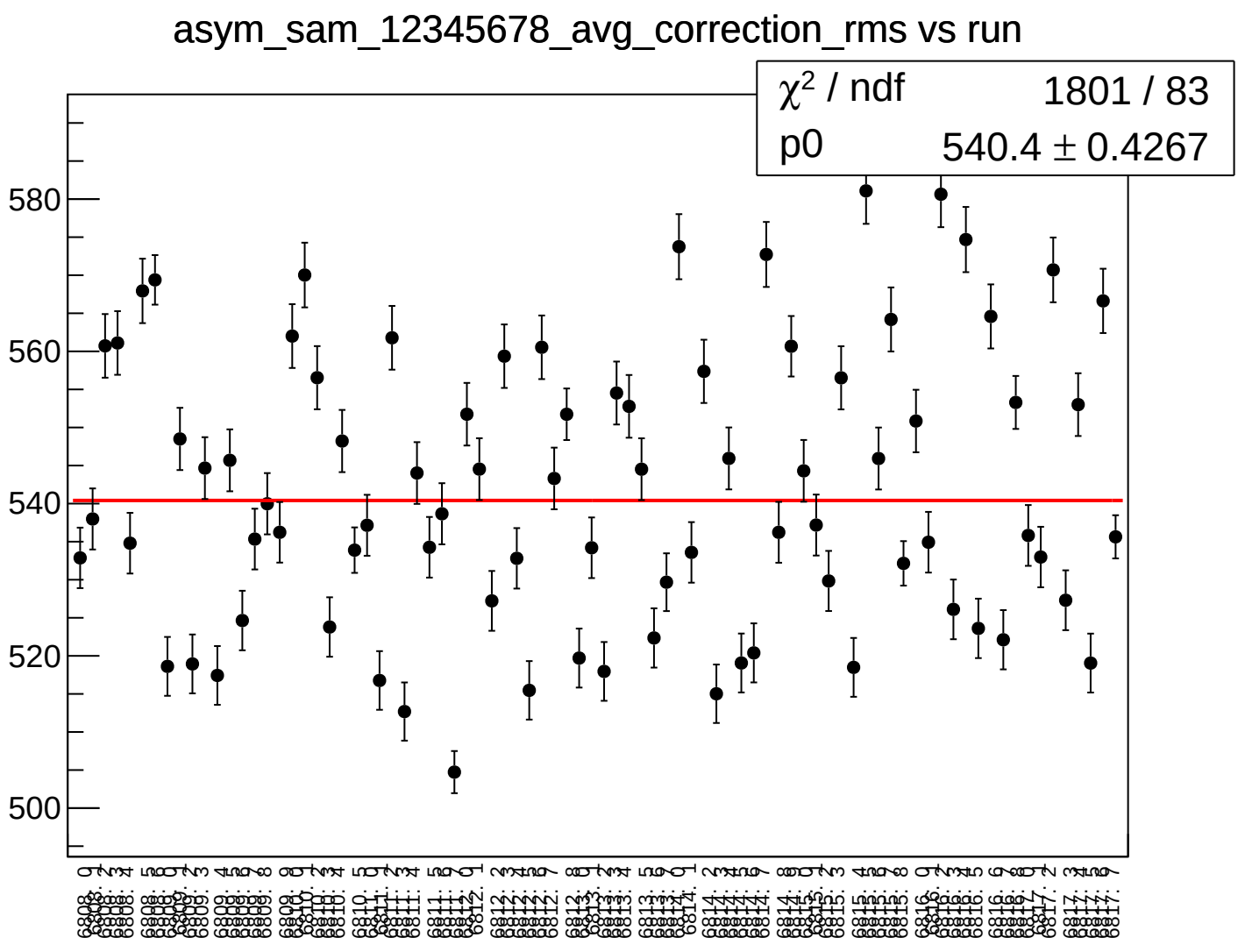

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 91.49 / 83
p0 103.4 ± 89.07
pull
Entries 84
Mean −187
Std Dev 233.4

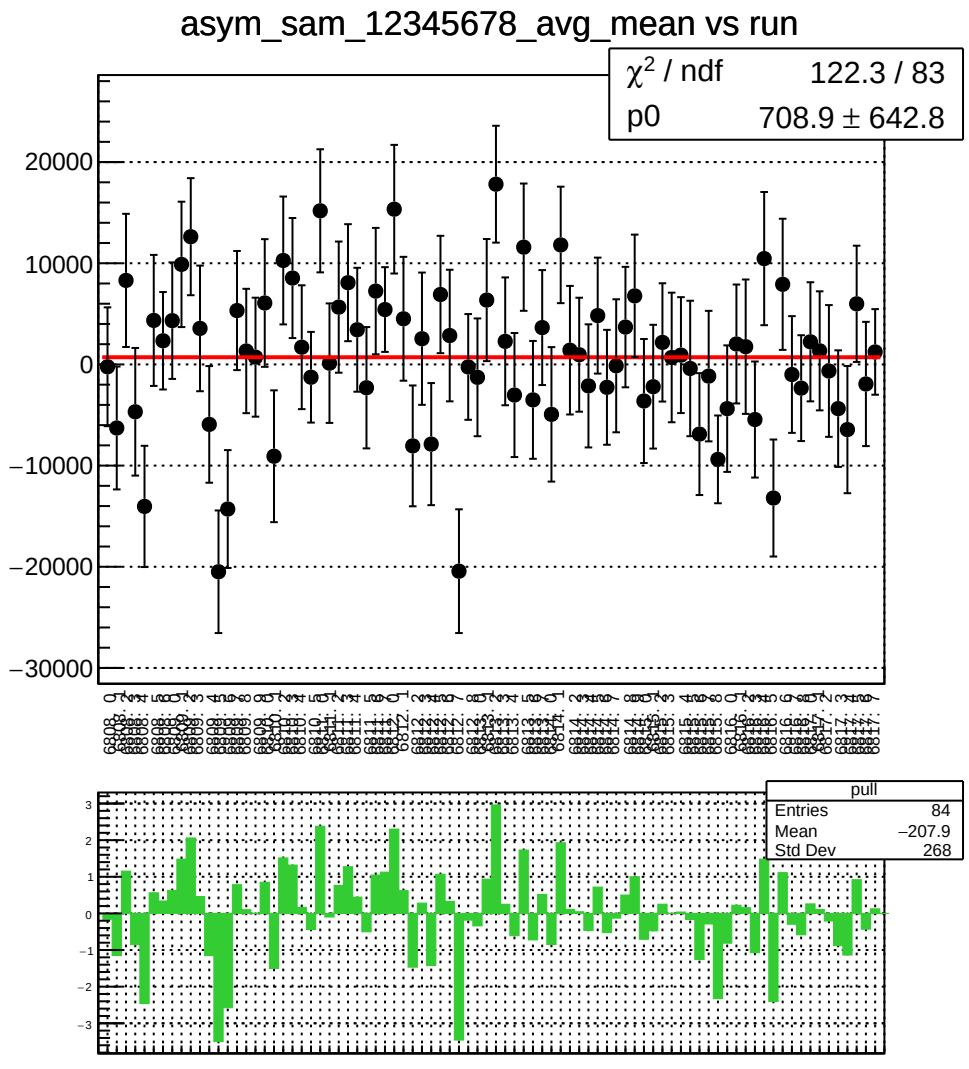

pull1D
Entries 84
Mean 0.02361
Std Dev 1.043

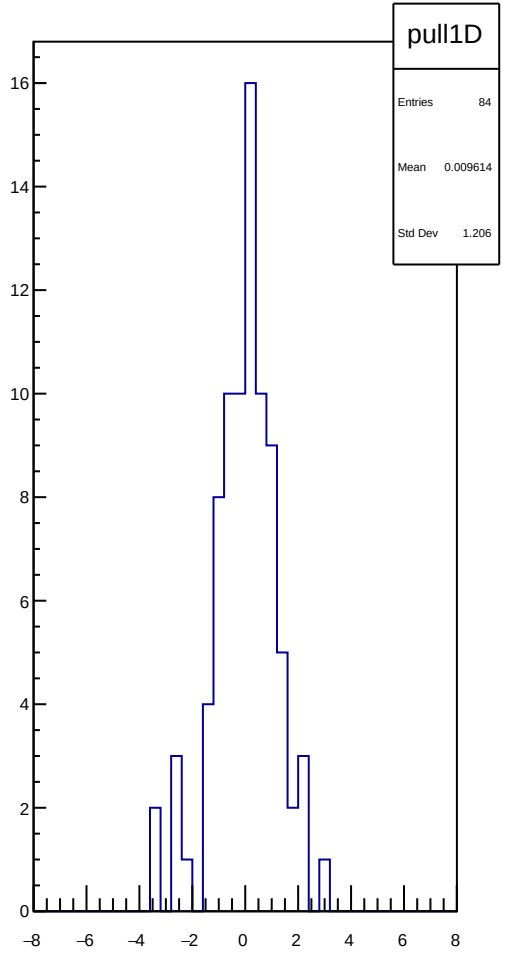

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.479e+04 / 83
p0 79.45 ± 0.06299
105
100
95
90
85
80
75
70
65

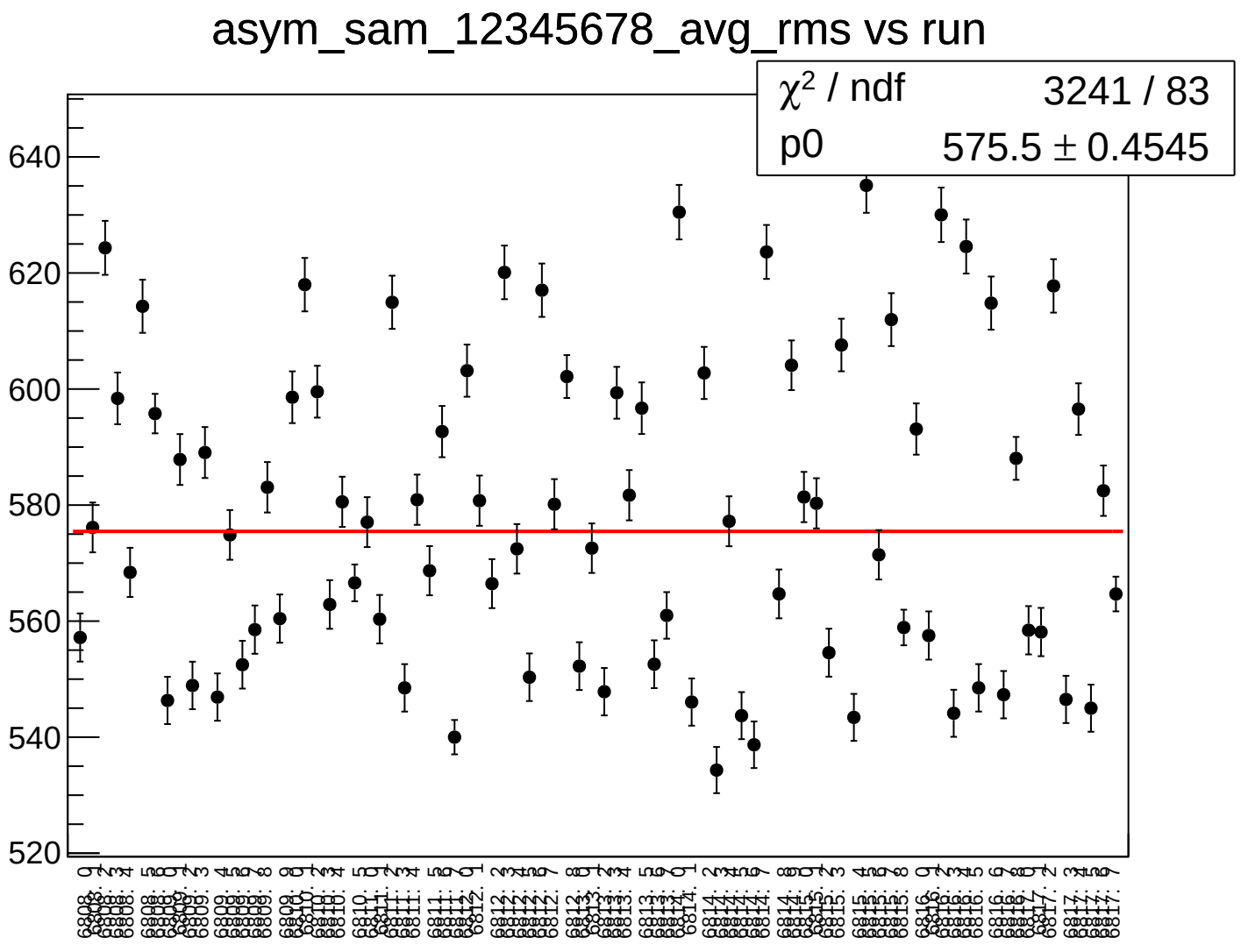

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 121.3 / 83
p0 −682.5 ± 603.4
30000
20000
10000
0
−10000
−20000
pull
Entries 84
Mean −310.2
Std Dev 378.2
3
2
1
0
−1
−2
−3

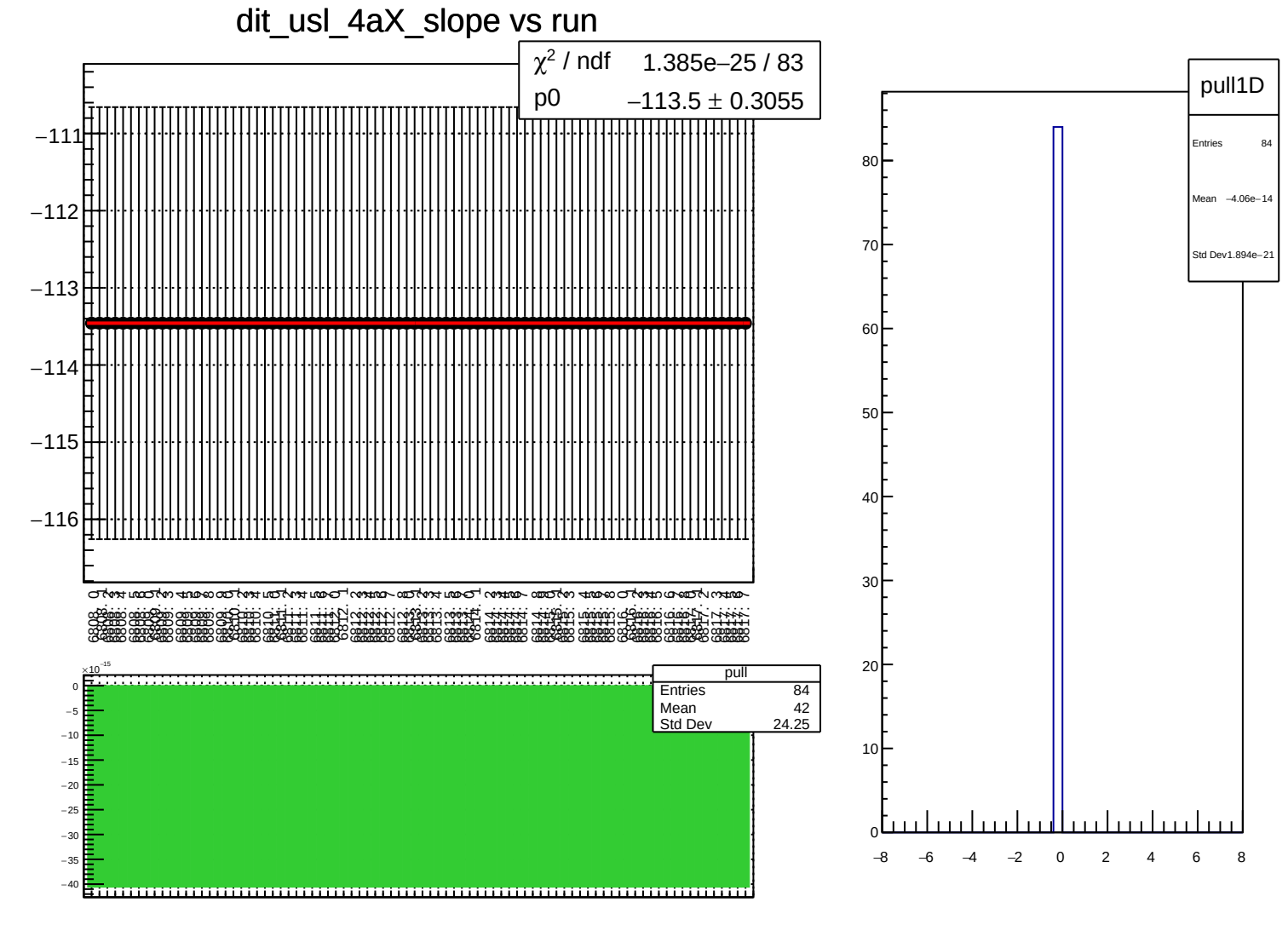

pull1D
Entries 84
Mean −0.004797
Std Dev 1.202
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

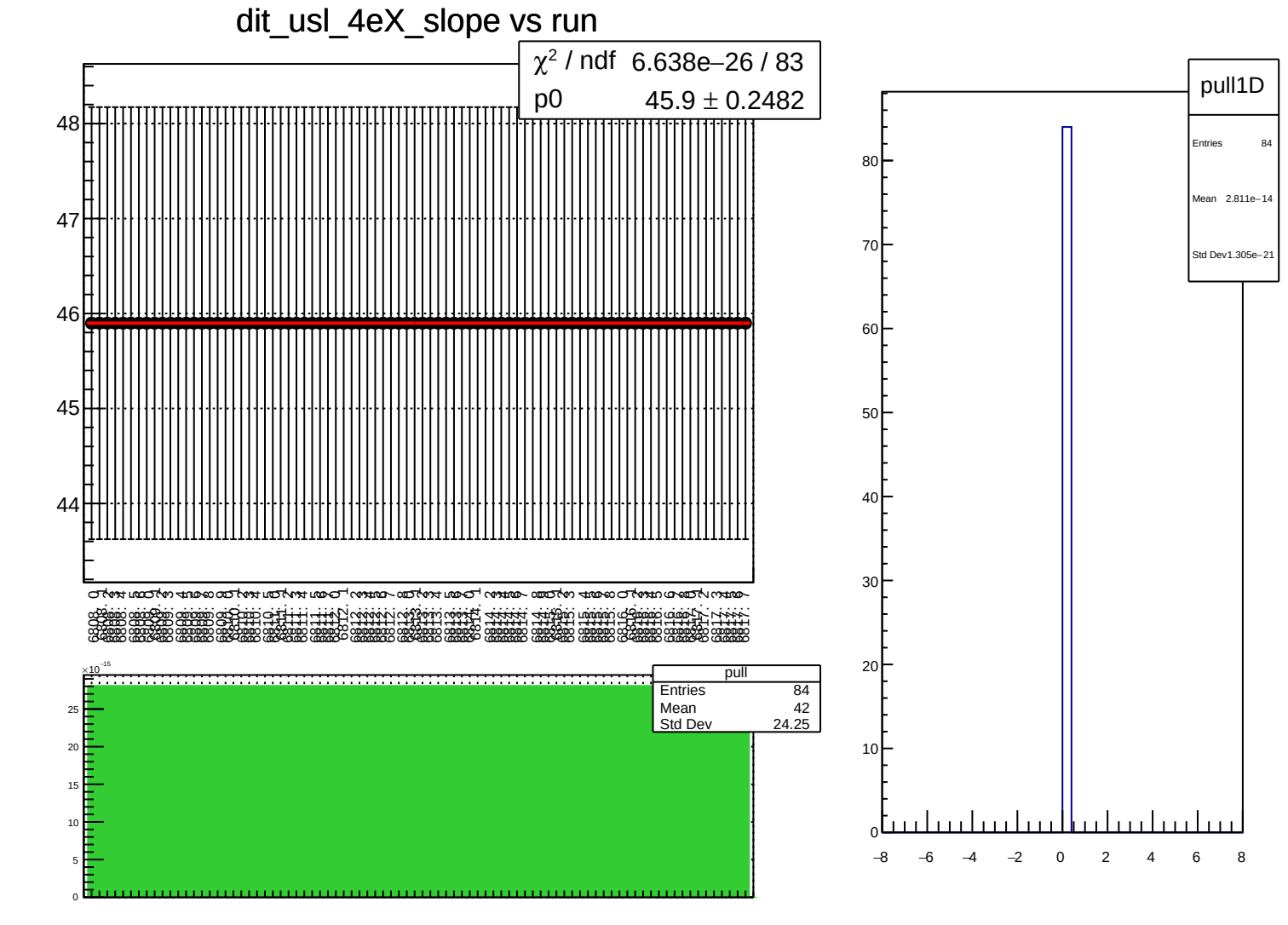

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 1801 / 83
p0 540.4 ± 0.4267
580
560
540
520
500

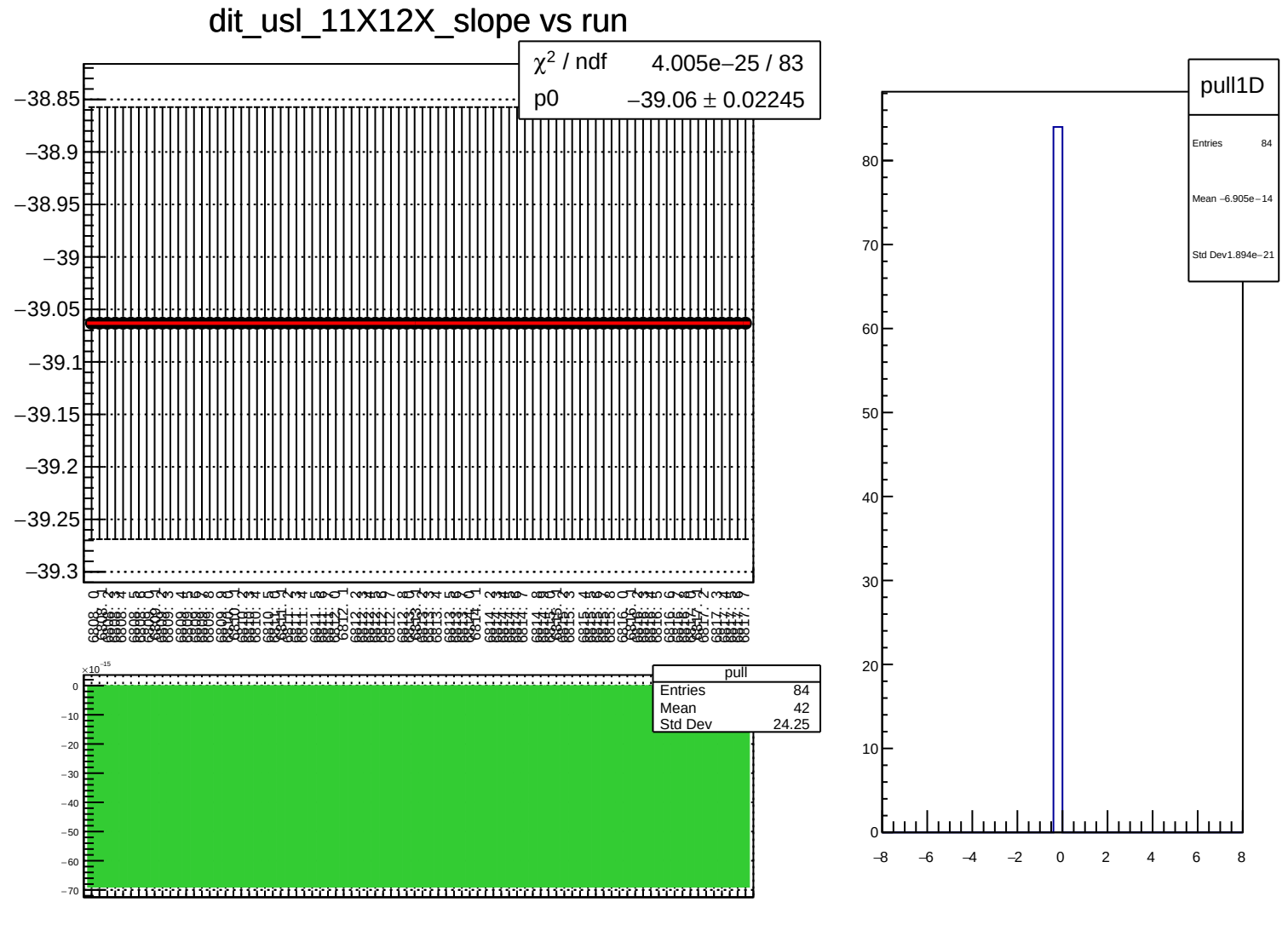

asym_sam_12345678_avg_mean vs run
χ² / ndf 122.3 / 83
p0 708.9 ± 642.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 84
Mean −207.9
Std Dev 268
3
2
1
0
−1
−2
−3

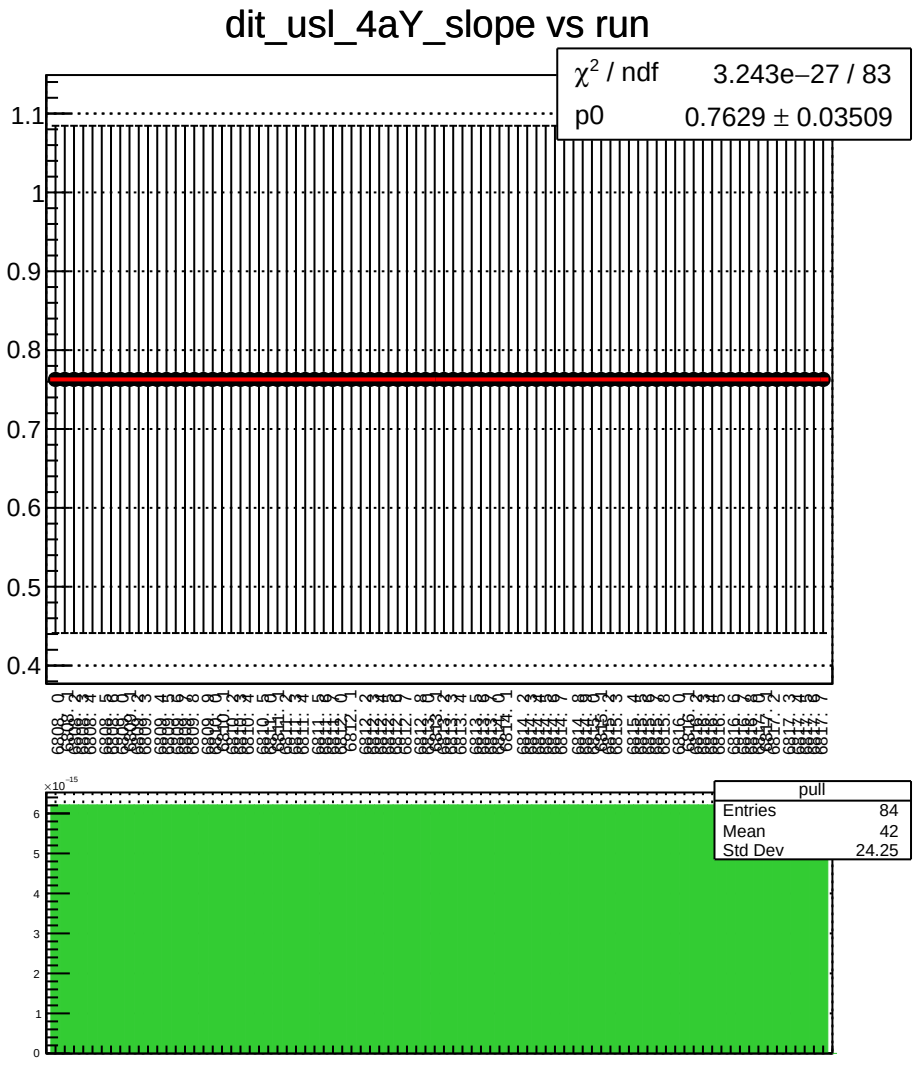

pull1D
Entries 84
Mean 0.009614
Std Dev 1.206
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

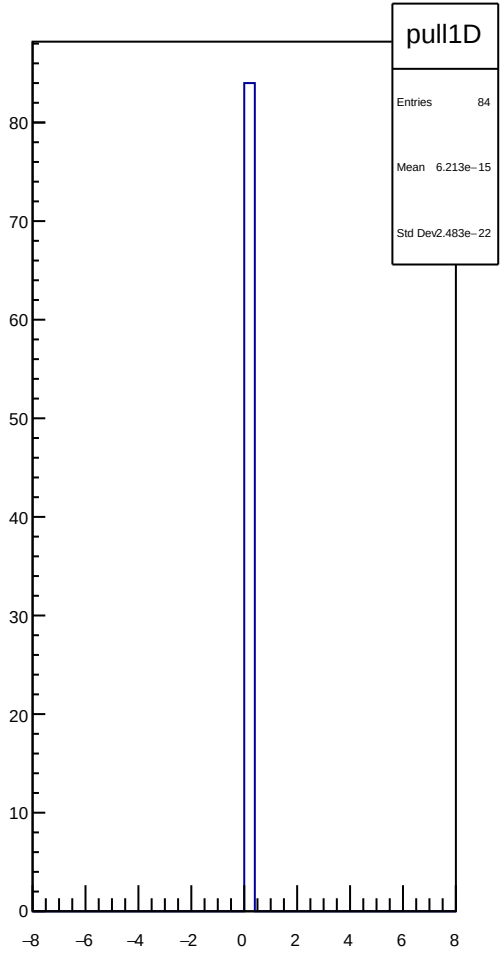

asym_sam_12345678_avg_rms vs run
χ² / ndf 3241 / 83
p0 575.5 ± 0.4545
640
620
600
580
560
540
520

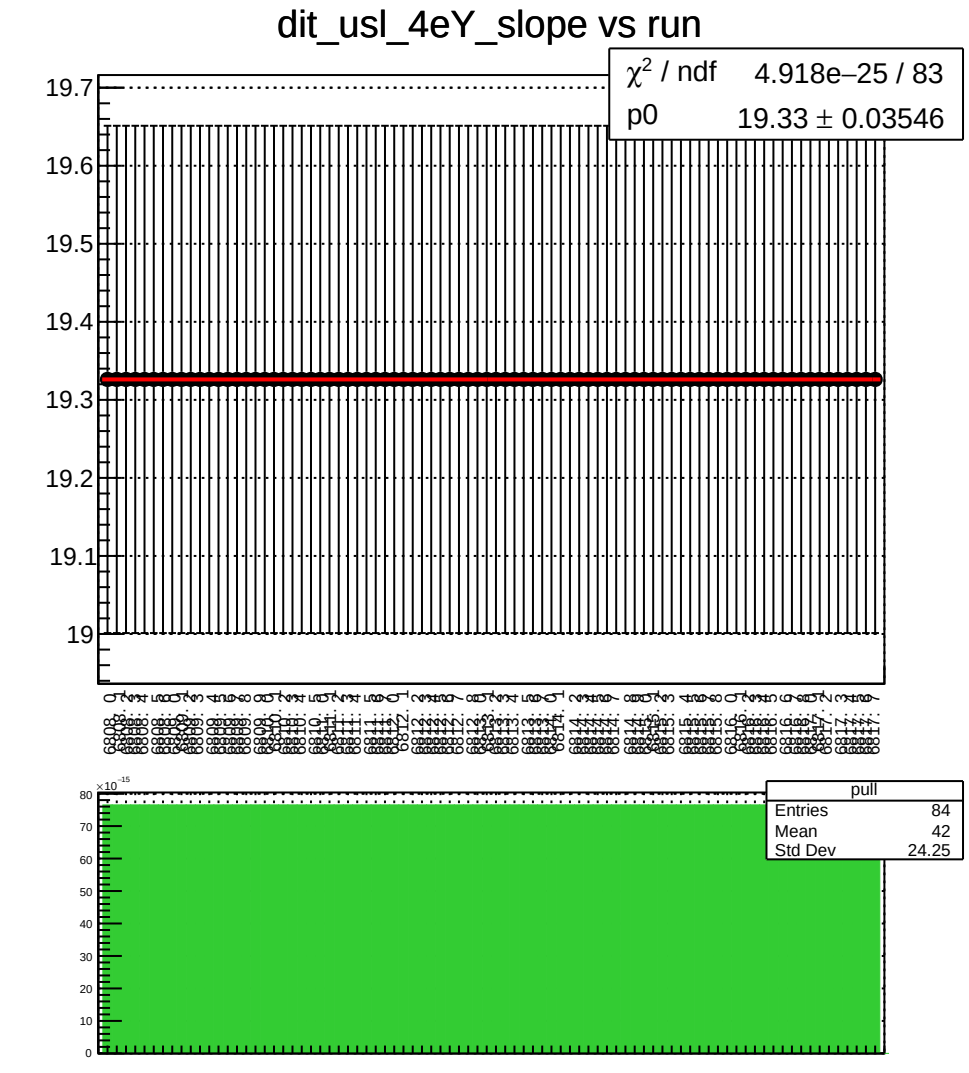

dit_usl_4aX_slope vs run
χ² / ndf 1.385e−25 / 83
p0 −113.5 ± 0.3055
−111
−112
−113
−114
−115
−116
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
−40
pull1D
Entries 84
Mean −4.06e−14
Std Dev1.894e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

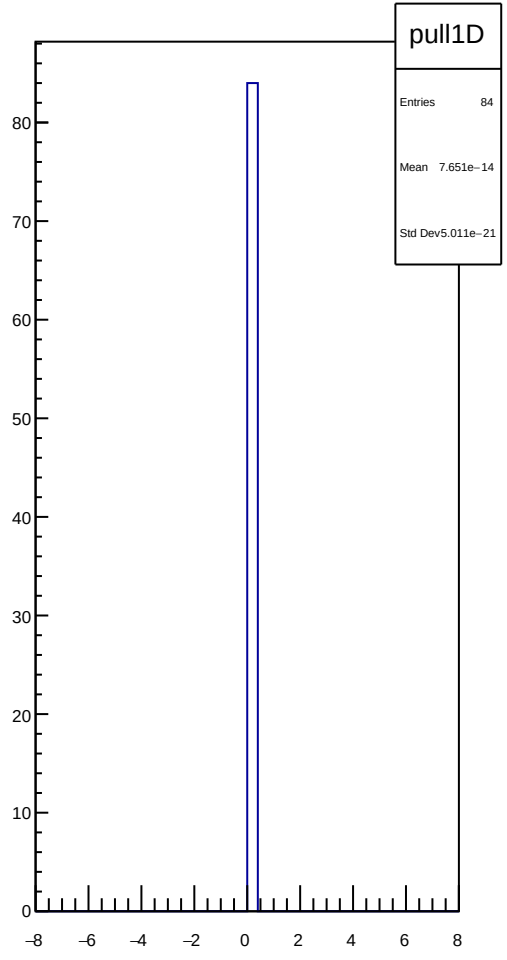

dit_usl_4eX_slope vs run
χ² / ndf 6.638e−26 / 83
p0 45.9 ± 0.2482
48
47
46
45
44
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
25
20
15
10
5
0
pull1D
Entries 84
Mean 2.811e−14
Std Dev1.305e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

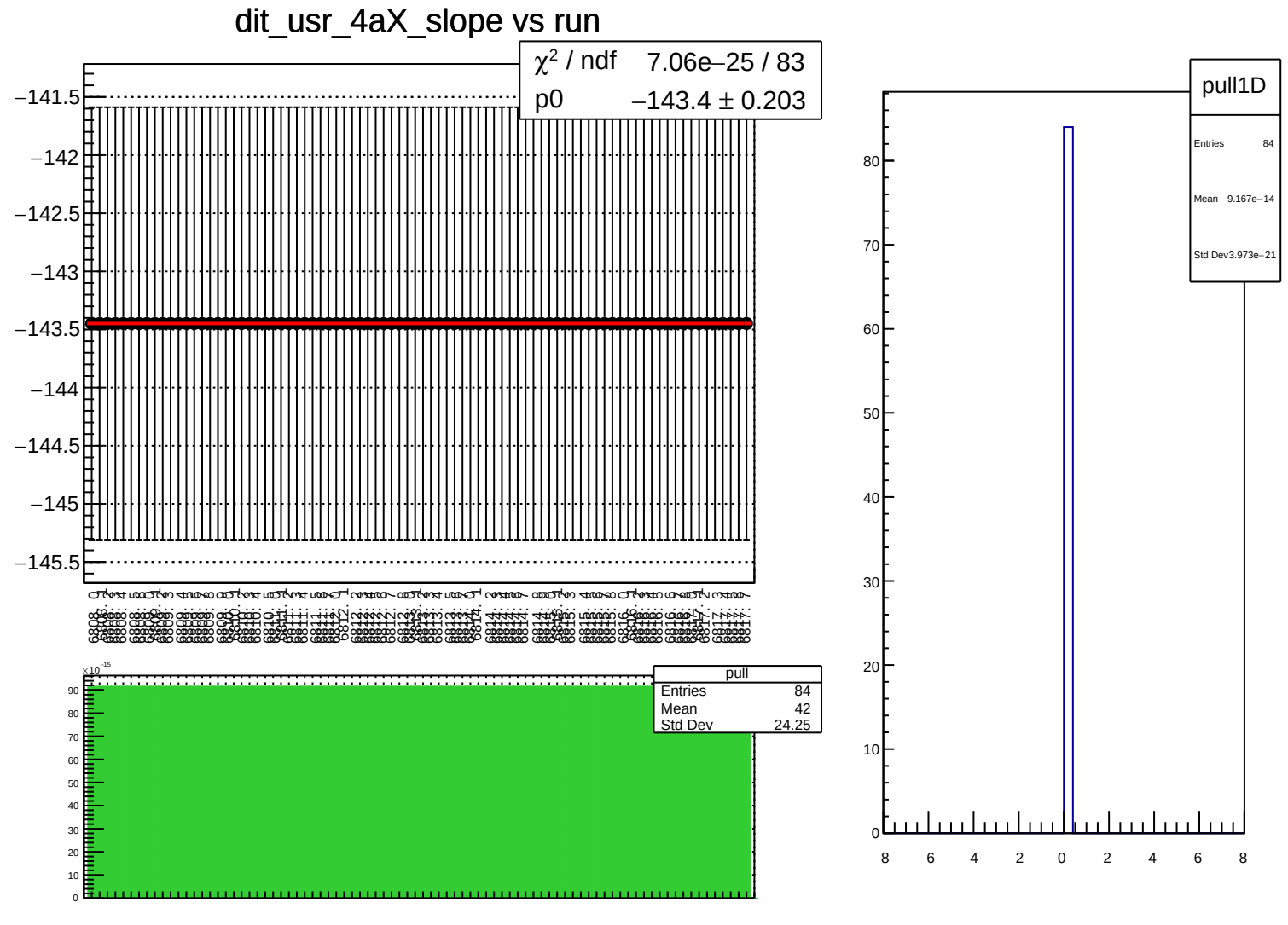

dit_usl_11X12X_slope vs run
χ² / ndf 4.005e−25 / 83
p0 −39.06 ± 0.02245
−38.85
−38.9
−38.95
−39
−39.05
−39.1
−39.15
−39.2
−39.25
−39.3
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 84
Mean −6.905e−14
Std Dev1.894e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

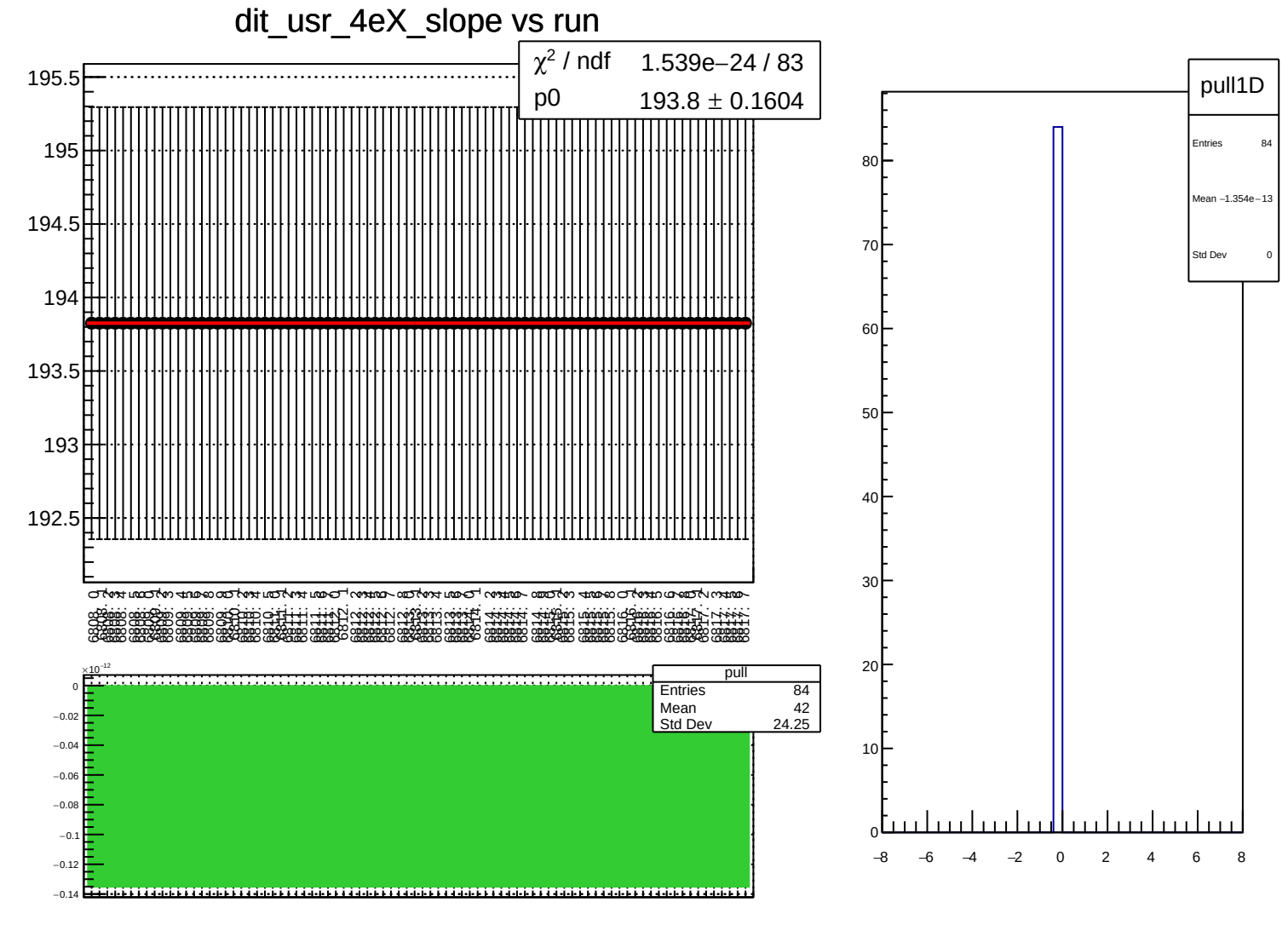

dit_usl_4aY_slope vs run
χ² / ndf 3.243e−27 / 83
p0 0.7629 ± 0.03509
pull
Entries 84
Mean 42
Std Dev 24.25

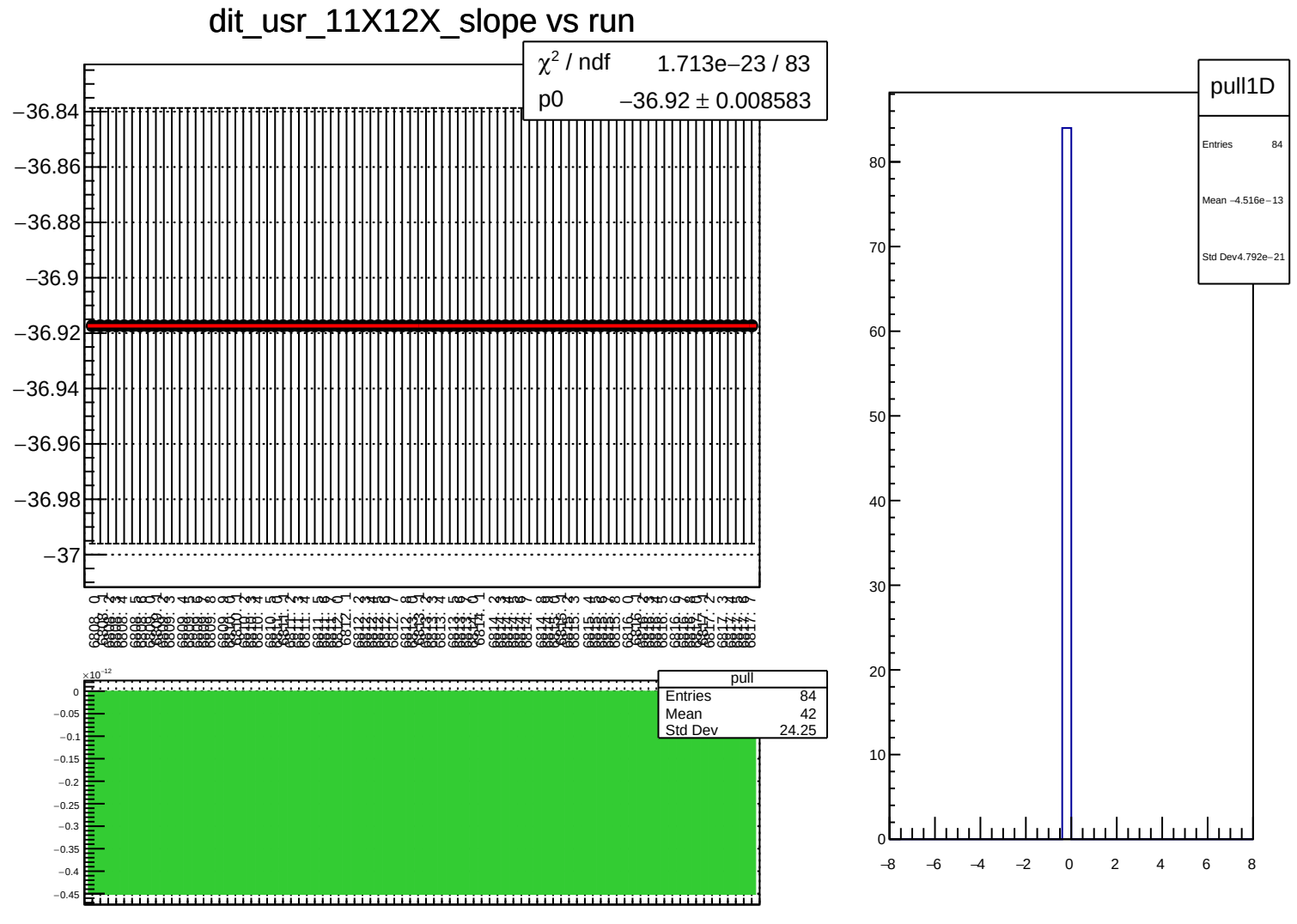

pull1D
Entries 84
Mean 6.213e−15
Std Dev2.483e−22

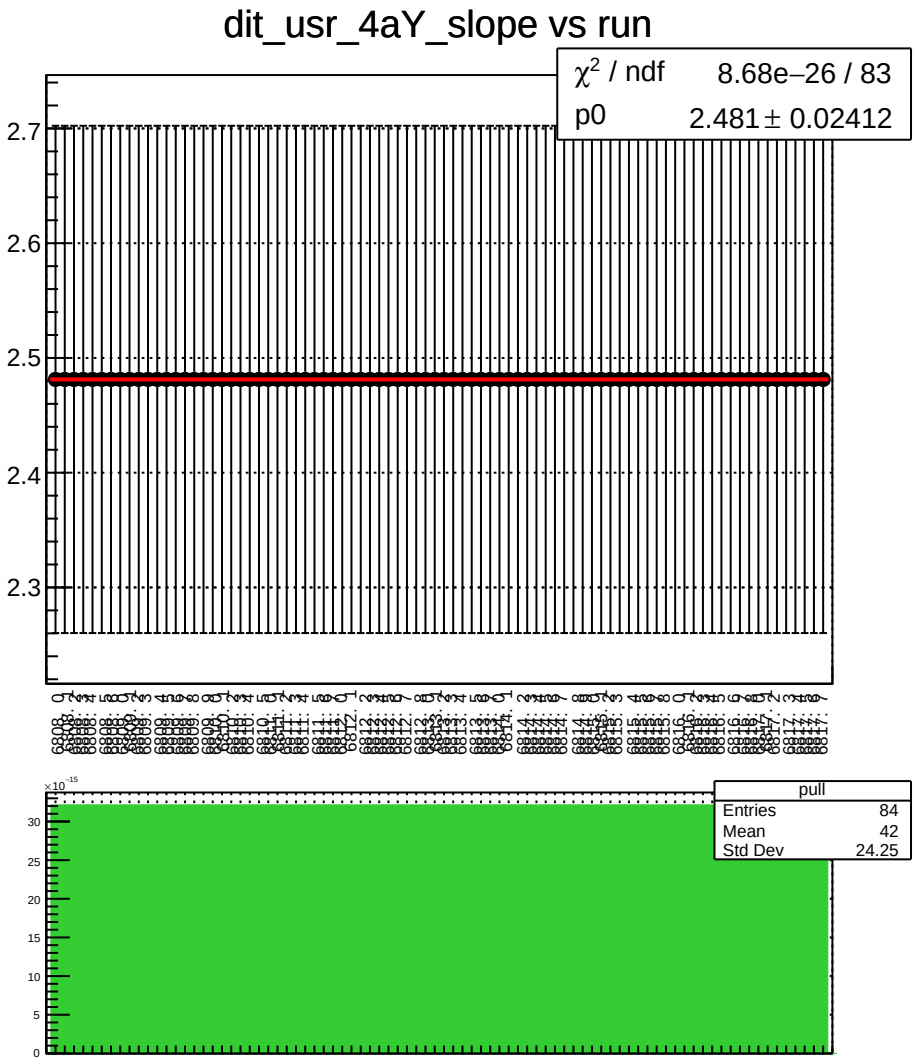

dit_usl_4eY_slope vs run
χ² / ndf 4.918e−25 / 83
p0 19.33 ± 0.03546
19.7
19.6
19.5
19.4
19.3
19.2
19.1
19
×10⁻¹⁵
80
70
60
50
40
30
20
10
0
pull
Entries 84
Mean 42
Std Dev 24.25

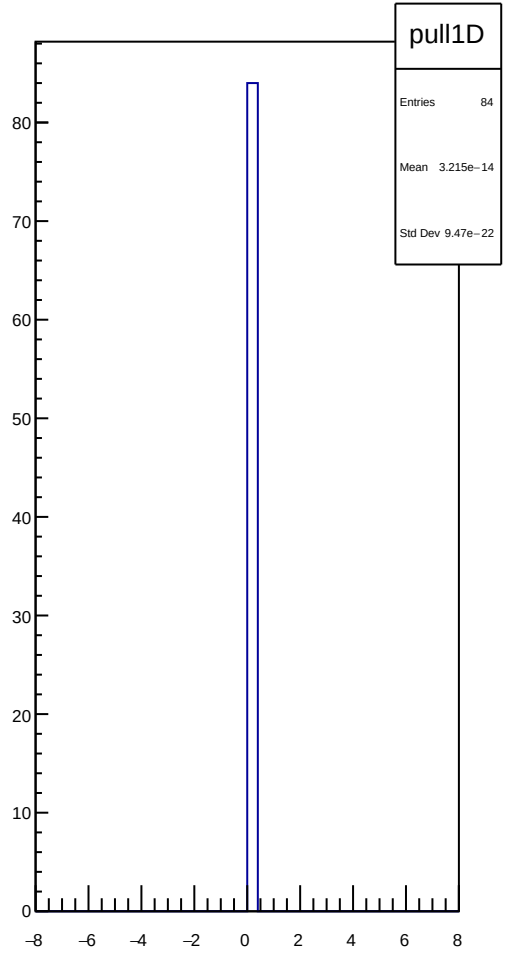

pull1D
Entries 84
Mean 7.651e−14
Std Dev5.011e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

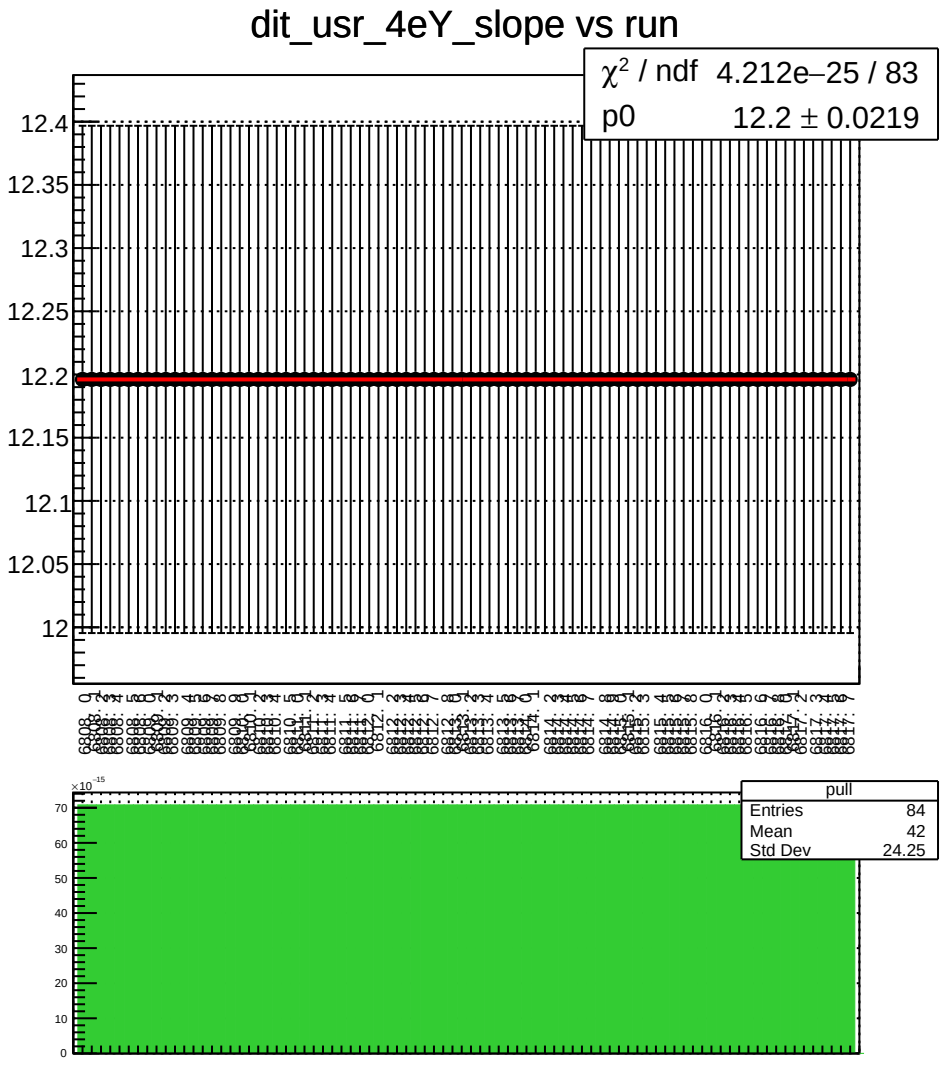

dit_usr_4aX_slope vs run
χ² / ndf 7.06e−25 / 83
p0 −143.4 ± 0.203
−141.5
−142
−142.5
−143
−143.5
−144
−144.5
−145
−145.5
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean 9.167e−14
Std Dev3.973e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

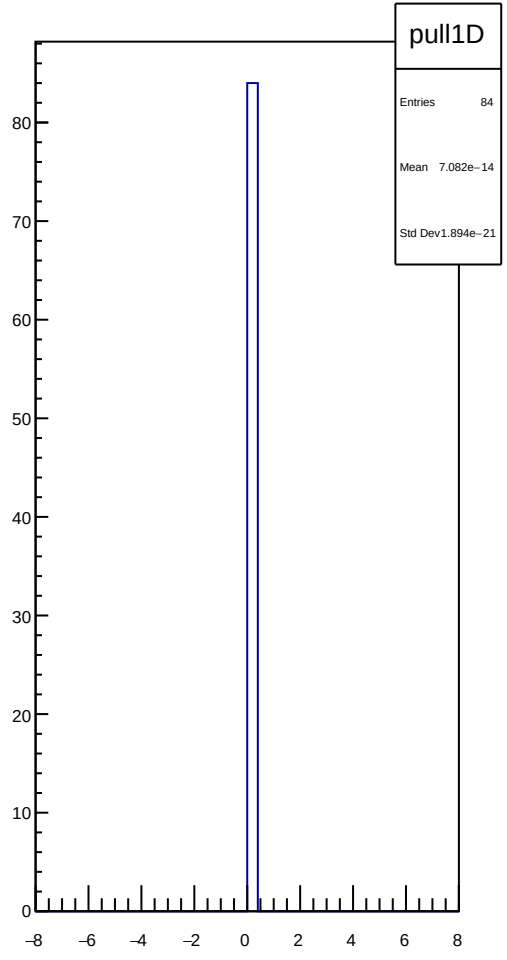

dit_usr_4eX_slope vs run
χ^2 / ndf 1.539e−24 / 83
p0 193.8 ± 0.1604
195.5
195
194.5
194
193.5
193
192.5
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull1D
Entries 84
Mean −1.354e−13
Std Dev 0
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

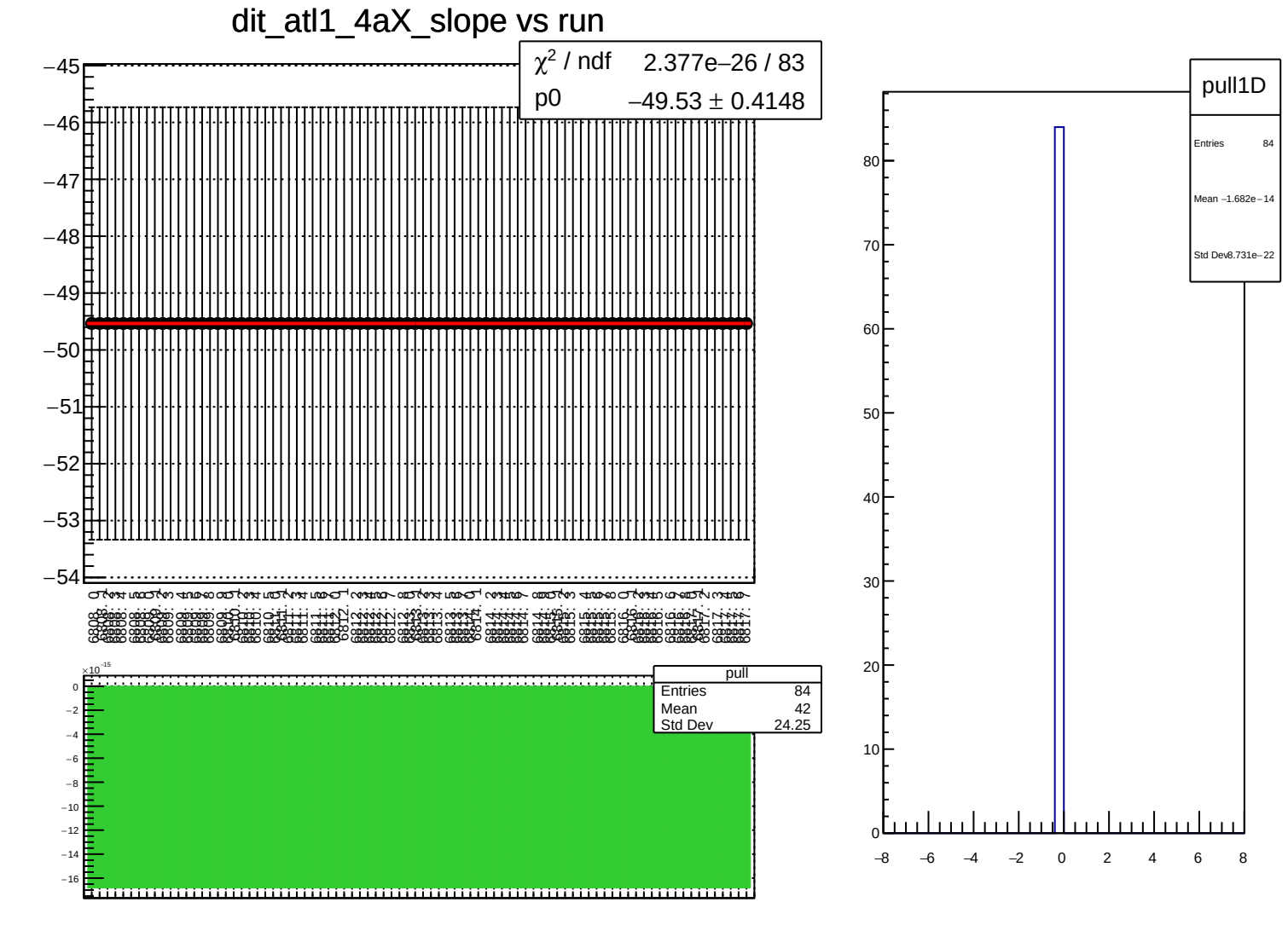

dit_usr_11X12X_slope vs run
χ² / ndf 1.713e−23 / 83
p0 −36.92 ± 0.008583
−36.84
−36.86
−36.88
−36.9
−36.92
−36.94
−36.96
−36.98
−37
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
−0.45
pull1D
Entries 84
Mean −4.516e−13
Std Dev4.792e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

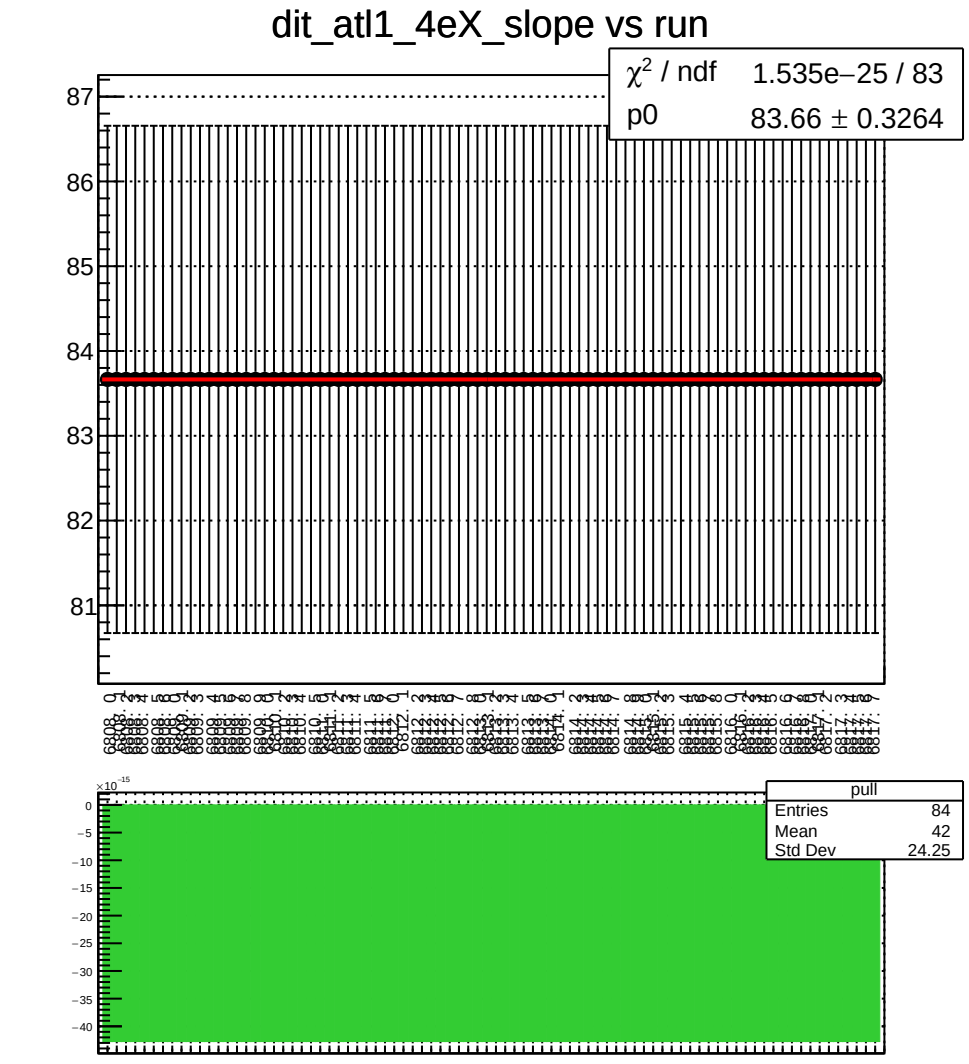

dit_usr_4aY_slope vs run
χ² / ndf 8.68e−26 / 83
p0 2.481 ± 0.02412
2.7
2.6
2.5
2.4
2.3
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
30
25
20
15
10
5
0

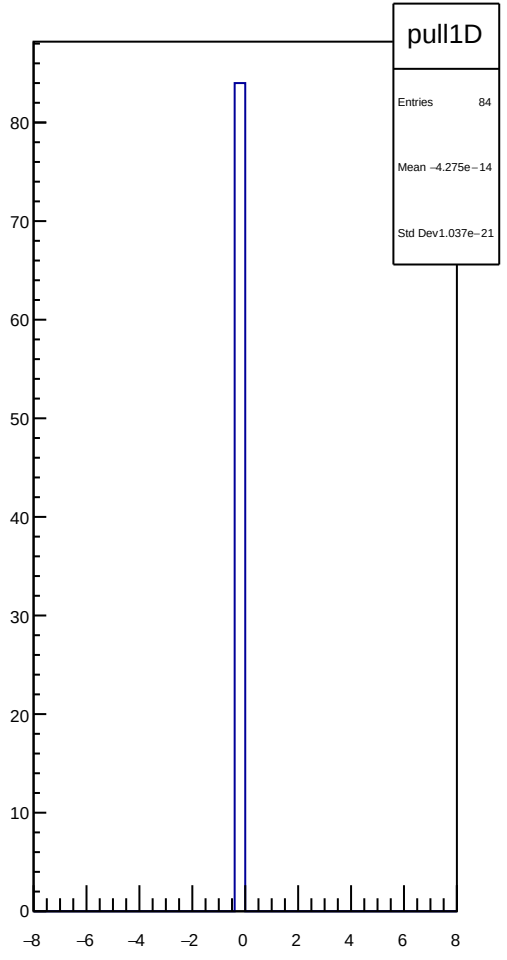

pull1D
Entries 84
Mean 3.215e−14
Std Dev 9.47e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

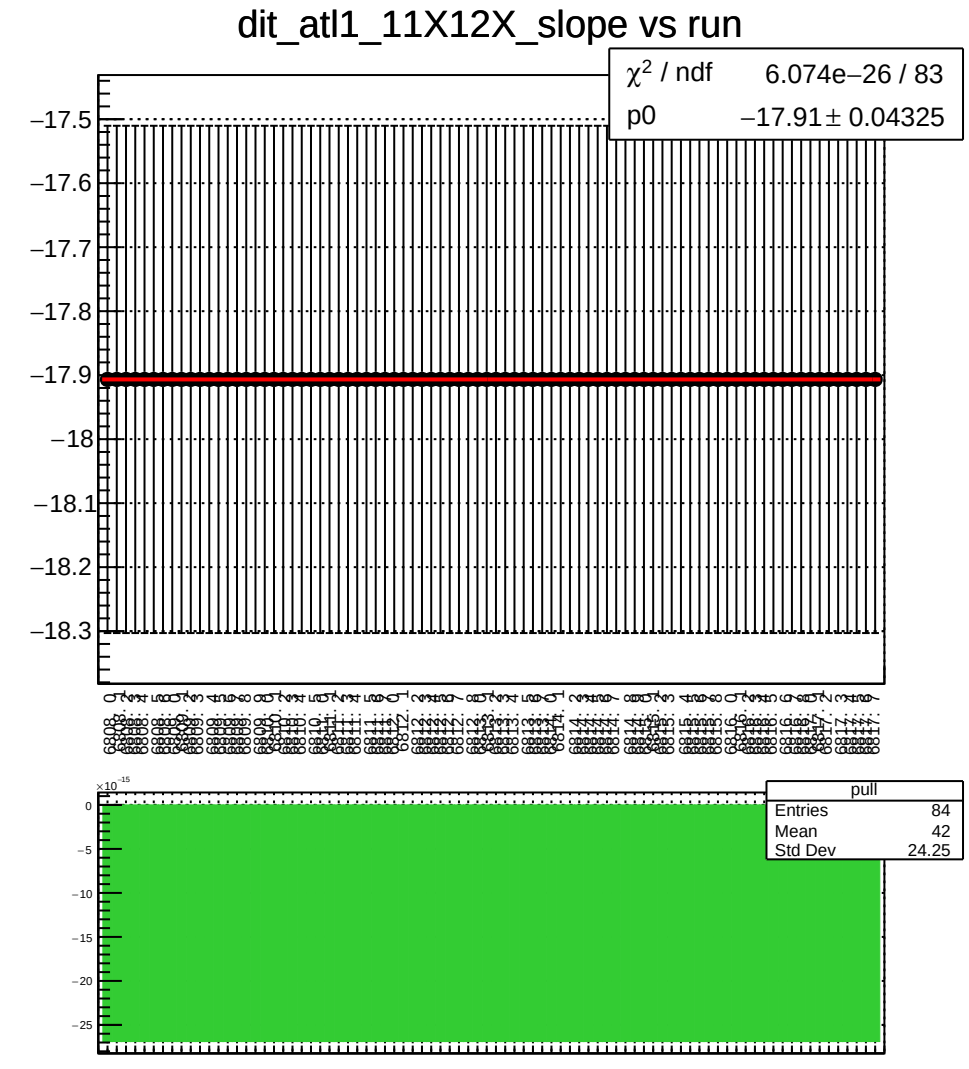

dit_usr_4eY_slope vs run
χ² / ndf 4.212e−25 / 83
p0 12.2 ± 0.0219
12.4
12.35
12.3
12.25
12.2
12.15
12.1
12.05
12
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
70
60
50
40
30
20
10
0

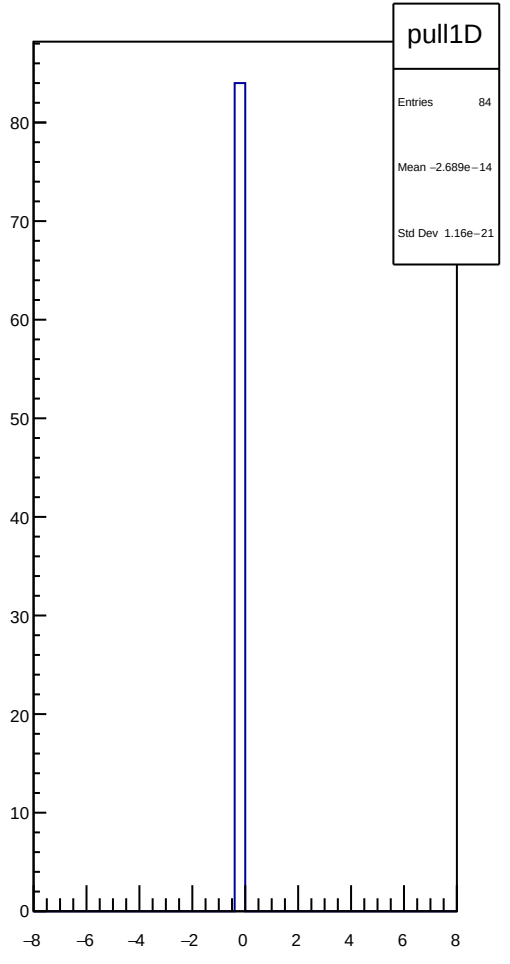

pull1D
Entries 84
Mean 7.082e−14
Std Dev1.894e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

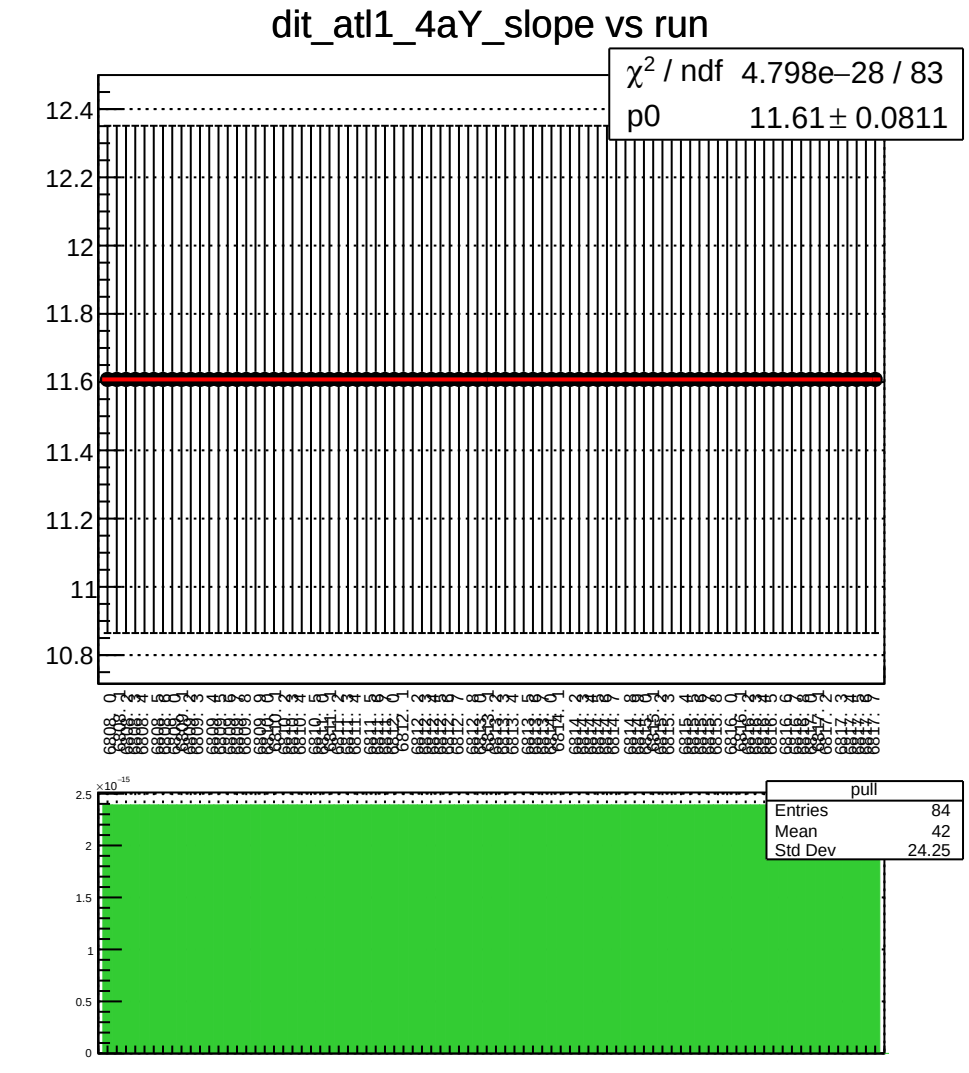

dit_atl1_4aX_slope vs run
χ² / ndf 2.377e−26 / 83
p0 −49.53 ± 0.4148
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean −1.682e−14
Std Dev 8.731e−22

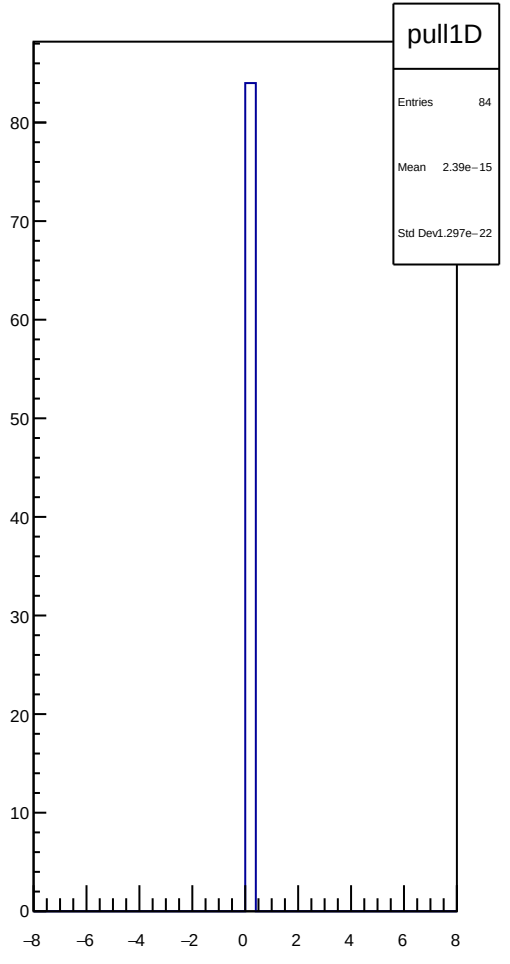

dit_atl1_4eX_slope vs run
χ² / ndf 1.535e−25 / 83
p0 83.66 ± 0.3264
87
86
85
84
83
82
81
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
−40

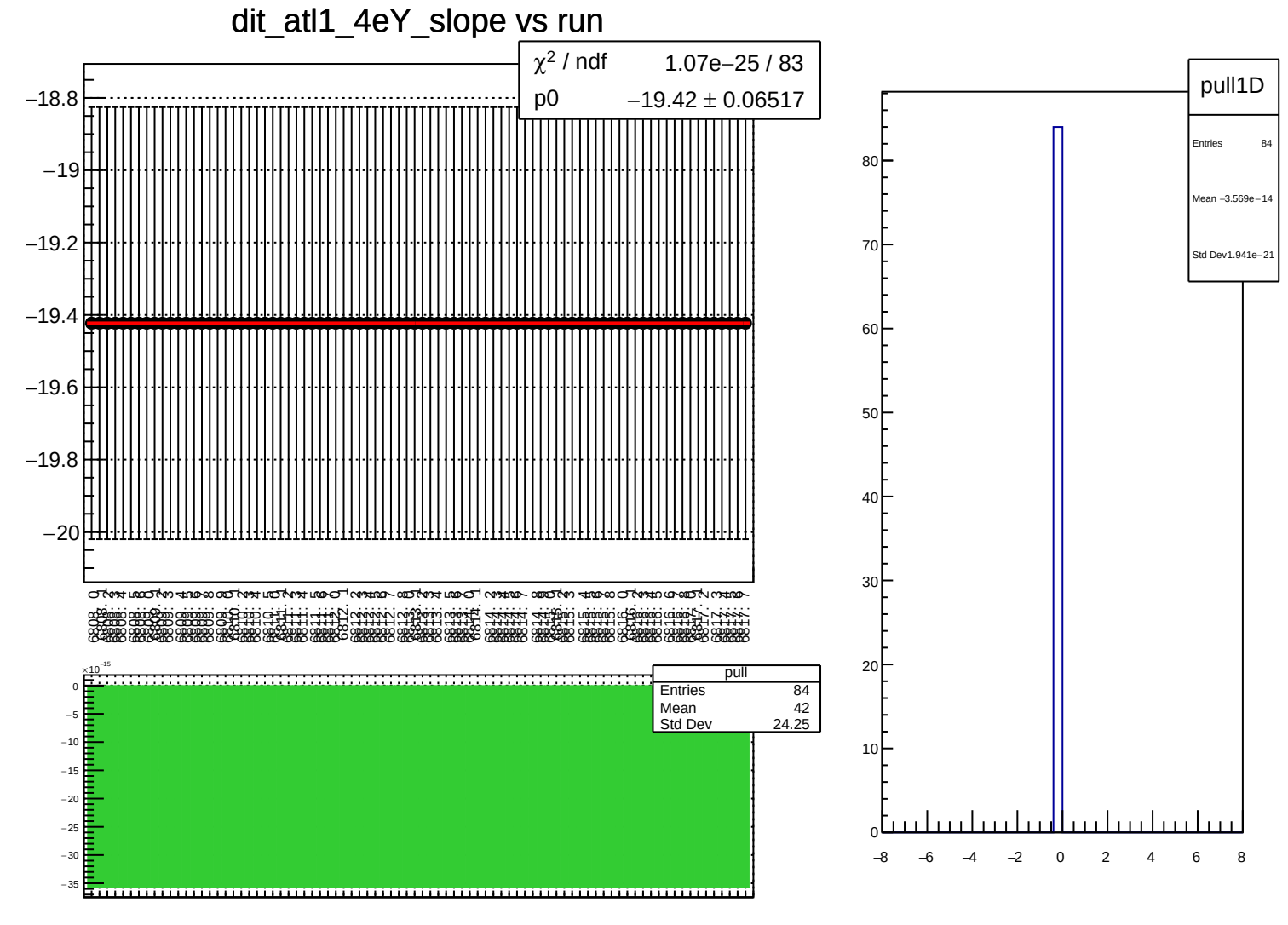

pull1D
Entries 84
Mean −4.275e−14
Std Dev1.037e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

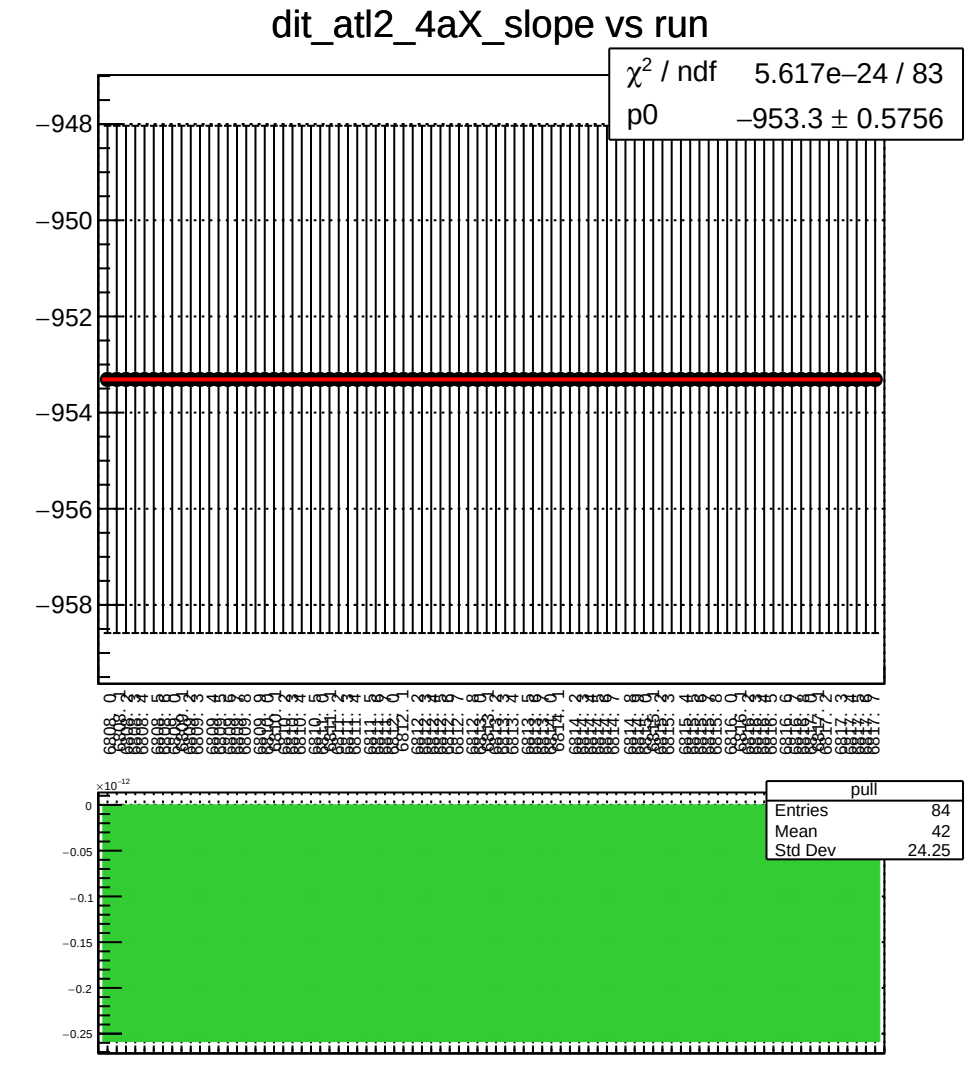

dit_atl1_11X12X_slope vs run
χ² / ndf 6.074e−26 / 83
p0 −17.91 ± 0.04325
−17.5
−17.6
−17.7
−17.8
−17.9
−18
−18.1
−18.2
−18.3
×10⁻¹⁵
0
−5
−10
−15
−20
−25
pull
Entries 84
Mean 42
Std Dev 24.25

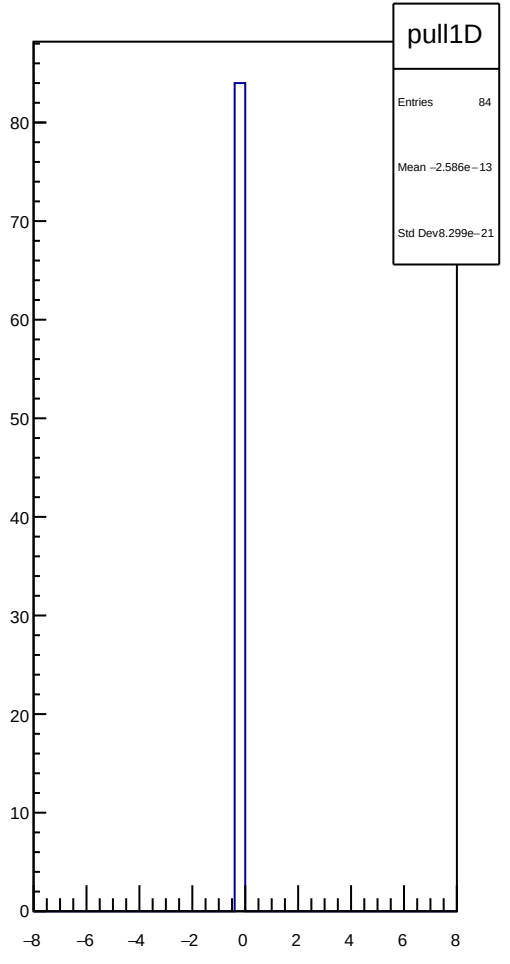

pull1D
Entries 84
Mean −2.689e−14
Std Dev 1.16e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

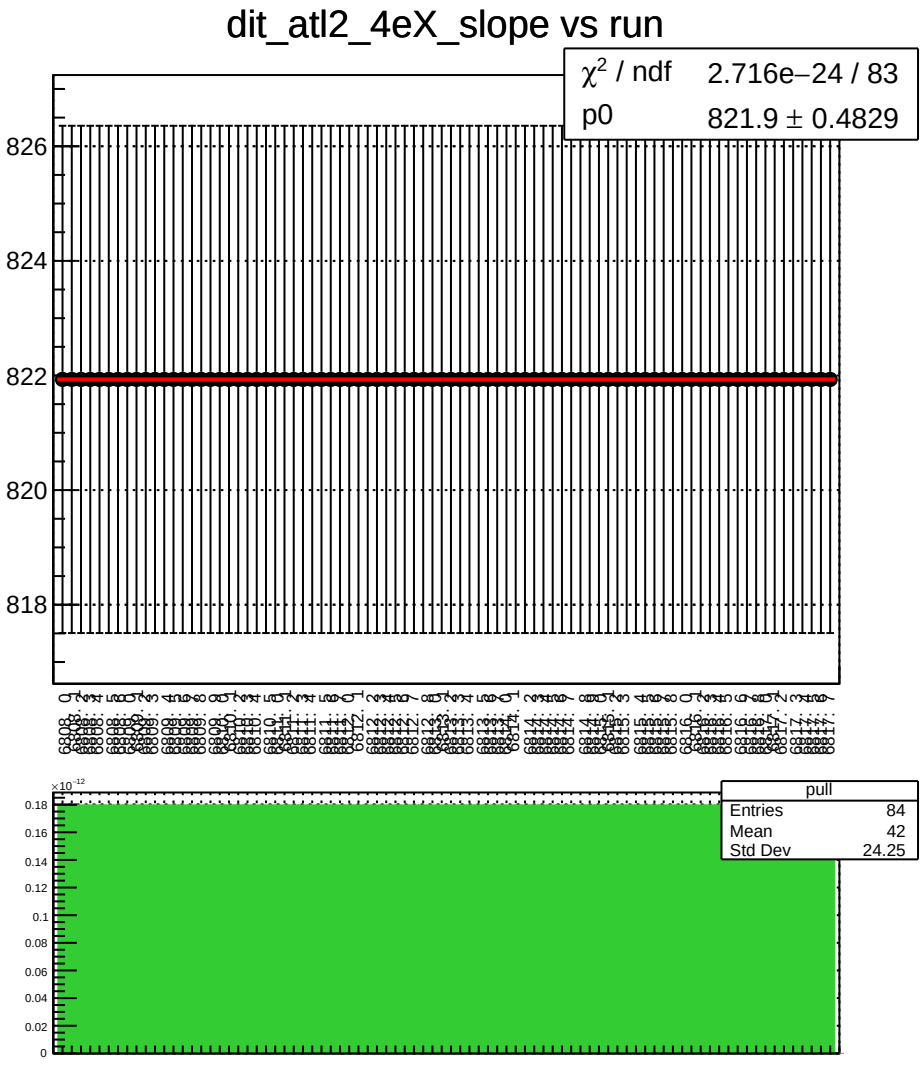

dit_atl1_4aY_slope vs run
χ² / ndf 4.798e−28 / 83
p0 11.61 ± 0.0811
12.4
12.2
12
11.8
11.6
11.4
11.2
11
10.8
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
2.5
2
1.5
1
0.5
0

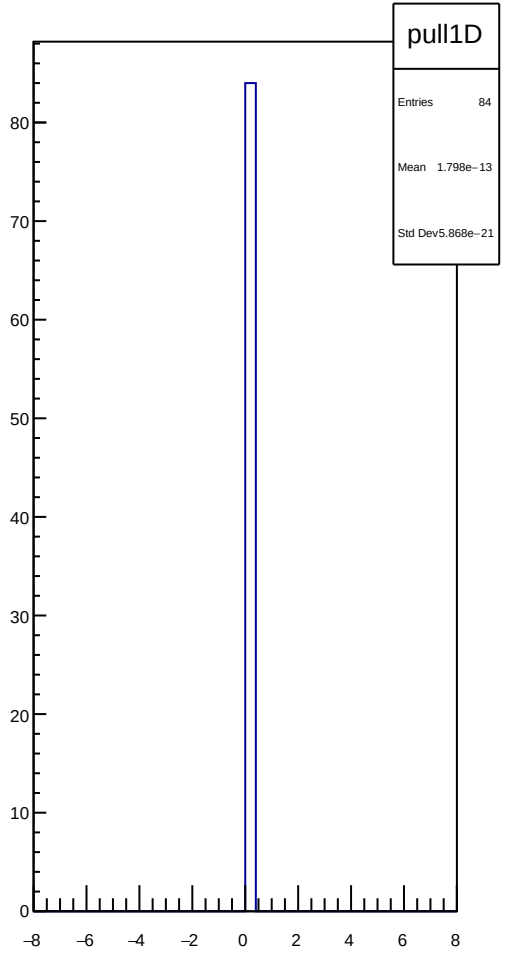

pull1D
Entries 84
Mean 2.39e−15
Std Dev1.297e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

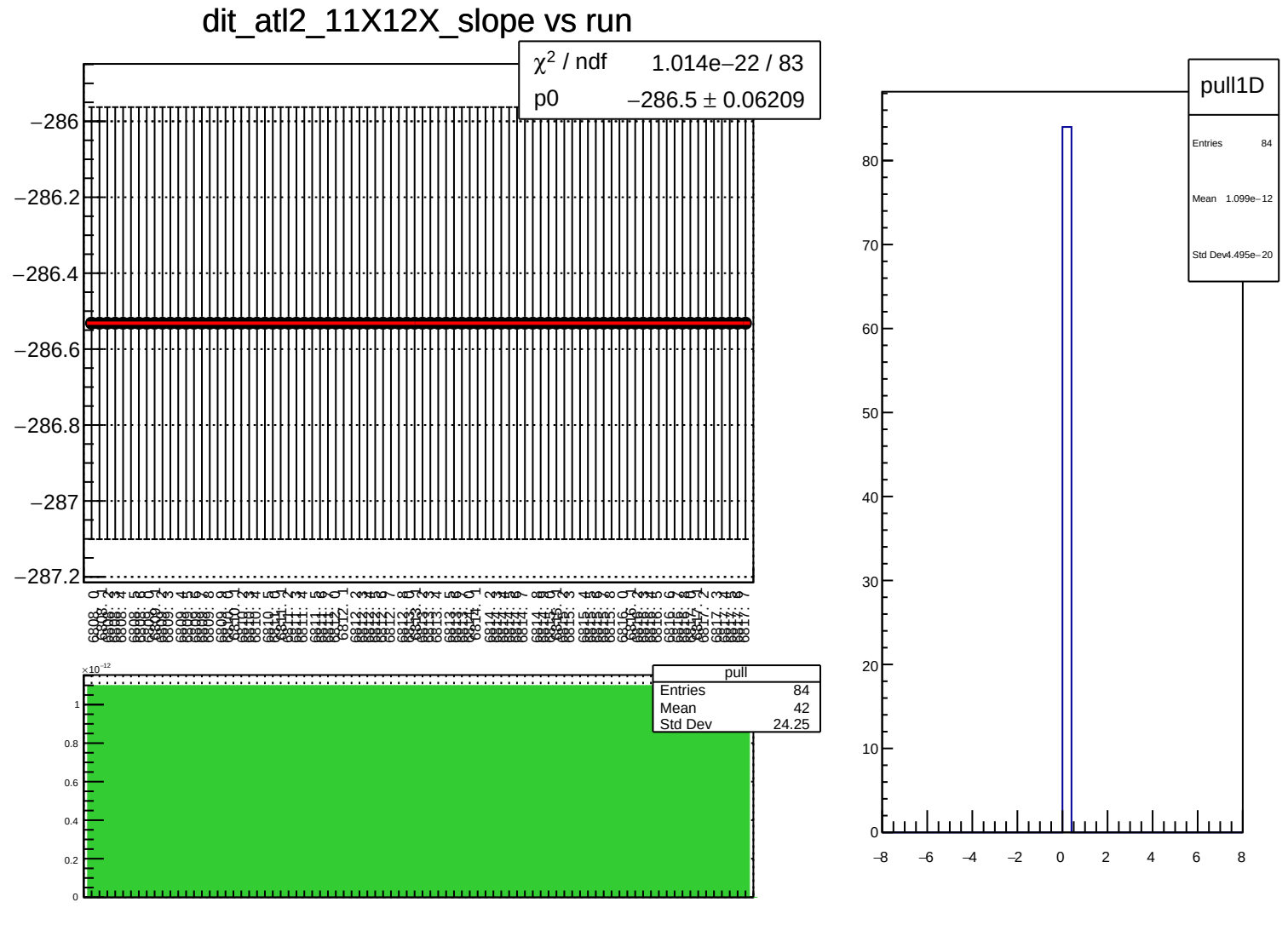

dit_atl1_4eY_slope vs run
χ² / ndf 1.07e−25 / 83
p0 −19.42 ± 0.06517
−18.8
−19
−19.2
−19.4
−19.6
−19.8
−20
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
pull1D
Entries 84
Mean −3.569e−14
Std Dev1.941e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

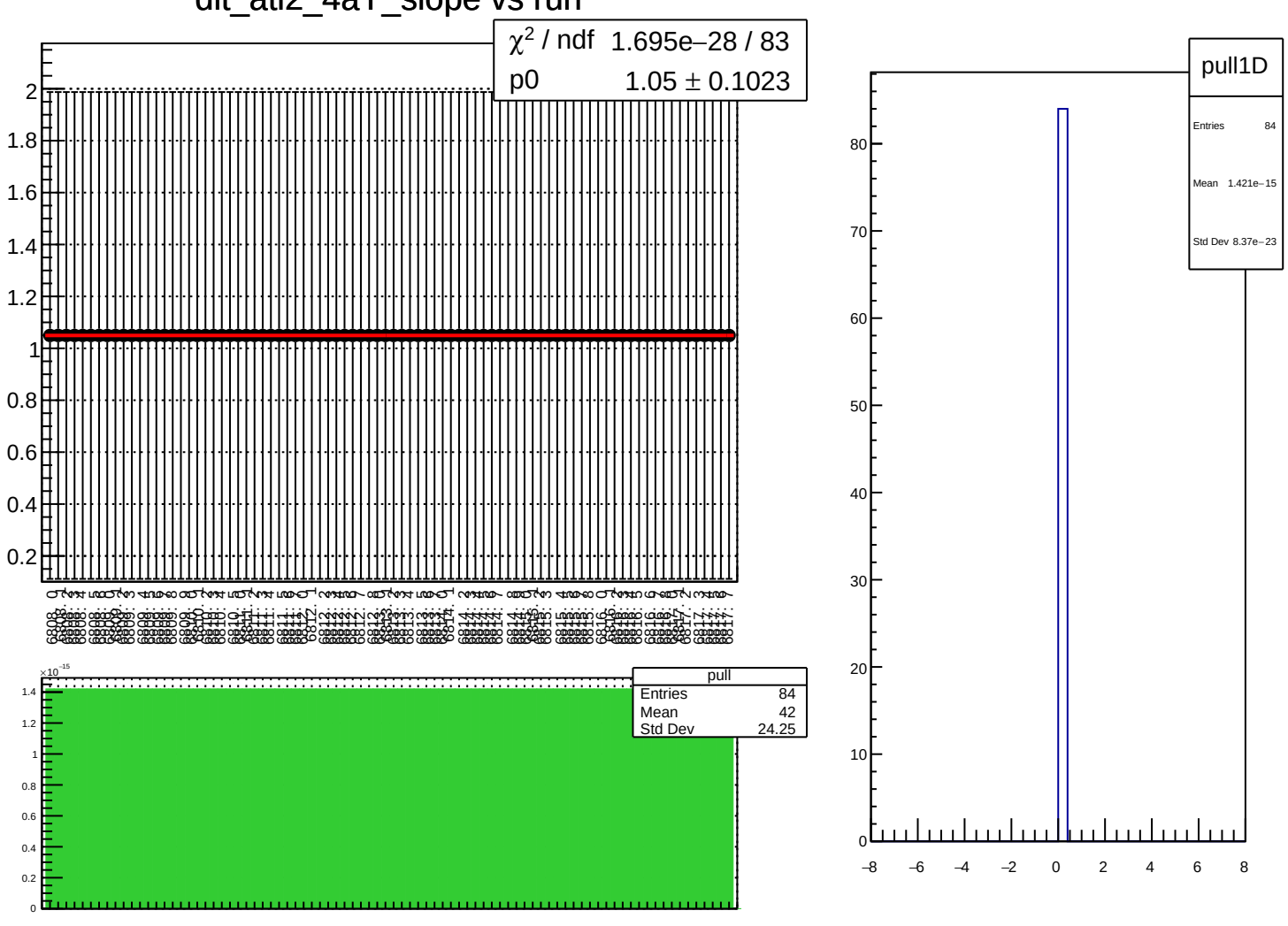

dit_atl2_4aX_slope vs run
χ² / ndf 5.617e−24 / 83
p0 −953.3 ± 0.5756
−948
−950
−952
−954
−956
−958
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25

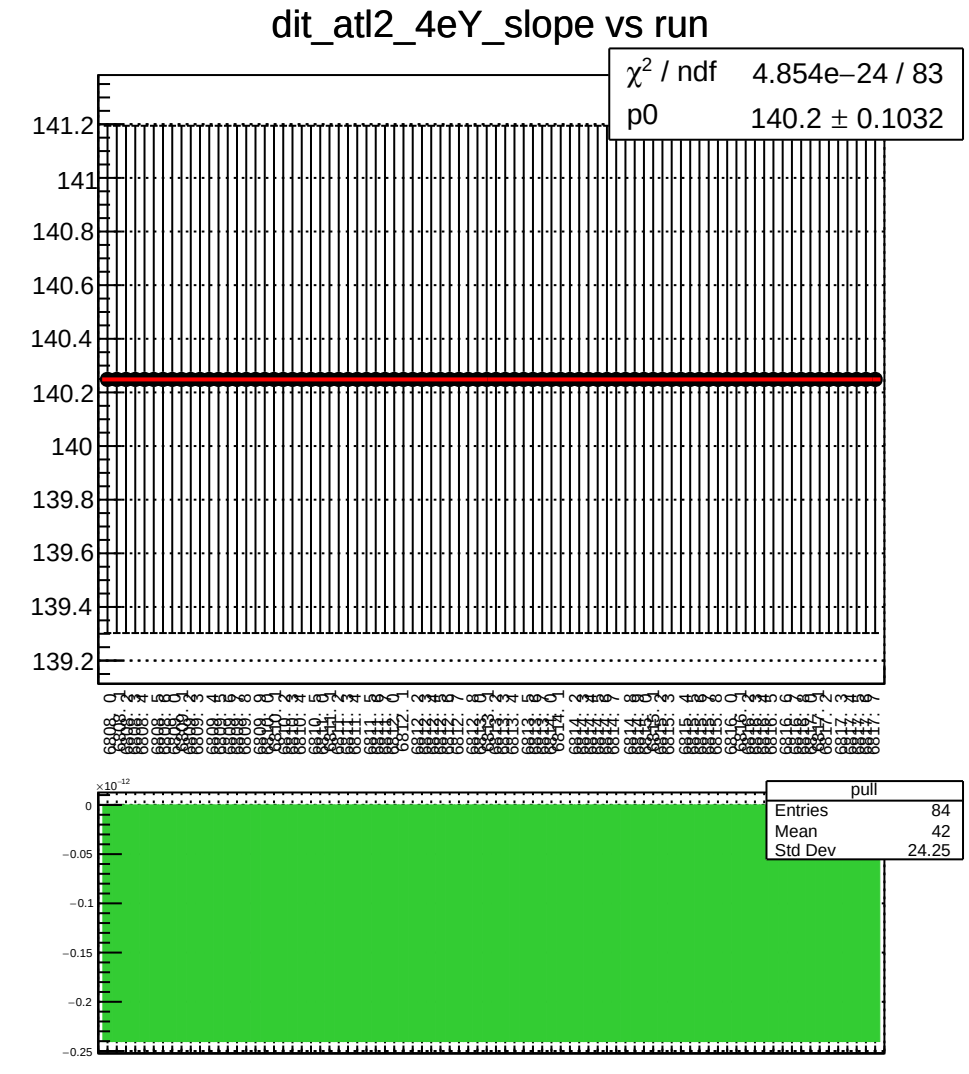

pull1D
Entries 84
Mean −2.586e−13
Std Dev8.299e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

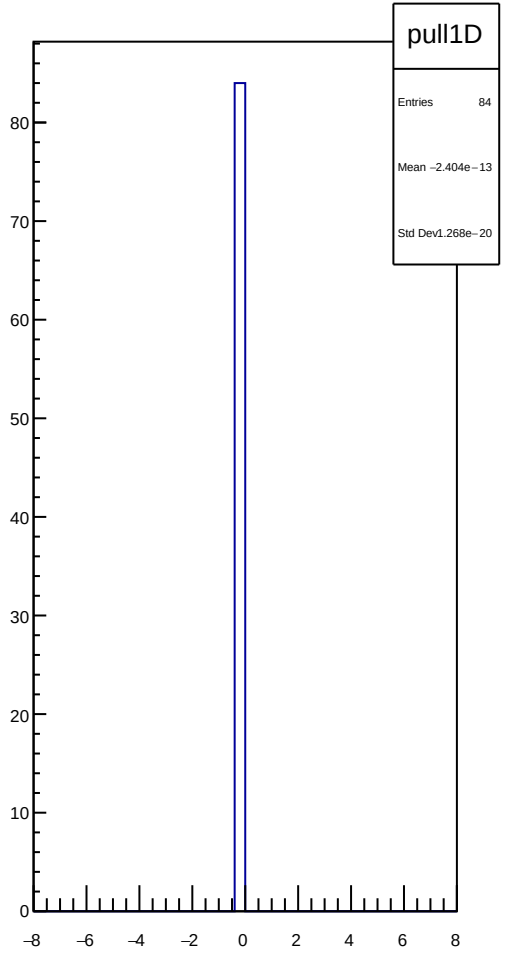

dit_atl2_4eX_slope vs run
χ² / ndf 2.716e−24 / 83
p0 821.9 ± 0.4829
826
824
822
820
818
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹²
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

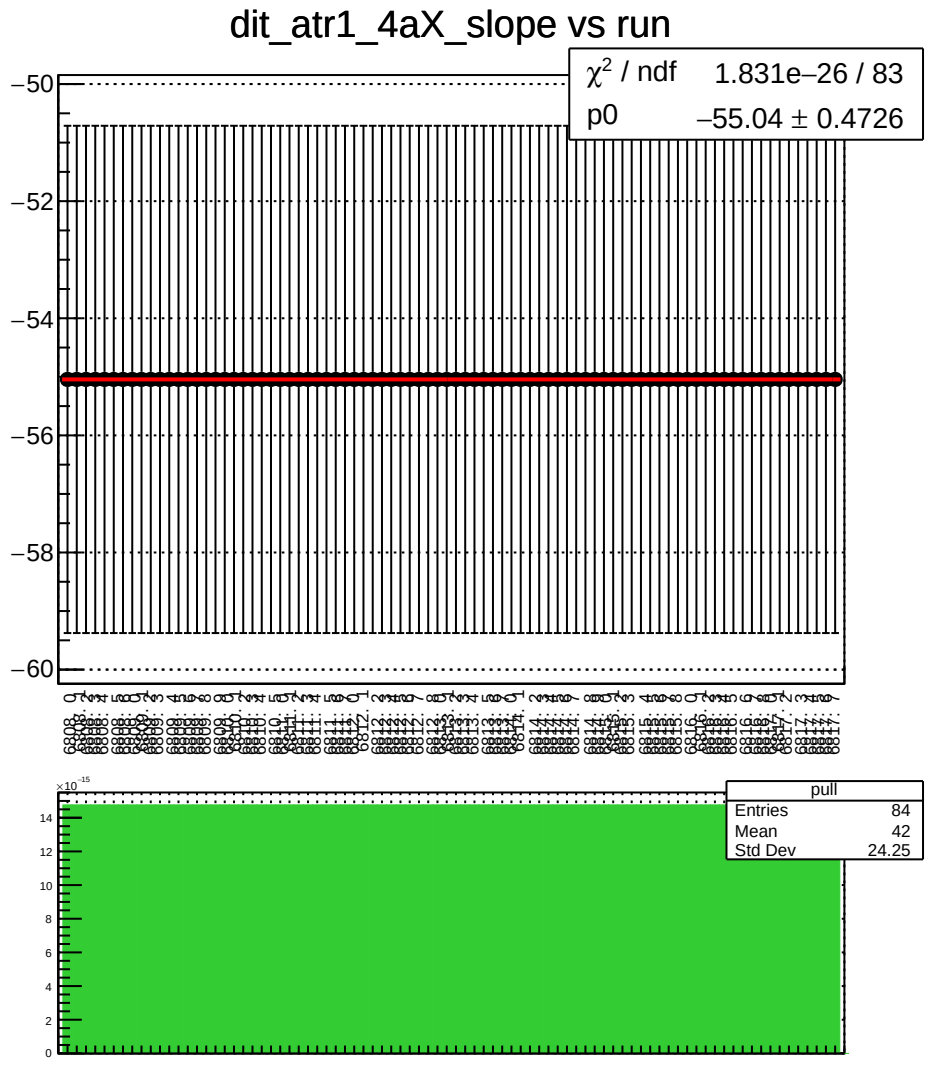

pull1D
Entries 84
Mean 1.798e−13
Std Dev5.868e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

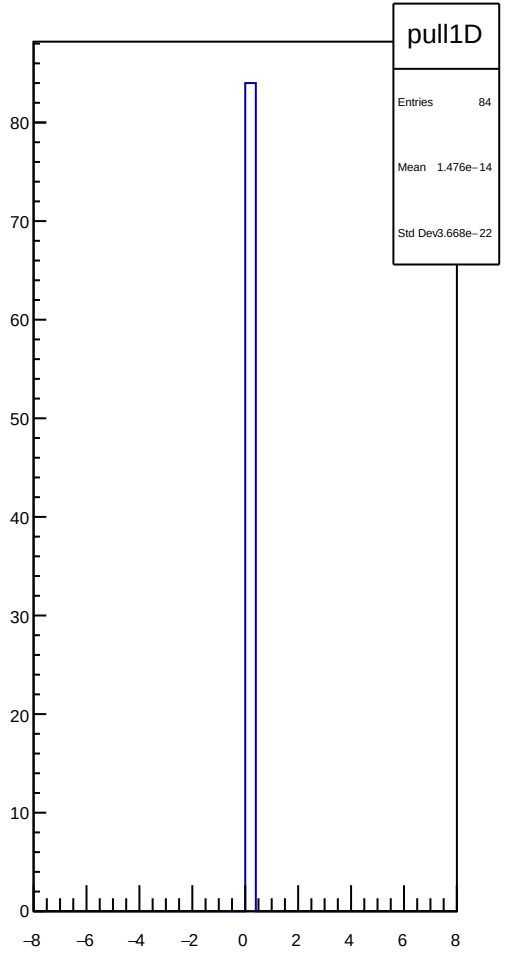

dit_atl2_11X12X_slope vs run
χ² / ndf 1.014e−22 / 83
p0 −286.5 ± 0.06209
−286
−286.2
−286.4
−286.6
−286.8
−287
−287.2
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹²
pull1D
Entries 84
Mean 1.099e−12
Std Dev4.495e−20

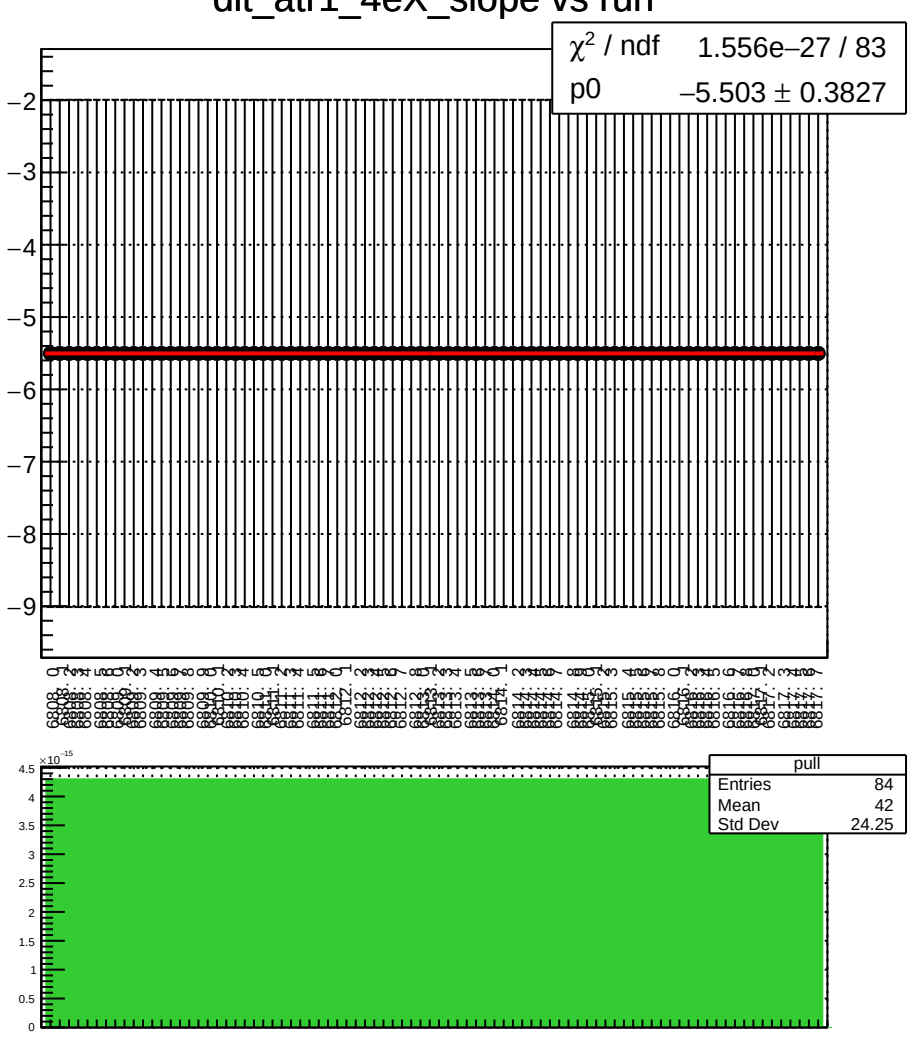

dit_atl2_4aY_slope vs run
χ² / ndf 1.695e−28 / 83
p0 1.05 ± 0.1023
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean 1.421e−15
Std Dev 8.37e−23

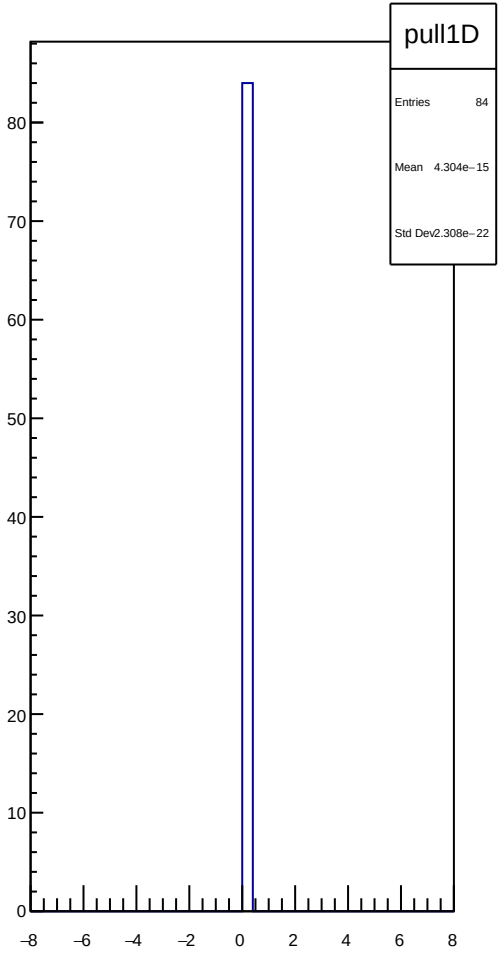

dit_atl2_4eY_slope vs run
χ² / ndf 4.854e−24 / 83
p0 140.2 ± 0.1032
141.2
141
140.8
140.6
140.4
140.2
140
139.8
139.6
139.4
139.2
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25

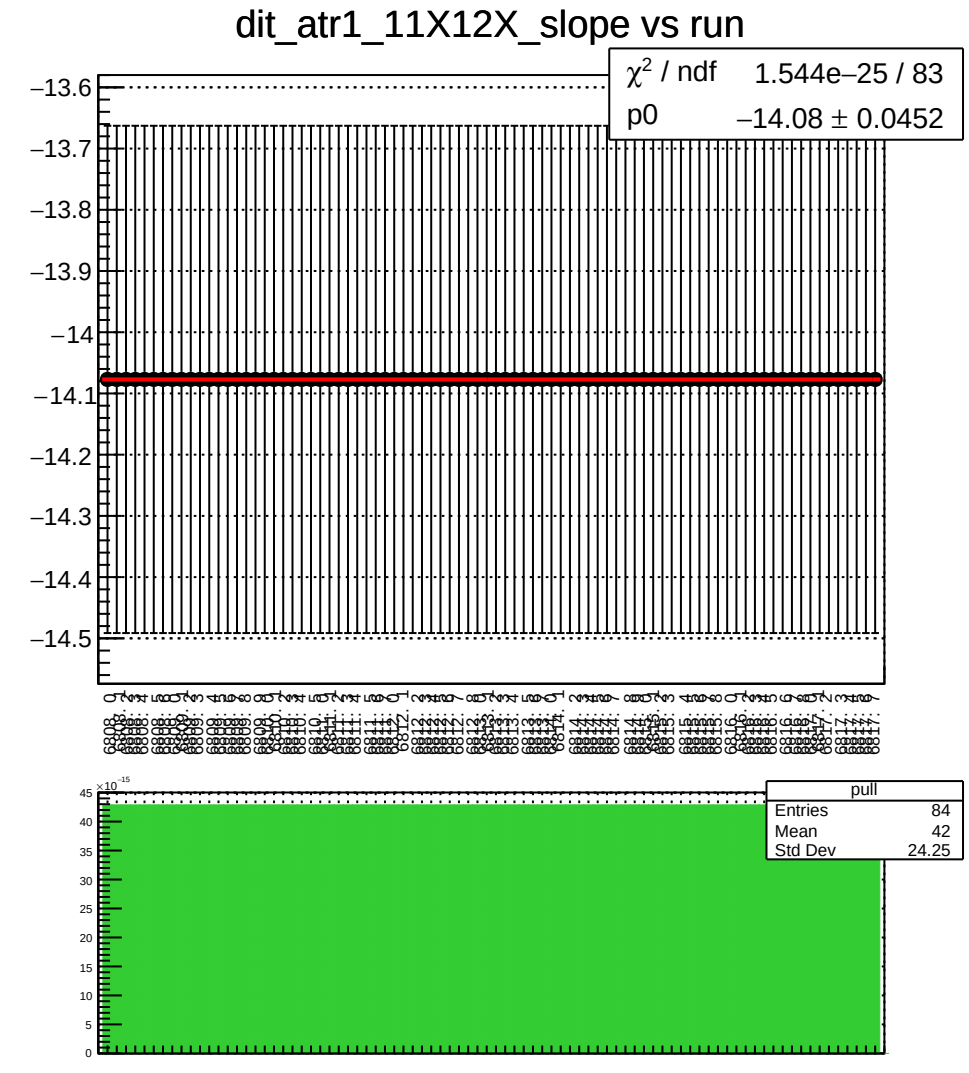

pull1D
Entries 84
Mean −2.404e−13
Std Dev1.268e−20
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

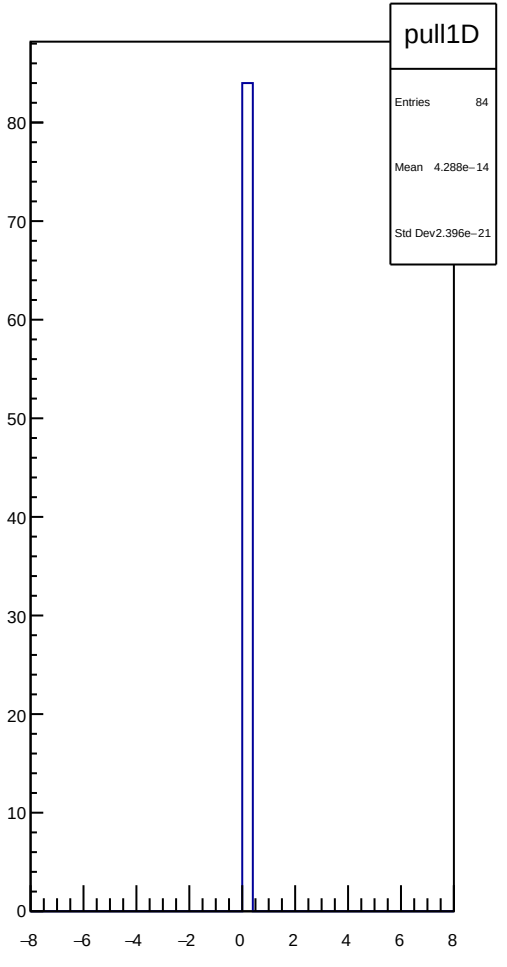

dit_atr1_4aX_slope vs run
χ² / ndf 1.831e−26 / 83
p0 −55.04 ± 0.4726
−50
−52
−54
−56
−58
−60
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
14
12
10
8
6
4
2
0

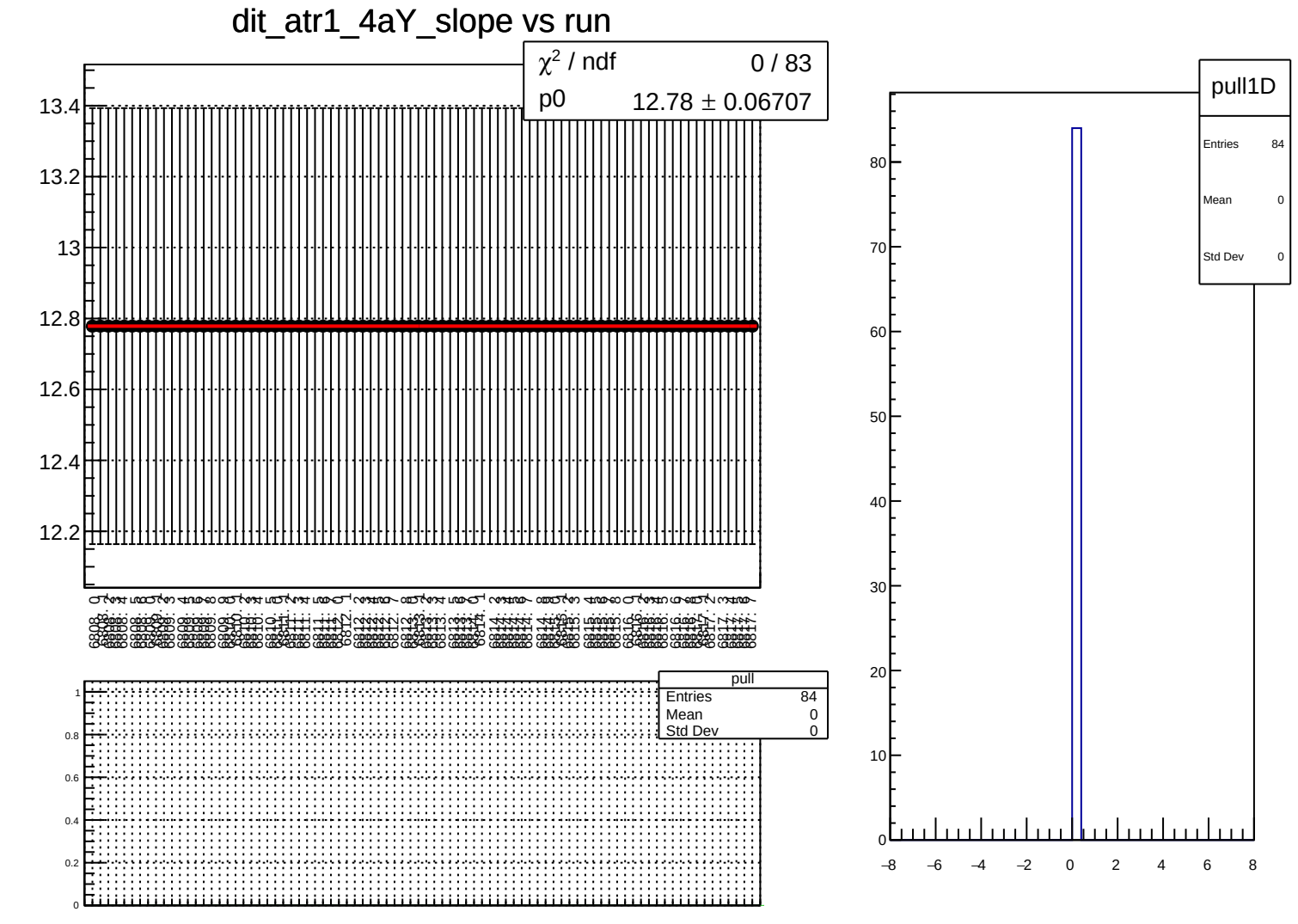

pull1D
Entries 84
Mean 1.476e−14
Std Dev3.668e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

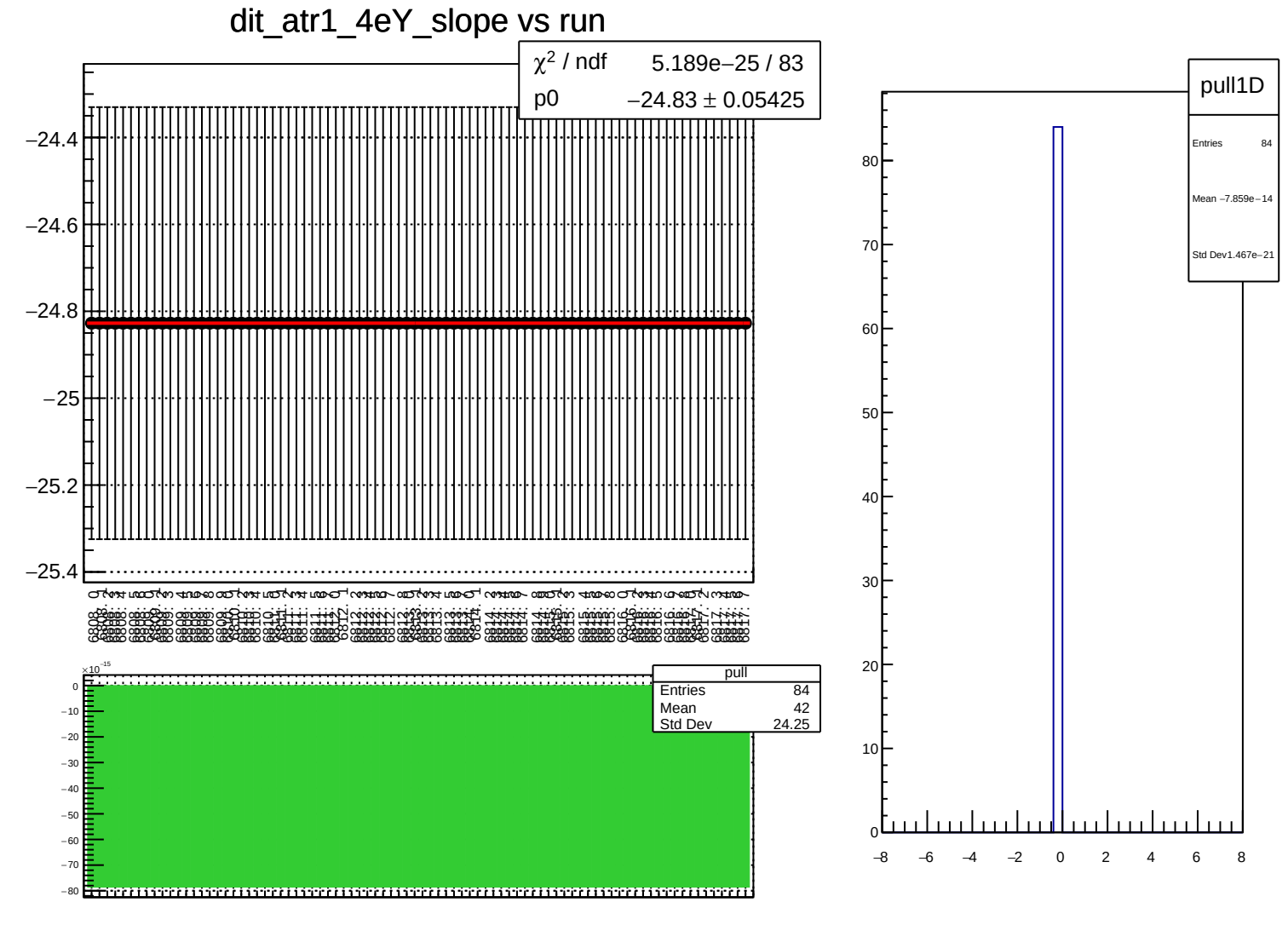

dit_atr1_4eX_slope vs run
χ² / ndf 1.556e−27 / 83
p0 −5.503 ± 0.3827
pull
Entries 84
Mean 42
Std Dev 24.25

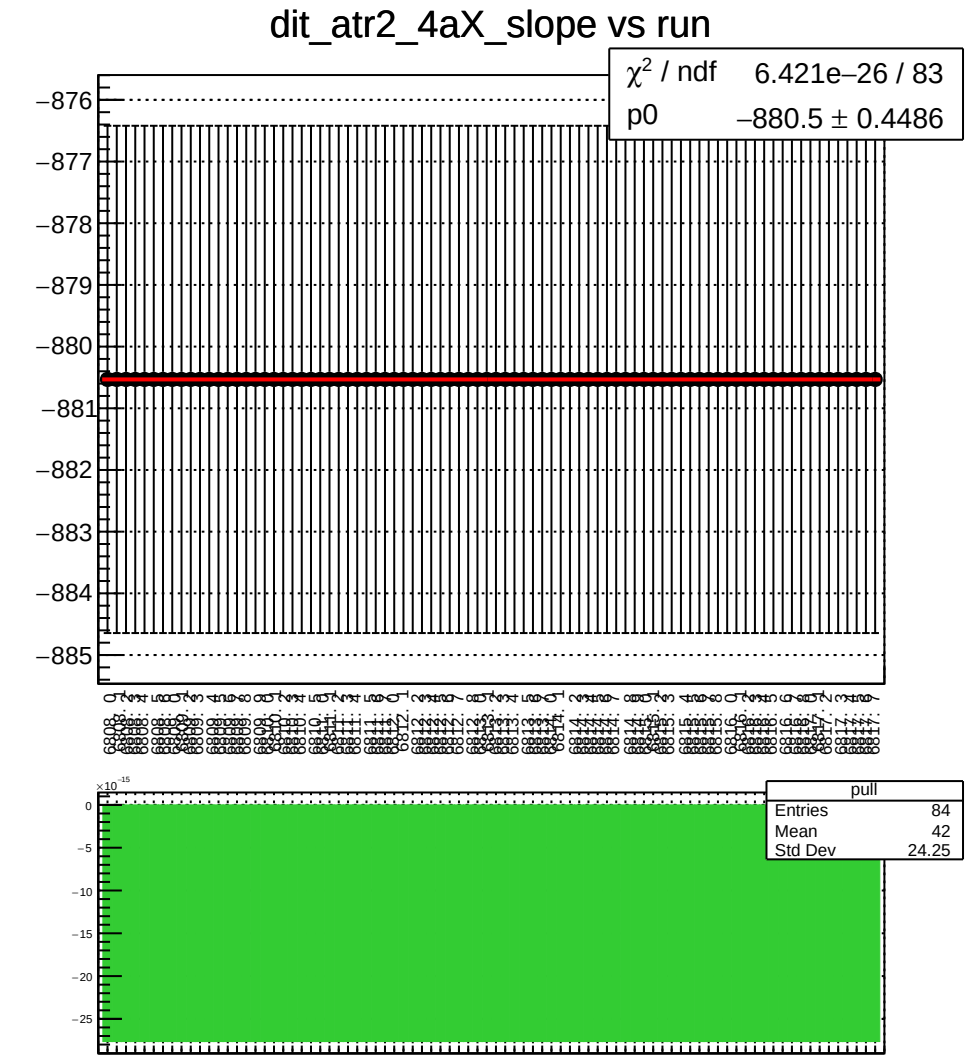

pull1D
Entries 84
Mean 4.304e−15
Std Dev 2.308e−22

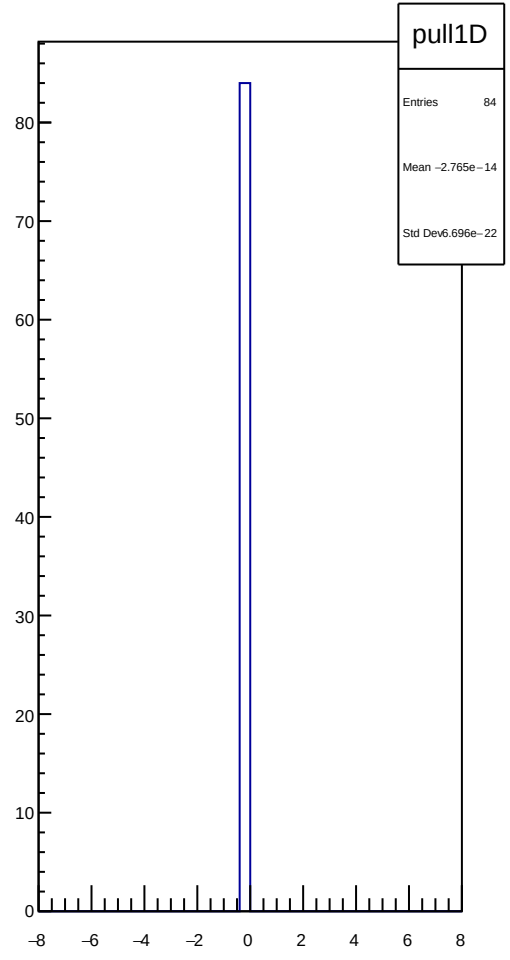

dit_atr1_11X12X_slope vs run
χ² / ndf 1.544e−25 / 83
p0 −14.08 ± 0.0452
−13.6
−13.7
−13.8
−13.9
−14
−14.1
−14.2
−14.3
−14.4
−14.5
×10⁻¹⁵
45
40
35
30
25
20
15
10
5
0
pull
Entries 84
Mean 42
Std Dev 24.25

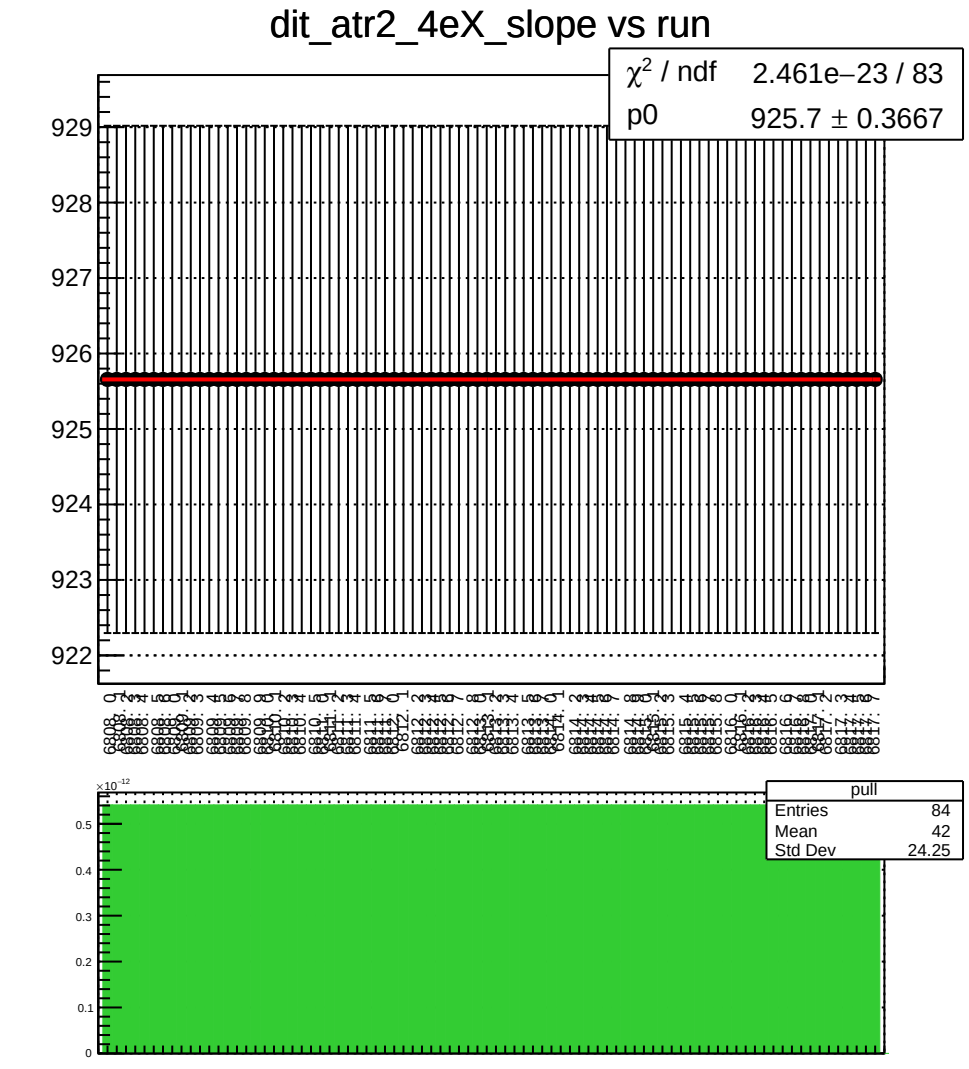

pull1D
Entries 84
Mean 4.288e−14
Std Dev2.396e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

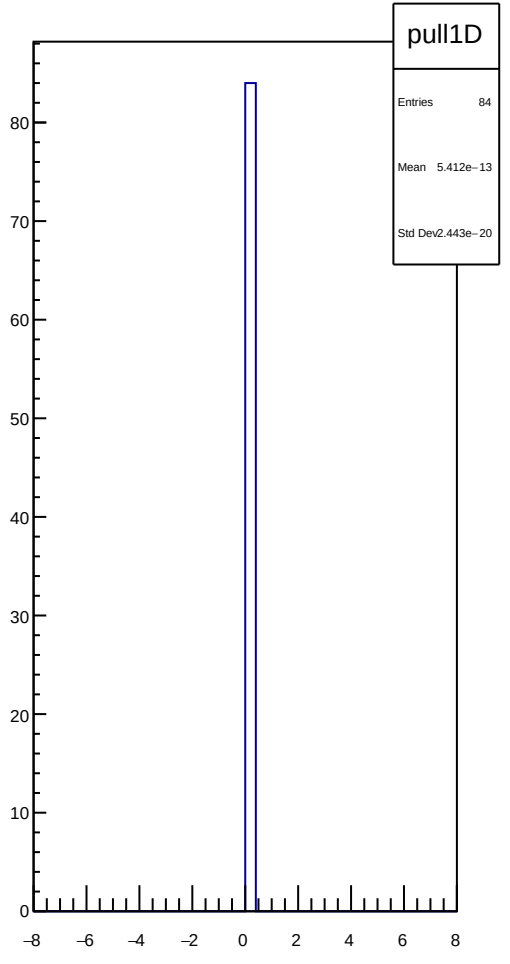

dit_atr1_4aY_slope vs run
χ² / ndf 0 / 83
p0 12.78 ± 0.06707
13.4
13.2
13
12.8
12.6
12.4
12.2
pull
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 84
Mean 0
Std Dev 0
80
70
60
50
40
30
20
10
0
–8
–6
–4
–2
0
2
4
6
8

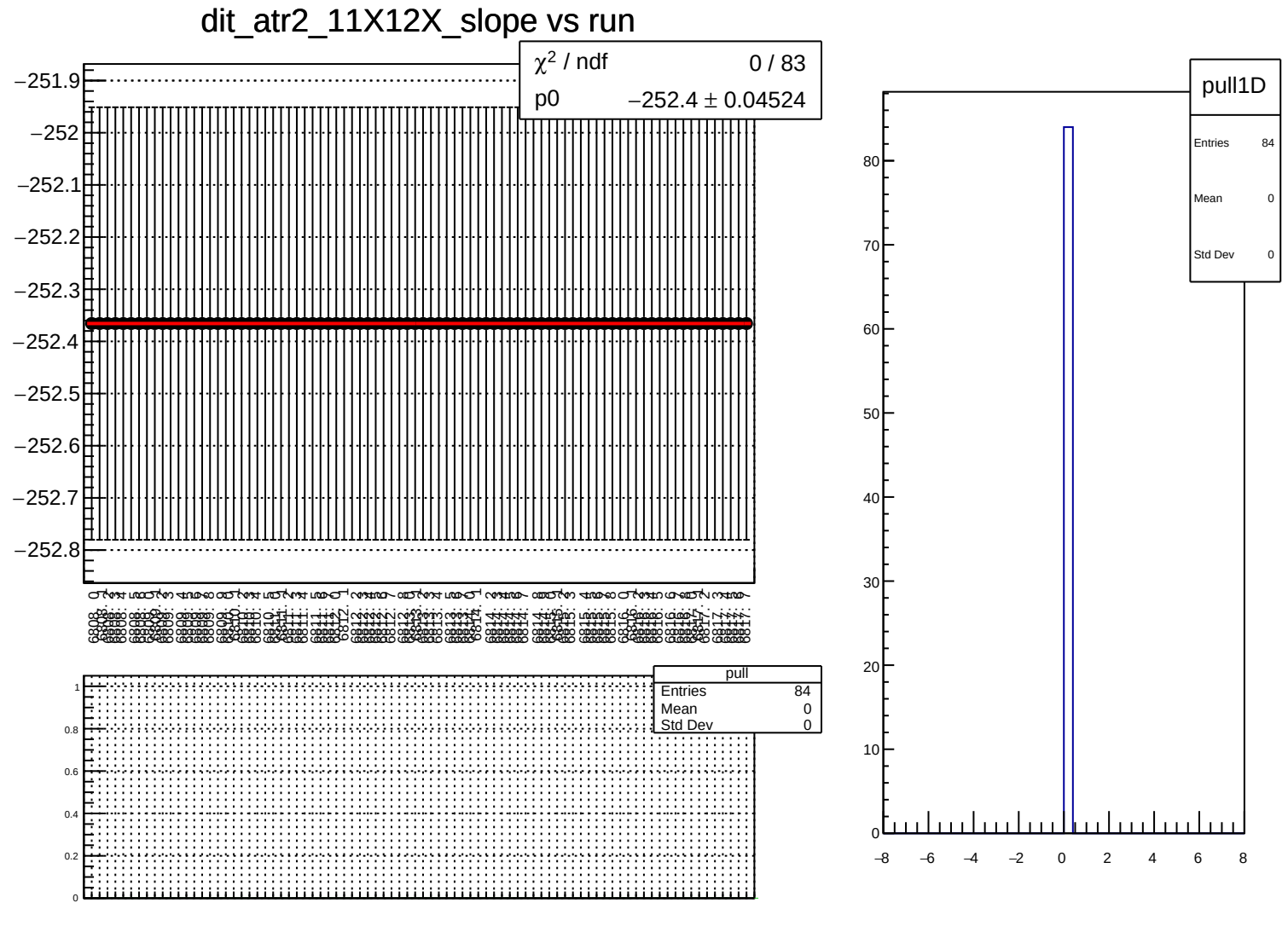

dit_atr1_4eY_slope vs run
χ² / ndf 5.189e−25 / 83
p0 −24.83 ± 0.05425
−24.4
−24.6
−24.8
−25
−25.2
−25.4
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
−80
pull1D
Entries 84
Mean −7.859e−14
Std Dev1.467e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

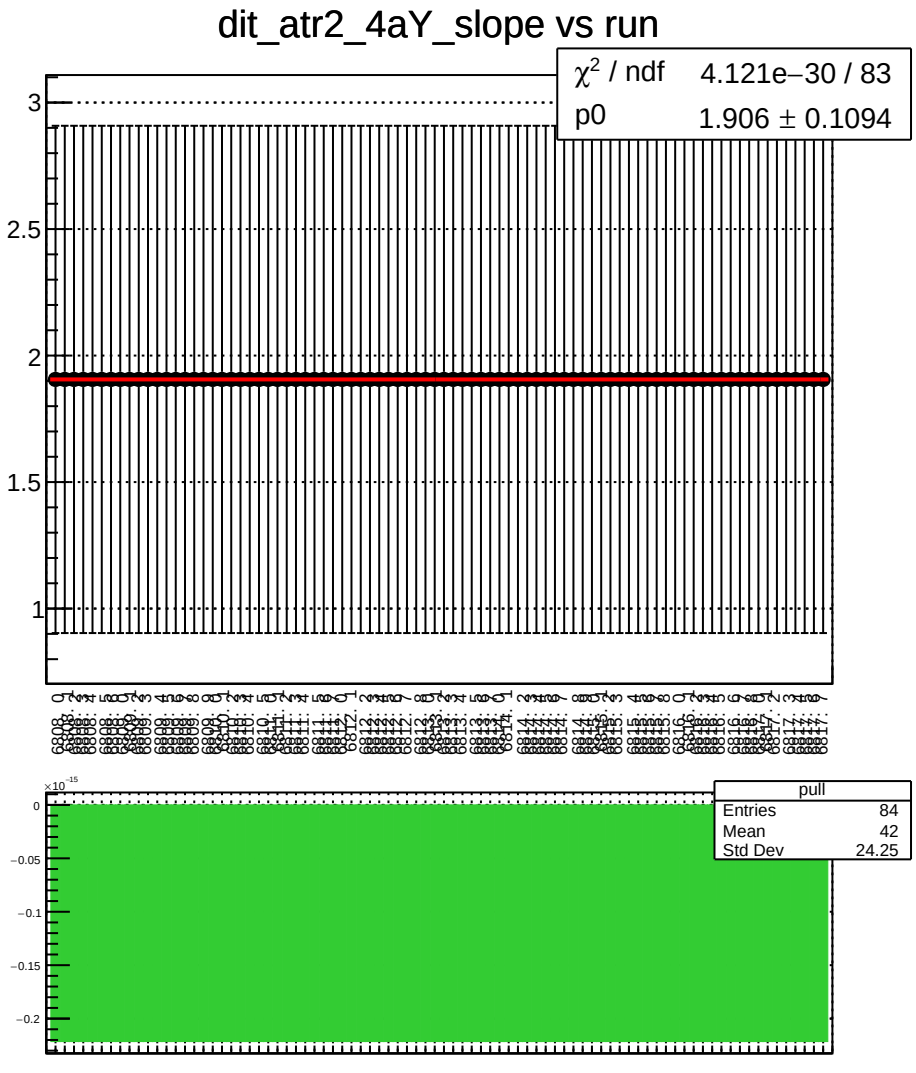

dit_atr2_4aX_slope vs run
χ² / ndf 6.421e−26 / 83
p0 −880.5 ± 0.4486
−876
−877
−878
−879
−880
−881
−882
−883
−884
−885
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
0
−5
−10
−15
−20
−25

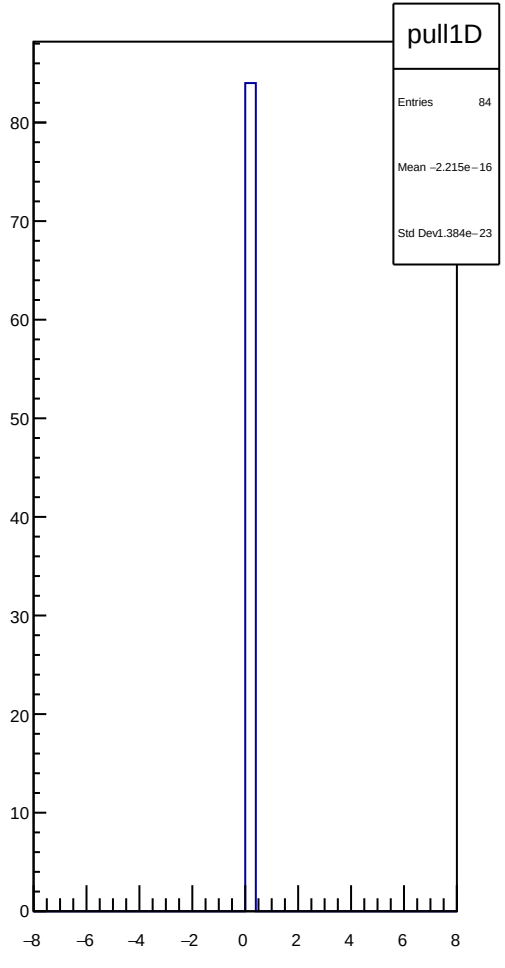

pull1D
Entries 84
Mean −2.765e−14
Std Dev 6.696e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

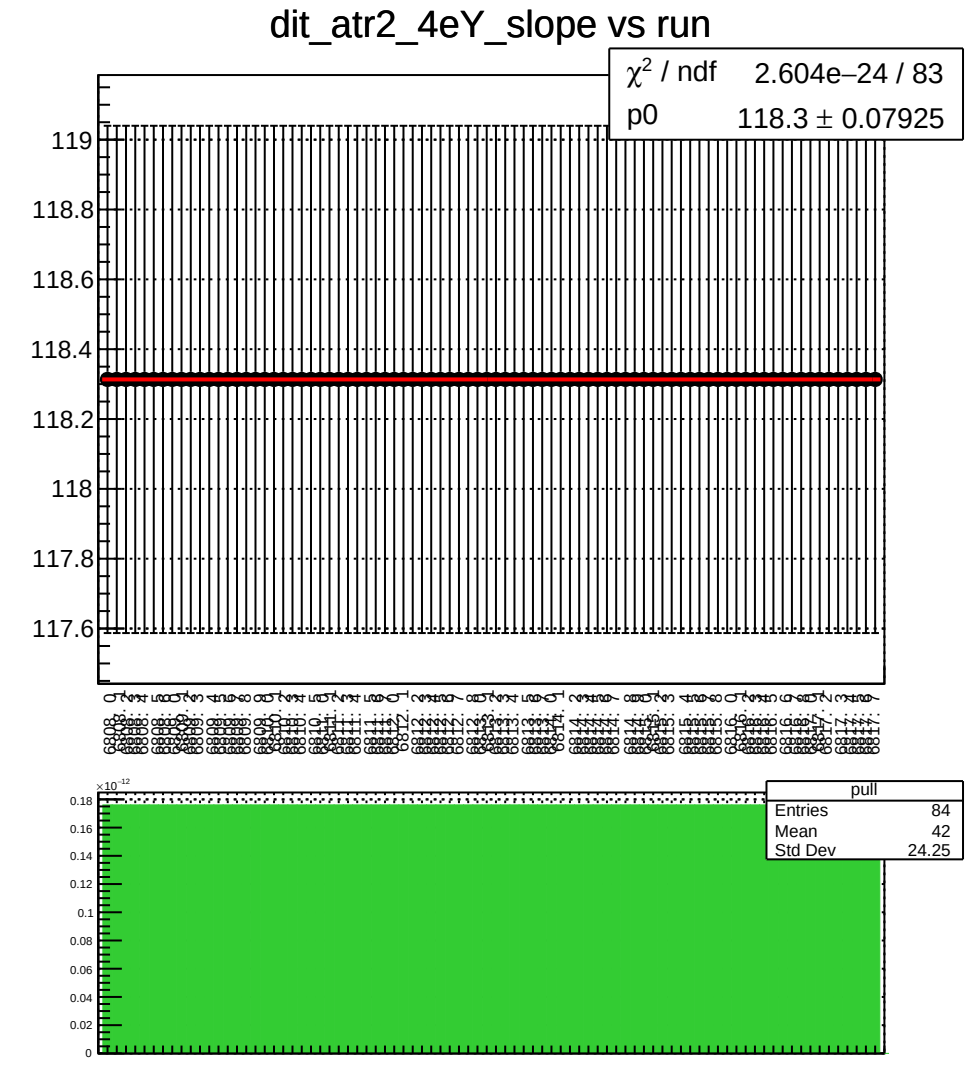

dit_atr2_4eX_slope vs run
χ² / ndf 2.461e−23 / 83
p0 925.7 ± 0.3667
929
928
927
926
925
924
923
922
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹²
0.5
0.4
0.3
0.2
0.1
0

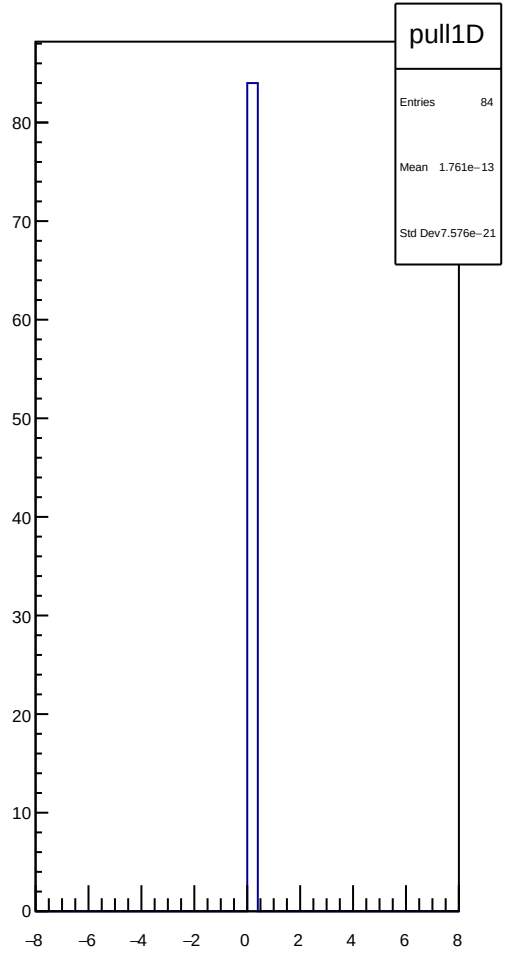

pull1D
Entries 84
Mean 5.412e−13
Std Dev 2.443e−20
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

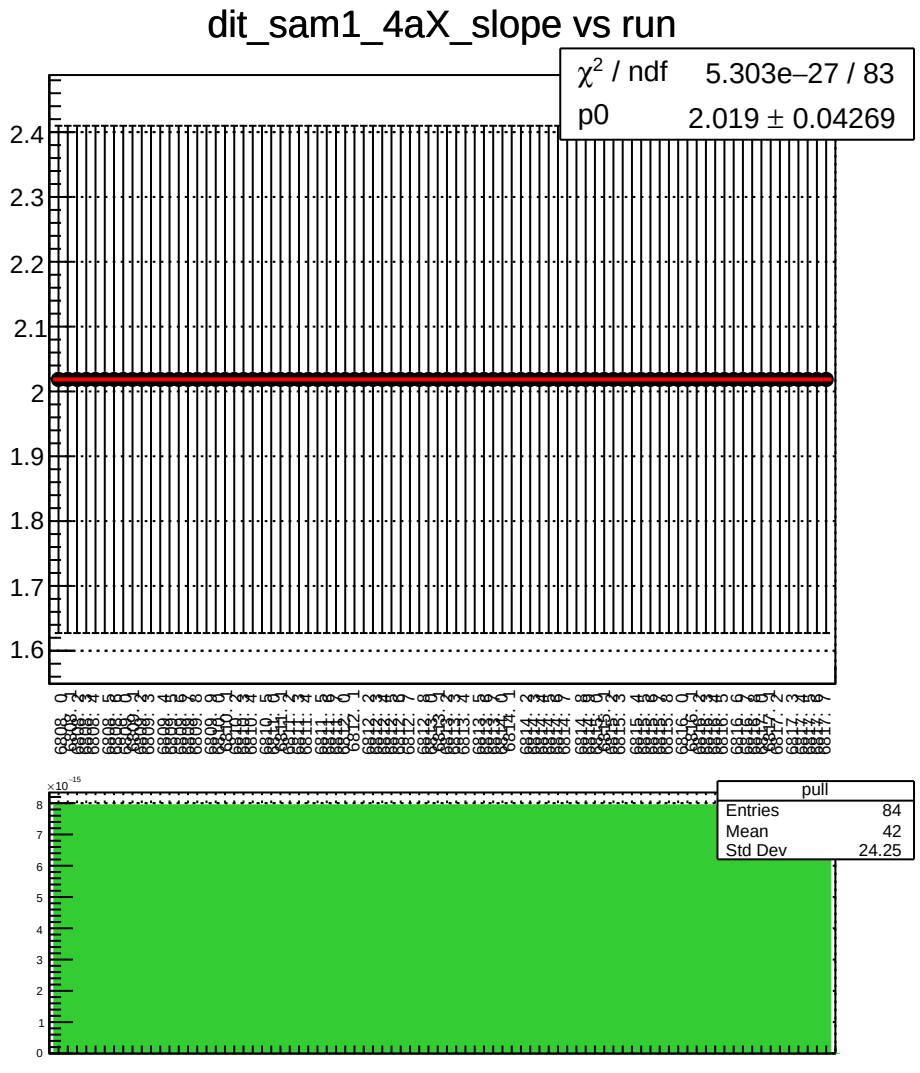

dit_atr2_11X12X_slope vs run
χ² / ndf 0 / 83
p0 −252.4 ± 0.04524
−251.9
−252
−252.1
−252.2
−252.3
−252.4
−252.5
−252.6
−252.7
−252.8
pull
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 84
Mean 0
Std Dev 0
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

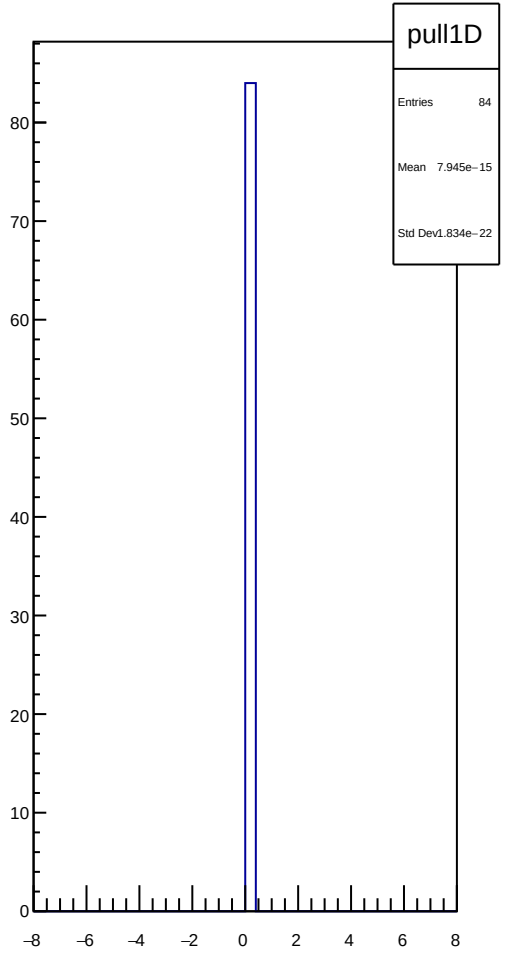

dit_atr2_4aY_slope vs run
χ² / ndf 4.121e−30 / 83
p0 1.906 ± 0.1094
pull
Entries 84
Mean 42
Std Dev 24.25

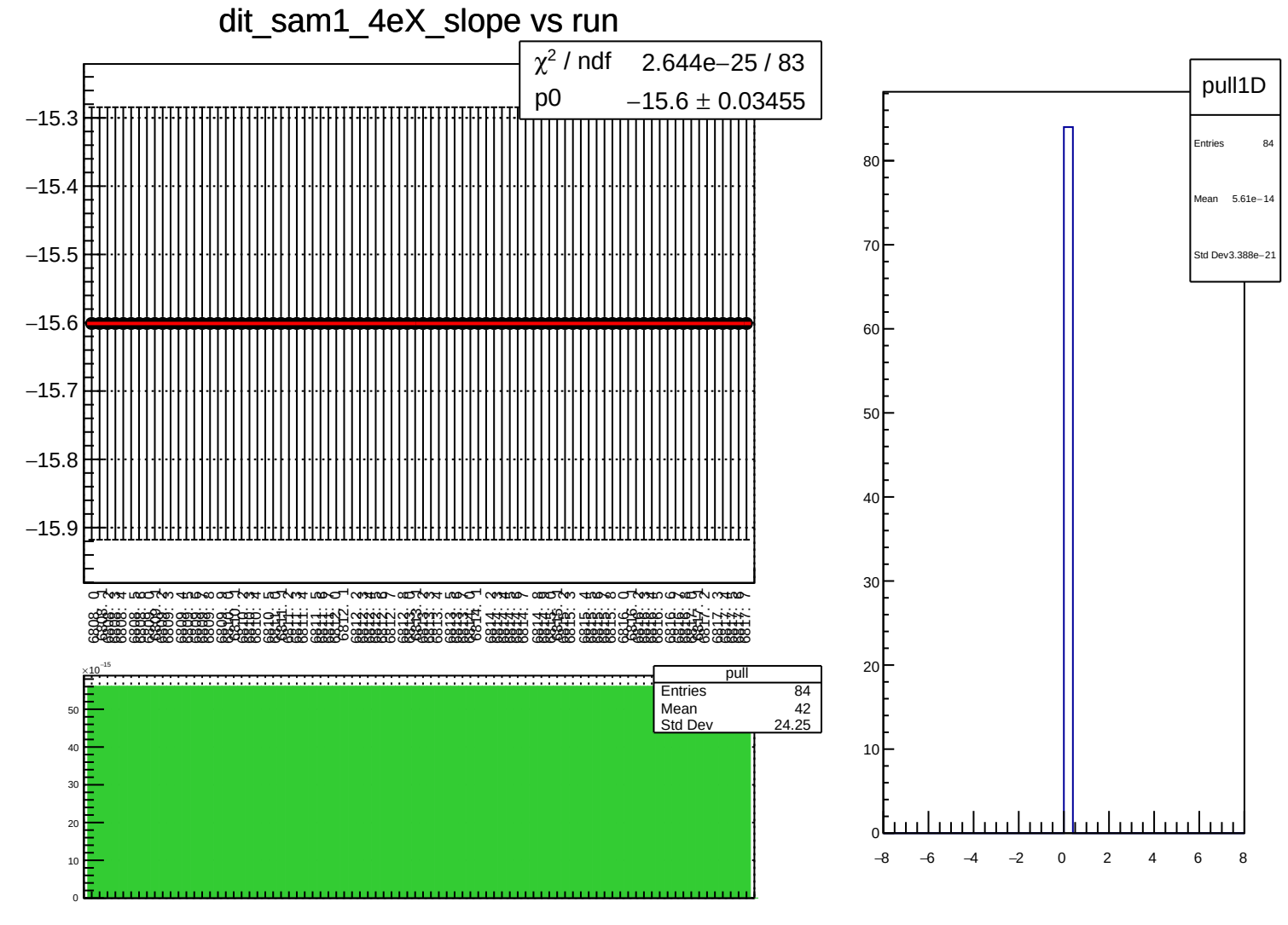

pull1D
Entries 84
Mean −2.215e−16
Std Dev1.384e−23

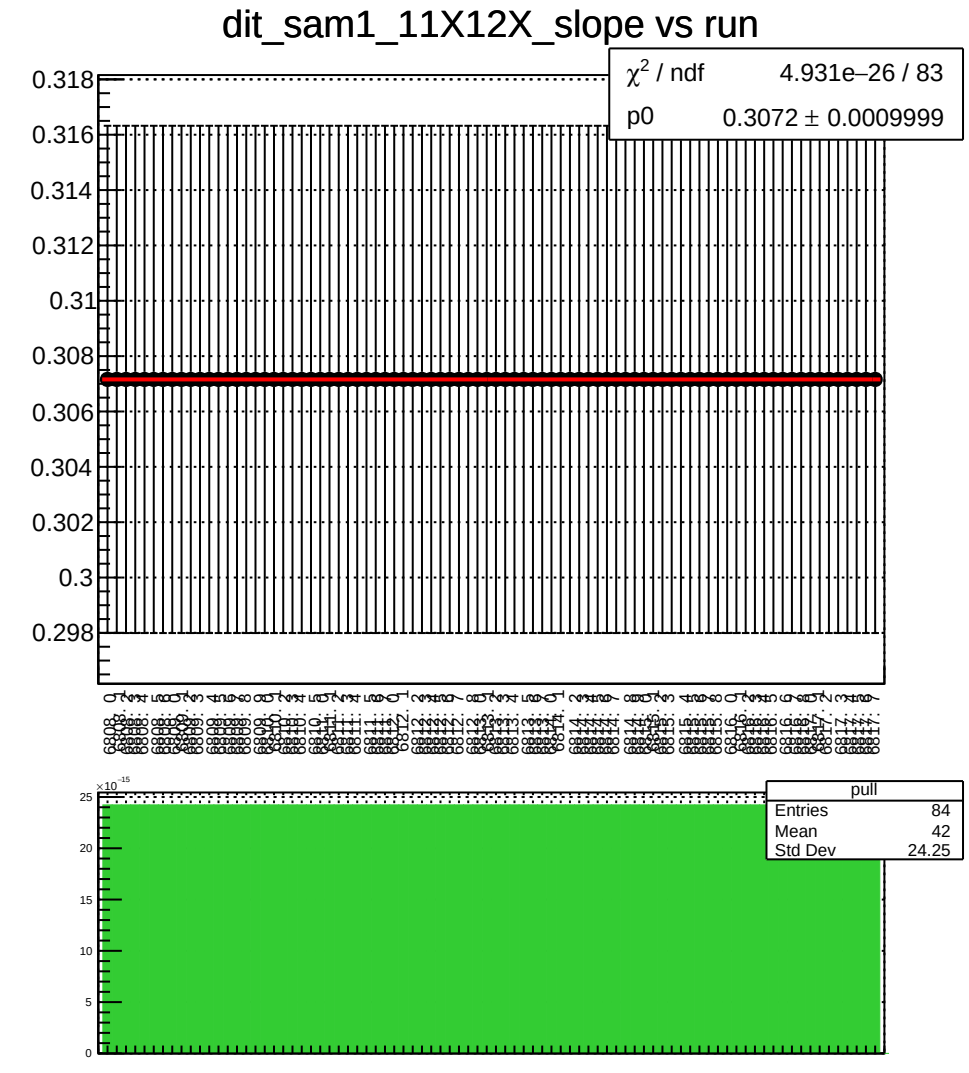

dit_atr2_4eY_slope vs run
χ² / ndf 2.604e−24 / 83
p0 118.3 ± 0.07925
119
118.8
118.6
118.4
118.2
118
117.8
117.6
×10⁻¹²
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 84
Mean 42
Std Dev 24.25

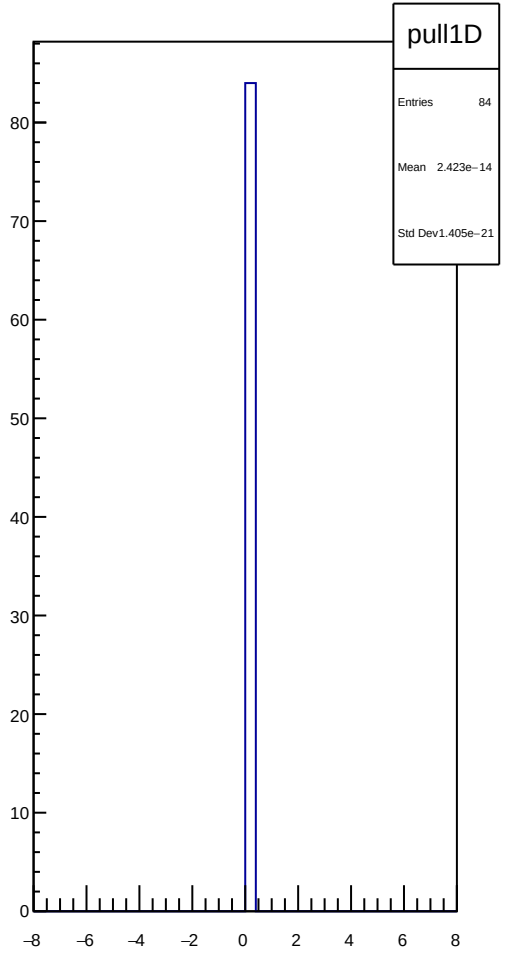

pull1D
Entries 84
Mean 1.761e−13
Std Dev7.576e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

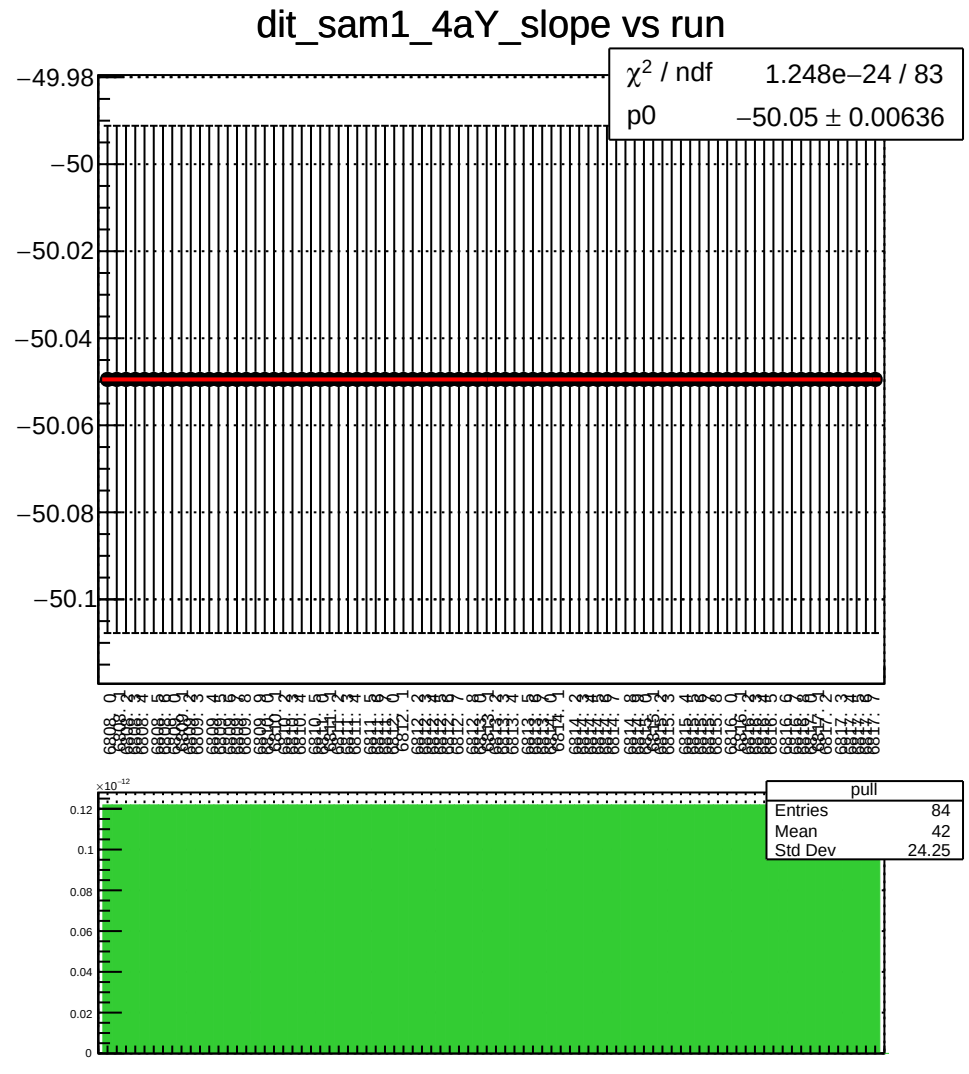

dit_sam1_4aX_slope vs run
χ² / ndf 5.303e−27 / 83
p0 2.019 ± 0.04269
pull
Entries 84
Mean 42
Std Dev 24.25

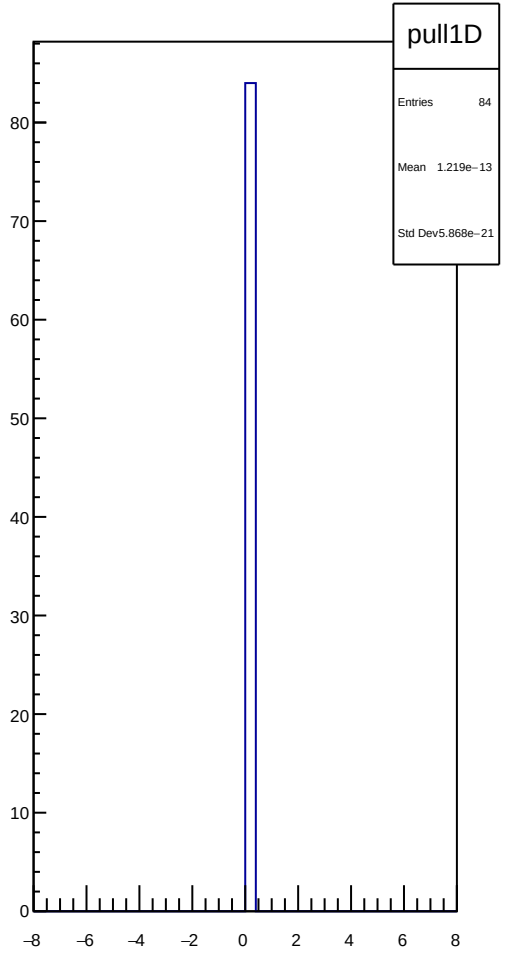

pull1D
Entries 84
Mean 7.945e−15
Std Dev1.834e−22

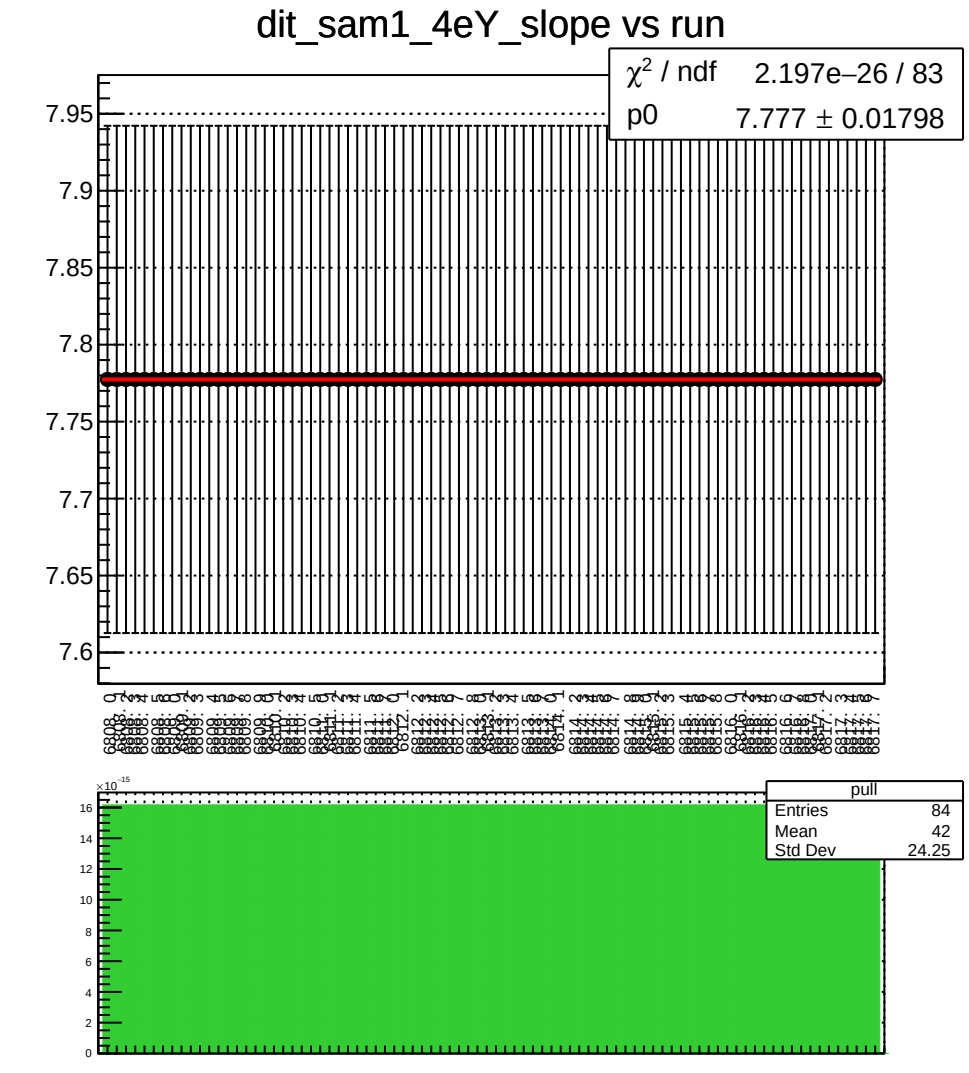

dit_sam1_4eX_slope vs run
χ^2 / ndf 2.644e−25 / 83
p0 −15.6 ± 0.03455
−15.3
−15.4
−15.5
−15.6
−15.7
−15.8
−15.9
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean 5.61e−14
Std Dev3.388e−21

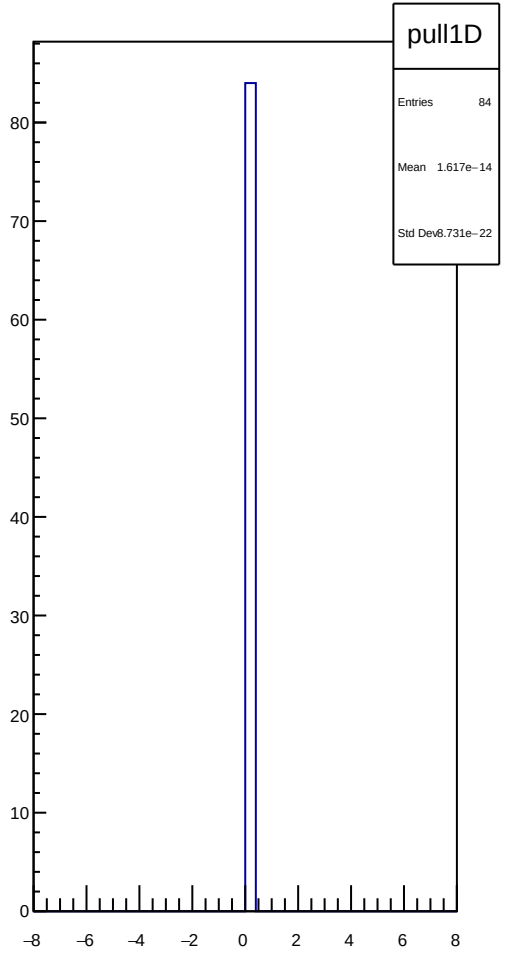

dit_sam1_11X12X_slope vs run
χ² / ndf 4.931e−26 / 83
p0 0.3072 ± 0.0009999
0.318
0.316
0.314
0.312
0.31
0.308
0.306
0.304
0.302
0.3
0.298
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
25
20
15
10
5
0

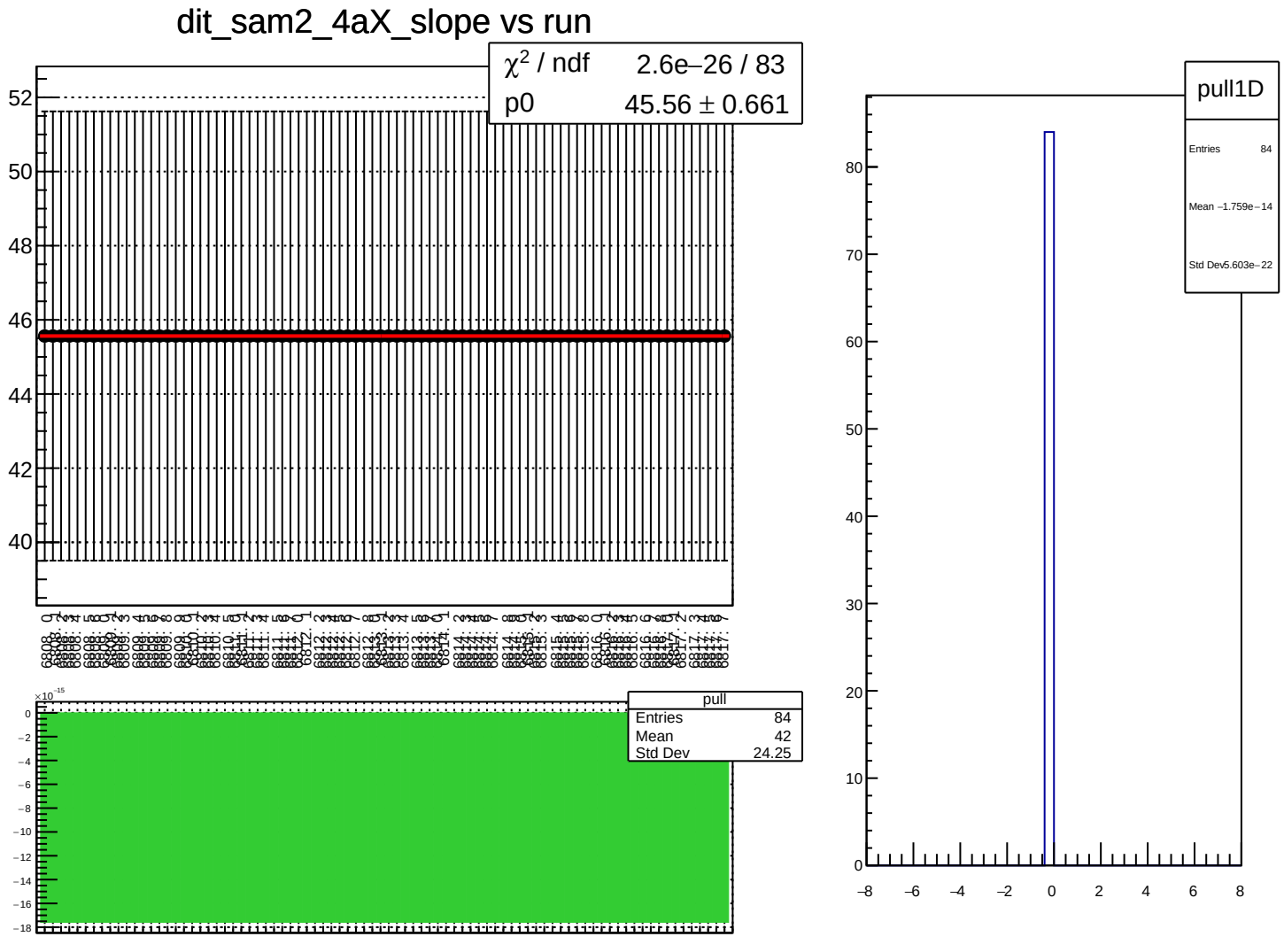

pull1D
Entries 84
Mean 2.423e−14
Std Dev1.405e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

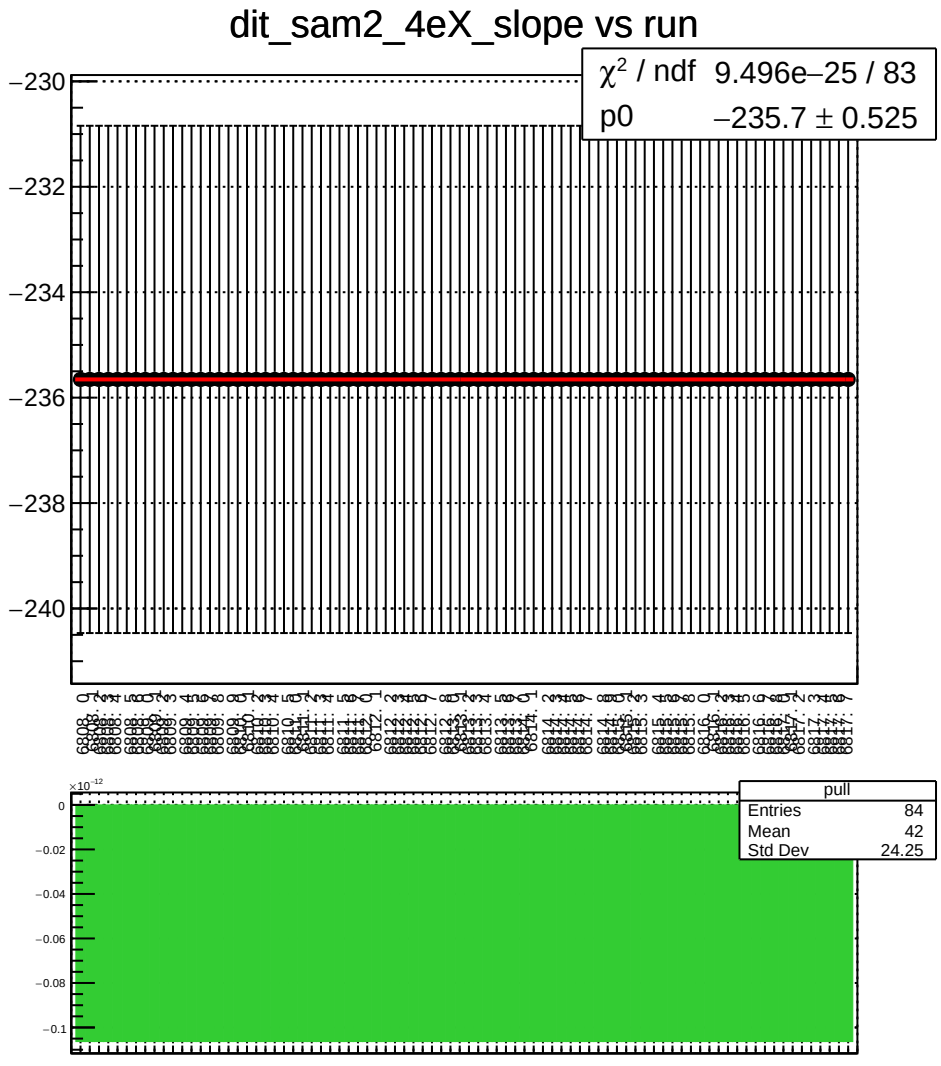

dit_sam1_4aY_slope vs run
χ² / ndf 1.248e−24 / 83
p0 −50.05 ± 0.00636
−49.98
−50
−50.02
−50.04
−50.06
−50.08
−50.1
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹²
0.12
0.1
0.08
0.06
0.04
0.02
0

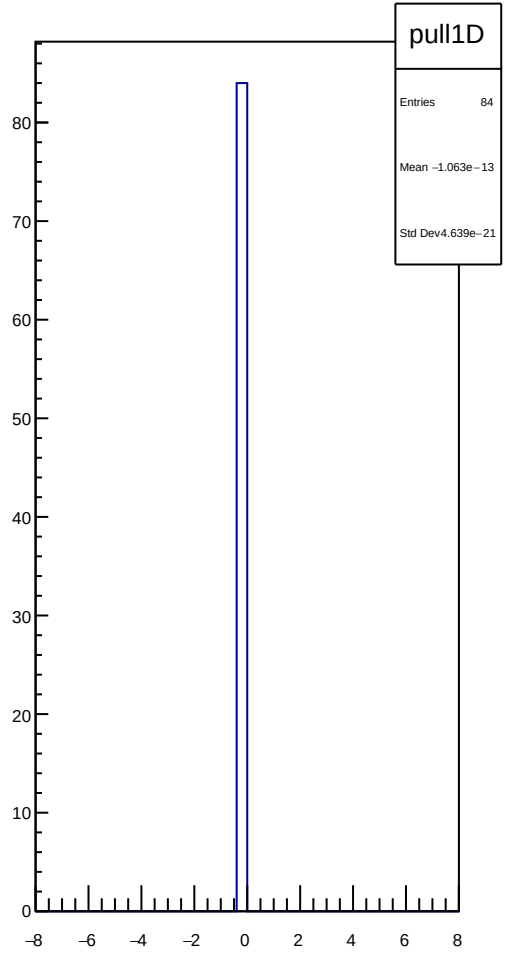

pull1D
Entries 84
Mean 1.219e−13
Std Dev5.868e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

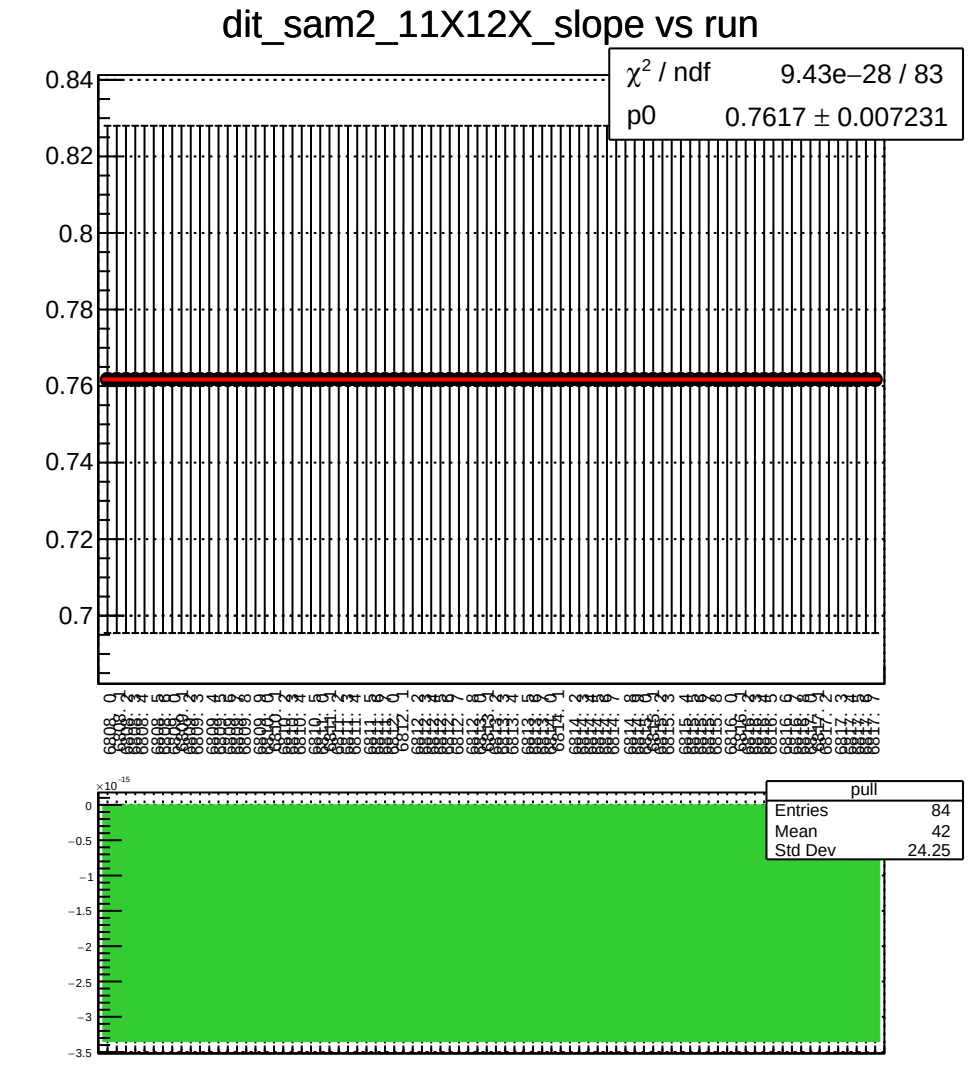

dit_sam1_4eY_slope vs run
χ² / ndf 2.197e−26 / 83
p0 7.777 ± 0.01798
7.95
7.9
7.85
7.8
7.75
7.7
7.65
7.6
×10⁻¹⁵
16
14
12
10
8
6
4
2
0
pull
Entries 84
Mean 42
Std Dev 24.25

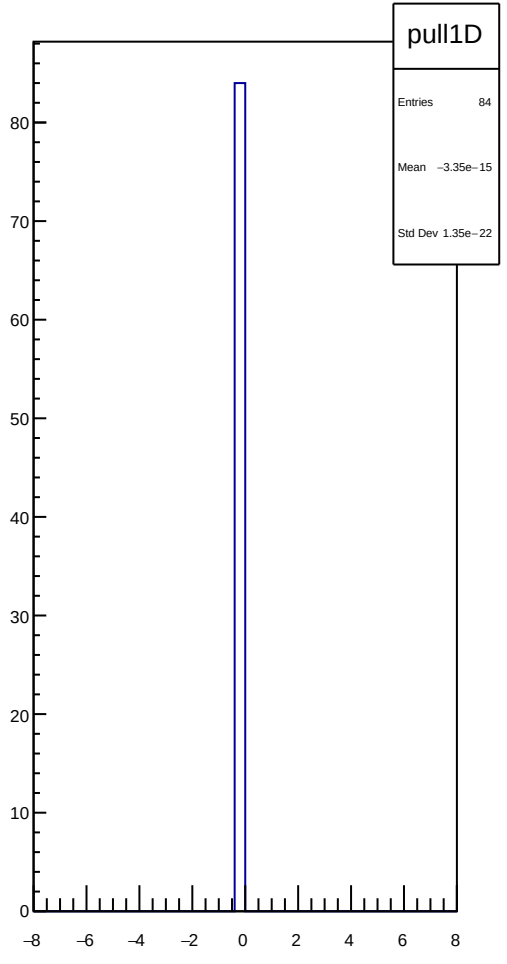

pull1D
Entries 84
Mean 1.617e−14
Std Dev 8.731e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

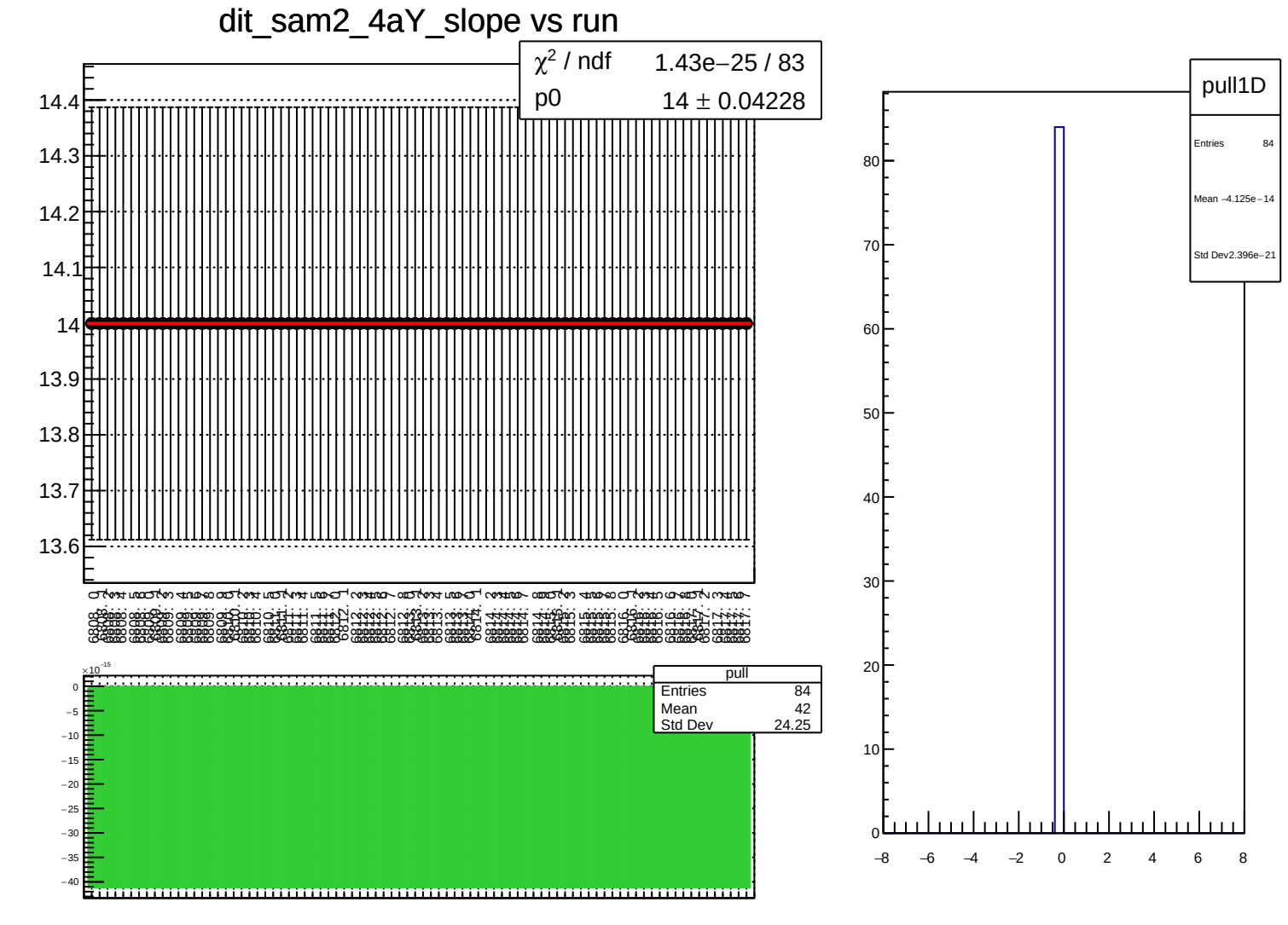

dit_sam2_4aX_slope vs run
χ² / ndf 2.6e−26 / 83
p0 45.56 ± 0.661
52
50
48
46
44
42
40
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull1D
Entries 84
Mean −1.759e−14
Std Dev5.603e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

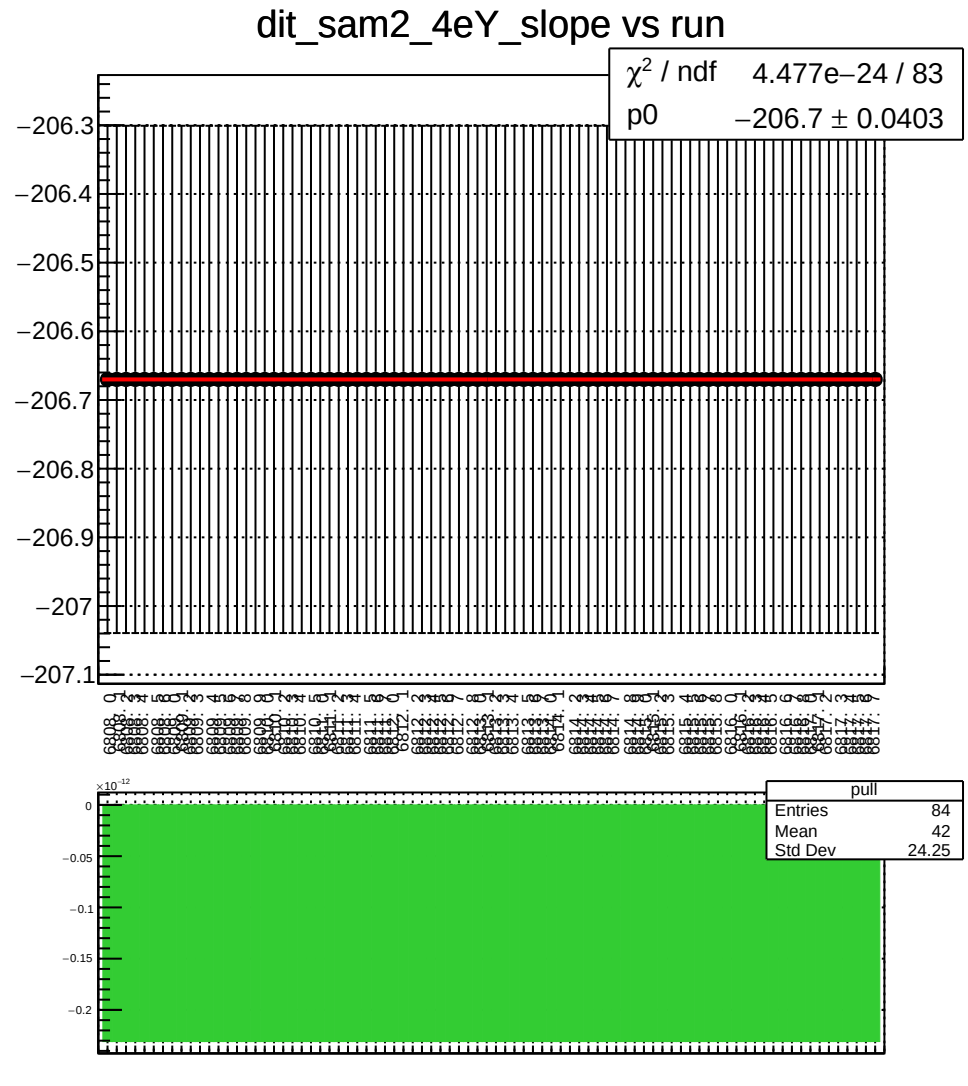

dit_sam2_4eX_slope vs run
χ² / ndf 9.496e−25 / 83
p0 −235.7 ± 0.525
−230
−232
−234
−236
−238
−240
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1

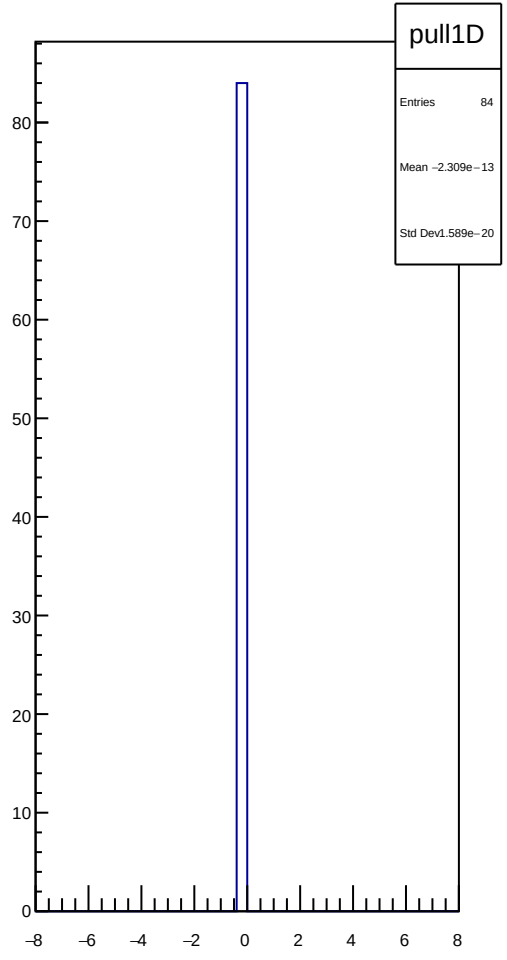

pull1D
Entries 84
Mean −1.063e−13
Std Dev4.639e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

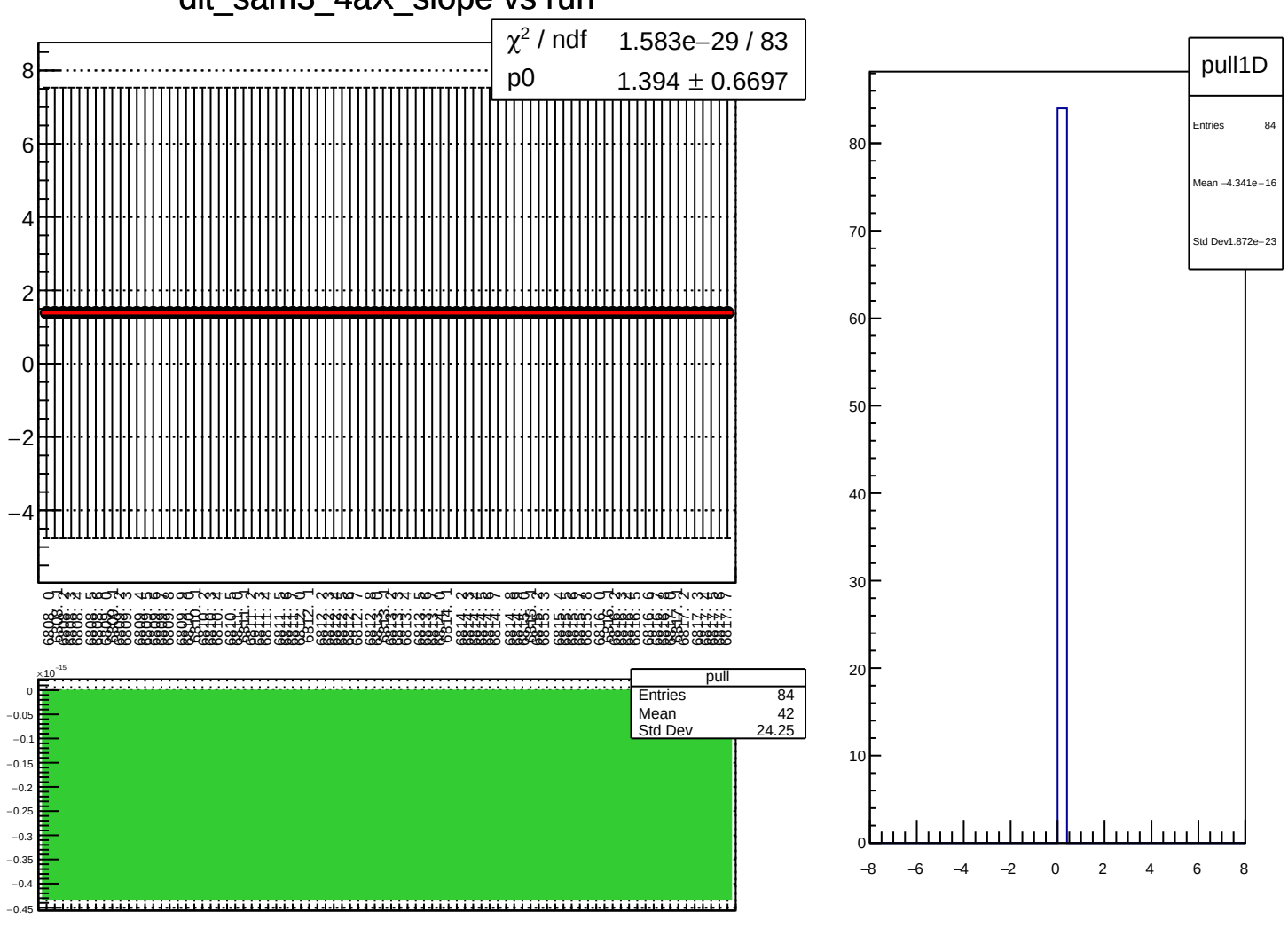

dit_sam2_11X12X_slope vs run
χ² / ndf 9.43e−28 / 83
p0 0.7617 ± 0.007231
0.84
0.82
0.8
0.78
0.76
0.74
0.72
0.7
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5

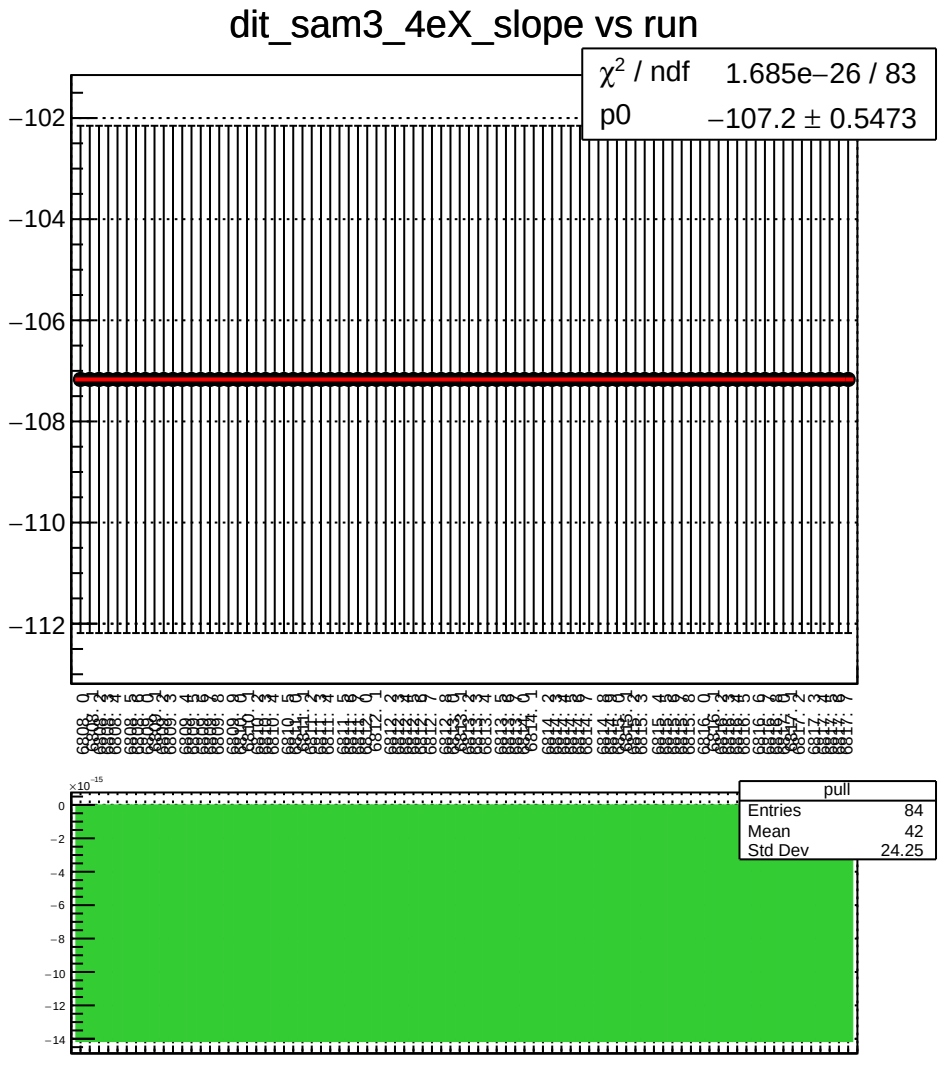

pull1D
Entries 84
Mean −3.35e−15
Std Dev 1.35e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

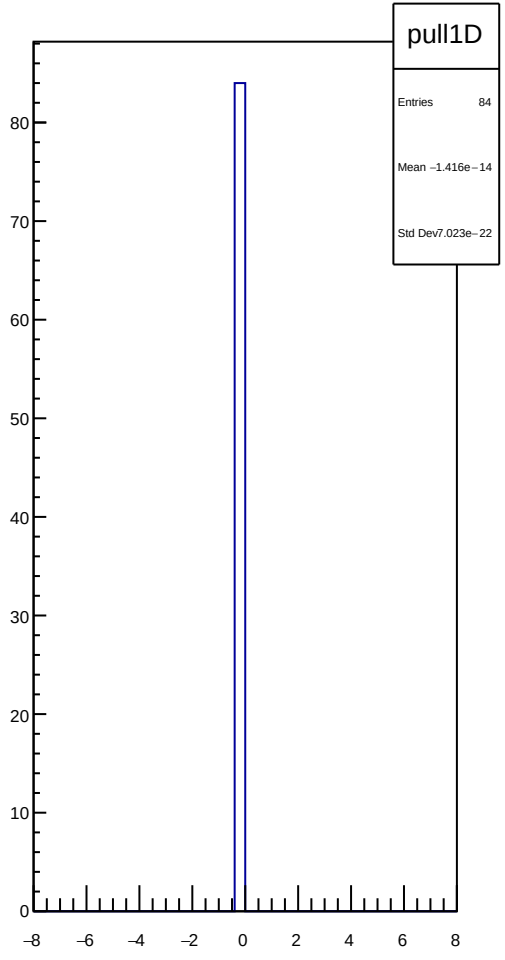

dit_sam2_4aY_slope vs run
χ² / ndf 1.43e−25 / 83
p0 14 ± 0.04228
14.4
14.3
14.2
14.1
14
13.9
13.8
13.7
13.6
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
−40
pull1D
Entries 84
Mean −4.125e−14
Std Dev2.396e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

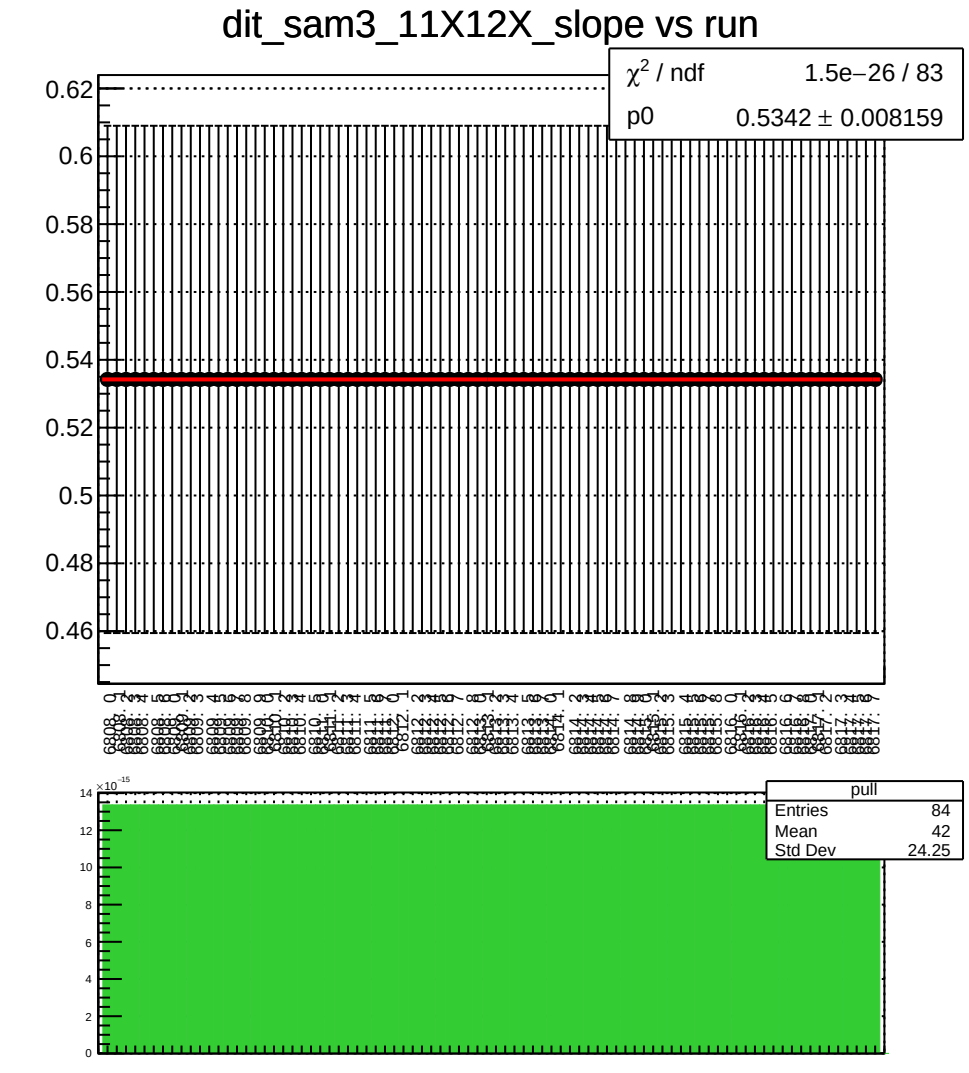

dit_sam2_4eY_slope vs run
χ² / ndf 4.477e−24 / 83
p0 −206.7 ± 0.0403
−206.3
−206.4
−206.5
−206.6
−206.7
−206.8
−206.9
−207
−207.1
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2

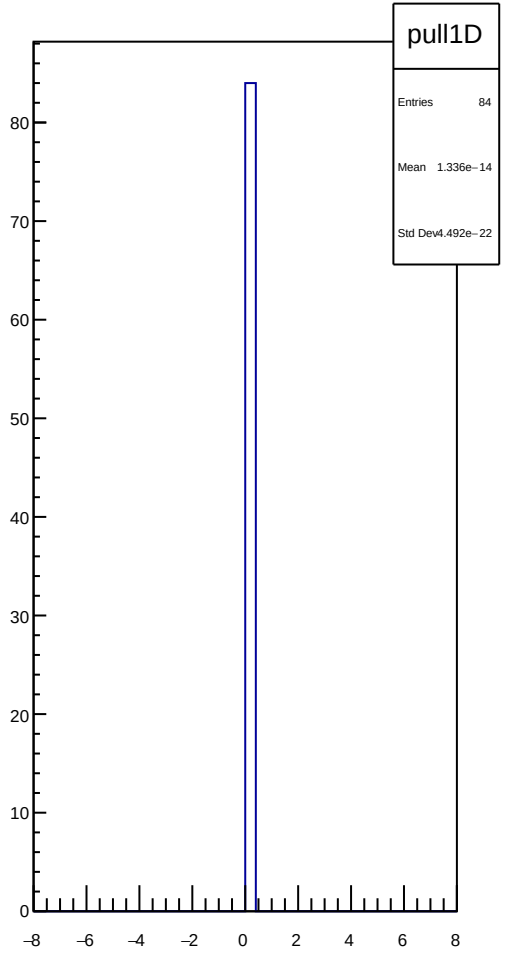

pull1D
Entries 84
Mean −2.309e−13
Std Dev1.589e−20
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

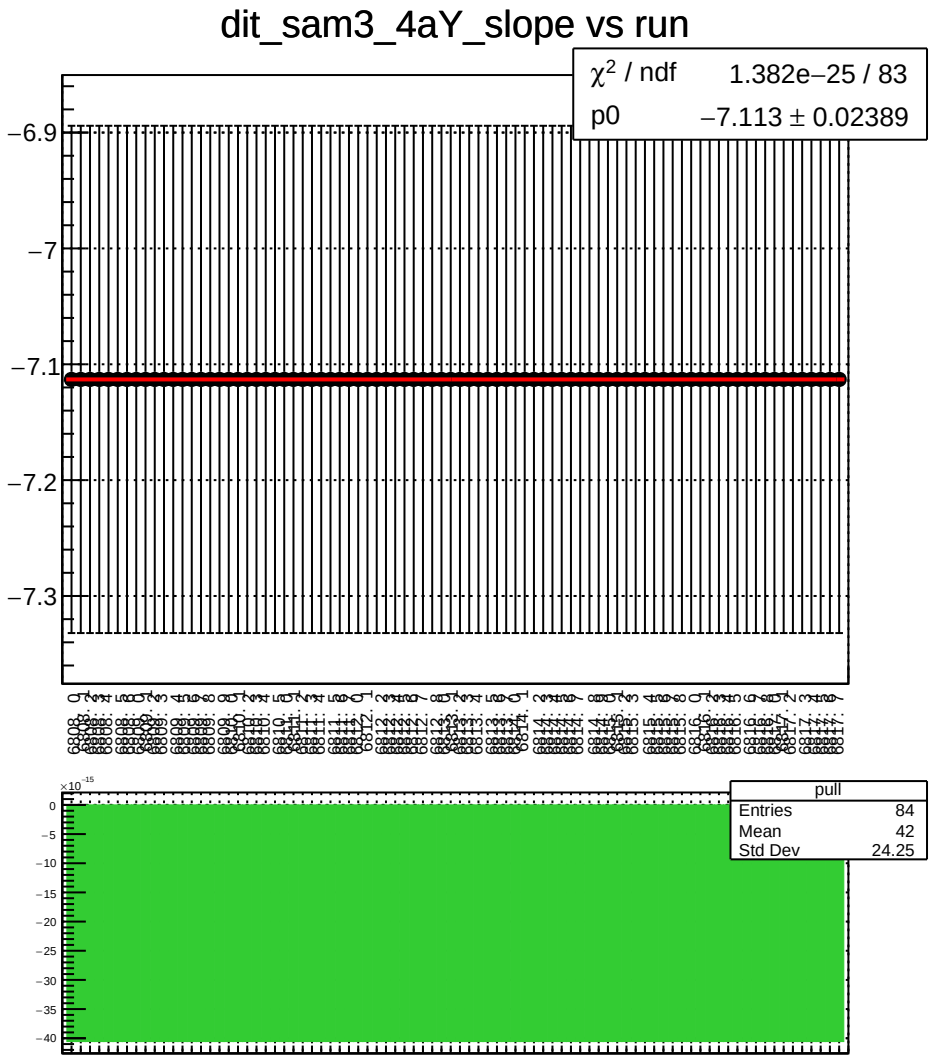

dit_sam3_4aX_slope vs run
χ² / ndf 1.583e−29 / 83
p0 1.394 ± 0.6697
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean −4.341e−16
Std Dev1.872e−23

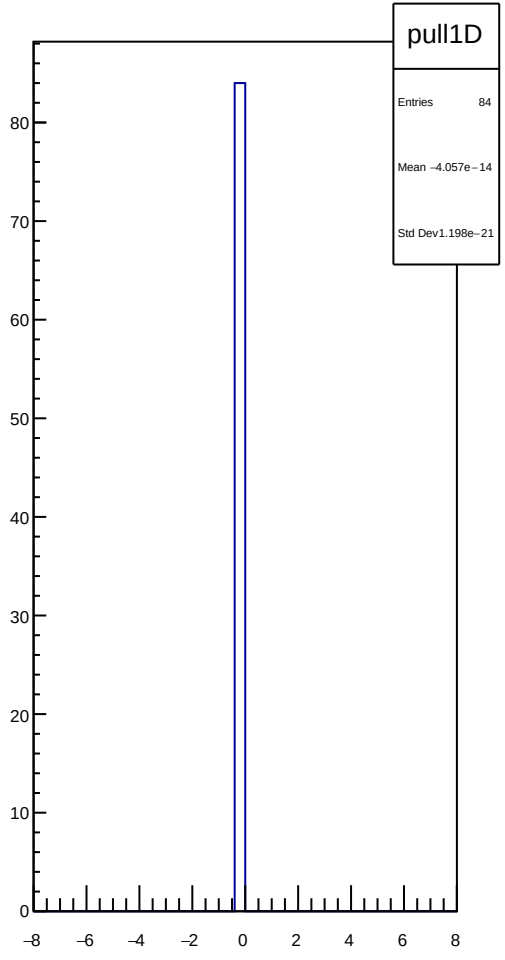

dit_sam3_4eX_slope vs run
χ^2 / ndf 1.685e−26 / 83
p0 −107.2 ± 0.5473
−102
−104
−106
−108
−110
−112
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14

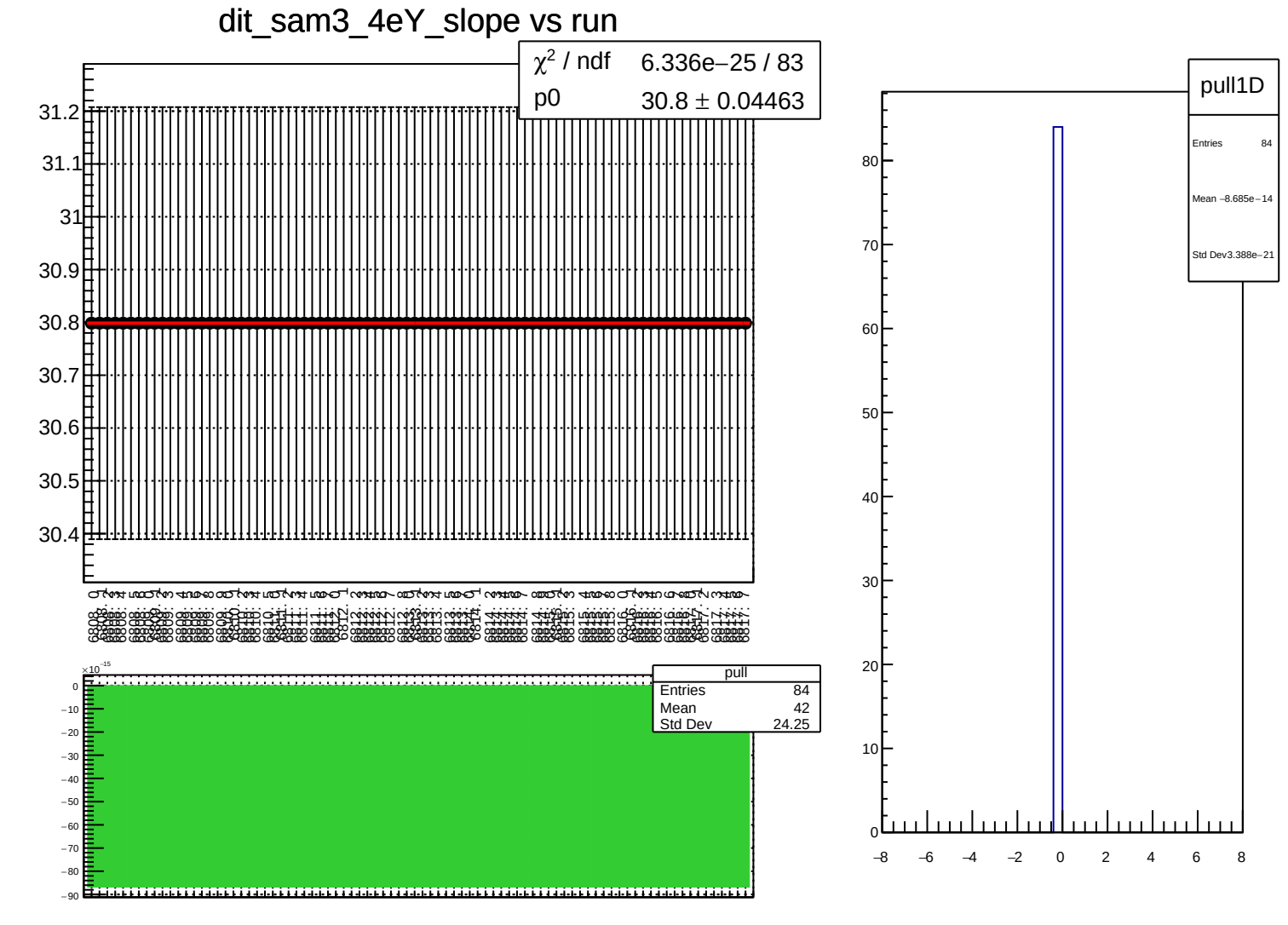

pull1D
Entries 84
Mean −1.416e−14
Std Dev7.023e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

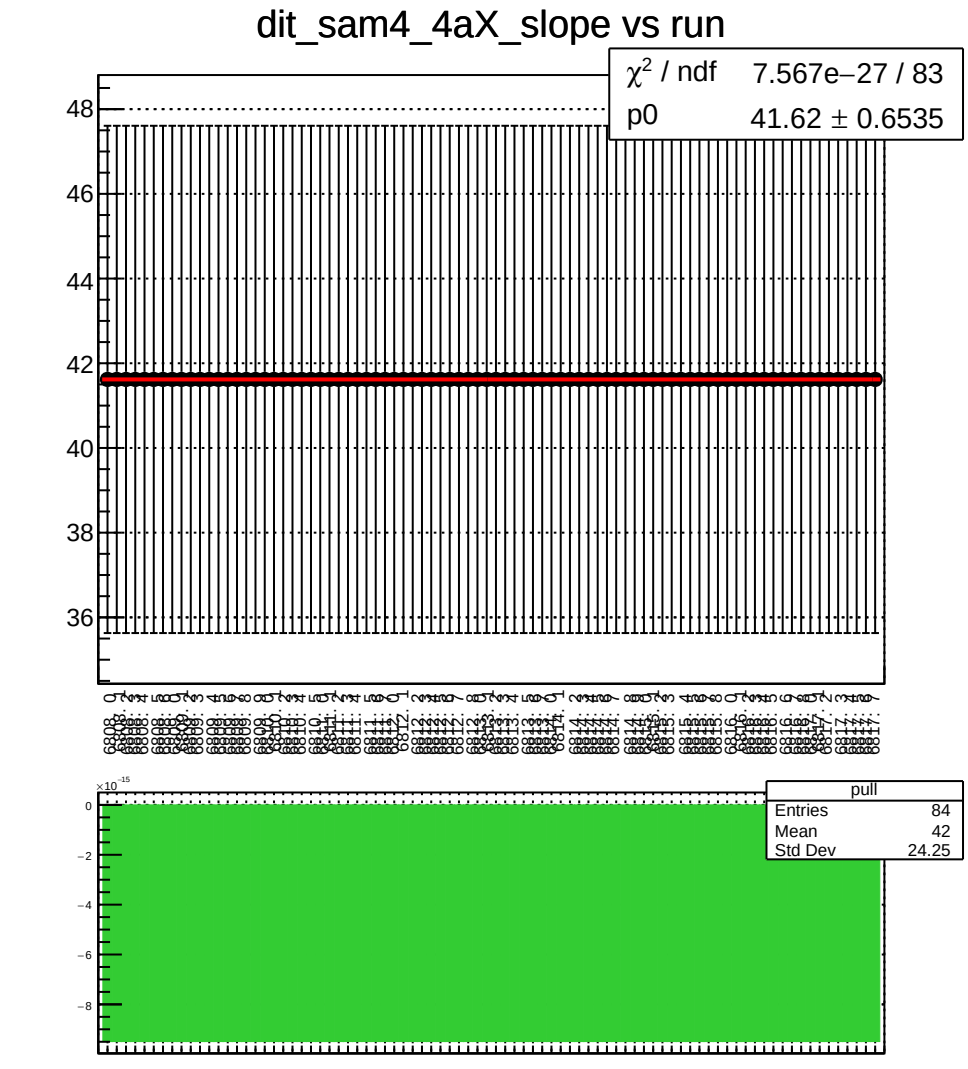

dit_sam3_11X12X_slope vs run
χ² / ndf 1.5e−26 / 83
p0 0.5342 ± 0.008159
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48
0.46
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
14
12
10
8
6
4
2
0

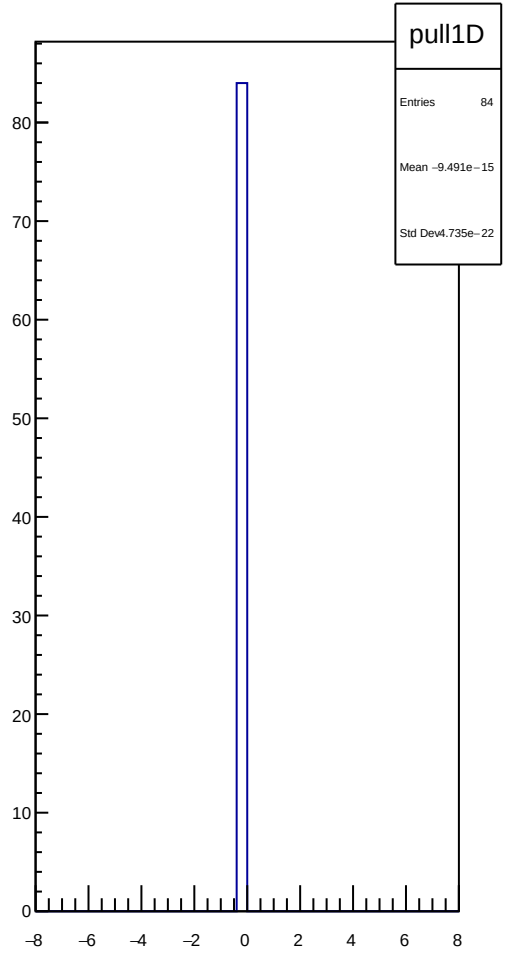

pull1D
Entries 84
Mean 1.336e−14
Std Dev4.492e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

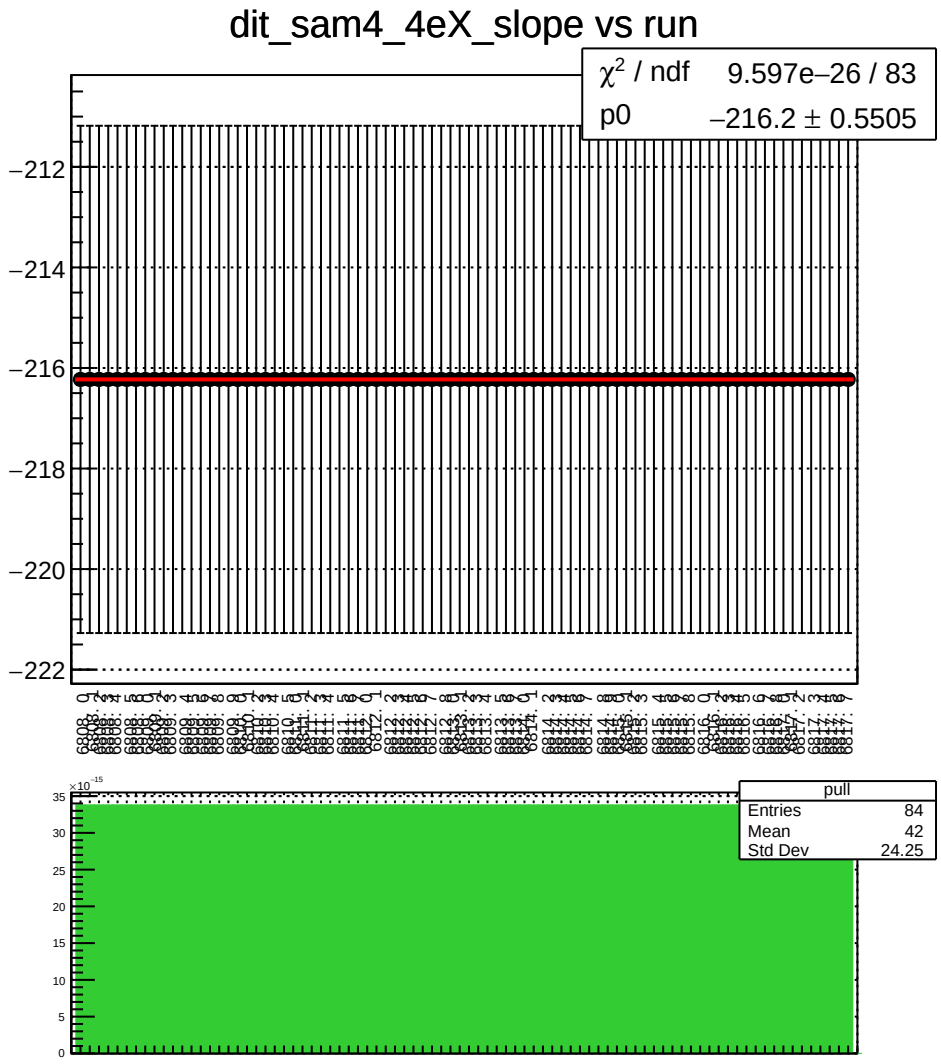

dit_sam3_4aY_slope vs run
χ² / ndf 1.382e−25 / 83
p0 −7.113 ± 0.02389
−6.9
−7
−7.1
−7.2
−7.3
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
−40

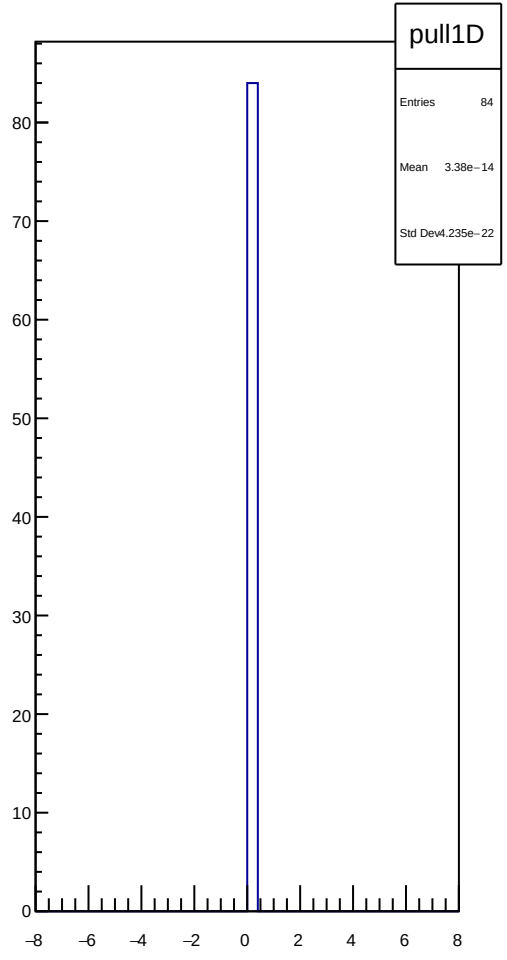

pull1D
Entries 84
Mean −4.057e−14
Std Dev1.198e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

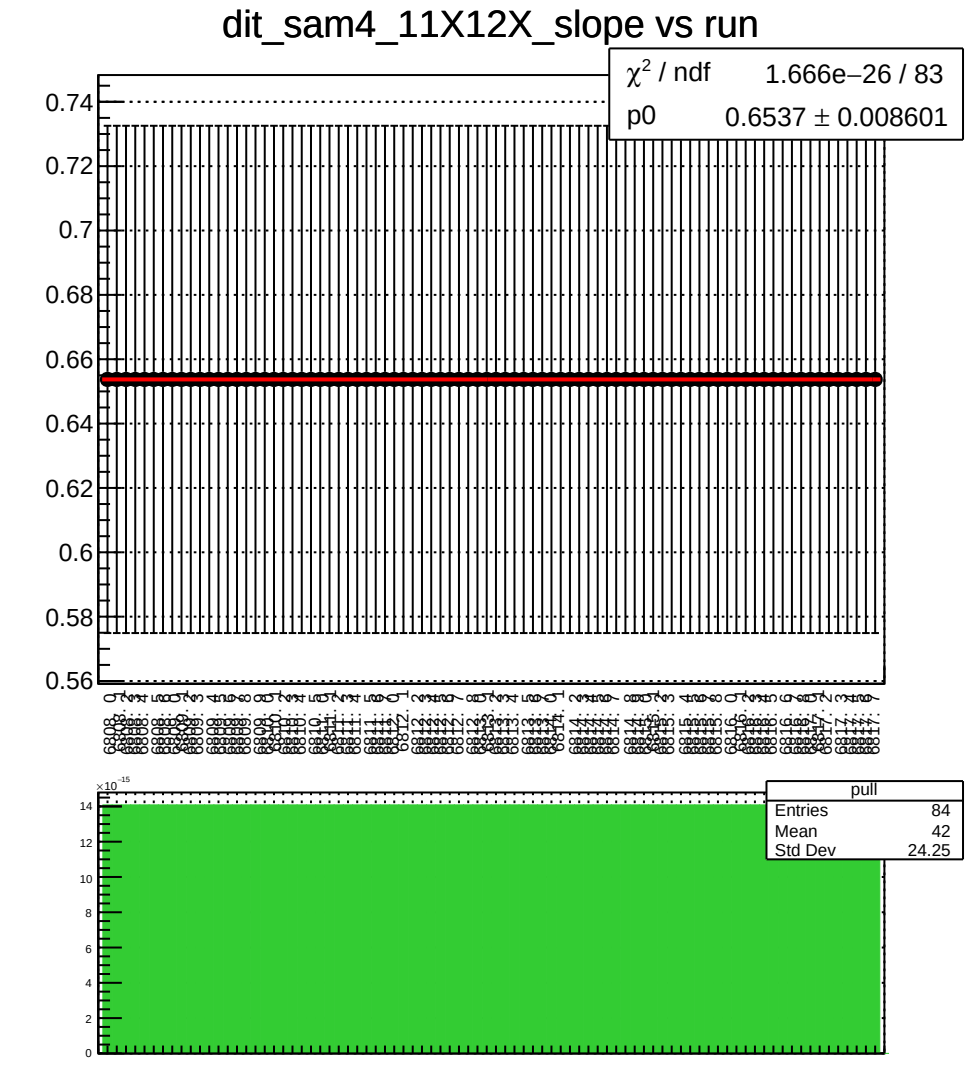

dit_sam3_4eY_slope vs run
χ² / ndf 6.336e−25 / 83
p0 30.8 ± 0.04463
31.2
31.1
31
30.9
30.8
30.7
30.6
30.5
30.4
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
pull1D
Entries 84
Mean −8.685e−14
Std Dev3.388e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

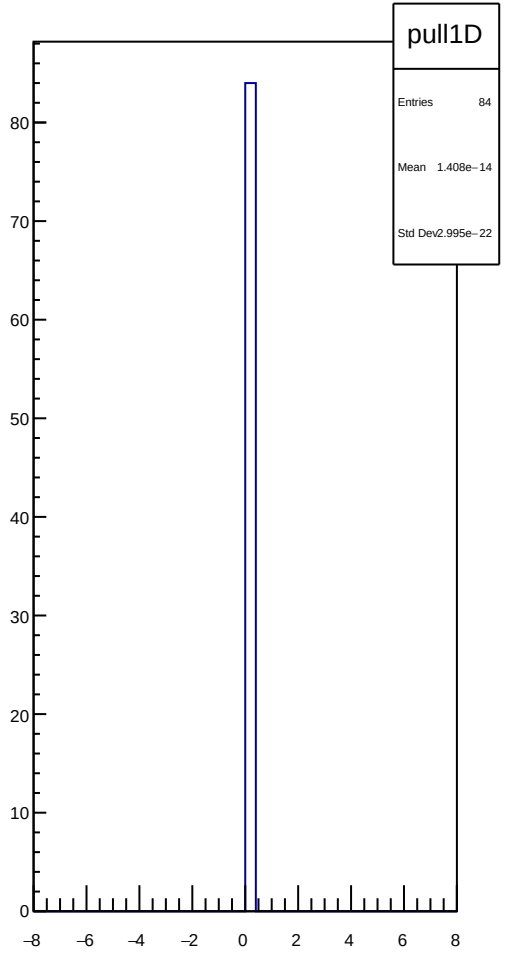

dit_sam4_4aX_slope vs run
χ^2 / ndf 7.567e−27 / 83
p0 41.62 ± 0.6535
48
46
44
42
40
38
36
×10^-15
0
−2
−4
−6
−8
pull
Entries 84
Mean 42
Std Dev 24.25

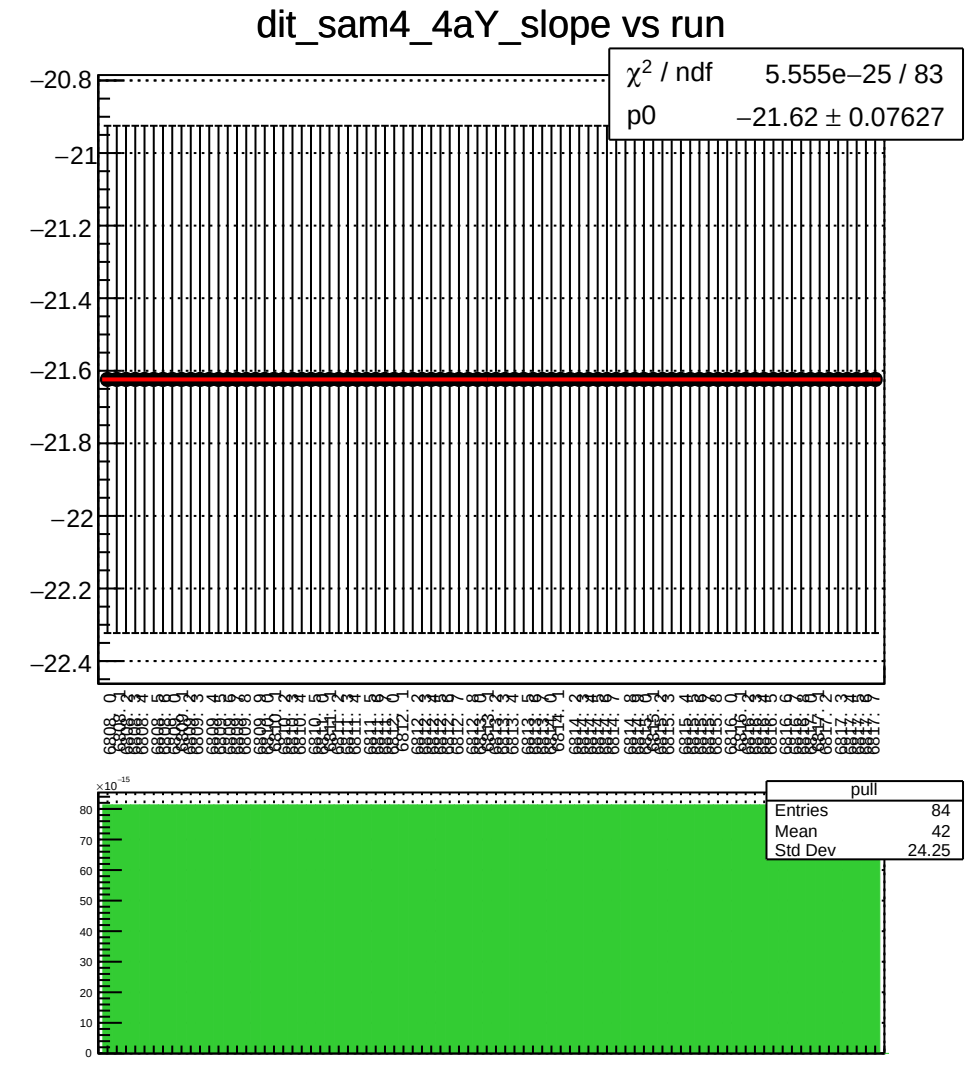

pull1D
Entries 84
Mean −9.491e−15
Std Dev4.735e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

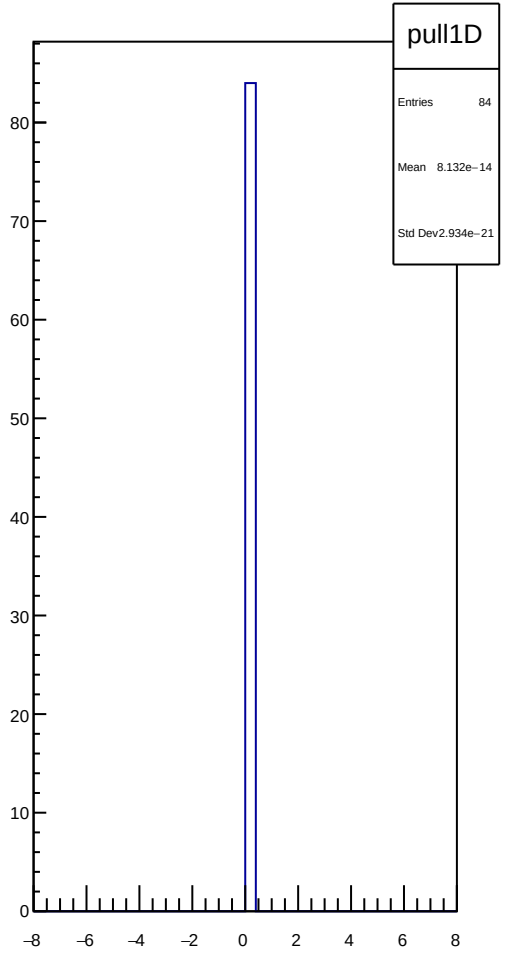

dit_sam4_4eX_slope vs run
χ² / ndf 9.597e−26 / 83
p0 −216.2 ± 0.5505
−212
−214
−216
−218
−220
−222
×10⁻¹⁵
35
30
25
20
15
10
5
0
pull
Entries 84
Mean 42
Std Dev 24.25

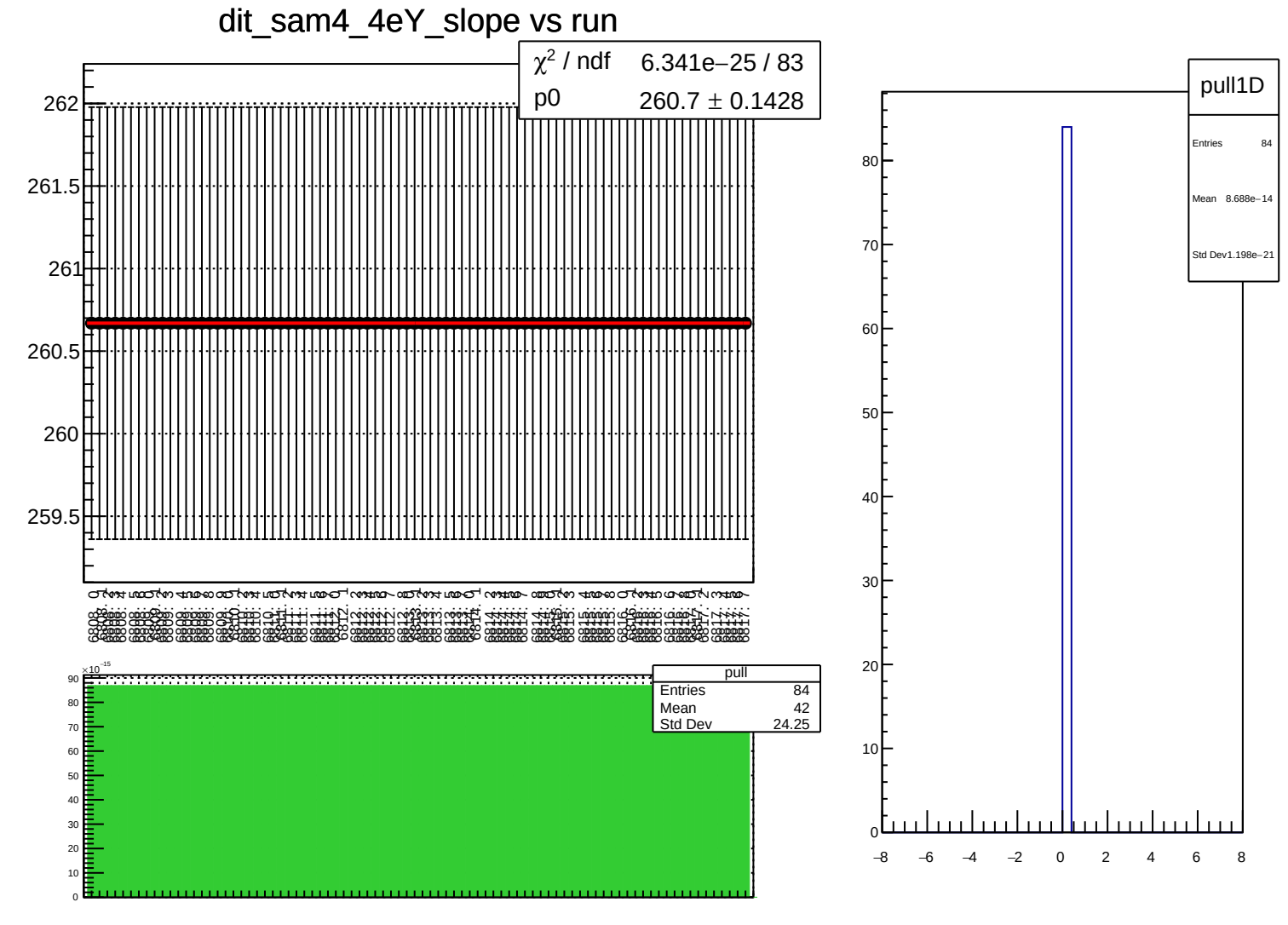

pull1D
Entries 84
Mean 3.38e−14
Std Dev 4.235e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

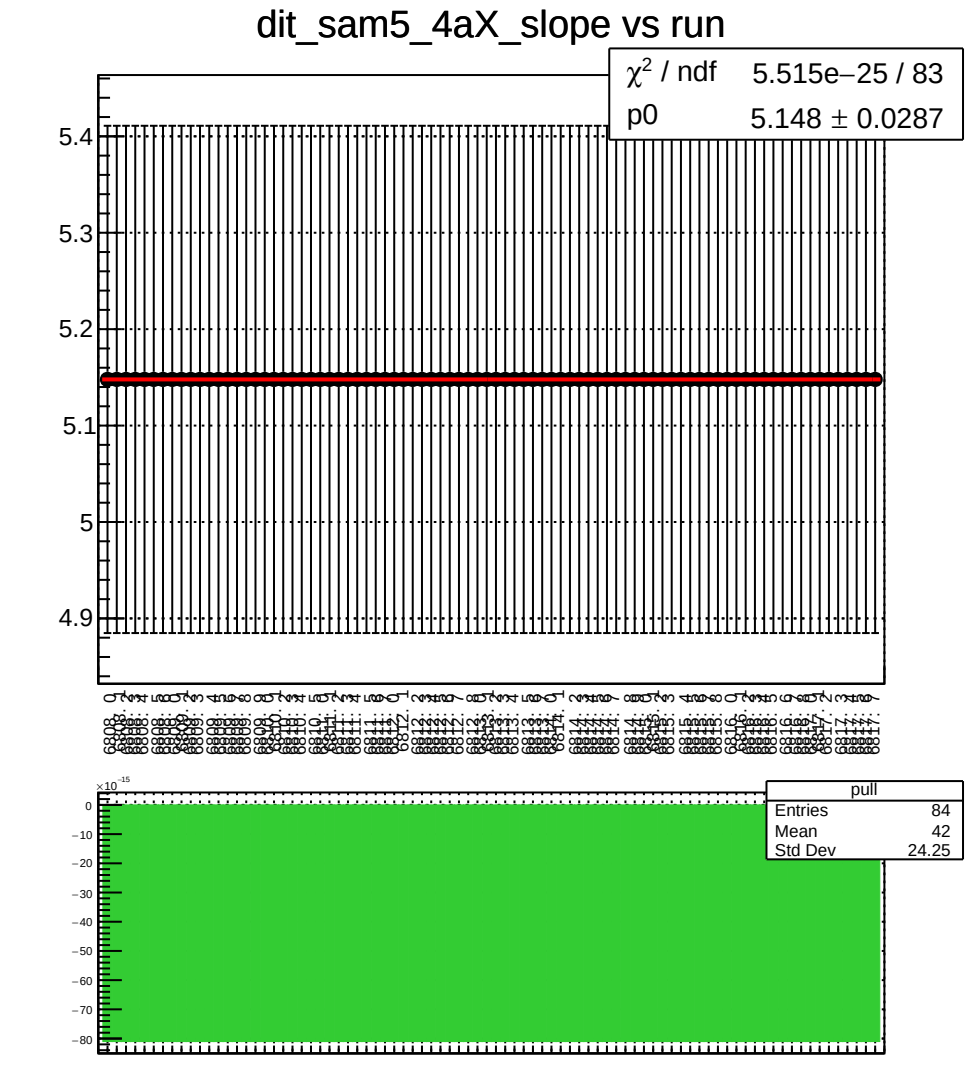

dit_sam4_11X12X_slope vs run
χ² / ndf 1.666e−26 / 83
p0 0.6537 ± 0.008601
pull
Entries 84
Mean 42
Std Dev 24.25

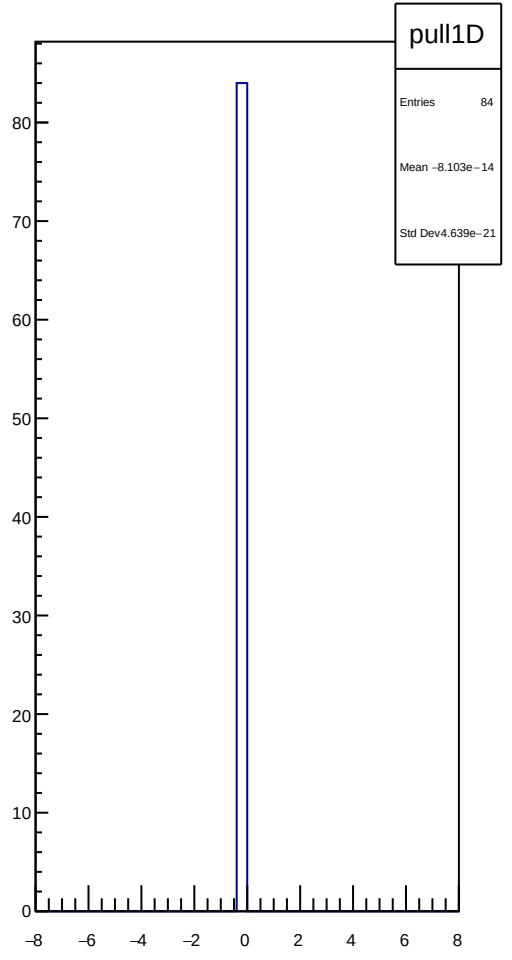

pull1D
Entries 84
Mean 1.408e−14
Std Dev 2.995e−22

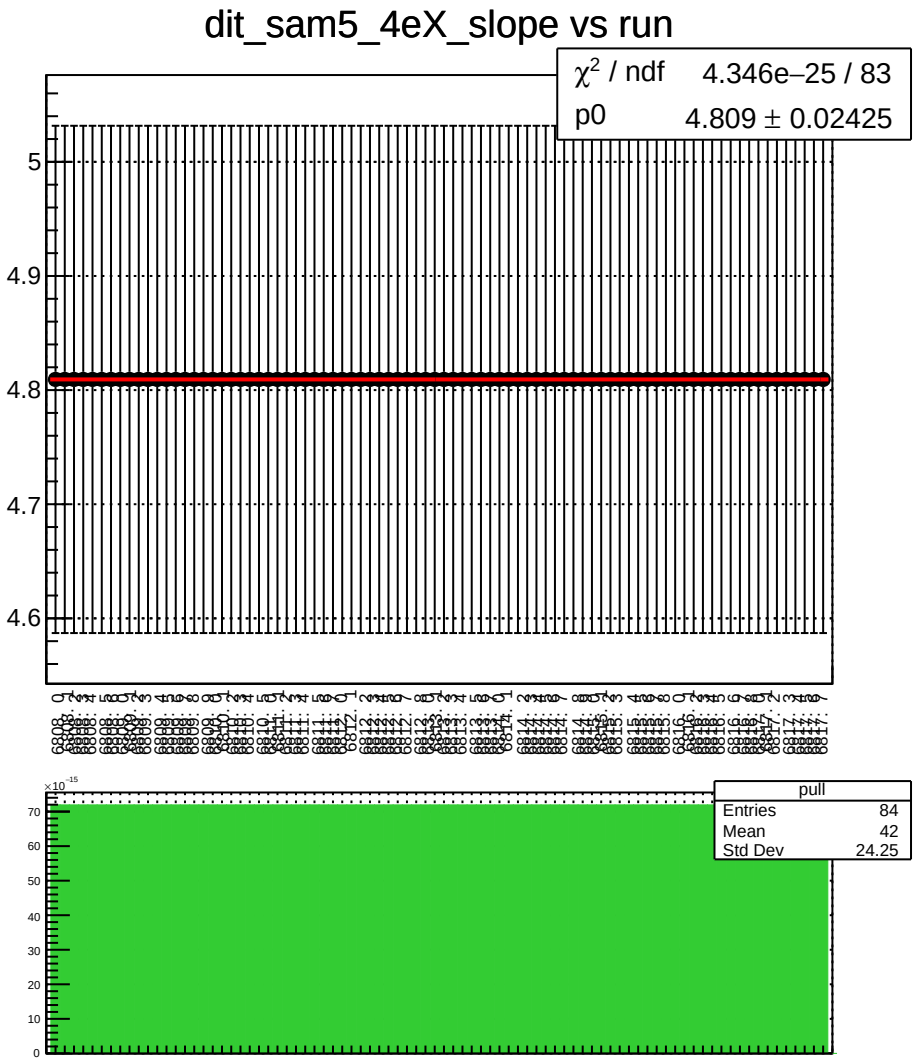

dit_sam4_4aY_slope vs run
χ² / ndf 5.555e−25 / 83
p0 −21.62 ± 0.07627
−20.8
−21
−21.2
−21.4
−21.6
−21.8
−22
−22.2
−22.4
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
80
70
60
50
40
30
20
10
0

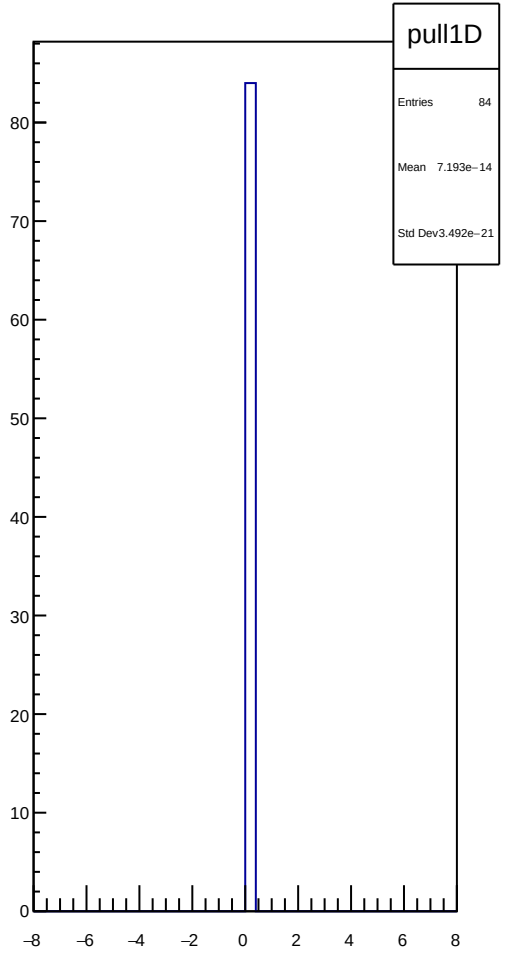

pull1D
Entries 84
Mean 8.132e−14
Std Dev2.934e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

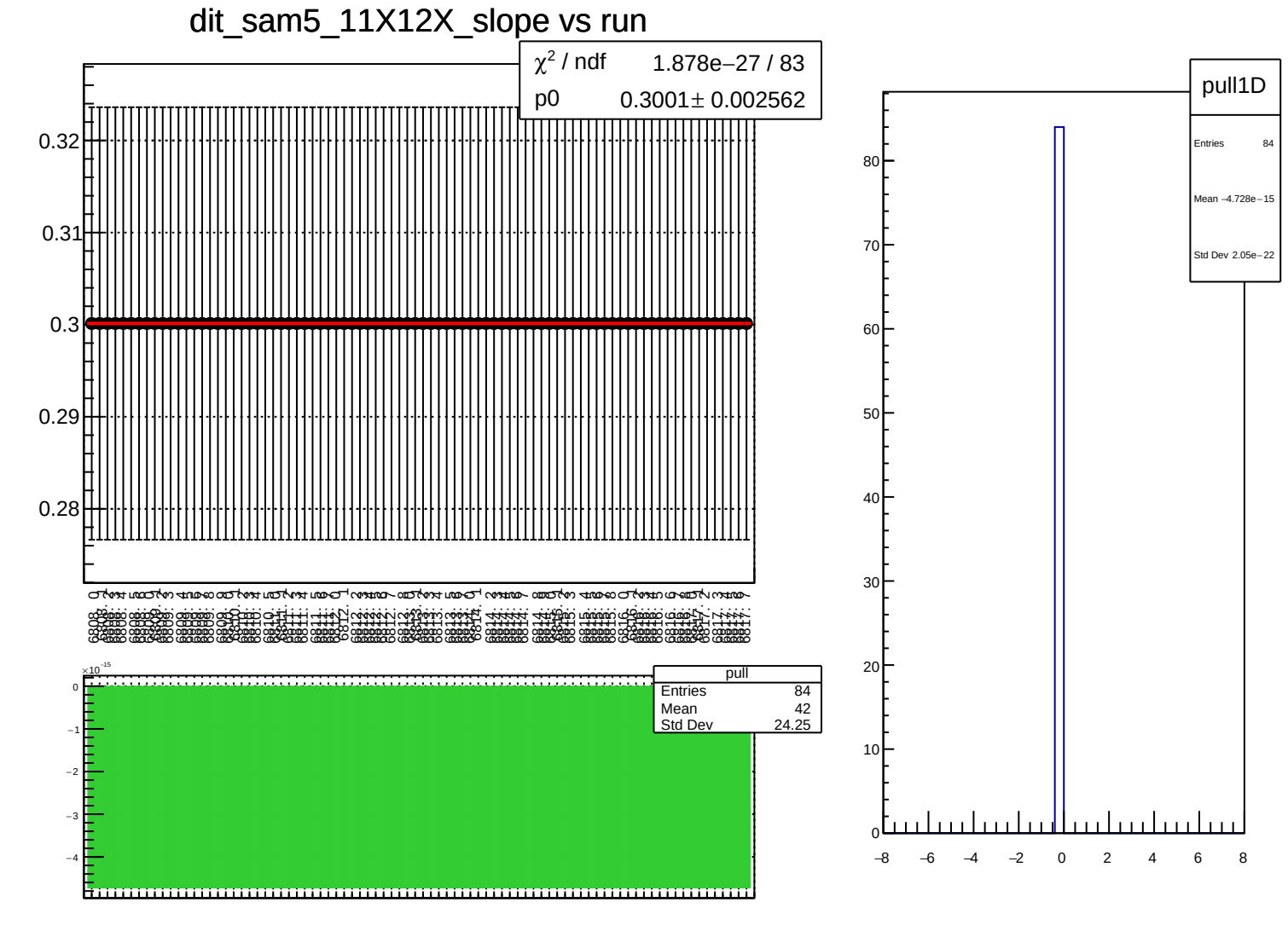

dit_sam4_4eY_slope vs run
χ² / ndf 6.341e−25 / 83
p0 260.7 ± 0.1428
262
261.5
261
260.5
260
259.5
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
90
80
70
60
50
40
30
20
10
0
pull1D
Entries 84
Mean 8.688e−14
Std Dev1.198e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

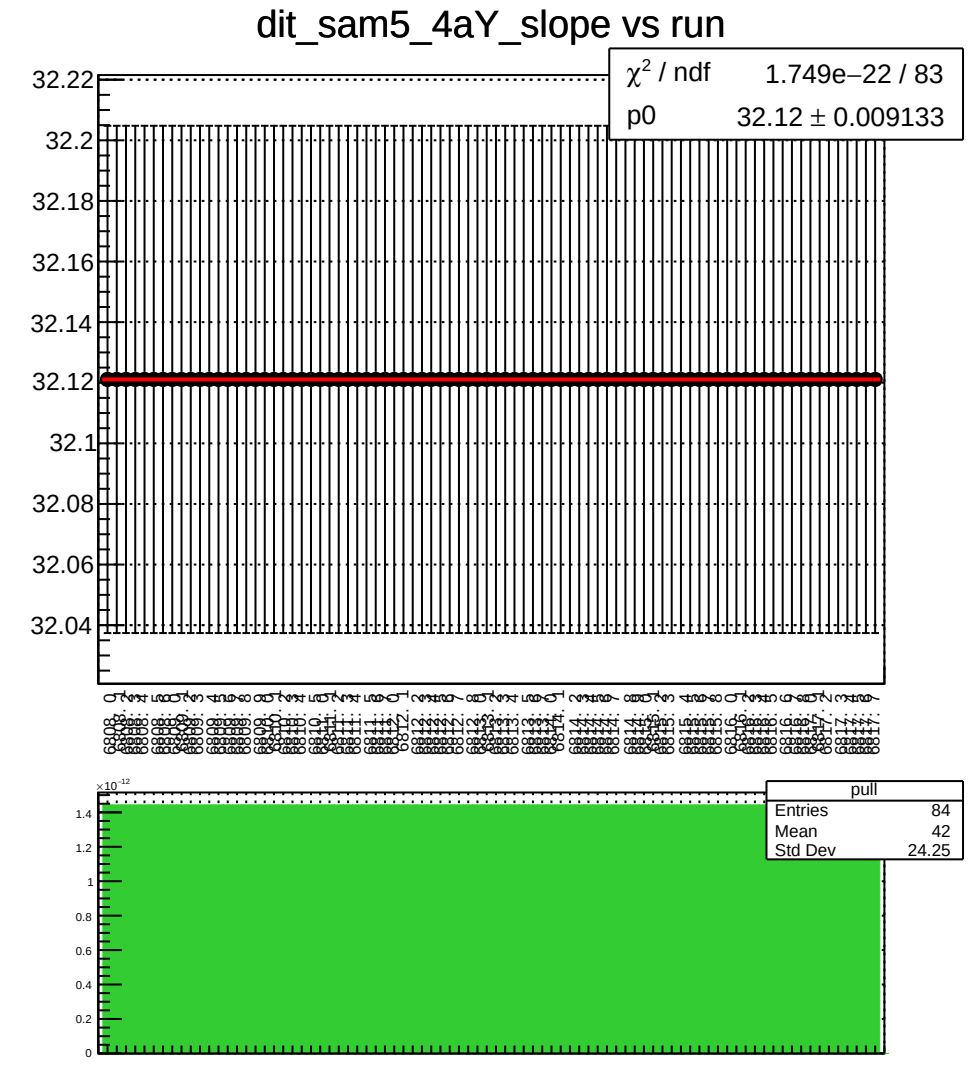

dit_sam5_4aX_slope vs run
χ² / ndf 5.515e−25 / 83
p0 5.148 ± 0.0287
5.4
5.3
5.2
5.1
5
4.9
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
−80

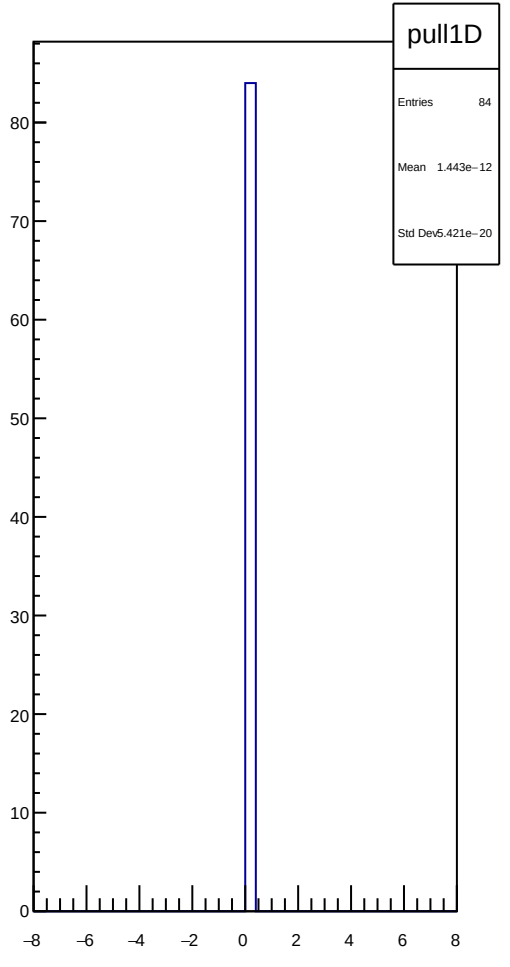

pull1D
Entries 84
Mean −8.103e−14
Std Dev4.639e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

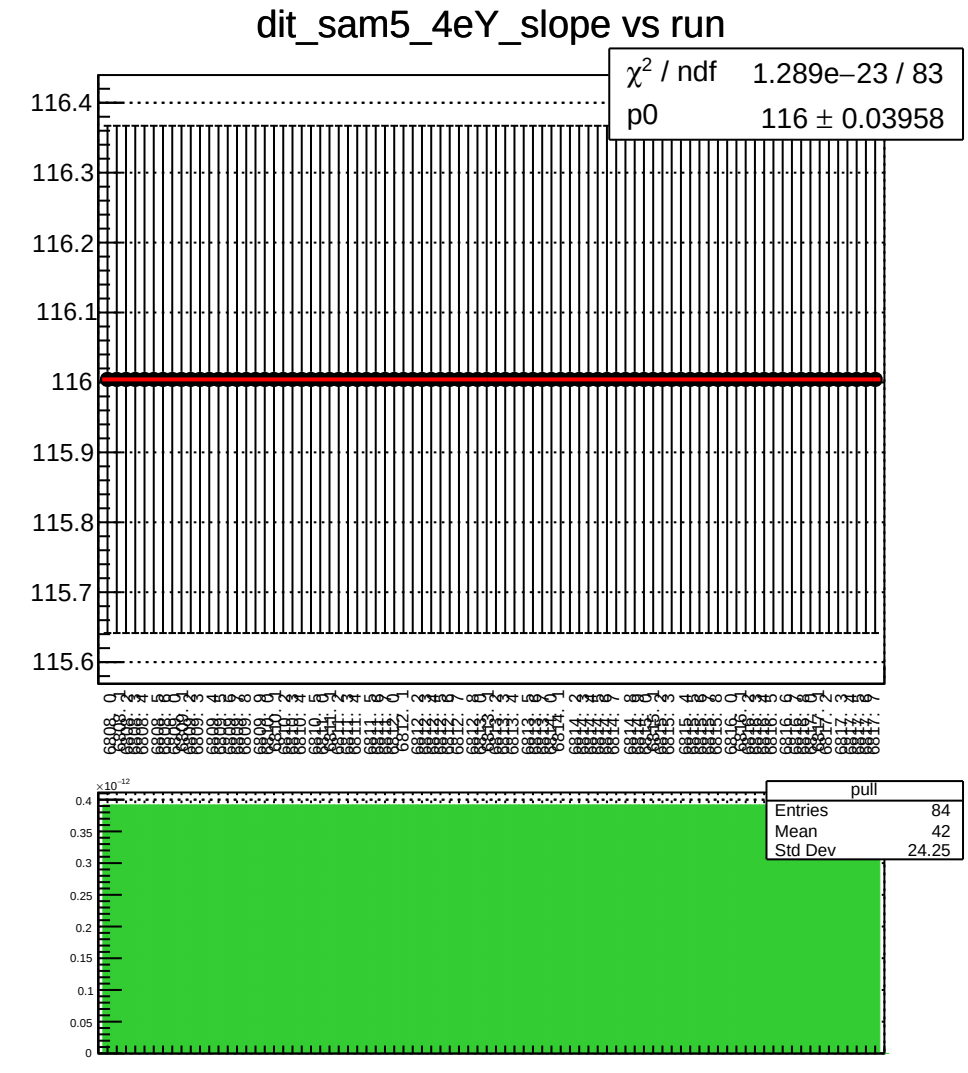

dit_sam5_4eX_slope vs run
χ² / ndf 4.346e−25 / 83
p0 4.809 ± 0.02425
5
4.9
4.8
4.7
4.6
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
70
60
50
40
30
20
10
0

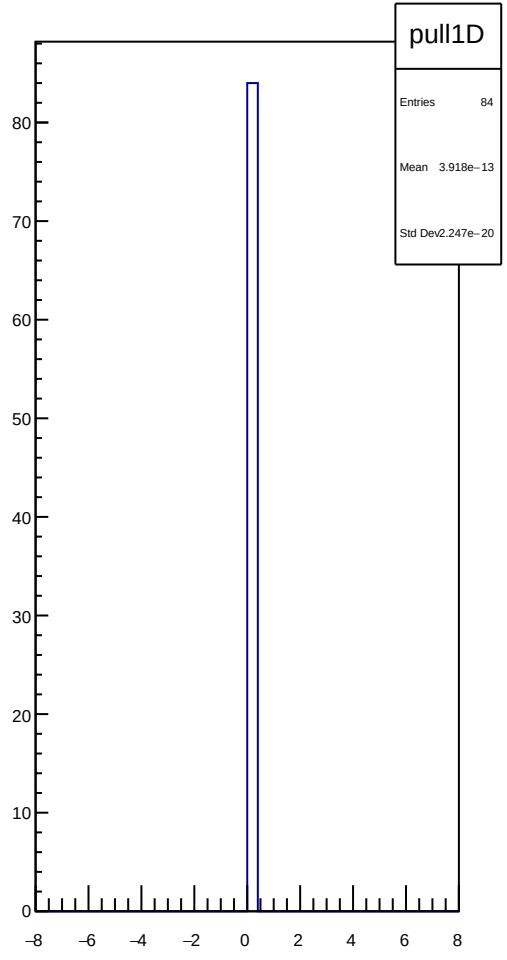

pull1D
Entries 84
Mean 7.193e−14
Std Dev3.492e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

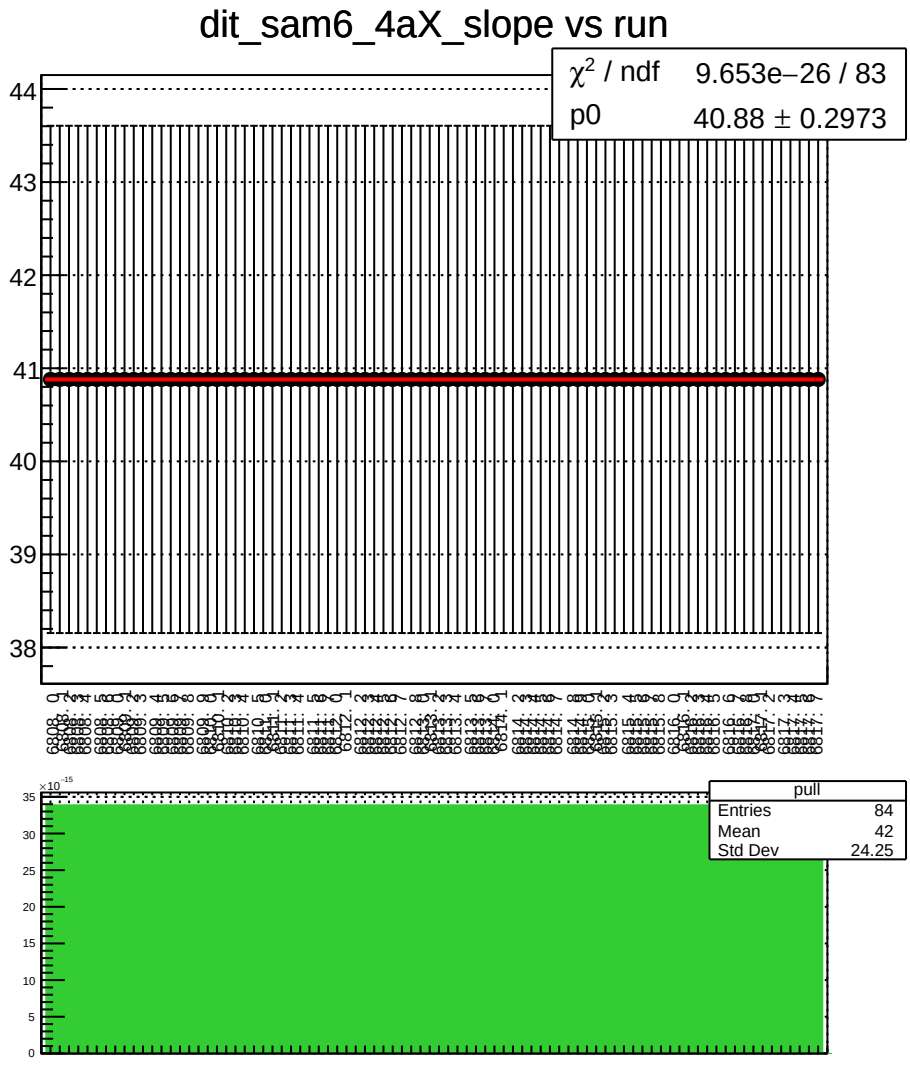

dit_sam5_11X12X_slope vs run
χ² / ndf 1.878e−27 / 83
p0 0.3001 ± 0.002562
0.32
0.31
0.3
0.29
0.28
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
0
−1
−2
−3
−4
pull1D
Entries 84
Mean −4.728e−15
Std Dev 2.05e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

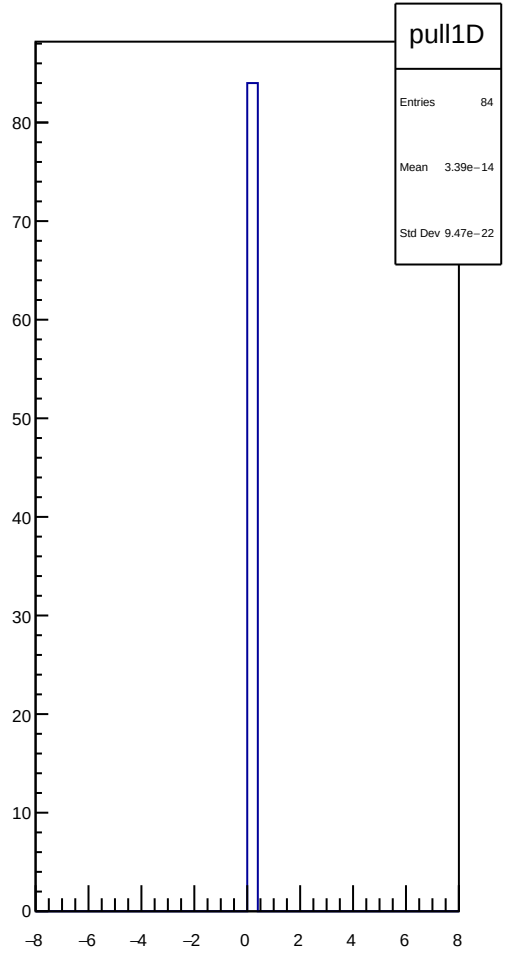

dit_sam5_4aY_slope vs run
χ² / ndf 1.749e−22 / 83
p0 32.12 ± 0.009133
32.22
32.2
32.18
32.16
32.14
32.12
32.1
32.08
32.06
32.04
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹²
1.4
1.2
1
0.8
0.6
0.4
0.2
0

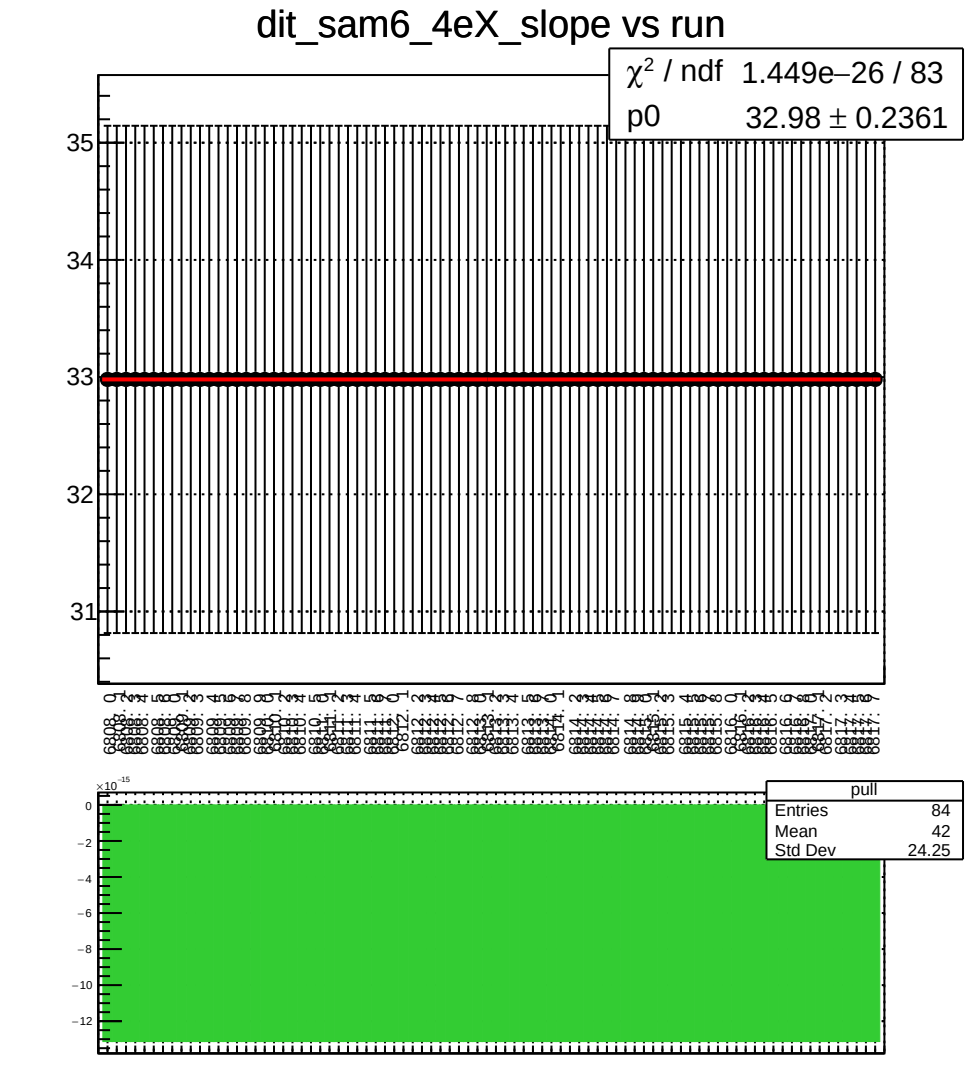

pull1D
Entries 84
Mean 1.443e−12
Std Dev5.421e−20
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

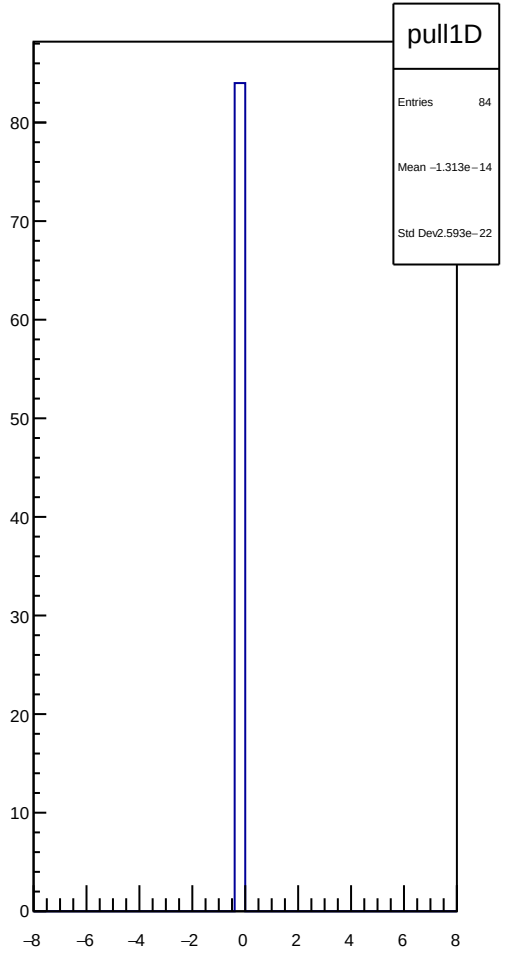

dit_sam5_4eY_slope vs run
χ² / ndf 1.289e−23 / 83
p0 116 ± 0.03958
116.4
116.3
116.2
116.1
116
115.9
115.8
115.7
115.6
×10⁻¹²
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 84
Mean 42
Std Dev 24.25

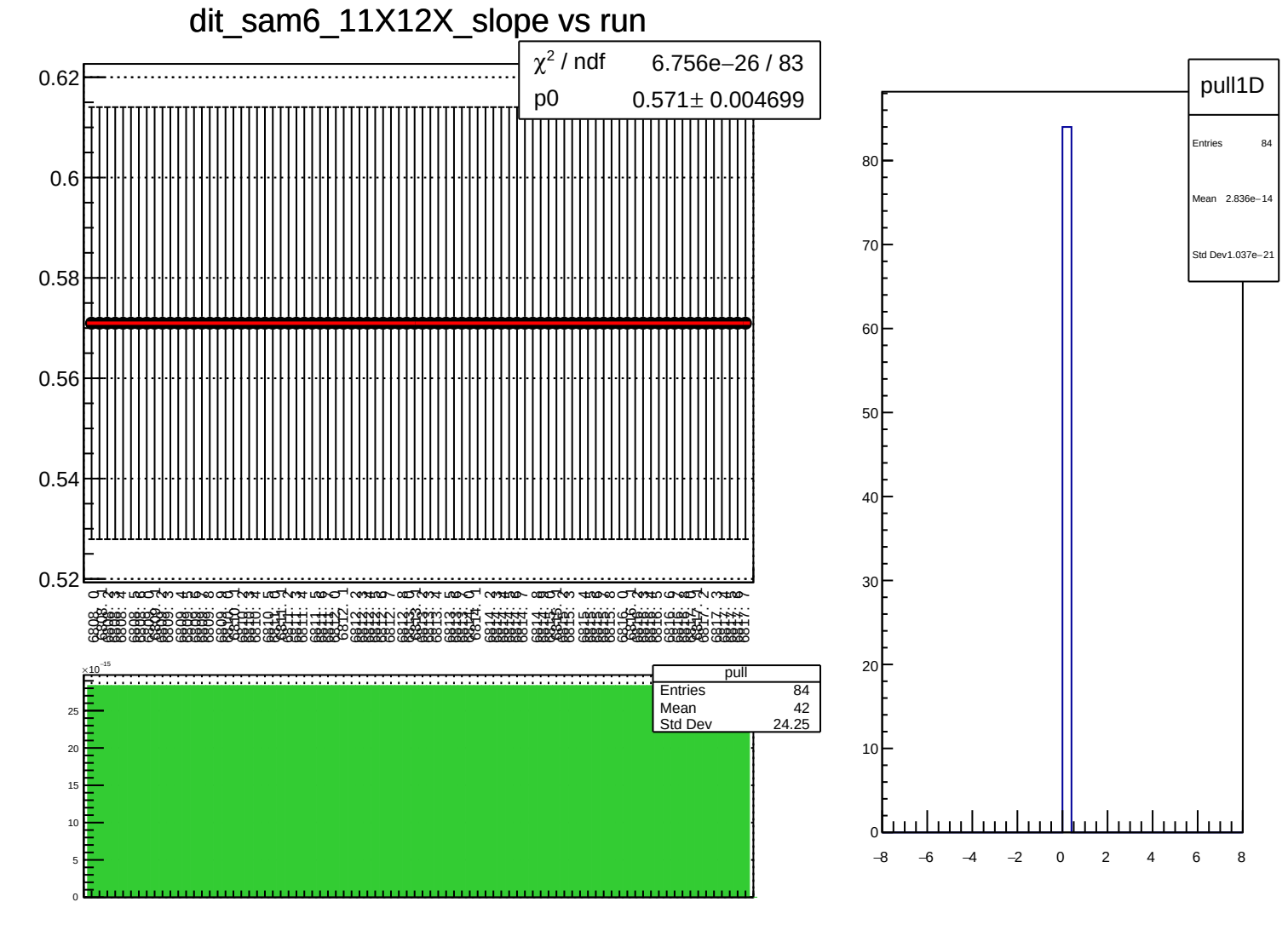

pull1D
Entries 84
Mean 3.918e−13
Std Dev 2.247e−20
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

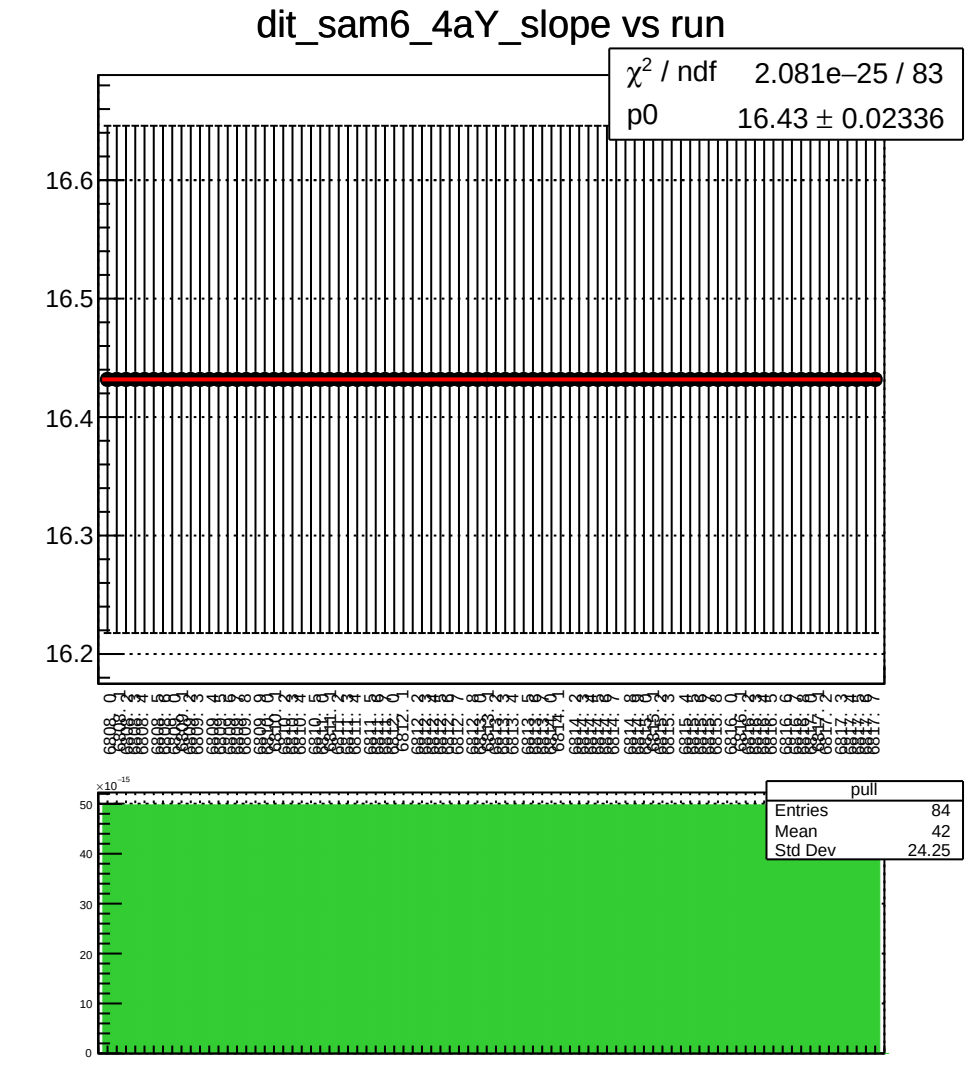

dit_sam6_4aX_slope vs run
χ^2 / ndf 9.653e−26 / 83
p0 40.88 ± 0.2973
pull
Entries 84
Mean 42
Std Dev 24.25

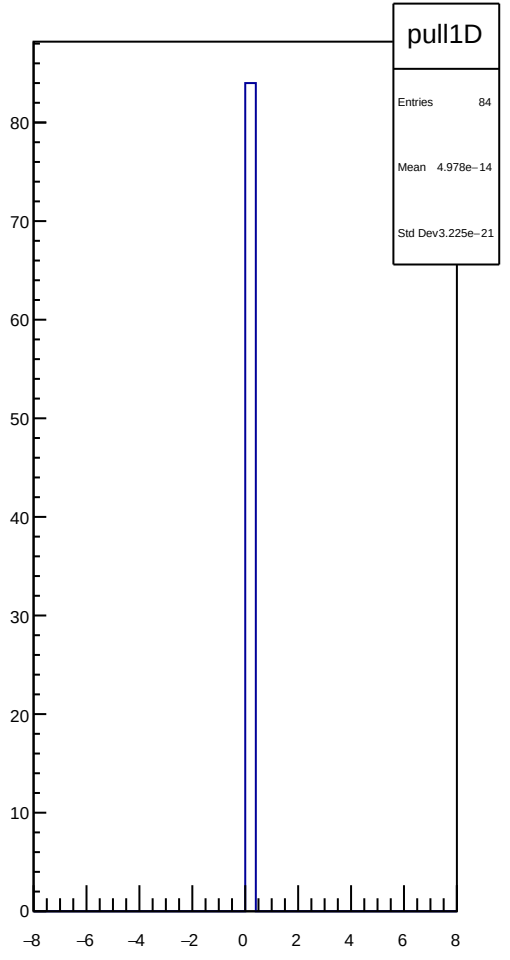

pull1D
Entries 84
Mean 3.39e−14
Std Dev 9.47e−22

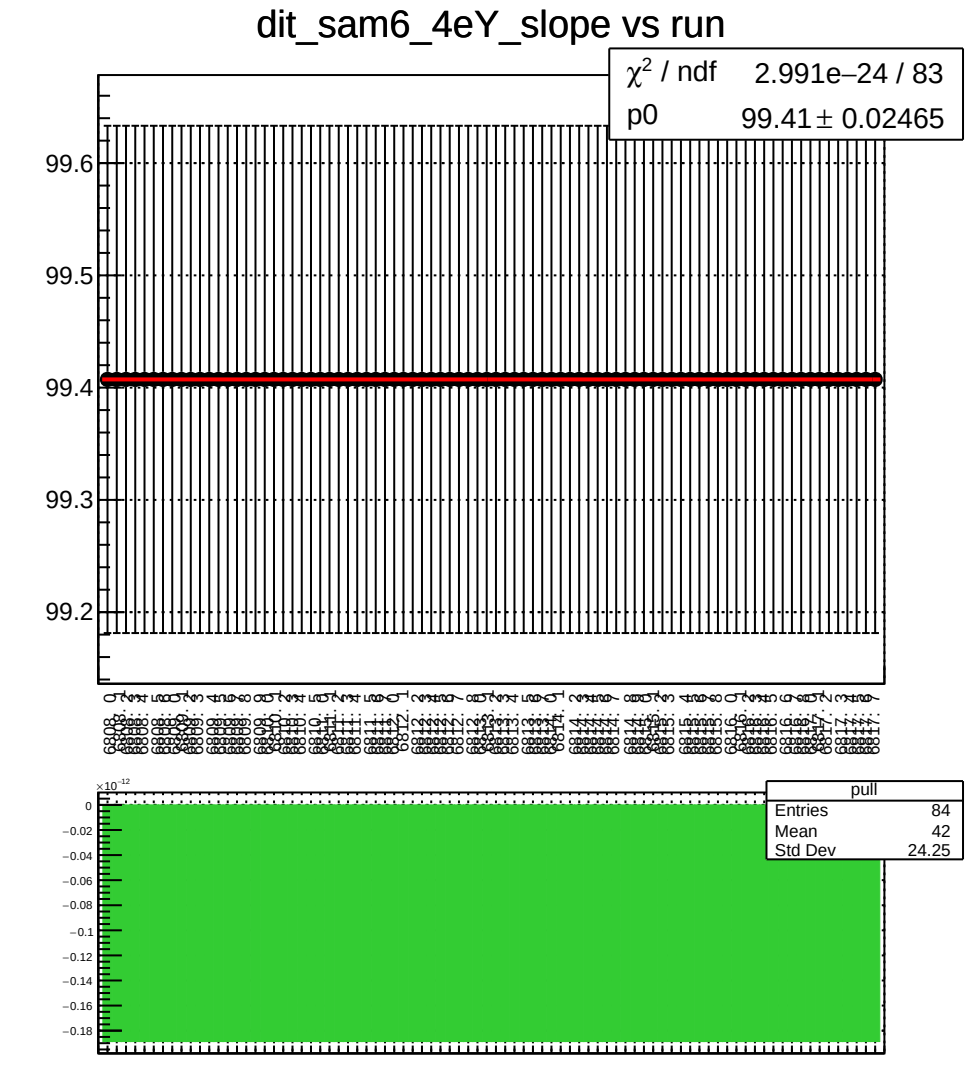

dit_sam6_4eX_slope vs run
χ² / ndf 1.449e−26 / 83
p0 32.98 ± 0.2361
35
34
33
32
31
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12

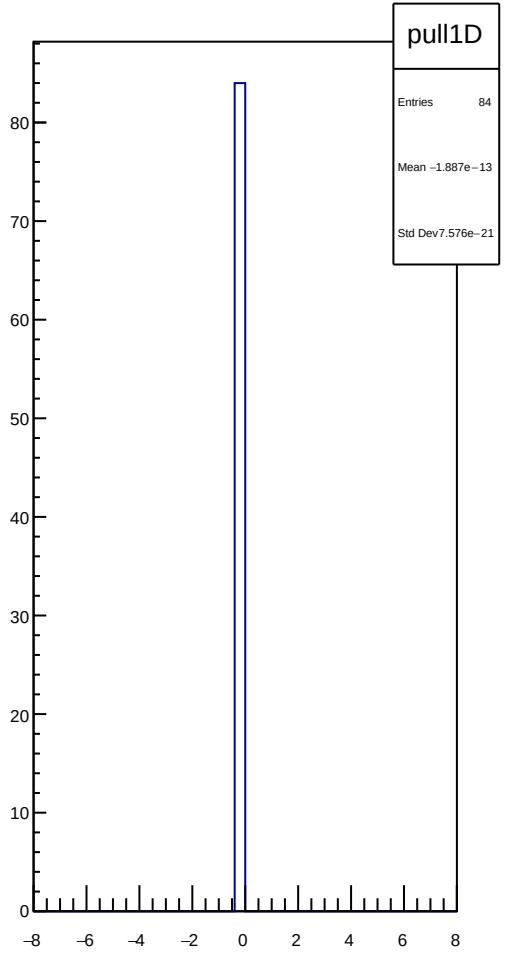

pull1D
Entries 84
Mean −1.313e−14
Std Dev 2.593e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

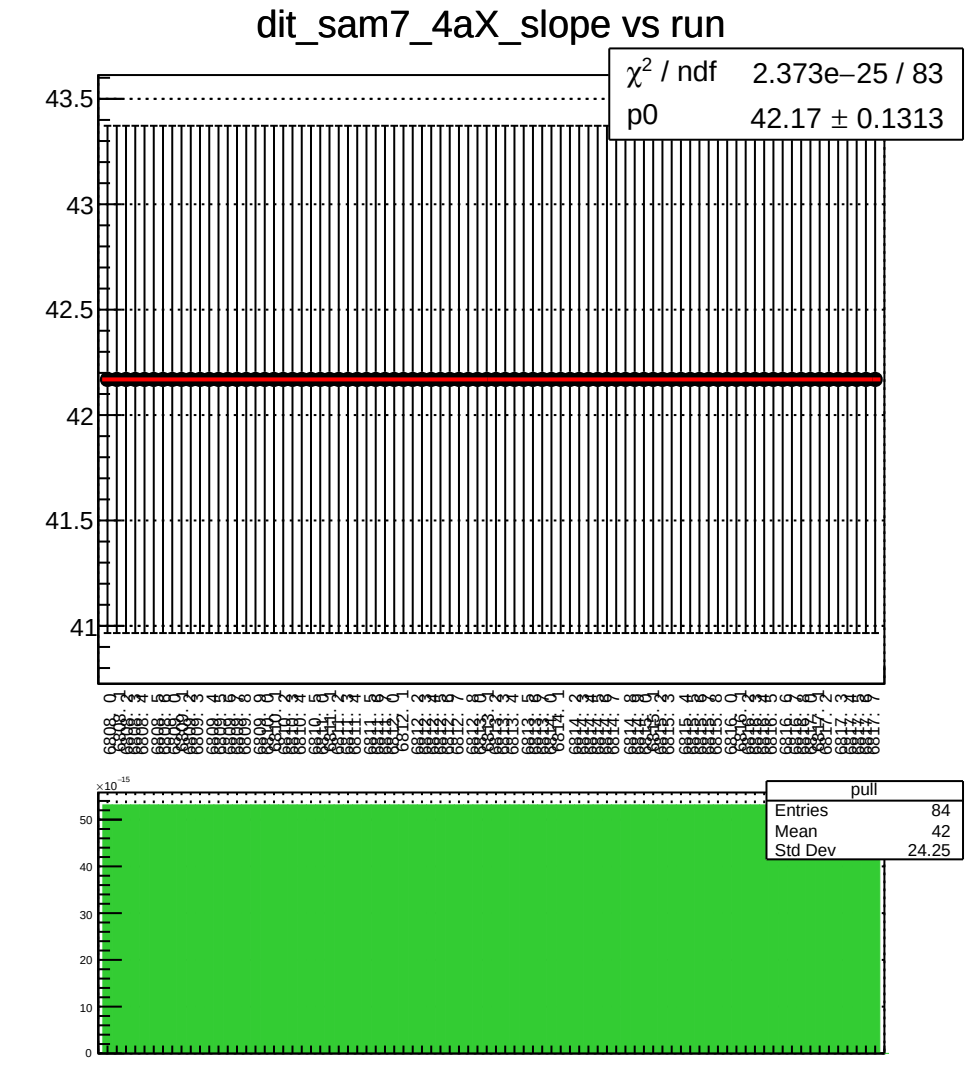

dit_sam6_11X12X_slope vs run
χ² / ndf 6.756e−26 / 83
p0 0.571± 0.004699
0.62
0.6
0.58
0.56
0.54
0.52
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
pull1D
Entries 84
Mean 2.836e−14
Std Dev1.037e−21

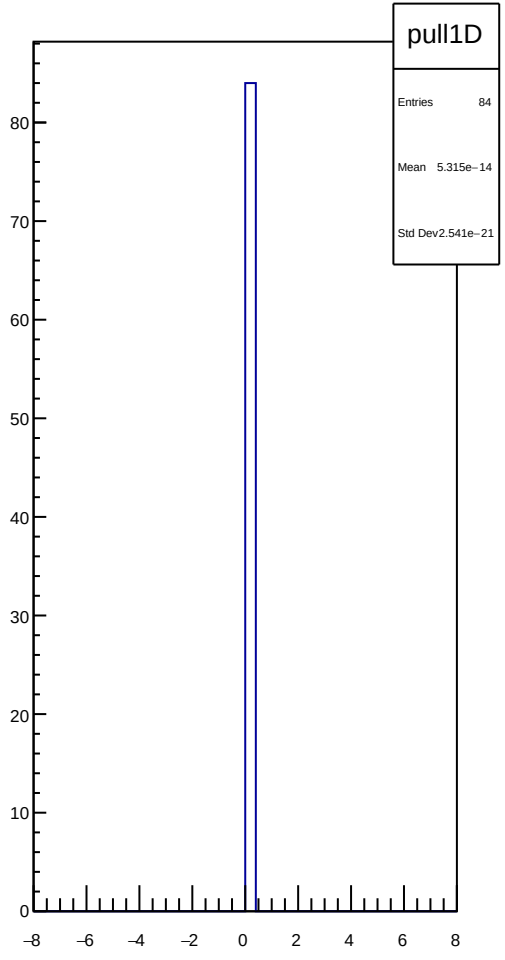

dit_sam6_4aY_slope vs run
χ² / ndf 2.081e−25 / 83
p0 16.43 ± 0.02336
16.6
16.5
16.4
16.3
16.2
×10⁻¹⁵
50
40
30
20
10
0
pull
Entries 84
Mean 42
Std Dev 24.25

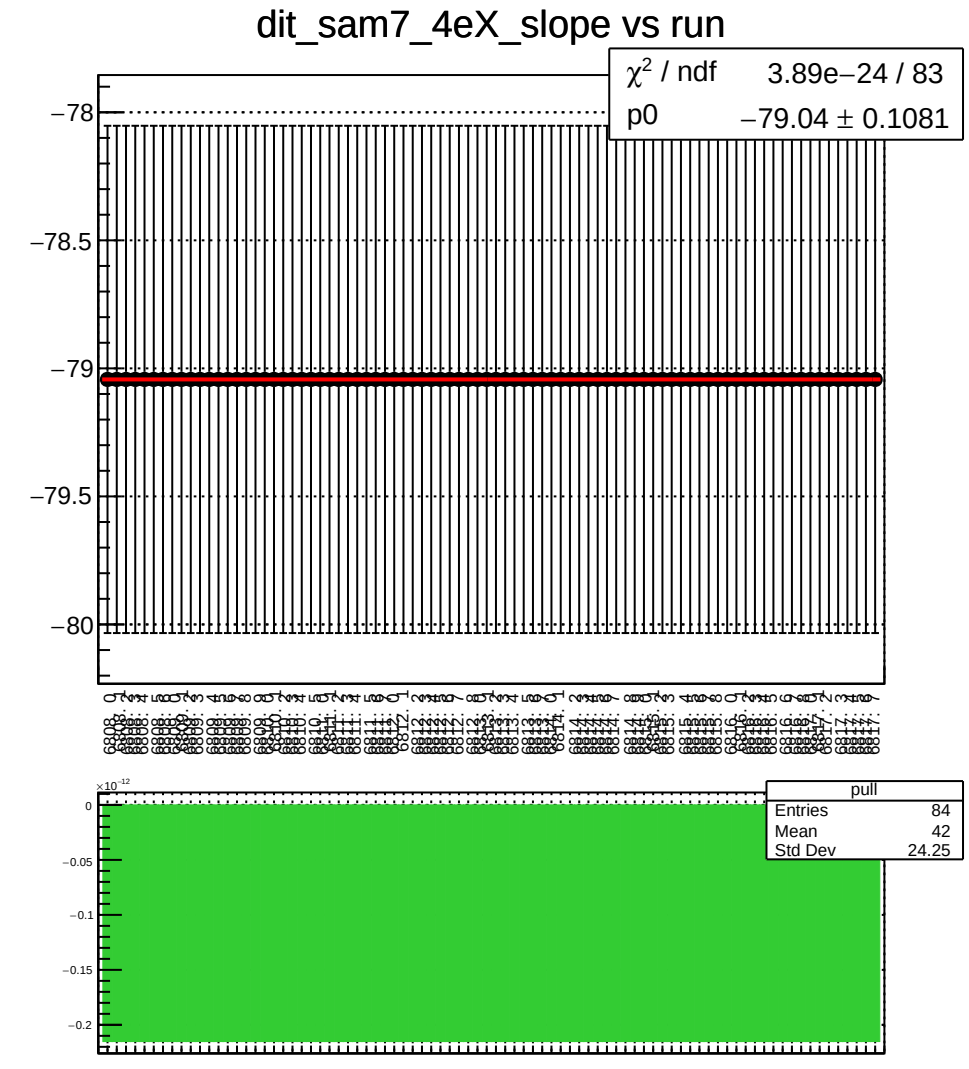

pull1D
Entries 84
Mean 4.978e−14
Std Dev3.225e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

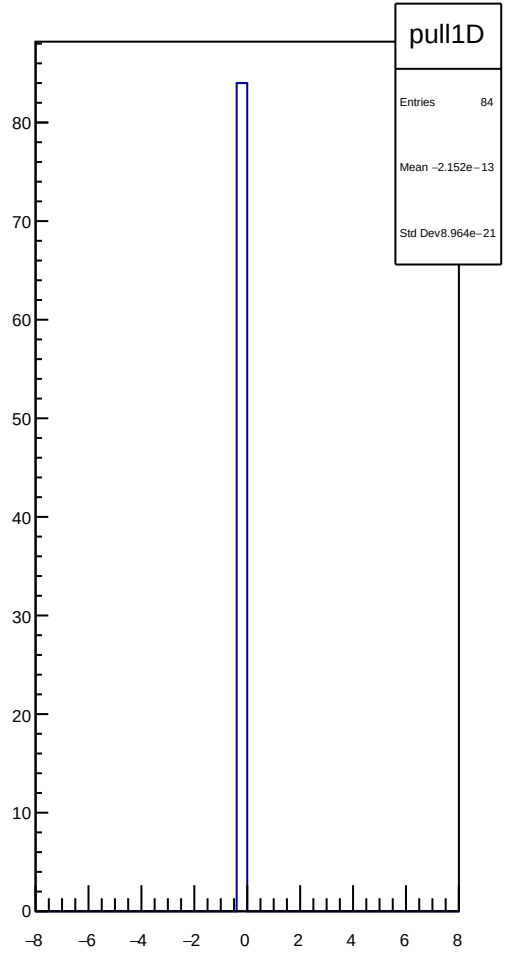

dit_sam6_4eY_slope vs run
χ^2 / ndf 2.991e−24 / 83
p0 99.41 ± 0.02465
99.6
99.5
99.4
99.3
99.2
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18

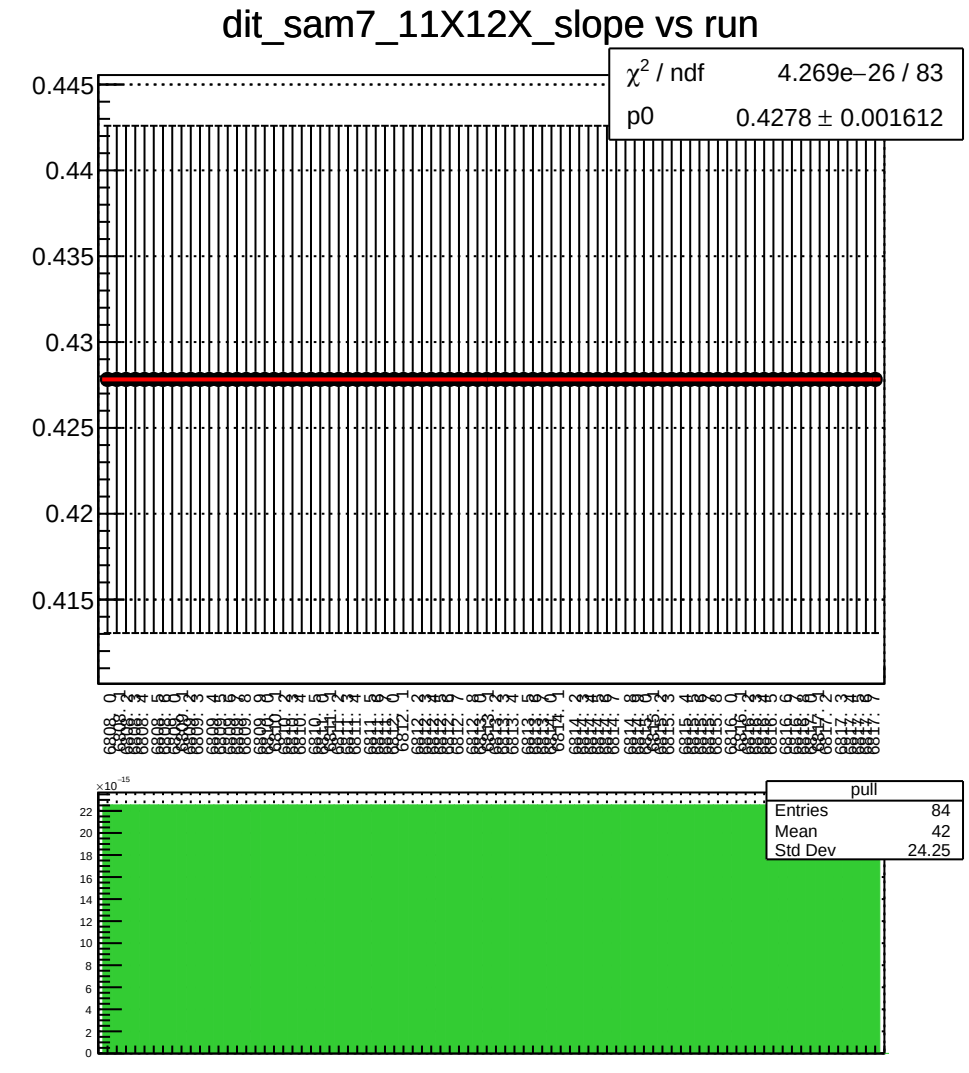

pull1D
Entries 84
Mean −1.887e−13
Std Dev7.576e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

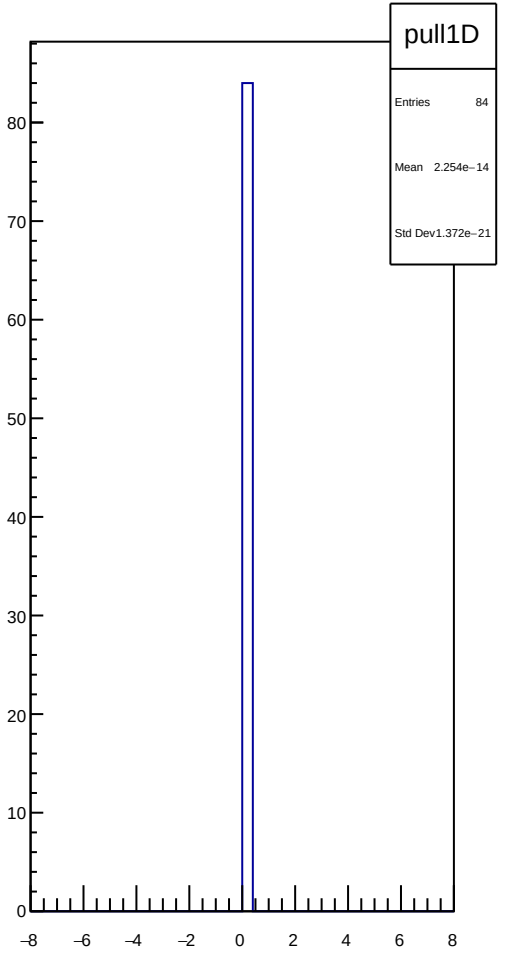

dit_sam7_4aX_slope vs run
χ² / ndf 2.373e−25 / 83
p0 42.17 ± 0.1313
43.5
43
42.5
42
41.5
41
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
50
40
30
20
10
0

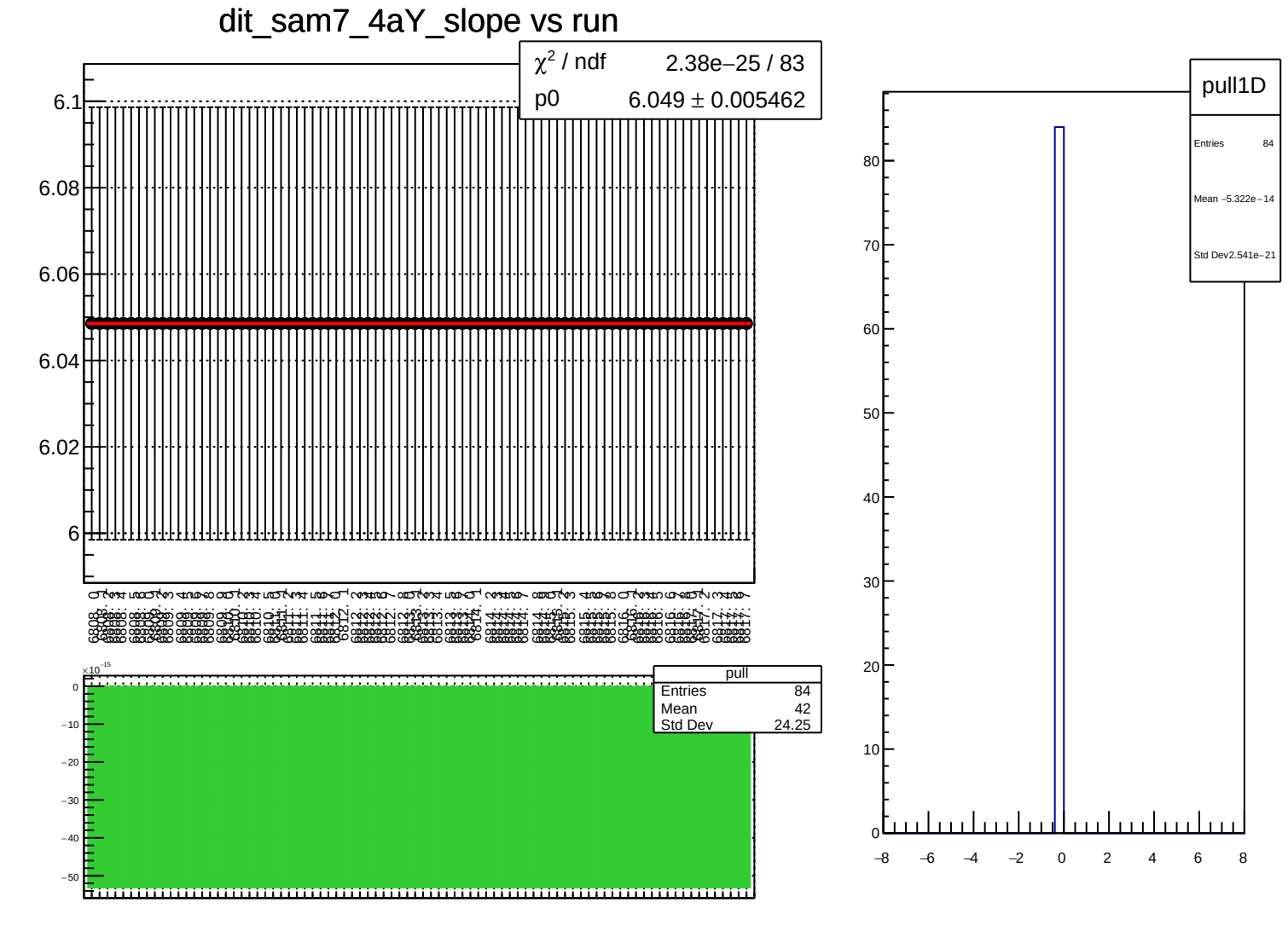

pull1D
Entries 84
Mean 5.315e−14
Std Dev2.541e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

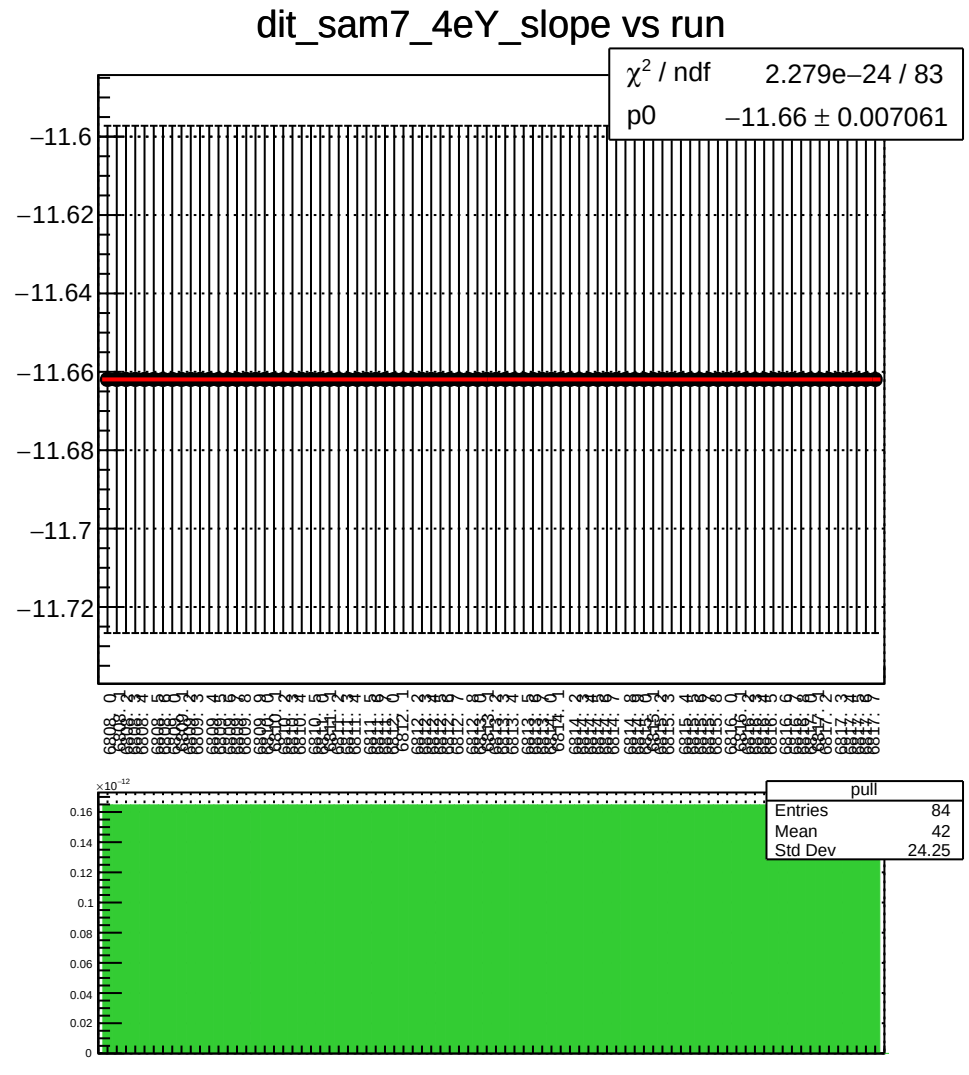

dit_sam7_4eX_slope vs run
χ² / ndf 3.89e−24 / 83
p0 −79.04 ± 0.1081
−78
−78.5
−79
−79.5
−80
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2

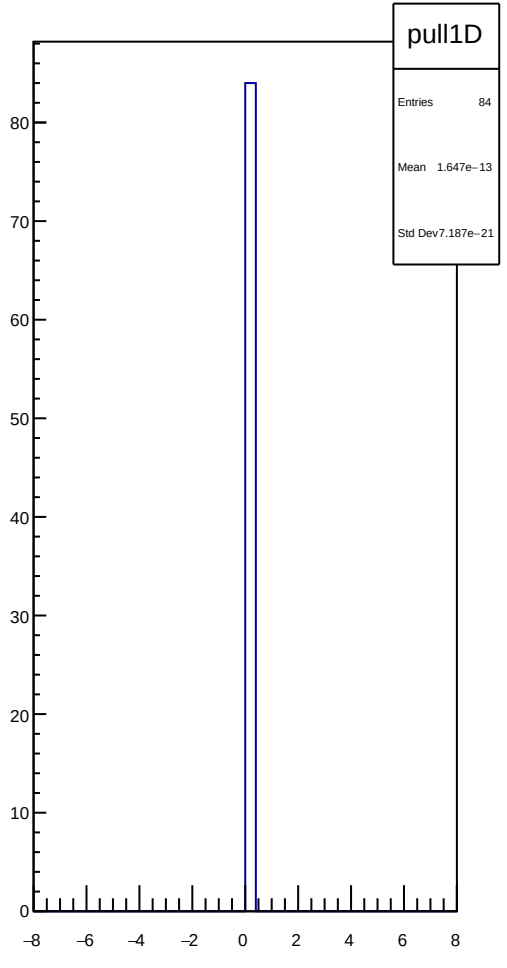

pull1D
Entries 84
Mean −2.152e−13
Std Dev8.964e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

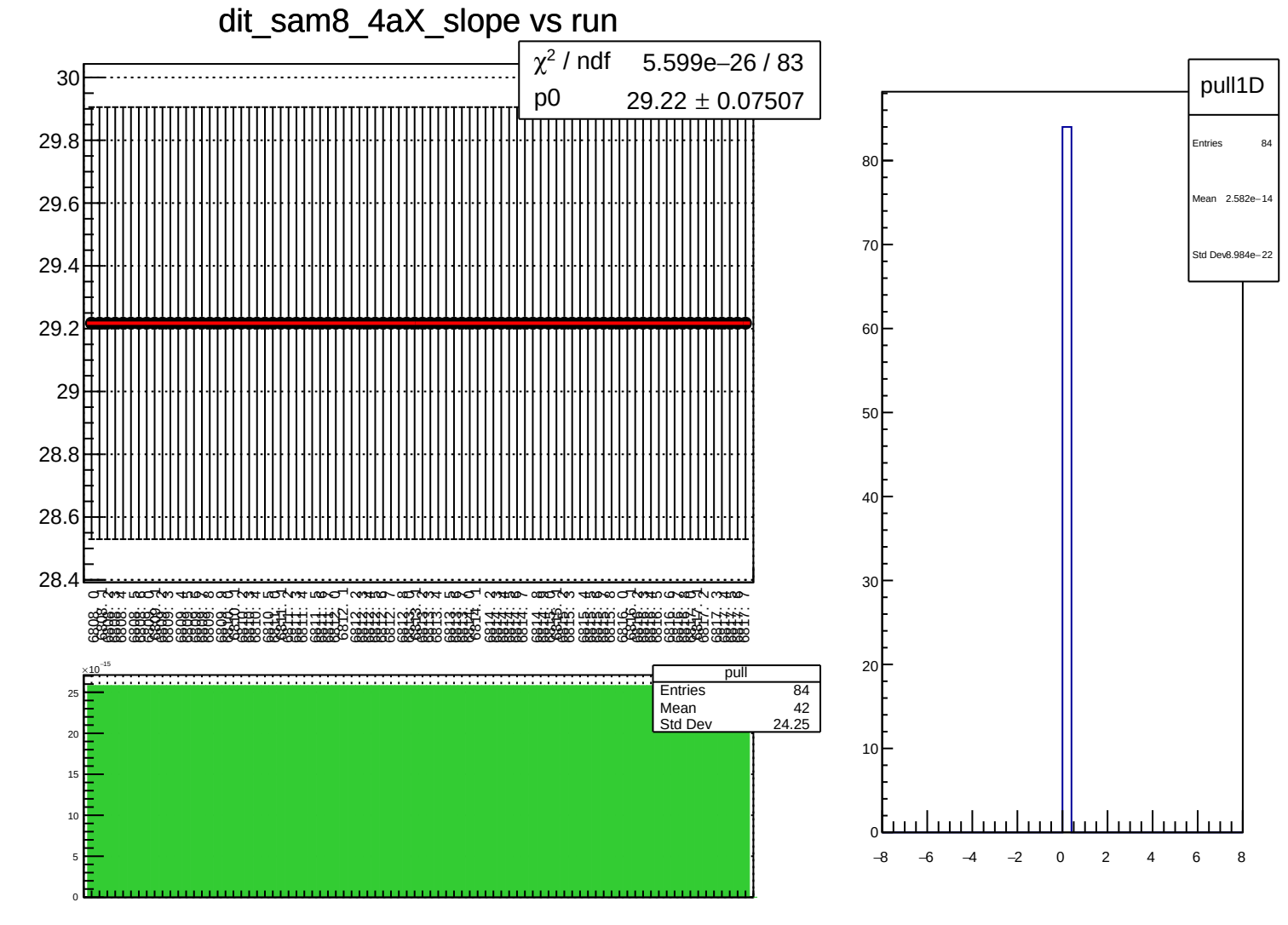

dit_sam7_11X12X_slope vs run
χ² / ndf 4.269e−26 / 83
p0 0.4278 ± 0.001612
0.445
0.44
0.435
0.43
0.425
0.42
0.415
×10⁻¹⁵
pull
Entries 84
Mean 42
Std Dev 24.25

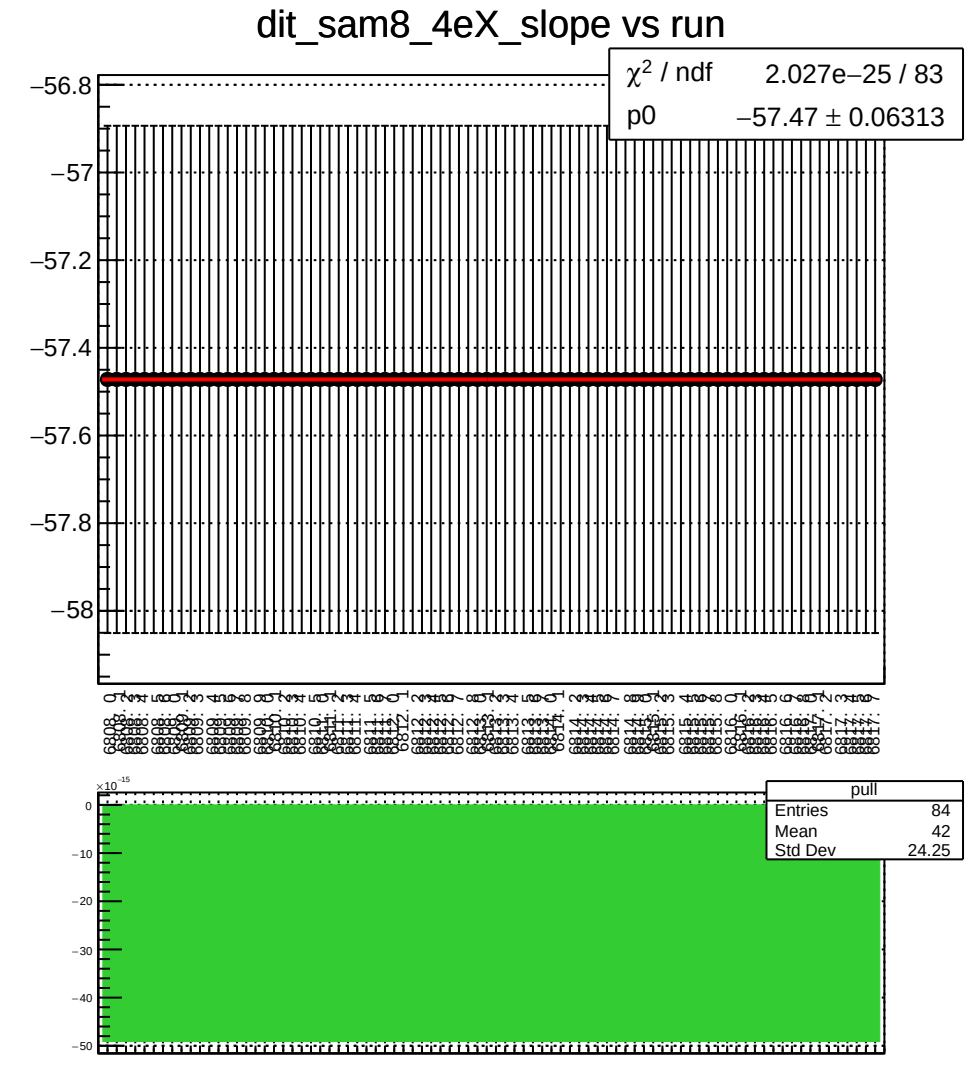

pull1D
Entries 84
Mean 2.254e−14
Std Dev1.372e−21

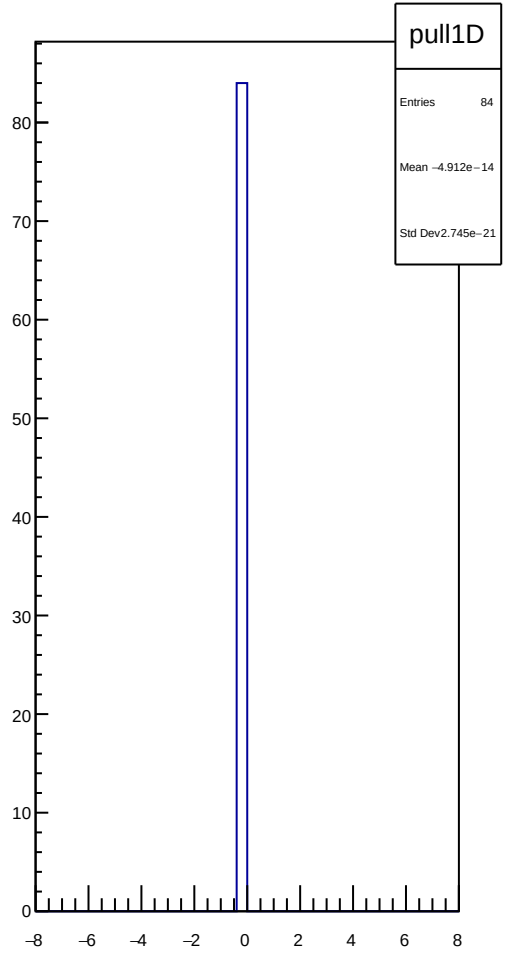

dit_sam7_4aY_slope vs run
χ² / ndf 2.38e−25 / 83
p0 6.049 ± 0.005462
6.1
6.08
6.06
6.04
6.02
6
×10⁻¹⁵
0
−10
−20
−30
−40
−50
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean −5.322e−14
Std Dev2.541e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

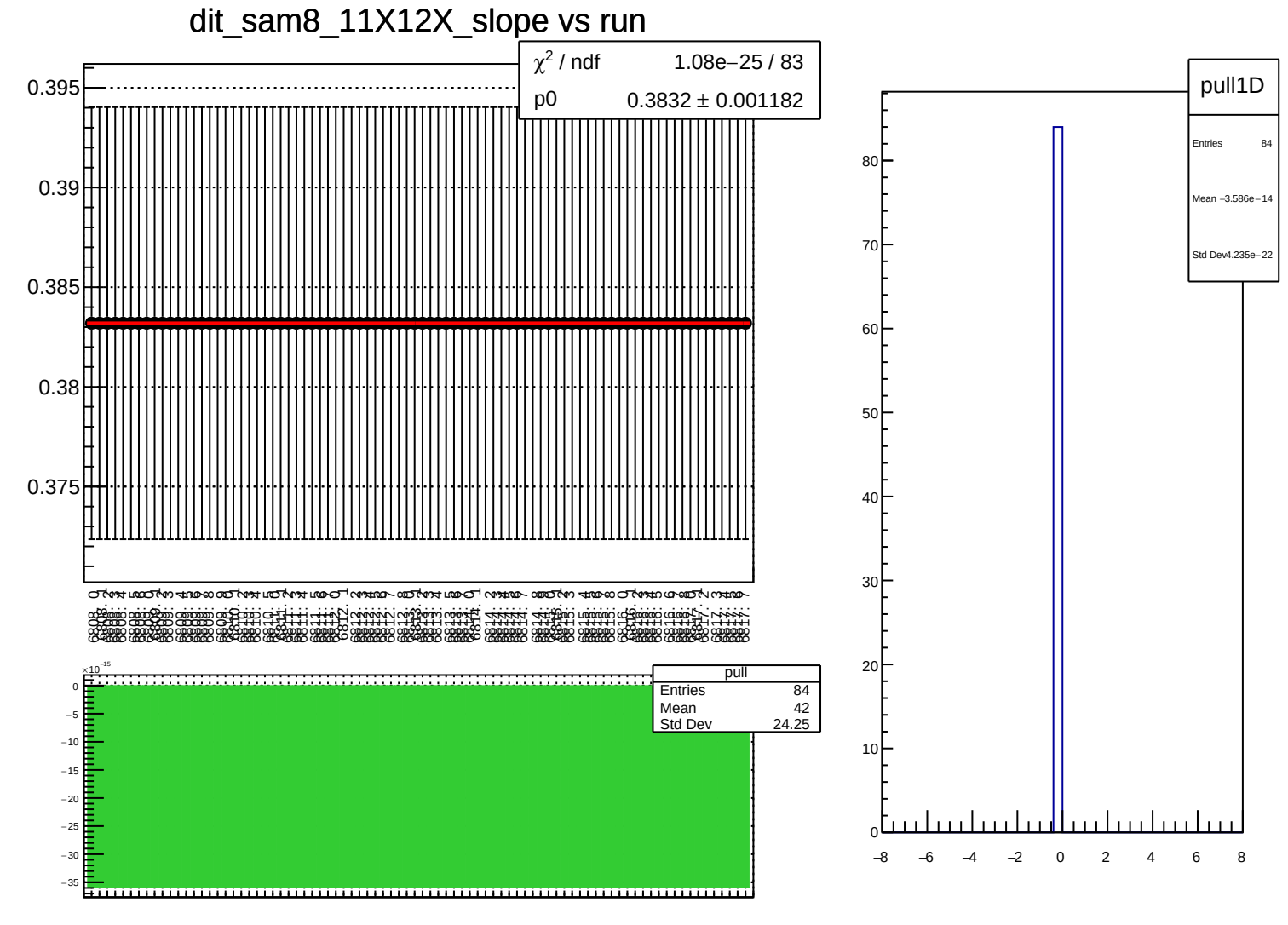

dit_sam7_4eY_slope vs run
χ² / ndf 2.279e−24 / 83
p0 −11.66 ± 0.007061
−11.6
−11.62
−11.64
−11.66
−11.68
−11.7
−11.72
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹²
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

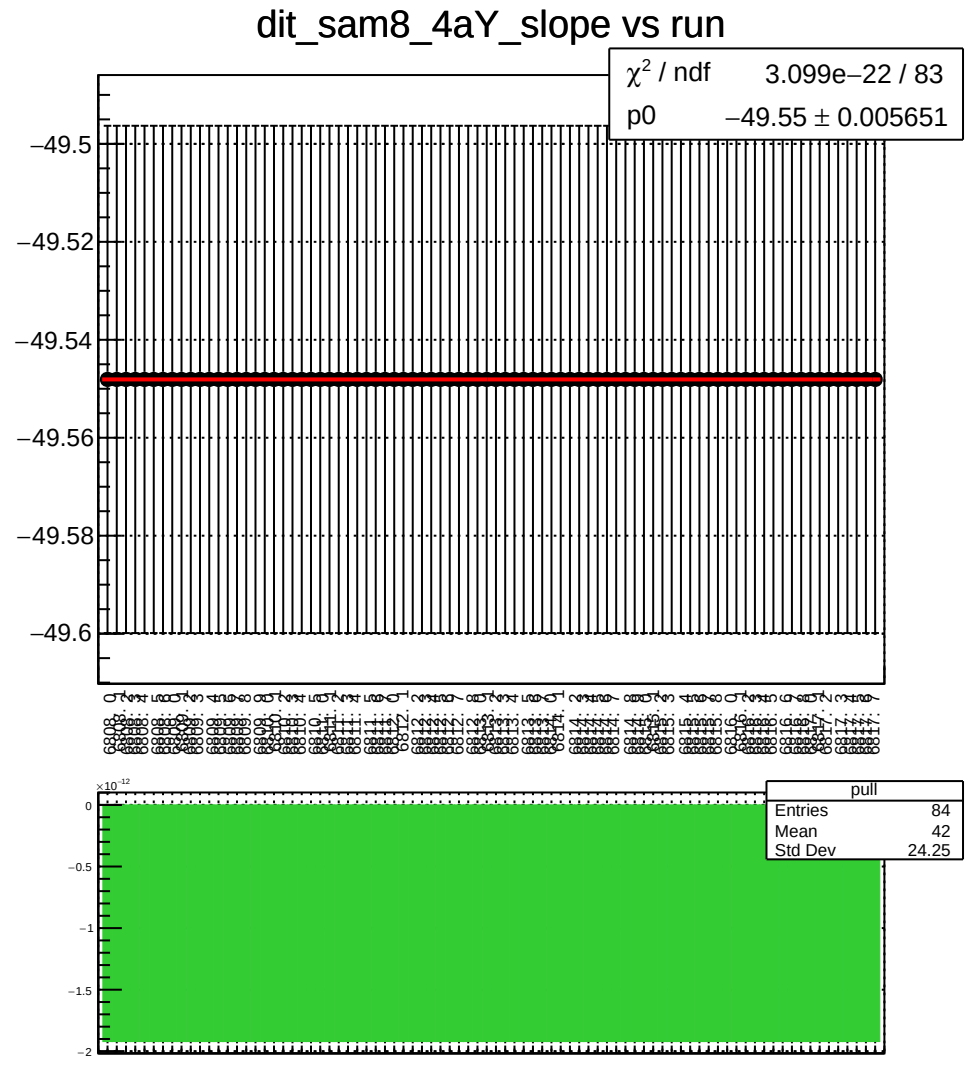

pull1D
Entries 84
Mean 1.647e−13
Std Dev7.187e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

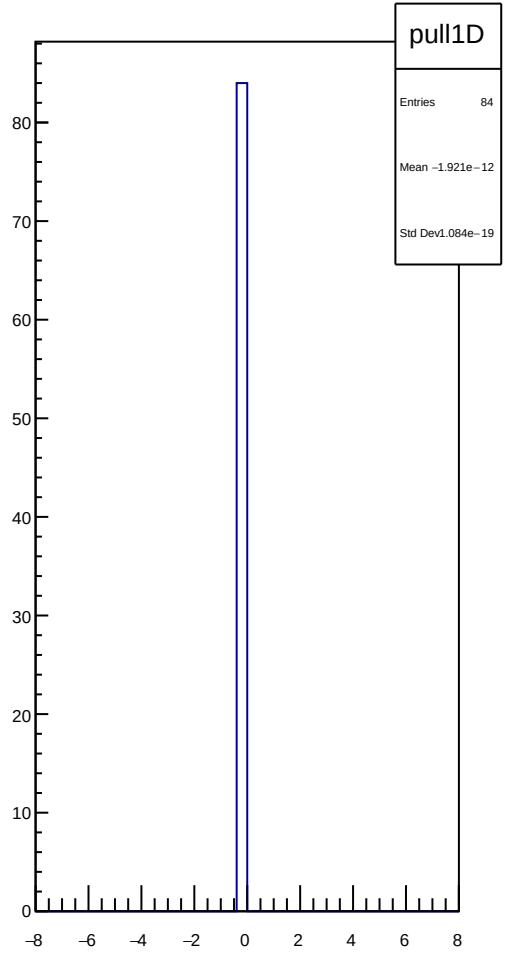

dit_sam8_4aX_slope vs run
χ^2 / ndf 5.599e−26 / 83
p0 29.22 ± 0.07507
30
29.8
29.6
29.4
29.2
29
28.8
28.6
28.4
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
25
20
15
10
5
0
pull1D
Entries 84
Mean 2.582e−14
Std Dev 8.984e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

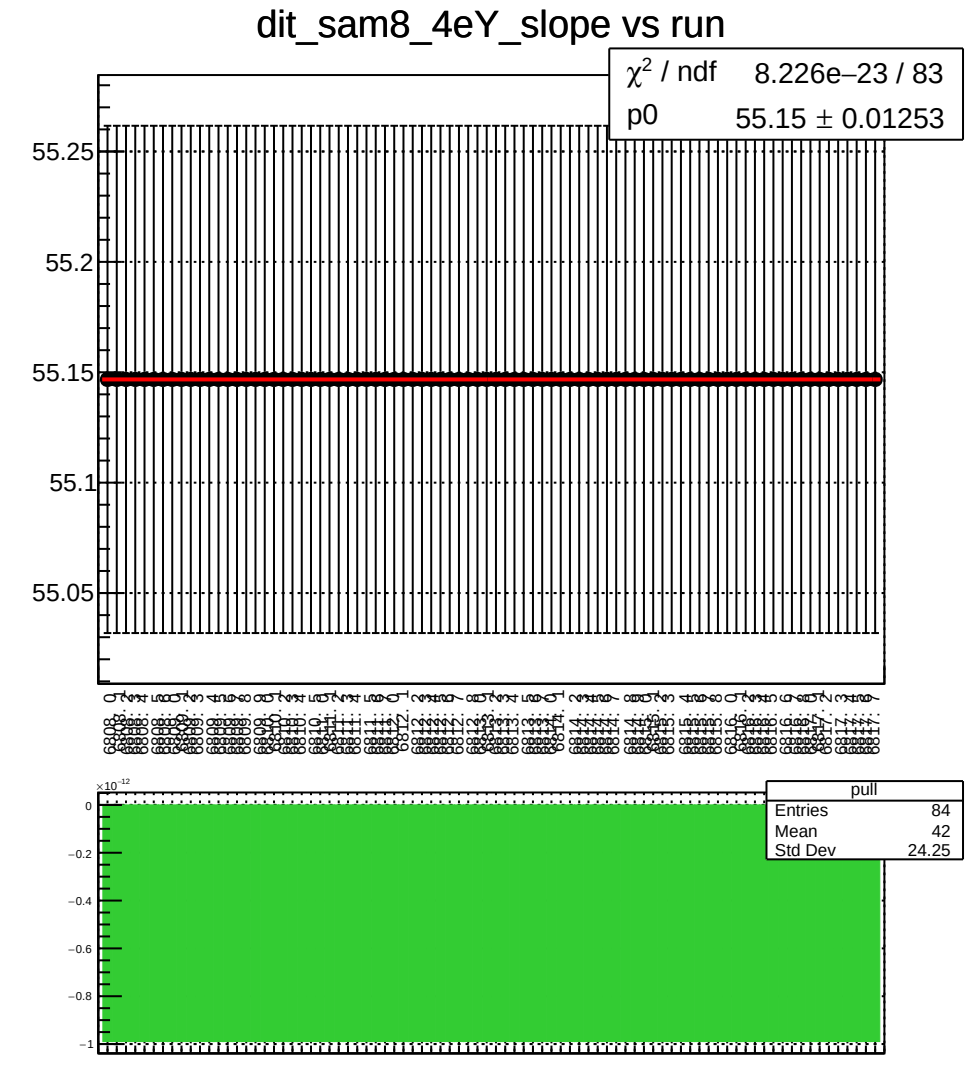

dit_sam8_4eX_slope vs run
χ² / ndf 2.027e−25 / 83
p0 −57.47 ± 0.06313
−56.8
−57
−57.2
−57.4
−57.6
−57.8
−58
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
0
−10
−20
−30
−40
−50

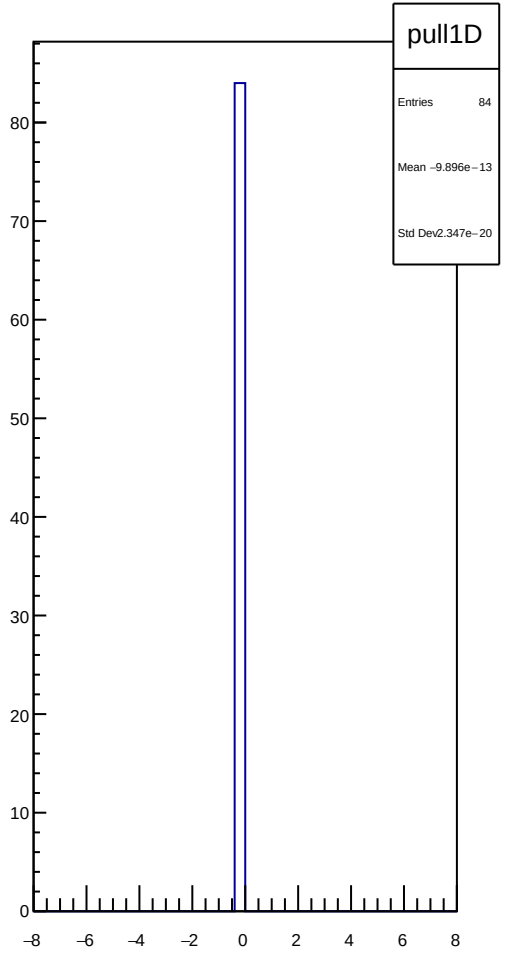

pull1D
Entries 84
Mean −4.912e−14
Std Dev2.745e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

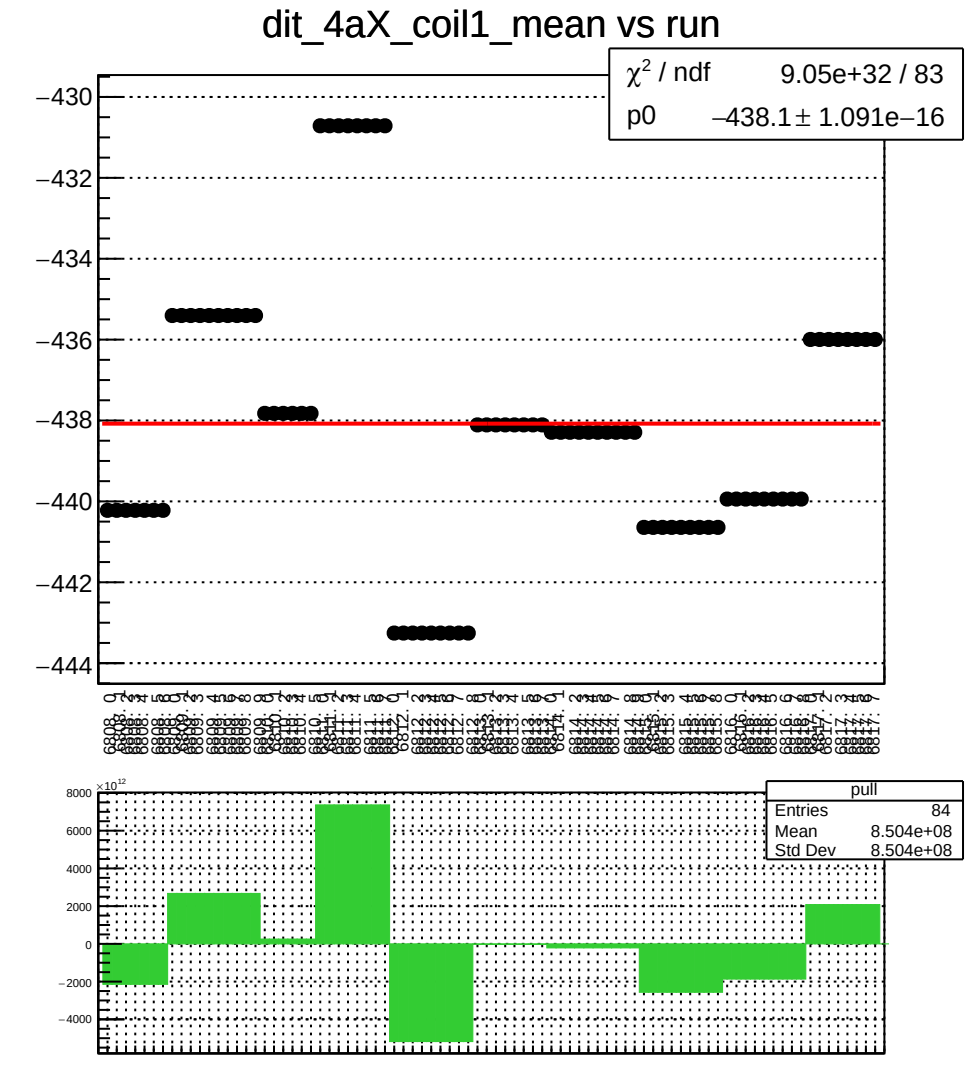

dit_sam8_11X12X_slope vs run
χ² / ndf 1.08e−25 / 83
p0 0.3832 ± 0.001182
0.395
0.39
0.385
0.38
0.375
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
pull1D
Entries 84
Mean −3.586e−14
Std Dev4.235e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

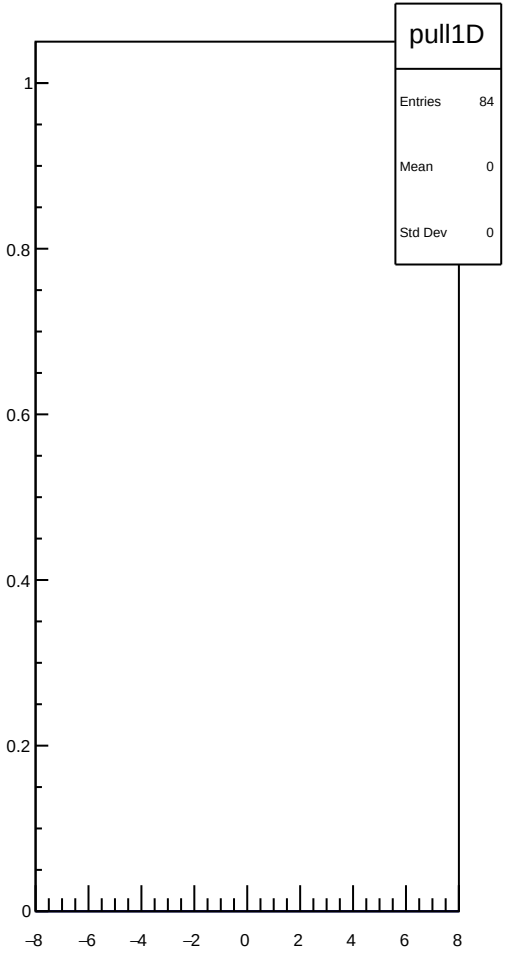

dit_sam8_4aY_slope vs run
χ² / ndf 3.099e−22 / 83
p0 −49.55 ± 0.005651
−49.5
−49.52
−49.54
−49.56
−49.58
−49.6
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹²
0
−0.5
−1
−1.5
−2

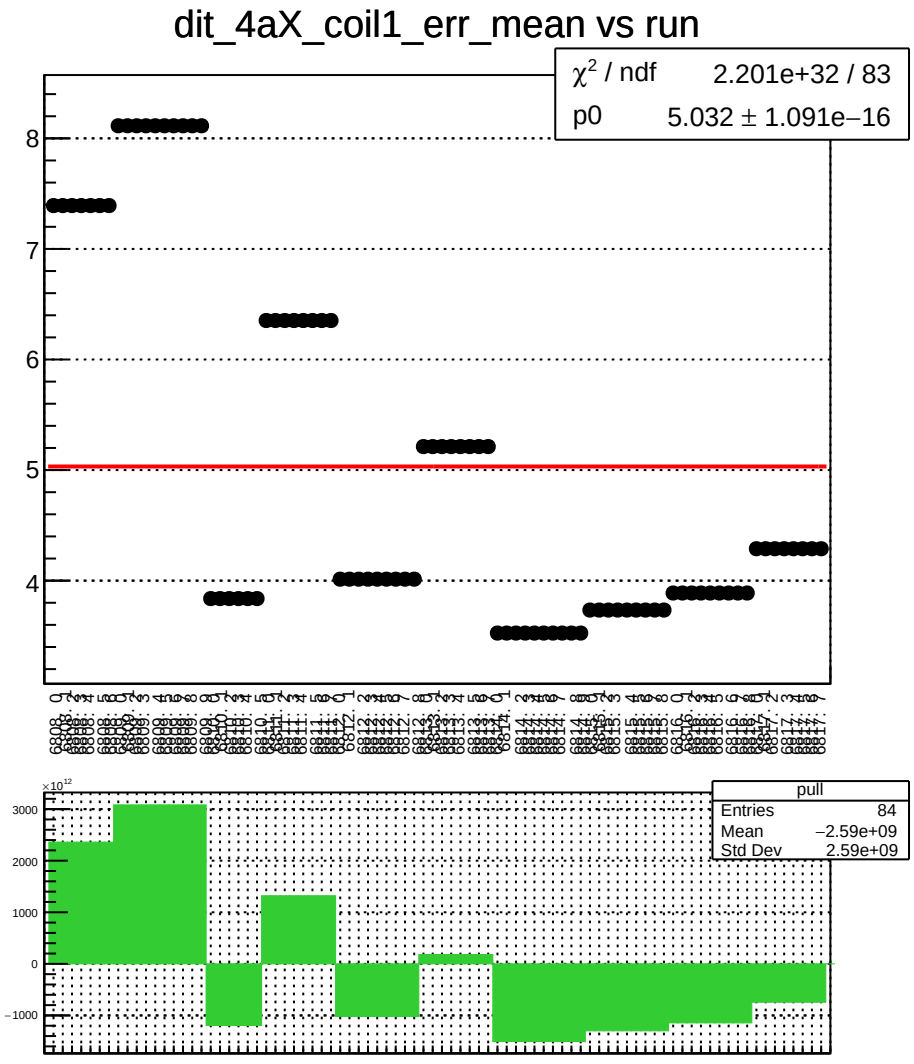

pull1D
Entries 84
Mean −1.921e−12
Std Dev1.084e−19
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

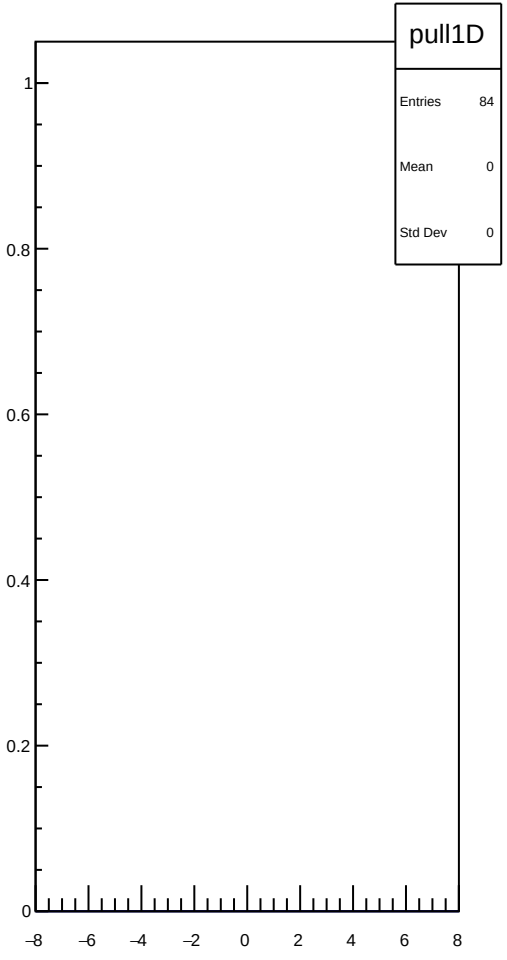

dit_sam8_4eY_slope vs run
χ² / ndf 8.226e−23 / 83
p0 55.15 ± 0.01253
55.25
55.2
55.15
55.1
55.05
pull
Entries 84
Mean 42
Std Dev 24.25
×10⁻¹²
0
−0.2
−0.4
−0.6
−0.8
−1

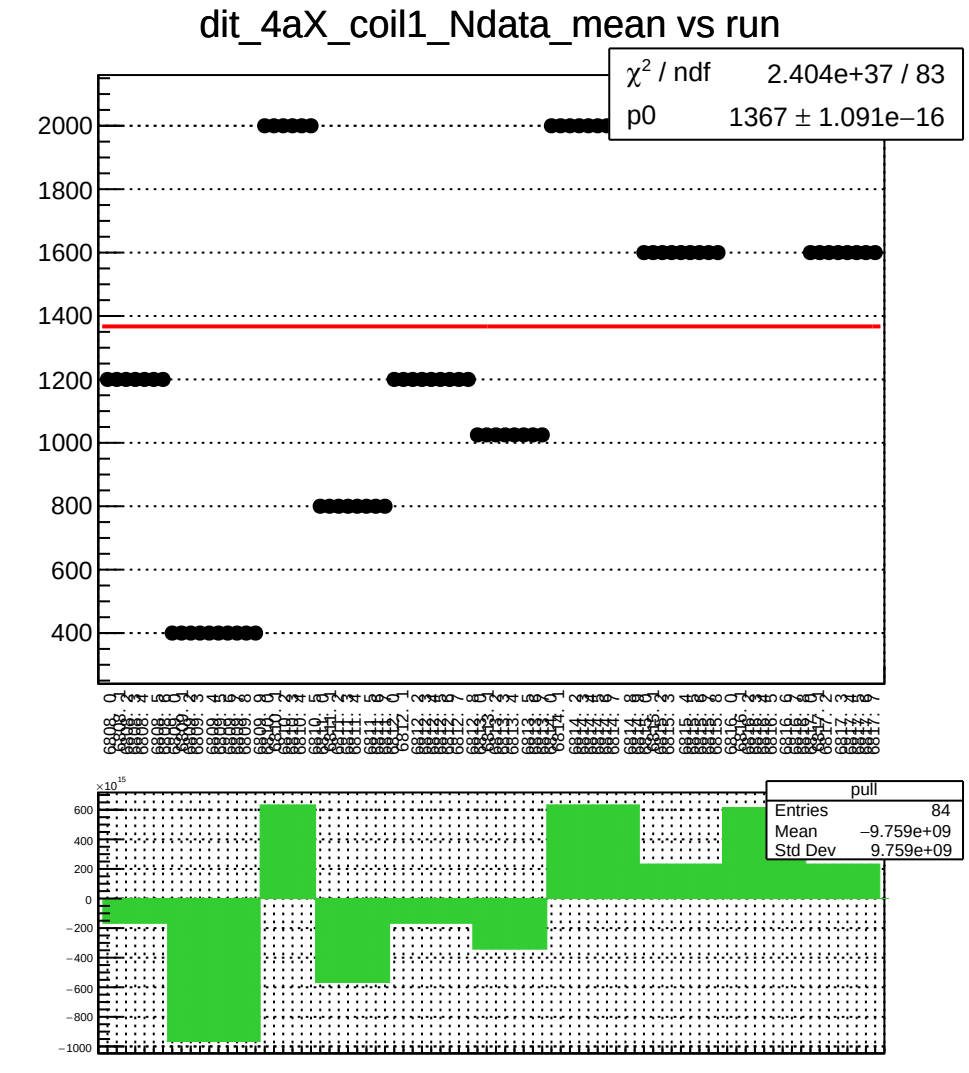

pull1D
Entries 84
Mean −9.896e−13
Std Dev 2.347e−20
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

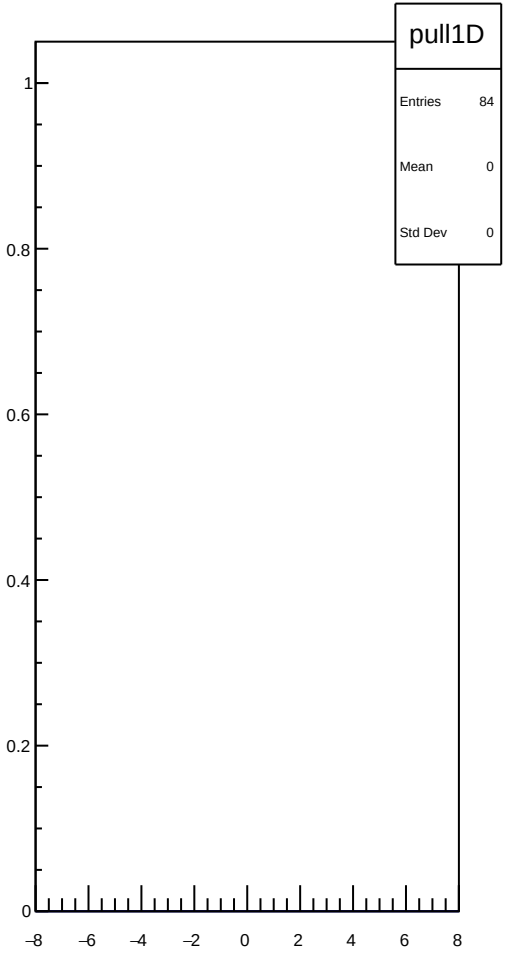

dit_4aX_coil1_mean vs run
χ^2 / ndf 9.05e+32 / 83
p0 −438.1 ± 1.091e−16
−430
−432
−434
−436
−438
−440
−442
−444
pull
Entries 84
Mean 8.504e+08
Std Dev 8.504e+08
×10^12
8000
6000
4000
2000
0
−2000
−4000

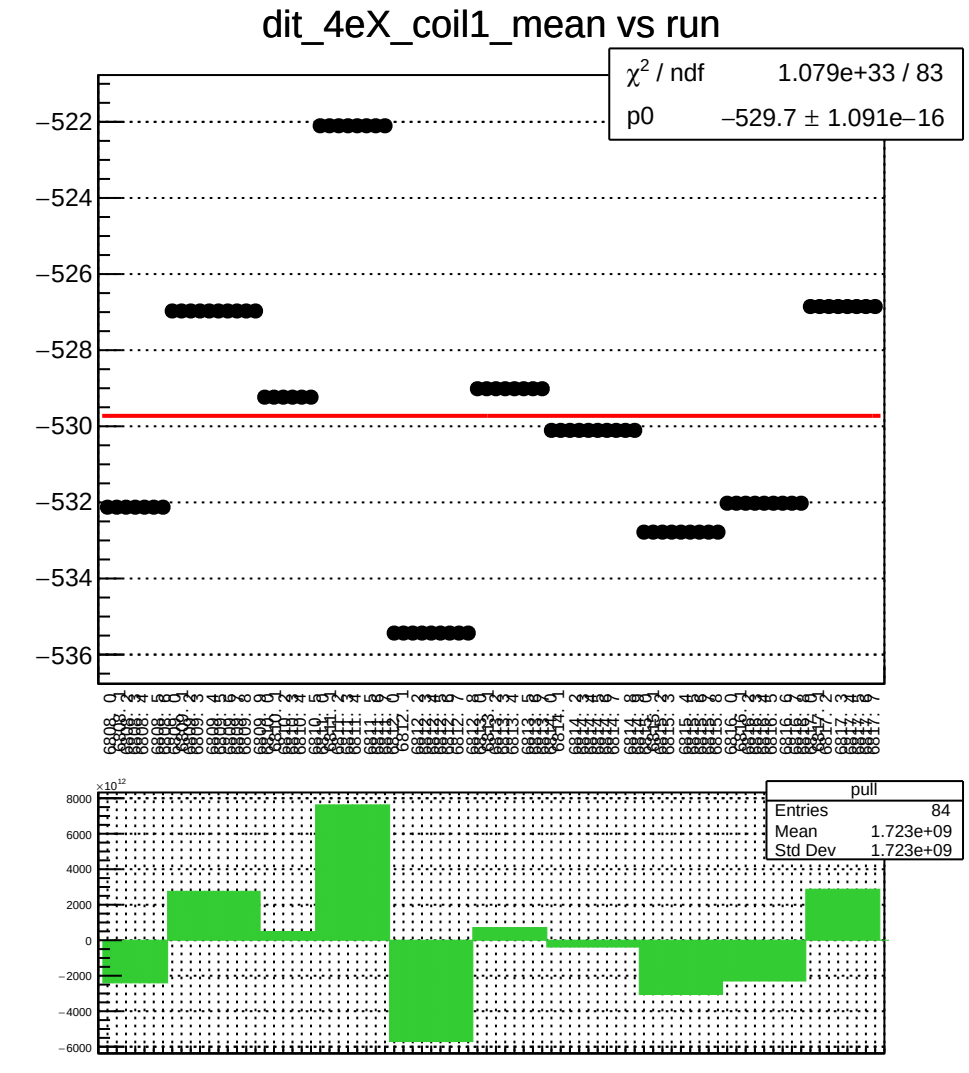

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

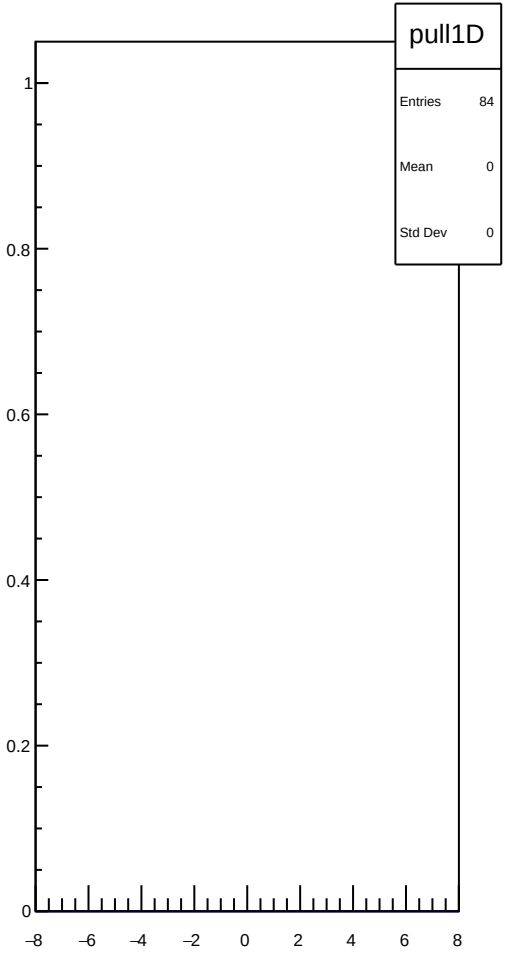

dit_4aX_coil1_err_mean vs run
χ² / ndf 2.201e+32 / 83
p0 5.032 ± 1.091e−16
pull
Entries 84
Mean −2.59e+09
Std Dev 2.59e+09
×10¹²

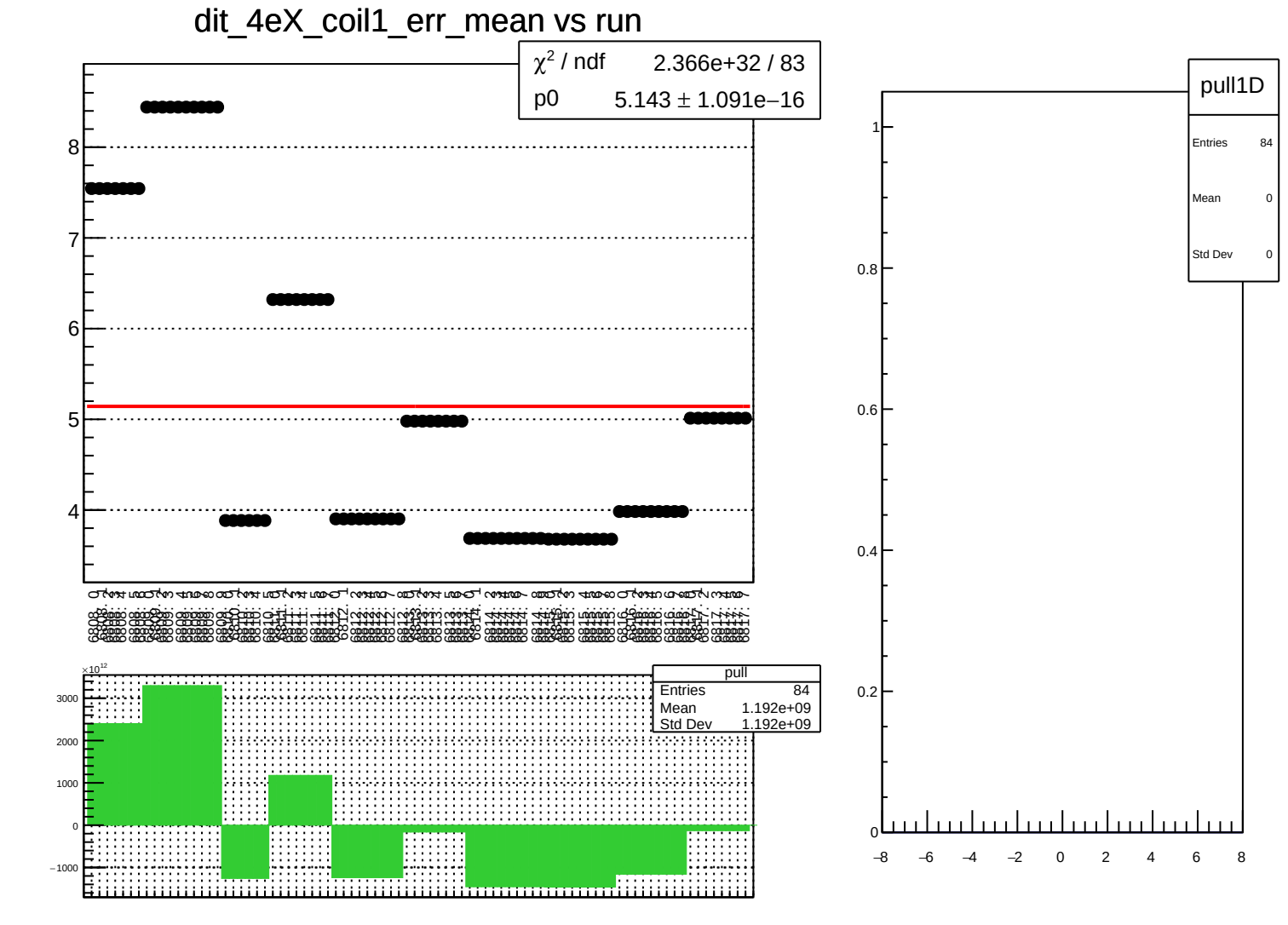

pull1D
Entries 84
Mean 0
Std Dev 0

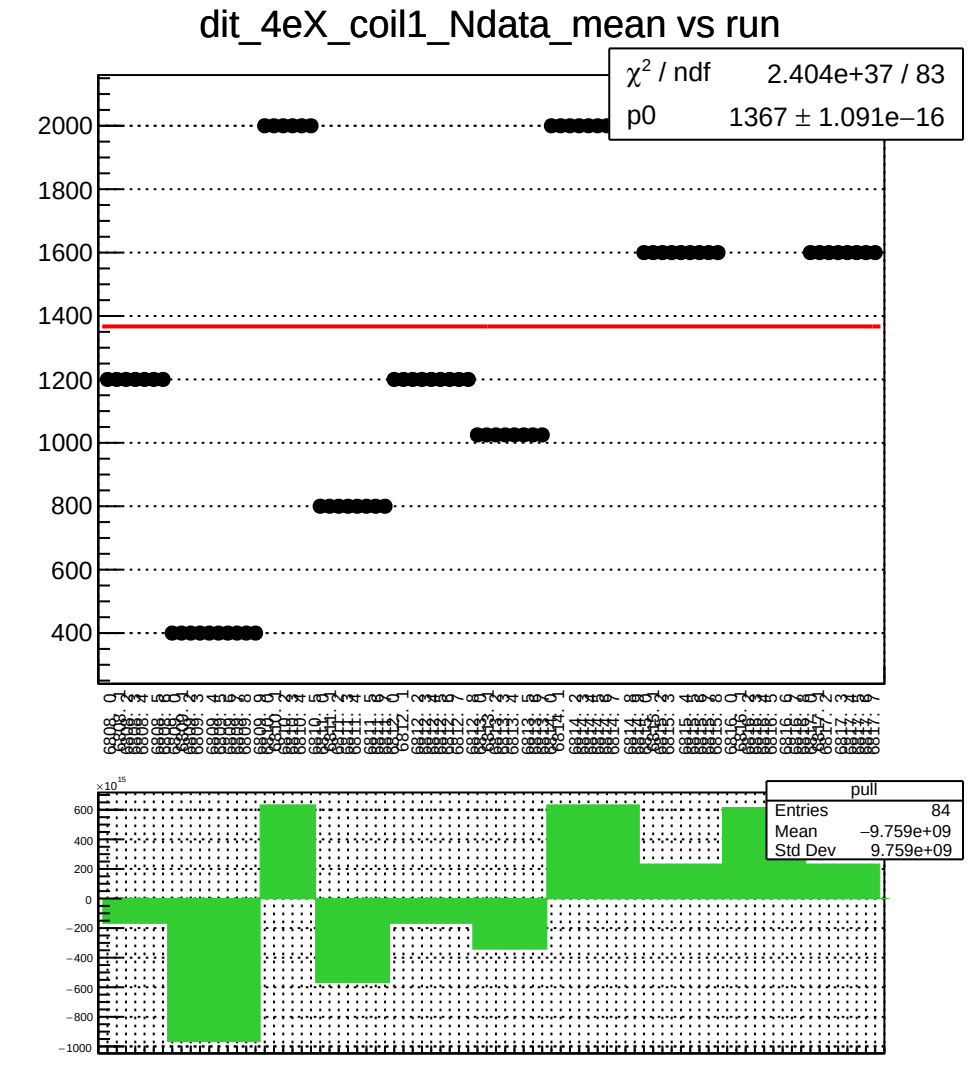

dit_4aX_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09

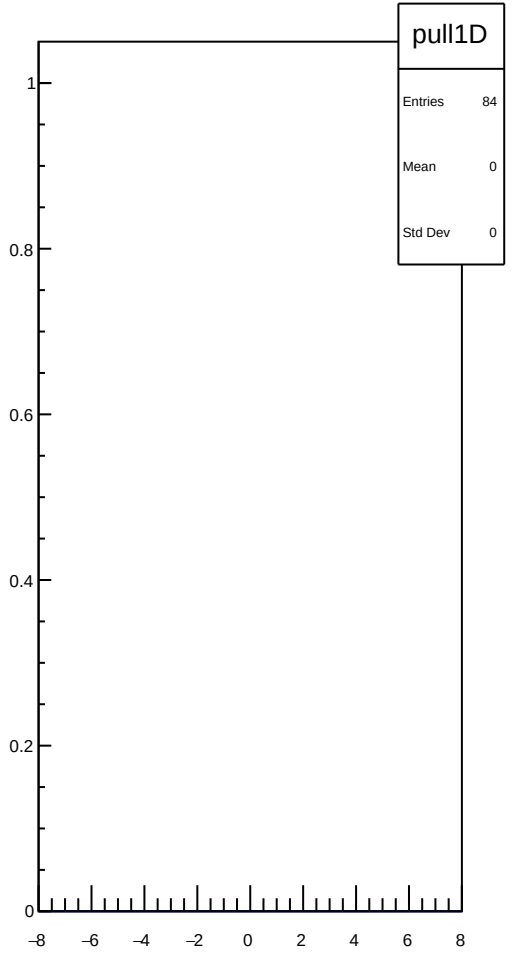

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

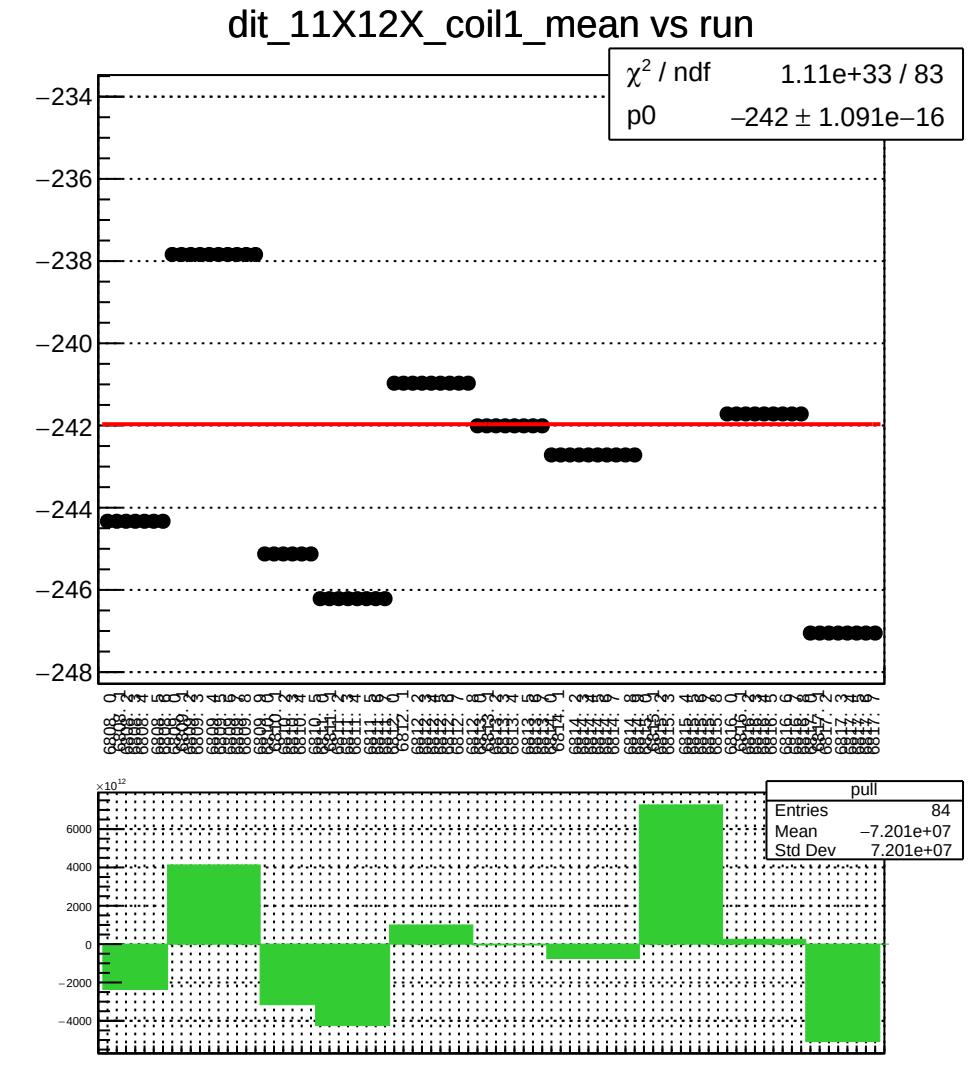

dit_4eX_coil1_mean vs run
χ² / ndf 1.079e+33 / 83
p0 −529.7 ± 1.091e−16
−522
−524
−526
−528
−530
−532
−534
−536
×10¹²
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 1.723e+09
Std Dev 1.723e+09

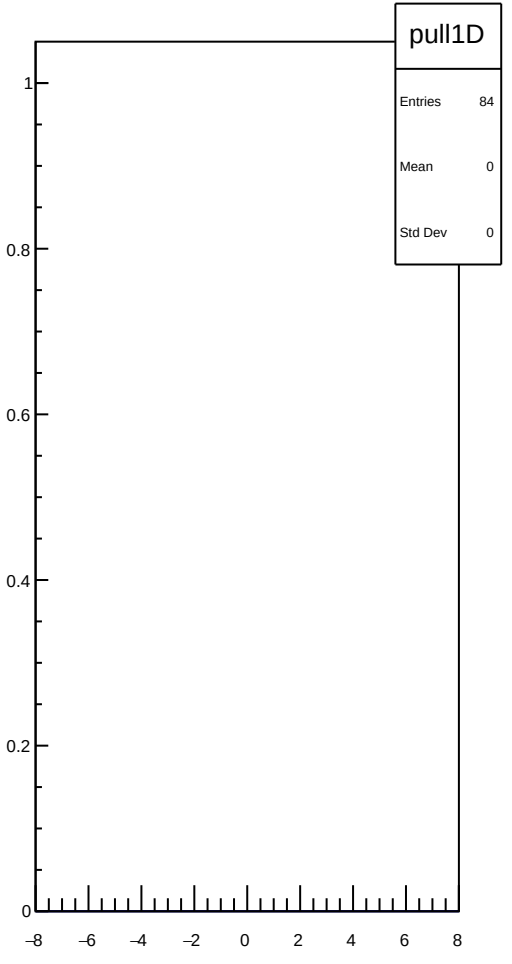

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

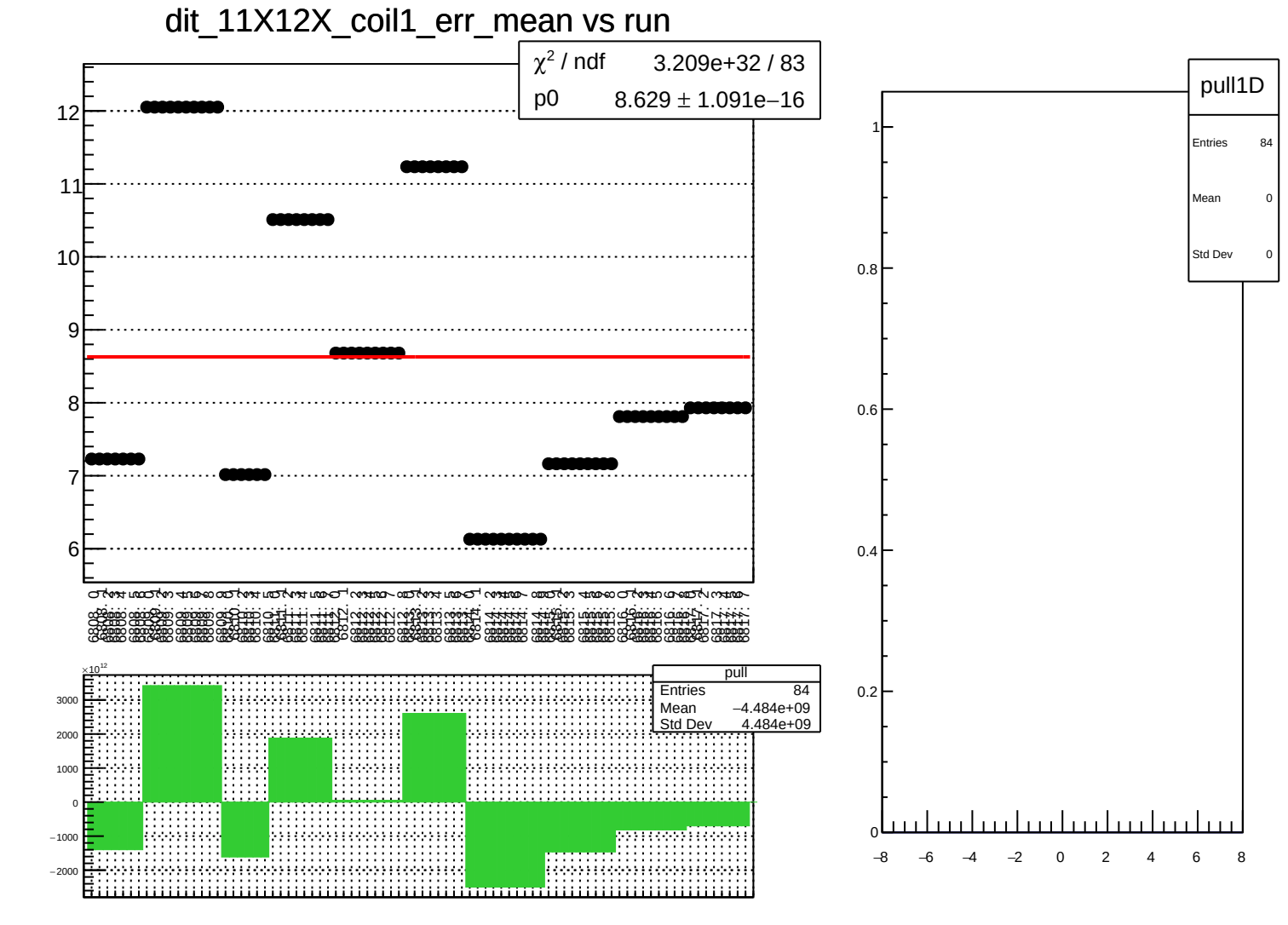

dit_4eX_coil1_err_mean vs run
χ² / ndf 2.366e+32 / 83
p0 5.143 ± 1.091e−16
pull
Entries 84
Mean 1.192e+09
Std Dev 1.192e+09
pull1D
Entries 84
Mean 0
Std Dev 0

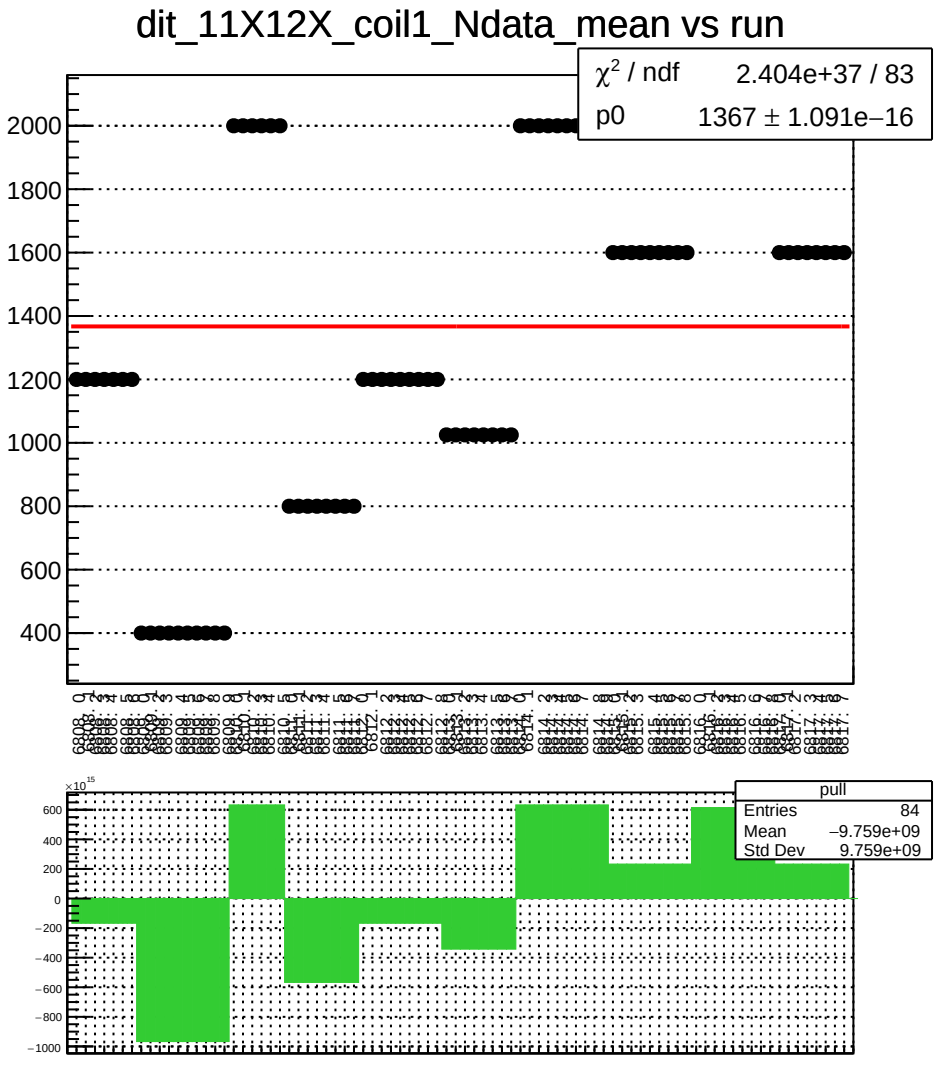

dit_4eX_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09

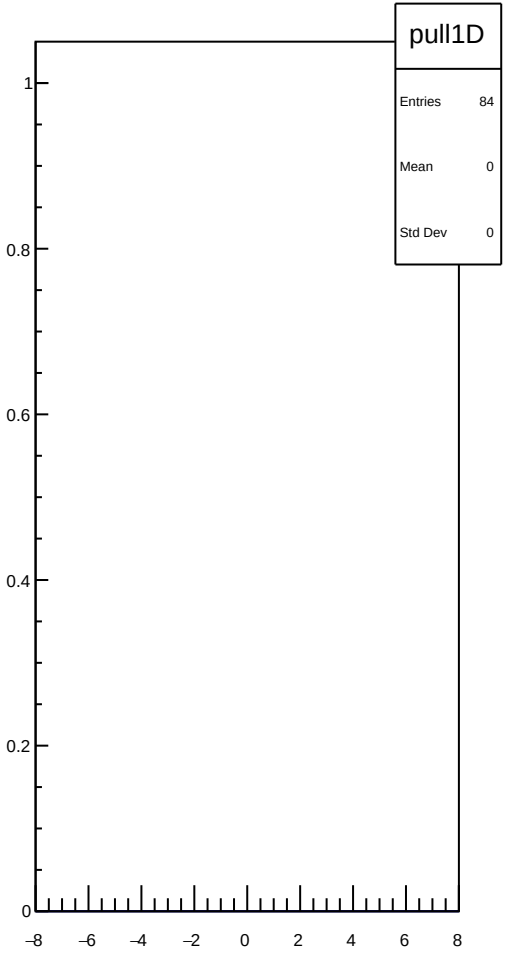

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

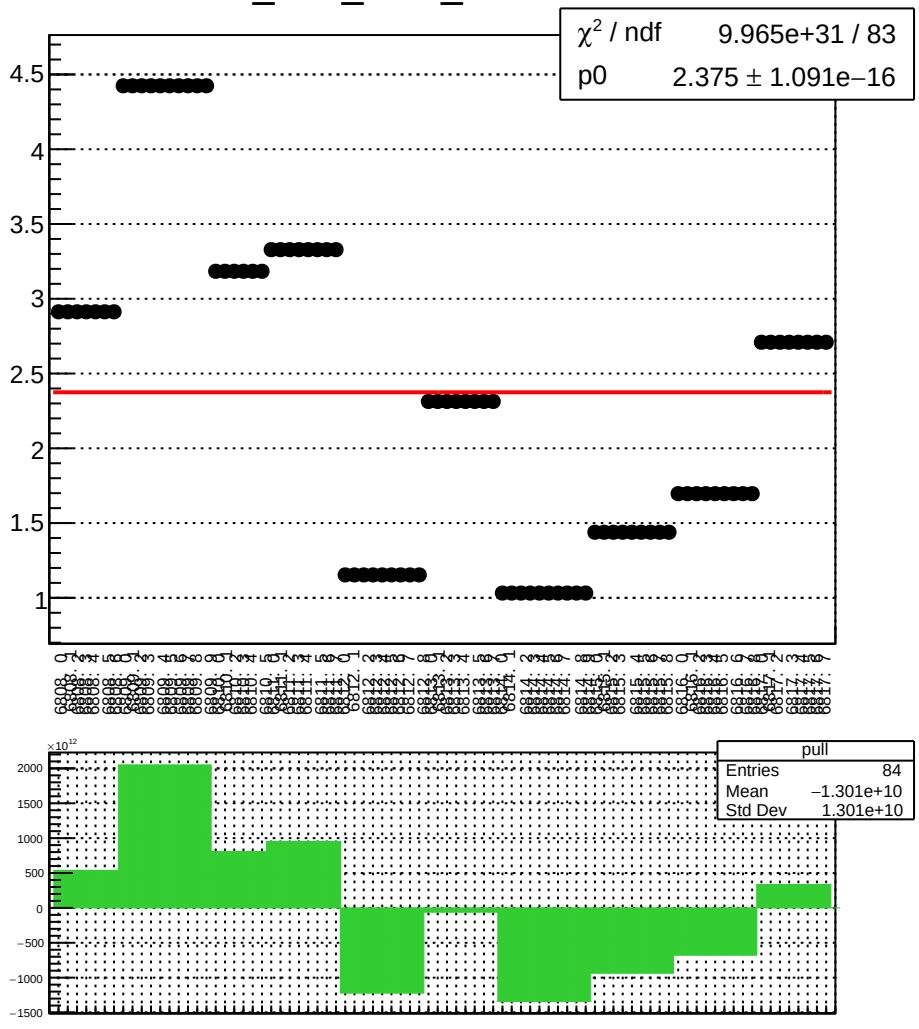

dit_11X12X_coil1_mean vs run
χ² / ndf 1.11e+33 / 83
p0 −242 ± 1.091e−16
−234
−236
−238
−240
−242
−244
−246
−248
pull
Entries 84
Mean −7.201e+07
Std Dev 7.201e+07
×10¹²
6000
4000
2000
0
−2000
−4000

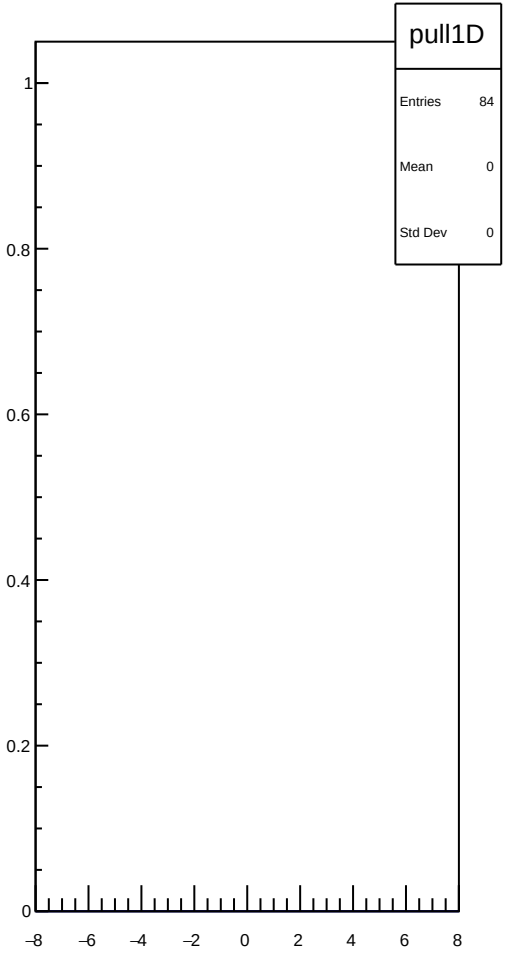

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

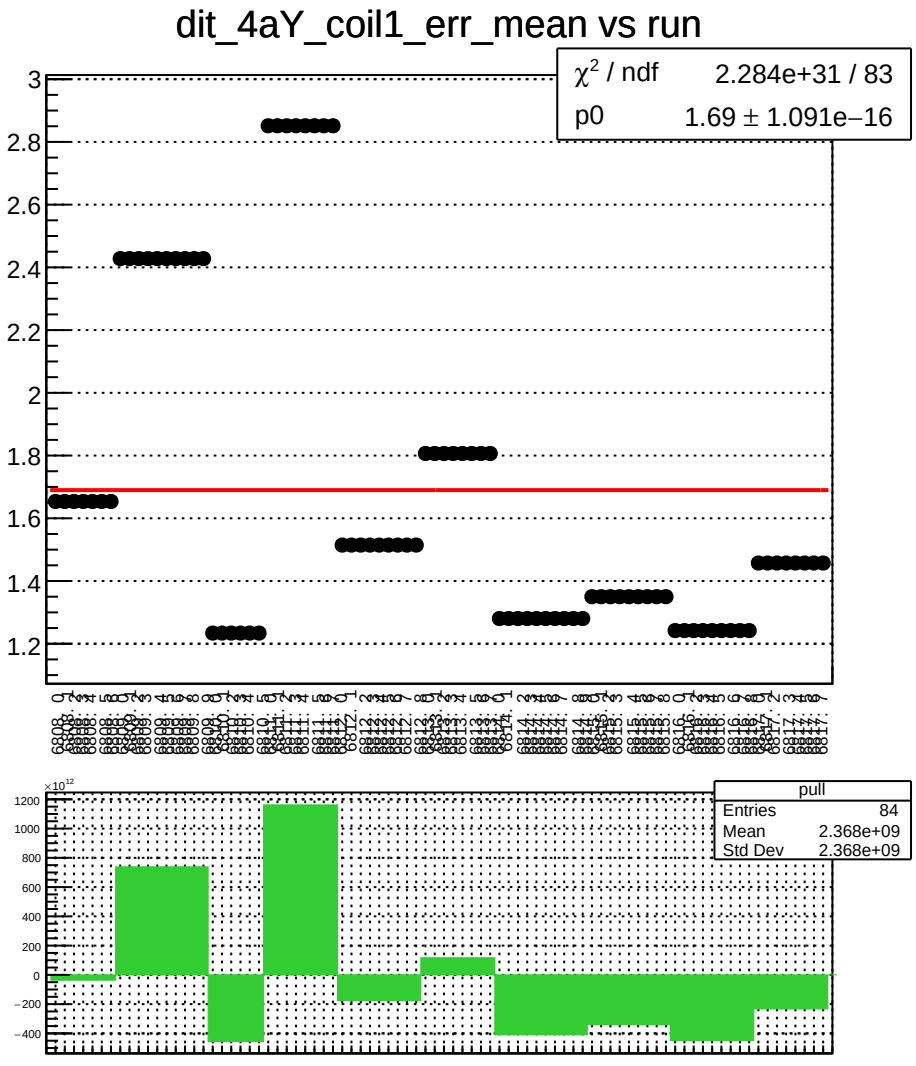

dit_11X12X_coil1_err_mean vs run
χ² / ndf 3.209e+32 / 83
p0 8.629 ± 1.091e−16
pull
Entries 84
Mean −4.484e+09
Std Dev 4.484e+09
pull1D
Entries 84
Mean 0
Std Dev 0

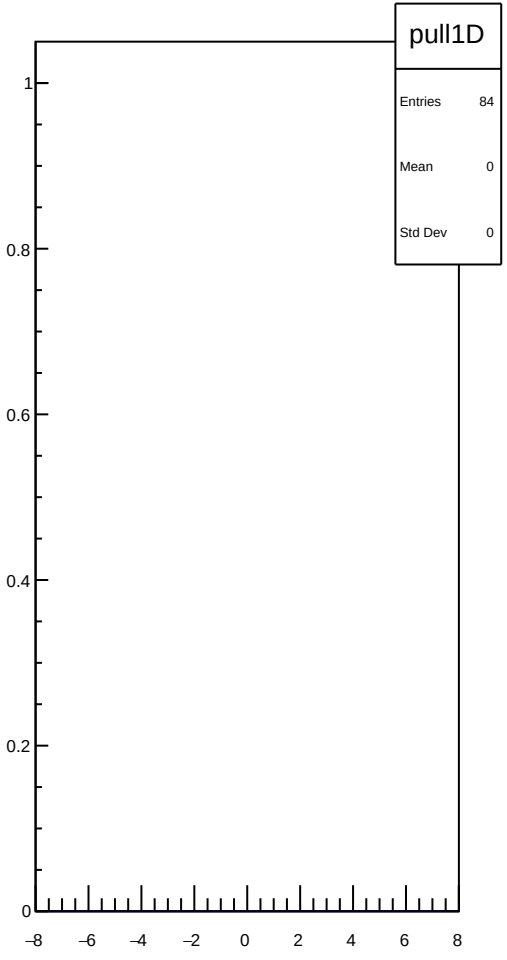

dit_11X12X_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

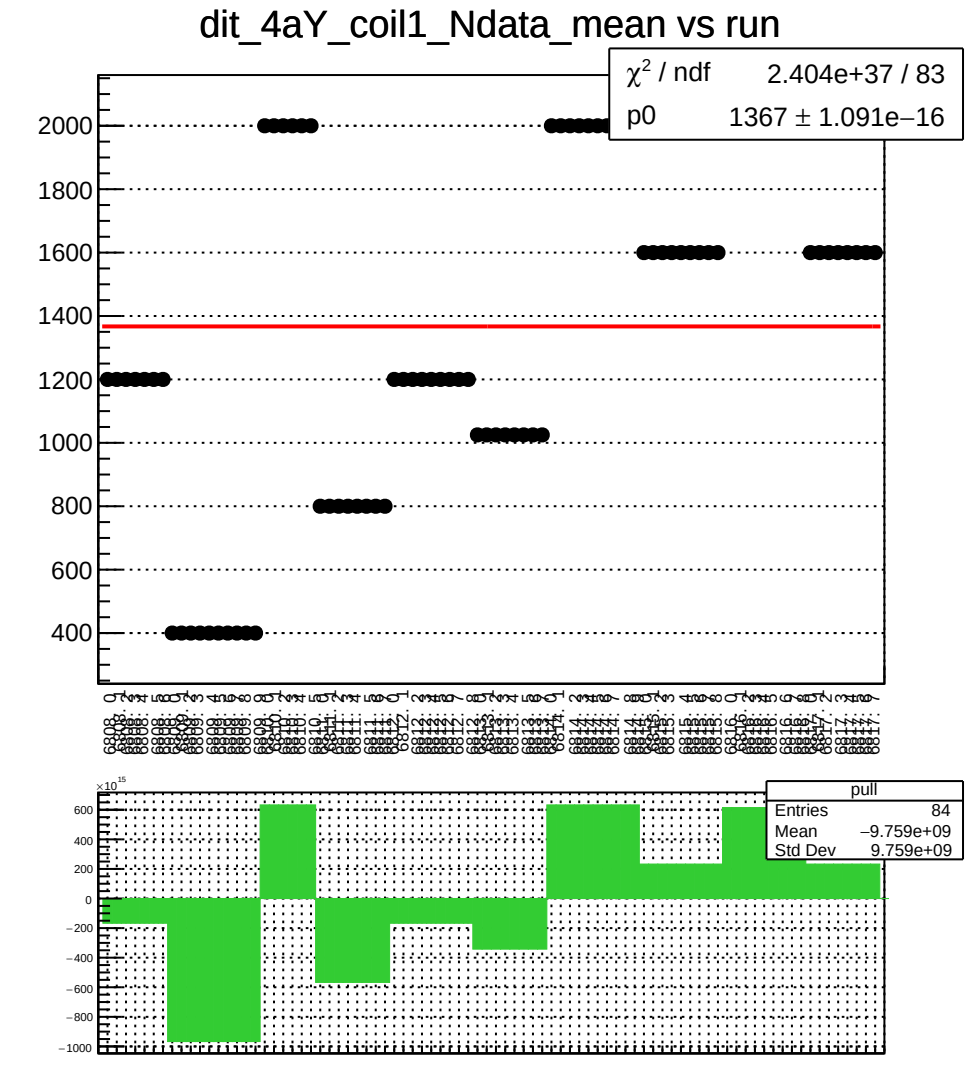

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

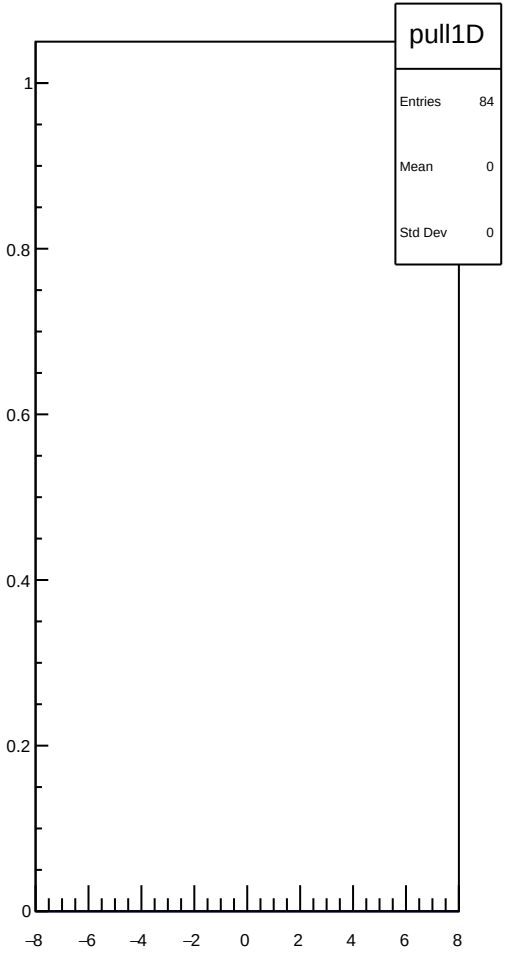

dit_4aY_coil1_mean vs run
χ² / ndf 9.965e+31 / 83
p0 2.375 ± 1.091e−16
pull
Entries 84
Mean −1.301e+10
Std Dev 1.301e+10

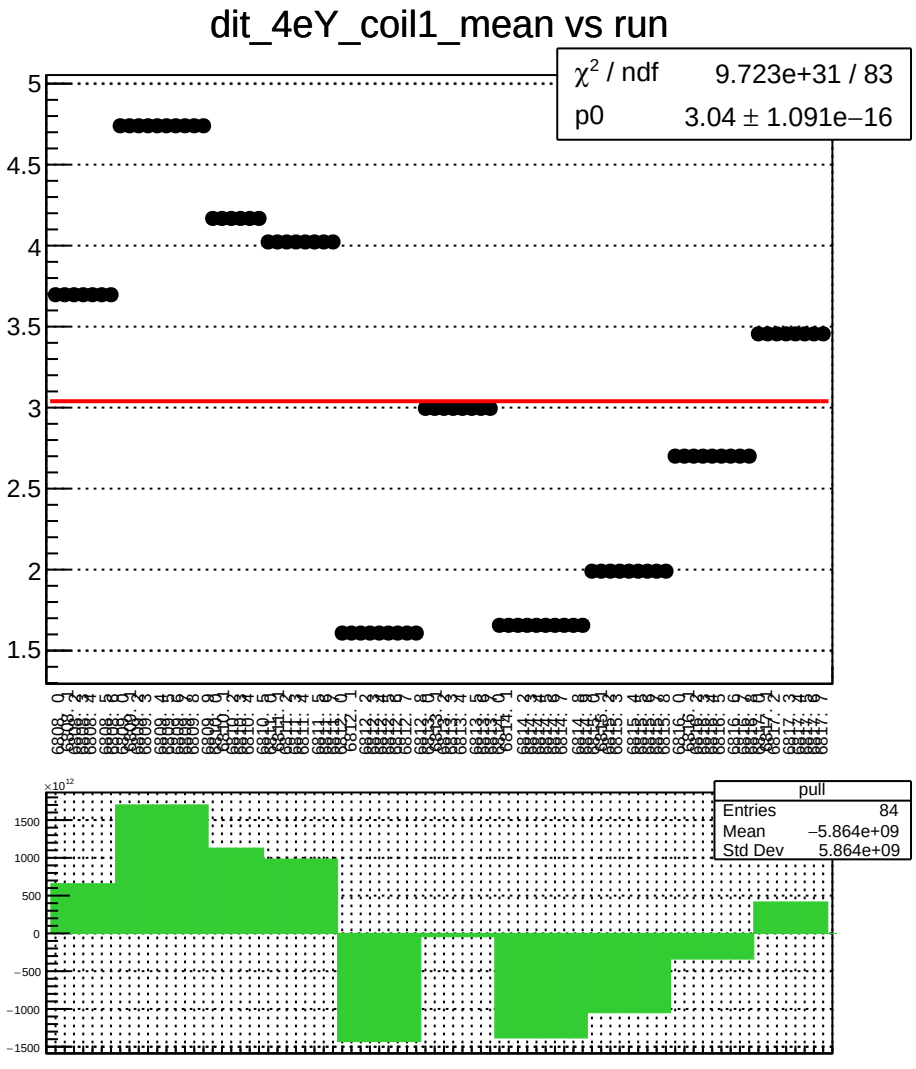

pull1D
Entries 84
Mean 0
Std Dev 0

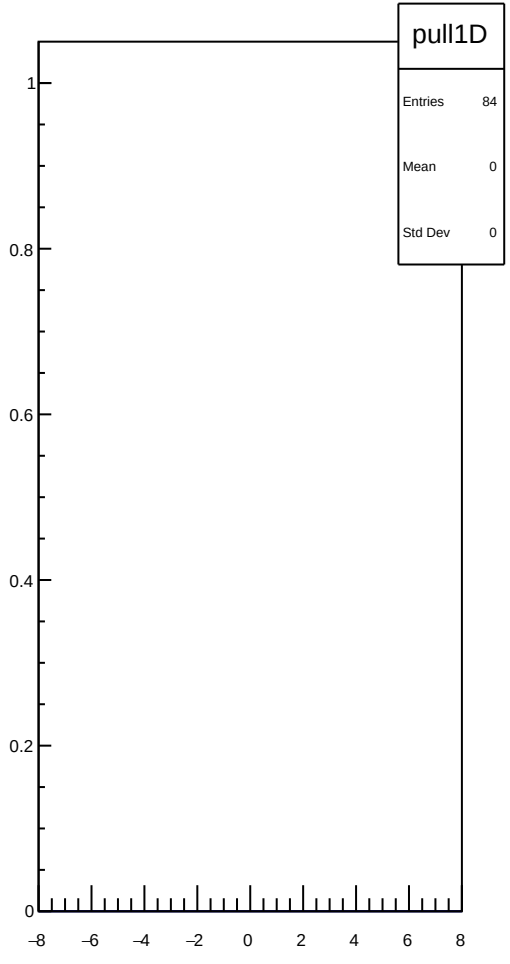

dit_4aY_coil1_err_mean vs run
χ² / ndf 2.284e+31 / 83
p0 1.69 ± 1.091e−16
pull
Entries 84
Mean 2.368e+09
Std Dev 2.368e+09

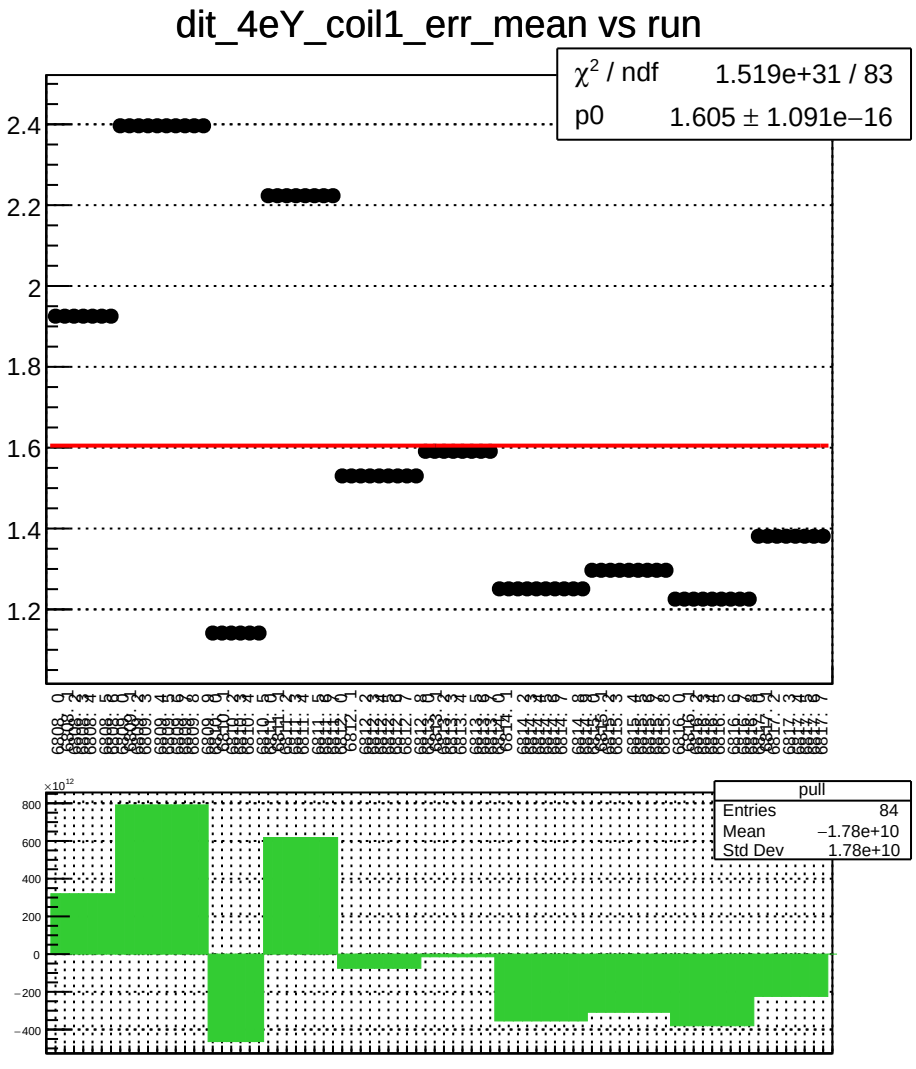

pull1D
Entries 84
Mean 0
Std Dev 0

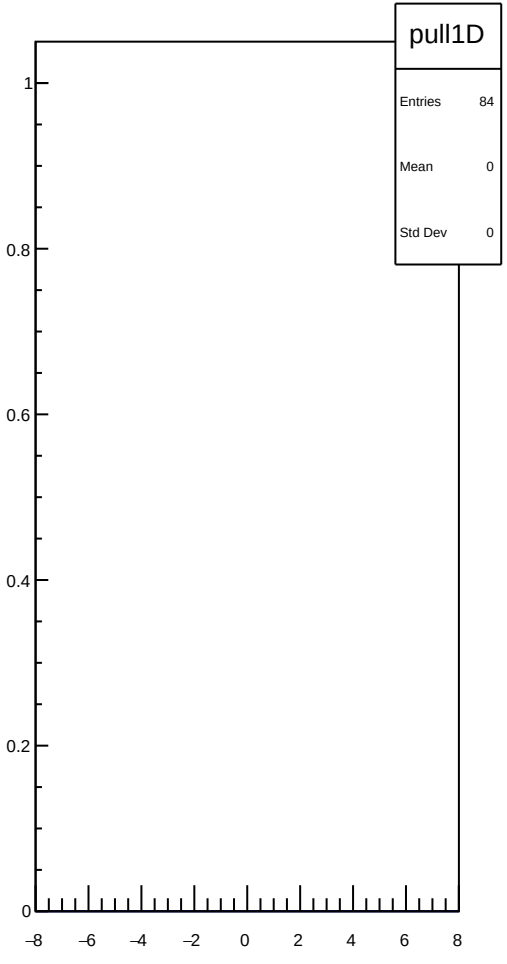

dit_4aY_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

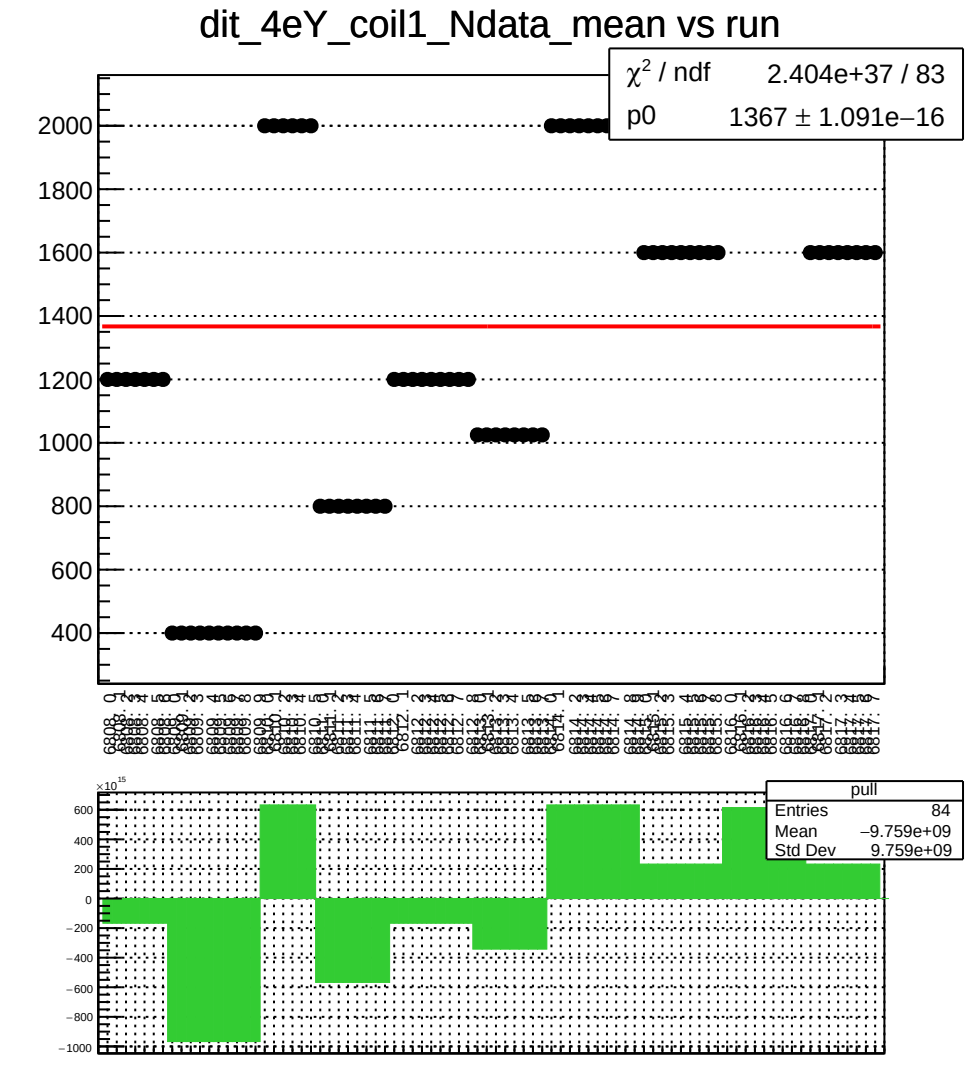

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

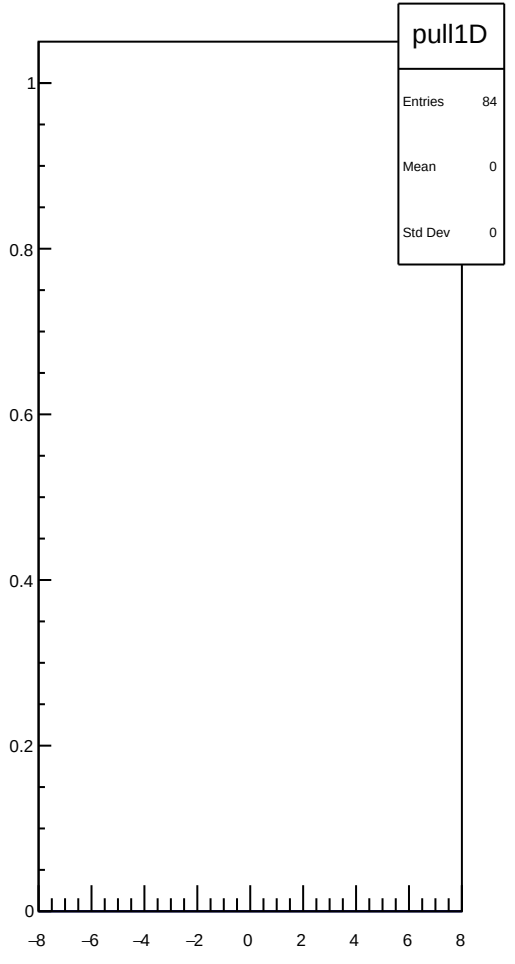

dit_4eY_coil1_mean vs run
χ² / ndf 9.723e+31 / 83
p0 3.04 ± 1.091e−16
pull
Entries 84
Mean −5.864e+09
Std Dev 5.864e+09
×10¹²

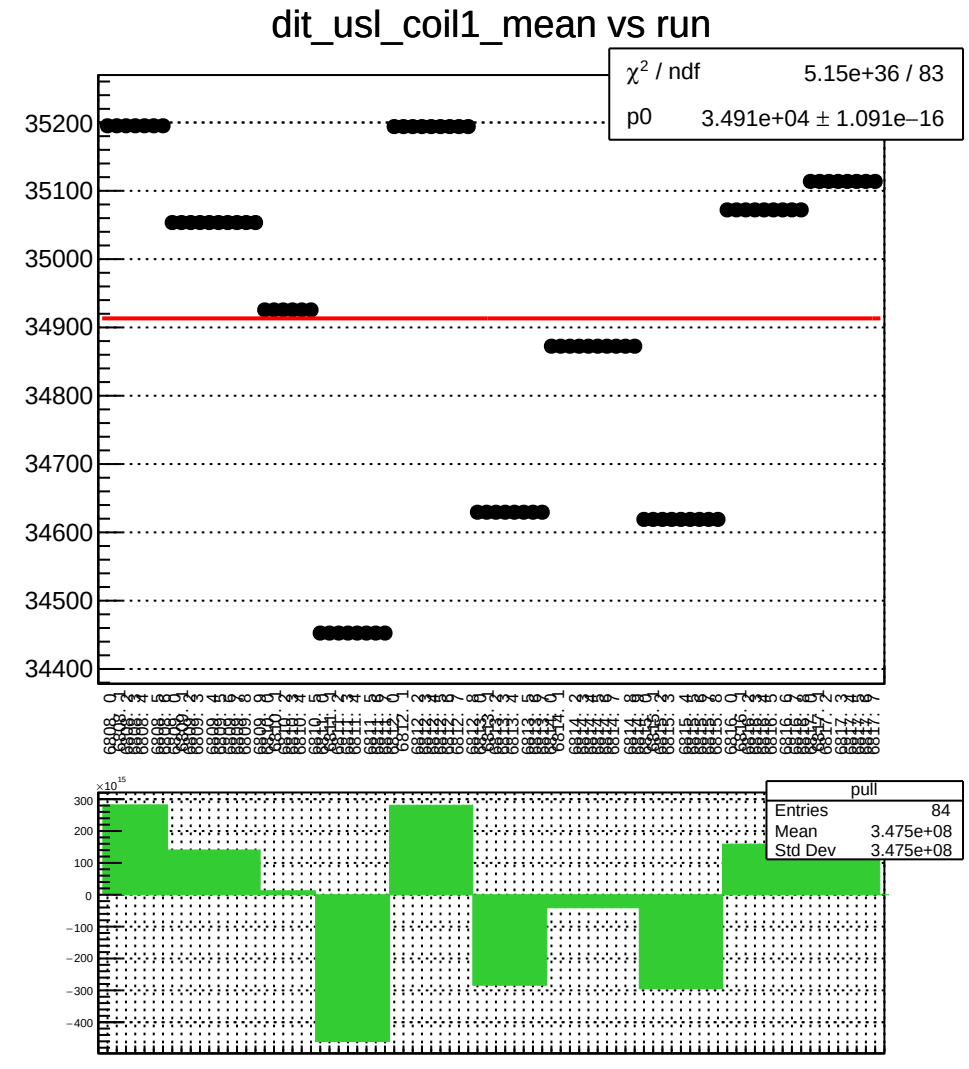

pull1D
Entries 84
Mean 0
Std Dev 0

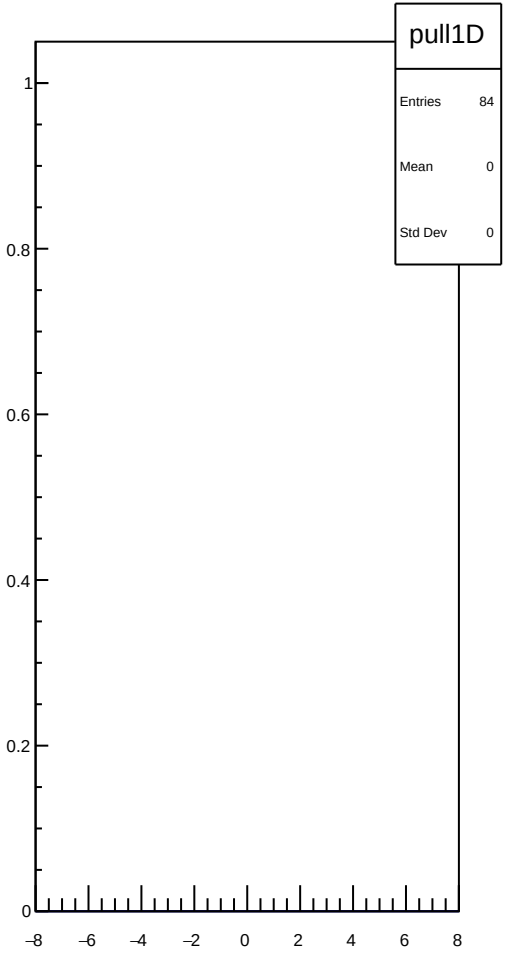

dit_4eY_coil1_err_mean vs run
χ² / ndf 1.519e+31 / 83
p0 1.605 ± 1.091e−16
pull
Entries 84
Mean −1.78e+10
Std Dev 1.78e+10

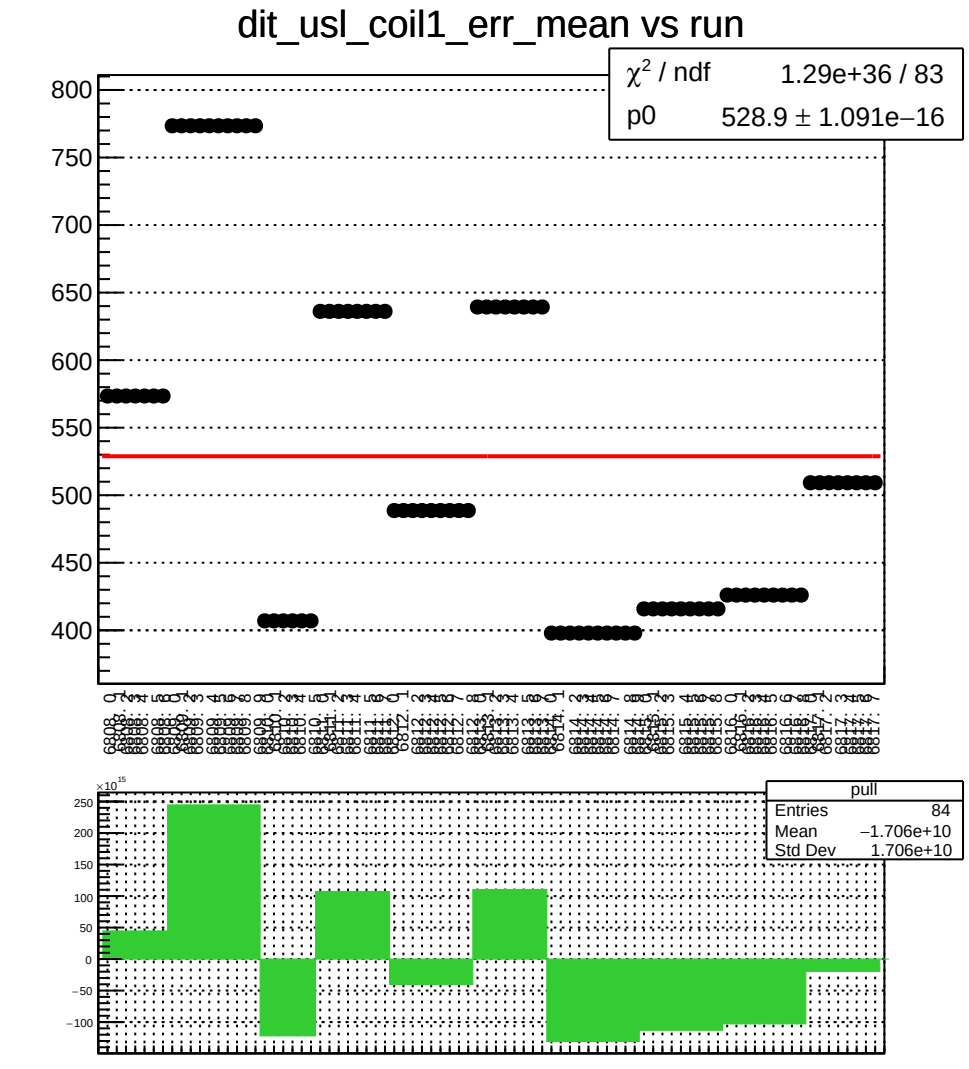

pull1D
Entries 84
Mean 0
Std Dev 0

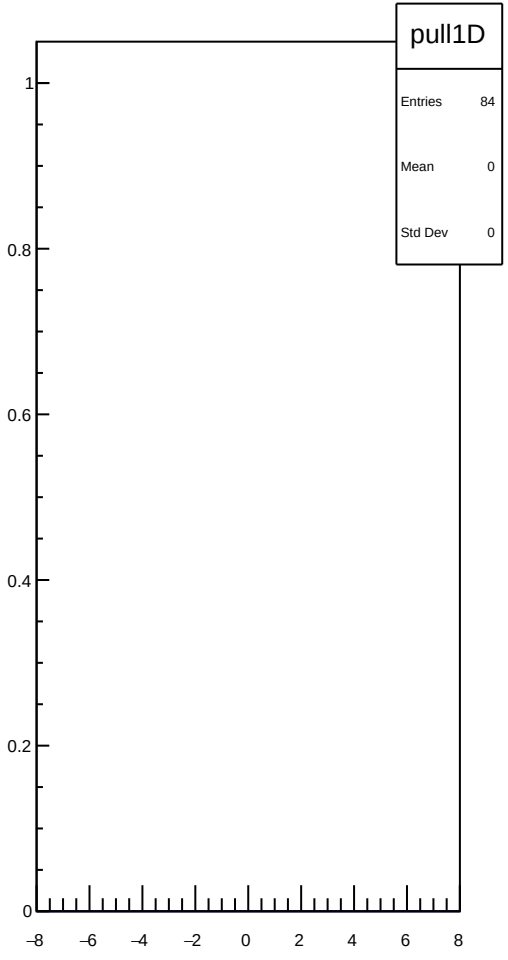

dit_4eY_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09

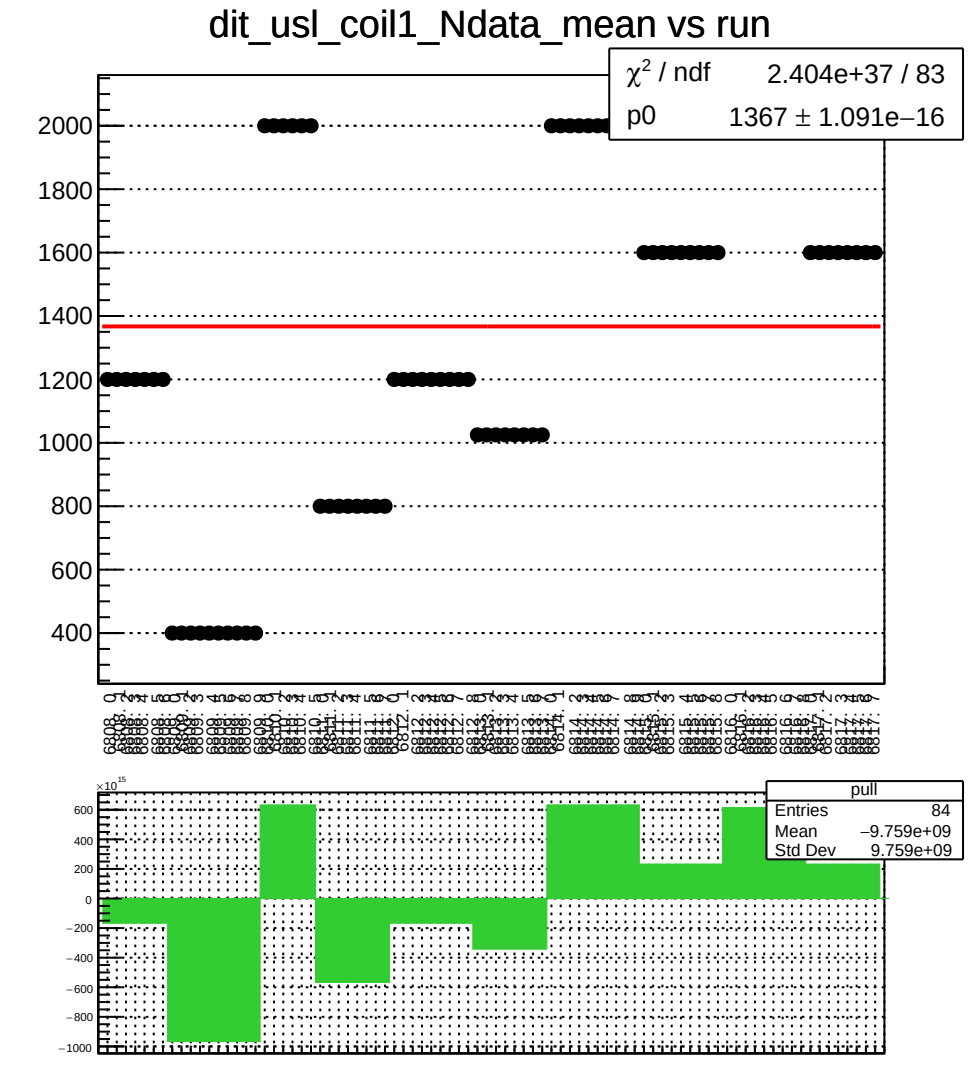

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

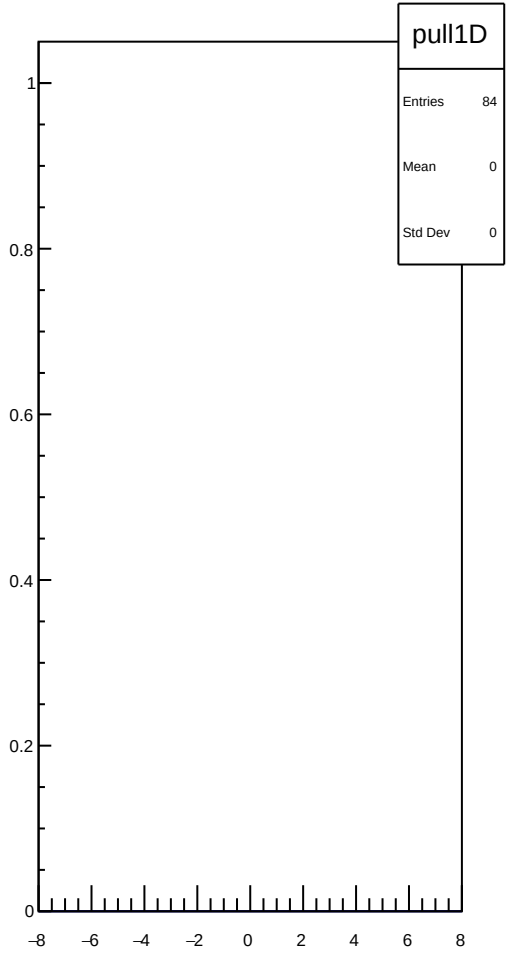

dit_usl_coil1_mean vs run
χ² / ndf 5.15e+36 / 83
p0 3.491e+04 ± 1.091e−16
35200
35100
35000
34900
34800
34700
34600
34500
34400
pull
Entries 84
Mean 3.475e+08
Std Dev 3.475e+08
×10¹⁵
300
200
100
0
−100
−200
−300
−400

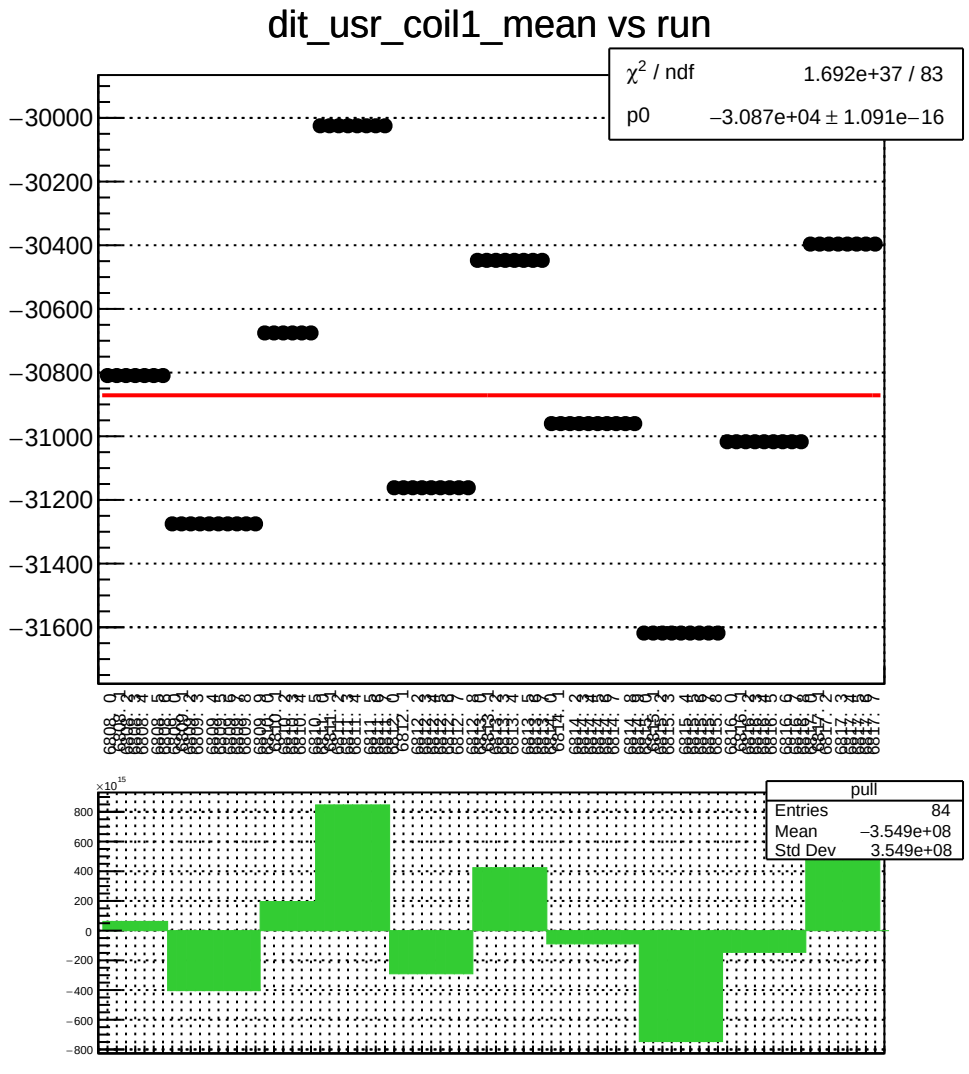

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

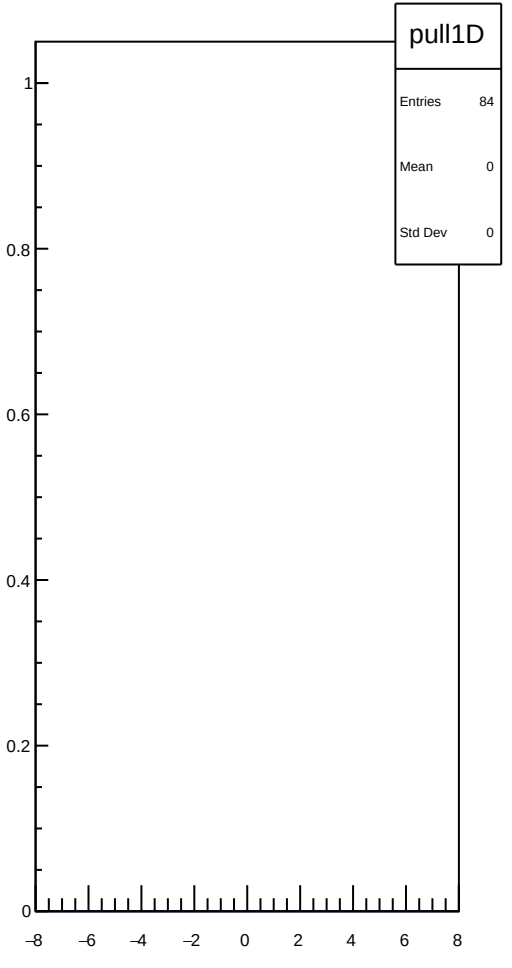

dit_usl_coil1_err_mean vs run
χ² / ndf 1.29e+36 / 83
p0 528.9 ± 1.091e−16
pull
Entries 84
Mean −1.706e+10
Std Dev 1.706e+10

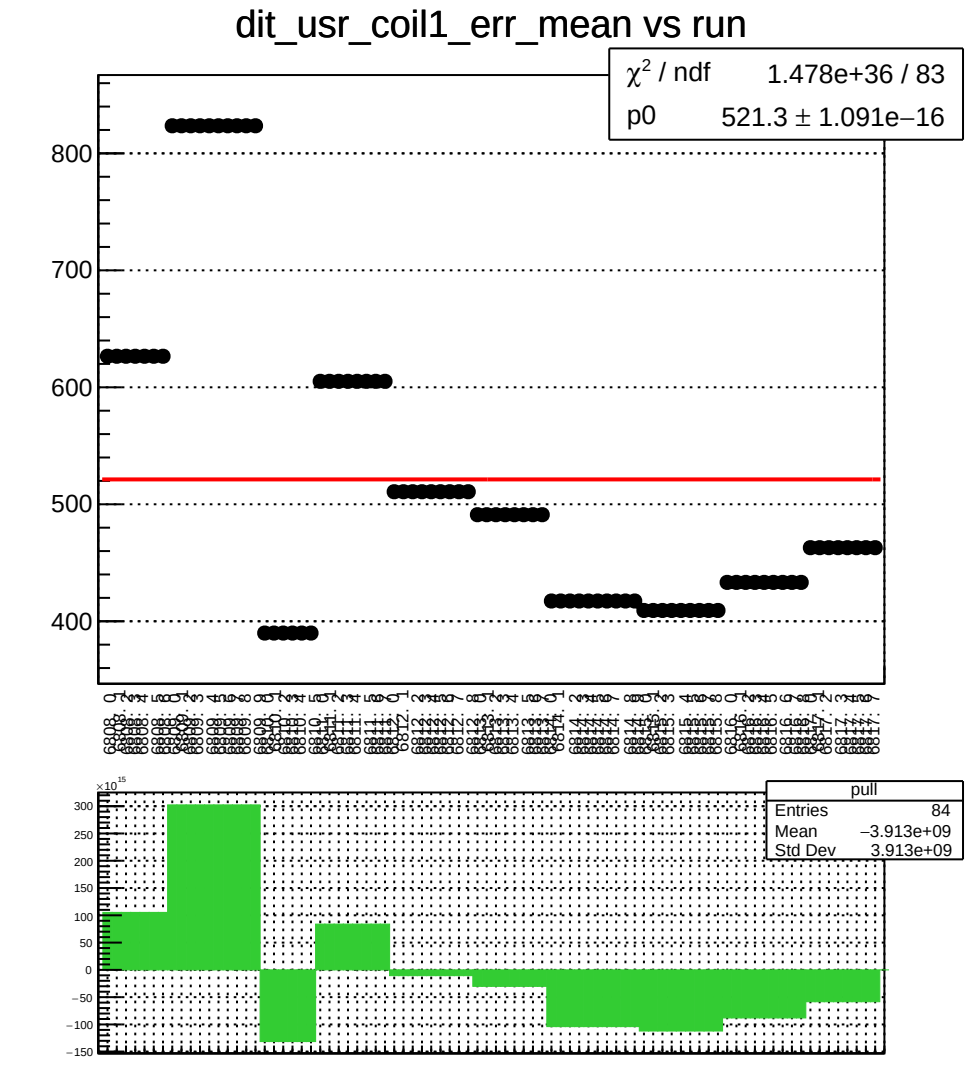

pull1D
Entries 84
Mean 0
Std Dev 0

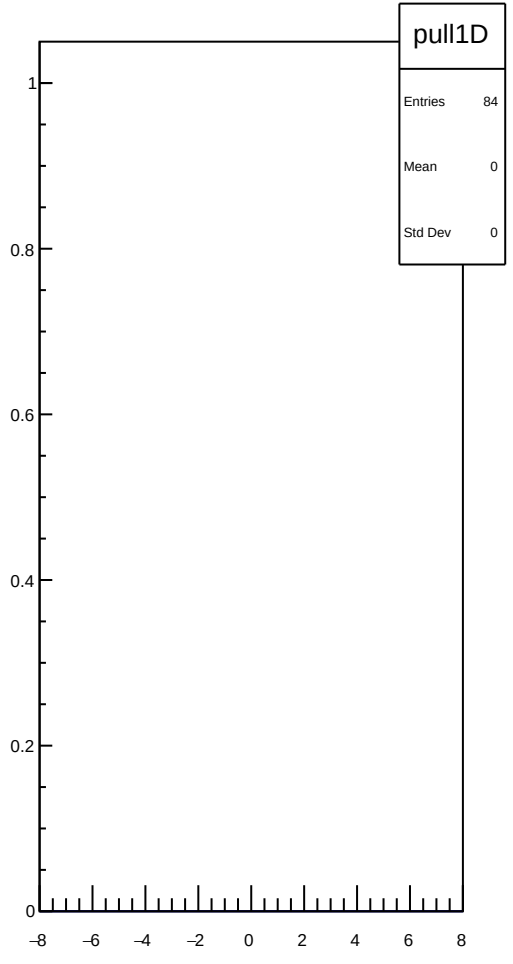

dit_usl_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

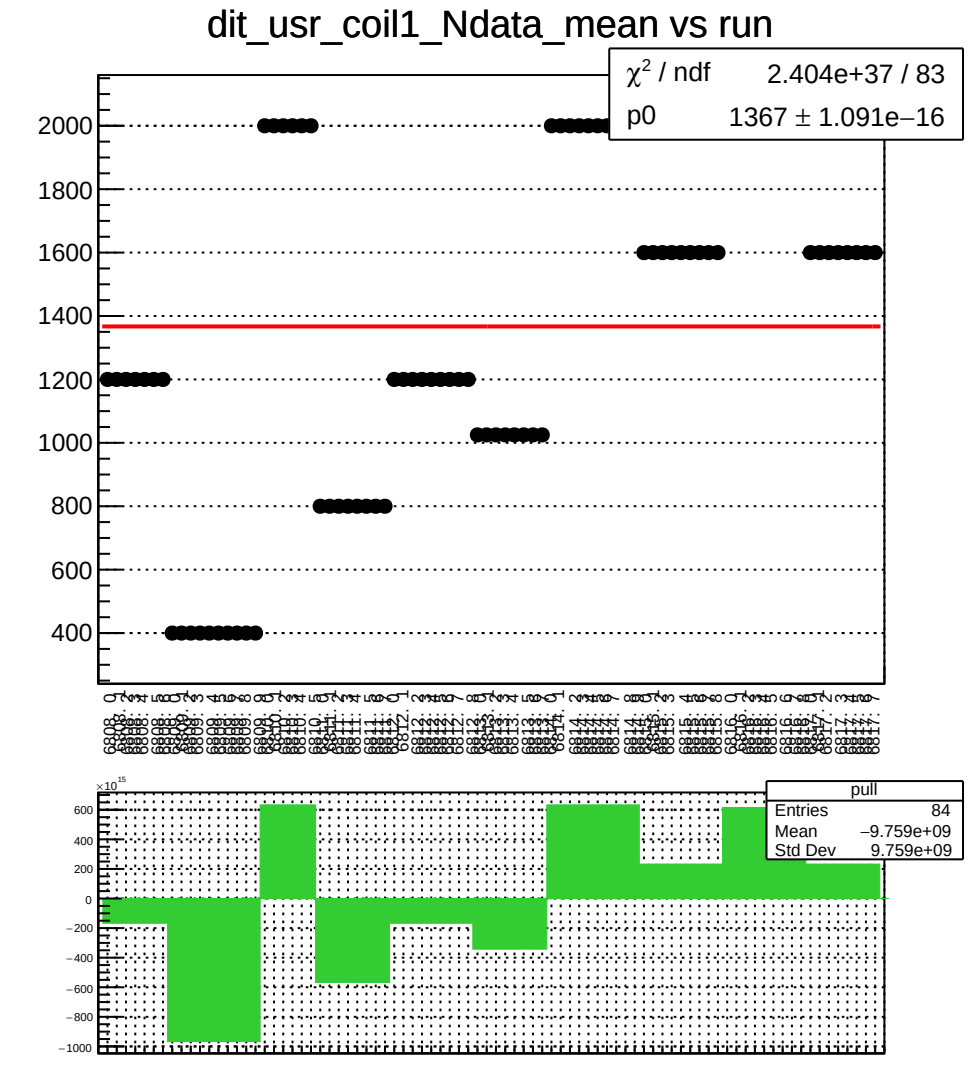

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

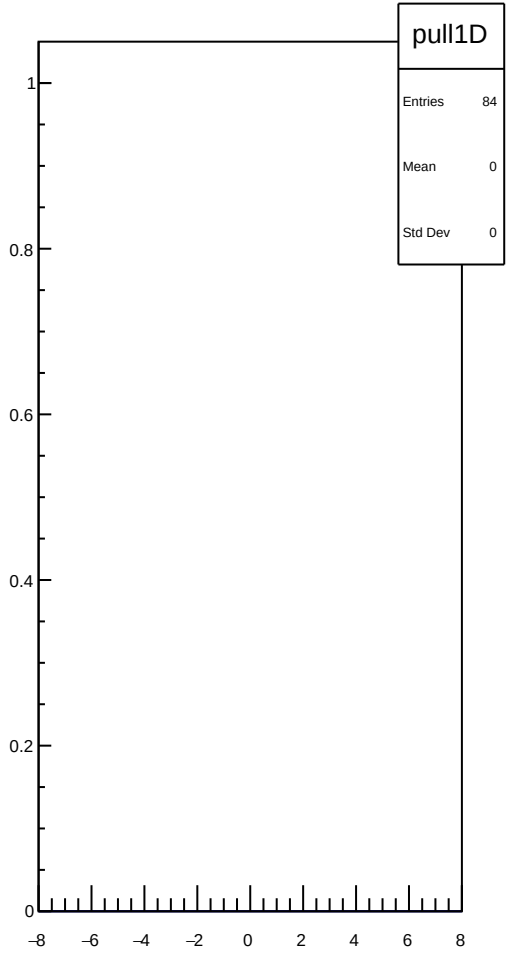

dit_usr_coil1_mean vs run
χ² / ndf 1.692e+37 / 83
p0 −3.087e+04 ± 1.091e−16
−30000
−30200
−30400
−30600
−30800
−31000
−31200
−31400
−31600
×10¹⁵
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 84
Mean −3.549e+08
Std Dev 3.549e+08

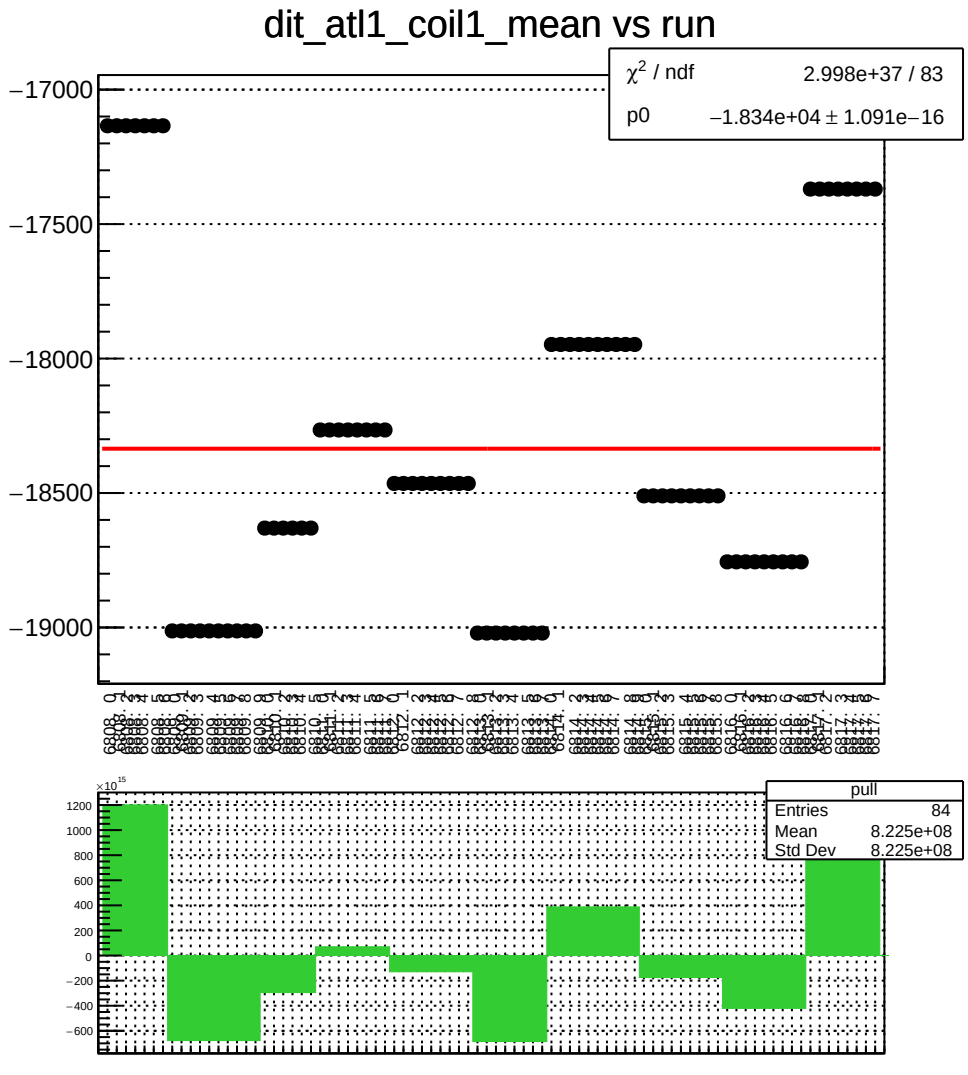

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

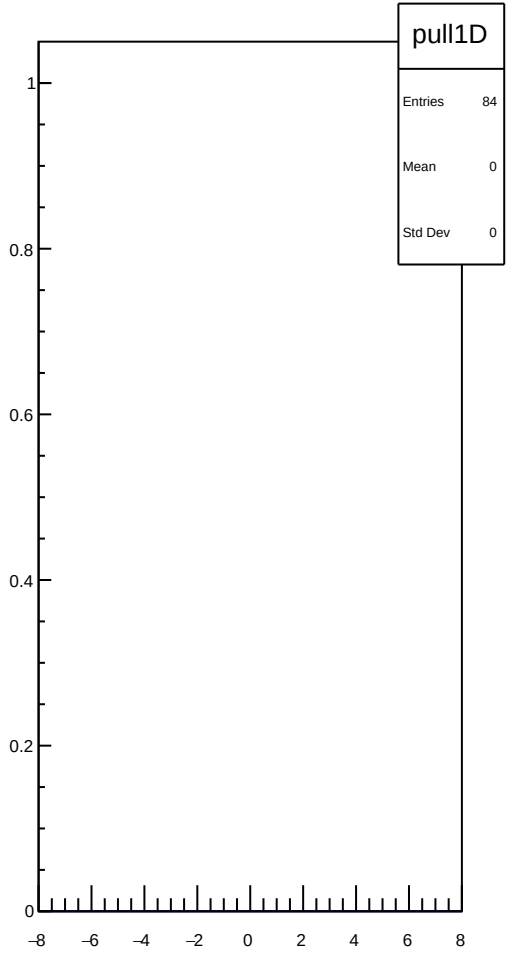

dit_usr_coil1_err_mean vs run
χ² / ndf 1.478e+36 / 83
p0 521.3 ± 1.091e−16
800
700
600
500
400
pull
Entries 84
Mean −3.913e+09
Std Dev 3.913e+09
×10¹⁵
300
250
200
150
100
50
0
−50
−100
−150

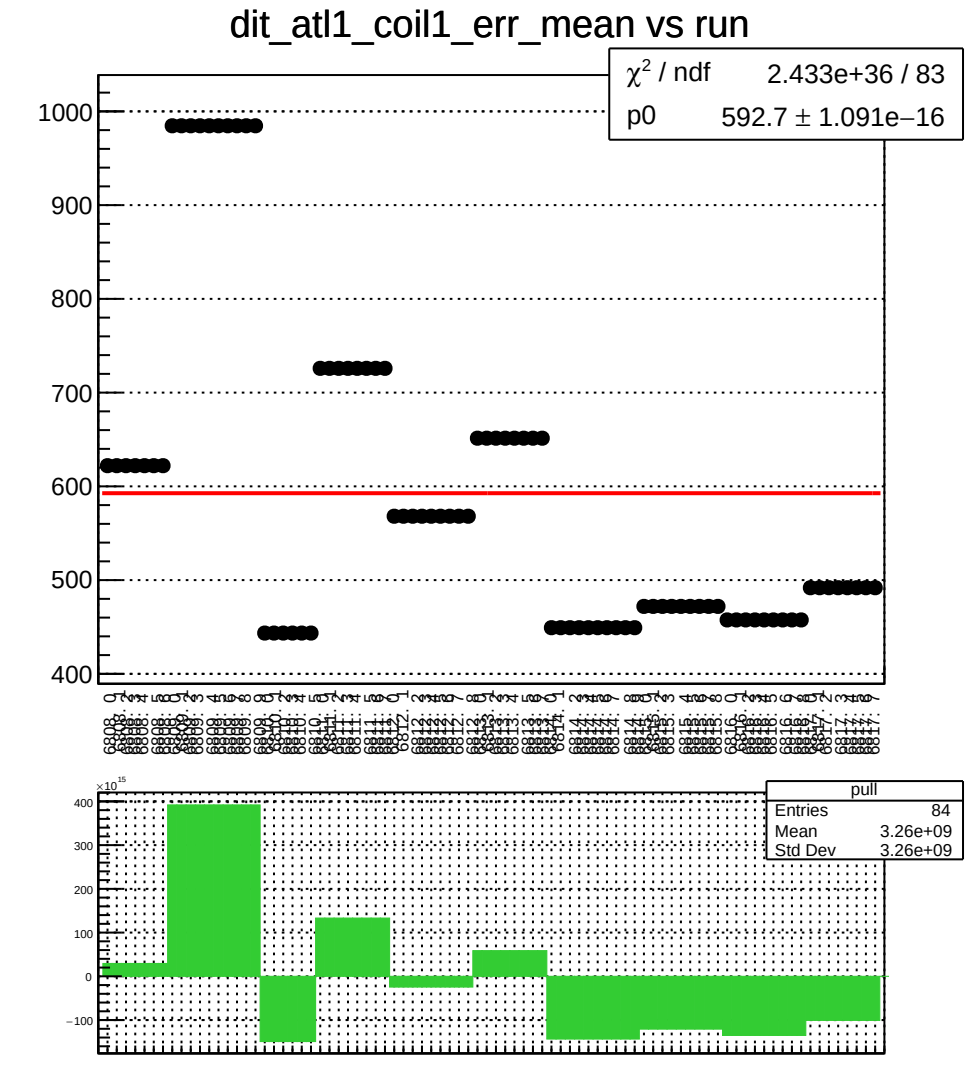

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

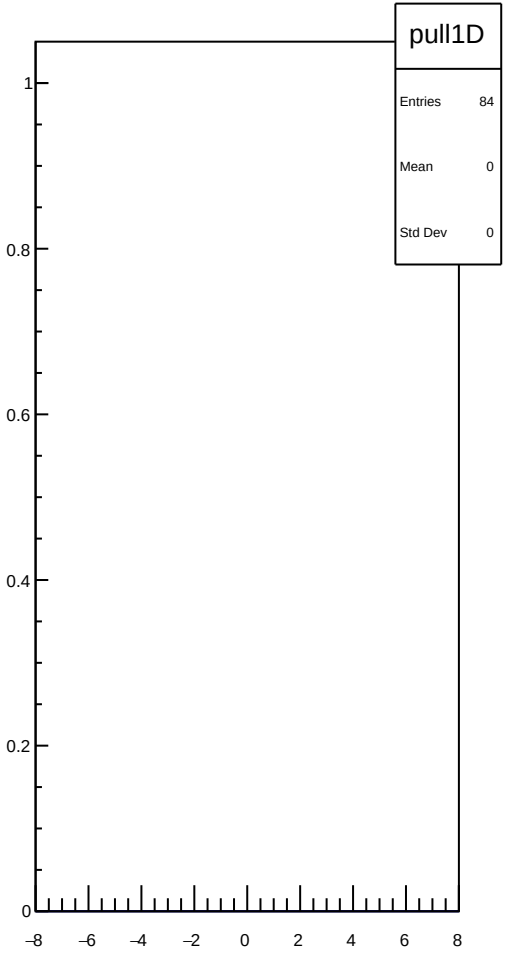

dit_usr_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

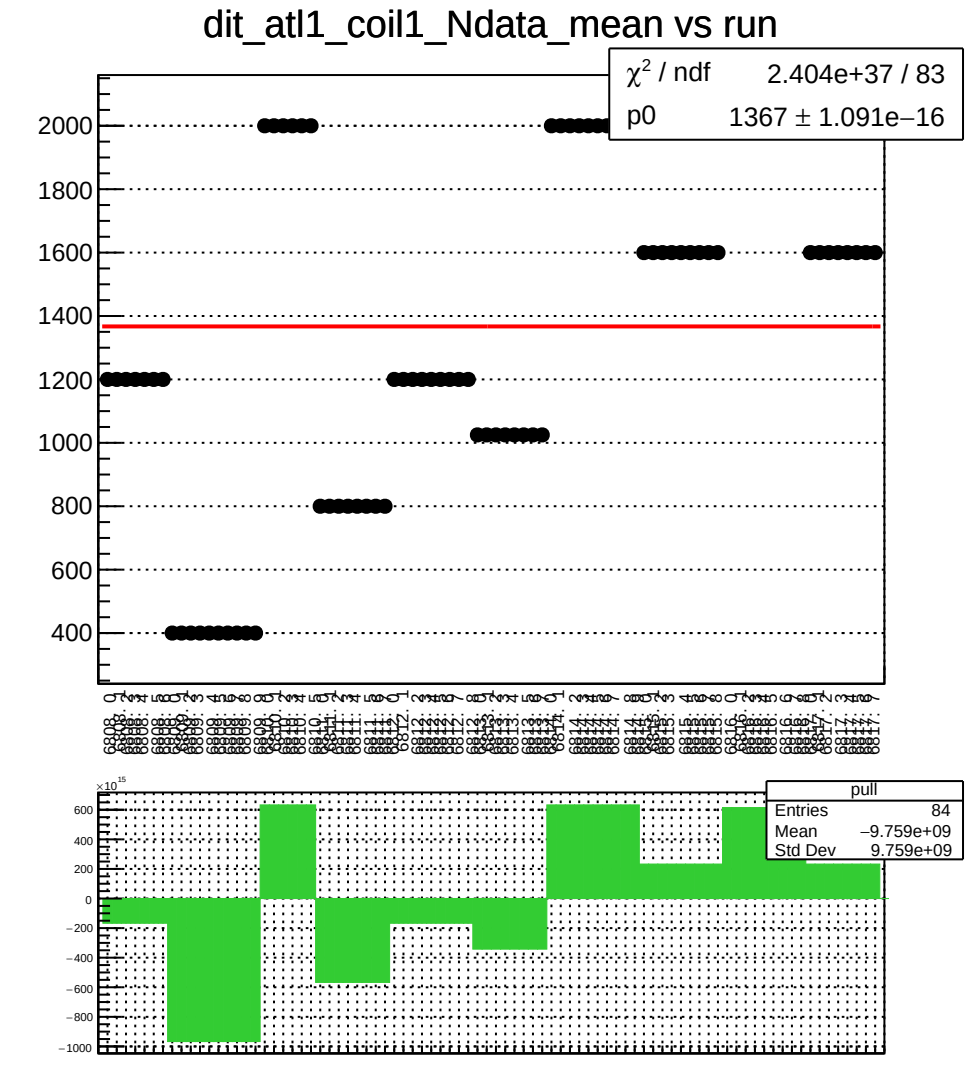

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

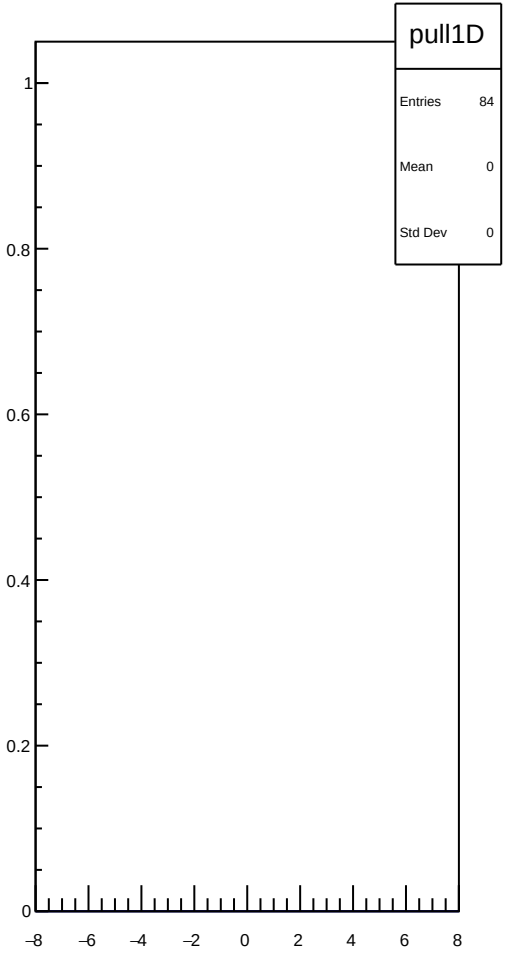

dit_atl1_coil1_mean vs run
χ² / ndf 2.998e+37 / 83
p0 −1.834e+04 ± 1.091e−16
−17000
−17500
−18000
−18500
−19000
pull
Entries 84
Mean 8.225e+08
Std Dev 8.225e+08
×10¹⁵
1200
1000
800
600
400
200
0
−200
−400
−600

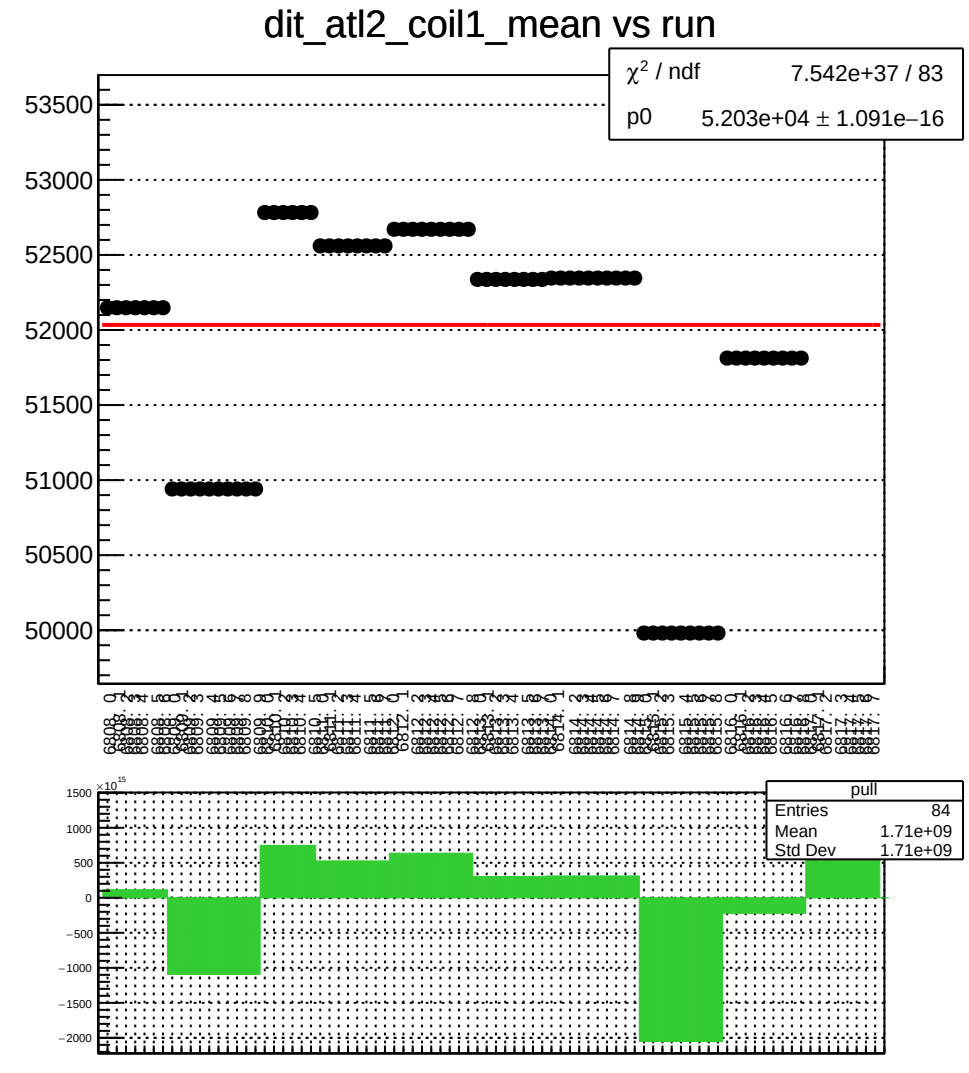

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

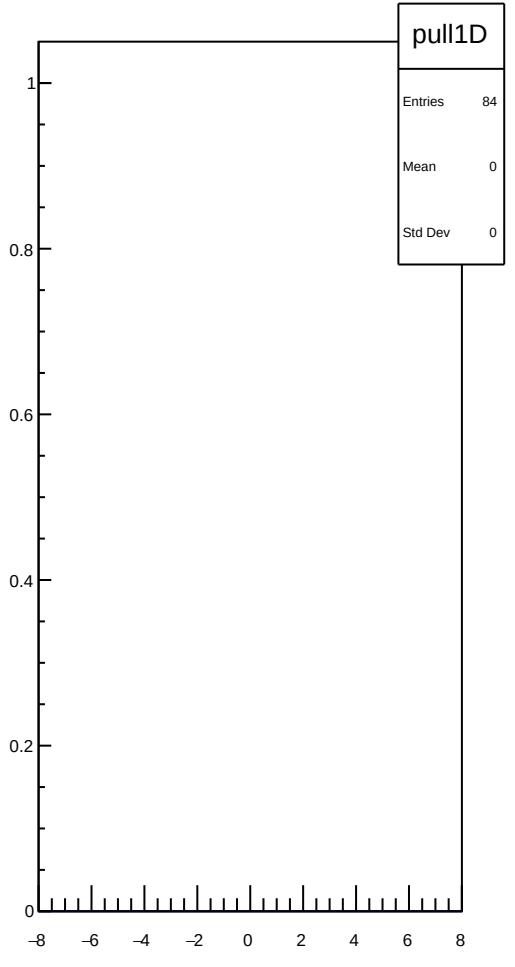

dit_atl1_coil1_err_mean vs run
χ² / ndf 2.433e+36 / 83
p0 592.7 ± 1.091e−16
1000
900
800
700
600
500
400
pull
Entries 84
Mean 3.26e+09
Std Dev 3.26e+09
×10¹⁵
400
300
200
100
0
−100

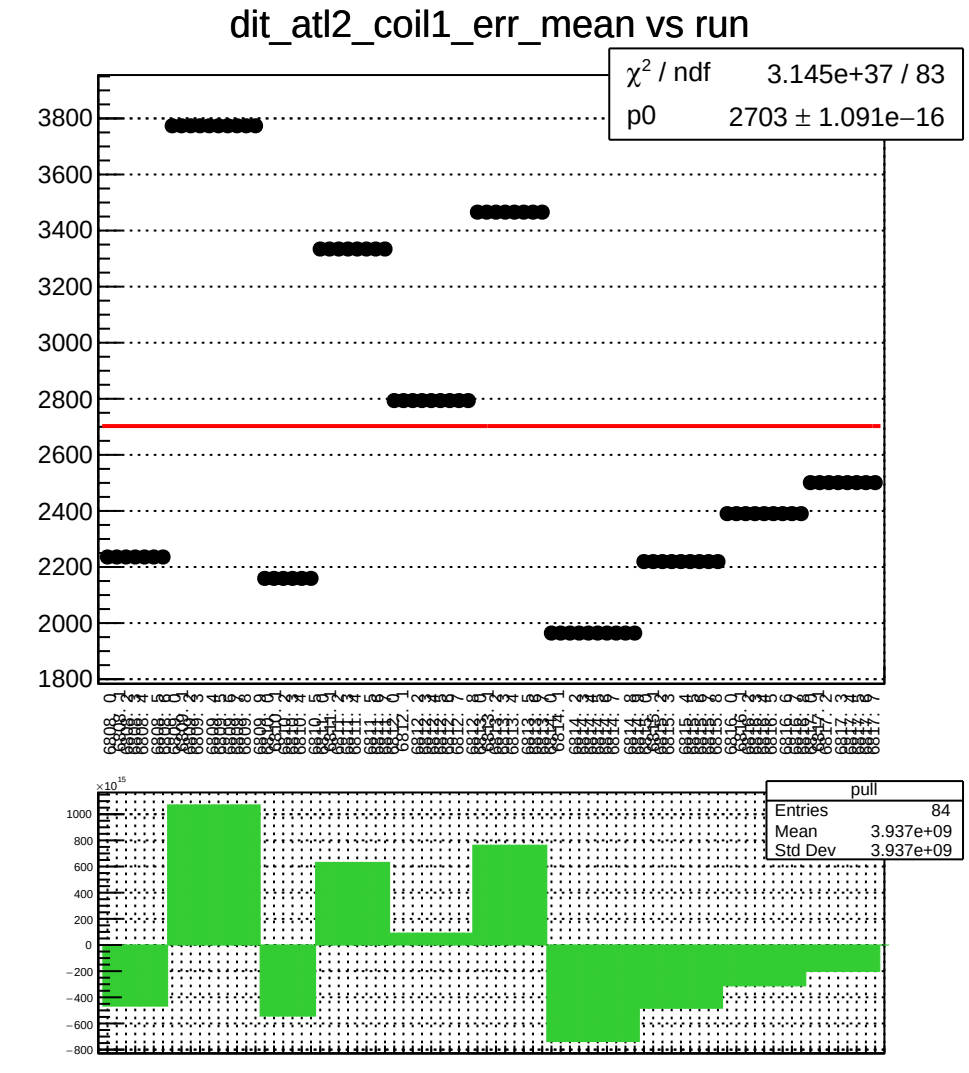

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

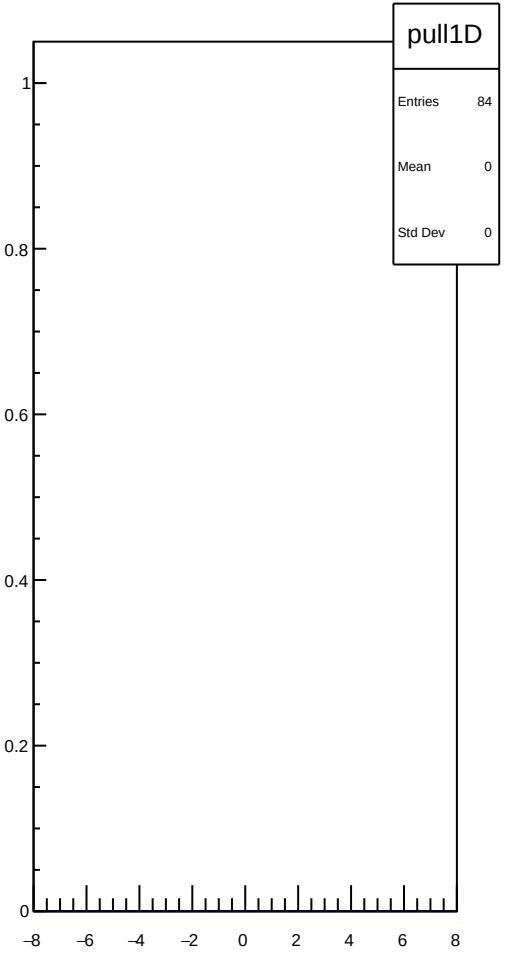

dit_atl1_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09

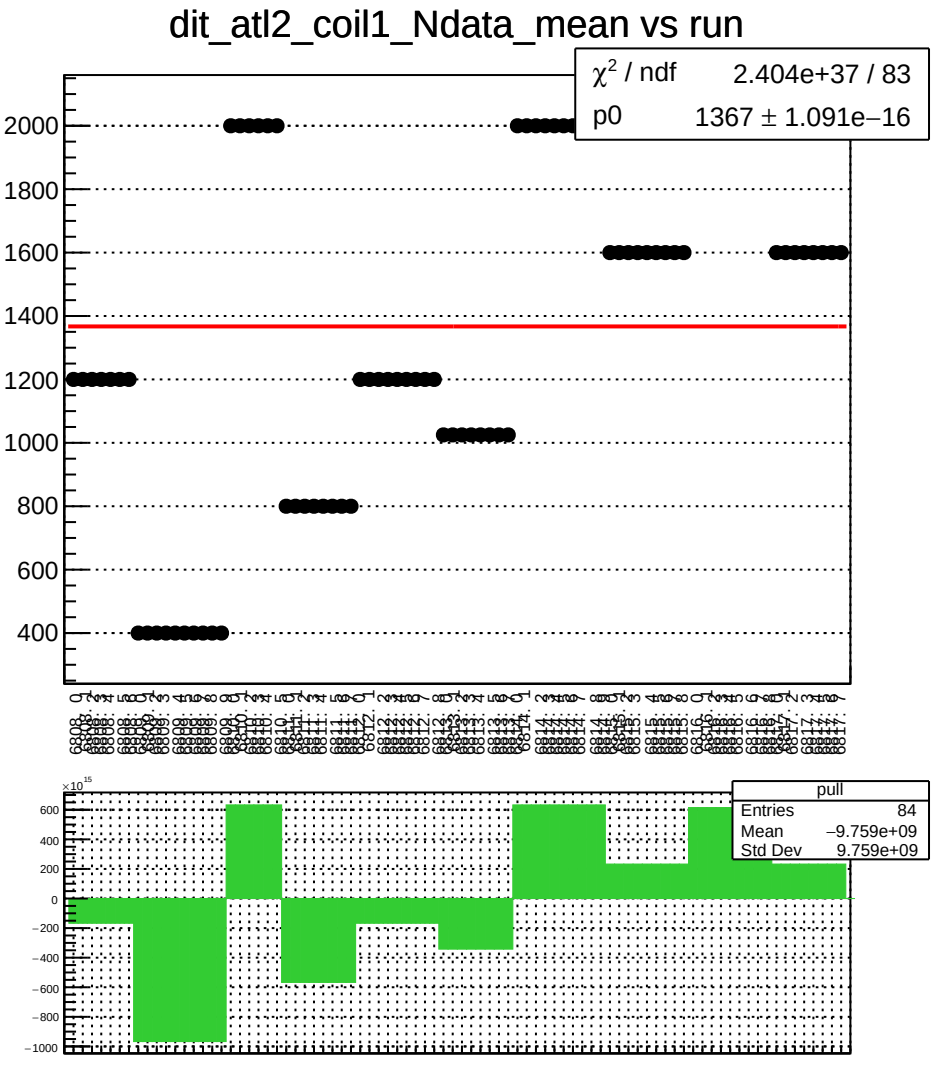

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

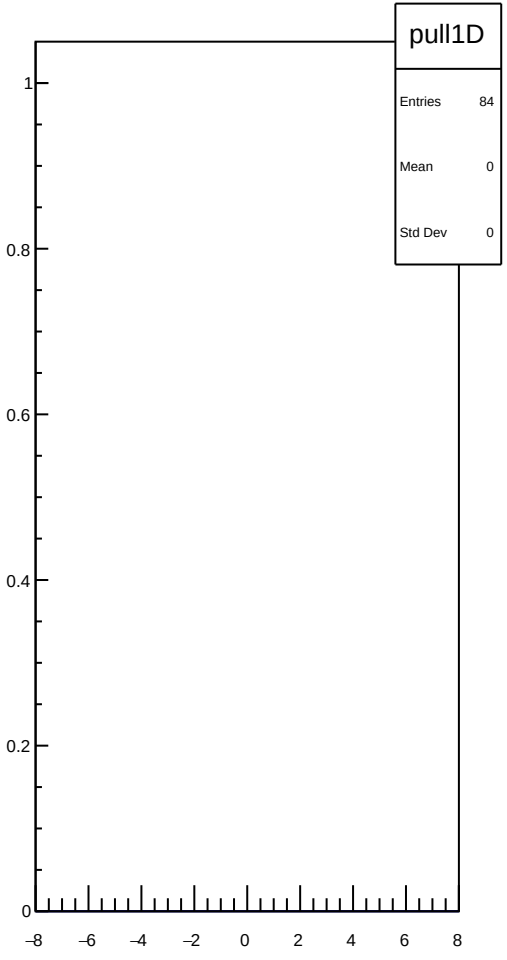

dit_atl2_coil1_mean vs run
χ² / ndf 7.542e+37 / 83
p0 5.203e+04 ± 1.091e−16
53500
53000
52500
52000
51500
51000
50500
50000
×10¹⁵
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 84
Mean 1.71e+09
Std Dev 1.71e+09

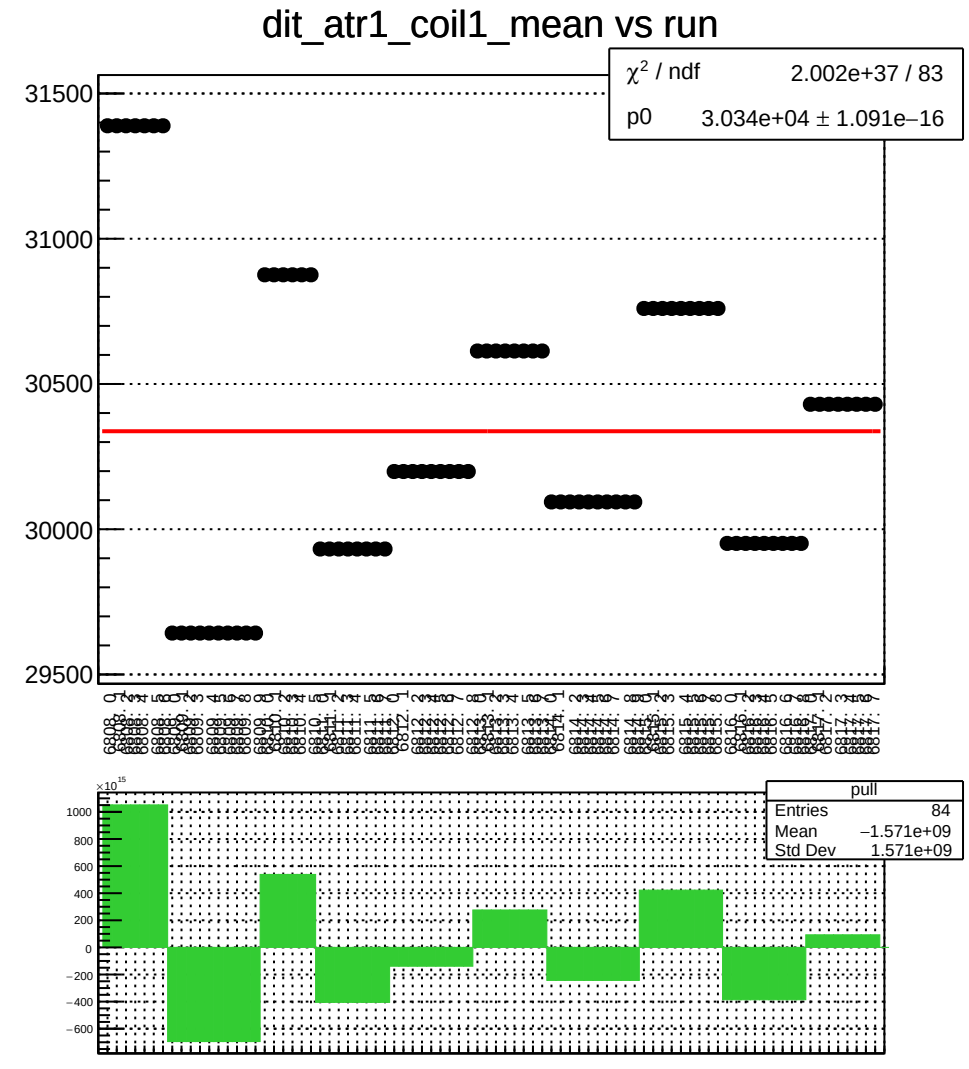

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

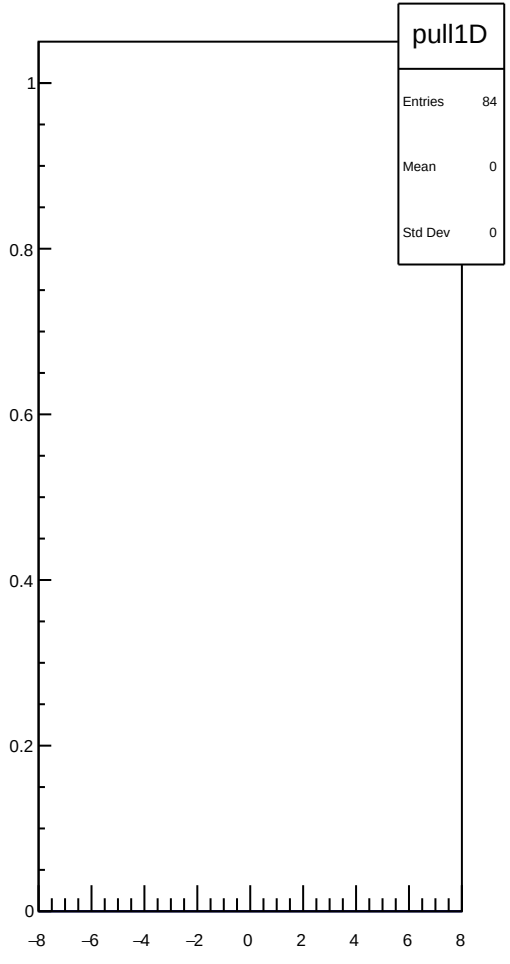

dit_atl2_coil1_err_mean vs run
χ² / ndf 3.145e+37 / 83
p0 2703 ± 1.091e−16
pull
Entries 84
Mean 3.937e+09
Std Dev 3.937e+09

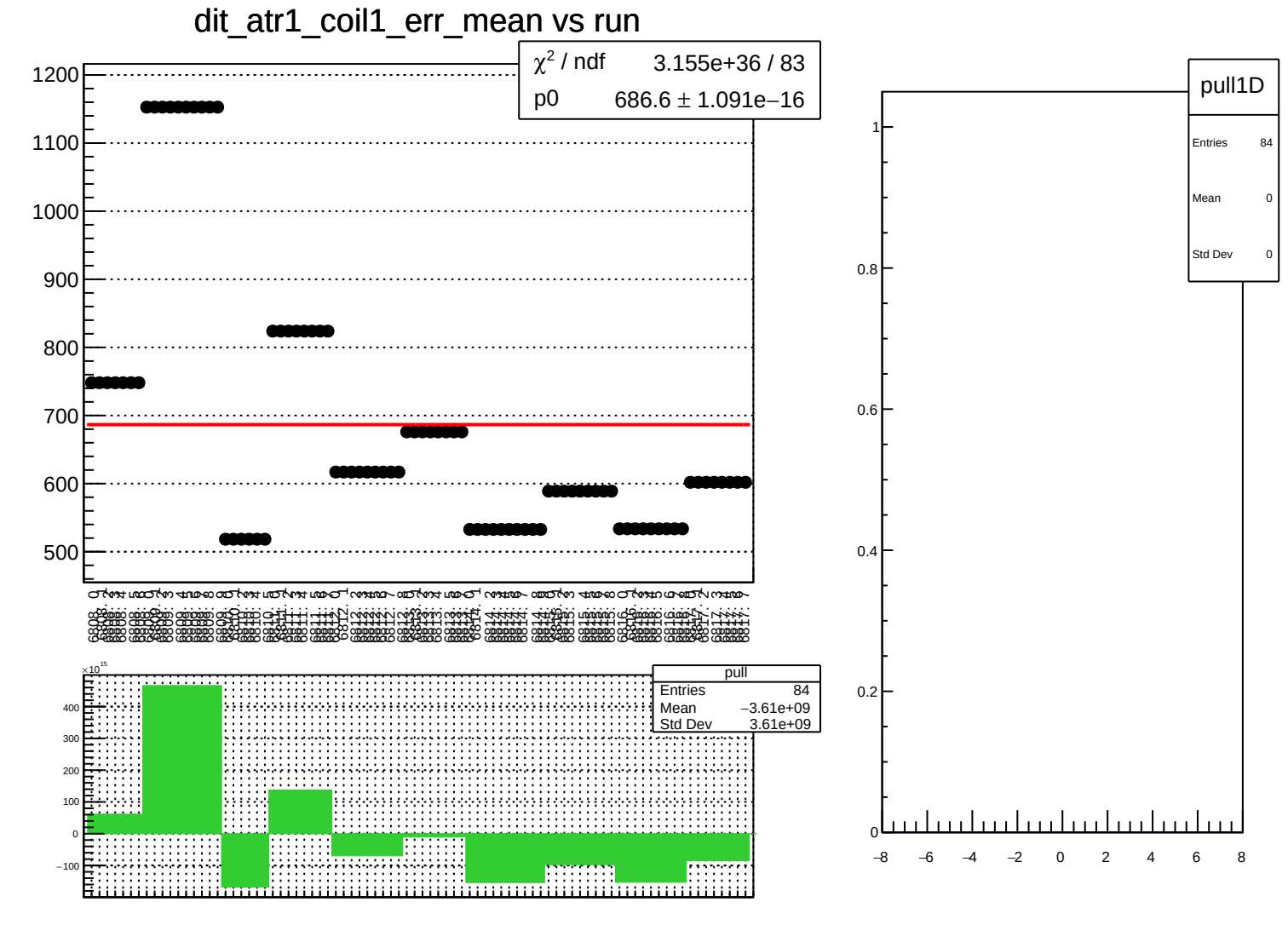

pull1D
Entries 84
Mean 0
Std Dev 0

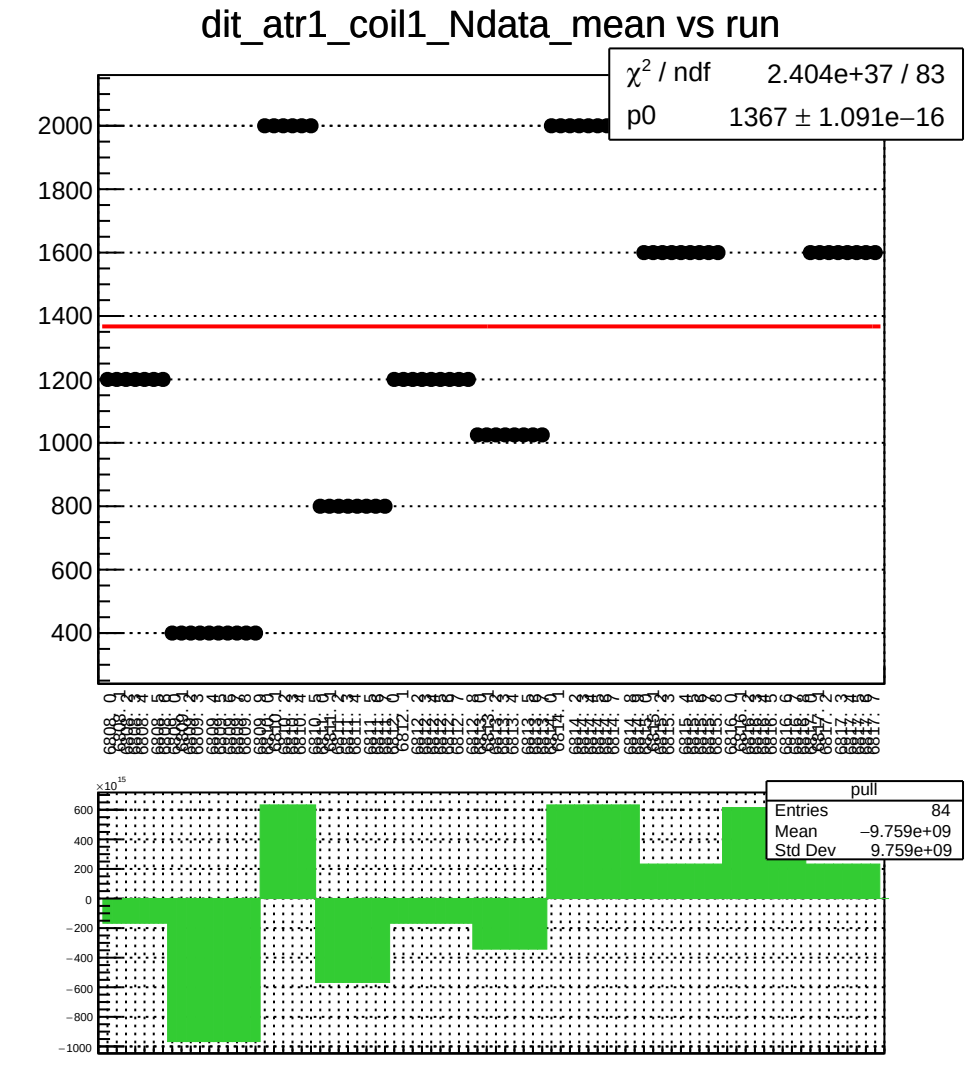

dit_atl2_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09

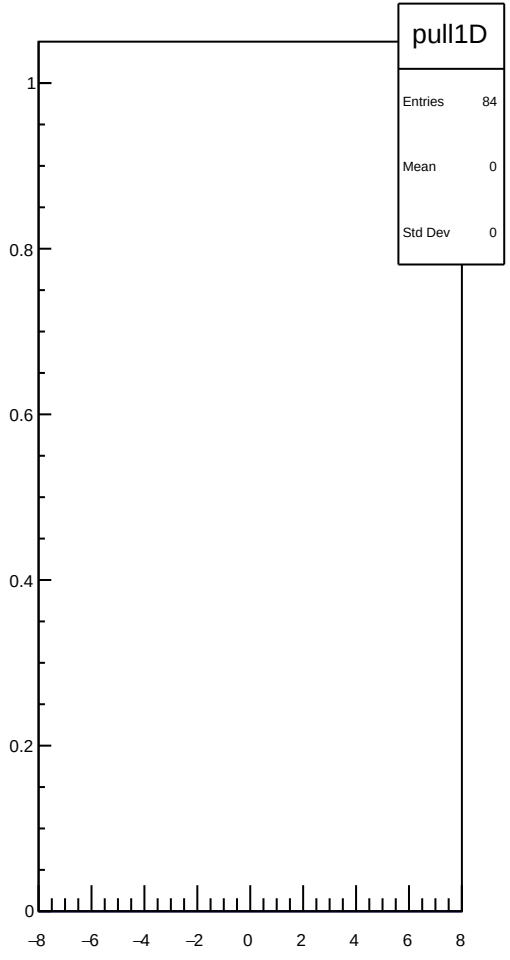

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

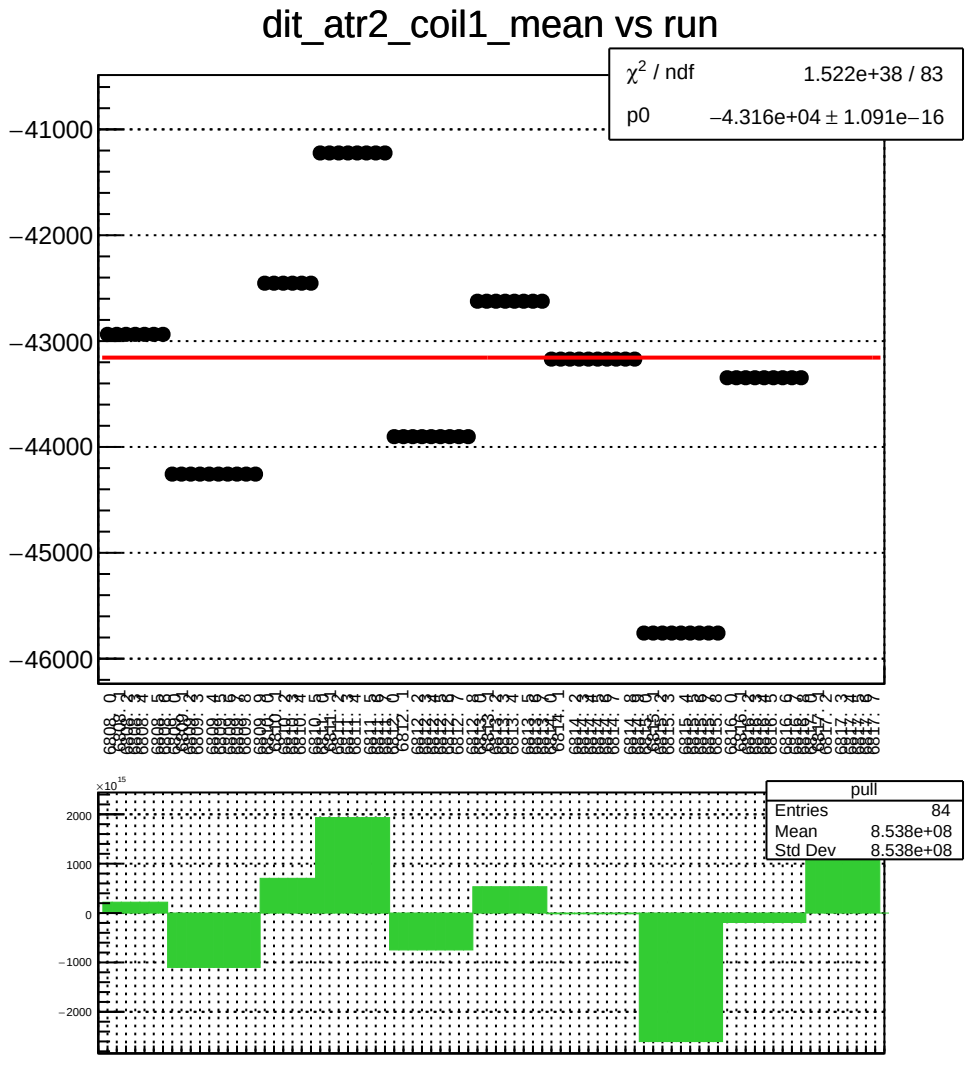

dit_atr1_coil1_mean vs run
χ² / ndf 2.002e+37 / 83
p0 3.034e+04 ± 1.091e−16
31500
31000
30500
30000
29500
pull
Entries 84
Mean −1.571e+09
Std Dev 1.571e+09
×10¹⁵
1000
800
600
400
200
0
−200
−400
−600

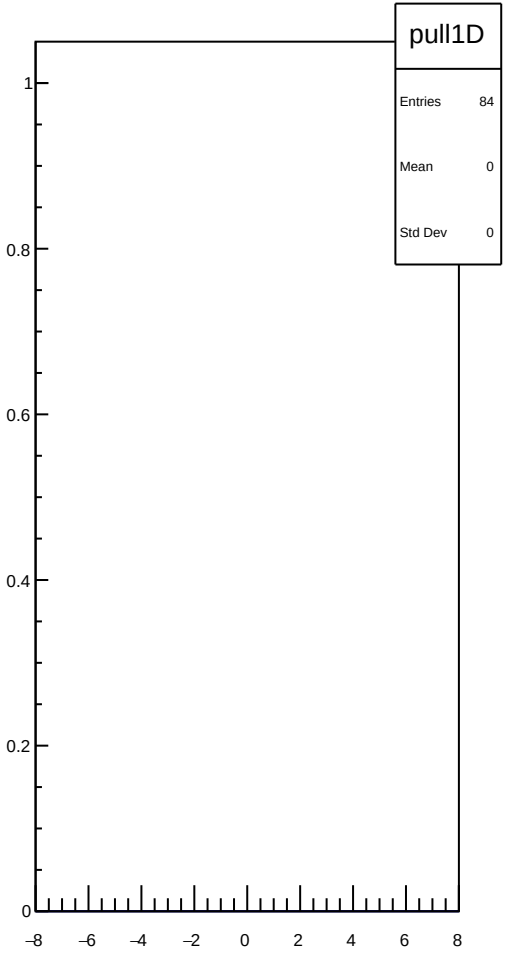

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

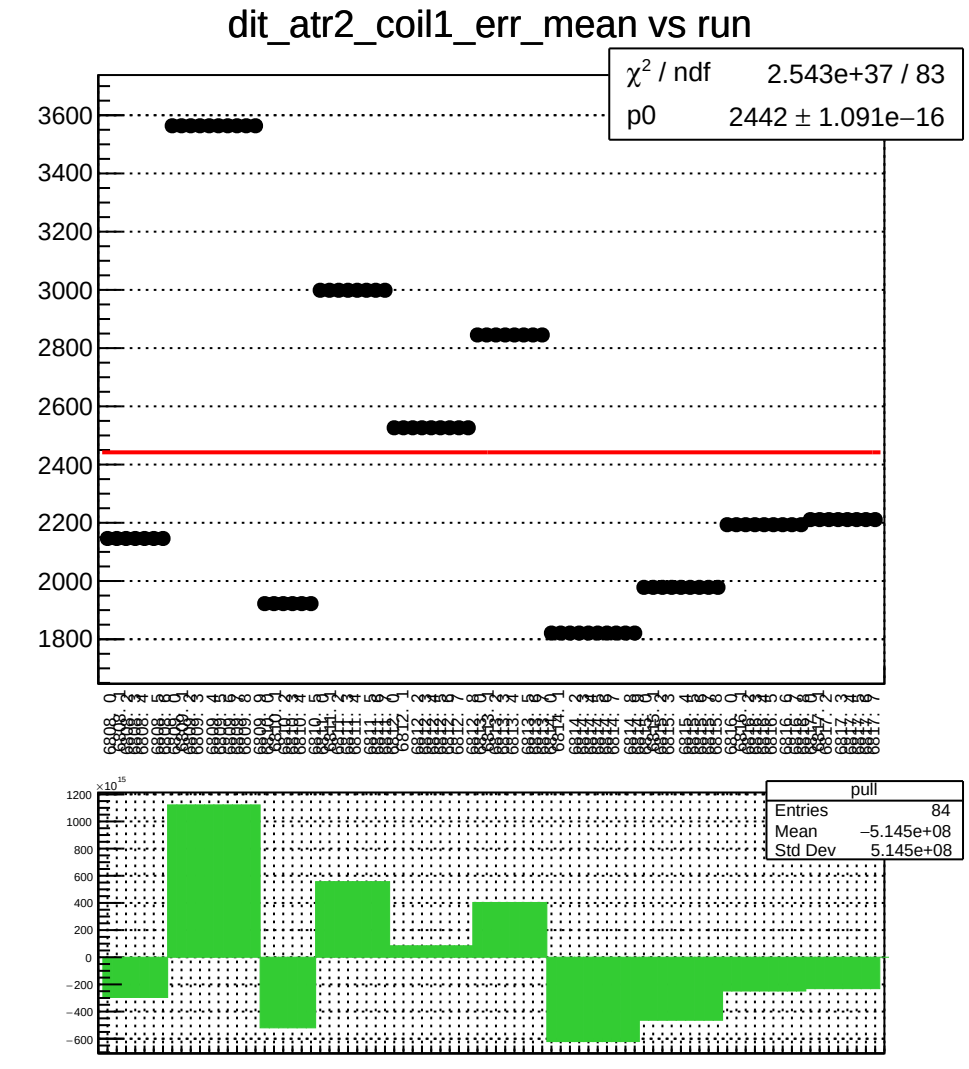

dit_atr1_coil1_err_mean vs run
χ² / ndf 3.155e+36 / 83
p0 686.6 ± 1.091e−16
1200
1100
1000
900
800
700
600
500
pull
Entries 84
Mean −3.61e+09
Std Dev 3.61e+09
×10¹⁵
400
300
200
100
0
−100
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

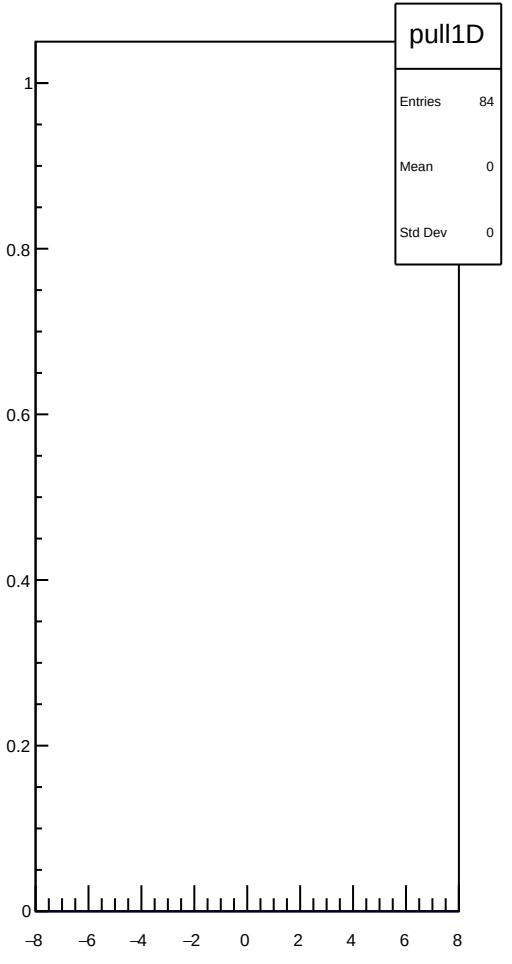

dit_atr1_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

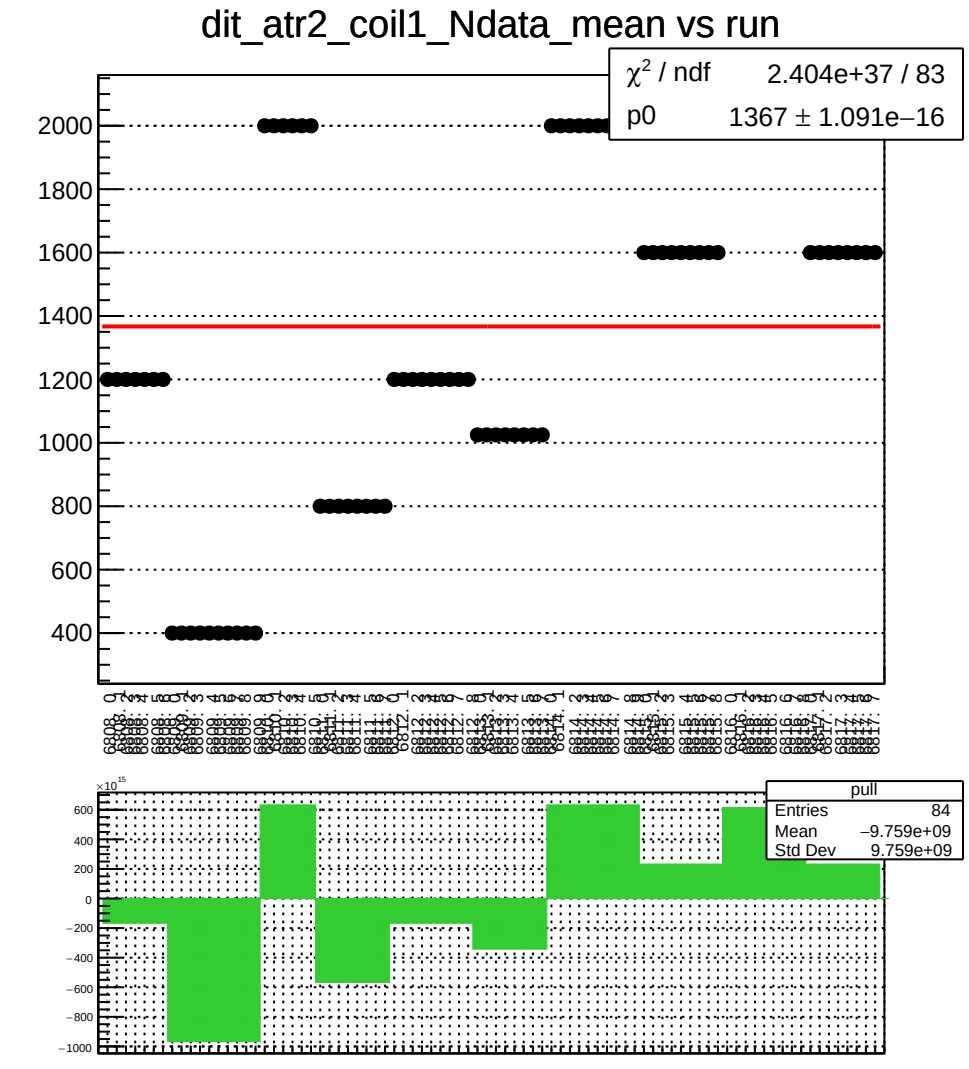

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

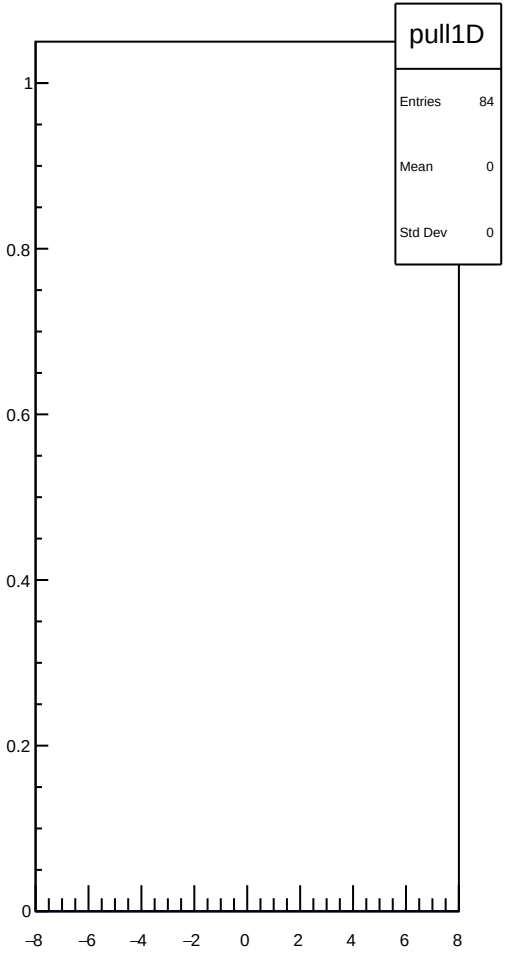

dit_atr2_coil1_mean vs run
χ² / ndf 1.522e+38 / 83
p0 −4.316e+04 ± 1.091e−16
−41000
−42000
−43000
−44000
−45000
−46000
×10¹⁵
2000
1000
0
−1000
−2000
pull
Entries 84
Mean 8.538e+08
Std Dev 8.538e+08

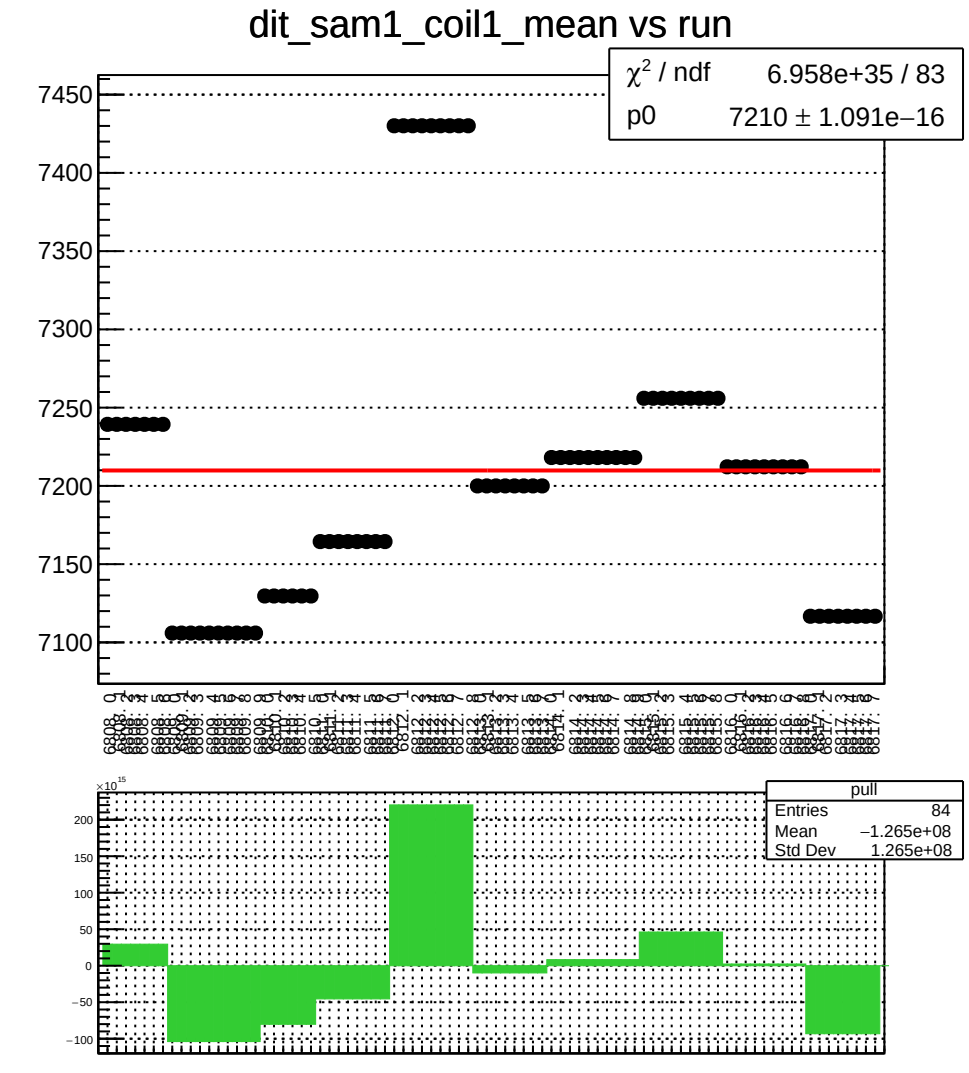

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

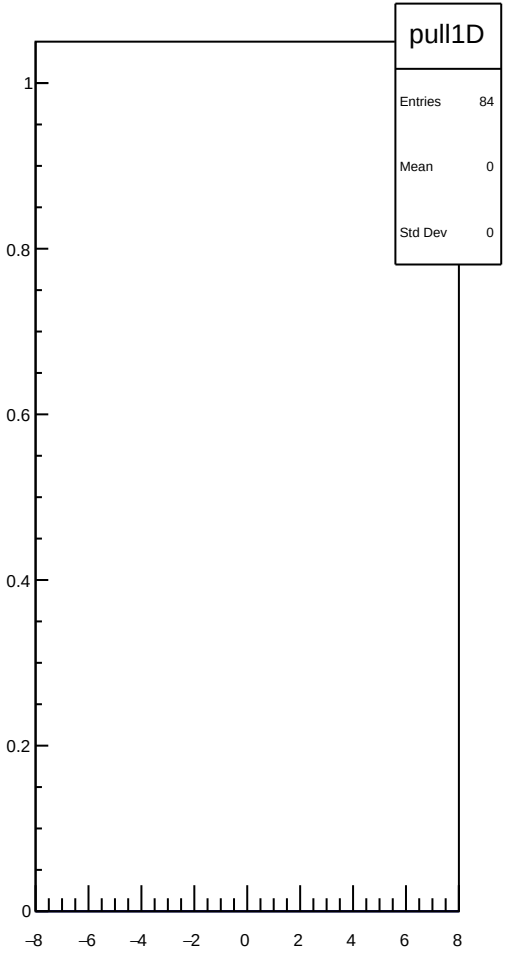

dit_atr2_coil1_err_mean vs run
χ² / ndf 2.543e+37 / 83
p0 2442 ± 1.091e−16
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
×10¹⁵
1200
1000
800
600
400
200
0
−200
−400
−600
pull
Entries 84
Mean −5.145e+08
Std Dev 5.145e+08

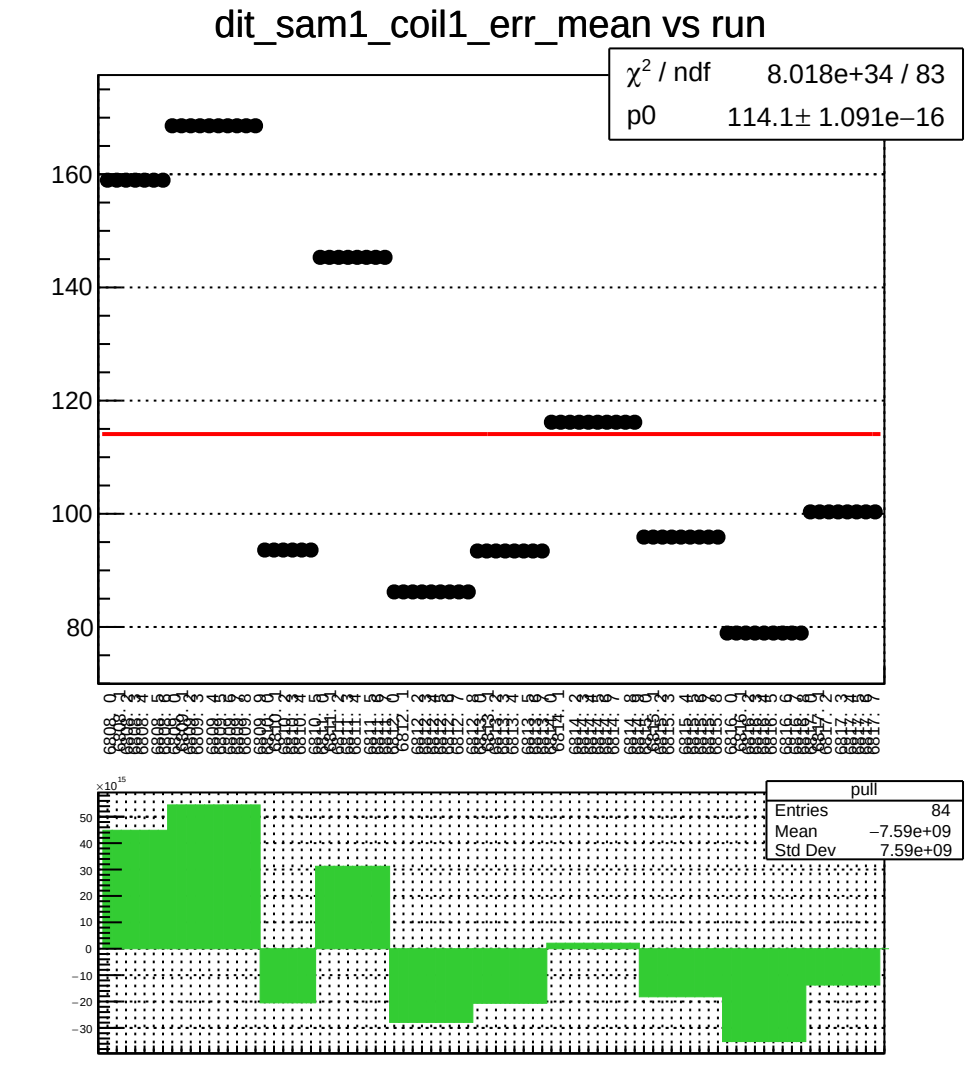

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

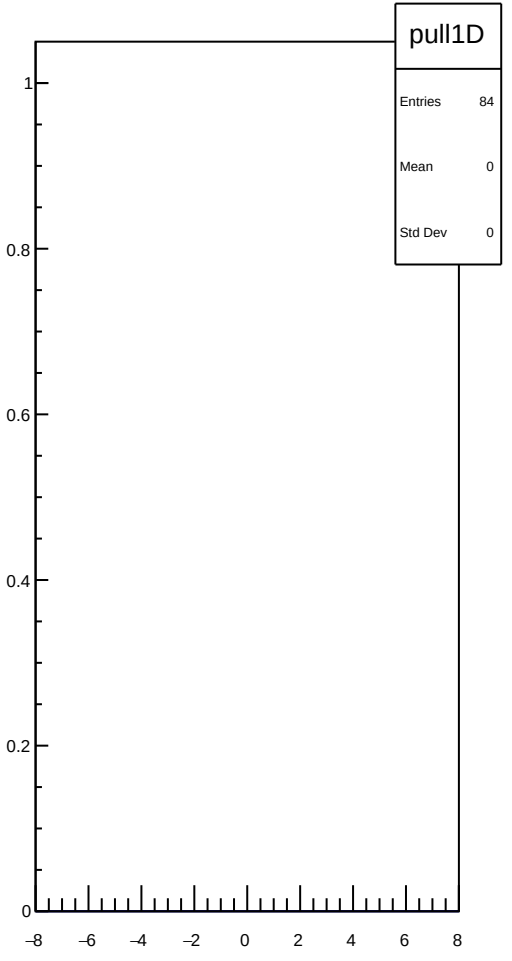

dit_atr2_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

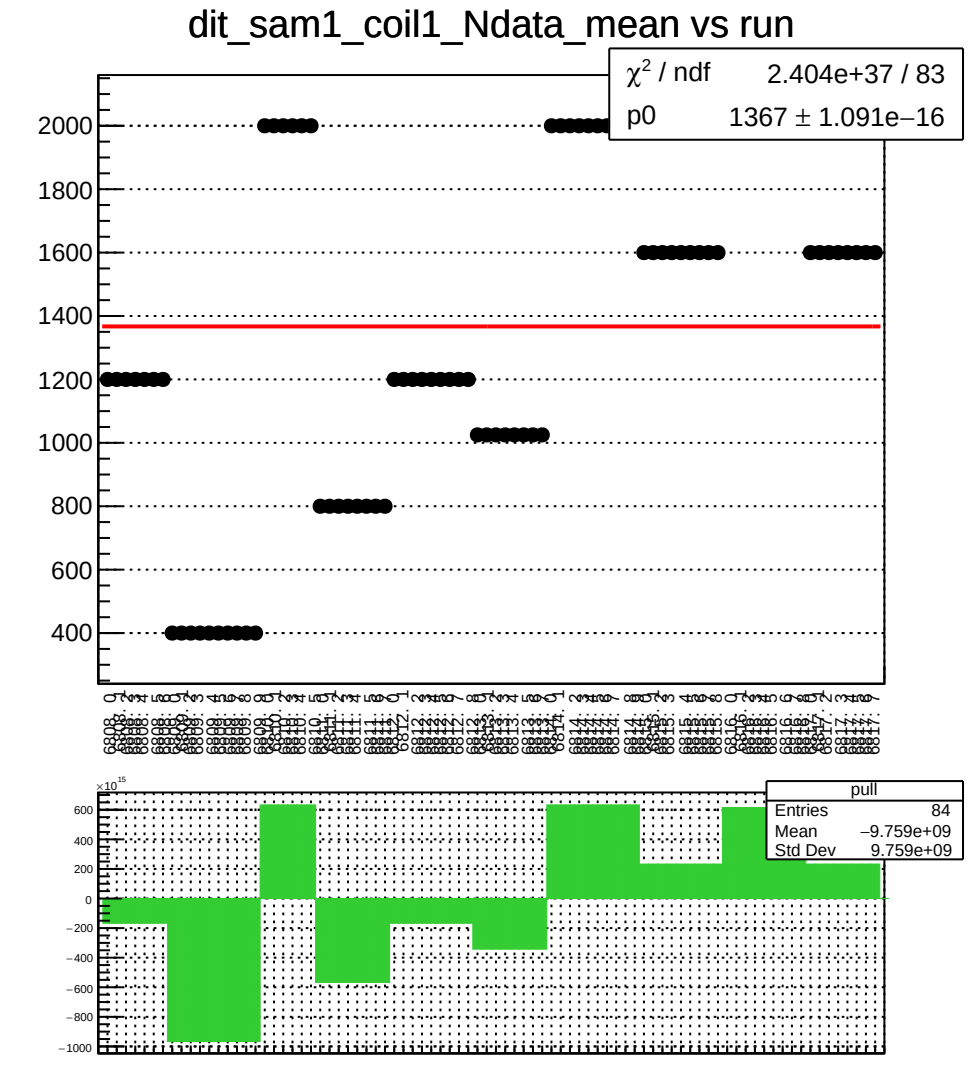

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

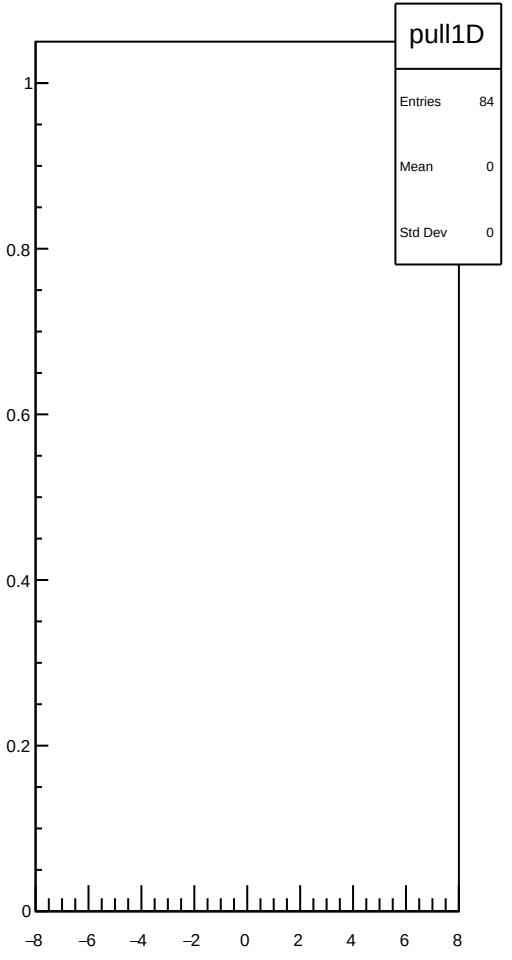

dit_sam1_coil1_mean vs run
χ² / ndf 6.958e+35 / 83
p0 7210 ± 1.091e−16
7450
7400
7350
7300
7250
7200
7150
7100
×10¹⁵
200
150
100
50
0
−50
−100
pull
Entries 84
Mean −1.265e+08
Std Dev 1.265e+08

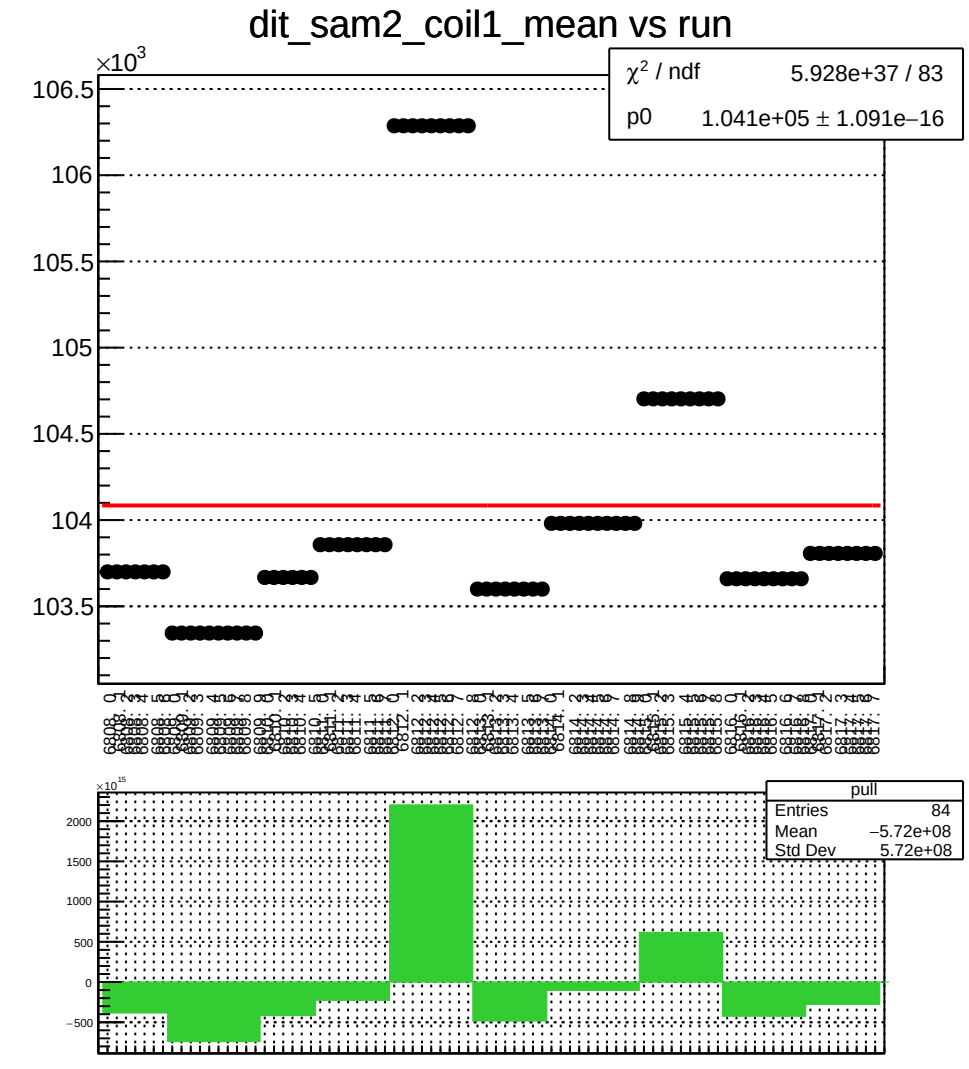

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

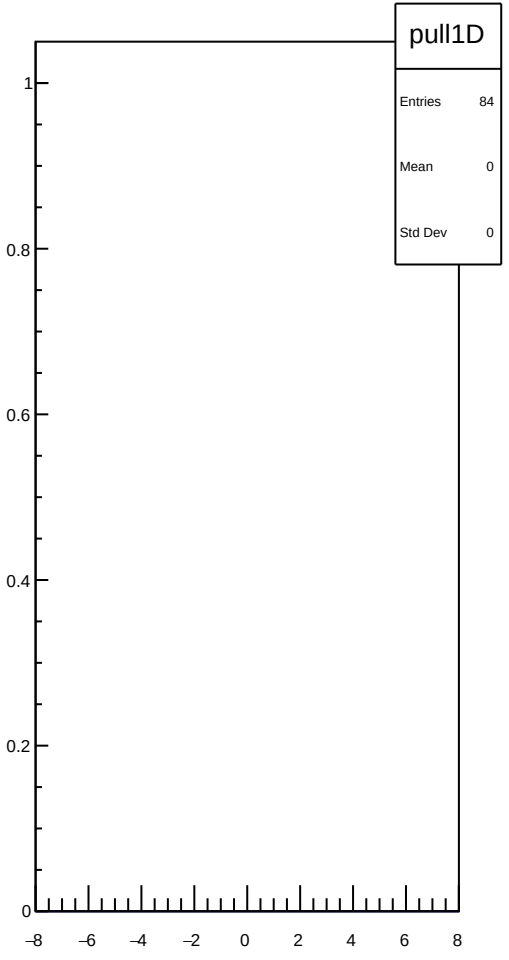

dit_sam1_coil1_err_mean vs run
χ² / ndf 8.018e+34 / 83
p0 114.1± 1.091e−16
160
140
120
100
80
pull
Entries 84
Mean −7.59e+09
Std Dev 7.59e+09
×10¹⁵
50
40
30
20
10
0
−10
−20
−30

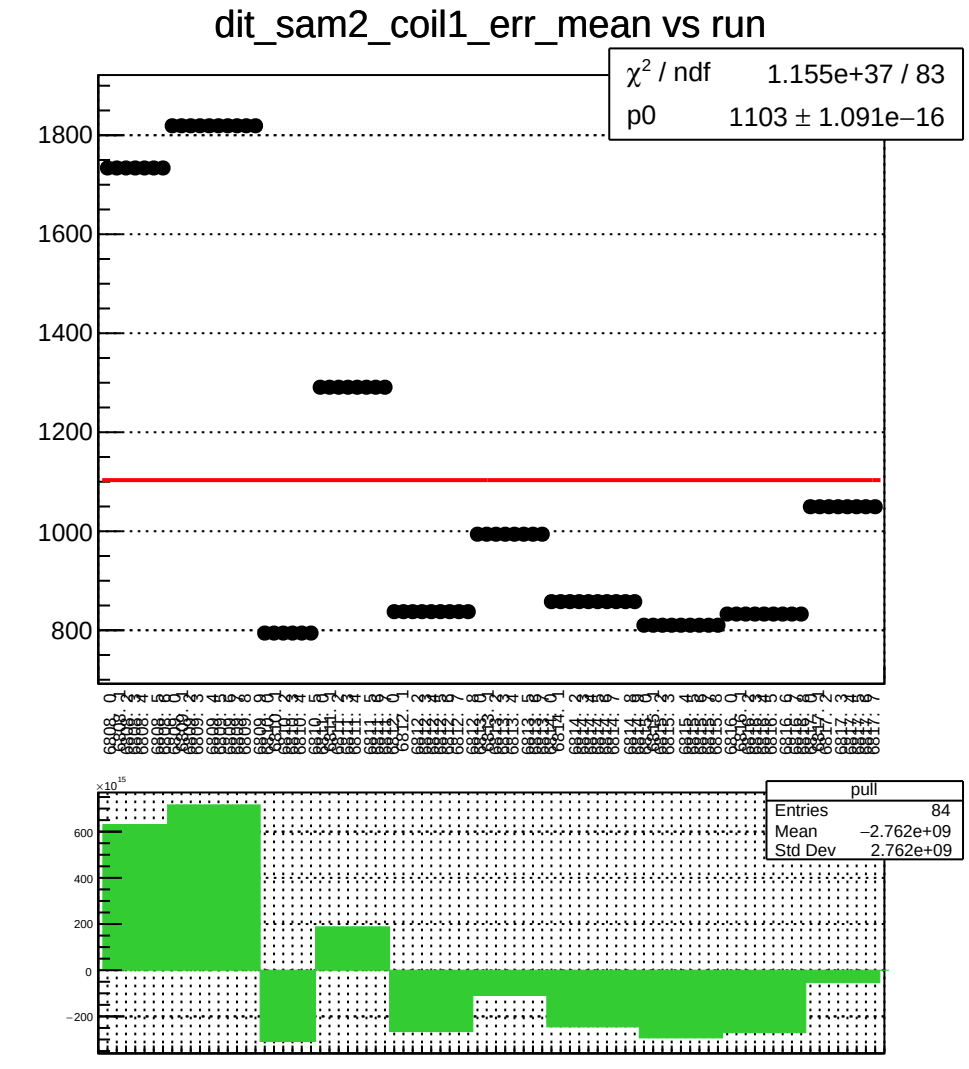

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

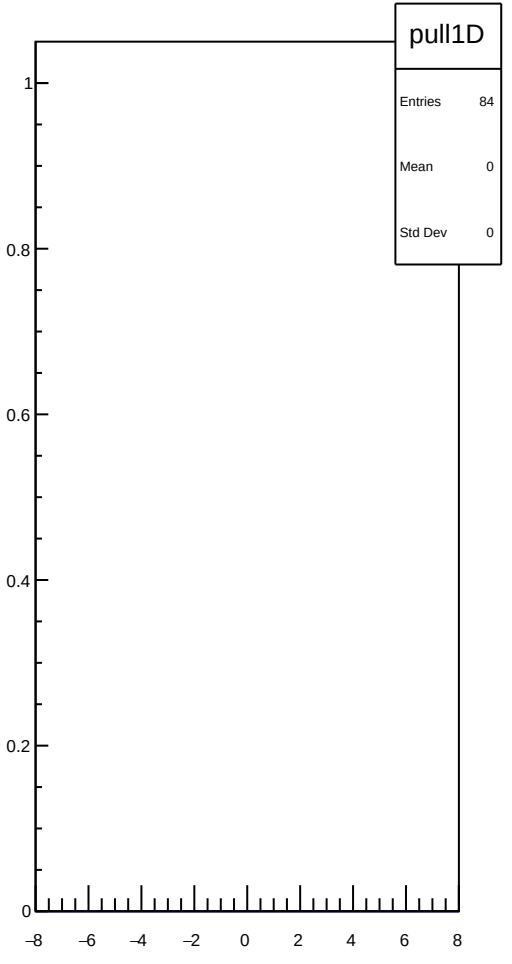

dit_sam1_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

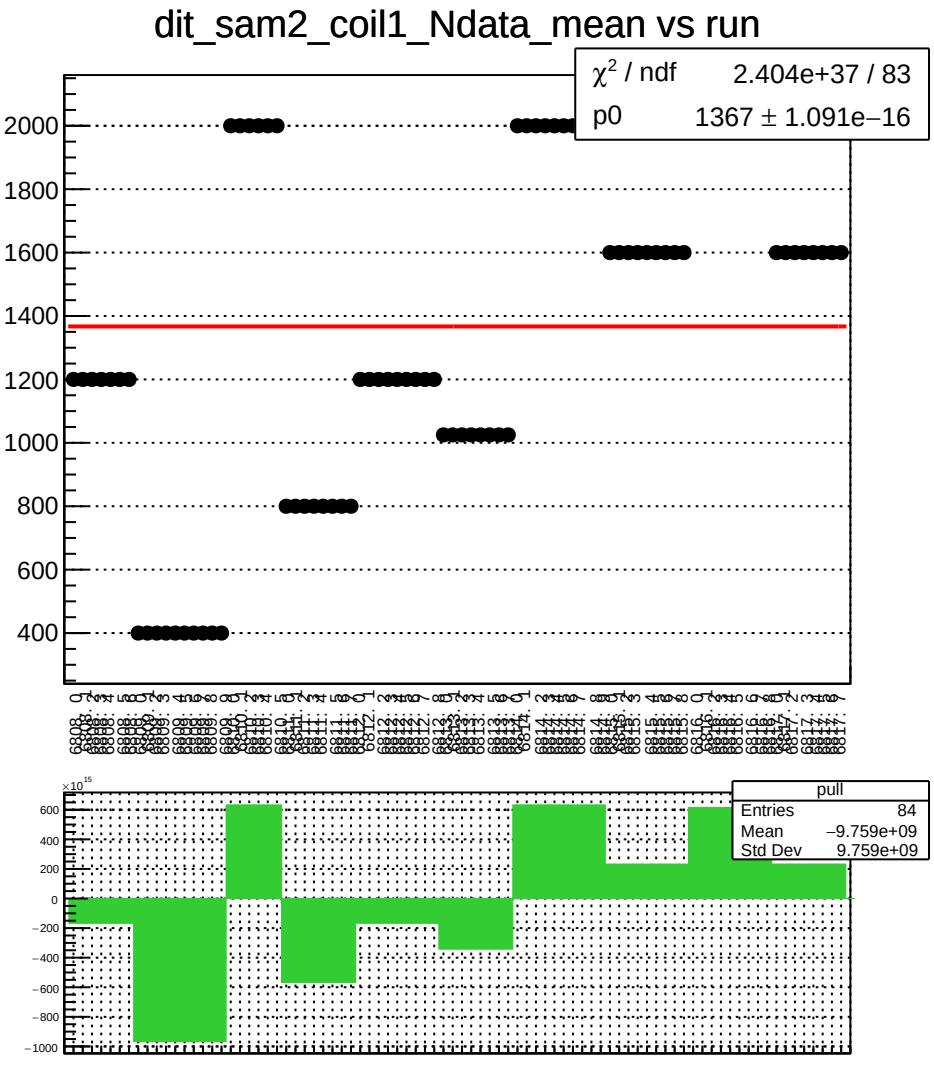

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

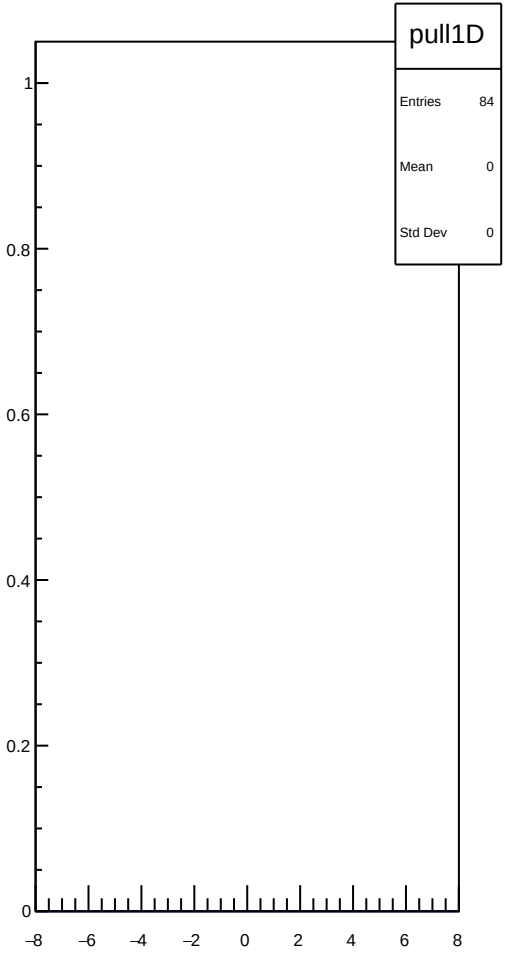

dit_sam2_coil1_mean vs run
χ² / ndf 5.928e+37 / 83
p0 1.041e+05 ± 1.091e−16
×10³
106.5
106
105.5
105
104.5
104
103.5
pull
Entries 84
Mean −5.72e+08
Std Dev 5.72e+08
2000
1500
1000
500
0
−500

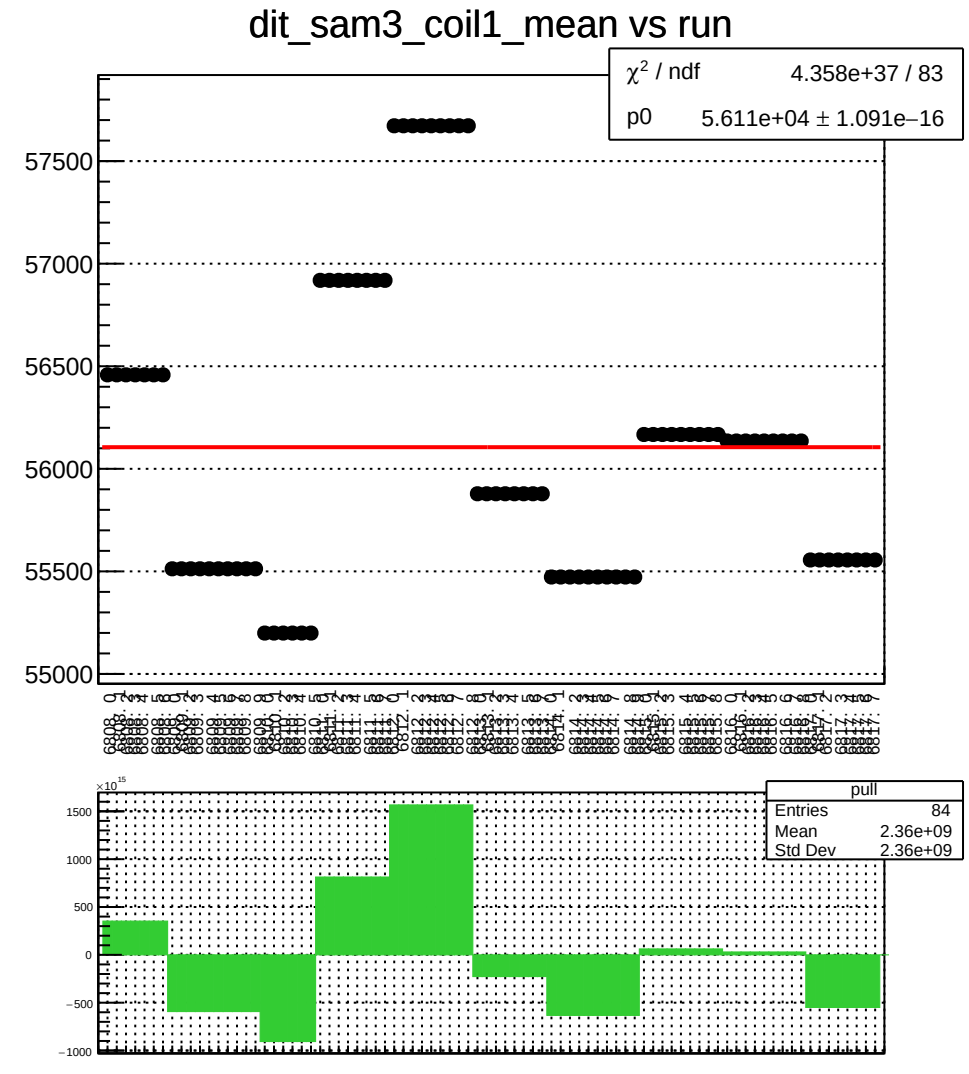

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

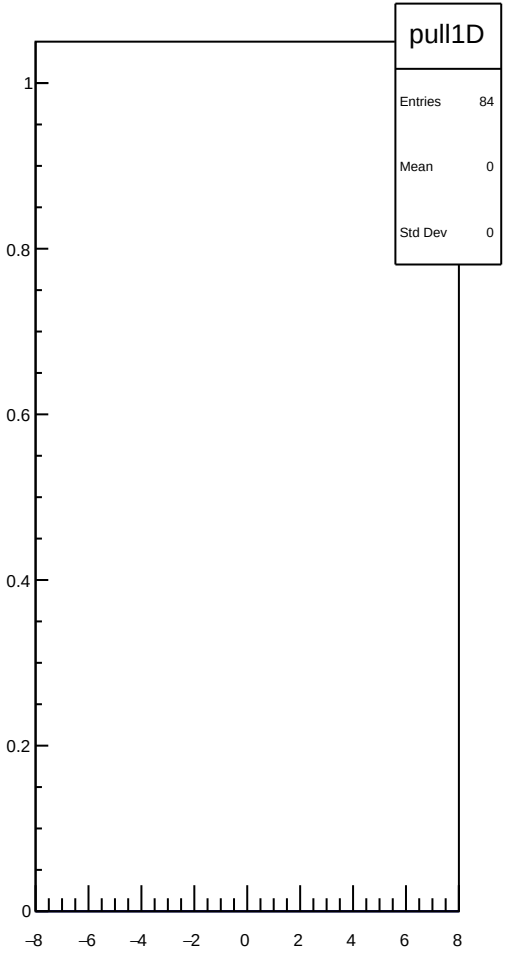

dit_sam2_coil1_err_mean vs run
χ² / ndf 1.155e+37 / 83
p0 1103 ± 1.091e−16
1800
1600
1400
1200
1000
800
pull
Entries 84
Mean −2.762e+09
Std Dev 2.762e+09
×10¹⁵
600
400
200
0
−200

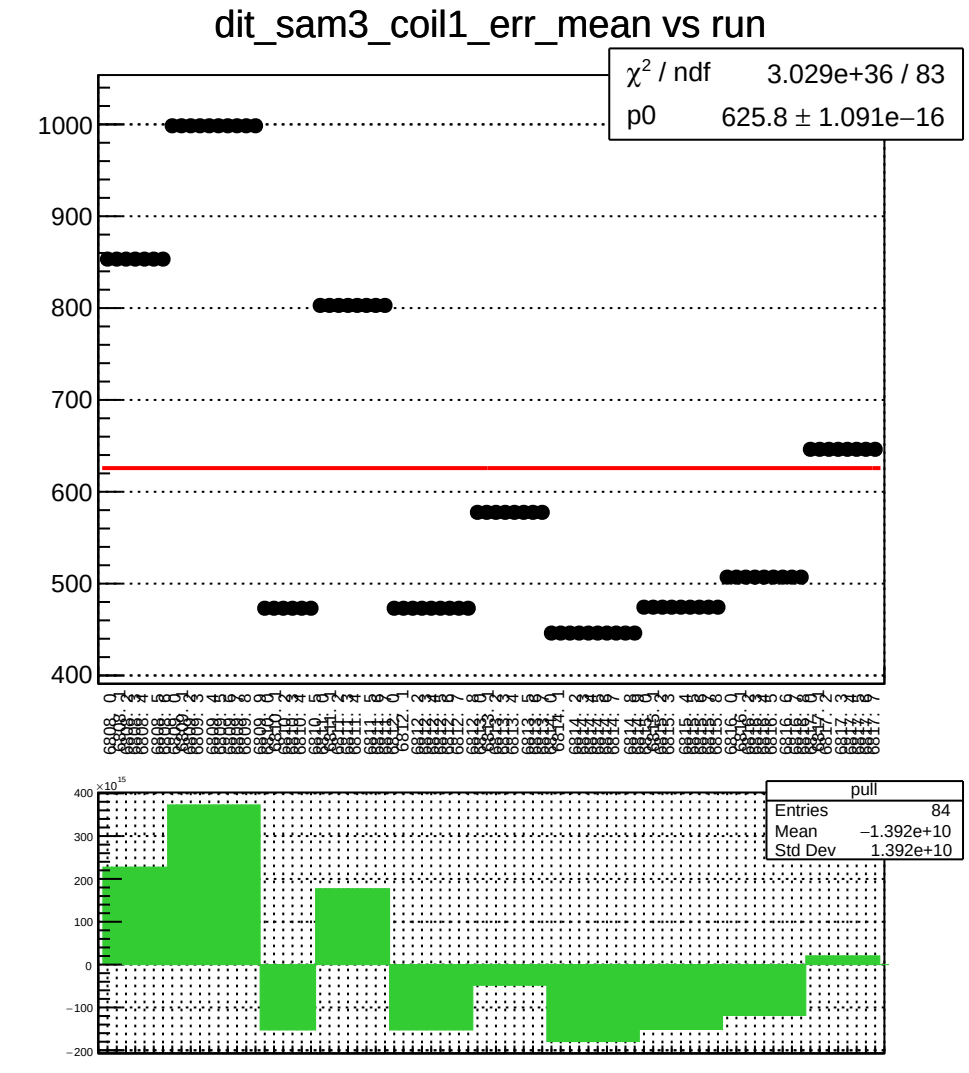

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

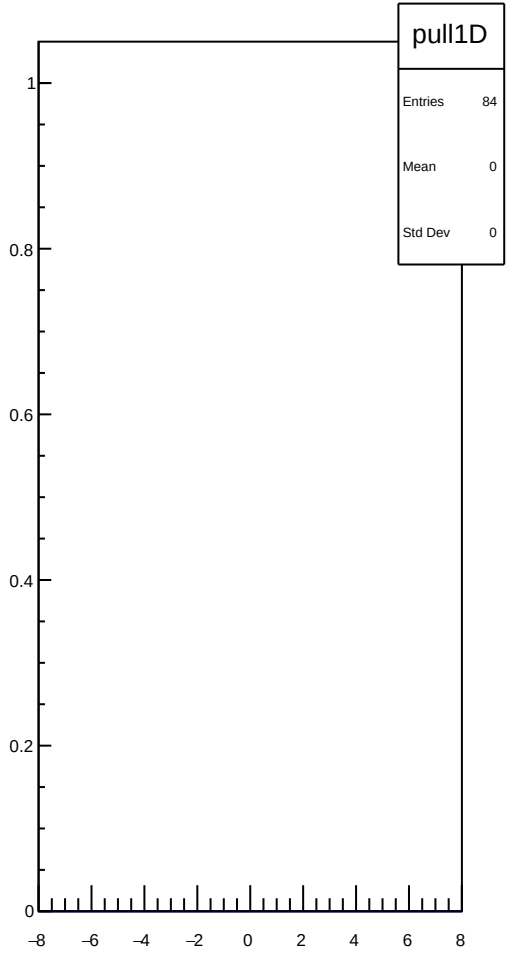

dit_sam2_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

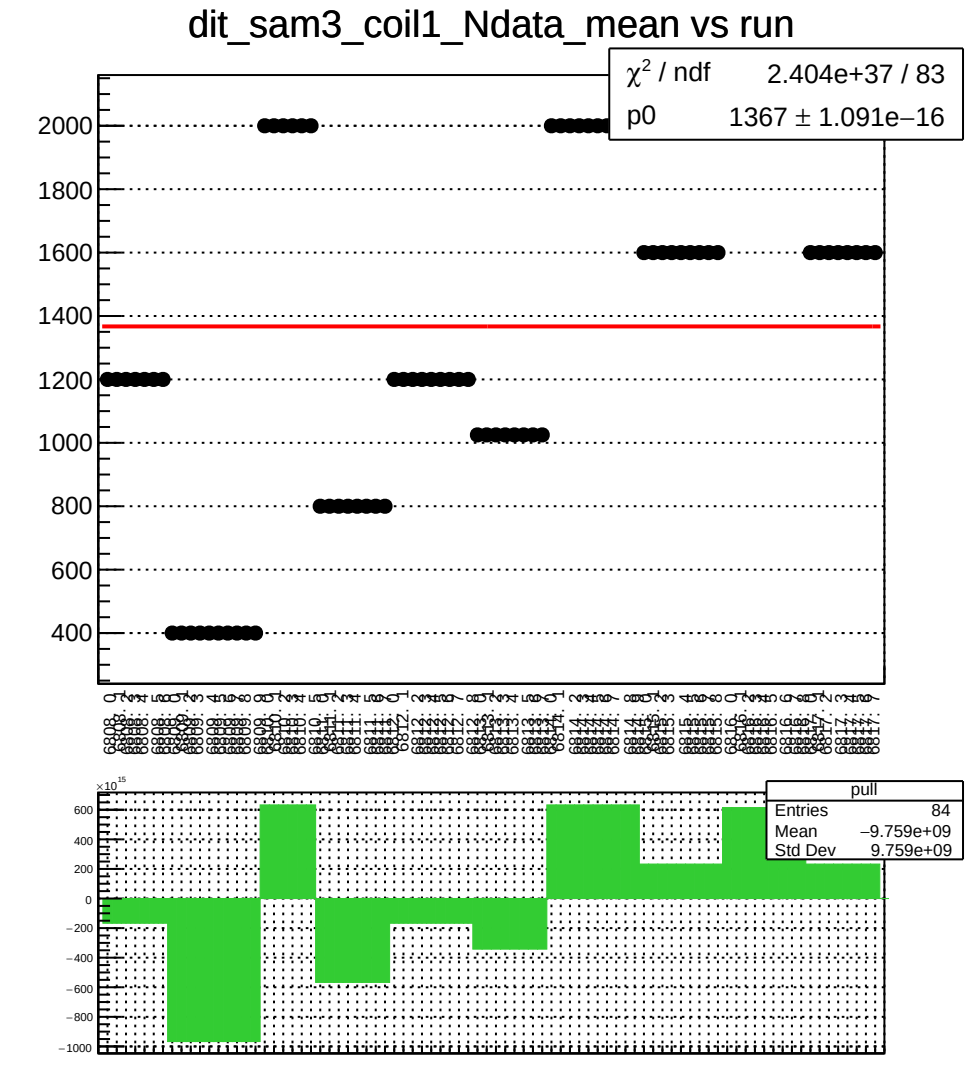

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

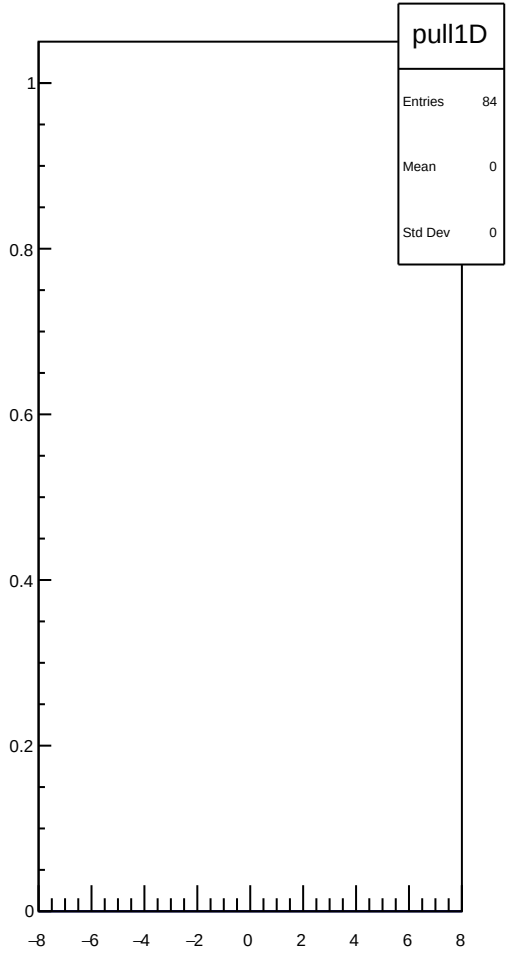

dit_sam3_coil1_mean vs run
χ² / ndf 4.358e+37 / 83
p0 5.611e+04 ± 1.091e−16
57500
57000
56500
56000
55500
55000
pull
Entries 84
Mean 2.36e+09
Std Dev 2.36e+09
×10¹⁵
1500
1000
500
0
−500
−1000

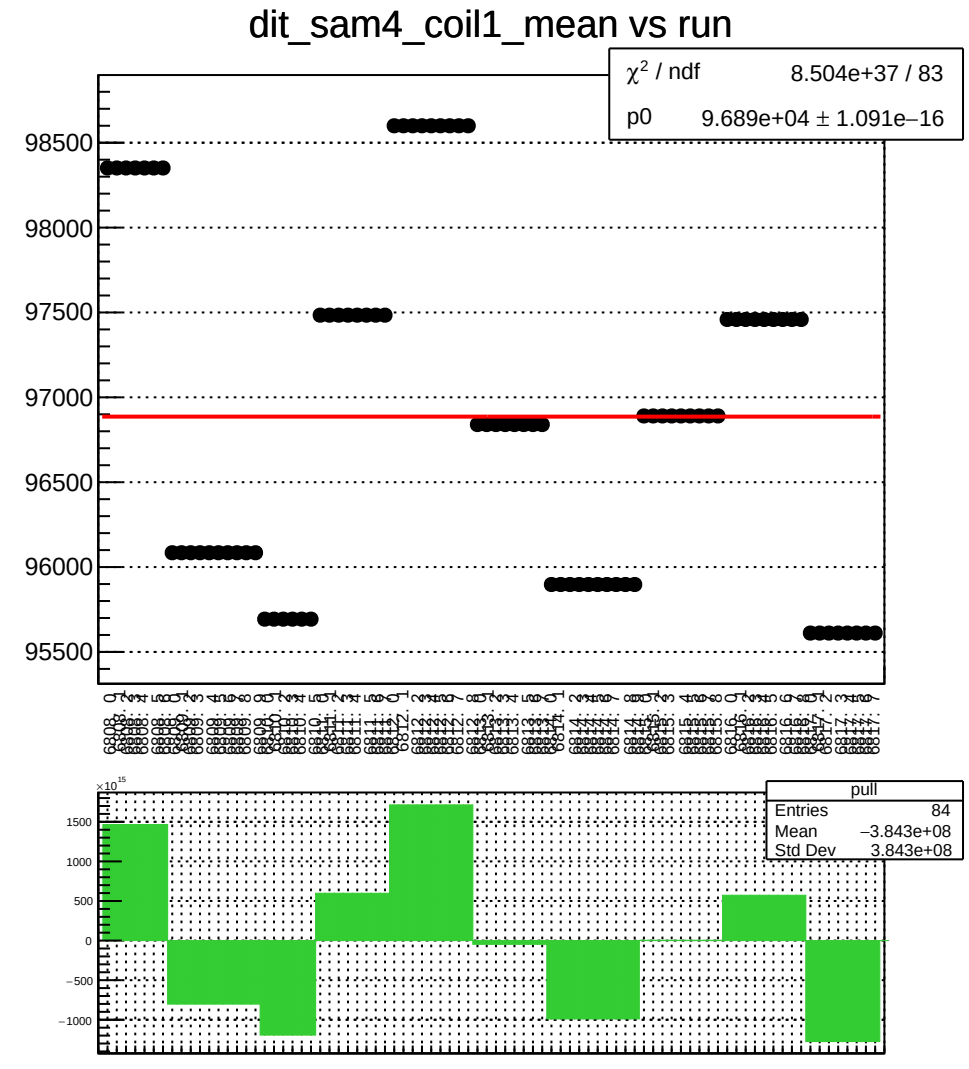

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

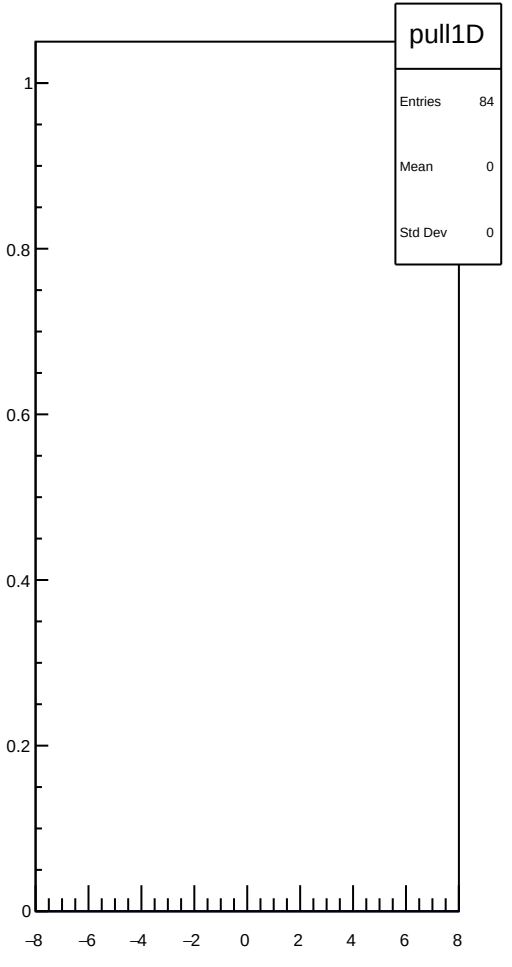

dit_sam3_coil1_err_mean vs run
χ² / ndf 3.029e+36 / 83
p0 625.8 ± 1.091e−16
1000
900
800
700
600
500
400
pull
Entries 84
Mean −1.392e+10
Std Dev 1.392e+10
×10¹⁵
400
300
200
100
0
−100
−200

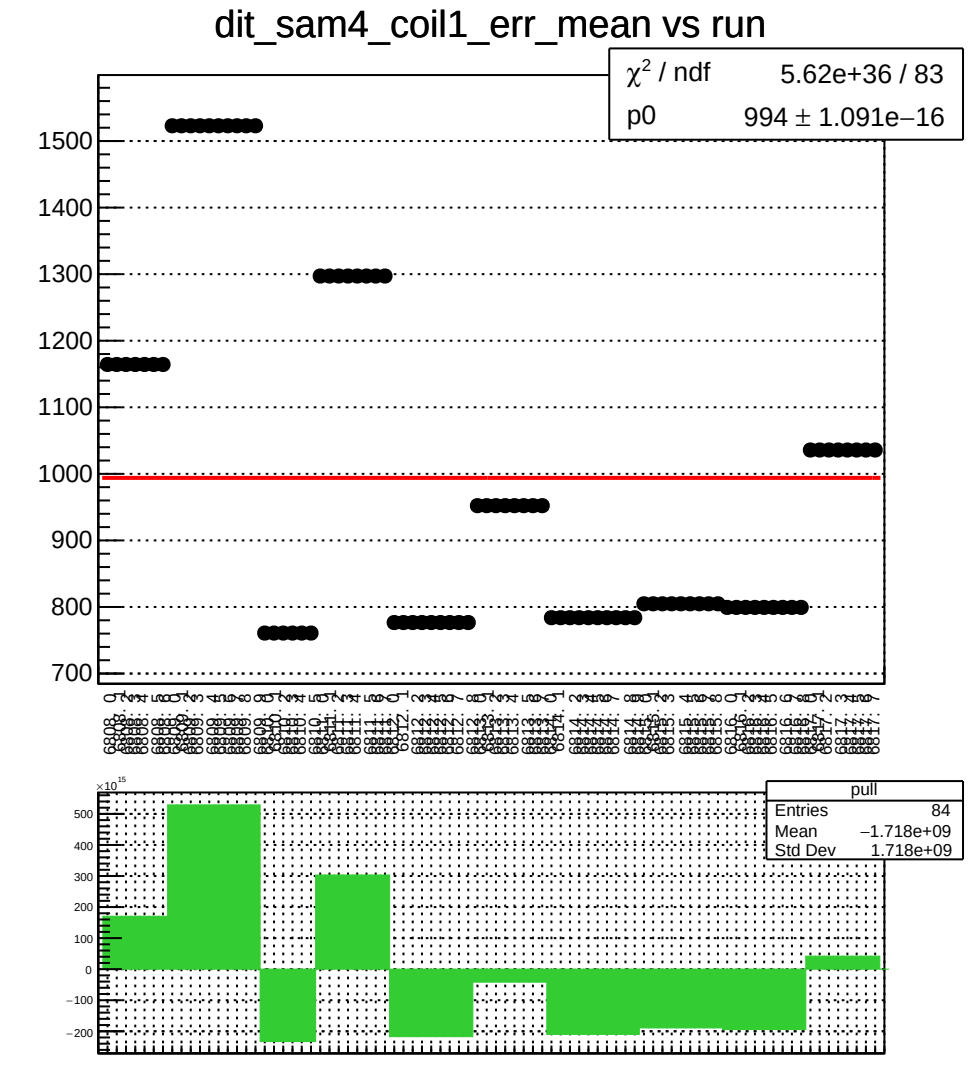

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

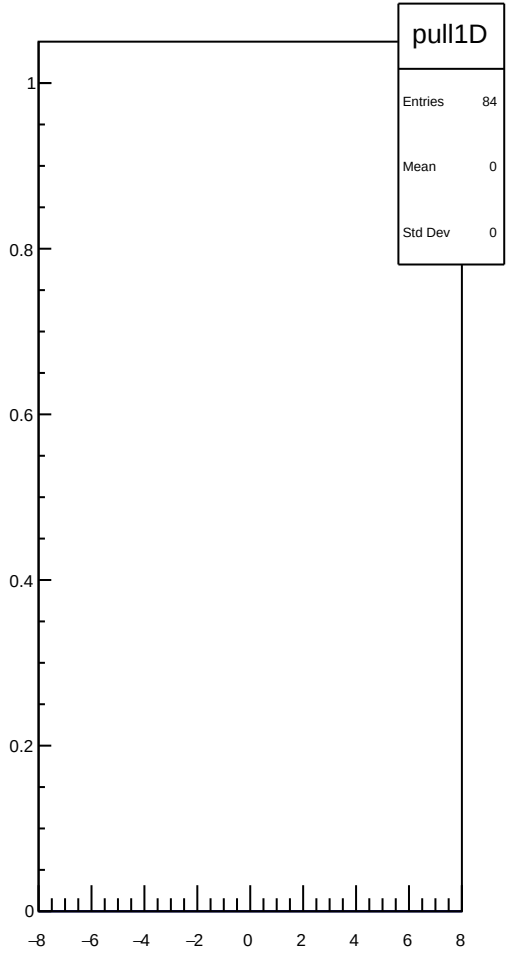

dit_sam3_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09

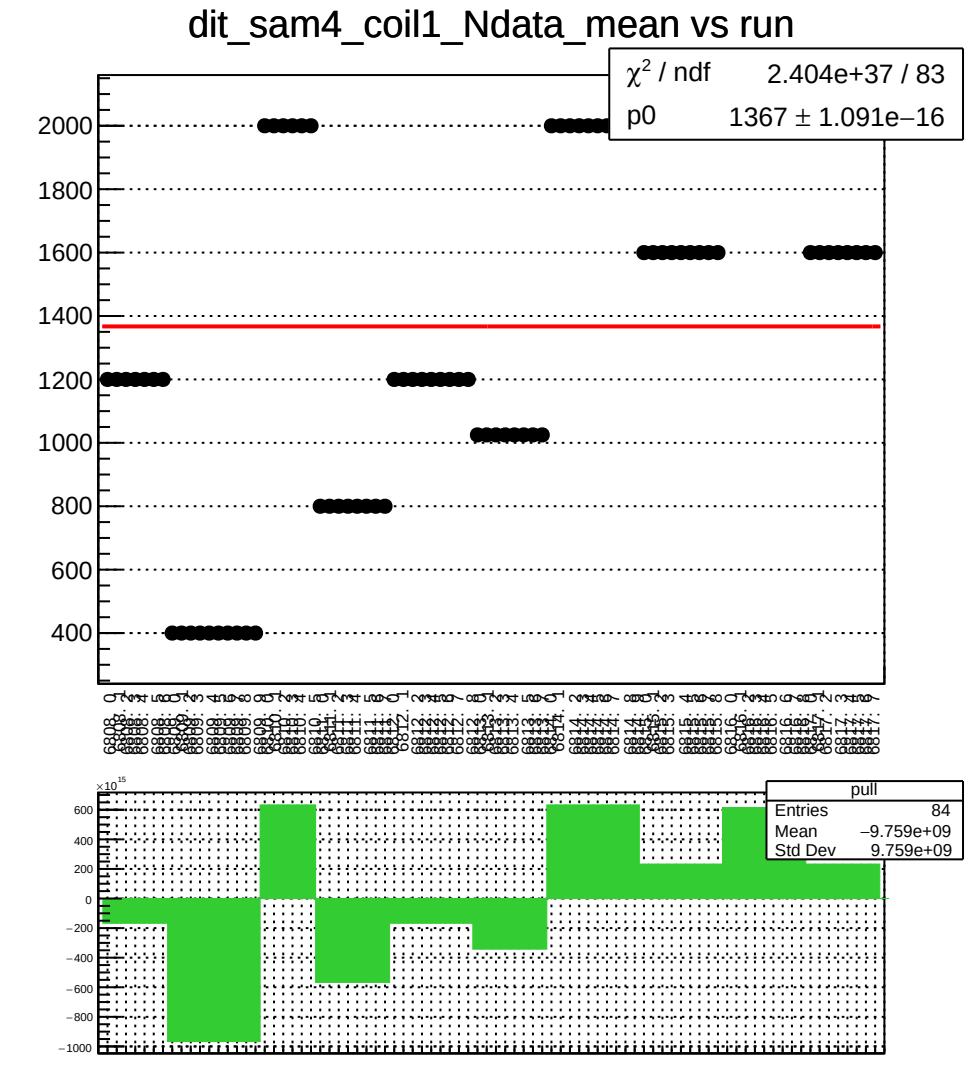

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

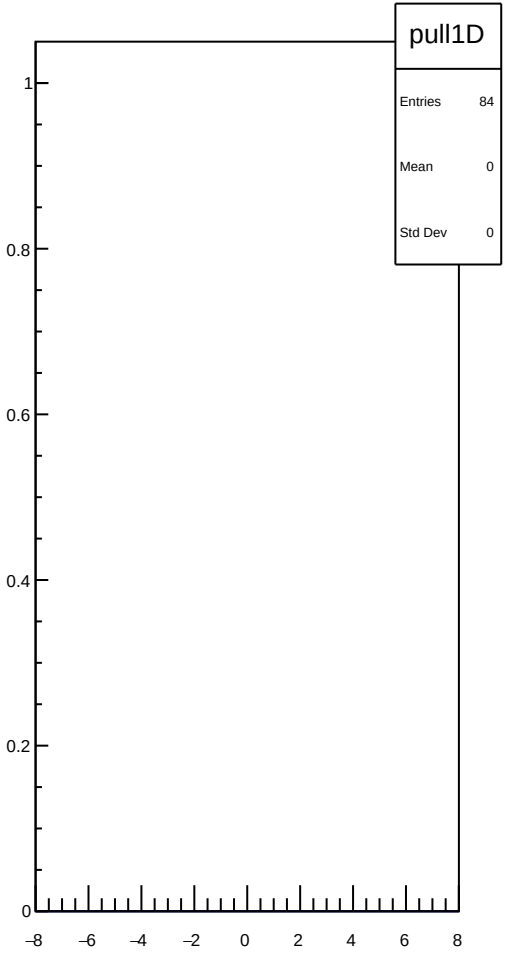

dit_sam4_coil1_mean vs run
χ² / ndf 8.504e+37 / 83
p0 9.689e+04 ± 1.091e−16
98500
98000
97500
97000
96500
96000
95500
pull
Entries 84
Mean −3.843e+08
Std Dev 3.843e+08
×10¹⁵
1500
1000
500
0
−500
−1000

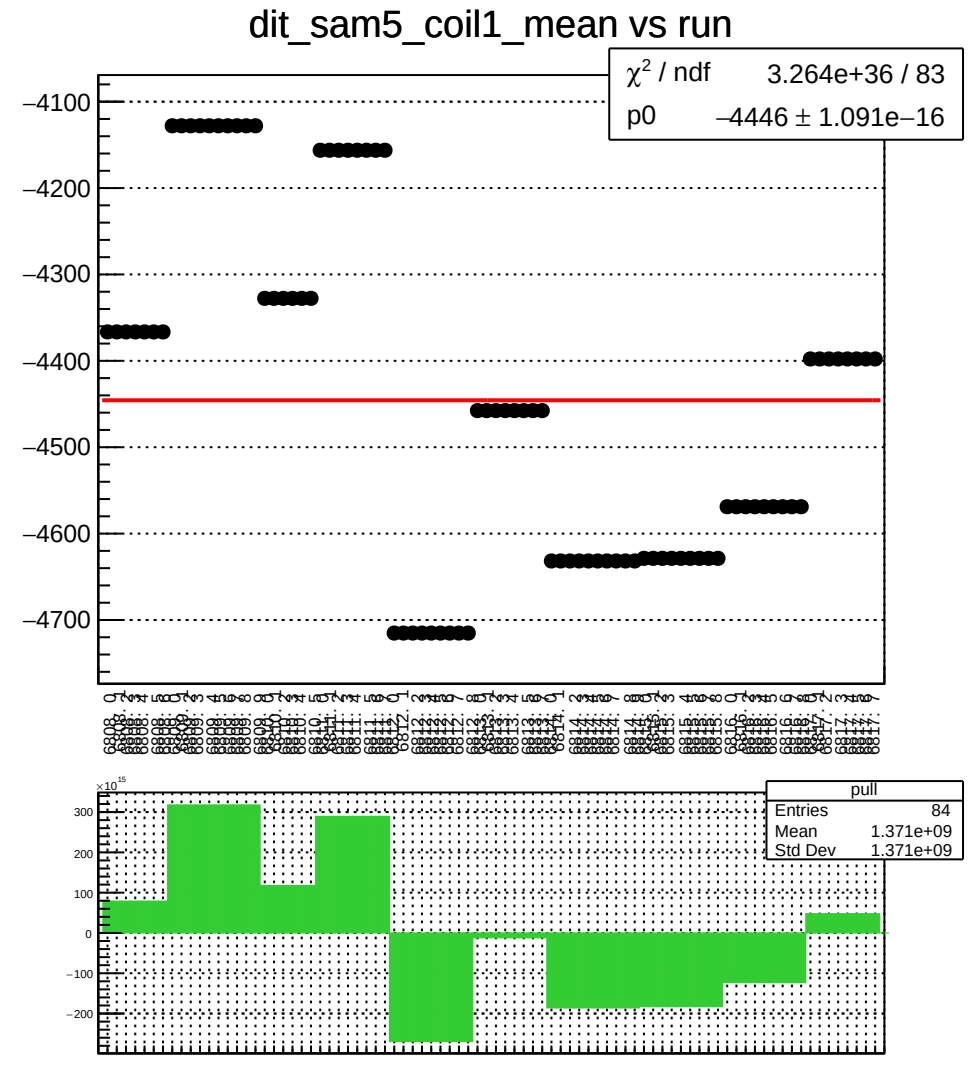

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

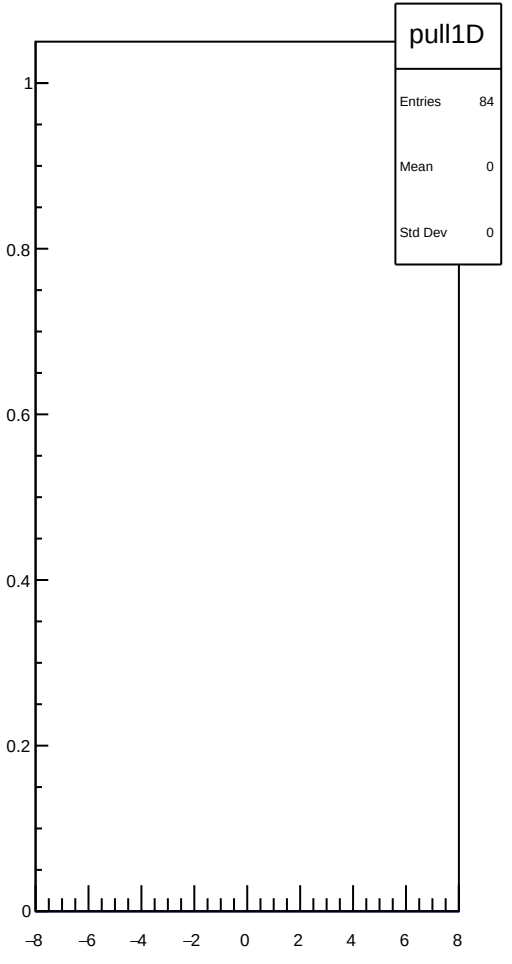

dit_sam4_coil1_err_mean vs run
χ² / ndf 5.62e+36 / 83
p0 994 ± 1.091e−16
1500
1400
1300
1200
1100
1000
900
800
700
pull
Entries 84
Mean −1.718e+09
Std Dev 1.718e+09
×10¹⁵
500
400
300
200
100
0
−100
−200

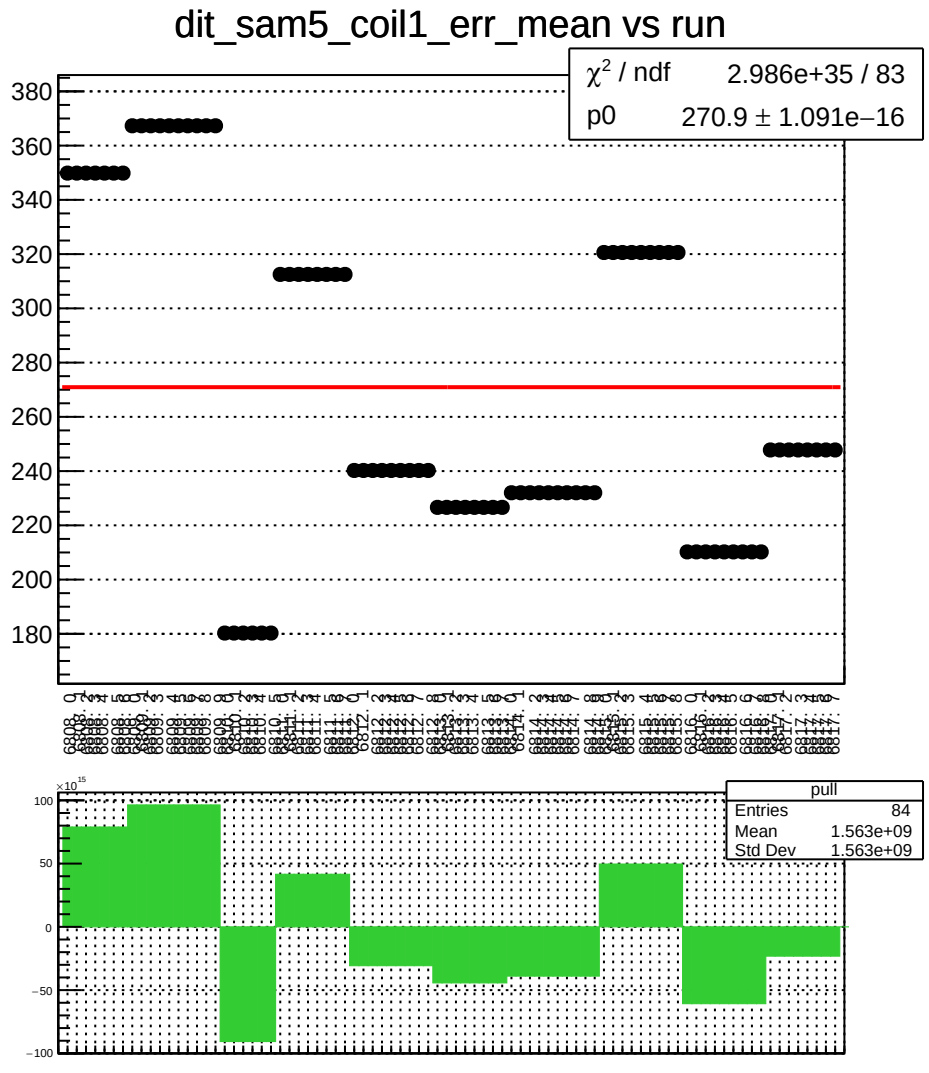

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

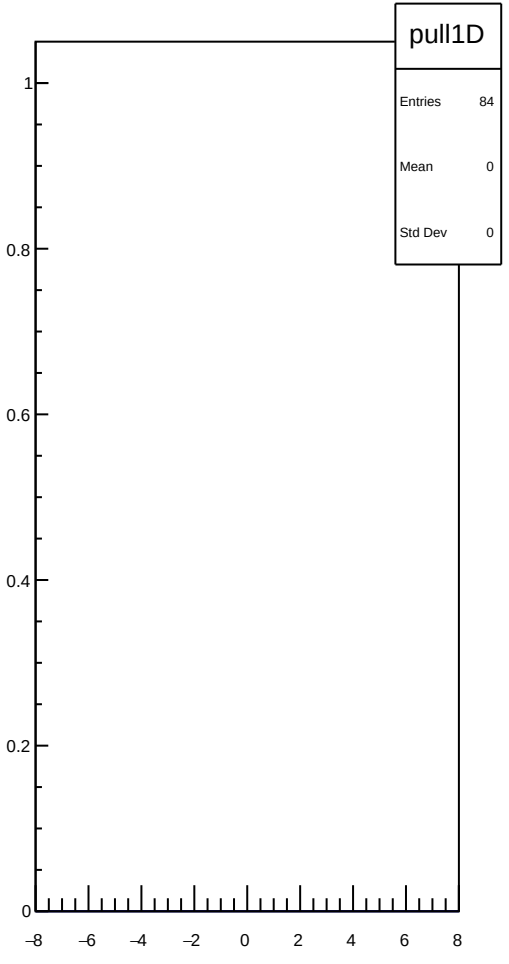

dit_sam4_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

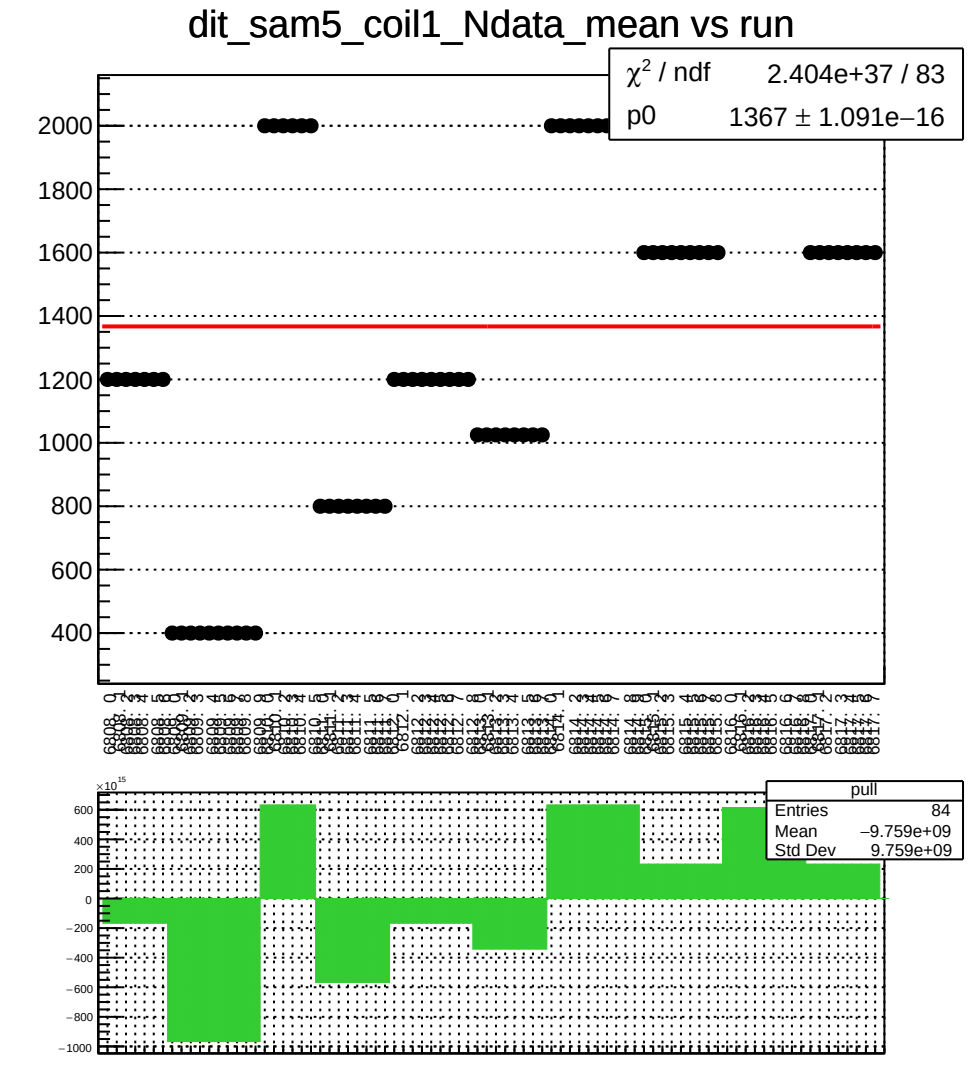

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

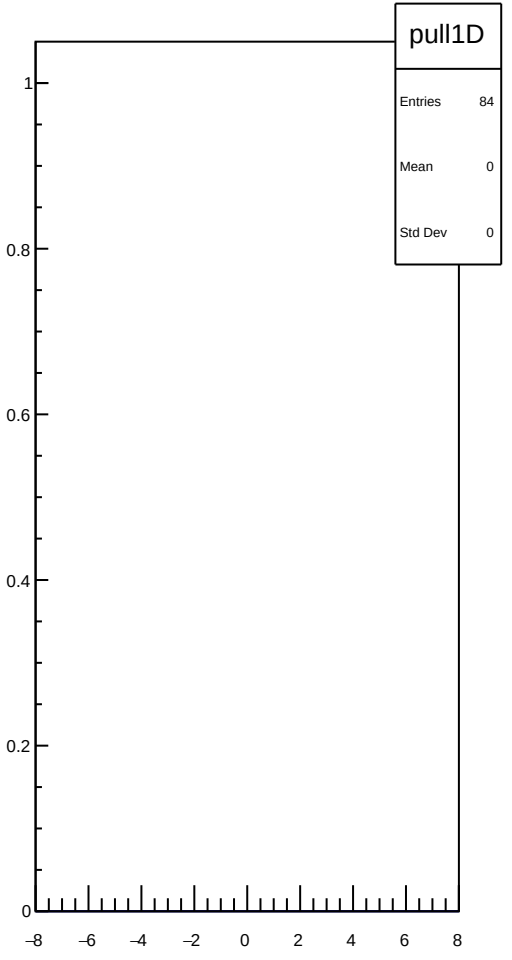

dit_sam5_coil1_mean vs run
χ² / ndf 3.264e+36 / 83
p0 −4446 ± 1.091e−16
−4100
−4200
−4300
−4400
−4500
−4600
−4700
pull
Entries 84
Mean 1.371e+09
Std Dev 1.371e+09
×10¹⁵
300
200
100
0
−100
−200

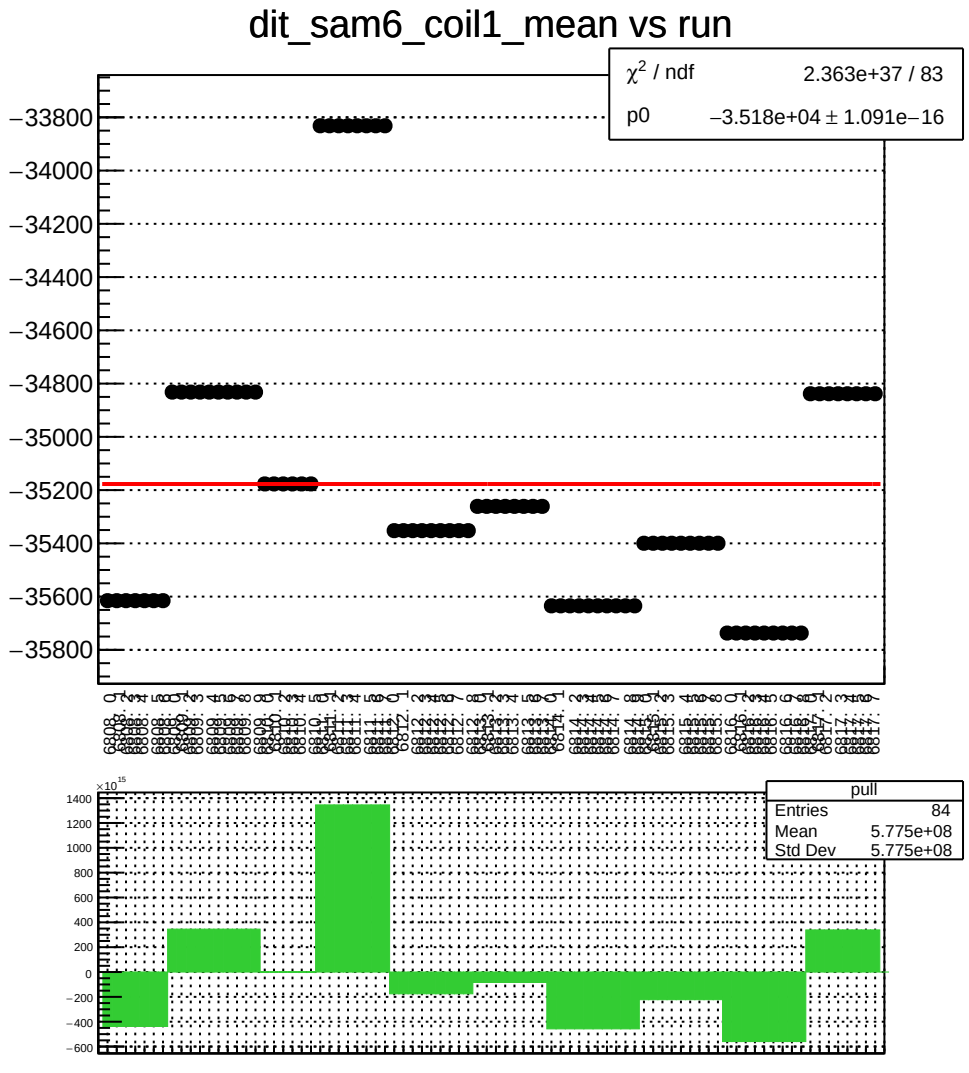

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

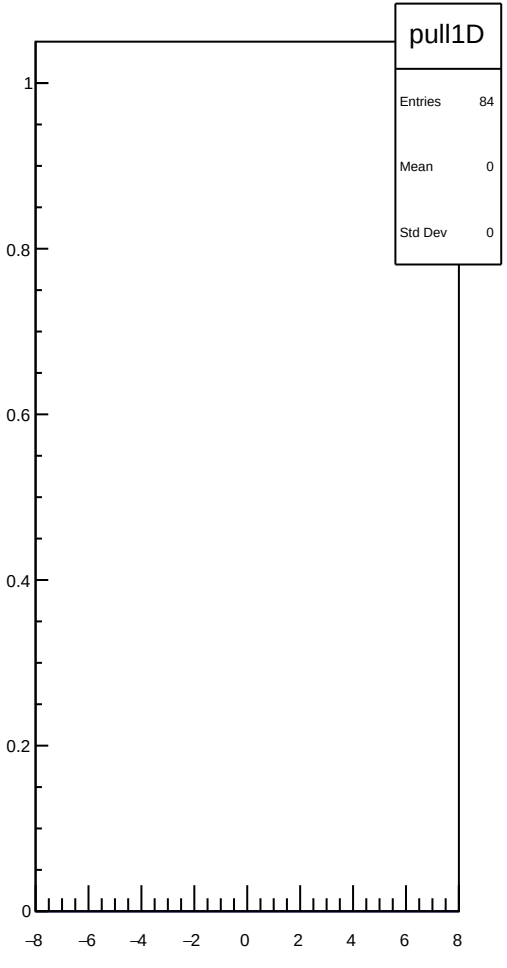

dit_sam5_coil1_err_mean vs run
χ² / ndf 2.986e+35 / 83
p0 270.9 ± 1.091e−16
380
360
340
320
300
280
260
240
220
200
180
×10¹⁵
100
50
0
−50
−100
pull
Entries 84
Mean 1.563e+09
Std Dev 1.563e+09

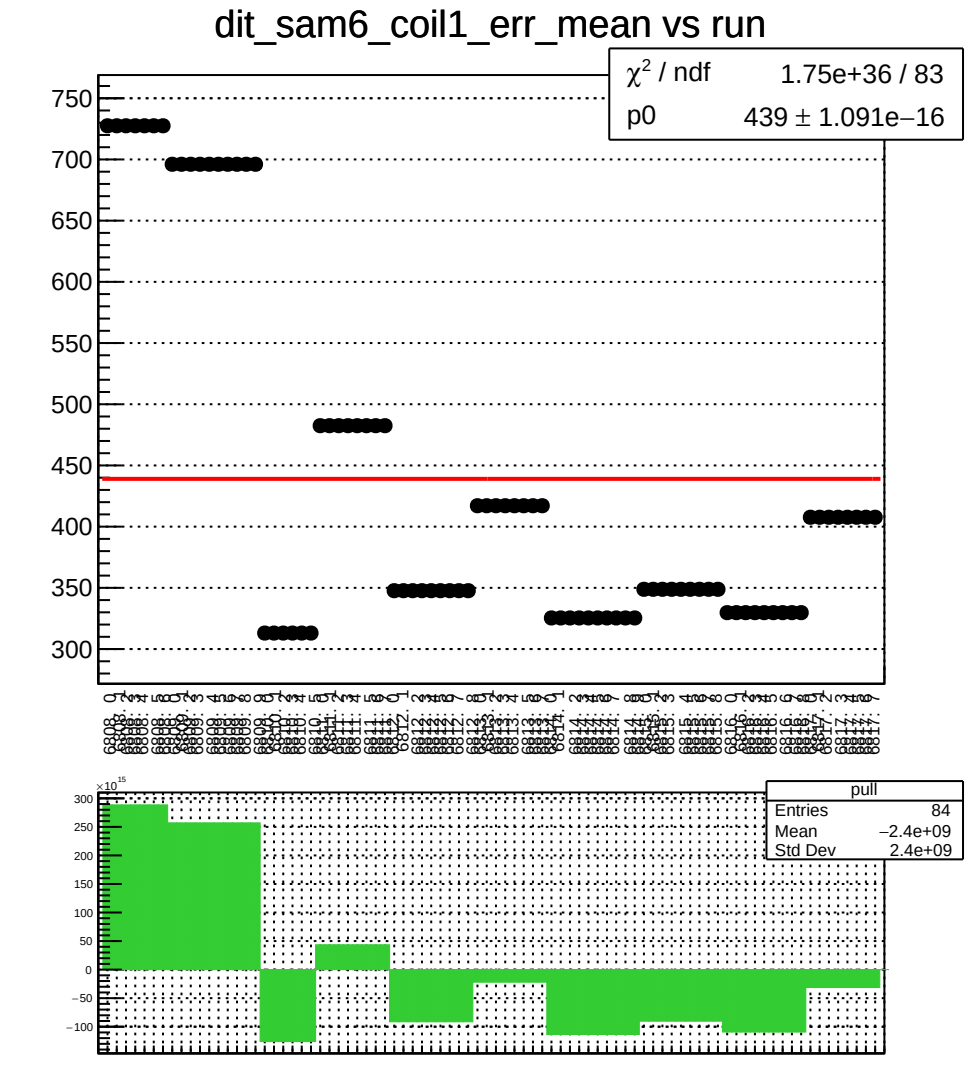

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

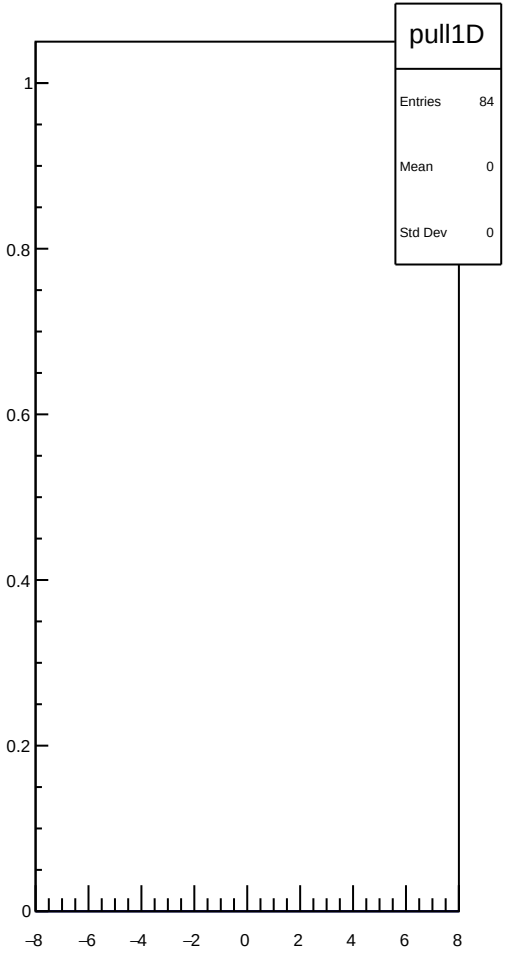

dit_sam5_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

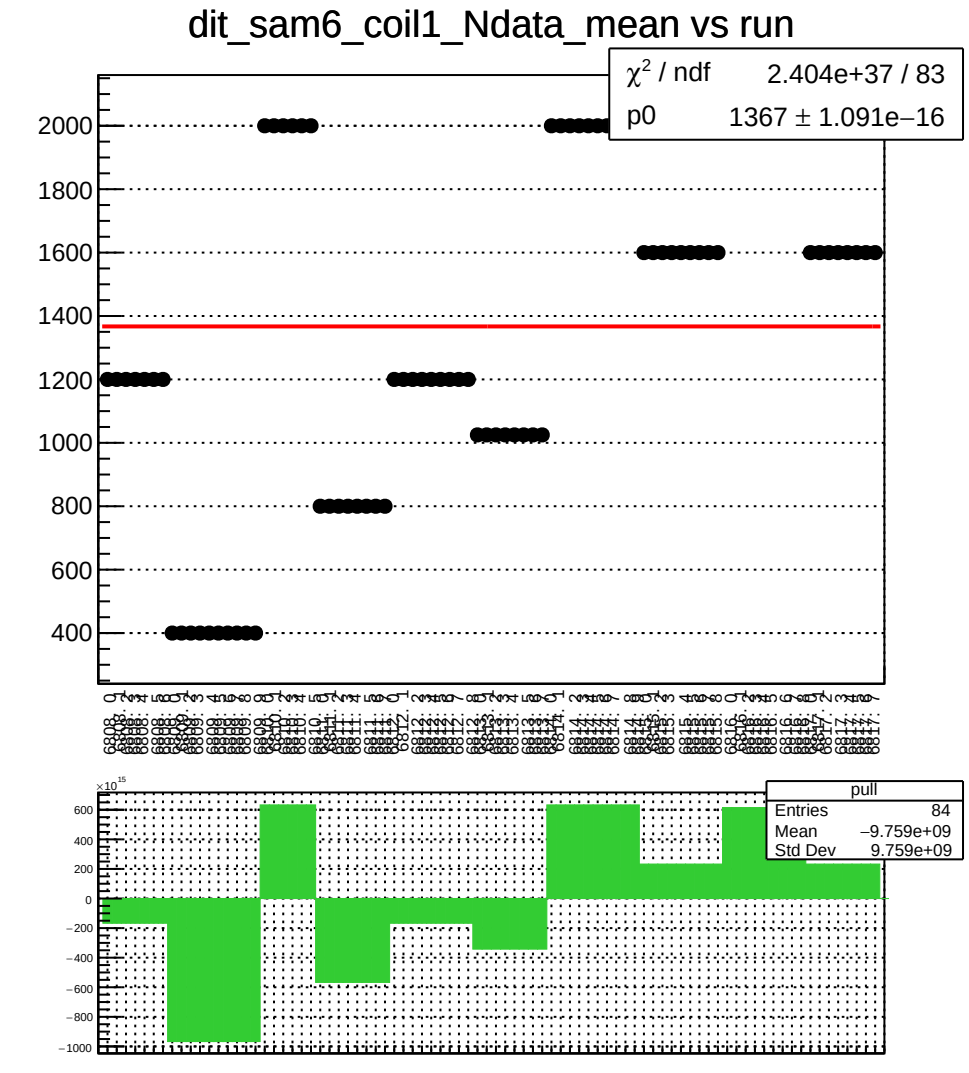

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

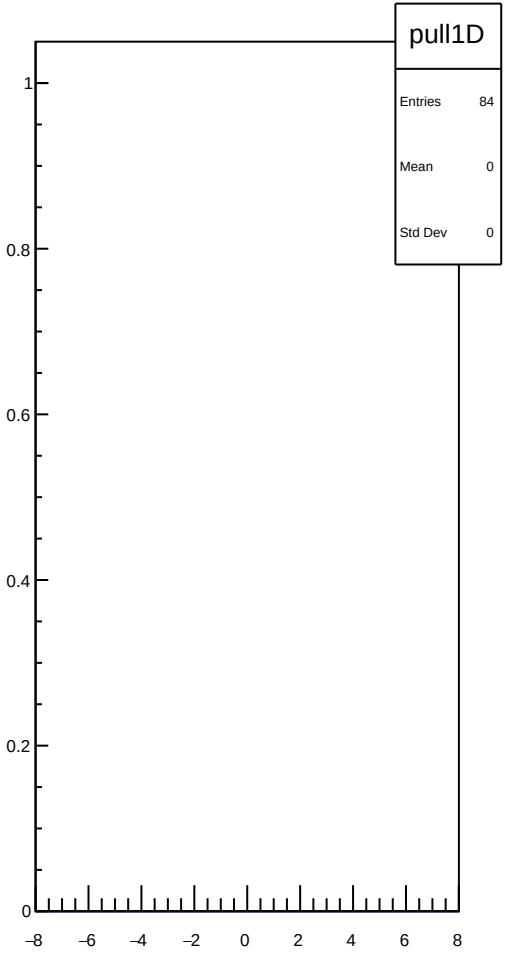

dit_sam6_coil1_mean vs run
χ² / ndf 2.363e+37 / 83
p0 −3.518e+04 ± 1.091e−16
−33800
−34000
−34200
−34400
−34600
−34800
−35000
−35200
−35400
−35600
−35800
pull
Entries 84
Mean 5.775e+08
Std Dev 5.775e+08
×10¹⁵
1400
1200
1000
800
600
400
200
0
−200
−400
−600

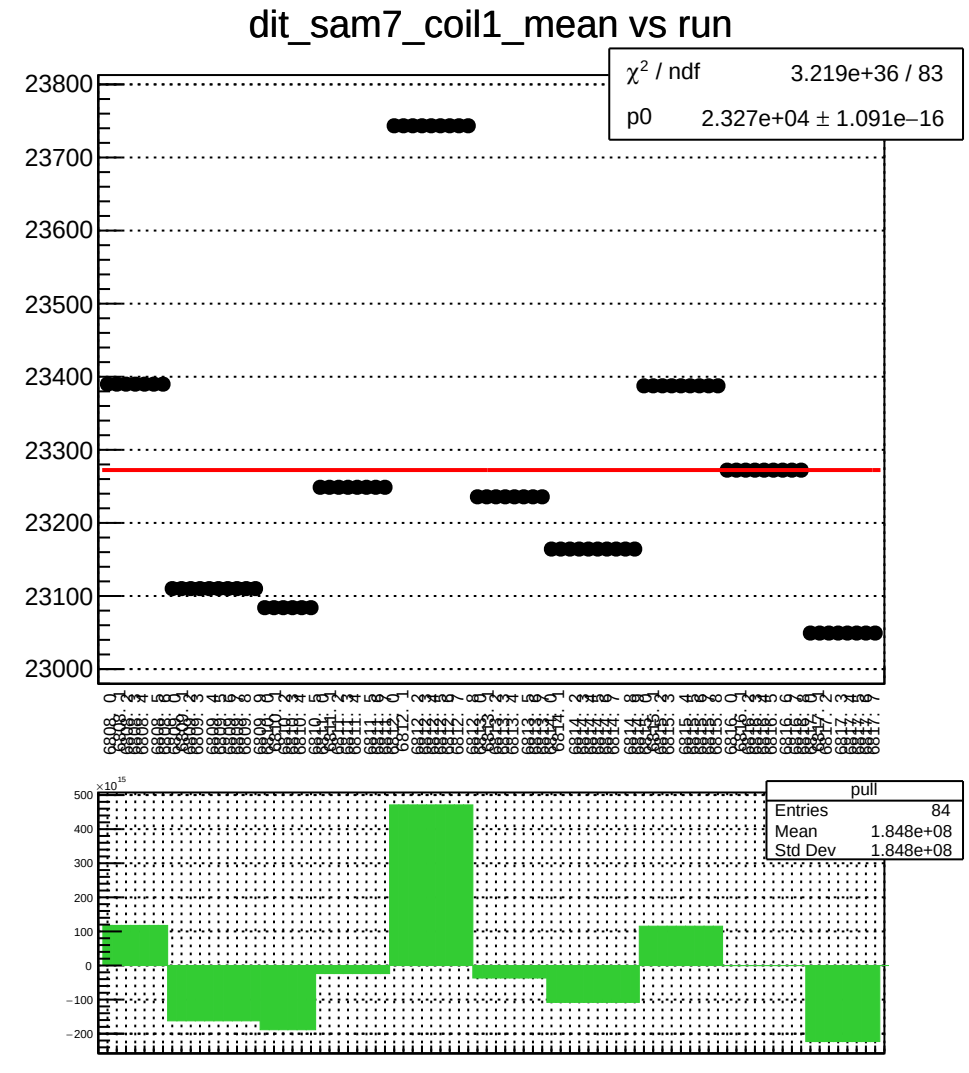

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

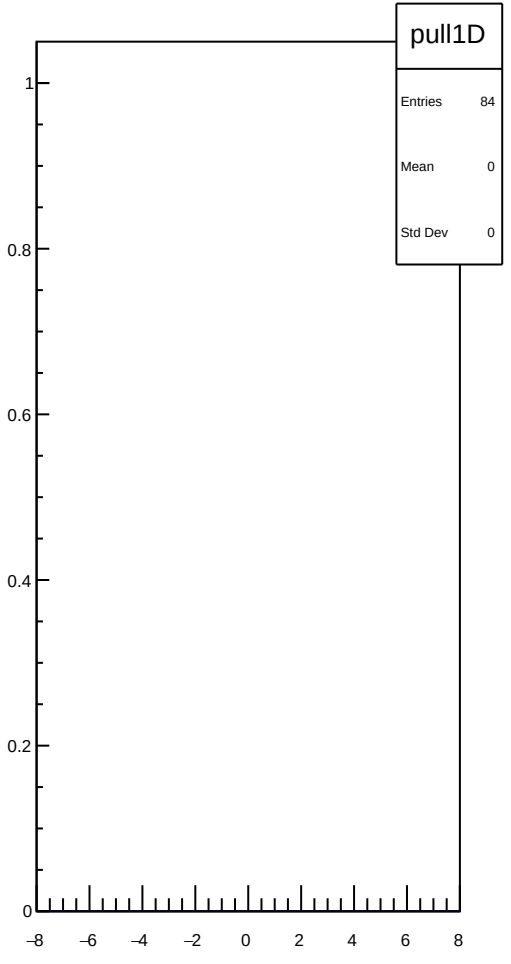

dit_sam6_coil1_err_mean vs run
χ² / ndf 1.75e+36 / 83
p0 439 ± 1.091e−16
pull
Entries 84
Mean −2.4e+09
Std Dev 2.4e+09

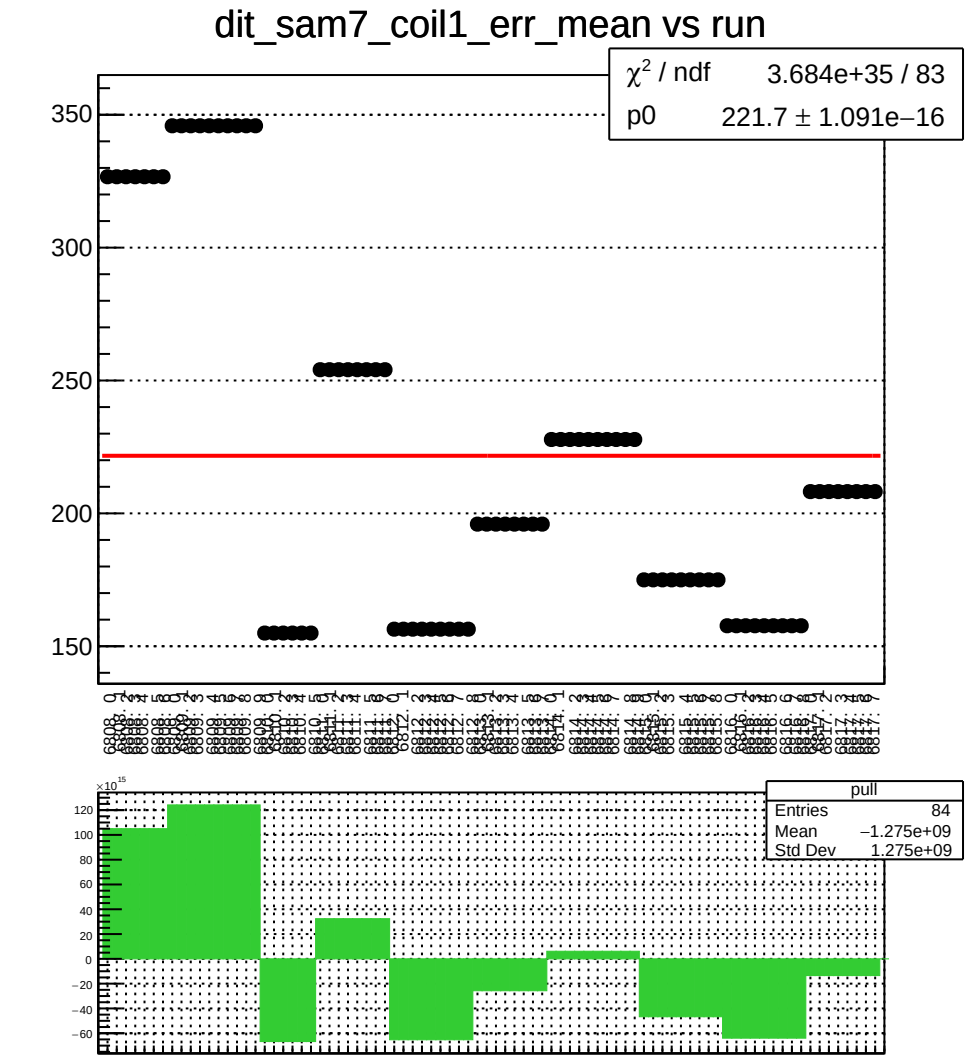

pull1D
Entries 84
Mean 0
Std Dev 0

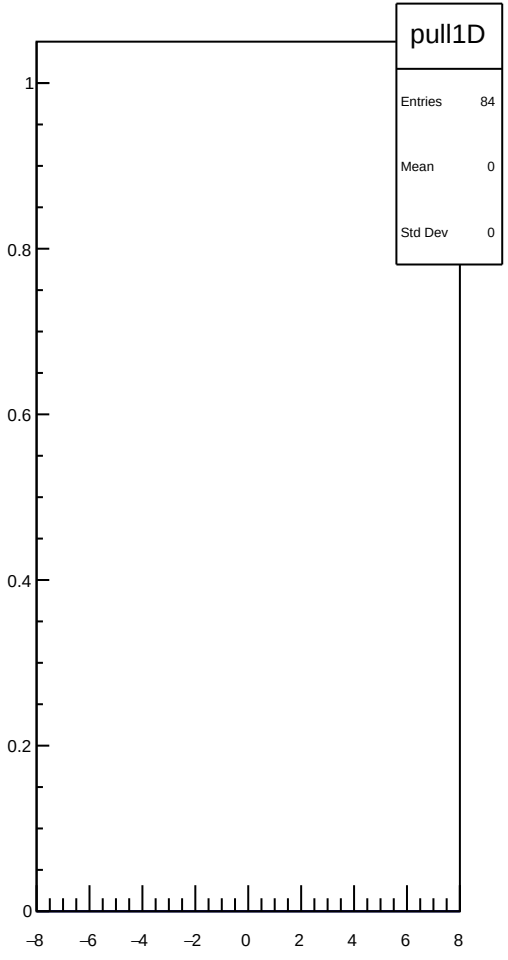

dit_sam6_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

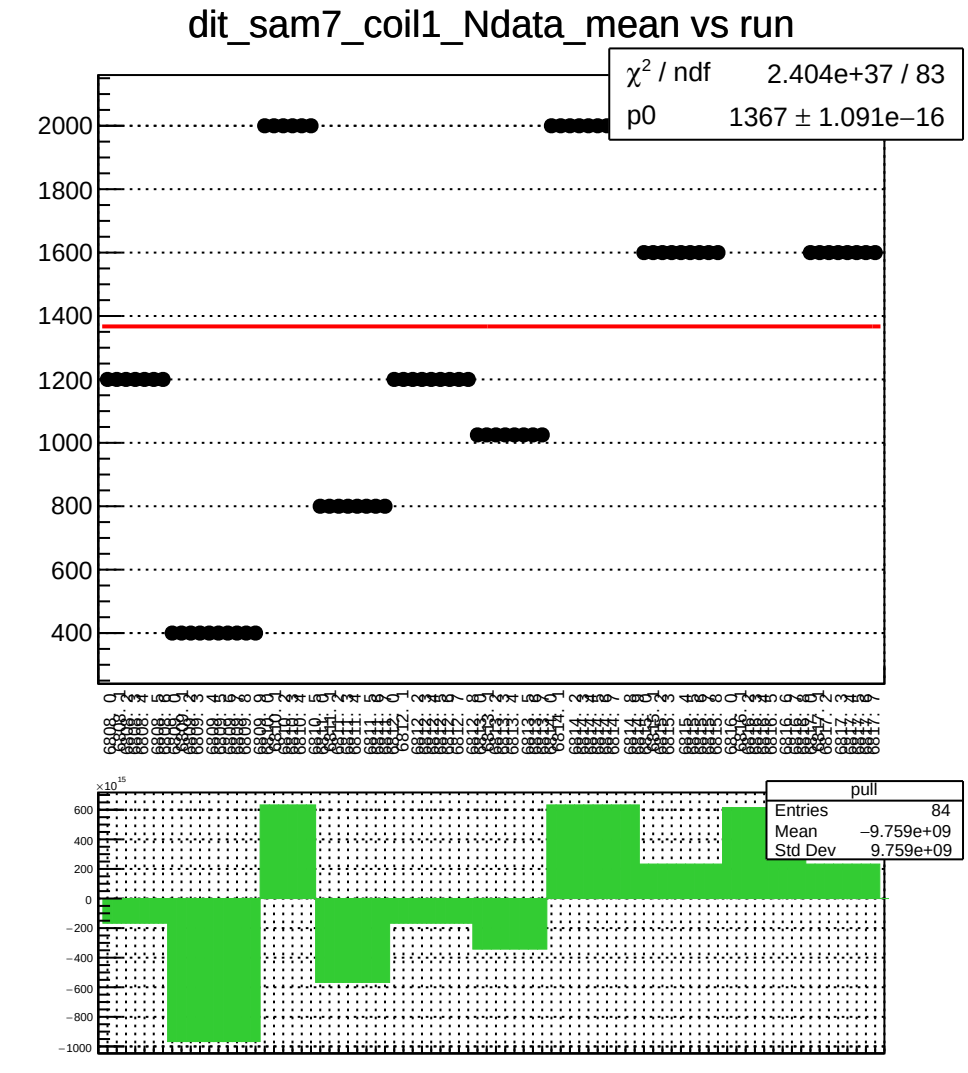

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

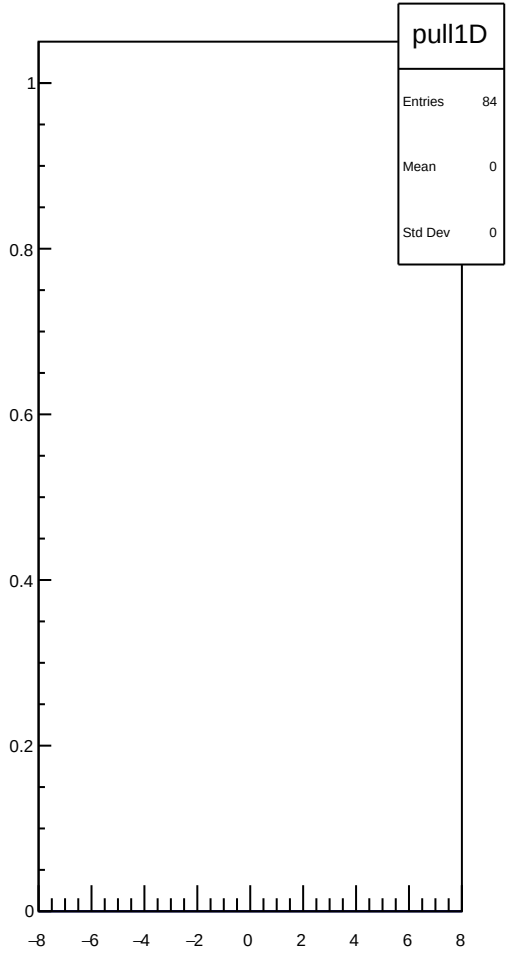

dit_sam7_coil1_mean vs run
χ² / ndf 3.219e+36 / 83
p0 2.327e+04 ± 1.091e−16
23800
23700
23600
23500
23400
23300
23200
23100
23000
pull
Entries 84
Mean 1.848e+08
Std Dev 1.848e+08
×10¹⁵
500
400
300
200
100
0
−100
−200

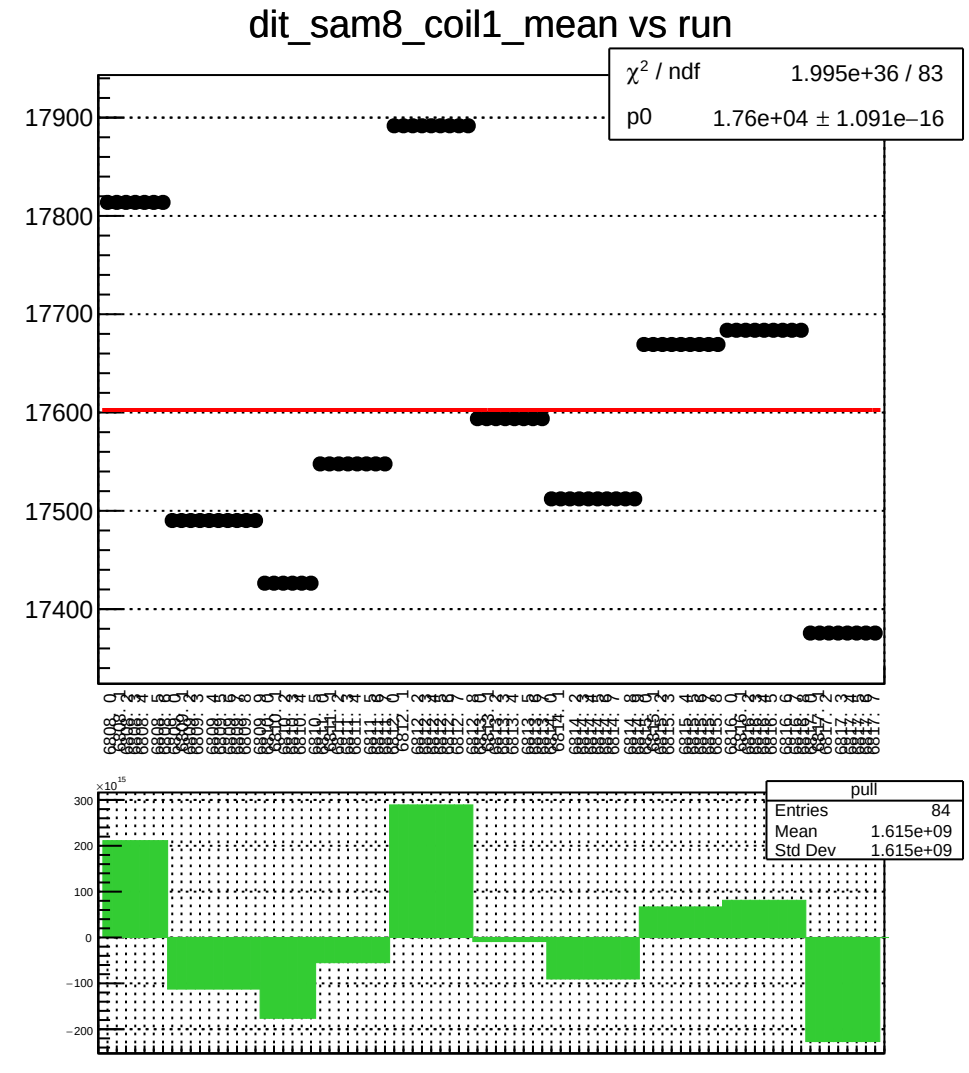

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

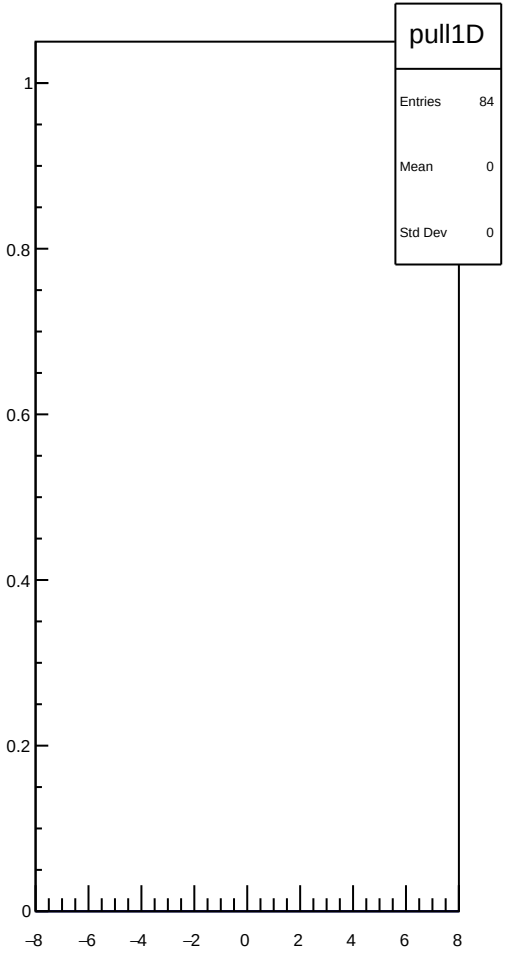

dit_sam7_coil1_err_mean vs run
χ² / ndf 3.684e+35 / 83
p0 221.7 ± 1.091e−16
350
300
250
200
150
pull
Entries 84
Mean −1.275e+09
Std Dev 1.275e+09
×10¹⁵
120
100
80
60
40
20
0
−20
−40
−60

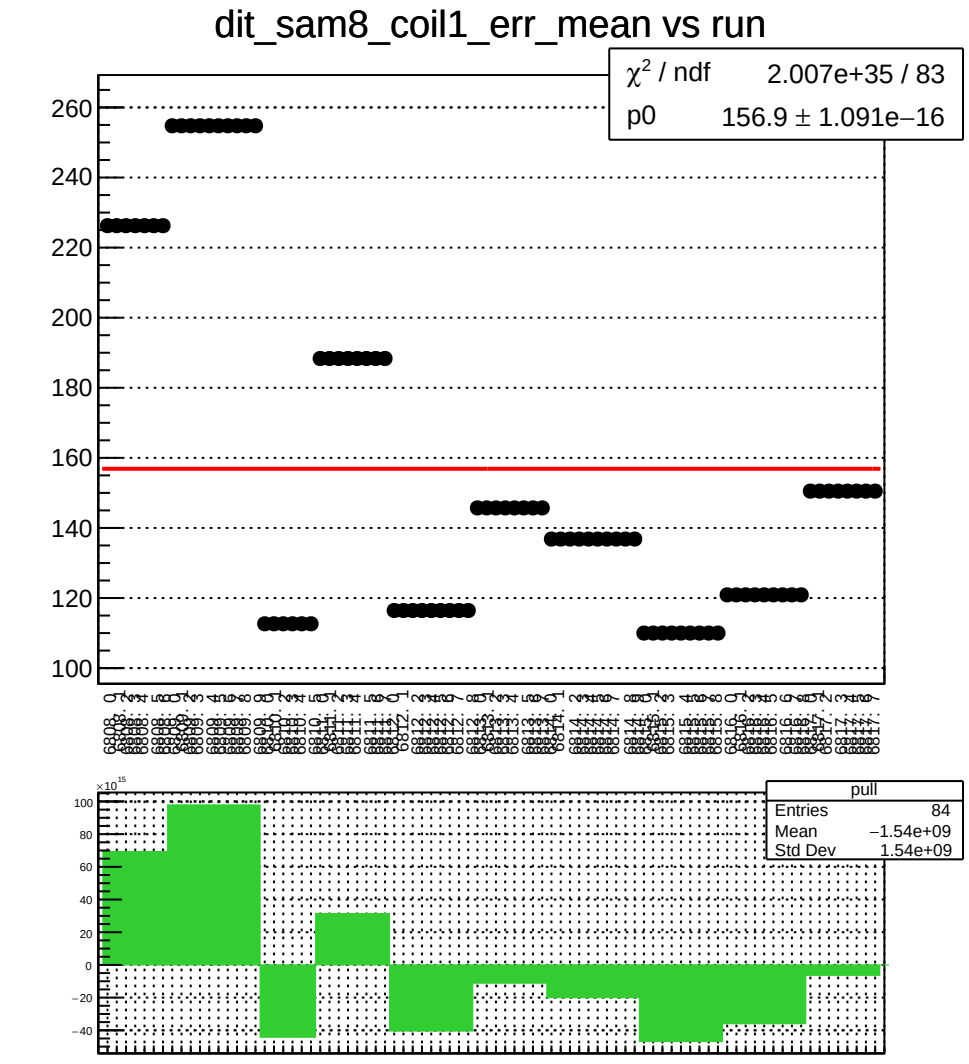

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

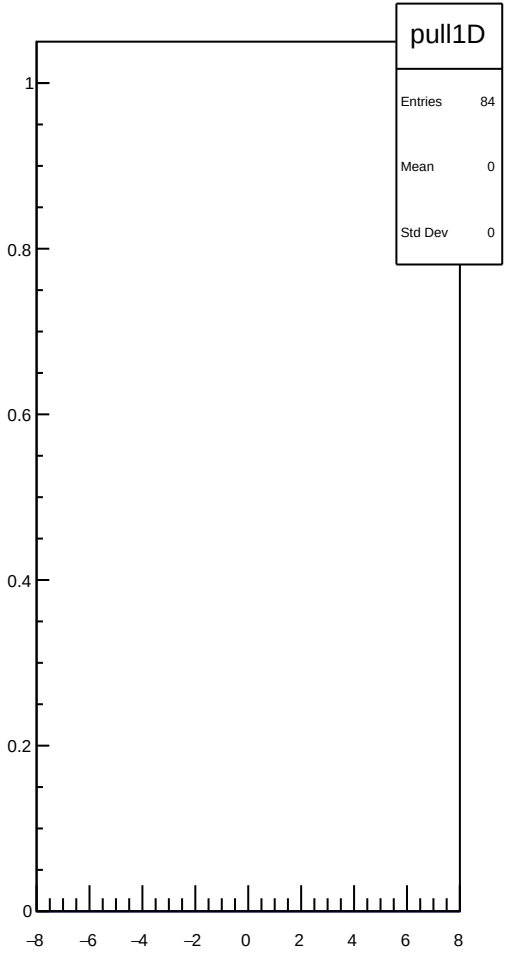

dit_sam7_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

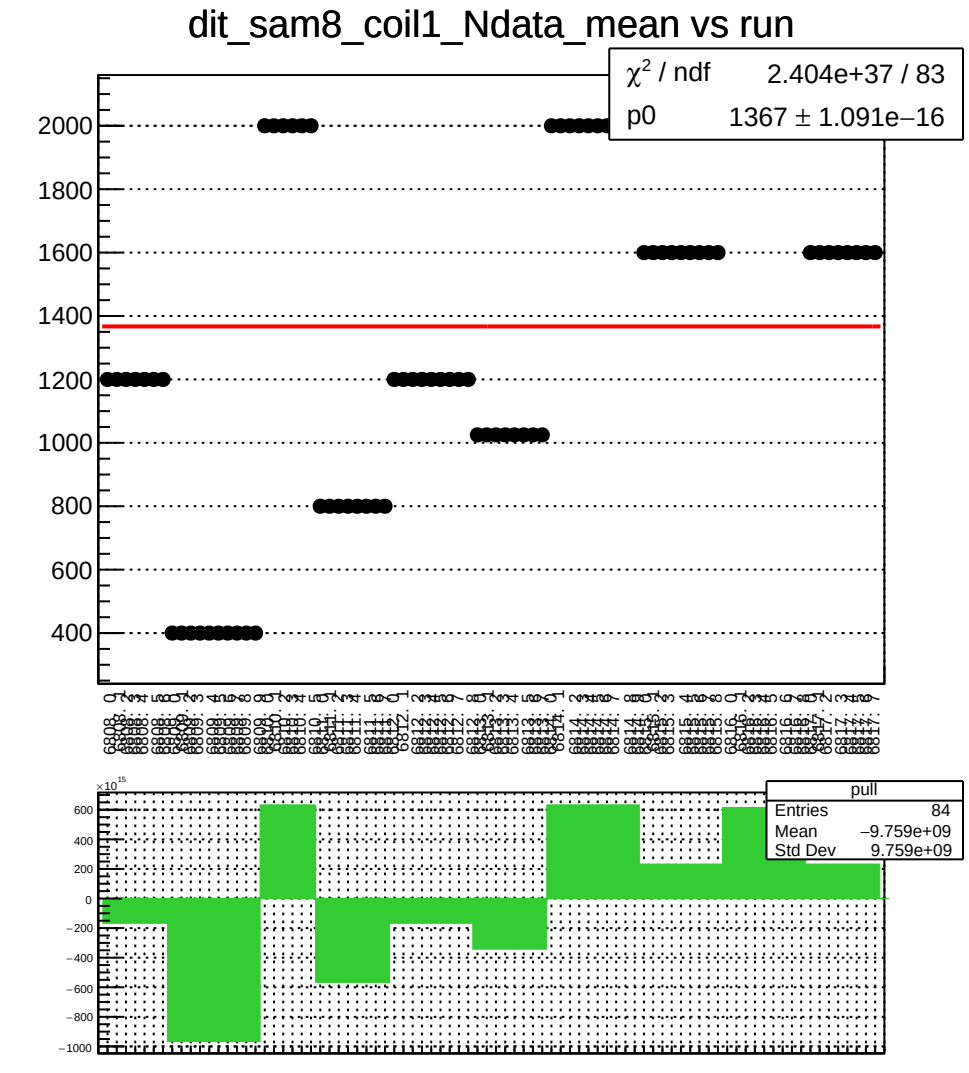

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

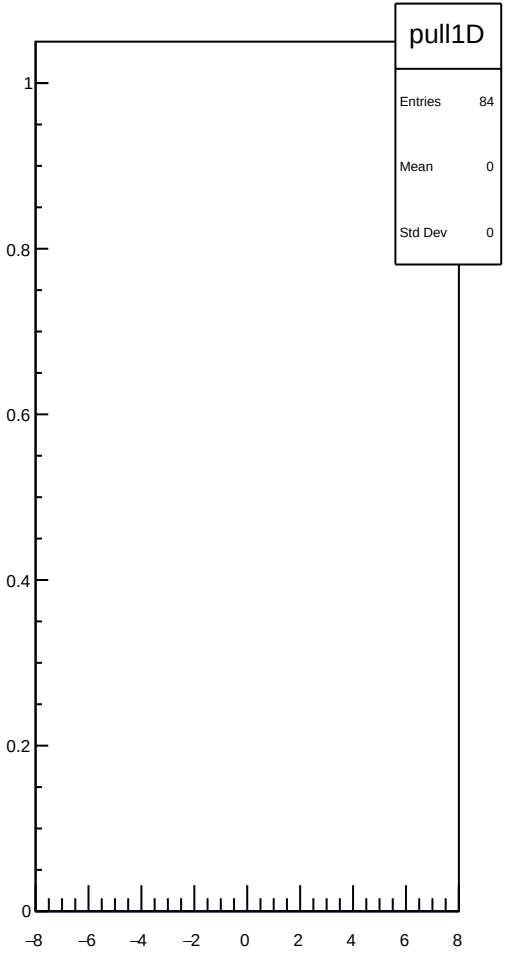

dit_sam8_coil1_mean vs run
χ² / ndf 1.995e+36 / 83
p0 1.76e+04 ± 1.091e−16
17900
17800
17700
17600
17500
17400
pull
Entries 84
Mean 1.615e+09
Std Dev 1.615e+09
×10¹⁵
300
200
100
0
−100
−200

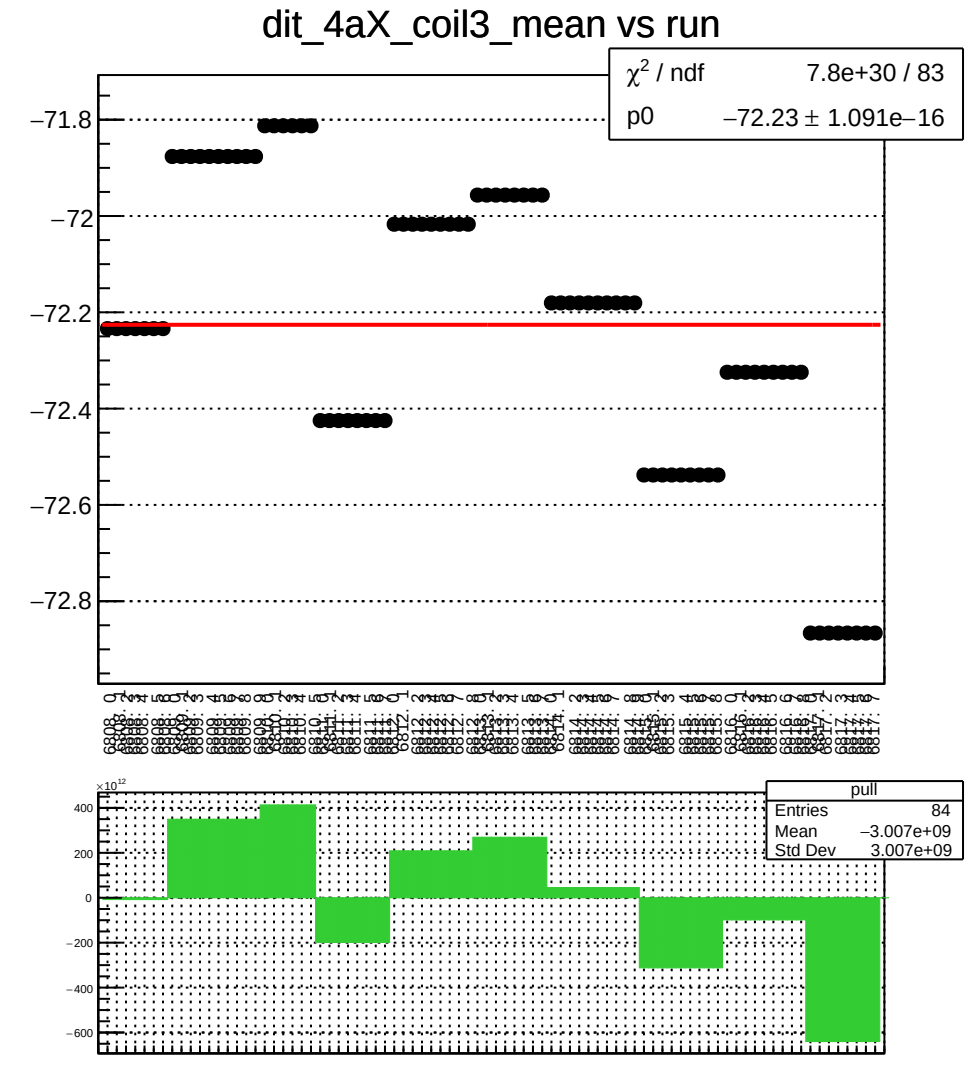

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

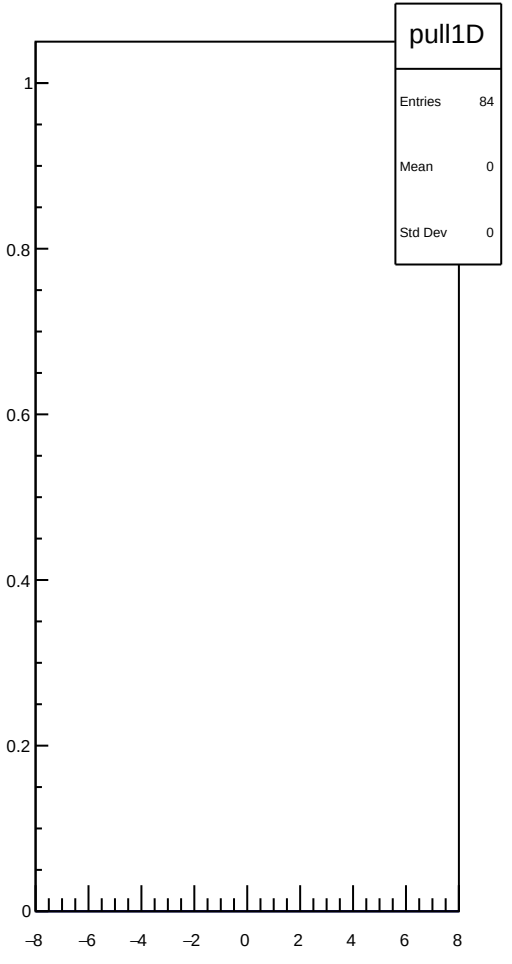

dit_sam8_coil1_err_mean vs run
χ² / ndf 2.007e+35 / 83
p0 156.9 ± 1.091e−16
pull
Entries 84
Mean −1.54e+09
Std Dev 1.54e+09

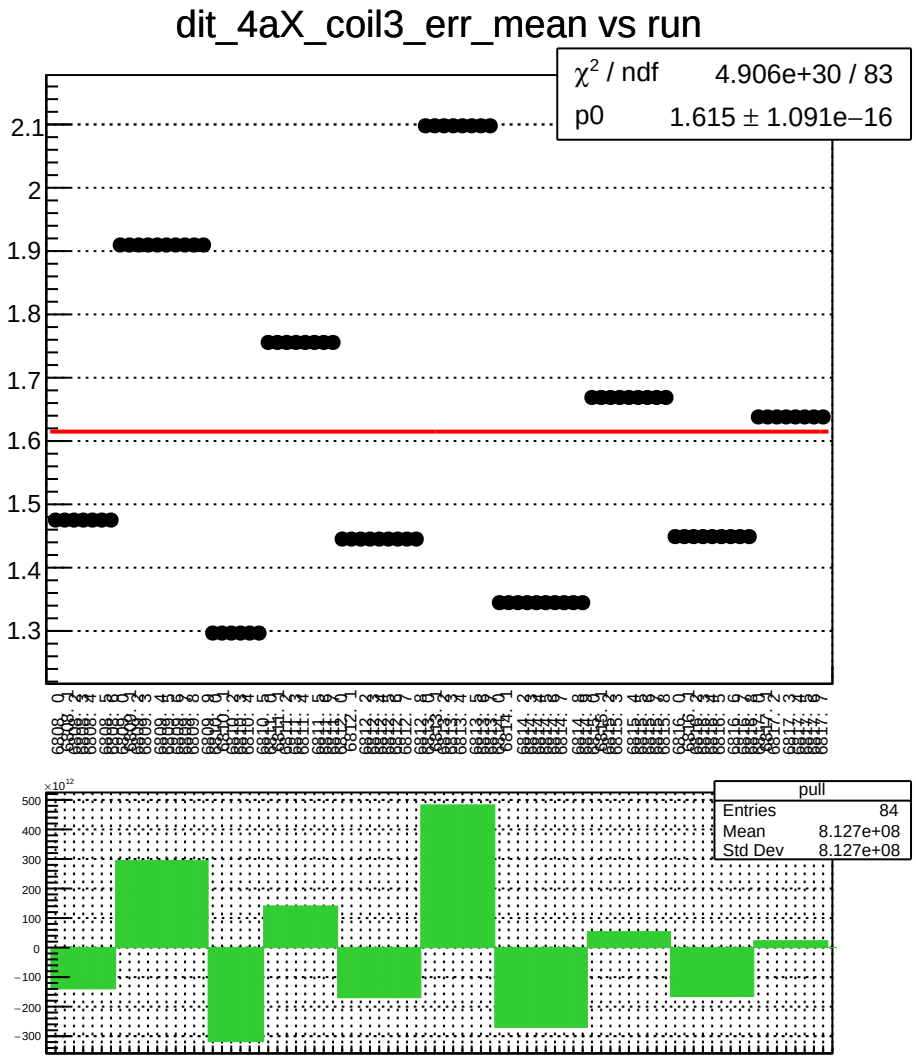

pull1D
Entries 84
Mean 0
Std Dev 0

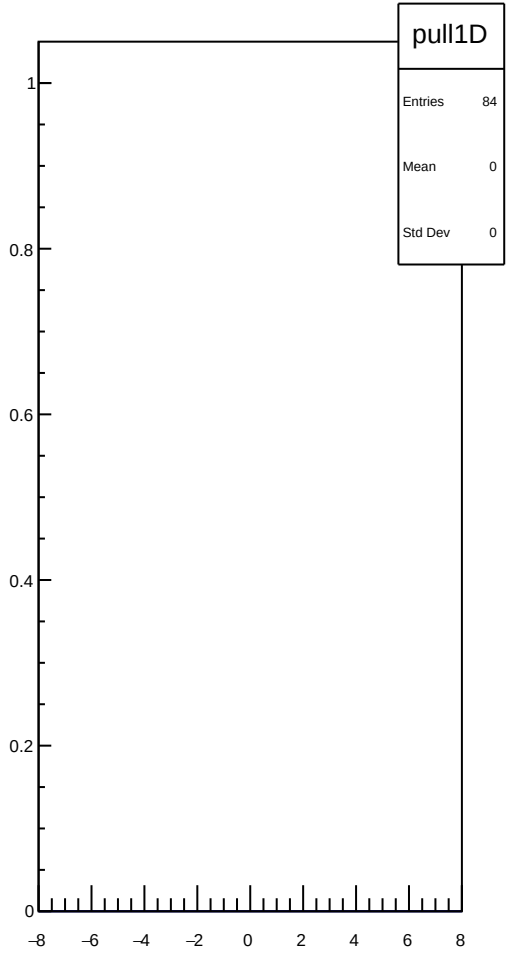

dit_sam8_coil1_Ndata_mean vs run
χ² / ndf 2.404e+37 / 83
p0 1367 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean −9.759e+09
Std Dev 9.759e+09
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

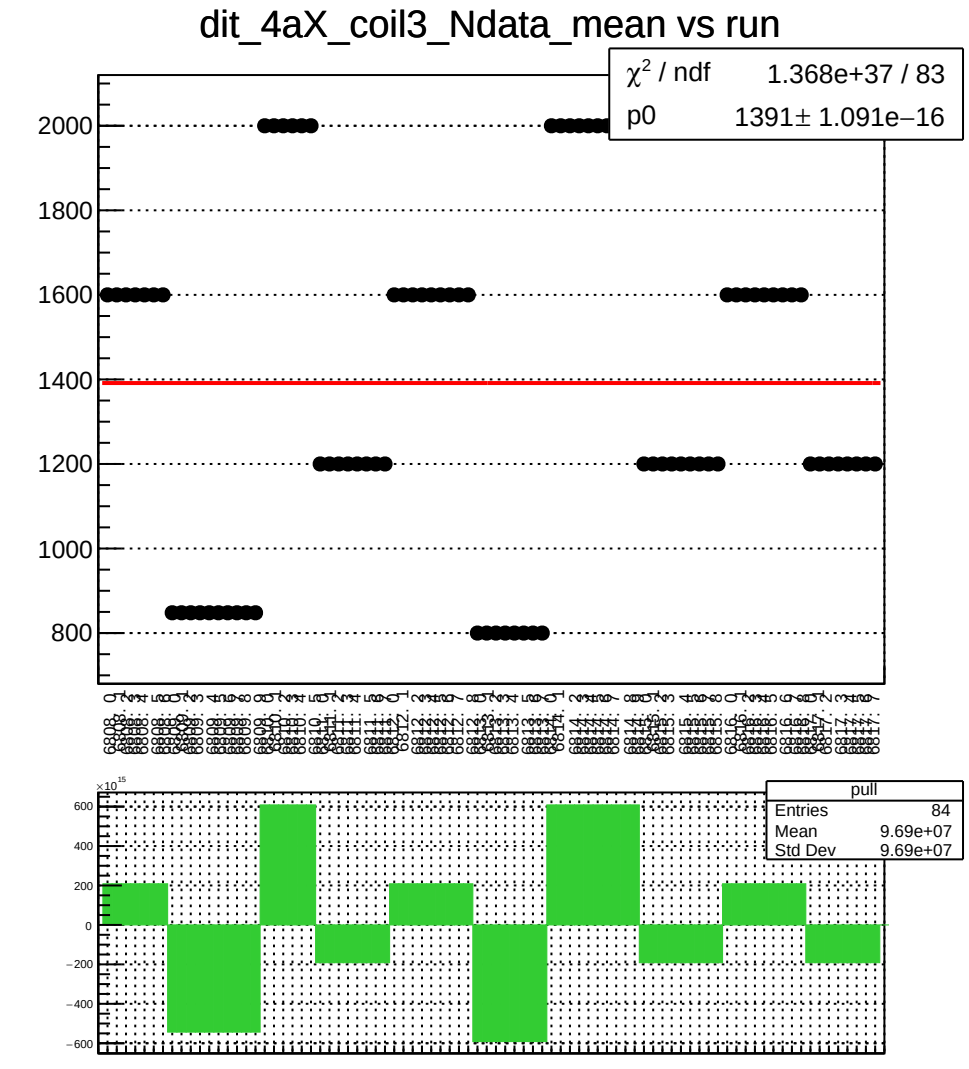

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

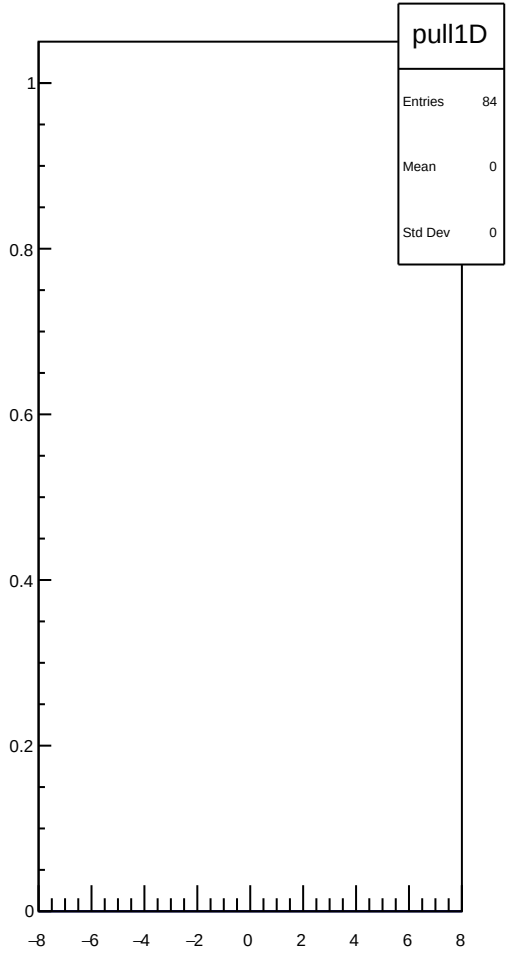

dit_4aX_coil3_mean vs run
χ² / ndf 7.8e+30 / 83
p0 −72.23 ± 1.091e−16
−71.8
−72
−72.2
−72.4
−72.6
−72.8
pull
Entries 84
Mean −3.007e+09
Std Dev 3.007e+09
×10¹²
400
200
0
−200
−400
−600

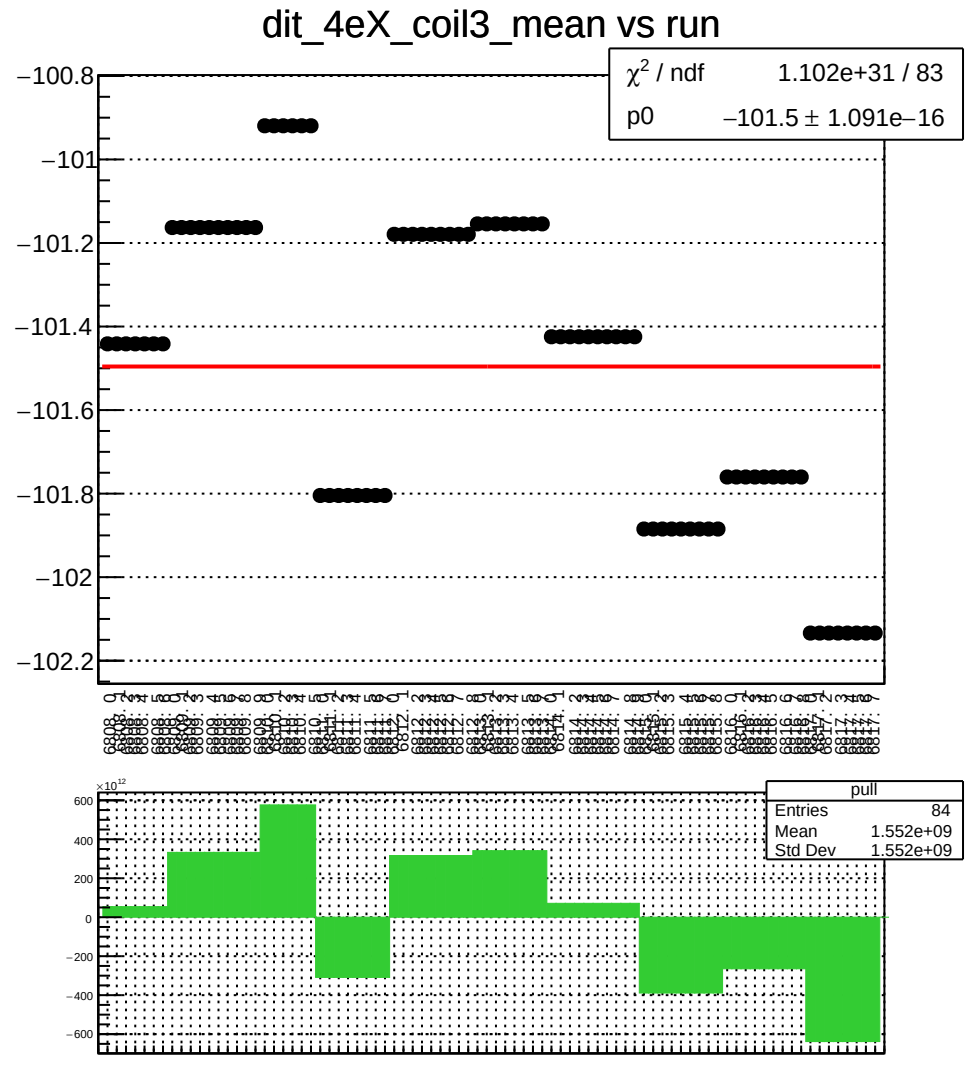

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

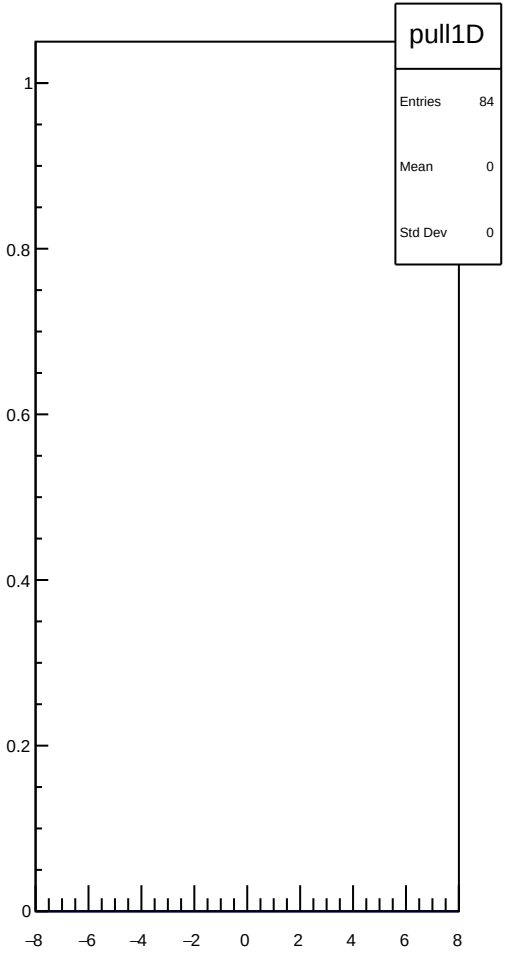

dit_4aX_coil3_err_mean vs run
χ² / ndf 4.906e+30 / 83
p0 1.615 ± 1.091e−16
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
×10¹²
500
400
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean 8.127e+08
Std Dev 8.127e+08

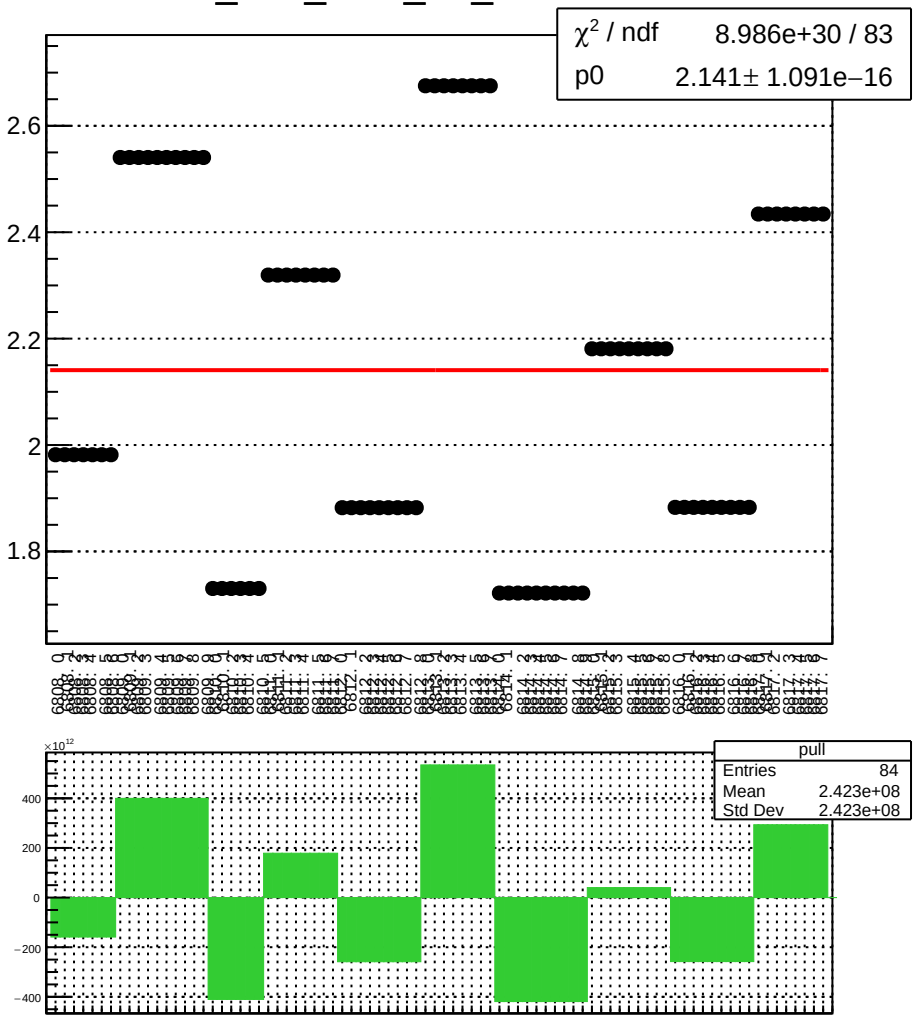

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

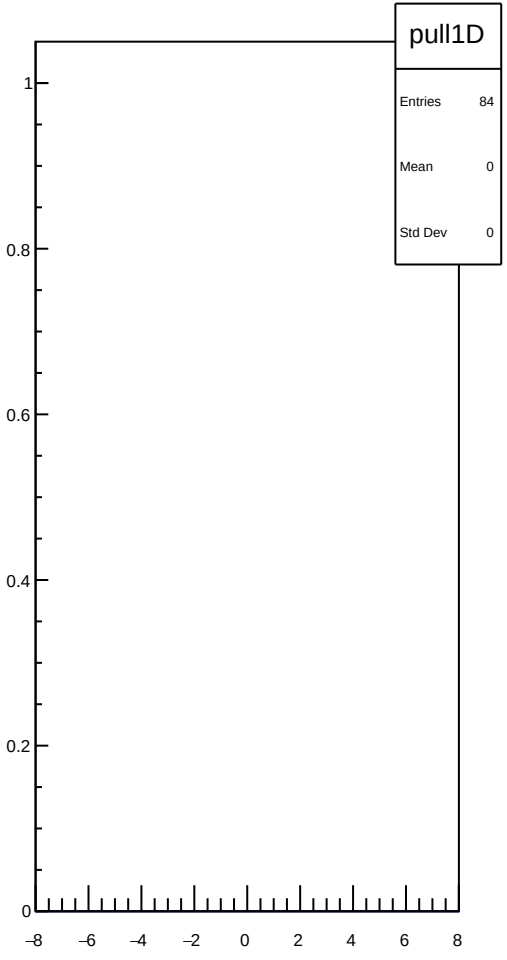

dit_4aX_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
×10¹⁵
600
400
200
0
−200
−400
−600
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07

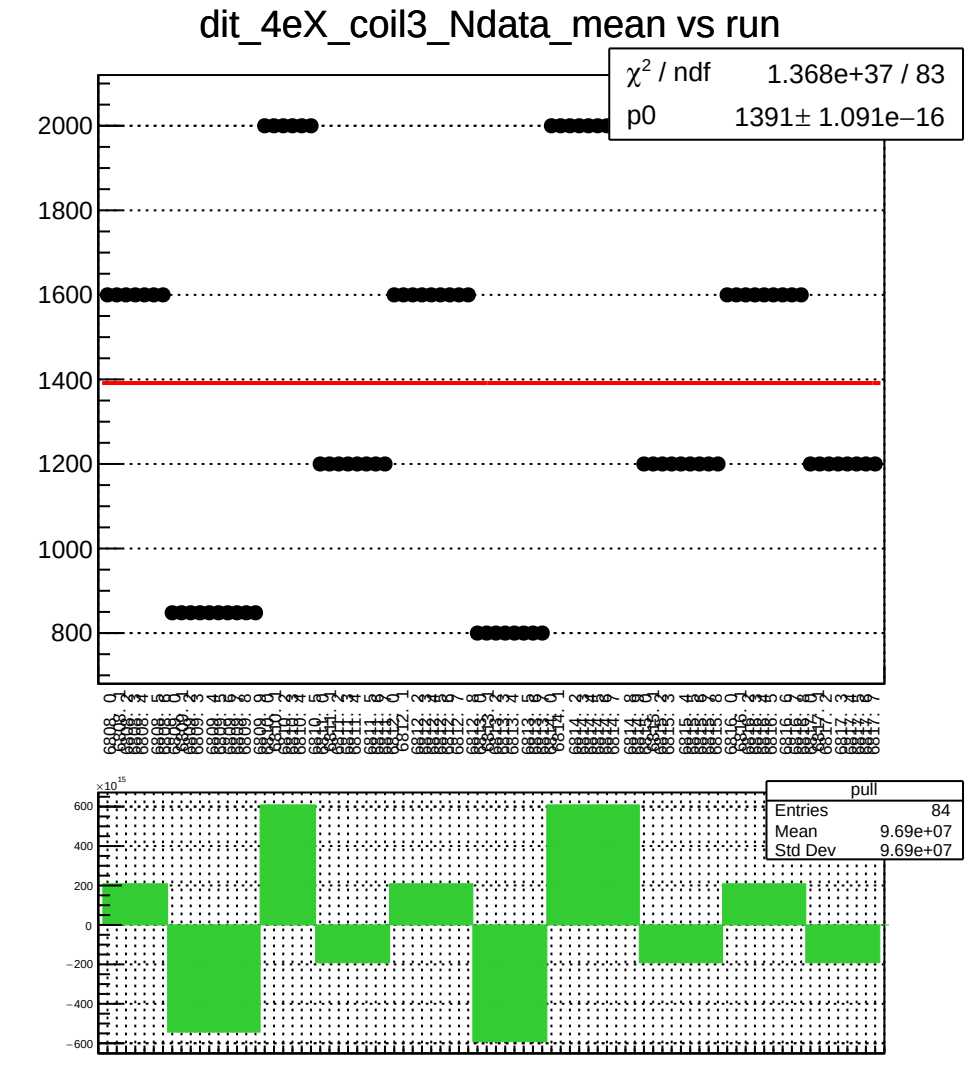

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

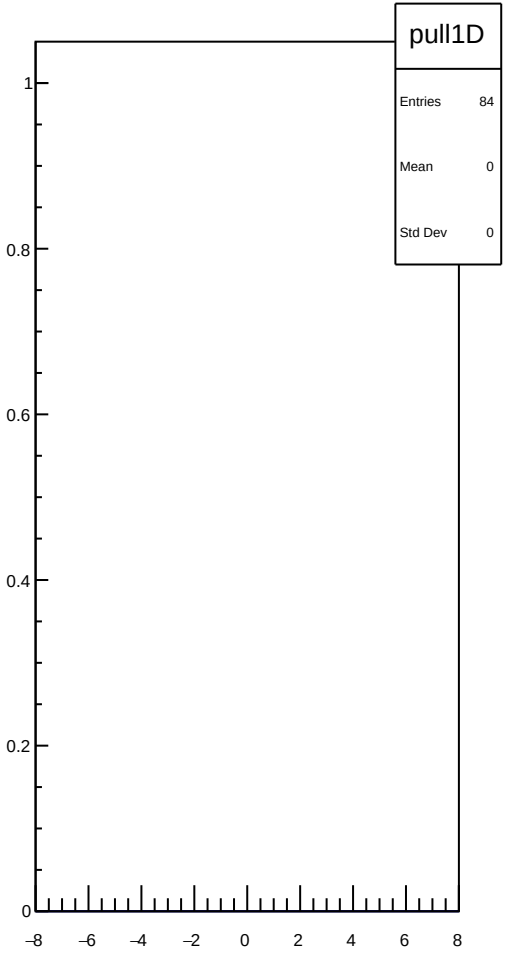

dit_4eX_coil3_mean vs run
χ² / ndf 1.102e+31 / 83
p0 −101.5 ± 1.091e−16
−100.8
−101
−101.2
−101.4
−101.6
−101.8
−102
−102.2
pull
Entries 84
Mean 1.552e+09
Std Dev 1.552e+09
×10¹²
600
400
200
0
−200
−400
−600

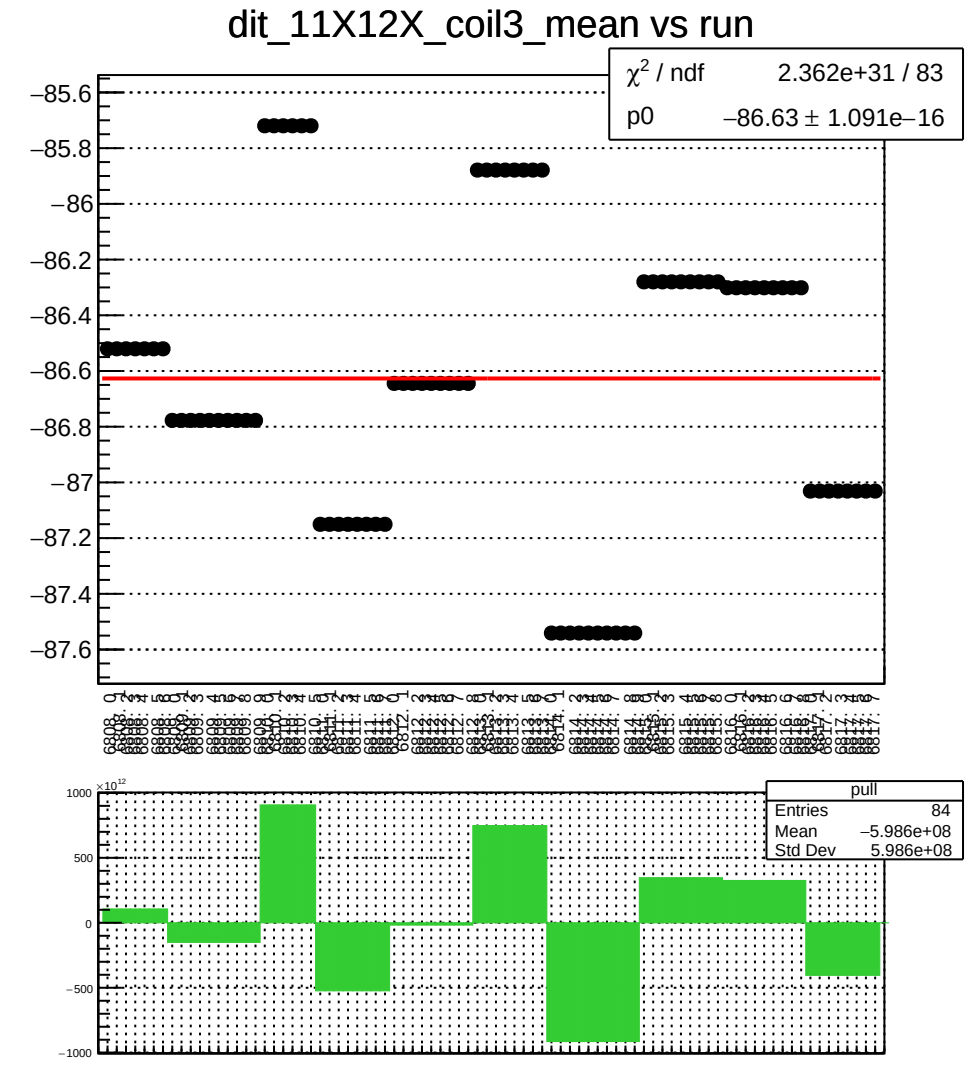

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

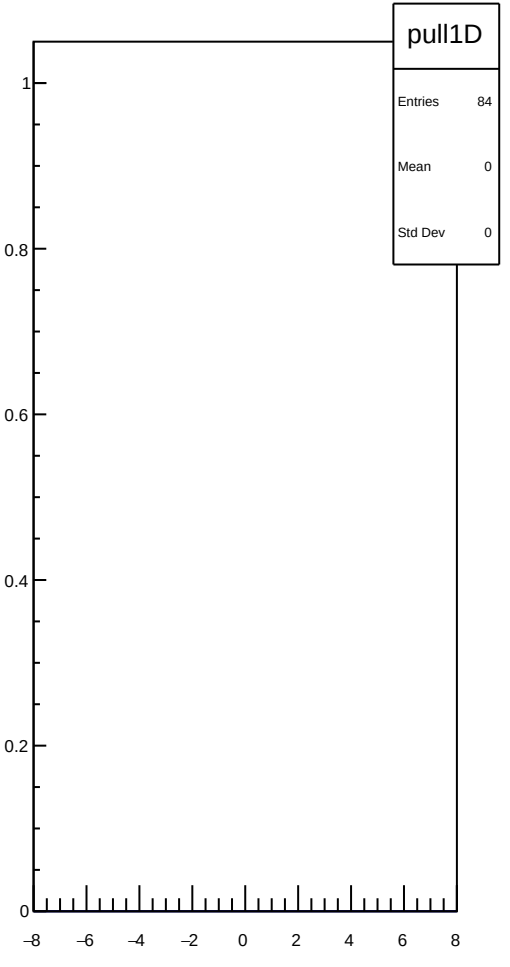

dit_4eX_coil3_err_mean vs run
χ² / ndf 8.986e+30 / 83
p0 2.141± 1.091e−16
2.6
2.4
2.2
2
1.8
×10¹²
400
200
0
−200
−400
pull
Entries 84
Mean 2.423e+08
Std Dev 2.423e+08

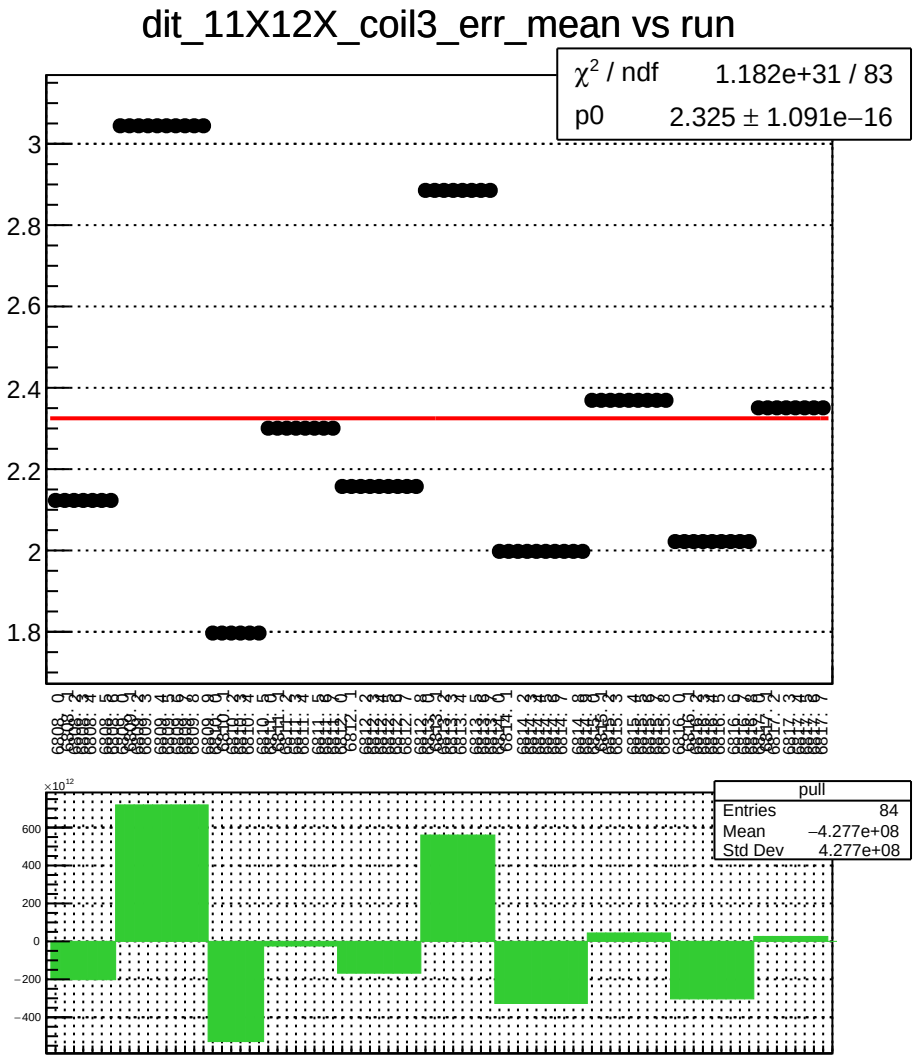

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

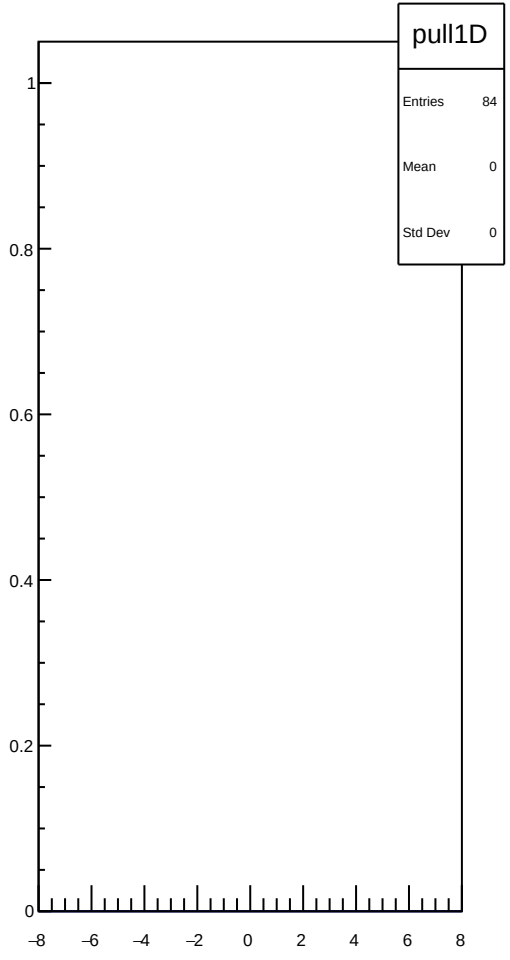

dit_4eX_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
×10¹⁵
600
400
200
0
−200
−400
−600
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07

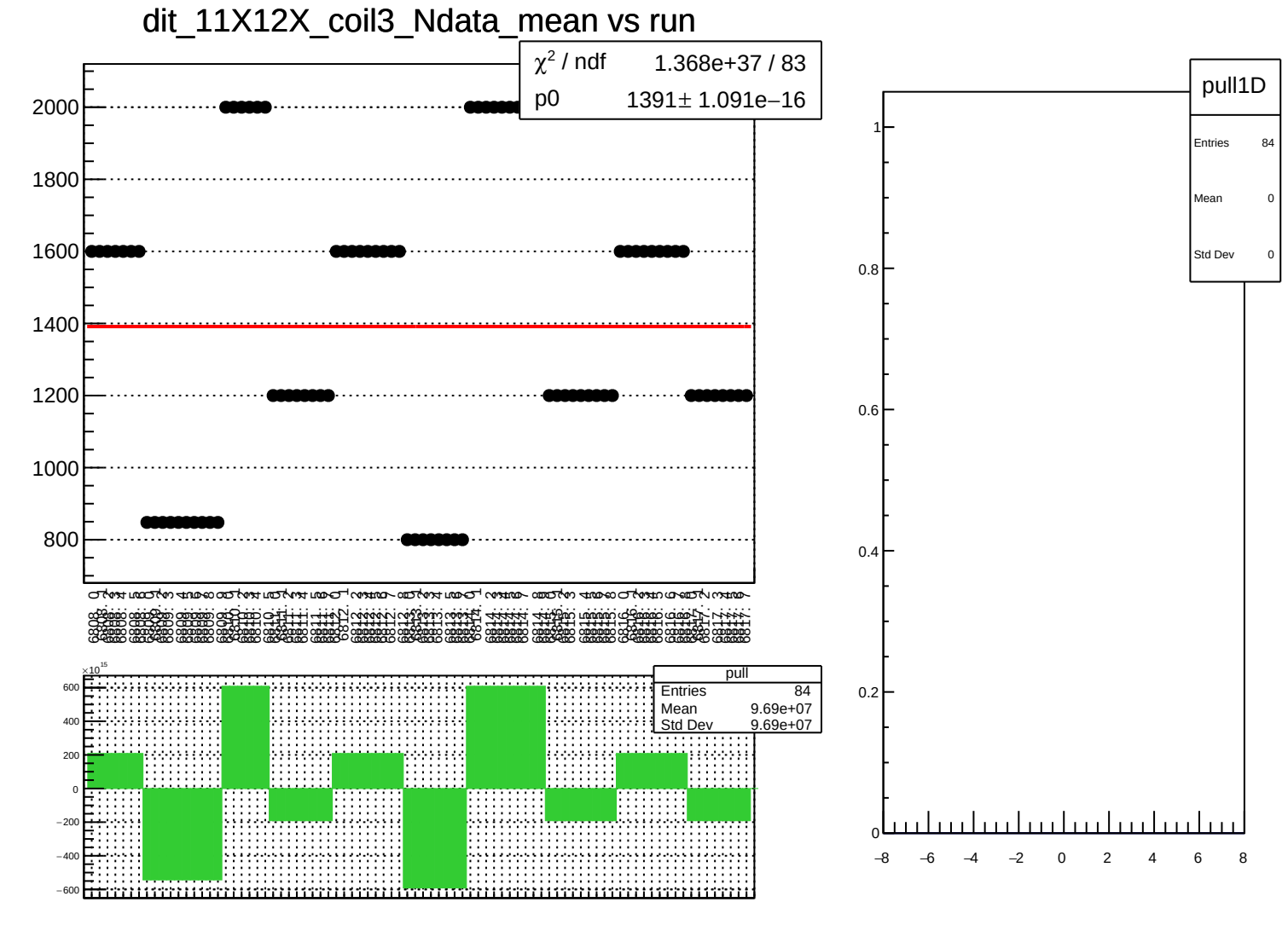

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

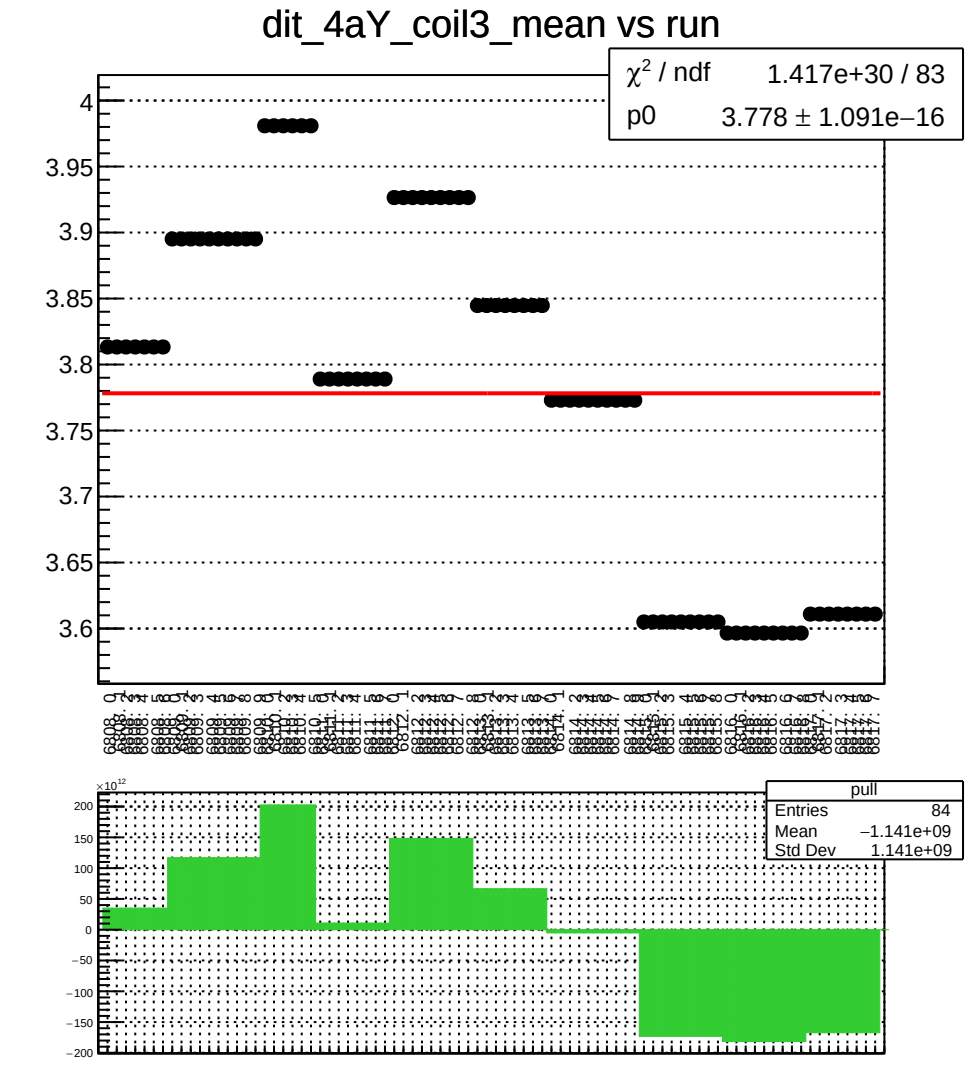

dit_11X12X_coil3_mean vs run
χ² / ndf 2.362e+31 / 83
p0 −86.63 ± 1.091e−16
−85.6
−85.8
−86
−86.2
−86.4
−86.6
−86.8
−87
−87.2
−87.4
−87.6
×10¹²
1000
500
0
−500
−1000
pull
Entries 84
Mean −5.986e+08
Std Dev 5.986e+08

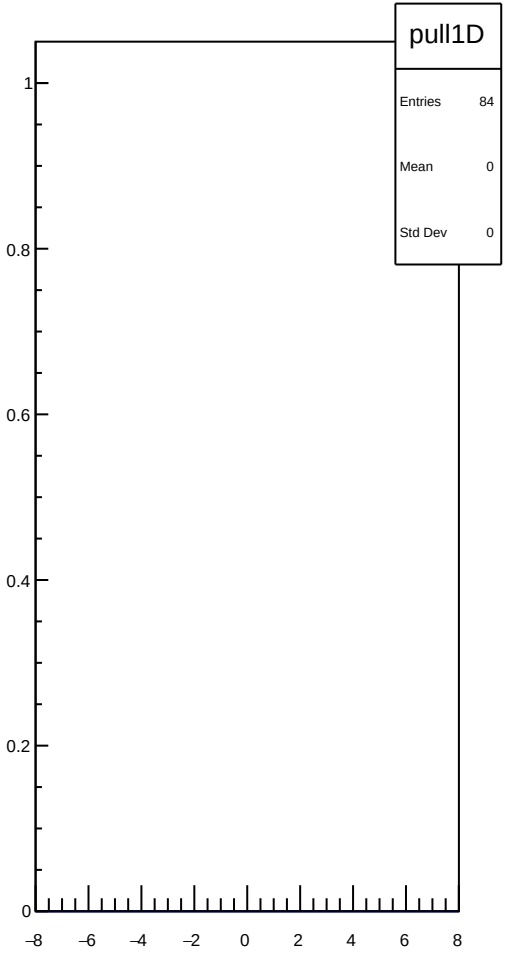

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

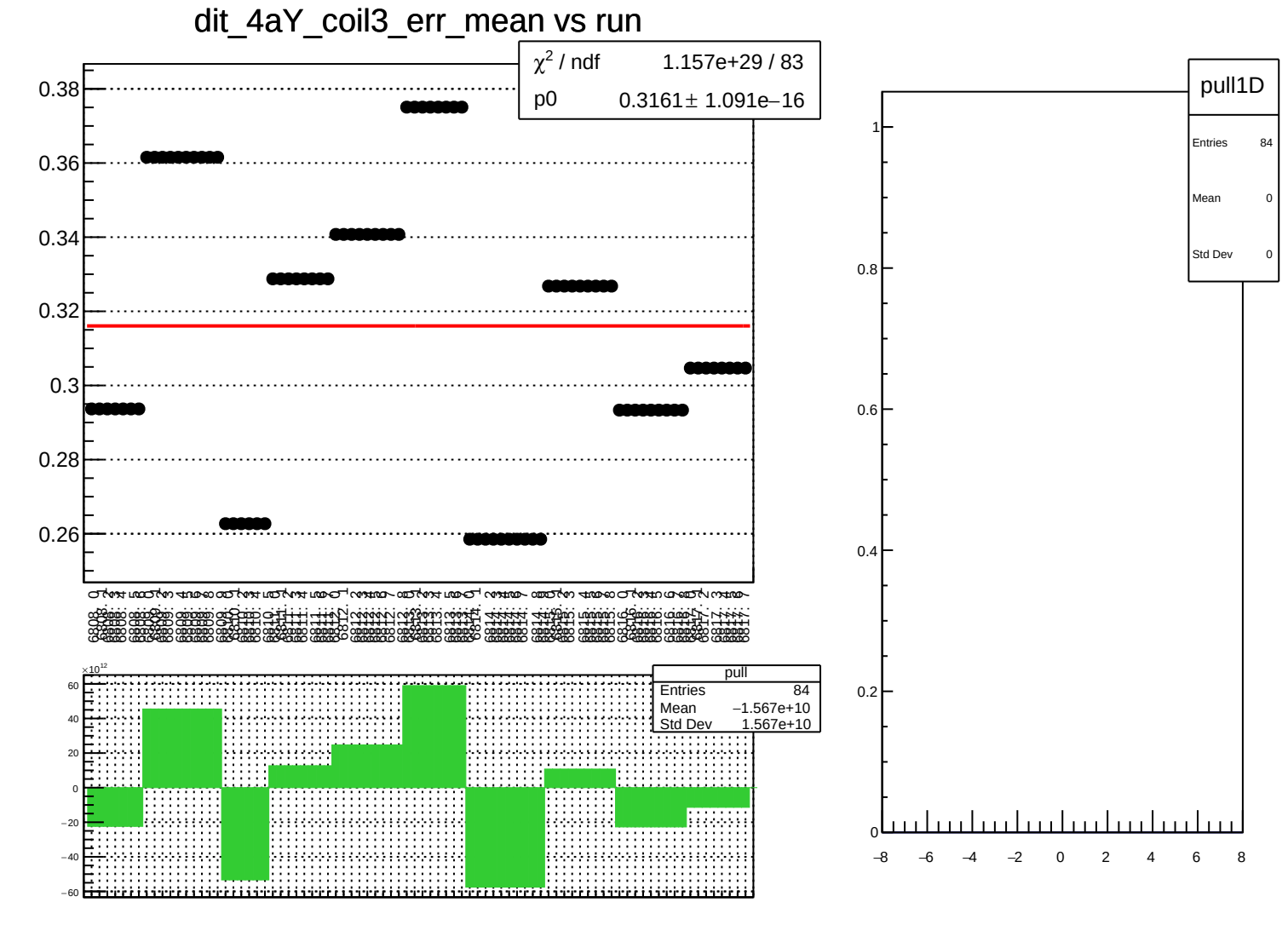

dit_11X12X_coil3_err_mean vs run
χ² / ndf 1.182e+31 / 83
p0 2.325 ± 1.091e−16
pull
Entries 84
Mean −4.277e+08
Std Dev 4.277e+08
×10¹²

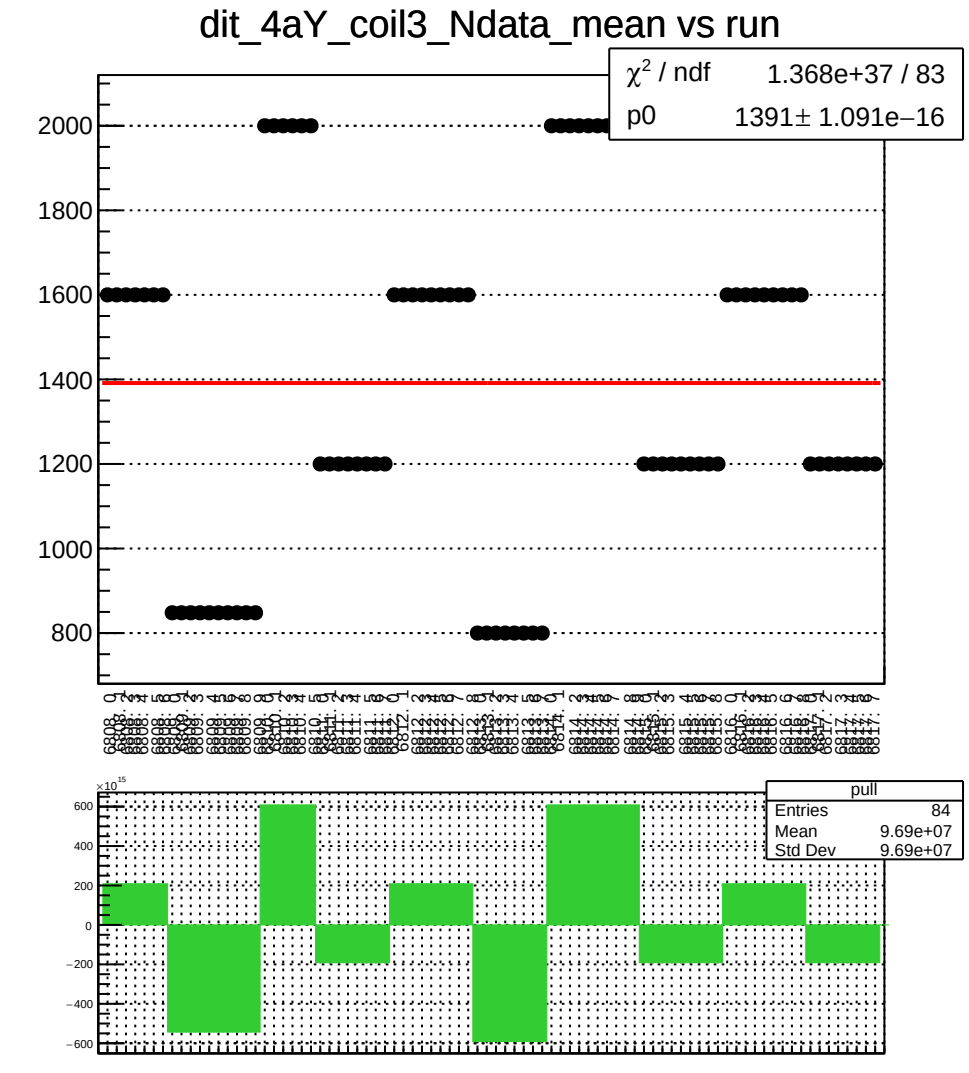

pull1D
Entries 84
Mean 0
Std Dev 0

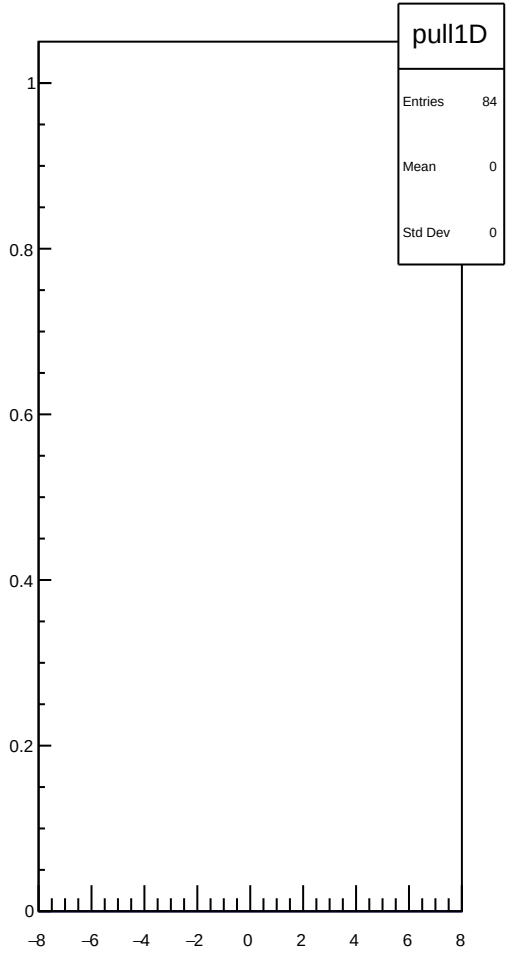

dit_11X12X_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
×10¹⁵
600
400
200
0
−200
−400
−600
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

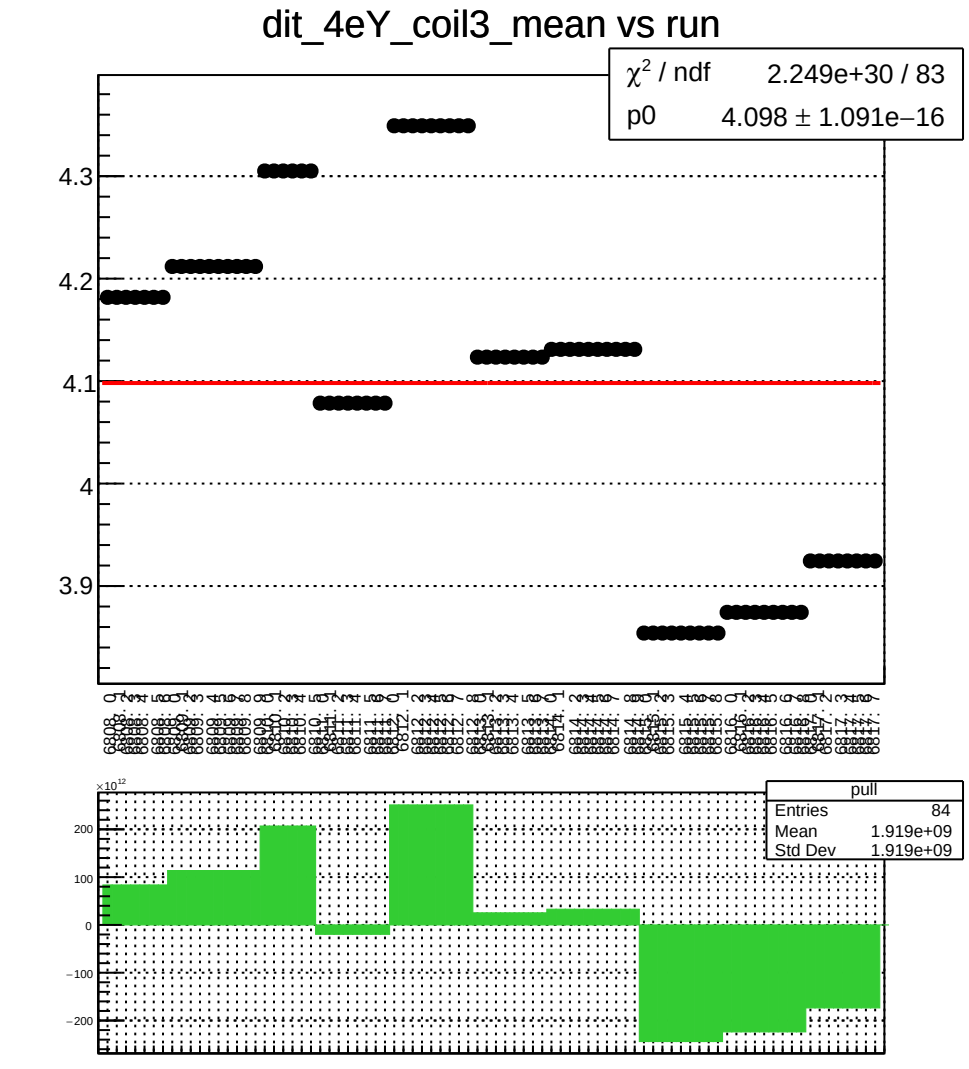

dit_4aY_coil3_mean vs run
χ² / ndf 1.417e+30 / 83
p0 3.778 ± 1.091e−16
4
3.95
3.9
3.85
3.8
3.75
3.7
3.65
3.6
×10¹²
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 84
Mean −1.141e+09
Std Dev 1.141e+09

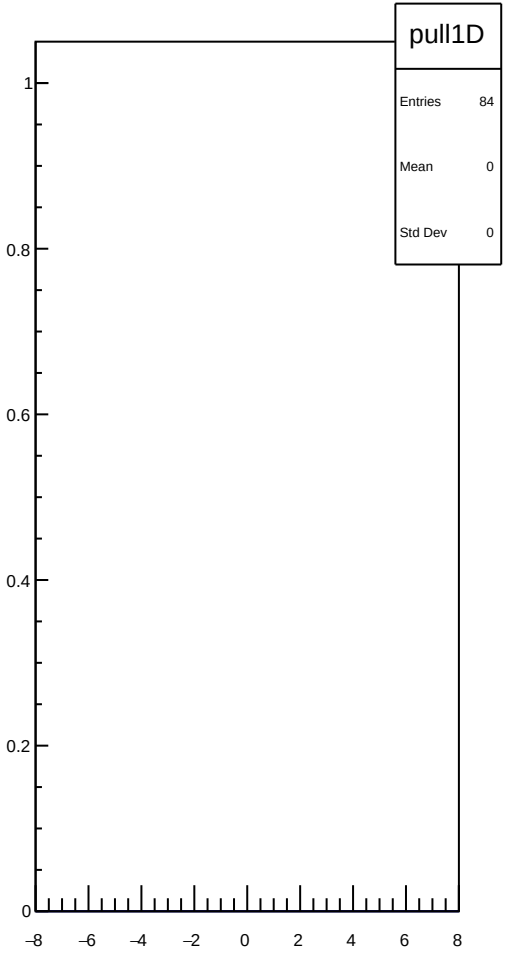

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

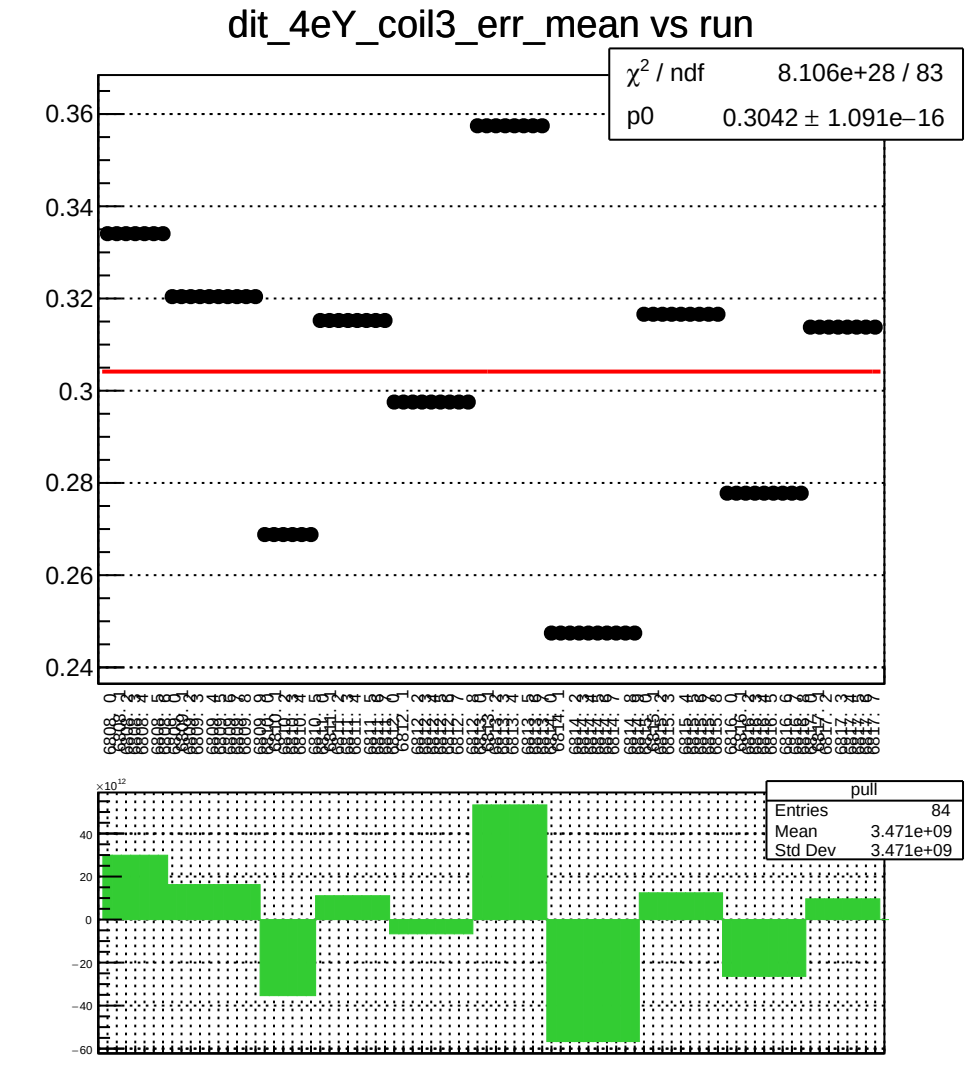

dit_4aY_coil3_err_mean vs run
χ² / ndf 1.157e+29 / 83
p0 0.3161 ± 1.091e−16
0.38
0.36
0.34
0.32
0.3
0.28
0.26
×10¹²
60
40
20
0
−20
−40
−60
pull
Entries 84
Mean −1.567e+10
Std Dev 1.567e+10
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

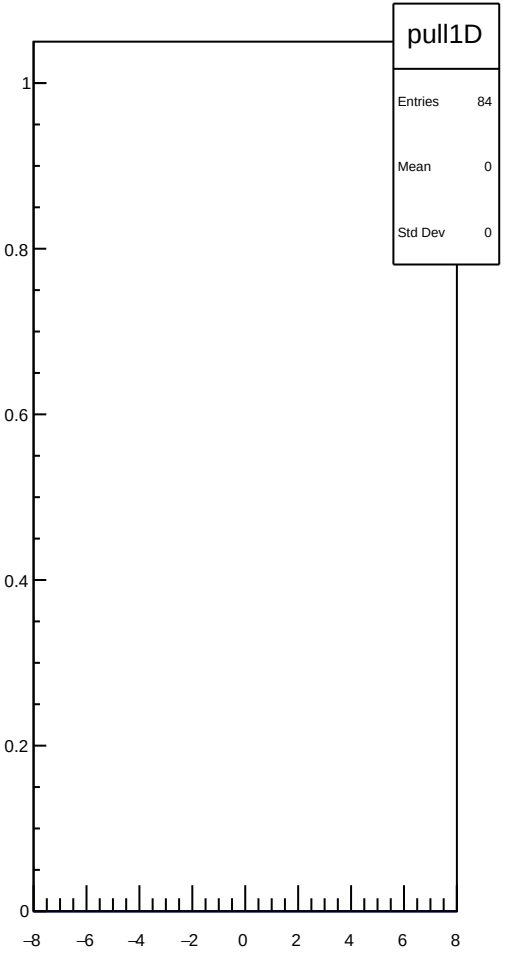

dit_4aY_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
×10¹⁵
600
400
200
0
−200
−400
−600
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07

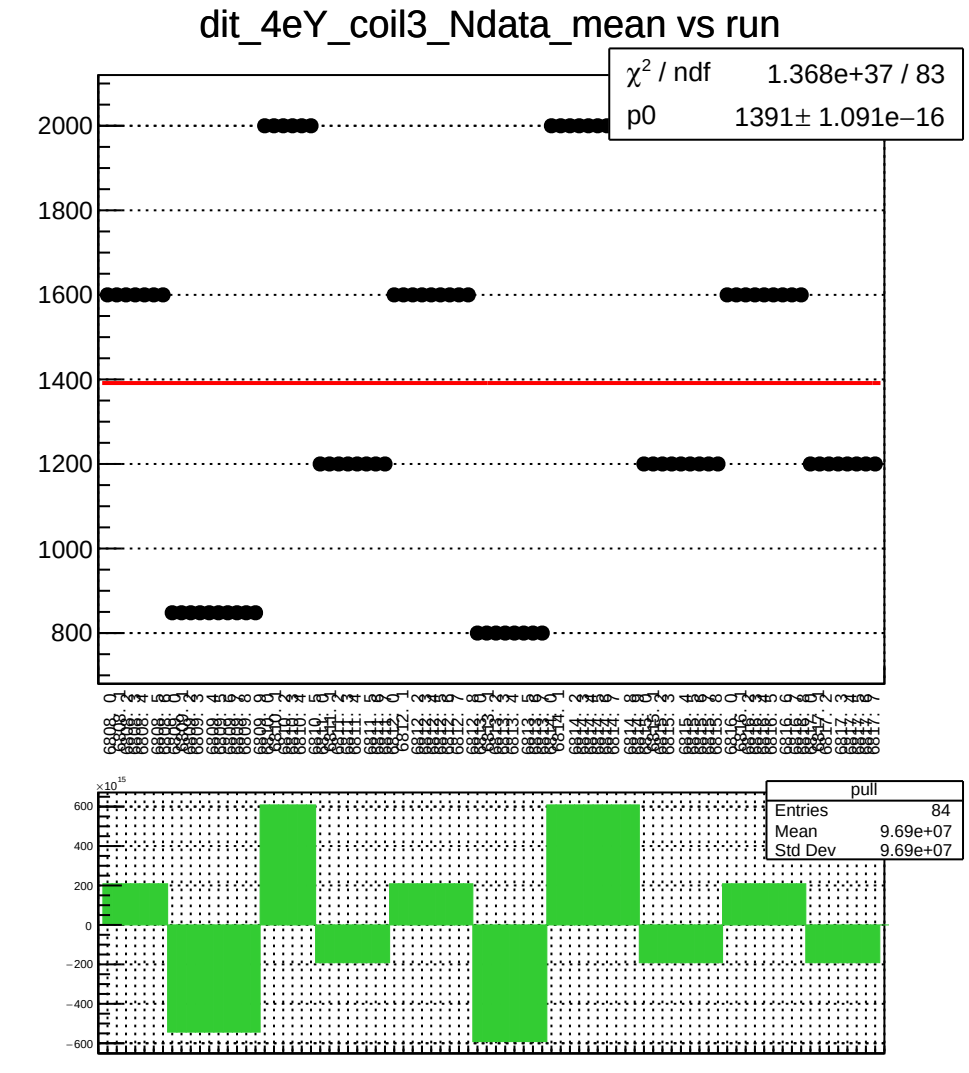

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

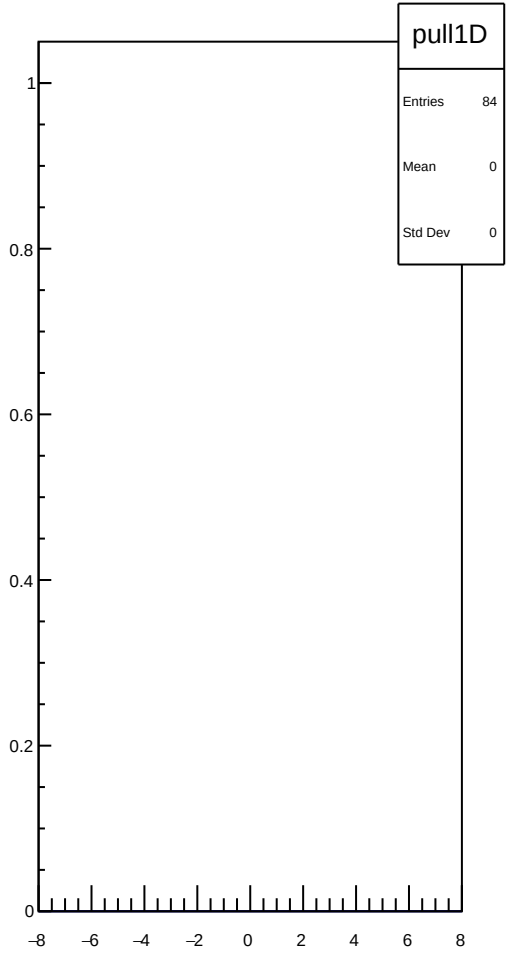

dit_4eY_coil3_mean vs run
χ² / ndf 2.249e+30 / 83
p0 4.098 ± 1.091e−16
4.3
4.2
4.1
4
3.9
×10¹²
200
100
0
−100
−200
pull
Entries 84
Mean 1.919e+09
Std Dev 1.919e+09

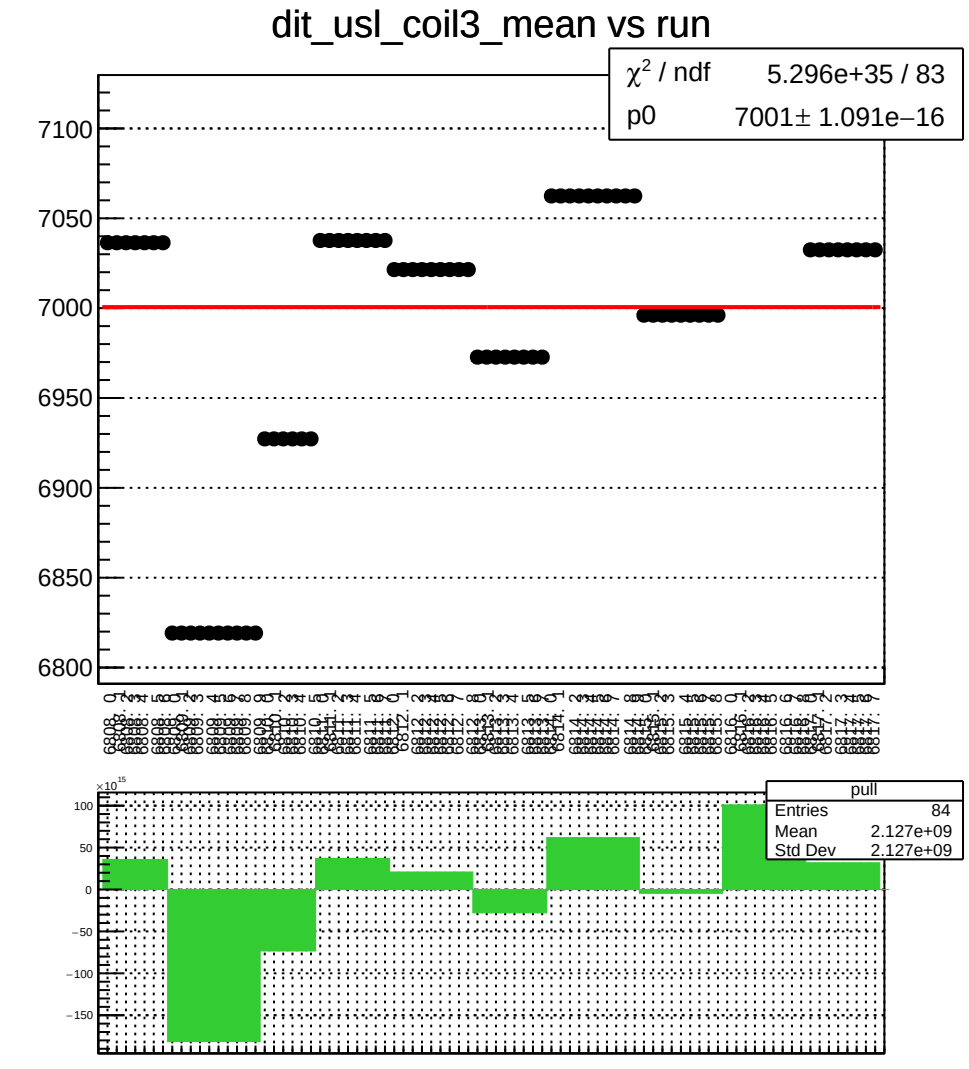

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

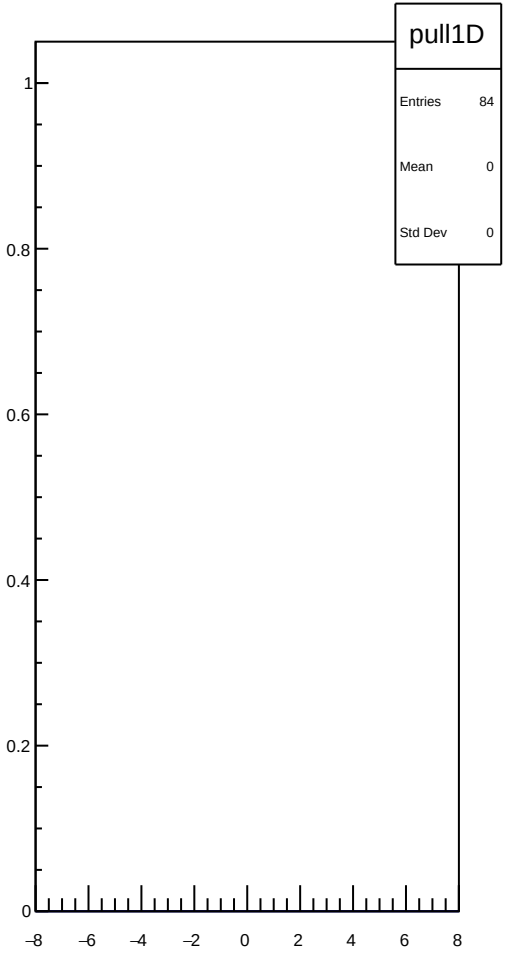

dit_4eY_coil3_err_mean vs run
χ² / ndf 8.106e+28 / 83
p0 0.3042 ± 1.091e−16
0.36
0.34
0.32
0.3
0.28
0.26
0.24
×10¹²
40
20
0
−20
−40
−60
pull
Entries 84
Mean 3.471e+09
Std Dev 3.471e+09

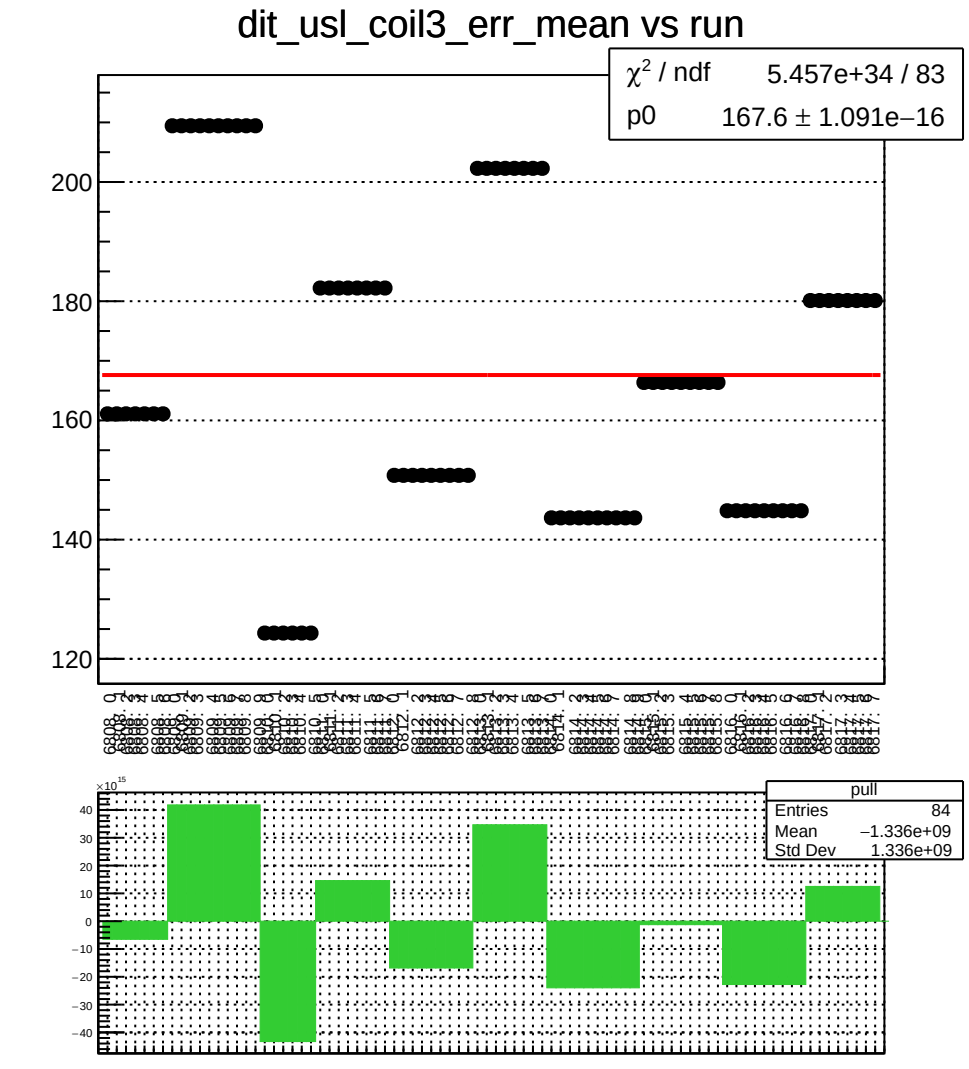

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

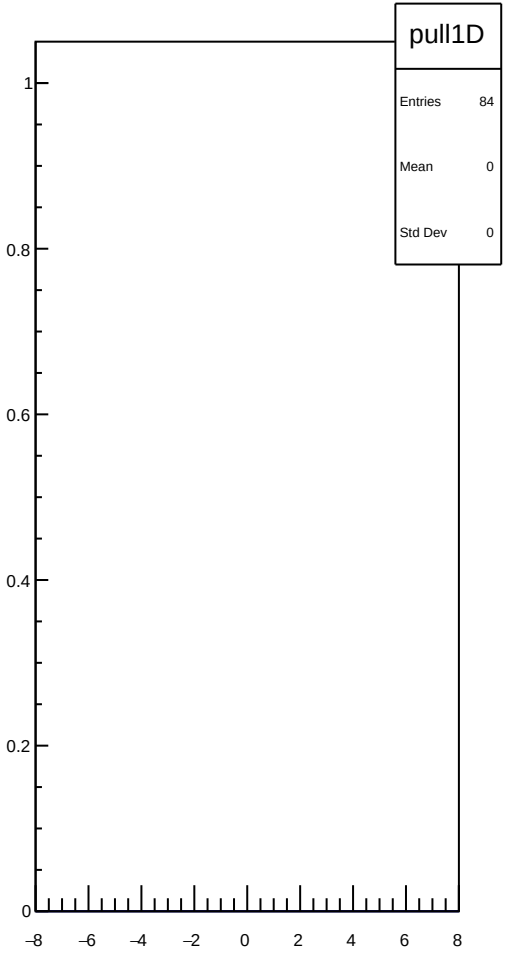

dit_4eY_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
×10¹⁵
600
400
200
0
−200
−400
−600
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07

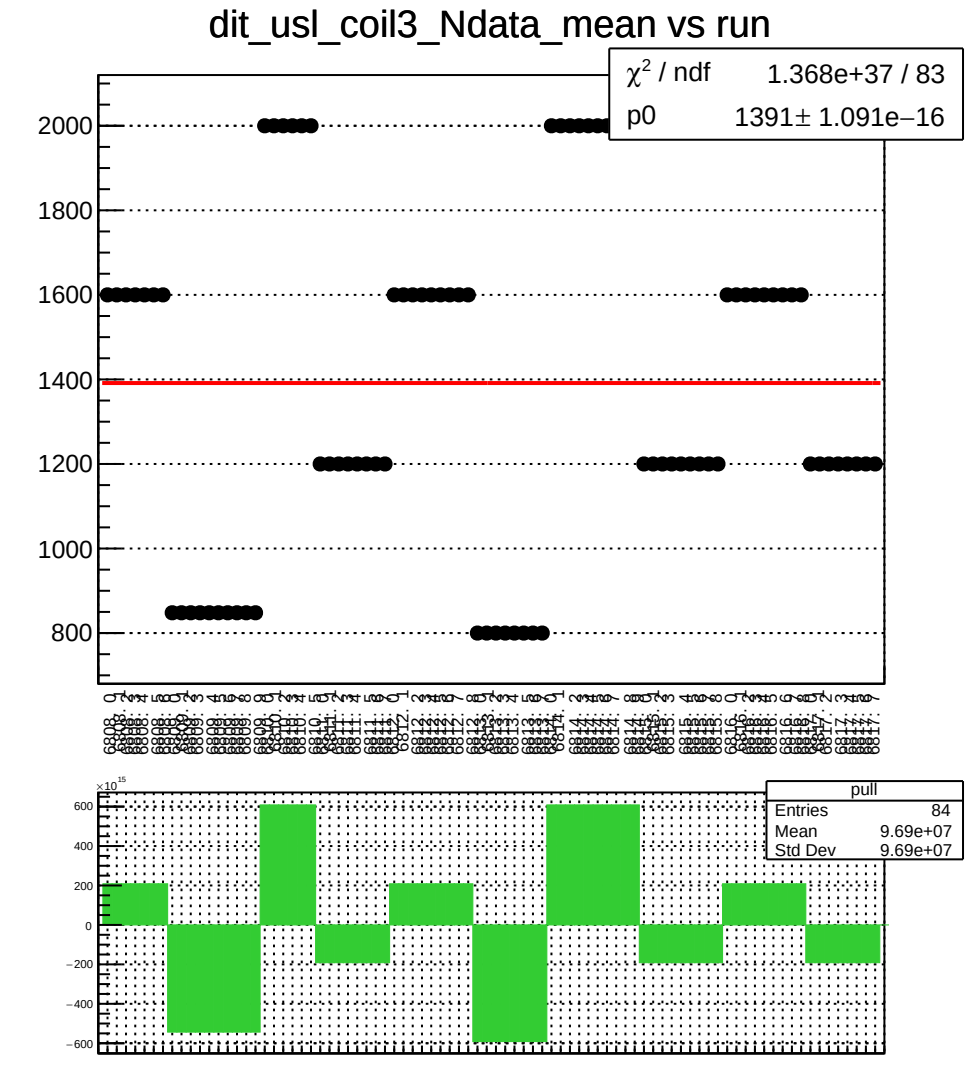

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

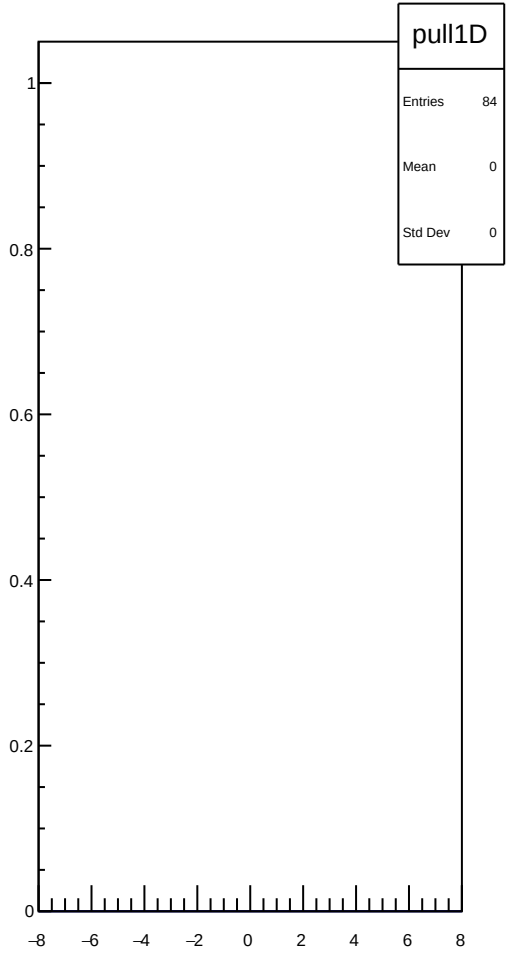

dit_usl_coil3_mean vs run
χ² / ndf 5.296e+35 / 83
p0 7001± 1.091e−16
7100
7050
7000
6950
6900
6850
6800
pull
Entries 84
Mean 2.127e+09
Std Dev 2.127e+09
×10¹⁵
100
50
0
−50
−100
−150

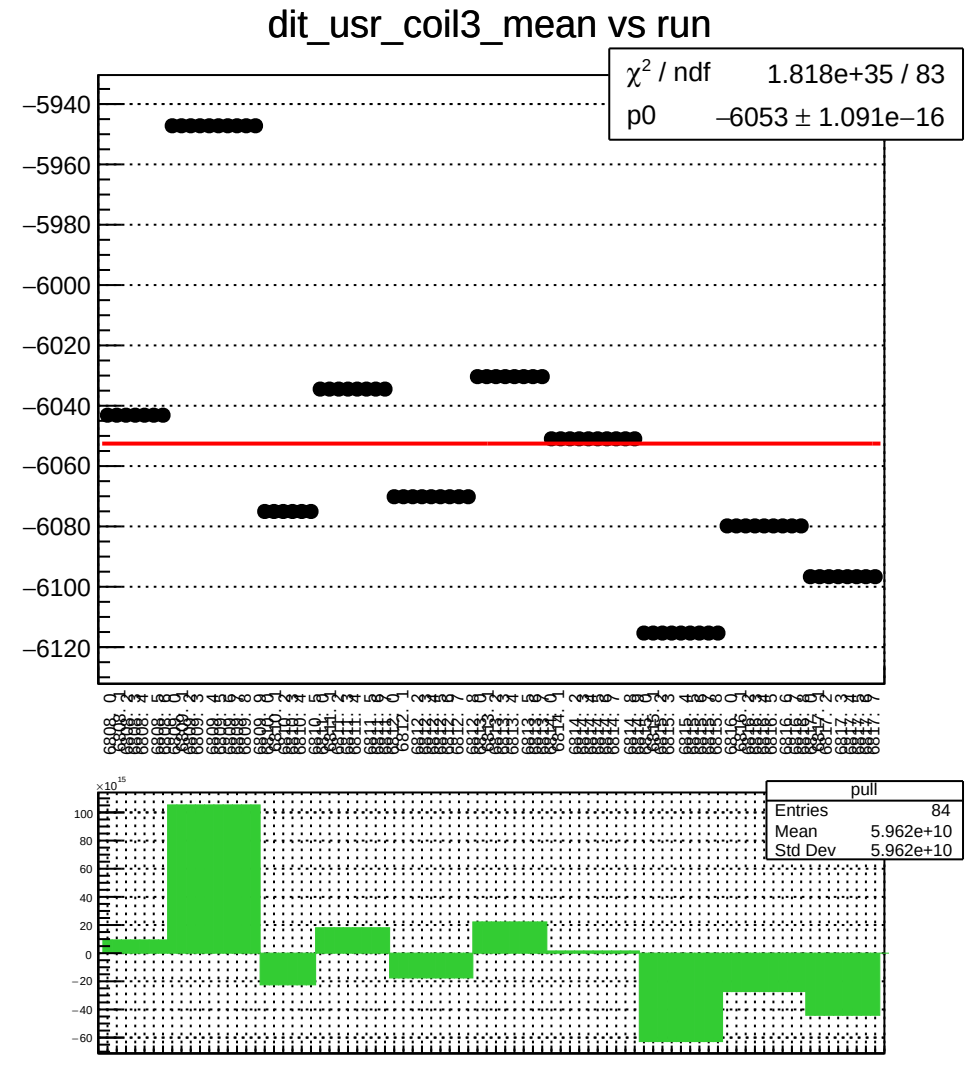

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

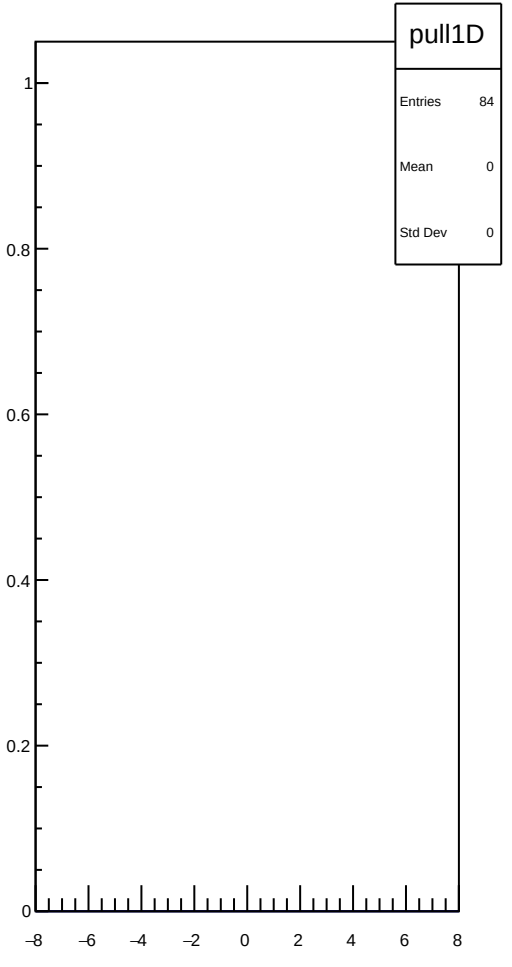

dit_usl_coil3_err_mean vs run
χ² / ndf 5.457e+34 / 83
p0 167.6 ± 1.091e−16
200
180
160
140
120
pull
Entries 84
Mean −1.336e+09
Std Dev 1.336e+09
×10¹⁵
40
30
20
10
0
−10
−20
−30
−40

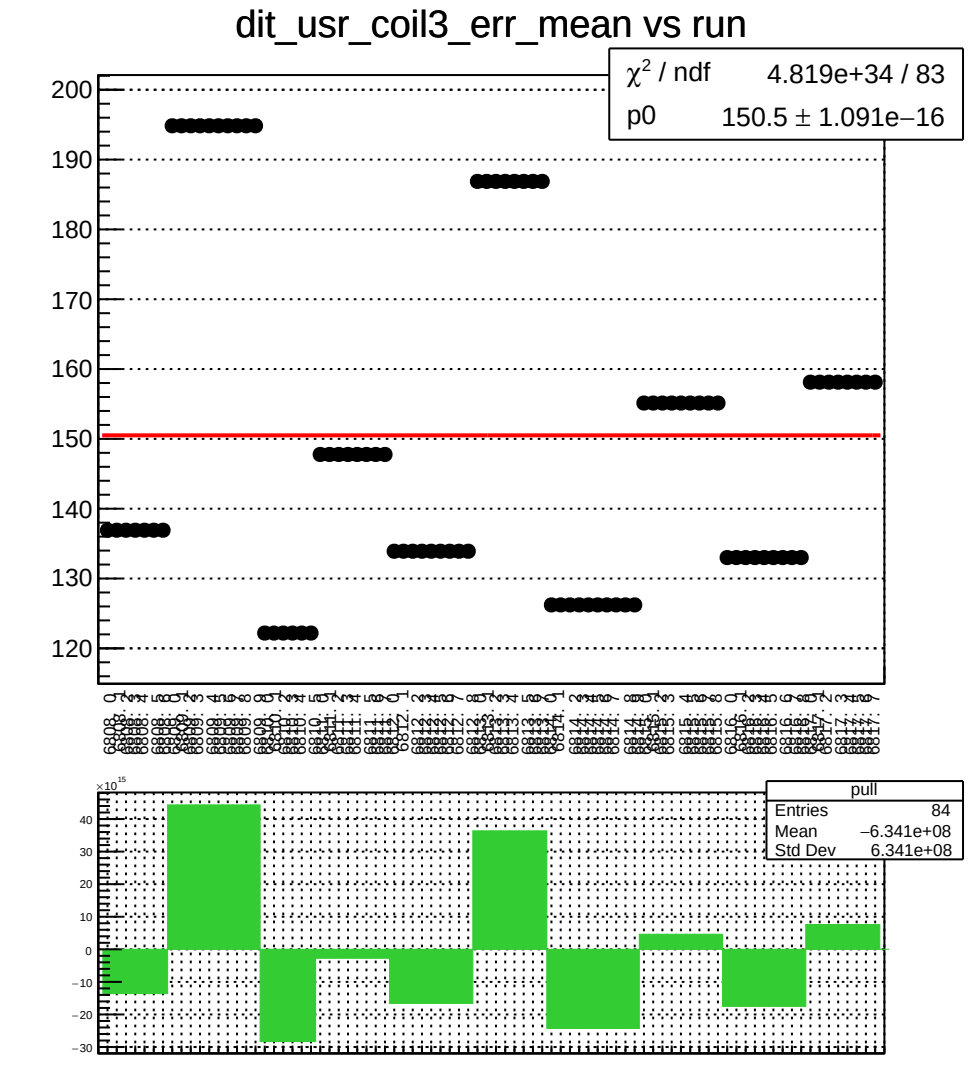

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

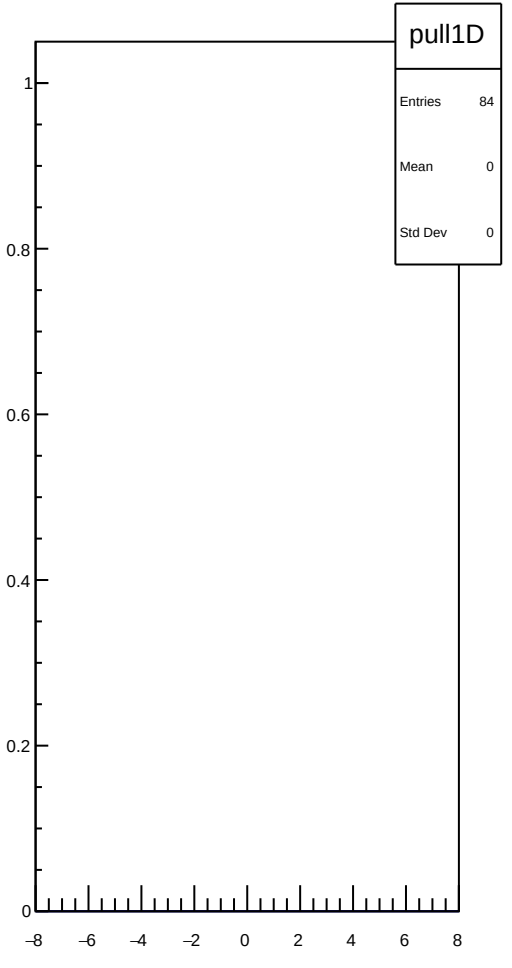

dit_usl_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
×10¹⁵
600
400
200
0
−200
−400
−600
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07

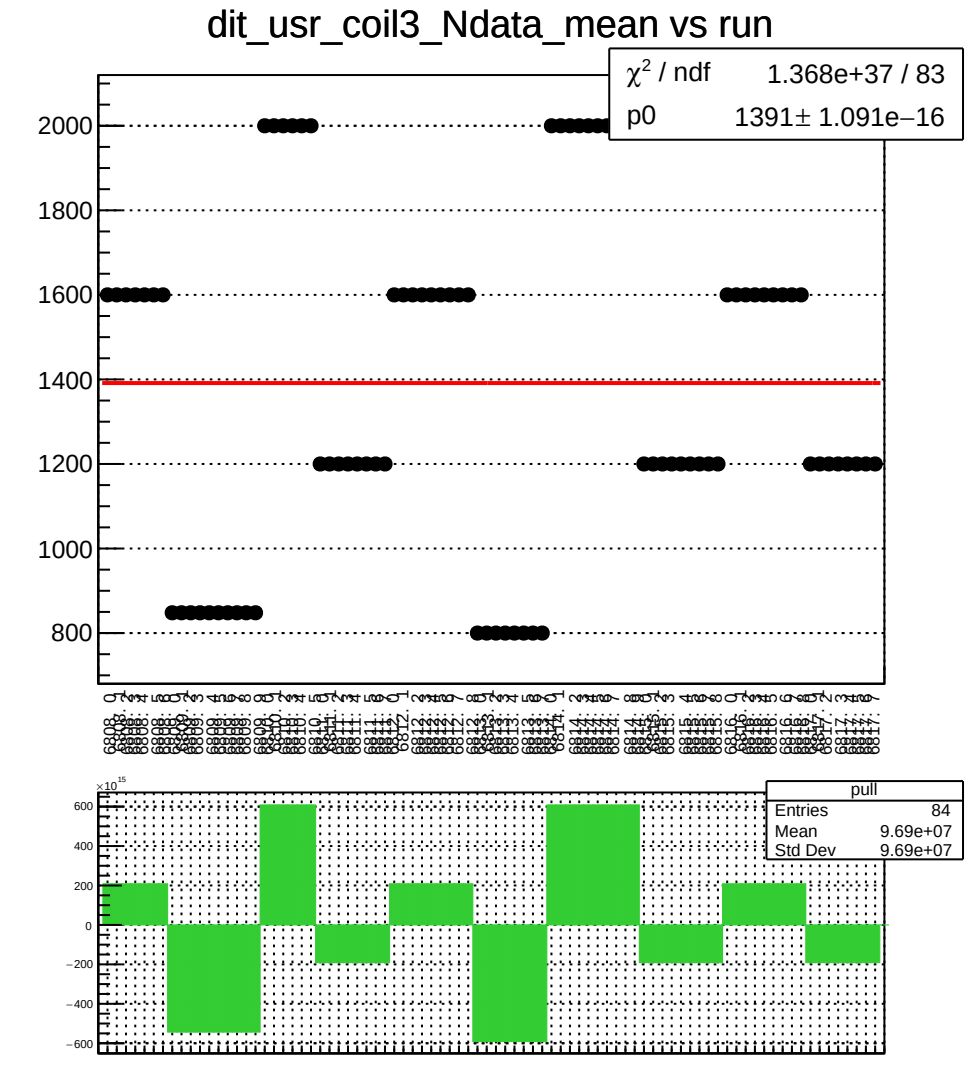

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

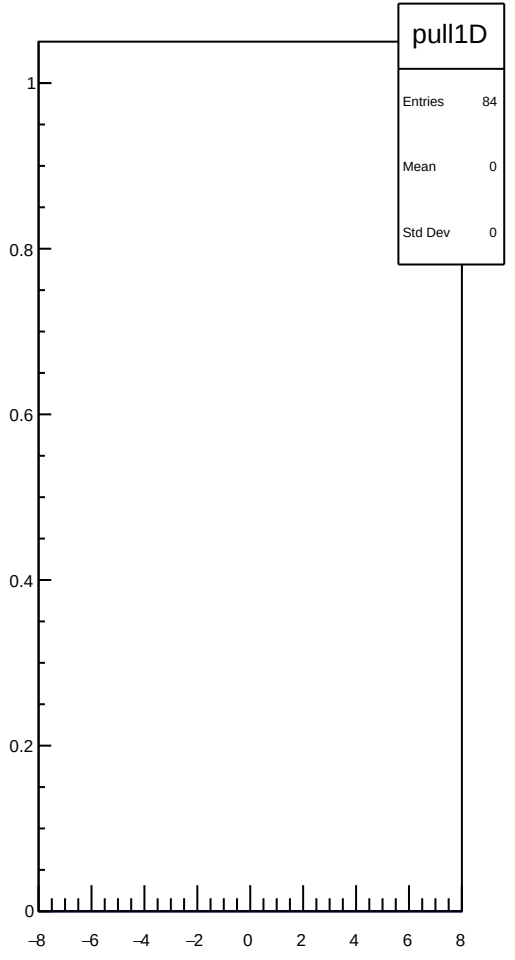

dit_usr_coil3_mean vs run
χ² / ndf 1.818e+35 / 83
p0 −6053 ± 1.091e−16
−5940
−5960
−5980
−6000
−6020
−6040
−6060
−6080
−6100
−6120
×10¹⁵
100
80
60
40
20
0
−20
−40
−60
pull
Entries 84
Mean 5.962e+10
Std Dev 5.962e+10

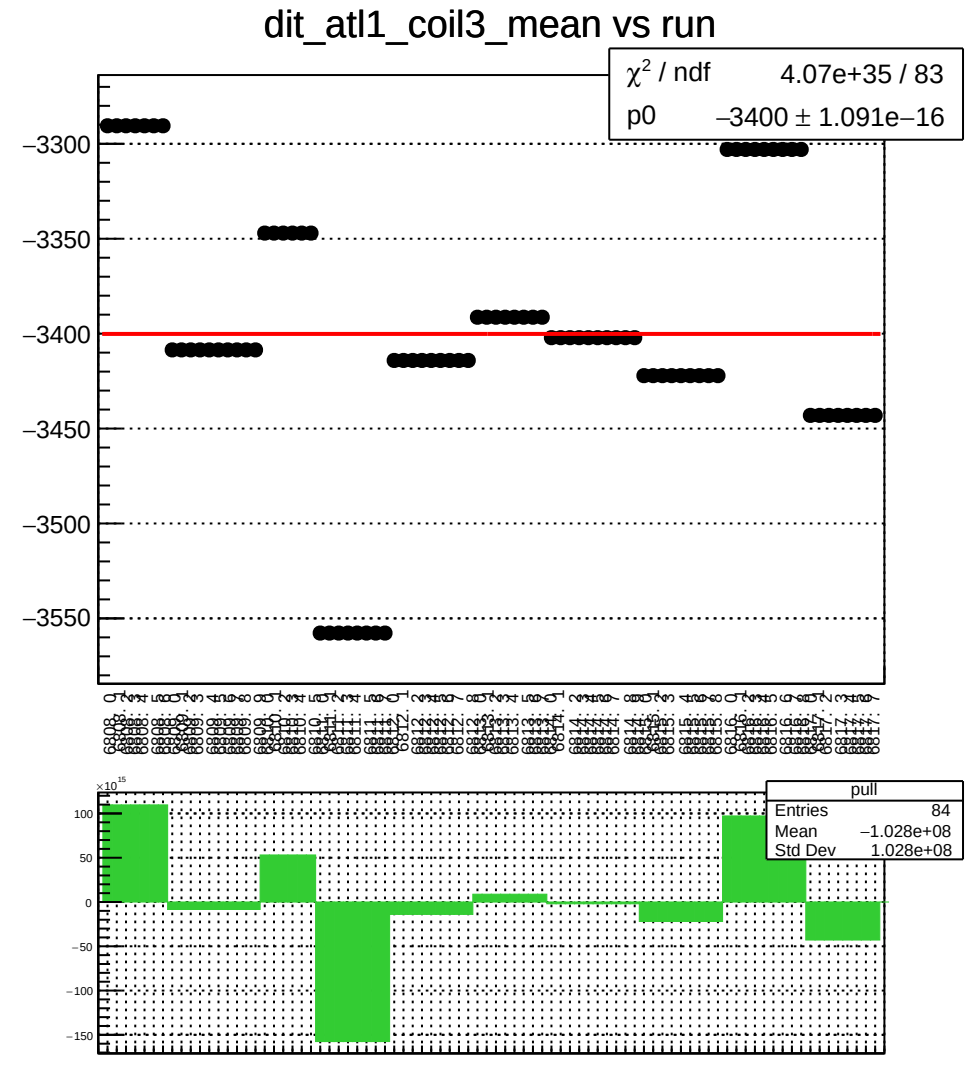

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

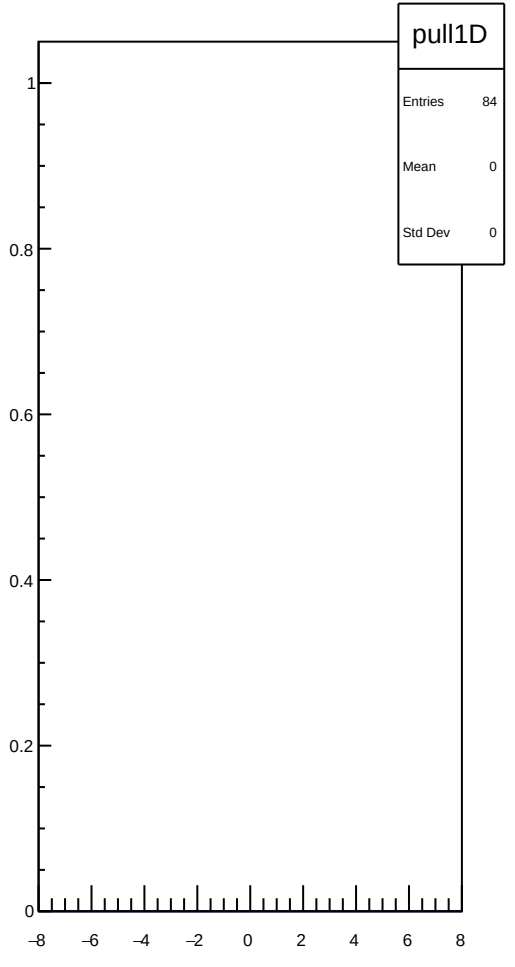

dit_usr_coil3_err_mean vs run
χ² / ndf 4.819e+34 / 83
p0 150.5 ± 1.091e−16
200
190
180
170
160
150
140
130
120
×10¹⁵
40
30
20
10
0
−10
−20
−30
pull
Entries 84
Mean −6.341e+08
Std Dev 6.341e+08

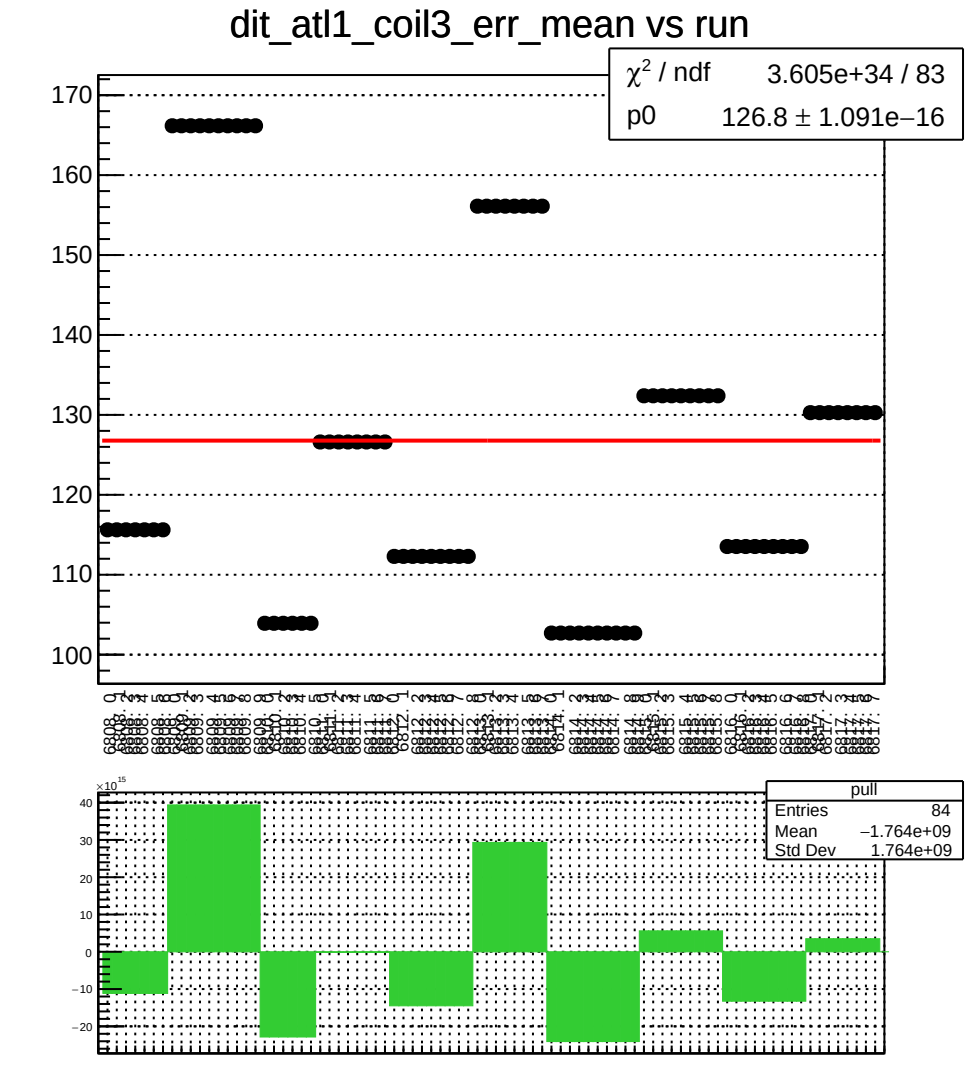

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

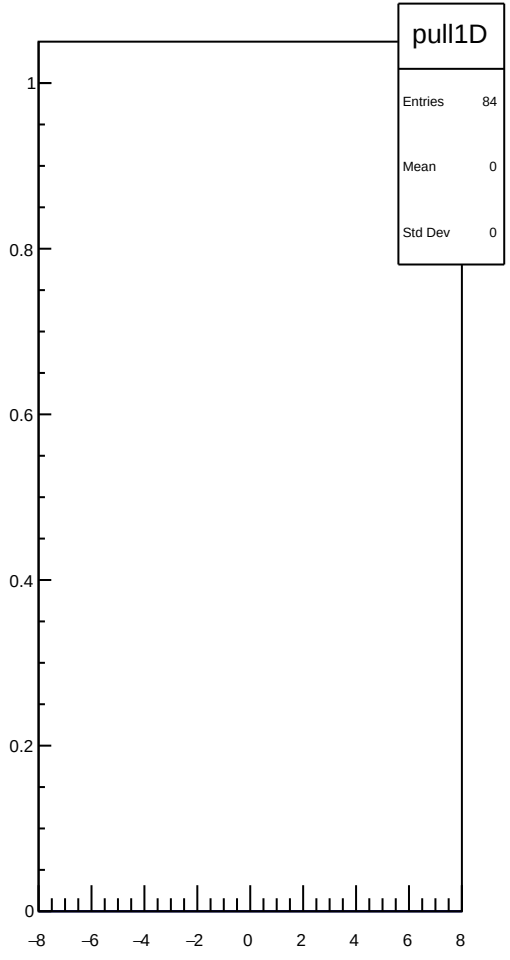

dit_usr_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
×10¹⁵
600
400
200
0
−200
−400
−600
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07

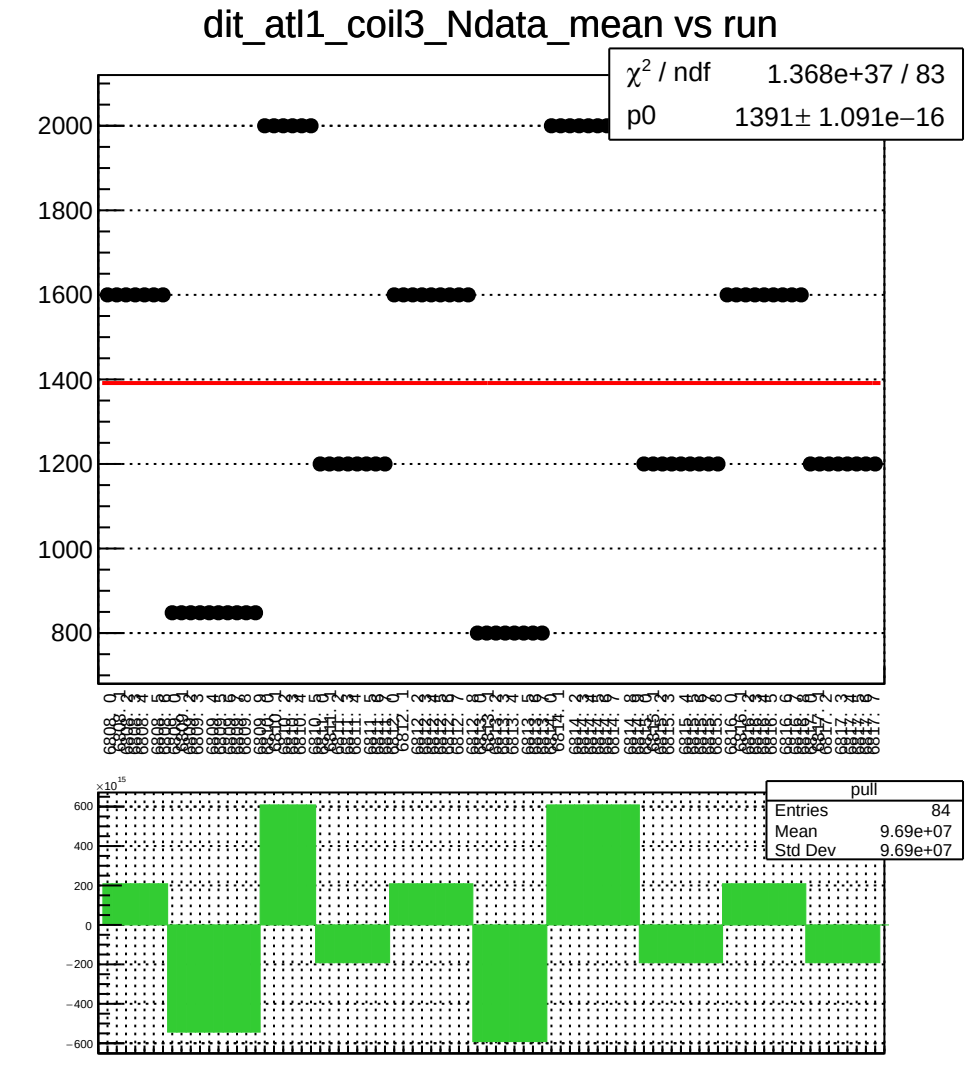

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

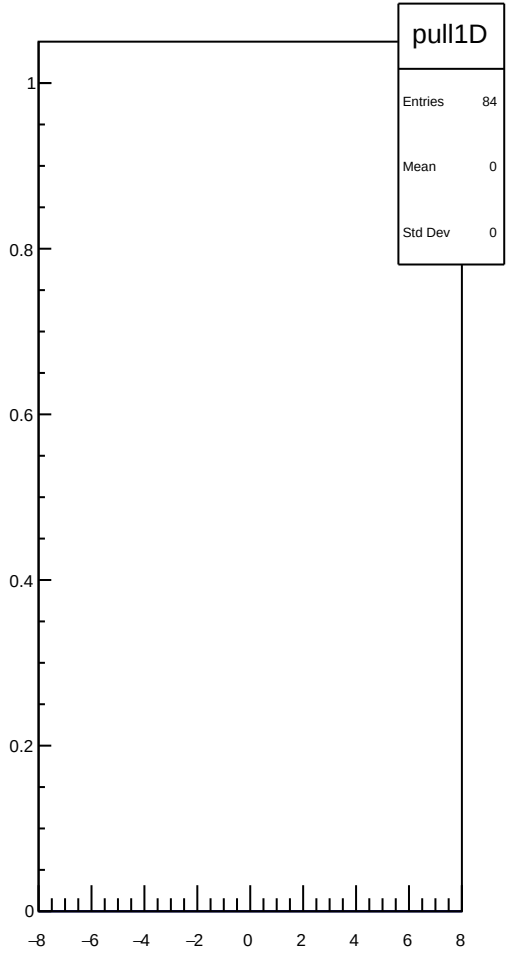

dit_atl1_coil3_mean vs run
χ² / ndf 4.07e+35 / 83
p0 −3400 ± 1.091e−16
−3300
−3350
−3400
−3450
−3500
−3550
pull
Entries 84
Mean −1.028e+08
Std Dev 1.028e+08
×10¹⁵
100
50
0
−50
−100
−150

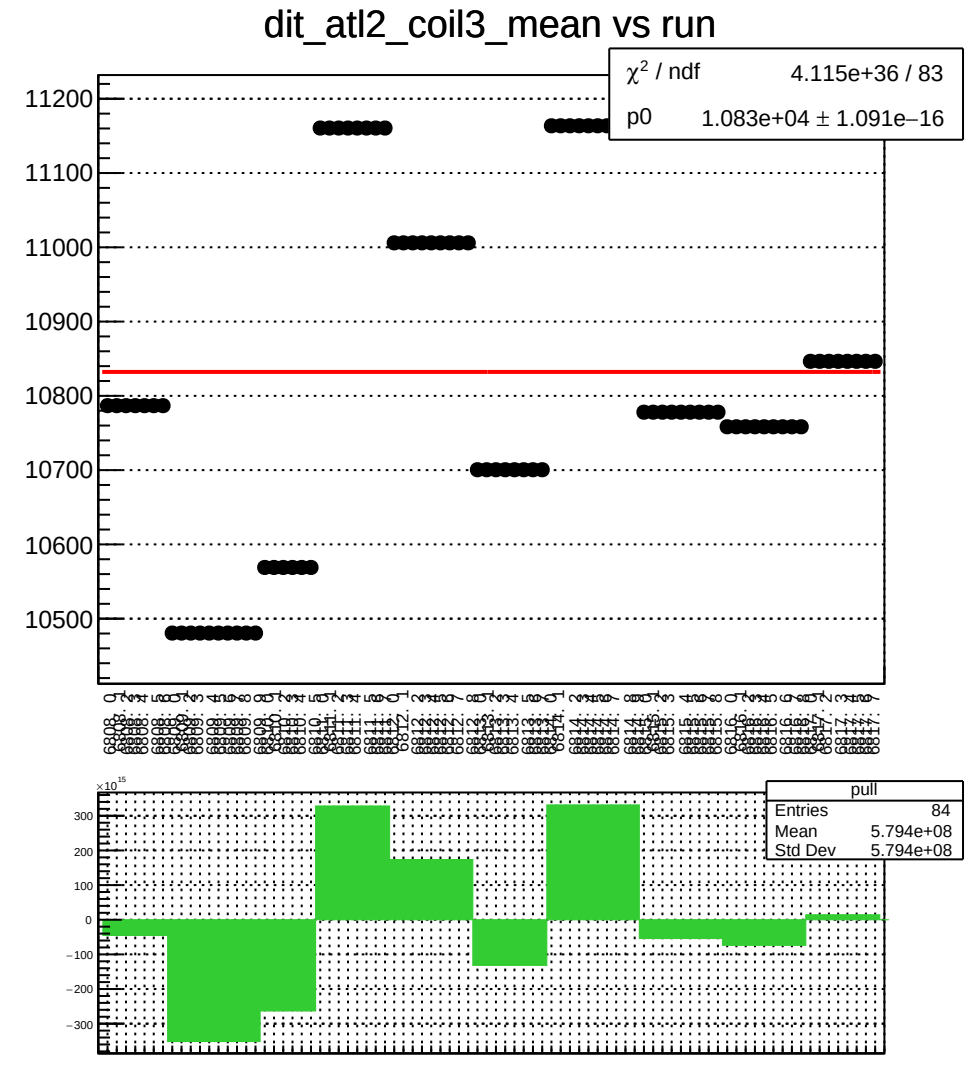

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

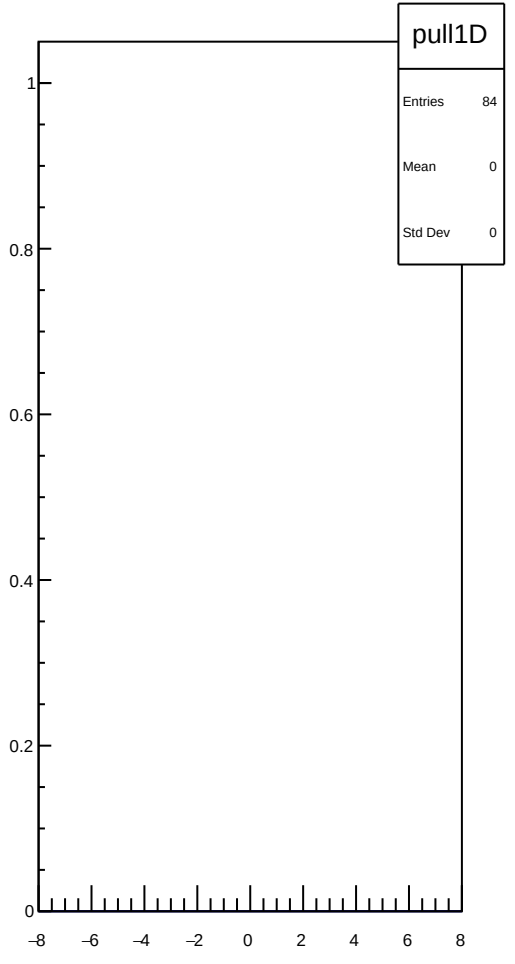

dit_atl1_coil3_err_mean vs run
χ² / ndf 3.605e+34 / 83
p0 126.8 ± 1.091e−16
pull
Entries 84
Mean −1.764e+09
Std Dev 1.764e+09

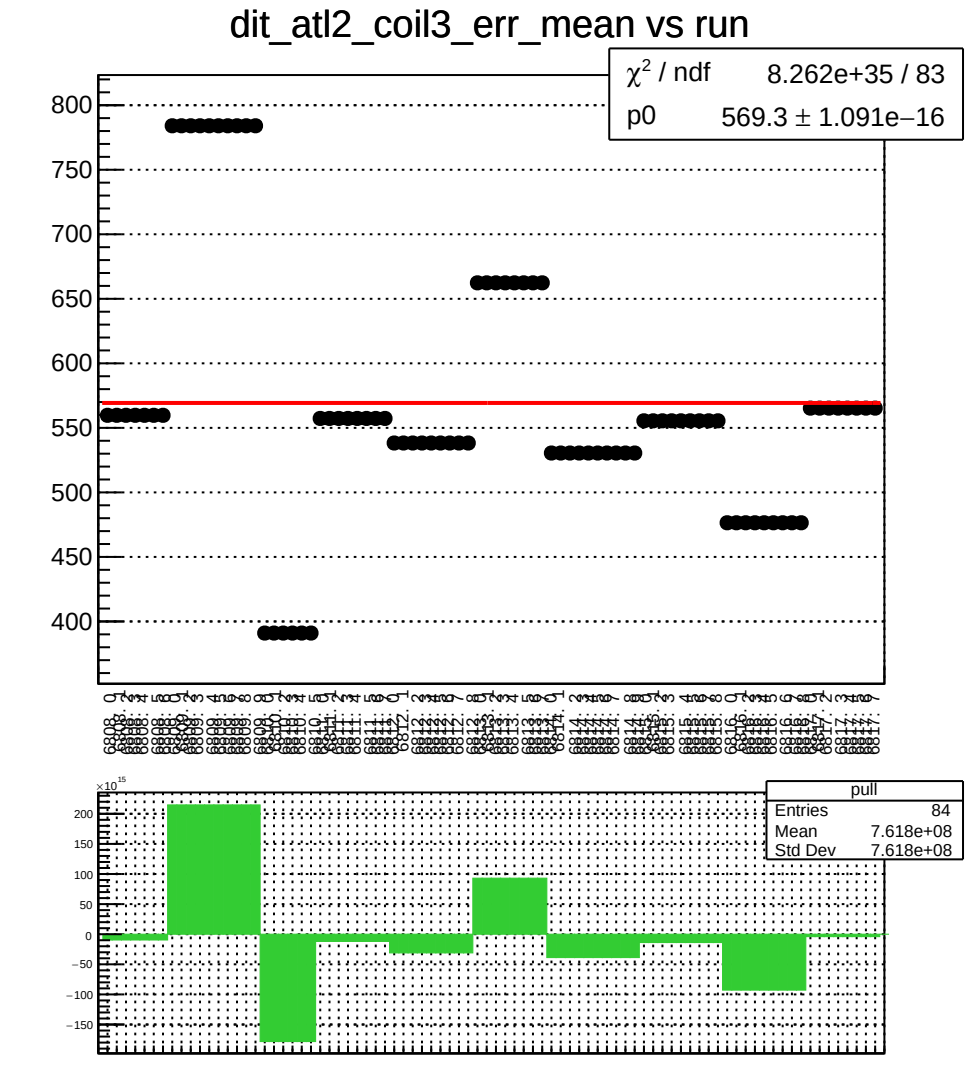

pull1D
Entries 84
Mean 0
Std Dev 0

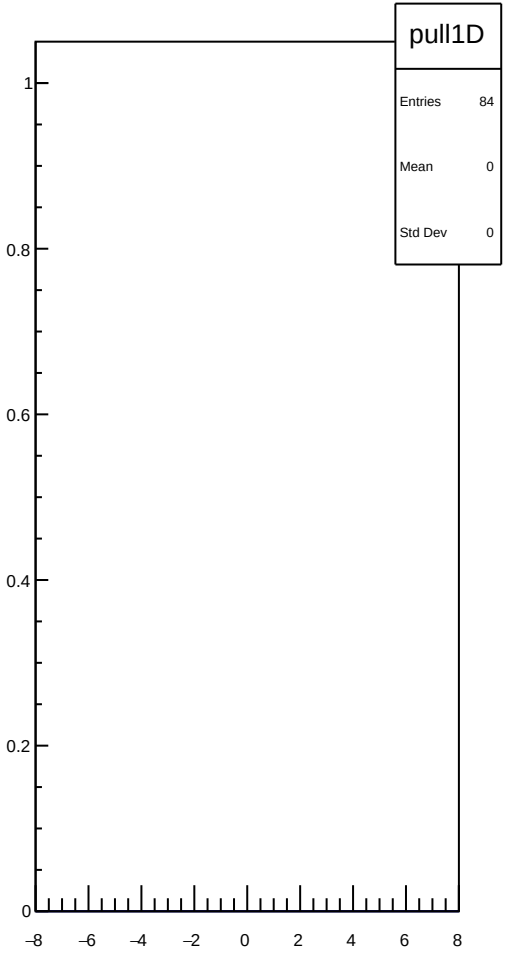

dit_atl1_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07
×10¹⁵
600
400
200
0
−200
−400
−600

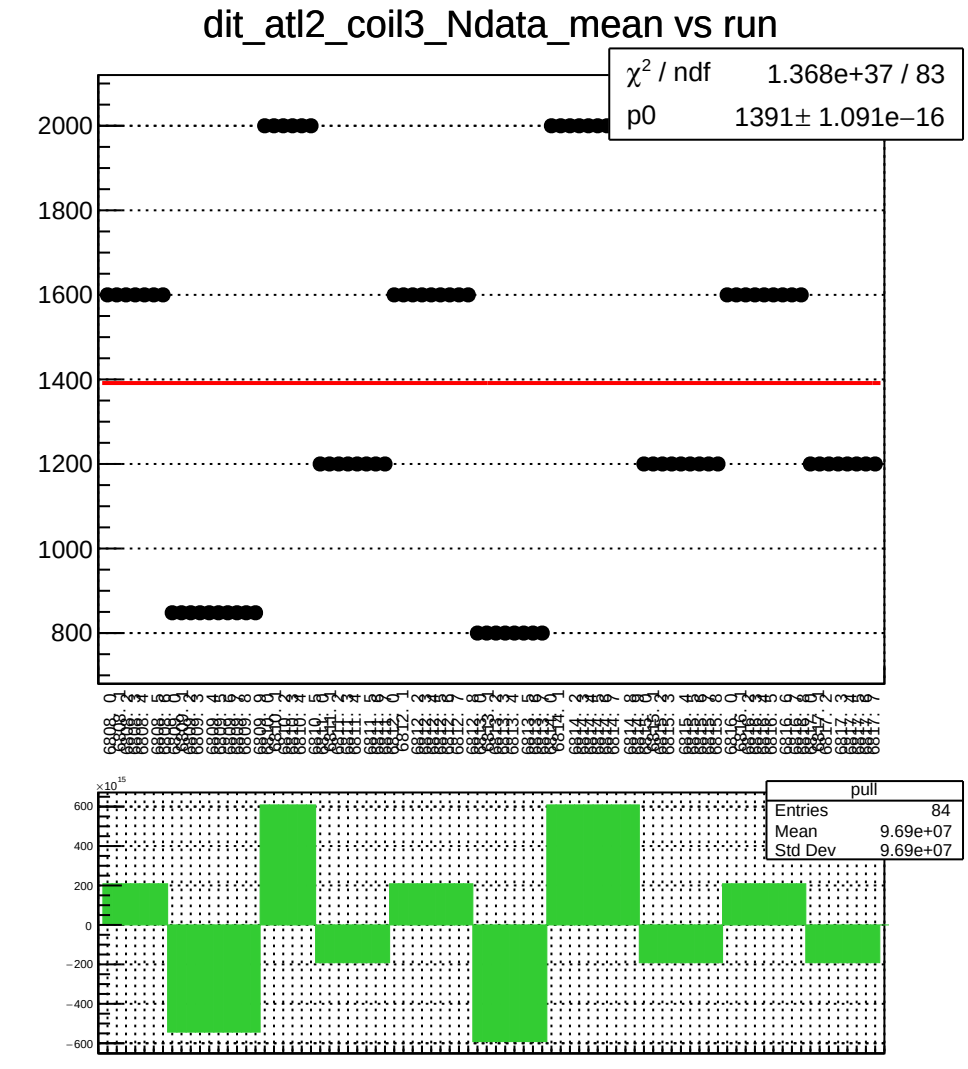

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

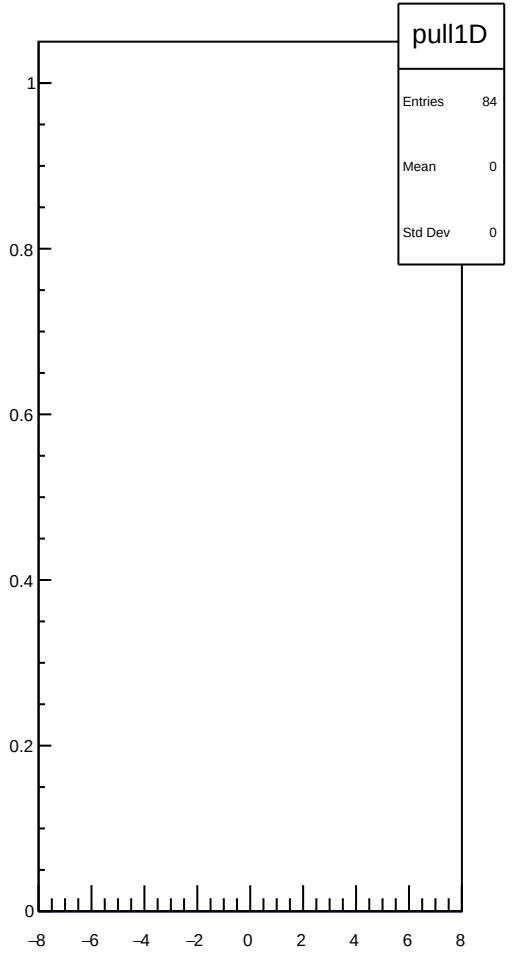

dit_atl2_coil3_mean vs run
χ² / ndf 4.115e+36 / 83
p0 1.083e+04 ± 1.091e−16
11200
11100
11000
10900
10800
10700
10600
10500
×10¹⁵
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean 5.794e+08
Std Dev 5.794e+08

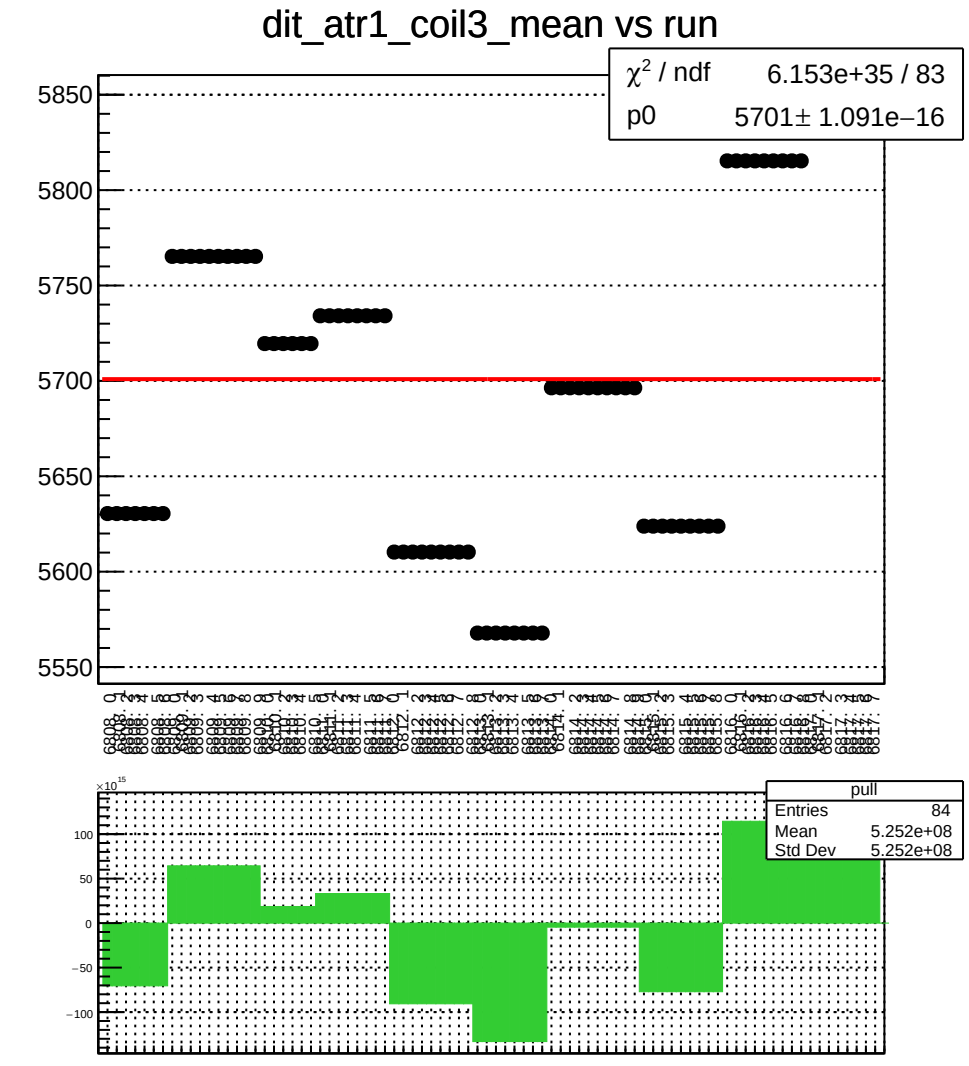

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

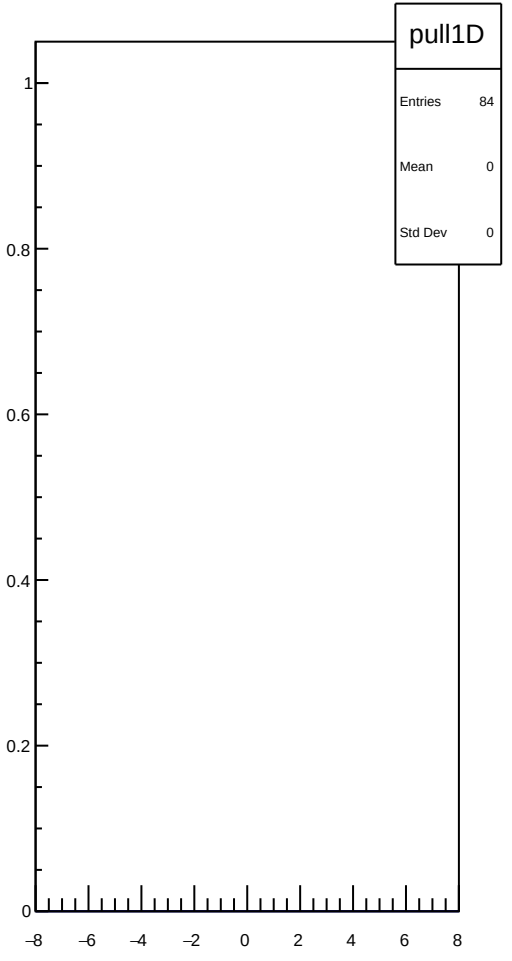

dit_atl2_coil3_err_mean vs run
χ² / ndf 8.262e+35 / 83
p0 569.3 ± 1.091e−16
800
750
700
650
600
550
500
450
400
pull
Entries 84
Mean 7.618e+08
Std Dev 7.618e+08
×10¹⁵
200
150
100
50
0
−50
−100
−150

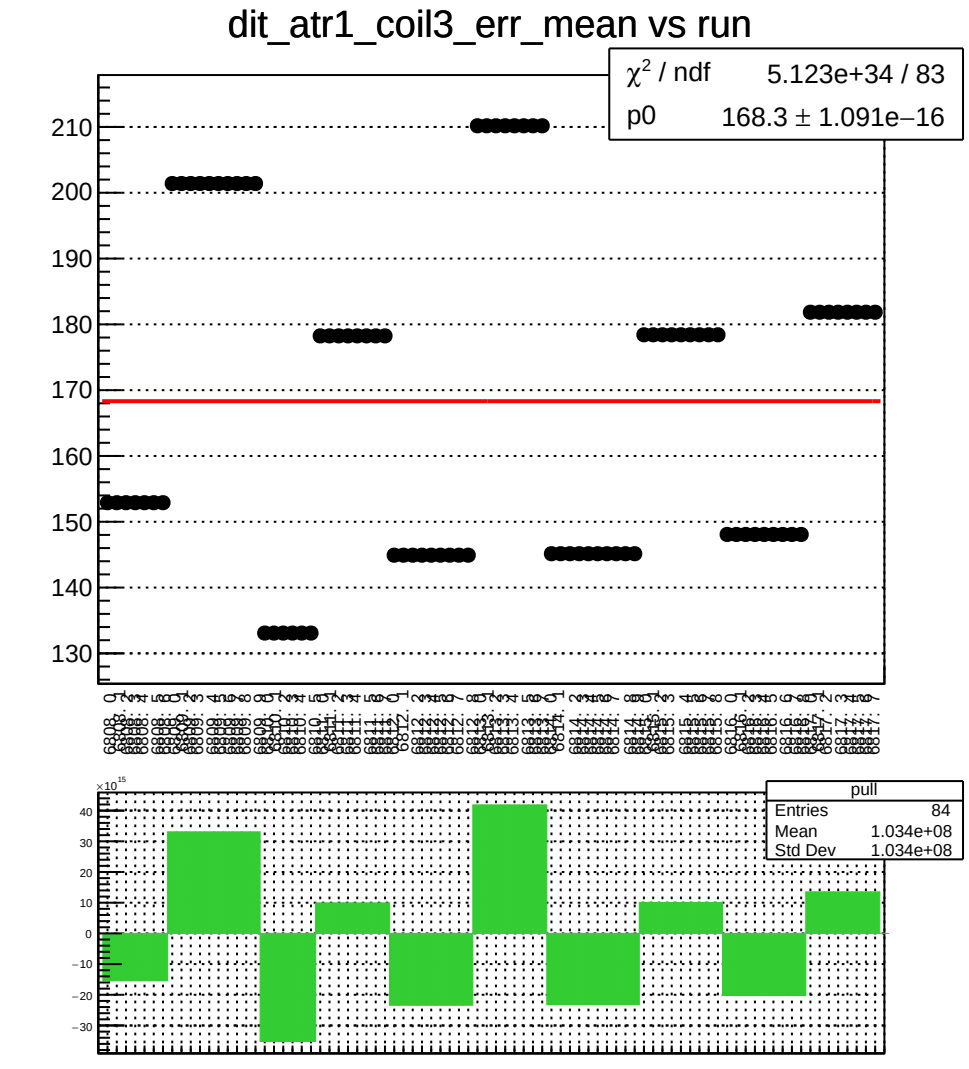

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

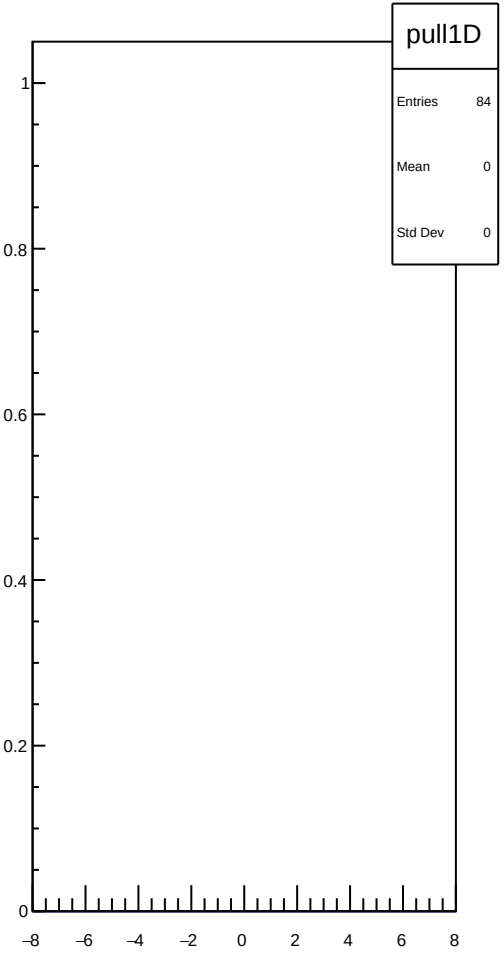

dit_atl2_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07
×10¹⁵
600
400
200
0
−200
−400
−600

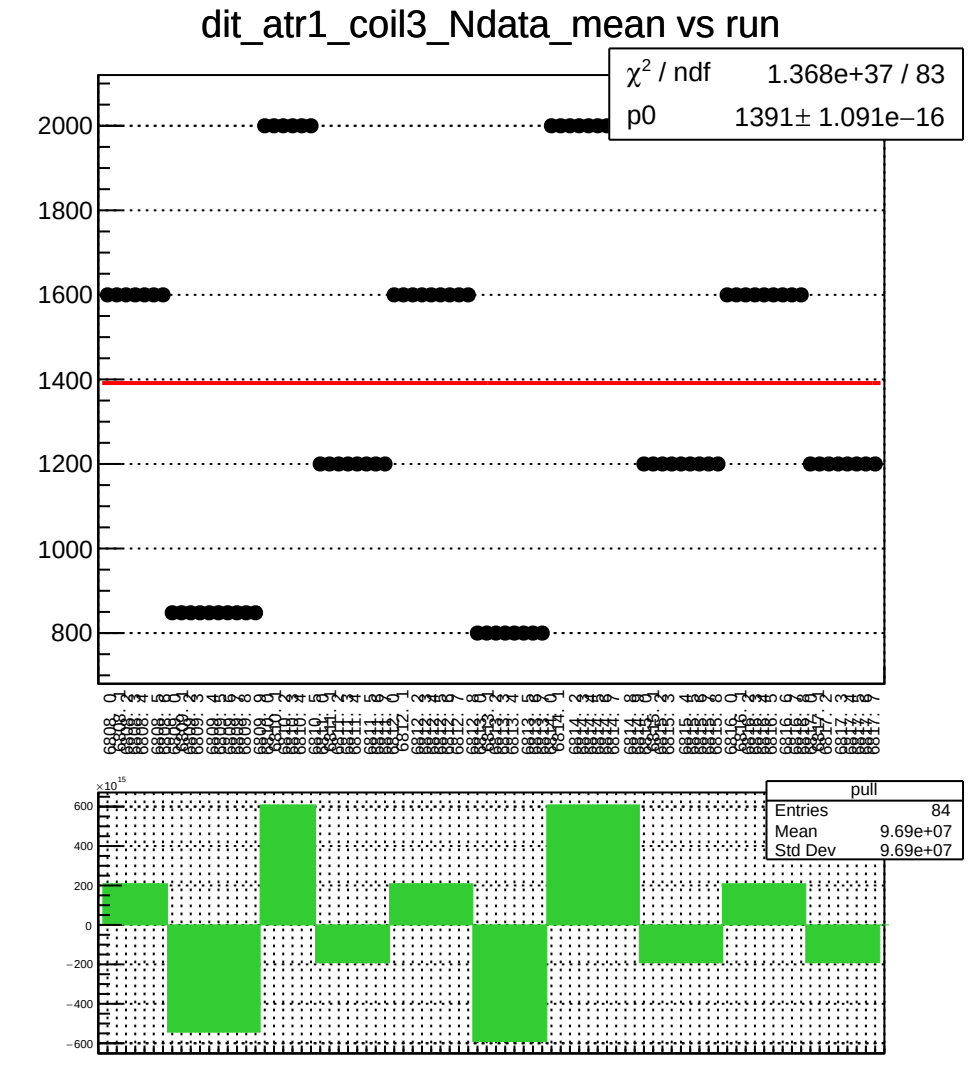

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

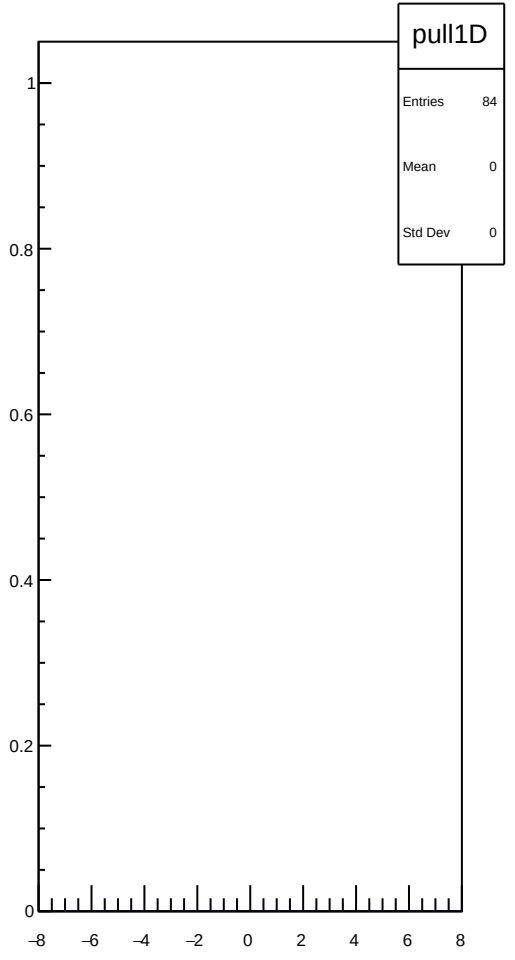

dit_atr1_coil3_mean vs run
χ² / ndf 6.153e+35 / 83
p0 5701± 1.091e−16
5850
5800
5750
5700
5650
5600
5550
pull
Entries 84
Mean 5.252e+08
Std Dev 5.252e+08
×10¹⁵
100
50
0
−50
−100

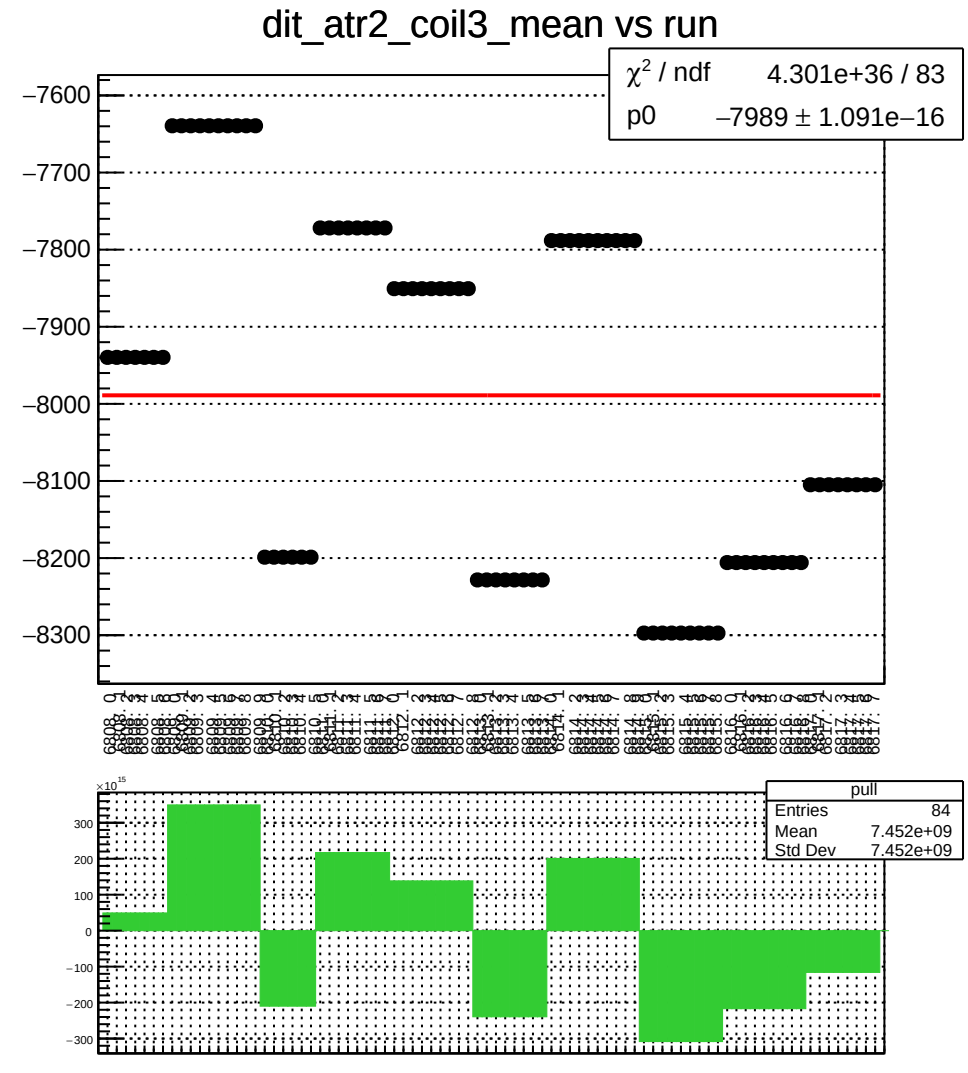

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

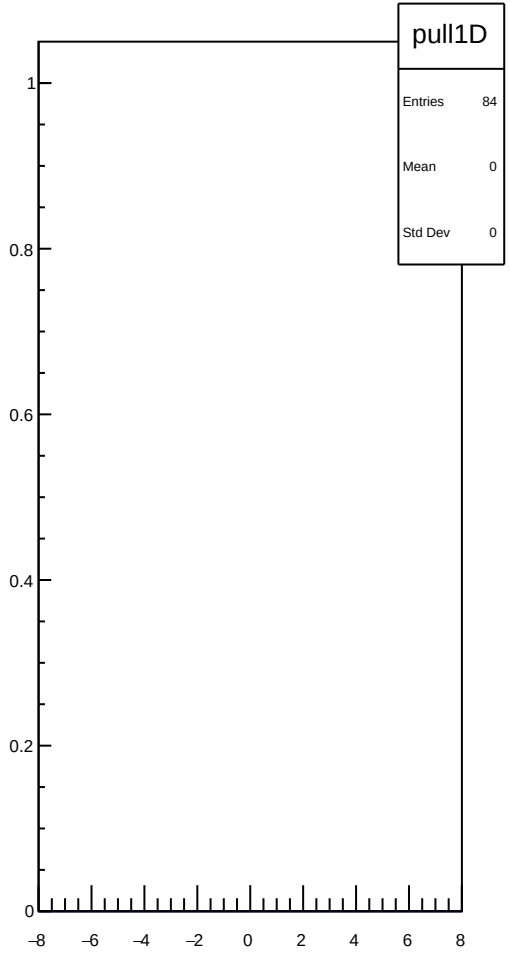

dit_atr1_coil3_err_mean vs run
χ² / ndf 5.123e+34 / 83
p0 168.3 ± 1.091e−16
pull
Entries 84
Mean 1.034e+08
Std Dev 1.034e+08

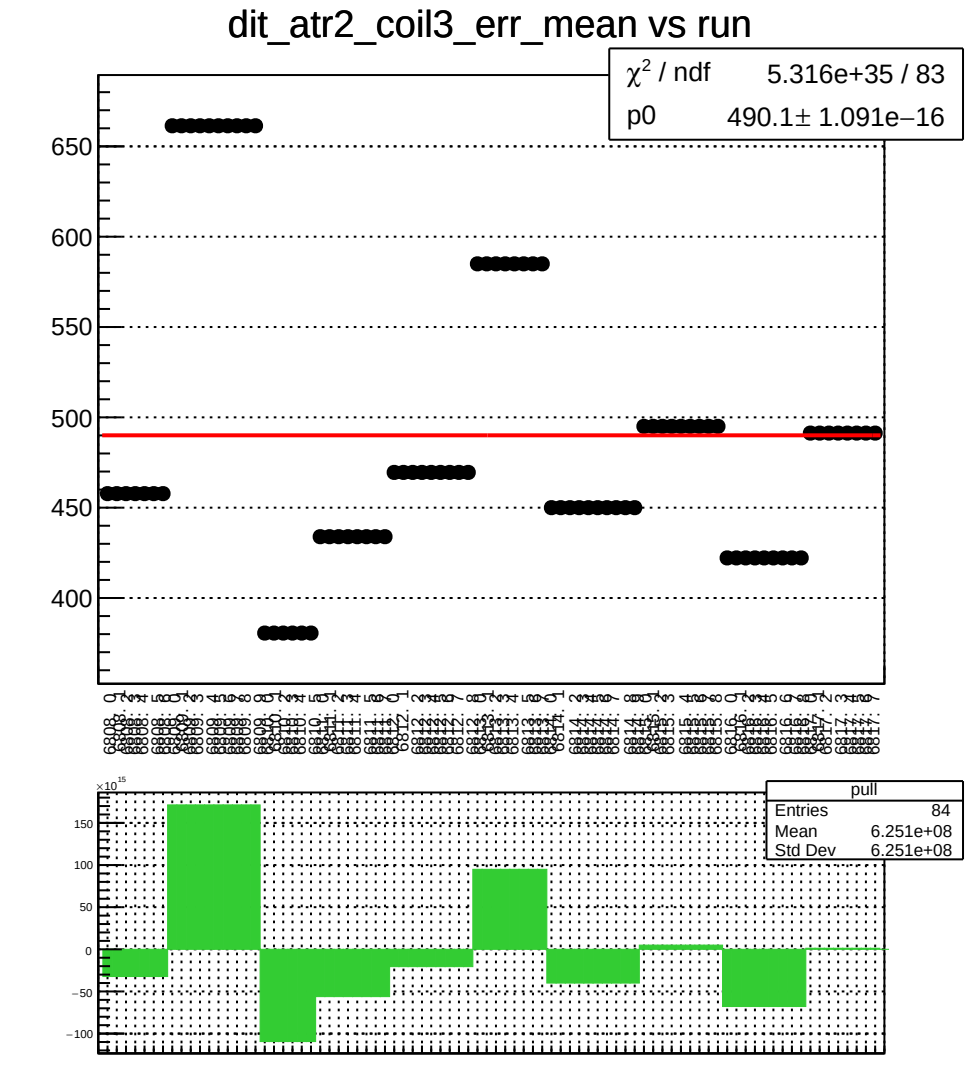

pull1D
Entries 84
Mean 0
Std Dev 0

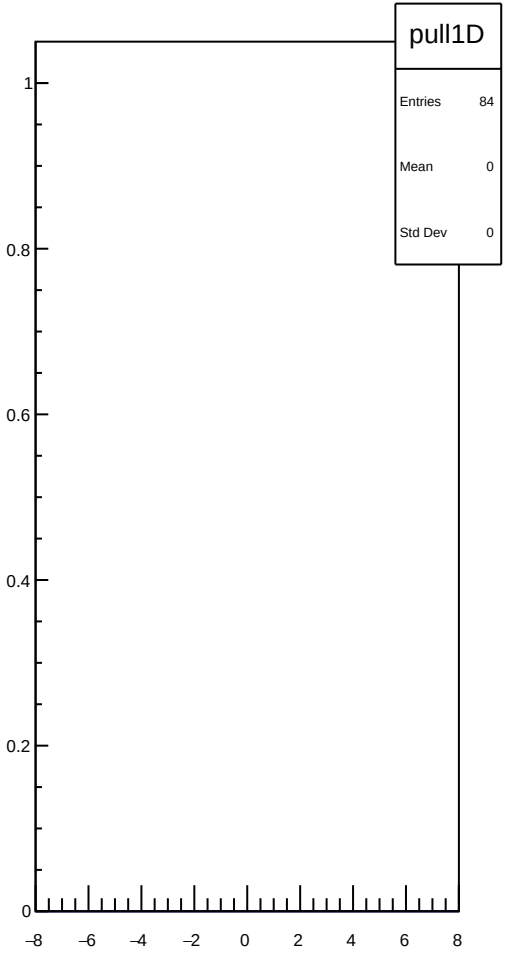

dit_atr1_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07
×10¹⁵
600
400
200
0
−200
−400
−600

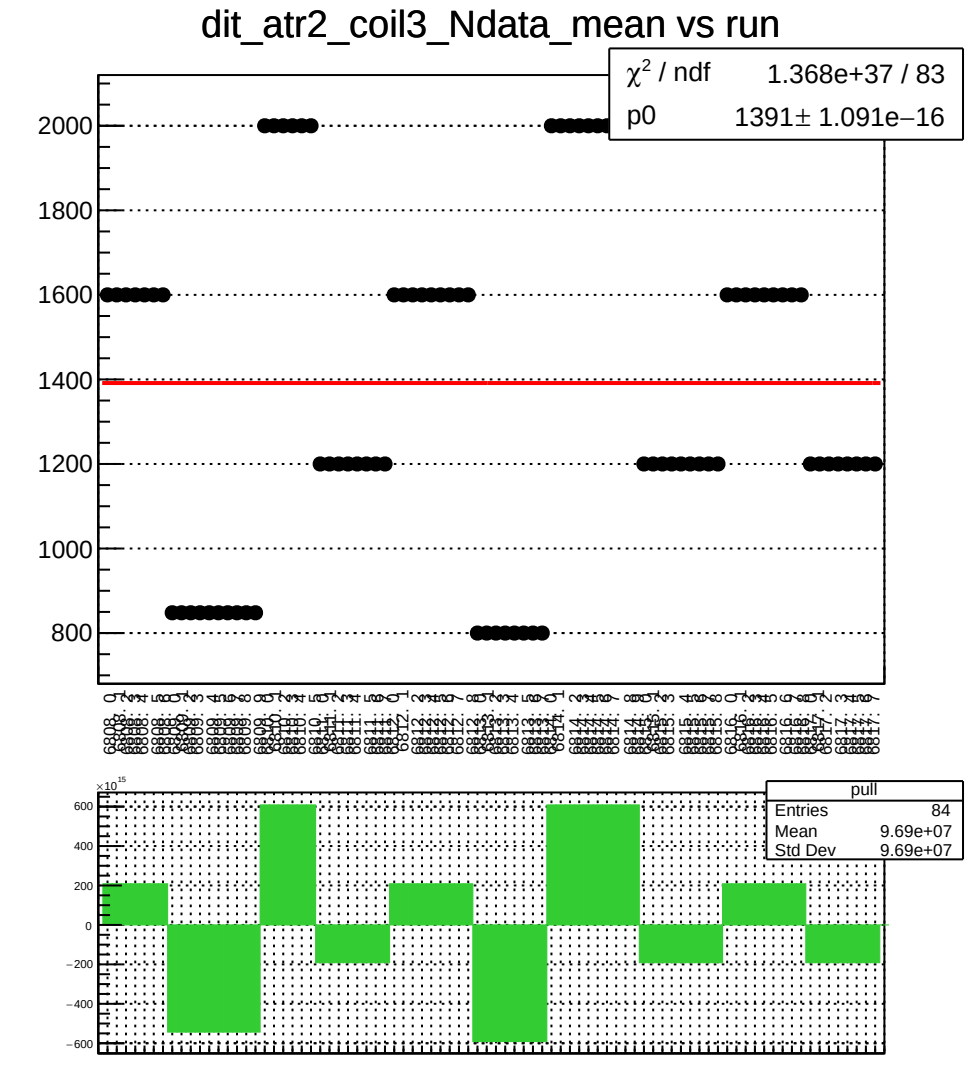

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

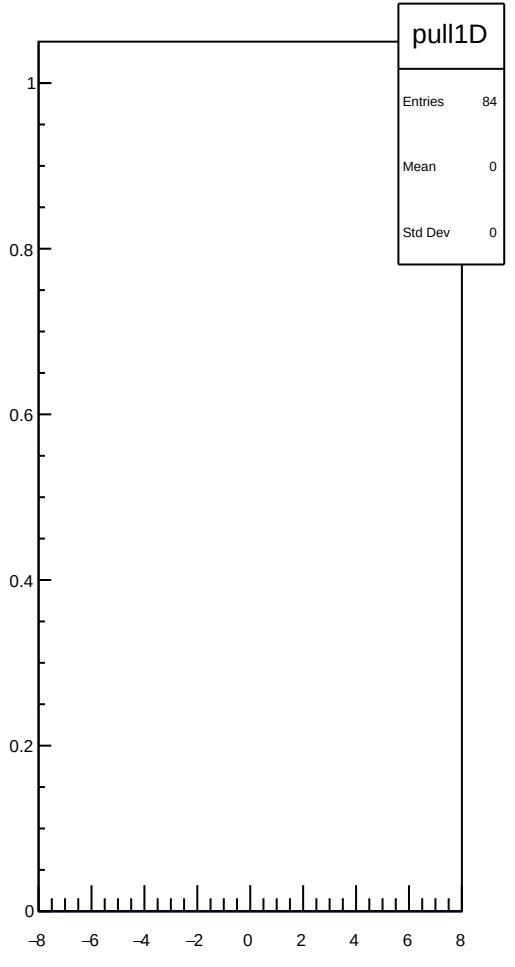

dit_atr2_coil3_mean vs run
χ² / ndf 4.301e+36 / 83
p0 −7989 ± 1.091e−16
−7600
−7700
−7800
−7900
−8000
−8100
−8200
−8300
pull
Entries 84
Mean 7.452e+09
Std Dev 7.452e+09
×10¹⁵
300
200
100
0
−100
−200
−300

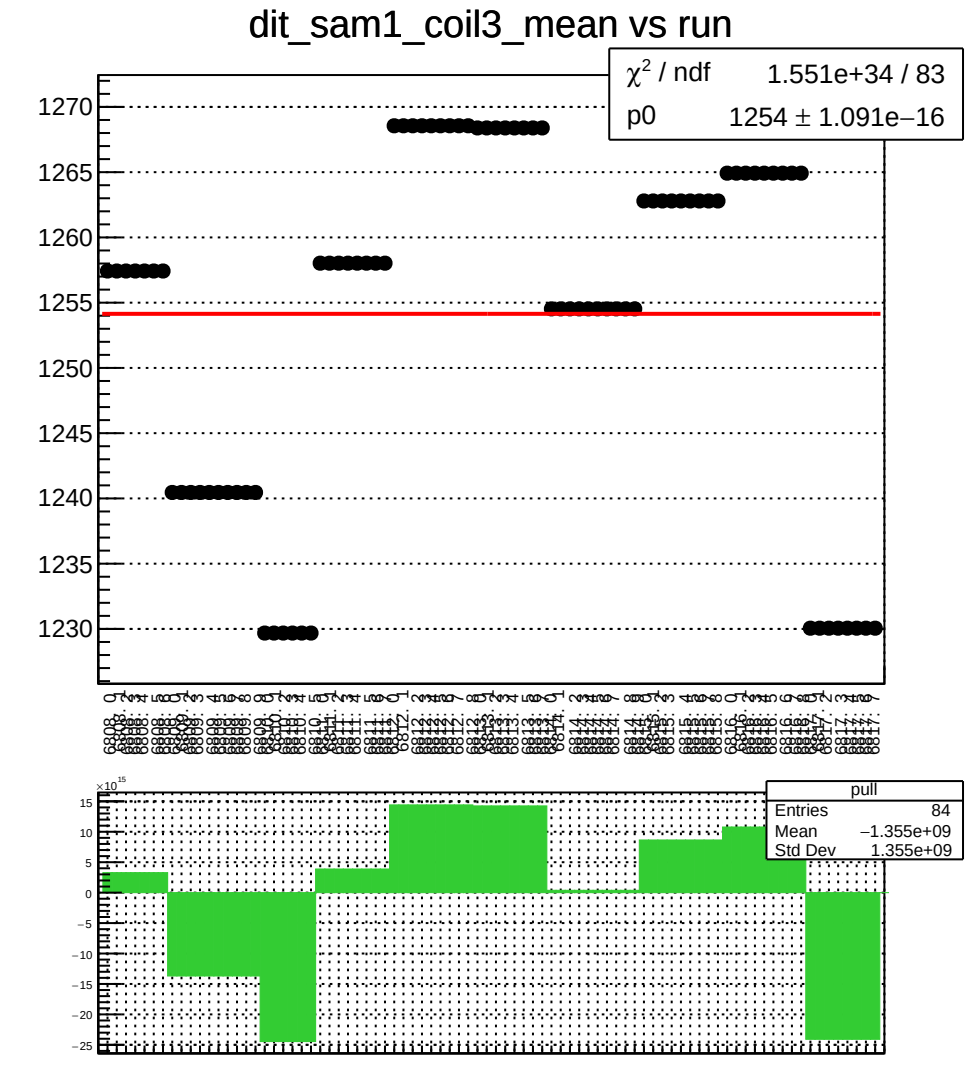

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

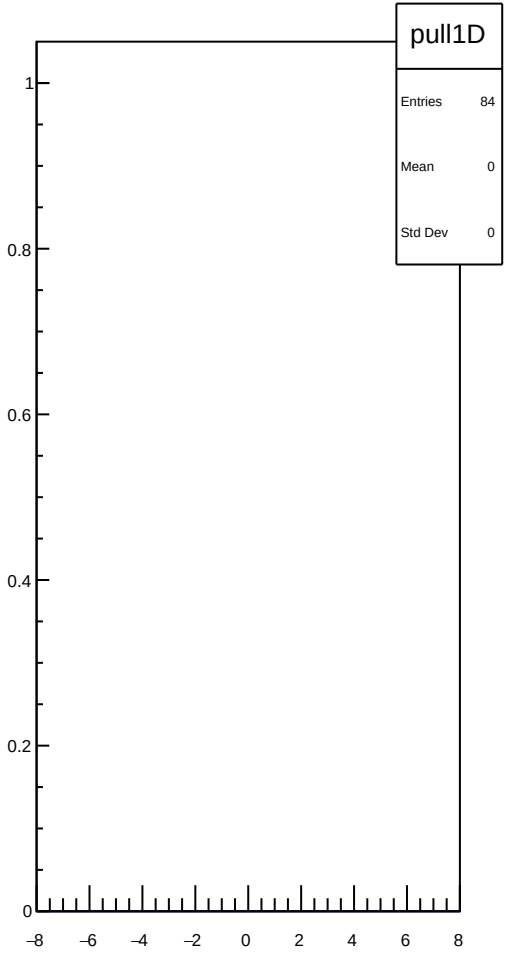

dit_atr2_coil3_err_mean vs run
χ² / ndf 5.316e+35 / 83
p0 490.1± 1.091e−16
650
600
550
500
450
400
pull
Entries 84
Mean 6.251e+08
Std Dev 6.251e+08
×10¹⁵
150
100
50
0
−50
−100

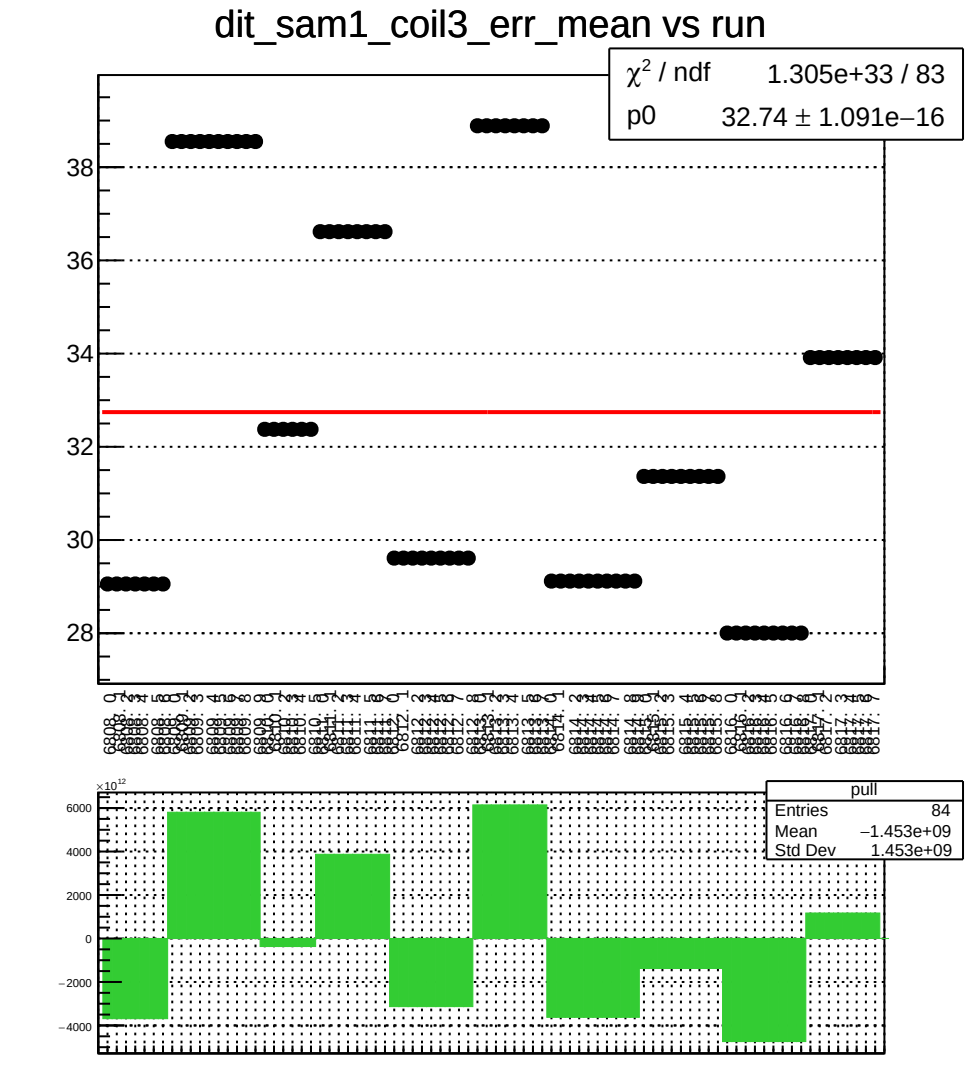

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

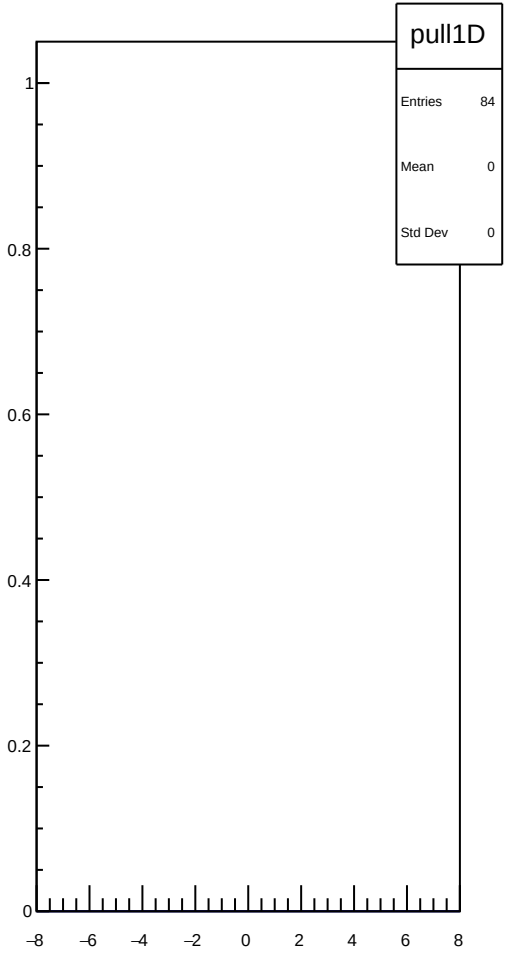

dit_atr2_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
×10¹⁵
600
400
200
0
−200
−400
−600
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07

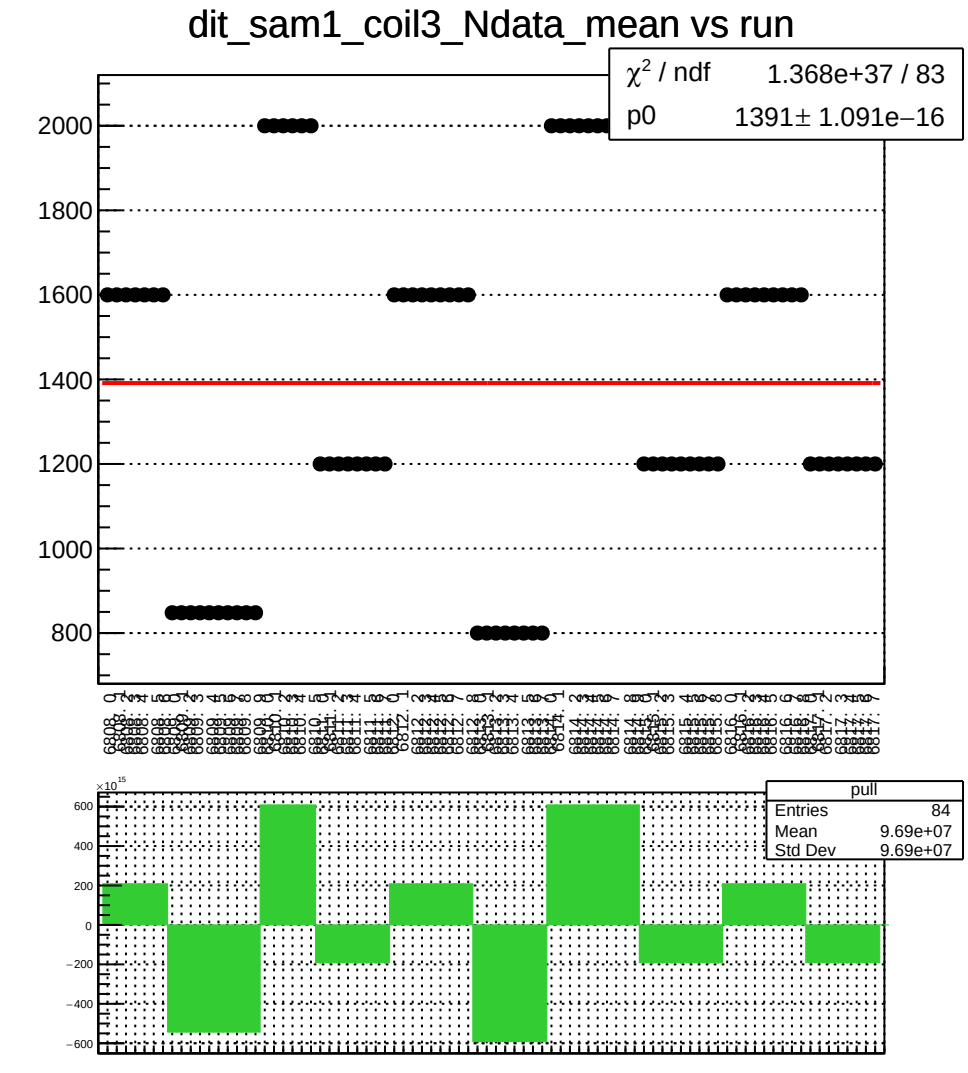

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

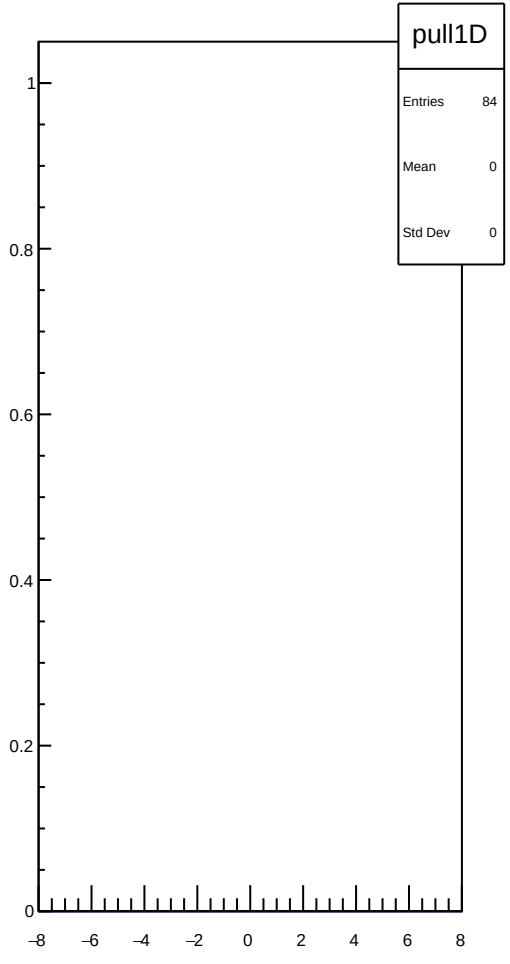

dit_sam1_coil3_mean vs run
χ² / ndf 1.551e+34 / 83
p0 1254 ± 1.091e−16
1270
1265
1260
1255
1250
1245
1240
1235
1230
pull
Entries 84
Mean −1.355e+09
Std Dev 1.355e+09
×10¹⁵
15
10
5
0
−5
−10
−15
−20
−25

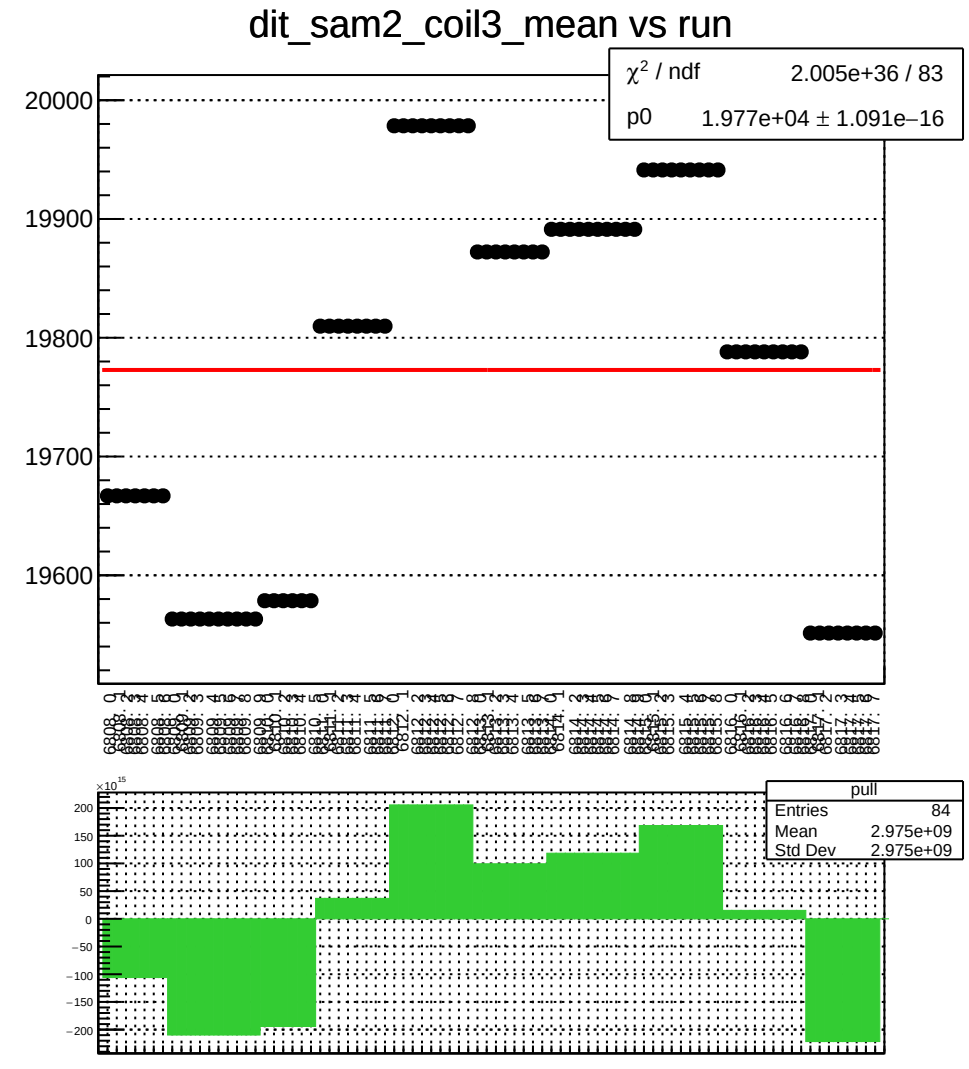

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

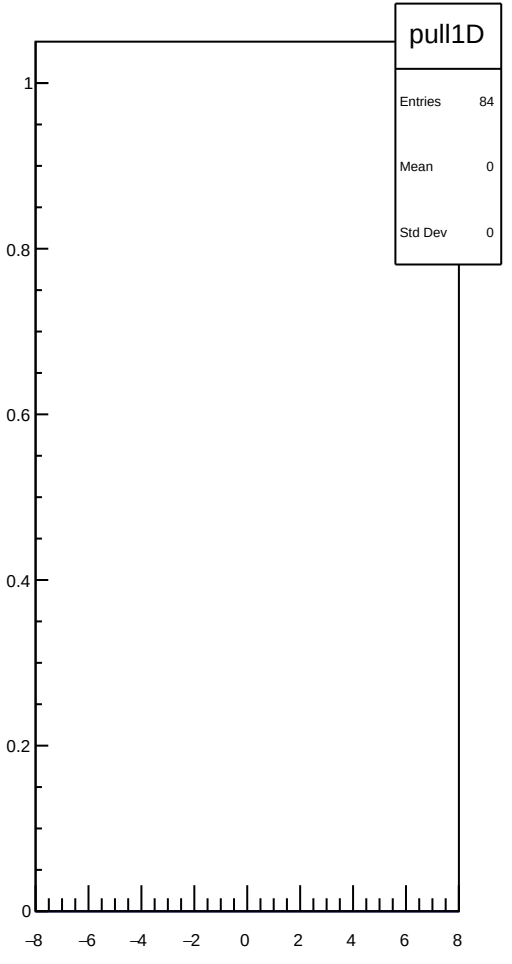

dit_sam1_coil3_err_mean vs run
χ² / ndf 1.305e+33 / 83
p0 32.74 ± 1.091e−16
38
36
34
32
30
28
×10¹²
6000
4000
2000
0
−2000
−4000
pull
Entries 84
Mean −1.453e+09
Std Dev 1.453e+09

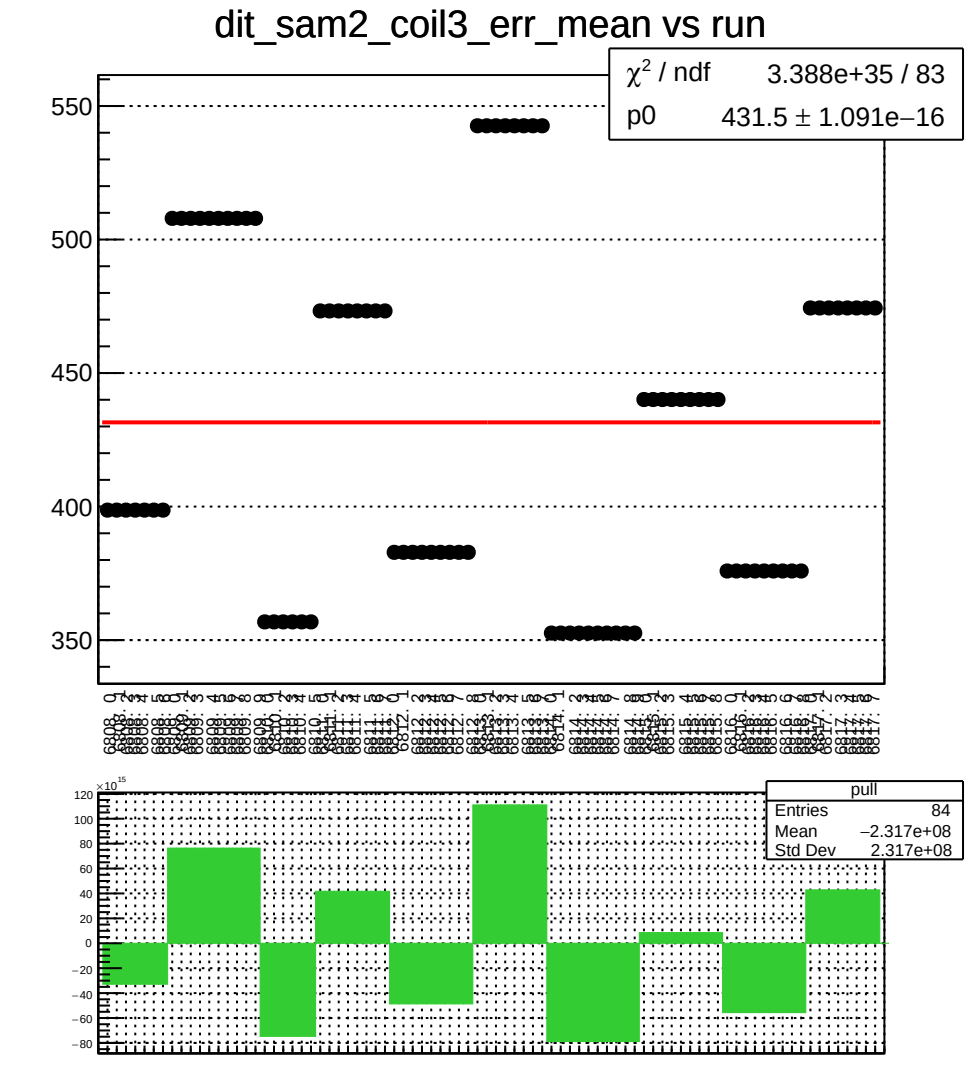

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

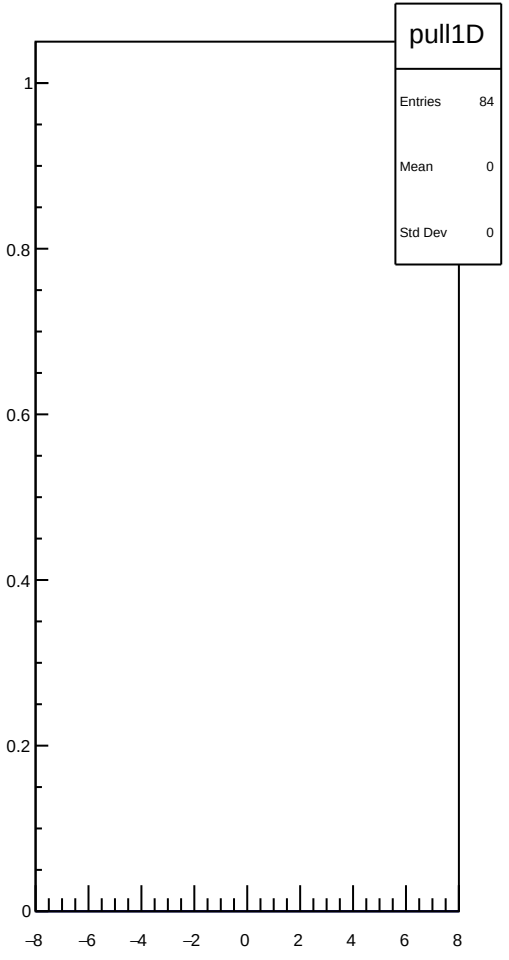

dit_sam1_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07
×10¹⁵
600
400
200
0
−200
−400
−600

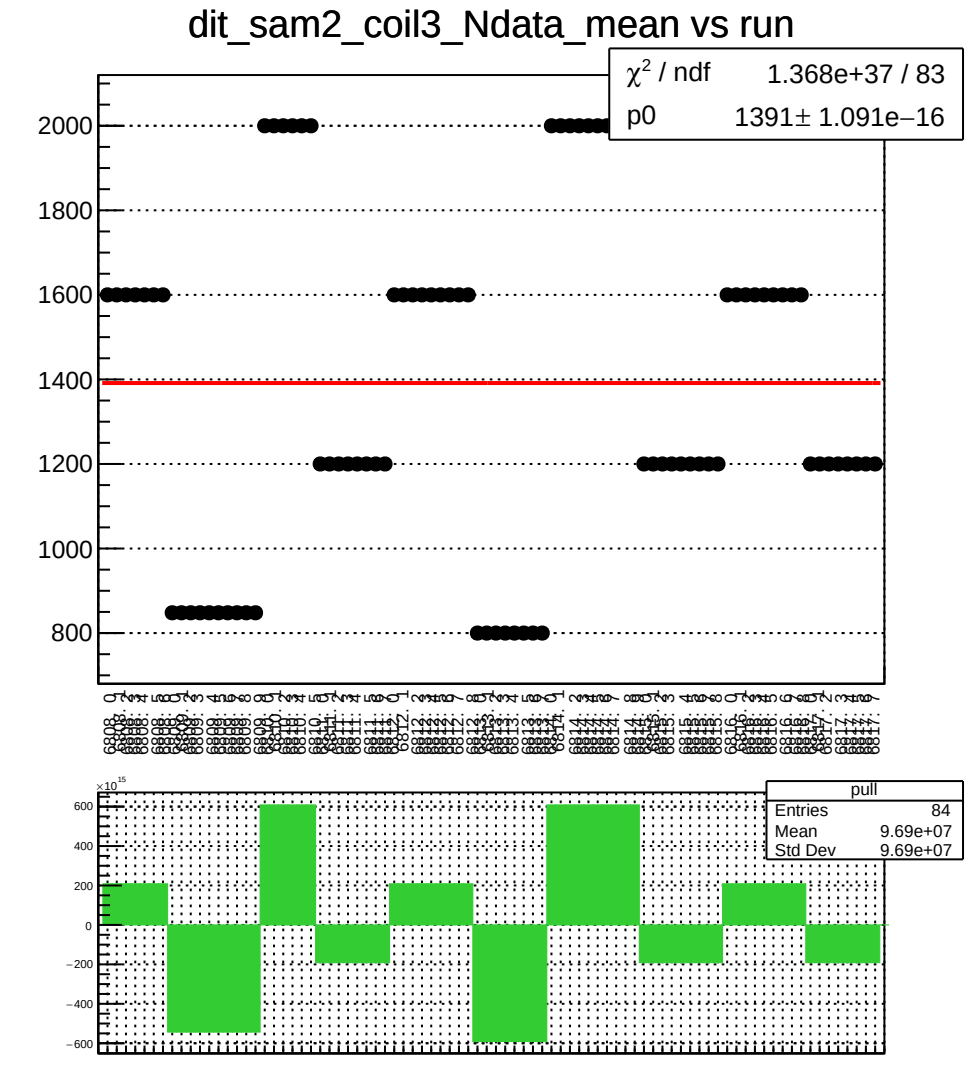

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

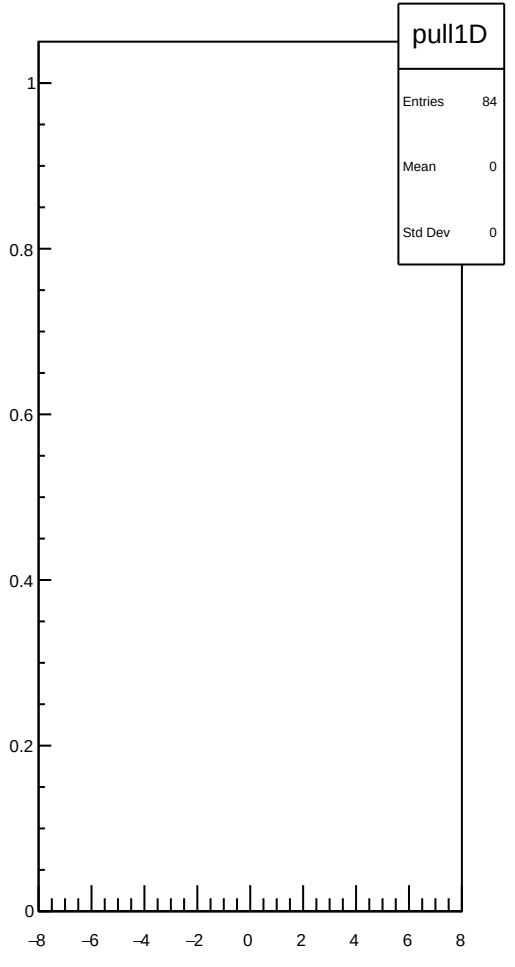

dit_sam2_coil3_mean vs run
χ² / ndf 2.005e+36 / 83
p0 1.977e+04 ± 1.091e−16
20000
19900
19800
19700
19600
pull
Entries 84
Mean 2.975e+09
Std Dev 2.975e+09
×10¹⁵
200
150
100
50
0
−50
−100
−150
−200

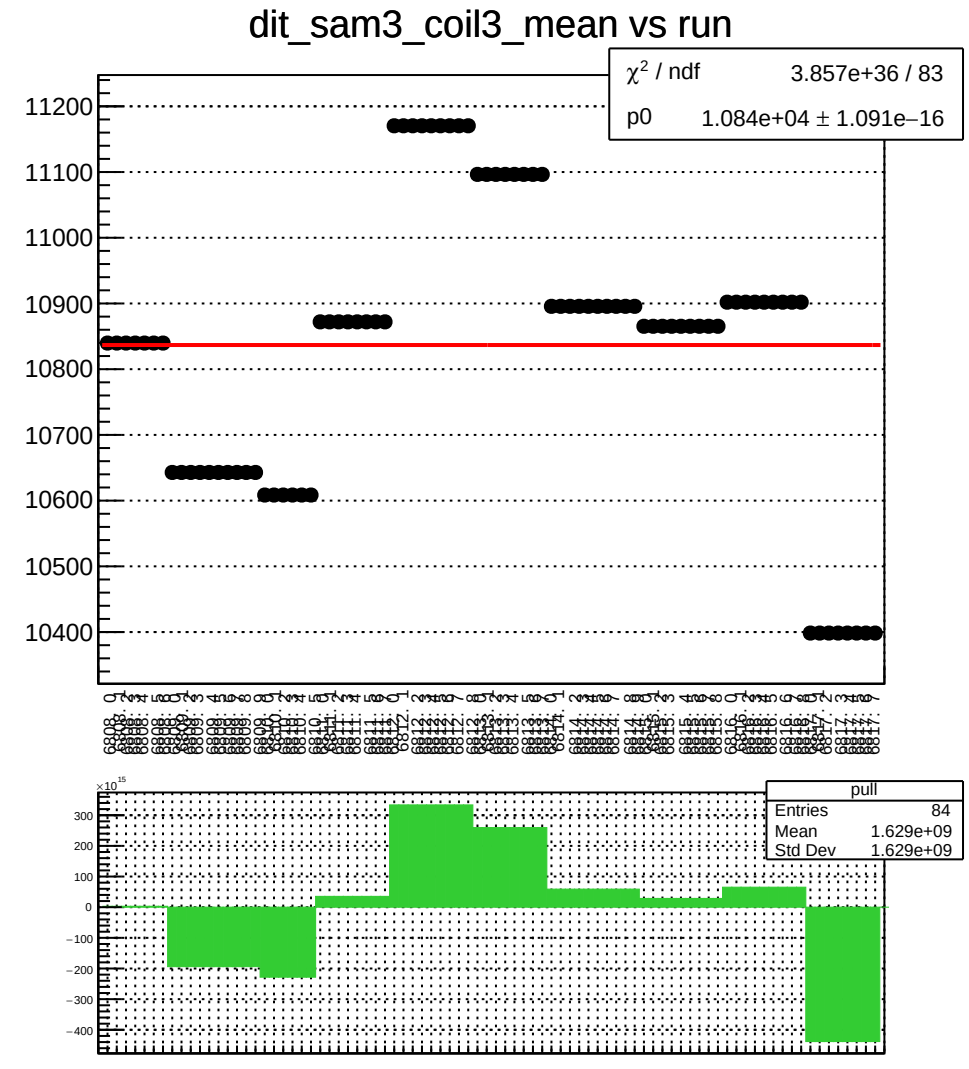

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

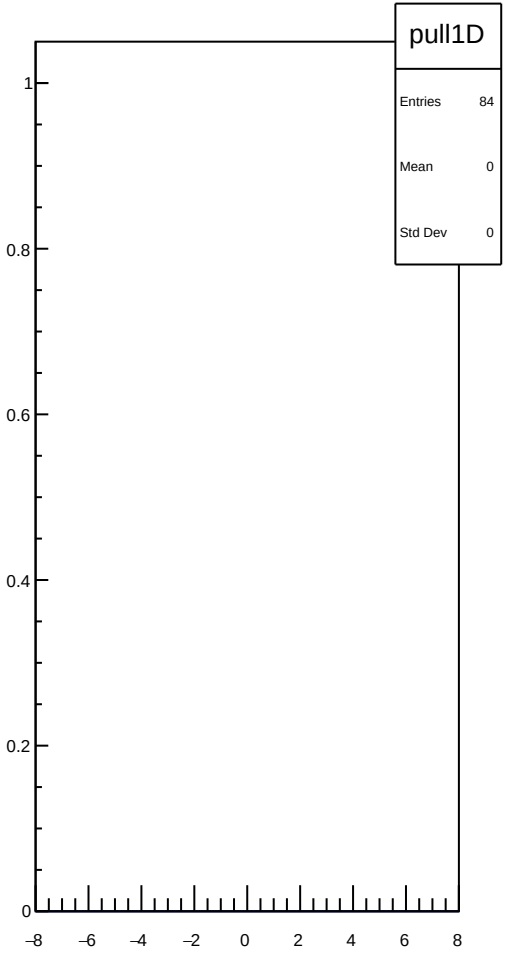

dit_sam2_coil3_err_mean vs run
χ² / ndf 3.388e+35 / 83
p0 431.5 ± 1.091e−16
550
500
450
400
350
pull
Entries 84
Mean −2.317e+08
Std Dev 2.317e+08
×10¹⁵
120
100
80
60
40
20
0
−20
−40
−60
−80

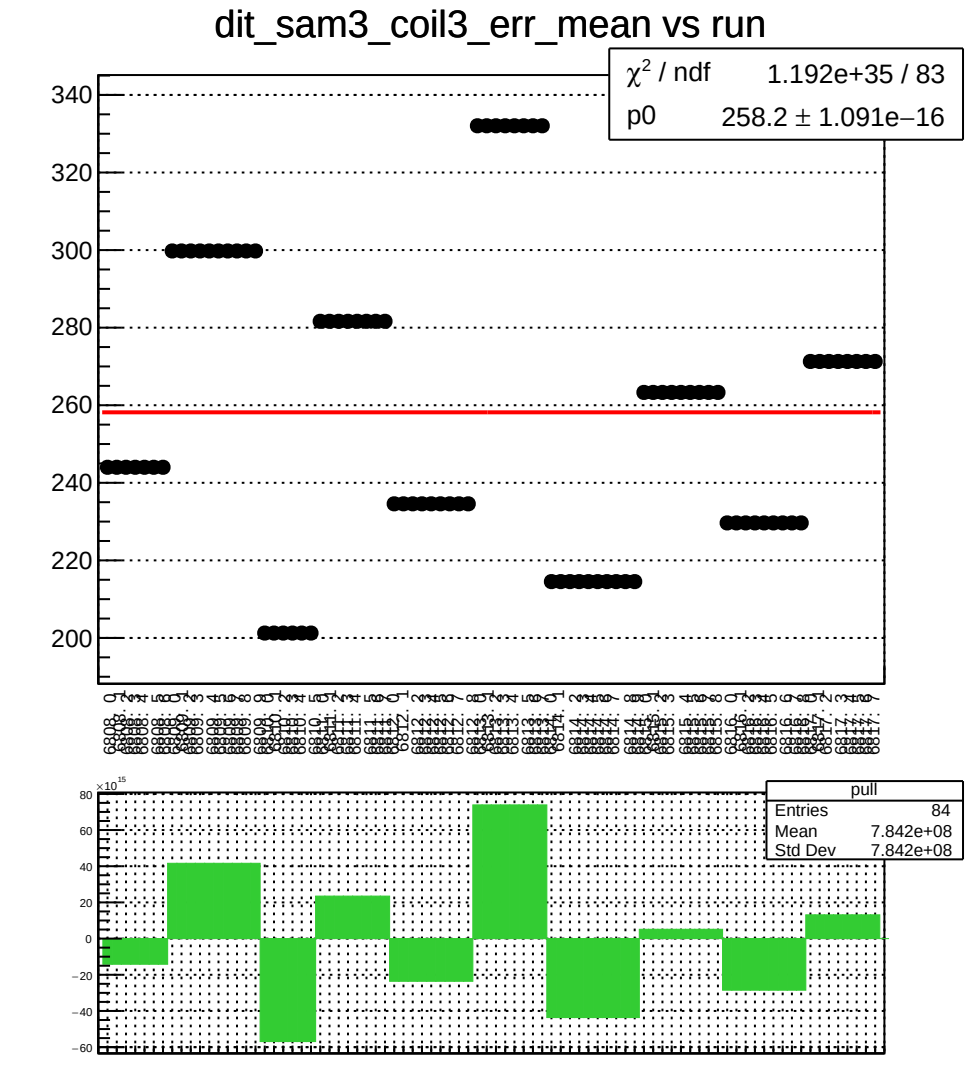

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

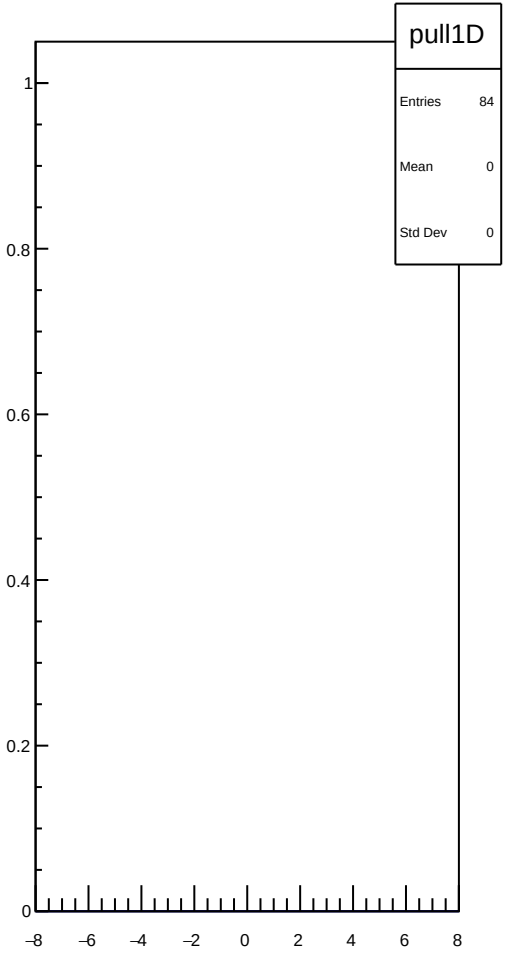

dit_sam2_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
×10¹⁵
600
400
200
0
−200
−400
−600
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07

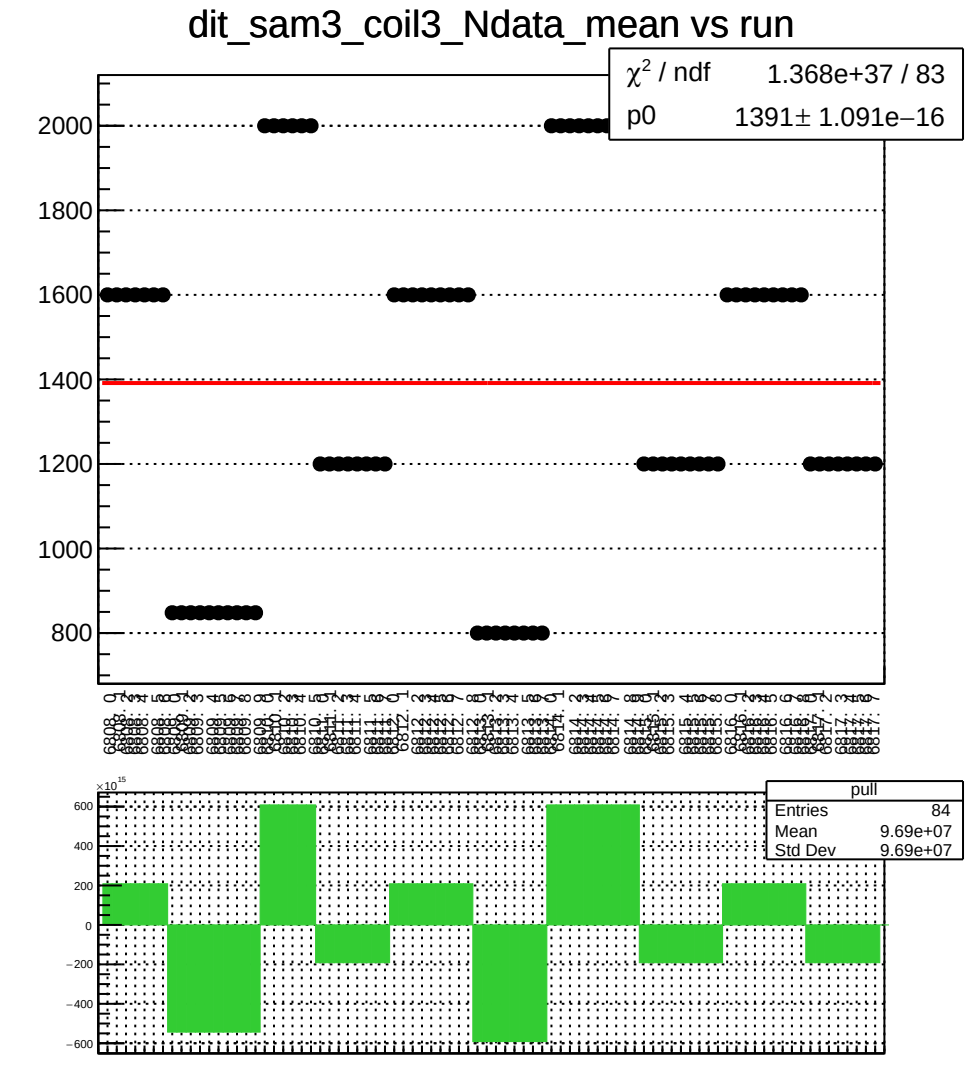

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

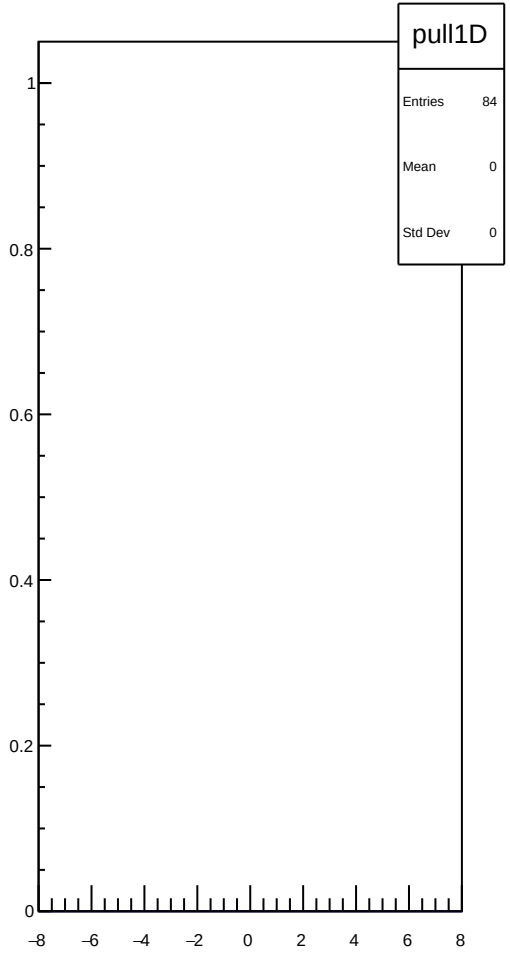

dit_sam3_coil3_mean vs run
χ² / ndf 3.857e+36 / 83
p0 1.084e+04 ± 1.091e−16
11200
11100
11000
10900
10800
10700
10600
10500
10400
pull
Entries 84
Mean 1.629e+09
Std Dev 1.629e+09
×10¹⁵
300
200
100
0
−100
−200
−300
−400

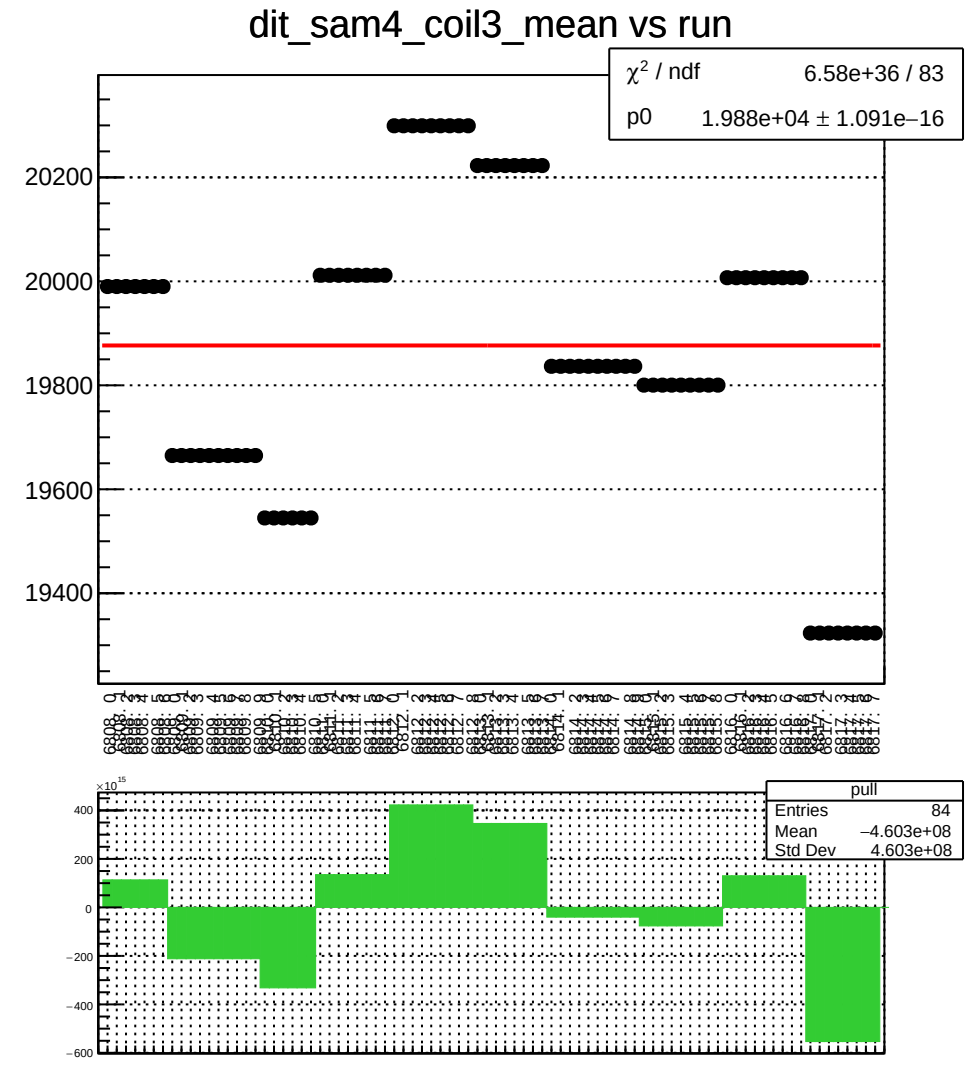

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

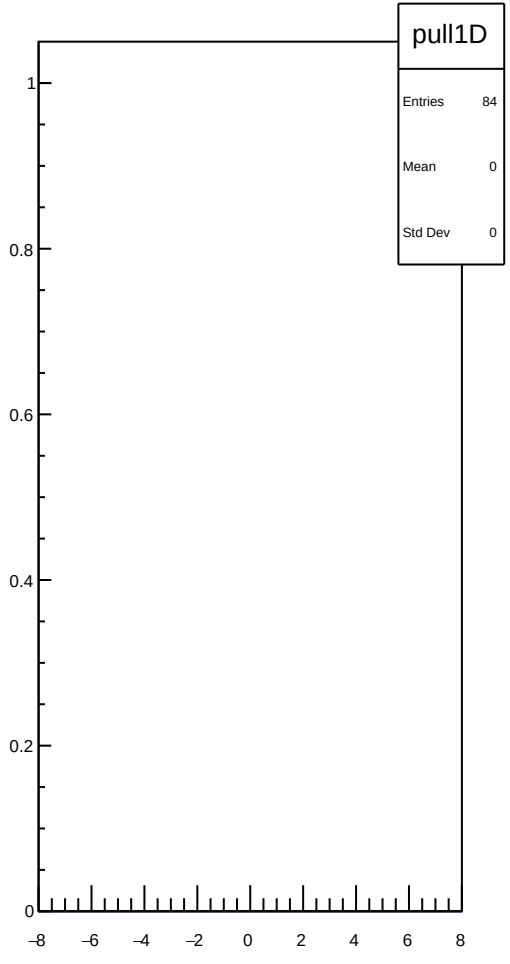

dit_sam3_coil3_err_mean vs run
χ² / ndf 1.192e+35 / 83
p0 258.2 ± 1.091e−16
340
320
300
280
260
240
220
200
pull
Entries 84
Mean 7.842e+08
Std Dev 7.842e+08
×10¹⁵
80
60
40
20
0
−20
−40
−60

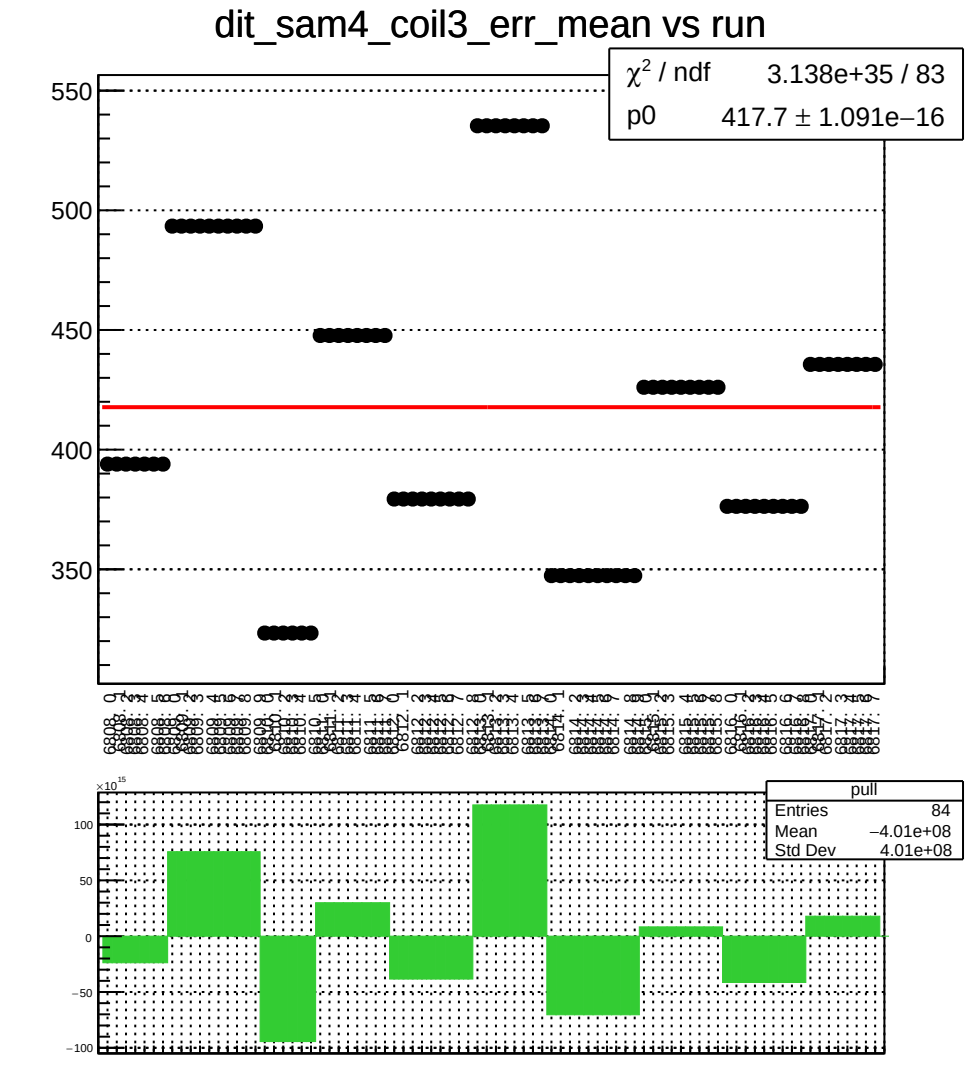

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

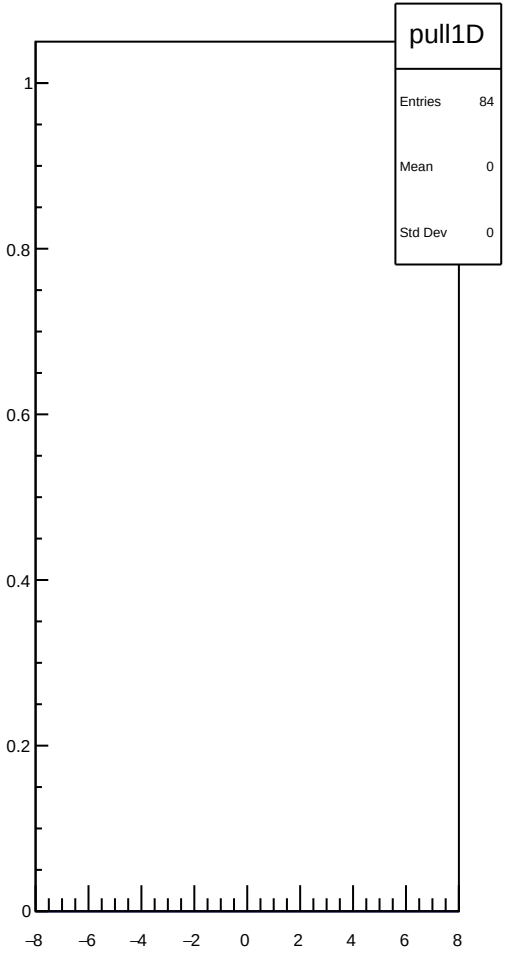

dit_sam3_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07
×10¹⁵
600
400
200
0
−200
−400
−600

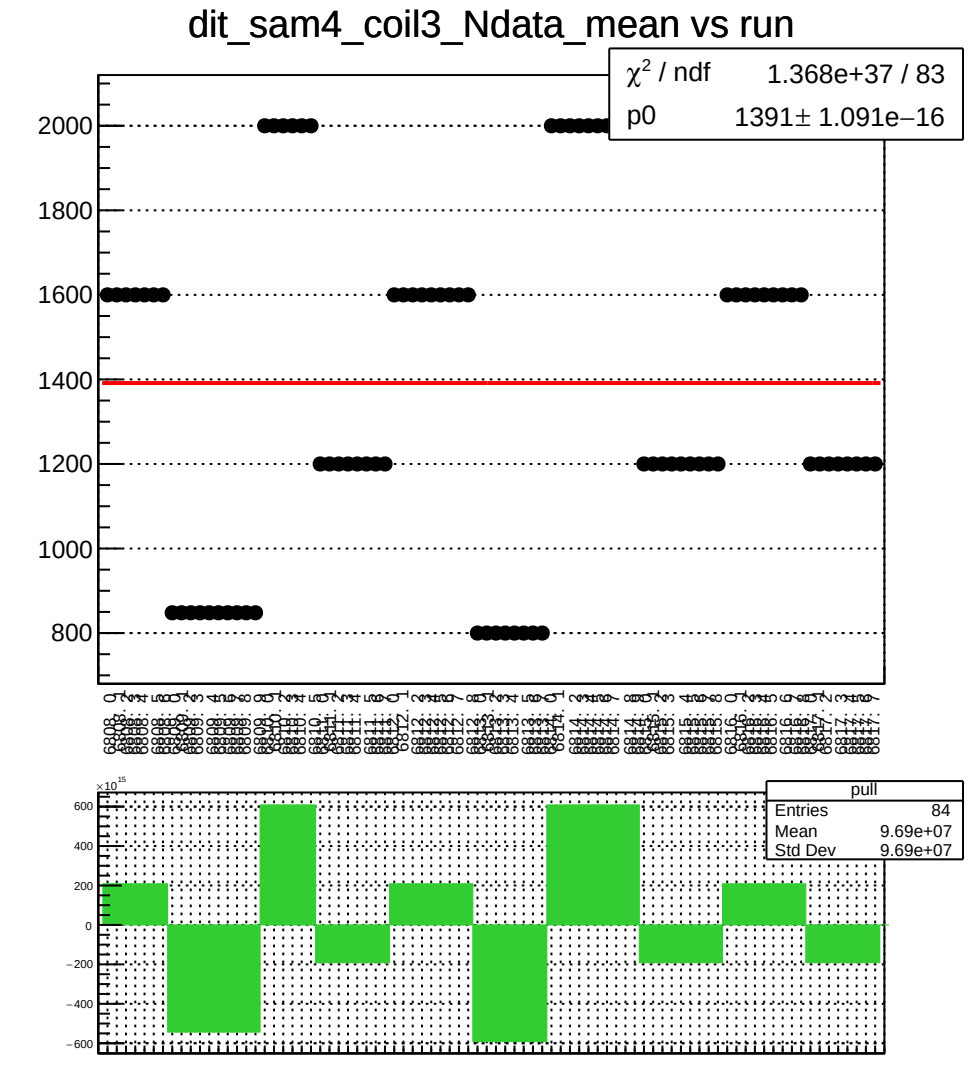

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

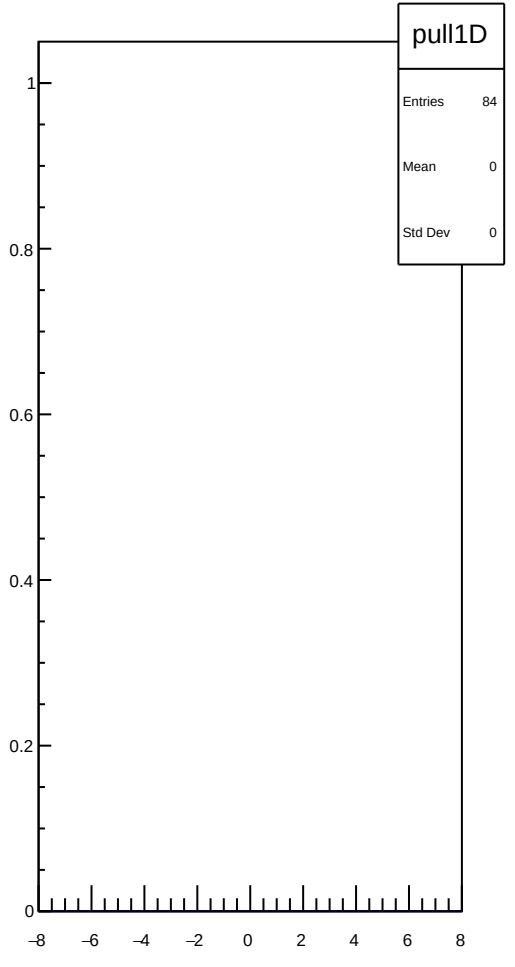

dit_sam4_coil3_mean vs run
χ² / ndf 6.58e+36 / 83
p0 1.988e+04 ± 1.091e−16
20200
20000
19800
19600
19400
×10¹⁵
400
200
0
−200
−400
−600
pull
Entries 84
Mean −4.603e+08
Std Dev 4.603e+08

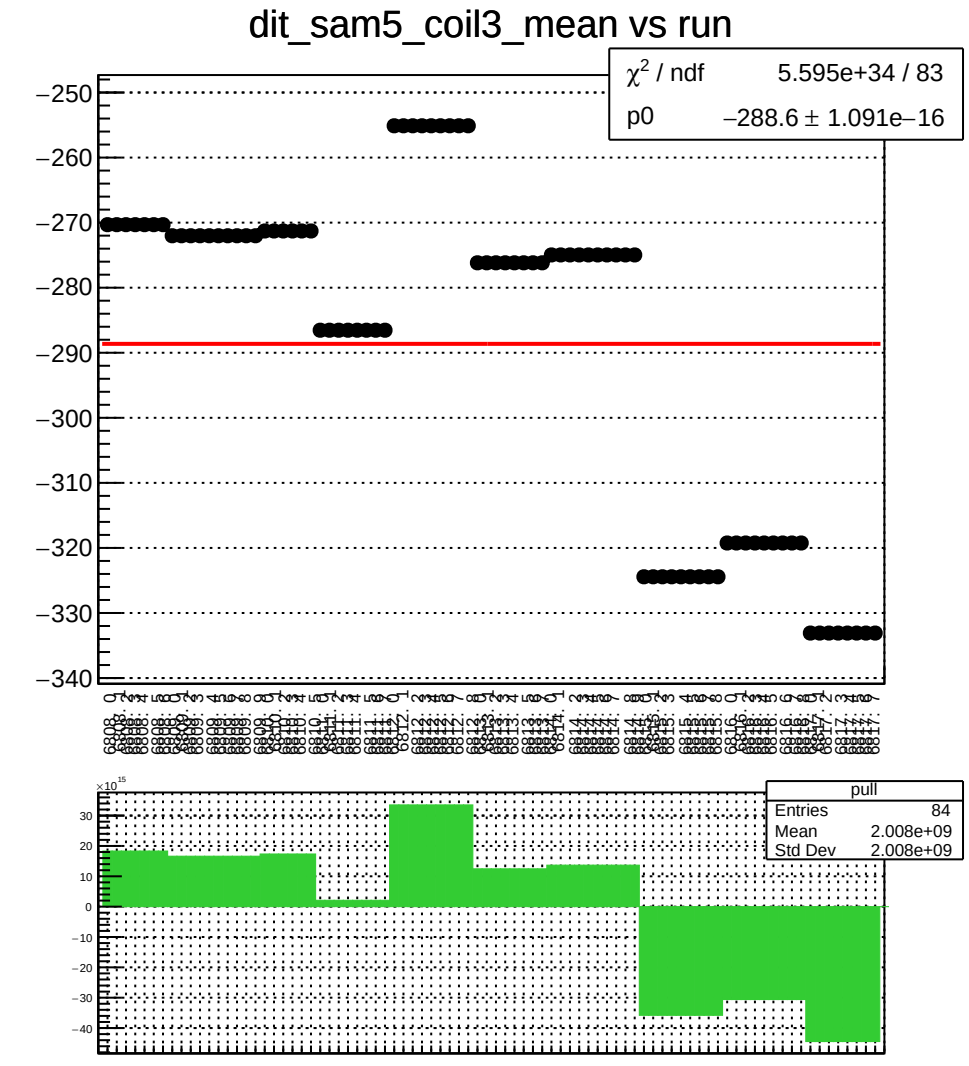

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

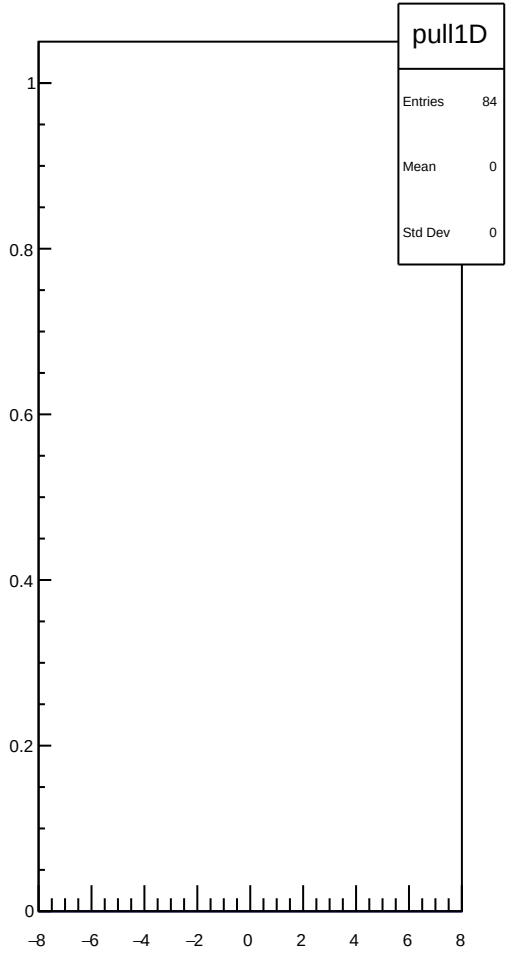

dit_sam4_coil3_err_mean vs run
χ² / ndf 3.138e+35 / 83
p0 417.7 ± 1.091e−16
550
500
450
400
350
pull
Entries 84
Mean −4.01e+08
Std Dev 4.01e+08
×10¹⁵
100
50
0
−50
−100

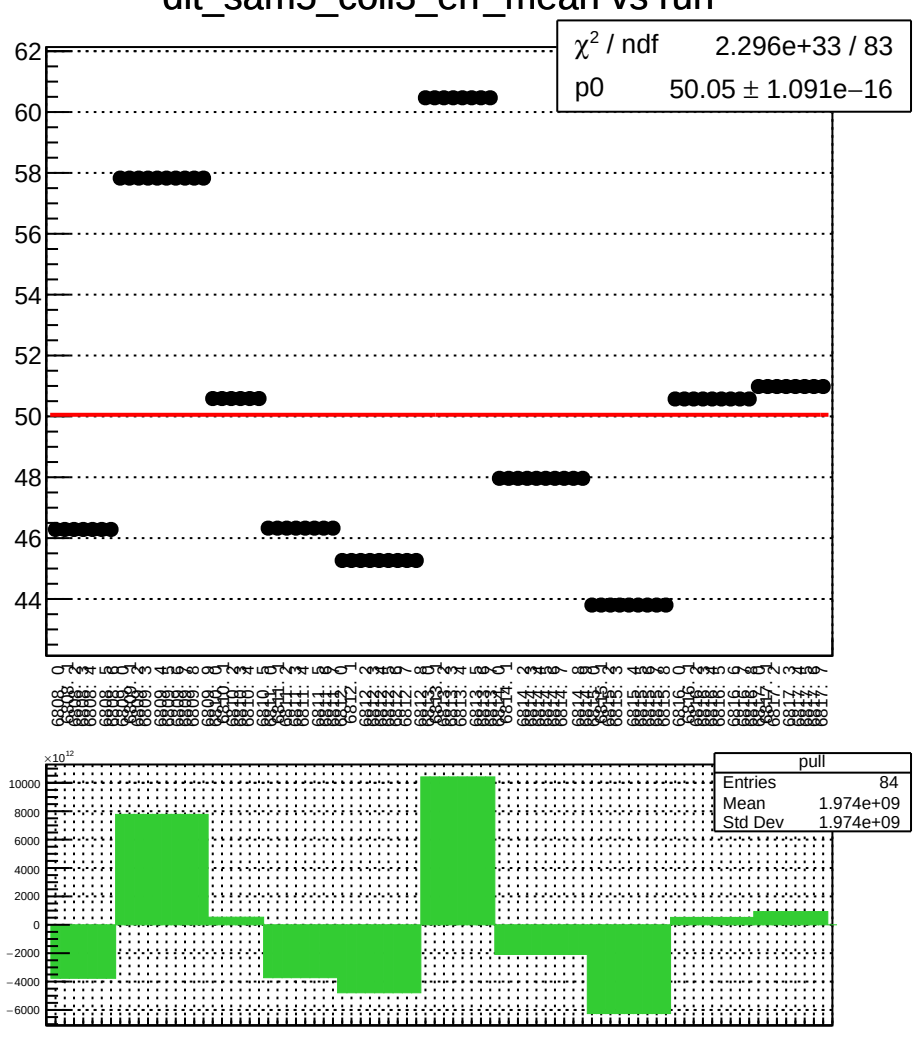

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

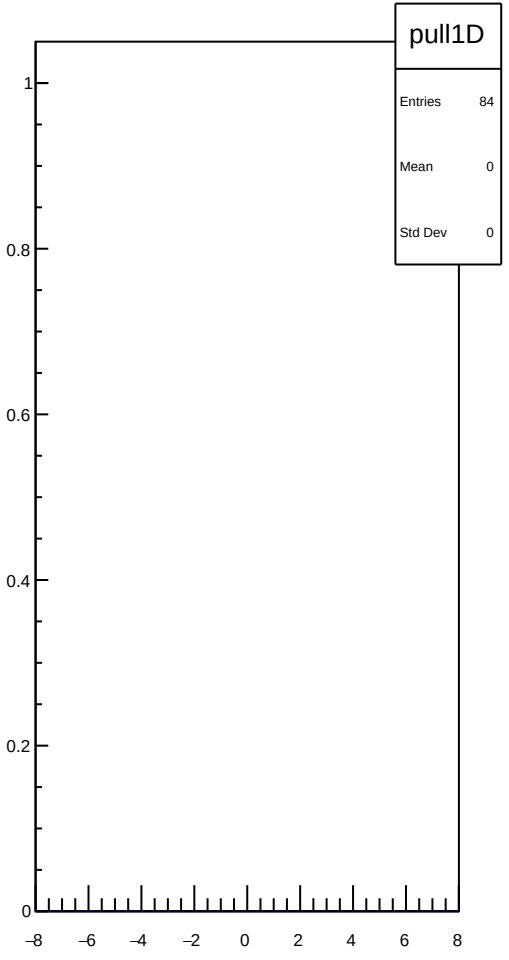

dit_sam4_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
×10¹⁵
600
400
200
0
−200
−400
−600
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07

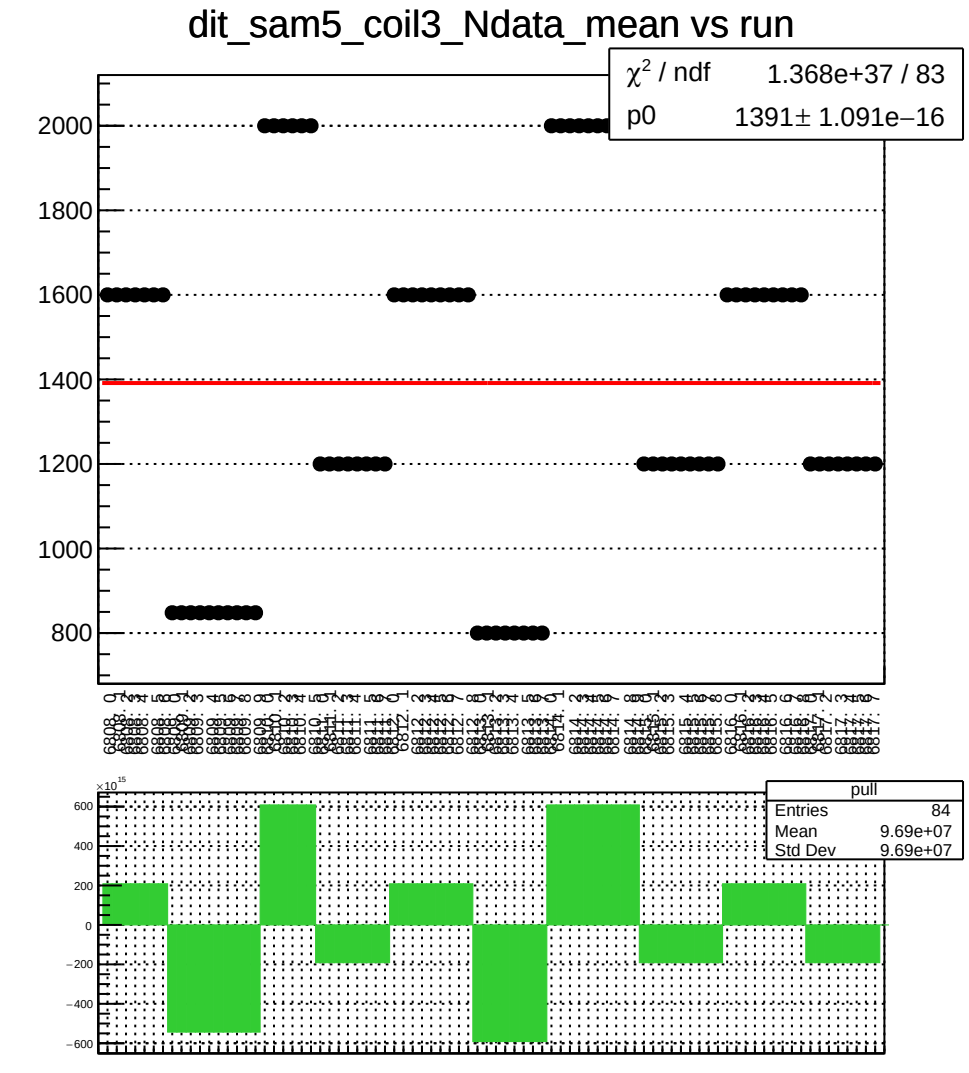

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

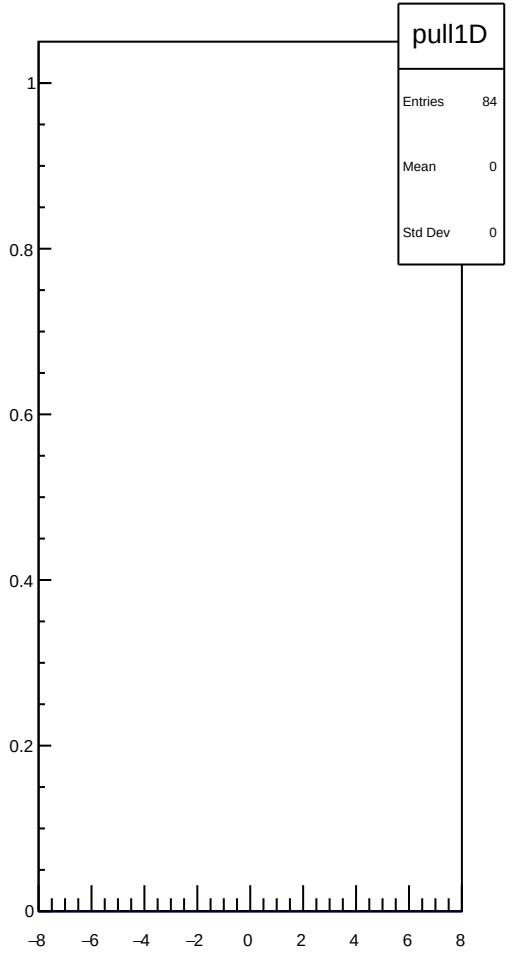

dit_sam5_coil3_mean vs run
χ² / ndf 5.595e+34 / 83
p0 −288.6 ± 1.091e−16
pull
Entries 84
Mean 2.008e+09
Std Dev 2.008e+09

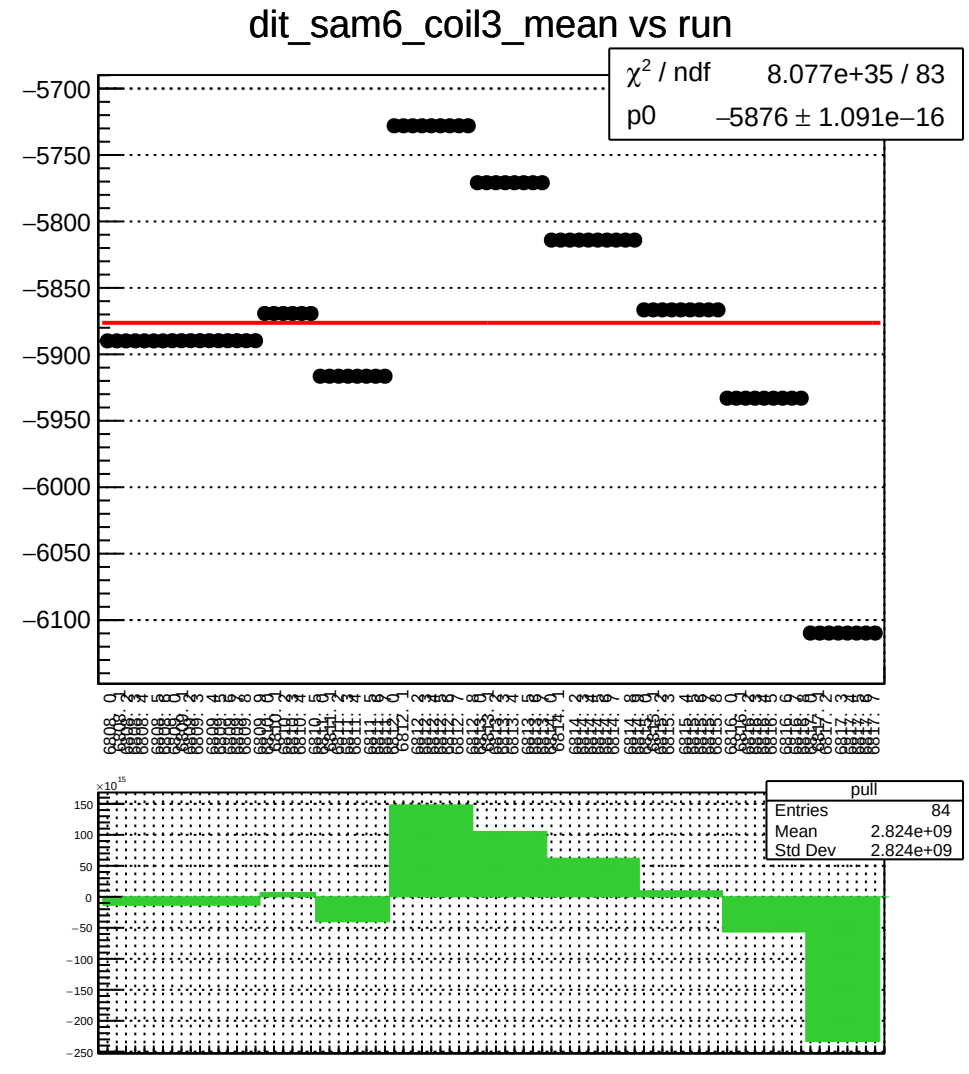

pull1D
Entries 84
Mean 0
Std Dev 0

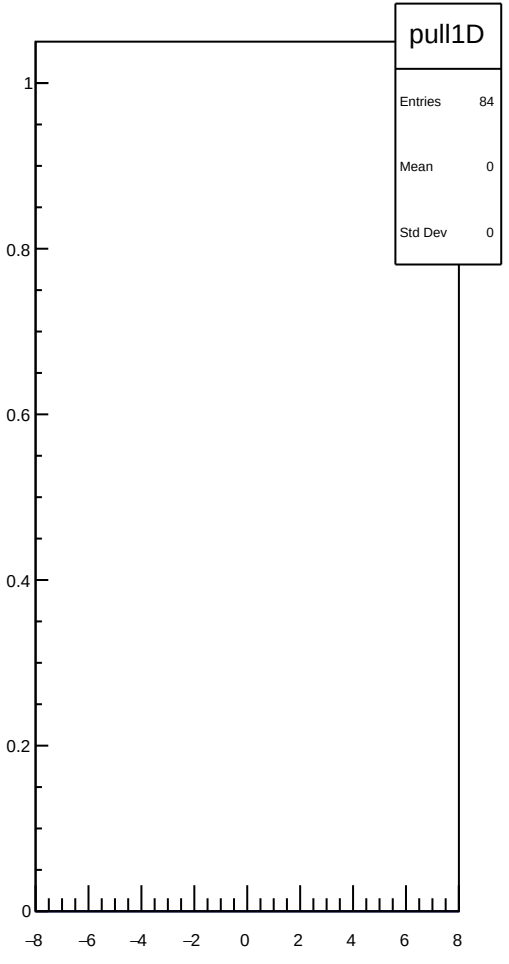

dit_sam5_coil3_err_mean vs run
χ² / ndf 2.296e+33 / 83
p0 50.05 ± 1.091e−16
62
60
58
56
54
52
50
48
46
44
×10¹²
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 1.974e+09
Std Dev 1.974e+09

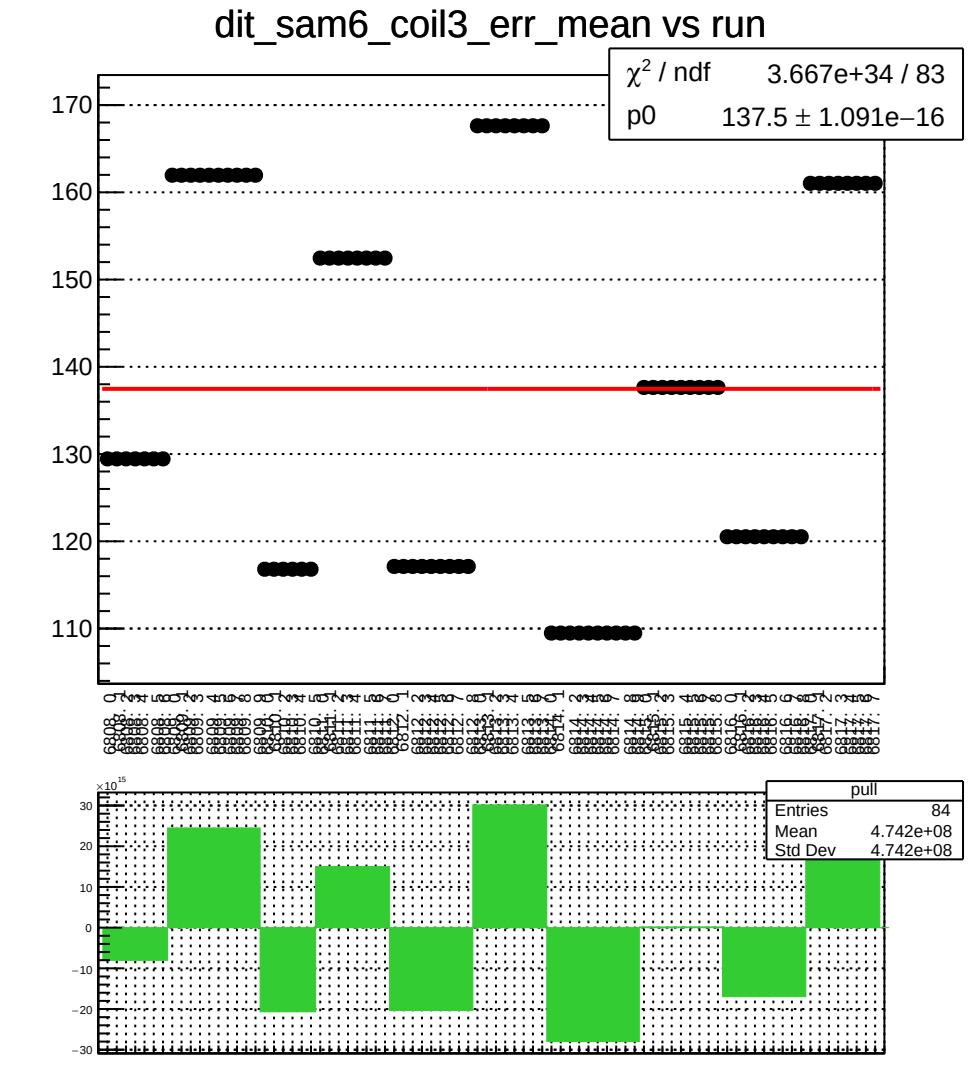

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

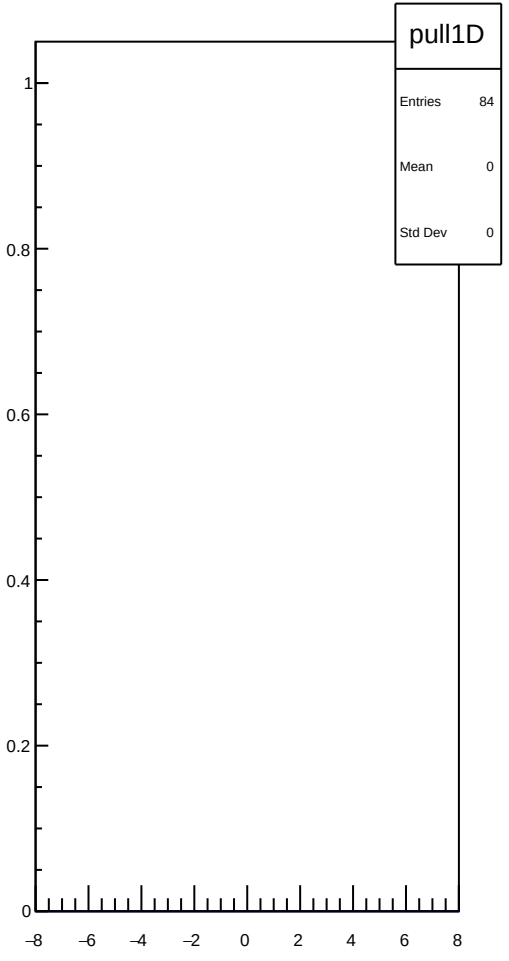

dit_sam5_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07
×10¹⁵
600
400
200
0
−200
−400
−600

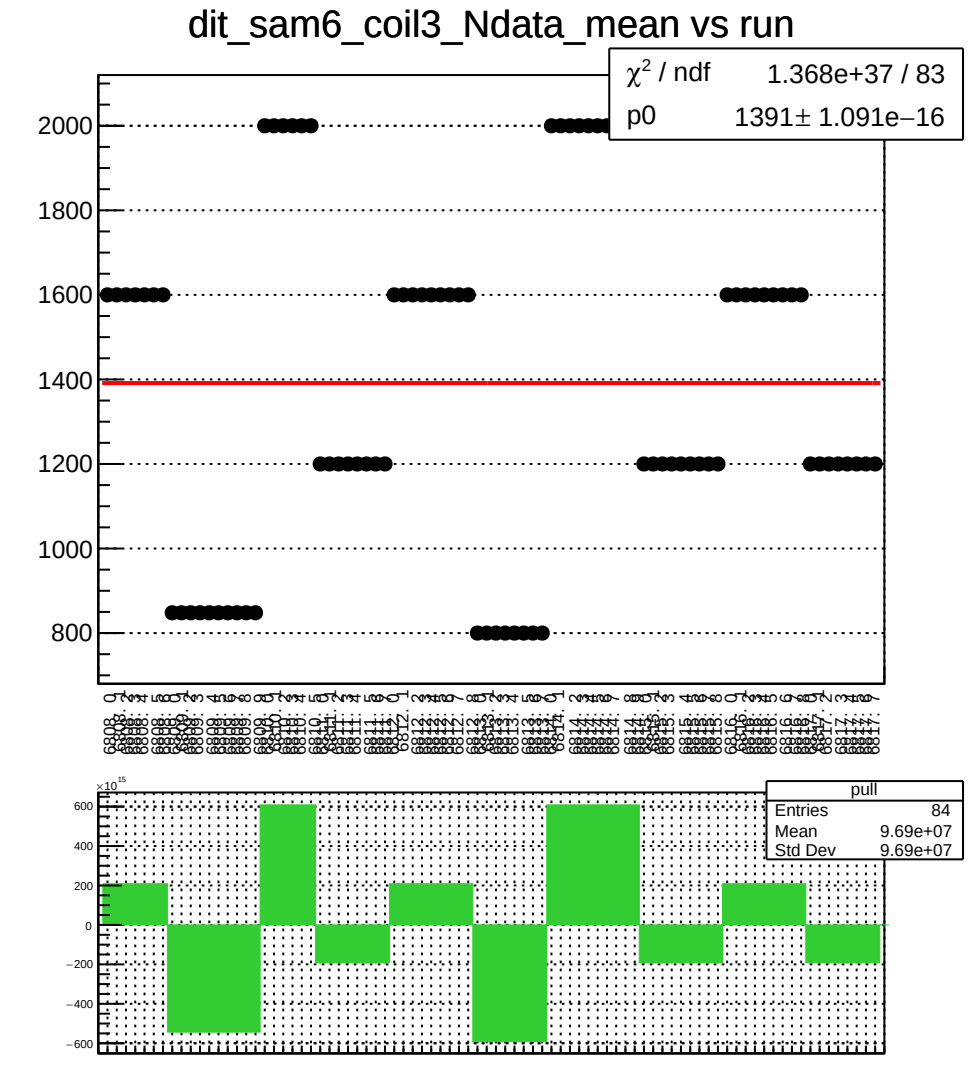

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

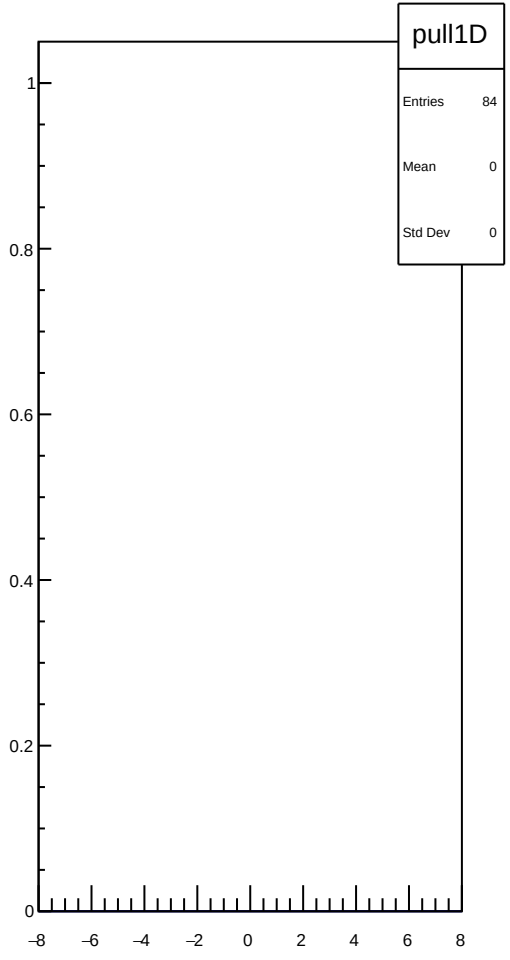

dit_sam6_coil3_mean vs run
χ² / ndf 8.077e+35 / 83
p0 −5876 ± 1.091e−16
−5700
−5750
−5800
−5850
−5900
−5950
−6000
−6050
−6100
pull
Entries 84
Mean 2.824e+09
Std Dev 2.824e+09
×10¹⁵
150
100
50
0
−50
−100
−150
−200
−250

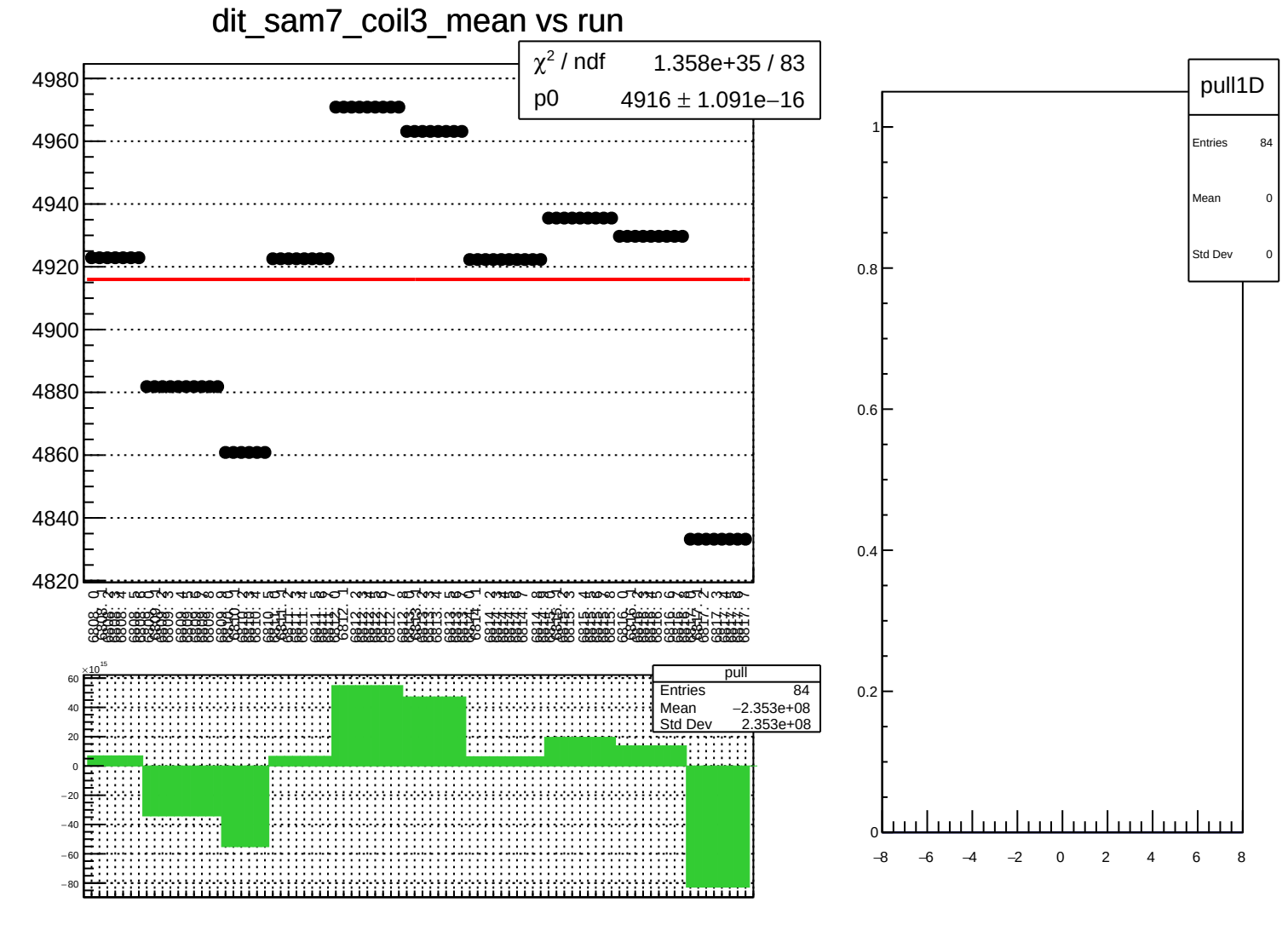

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

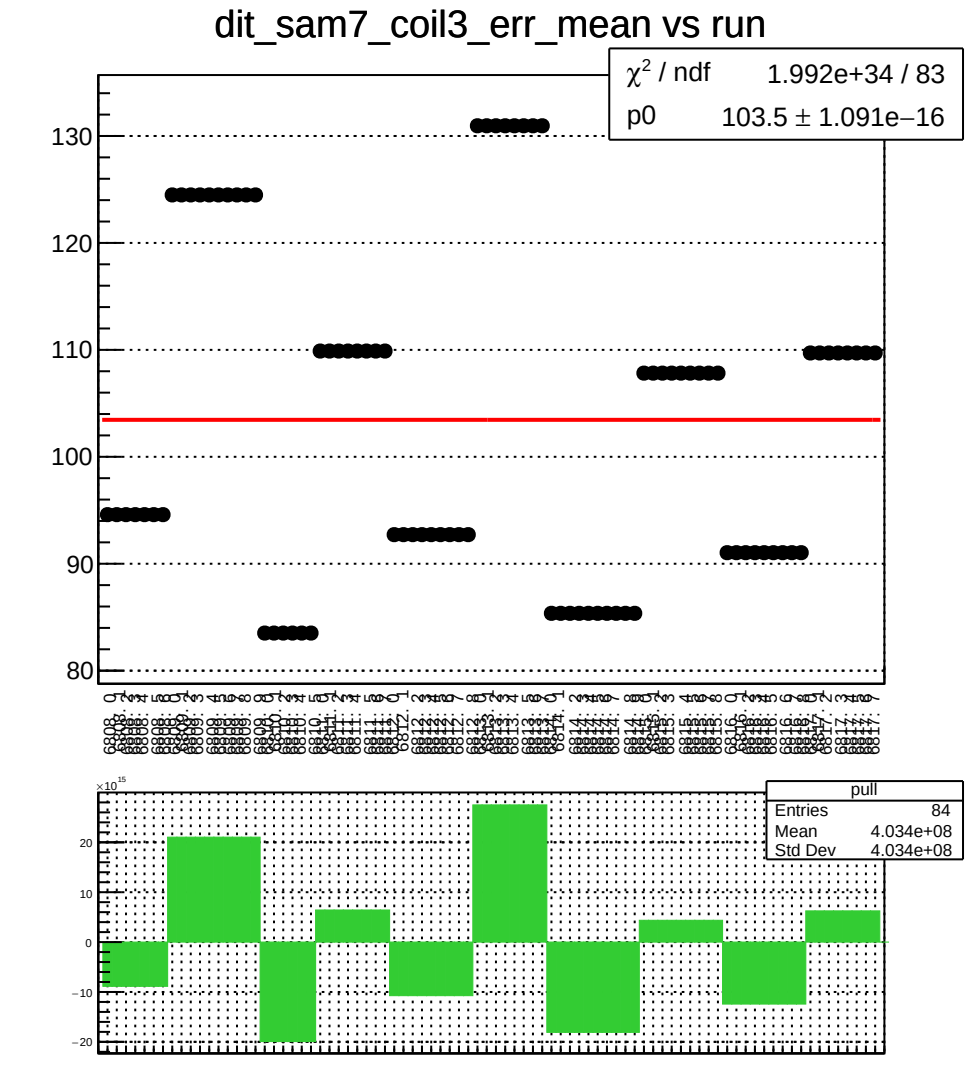

dit_sam6_coil3_err_mean vs run
χ² / ndf 3.667e+34 / 83
p0 137.5 ± 1.091e−16
170
160
150
140
130
120
110
pull
Entries 84
Mean 4.742e+08
Std Dev 4.742e+08
×10¹⁵
30
20
10
0
−10
−20
−30

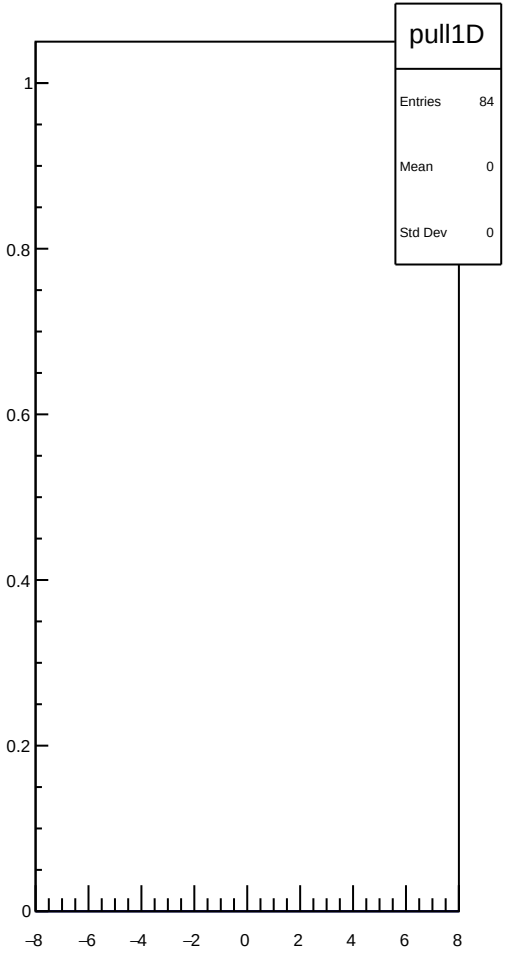

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

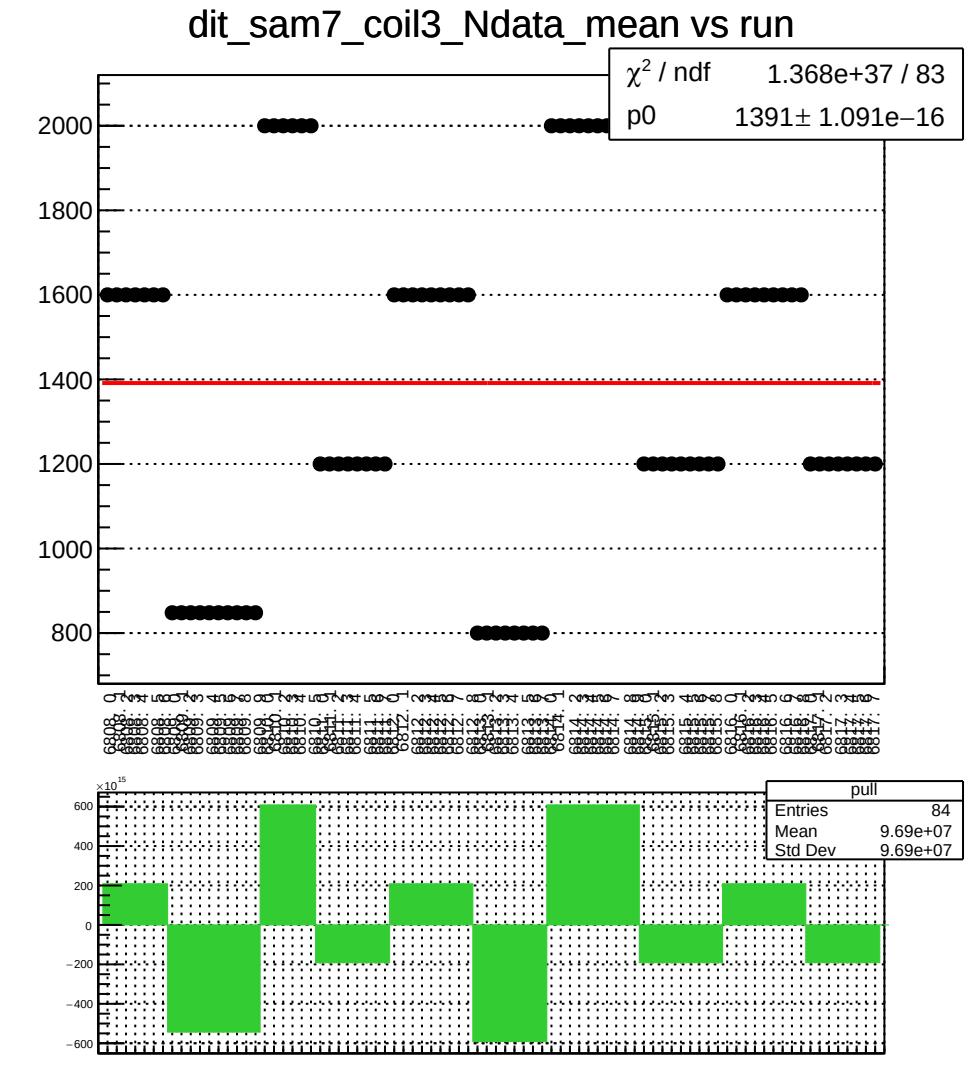

dit_sam6_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
×10¹⁵
600
400
200
0
−200
−400
−600
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07

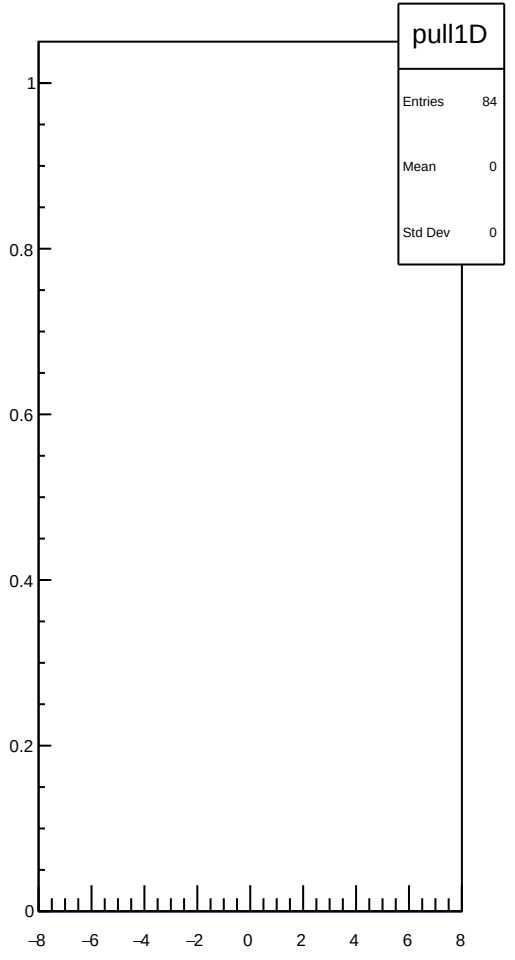

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

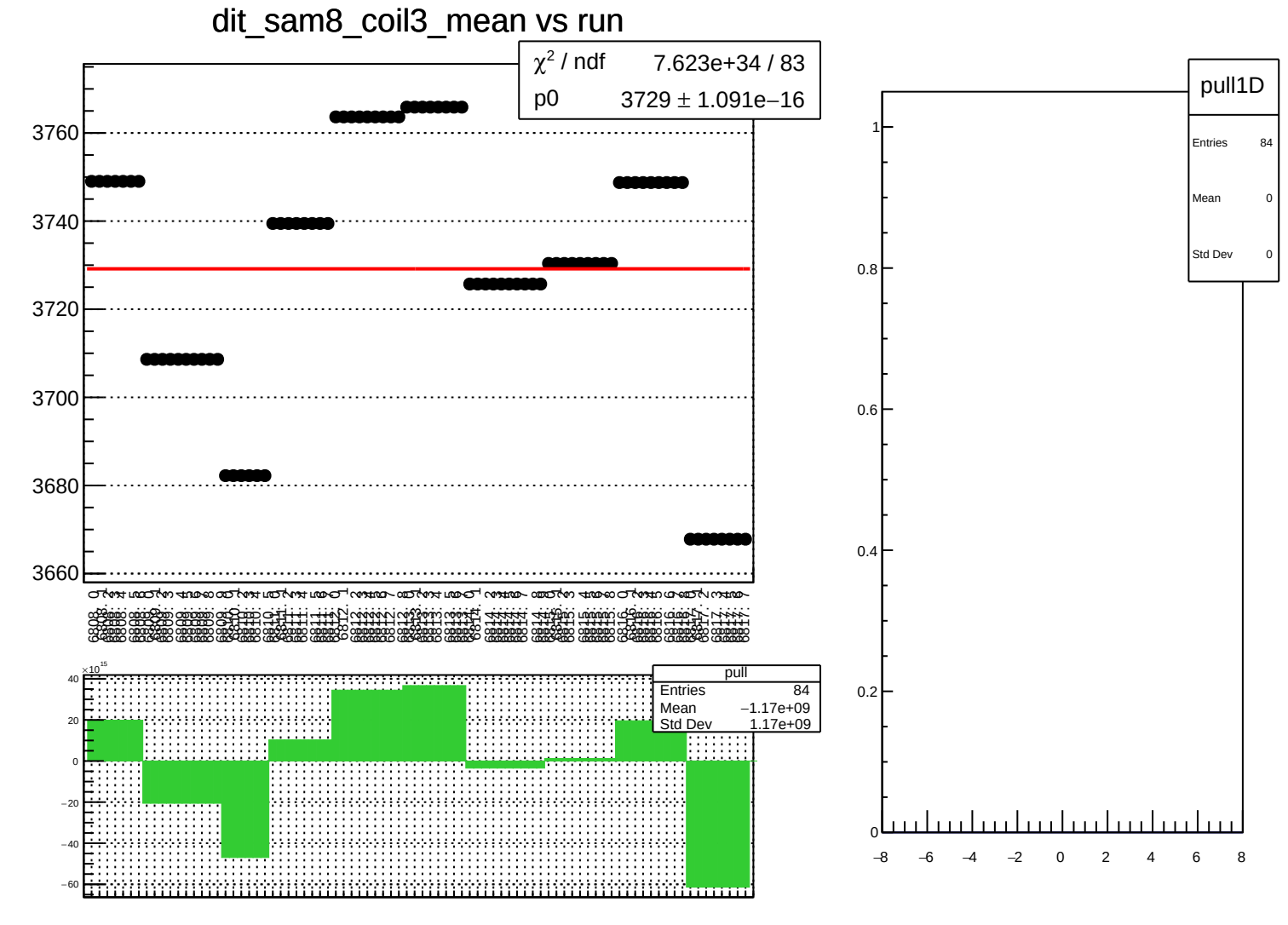

dit_sam7_coil3_mean vs run
χ² / ndf 1.358e+35 / 83
p0 4916 ± 1.091e−16
4980
4960
4940
4920
4900
4880
4860
4840
4820
pull
Entries 84
Mean −2.353e+08
Std Dev 2.353e+08
×10¹⁵
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

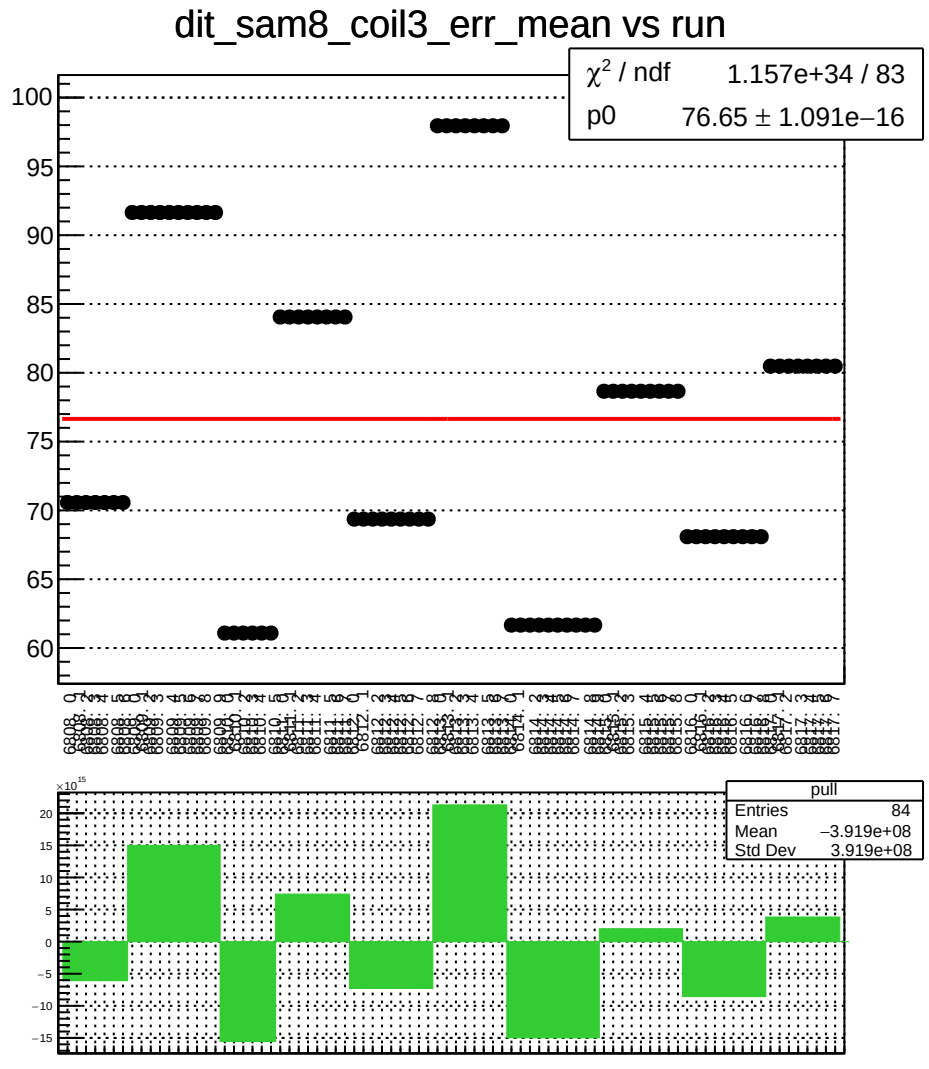

dit_sam7_coil3_err_mean vs run
χ² / ndf 1.992e+34 / 83
p0 103.5 ± 1.091e−16
130
120
110
100
90
80
×10¹⁵
20
10
0
−10
−20
pull
Entries 84
Mean 4.034e+08
Std Dev 4.034e+08

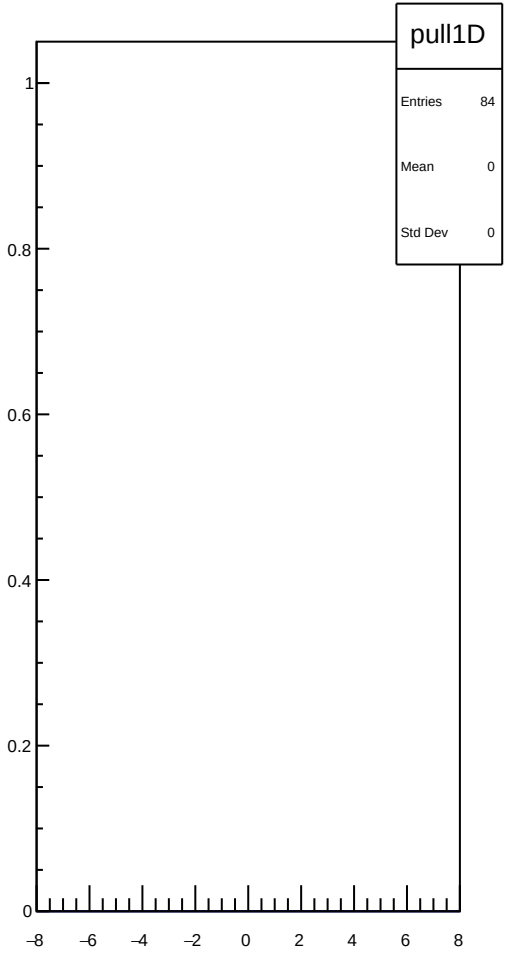

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

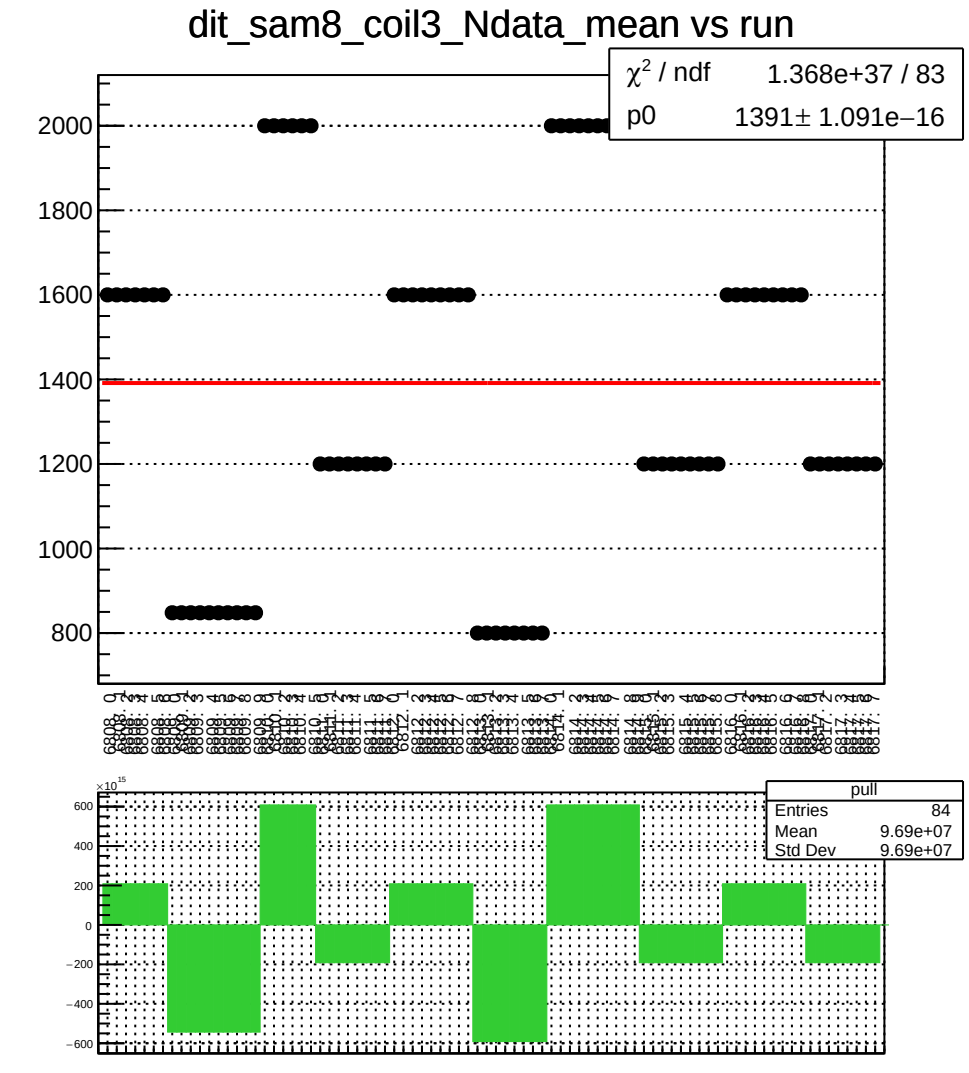

dit_sam7_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07
×10¹⁵
600
400
200
0
−200
−400
−600

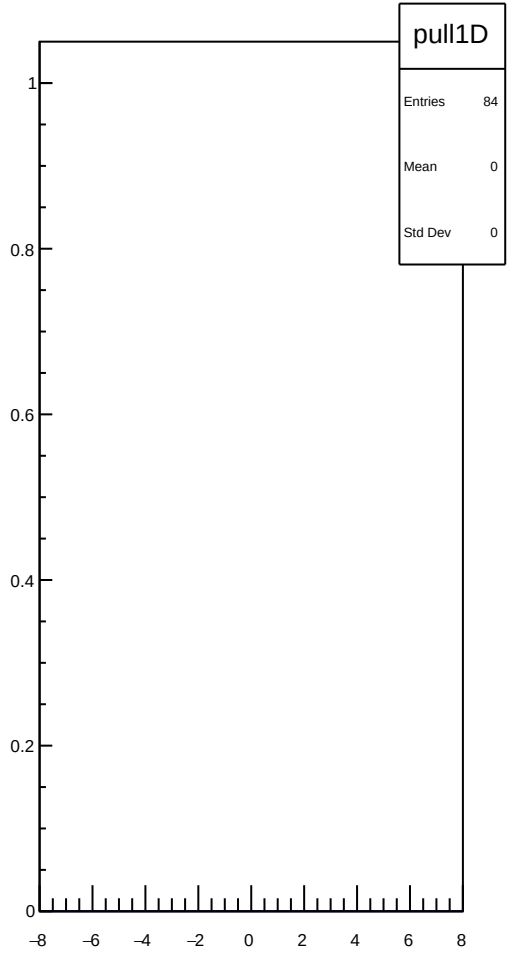

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

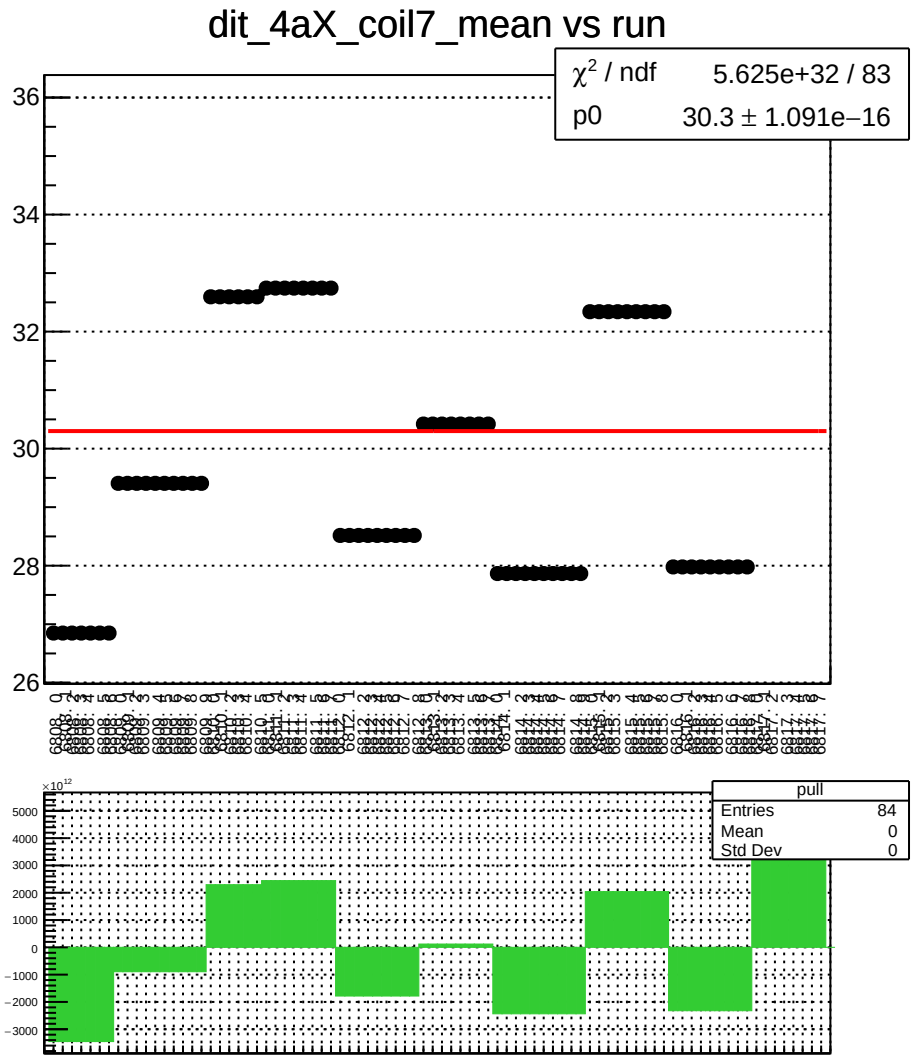

dit_sam8_coil3_mean vs run
χ² / ndf 7.623e+34 / 83
p0 3729 ± 1.091e−16
3760
3740
3720
3700
3680
3660
pull
Entries 84
Mean −1.17e+09
Std Dev 1.17e+09
×10¹⁵
40
20
0
−20
−40
−60
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

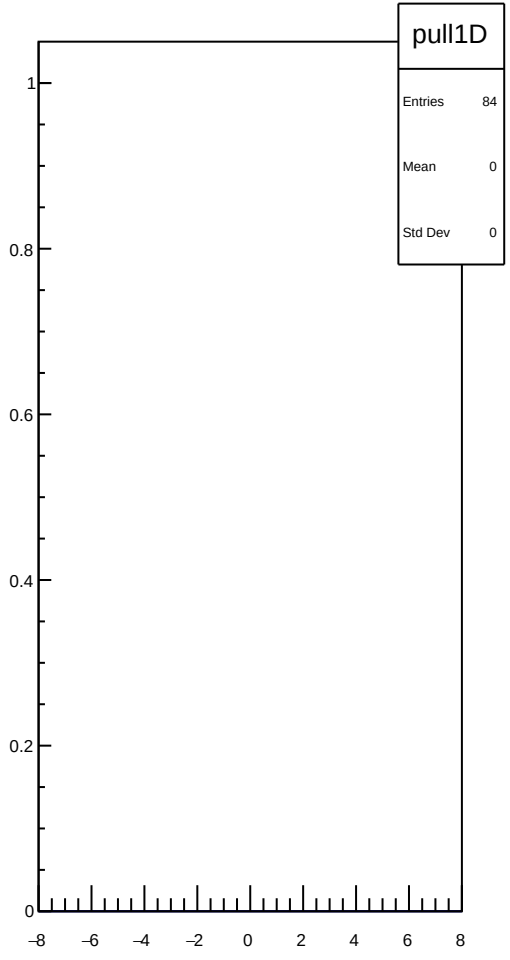

dit_sam8_coil3_err_mean vs run
χ² / ndf 1.157e+34 / 83
p0 76.65 ± 1.091e−16
pull
Entries 84
Mean −3.919e+08
Std Dev 3.919e+08

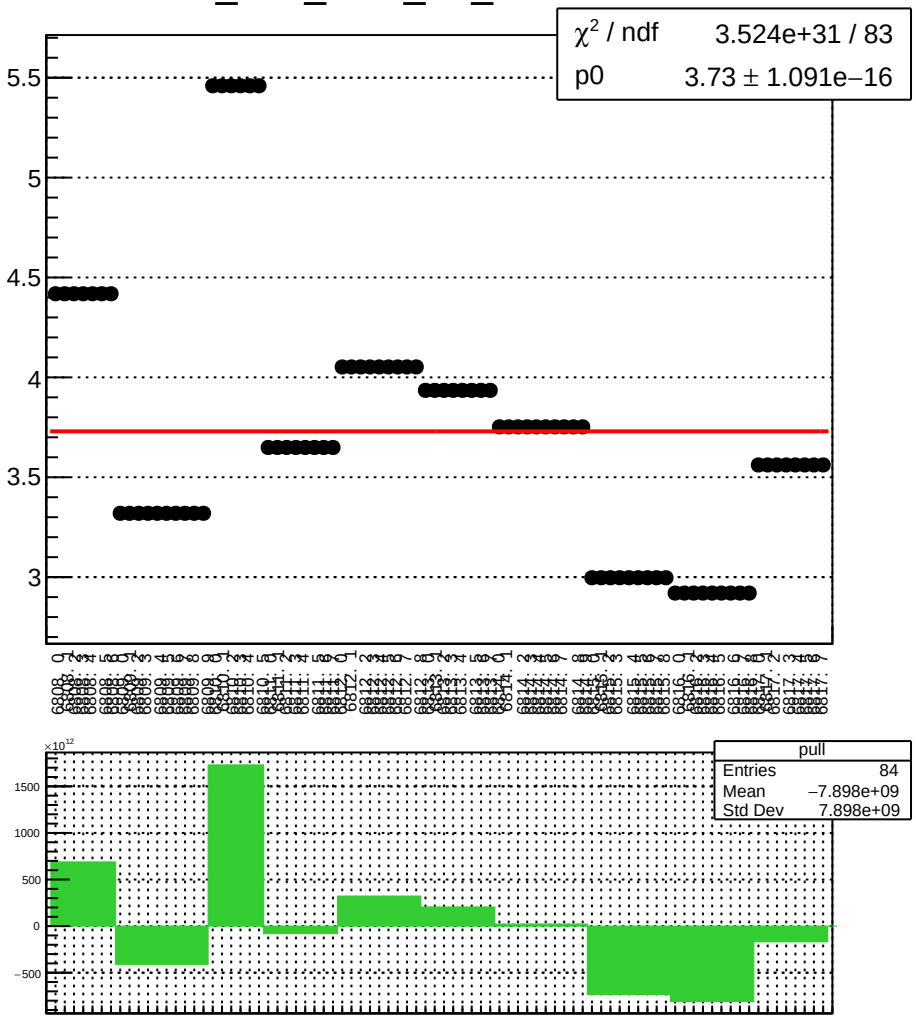

pull1D
Entries 84
Mean 0
Std Dev 0

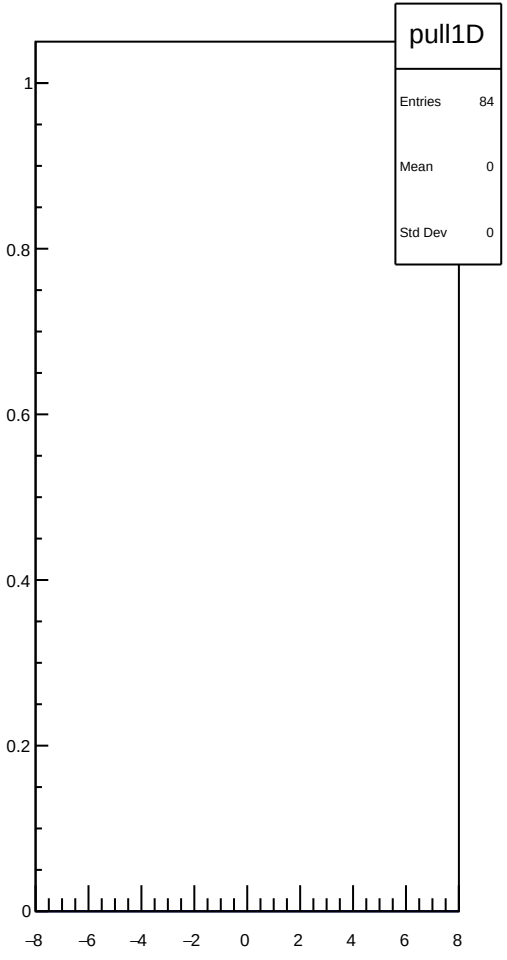

dit_sam8_coil3_Ndata_mean vs run
χ² / ndf 1.368e+37 / 83
p0 1391± 1.091e−16
2000
1800
1600
1400
1200
1000
800
pull
Entries 84
Mean 9.69e+07
Std Dev 9.69e+07
×10¹⁵
600
400
200
0
−200
−400
−600

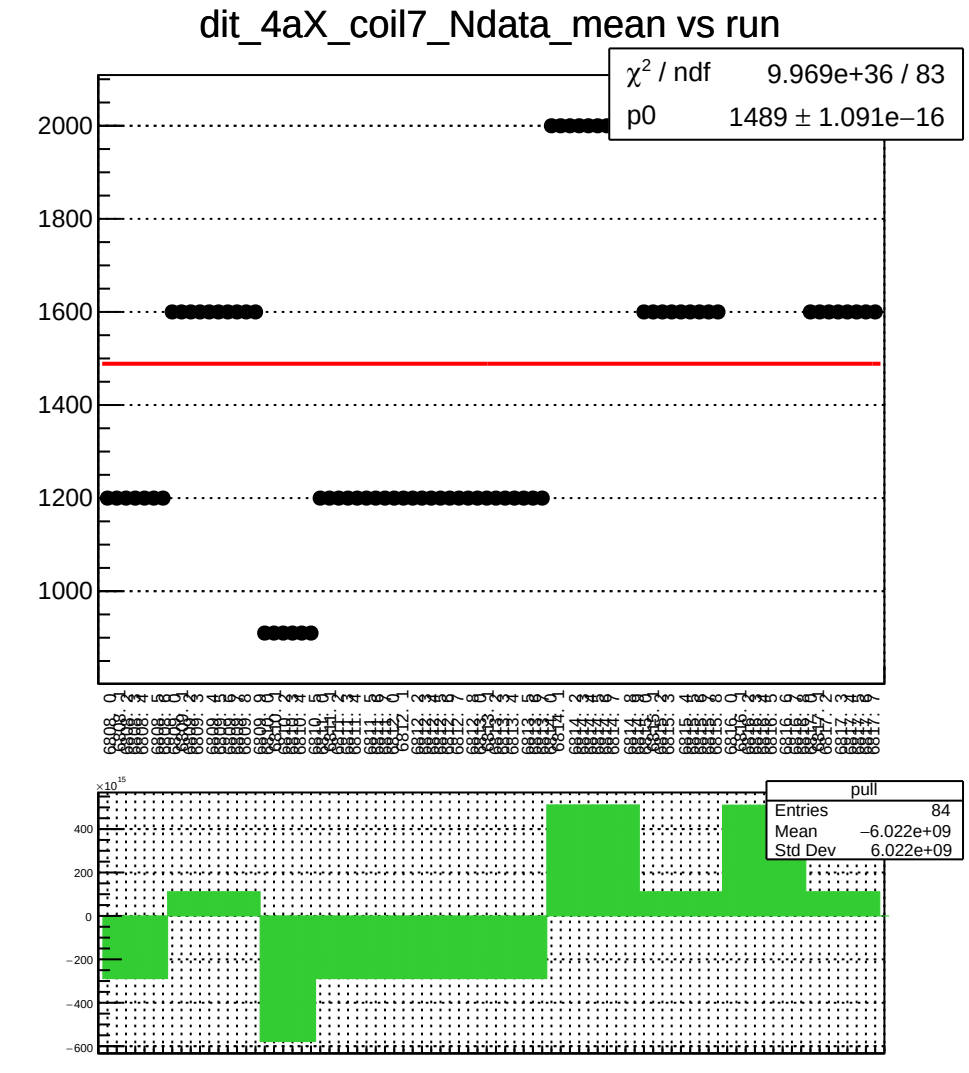

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

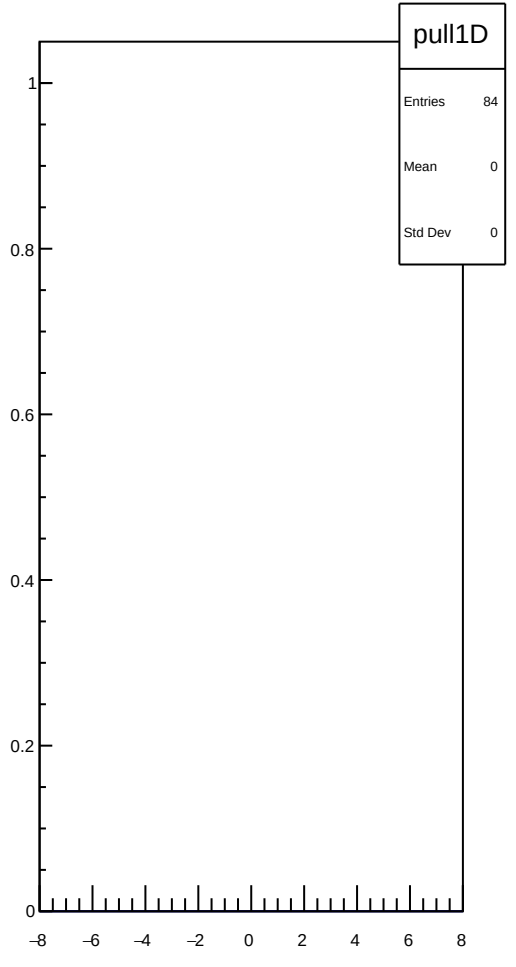

dit_4aX_coil7_mean vs run
χ² / ndf 5.625e+32 / 83
p0 30.3 ± 1.091e−16
pull
Entries 84
Mean 0
Std Dev 0

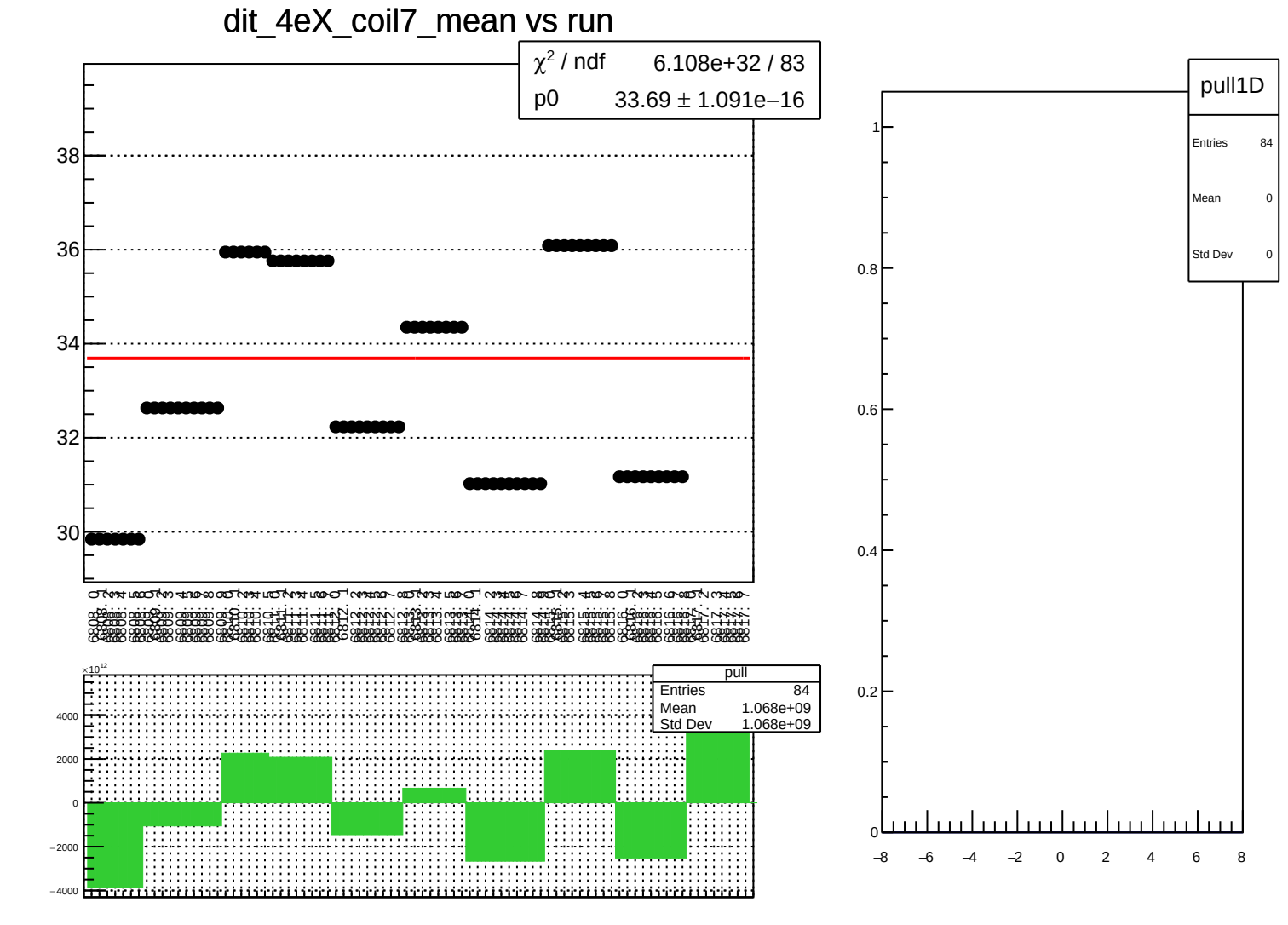

pull1D
Entries 84
Mean 0
Std Dev 0

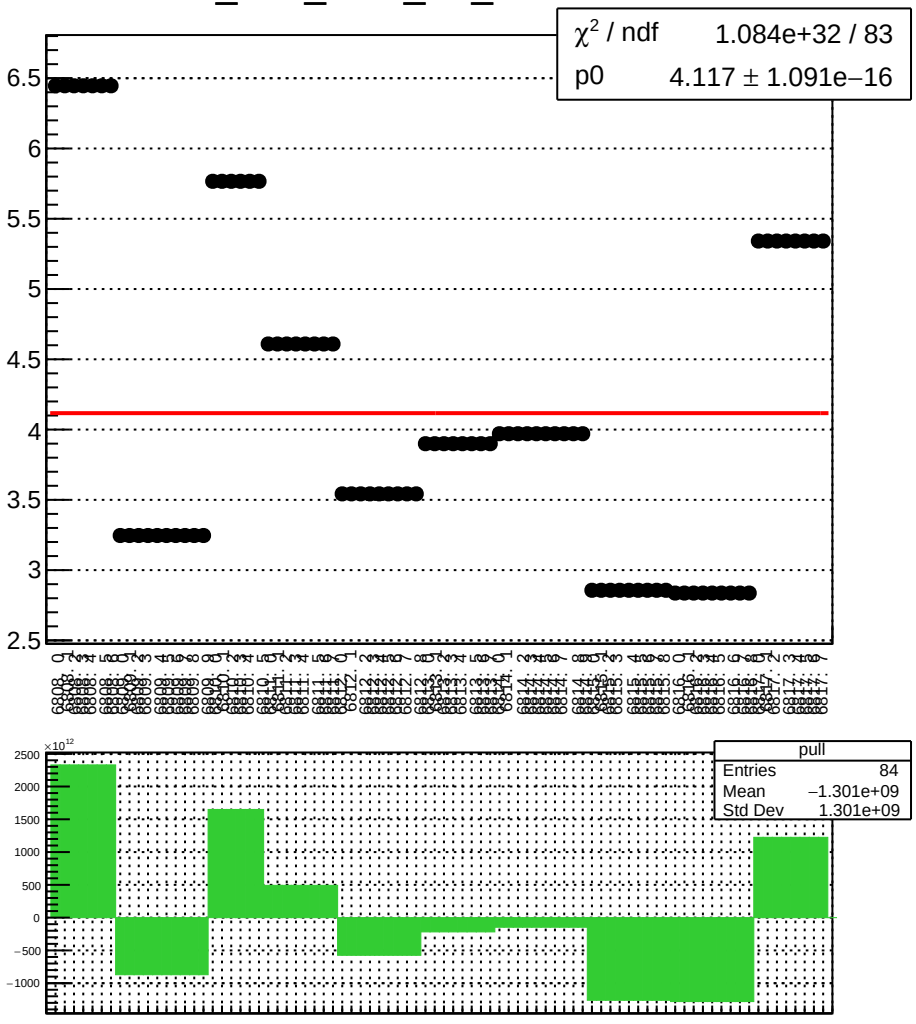

dit_4aX_coil7_err_mean vs run
χ² / ndf 3.524e+31 / 83
p0 3.73 ± 1.091e−16
5.5
5
4.5
4
3.5
3
×10¹²
1500
1000
500
0
−500
pull
Entries 84
Mean −7.898e+09
Std Dev 7.898e+09

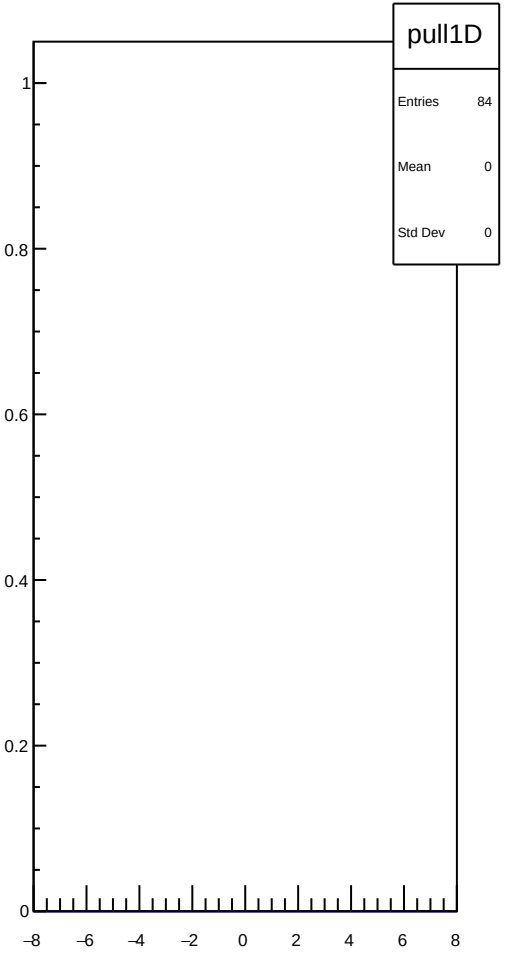

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

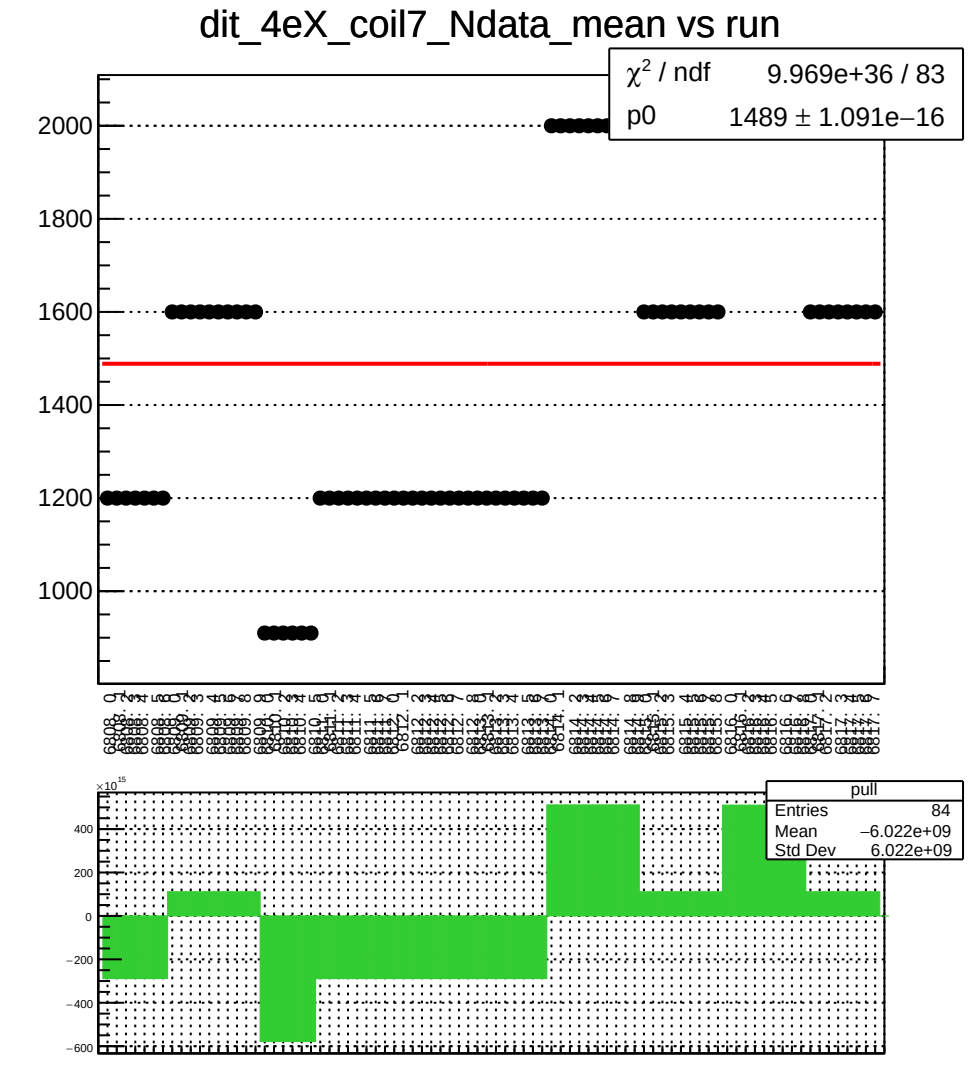

dit_4aX_coil7_Ndata_mean vs run
χ² / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09
×10¹⁵
400
200
0
−200
−400
−600

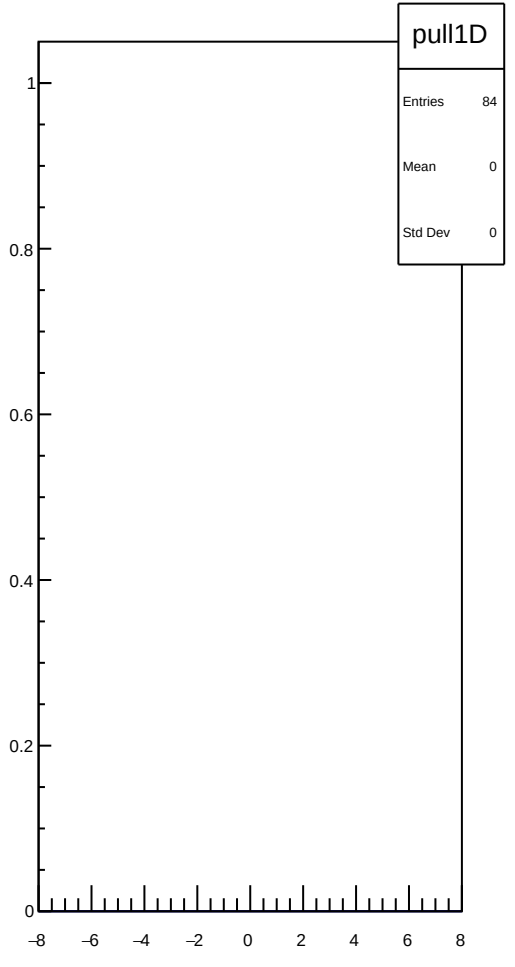

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

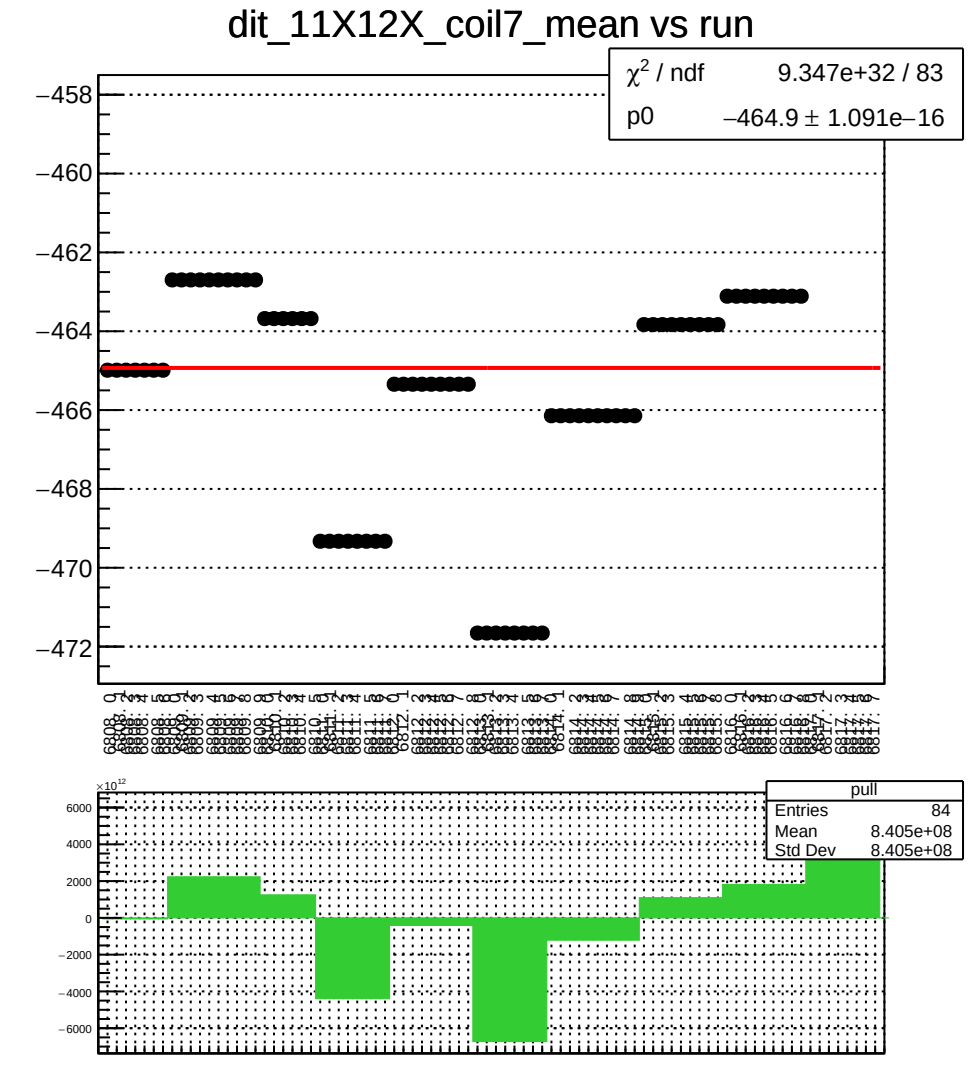

dit_4eX_coil7_mean vs run
χ² / ndf 6.108e+32 / 83
p0 33.69 ± 1.091e−16
38
36
34
32
30
×10¹²
4000
2000
0
−2000
−4000
pull
Entries 84
Mean 1.068e+09
Std Dev 1.068e+09
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

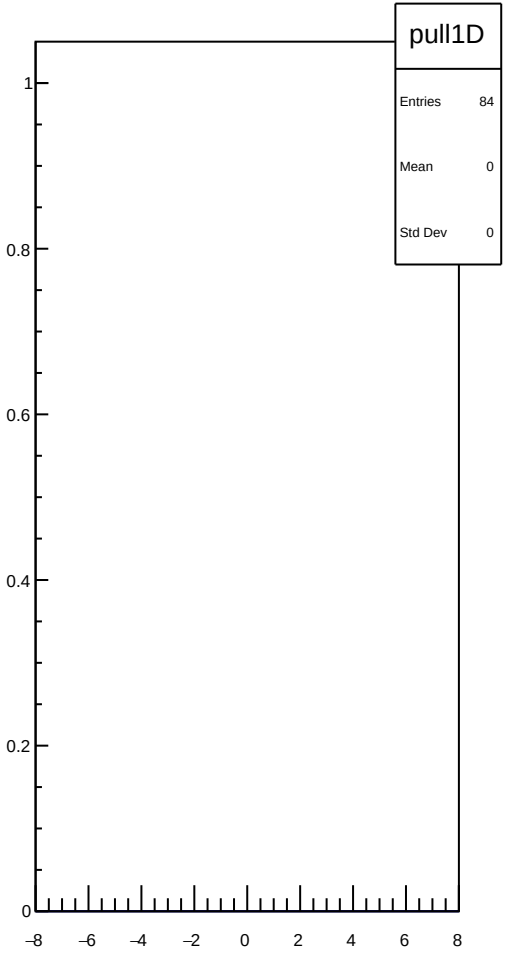

dit_4eX_coil7_err_mean vs run
χ² / ndf 1.084e+32 / 83
p0 4.117 ± 1.091e−16
pull
Entries 84
Mean −1.301e+09
Std Dev 1.301e+09

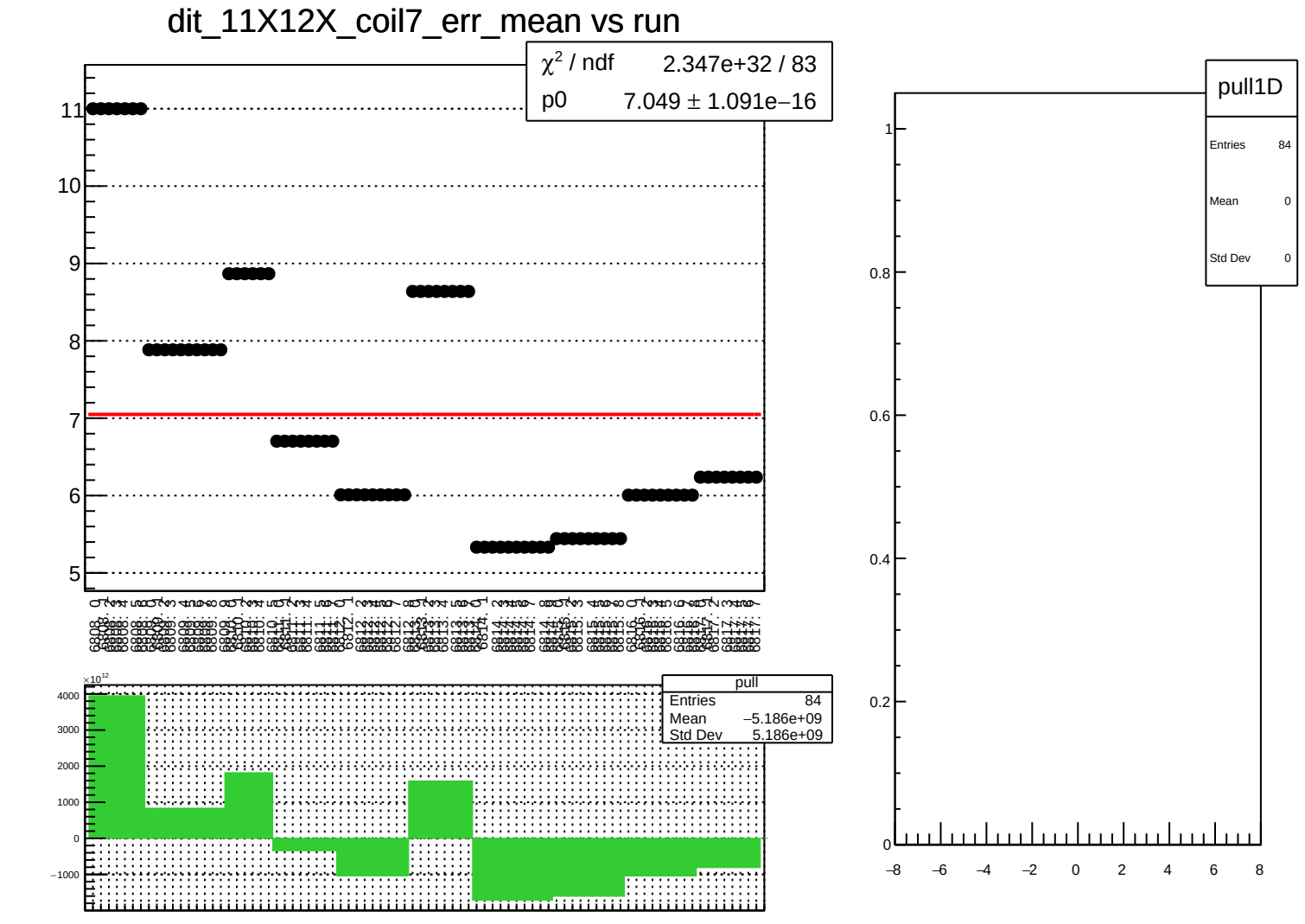

pull1D
Entries 84
Mean 0
Std Dev 0

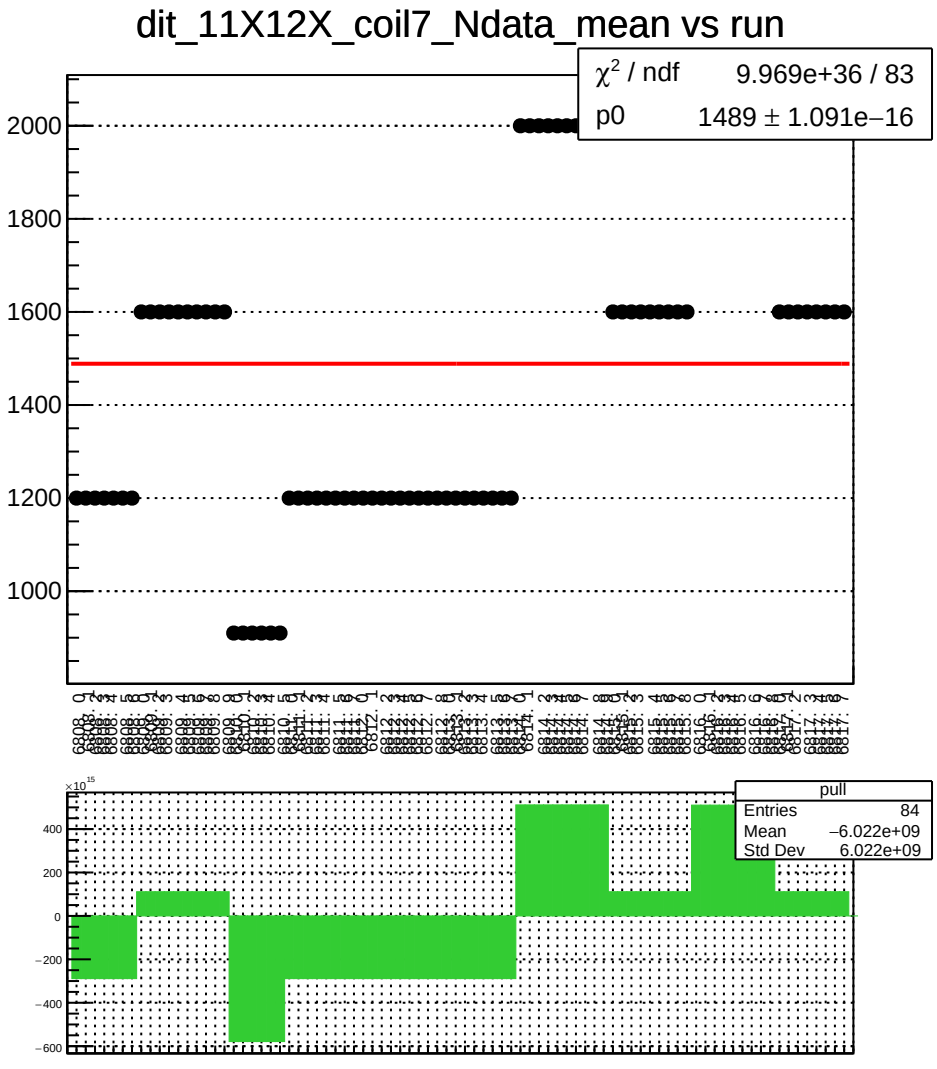

dit_4eX_coil7_Ndata_mean vs run
χ² / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
×10¹⁵
400
200
0
−200
−400
−600
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09

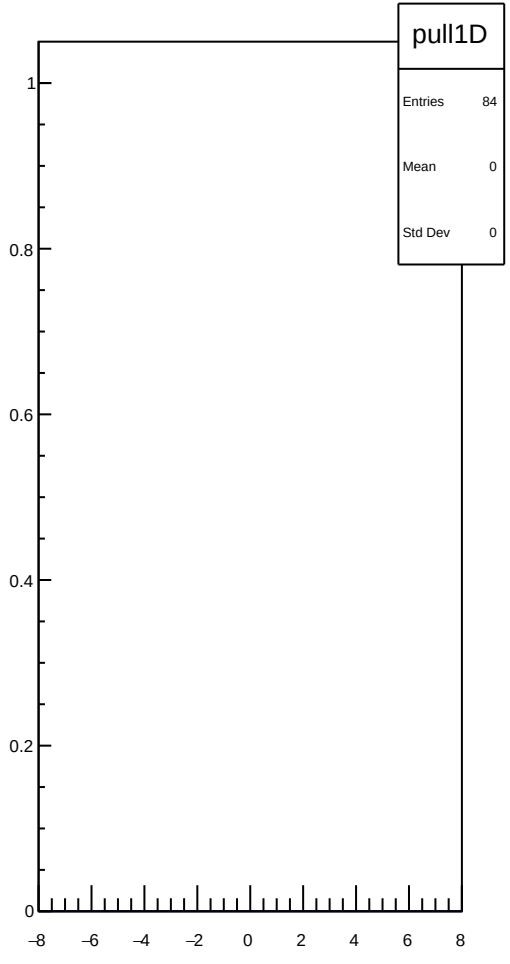

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

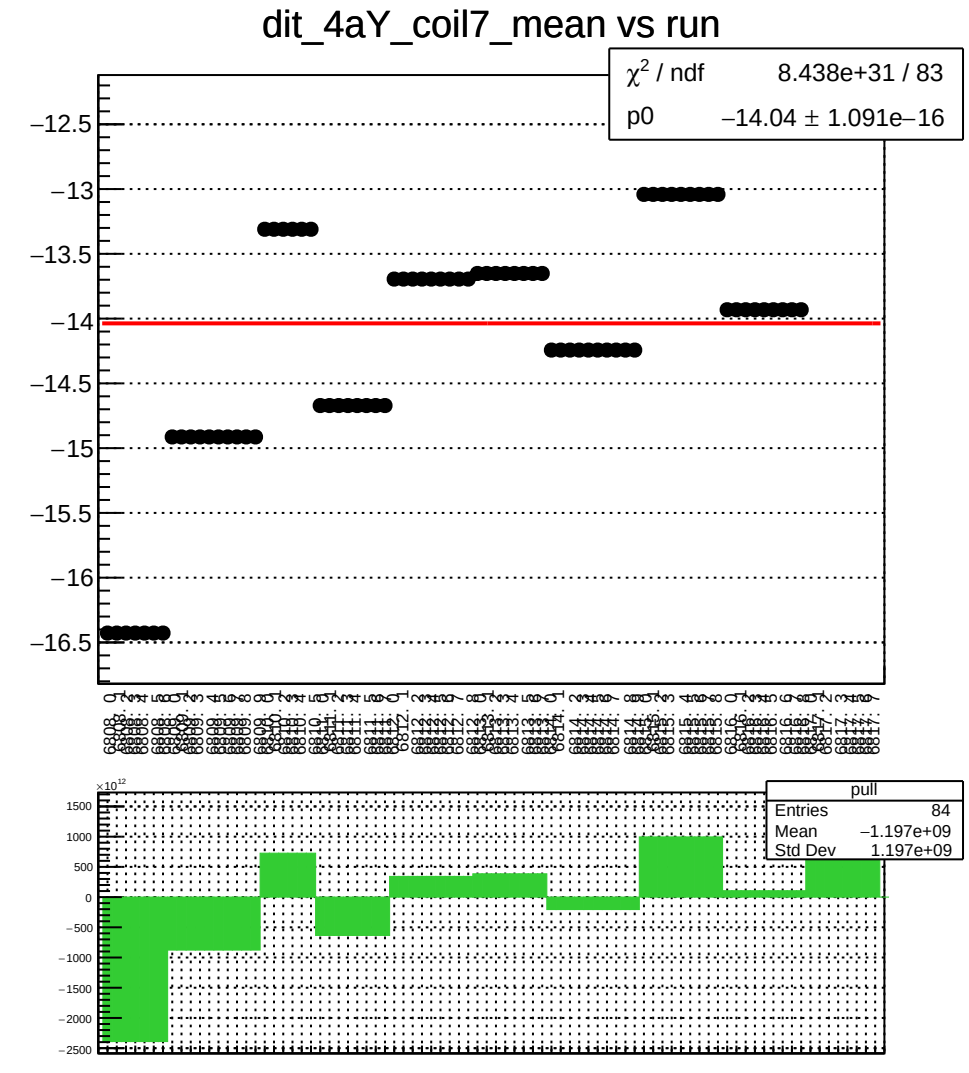

dit_11X12X_coil7_mean vs run
χ² / ndf 9.347e+32 / 83
p0 −464.9 ± 1.091e−16
−458
−460
−462
−464
−466
−468
−470
−472
×10¹²
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 84
Mean 8.405e+08
Std Dev 8.405e+08

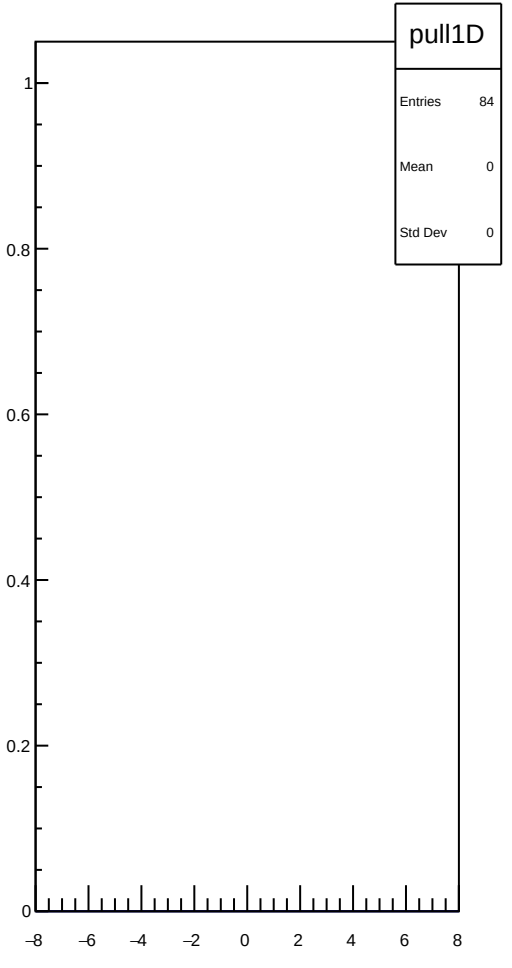

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

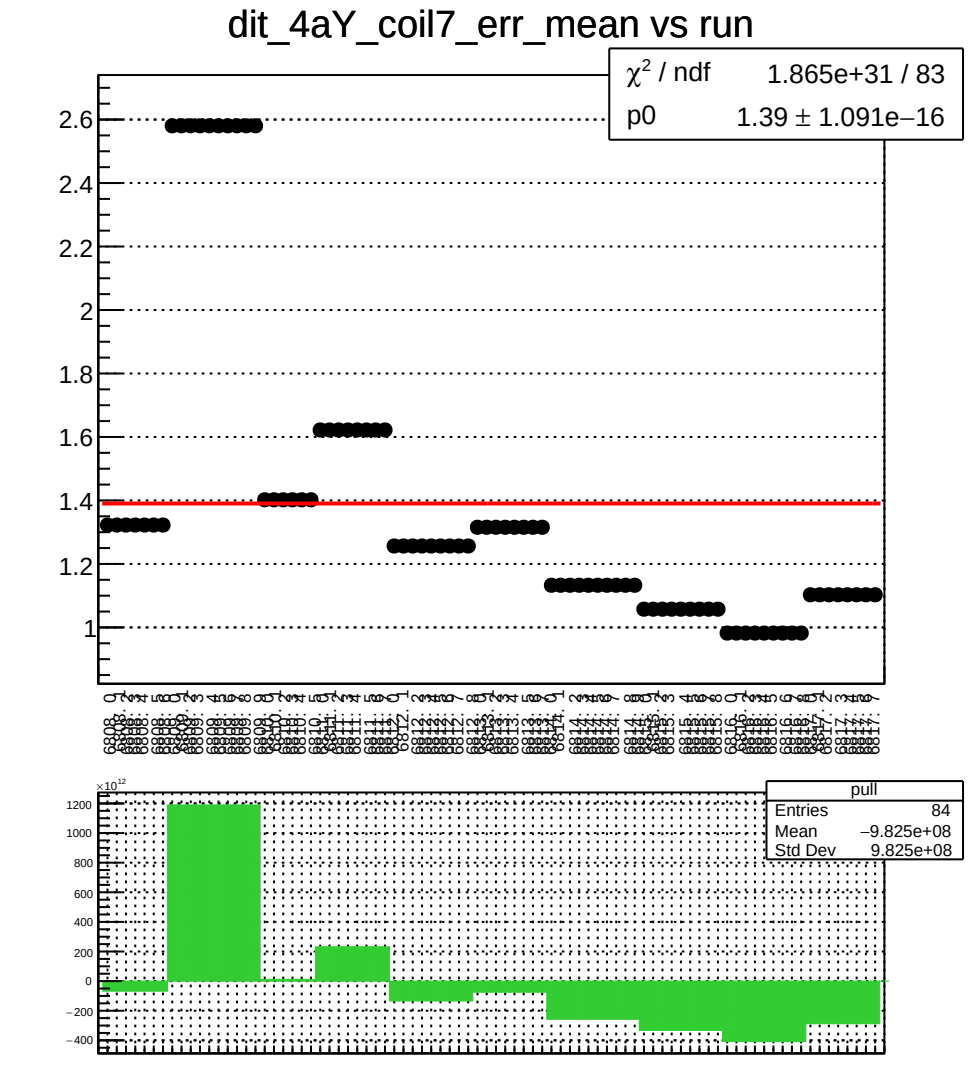

dit_11X12X_coil7_err_mean vs run
χ² / ndf 2.347e+32 / 83
p0 7.049 ± 1.091e−16
pull
Entries 84
Mean −5.186e+09
Std Dev 5.186e+09
pull1D
Entries 84
Mean 0
Std Dev 0

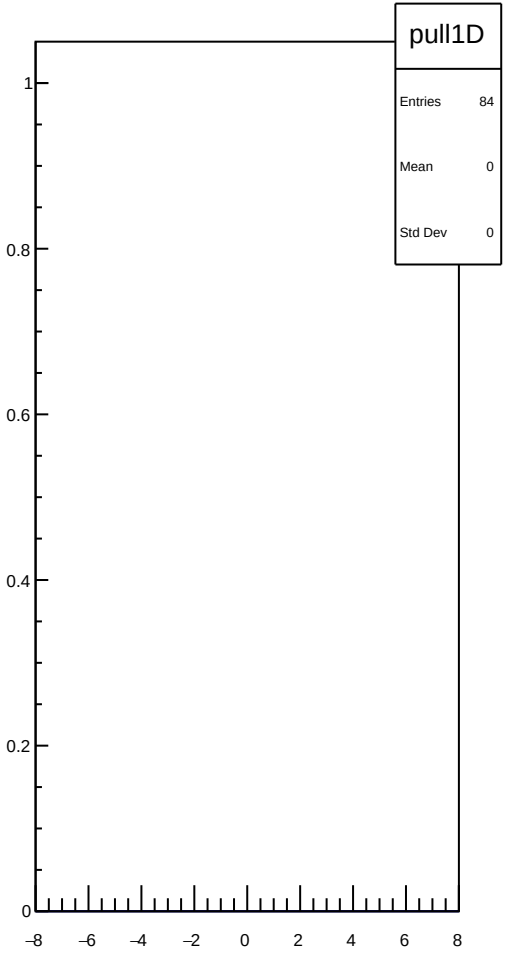

dit_11X12X_coil7_Ndata_mean vs run
χ² / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09
×10¹⁵
400
200
0
−200
−400
−600

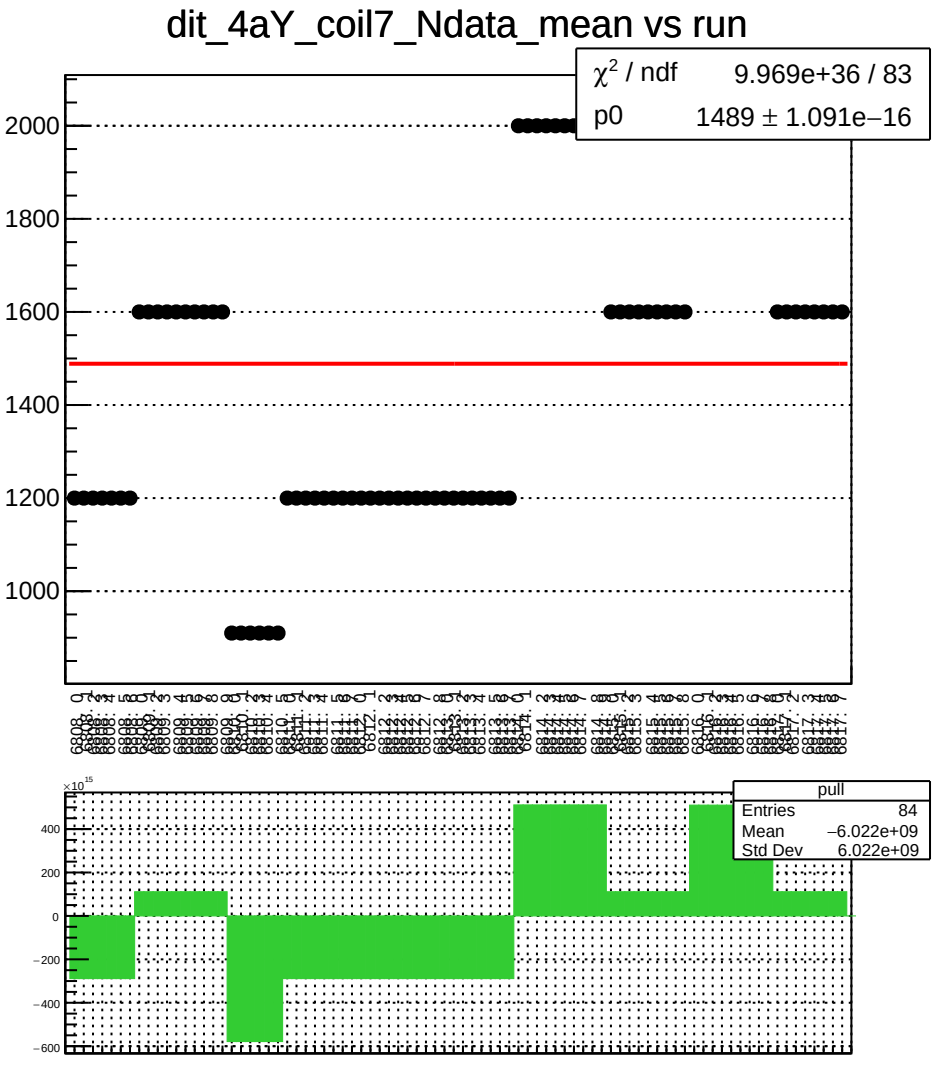

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

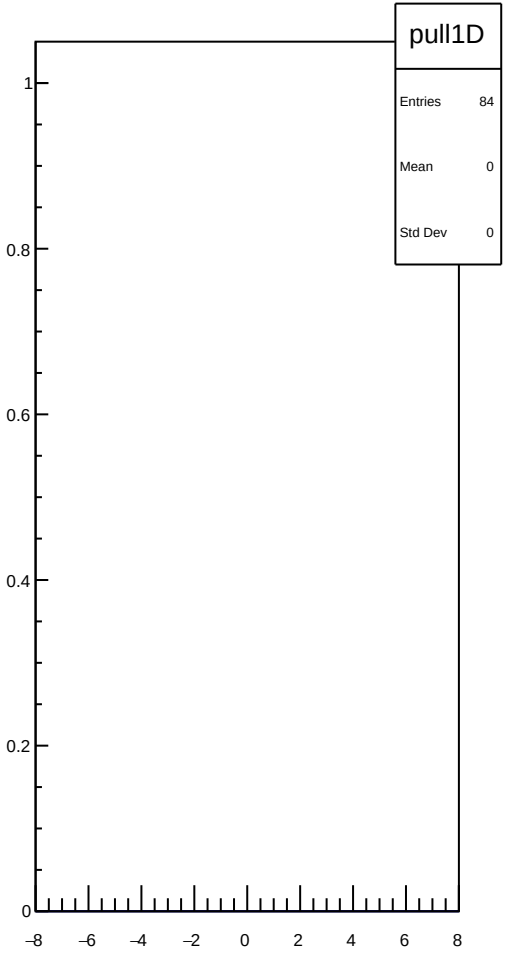

dit_4aY_coil7_mean vs run
χ² / ndf 8.438e+31 / 83
p0 −14.04 ± 1.091e−16
−12.5
−13
−13.5
−14
−14.5
−15
−15.5
−16
−16.5
×10¹²
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
pull
Entries 84
Mean −1.197e+09
Std Dev 1.197e+09

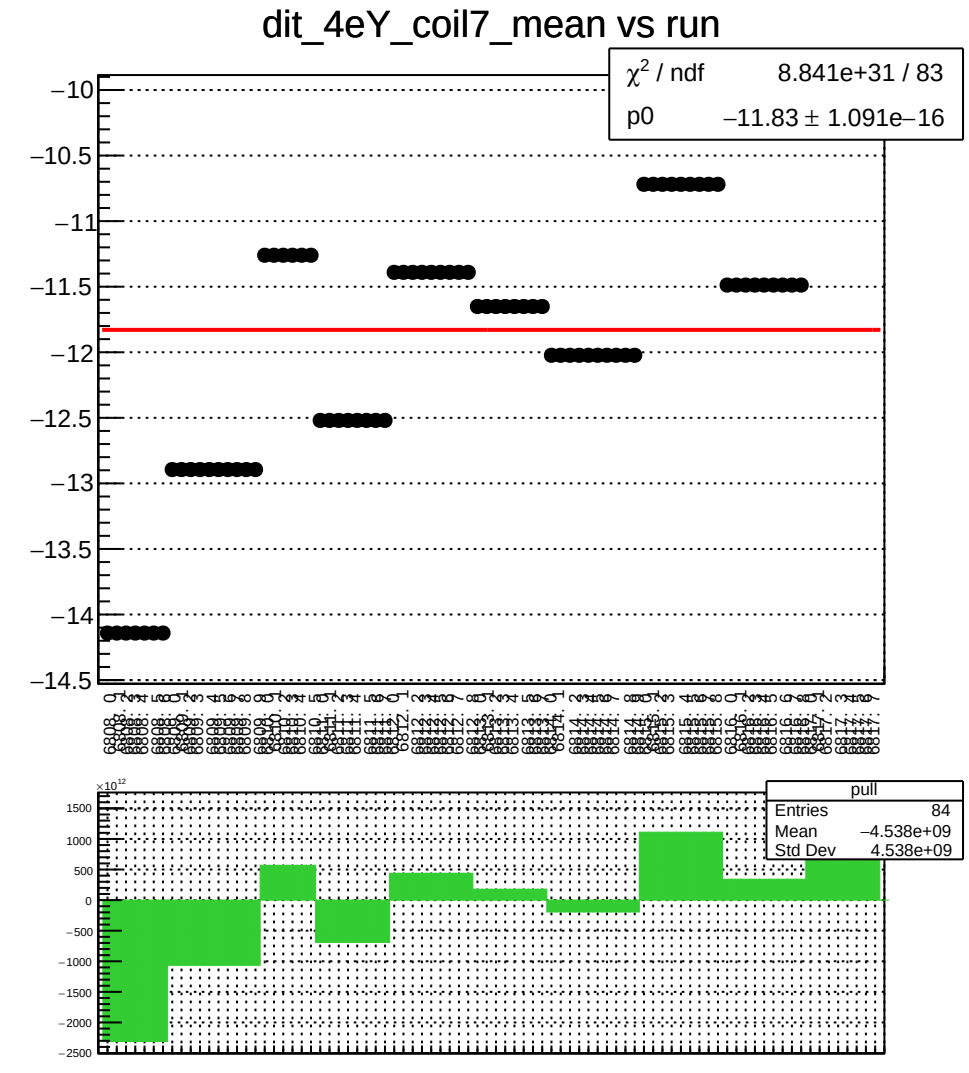

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

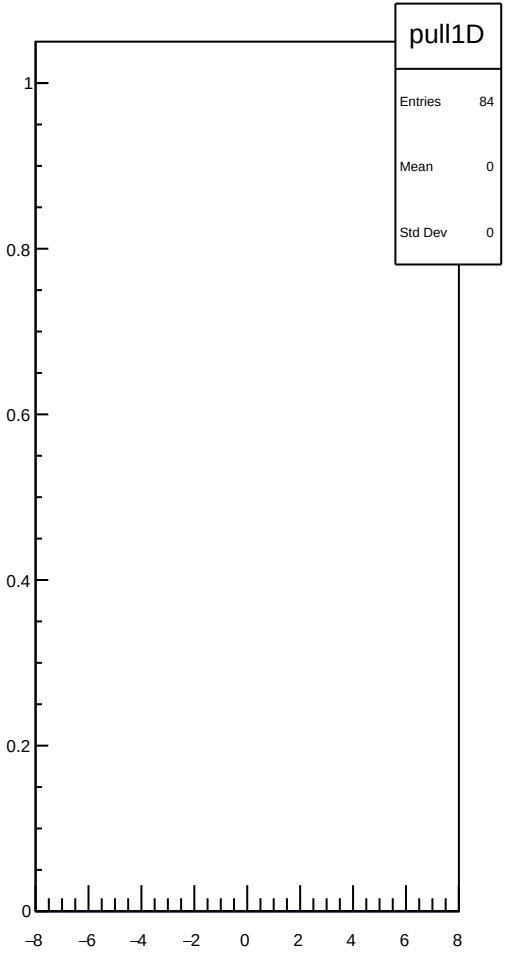

dit_4aY_coil7_err_mean vs run
χ² / ndf 1.865e+31 / 83
p0 1.39 ± 1.091e−16
pull
Entries 84
Mean −9.825e+08
Std Dev 9.825e+08

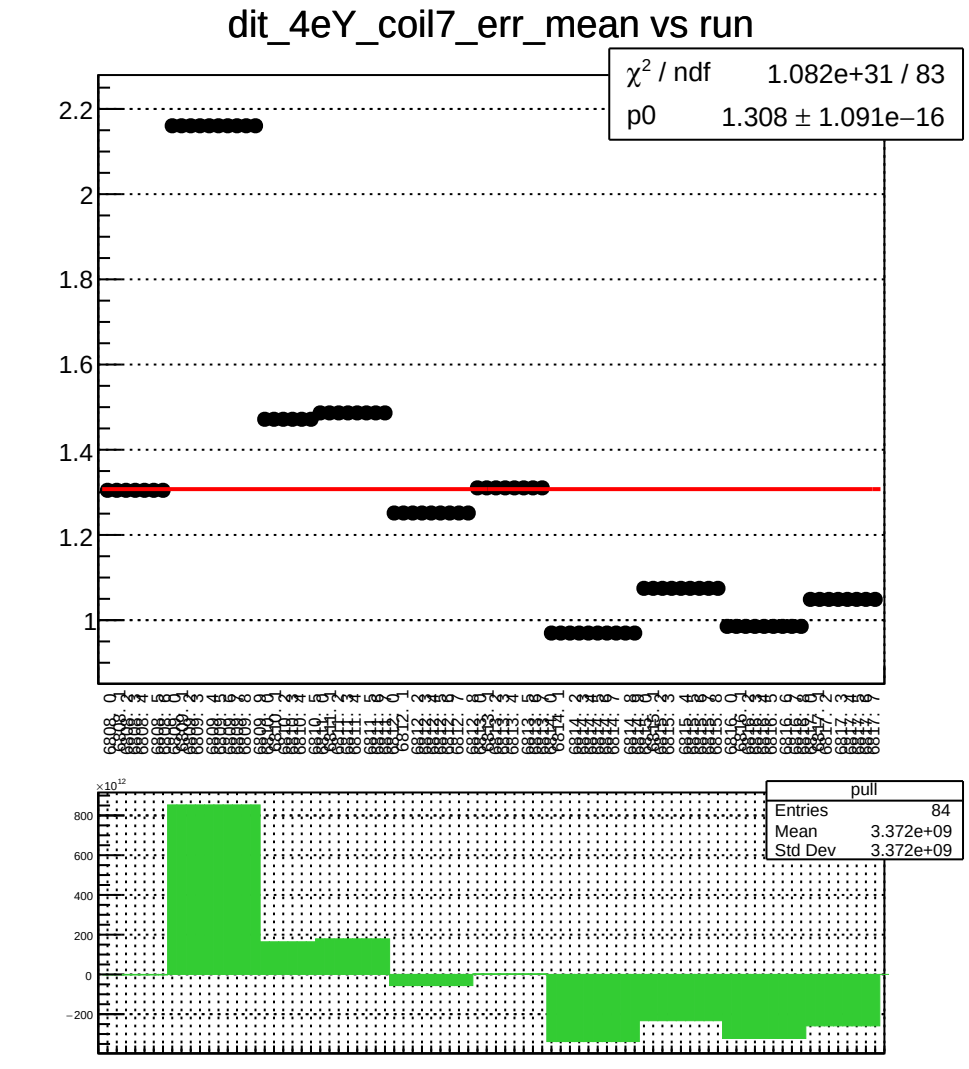

pull1D
Entries 84
Mean 0
Std Dev 0

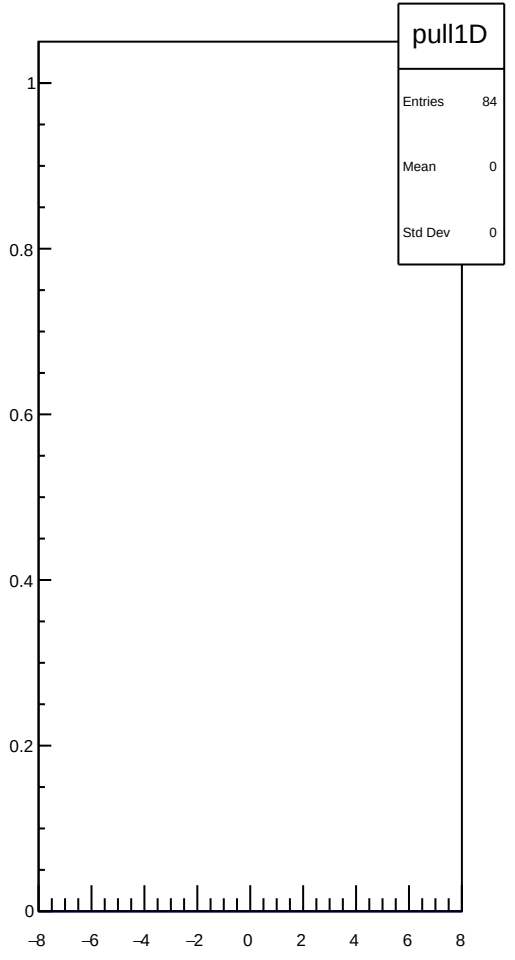

dit_4aY_coil7_Ndata_mean vs run
χ² / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09
×10¹⁵
400
200
0
−200
−400
−600

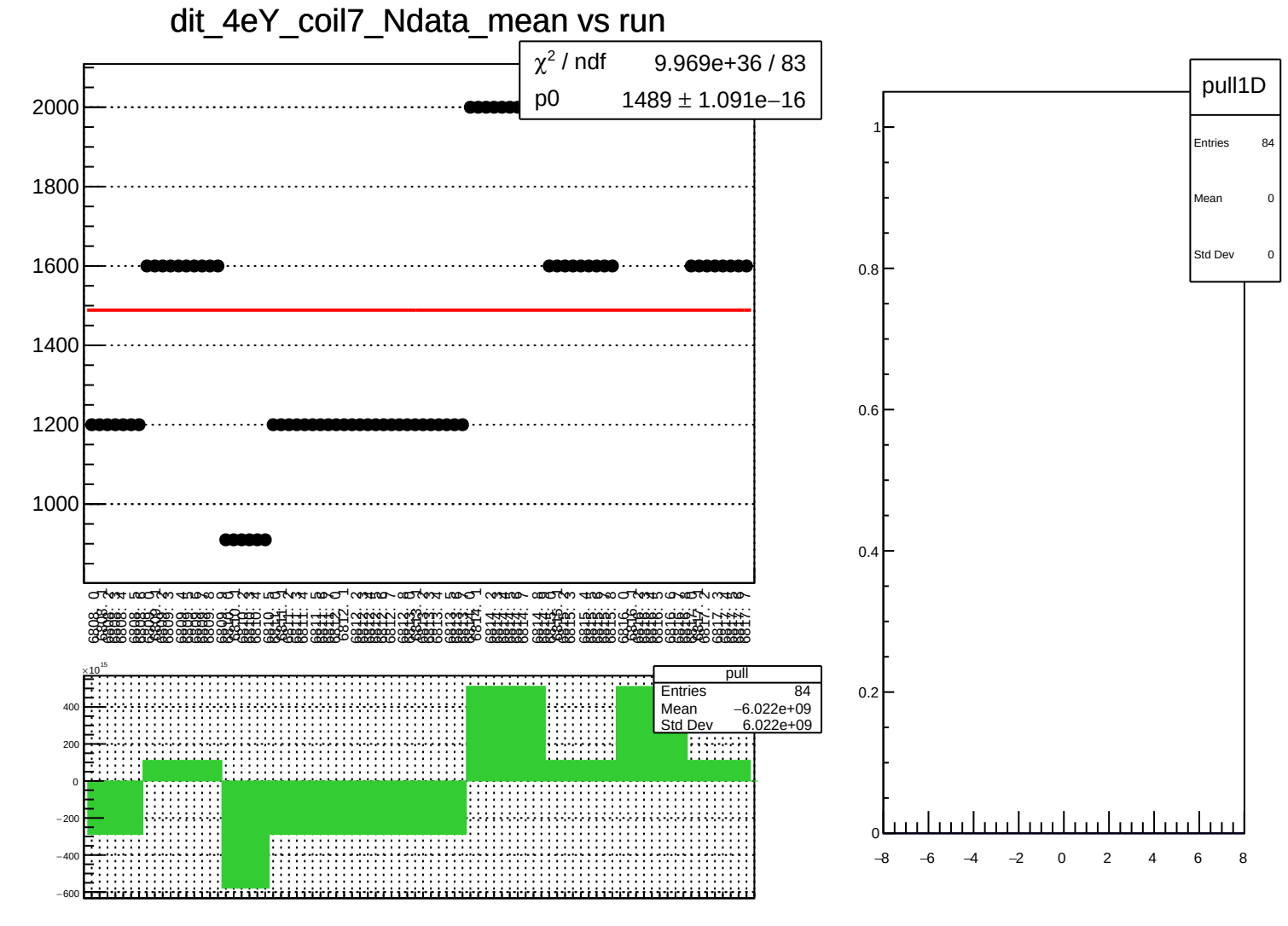

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

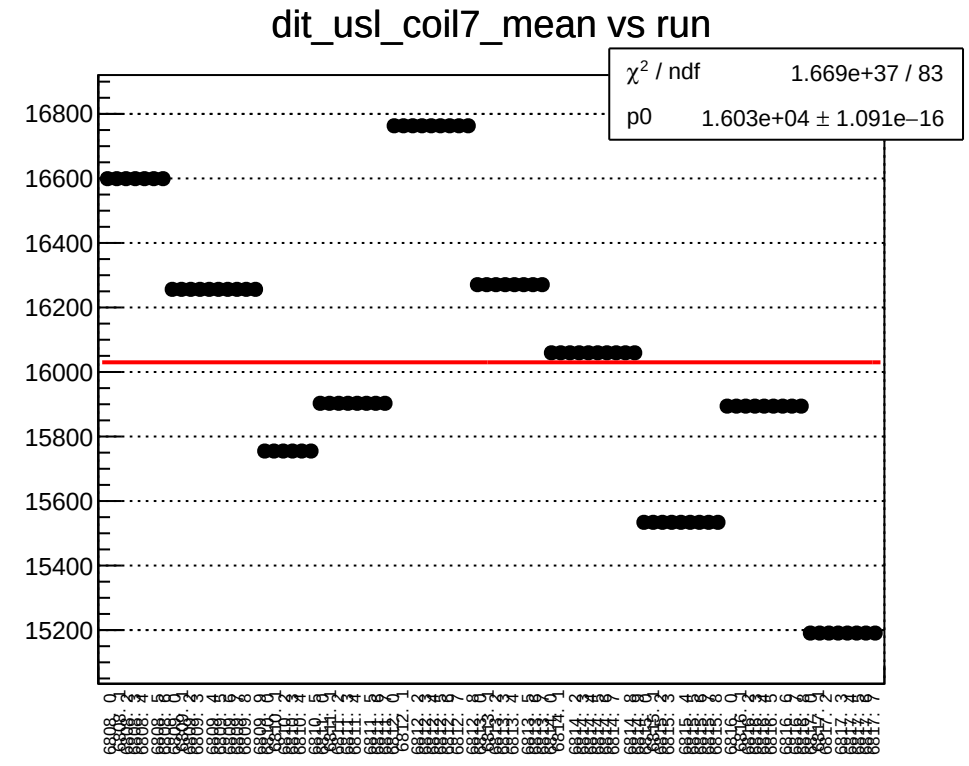

dit_4eY_coil7_mean vs run
χ² / ndf 8.841e+31 / 83
p0 −11.83 ± 1.091e−16
−10
−10.5
−11
−11.5
−12
−12.5
−13
−13.5
−14
−14.5
pull
Entries 84
Mean −4.538e+09
Std Dev 4.538e+09
×10¹²
1500
1000
500
0
−500
−1000
−1500
−2000
−2500

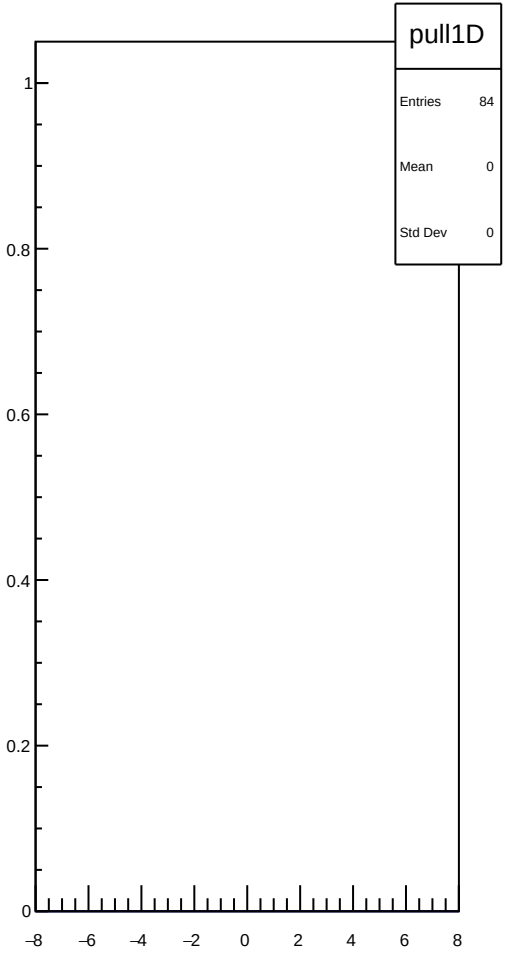

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

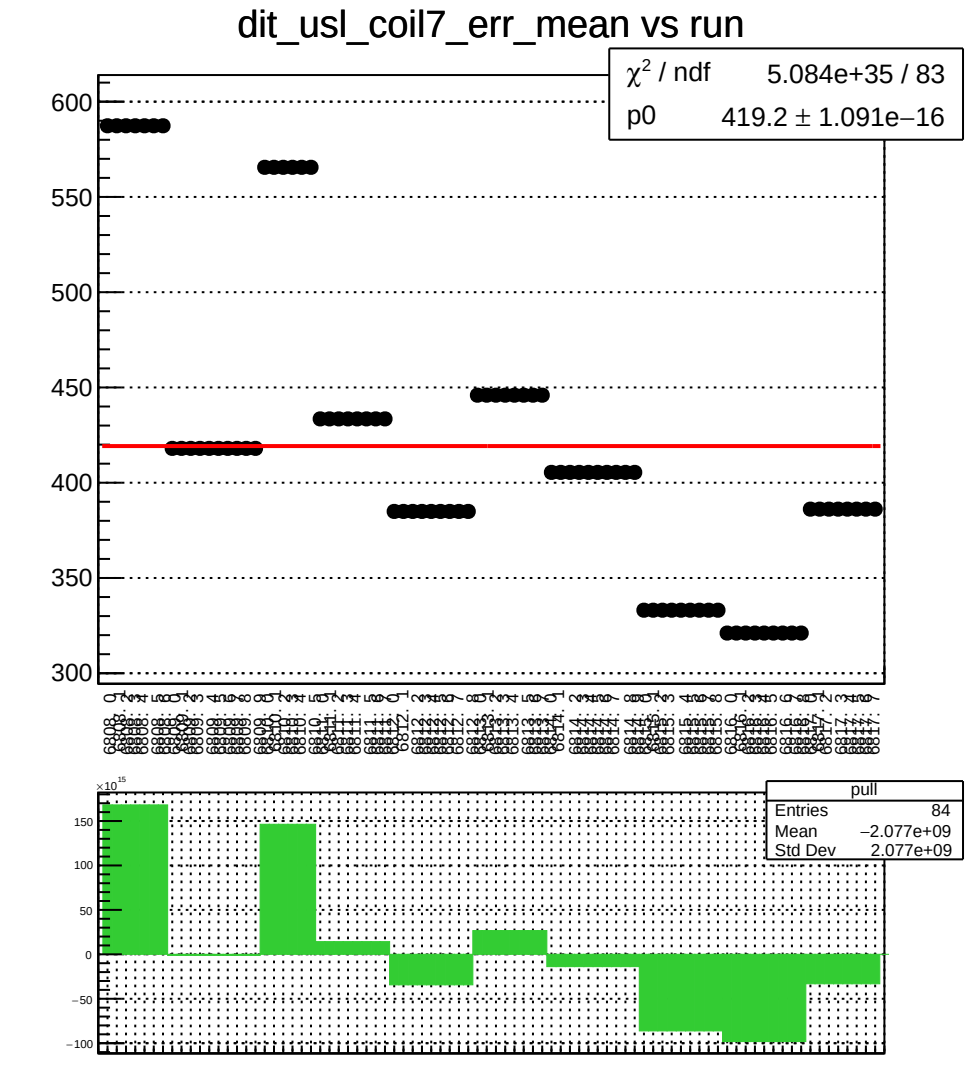

dit_4eY_coil7_err_mean vs run
χ² / ndf 1.082e+31 / 83
p0 1.308 ± 1.091e−16
2.2
2
1.8
1.6
1.4
1.2
1
pull
Entries 84
Mean 3.372e+09
Std Dev 3.372e+09
×10¹²
800
600
400
200
0
−200

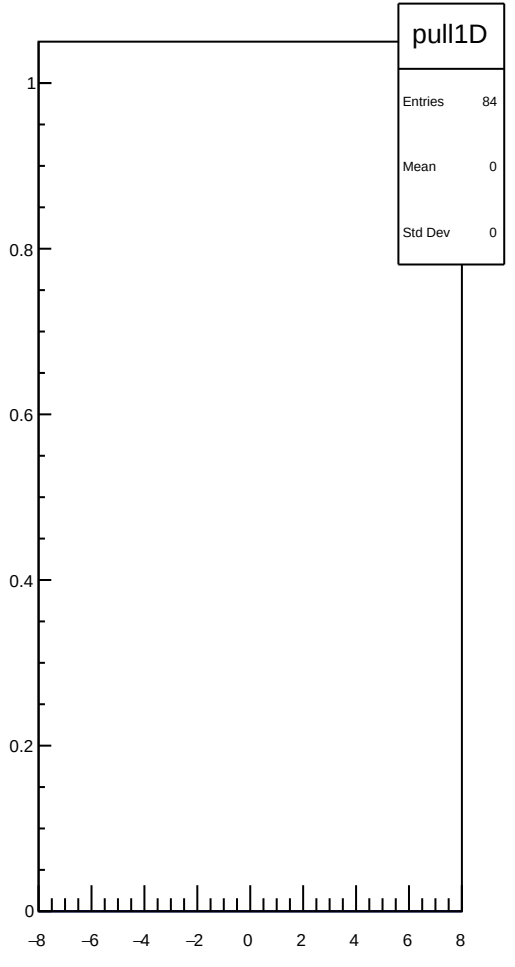

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

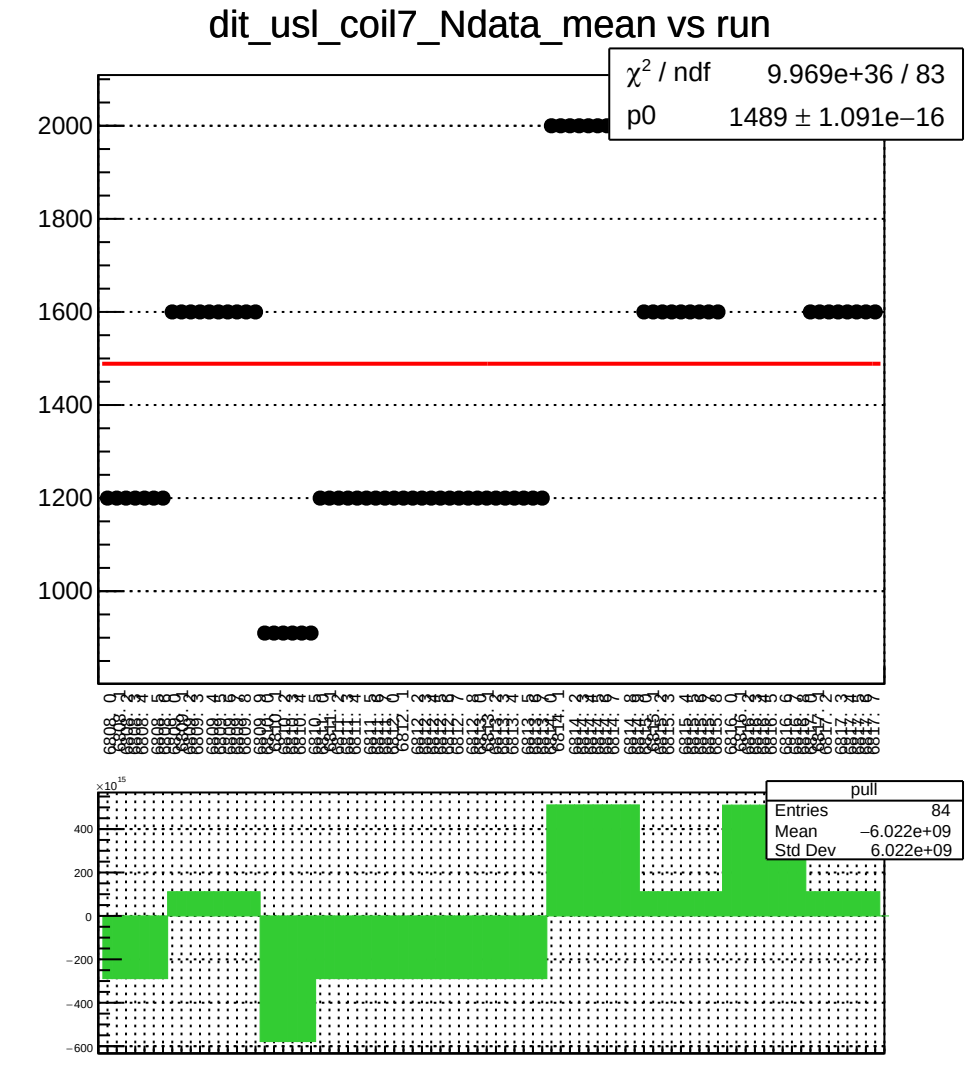

dit_4eY_coil7_Ndata_mean vs run
χ² / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09
×10¹⁵
400
200
0
−200
−400
−600
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

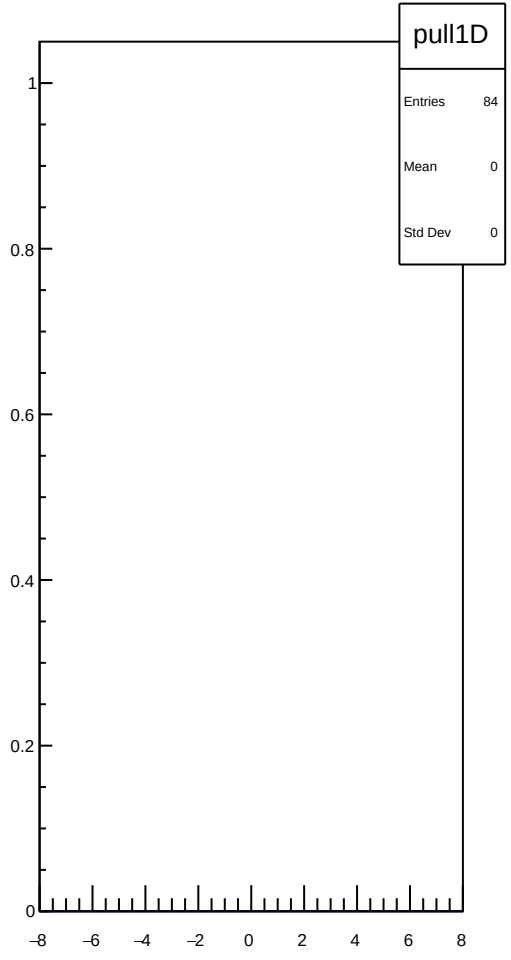

dit_usl_coil7_mean vs run
χ² / ndf 1.669e+37 / 83
p0 1.603e+04 ± 1.091e−16
16800
16600
16400
16200
16000
15800
15600
15400
15200
×10¹⁵
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 84
Mean 4.15e+09
Std Dev 4.15e+09

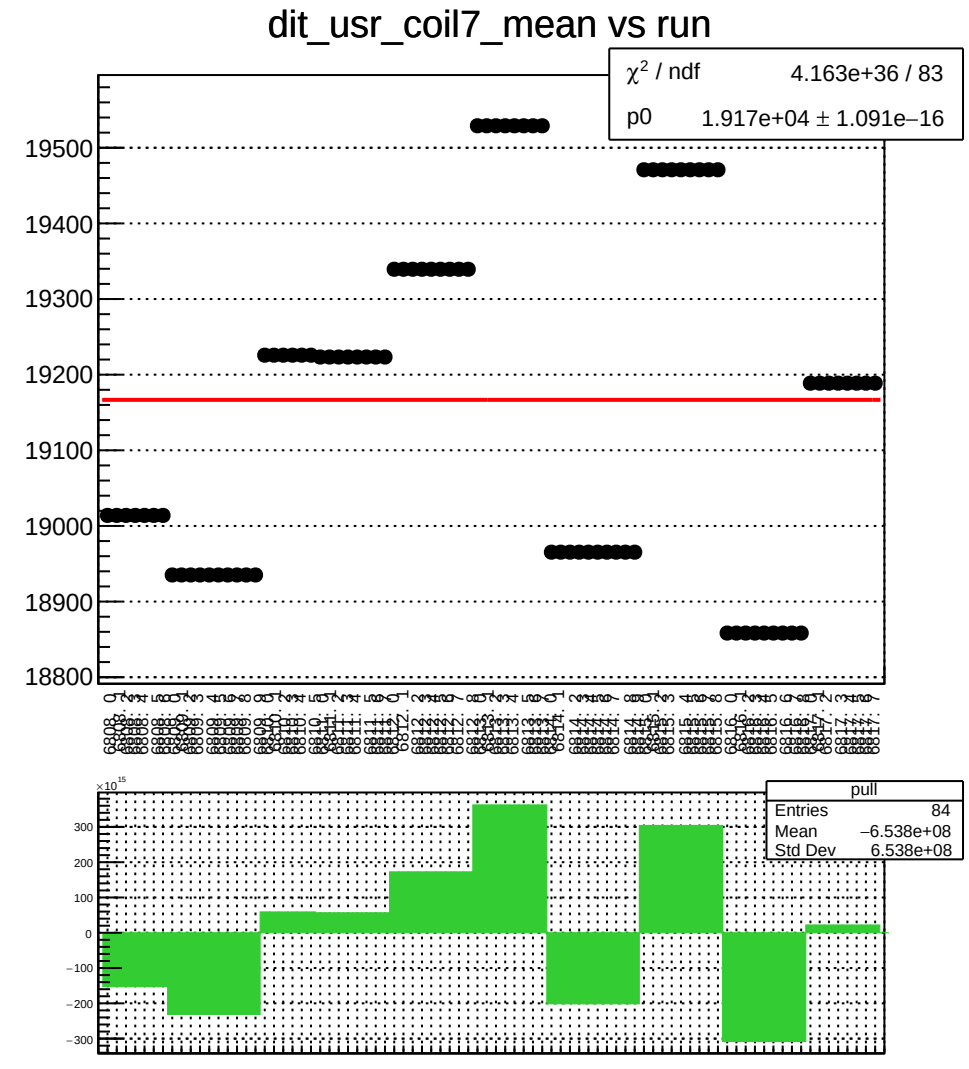

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

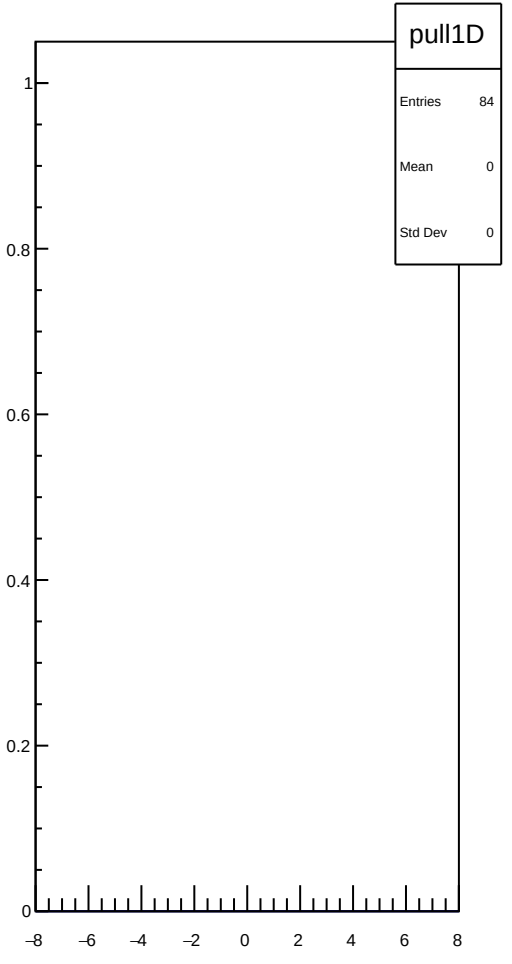

dit_usl_coil7_err_mean vs run
χ² / ndf 5.084e+35 / 83
p0 419.2 ± 1.091e−16
600
550
500
450
400
350
300
×10¹⁵
150
100
50
0
−50
−100
pull
Entries 84
Mean −2.077e+09
Std Dev 2.077e+09

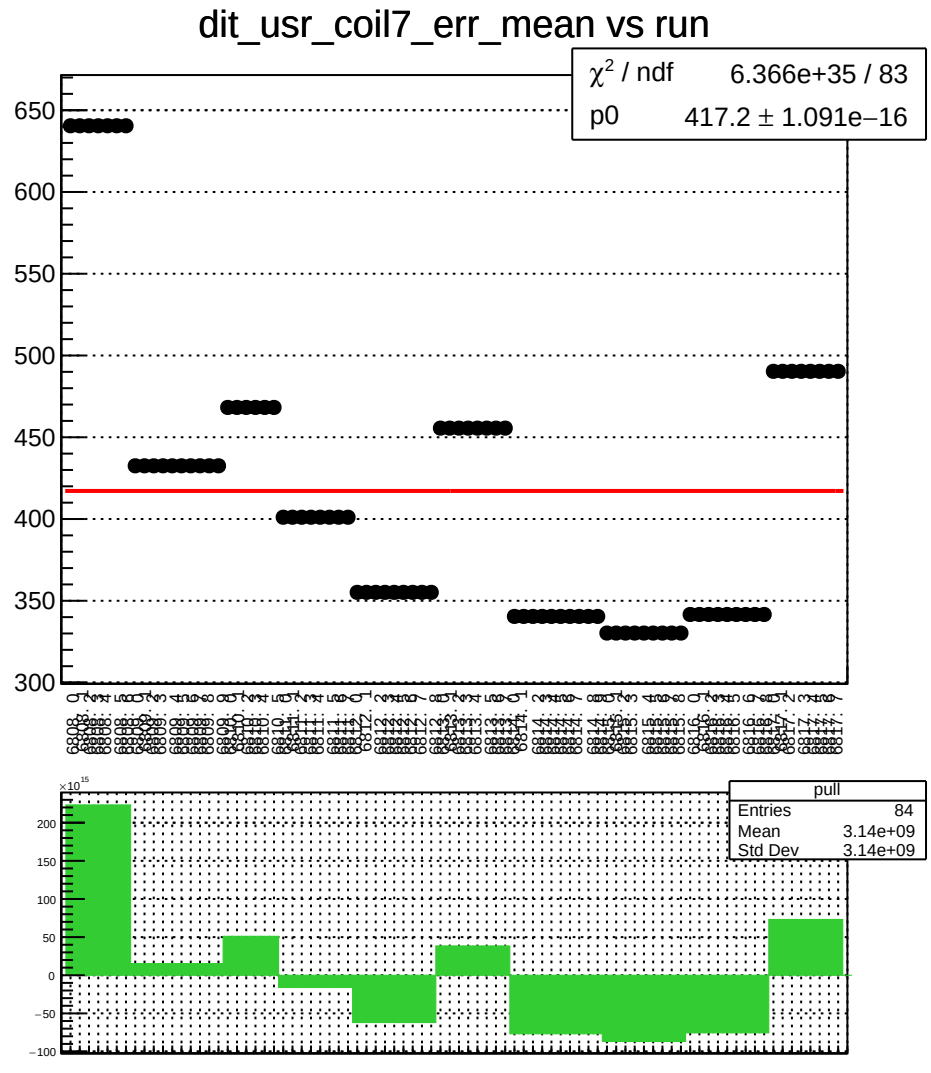

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

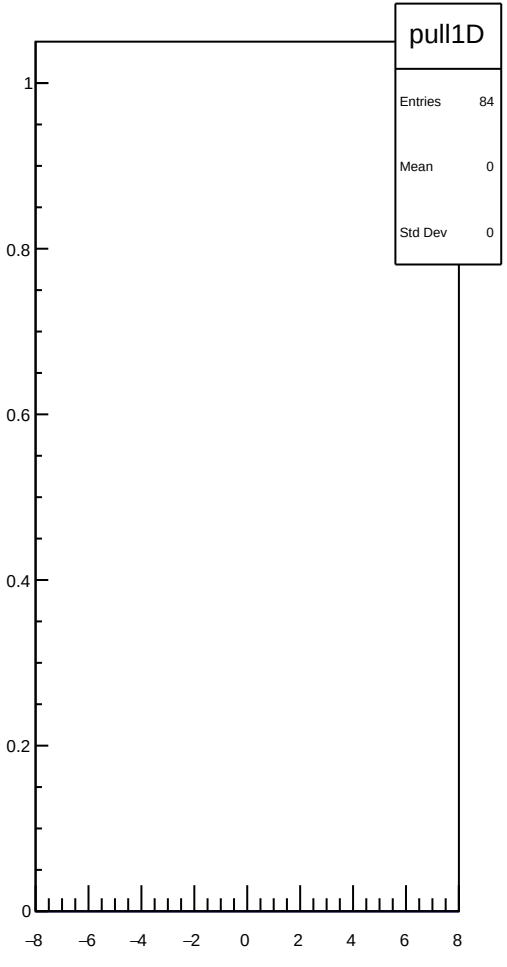

dit_usl_coil7_Ndata_mean vs run
χ² / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09
×10¹⁵
400
200
0
−200
−400
−600

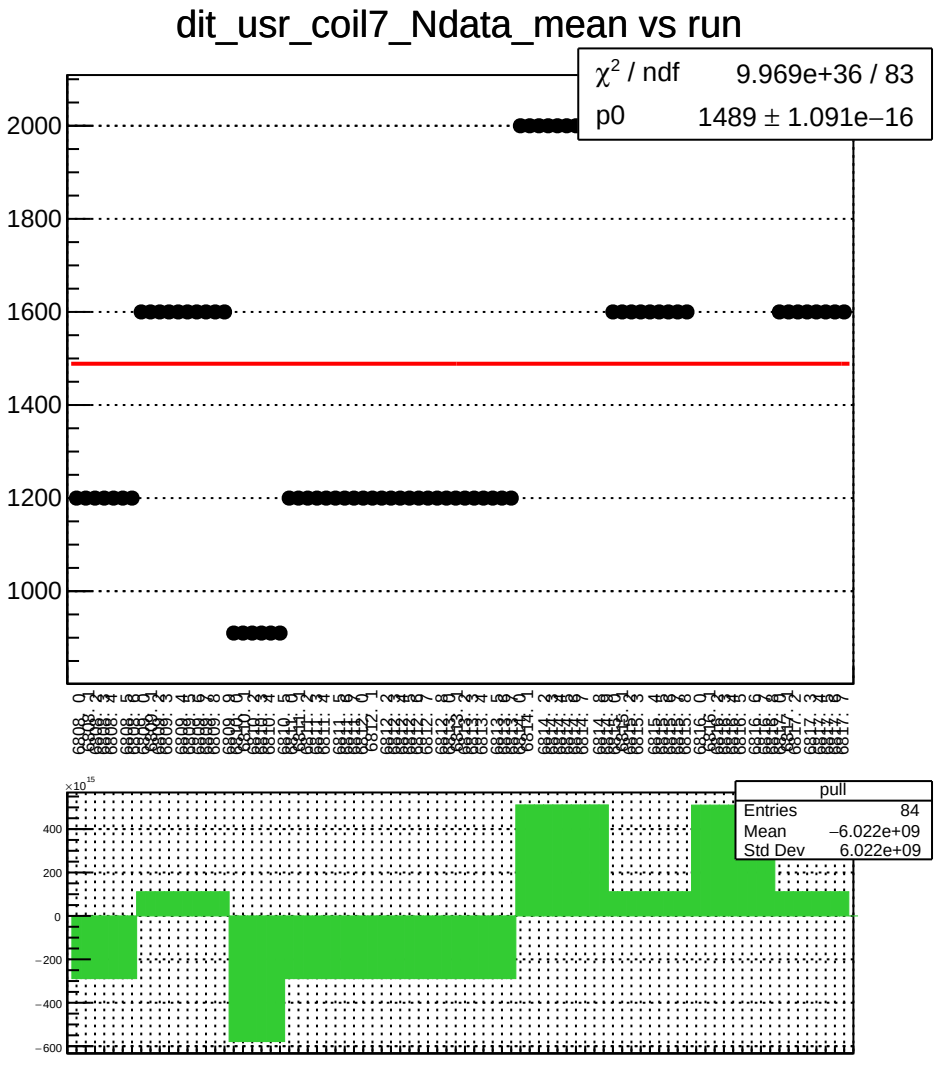

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

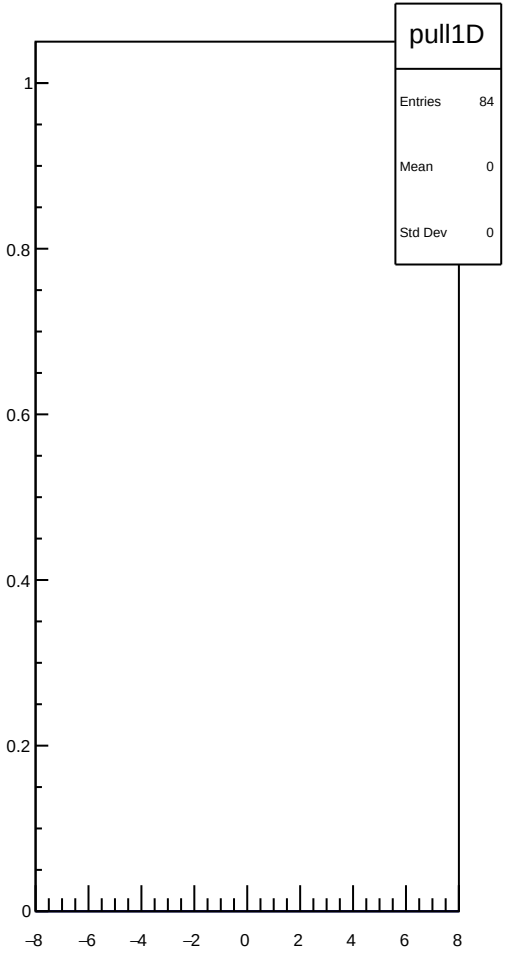

dit_usr_coil7_mean vs run
χ² / ndf 4.163e+36 / 83
p0 1.917e+04 ± 1.091e−16
19500
19400
19300
19200
19100
19000
18900
18800
pull
Entries 84
Mean −6.538e+08
Std Dev 6.538e+08
×10¹⁵
300
200
100
0
−100
−200
−300

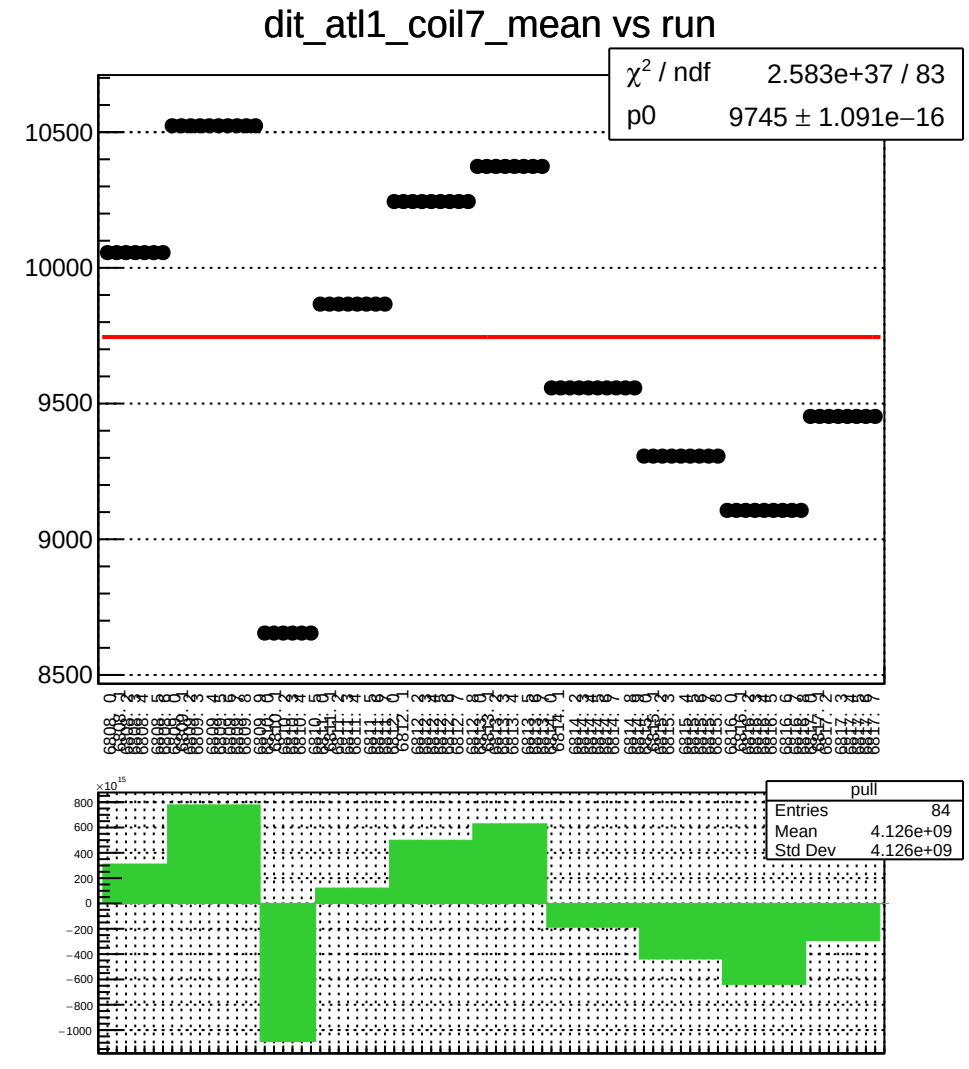

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

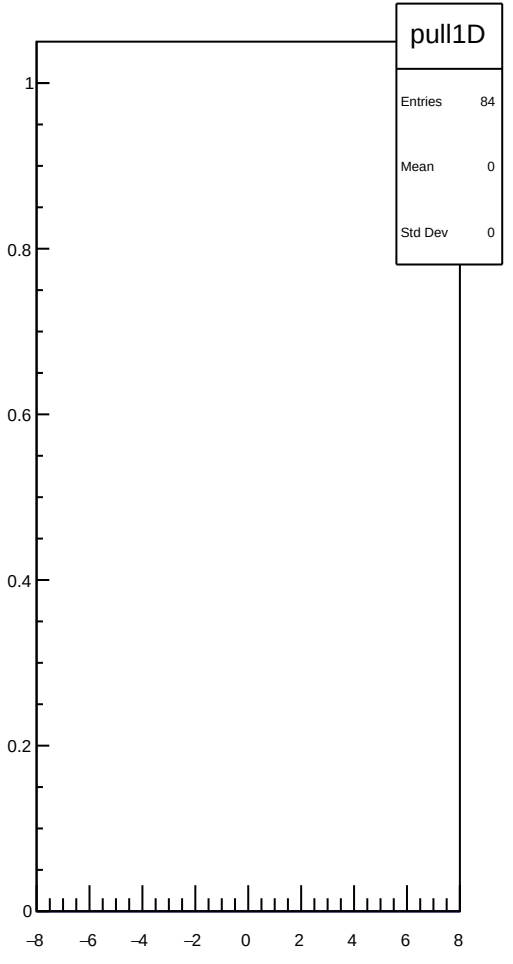

dit_usr_coil7_err_mean vs run
χ² / ndf 6.366e+35 / 83
p0 417.2 ± 1.091e−16
650
600
550
500
450
400
350
300
pull
Entries 84
Mean 3.14e+09
Std Dev 3.14e+09
×10¹⁵
200
150
100
50
0
−50
−100

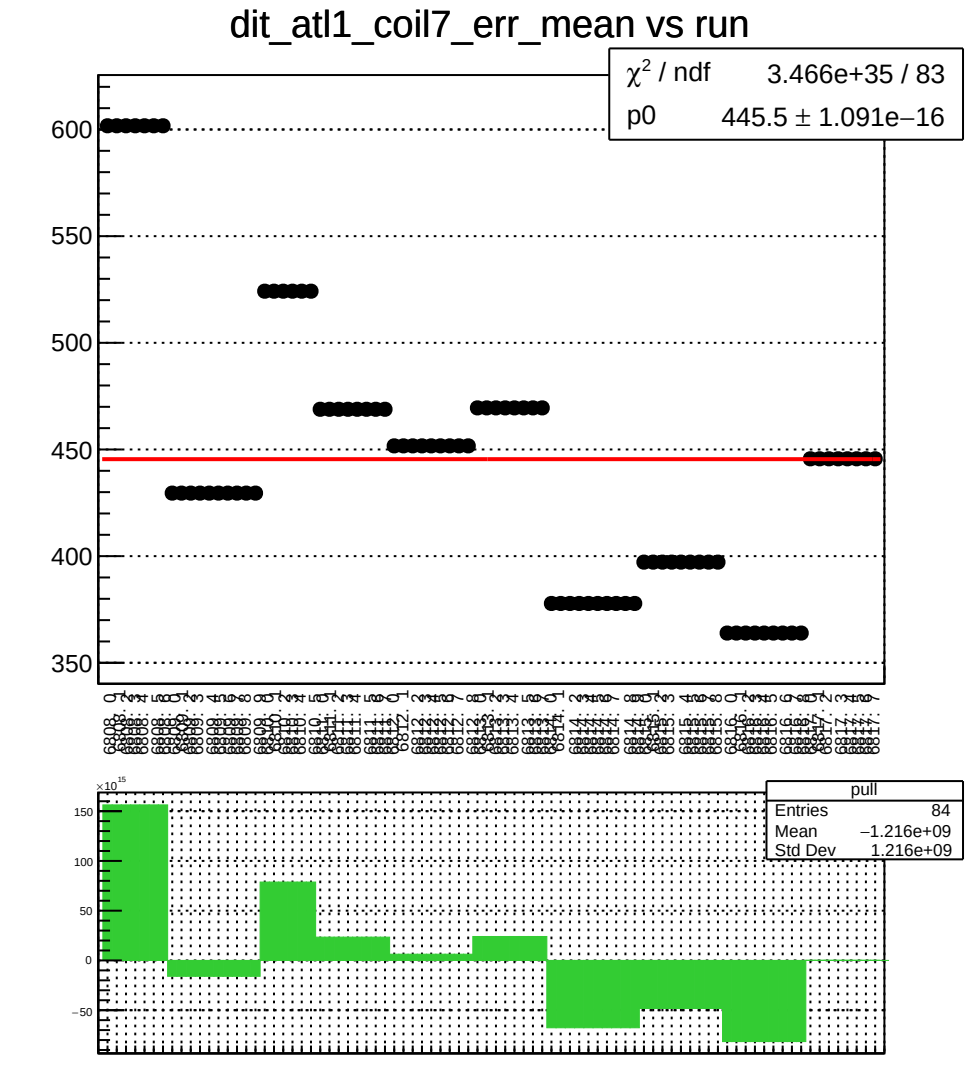

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

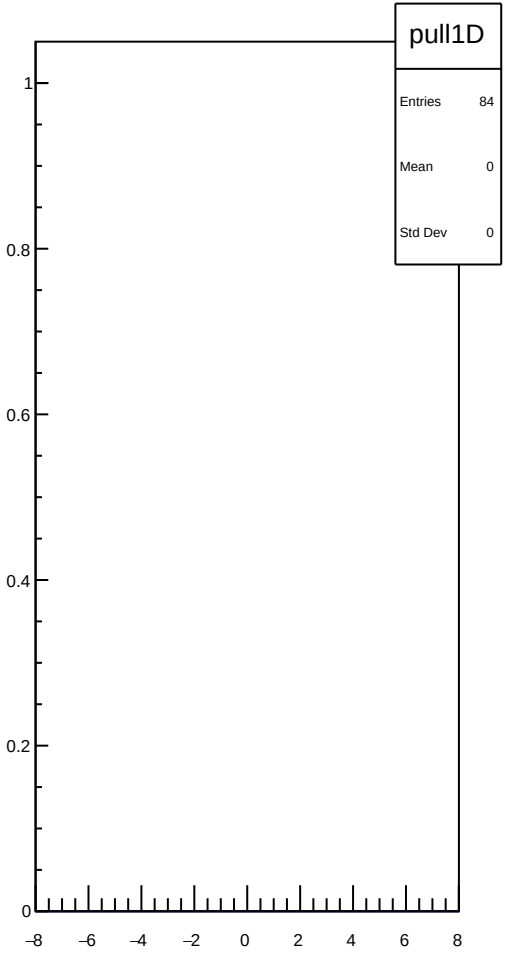

dit_usr_coil7_Ndata_mean vs run
χ² / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09
×10¹⁵
400
200
0
−200
−400
−600

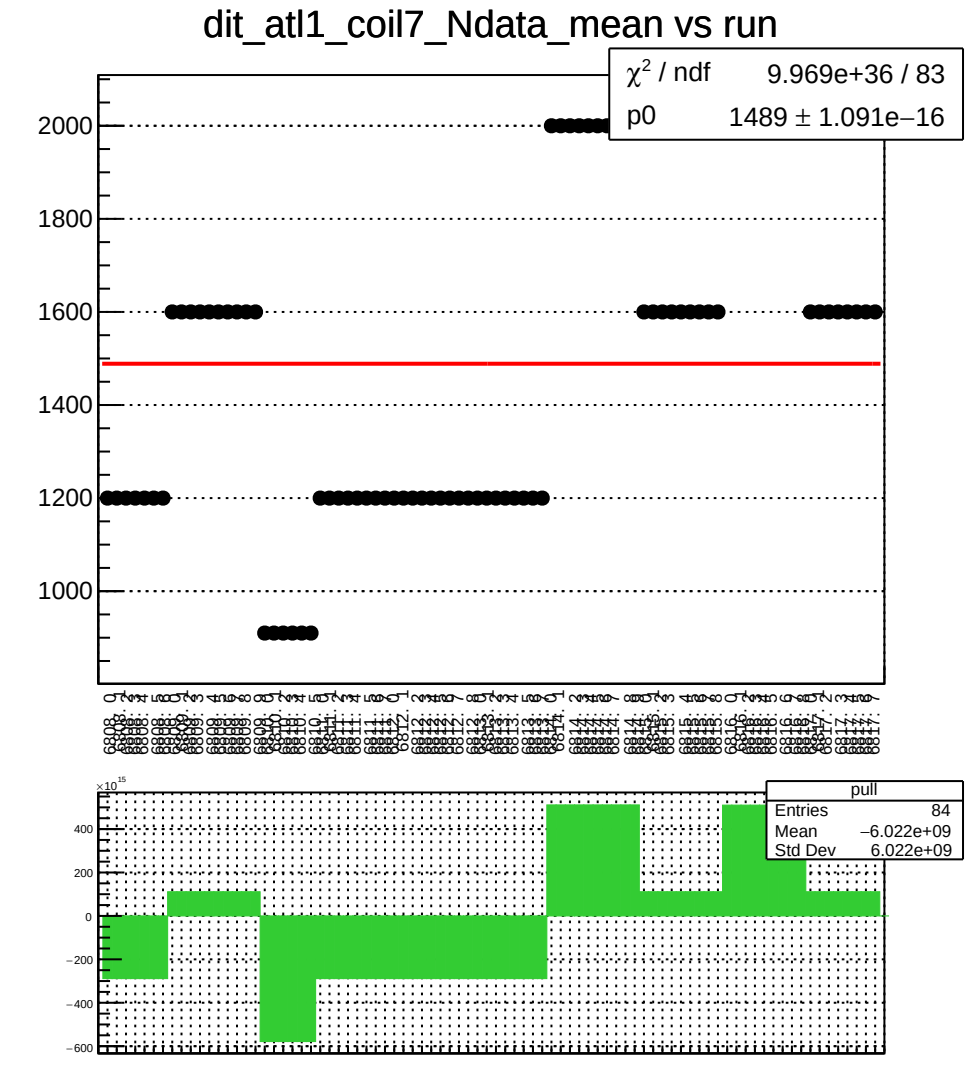

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

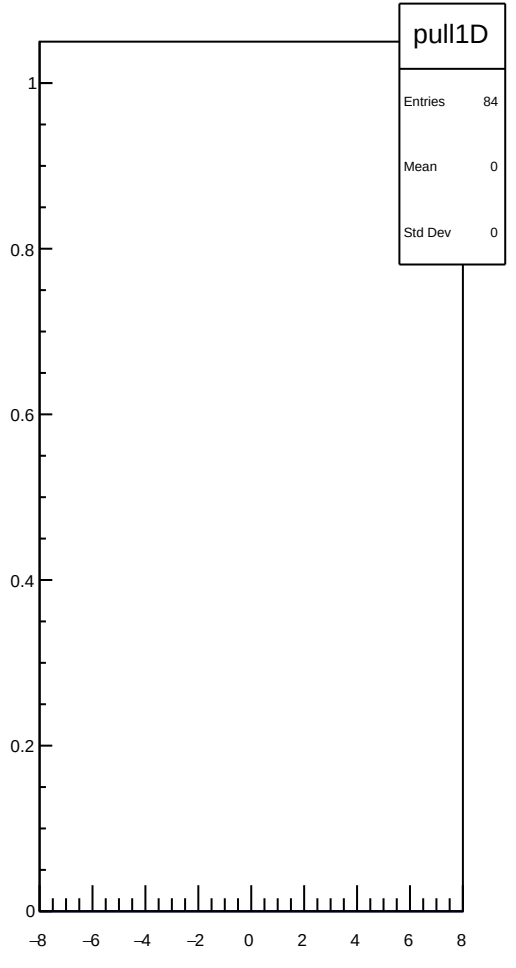

dit_atl1_coil7_mean vs run
χ² / ndf 2.583e+37 / 83
p0 9745 ± 1.091e−16
10500
10000
9500
9000
8500
pull
Entries 84
Mean 4.126e+09
Std Dev 4.126e+09
×10¹⁵
800
600
400
200
0
−200
−400
−600
−800
−1000

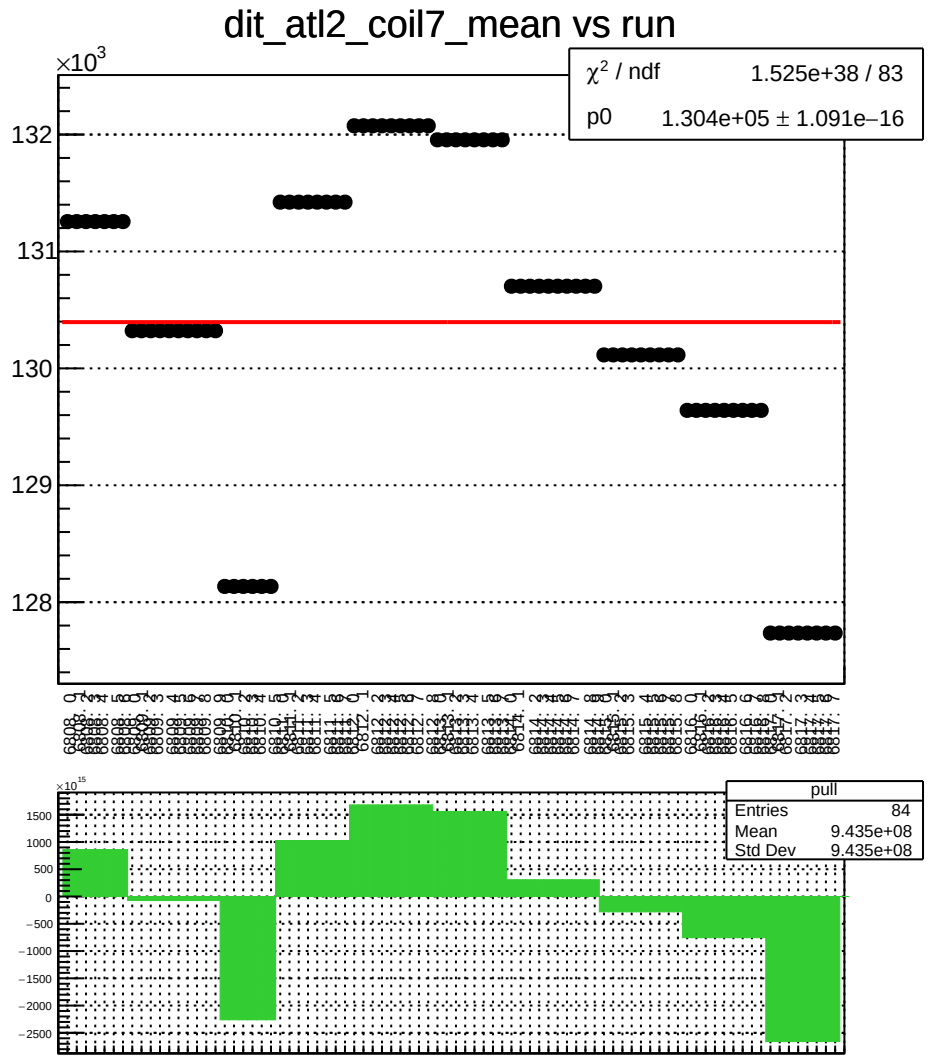

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

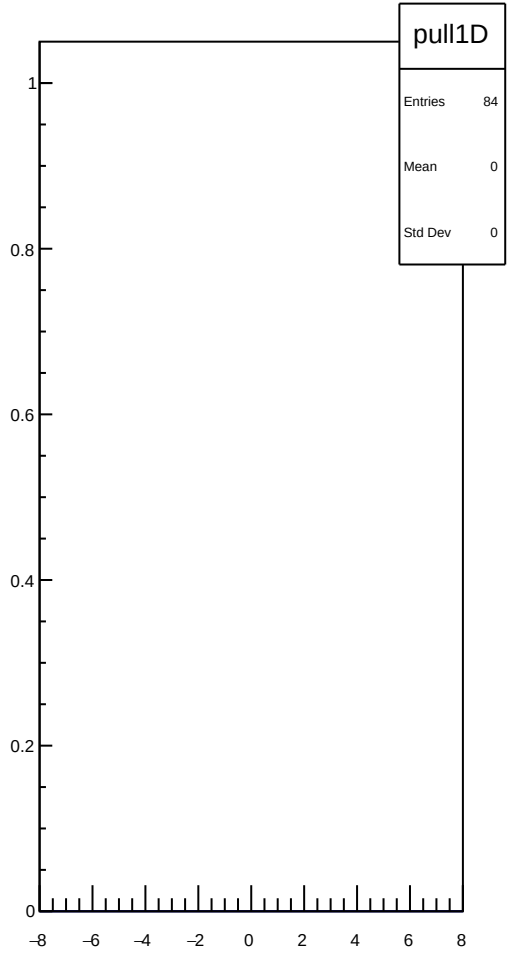

dit_atl1_coil7_err_mean vs run
χ² / ndf 3.466e+35 / 83
p0 445.5 ± 1.091e−16
600
550
500
450
400
350
pull
Entries 84
Mean −1.216e+09
Std Dev 1.216e+09
×10¹⁵
150
100
50
0
−50

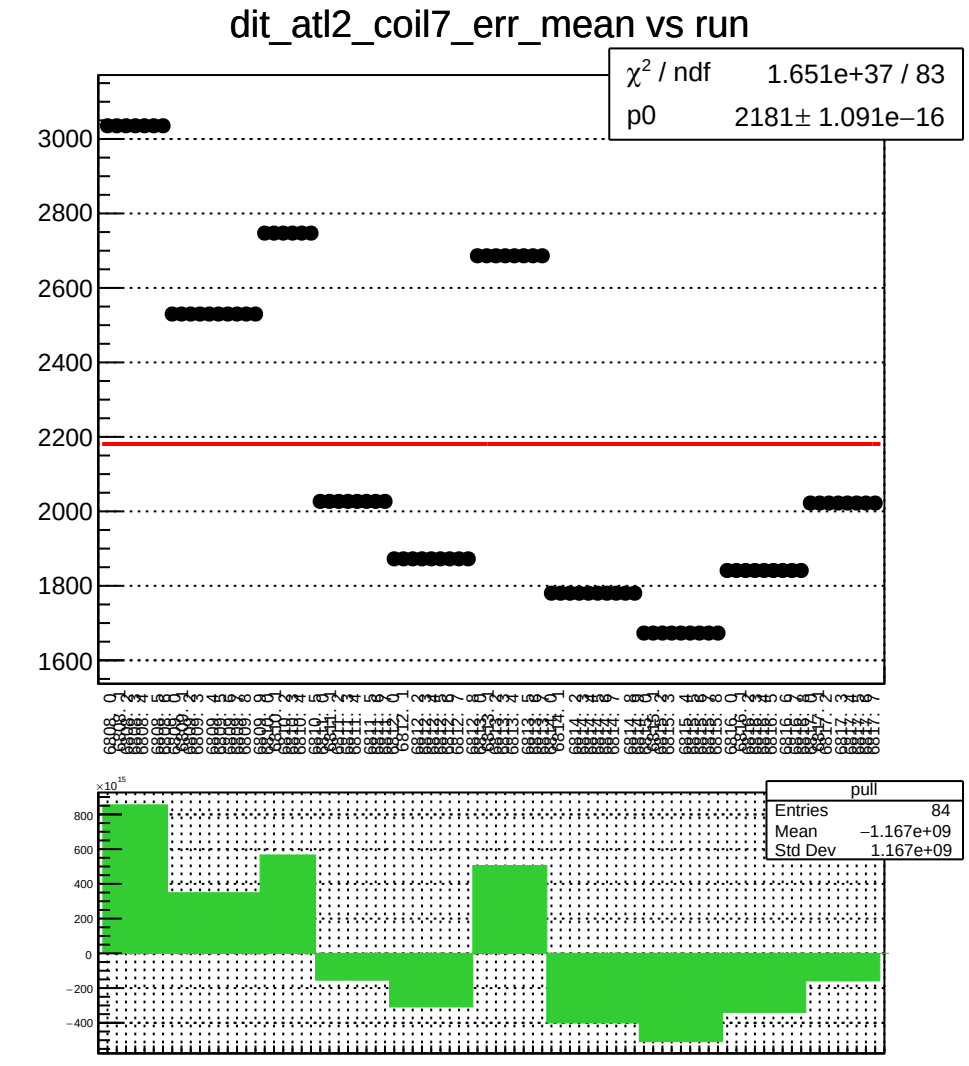

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

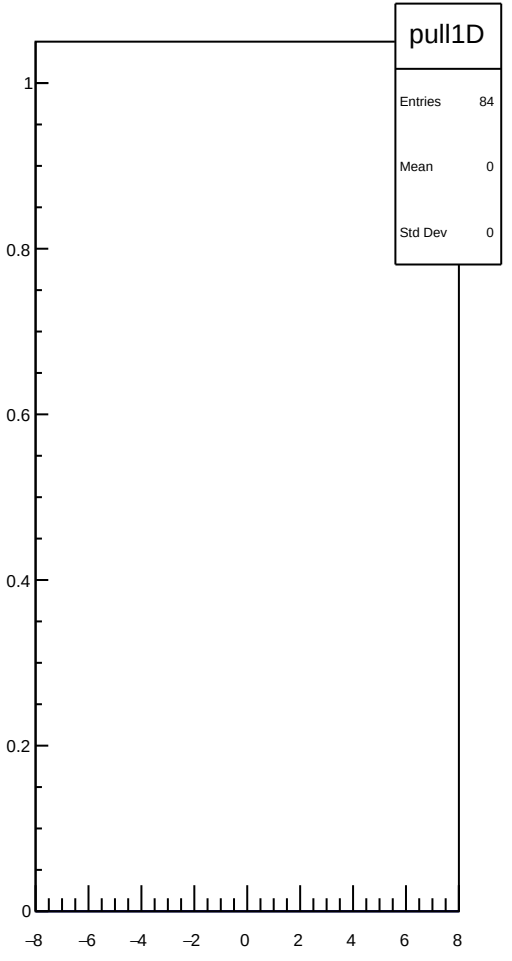

dit_atl1_coil7_Ndata_mean vs run
χ² / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09
×10¹⁵
400
200
0
−200
−400
−600

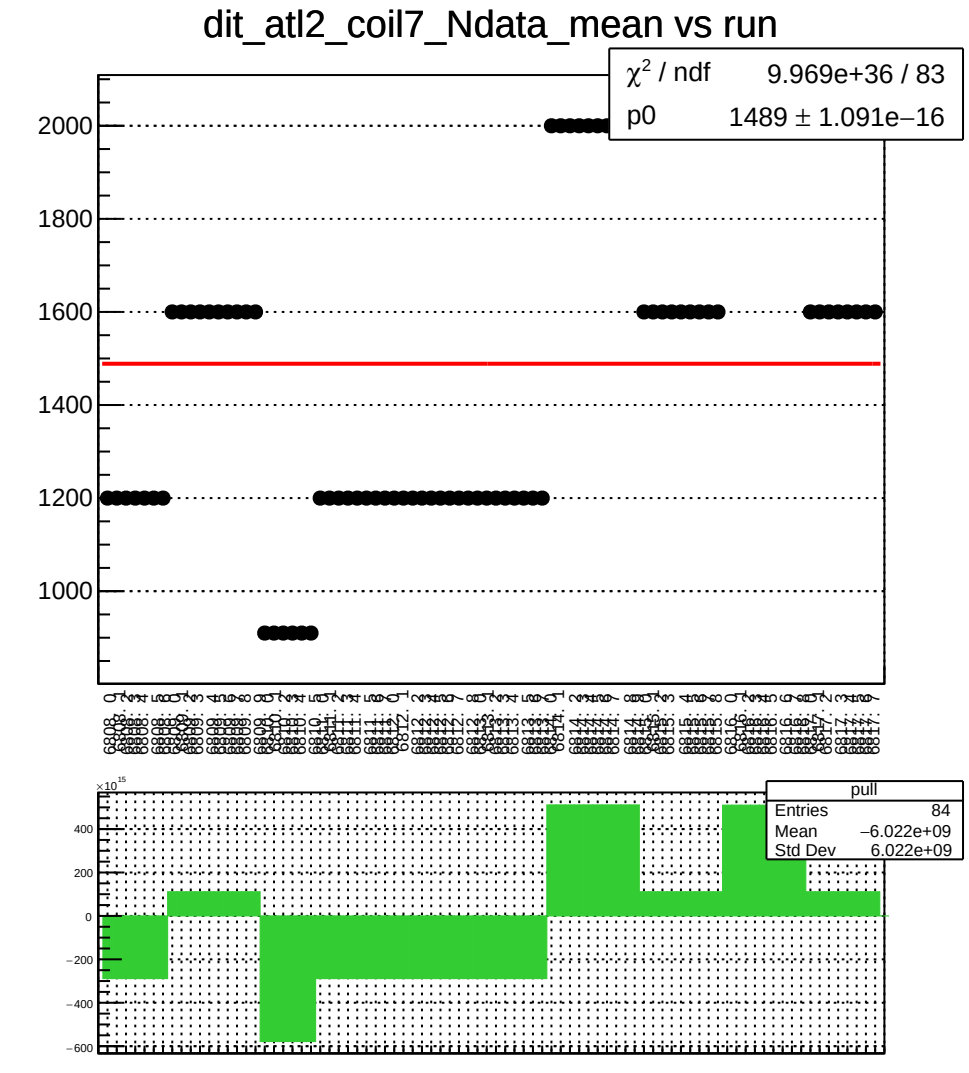

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

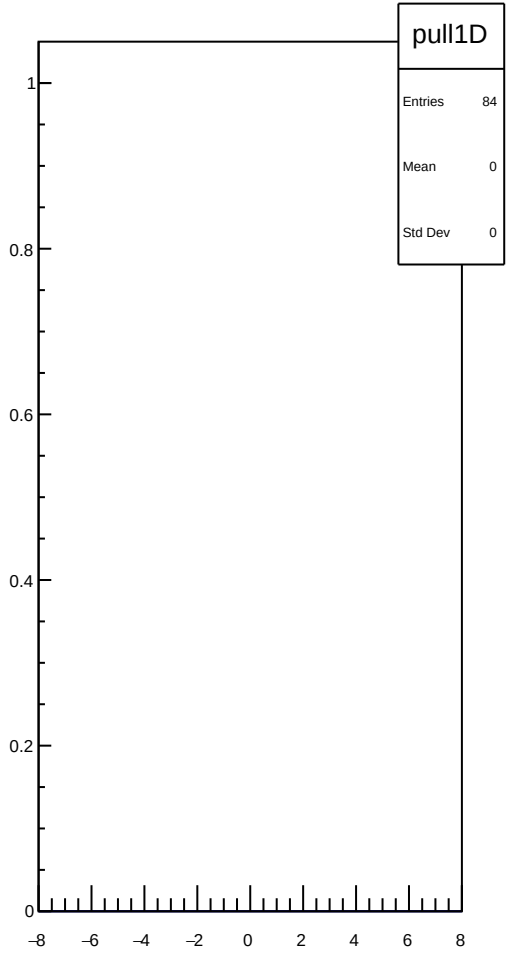

dit_atl2_coil7_mean vs run
×10^3
χ² / ndf 1.525e+38 / 83
p0 1.304e+05 ± 1.091e−16
132
131
130
129
128
×10^15
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
pull
Entries 84
Mean 9.435e+08
Std Dev 9.435e+08

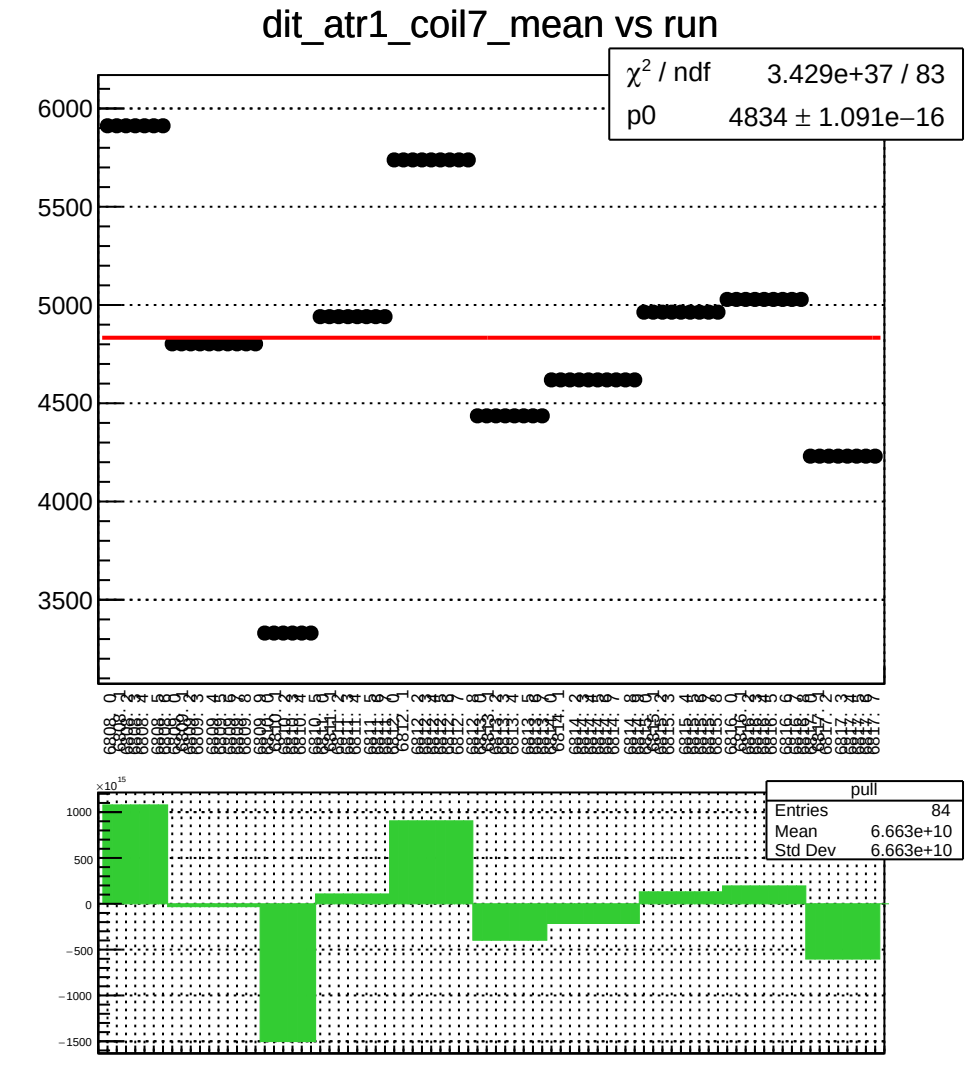

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

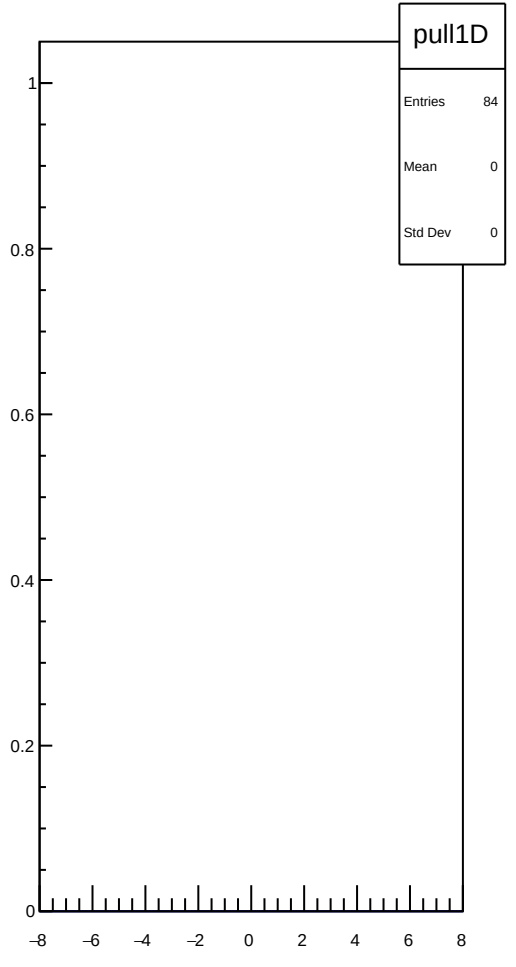

dit_atl2_coil7_err_mean vs run
χ² / ndf 1.651e+37 / 83
p0 2181± 1.091e−16
3000
2800
2600
2400
2200
2000
1800
1600
×10¹⁵
800
600
400
200
0
−200
−400
pull
Entries 84
Mean −1.167e+09
Std Dev 1.167e+09

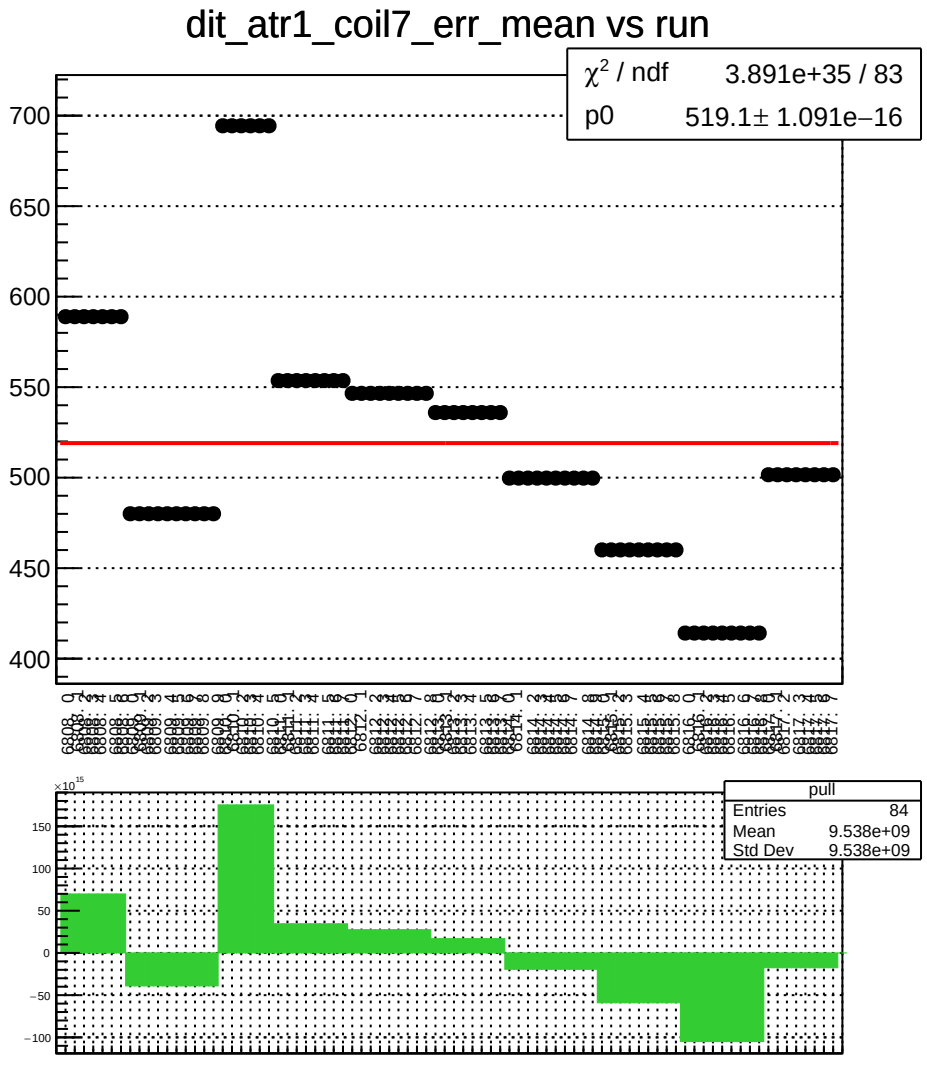

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

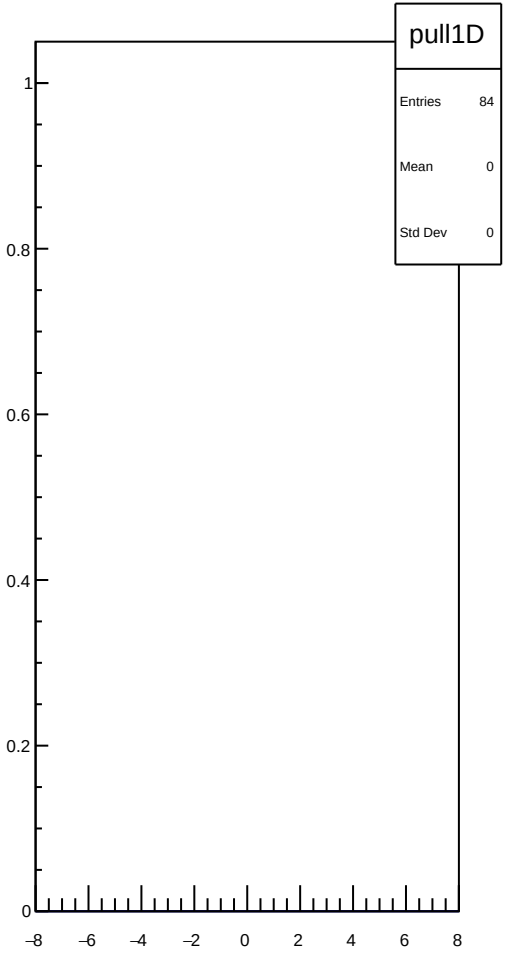

dit_atl2_coil7_Ndata_mean vs run
χ² / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09
×10¹⁵
400
200
0
−200
−400
−600

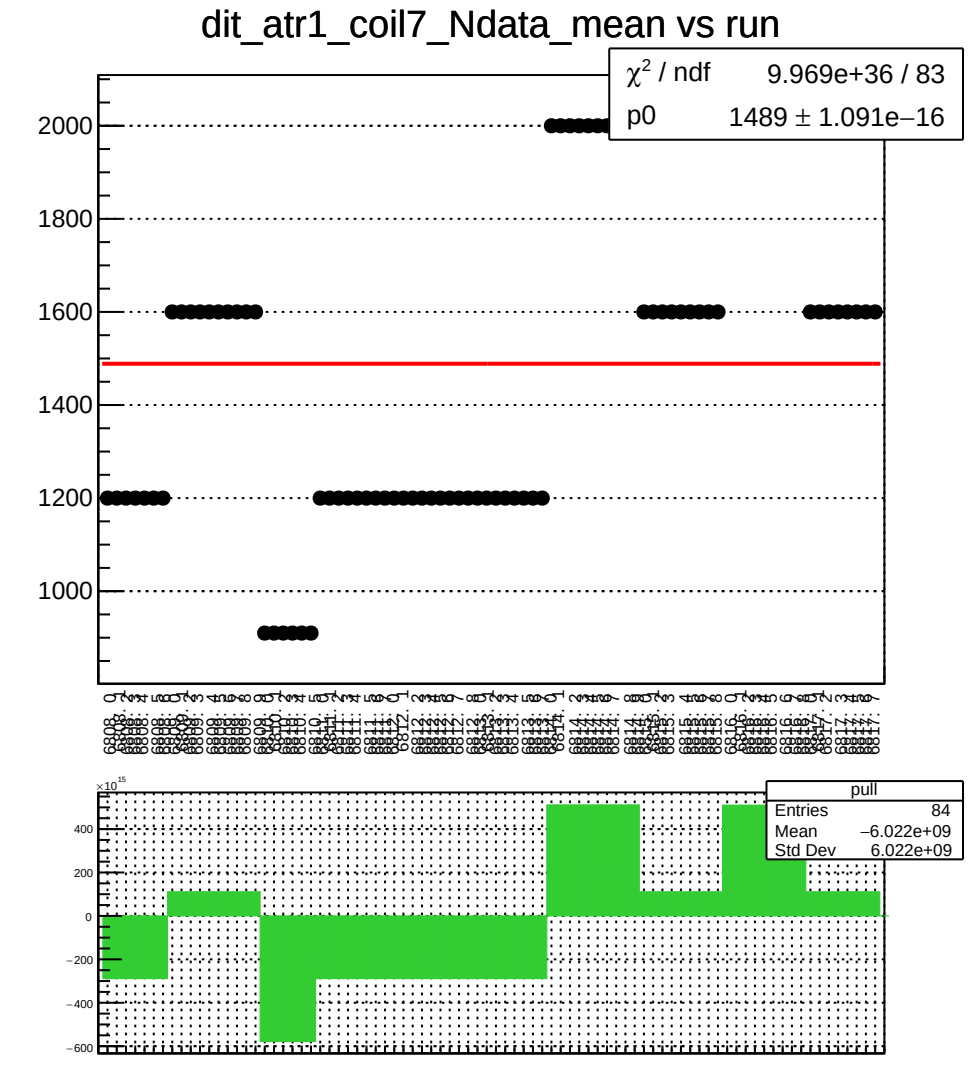

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

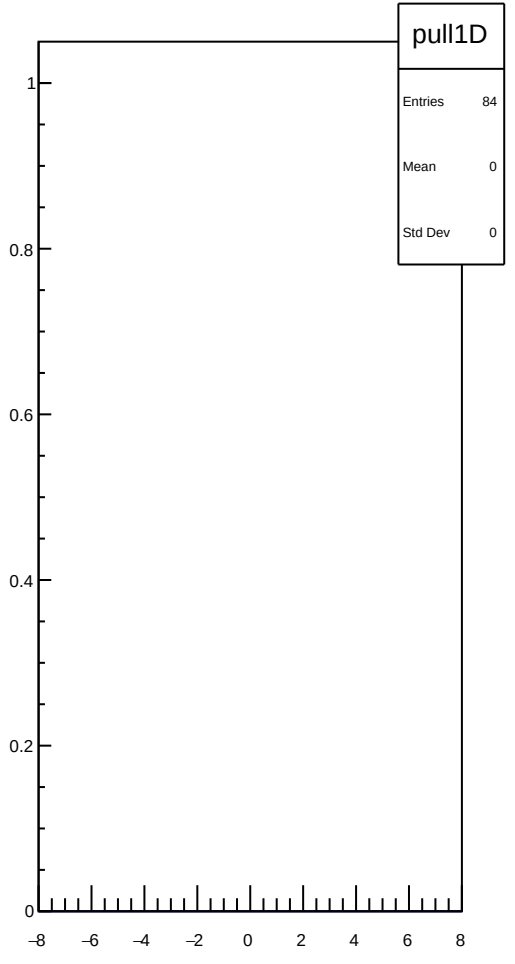

dit_atr1_coil7_mean vs run
χ² / ndf 3.429e+37 / 83
p0 4834 ± 1.091e−16
6000
5500
5000
4500
4000
3500
pull
Entries 84
Mean 6.663e+10
Std Dev 6.663e+10
×10¹⁵
1000
500
0
−500
−1000
−1500

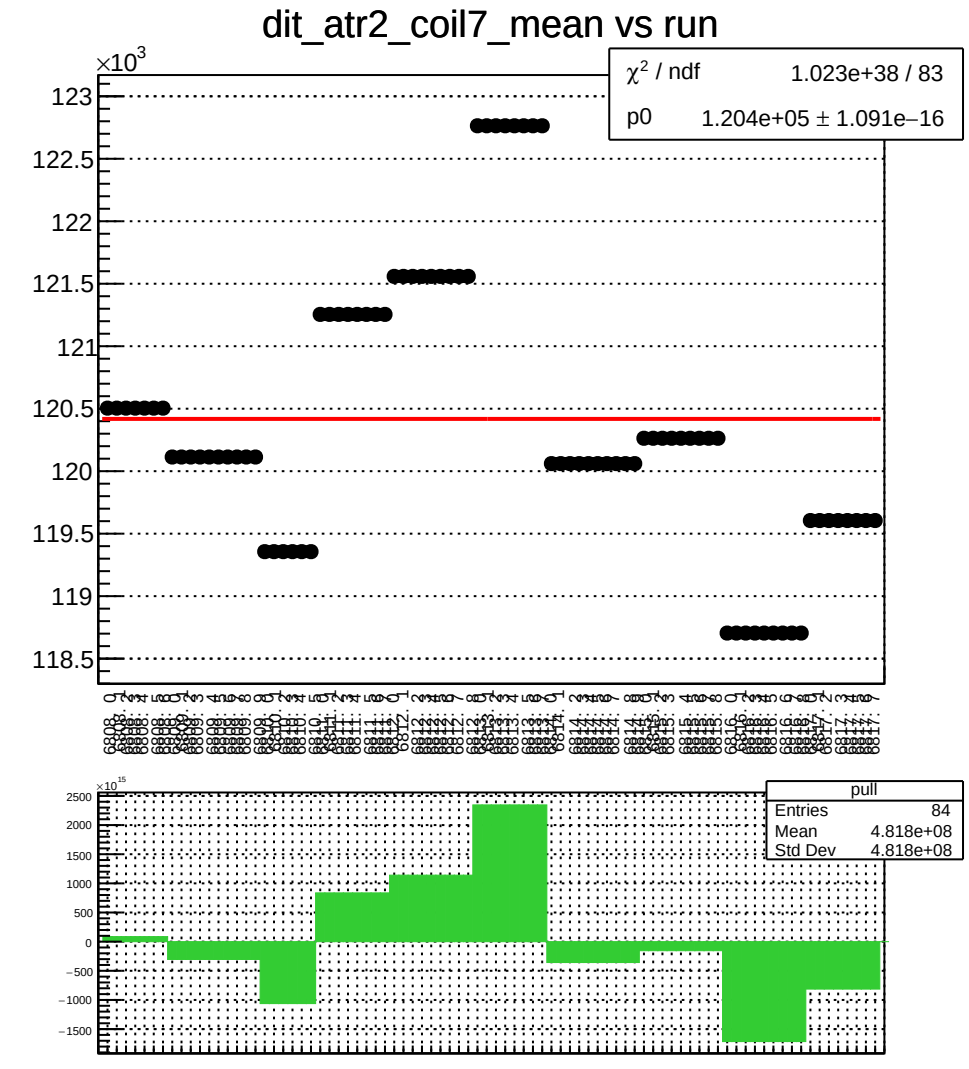

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

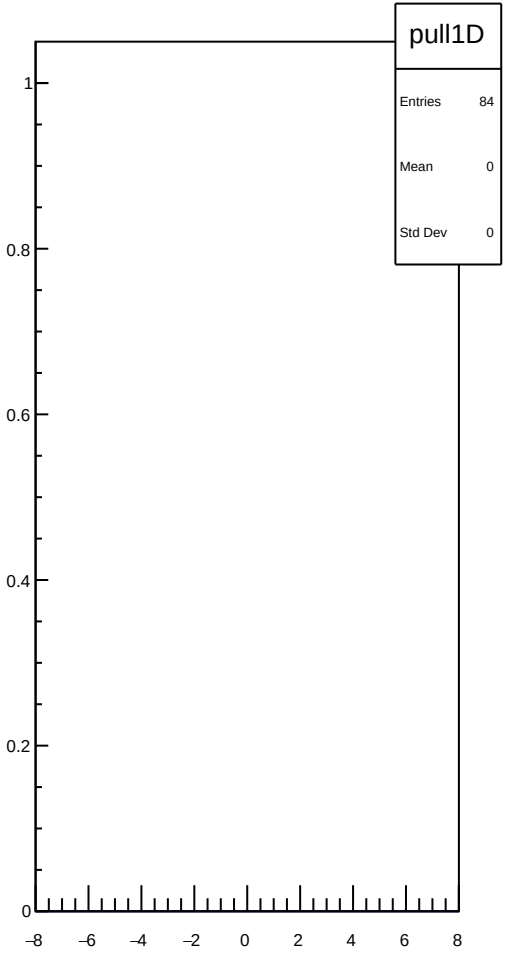

dit_atr1_coil7_err_mean vs run
χ² / ndf 3.891e+35 / 83
p0 519.1± 1.091e−16
700
650
600
550
500
450
400
pull
Entries 84
Mean 9.538e+09
Std Dev 9.538e+09
×10¹⁵
150
100
50
0
−50
−100

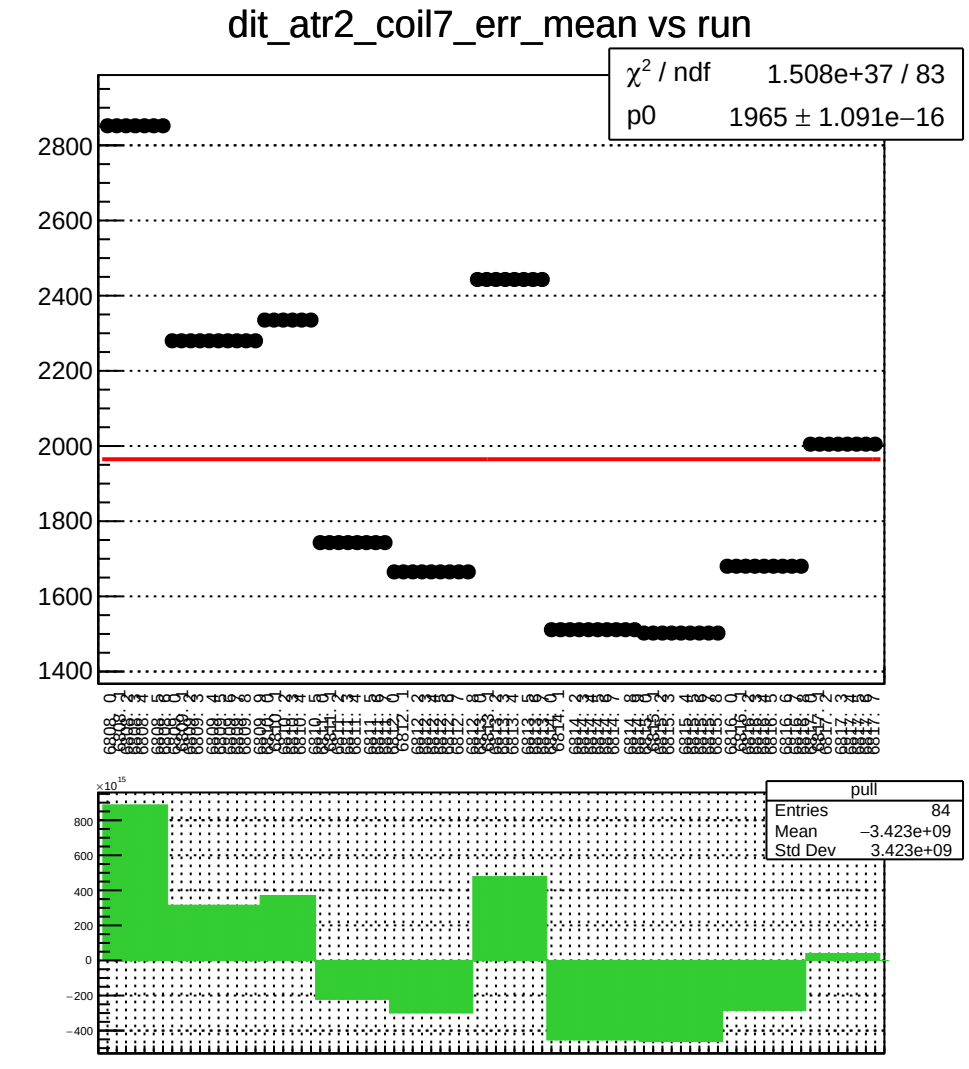

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

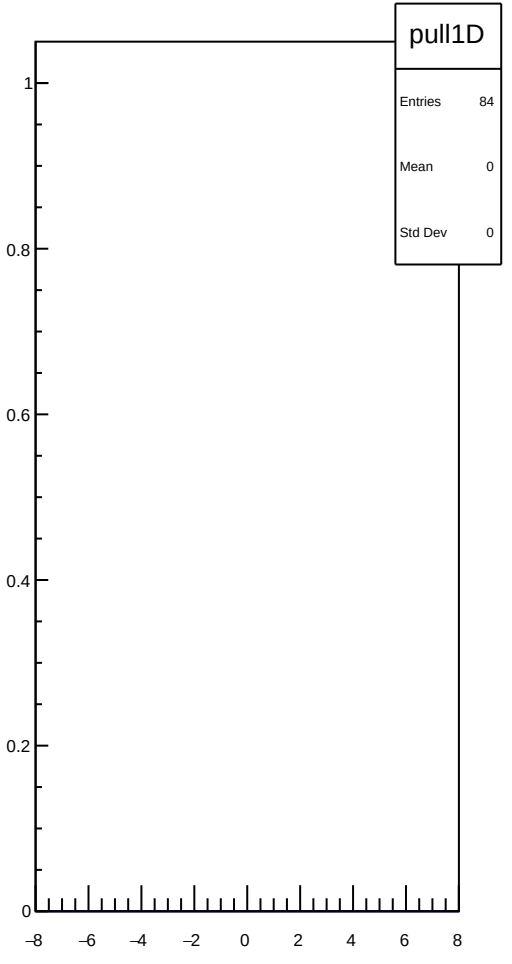

dit_atr1_coil7_Ndata_mean vs run
χ² / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09
×10¹⁵
400
200
0
−200
−400
−600

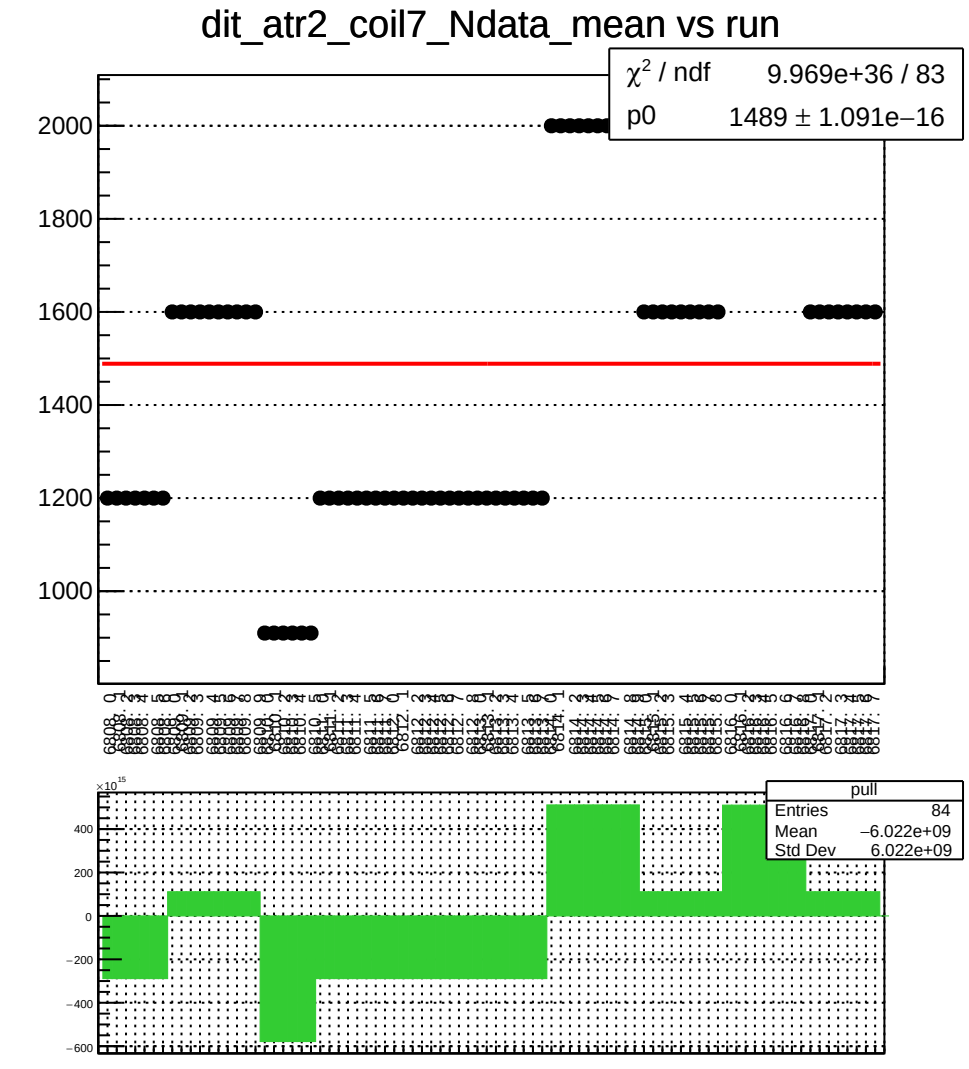

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

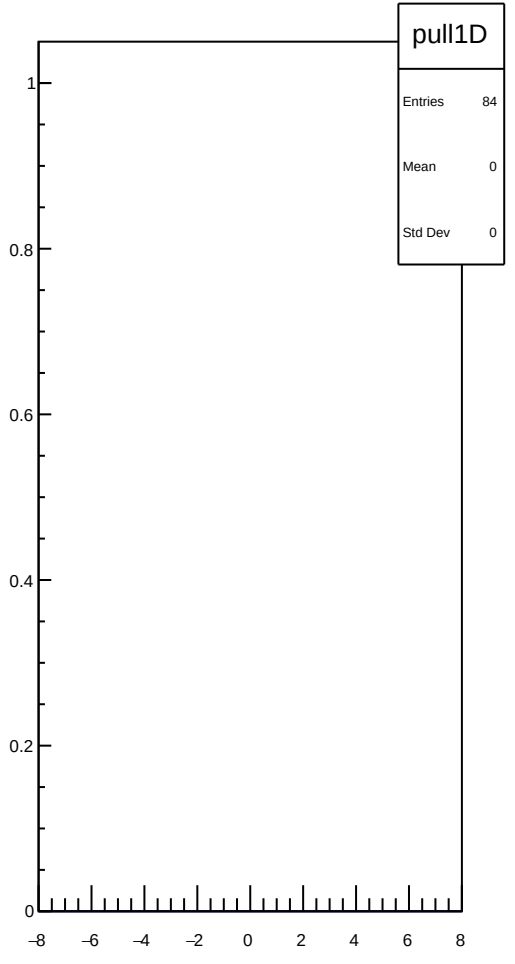

dit_atr2_coil7_mean vs run
×10^3
χ² / ndf 1.023e+38 / 83
p0 1.204e+05 ± 1.091e−16
123
122.5
122
121.5
121
120.5
120
119.5
119
118.5
×10^15
2500
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 84
Mean 4.818e+08
Std Dev 4.818e+08

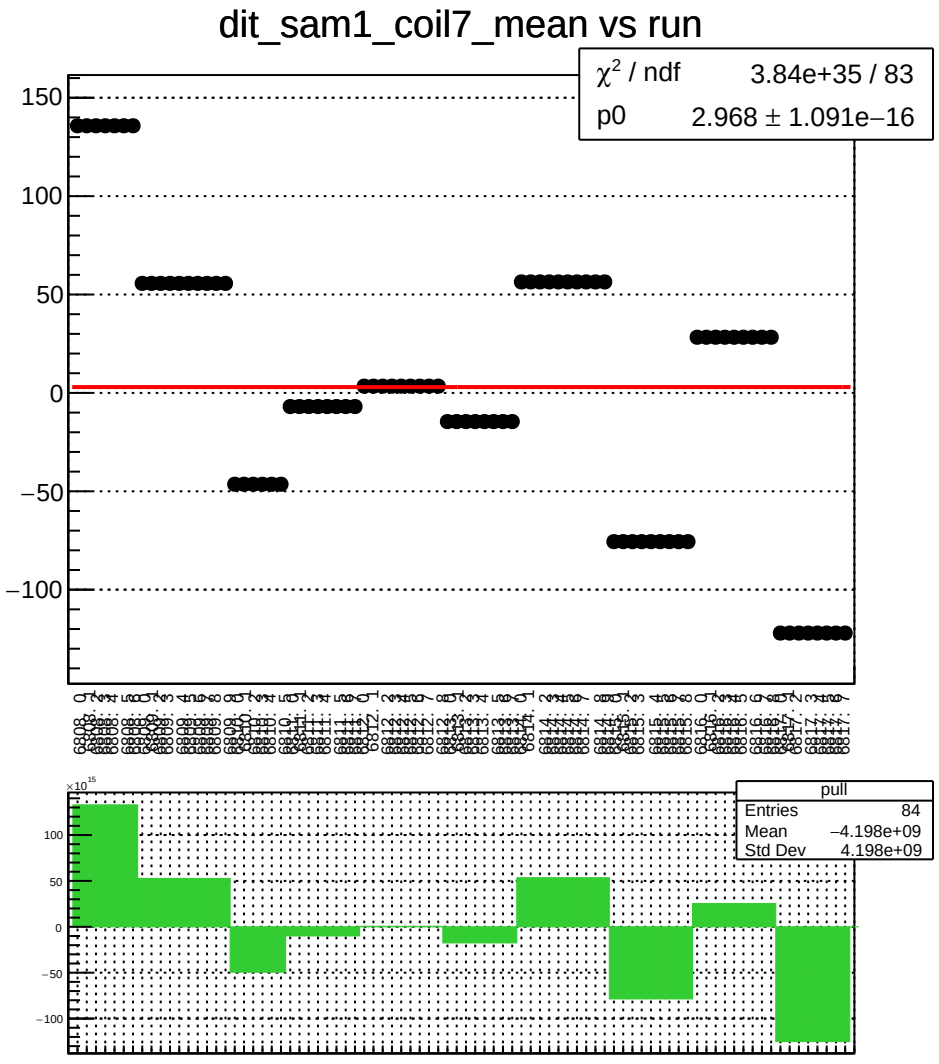

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

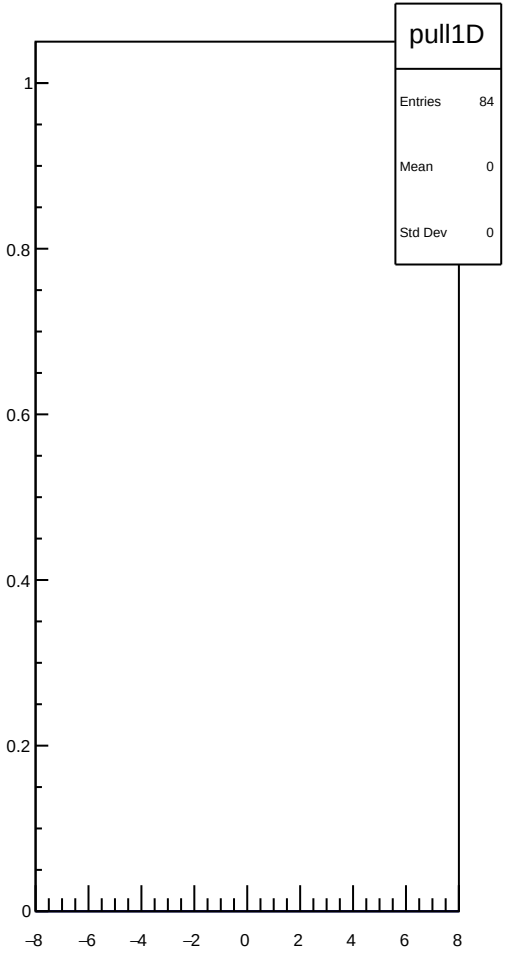

dit_atr2_coil7_err_mean vs run
χ² / ndf 1.508e+37 / 83
p0 1965 ± 1.091e−16
2800
2600
2400
2200
2000
1800
1600
1400
×10¹⁵
800
600
400
200
0
−200
−400
pull
Entries 84
Mean −3.423e+09
Std Dev 3.423e+09

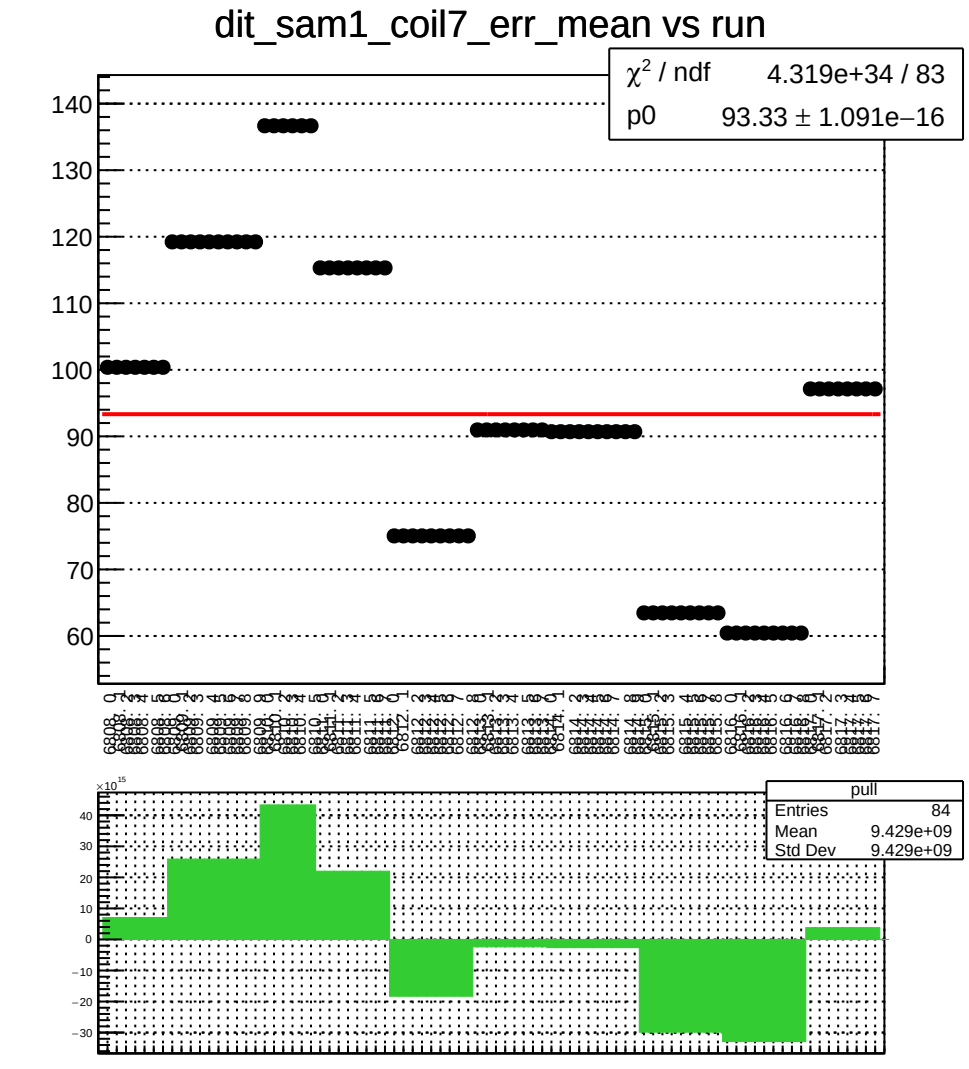

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

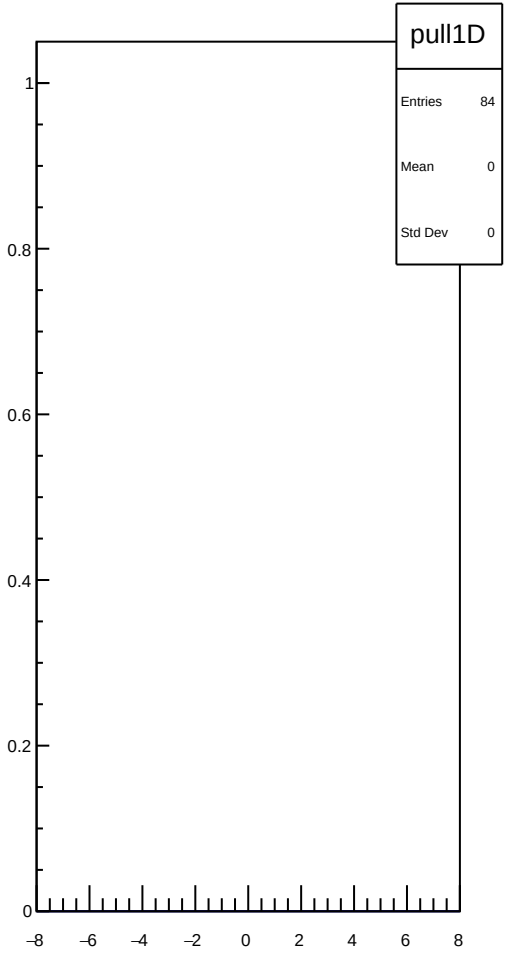

dit_atr2_coil7_Ndata_mean vs run
χ² / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09
×10¹⁵
400
200
0
−200
−400
−600

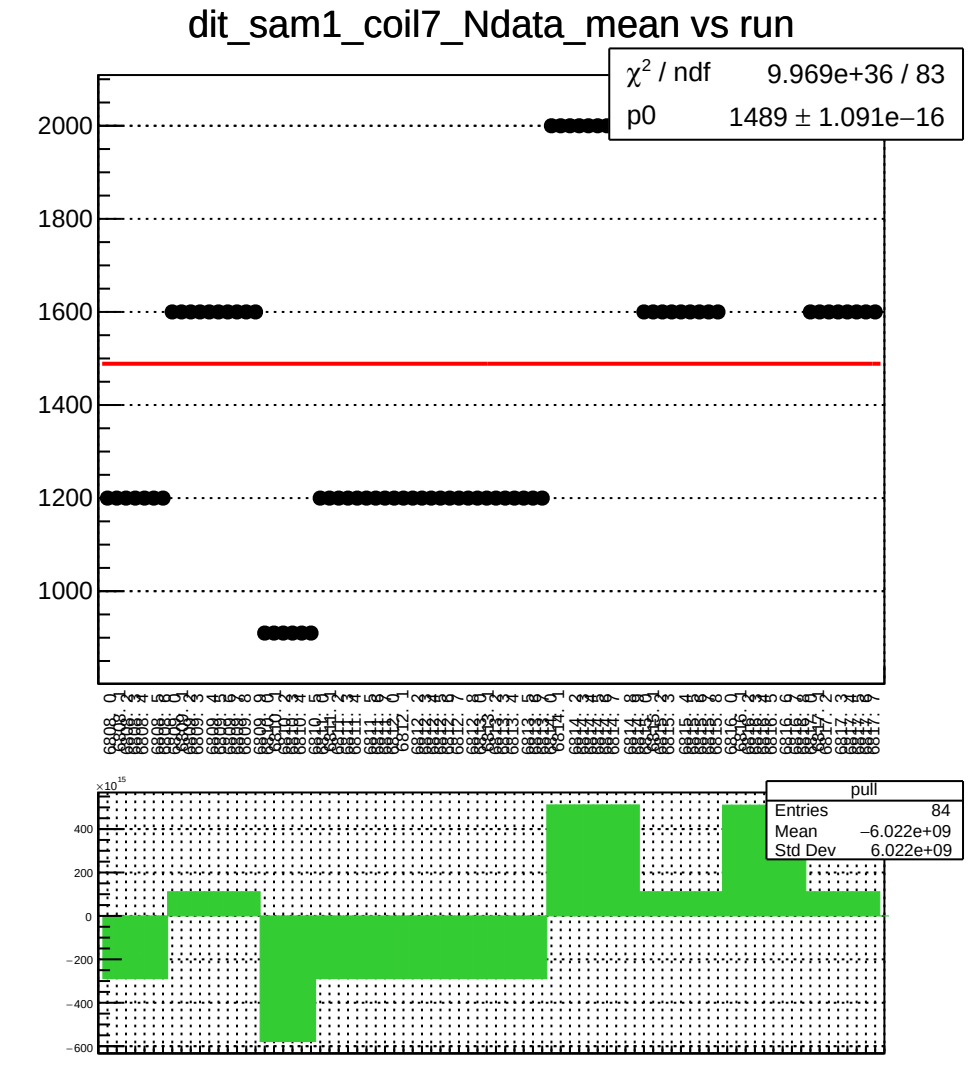

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

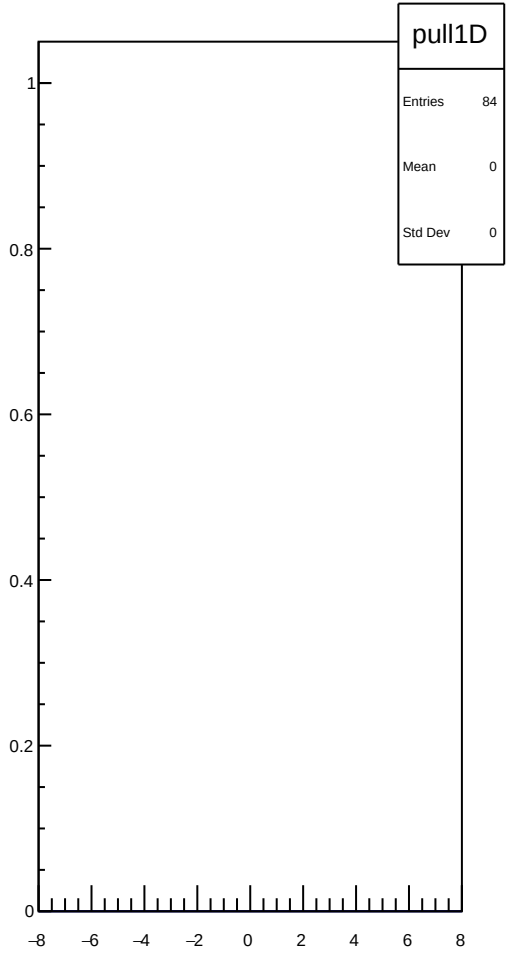

dit_sam1_coil7_mean vs run
χ² / ndf 3.84e+35 / 83
p0 2.968 ± 1.091e−16
150
100
50
0
−50
−100
pull
Entries 84
Mean −4.198e+09
Std Dev 4.198e+09
×10¹⁵
100
50
0
−50
−100

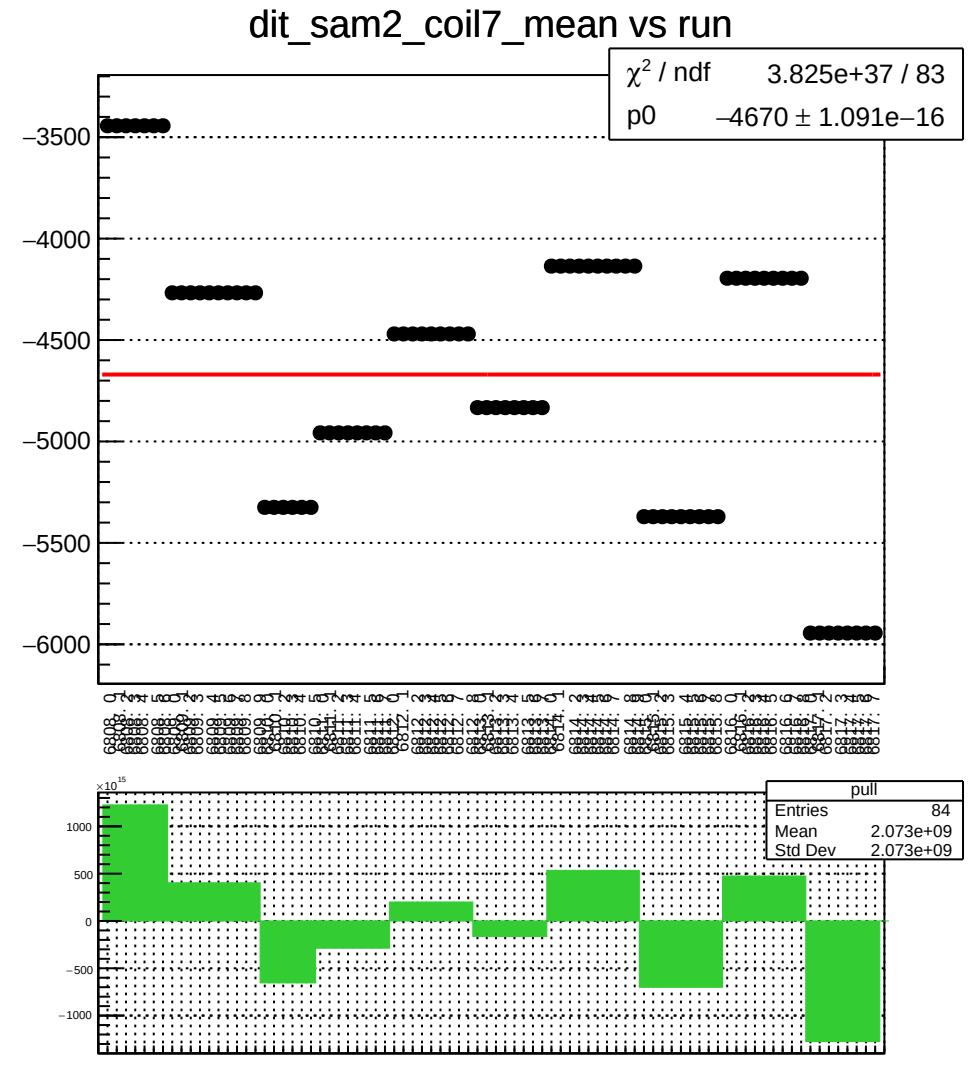

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

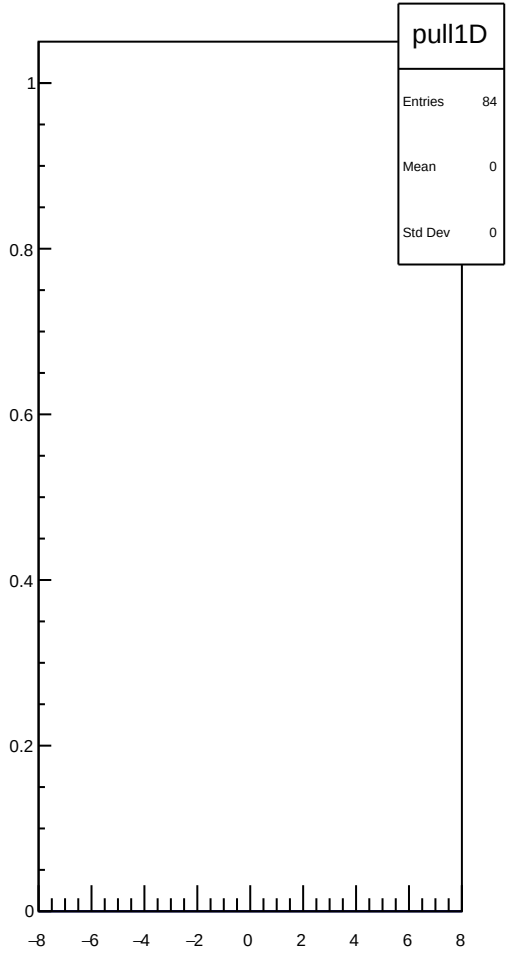

dit_sam1_coil7_err_mean vs run
χ² / ndf 4.319e+34 / 83
p0 93.33 ± 1.091e−16
pull
Entries 84
Mean 9.429e+09
Std Dev 9.429e+09

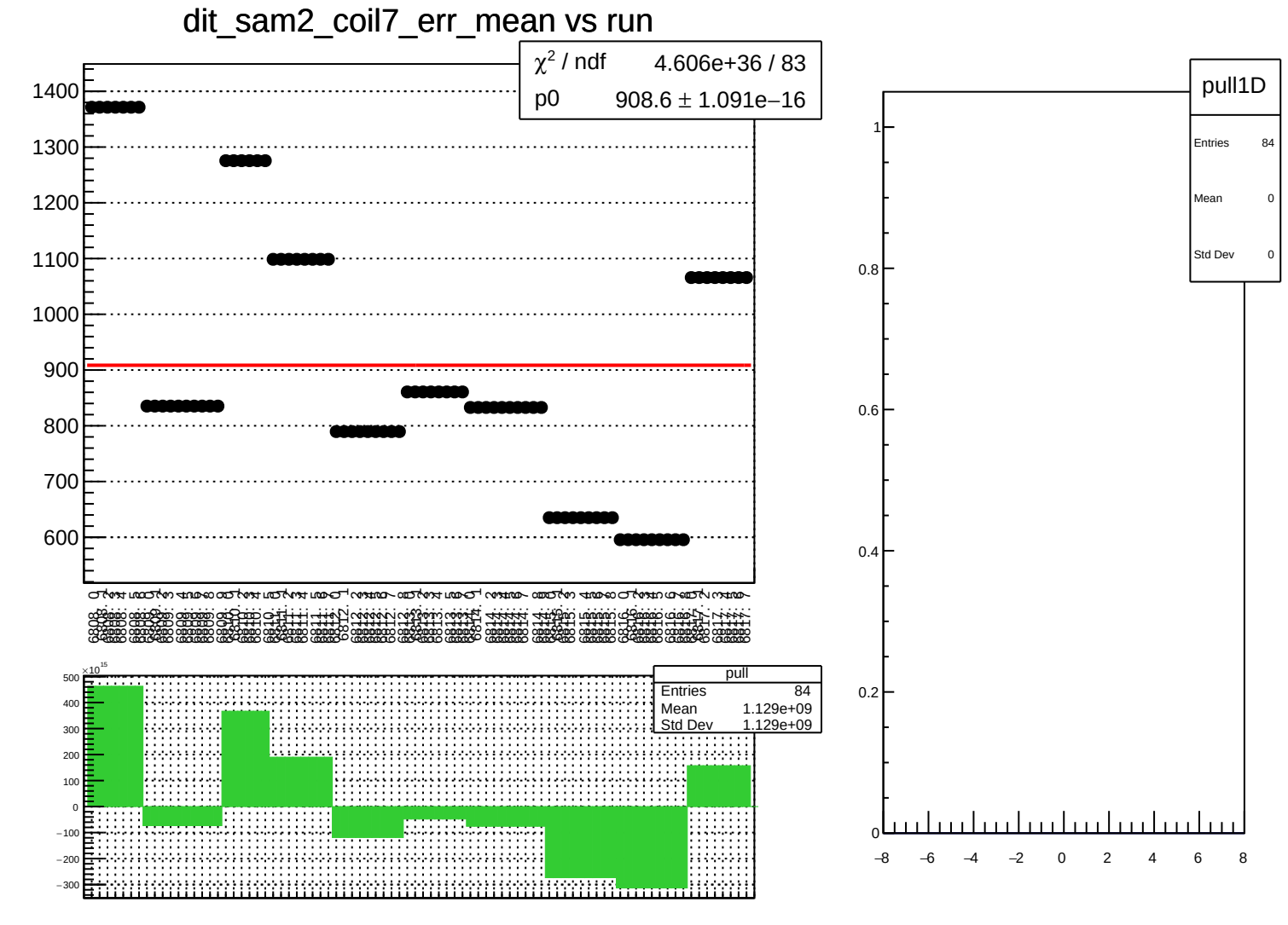

pull1D
Entries 84
Mean 0
Std Dev 0

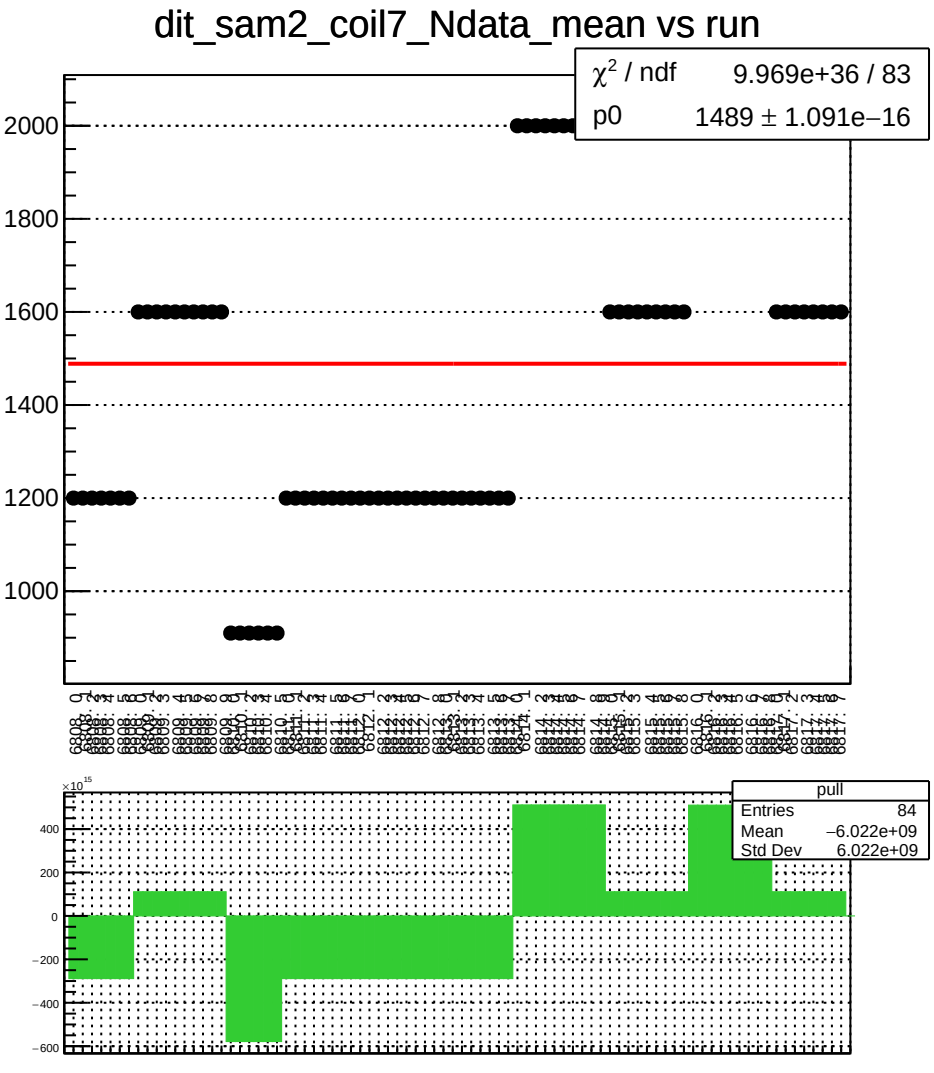

dit_sam1_coil7_Ndata_mean vs run
χ² / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09
×10¹⁵
400
200
0
−200
−400
−600

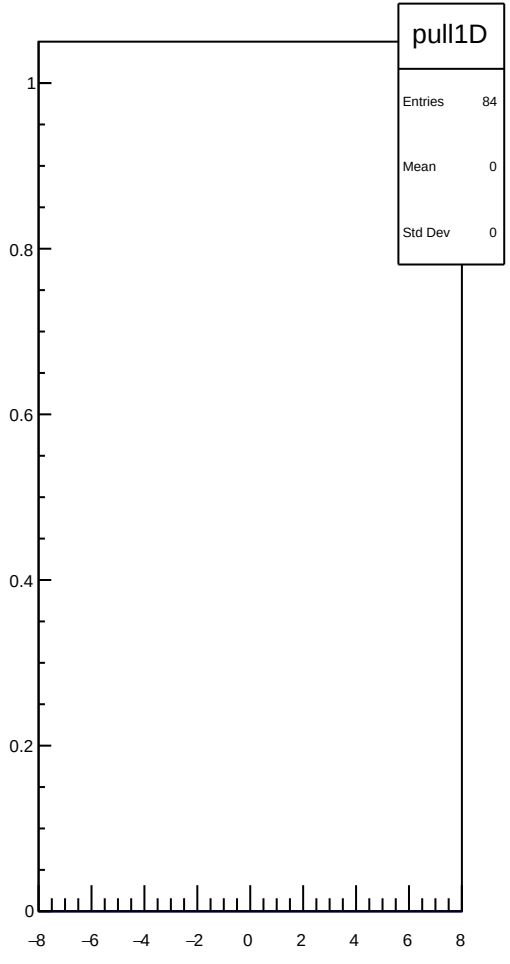

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

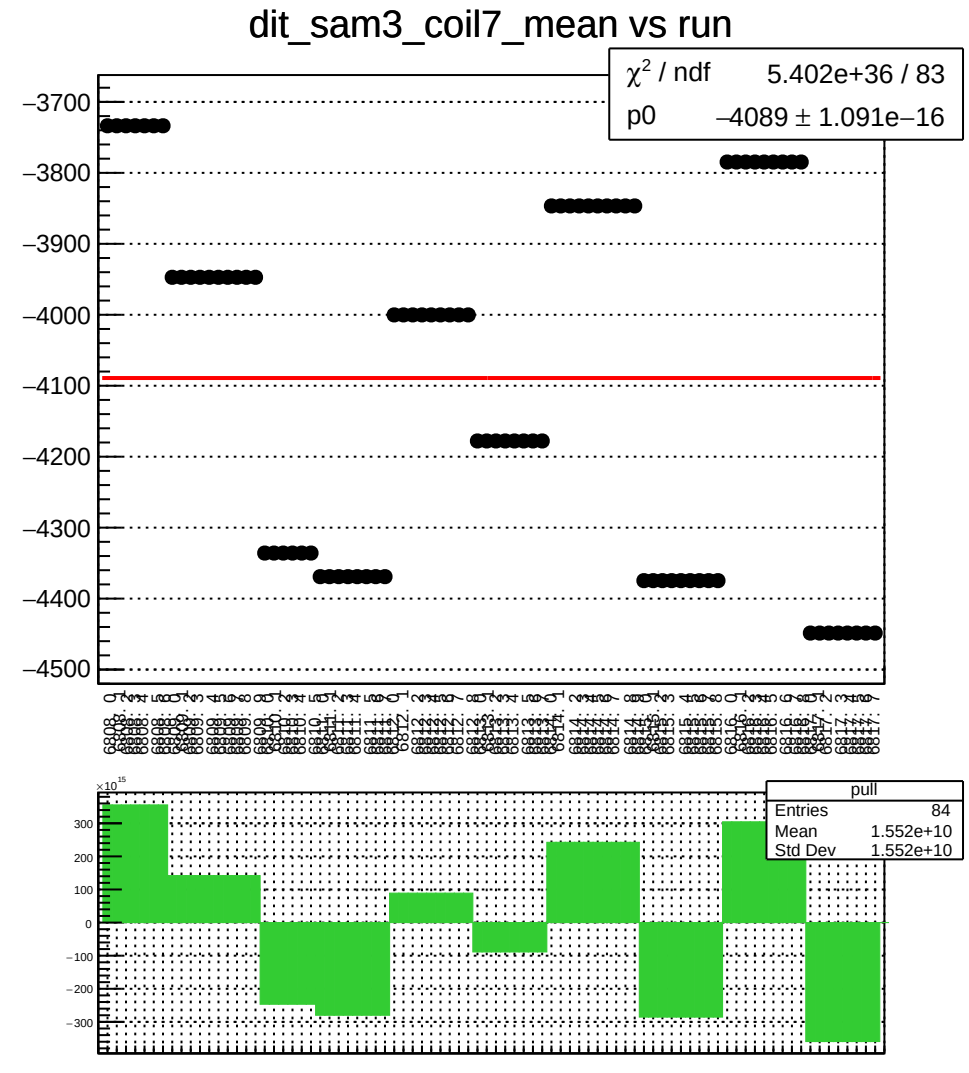

dit_sam2_coil7_mean vs run
χ² / ndf 3.825e+37 / 83
p0 −4670 ± 1.091e−16
−3500
−4000
−4500
−5000
−5500
−6000
×10¹⁵
1000
500
0
−500
−1000
pull
Entries 84
Mean 2.073e+09
Std Dev 2.073e+09

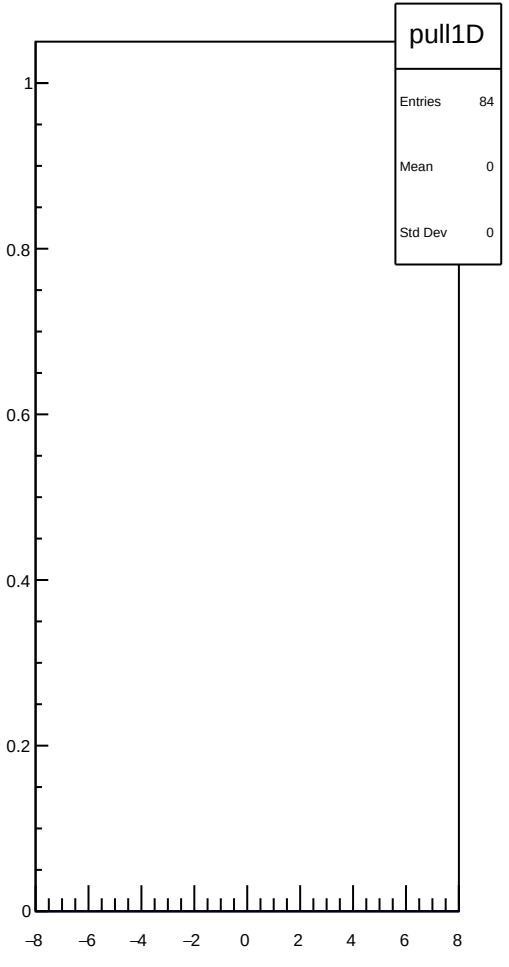

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

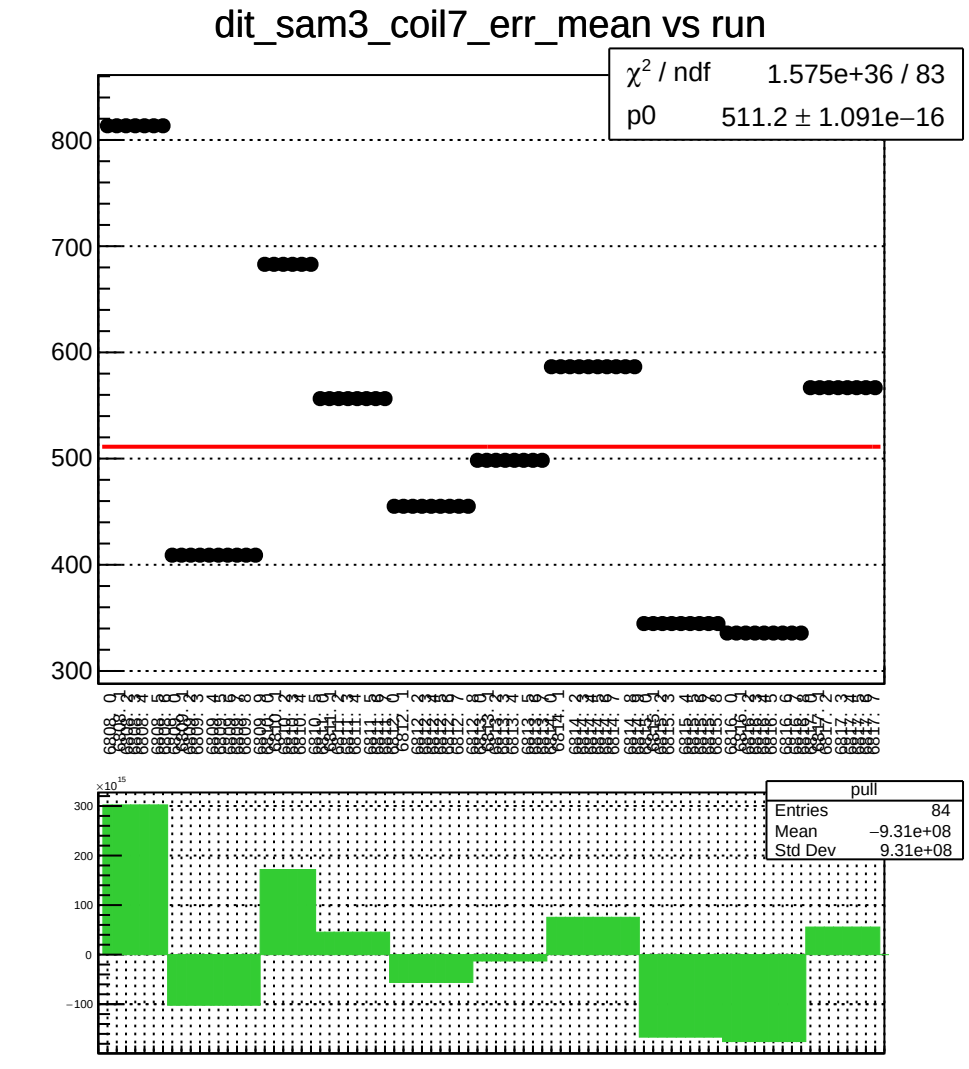

dit_sam2_coil7_err_mean vs run
χ² / ndf 4.606e+36 / 83
p0 908.6 ± 1.091e−16
1400
1300
1200
1100
1000
900
800
700
600
×10¹⁵
500
400
300
200
100
0
−100
−200
−300
pull
Entries 84
Mean 1.129e+09
Std Dev 1.129e+09
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

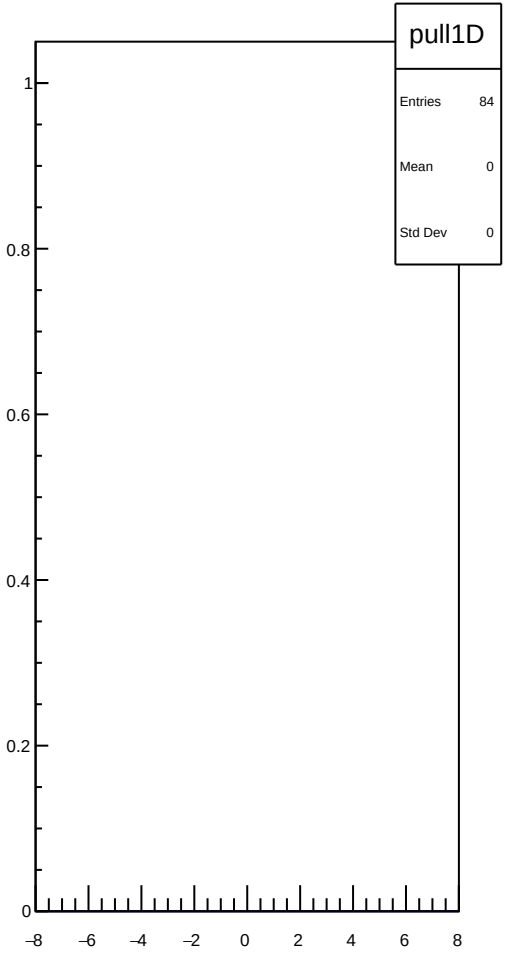

dit_sam2_coil7_Ndata_mean vs run
χ² / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09
×10¹⁵
400
200
0
−200
−400
−600

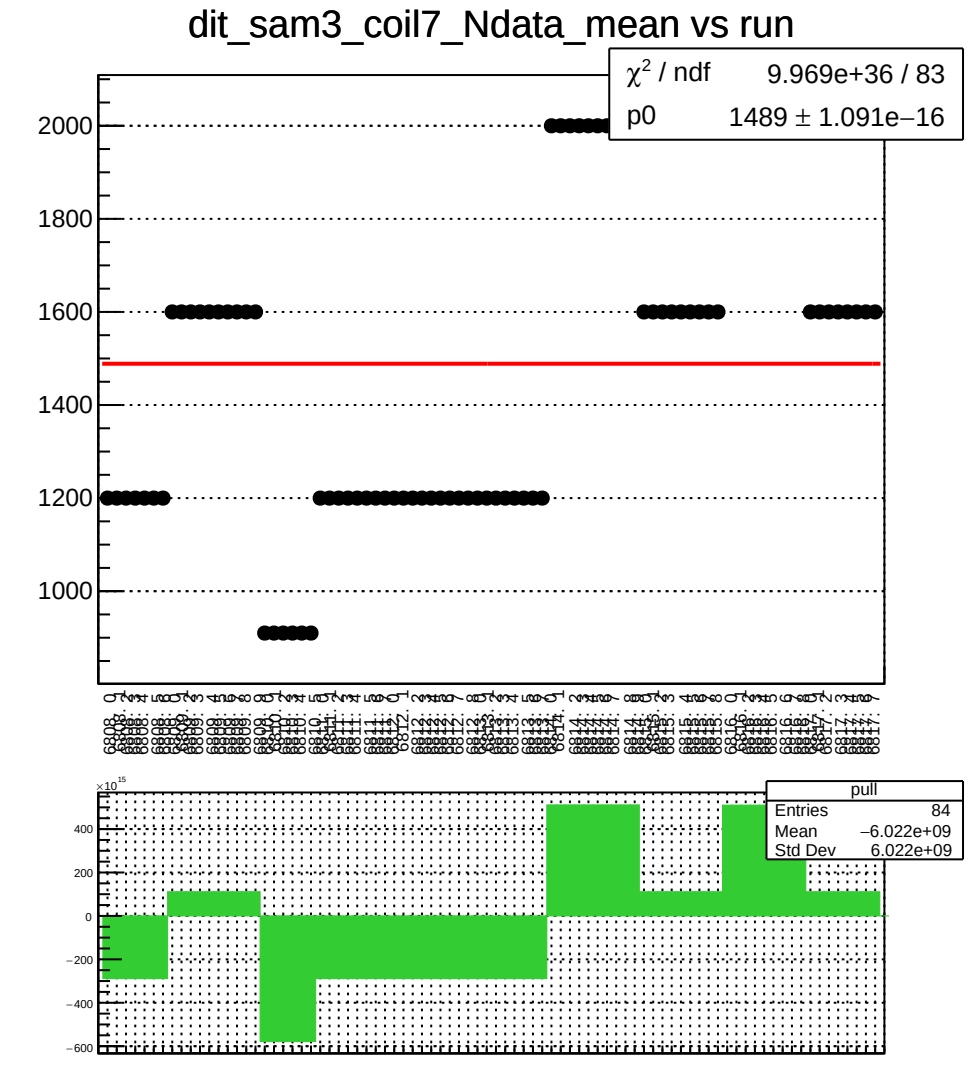

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

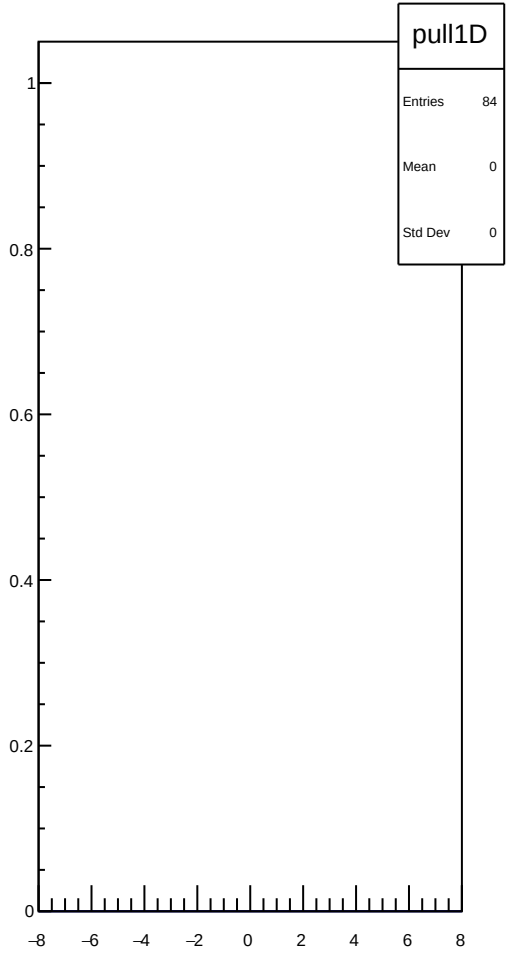

dit_sam3_coil7_mean vs run
χ² / ndf 5.402e+36 / 83
p0 −4089 ± 1.091e−16
−3700
−3800
−3900
−4000
−4100
−4200
−4300
−4400
−4500
pull
Entries 84
Mean 1.552e+10
Std Dev 1.552e+10
×10¹⁵
300
200
100
0
−100
−200
−300

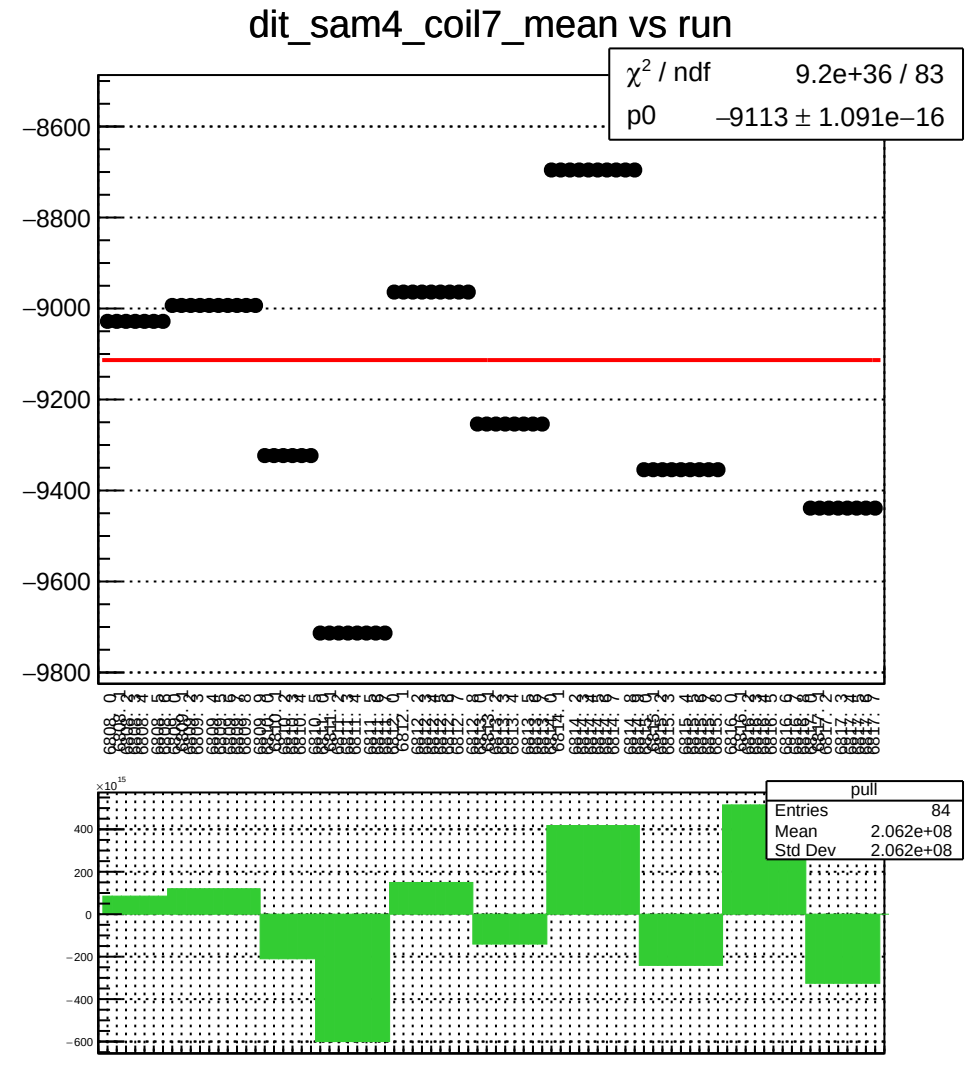

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

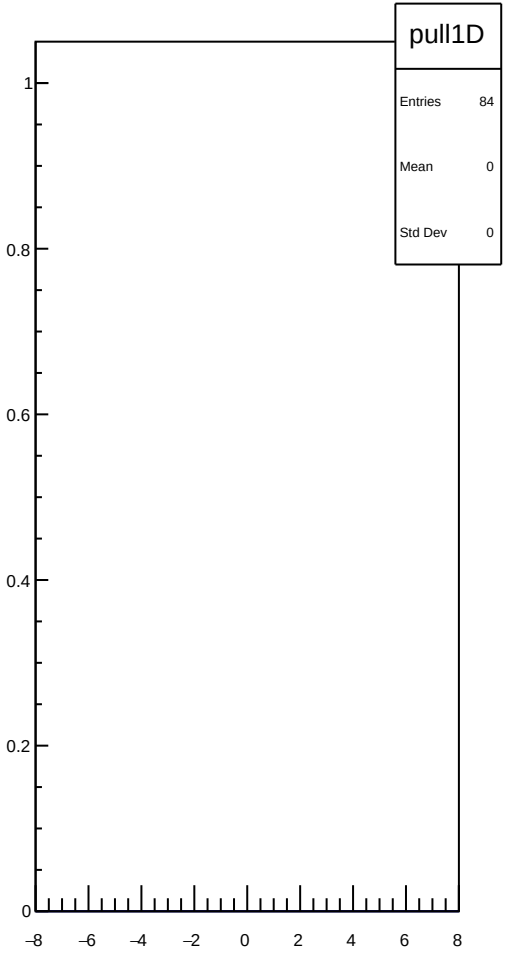

dit_sam3_coil7_err_mean vs run
χ² / ndf 1.575e+36 / 83
p0 511.2 ± 1.091e−16
800
700
600
500
400
300
pull
Entries 84
Mean −9.31e+08
Std Dev 9.31e+08
×10¹⁵
300
200
100
0
−100

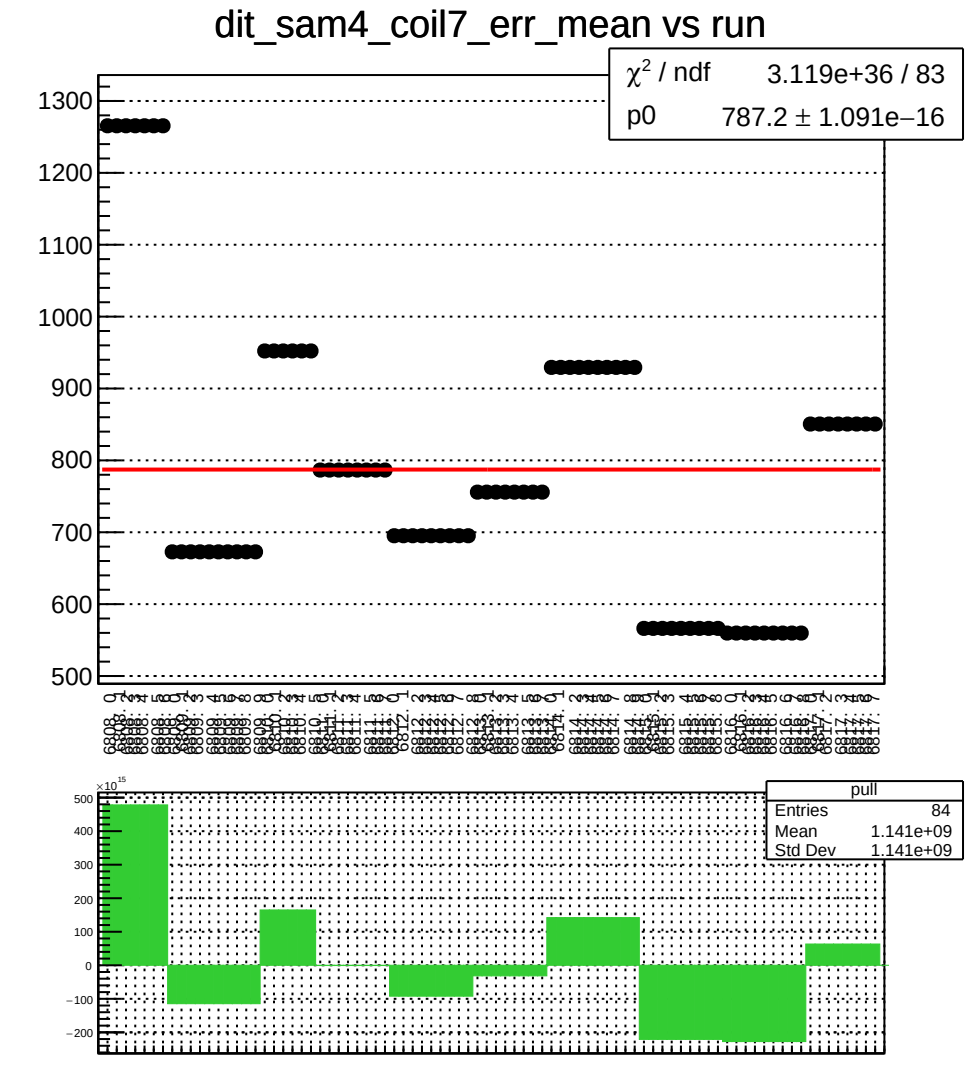

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

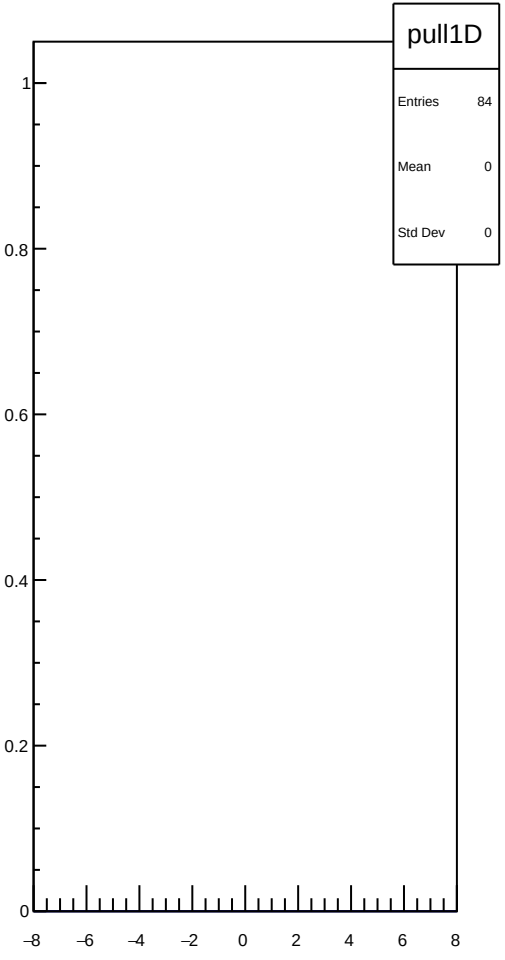

dit_sam3_coil7_Ndata_mean vs run
χ² / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
×10¹⁵
400
200
0
−200
−400
−600
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09

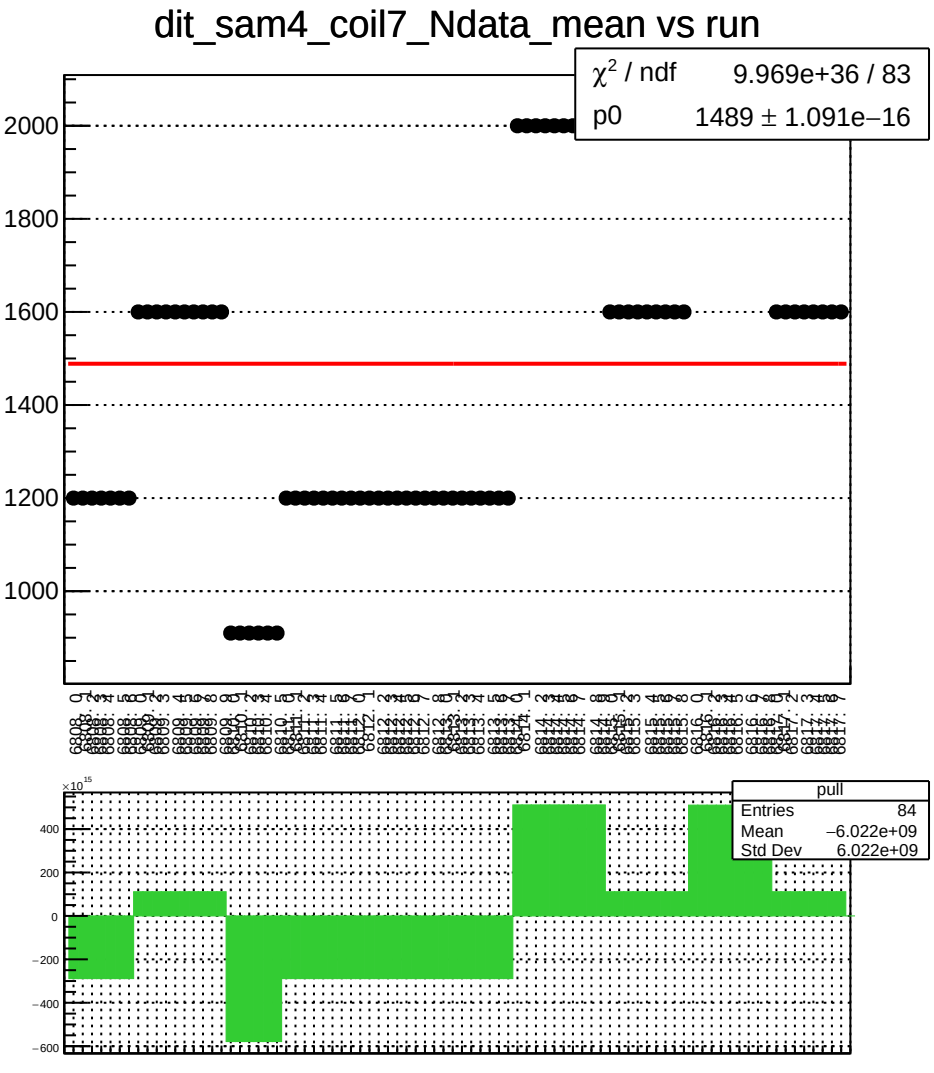

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

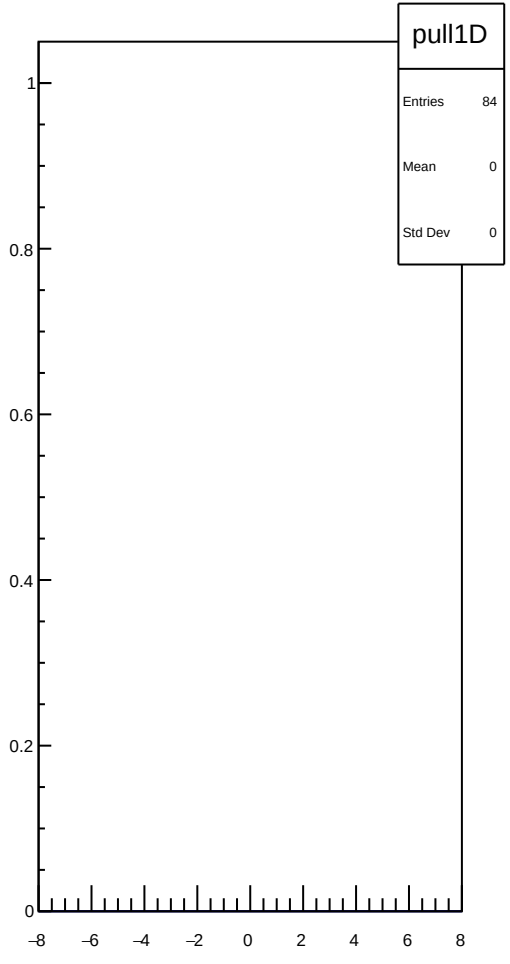

dit_sam4_coil7_mean vs run
χ² / ndf 9.2e+36 / 83
p0 −9113 ± 1.091e−16
−8600
−8800
−9000
−9200
−9400
−9600
−9800
pull
Entries 84
Mean 2.062e+08
Std Dev 2.062e+08
×10¹⁵
400
200
0
−200
−400
−600

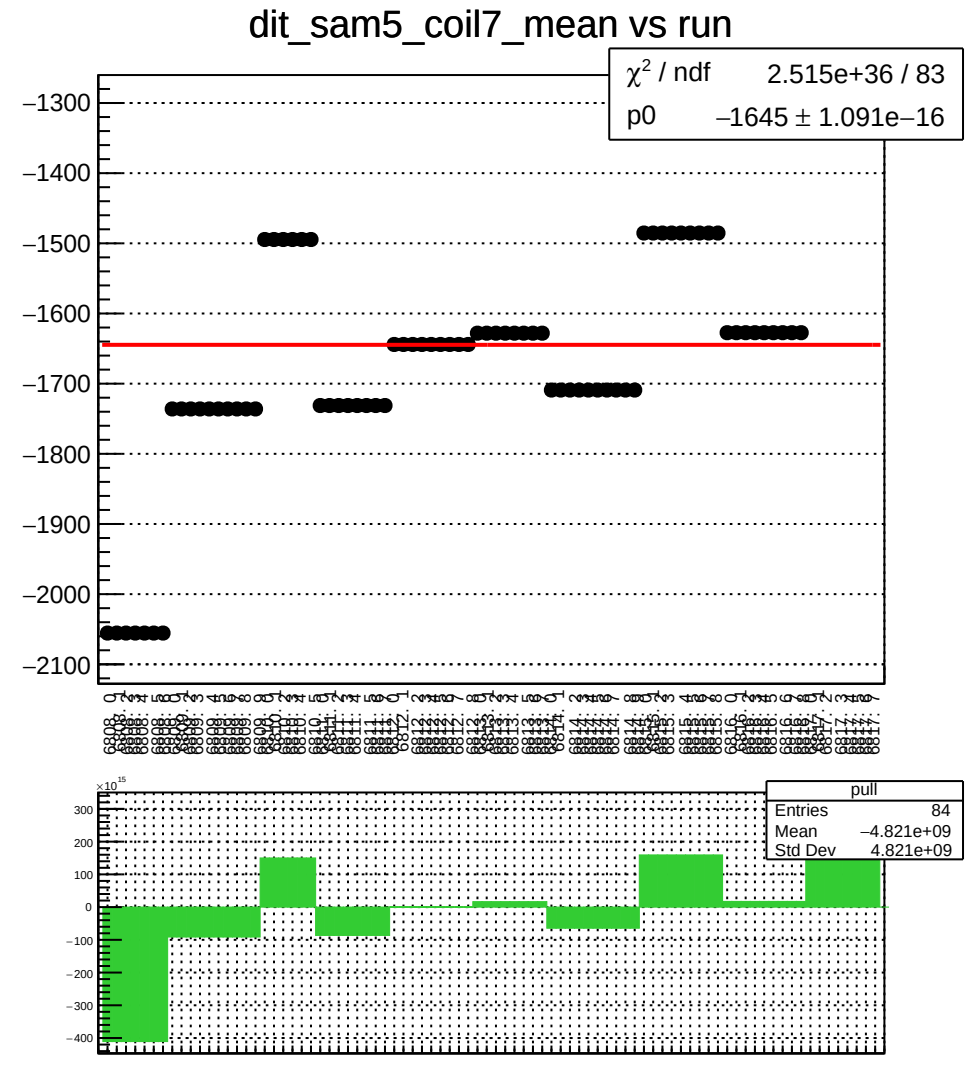

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

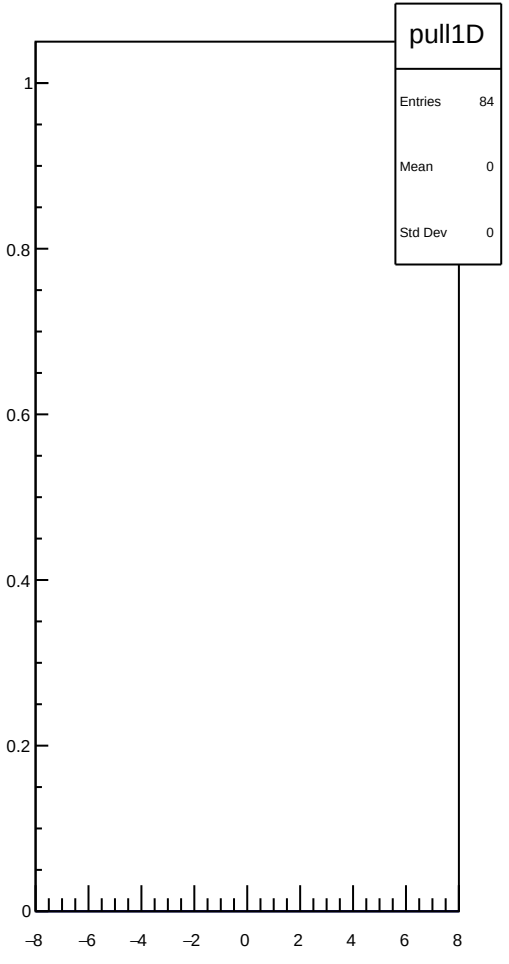

dit_sam4_coil7_err_mean vs run
χ² / ndf 3.119e+36 / 83
p0 787.2 ± 1.091e−16
pull
Entries 84
Mean 1.141e+09
Std Dev 1.141e+09

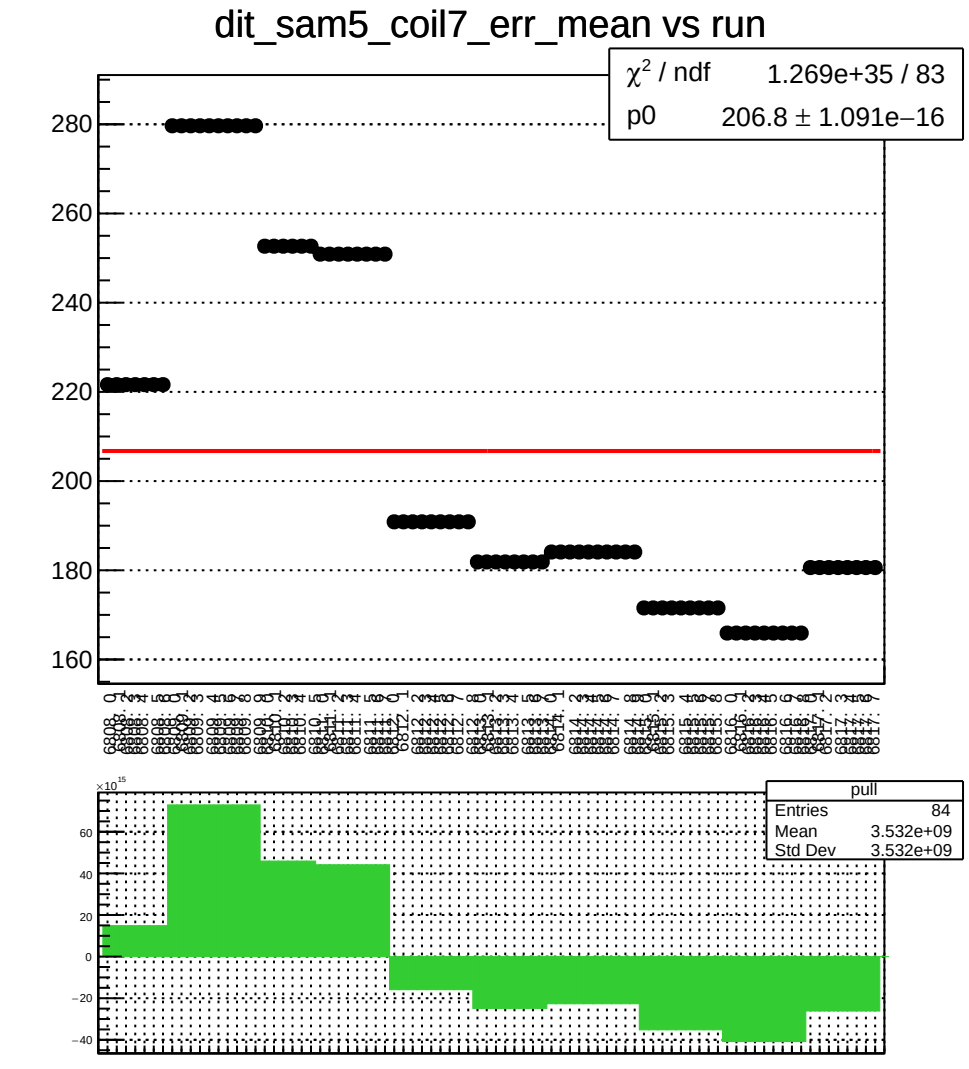

pull1D
Entries 84
Mean 0
Std Dev 0

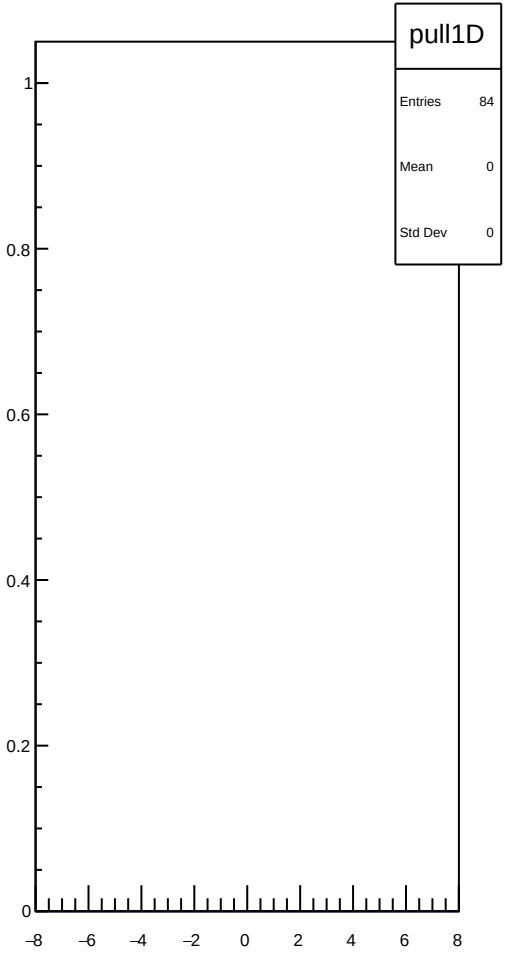

dit_sam4_coil7_Ndata_mean vs run
χ² / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09
×10¹⁵
400
200
0
−200
−400
−600

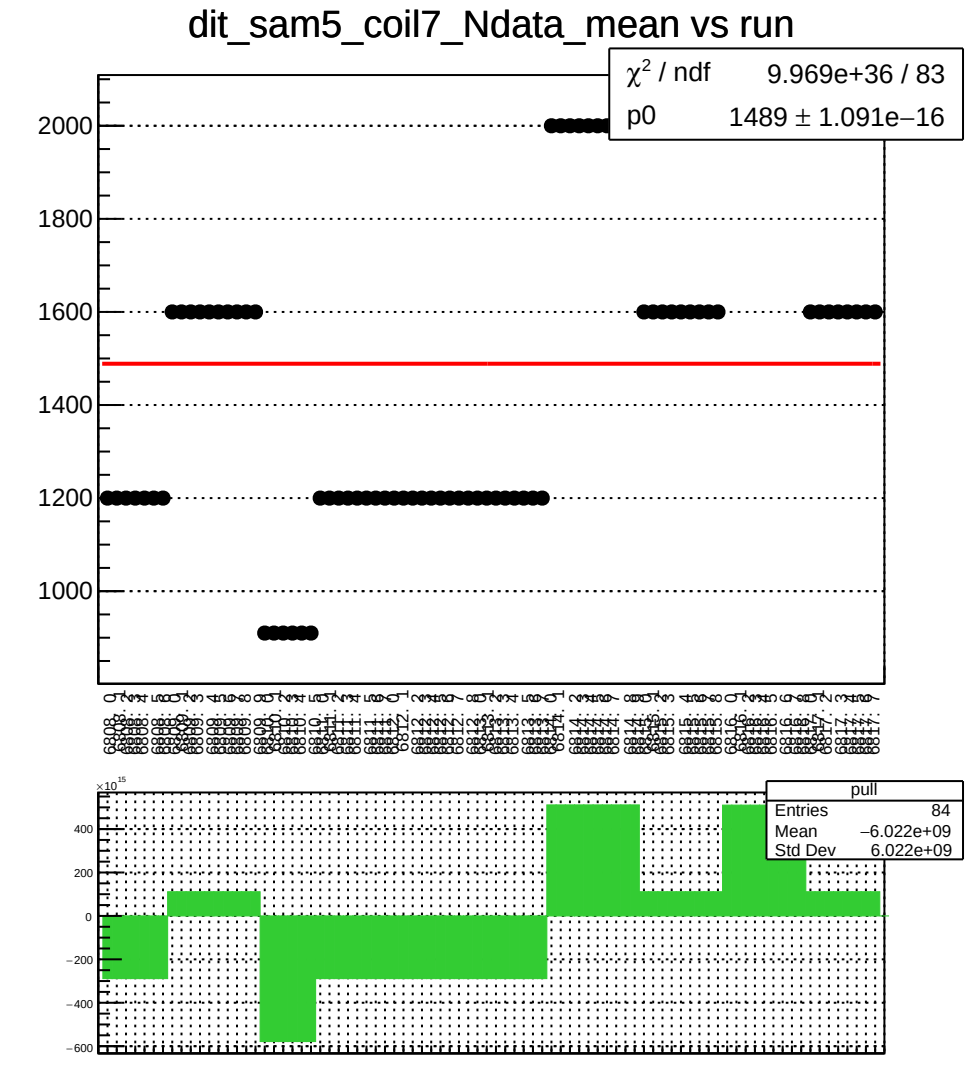

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

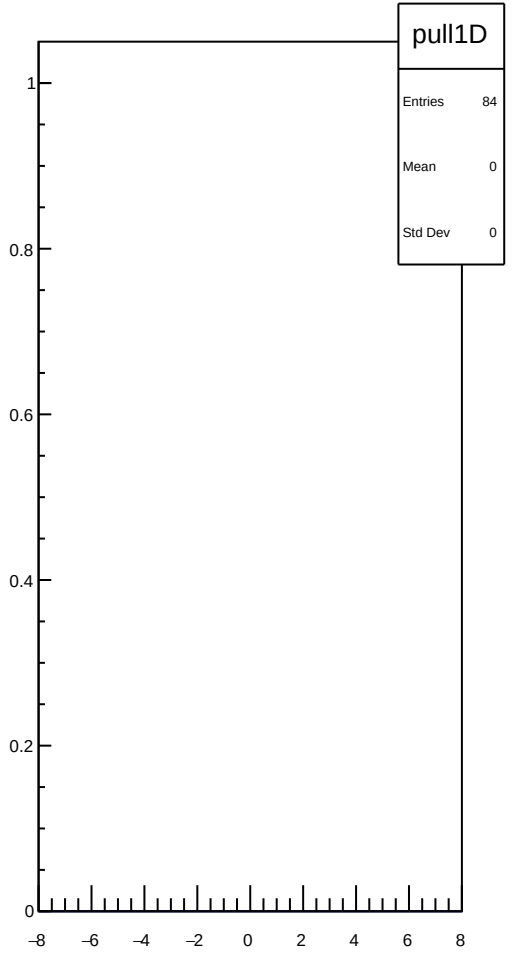

dit_sam5_coil7_mean vs run
χ² / ndf 2.515e+36 / 83
p0 −1645 ± 1.091e−16
−1300
−1400
−1500
−1600
−1700
−1800
−1900
−2000
−2100
pull
Entries 84
Mean −4.821e+09
Std Dev 4.821e+09
×10¹⁵
300
200
100
0
−100
−200
−300
−400

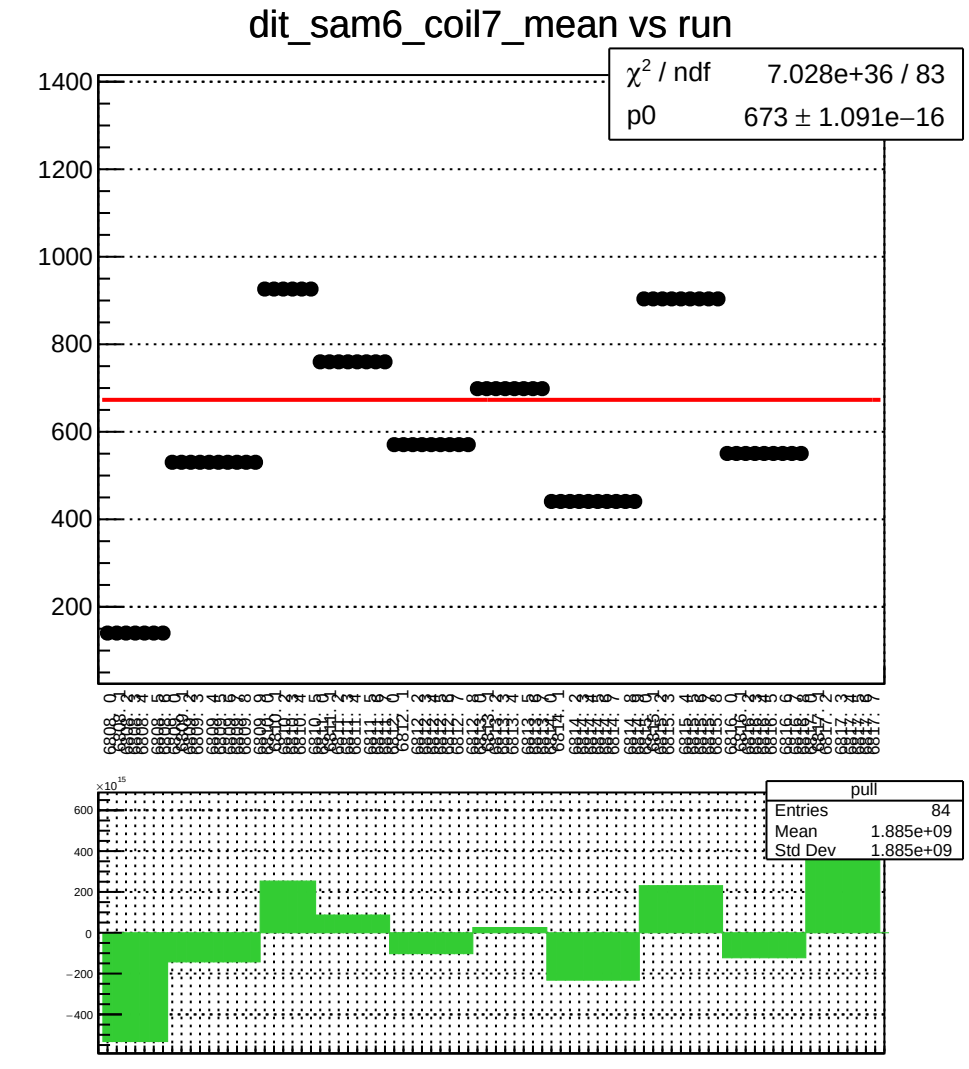

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

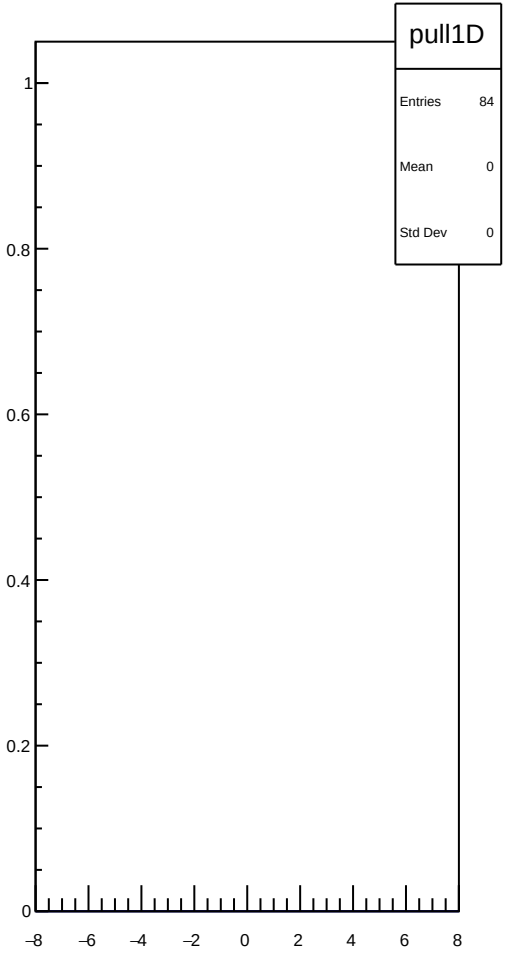

dit_sam5_coil7_err_mean vs run
χ² / ndf 1.269e+35 / 83
p0 206.8 ± 1.091e−16
280
260
240
220
200
180
160
×10¹⁵
60
40
20
0
−20
−40
pull
Entries 84
Mean 3.532e+09
Std Dev 3.532e+09

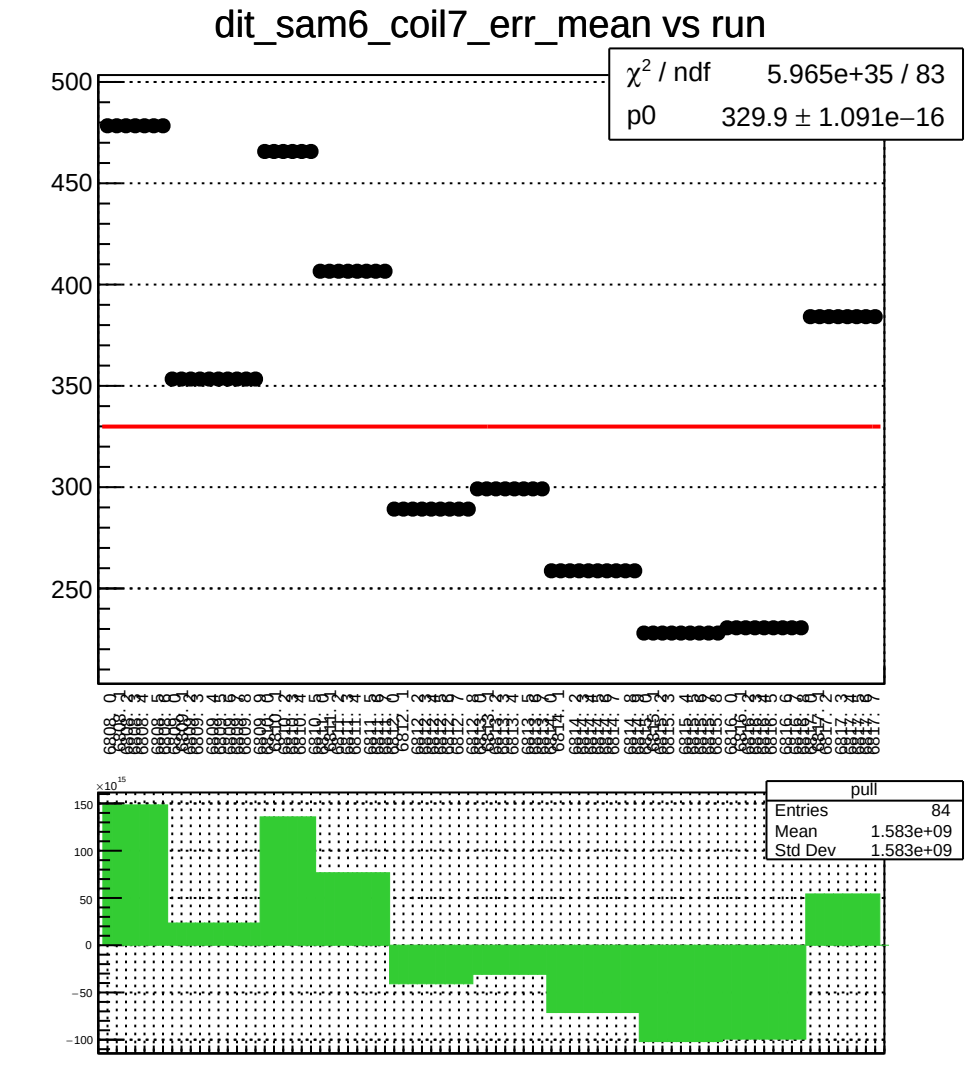

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

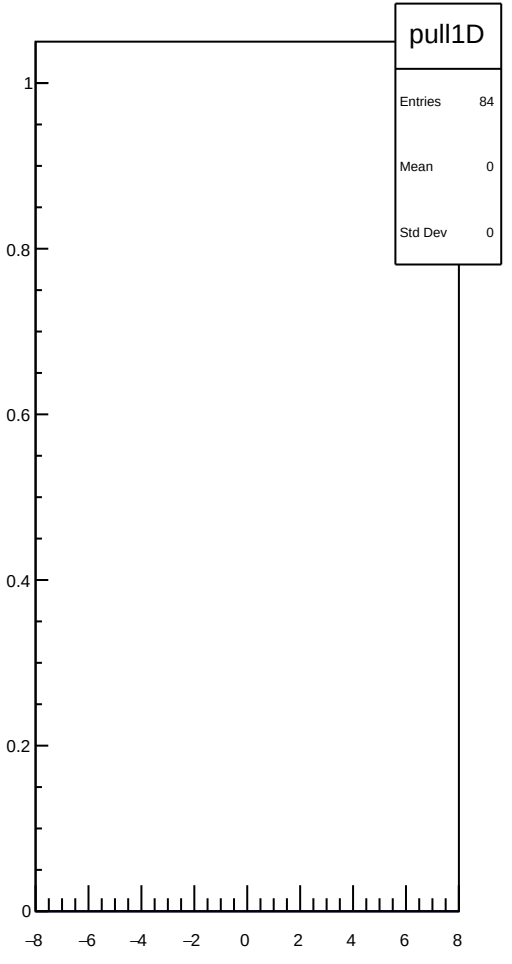

dit_sam5_coil7_Ndata_mean vs run
χ² / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09
×10¹⁵
400
200
0
−200
−400
−600

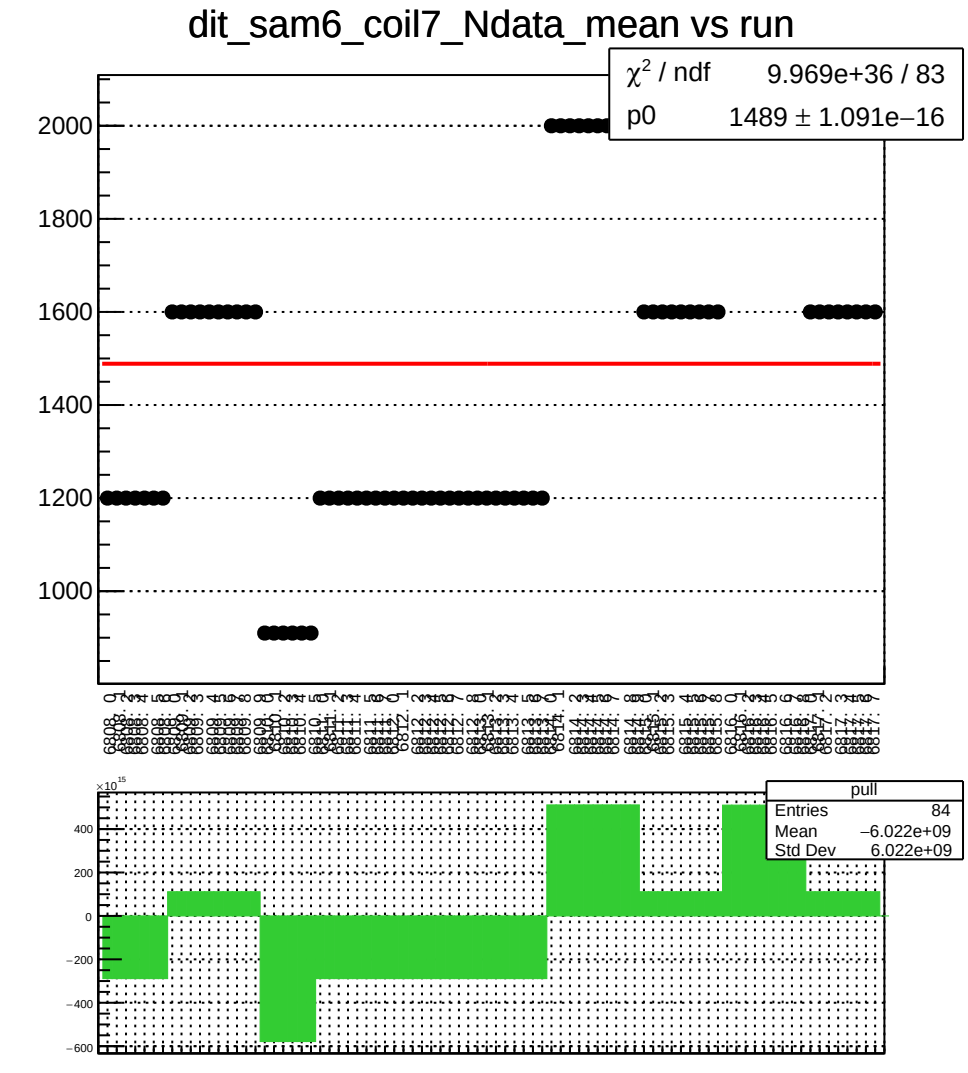

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

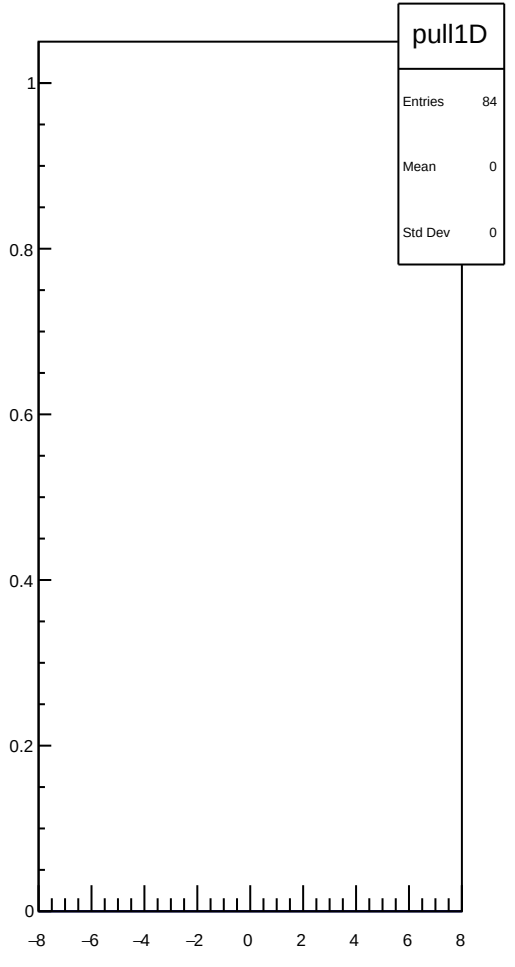

dit_sam6_coil7_mean vs run
χ² / ndf 7.028e+36 / 83
p0 673 ± 1.091e−16
1400
1200
1000
800
600
400
200
×10¹⁵
600
400
200
0
−200
−400
pull
Entries 84
Mean 1.885e+09
Std Dev 1.885e+09

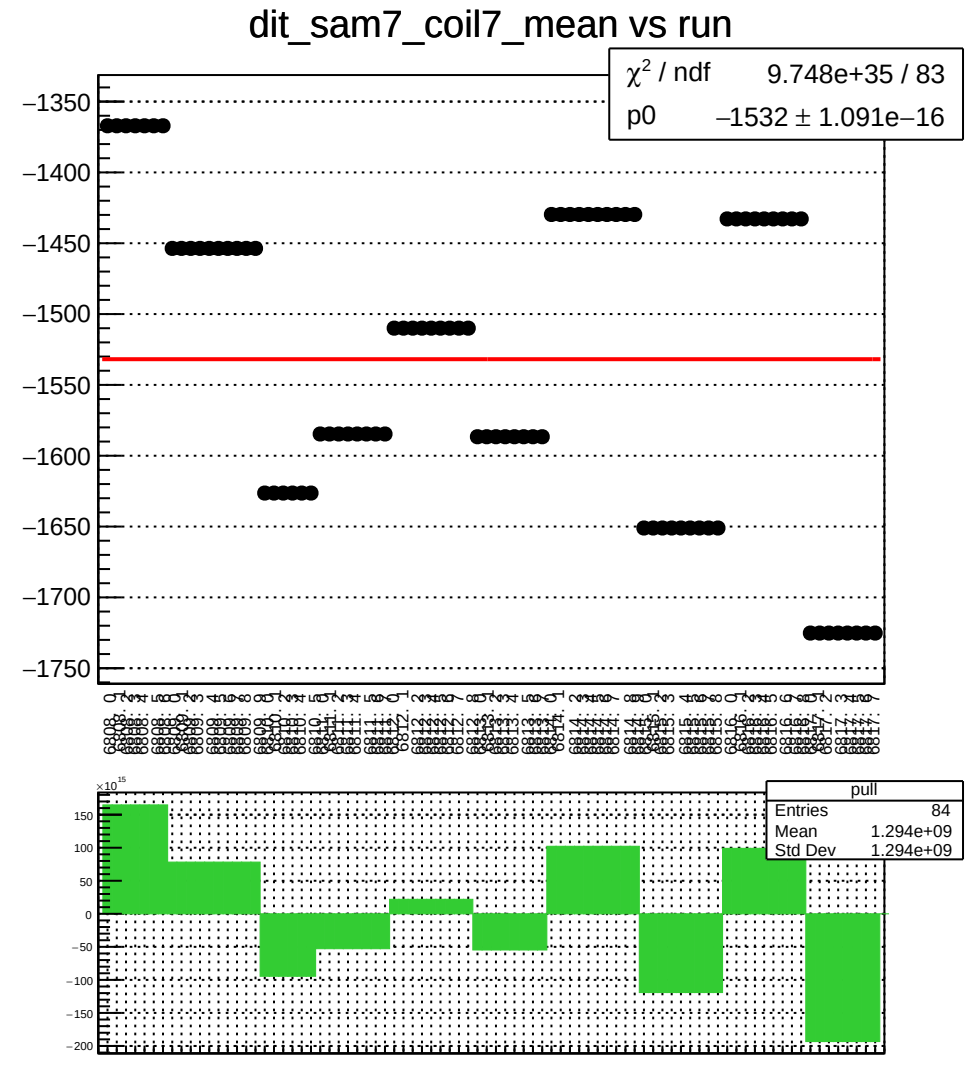

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

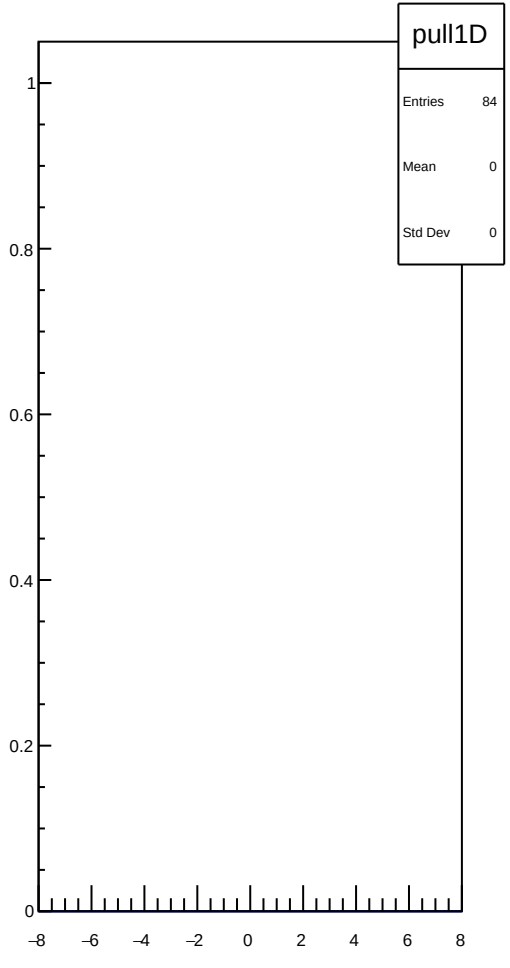

dit_sam6_coil7_err_mean vs run
χ² / ndf 5.965e+35 / 83
p0 329.9 ± 1.091e−16
500
450
400
350
300
250
pull
Entries 84
Mean 1.583e+09
Std Dev 1.583e+09
×10¹⁵
150
100
50
0
−50
−100

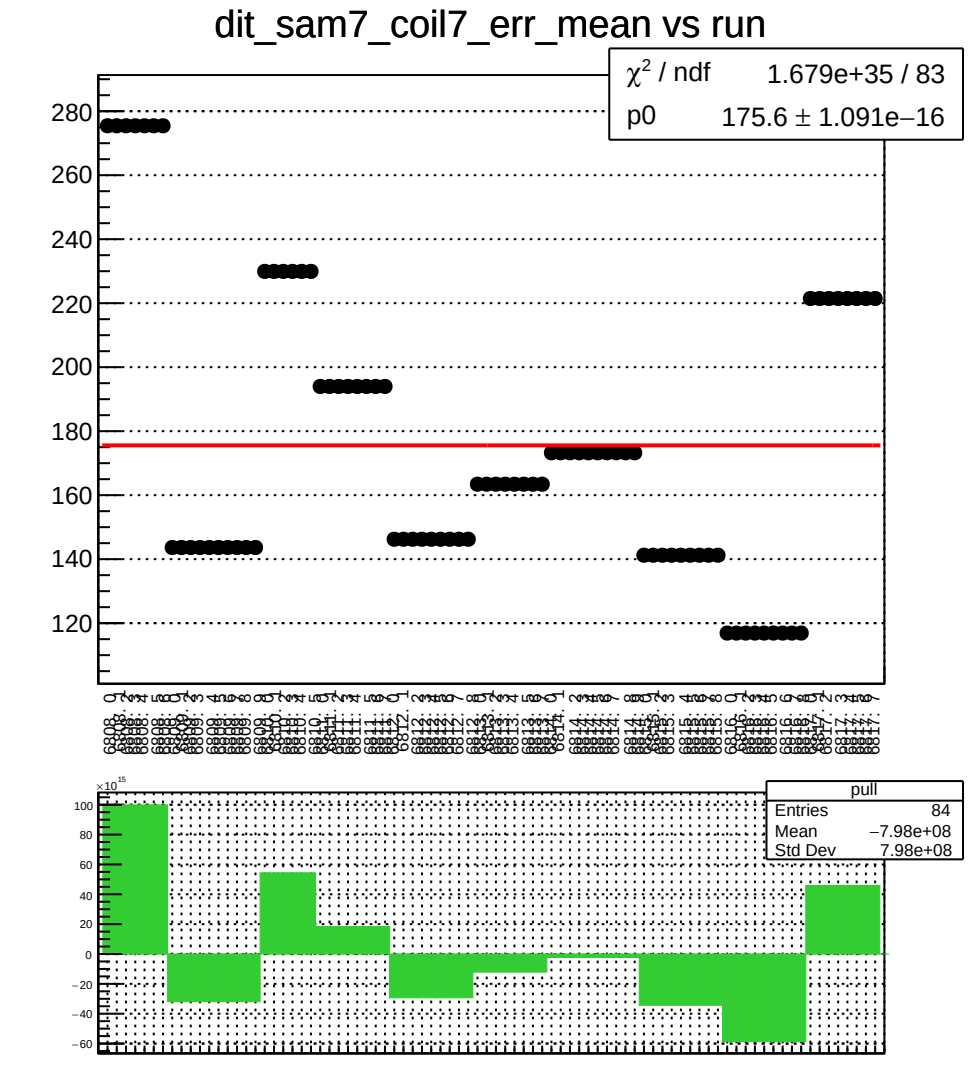

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

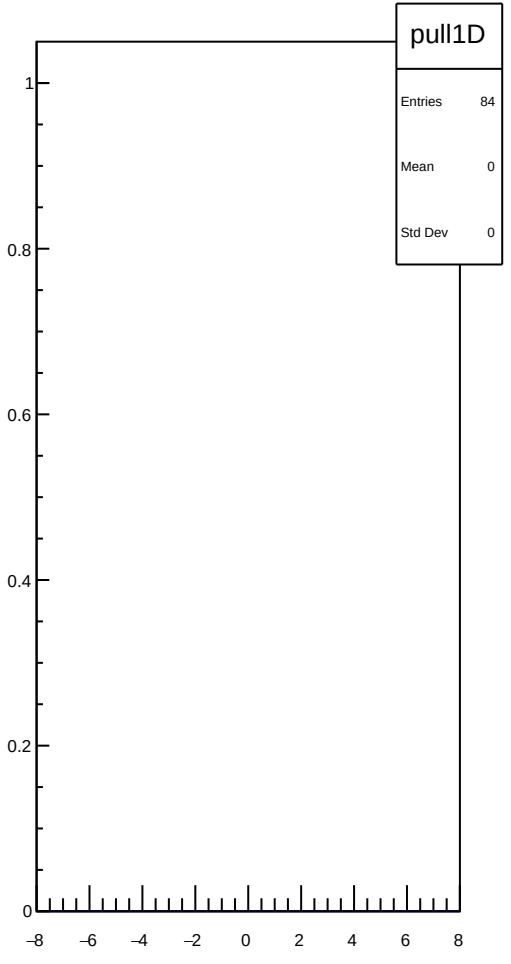

dit_sam6_coil7_Ndata_mean vs run
χ² / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09
×10¹⁵
400
200
0
−200
−400
−600

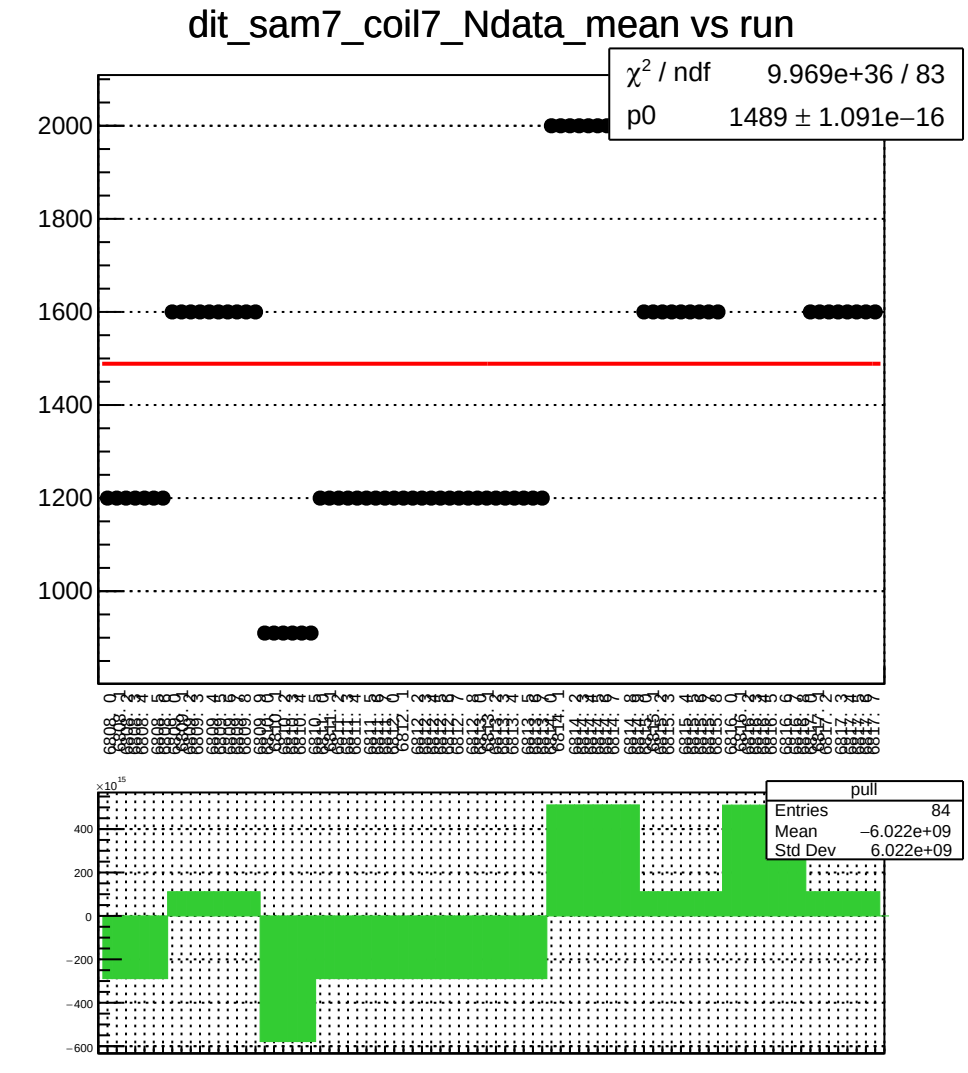

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

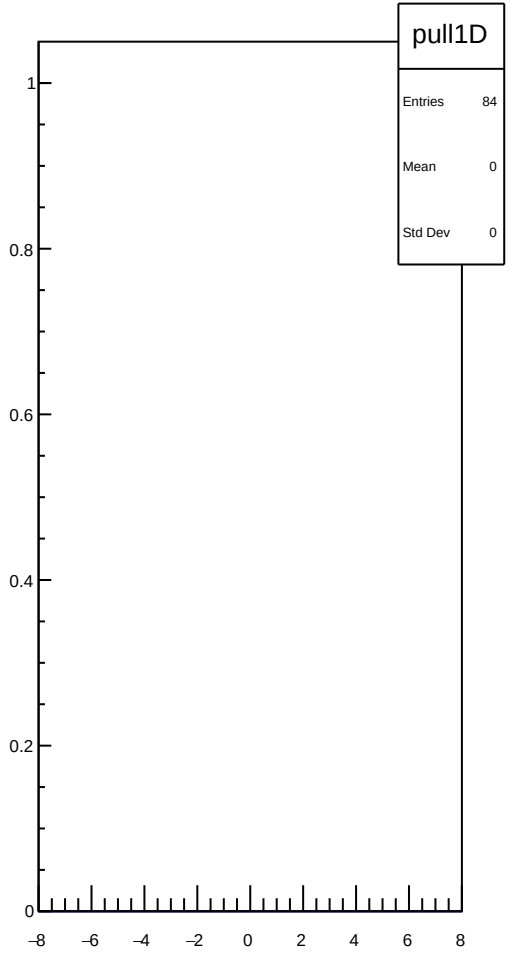

dit_sam7_coil7_mean vs run
χ² / ndf 9.748e+35 / 83
p0 −1532 ± 1.091e−16
pull
Entries 84
Mean 1.294e+09
Std Dev 1.294e+09

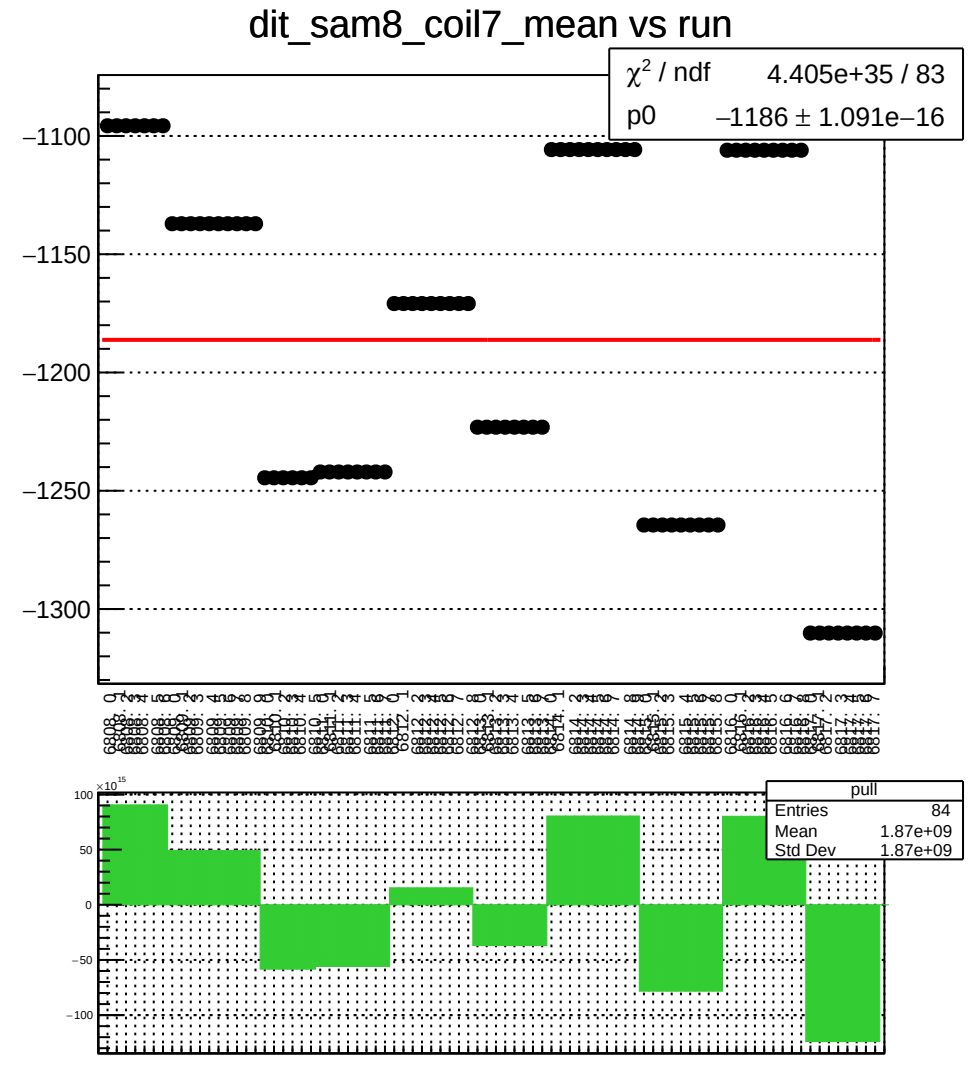

pull1D
Entries 84
Mean 0
Std Dev 0

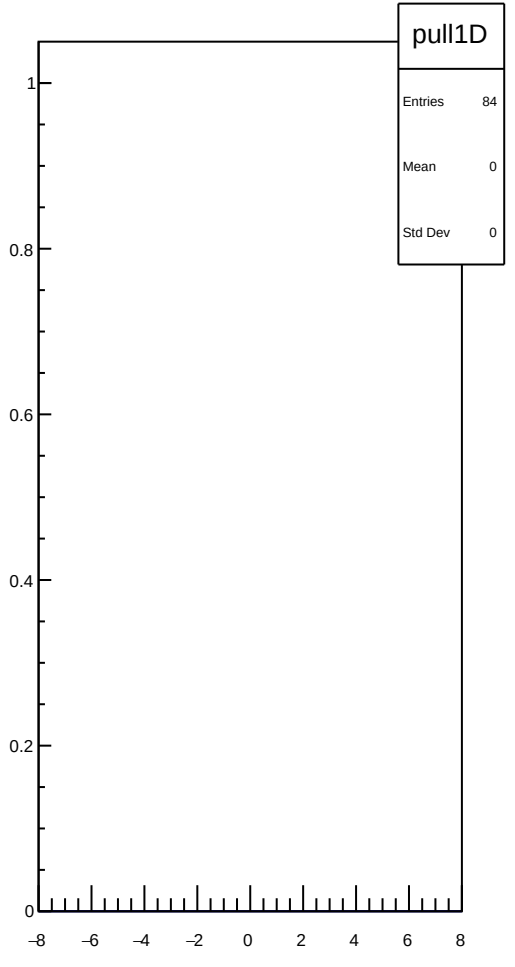

dit_sam7_coil7_err_mean vs run
χ² / ndf 1.679e+35 / 83
p0 175.6 ± 1.091e−16
pull
Entries 84
Mean −7.98e+08
Std Dev 7.98e+08

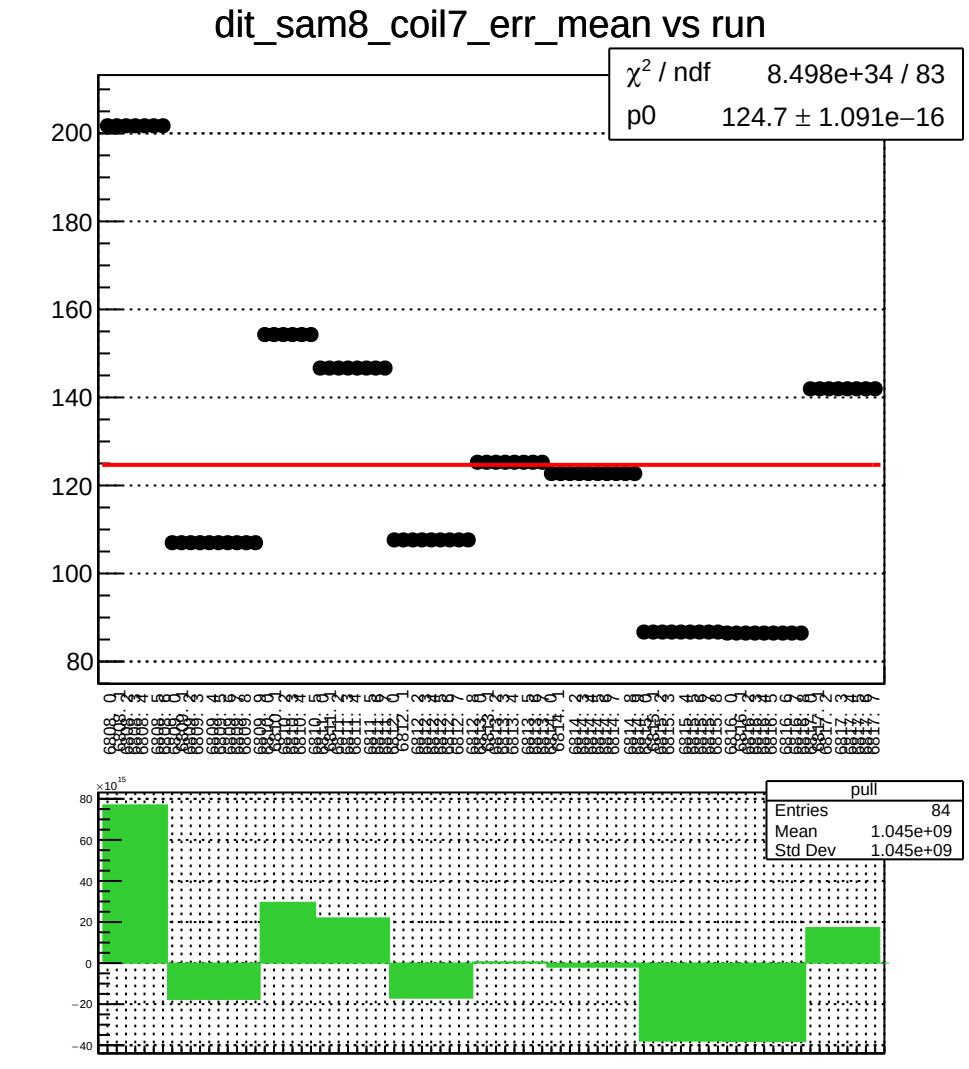

pull1D
Entries 84
Mean 0
Std Dev 0

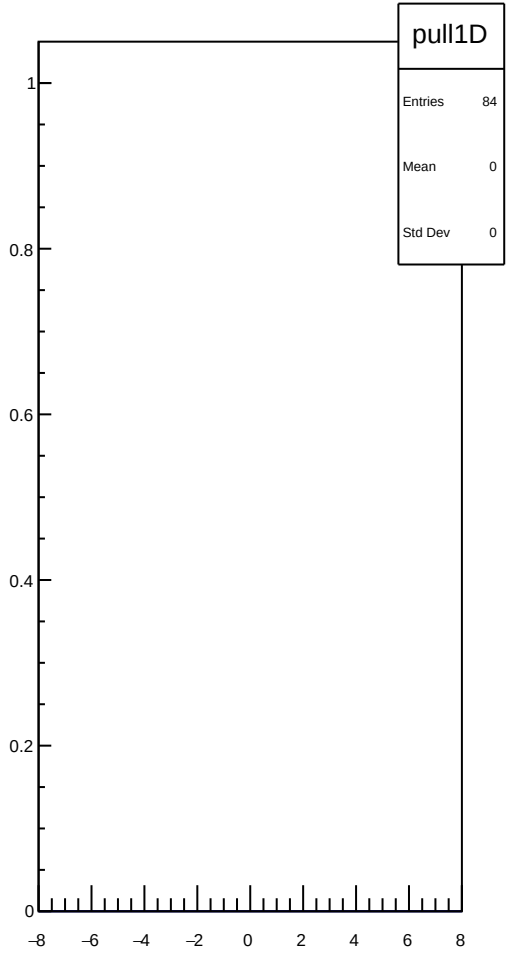

dit_sam7_coil7_Ndata_mean vs run
χ^2 / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09
×10^15
400
200
0
−200
−400
−600

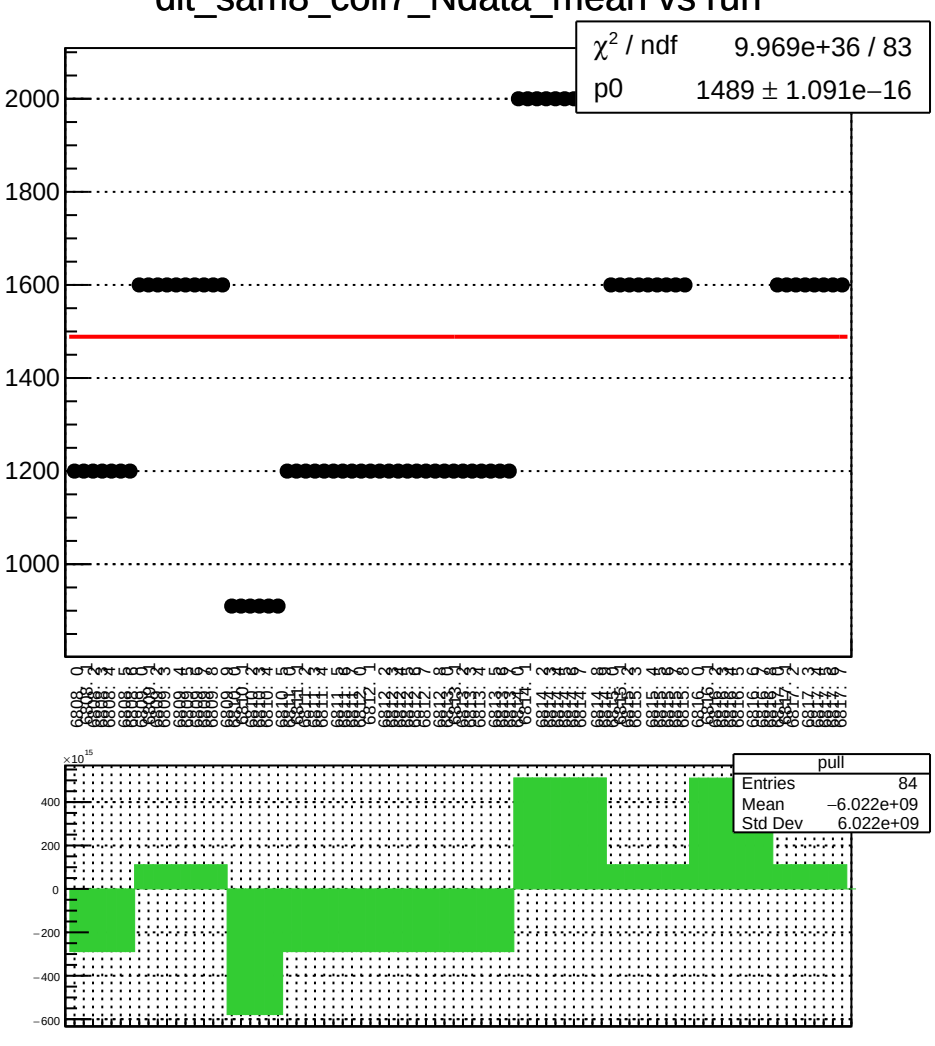

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

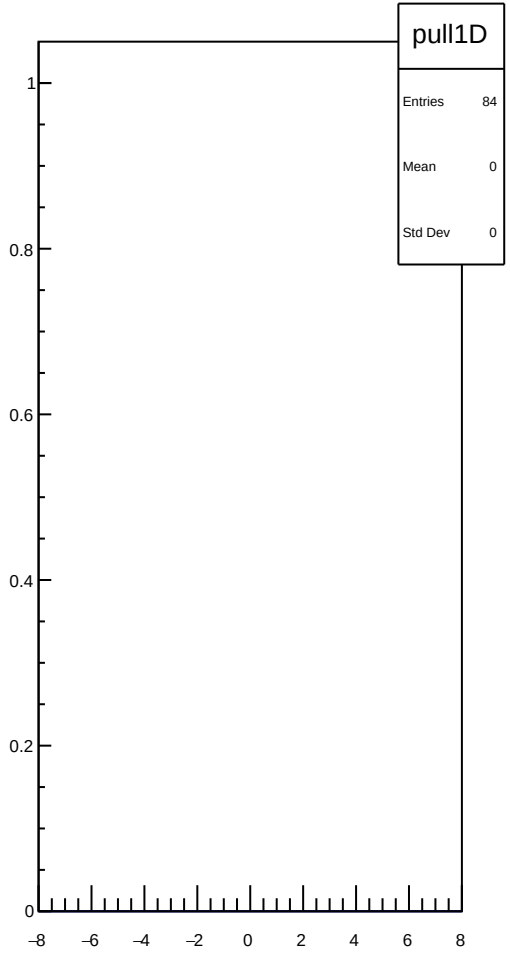

dit_sam8_coil7_mean vs run
χ² / ndf 4.405e+35 / 83
p0 −1186 ± 1.091e−16
−1100
−1150
−1200
−1250
−1300
pull
Entries 84
Mean 1.87e+09
Std Dev 1.87e+09
×10¹⁵
100
50
0
−50
−100

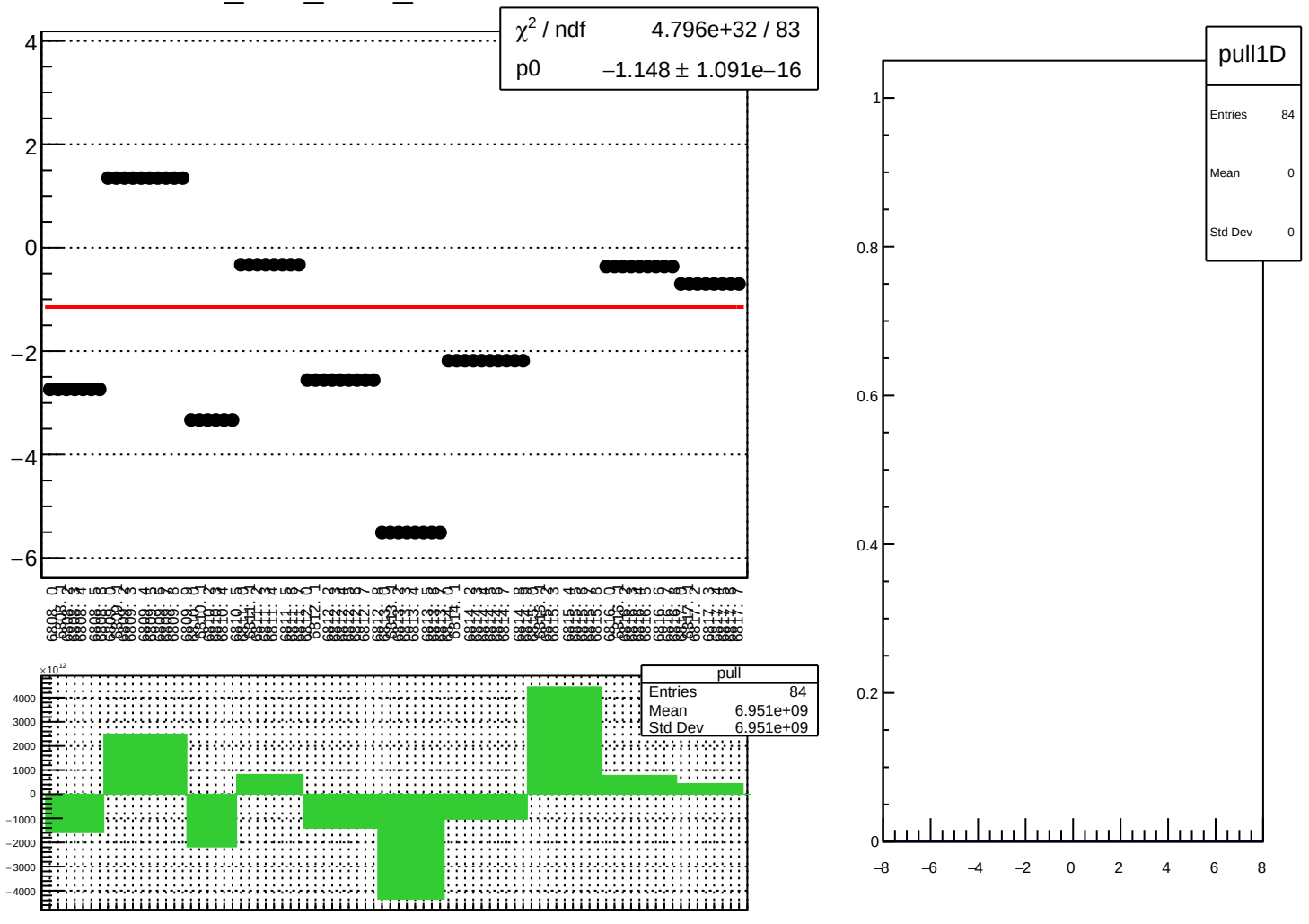

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

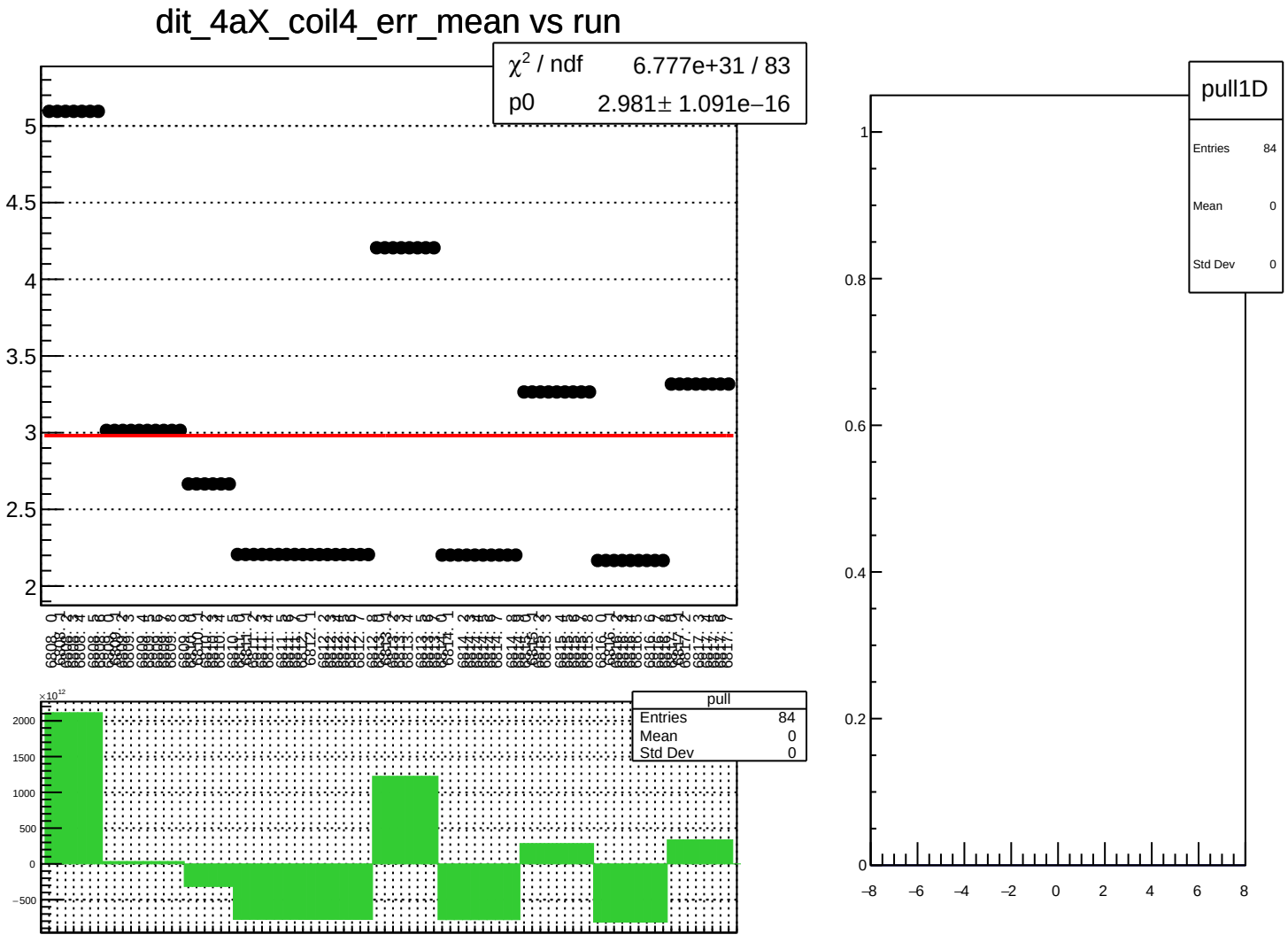

dit_sam8_coil7_err_mean vs run
χ² / ndf 8.498e+34 / 83
p0 124.7 ± 1.091e−16
200
180
160
140
120
100
80
pull
Entries 84
Mean 1.045e+09
Std Dev 1.045e+09
×10¹⁵
80
60
40
20
0
−20
−40

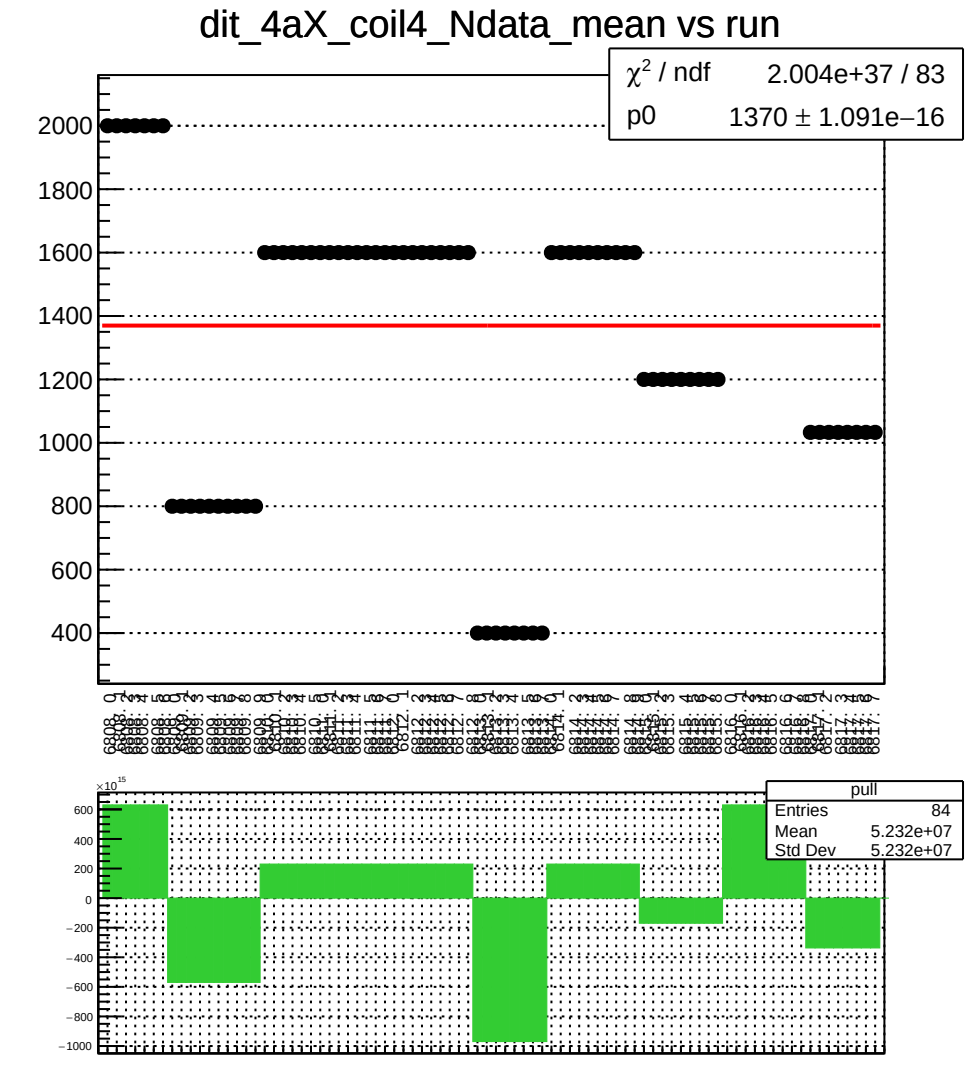

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

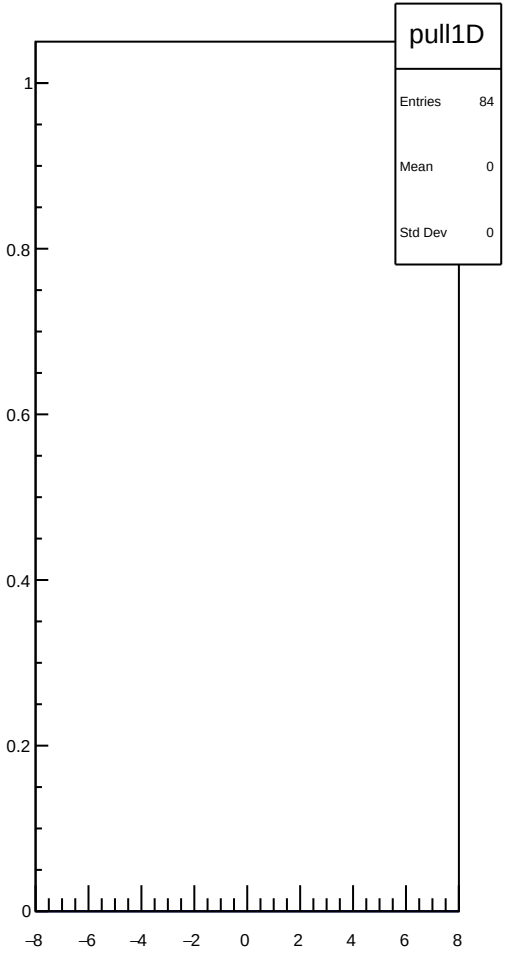

dit_sam8_coil7_Ndata_mean vs run
χ^2 / ndf 9.969e+36 / 83
p0 1489 ± 1.091e−16
2000
1800
1600
1400
1200
1000
pull
Entries 84
Mean −6.022e+09
Std Dev 6.022e+09
×10^15
400
200
0
−200
−400
−600

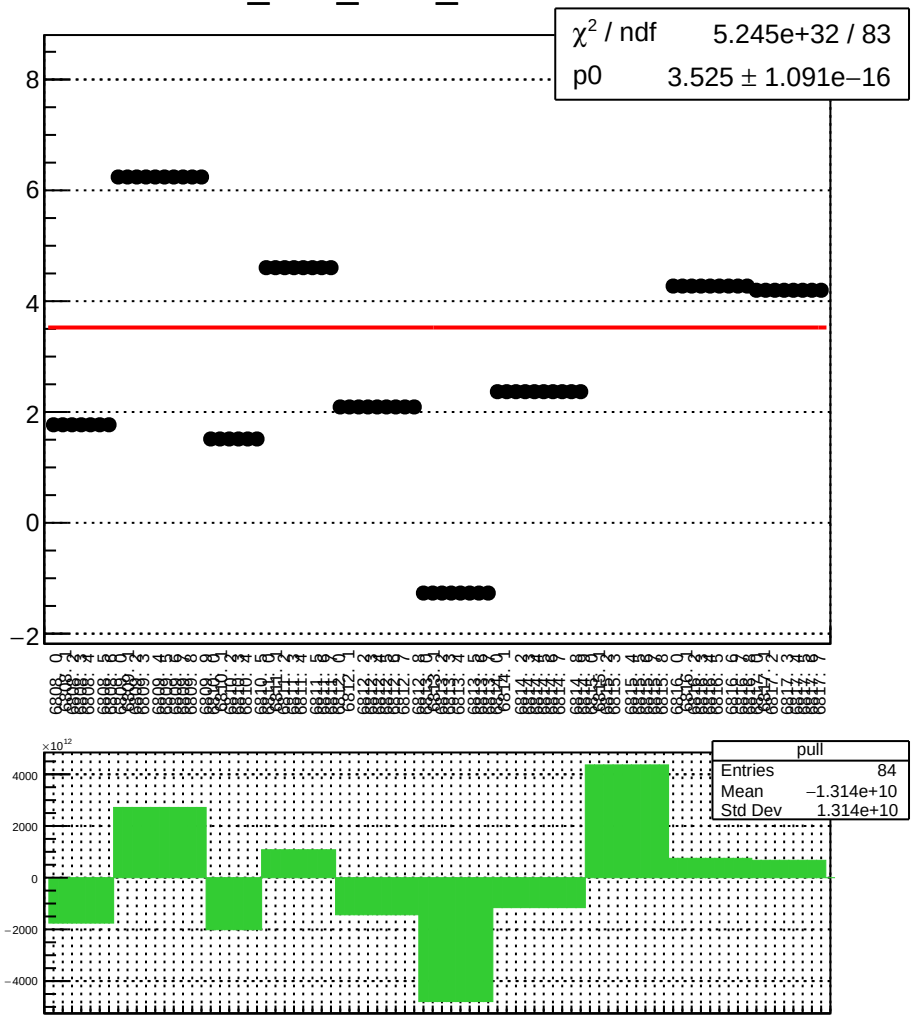

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

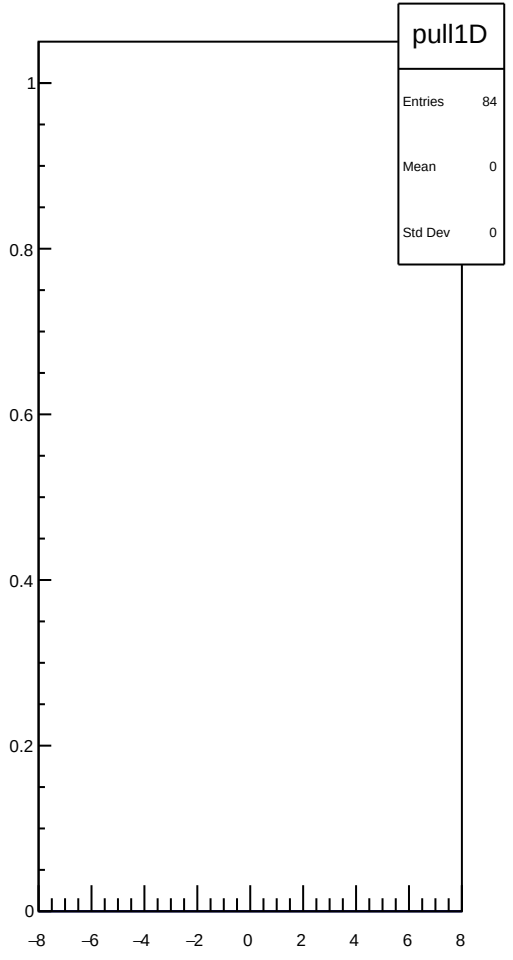

dit_4aX_coil4_mean vs run
χ² / ndf 4.796e+32 / 83
p0 –1.148 ± 1.091e–16
pull
Entries 84
Mean 6.951e+09
Std Dev 6.951e+09
pull1D
Entries 84
Mean 0
Std Dev 0

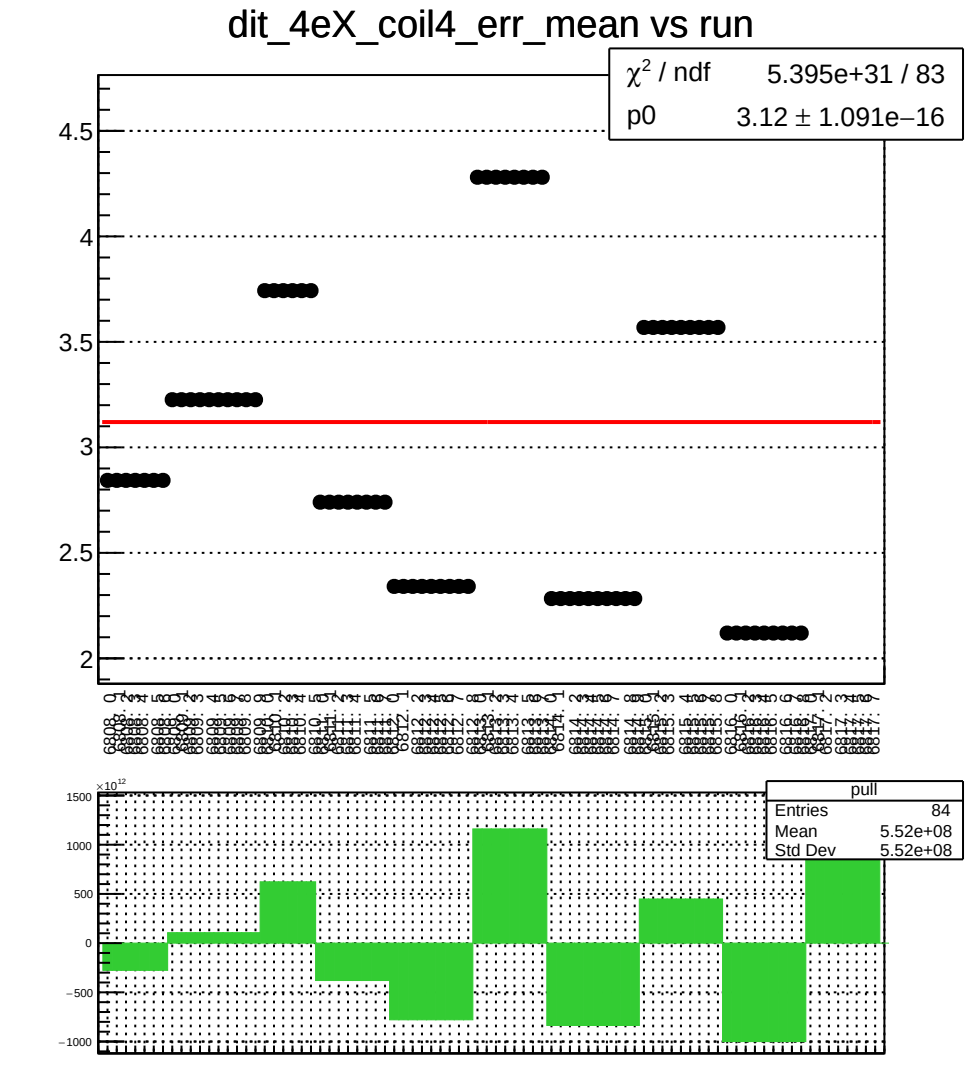

dit_4aX_coil4_err_mean vs run
χ² / ndf 6.777e+31 / 83
p0 2.981± 1.091e−16
pull
Entries 84
Mean 0
Std Dev 0
pull1D
Entries 84
Mean 0
Std Dev 0

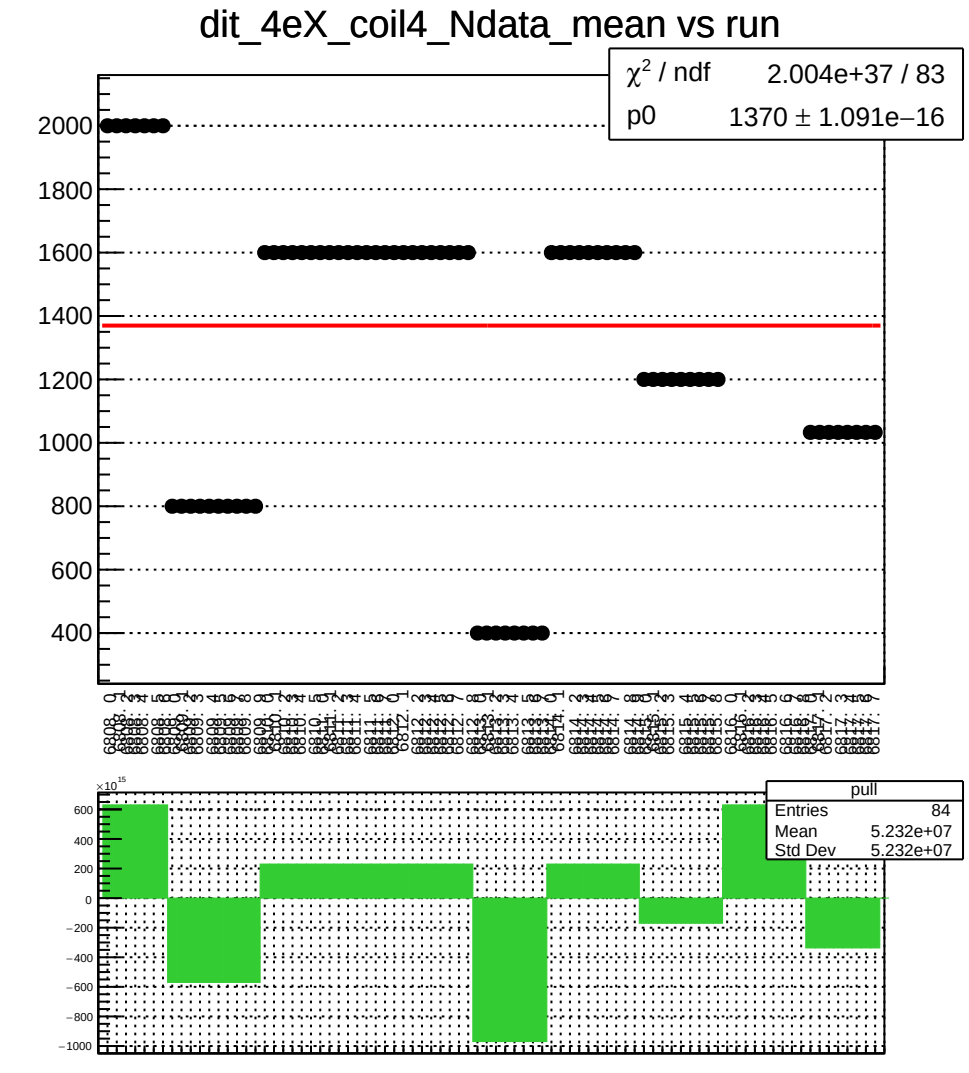

dit_4aX_coil4_Ndata_mean vs run
χ² / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

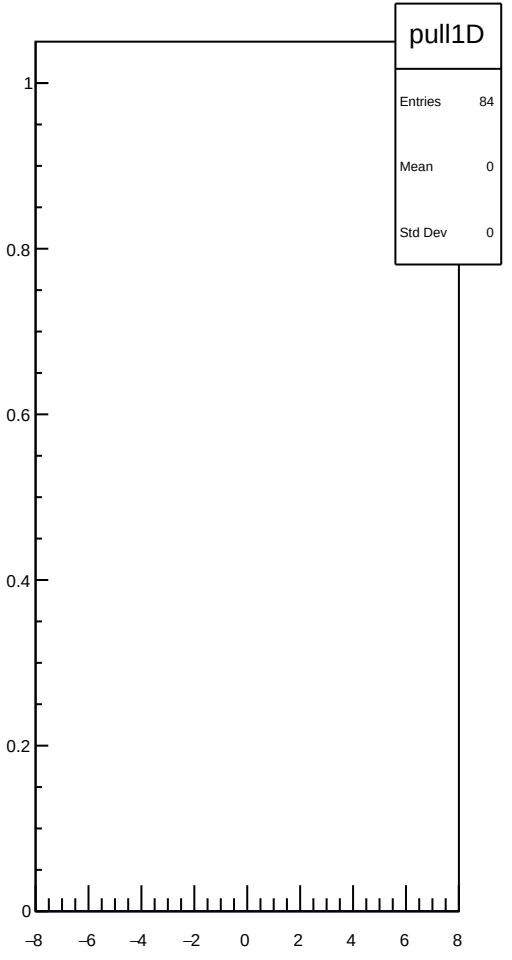

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

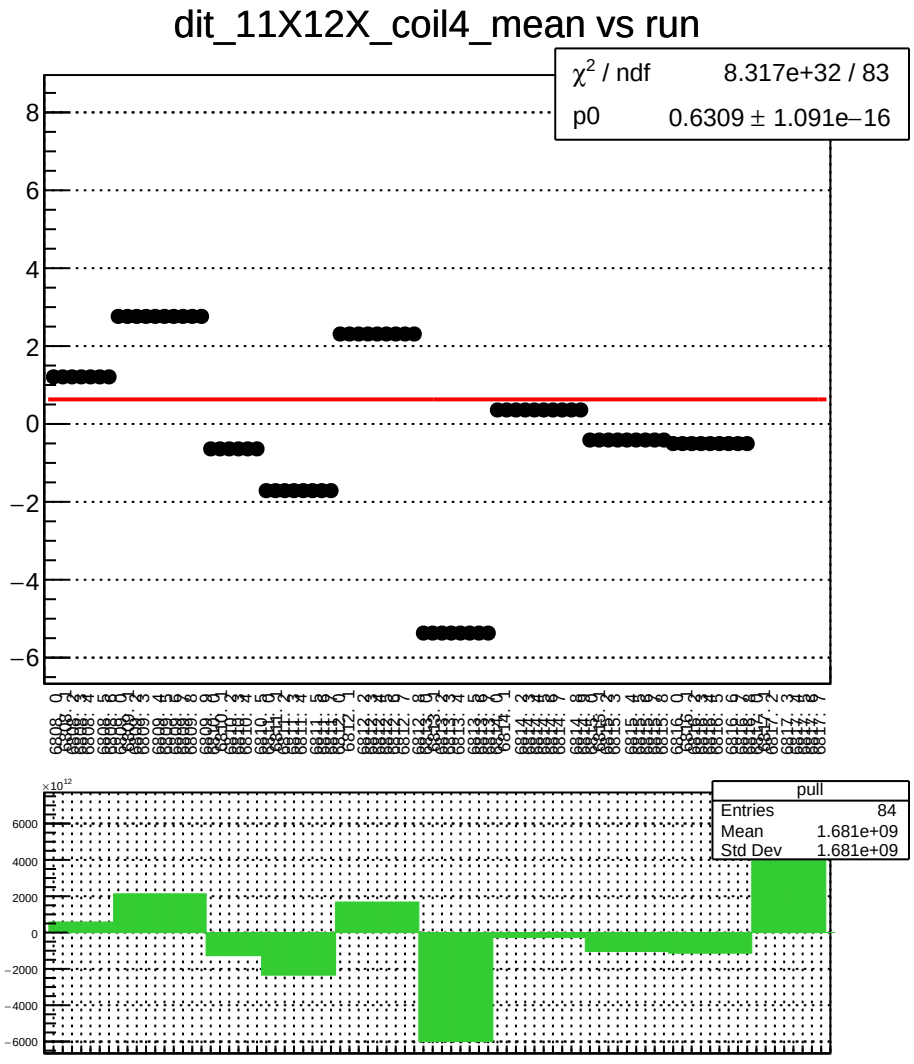

dit_4eX_coil4_mean vs run
χ² / ndf 5.245e+32 / 83
p0 3.525 ± 1.091e−16
pull
Entries 84
Mean −1.314e+10
Std Dev 1.314e+10

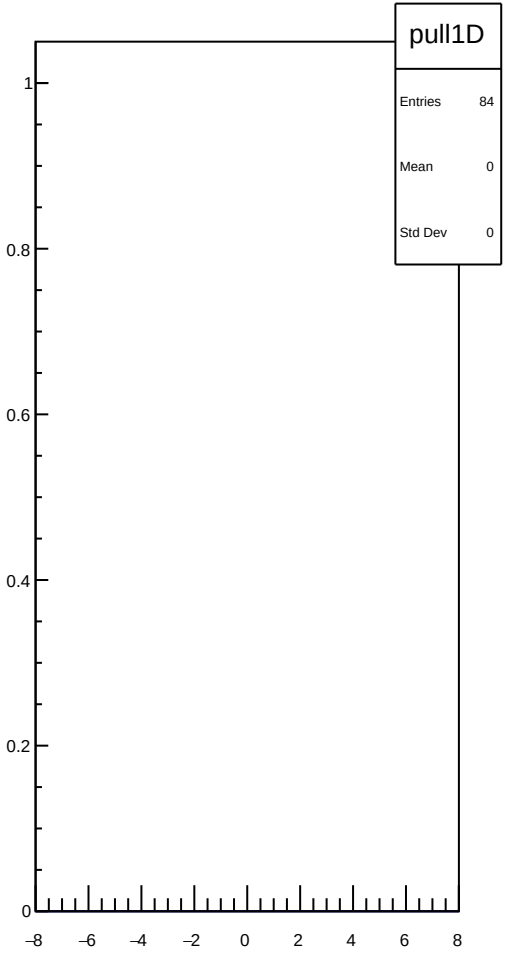

pull1D
Entries 84
Mean 0
Std Dev 0

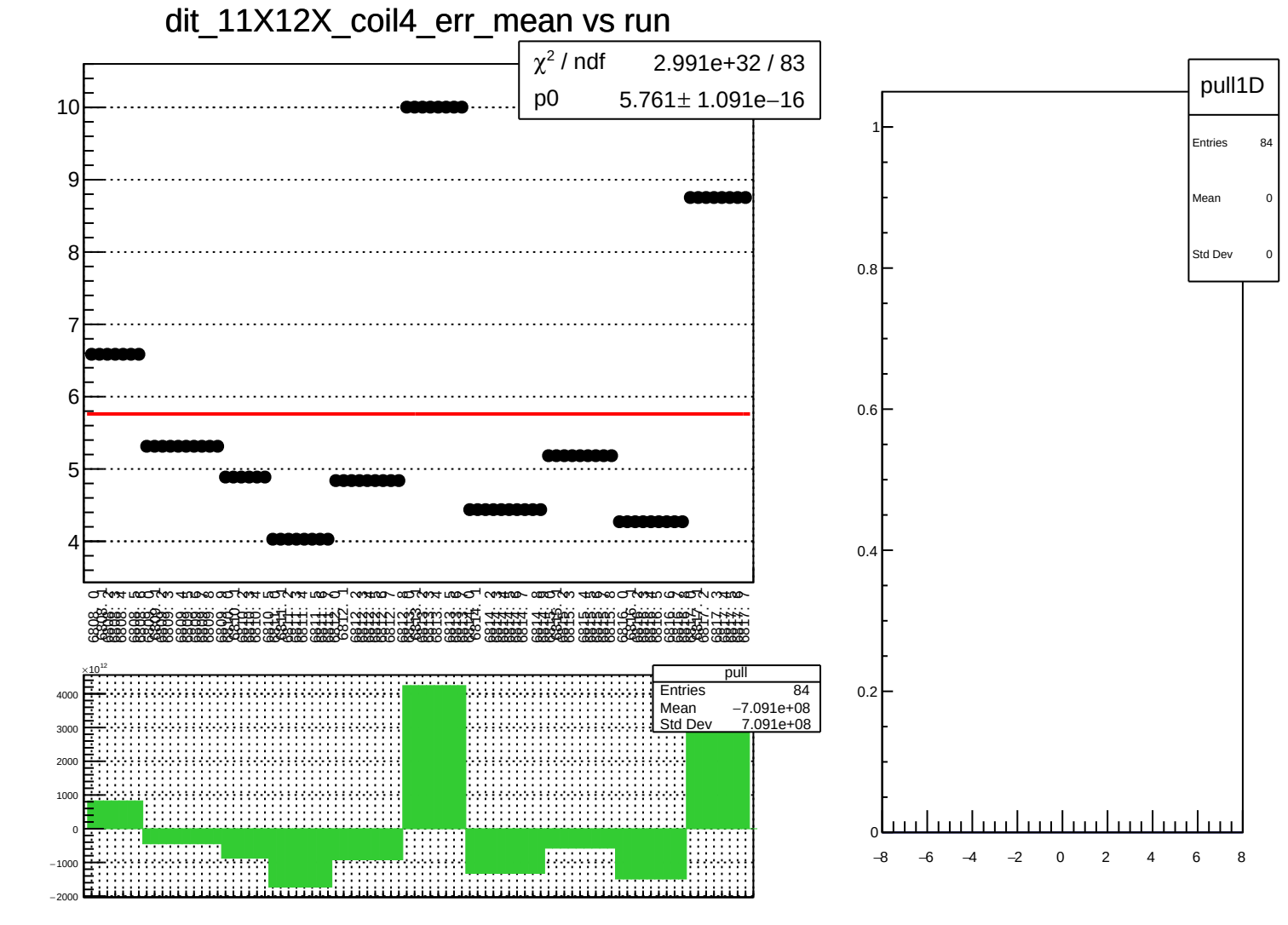

dit_4eX_coil4_err_mean vs run
χ² / ndf 5.395e+31 / 83
p0 3.12 ± 1.091e−16
pull
Entries 84
Mean 5.52e+08
Std Dev 5.52e+08
pull1D
Entries 84
Mean 0
Std Dev 0

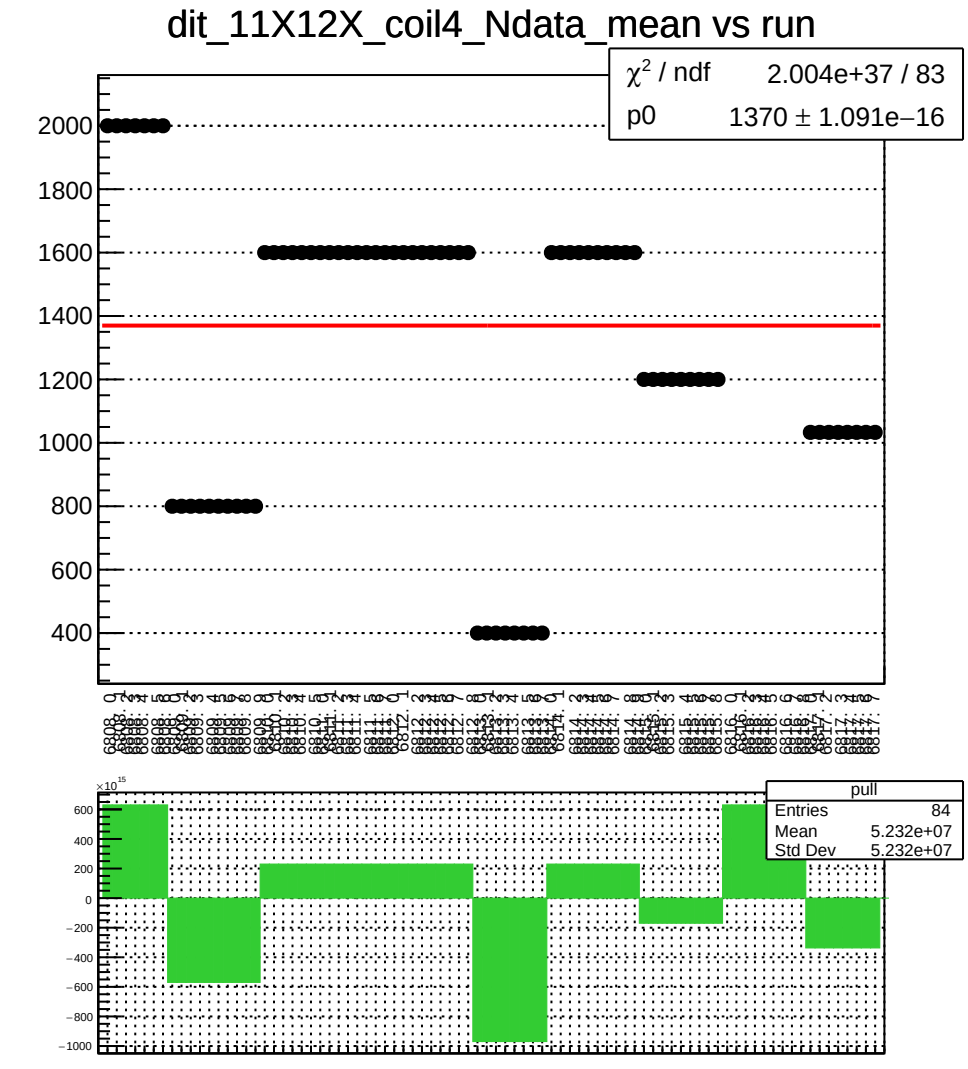

dit_4eX_coil4_Ndata_mean vs run
χ² / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

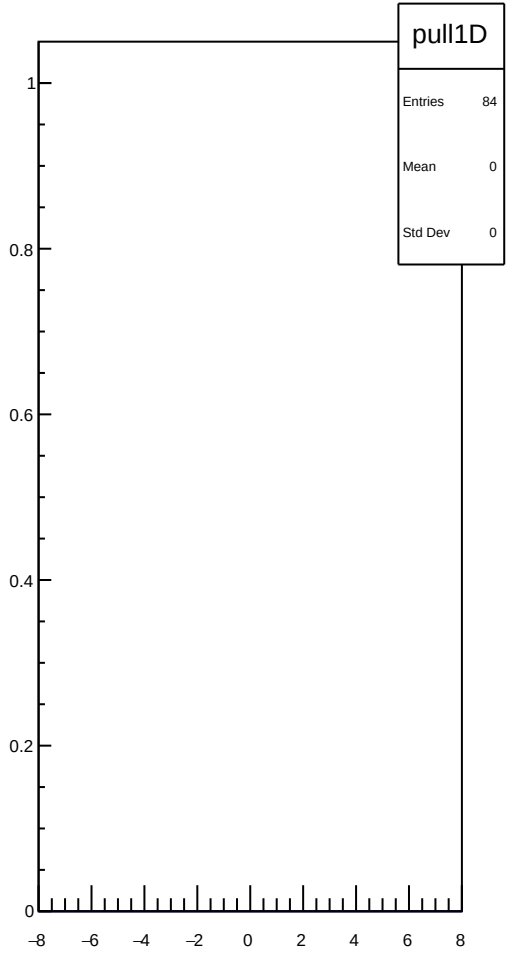

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

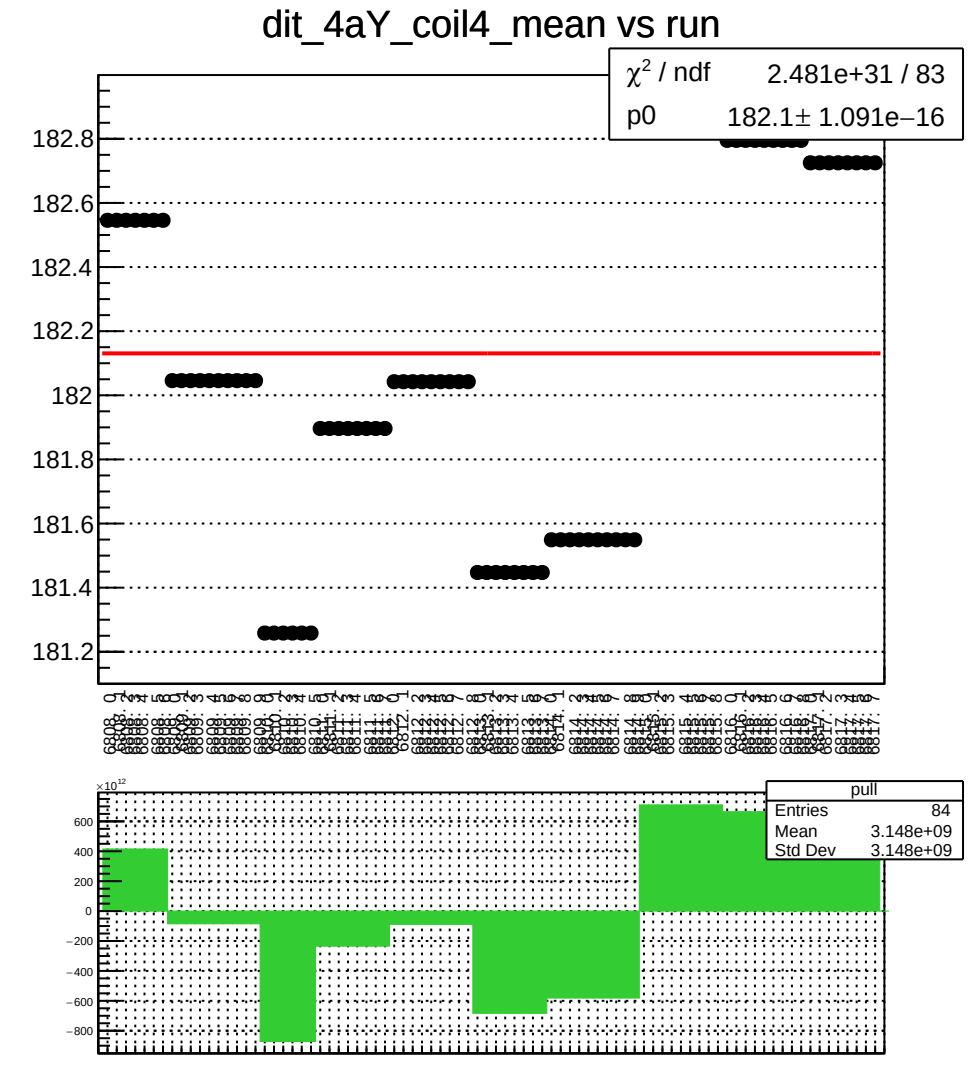

dit_11X12X_coil4_mean vs run
χ² / ndf 8.317e+32 / 83
p0 0.6309 ± 1.091e−16
pull
Entries 84
Mean 1.681e+09
Std Dev 1.681e+09

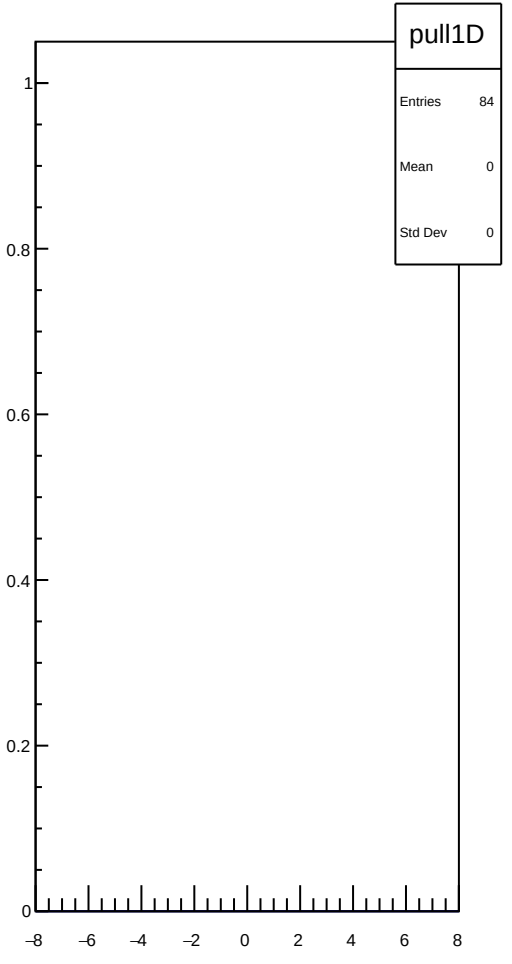

pull1D
Entries 84
Mean 0
Std Dev 0

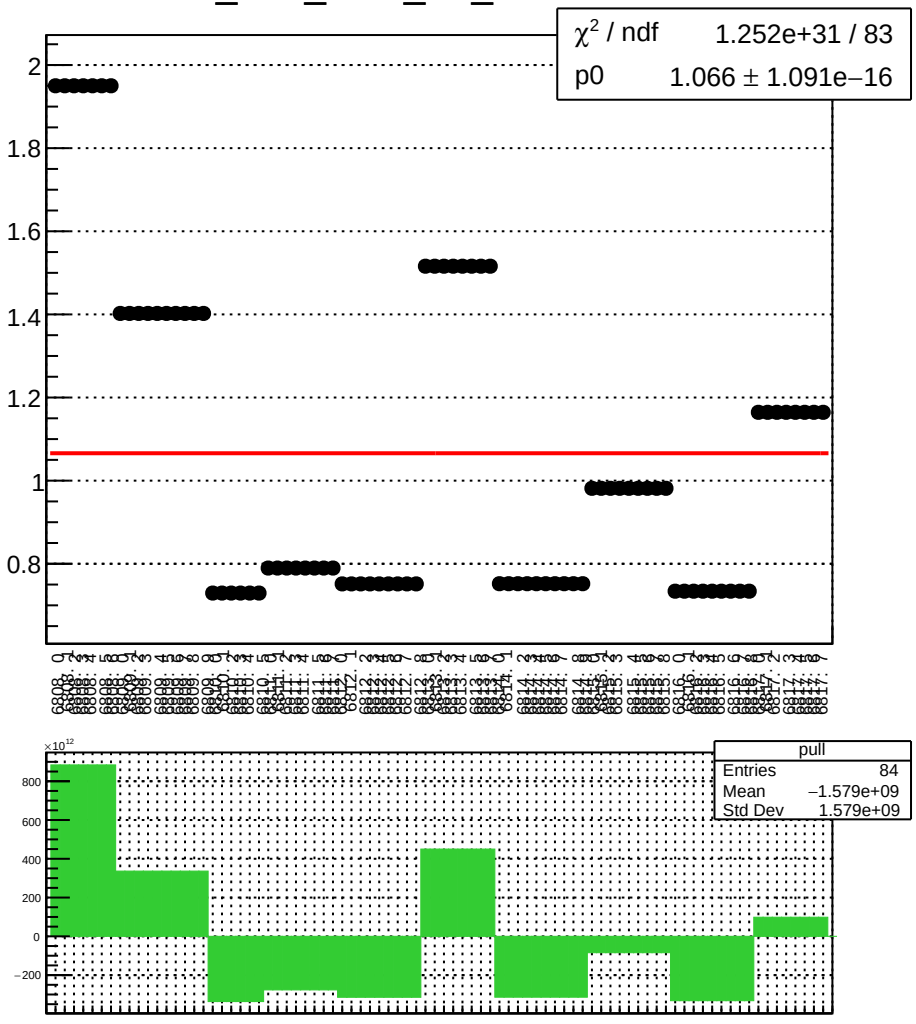

dit_11X12X_coil4_err_mean vs run
χ² / ndf 2.991e+32 / 83
p0 5.761± 1.091e−16
pull
Entries 84
Mean −7.091e+08
Std Dev 7.091e+08
pull1D
Entries 84
Mean 0
Std Dev 0

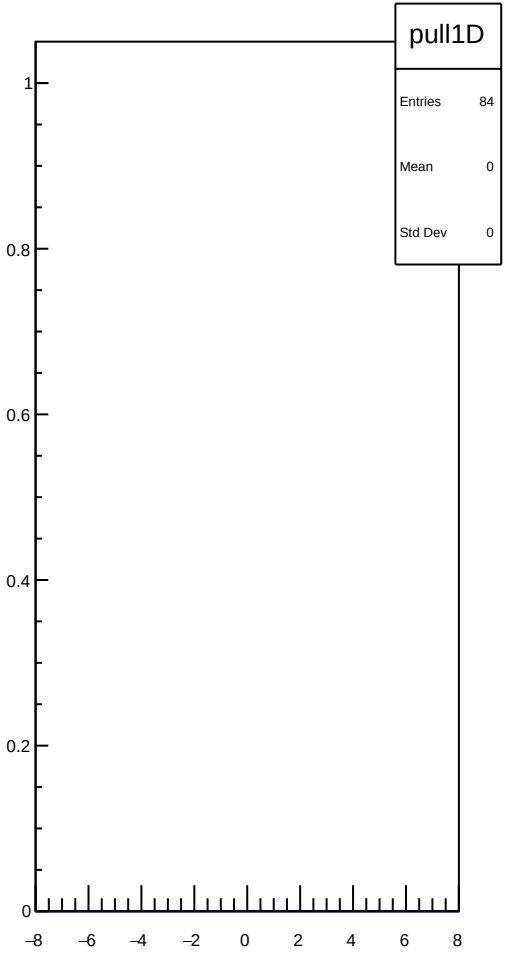

dit_11X12X_coil4_Ndata_mean vs run
χ² / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07

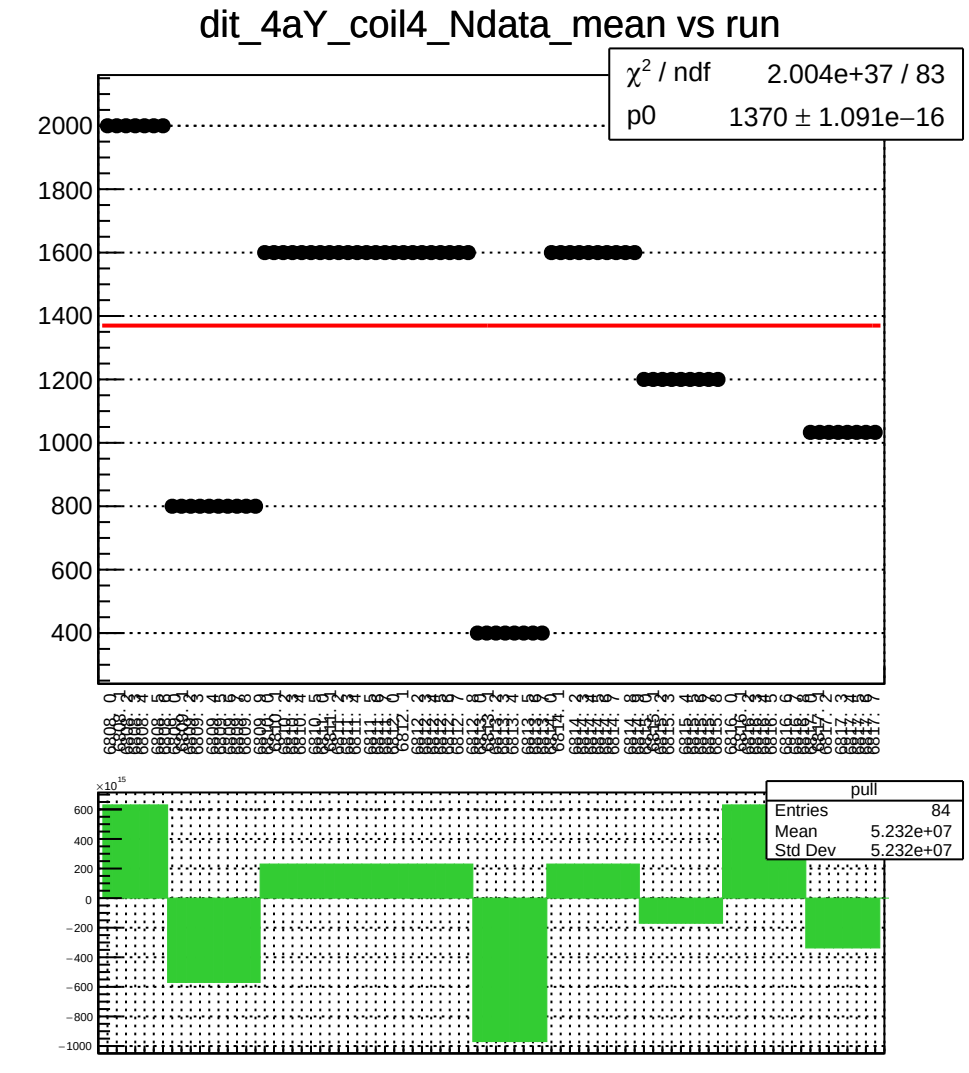

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

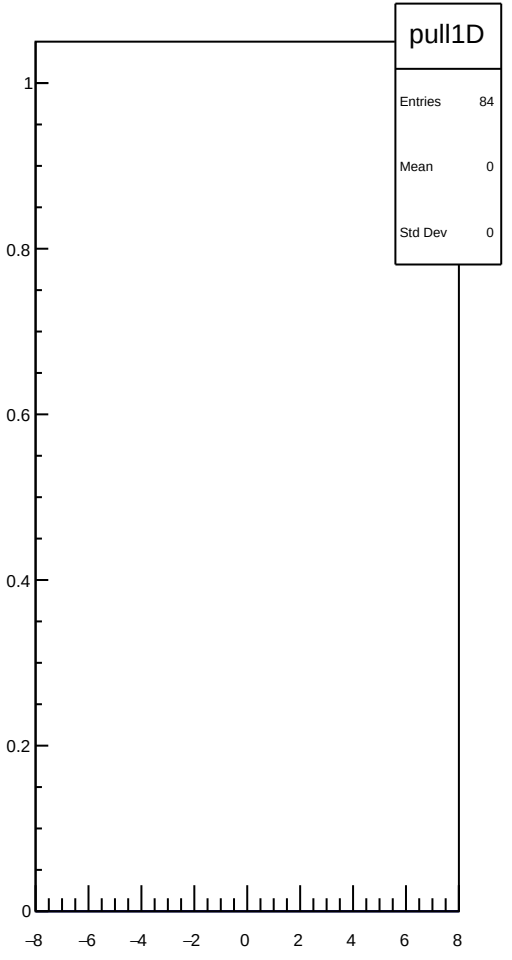

dit_4aY_coil4_mean vs run
χ² / ndf 2.481e+31 / 83
p0 182.1± 1.091e−16
182.8
182.6
182.4
182.2
182
181.8
181.6
181.4
181.2
pull
Entries 84
Mean 3.148e+09
Std Dev 3.148e+09
×10¹²
600
400
200
0
−200
−400
−600
−800

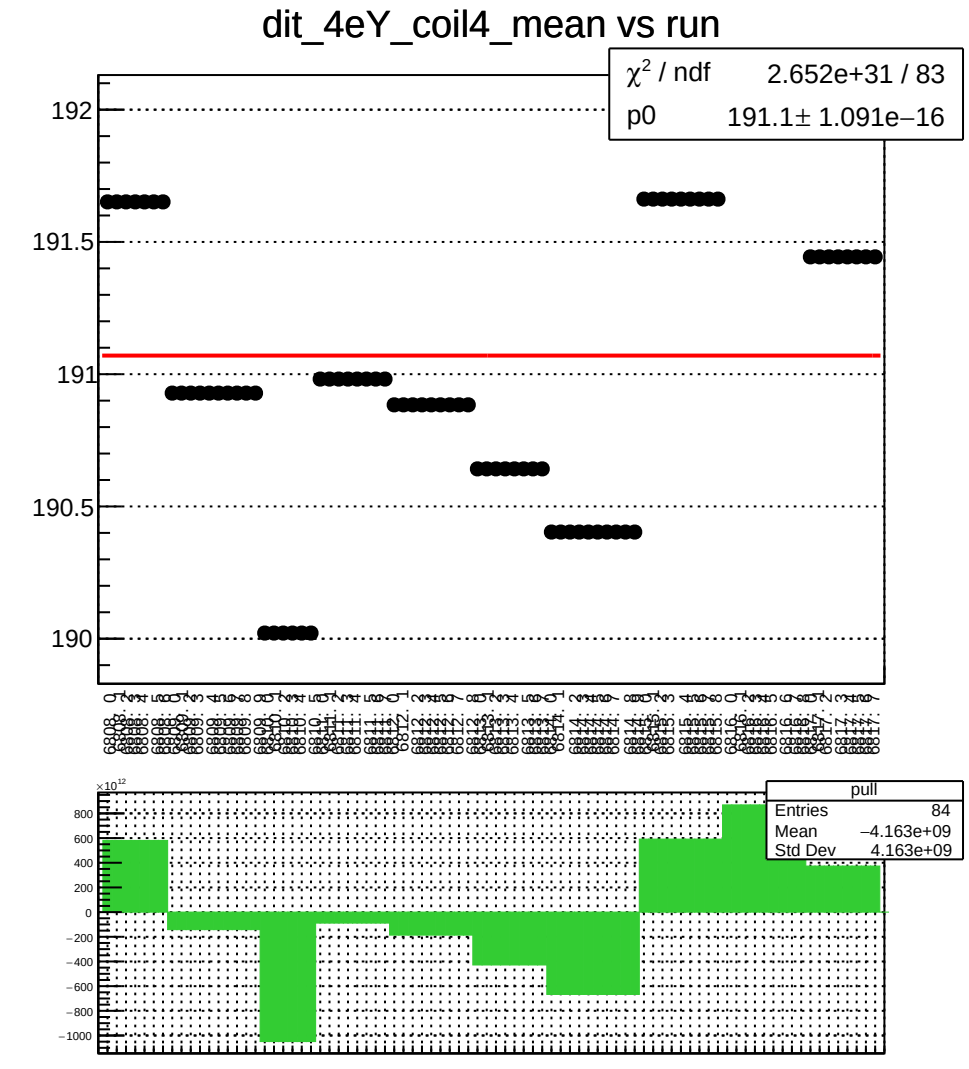

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

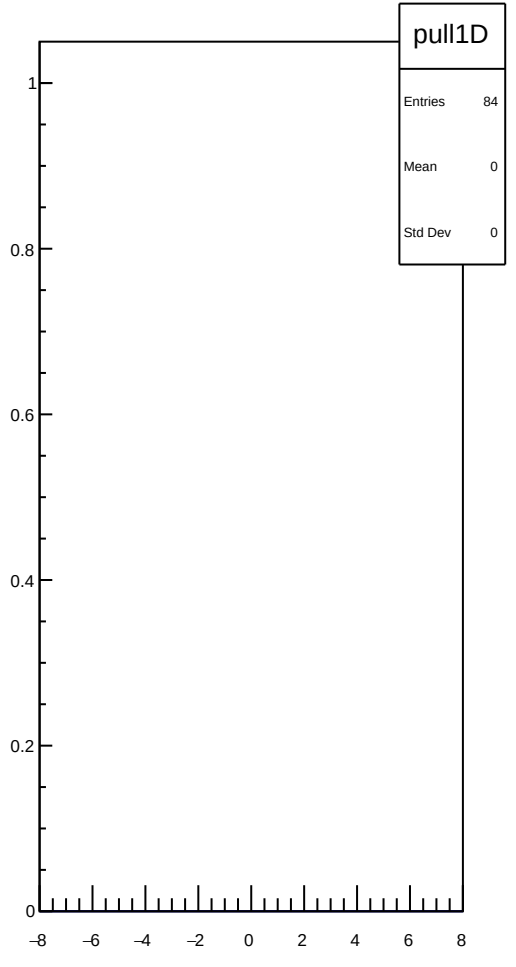

dit_4aY_coil4_err_mean vs run
χ² / ndf 1.252e+31 / 83
p0 1.066 ± 1.091e−16
pull
Entries 84
Mean −1.579e+09
Std Dev 1.579e+09

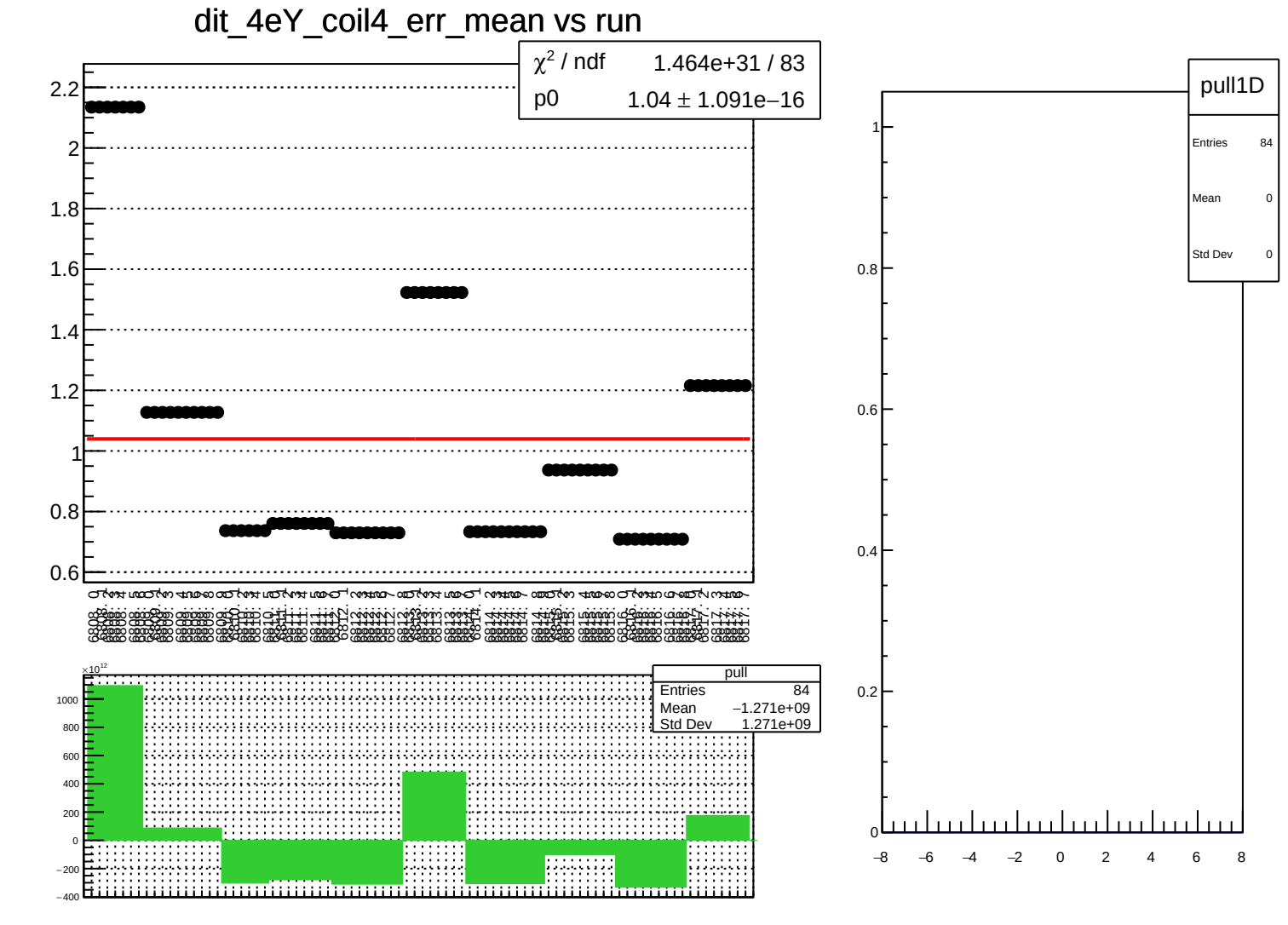

pull1D
Entries 84
Mean 0
Std Dev 0

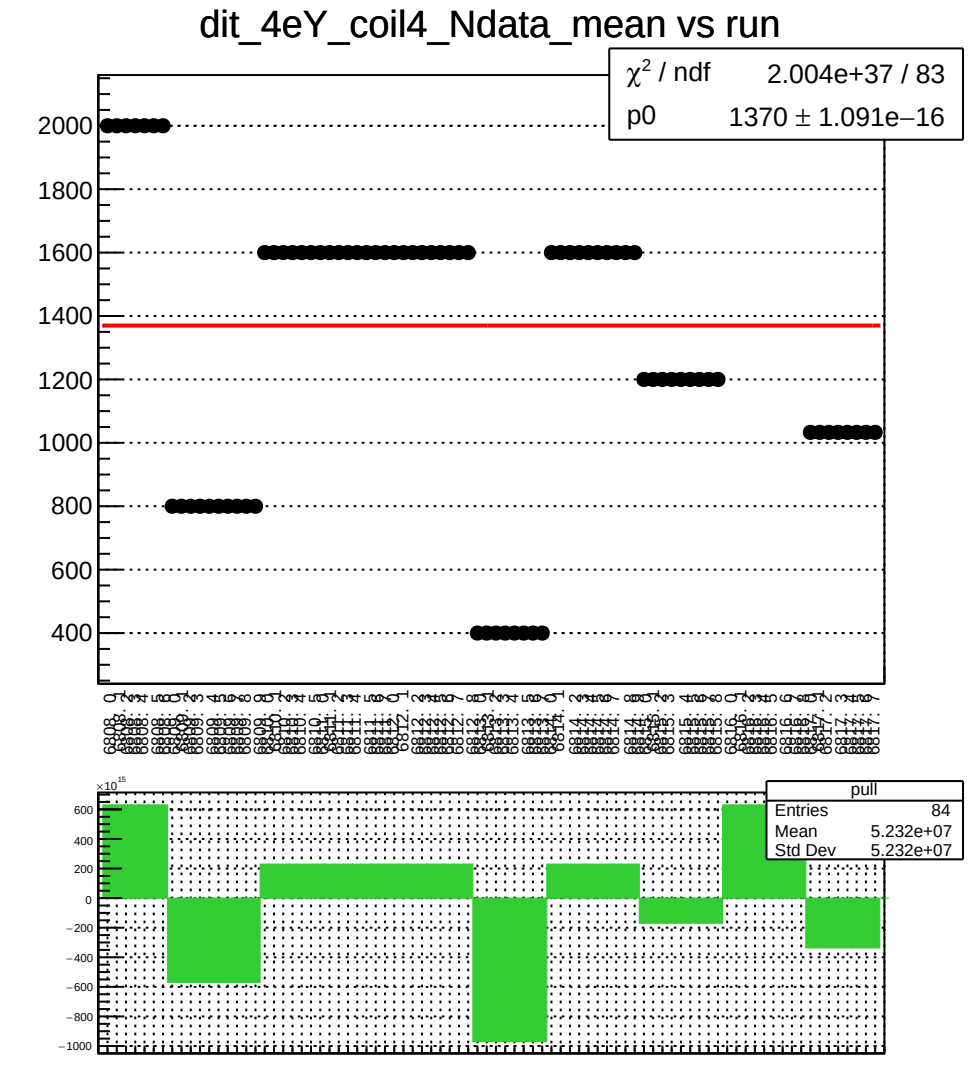

dit_4aY_coil4_Ndata_mean vs run
χ² / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07

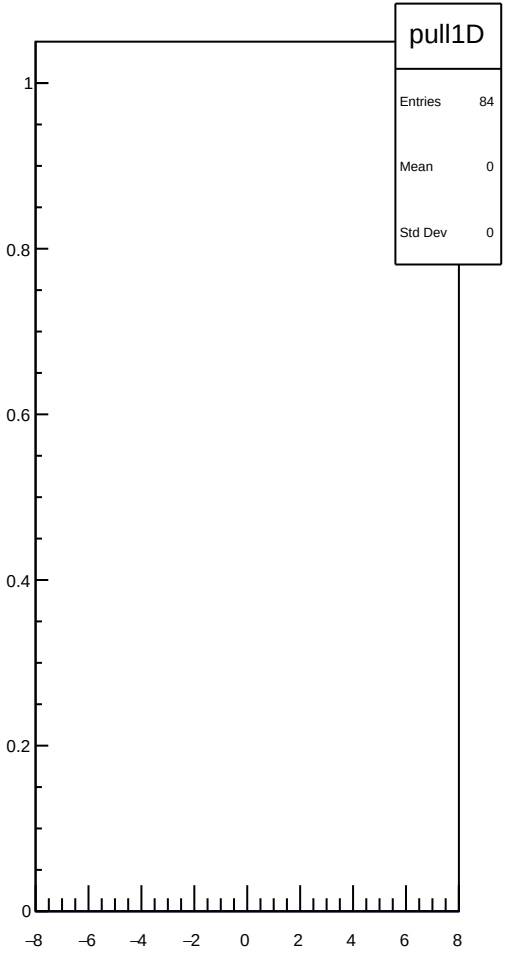

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

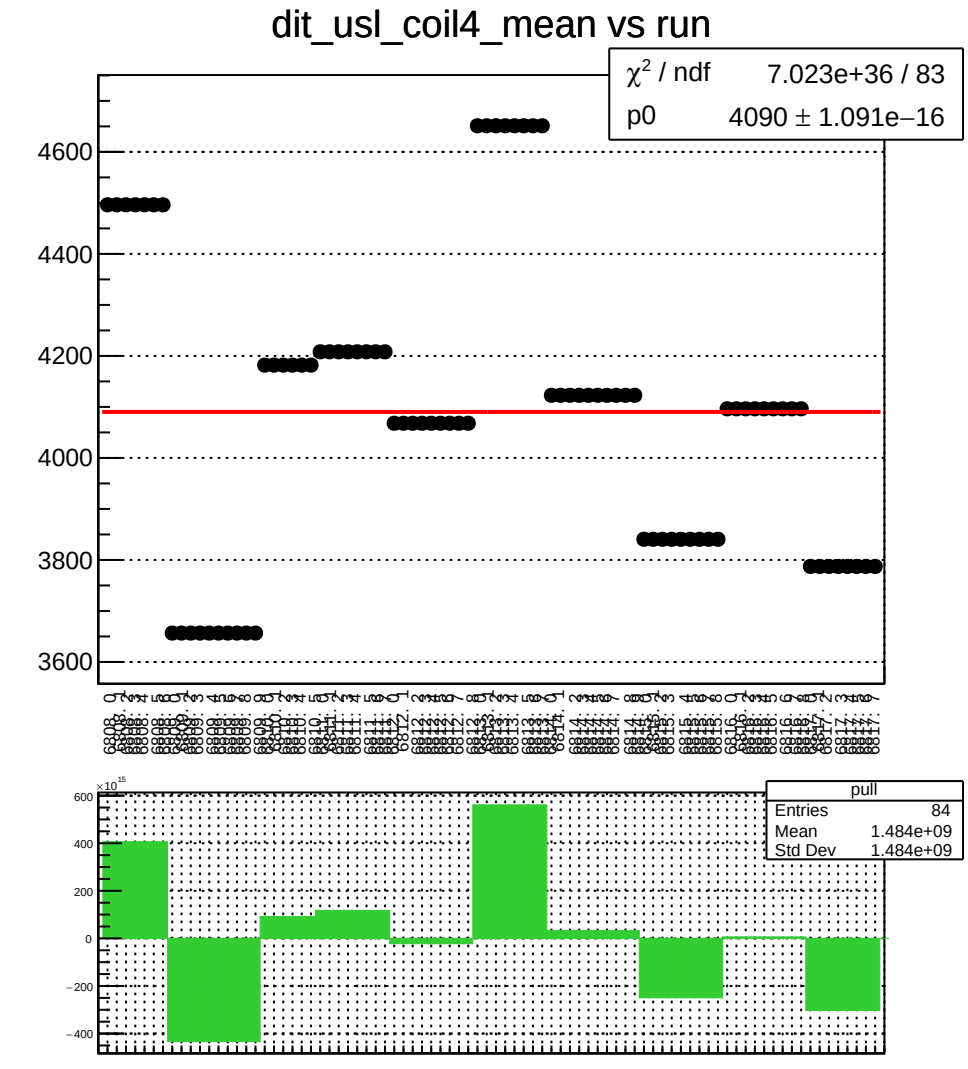

dit_4eY_coil4_mean vs run
χ² / ndf 2.652e+31 / 83
p0 191.1± 1.091e−16
192
191.5
191
190.5
190
pull
Entries 84
Mean −4.163e+09
Std Dev 4.163e+09
×10¹²
800
600
400
200
0
−200
−400
−600
−800
−1000

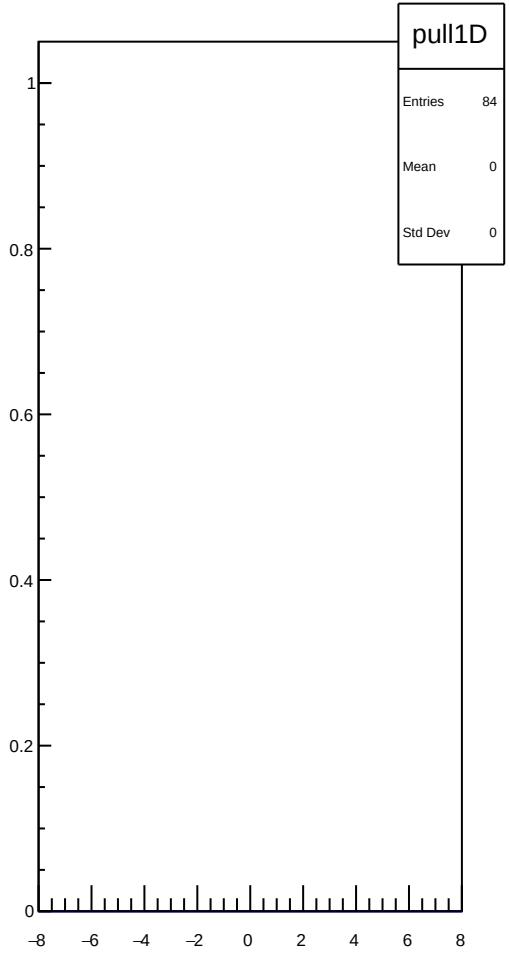

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

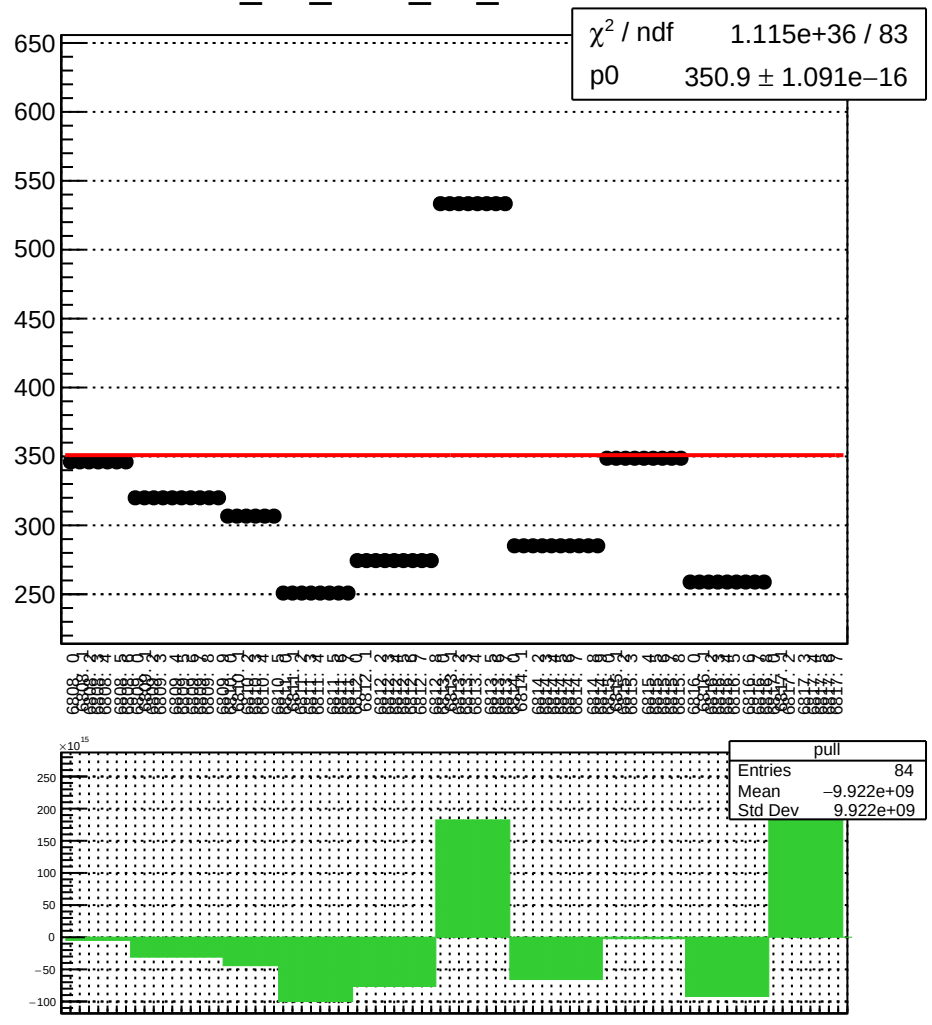

dit_4eY_coil4_err_mean vs run
χ² / ndf 1.464e+31 / 83
p0 1.04 ± 1.091e−16
pull
Entries 84
Mean −1.271e+09
Std Dev 1.271e+09
pull1D
Entries 84
Mean 0
Std Dev 0

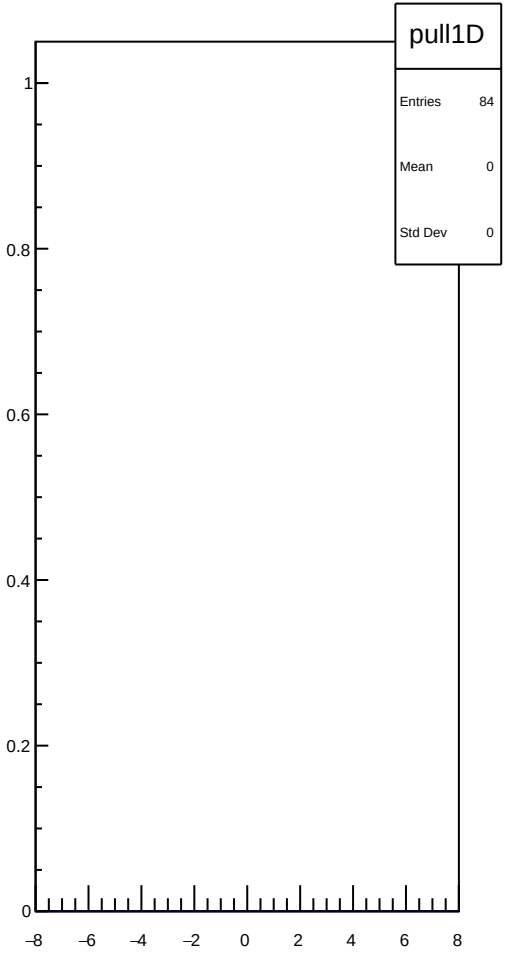

dit_4eY_coil4_Ndata_mean vs run
χ² / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

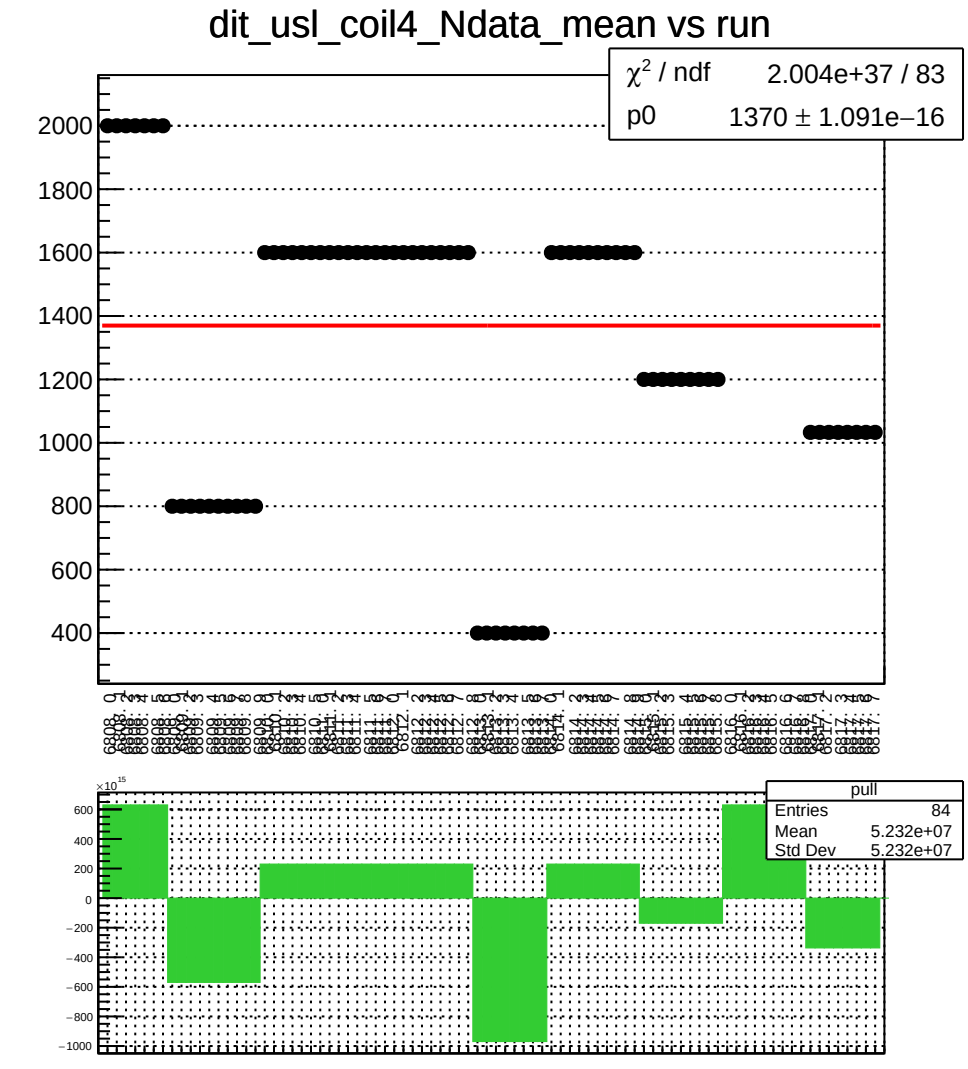

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

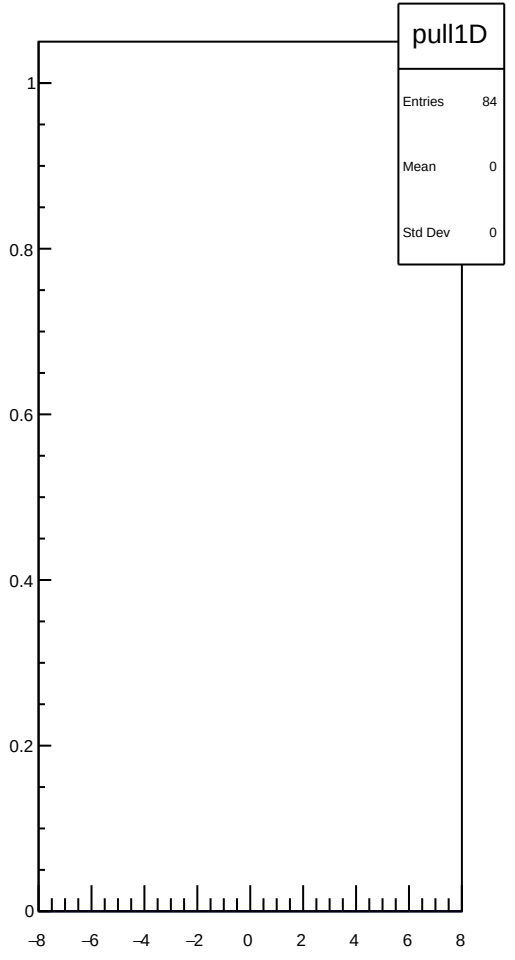

dit_usl_coil4_mean vs run
χ² / ndf 7.023e+36 / 83
p0 4090 ± 1.091e−16
4600
4400
4200
4000
3800
3600
×10¹⁵
600
400
200
0
−200
−400
pull
Entries 84
Mean 1.484e+09
Std Dev 1.484e+09

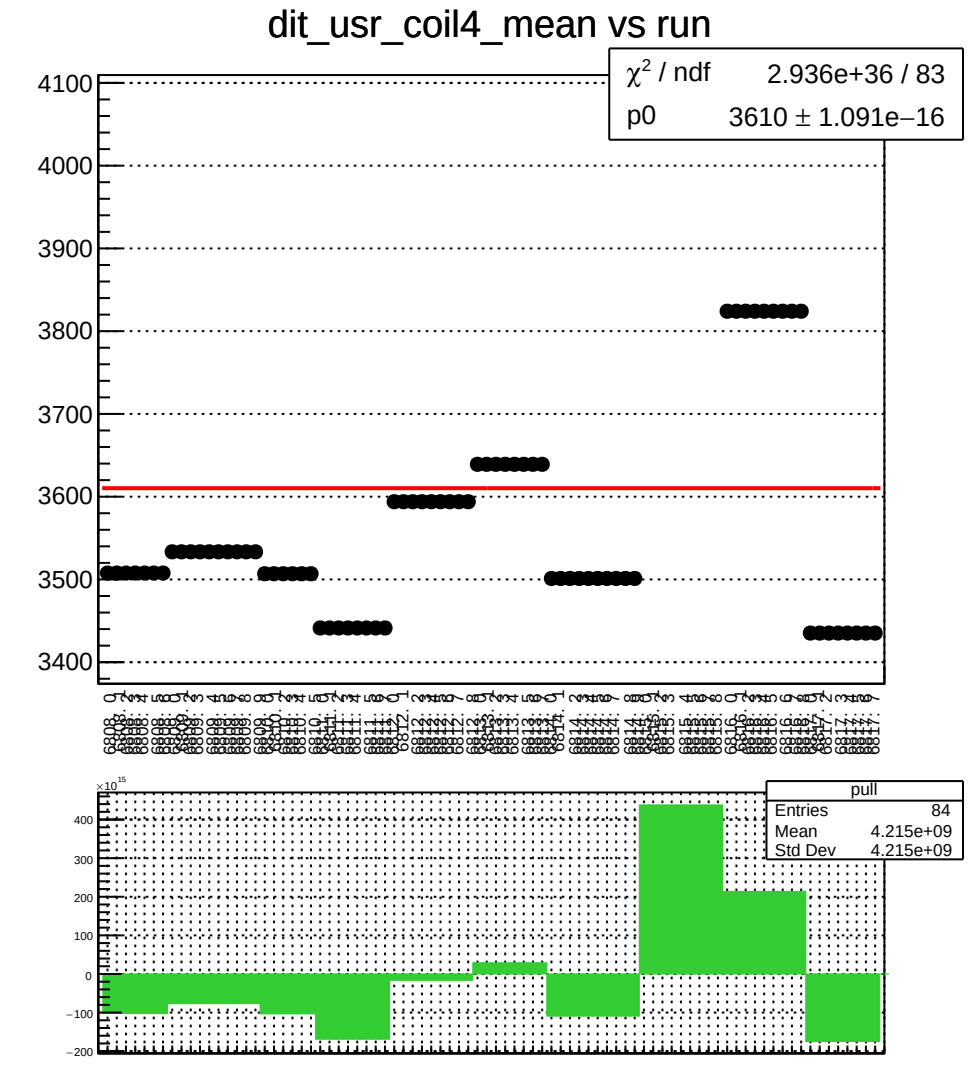

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

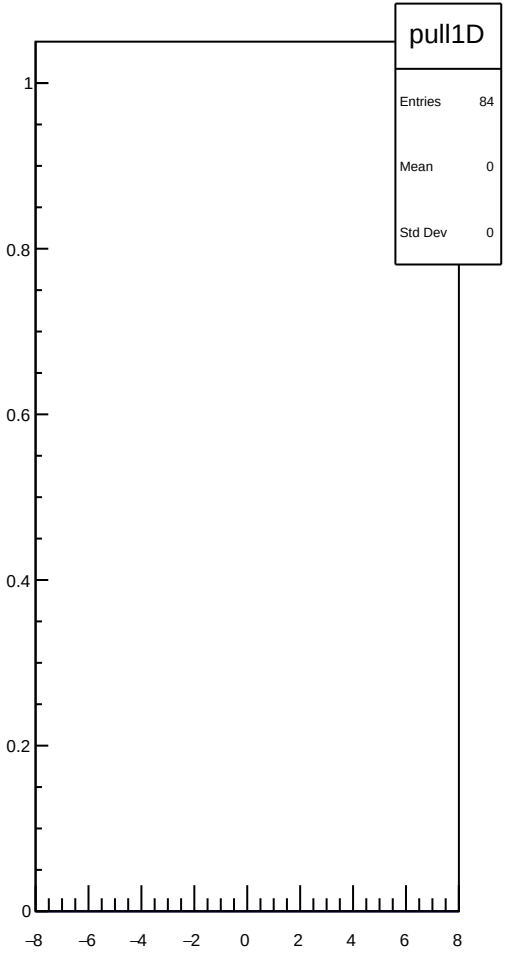

dit_usl_coil4_err_mean vs run
χ² / ndf 1.115e+36 / 83
p0 350.9 ± 1.091e−16
650
600
550
500
450
400
350
300
250
×10¹⁵
250
200
150
100
50
0
−50
−100
pull
Entries 84
Mean −9.922e+09
Std Dev 9.922e+09

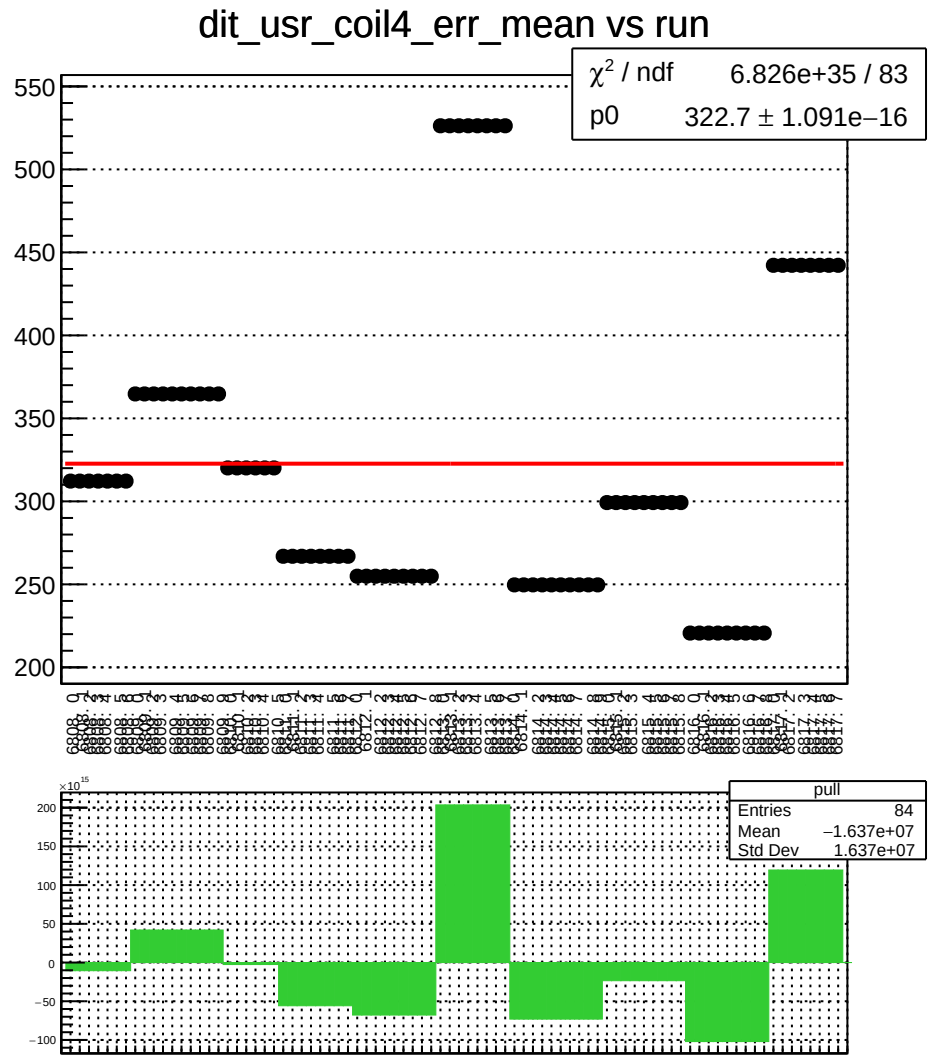

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

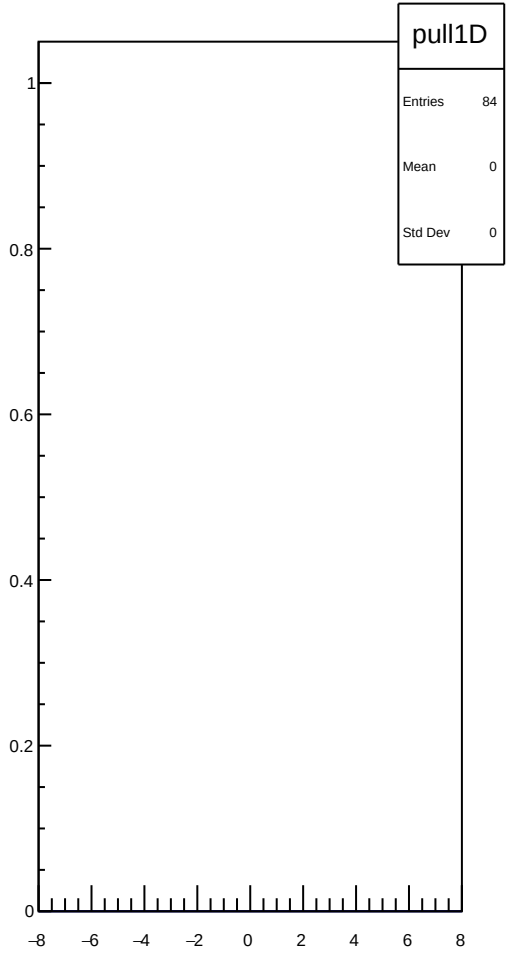

dit_usl_coil4_Ndata_mean vs run
χ² / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07

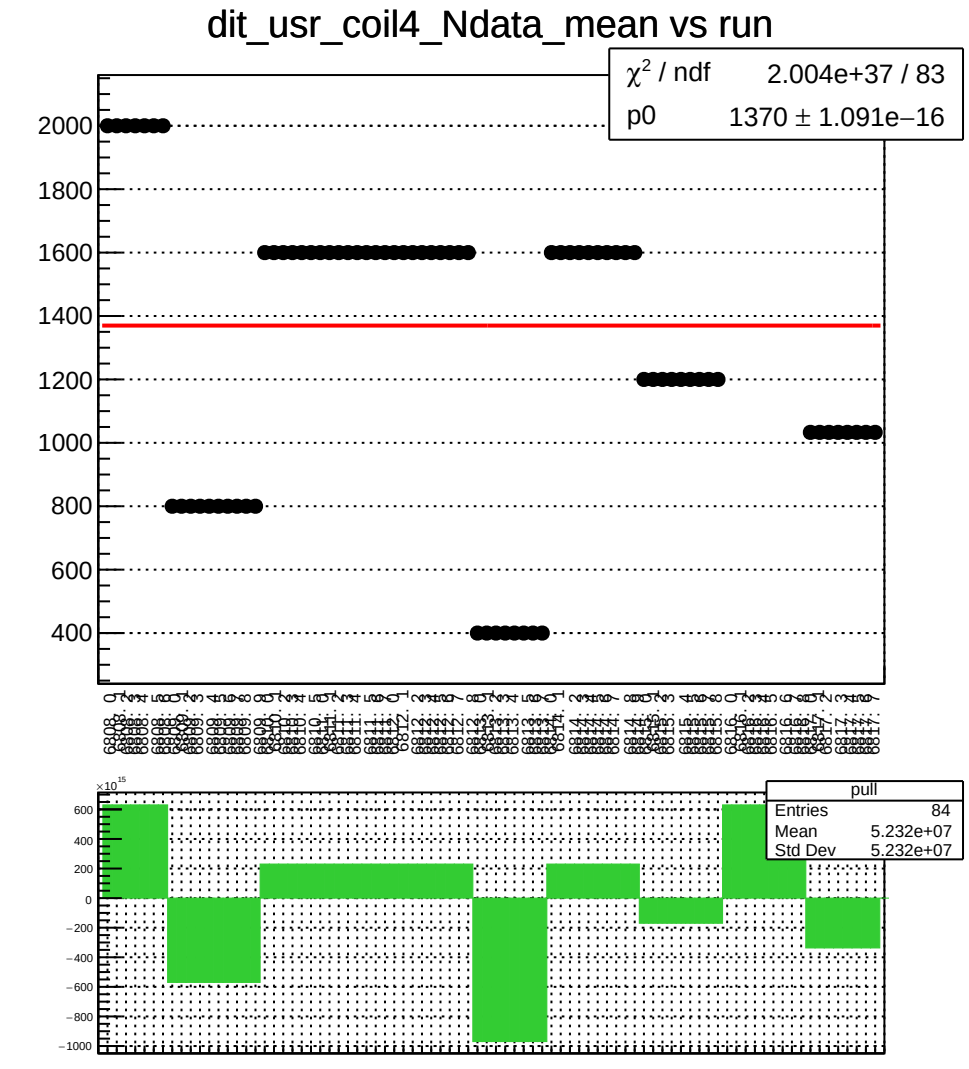

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

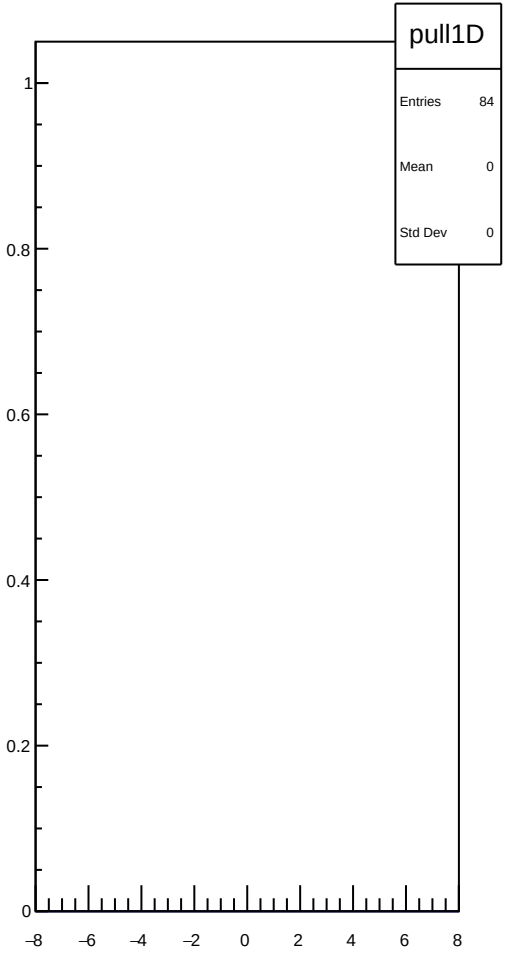

dit_usr_coil4_mean vs run
χ² / ndf 2.936e+36 / 83
p0 3610 ± 1.091e−16
4100
4000
3900
3800
3700
3600
3500
3400
pull
Entries 84
Mean 4.215e+09
Std Dev 4.215e+09
×10¹⁵
400
300
200
100
0
−100
−200

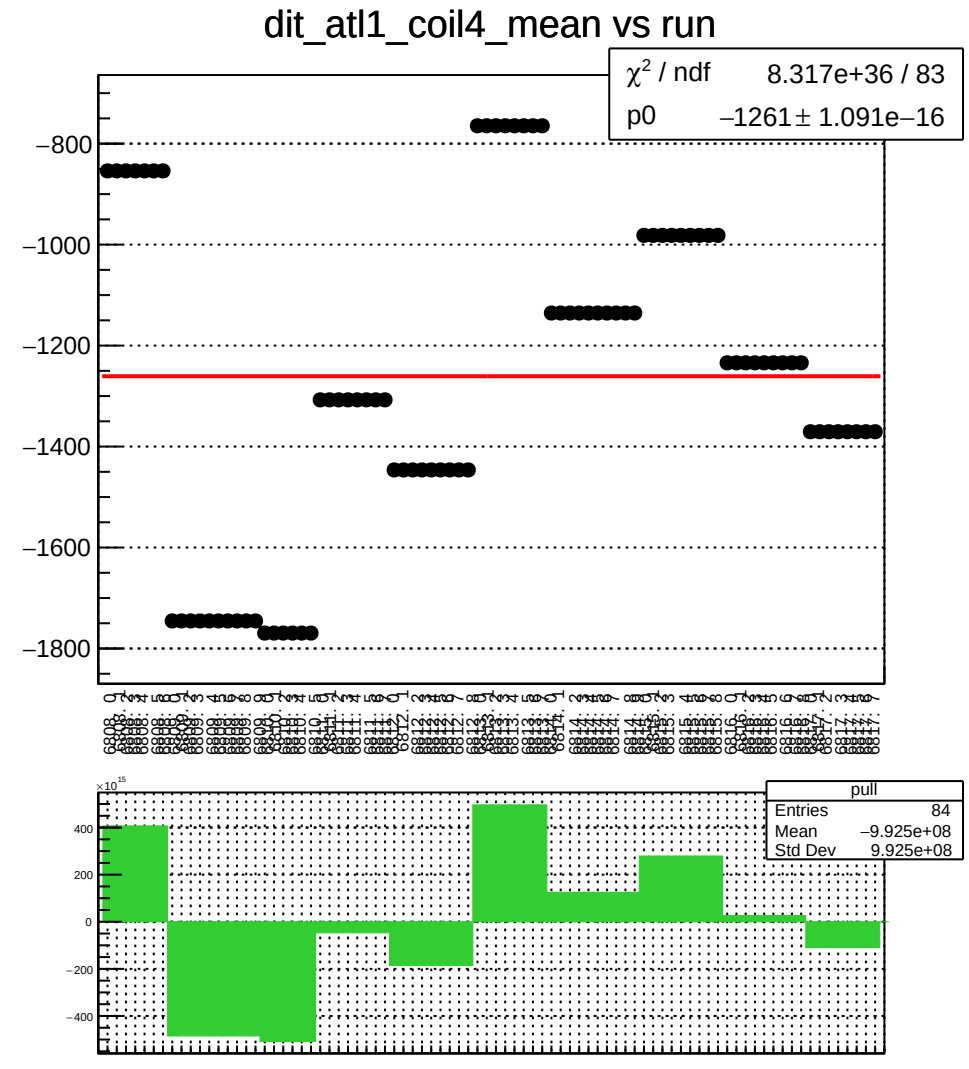

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

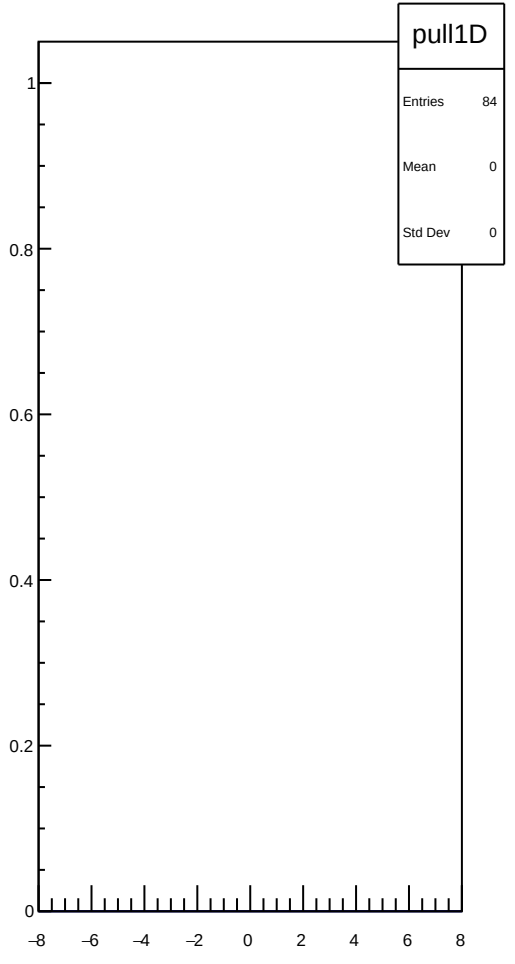

dit_usr_coil4_err_mean vs run
χ² / ndf 6.826e+35 / 83
p0 322.7 ± 1.091e−16
pull
Entries 84
Mean −1.637e+07
Std Dev 1.637e+07

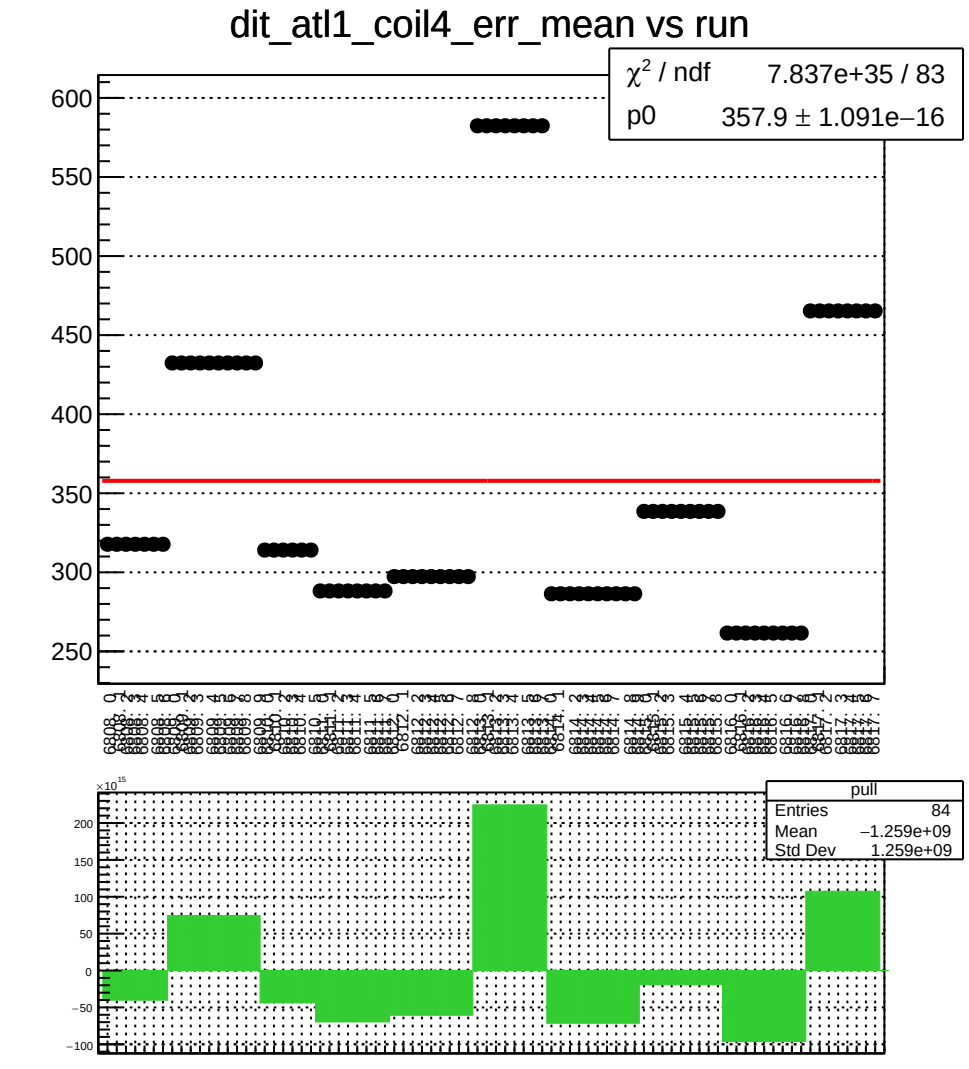

pull1D
Entries 84
Mean 0
Std Dev 0

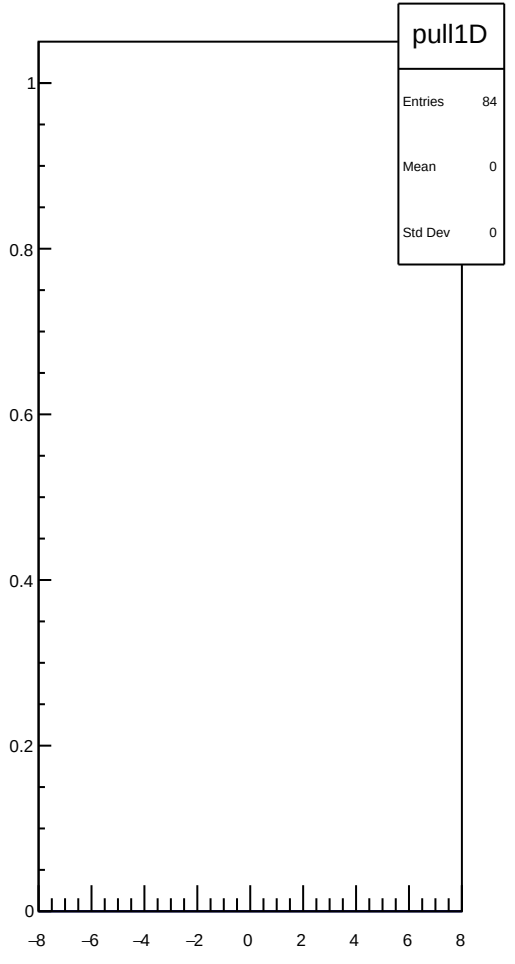

dit_usr_coil4_Ndata_mean vs run
χ² / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07

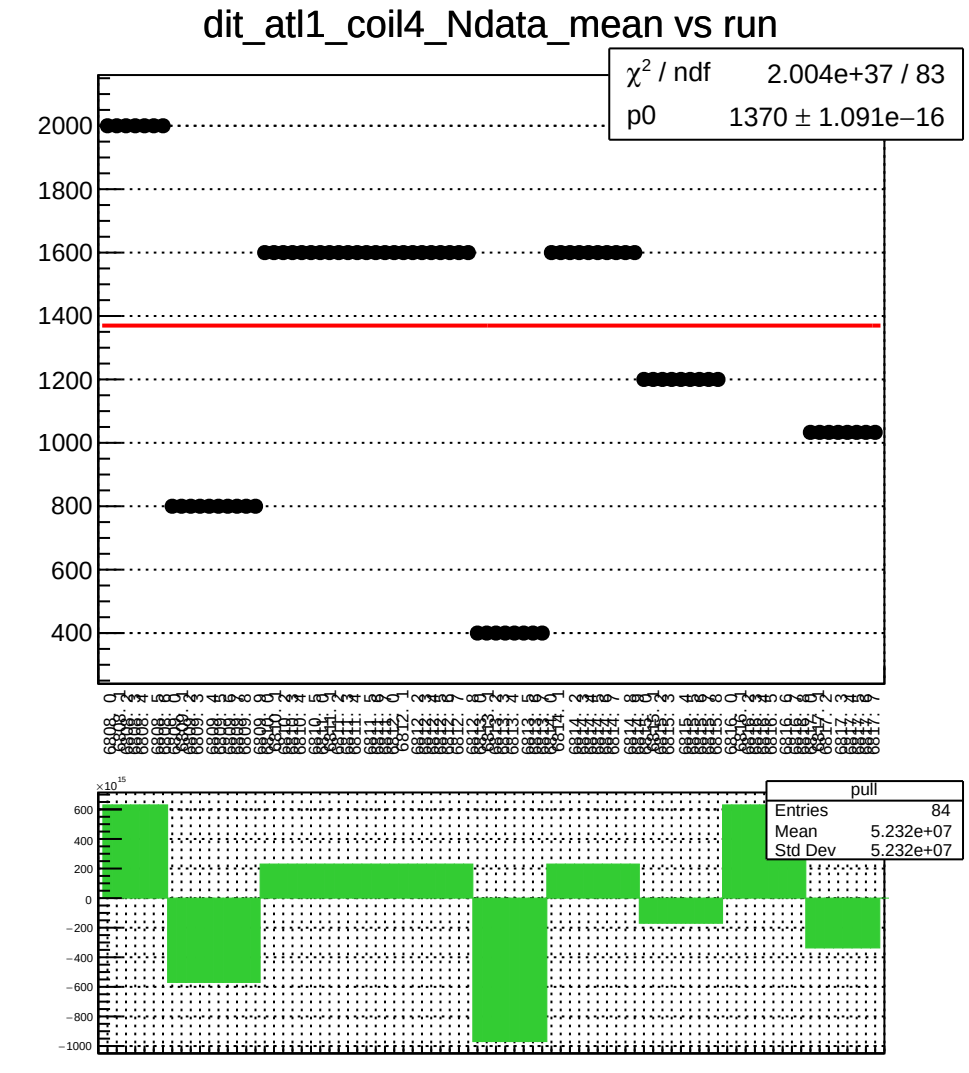

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

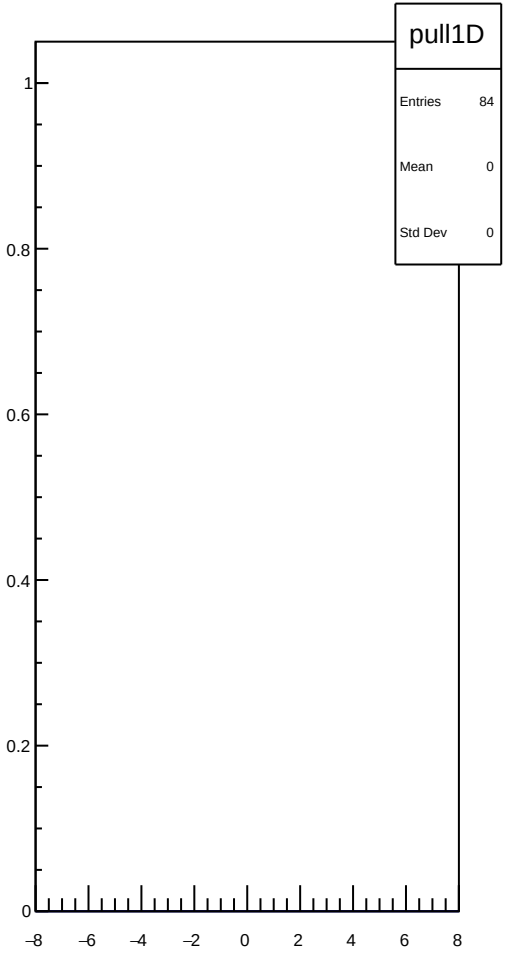

dit_atl1_coil4_mean vs run
χ² / ndf 8.317e+36 / 83
p0 −1261 ± 1.091e−16
−800
−1000
−1200
−1400
−1600
−1800
pull
Entries 84
Mean −9.925e+08
Std Dev 9.925e+08
×10¹⁵
400
200
0
−200
−400

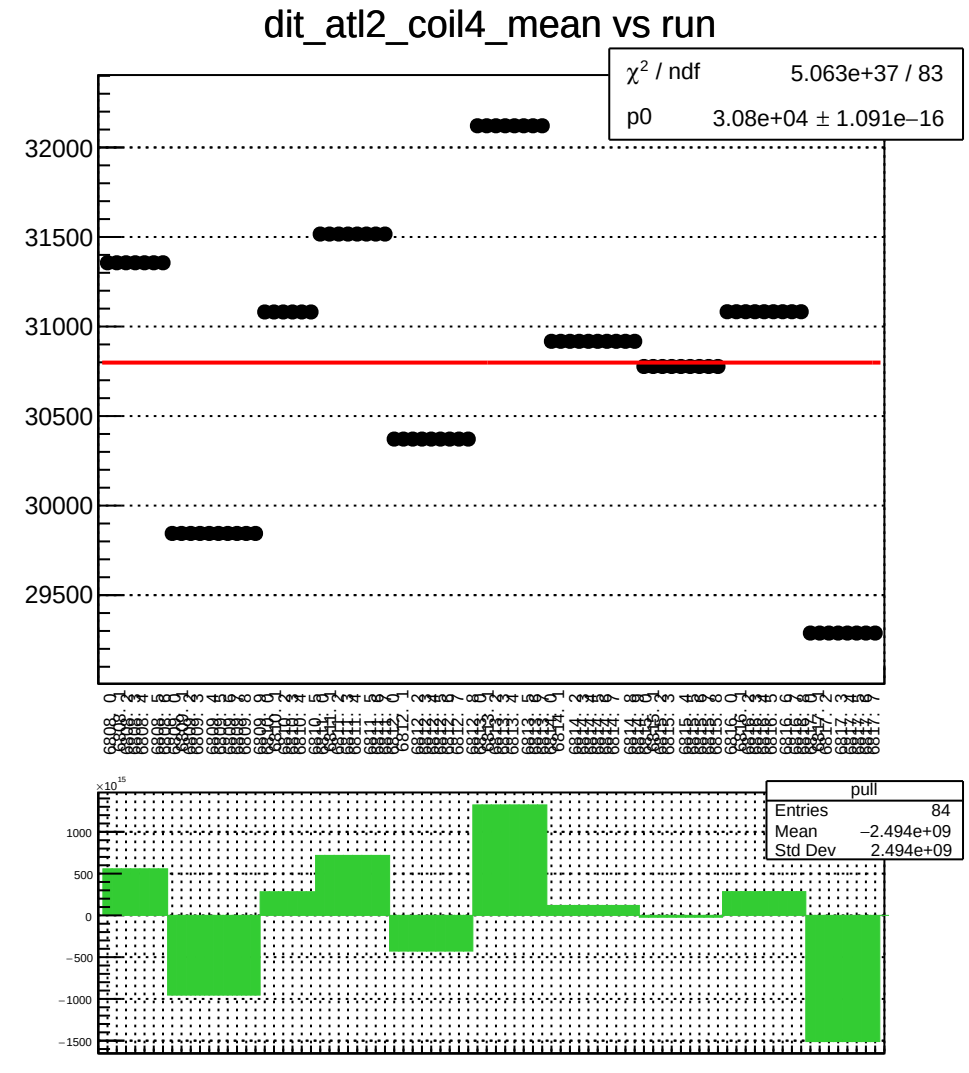

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

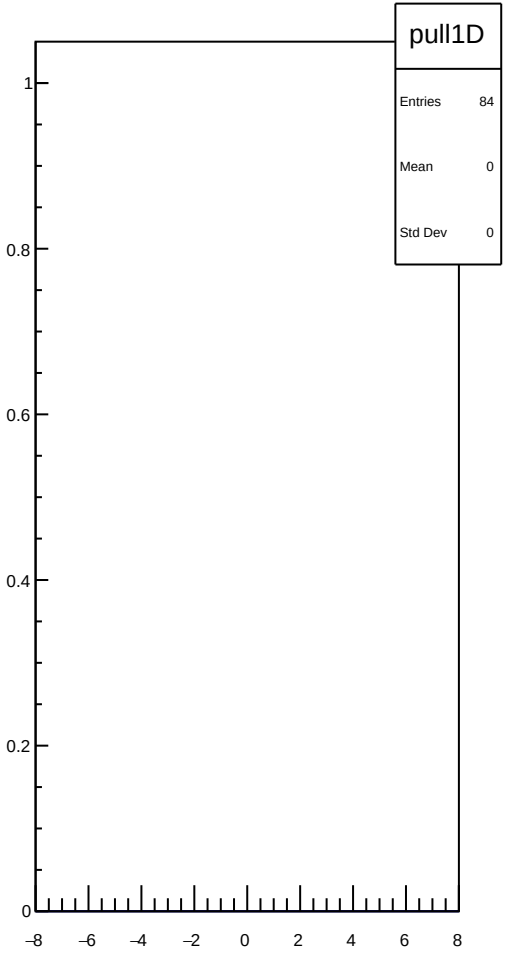

dit_atl1_coil4_err_mean vs run
χ² / ndf 7.837e+35 / 83
p0 357.9 ± 1.091e−16
600
550
500
450
400
350
300
250
pull
Entries 84
Mean −1.259e+09
Std Dev 1.259e+09
×10¹⁵
200
150
100
50
0
−50
−100

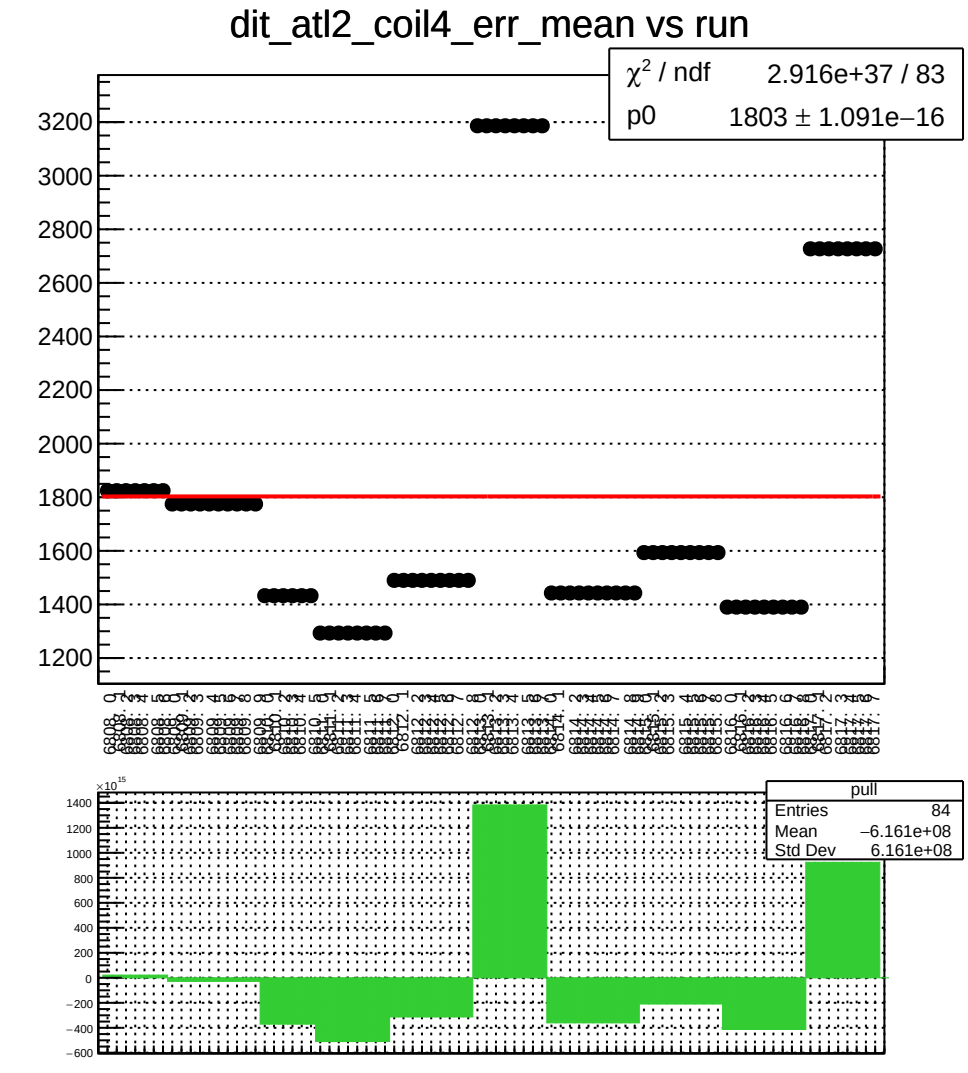

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

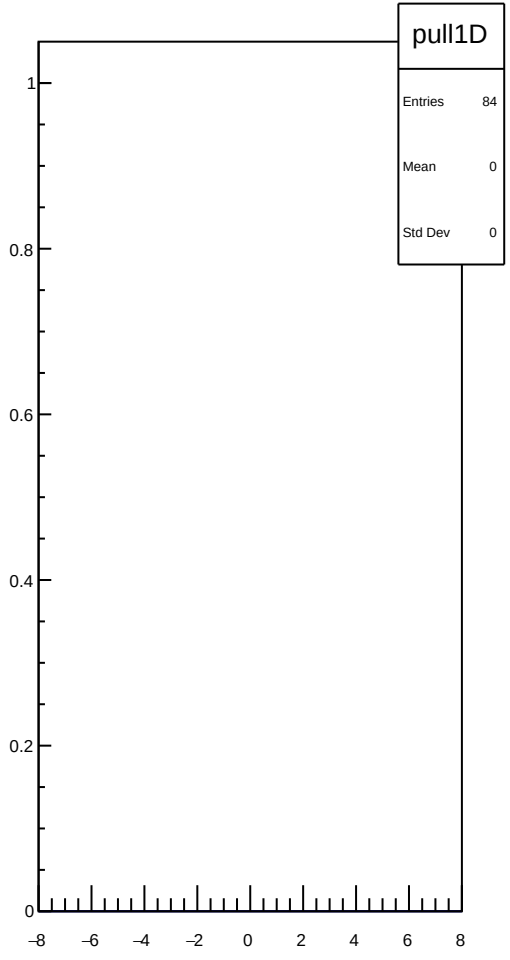

dit_atl1_coil4_Ndata_mean vs run
χ² / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

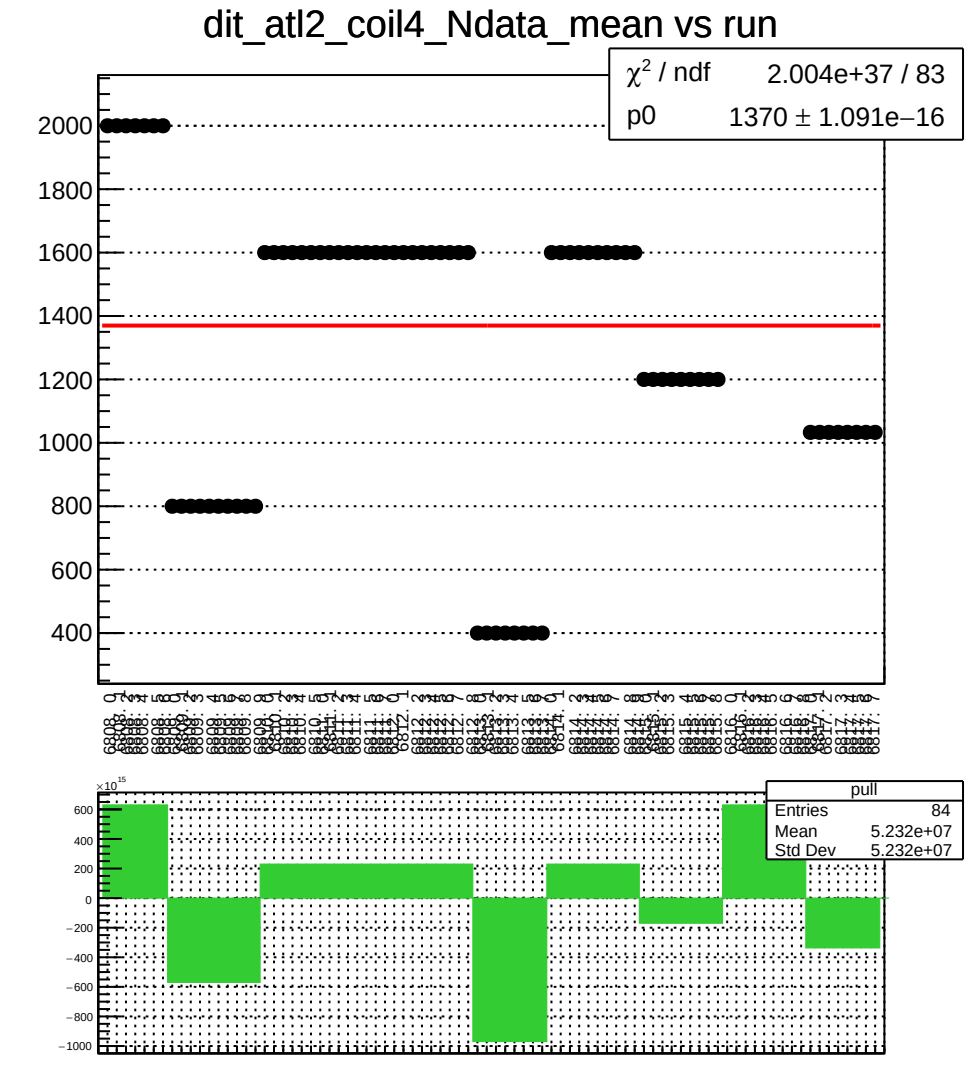

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

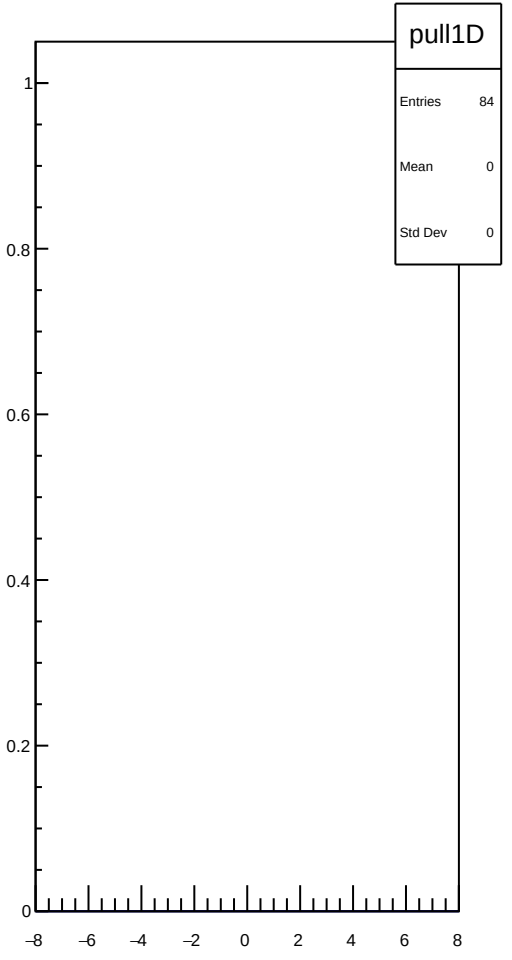

dit_atl2_coil4_mean vs run
χ² / ndf 5.063e+37 / 83
p0 3.08e+04 ± 1.091e−16
32000
31500
31000
30500
30000
29500
pull
Entries 84
Mean −2.494e+09
Std Dev 2.494e+09
×10¹⁵
1000
500
0
−500
−1000
−1500

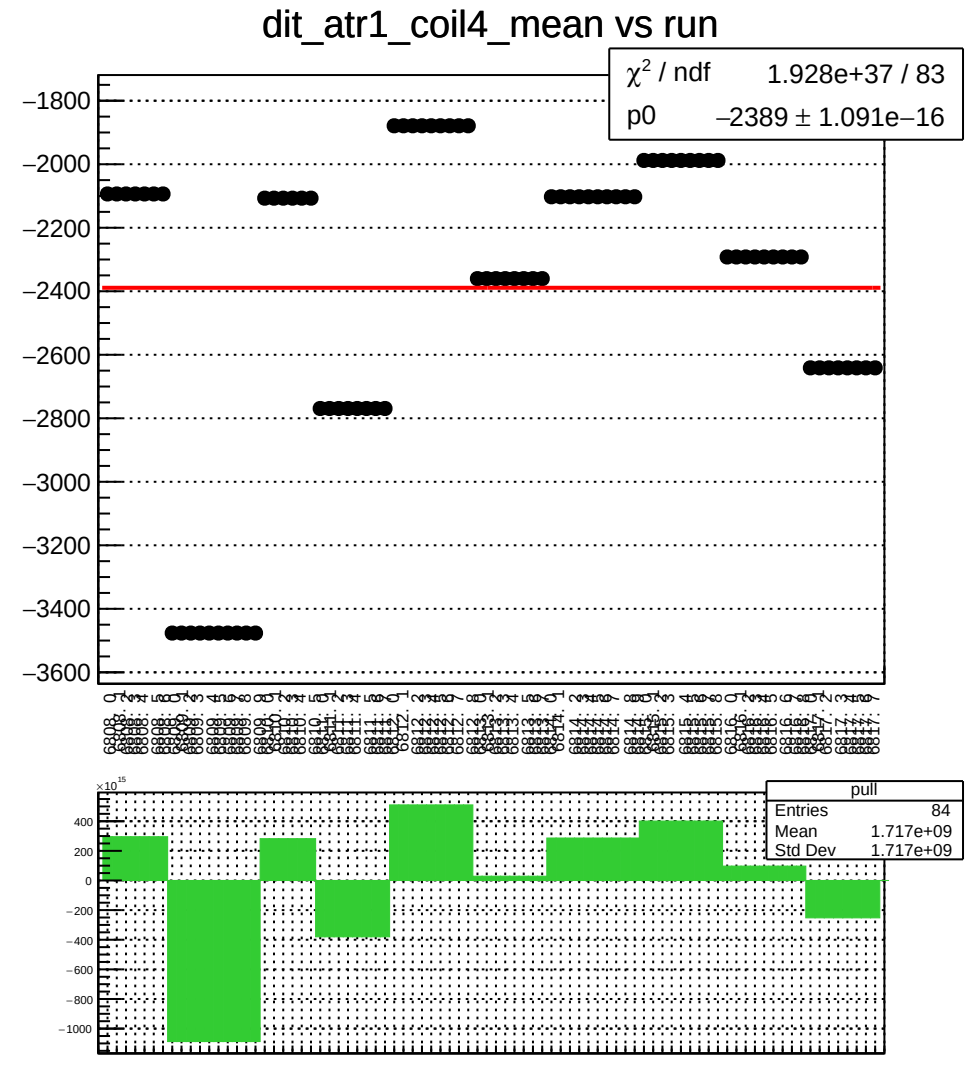

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

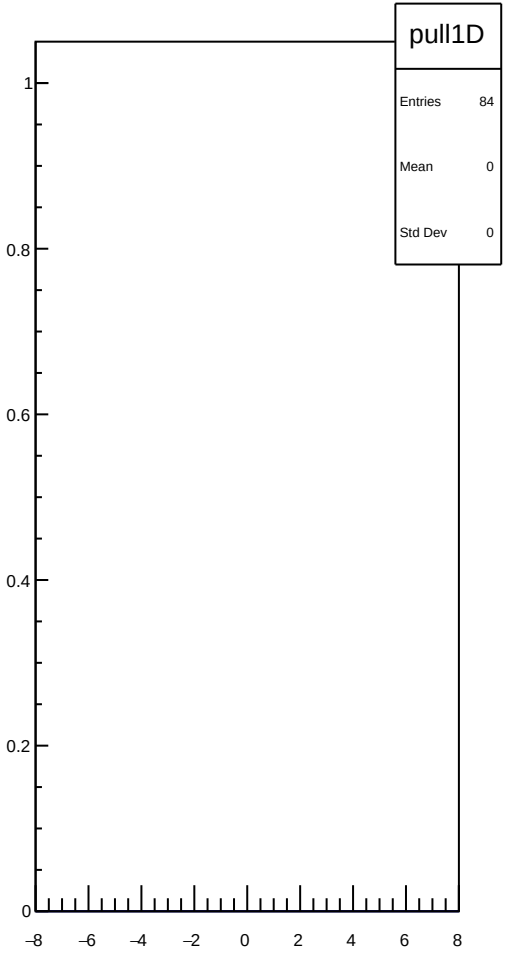

dit_atl2_coil4_err_mean vs run
χ² / ndf 2.916e+37 / 83
p0 1803 ± 1.091e−16
pull
Entries 84
Mean −6.161e+08
Std Dev 6.161e+08

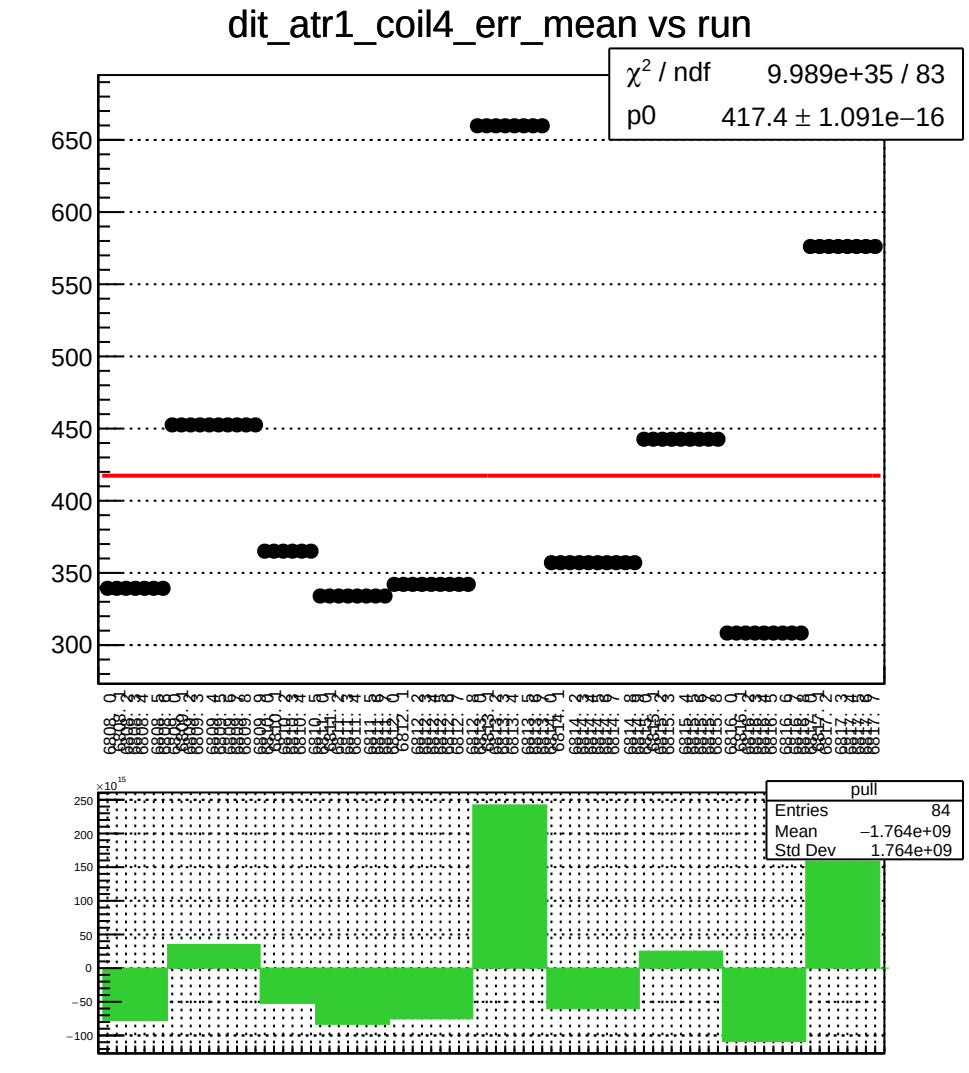

pull1D
Entries 84
Mean 0
Std Dev 0

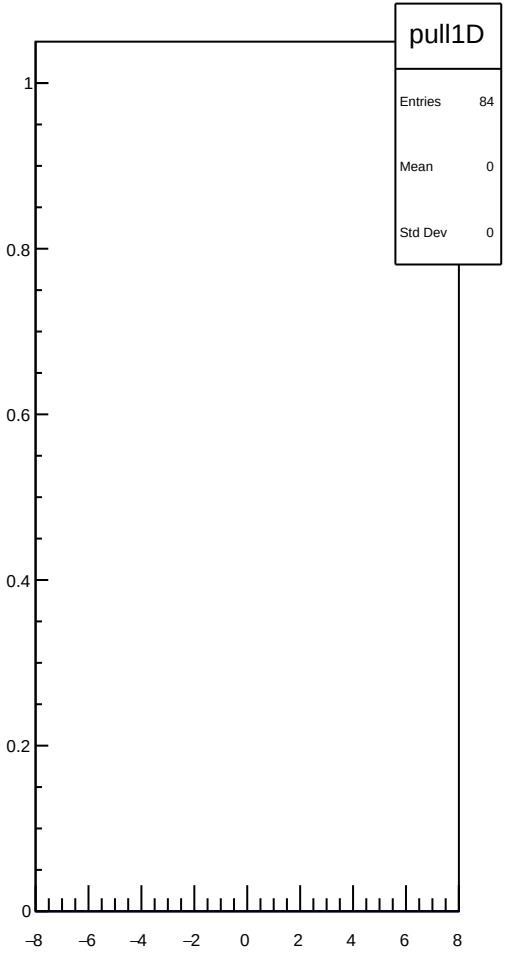

dit_atl2_coil4_Ndata_mean vs run
χ² / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

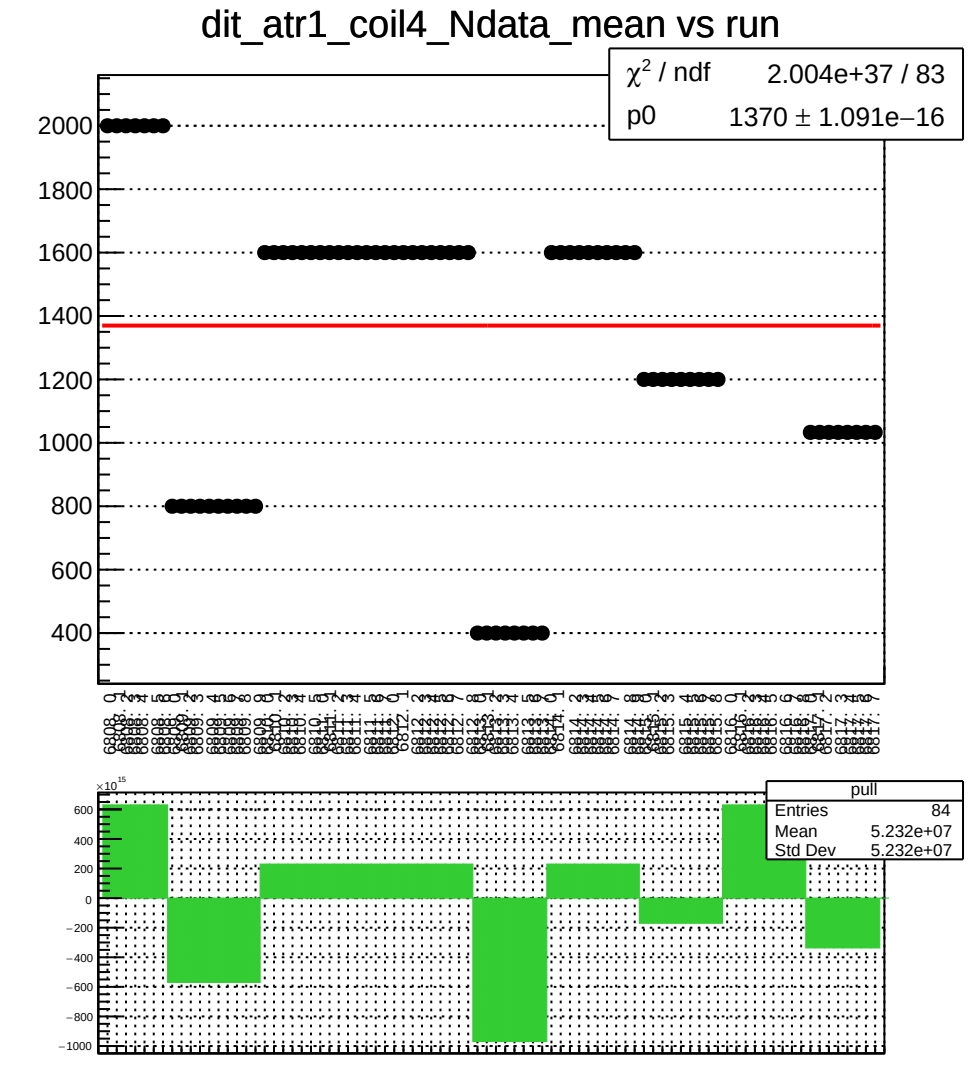

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

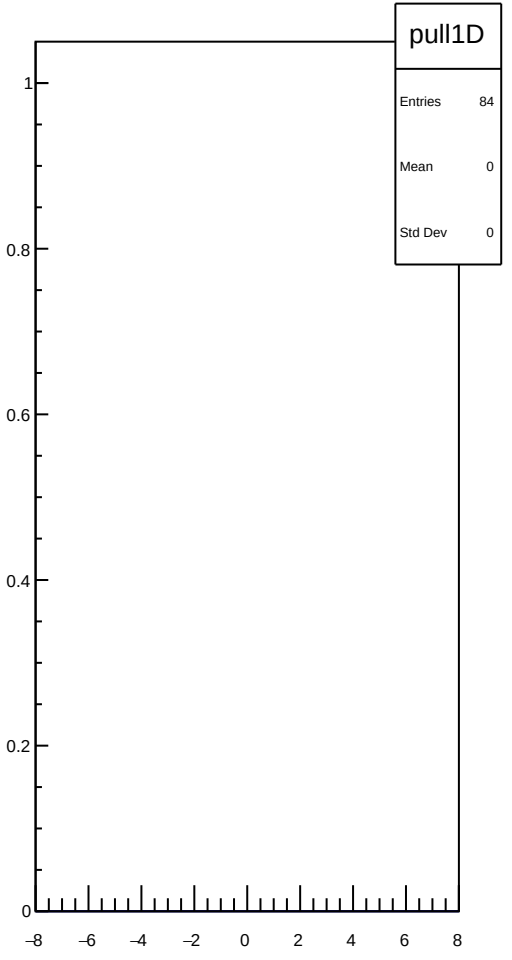

dit_atr1_coil4_mean vs run
χ² / ndf 1.928e+37 / 83
p0 −2389 ± 1.091e−16
−1800
−2000
−2200
−2400
−2600
−2800
−3000
−3200
−3400
−3600
×10¹⁵
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean 1.717e+09
Std Dev 1.717e+09

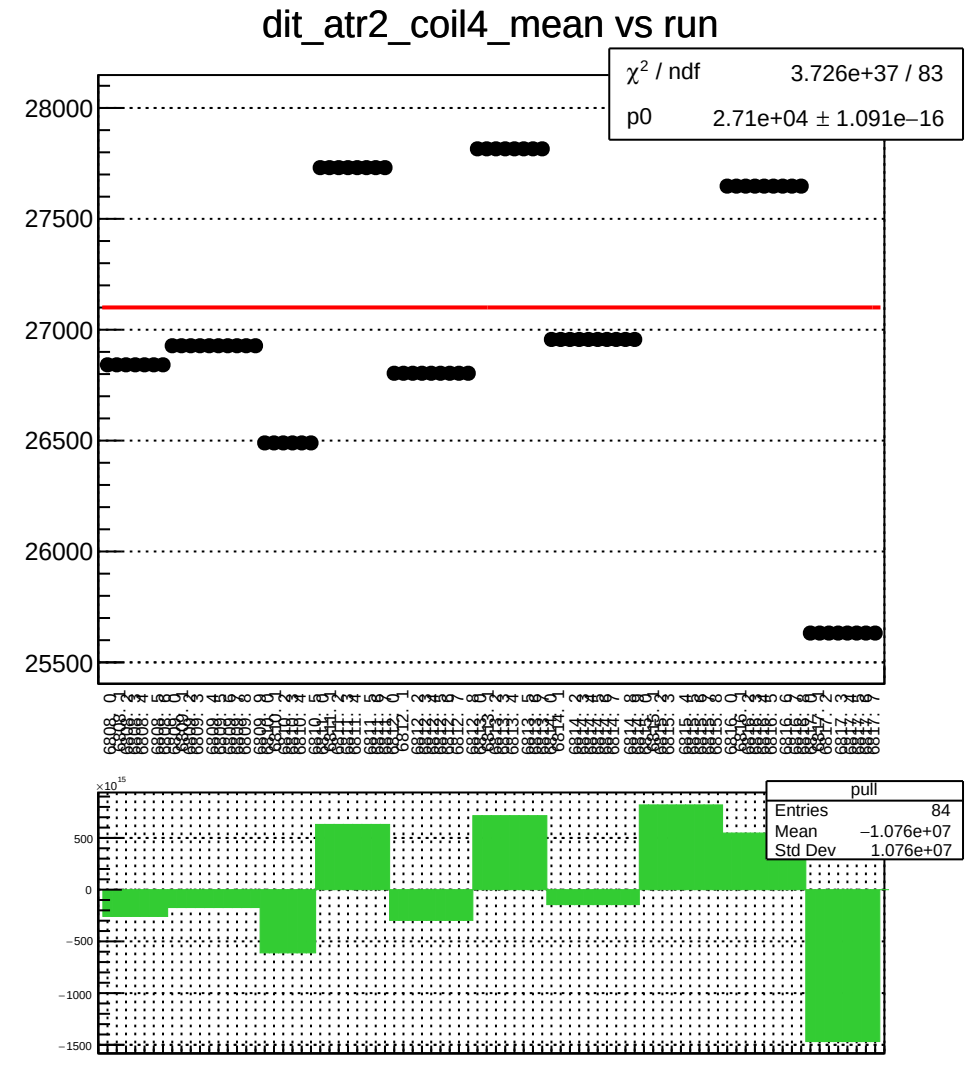

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

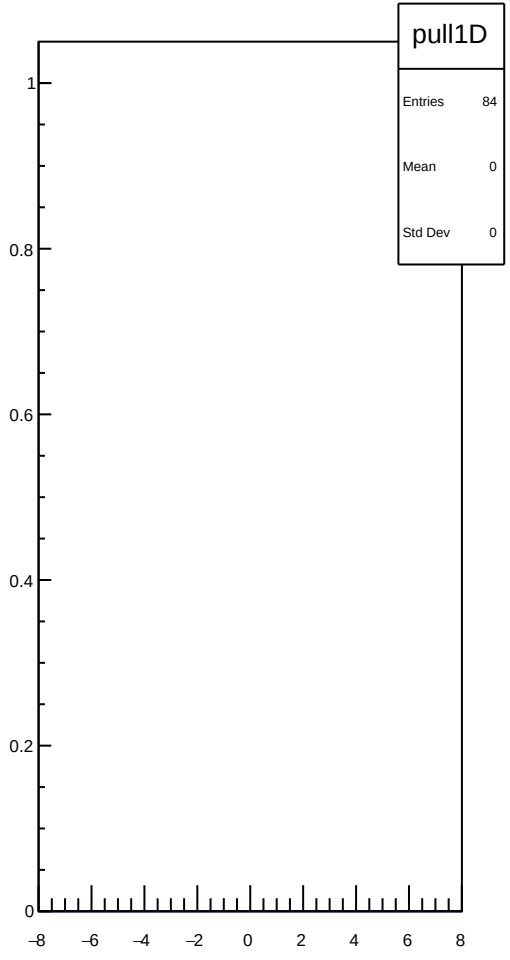

dit_atr1_coil4_err_mean vs run
χ² / ndf 9.989e+35 / 83
p0 417.4 ± 1.091e−16
650
600
550
500
450
400
350
300
pull
Entries 84
Mean −1.764e+09
Std Dev 1.764e+09
×10¹⁵
250
200
150
100
50
0
−50
−100

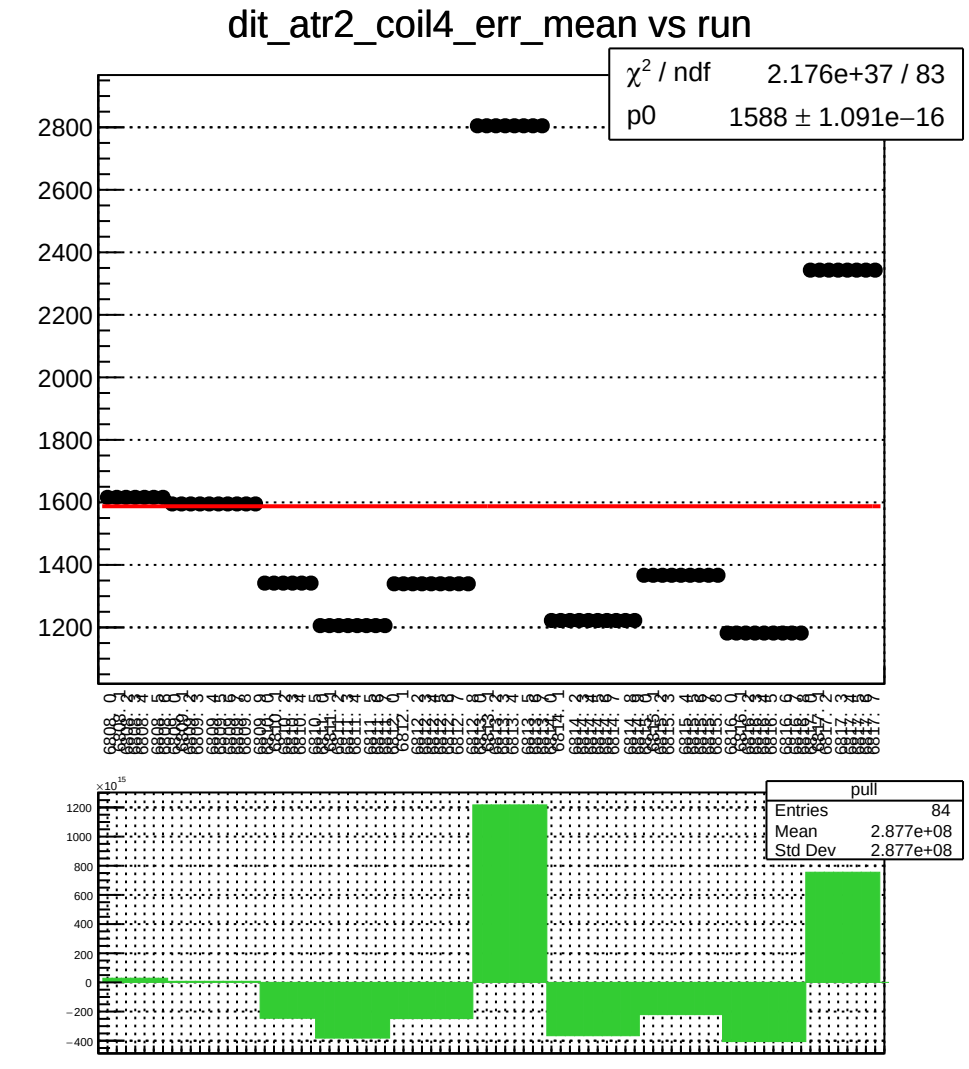

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

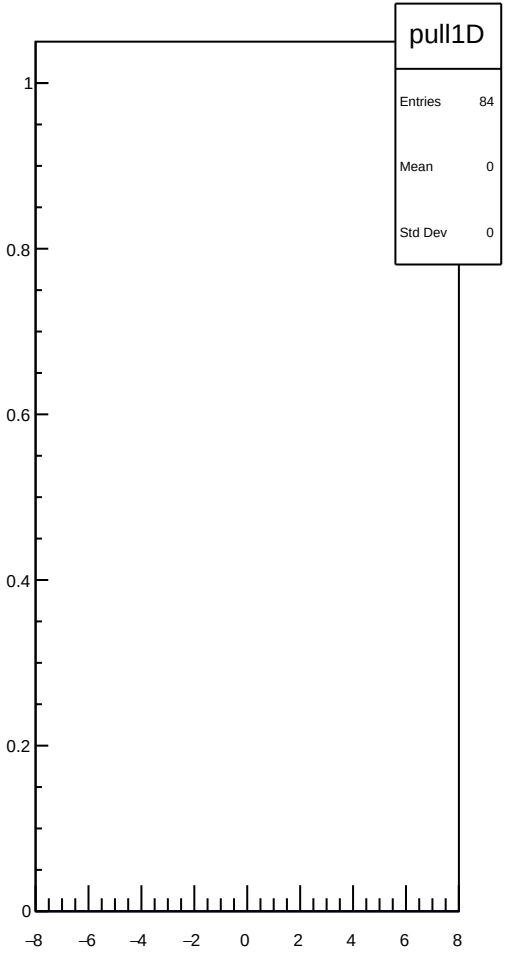

dit_atr1_coil4_Ndata_mean vs run
χ² / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07

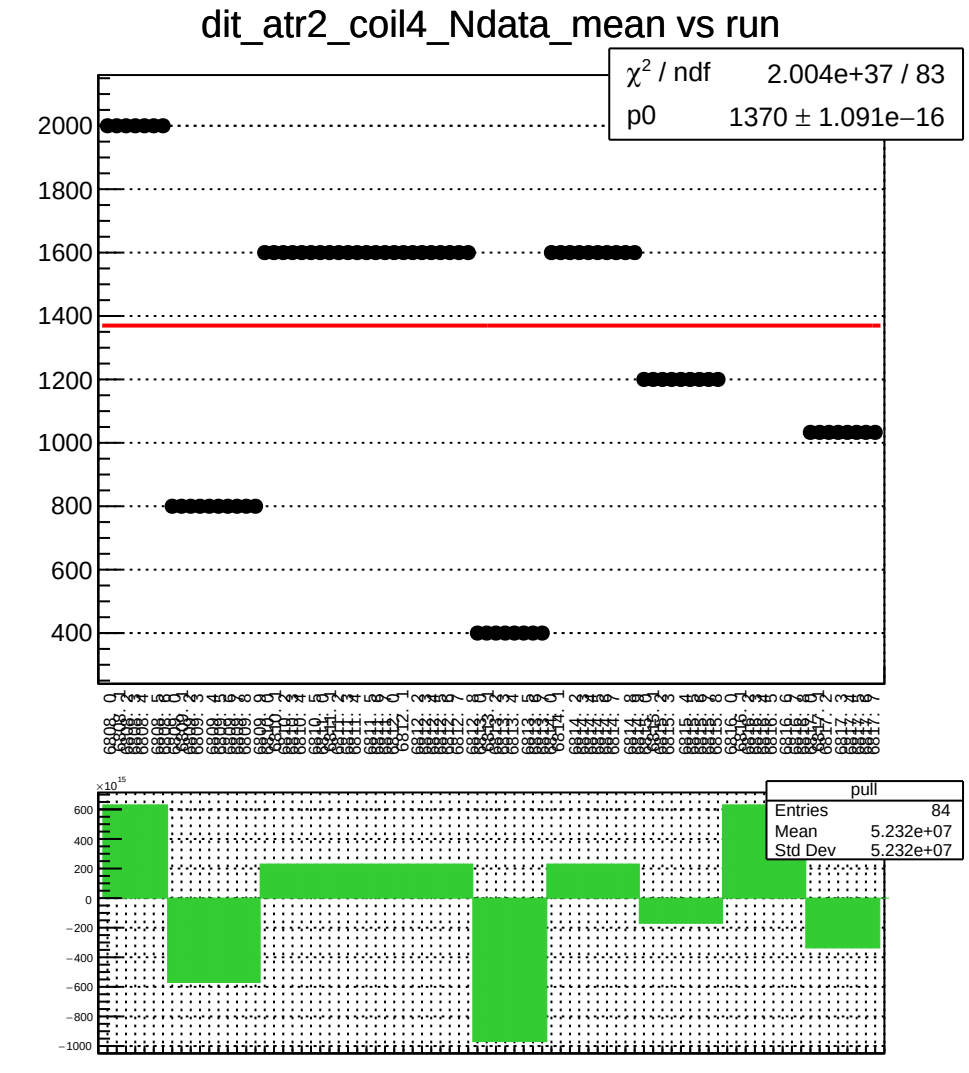

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

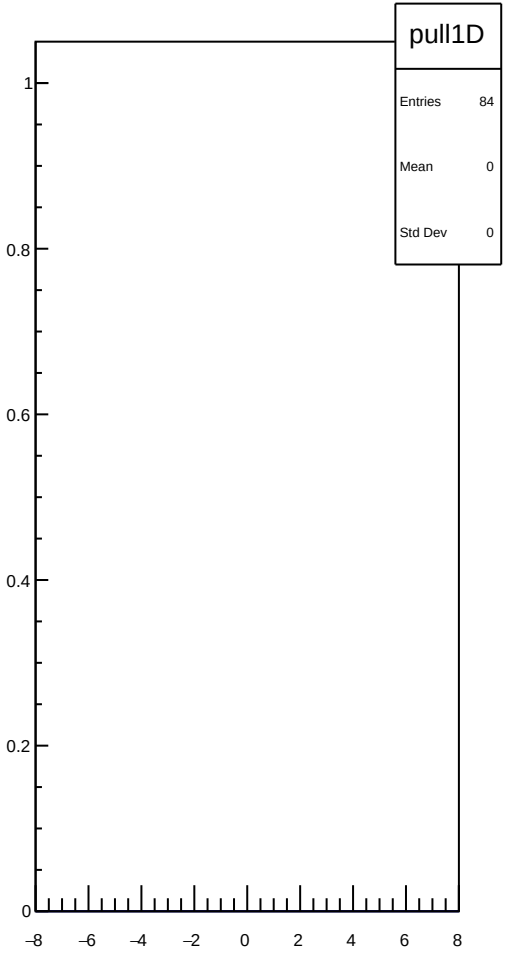

dit_atr2_coil4_mean vs run
χ² / ndf 3.726e+37 / 83
p0 2.71e+04 ± 1.091e−16
28000
27500
27000
26500
26000
25500
pull
Entries 84
Mean −1.076e+07
Std Dev 1.076e+07
×10¹⁵
500
0
−500
−1000
−1500

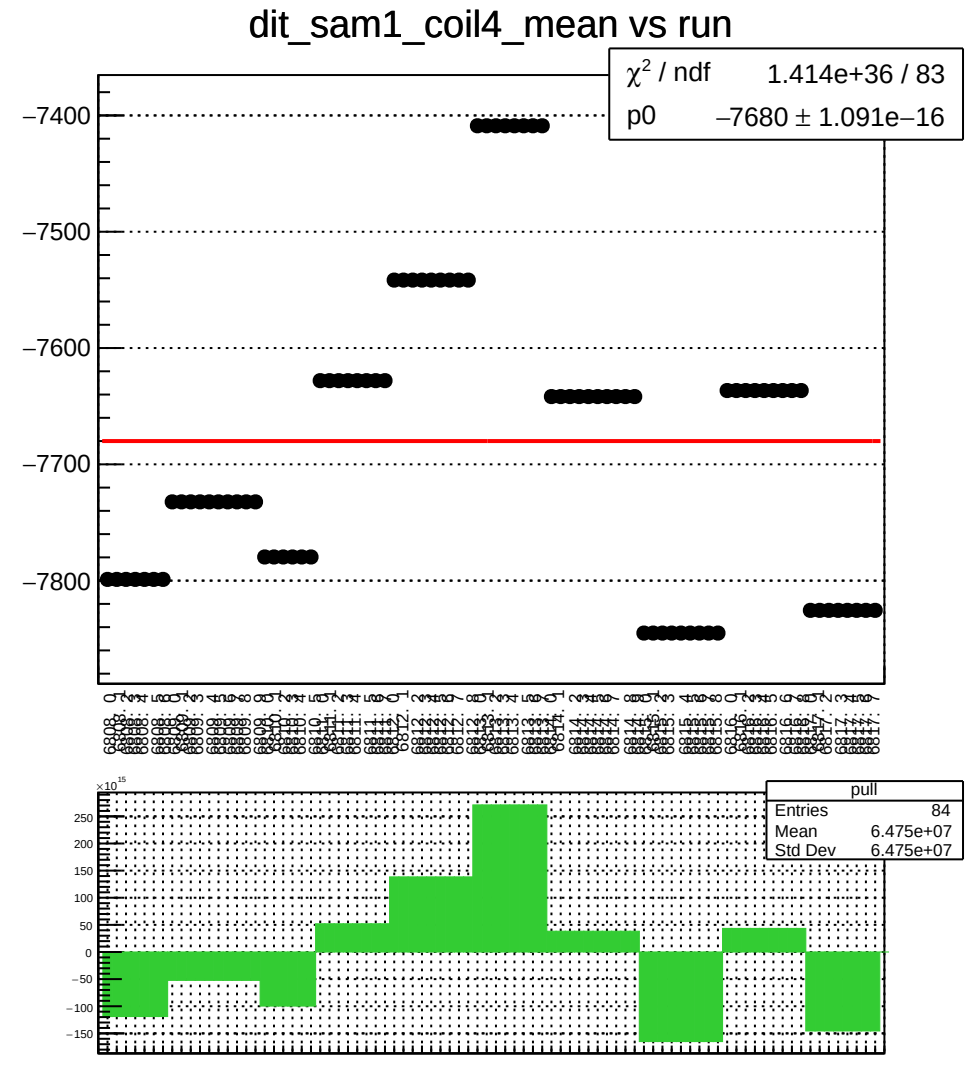

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

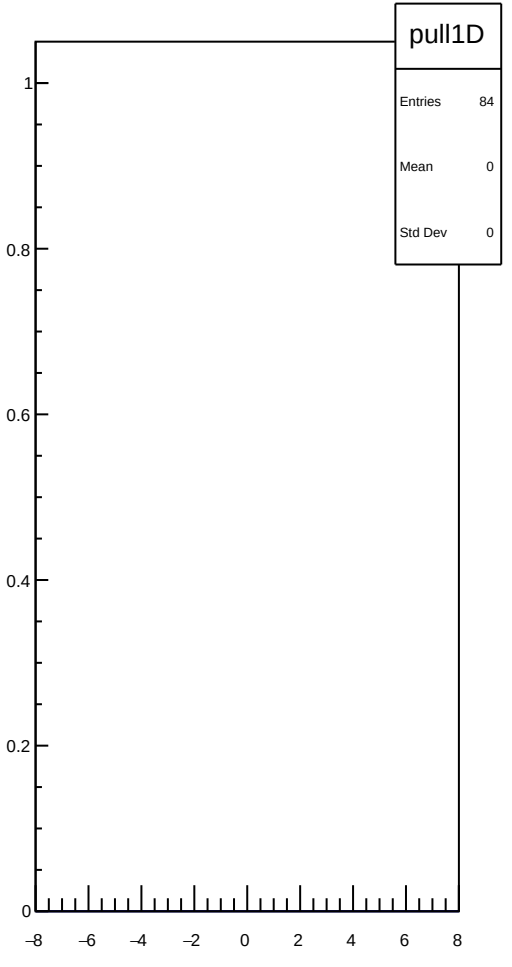

dit_atr2_coil4_err_mean vs run
χ² / ndf 2.176e+37 / 83
p0 1588 ± 1.091e−16
2800
2600
2400
2200
2000
1800
1600
1400
1200
×10¹⁵
1200
1000
800
600
400
200
0
−200
−400
pull
Entries 84
Mean 2.877e+08
Std Dev 2.877e+08

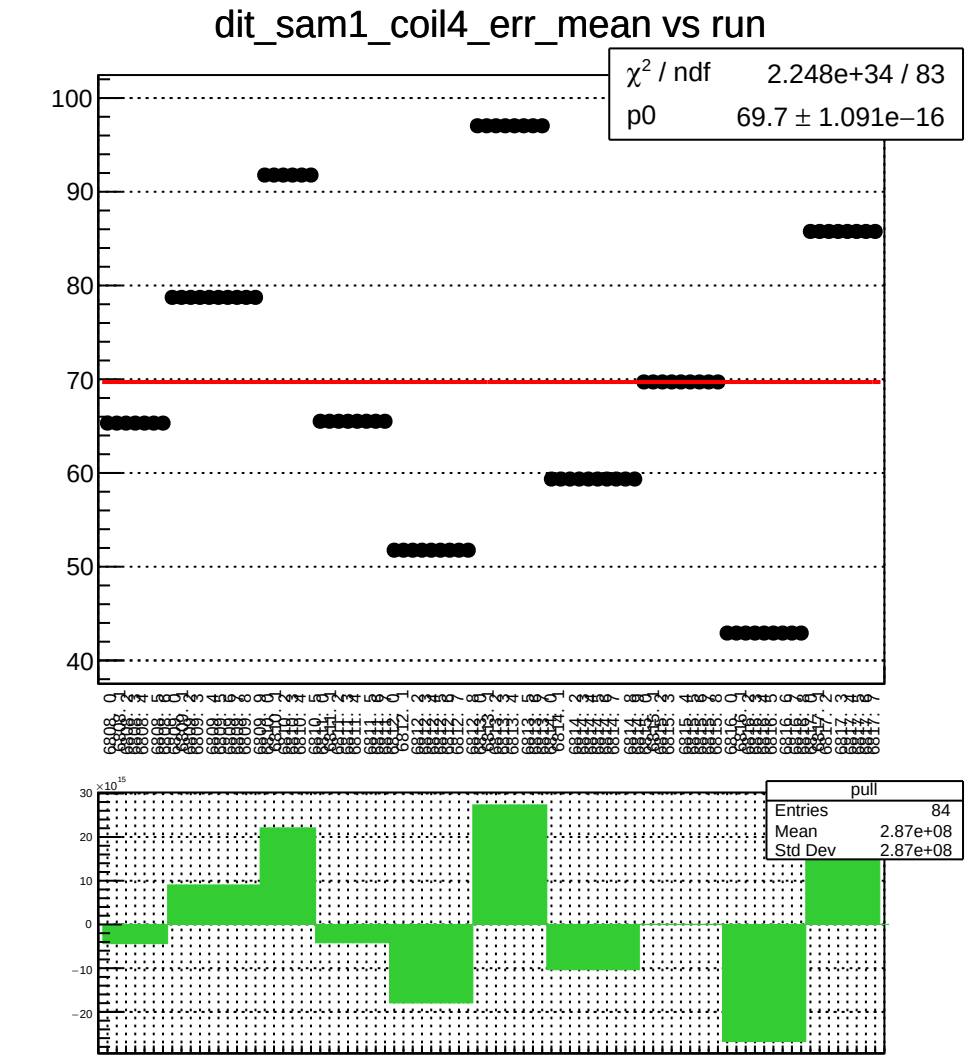

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

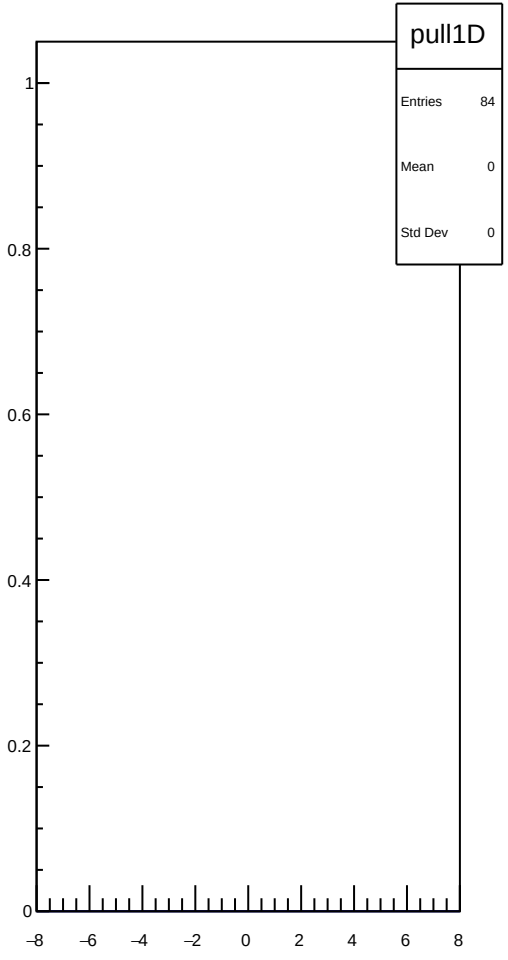

dit_atr2_coil4_Ndata_mean vs run
χ² / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

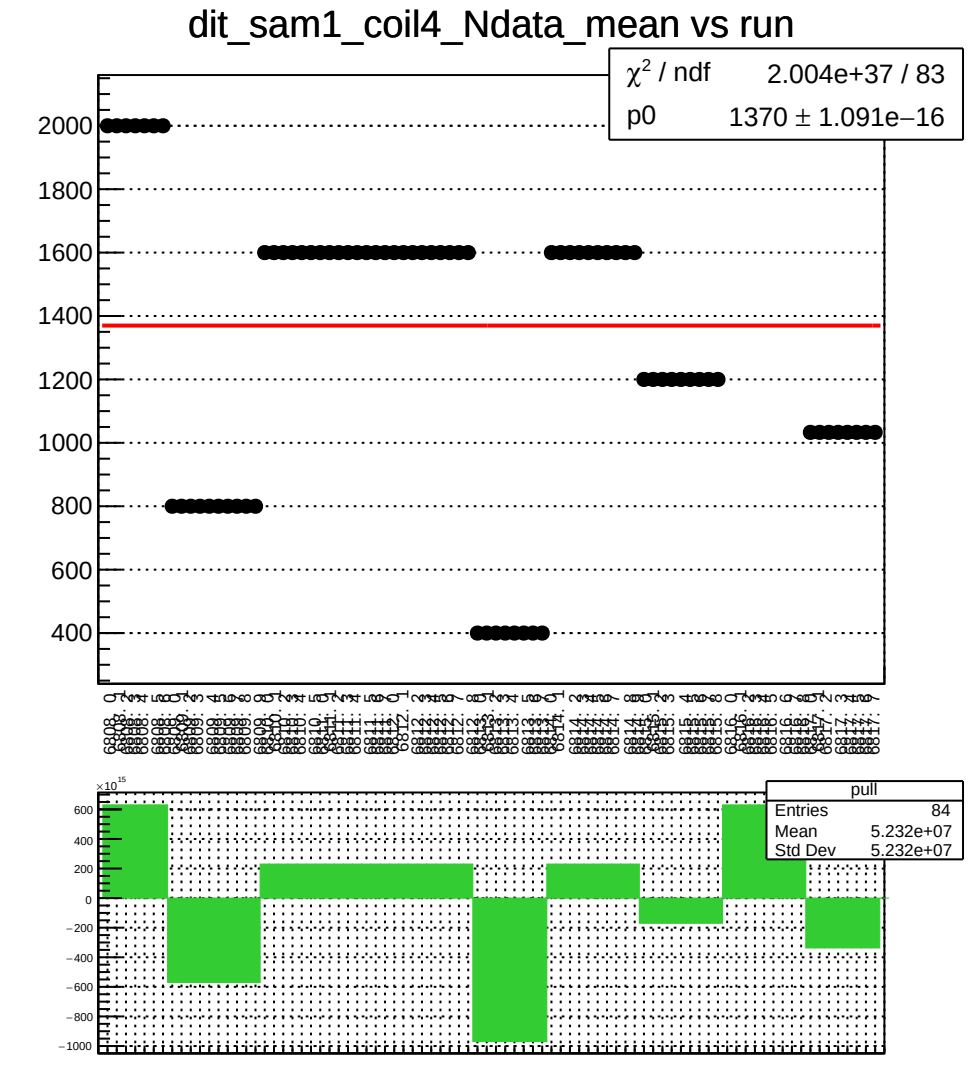

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

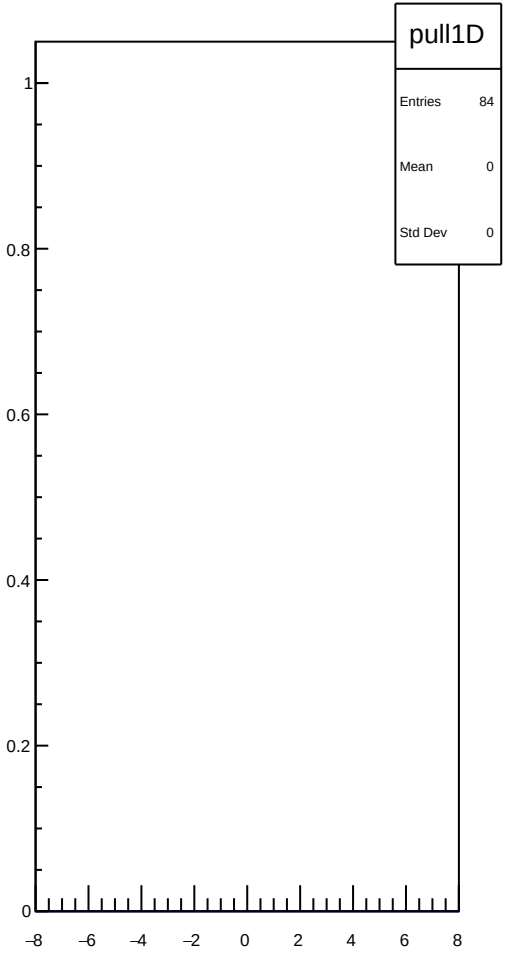

dit_sam1_coil4_mean vs run
χ² / ndf 1.414e+36 / 83
p0 −7680 ± 1.091e−16
−7400
−7500
−7600
−7700
−7800
pull
Entries 84
Mean 6.475e+07
Std Dev 6.475e+07
×10¹⁵
250
200
150
100
50
0
−50
−100
−150

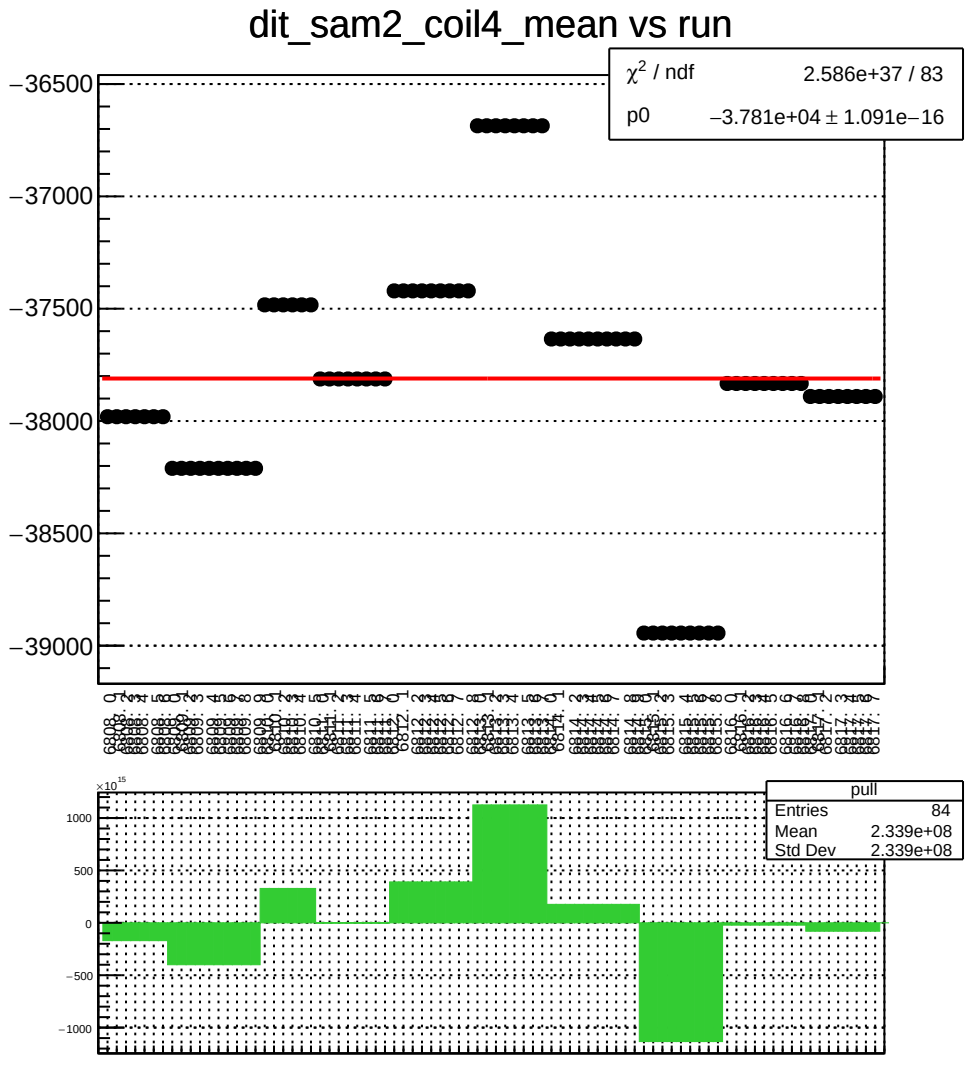

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

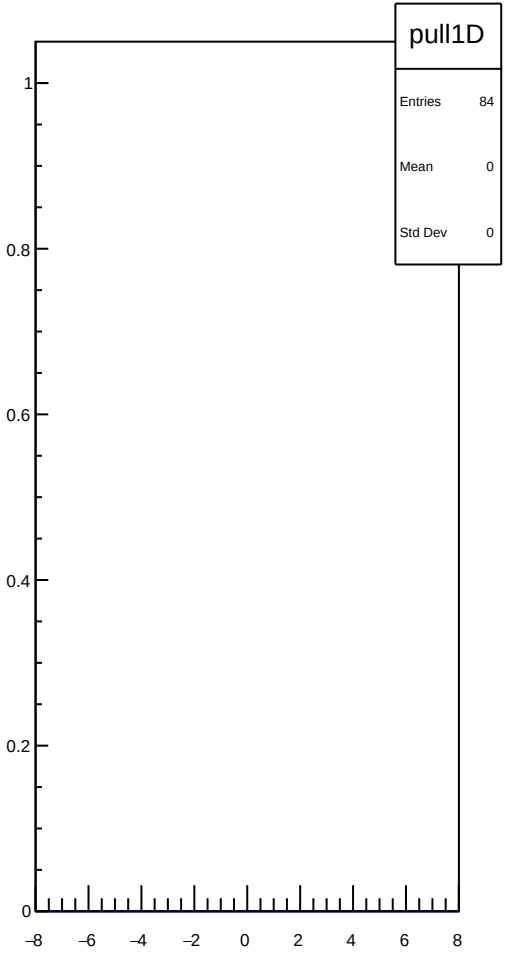

dit_sam1_coil4_err_mean vs run
χ² / ndf 2.248e+34 / 83
p0 69.7 ± 1.091e−16
pull
Entries 84
Mean 2.87e+08
Std Dev 2.87e+08
×10¹⁵

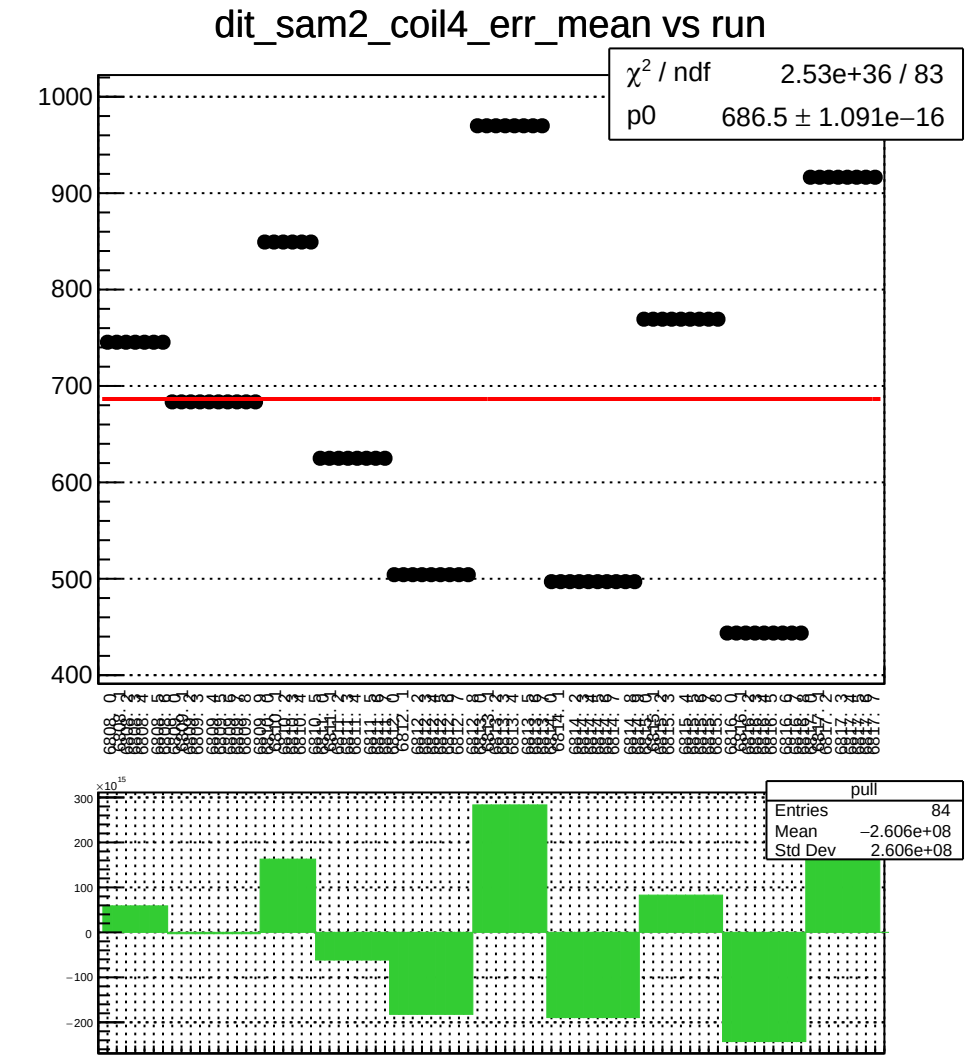

pull1D
Entries 84
Mean 0
Std Dev 0

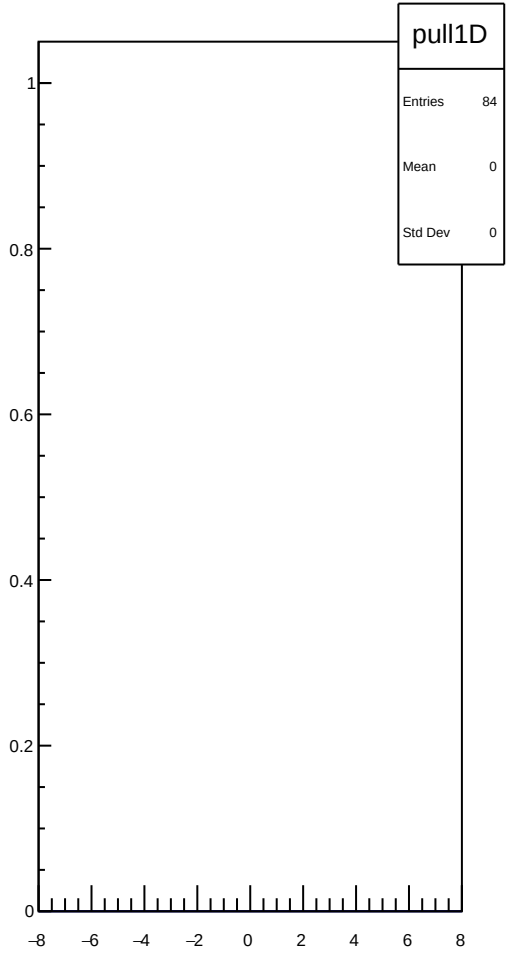

dit_sam1_coil4_Ndata_mean vs run
χ² / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

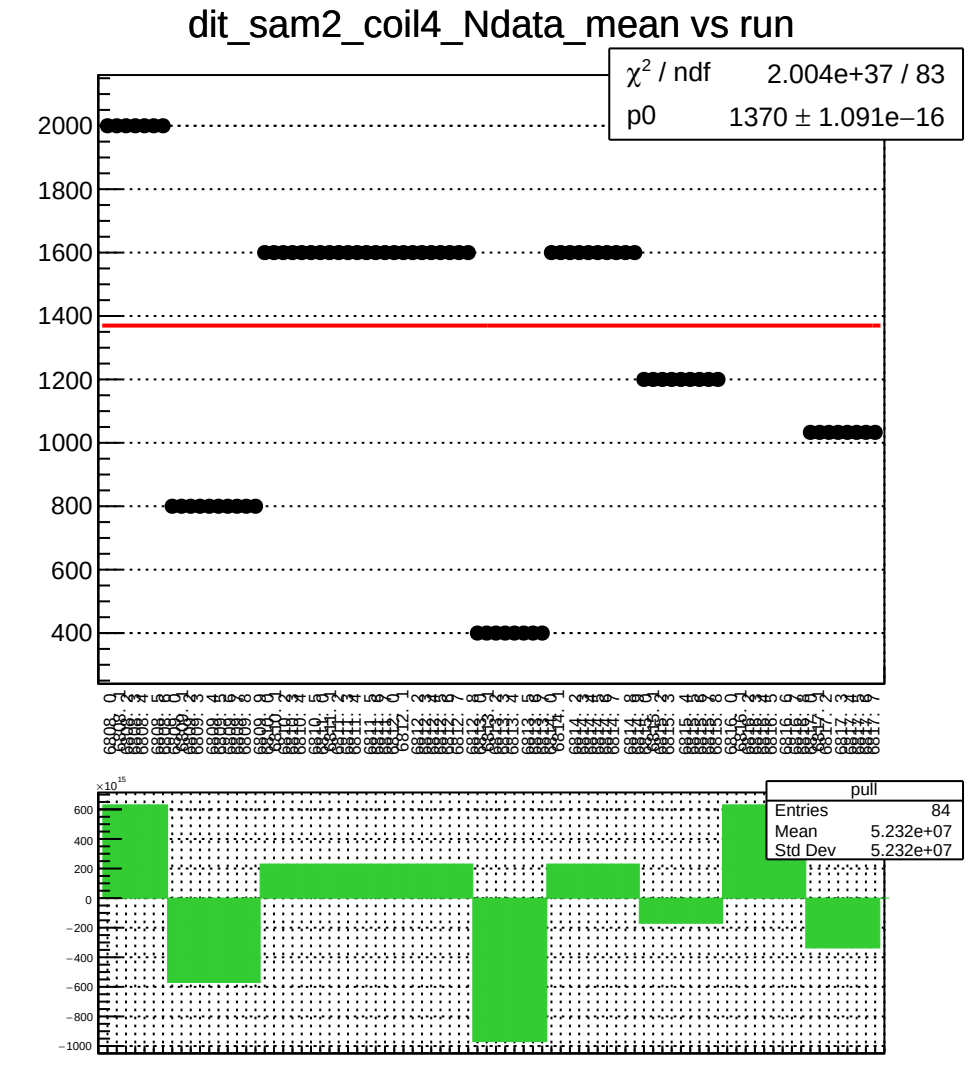

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

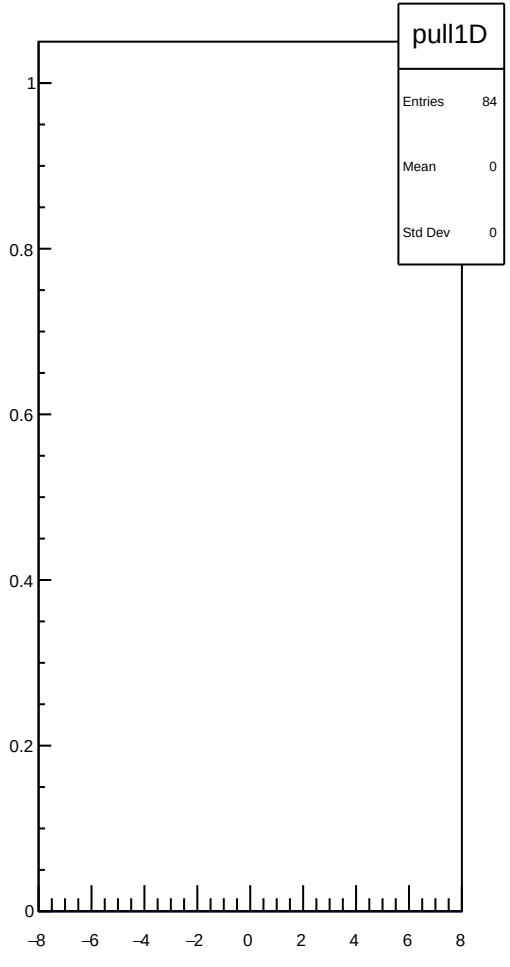

dit_sam2_coil4_mean vs run
χ² / ndf 2.586e+37 / 83
p0 −3.781e+04 ± 1.091e−16
−36500
−37000
−37500
−38000
−38500
−39000
pull
Entries 84
Mean 2.339e+08
Std Dev 2.339e+08
×10¹⁵
1000
500
0
−500
−1000

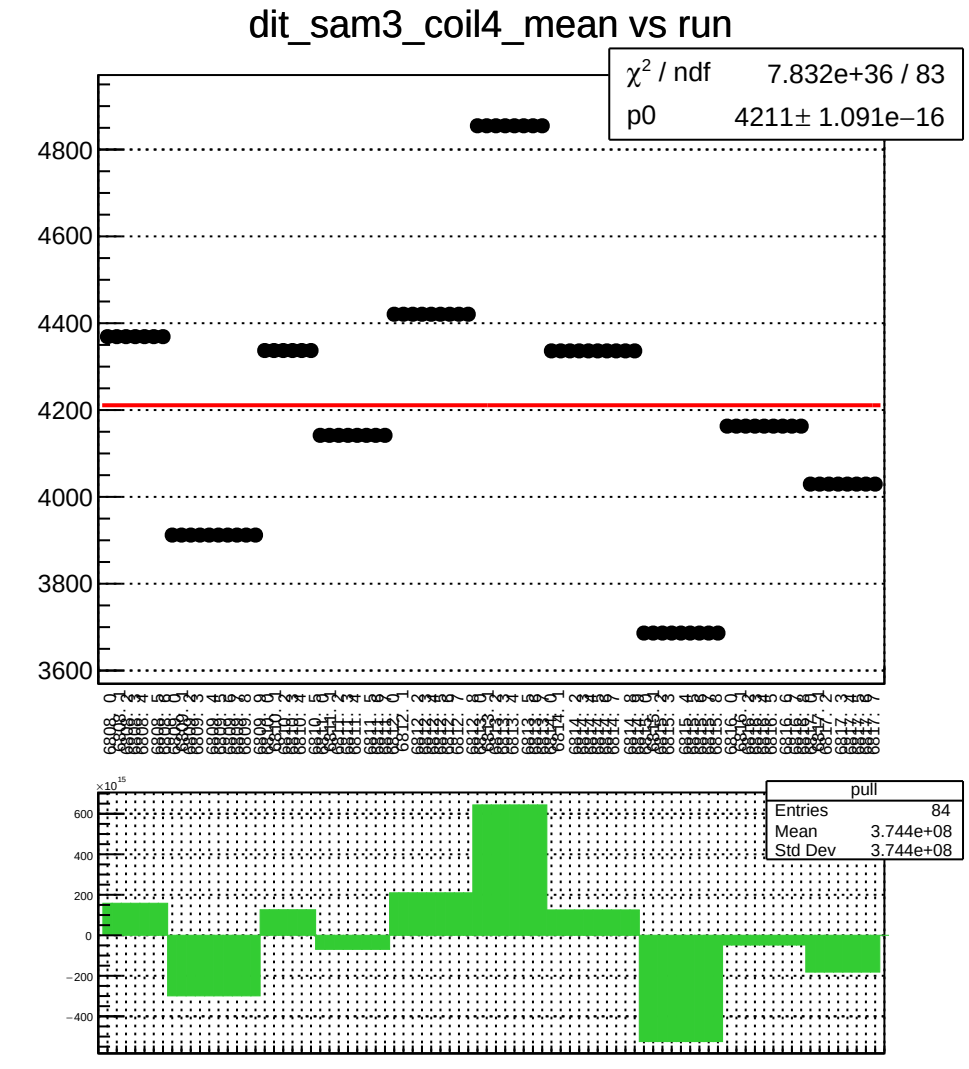

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

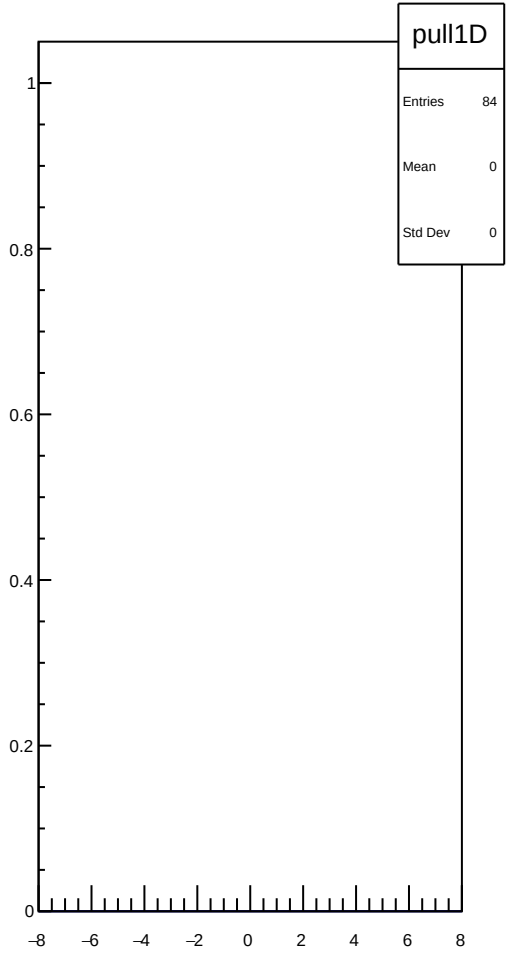

dit_sam2_coil4_err_mean vs run
χ² / ndf 2.53e+36 / 83
p0 686.5 ± 1.091e−16
1000
900
800
700
600
500
400
pull
Entries 84
Mean −2.606e+08
Std Dev 2.606e+08
×10¹⁵
300
200
100
0
−100
−200

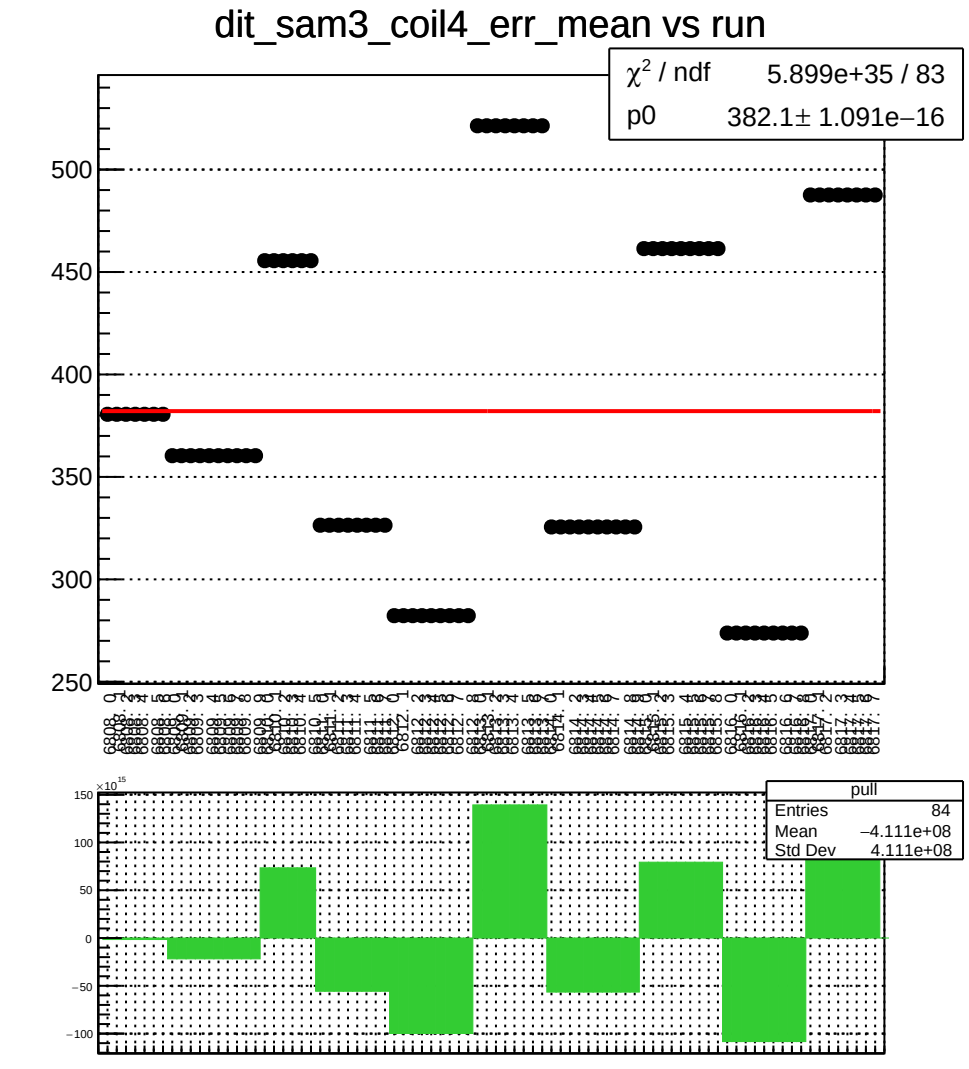

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

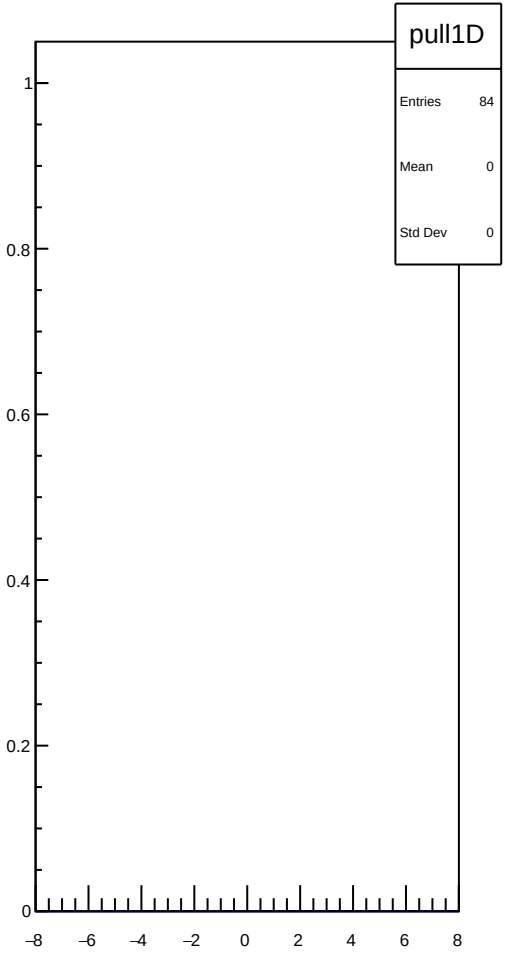

dit_sam2_coil4_Ndata_mean vs run
χ^2 / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07
×10^15
600
400
200
0
−200
−400
−600
−800
−1000

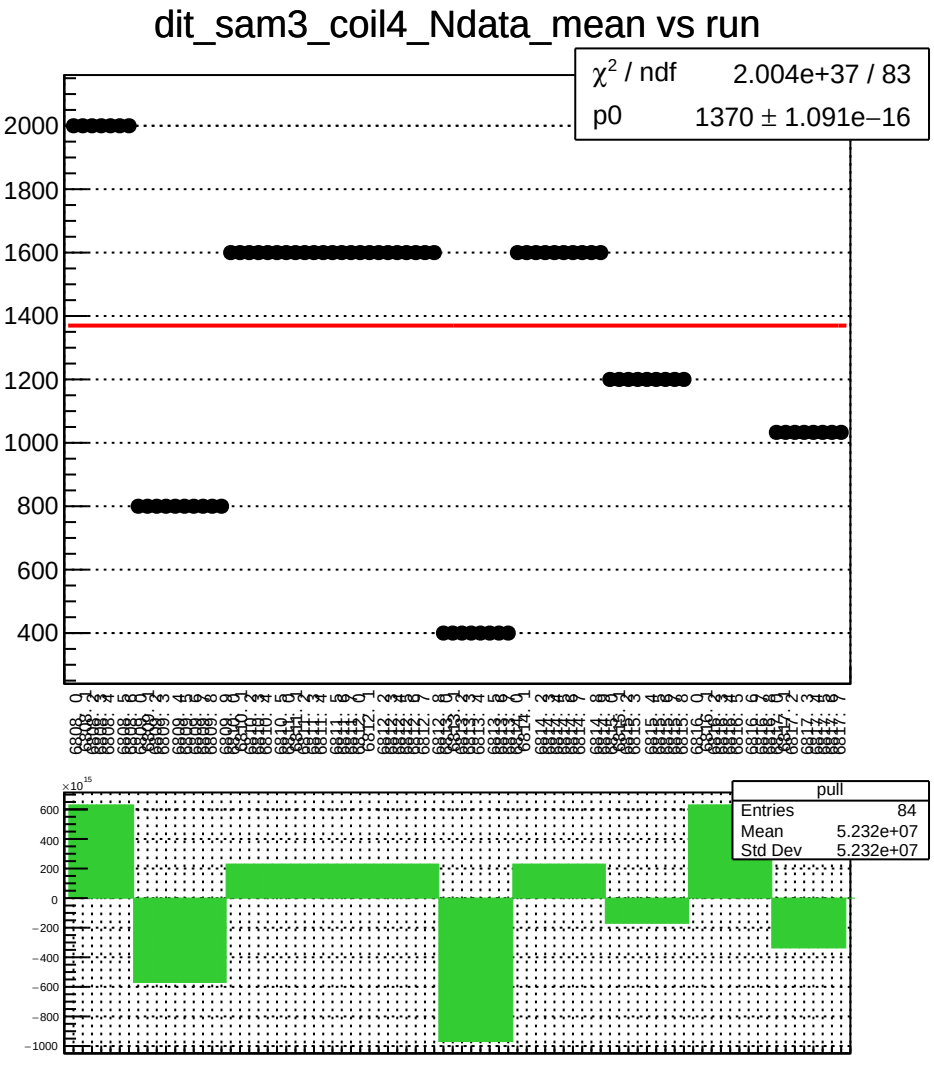

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

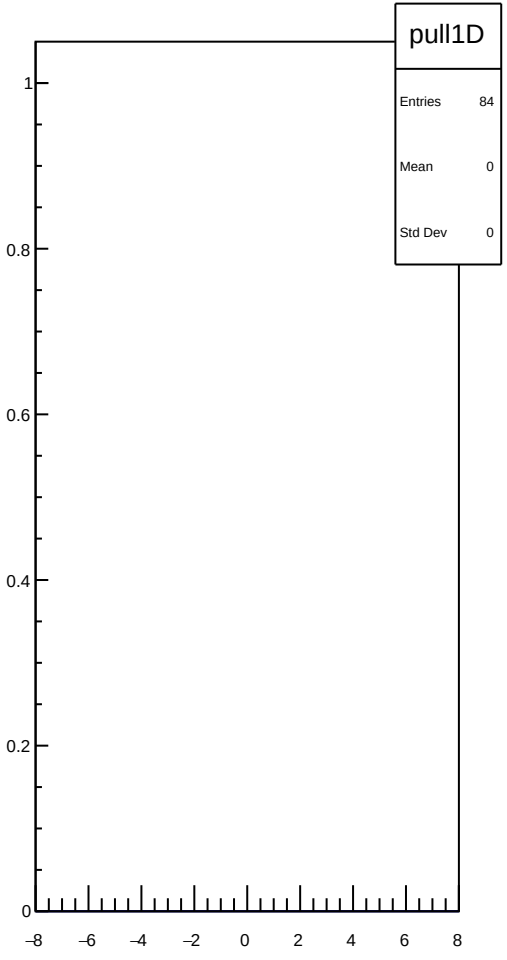

dit_sam3_coil4_mean vs run
χ² / ndf 7.832e+36 / 83
p0 4211± 1.091e−16
4800
4600
4400
4200
4000
3800
3600
×10¹⁵
600
400
200
0
−200
−400
pull
Entries 84
Mean 3.744e+08
Std Dev 3.744e+08

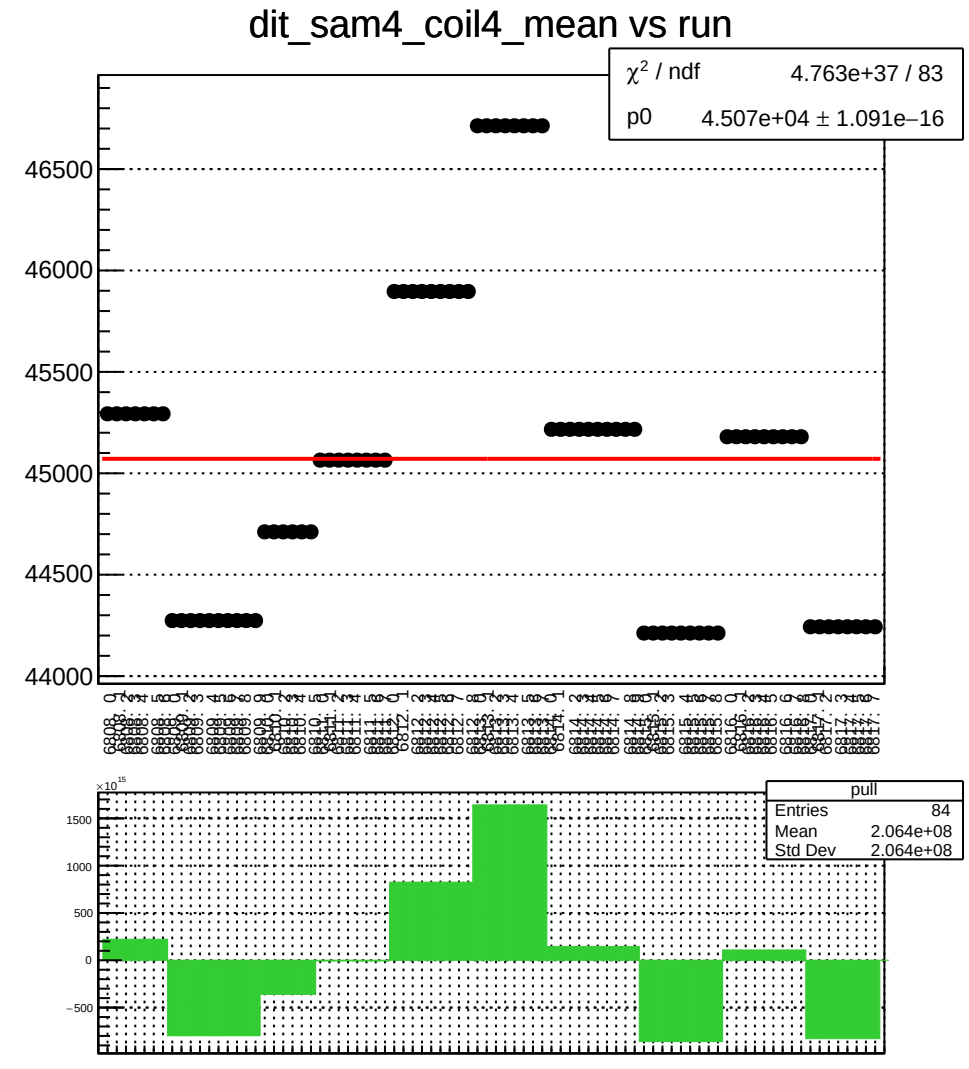

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

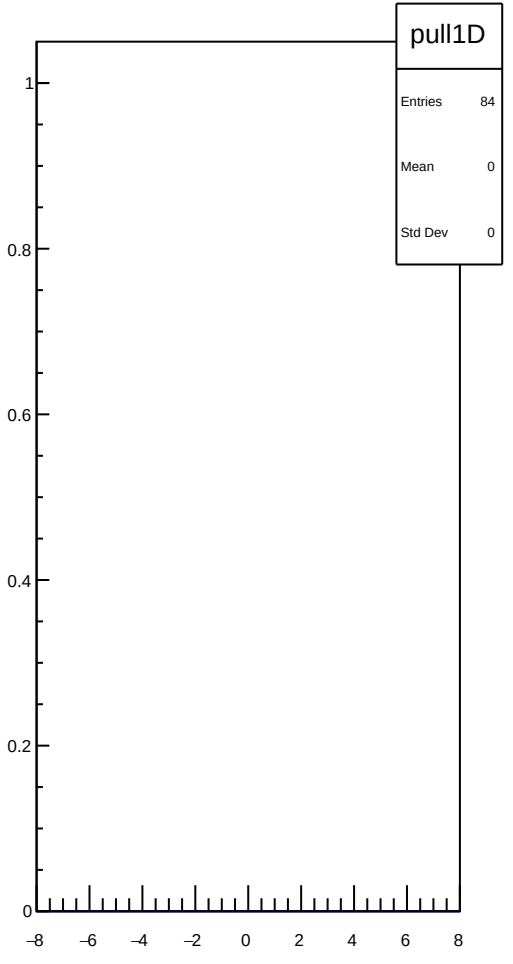

dit_sam3_coil4_err_mean vs run
χ² / ndf 5.899e+35 / 83
p0 382.1± 1.091e−16
500
450
400
350
300
250
pull
Entries 84
Mean −4.111e+08
Std Dev 4.111e+08
×10¹⁵
150
100
50
0
−50
−100

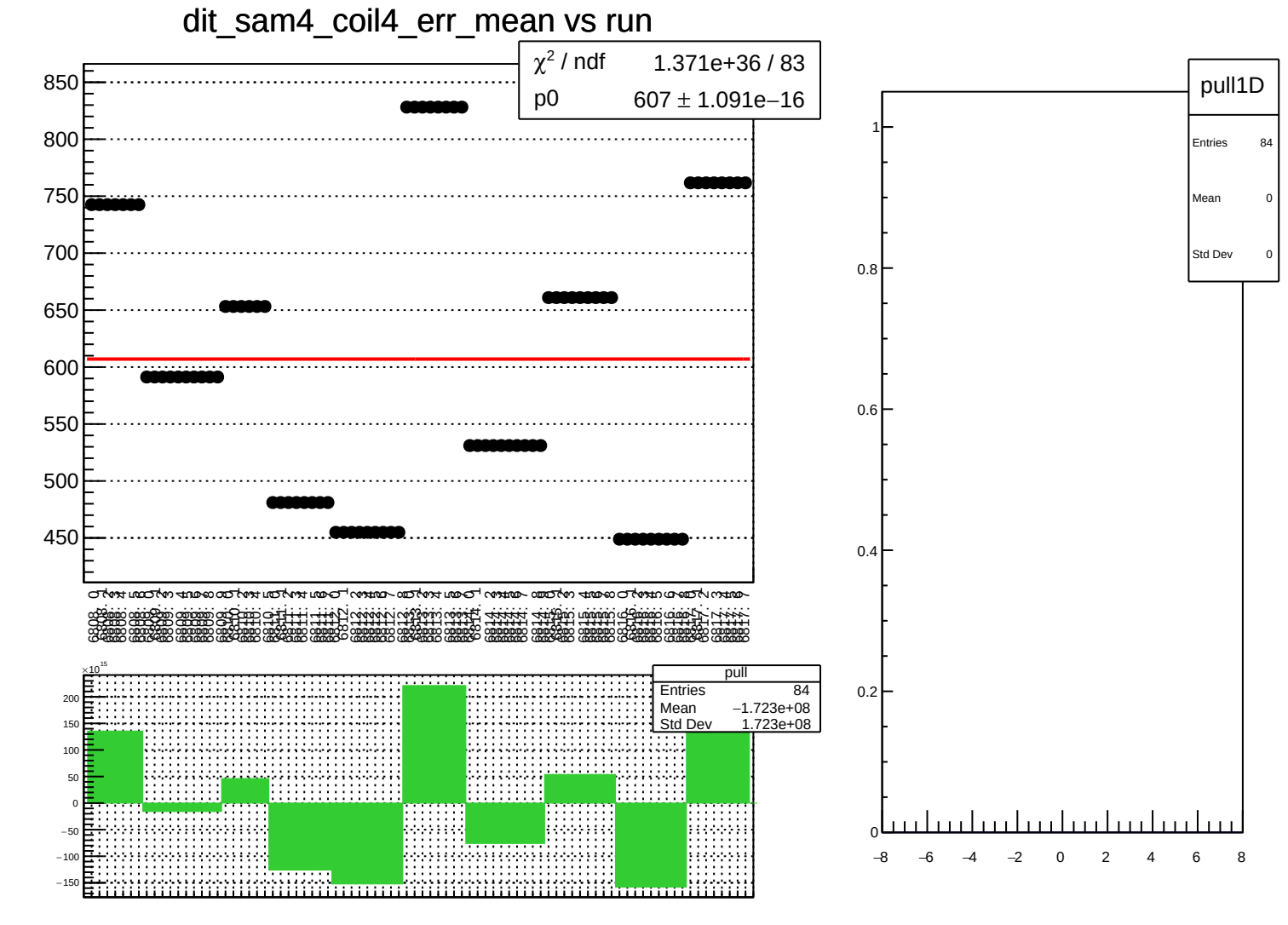

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

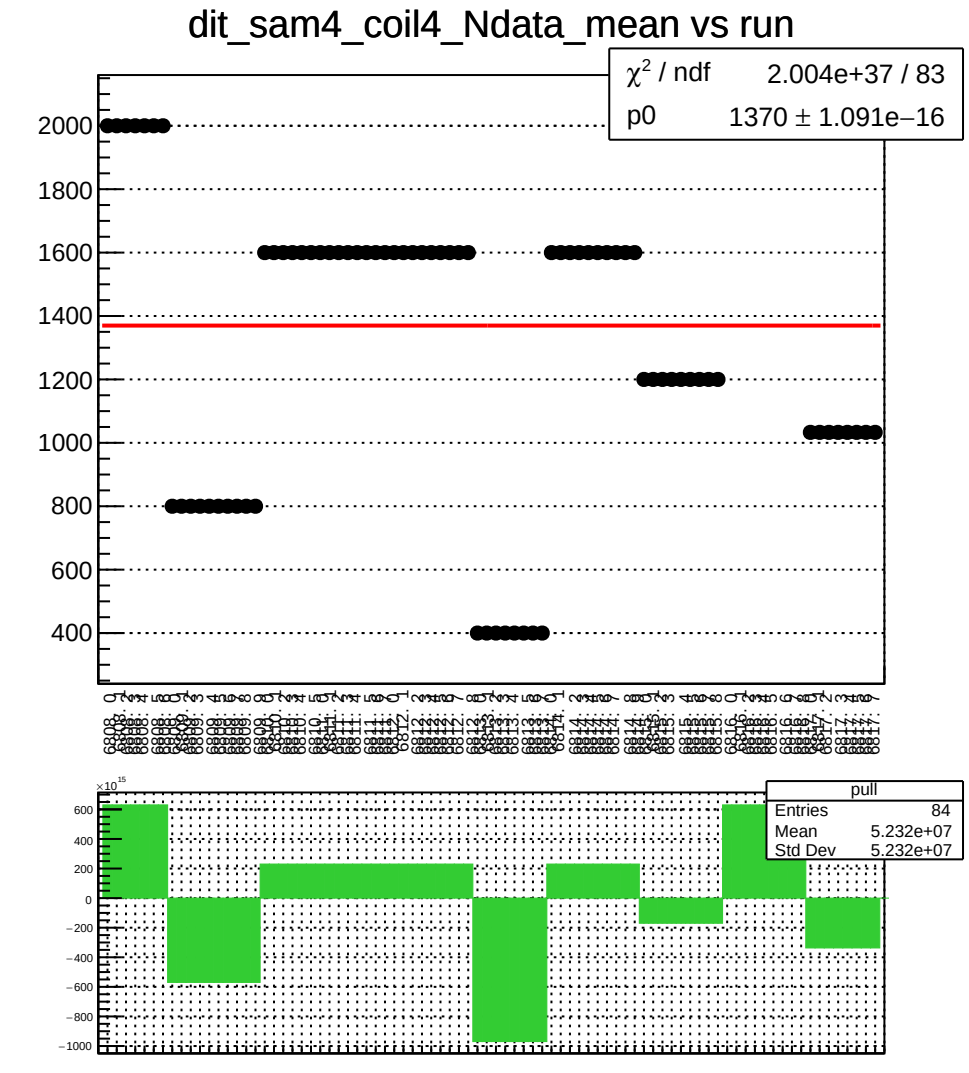

dit_sam3_coil4_Ndata_mean vs run
χ² / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

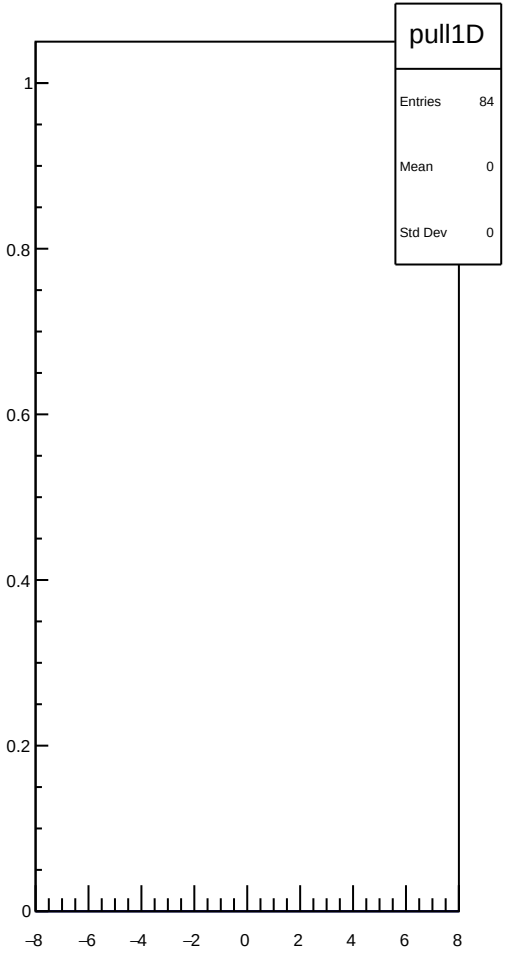

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

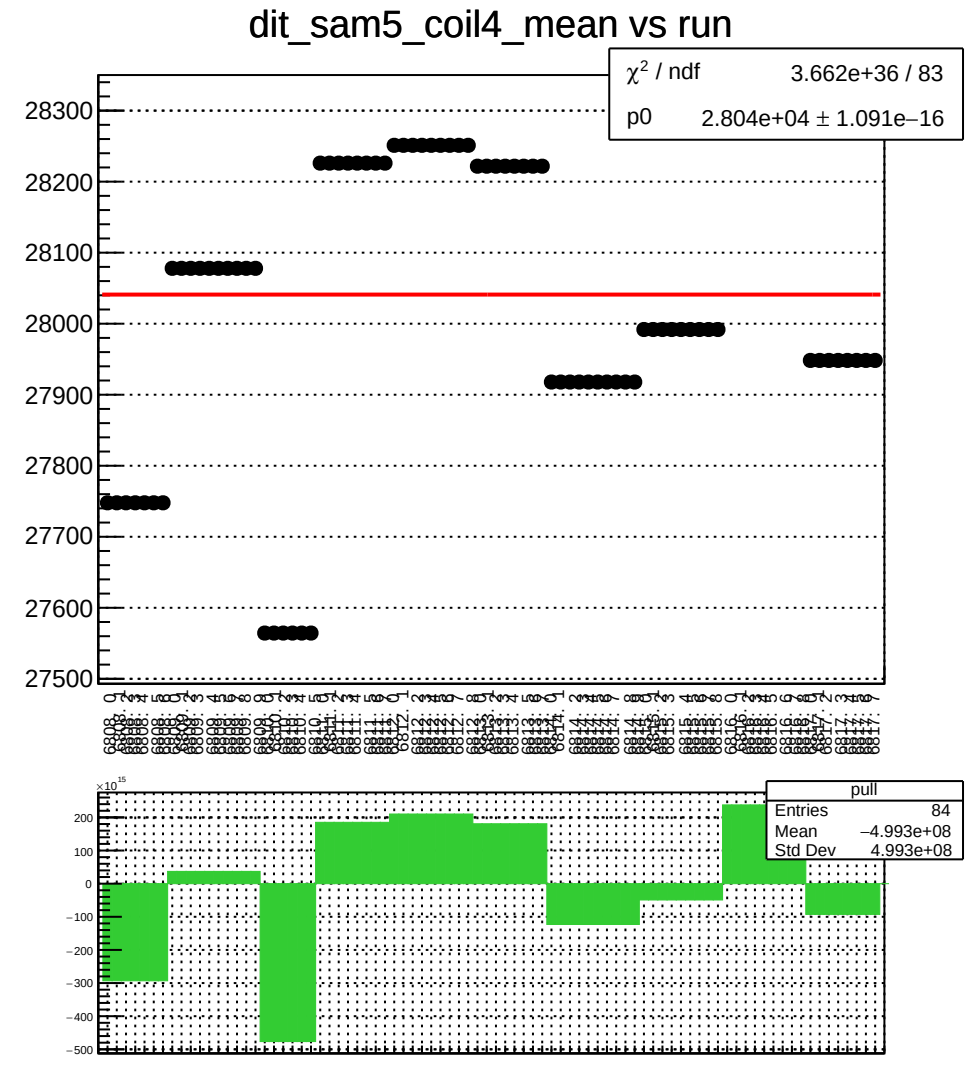

dit_sam4_coil4_mean vs run
χ² / ndf 4.763e+37 / 83
p0 4.507e+04 ± 1.091e−16
46500
46000
45500
45000
44500
44000
×10¹⁵
1500
1000
500
0
−500
pull
Entries 84
Mean 2.064e+08
Std Dev 2.064e+08

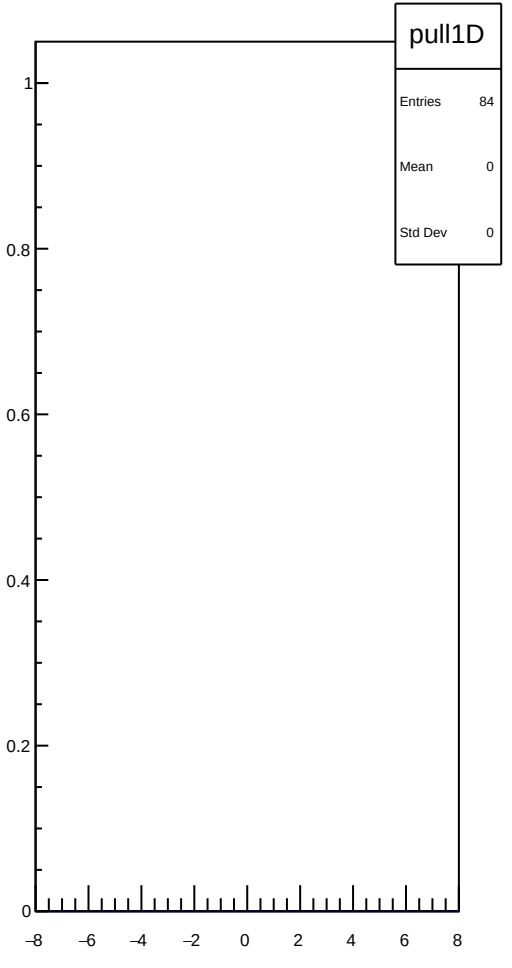

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

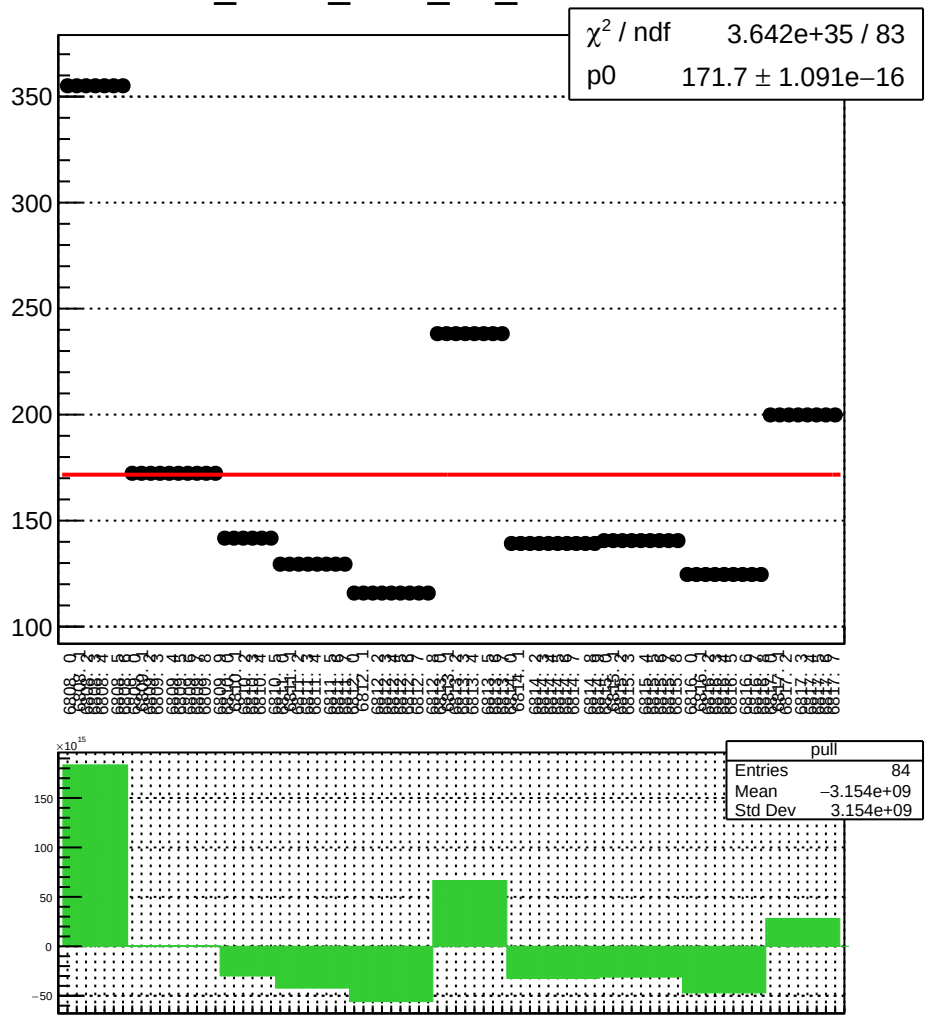

dit_sam4_coil4_err_mean vs run
χ² / ndf 1.371e+36 / 83
p0 607 ± 1.091e−16
pull
Entries 84
Mean −1.723e+08
Std Dev 1.723e+08
pull1D
Entries 84
Mean 0
Std Dev 0

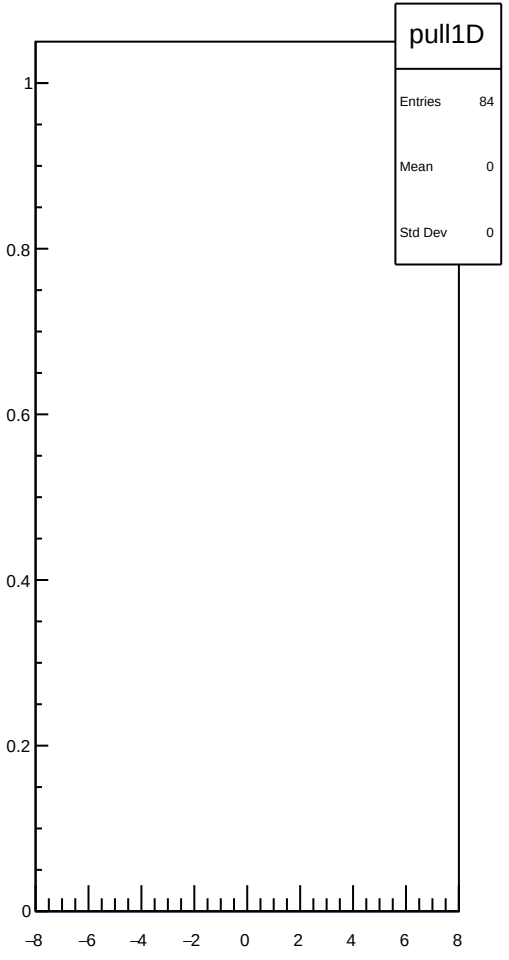

dit_sam4_coil4_Ndata_mean vs run
χ² / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07

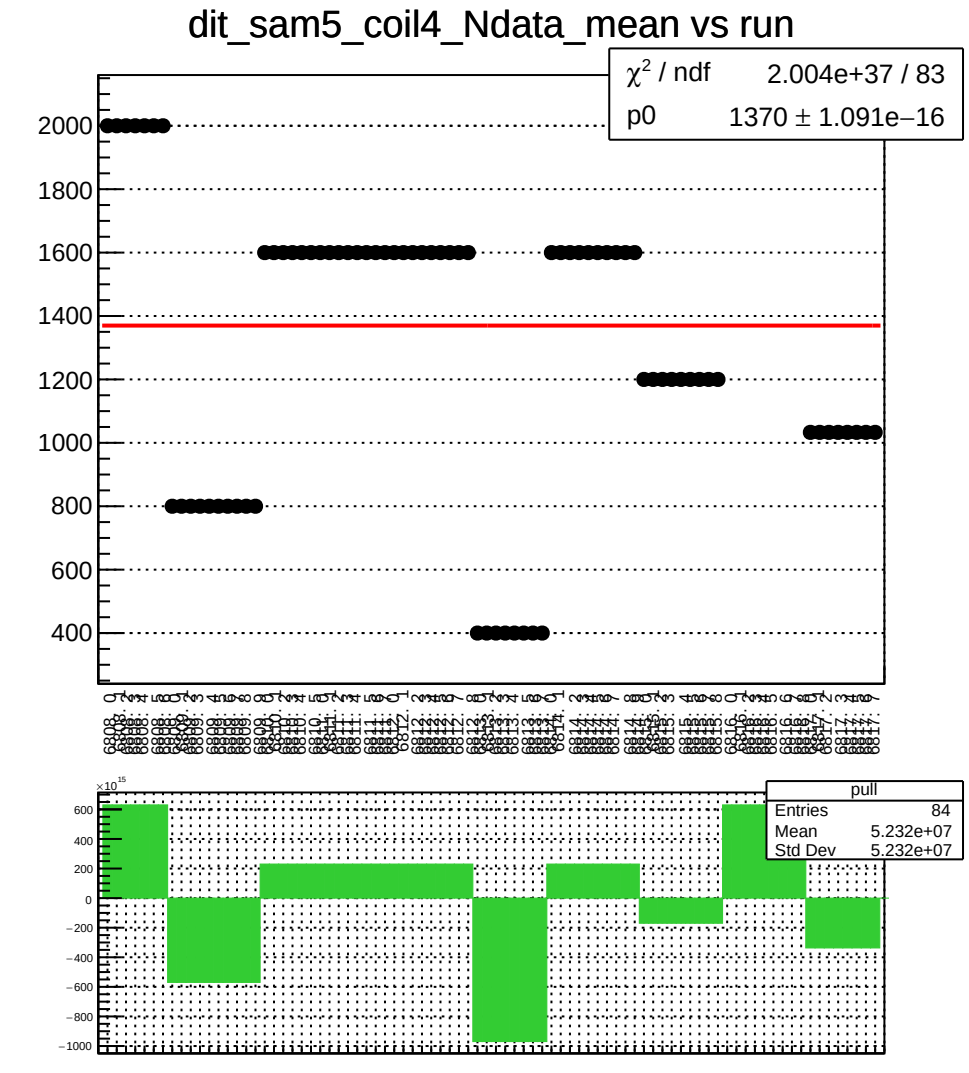

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

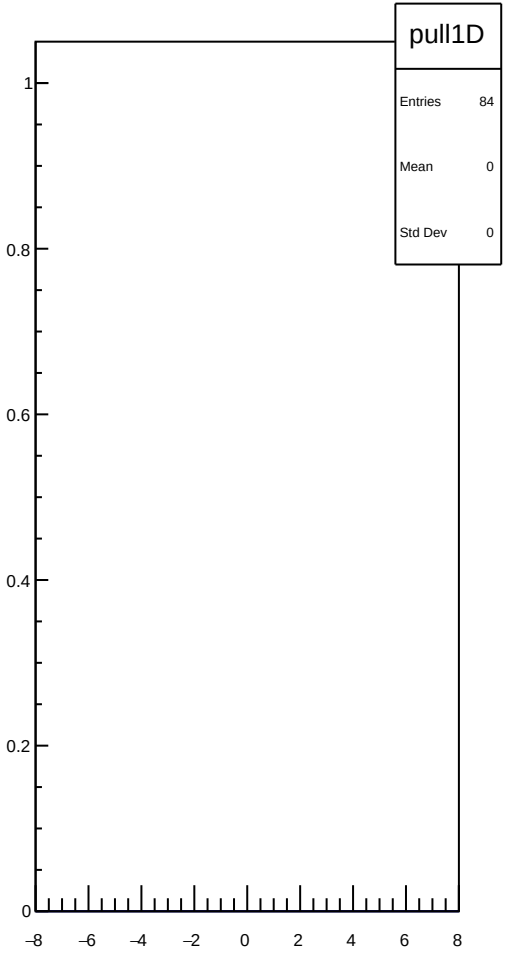

dit_sam5_coil4_mean vs run
χ² / ndf 3.662e+36 / 83
p0 2.804e+04 ± 1.091e−16
28300
28200
28100
28000
27900
27800
27700
27600
27500
×10¹⁵
200
100
0
−100
−200
−300
−400
−500
pull
Entries 84
Mean −4.993e+08
Std Dev 4.993e+08

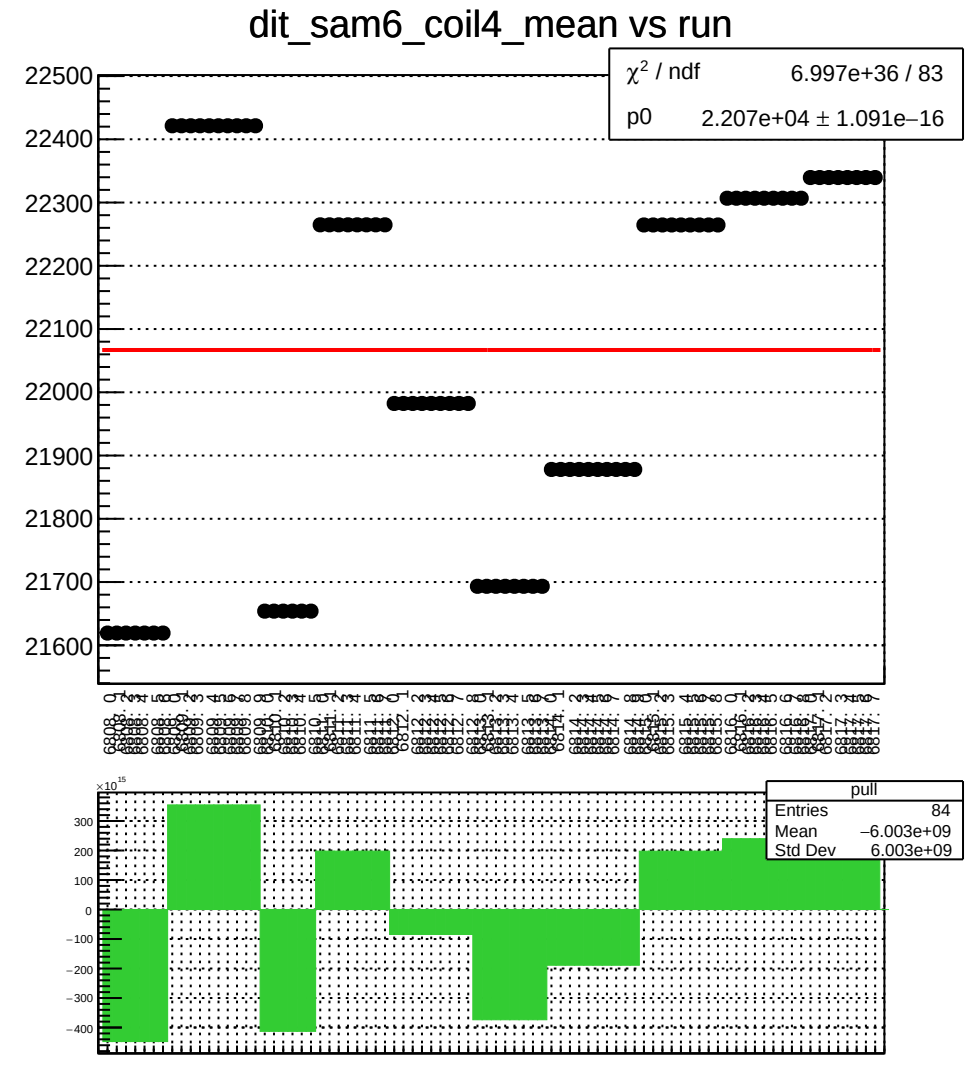

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

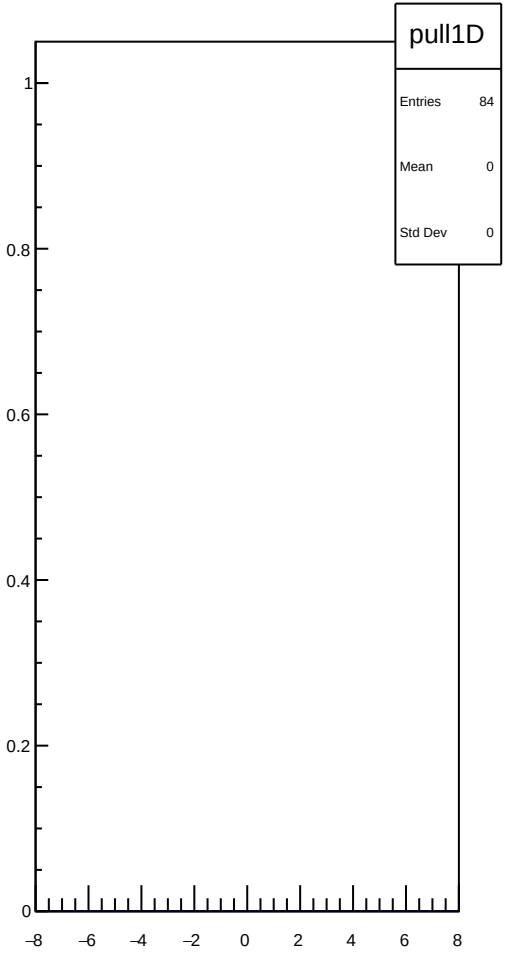

dit_sam5_coil4_err_mean vs run
χ² / ndf 3.642e+35 / 83
p0 171.7 ± 1.091e−16
350
300
250
200
150
100
pull
Entries 84
Mean −3.154e+09
Std Dev 3.154e+09
×10¹⁵
150
100
50
0
−50

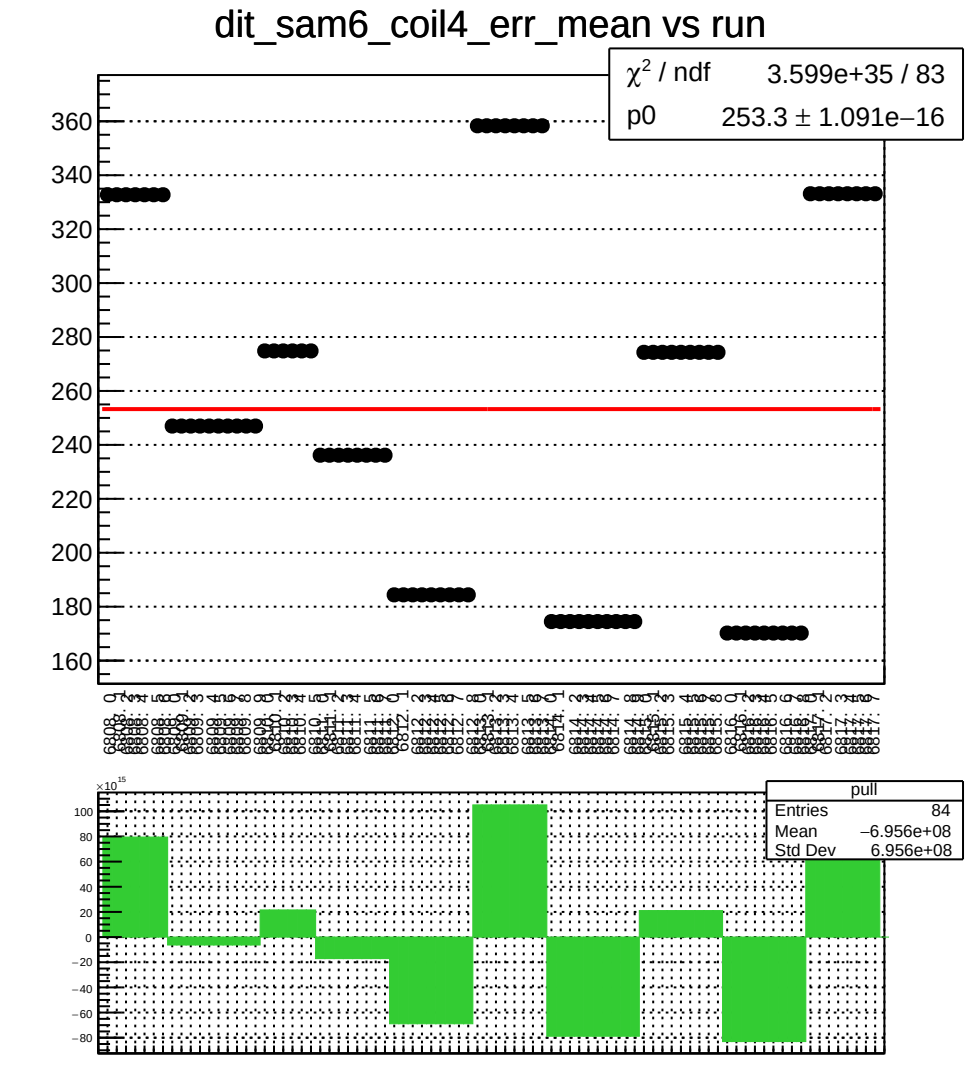

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

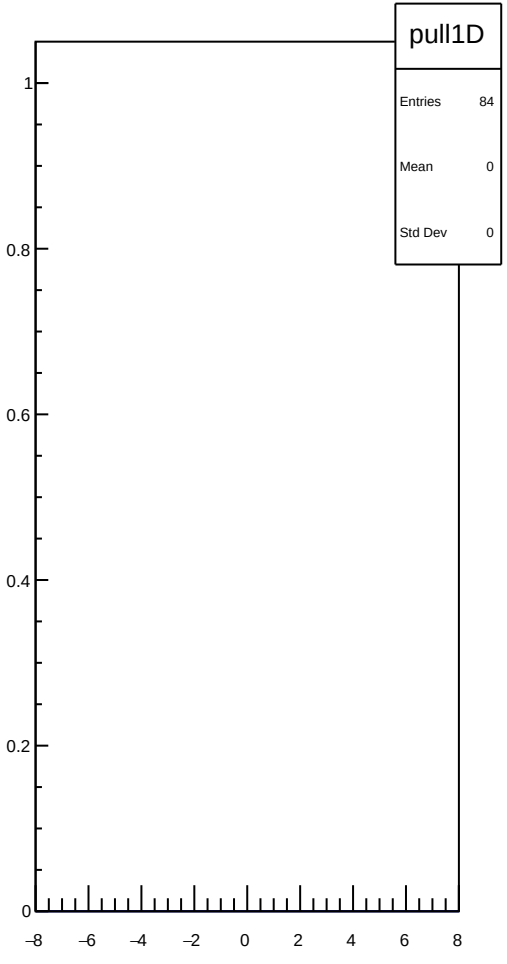

dit_sam5_coil4_Ndata_mean vs run
χ² / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

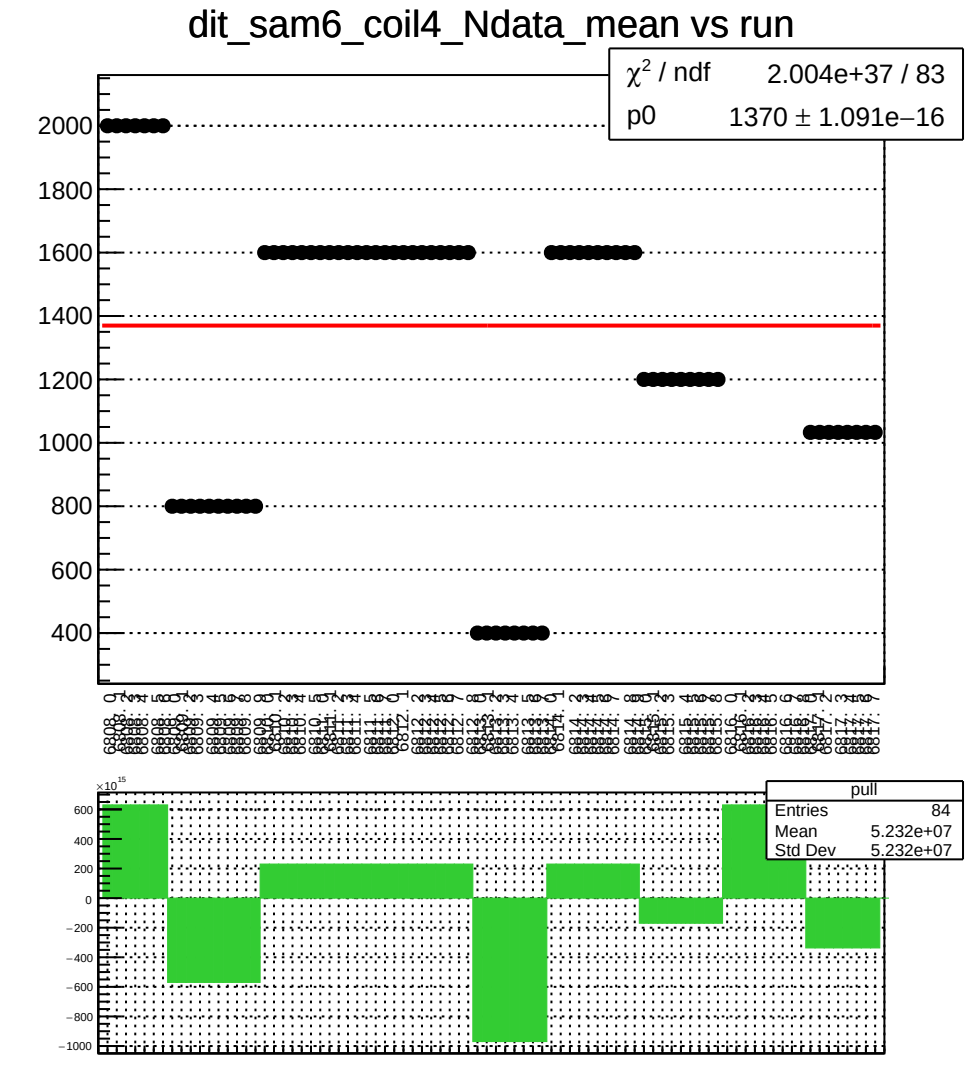

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

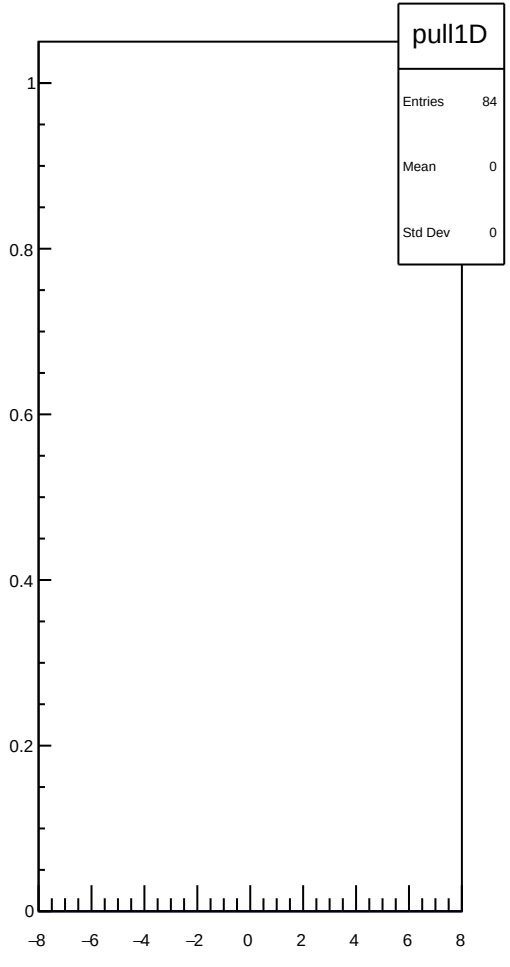

dit_sam6_coil4_mean vs run
χ² / ndf 6.997e+36 / 83
p0 2.207e+04 ± 1.091e−16
22500
22400
22300
22200
22100
22000
21900
21800
21700
21600
pull
Entries 84
Mean −6.003e+09
Std Dev 6.003e+09
×10¹⁵
300
200
100
0
−100
−200
−300
−400

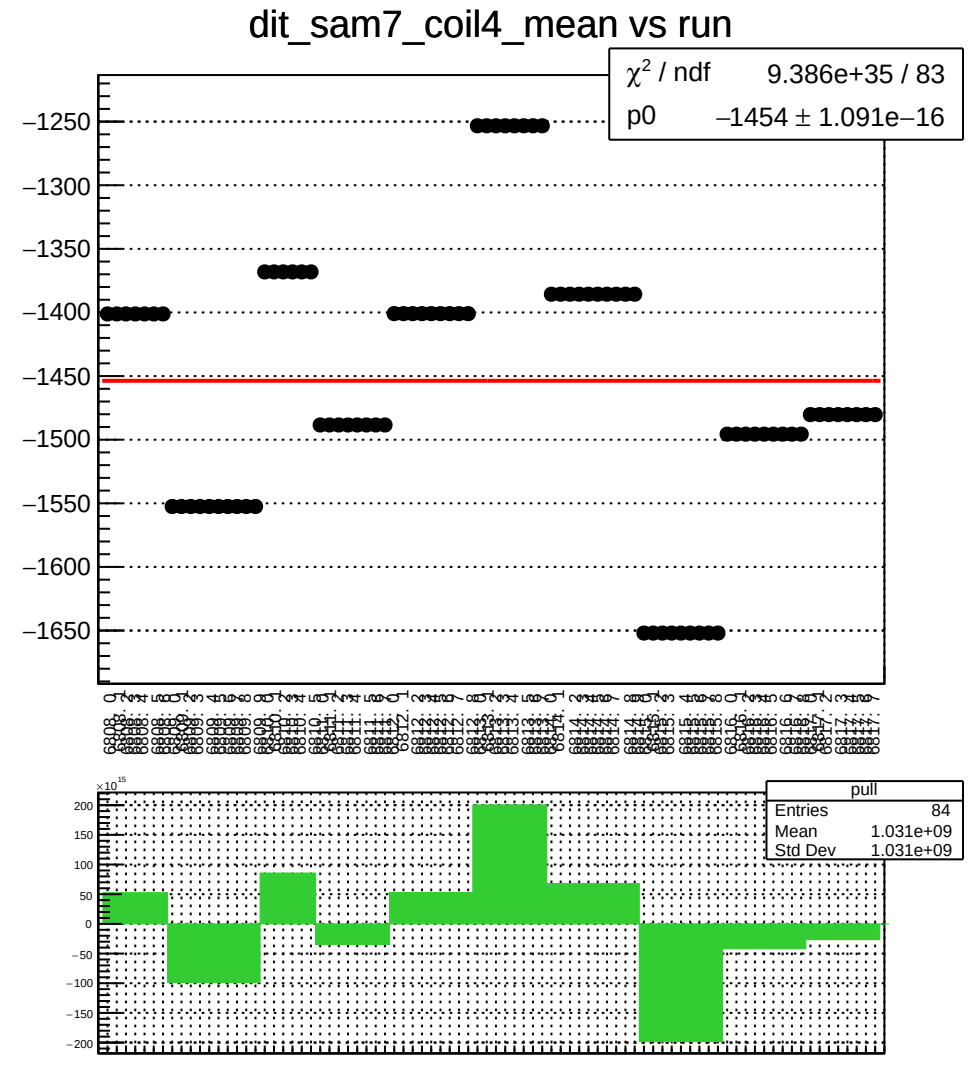

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

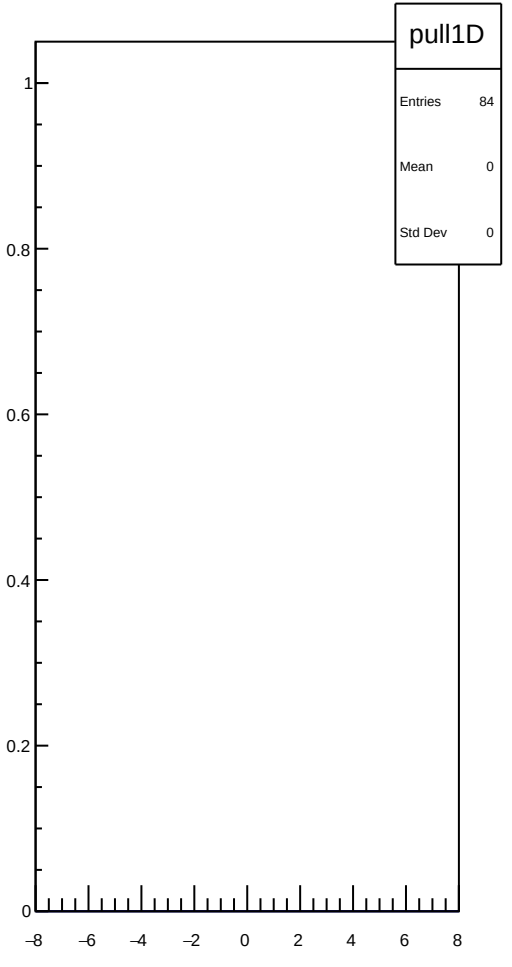

dit_sam6_coil4_err_mean vs run
χ² / ndf 3.599e+35 / 83
p0 253.3 ± 1.091e−16
pull
Entries 84
Mean −6.956e+08
Std Dev 6.956e+08

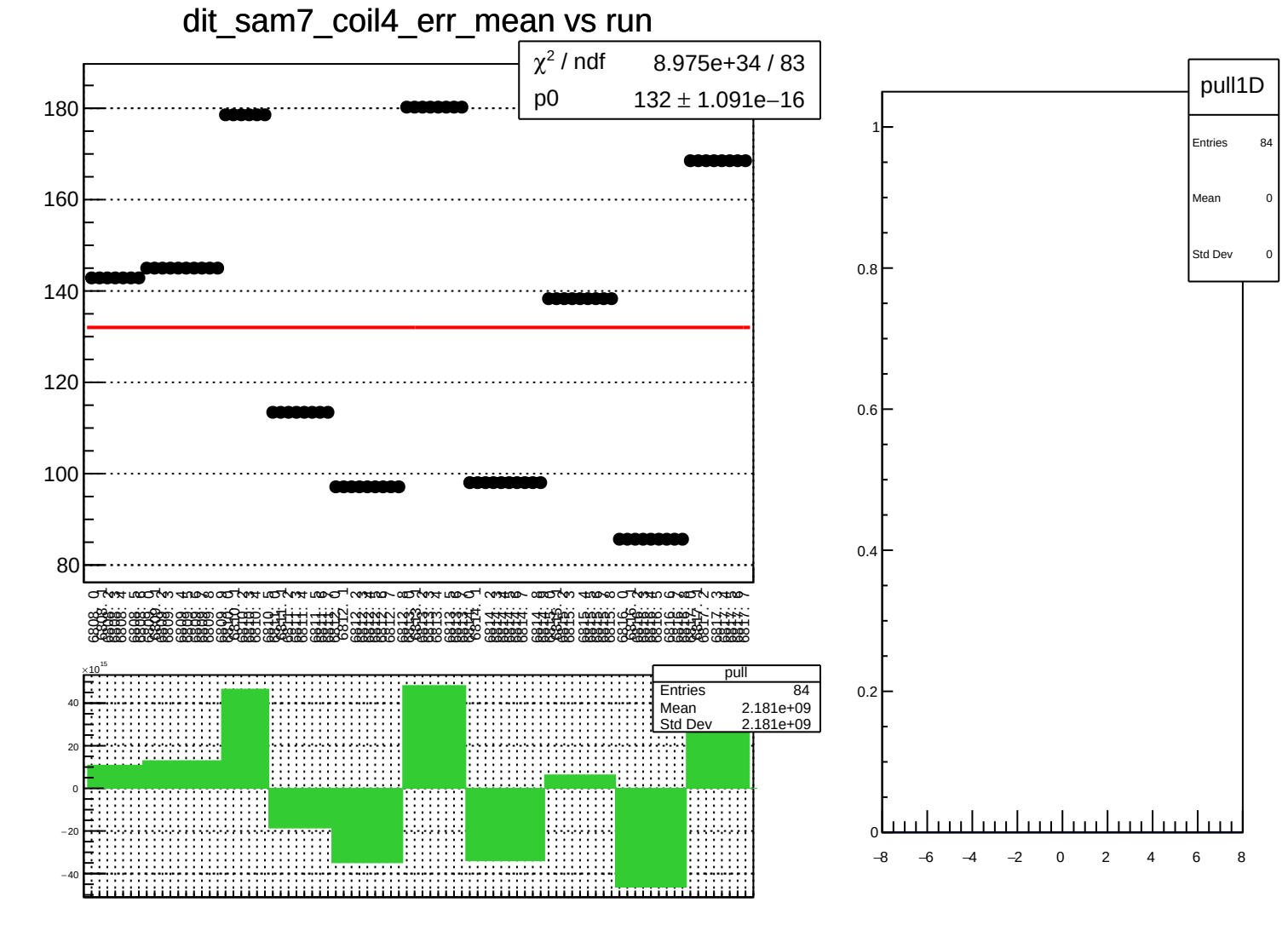

pull1D
Entries 84
Mean 0
Std Dev 0

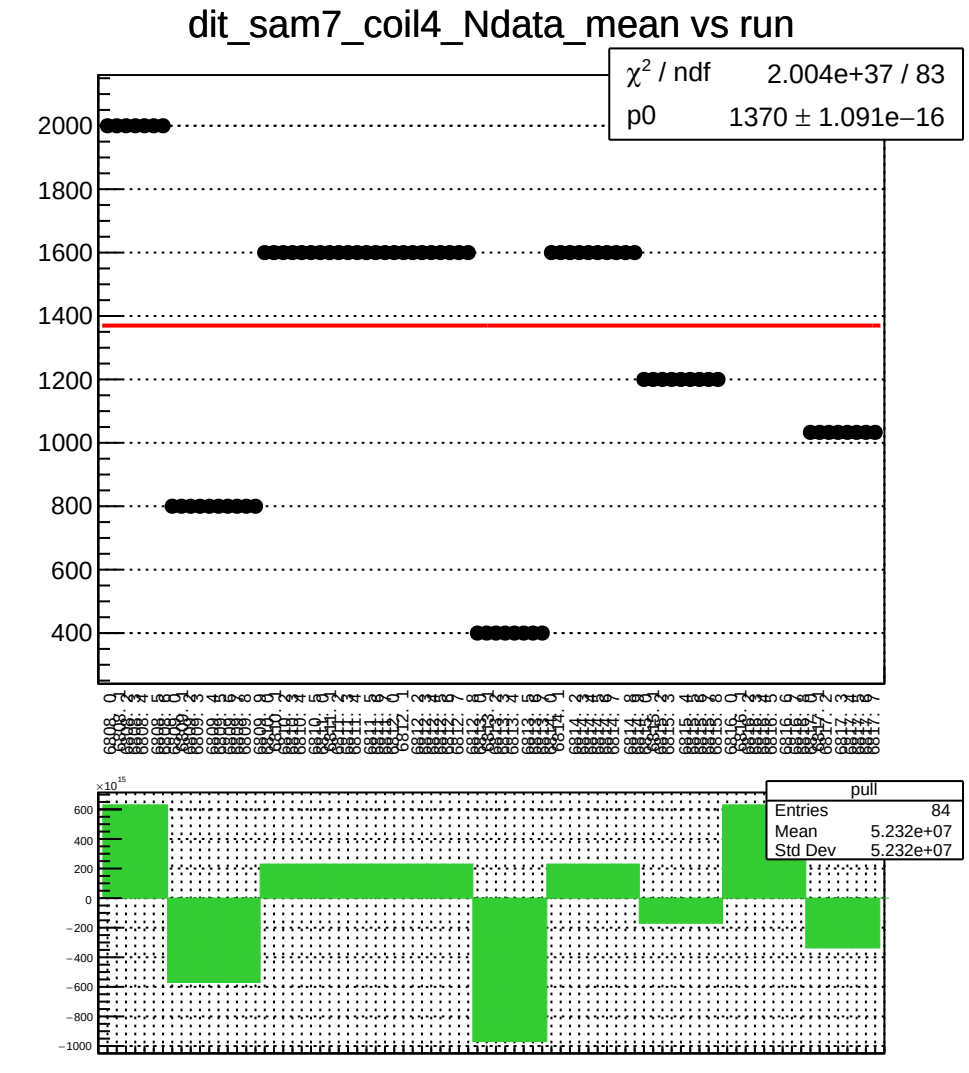

dit_sam6_coil4_Ndata_mean vs run
χ² / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07

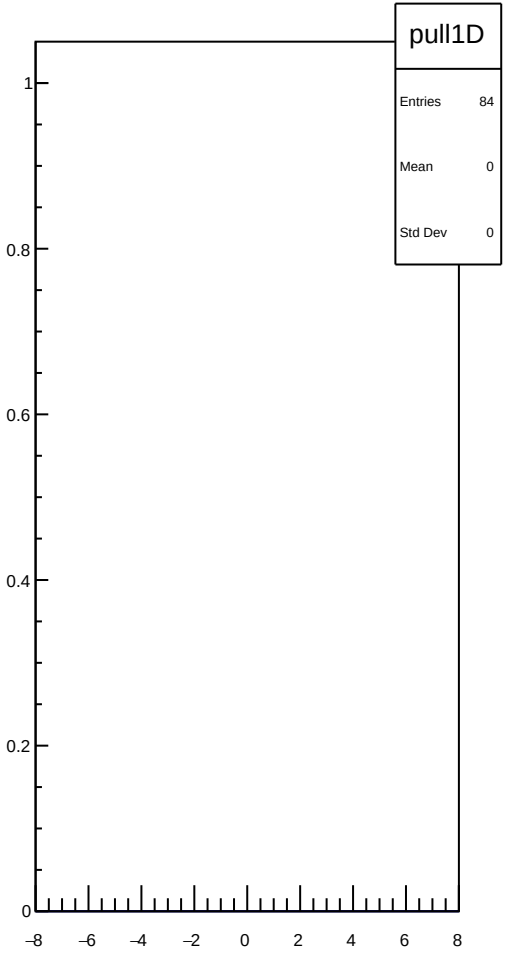

pull1D
Entries 84
Mean 0
Std Dev 0

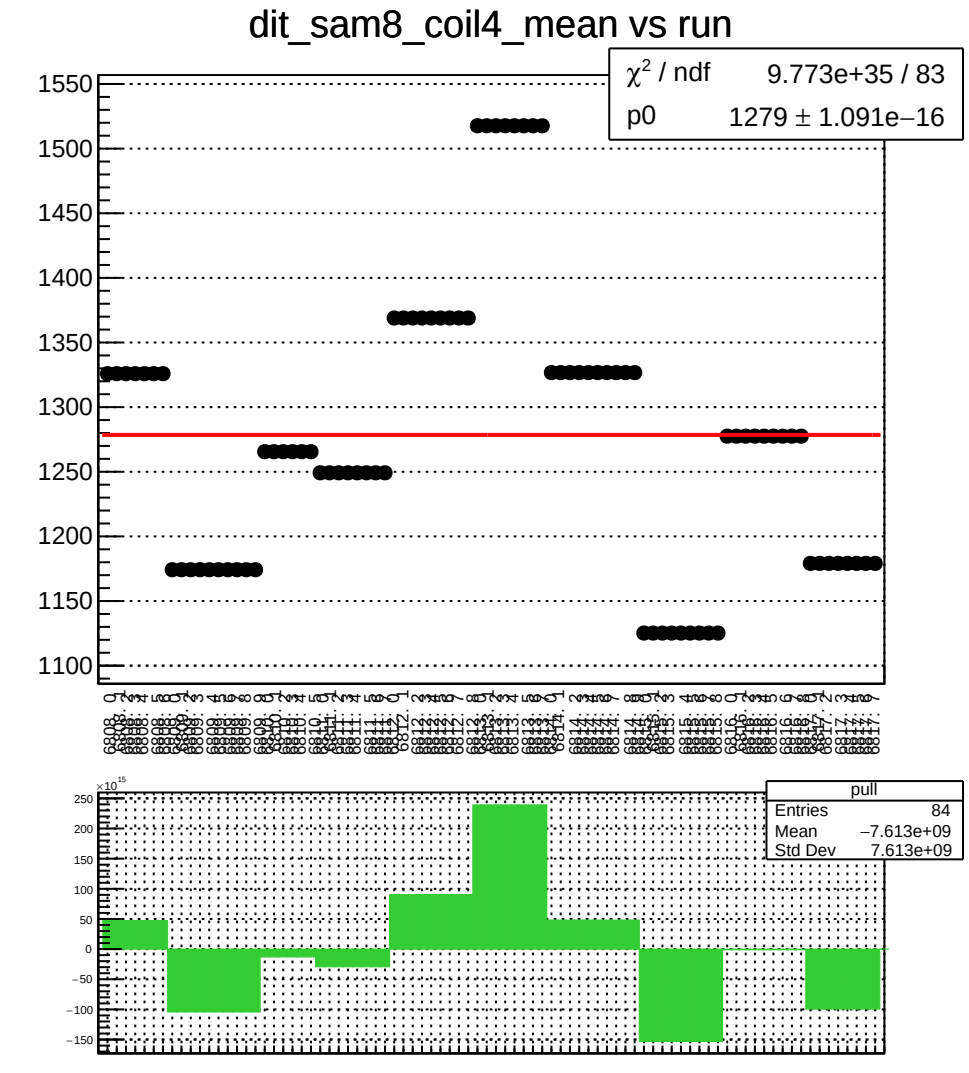

dit_sam7_coil4_mean vs run
χ² / ndf 9.386e+35 / 83
p0 −1454 ± 1.091e−16
−1250
−1300
−1350
−1400
−1450
−1500
−1550
−1600
−1650
pull
Entries 84
Mean 1.031e+09
Std Dev 1.031e+09
×10¹⁵
200
150
100
50
0
−50
−100
−150
−200

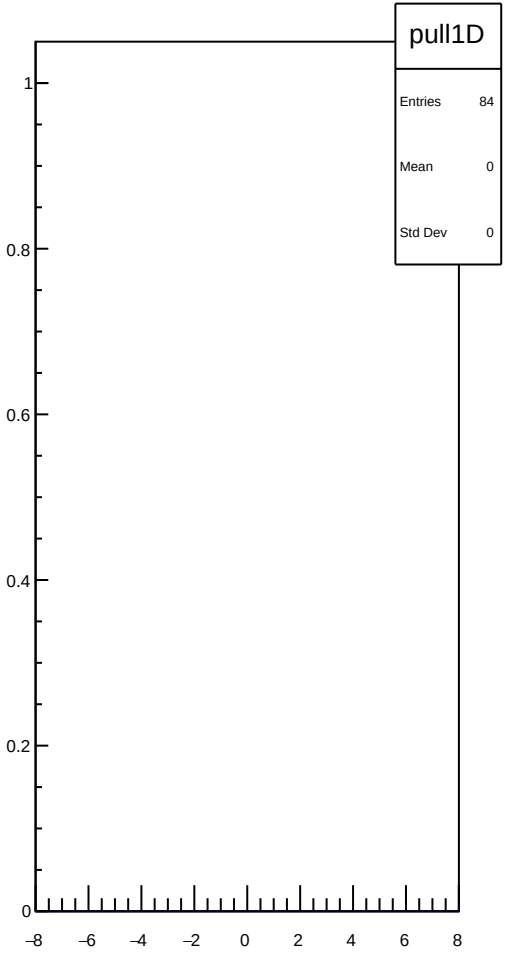

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

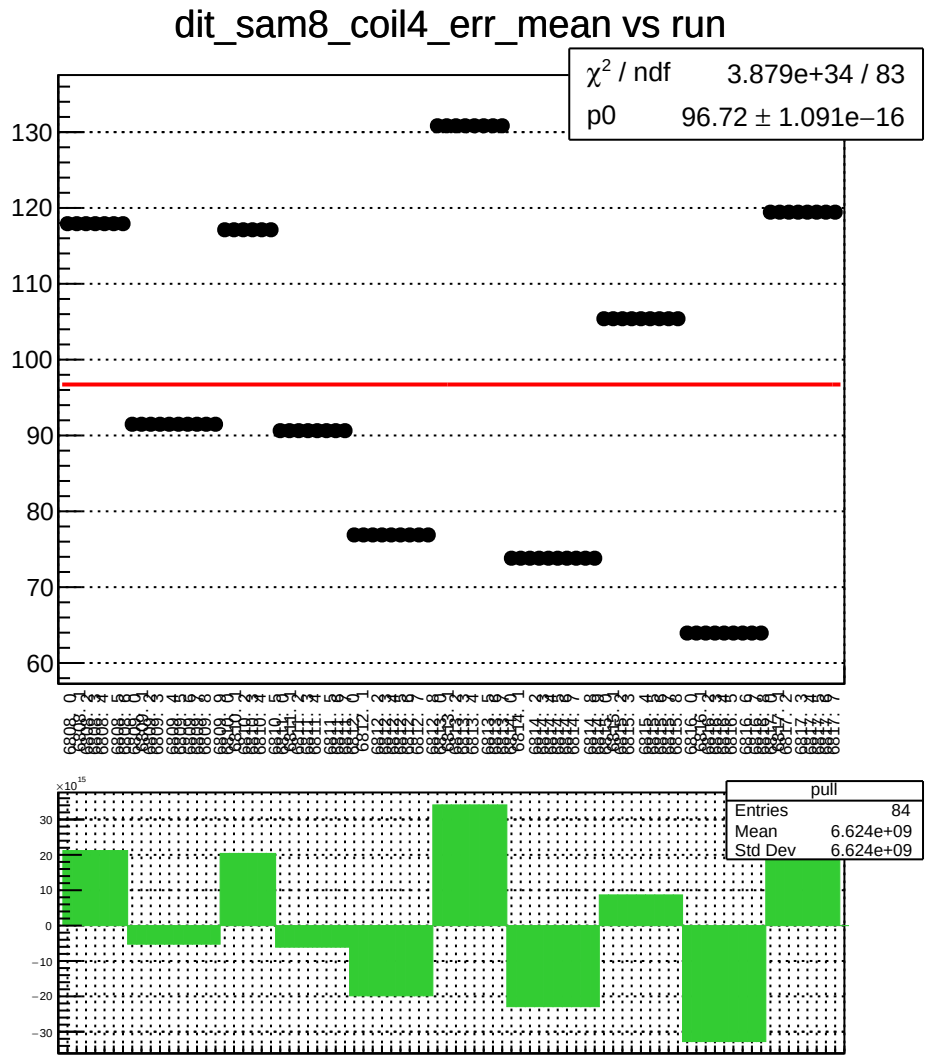

dit_sam7_coil4_err_mean vs run
χ² / ndf 8.975e+34 / 83
p0 132 ± 1.091e−16
180
160
140
120
100
80
pull
Entries 84
Mean 2.181e+09
Std Dev 2.181e+09
×10¹⁵
40
20
0
−20
−40
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

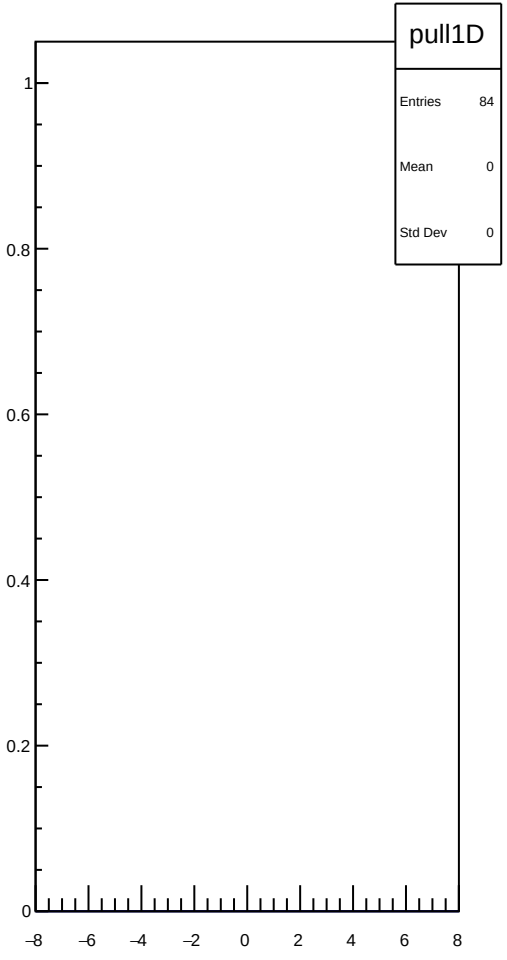

dit_sam7_coil4_Ndata_mean vs run
χ² / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

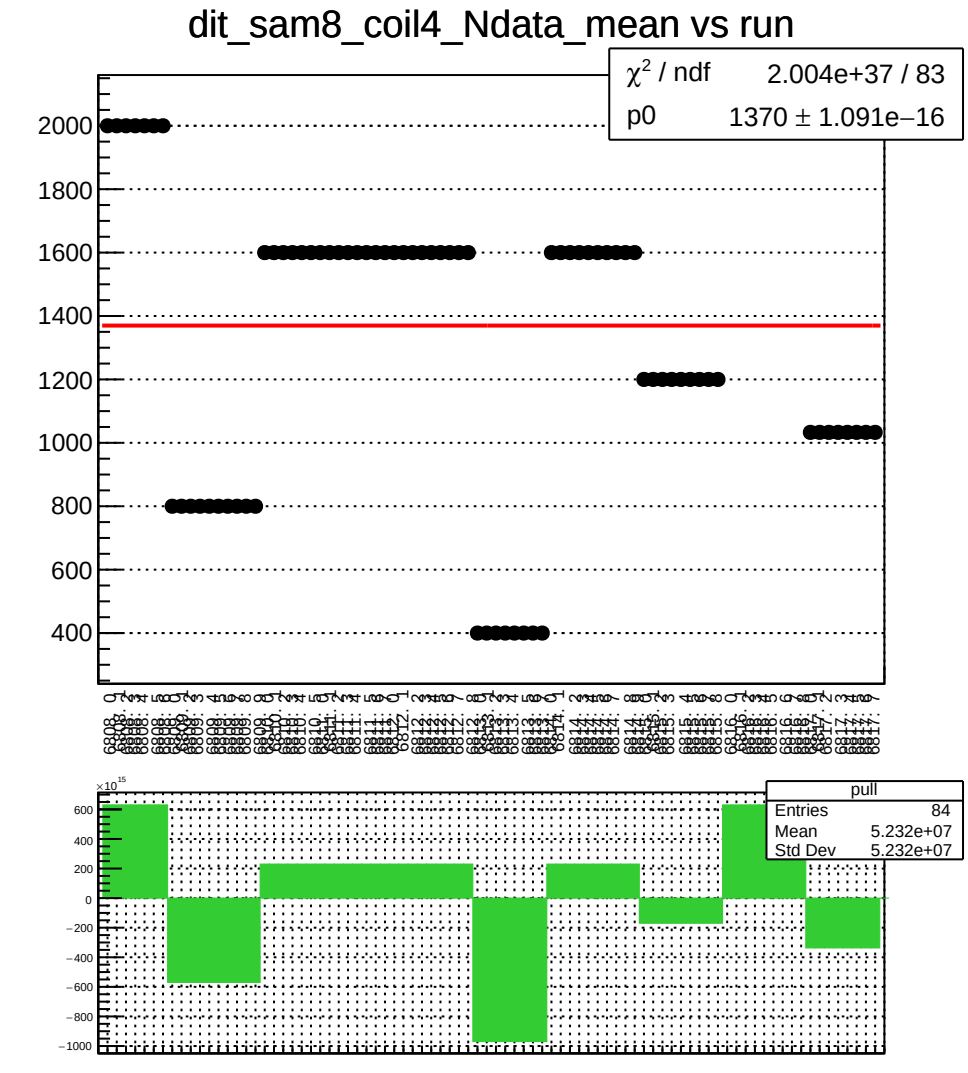

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

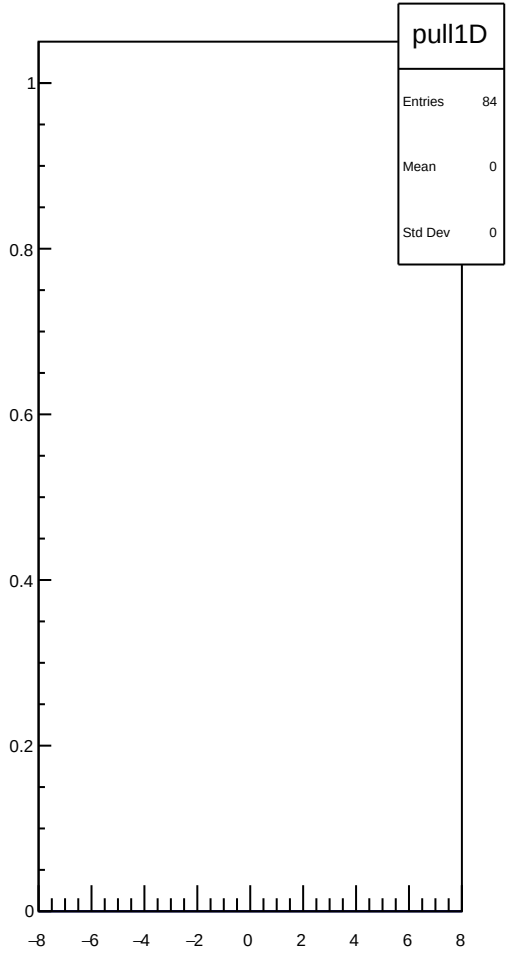

dit_sam8_coil4_mean vs run
χ² / ndf 9.773e+35 / 83
p0 1279 ± 1.091e−16
pull
Entries 84
Mean −7.613e+09
Std Dev 7.613e+09
×10¹⁵

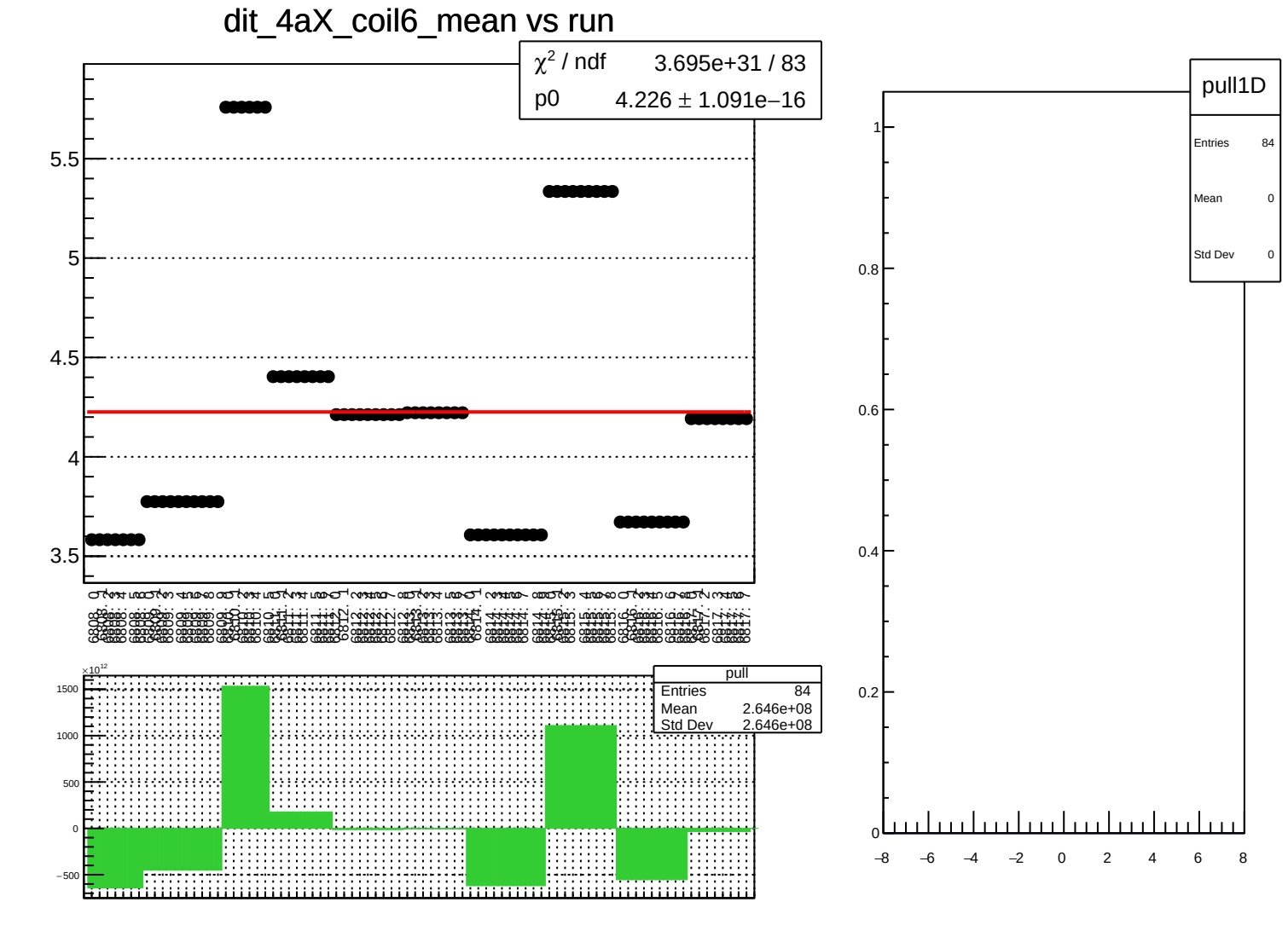

pull1D
Entries 84
Mean 0
Std Dev 0

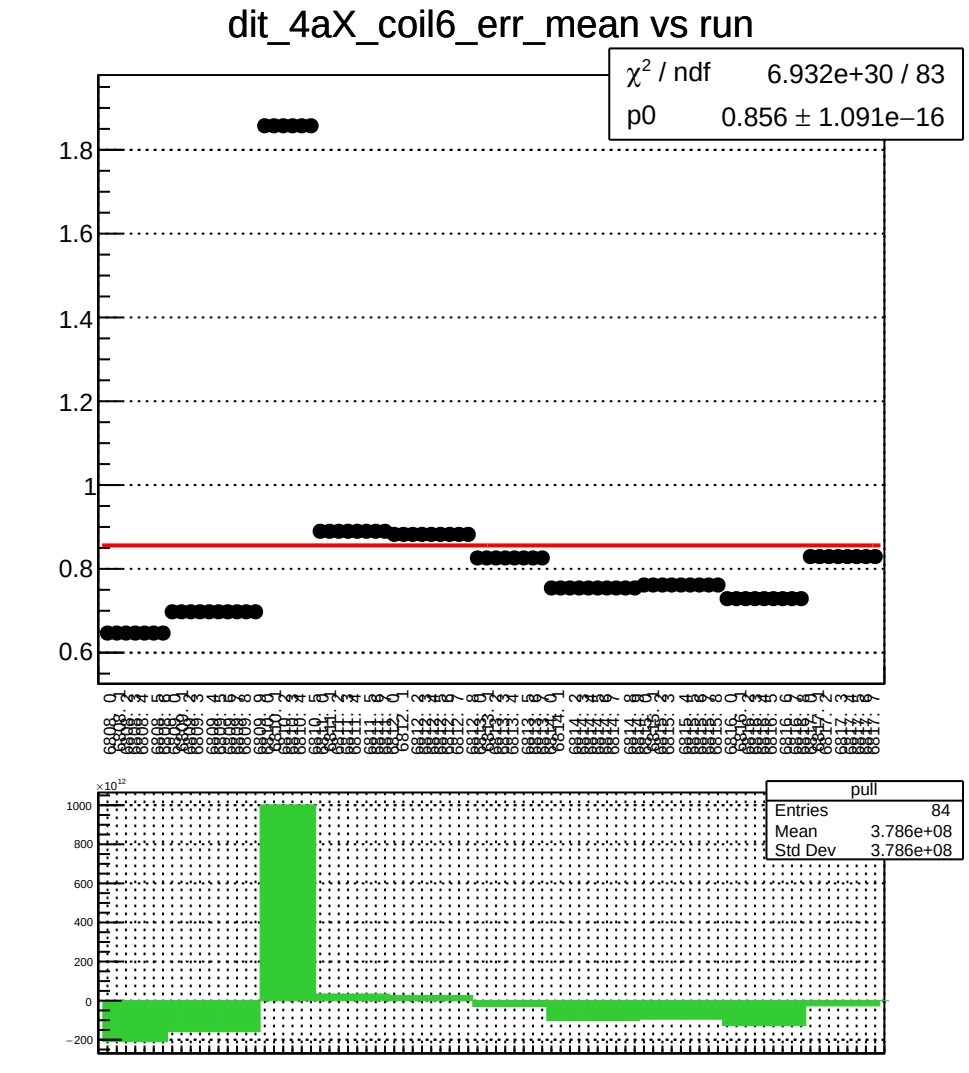

dit_sam8_coil4_err_mean vs run
χ² / ndf 3.879e+34 / 83
p0 96.72 ± 1.091e−16
130
120
110
100
90
80
70
60
×10¹⁵
30
20
10
0
−10
−20
−30
pull
Entries 84
Mean 6.624e+09
Std Dev 6.624e+09

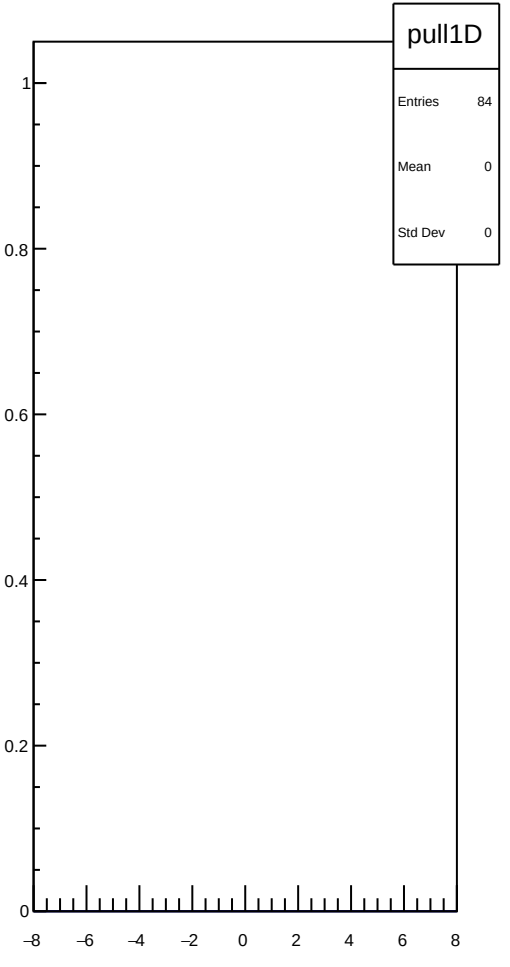

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

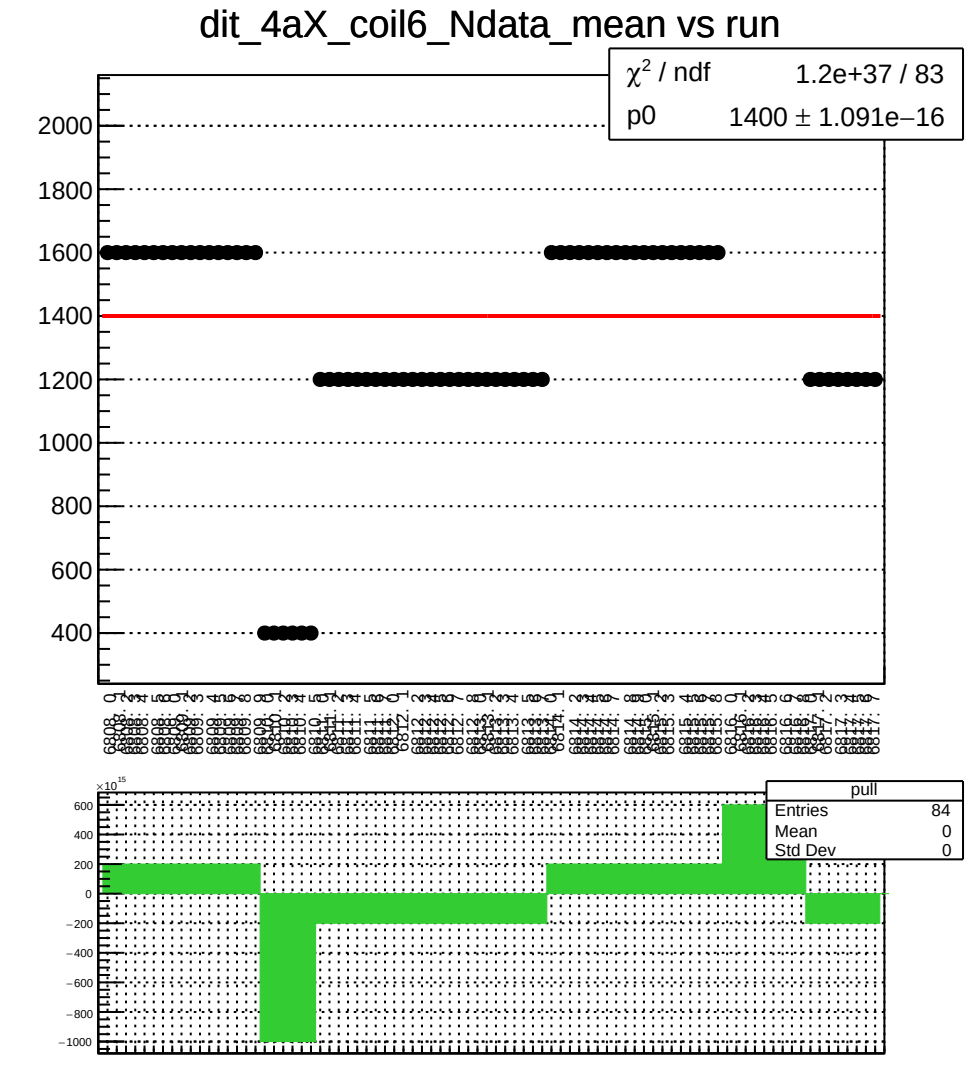

dit_sam8_coil4_Ndata_mean vs run
χ² / ndf 2.004e+37 / 83
p0 1370 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 5.232e+07
Std Dev 5.232e+07
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

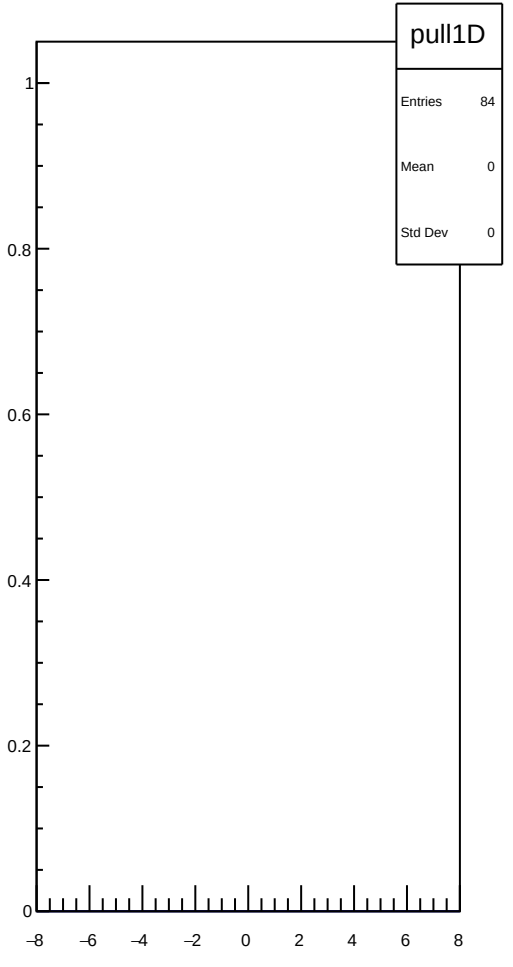

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

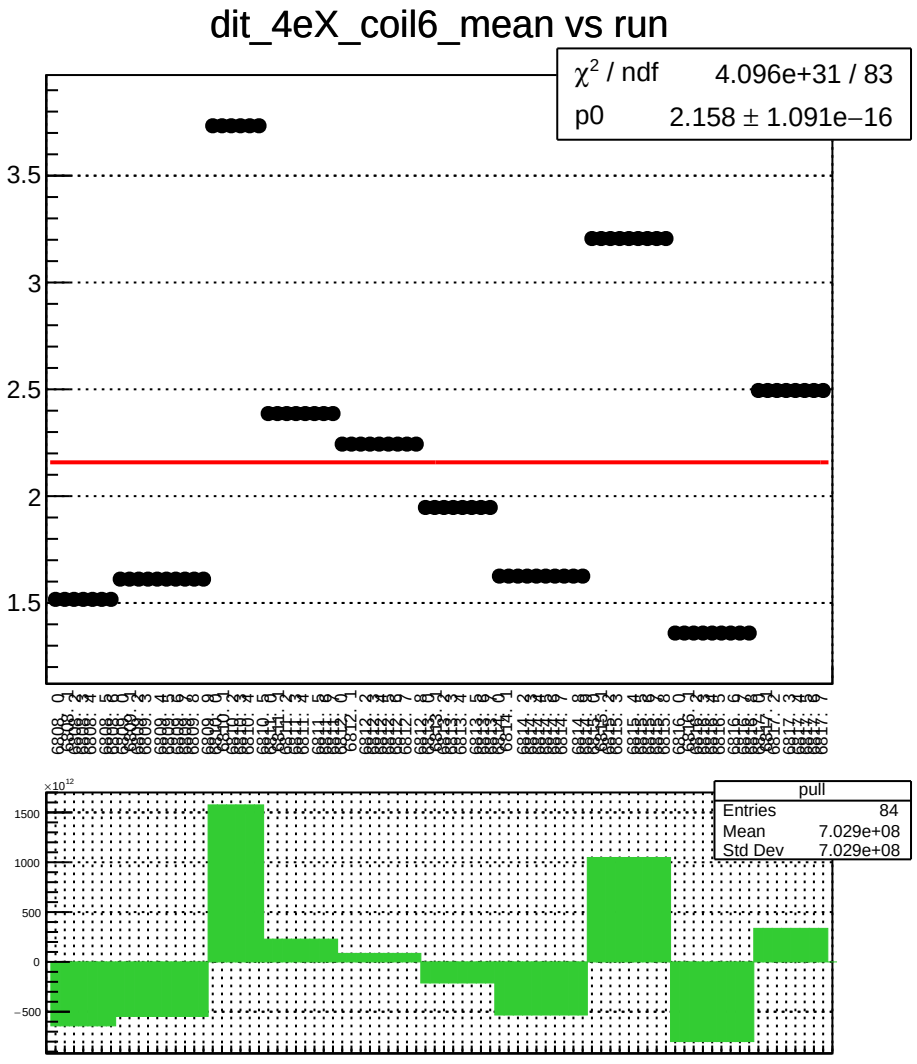

dit_4aX_coil6_mean vs run
χ² / ndf 3.695e+31 / 83
p0 4.226 ± 1.091e−16
5.5
5
4.5
4
3.5
×10¹²
1500
1000
500
0
−500
pull
Entries 84
Mean 2.646e+08
Std Dev 2.646e+08
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

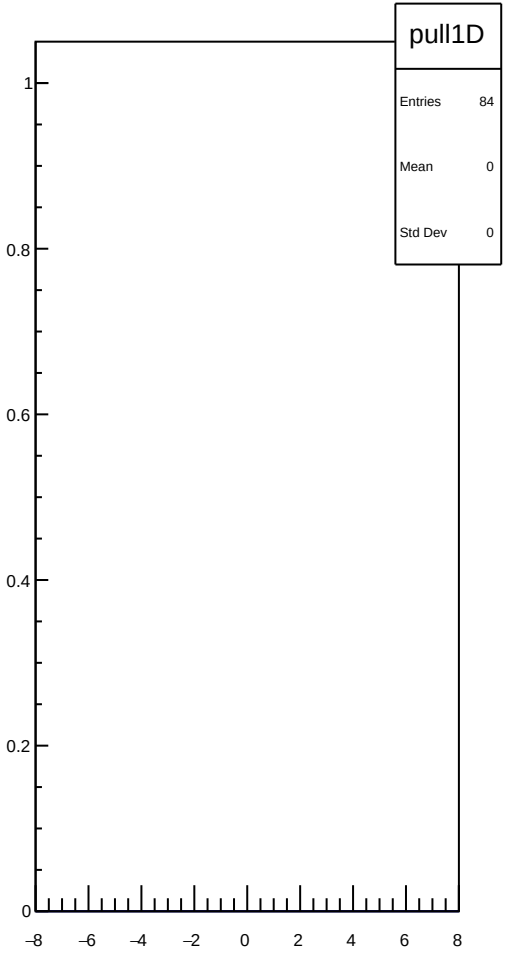

dit_4aX_coil6_err_mean vs run
χ² / ndf 6.932e+30 / 83
p0 0.856 ± 1.091e−16
pull
Entries 84
Mean 3.786e+08
Std Dev 3.786e+08
×10¹²

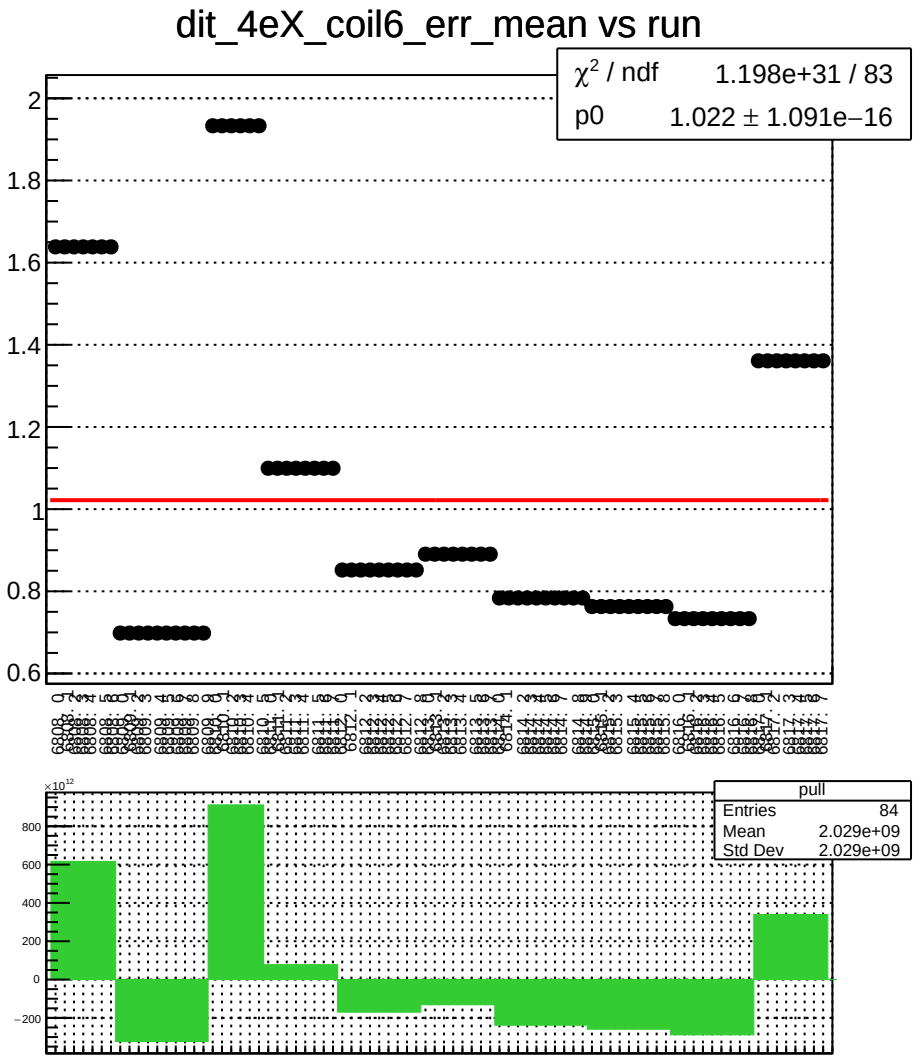

pull1D
Entries 84
Mean 0
Std Dev 0

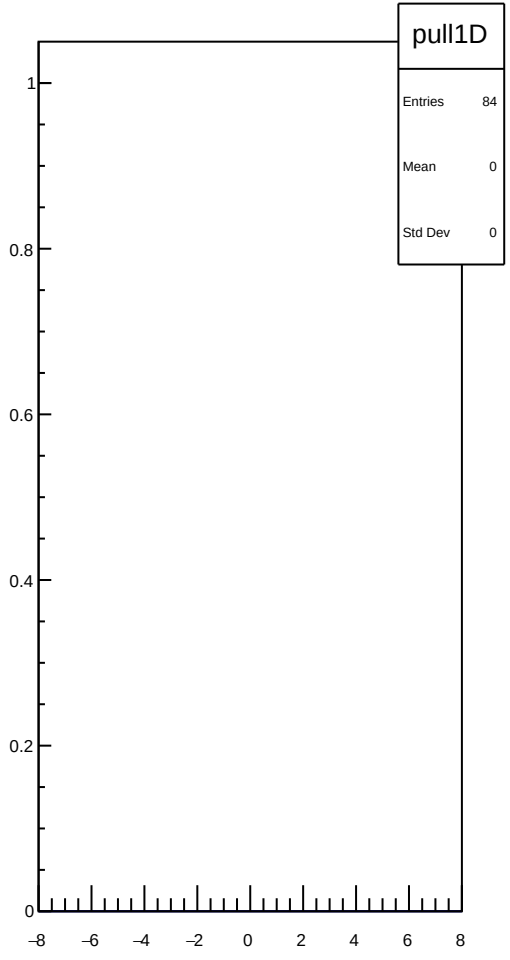

dit_4aX_coil6_Ndata_mean vs run
χ² / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 0
Std Dev 0
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

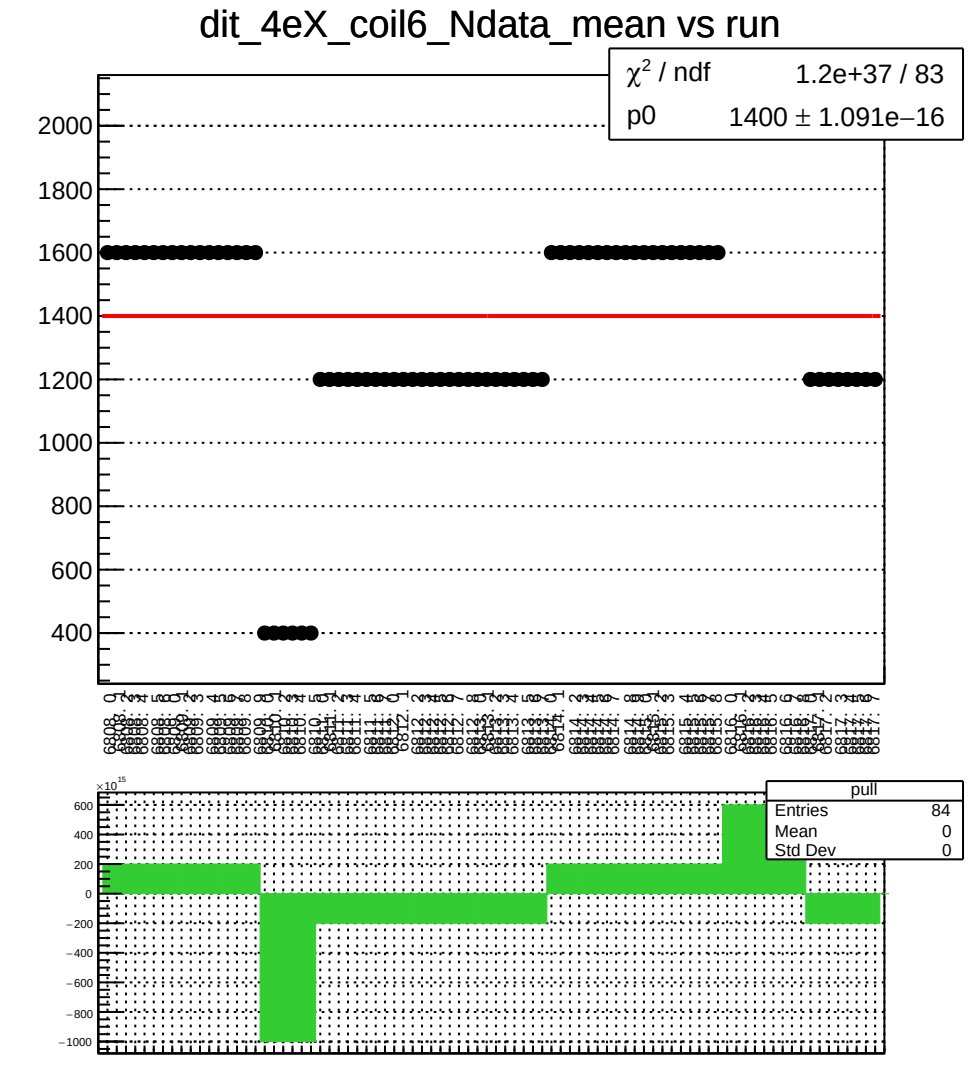

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

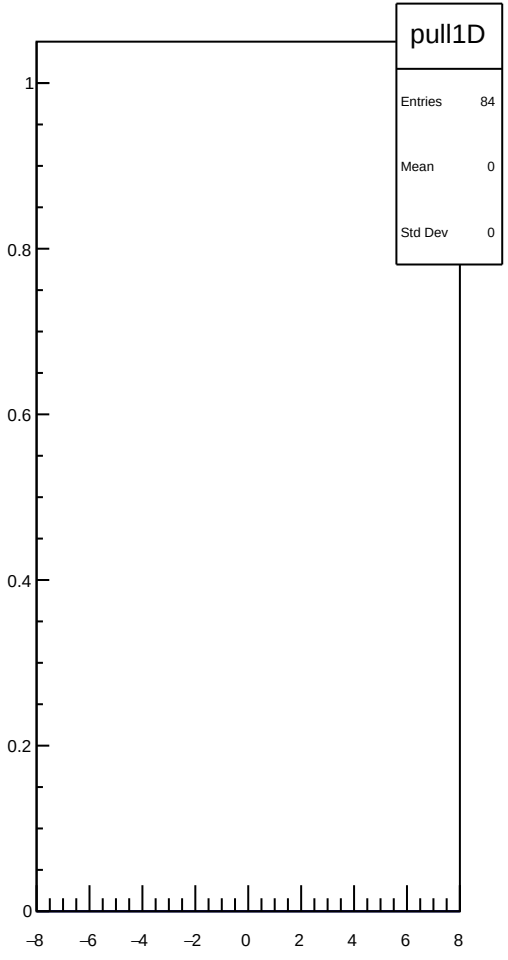

dit_4eX_coil6_mean vs run
χ^2 / ndf 4.096e+31 / 83
p0 2.158 ± 1.091e−16
3.5
3
2.5
2
1.5
pull
Entries 84
Mean 7.029e+08
Std Dev 7.029e+08
×10^12
1500
1000
500
0
−500

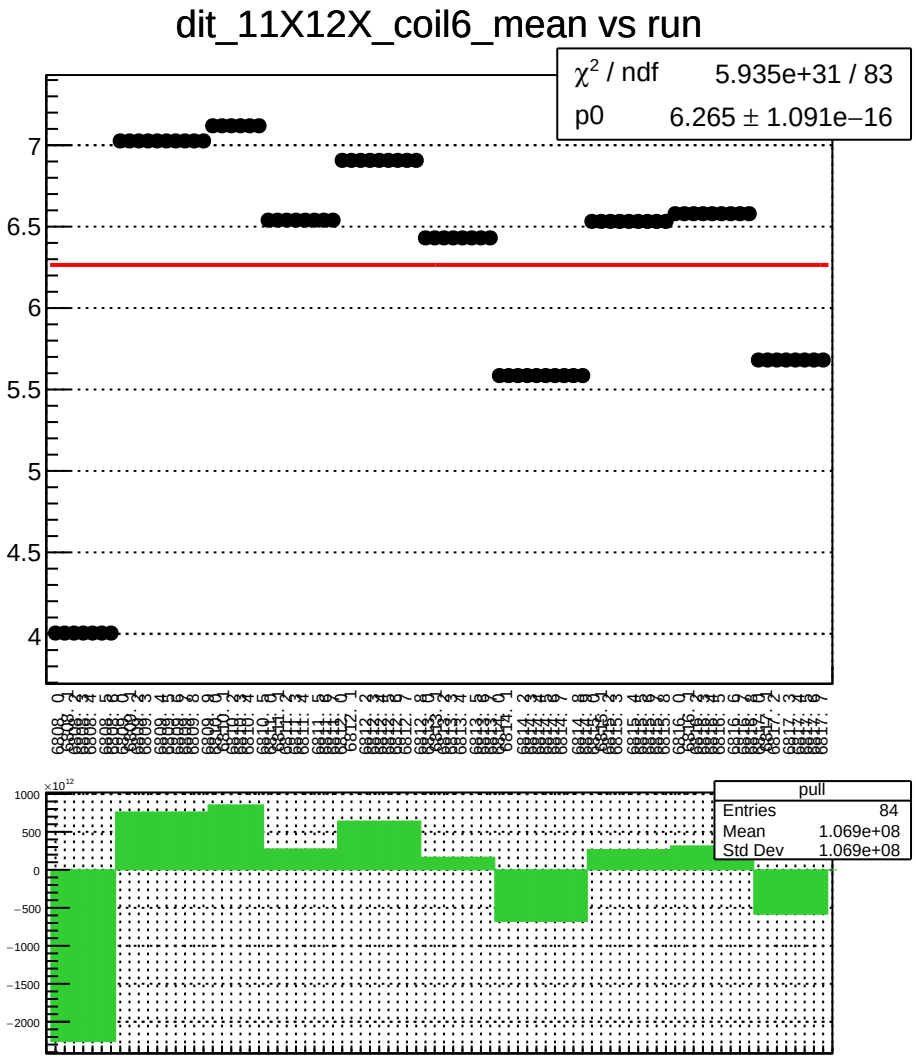

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

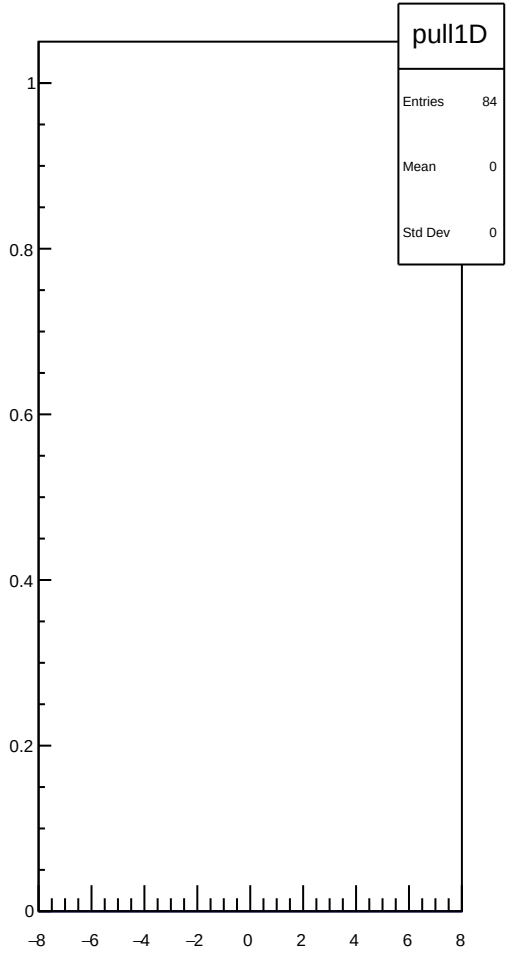

dit_4eX_coil6_err_mean vs run
χ² / ndf 1.198e+31 / 83
p0 1.022 ± 1.091e−16
pull
Entries 84
Mean 2.029e+09
Std Dev 2.029e+09

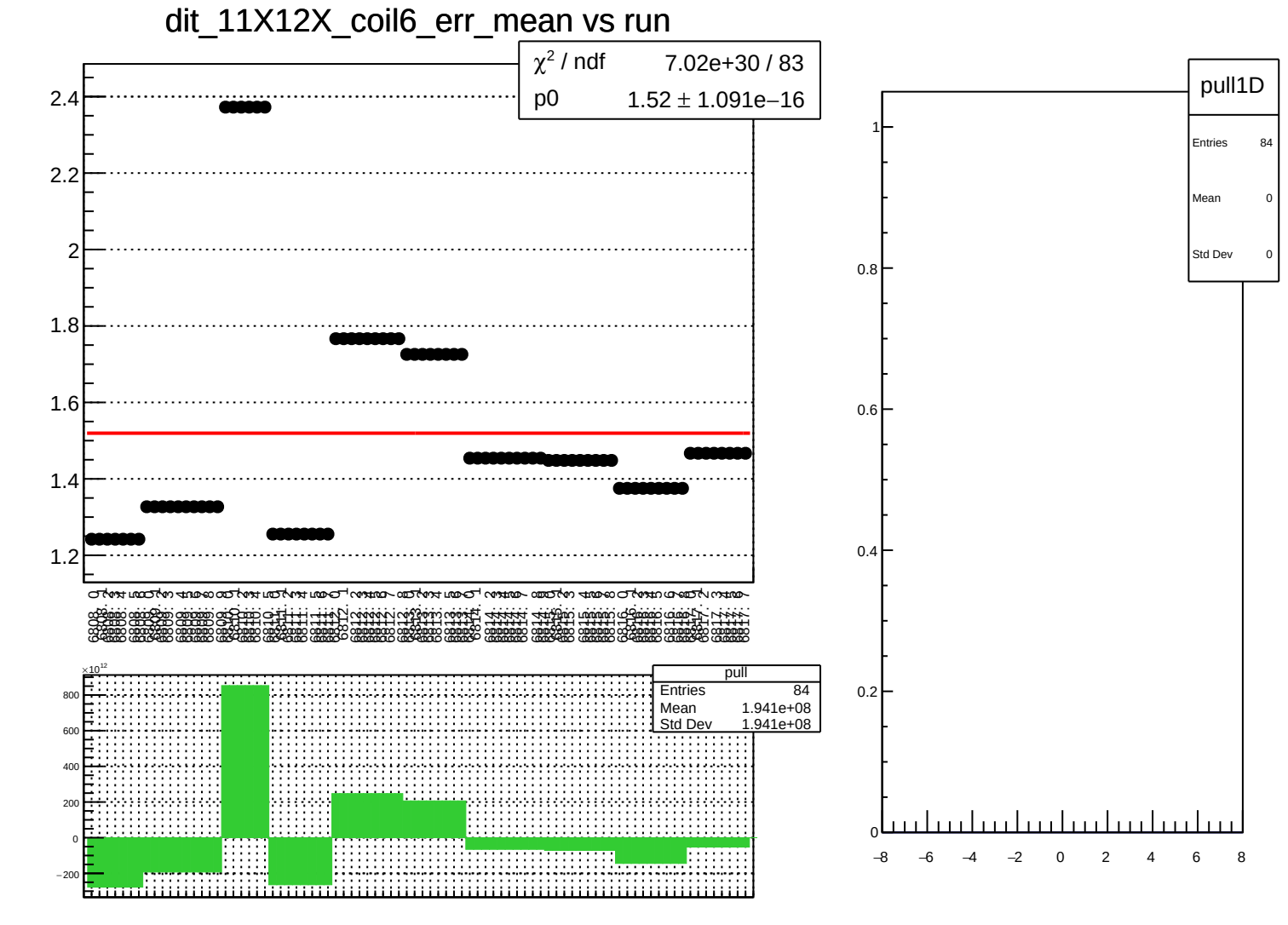

pull1D
Entries 84
Mean 0
Std Dev 0

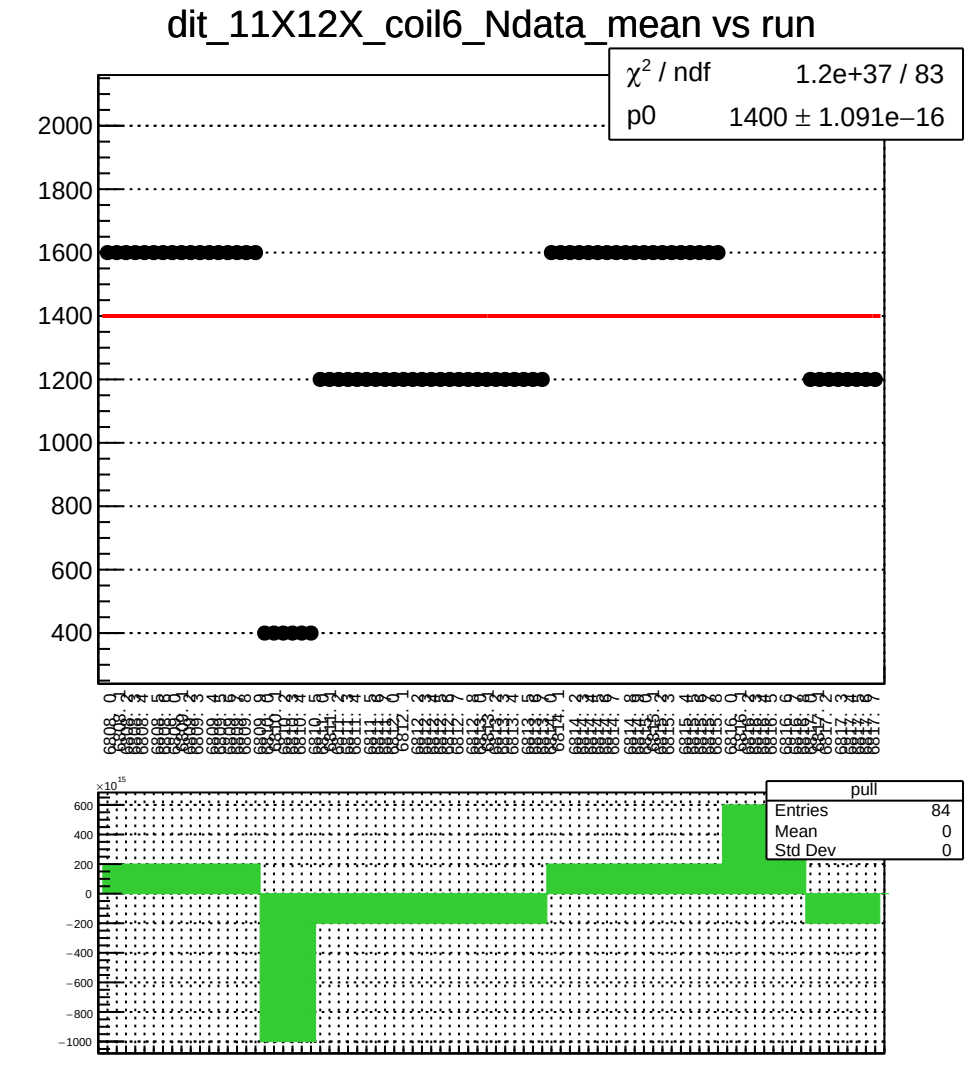

dit_4eX_coil6_Ndata_mean vs run
χ² / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 0
Std Dev 0
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

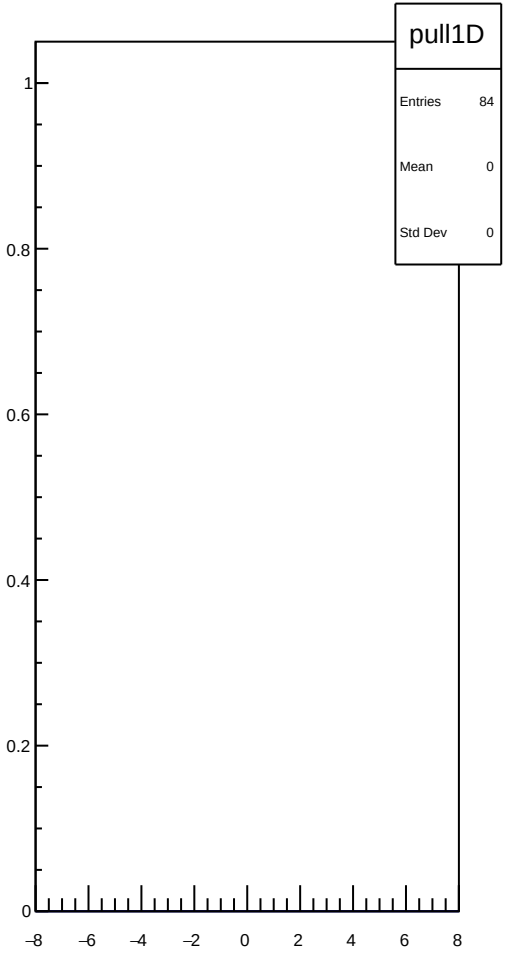

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

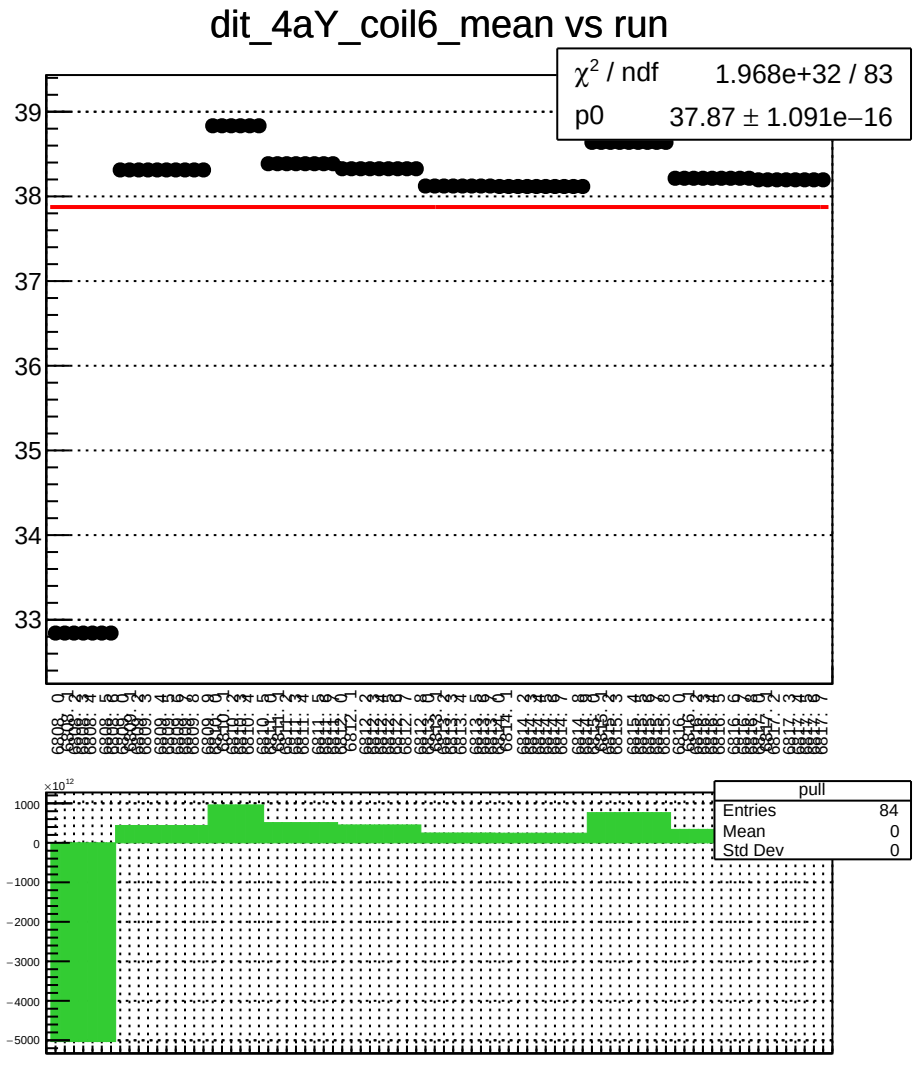

dit_11X12X_coil6_mean vs run
χ² / ndf 5.935e+31 / 83
p0 6.265 ± 1.091e−16
pull
Entries 84
Mean 1.069e+08
Std Dev 1.069e+08

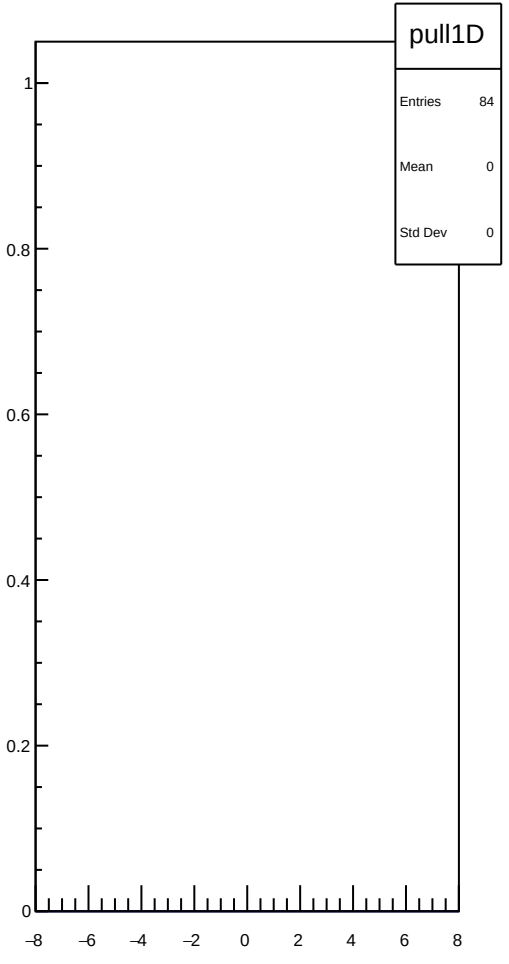

pull1D
Entries 84
Mean 0
Std Dev 0

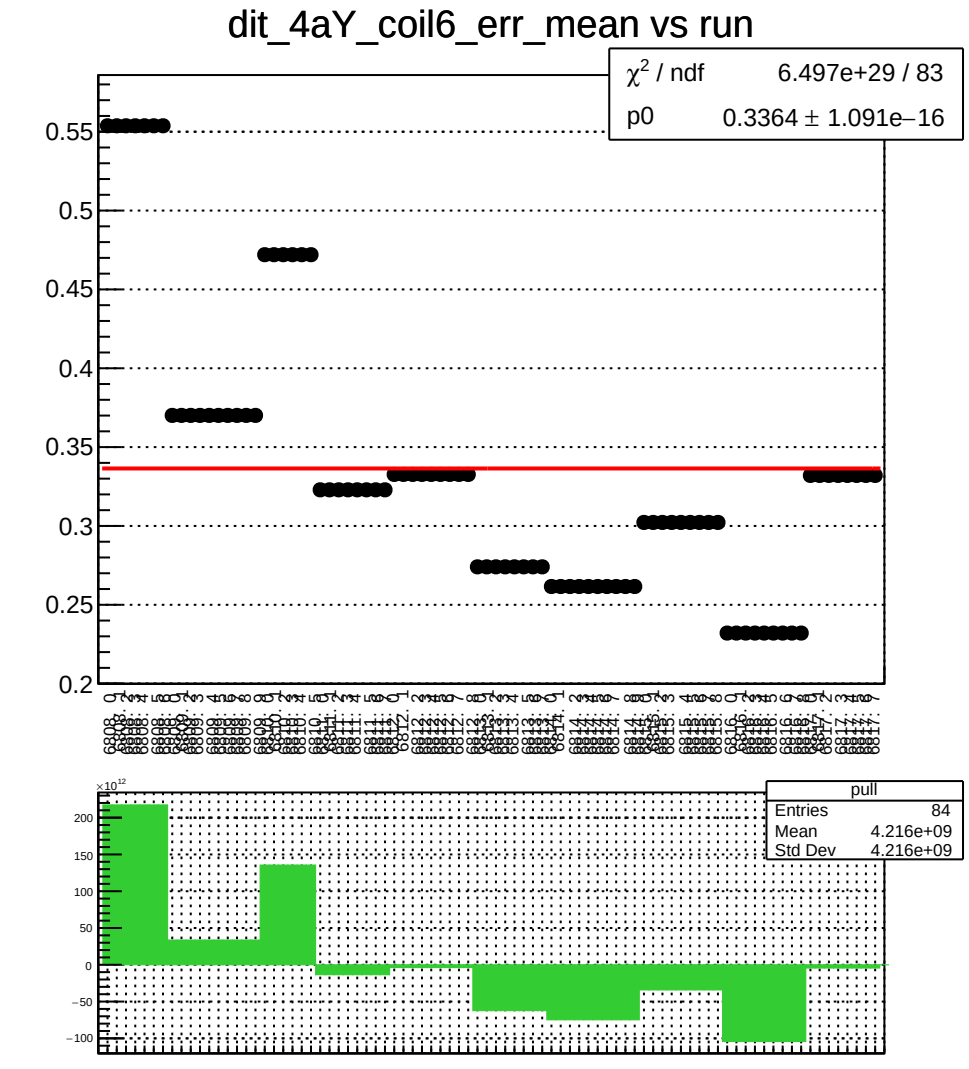

dit_11X12X_coil6_err_mean vs run
χ² / ndf 7.02e+30 / 83
p0 1.52 ± 1.091e−16
pull
Entries 84
Mean 1.941e+08
Std Dev 1.941e+08
pull1D
Entries 84
Mean 0
Std Dev 0

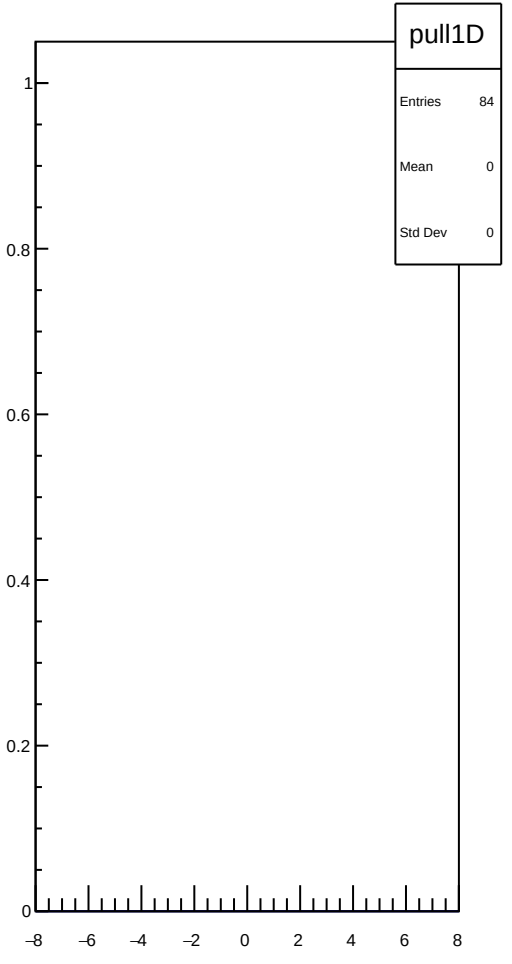

dit_11X12X_coil6_Ndata_mean vs run
χ² / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 0
Std Dev 0
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

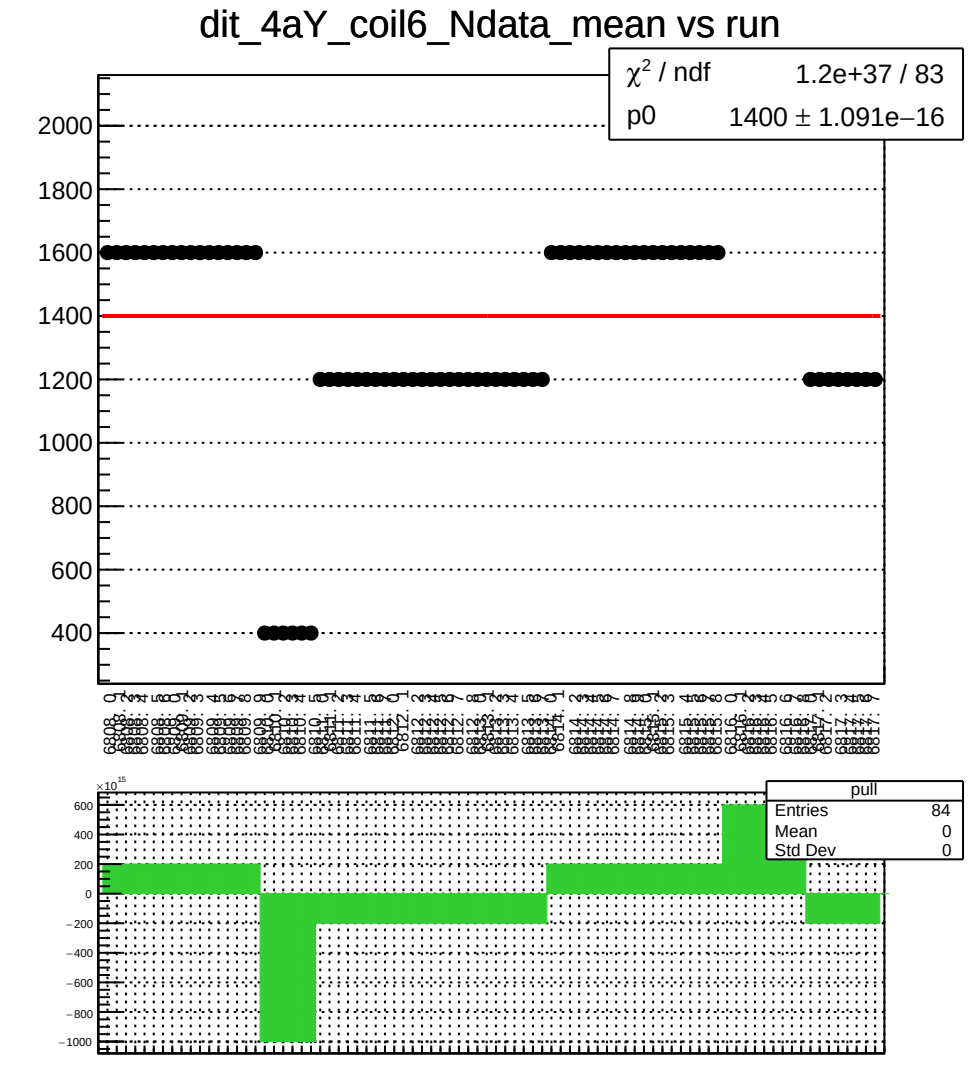

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

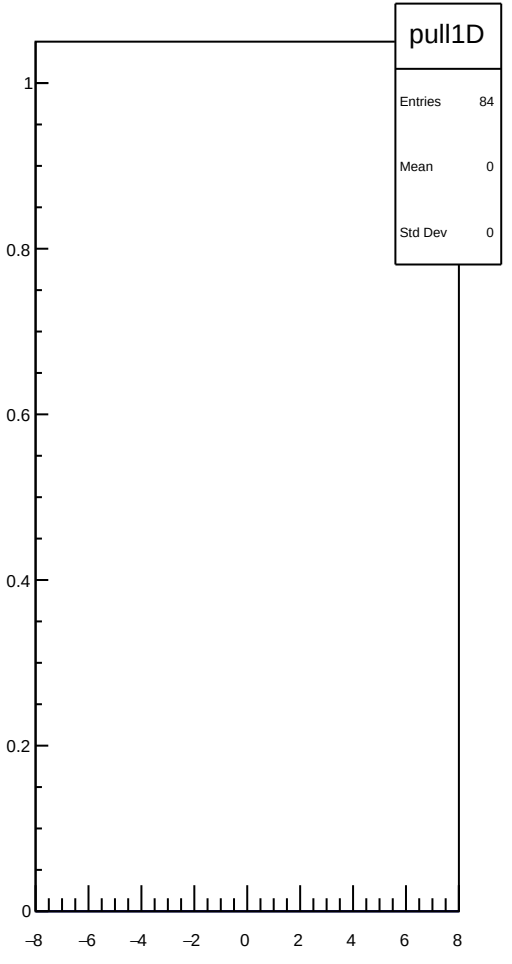

dit_4aY_coil6_mean vs run
χ² / ndf 1.968e+32 / 83
p0 37.87 ± 1.091e−16
39
38
37
36
35
34
33
×10¹²
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 84
Mean 0
Std Dev 0

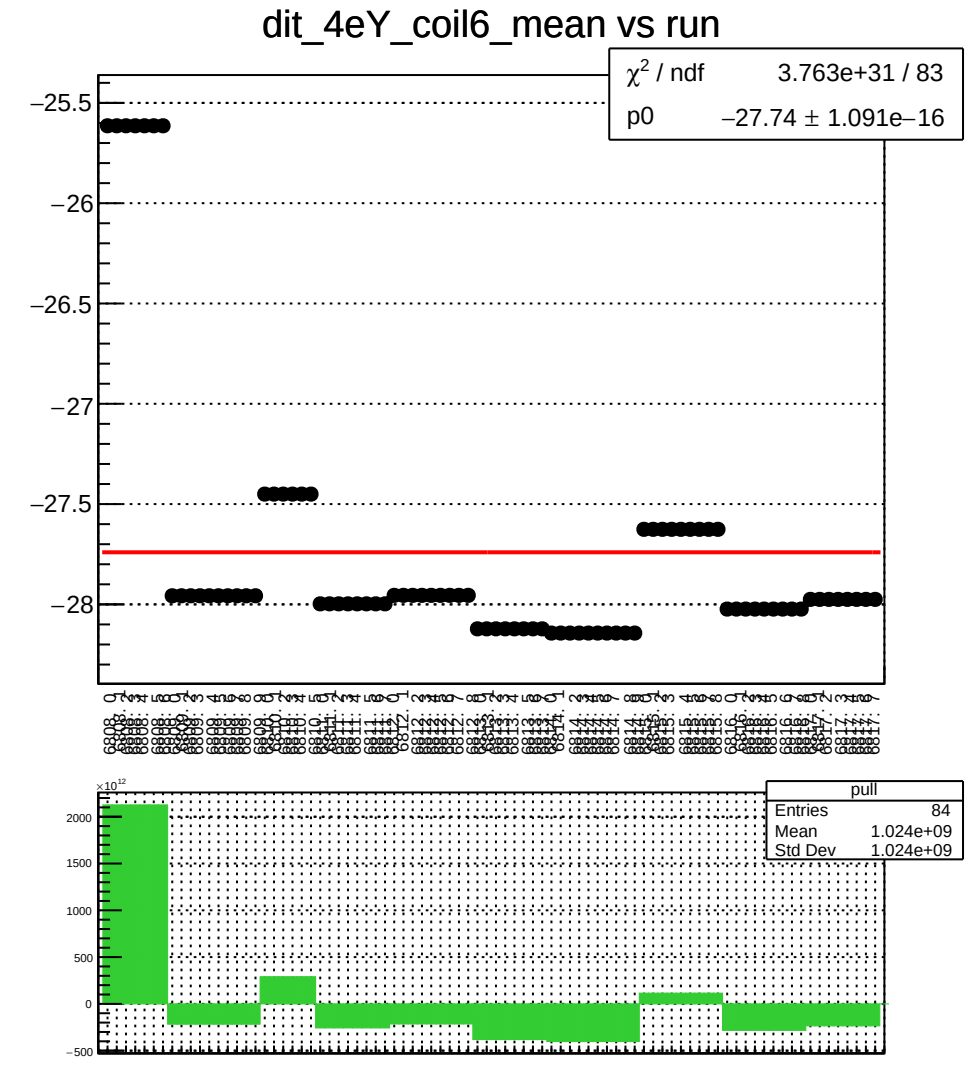

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

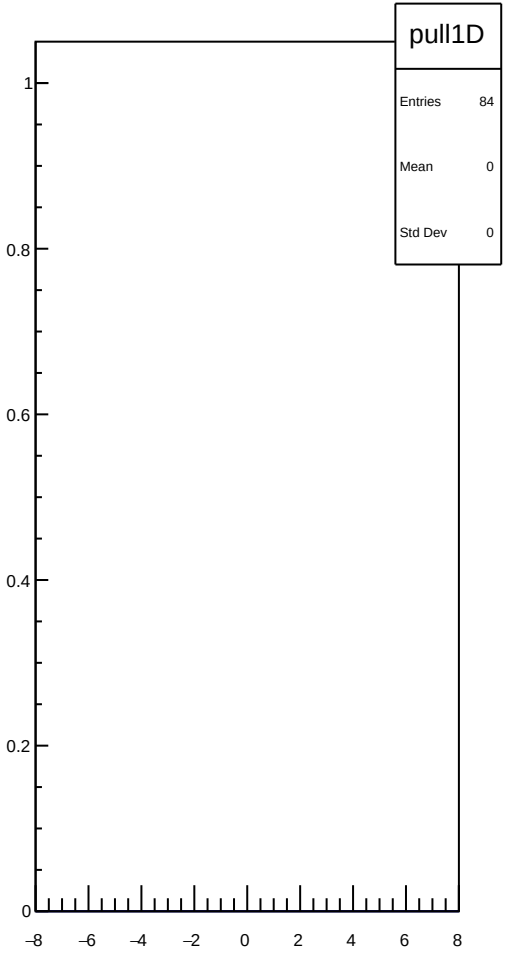

dit_4aY_coil6_err_mean vs run
χ² / ndf 6.497e+29 / 83
p0 0.3364 ± 1.091e−16
pull
Entries 84
Mean 4.216e+09
Std Dev 4.216e+09

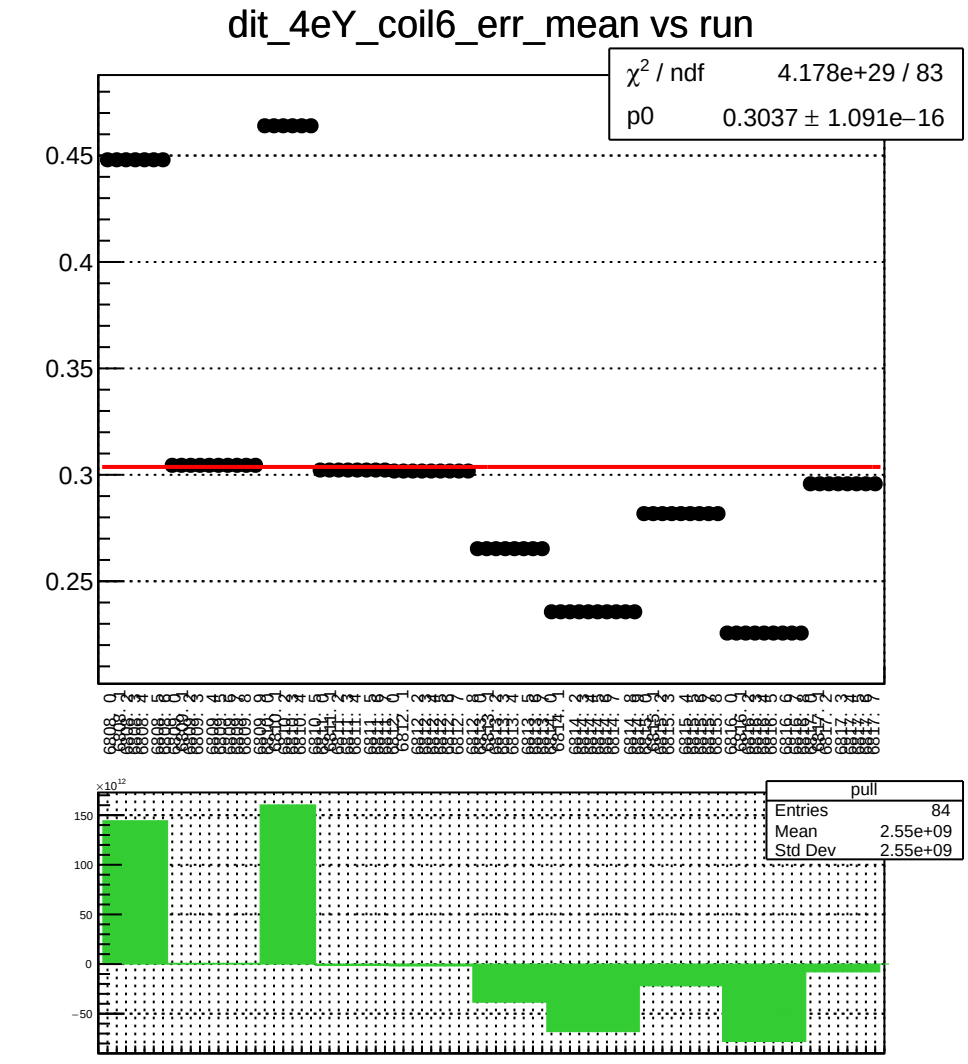

pull1D
Entries 84
Mean 0
Std Dev 0

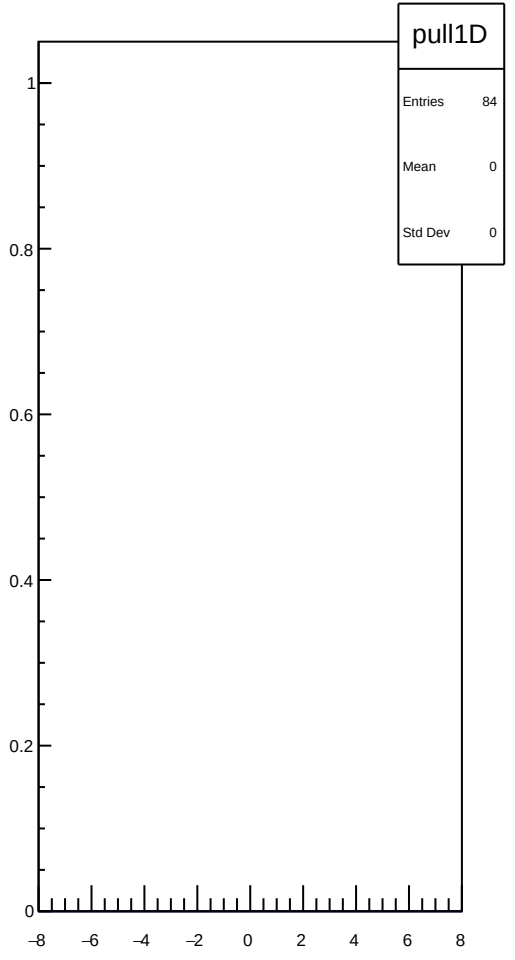

dit_4aY_coil6_Ndata_mean vs run
χ² / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 0
Std Dev 0
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

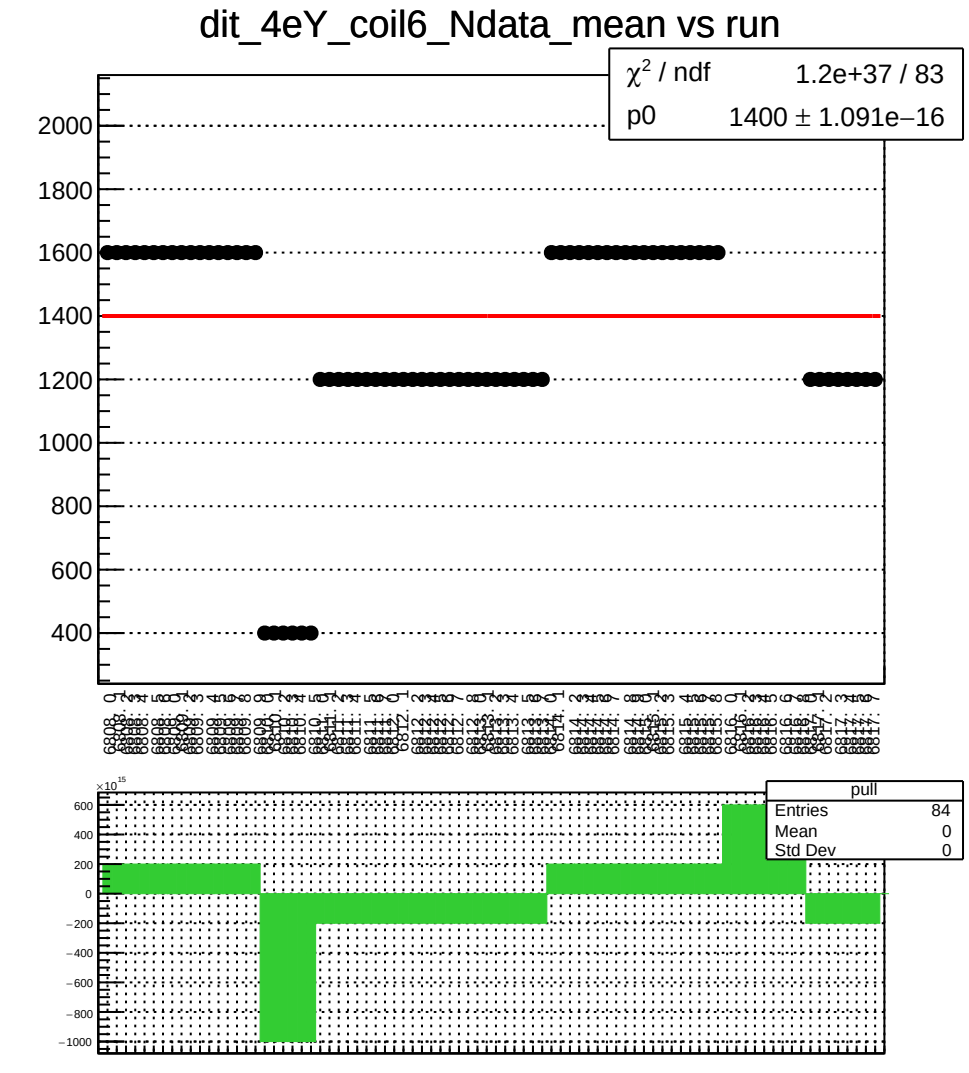

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

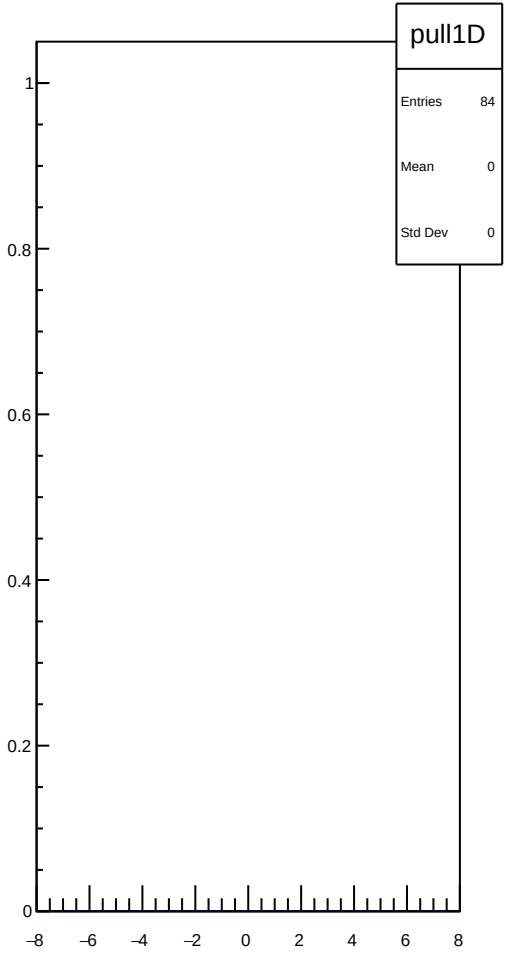

dit_4eY_coil6_mean vs run
χ² / ndf 3.763e+31 / 83
p0 −27.74 ± 1.091e−16
−25.5
−26
−26.5
−27
−27.5
−28
×10¹²
2000
1500
1000
500
0
−500
pull
Entries 84
Mean 1.024e+09
Std Dev 1.024e+09

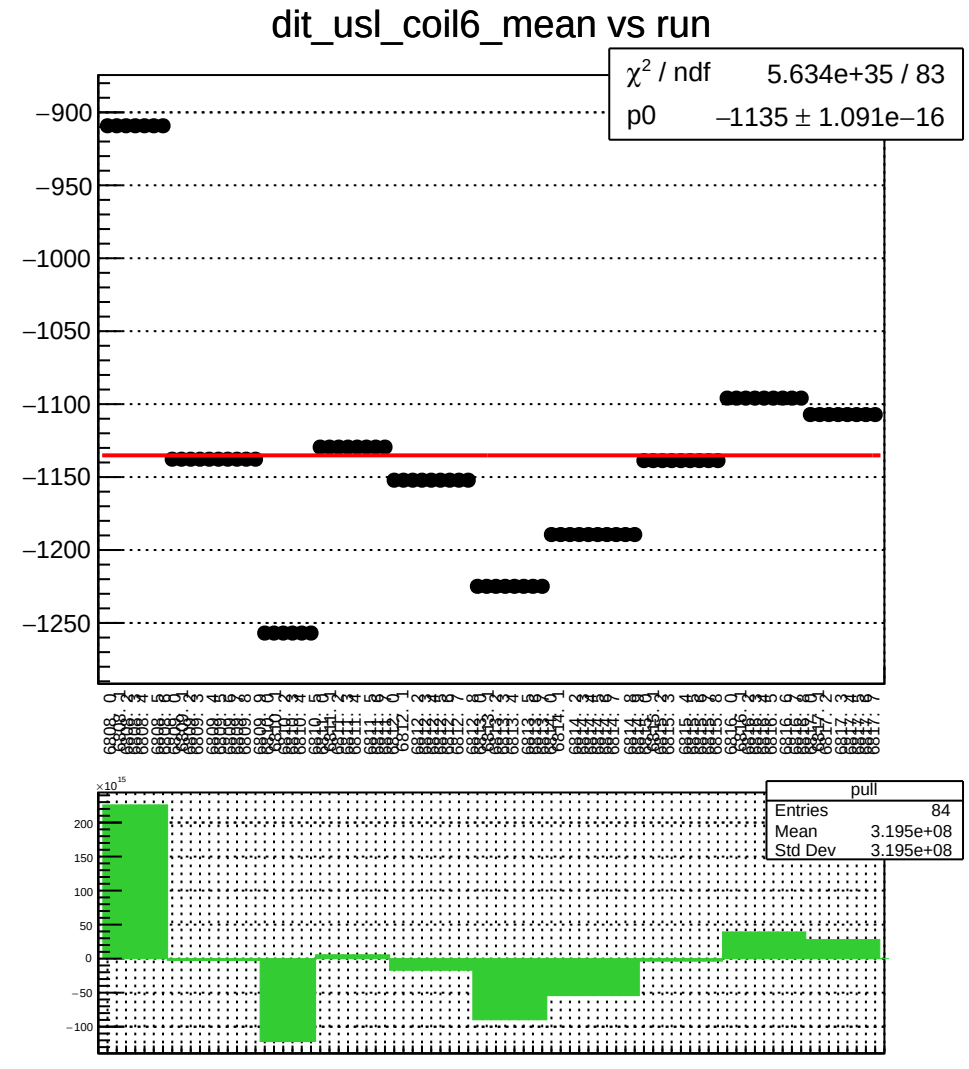

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

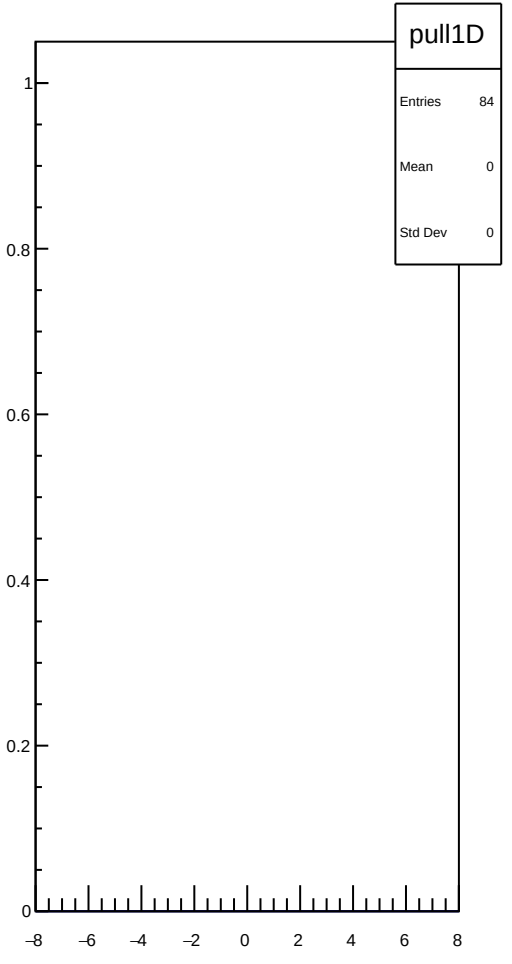

dit_4eY_coil6_err_mean vs run
χ² / ndf 4.178e+29 / 83
p0 0.3037 ± 1.091e−16
0.45
0.4
0.35
0.3
0.25
×10¹²
150
100
50
0
−50
pull
Entries 84
Mean 2.55e+09
Std Dev 2.55e+09

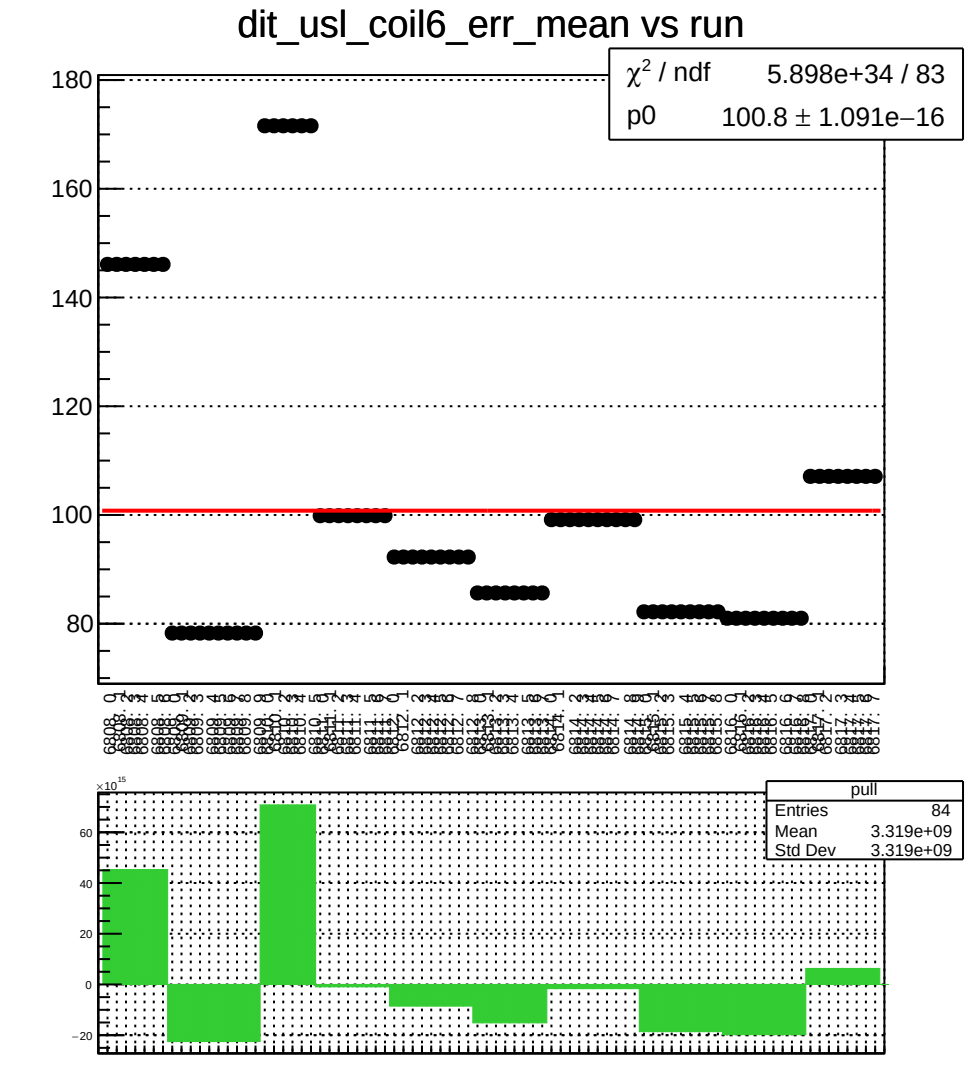

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

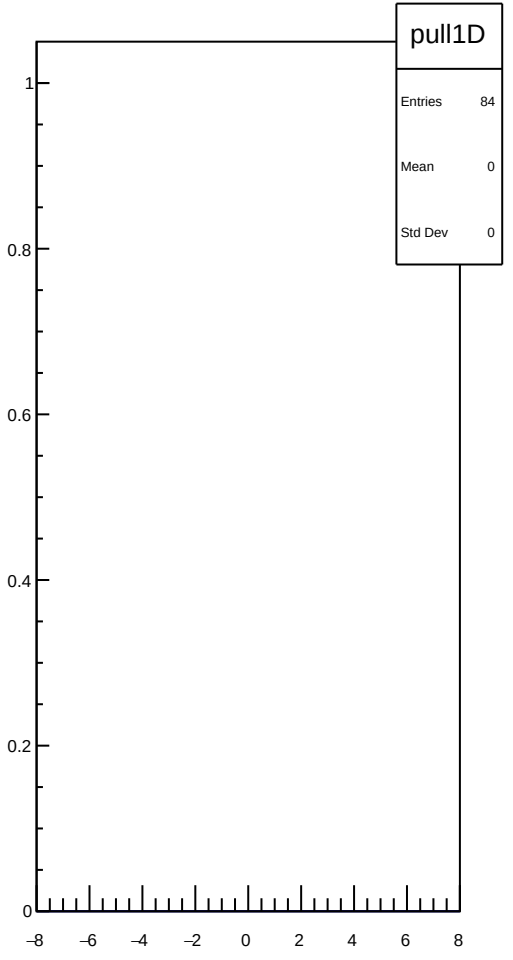

dit_4eY_coil6_Ndata_mean vs run
χ² / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean 0
Std Dev 0

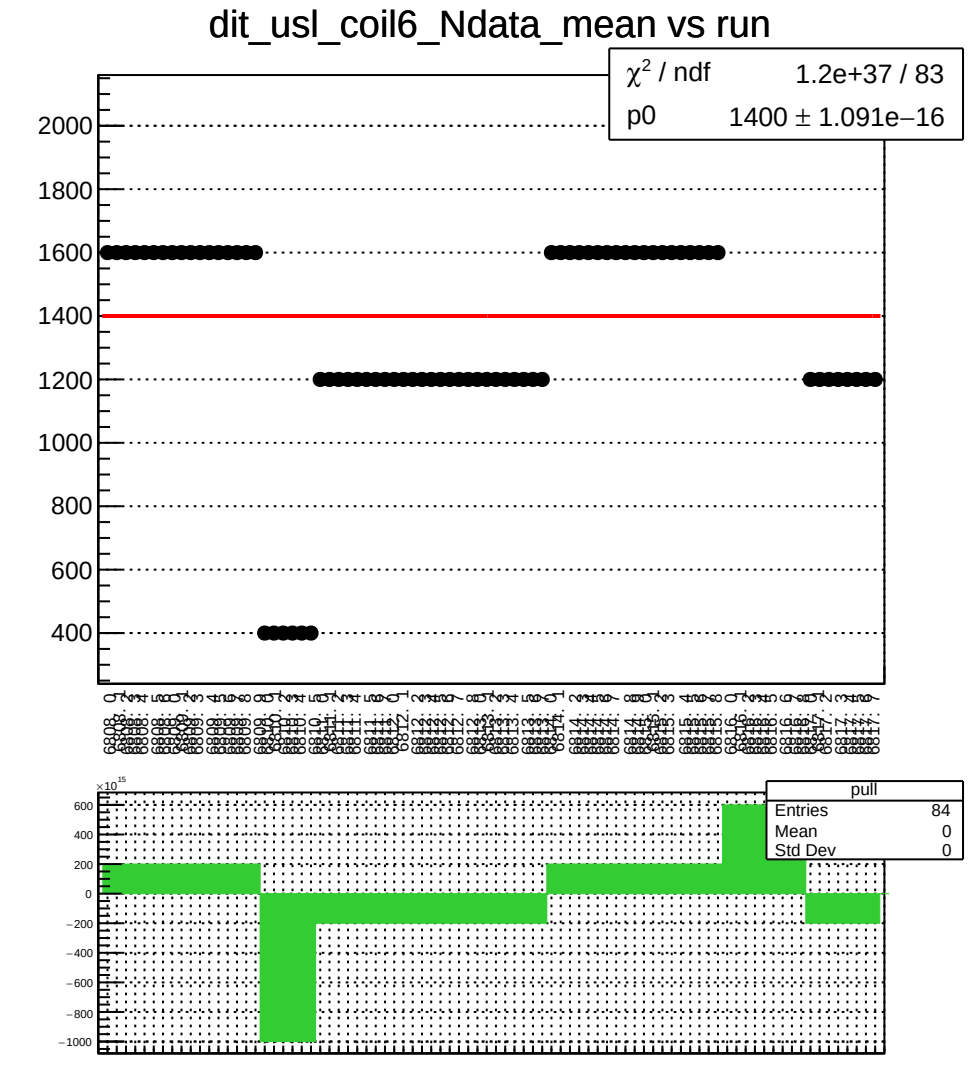

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

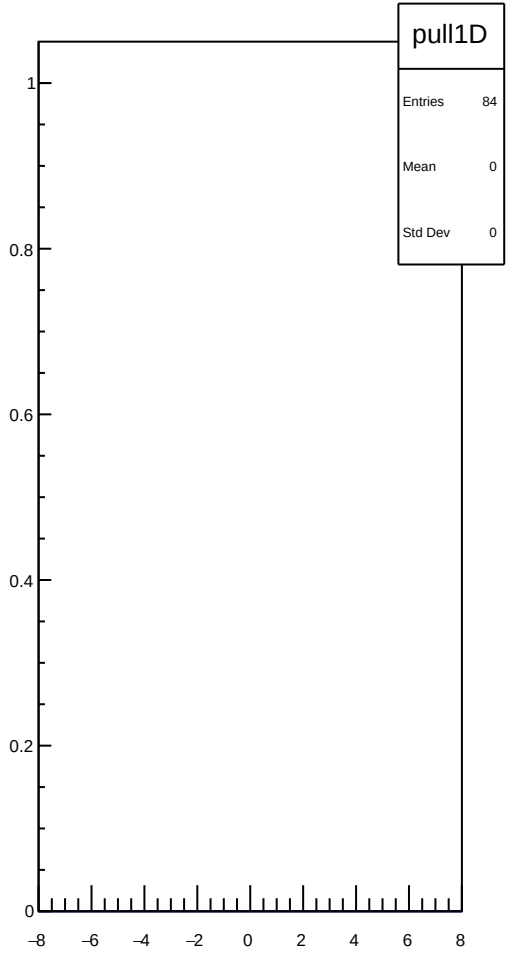

dit_usl_coil6_mean vs run
χ² / ndf 5.634e+35 / 83
p0 −1135 ± 1.091e−16
−900
−950
−1000
−1050
−1100
−1150
−1200
−1250
×10¹⁵
200
150
100
50
0
−50
−100
pull
Entries 84
Mean 3.195e+08
Std Dev 3.195e+08

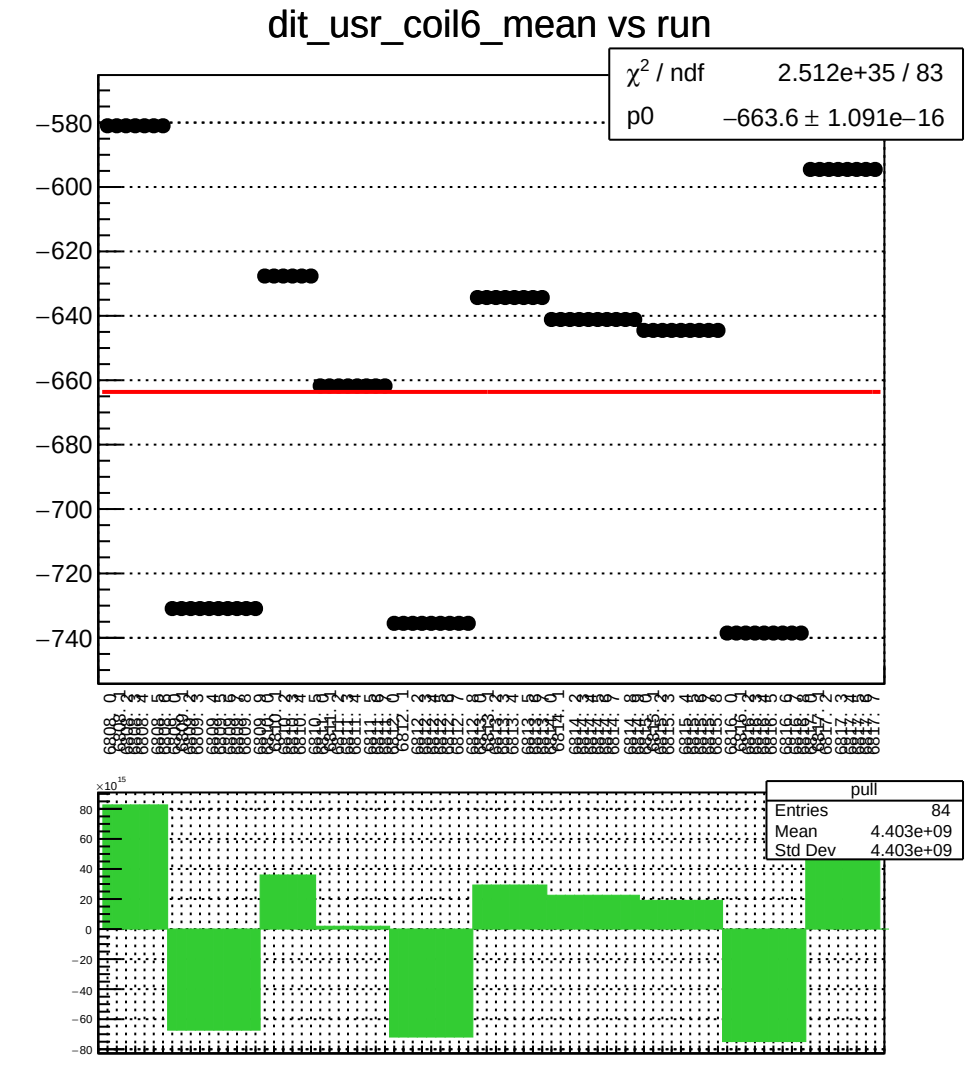

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

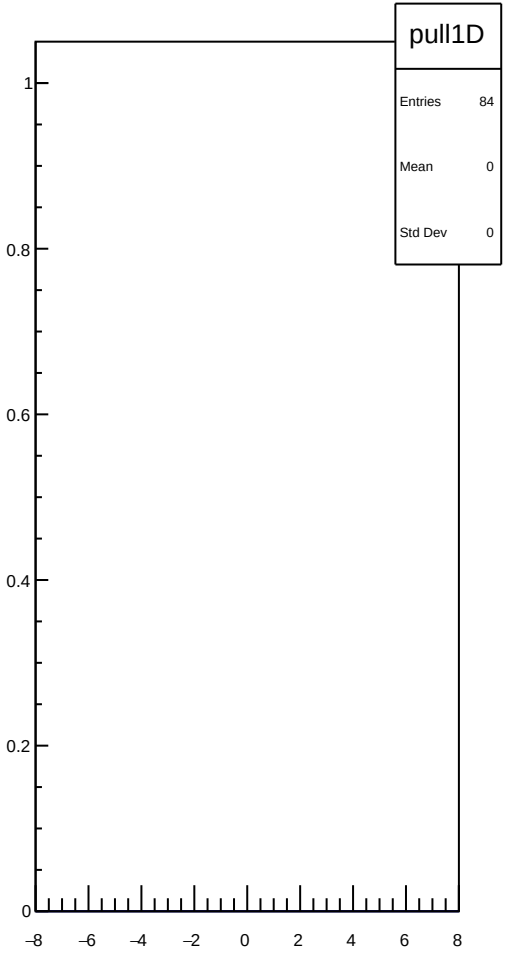

dit_usl_coil6_err_mean vs run
χ² / ndf 5.898e+34 / 83
p0 100.8 ± 1.091e−16
180
160
140
120
100
80
pull
Entries 84
Mean 3.319e+09
Std Dev 3.319e+09
×10¹⁵
60
40
20
0
−20

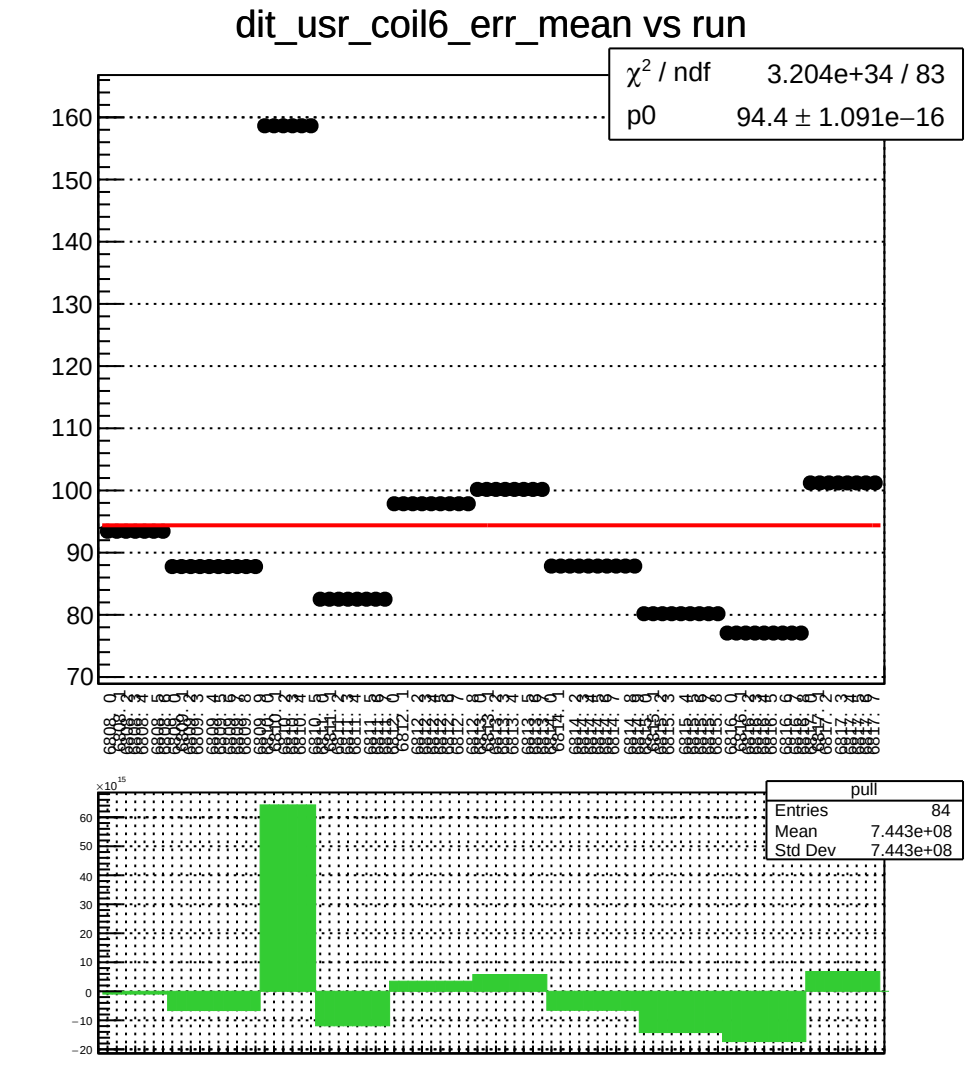

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

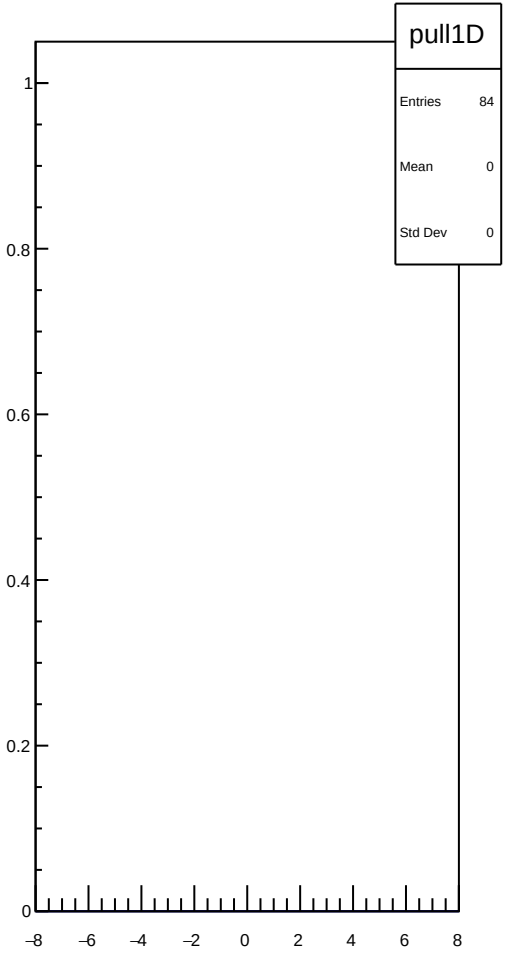

dit_usl_coil6_Ndata_mean vs run
χ² / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 0
Std Dev 0
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

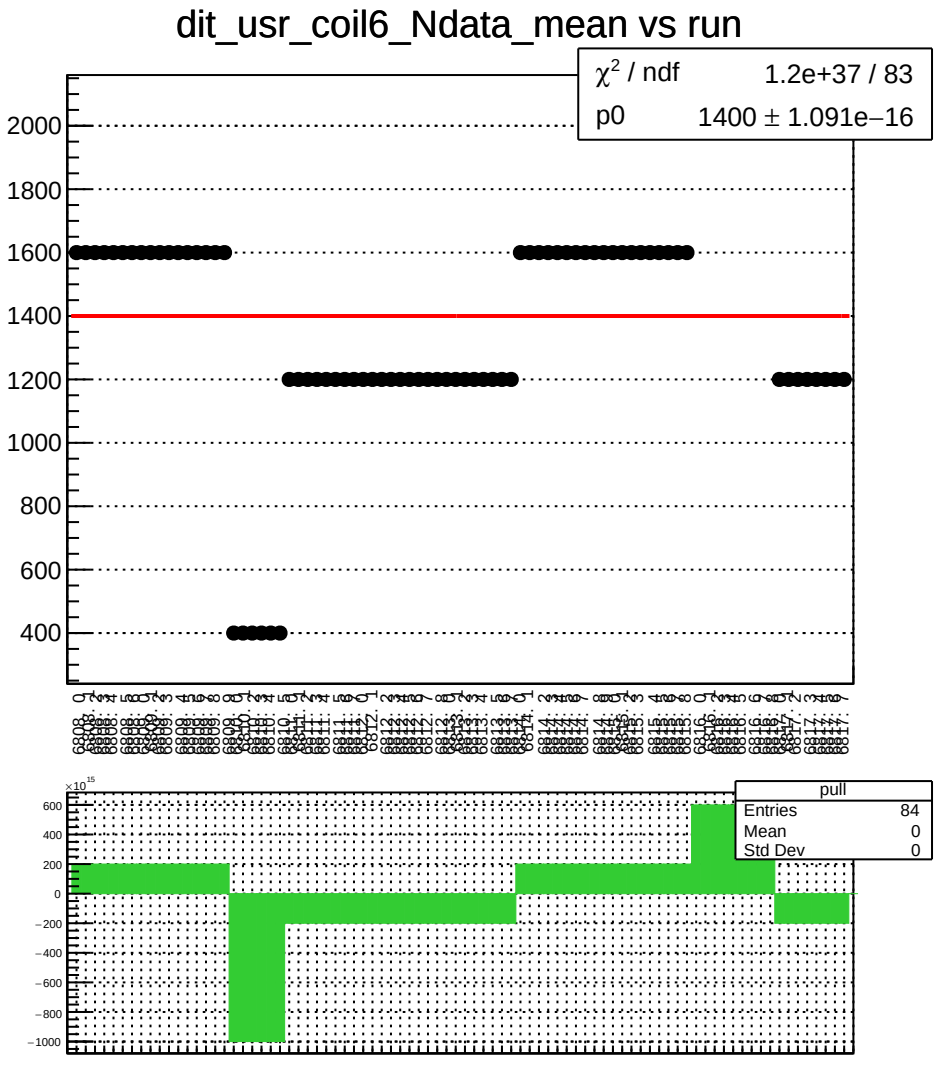

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

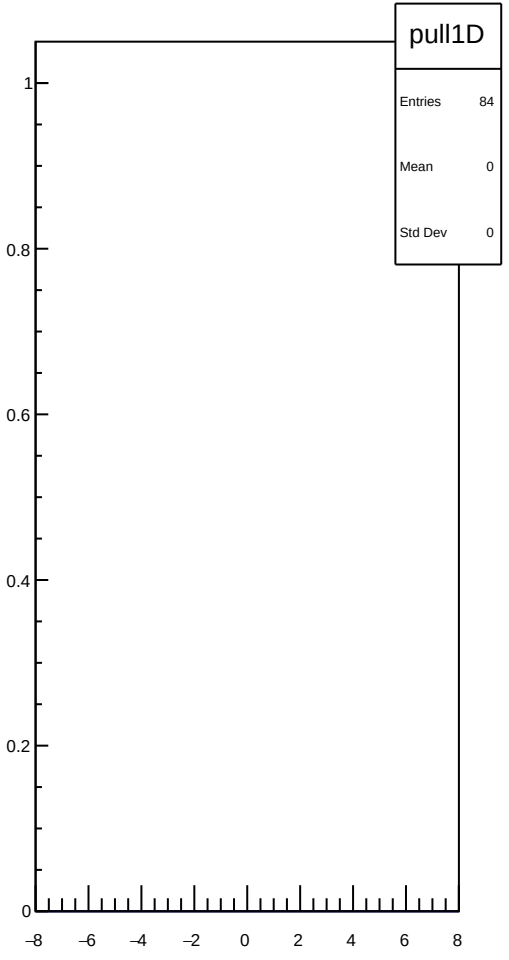

dit_usr_coil6_mean vs run
χ² / ndf 2.512e+35 / 83
p0 −663.6 ± 1.091e−16
−580
−600
−620
−640
−660
−680
−700
−720
−740
pull
Entries 84
Mean 4.403e+09
Std Dev 4.403e+09
×10¹⁵
80
60
40
20
0
−20
−40
−60
−80

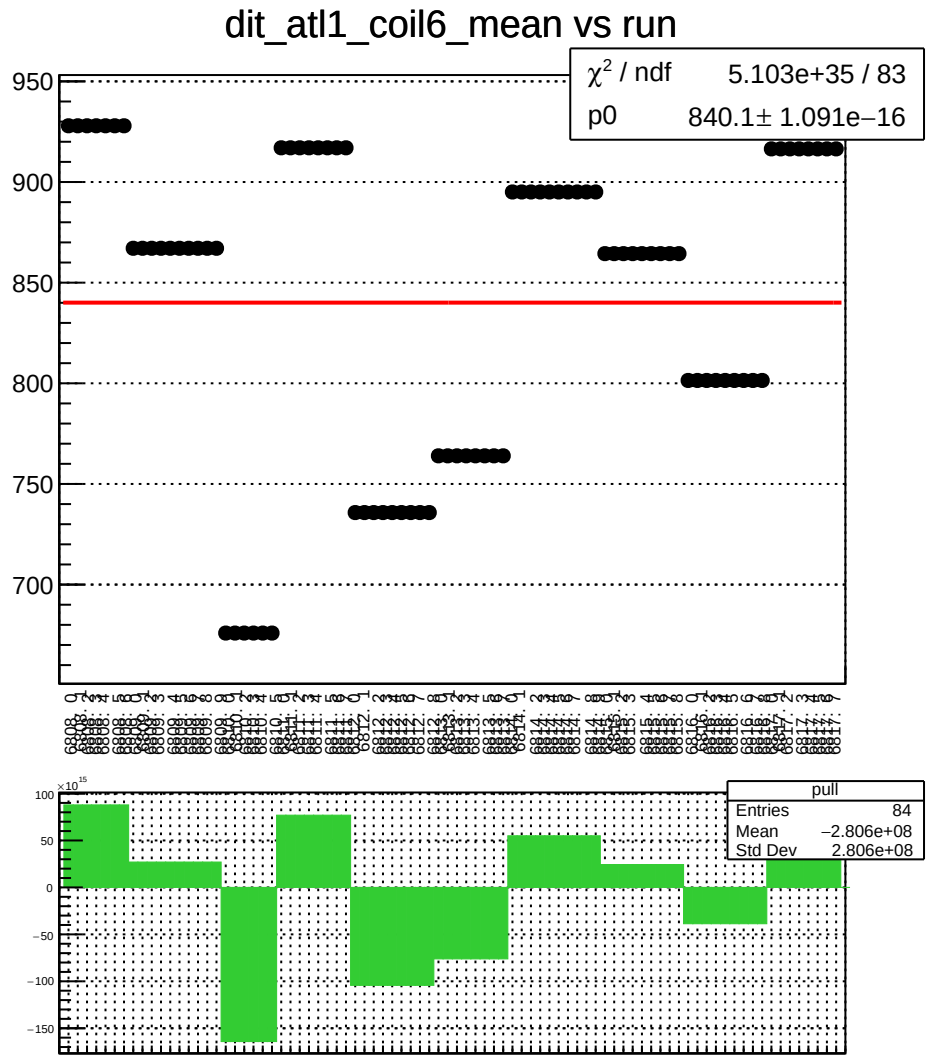

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

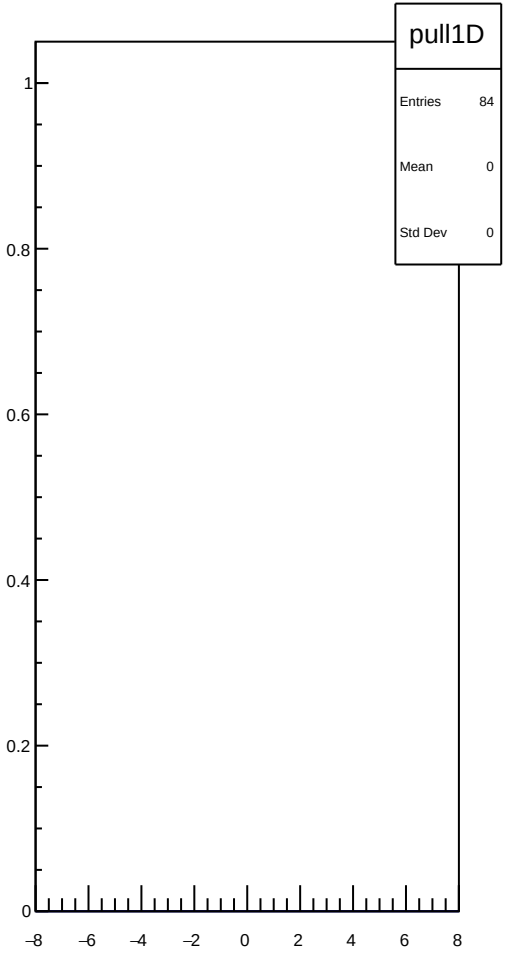

dit_usr_coil6_err_mean vs run
χ² / ndf 3.204e+34 / 83
p0 94.4 ± 1.091e−16
160
150
140
130
120
110
100
90
80
70
×10¹⁵
60
50
40
30
20
10
0
−10
−20
pull
Entries 84
Mean 7.443e+08
Std Dev 7.443e+08

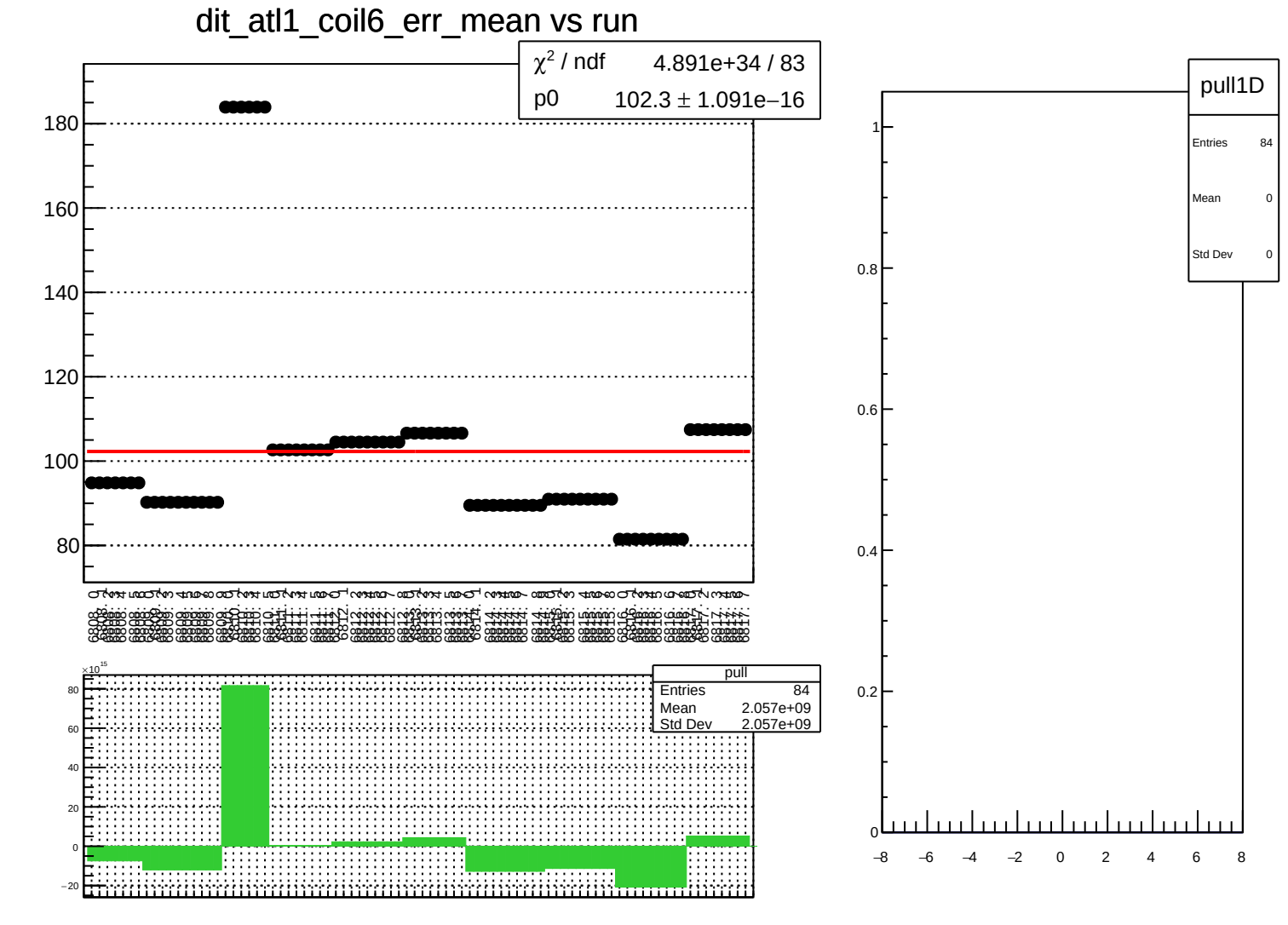

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

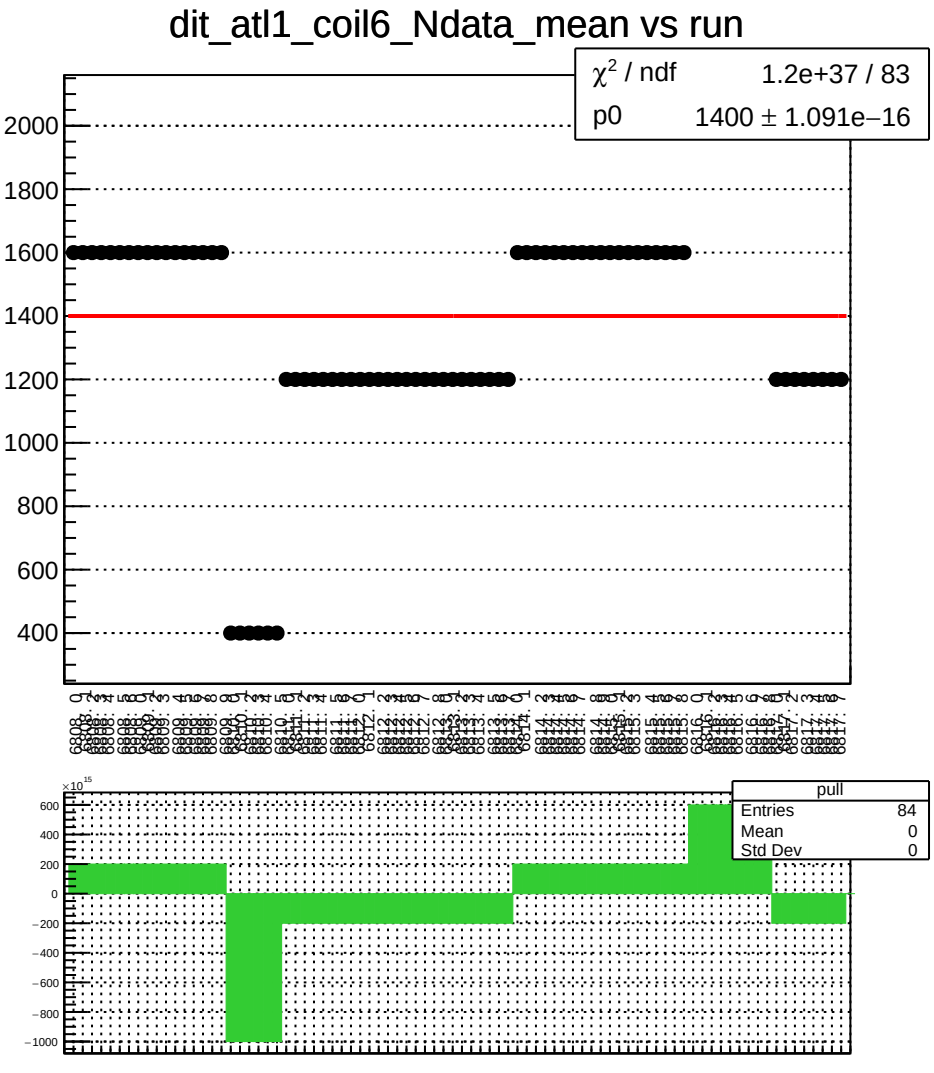

dit_usr_coil6_Ndata_mean vs run
χ² / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean 0
Std Dev 0

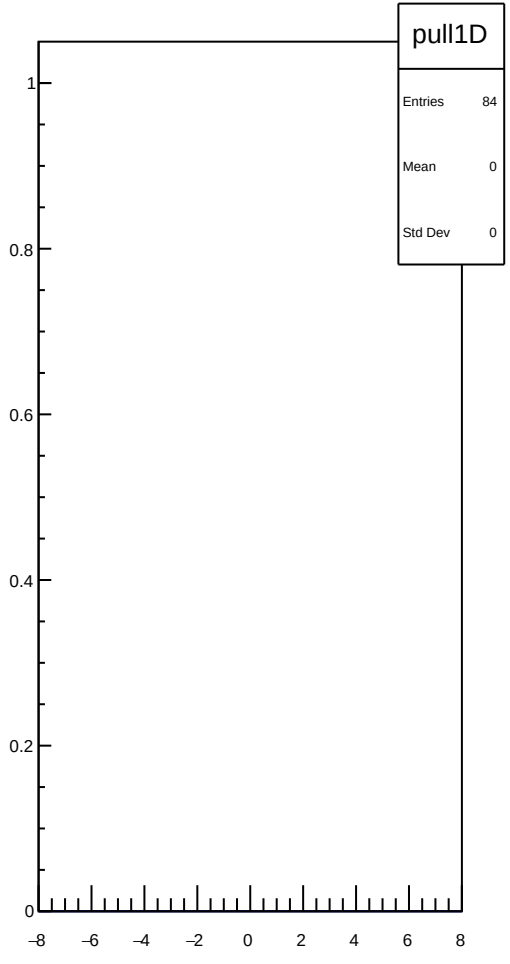

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

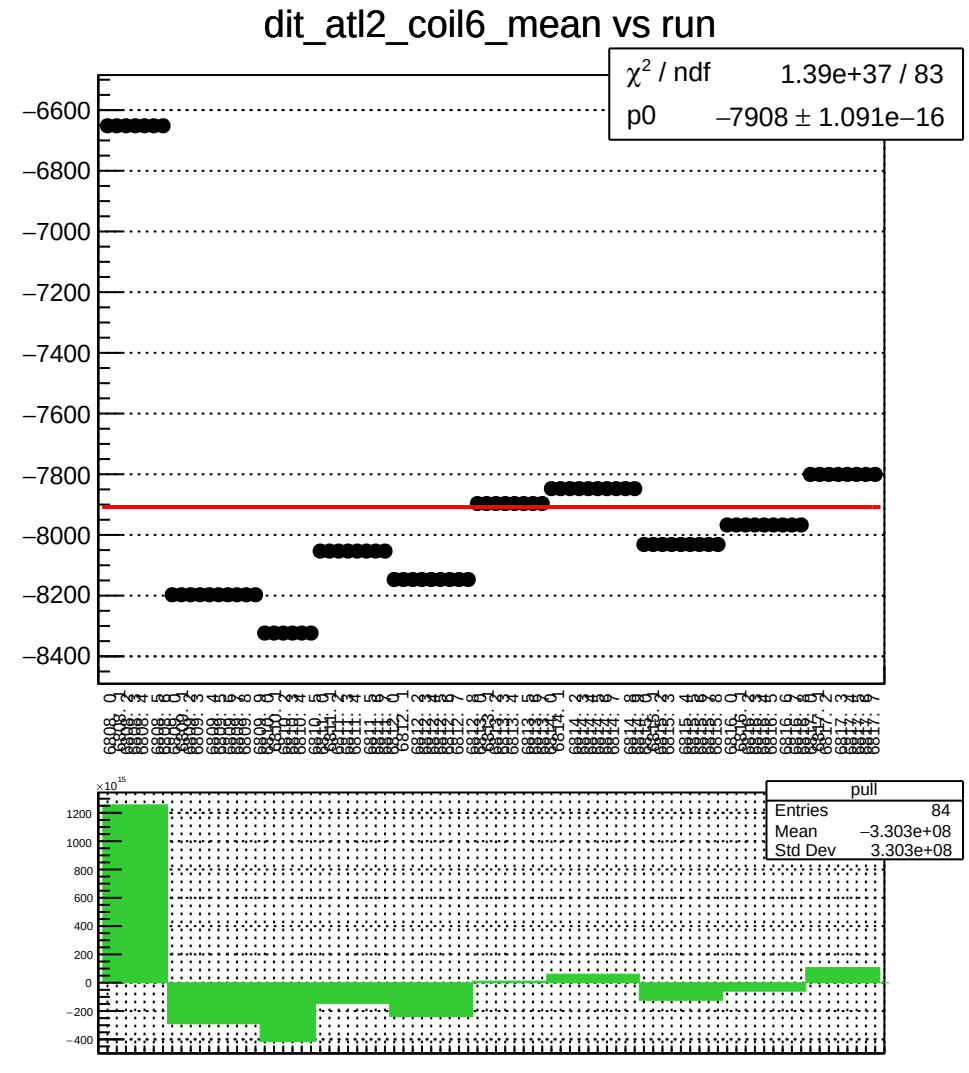

dit_atl1_coil6_mean vs run
χ² / ndf 5.103e+35 / 83
p0 840.1± 1.091e−16
950
900
850
800
750
700
pull
Entries 84
Mean −2.806e+08
Std Dev 2.806e+08
×10¹⁵
100
50
0
−50
−100
−150

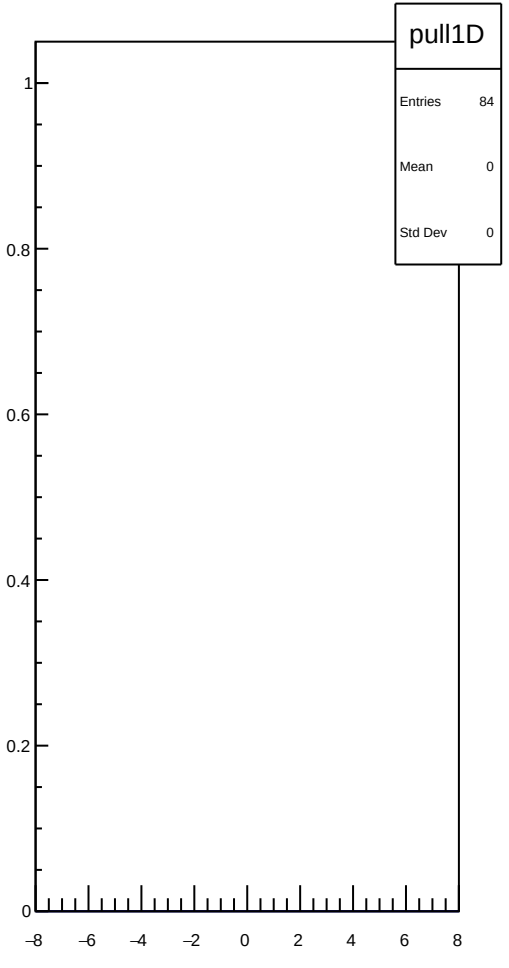

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

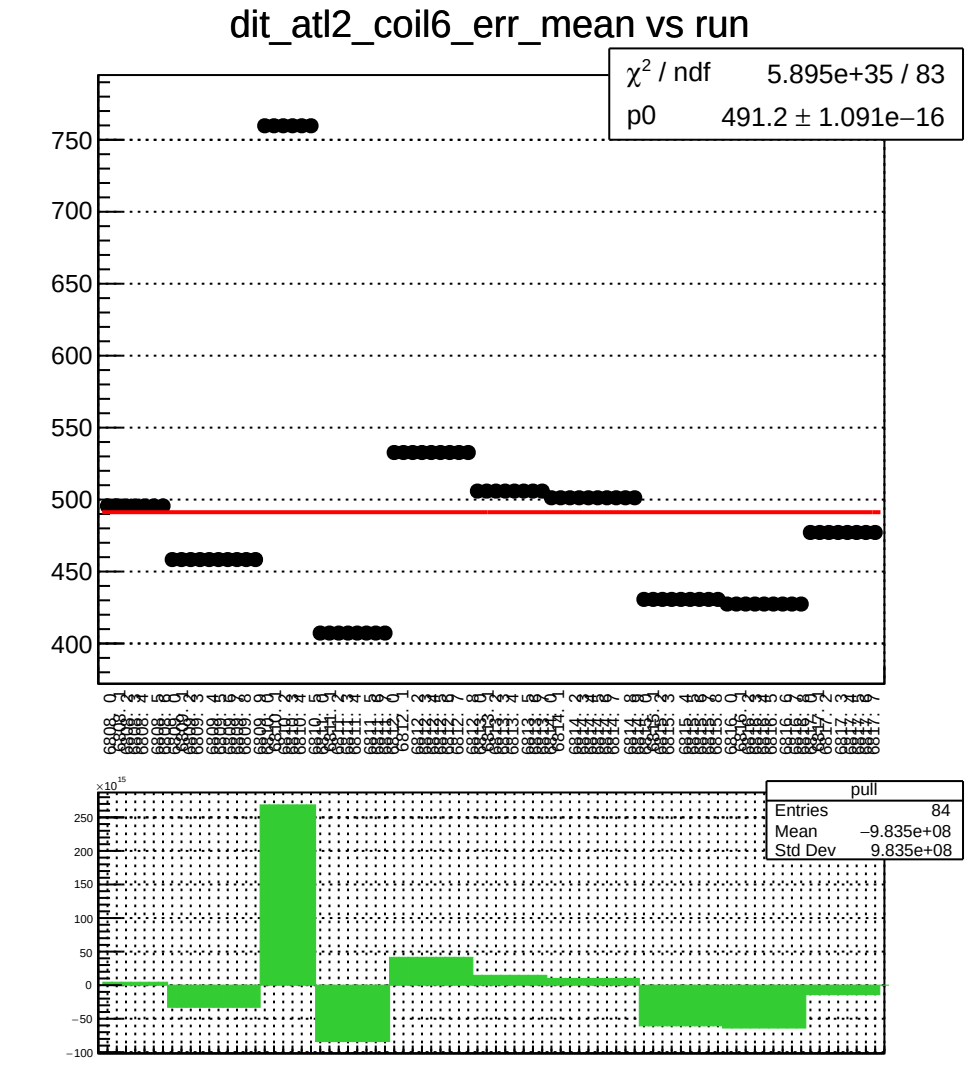

dit_atl1_coil6_err_mean vs run
χ² / ndf 4.891e+34 / 83
p0 102.3 ± 1.091e−16
180
160
140
120
100
80
pull
Entries 84
Mean 2.057e+09
Std Dev 2.057e+09
×10¹⁵
80
60
40
20
0
−20
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

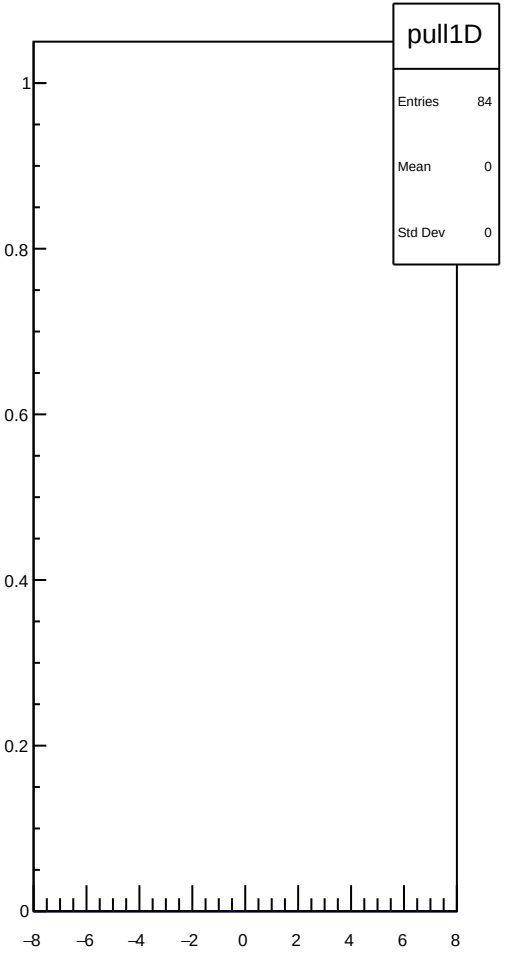

dit_atl1_coil6_Ndata_mean vs run
χ² / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 0
Std Dev 0
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

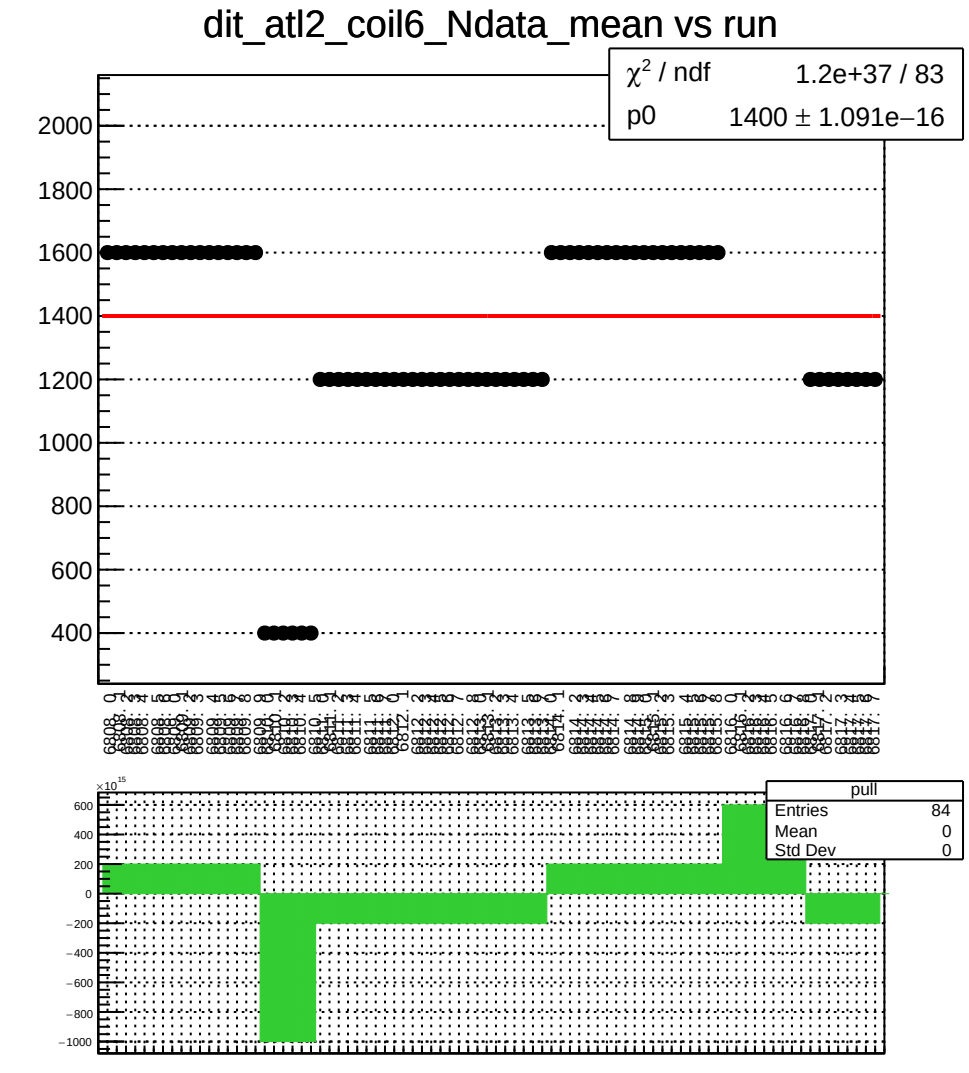

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

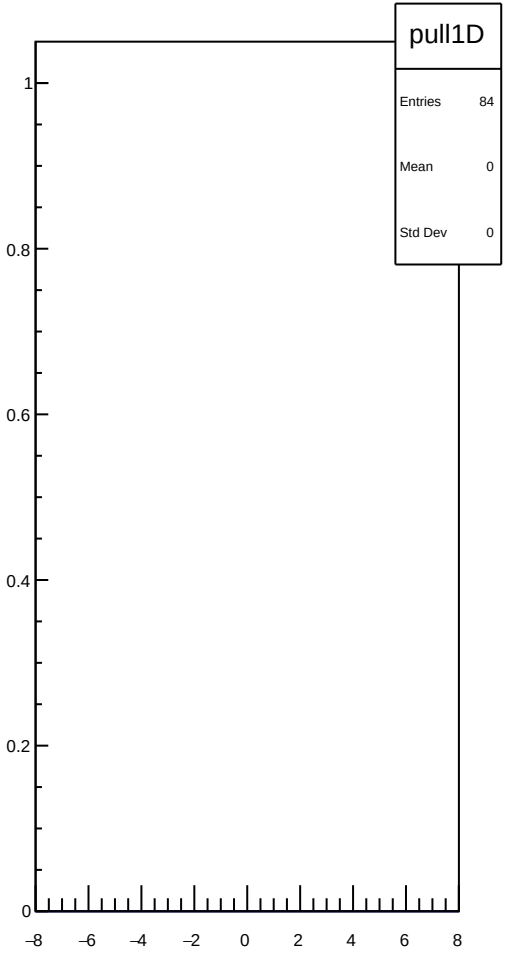

dit_atl2_coil6_mean vs run
χ² / ndf 1.39e+37 / 83
p0 −7908 ± 1.091e−16
−6600
−6800
−7000
−7200
−7400
−7600
−7800
−8000
−8200
−8400
×10¹⁵
1200
1000
800
600
400
200
0
−200
−400
pull
Entries 84
Mean −3.303e+08
Std Dev 3.303e+08

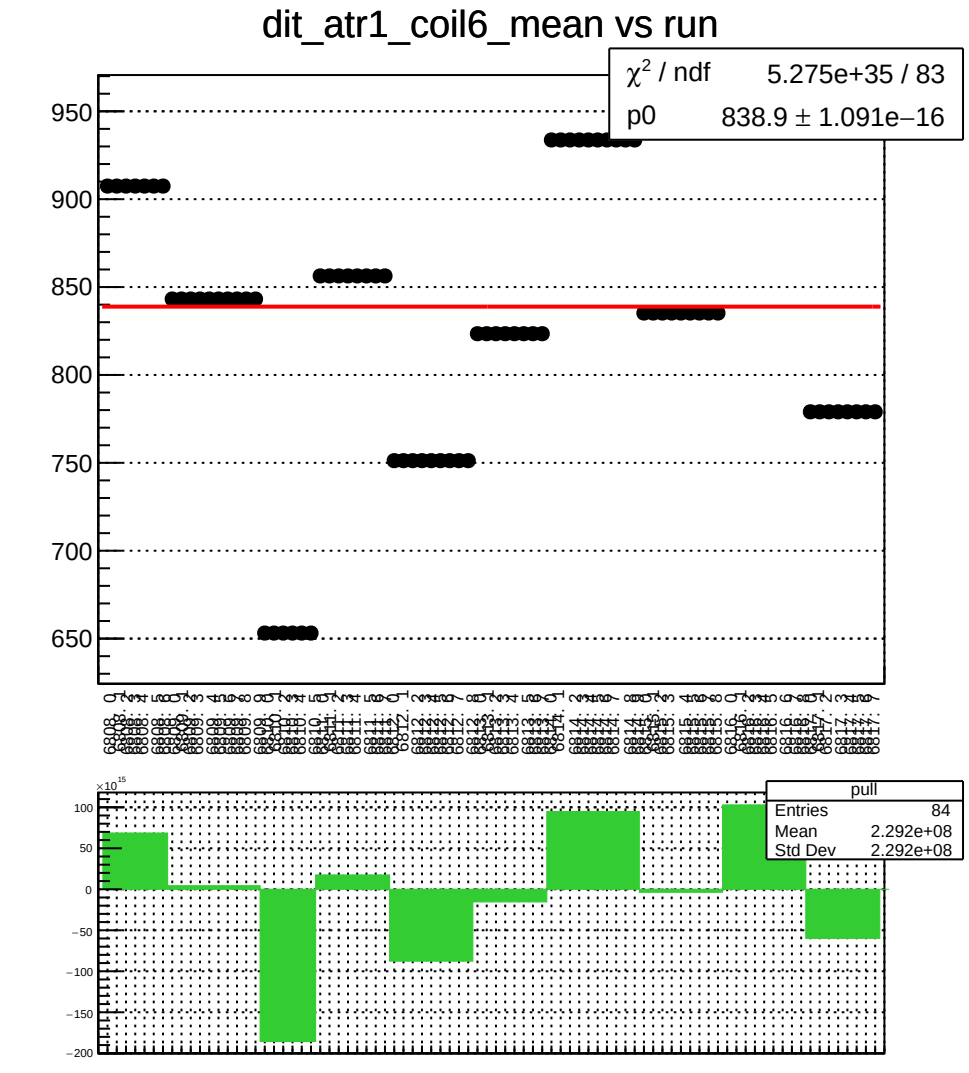

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

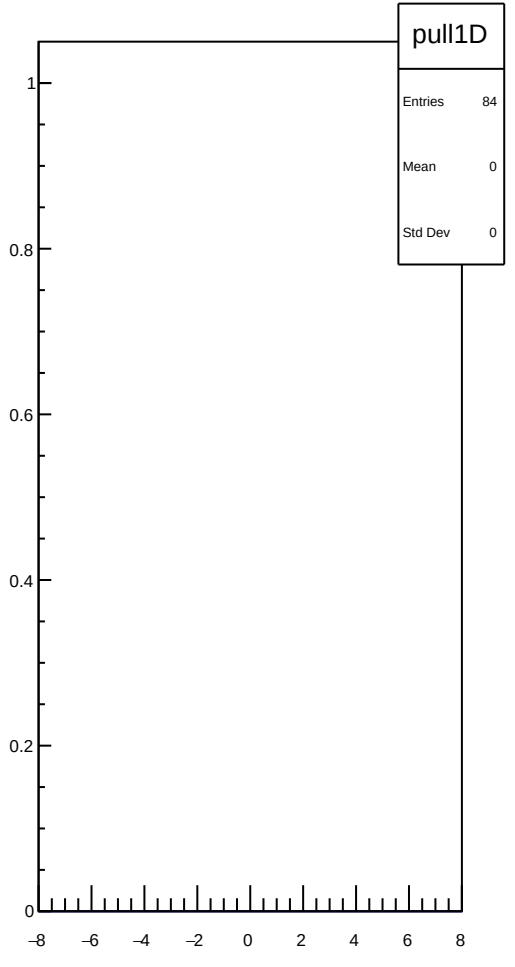

dit_atl2_coil6_err_mean vs run
χ² / ndf 5.895e+35 / 83
p0 491.2 ± 1.091e−16
pull
Entries 84
Mean −9.835e+08
Std Dev 9.835e+08

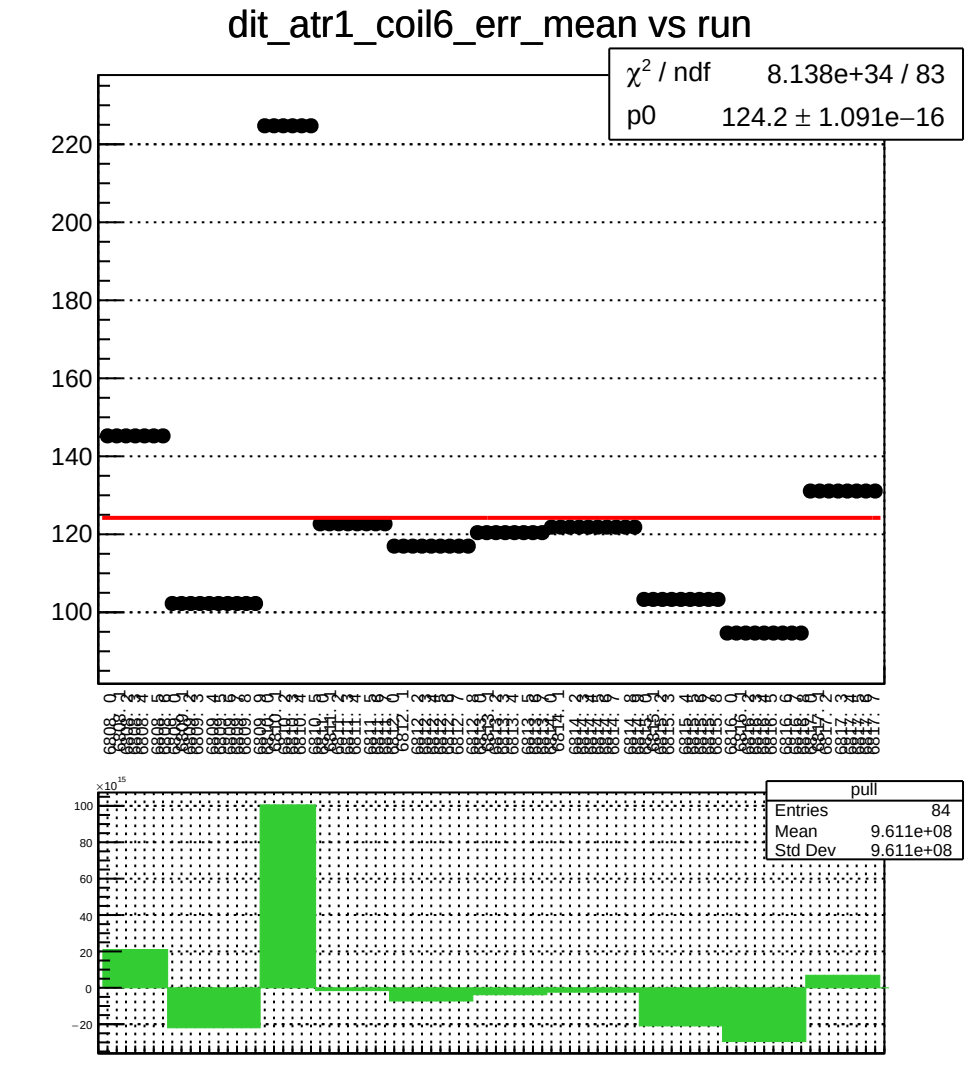

pull1D
Entries 84
Mean 0
Std Dev 0

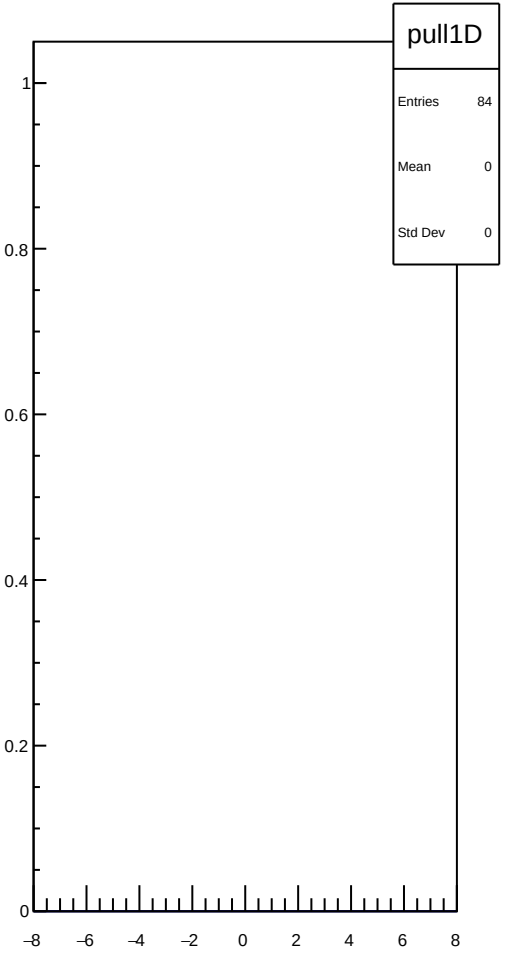

dit_atl2_coil6_Ndata_mean vs run
χ² / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean 0
Std Dev 0

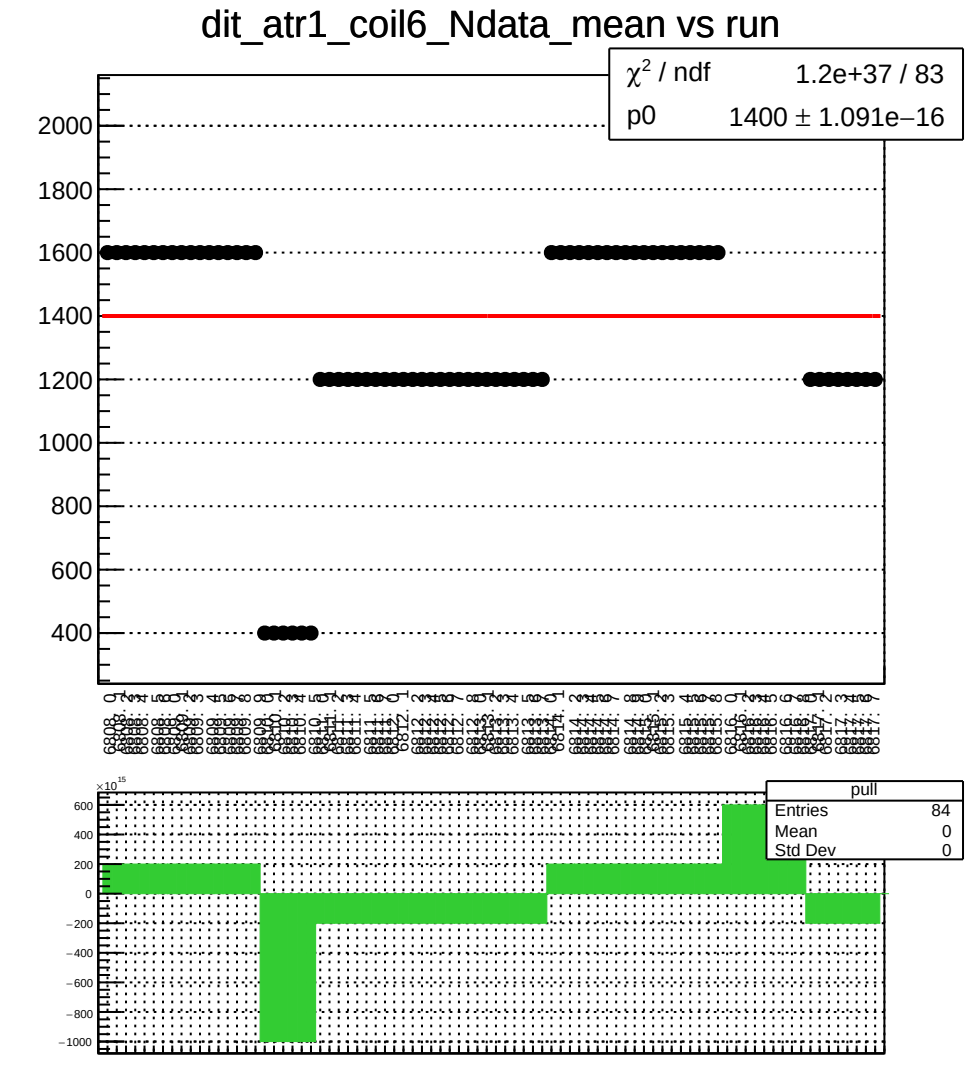

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

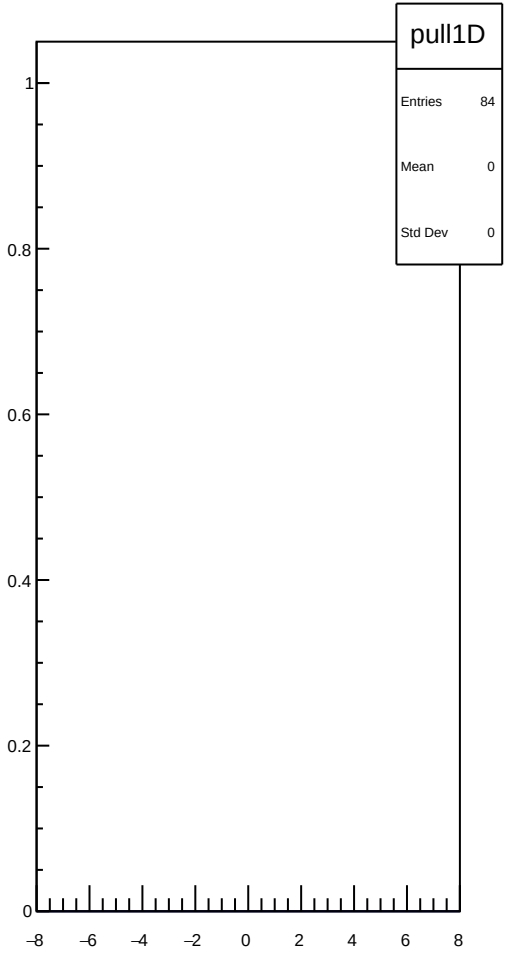

dit_atr1_coil6_mean vs run
χ² / ndf 5.275e+35 / 83
p0 838.9 ± 1.091e−16
950
900
850
800
750
700
650
pull
Entries 84
Mean 2.292e+08
Std Dev 2.292e+08
×10¹⁵
100
50
0
−50
−100
−150
−200

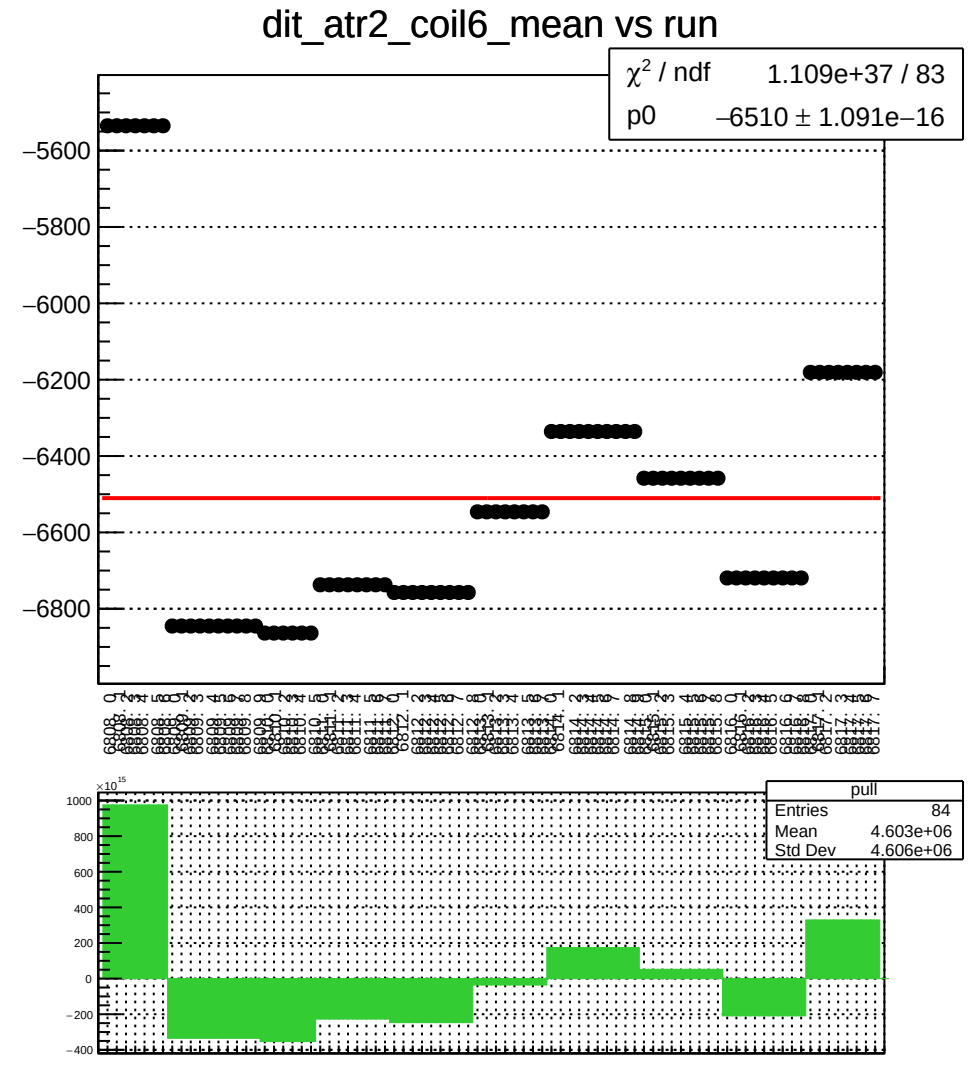

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

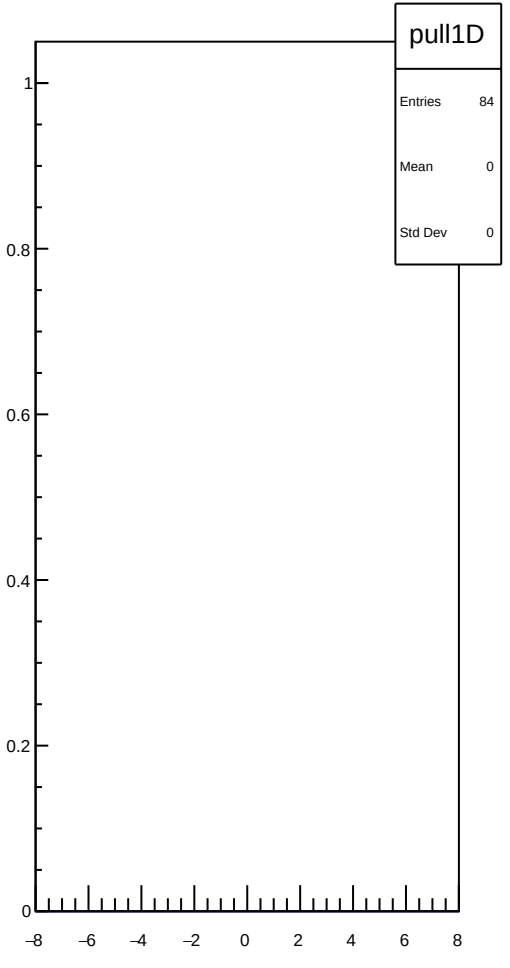

dit_atr1_coil6_err_mean vs run
χ² / ndf 8.138e+34 / 83
p0 124.2 ± 1.091e−16
220
200
180
160
140
120
100
pull
Entries 84
Mean 9.611e+08
Std Dev 9.611e+08
×10¹⁵
100
80
60
40
20
0
−20

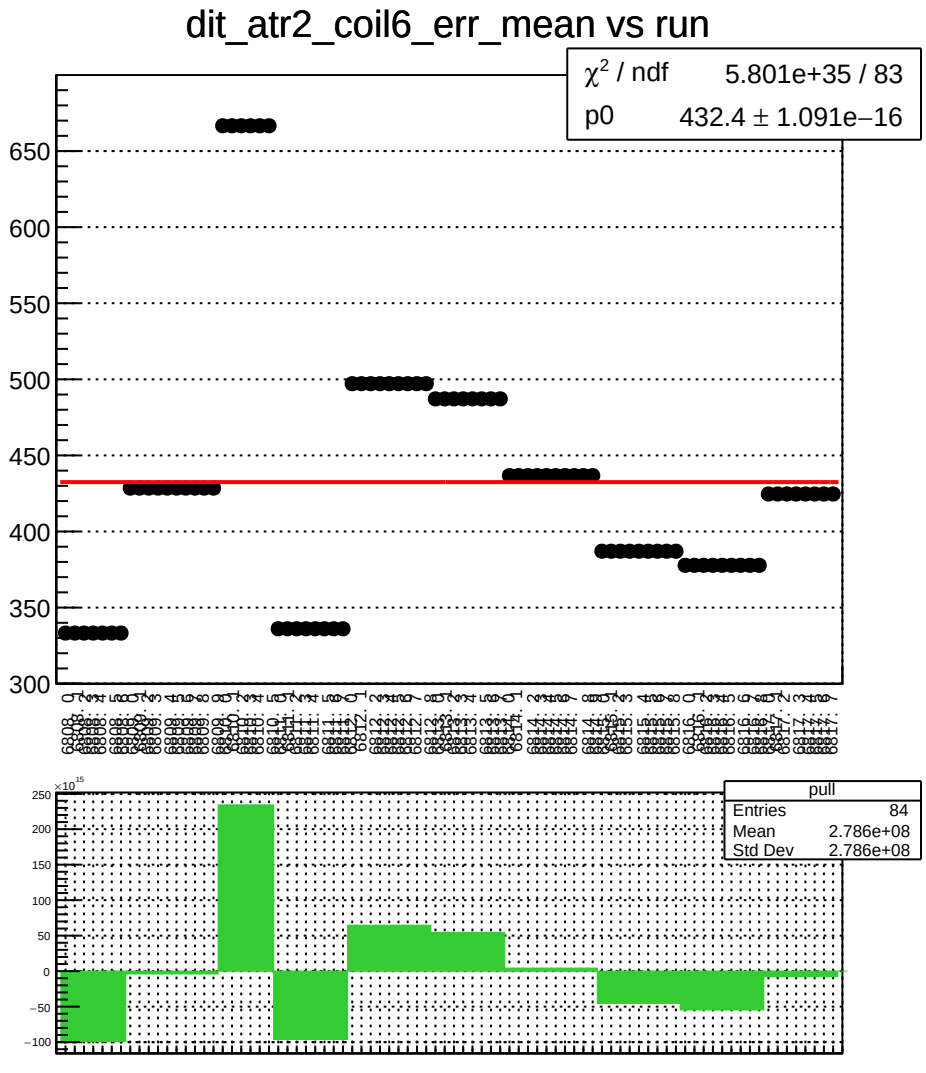

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

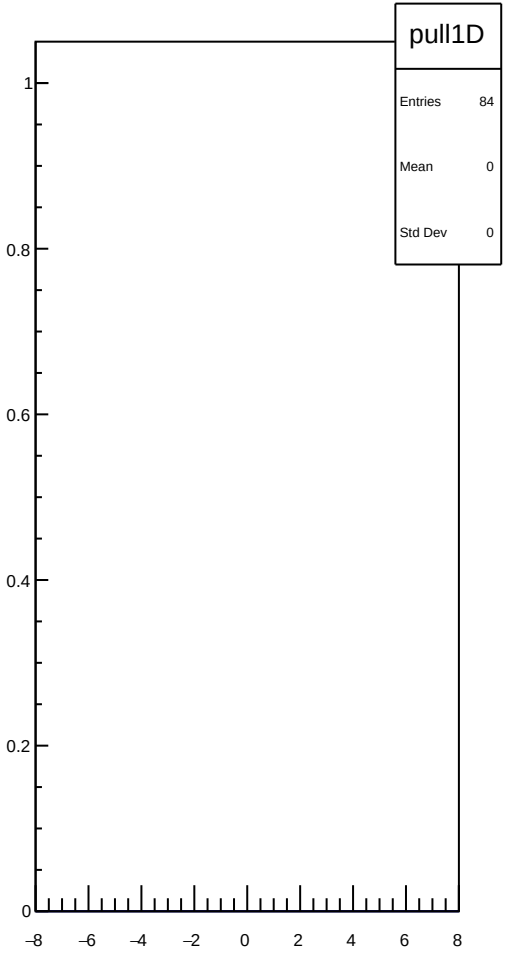

dit_atr1_coil6_Ndata_mean vs run
χ² / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean 0
Std Dev 0

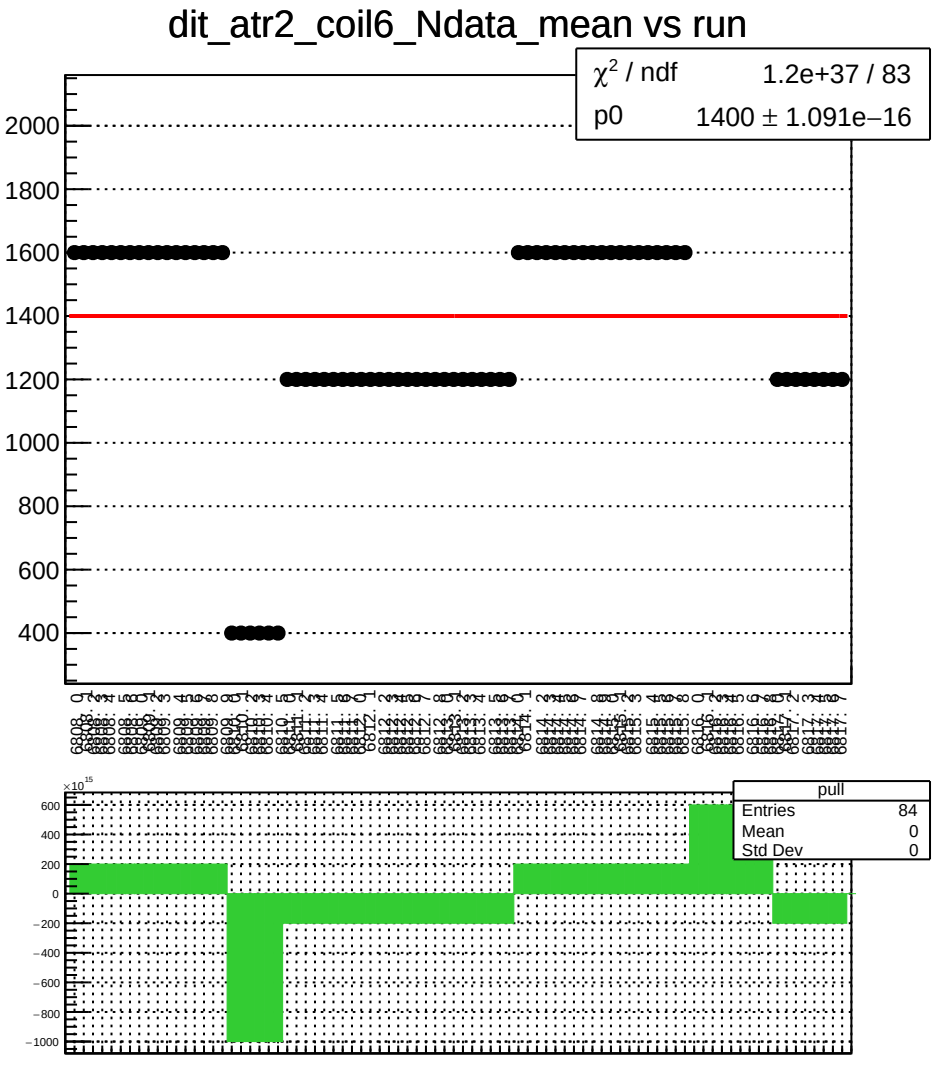

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

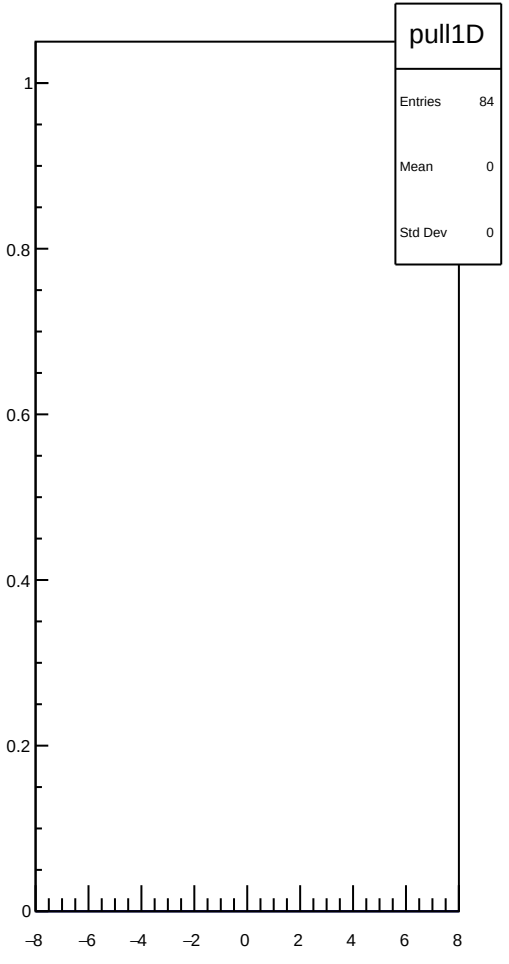

dit_atr2_coil6_mean vs run
χ² / ndf 1.109e+37 / 83
p0 −6510 ± 1.091e−16
−5600
−5800
−6000
−6200
−6400
−6600
−6800
pull
Entries 84
Mean 4.603e+06
Std Dev 4.606e+06
×10¹⁵
1000
800
600
400
200
0
−200
−400

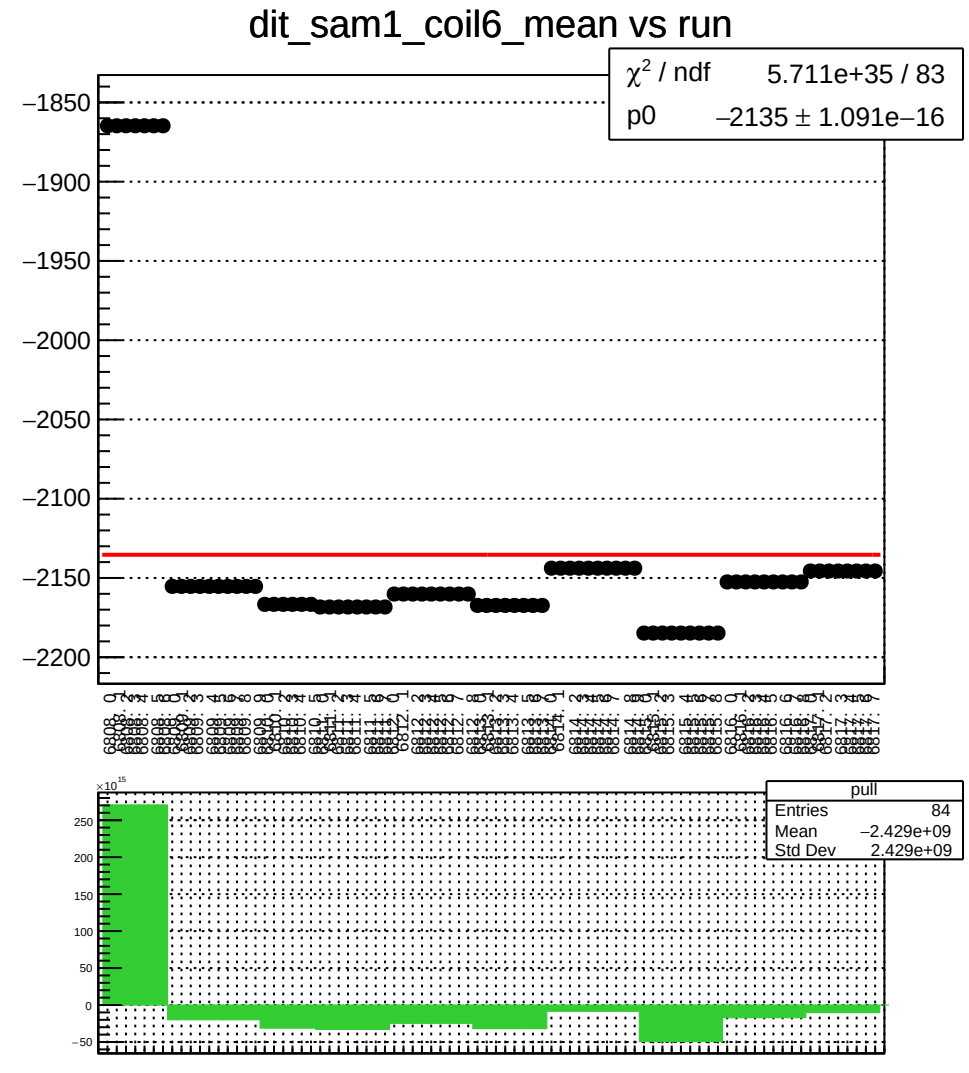

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

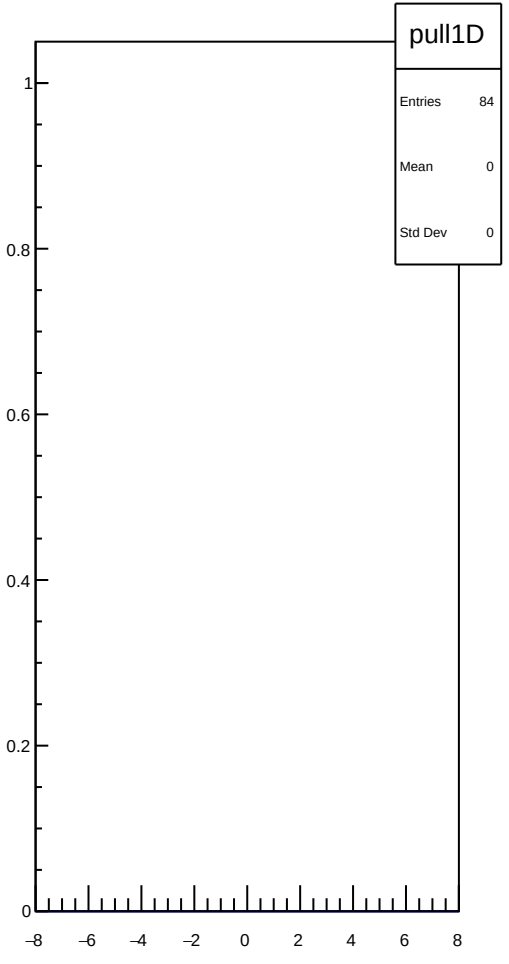

dit_atr2_coil6_err_mean vs run
χ² / ndf 5.801e+35 / 83
p0 432.4 ± 1.091e−16
650
600
550
500
450
400
350
300
pull
Entries 84
Mean 2.786e+08
Std Dev 2.786e+08
×10¹⁵
250
200
150
100
50
0
−50
−100

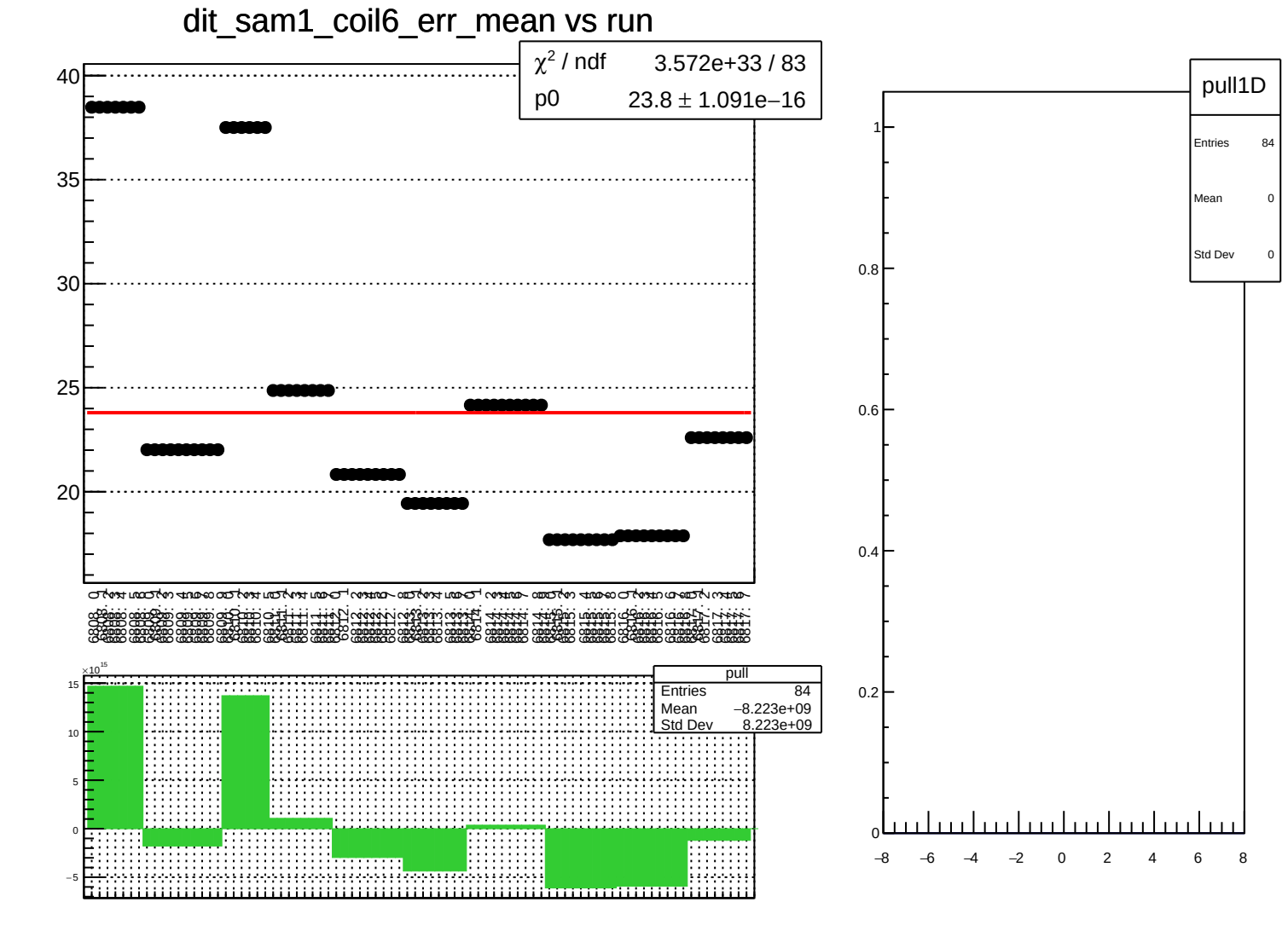

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

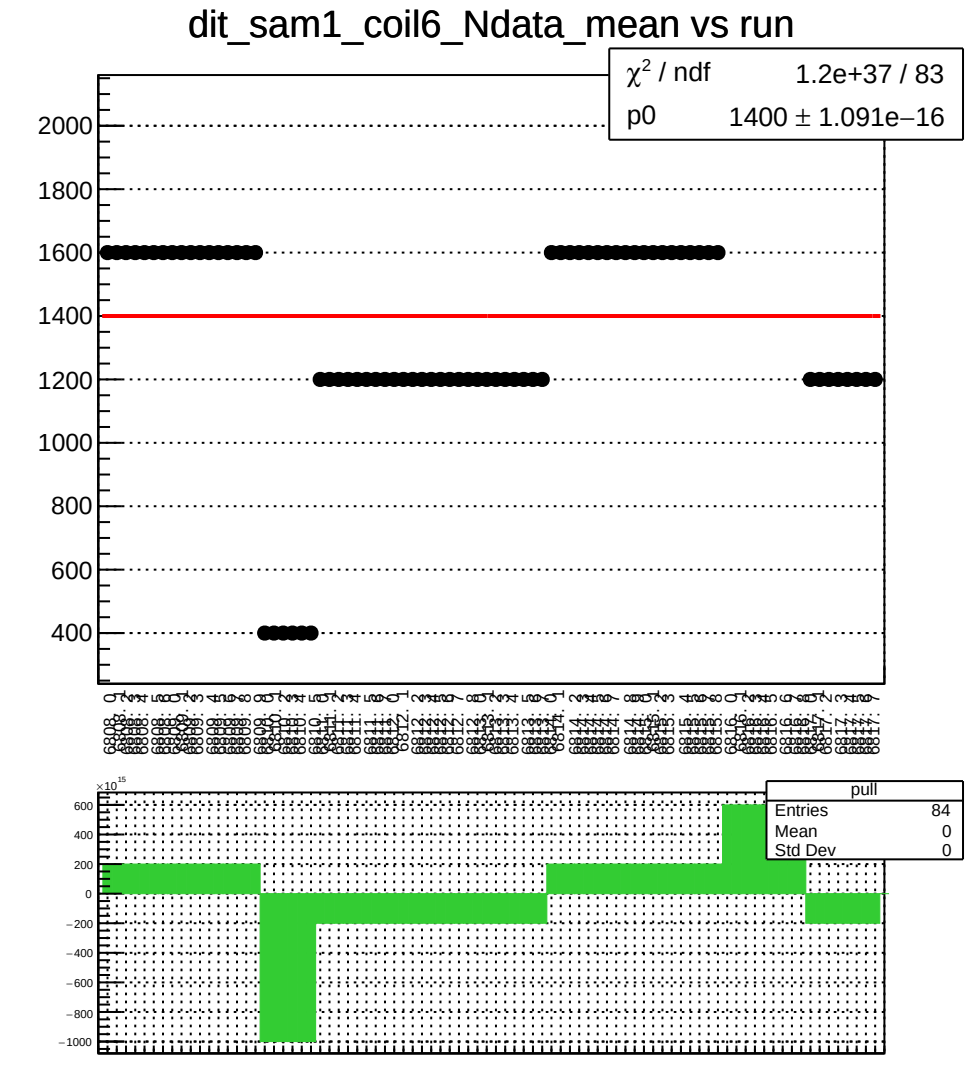

dit_atr2_coil6_Ndata_mean vs run
χ² / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean 0
Std Dev 0

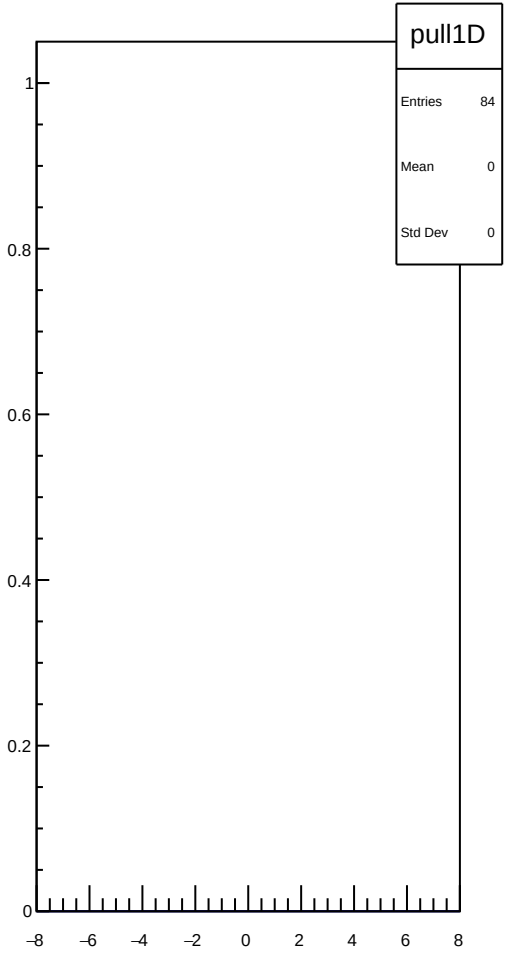

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

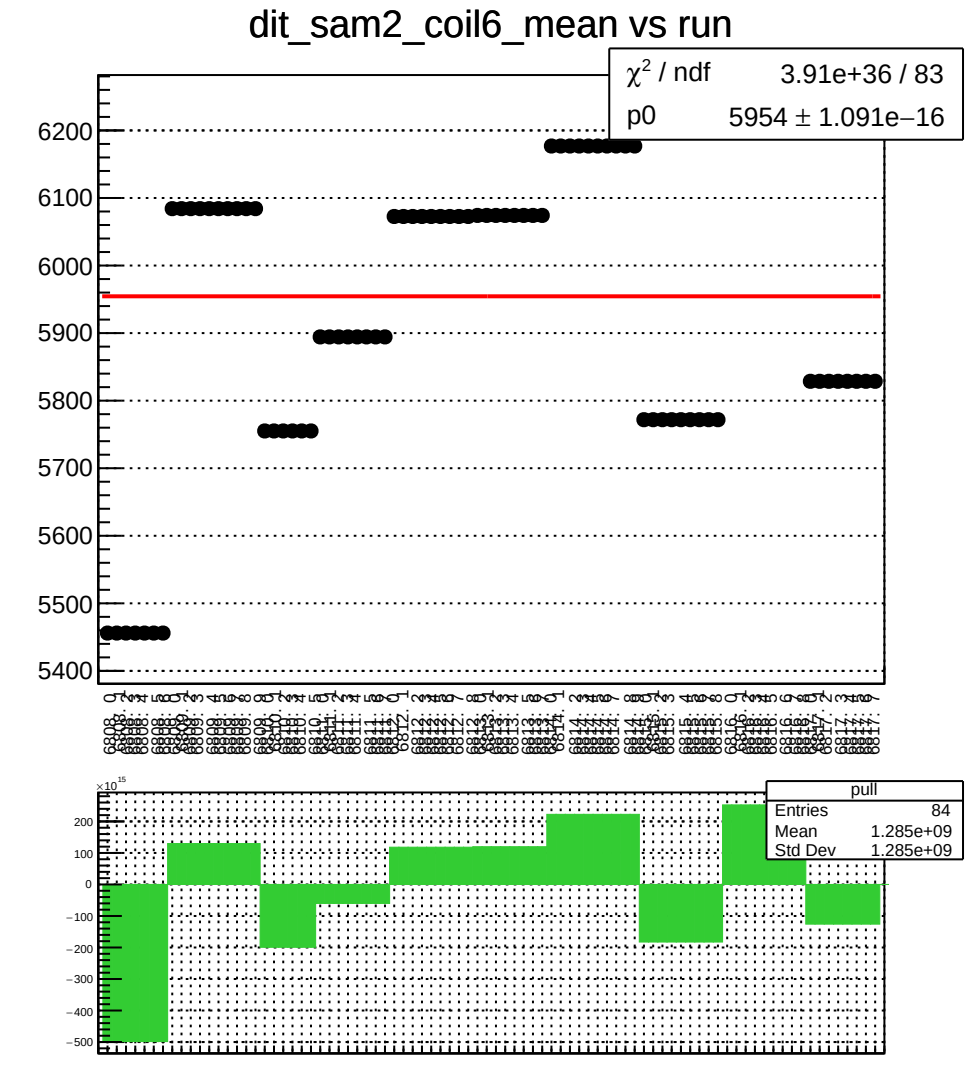

dit_sam1_coil6_mean vs run
χ² / ndf 5.711e+35 / 83
p0 −2135 ± 1.091e−16
−1850
−1900
−1950
−2000
−2050
−2100
−2150
−2200
pull
Entries 84
Mean −2.429e+09
Std Dev 2.429e+09
×10¹⁵
250
200
150
100
50
0
−50

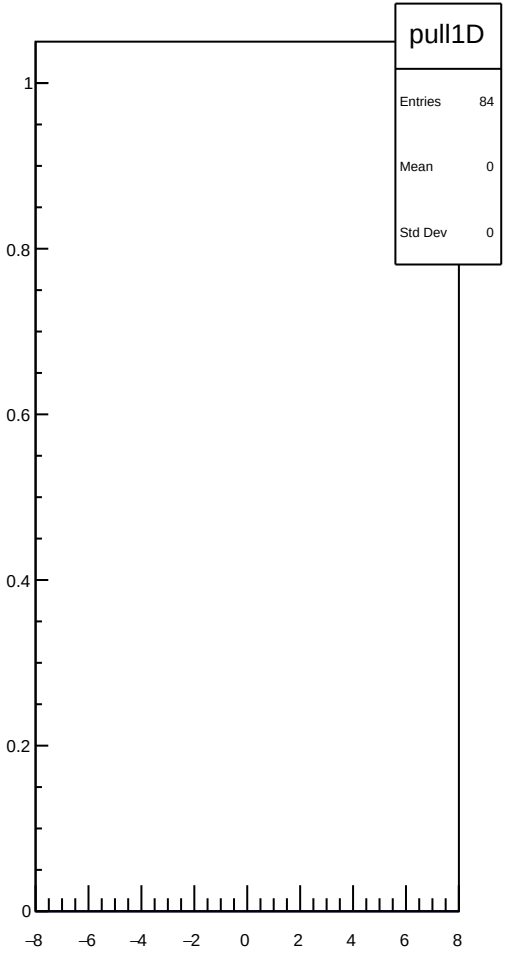

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

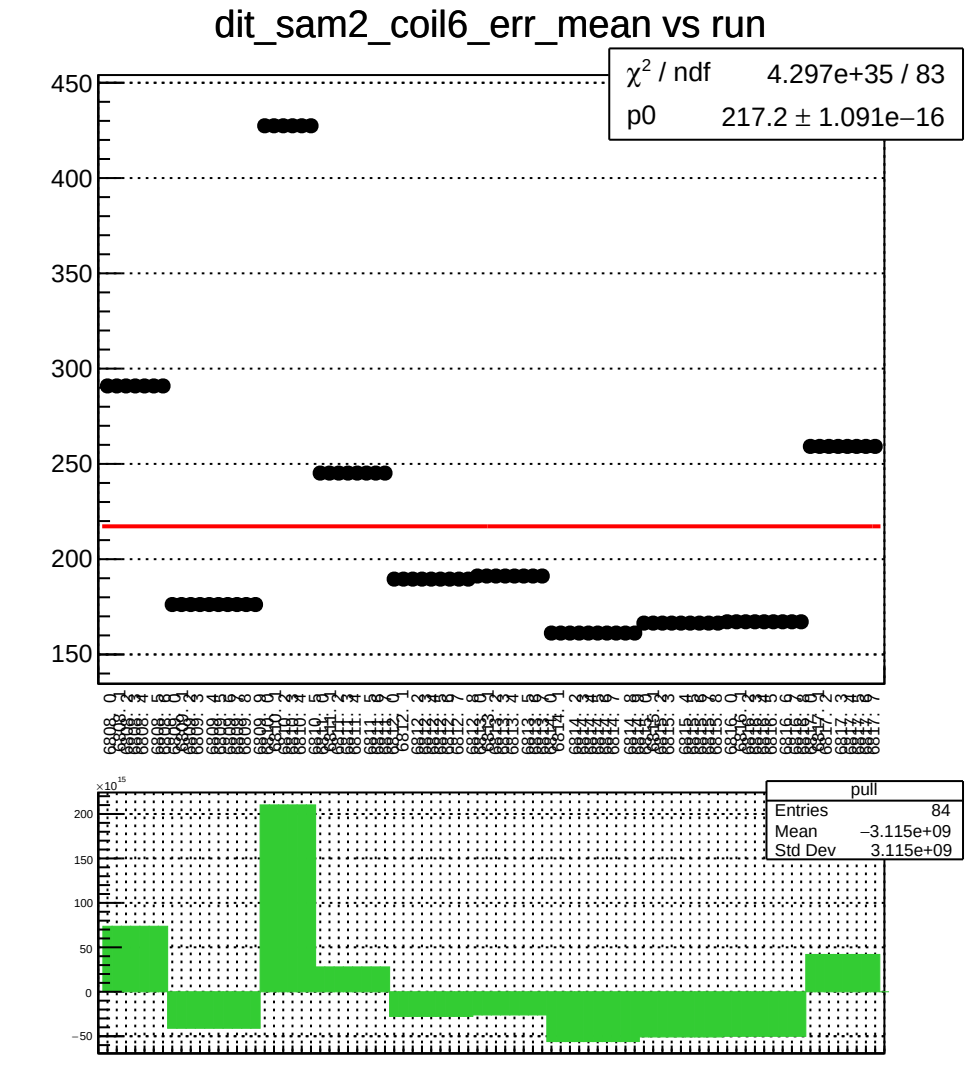

dit_sam1_coil6_err_mean vs run
χ² / ndf 3.572e+33 / 83
p0 23.8 ± 1.091e−16
40
35
30
25
20
pull
Entries 84
Mean −8.223e+09
Std Dev 8.223e+09
×10¹⁵
15
10
5
0
−5
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

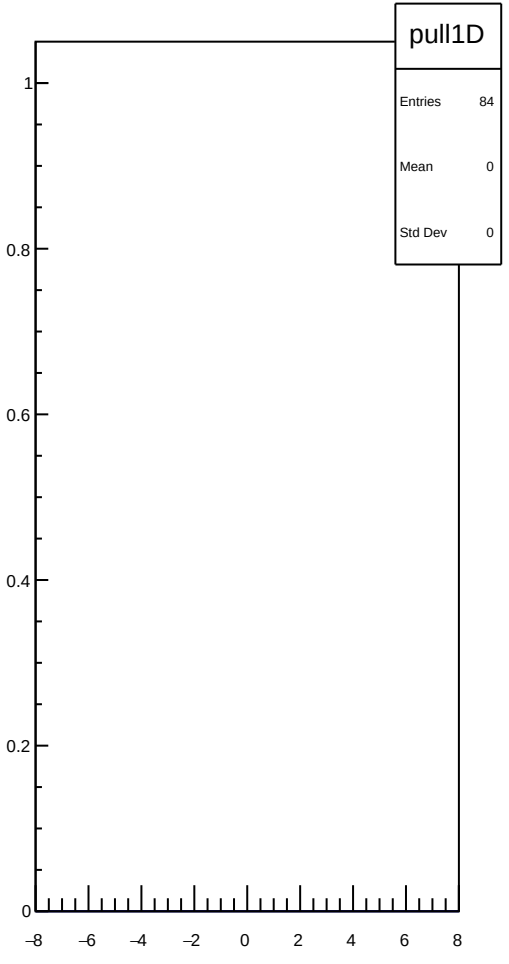

dit_sam1_coil6_Ndata_mean vs run
χ² / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 0
Std Dev 0
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

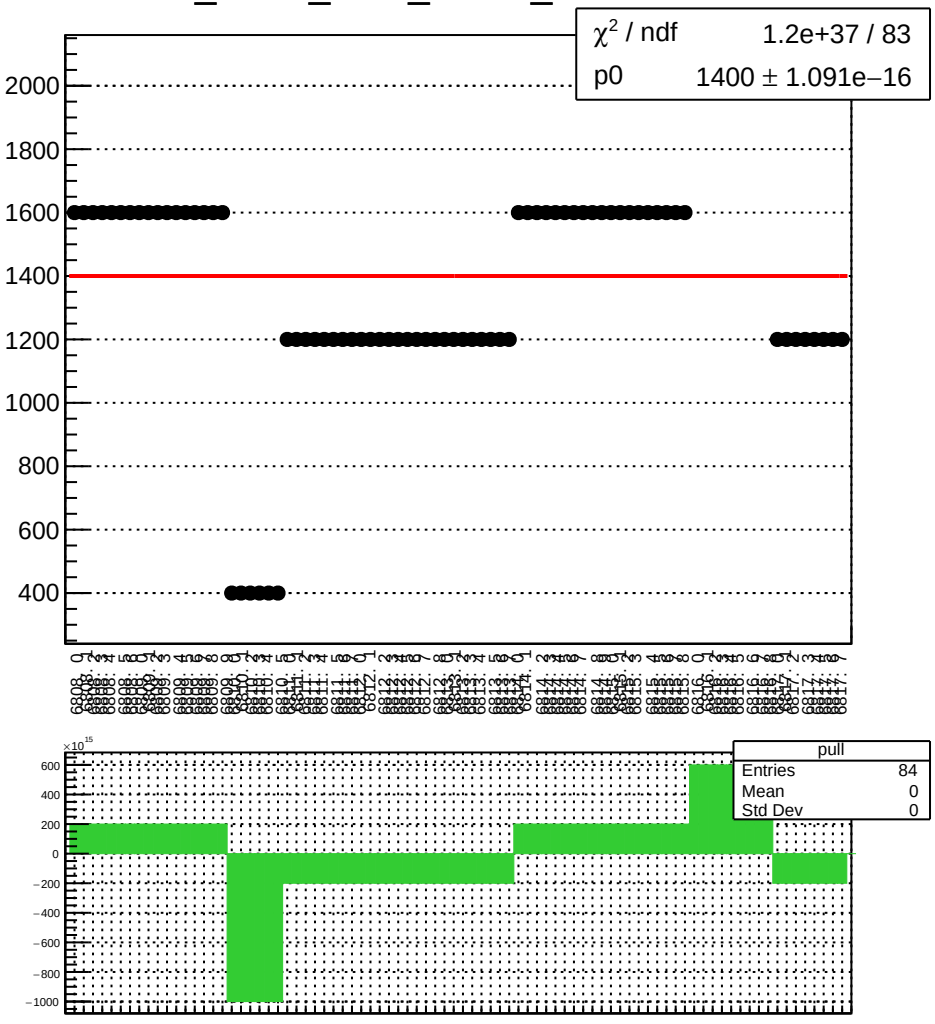

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

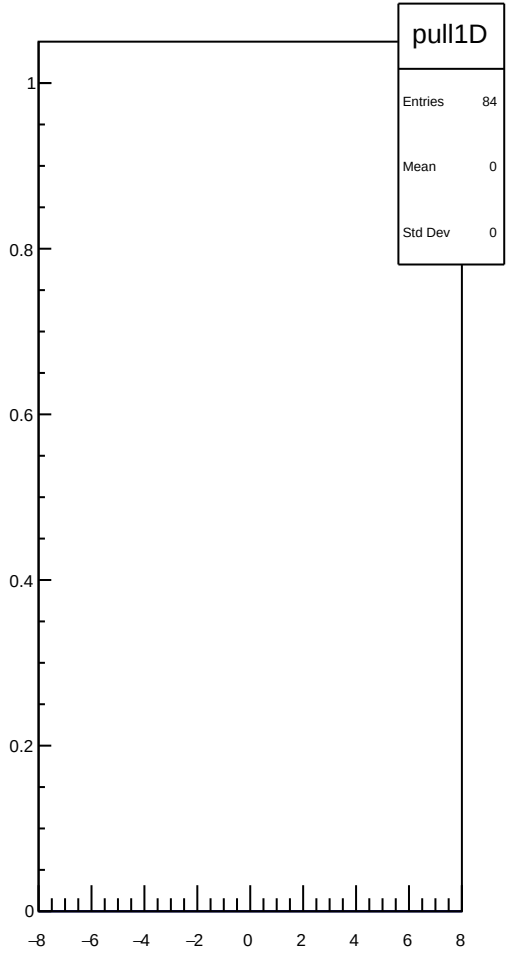

dit_sam2_coil6_mean vs run
χ² / ndf 3.91e+36 / 83
p0 5954 ± 1.091e−16
6200
6100
6000
5900
5800
5700
5600
5500
5400
pull
Entries 84
Mean 1.285e+09
Std Dev 1.285e+09
×10¹⁵
200
100
0
−100
−200
−300
−400
−500

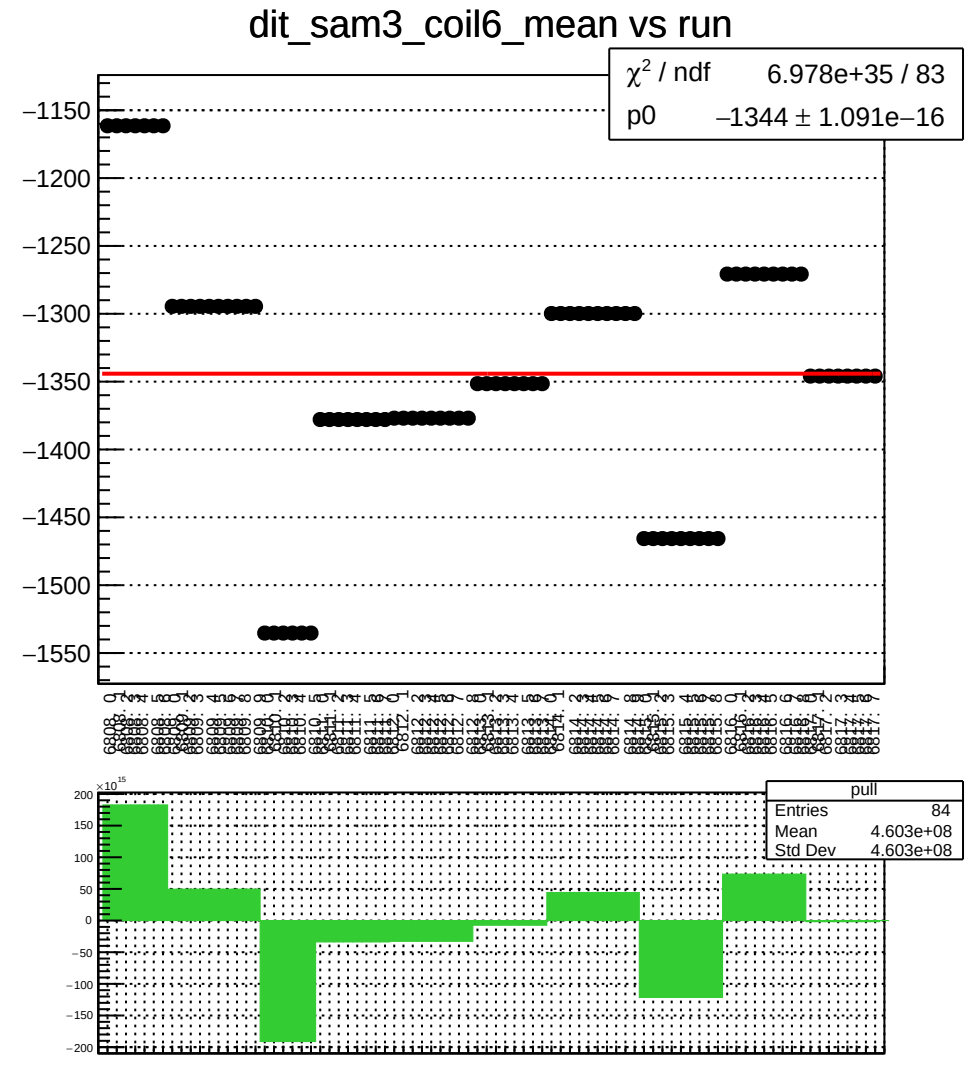

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

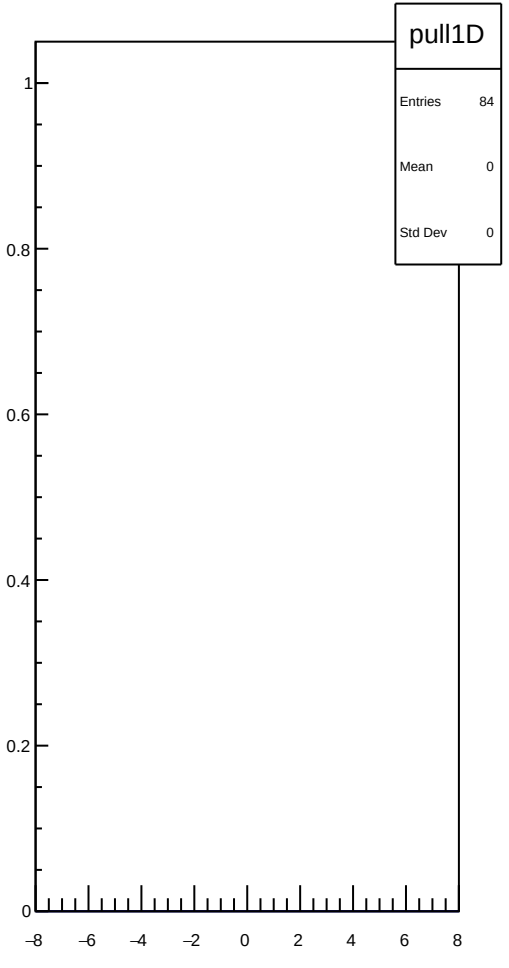

dit_sam2_coil6_err_mean vs run
χ² / ndf 4.297e+35 / 83
p0 217.2 ± 1.091e−16
450
400
350
300
250
200
150
pull
Entries 84
Mean −3.115e+09
Std Dev 3.115e+09
×10¹⁵
200
150
100
50
0
−50

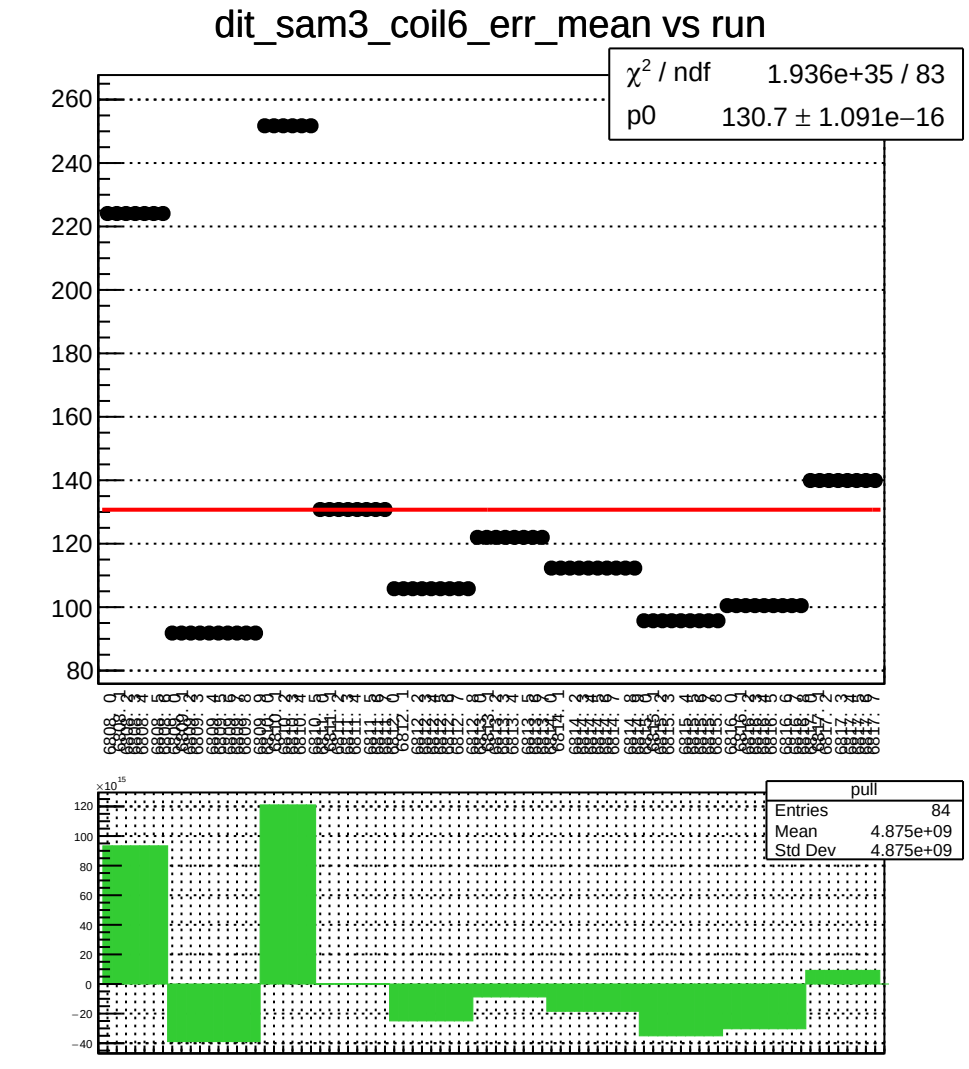

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

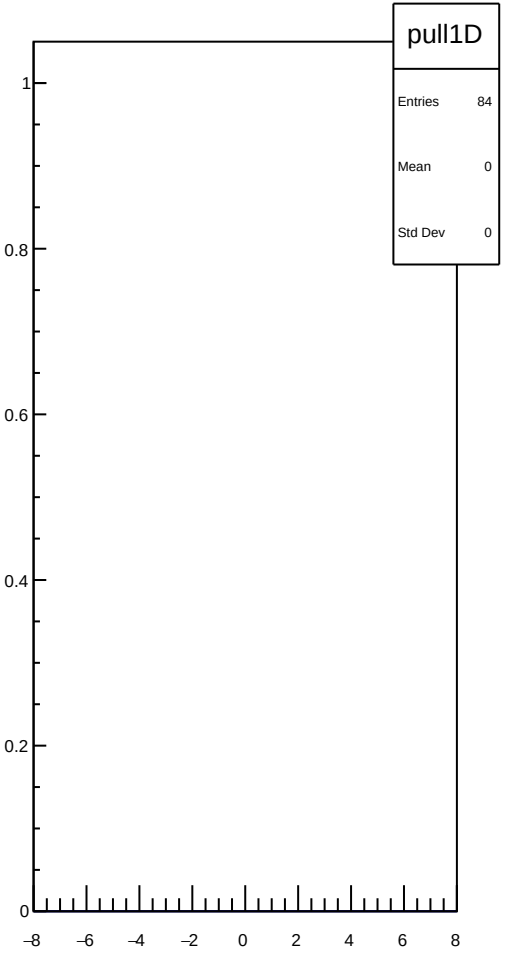

dit_sam2_coil6_Ndata_mean vs run
χ² / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean 0
Std Dev 0

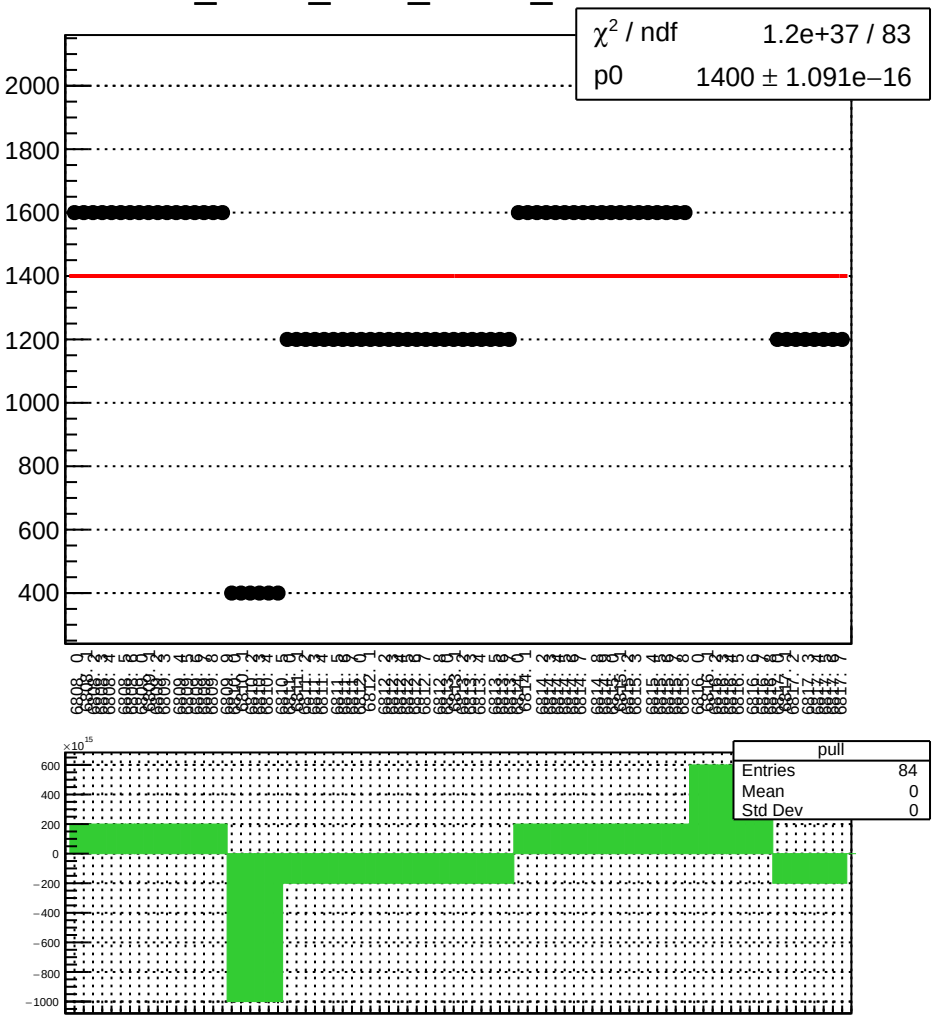

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

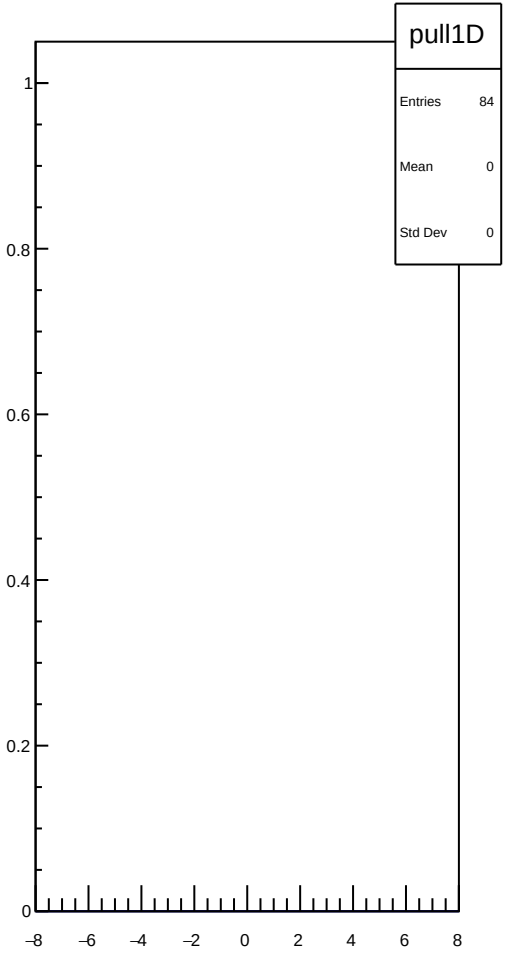

dit_sam3_coil6_mean vs run
χ² / ndf 6.978e+35 / 83
p0 −1344 ± 1.091e−16
−1150
−1200
−1250
−1300
−1350
−1400
−1450
−1500
−1550
pull
Entries 84
Mean 4.603e+08
Std Dev 4.603e+08
×10¹⁵
200
150
100
50
0
−50
−100
−150
−200

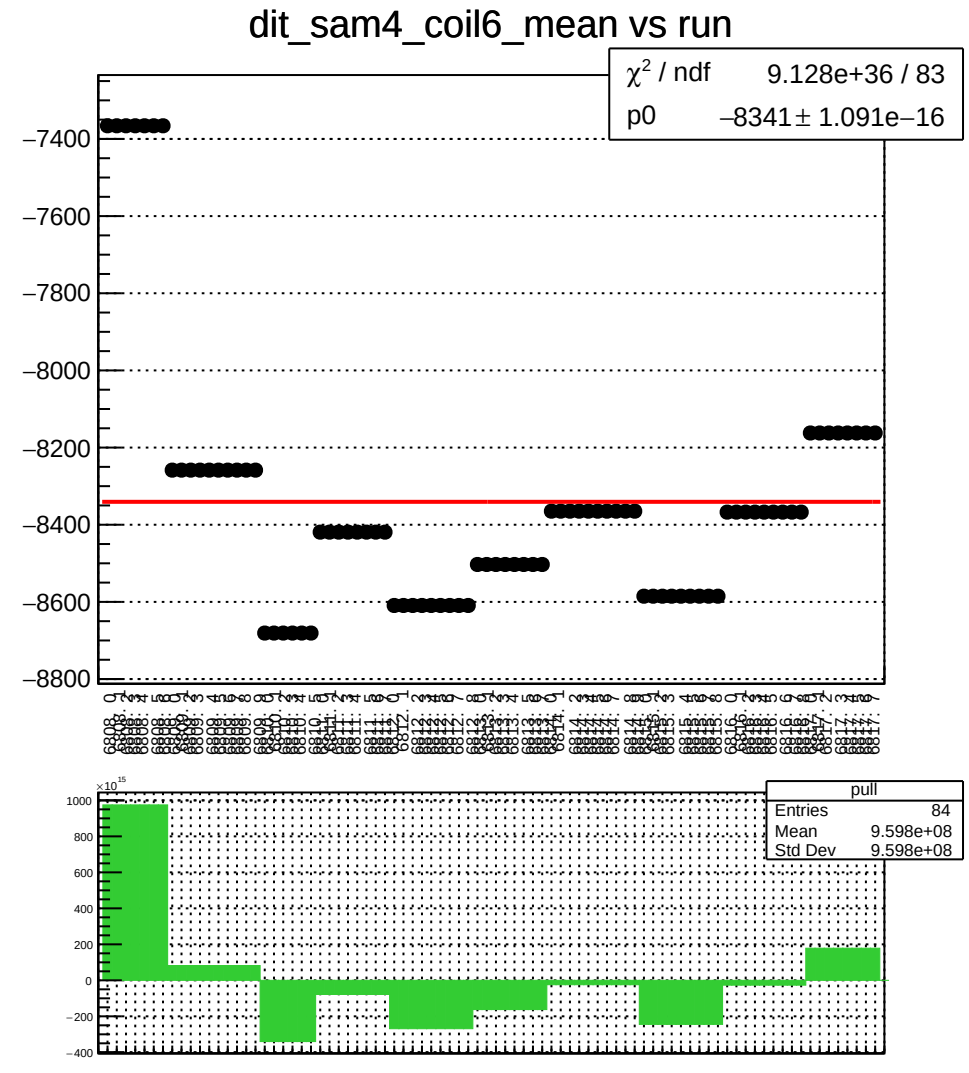

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

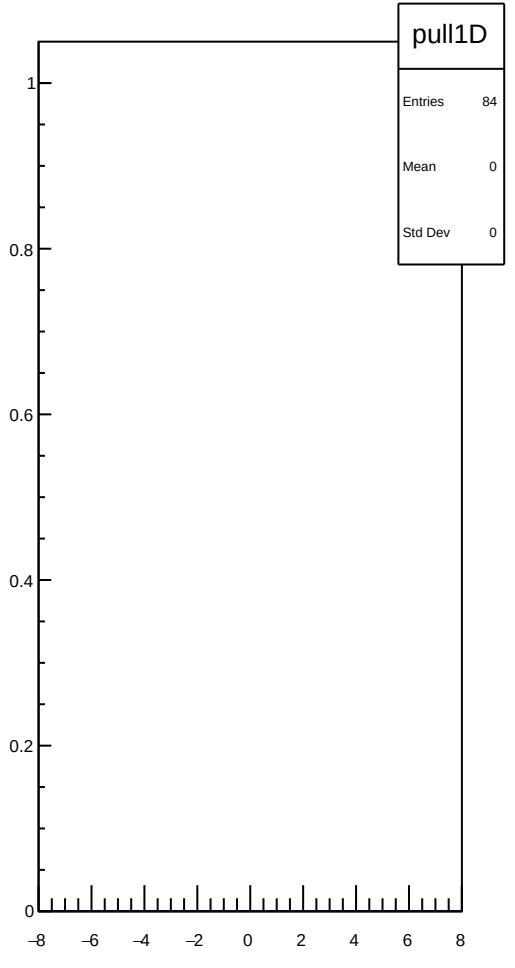

dit_sam3_coil6_err_mean vs run
χ² / ndf 1.936e+35 / 83
p0 130.7 ± 1.091e−16
pull
Entries 84
Mean 4.875e+09
Std Dev 4.875e+09

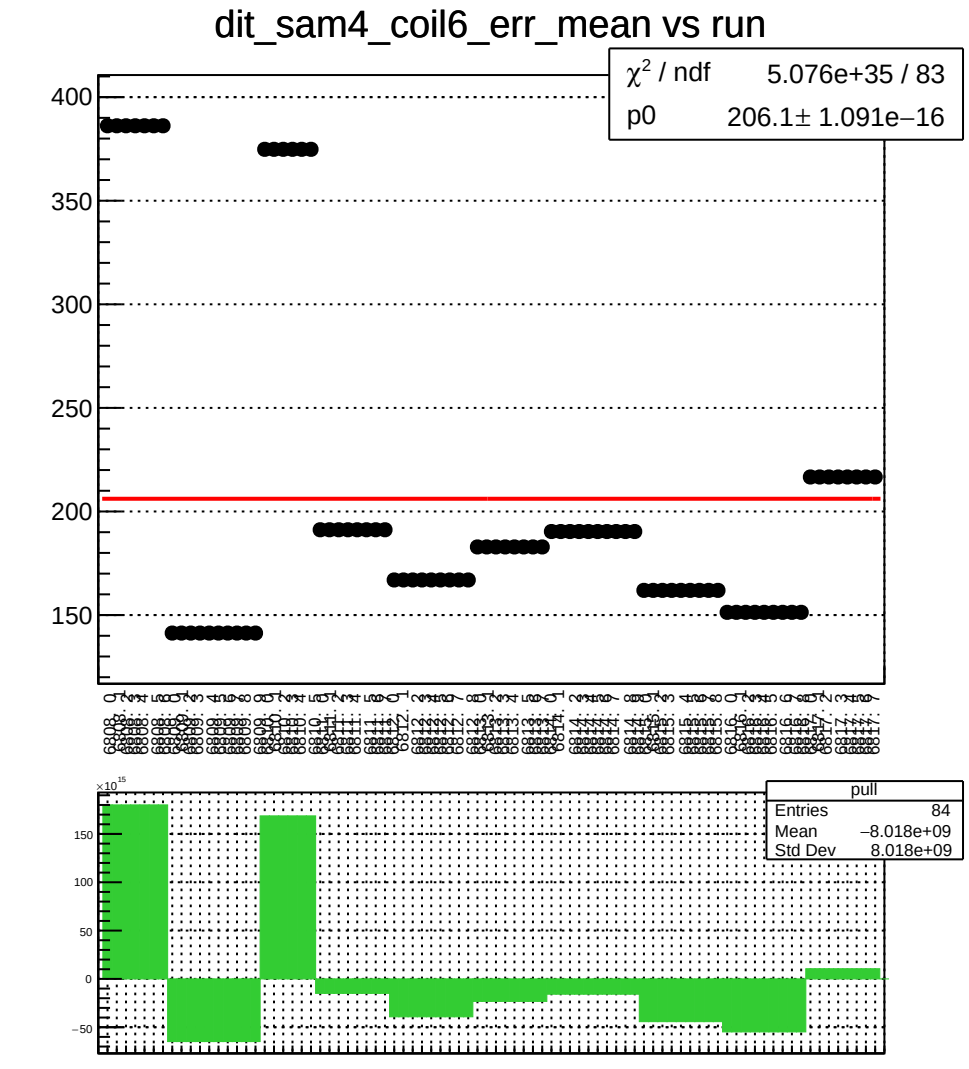

pull1D
Entries 84
Mean 0
Std Dev 0

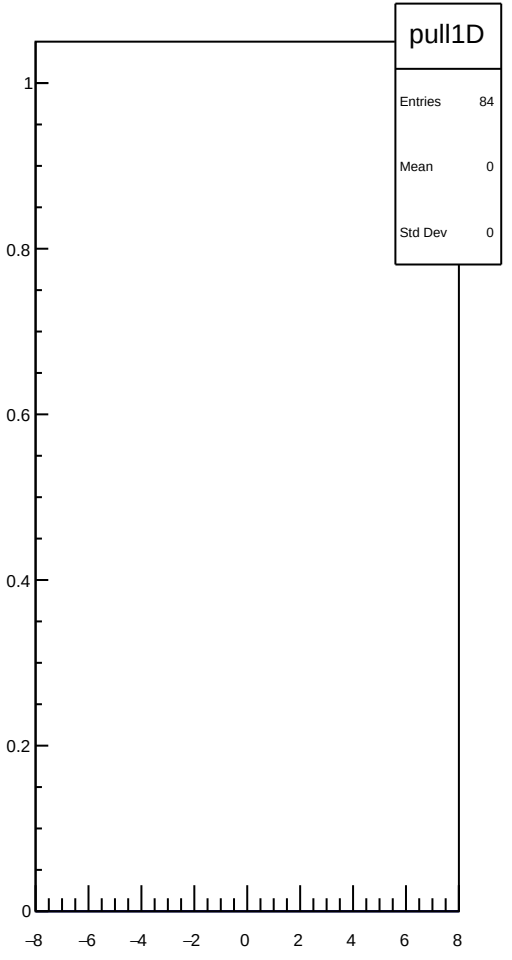

dit_sam3_coil6_Ndata_mean vs run
χ² / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean 0
Std Dev 0

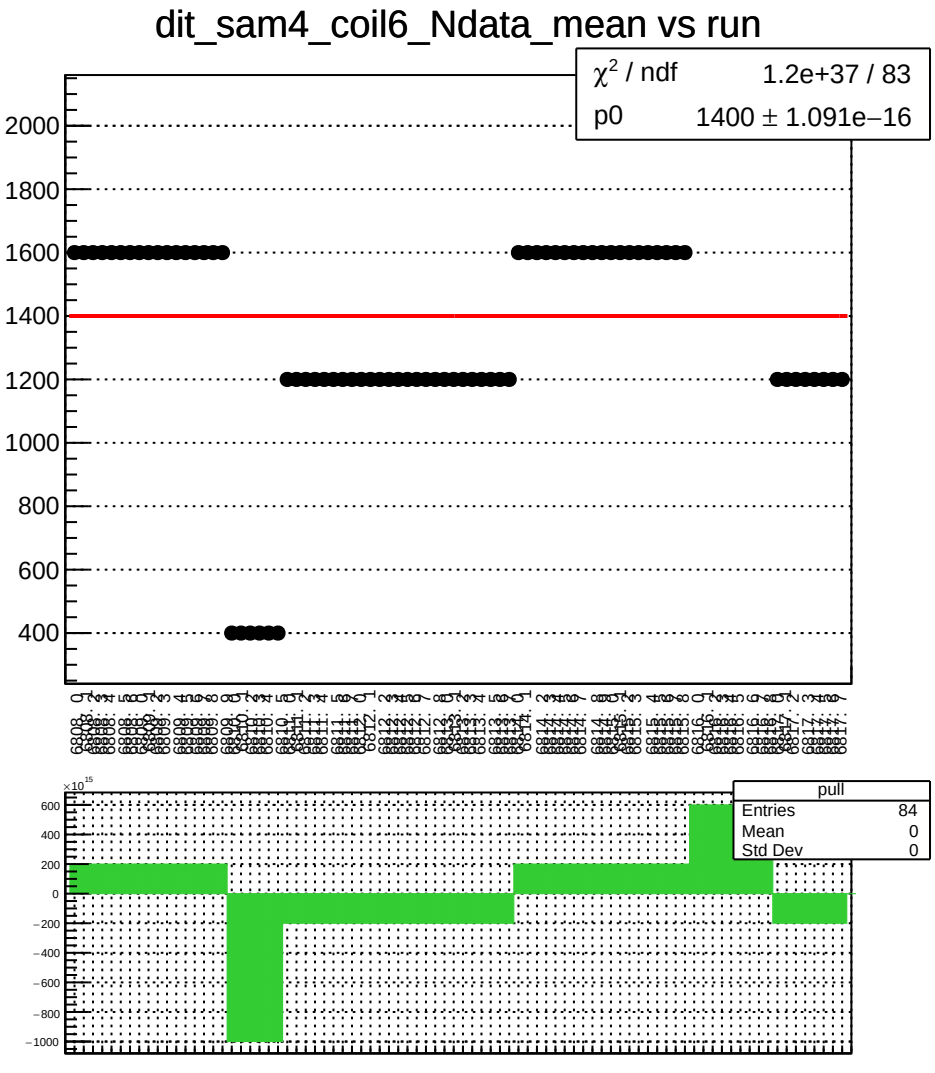

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

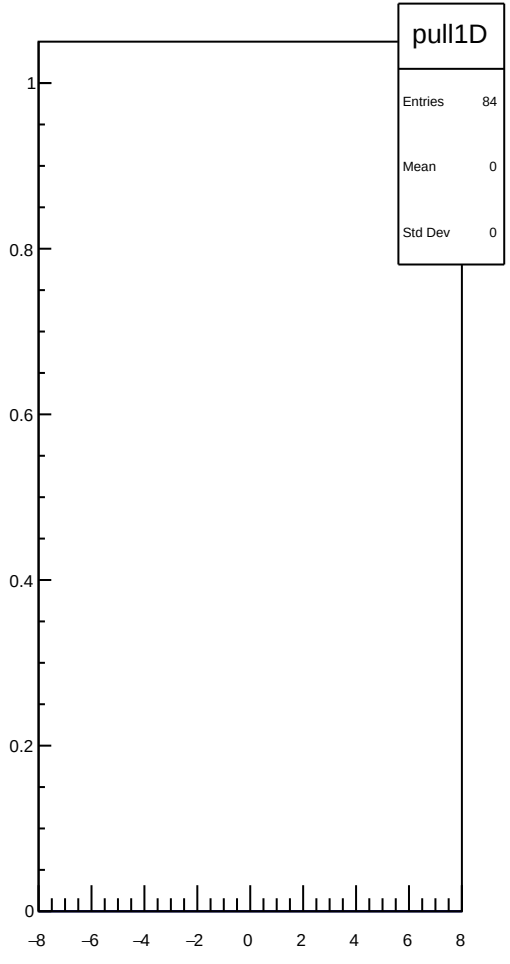

dit_sam4_coil6_mean vs run
χ² / ndf 9.128e+36 / 83
p0 −8341 ± 1.091e−16
−7400
−7600
−7800
−8000
−8200
−8400
−8600
−8800
pull
Entries 84
Mean 9.598e+08
Std Dev 9.598e+08
×10¹⁵
1000
800
600
400
200
0
−200
−400

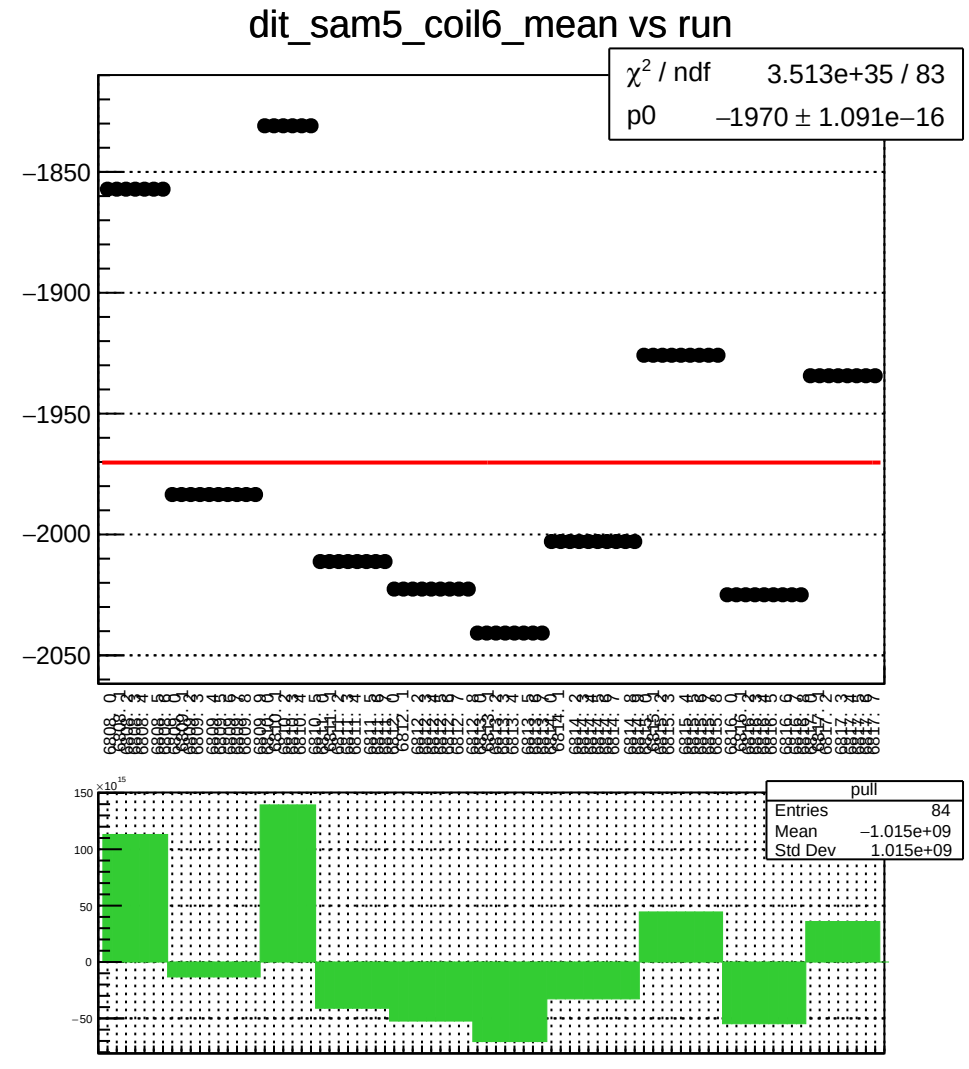

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

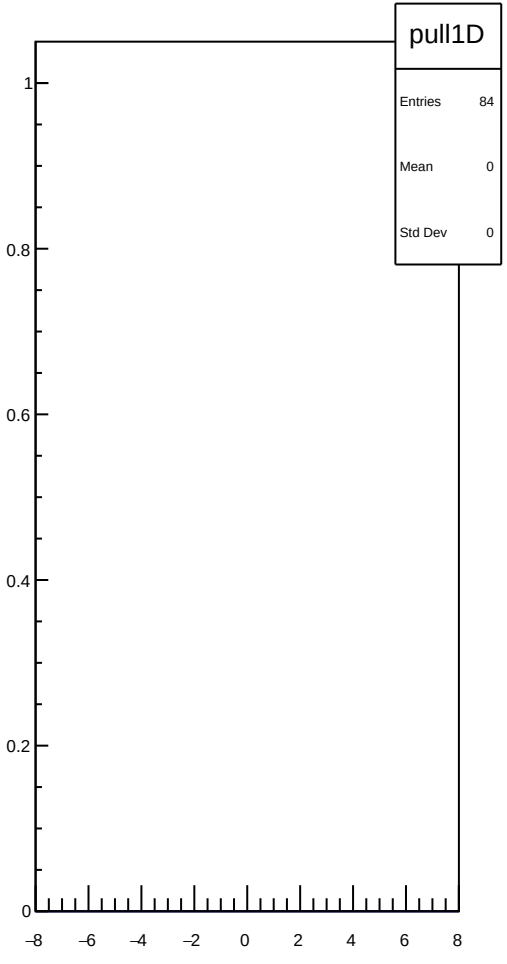

dit_sam4_coil6_err_mean vs run
χ² / ndf 5.076e+35 / 83
p0 206.1± 1.091e−16
400
350
300
250
200
150
pull
Entries 84
Mean −8.018e+09
Std Dev 8.018e+09
×10¹⁵
150
100
50
0
−50

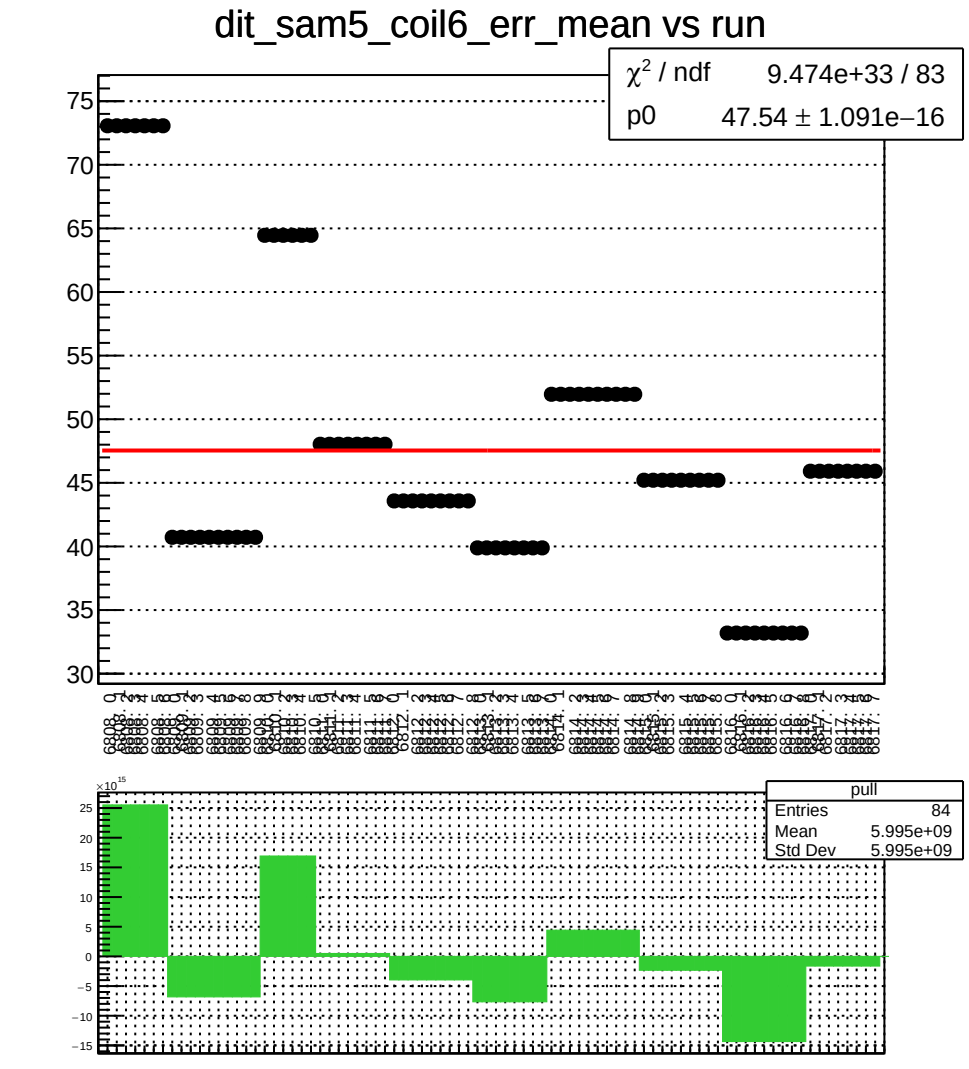

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

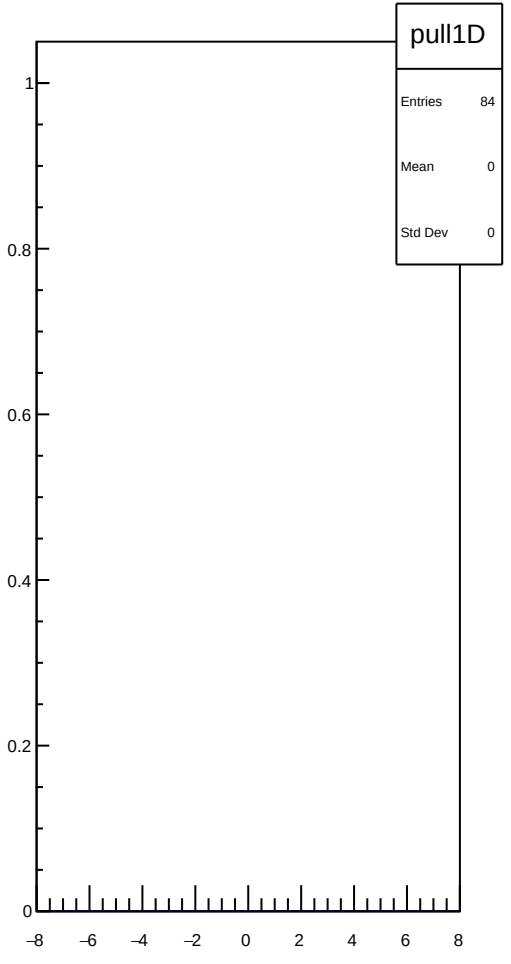

dit_sam4_coil6_Ndata_mean vs run
χ² / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 0
Std Dev 0
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

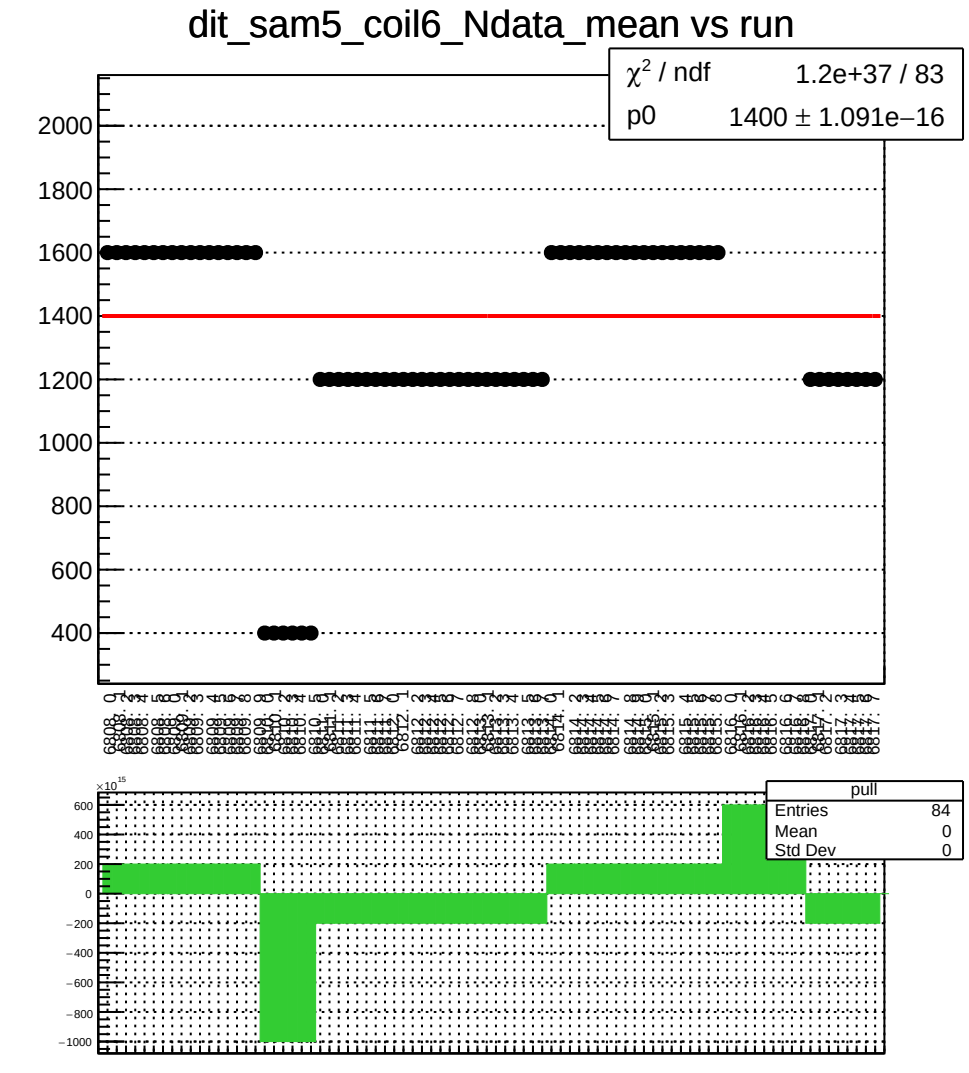

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

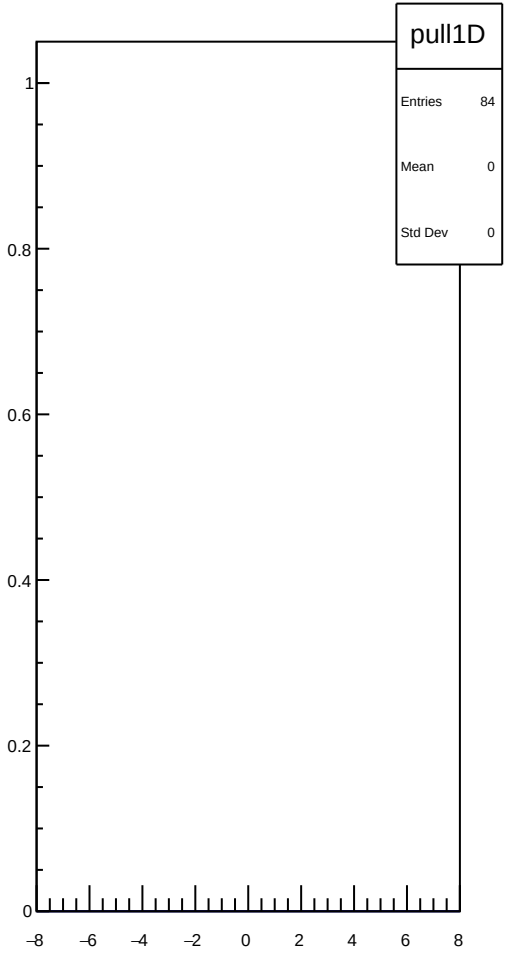

dit_sam5_coil6_mean vs run
χ² / ndf 3.513e+35 / 83
p0 −1970 ± 1.091e−16
−1850
−1900
−1950
−2000
−2050
pull
Entries 84
Mean −1.015e+09
Std Dev 1.015e+09
×10¹⁵
150
100
50
0
−50

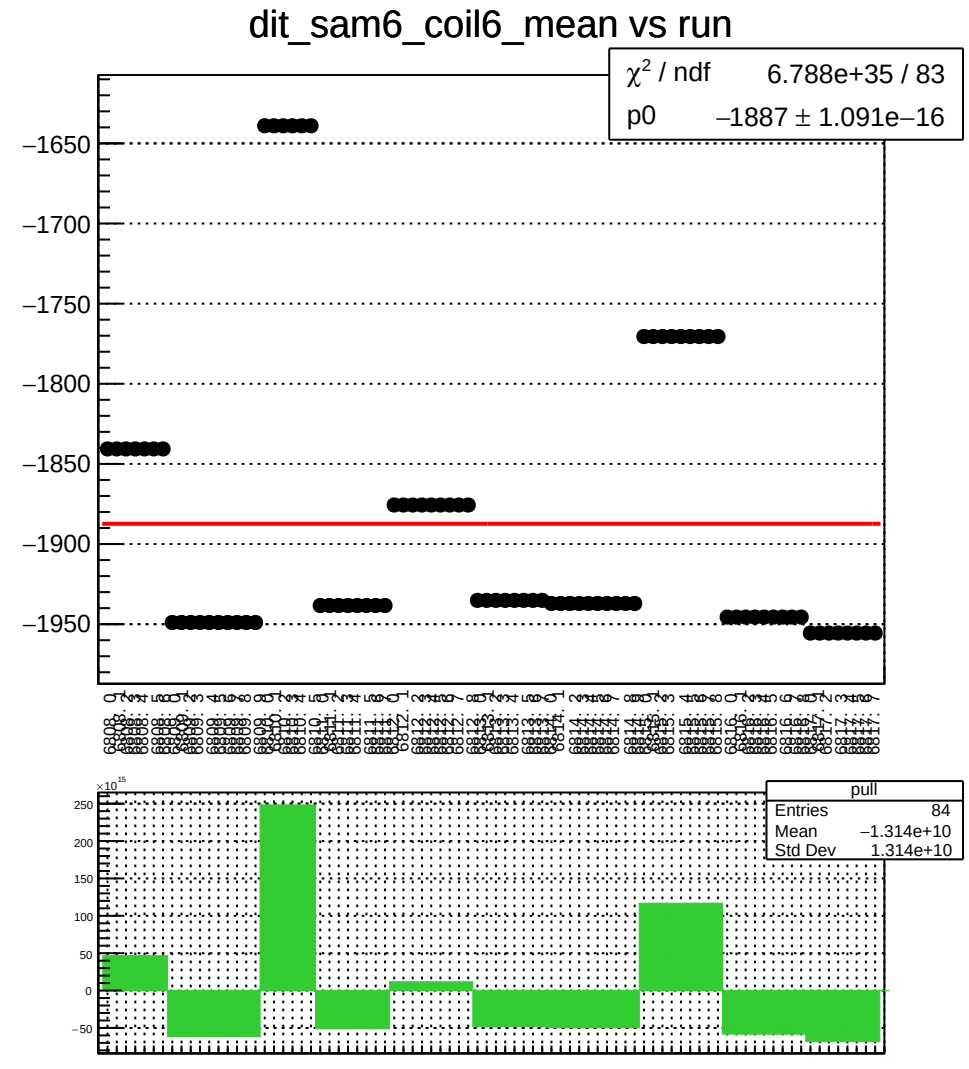

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

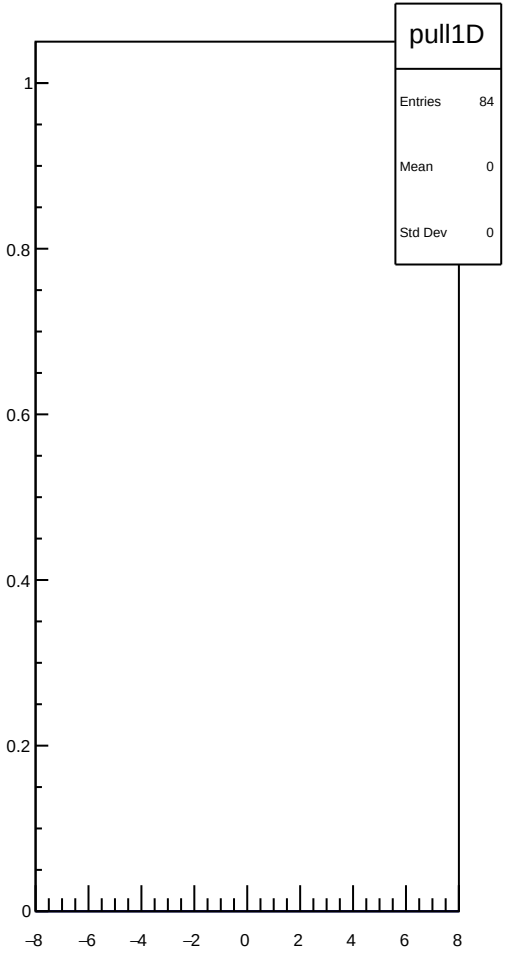

dit_sam5_coil6_err_mean vs run
χ² / ndf 9.474e+33 / 83
p0 47.54 ± 1.091e−16
pull
Entries 84
Mean 5.995e+09
Std Dev 5.995e+09

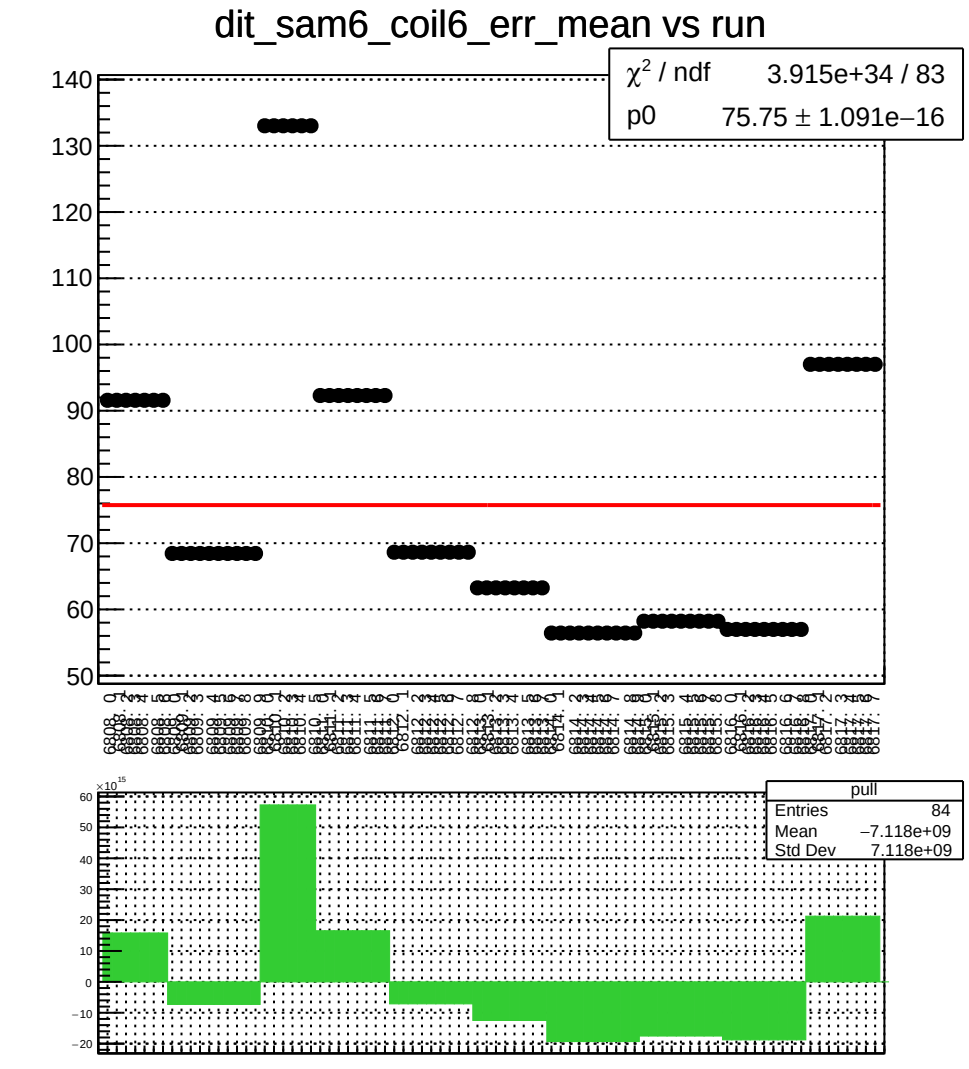

pull1D
Entries 84
Mean 0
Std Dev 0

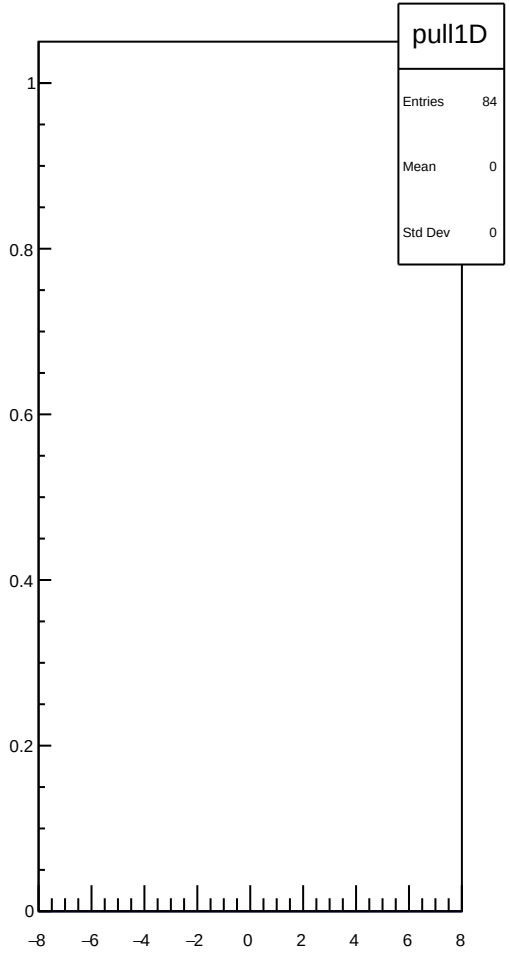

dit_sam5_coil6_Ndata_mean vs run
χ² / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 0
Std Dev 0
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

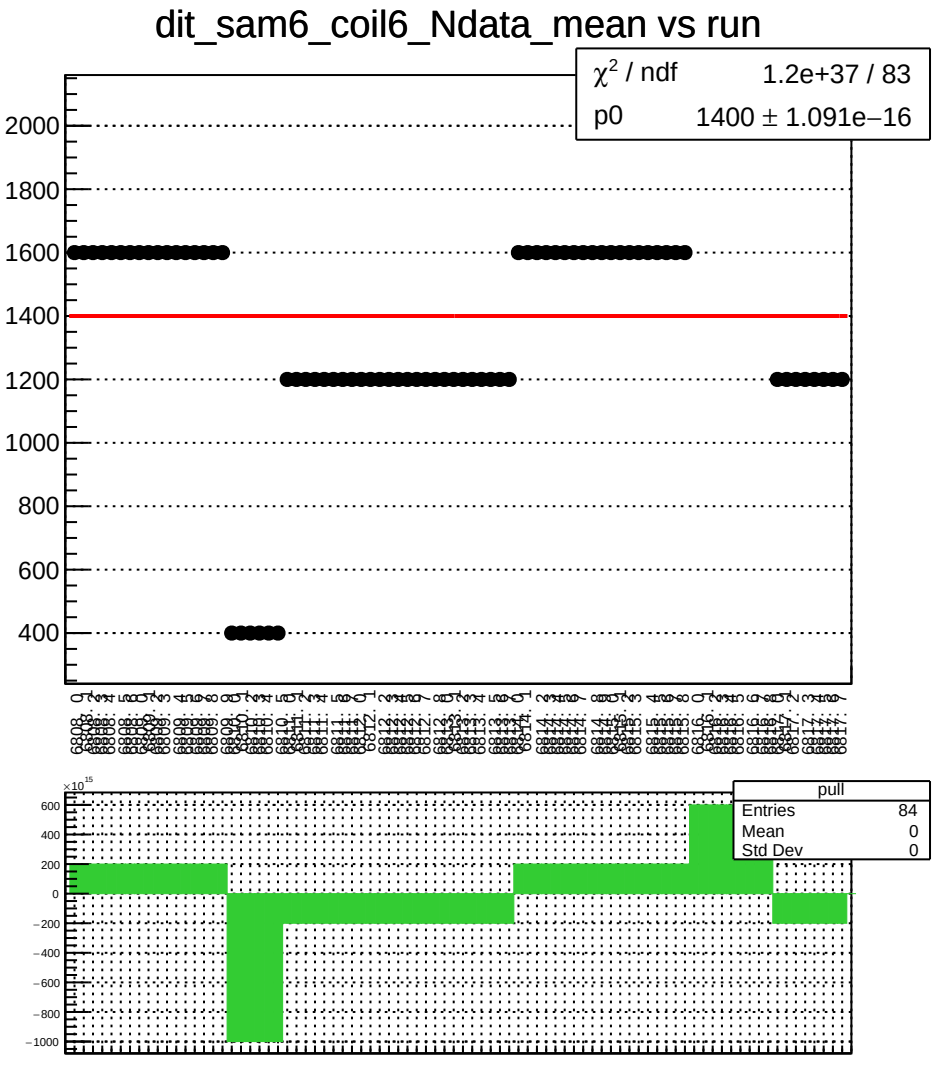

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

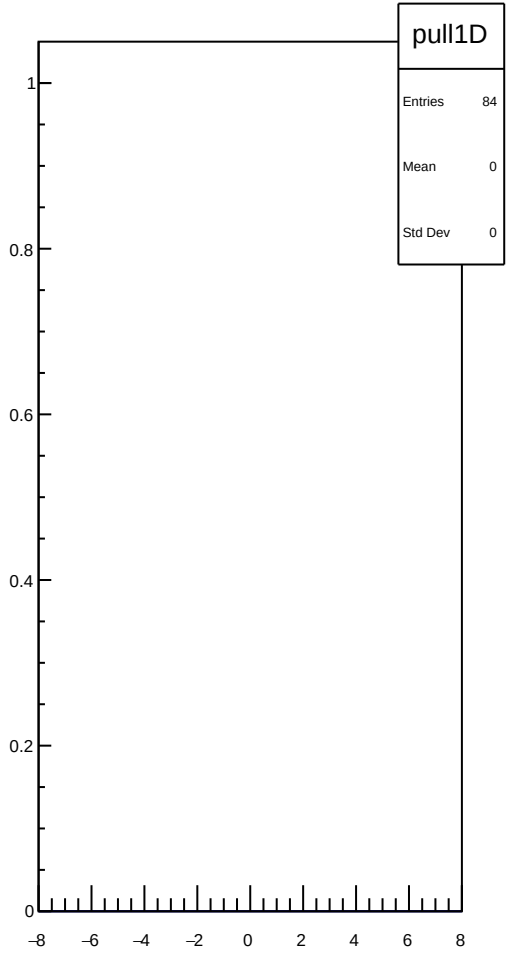

dit_sam6_coil6_mean vs run
χ² / ndf 6.788e+35 / 83
p0 −1887 ± 1.091e−16
−1650
−1700
−1750
−1800
−1850
−1900
−1950
pull
Entries 84
Mean −1.314e+10
Std Dev 1.314e+10
×10¹⁵
250
200
150
100
50
0
−50

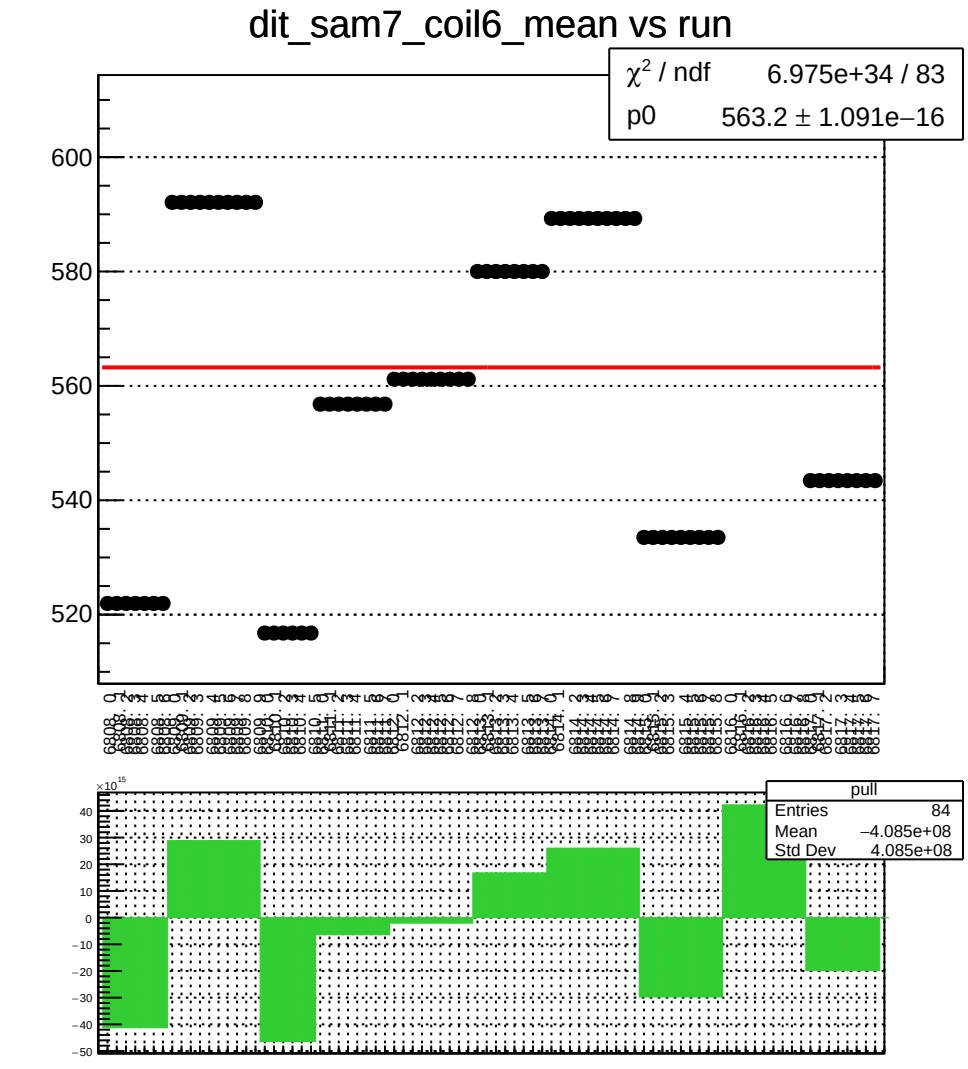

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

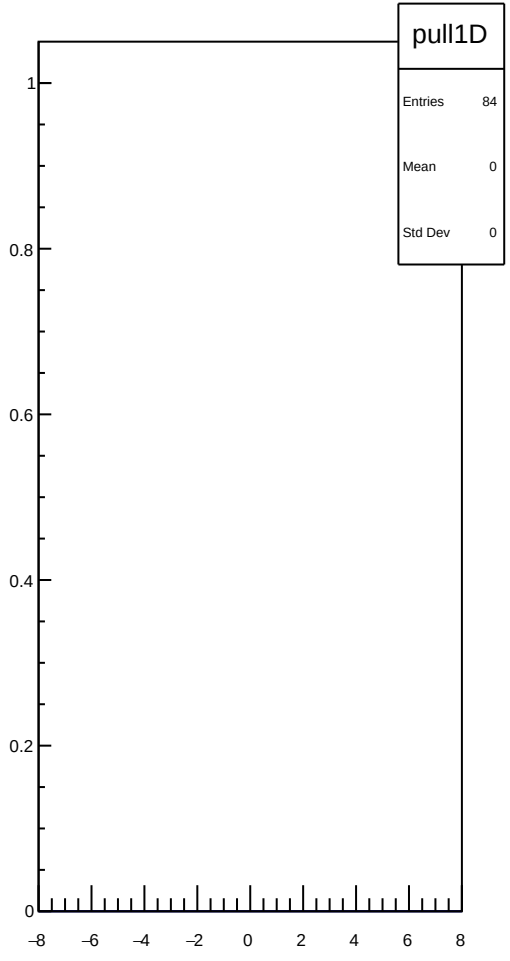

dit_sam6_coil6_err_mean vs run
χ² / ndf 3.915e+34 / 83
p0 75.75 ± 1.091e−16
pull
Entries 84
Mean −7.118e+09
Std Dev 7.118e+09
×10¹⁵

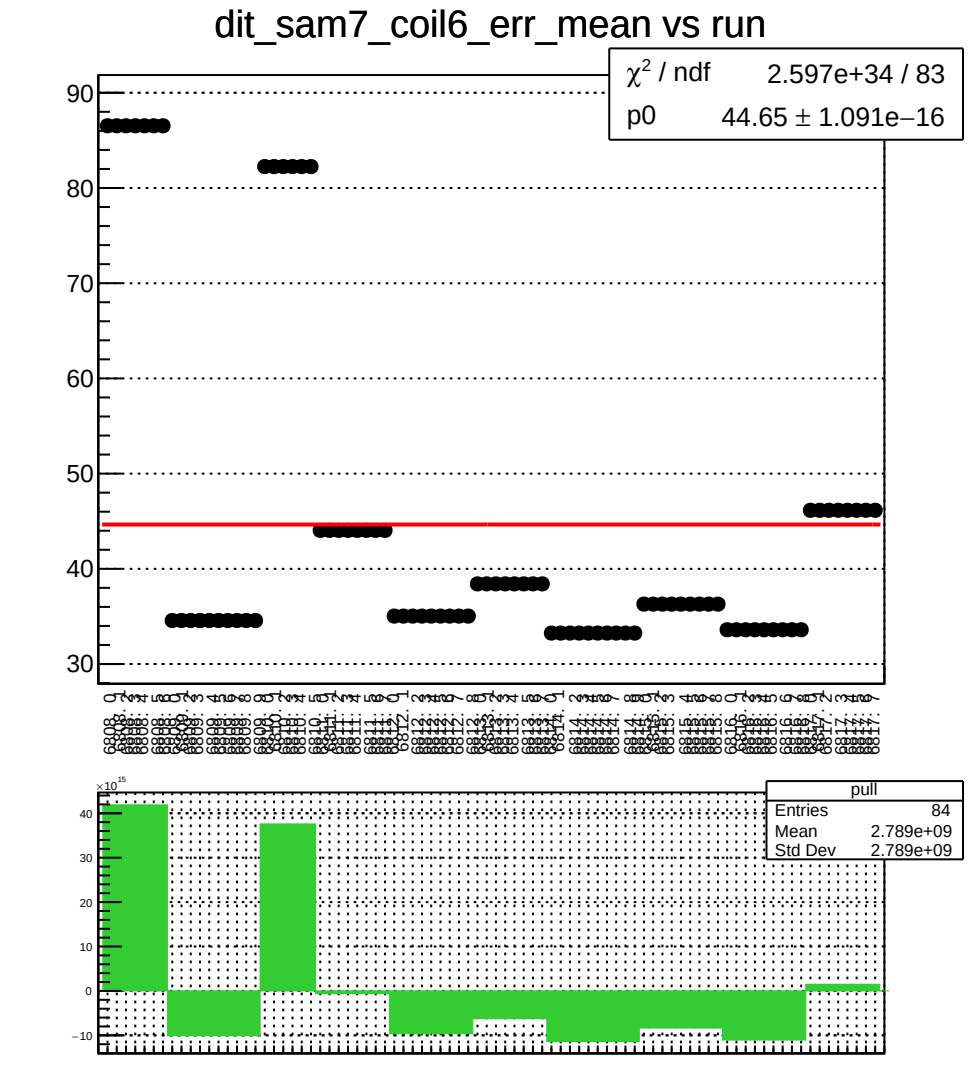

pull1D
Entries 84
Mean 0
Std Dev 0

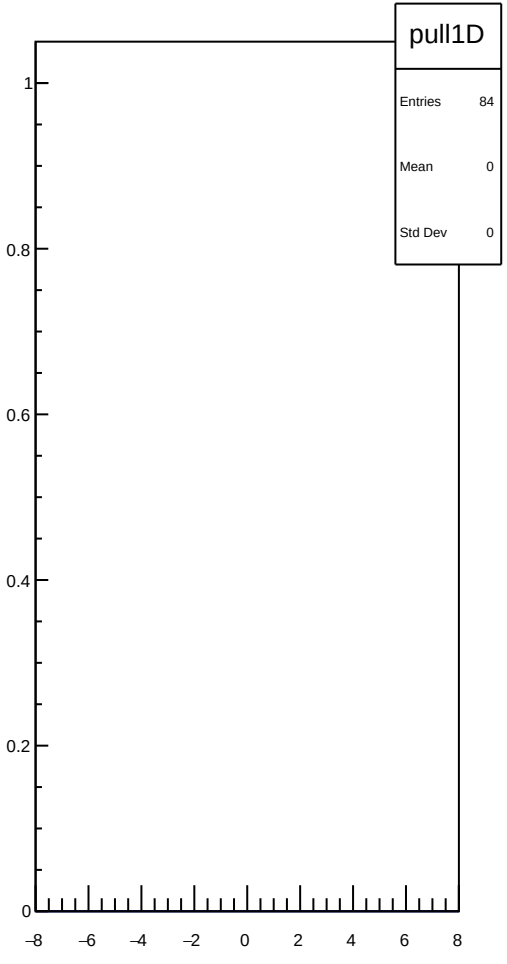

dit_sam6_coil6_Ndata_mean vs run
χ^2 / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 0
Std Dev 0
×10^15
600
400
200
0
−200
−400
−600
−800
−1000

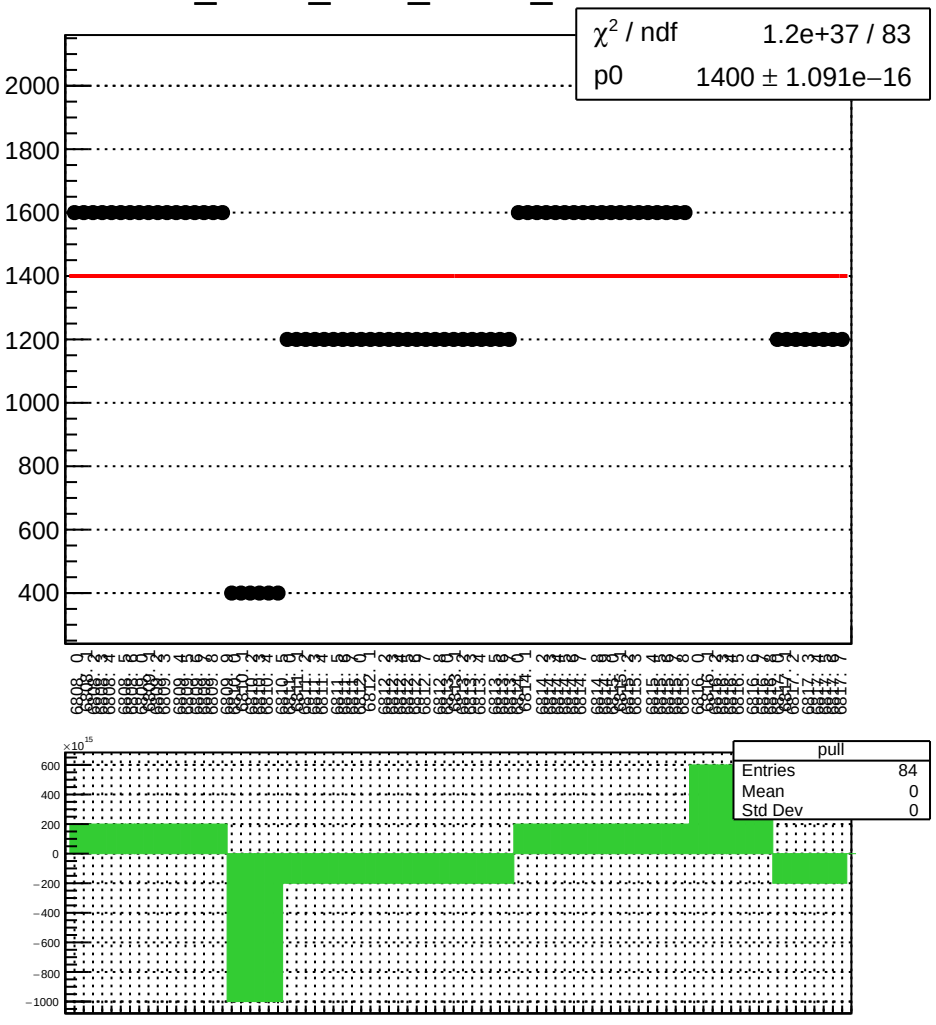

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

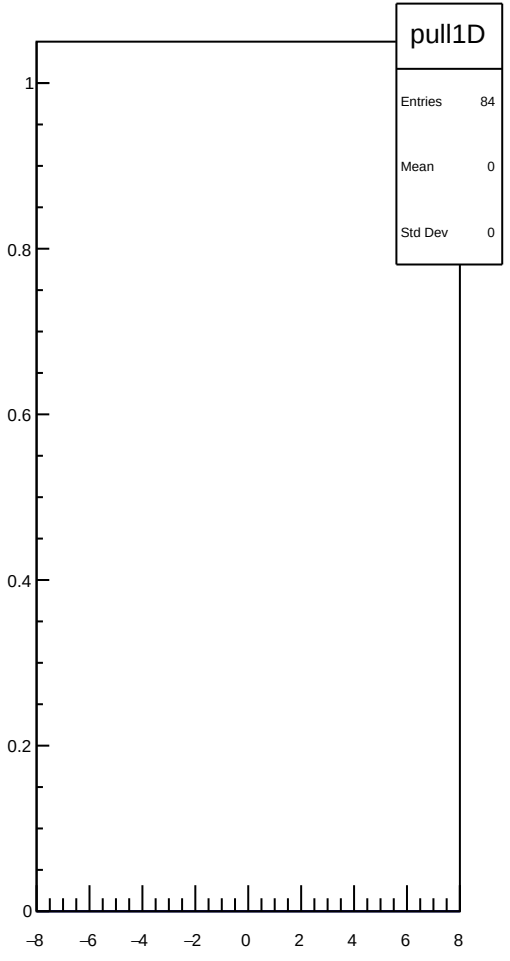

dit_sam7_coil6_mean vs run
χ² / ndf 6.975e+34 / 83
p0 563.2 ± 1.091e−16
600
580
560
540
520
pull
Entries 84
Mean −4.085e+08
Std Dev 4.085e+08
×10¹⁵
40
30
20
10
0
−10
−20
−30
−40
−50

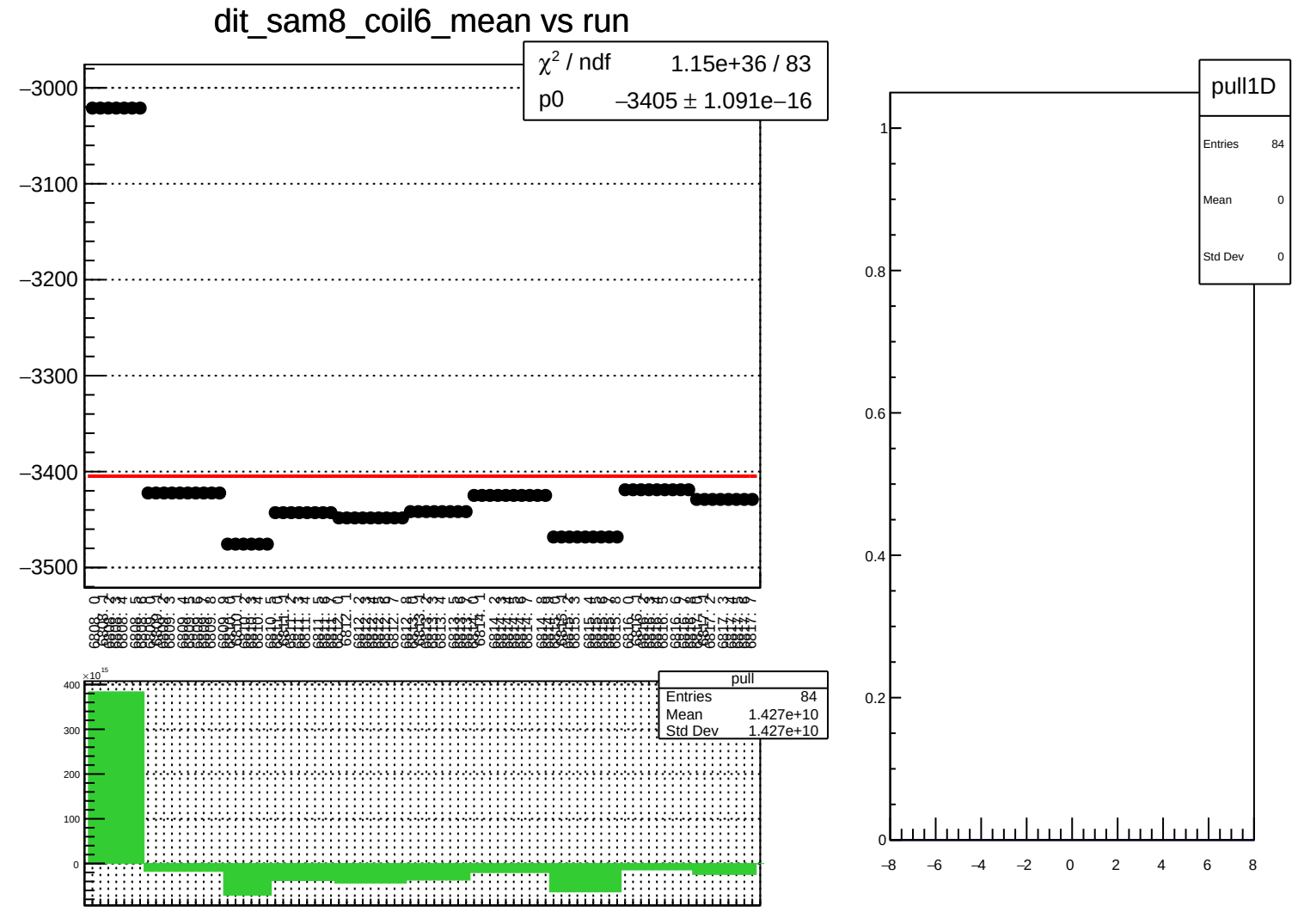

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

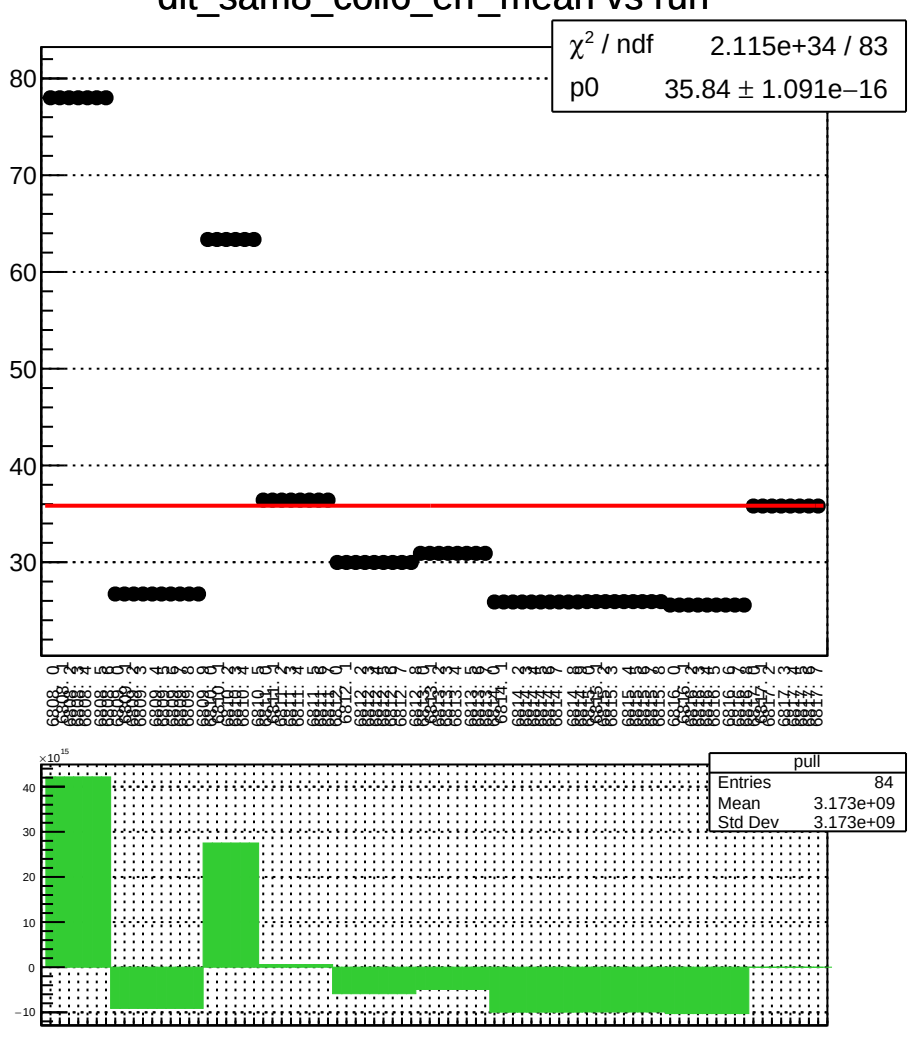

dit_sam7_coil6_err_mean vs run
χ² / ndf 2.597e+34 / 83
p0 44.65 ± 1.091e−16
90
80
70
60
50
40
30
pull
Entries 84
Mean 2.789e+09
Std Dev 2.789e+09
×10¹⁵
40
30
20
10
0
−10

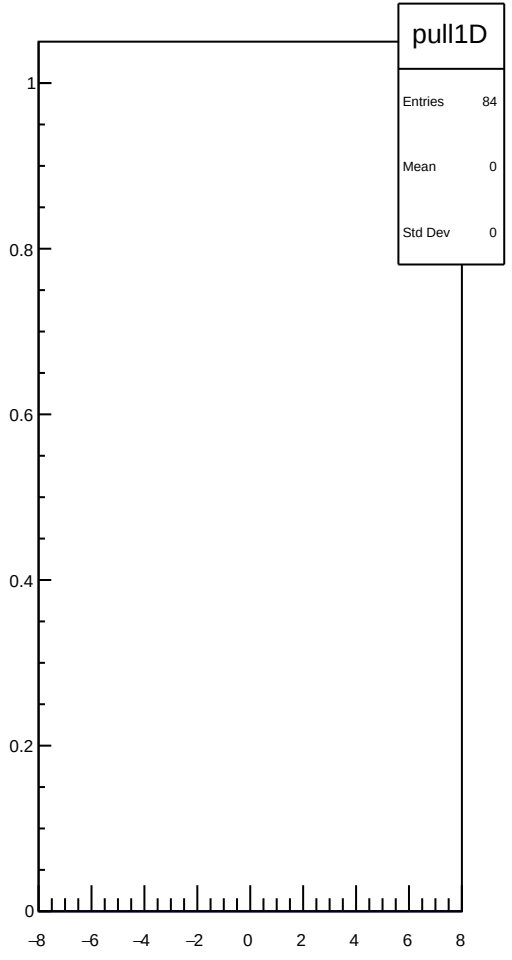

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

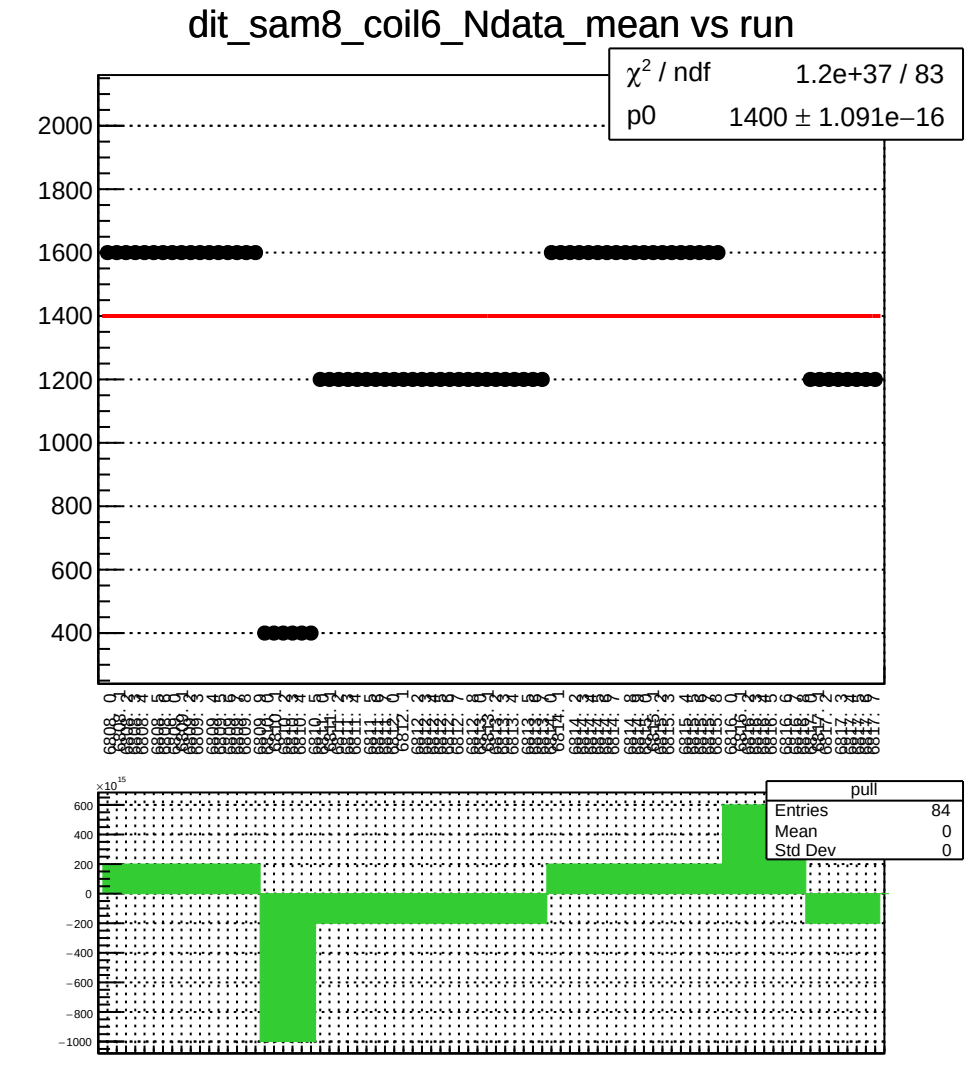

dit_sam7_coil6_Ndata_mean vs run
χ² / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
pull
Entries 84
Mean 0
Std Dev 0
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000

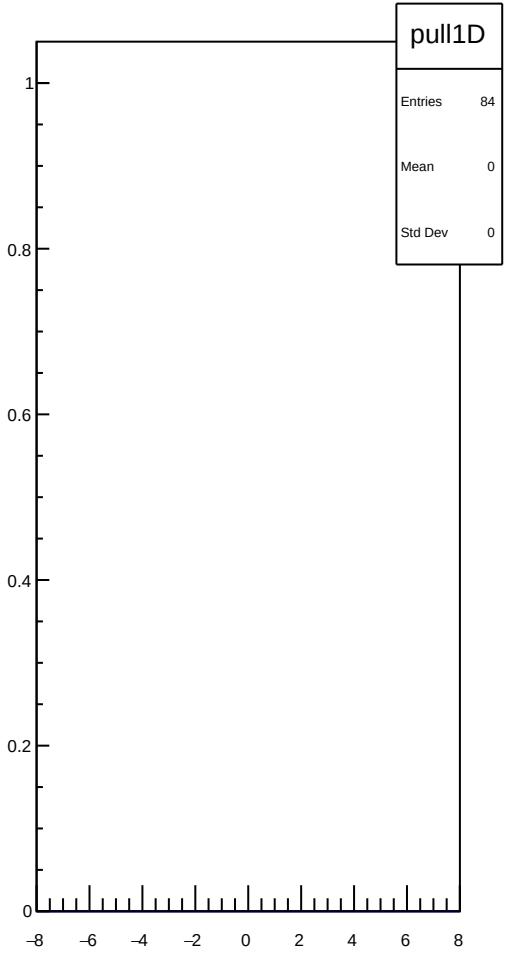

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

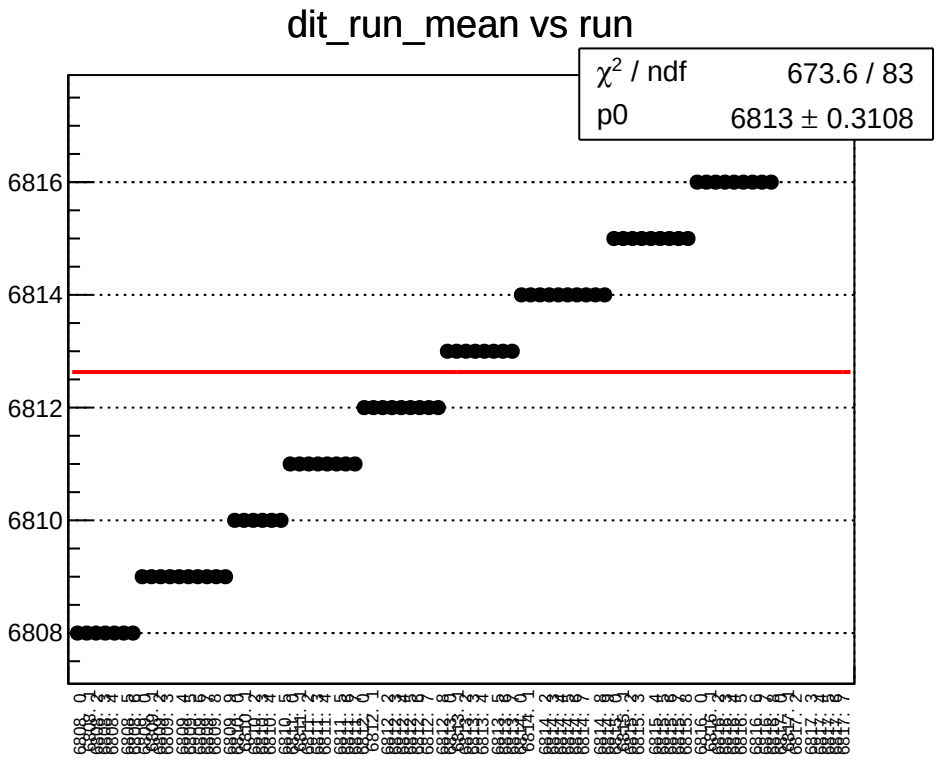

dit_sam8_coil6_mean vs run
χ² / ndf 1.15e+36 / 83
p0 −3405 ± 1.091e−16
−3000
−3100
−3200
−3300
−3400
−3500
pull
Entries 84
Mean 1.427e+10
Std Dev 1.427e+10
×10¹⁵
400
300
200
100
0
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

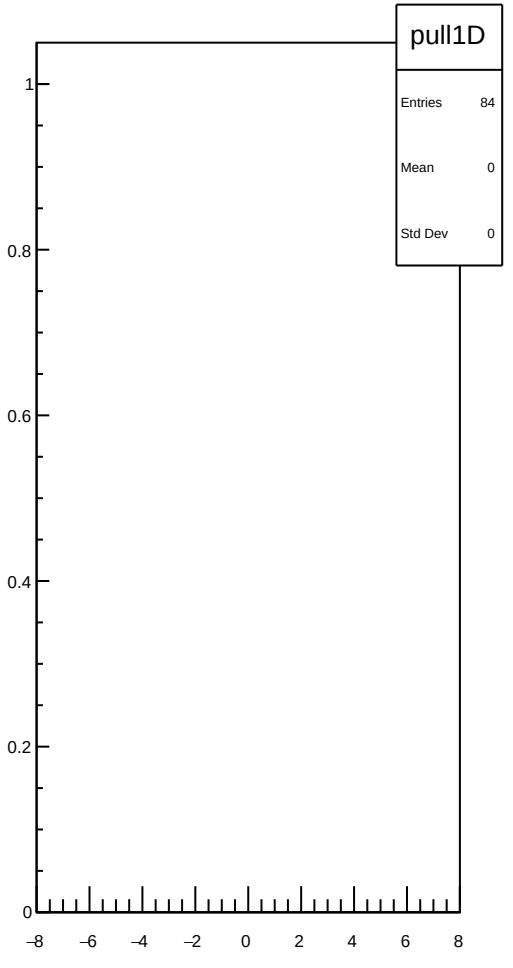

dit_sam8_coil6_err_mean vs run
χ² / ndf 2.115e+34 / 83
p0 35.84 ± 1.091e−16
pull
Entries 84
Mean 3.173e+09
Std Dev 3.173e+09

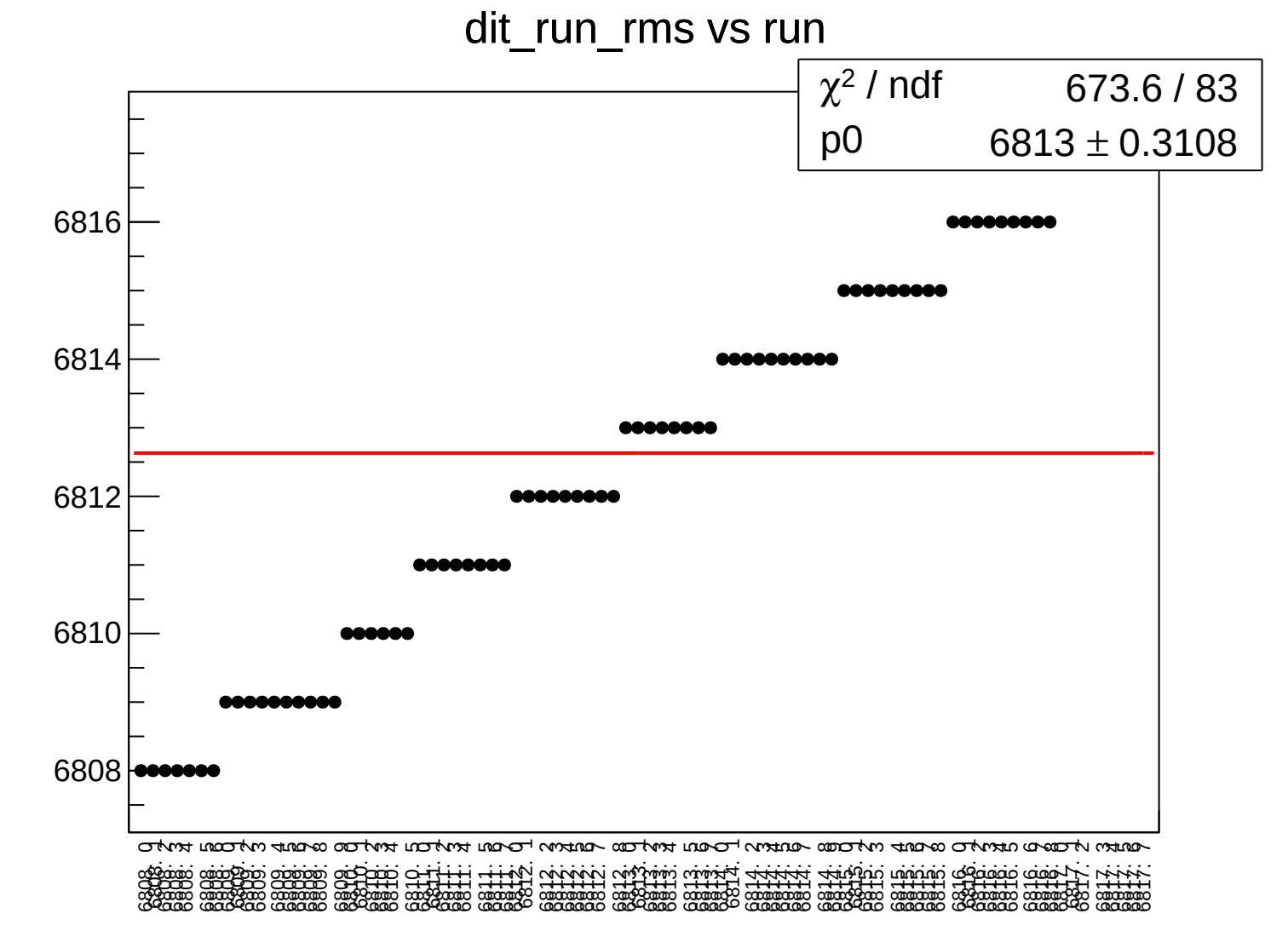

pull1D
Entries 84
Mean 0
Std Dev 0

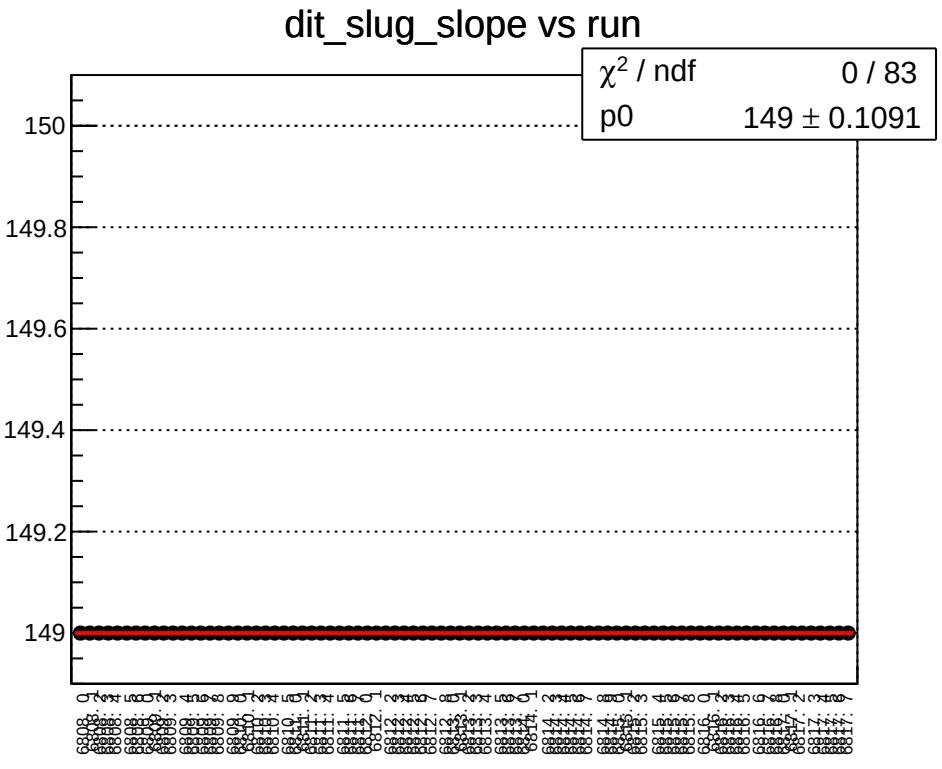

dit_sam8_coil6_Ndata_mean vs run
χ² / ndf 1.2e+37 / 83
p0 1400 ± 1.091e−16
2000
1800
1600
1400
1200
1000
800
600
400
×10¹⁵
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 84
Mean 0
Std Dev 0

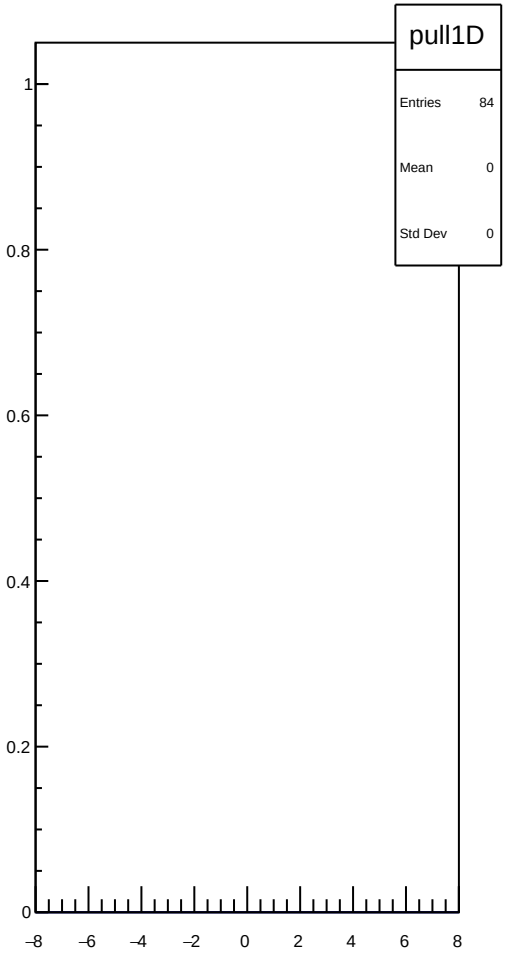

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

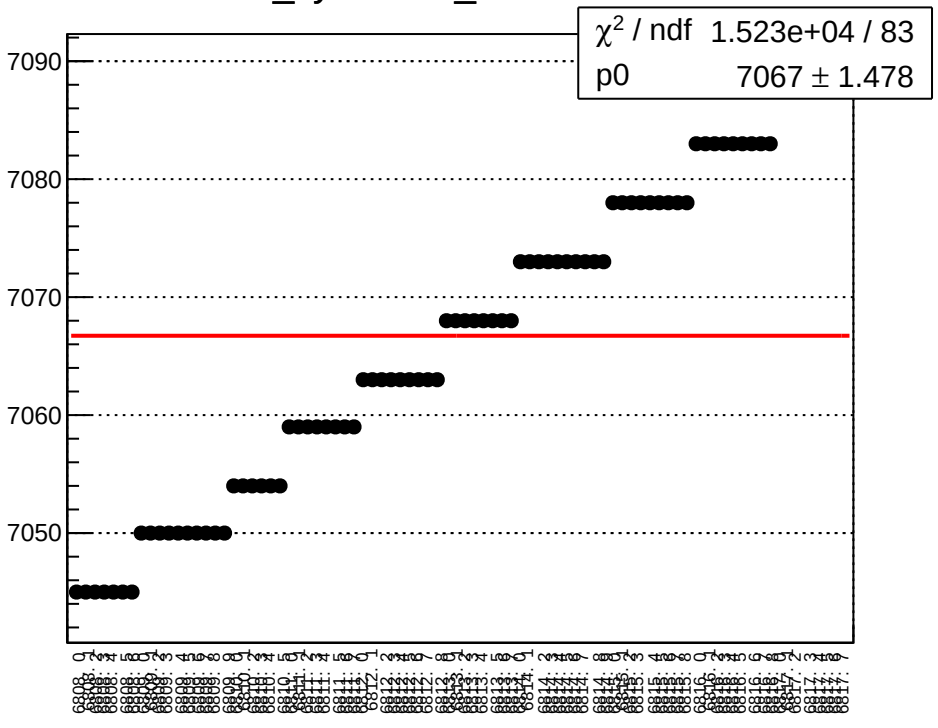

dit_run_mean vs run
χ² / ndf 673.6 / 83
p0 6813 ± 0.3108
6816
6814
6812
6810
6808

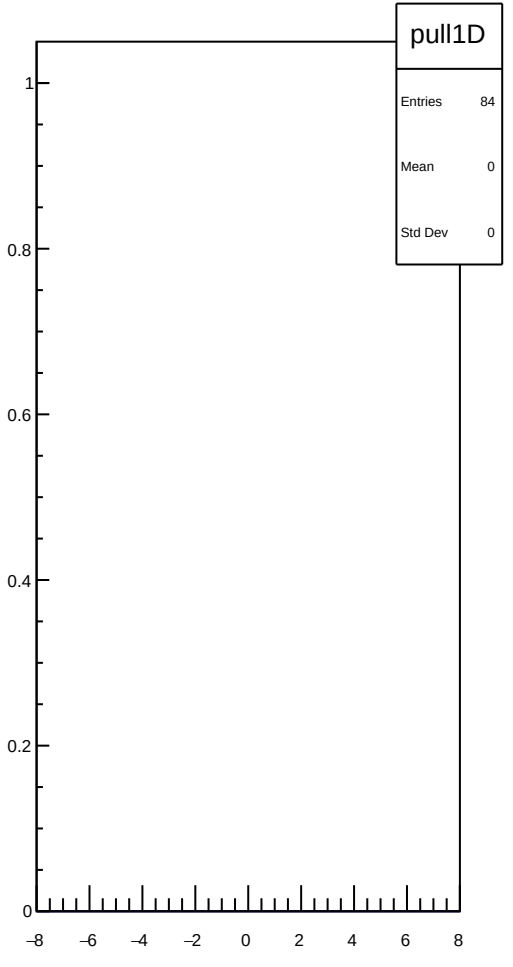

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

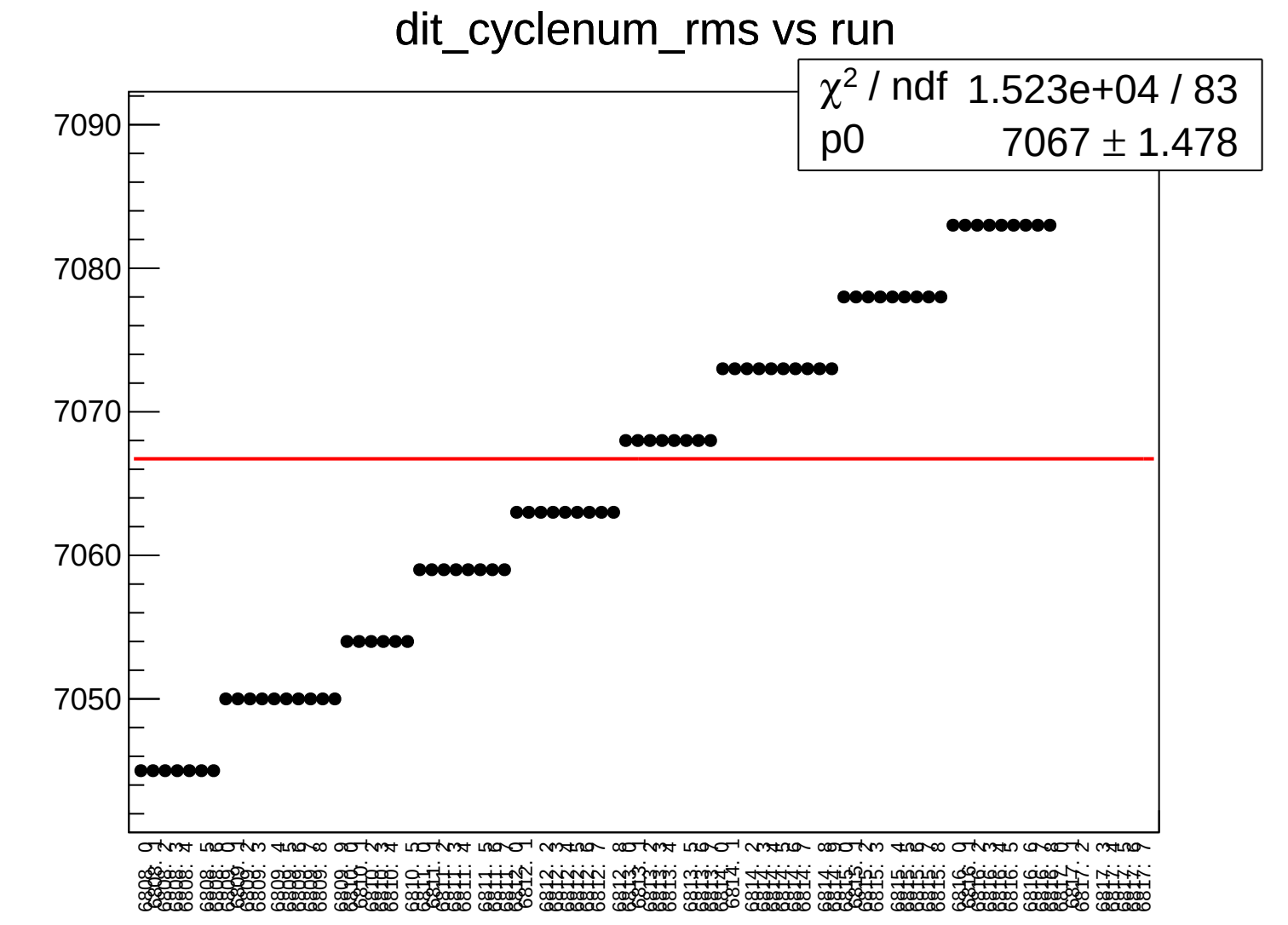

dit_run_rms vs run
χ² / ndf 673.6 / 83
p0 6813 ± 0.3108
6816
6814
6812
6810
6808

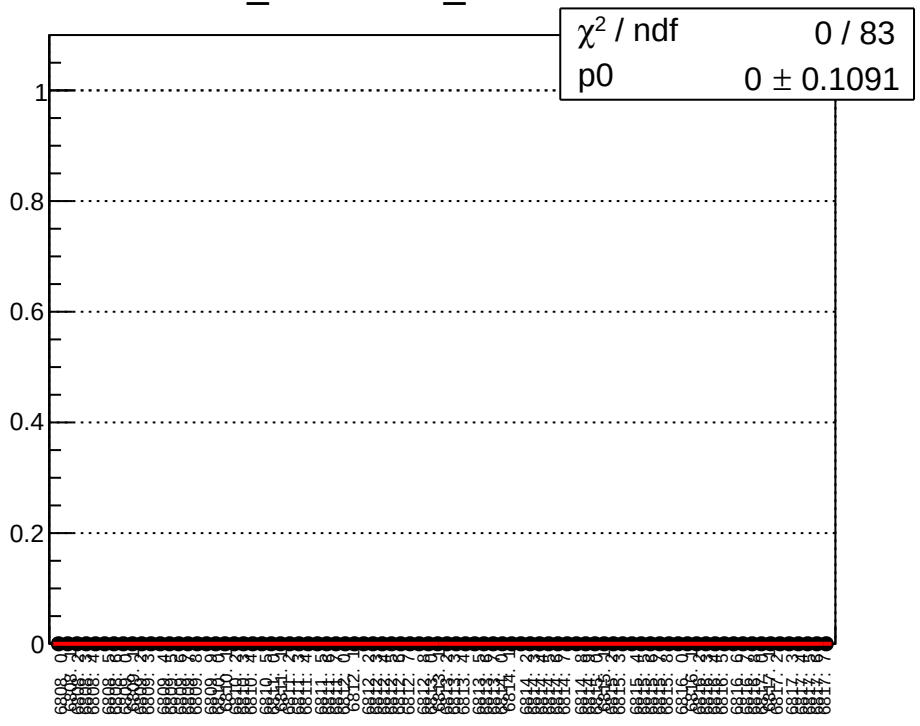

dit_slug_slope vs run
χ^2 / ndf 0 / 83
p0 149 ± 0.1091
150
149.8
149.6
149.4
149.2
149

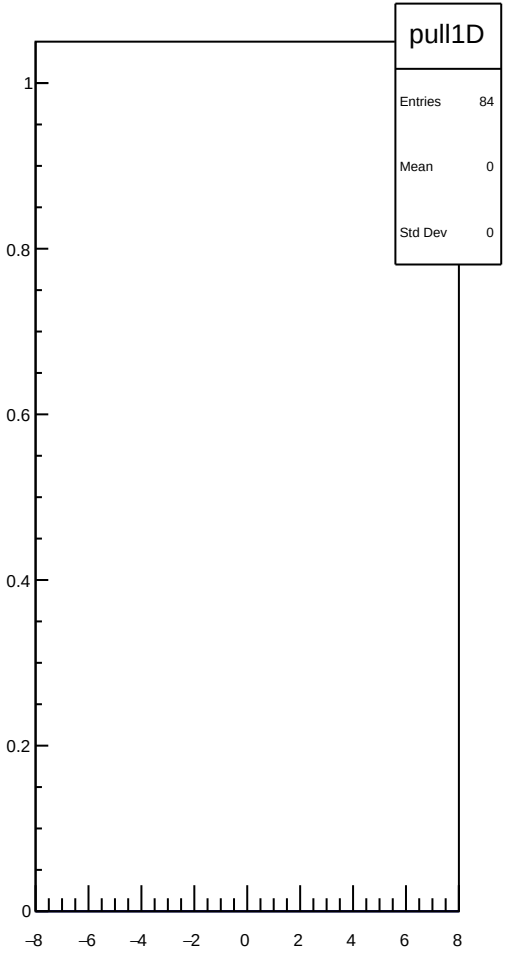

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

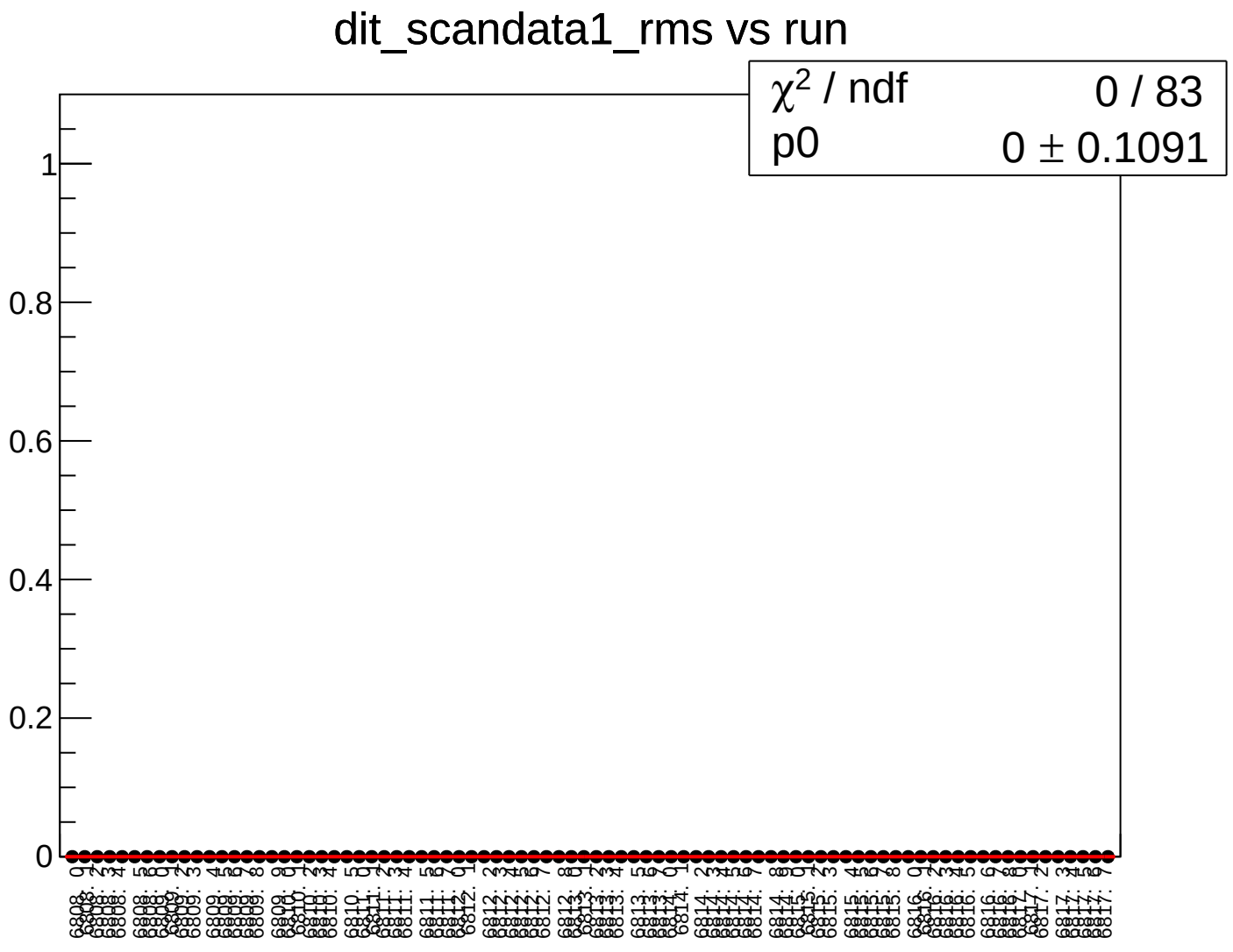

dit_cyclenum_mean vs run
χ^2 / ndf 1.523e+04 / 83
p0 7067 ± 1.478
7090
7080
7070
7060
7050

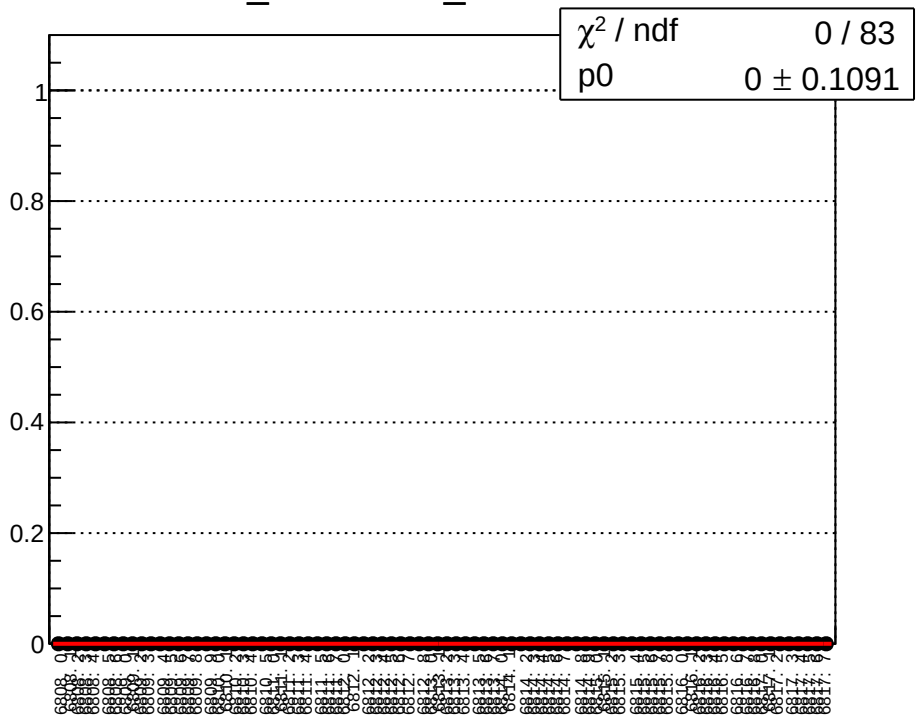

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

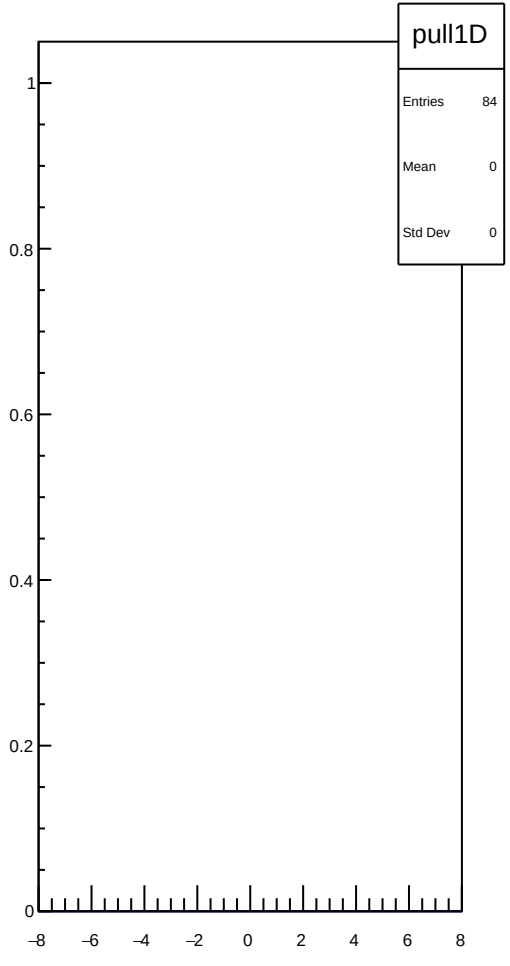

dit_cyclenum_rms vs run
χ² / ndf 1.523e+04 / 83
p0 7067 ± 1.478
7090
7080
7070
7060
7050

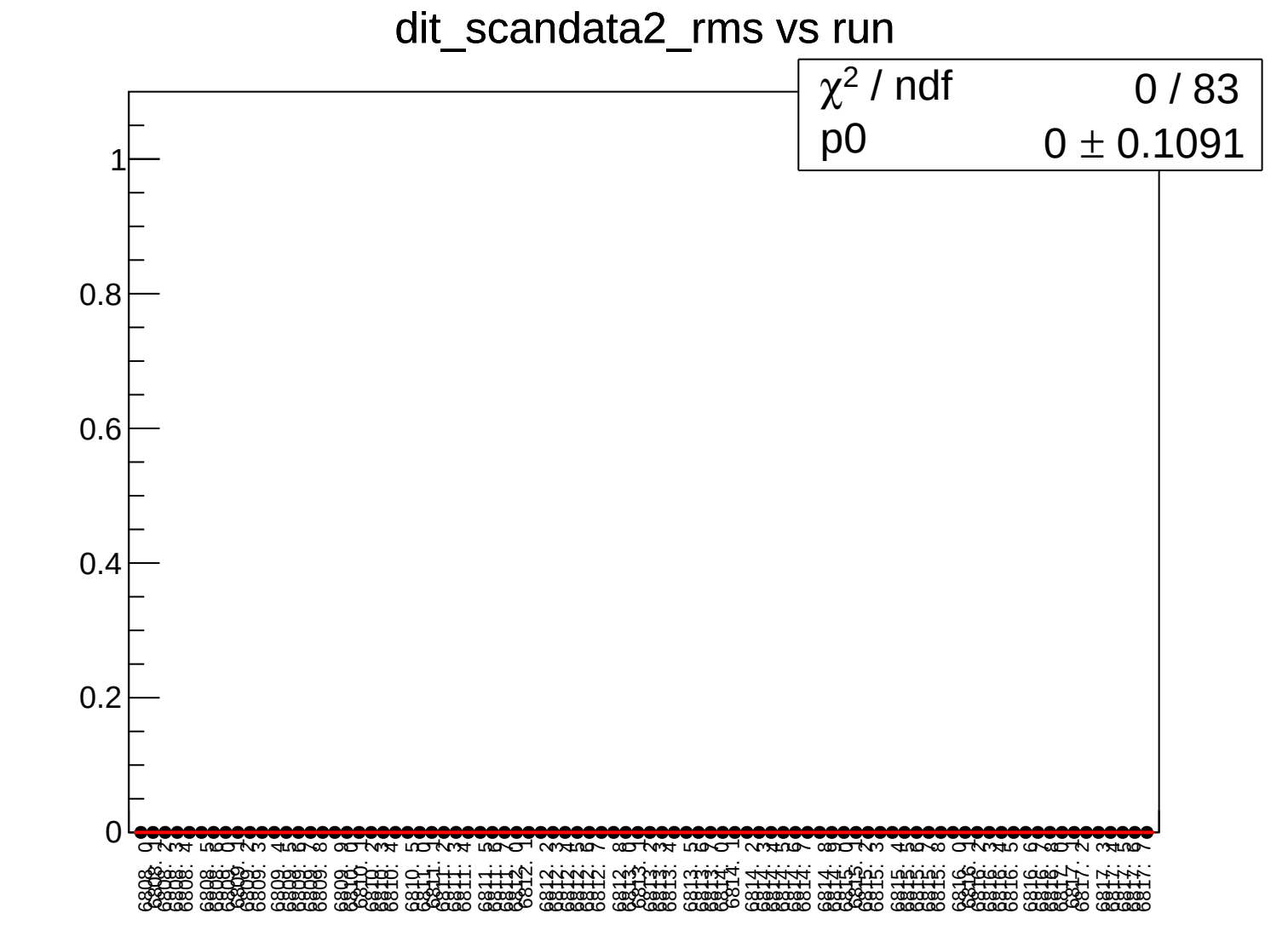

dit_scandata1_mean vs run
χ² / ndf 0 / 83
p0 0 ± 0.1091
1
0.8
0.6
0.4
0.2
0

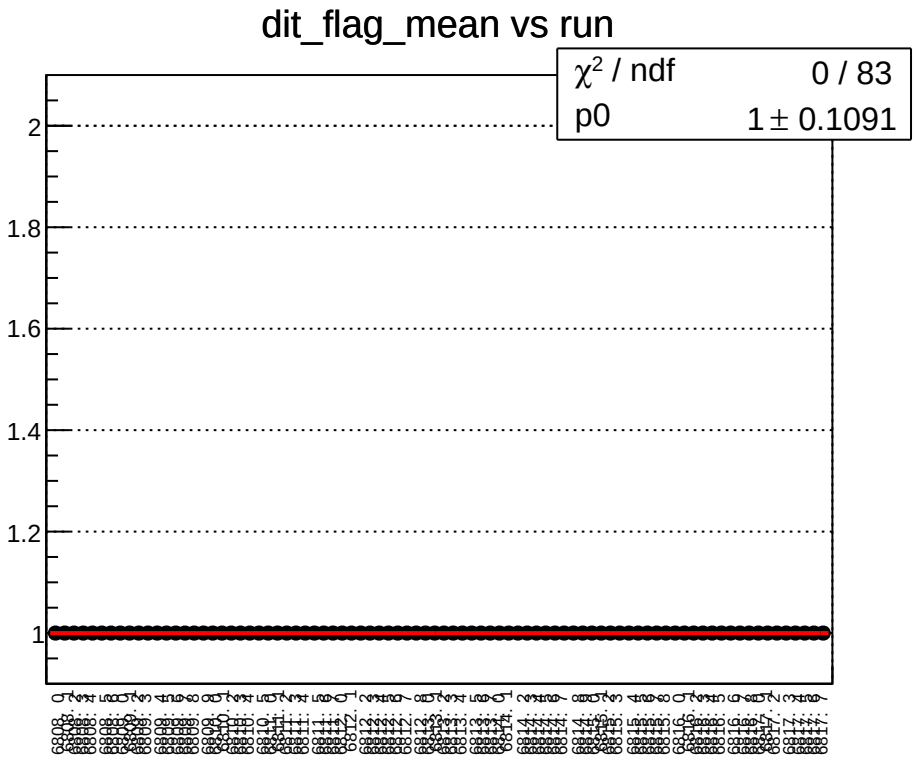

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

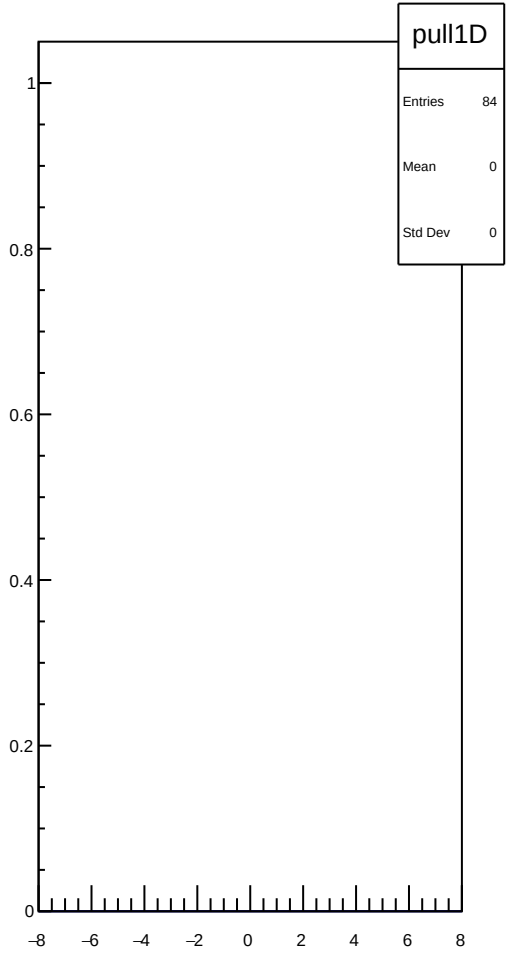

dit_scandata1_rms vs run
χ² / ndf 0 / 83
p0 0 ± 0.1091
1
0.8
0.6
0.4
0.2
0

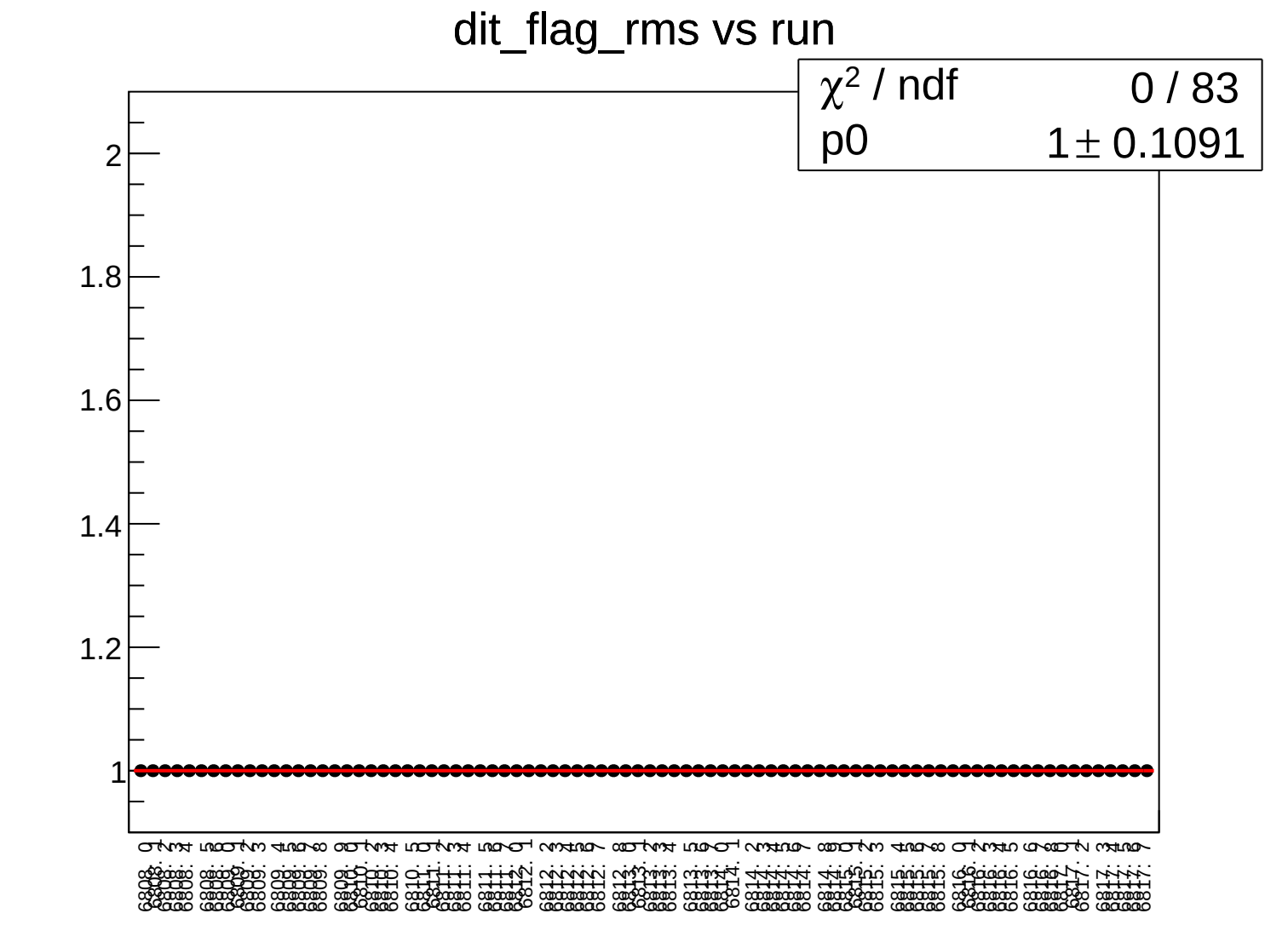

dit_scandata2_mean vs run
χ² / ndf 0 / 83
p0 0 ± 0.1091
1
0.8
0.6
0.4
0.2
0

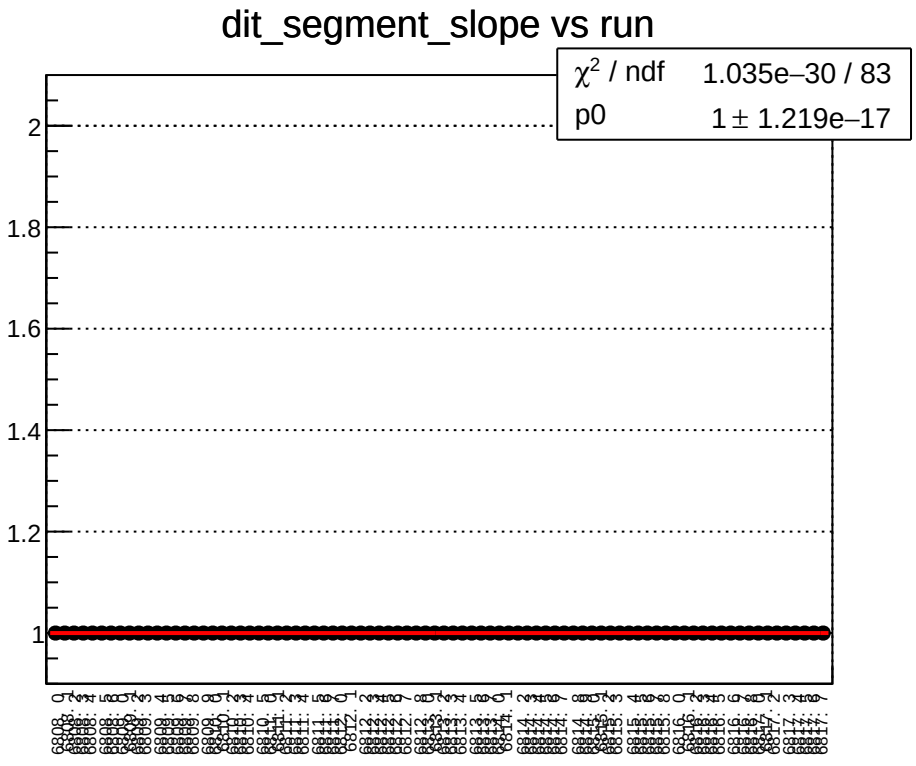

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

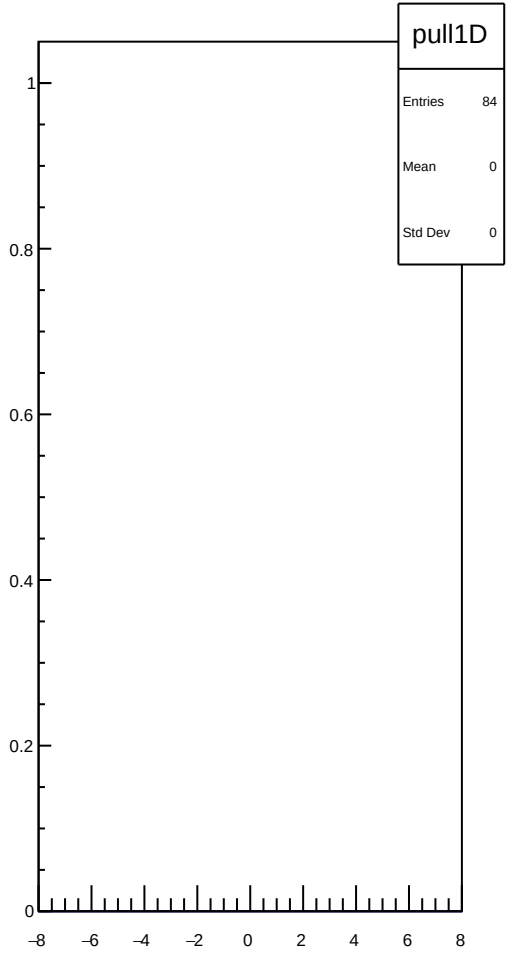

dit_scandata2_rms vs run
χ² / ndf 0 / 83
p0 0 ± 0.1091
1
0.8
0.6
0.4
0.2
0

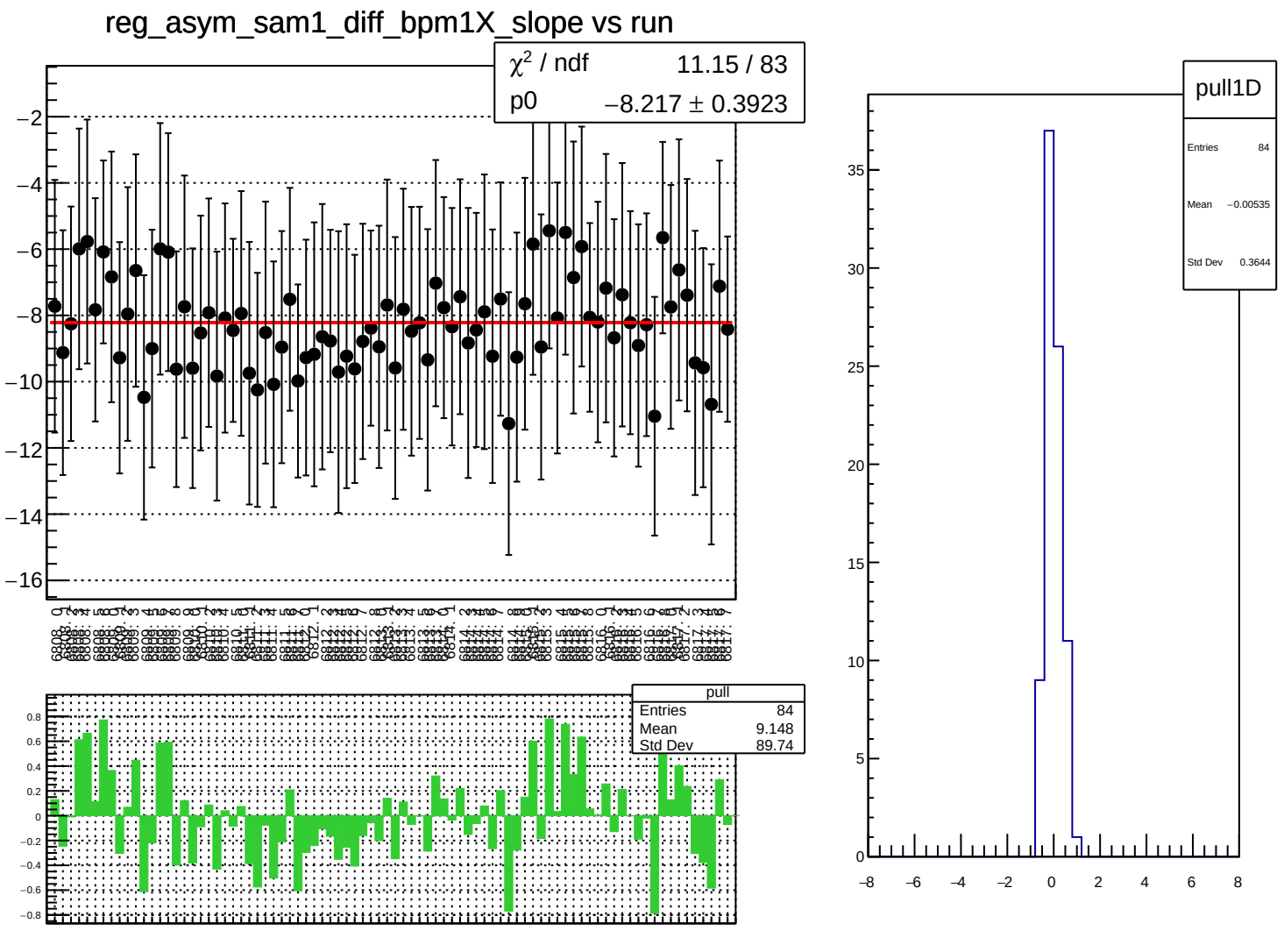

dit_flag_mean vs run
χ^2 / ndf 0 / 83
p0 1 ± 0.1091
2
1.8
1.6
1.4
1.2
1

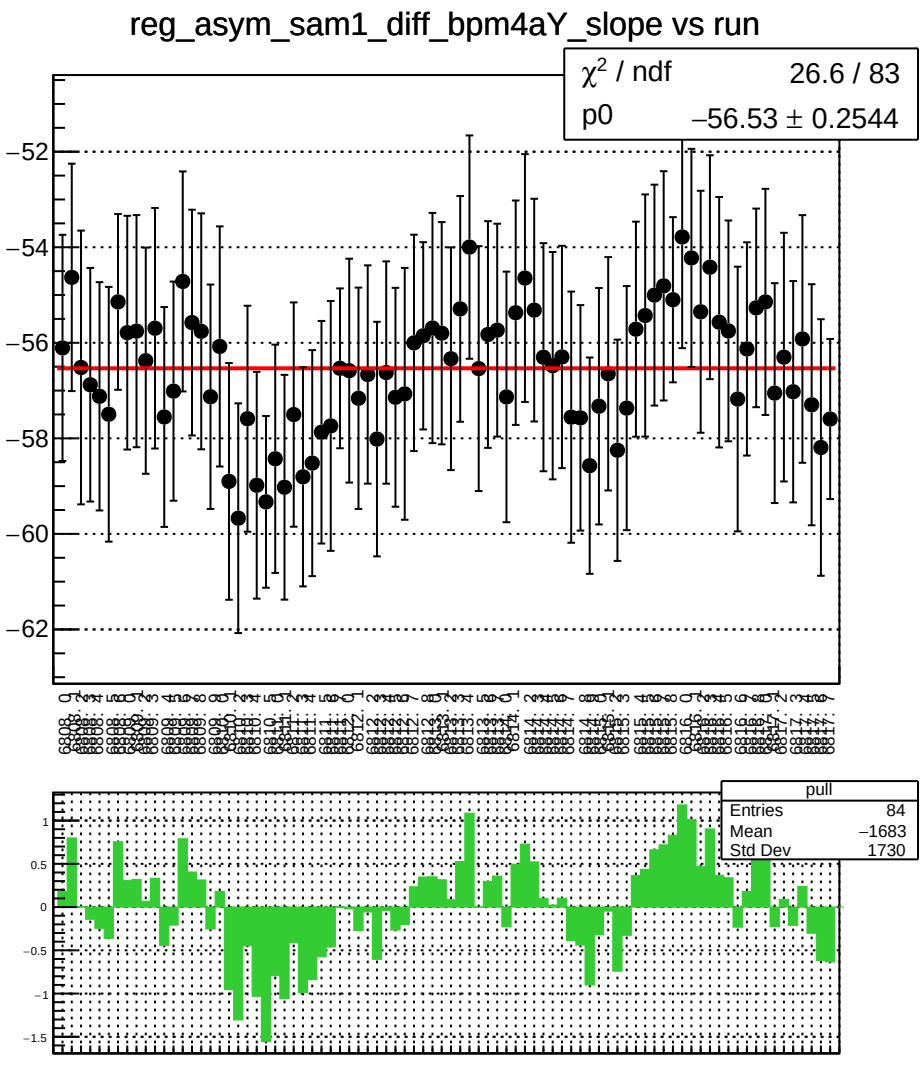

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

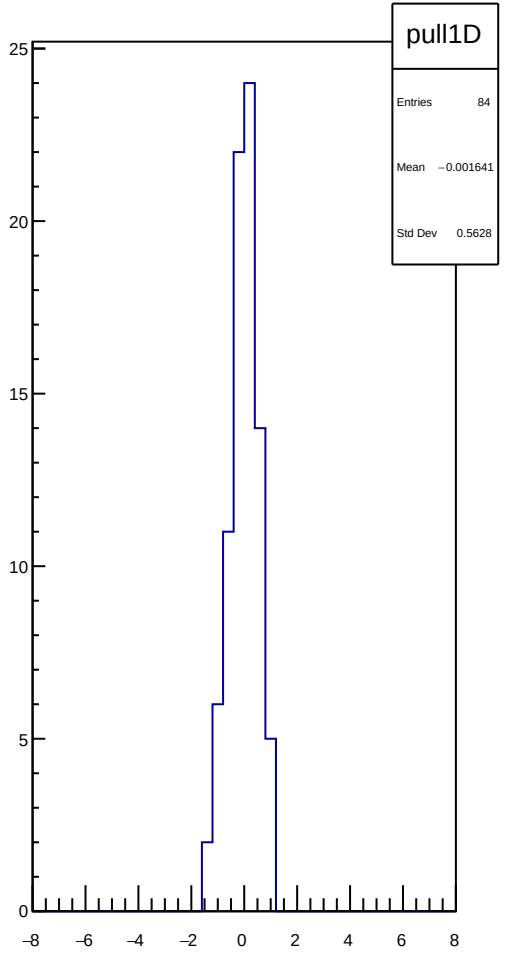

dit_flag_rms vs run
χ² / ndf 0 / 83
p0 1 ± 0.1091
2
1.8
1.6
1.4
1.2
1

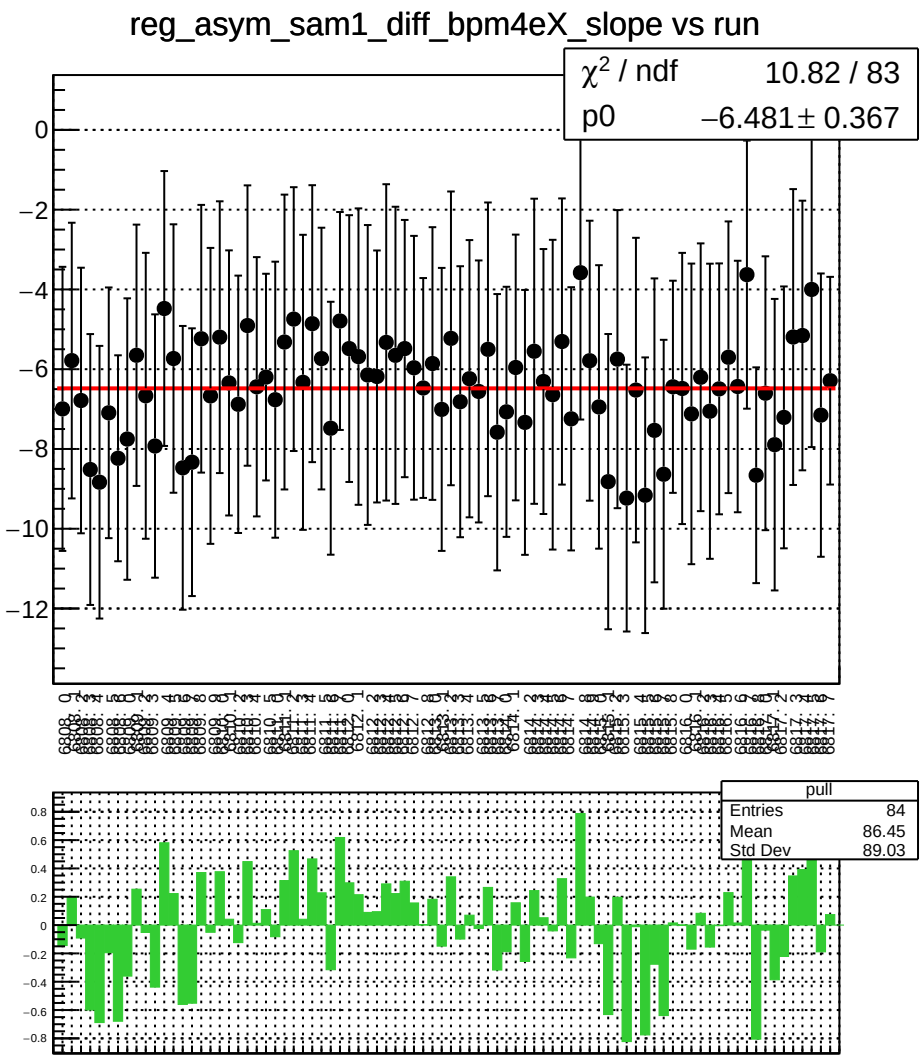

dit_segment_slope vs run
χ² / ndf 1.035e−30 / 83
p0 1 ± 1.219e−17
2
1.8
1.6
1.4
1.2
1

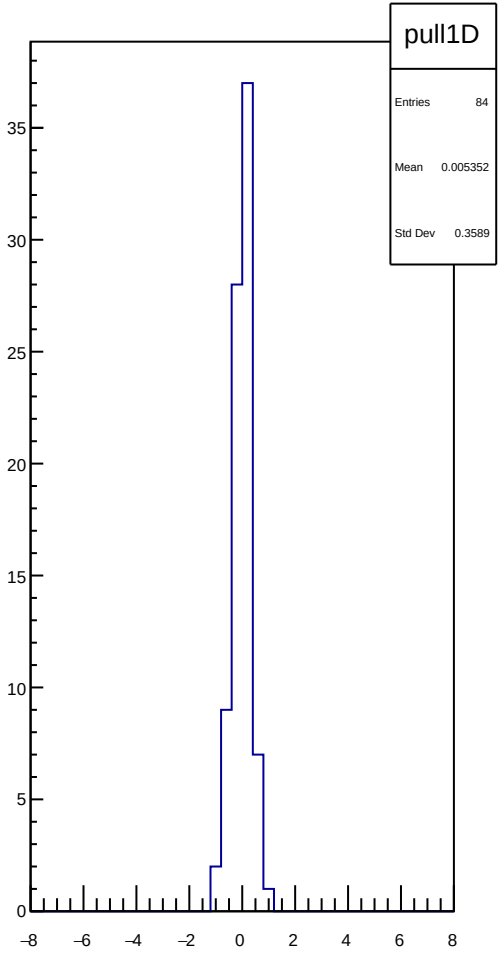

pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

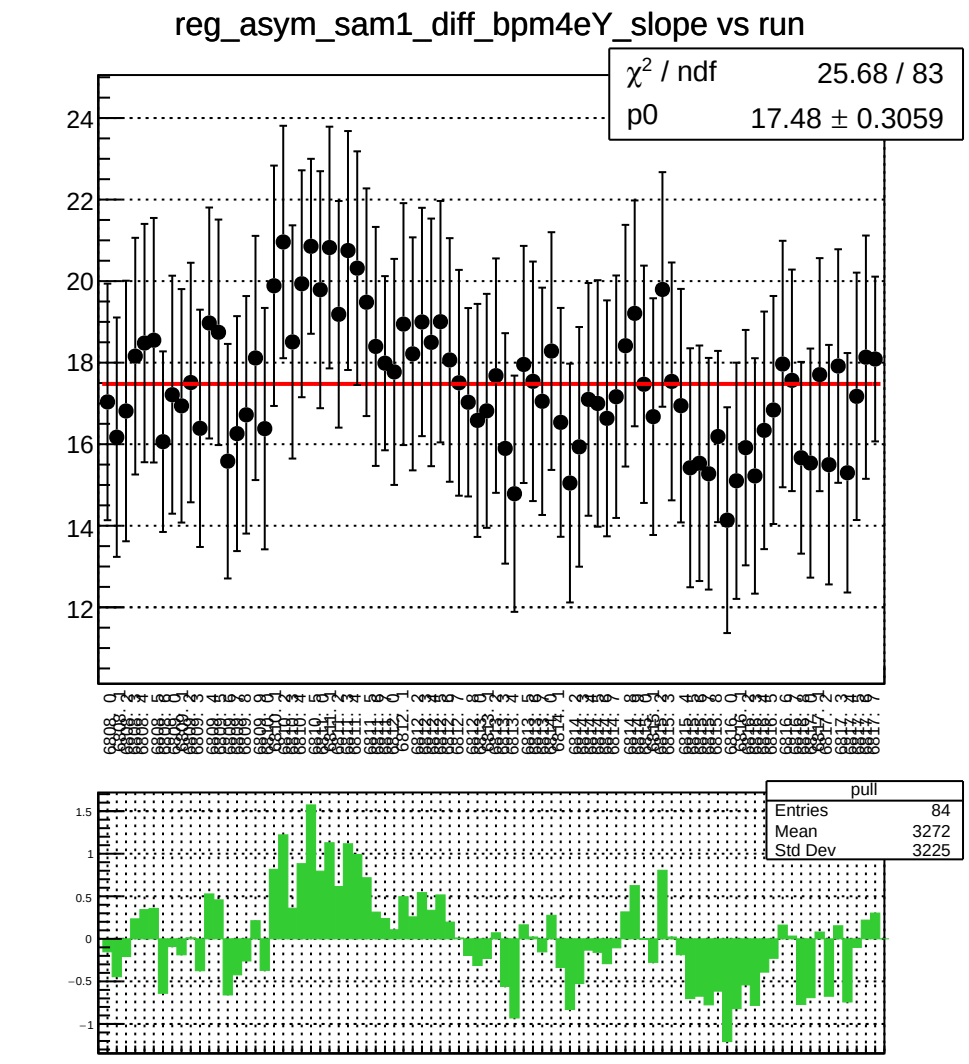

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 11.15 / 83
p0 −8.217 ± 0.3923
pull
Entries 84
Mean 9.148
Std Dev 89.74
pull1D
Entries 84
Mean −0.00535
Std Dev 0.3644

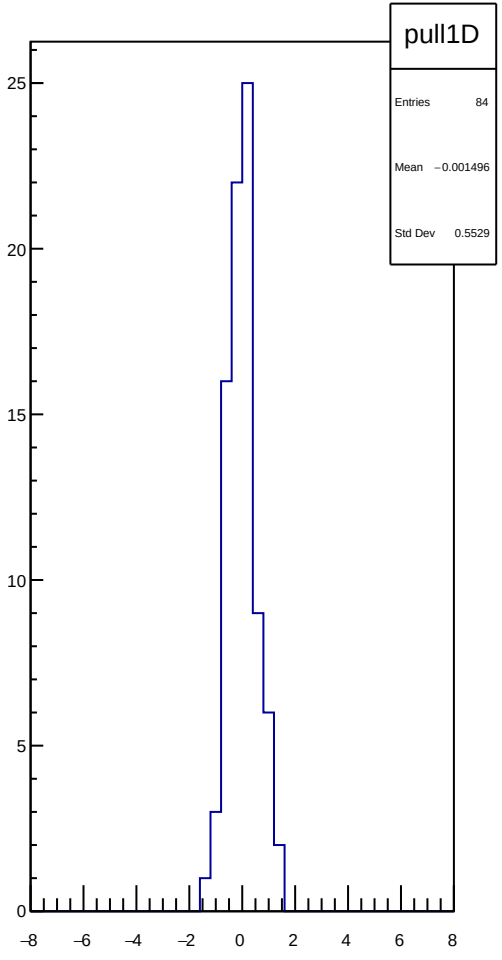

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 26.6 / 83
p0 −56.53 ± 0.2544
−52
−54
−56
−58
−60
−62
pull
Entries 84
Mean −1683
Std Dev 1730
1
0.5
0
−0.5
−1
−1.5

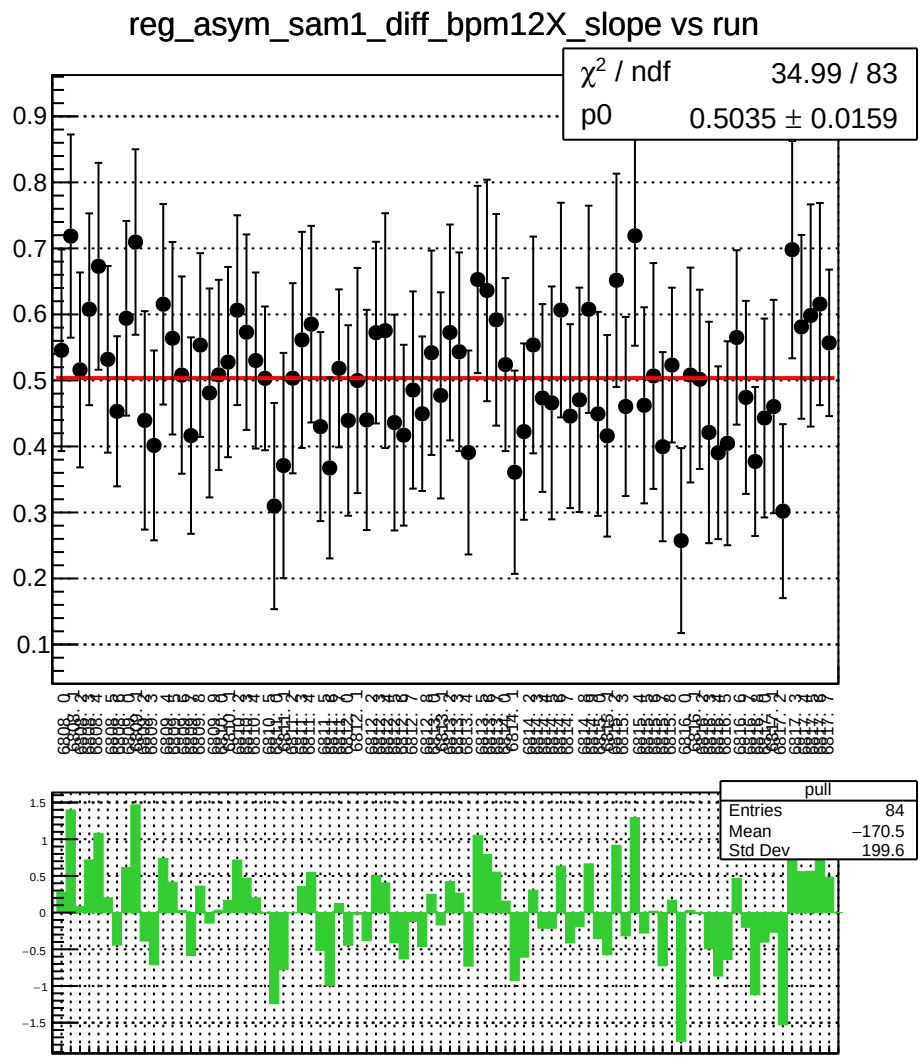

pull1D
Entries 84
Mean −0.001641
Std Dev 0.5628
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

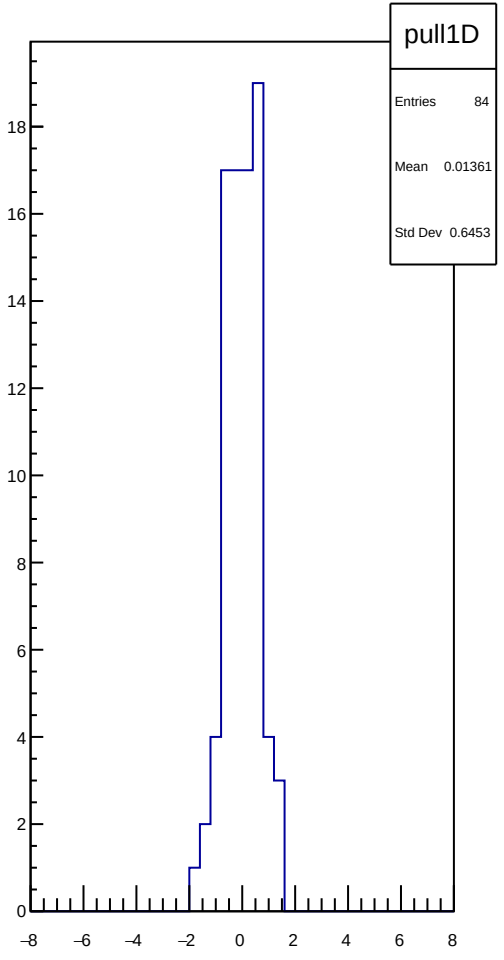

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 10.82 / 83
p0 −6.481 ± 0.367
pull
Entries 84
Mean 86.45
Std Dev 89.03

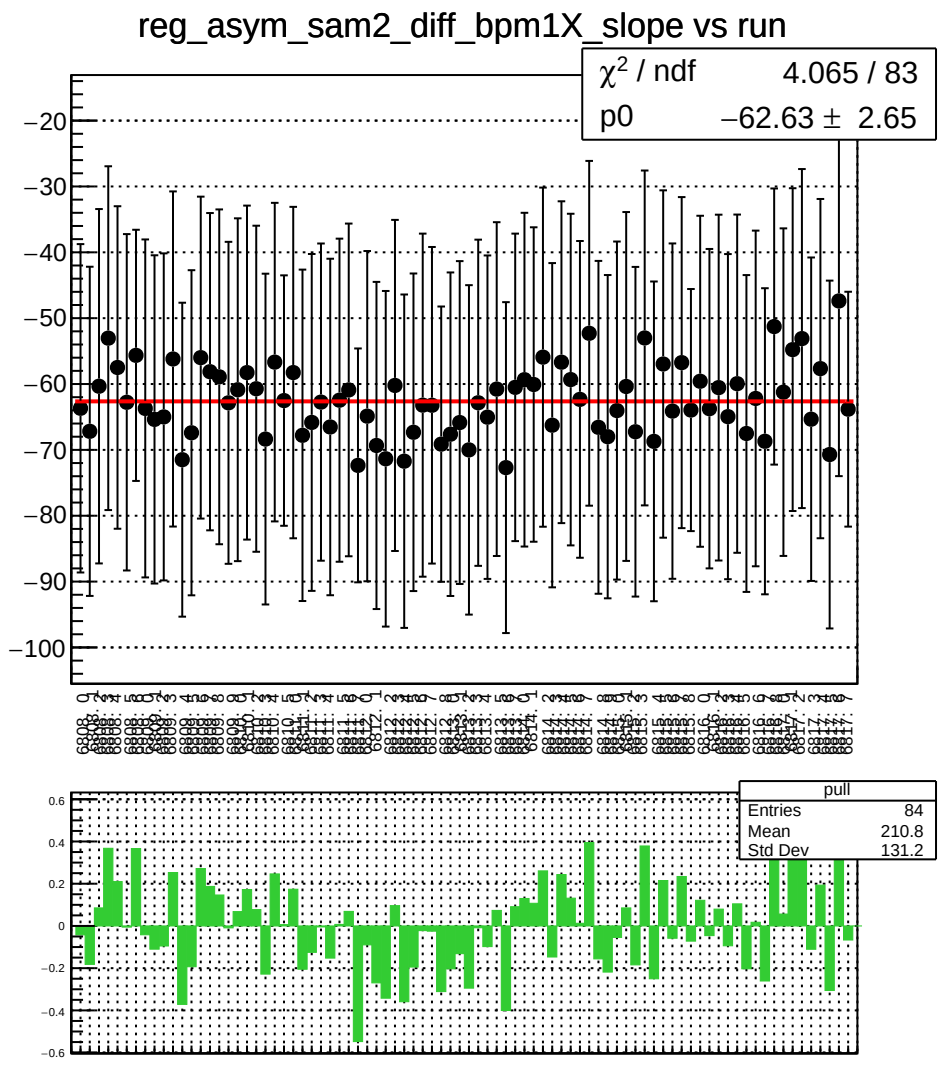

pull1D
Entries 84
Mean 0.005352
Std Dev 0.3589

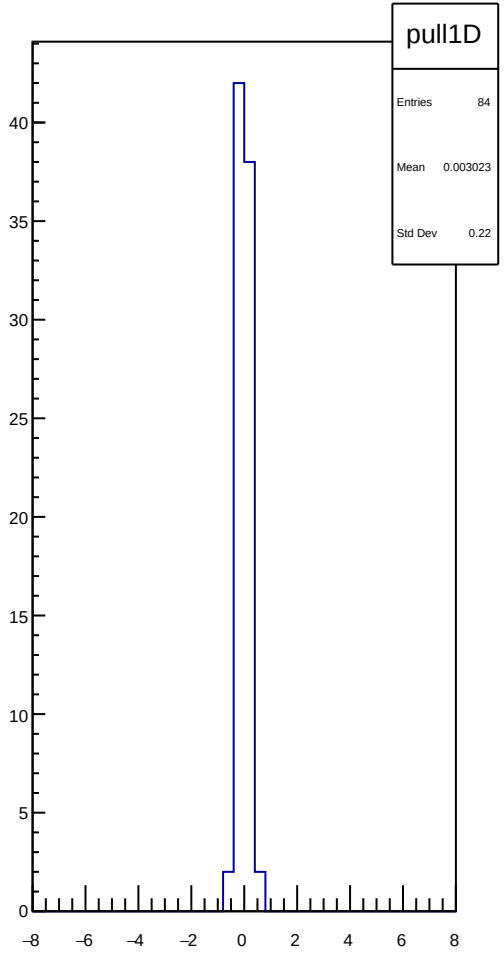

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 25.68 / 83
p0 17.48 ± 0.3059
pull
Entries 84
Mean 3272
Std Dev 3225

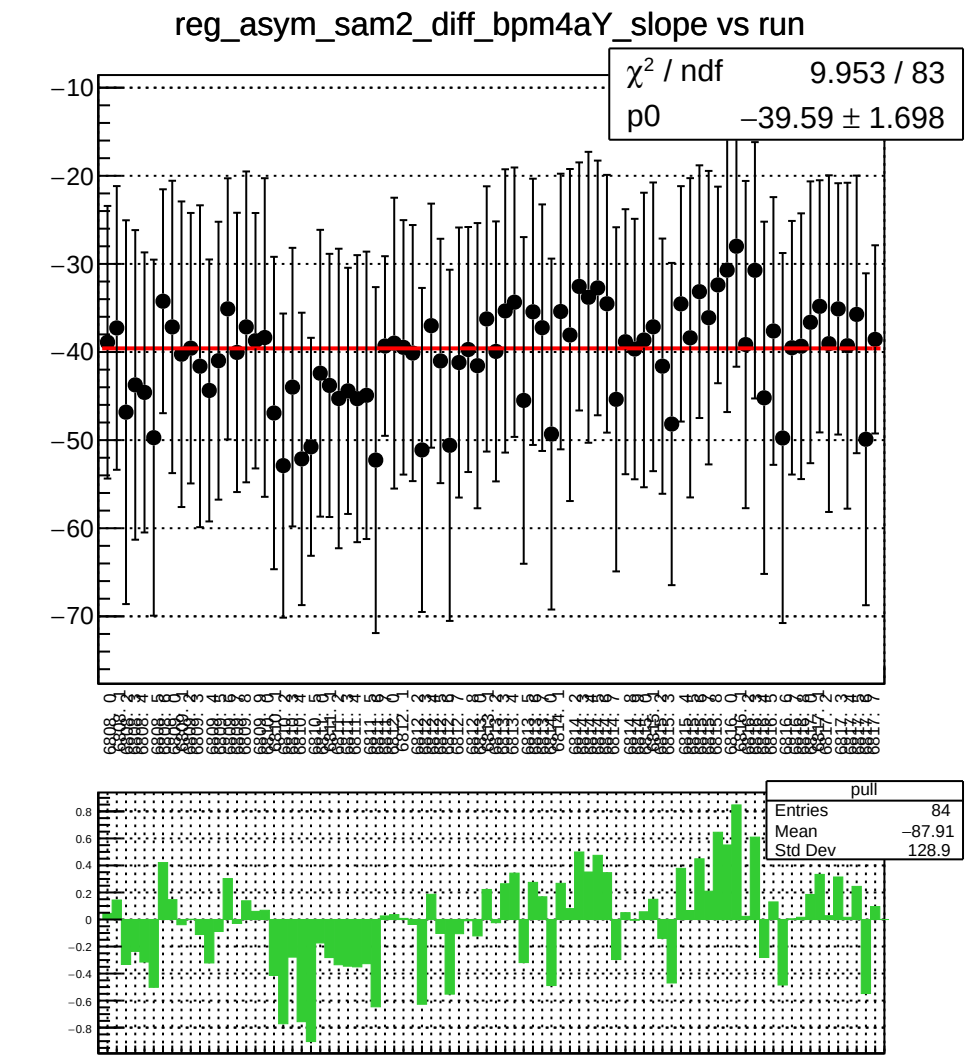

pull1D
Entries 84
Mean −0.001496
Std Dev 0.5529

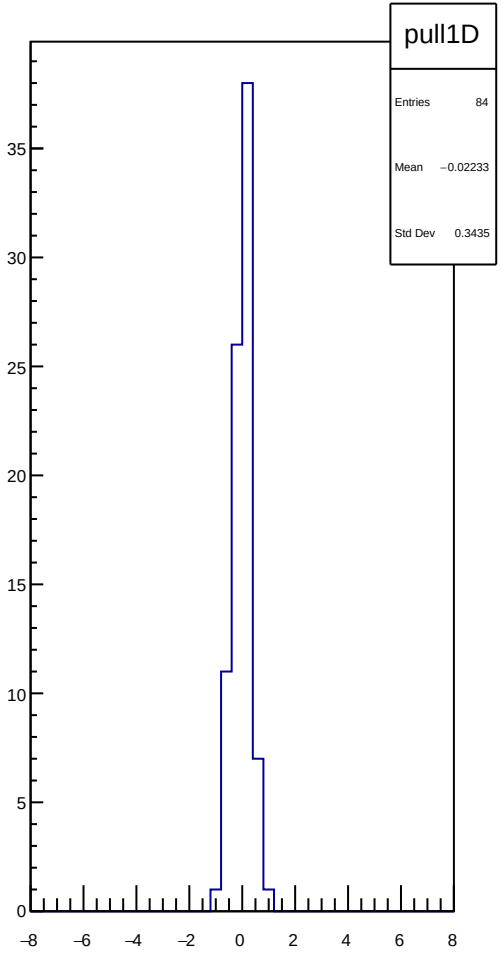

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 34.99 / 83
p0 0.5035 ± 0.0159
pull
Entries 84
Mean −170.5
Std Dev 199.6

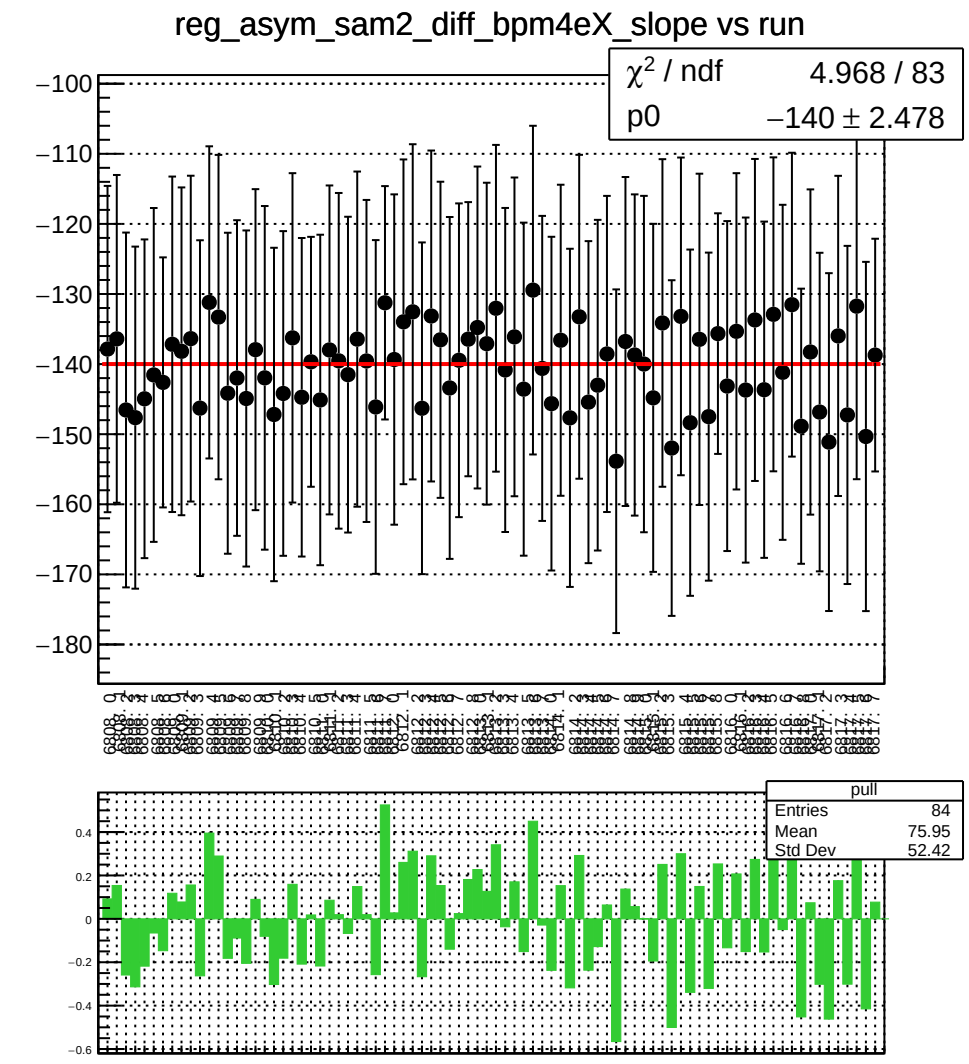

pull1D
Entries 84
Mean 0.01361
Std Dev 0.6453

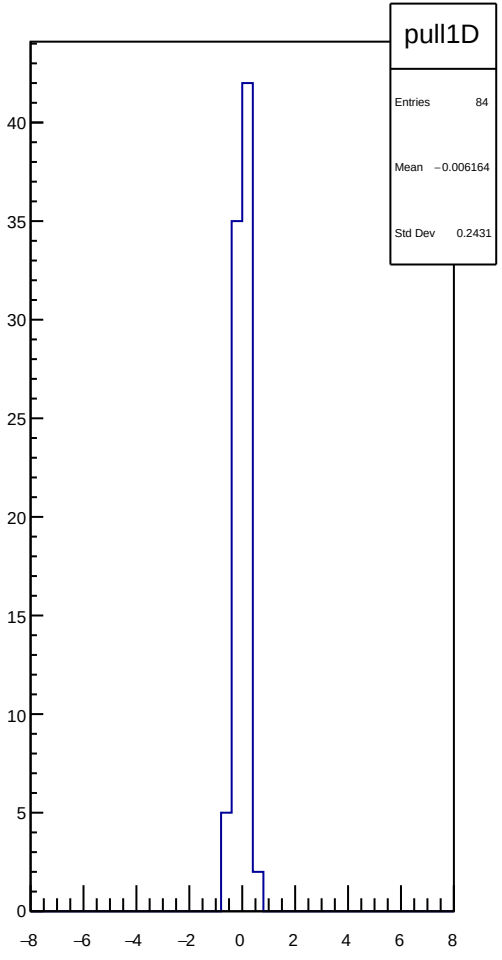

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 4.065 / 83
p0 −62.63 ± 2.65
pull
Entries 84
Mean 210.8
Std Dev 131.2

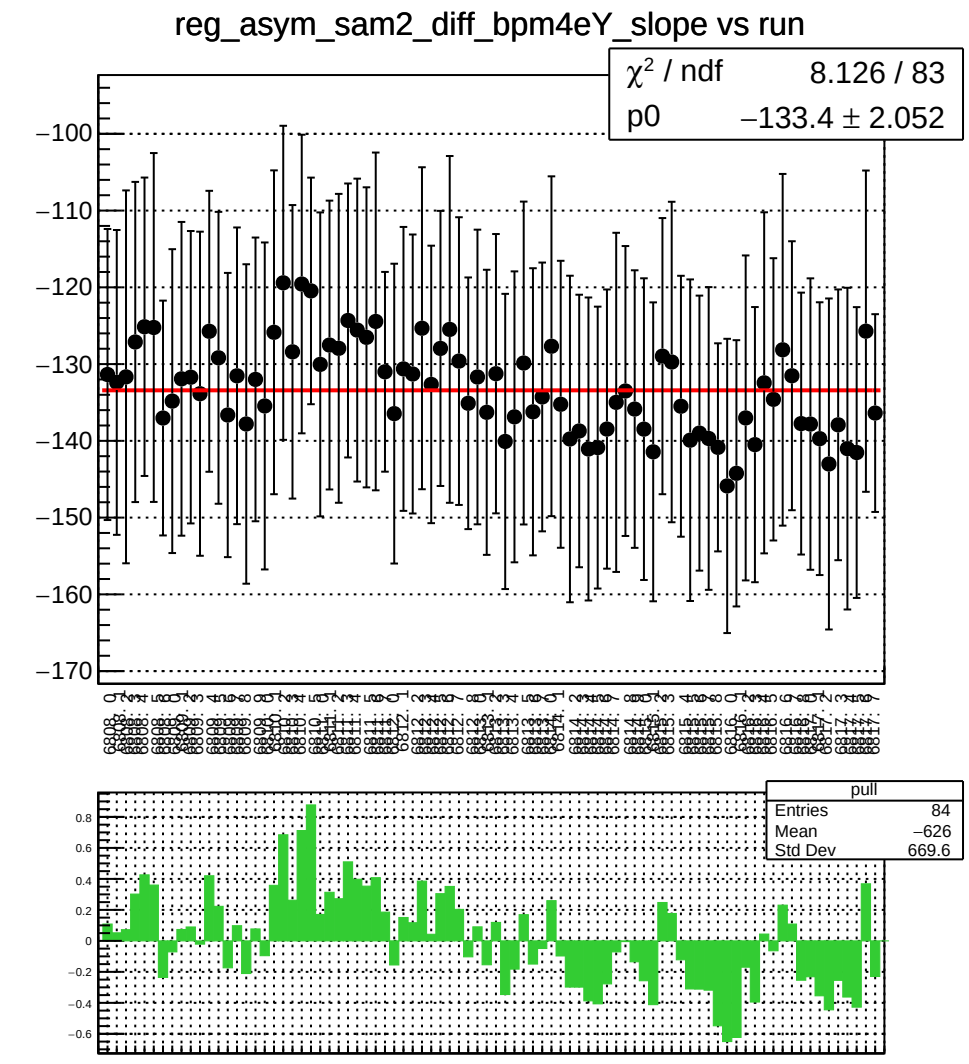

pull1D
Entries 84
Mean 0.003023
Std Dev 0.22

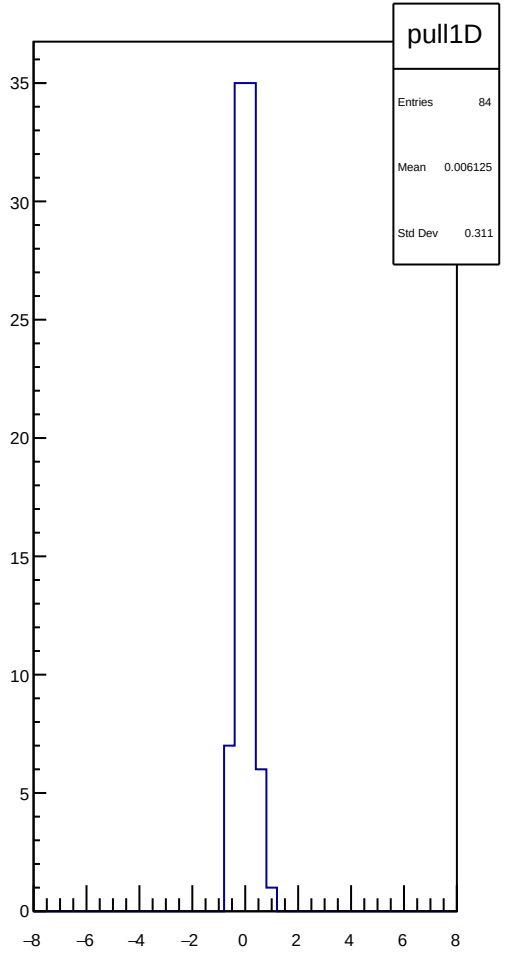

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 9.953 / 83
p0 −39.59 ± 1.698
pull
Entries 84
Mean −87.91
Std Dev 128.9

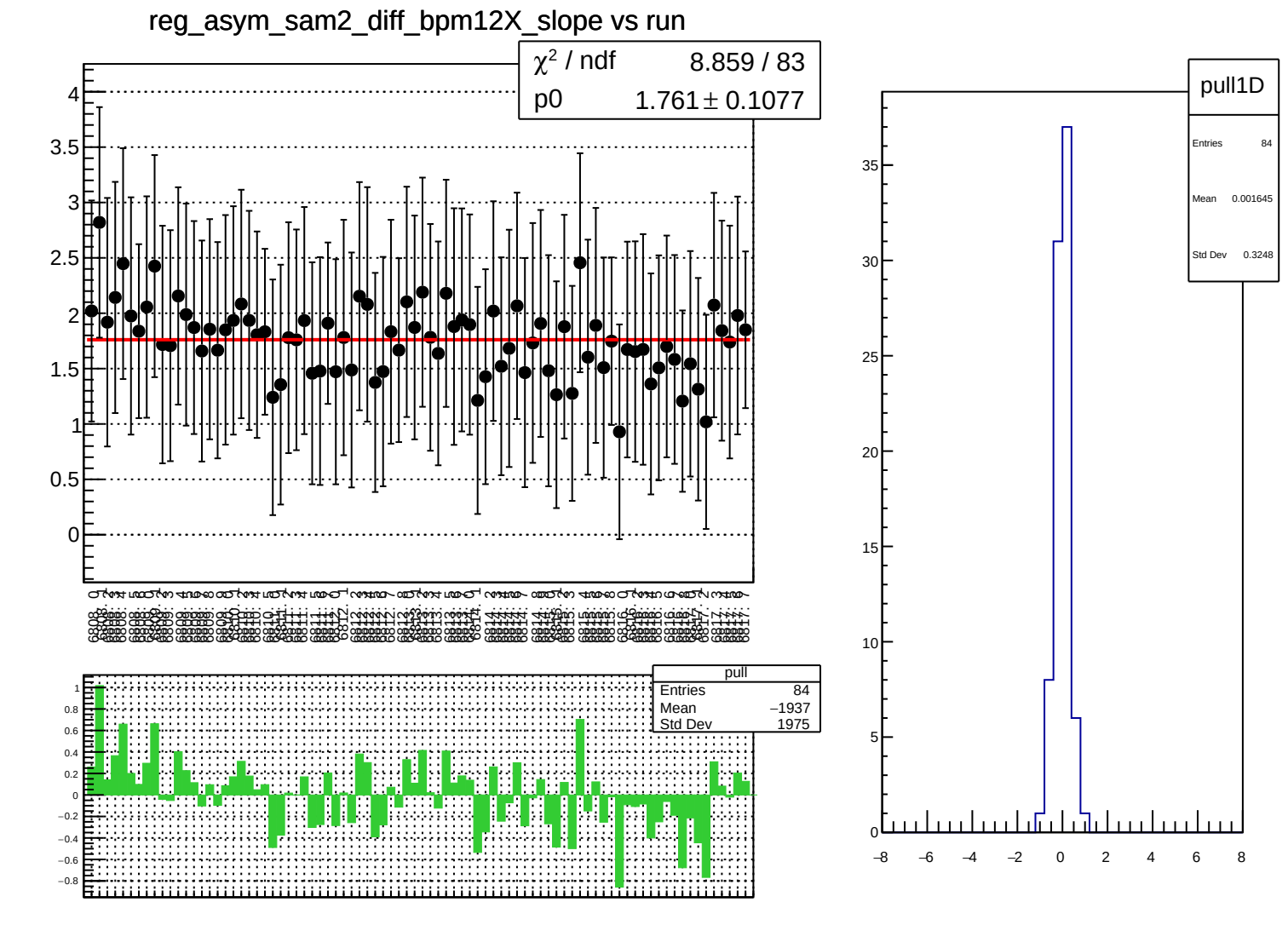

pull1D
Entries 84
Mean −0.02233
Std Dev 0.3435

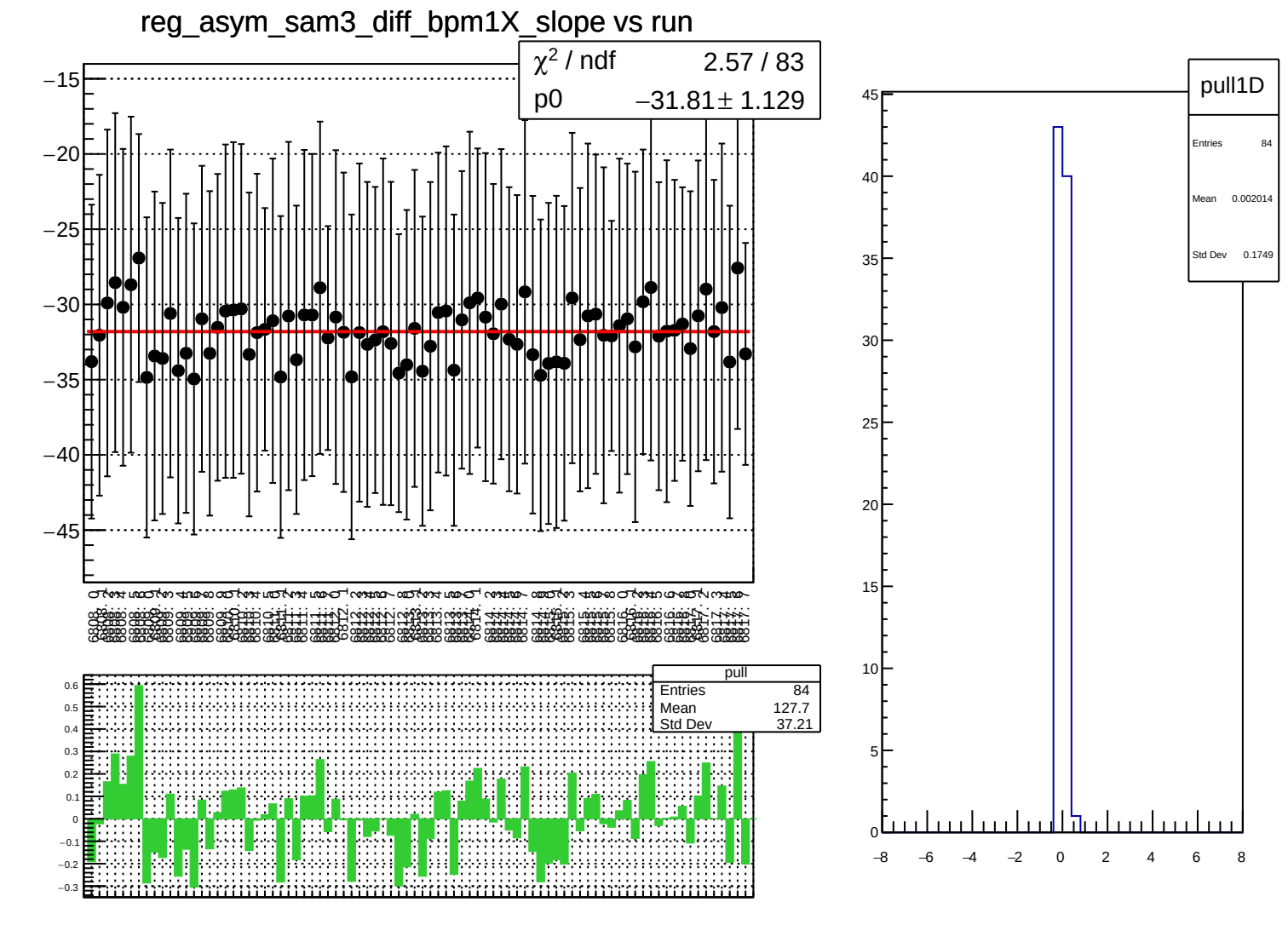

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 4.968 / 83
p0 −140 ± 2.478
pull
Entries 84
Mean 75.95
Std Dev 52.42

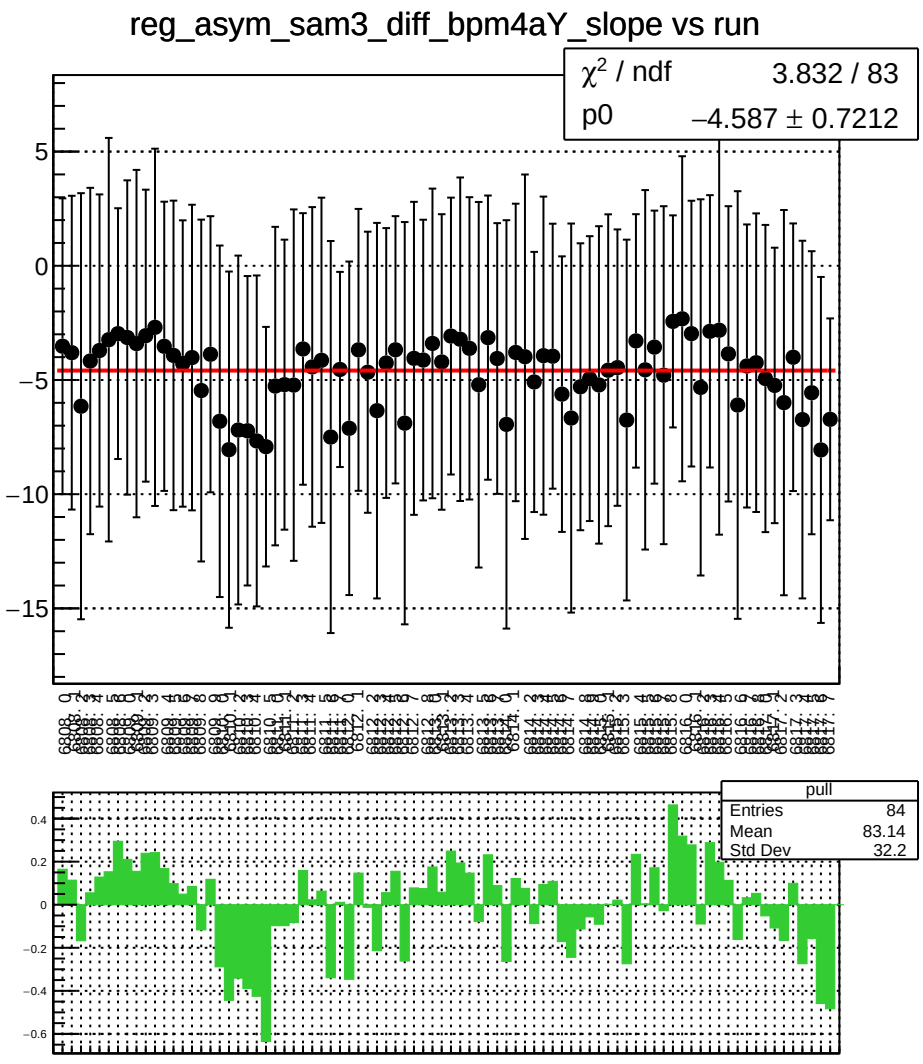

pull1D
Entries 84
Mean −0.006164
Std Dev 0.2431

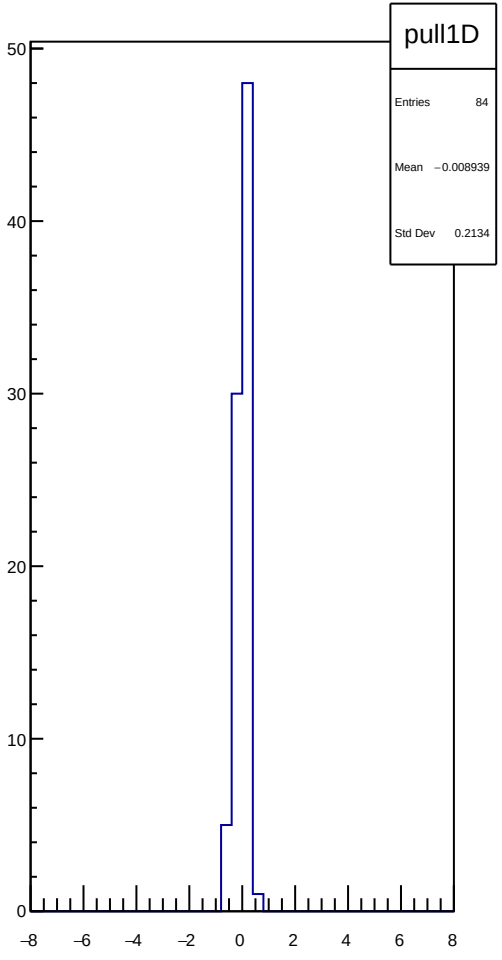

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 8.126 / 83
p0 −133.4 ± 2.052
pull
Entries 84
Mean −626
Std Dev 669.6

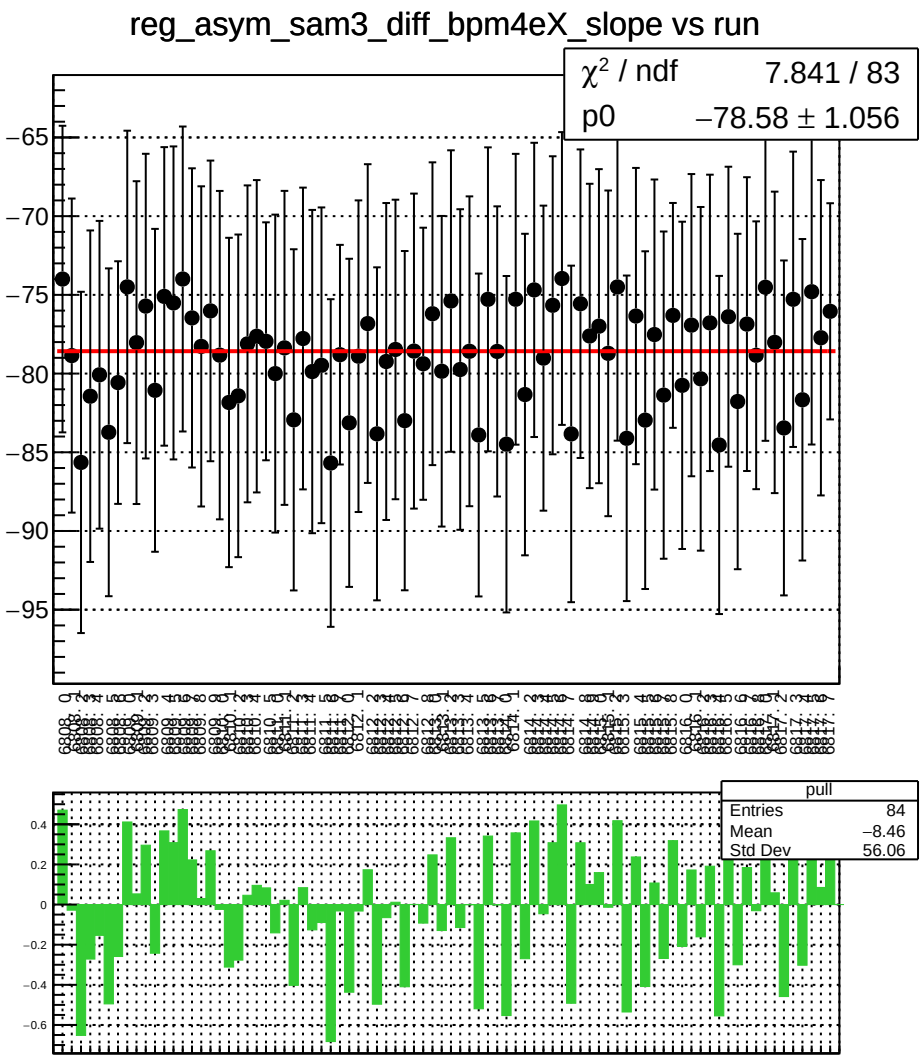

pull1D
Entries 84
Mean 0.006125
Std Dev 0.311

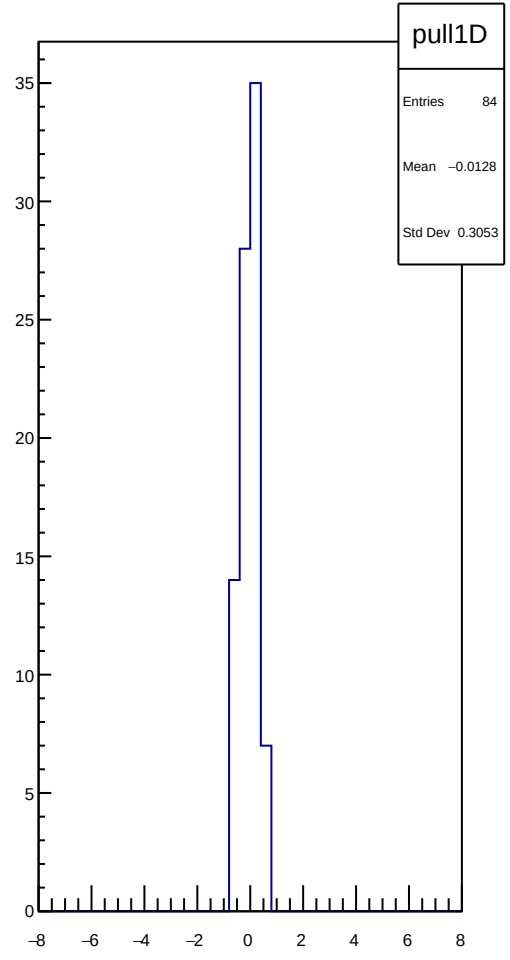

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 8.859 / 83
p0 1.761 ± 0.1077
pull
Entries 84
Mean −1937
Std Dev 1975
pull1D
Entries 84
Mean 0.001645
Std Dev 0.3248

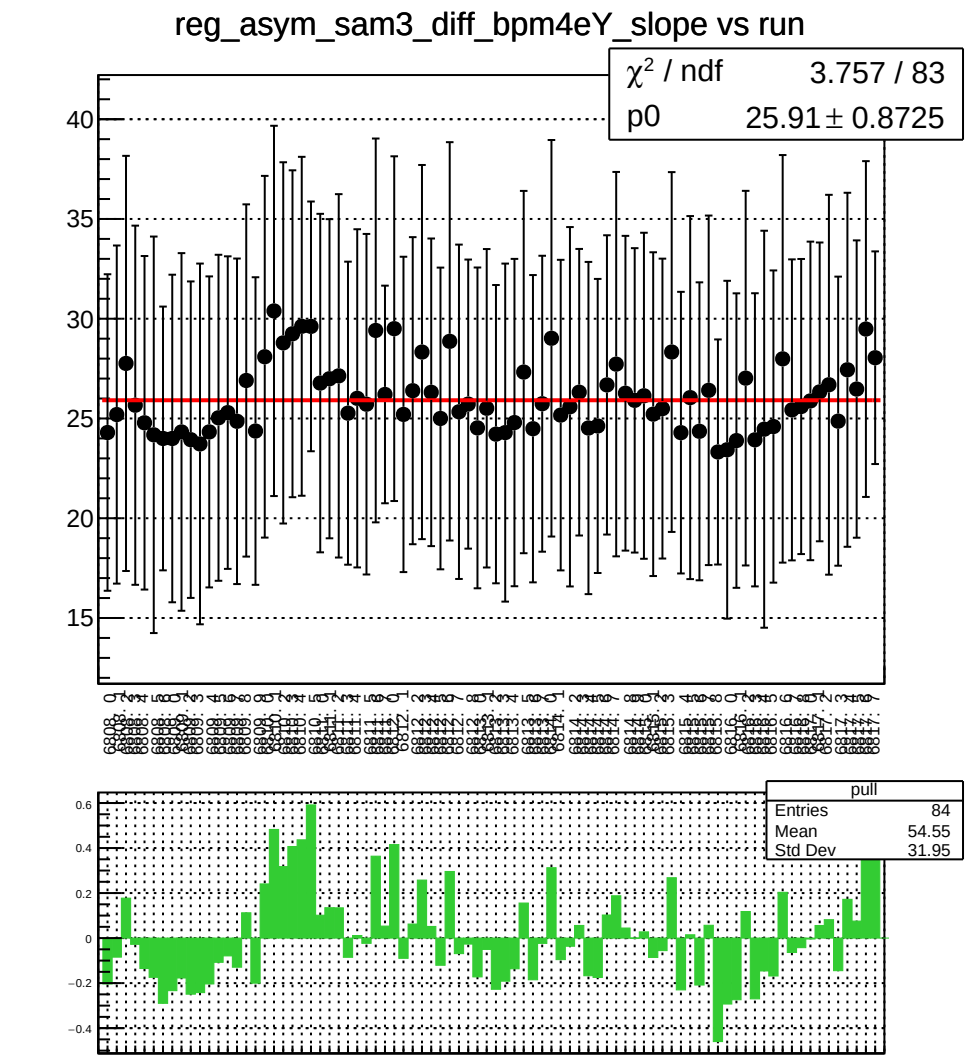

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 2.57 / 83
p0 −31.81 ± 1.129
pull
Entries 84
Mean 127.7
Std Dev 37.21
pull1D
Entries 84
Mean 0.002014
Std Dev 0.1749

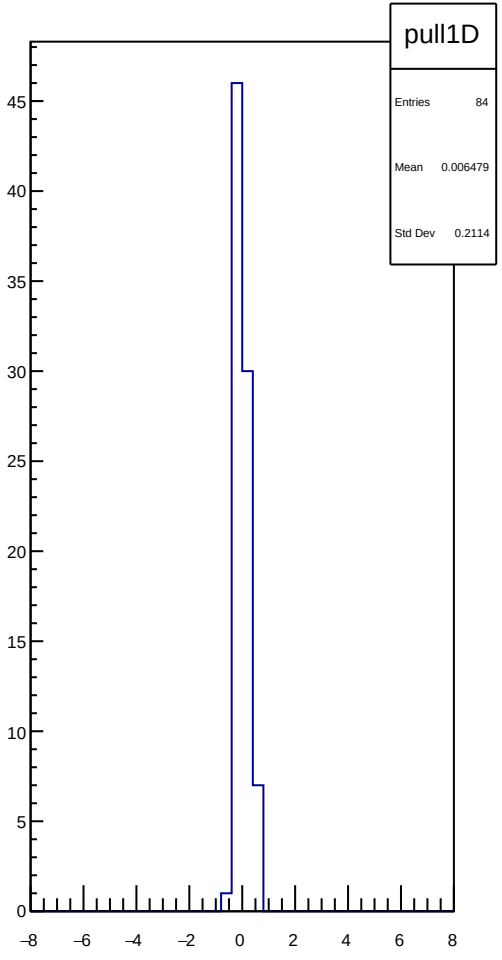

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 3.832 / 83
p0 −4.587 ± 0.7212
pull
Entries 84
Mean 83.14
Std Dev 32.2

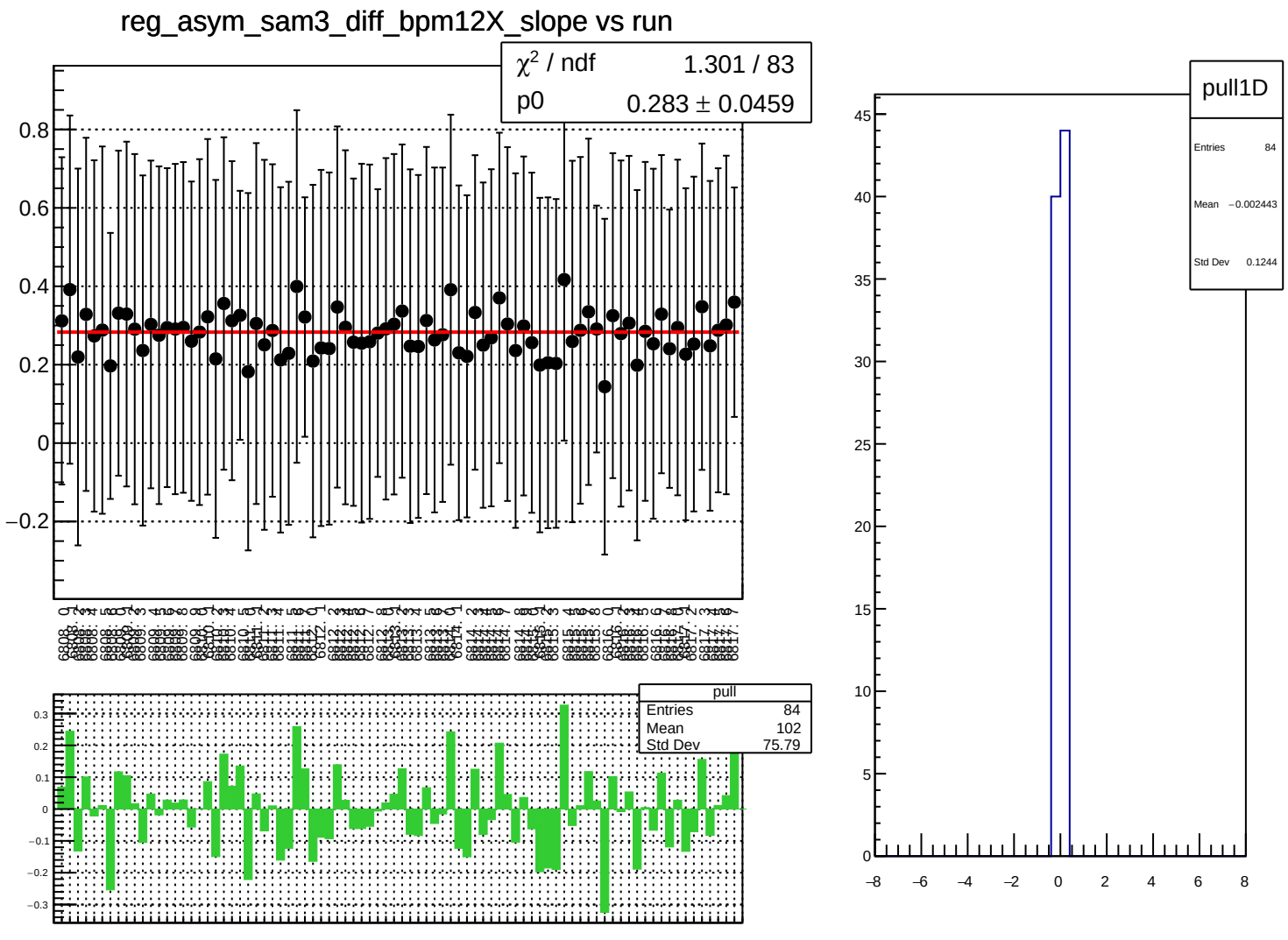

pull1D
Entries 84
Mean −0.008939
Std Dev 0.2134

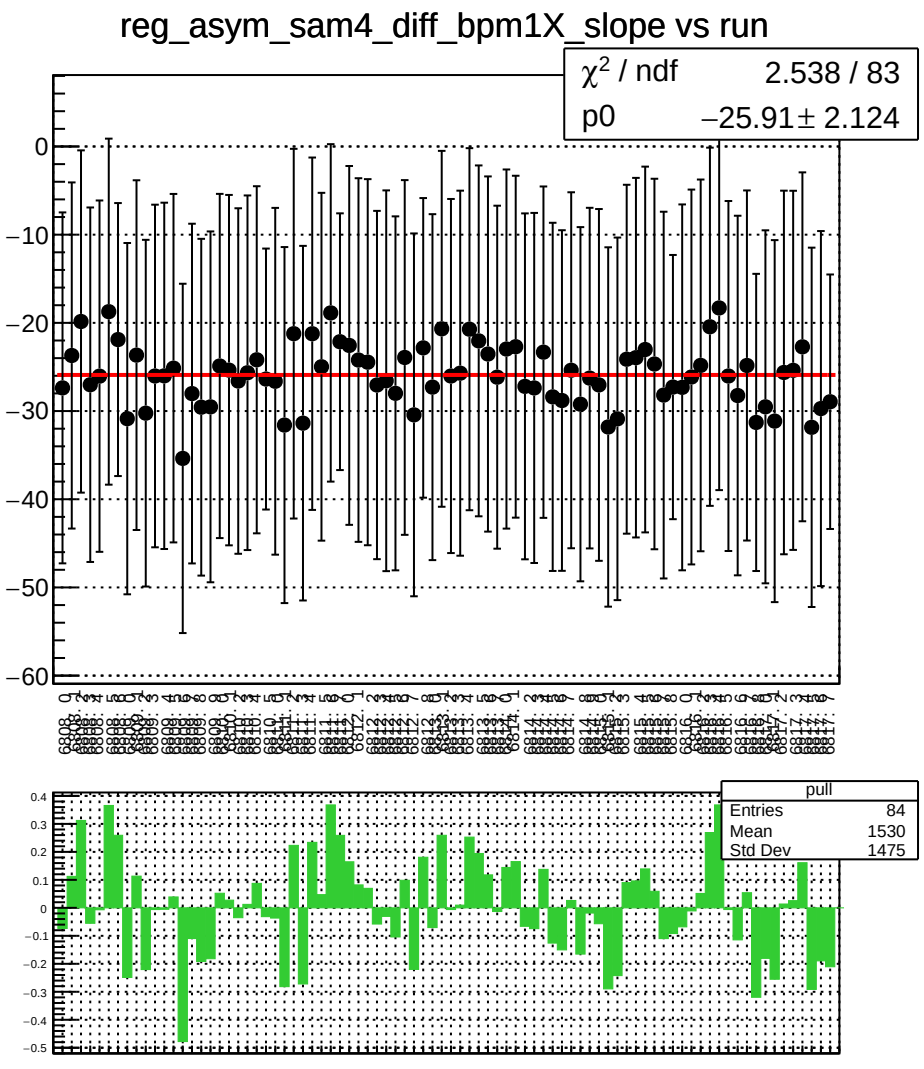

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 7.841 / 83
p0 −78.58 ± 1.056
pull
Entries 84
Mean −8.46
Std Dev 56.06

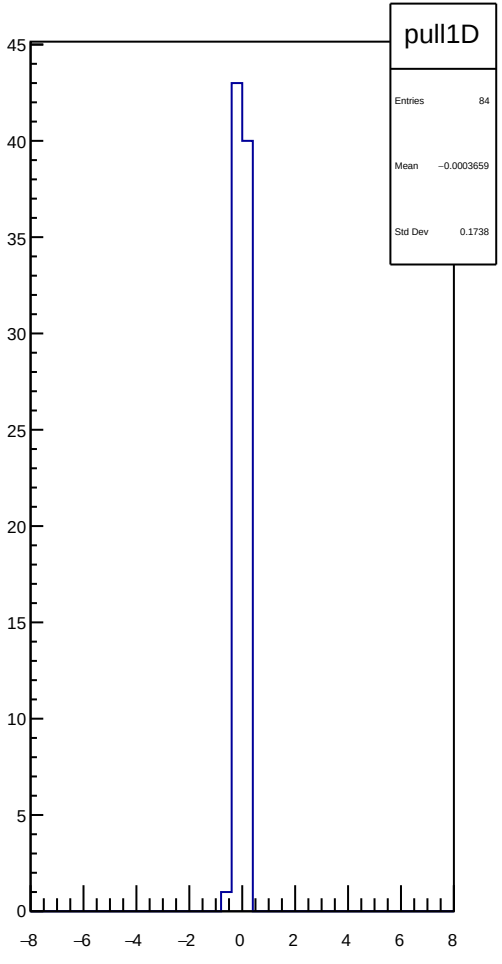

pull1D
Entries 84
Mean −0.0128
Std Dev 0.3053

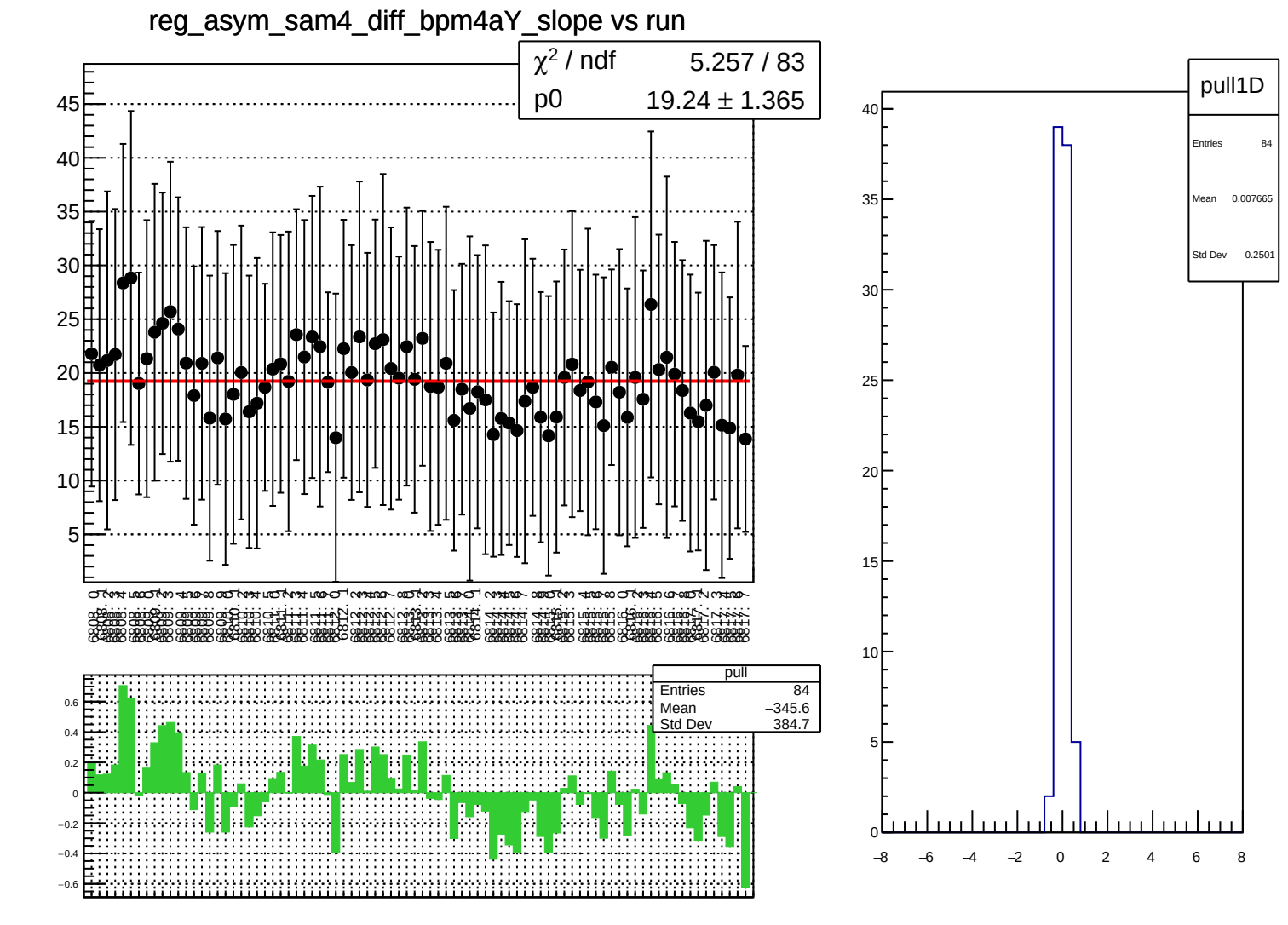

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 3.757 / 83
p0 25.91 ± 0.8725
pull
Entries 84
Mean 54.55
Std Dev 31.95

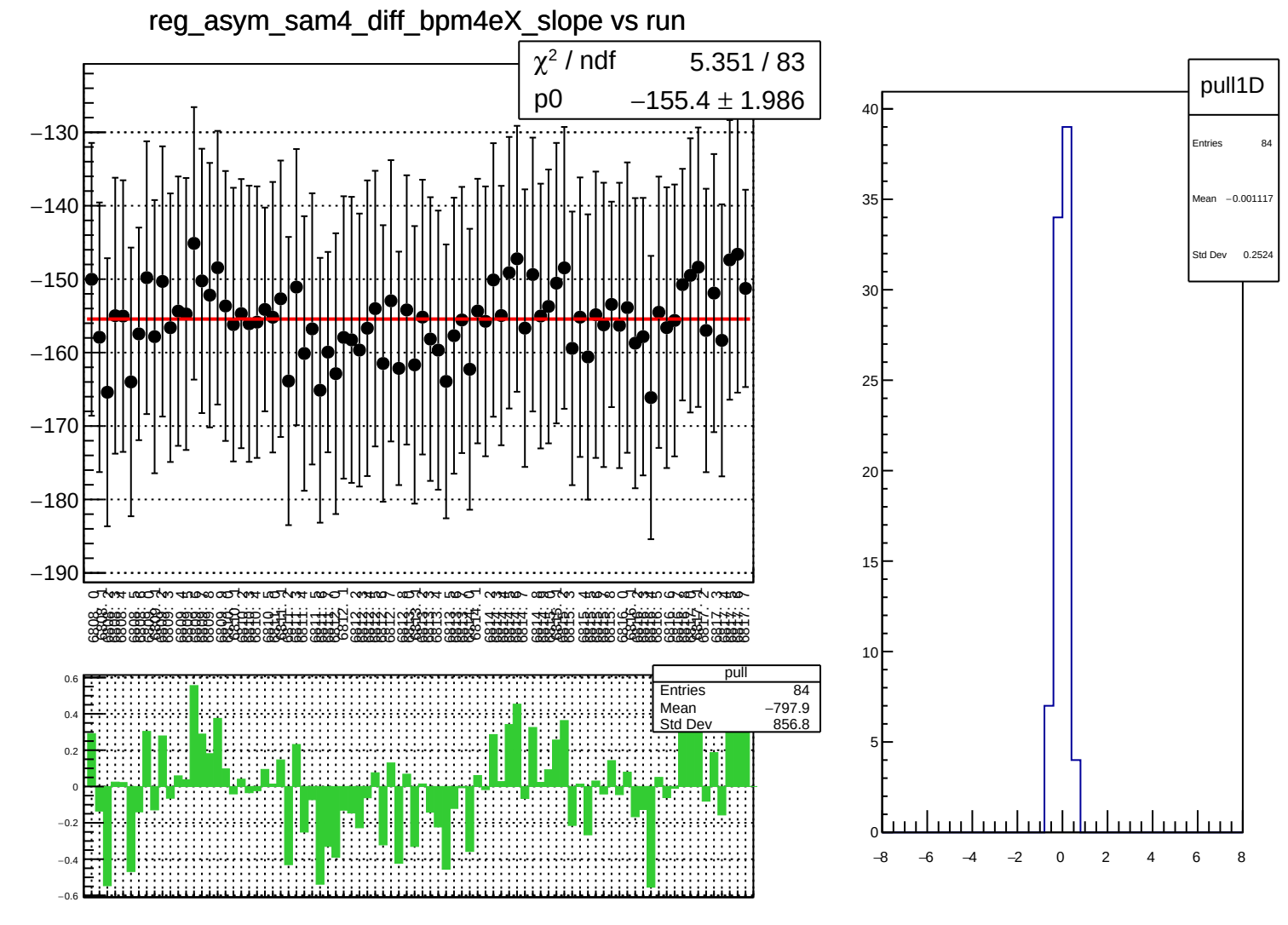

pull1D
Entries 84
Mean 0.006479
Std Dev 0.2114

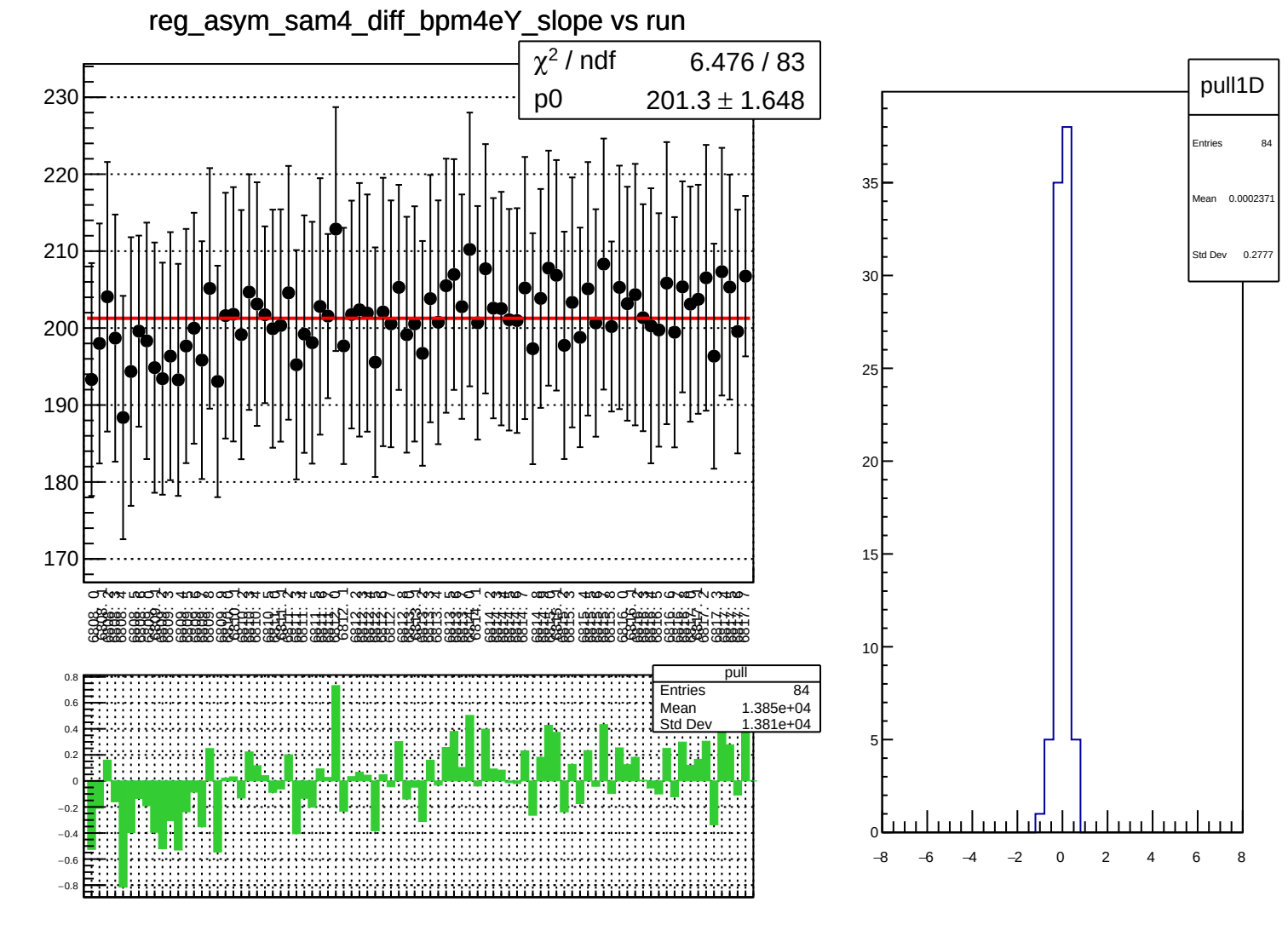

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 1.301 / 83
p0 0.283 ± 0.0459
pull
Entries 84
Mean 102
Std Dev 75.79
pull1D
Entries 84
Mean −0.002443
Std Dev 0.1244

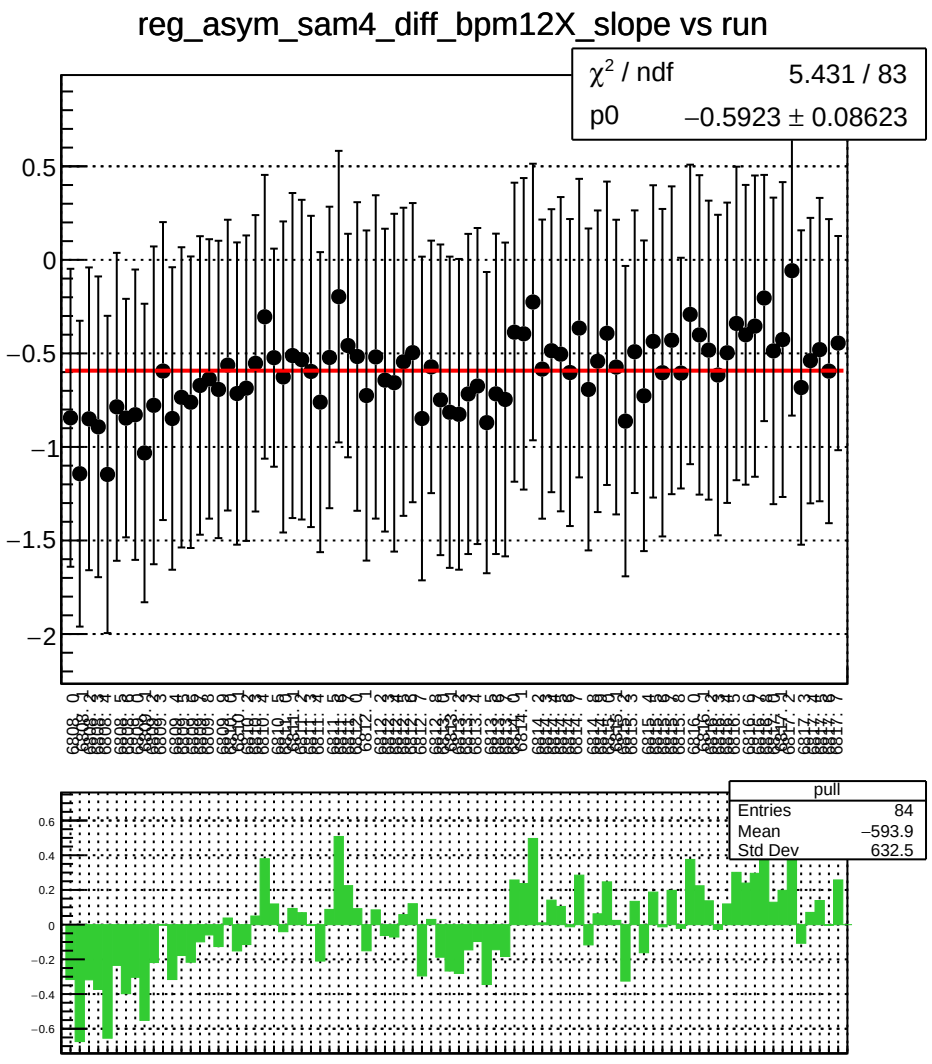

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 2.538 / 83
p0 −25.91 ± 2.124
pull
Entries 84
Mean 1530
Std Dev 1475

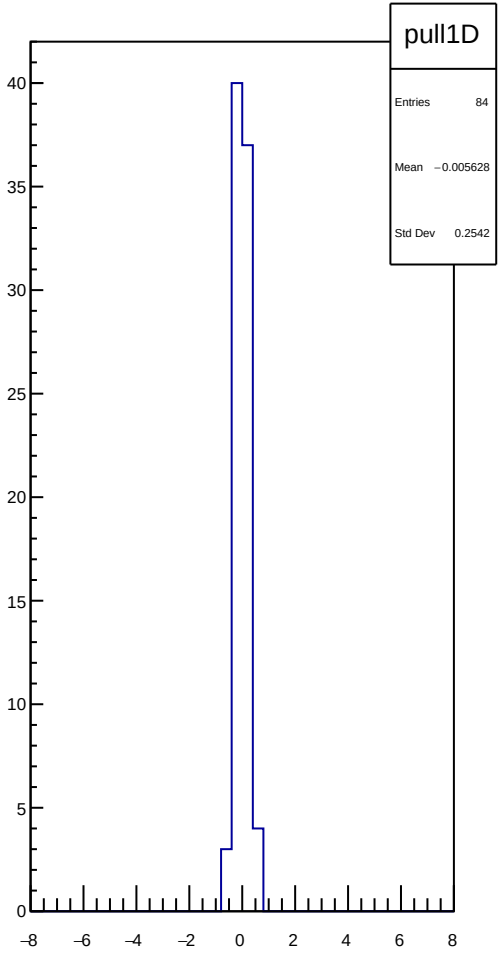

pull1D
Entries 84
Mean −0.0003659
Std Dev 0.1738

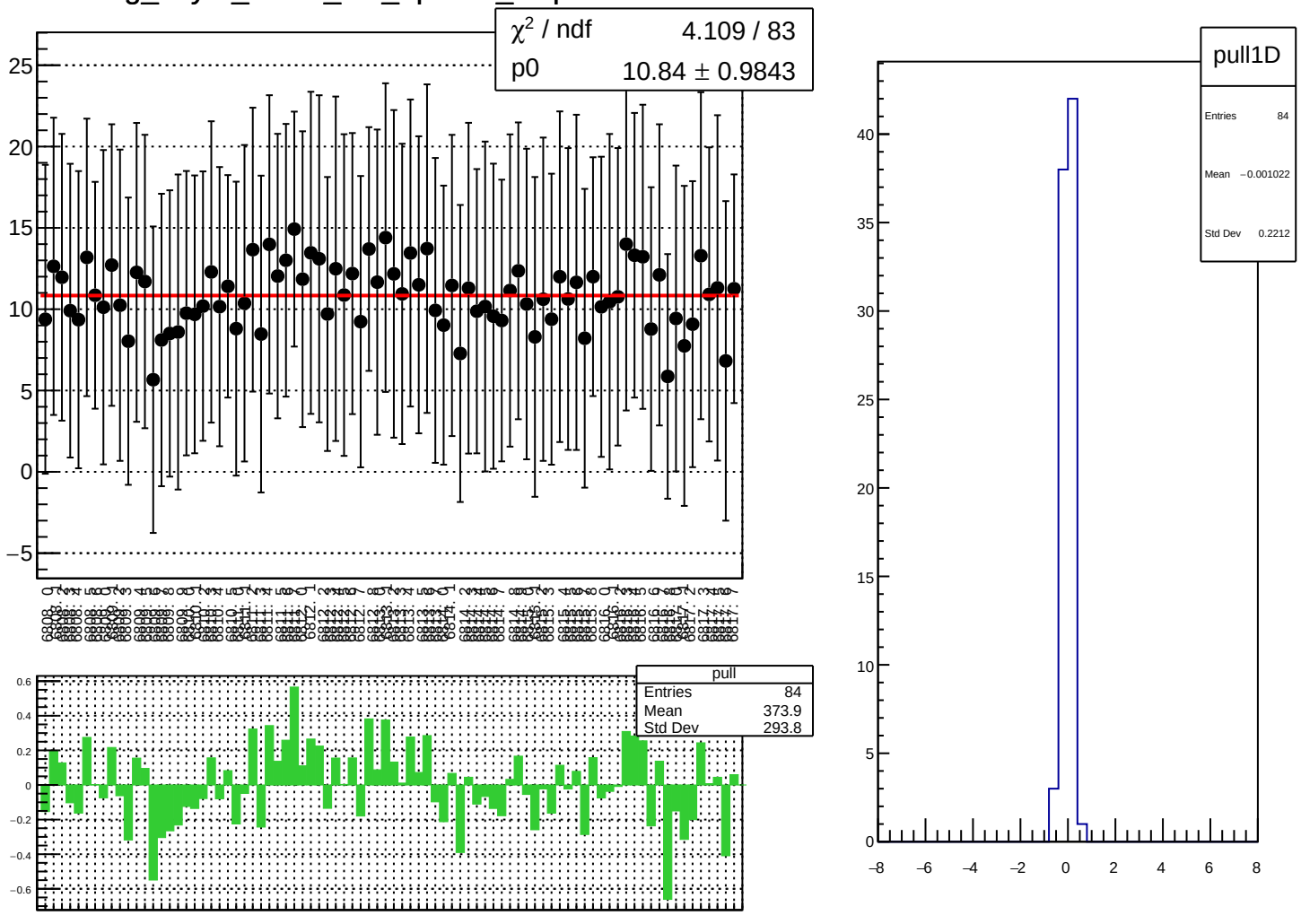

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 5.257 / 83
p0 19.24 ± 1.365
pull
Entries 84
Mean −345.6
Std Dev 384.7
pull1D
Entries 84
Mean 0.007665
Std Dev 0.2501

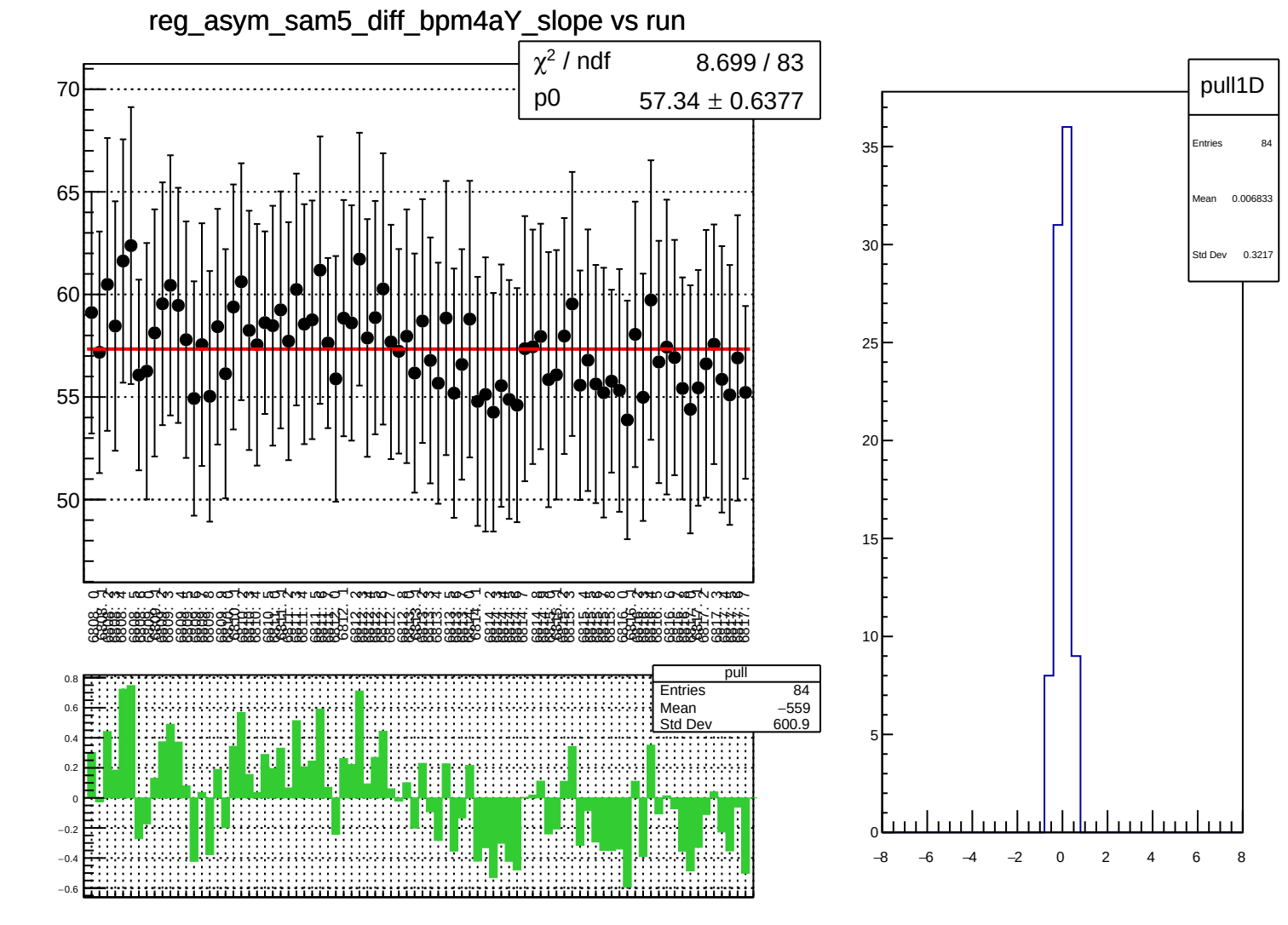

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 5.351 / 83
p0 −155.4 ± 1.986
−130
−140
−150
−160
−170
−180
−190
pull
Entries 84
Mean −797.9
Std Dev 856.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 84
Mean −0.001117
Std Dev 0.2524
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

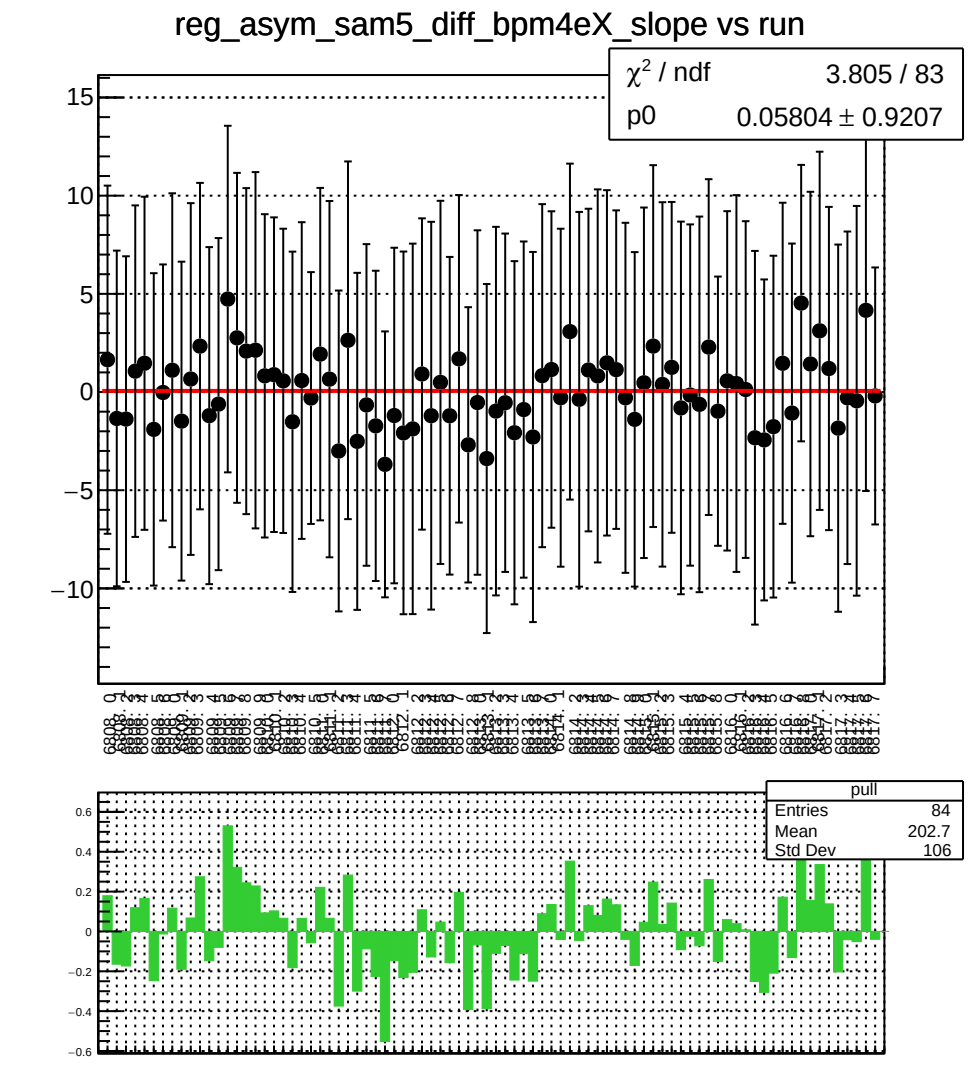

reg_asym_sam4_diff_bpm4eY_slope vs run
χ^2 / ndf 6.476 / 83
p0 201.3 ± 1.648
230
220
210
200
190
180
170
pull
Entries 84
Mean 1.385e+04
Std Dev 1.381e+04
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 84
Mean 0.0002371
Std Dev 0.2777
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

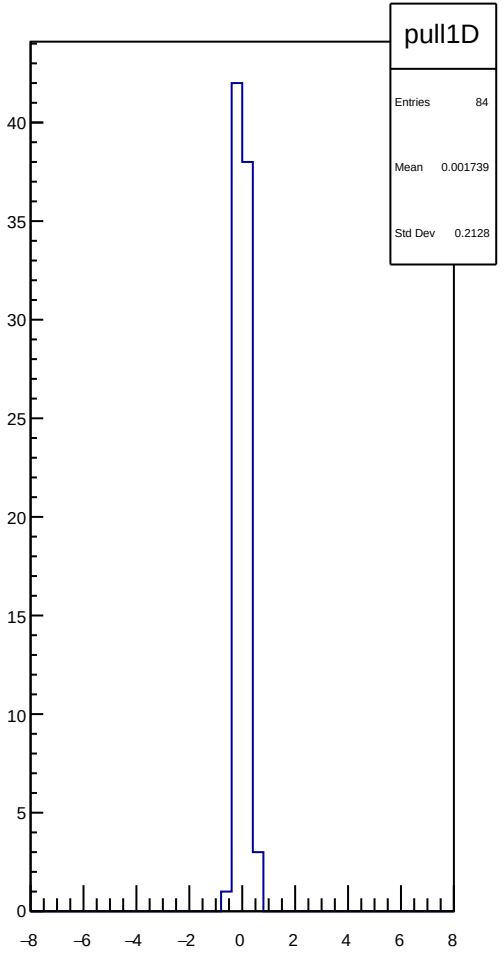

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 5.431 / 83
p0 −0.5923 ± 0.08623
pull
Entries 84
Mean −593.9
Std Dev 632.5

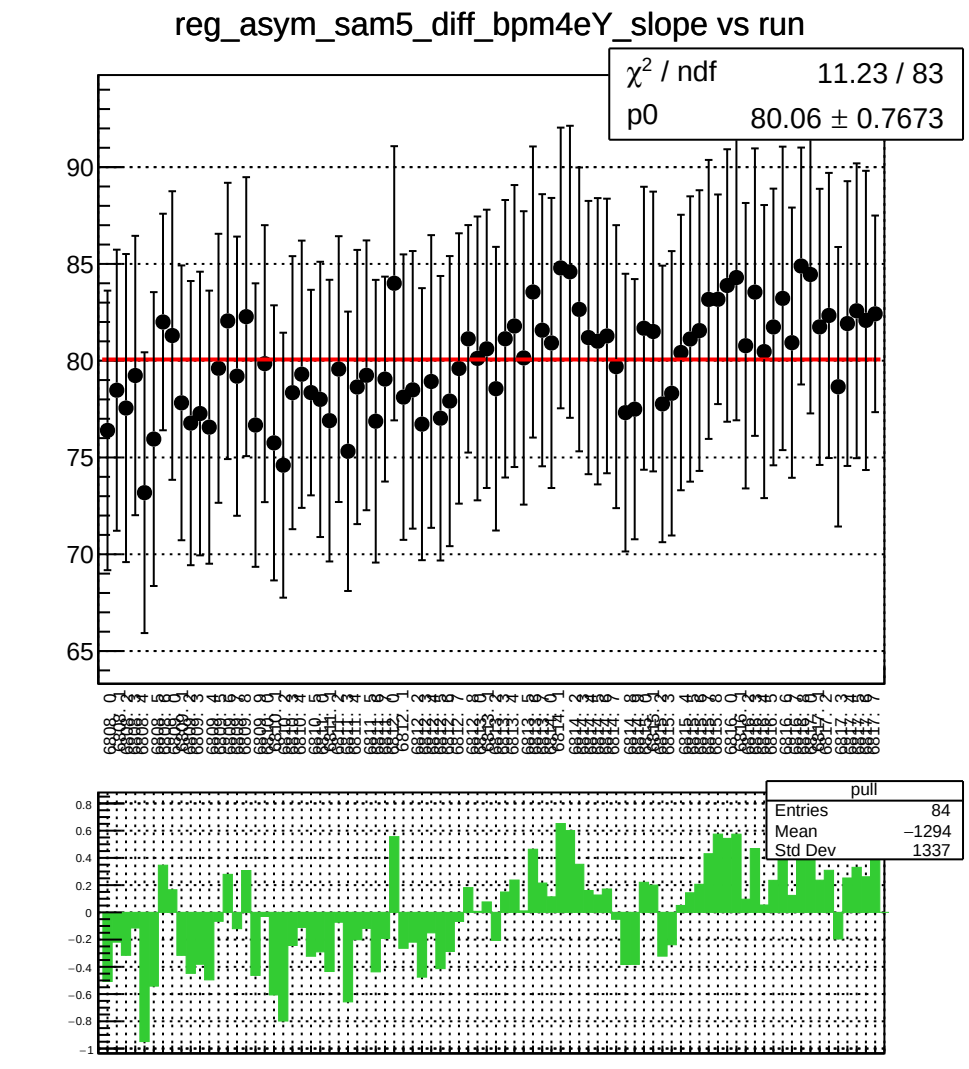

pull1D
Entries 84
Mean −0.005628
Std Dev 0.2542

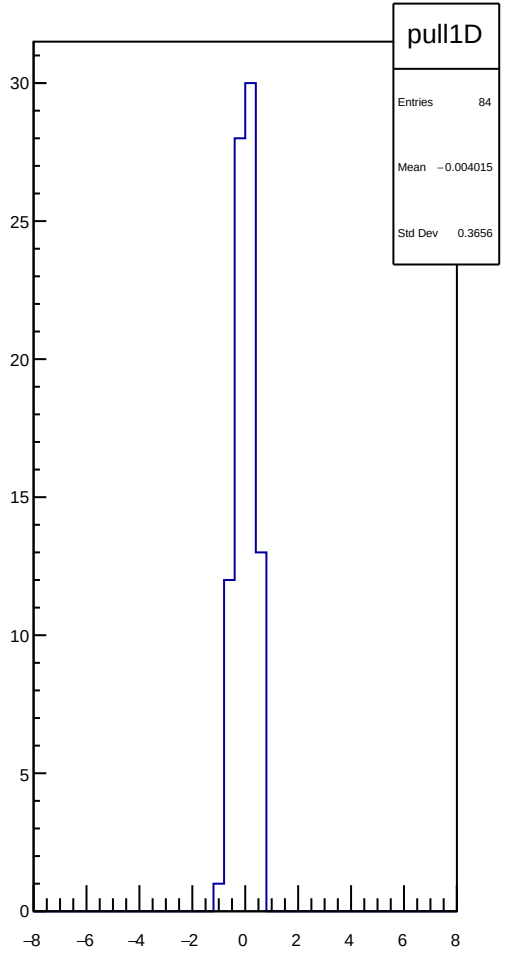

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 4.109 / 83
p0 10.84 ± 0.9843
pull
Entries 84
Mean 373.9
Std Dev 293.8
pull1D
Entries 84
Mean −0.001022
Std Dev 0.2212

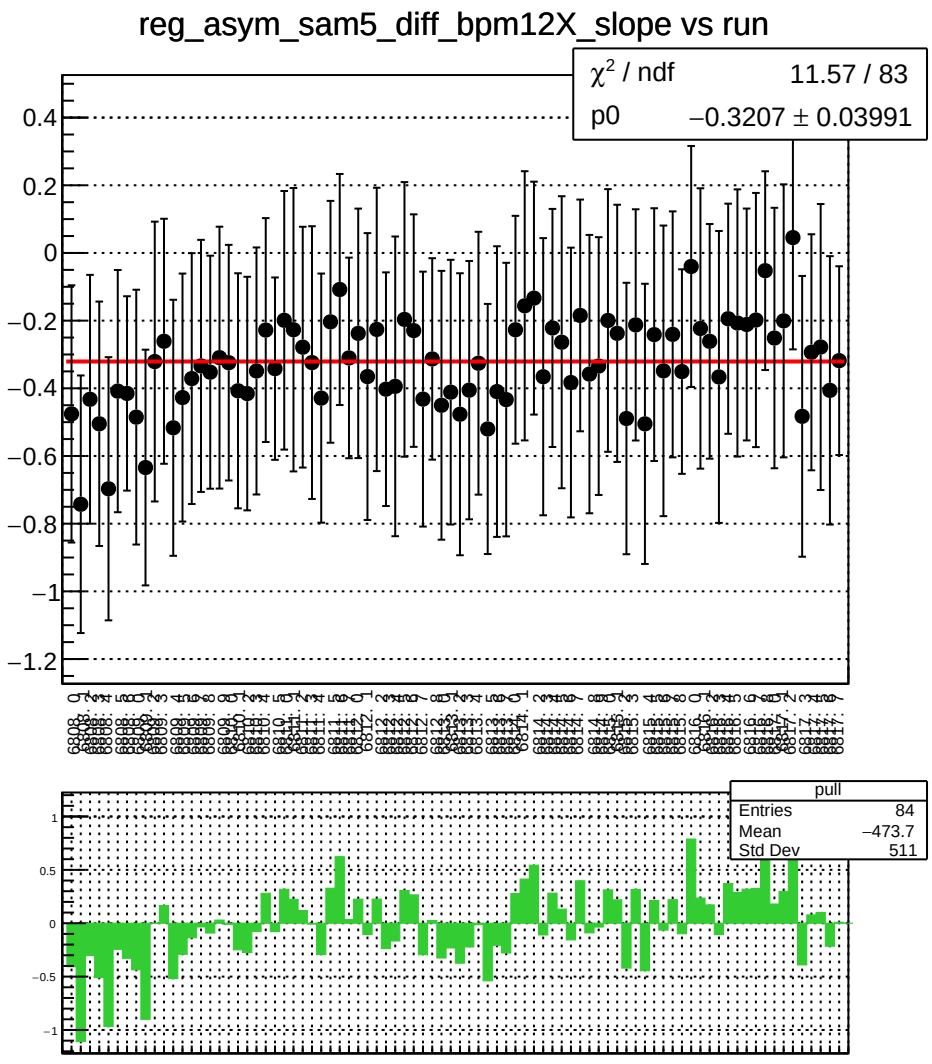

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 8.699 / 83
p0 57.34 ± 0.6377
pull
Entries 84
Mean −559
Std Dev 600.9
pull1D
Entries 84
Mean 0.006833
Std Dev 0.3217

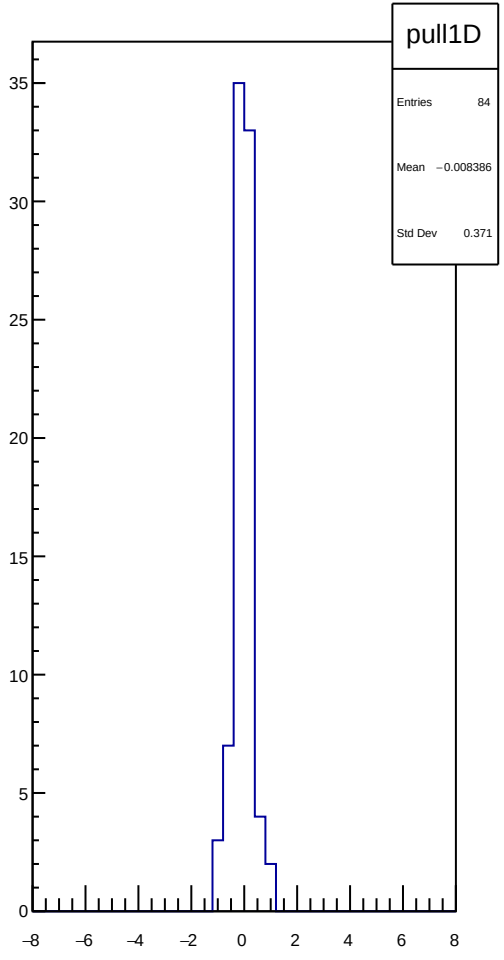

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 3.805 / 83
p0 0.05804 ± 0.9207
pull
Entries 84
Mean 202.7
Std Dev 106

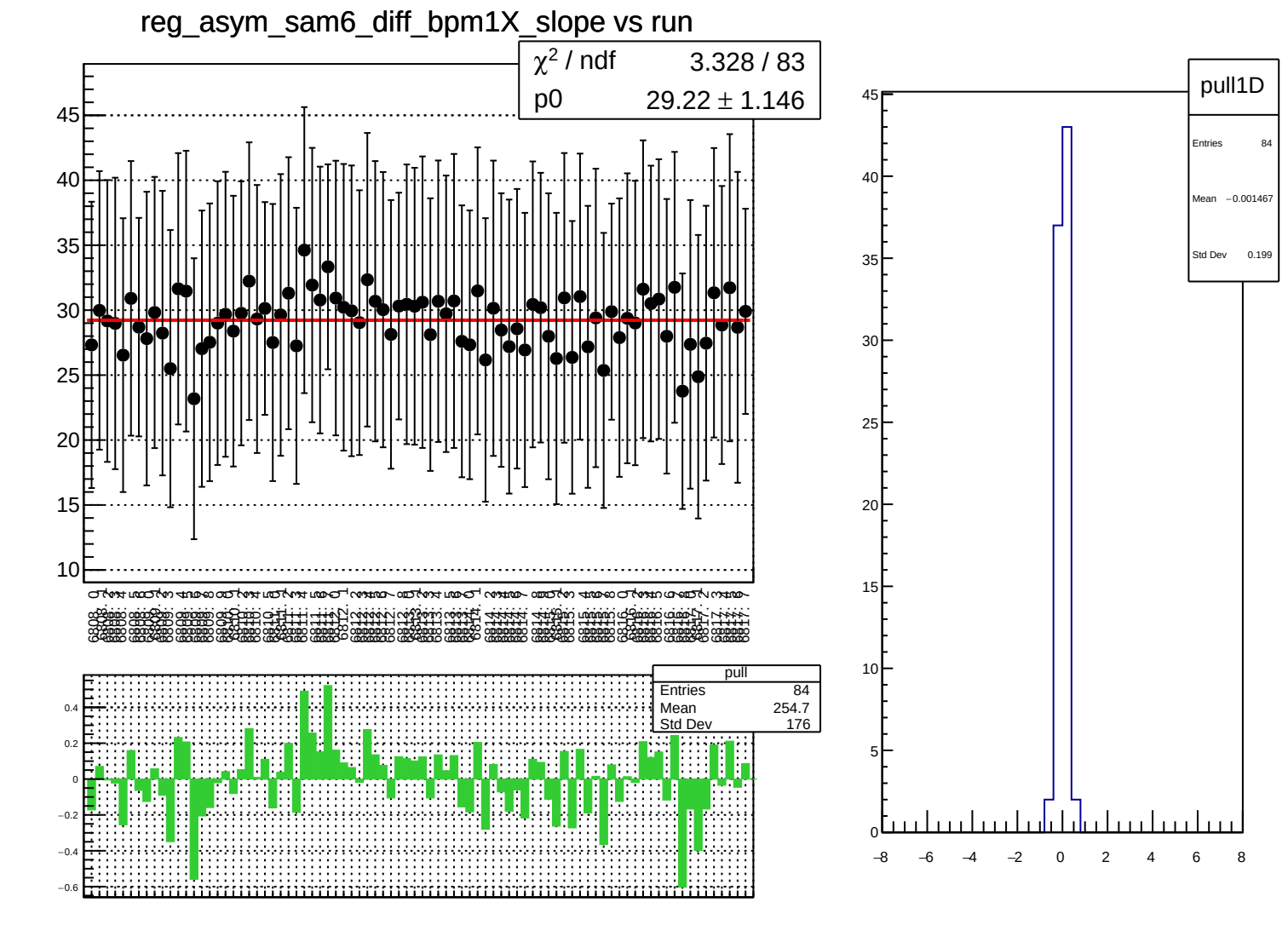

pull1D
Entries 84
Mean 0.001739
Std Dev 0.2128

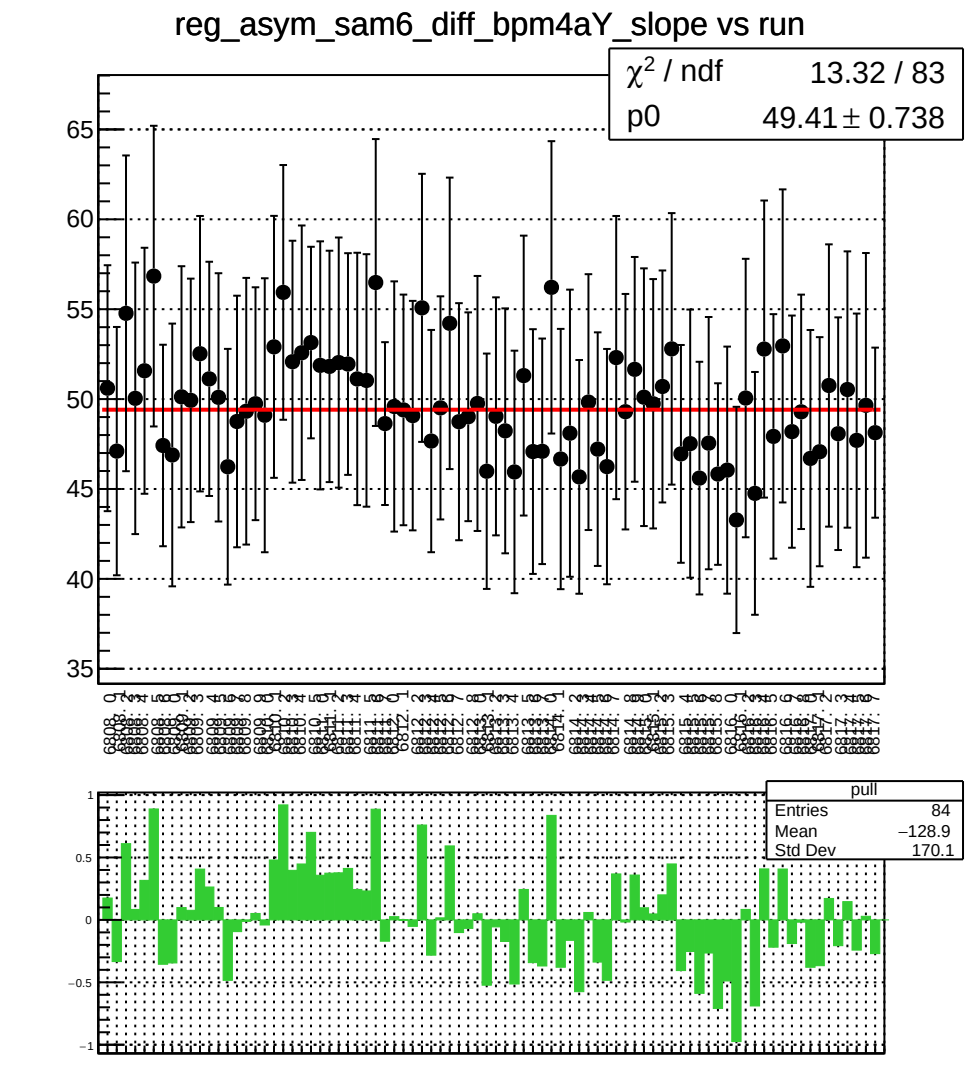

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 11.23 / 83
p0 80.06 ± 0.7673
90
85
80
75
70
65
pull
Entries 84
Mean −1294
Std Dev 1337
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

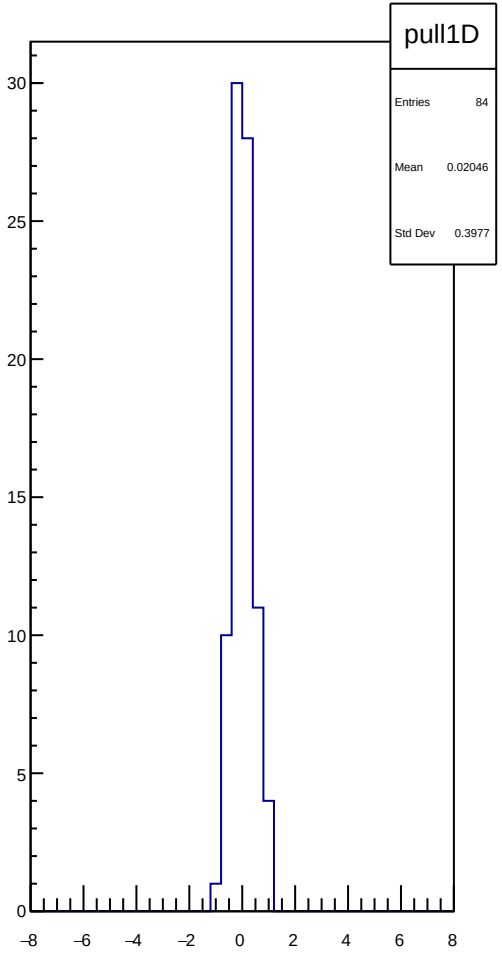

pull1D
Entries 84
Mean −0.004015
Std Dev 0.3656
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

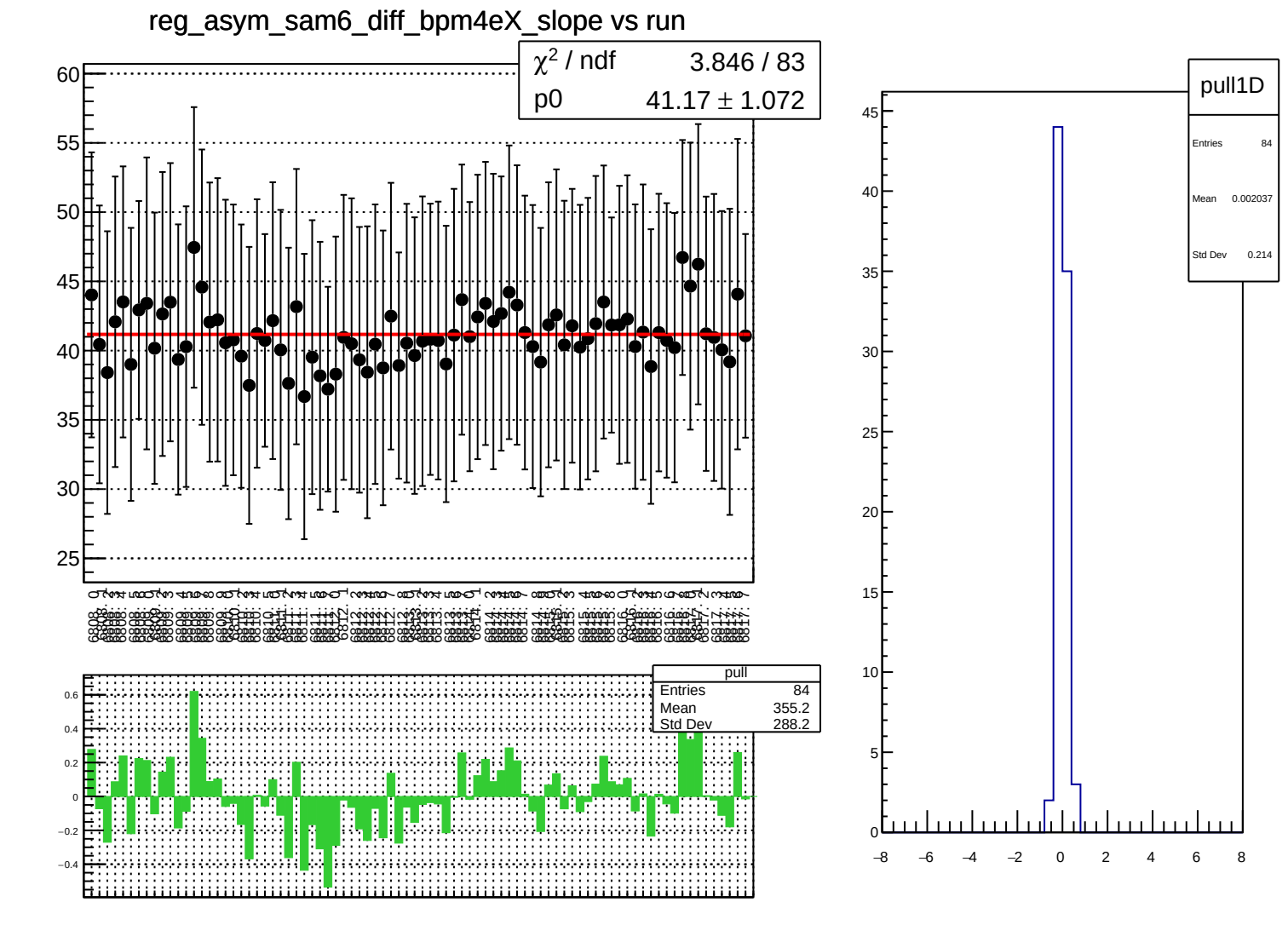

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 11.57 / 83
p0 −0.3207 ± 0.03991
pull
Entries 84
Mean −473.7
Std Dev 511

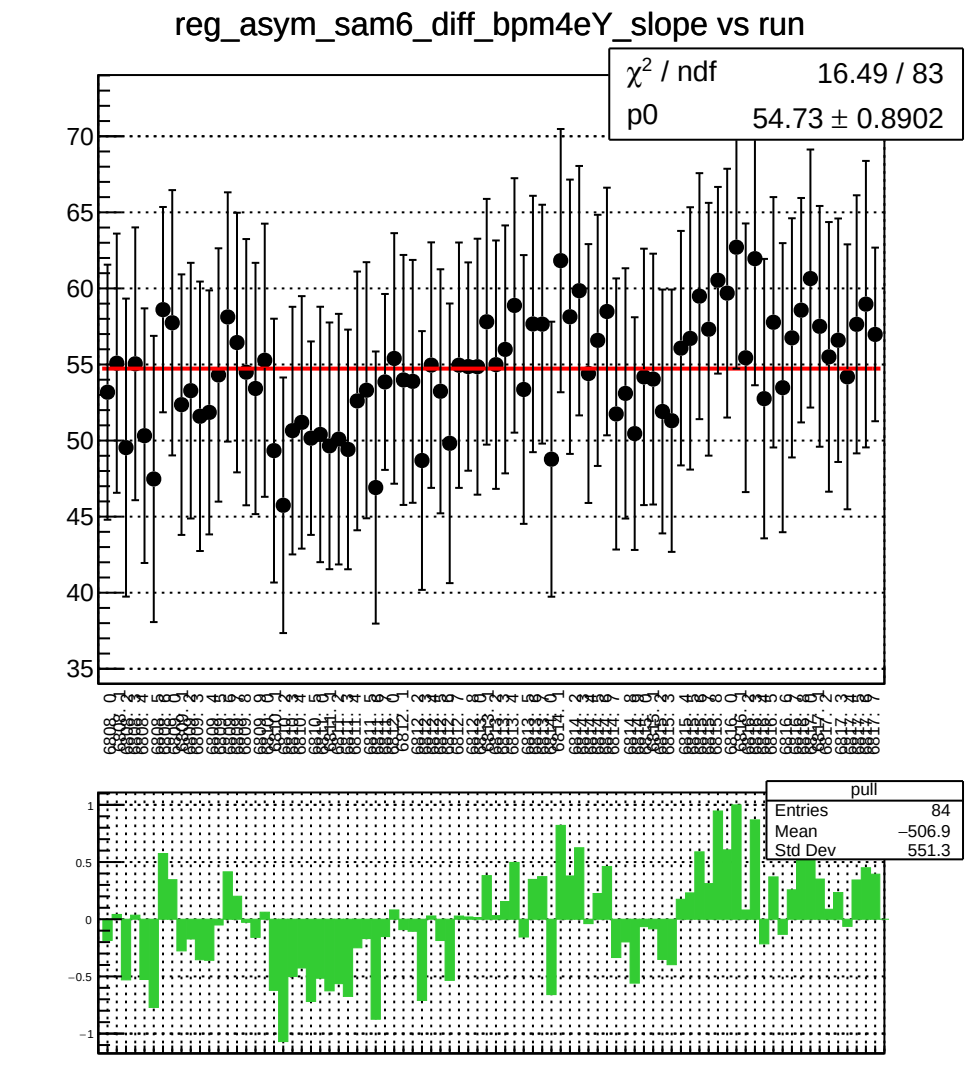

pull1D
Entries 84
Mean −0.008386
Std Dev 0.371

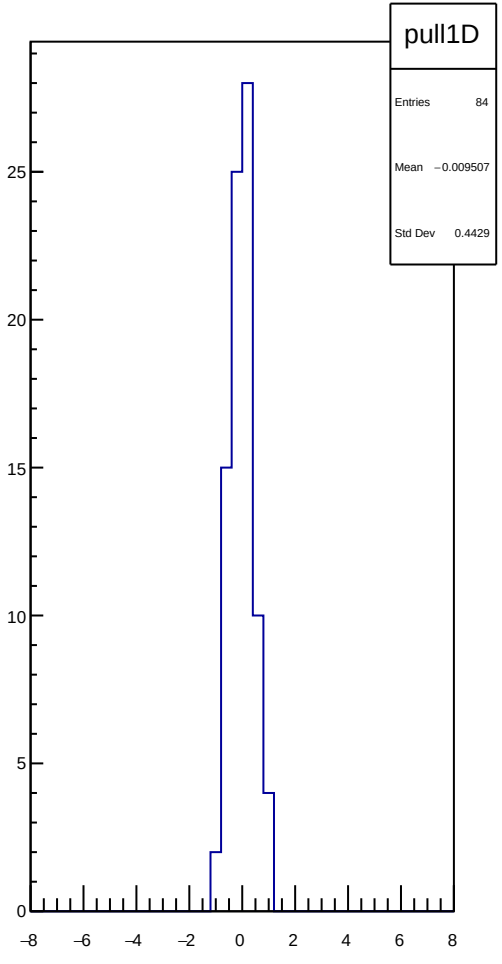

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 3.328 / 83
p0 29.22 ± 1.146
pull
Entries 84
Mean 254.7
Std Dev 176
pull1D
Entries 84
Mean −0.001467
Std Dev 0.199

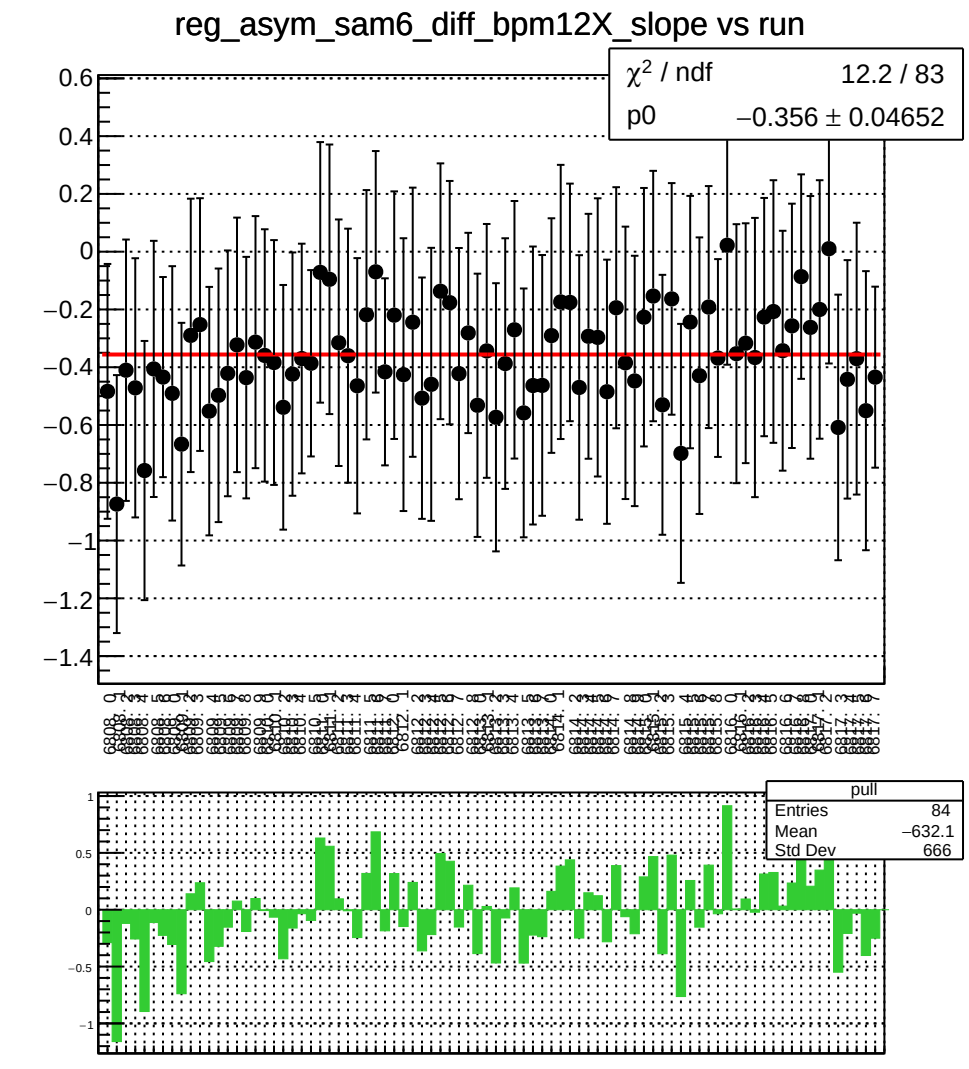

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 13.32 / 83
p0 49.41 ± 0.738
pull
Entries 84
Mean −128.9
Std Dev 170.1

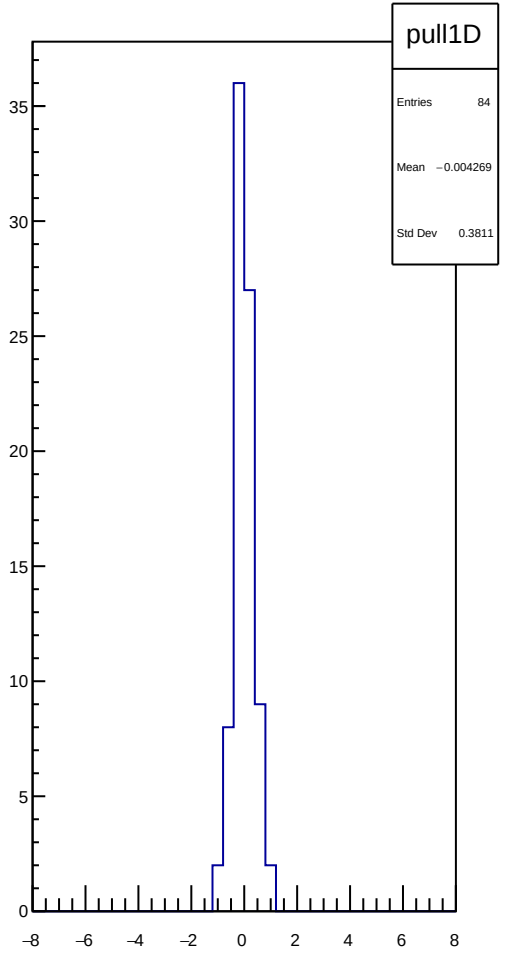

pull1D
Entries 84
Mean 0.02046
Std Dev 0.3977

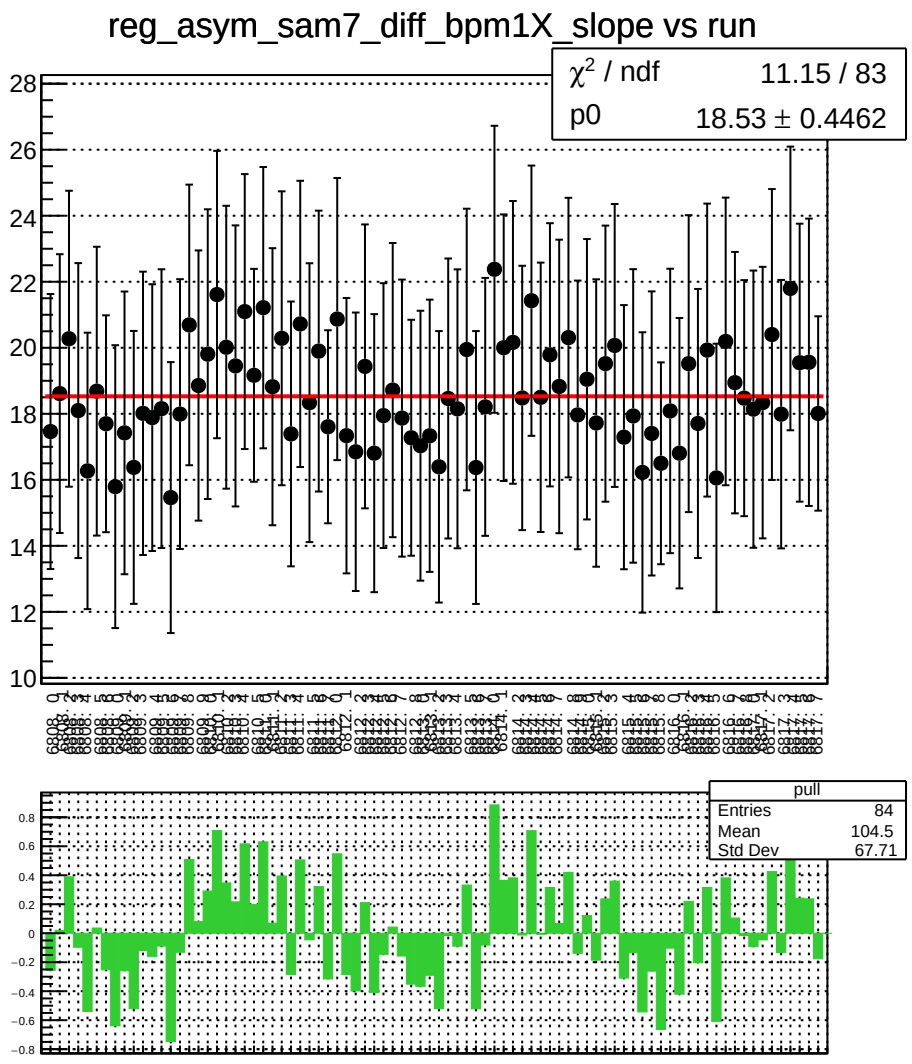

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 3.846 / 83
p0 41.17 ± 1.072
pull
Entries 84
Mean 355.2
Std Dev 288.2
pull1D
Entries 84
Mean 0.002037
Std Dev 0.214

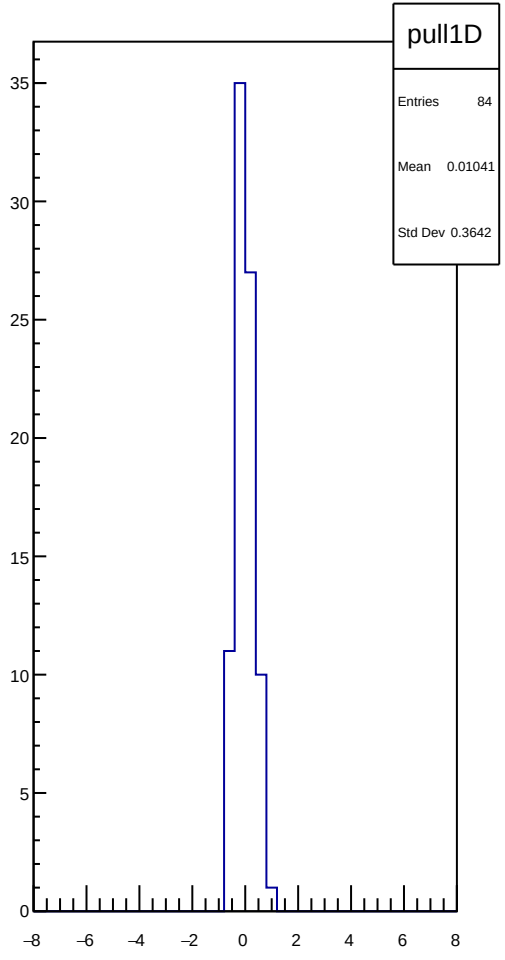

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 16.49 / 83
p0 54.73 ± 0.8902
pull
Entries 84
Mean −506.9
Std Dev 551.3

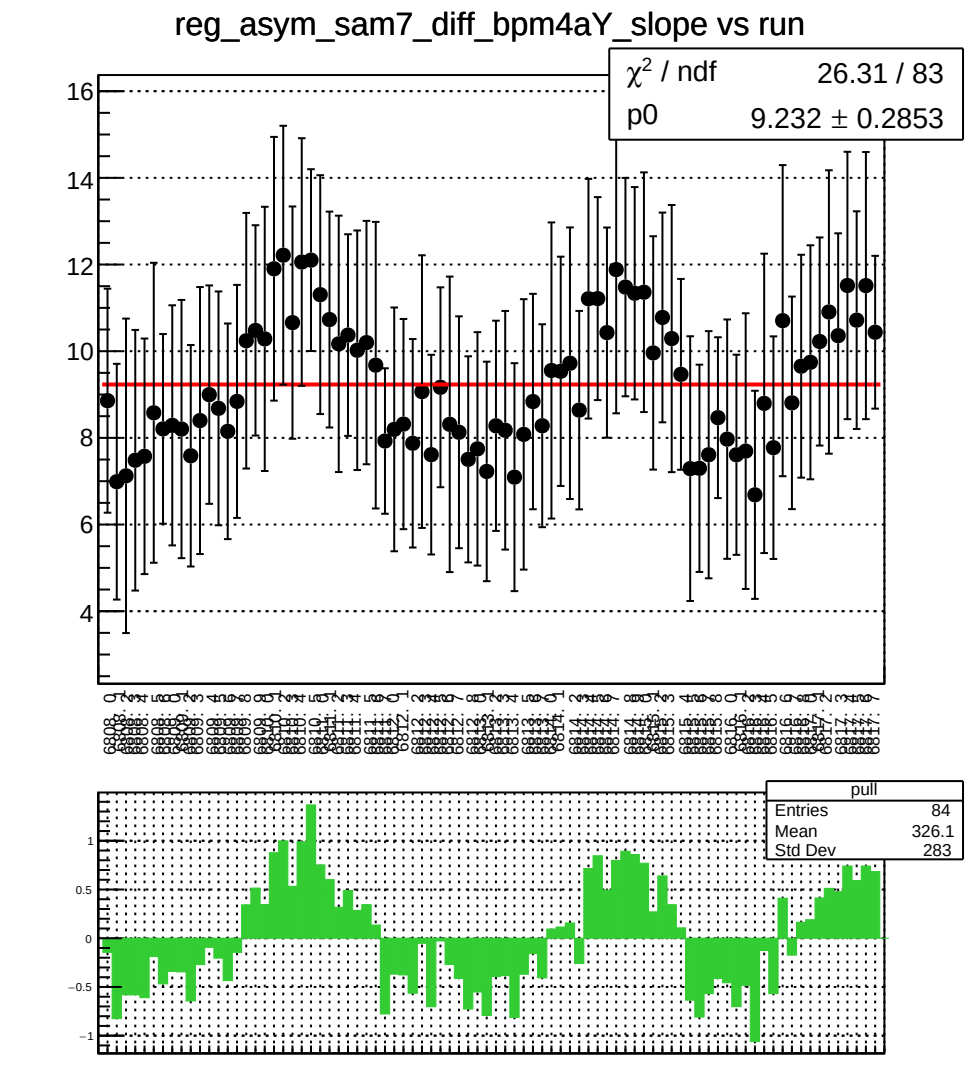

pull1D
Entries 84
Mean −0.009507
Std Dev 0.4429

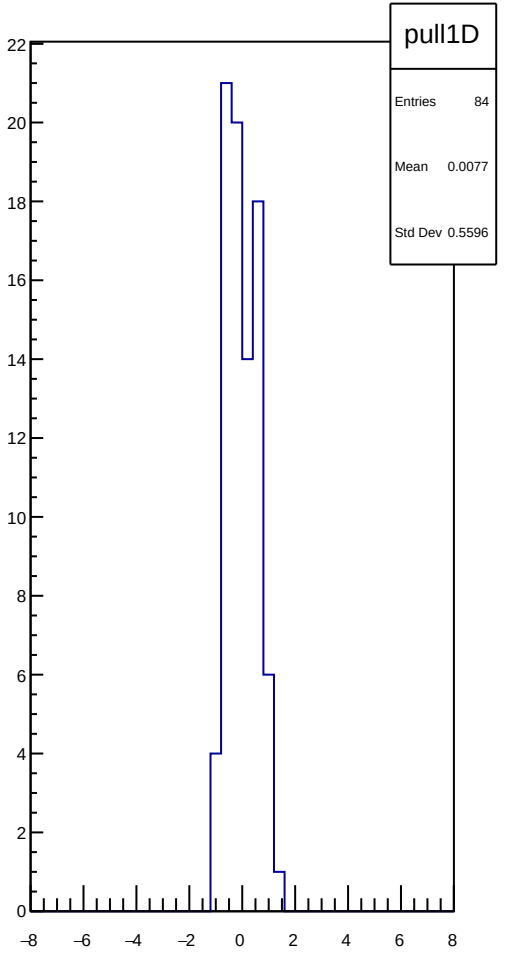

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 12.2 / 83
p0 −0.356 ± 0.04652
pull
Entries 84
Mean −632.1
Std Dev 666

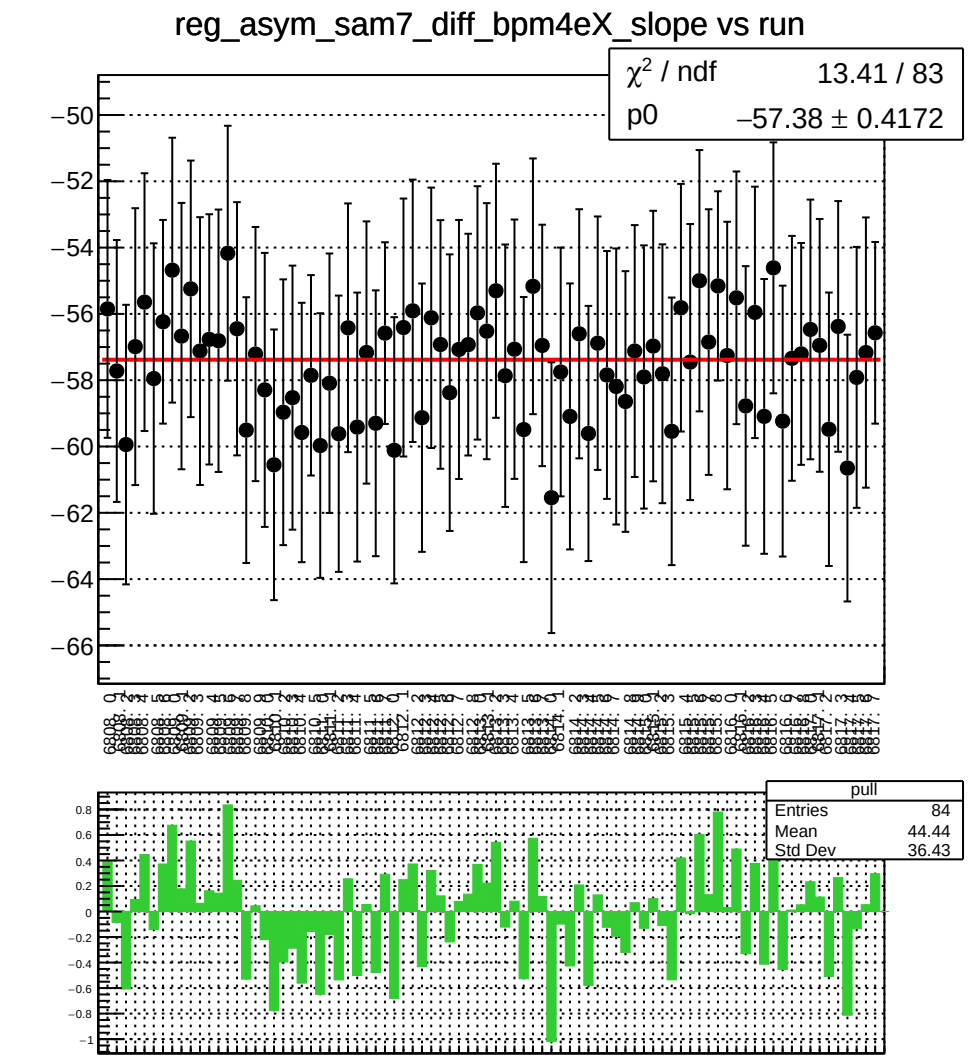

pull1D
Entries 84
Mean −0.004269
Std Dev 0.3811

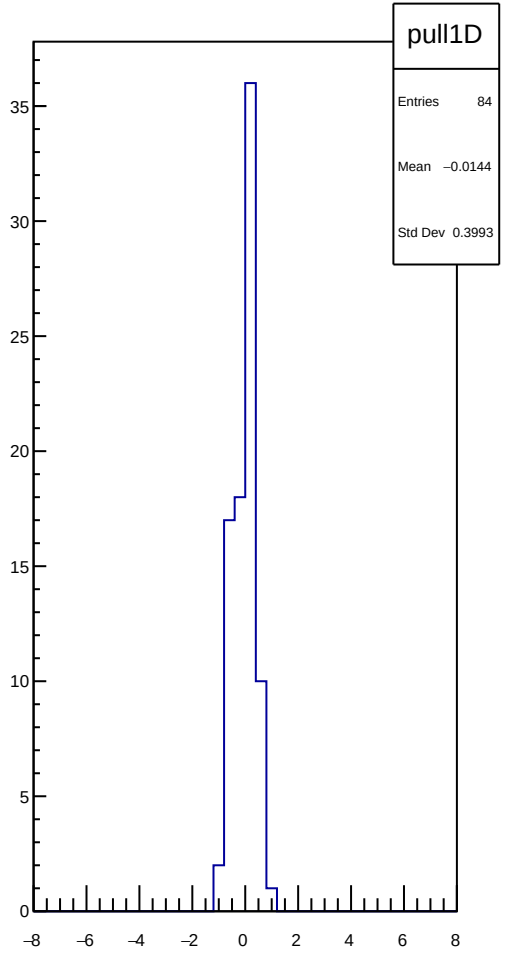

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 11.15 / 83
p0 18.53 ± 0.4462
pull
Entries 84
Mean 104.5
Std Dev 67.71

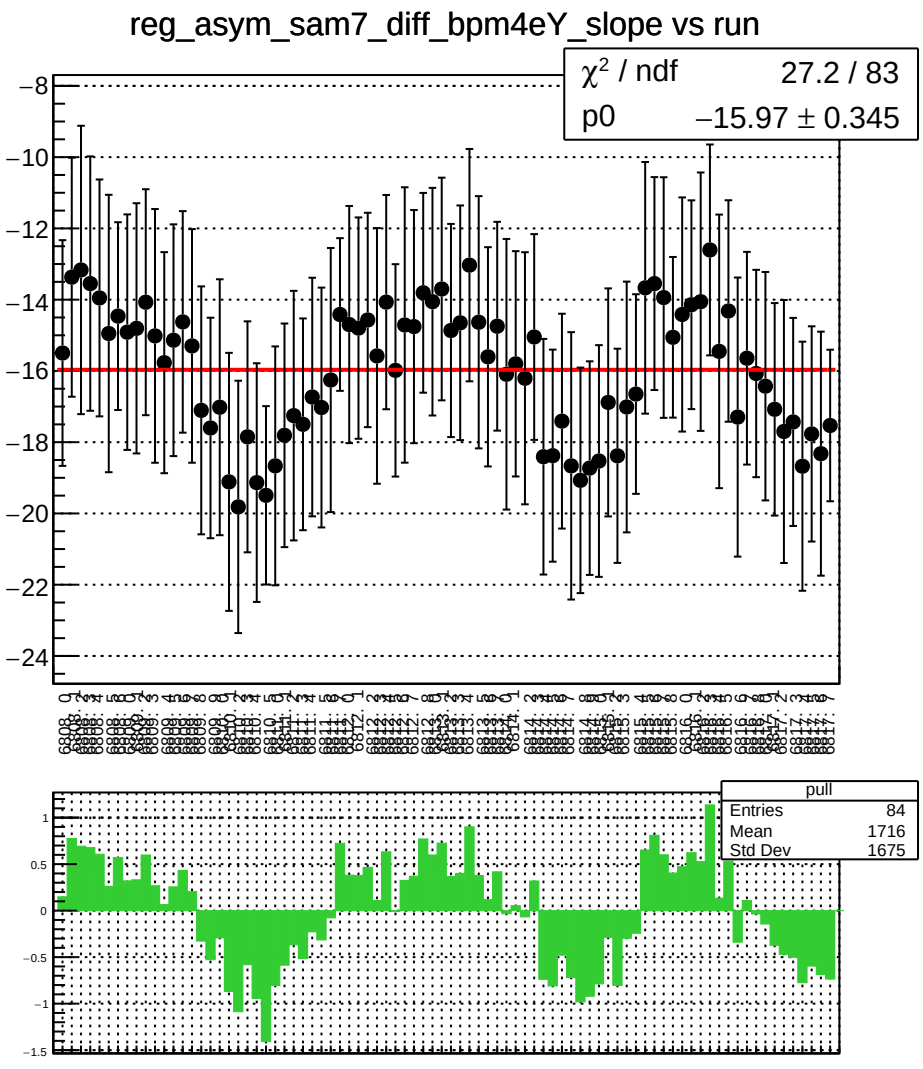

pull1D
Entries 84
Mean 0.01041
Std Dev 0.3642

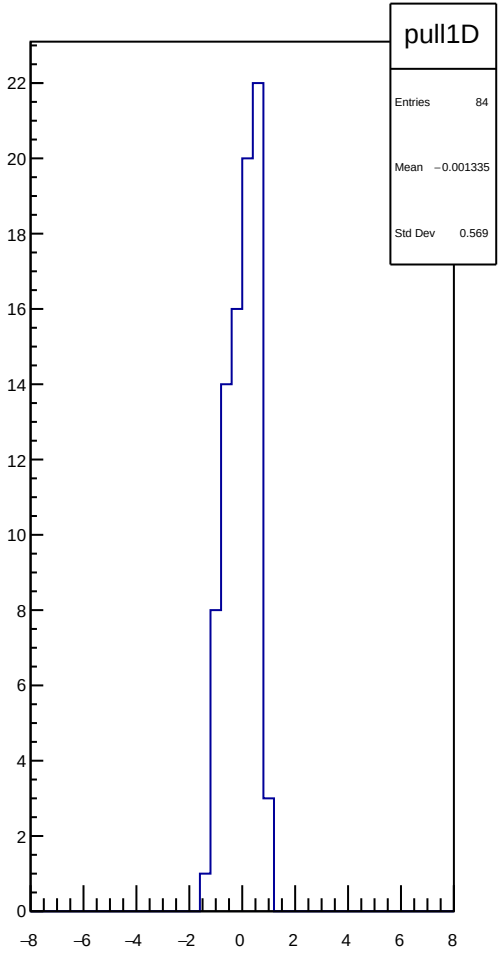

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 26.31 / 83
p0 9.232 ± 0.2853
pull
Entries 84
Mean 326.1
Std Dev 283

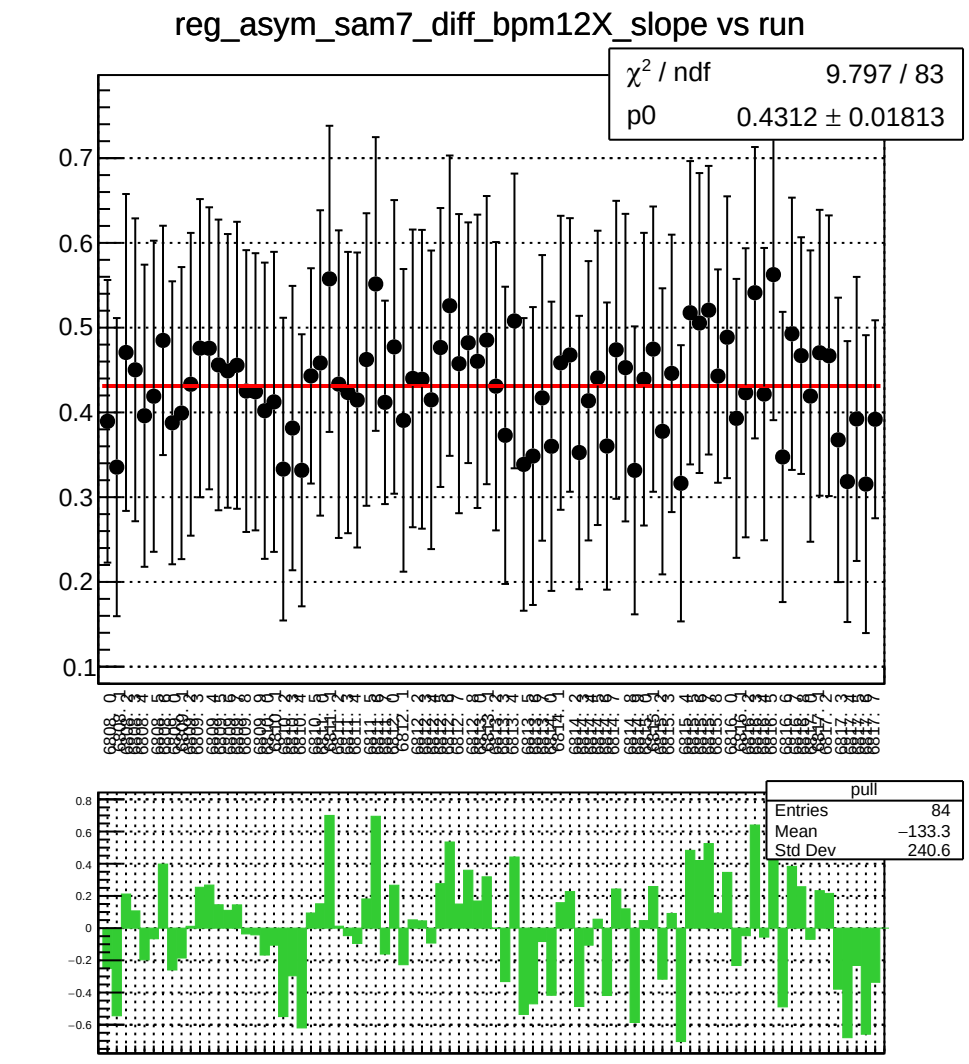

pull1D
Entries 84
Mean 0.0077
Std Dev 0.5596

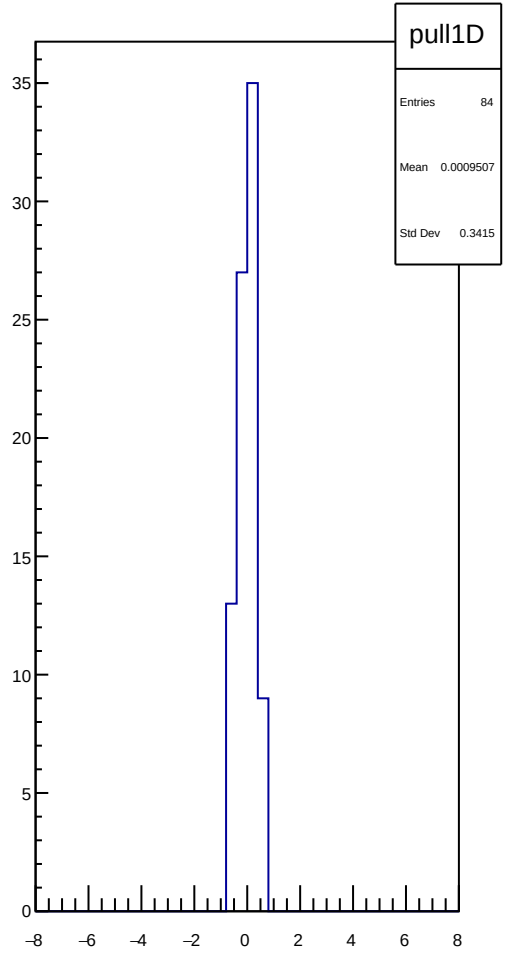

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 13.41 / 83
p0 −57.38 ± 0.4172
pull
Entries 84
Mean 44.44
Std Dev 36.43

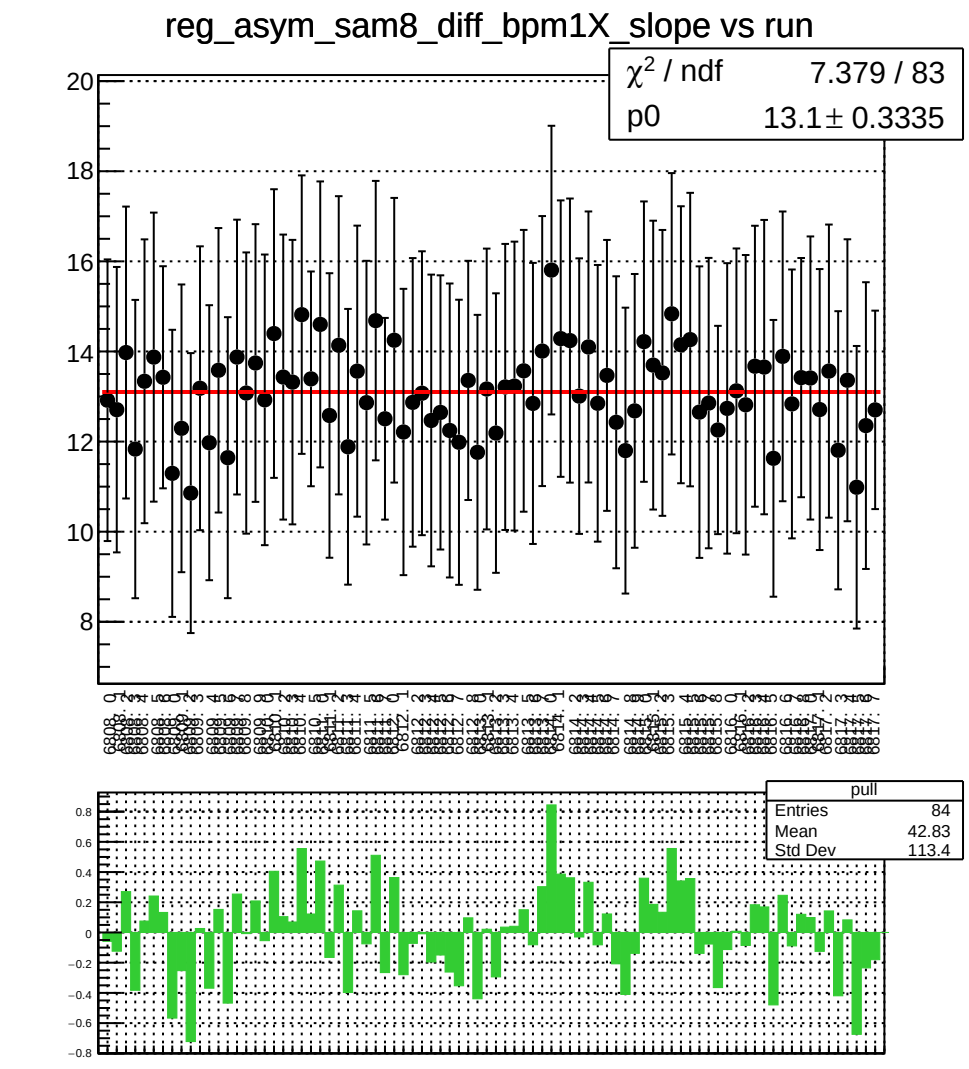

pull1D
Entries 84
Mean −0.0144
Std Dev 0.3993

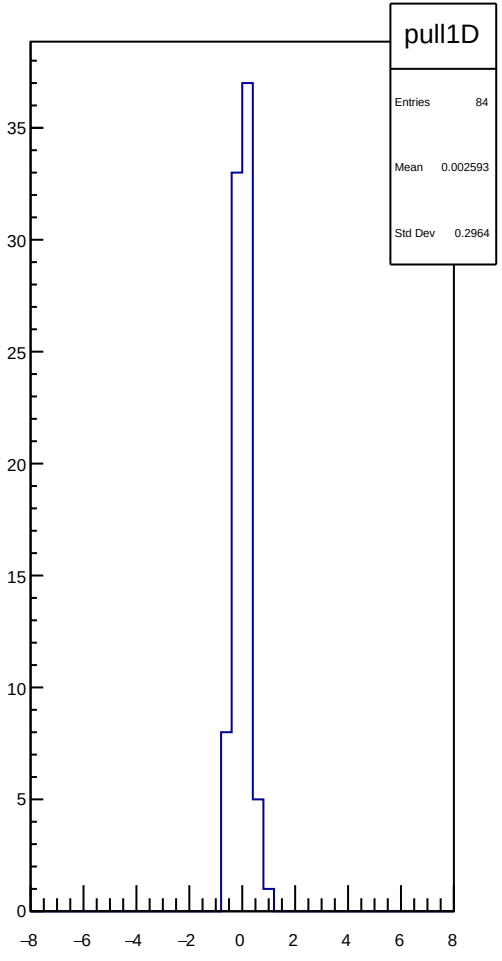

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 27.2 / 83
p0 −15.97 ± 0.345
pull
Entries 84
Mean 1716
Std Dev 1675

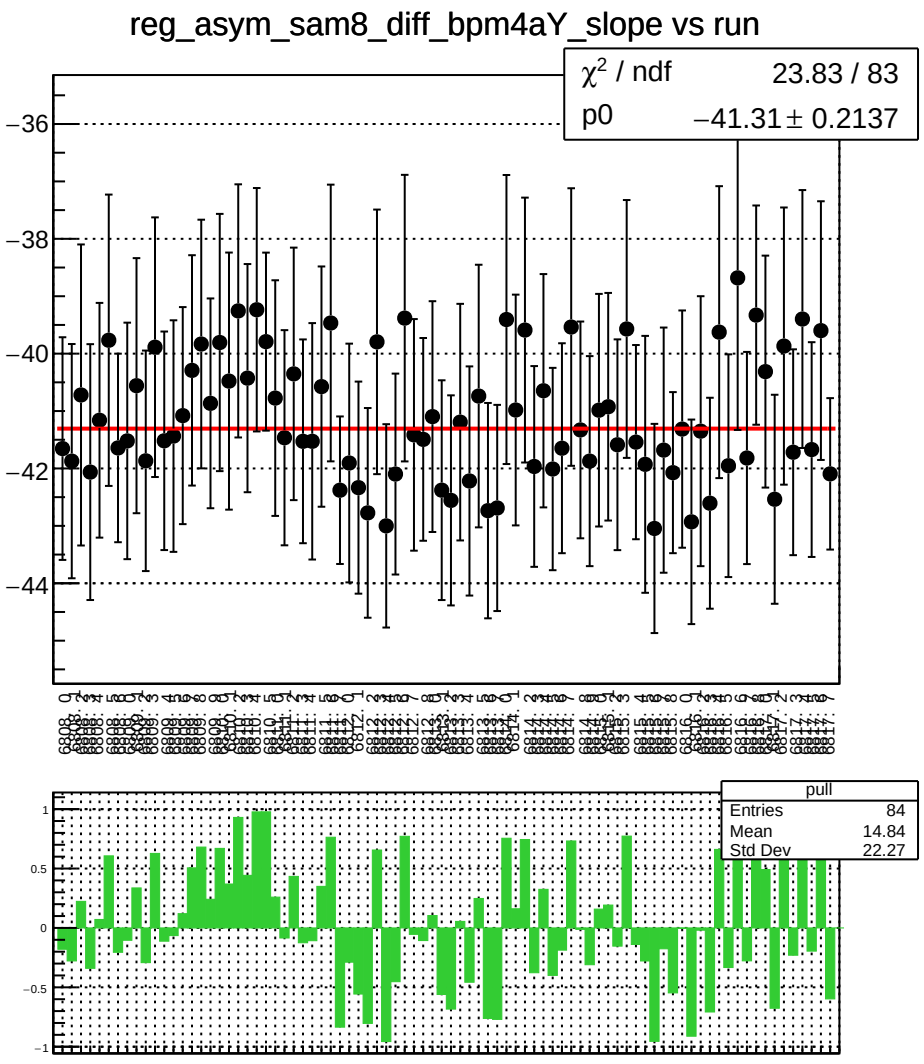

pull1D
Entries 84
Mean −0.001335
Std Dev 0.569

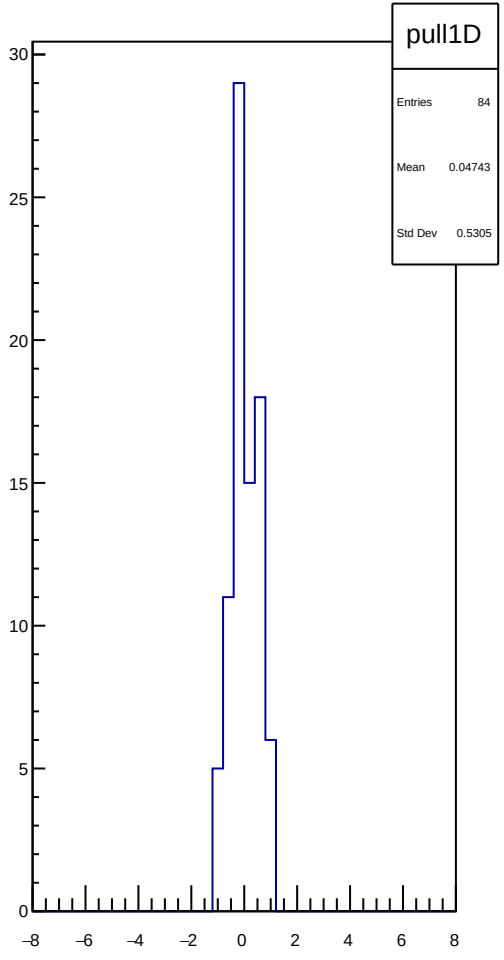

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 9.797 / 83
p0 0.4312 ± 0.01813
pull
Entries 84
Mean −133.3
Std Dev 240.6

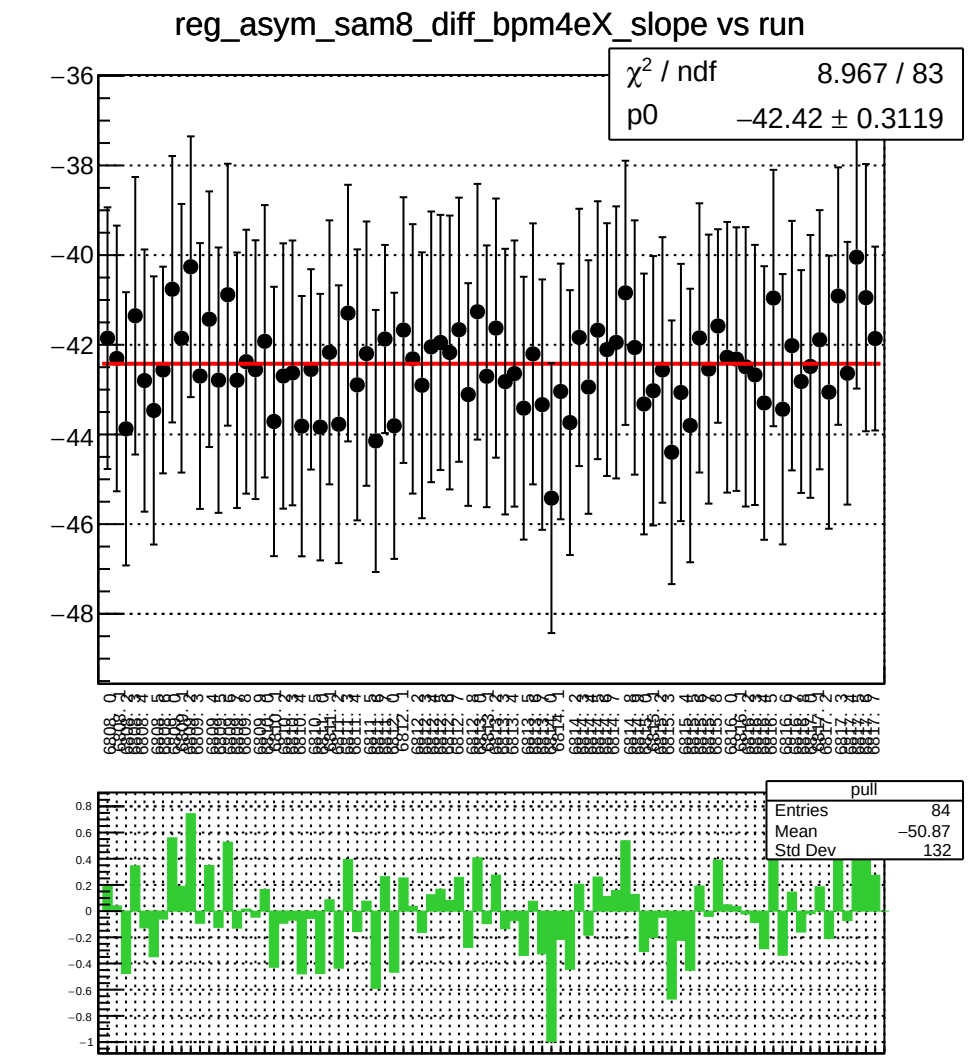

pull1D
Entries 84
Mean 0.0009507
Std Dev 0.3415

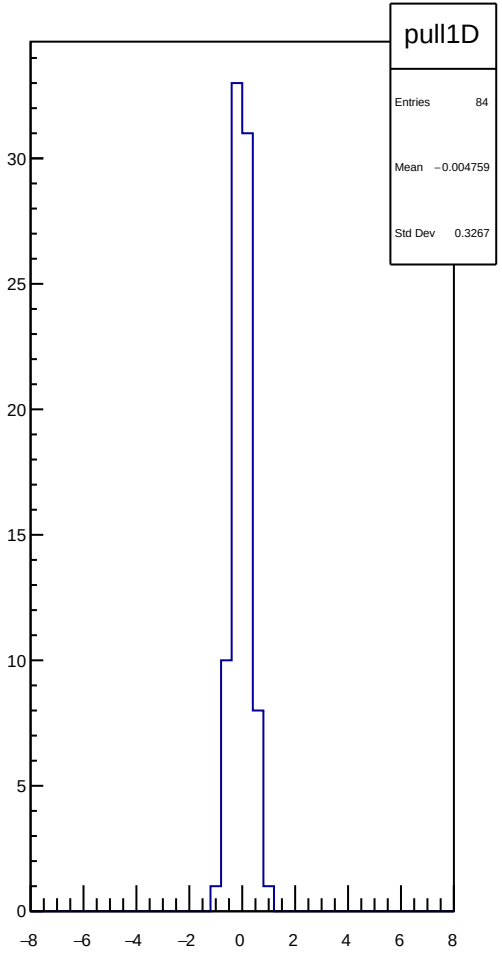

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 7.379 / 83
p0 13.1 ± 0.3335
pull
Entries 84
Mean 42.83
Std Dev 113.4

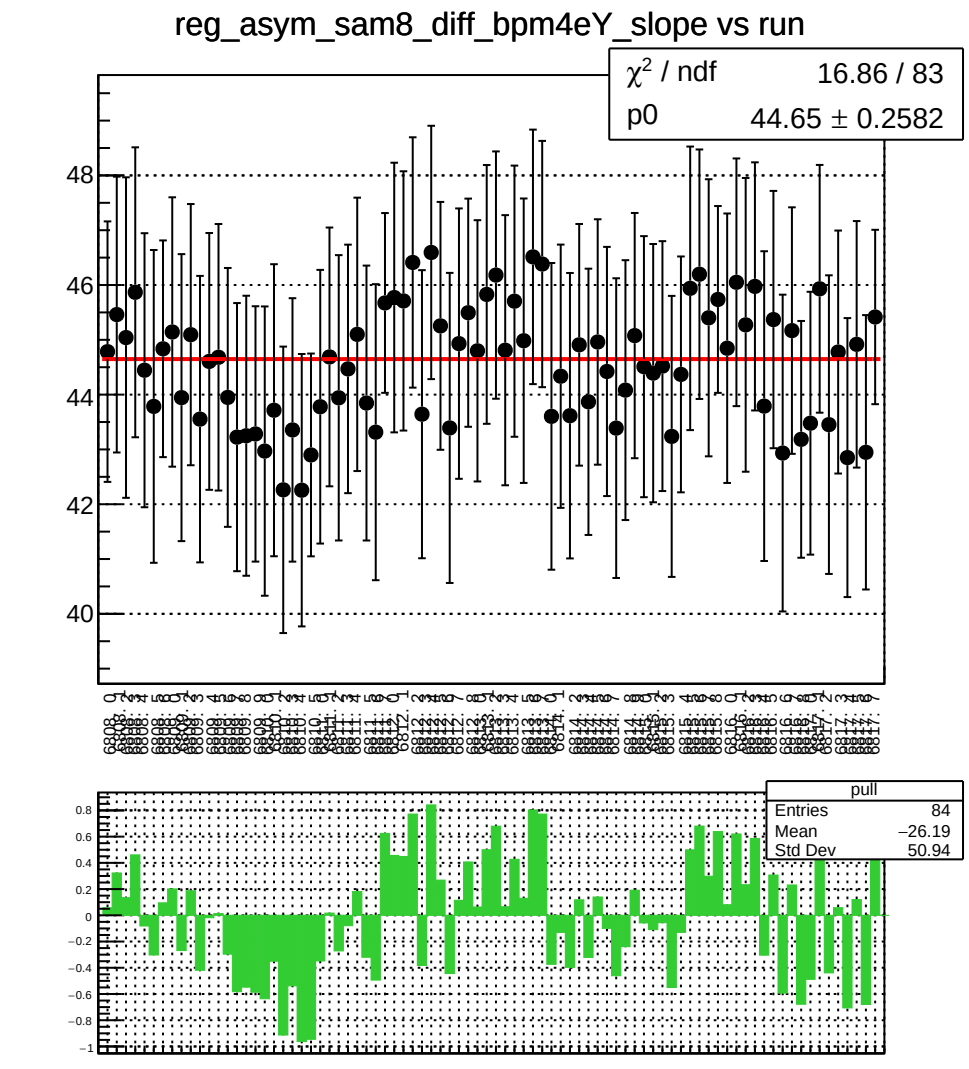

pull1D
Entries 84
Mean 0.002593
Std Dev 0.2964

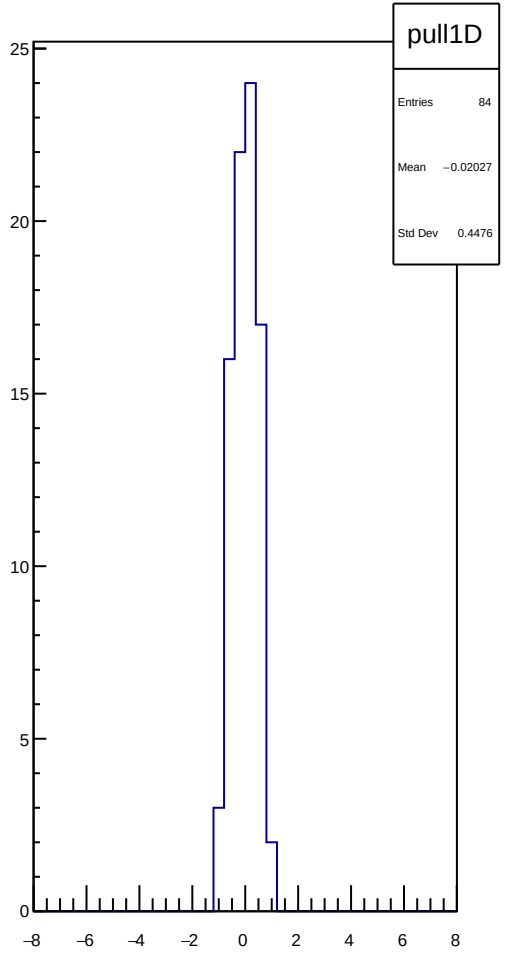

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 23.83 / 83
p0 −41.31 ± 0.2137
−36
−38
−40
−42
−44
pull
Entries 84
Mean 14.84
Std Dev 22.27
1
0.5
0
−0.5
−1

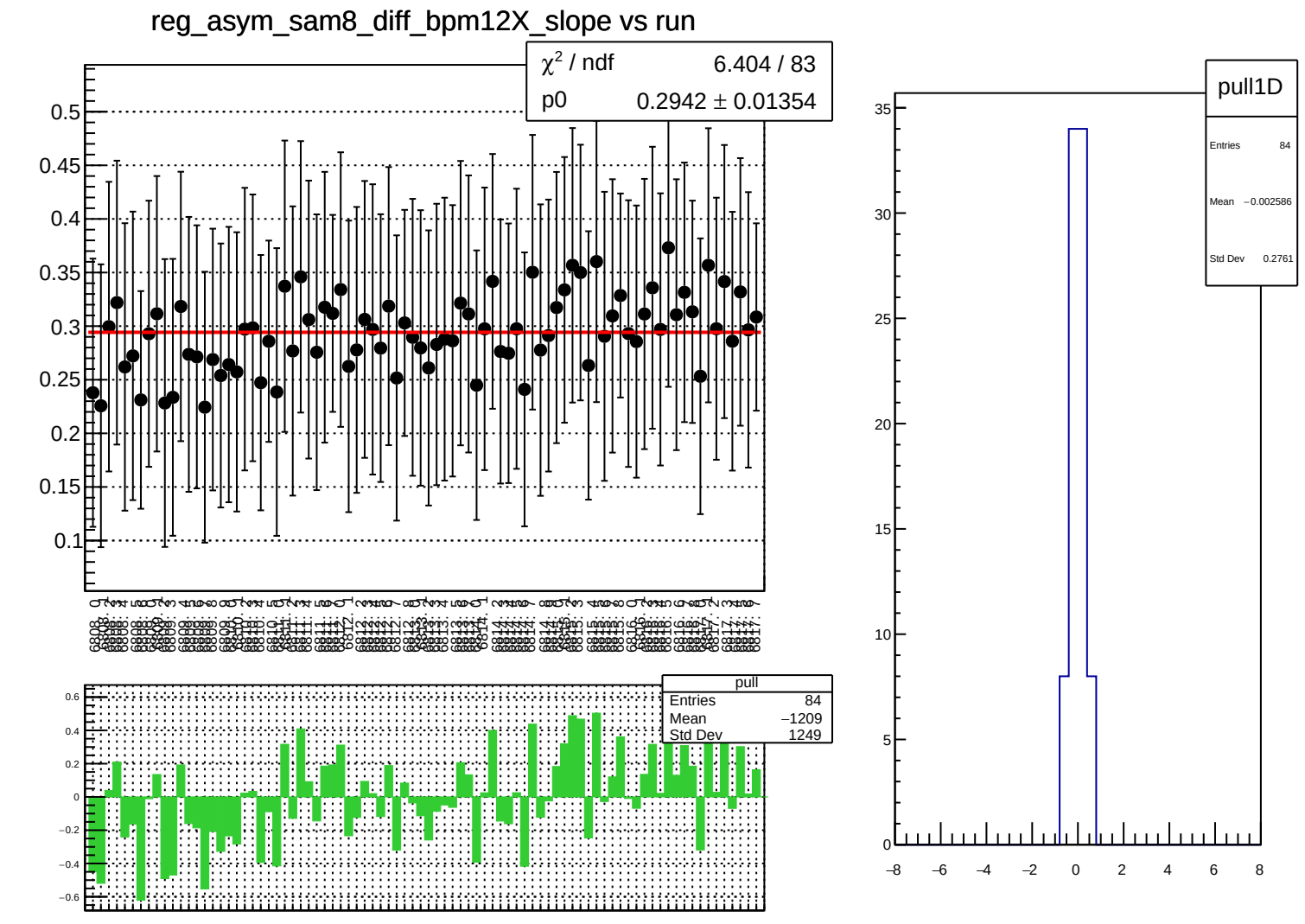

pull1D
Entries 84
Mean 0.04743
Std Dev 0.5305
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

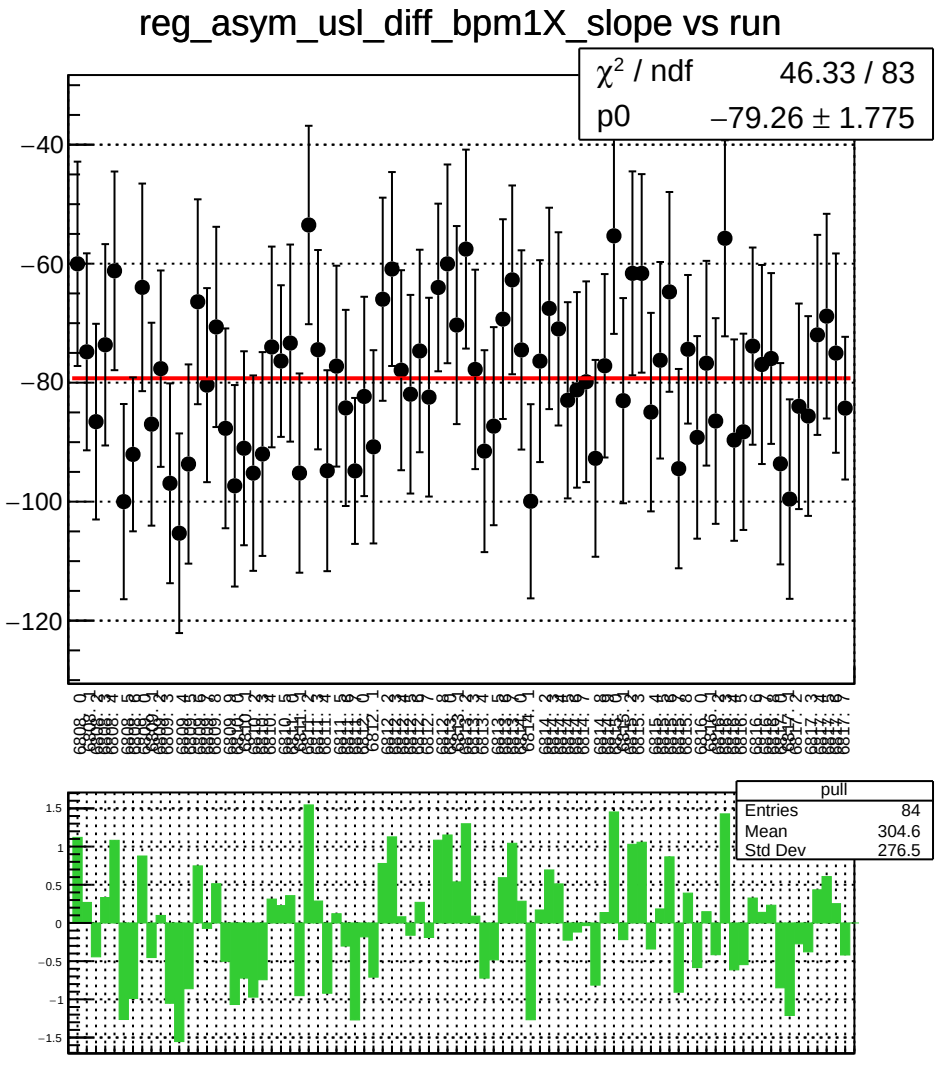

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 8.967 / 83
p0 −42.42 ± 0.3119
pull
Entries 84
Mean −50.87
Std Dev 132

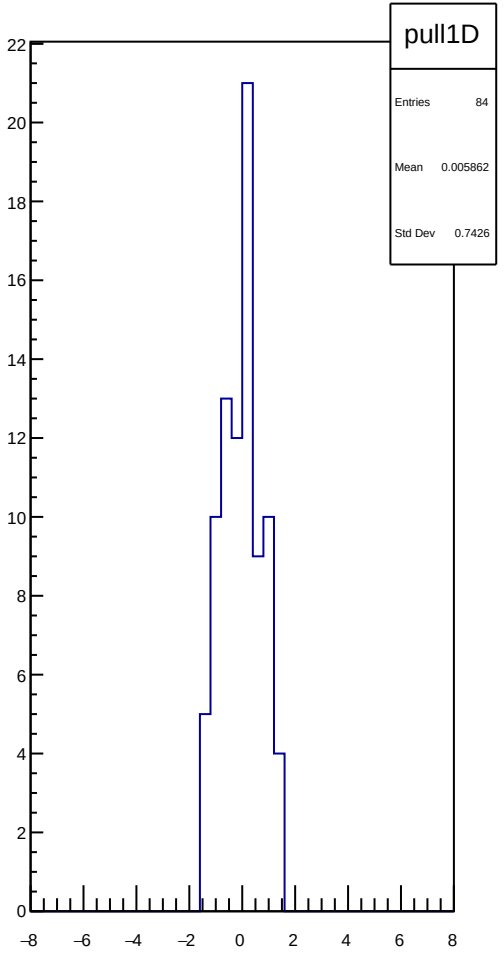

pull1D
Entries 84
Mean −0.004759
Std Dev 0.3267

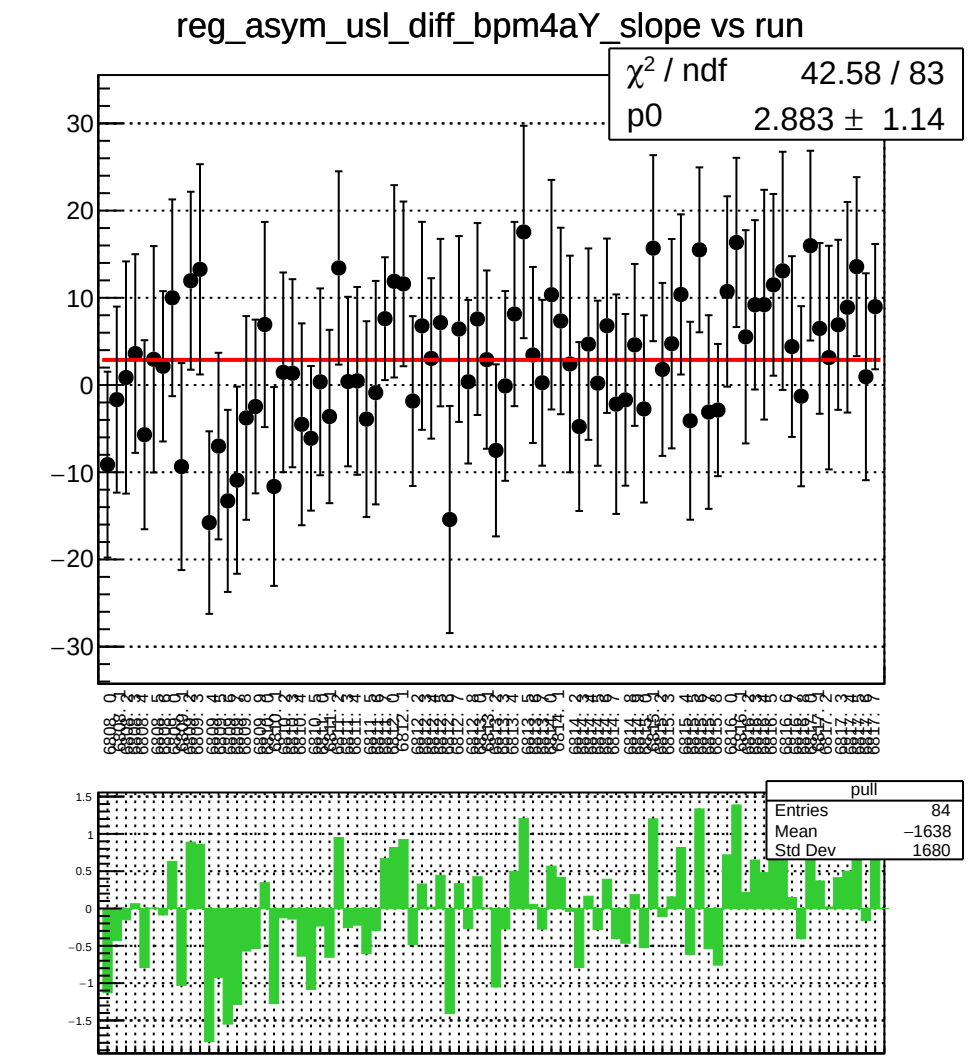

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 16.86 / 83
p0 44.65 ± 0.2582
48
46
44
42
40
pull
Entries 84
Mean −26.19
Std Dev 50.94
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

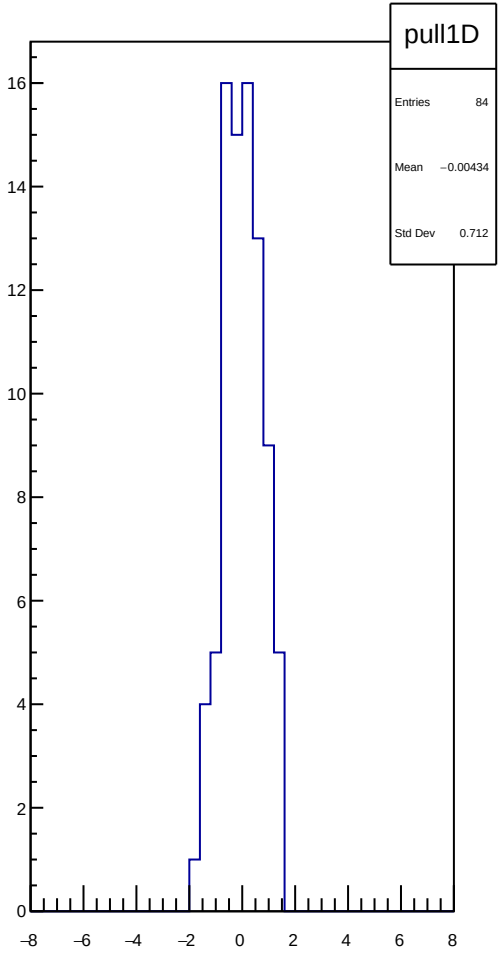

pull1D
Entries 84
Mean −0.02027
Std Dev 0.4476
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

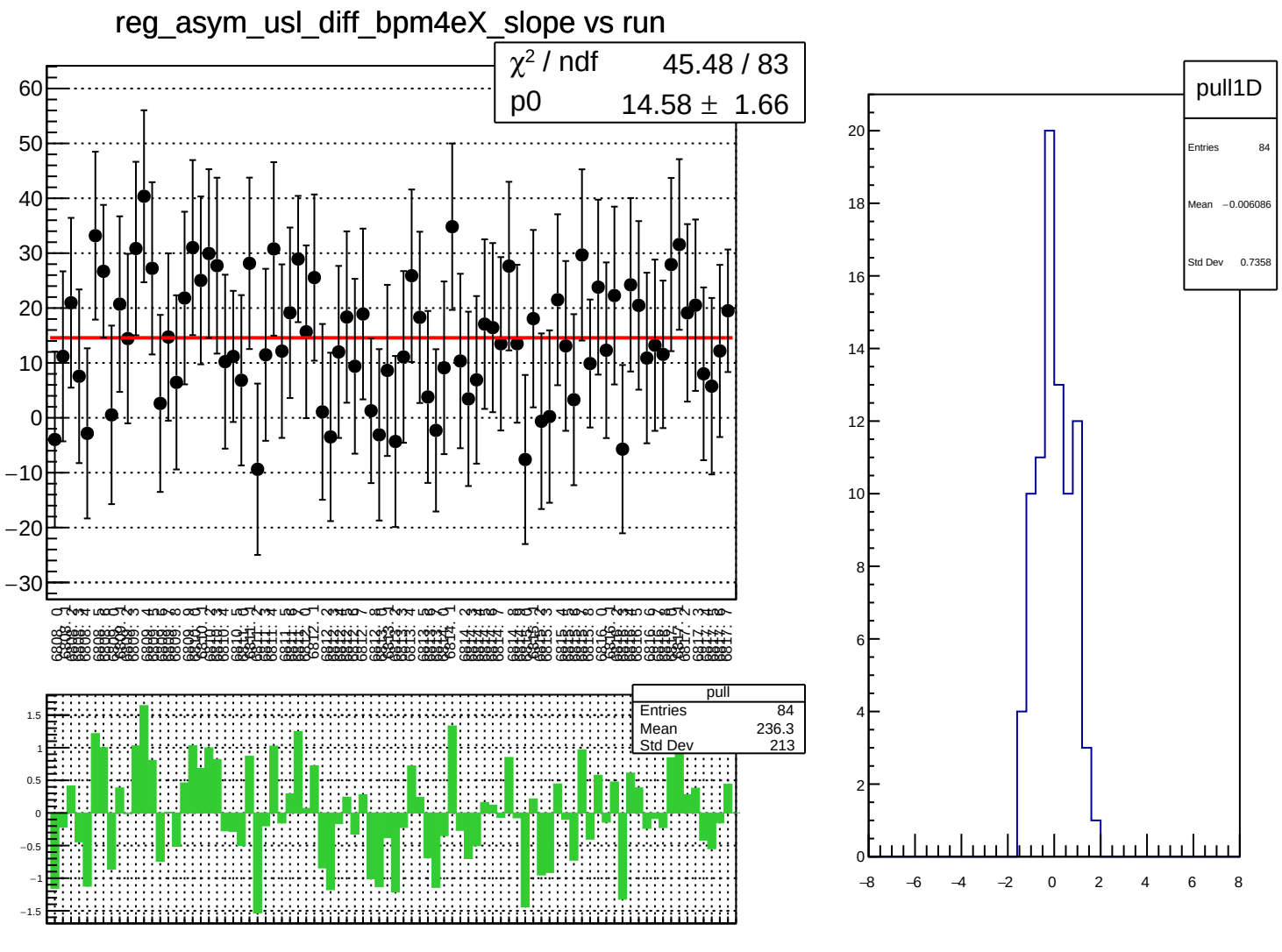

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 6.404 / 83
p0 0.2942 ± 0.01354
pull
Entries 84
Mean −1209
Std Dev 1249
pull1D
Entries 84
Mean −0.002586
Std Dev 0.2761

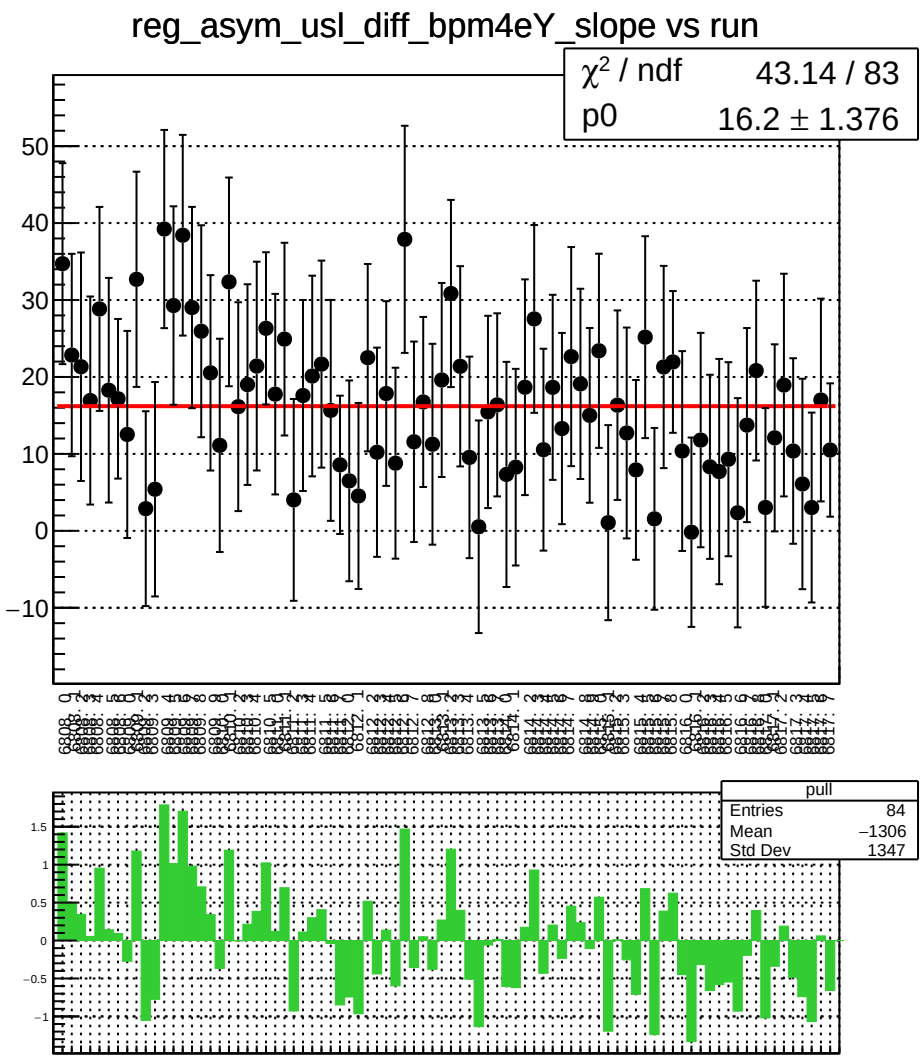

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 46.33 / 83
p0 −79.26 ± 1.775
−40
−60
−80
−100
−120
pull
Entries 84
Mean 304.6
Std Dev 276.5
1.5
1
0.5
0
−0.5
−1
−1.5

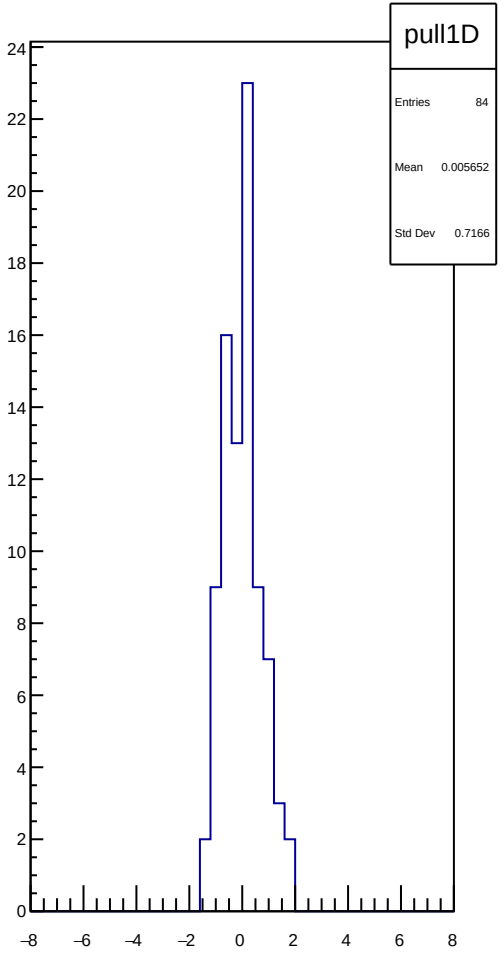

pull1D
Entries 84
Mean 0.005862
Std Dev 0.7426
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

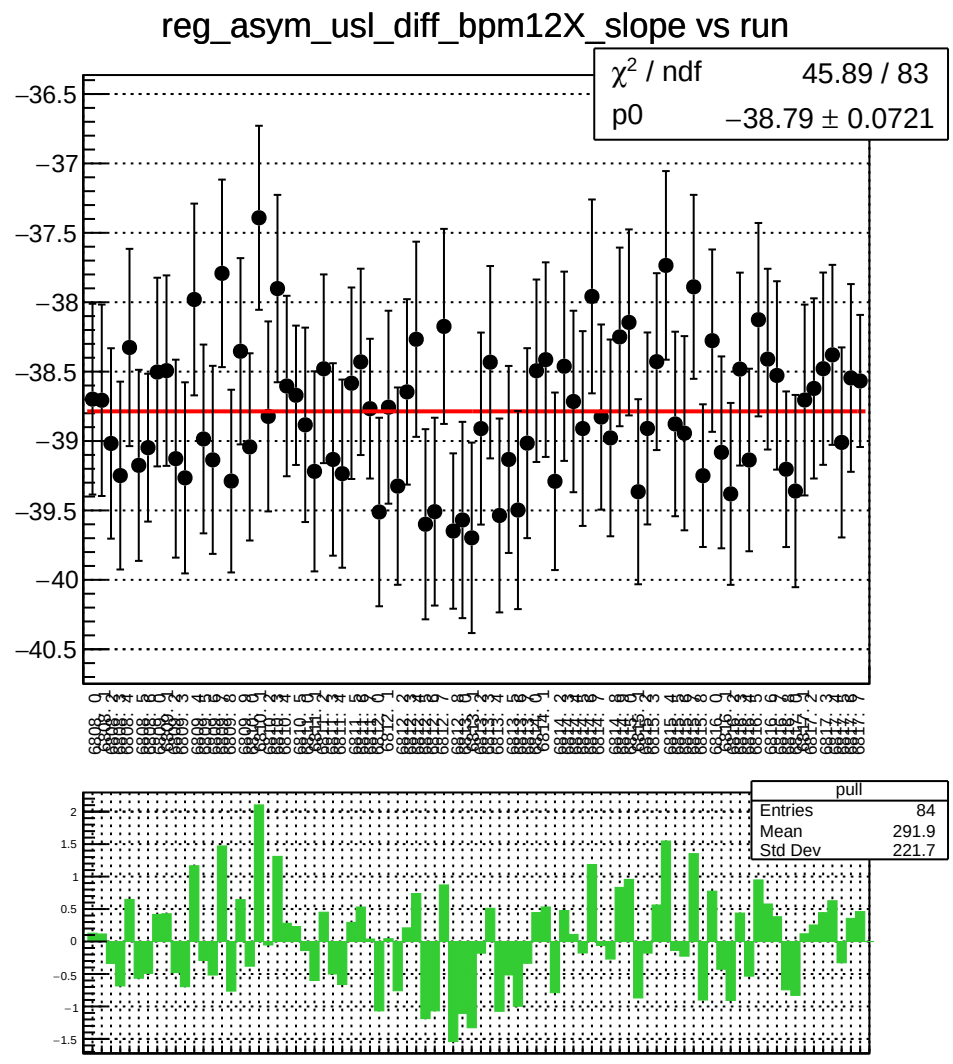

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 42.58 / 83
p0 2.883 ± 1.14
pull
Entries 84
Mean −1638
Std Dev 1680

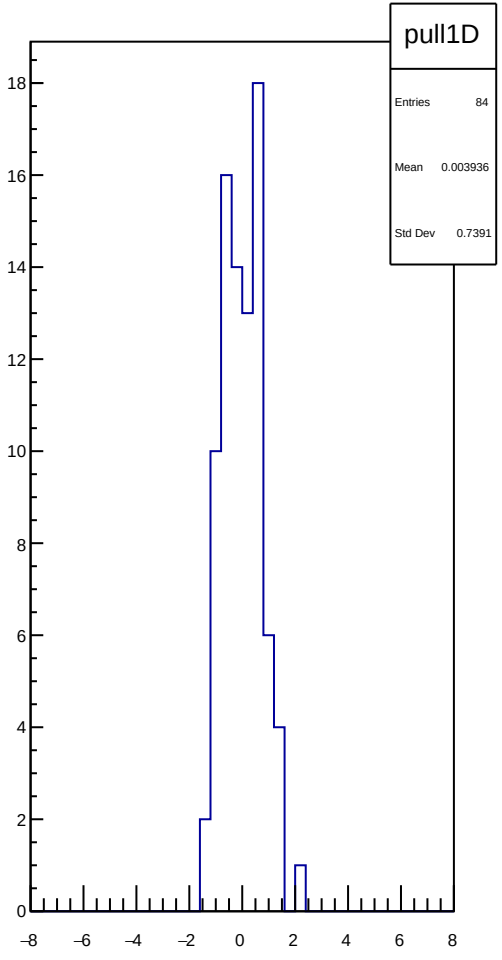

pull1D
Entries 84
Mean −0.00434
Std Dev 0.712

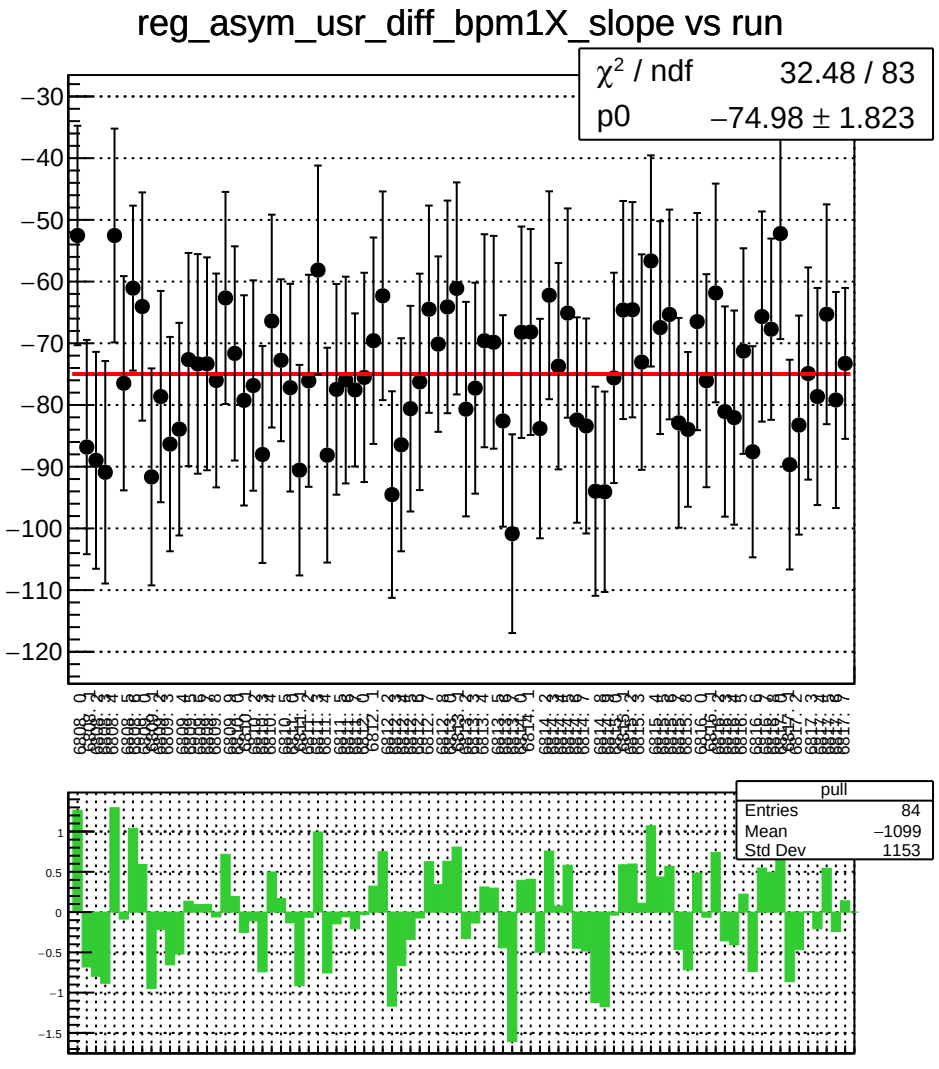

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 45.48 / 83
p0 14.58 ± 1.66
pull
Entries 84
Mean 236.3
Std Dev 213
pull1D
Entries 84
Mean −0.006086
Std Dev 0.7358

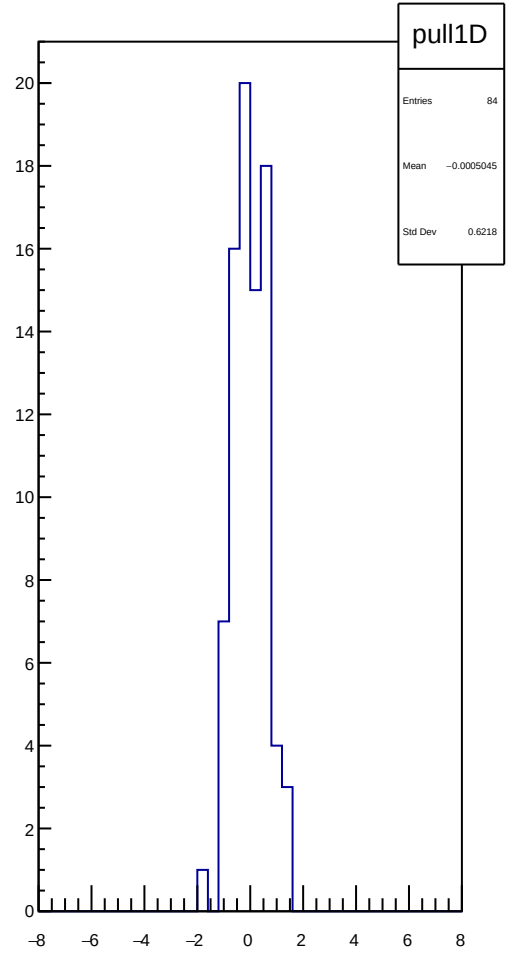

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 43.14 / 83
p0 16.2 ± 1.376
pull
Entries 84
Mean −1306
Std Dev 1347

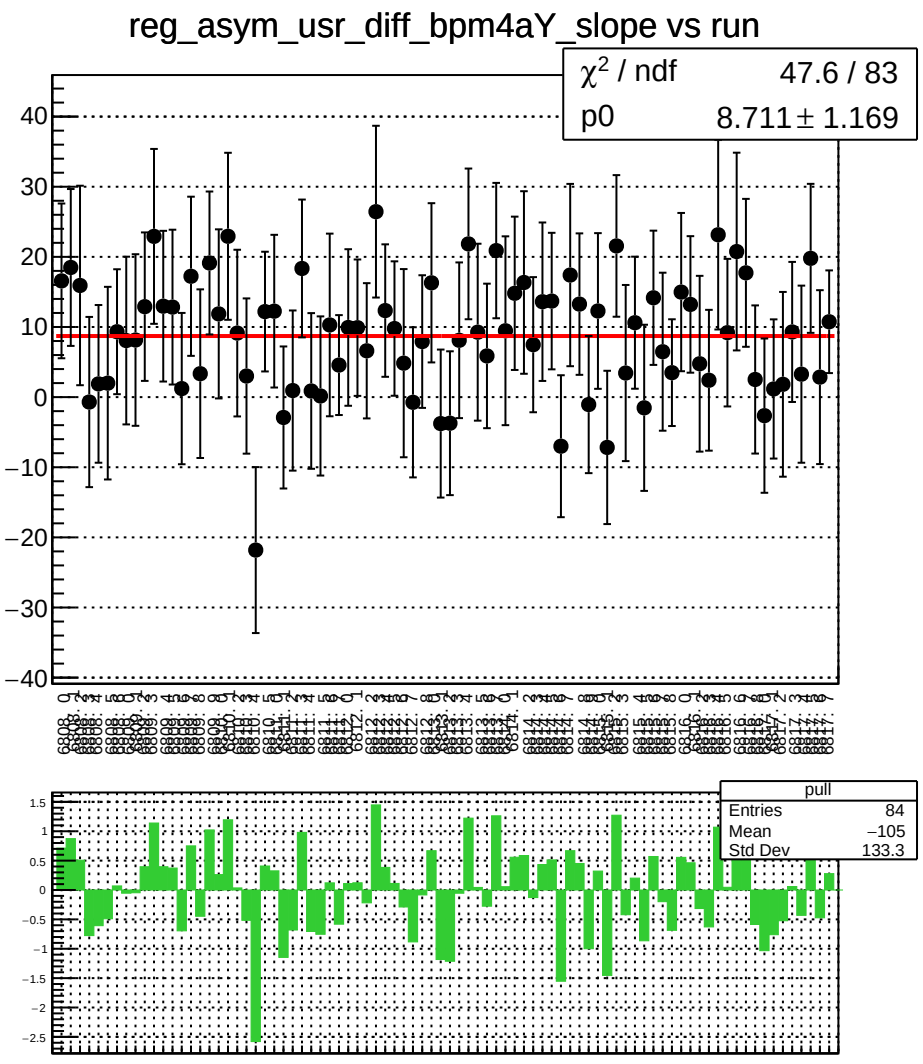

pull1D
Entries 84
Mean 0.005652
Std Dev 0.7166

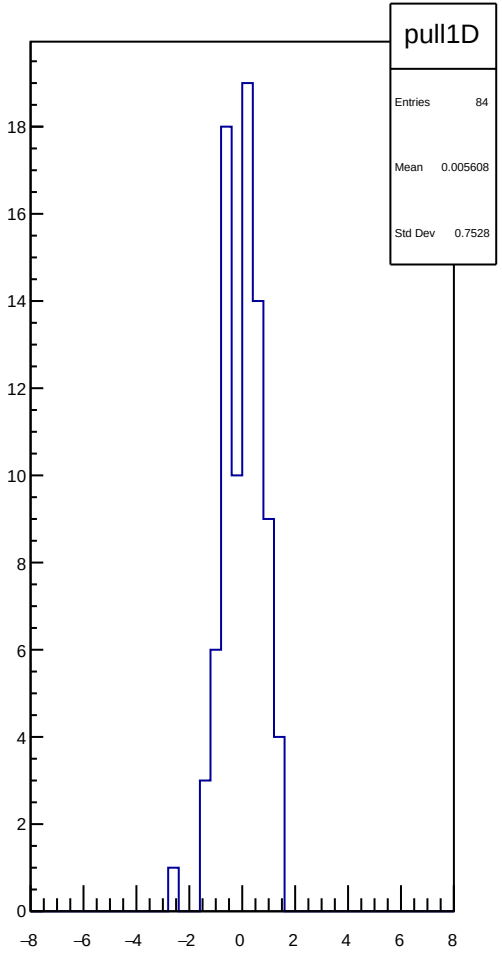

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 45.89 / 83
p0 −38.79 ± 0.0721
pull
Entries 84
Mean 291.9
Std Dev 221.7

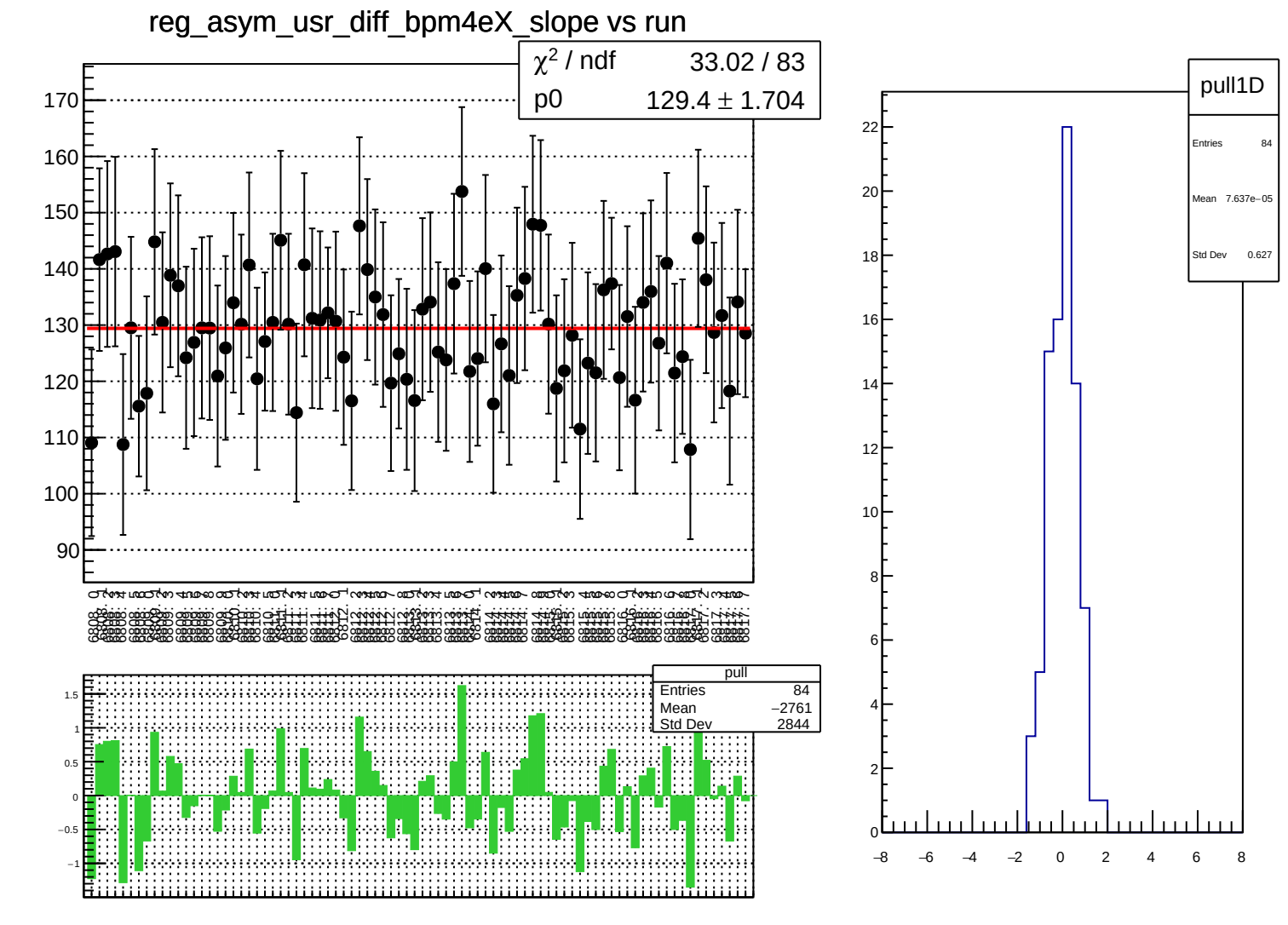

pull1D
Entries 84
Mean 0.003936
Std Dev 0.7391

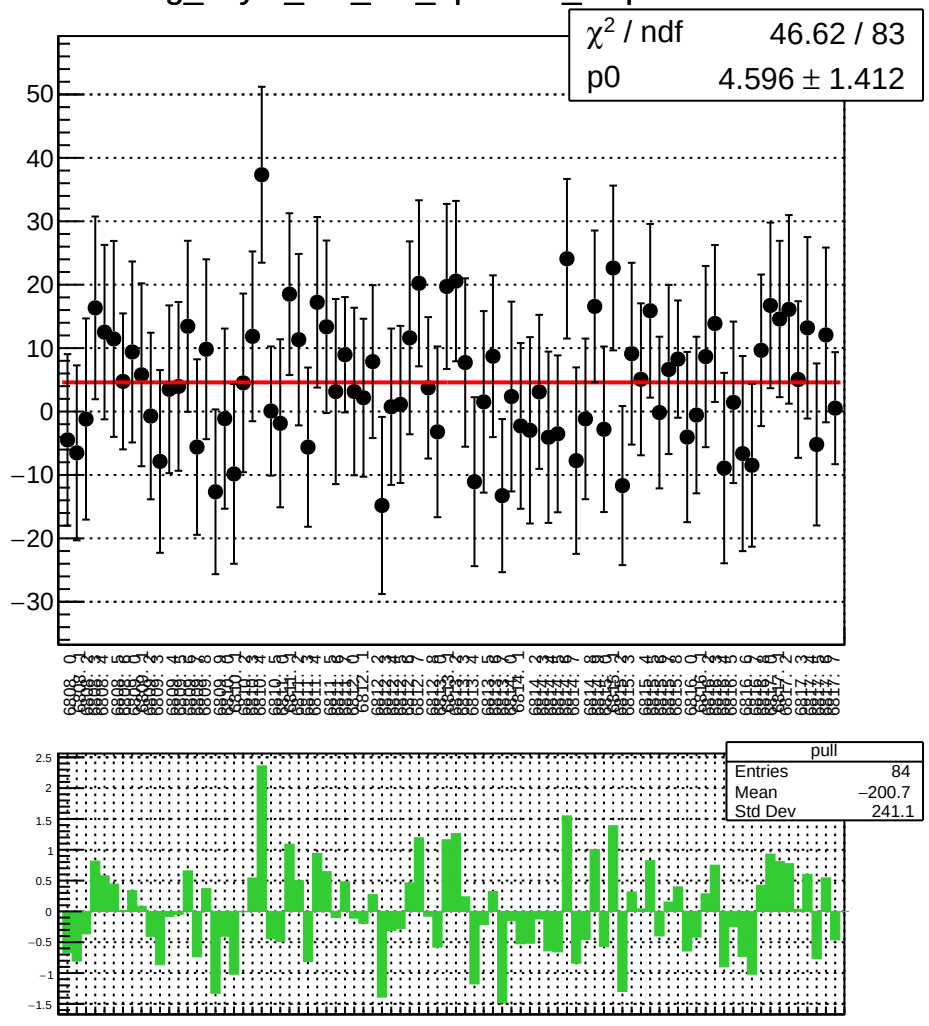

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 32.48 / 83
p0 −74.98 ± 1.823
pull
Entries 84
Mean −1099
Std Dev 1153

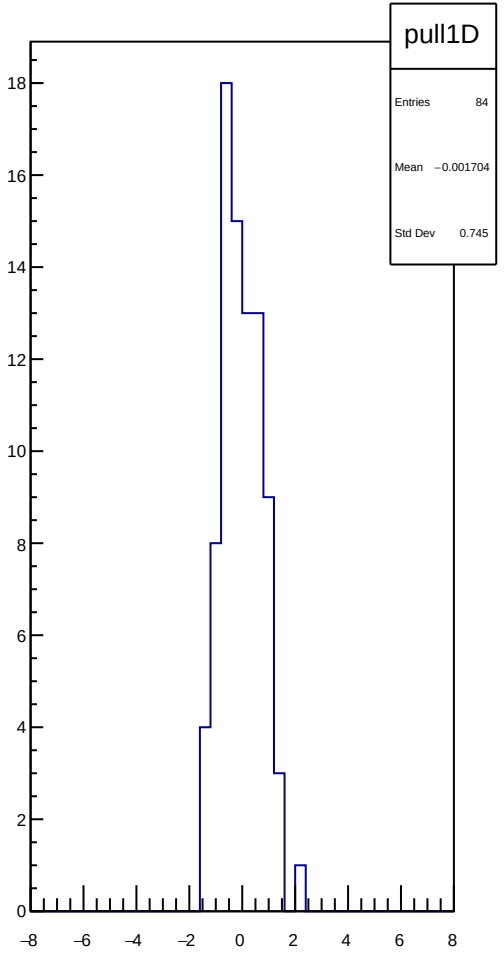

pull1D
Entries 84
Mean −0.0005045
Std Dev 0.6218

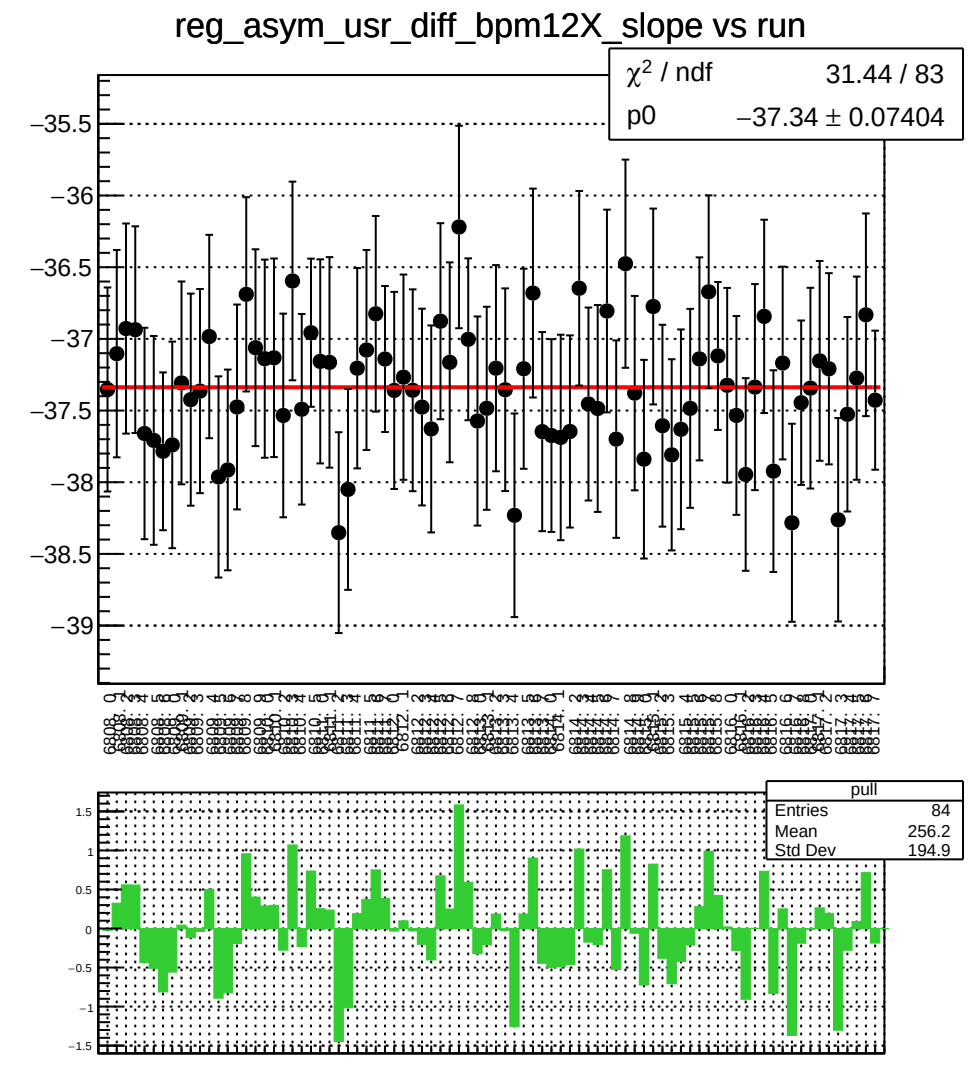

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 47.6 / 83
p0 8.711 ± 1.169
pull
Entries 84
Mean −105
Std Dev 133.3

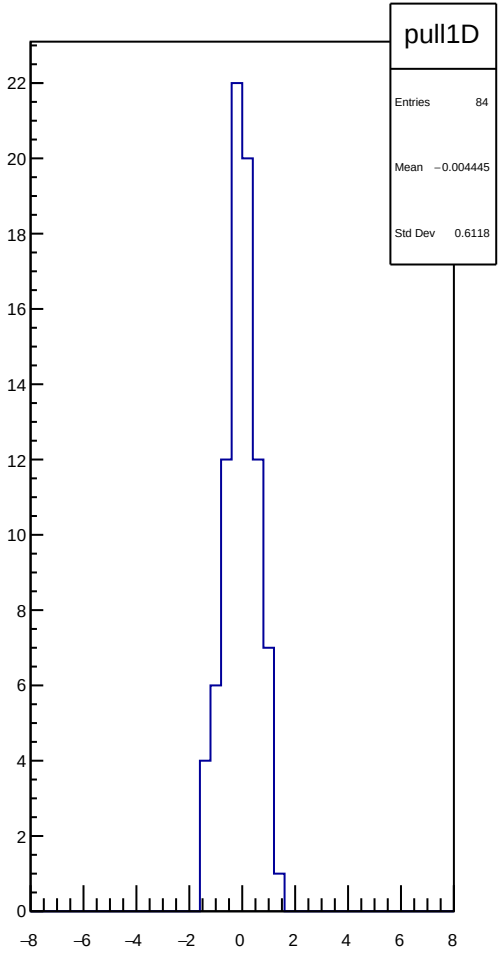

pull1D
Entries 84
Mean 0.005608
Std Dev 0.7528

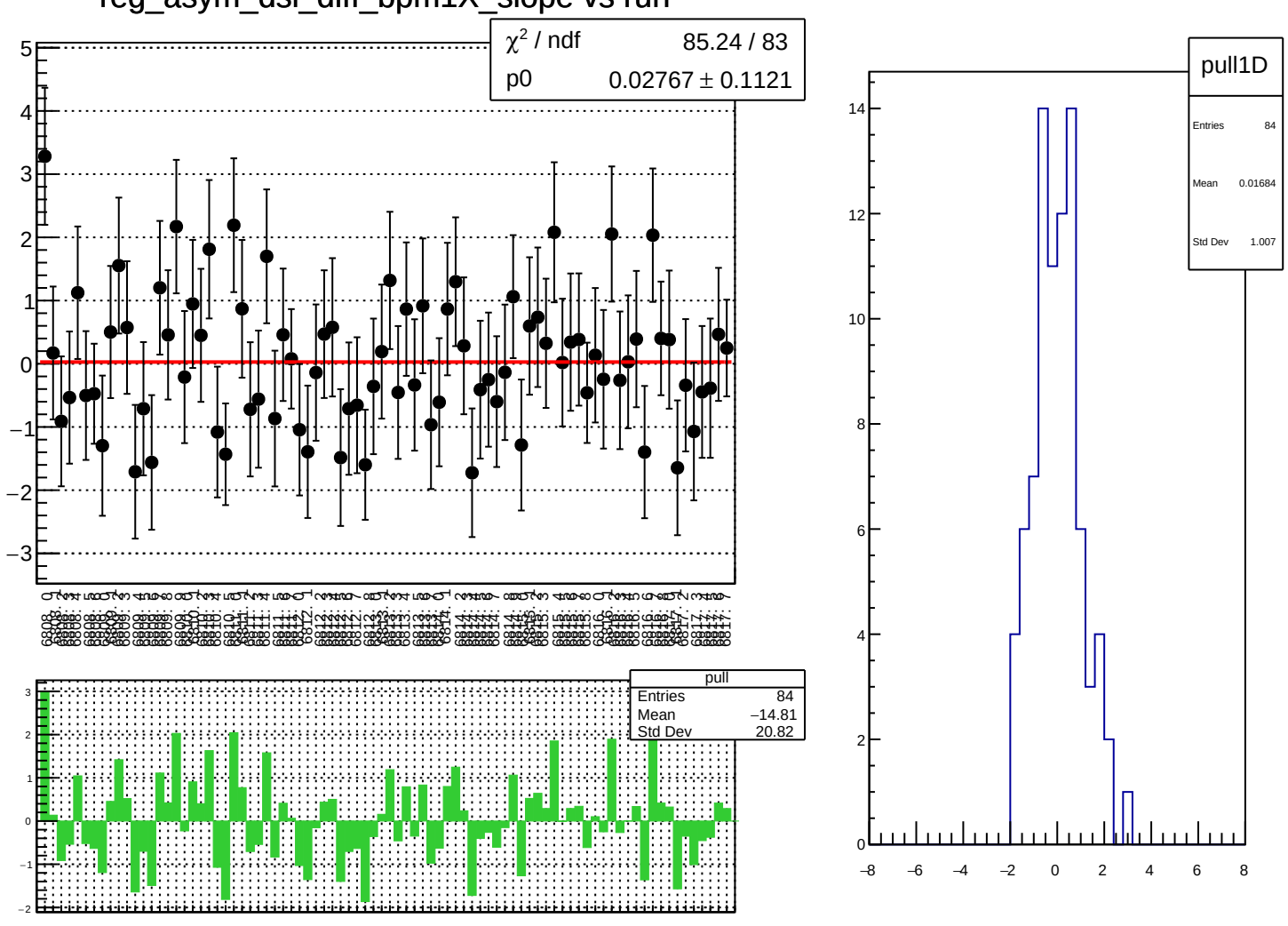

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 33.02 / 83
p0 129.4 ± 1.704
pull
Entries 84
Mean −2761
Std Dev 2844
pull1D
Entries 84
Mean 7.637e−05
Std Dev 0.627

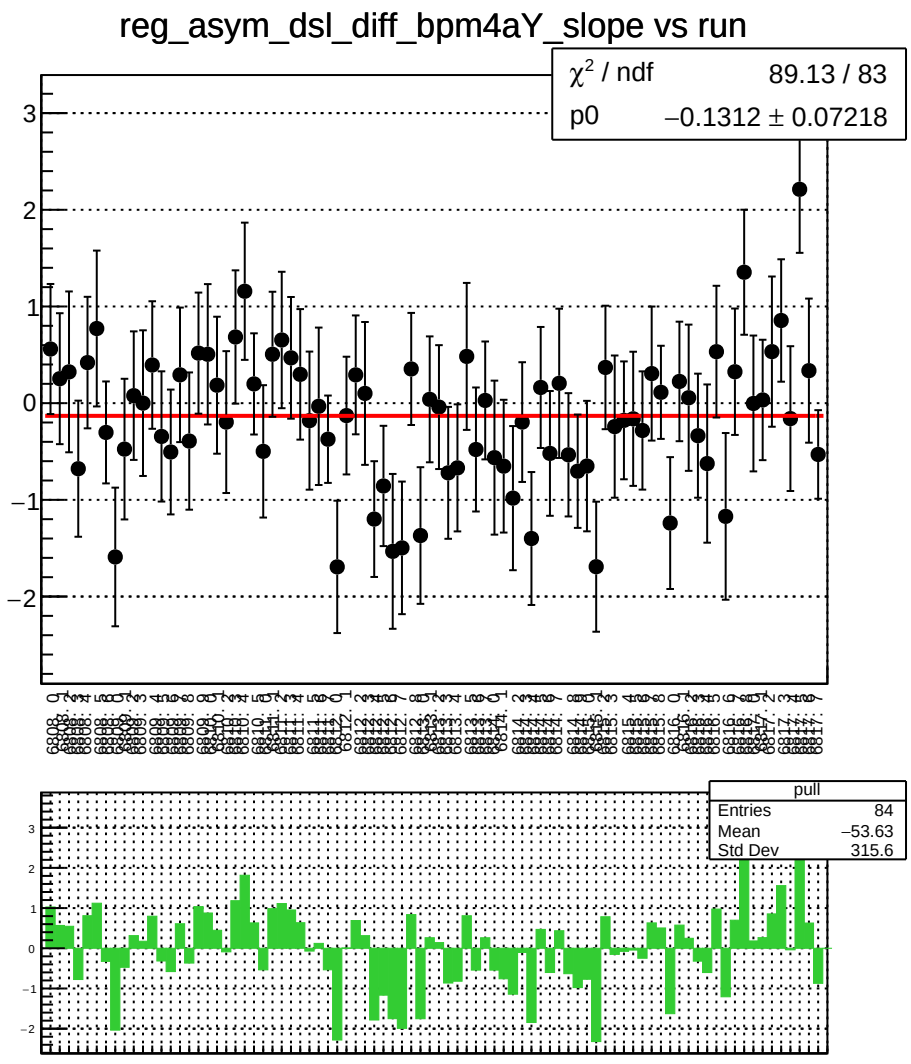

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 46.62 / 83
p0 4.596 ± 1.412
pull
Entries 84
Mean −200.7
Std Dev 241.1

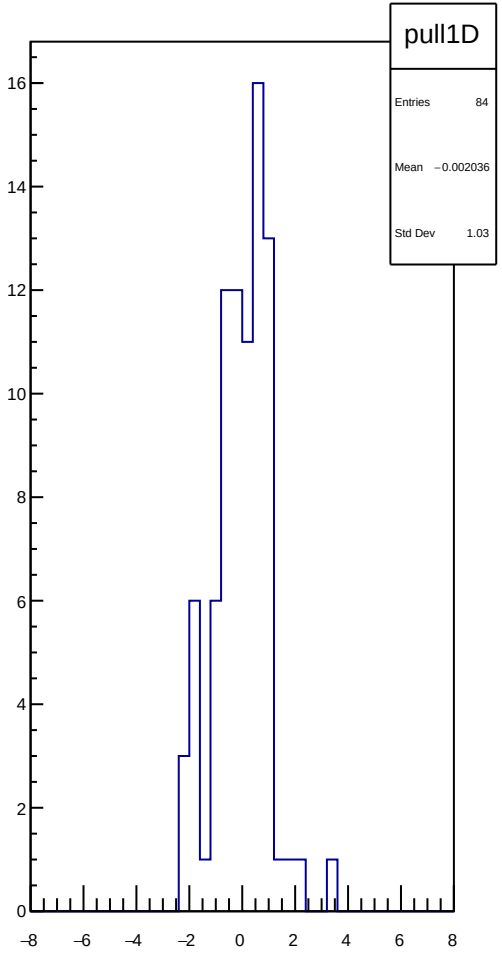

pull1D
Entries 84
Mean −0.001704
Std Dev 0.745

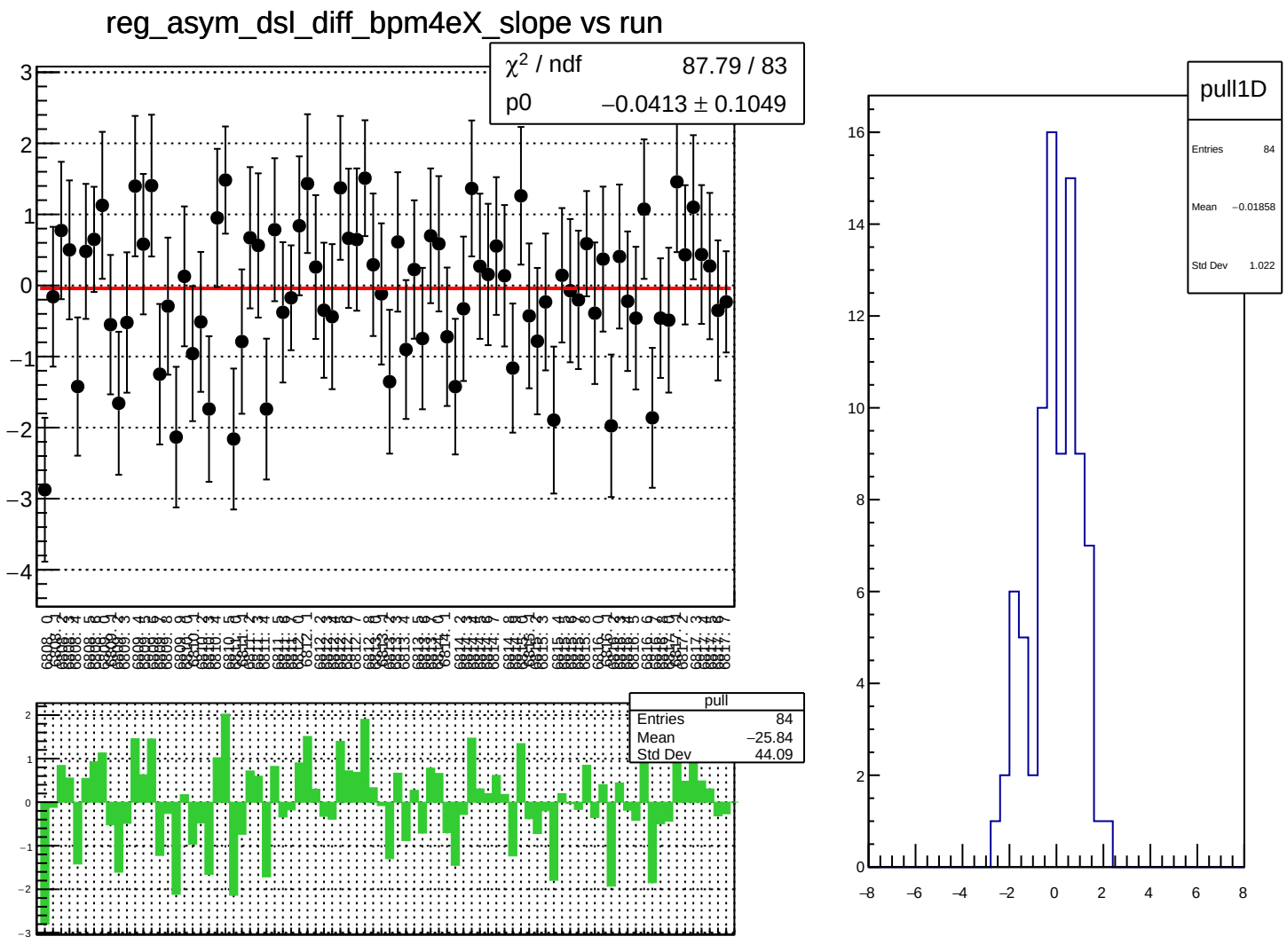

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 31.44 / 83
p0 −37.34 ± 0.07404
pull
Entries 84
Mean 256.2
Std Dev 194.9

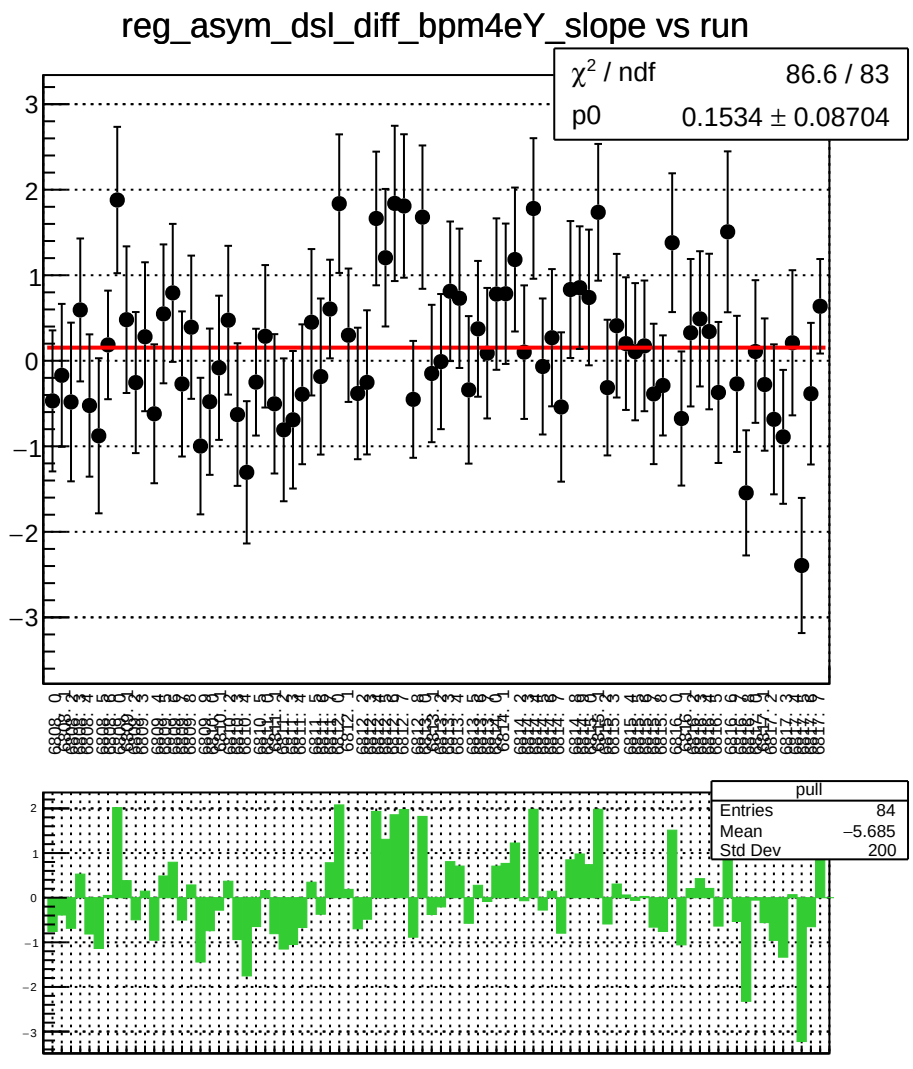

pull1D
Entries 84
Mean −0.004445
Std Dev 0.6118

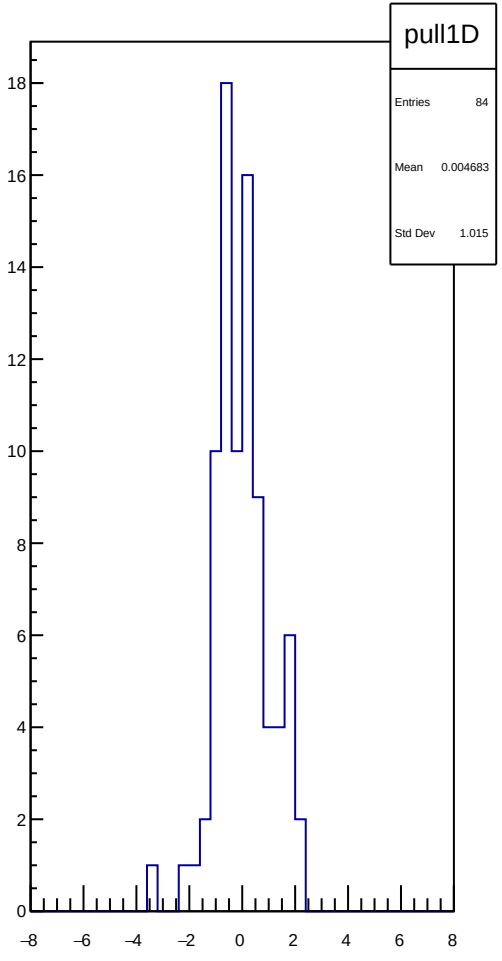

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 85.24 / 83
p0 0.02767 ± 0.1121
pull
Entries 84
Mean −14.81
Std Dev 20.82
pull1D
Entries 84
Mean 0.01684
Std Dev 1.007

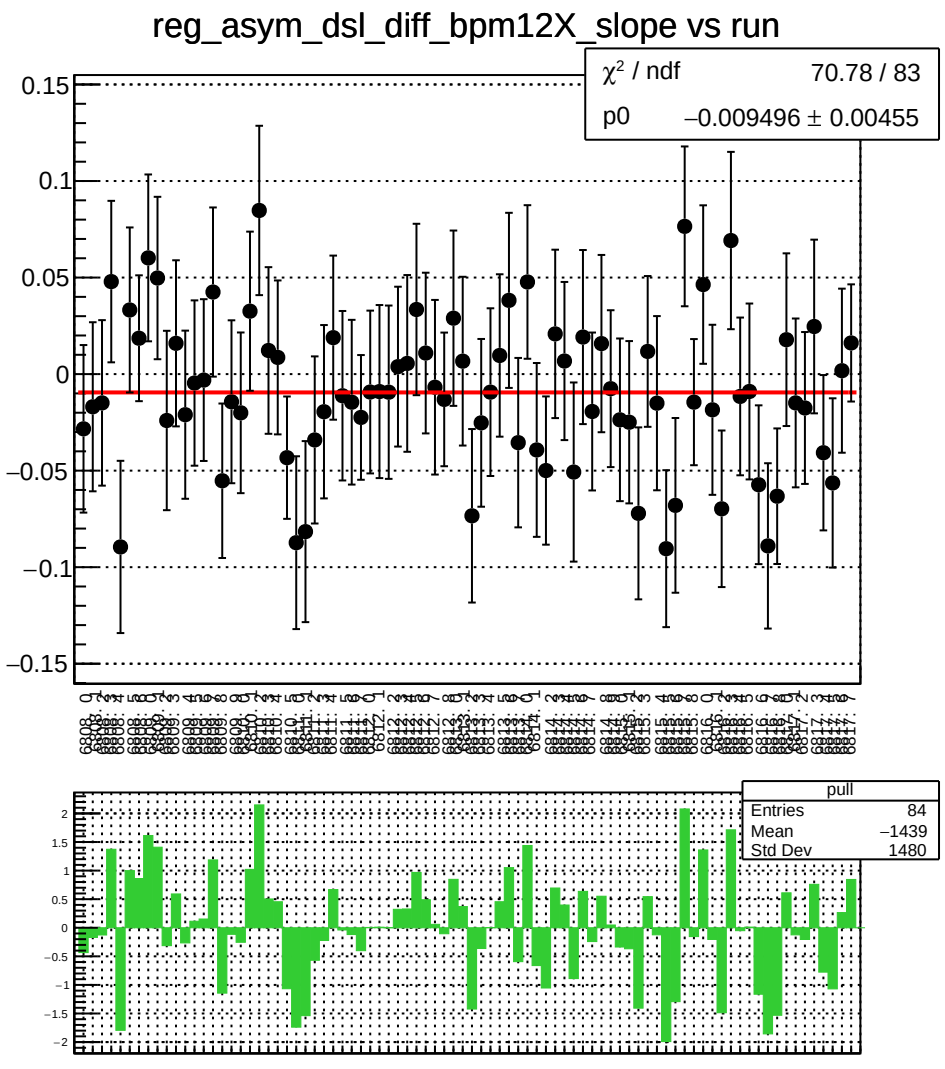

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 89.13 / 83
p0 −0.1312 ± 0.07218
pull
Entries 84
Mean −53.63
Std Dev 315.6

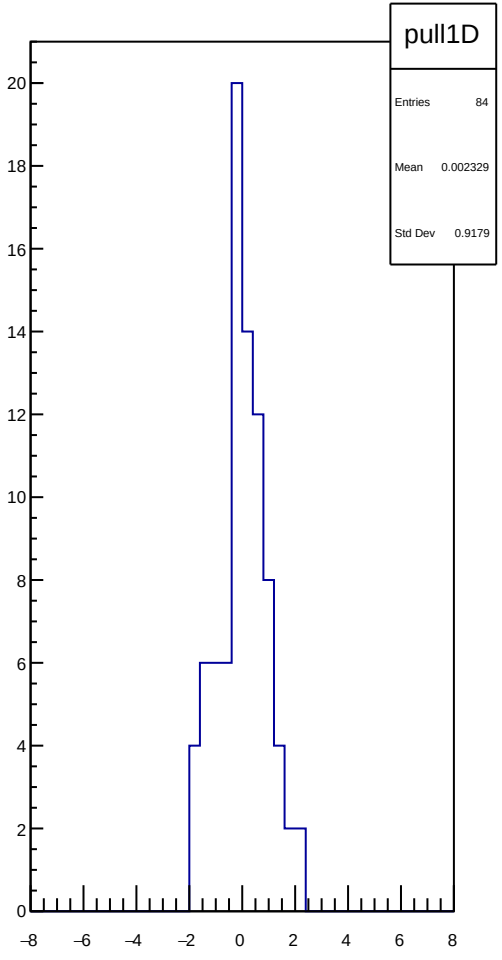

pull1D
Entries 84
Mean −0.002036
Std Dev 1.03

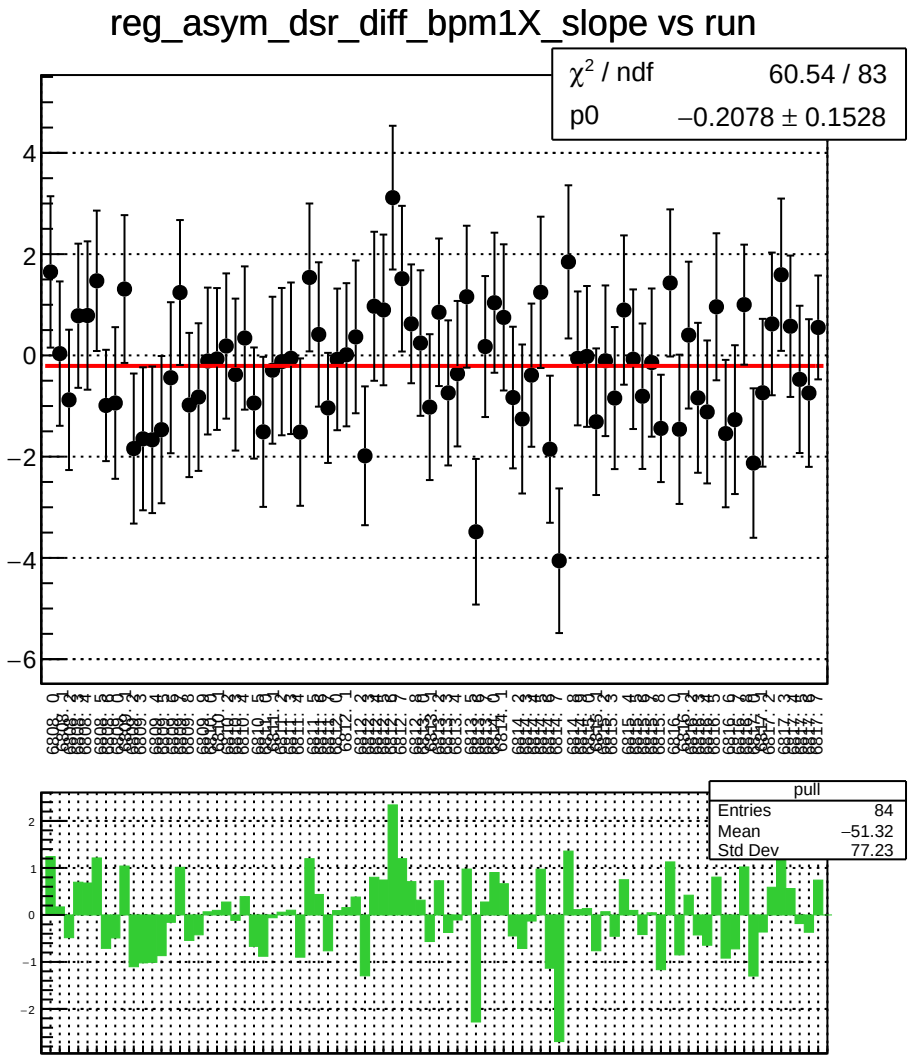

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 87.79 / 83
p0 −0.0413 ± 0.1049
pull
Entries 84
Mean −25.84
Std Dev 44.09
pull1D
Entries 84
Mean −0.01858
Std Dev 1.022

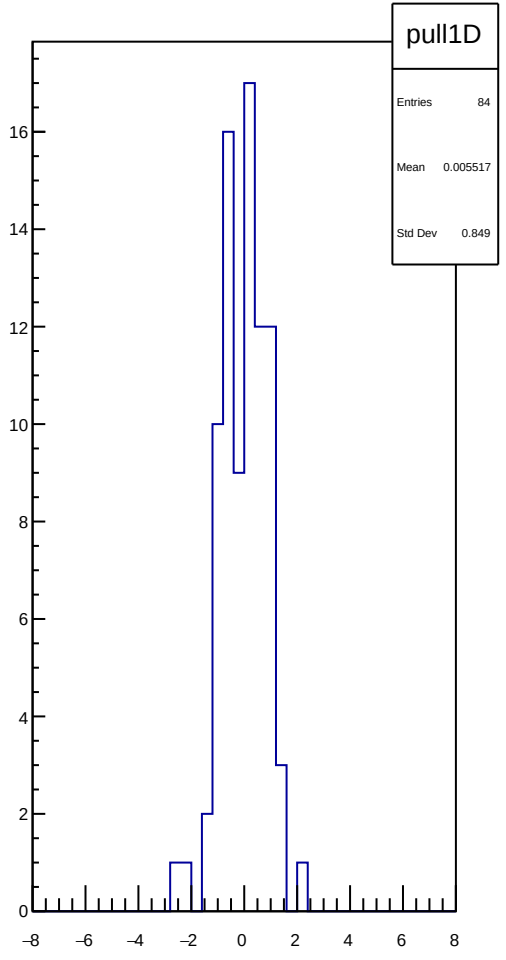

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 86.6 / 83
p0 0.1534 ± 0.08704
pull
Entries 84
Mean −5.685
Std Dev 200

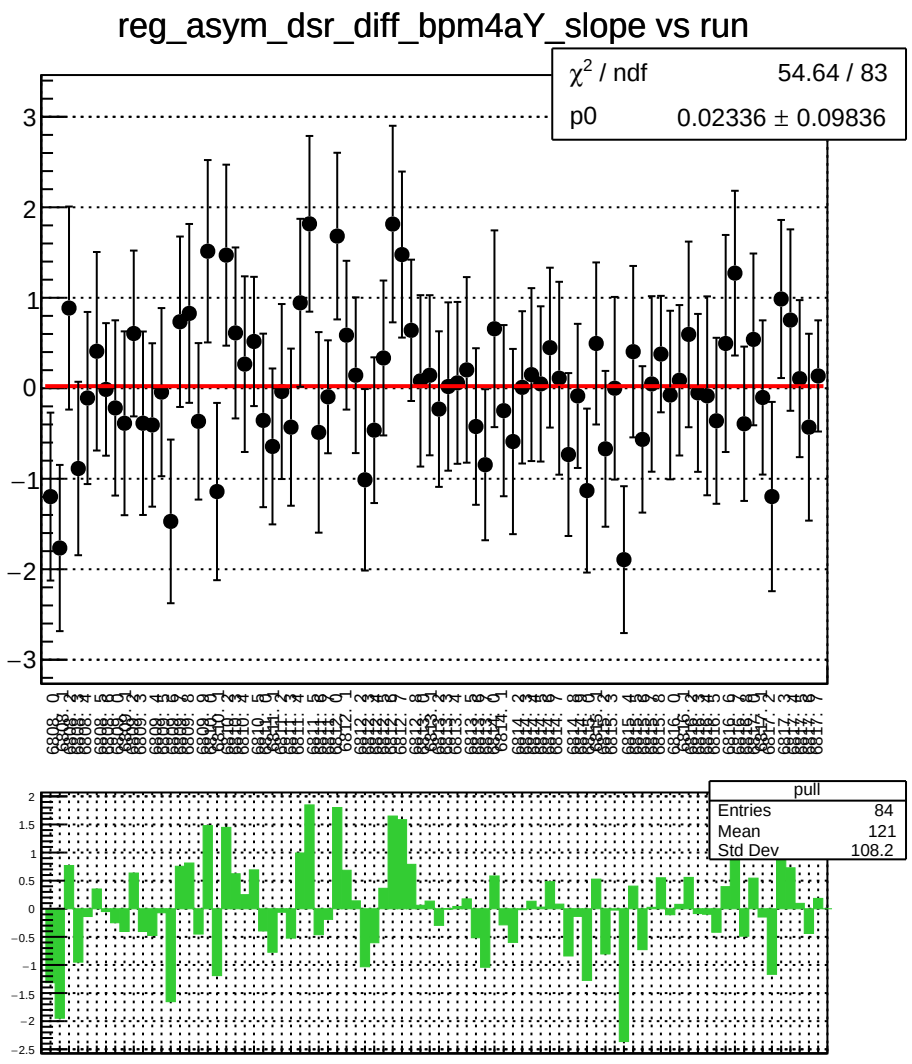

pull1D
Entries 84
Mean 0.004683
Std Dev 1.015

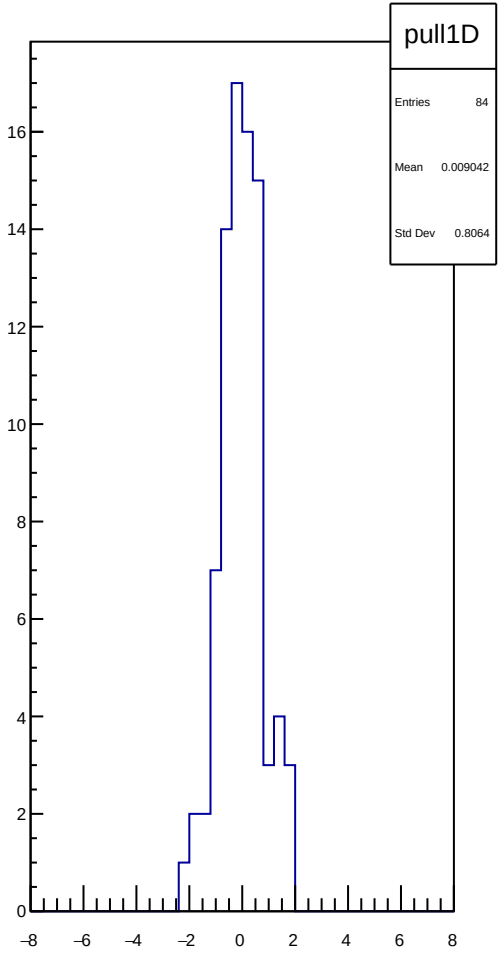

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 70.78 / 83
p0 −0.009496 ± 0.00455
pull
Entries 84
Mean −1439
Std Dev 1480

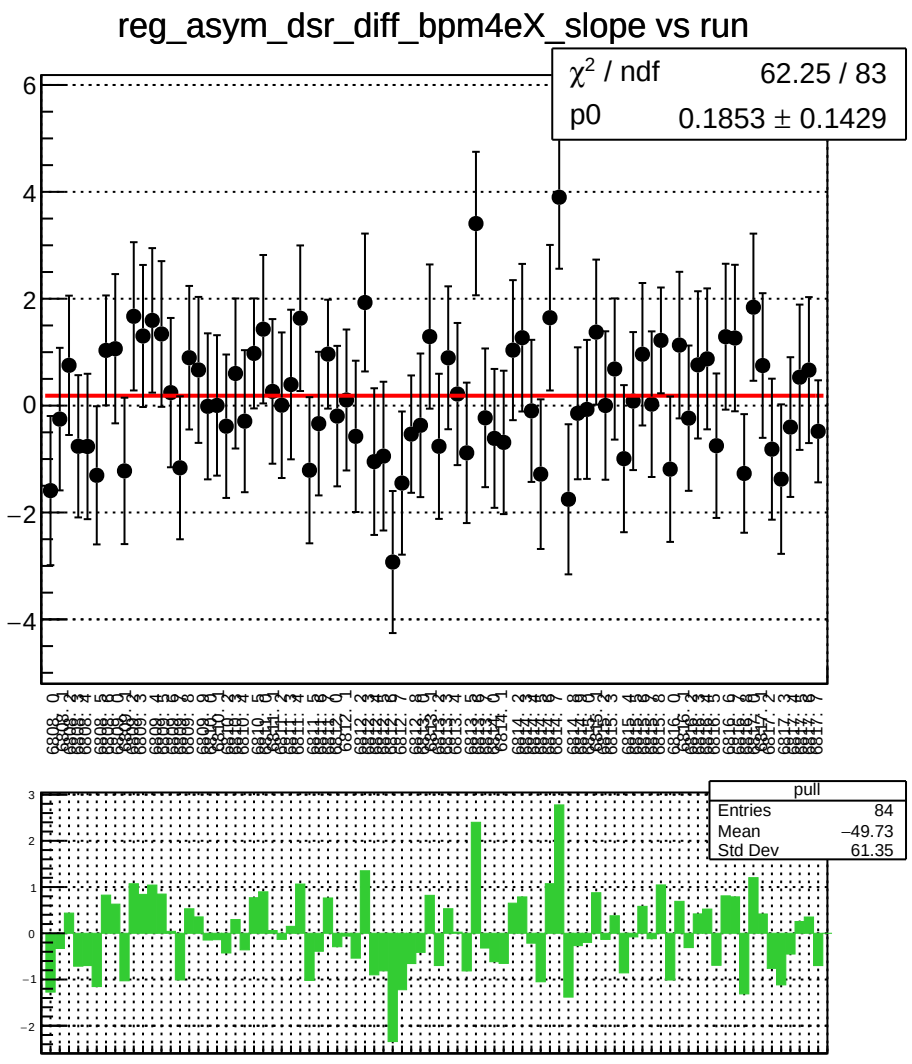

pull1D
Entries 84
Mean 0.002329
Std Dev 0.9179

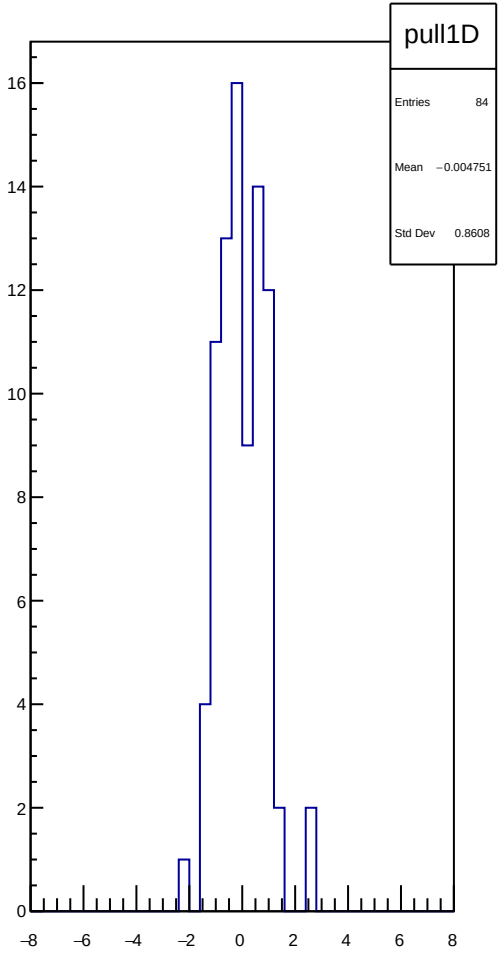

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 60.54 / 83
p0 −0.2078 ± 0.1528
pull
Entries 84
Mean −51.32
Std Dev 77.23

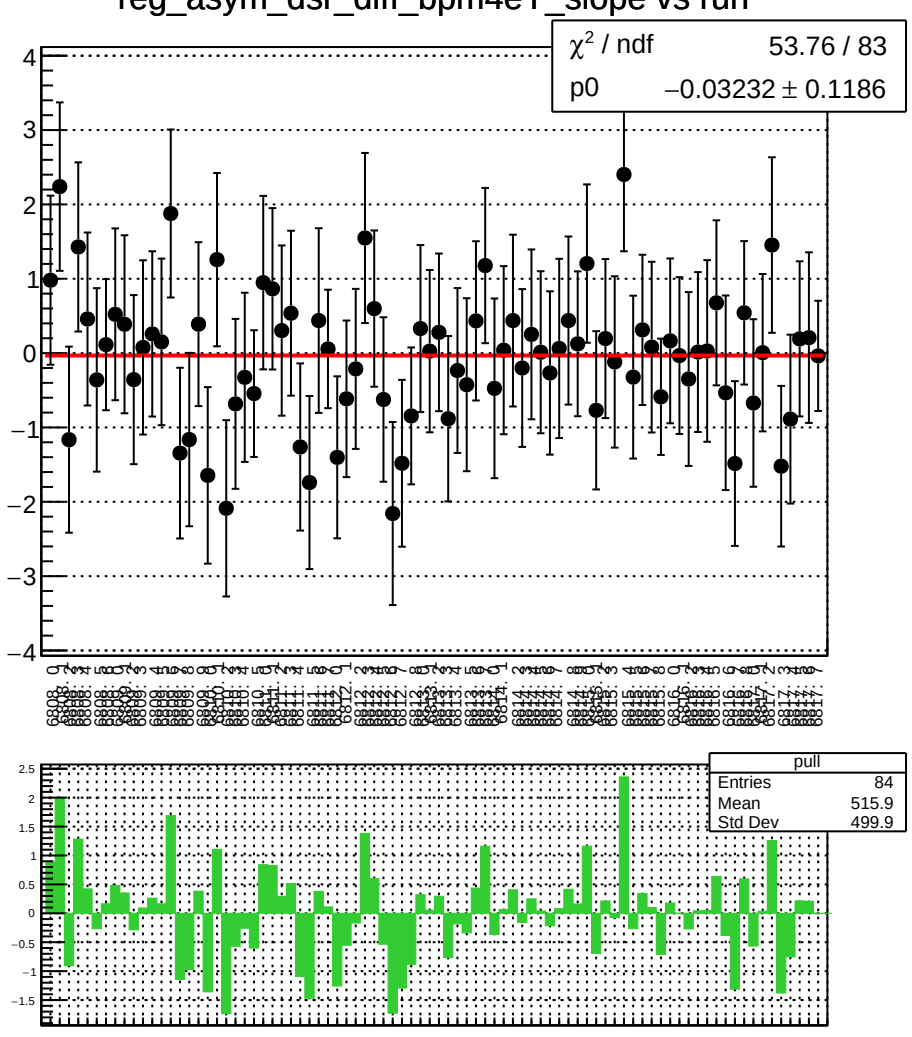

pull1D
Entries 84
Mean 0.005517
Std Dev 0.849

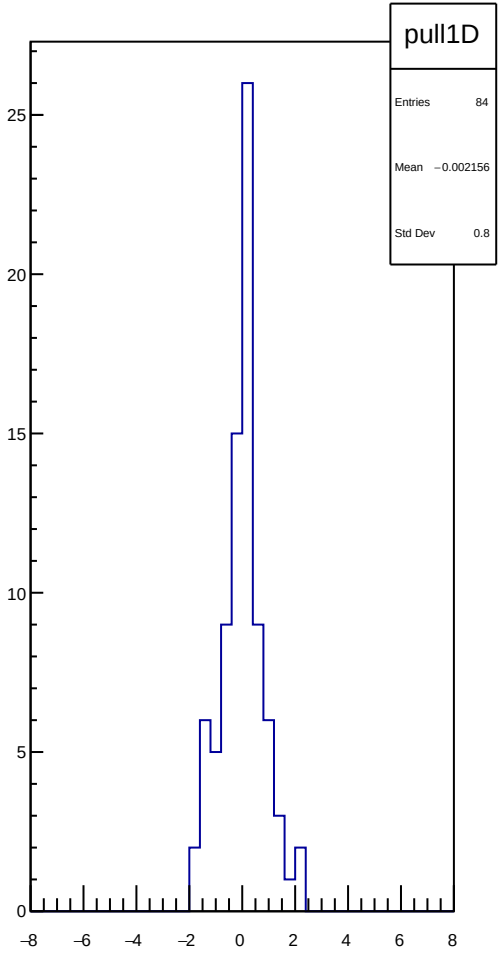

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 54.64 / 83
p0 0.02336 ± 0.09836
pull
Entries 84
Mean 121
Std Dev 108.2

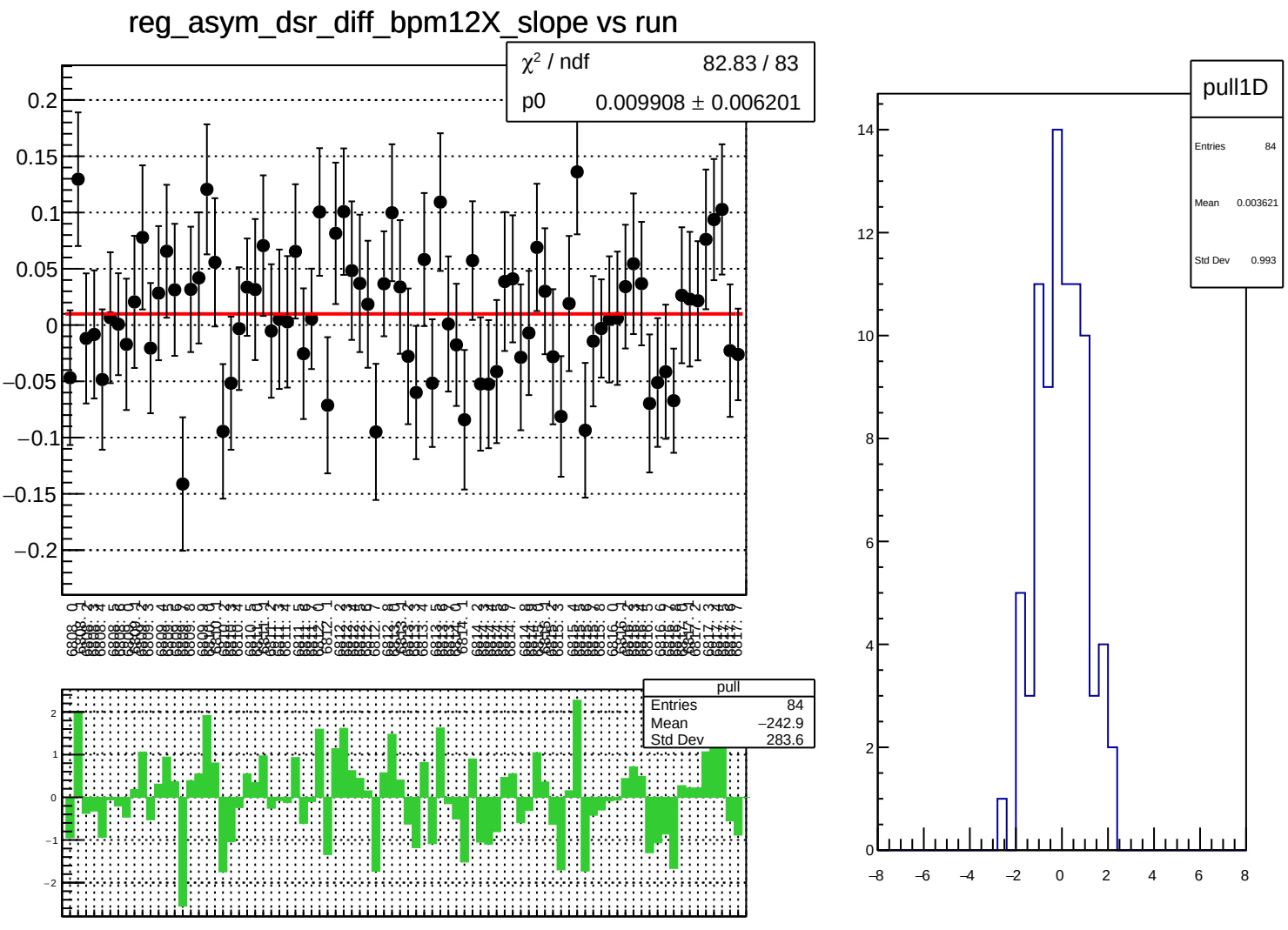

pull1D
Entries 84
Mean 0.009042
Std Dev 0.8064

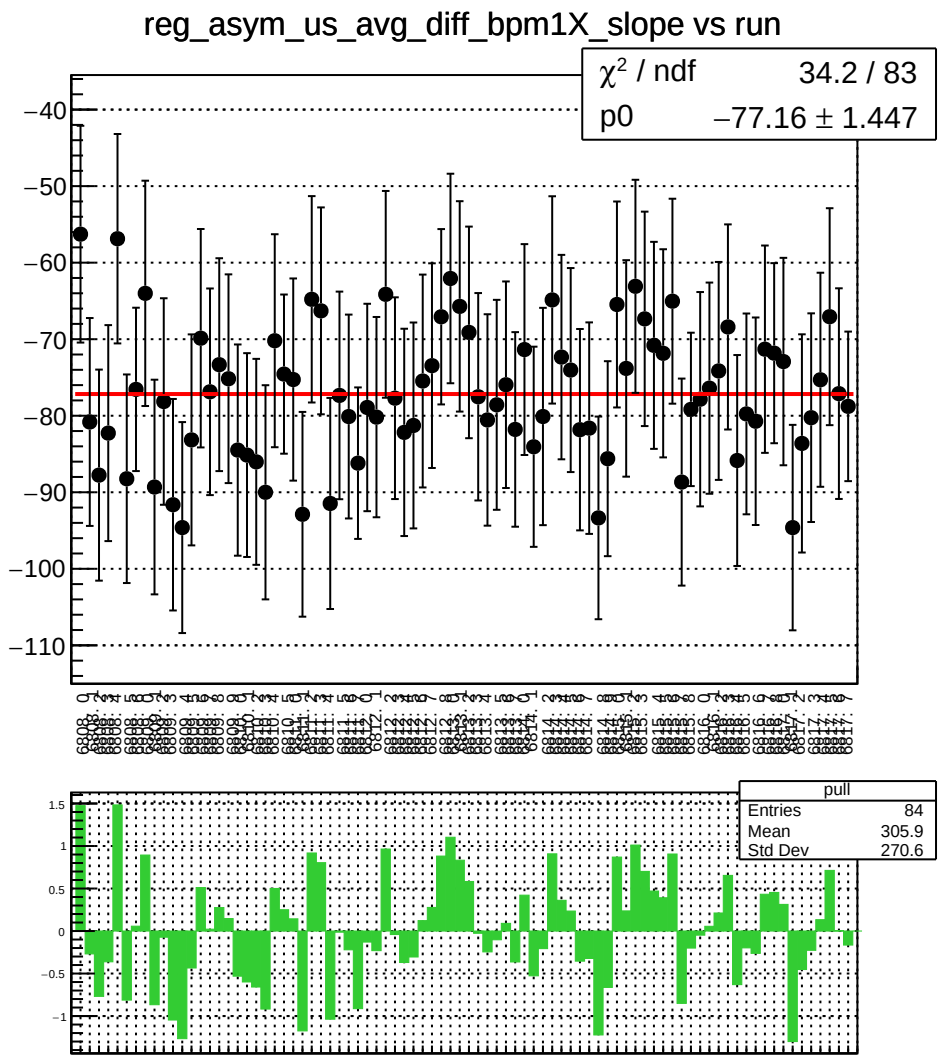

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 62.25 / 83
p0 0.1853 ± 0.1429
pull
Entries 84
Mean −49.73
Std Dev 61.35

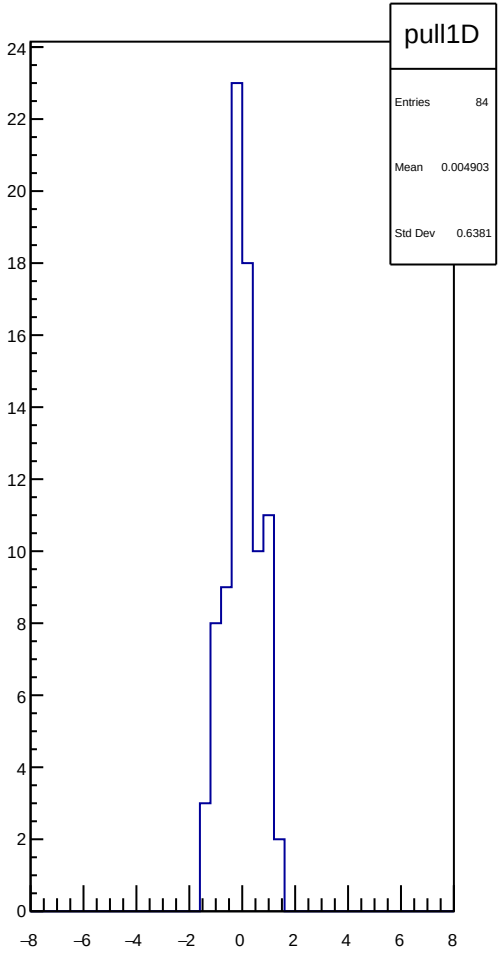

pull1D
Entries 84
Mean −0.004751
Std Dev 0.8608

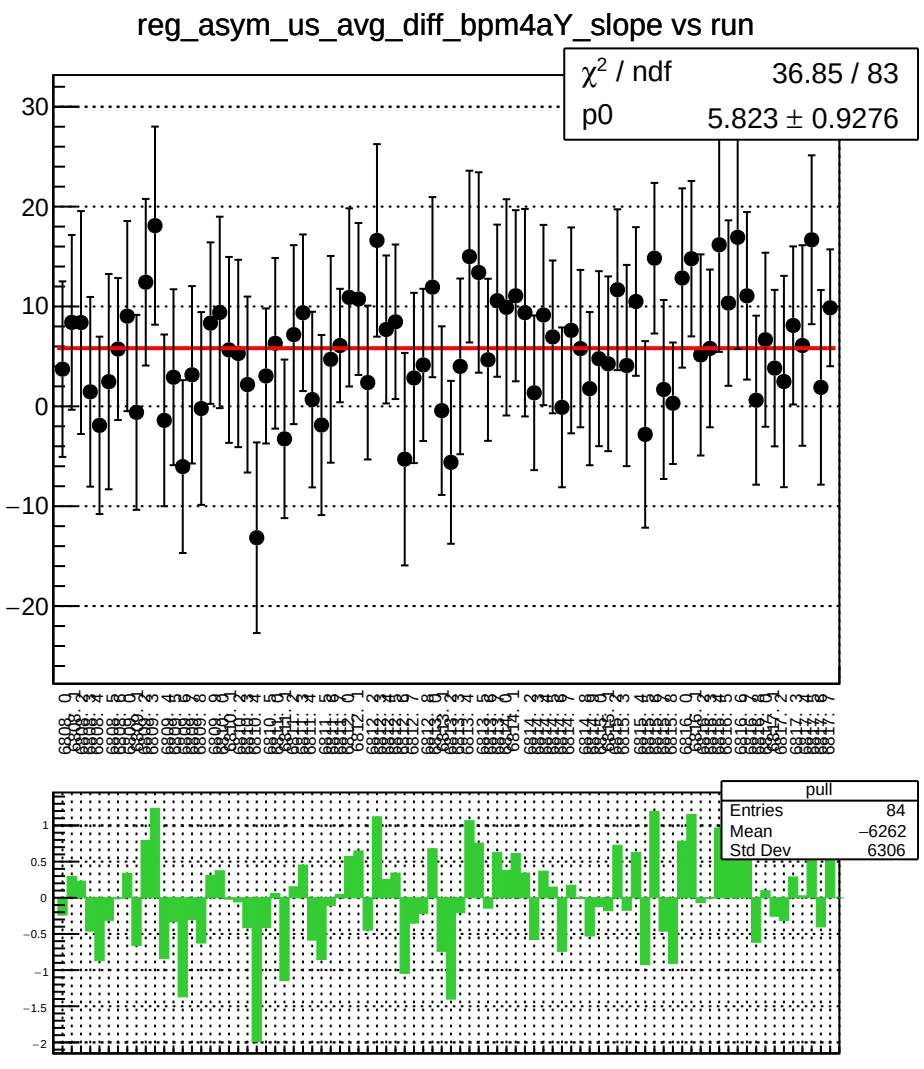

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 53.76 / 83
p0 −0.03232 ± 0.1186
pull
Entries 84
Mean 515.9
Std Dev 499.9

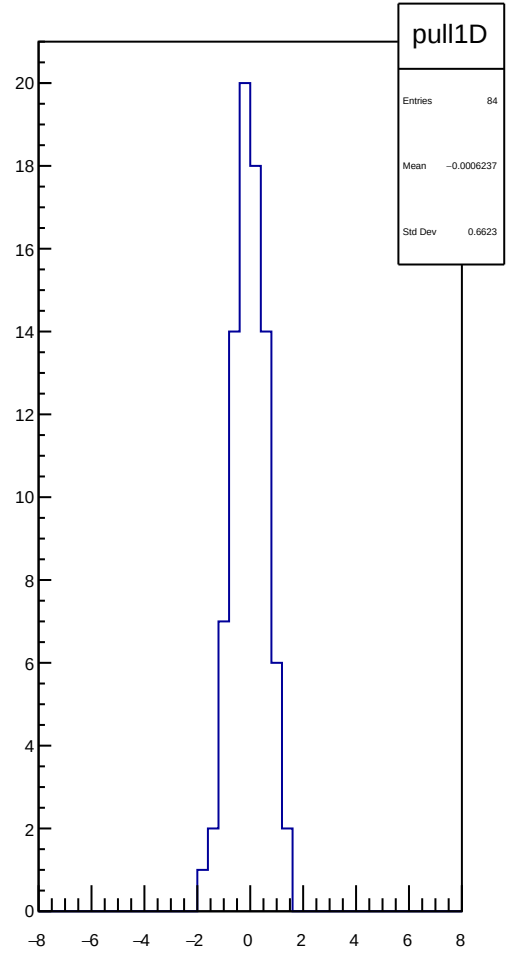

pull1D
Entries 84
Mean −0.002156
Std Dev 0.8

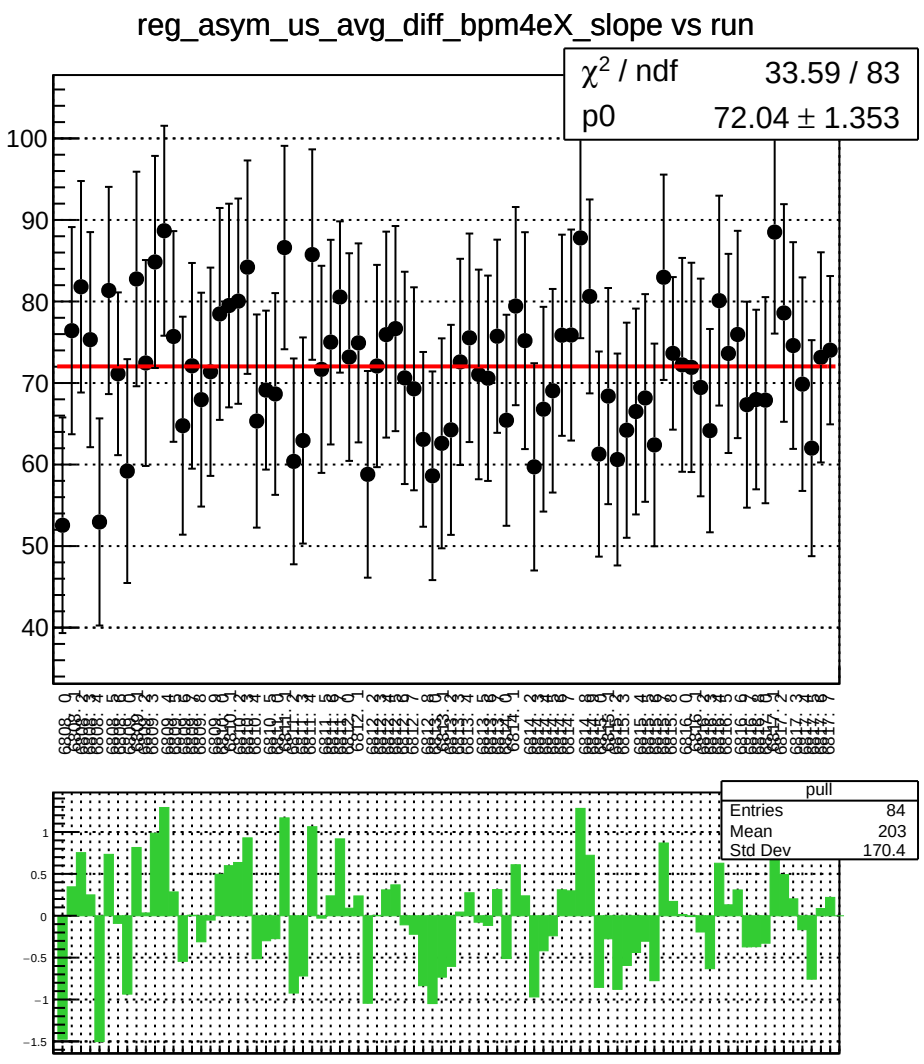

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 82.83 / 83
p0 0.009908 ± 0.006201
pull
Entries 84
Mean −242.9
Std Dev 283.6
pull1D
Entries 84
Mean 0.003621
Std Dev 0.993

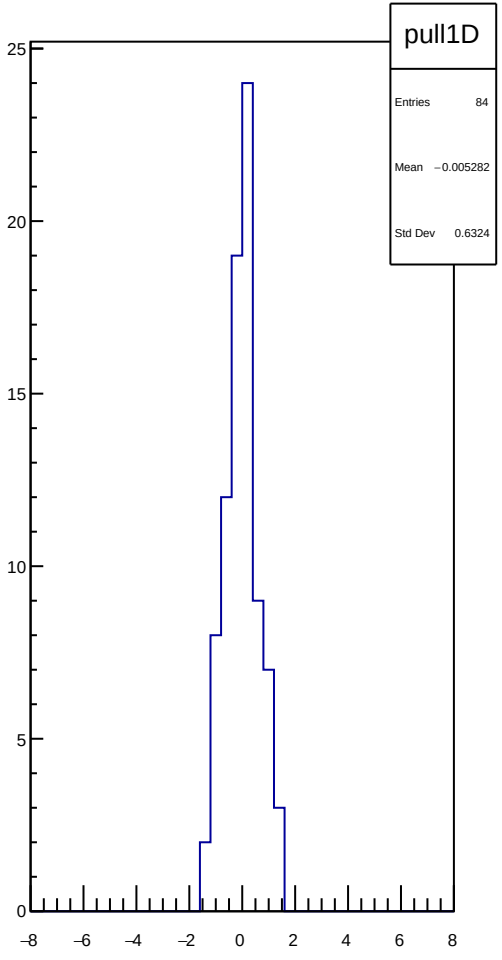

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 34.2 / 83
p0 −77.16 ± 1.447
pull
Entries 84
Mean 305.9
Std Dev 270.6

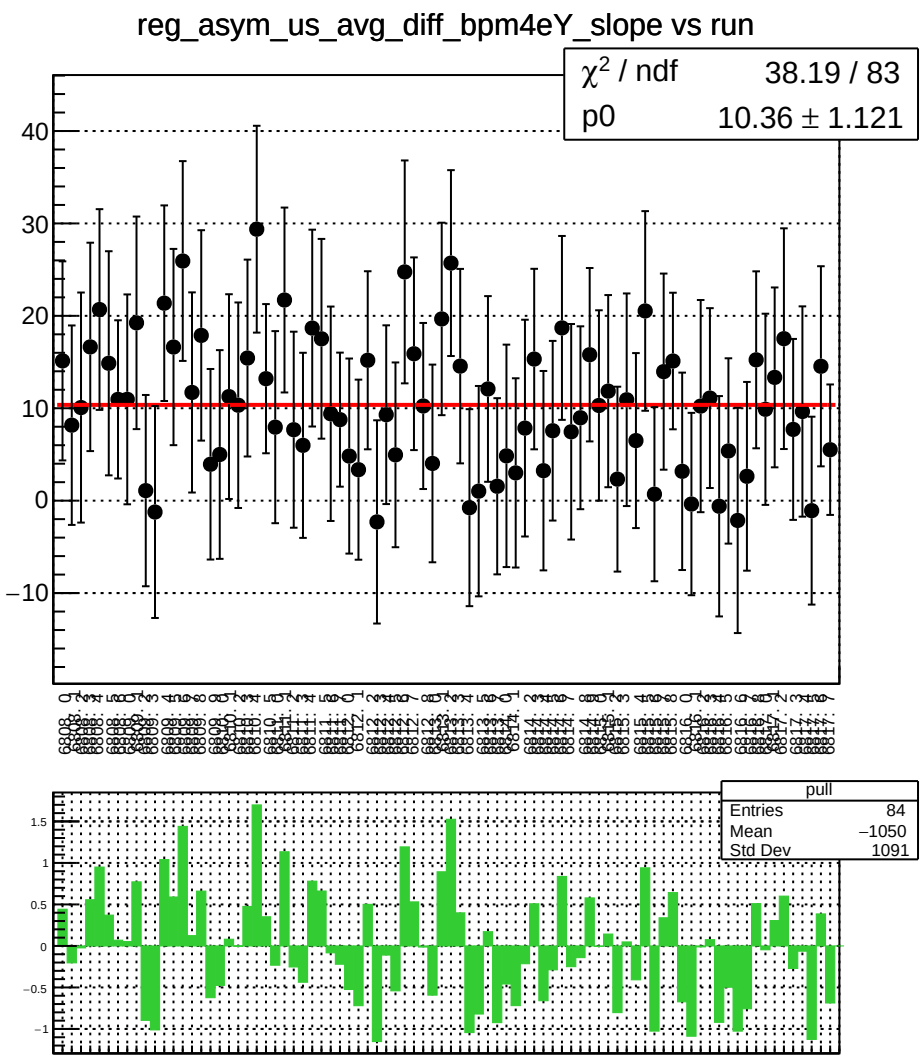

pull1D
Entries 84
Mean 0.004903
Std Dev 0.6381

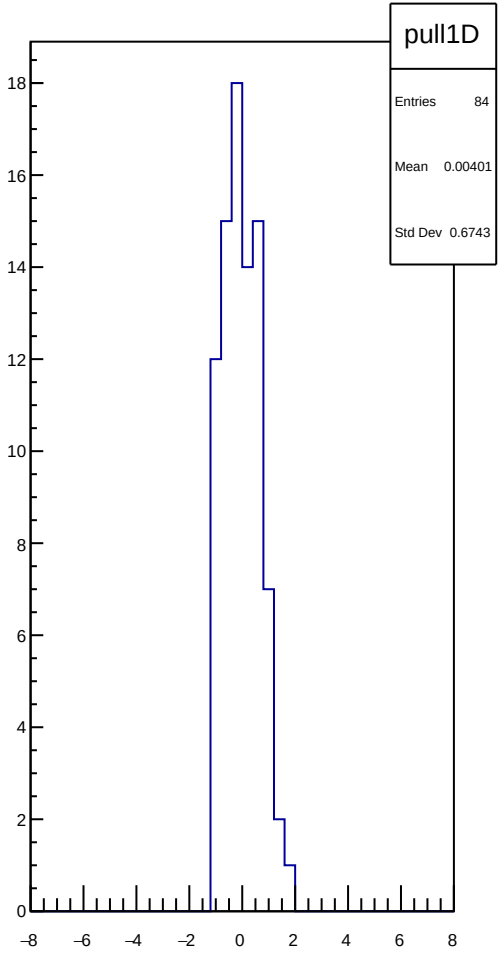

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.85 / 83
p0 5.823 ± 0.9276
pull
Entries 84
Mean −6262
Std Dev 6306

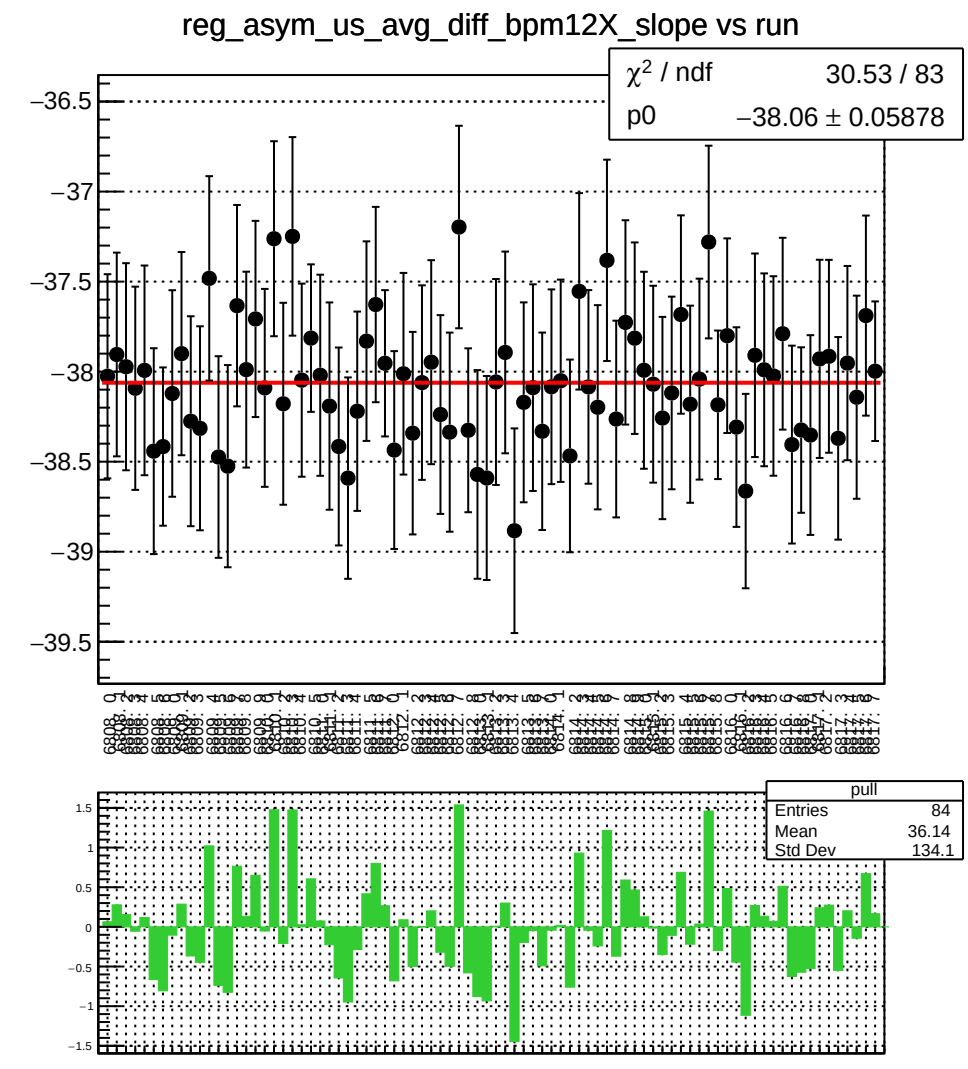

pull1D
Entries 84
Mean −0.0006237
Std Dev 0.6623

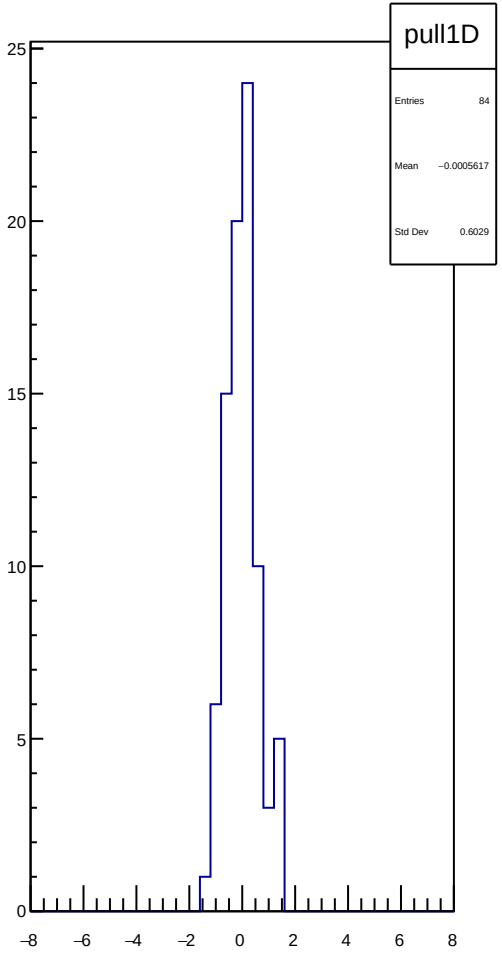

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.59 / 83
p0 72.04 ± 1.353
pull
Entries 84
Mean 203
Std Dev 170.4

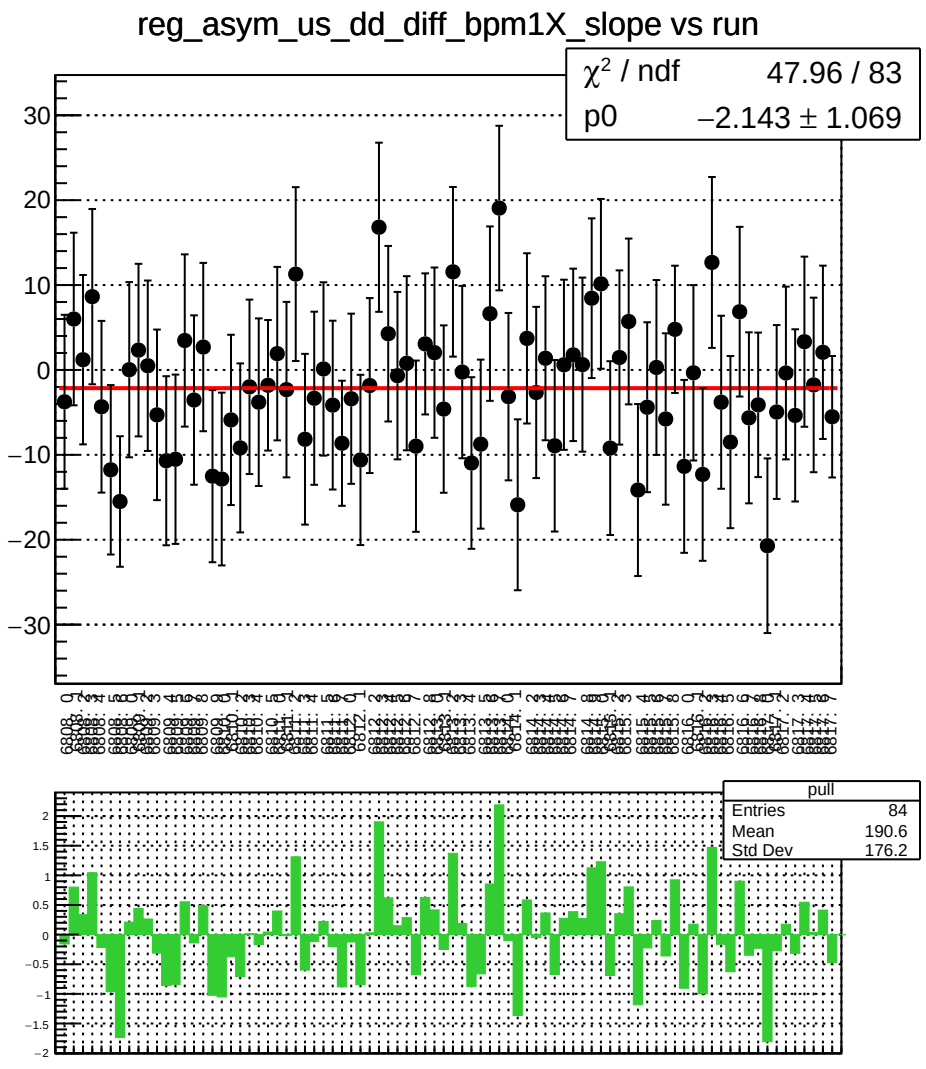

pull1D
Entries 84
Mean −0.005282
Std Dev 0.6324

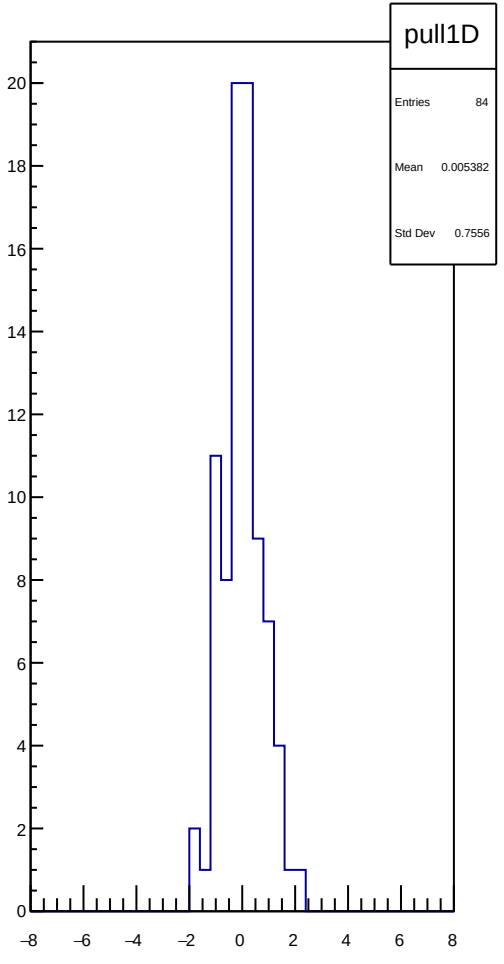

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 38.19 / 83
p0 10.36 ± 1.121
pull
Entries 84
Mean −1050
Std Dev 1091

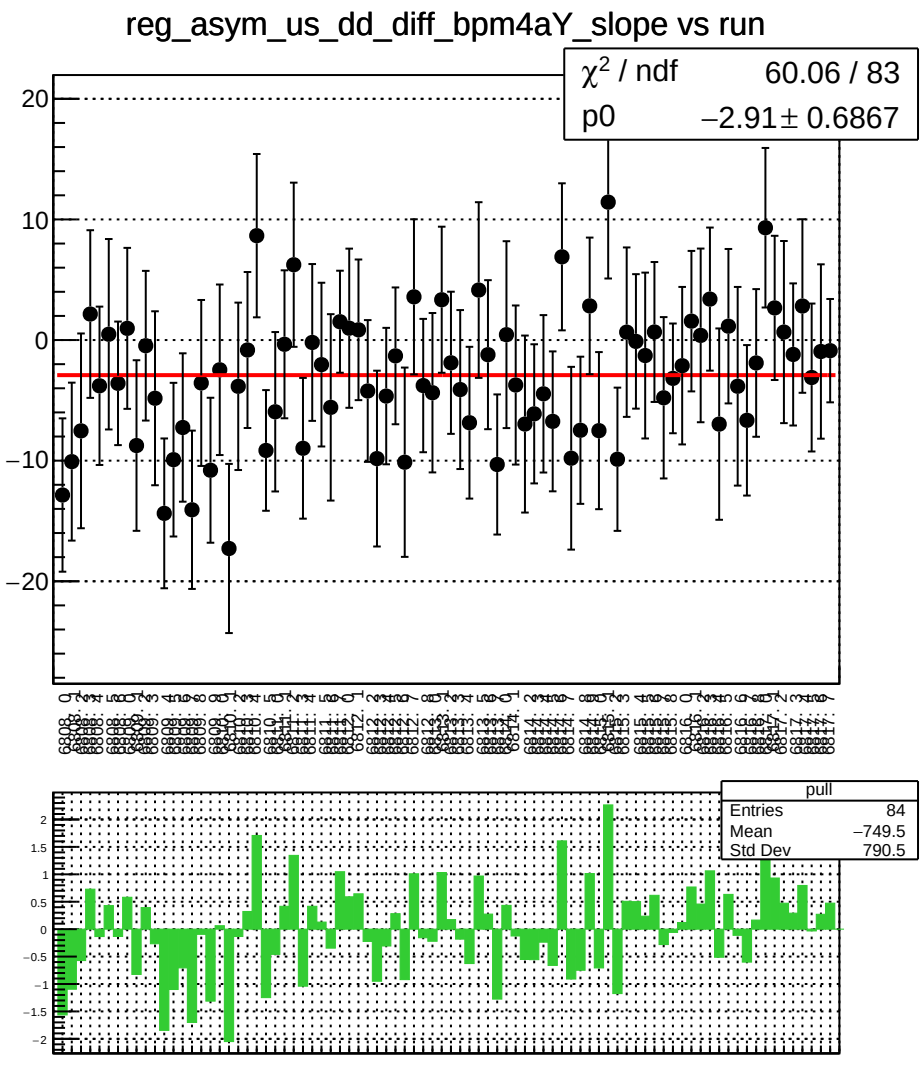

pull1D
Entries 84
Mean 0.00401
Std Dev 0.6743

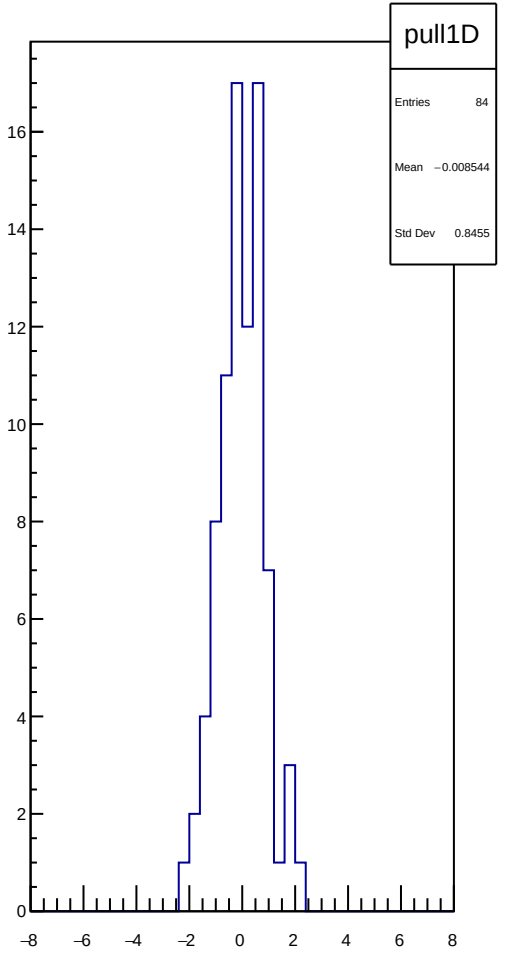

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 30.53 / 83
p0 −38.06 ± 0.05878
pull
Entries 84
Mean 36.14
Std Dev 134.1

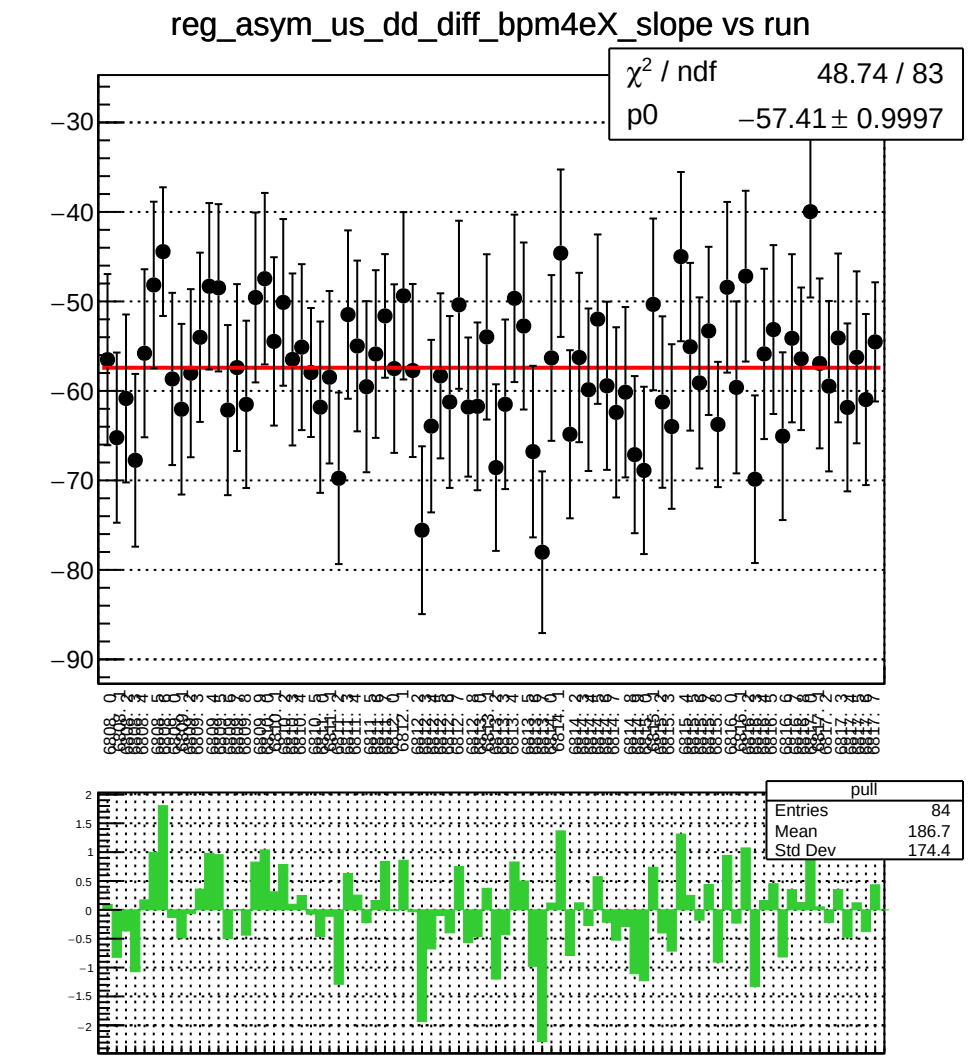

pull1D
Entries 84
Mean −0.0005617
Std Dev 0.6029

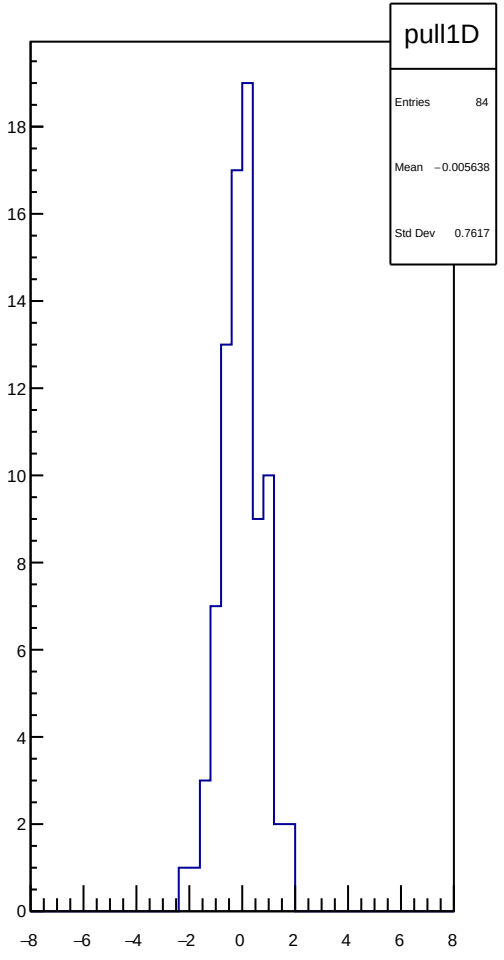

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 47.96 / 83
p0 −2.143 ± 1.069
pull
Entries 84
Mean 190.6
Std Dev 176.2

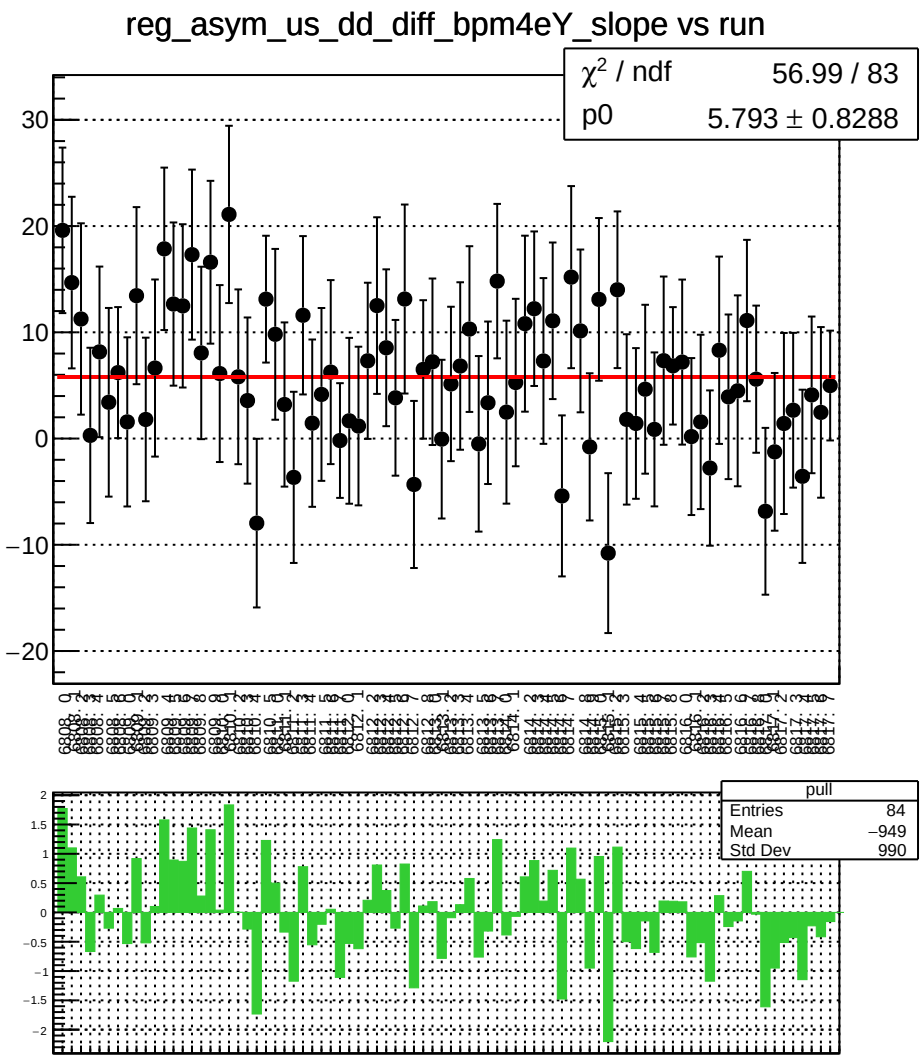

pull1D
Entries 84
Mean 0.005382
Std Dev 0.7556

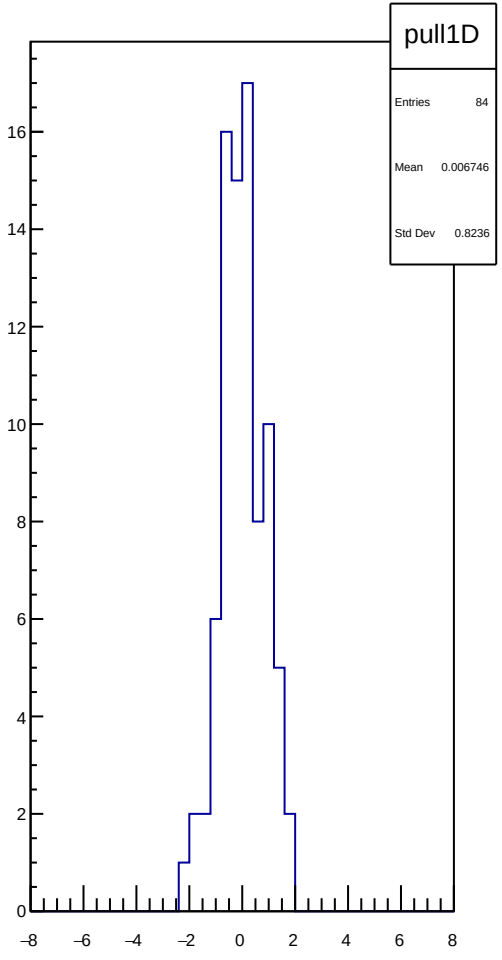

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.06 / 83
p0 −2.91 ± 0.6867
pull
Entries 84
Mean −749.5
Std Dev 790.5

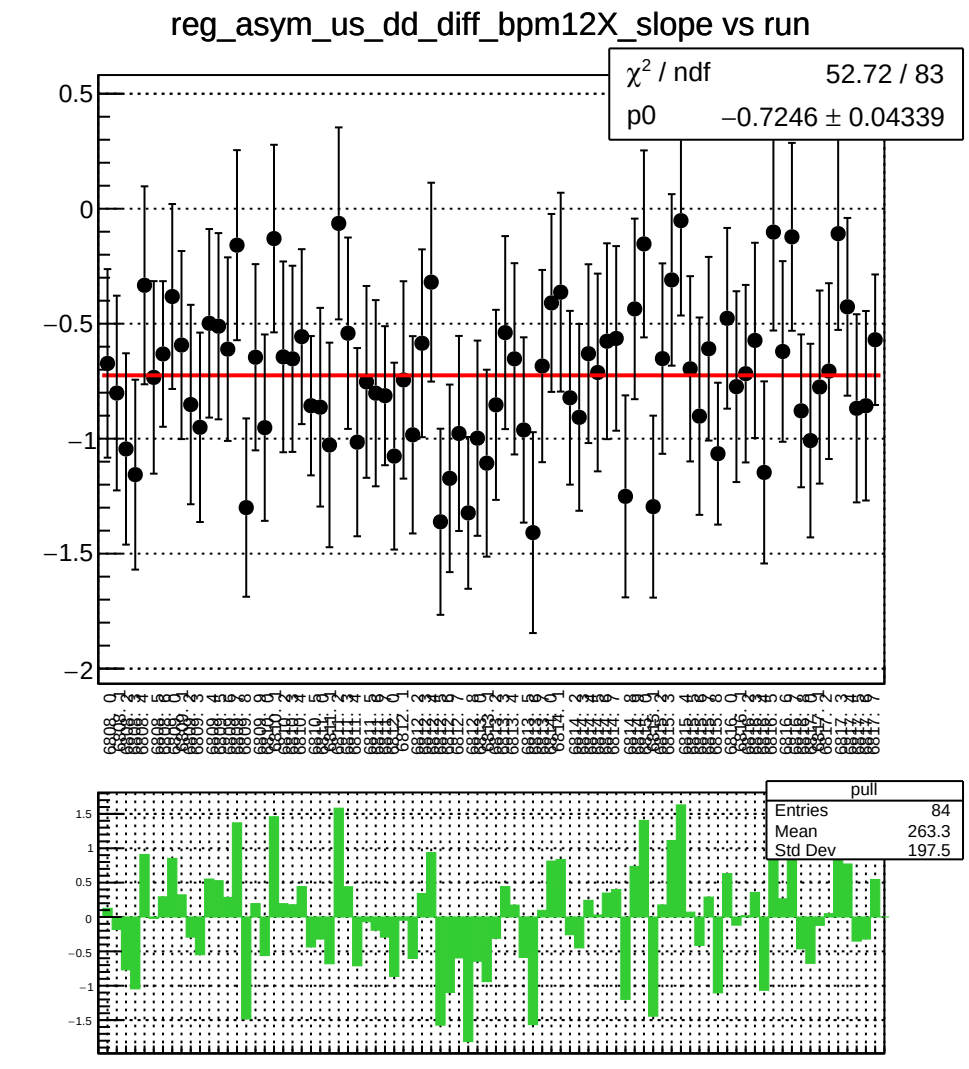

pull1D
Entries 84
Mean −0.008544
Std Dev 0.8455

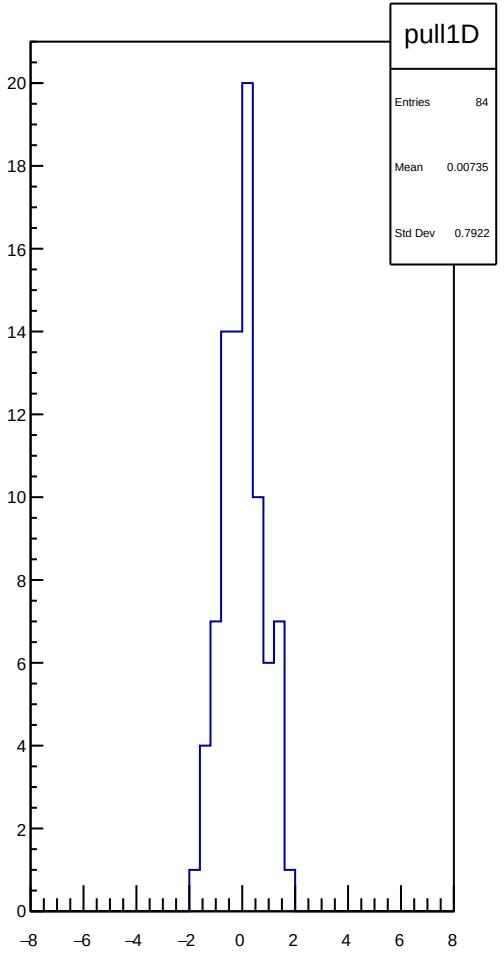

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.74 / 83
p0 −57.41 ± 0.9997
pull
Entries 84
Mean 186.7
Std Dev 174.4

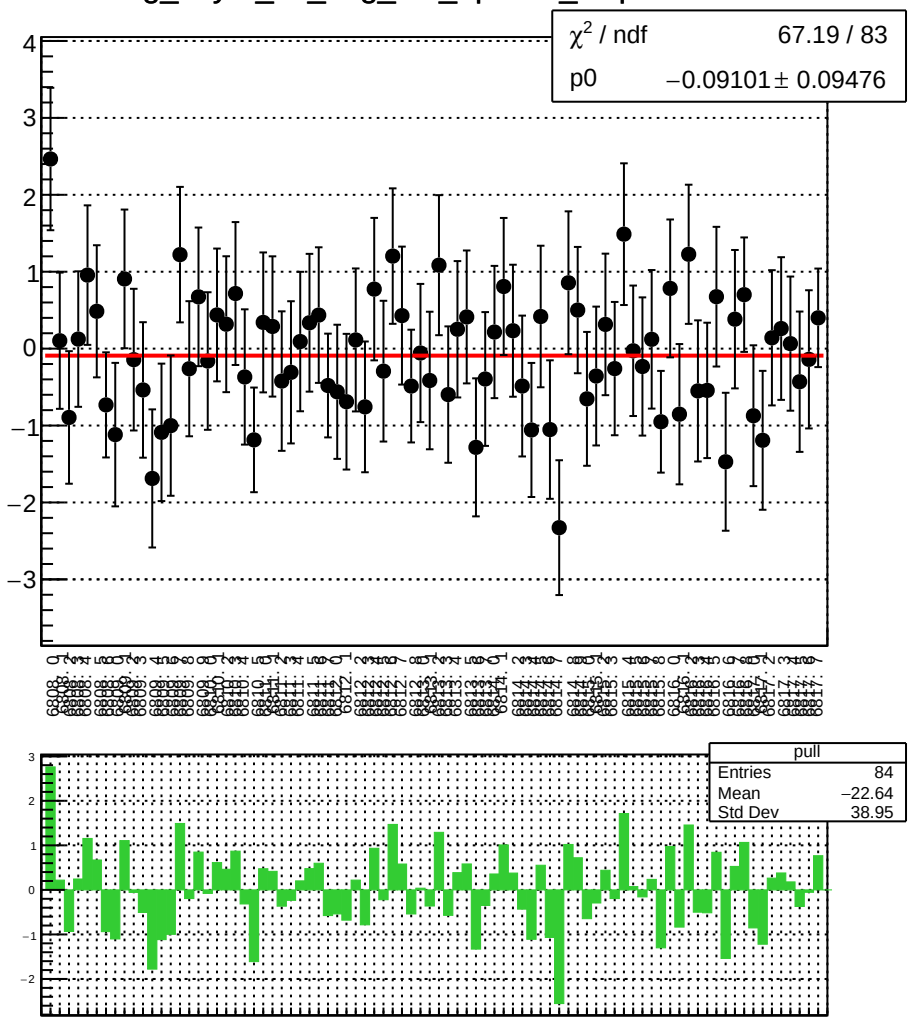

pull1D
Entries 84
Mean −0.005638
Std Dev 0.7617

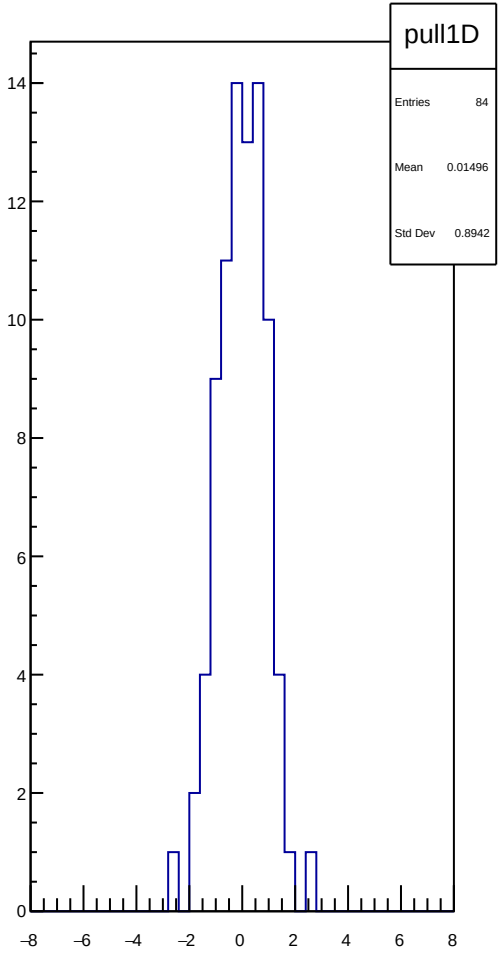

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.99 / 83
p0 5.793 ± 0.8288
pull
Entries 84
Mean −949
Std Dev 990

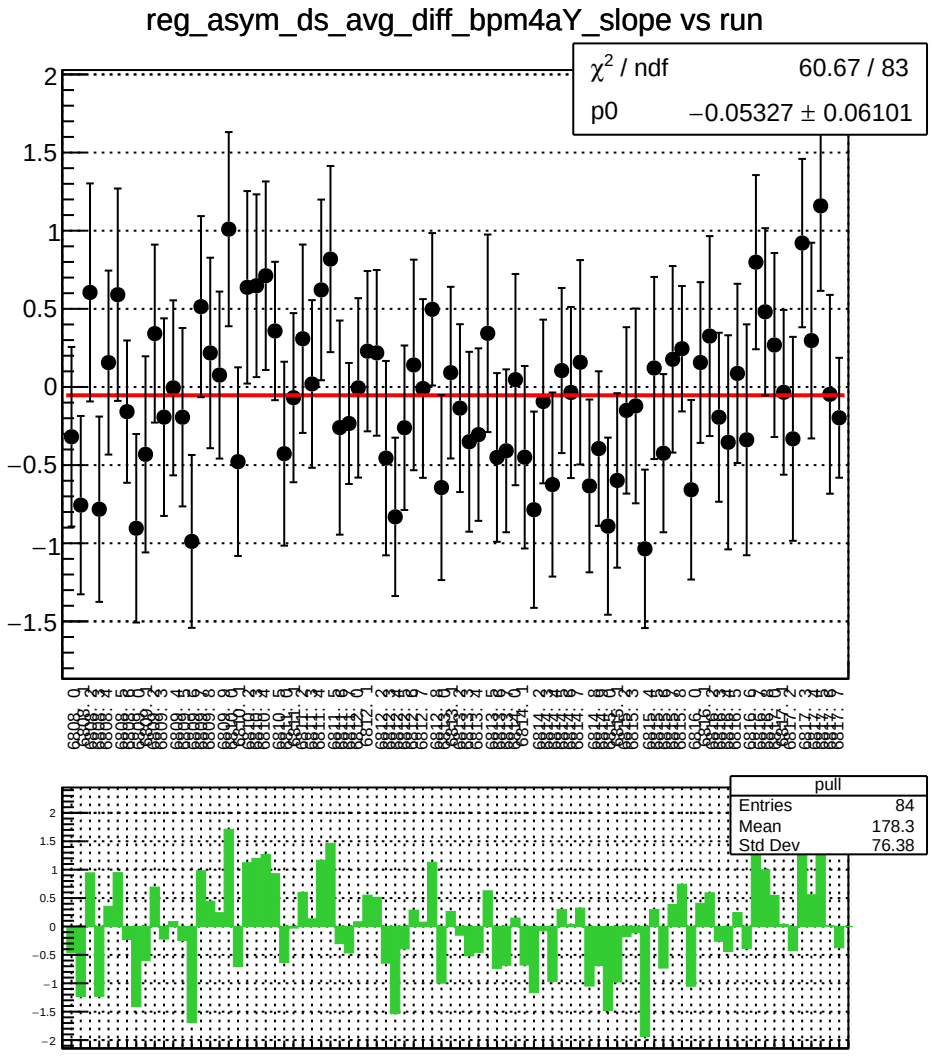

pull1D
Entries 84
Mean 0.006746
Std Dev 0.8236

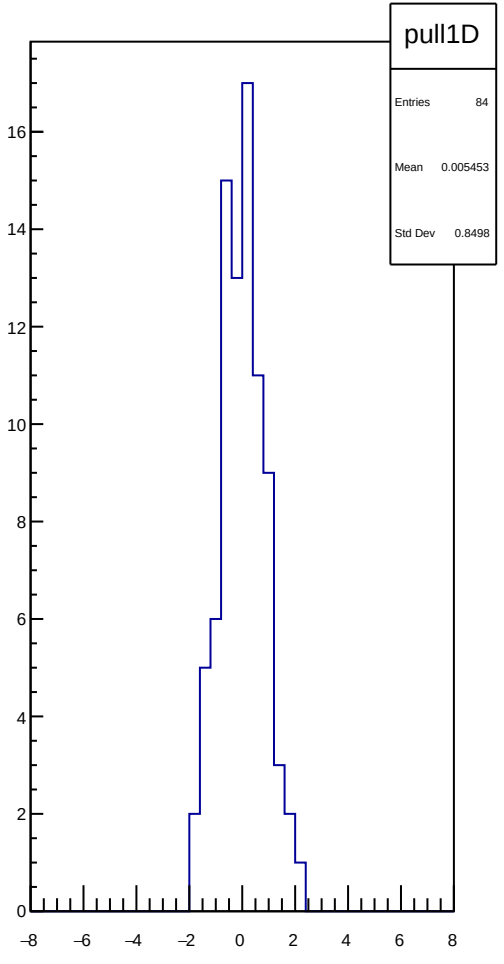

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 52.72 / 83
p0 −0.7246 ± 0.04339
pull
Entries 84
Mean 263.3
Std Dev 197.5

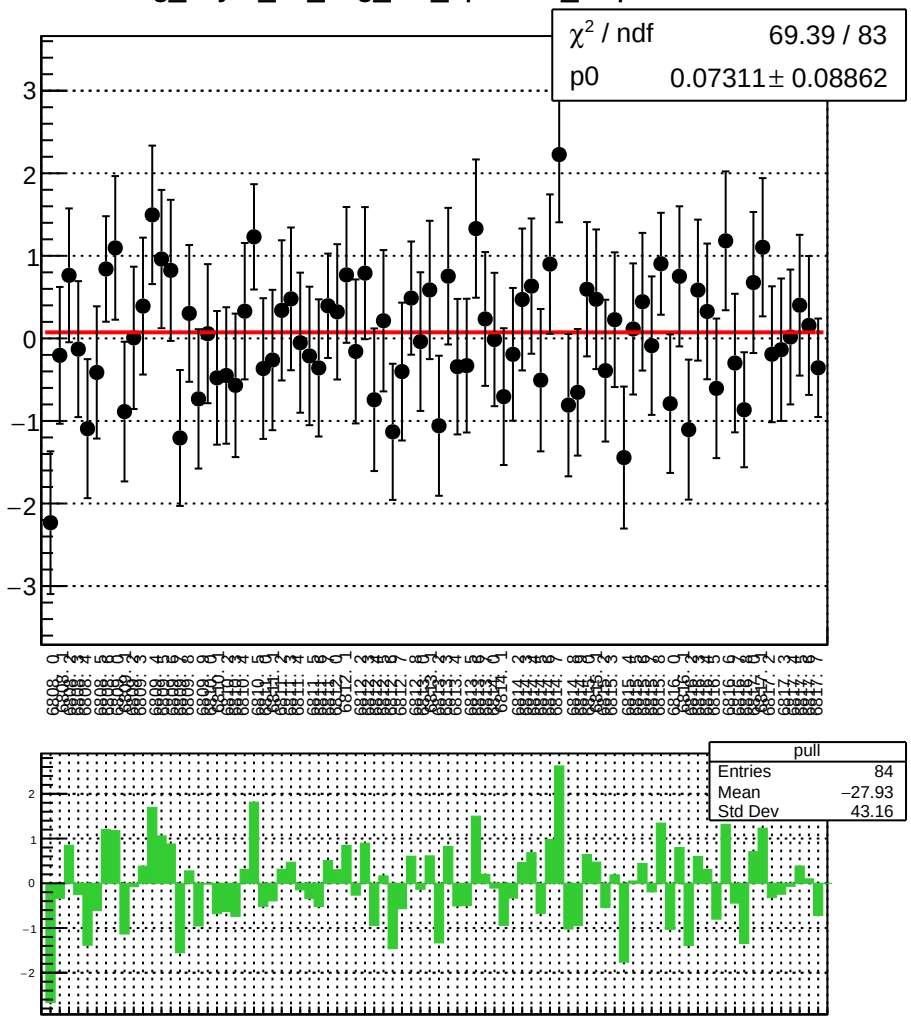

pull1D
Entries 84
Mean 0.00735
Std Dev 0.7922

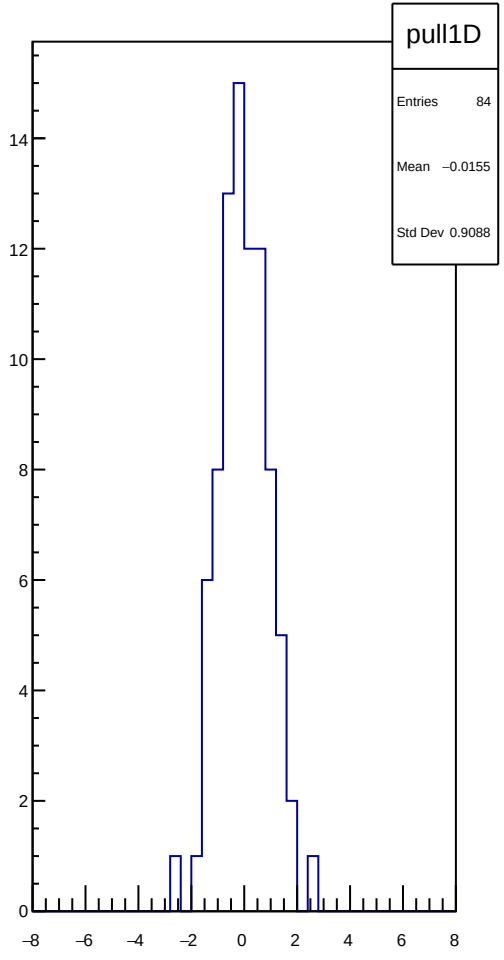

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 67.19 / 83
p0 −0.09101 ± 0.09476
pull
Entries 84
Mean −22.64
Std Dev 38.95

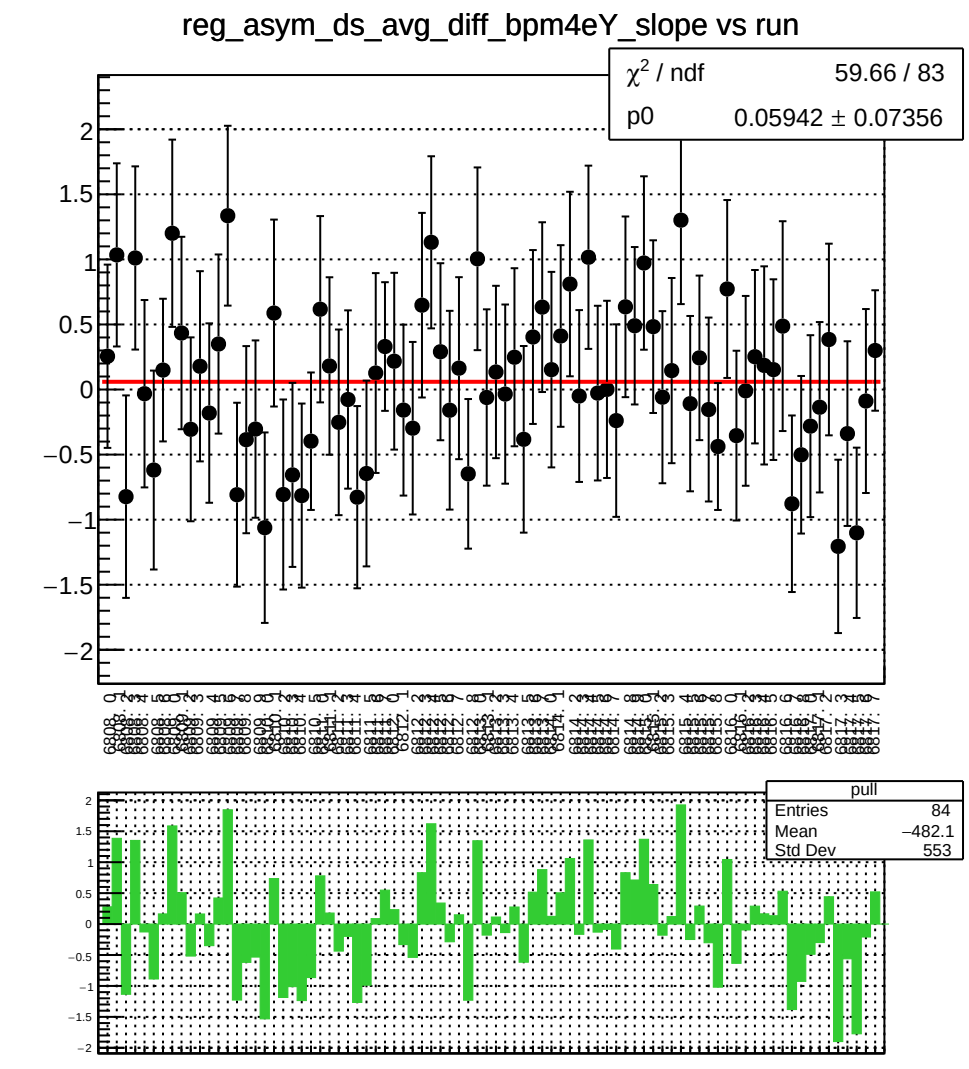

pull1D
Entries 84
Mean 0.01496
Std Dev 0.8942

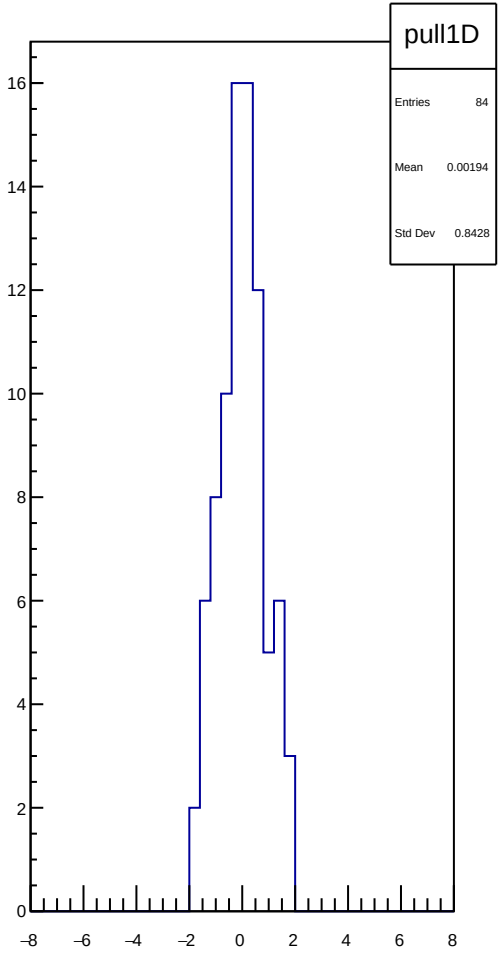

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.67 / 83
p0 −0.05327 ± 0.06101
pull
Entries 84
Mean 178.3
Std Dev 76.38

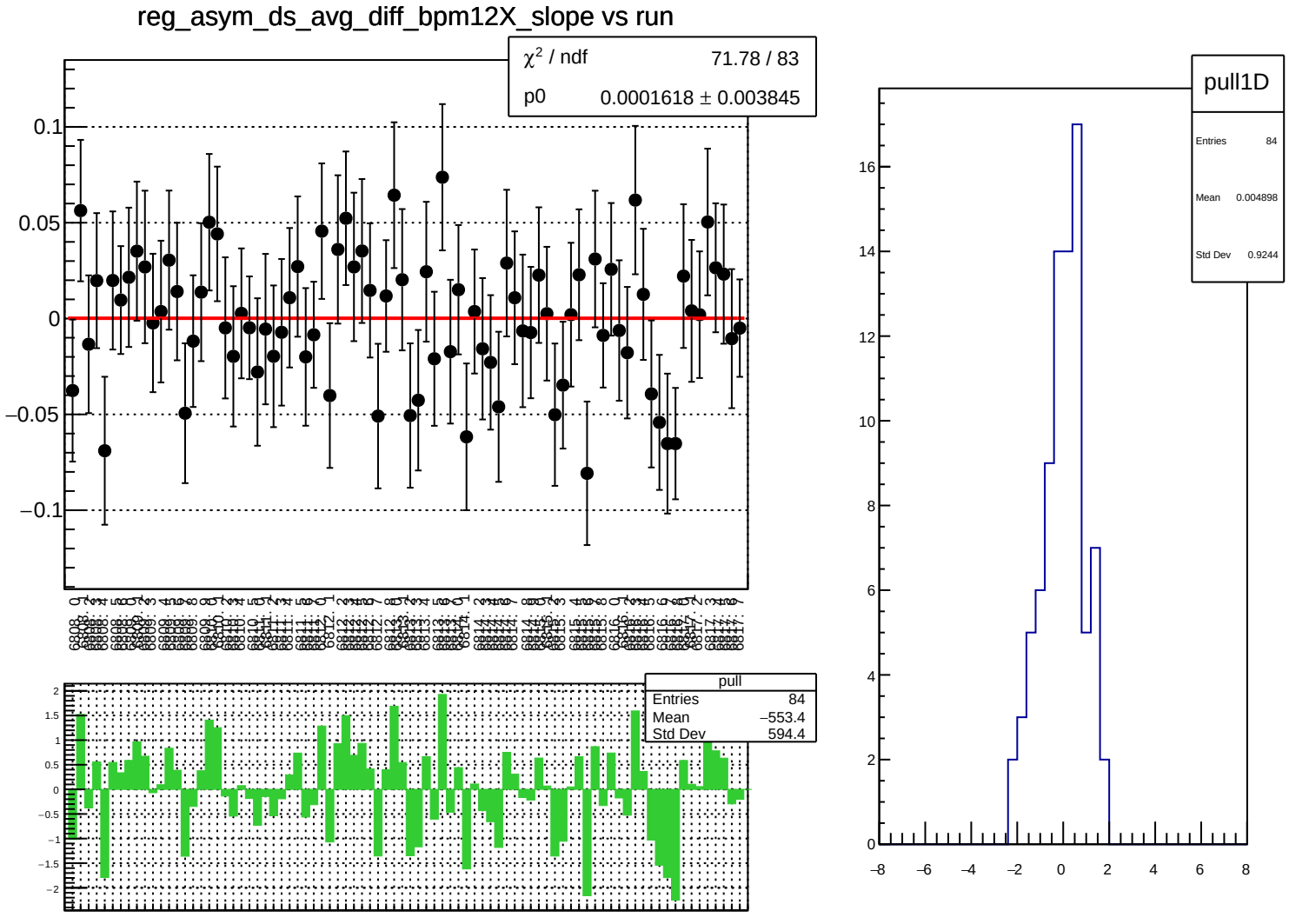

pull1D
Entries 84
Mean 0.005453
Std Dev 0.8498

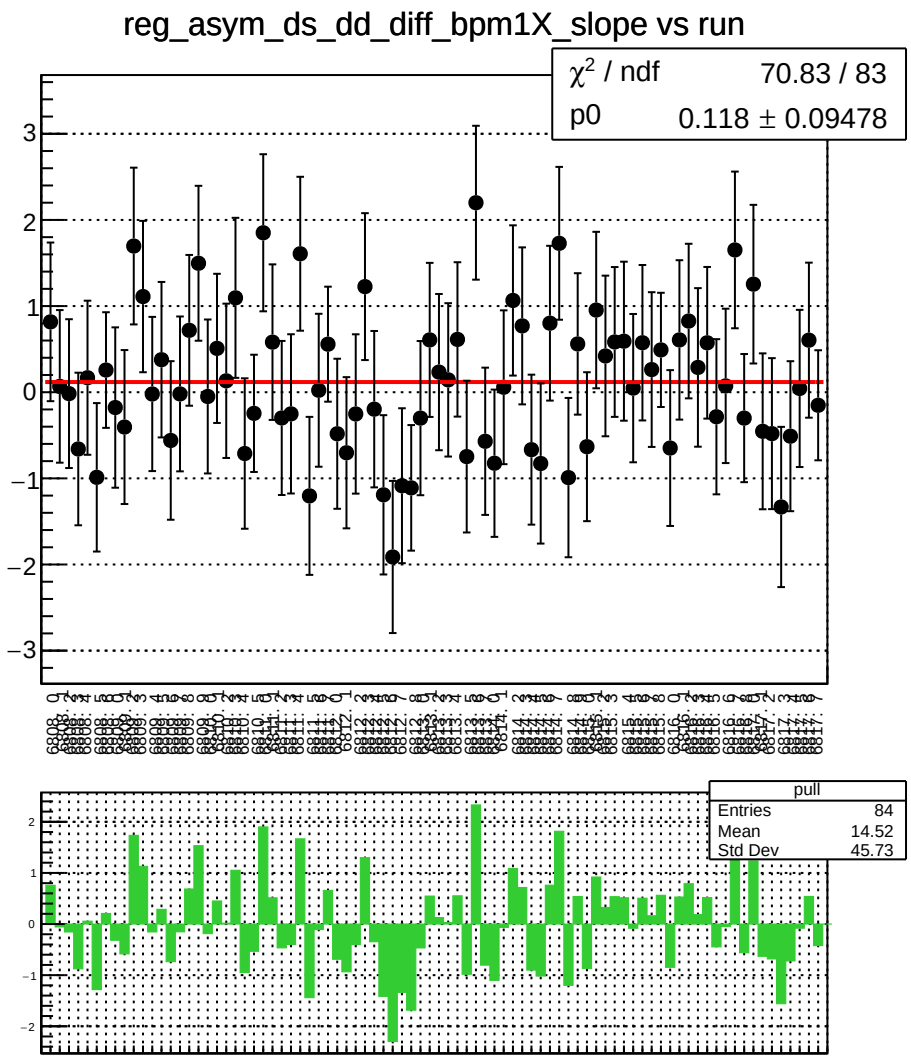

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 69.39 / 83
p0 0.07311 ± 0.08862
pull
Entries 84
Mean −27.93
Std Dev 43.16

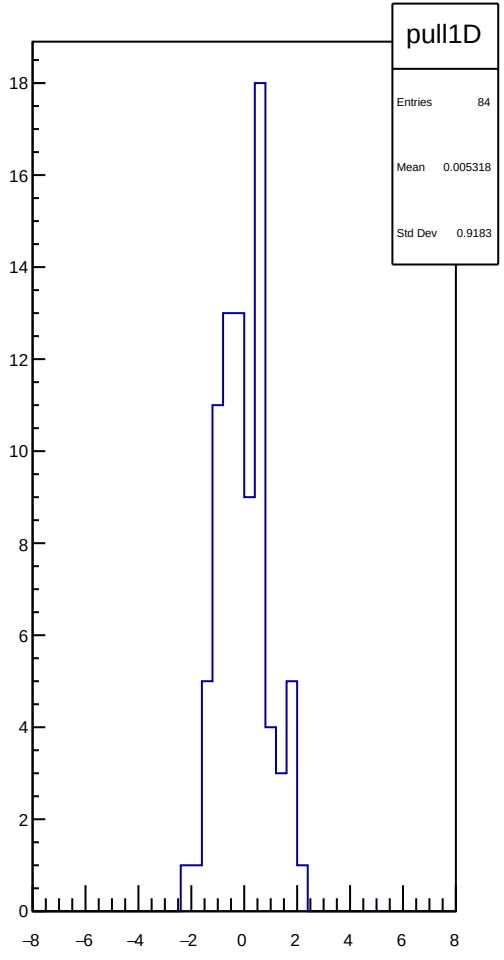

pull1D
Entries 84
Mean −0.0155
Std Dev 0.9088

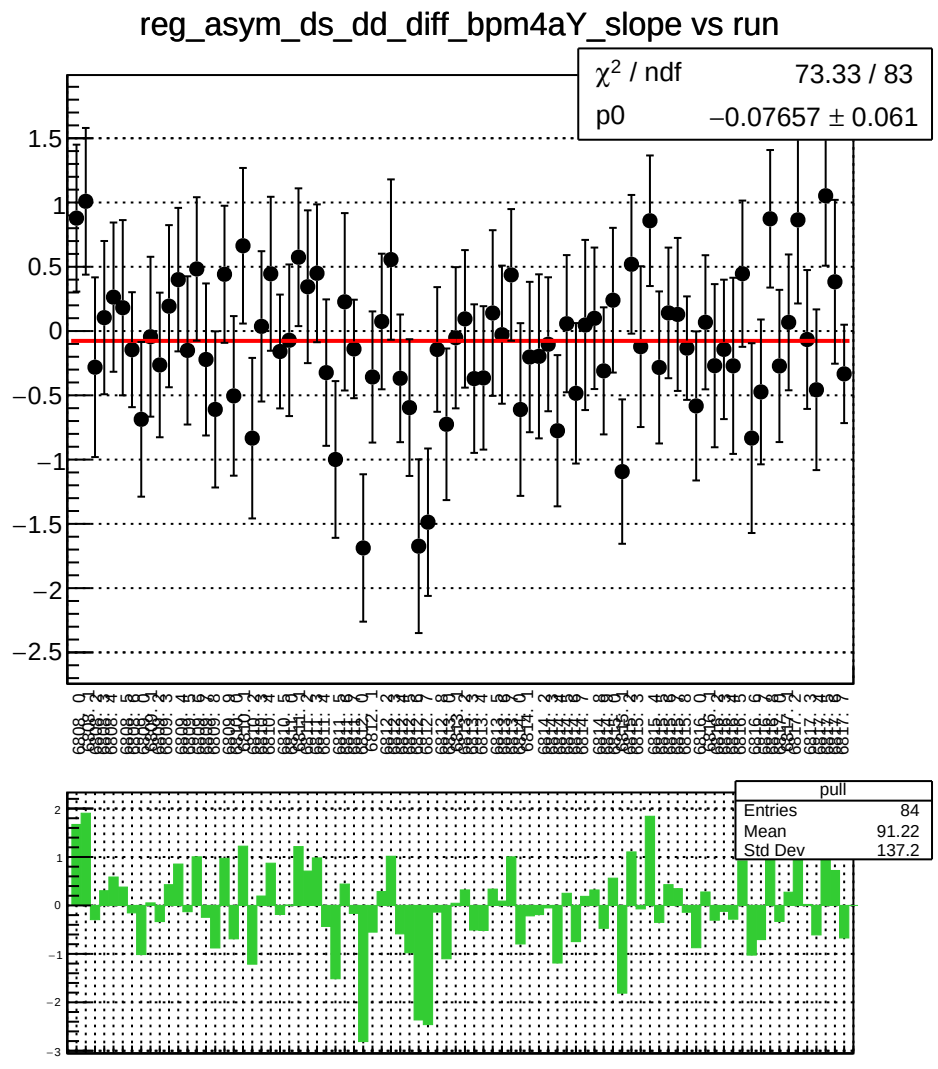

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 59.66 / 83
p0 0.05942 ± 0.07356
pull
Entries 84
Mean −482.1
Std Dev 553

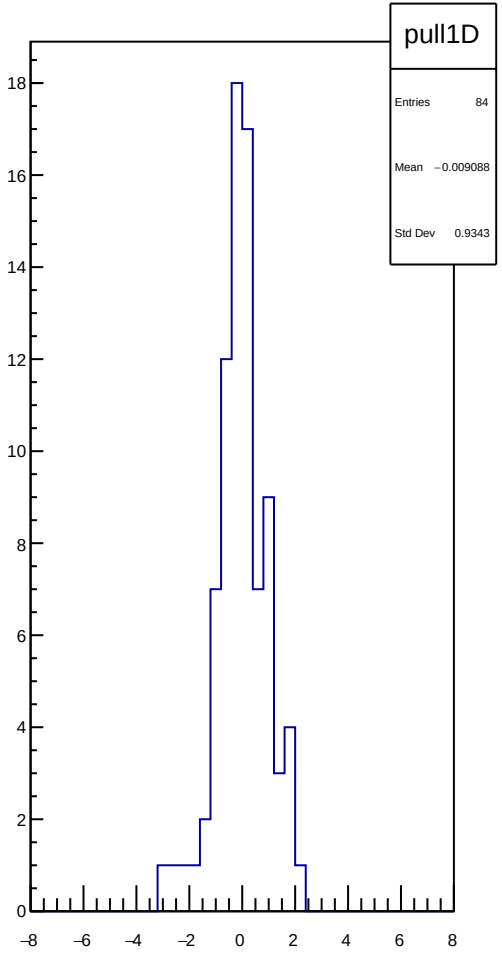

pull1D
Entries 84
Mean 0.00194
Std Dev 0.8428

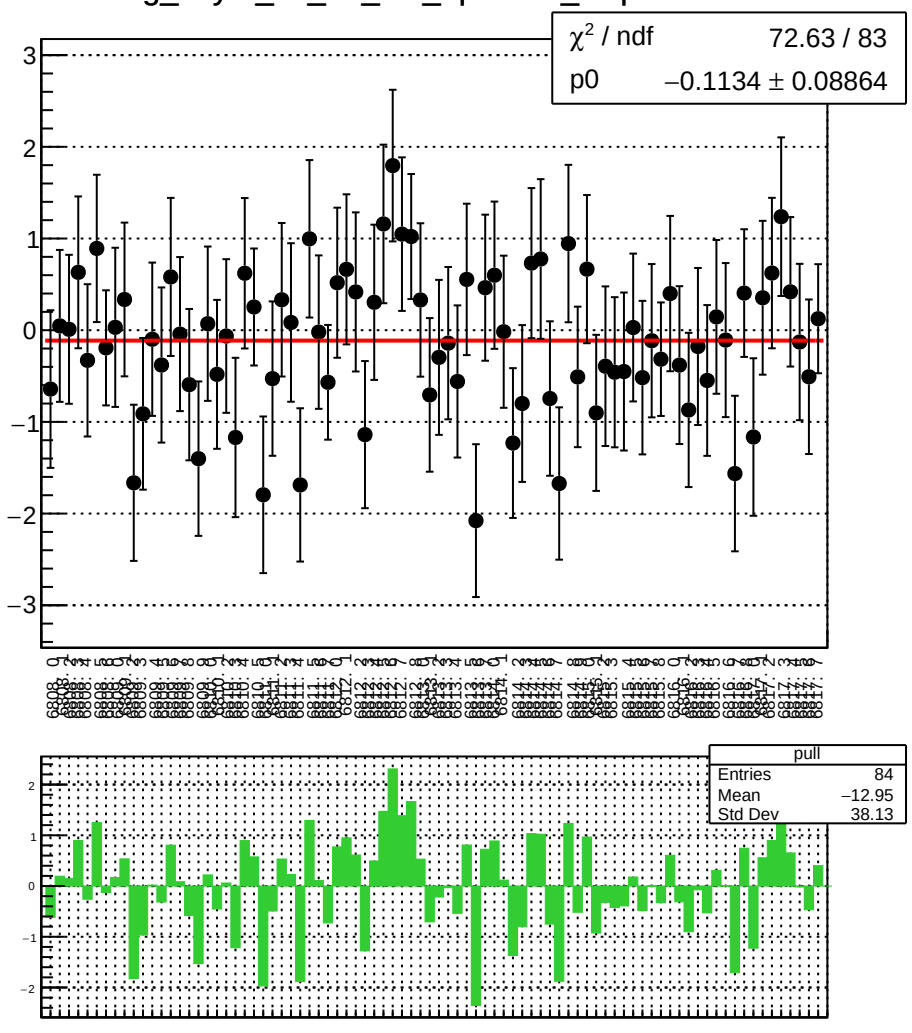

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 71.78 / 83
p0 0.0001618 ± 0.003845
0.1
0.05
0
−0.05
−0.1
pull
Entries 84
Mean −553.4
Std Dev 594.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 84
Mean 0.004898
Std Dev 0.9244
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

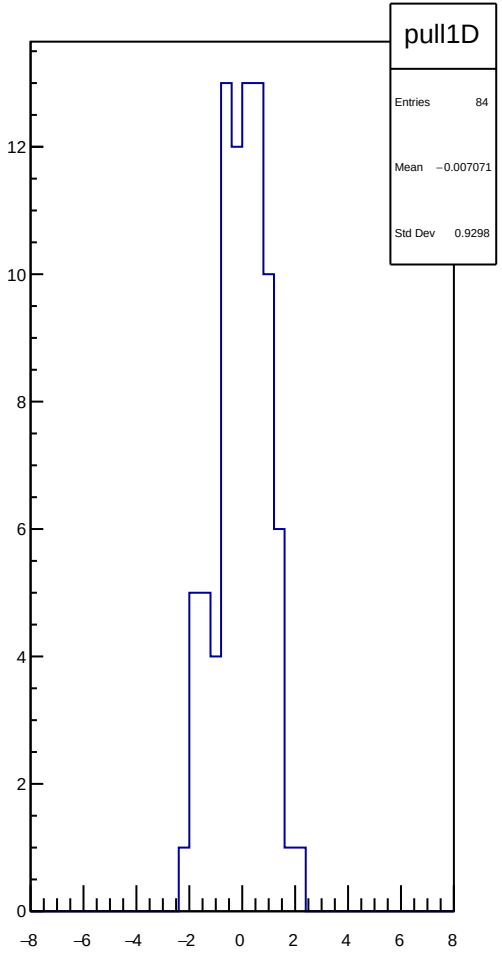

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 70.83 / 83
p0 0.118 ± 0.09478
pull
Entries 84
Mean 14.52
Std Dev 45.73

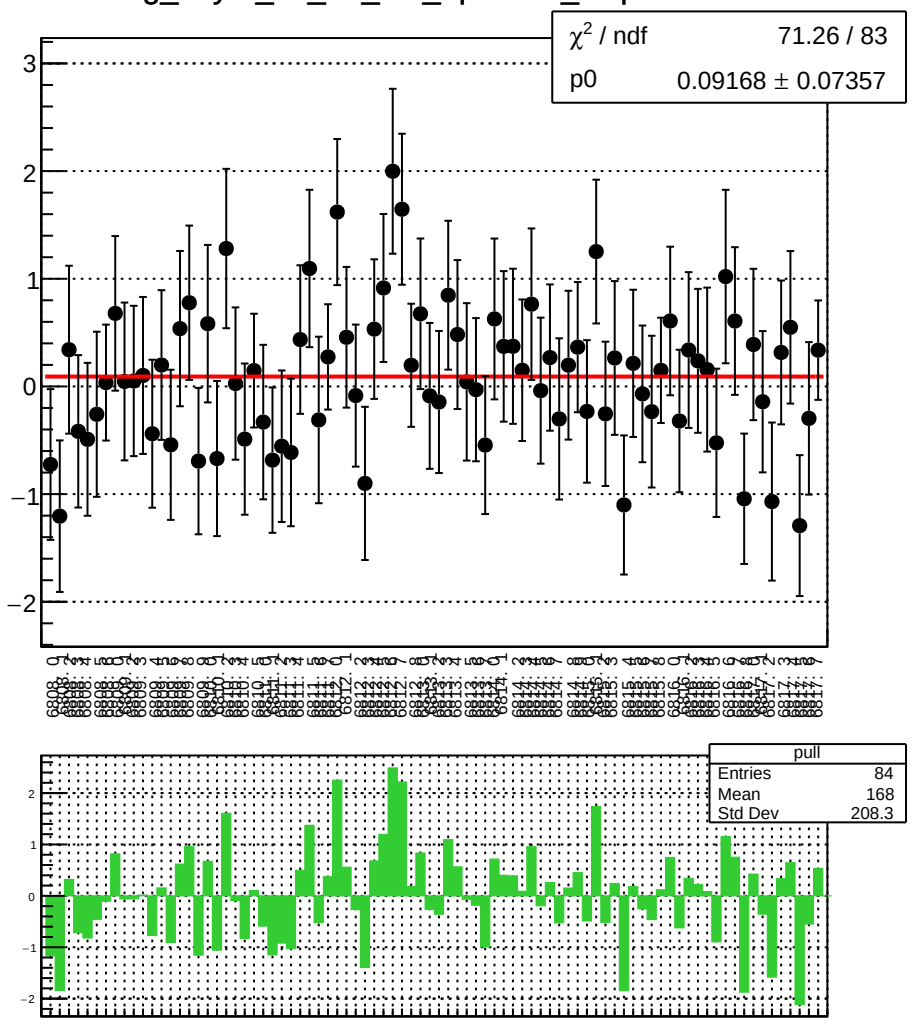

pull1D
Entries 84
Mean 0.005318
Std Dev 0.9183

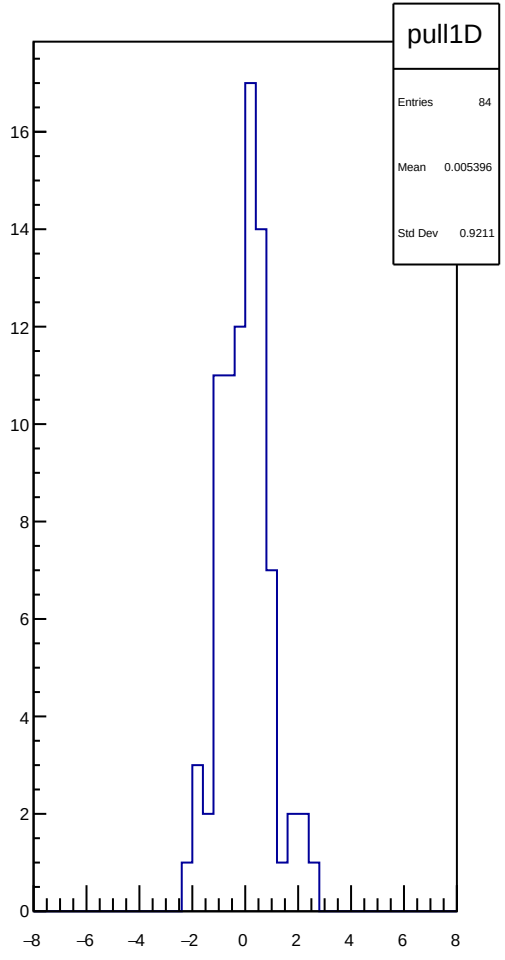

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.33 / 83
p0 −0.07657 ± 0.061
pull
Entries 84
Mean 91.22
Std Dev 137.2

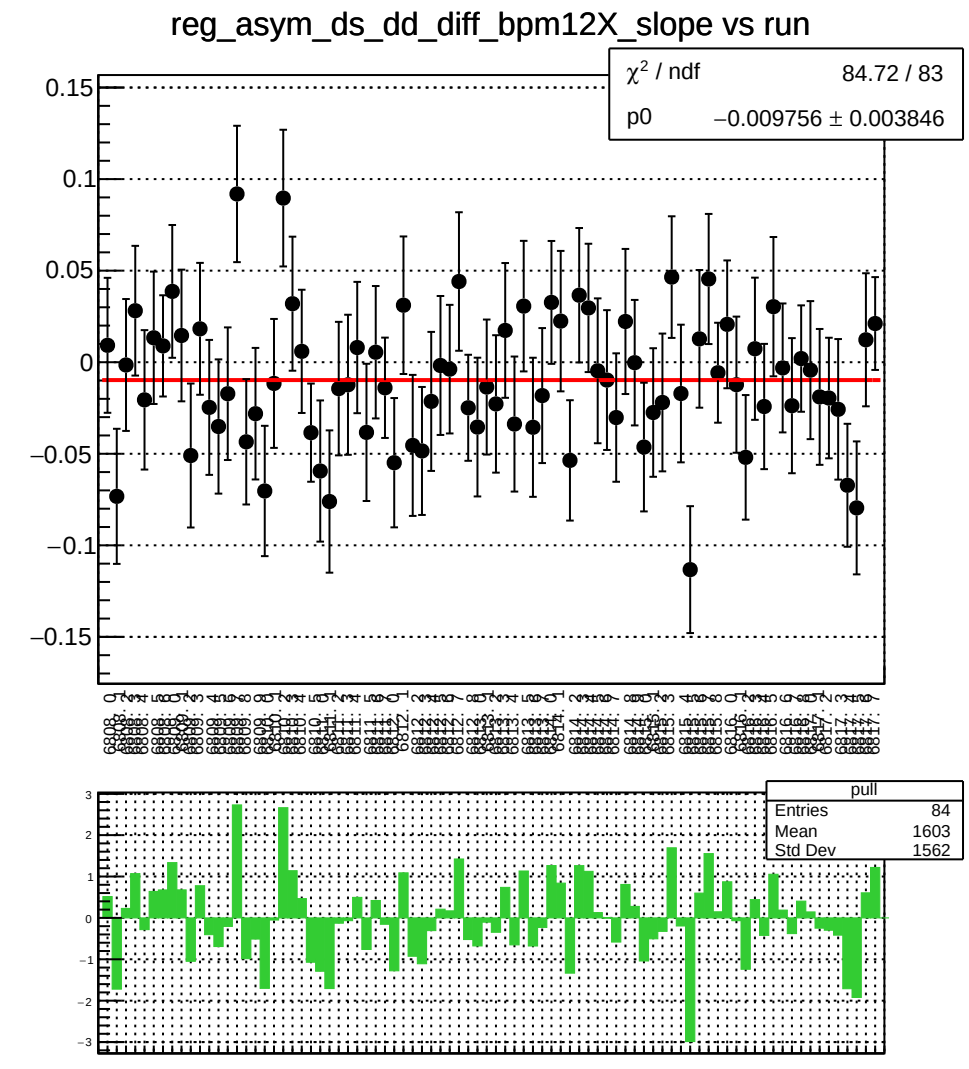

pull1D
Entries 84
Mean −0.009088
Std Dev 0.9343

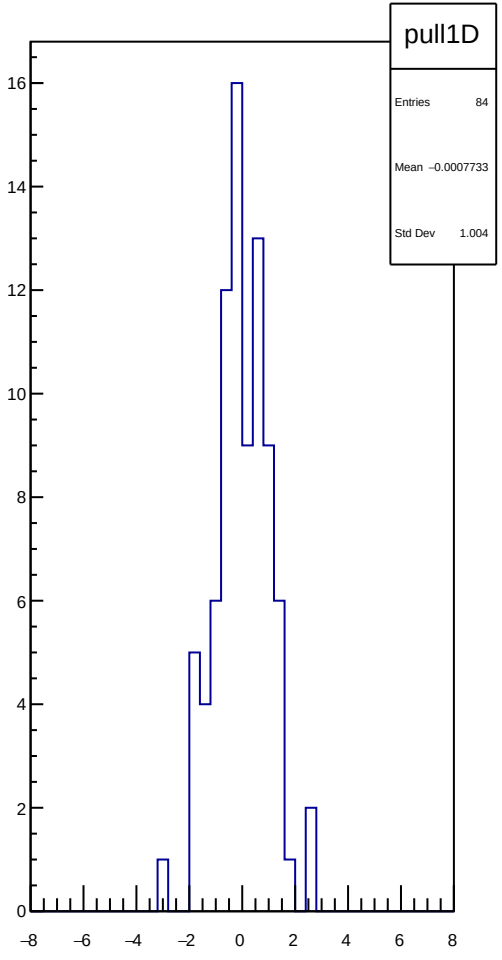

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.63 / 83
p0 −0.1134 ± 0.08864
pull
Entries 84
Mean −12.95
Std Dev 38.13

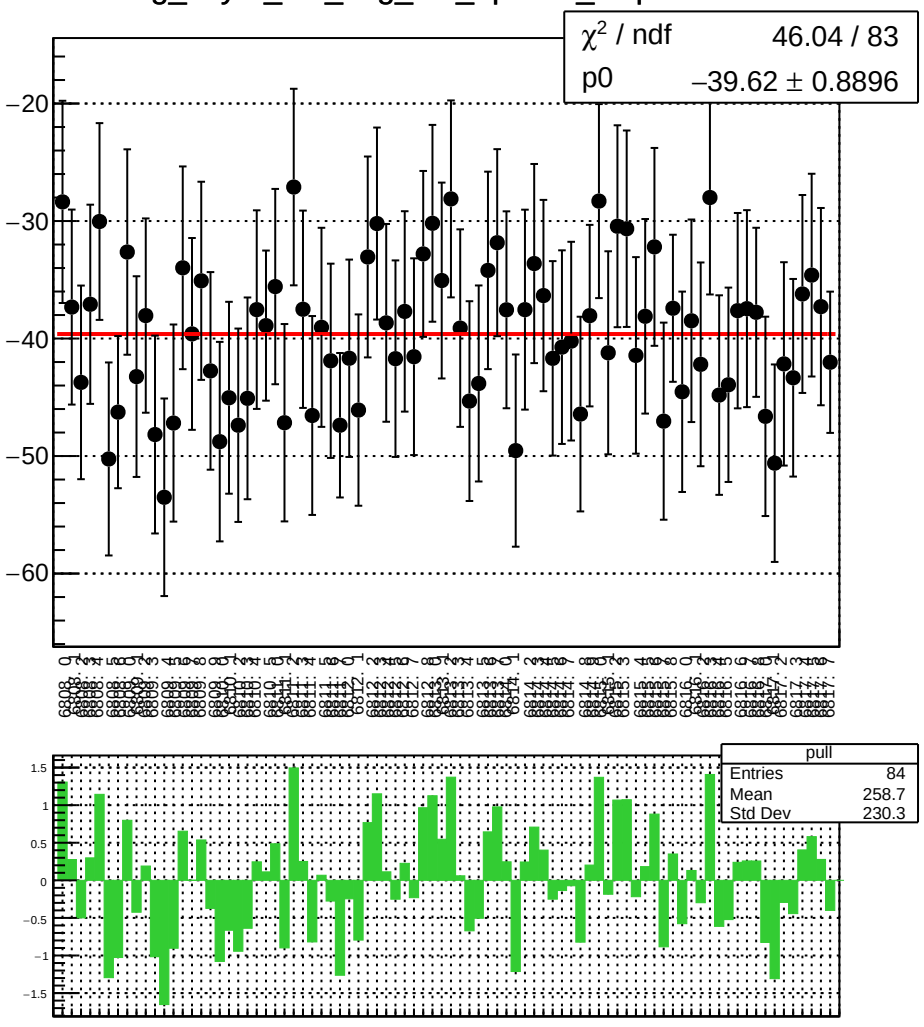

pull1D
Entries 84
Mean −0.007071
Std Dev 0.9298

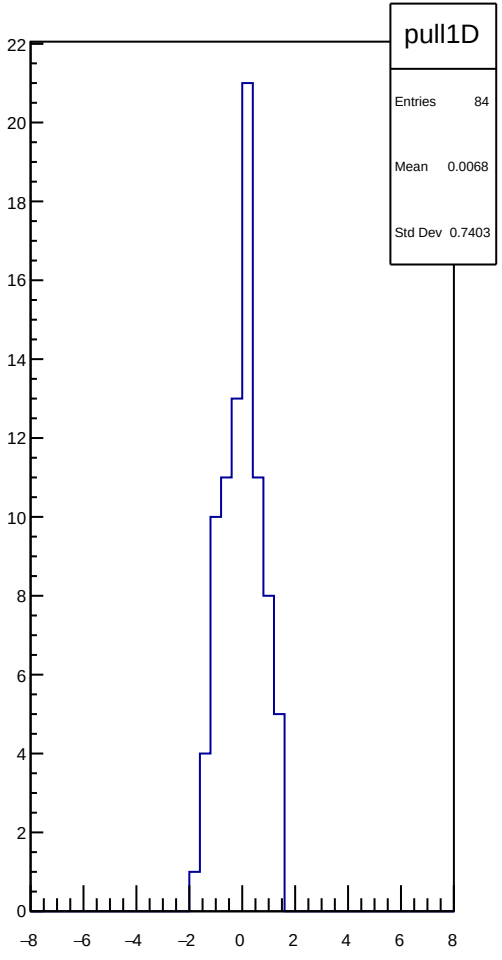

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.26 / 83
p0 0.09168 ± 0.07357
pull
Entries 84
Mean 168
Std Dev 208.3

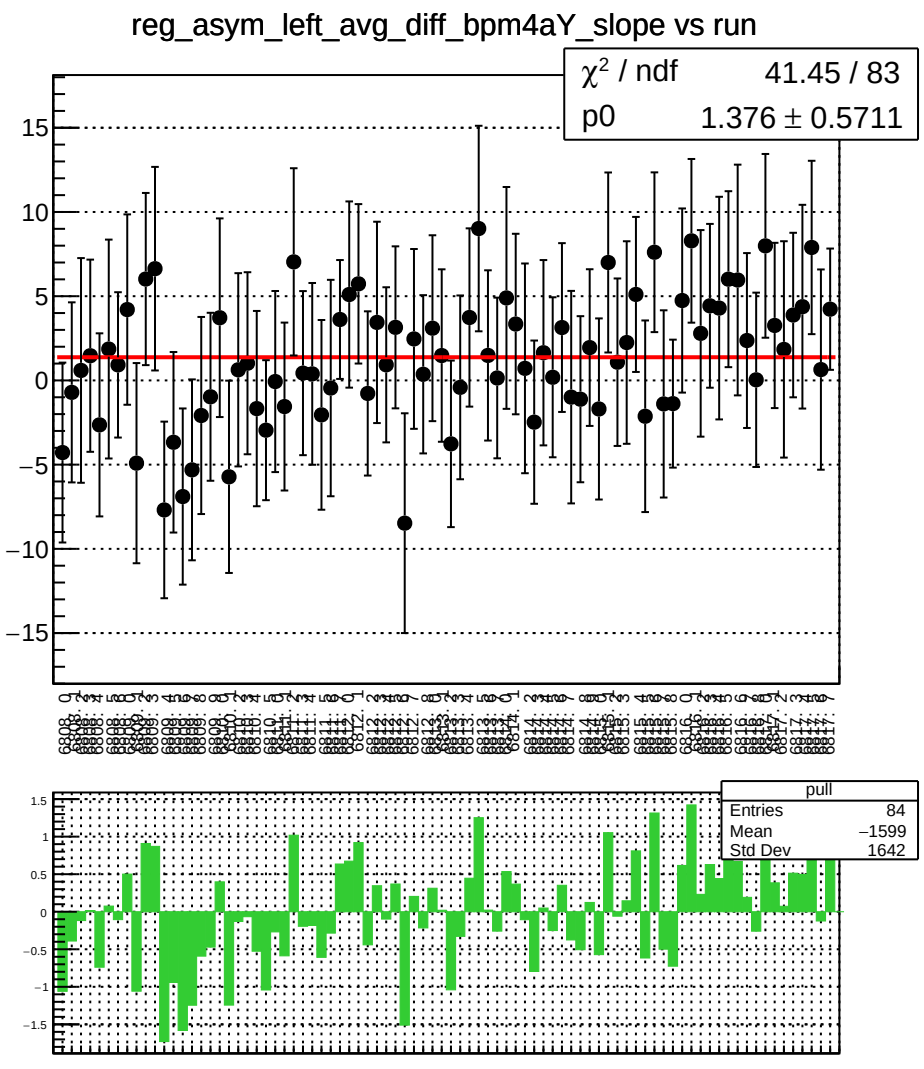

pull1D
Entries 84
Mean 0.005396
Std Dev 0.9211

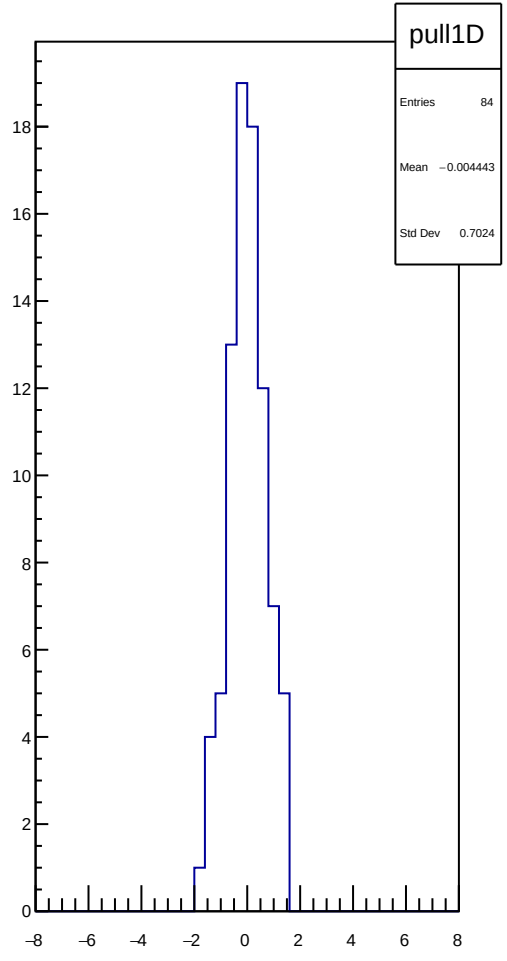

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 84.72 / 83
p0 −0.009756 ± 0.003846
pull
Entries 84
Mean 1603
Std Dev 1562

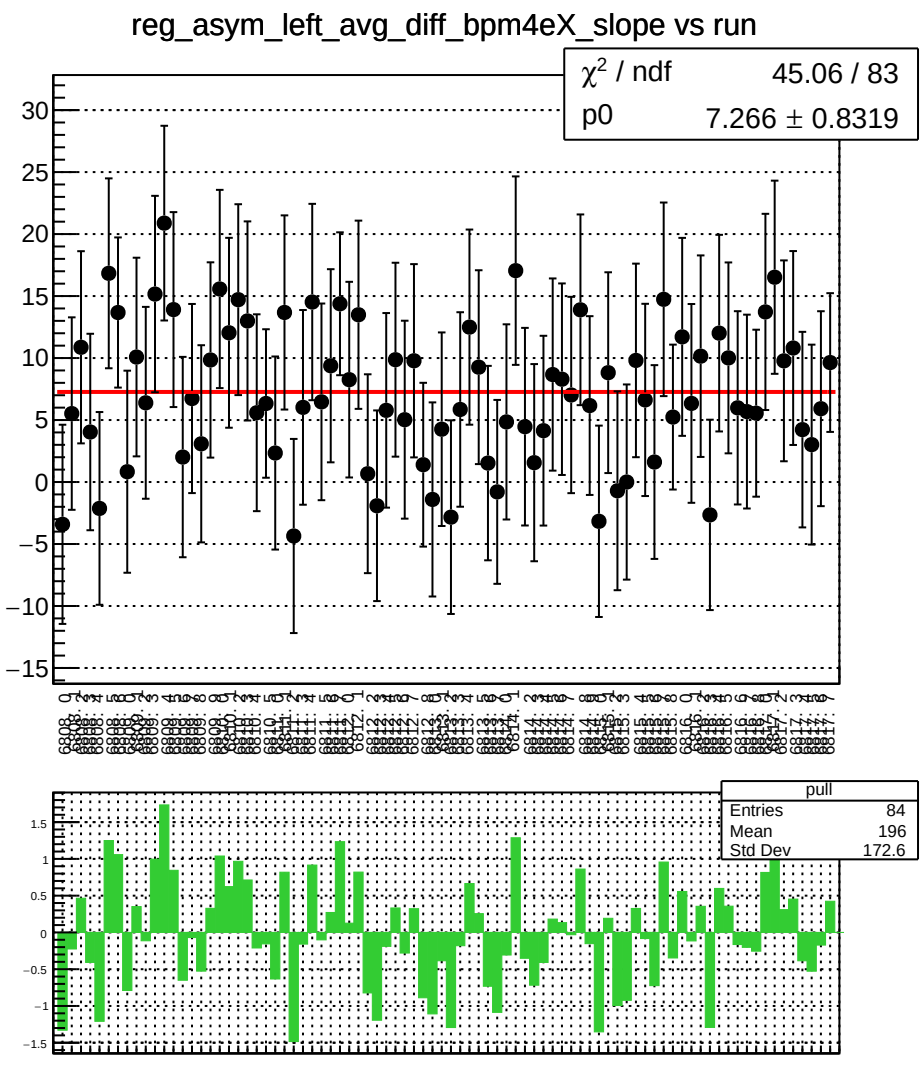

pull1D
Entries 84
Mean −0.0007733
Std Dev 1.004

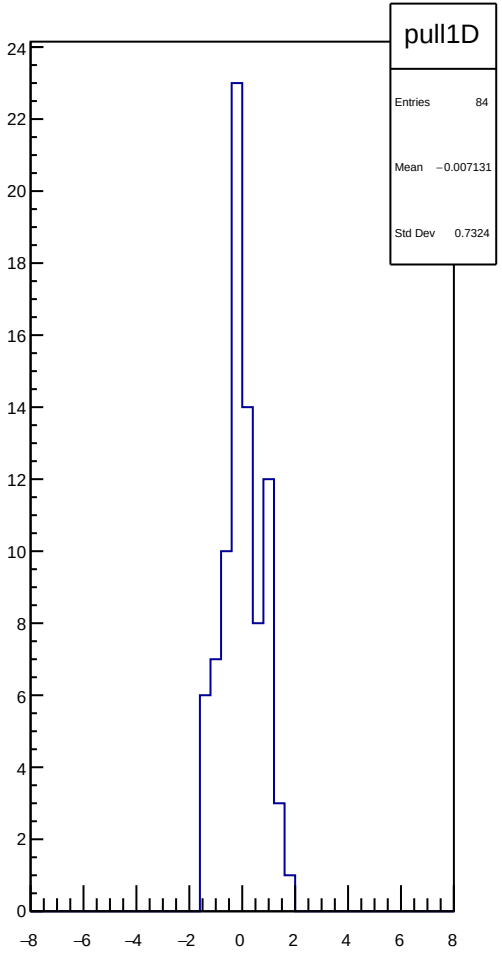

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 46.04 / 83
p0 −39.62 ± 0.8896
pull
Entries 84
Mean 258.7
Std Dev 230.3

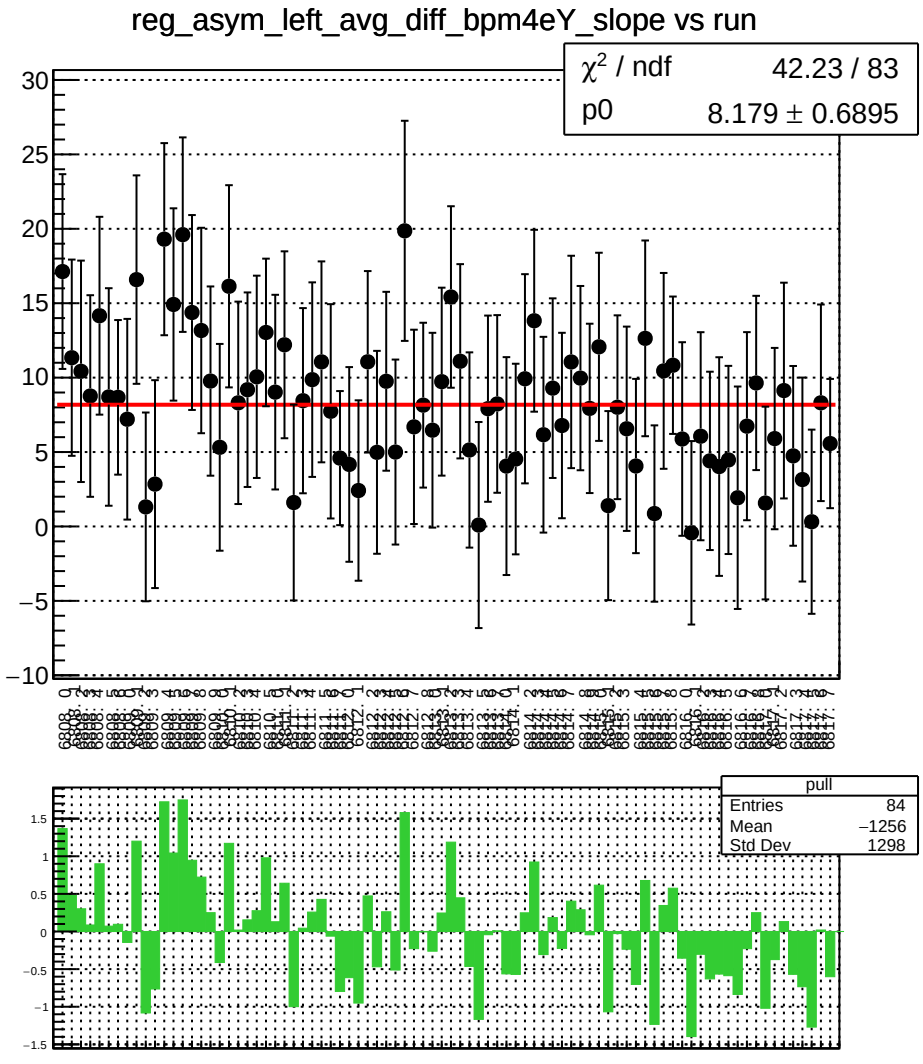

pull1D
Entries 84
Mean 0.0068
Std Dev 0.7403

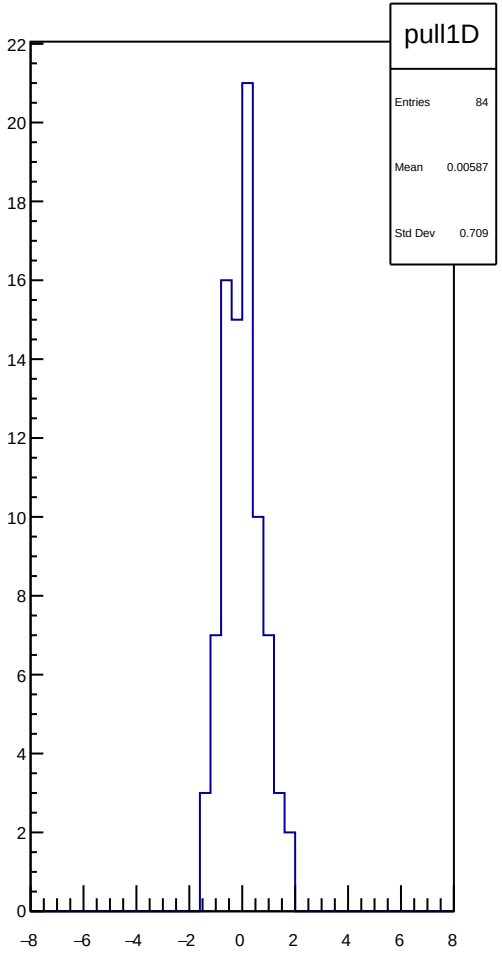

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.45 / 83
p0 1.376 ± 0.5711
pull
Entries 84
Mean −1599
Std Dev 1642

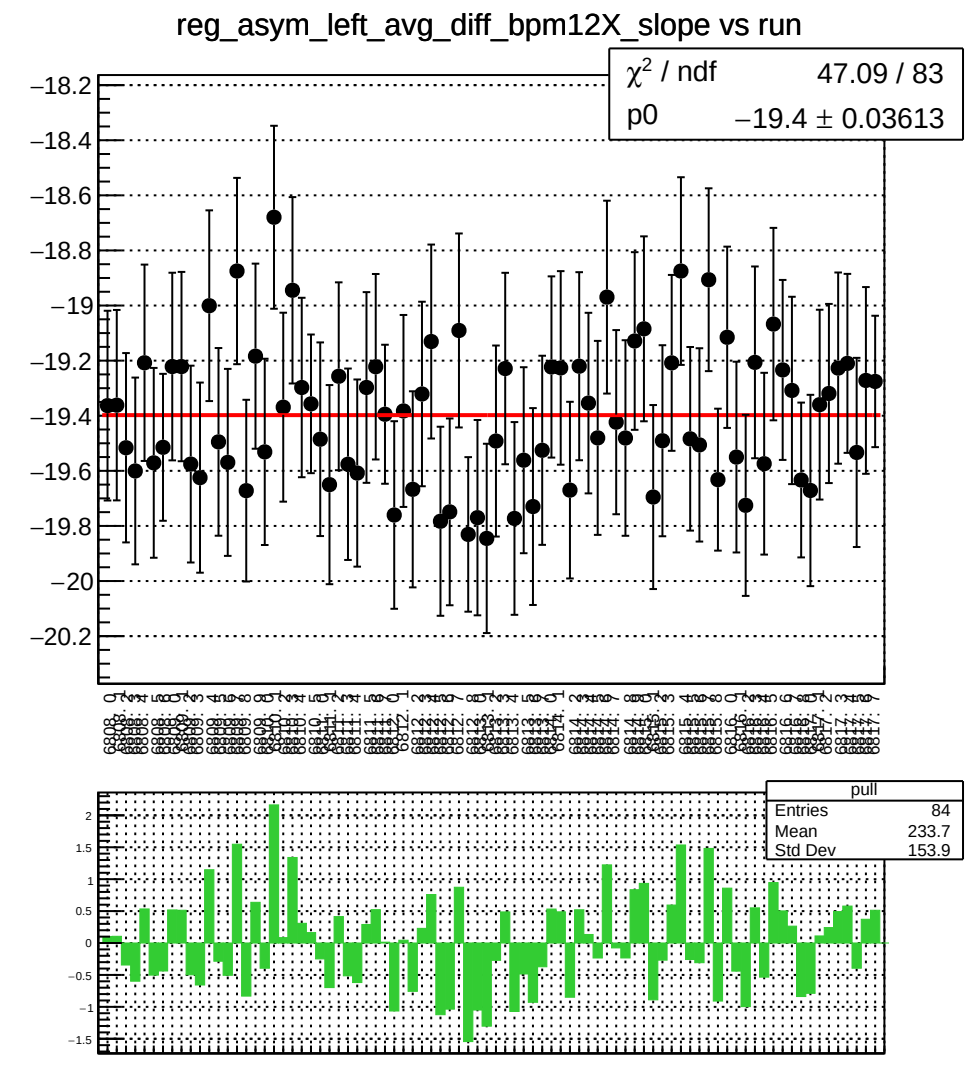

pull1D
Entries 84
Mean −0.004443
Std Dev 0.7024

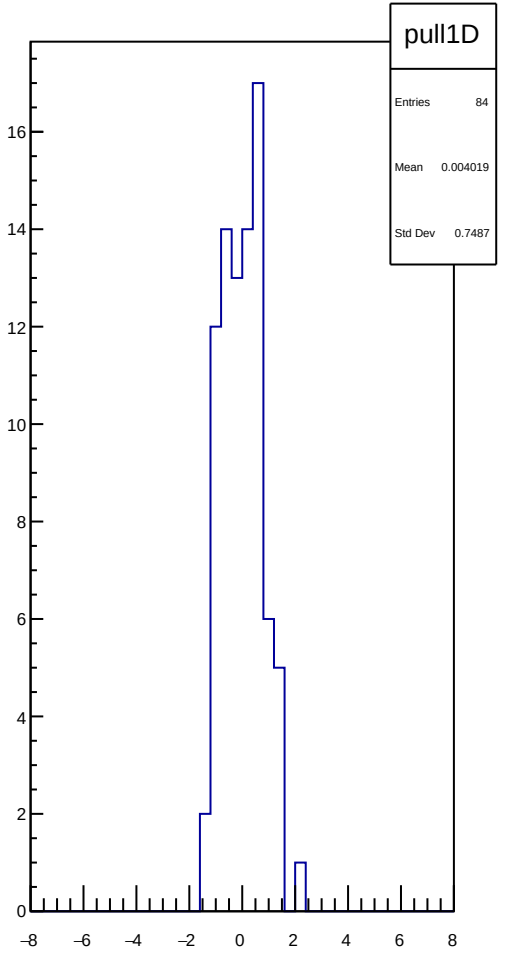

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.06 / 83
p0 7.266 ± 0.8319
pull
Entries 84
Mean 196
Std Dev 172.6

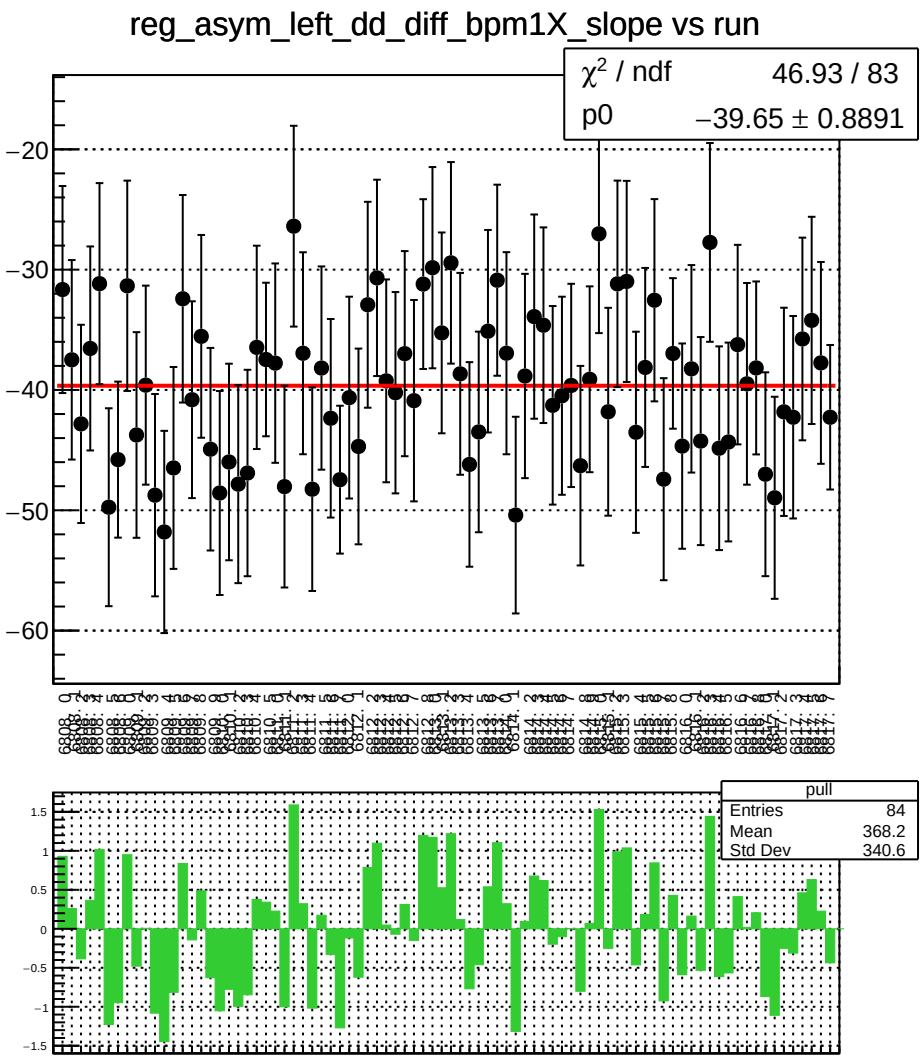

pull1D
Entries 84
Mean −0.007131
Std Dev 0.7324

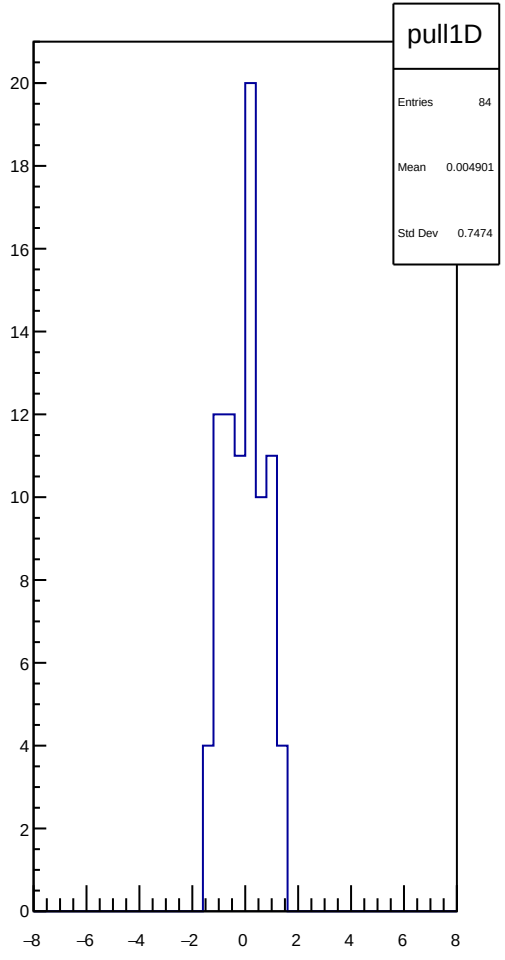

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.23 / 83
p0 8.179 ± 0.6895
pull
Entries 84
Mean −1256
Std Dev 1298

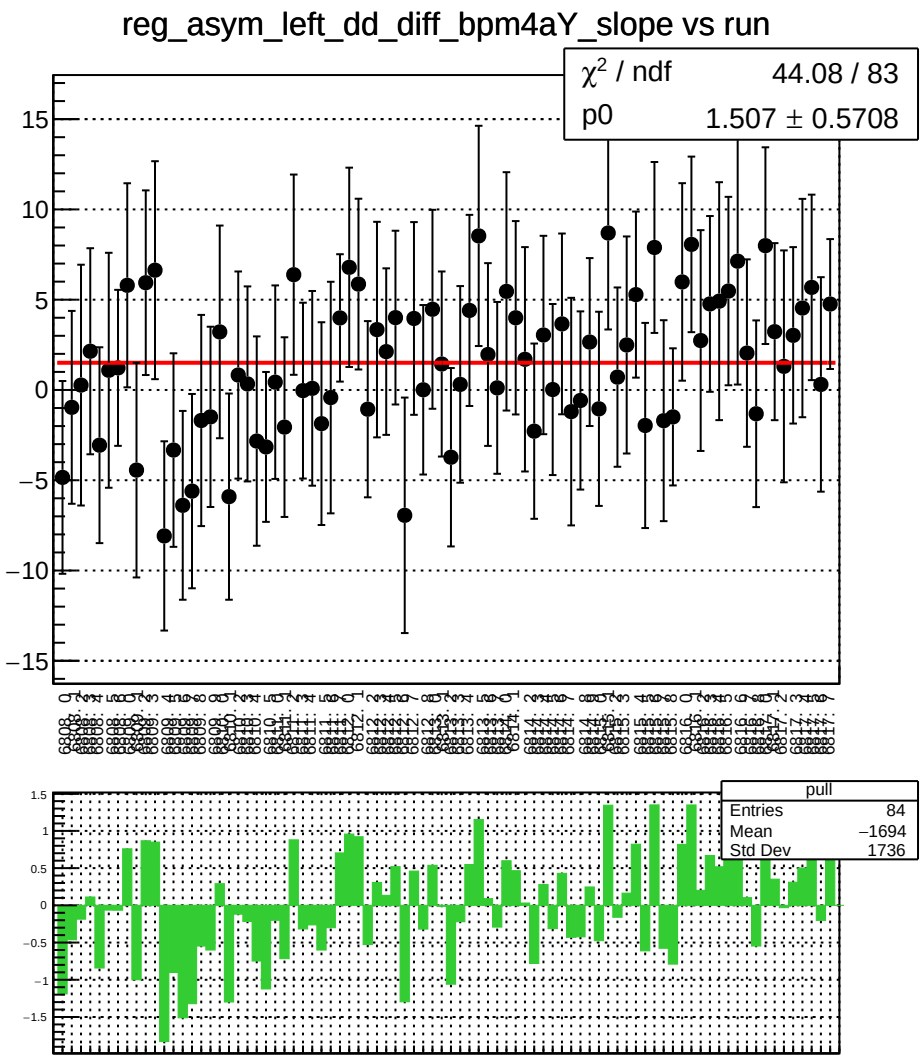

pull1D
Entries 84
Mean 0.00587
Std Dev 0.709

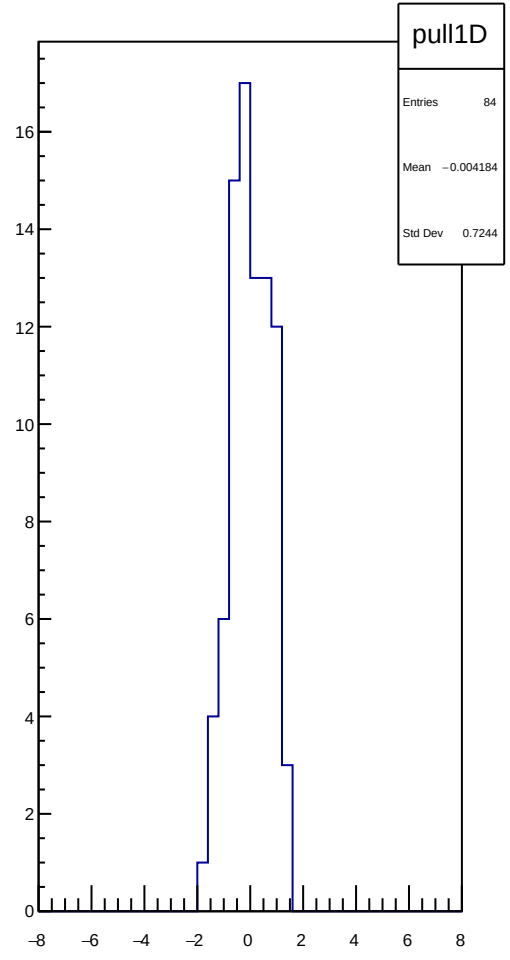

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 47.09 / 83
p0 −19.4 ± 0.03613
−18.2
−18.4
−18.6
−18.8
−19
−19.2
−19.4
−19.6
−19.8
−20
−20.2
pull
Entries 84
Mean 233.7
Std Dev 153.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

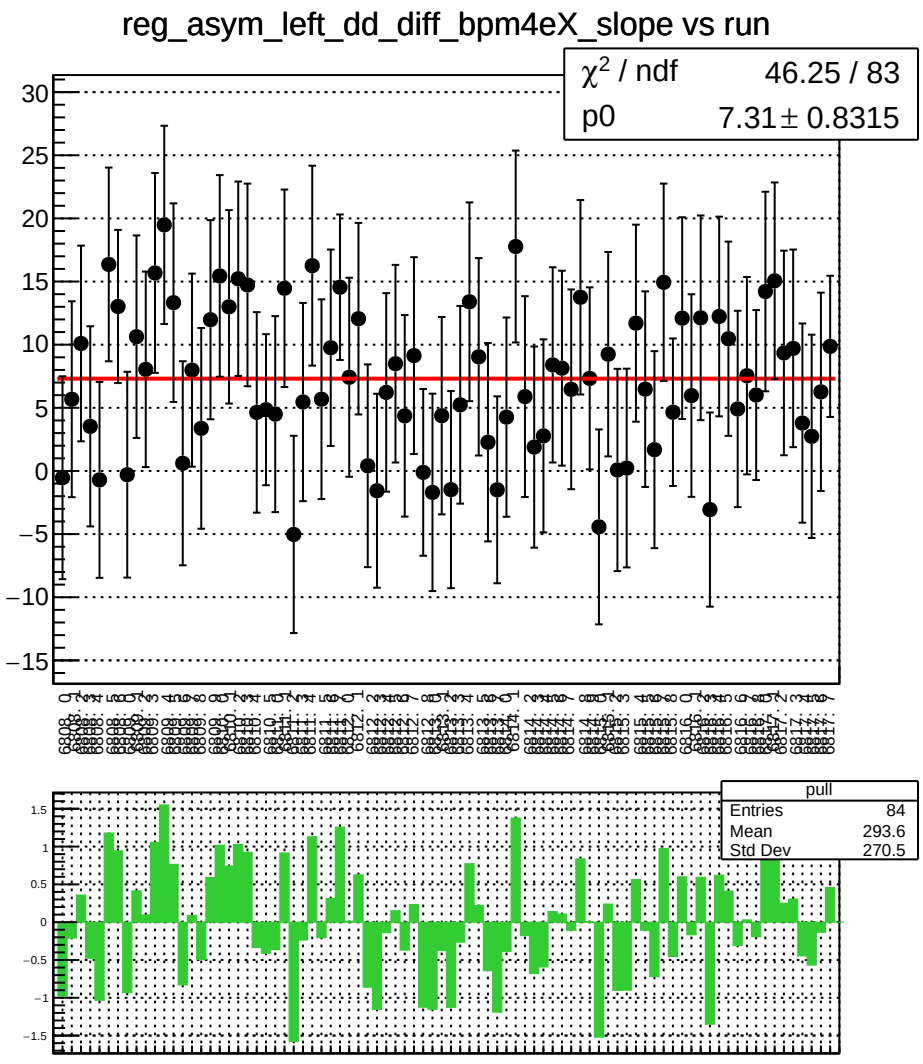

pull1D
Entries 84
Mean 0.004019
Std Dev 0.7487
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

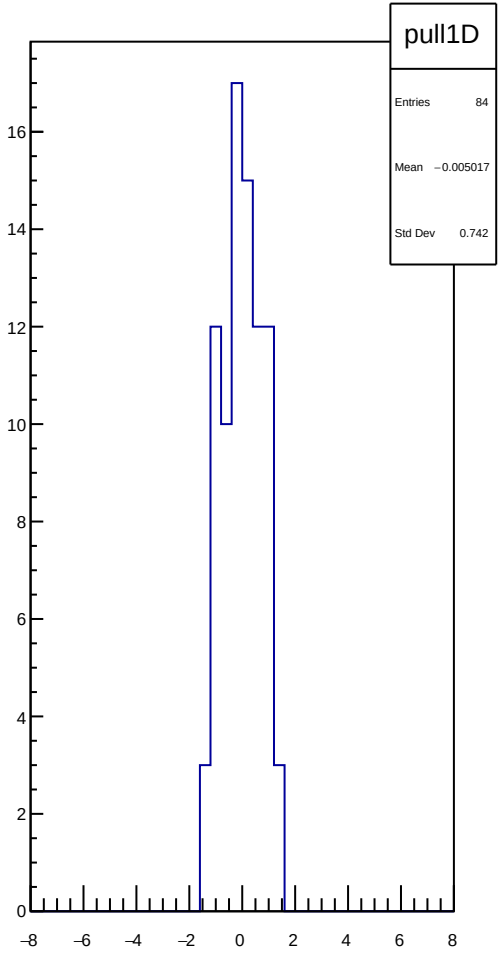

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 46.93 / 83
p0 −39.65 ± 0.8891
pull
Entries 84
Mean 368.2
Std Dev 340.6

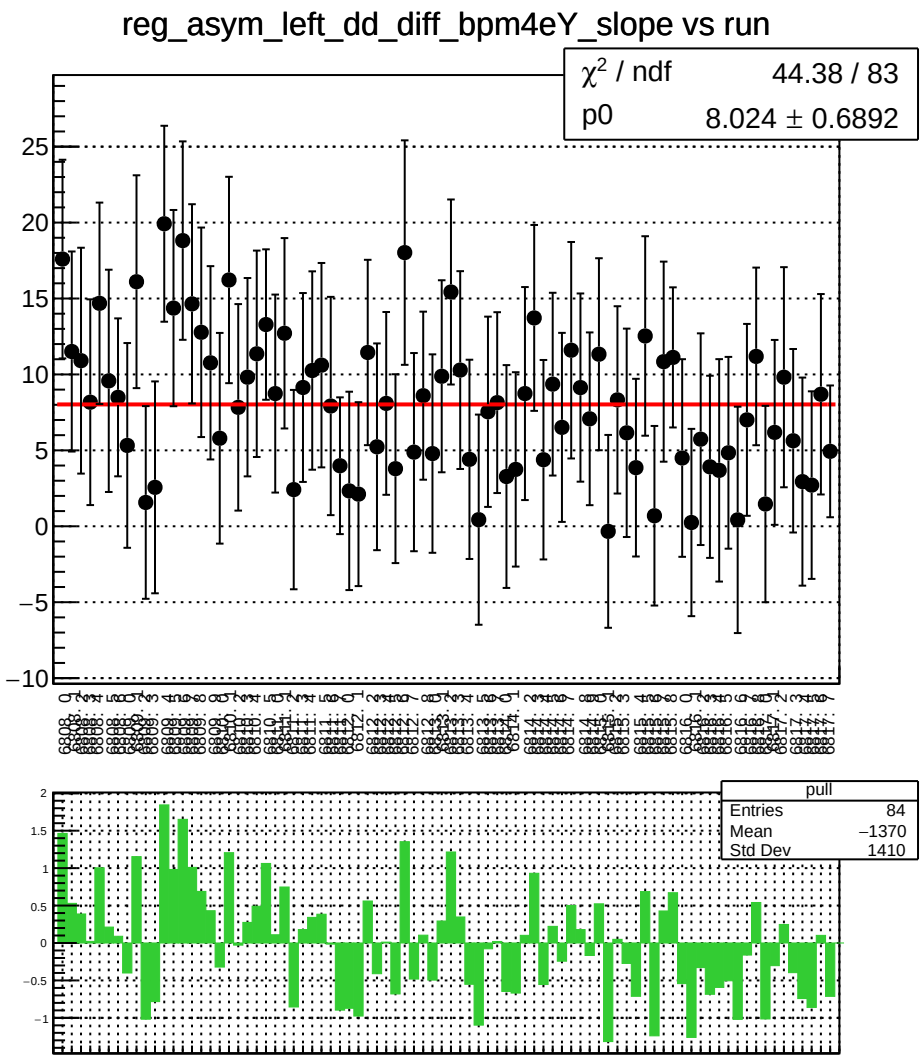

pull1D
Entries 84
Mean 0.004901
Std Dev 0.7474

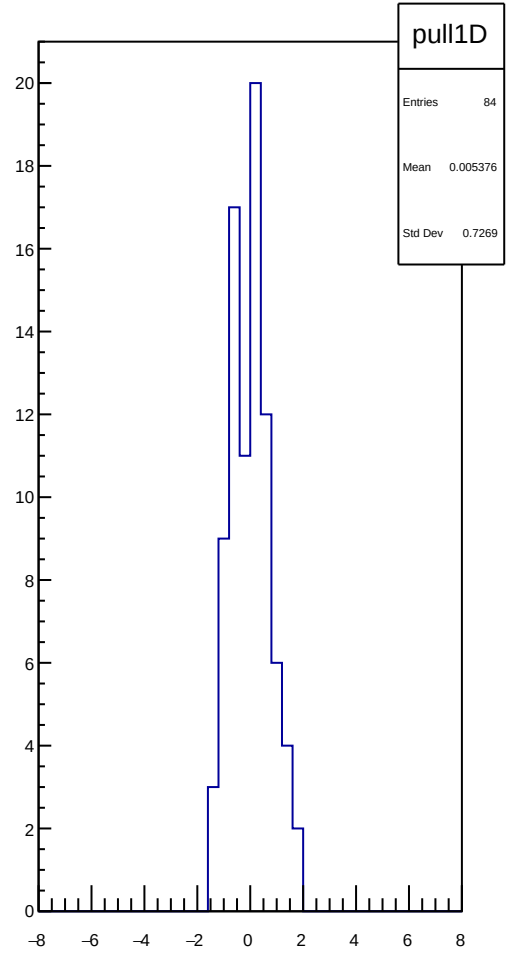

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.08 / 83
p0 1.507 ± 0.5708
pull
Entries 84
Mean −1694
Std Dev 1736

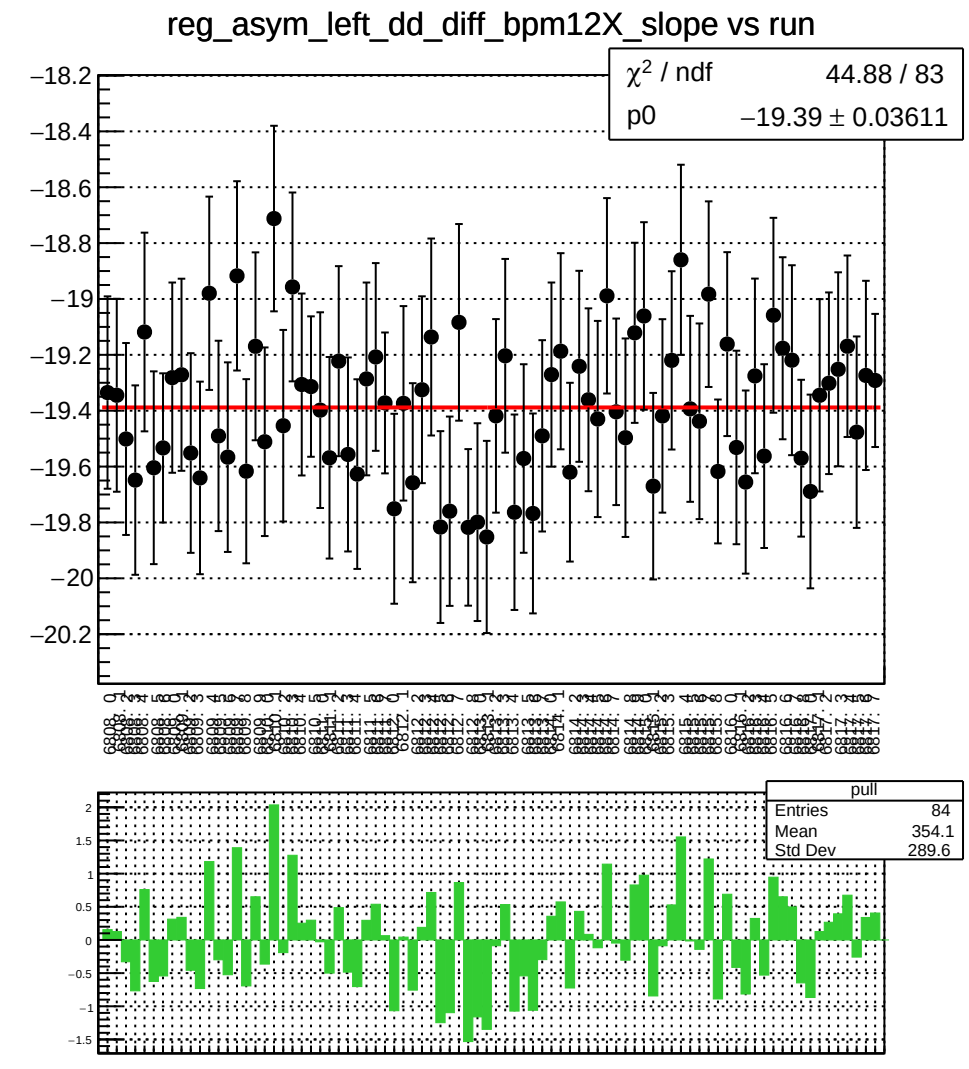

pull1D
Entries 84
Mean −0.004184
Std Dev 0.7244

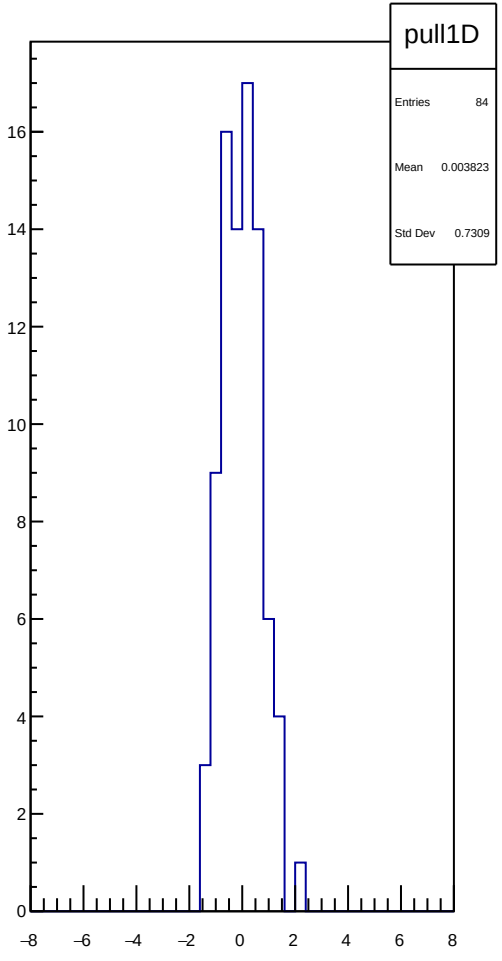

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.25 / 83
p0 7.31 ± 0.8315
pull
Entries 84
Mean 293.6
Std Dev 270.5

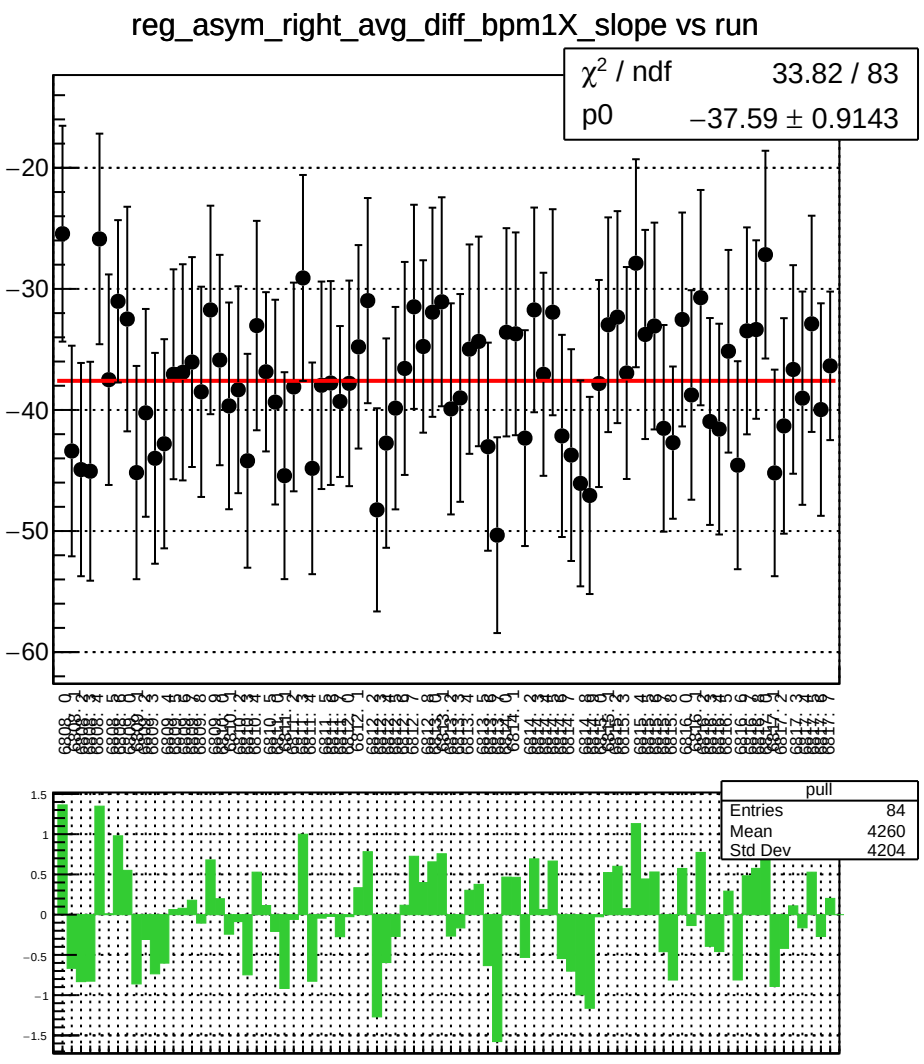

pull1D
Entries 84
Mean −0.005017
Std Dev 0.742

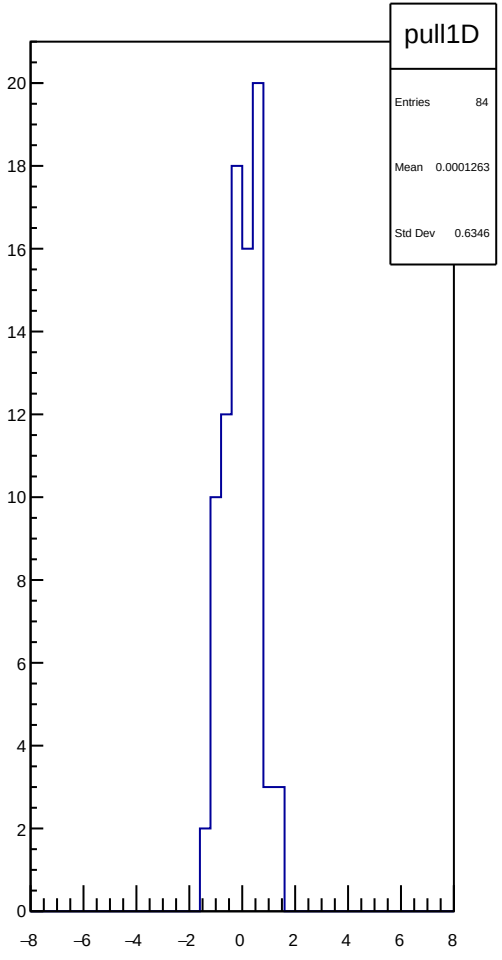

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 44.38 / 83
p0 8.024 ± 0.6892
pull
Entries 84
Mean −1370
Std Dev 1410

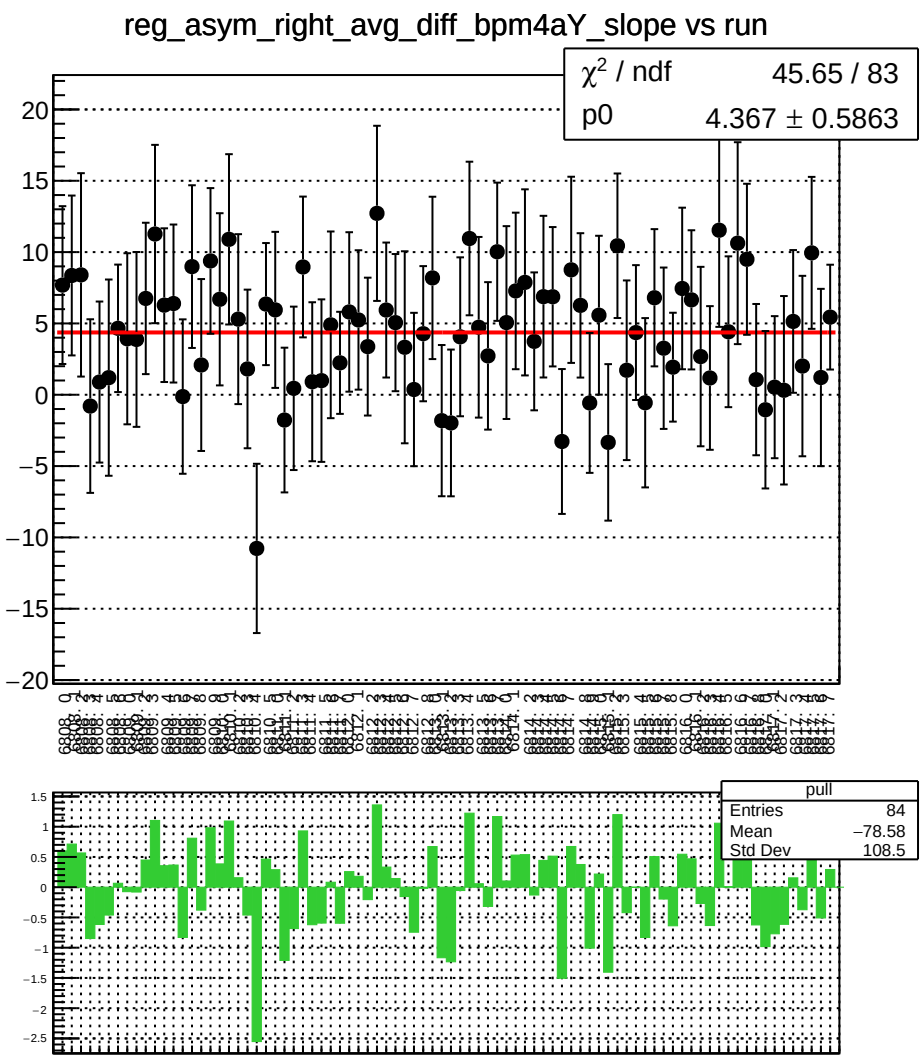

pull1D
Entries 84
Mean 0.005376
Std Dev 0.7269

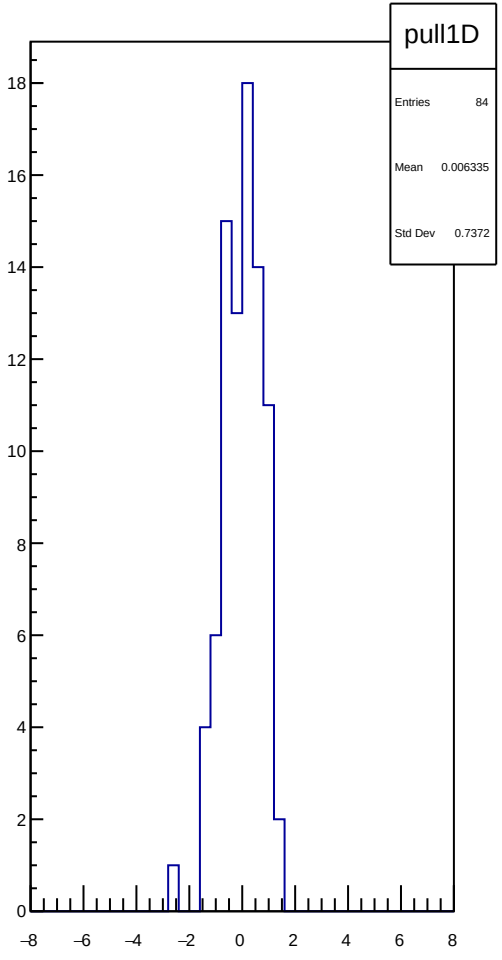

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 44.88 / 83
p0 −19.39 ± 0.03611
pull
Entries 84
Mean 354.1
Std Dev 289.6

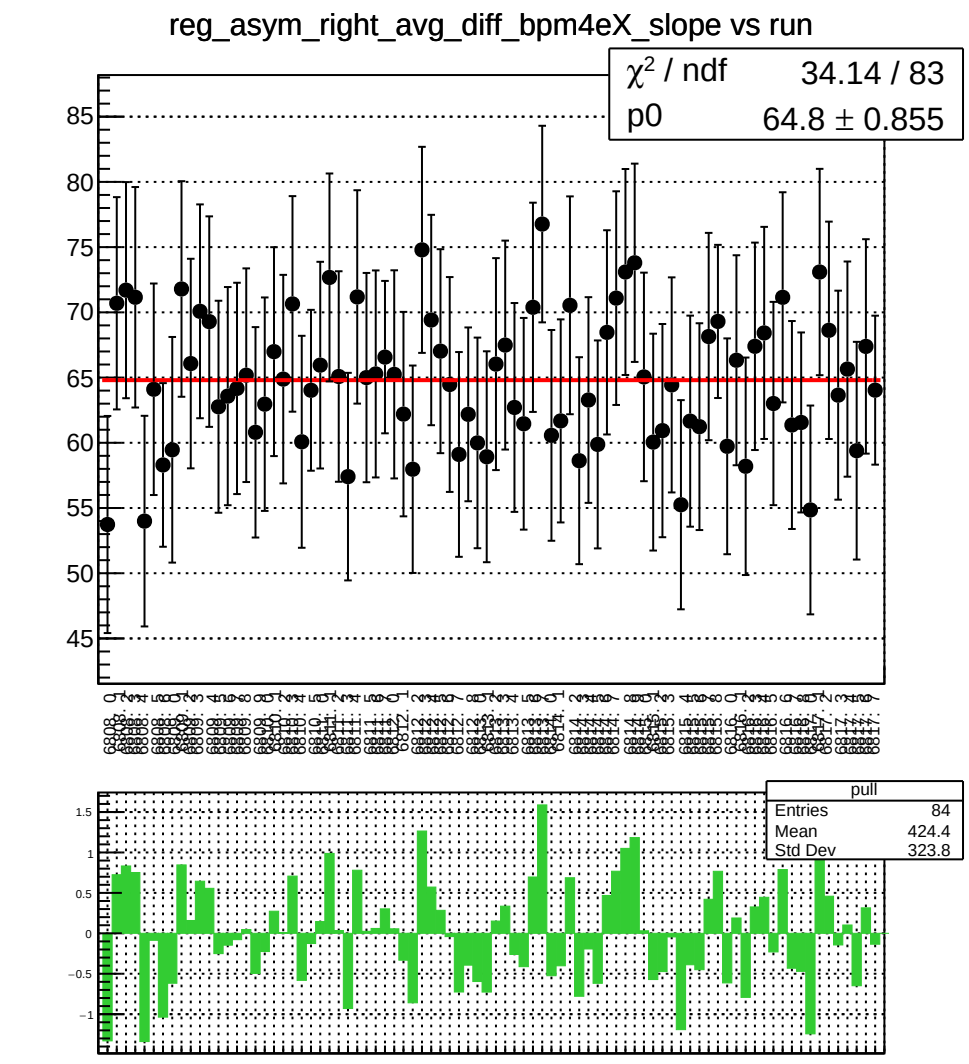

pull1D
Entries 84
Mean 0.003823
Std Dev 0.7309

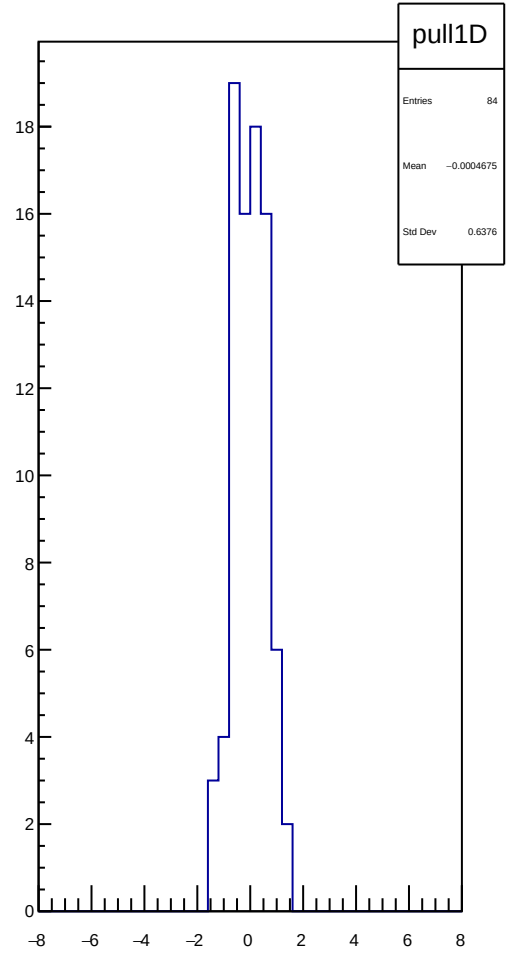

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 33.82 / 83
p0 −37.59 ± 0.9143
pull
Entries 84
Mean 4260
Std Dev 4204

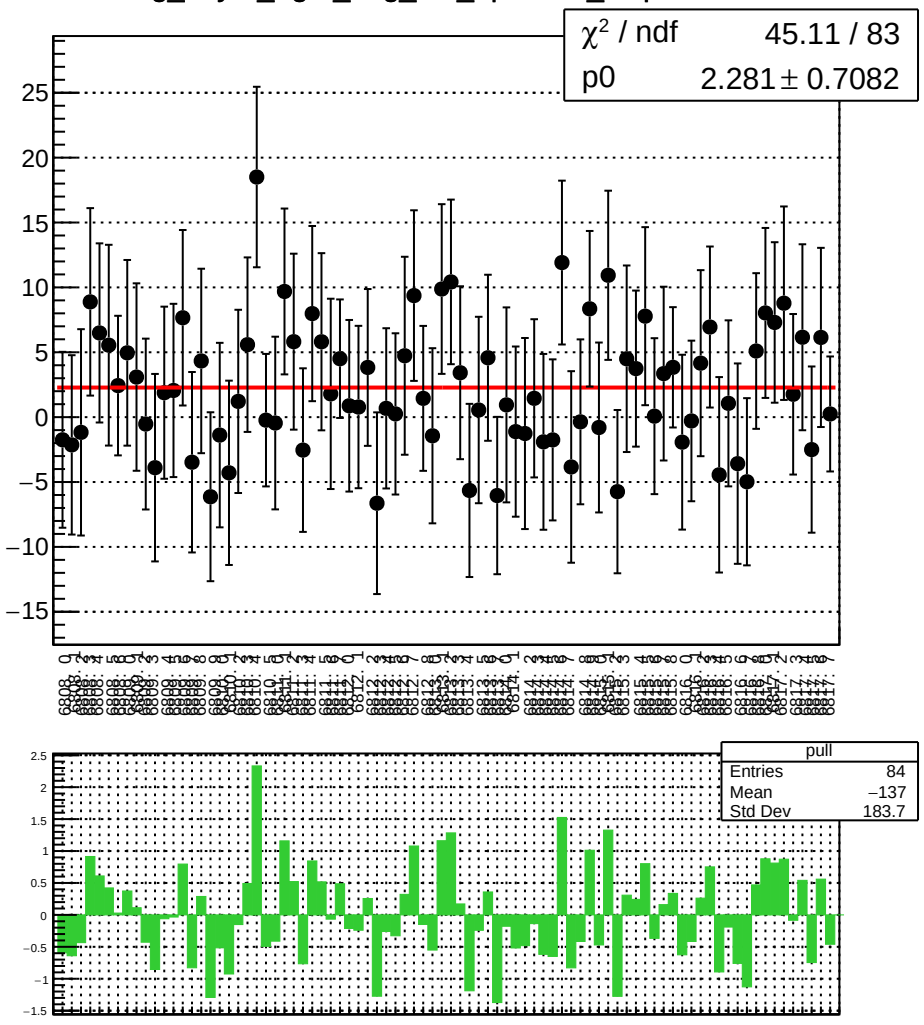

pull1D
Entries 84
Mean 0.0001263
Std Dev 0.6346

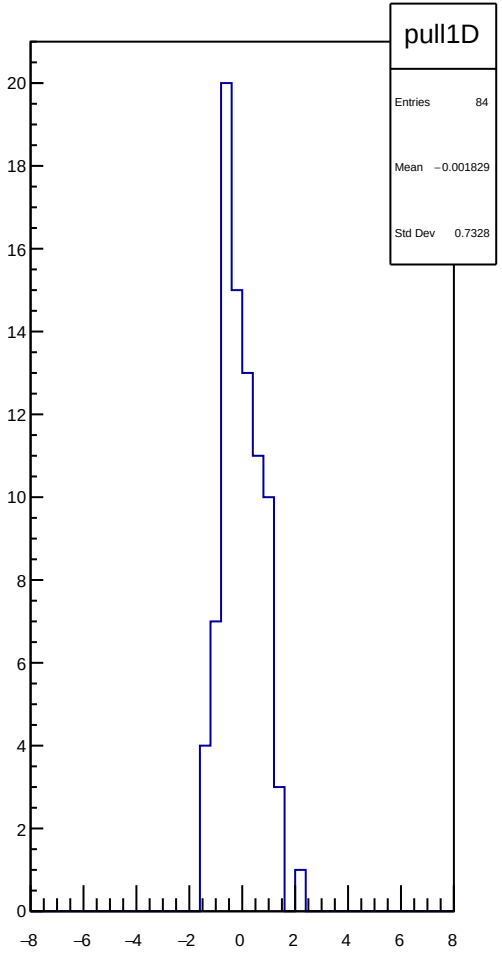

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.65 / 83
p0 4.367 ± 0.5863
pull
Entries 84
Mean −78.58
Std Dev 108.5

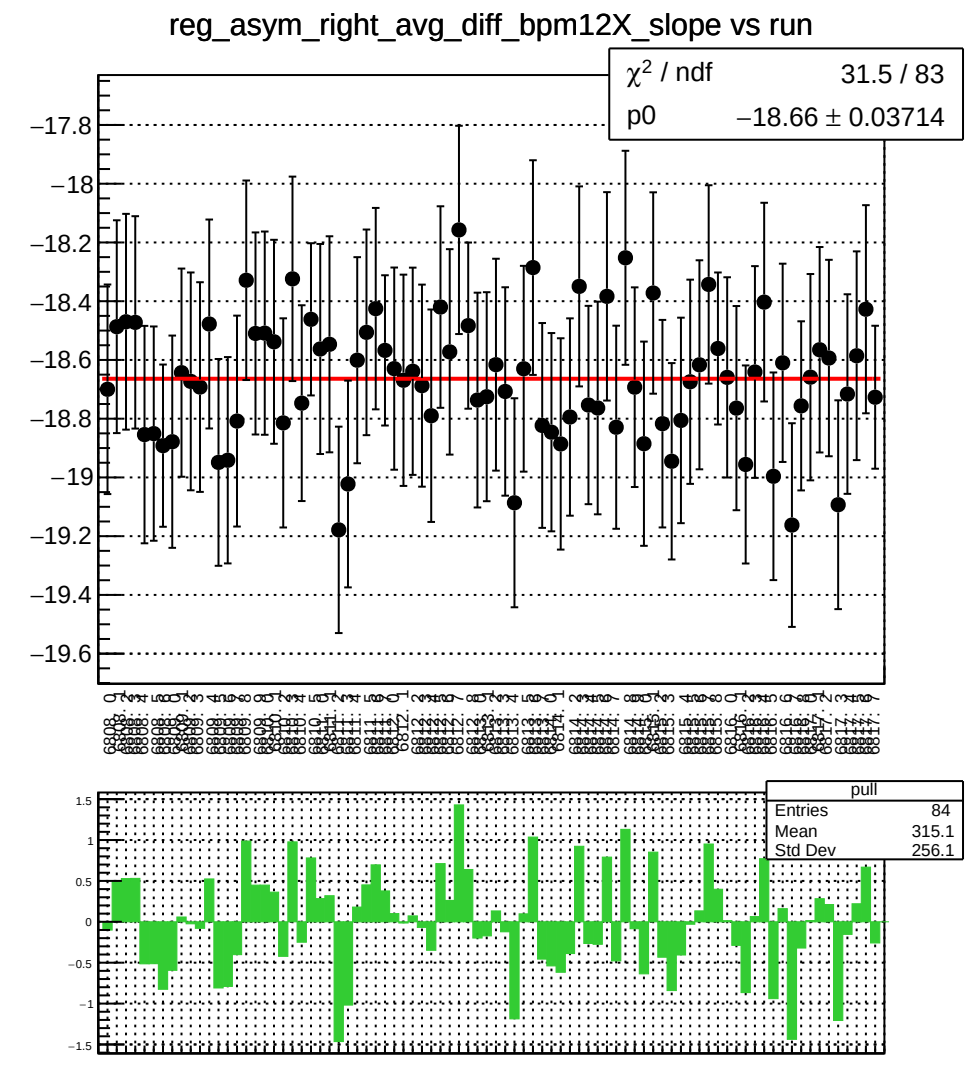

pull1D
Entries 84
Mean 0.006335
Std Dev 0.7372

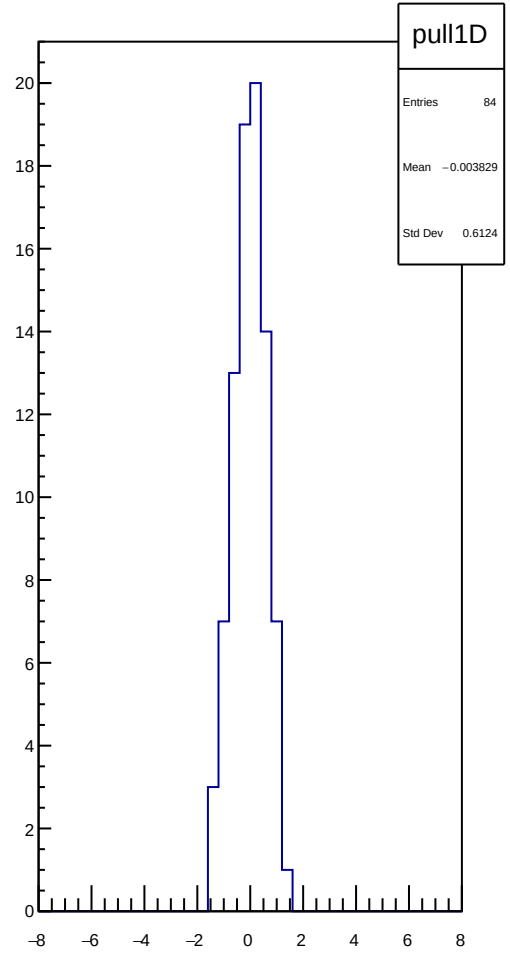

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.14 / 83
p0 64.8 ± 0.855
pull
Entries 84
Mean 424.4
Std Dev 323.8

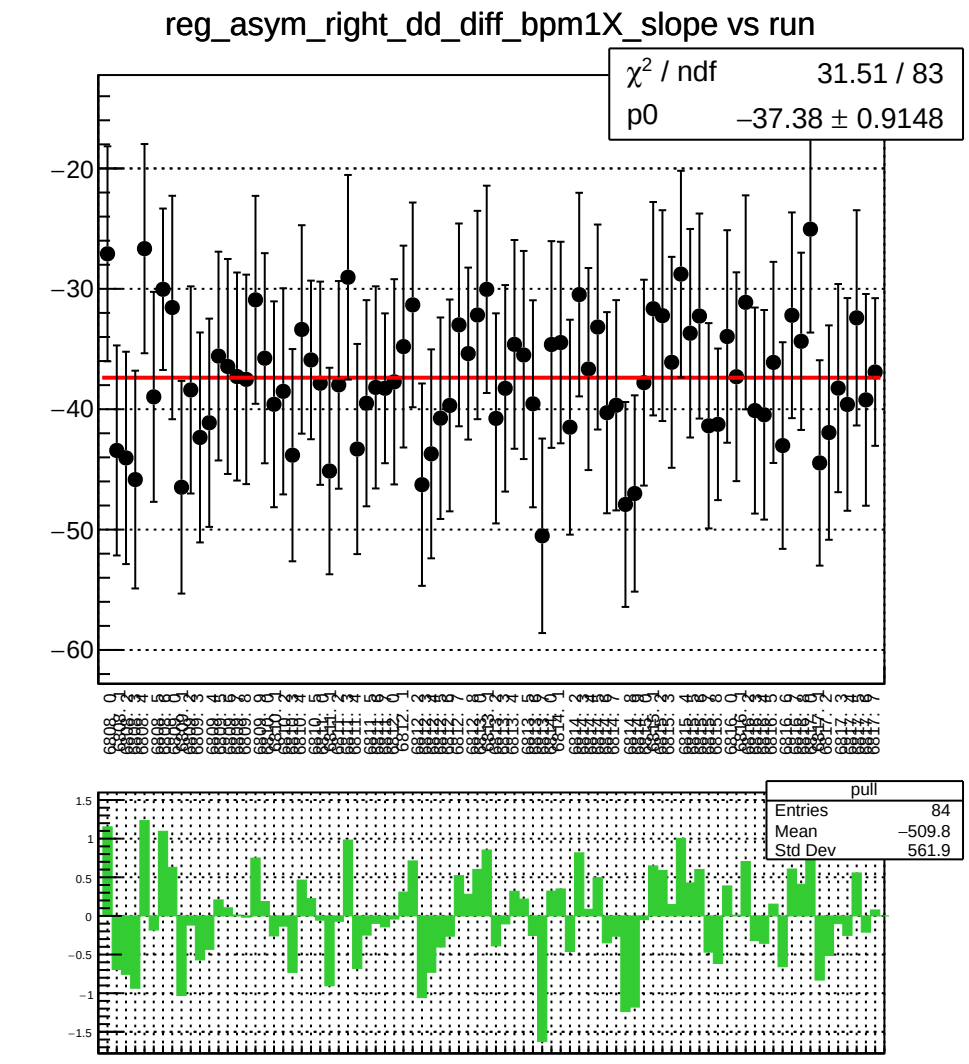

pull1D
Entries 84
Mean −0.0004675
Std Dev 0.6376

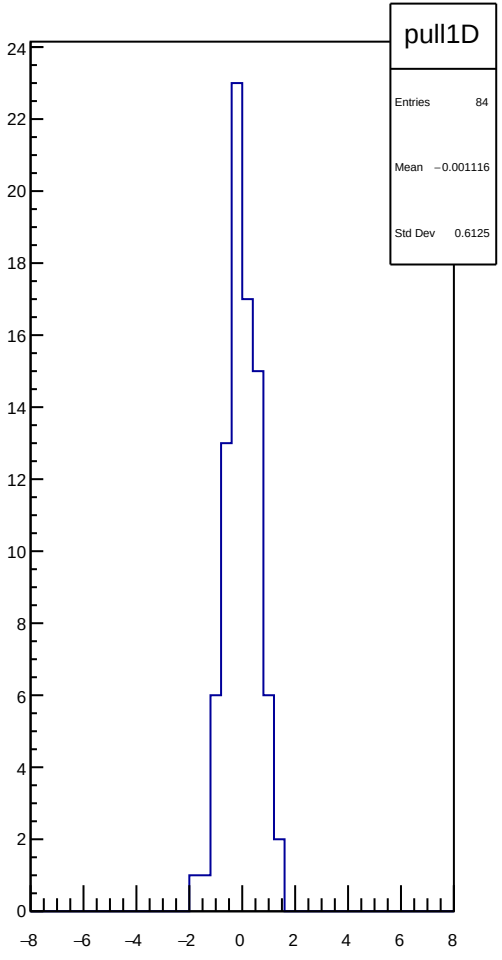

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 45.11 / 83
p0 2.281 ± 0.7082
pull
Entries 84
Mean −137
Std Dev 183.7

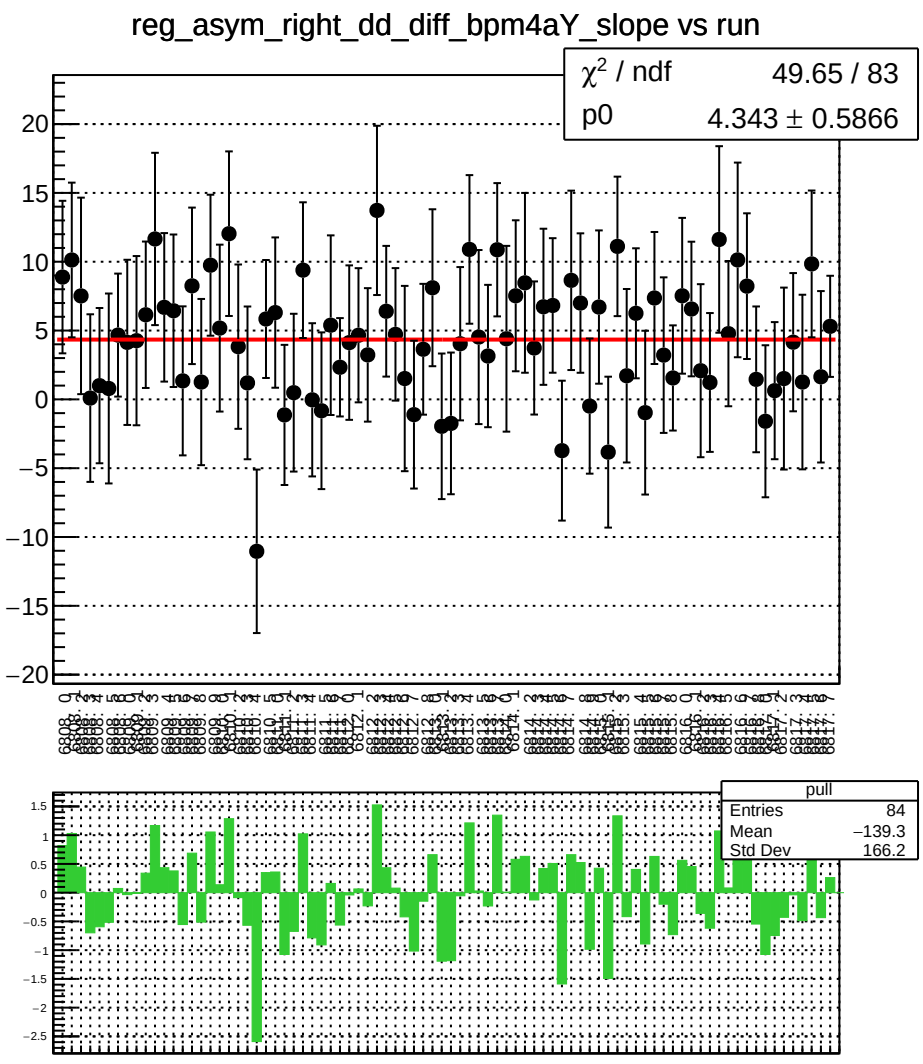

pull1D
Entries 84
Mean −0.001829
Std Dev 0.7328

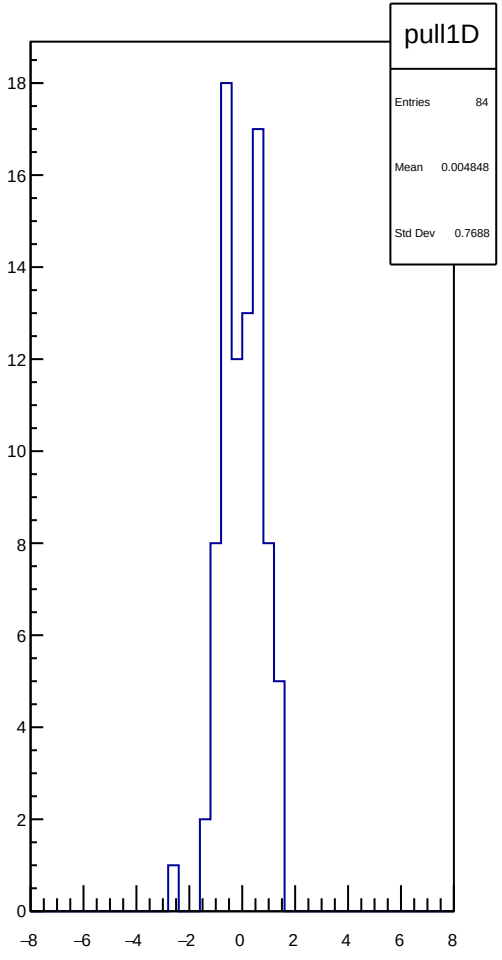

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 31.5 / 83
p0 −18.66 ± 0.03714
pull
Entries 84
Mean 315.1
Std Dev 256.1

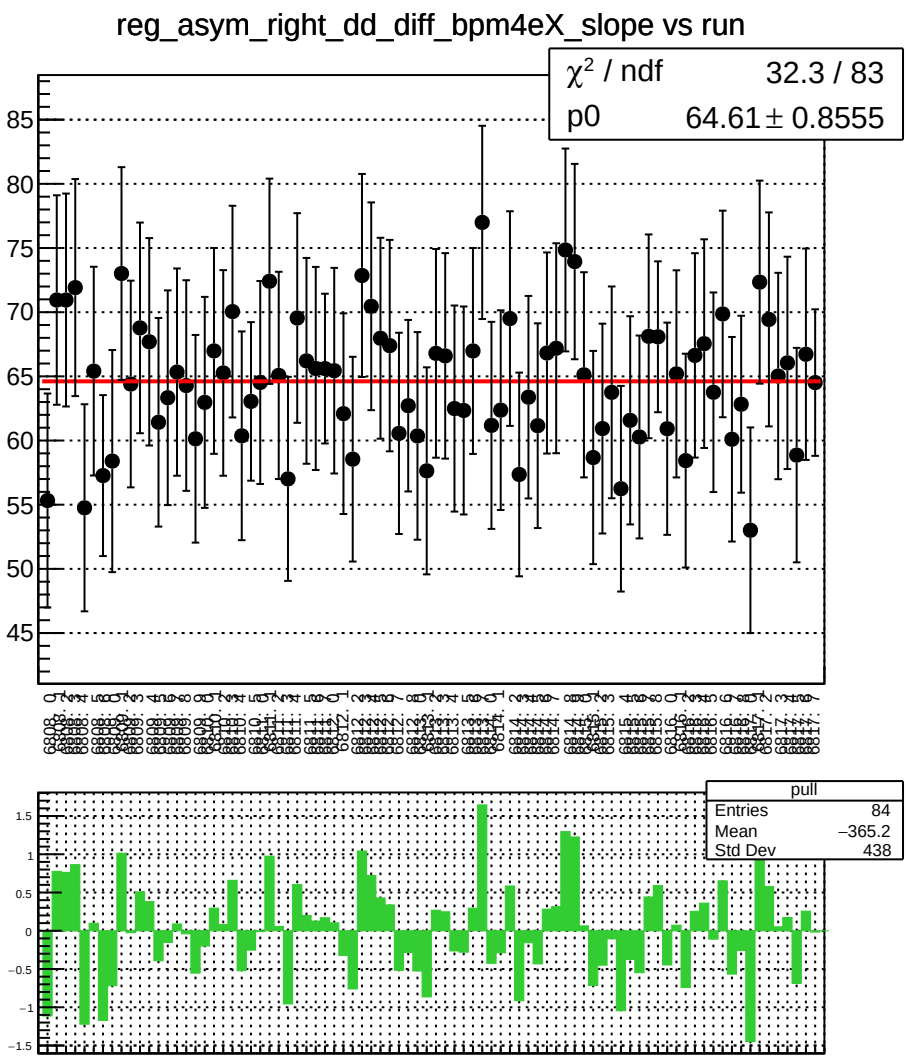

pull1D
Entries 84
Mean −0.003829
Std Dev 0.6124

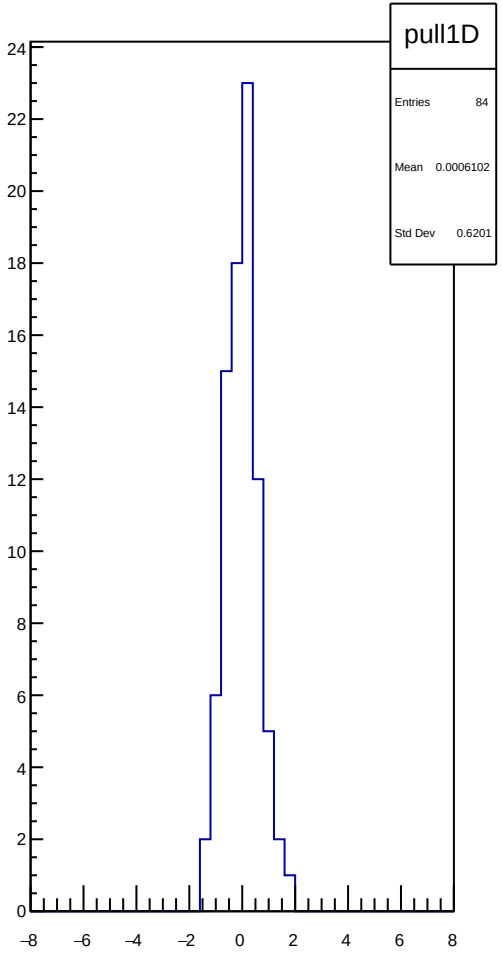

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 31.51 / 83
p0 −37.38 ± 0.9148
pull
Entries 84
Mean −509.8
Std Dev 561.9

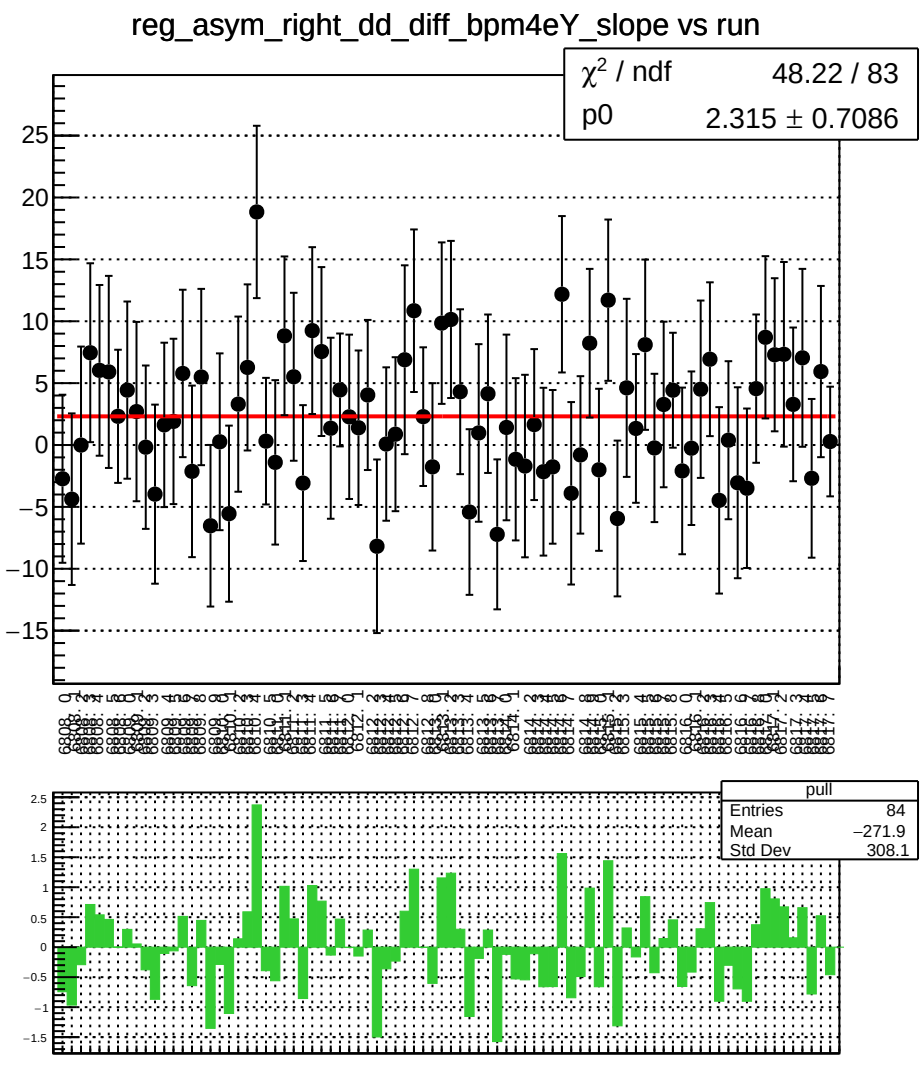

pull1D
Entries 84
Mean −0.001116
Std Dev 0.6125

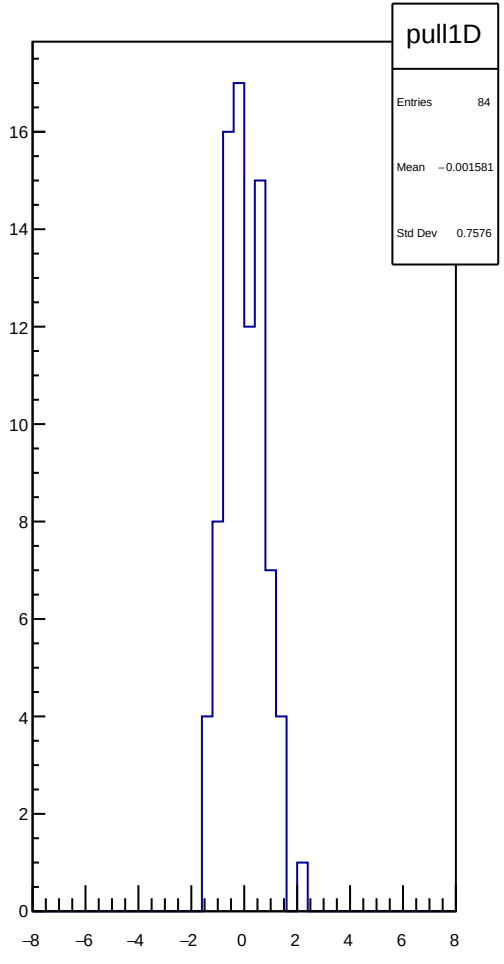

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.65 / 83
p0 4.343 ± 0.5866
pull
Entries 84
Mean −139.3
Std Dev 166.2

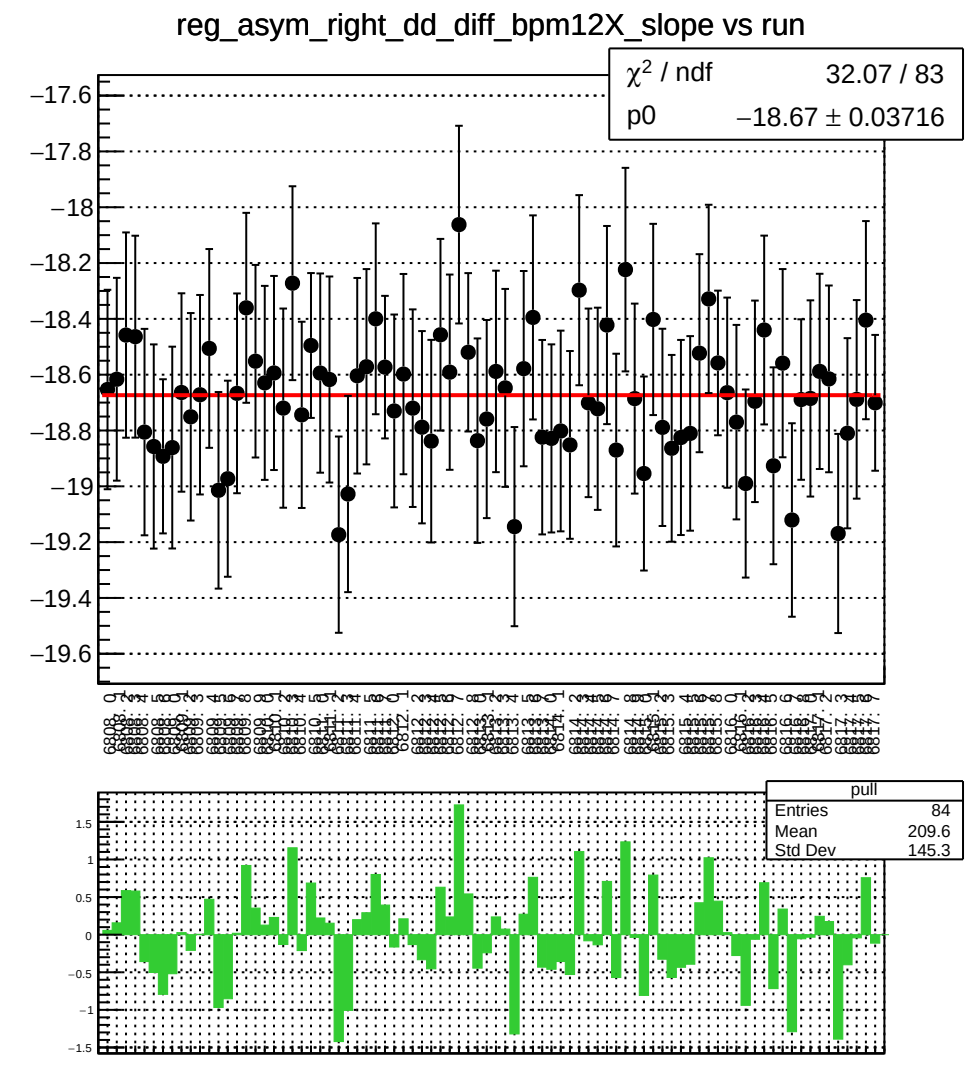

pull1D
Entries 84
Mean 0.004848
Std Dev 0.7688

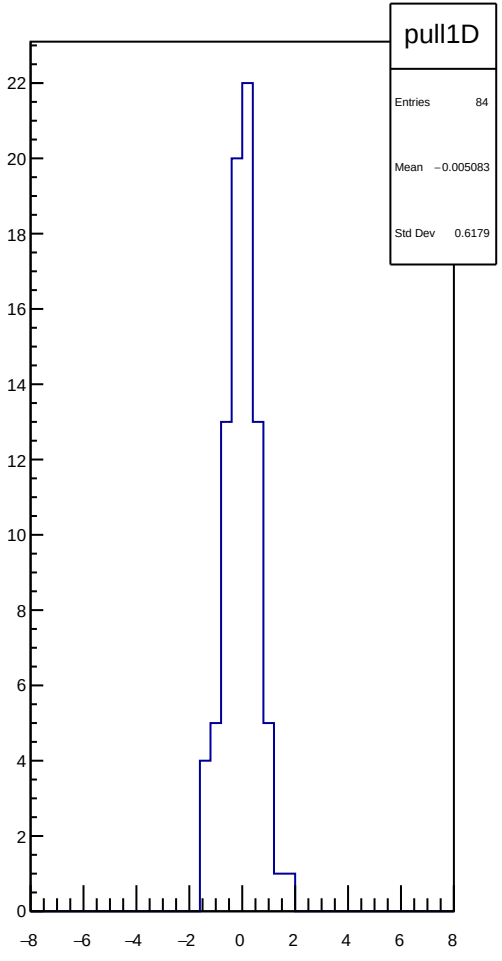

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.3 / 83
p0 64.61 ± 0.8555
pull
Entries 84
Mean −365.2
Std Dev 438

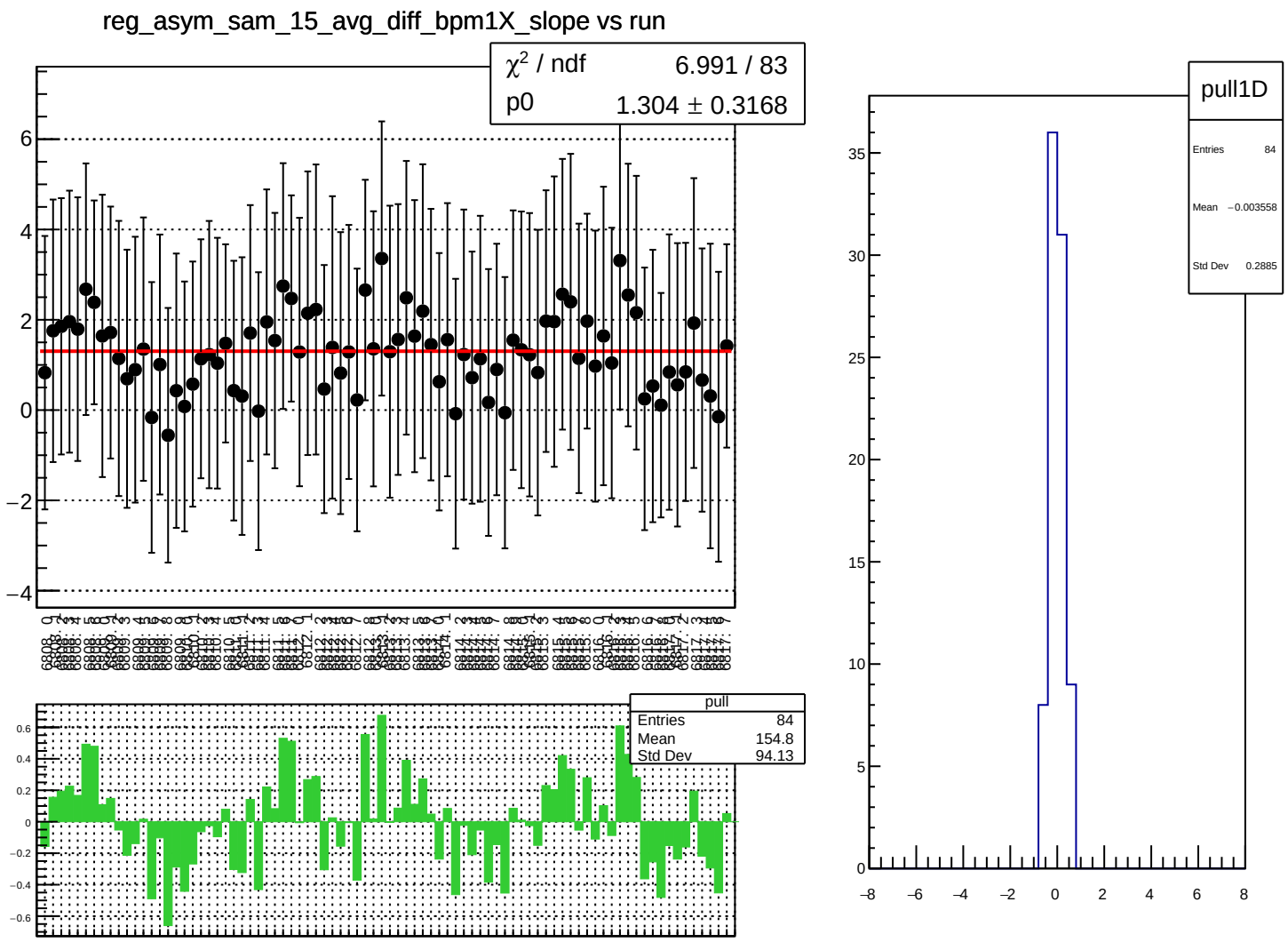

pull1D
Entries 84
Mean 0.0006102
Std Dev 0.6201

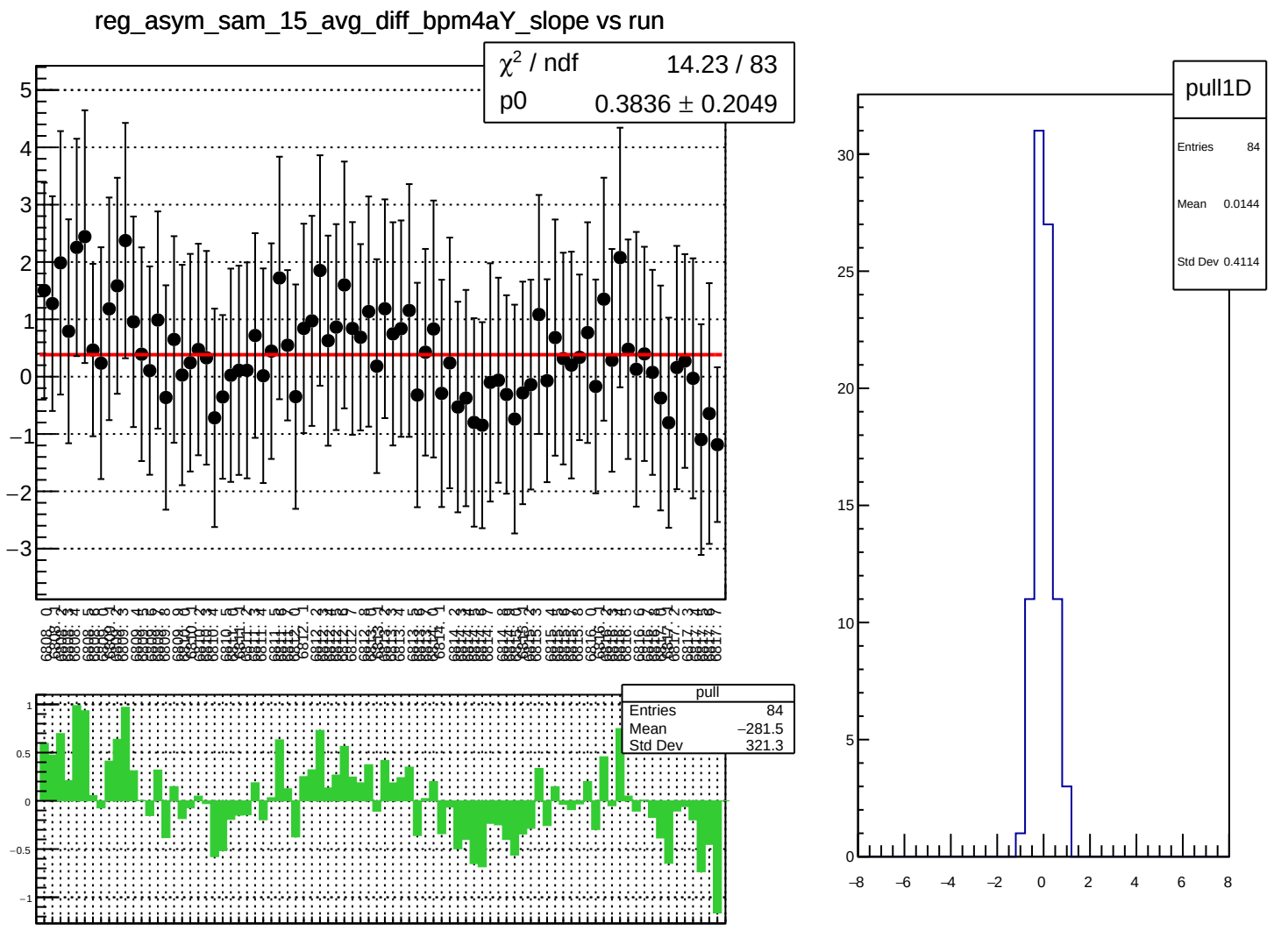

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.22 / 83
p0 2.315 ± 0.7086
pull
Entries 84
Mean −271.9
Std Dev 308.1

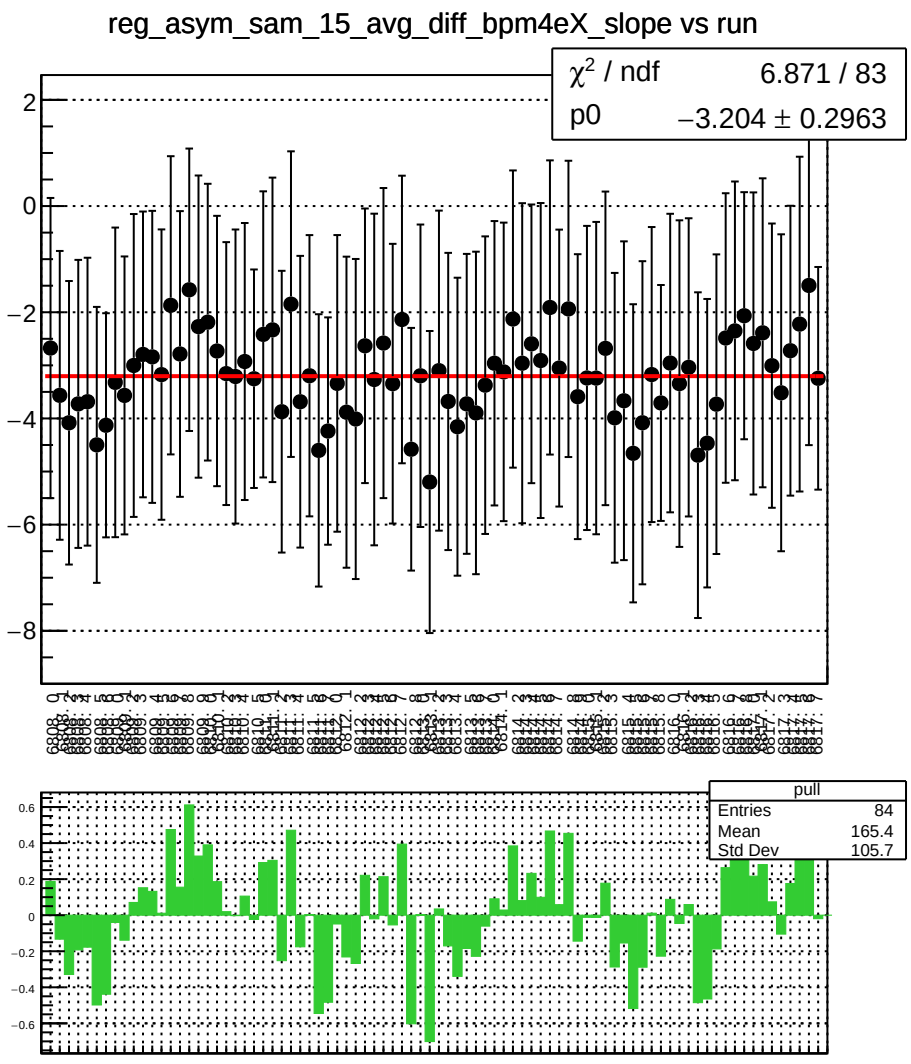

pull1D
Entries 84
Mean −0.001581
Std Dev 0.7576

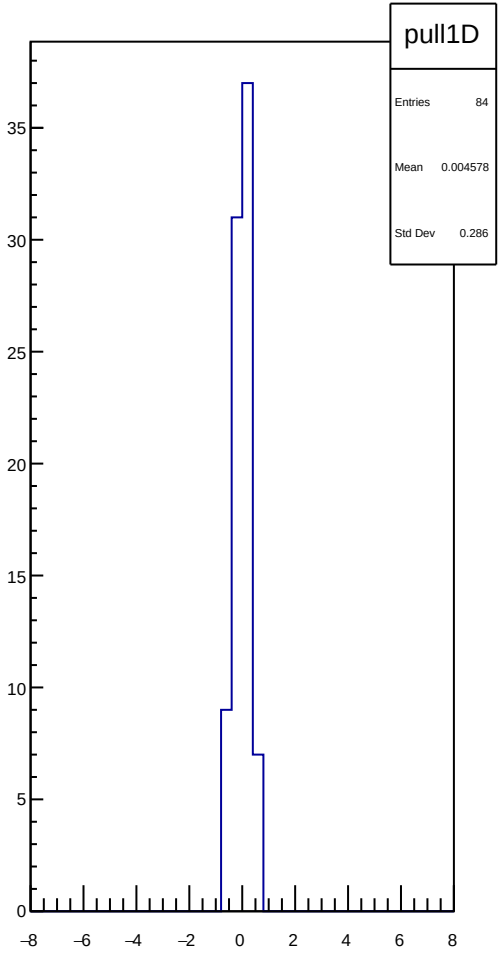

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 32.07 / 83
p0 −18.67 ± 0.03716
pull
Entries 84
Mean 209.6
Std Dev 145.3

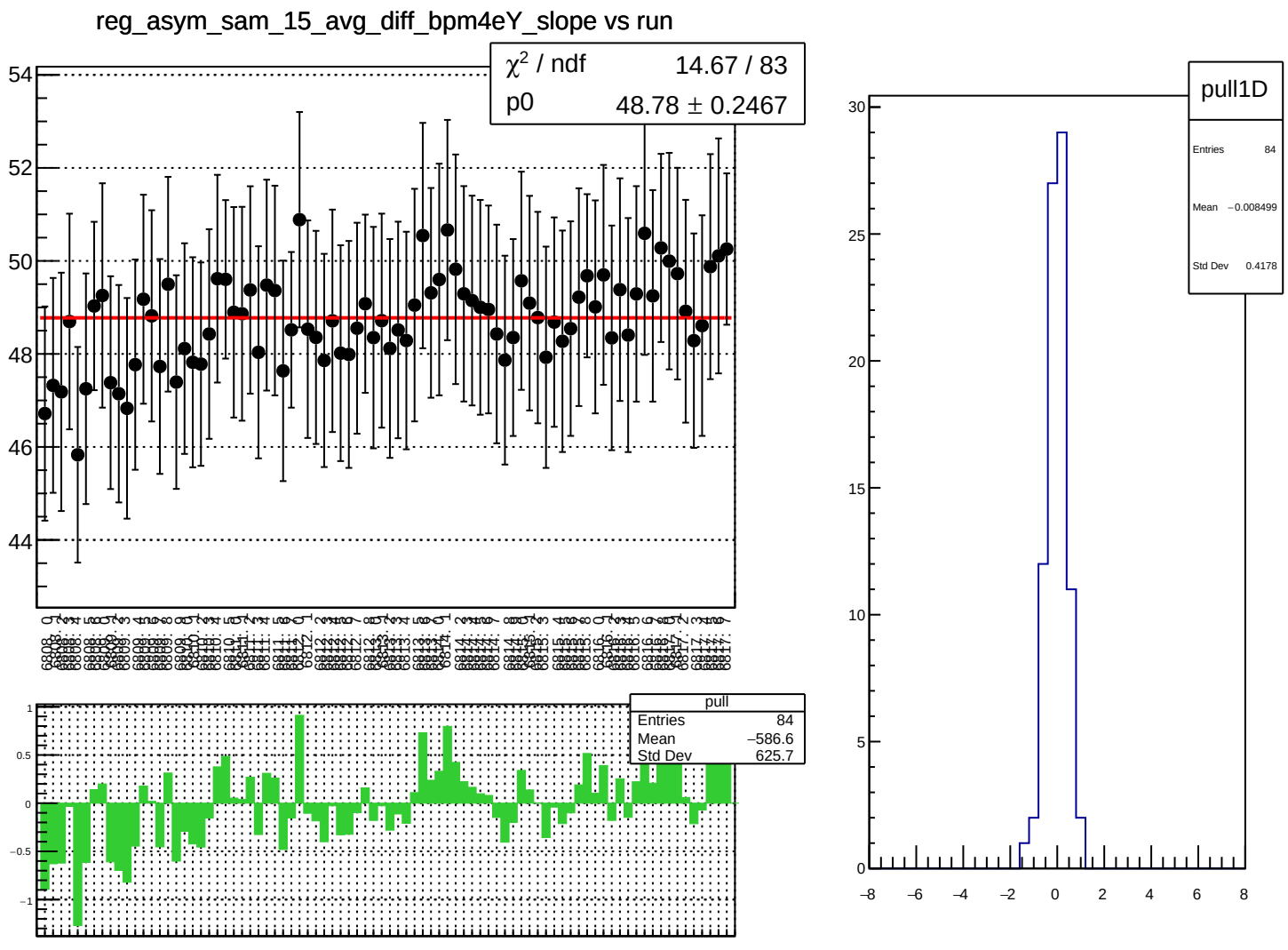

pull1D
Entries 84
Mean −0.005083
Std Dev 0.6179

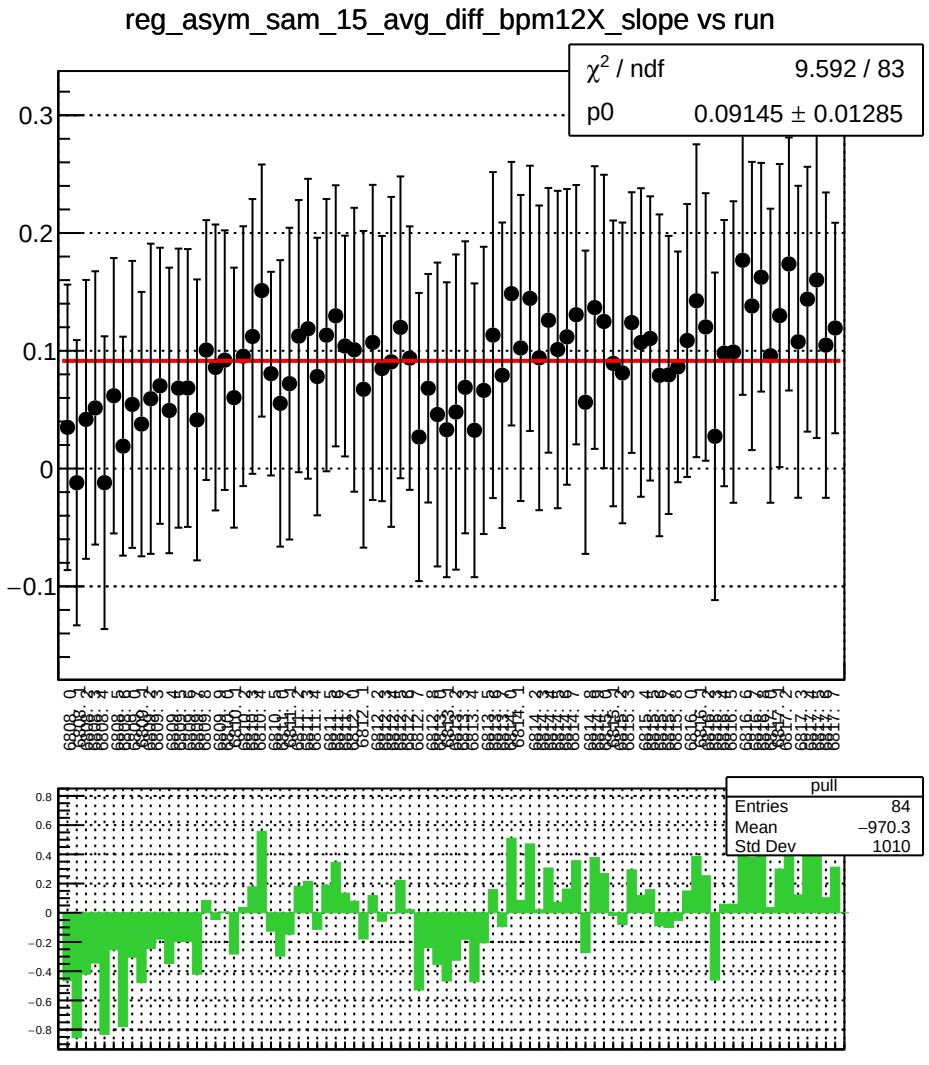

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 6.991 / 83
p0 1.304 ± 0.3168
pull
Entries 84
Mean 154.8
Std Dev 94.13
pull1D
Entries 84
Mean −0.003558
Std Dev 0.2885

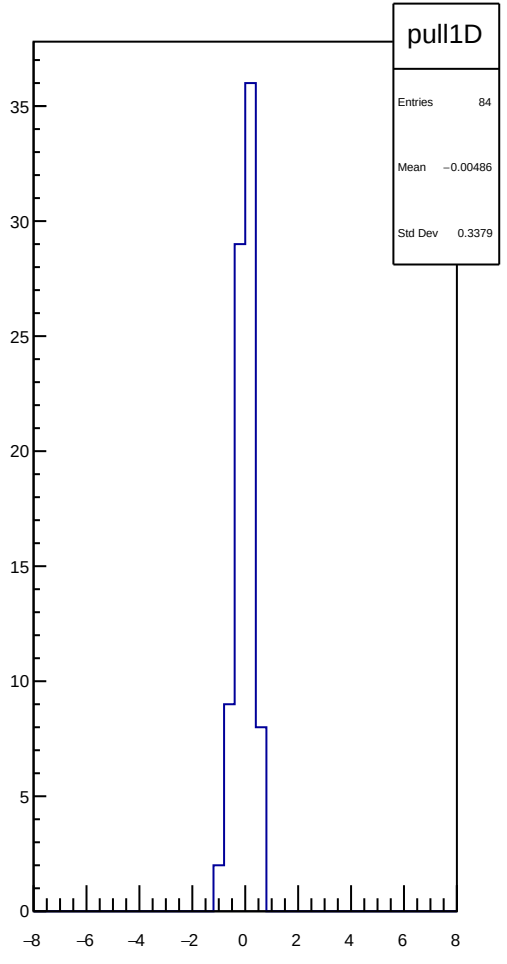

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.23 / 83
p0 0.3836 ± 0.2049
pull
Entries 84
Mean −281.5
Std Dev 321.3
pull1D
Entries 84
Mean 0.0144
Std Dev 0.4114

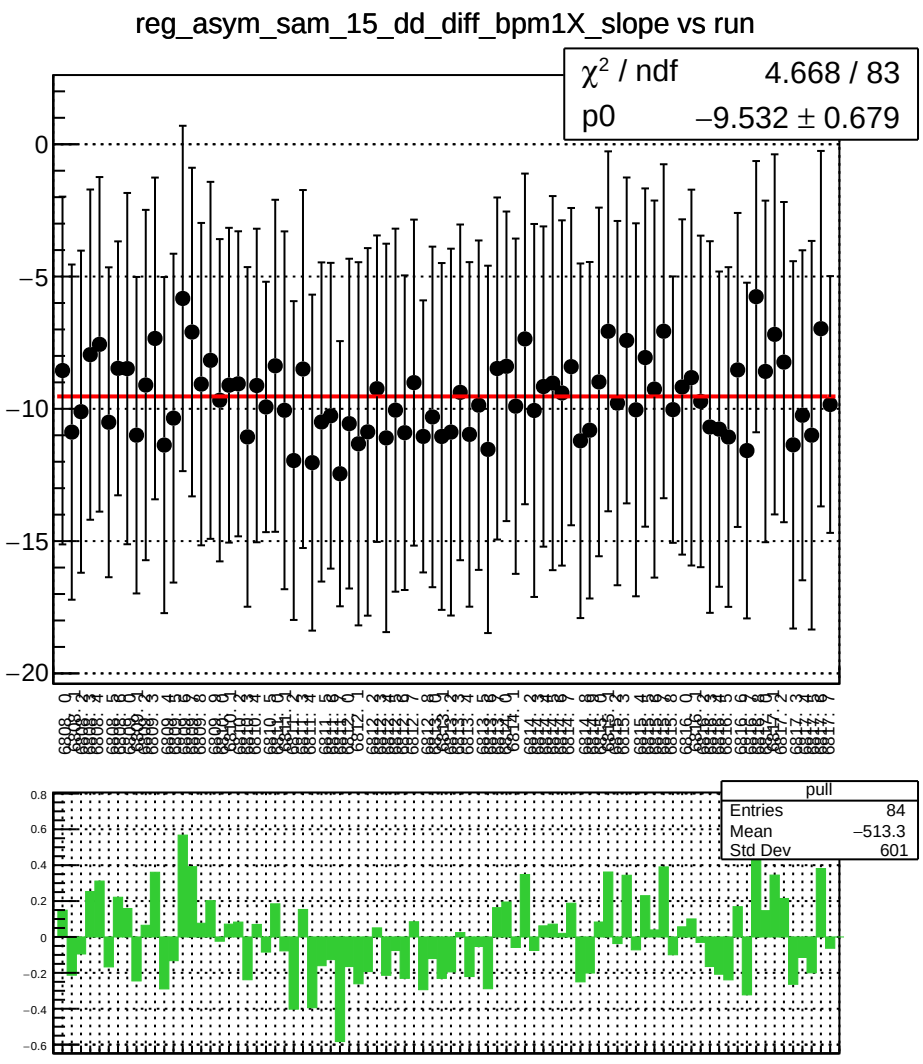

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.871 / 83
p0 −3.204 ± 0.2963
pull
Entries 84
Mean 165.4
Std Dev 105.7

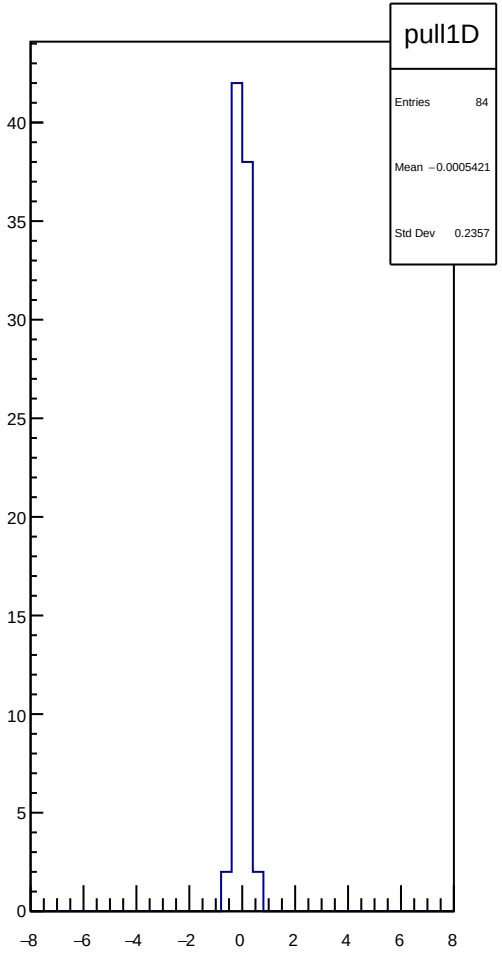

pull1D
Entries 84
Mean 0.004578
Std Dev 0.286

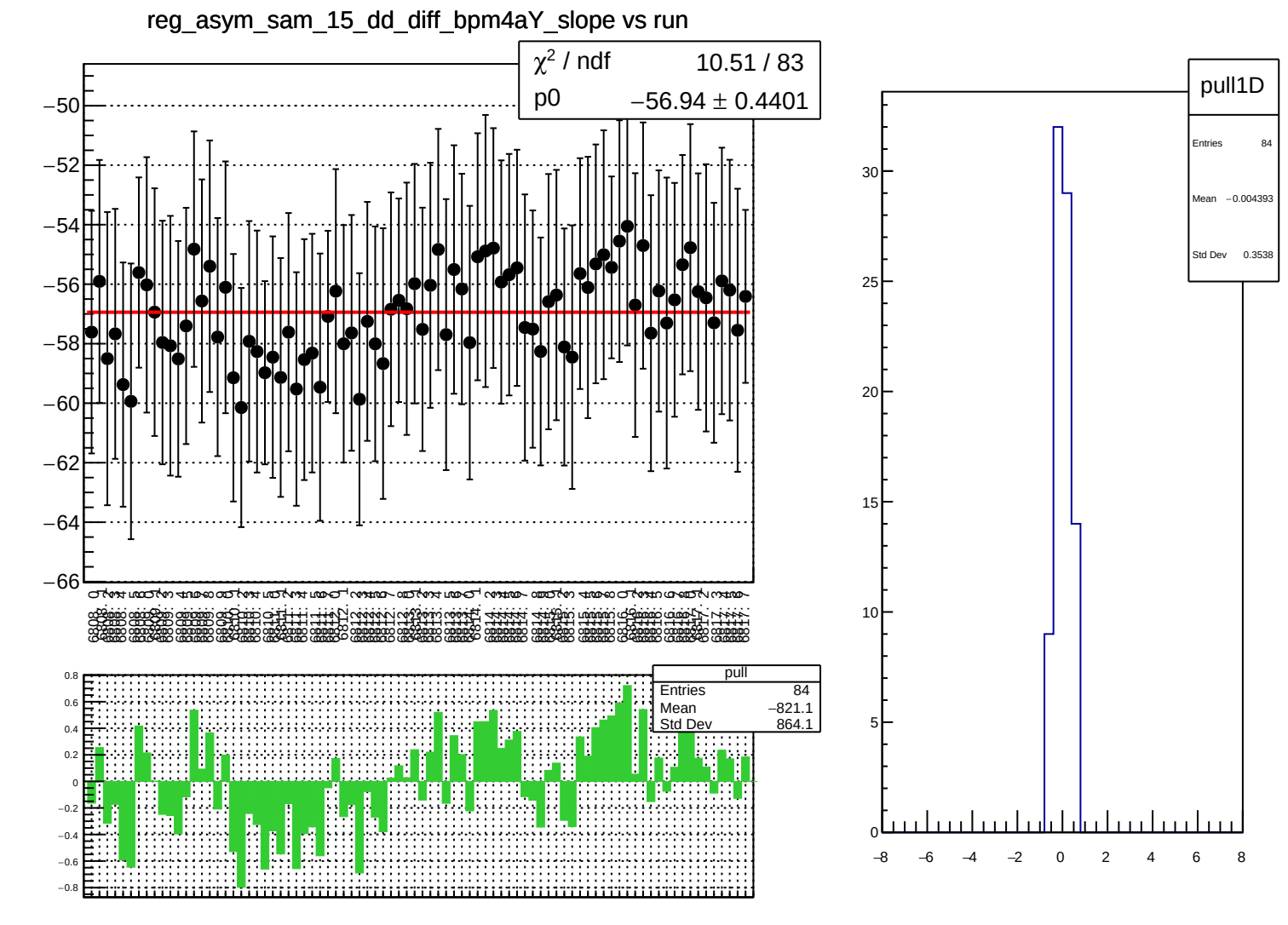

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.67 / 83
p0 48.78 ± 0.2467
54
52
50
48
46
44
pull
Entries 84
Mean −586.6
Std Dev 625.7
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean −0.008499
Std Dev 0.4178
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

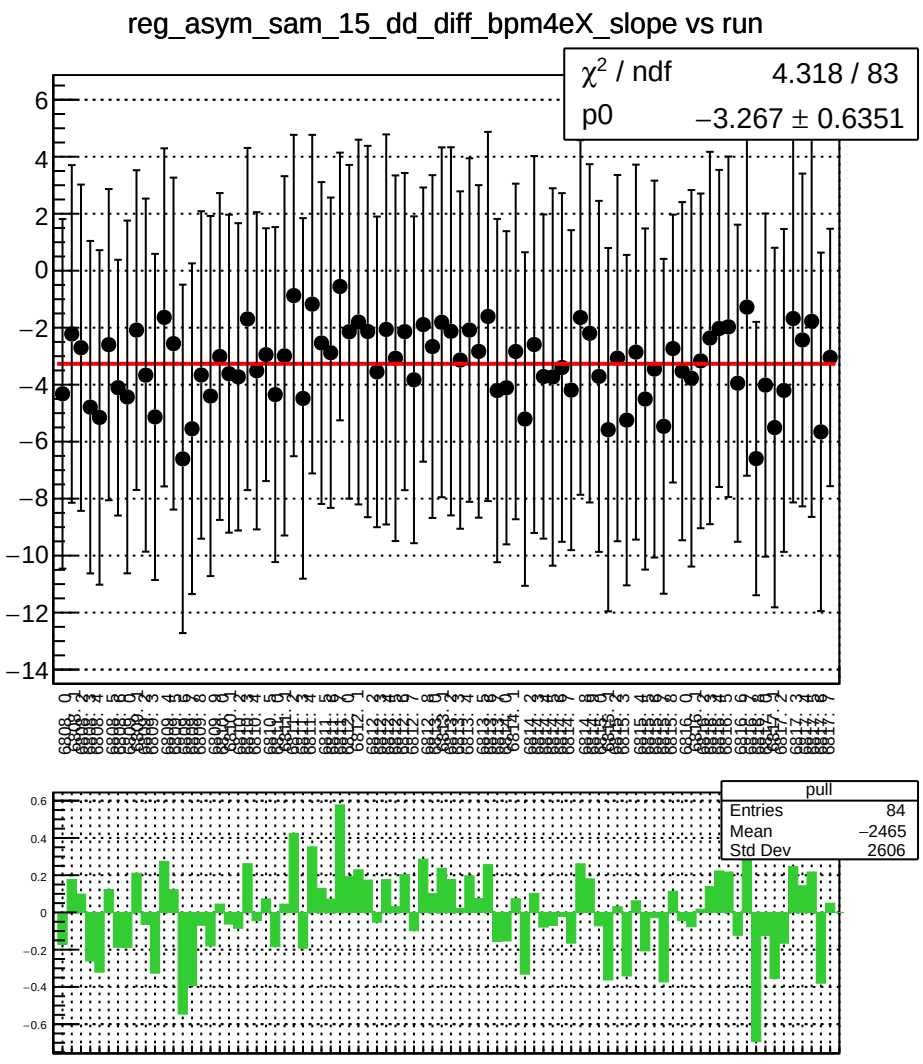

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 9.592 / 83
p0 0.09145 ± 0.01285
0.3
0.2
0.1
0
−0.1
pull
Entries 84
Mean −970.3
Std Dev 1010
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

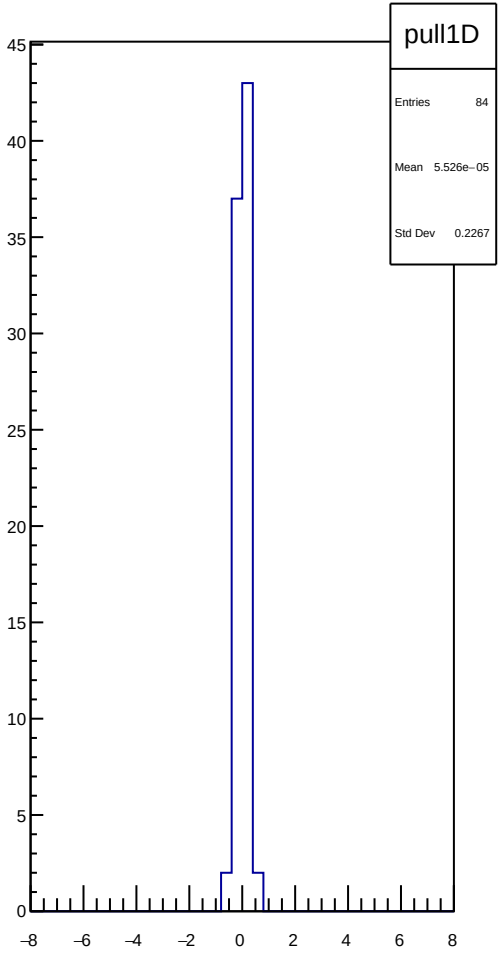

pull1D
Entries 84
Mean −0.00486
Std Dev 0.3379
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

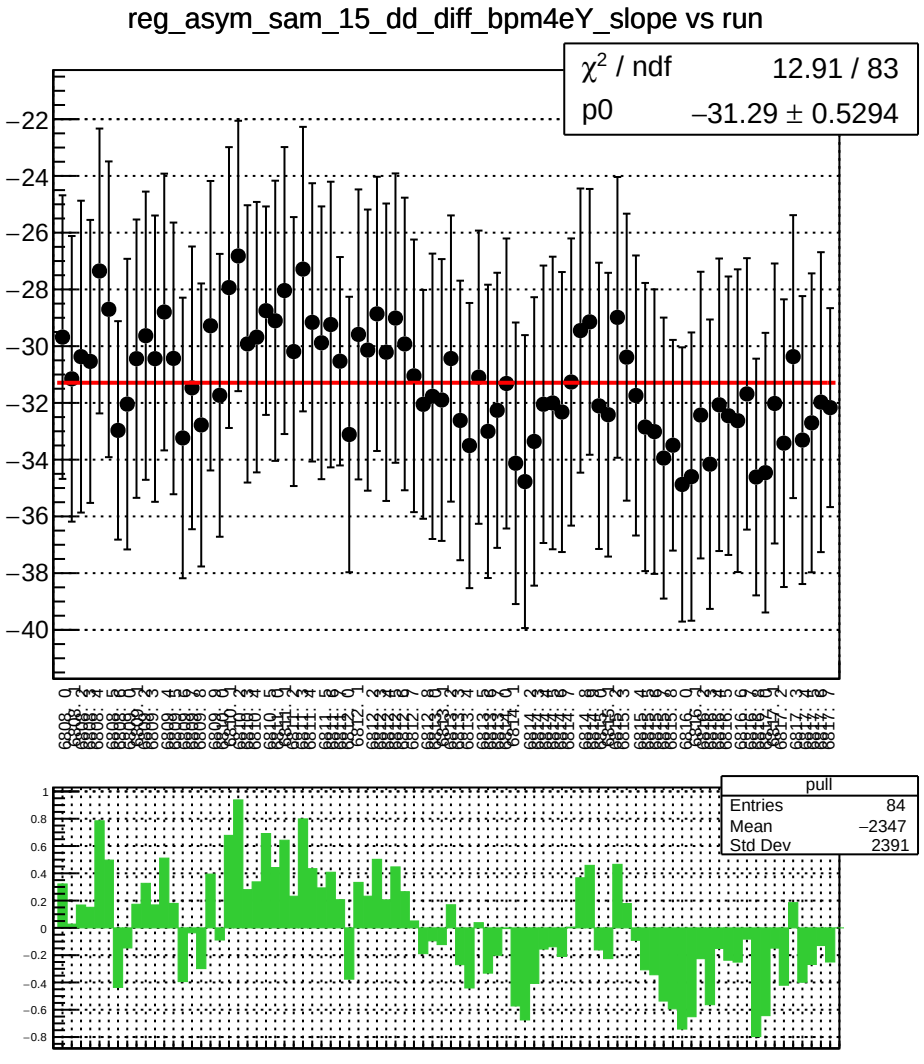

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 4.668 / 83
p0 −9.532 ± 0.679
pull
Entries 84
Mean −513.3
Std Dev 601

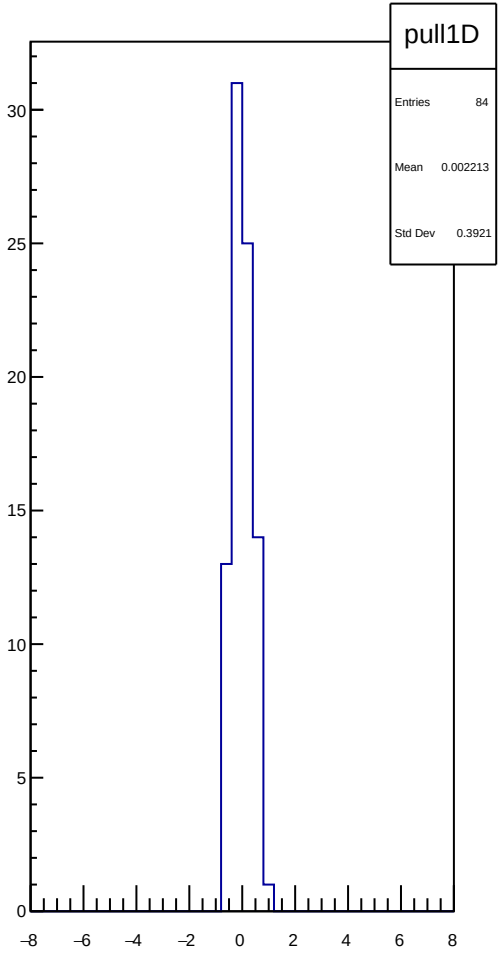

pull1D
Entries 84
Mean −0.0005421
Std Dev 0.2357

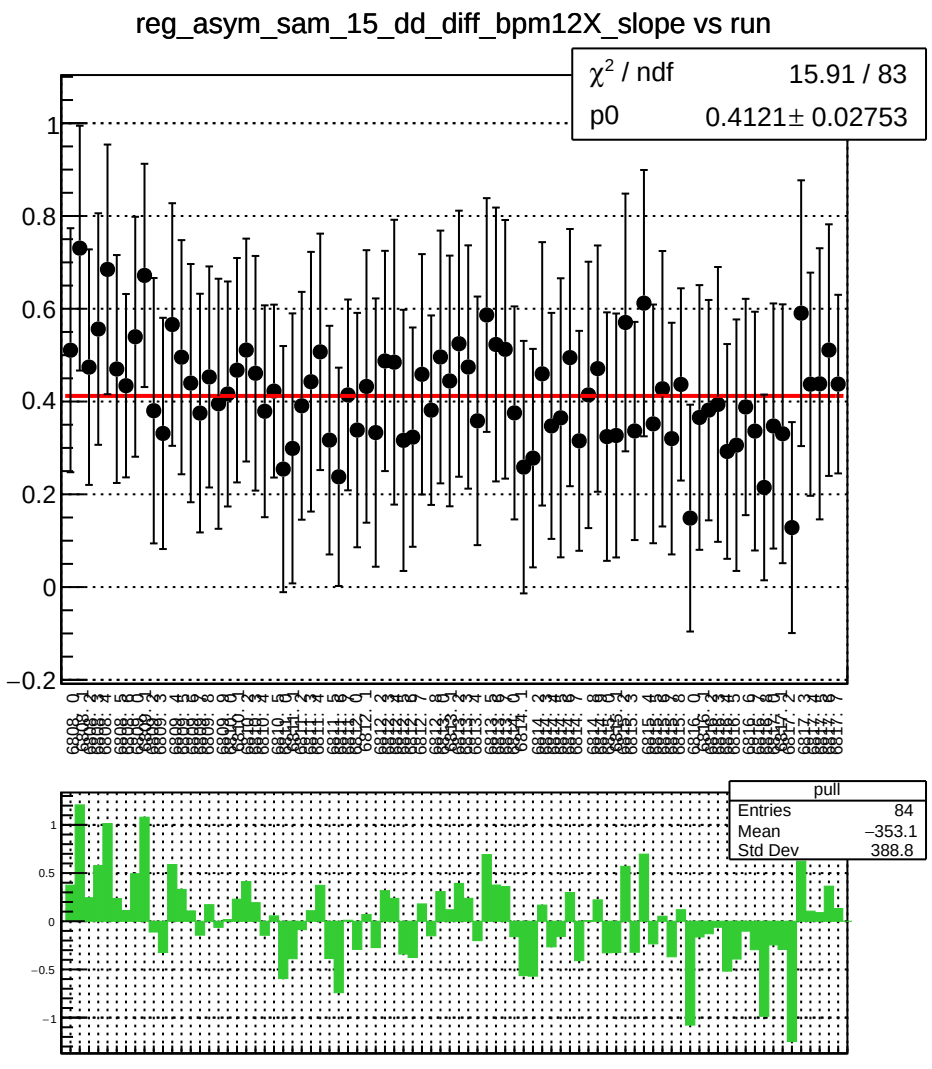

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.51 / 83
p0 −56.94 ± 0.4401
pull
Entries 84
Mean −821.1
Std Dev 864.1
pull1D
Entries 84
Mean −0.004393
Std Dev 0.3538

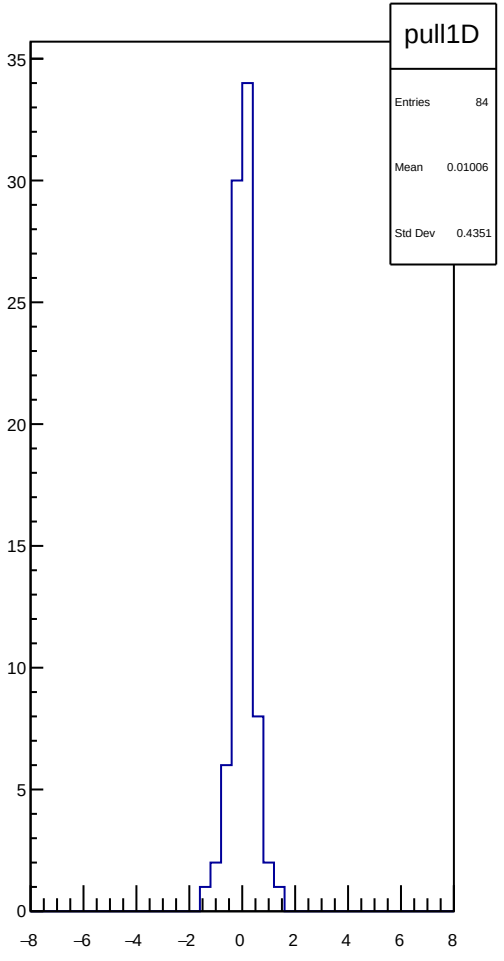

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.318 / 83
p0 −3.267 ± 0.6351
pull
Entries 84
Mean −2465
Std Dev 2606

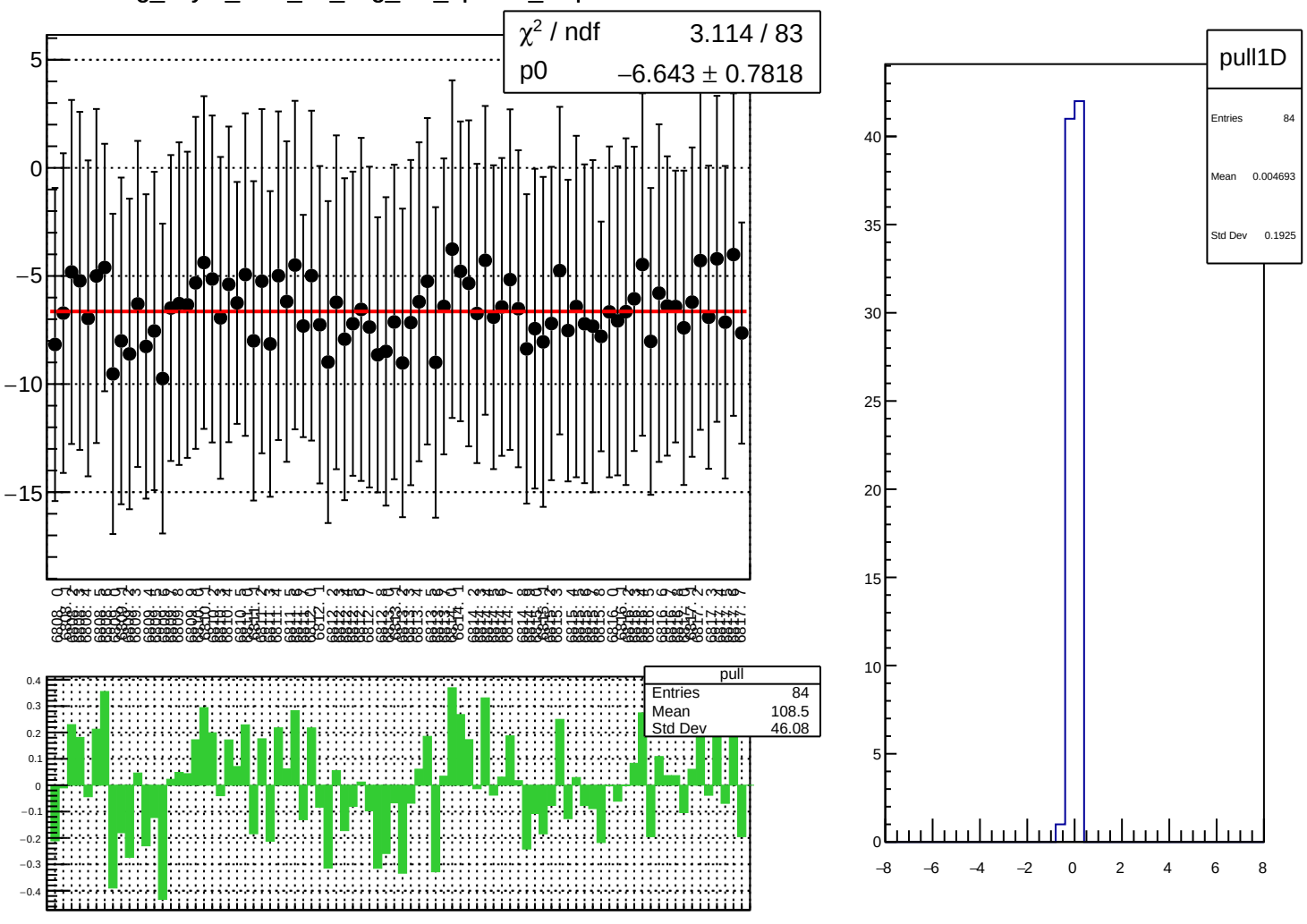

pull1D
Entries 84
Mean 5.526e−05
Std Dev 0.2267

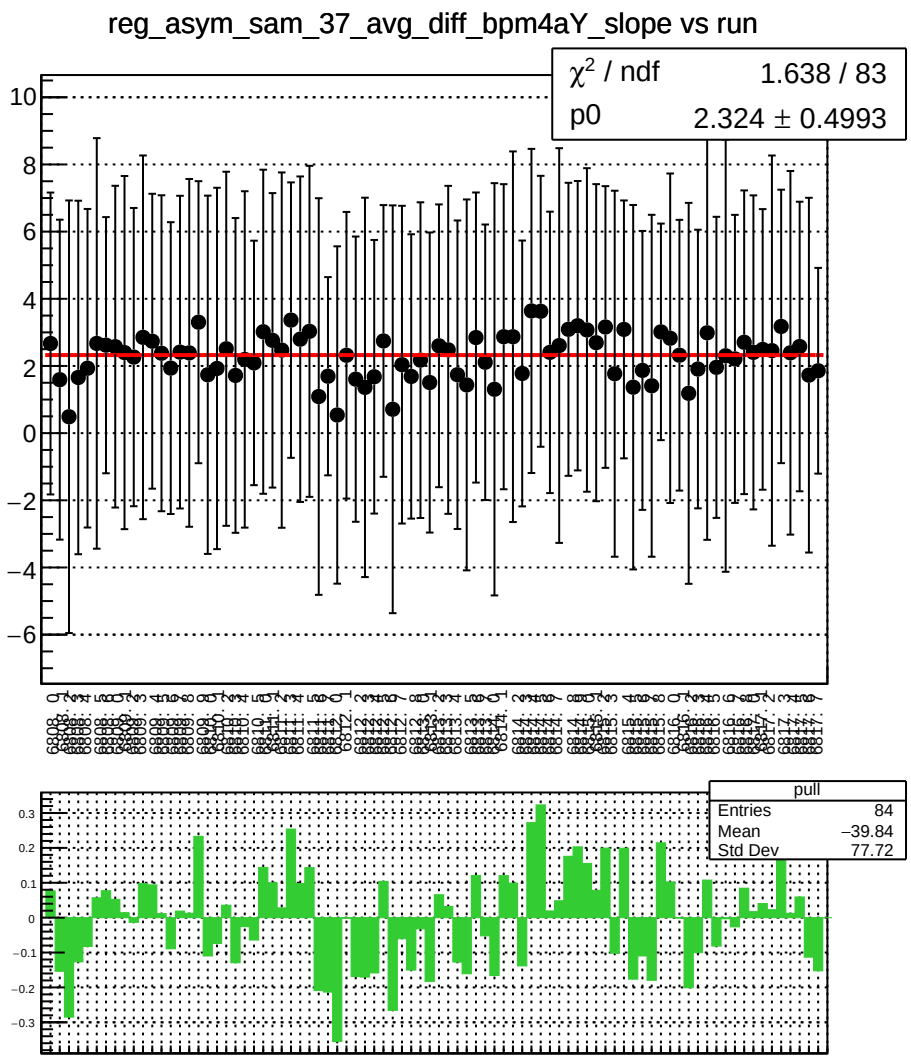

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.91 / 83
p0 −31.29 ± 0.5294
pull
Entries 84
Mean −2347
Std Dev 2391

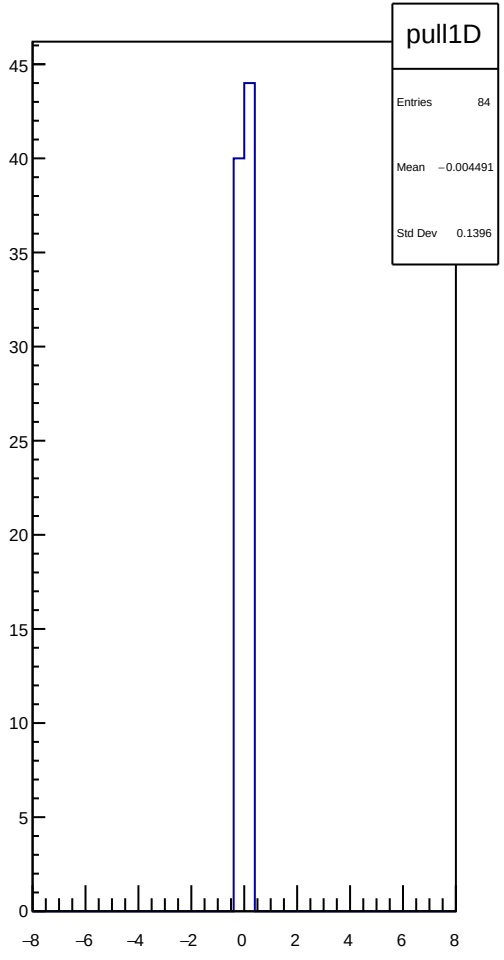

pull1D
Entries 84
Mean 0.002213
Std Dev 0.3921

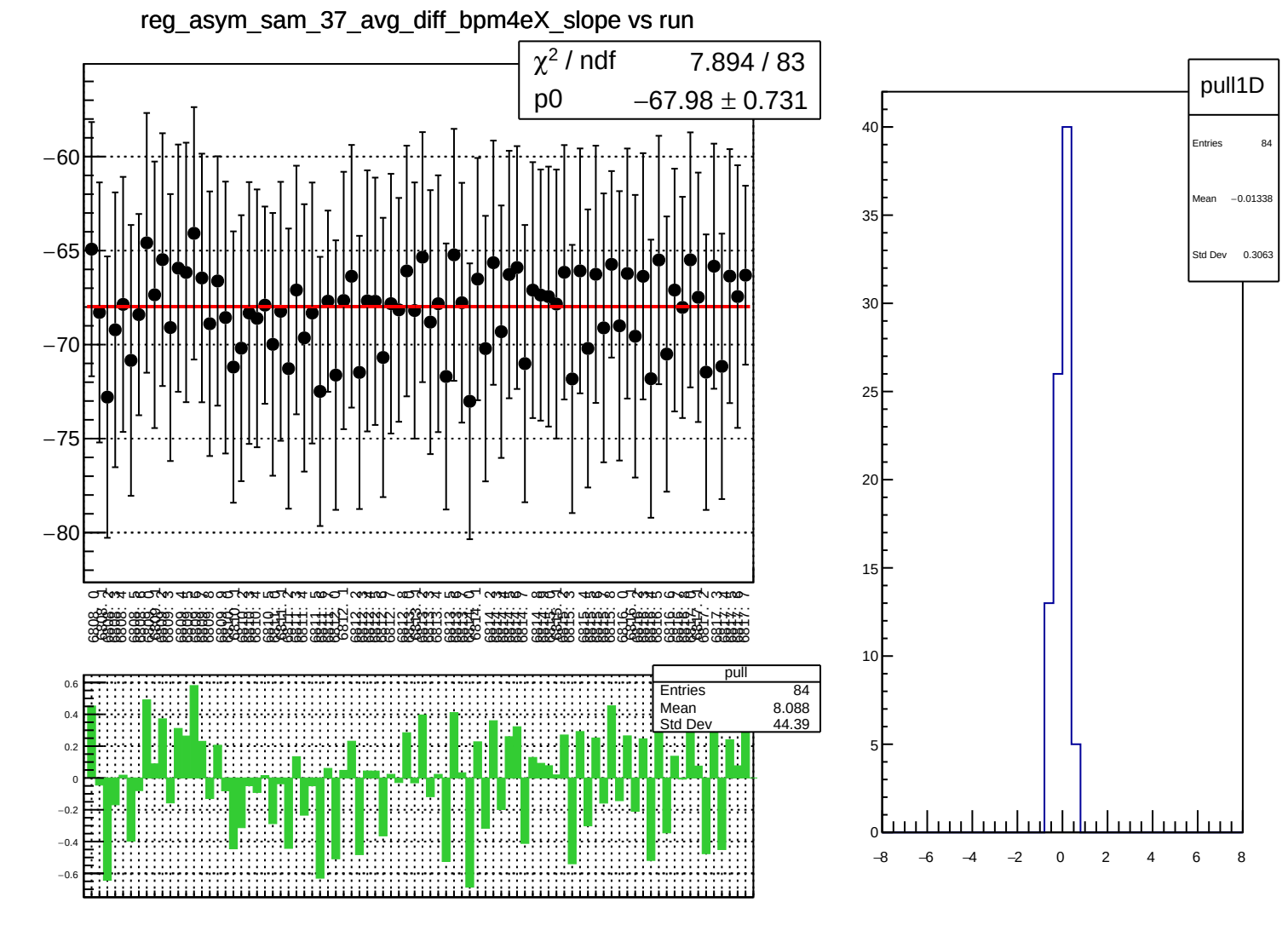

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 15.91 / 83
p0 0.4121± 0.02753
pull
Entries 84
Mean −353.1
Std Dev 388.8

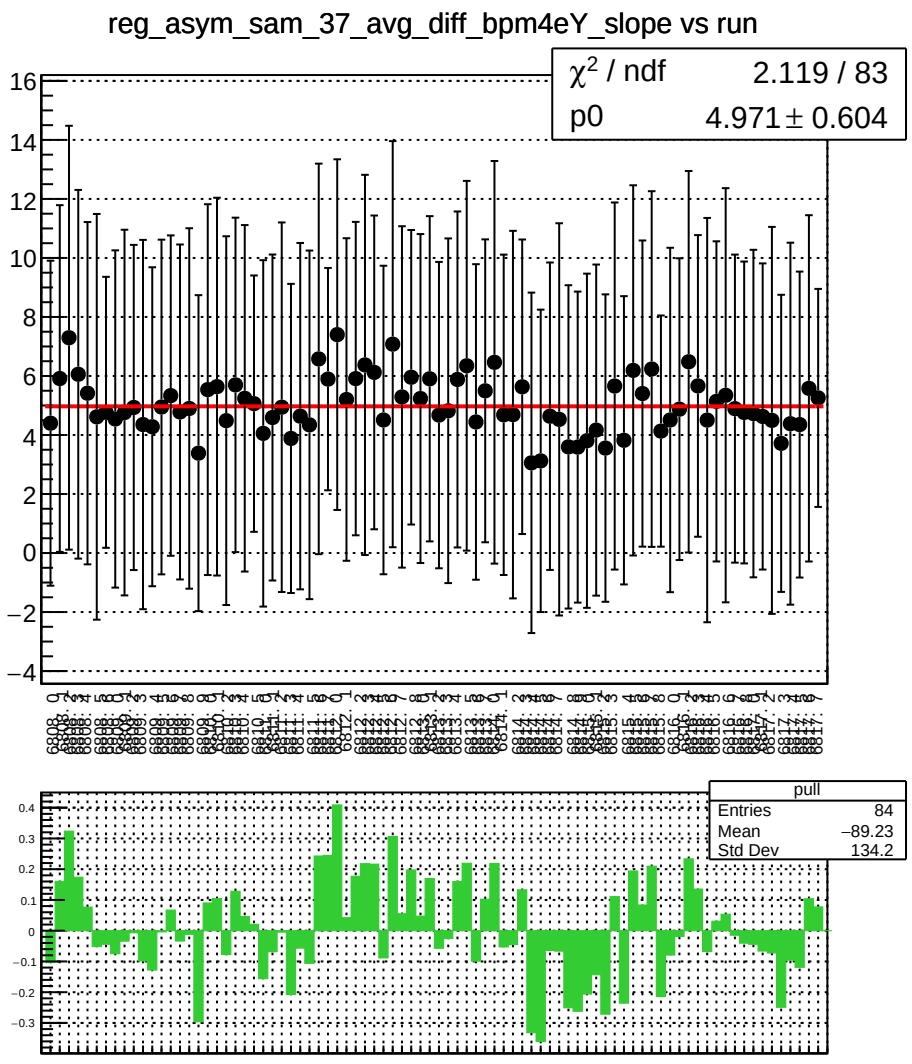

pull1D
Entries 84
Mean 0.01006
Std Dev 0.4351

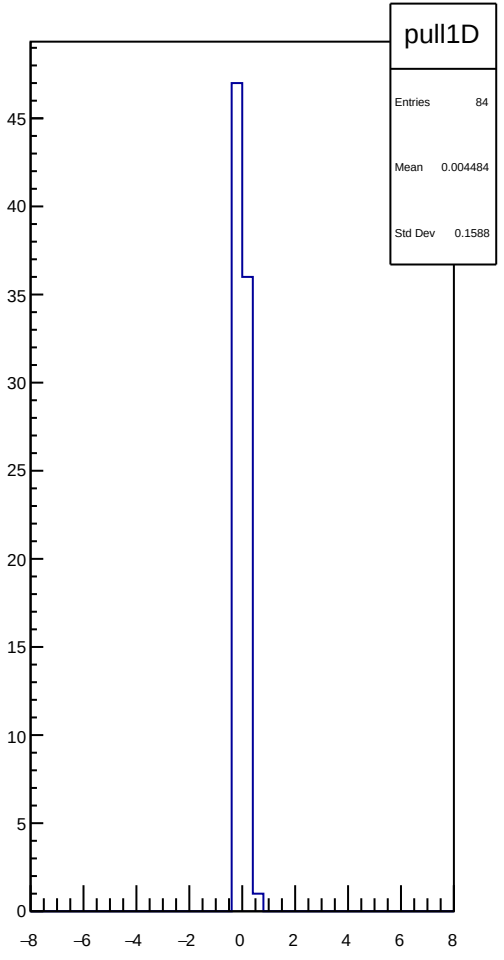

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 3.114 / 83
p0 −6.643 ± 0.7818
pull
Entries 84
Mean 108.5
Std Dev 46.08
pull1D
Entries 84
Mean 0.004693
Std Dev 0.1925

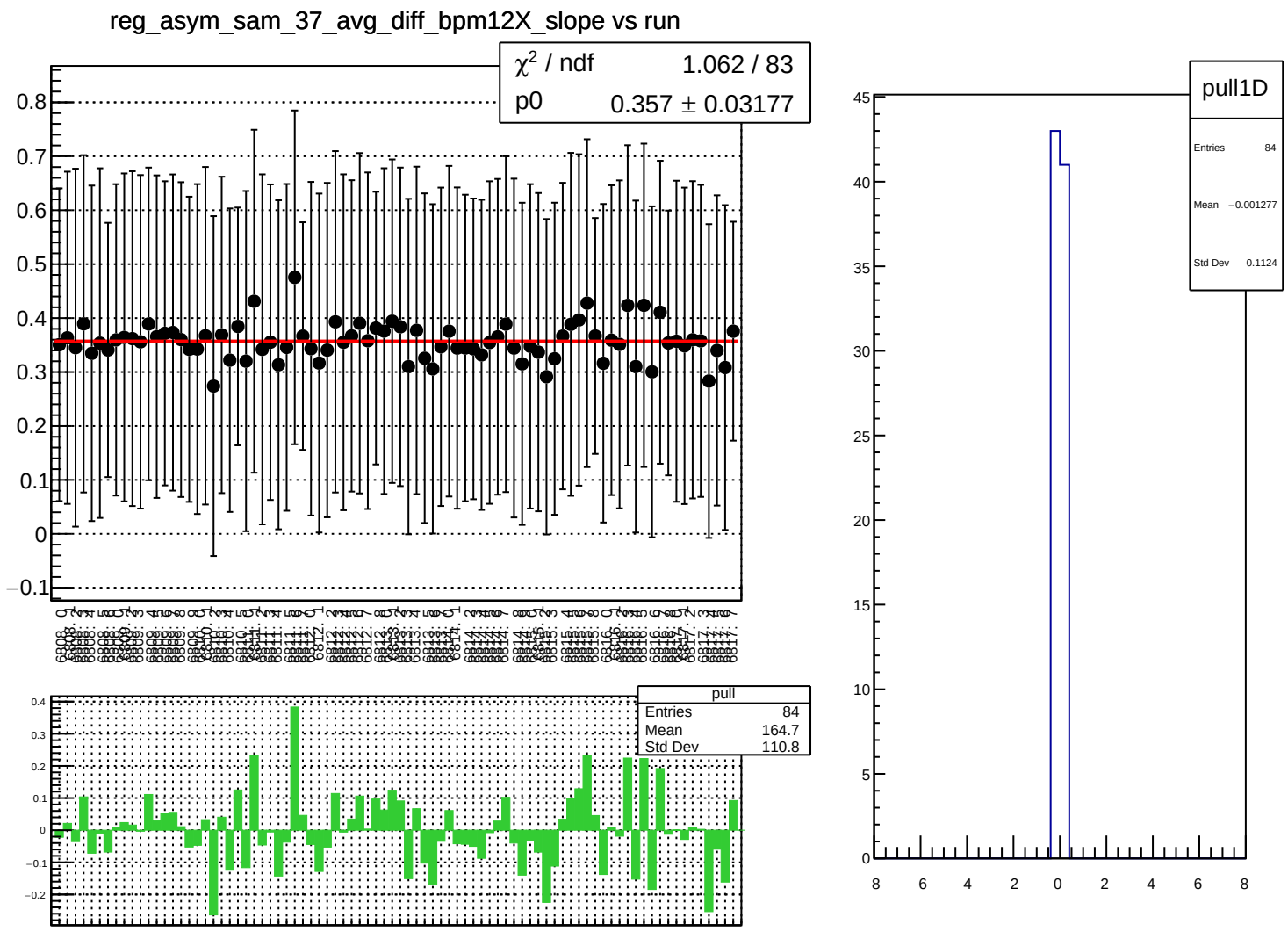

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.638 / 83
p0 2.324 ± 0.4993
pull
Entries 84
Mean −39.84
Std Dev 77.72

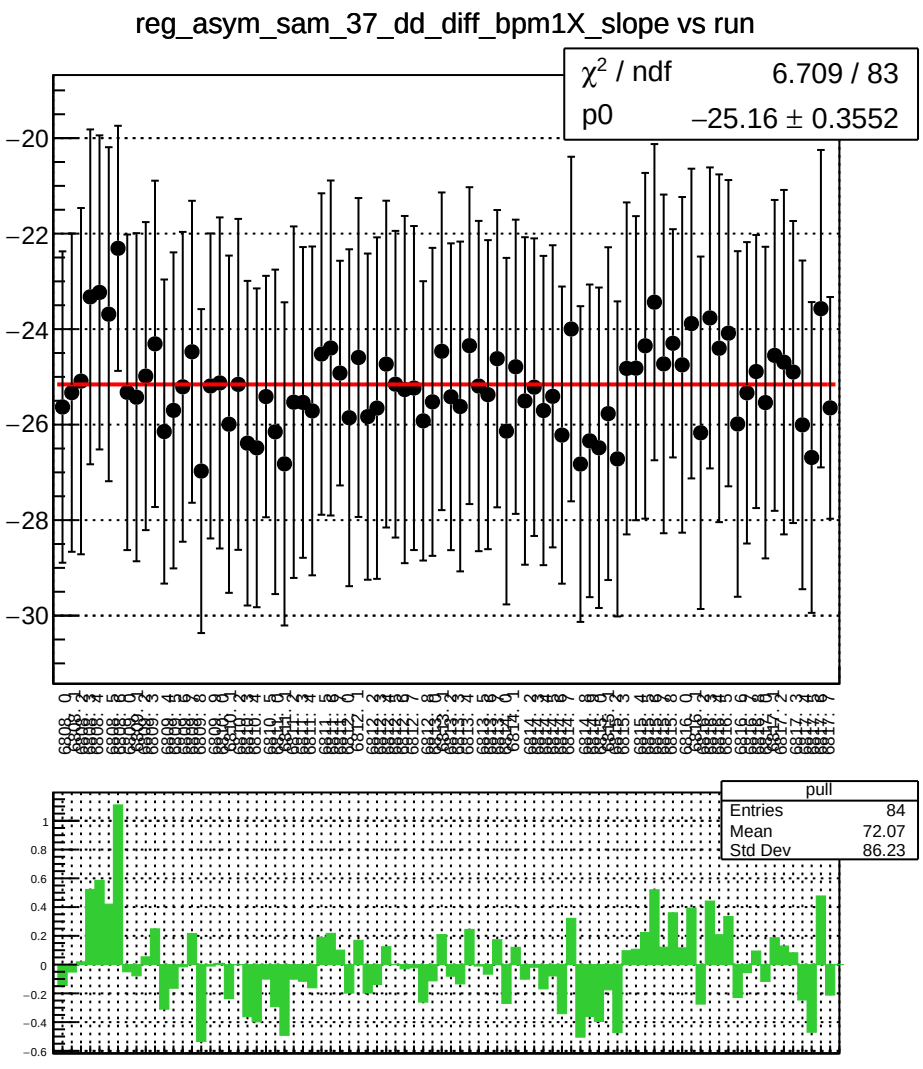

pull1D
Entries 84
Mean −0.004491
Std Dev 0.1396

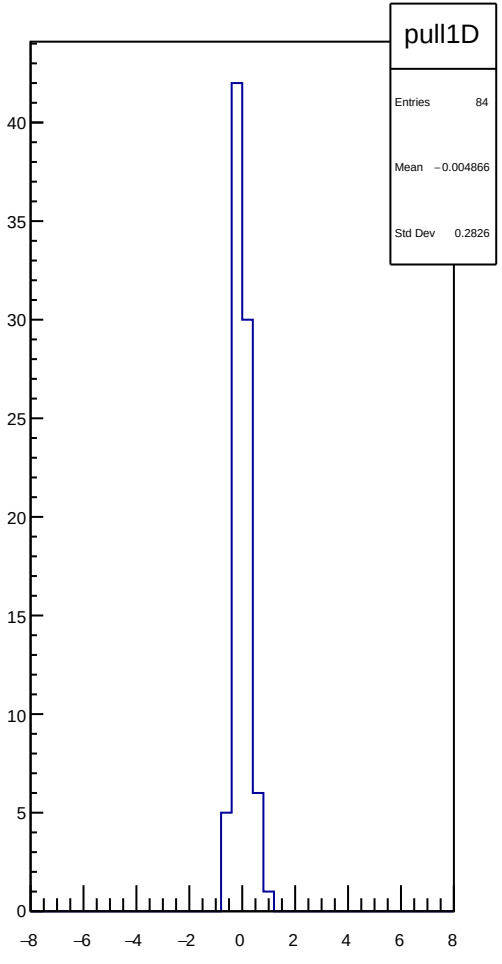

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.894 / 83
p0 −67.98 ± 0.731
−60
−65
−70
−75
−80
pull
Entries 84
Mean 8.088
Std Dev 44.39
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 84
Mean −0.01338
Std Dev 0.3063
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

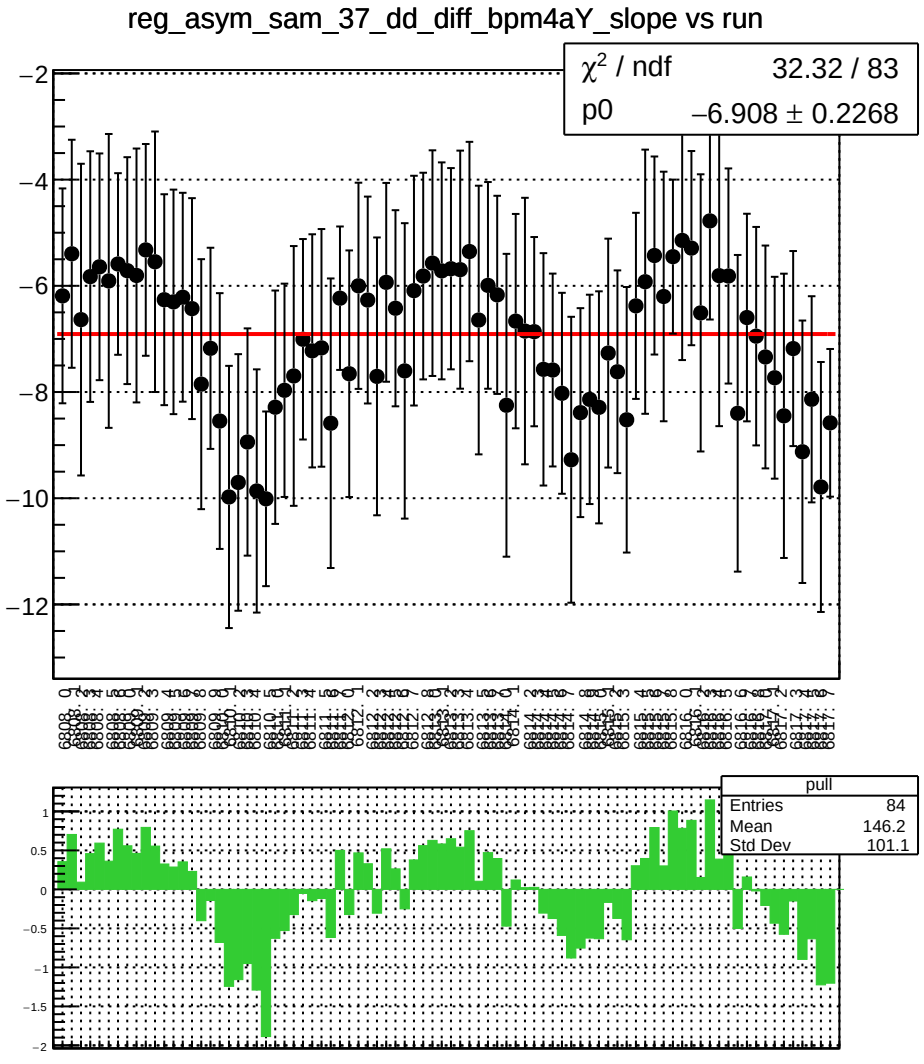

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.119 / 83
p0 4.971 ± 0.604
pull
Entries 84
Mean −89.23
Std Dev 134.2

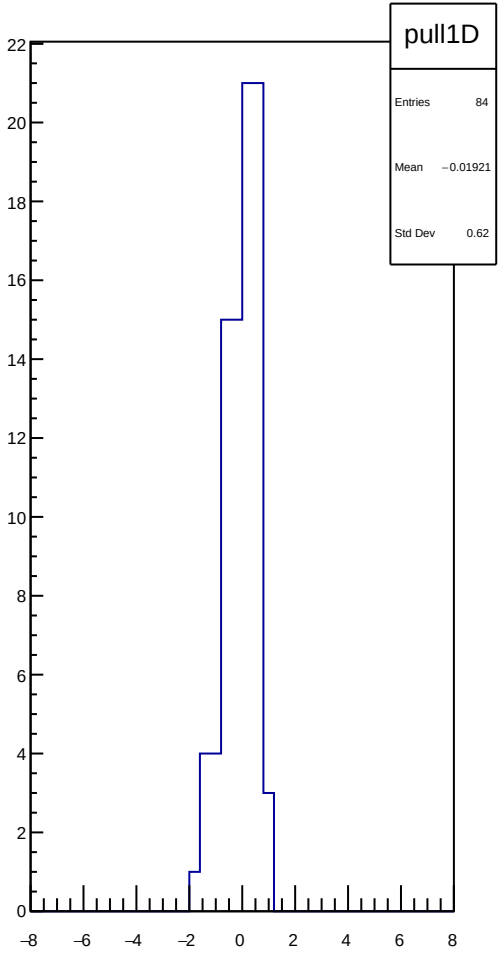

pull1D
Entries 84
Mean 0.004484
Std Dev 0.1588

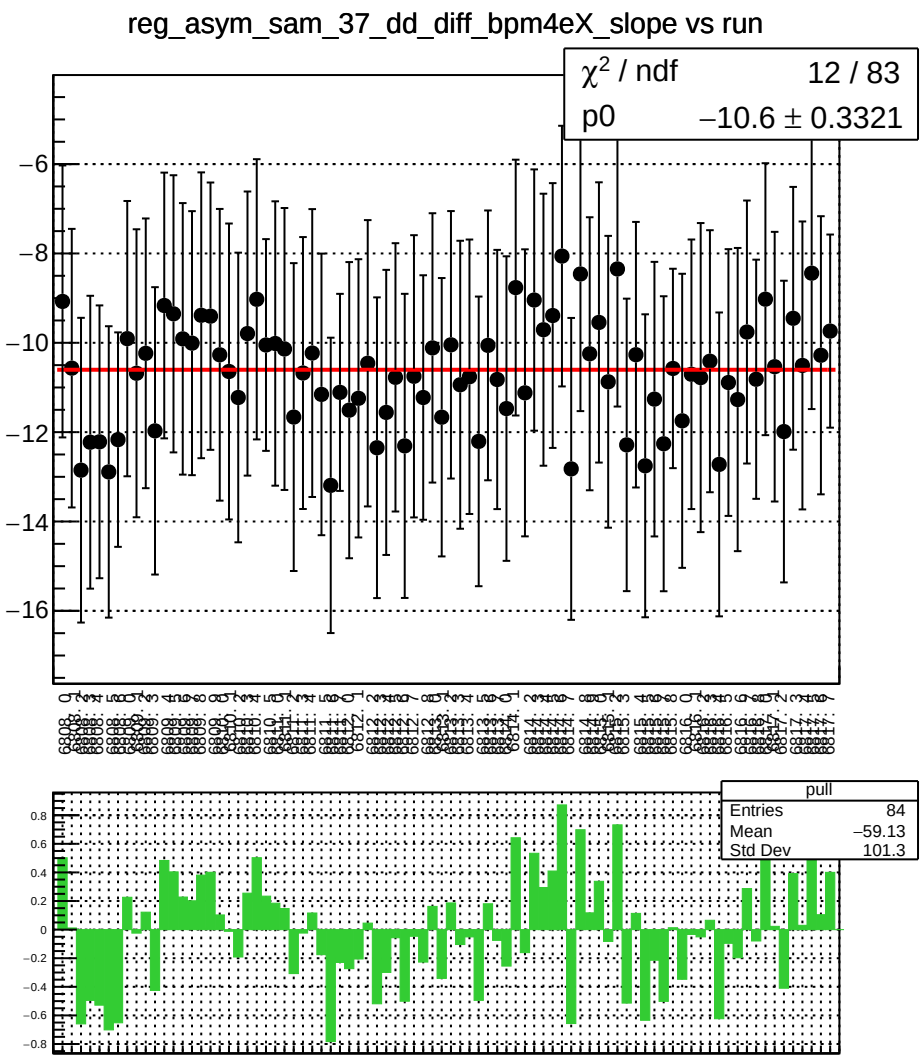

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 1.062 / 83
p0 0.357 ± 0.03177
pull
Entries 84
Mean 164.7
Std Dev 110.8
pull1D
Entries 84
Mean −0.001277
Std Dev 0.1124

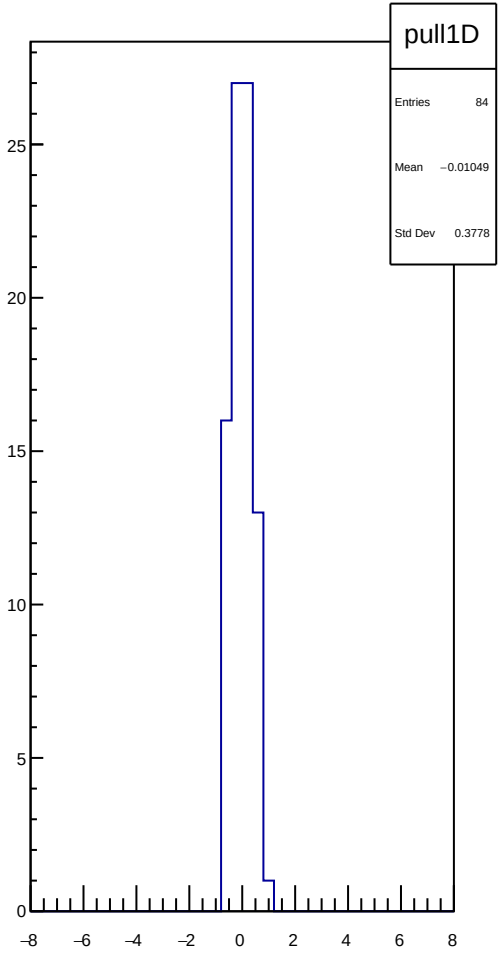

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 6.709 / 83
p0 −25.16 ± 0.3552
pull
Entries 84
Mean 72.07
Std Dev 86.23

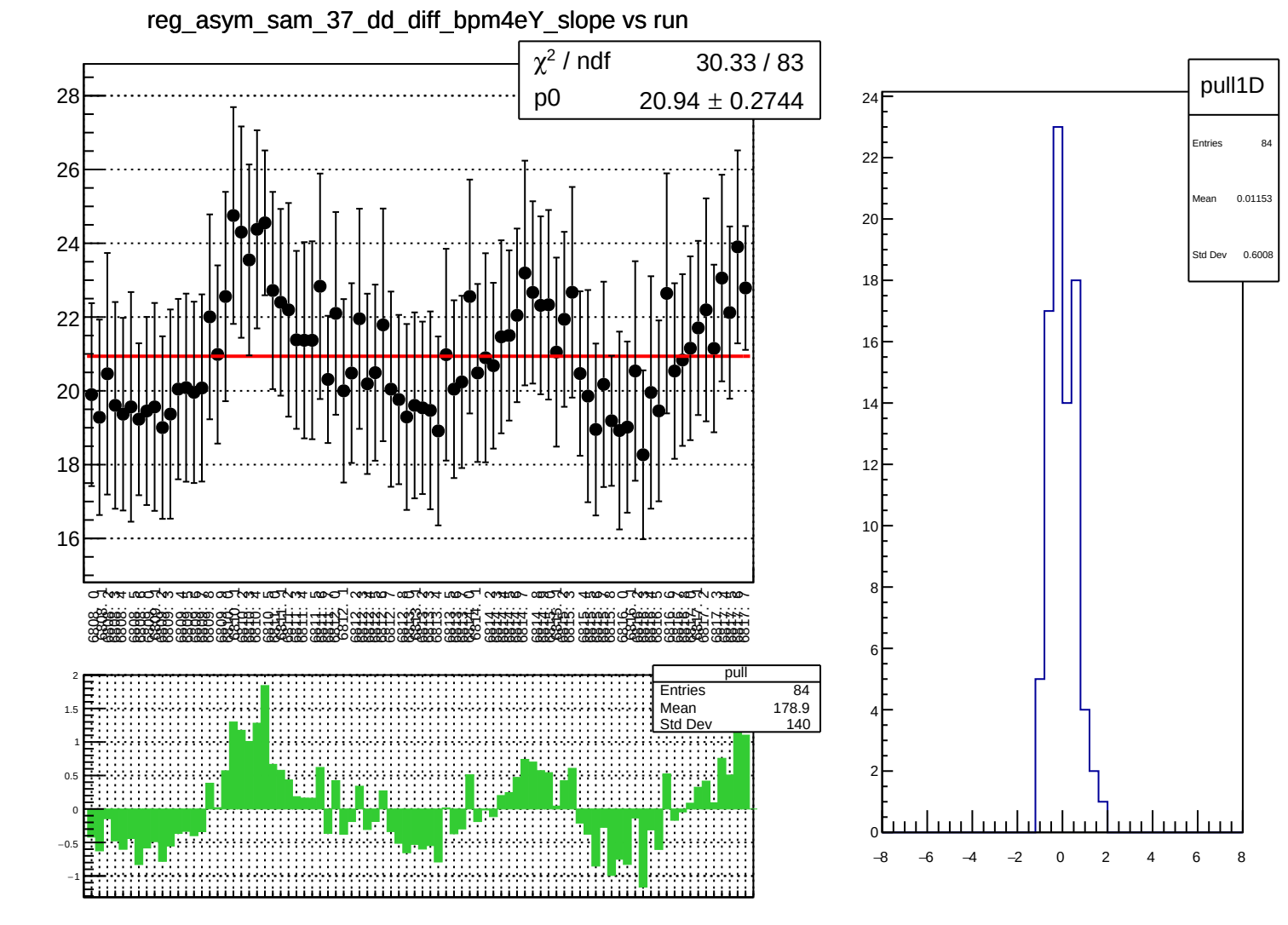

pull1D
Entries 84
Mean −0.004866
Std Dev 0.2826

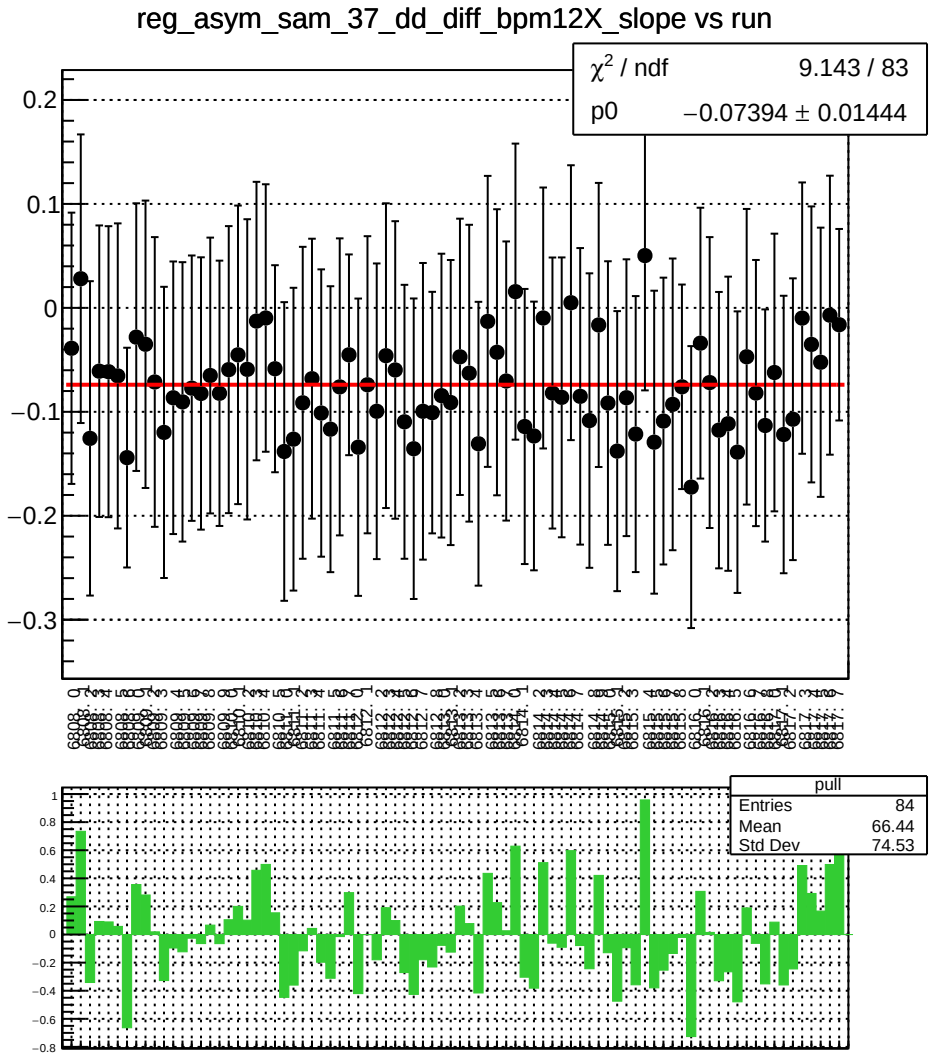

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.32 / 83
p0 −6.908 ± 0.2268
pull
Entries 84
Mean 146.2
Std Dev 101.1

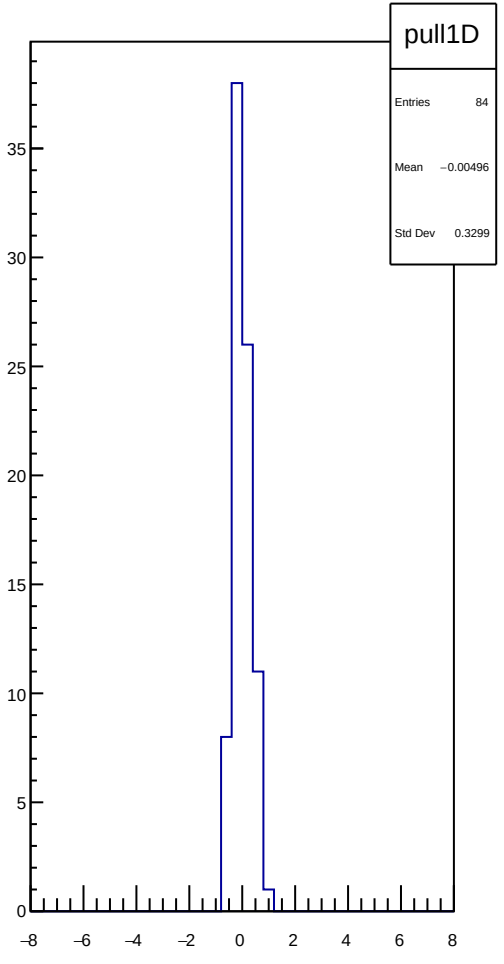

pull1D
Entries 84
Mean −0.01921
Std Dev 0.62

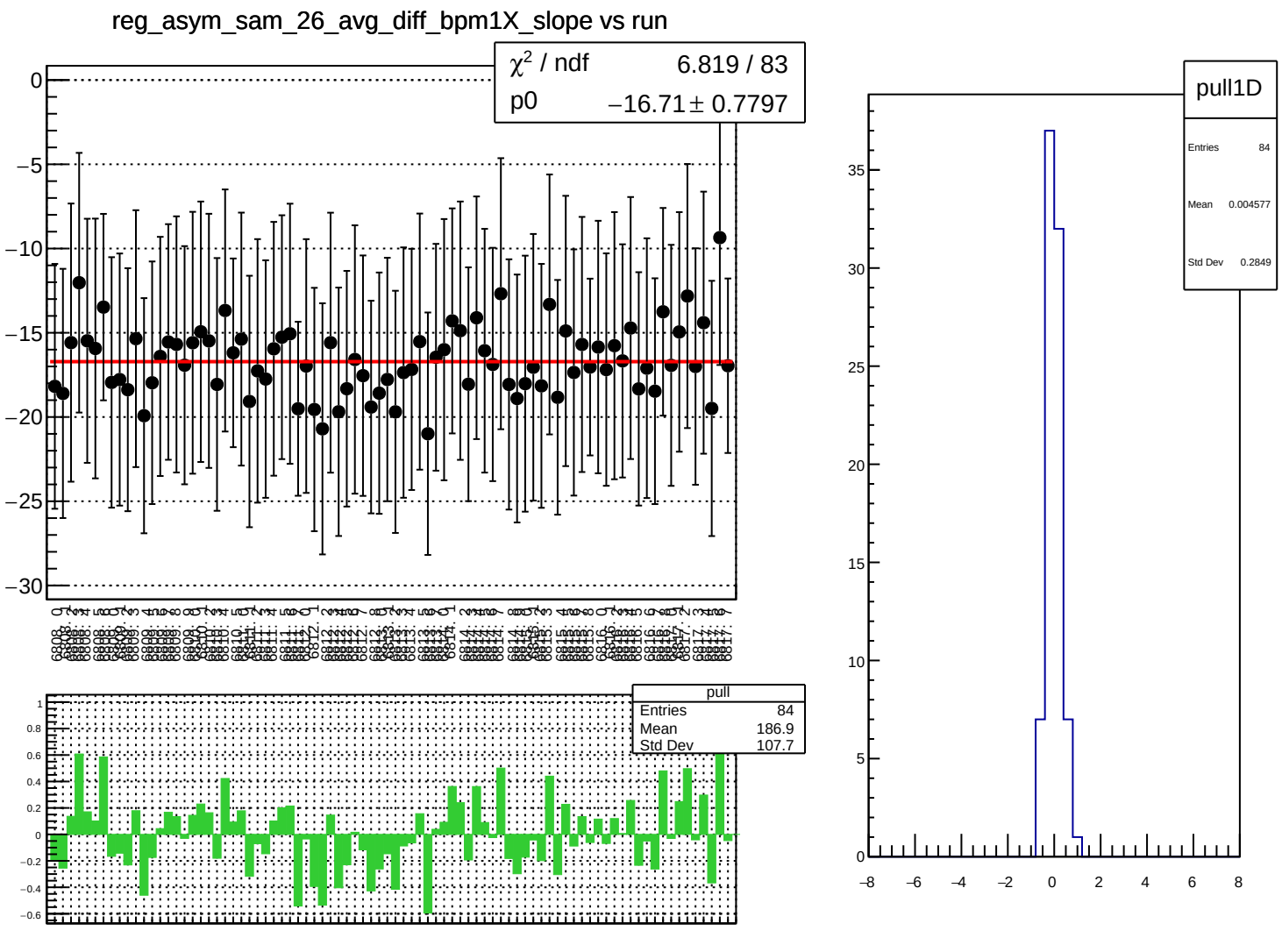

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 12 / 83
p0 −10.6 ± 0.3321
pull
Entries 84
Mean −59.13
Std Dev 101.3

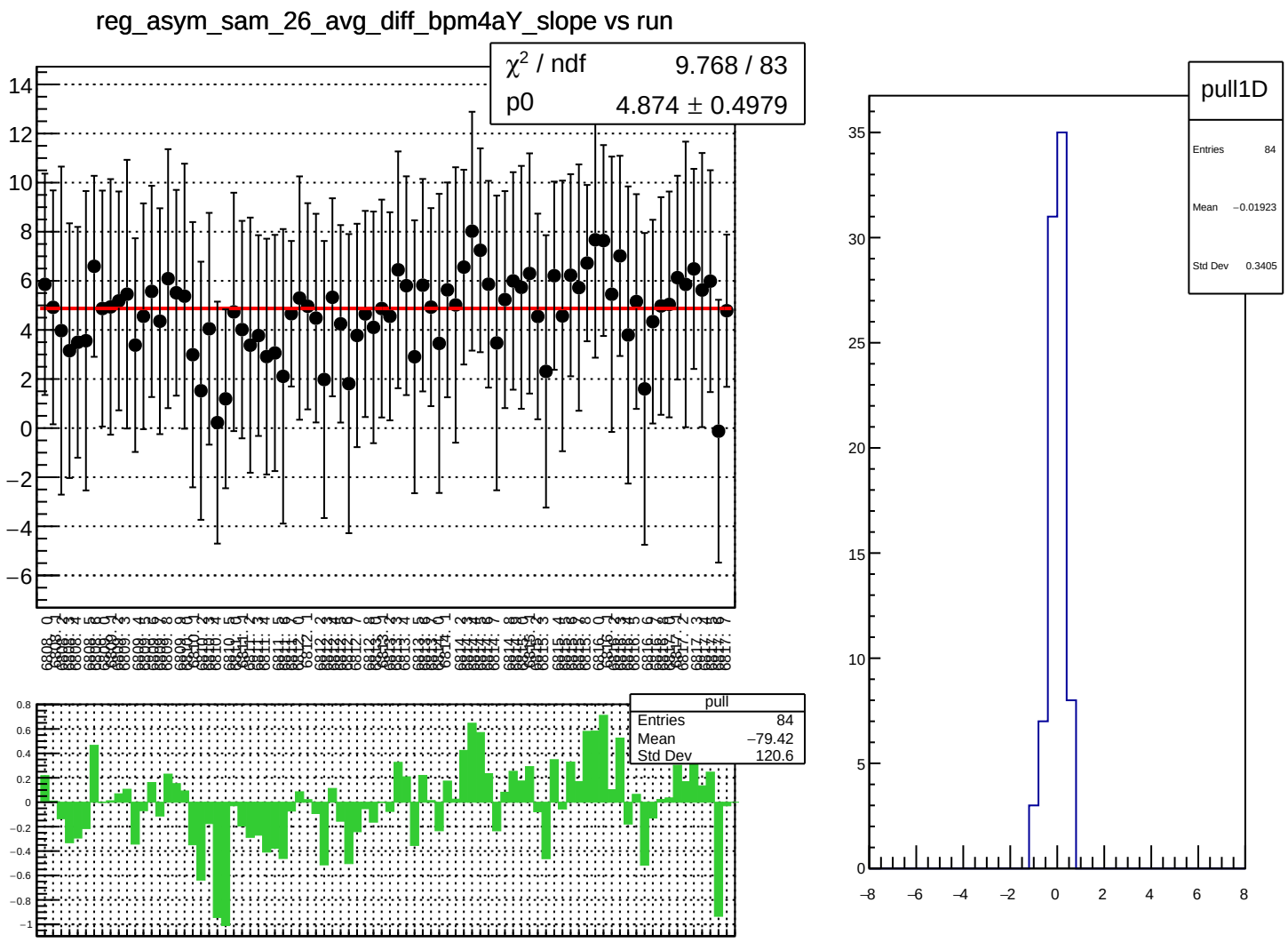

pull1D
Entries 84
Mean −0.01049
Std Dev 0.3778

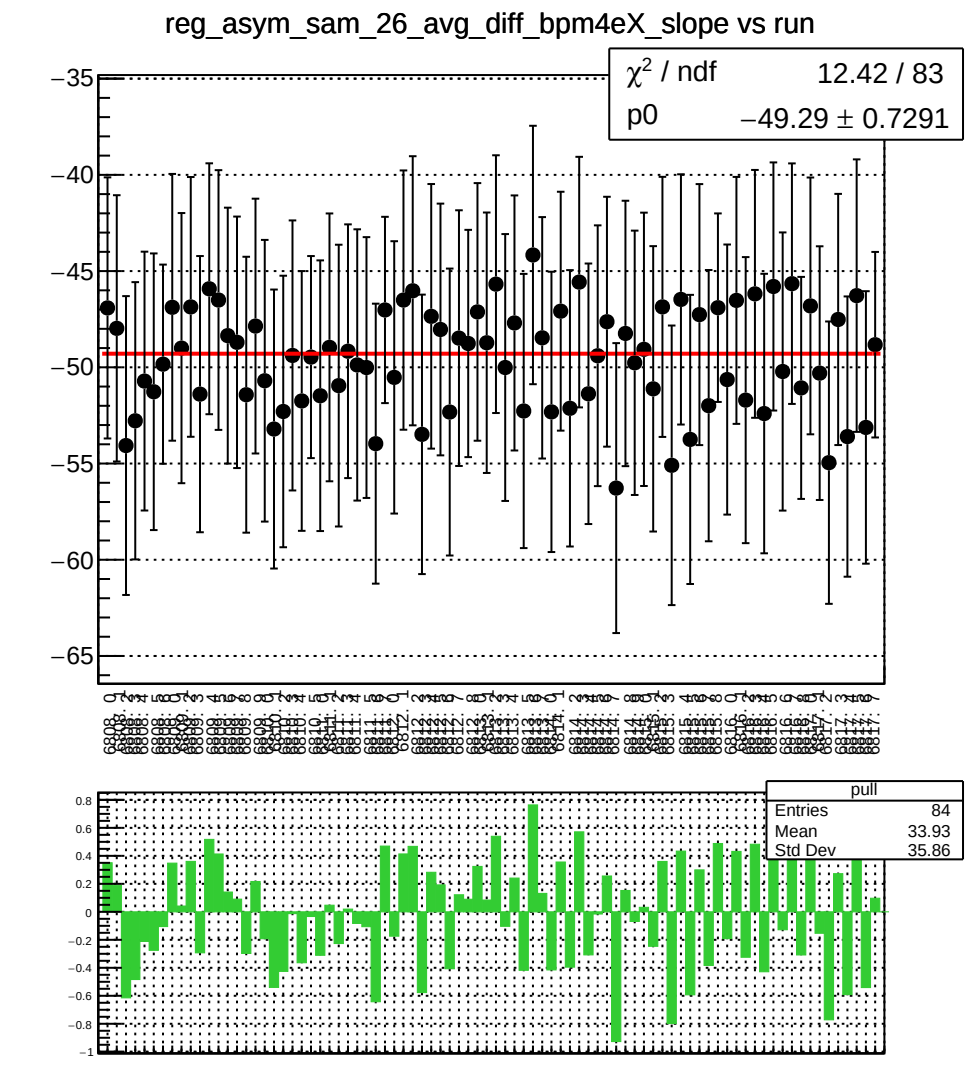

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.33 / 83
p0 20.94 ± 0.2744
pull
Entries 84
Mean 178.9
Std Dev 140
pull1D
Entries 84
Mean 0.01153
Std Dev 0.6008

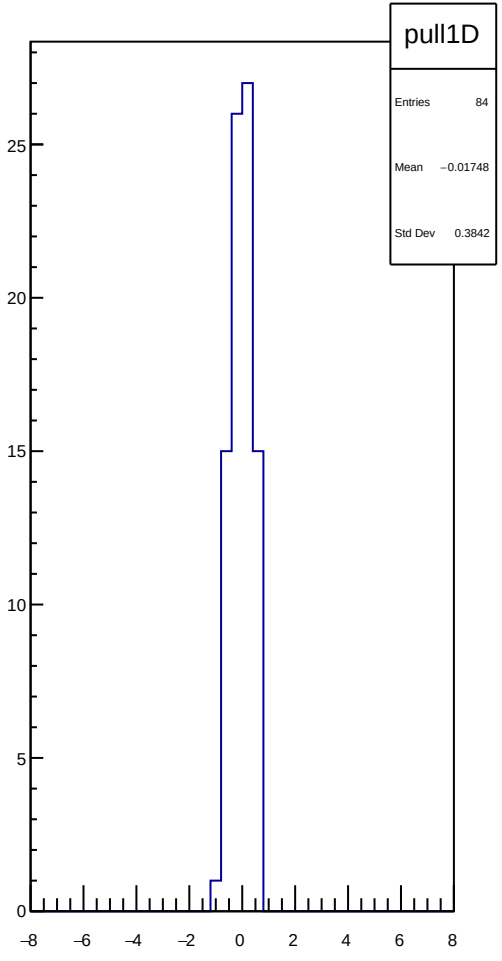

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 9.143 / 83
p0 −0.07394 ± 0.01444
pull
Entries 84
Mean 66.44
Std Dev 74.53

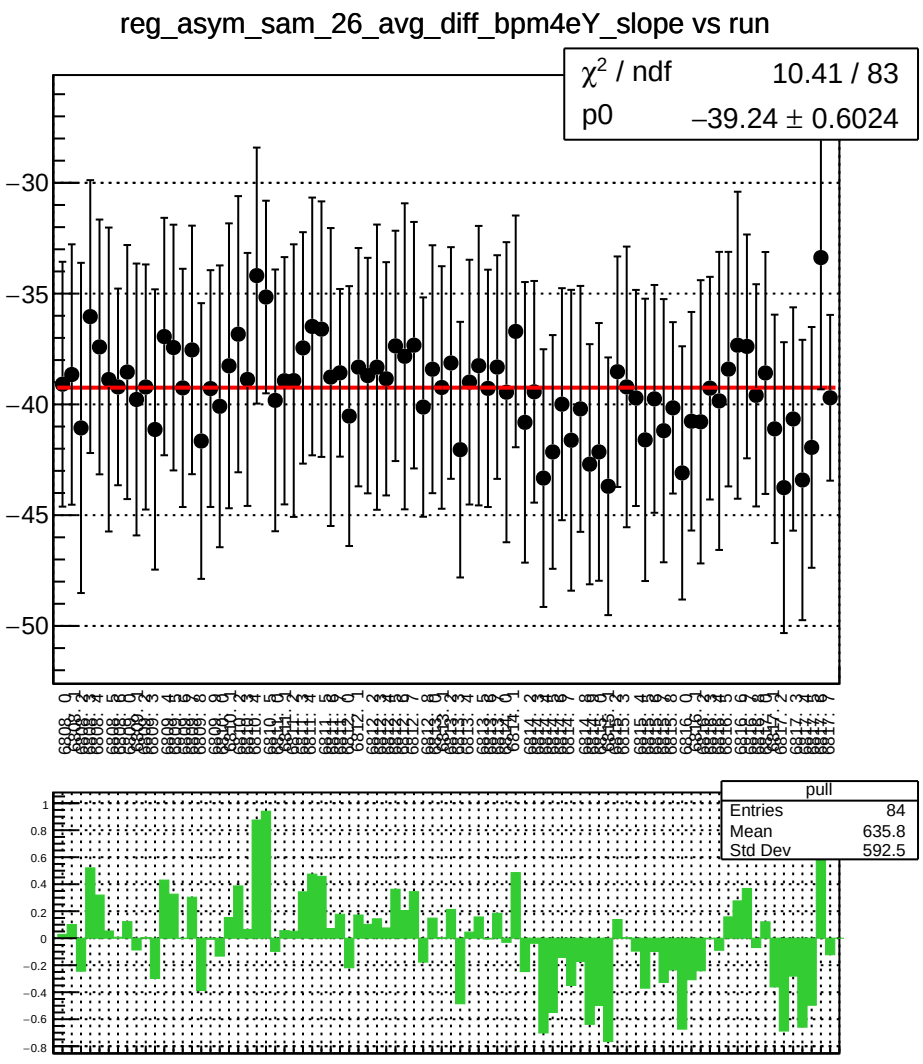

pull1D
Entries 84
Mean −0.00496
Std Dev 0.3299

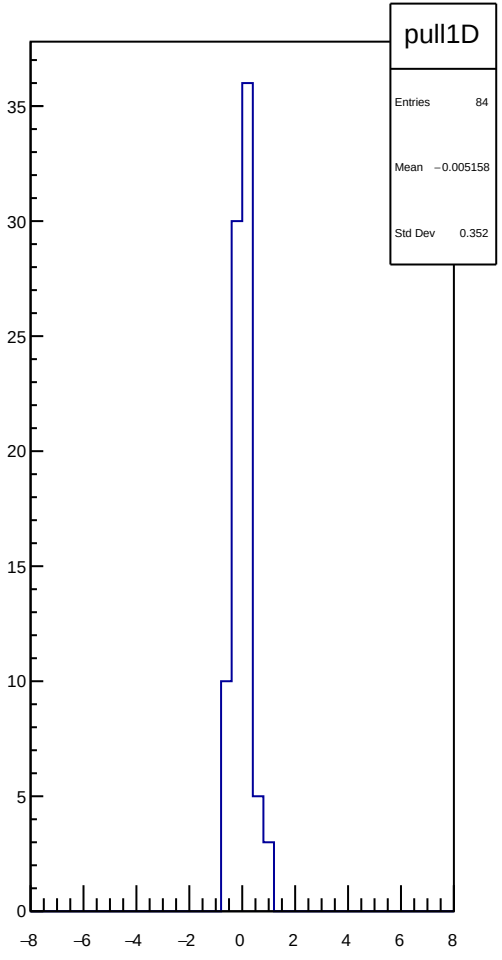

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 6.819 / 83
p0 −16.71 ± 0.7797
pull
Entries 84
Mean 186.9
Std Dev 107.7
pull1D
Entries 84
Mean 0.004577
Std Dev 0.2849

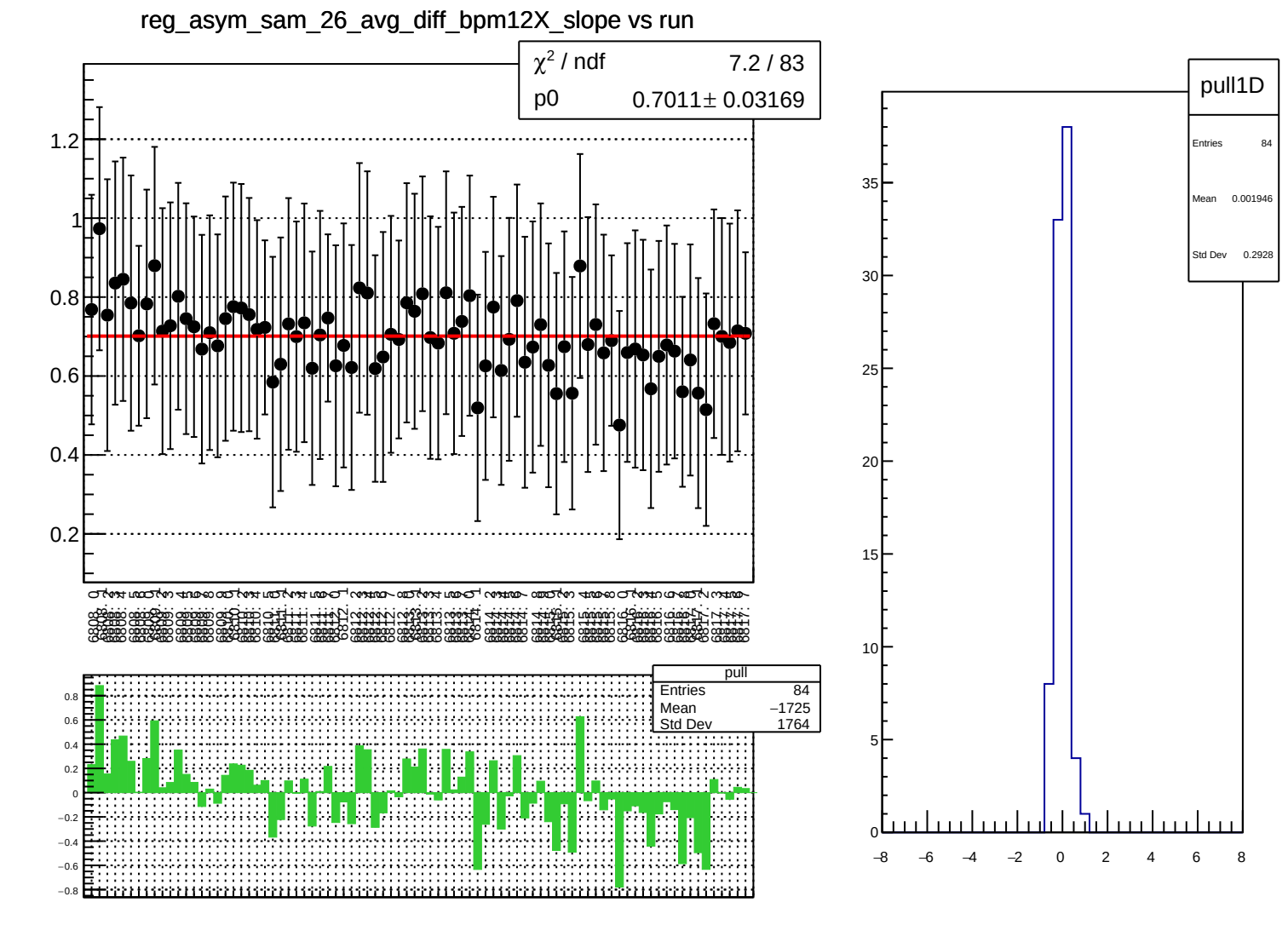

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.768 / 83
p0 4.874 ± 0.4979
pull
Entries 84
Mean −79.42
Std Dev 120.6
pull1D
Entries 84
Mean −0.01923
Std Dev 0.3405

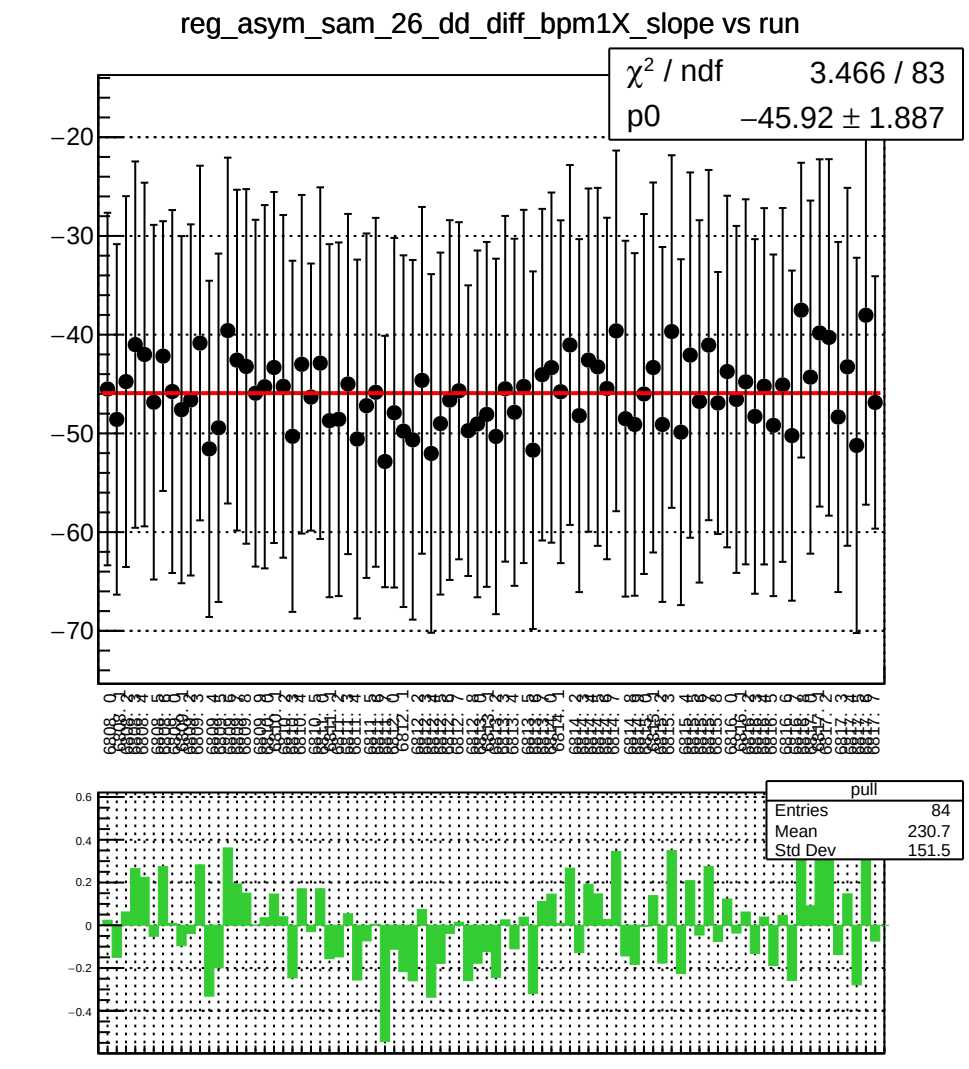

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.42 / 83
p0 −49.29 ± 0.7291
pull
Entries 84
Mean 33.93
Std Dev 35.86

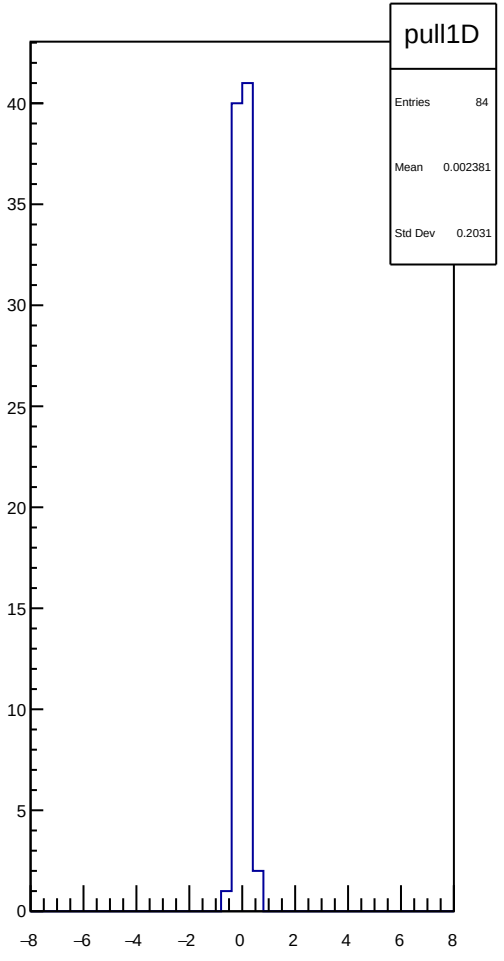

pull1D
Entries 84
Mean −0.01748
Std Dev 0.3842

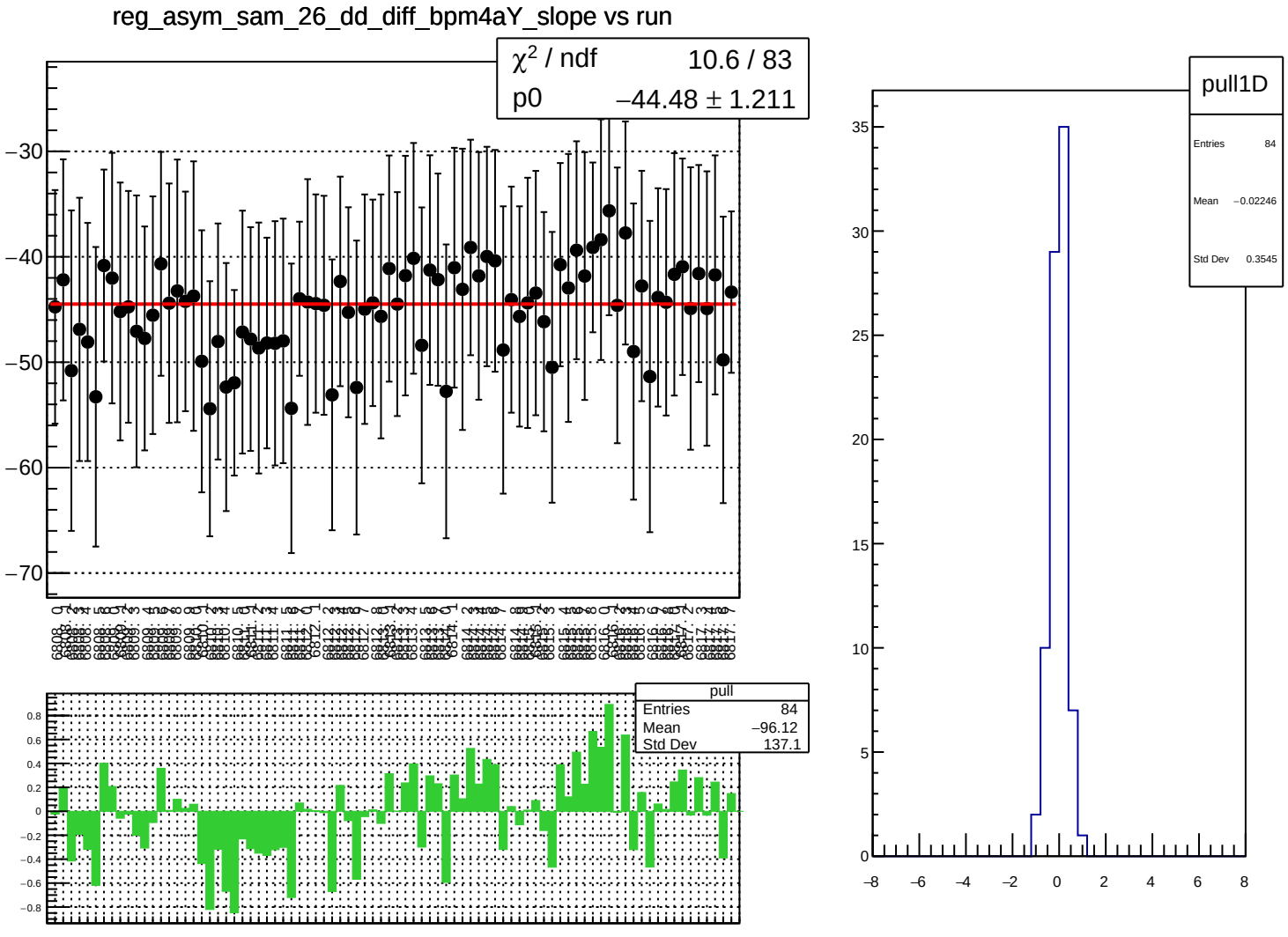

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.41 / 83
p0 −39.24 ± 0.6024
pull
Entries 84
Mean 635.8
Std Dev 592.5

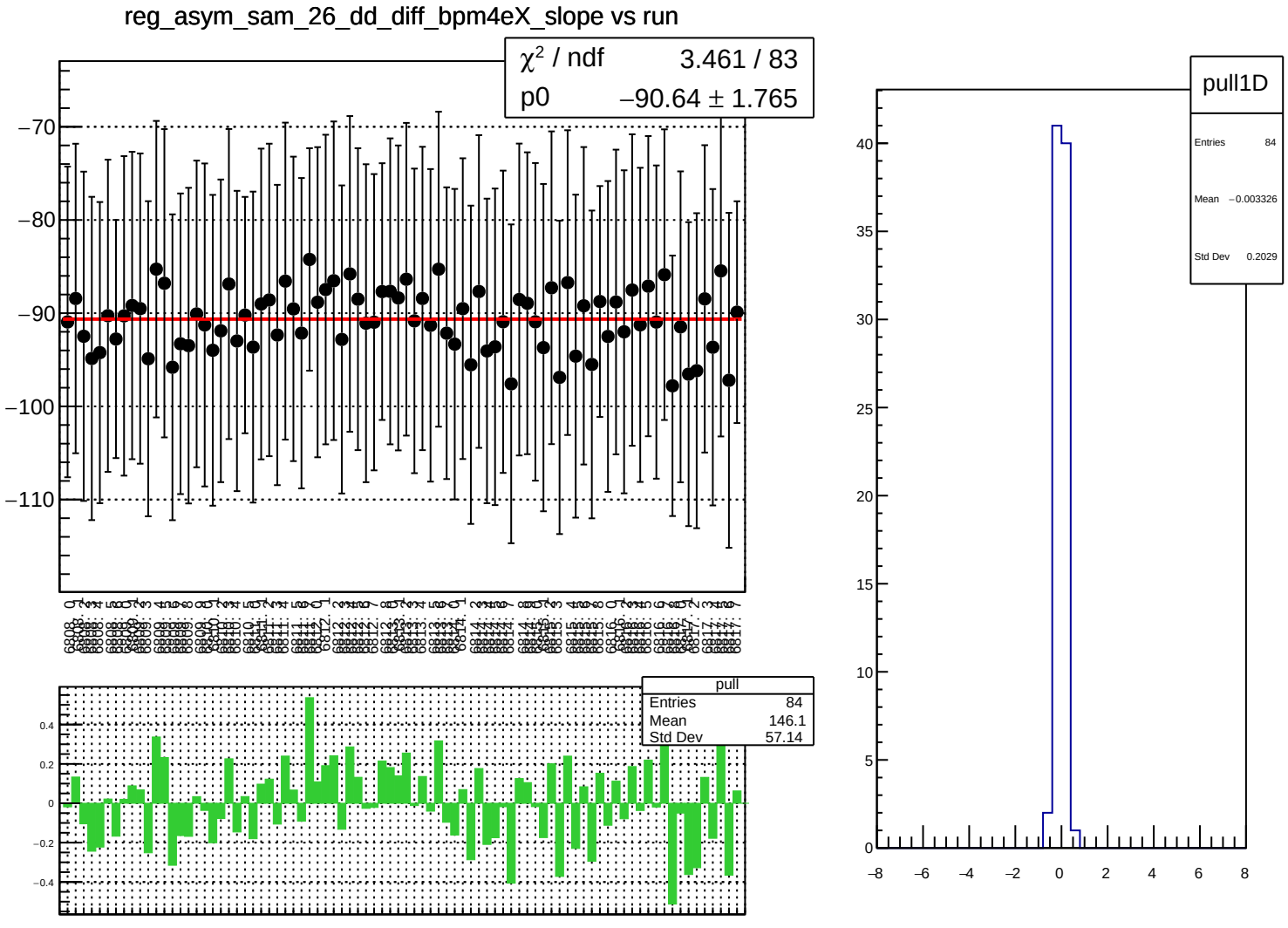

pull1D
Entries 84
Mean −0.005158
Std Dev 0.352

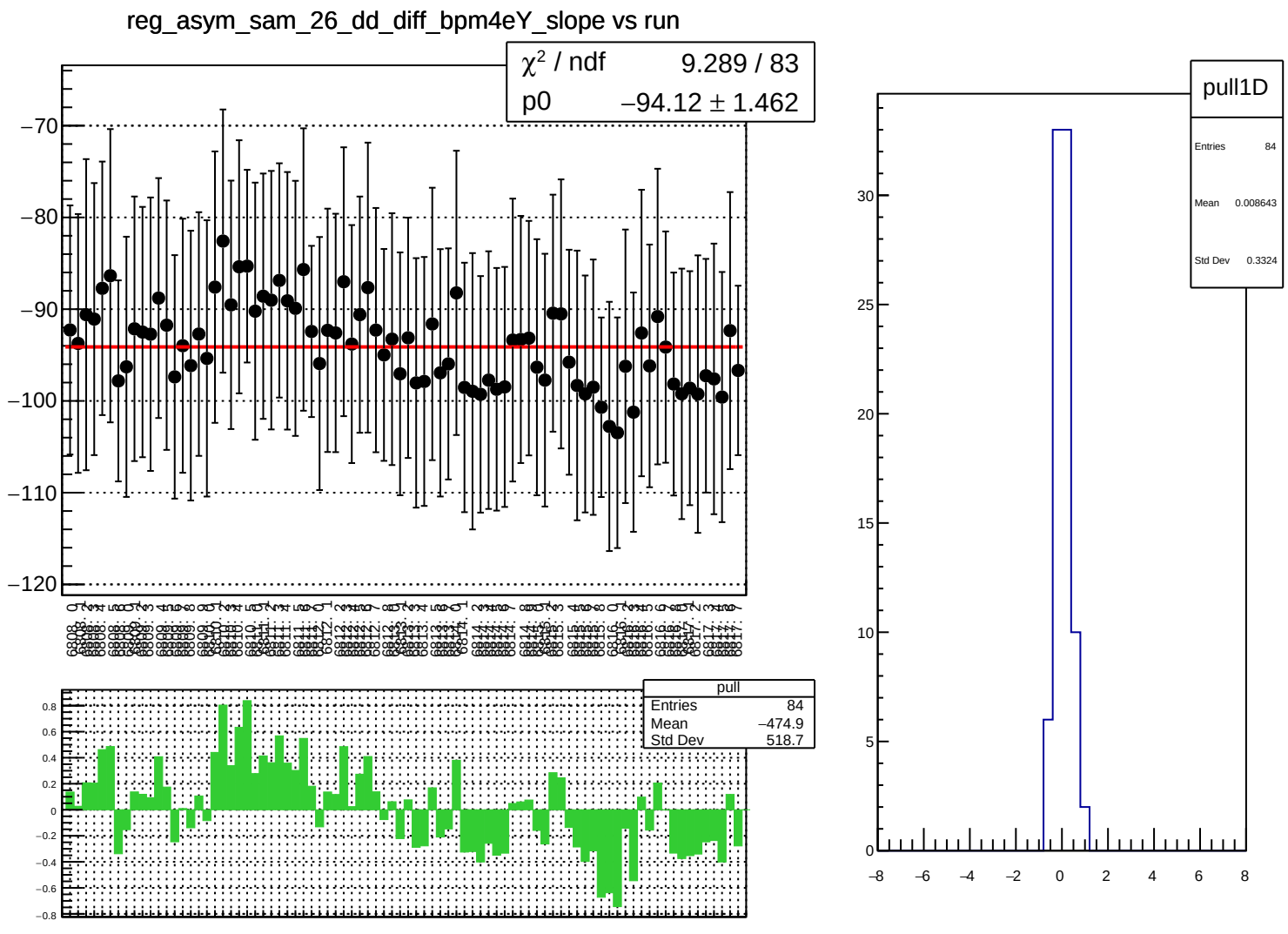

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 7.2 / 83
p0 0.7011± 0.03169
pull
Entries 84
Mean −1725
Std Dev 1764
pull1D
Entries 84
Mean 0.001946
Std Dev 0.2928

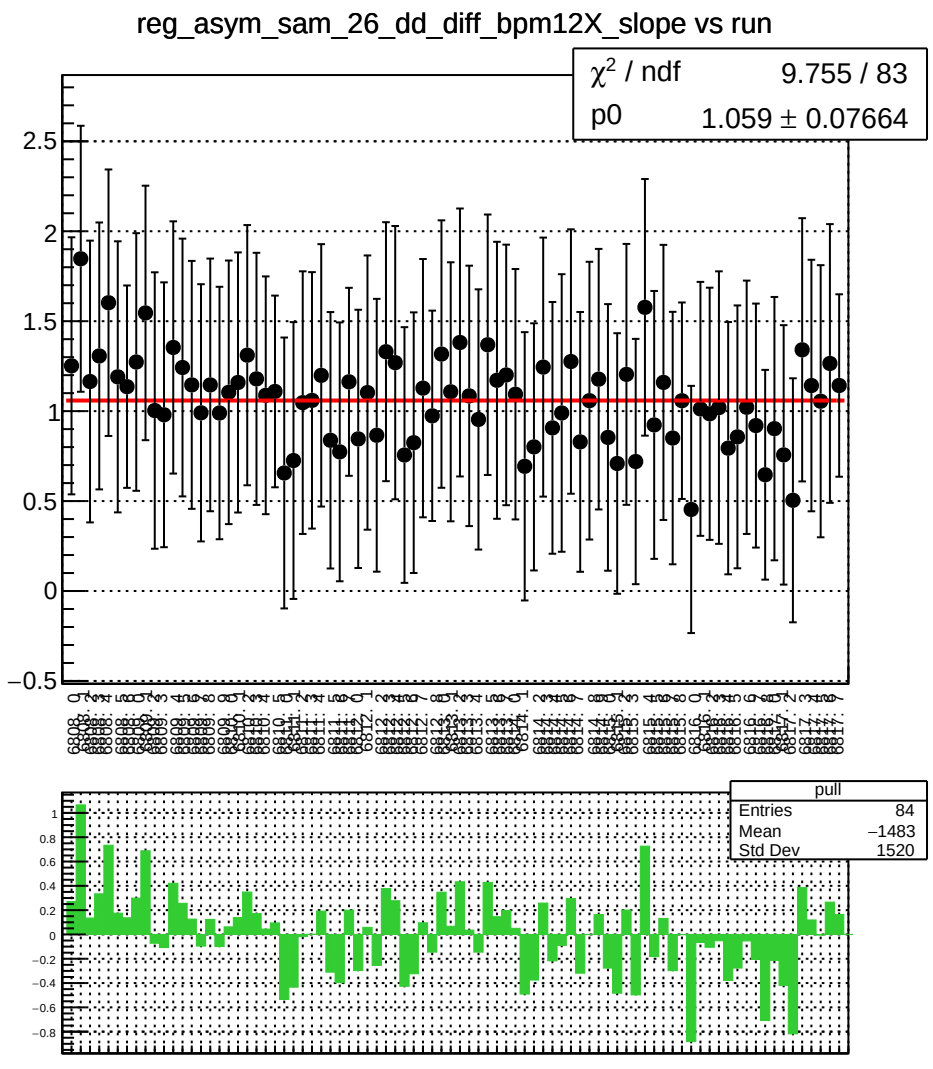

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 3.466 / 83
p0 −45.92 ± 1.887
pull
Entries 84
Mean 230.7
Std Dev 151.5

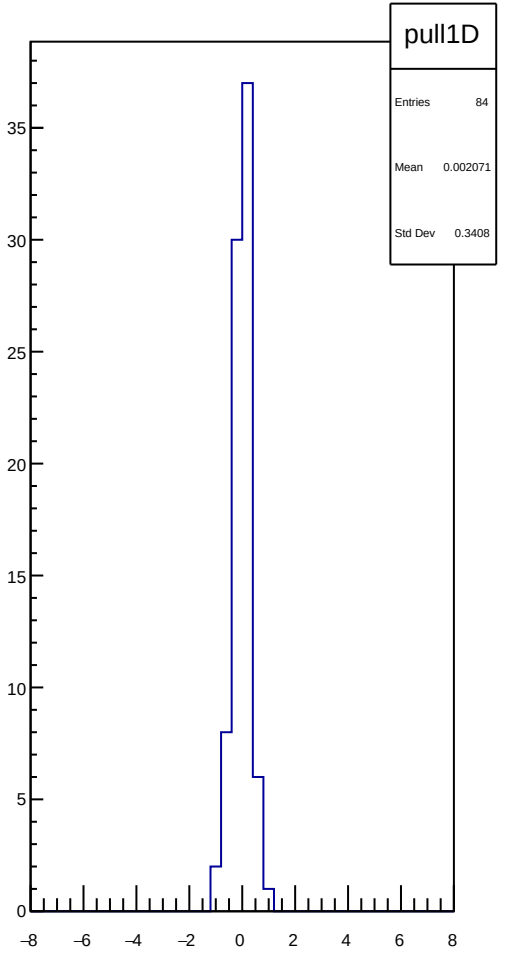

pull1D
Entries 84
Mean 0.002381
Std Dev 0.2031

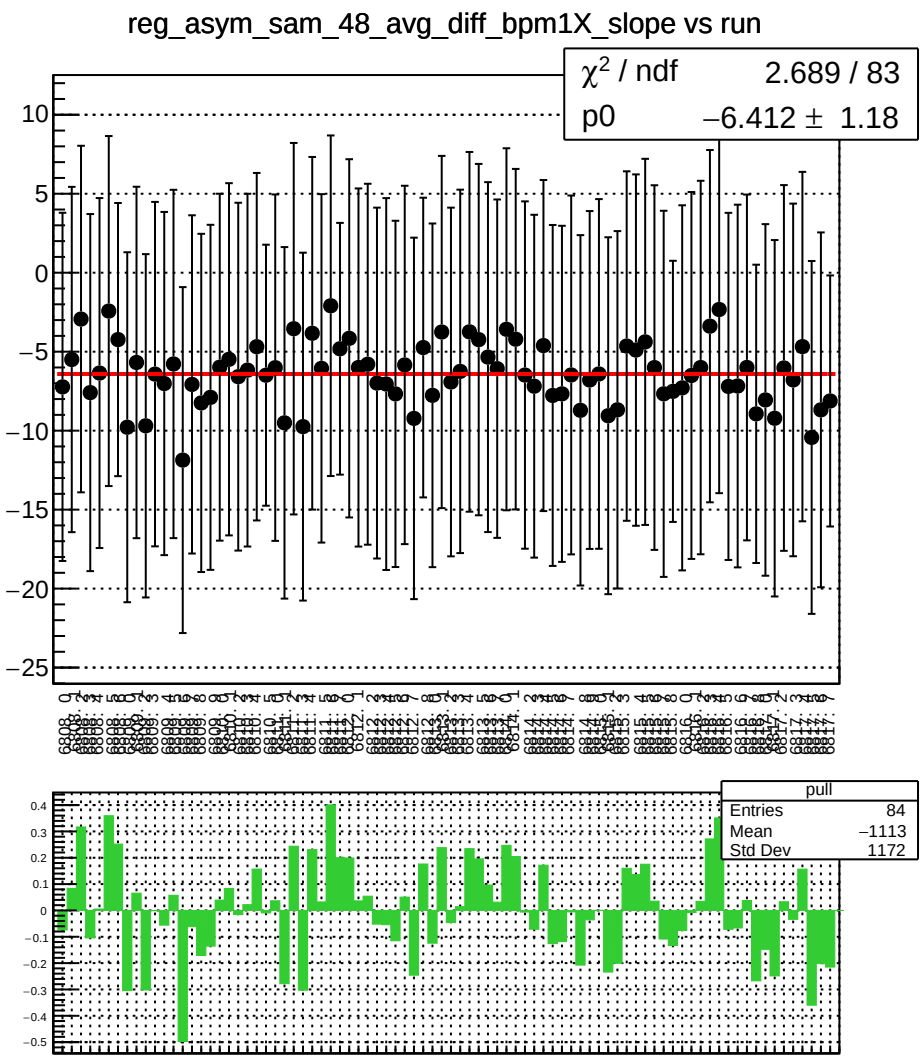

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.6 / 83
p0 −44.48 ± 1.211
−30
−40
−50
−60
−70
pull
Entries 84
Mean −96.12
Std Dev 137.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 84
Mean −0.02246
Std Dev 0.3545
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

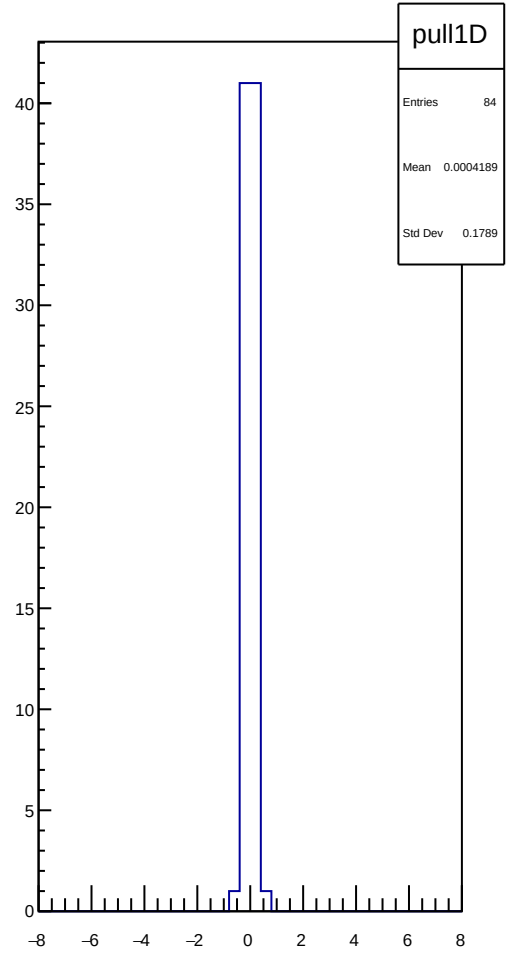

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.461 / 83
p0 −90.64 ± 1.765
−70
−80
−90
−100
−110
pull
Entries 84
Mean 146.1
Std Dev 57.14
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 84
Mean −0.003326
Std Dev 0.2029
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

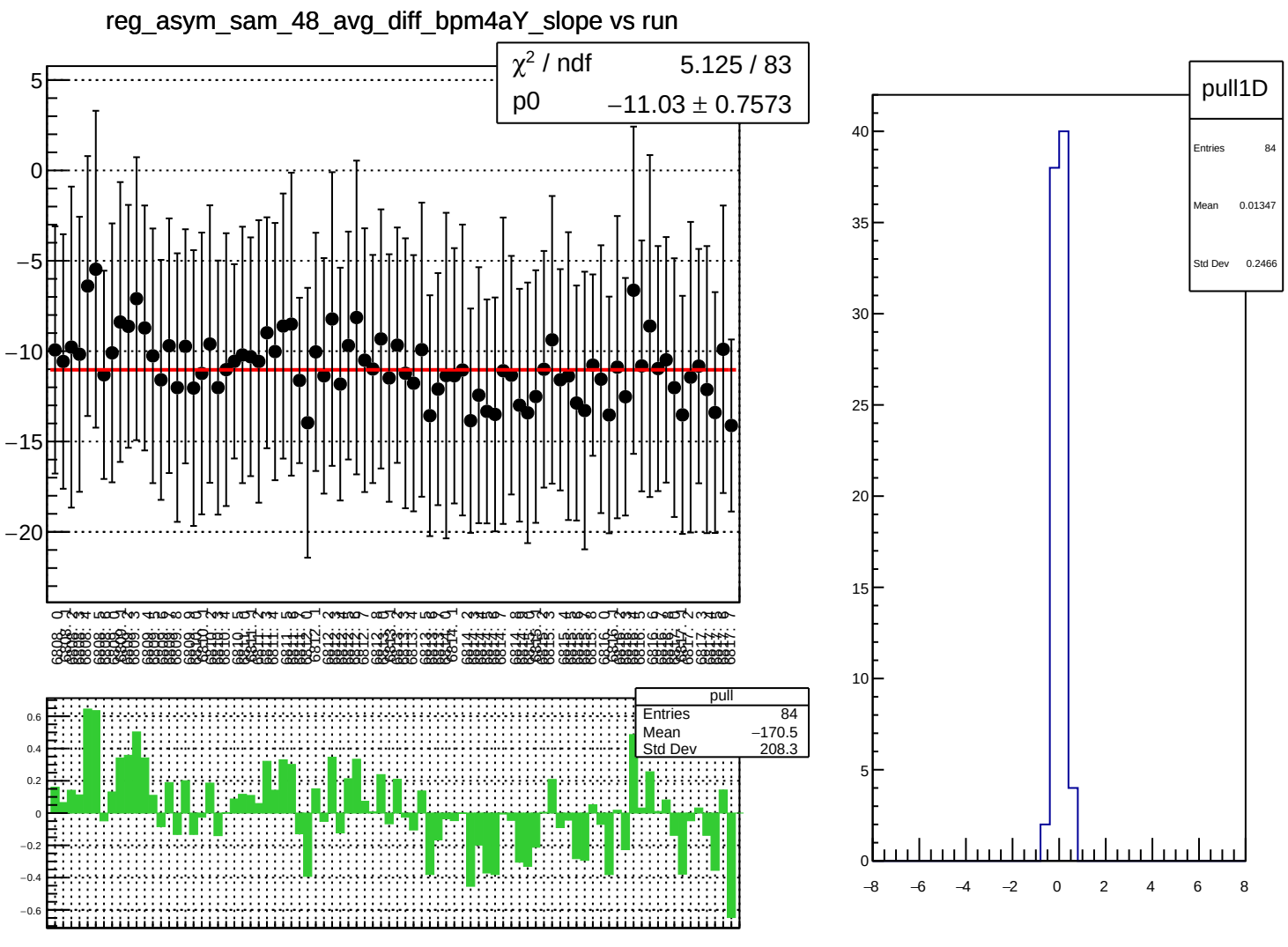

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.289 / 83
p0 −94.12 ± 1.462
pull
Entries 84
Mean −474.9
Std Dev 518.7
pull1D
Entries 84
Mean 0.008643
Std Dev 0.3324

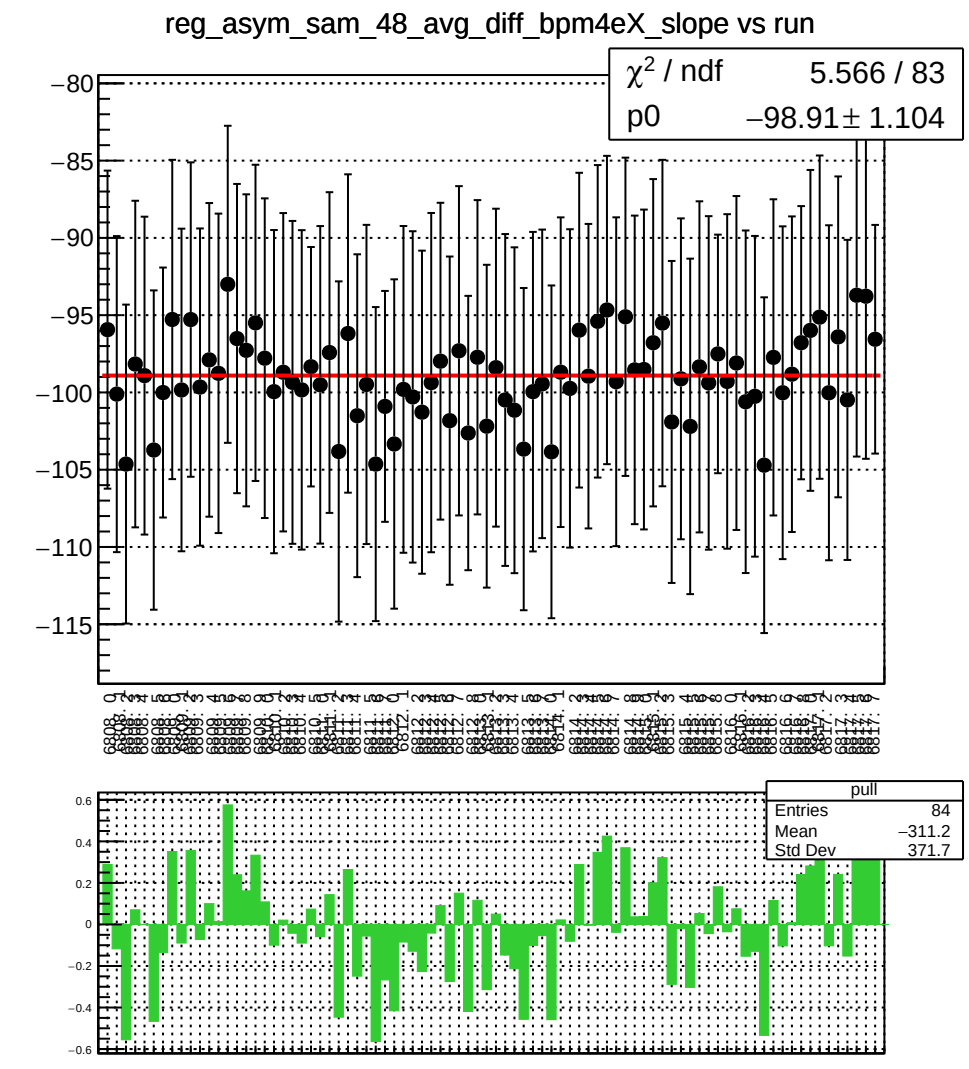

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 9.755 / 83
p0 1.059 ± 0.07664
pull
Entries 84
Mean −1483
Std Dev 1520

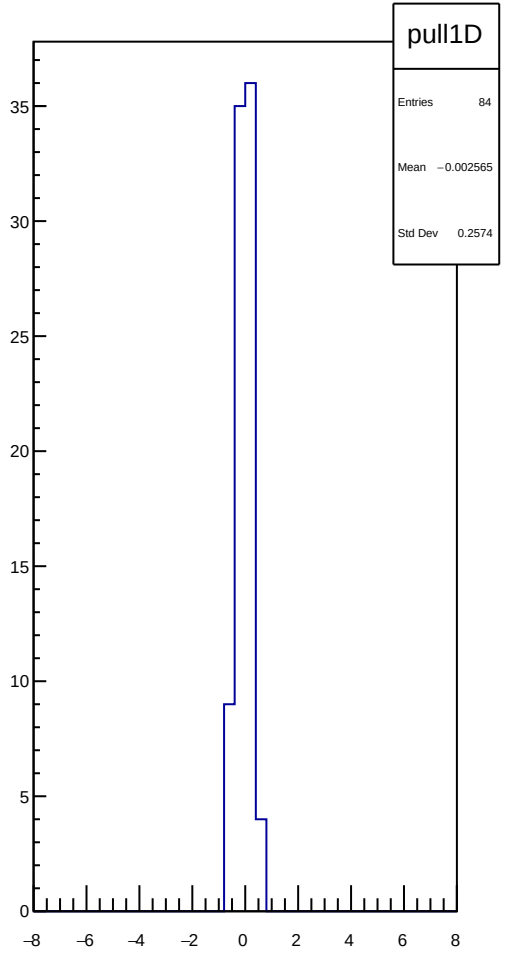

pull1D
Entries 84
Mean 0.002071
Std Dev 0.3408

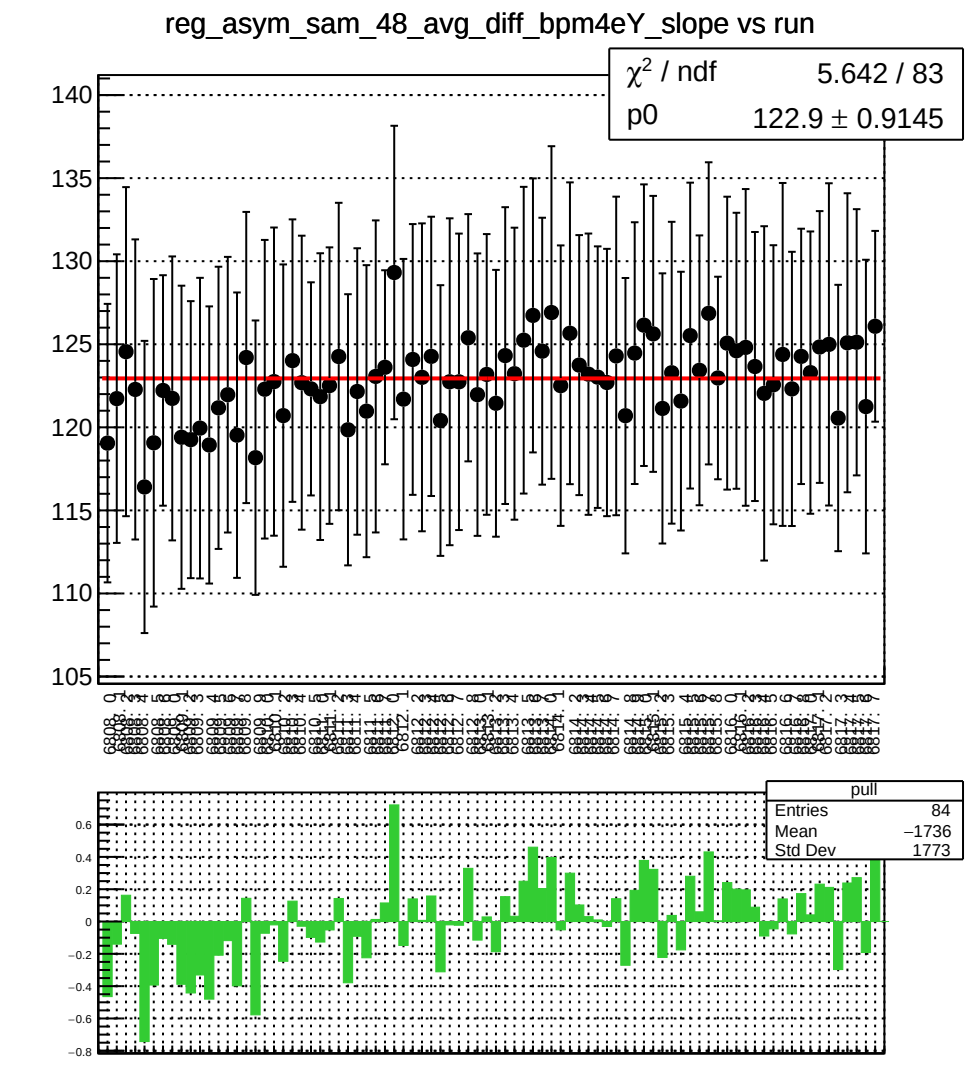

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 2.689 / 83
p0 −6.412 ± 1.18
pull
Entries 84
Mean −1113
Std Dev 1172

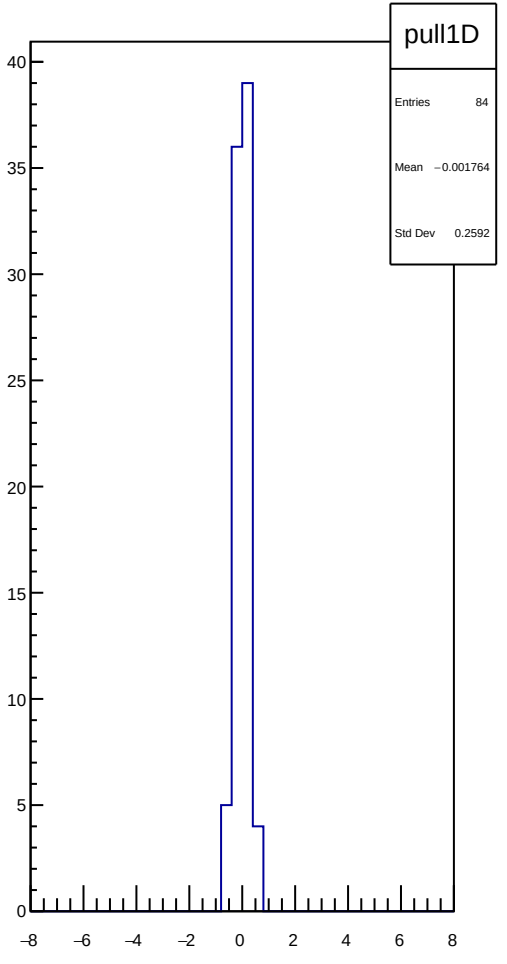

pull1D
Entries 84
Mean 0.0004189
Std Dev 0.1789

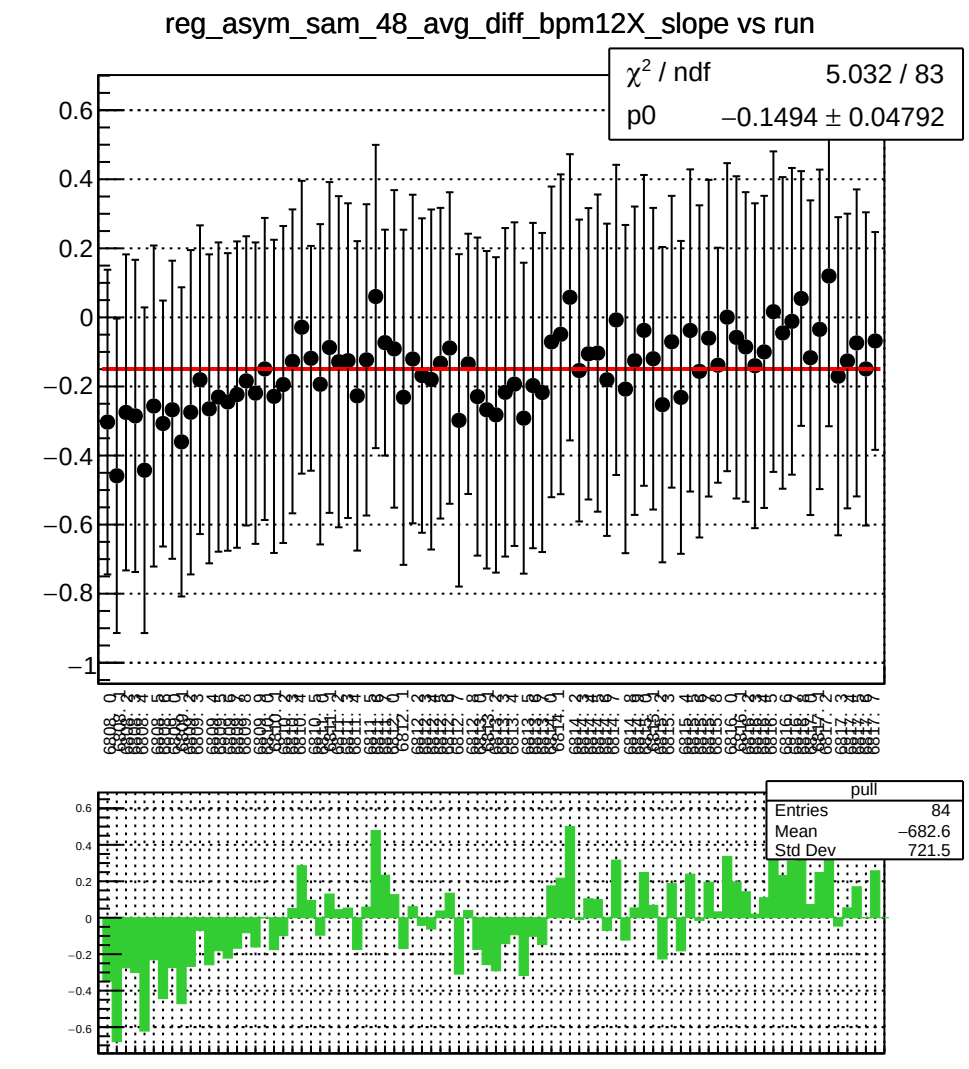

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.125 / 83
p0 −11.03 ± 0.7573
pull
Entries 84
Mean −170.5
Std Dev 208.3
pull1D
Entries 84
Mean 0.01347
Std Dev 0.2466

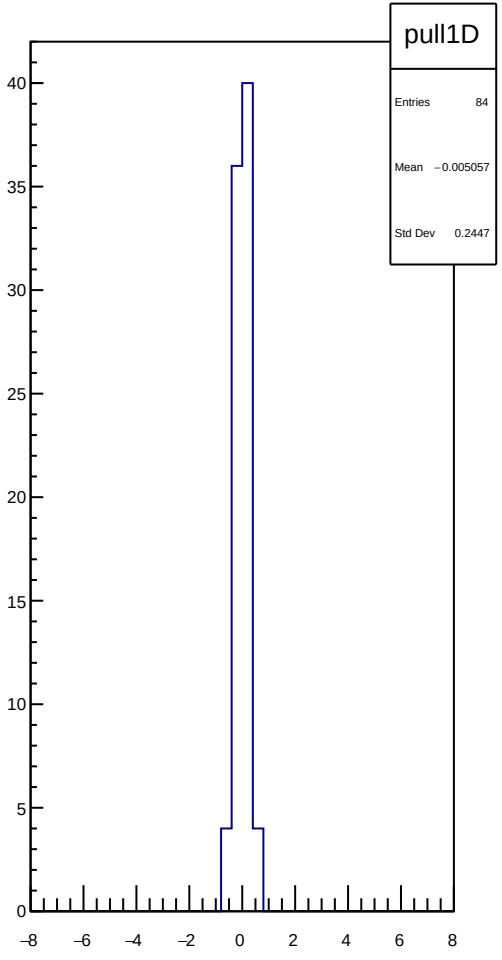

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.566 / 83
p0 −98.91 ± 1.104
pull
Entries 84
Mean −311.2
Std Dev 371.7

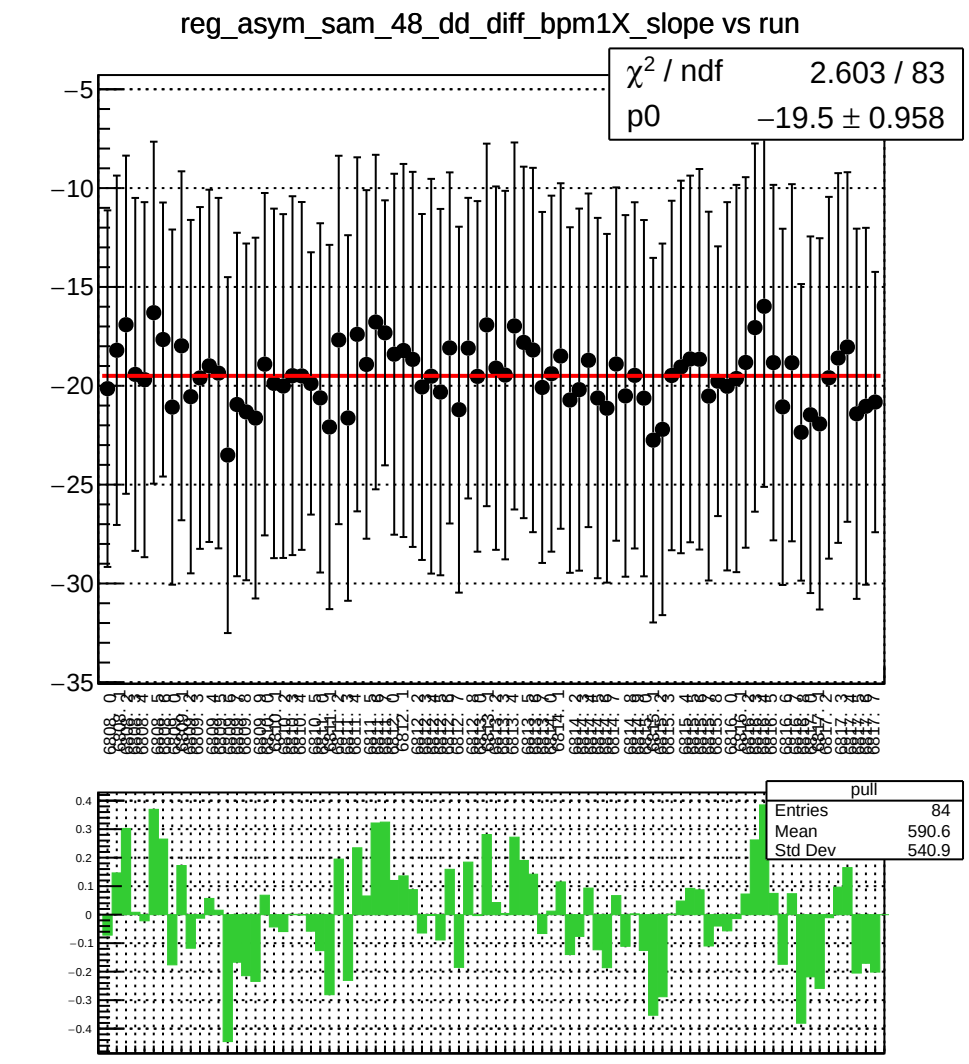

pull1D
Entries 84
Mean −0.002565
Std Dev 0.2574

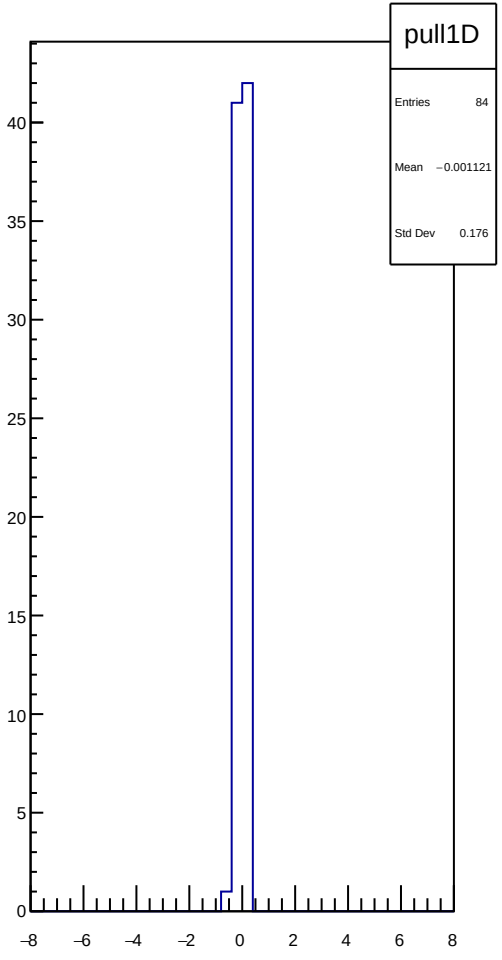

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.642 / 83
p0 122.9 ± 0.9145
140
135
130
125
120
115
110
105
pull
Entries 84
Mean −1736
Std Dev 1773
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

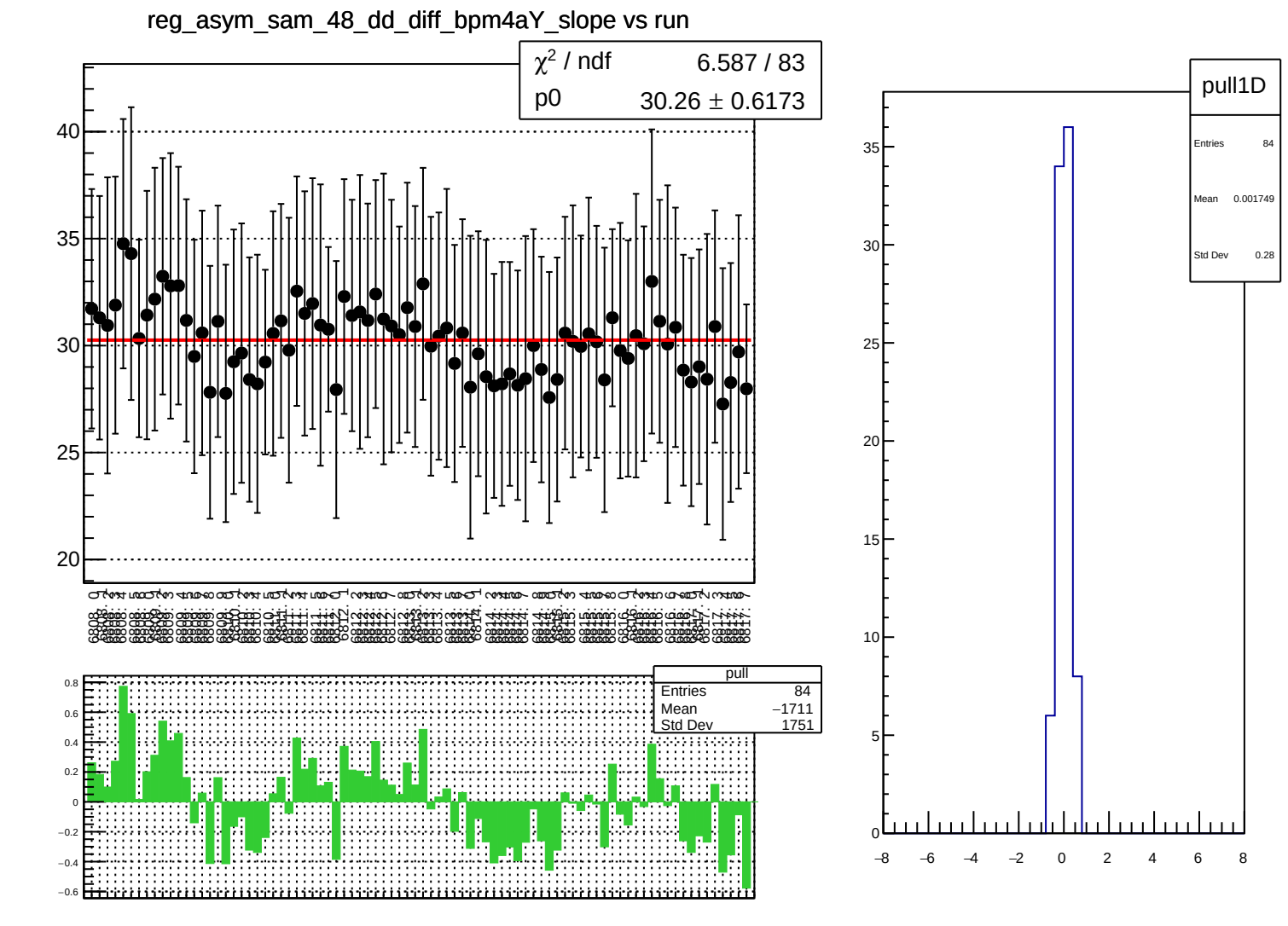

pull1D
Entries 84
Mean −0.001764
Std Dev 0.2592
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

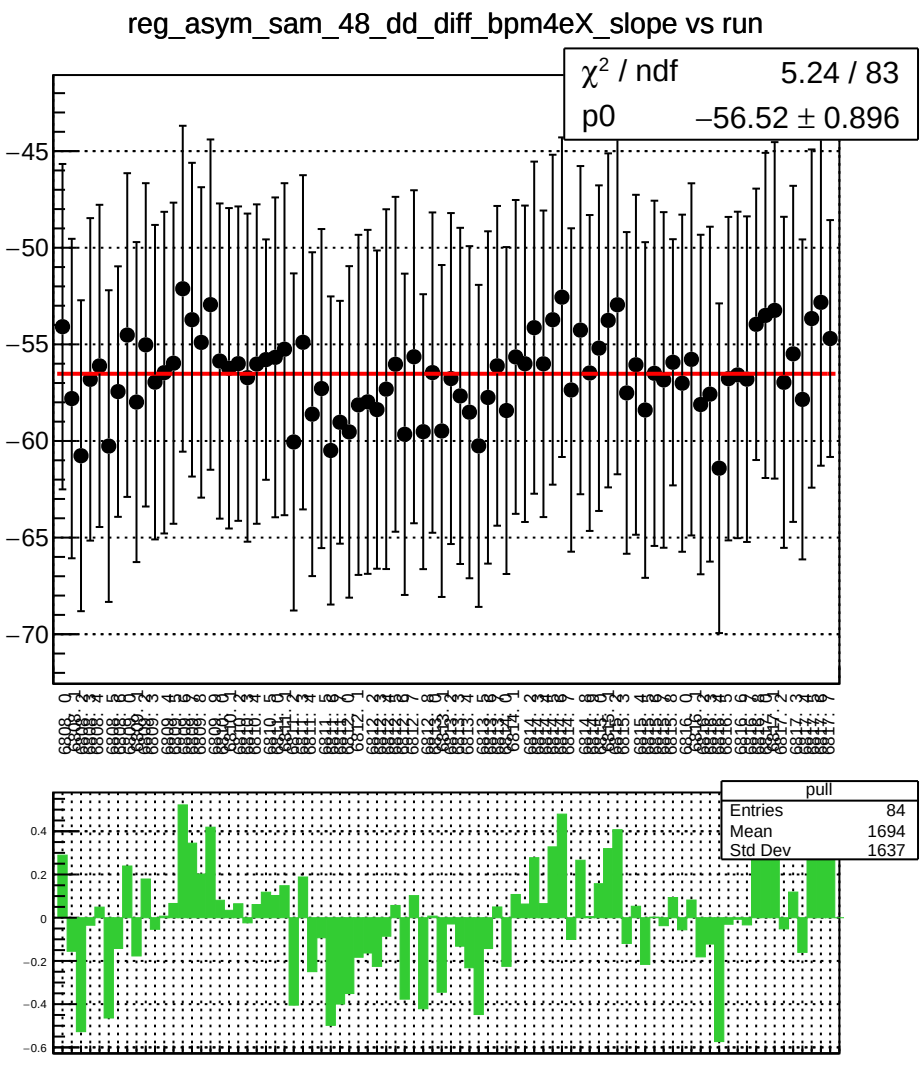

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 5.032 / 83
p0 −0.1494 ± 0.04792
pull
Entries 84
Mean −682.6
Std Dev 721.5

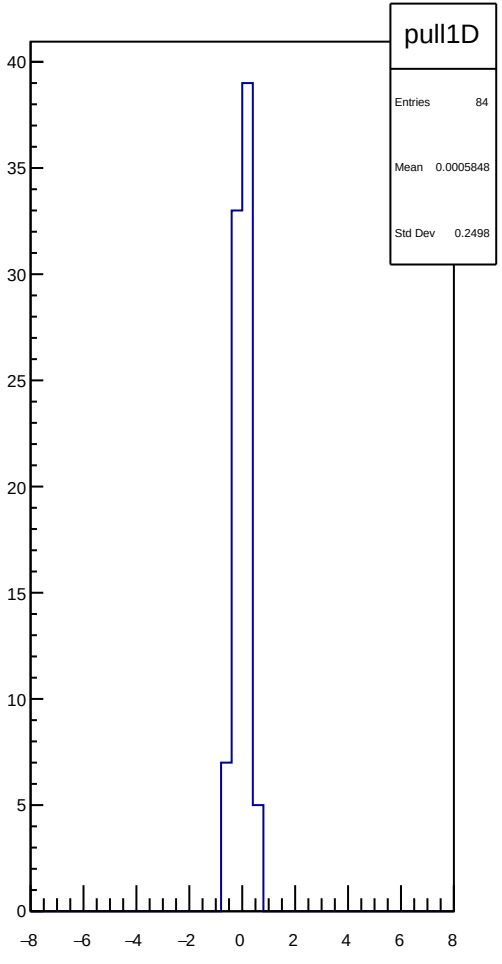

pull1D
Entries 84
Mean −0.005057
Std Dev 0.2447

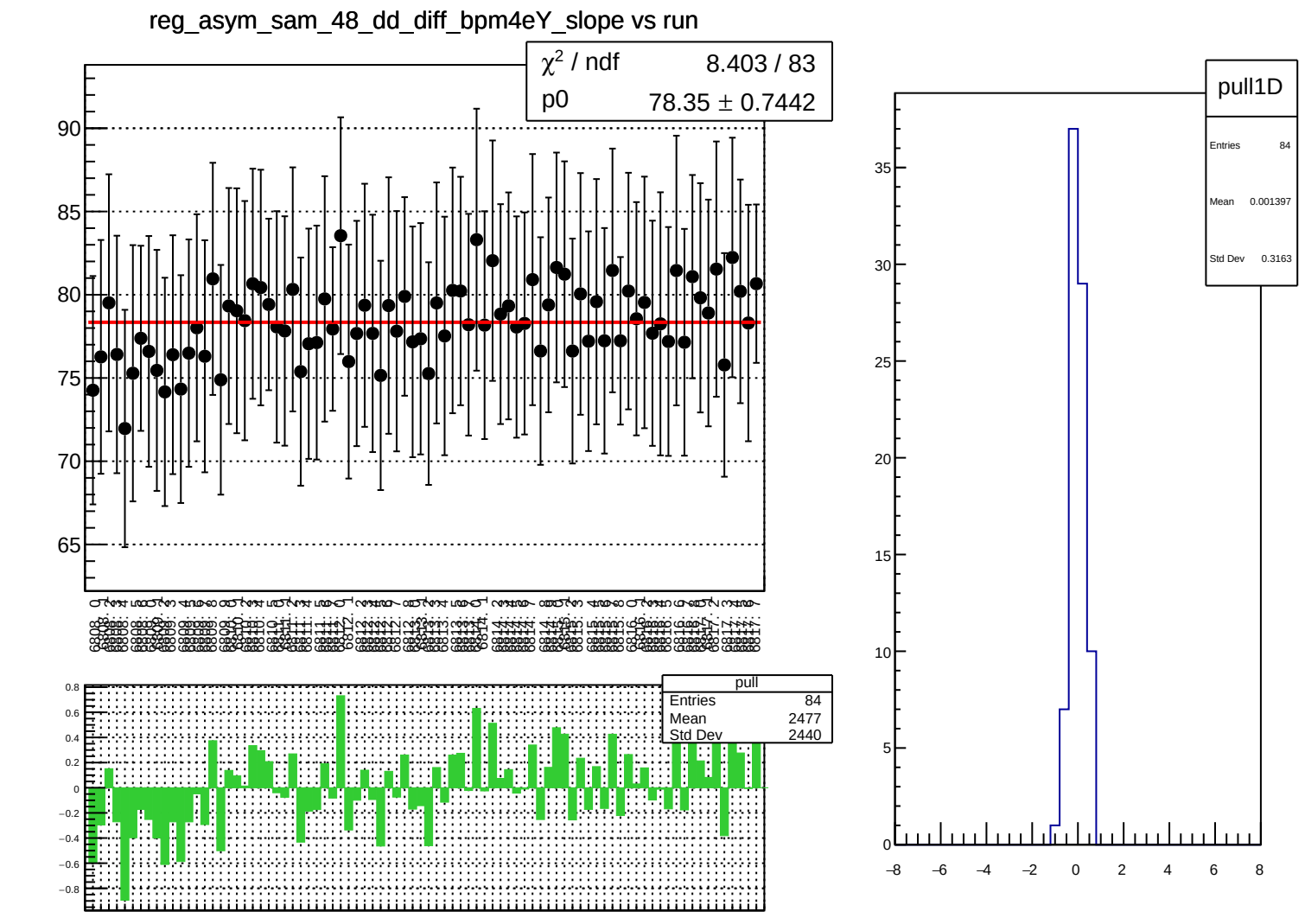

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.603 / 83
p0 −19.5 ± 0.958
pull
Entries 84
Mean 590.6
Std Dev 540.9

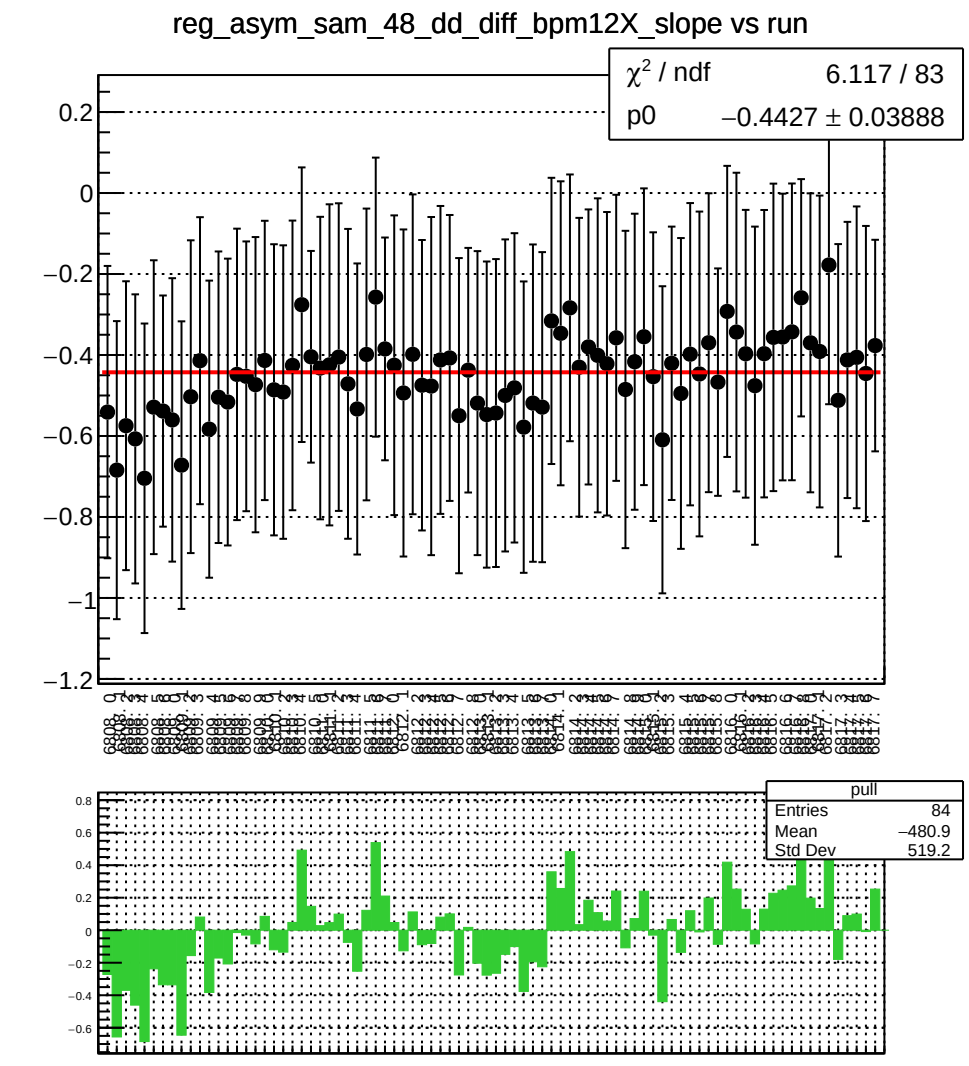

pull1D
Entries 84
Mean −0.001121
Std Dev 0.176

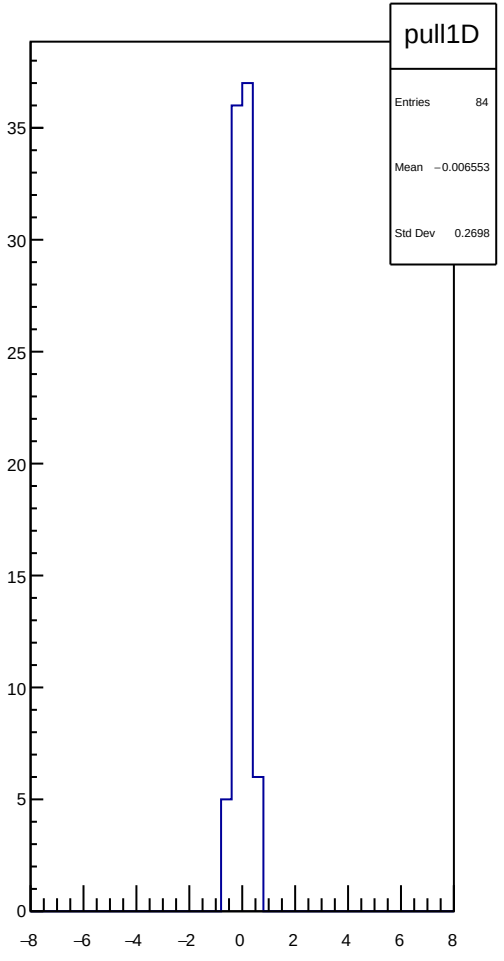

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.587 / 83
p0 30.26 ± 0.6173
pull
Entries 84
Mean −1711
Std Dev 1751
pull1D
Entries 84
Mean 0.001749
Std Dev 0.28

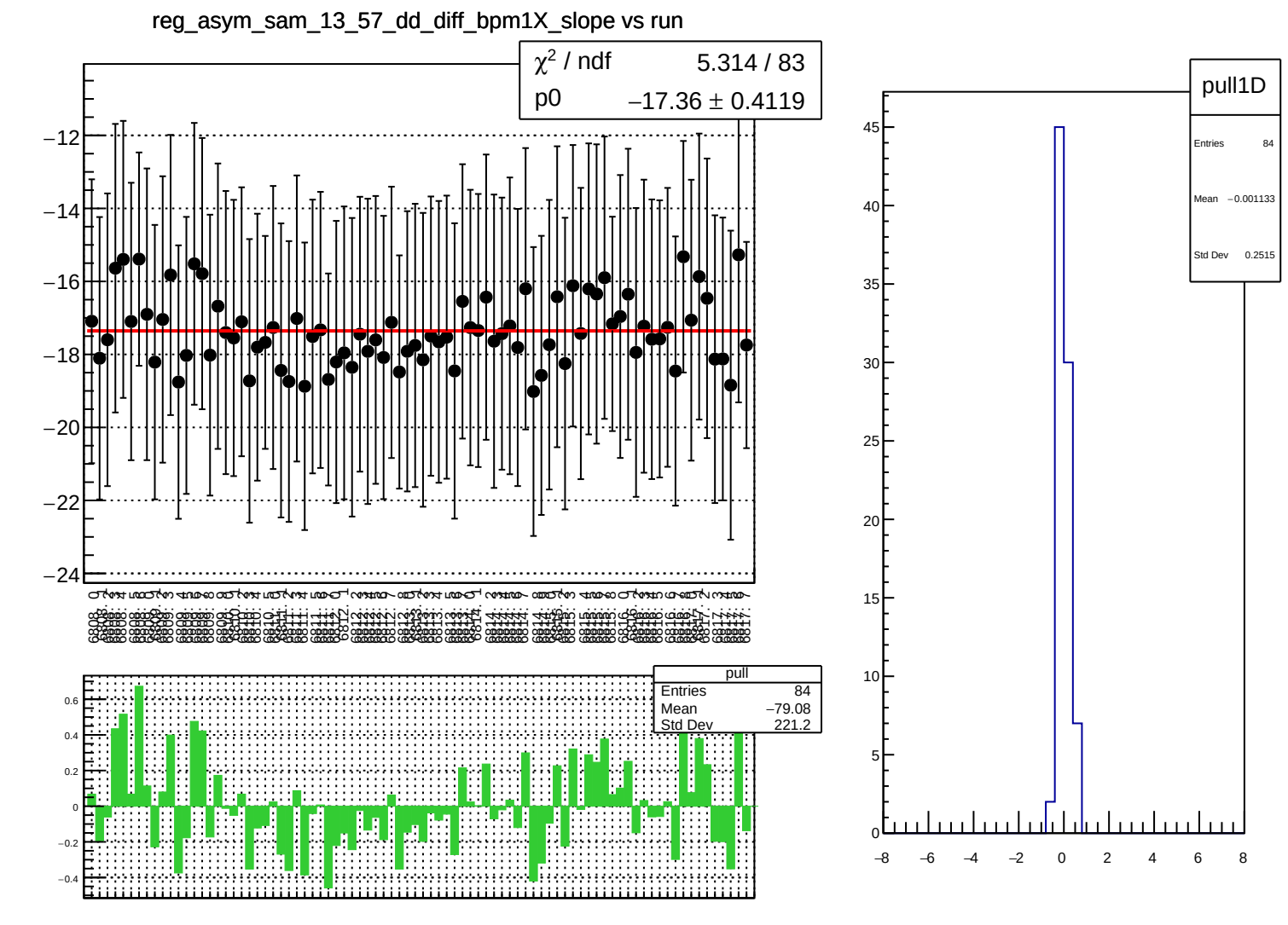

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.24 / 83
p0 −56.52 ± 0.896
−45
−50
−55
−60
−65
−70
pull
Entries 84
Mean 1694
Std Dev 1637
0.4
0.2
0
−0.2
−0.4
−0.6

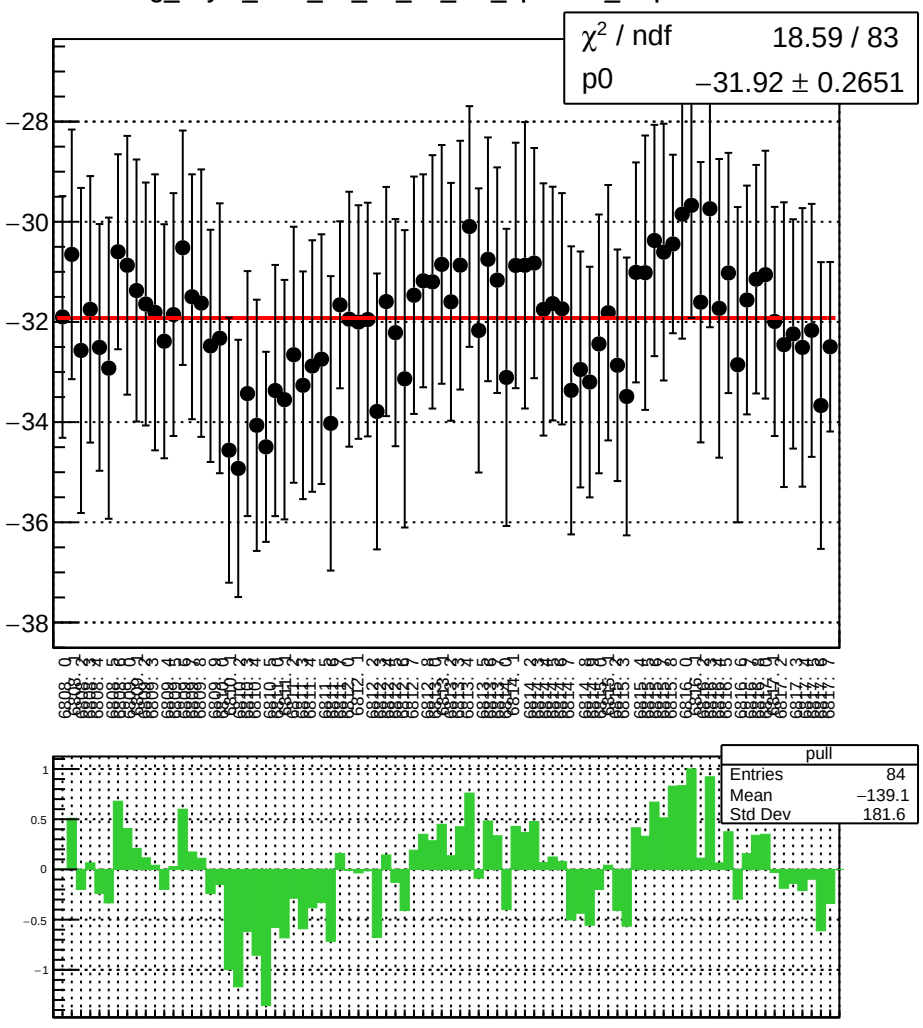

pull1D
Entries 84
Mean 0.0005848
Std Dev 0.2498
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

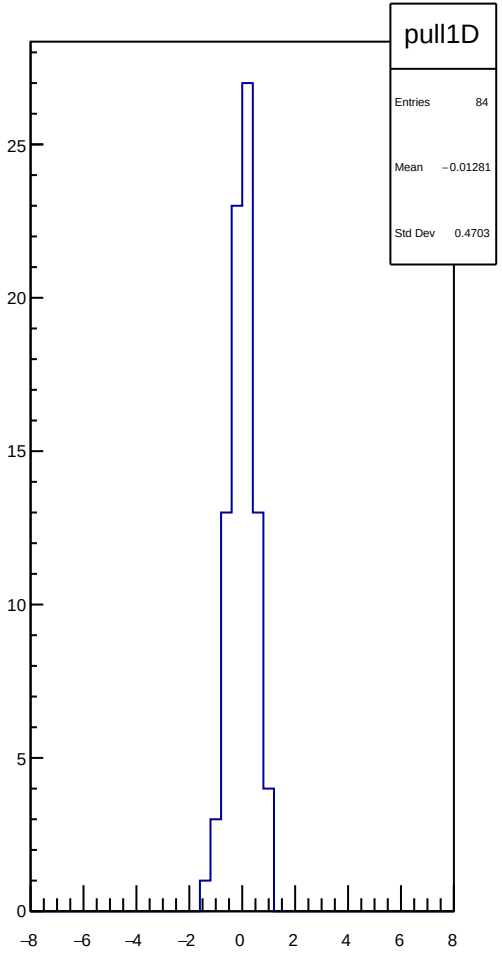

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.403 / 83
p0 78.35 ± 0.7442
pull
Entries 84
Mean 2477
Std Dev 2440
pull1D
Entries 84
Mean 0.001397
Std Dev 0.3163

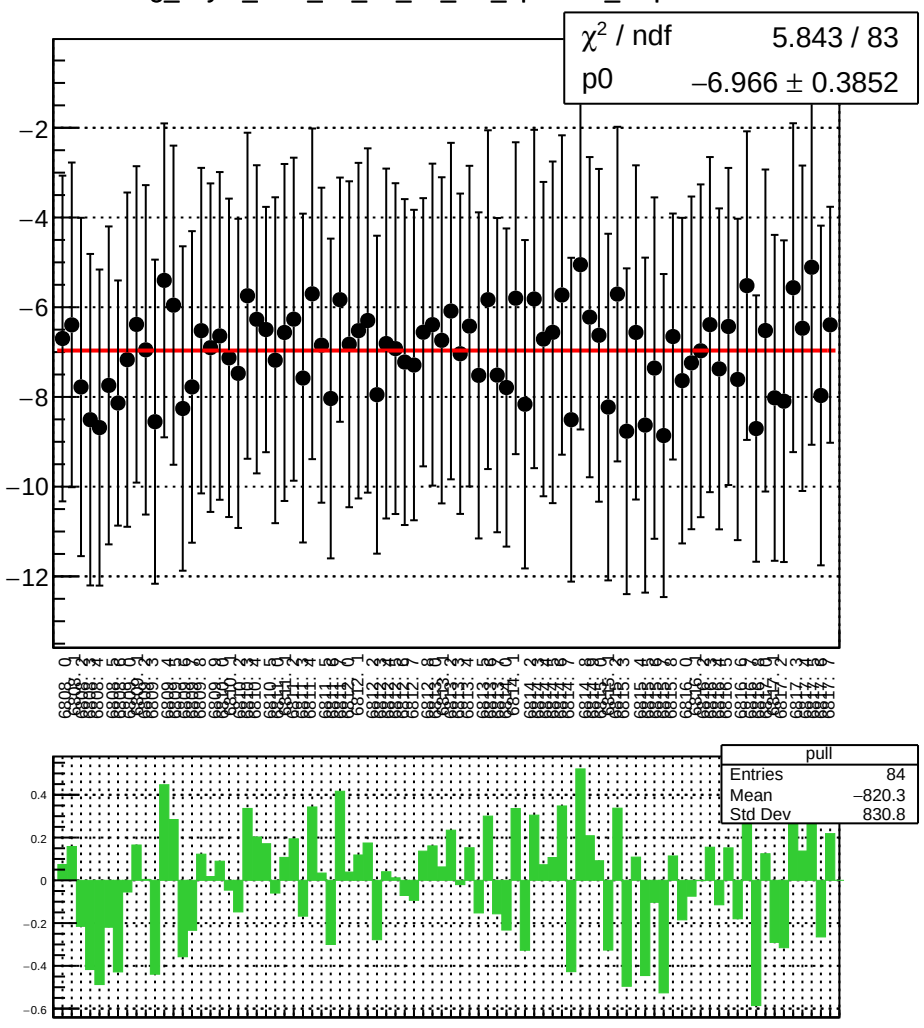

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 6.117 / 83
p0 −0.4427 ± 0.03888
pull
Entries 84
Mean −480.9
Std Dev 519.2

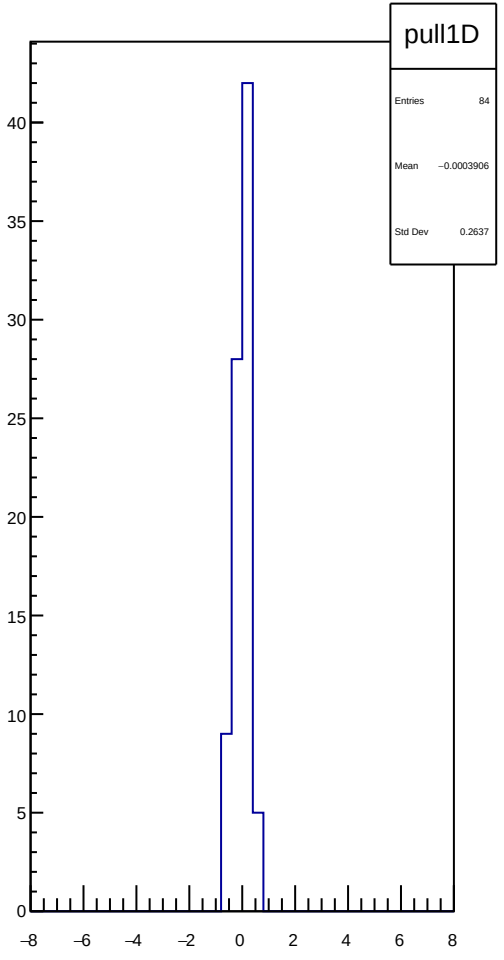

pull1D
Entries 84
Mean −0.006553
Std Dev 0.2698

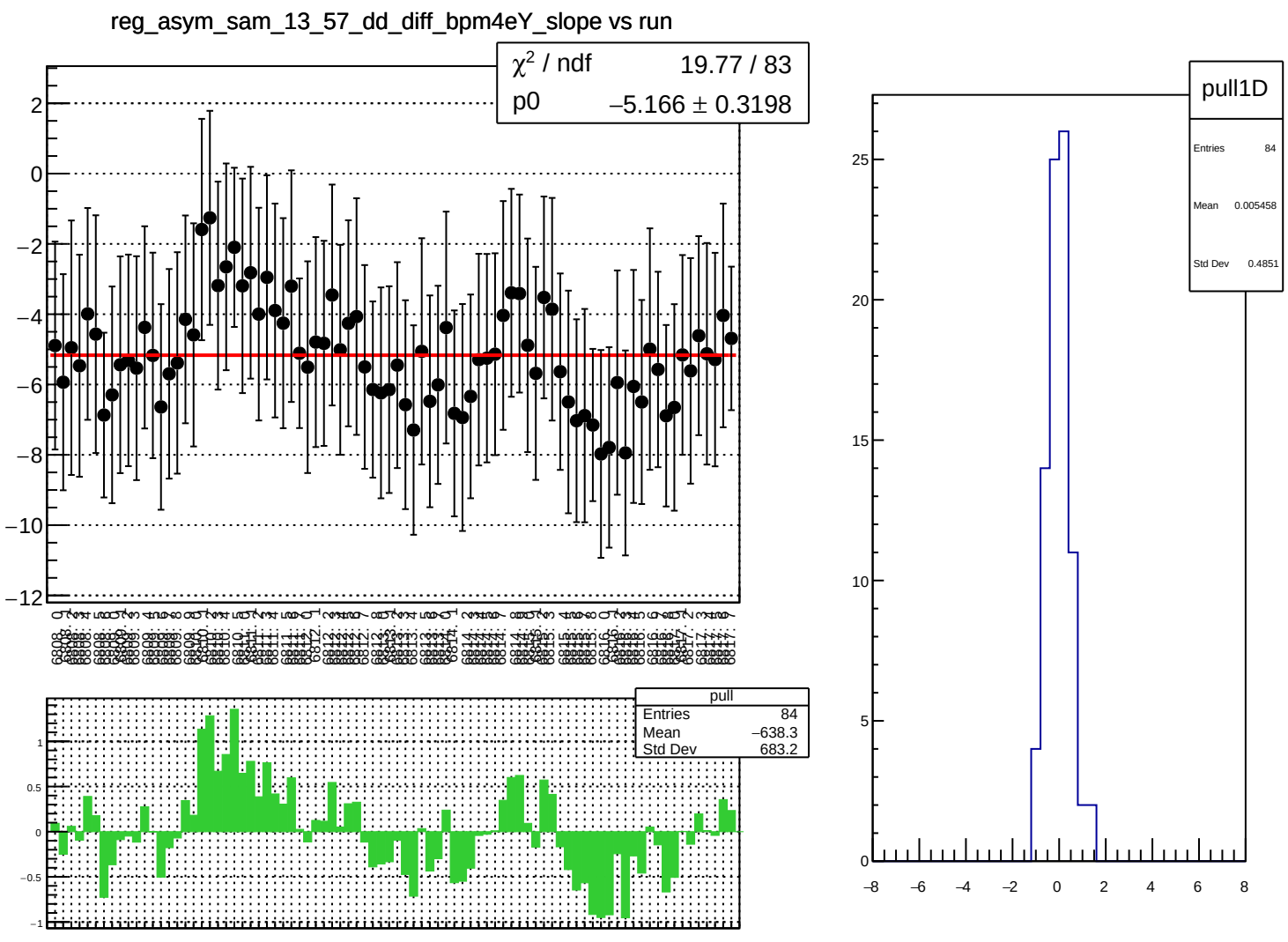

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 5.314 / 83
p0 −17.36 ± 0.4119
pull
Entries 84
Mean −79.08
Std Dev 221.2
pull1D
Entries 84
Mean −0.001133
Std Dev 0.2515

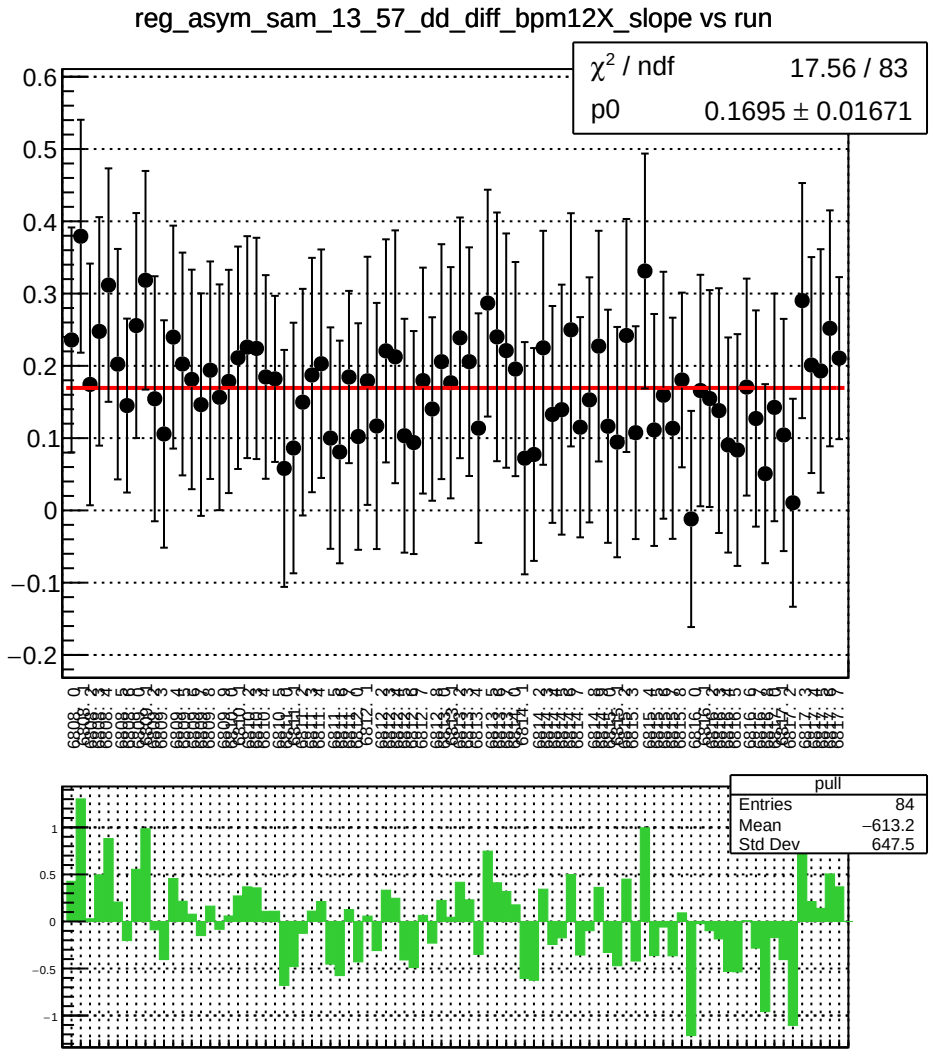

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.59 / 83
p0 −31.92 ± 0.2651
pull
Entries 84
Mean −139.1
Std Dev 181.6

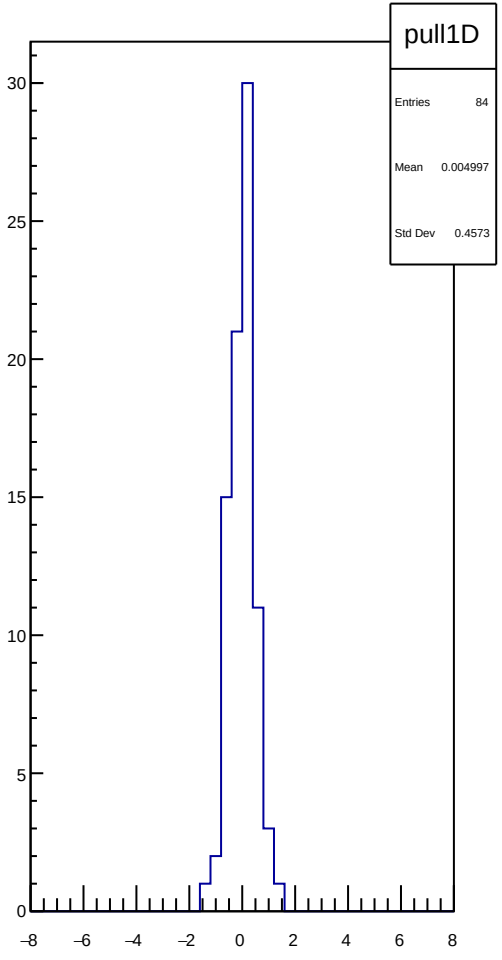

pull1D
Entries 84
Mean −0.01281
Std Dev 0.4703

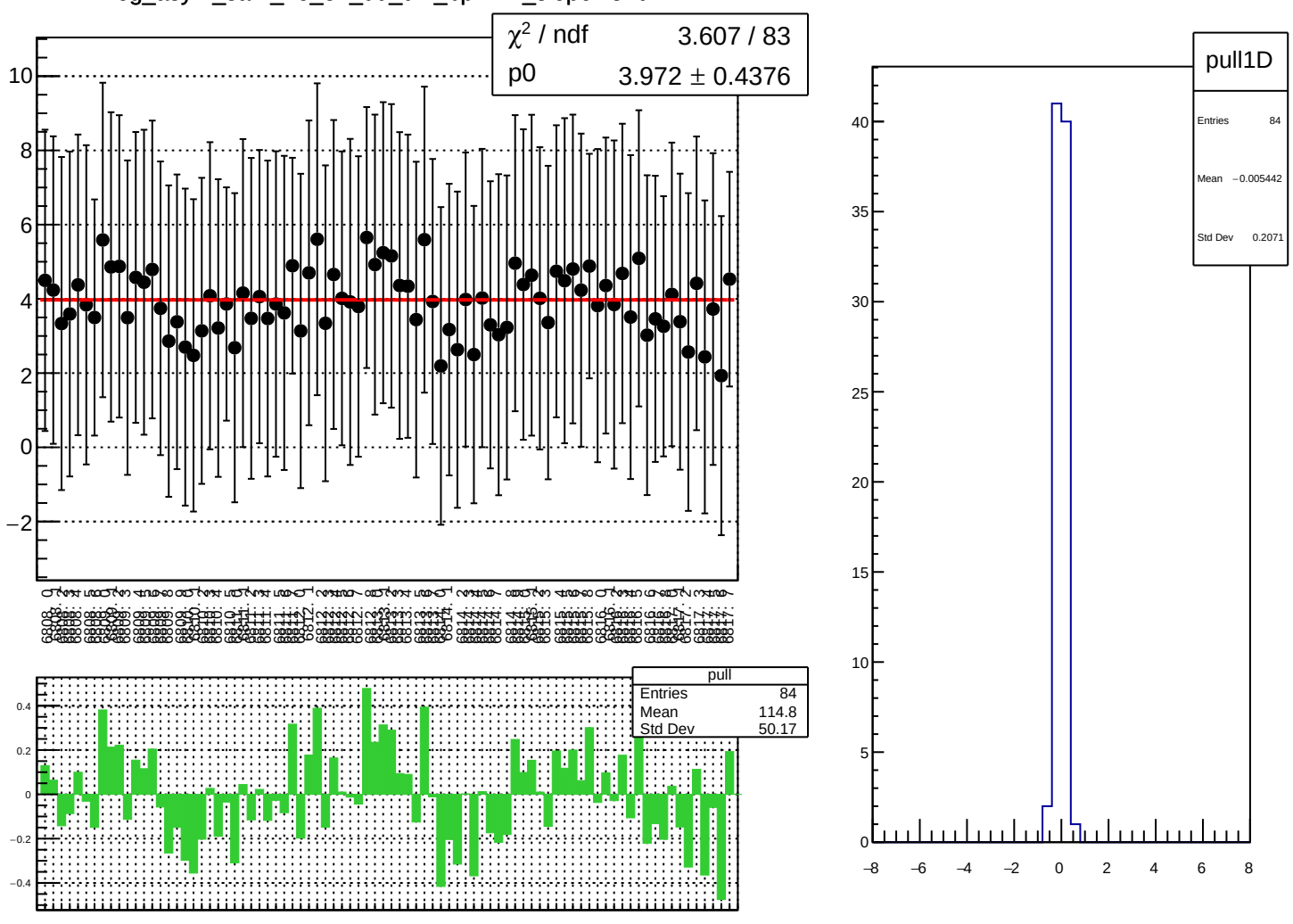

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.843 / 83
p0 −6.966 ± 0.3852
pull
Entries 84
Mean −820.3
Std Dev 830.8

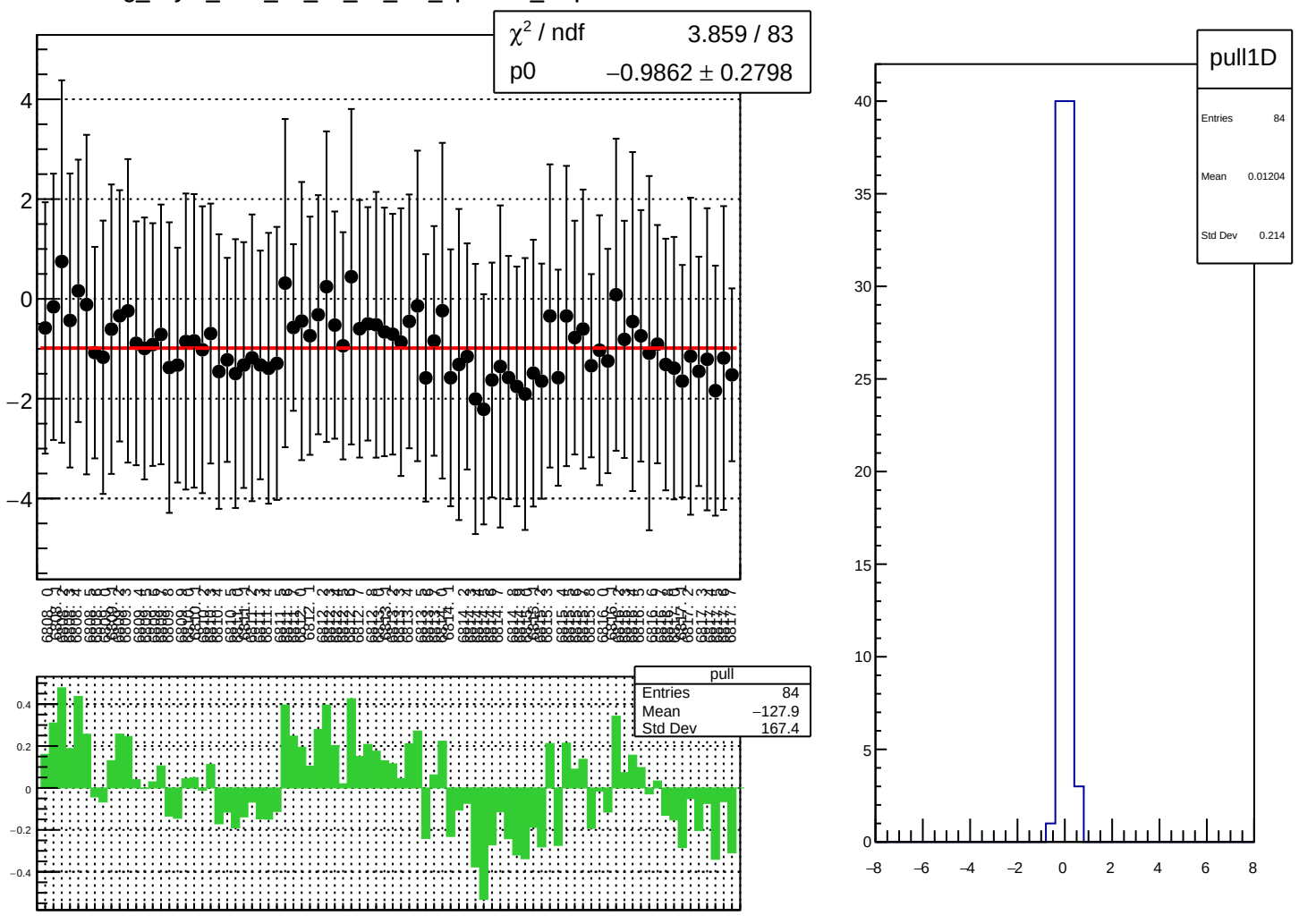

pull1D
Entries 84
Mean −0.0003906
Std Dev 0.2637

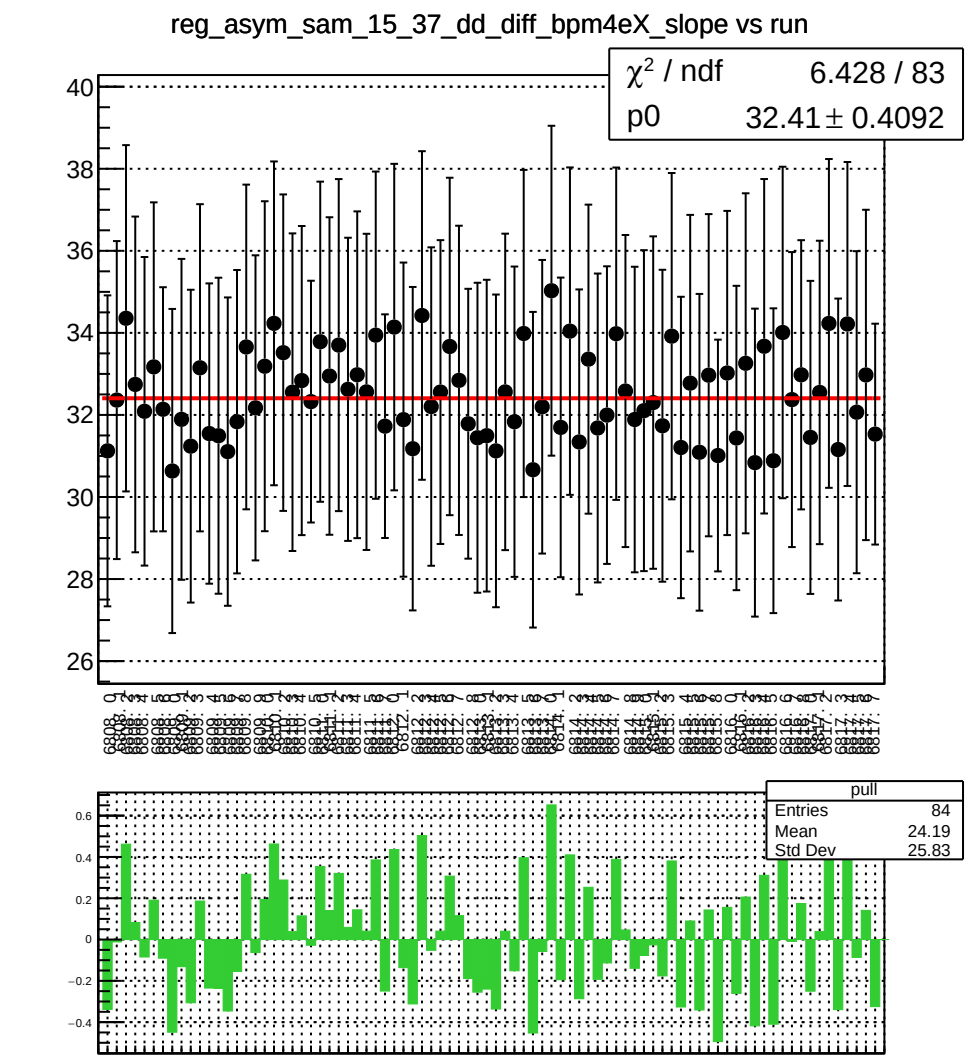

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.77 / 83
p0 −5.166 ± 0.3198
pull
Entries 84
Mean −638.3
Std Dev 683.2
pull1D
Entries 84
Mean 0.005458
Std Dev 0.4851

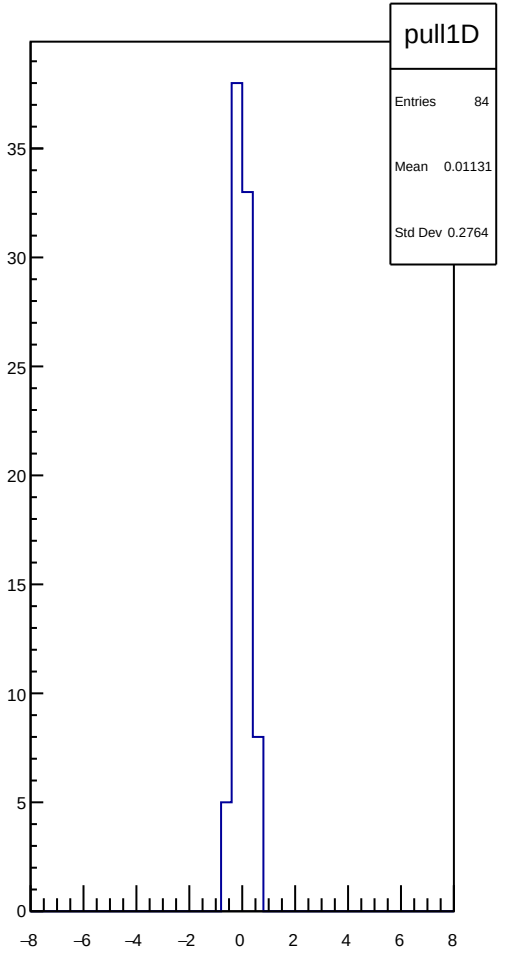

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 17.56 / 83
p0 0.1695 ± 0.01671
pull
Entries 84
Mean −613.2
Std Dev 647.5

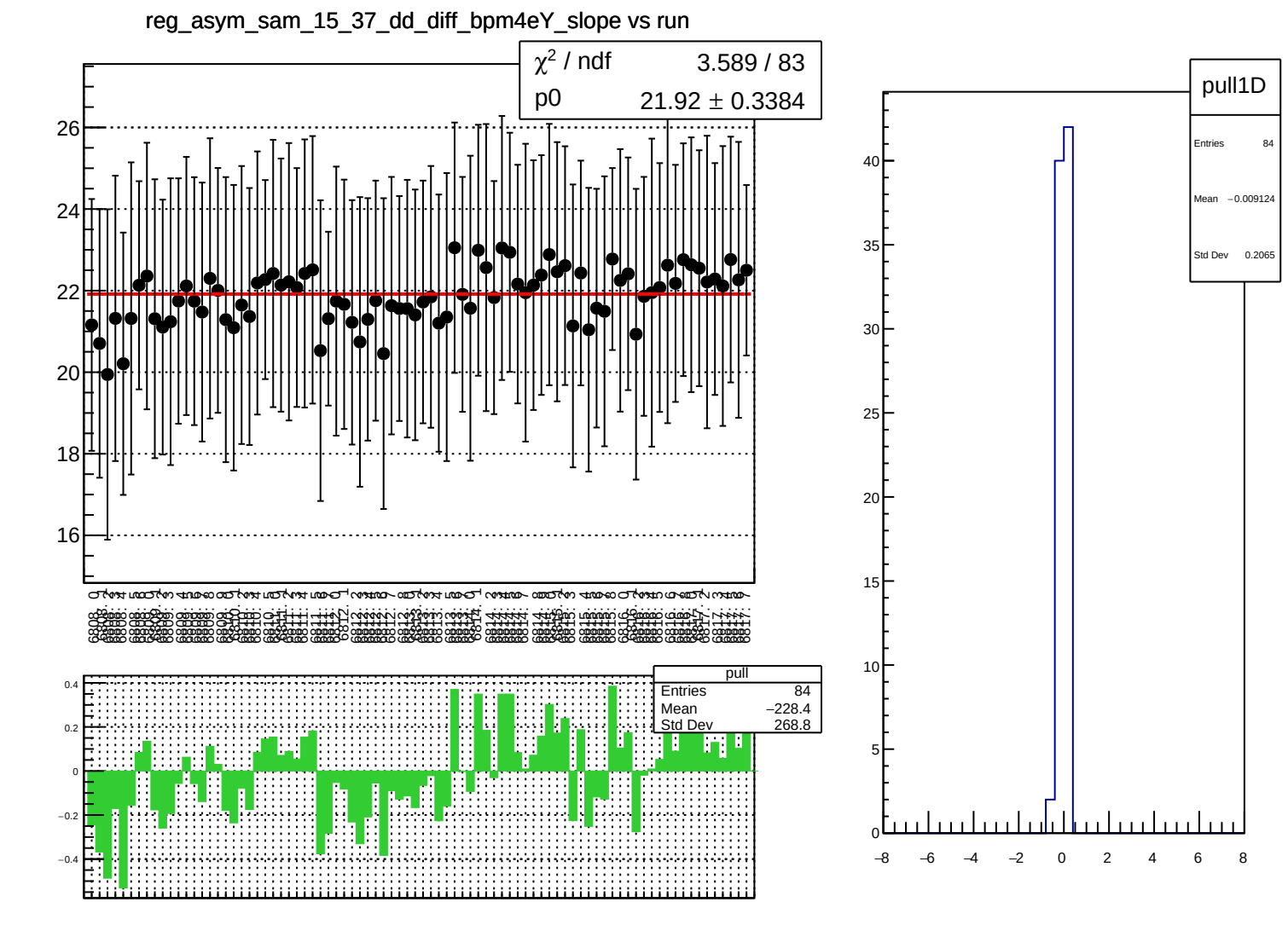

pull1D
Entries 84
Mean 0.004997
Std Dev 0.4573

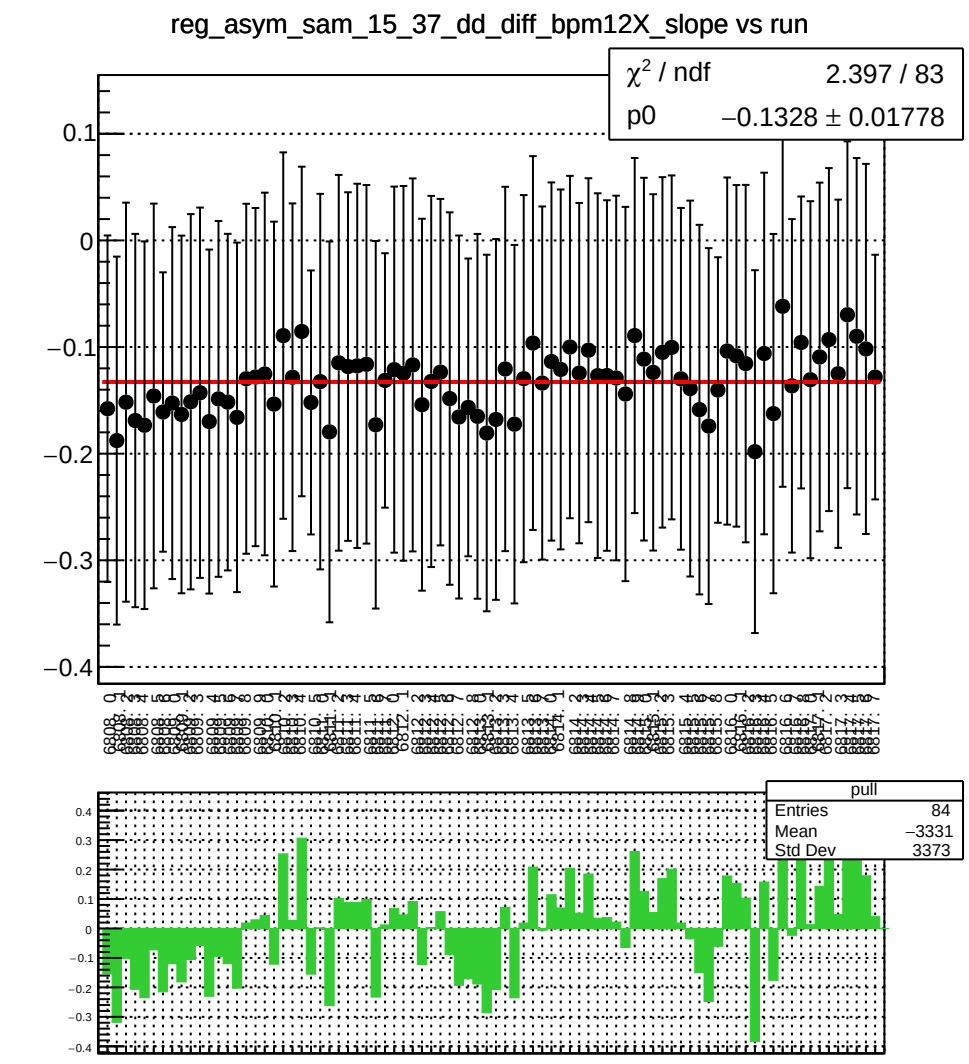

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 3.607 / 83
p0 3.972 ± 0.4376
pull
Entries 84
Mean 114.8
Std Dev 50.17
pull1D
Entries 84
Mean −0.005442
Std Dev 0.2071

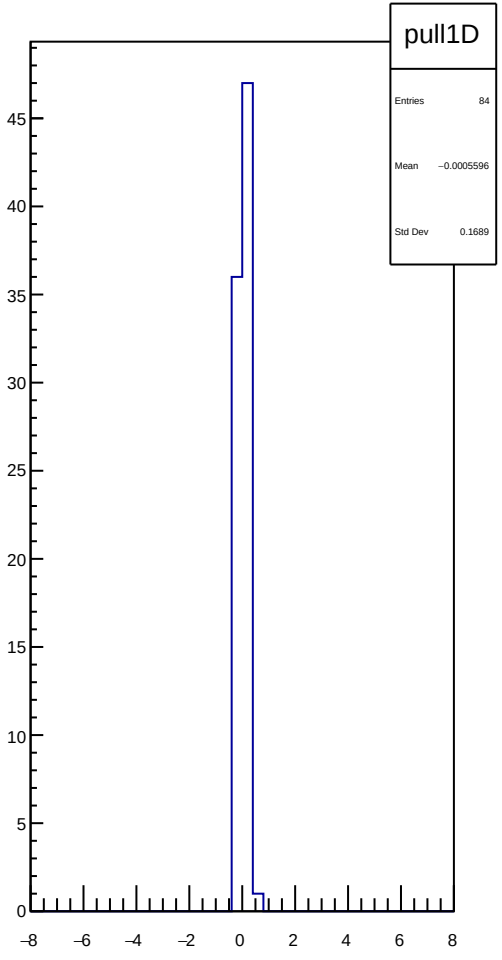

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.859 / 83
p0 −0.9862 ± 0.2798
pull
Entries 84
Mean −127.9
Std Dev 167.4
pull1D
Entries 84
Mean 0.01204
Std Dev 0.214

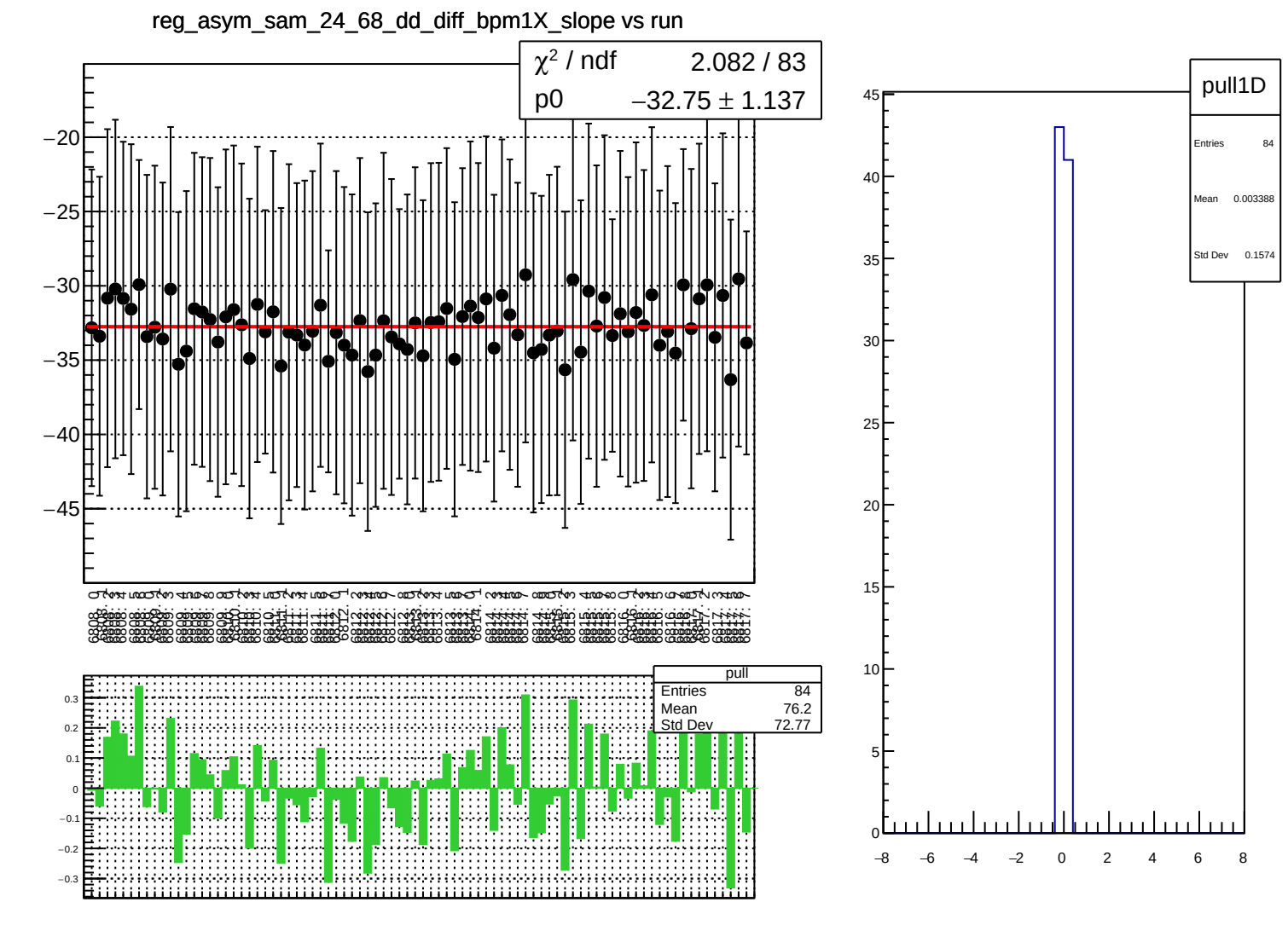

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.428 / 83
p0 32.41 ± 0.4092
pull
Entries 84
Mean 24.19
Std Dev 25.83

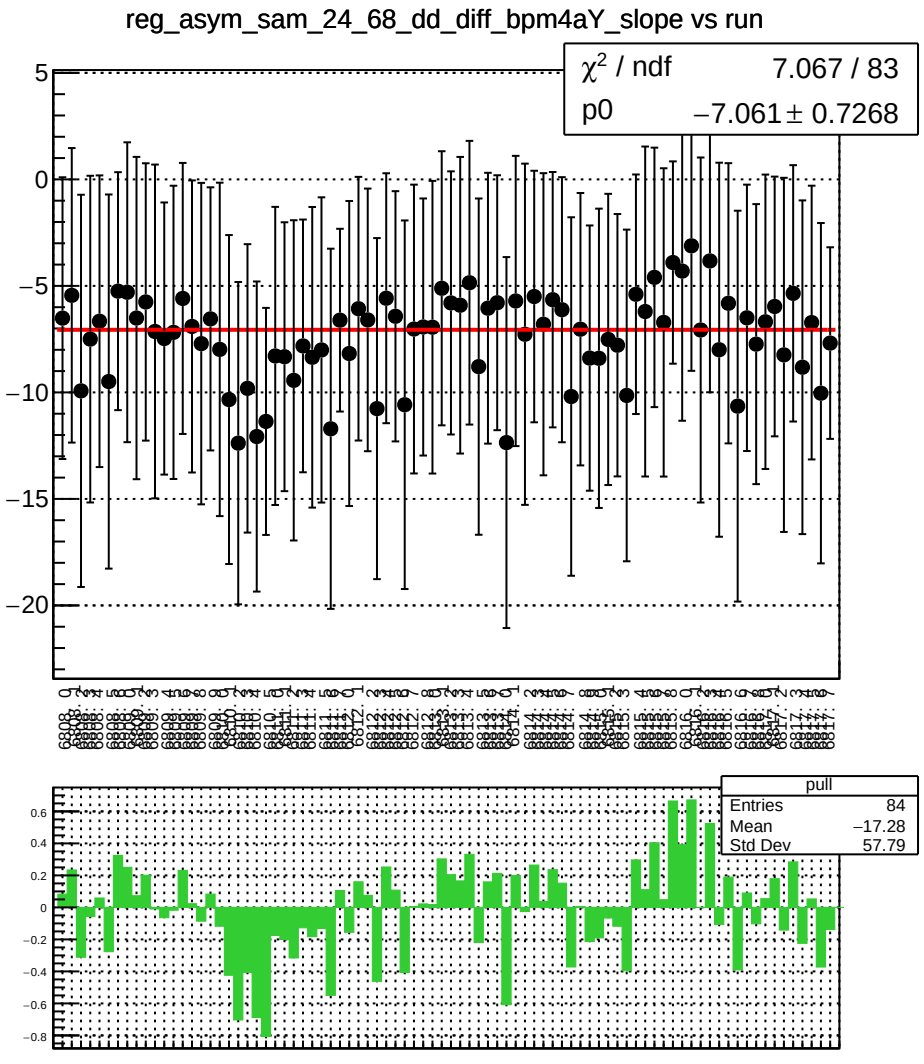

pull1D
Entries 84
Mean 0.01131
Std Dev 0.2764

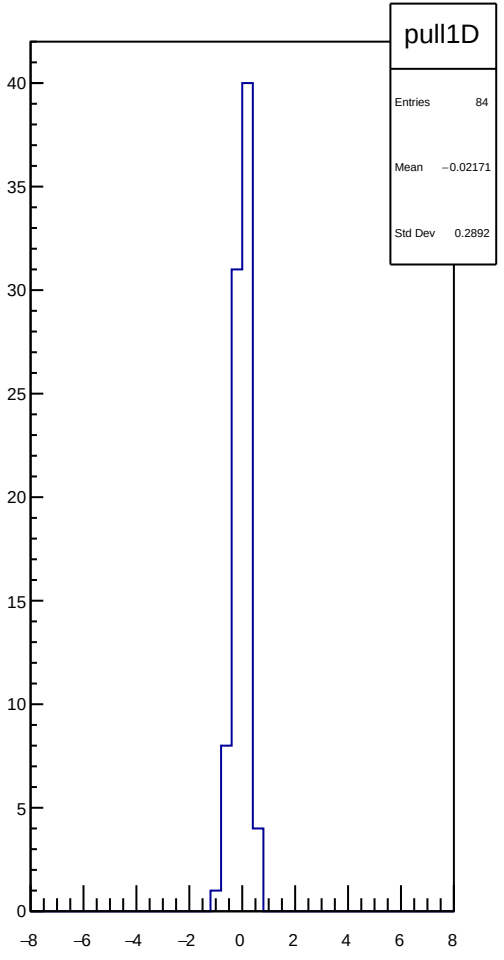

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.589 / 83
p0 21.92 ± 0.3384
pull
Entries 84
Mean −228.4
Std Dev 268.8
pull1D
Entries 84
Mean −0.009124
Std Dev 0.2065

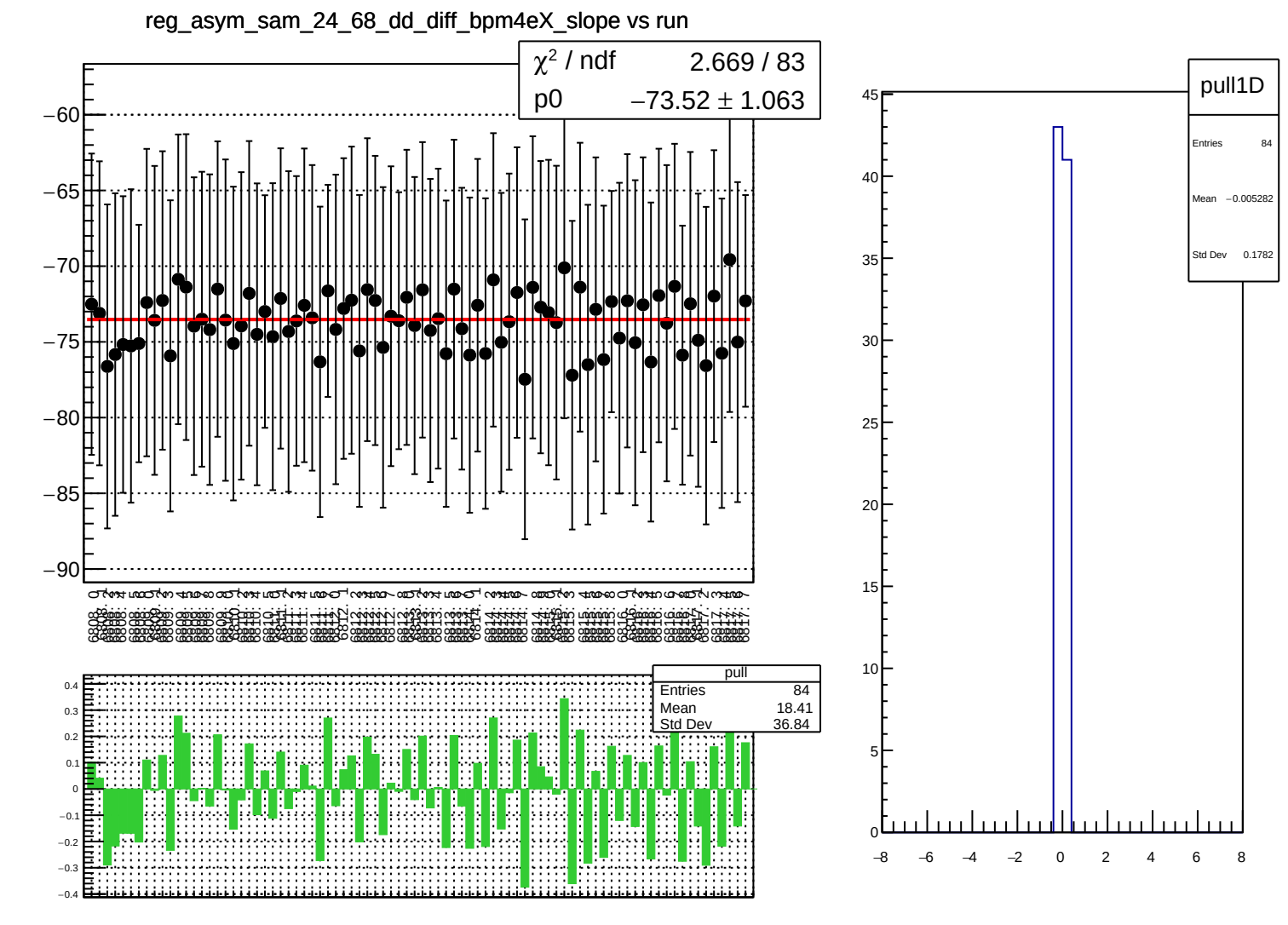

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.397 / 83
p0 −0.1328 ± 0.01778
pull
Entries 84
Mean −3331
Std Dev 3373

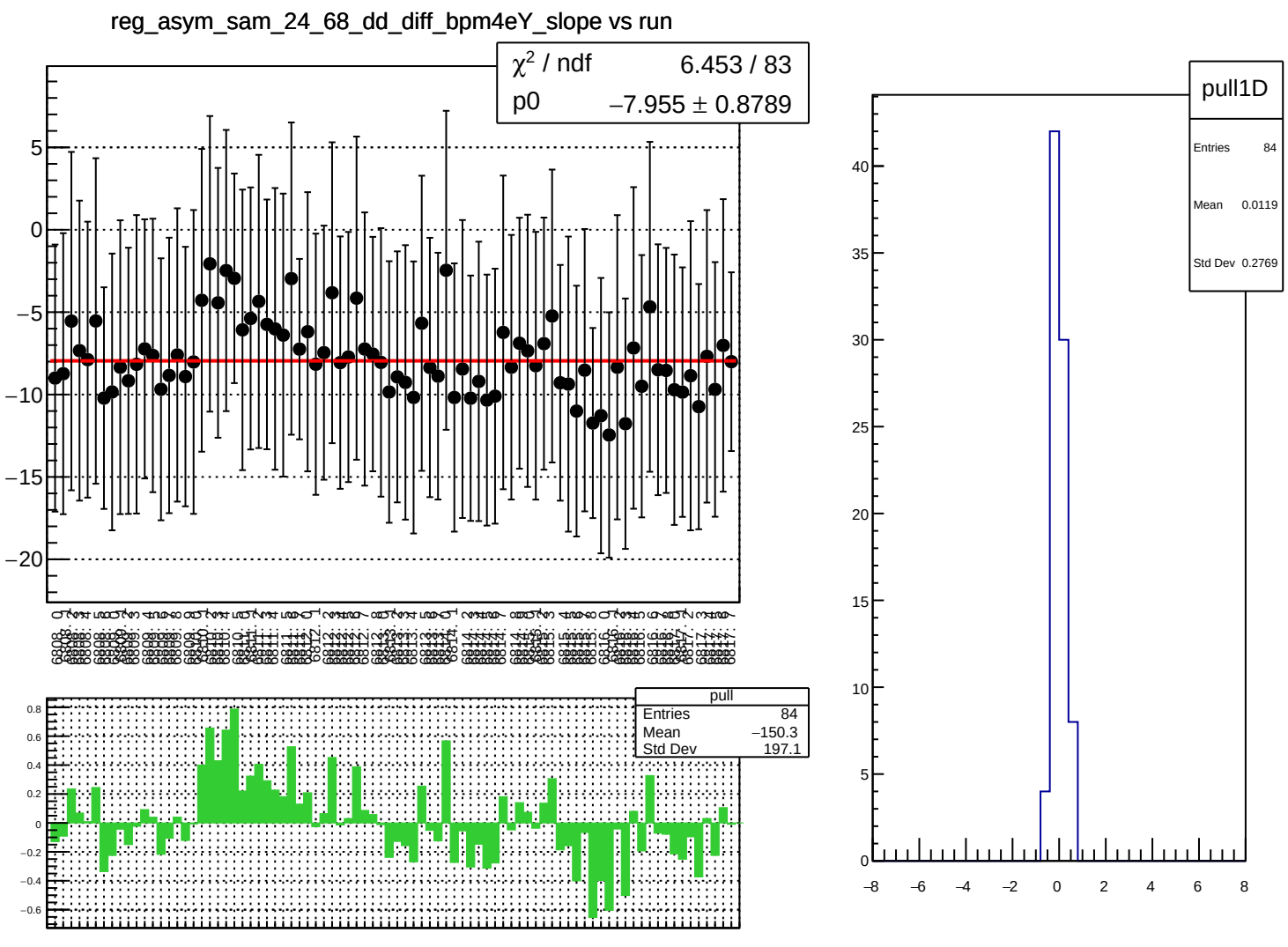

pull1D
Entries 84
Mean −0.0005596
Std Dev 0.1689

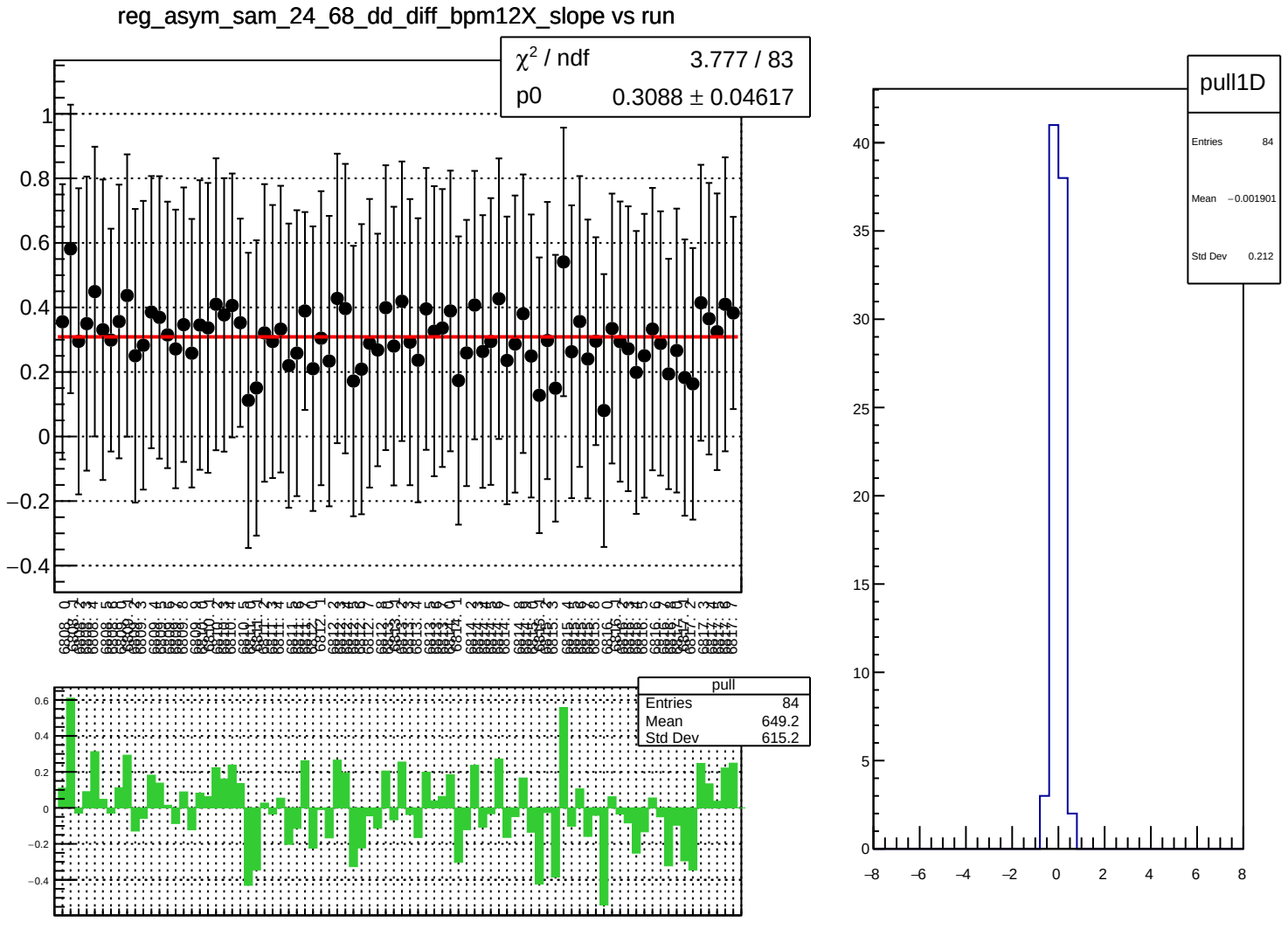

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 2.082 / 83
p0 −32.75 ± 1.137
pull
Entries 84
Mean 76.2
Std Dev 72.77
pull1D
Entries 84
Mean 0.003388
Std Dev 0.1574

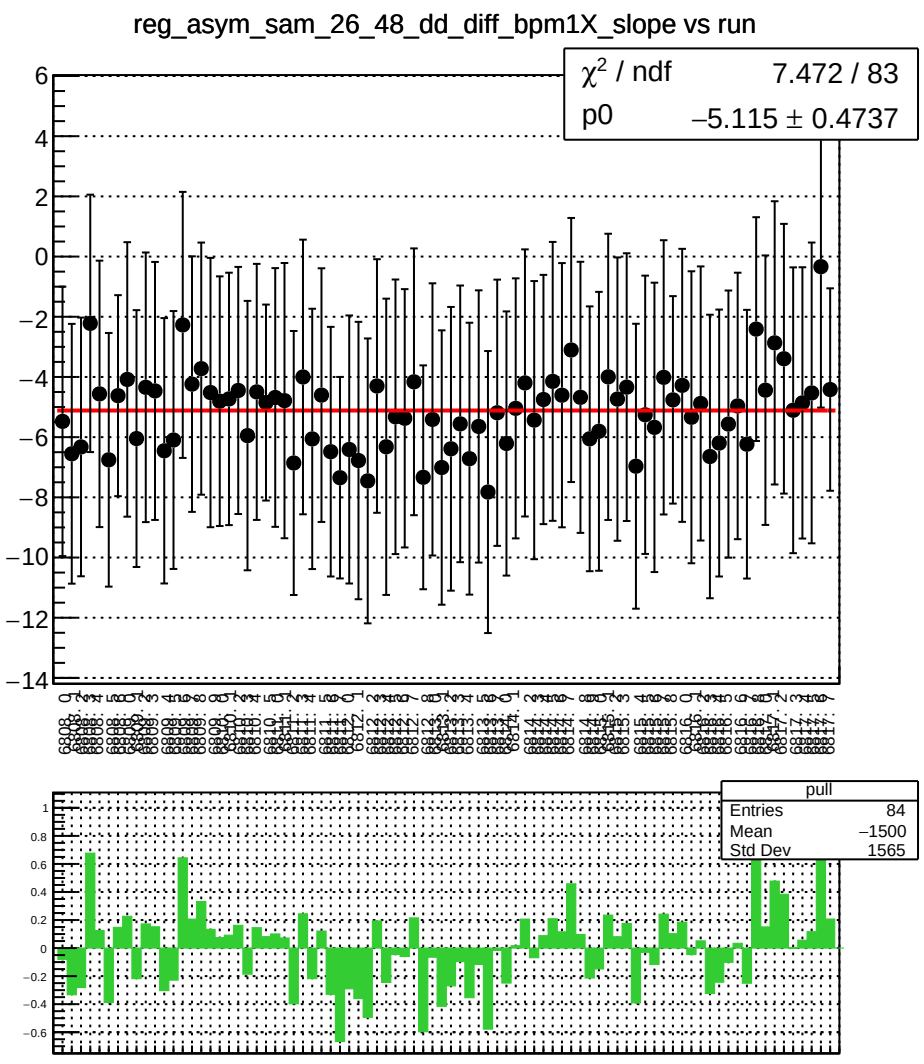

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.067 / 83
p0 −7.061 ± 0.7268
pull
Entries 84
Mean −17.28
Std Dev 57.79

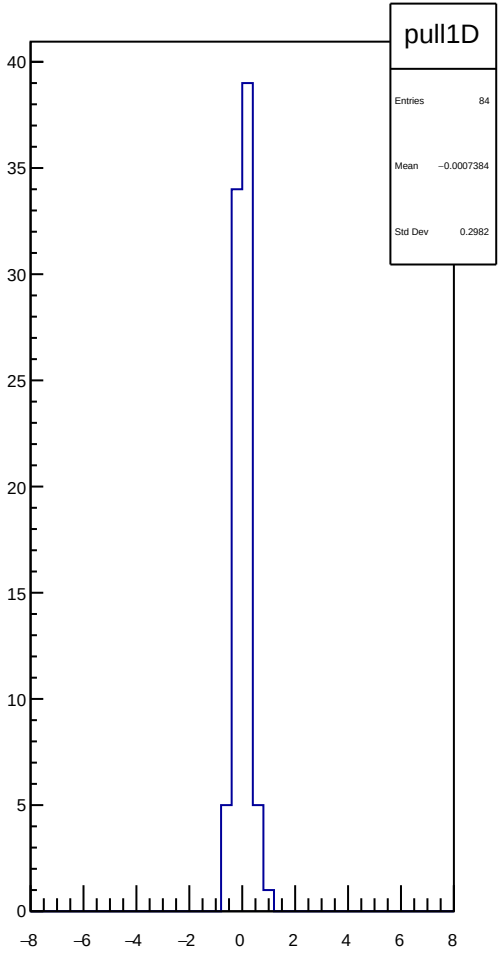

pull1D
Entries 84
Mean −0.02171
Std Dev 0.2892

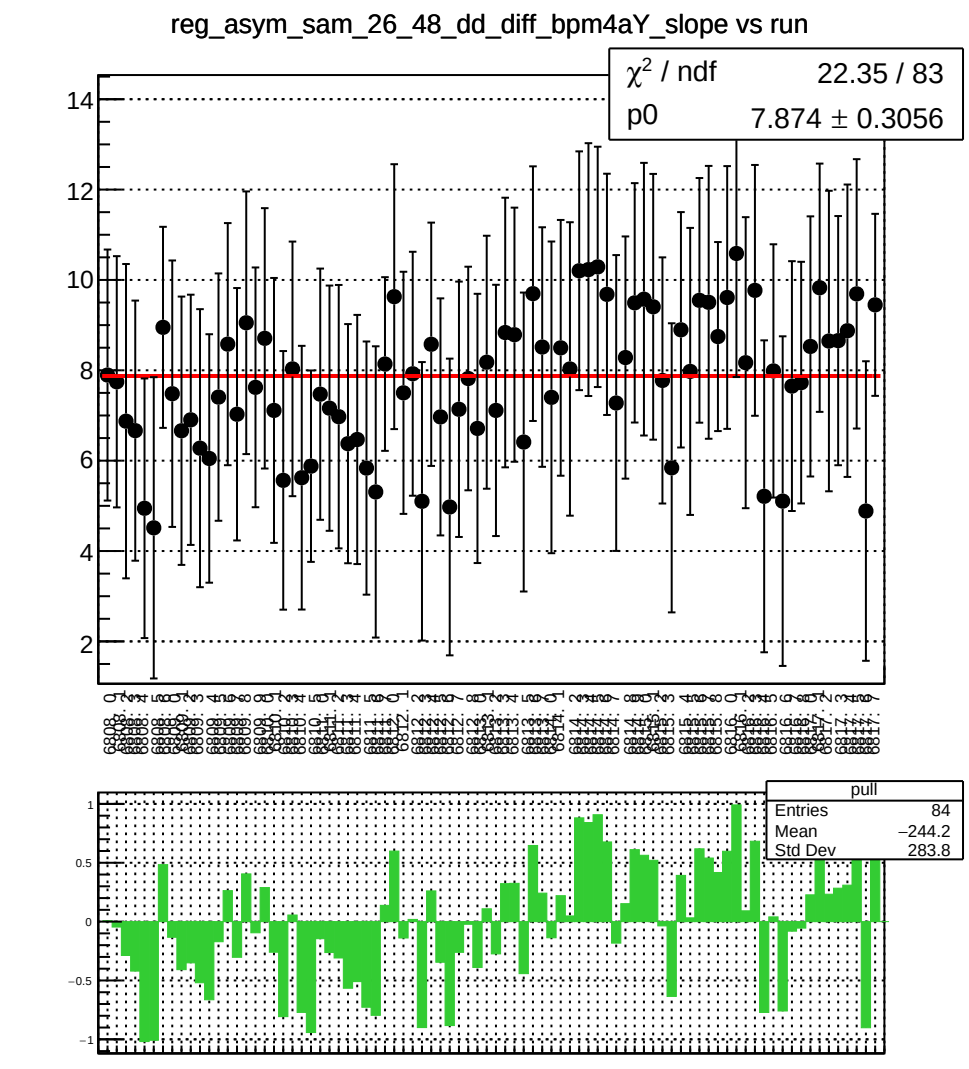

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.669 / 83
p0 −73.52 ± 1.063
pull
Entries 84
Mean 18.41
Std Dev 36.84
pull1D
Entries 84
Mean −0.005282
Std Dev 0.1782

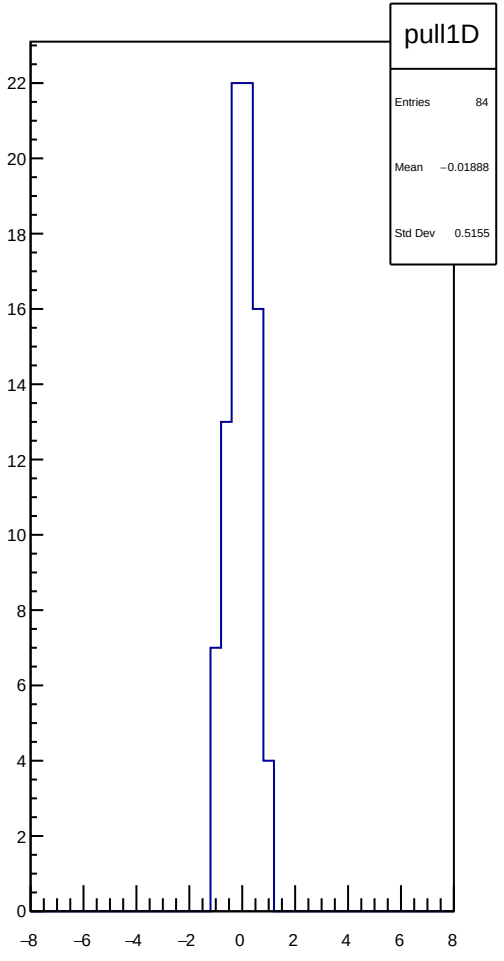

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.453 / 83
p0 −7.955 ± 0.8789
pull
Entries 84
Mean −150.3
Std Dev 197.1
pull1D
Entries 84
Mean 0.0119
Std Dev 0.2769

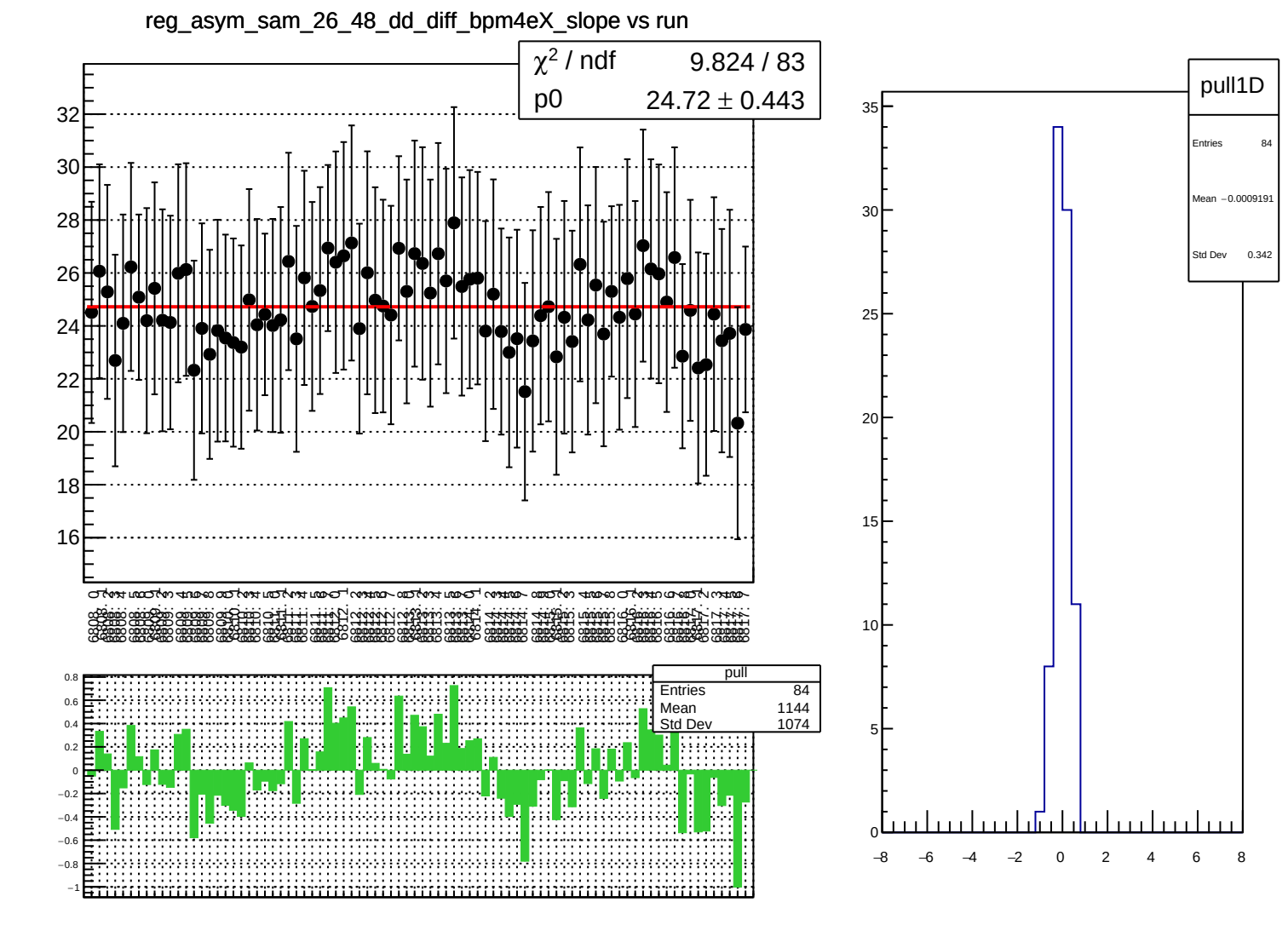

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 3.777 / 83
p0 0.3088 ± 0.04617
pull
Entries 84
Mean 649.2
Std Dev 615.2
pull1D
Entries 84
Mean −0.001901
Std Dev 0.212

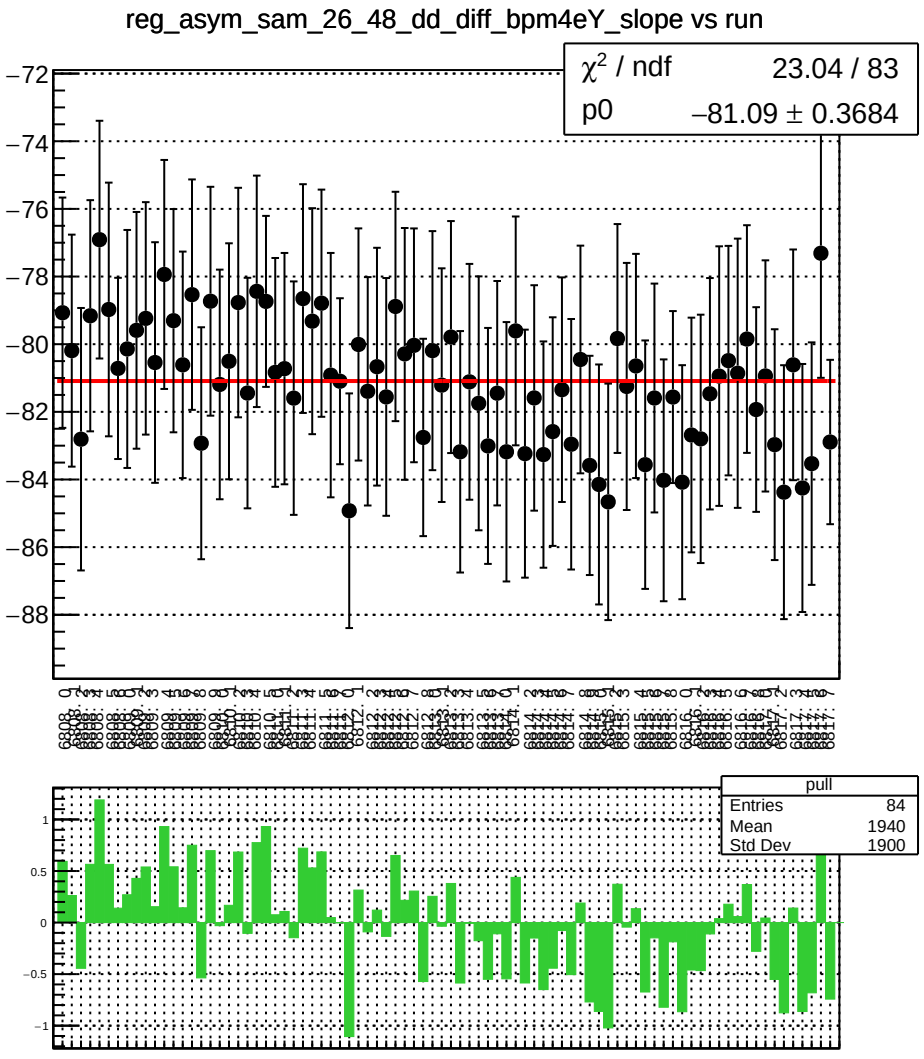

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 7.472 / 83
p0 −5.115 ± 0.4737
pull
Entries 84
Mean −1500
Std Dev 1565

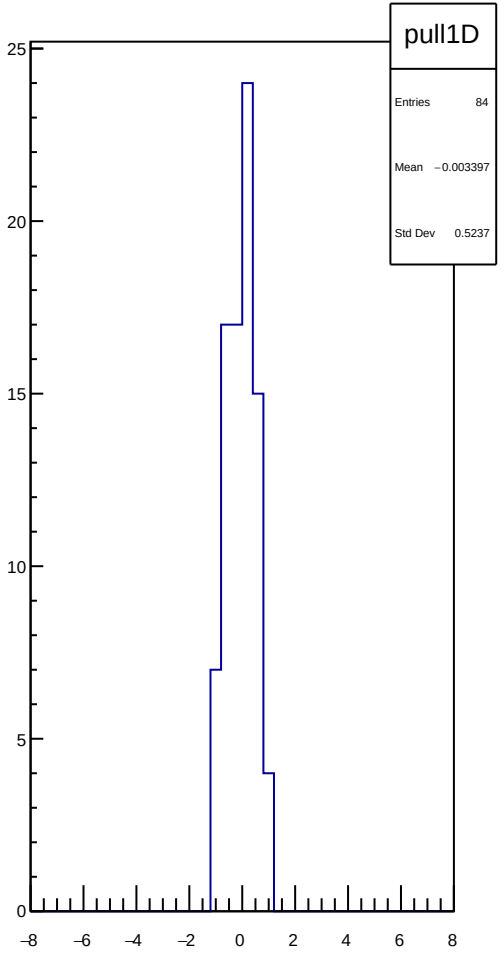

pull1D
Entries 84
Mean −0.0007384
Std Dev 0.2982

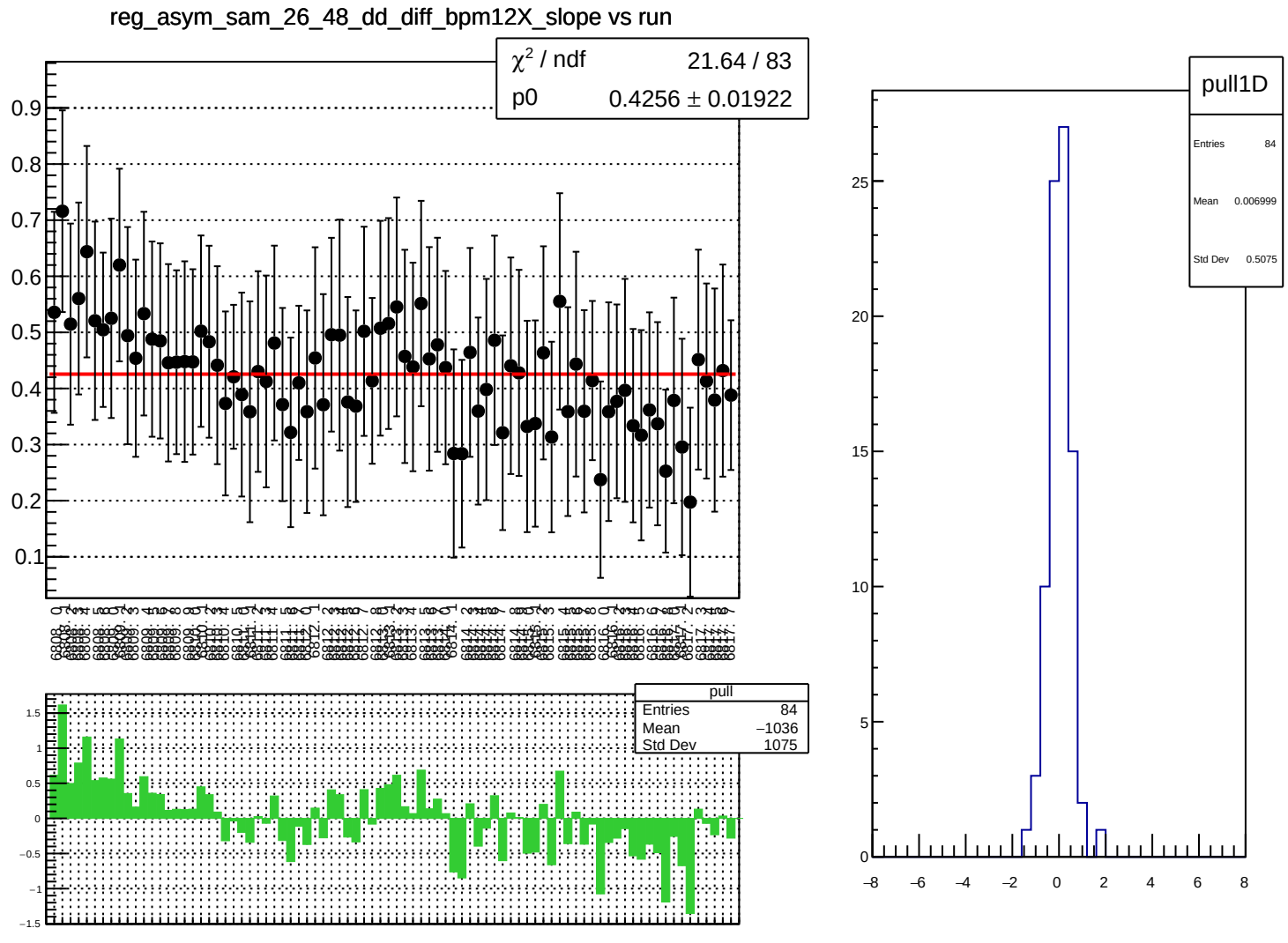

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.35 / 83
p0 7.874 ± 0.3056
pull
Entries 84
Mean −244.2
Std Dev 283.8

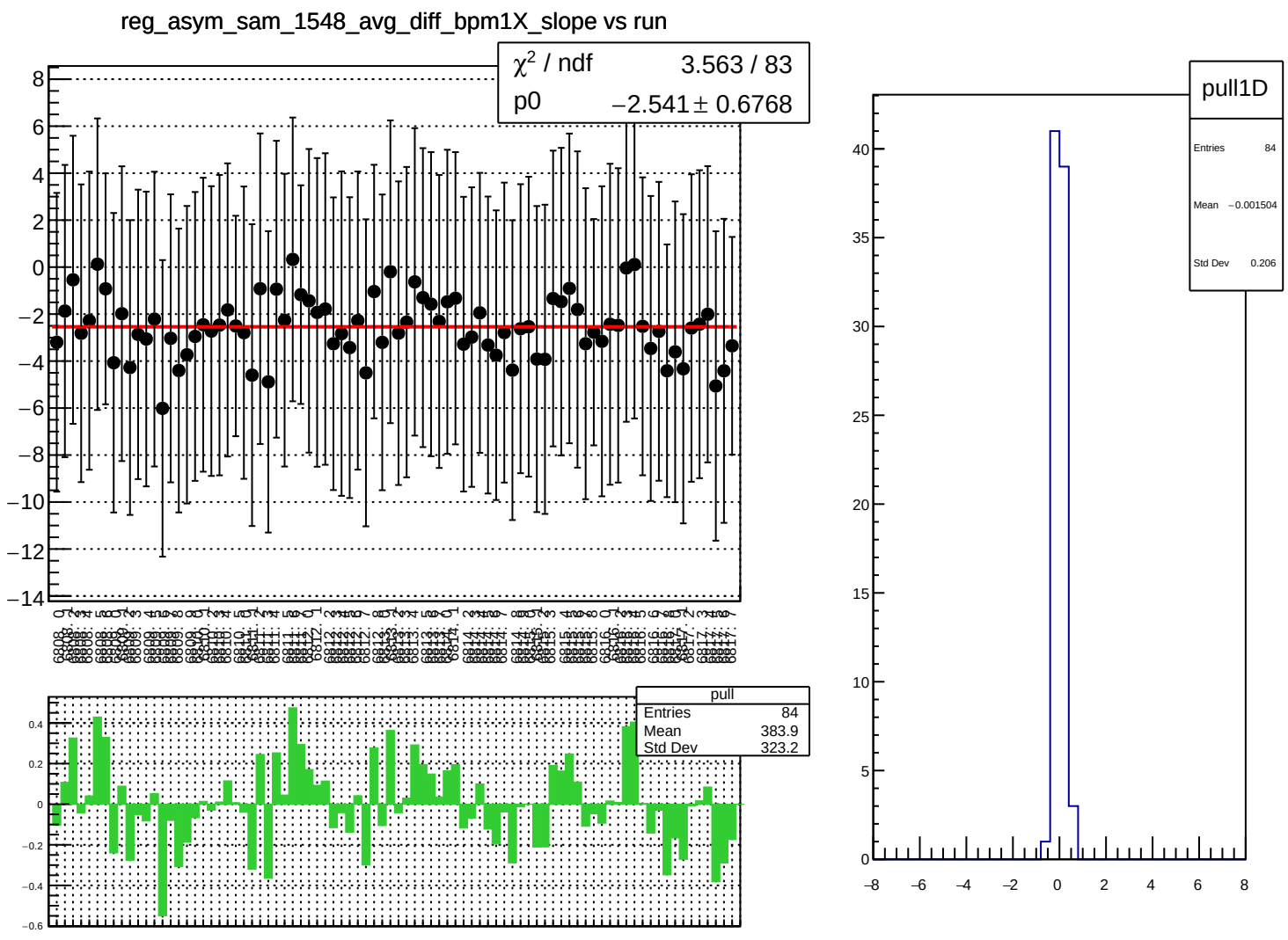

pull1D
Entries 84
Mean −0.01888
Std Dev 0.5155

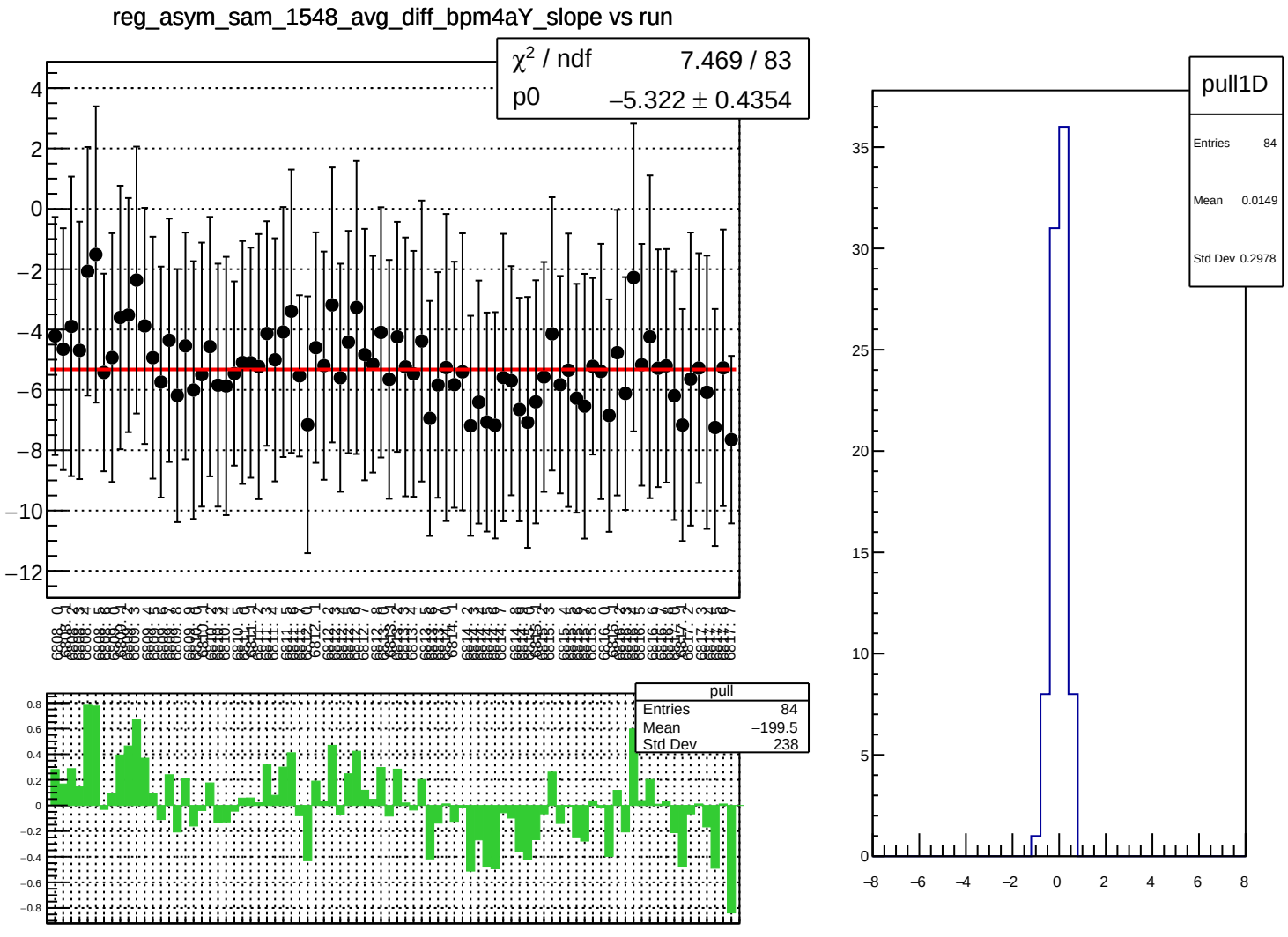

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.824 / 83
p0 24.72 ± 0.443
pull
Entries 84
Mean 1144
Std Dev 1074
pull1D
Entries 84
Mean −0.0009191
Std Dev 0.342

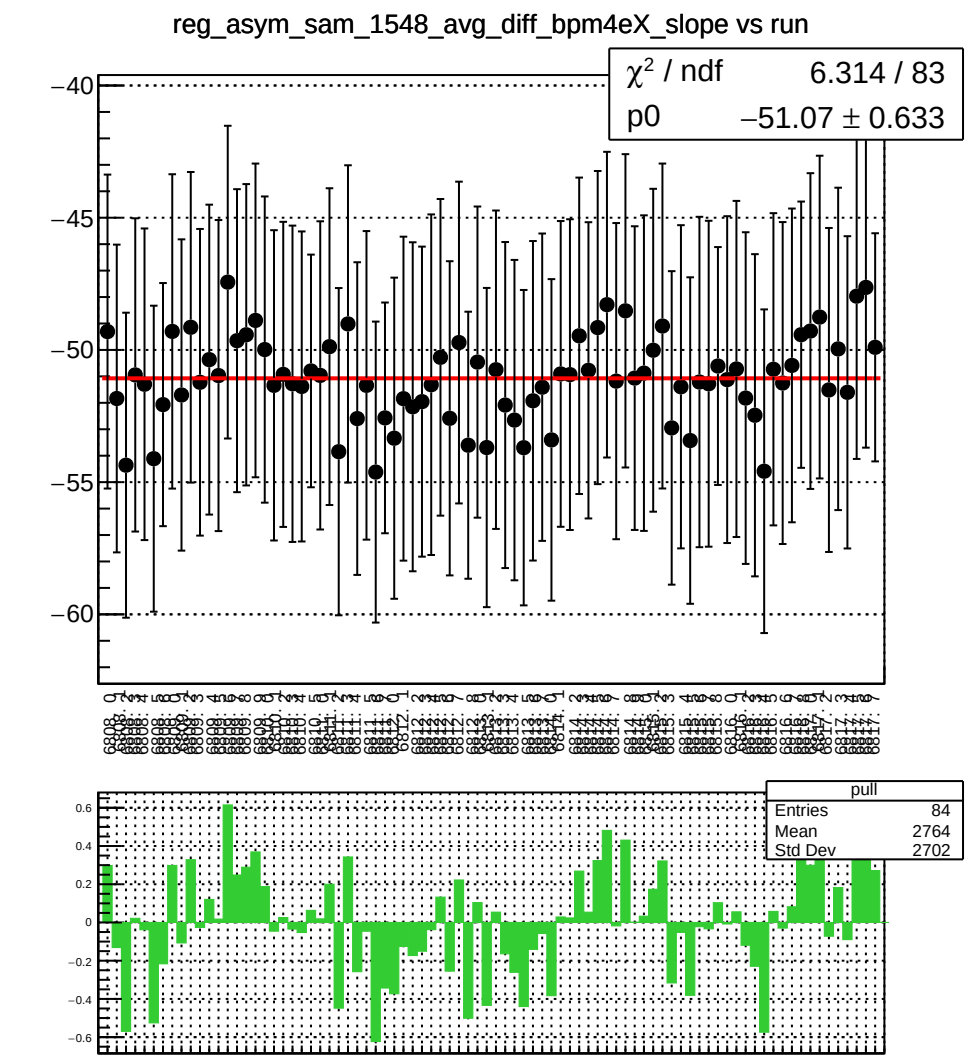

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.04 / 83
p0 −81.09 ± 0.3684
pull
Entries 84
Mean 1940
Std Dev 1900

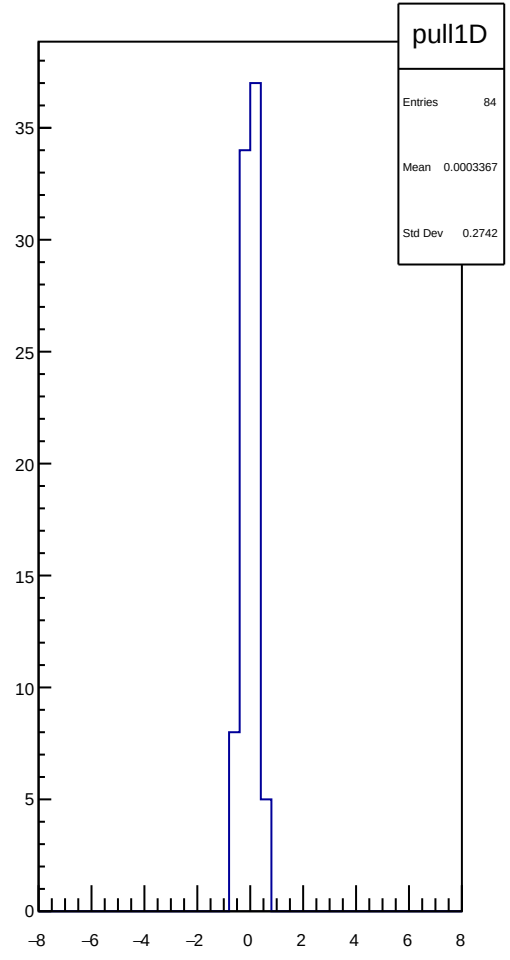

pull1D
Entries 84
Mean −0.003397
Std Dev 0.5237

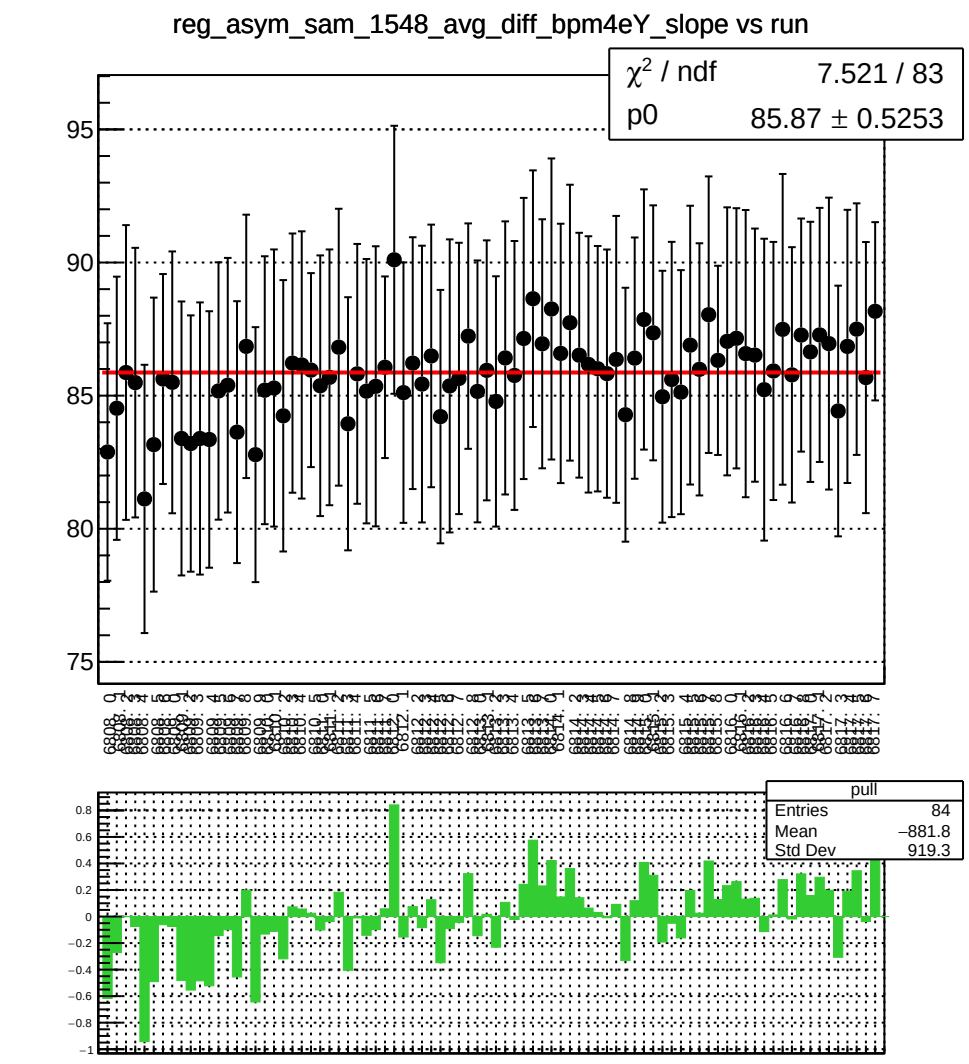

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 21.64 / 83
p0 0.4256 ± 0.01922
pull
Entries 84
Mean −1036
Std Dev 1075
pull1D
Entries 84
Mean 0.006999
Std Dev 0.5075

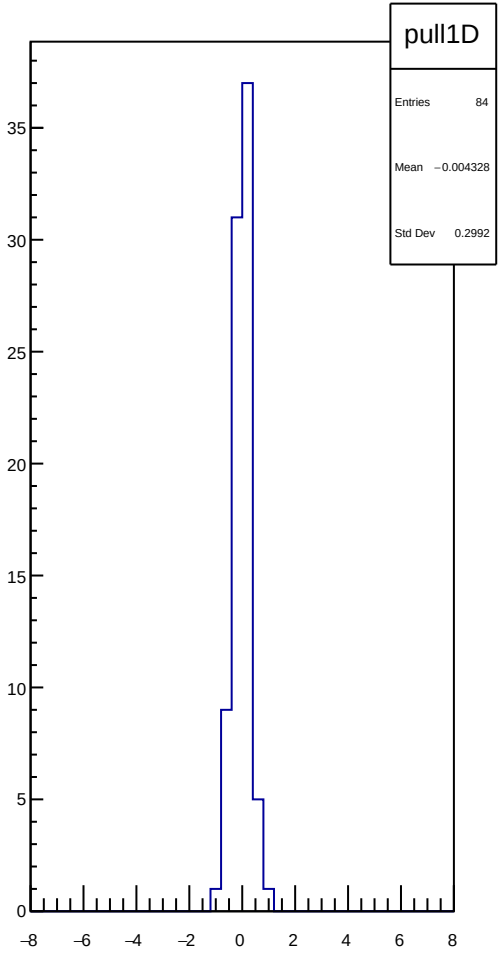

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 3.563 / 83
p0 −2.541 ± 0.6768
pull
Entries 84
Mean 383.9
Std Dev 323.2
pull1D
Entries 84
Mean −0.001504
Std Dev 0.206

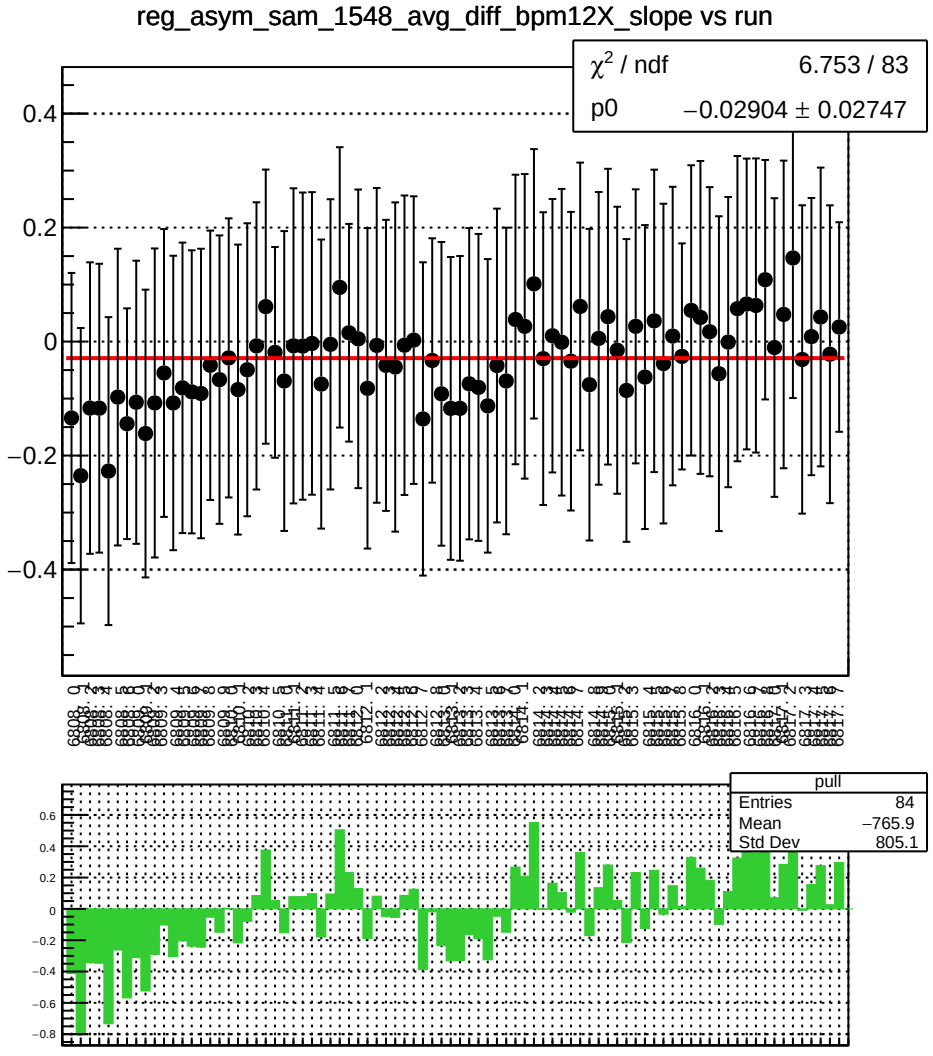

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.469 / 83
p0 −5.322 ± 0.4354
pull
Entries 84
Mean −199.5
Std Dev 238
pull1D
Entries 84
Mean 0.0149
Std Dev 0.2978

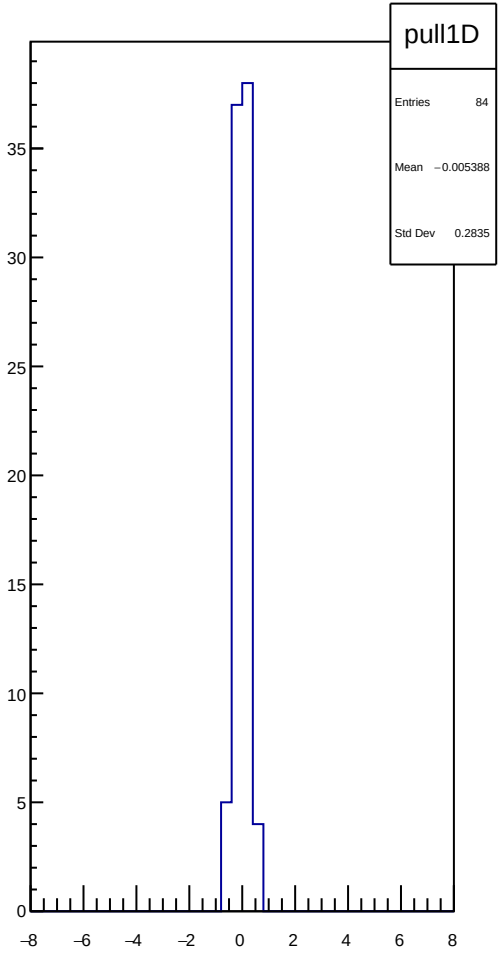

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.314 / 83
p0 −51.07 ± 0.633
−40
−45
−50
−55
−60
pull
Entries 84
Mean 2764
Std Dev 2702
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

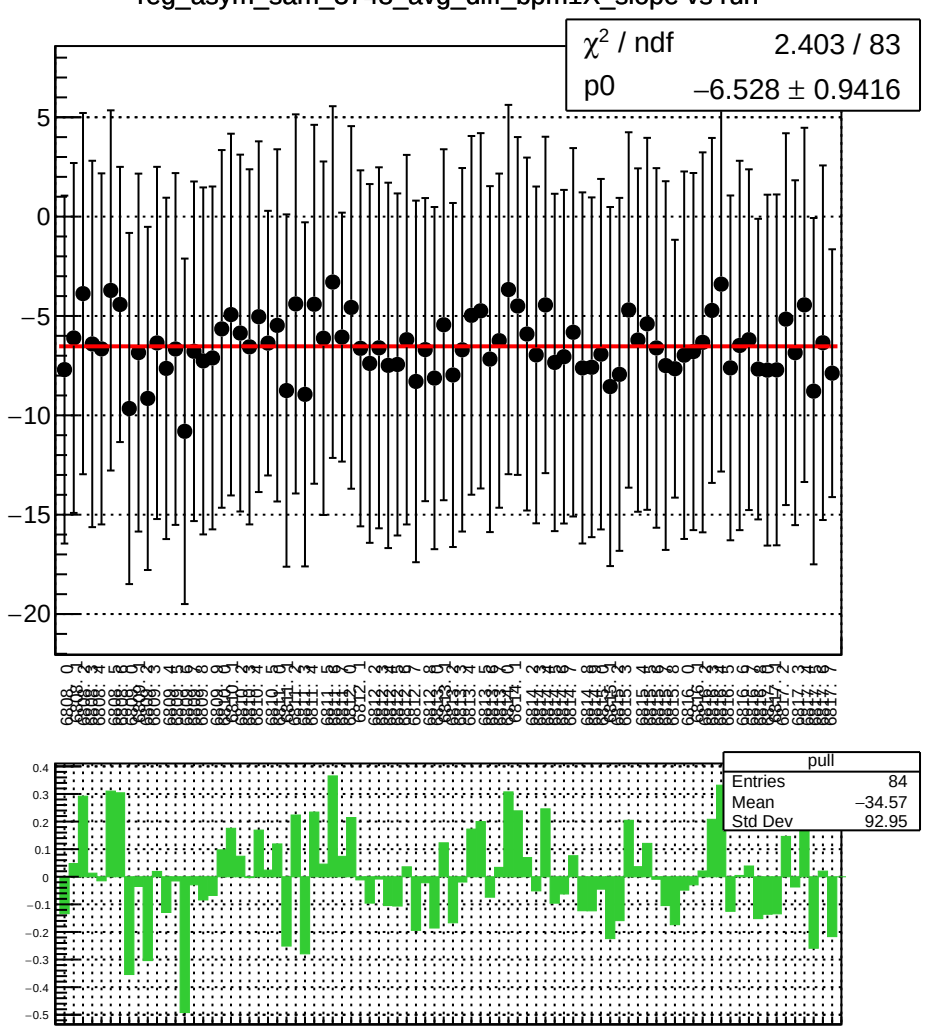

pull1D
Entries 84
Mean 0.0003367
Std Dev 0.2742
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

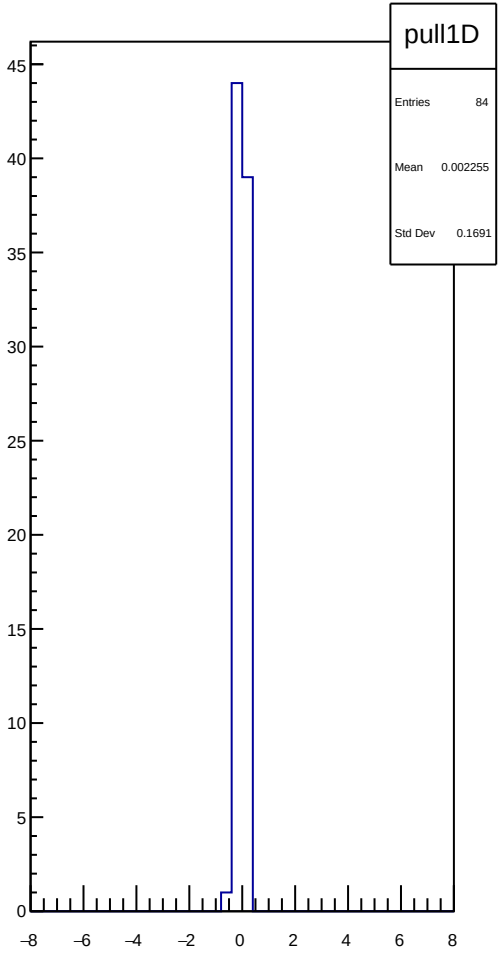

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.521 / 83
p0 85.87 ± 0.5253
95
90
85
80
75
pull
Entries 84
Mean −881.8
Std Dev 919.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

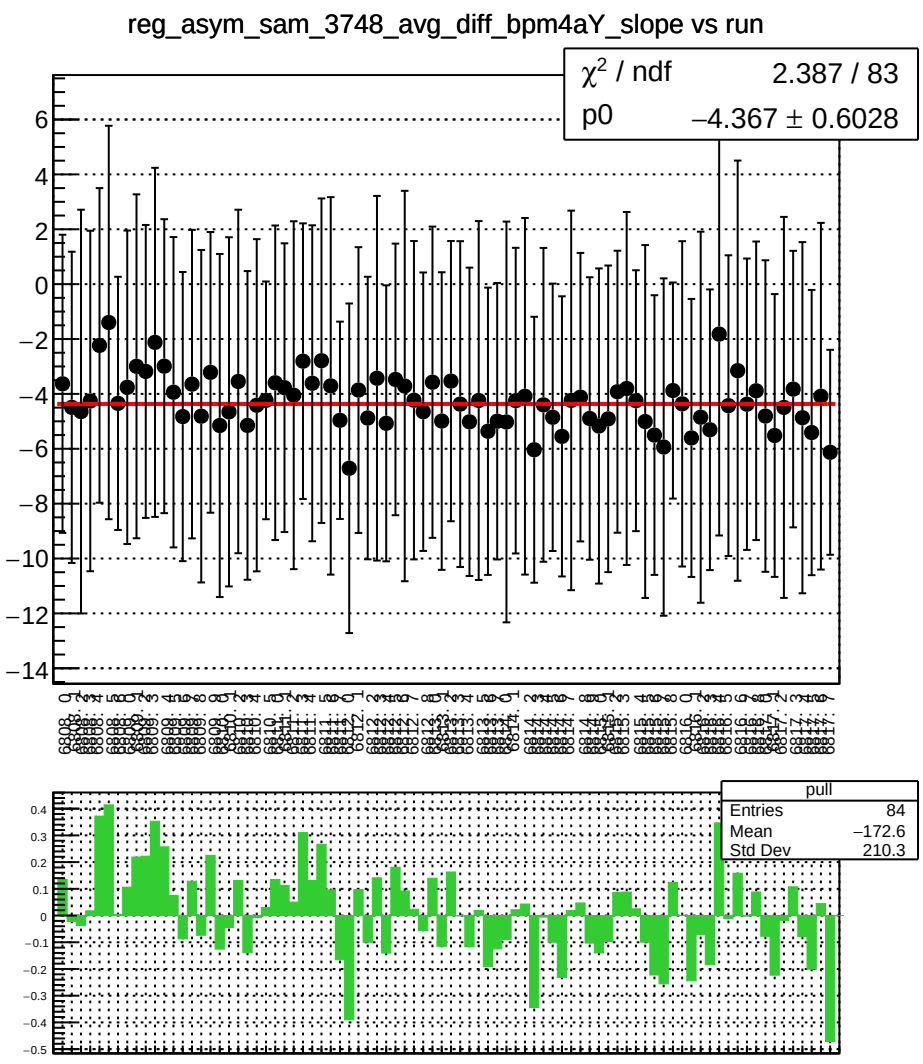

pull1D
Entries 84
Mean −0.004328
Std Dev 0.2992
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

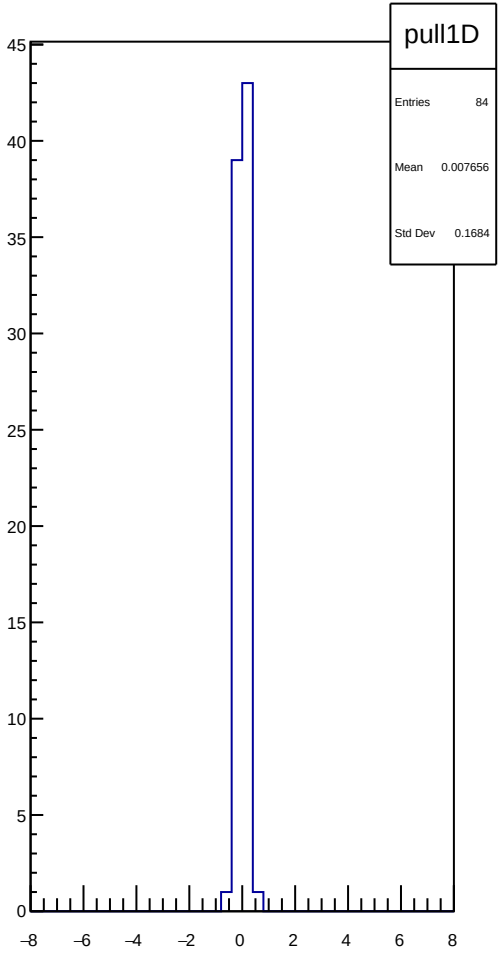

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 6.753 / 83
p0 −0.02904 ± 0.02747
pull
Entries 84
Mean −765.9
Std Dev 805.1

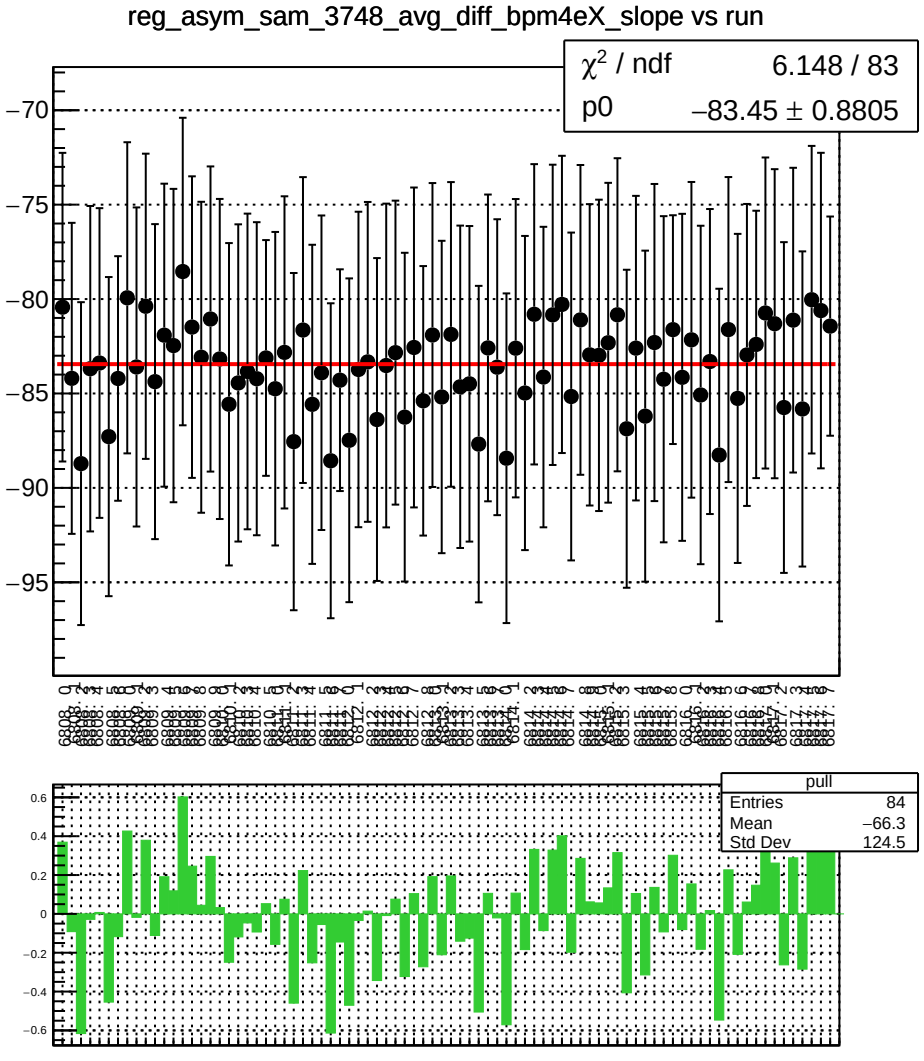

pull1D
Entries 84
Mean −0.005388
Std Dev 0.2835

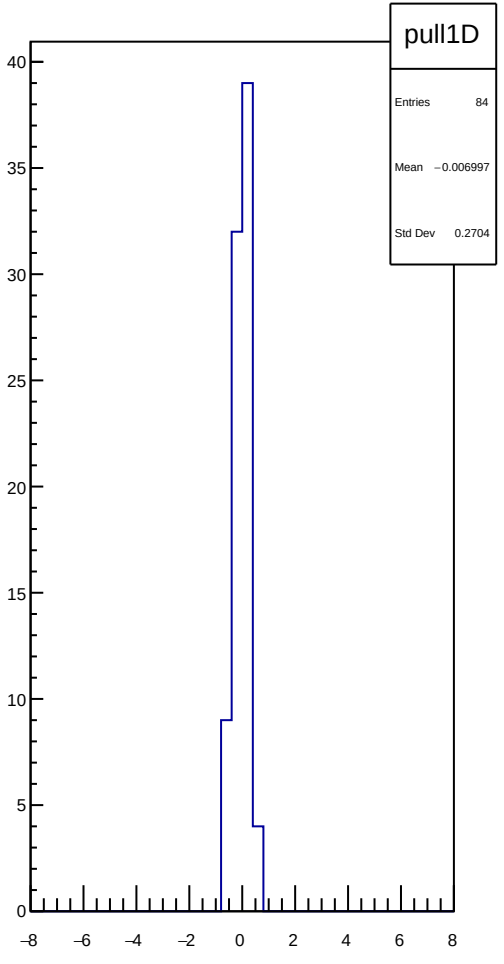

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 2.403 / 83
p0 −6.528 ± 0.9416
pull
Entries 84
Mean −34.57
Std Dev 92.95

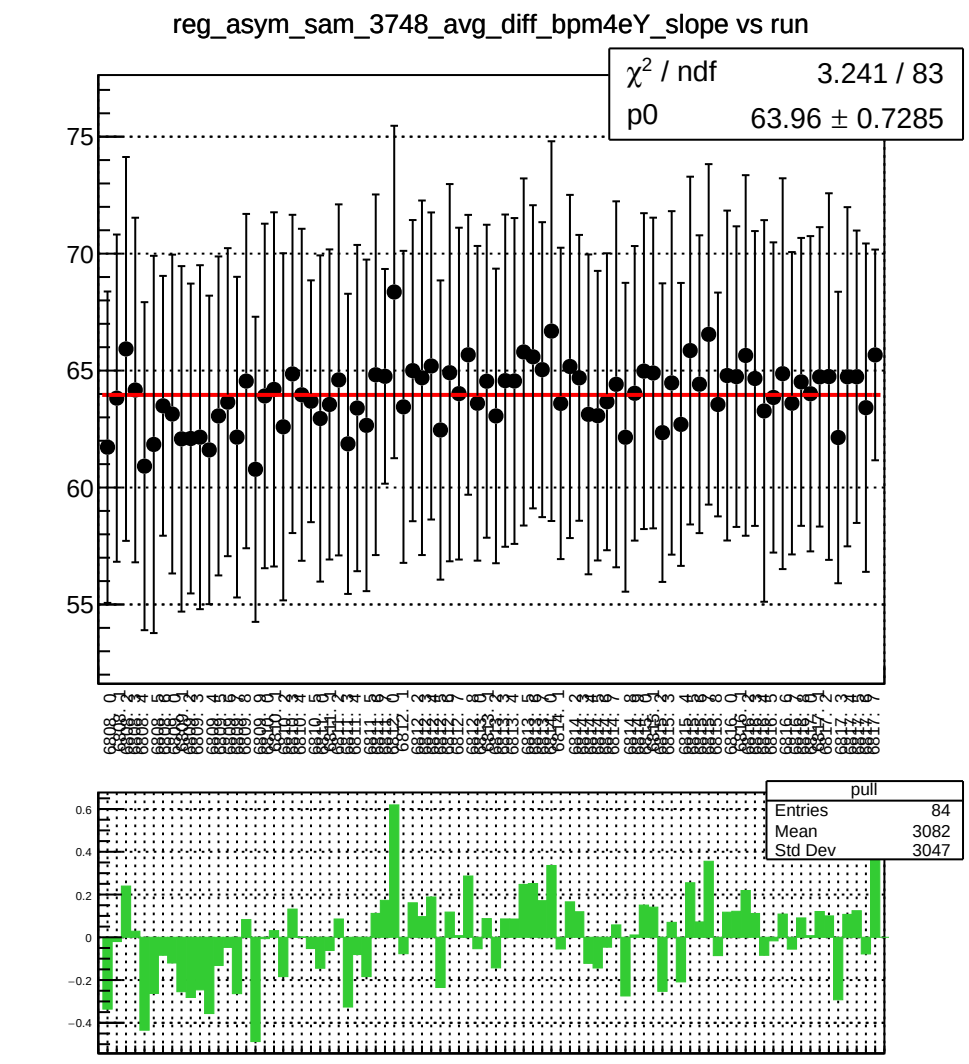

pull1D
Entries 84
Mean 0.002255
Std Dev 0.1691

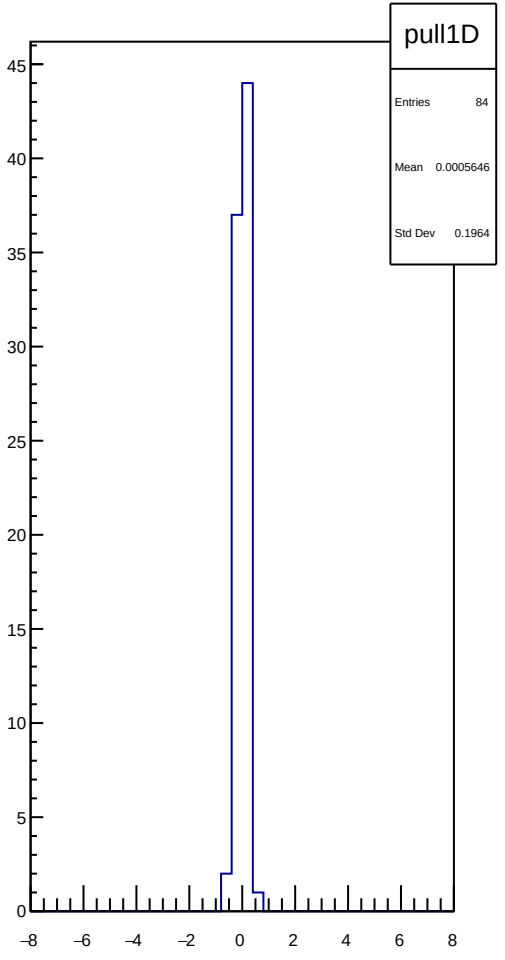

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.387 / 83
p0 −4.367 ± 0.6028
pull
Entries 84
Mean −172.6
Std Dev 210.3

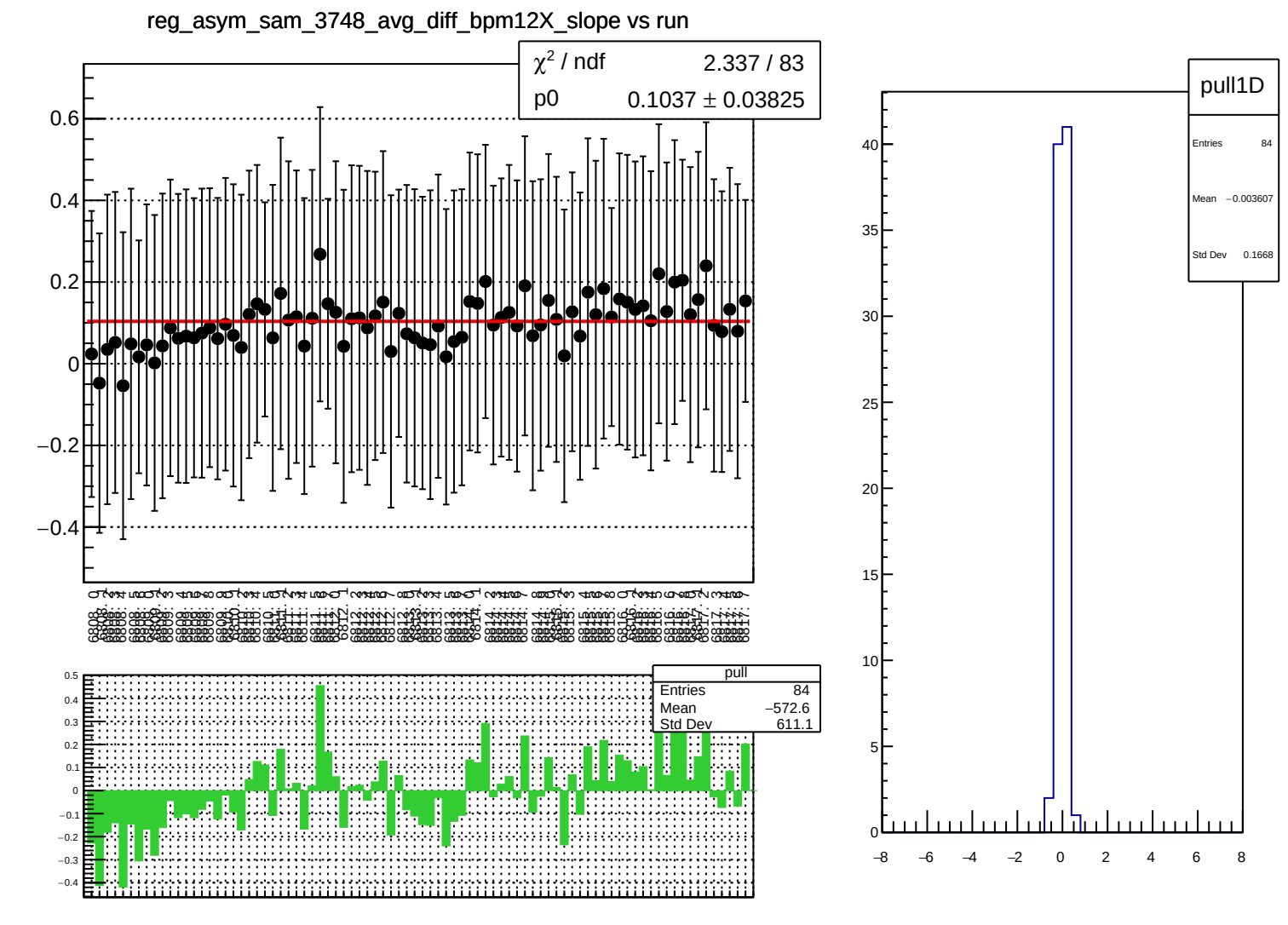

pull1D
Entries 84
Mean 0.007656
Std Dev 0.1684

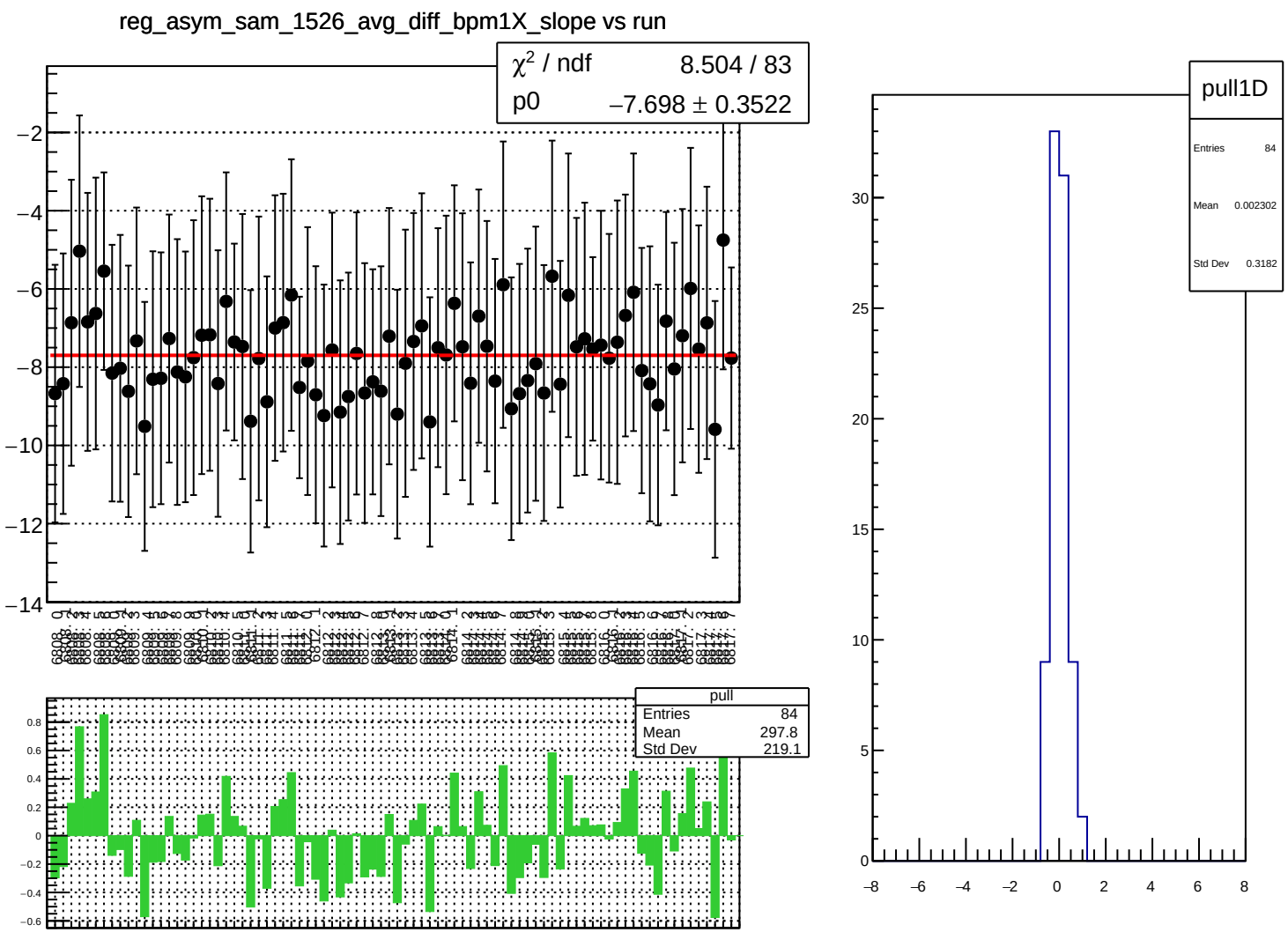

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.148 / 83
p0 −83.45 ± 0.8805
−70
−75
−80
−85
−90
−95
pull
Entries 84
Mean −66.3
Std Dev 124.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

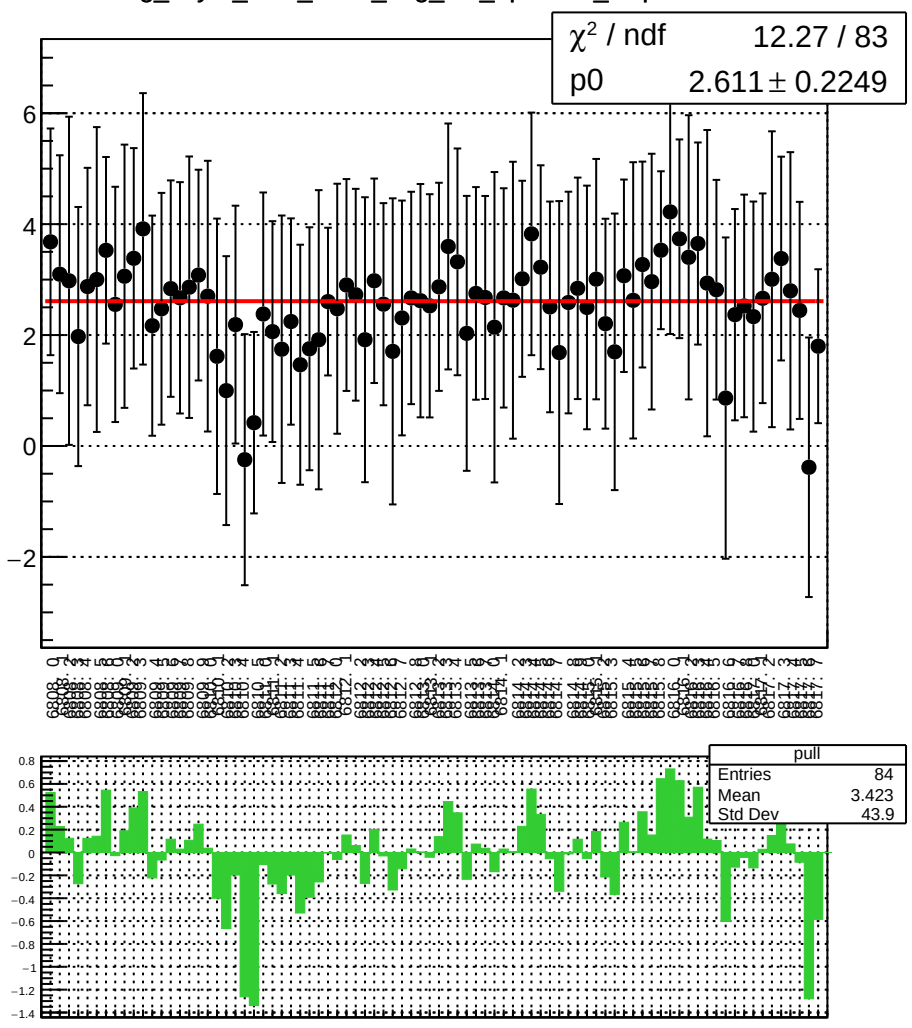

pull1D
Entries 84
Mean −0.006997
Std Dev 0.2704
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

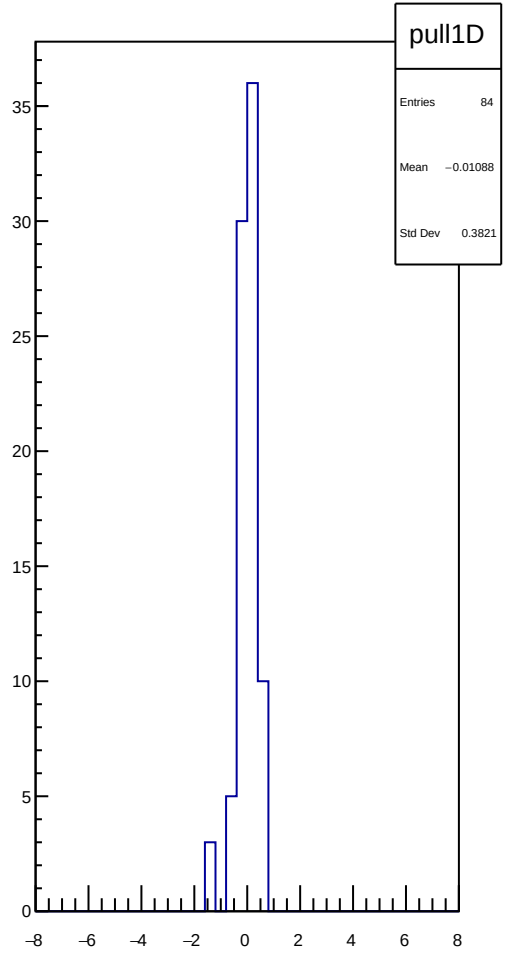

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.241 / 83
p0 63.96 ± 0.7285
pull
Entries 84
Mean 3082
Std Dev 3047

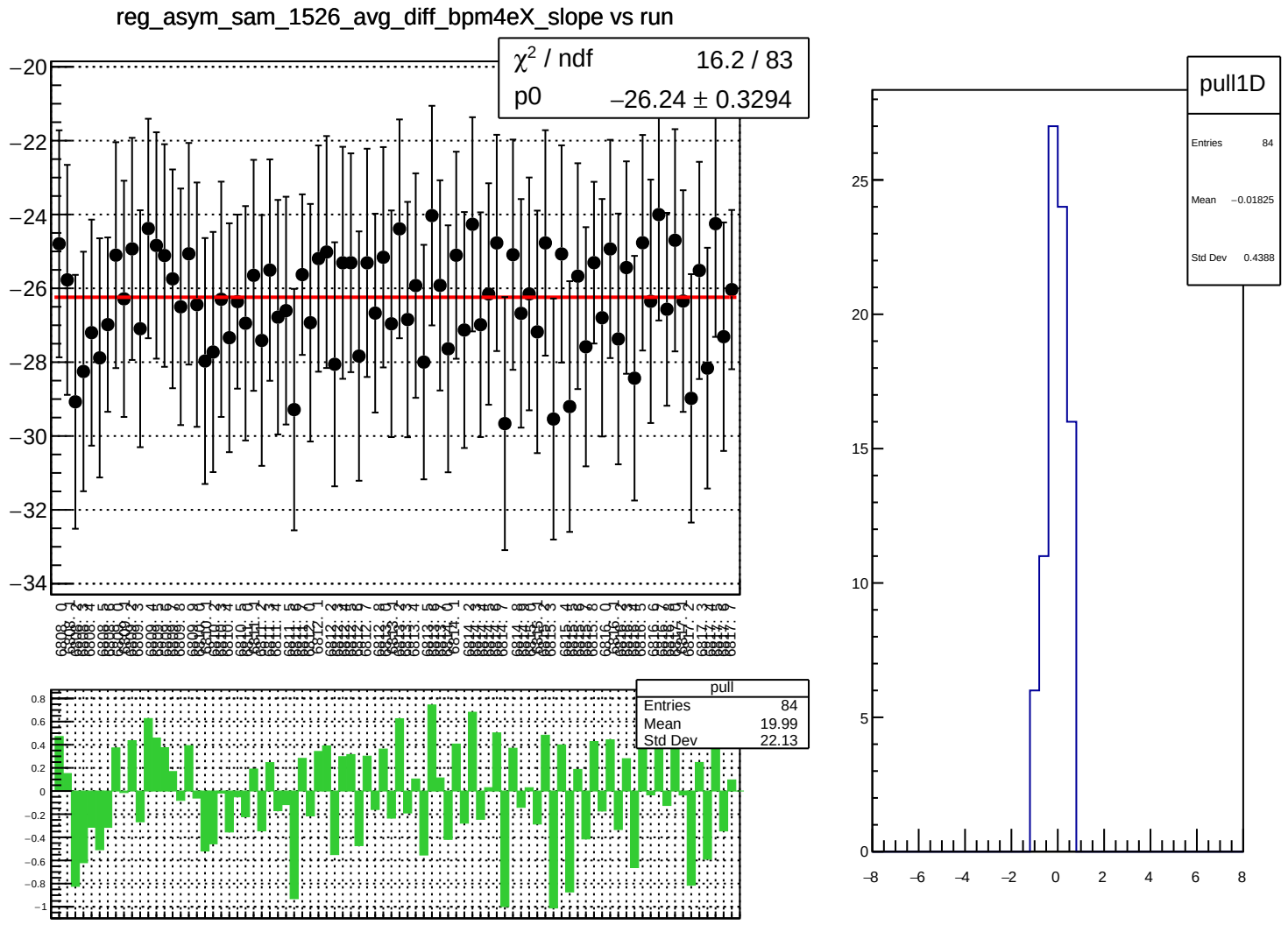

pull1D
Entries 84
Mean 0.0005646
Std Dev 0.1964

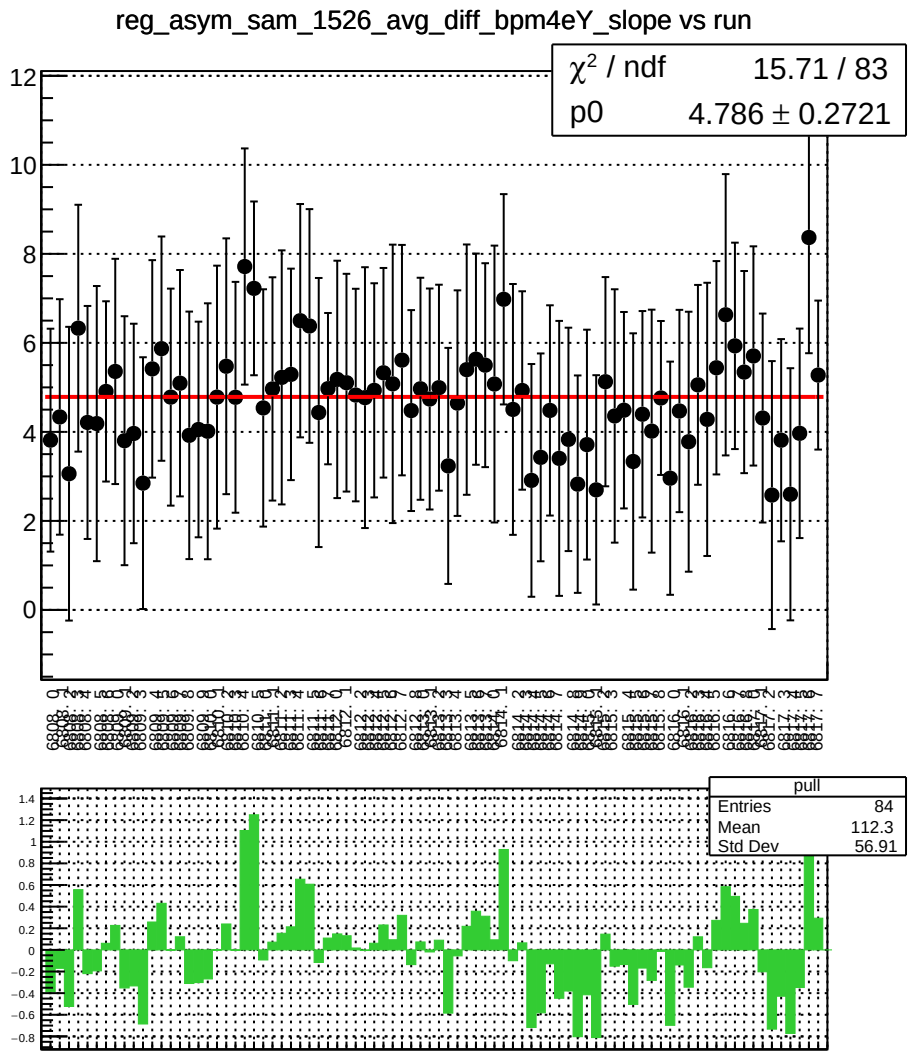

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 2.337 / 83
p0 0.1037 ± 0.03825
pull
Entries 84
Mean −572.6
Std Dev 611.1
pull1D
Entries 84
Mean −0.003607
Std Dev 0.1668

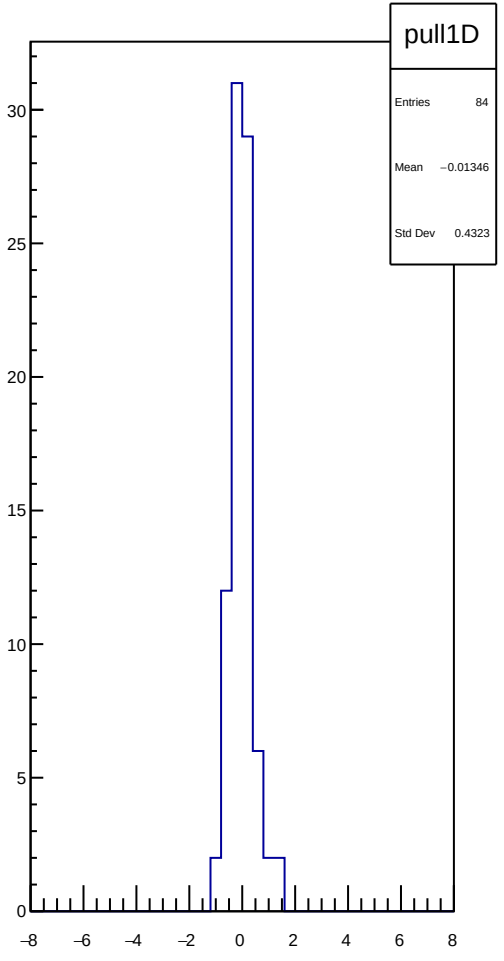

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 8.504 / 83
p0 −7.698 ± 0.3522
pull
Entries 84
Mean 297.8
Std Dev 219.1
pull1D
Entries 84
Mean 0.002302
Std Dev 0.3182

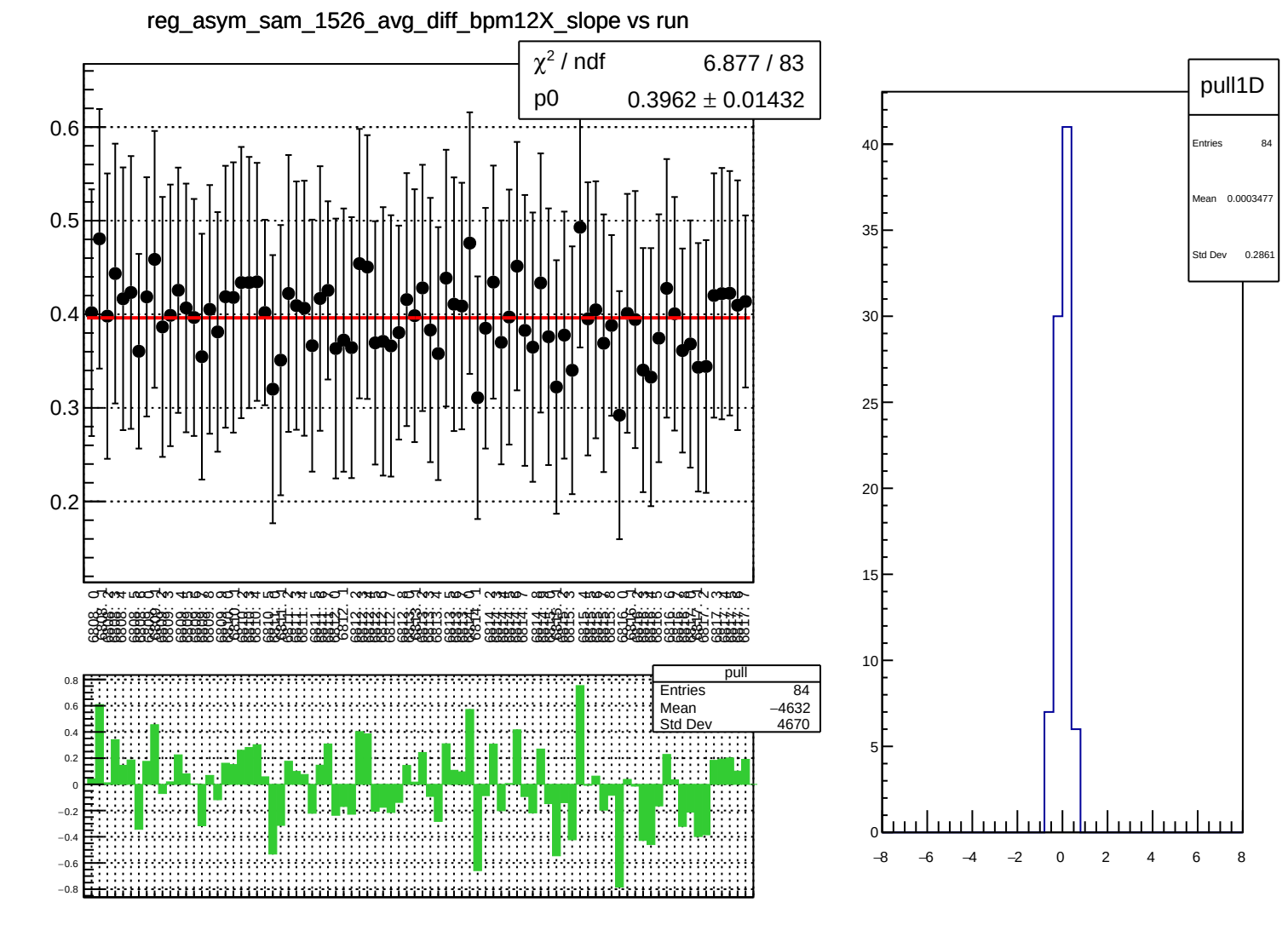

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.27 / 83
p0 2.611 ± 0.2249
pull
Entries 84
Mean 3.423
Std Dev 43.9

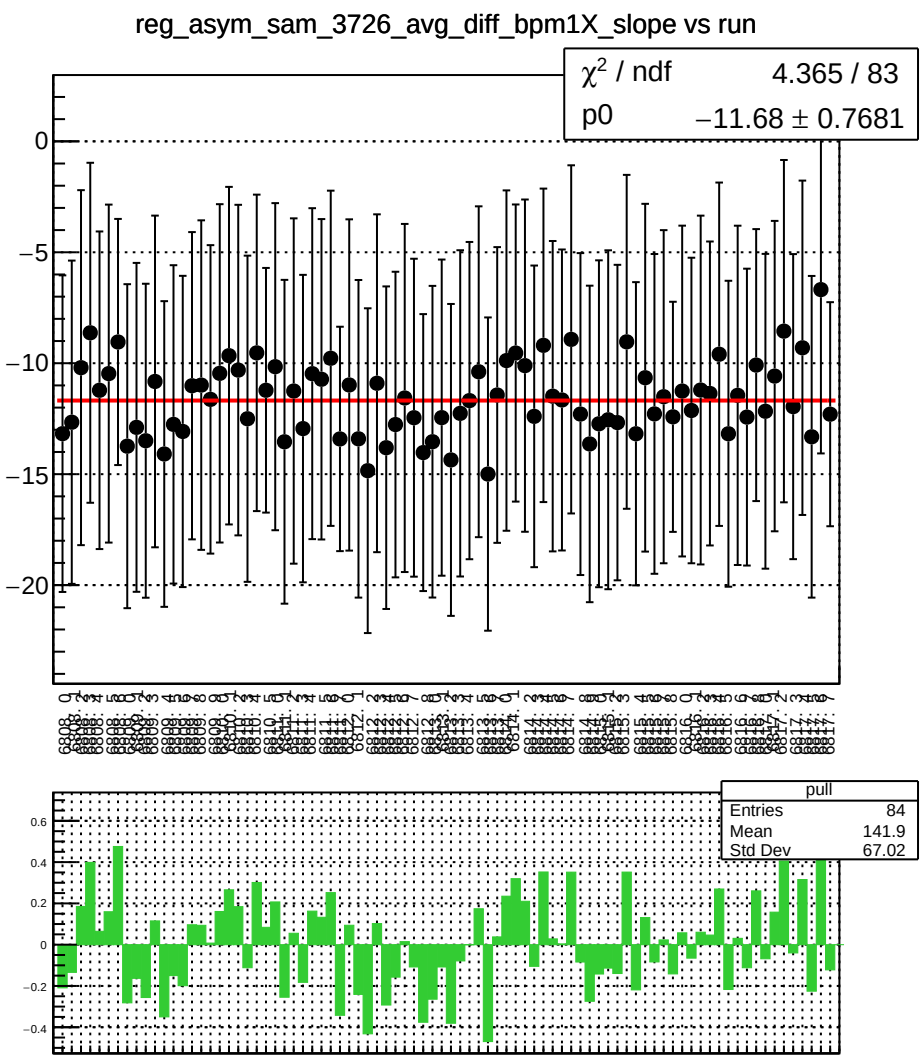

pull1D
Entries 84
Mean −0.01088
Std Dev 0.3821

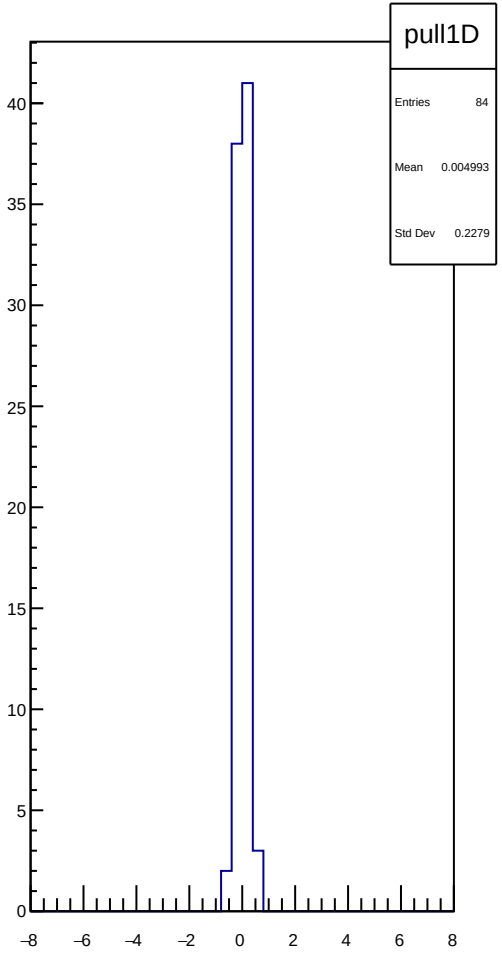

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.2 / 83
p0 −26.24 ± 0.3294
pull
Entries 84
Mean 19.99
Std Dev 22.13
pull1D
Entries 84
Mean −0.01825
Std Dev 0.4388

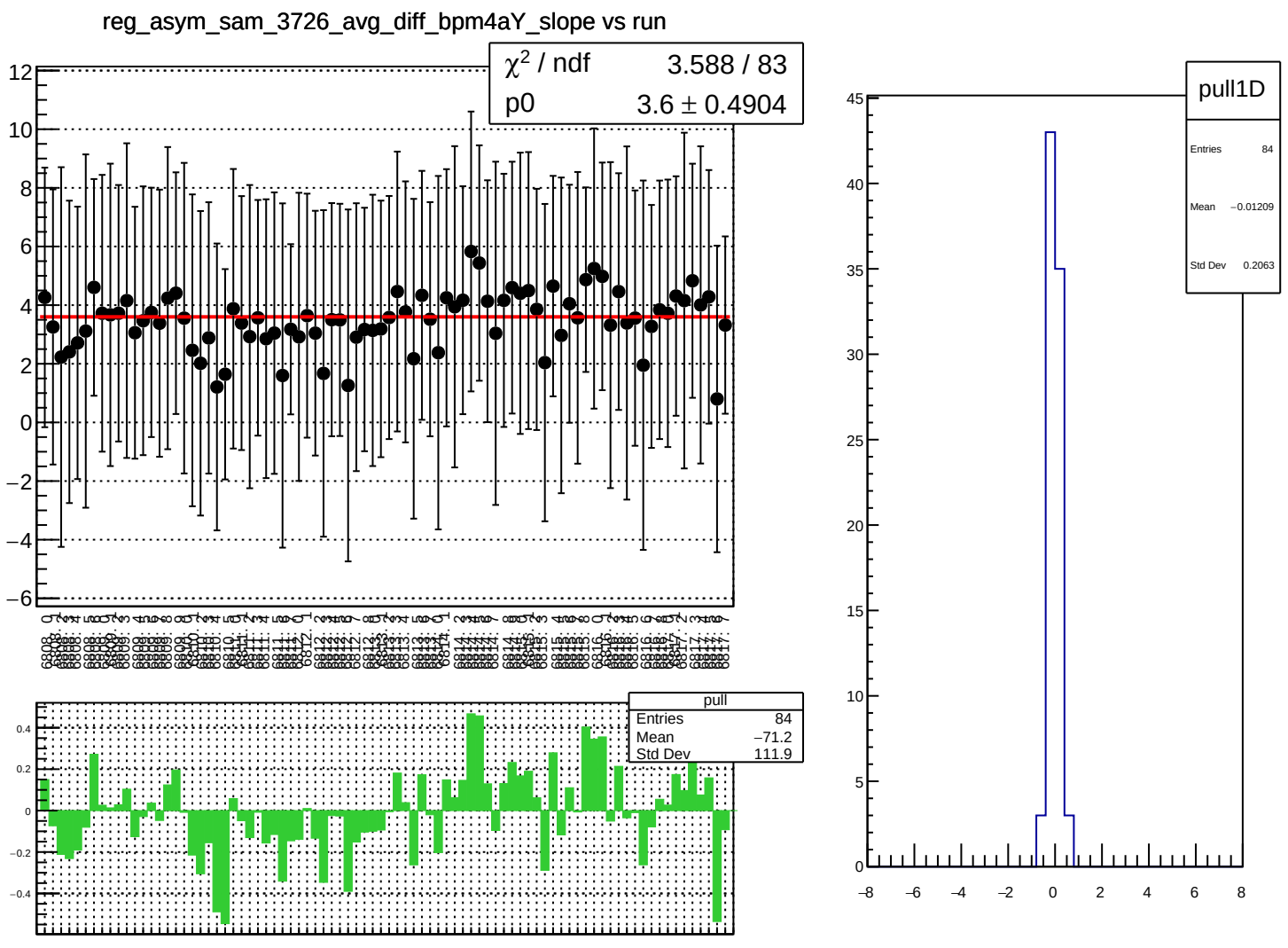

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.71 / 83
p0 4.786 ± 0.2721
pull
Entries 84
Mean 112.3
Std Dev 56.91

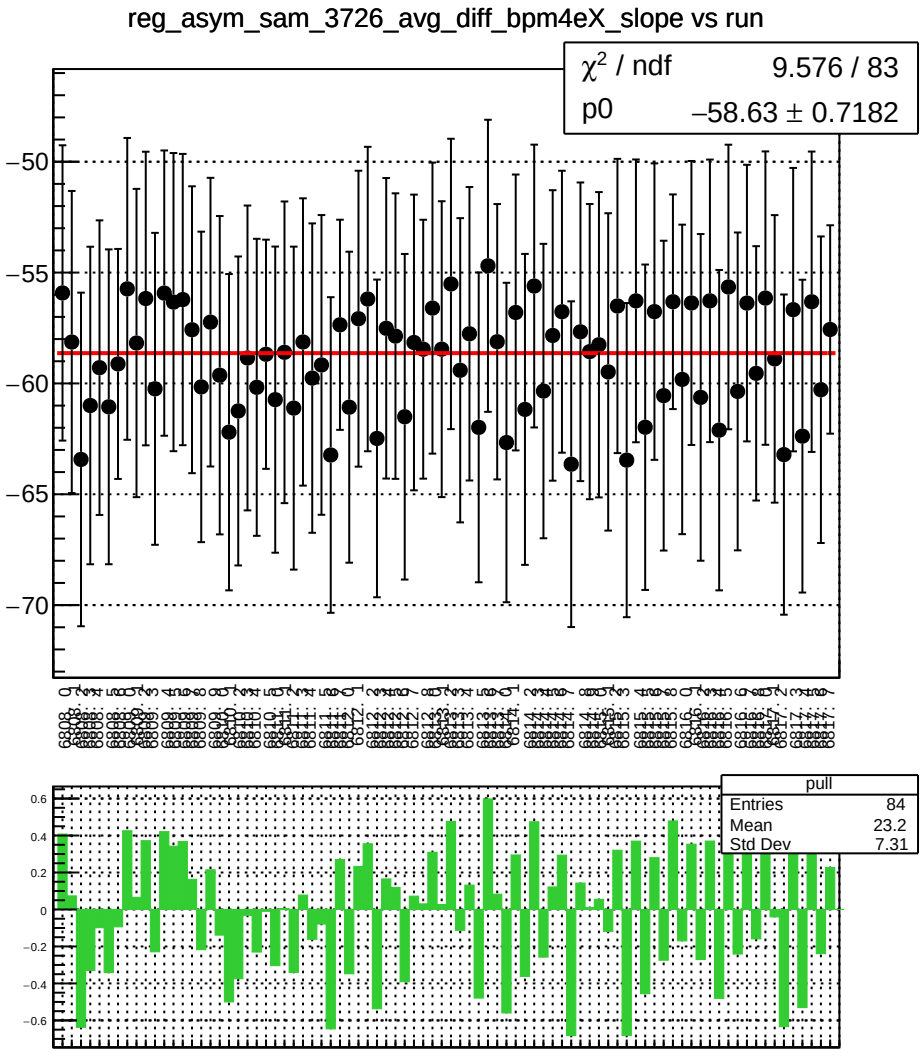

pull1D
Entries 84
Mean −0.01346
Std Dev 0.4323

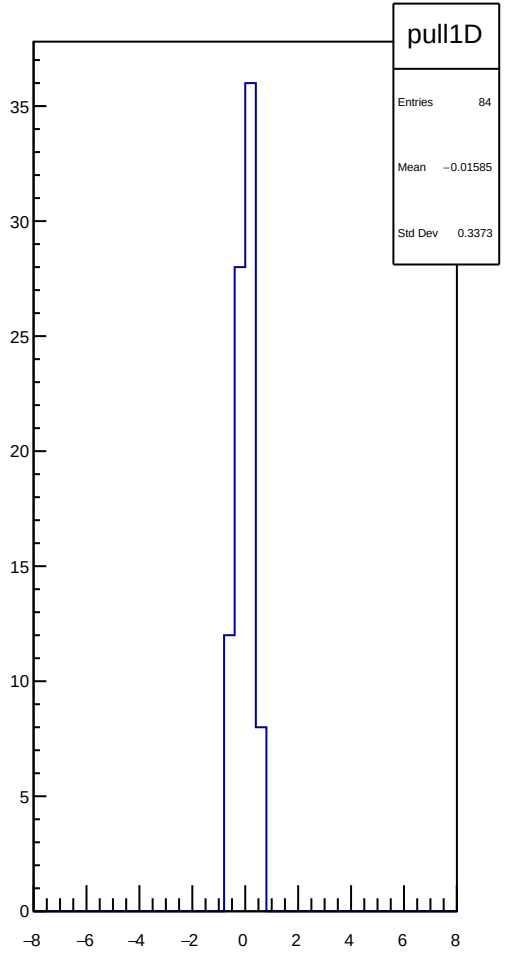

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 6.877 / 83
p0 0.3962 ± 0.01432
0.6
0.5
0.4
0.3
0.2
pull
Entries 84
Mean −4632
Std Dev 4670
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 84
Mean 0.0003477
Std Dev 0.2861
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

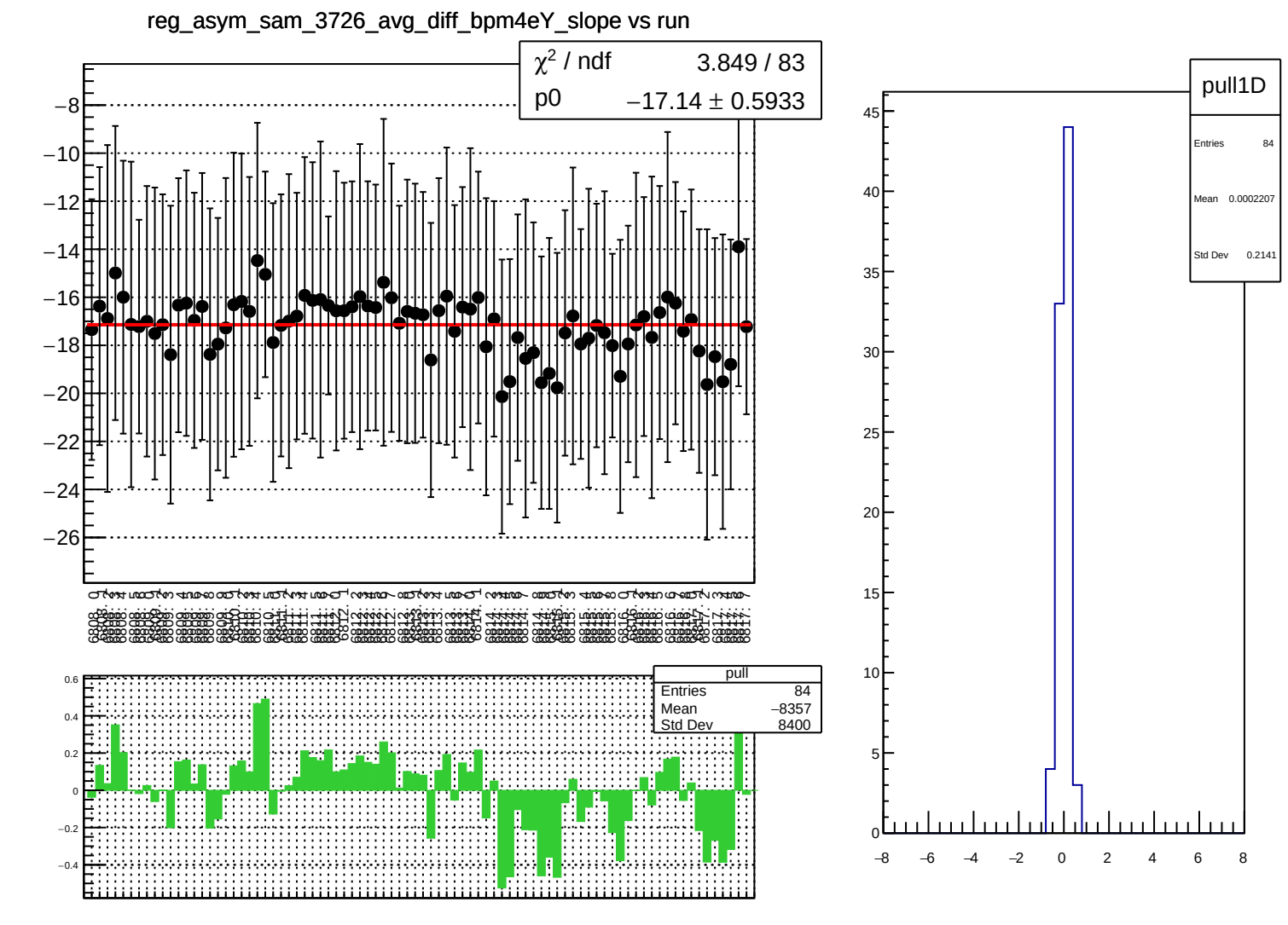

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 4.365 / 83
p0 −11.68 ± 0.7681
pull
Entries 84
Mean 141.9
Std Dev 67.02

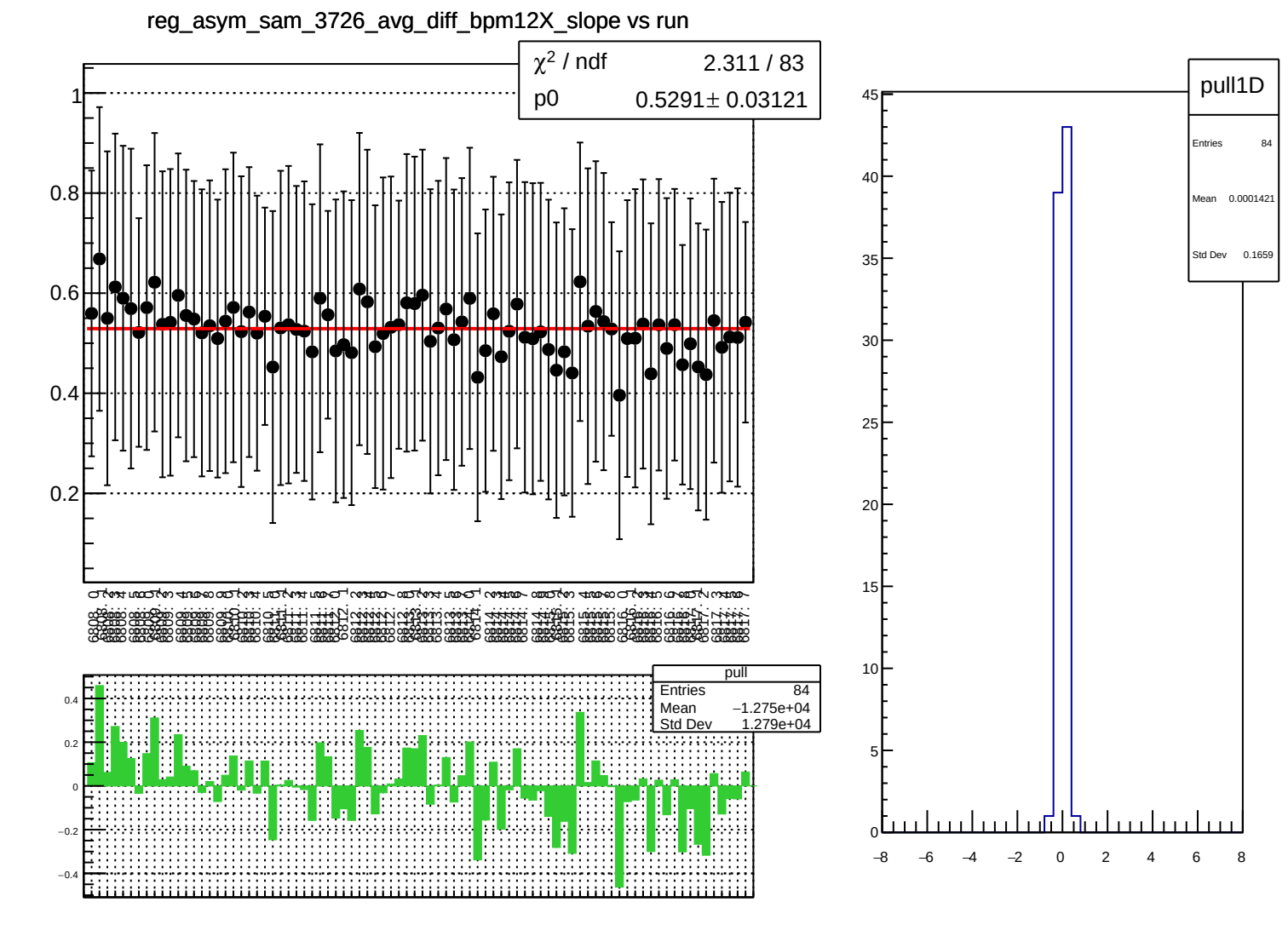

pull1D
Entries 84
Mean 0.004993
Std Dev 0.2279

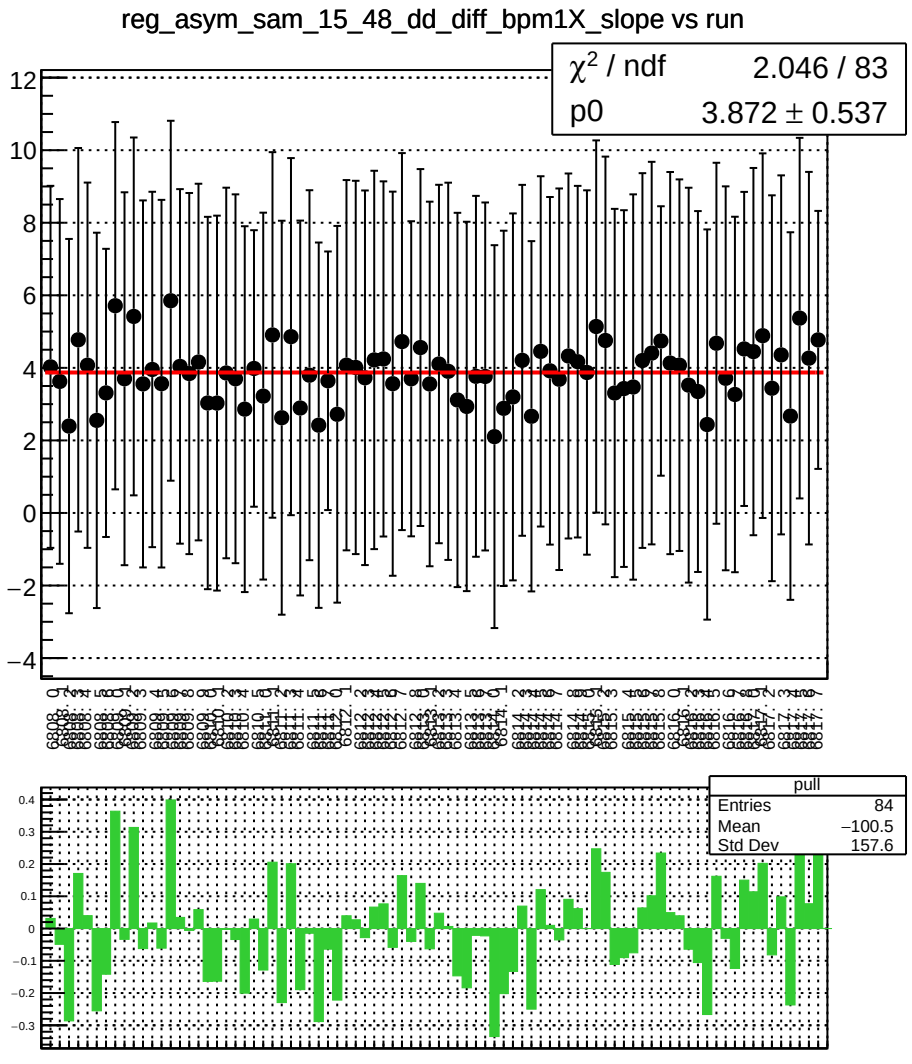

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.588 / 83
p0 3.6 ± 0.4904
pull
Entries 84
Mean −71.2
Std Dev 111.9
pull1D
Entries 84
Mean −0.01209
Std Dev 0.2063

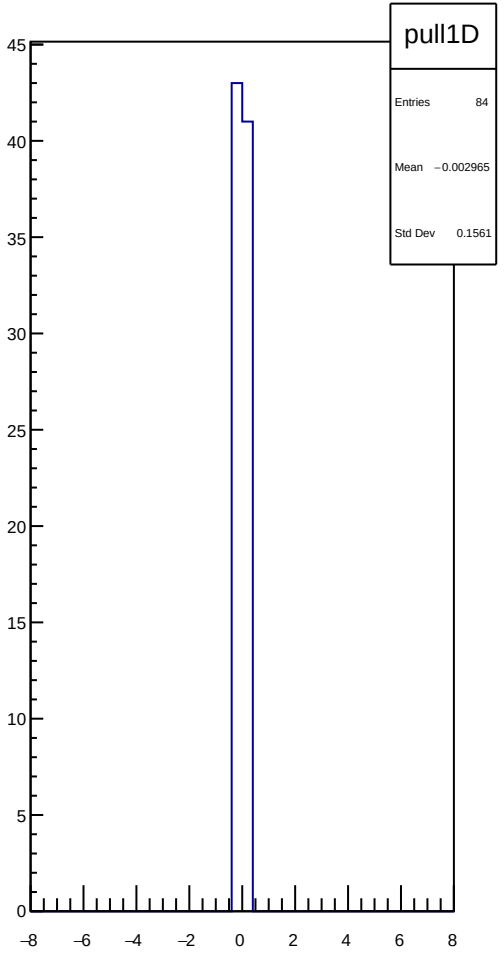

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.576 / 83
p0 −58.63 ± 0.7182
−50
−55
−60
−65
−70
pull
Entries 84
Mean 23.2
Std Dev 7.31
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

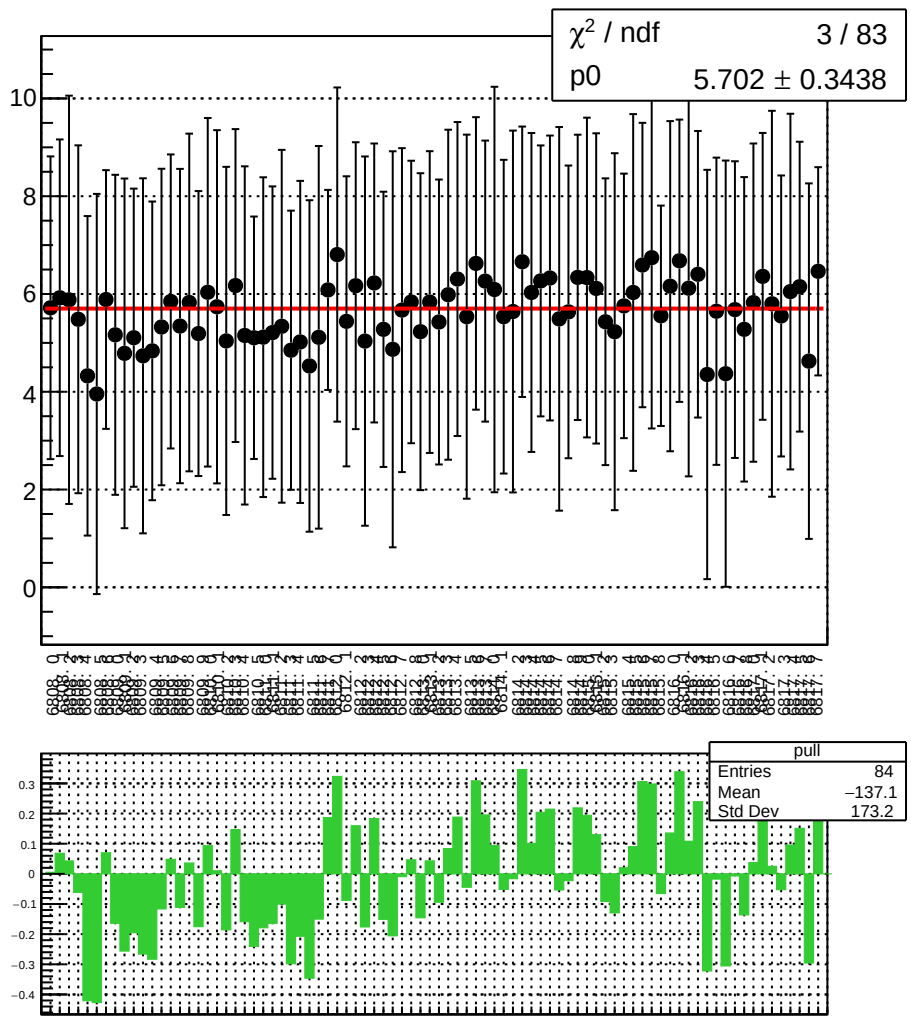

pull1D
Entries 84
Mean −0.01585
Std Dev 0.3373
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

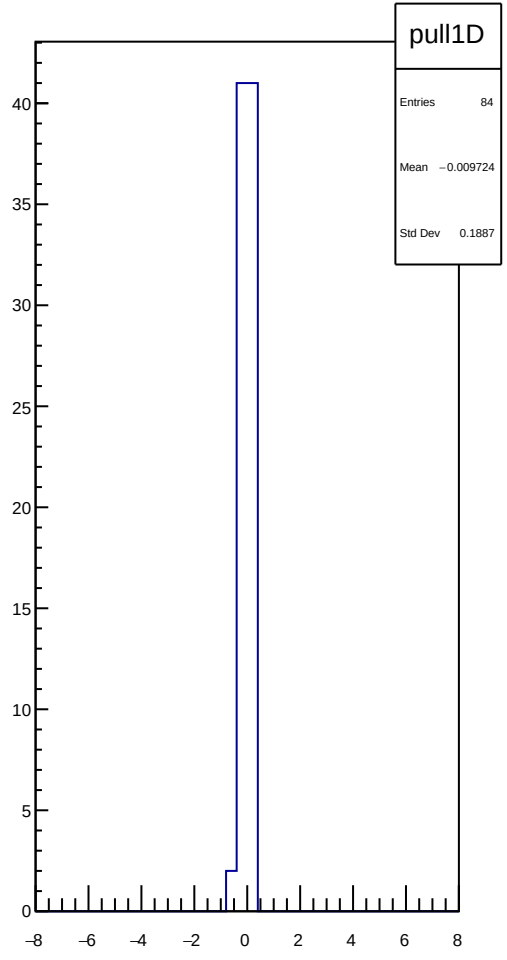

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.849 / 83
p0 −17.14 ± 0.5933
pull
Entries 84
Mean −8357
Std Dev 8400
pull1D
Entries 84
Mean 0.0002207
Std Dev 0.2141

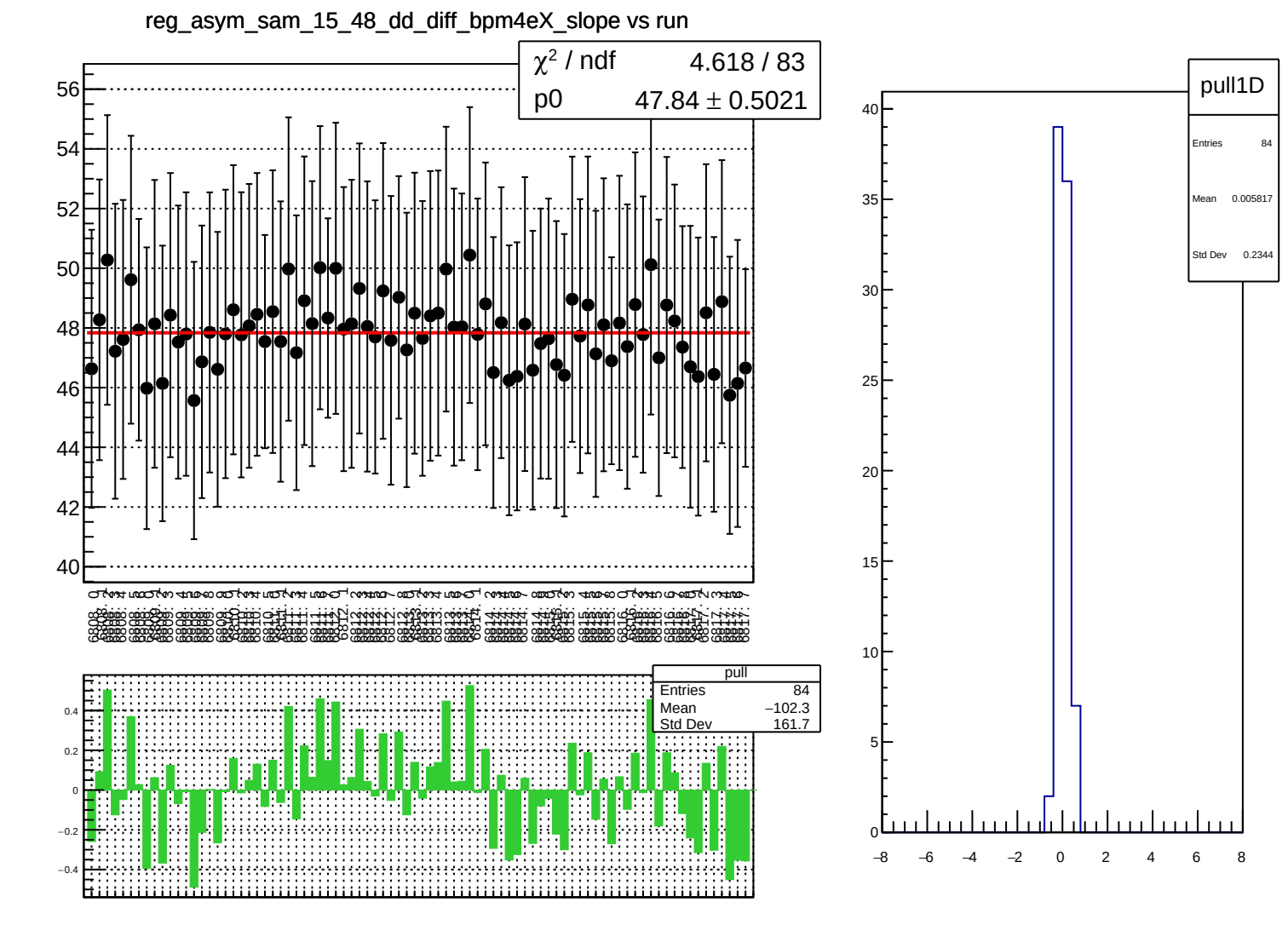

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 2.311 / 83
p0 0.5291± 0.03121
pull
Entries 84
Mean −1.275e+04
Std Dev 1.279e+04
pull1D
Entries 84
Mean 0.0001421
Std Dev 0.1659

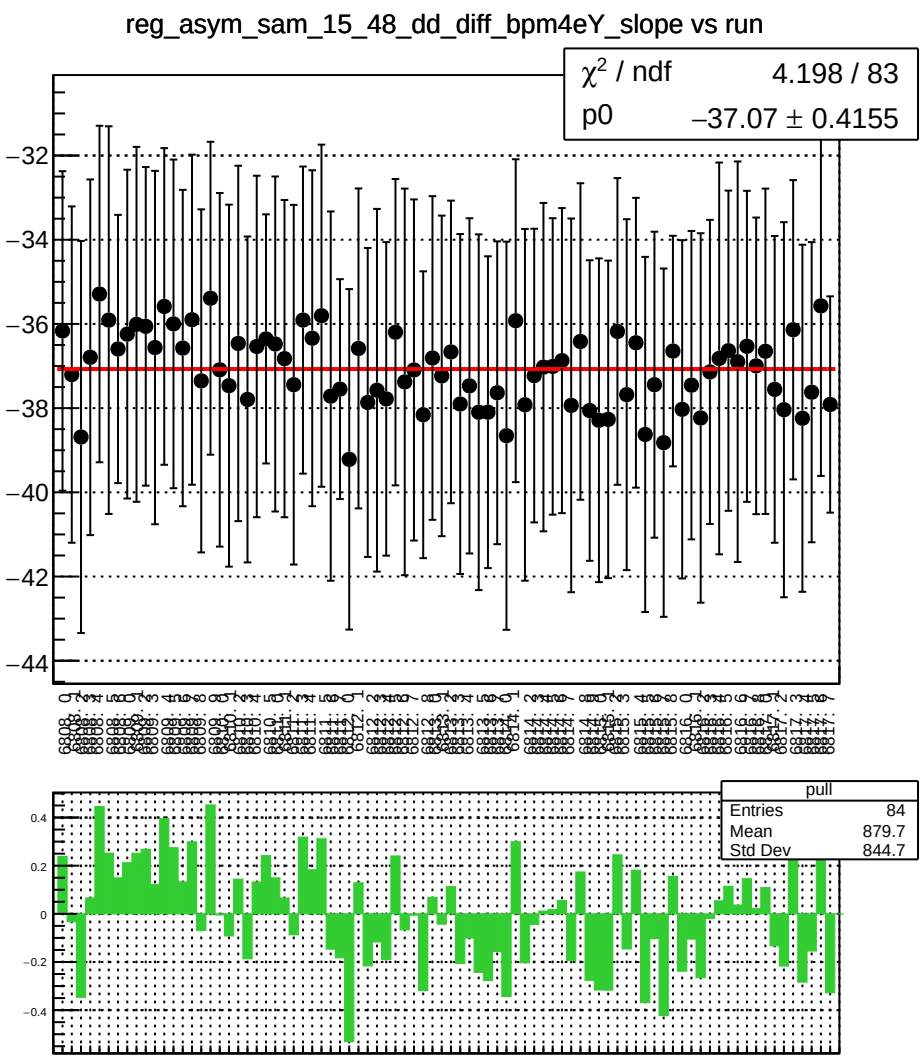

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.046 / 83
p0 3.872 ± 0.537
pull
Entries 84
Mean −100.5
Std Dev 157.6

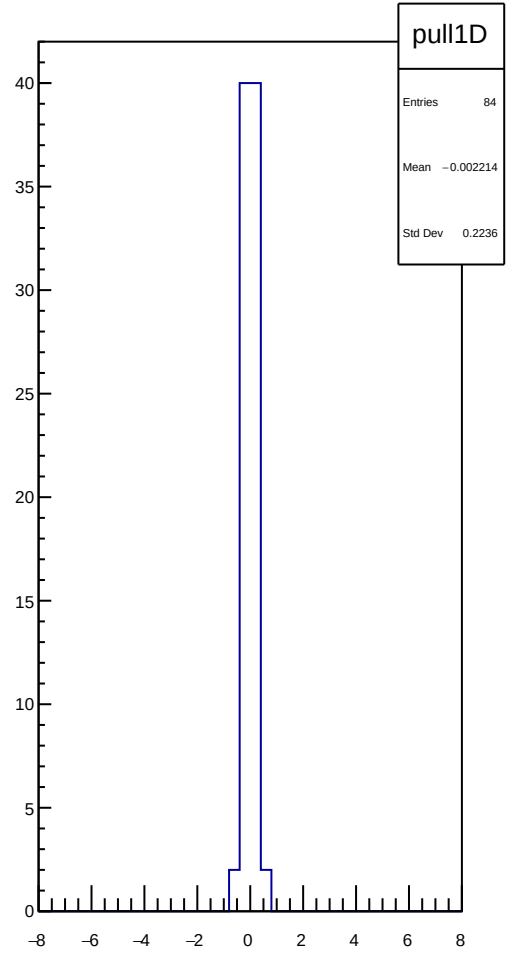

pull1D
Entries 84
Mean −0.002965
Std Dev 0.1561

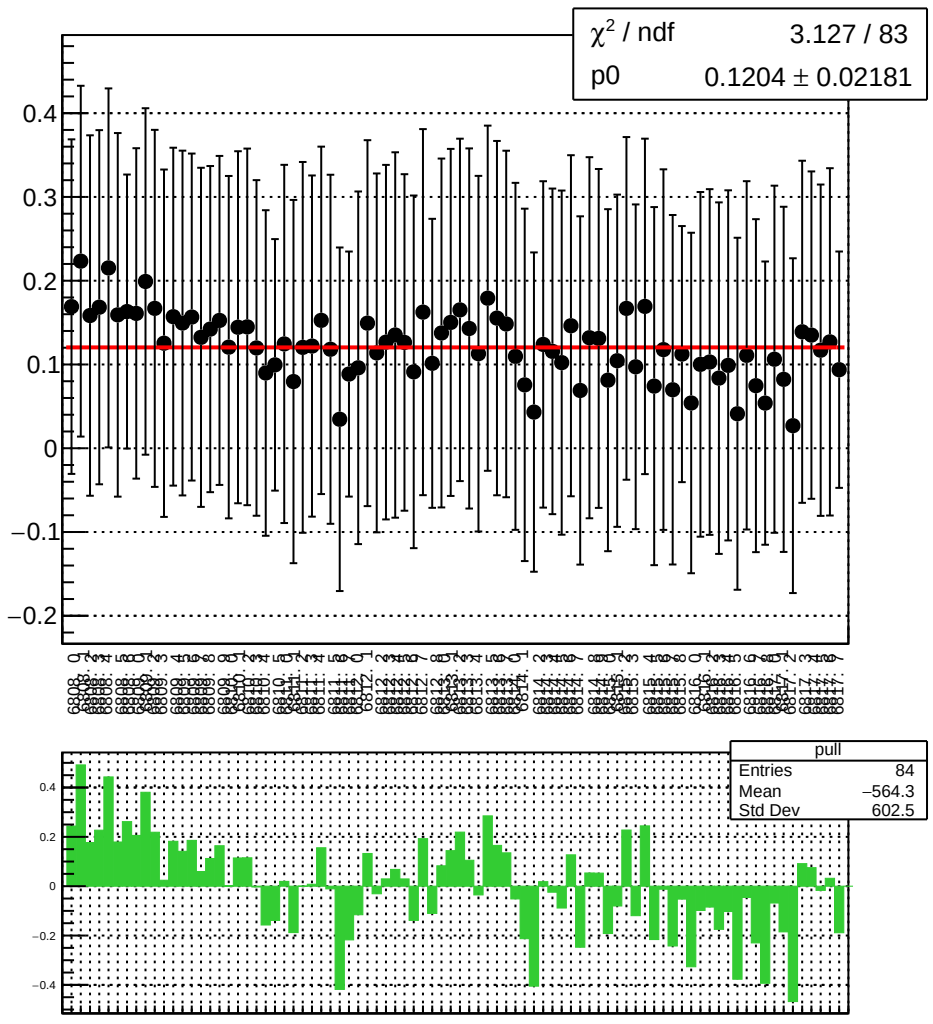

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3 / 83
p0 5.702 ± 0.3438
pull
Entries 84
Mean −137.1
Std Dev 173.2

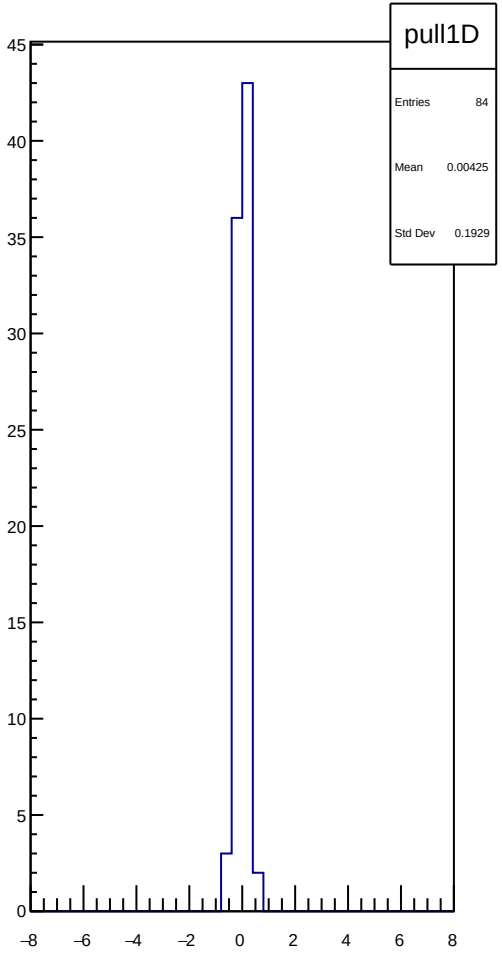

pull1D
Entries 84
Mean −0.009724
Std Dev 0.1887

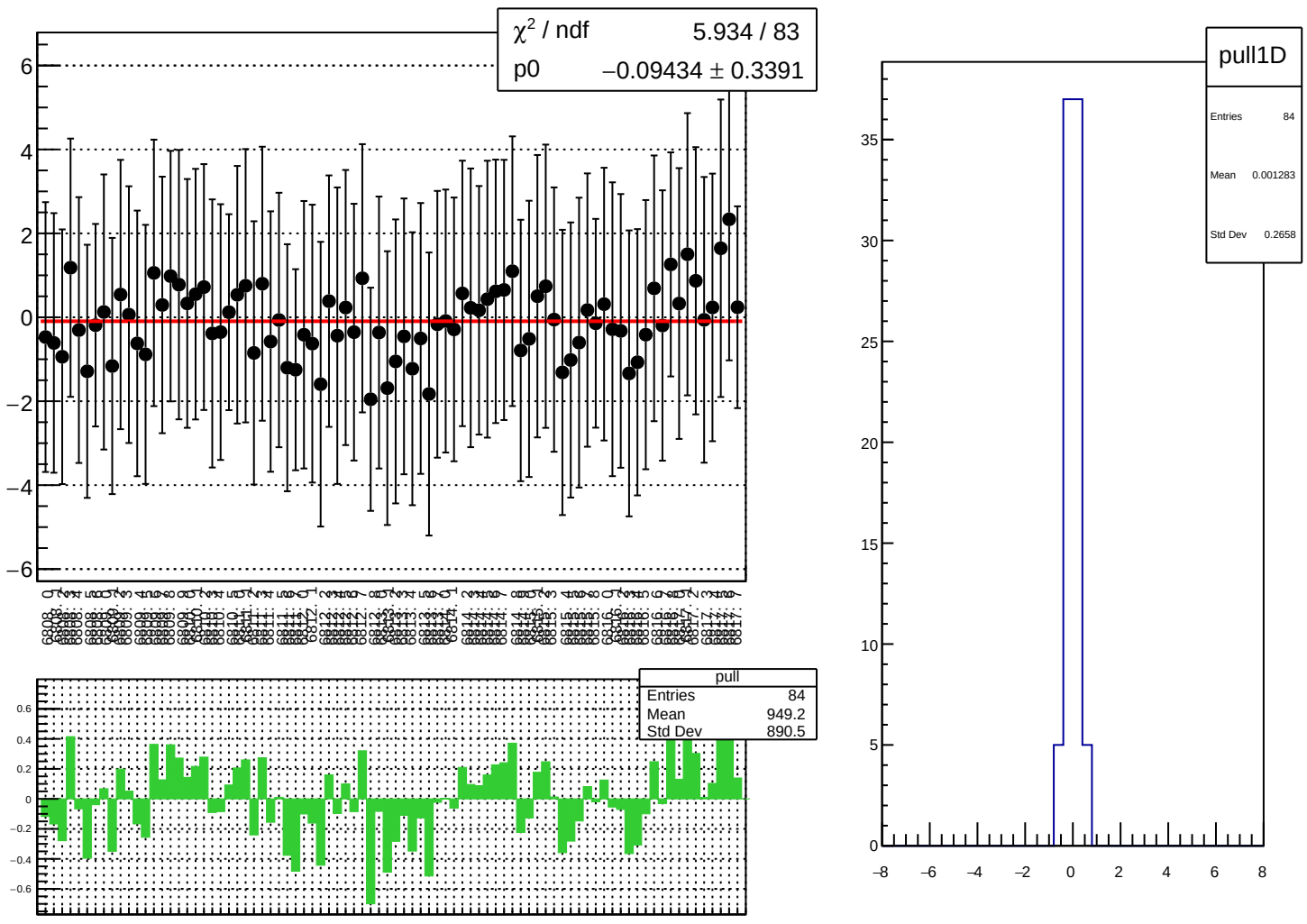

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.618 / 83
p0 47.84 ± 0.5021
pull
Entries 84
Mean −102.3
Std Dev 161.7
pull1D
Entries 84
Mean 0.005817
Std Dev 0.2344

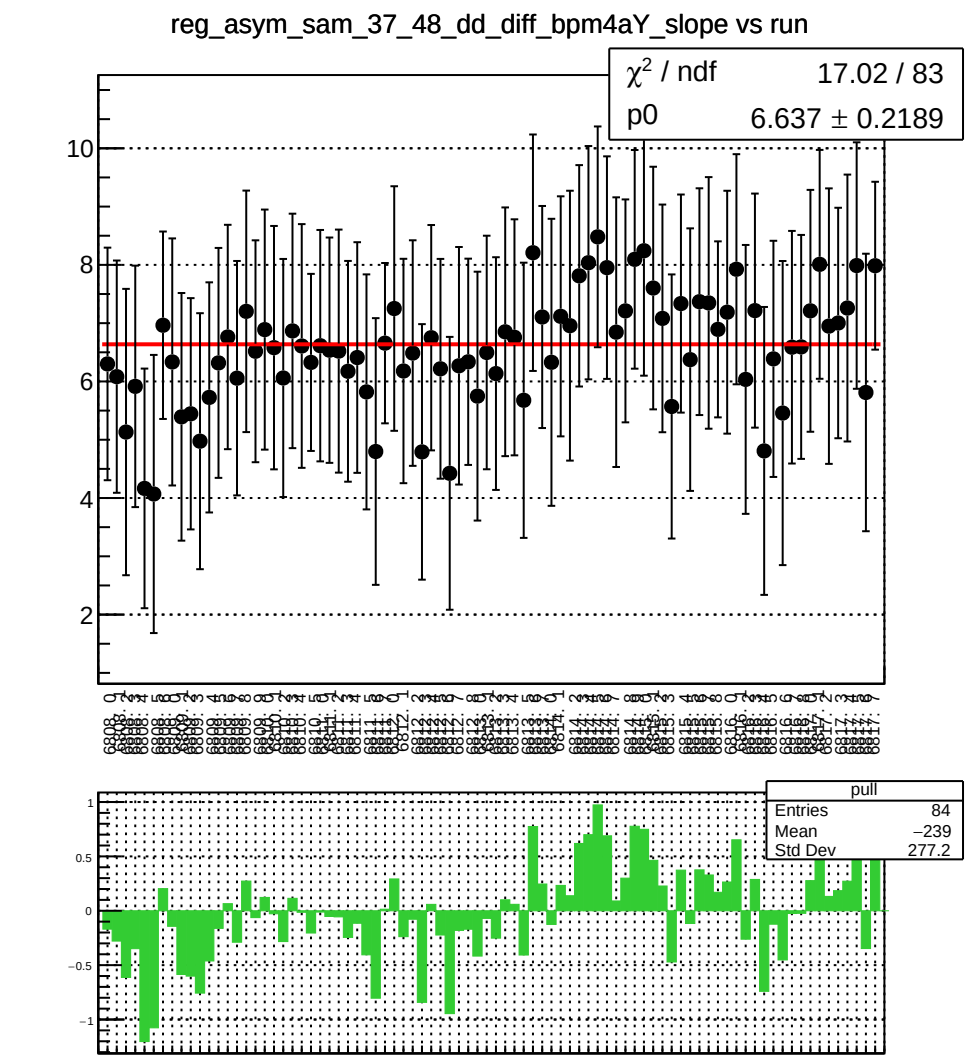

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.198 / 83
p0 −37.07 ± 0.4155
pull
Entries 84
Mean 879.7
Std Dev 844.7

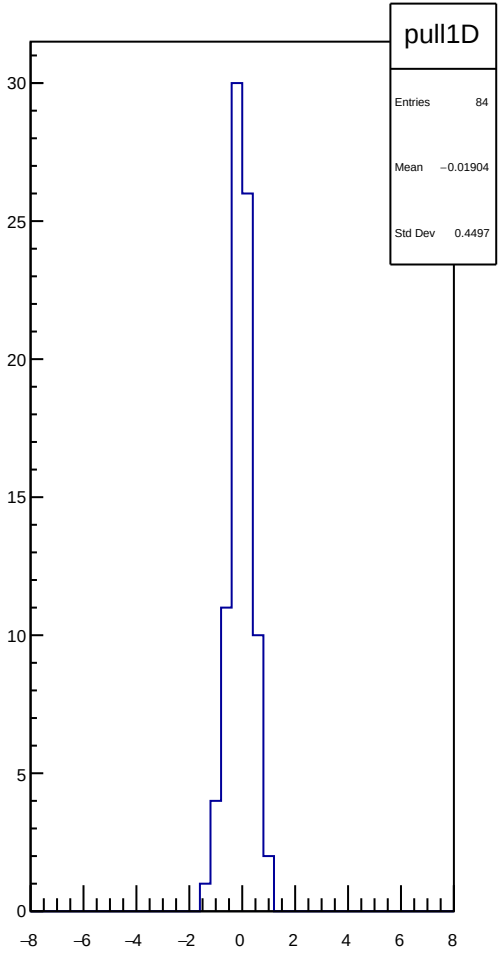

pull1D
Entries 84
Mean −0.002214
Std Dev 0.2236

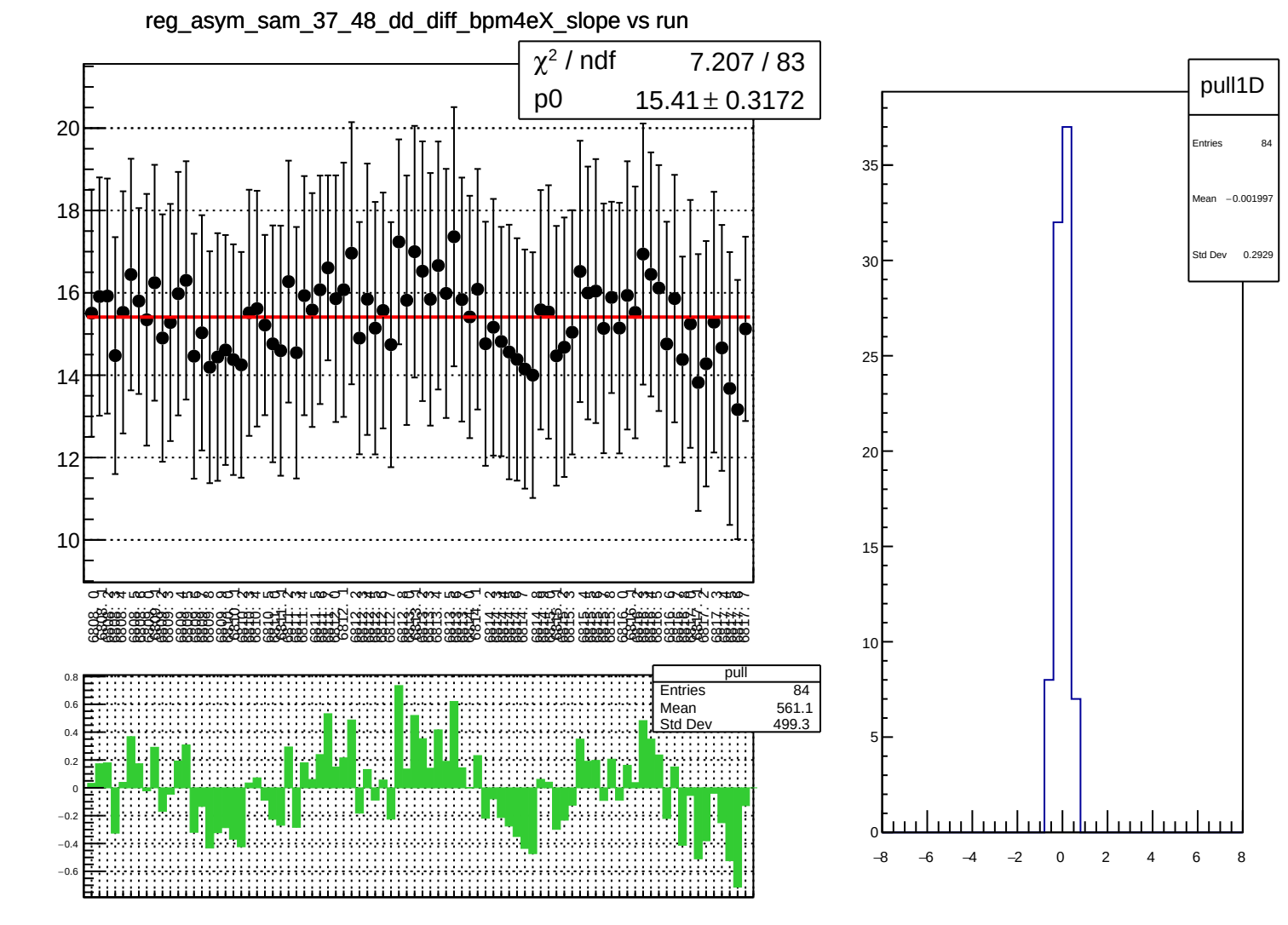

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.127 / 83
p0 0.1204 ± 0.02181
pull
Entries 84
Mean −564.3
Std Dev 602.5

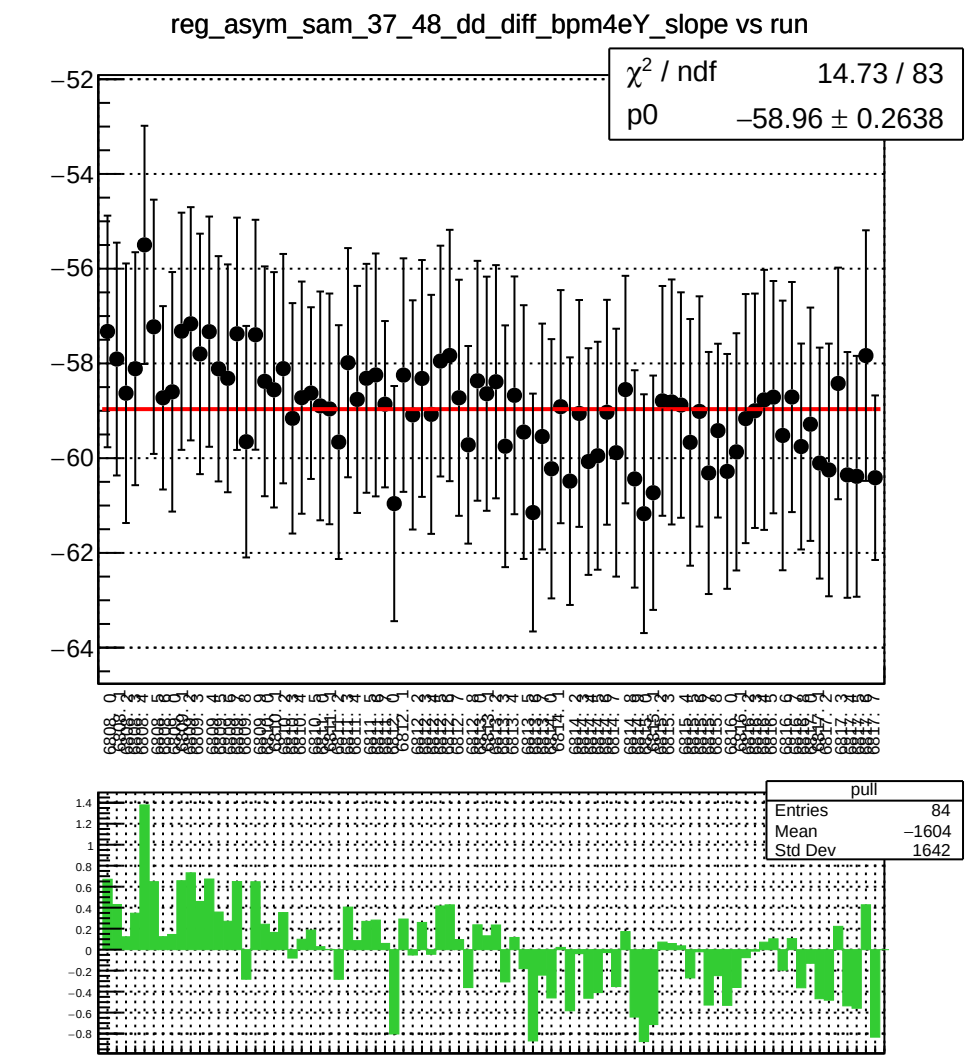

pull1D
Entries 84
Mean 0.00425
Std Dev 0.1929

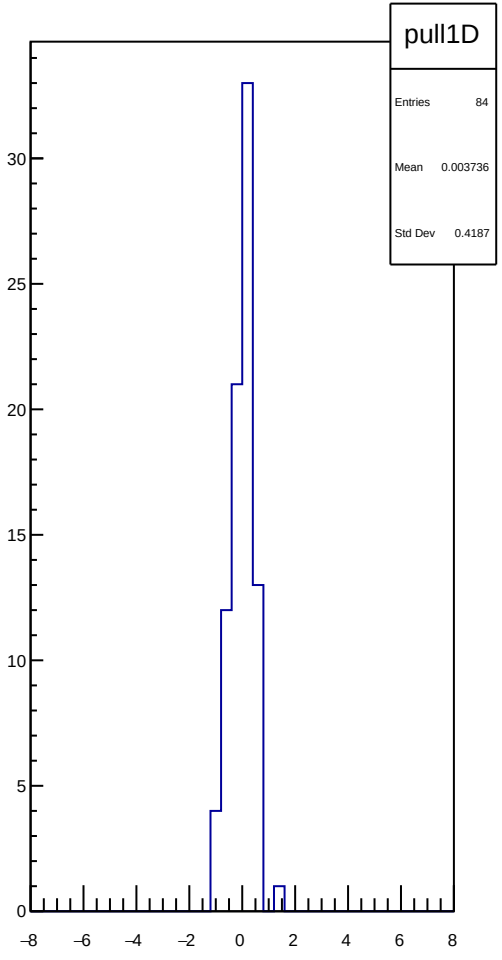

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 5.934 / 83
p0 −0.09434 ± 0.3391
pull
Entries 84
Mean 949.2
Std Dev 890.5
pull1D
Entries 84
Mean 0.001283
Std Dev 0.2658

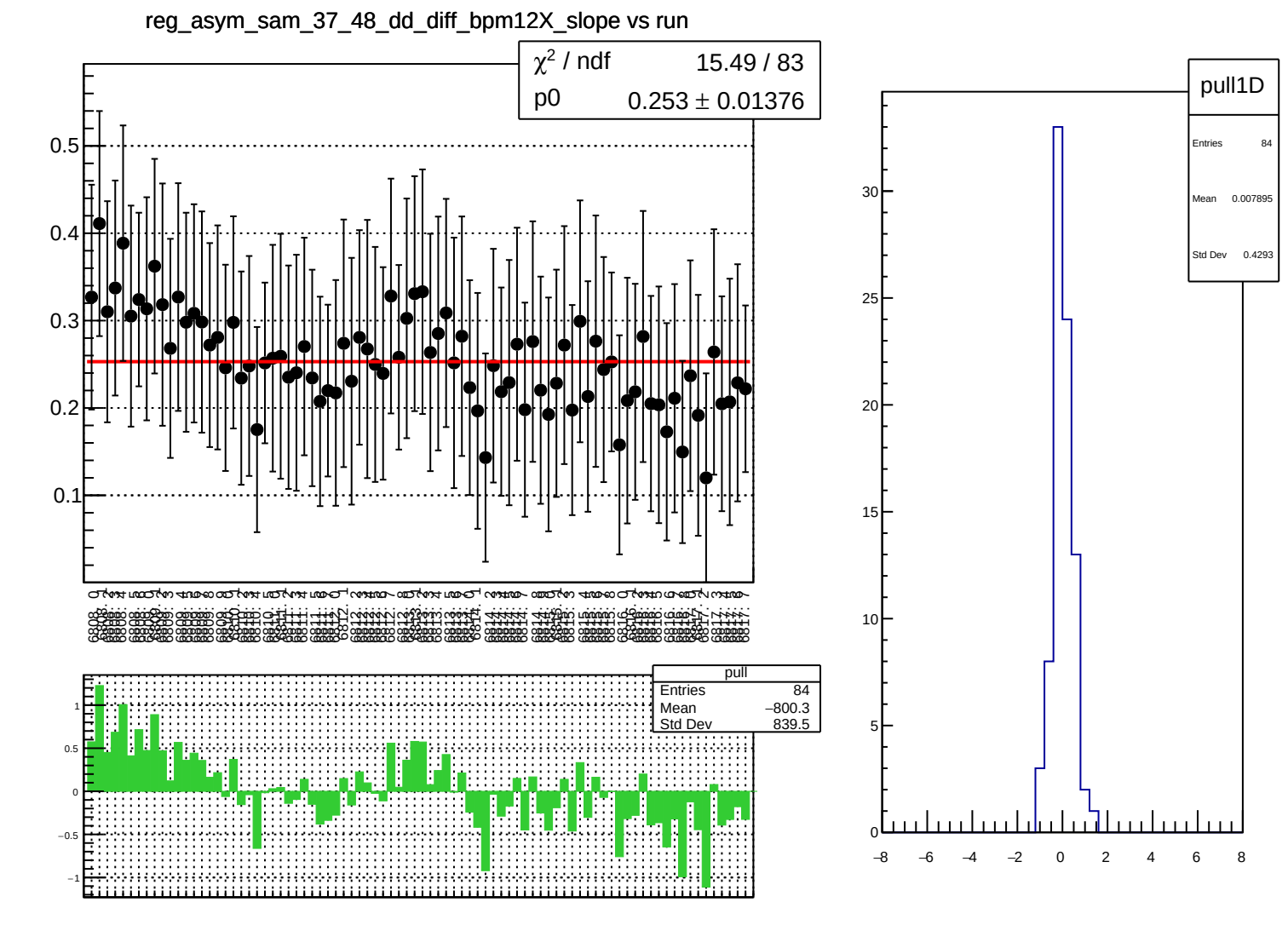

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.02 / 83
p0 6.637 ± 0.2189
pull
Entries 84
Mean −239
Std Dev 277.2

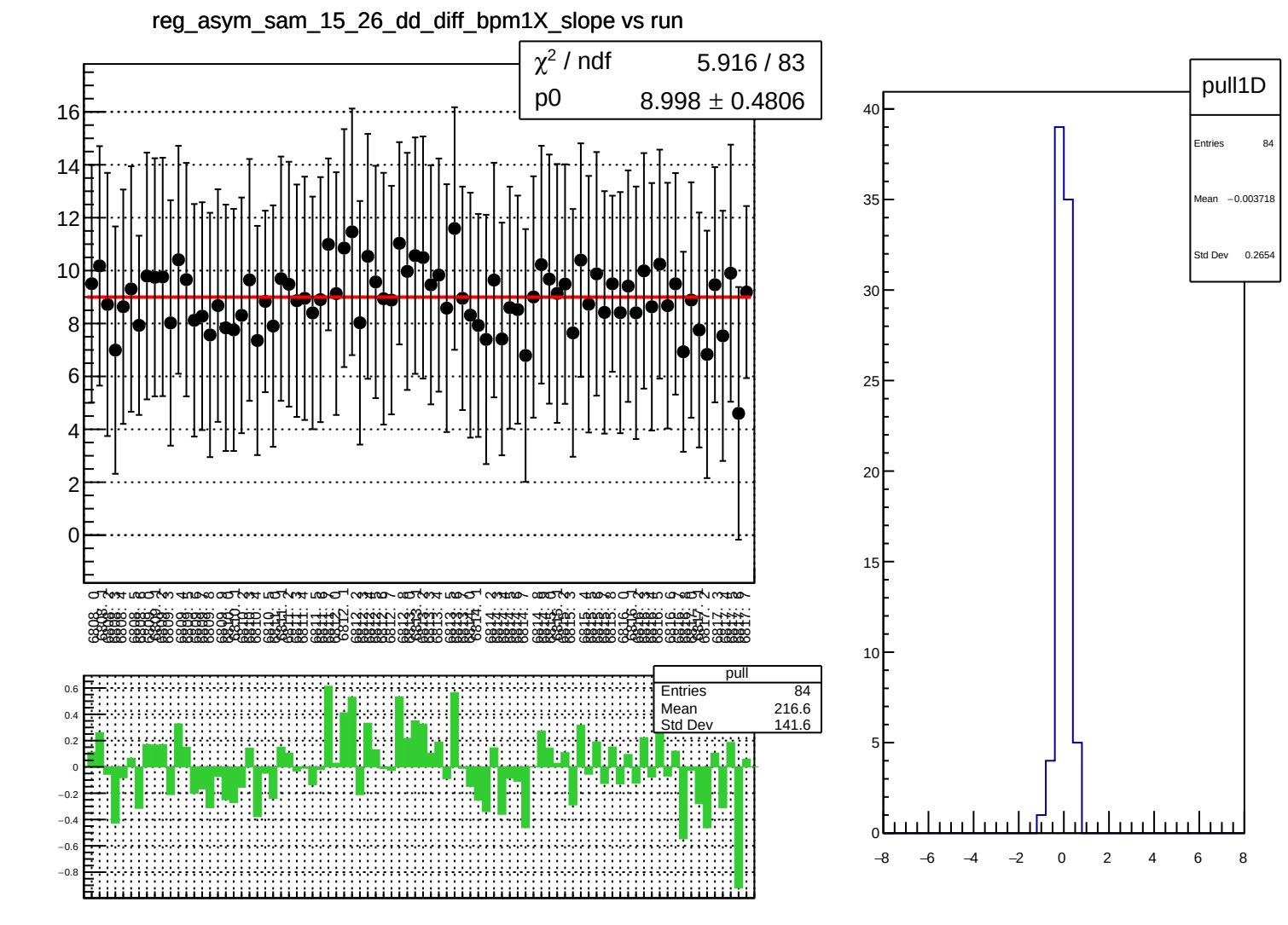

pull1D
Entries 84
Mean −0.01904
Std Dev 0.4497

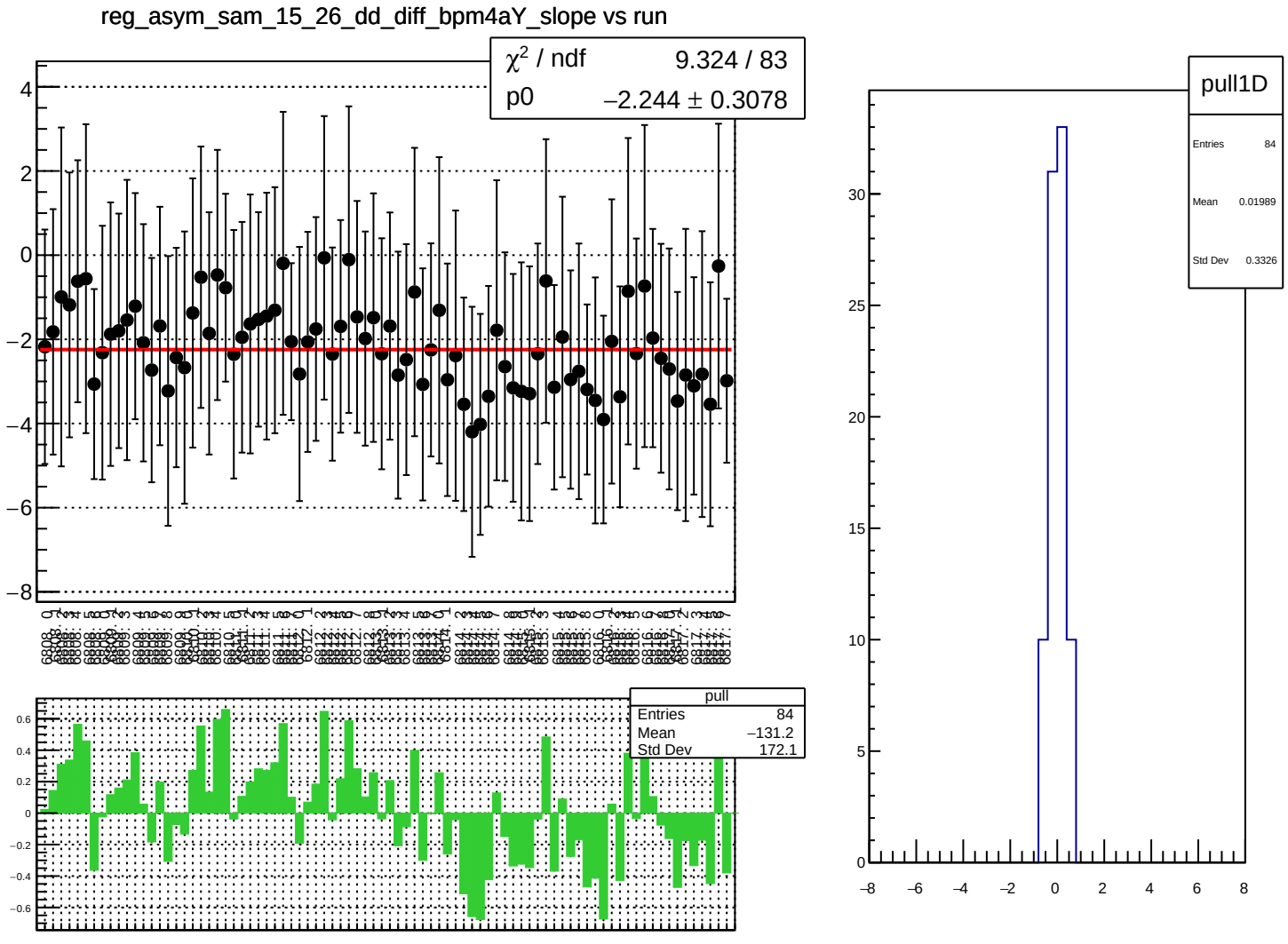

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.207 / 83
p0 15.41 ± 0.3172
pull
Entries 84
Mean 561.1
Std Dev 499.3
pull1D
Entries 84
Mean −0.001997
Std Dev 0.2929

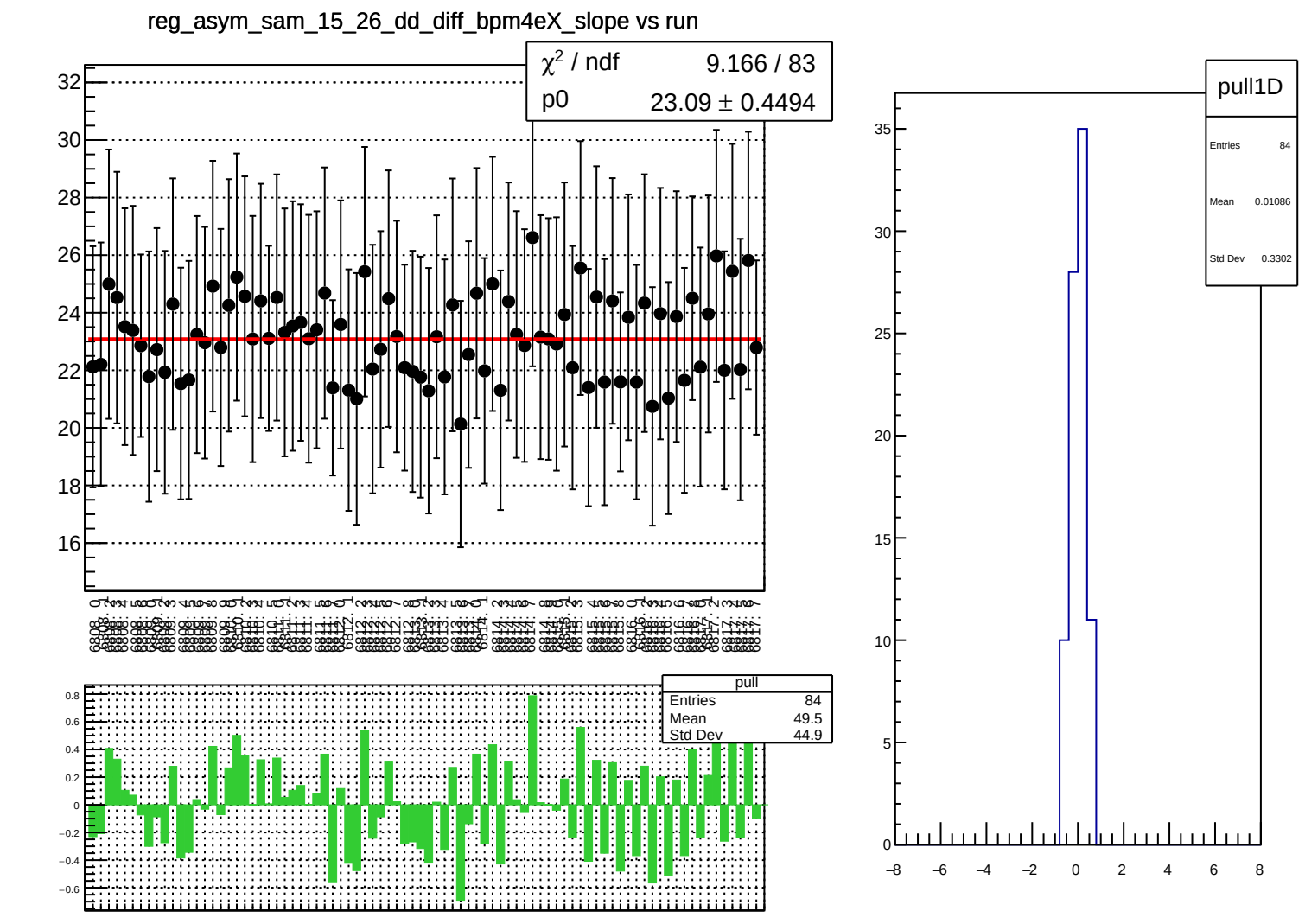

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.73 / 83
p0 −58.96 ± 0.2638
pull
Entries 84
Mean −1604
Std Dev 1642

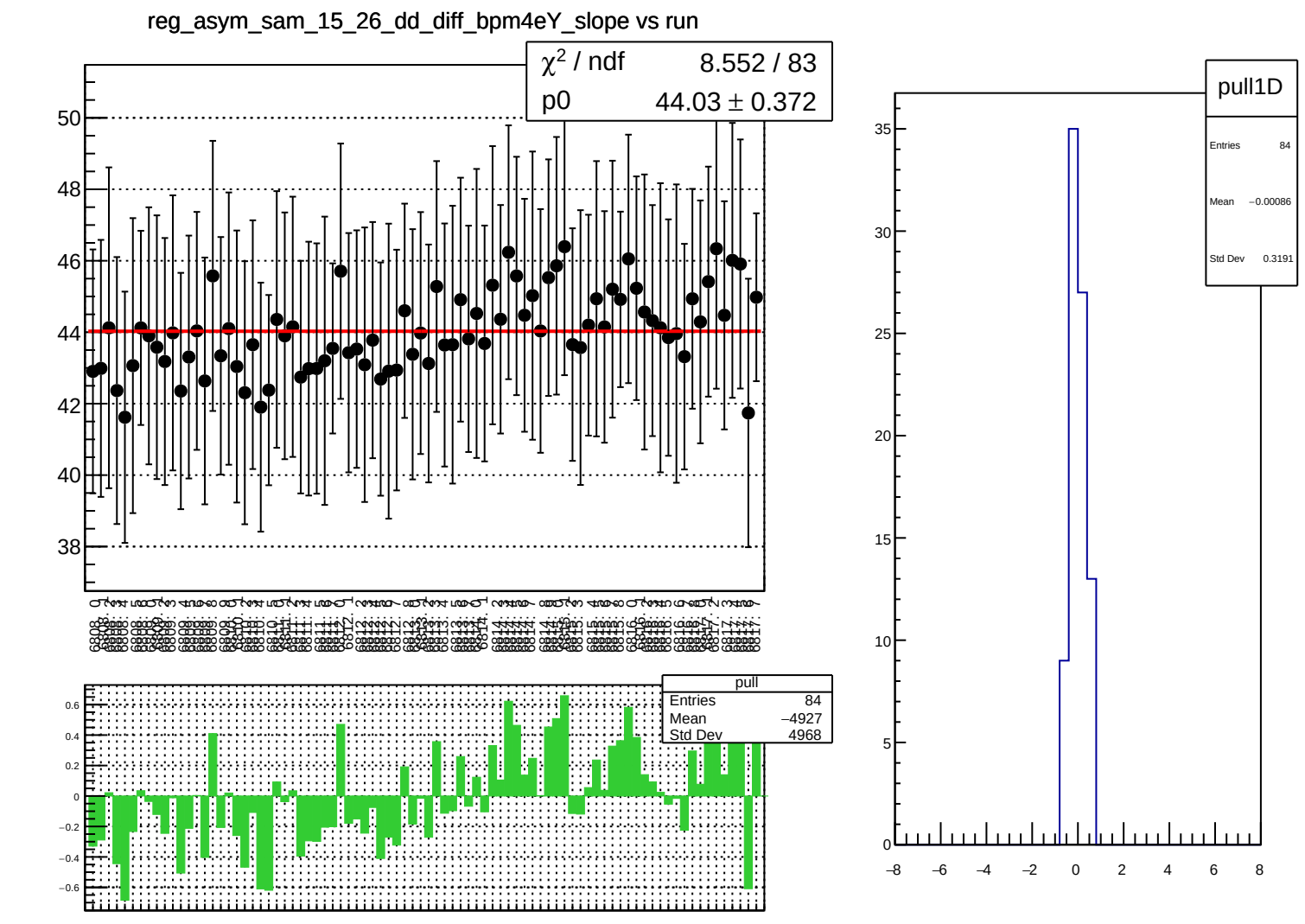

pull1D
Entries 84
Mean 0.003736
Std Dev 0.4187

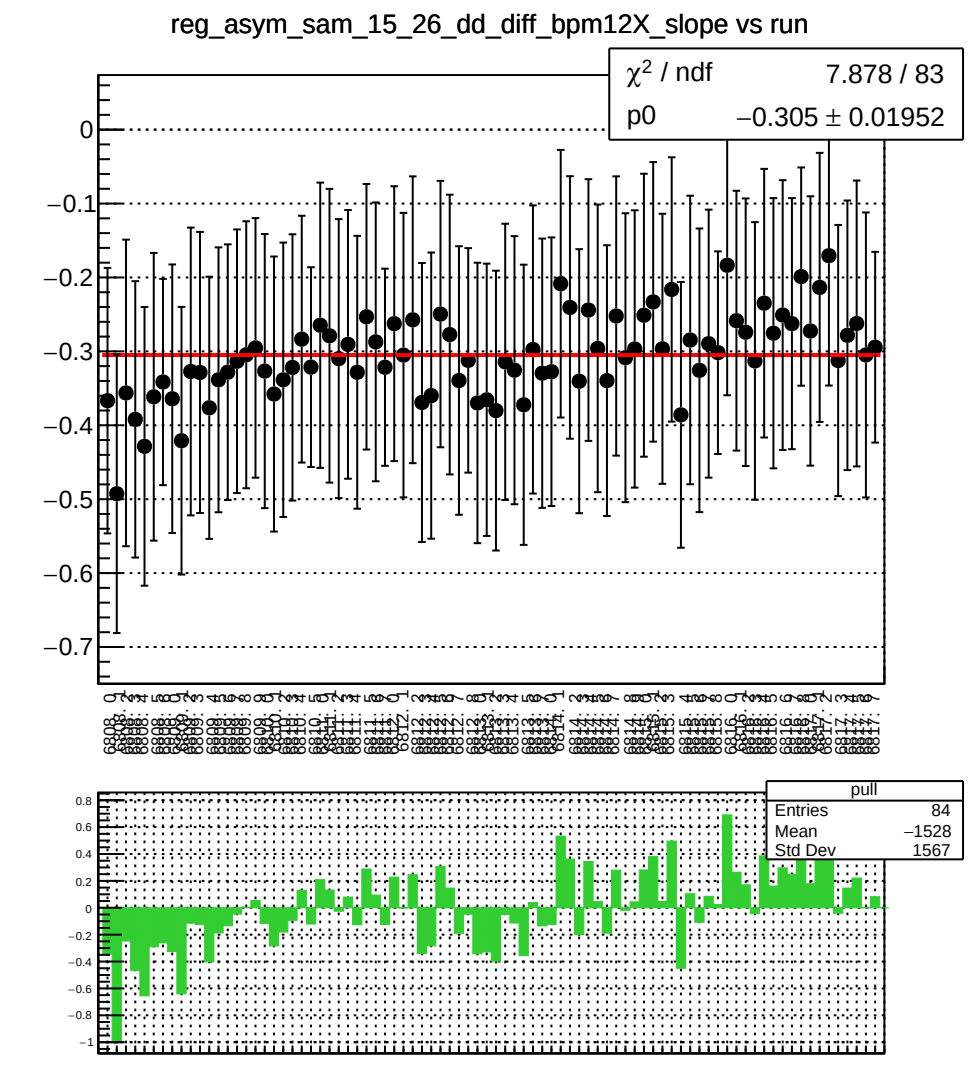

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 15.49 / 83
p0 0.253 ± 0.01376
pull
Entries 84
Mean −800.3
Std Dev 839.5
pull1D
Entries 84
Mean 0.007895
Std Dev 0.4293

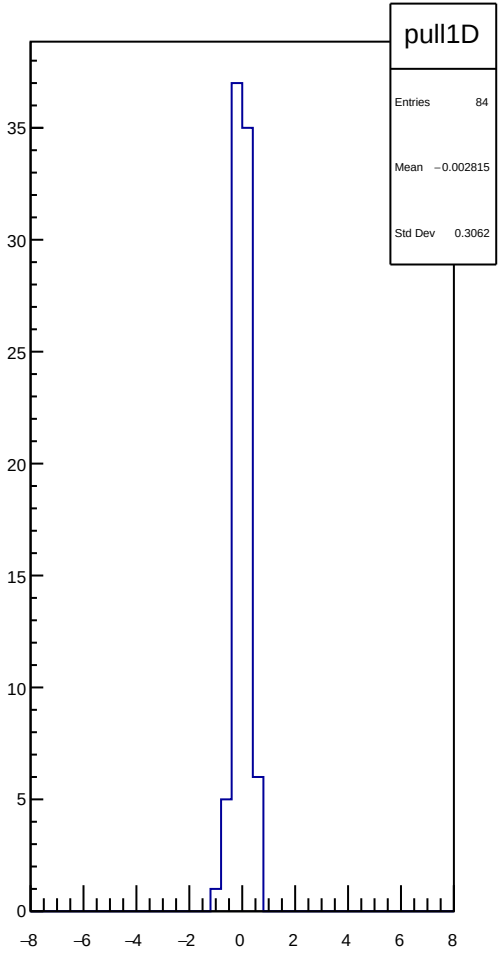

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 5.916 / 83
p0 8.998 ± 0.4806
pull
Entries 84
Mean 216.6
Std Dev 141.6
pull1D
Entries 84
Mean −0.003718
Std Dev 0.2654

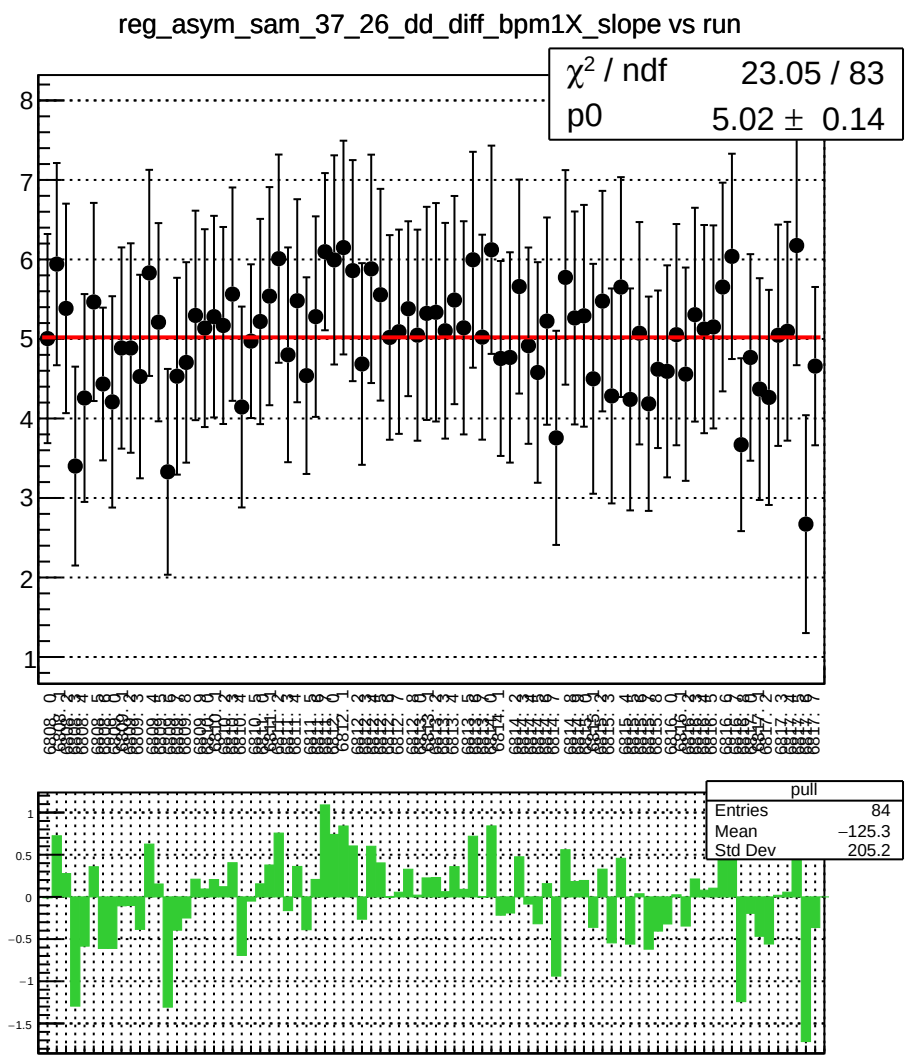

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.324 / 83
p0 −2.244 ± 0.3078
pull
Entries 84
Mean −131.2
Std Dev 172.1
pull1D
Entries 84
Mean 0.01989
Std Dev 0.3326

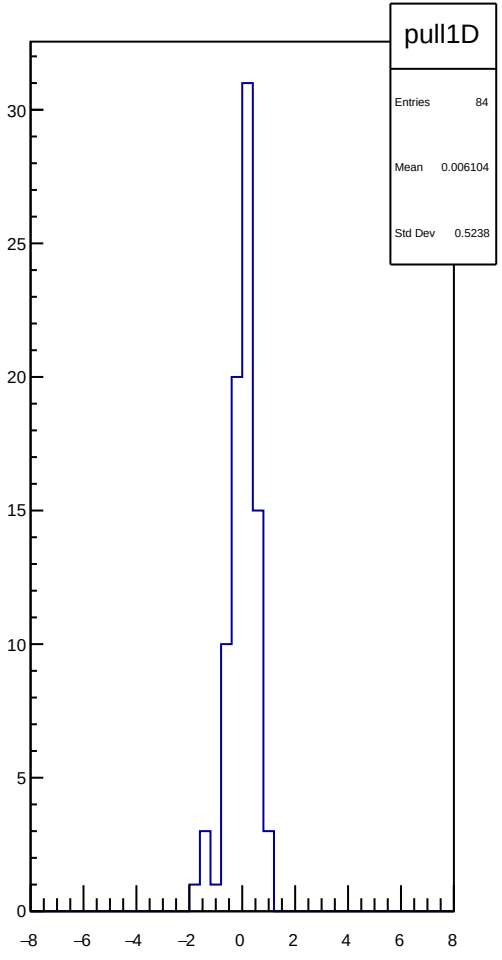

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.166 / 83
p0 23.09 ± 0.4494
pull
Entries 84
Mean 49.5
Std Dev 44.9
pull1D
Entries 84
Mean 0.01086
Std Dev 0.3302

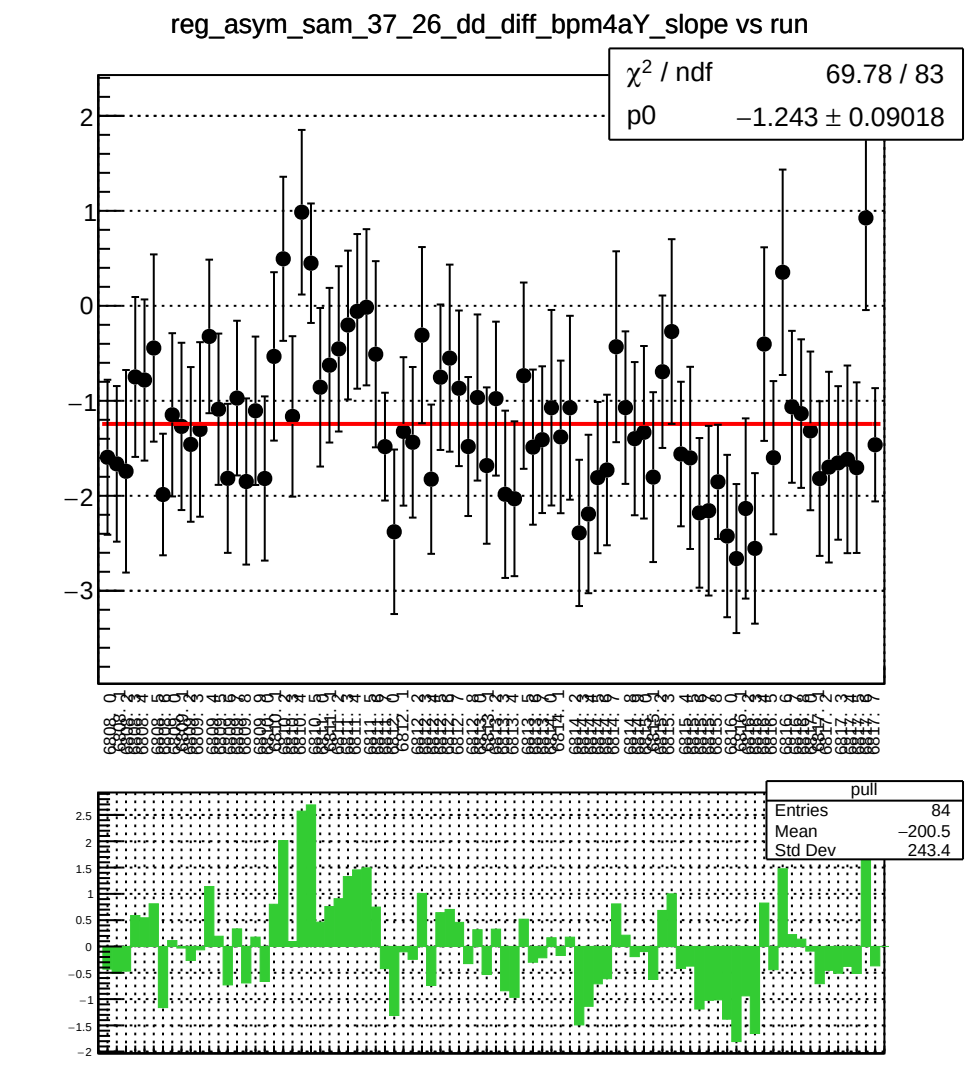

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.552 / 83
p0 44.03 ± 0.372
pull
Entries 84
Mean −4927
Std Dev 4968
pull1D
Entries 84
Mean −0.00086
Std Dev 0.3191

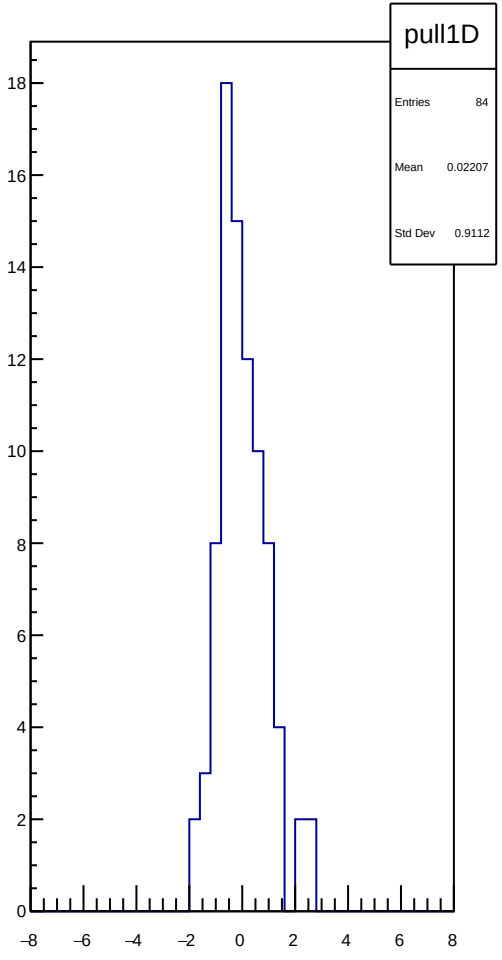

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 7.878 / 83
p0 −0.305 ± 0.01952
pull
Entries 84
Mean −1528
Std Dev 1567

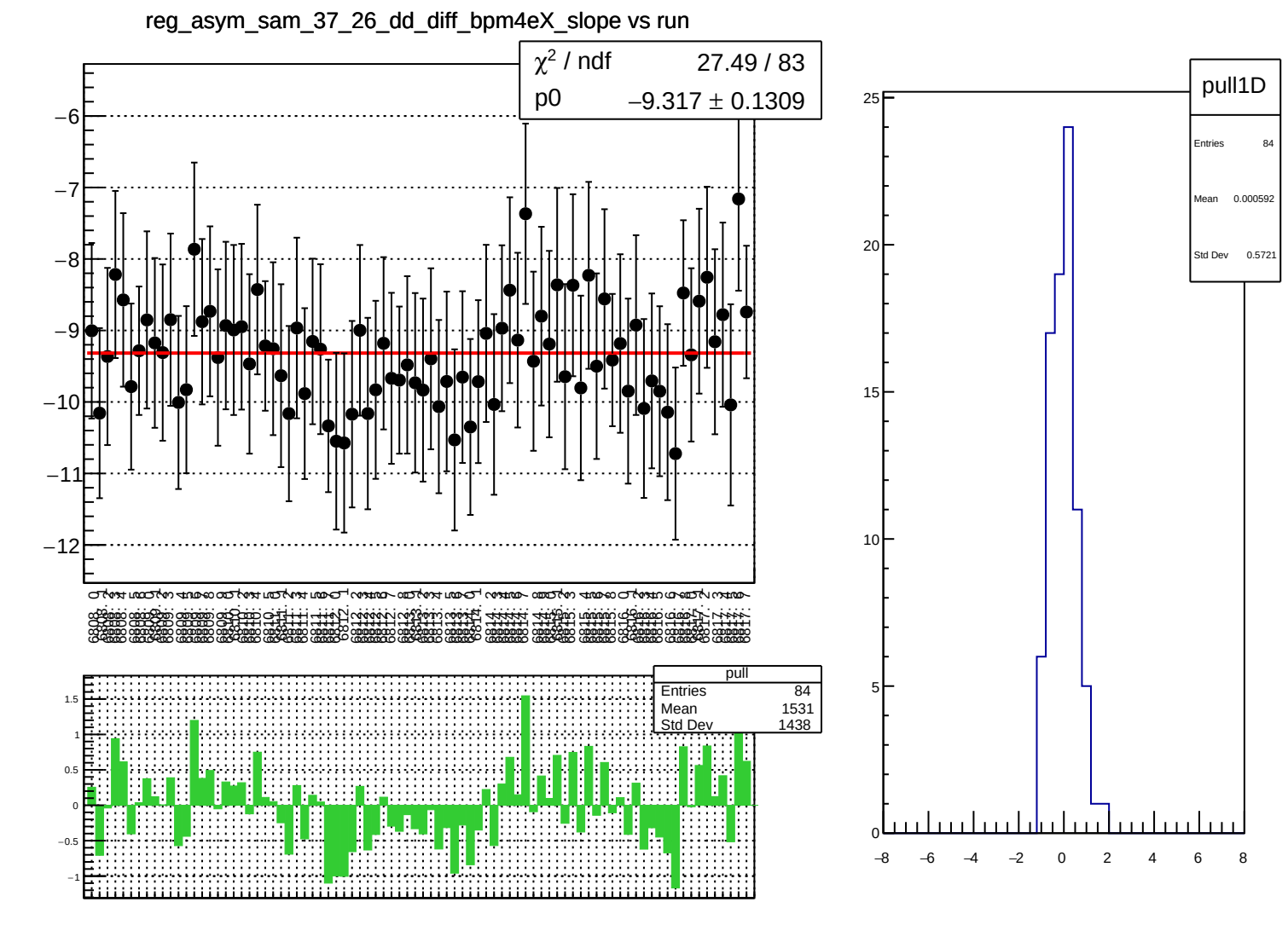

pull1D
Entries 84
Mean −0.002815
Std Dev 0.3062

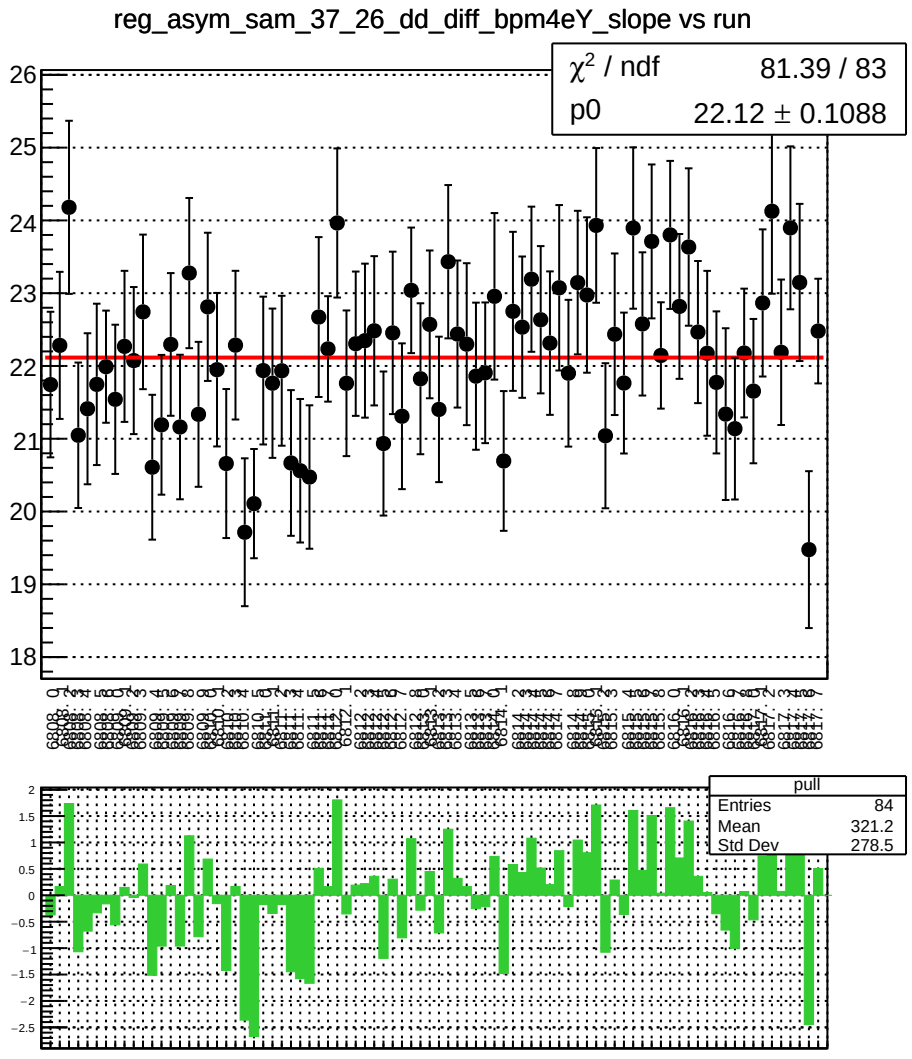

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 23.05 / 83
p0 5.02 ± 0.14
pull
Entries 84
Mean −125.3
Std Dev 205.2

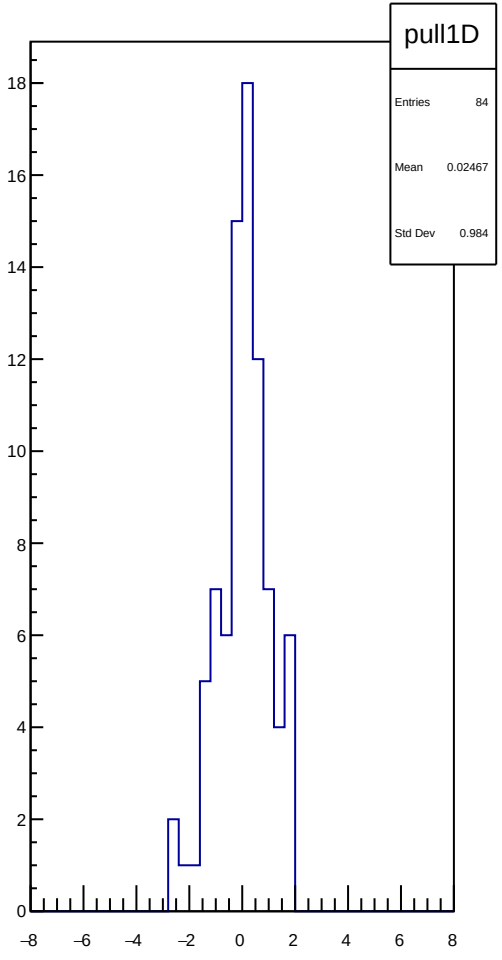

pull1D
Entries 84
Mean 0.006104
Std Dev 0.5238

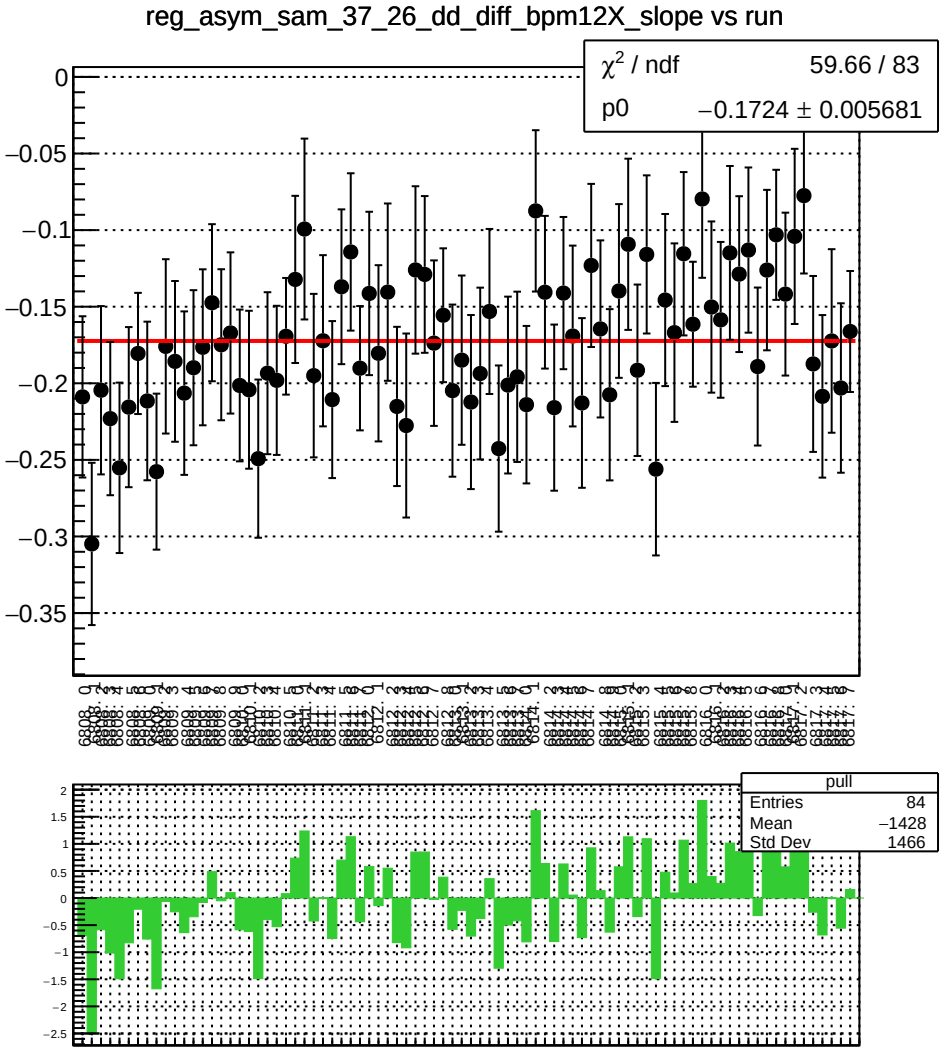

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.78 / 83
p0 −1.243 ± 0.09018
pull
Entries 84
Mean −200.5
Std Dev 243.4

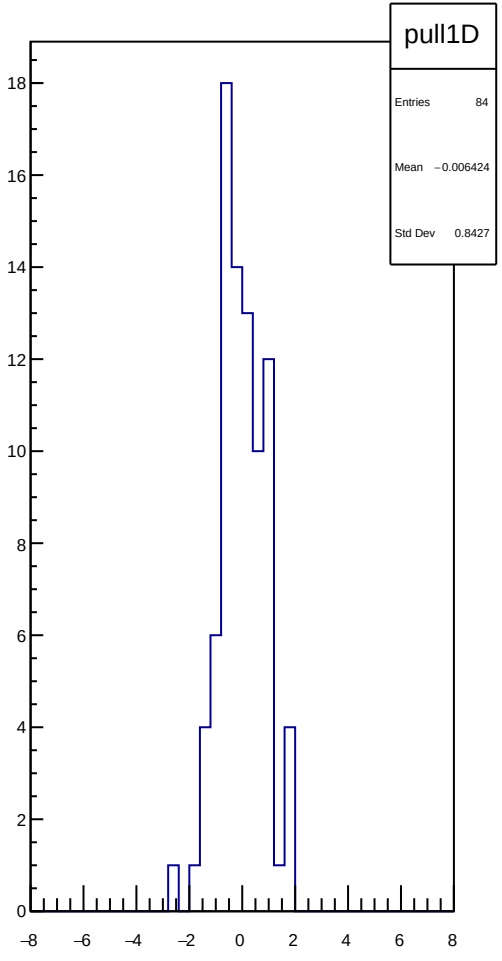

pull1D
Entries 84
Mean 0.02207
Std Dev 0.9112

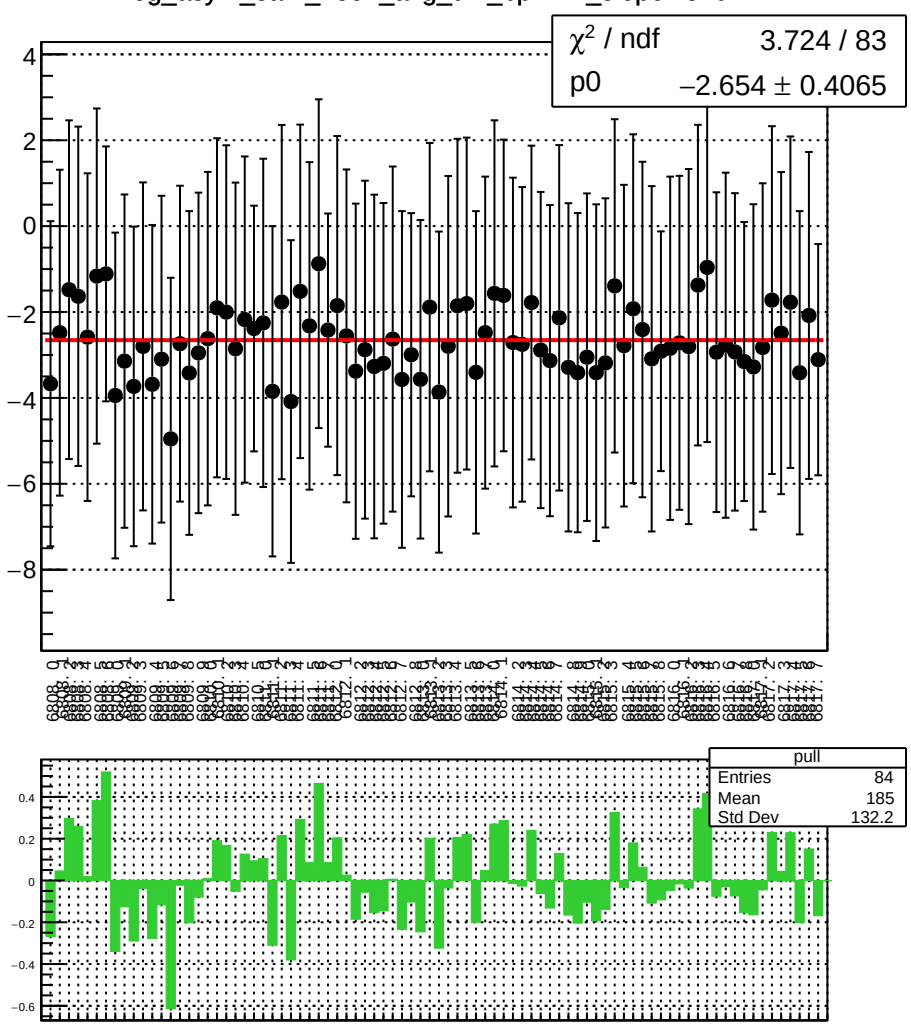

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.49 / 83
p0 −9.317 ± 0.1309
pull
Entries 84
Mean 1531
Std Dev 1438
pull1D
Entries 84
Mean 0.000592
Std Dev 0.5721

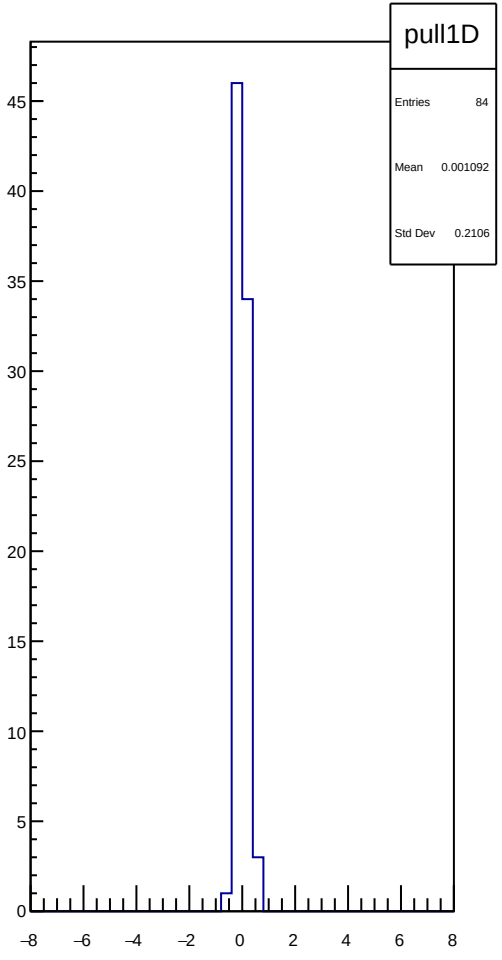

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.39 / 83
p0 22.12 ± 0.1088
pull
Entries 84
Mean 321.2
Std Dev 278.5

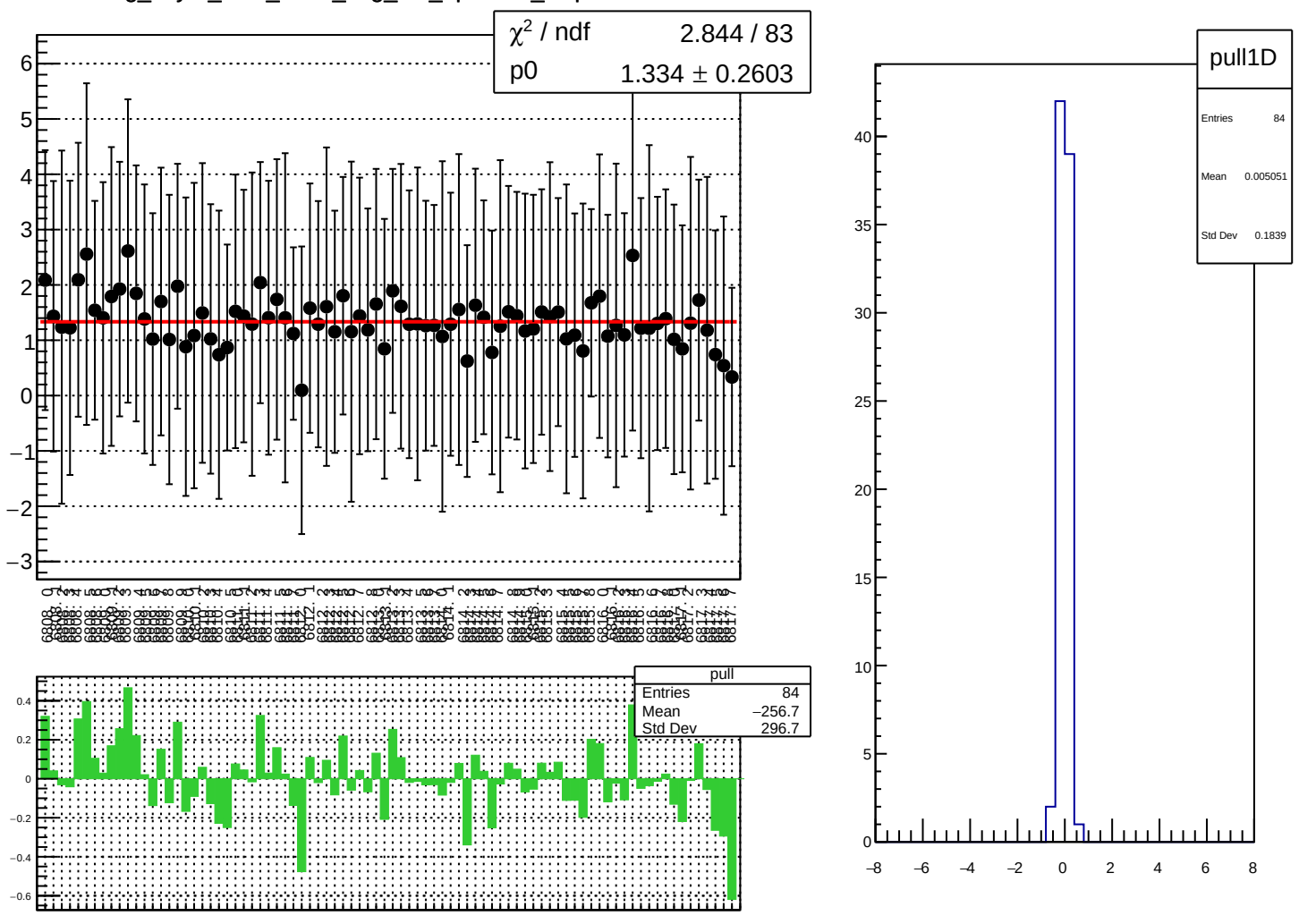

pull1D
Entries 84
Mean 0.02467
Std Dev 0.984

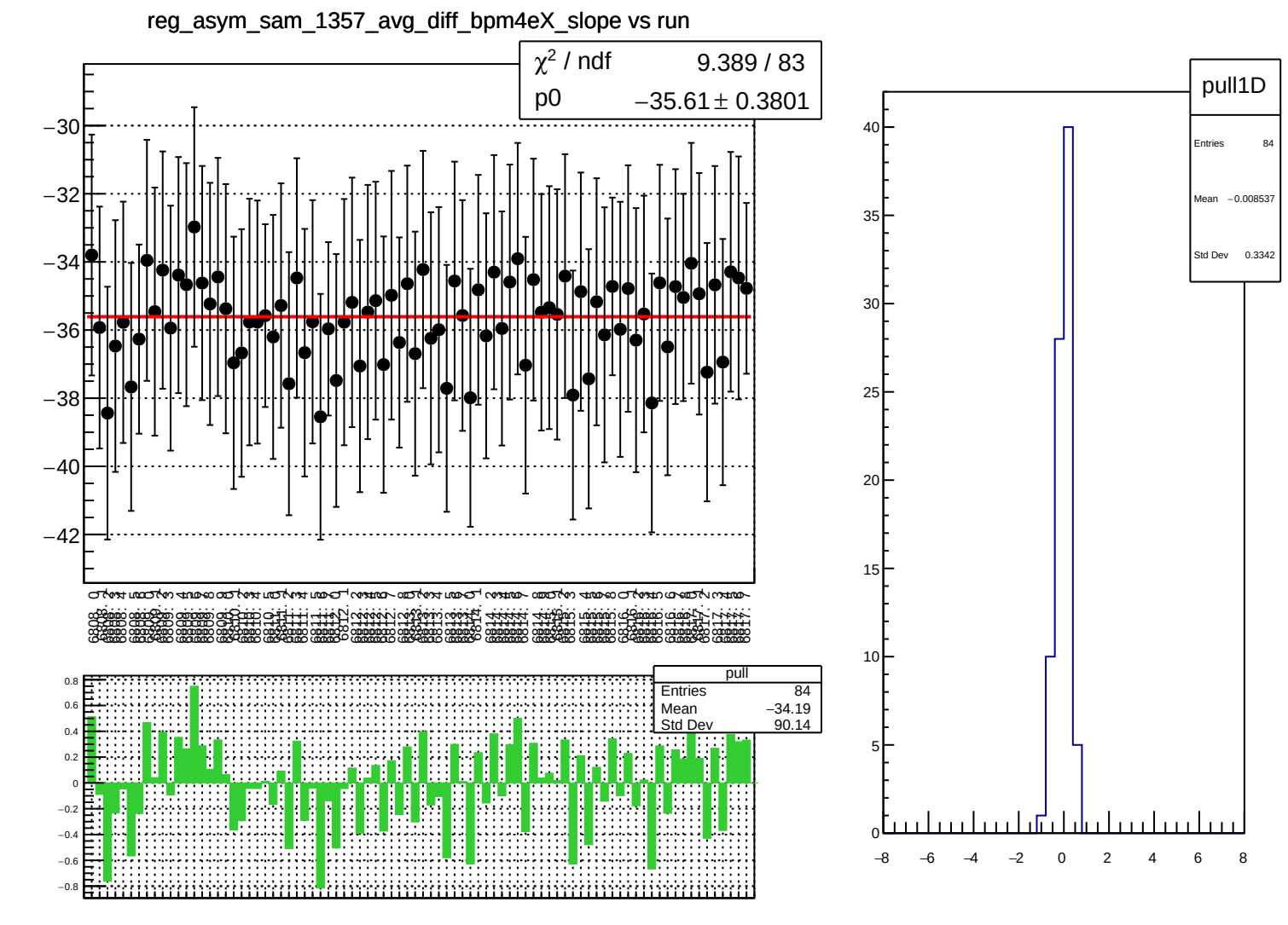

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 59.66 / 83
p0 −0.1724 ± 0.005681
pull
Entries 84
Mean −1428
Std Dev 1466

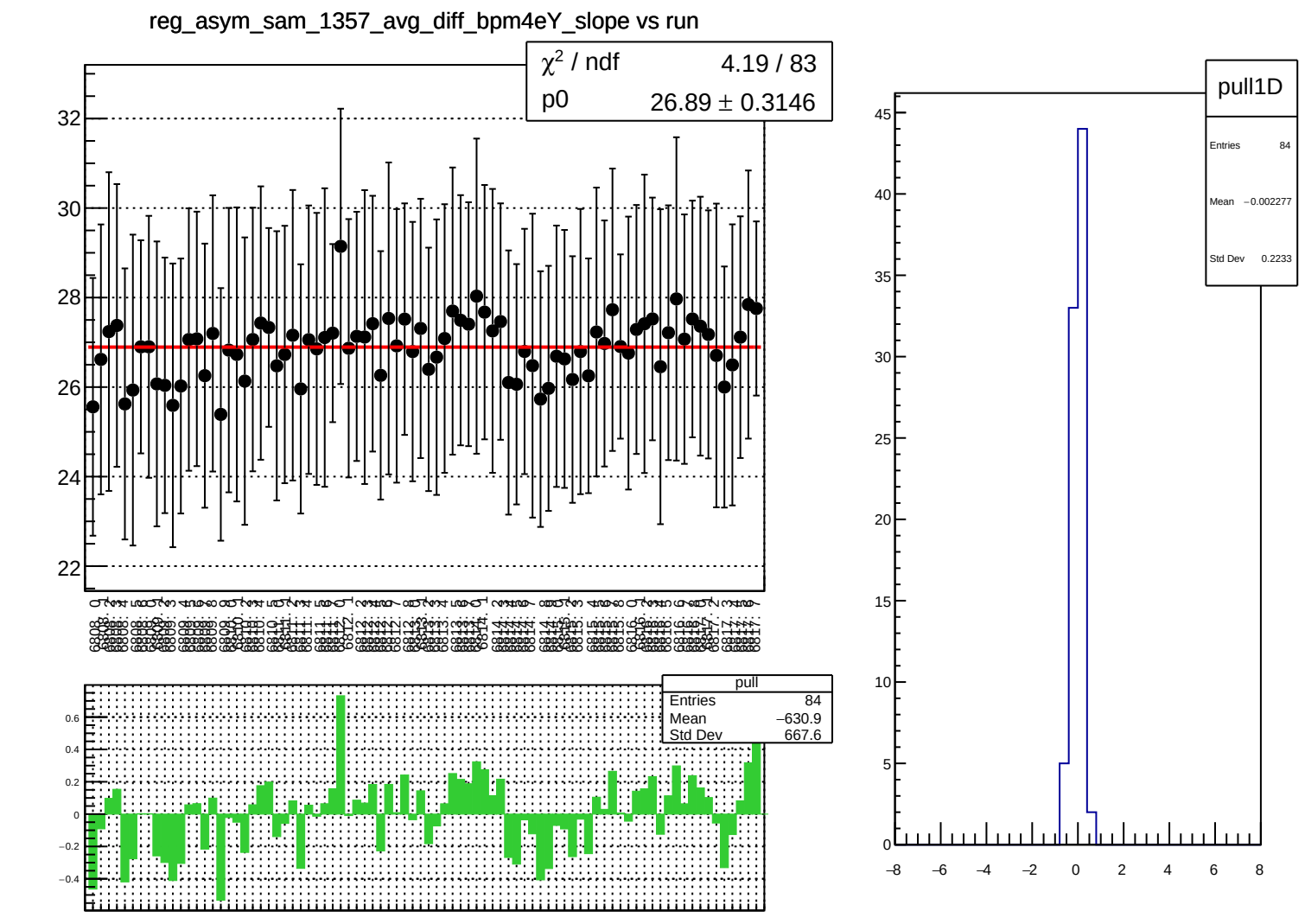

pull1D
Entries 84
Mean −0.006424
Std Dev 0.8427

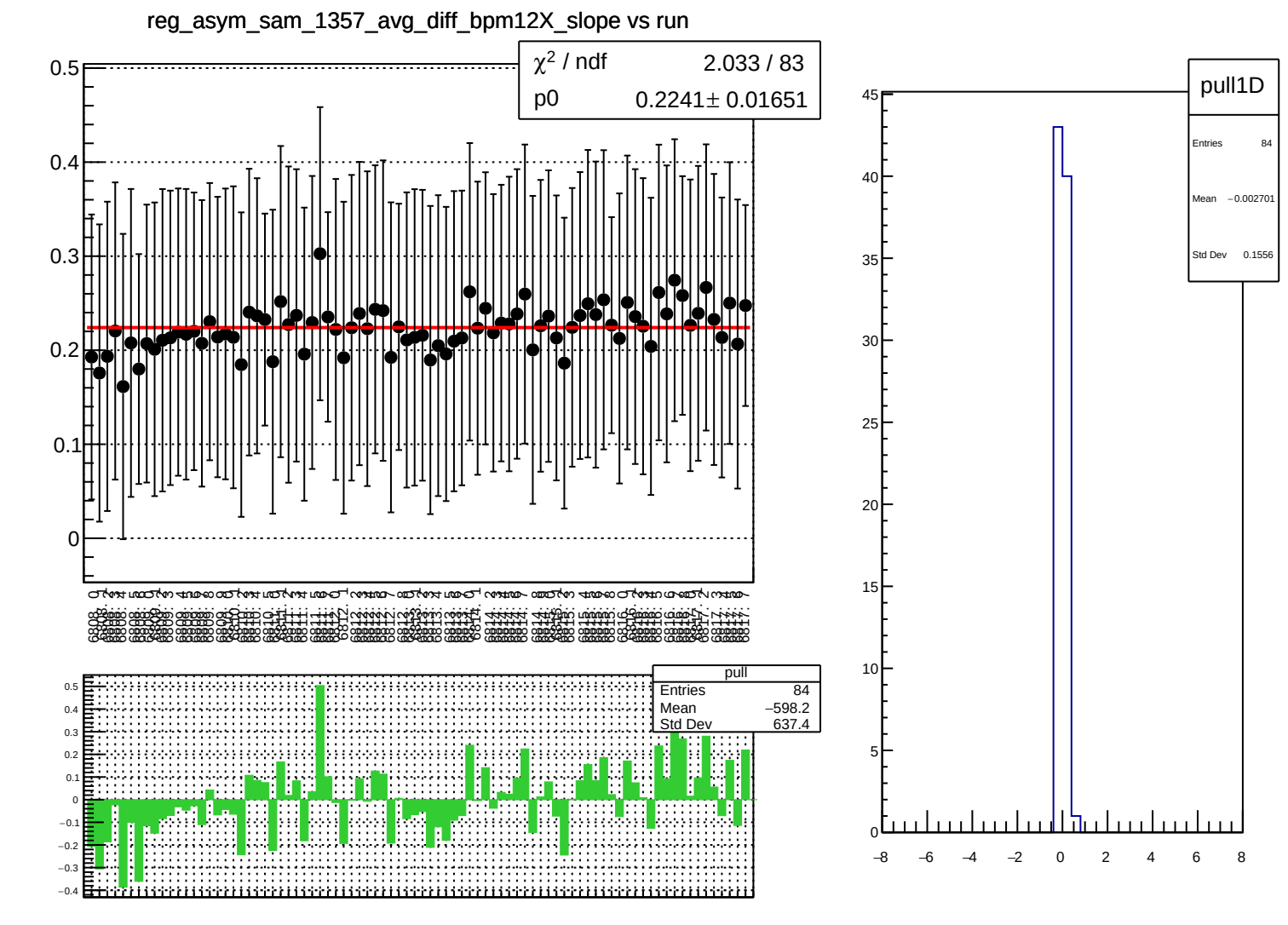

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 3.724 / 83
p0 −2.654 ± 0.4065
pull
Entries 84
Mean 185
Std Dev 132.2

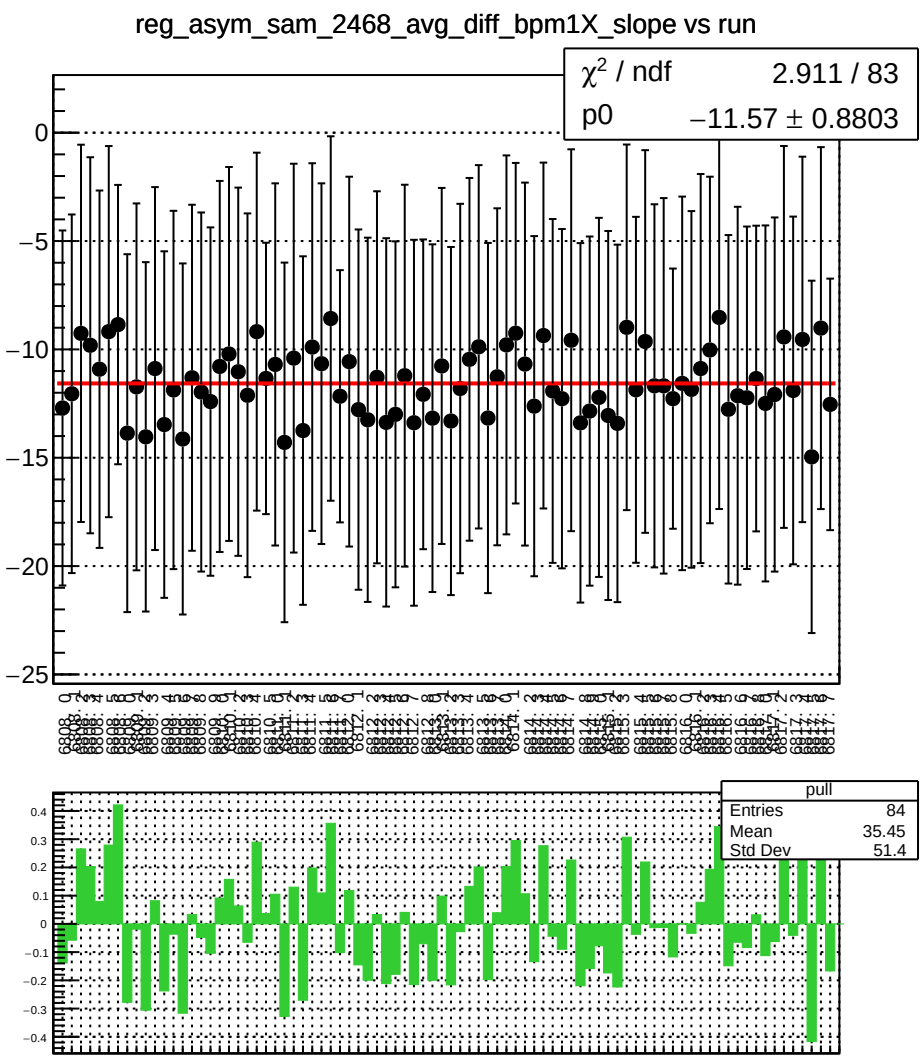

pull1D
Entries 84
Mean 0.001092
Std Dev 0.2106

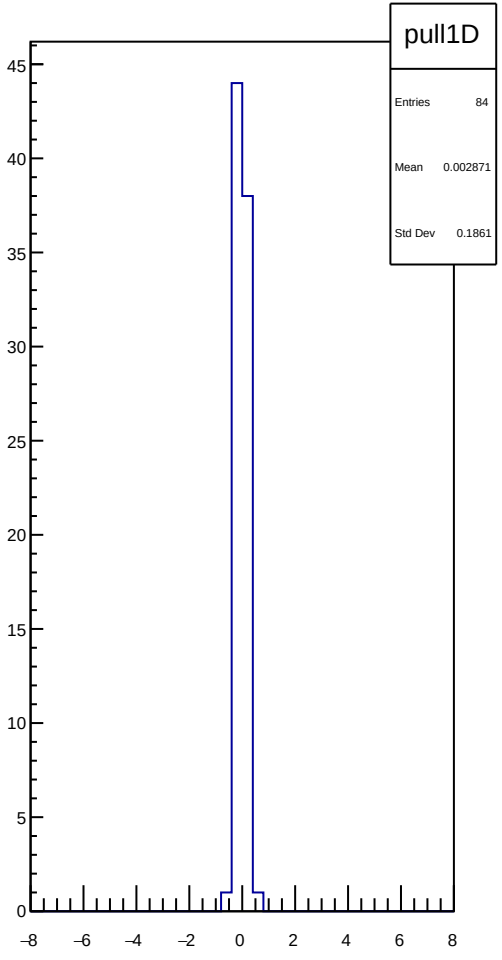

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.844 / 83
p0 1.334 ± 0.2603
pull
Entries 84
Mean −256.7
Std Dev 296.7
pull1D
Entries 84
Mean 0.005051
Std Dev 0.1839

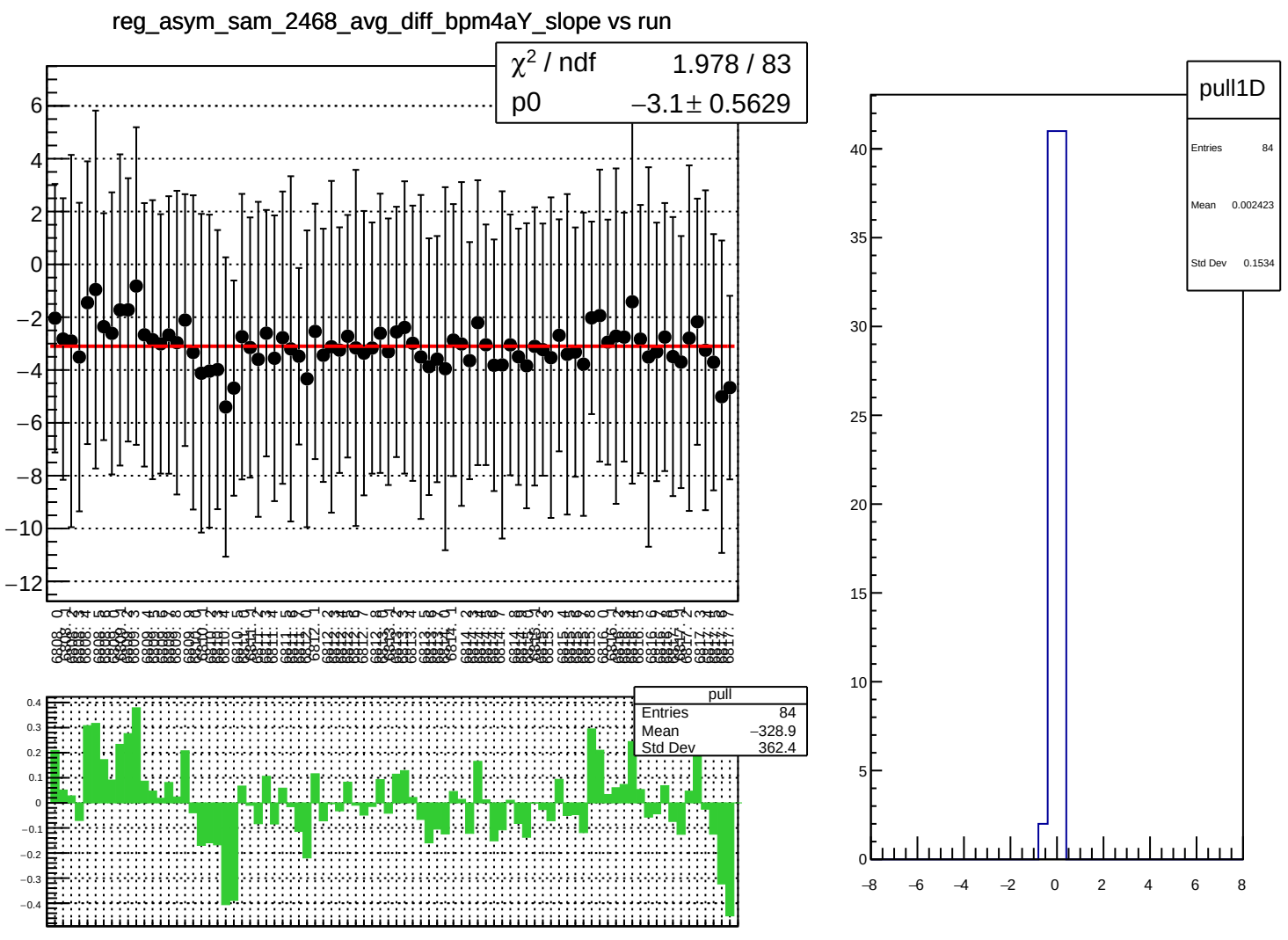

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.389 / 83
p0 −35.61 ± 0.3801
pull
Entries 84
Mean −34.19
Std Dev 90.14
pull1D
Entries 84
Mean −0.008537
Std Dev 0.3342

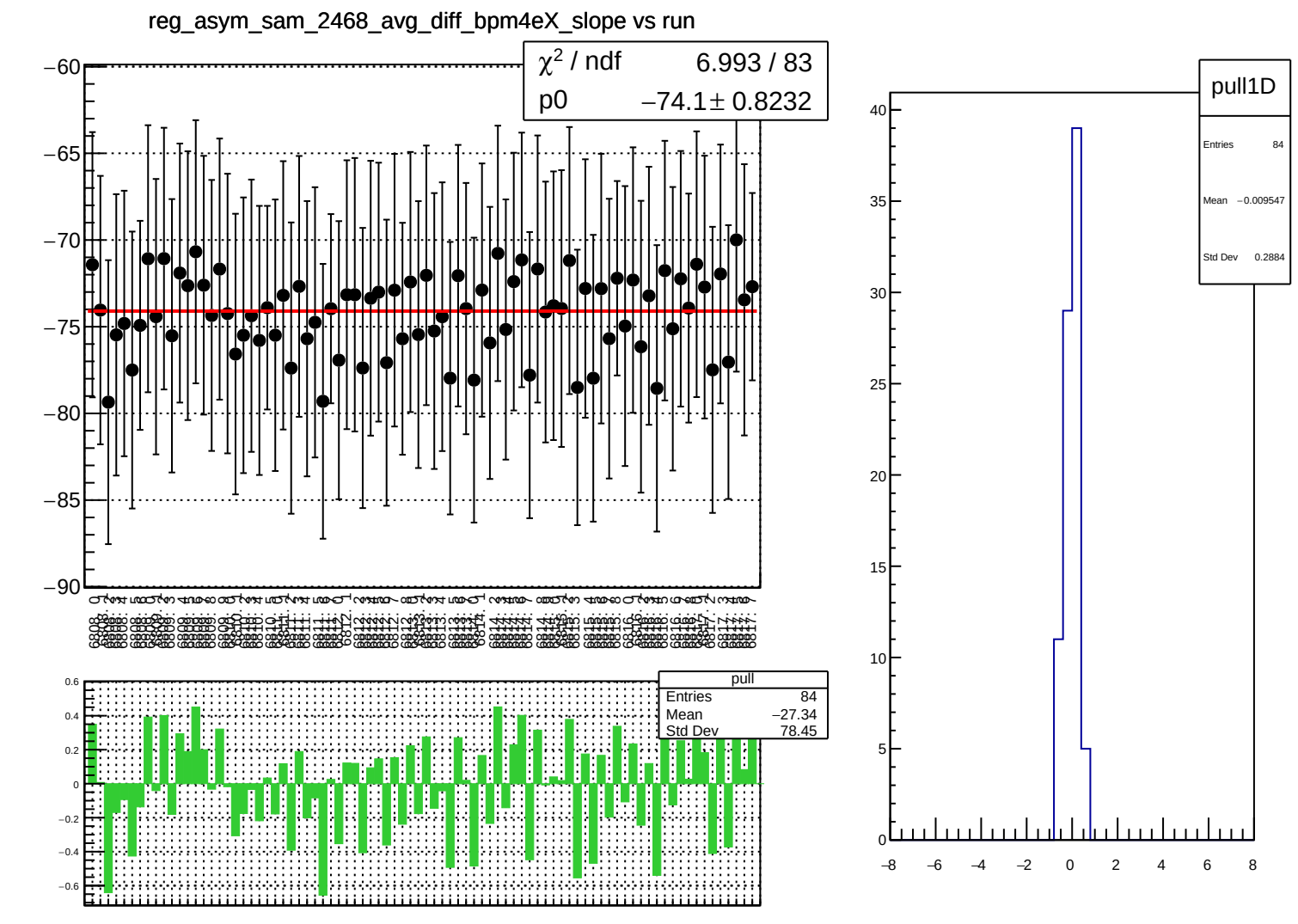

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.19 / 83
p0 26.89 ± 0.3146
pull
Entries 84
Mean −630.9
Std Dev 667.6
pull1D
Entries 84
Mean −0.002277
Std Dev 0.2233

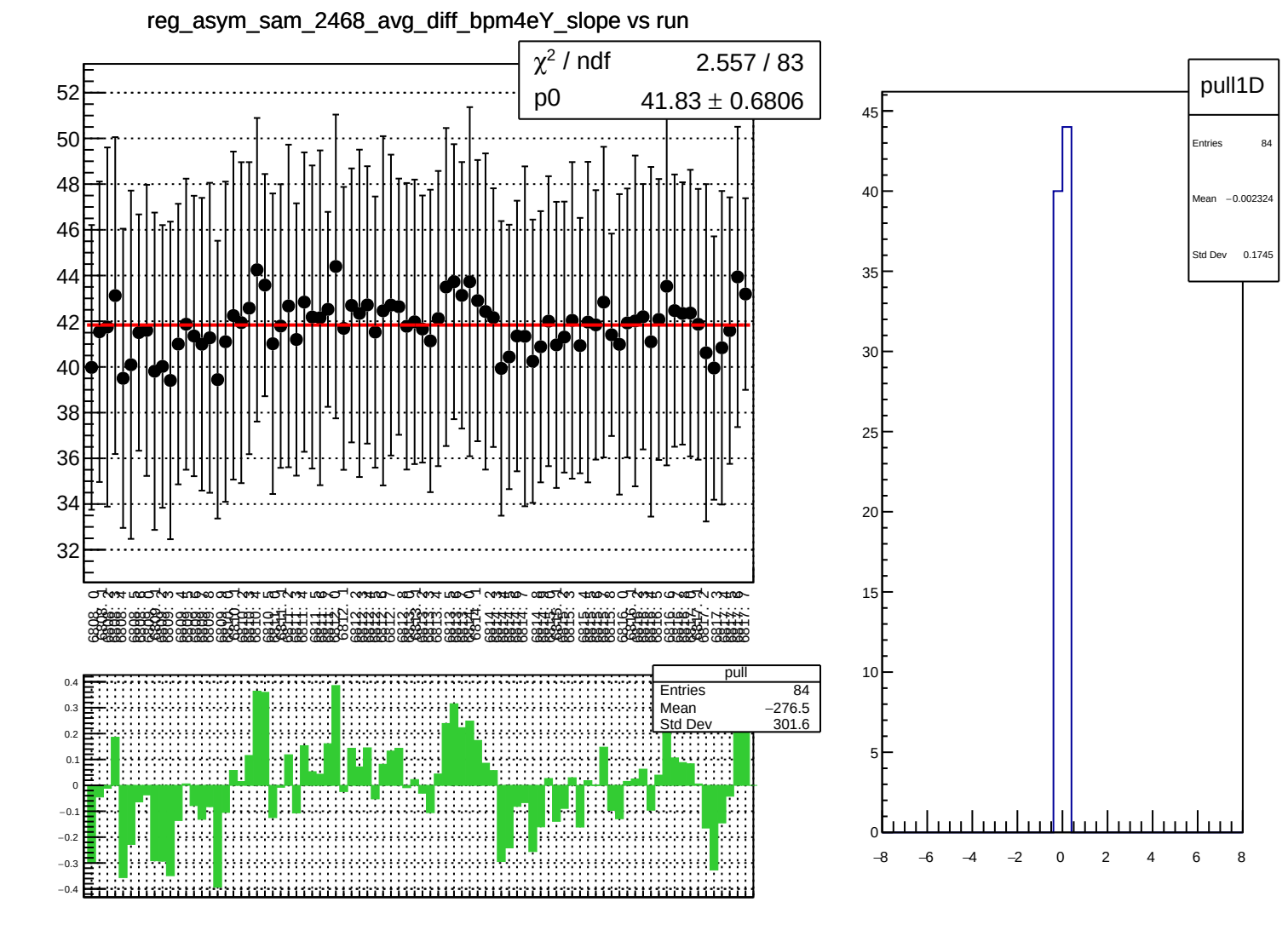

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 2.033 / 83
p0 0.2241± 0.01651
pull
Entries 84
Mean −598.2
Std Dev 637.4
pull1D
Entries 84
Mean −0.002701
Std Dev 0.1556

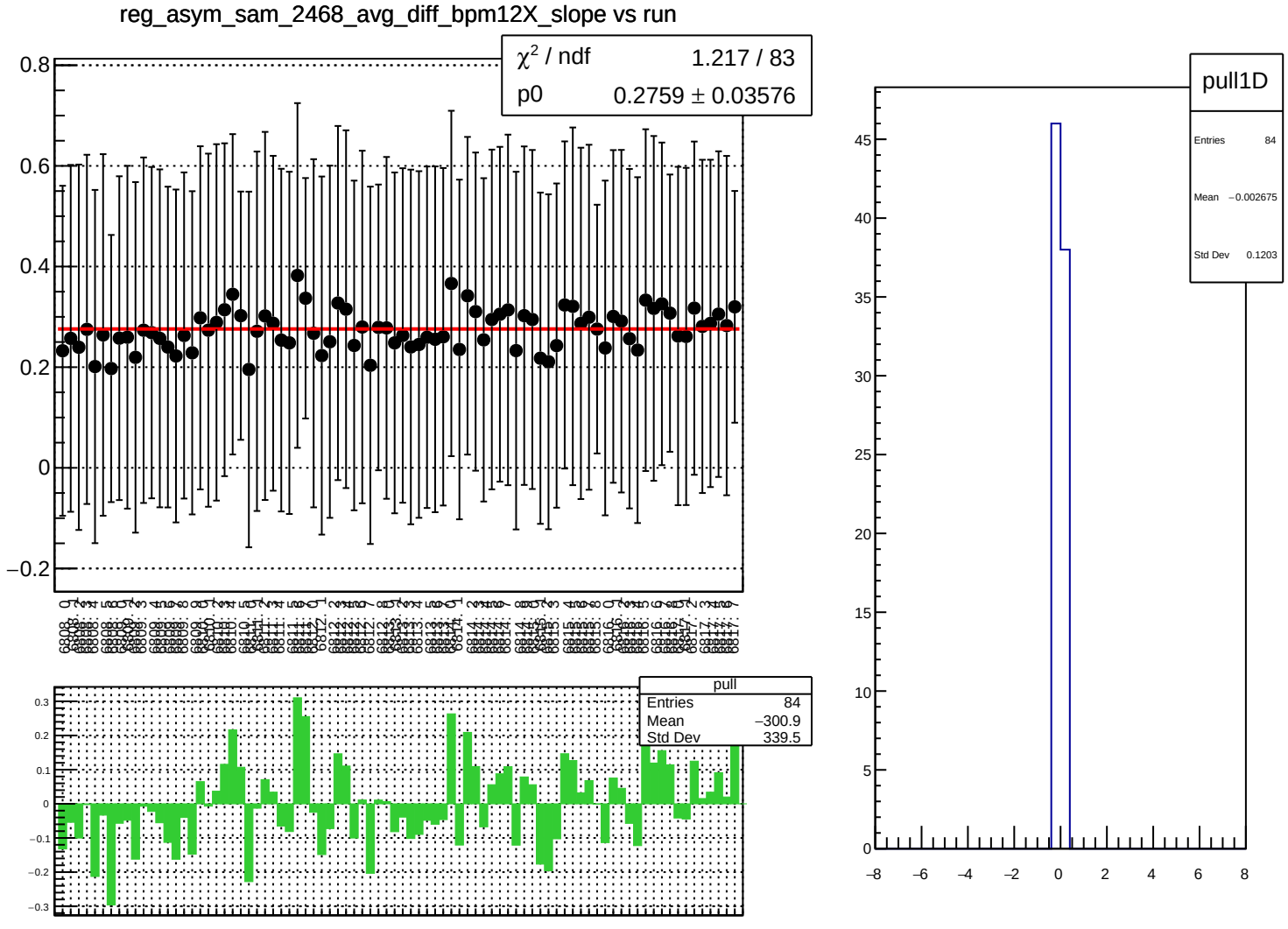

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 2.911 / 83
p0 −11.57 ± 0.8803
pull
Entries 84
Mean 35.45
Std Dev 51.4


pull1D
Entries 84
Mean 0.002871
Std Dev 0.1861

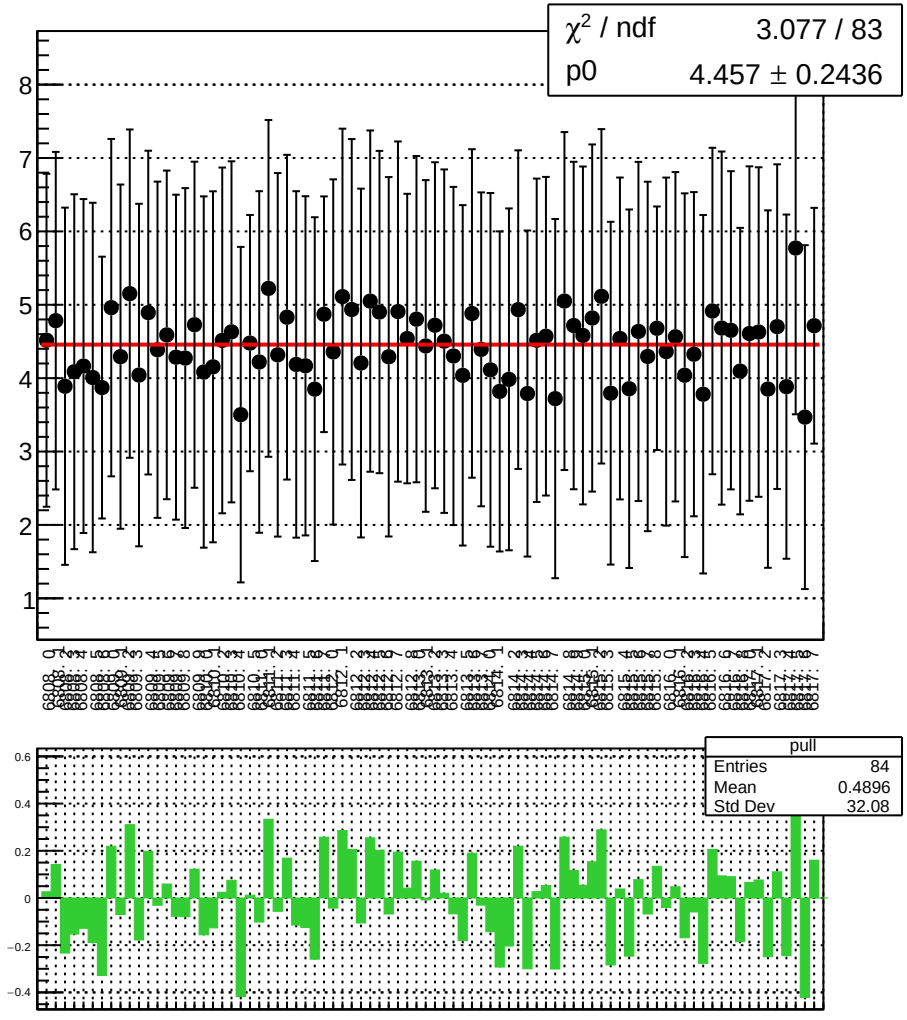

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.978 / 83
p0 −3.1 ± 0.5629
pull
Entries 84
Mean −328.9
Std Dev 362.4
pull1D
Entries 84
Mean 0.002423
Std Dev 0.1534

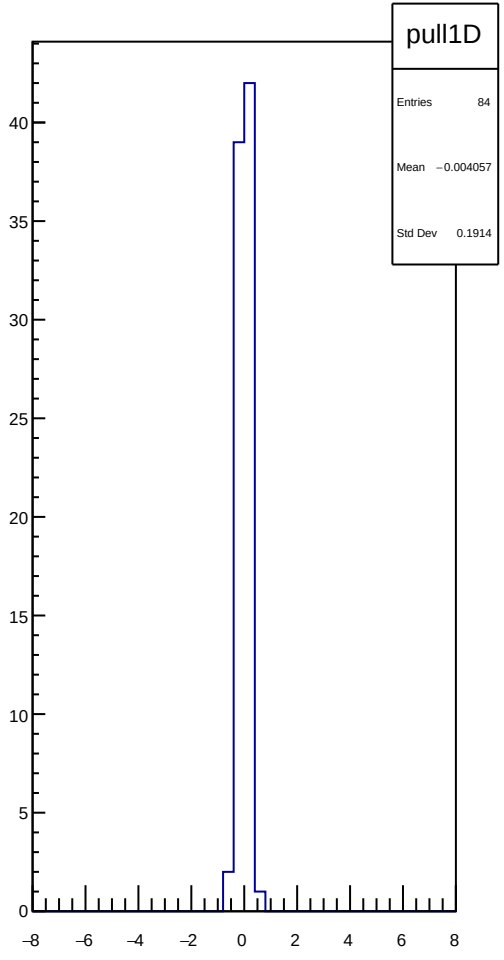

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.993 / 83
p0 −74.1 ± 0.8232
pull
Entries 84
Mean −27.34
Std Dev 78.45
pull1D
Entries 84
Mean −0.009547
Std Dev 0.2884

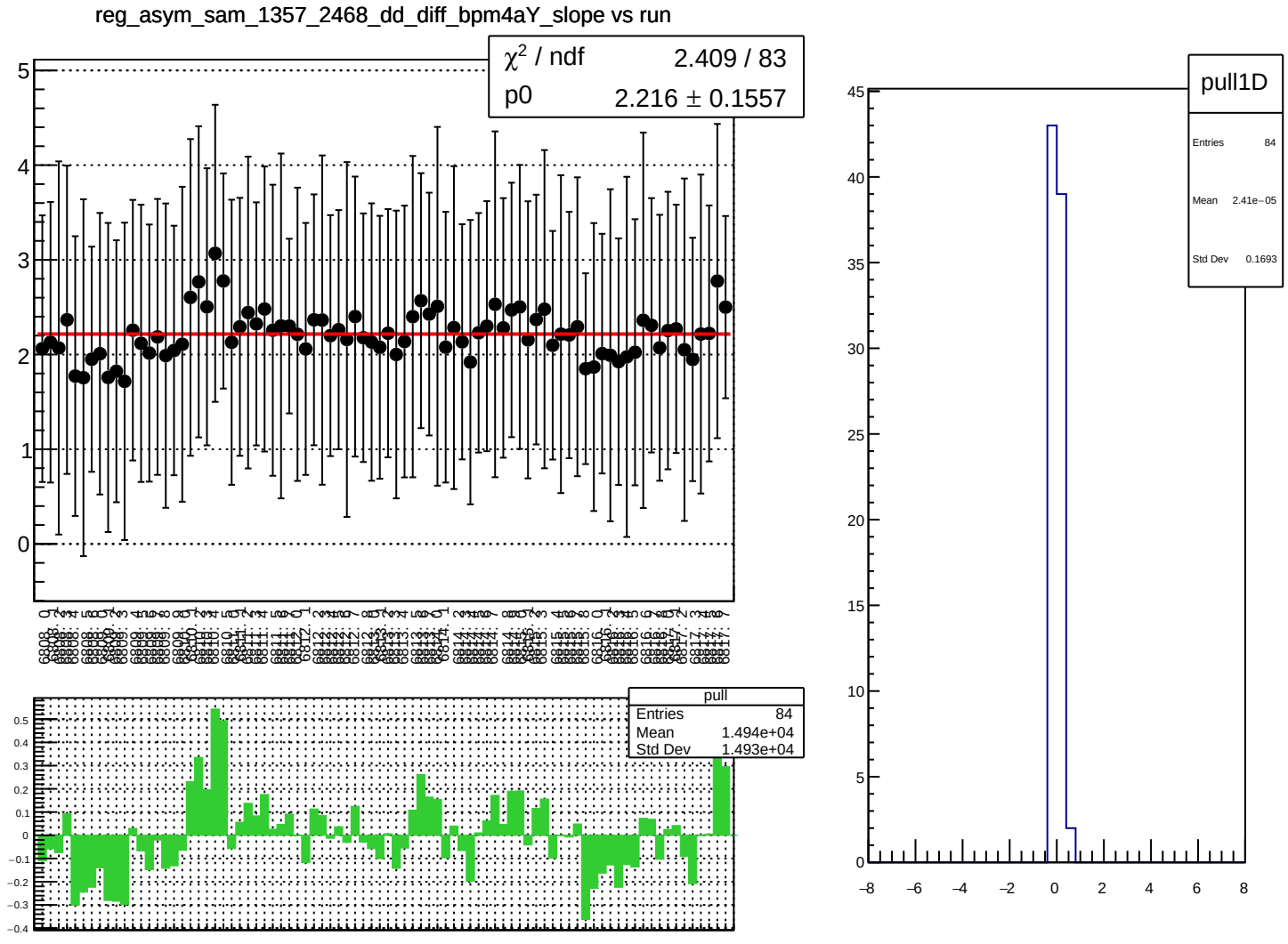

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.557 / 83
p0 41.83 ± 0.6806
pull
Entries 84
Mean −276.5
Std Dev 301.6
pull1D
Entries 84
Mean −0.002324
Std Dev 0.1745

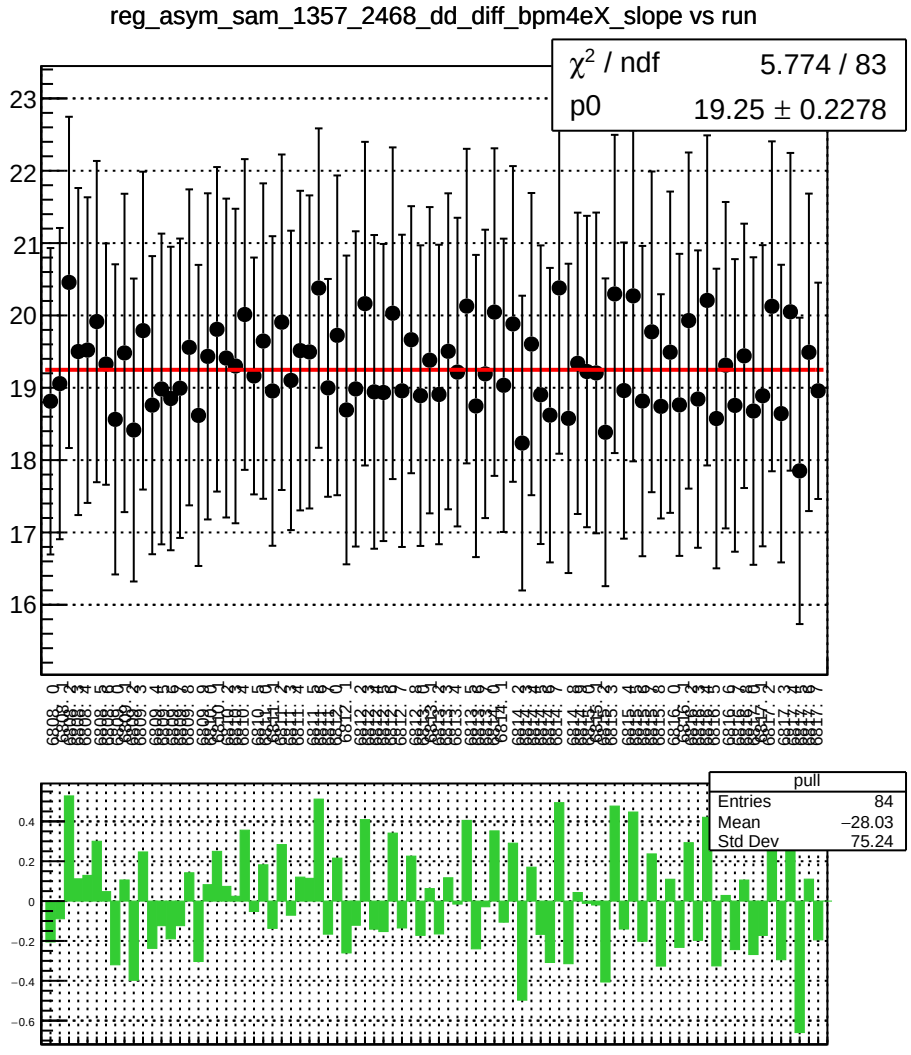

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1.217 / 83
p0 0.2759 ± 0.03576
pull
Entries 84
Mean −300.9
Std Dev 339.5
pull1D
Entries 84
Mean −0.002675
Std Dev 0.1203

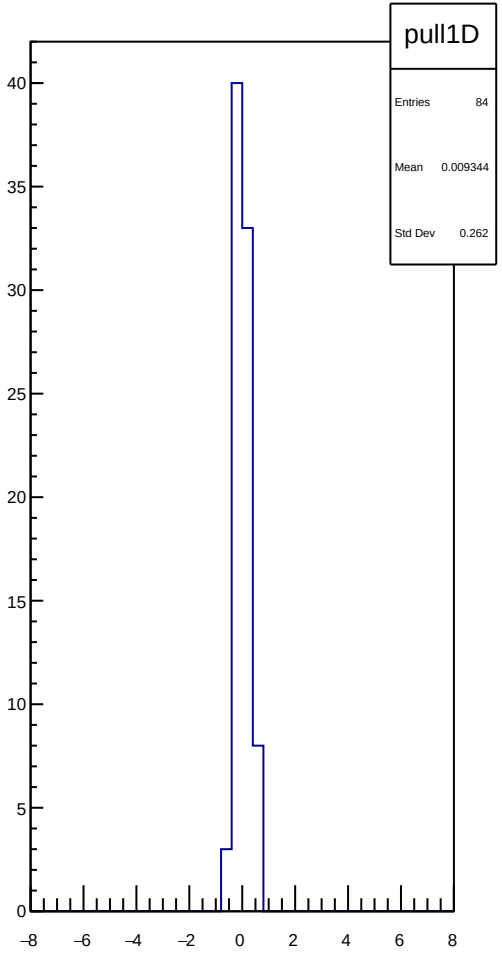
reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run

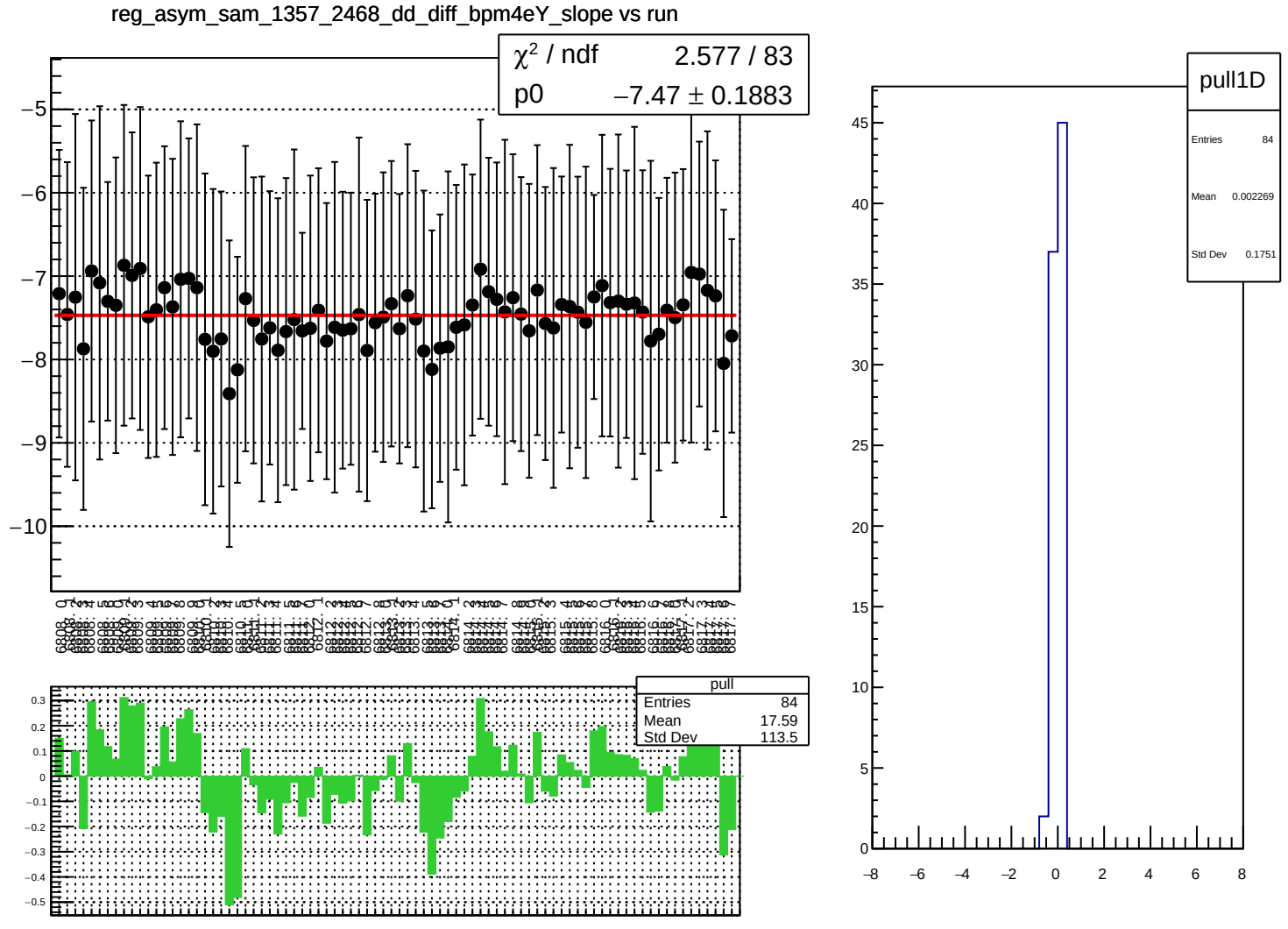


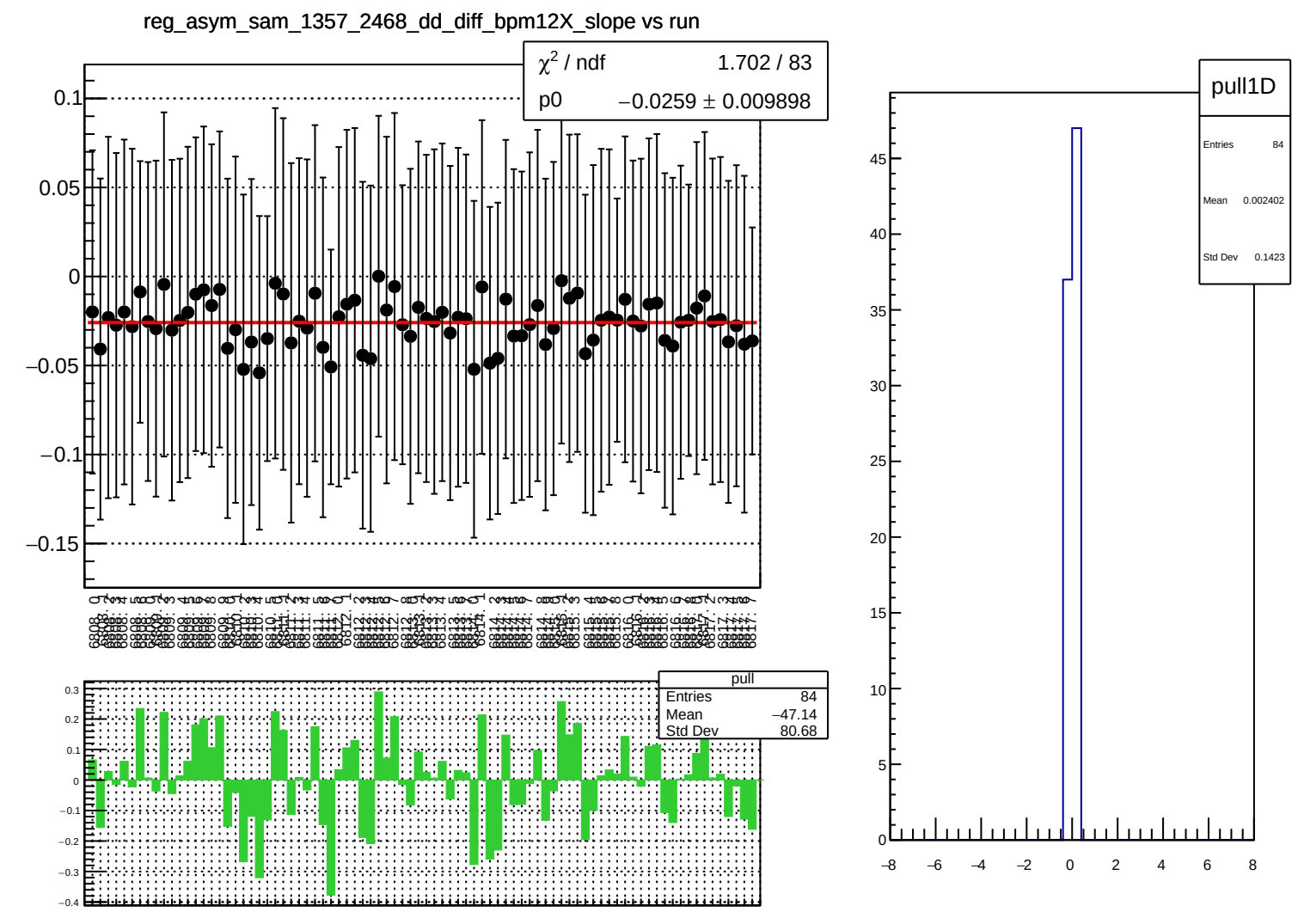


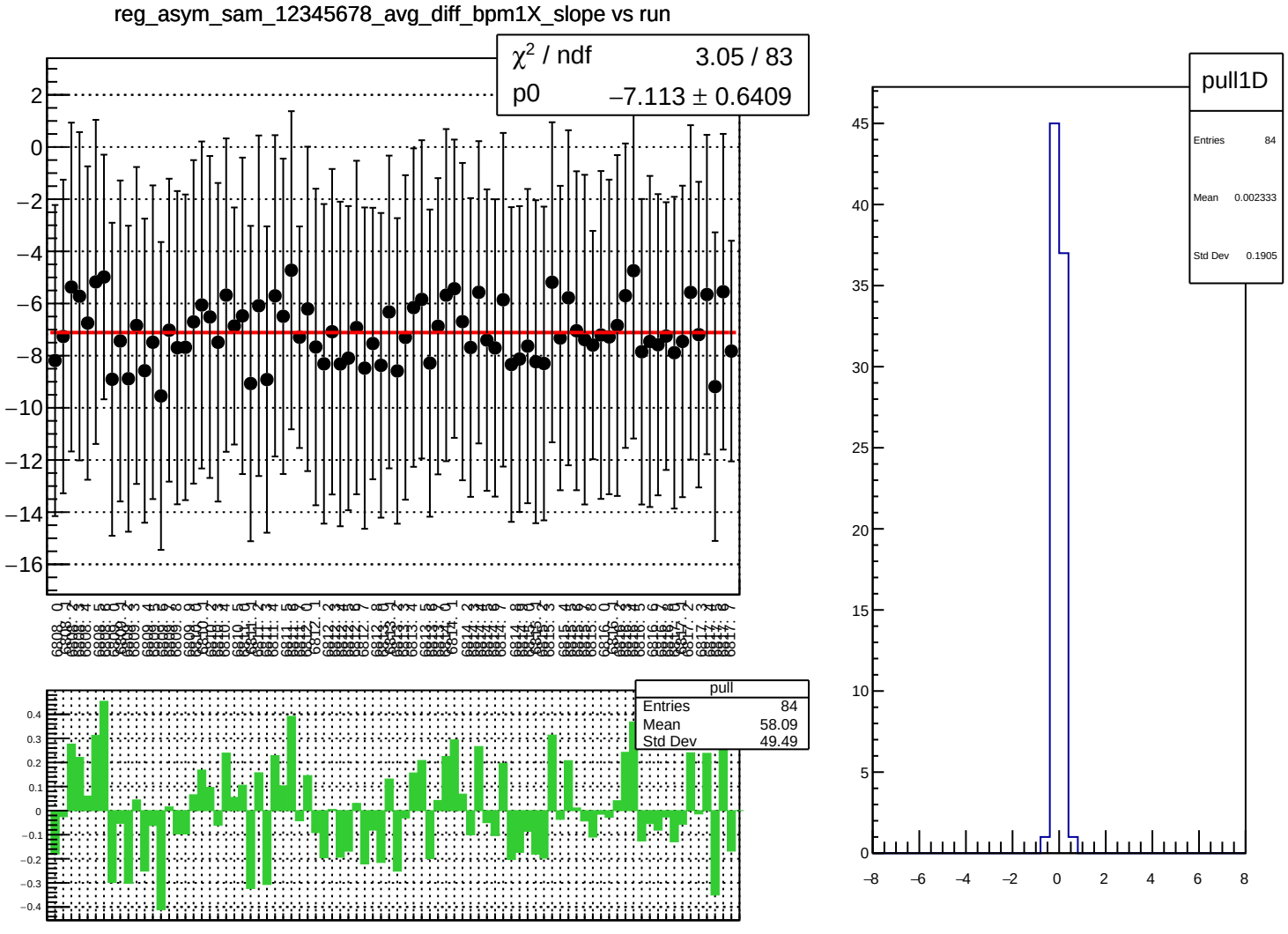

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.409 / 83
p0 2.216 ± 0.1557
pull
Entries 84
Mean 1.494e+04
Std Dev 1.493e+04
pull1D
Entries 84
Mean 2.41e−05
Std Dev 0.1693

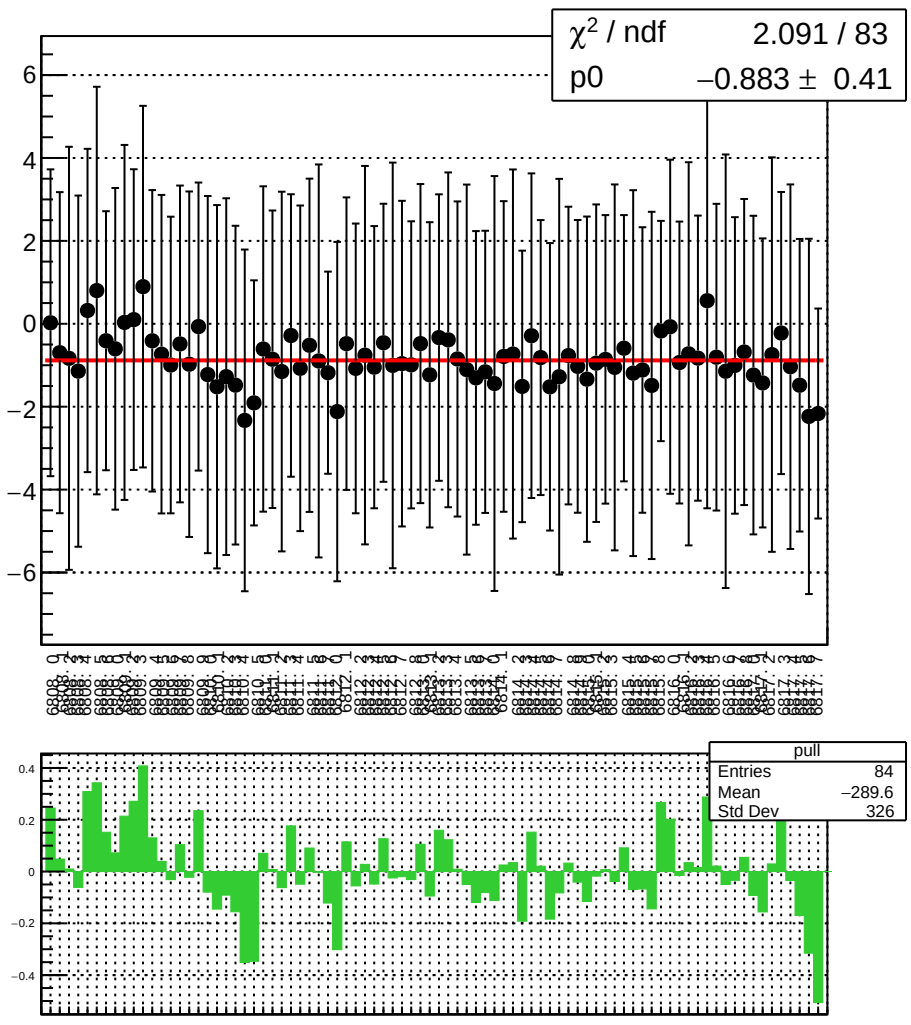

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.774 / 83
p0 19.25 ± 0.2278
pull
Entries 84
Mean −28.03
Std Dev 75.24

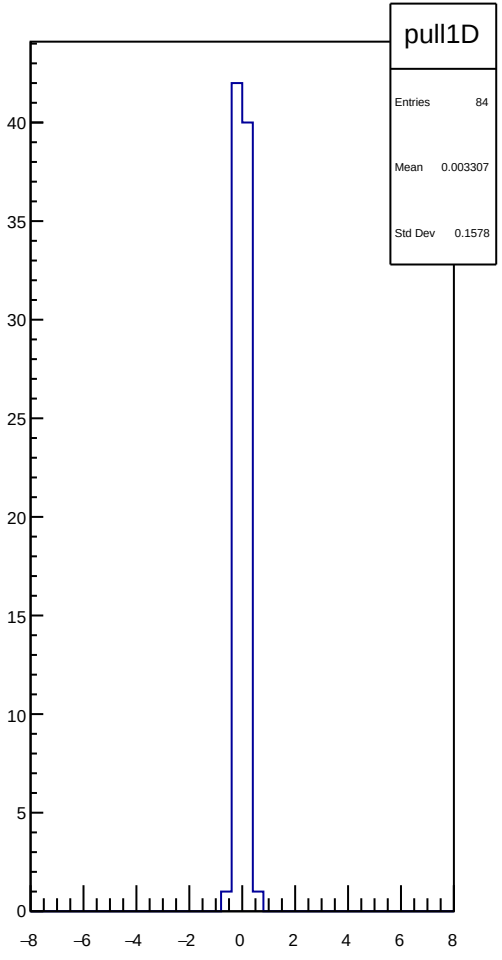

pull1D
Entries 84
Mean 0.009344
Std Dev 0.262

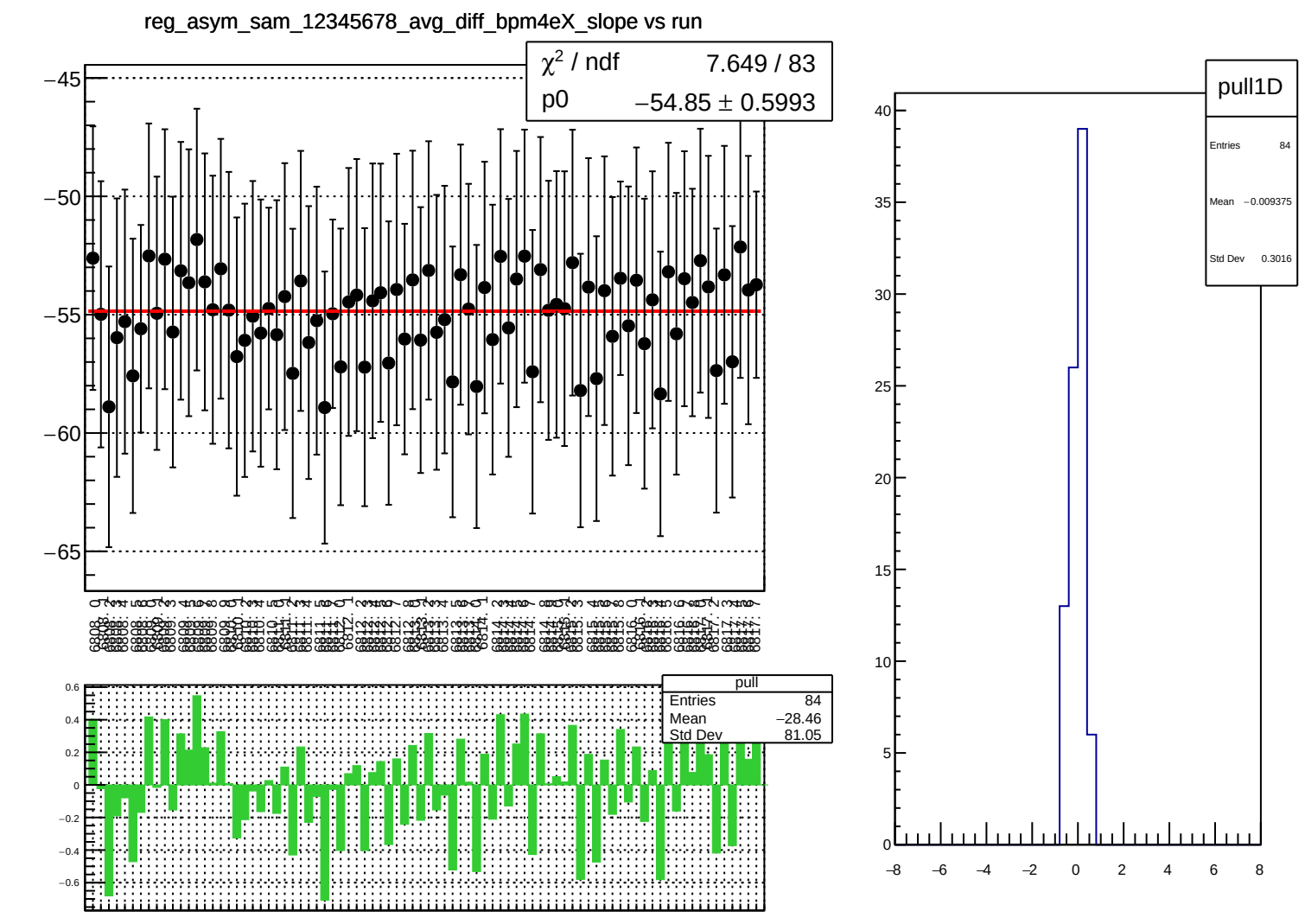

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.577 / 83
p0 −7.47 ± 0.1883
pull
Entries 84
Mean 17.59
Std Dev 113.5
pull1D
Entries 84
Mean 0.002269
Std Dev 0.1751

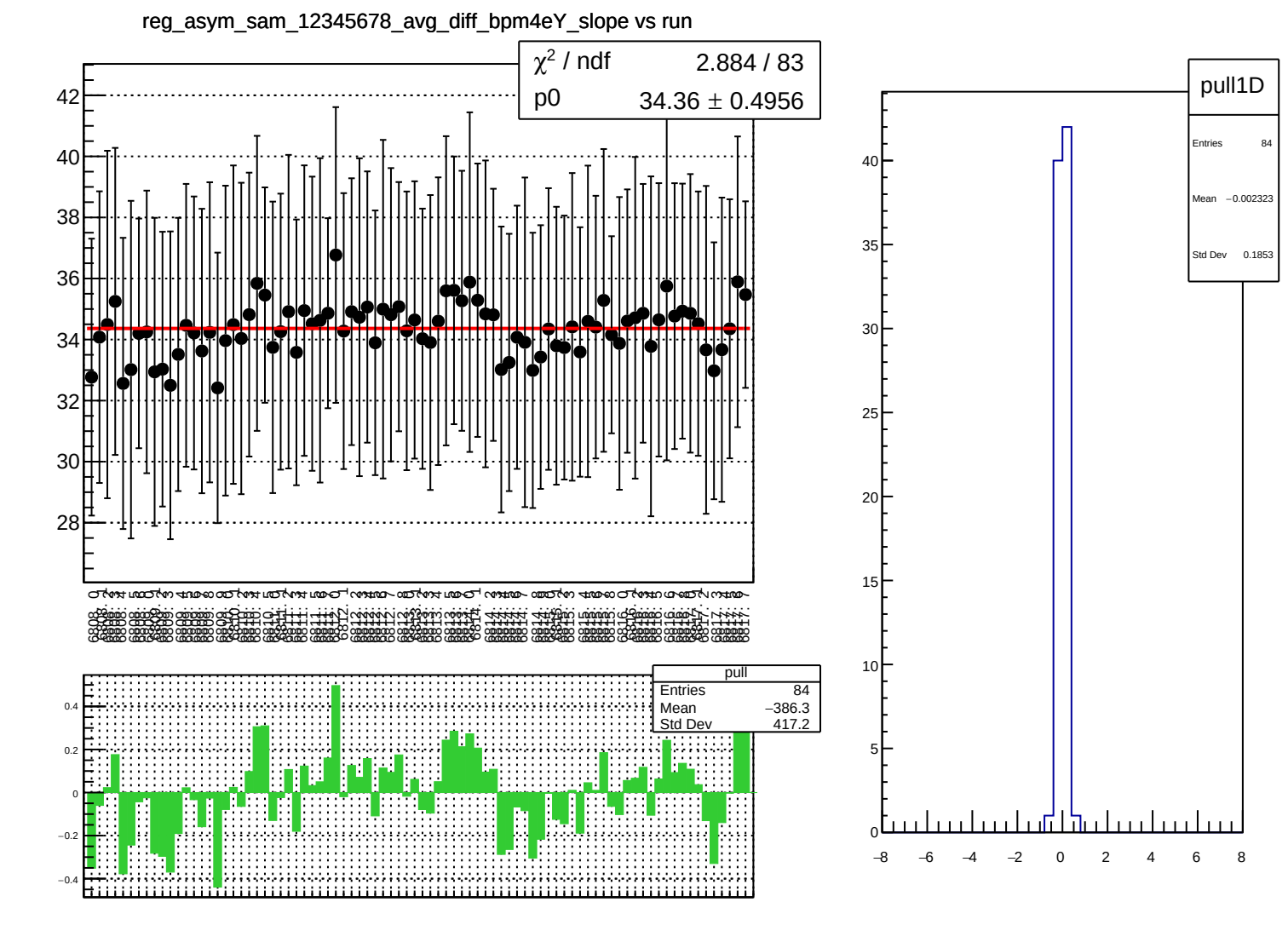

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 1.702 / 83
p0 −0.0259 ± 0.009898
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 84
Mean −47.14
Std Dev 80.68
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 84
Mean 0.002402
Std Dev 0.1423
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

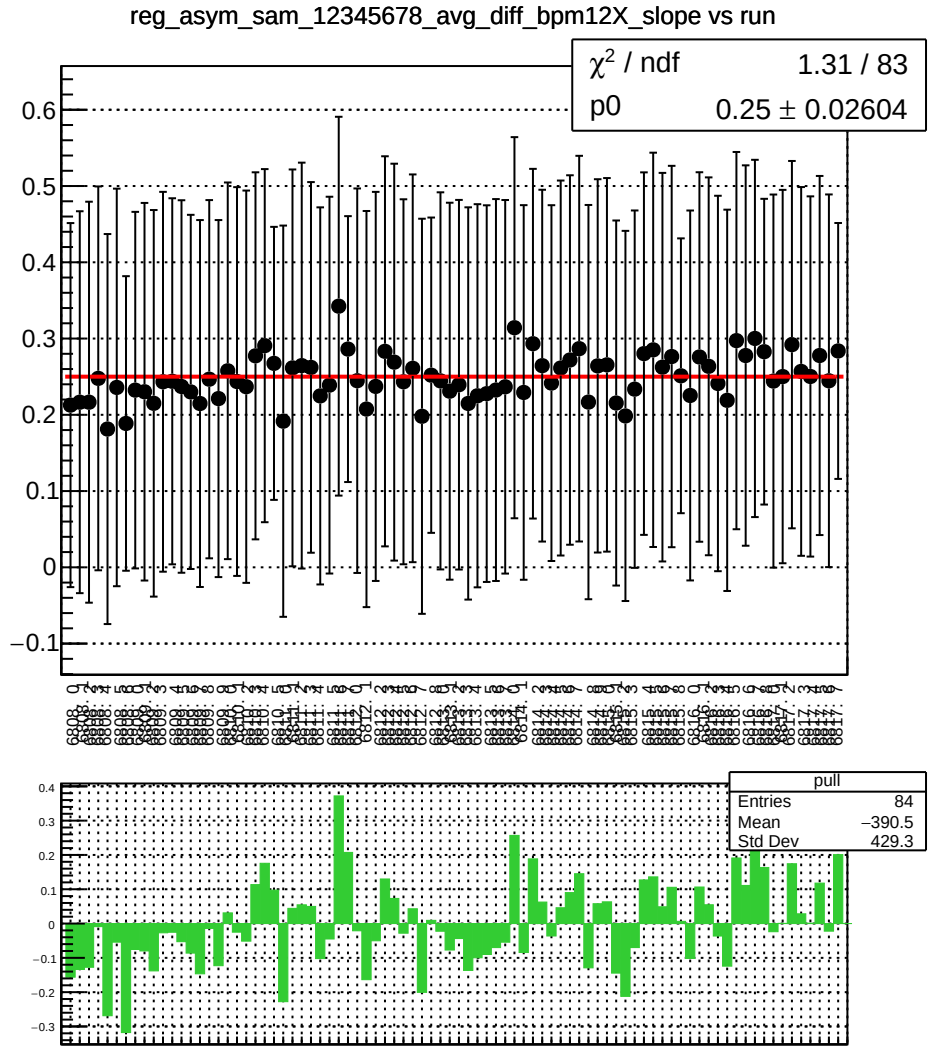

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 3.05 / 83
p0 −7.113 ± 0.6409
pull
Entries 84
Mean 58.09
Std Dev 49.49
pull1D
Entries 84
Mean 0.002333
Std Dev 0.1905

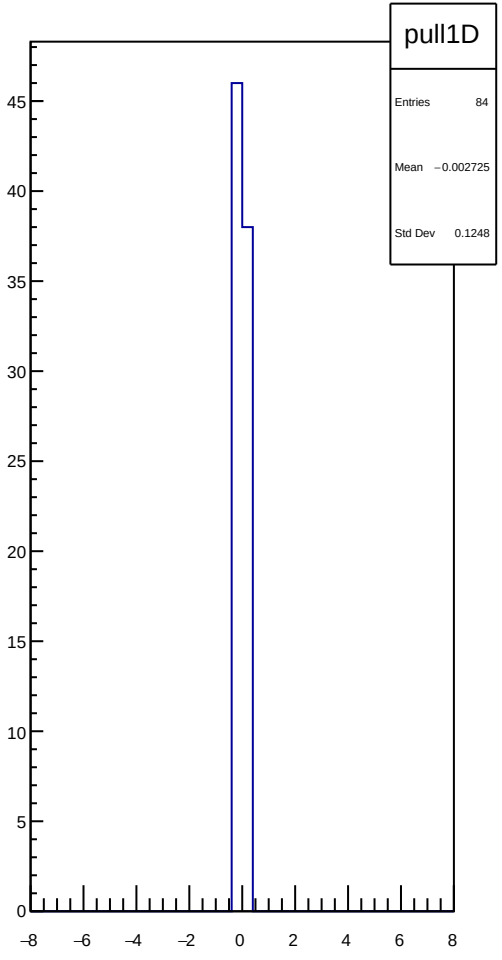

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.091 / 83
p0 −0.883 ± 0.41
pull
Entries 84
Mean −289.6
Std Dev 326

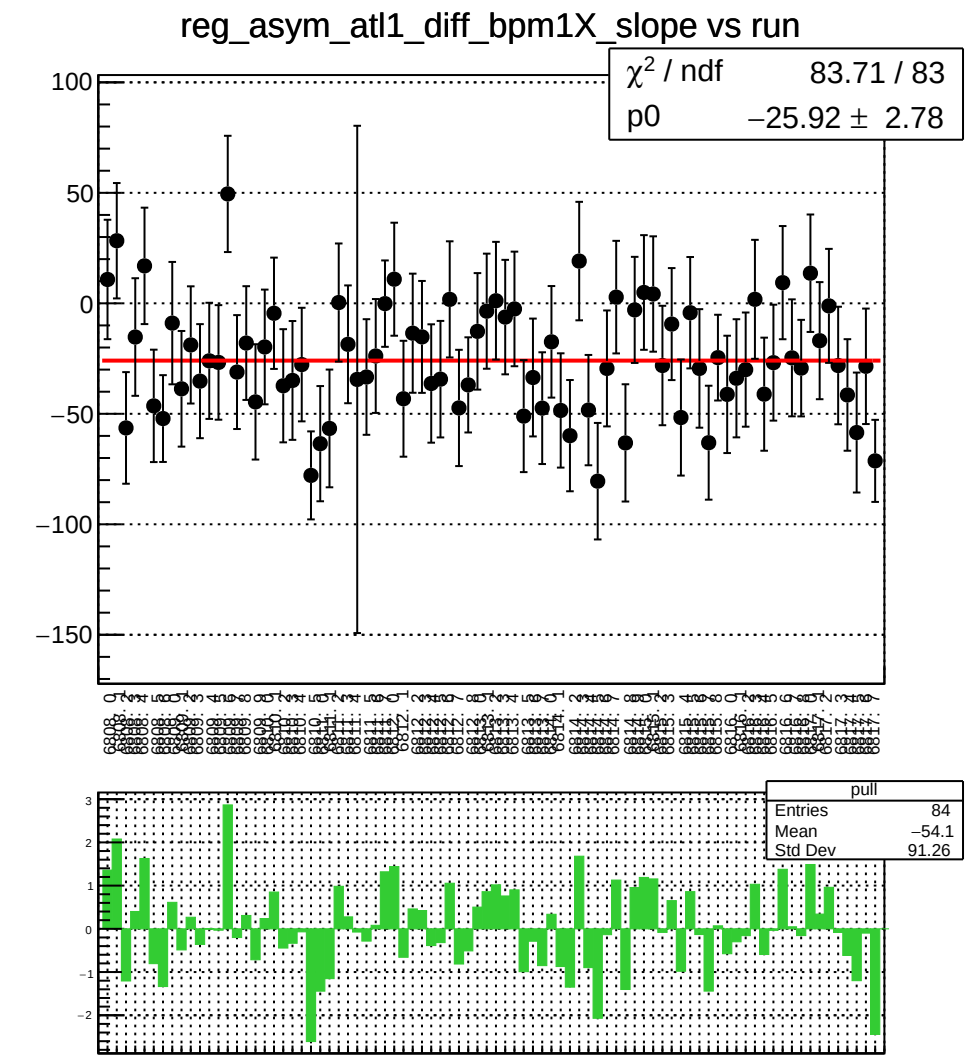

pull1D
Entries 84
Mean 0.003307
Std Dev 0.1578

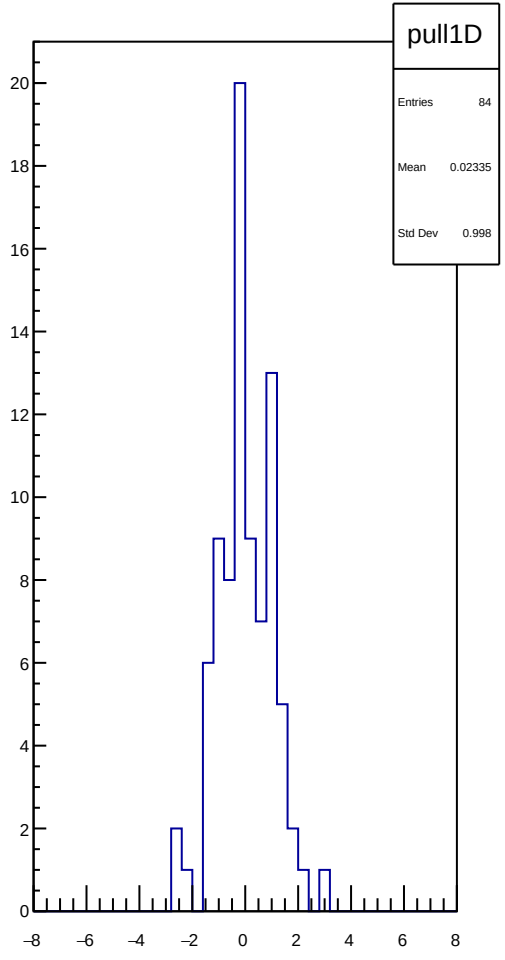

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.649 / 83
p0 −54.85 ± 0.5993
−45
−50
−55
−60
−65
pull
Entries 84
Mean −28.46
Std Dev 81.05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 84
Mean −0.009375
Std Dev 0.3016
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

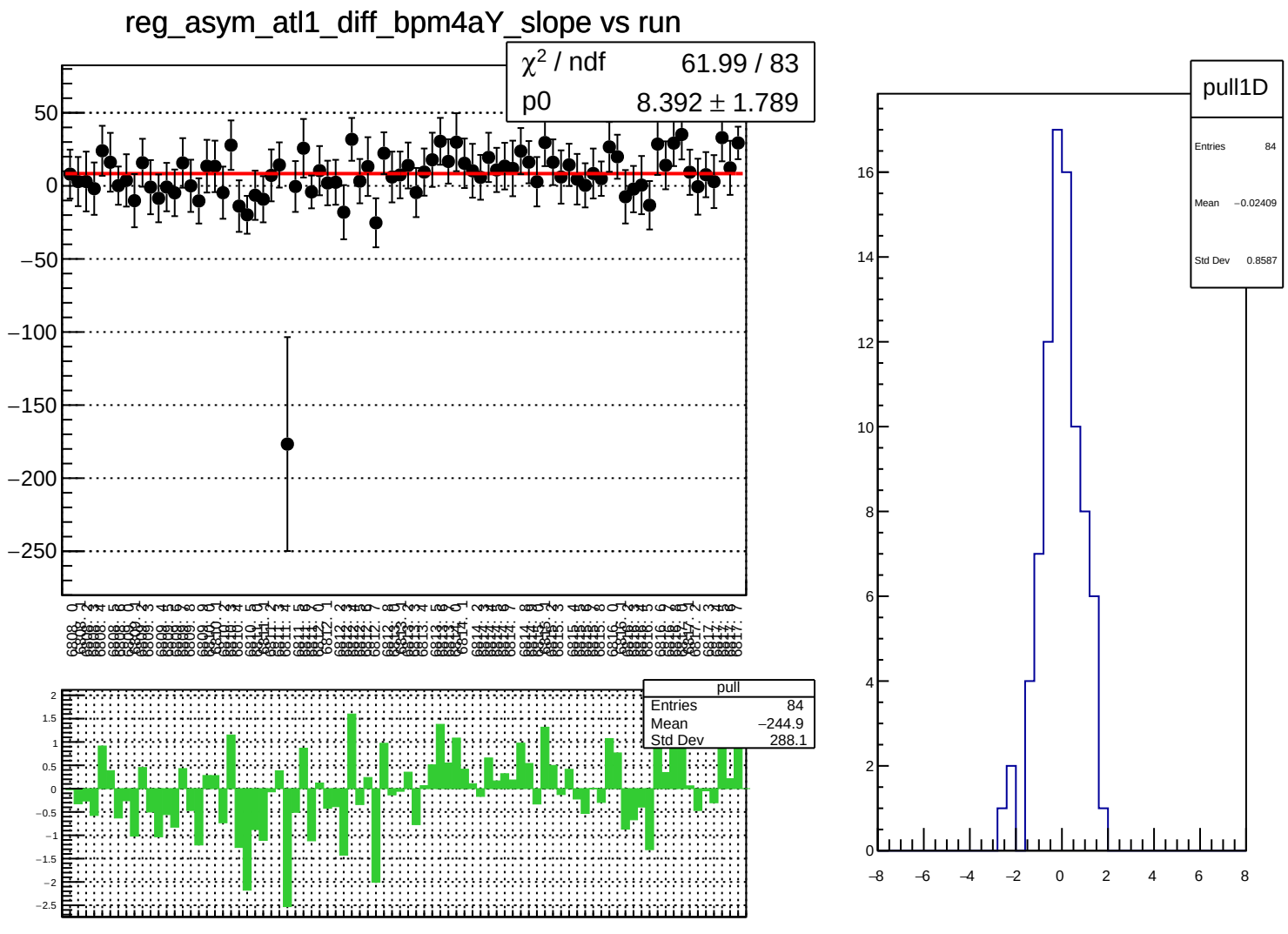

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.884 / 83
p0 34.36 ± 0.4956
pull
Entries 84
Mean −386.3
Std Dev 417.2
pull1D
Entries 84
Mean −0.002323
Std Dev 0.1853

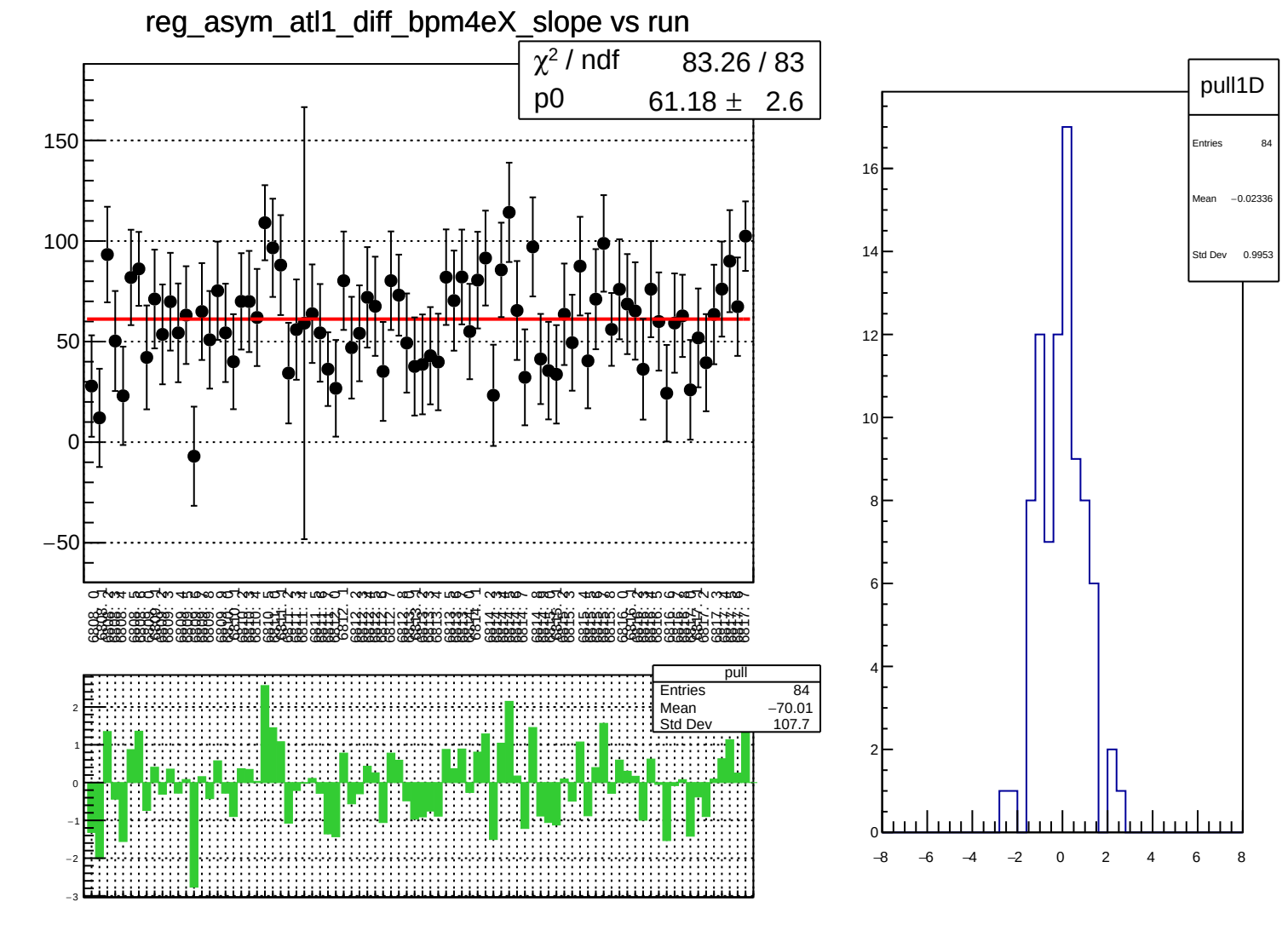

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 1.31 / 83
p0 0.25 ± 0.02604
pull
Entries 84
Mean −390.5
Std Dev 429.3

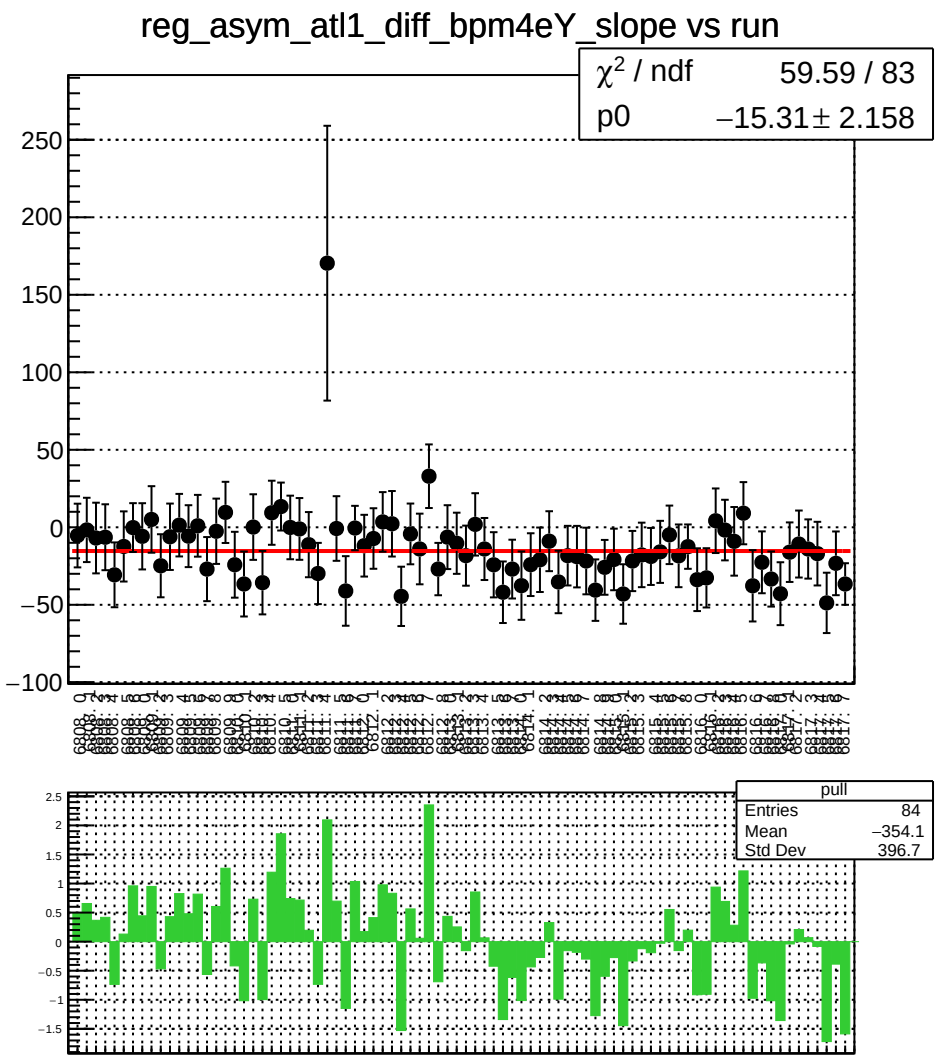

pull1D
Entries 84
Mean −0.002725
Std Dev 0.1248

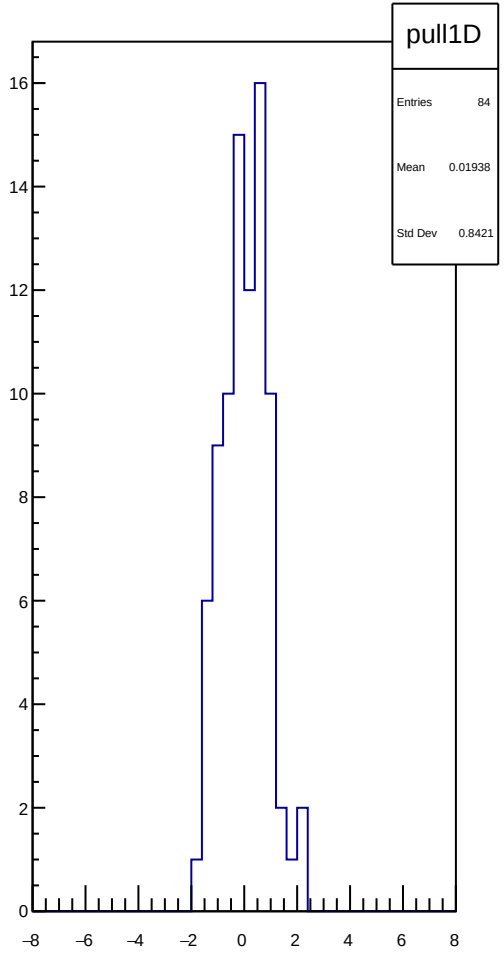

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 83.71 / 83
p0 −25.92 ± 2.78
pull
Entries 84
Mean −54.1
Std Dev 91.26

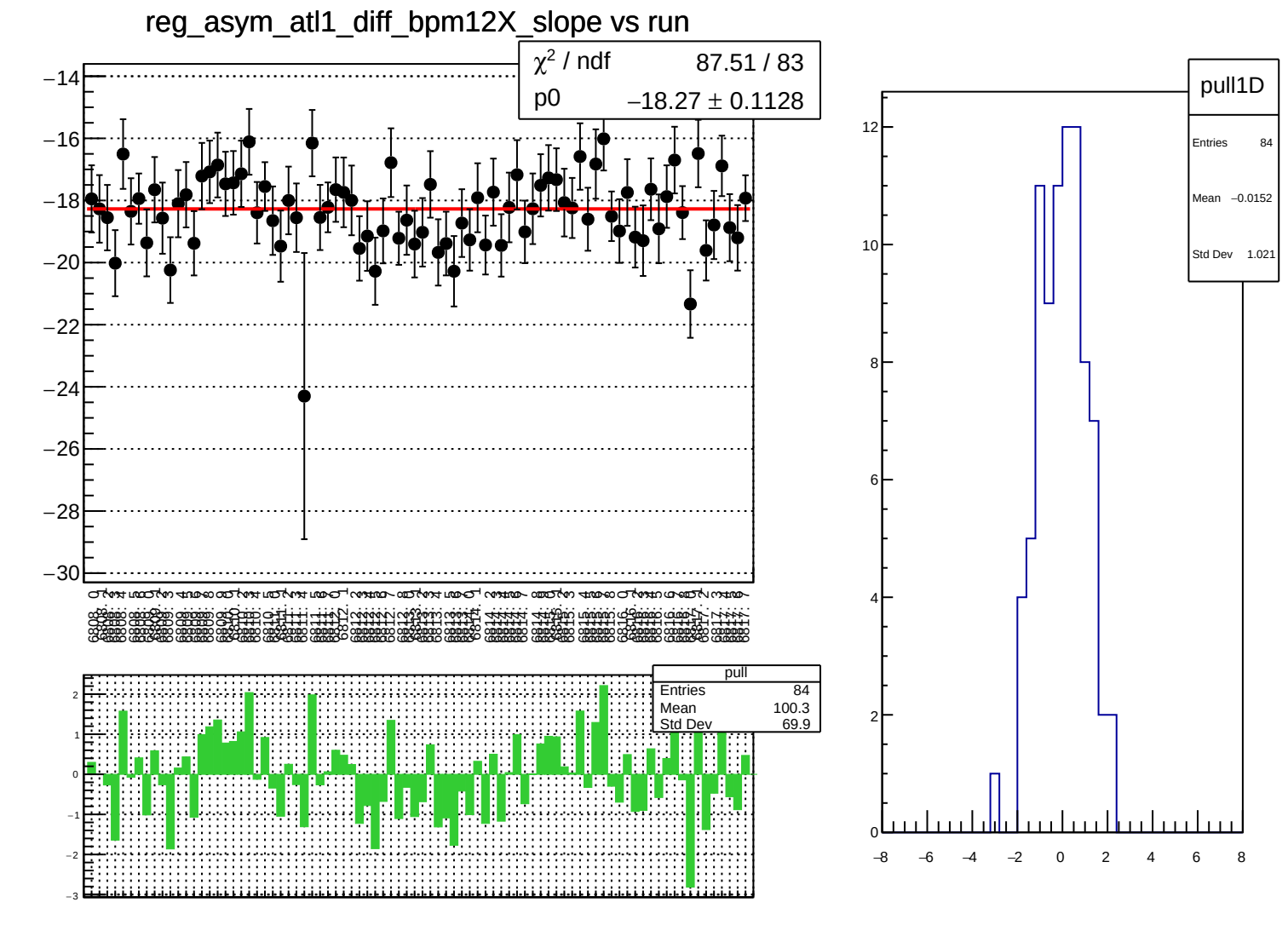

pull1D
Entries 84
Mean 0.02335
Std Dev 0.998

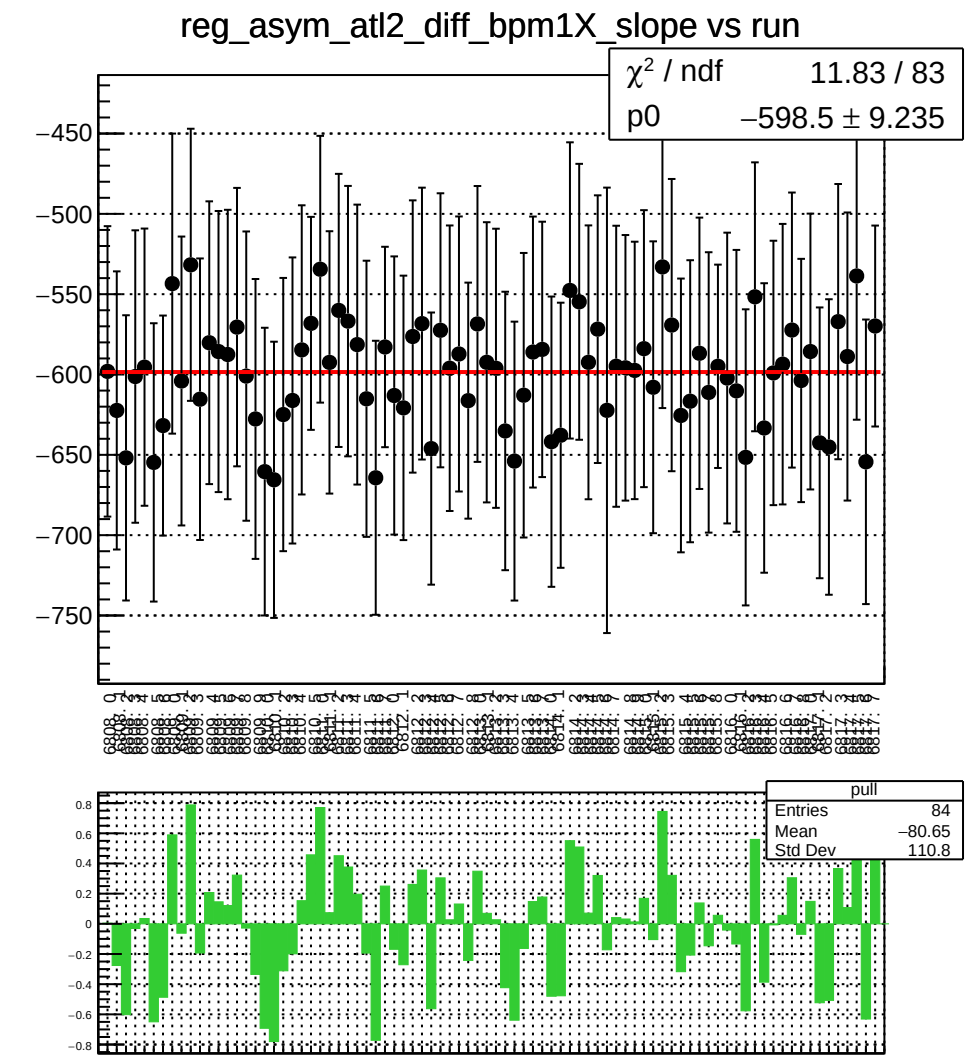

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 61.99 / 83
p0 8.392 ± 1.789
pull
Entries 84
Mean −244.9
Std Dev 288.1
pull1D
Entries 84
Mean −0.02409
Std Dev 0.8587

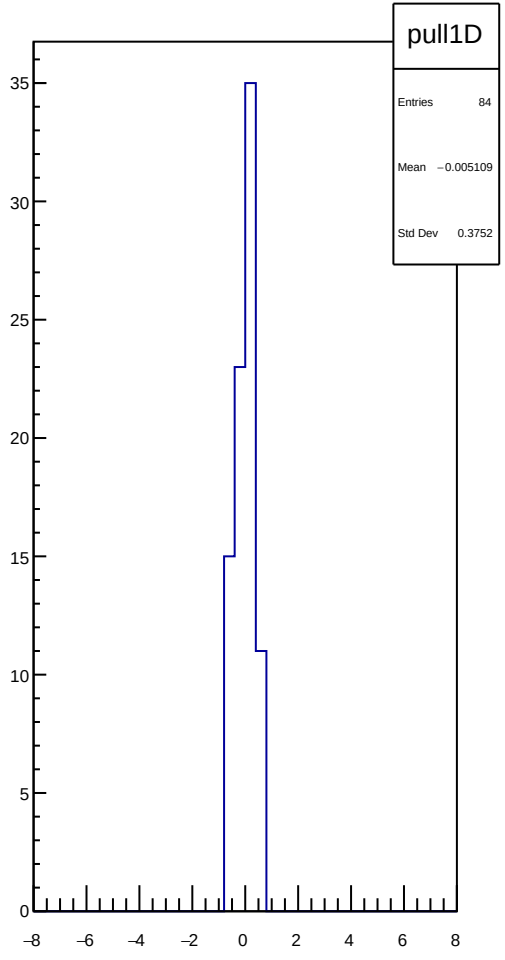

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 83.26 / 83
p0 61.18 ± 2.6
150
100
50
0
−50
pull
Entries 84
Mean −70.01
Std Dev 107.7
2
1
0
−1
−2
−3
pull1D
Entries 84
Mean −0.02336
Std Dev 0.9953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

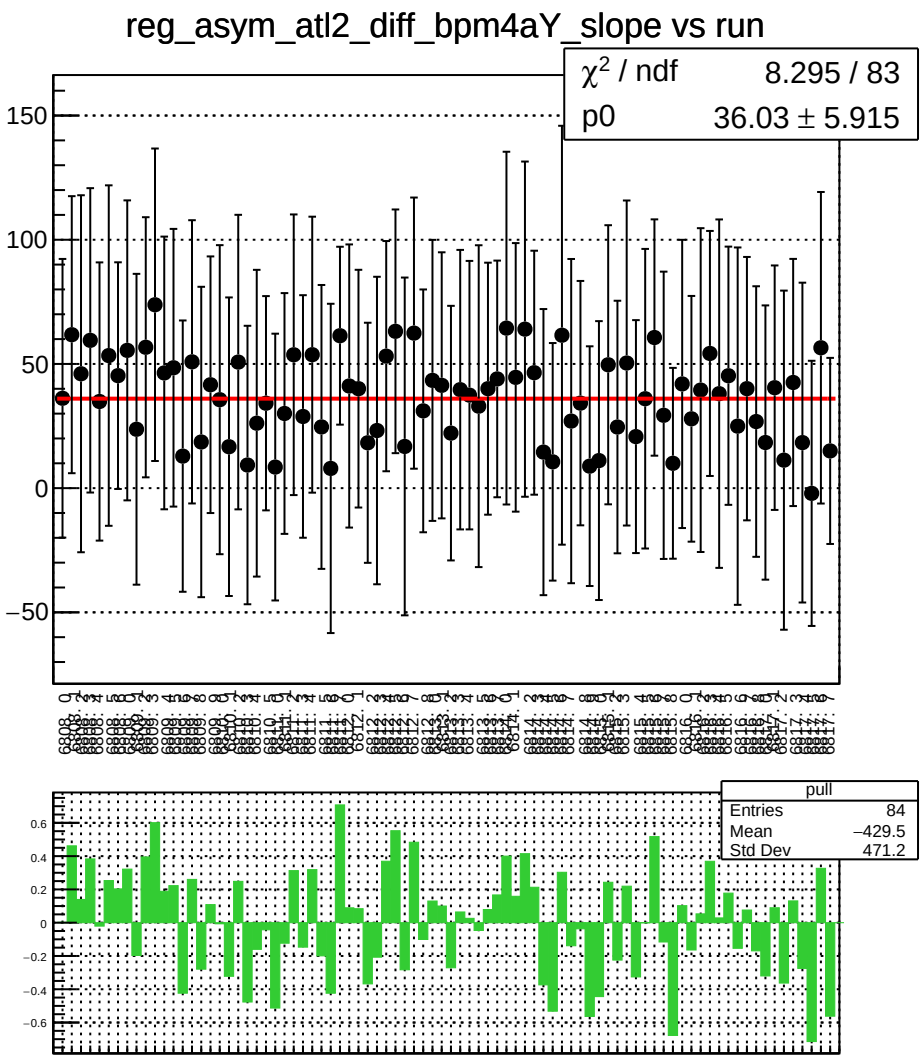

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 59.59 / 83
p0 −15.31 ± 2.158
250
200
150
100
50
0
−50
−100
pull
Entries 84
Mean −354.1
Std Dev 396.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

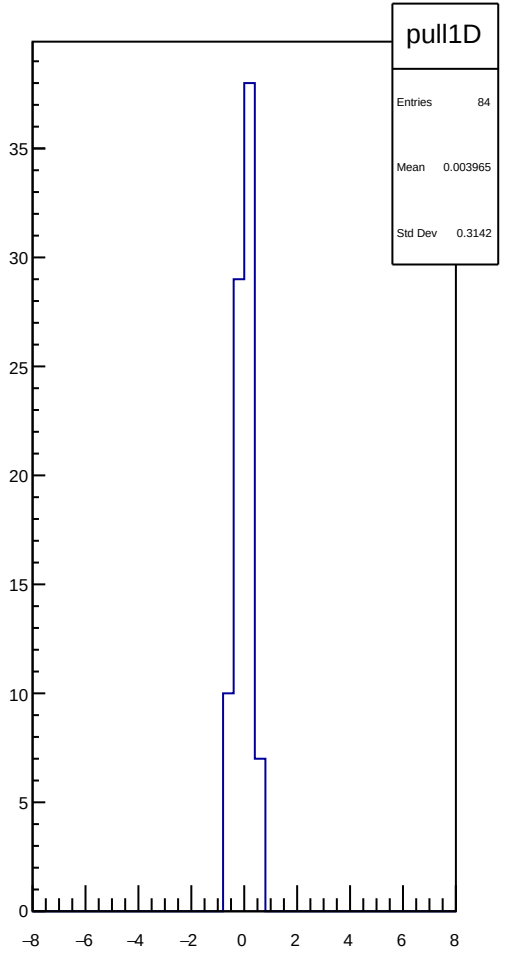

pull1D
Entries 84
Mean 0.01938
Std Dev 0.8421
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

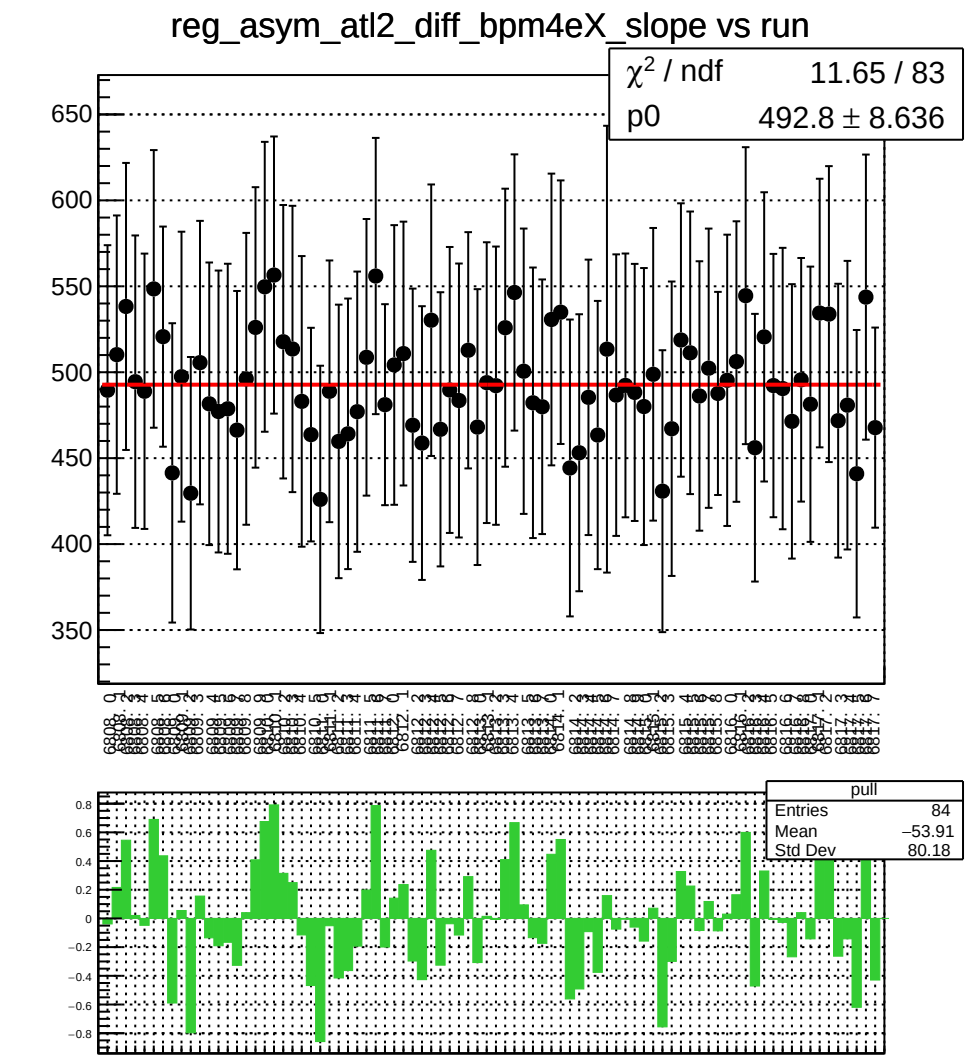

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 87.51 / 83
p0 −18.27 ± 0.1128
pull
Entries 84
Mean 100.3
Std Dev 69.9
pull1D
Entries 84
Mean −0.0152
Std Dev 1.021

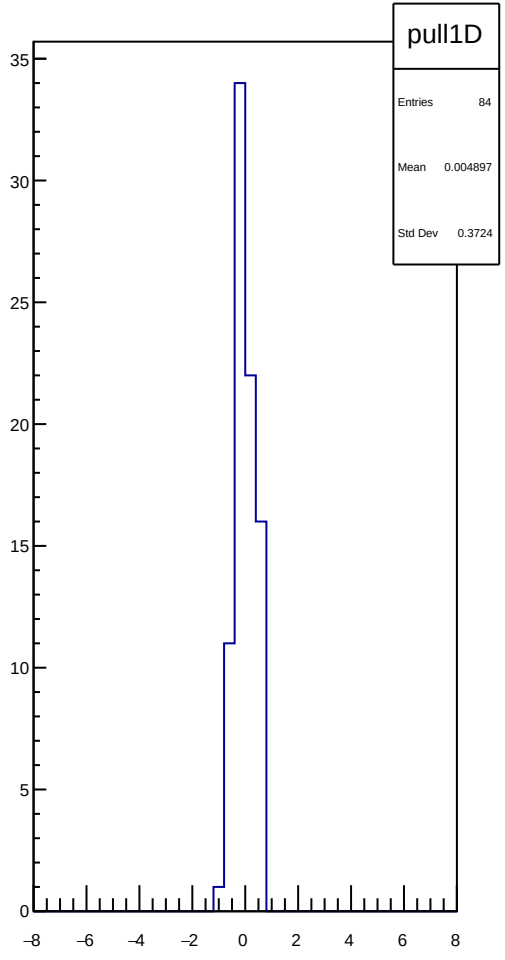

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 11.83 / 83
p0 −598.5 ± 9.235
−450
−500
−550
−600
−650
−700
−750
pull
Entries 84
Mean −80.65
Std Dev 110.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

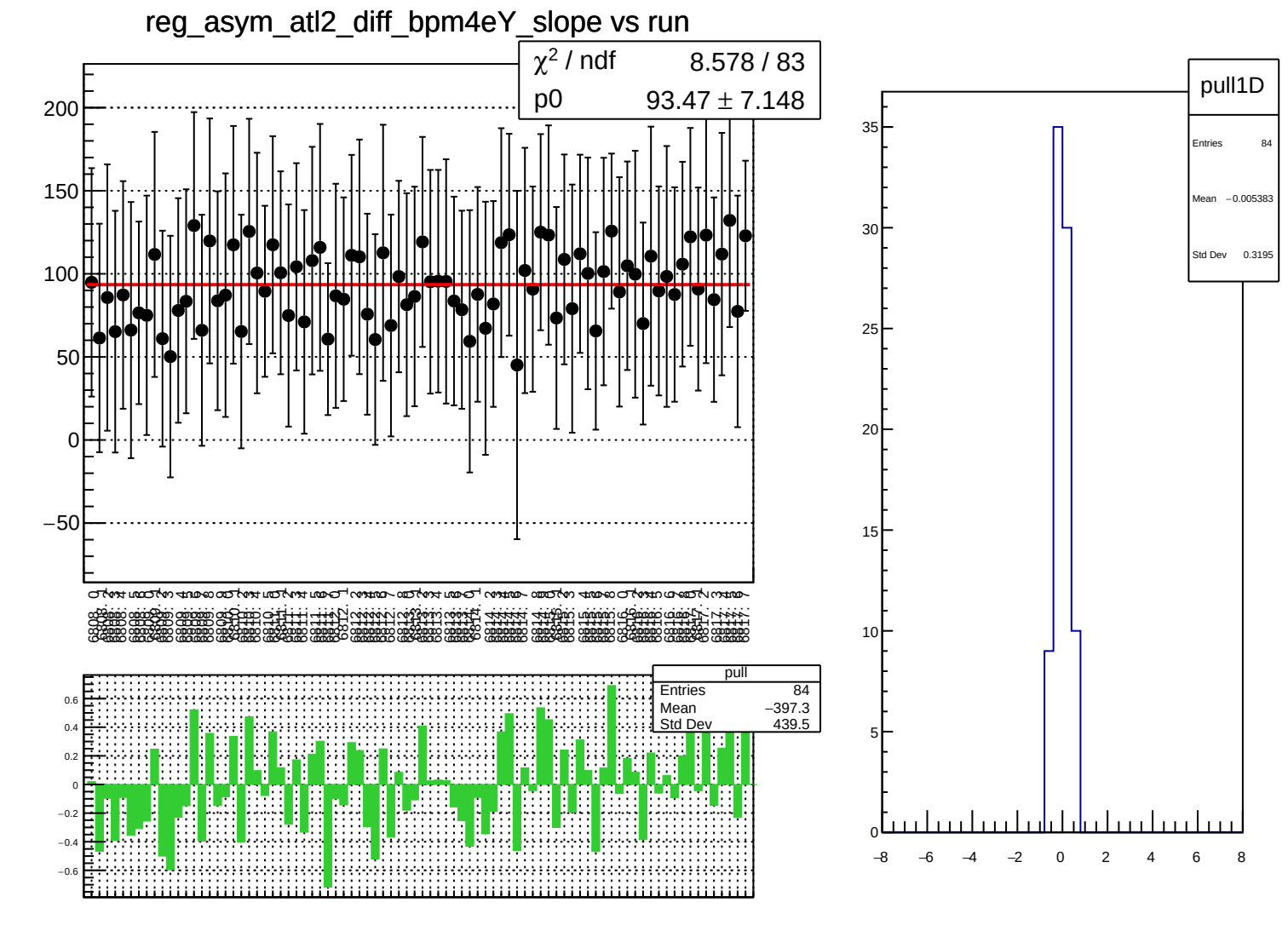

pull1D
Entries 84
Mean −0.005109
Std Dev 0.3752
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

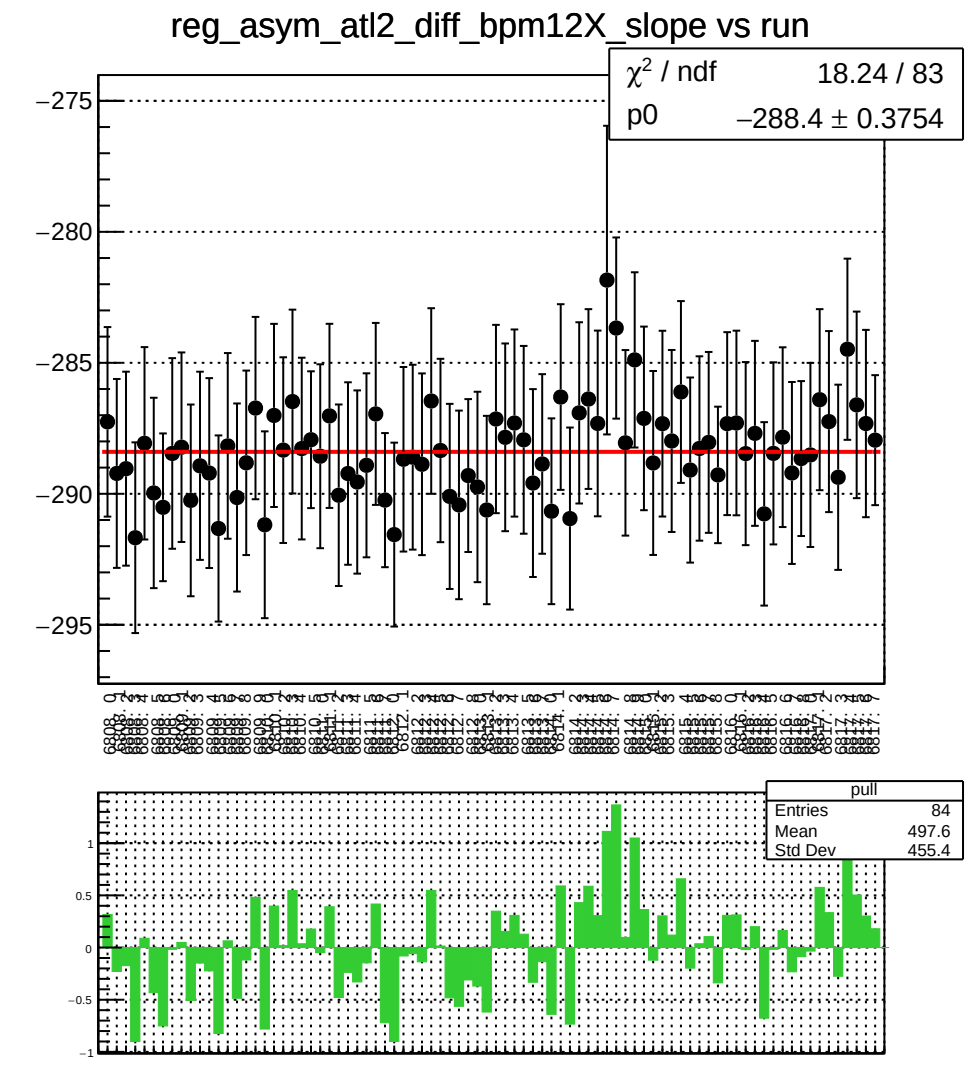

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 8.295 / 83
p0 36.03 ± 5.915
150
100
50
0
−50
pull
Entries 84
Mean −429.5
Std Dev 471.2
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

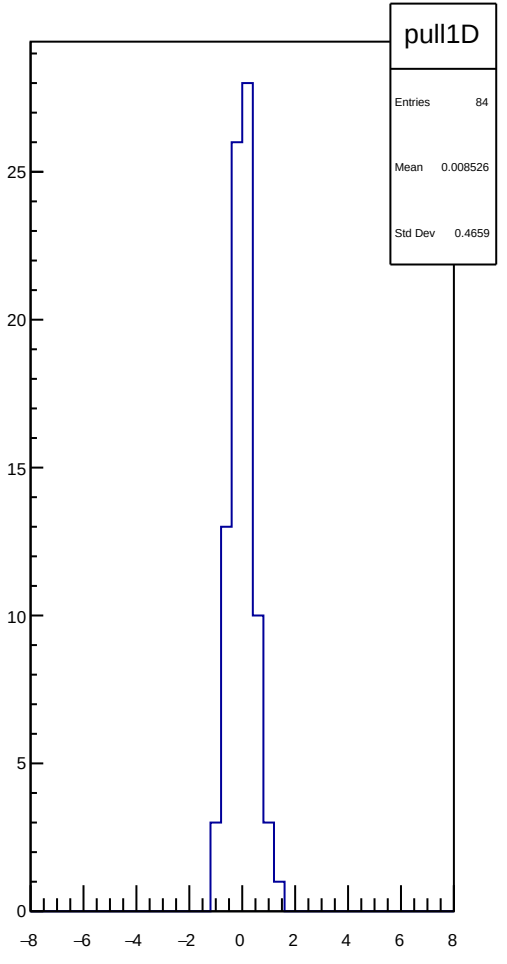

pull1D
Entries 84
Mean 0.003965
Std Dev 0.3142
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

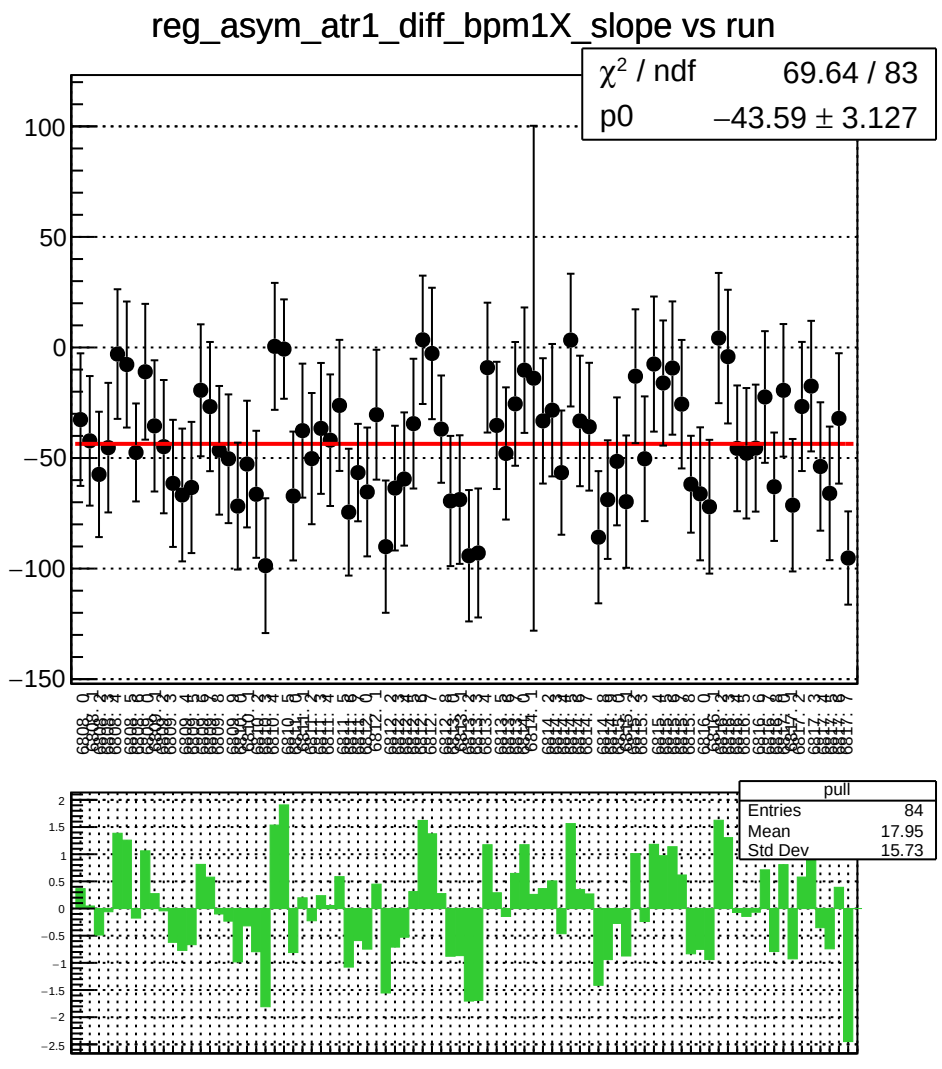

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 11.65 / 83
p0 492.8 ± 8.636
650
600
550
500
450
400
350
pull
Entries 84
Mean −53.91
Std Dev 80.18
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

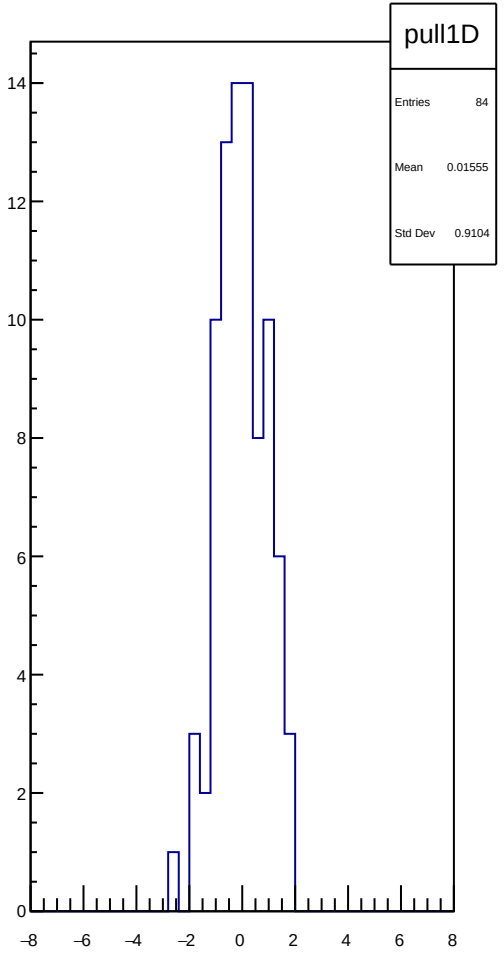

pull1D
Entries 84
Mean 0.004897
Std Dev 0.3724
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

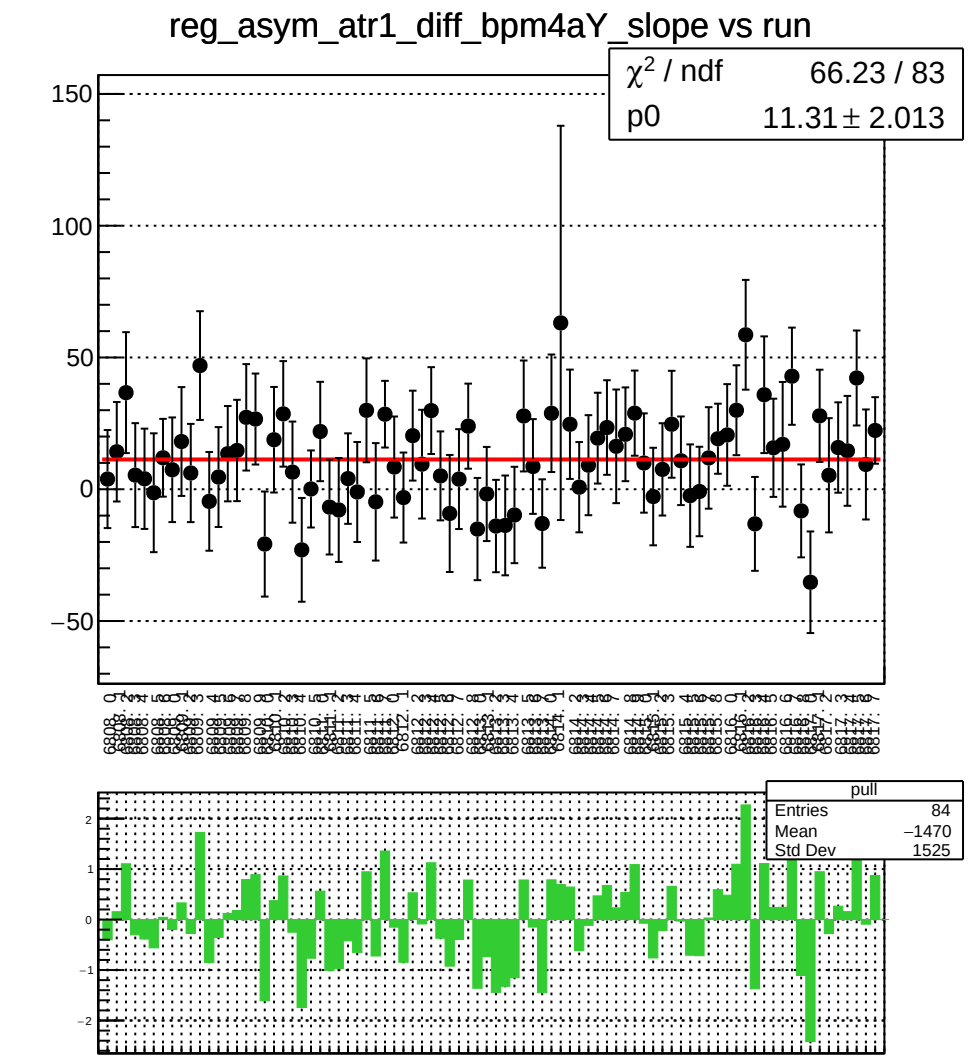

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 8.578 / 83
p0 93.47 ± 7.148
200
150
100
50
0
−50
pull
Entries 84
Mean −397.3
Std Dev 439.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 84
Mean −0.005383
Std Dev 0.3195
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

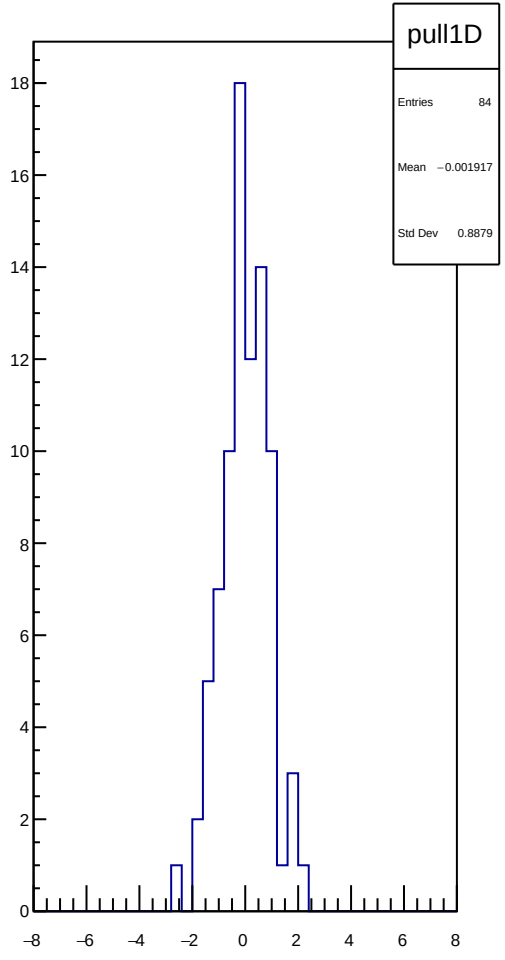

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 18.24 / 83
p0 −288.4 ± 0.3754
−275
−280
−285
−290
−295
pull
Entries 84
Mean 497.6
Std Dev 455.4
1
0.5
0
−0.5
−1

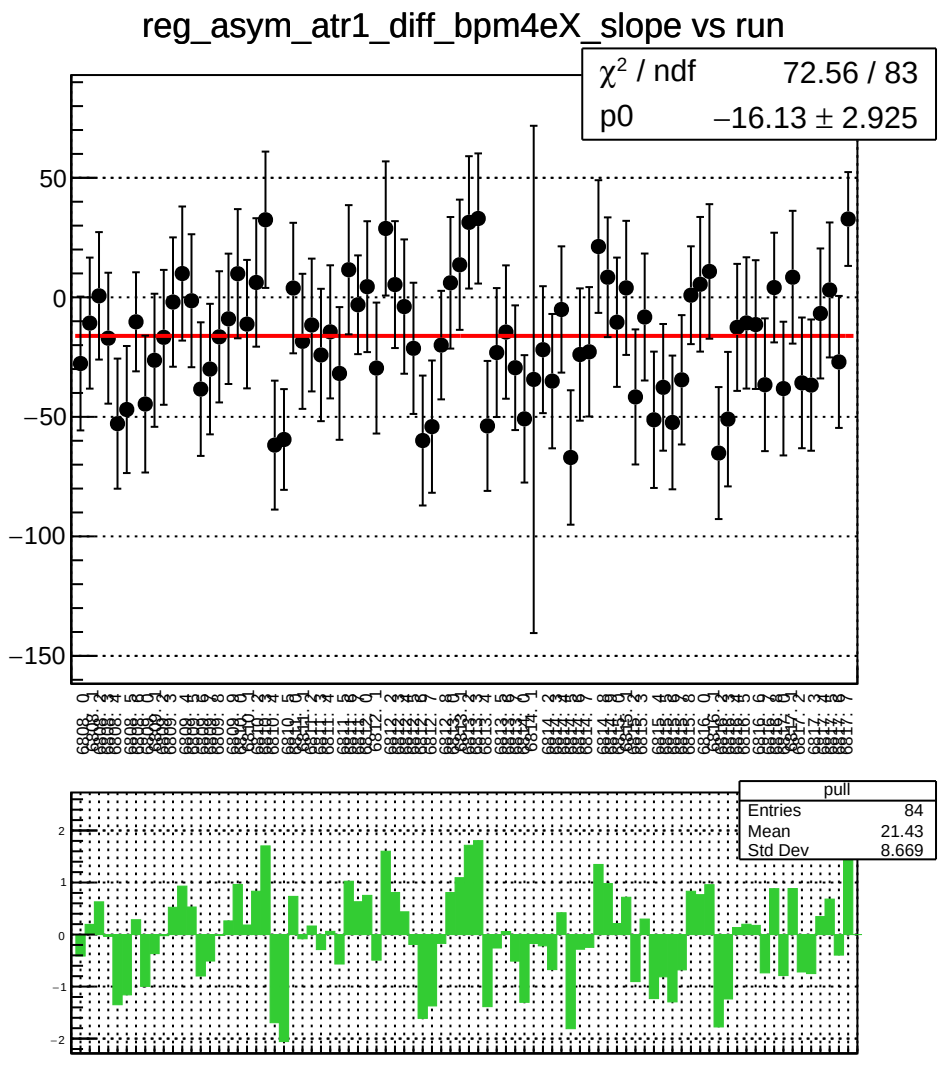

pull1D
Entries 84
Mean 0.008526
Std Dev 0.4659
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

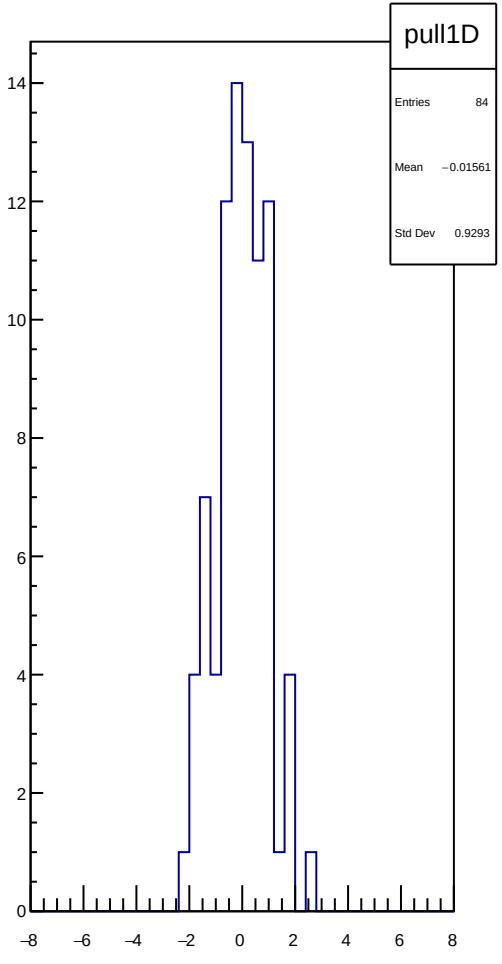

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 69.64 / 83
p0 −43.59 ± 3.127
pull
Entries 84
Mean 17.95
Std Dev 15.73

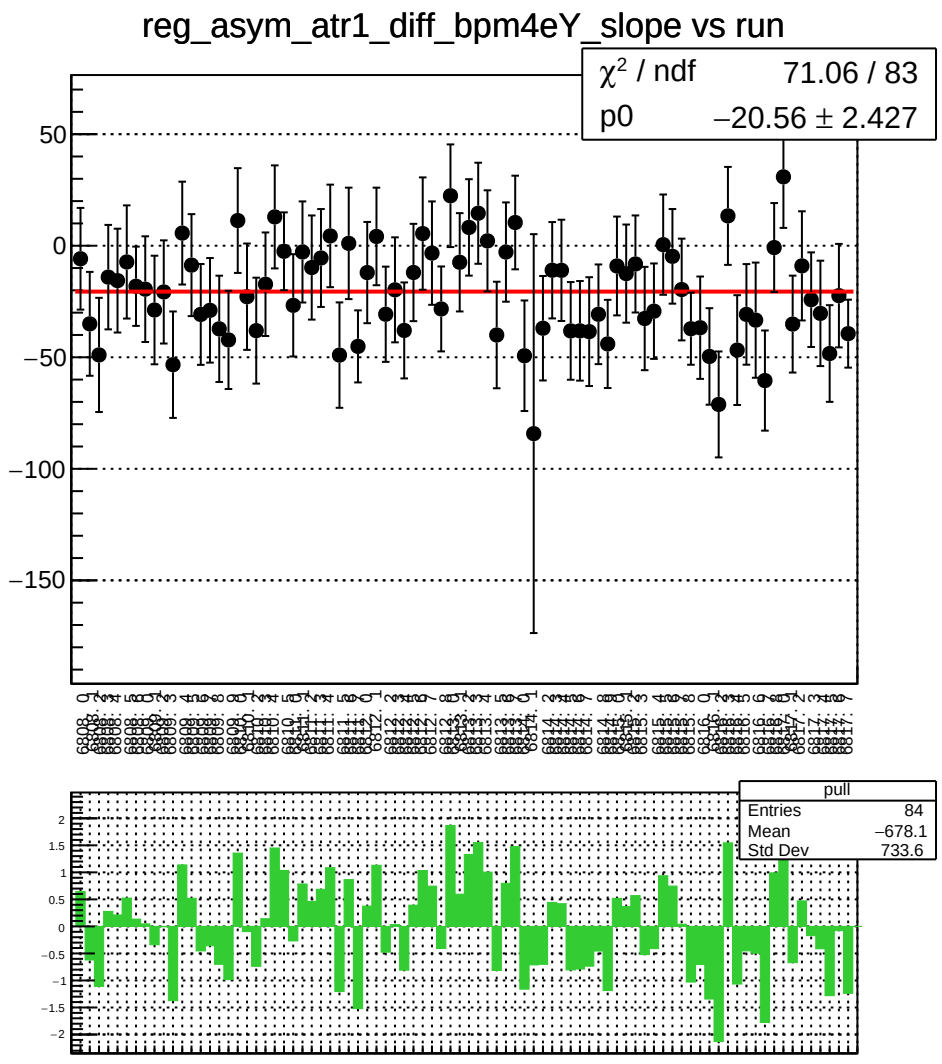

pull1D
Entries 84
Mean 0.01555
Std Dev 0.9104

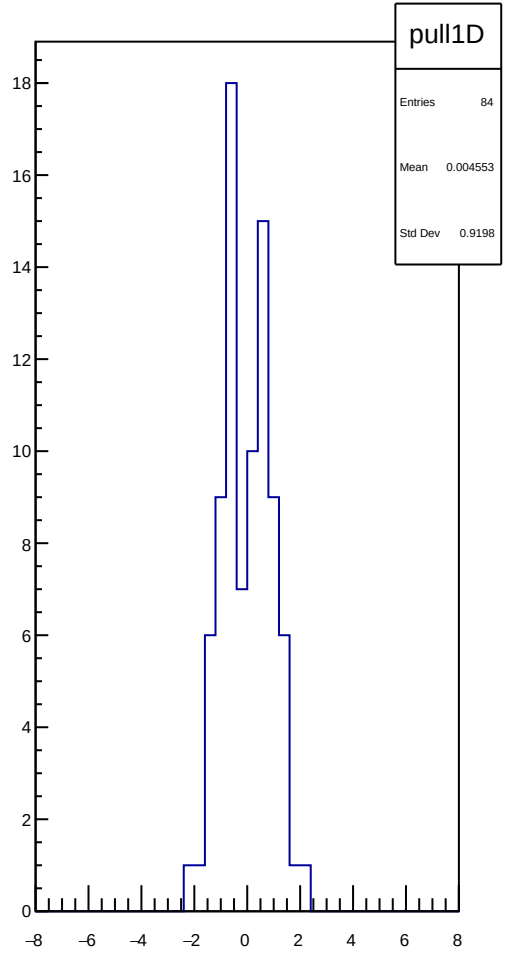

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 66.23 / 83
p0 11.31 ± 2.013
150
100
50
0
−50
pull
Entries 84
Mean −1470
Std Dev 1525
2
1
0
−1
−2

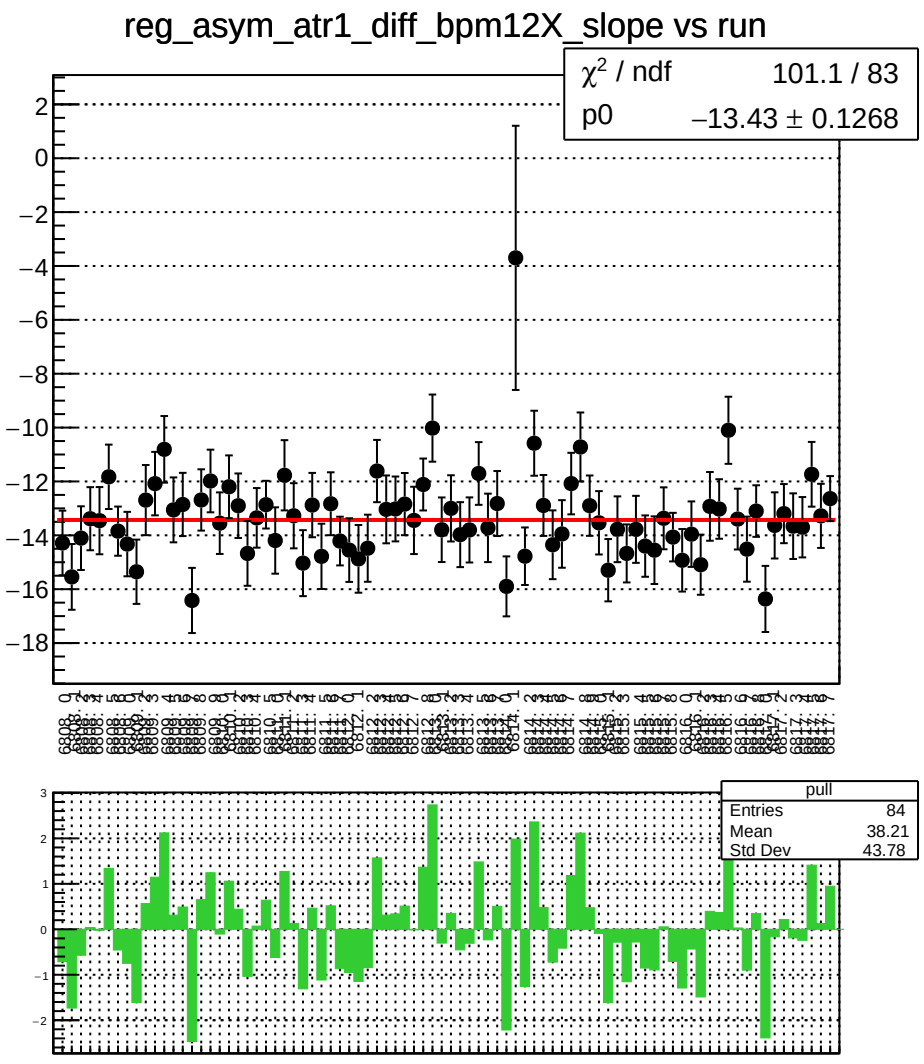

pull1D
Entries 84
Mean −0.001917
Std Dev 0.8879
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

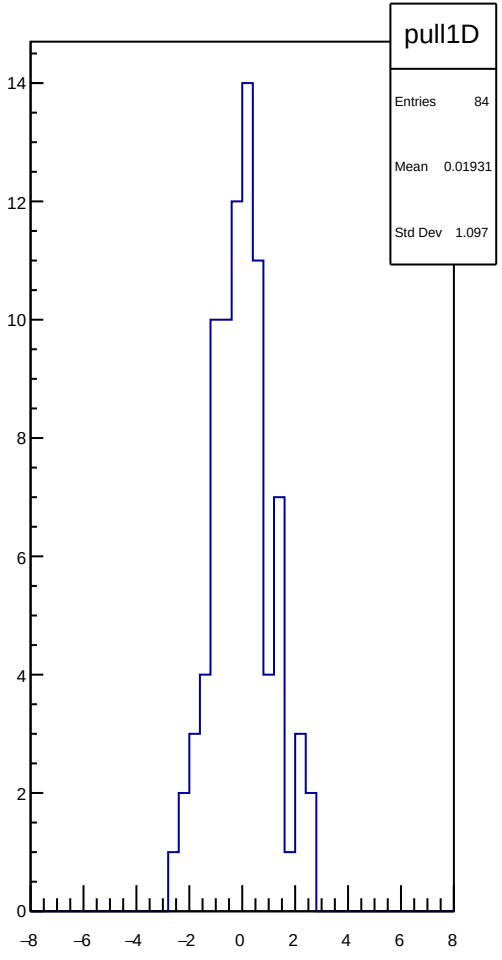

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 72.56 / 83
p0 −16.13 ± 2.925
50
0
−50
−100
−150
pull
Entries 84
Mean 21.43
Std Dev 8.669
2
1
0
−1
−2

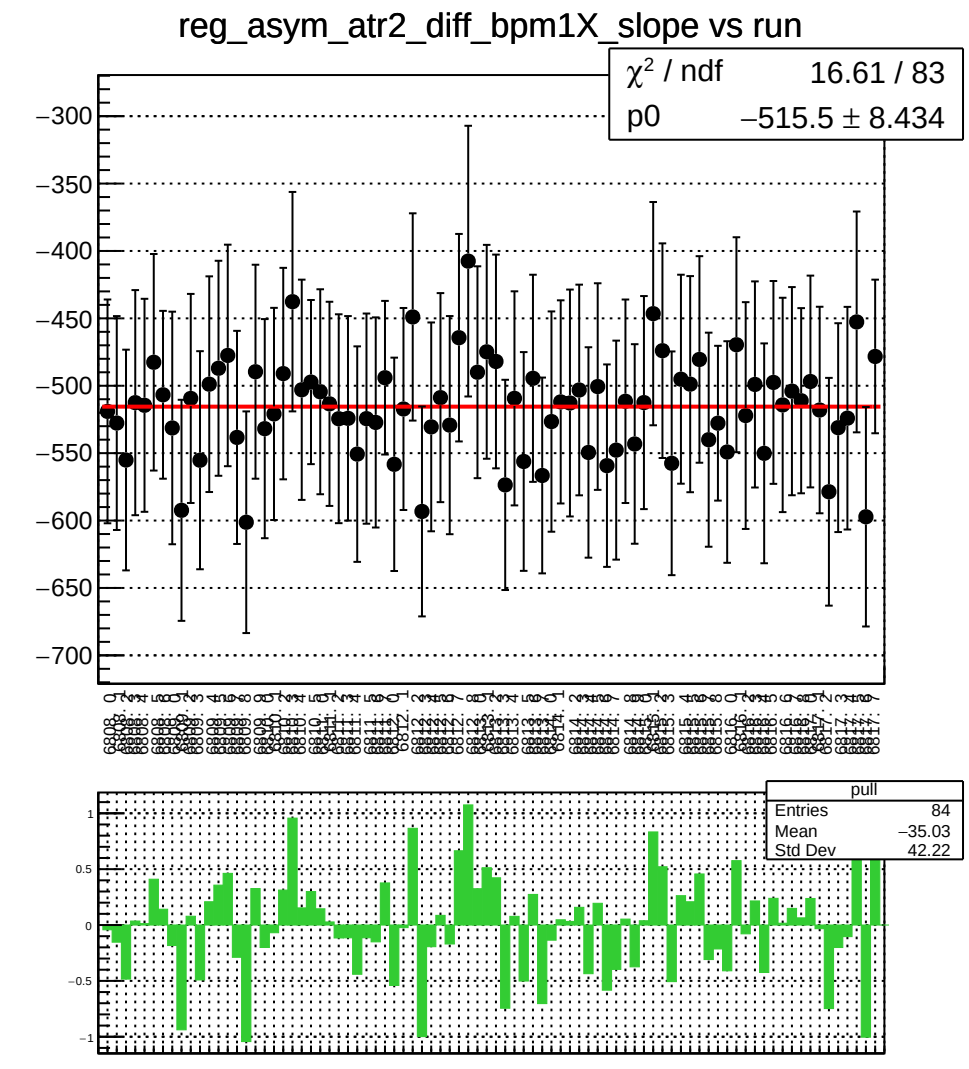

pull1D
Entries 84
Mean −0.01561
Std Dev 0.9293
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

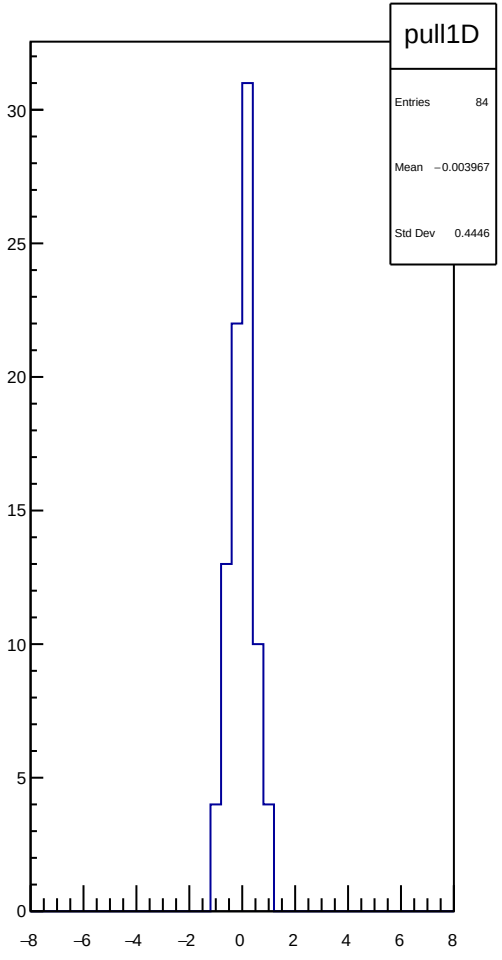

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 71.06 / 83
p0 −20.56 ± 2.427
50
0
−50
−100
−150
pull
Entries 84
Mean −678.1
Std Dev 733.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

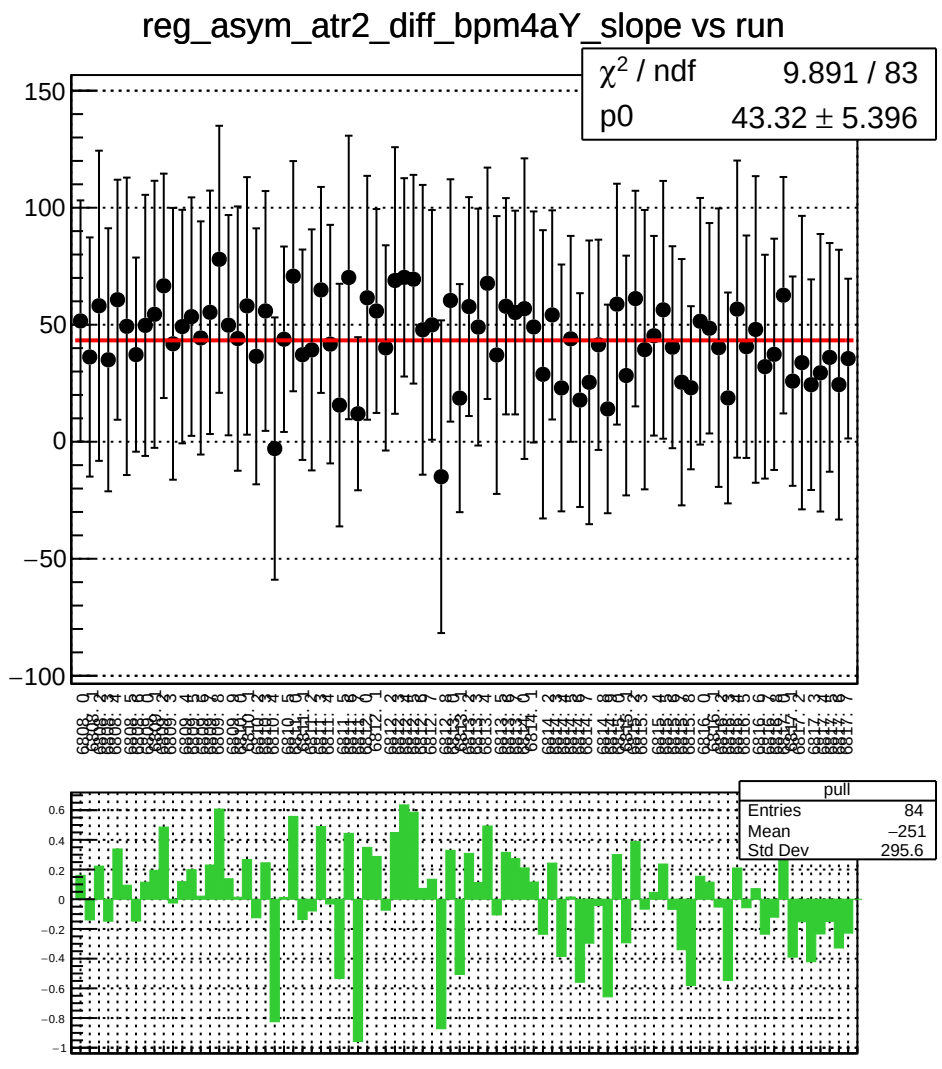

pull1D
Entries 84
Mean 0.004553
Std Dev 0.9198
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

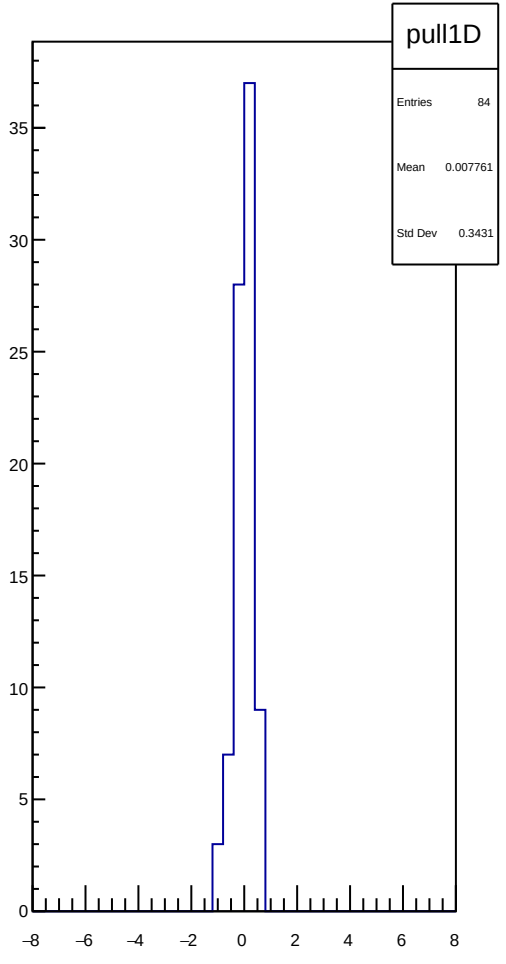

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 101.1 / 83
p0 −13.43 ± 0.1268
pull
Entries 84
Mean 38.21
Std Dev 43.78

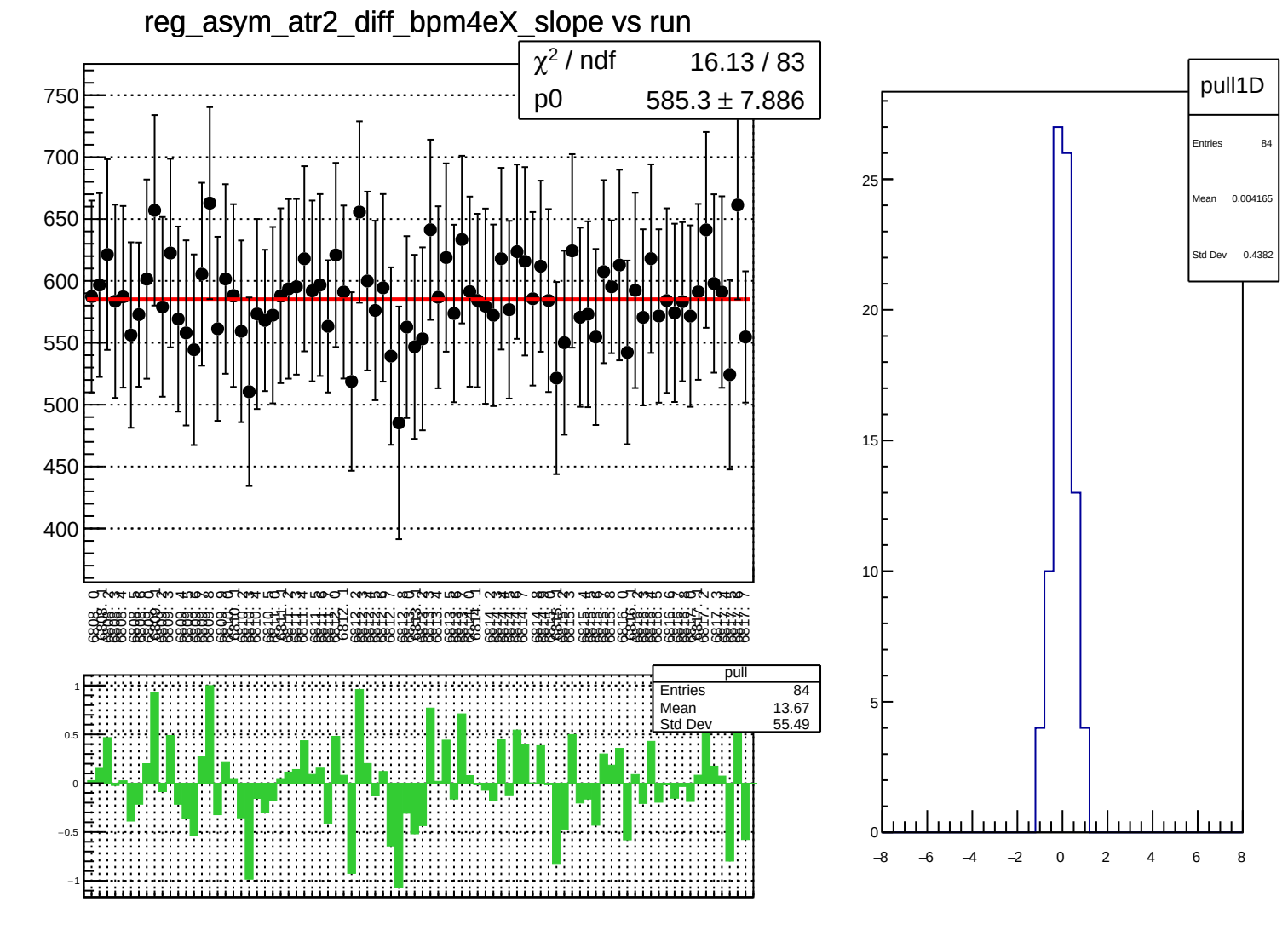

pull1D
Entries 84
Mean 0.01931
Std Dev 1.097

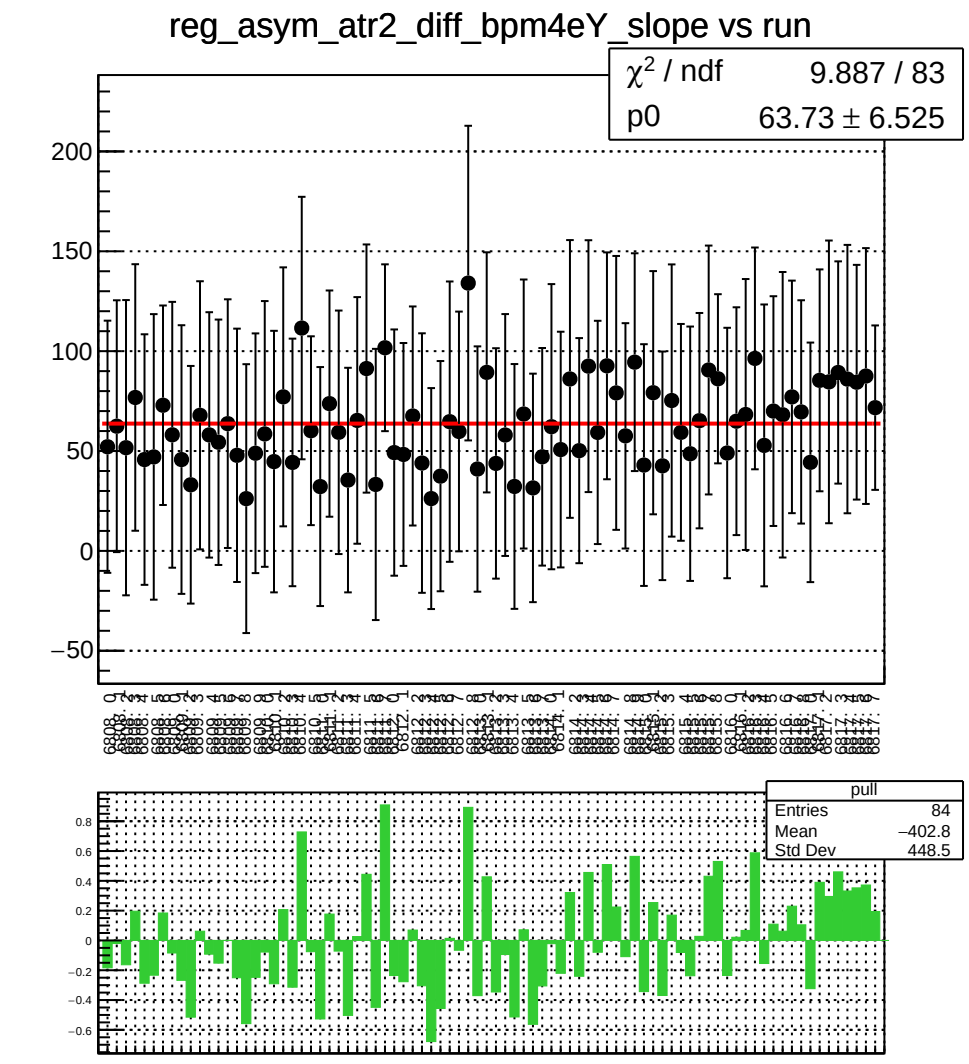

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 16.61 / 83
p0 −515.5 ± 8.434
pull
Entries 84
Mean −35.03
Std Dev 42.22

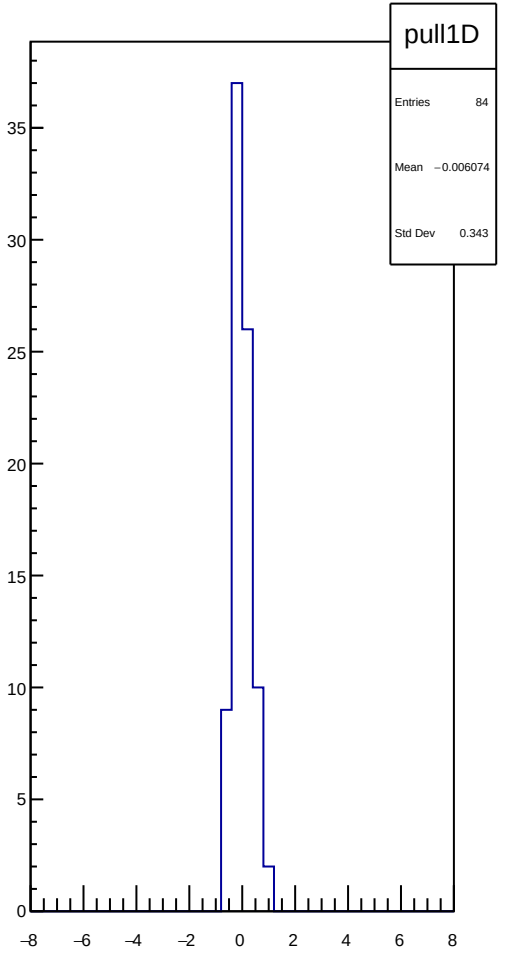

pull1D
Entries 84
Mean −0.003967
Std Dev 0.4446

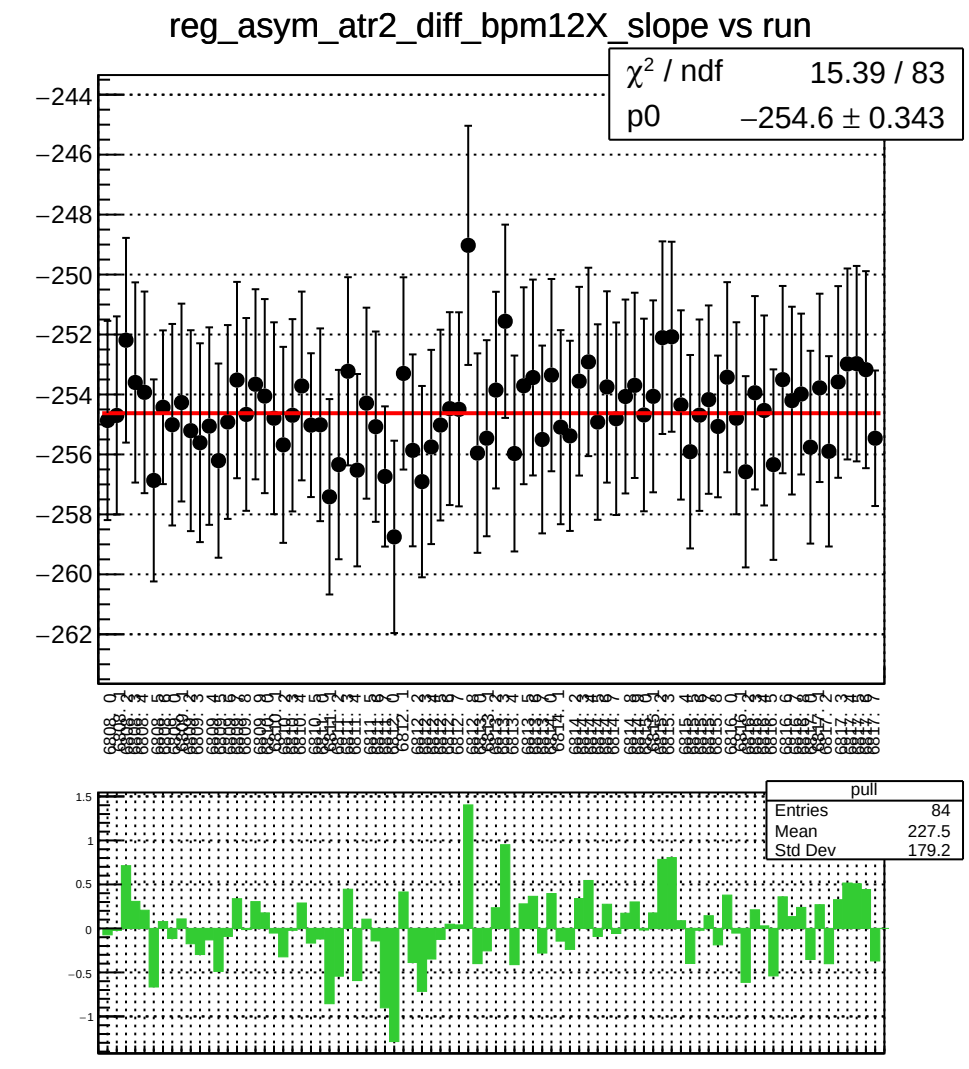

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 9.891 / 83
p0 43.32 ± 5.396
150
100
50
0
−50
−100
pull
Entries 84
Mean −251
Std Dev 295.6
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

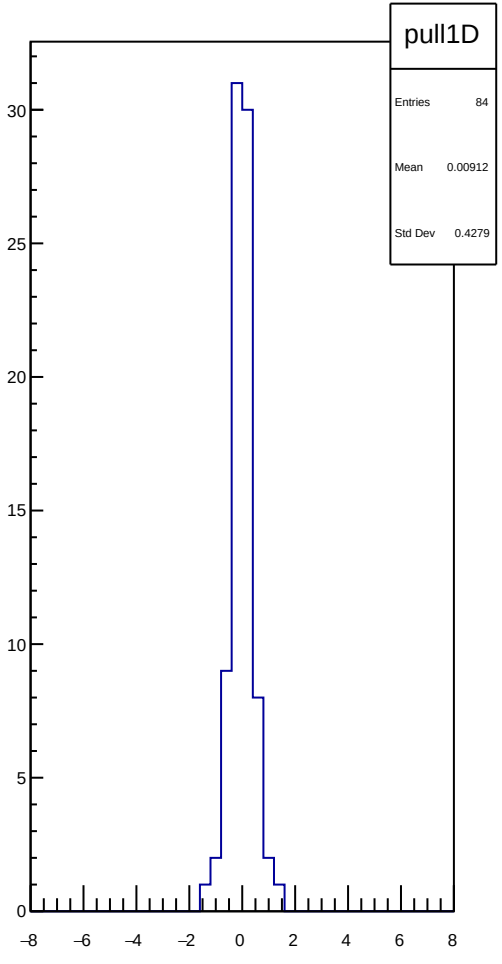

pull1D
Entries 84
Mean 0.007761
Std Dev 0.3431
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

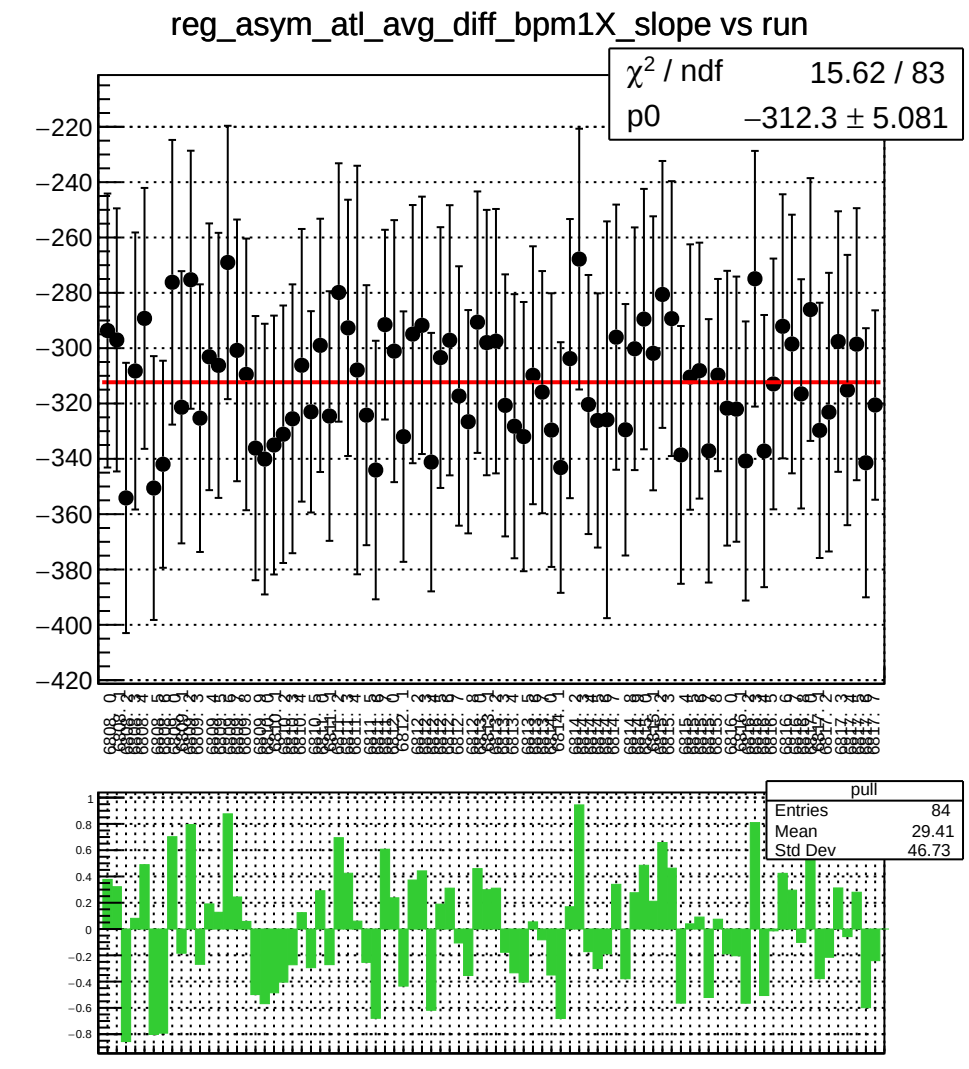

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 16.13 / 83
p0 585.3 ± 7.886
750
700
650
600
550
500
450
400
pull
Entries 84
Mean 13.67
Std Dev 55.49
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean 0.004165
Std Dev 0.4382
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

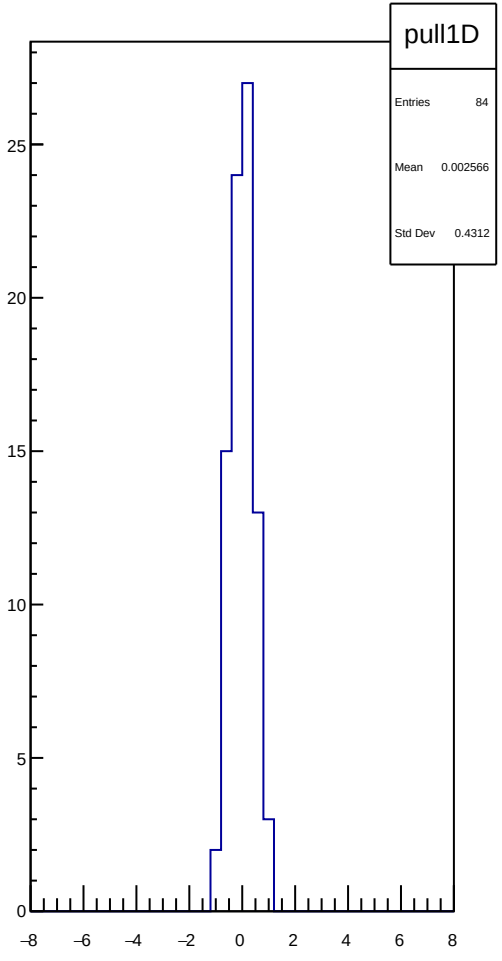

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 9.887 / 83
p0 63.73 ± 6.525
200
150
100
50
0
−50
pull
Entries 84
Mean −402.8
Std Dev 448.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

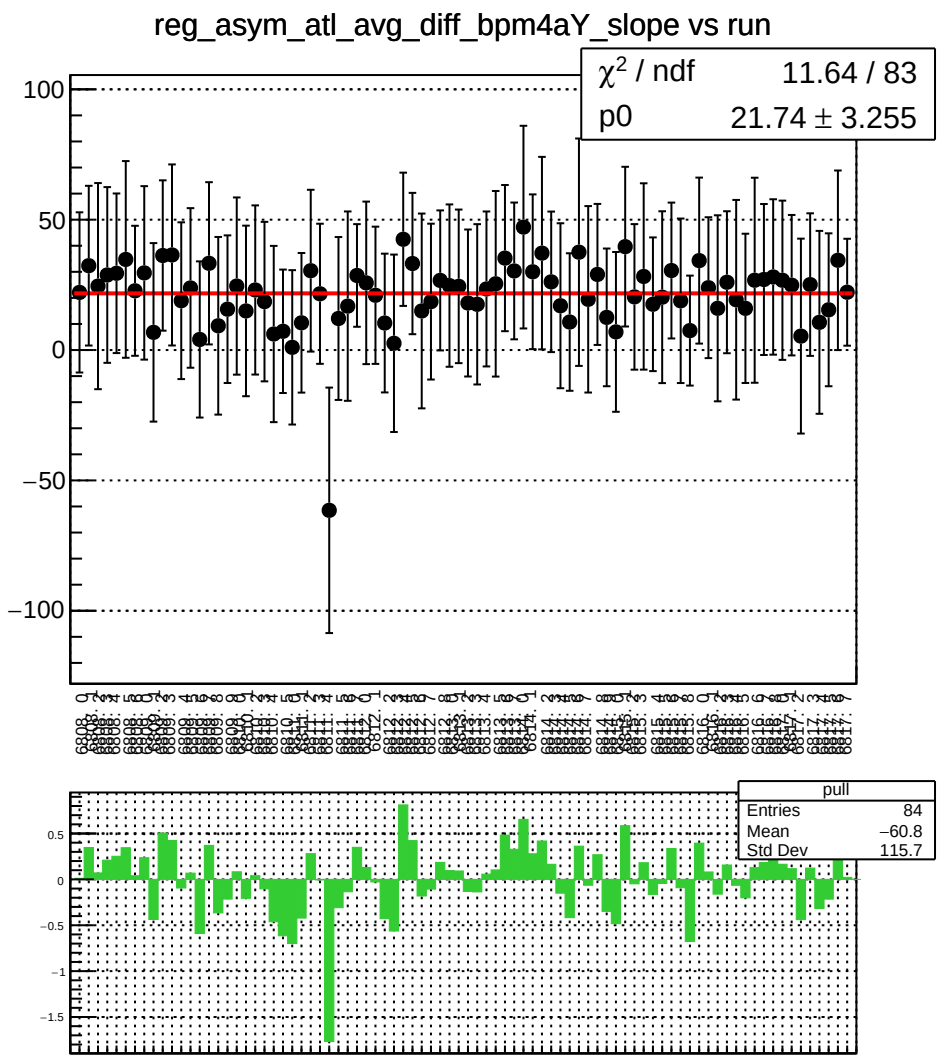

pull1D
Entries 84
Mean −0.006074
Std Dev 0.343
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

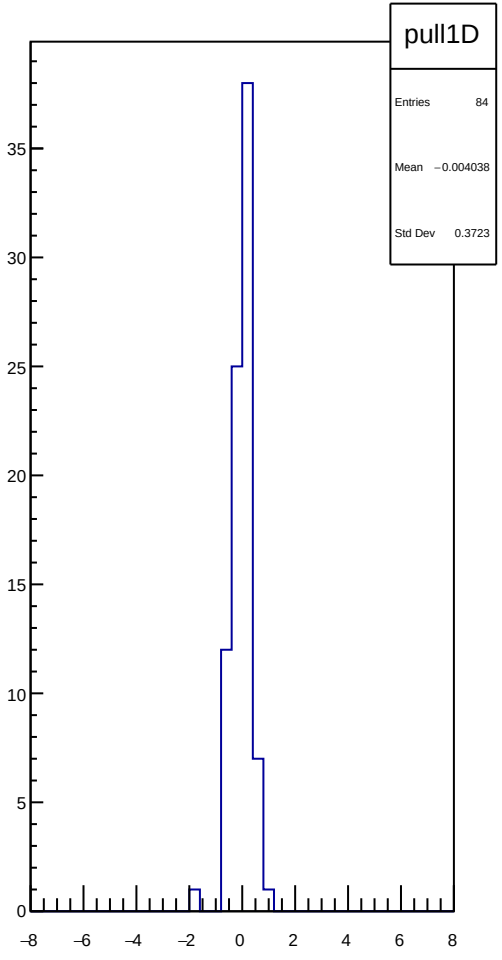

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 15.39 / 83
p0 −254.6 ± 0.343
pull
Entries 84
Mean 227.5
Std Dev 179.2

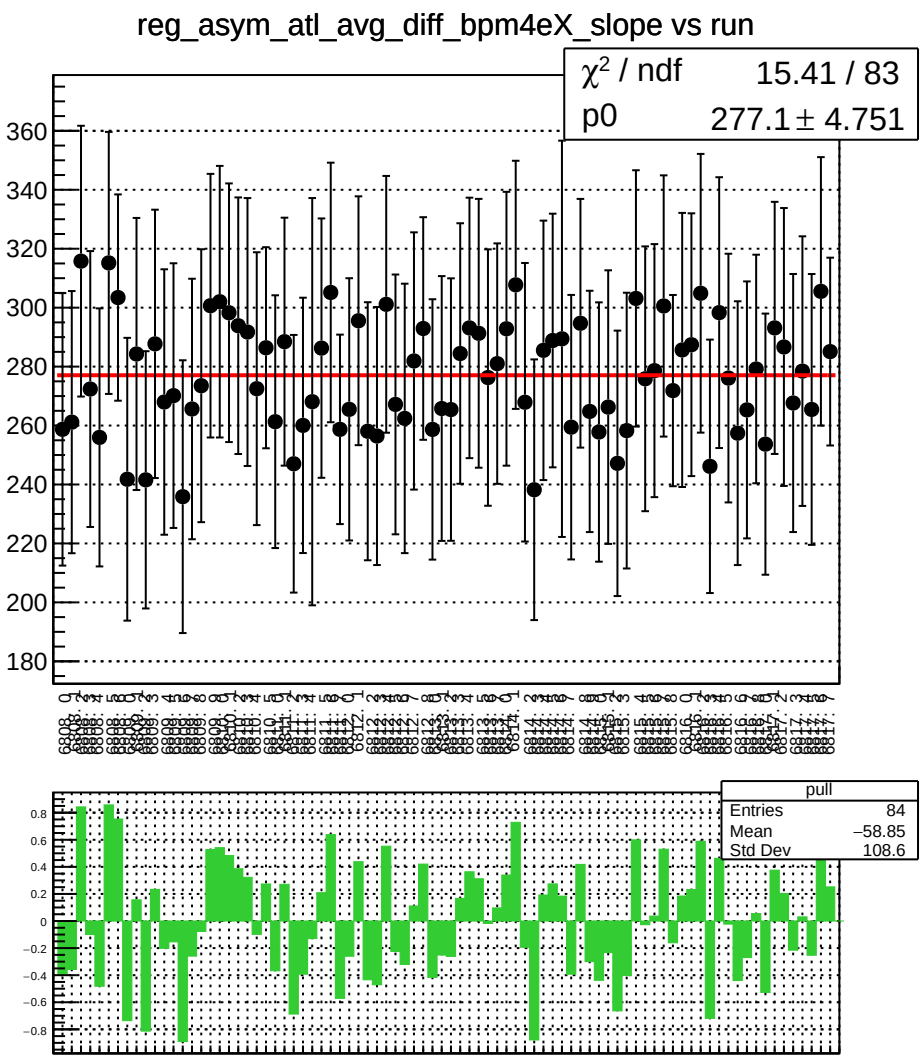

pull1D
Entries 84
Mean 0.00912
Std Dev 0.4279

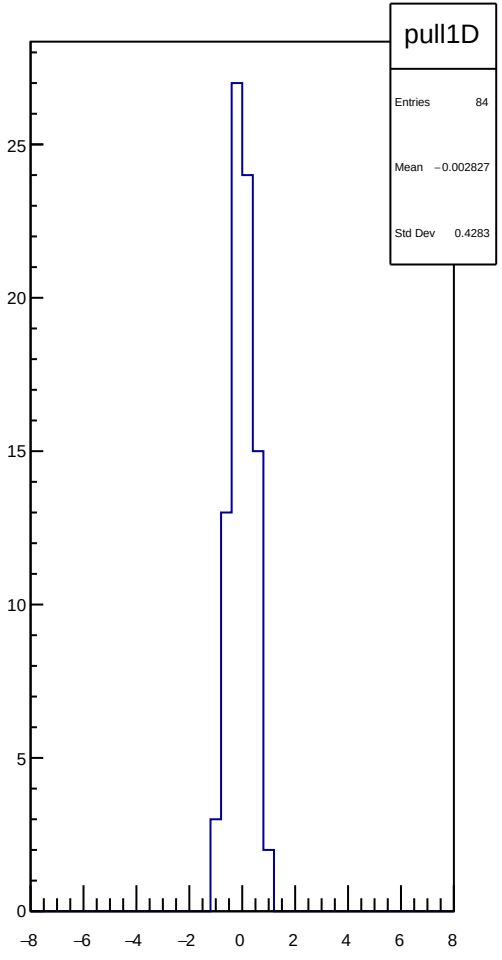

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 15.62 / 83
p0 −312.3 ± 5.081
pull
Entries 84
Mean 29.41
Std Dev 46.73

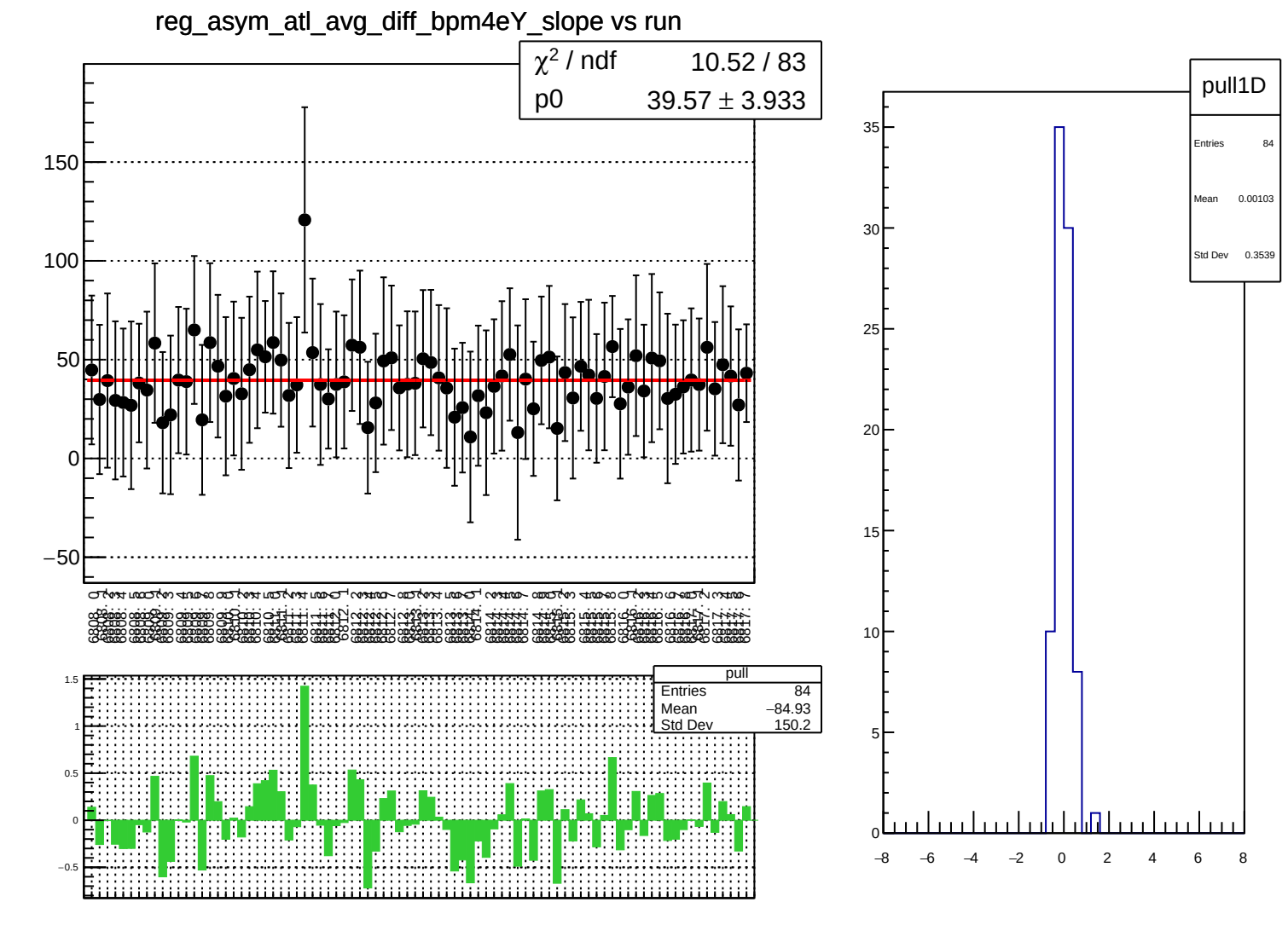

pull1D
Entries 84
Mean 0.002566
Std Dev 0.4312

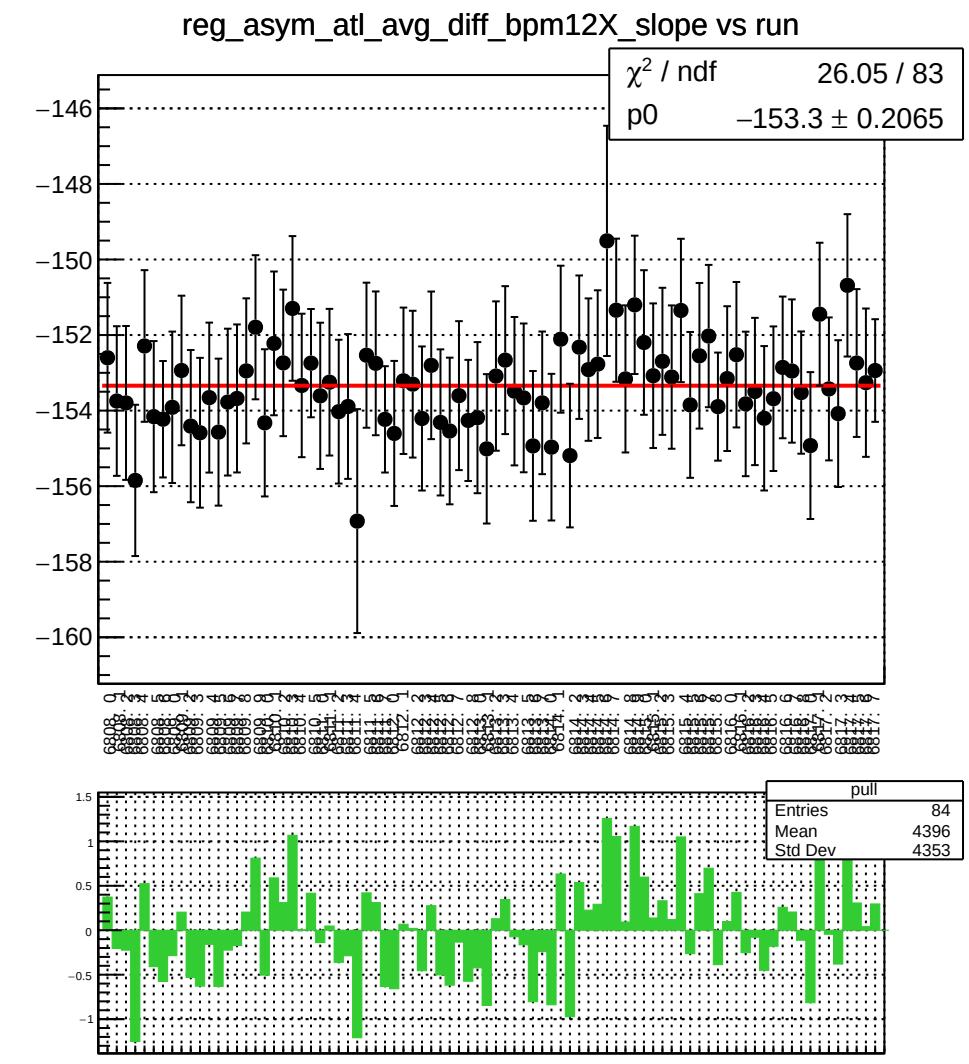

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.64 / 83
p0 21.74 ± 3.255
pull
Entries 84
Mean −60.8
Std Dev 115.7

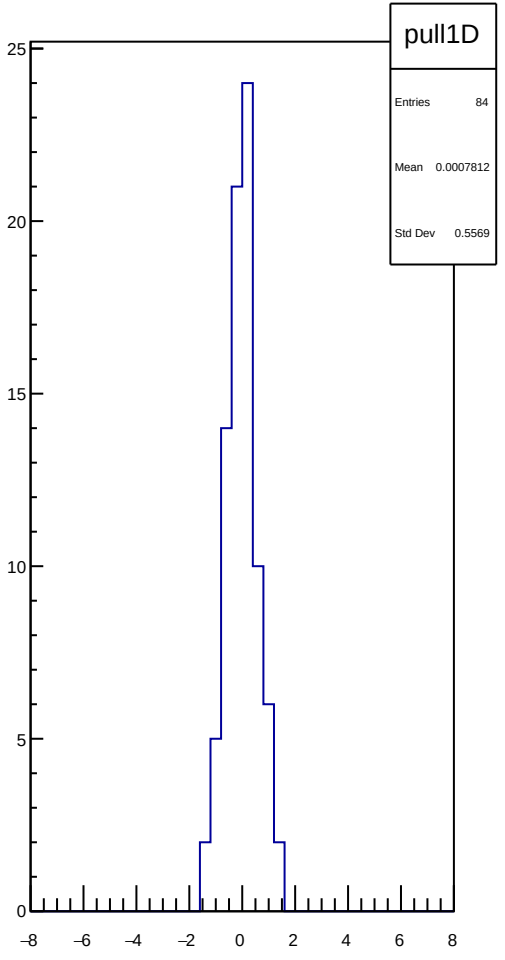

pull1D
Entries 84
Mean −0.004038
Std Dev 0.3723

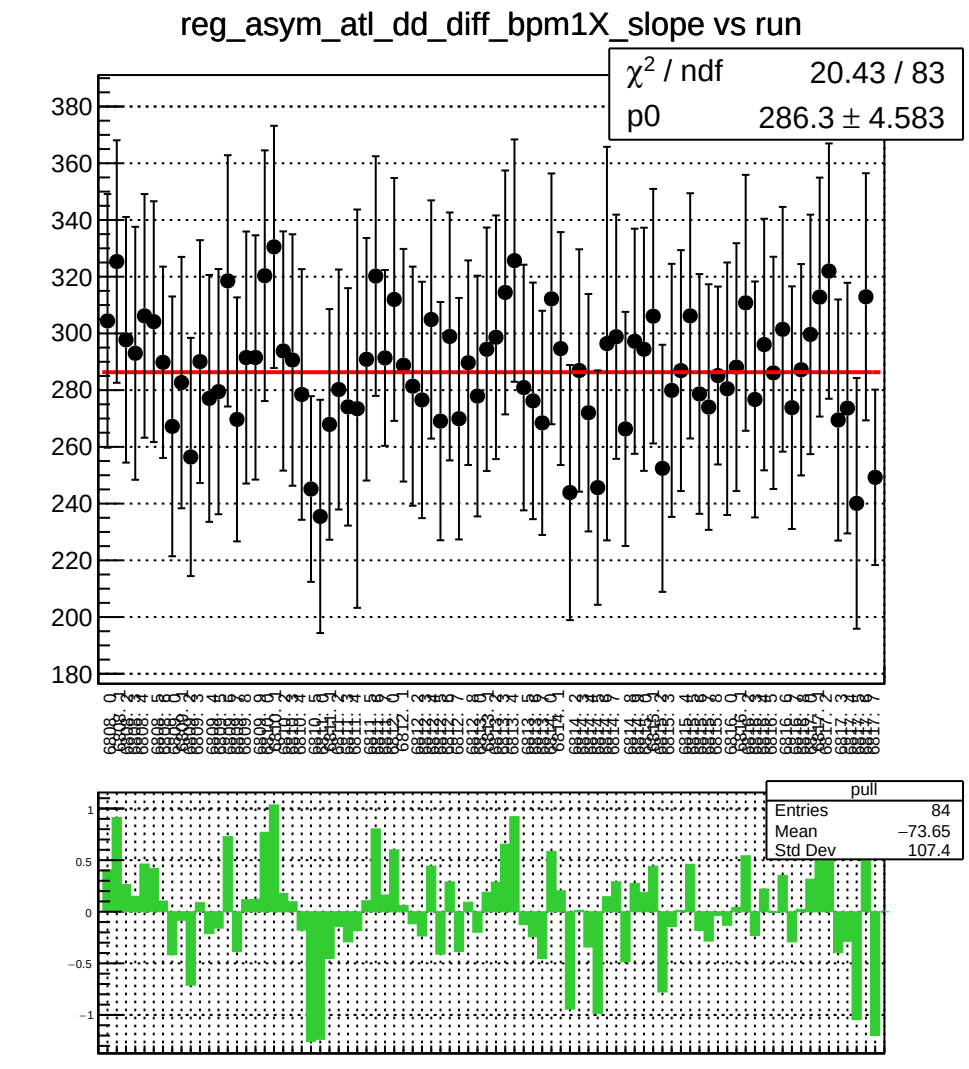

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.41 / 83
p0 277.1 ± 4.751
pull
Entries 84
Mean −58.85
Std Dev 108.6

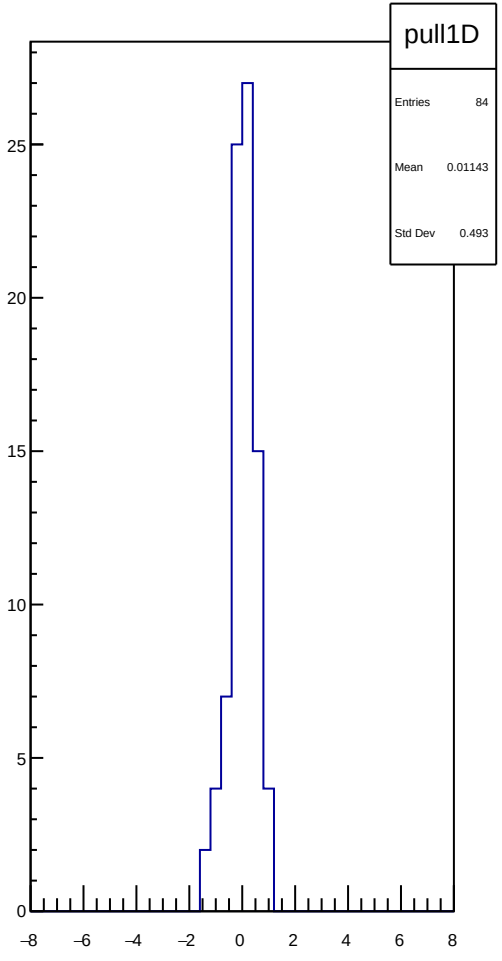

pull1D
Entries 84
Mean −0.002827
Std Dev 0.4283

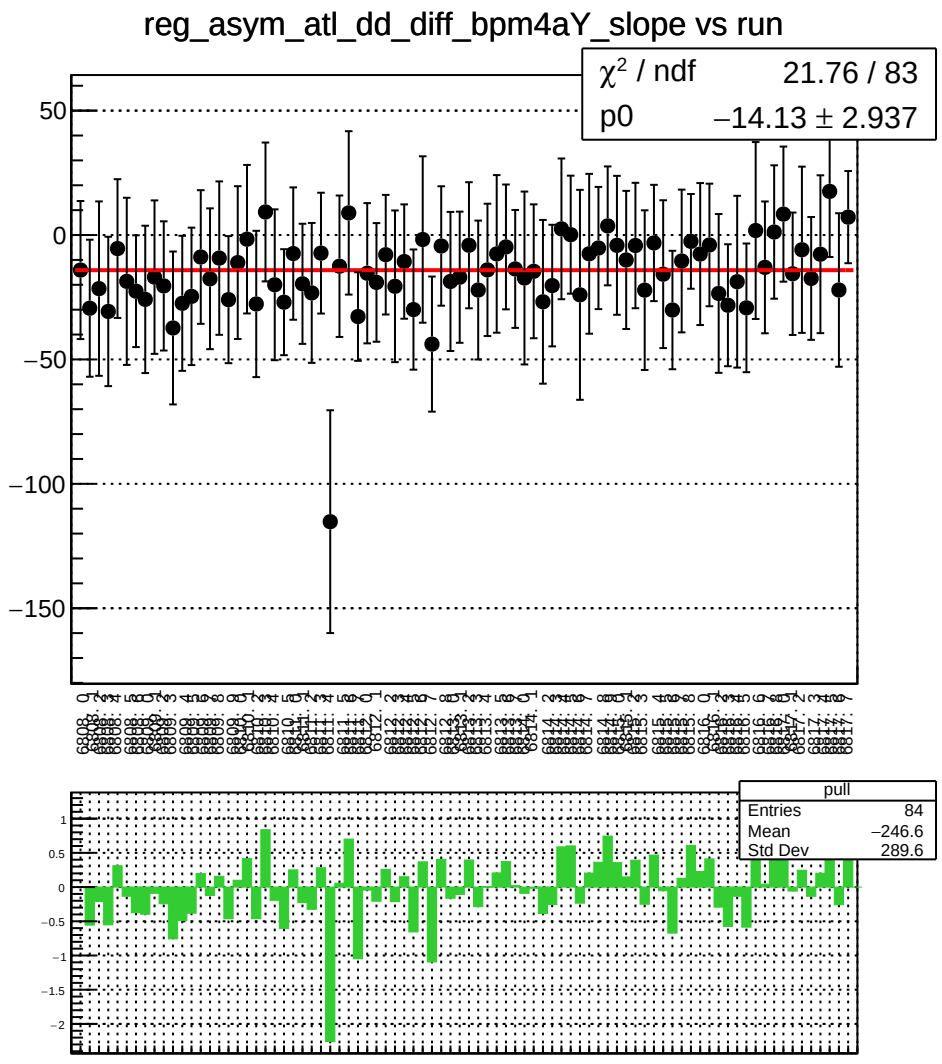

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.52 / 83
p0 39.57 ± 3.933
150
100
50
0
−50
pull
Entries 84
Mean −84.93
Std Dev 150.2
1.5
1
0.5
0
−0.5
pull1D
Entries 84
Mean 0.00103
Std Dev 0.3539
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

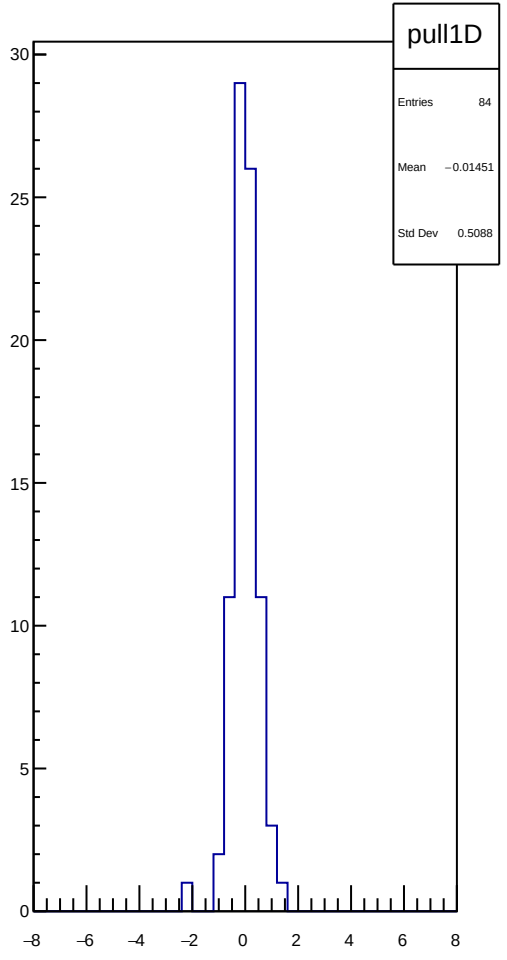

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 26.05 / 83
p0 −153.3 ± 0.2065
pull
Entries 84
Mean 4396
Std Dev 4353

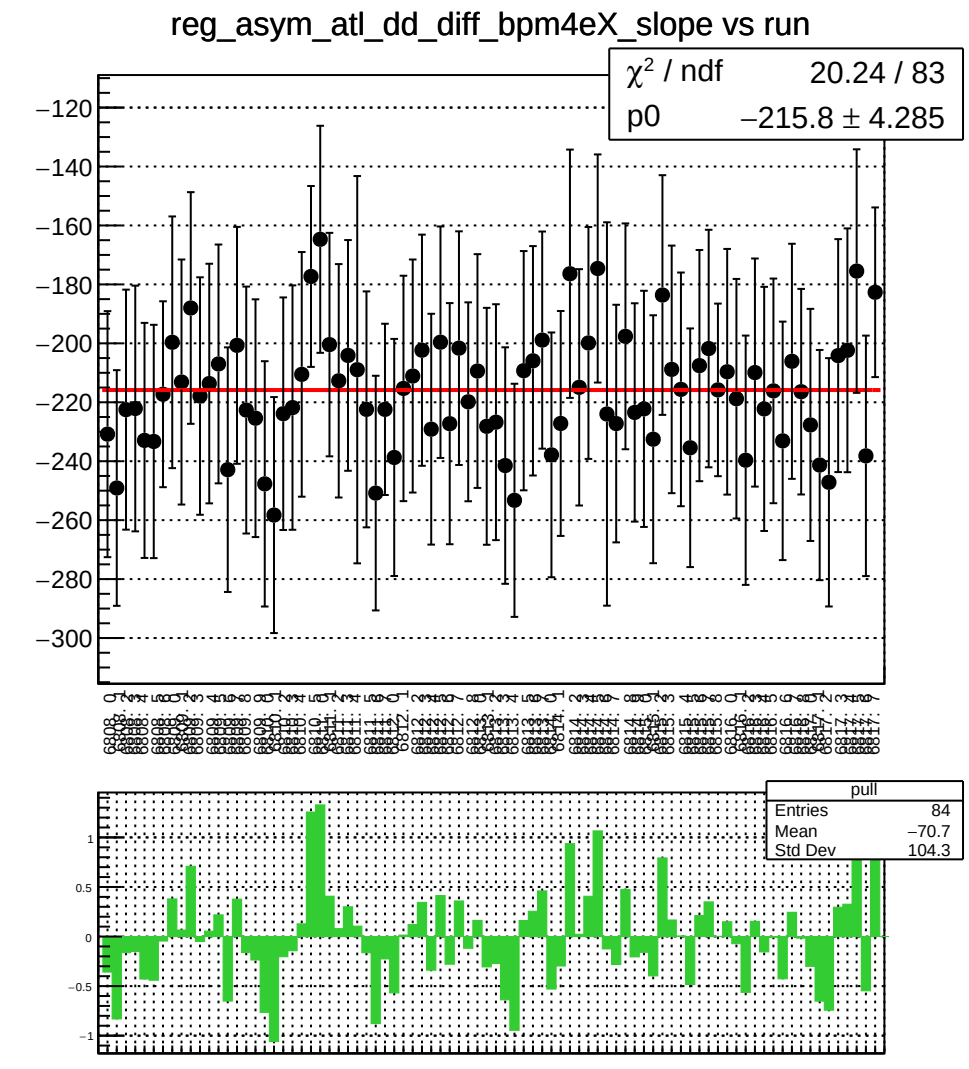

pull1D
Entries 84
Mean 0.0007812
Std Dev 0.5569

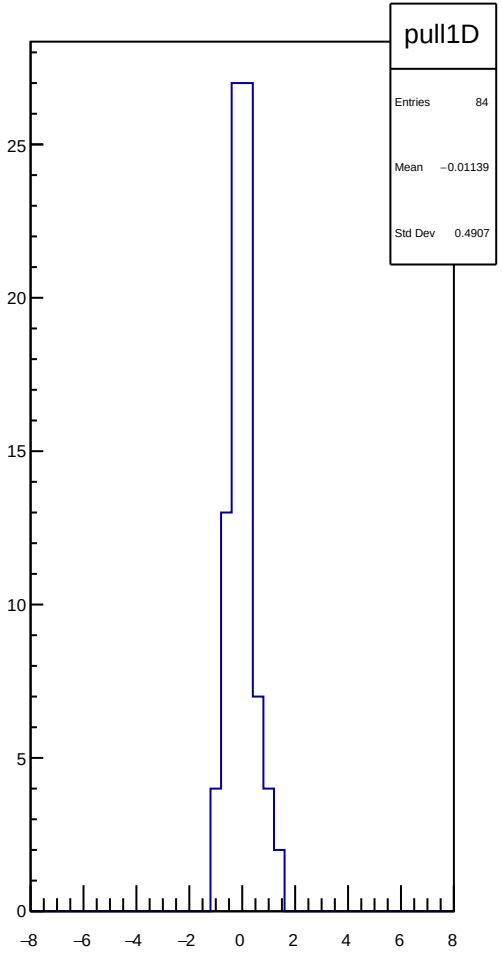

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 20.43 / 83
p0 286.3 ± 4.583
pull
Entries 84
Mean −73.65
Std Dev 107.4

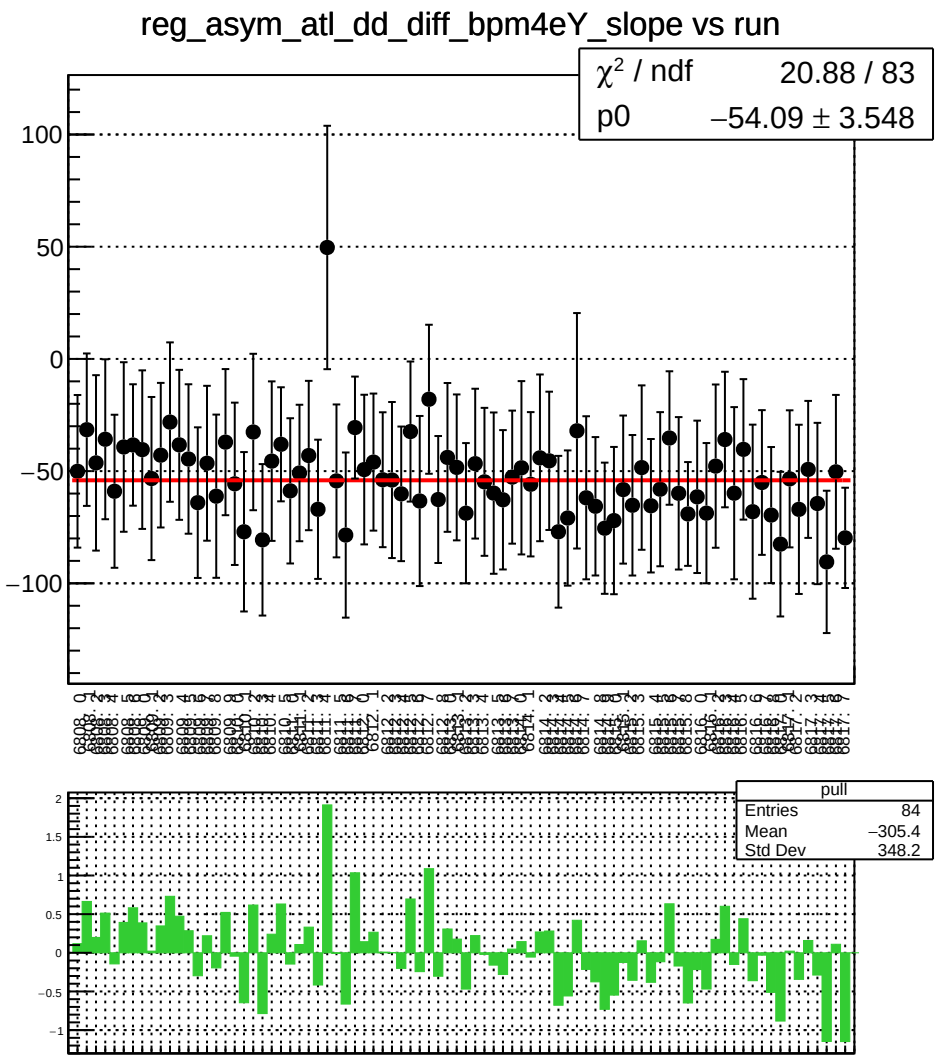

pull1D
Entries 84
Mean 0.01143
Std Dev 0.493

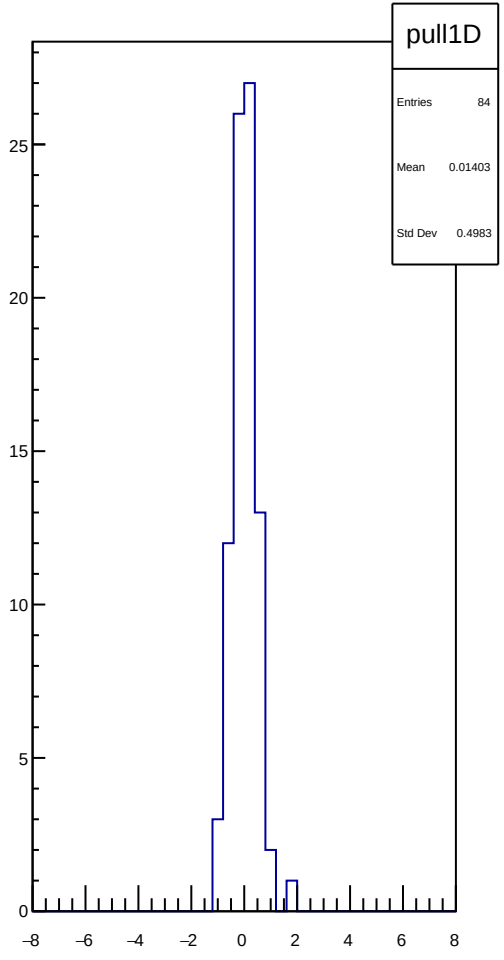

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.76 / 83
p0 −14.13 ± 2.937
50
0
−50
−100
−150
pull
Entries 84
Mean −246.6
Std Dev 289.6
1
0.5
0
−0.5
−1
−1.5
−2

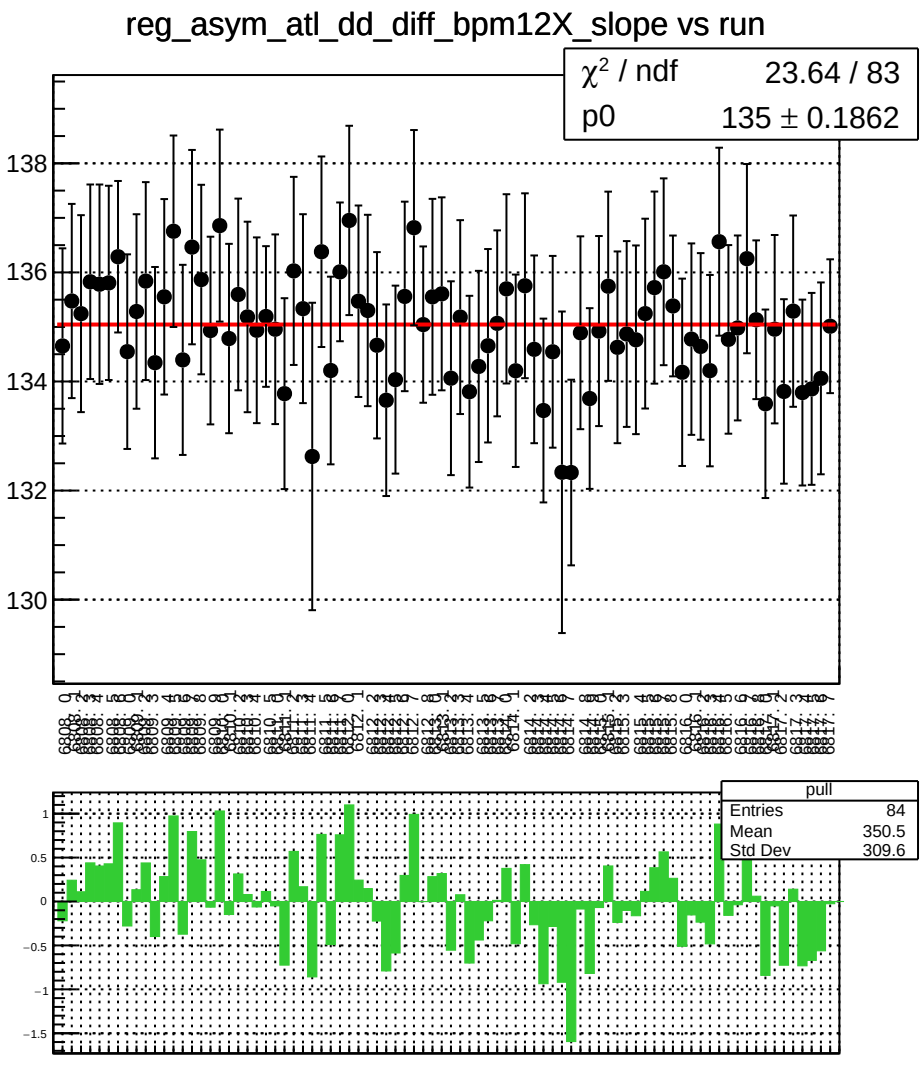

pull1D
Entries 84
Mean −0.01451
Std Dev 0.5088
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

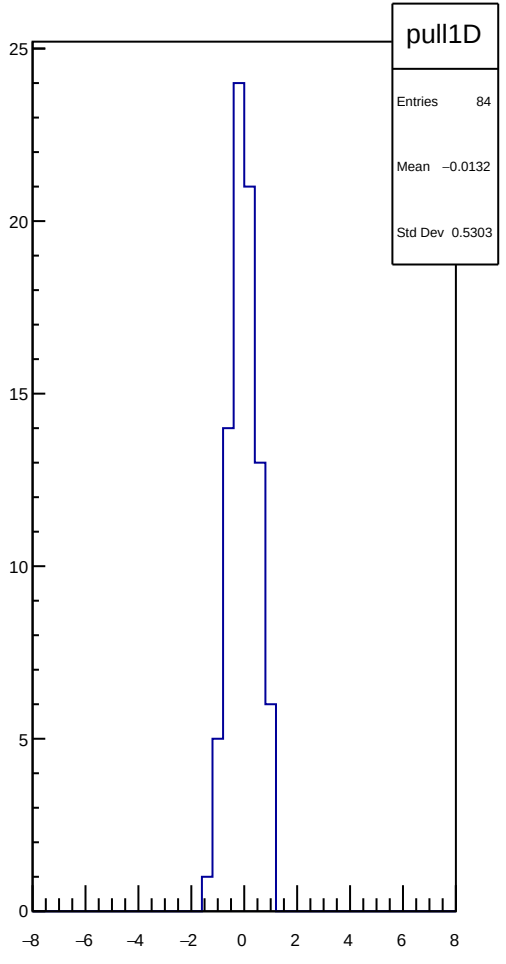

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.24 / 83
p0 −215.8 ± 4.285
pull
Entries 84
Mean −70.7
Std Dev 104.3

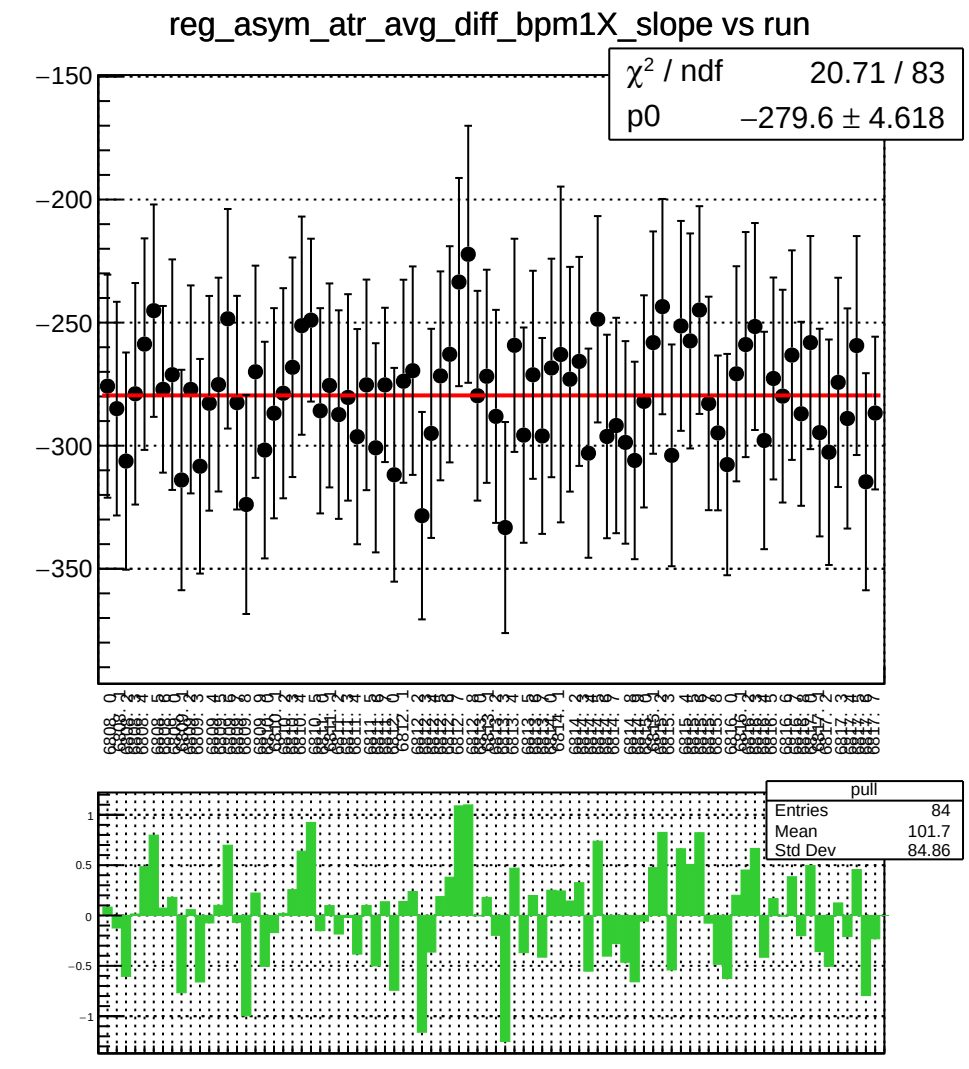

pull1D
Entries 84
Mean −0.01139
Std Dev 0.4907

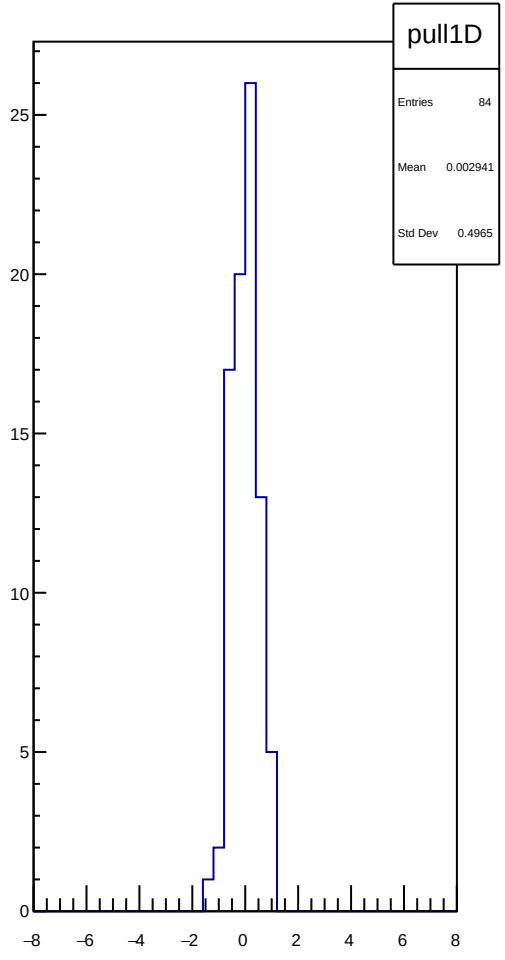

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.88 / 83
p0 −54.09 ± 3.548
100
50
0
−50
−100
pull
Entries 84
Mean −305.4
Std Dev 348.2
2
1.5
1
0.5
0
−0.5
−1

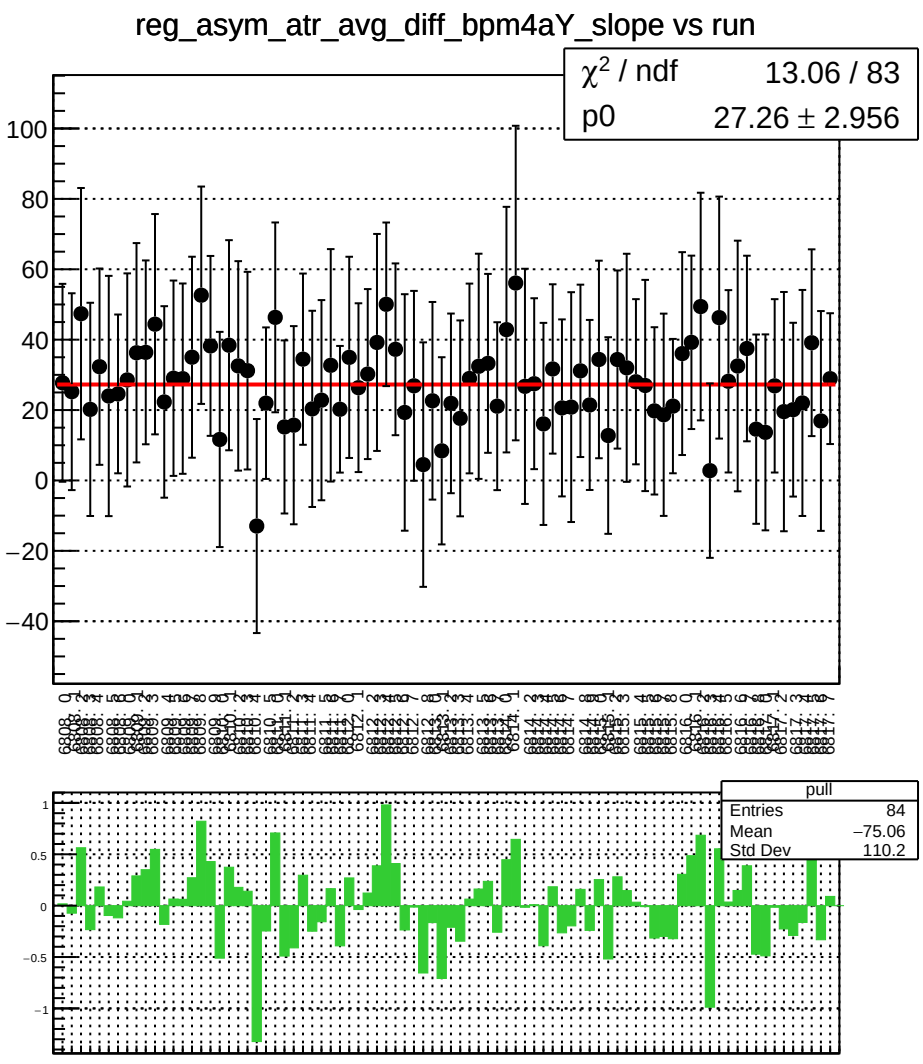

pull1D
Entries 84
Mean 0.01403
Std Dev 0.4983
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

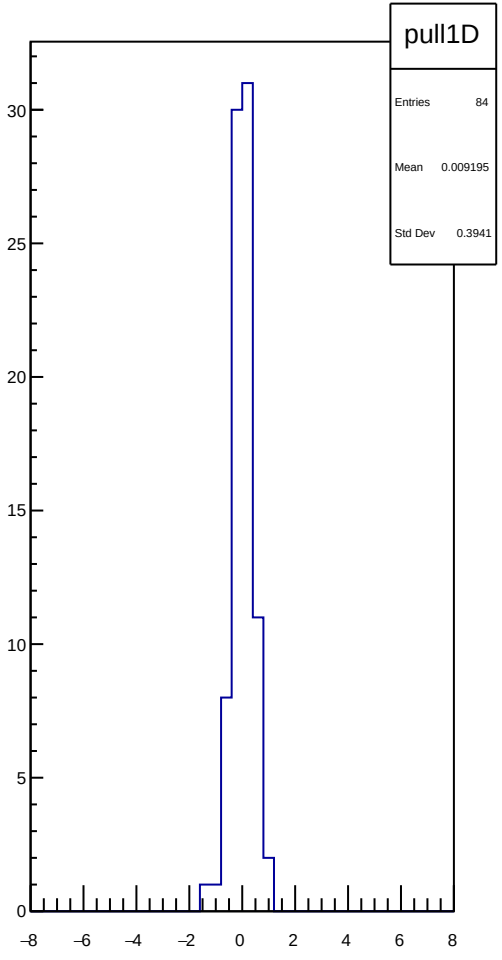

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 23.64 / 83
p0 135 ± 0.1862
138
136
134
132
130
pull
Entries 84
Mean 350.5
Std Dev 309.6
1
0.5
0
−0.5
−1
−1.5

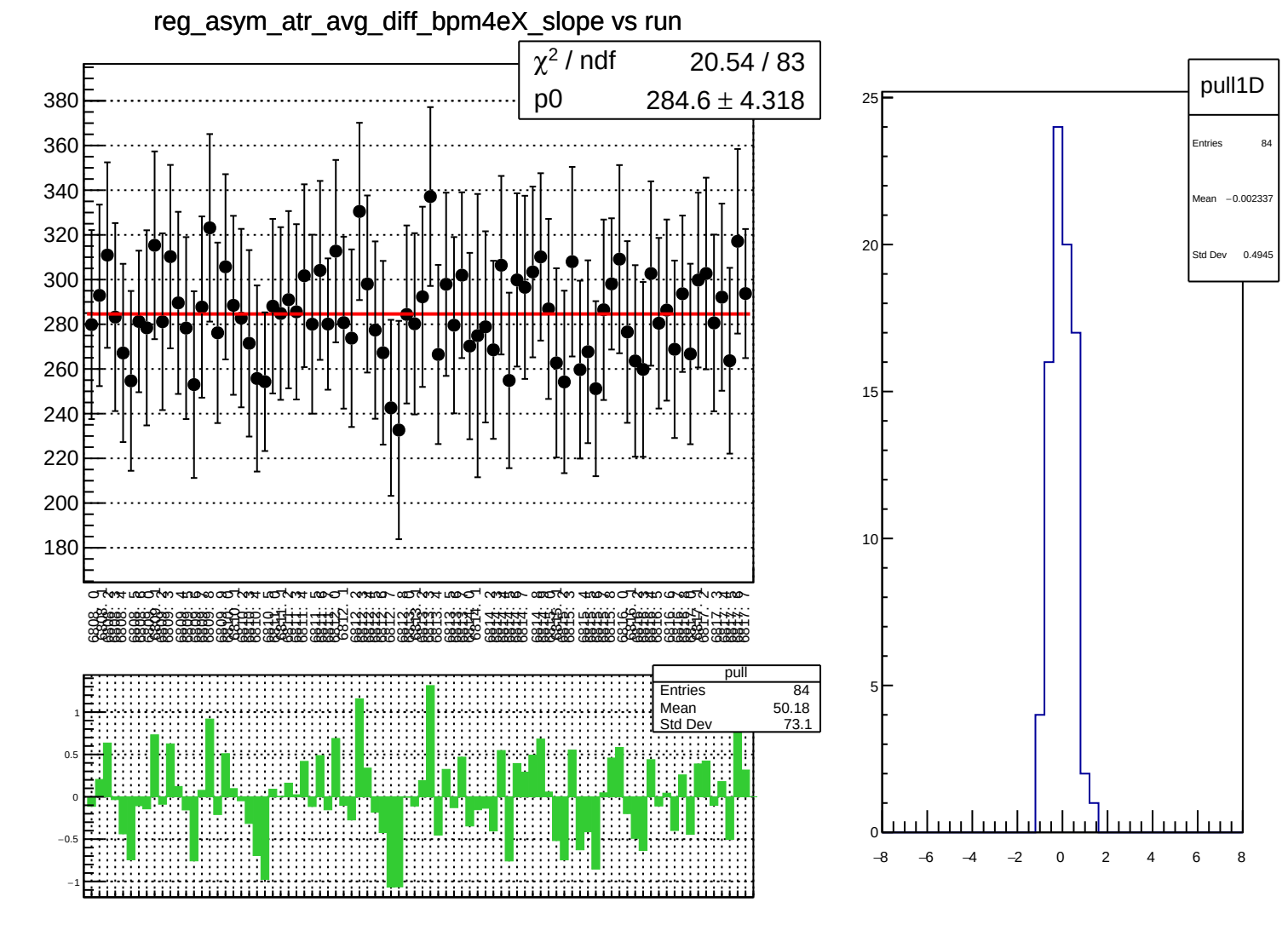

pull1D
Entries 84
Mean −0.0132
Std Dev 0.5303
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

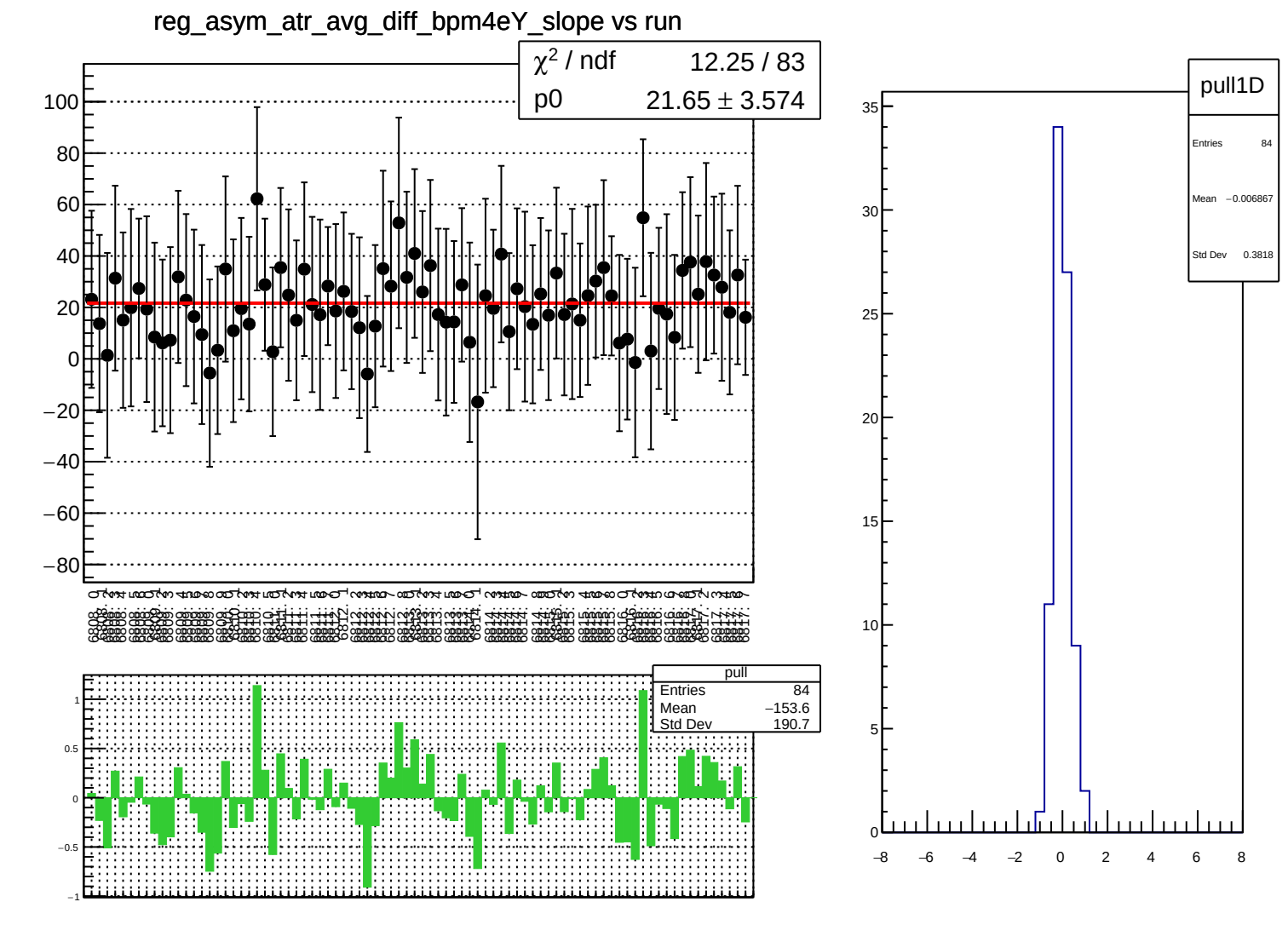

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 20.71 / 83
p0 −279.6 ± 4.618
−150
−200
−250
−300
−350
pull
Entries 84
Mean 101.7
Std Dev 84.86
1
0.5
0
−0.5
−1

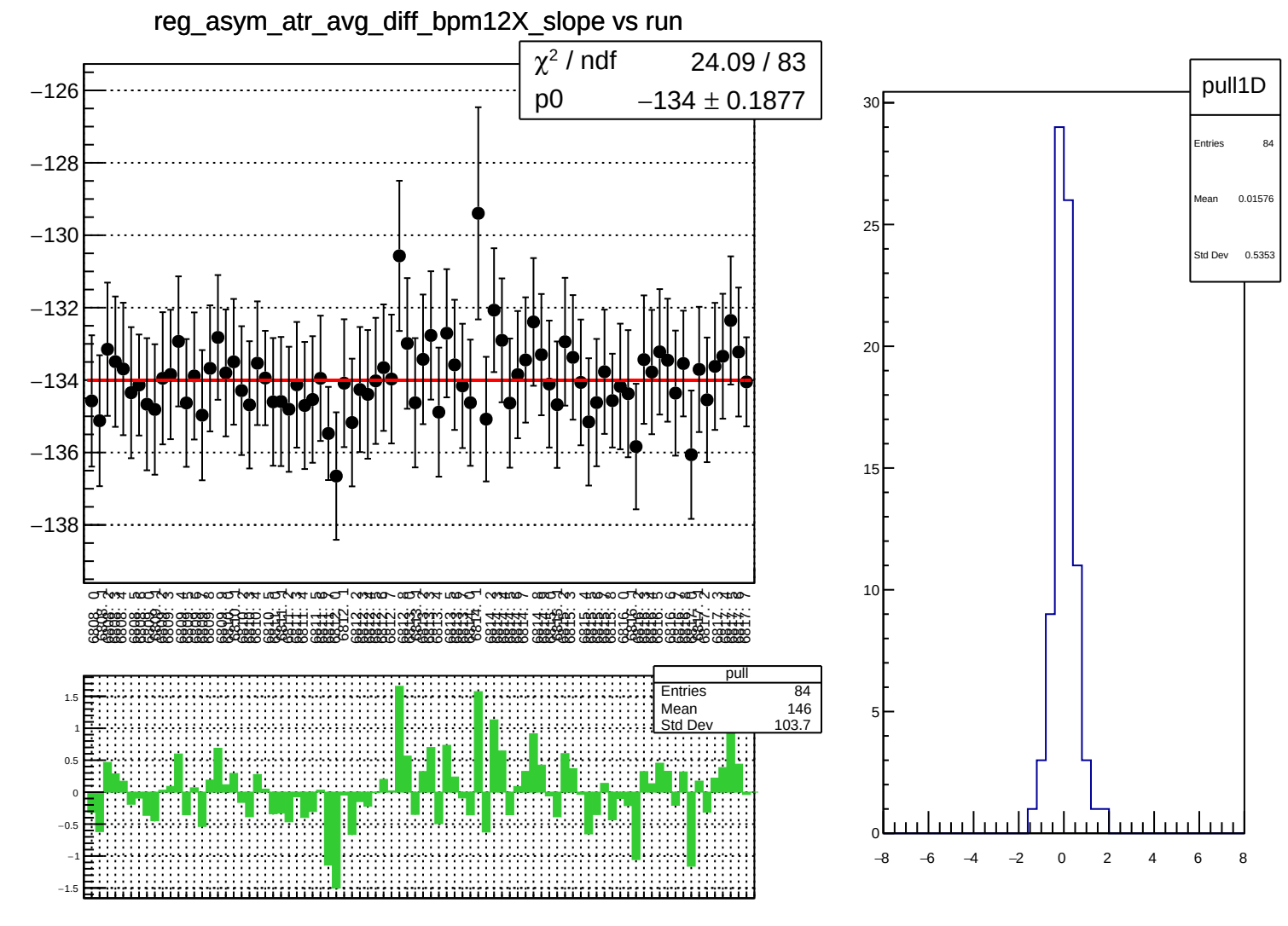

pull1D
Entries 84
Mean 0.002941
Std Dev 0.4965
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

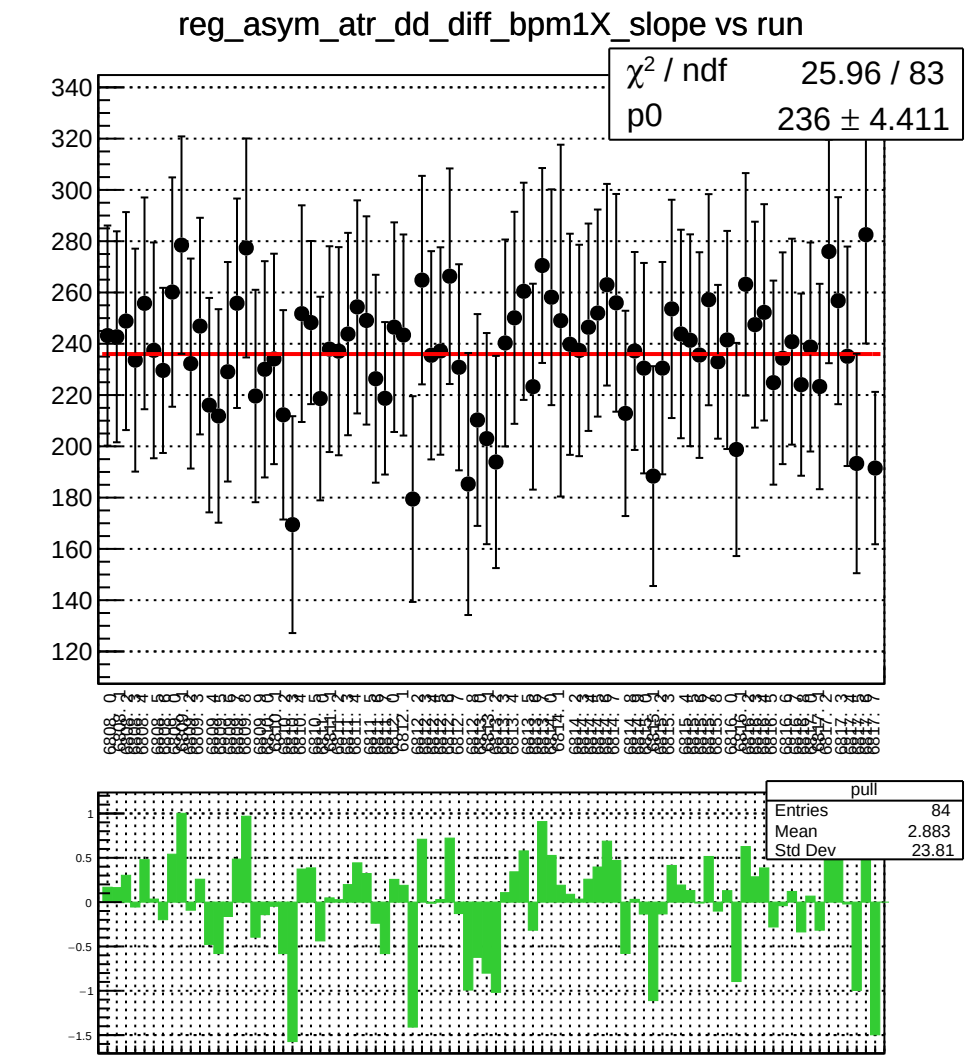

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.06 / 83
p0 27.26 ± 2.956
pull
Entries 84
Mean −75.06
Std Dev 110.2

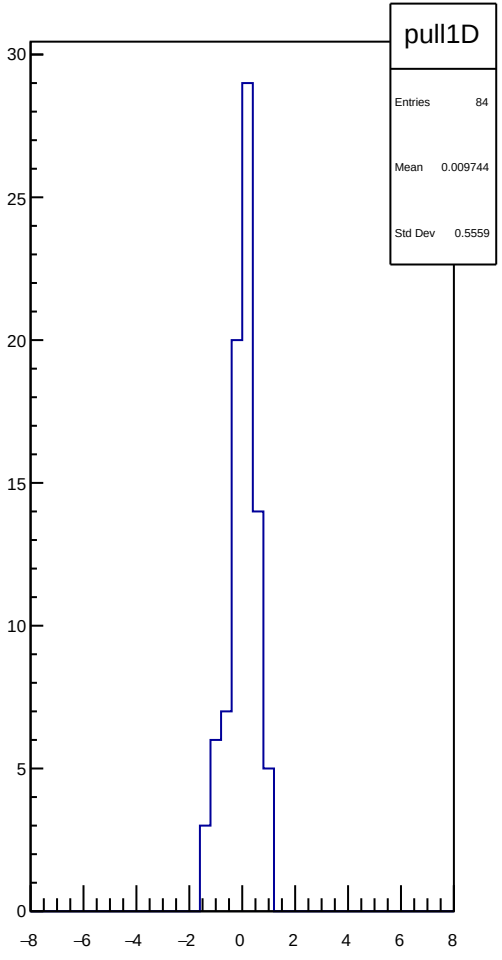

pull1D
Entries 84
Mean 0.009195
Std Dev 0.3941

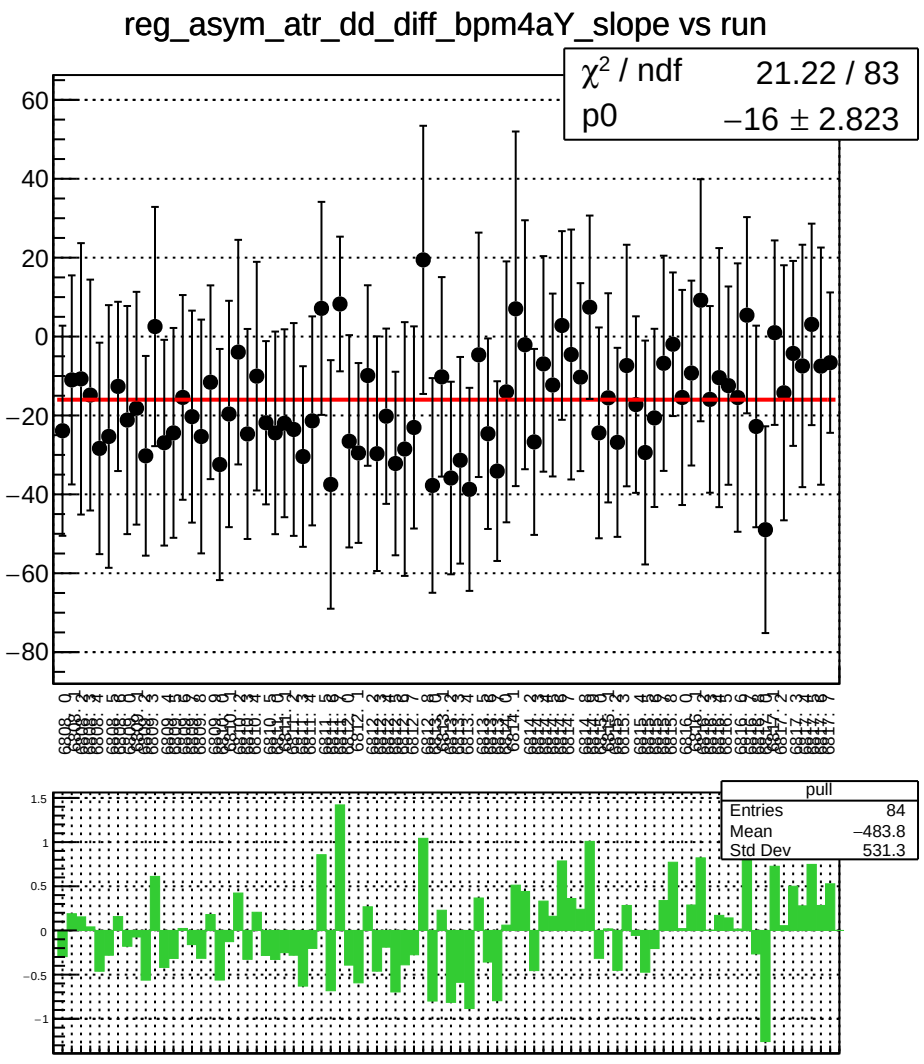

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.54 / 83
p0 284.6 ± 4.318
pull
Entries 84
Mean 50.18
Std Dev 73.1
pull1D
Entries 84
Mean −0.002337
Std Dev 0.4945

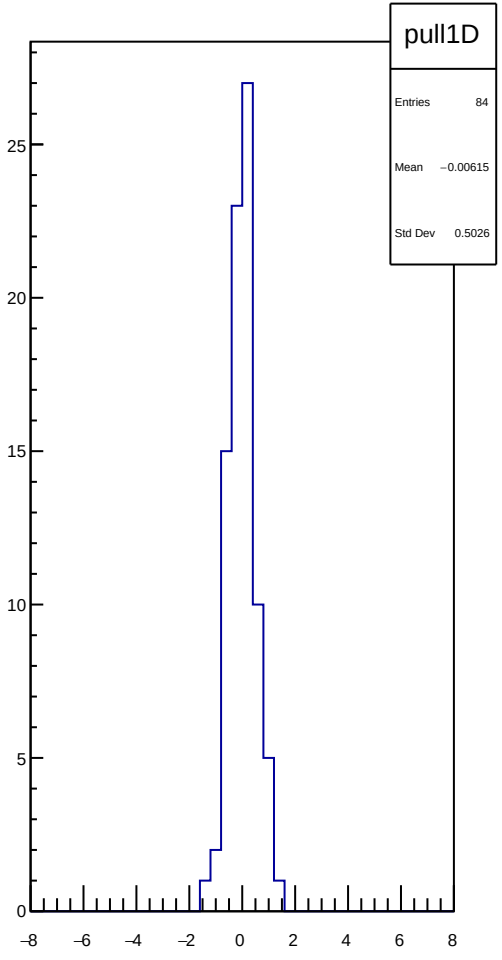

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.25 / 83
p0 21.65 ± 3.574
pull
Entries 84
Mean −153.6
Std Dev 190.7
pull1D
Entries 84
Mean −0.006867
Std Dev 0.3818

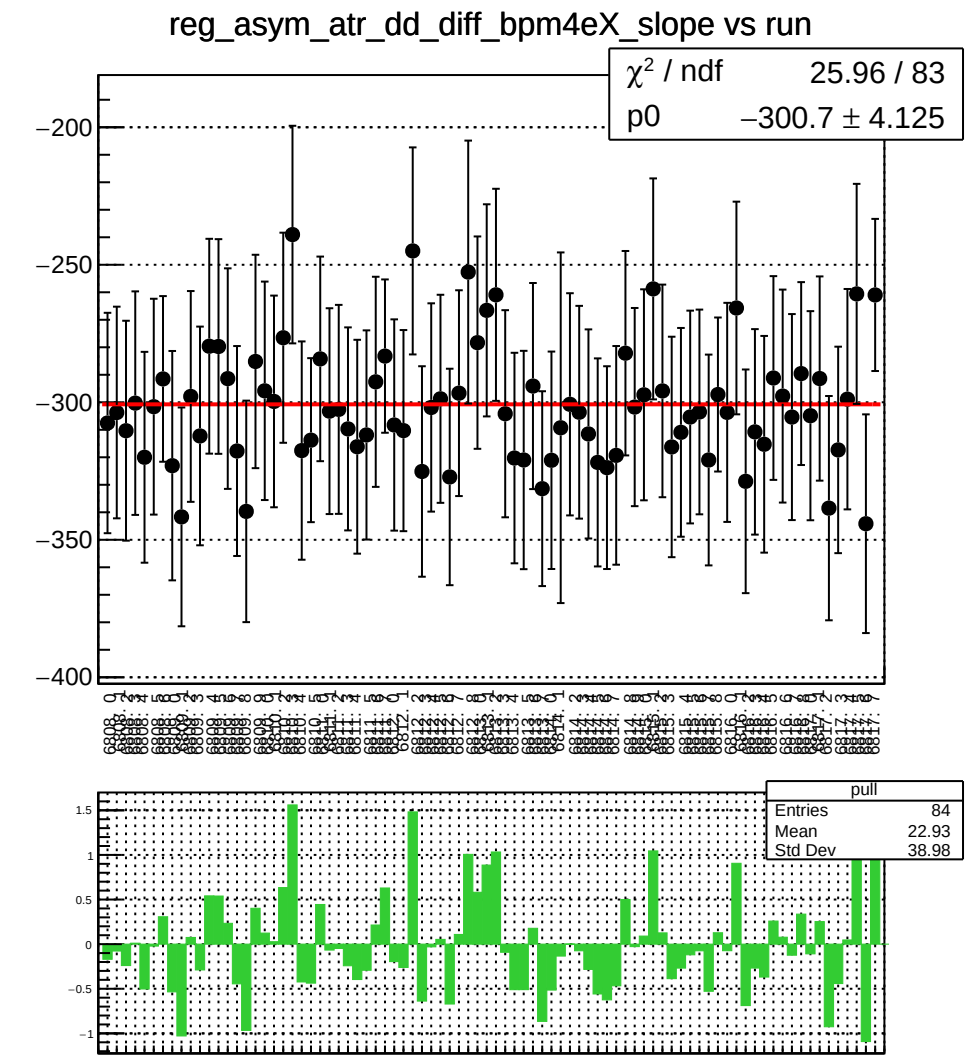

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 24.09 / 83
p0 −134 ± 0.1877
−126
−128
−130
−132
−134
−136
−138
pull
Entries 84
Mean 146
Std Dev 103.7
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 84
Mean 0.01576
Std Dev 0.5353
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

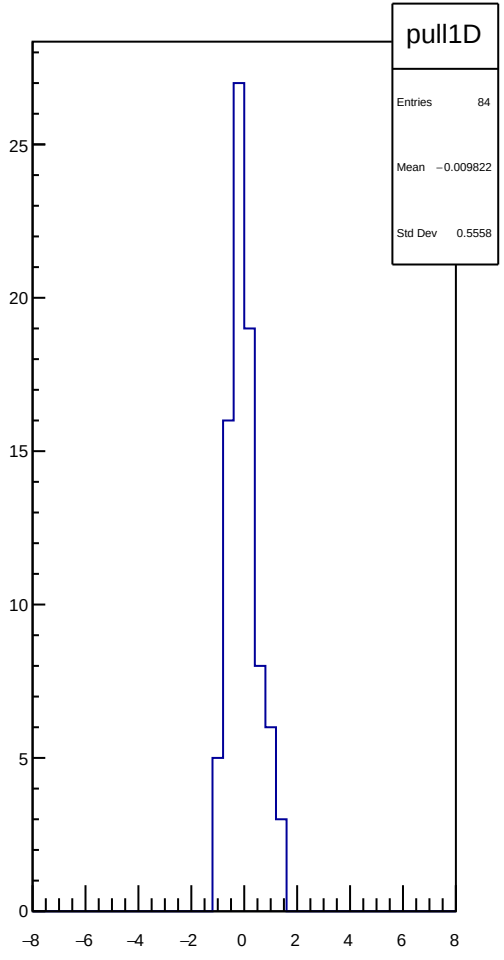

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 25.96 / 83
p0 236 ± 4.411
pull
Entries 84
Mean 2.883
Std Dev 23.81

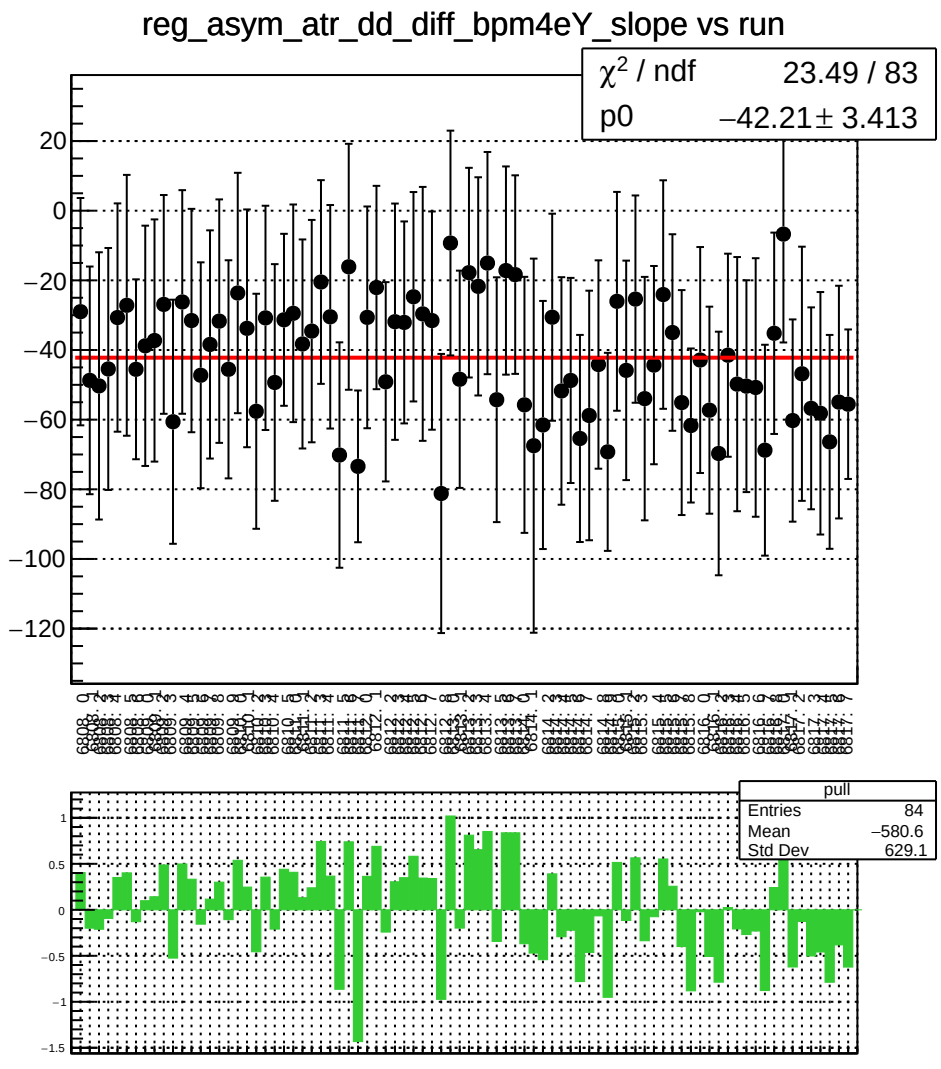

pull1D
Entries 84
Mean 0.009744
Std Dev 0.5559

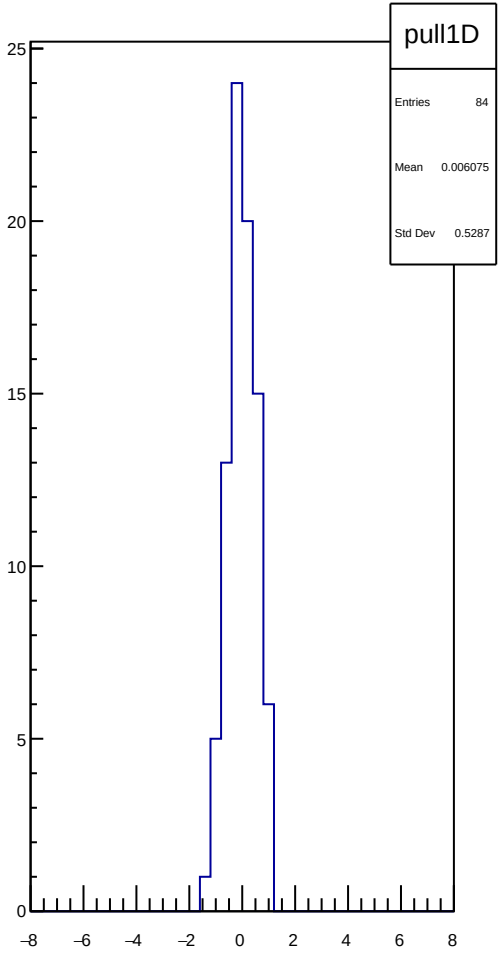

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.22 / 83
p0 −16 ± 2.823
pull
Entries 84
Mean −483.8
Std Dev 531.3

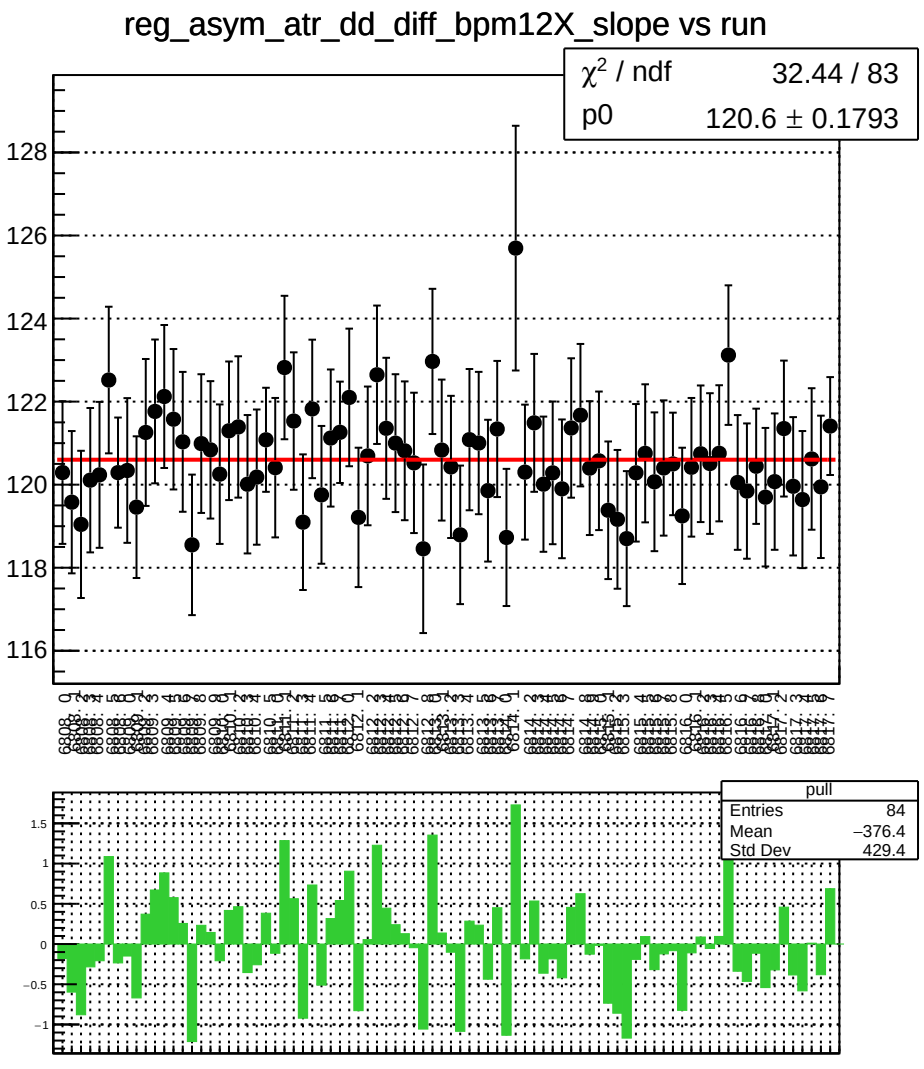

pull1D
Entries 84
Mean −0.00615
Std Dev 0.5026

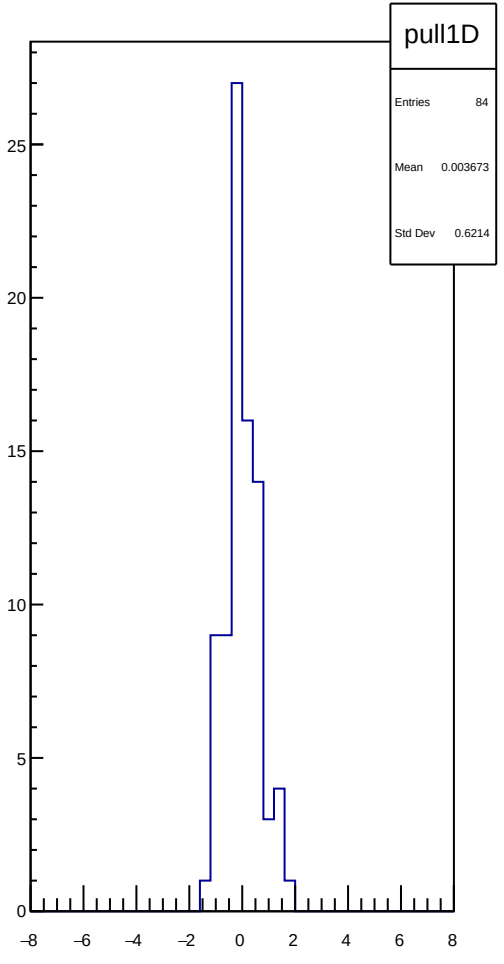

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.96 / 83
p0 −300.7 ± 4.125
−200
−250
−300
−350
−400
pull
Entries 84
Mean 22.93
Std Dev 38.98
1.5
1
0.5
0
−0.5
−1

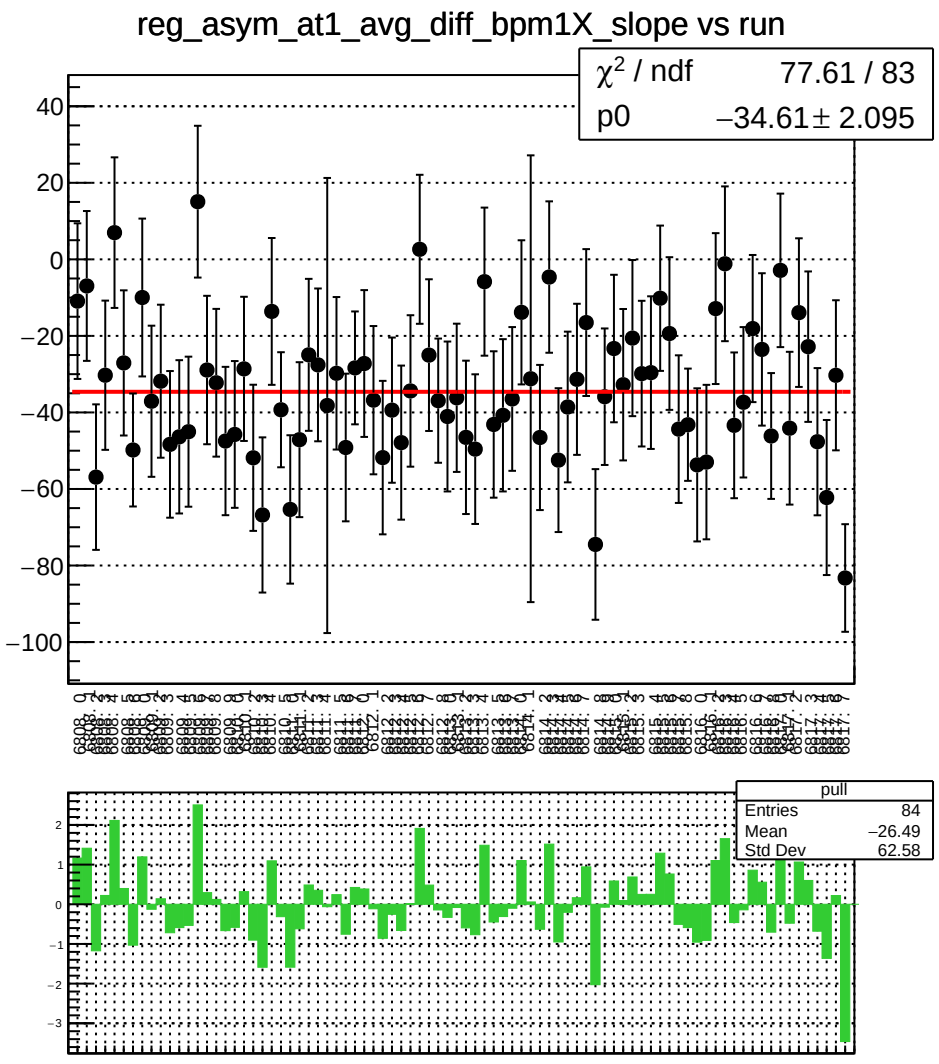

pull1D
Entries 84
Mean −0.009822
Std Dev 0.5558
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

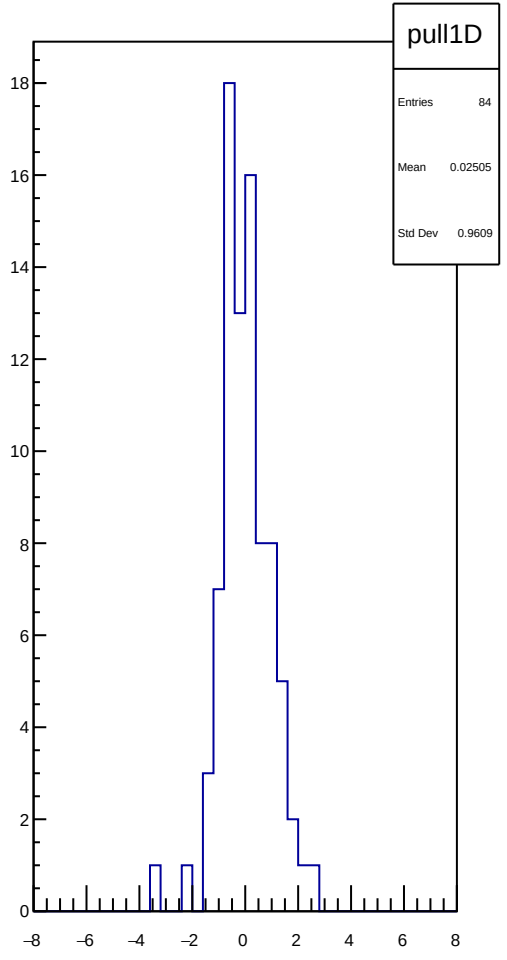

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.49 / 83
p0 −42.21 ± 3.413
pull
Entries 84
Mean −580.6
Std Dev 629.1

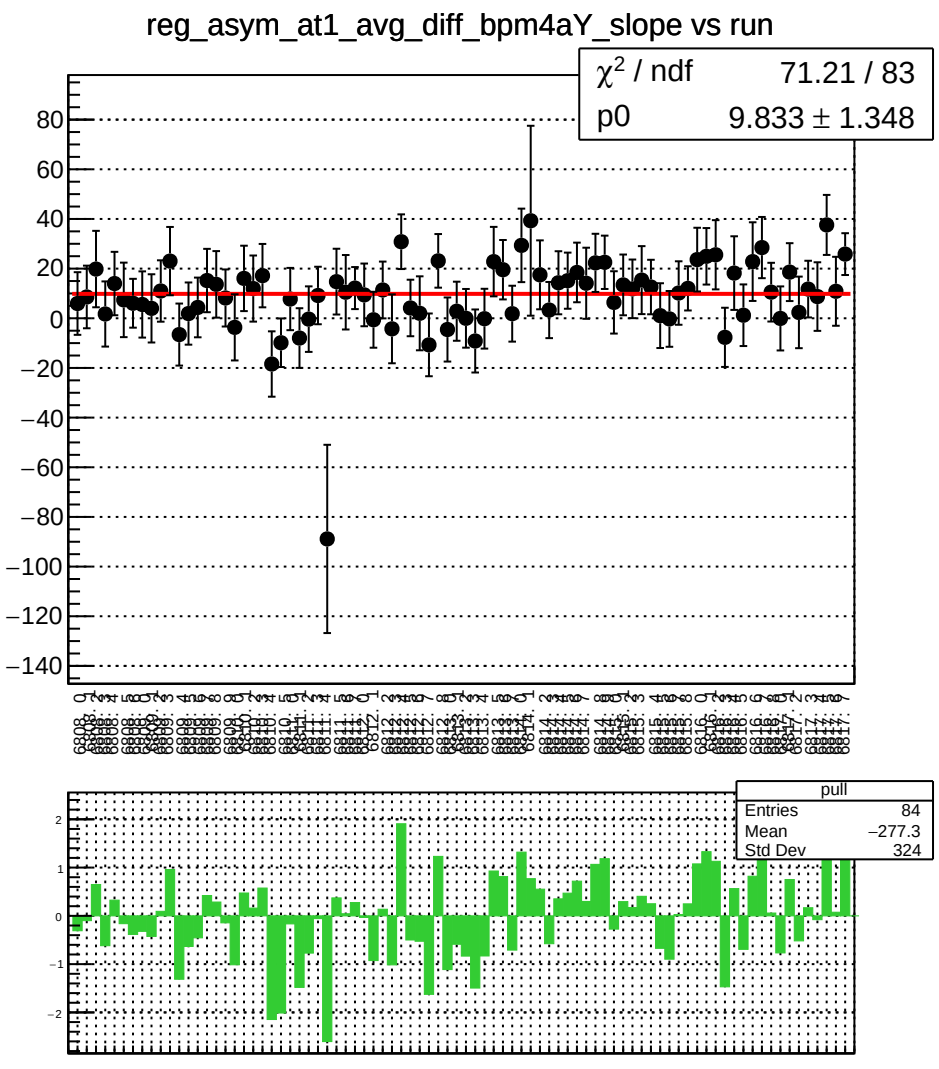

pull1D
Entries 84
Mean 0.006075
Std Dev 0.5287

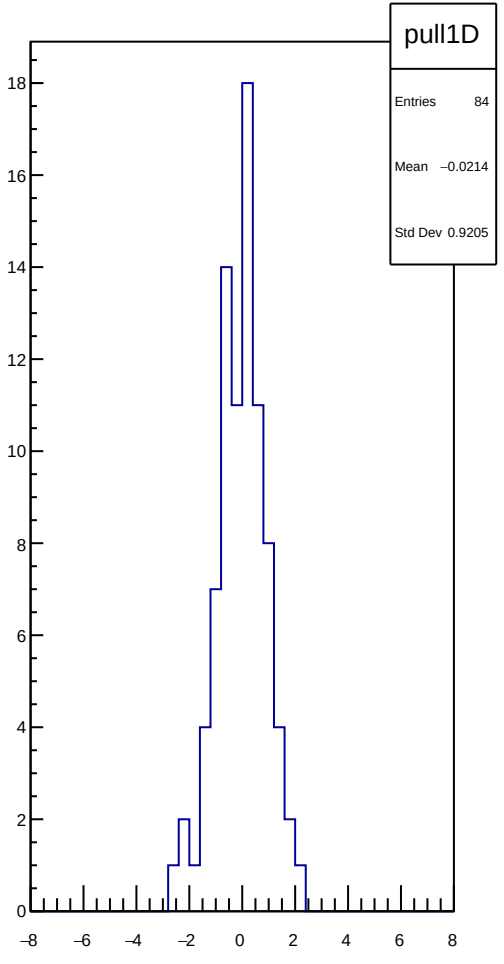

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 32.44 / 83
p0 120.6 ± 0.1793
128
126
124
122
120
118
116
pull
Entries 84
Mean −376.4
Std Dev 429.4
1.5
1
0.5
0
−0.5
−1

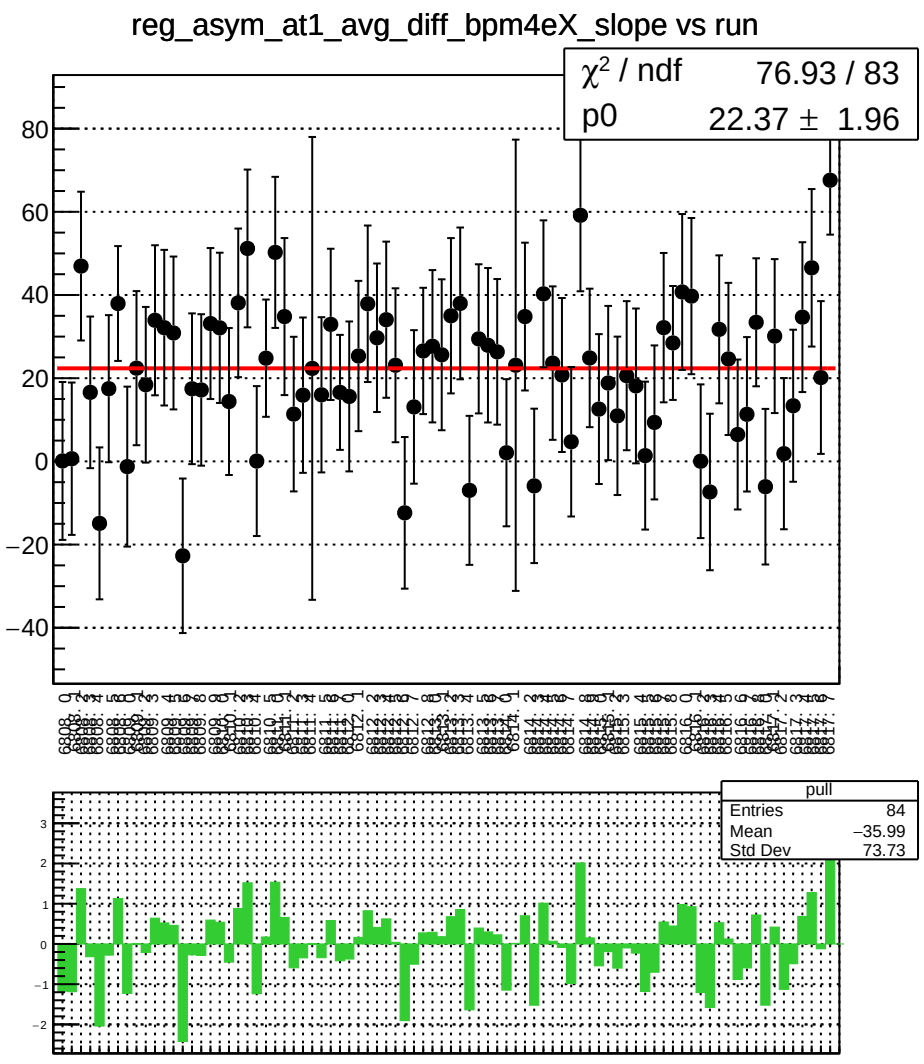

pull1D
Entries 84
Mean 0.003673
Std Dev 0.6214
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

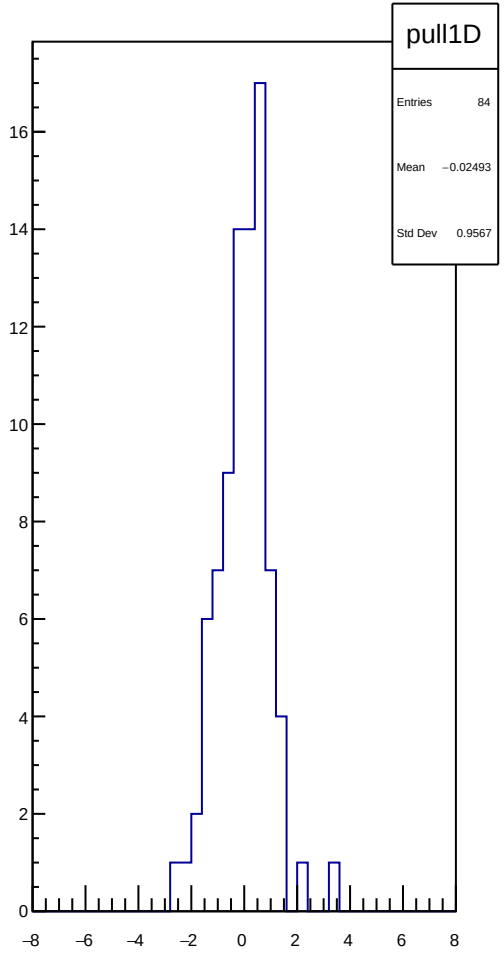

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 77.61 / 83
p0 −34.61 ± 2.095
pull
Entries 84
Mean −26.49
Std Dev 62.58

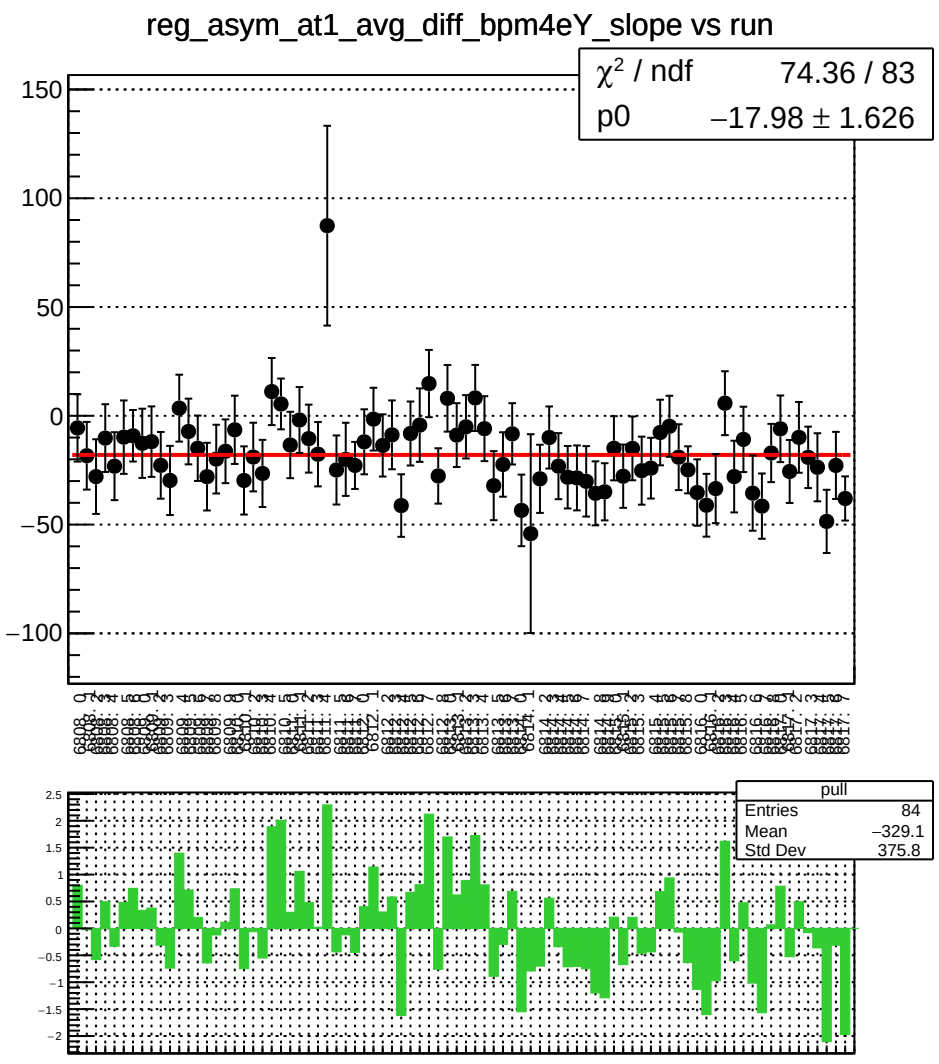

pull1D
Entries 84
Mean 0.02505
Std Dev 0.9609

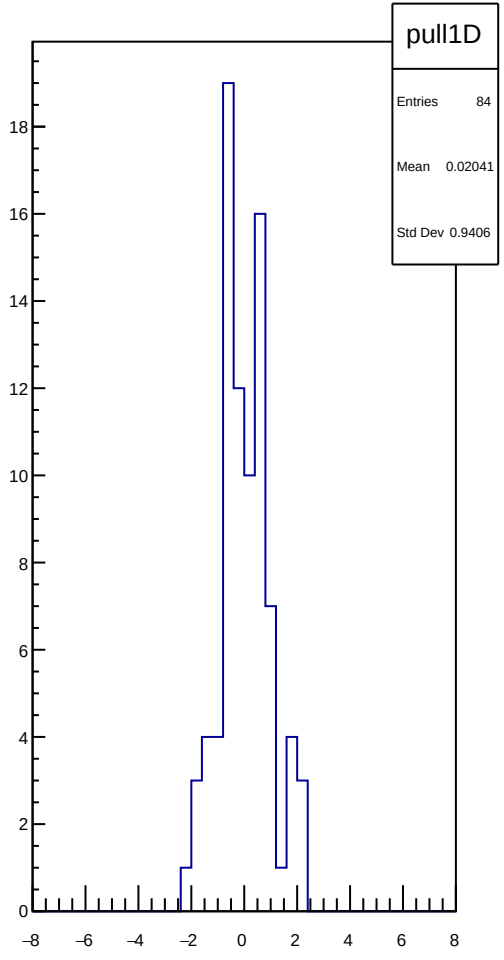

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 71.21 / 83
p0 9.833 ± 1.348
pull
Entries 84
Mean −277.3
Std Dev 324

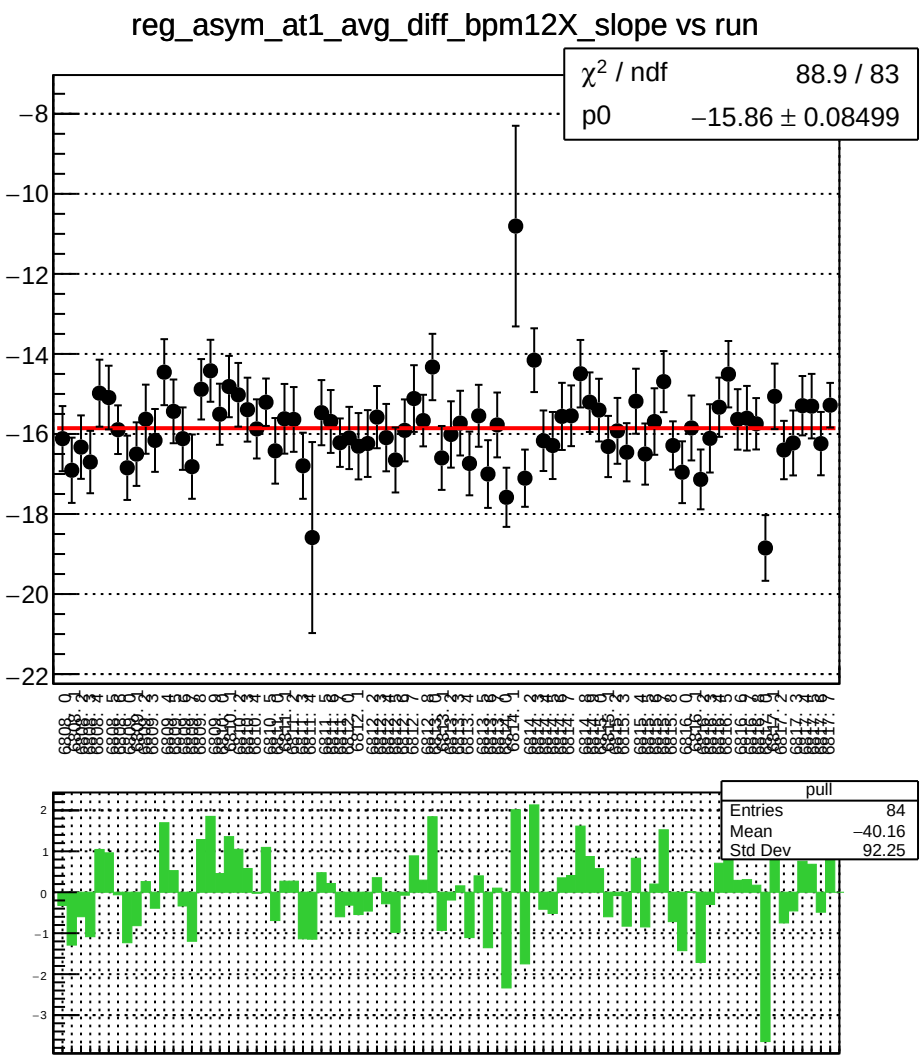

pull1D
Entries 84
Mean −0.0214
Std Dev 0.9205

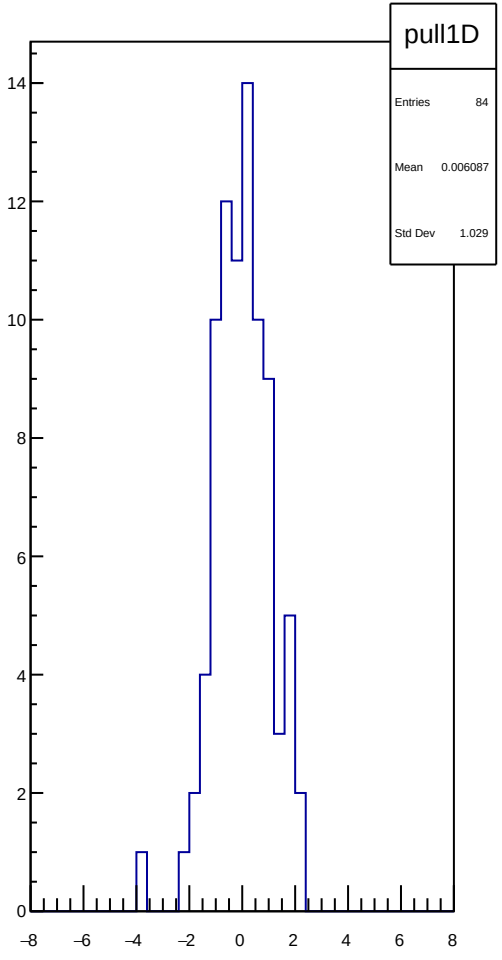

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 76.93 / 83
p0 22.37 ± 1.96
pull
Entries 84
Mean −35.99
Std Dev 73.73

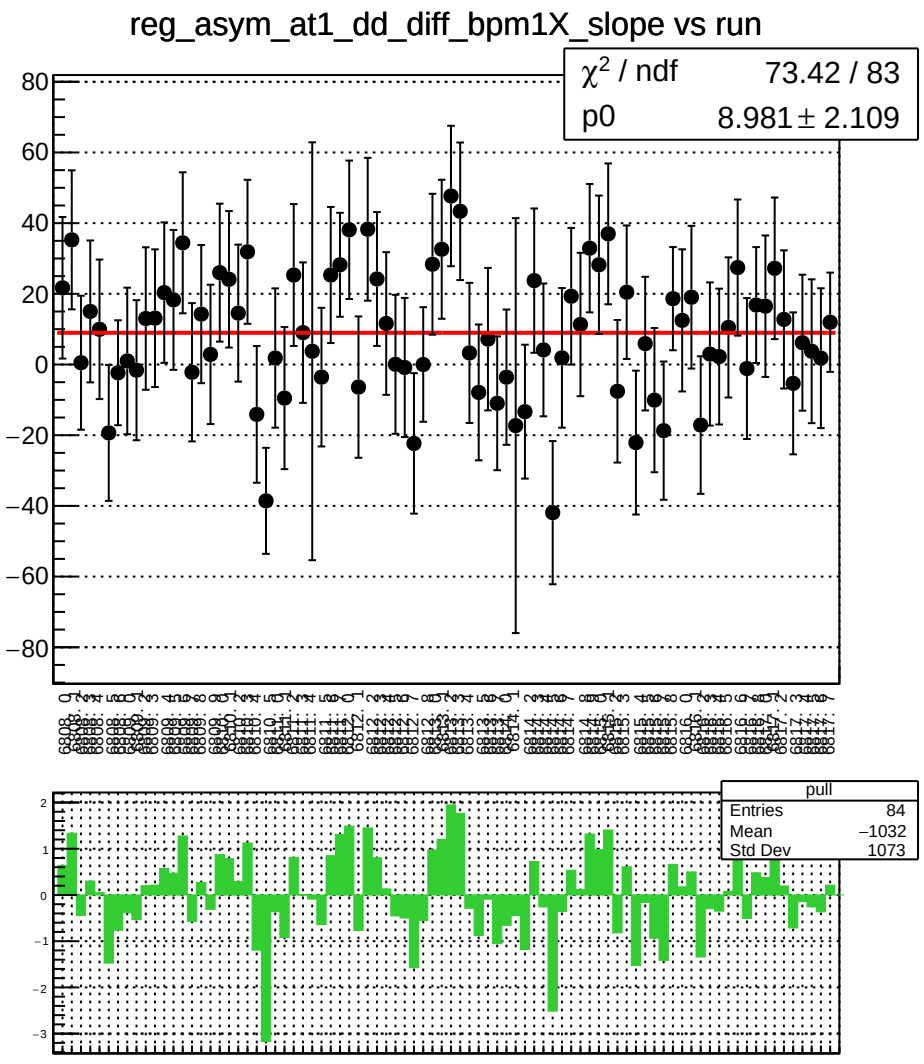

pull1D
Entries 84
Mean −0.02493
Std Dev 0.9567

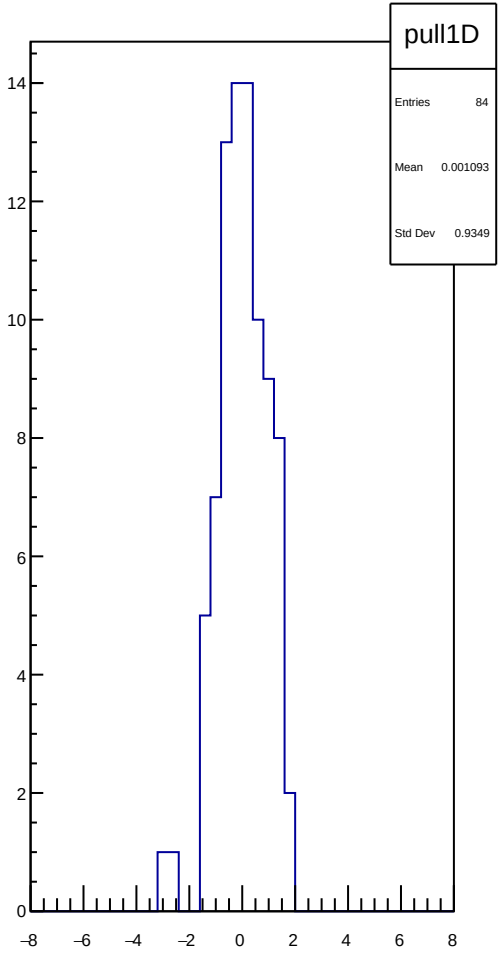

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 74.36 / 83
p0 −17.98 ± 1.626
150
100
50
0
−50
−100
pull
Entries 84
Mean −329.1
Std Dev 375.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

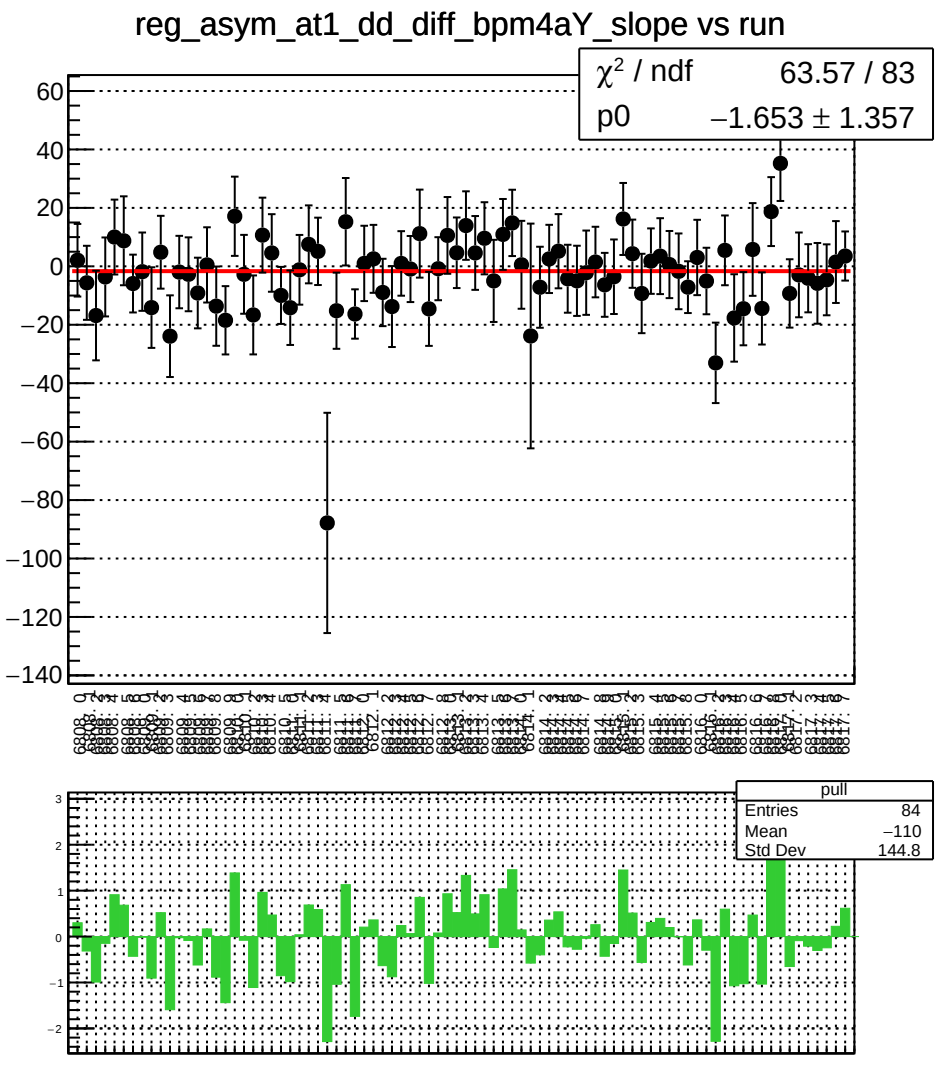

pull1D
Entries 84
Mean 0.02041
Std Dev 0.9406
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

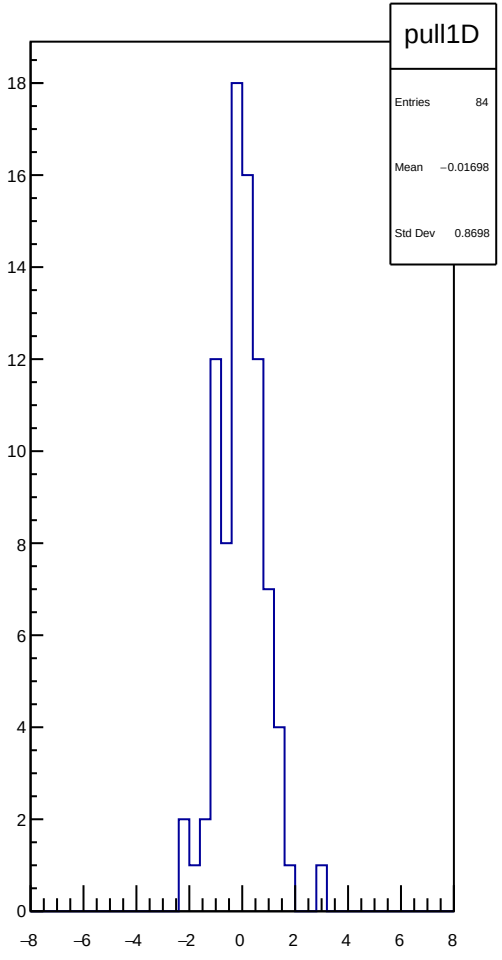

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 88.9 / 83
p0 −15.86 ± 0.08499
pull
Entries 84
Mean −40.16
Std Dev 92.25

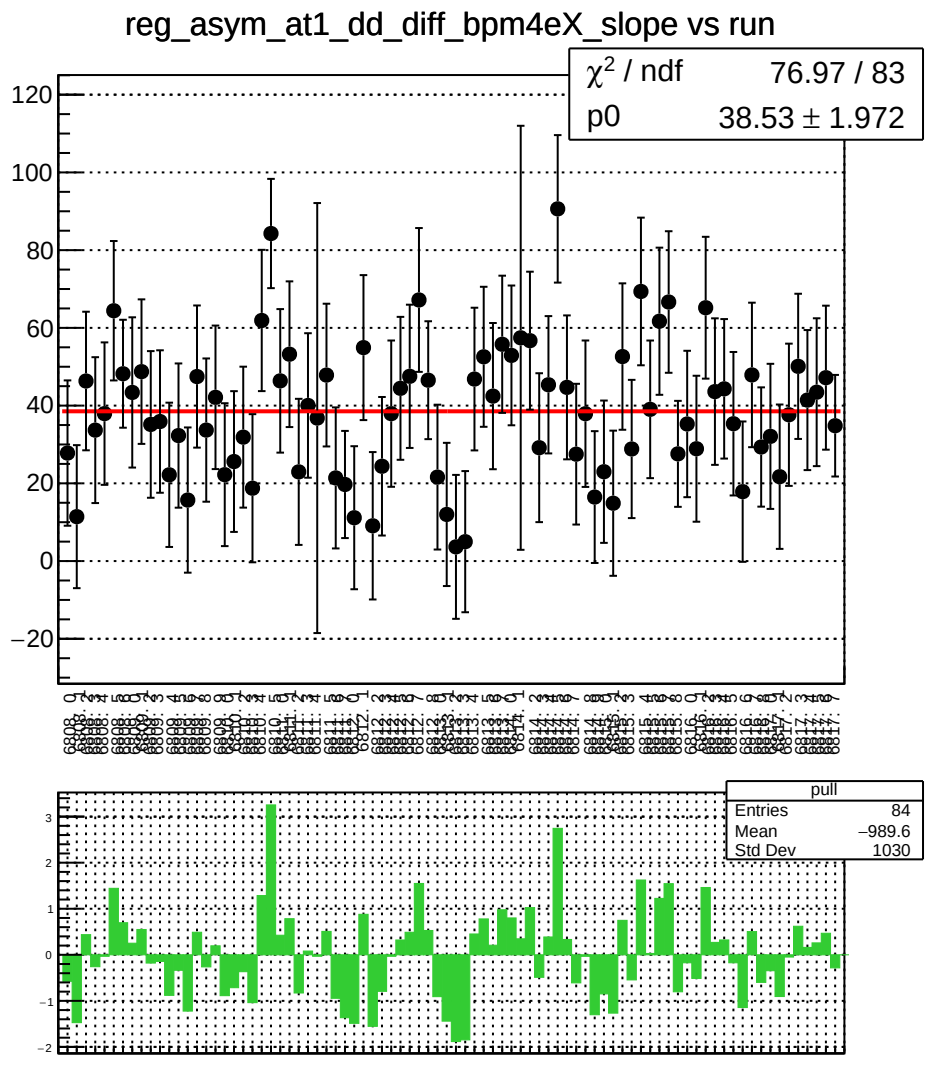

pull1D
Entries 84
Mean 0.006087
Std Dev 1.029

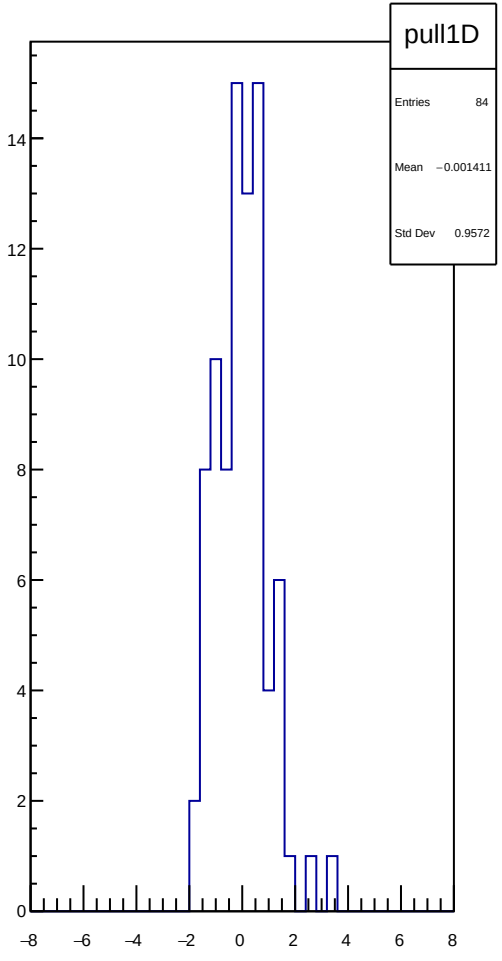

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 73.42 / 83
p0 8.981 ± 2.109
pull
Entries 84
Mean −1032
Std Dev 1073

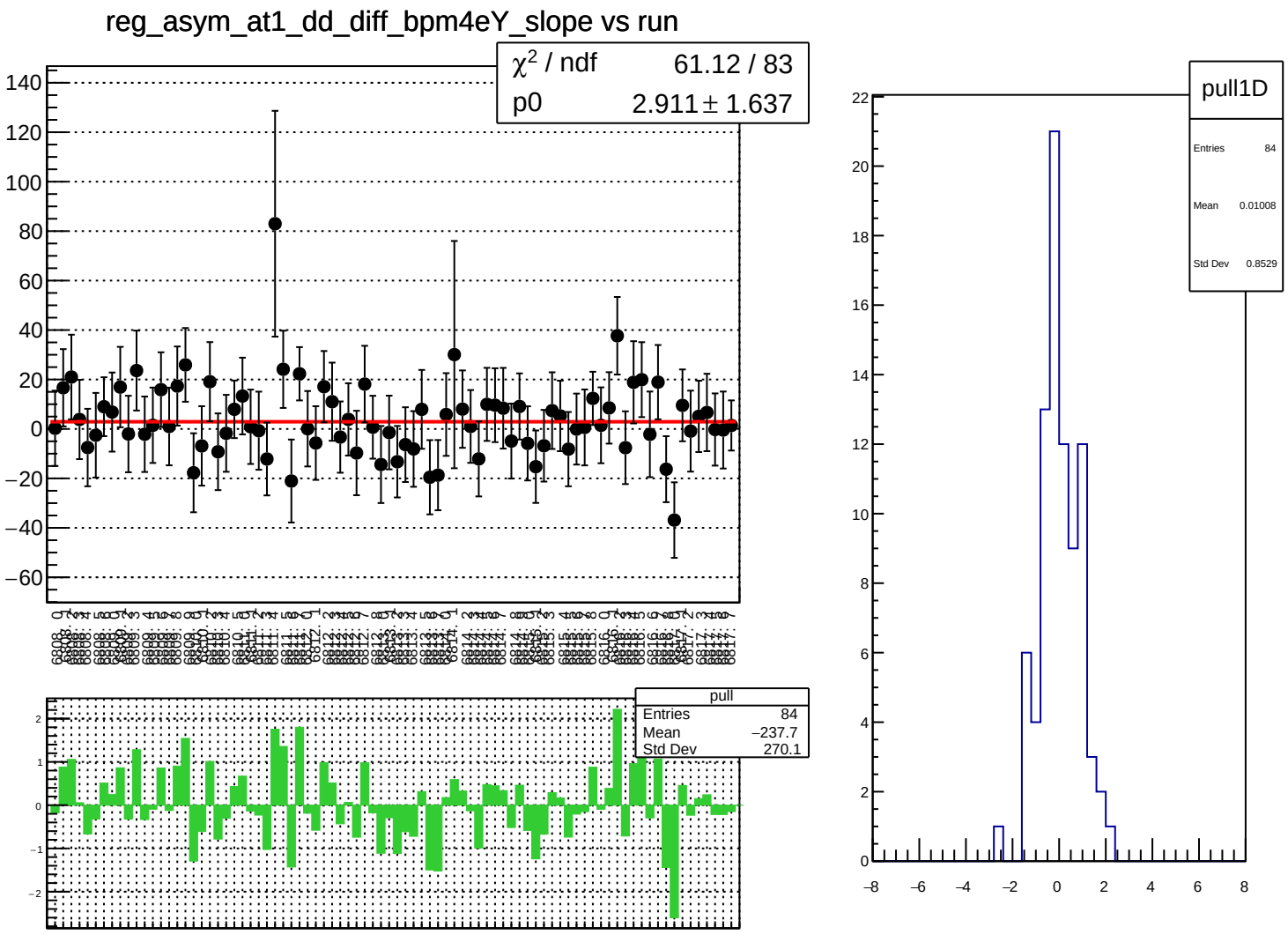

pull1D
Entries 84
Mean 0.001093
Std Dev 0.9349

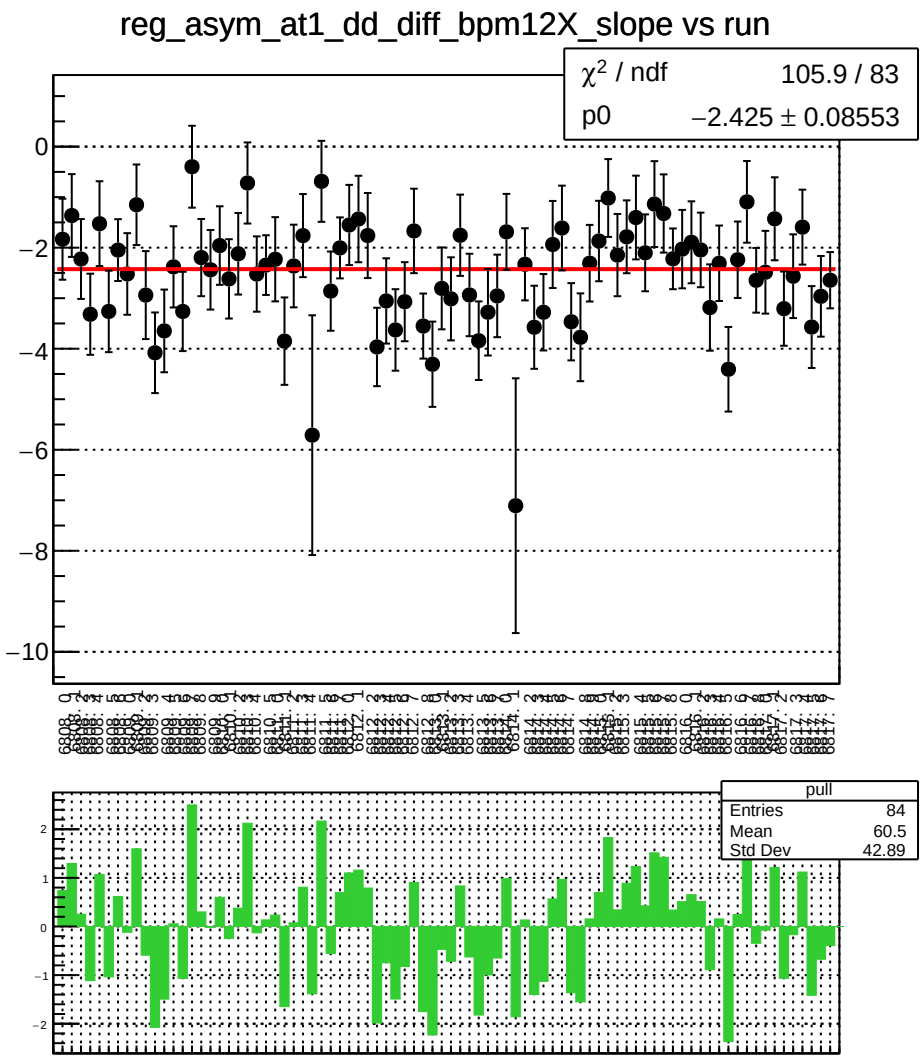

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.57 / 83
p0 −1.653 ± 1.357
pull
Entries 84
Mean −110
Std Dev 144.8

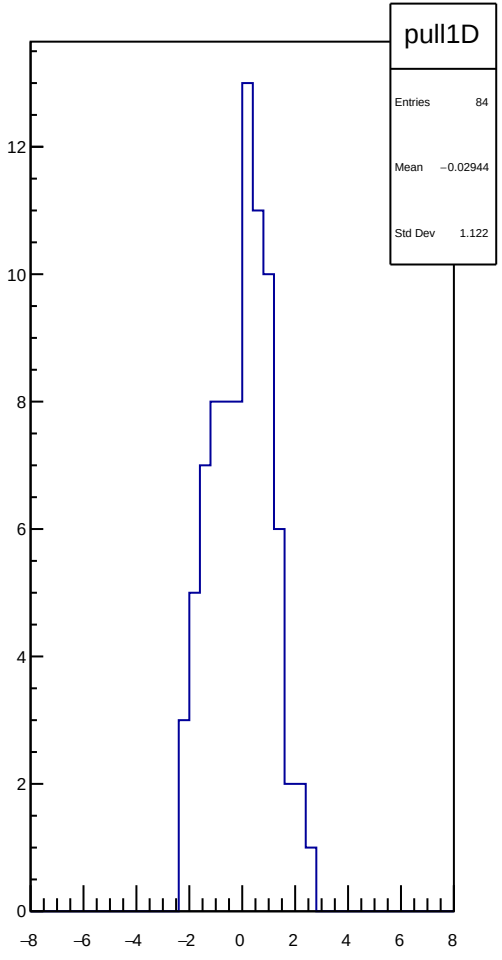

pull1D
Entries 84
Mean −0.01698
Std Dev 0.8698

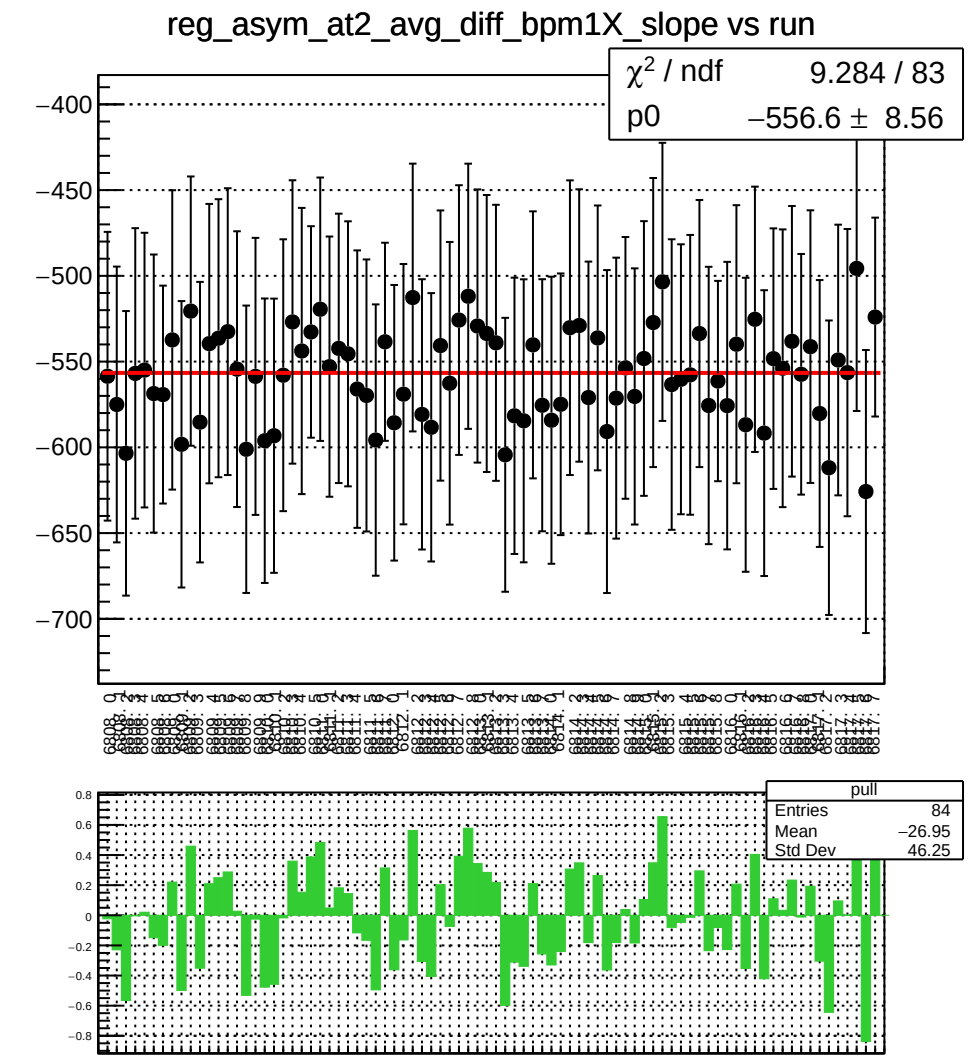

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 76.97 / 83
p0 38.53 ± 1.972
pull
Entries 84
Mean −989.6
Std Dev 1030

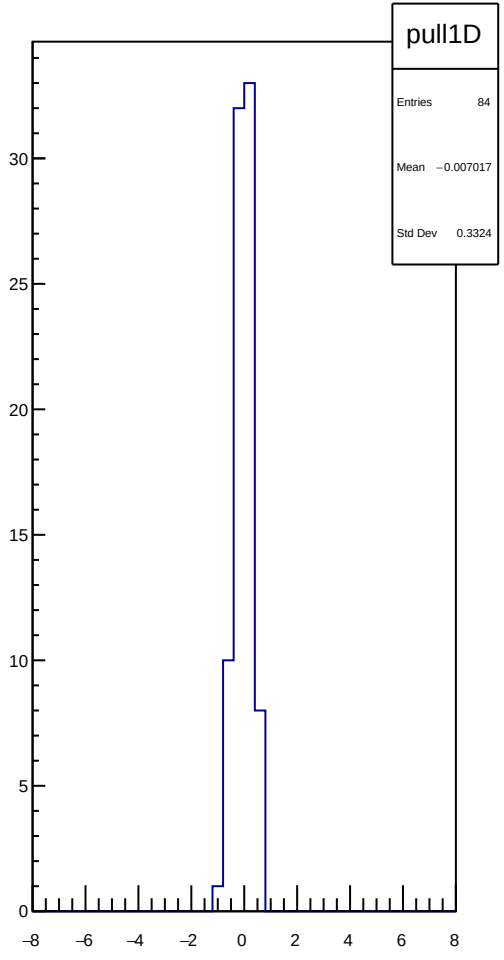

pull1D
Entries 84
Mean −0.001411
Std Dev 0.9572

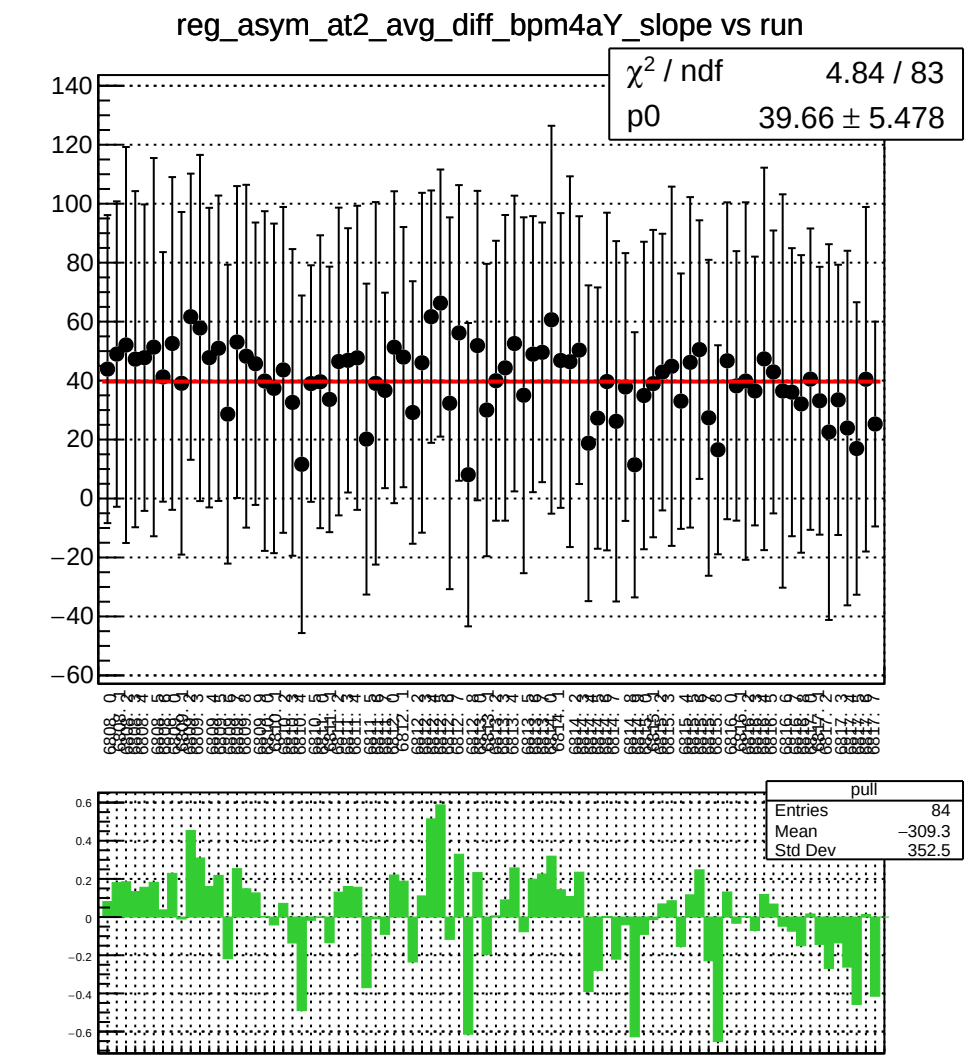

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 61.12 / 83
p0 2.911 ± 1.637
pull
Entries 84
Mean −237.7
Std Dev 270.1
pull1D
Entries 84
Mean 0.01008
Std Dev 0.8529

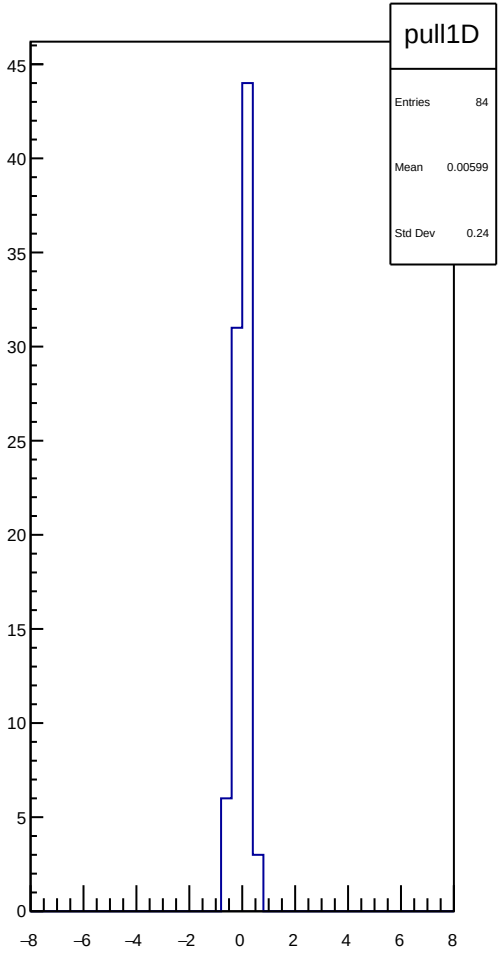

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 105.9 / 83
p0 −2.425 ± 0.08553
pull
Entries 84
Mean 60.5
Std Dev 42.89

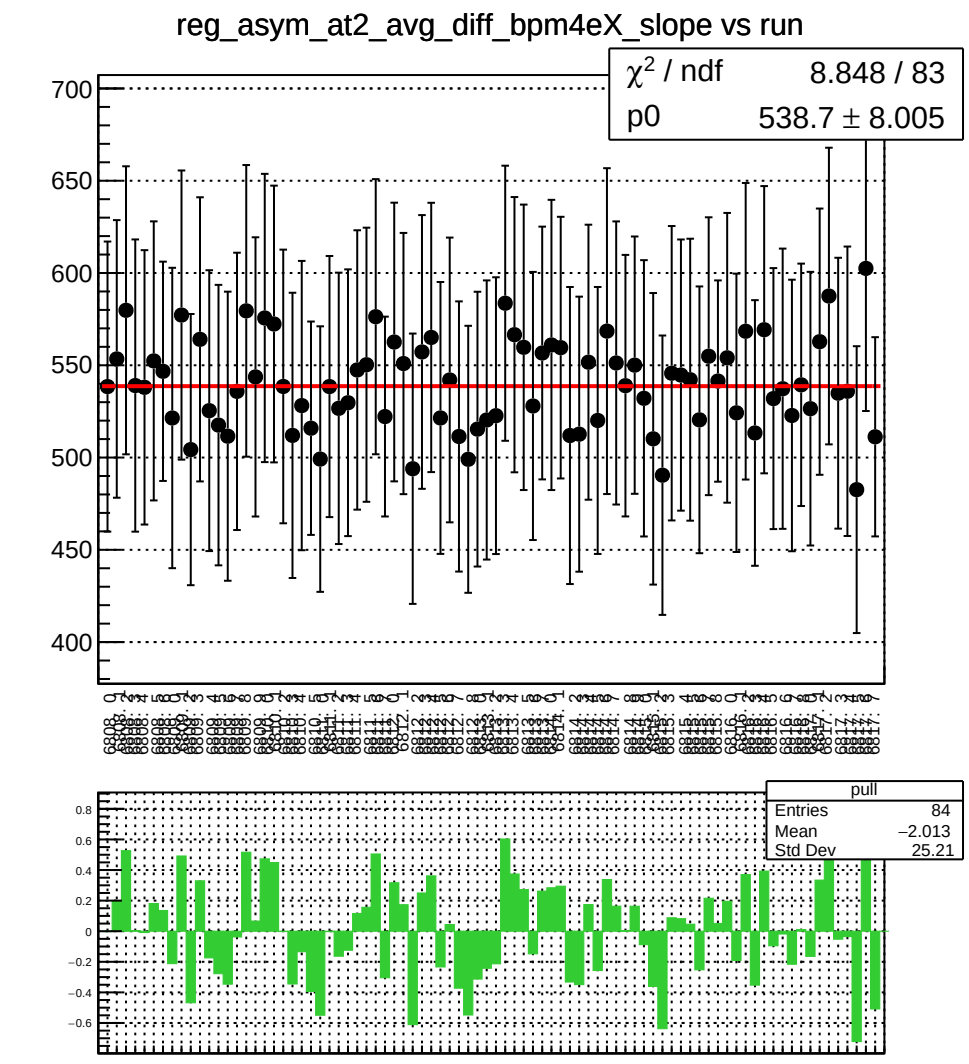

pull1D
Entries 84
Mean −0.02944
Std Dev 1.122

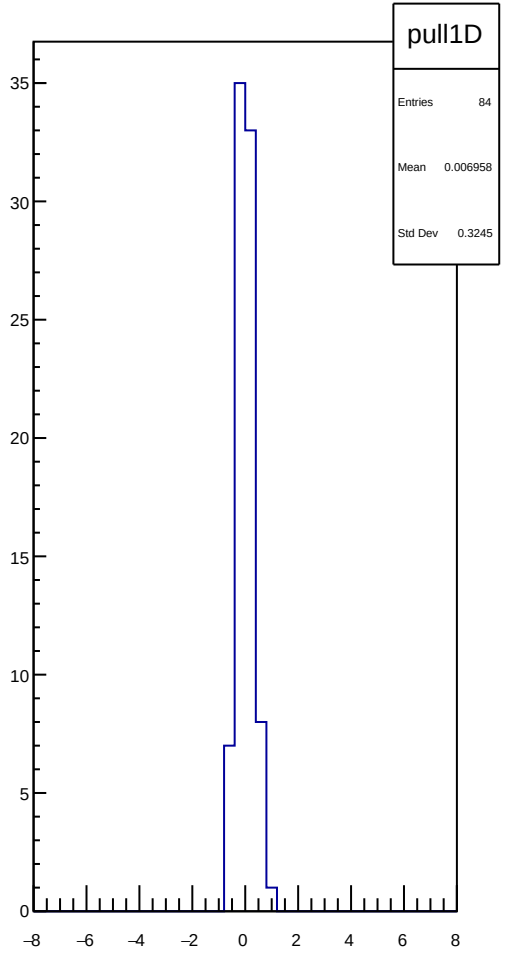

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 9.284 / 83
p0 −556.6 ± 8.56
−400
−450
−500
−550
−600
−650
−700
pull
Entries 84
Mean −26.95
Std Dev 46.25
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

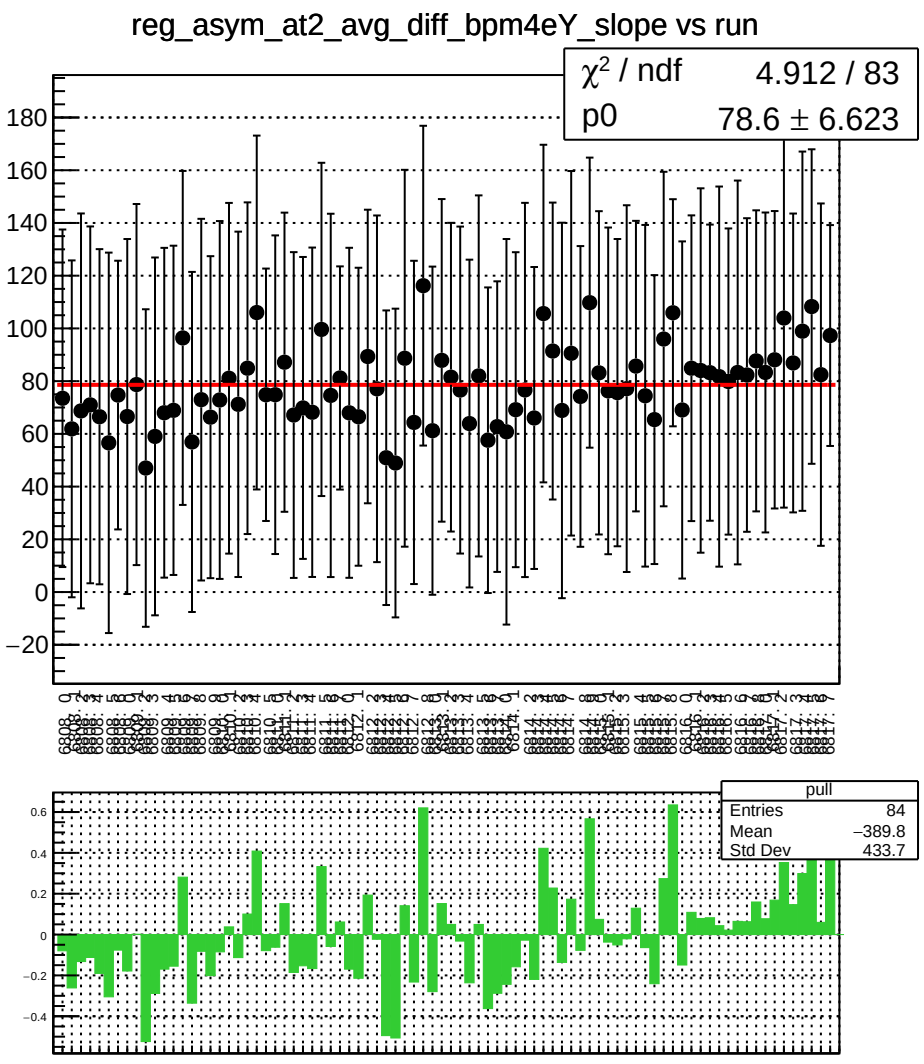

pull1D
Entries 84
Mean −0.007017
Std Dev 0.3324
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

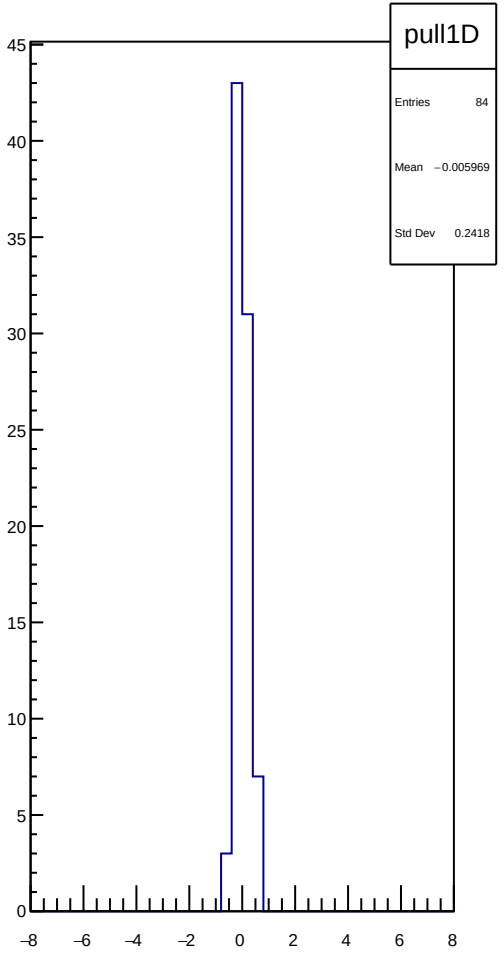

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.84 / 83
p0 39.66 ± 5.478
pull
Entries 84
Mean −309.3
Std Dev 352.5

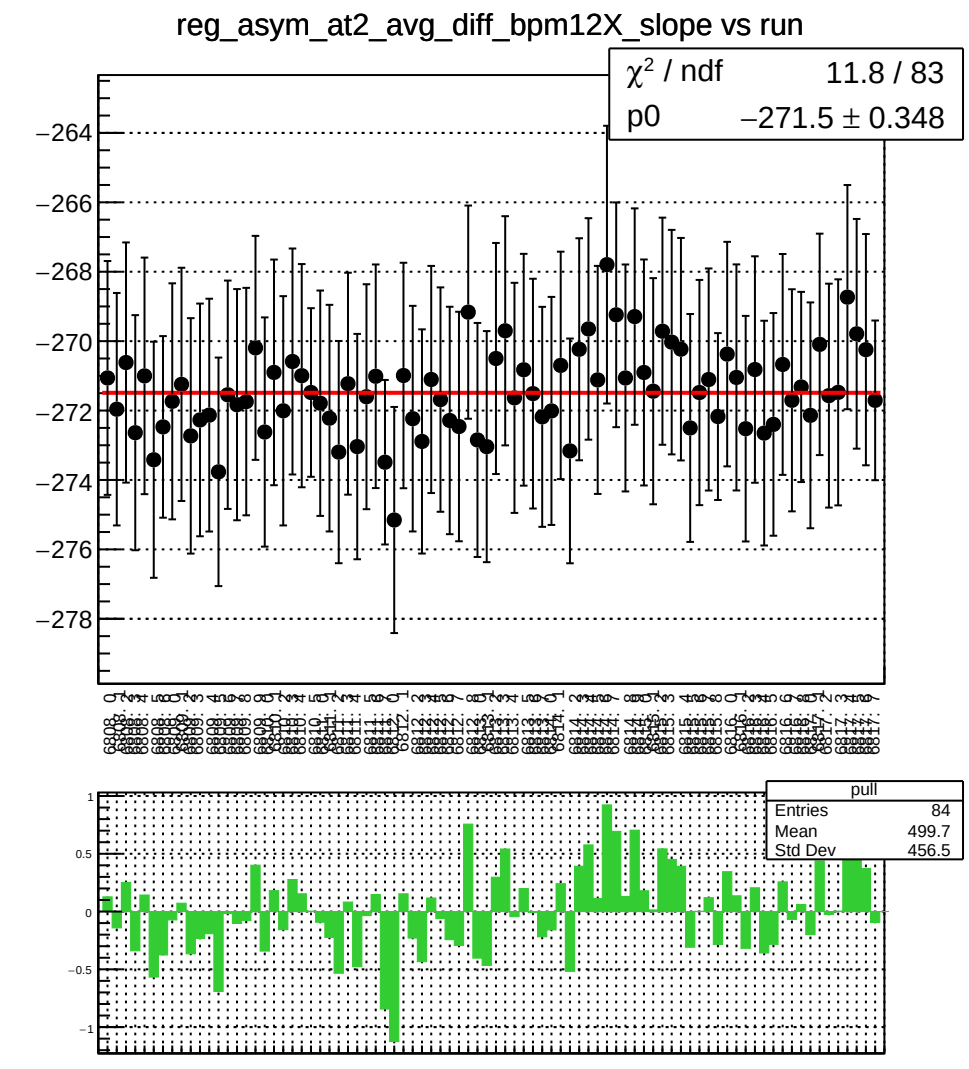

pull1D
Entries 84
Mean 0.00599
Std Dev 0.24

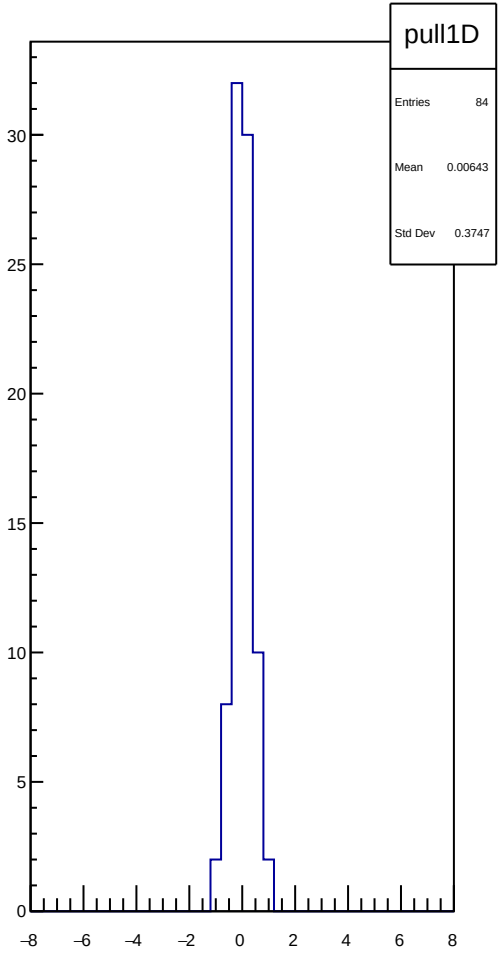

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.848 / 83
p0 538.7 ± 8.005
700
650
600
550
500
450
400
pull
Entries 84
Mean −2.013
Std Dev 25.21
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

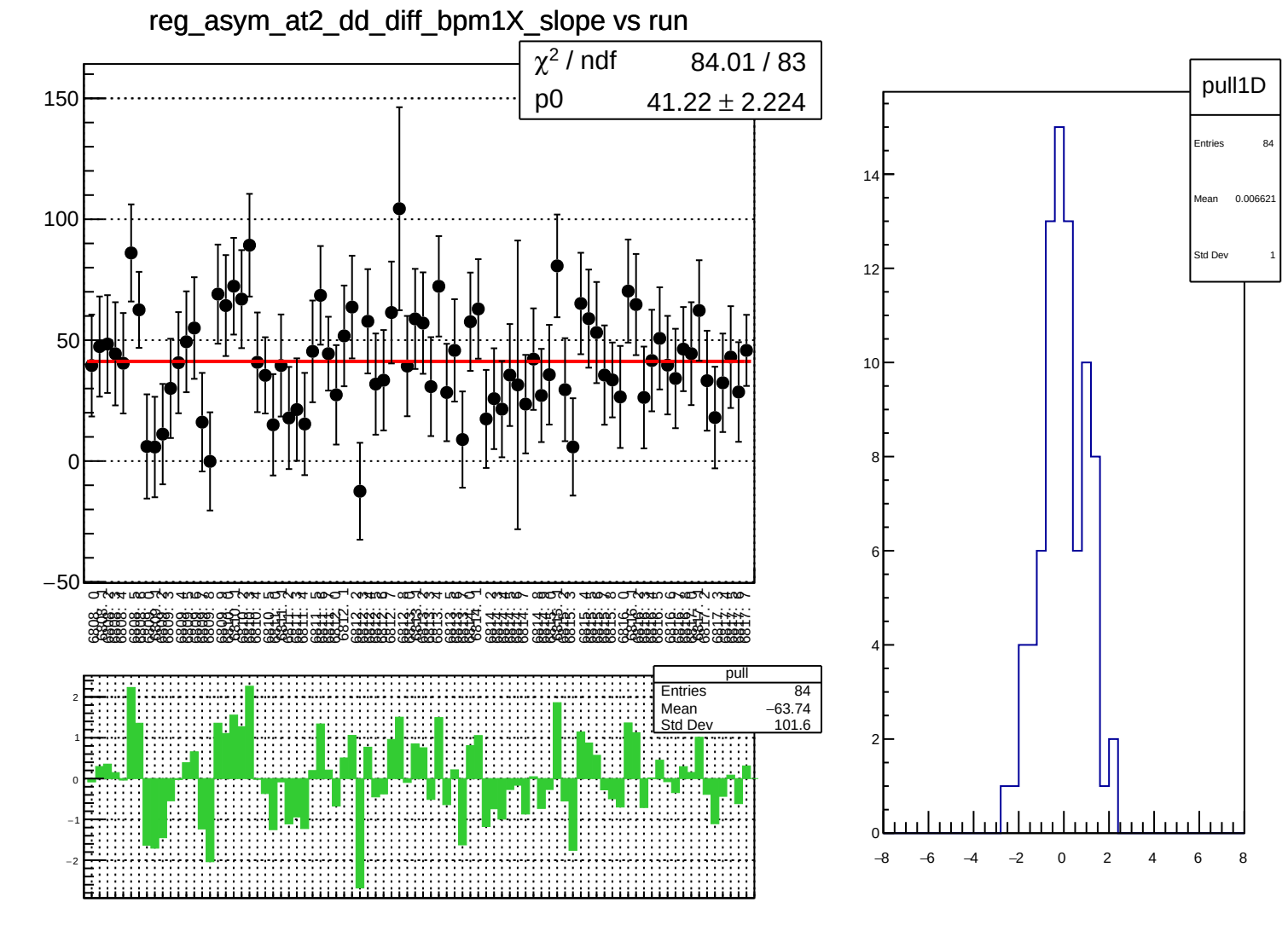

pull1D
Entries 84
Mean 0.006958
Std Dev 0.3245
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

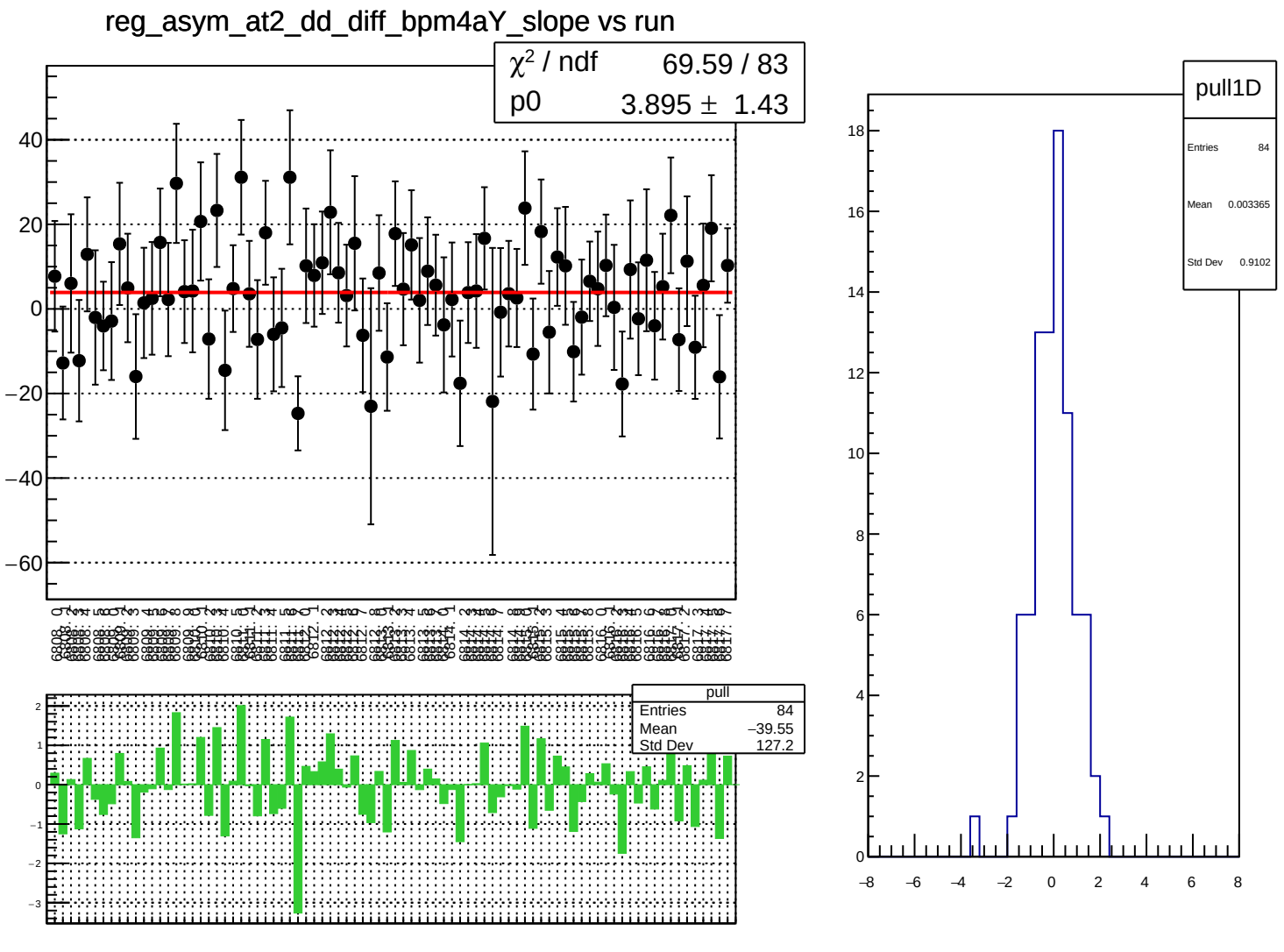

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.912 / 83
p0 78.6 ± 6.623
pull
Entries 84
Mean −389.8
Std Dev 433.7

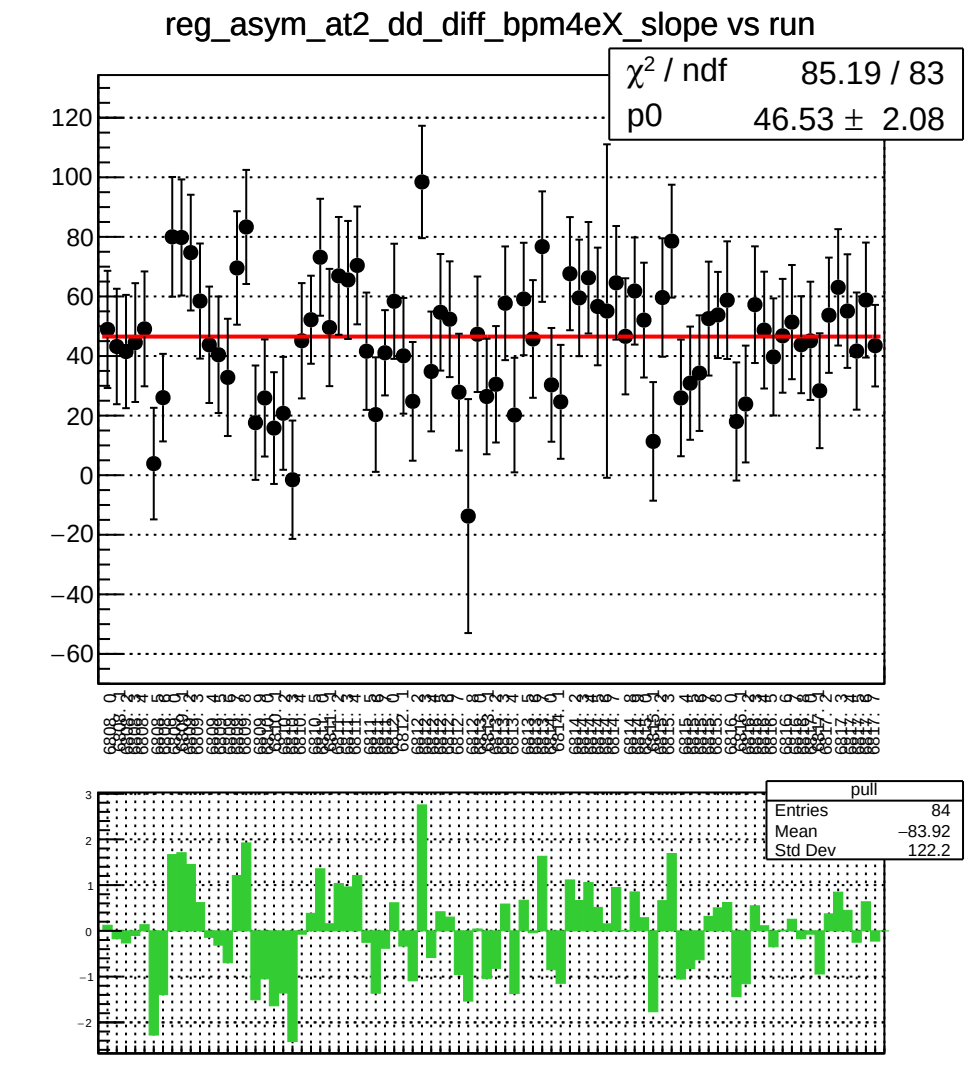

pull1D
Entries 84
Mean −0.005969
Std Dev 0.2418

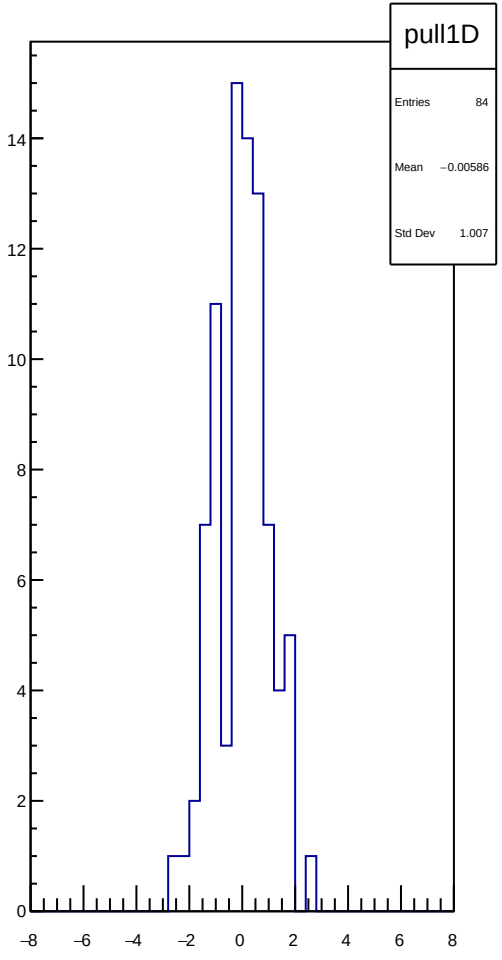

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 11.8 / 83
p0 −271.5 ± 0.348
−264
−266
−268
−270
−272
−274
−276
−278
pull
Entries 84
Mean 499.7
Std Dev 456.5
1
0.5
0
−0.5
−1

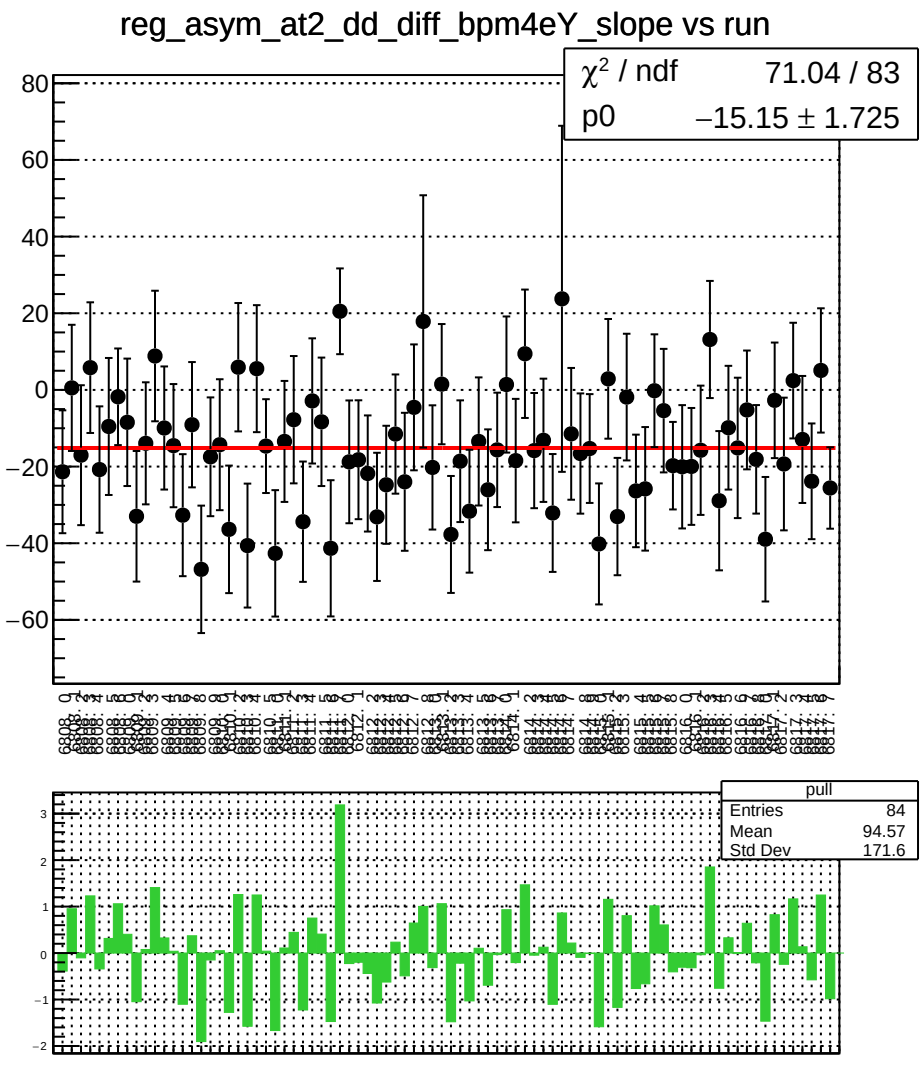

pull1D
Entries 84
Mean 0.00643
Std Dev 0.3747
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

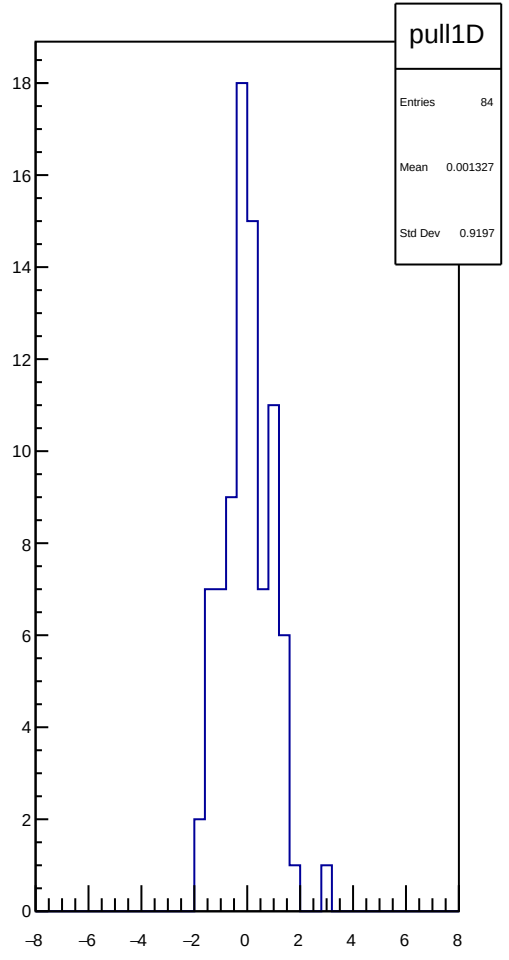

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 84.01 / 83
p0 41.22 ± 2.224
150
100
50
0
−50
pull
Entries 84
Mean −63.74
Std Dev 101.6
2
1
0
−1
−2
pull1D
Entries 84
Mean 0.006621
Std Dev 1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

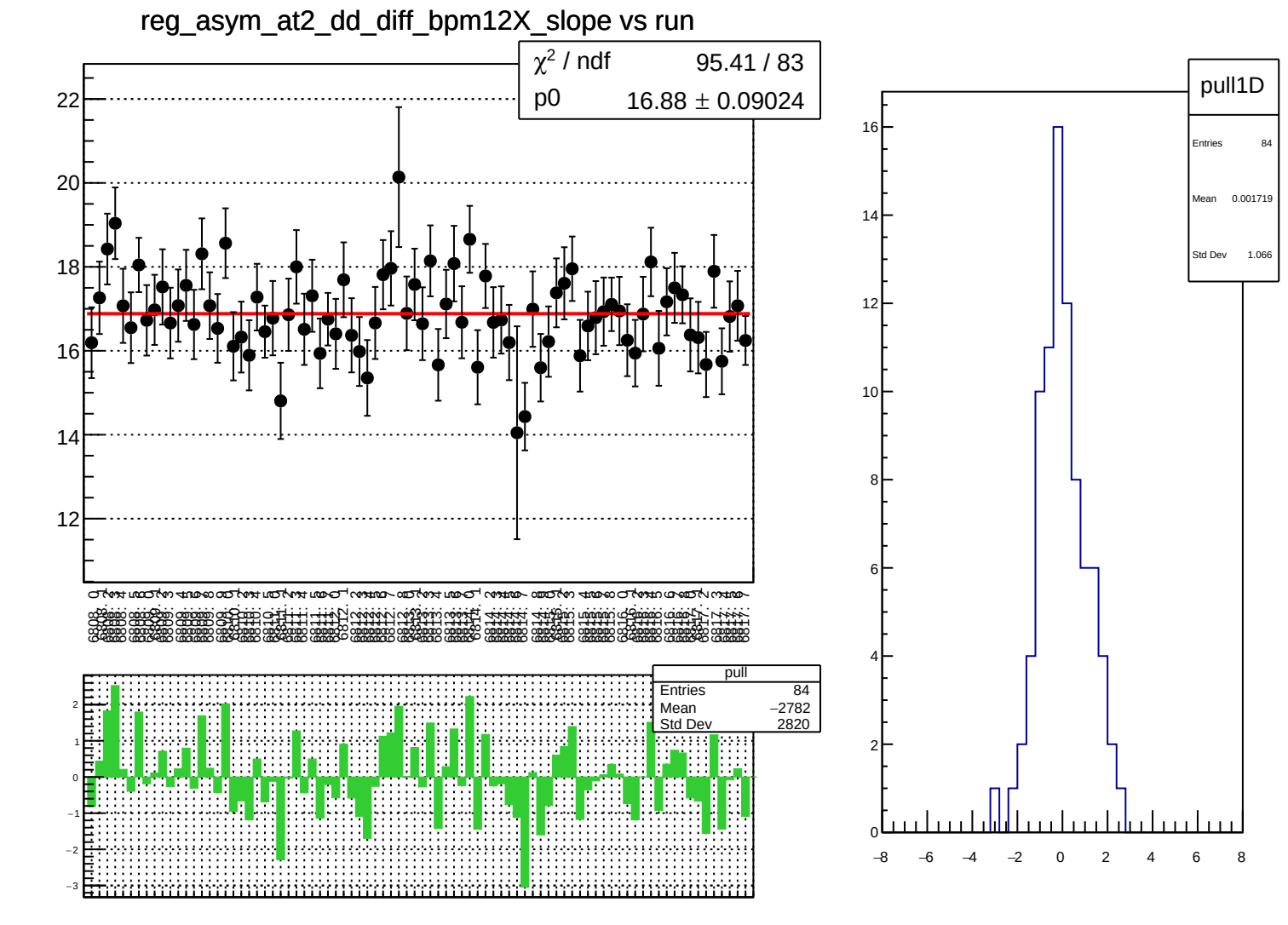

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.59 / 83
p0 3.895 ± 1.43
pull
Entries 84
Mean −39.55
Std Dev 127.2
pull1D
Entries 84
Mean 0.003365
Std Dev 0.9102

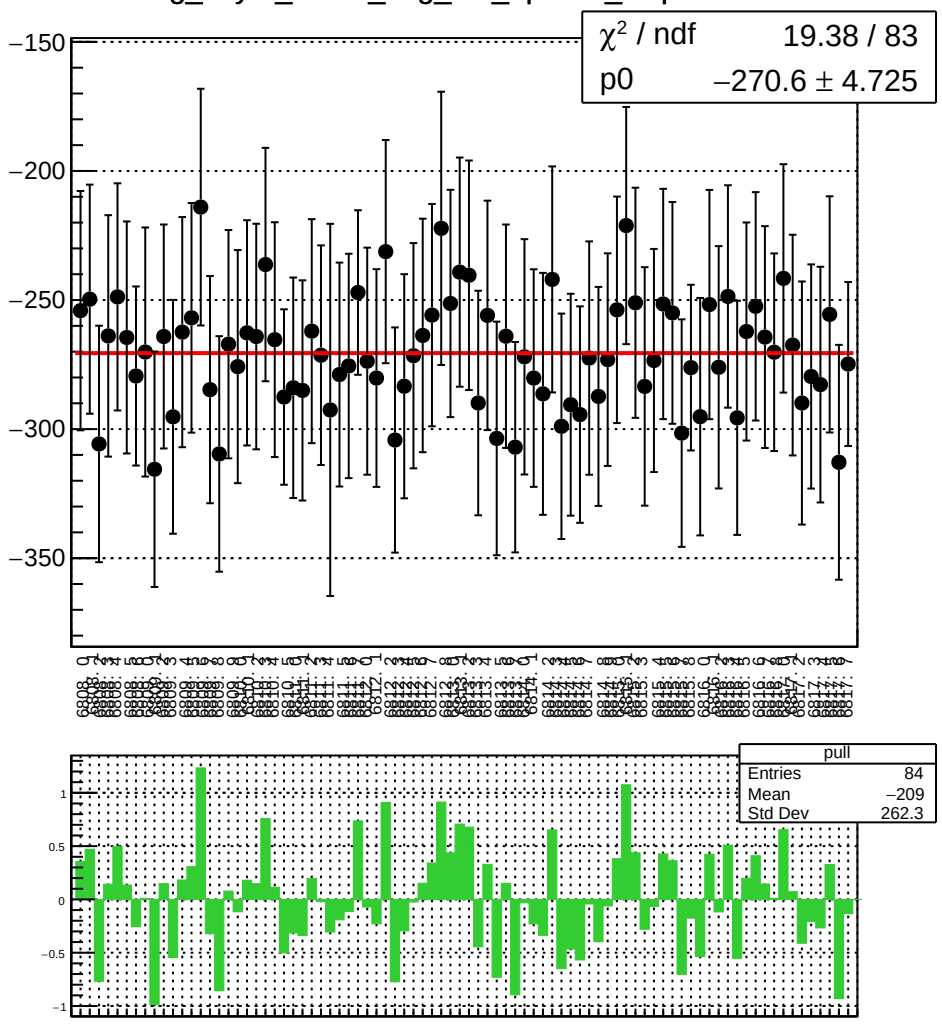

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.19 / 83
p0 46.53 ± 2.08
pull
Entries 84
Mean −83.92
Std Dev 122.2

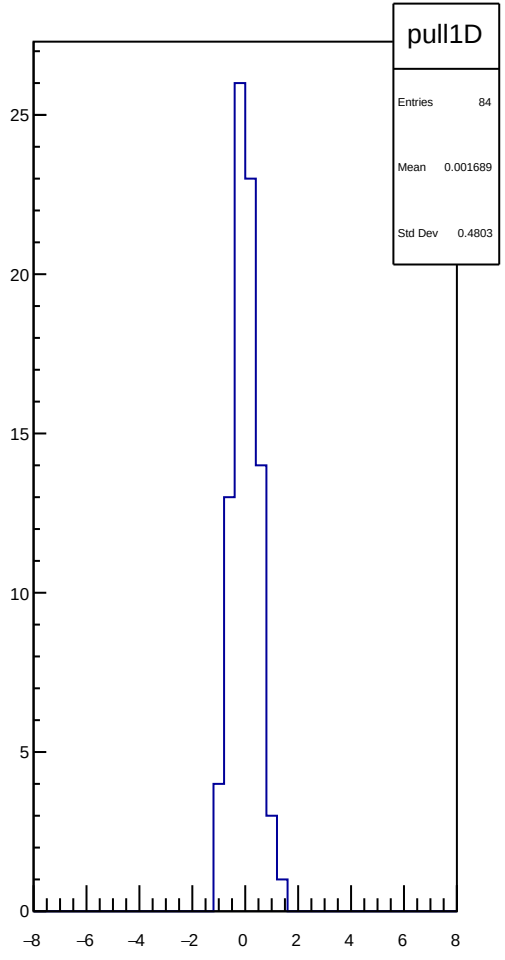

pull1D
Entries 84
Mean −0.00586
Std Dev 1.007

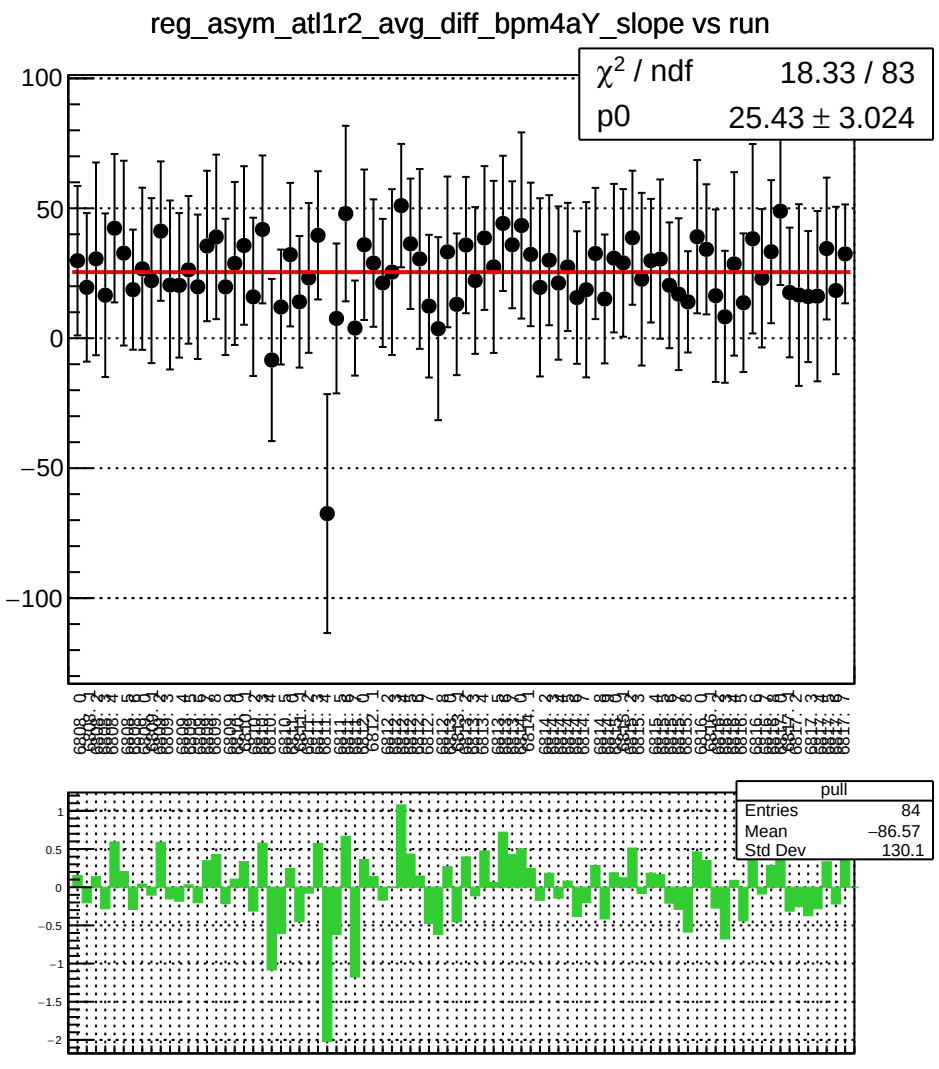

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.04 / 83
p0 −15.15 ± 1.725
pull
Entries 84
Mean 94.57
Std Dev 171.6

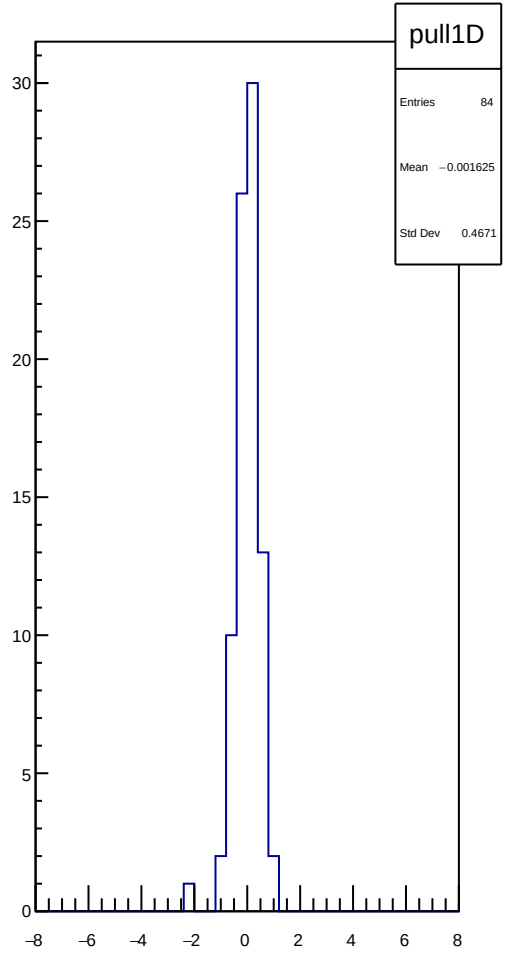

pull1D
Entries 84
Mean 0.001327
Std Dev 0.9197

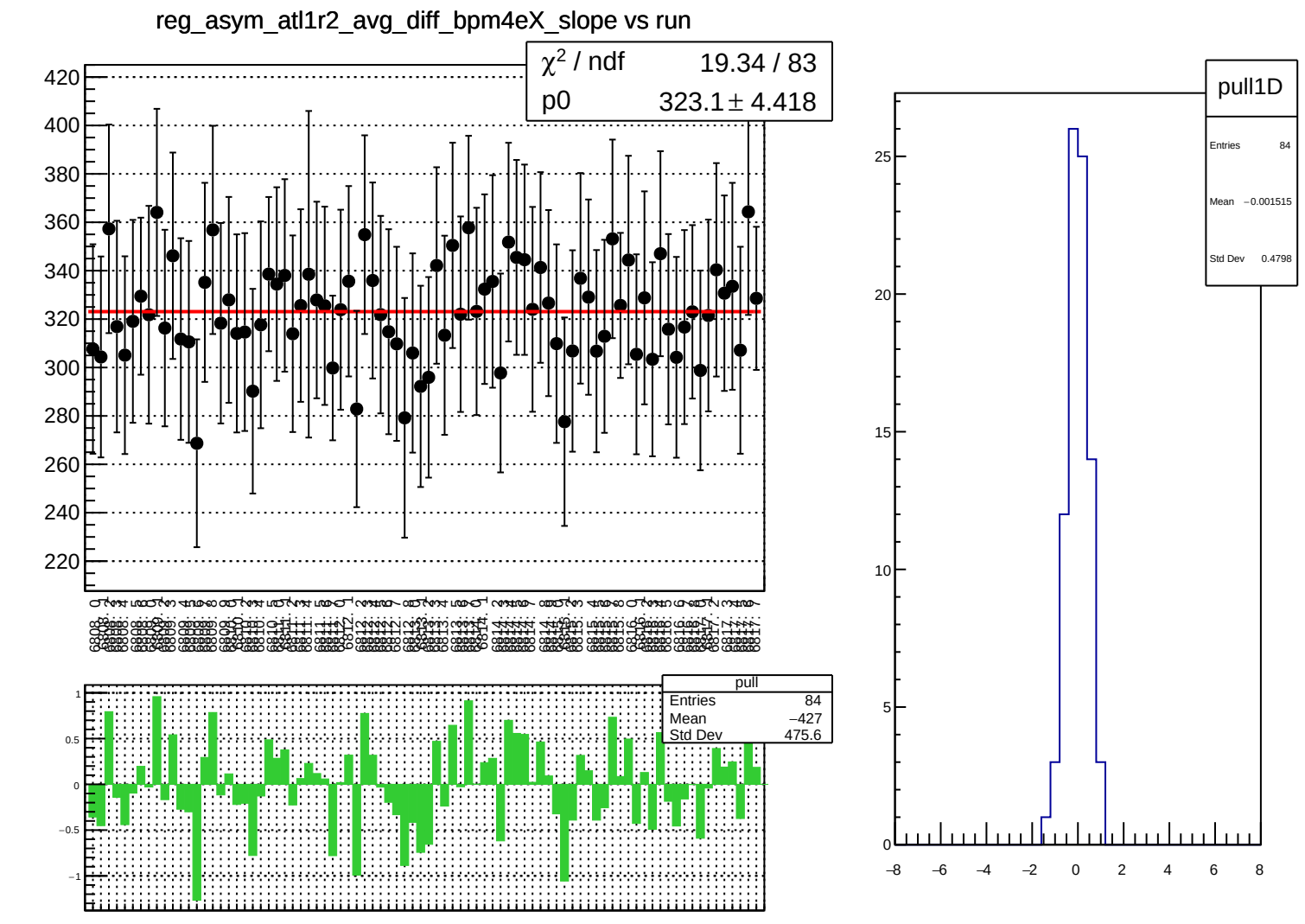

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 95.41 / 83
p0 16.88 ± 0.09024
pull
Entries 84
Mean −2782
Std Dev 2820
pull1D
Entries 84
Mean 0.001719
Std Dev 1.066

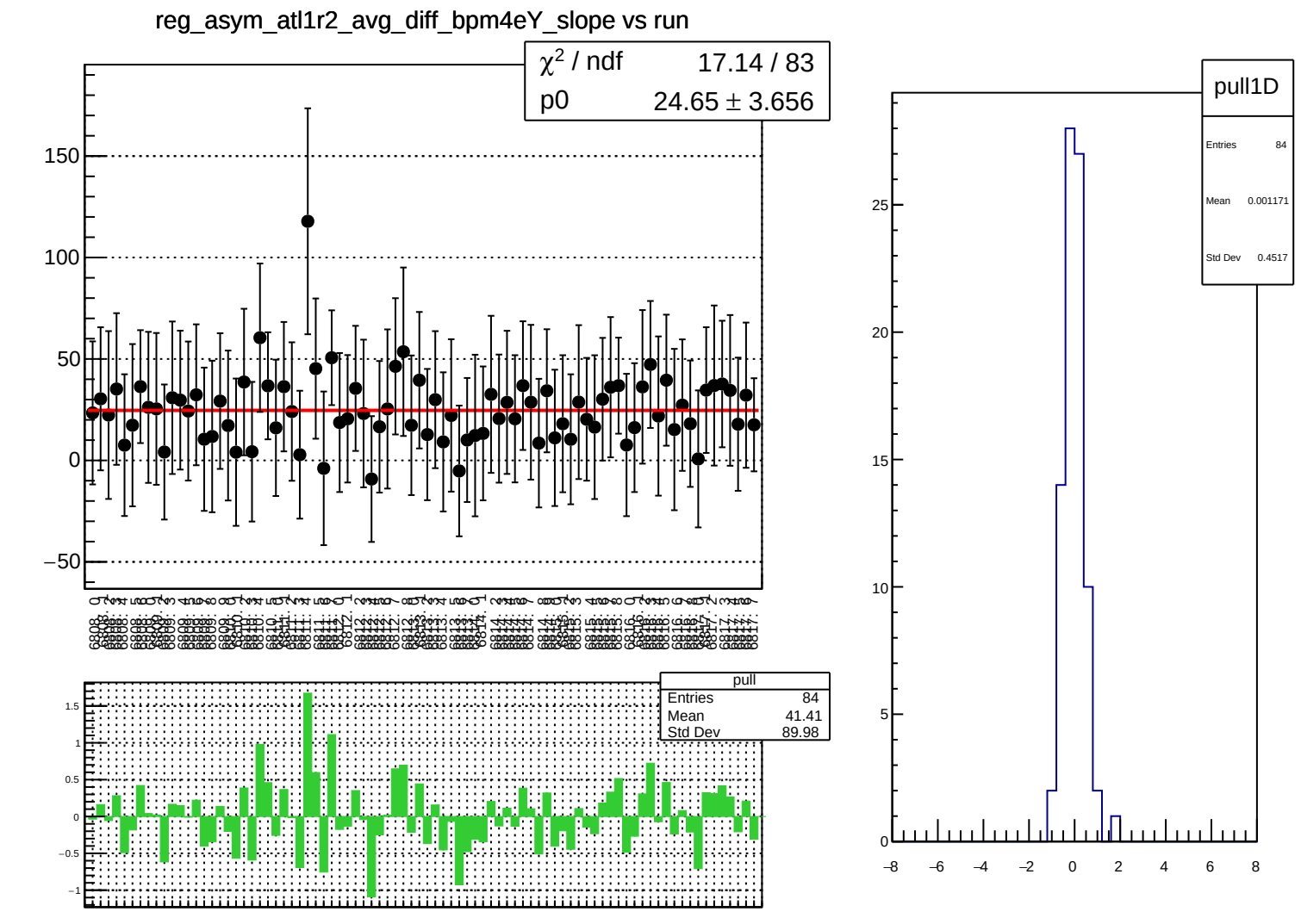

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 19.38 / 83
p0 −270.6 ± 4.725
−150
−200
−250
−300
−350
pull
Entries 84
Mean −209
Std Dev 262.3
1
0.5
0
−0.5
−1

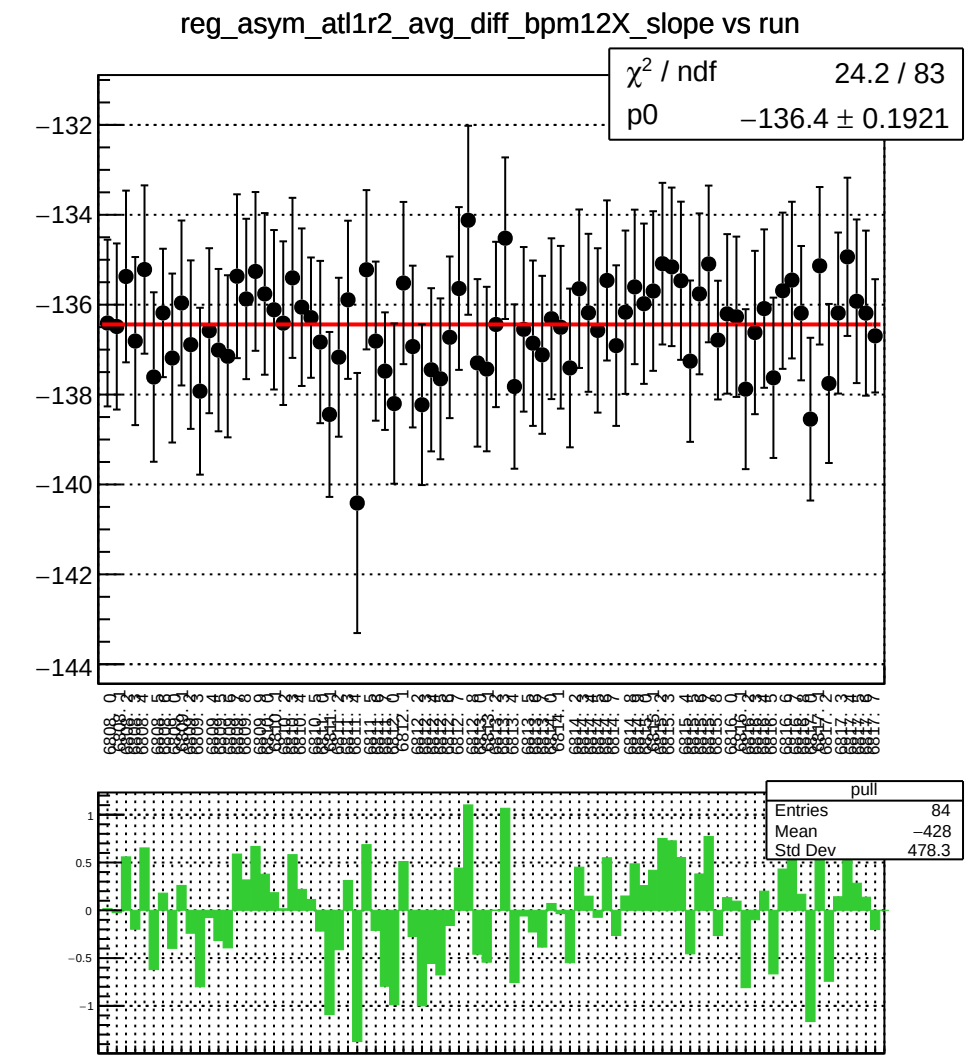

pull1D
Entries 84
Mean 0.001689
Std Dev 0.4803
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

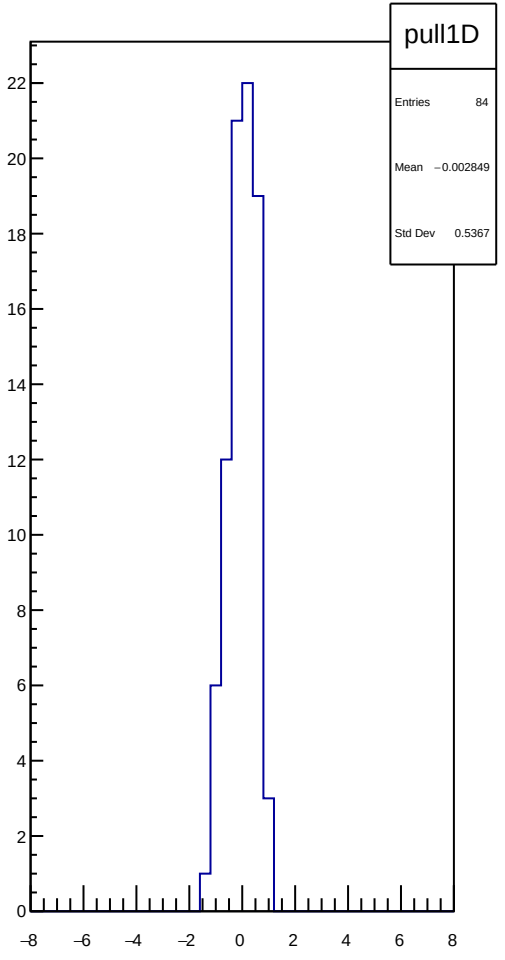

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.33 / 83
p0 25.43 ± 3.024
100
50
0
−50
−100
pull
Entries 84
Mean −86.57
Std Dev 130.1
1
0.5
0
−0.5
−1
−1.5
−2

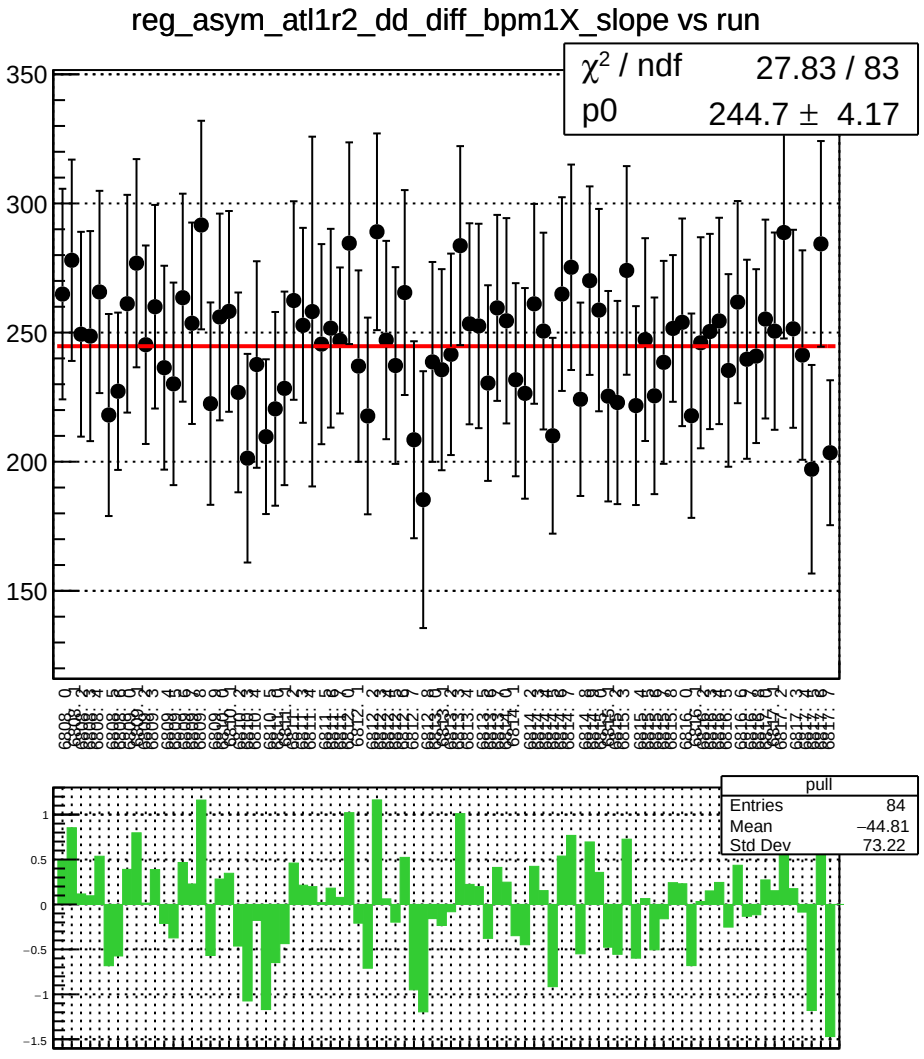

pull1D
Entries 84
Mean −0.001625
Std Dev 0.4671
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

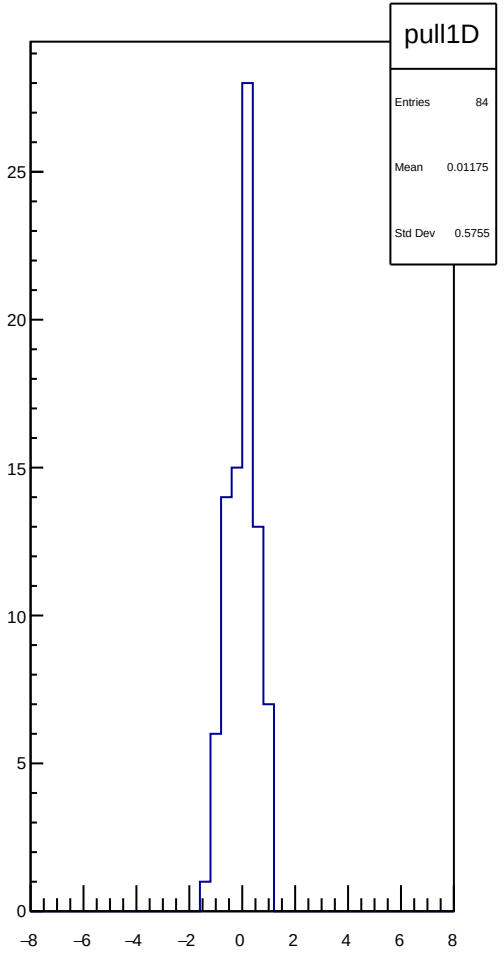

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.34 / 83
p0 323.1 ± 4.418
pull
Entries 84
Mean −427
Std Dev 475.6
pull1D
Entries 84
Mean −0.001515
Std Dev 0.4798

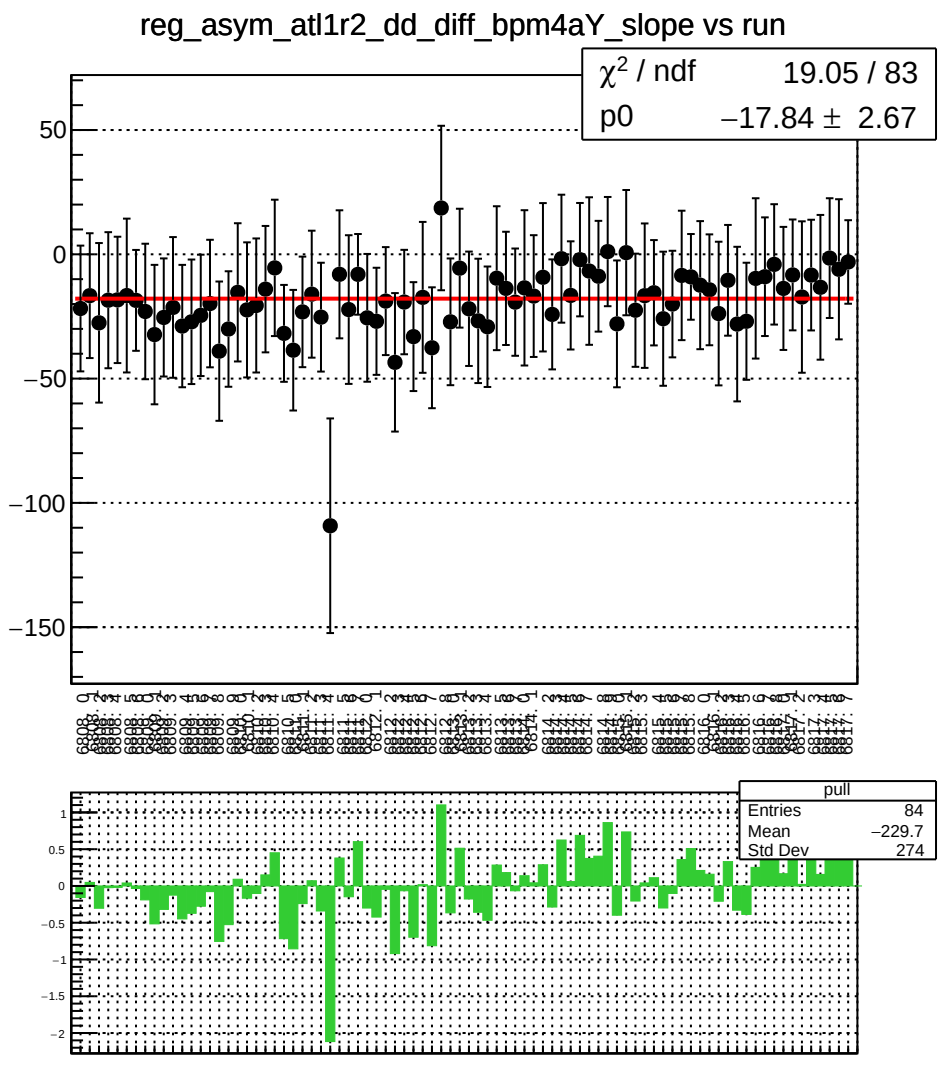

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.14 / 83
p0 24.65 ± 3.656
150
100
50
0
−50
pull
Entries 84
Mean 41.41
Std Dev 89.98
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean 0.001171
Std Dev 0.4517
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

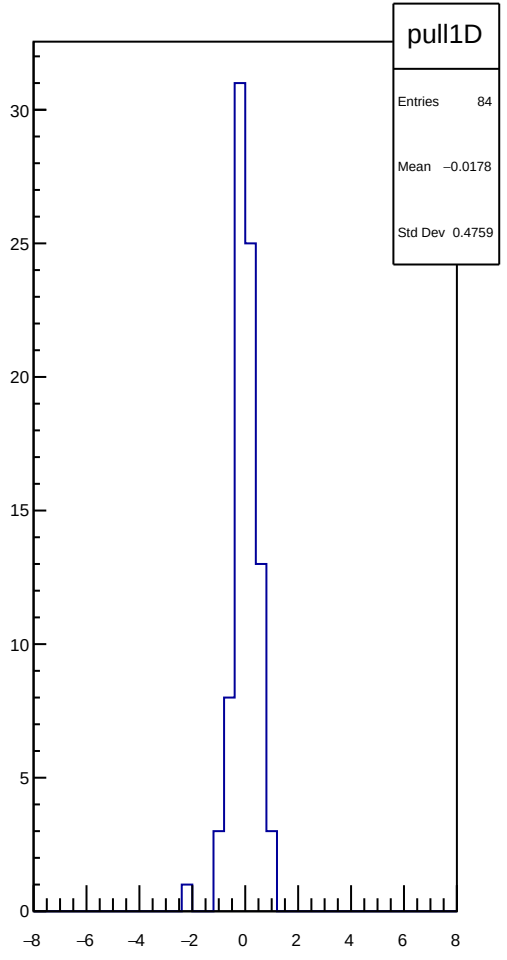

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 24.2 / 83
p0 −136.4 ± 0.1921
pull
Entries 84
Mean −428
Std Dev 478.3

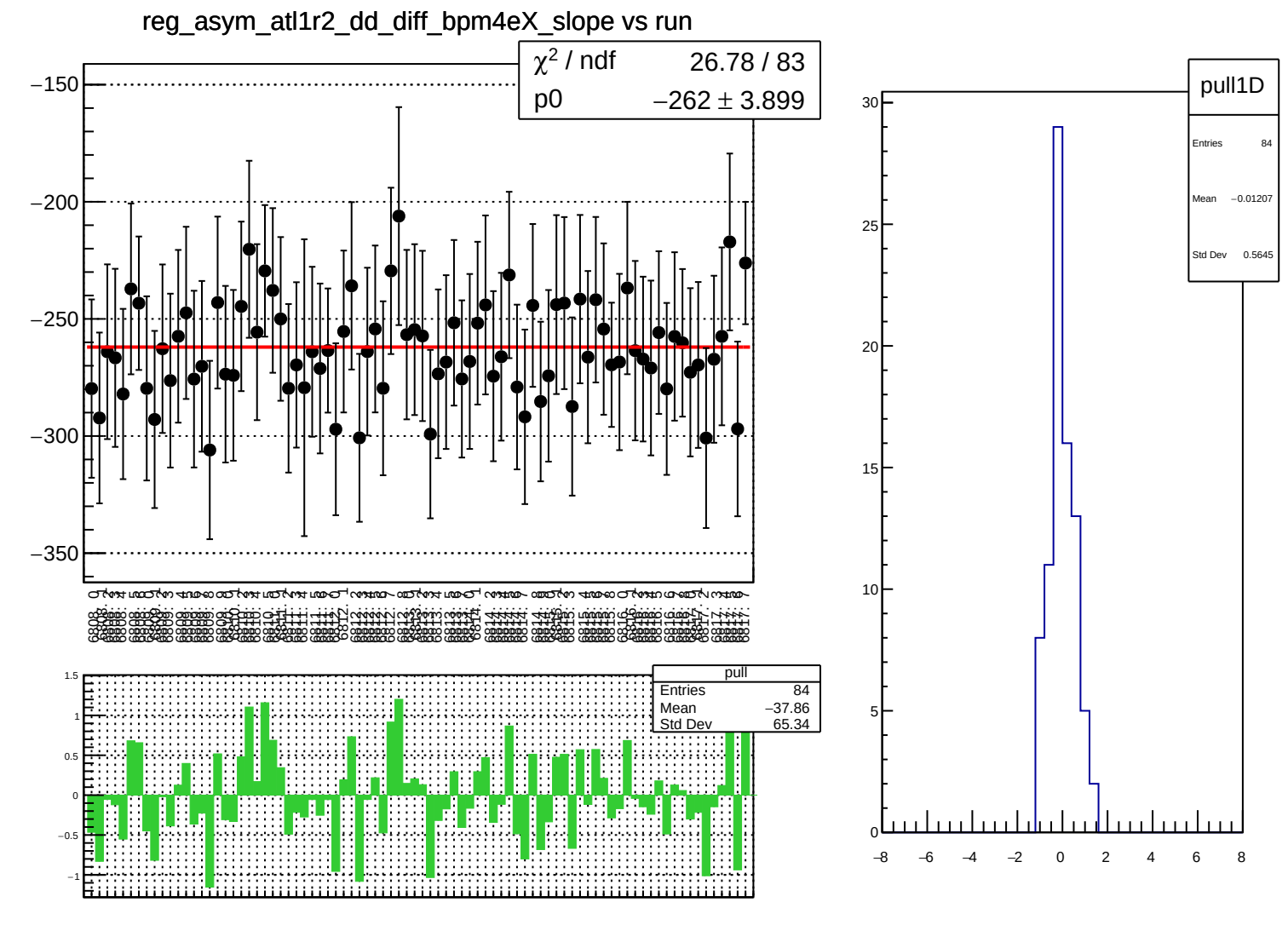

pull1D
Entries 84
Mean −0.002849
Std Dev 0.5367

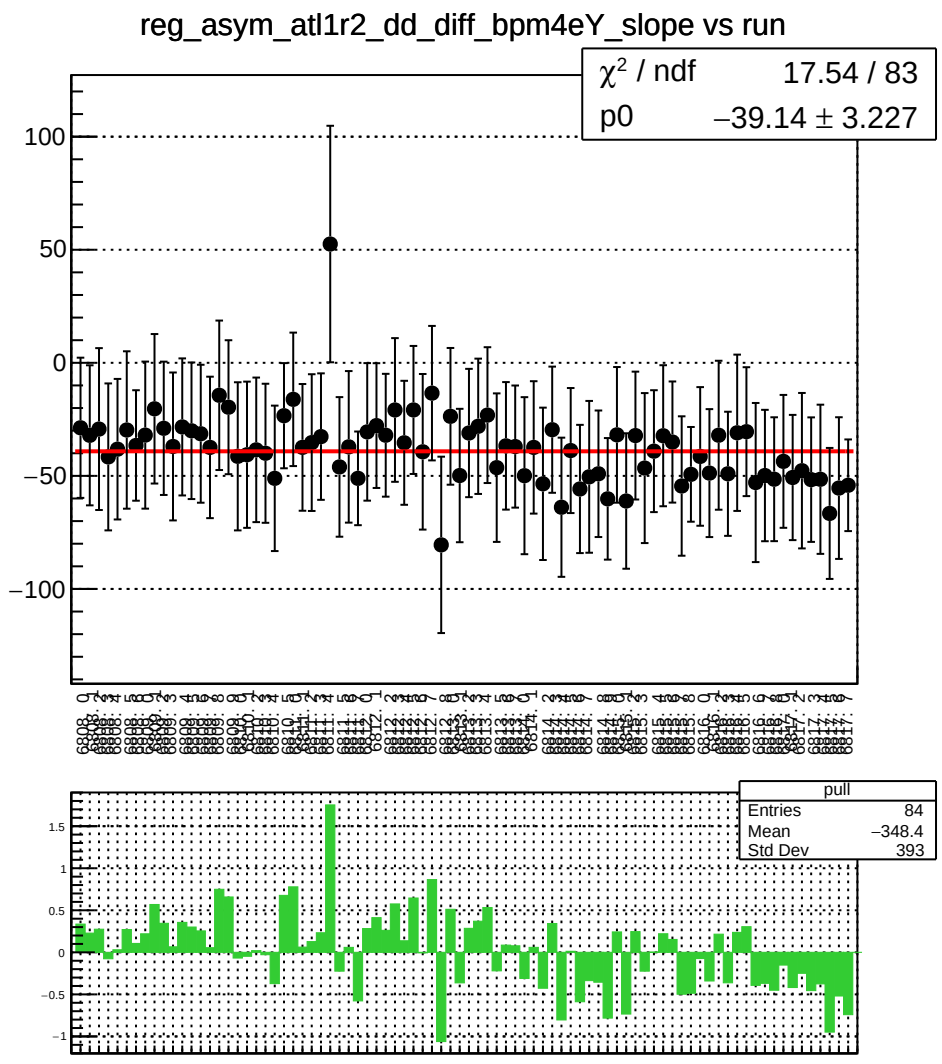

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 27.83 / 83
p0 244.7 ± 4.17
350
300
250
200
150
pull
Entries 84
Mean −44.81
Std Dev 73.22
1
0.5
0
−0.5
−1
−1.5

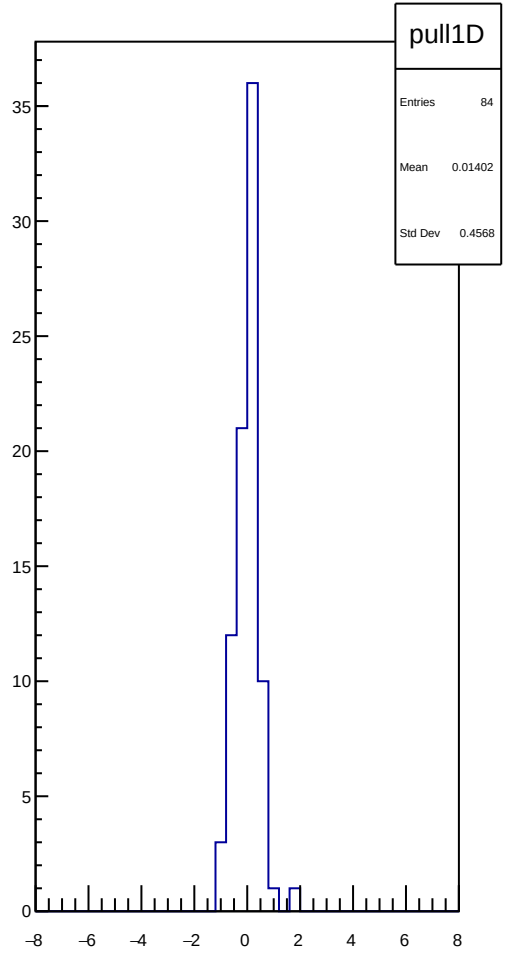

pull1D
Entries 84
Mean 0.01175
Std Dev 0.5755
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

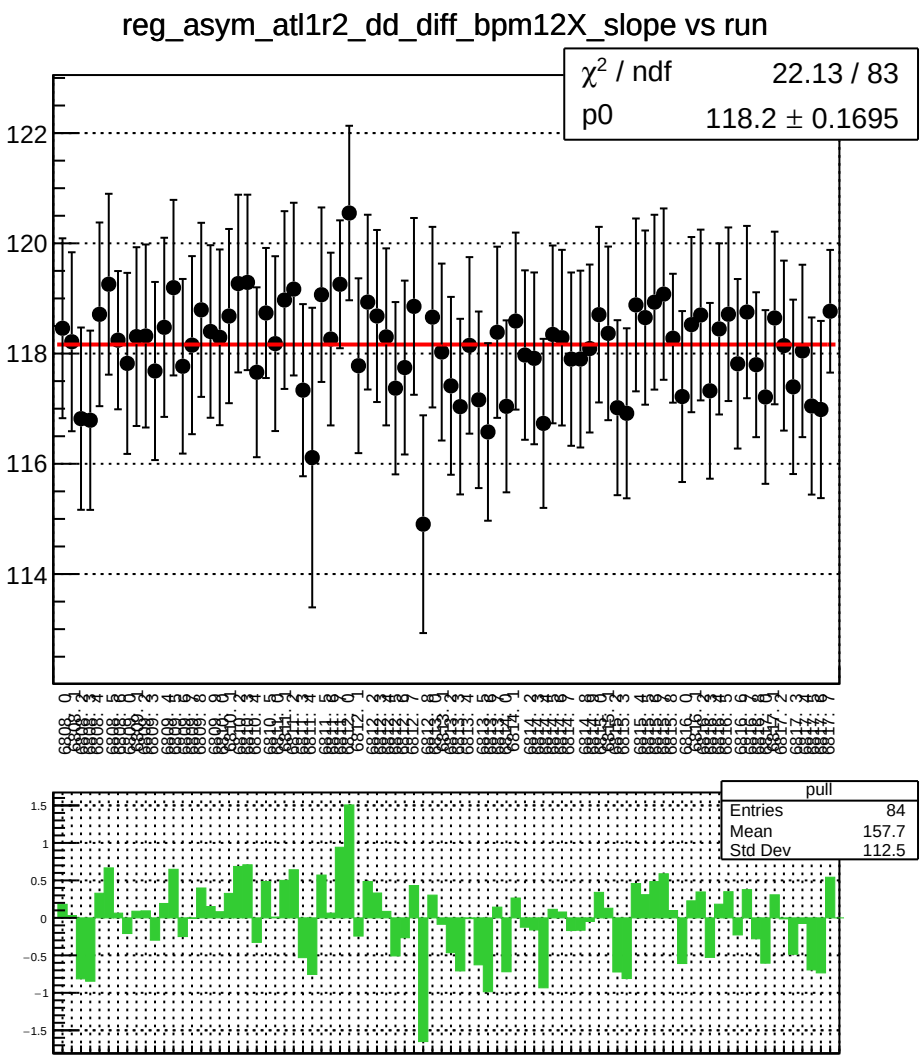

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.05 / 83
p0 −17.84 ± 2.67
50
0
−50
−100
−150
pull
Entries 84
Mean −229.7
Std Dev 274
1
0.5
0
−0.5
−1
−1.5
−2

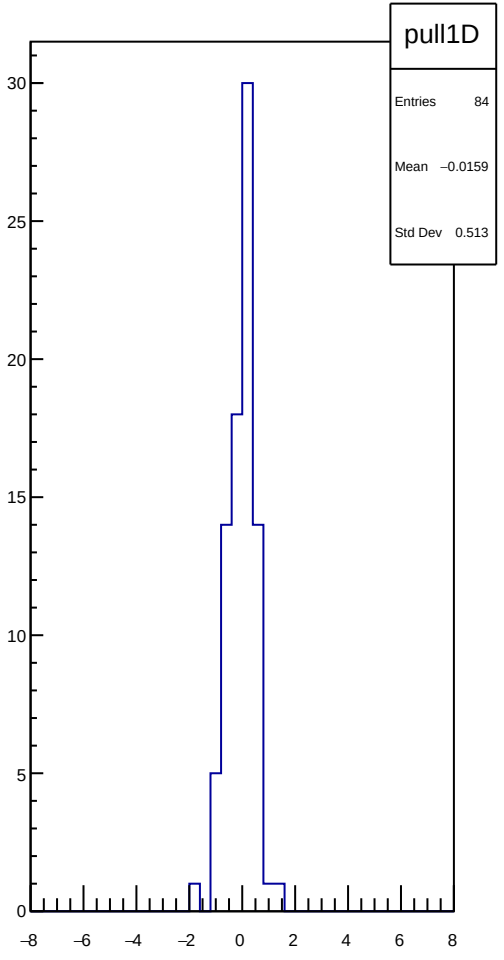

pull1D
Entries 84
Mean −0.0178
Std Dev 0.4759
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

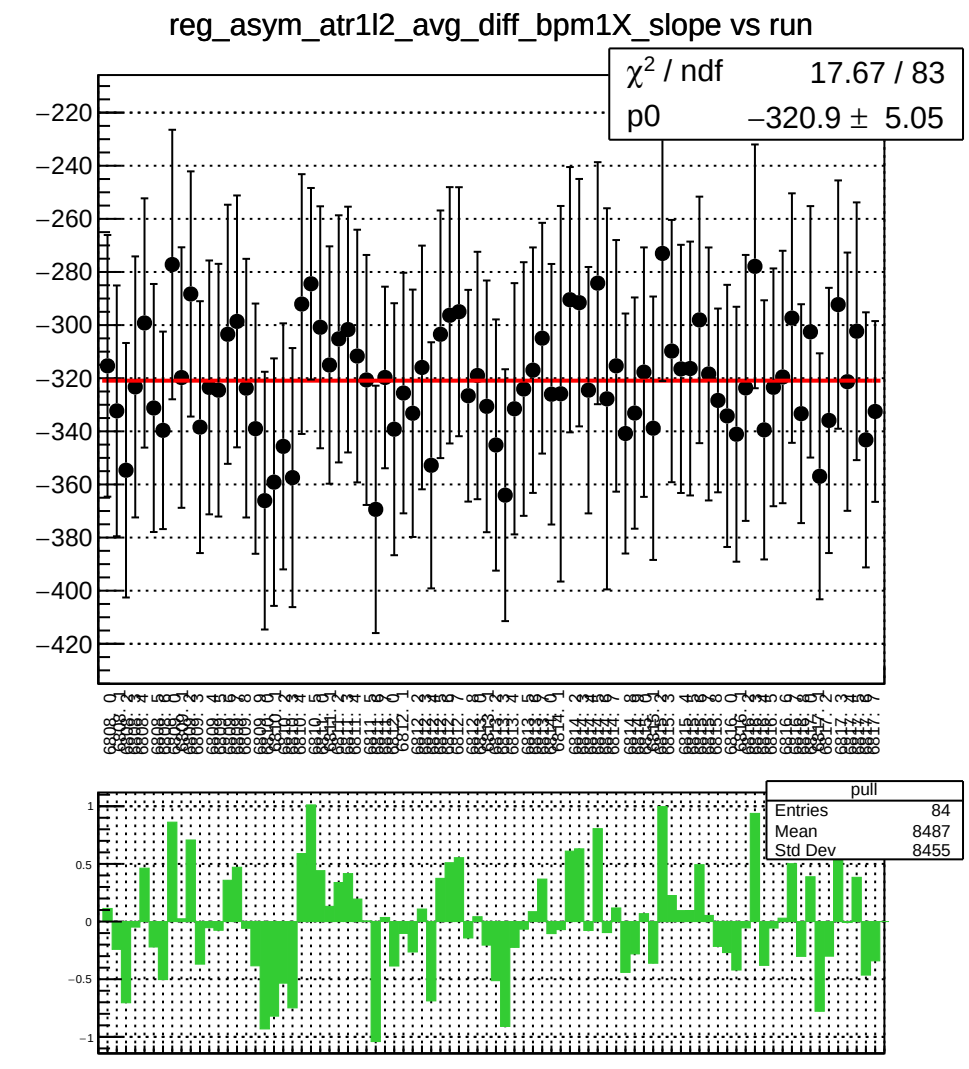

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.78 / 83
p0 −262 ± 3.899
−150
−200
−250
−300
−350
pull
Entries 84
Mean −37.86
Std Dev 65.34
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean −0.01207
Std Dev 0.5645
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

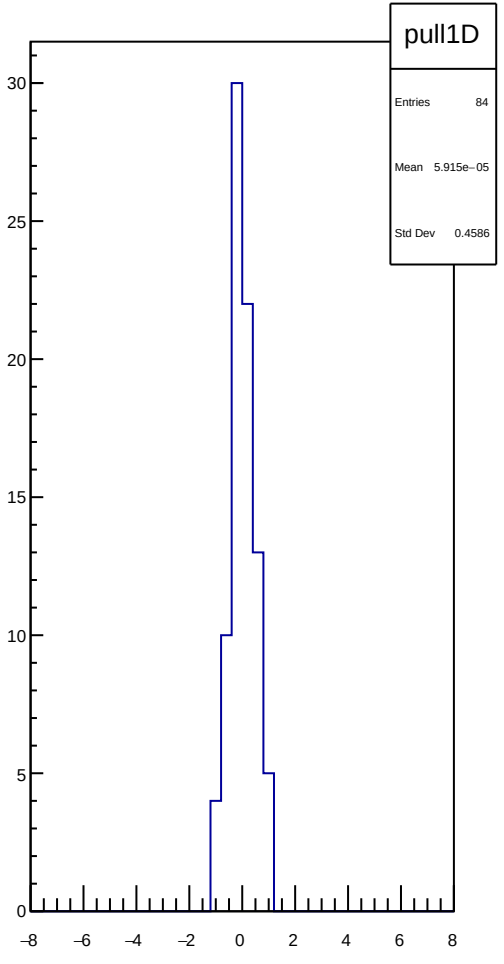

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.54 / 83
p0 −39.14 ± 3.227
100
50
0
−50
−100
pull
Entries 84
Mean −348.4
Std Dev 393
1.5
1
0.5
0
−0.5
−1

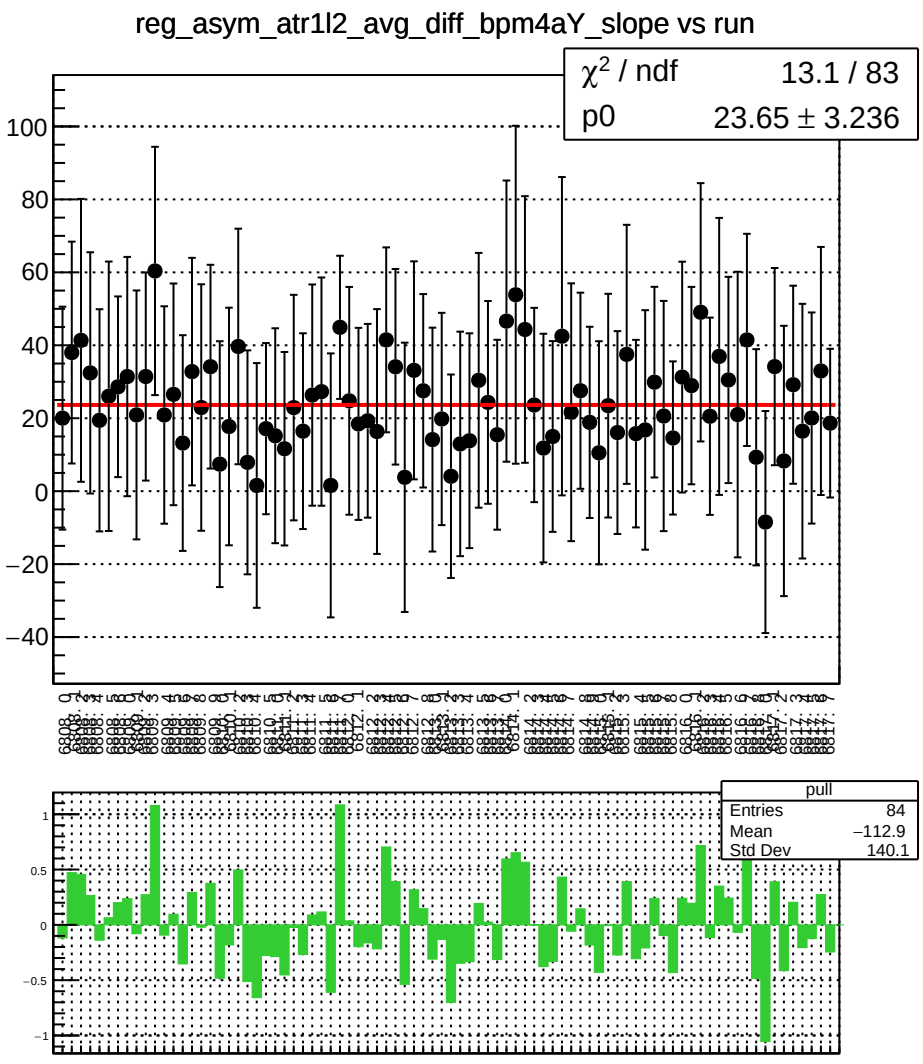

pull1D
Entries 84
Mean 0.01402
Std Dev 0.4568
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

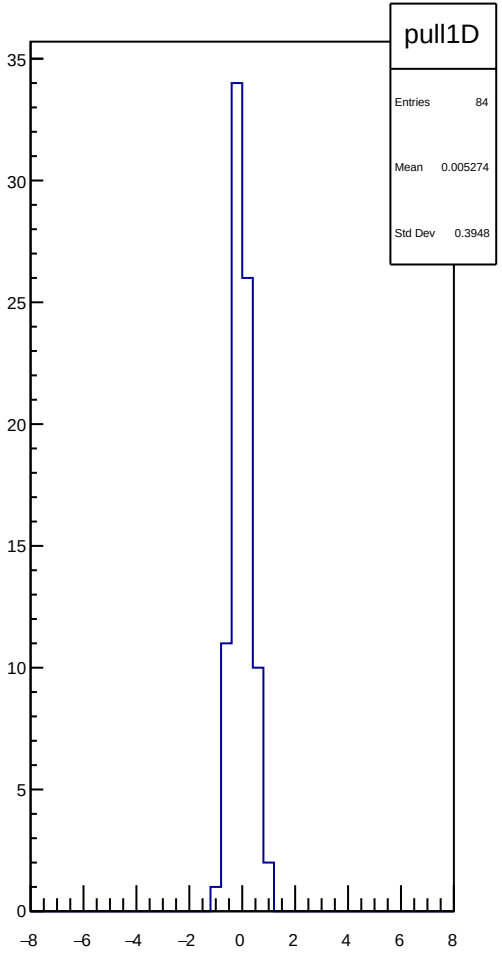

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 22.13 / 83
p0 118.2 ± 0.1695
122
120
118
116
114
pull
Entries 84
Mean 157.7
Std Dev 112.5
1.5
1
0.5
0
−0.5
−1
−1.5

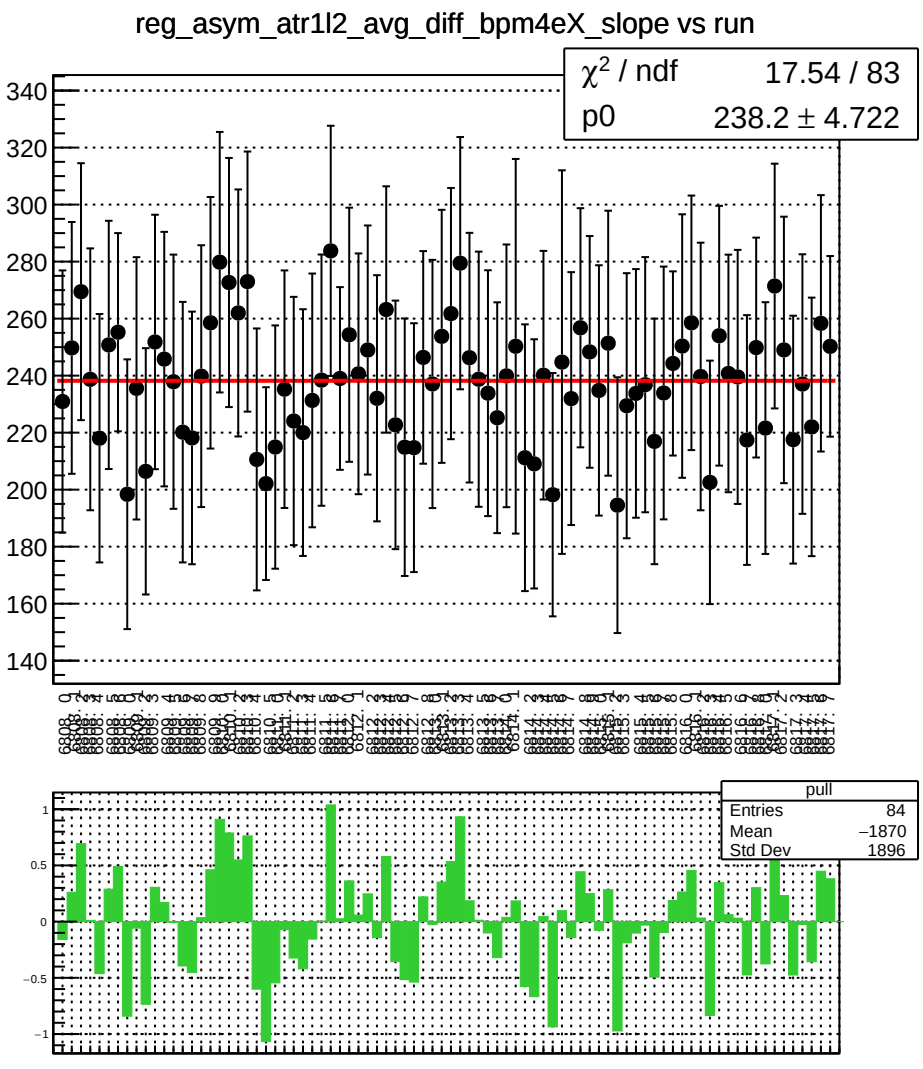

pull1D
Entries 84
Mean −0.0159
Std Dev 0.513
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

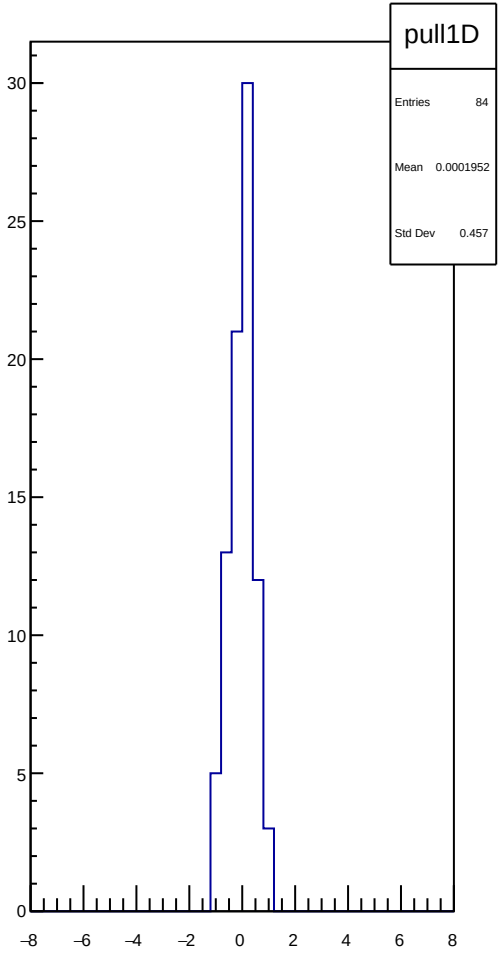

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 17.67 / 83
p0 −320.9 ± 5.05
pull
Entries 84
Mean 8487
Std Dev 8455

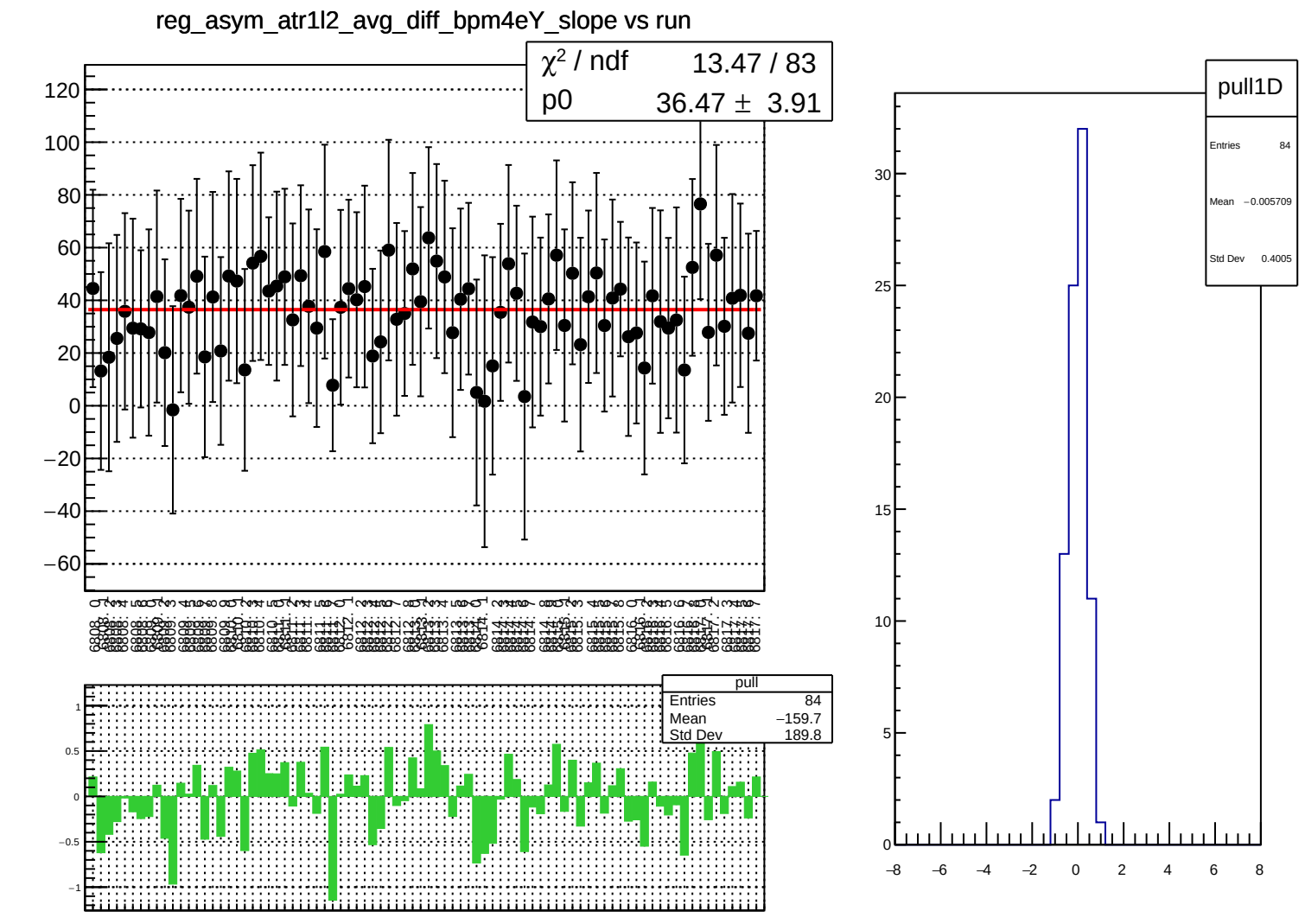

pull1D
Entries 84
Mean 5.915e−05
Std Dev 0.4586

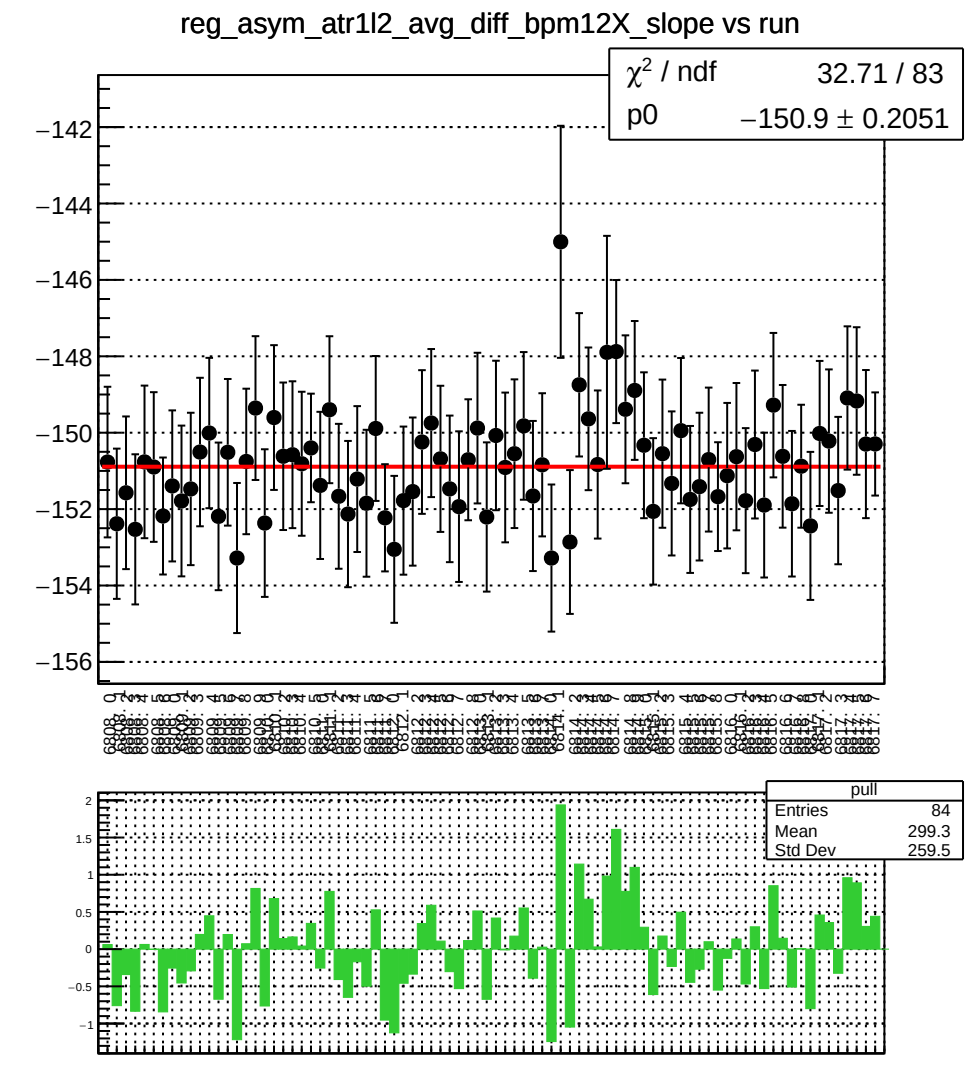

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.1 / 83
p0 23.65 ± 3.236
pull
Entries 84
Mean −112.9
Std Dev 140.1

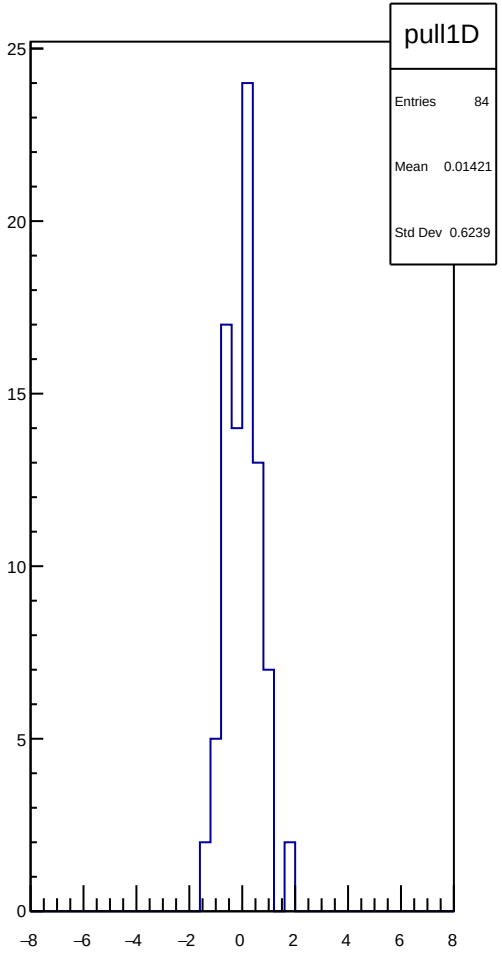

pull1D
Entries 84
Mean 0.005274
Std Dev 0.3948

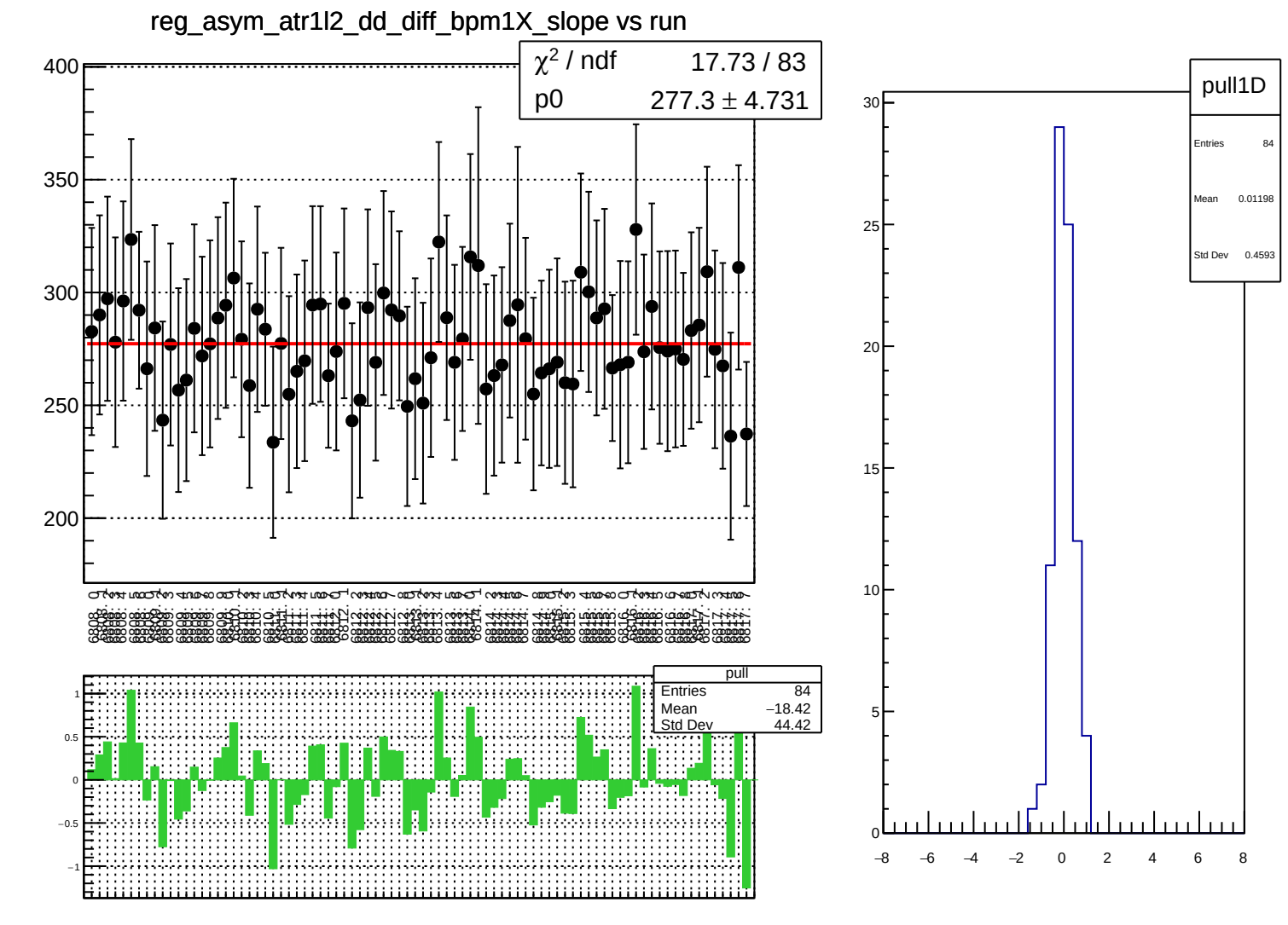

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.54 / 83
p0 238.2 ± 4.722
pull
Entries 84
Mean −1870
Std Dev 1896

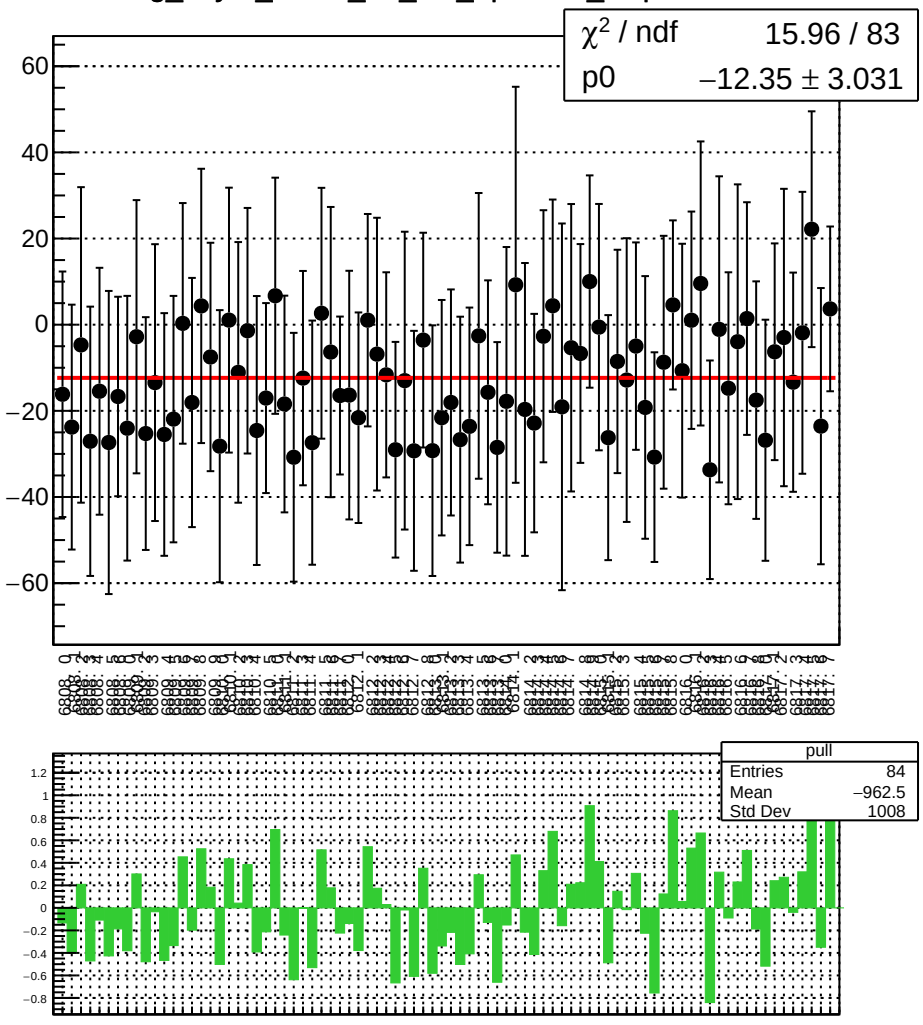

pull1D
Entries 84
Mean 0.0001952
Std Dev 0.457

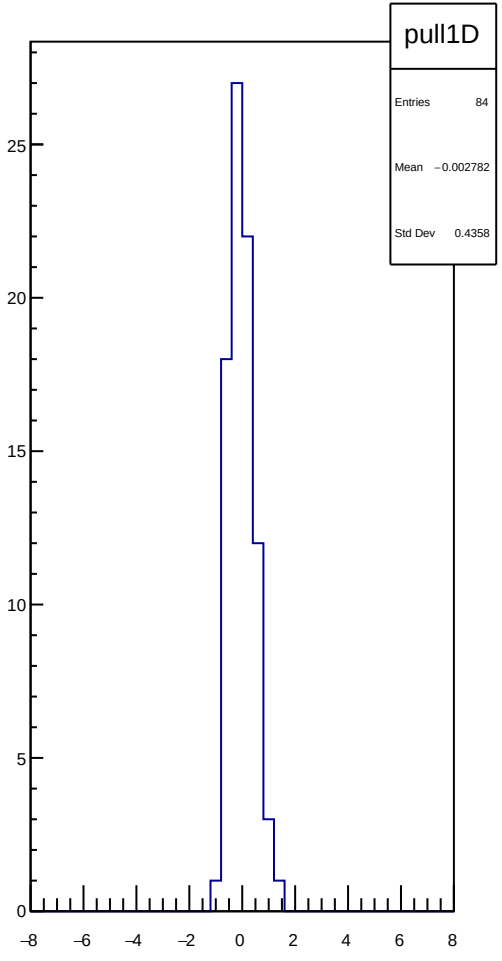

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.47 / 83
p0 36.47 ± 3.91
pull
Entries 84
Mean −159.7
Std Dev 189.8
pull1D
Entries 84
Mean −0.005709
Std Dev 0.4005

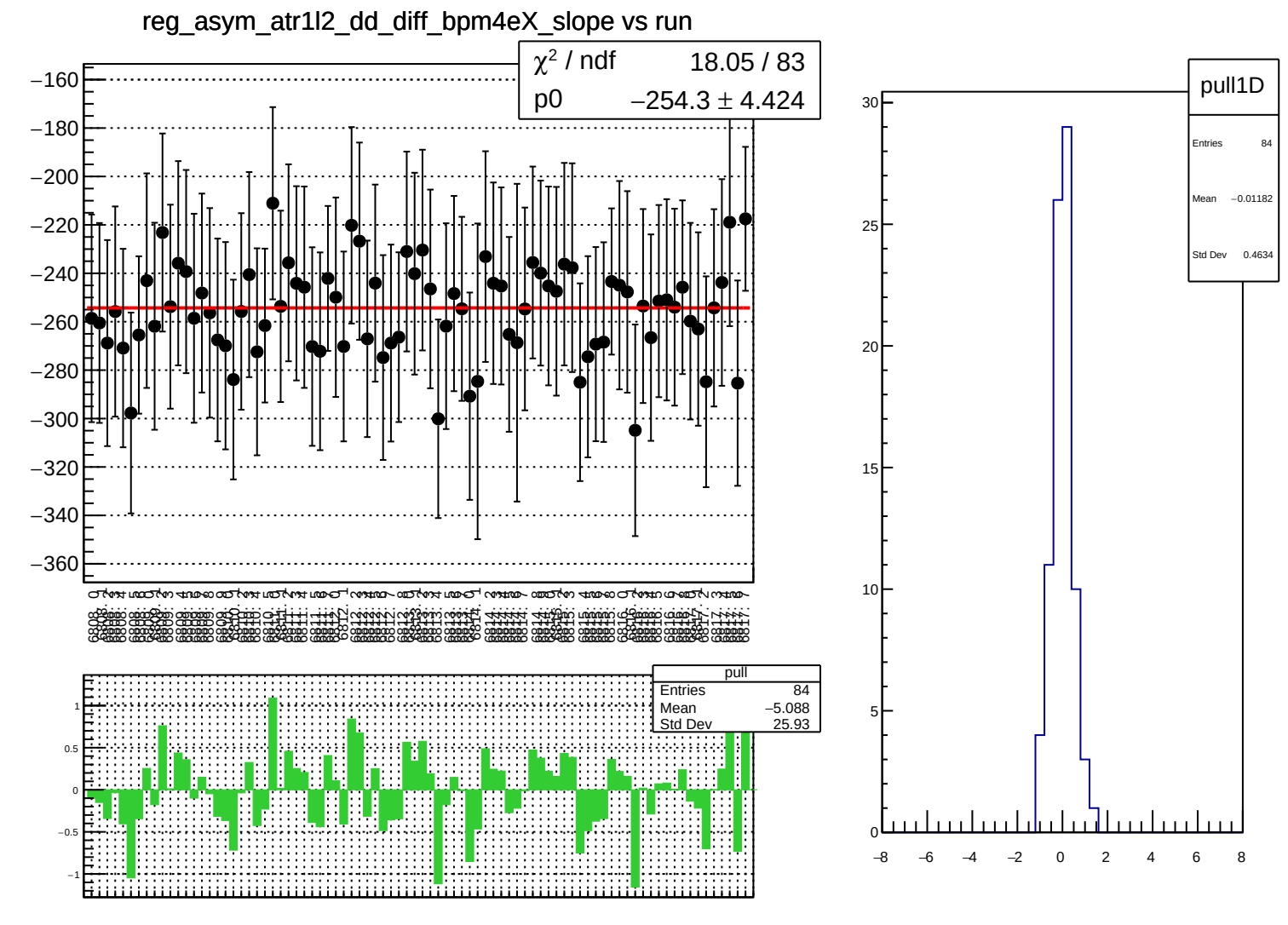

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 32.71 / 83
p0 −150.9 ± 0.2051
pull
Entries 84
Mean 299.3
Std Dev 259.5

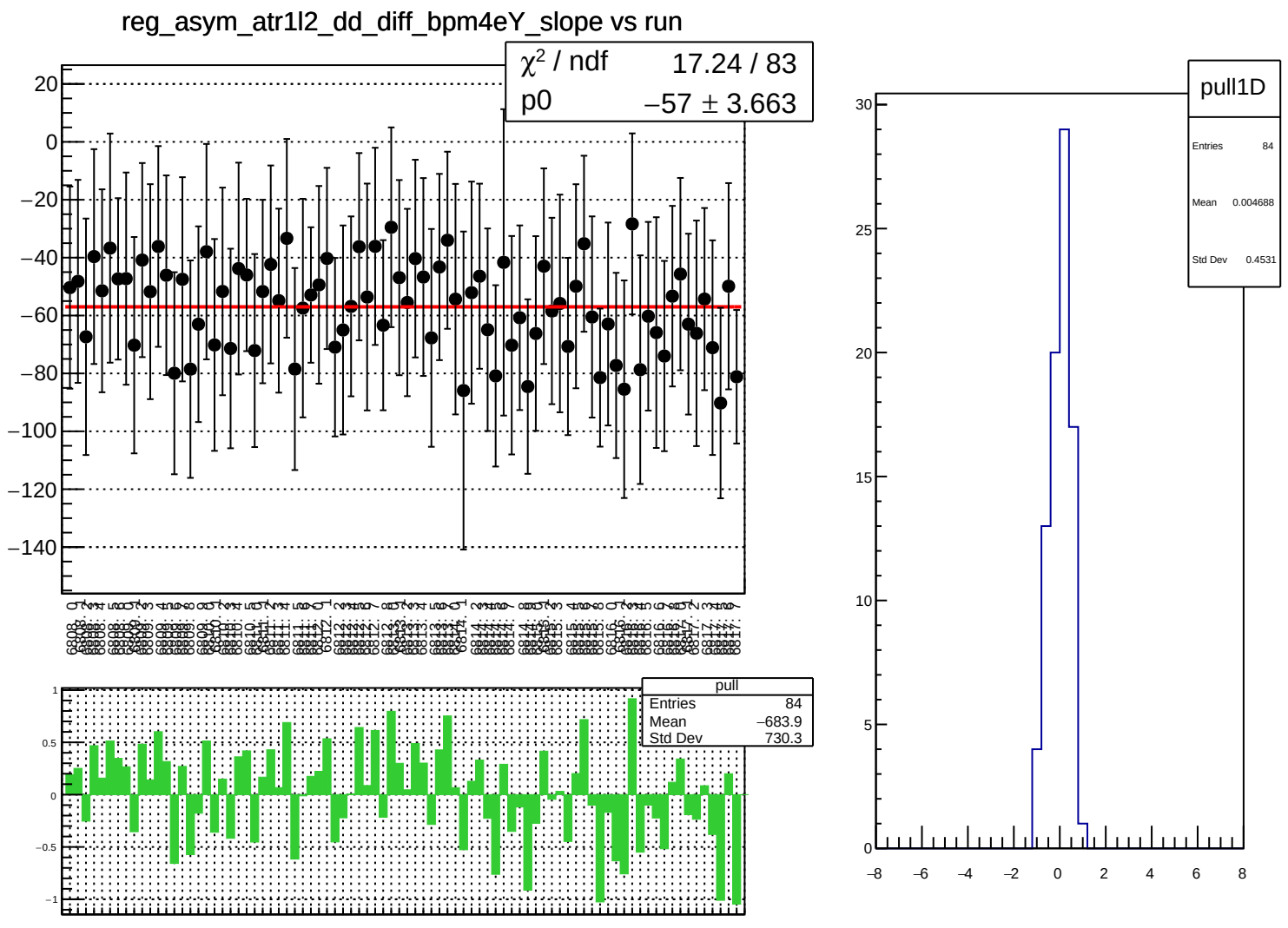

pull1D
Entries 84
Mean 0.01421
Std Dev 0.6239

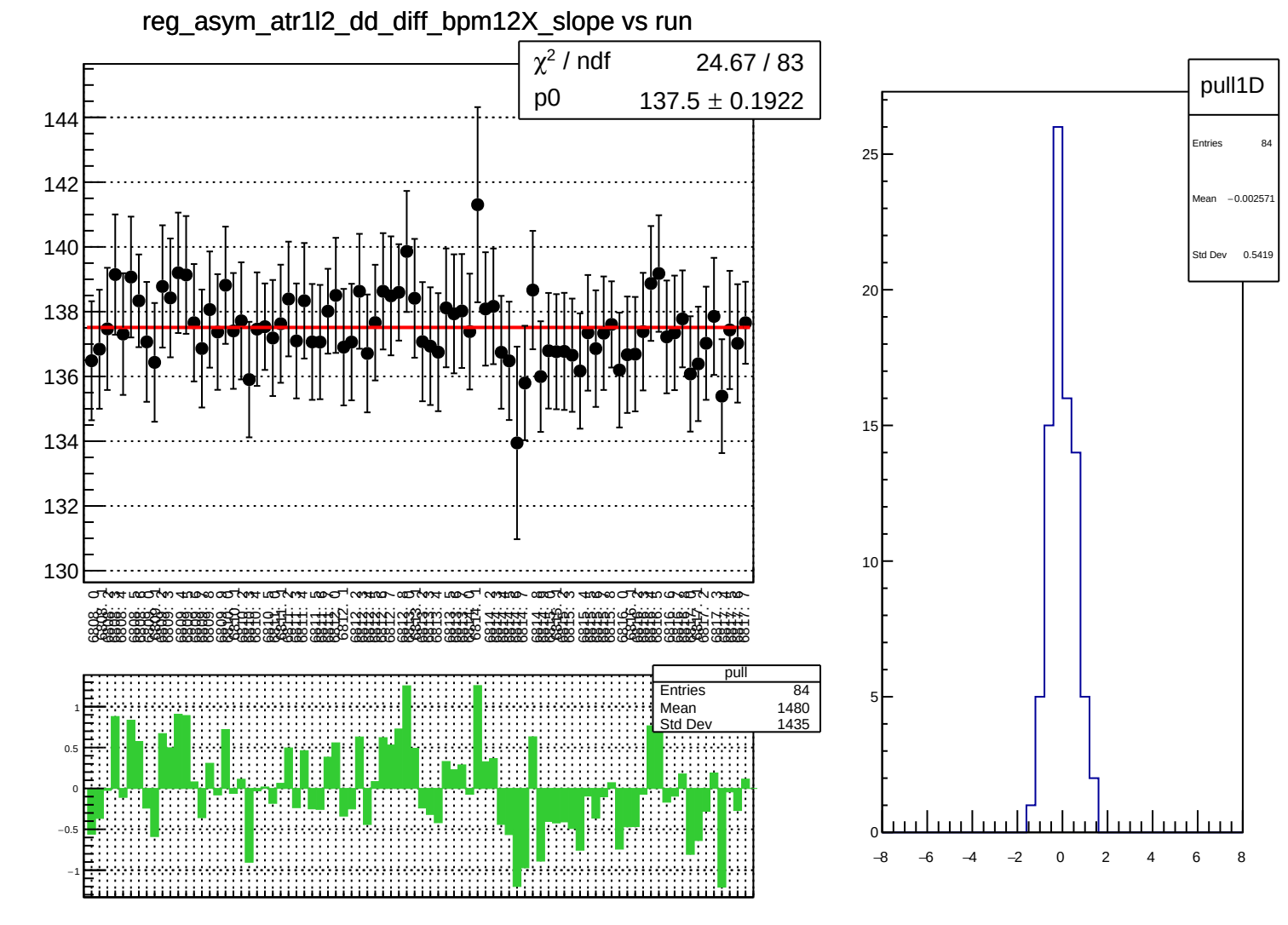

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 17.73 / 83
p0 277.3 ± 4.731
400
350
300
250
200
pull
Entries 84
Mean −18.42
Std Dev 44.42
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean 0.01198
Std Dev 0.4593
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

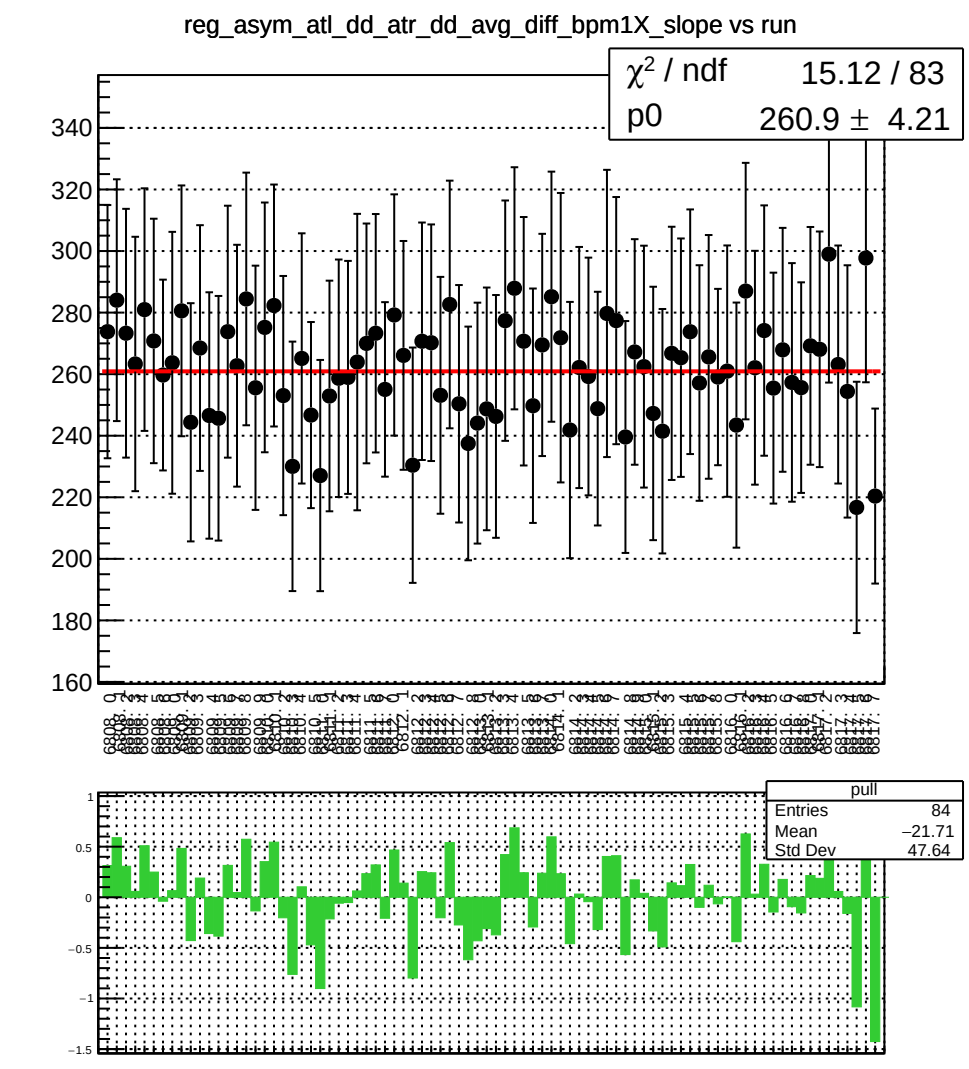

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.96 / 83
p0 −12.35 ± 3.031
pull
Entries 84
Mean −962.5
Std Dev 1008

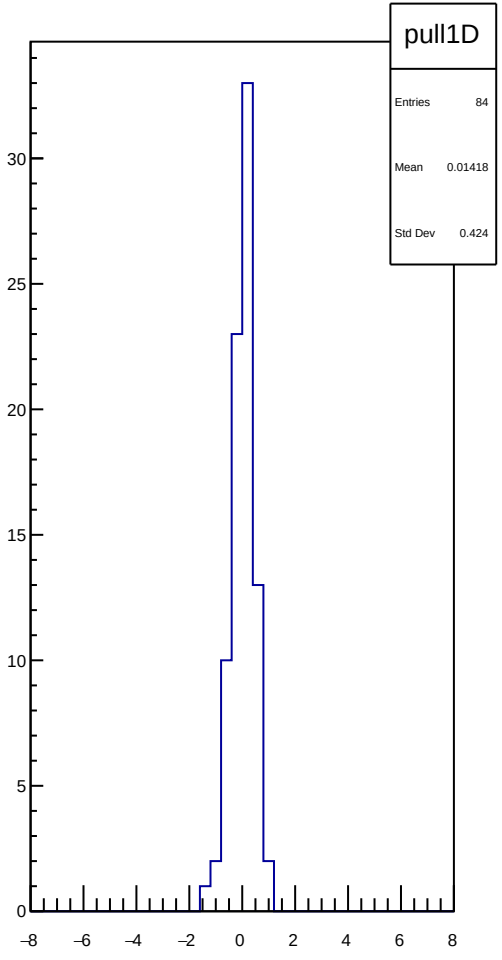

pull1D
Entries 84
Mean −0.002782
Std Dev 0.4358

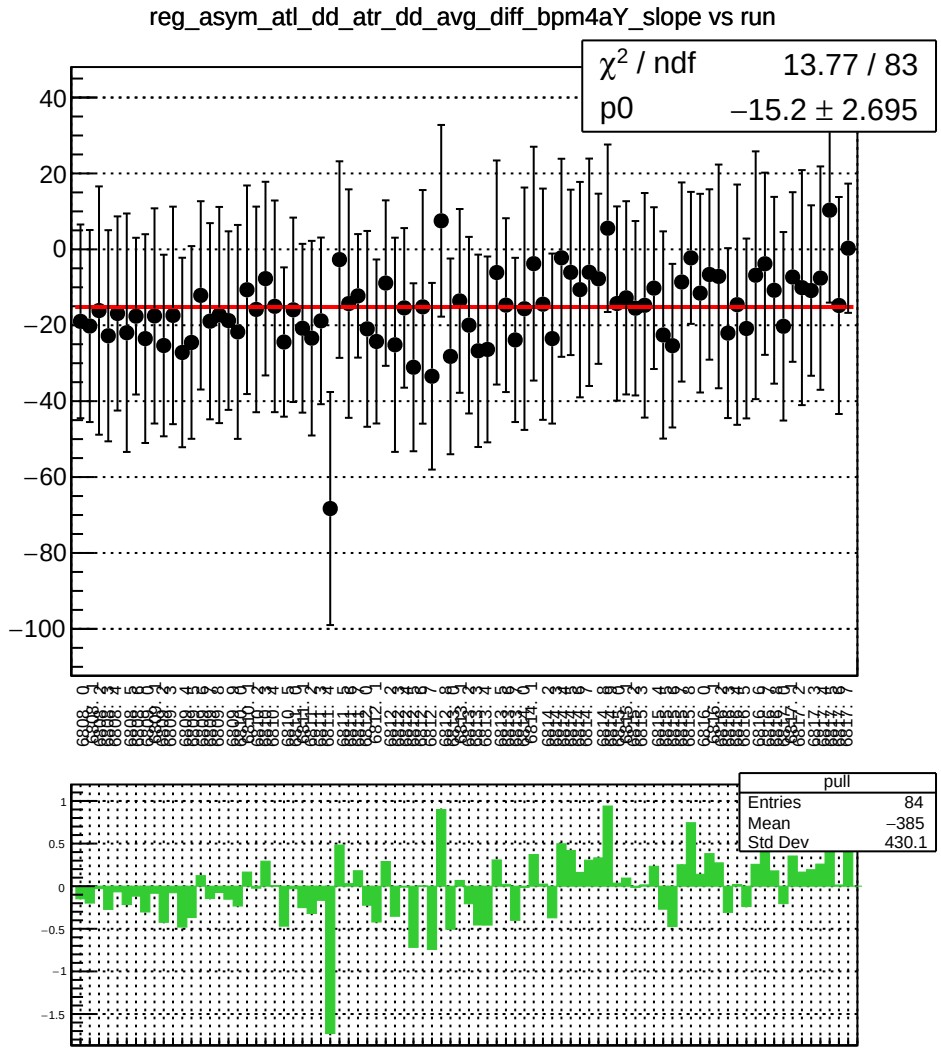

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.05 / 83
p0 −254.3 ± 4.424
pull
Entries 84
Mean −5.088
Std Dev 25.93
pull1D
Entries 84
Mean −0.01182
Std Dev 0.4634

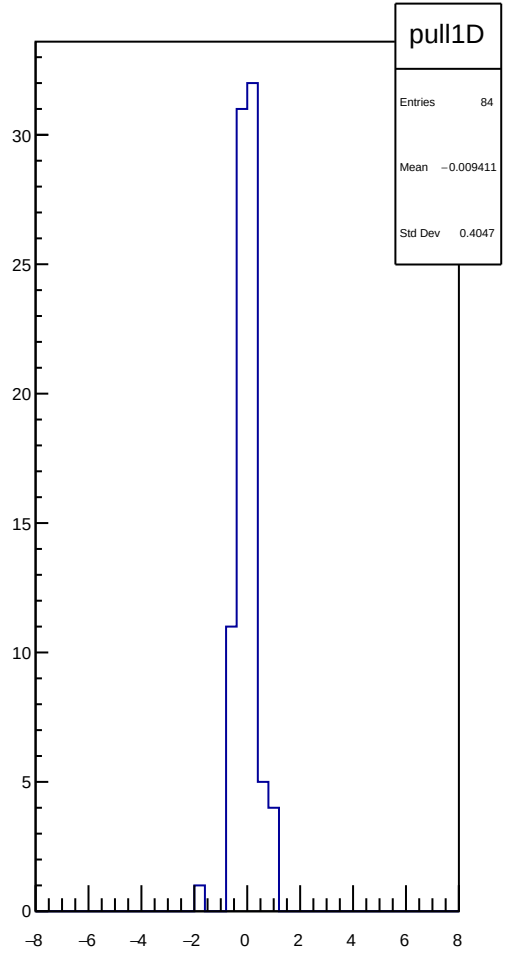

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.24 / 83
p0 −57 ± 3.663
pull
Entries 84
Mean −683.9
Std Dev 730.3
pull1D
Entries 84
Mean 0.004688
Std Dev 0.4531

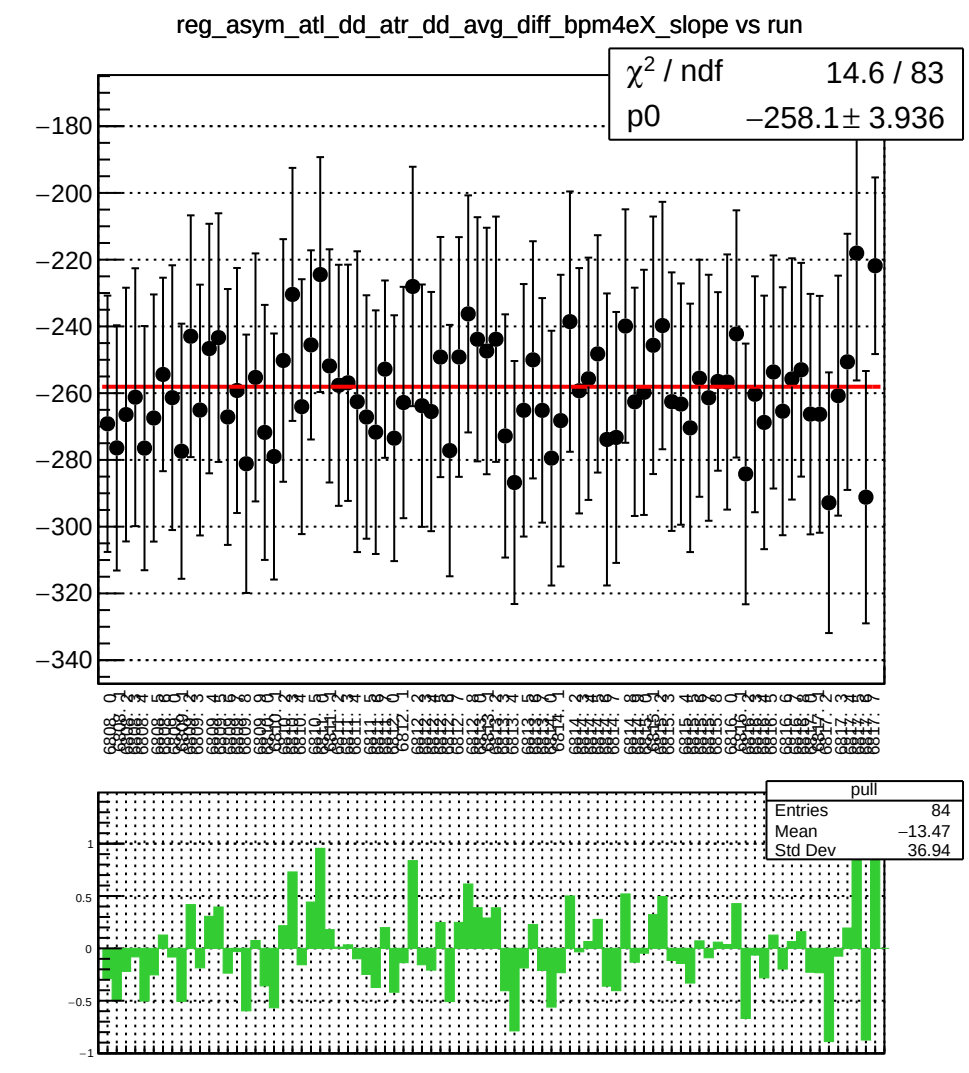

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 24.67 / 83
p0 137.5 ± 0.1922
144
142
140
138
136
134
132
130
pull
Entries 84
Mean 1480
Std Dev 1435
1
0.5
0
−0.5
−1
pull1D
Entries 84
Mean −0.002571
Std Dev 0.5419
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

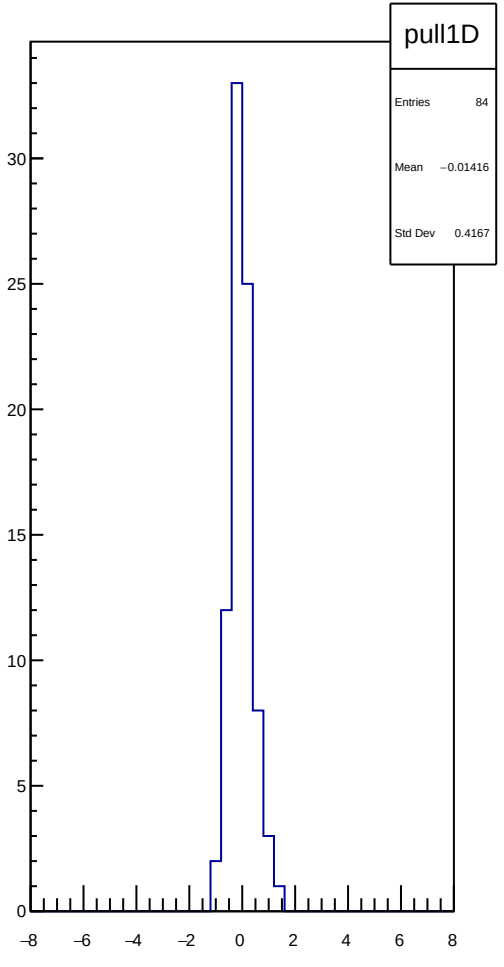

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 15.12 / 83
p0 260.9 ± 4.21
pull
Entries 84
Mean −21.71
Std Dev 47.64

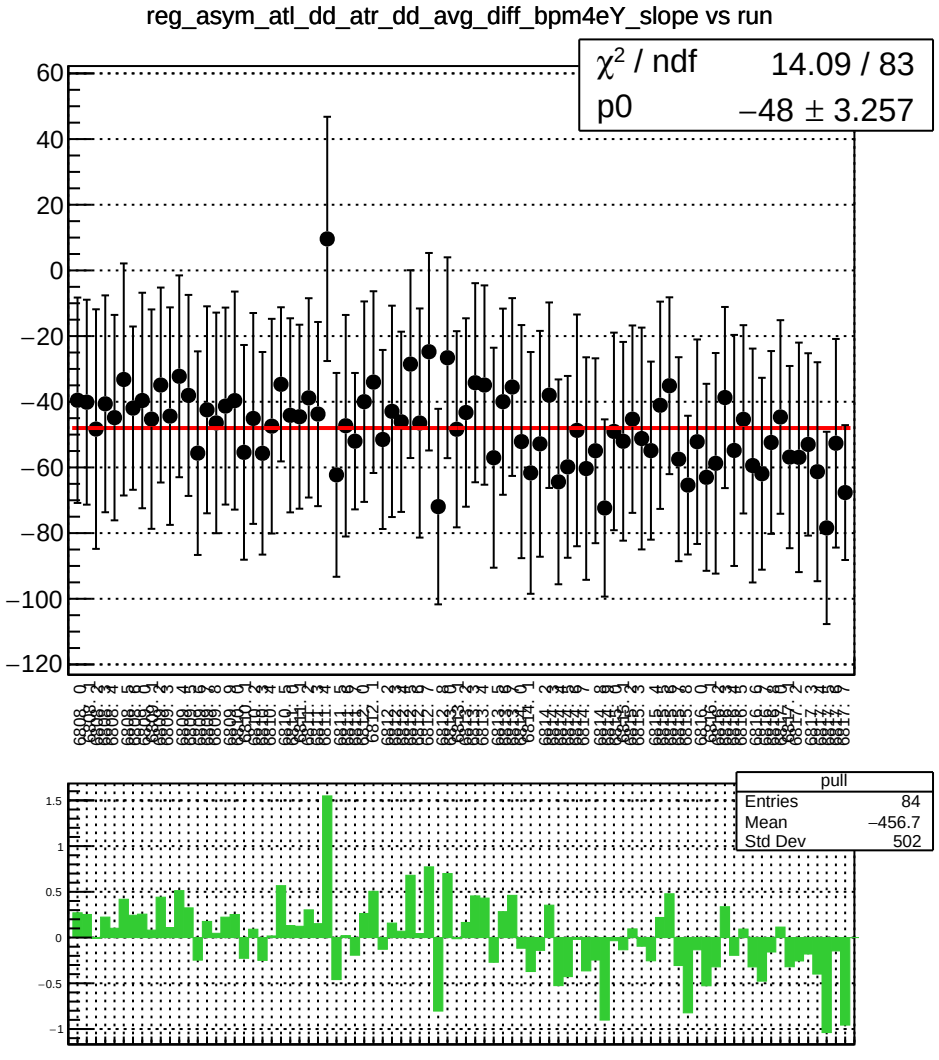

pull1D
Entries 84
Mean 0.01418
Std Dev 0.424

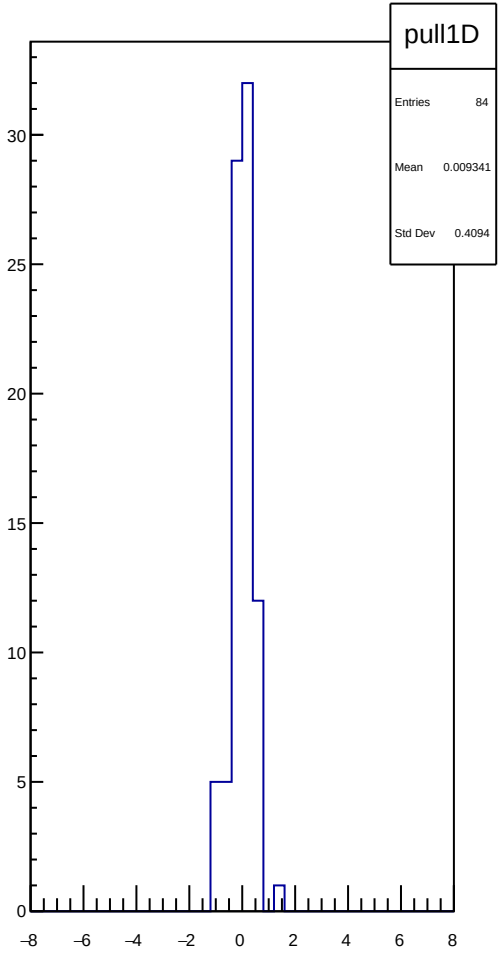

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.77 / 83
p0 −15.2 ± 2.695
pull
Entries 84
Mean −385
Std Dev 430.1

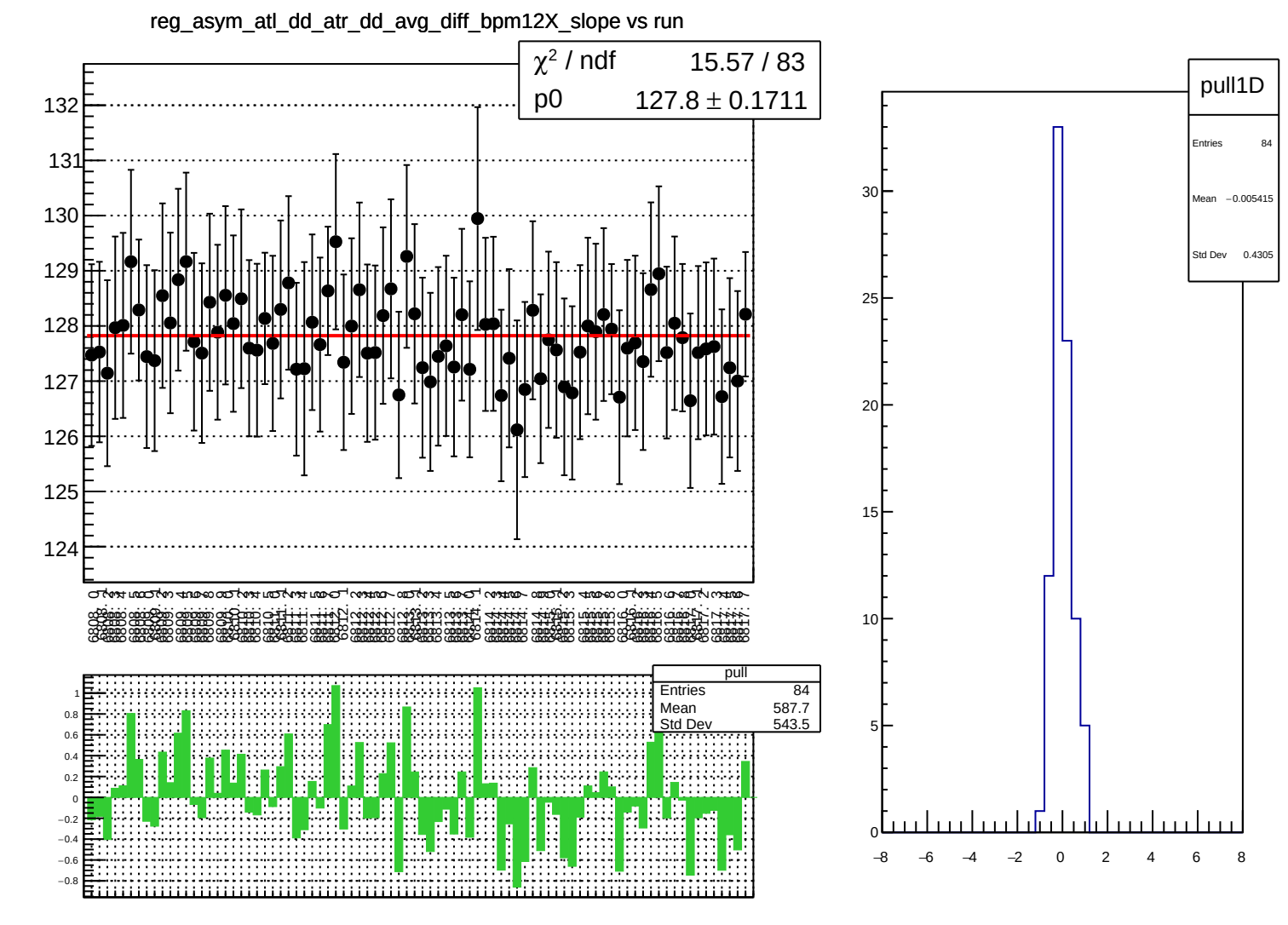

pull1D
Entries 84
Mean −0.009411
Std Dev 0.4047

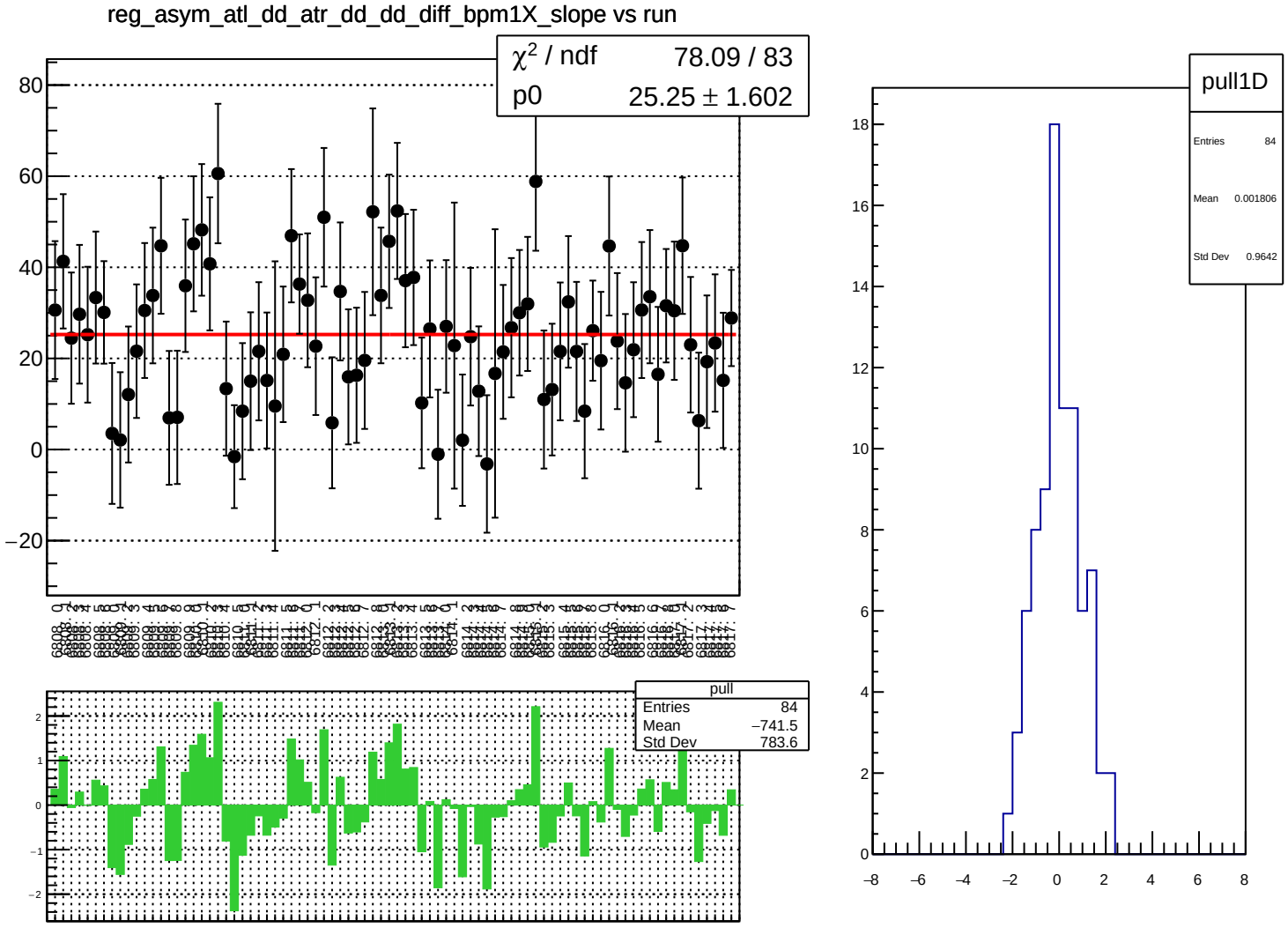

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.6 / 83
p0 −258.1± 3.936
−180
−200
−220
−240
−260
−280
−300
−320
−340
pull
Entries 84
Mean −13.47
Std Dev 36.94
1
0.5
0
−0.5
−1

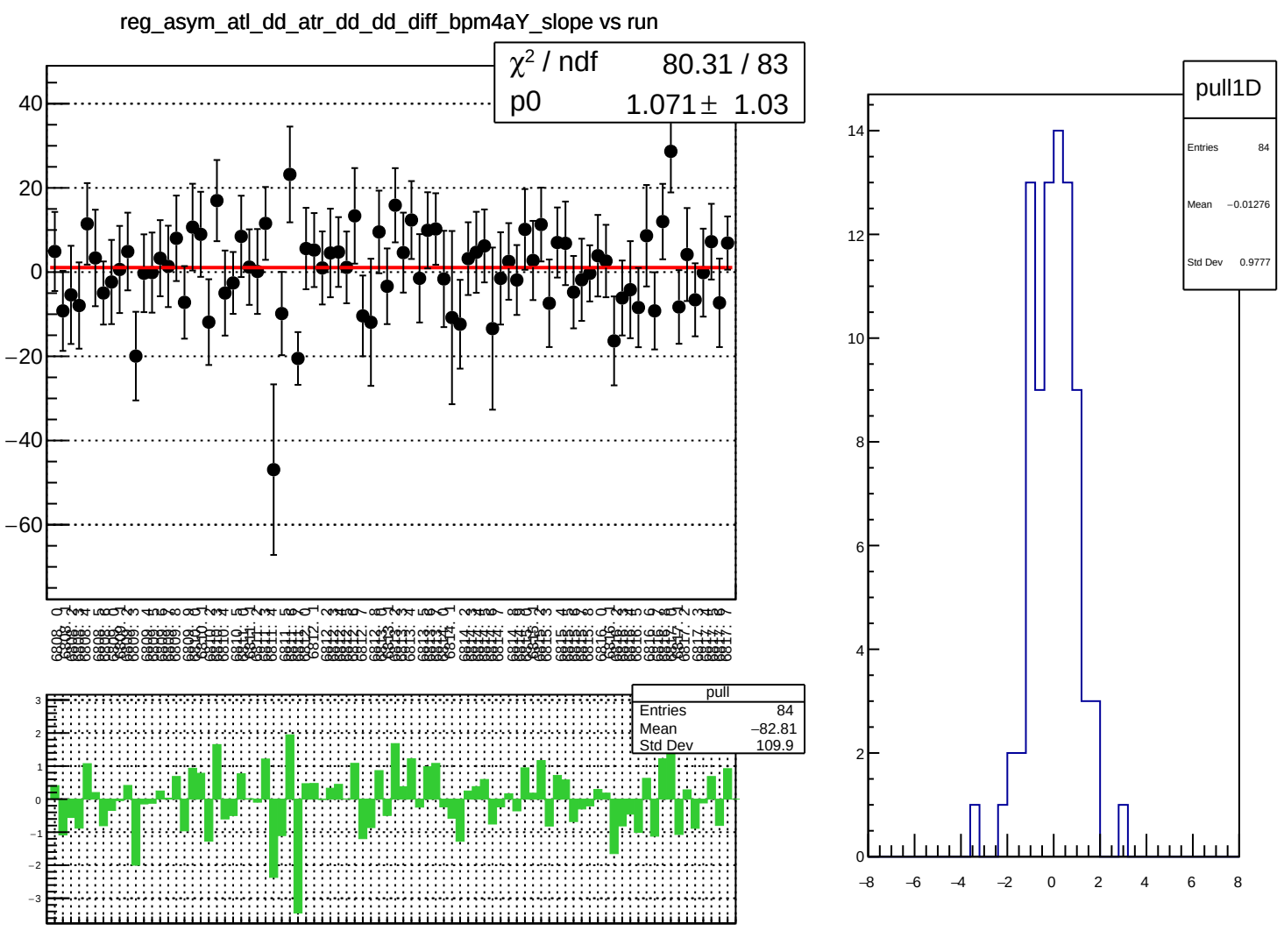

pull1D
Entries 84
Mean −0.01416
Std Dev 0.4167
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

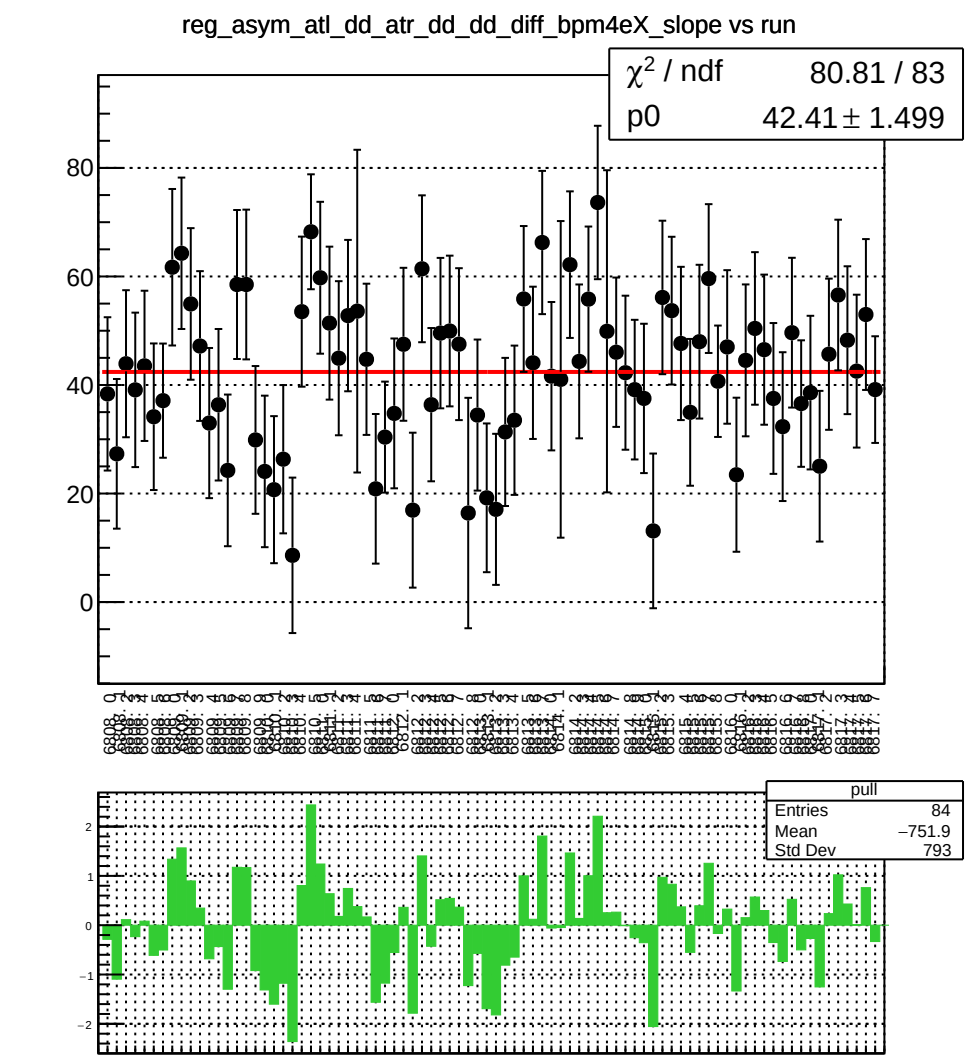

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.09 / 83
p0 −48 ± 3.257
pull
Entries 84
Mean −456.7
Std Dev 502

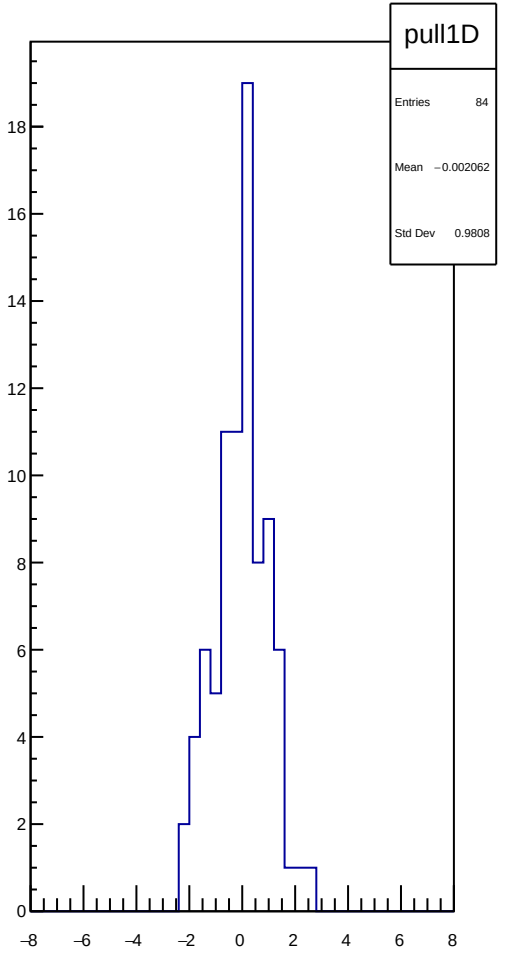

pull1D
Entries 84
Mean 0.009341
Std Dev 0.4094

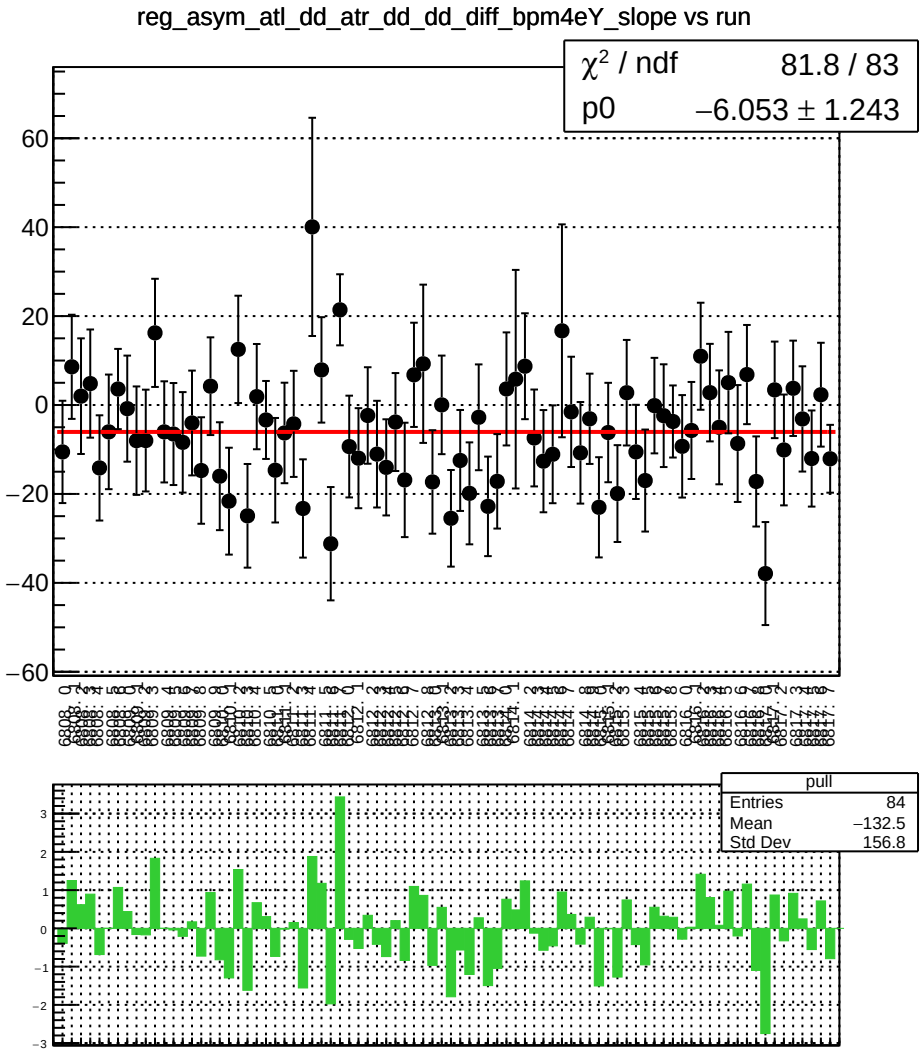

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 15.57 / 83
p0 127.8 ± 0.1711
pull
Entries 84
Mean 587.7
Std Dev 543.5
pull1D
Entries 84
Mean −0.005415
Std Dev 0.4305

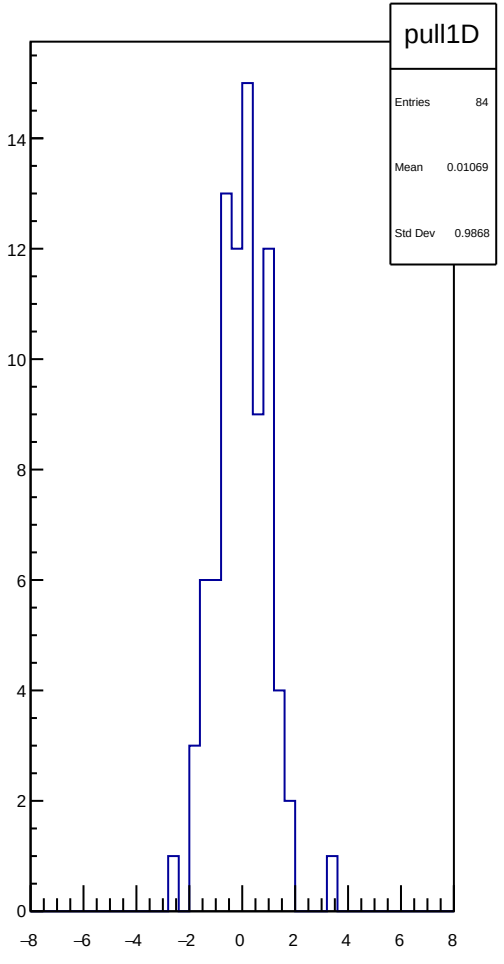

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 78.09 / 83
p0 25.25 ± 1.602
pull
Entries 84
Mean −741.5
Std Dev 783.6
pull1D
Entries 84
Mean 0.001806
Std Dev 0.9642

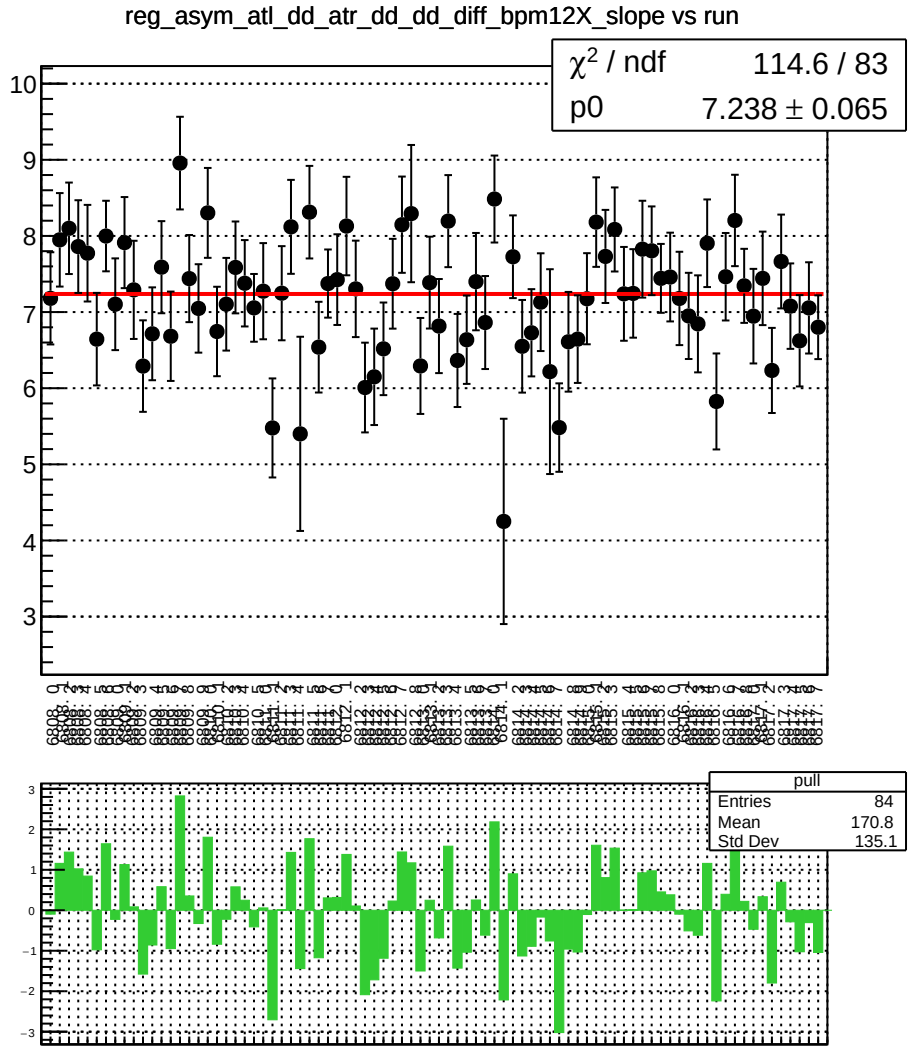

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.31 / 83
p0 1.071 ± 1.03
pull
Entries 84
Mean −82.81
Std Dev 109.9
pull1D
Entries 84
Mean −0.01276
Std Dev 0.9777

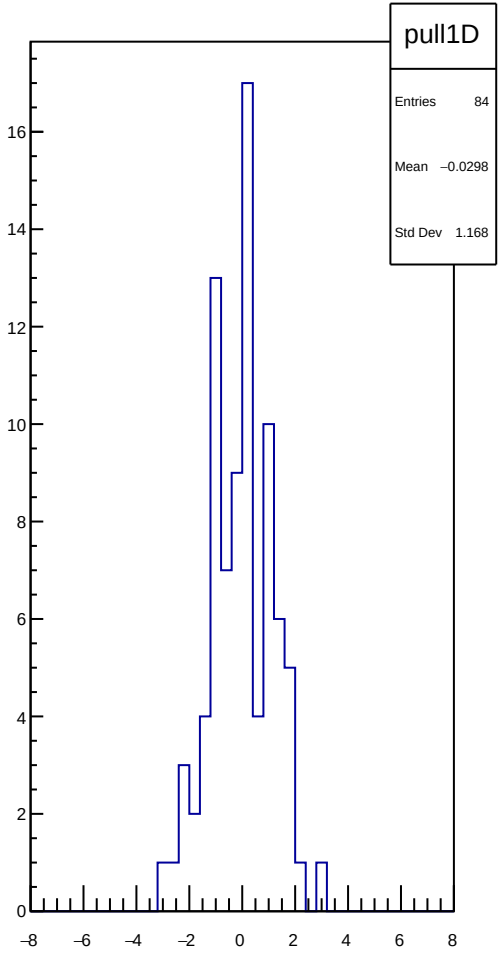

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.81 / 83
p0 42.41 ± 1.499
pull
Entries 84
Mean −751.9
Std Dev 793

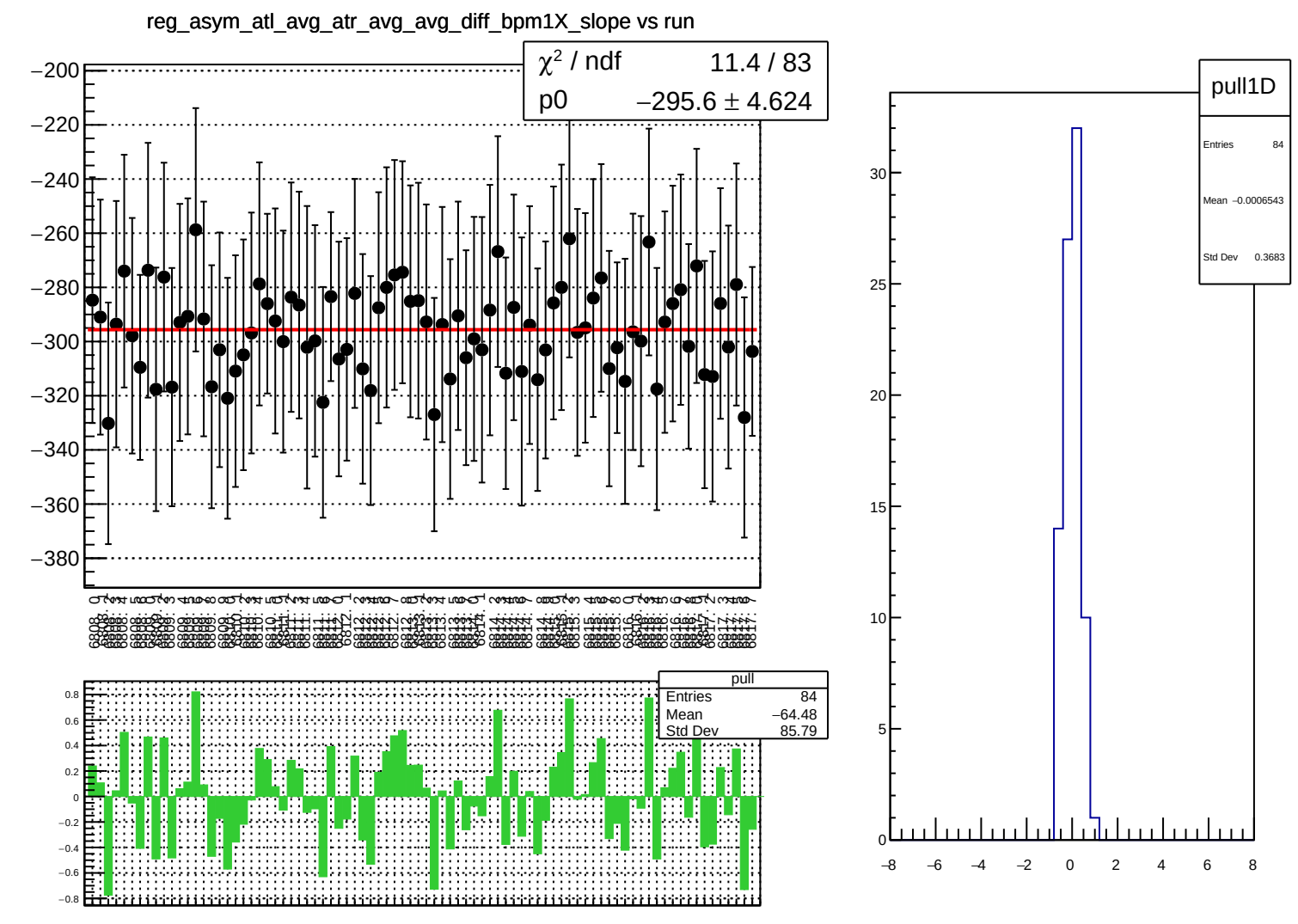

pull1D
Entries 84
Mean −0.002062
Std Dev 0.9808

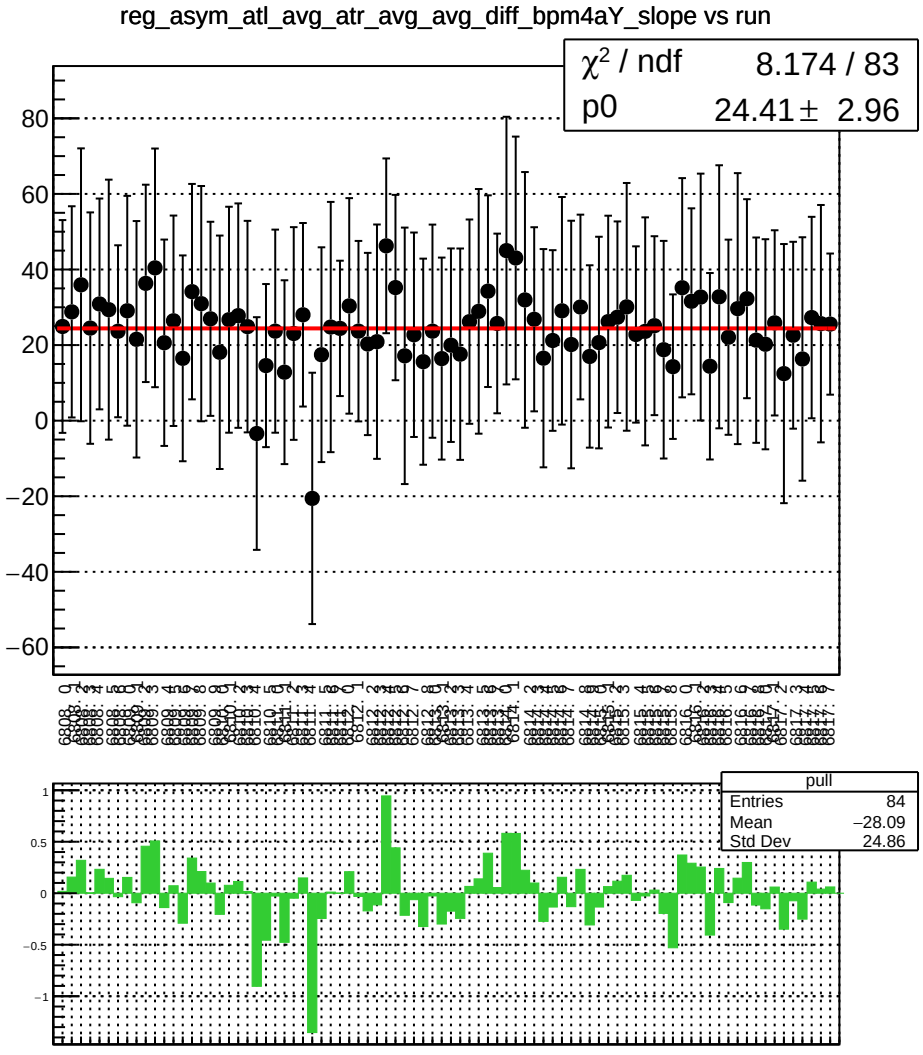

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.8 / 83
p0 −6.053 ± 1.243
pull
Entries 84
Mean −132.5
Std Dev 156.8

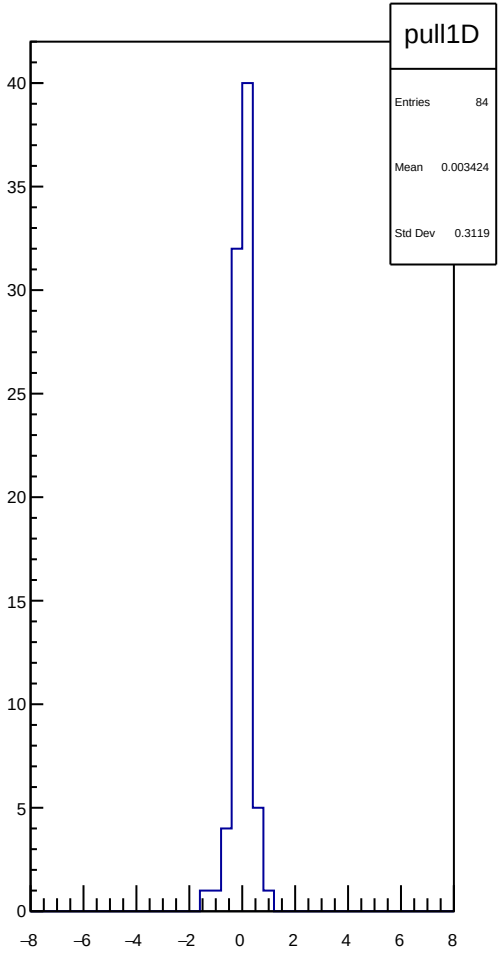

pull1D
Entries 84
Mean 0.01069
Std Dev 0.9868

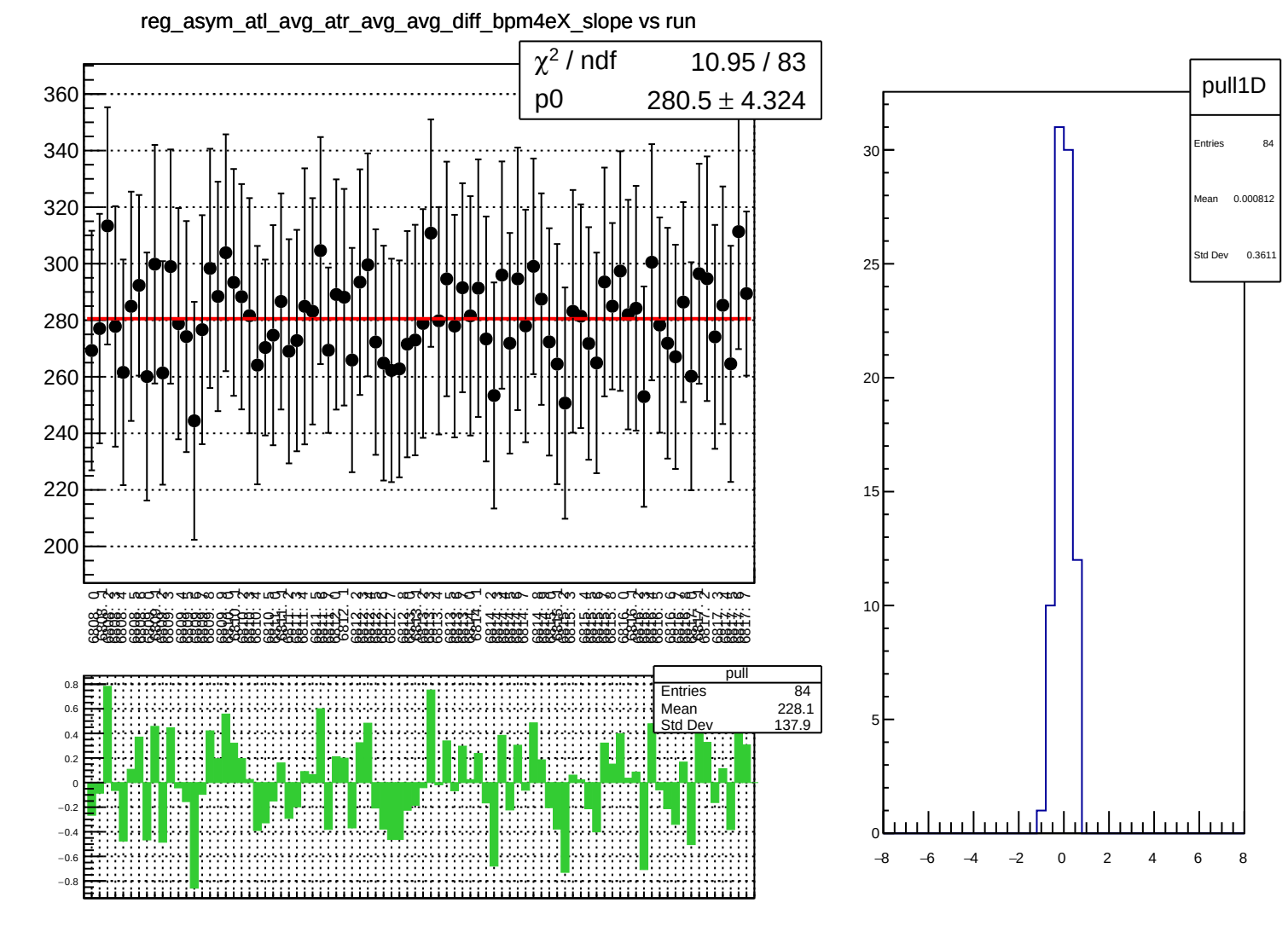

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 114.6 / 83
p0 7.238 ± 0.065
pull
Entries 84
Mean 170.8
Std Dev 135.1

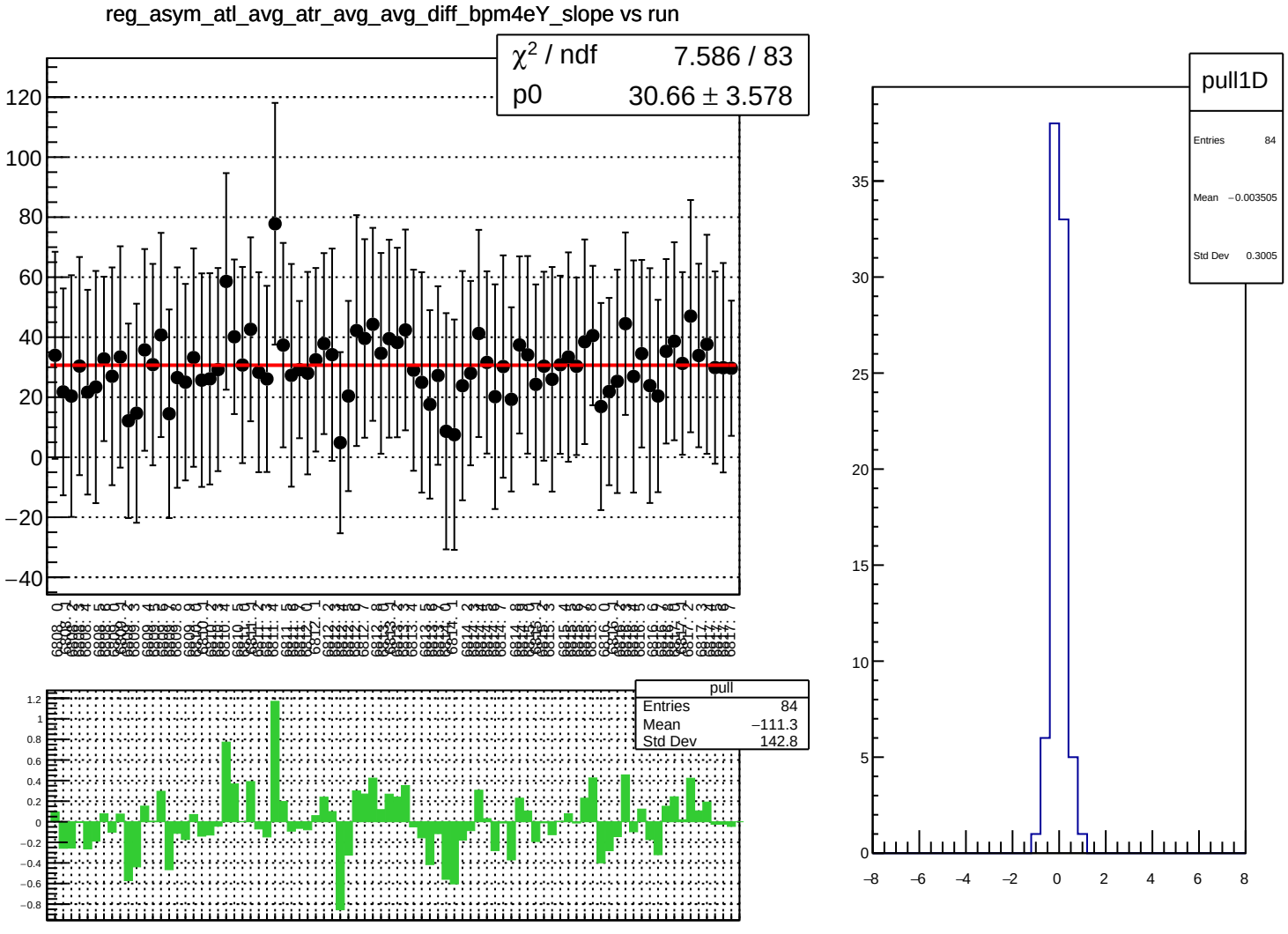

pull1D
Entries 84
Mean −0.0298
Std Dev 1.168

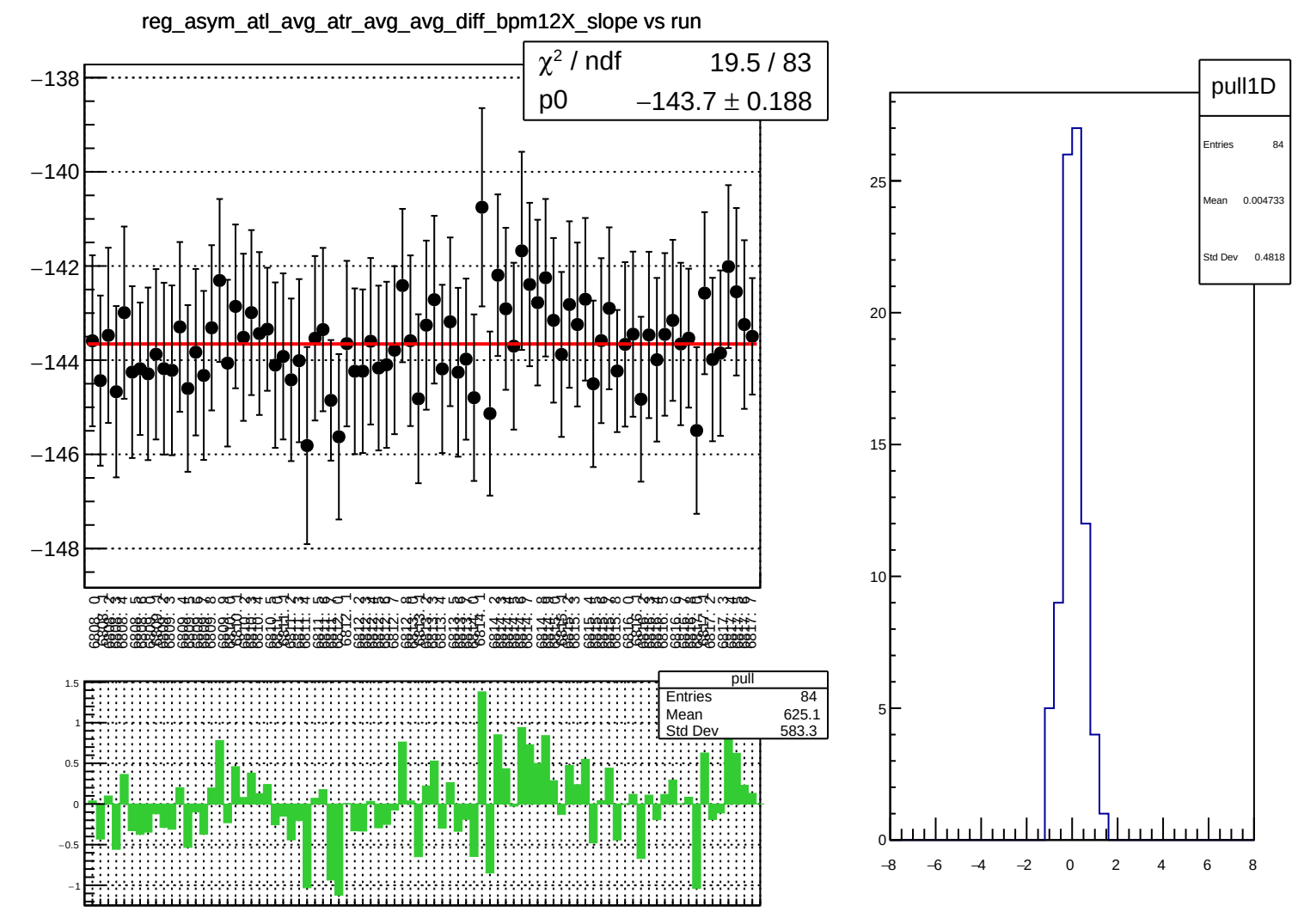

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 11.4 / 83
p0 −295.6 ± 4.624
pull
Entries 84
Mean −64.48
Std Dev 85.79
pull1D
Entries 84
Mean −0.0006543
Std Dev 0.3683

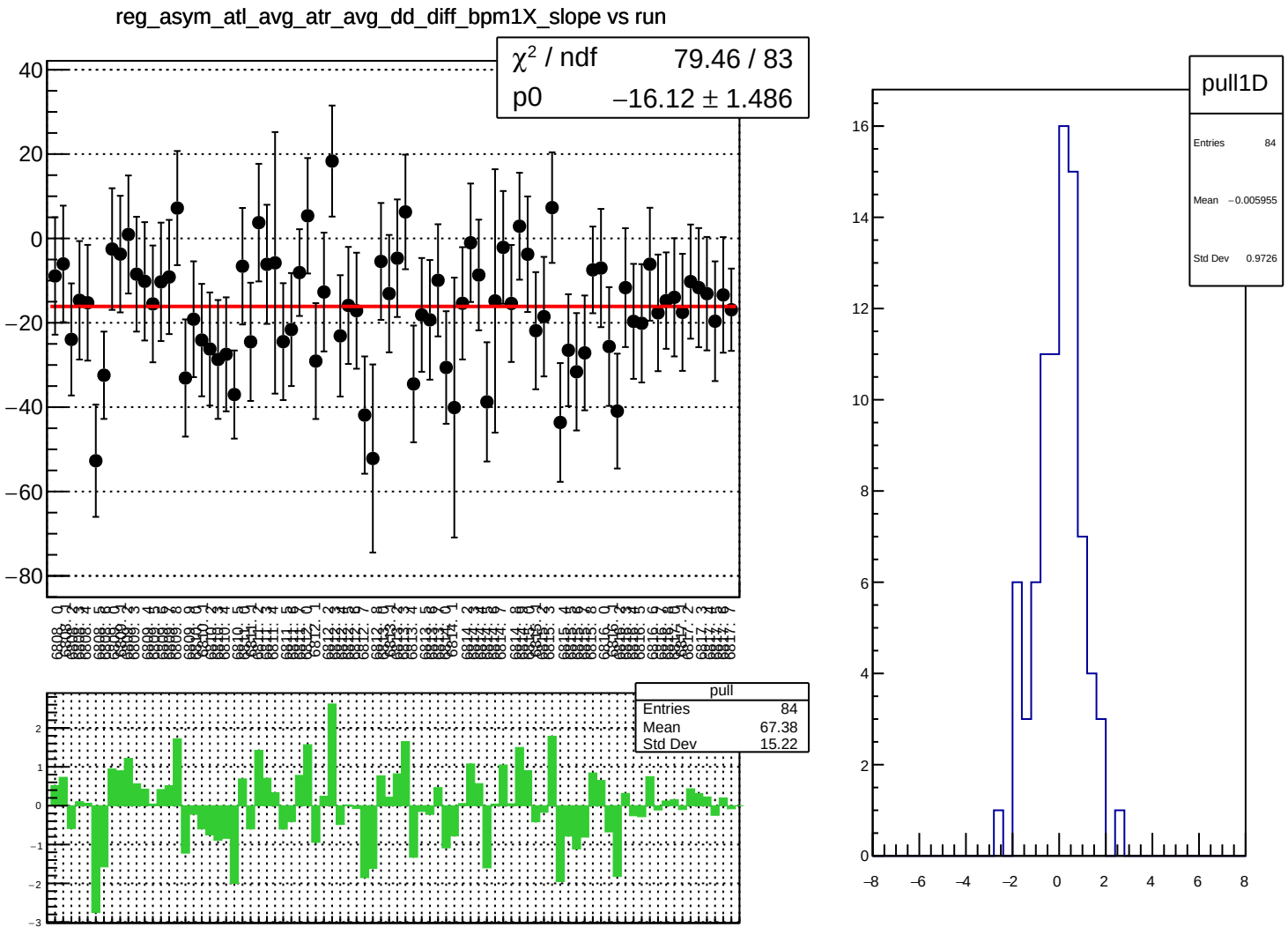

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.174 / 83
p0 24.41 ± 2.96
pull
Entries 84
Mean −28.09
Std Dev 24.86

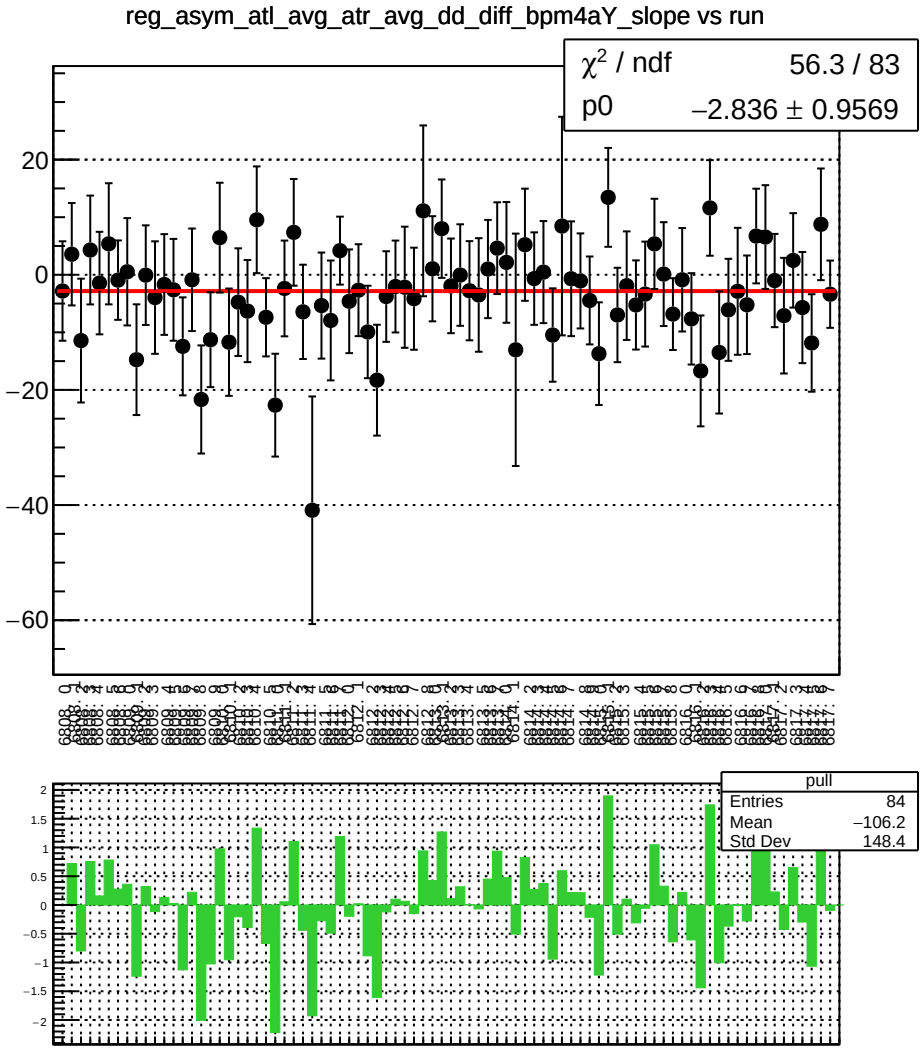

pull1D
Entries 84
Mean 0.003424
Std Dev 0.3119

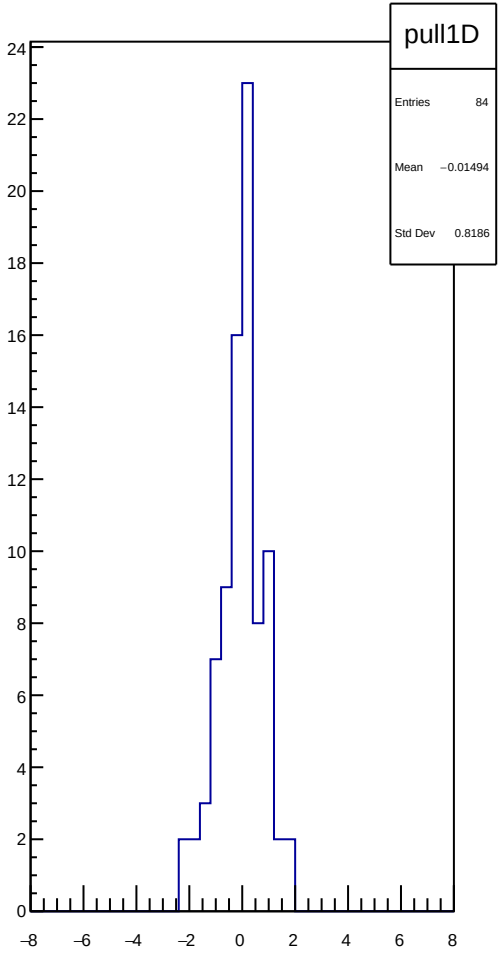

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.95 / 83
p0 280.5 ± 4.324
pull
Entries 84
Mean 228.1
Std Dev 137.9
pull1D
Entries 84
Mean 0.000812
Std Dev 0.3611

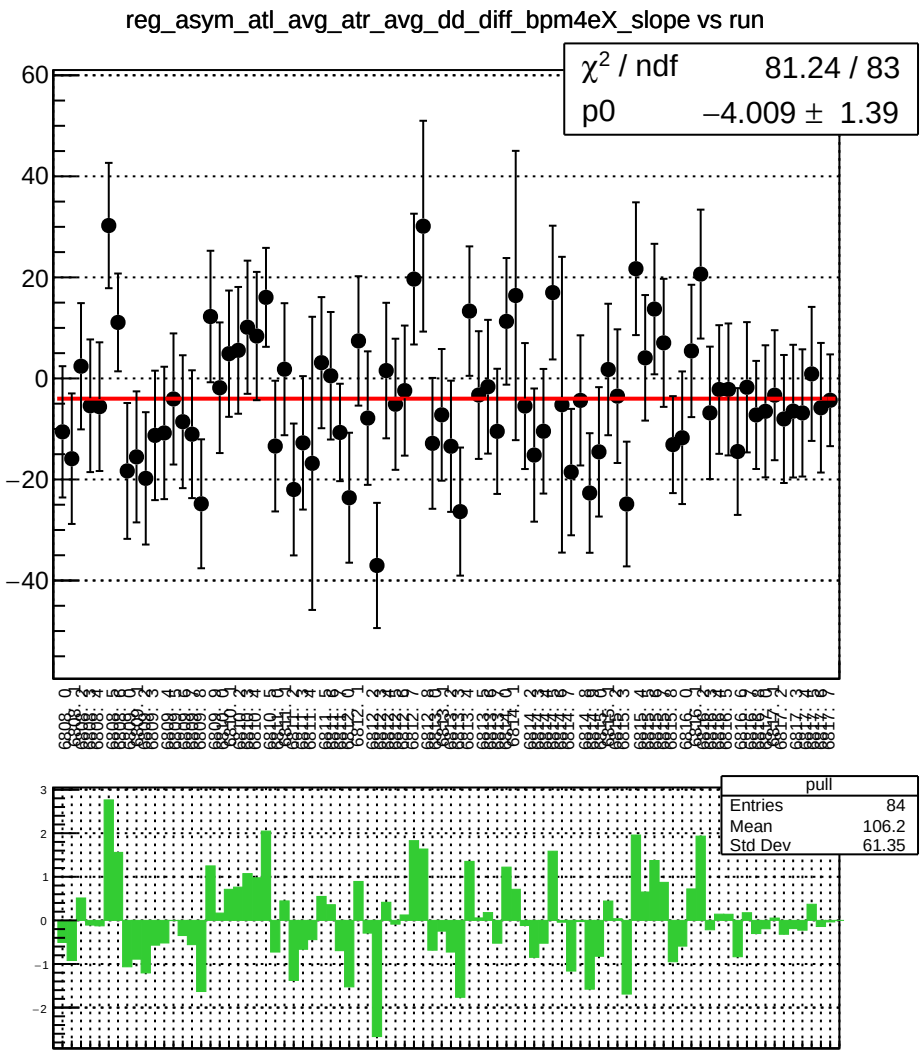

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.586 / 83
p0 30.66 ± 3.578
pull
Entries 84
Mean −111.3
Std Dev 142.8
pull1D
Entries 84
Mean −0.003505
Std Dev 0.3005

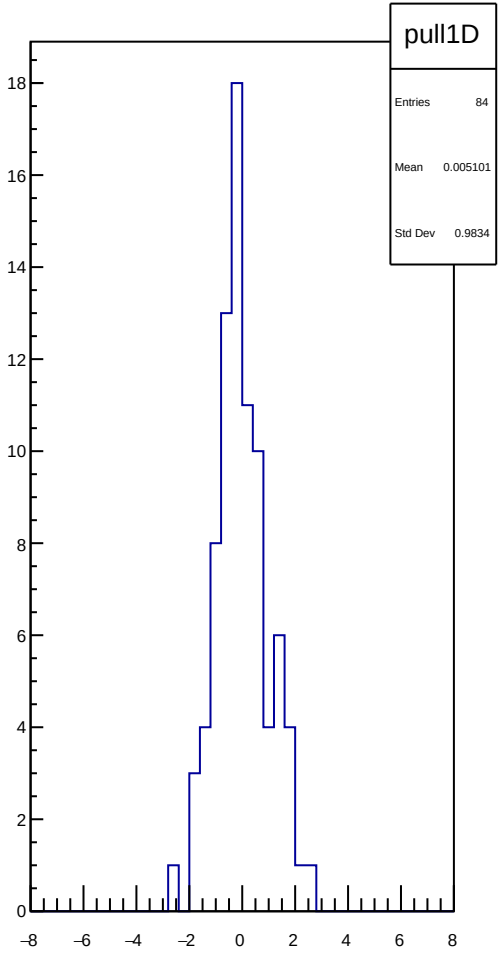

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 19.5 / 83
p0 −143.7 ± 0.188
pull
Entries 84
Mean 625.1
Std Dev 583.3
pull1D
Entries 84
Mean 0.004733
Std Dev 0.4818

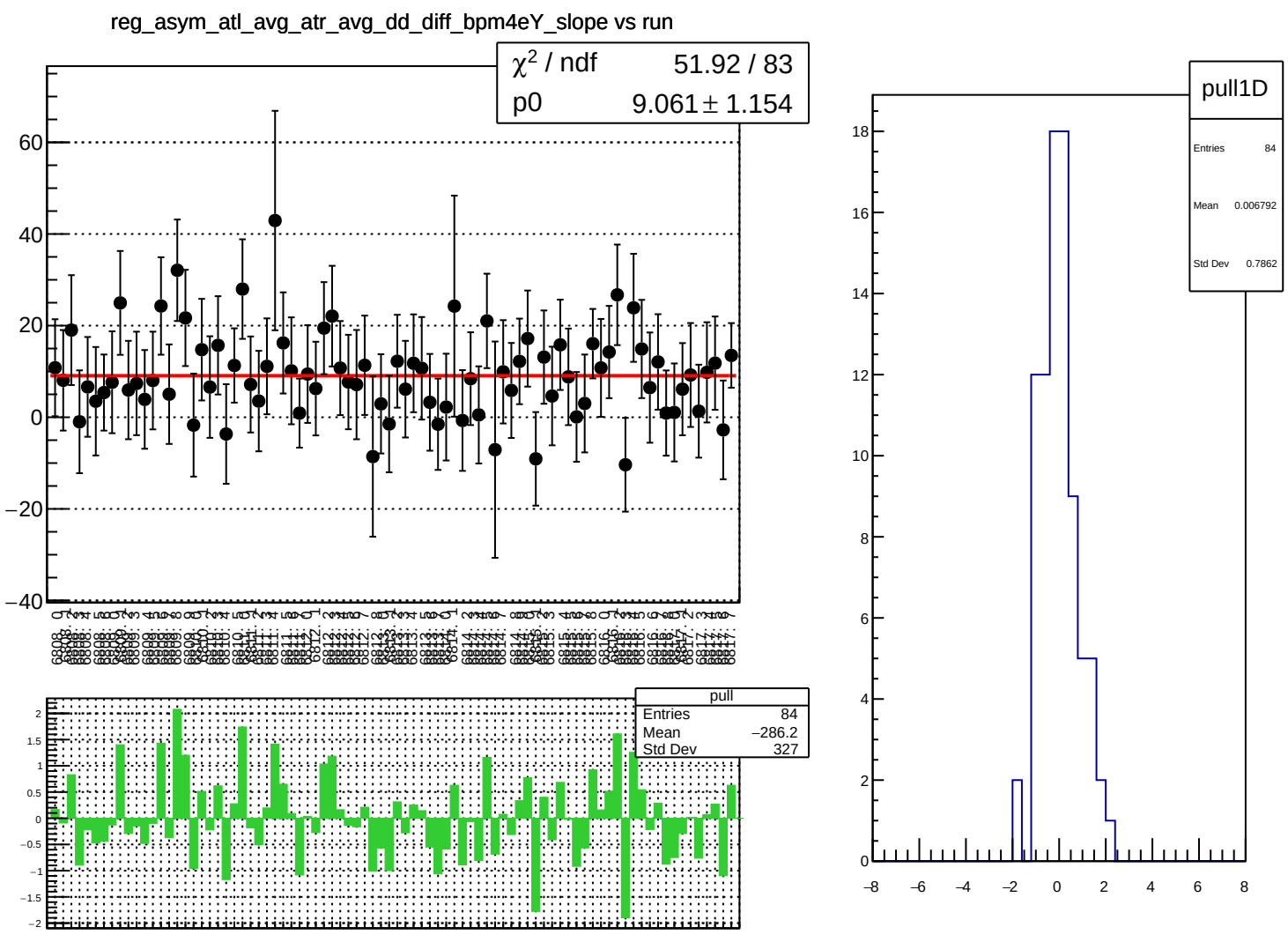

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 79.46 / 83
p0 −16.12 ± 1.486
pull
Entries 84
Mean 67.38
Std Dev 15.22
pull1D
Entries 84
Mean −0.005955
Std Dev 0.9726

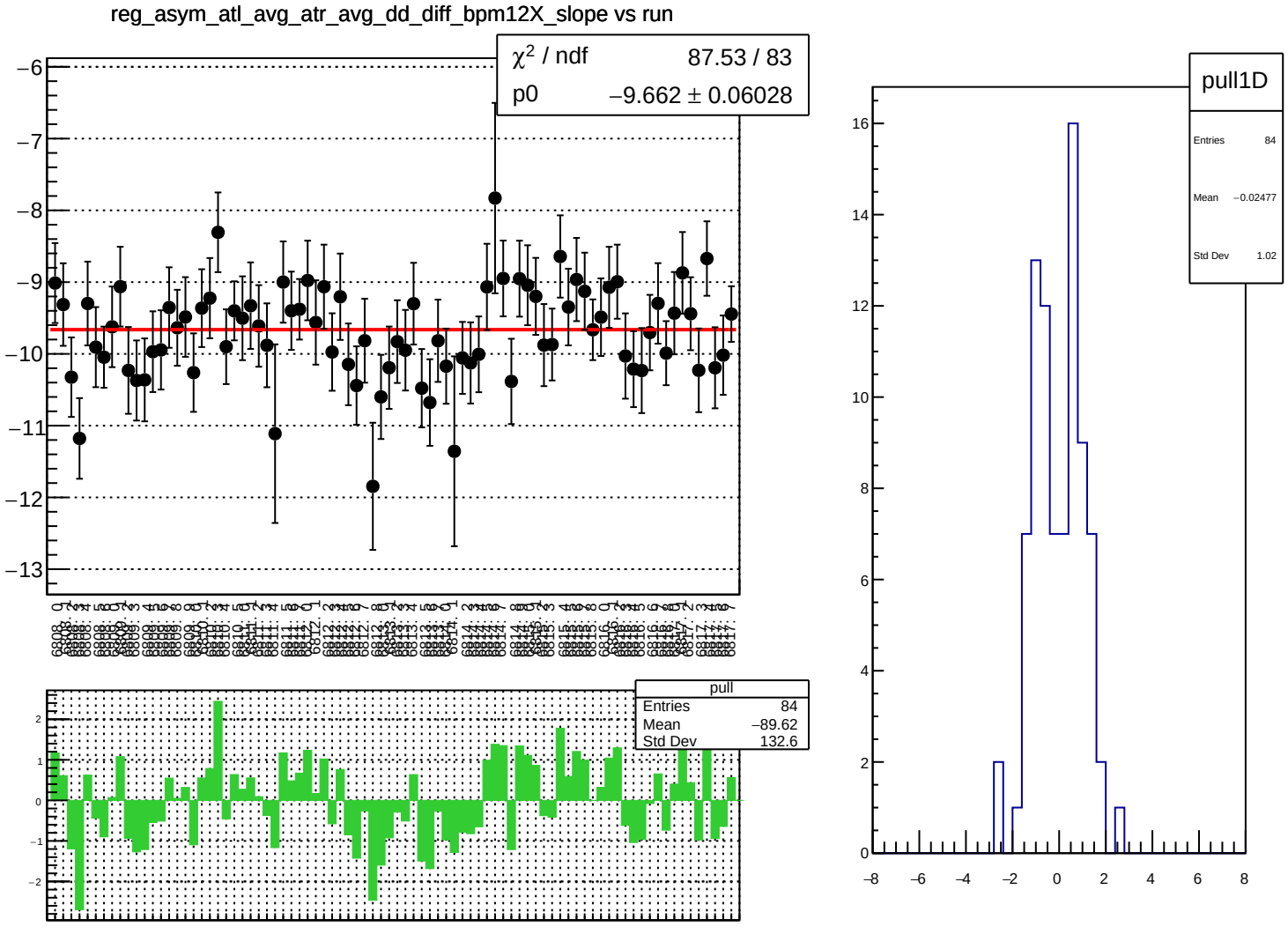

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.3 / 83
p0 −2.836 ± 0.9569
pull
Entries 84
Mean −106.2
Std Dev 148.4

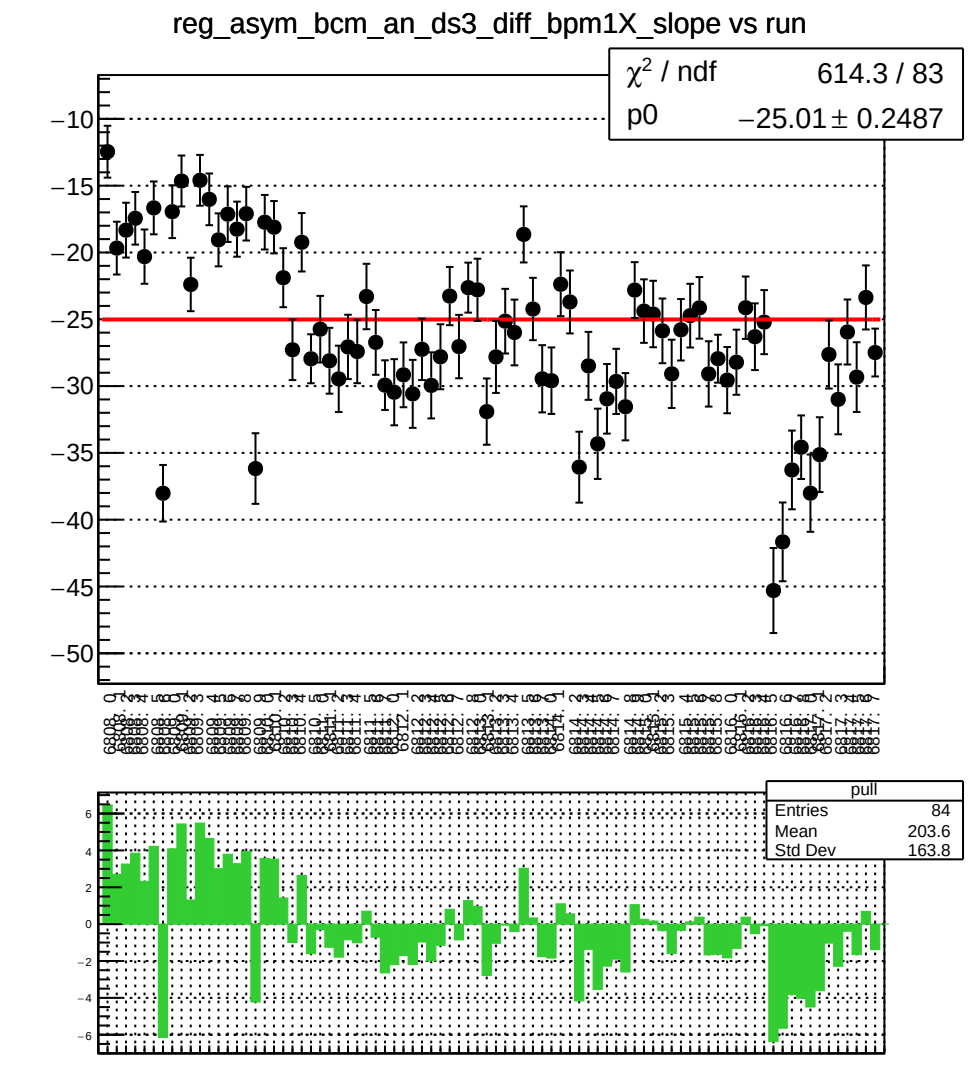

pull1D
Entries 84
Mean −0.01494
Std Dev 0.8186

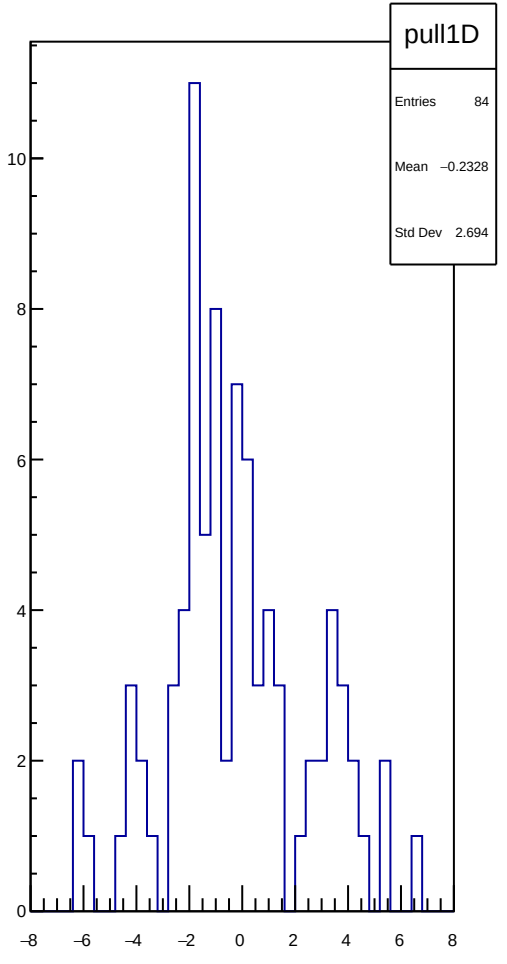

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.24 / 83
p0 −4.009 ± 1.39
pull
Entries 84
Mean 106.2
Std Dev 61.35

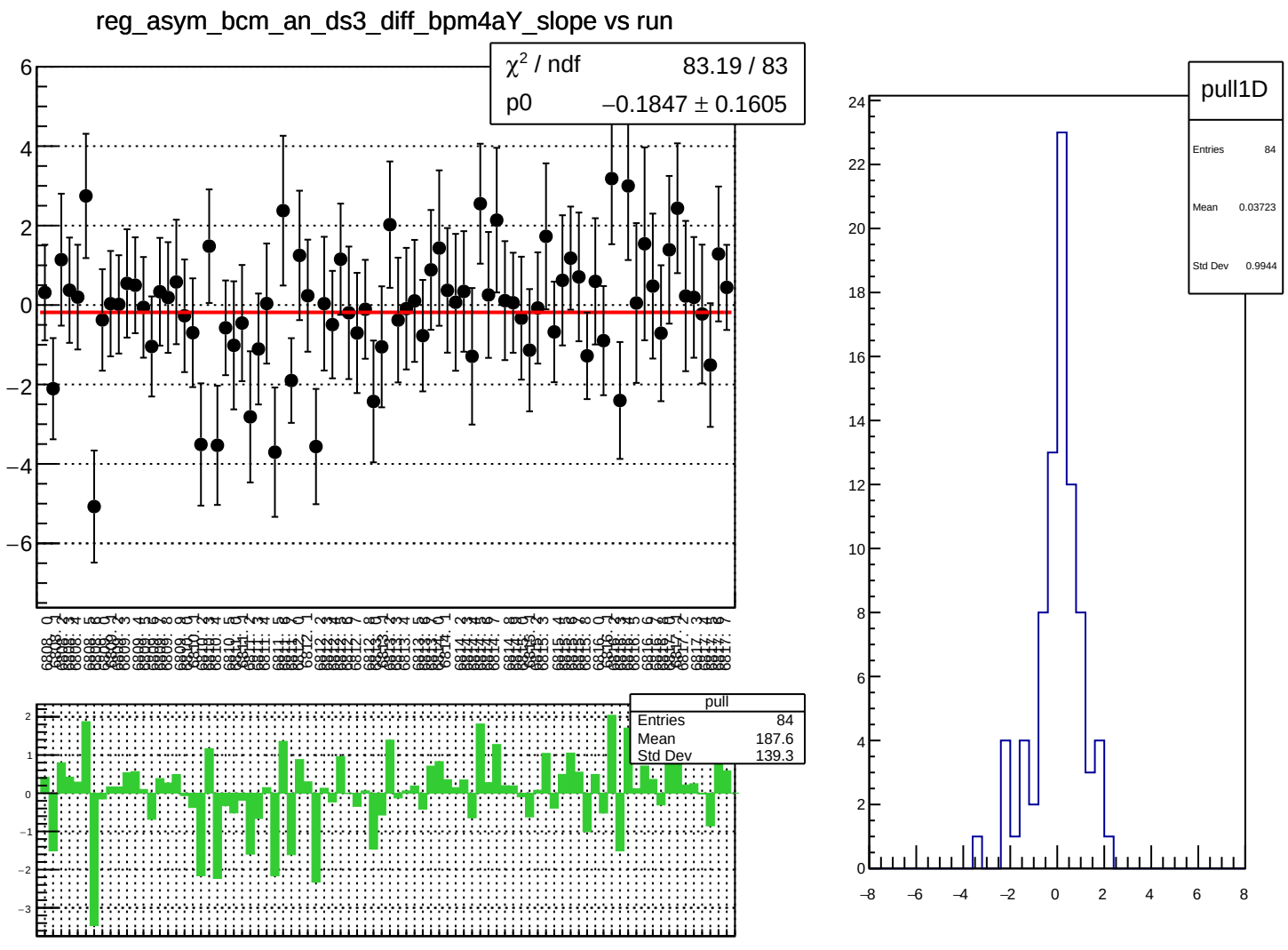

pull1D
Entries 84
Mean 0.005101
Std Dev 0.9834

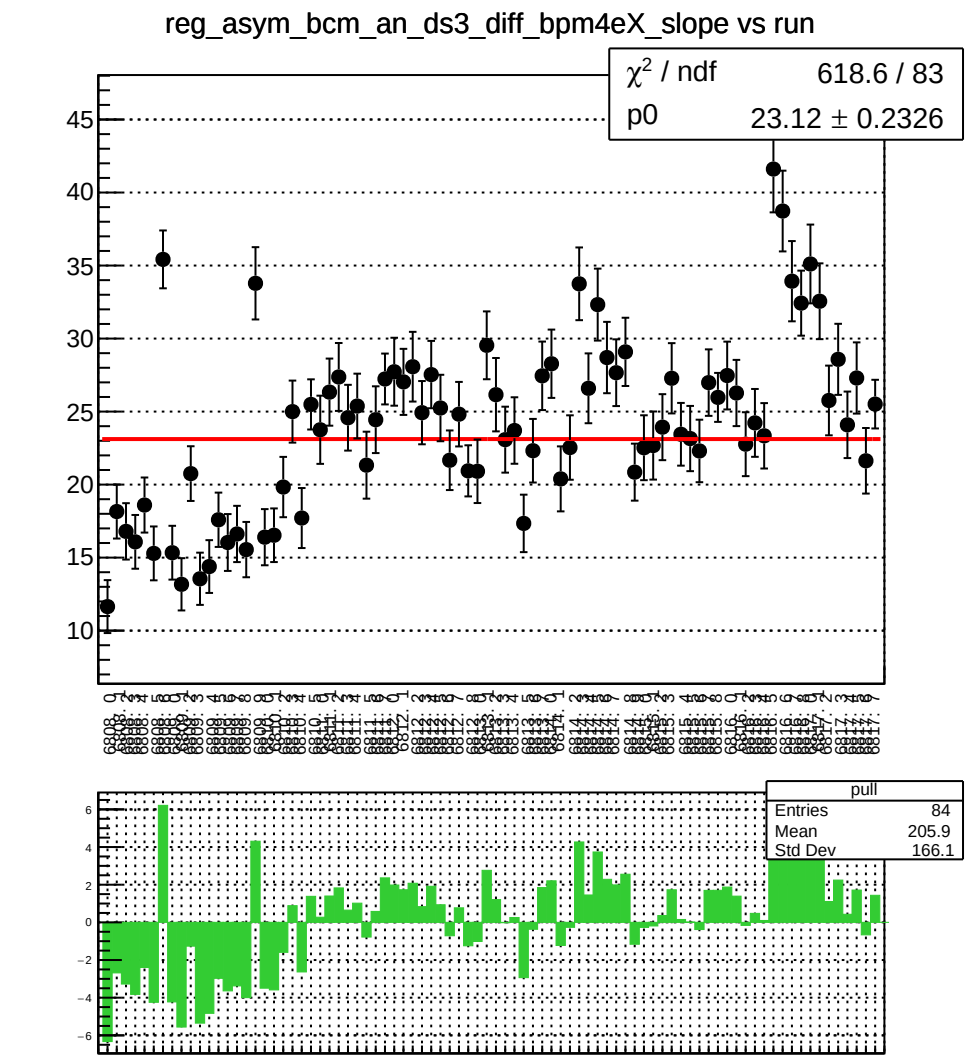

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.92 / 83
p0 9.061 ± 1.154
pull
Entries 84
Mean −286.2
Std Dev 327
pull1D
Entries 84
Mean 0.006792
Std Dev 0.7862

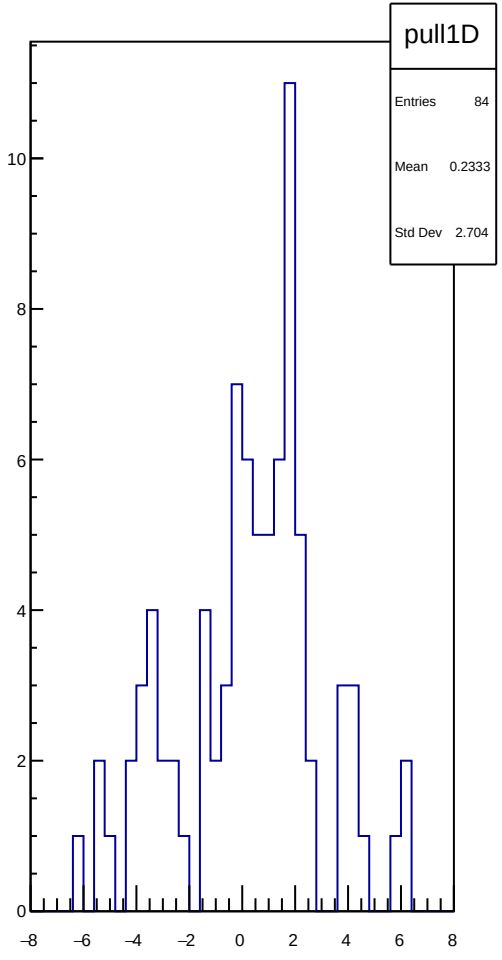

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 87.53 / 83
p0 −9.662 ± 0.06028
pull
Entries 84
Mean −89.62
Std Dev 132.6
pull1D
Entries 84
Mean −0.02477
Std Dev 1.02

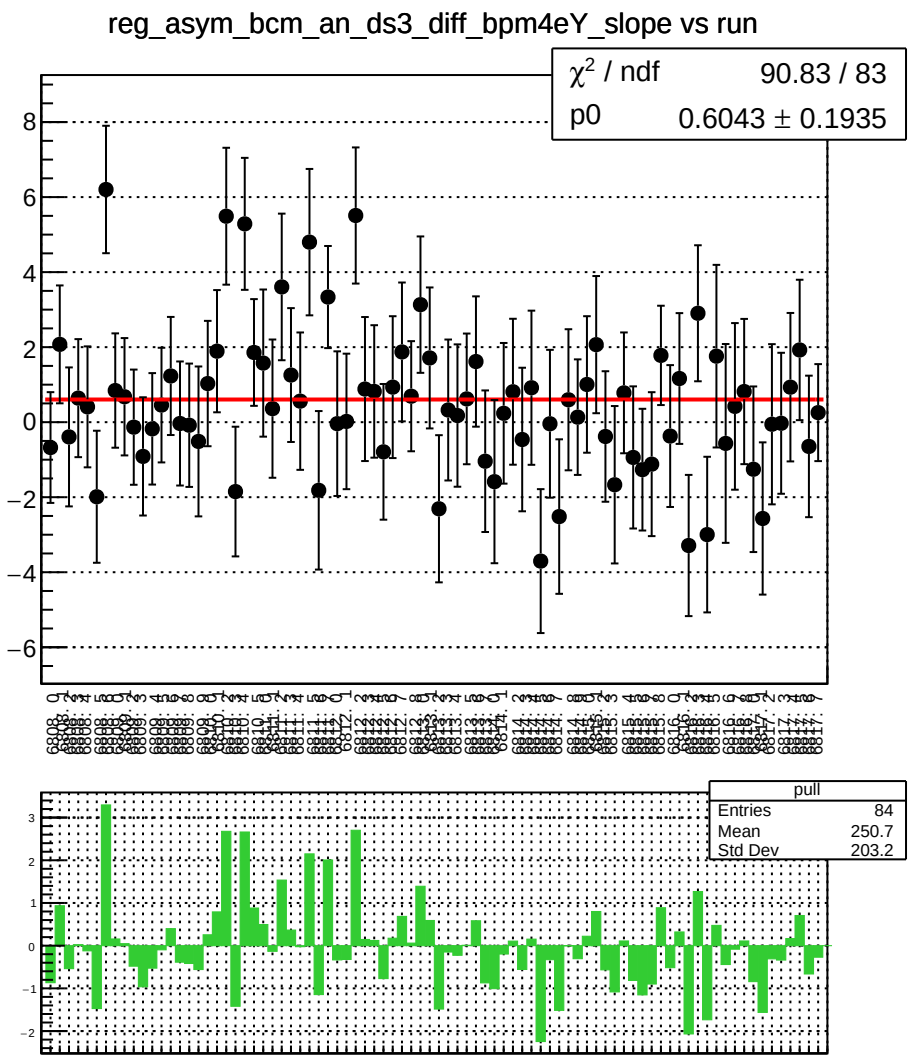

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 614.3 / 83
p0 −25.01 ± 0.2487
pull
Entries 84
Mean 203.6
Std Dev 163.8

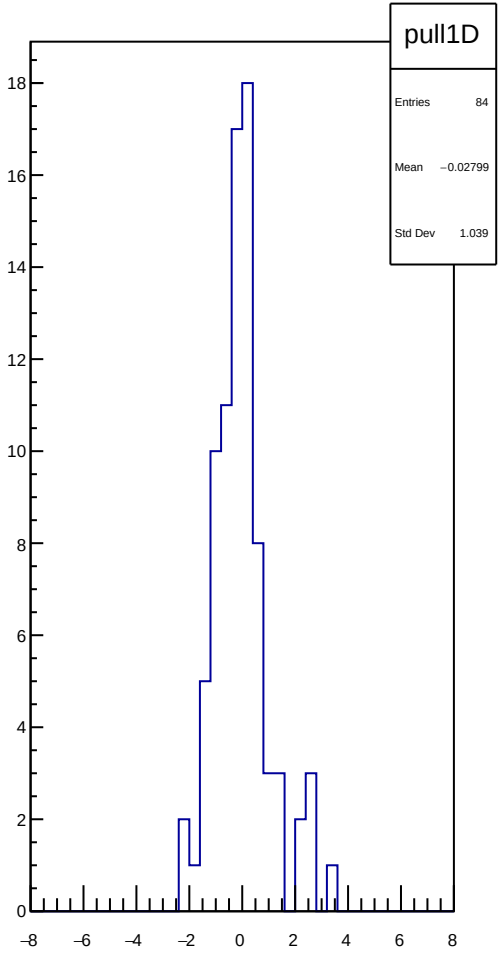

pull1D
Entries 84
Mean −0.2328
Std Dev 2.694

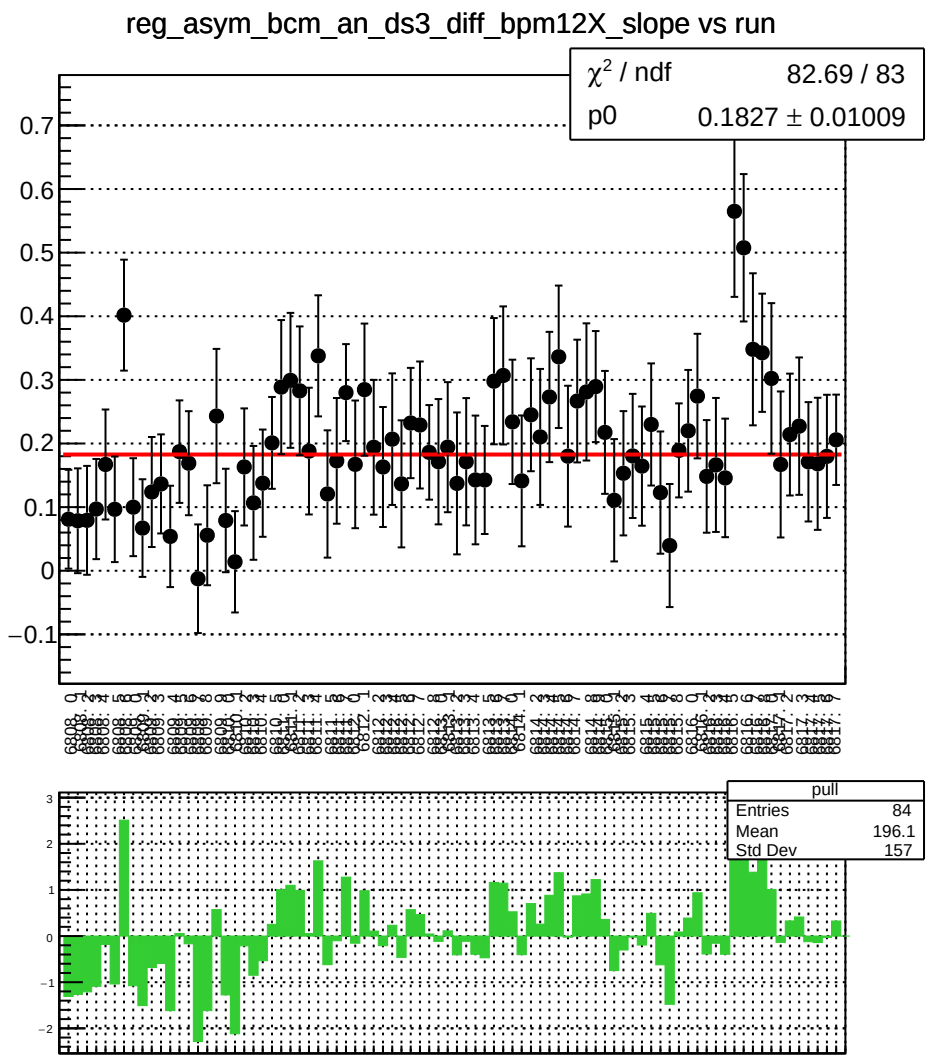

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 83.19 / 83
p0 −0.1847 ± 0.1605
pull
Entries 84
Mean 187.6
Std Dev 139.3
pull1D
Entries 84
Mean 0.03723
Std Dev 0.9944

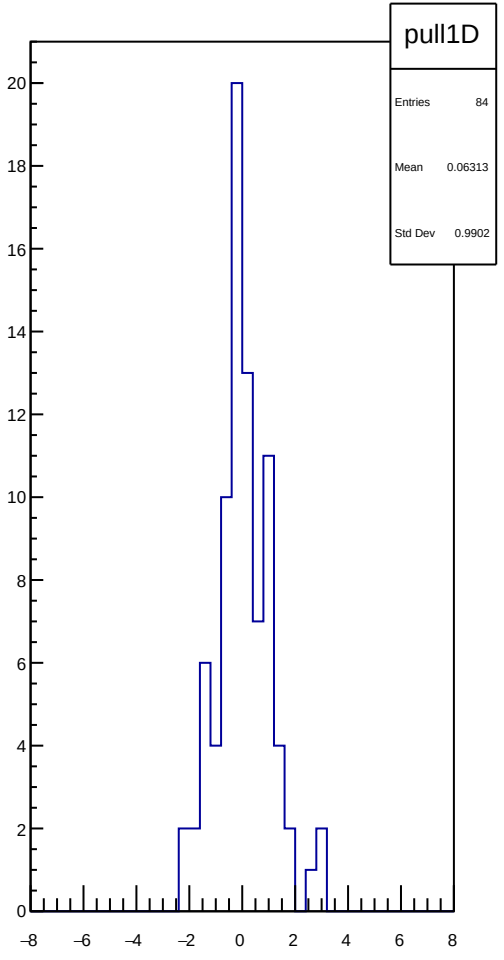

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 618.6 / 83
p0 23.12 ± 0.2326
pull
Entries 84
Mean 205.9
Std Dev 166.1

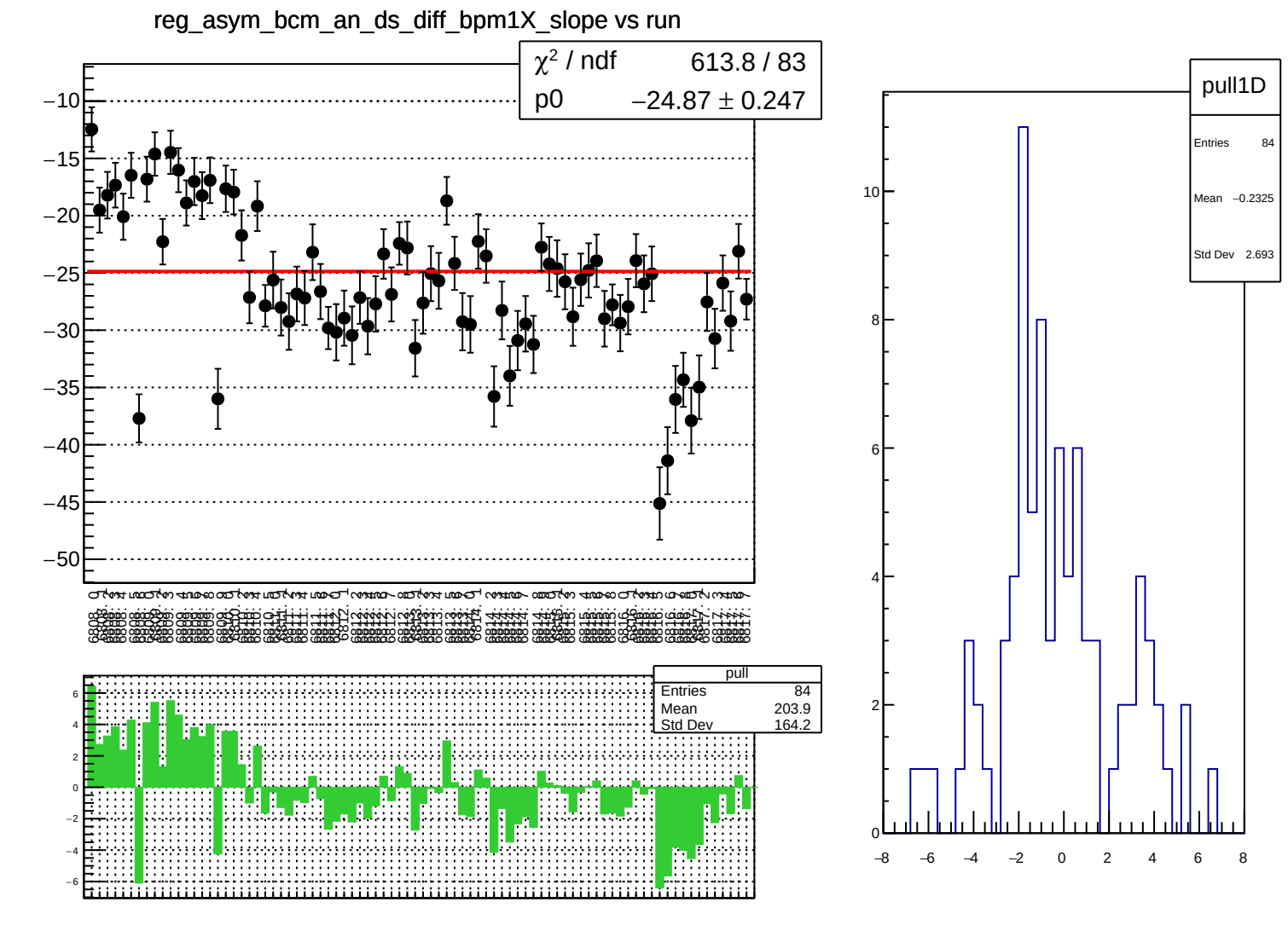

pull1D
Entries 84
Mean 0.2333
Std Dev 2.704

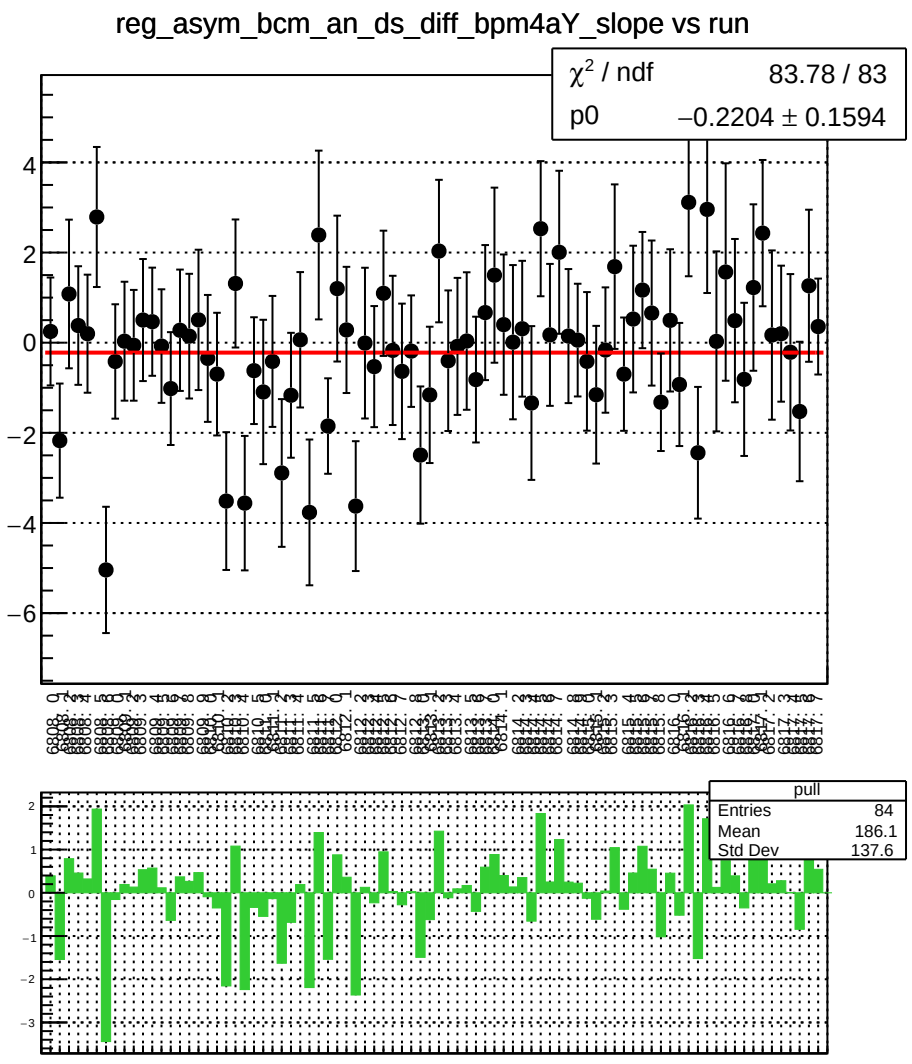

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 90.83 / 83
p0 0.6043 ± 0.1935
pull
Entries 84
Mean 250.7
Std Dev 203.2

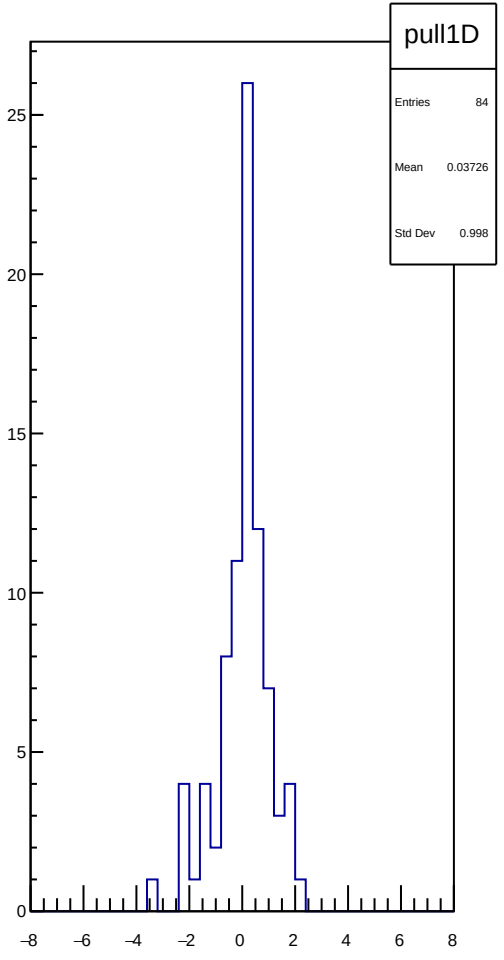

pull1D
Entries 84
Mean −0.02799
Std Dev 1.039

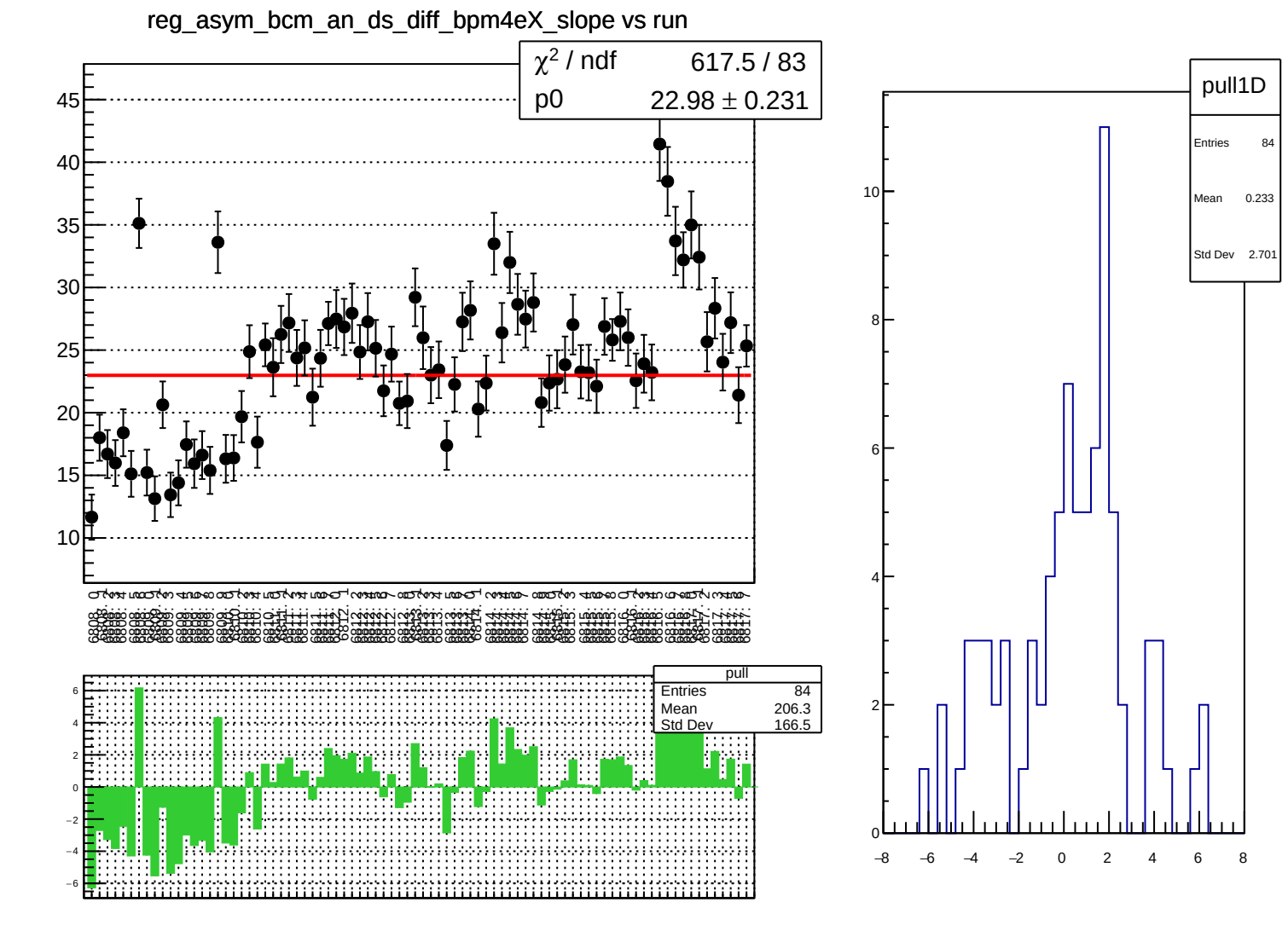

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 82.69 / 83
p0 0.1827 ± 0.01009
pull
Entries 84
Mean 196.1
Std Dev 157

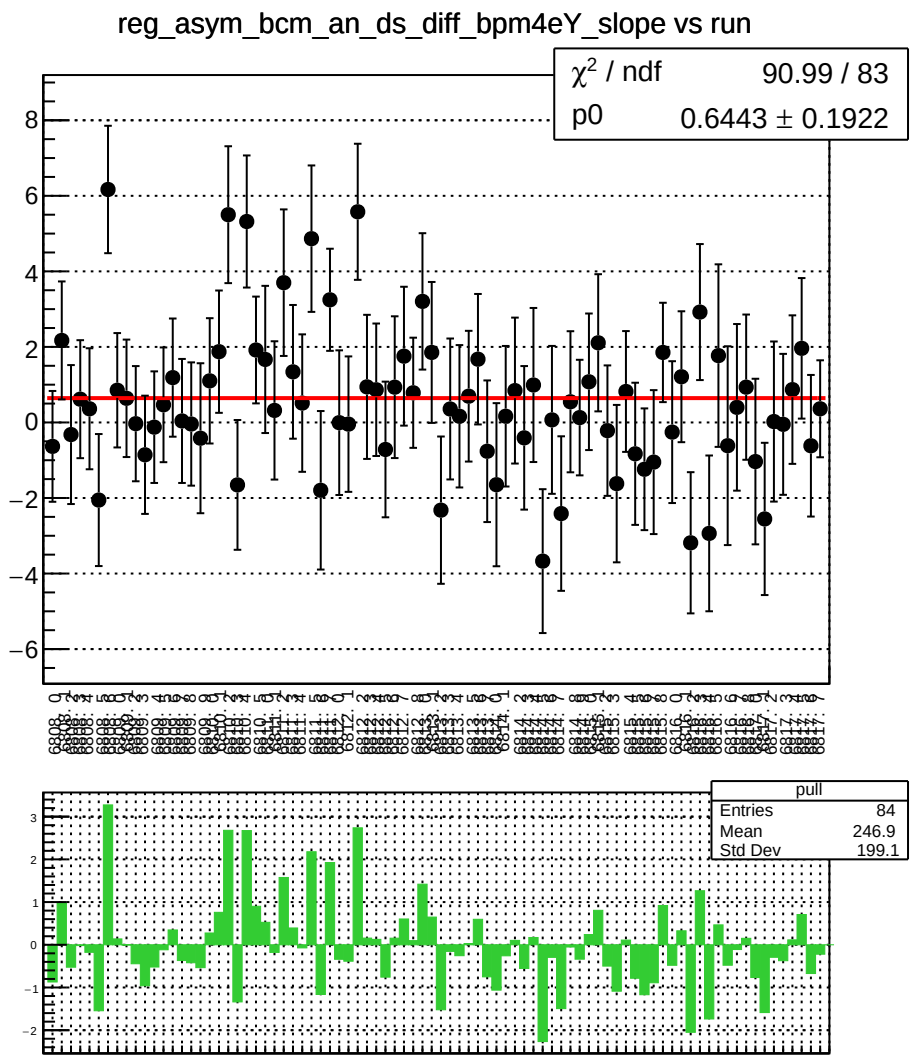

pull1D
Entries 84
Mean 0.06313
Std Dev 0.9902

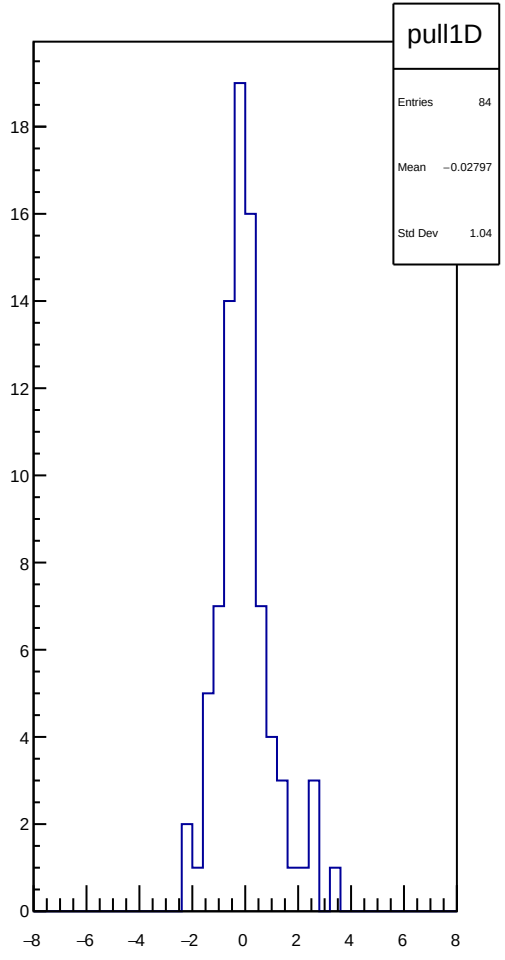

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 613.8 / 83
p0 −24.87 ± 0.247
pull
Entries 84
Mean 203.9
Std Dev 164.2
pull1D
Entries 84
Mean −0.2325
Std Dev 2.693

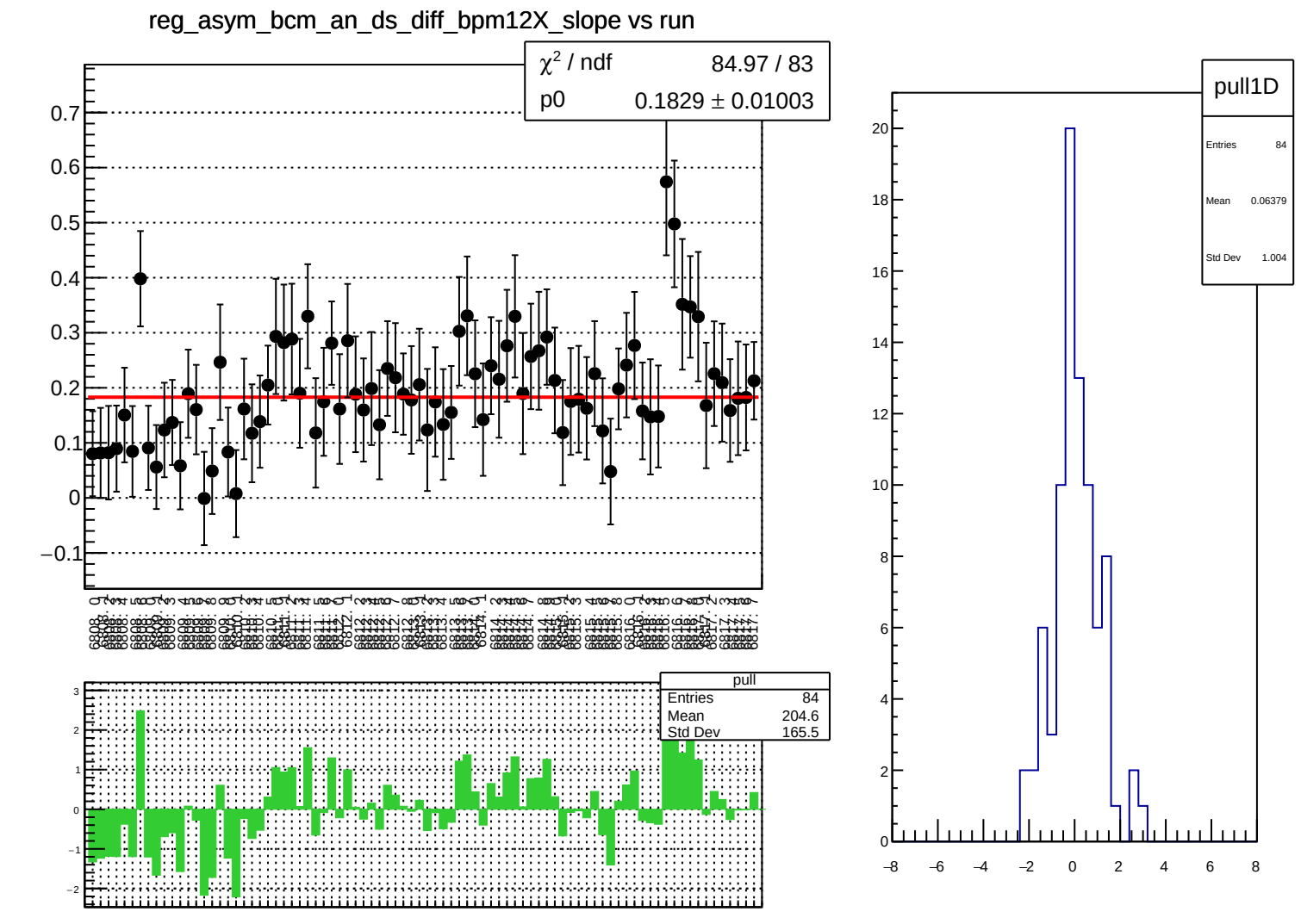

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 83.78 / 83
p0 −0.2204 ± 0.1594
pull
Entries 84
Mean 186.1
Std Dev 137.6

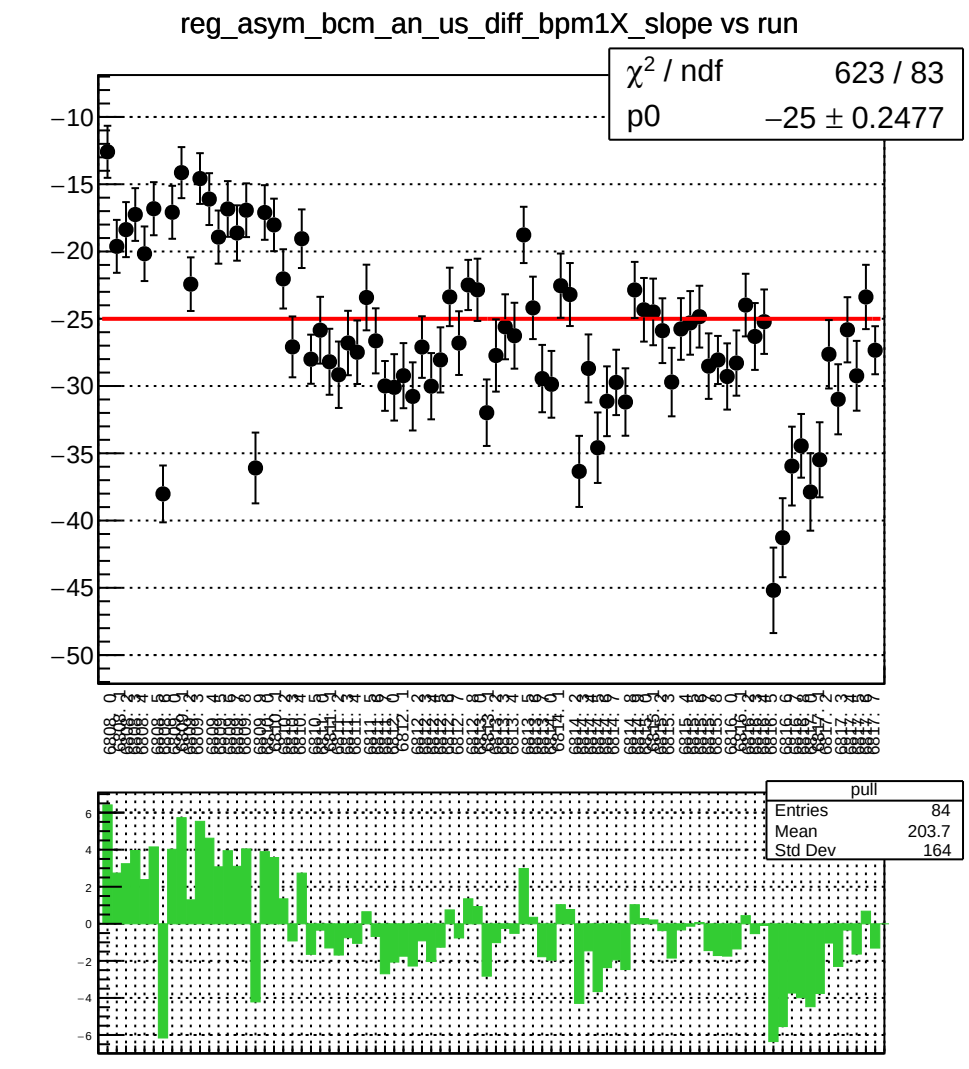

pull1D
Entries 84
Mean 0.03726
Std Dev 0.998

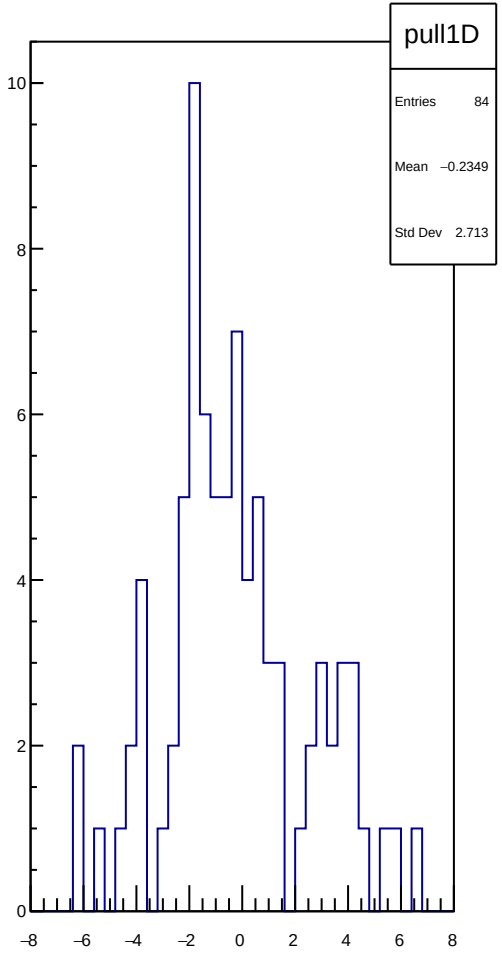

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 617.5 / 83
p0 22.98 ± 0.231
pull
Entries 84
Mean 206.3
Std Dev 166.5
pull1D
Entries 84
Mean 0.233
Std Dev 2.701

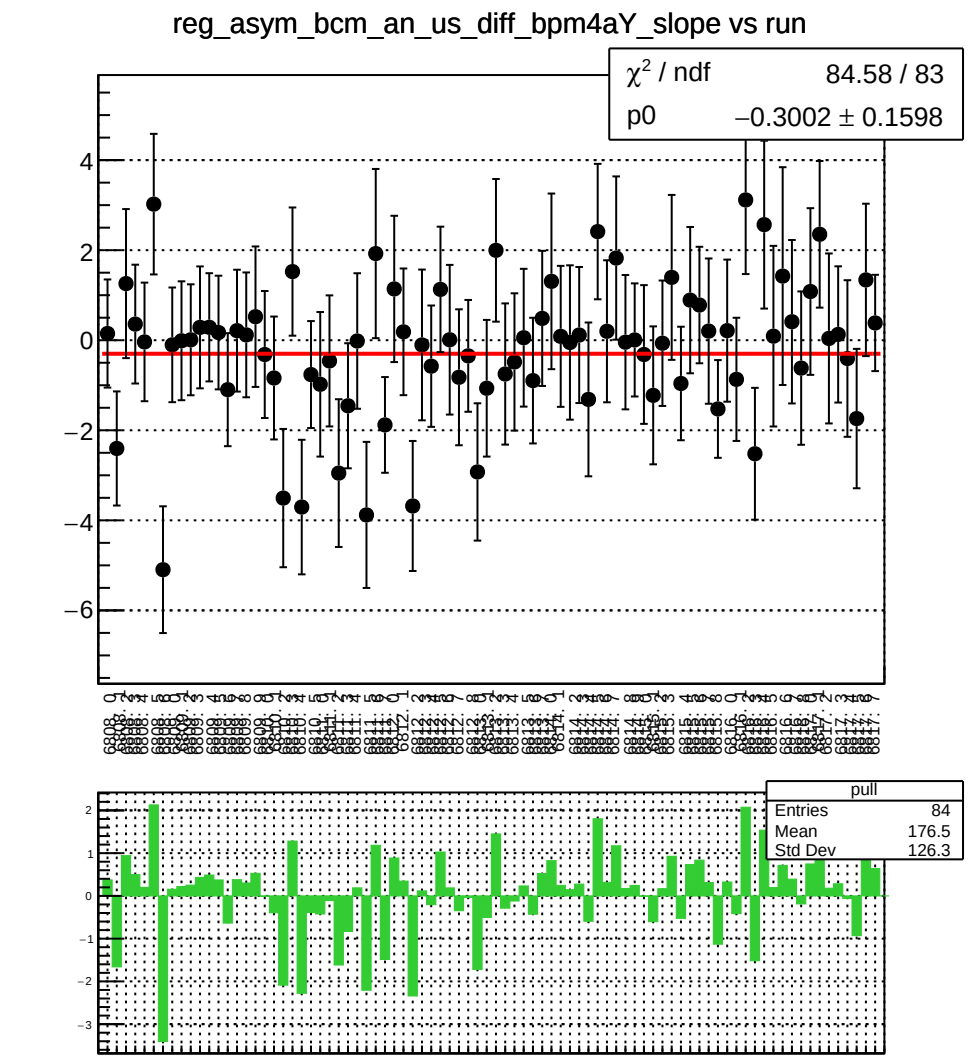

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 90.99 / 83
p0 0.6443 ± 0.1922
pull
Entries 84
Mean 246.9
Std Dev 199.1

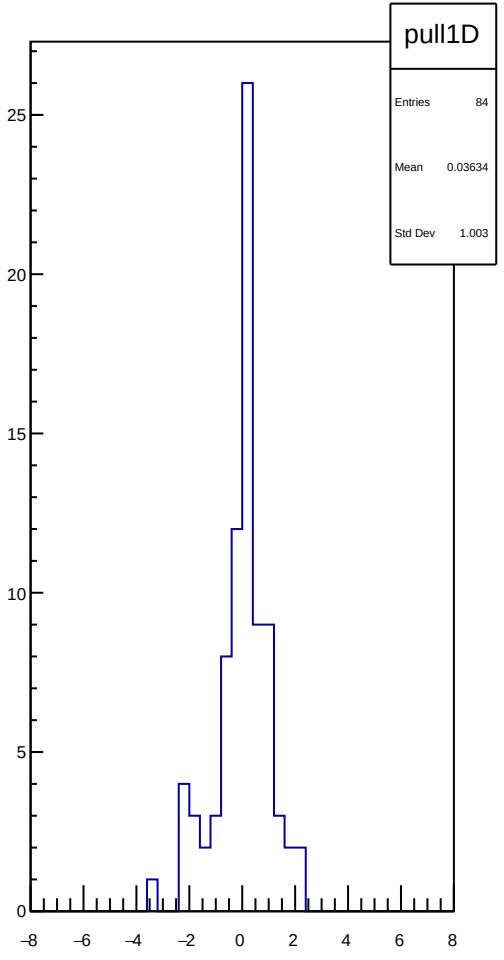

pull1D
Entries 84
Mean −0.02797
Std Dev 1.04

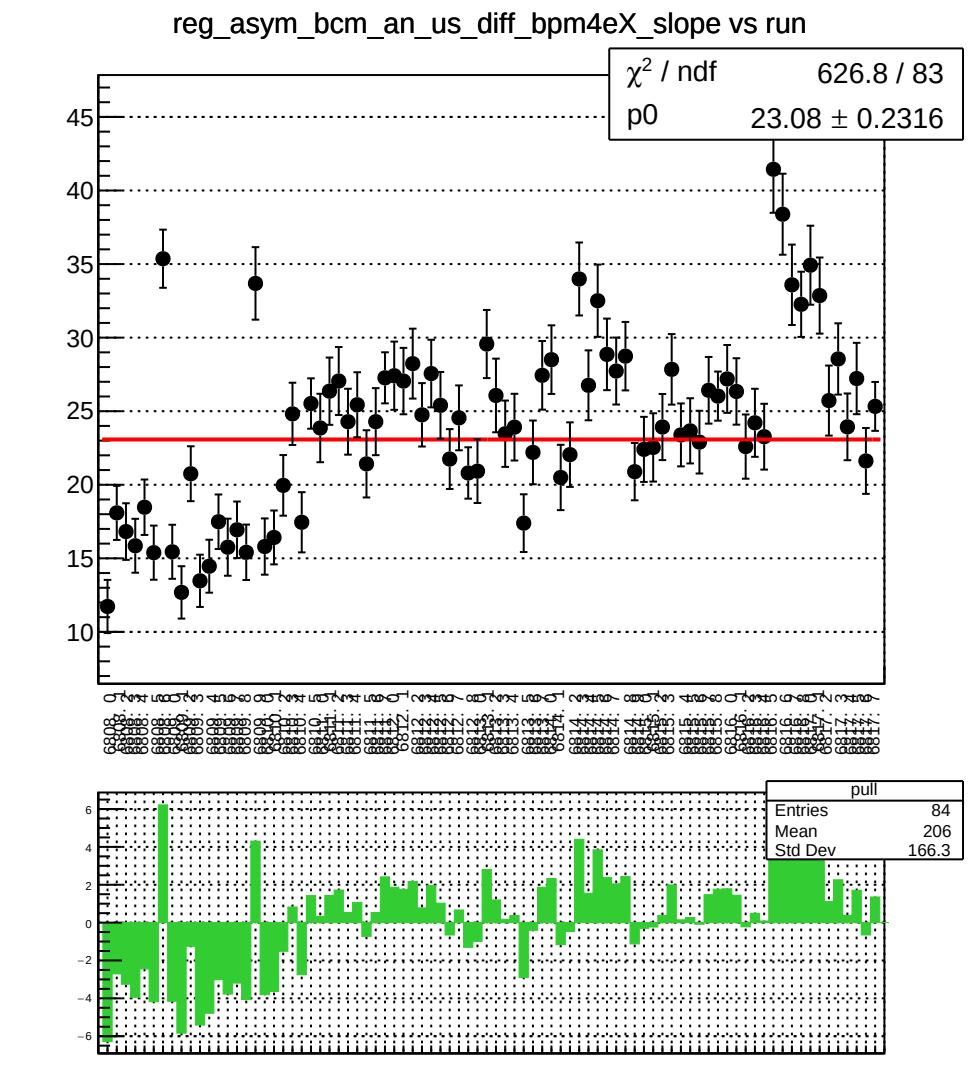

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 84.97 / 83
p0 0.1829 ± 0.01003
pull
Entries 84
Mean 204.6
Std Dev 165.5
pull1D
Entries 84
Mean 0.06379
Std Dev 1.004

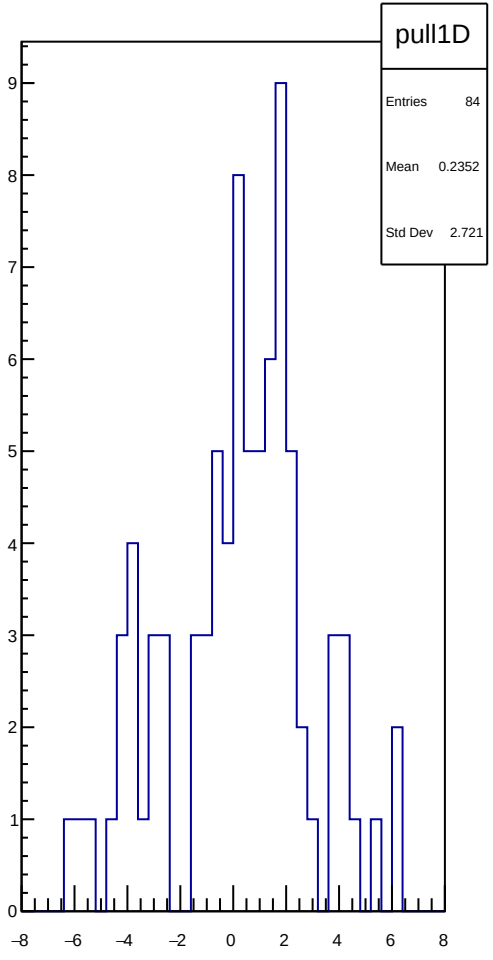

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 623 / 83
p0 −25 ± 0.2477
pull
Entries 84
Mean 203.7
Std Dev 164

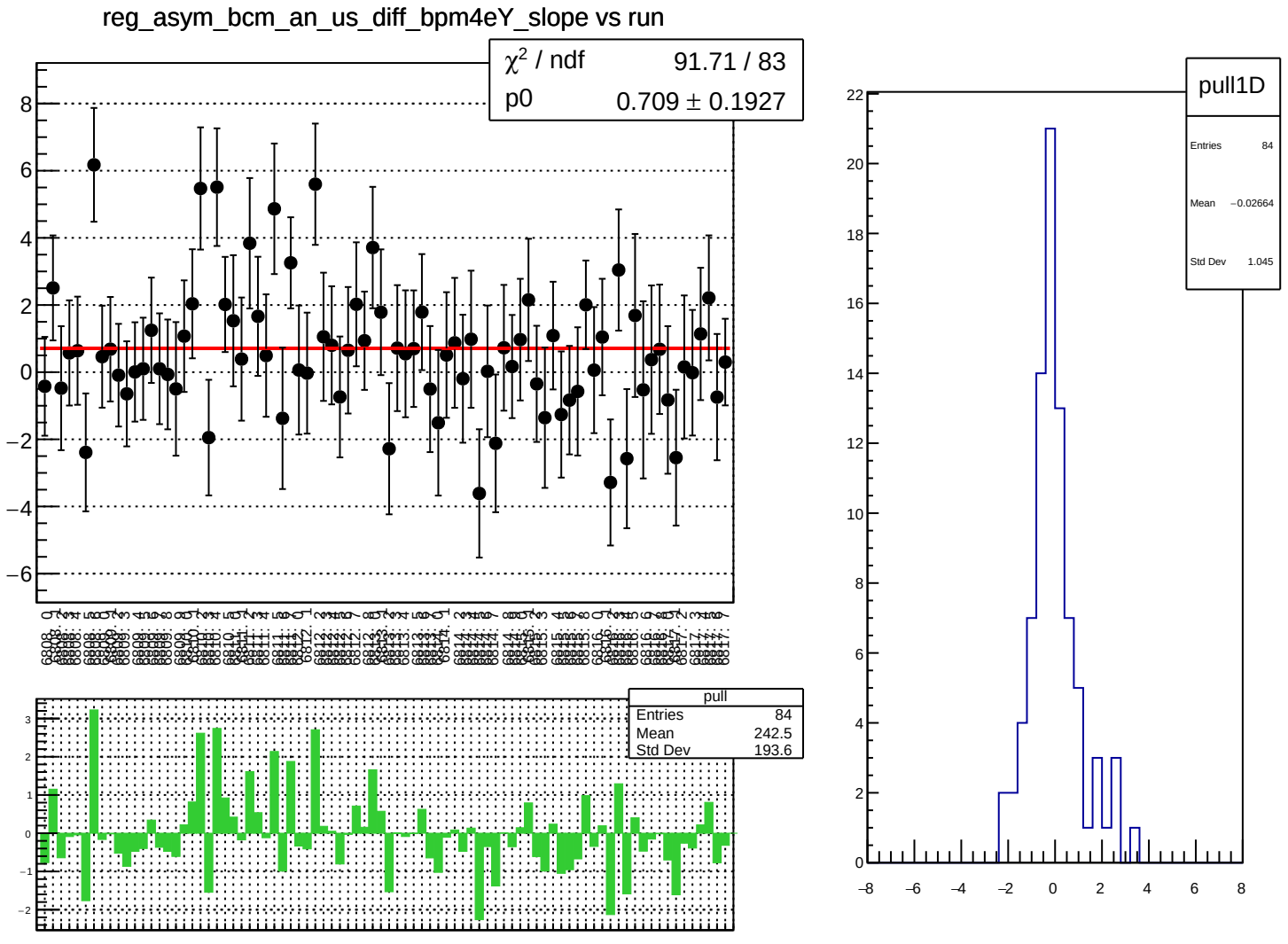

pull1D
Entries 84
Mean −0.2349
Std Dev 2.713

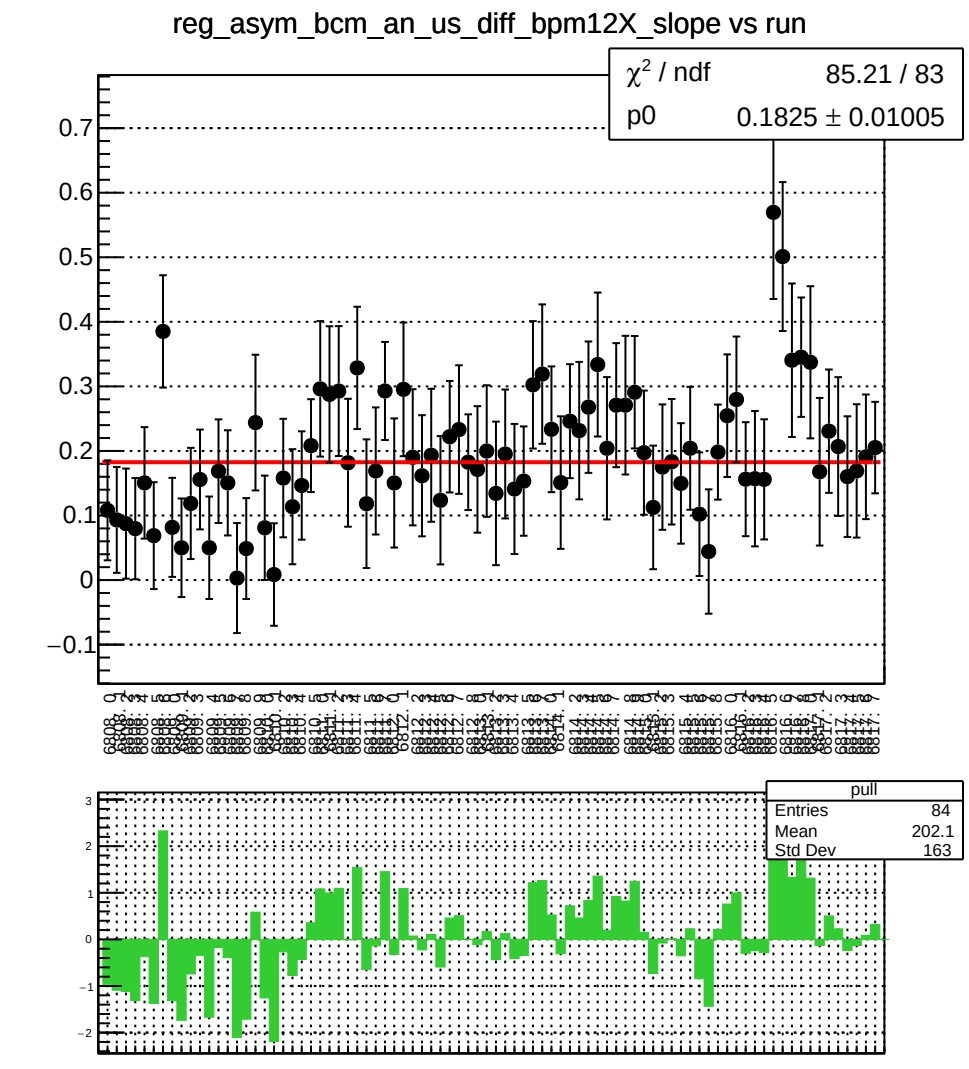

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 84.58 / 83
p0 −0.3002 ± 0.1598
pull
Entries 84
Mean 176.5
Std Dev 126.3

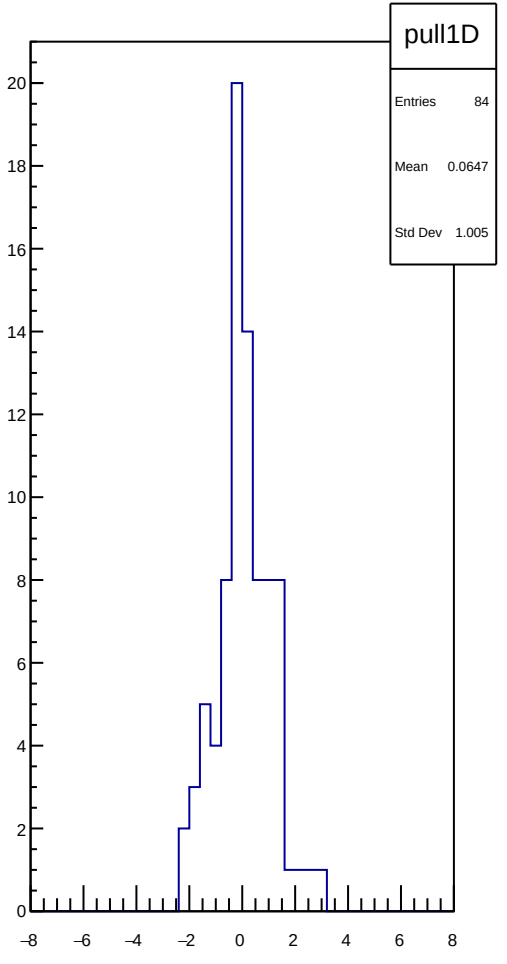

pull1D
Entries 84
Mean 0.03634
Std Dev 1.003

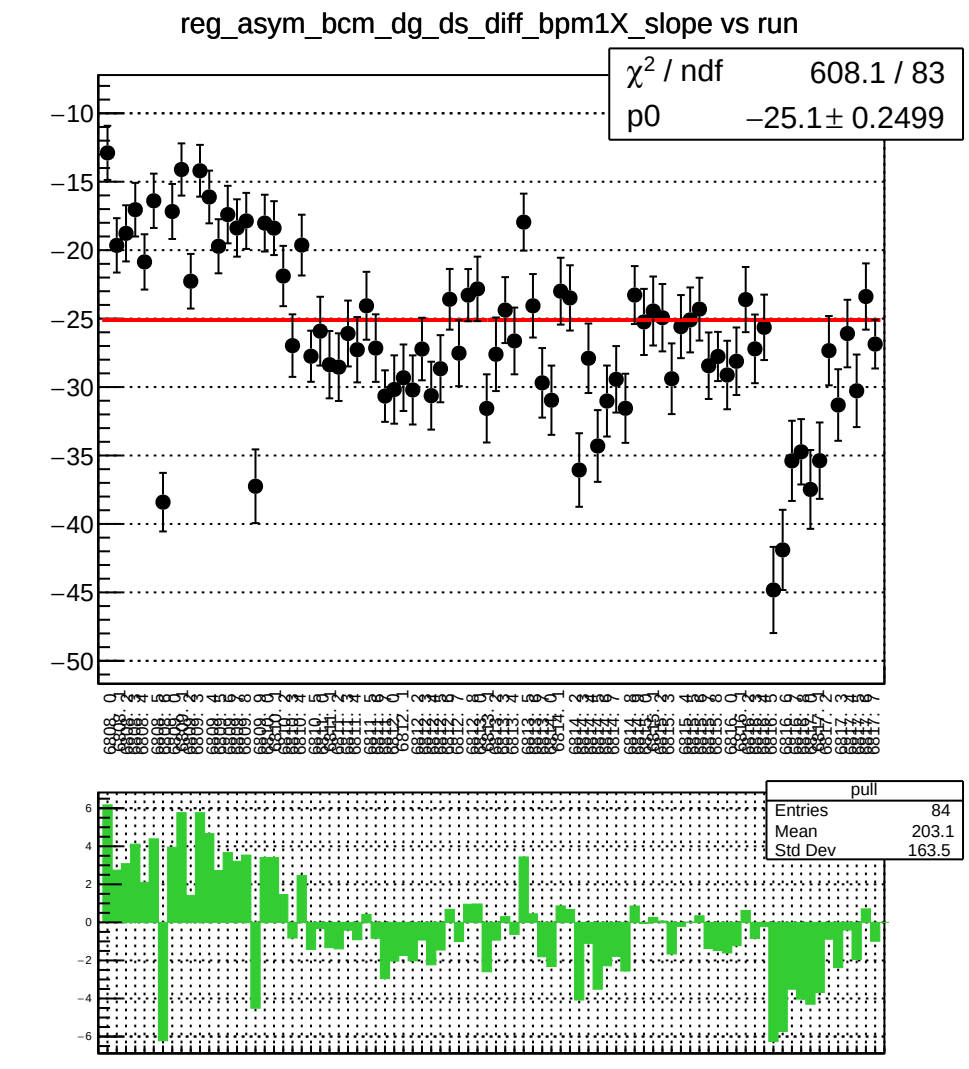

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 626.8 / 83
p0 23.08 ± 0.2316
pull
Entries 84
Mean 206
Std Dev 166.3

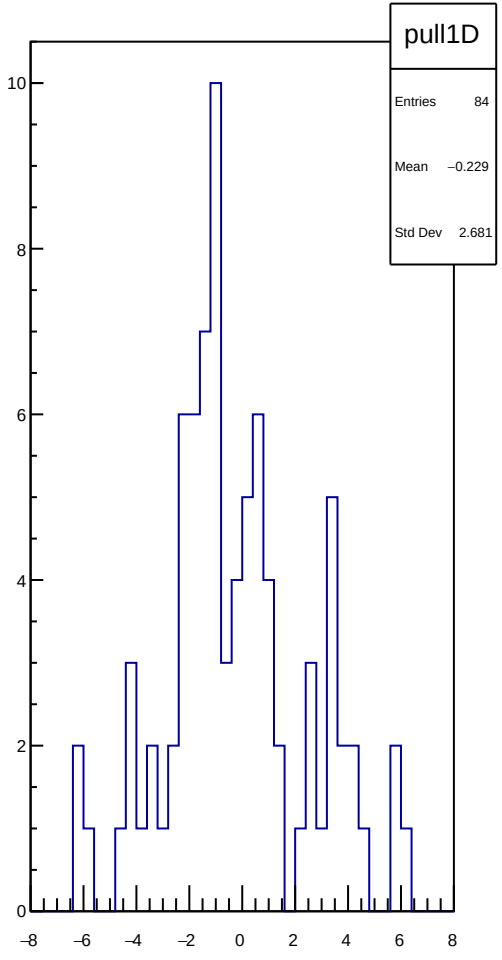

pull1D
Entries 84
Mean 0.2352
Std Dev 2.721

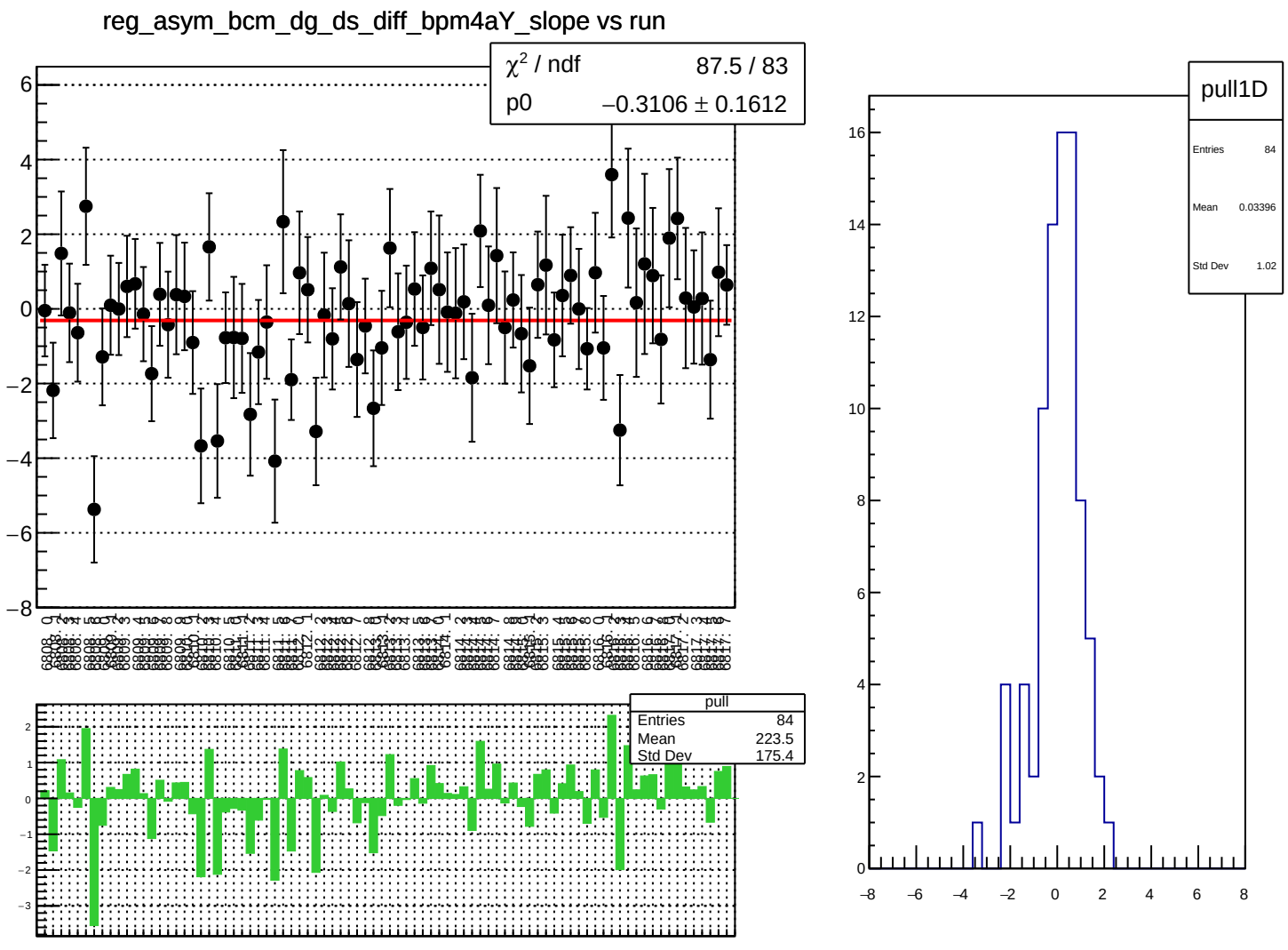

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 91.71 / 83
p0 0.709 ± 0.1927
pull
Entries 84
Mean 242.5
Std Dev 193.6
pull1D
Entries 84
Mean −0.02664
Std Dev 1.045

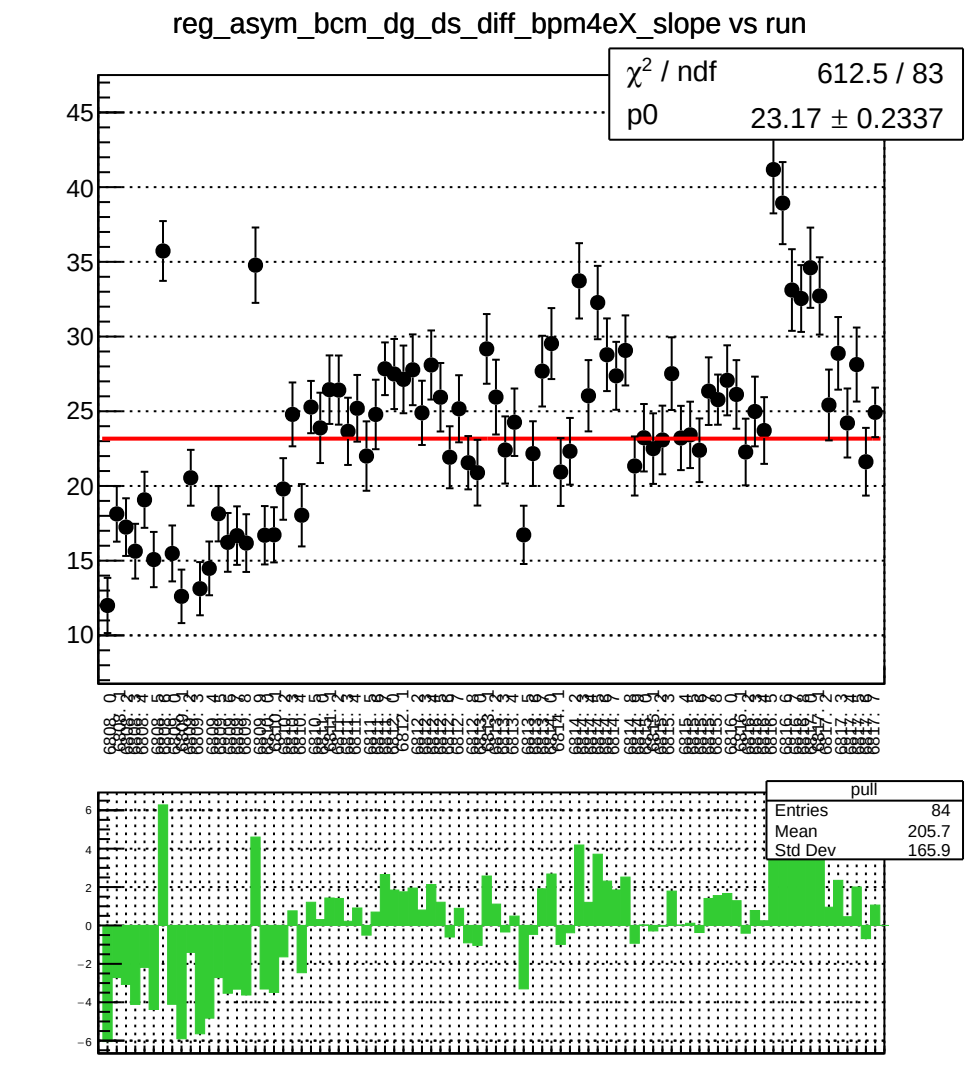

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 85.21 / 83
p0 0.1825 ± 0.01005
pull
Entries 84
Mean 202.1
Std Dev 163

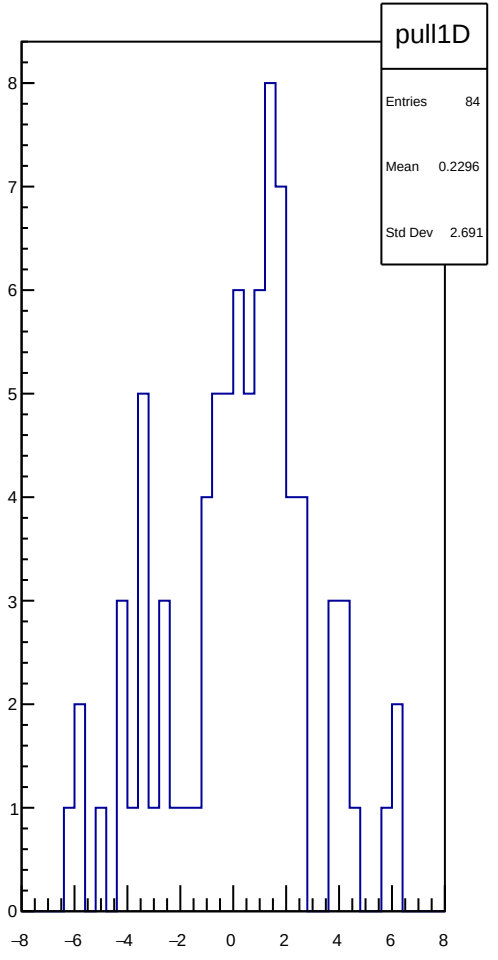

pull1D
Entries 84
Mean 0.0647
Std Dev 1.005

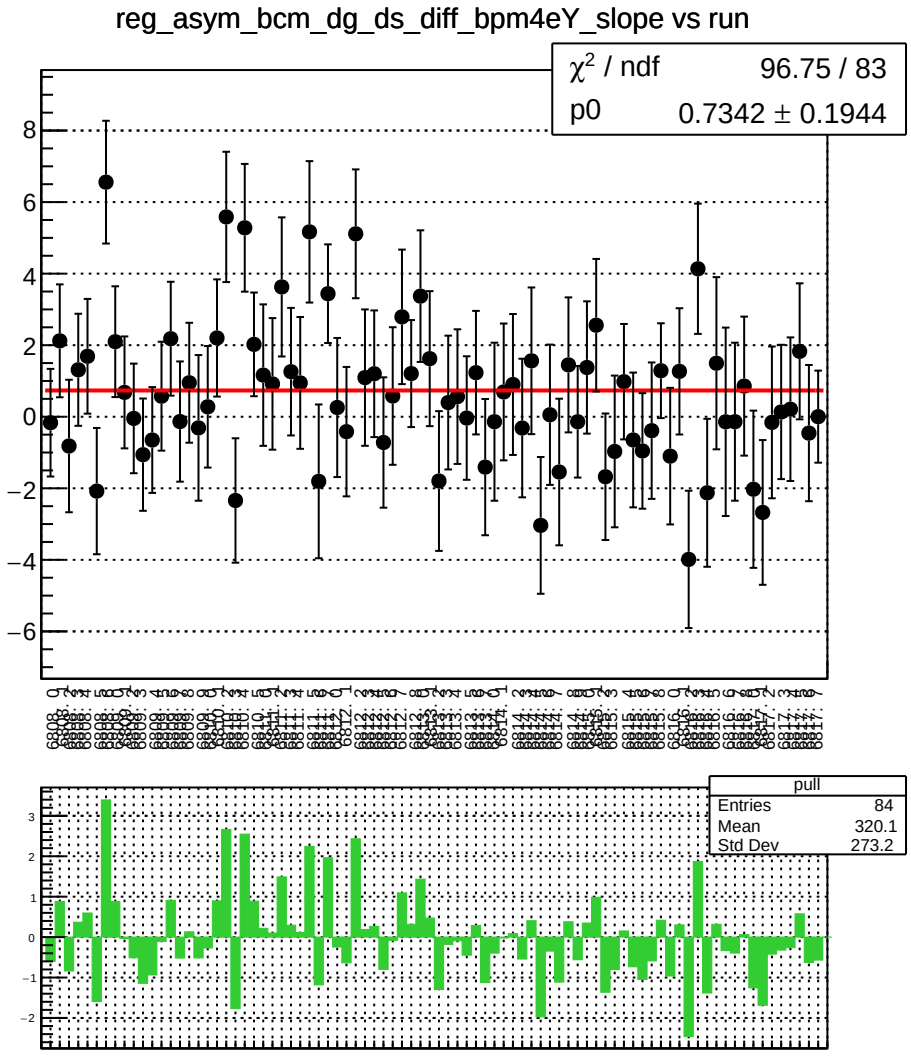

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 608.1 / 83
p0 −25.1 ± 0.2499
pull
Entries 84
Mean 203.1
Std Dev 163.5

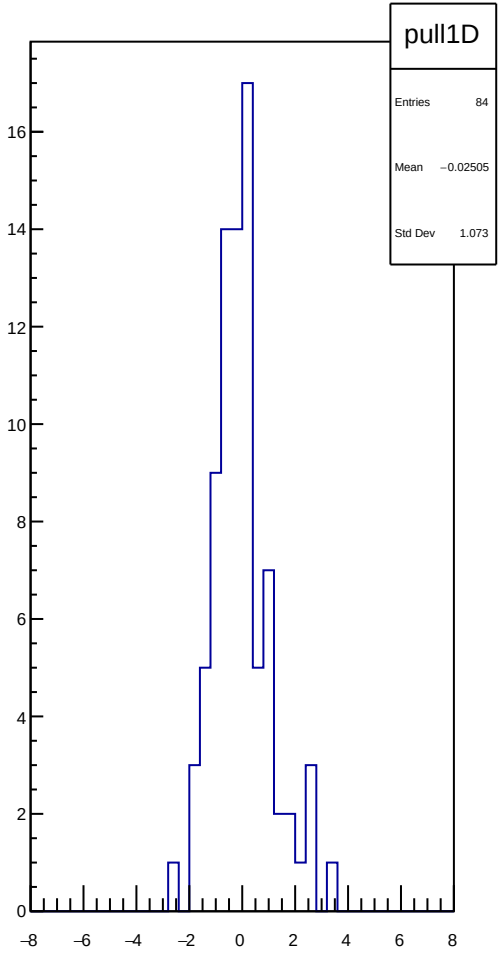

pull1D
Entries 84
Mean −0.229
Std Dev 2.681

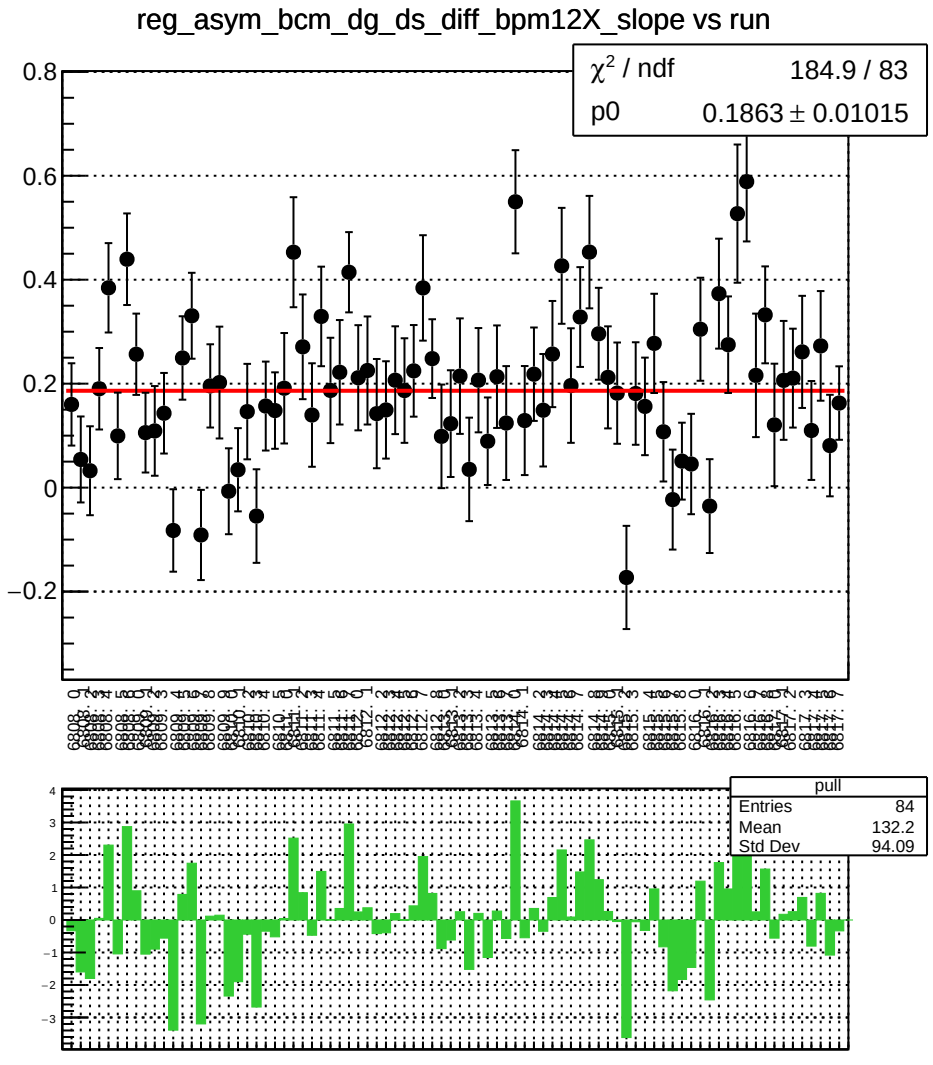

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 87.5 / 83
p0 −0.3106 ± 0.1612
pull
Entries 84
Mean 223.5
Std Dev 175.4
pull1D
Entries 84
Mean 0.03396
Std Dev 1.02

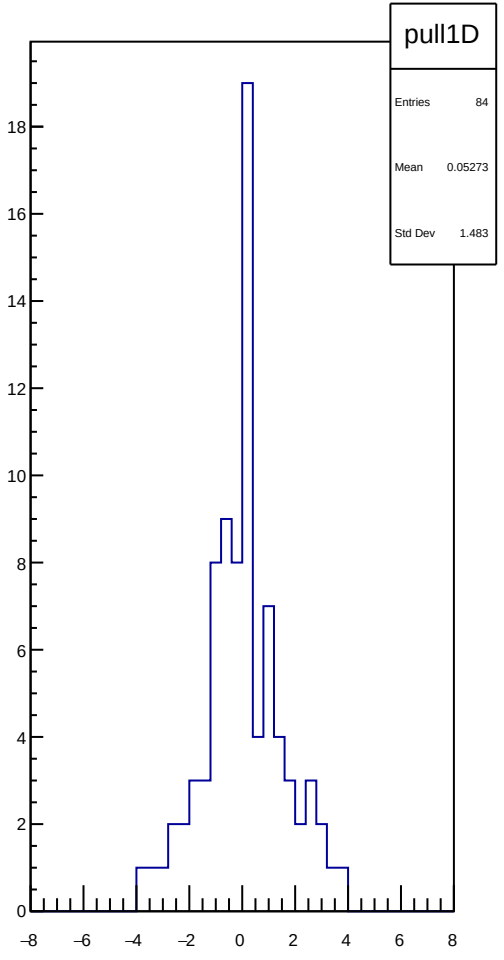

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 612.5 / 83
p0 23.17 ± 0.2337
pull
Entries 84
Mean 205.7
Std Dev 165.9

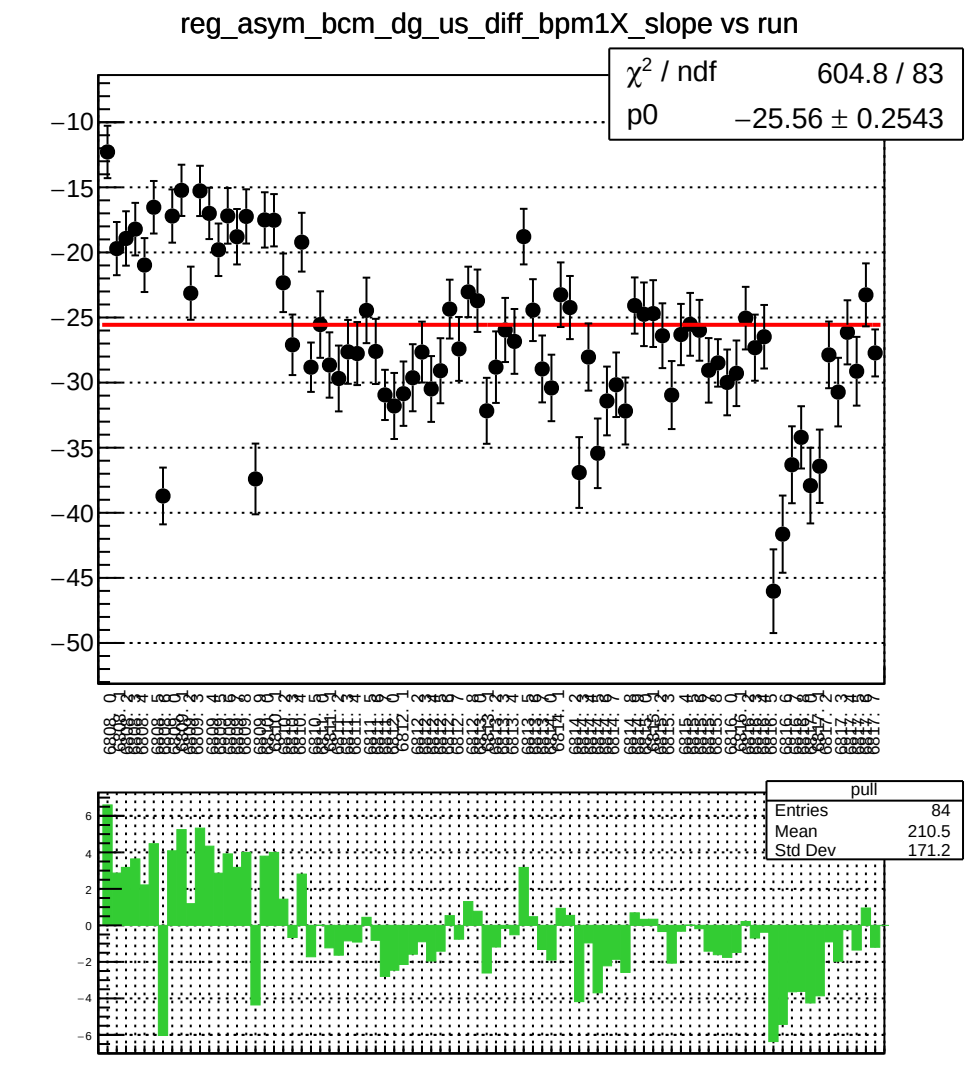

pull1D
Entries 84
Mean 0.2296
Std Dev 2.691

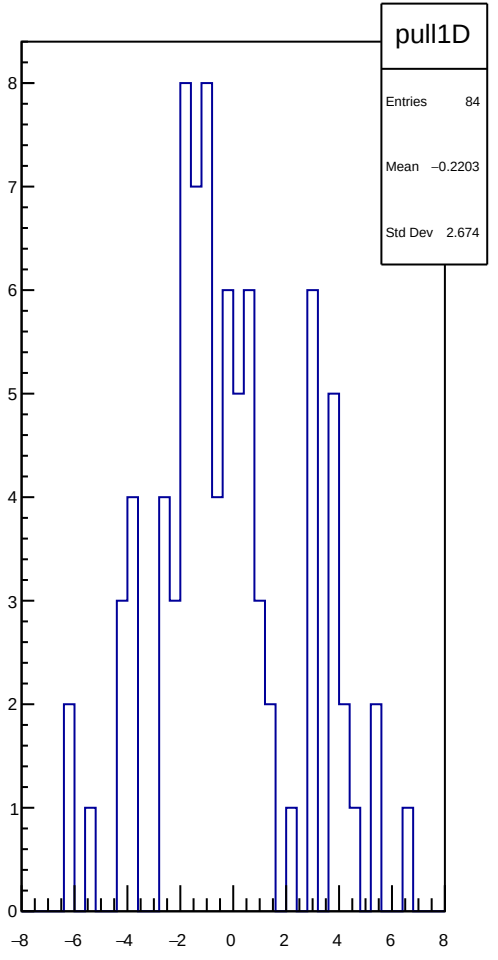

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 96.75 / 83
p0 0.7342 ± 0.1944
pull
Entries 84
Mean 320.1
Std Dev 273.2

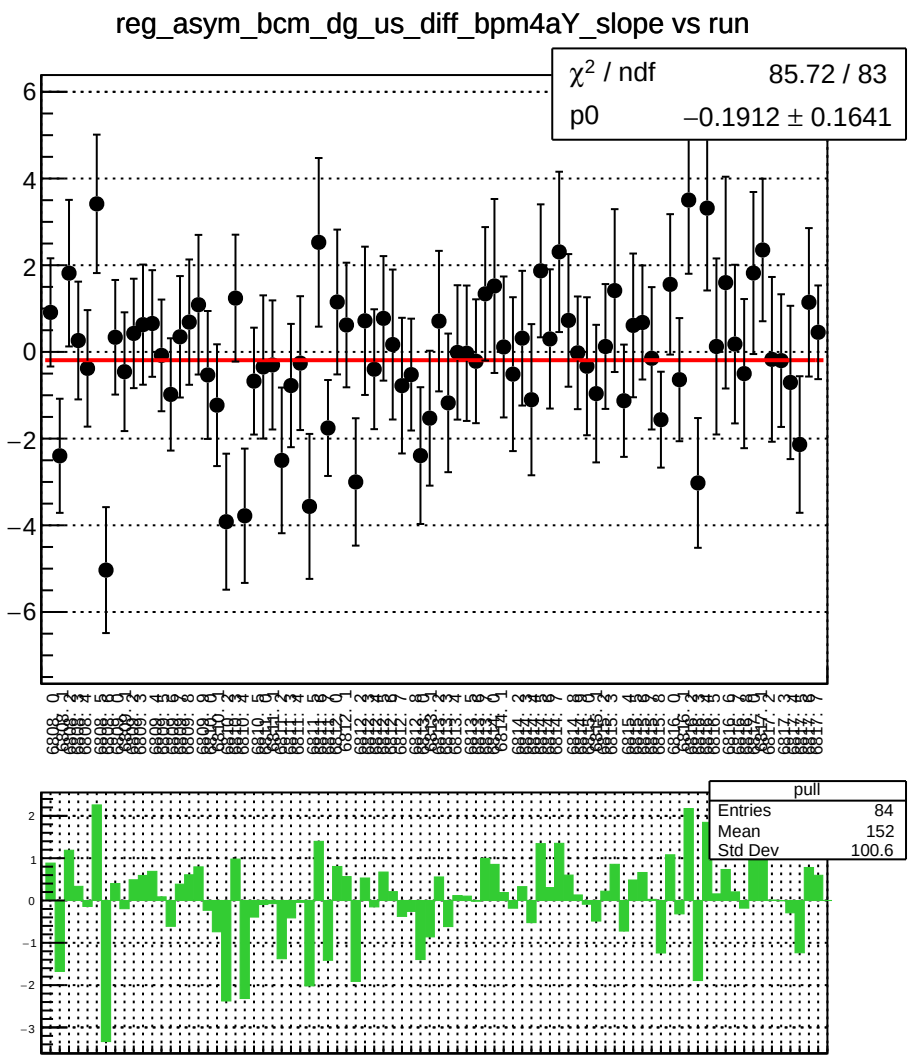

pull1D
Entries 84
Mean −0.02505
Std Dev 1.073

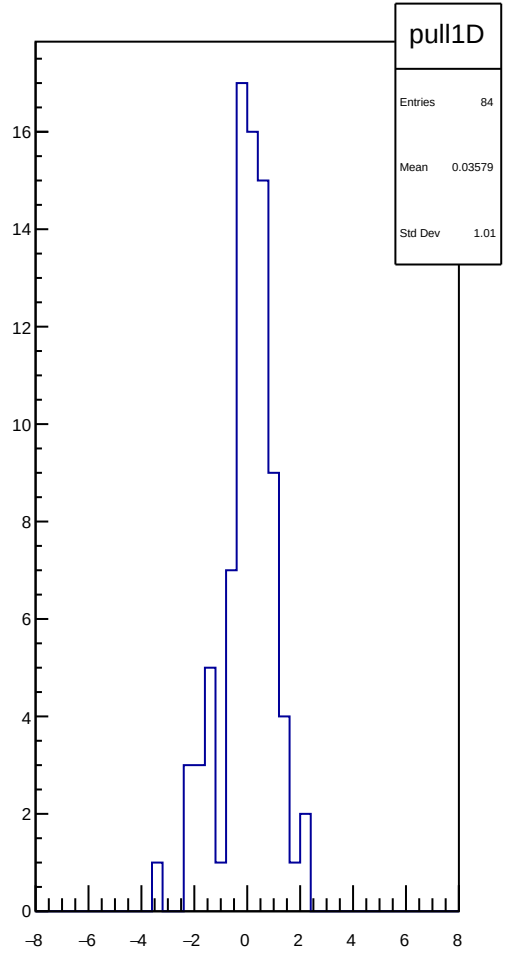

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 184.9 / 83
p0 0.1863 ± 0.01015
pull
Entries 84
Mean 132.2
Std Dev 94.09

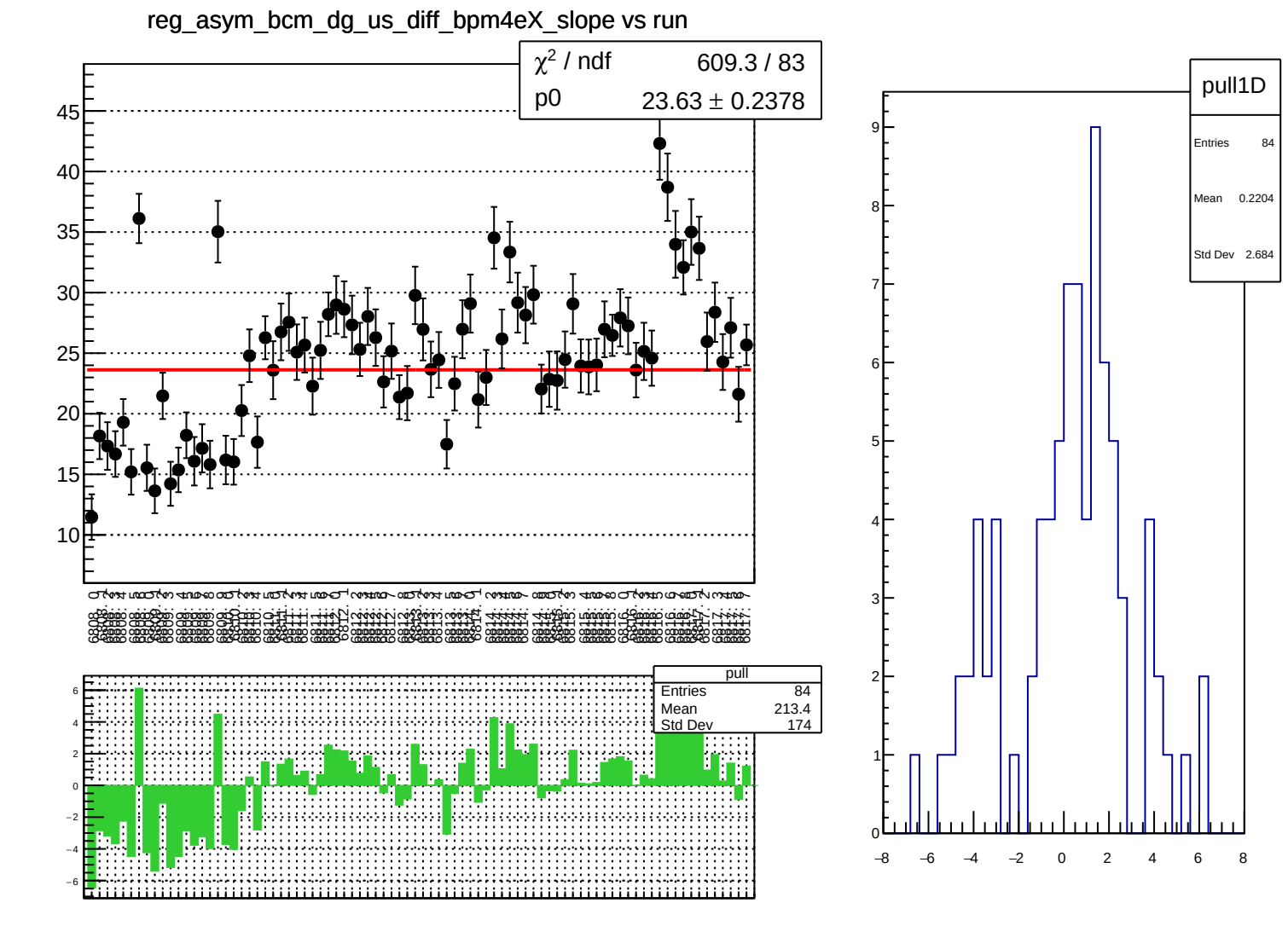

pull1D
Entries 84
Mean 0.05273
Std Dev 1.483

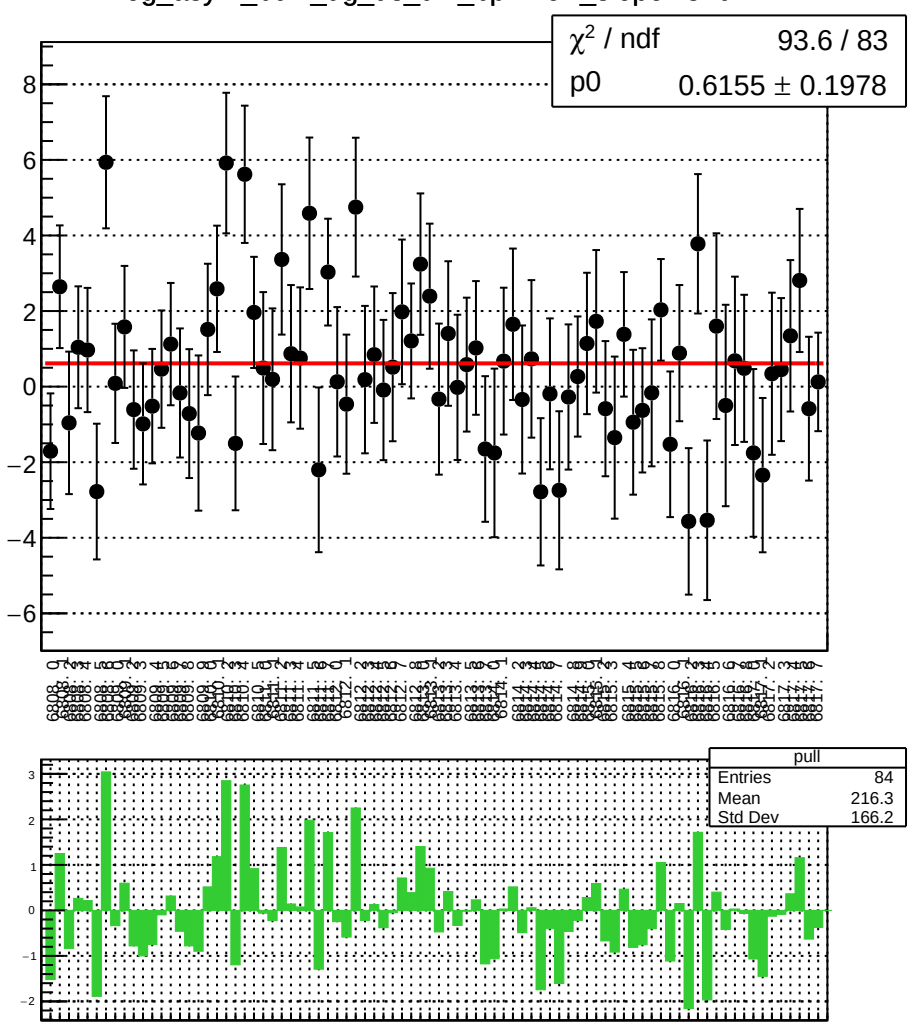

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 604.8 / 83
p0 −25.56 ± 0.2543
pull
Entries 84
Mean 210.5
Std Dev 171.2

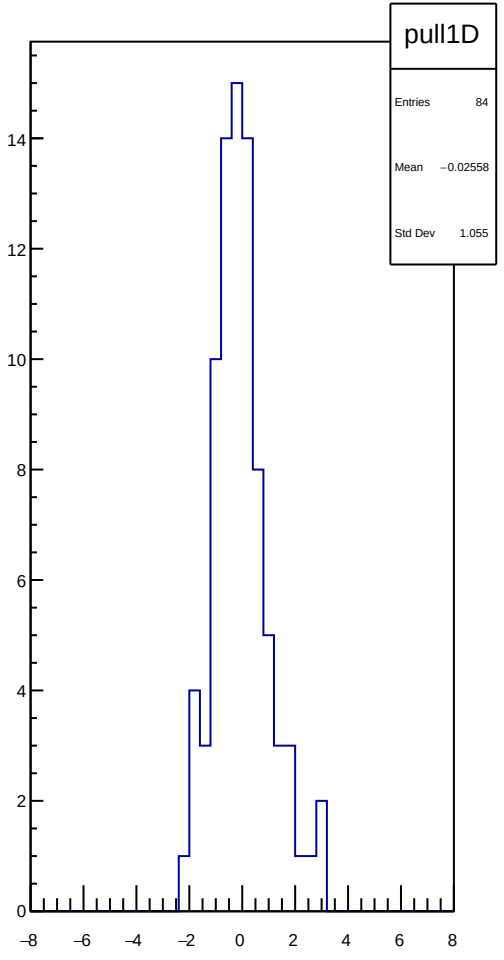

pull1D
Entries 84
Mean −0.2203
Std Dev 2.674

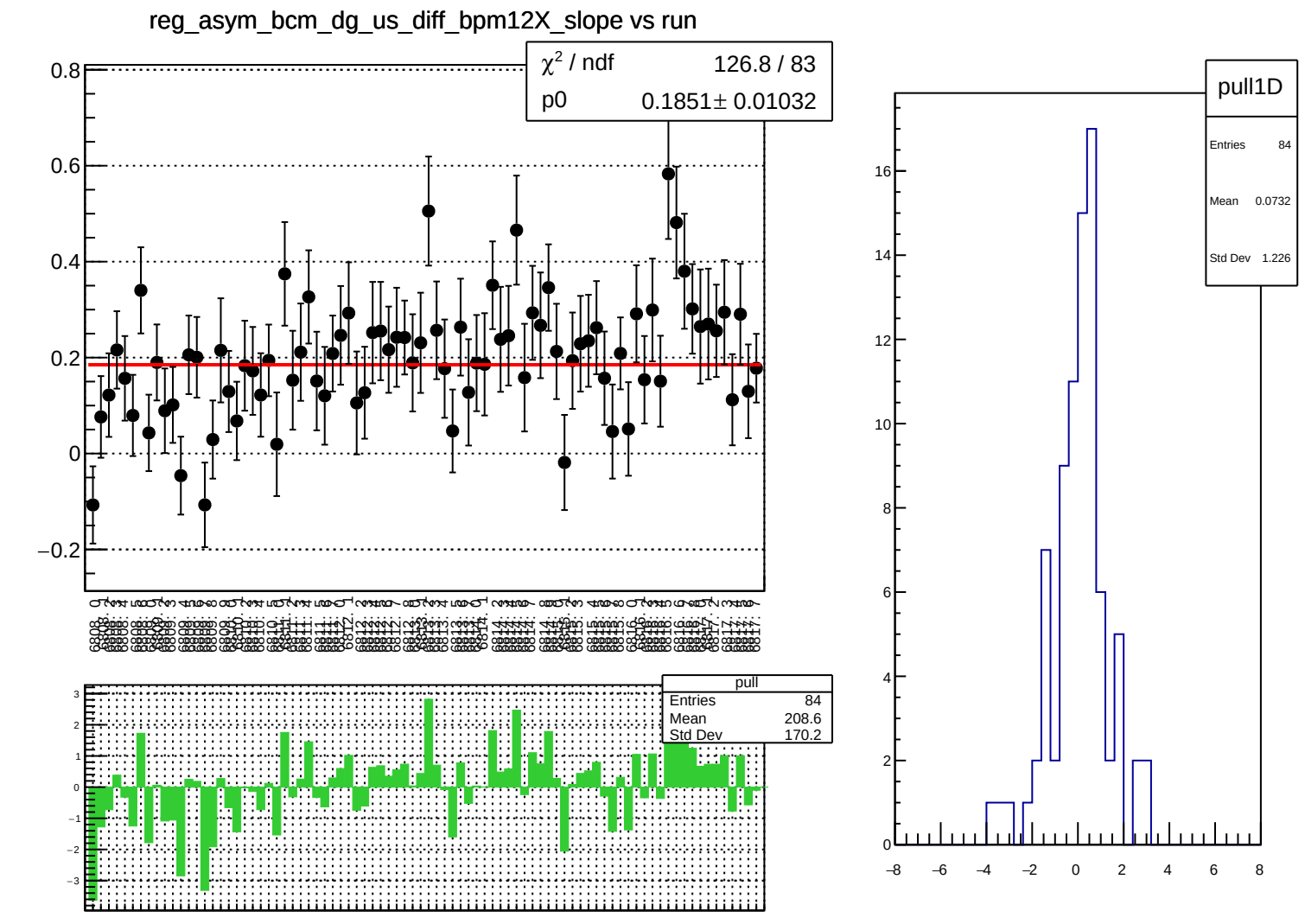

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 85.72 / 83
p0 −0.1912 ± 0.1641
pull
Entries 84
Mean 152
Std Dev 100.6


pull1D
Entries 84
Mean 0.03579
Std Dev 1.01


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 609.3 / 83
p0 23.63 ± 0.2378
pull
Entries 84
Mean 213.4
Std Dev 174
pull1D
Entries 84
Mean 0.2204
Std Dev 2.684


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 93.6 / 83
p0 0.6155 ± 0.1978
pull
Entries 84
Mean 216.3
Std Dev 166.2


pull1D
Entries 84
Mean −0.02558
Std Dev 1.055


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 126.8 / 83
p0 0.1851± 0.01032
pull
Entries 84
Mean 208.6
Std Dev 170.2
pull1D
Entries 84
Mean 0.0732
Std Dev 1.226