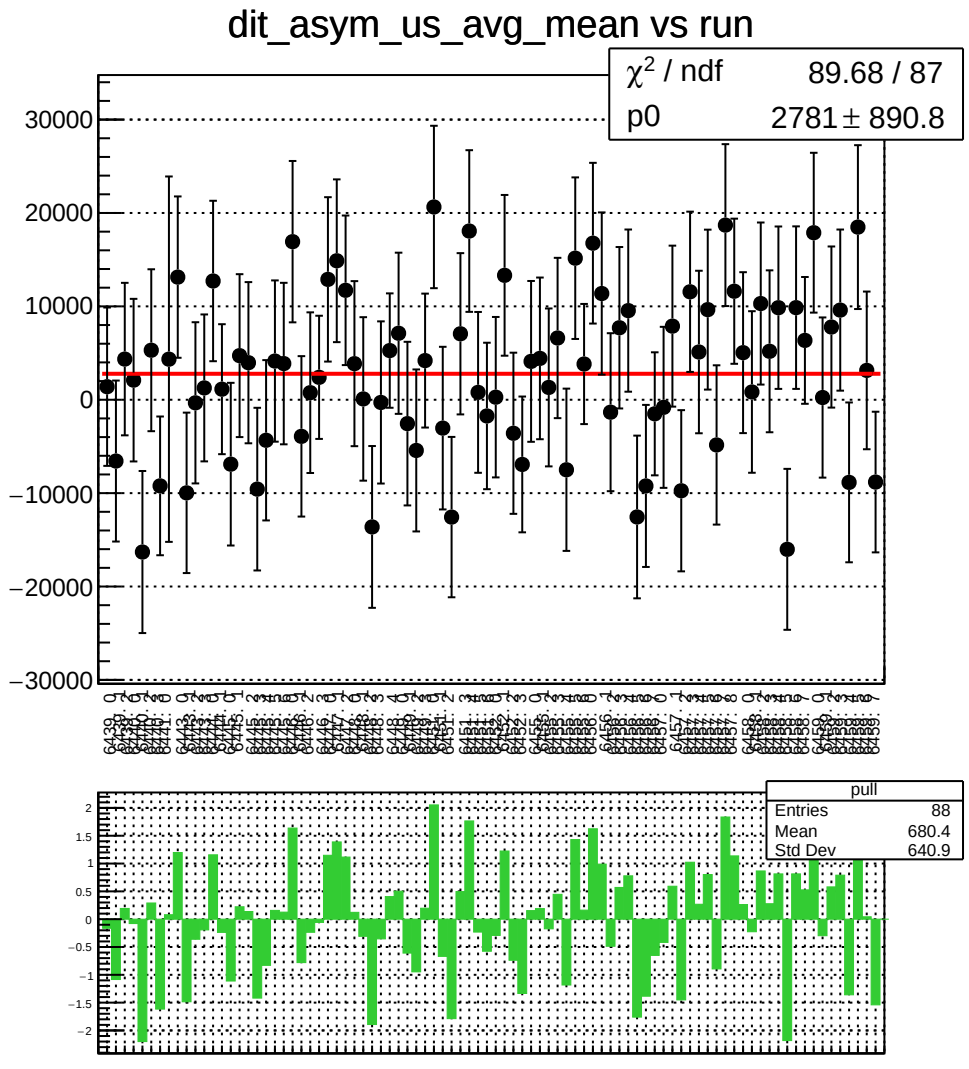
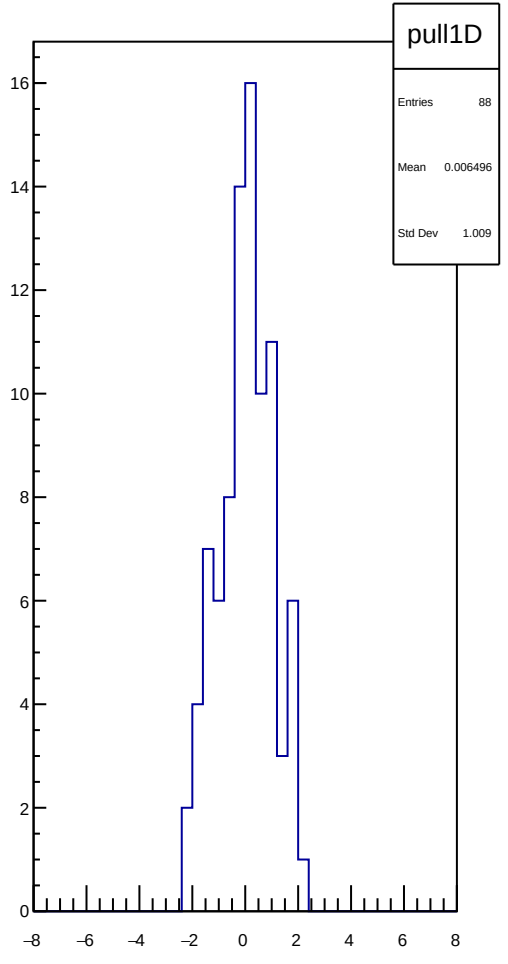
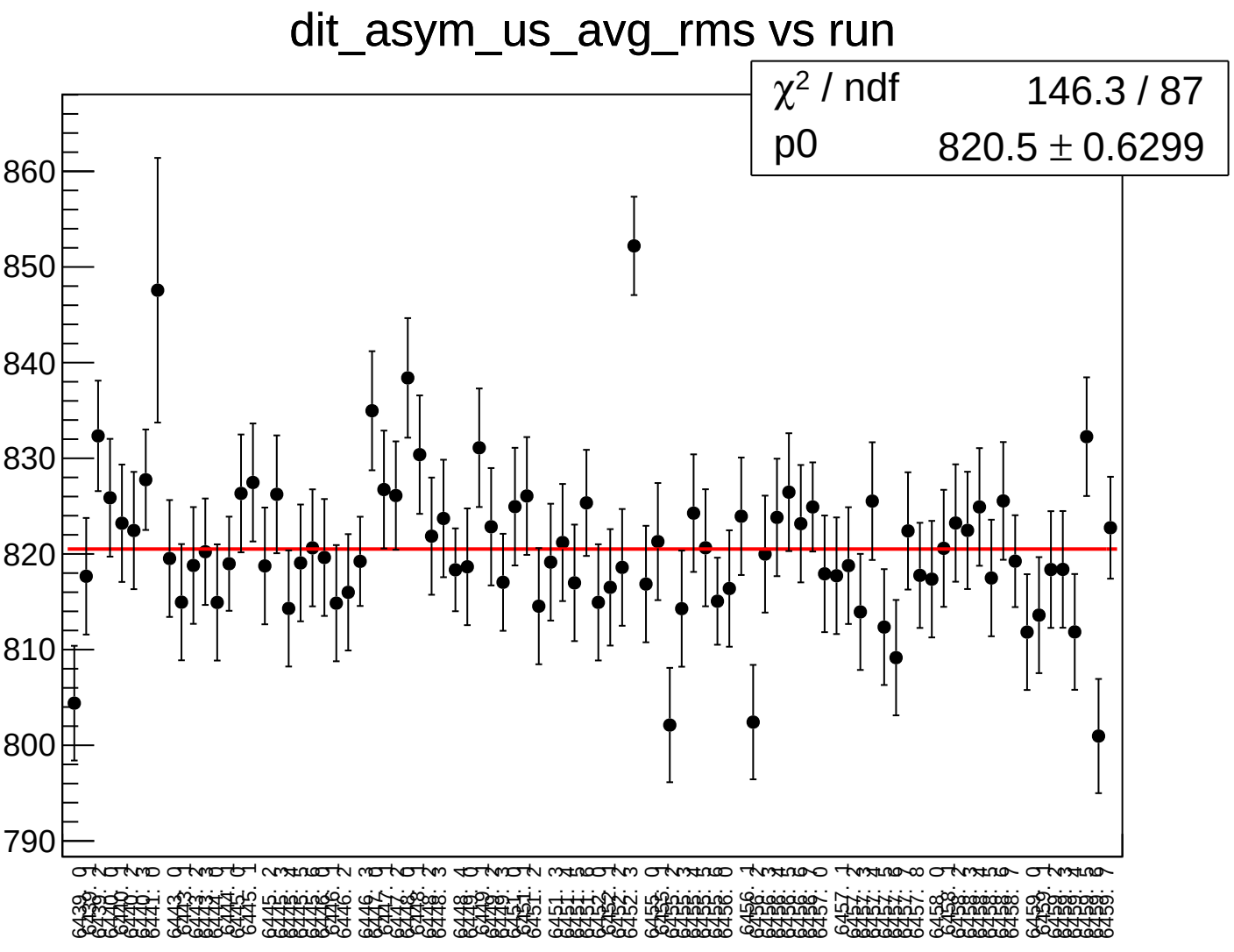
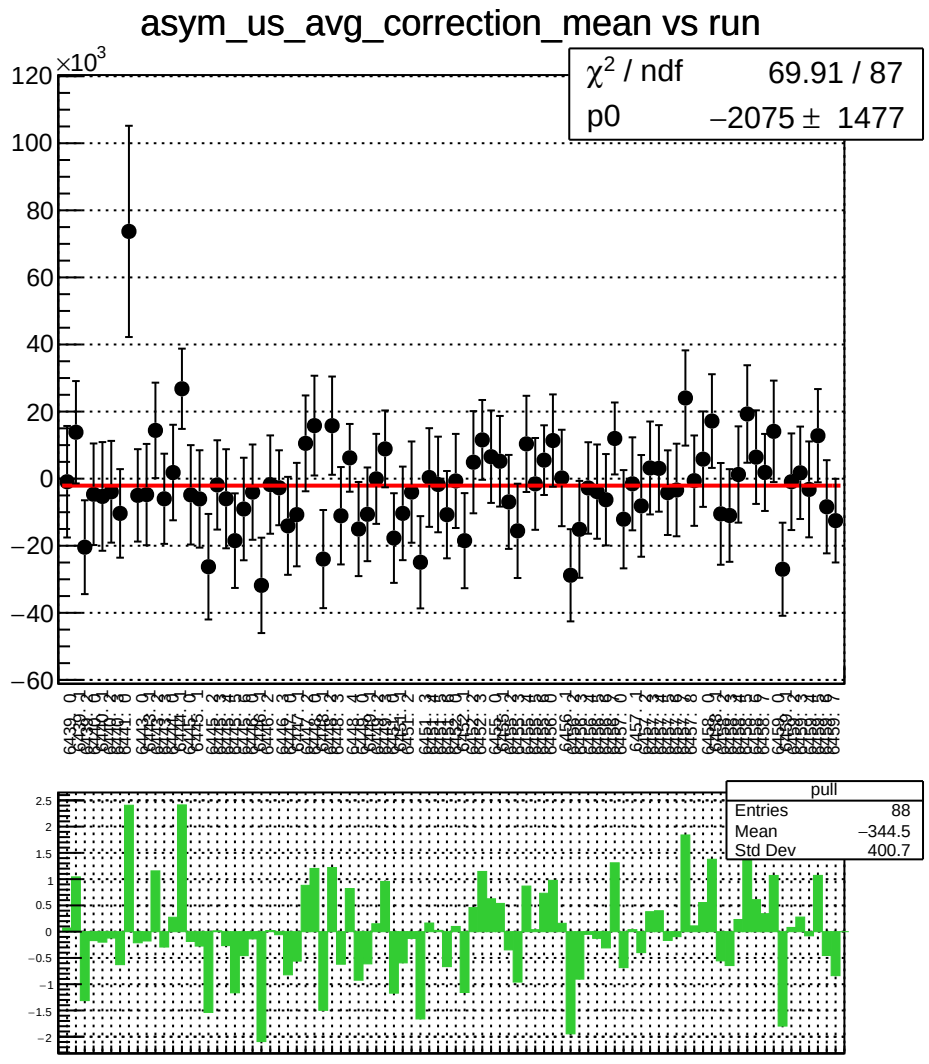
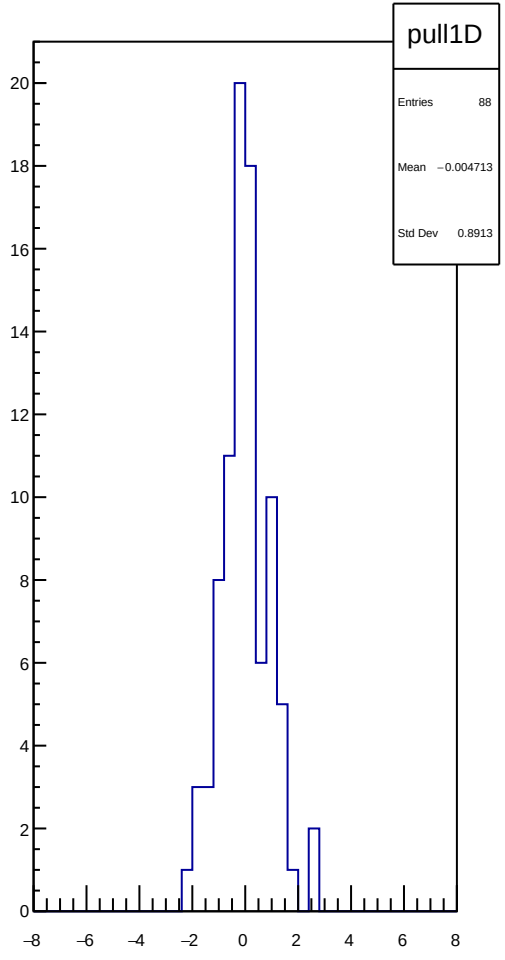
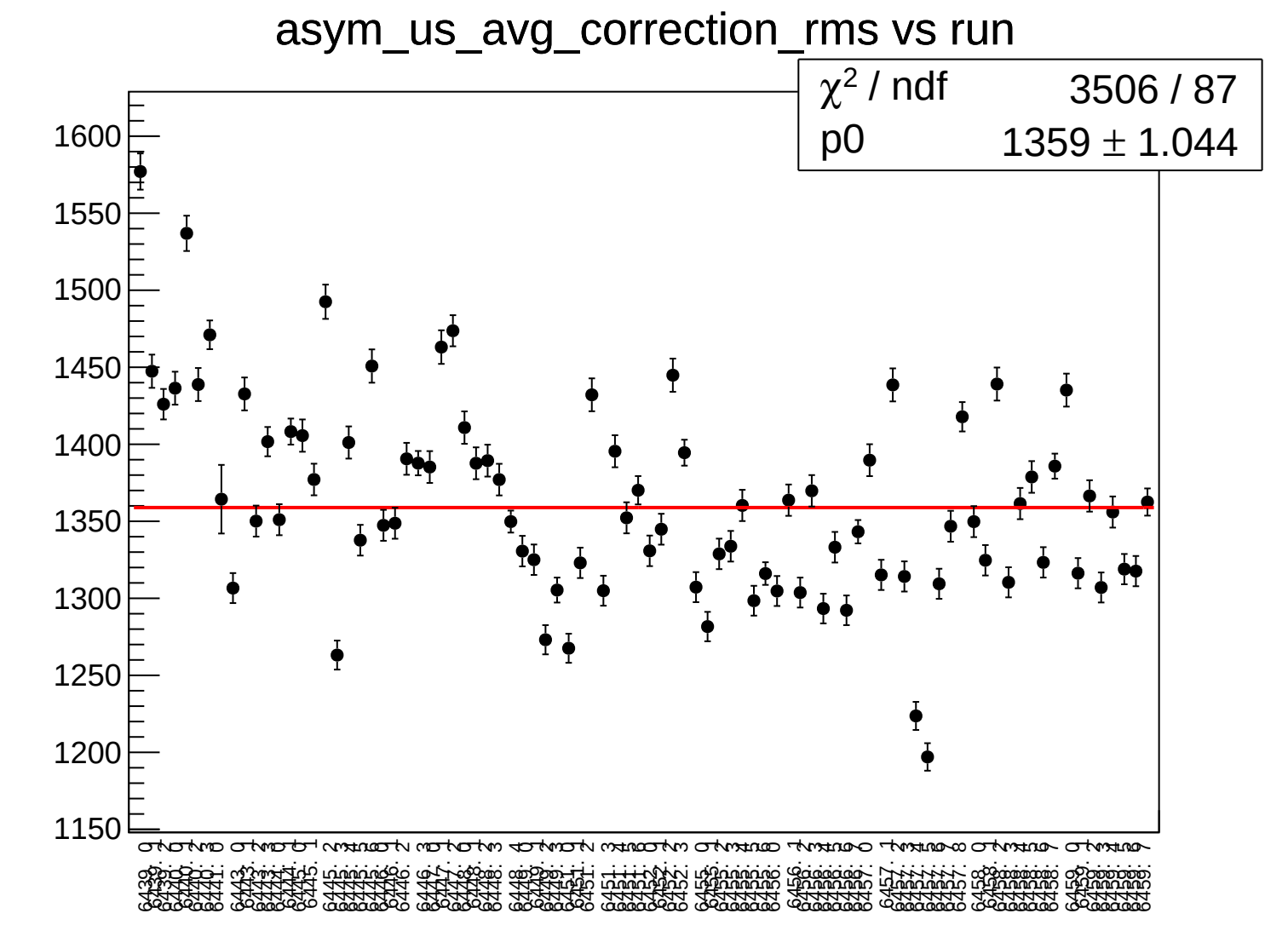

dit_asym_us_avg_mean vs run
χ² / ndf 89.68 / 87
p0 2781 ± 890.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 680.4
Std Dev 640.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

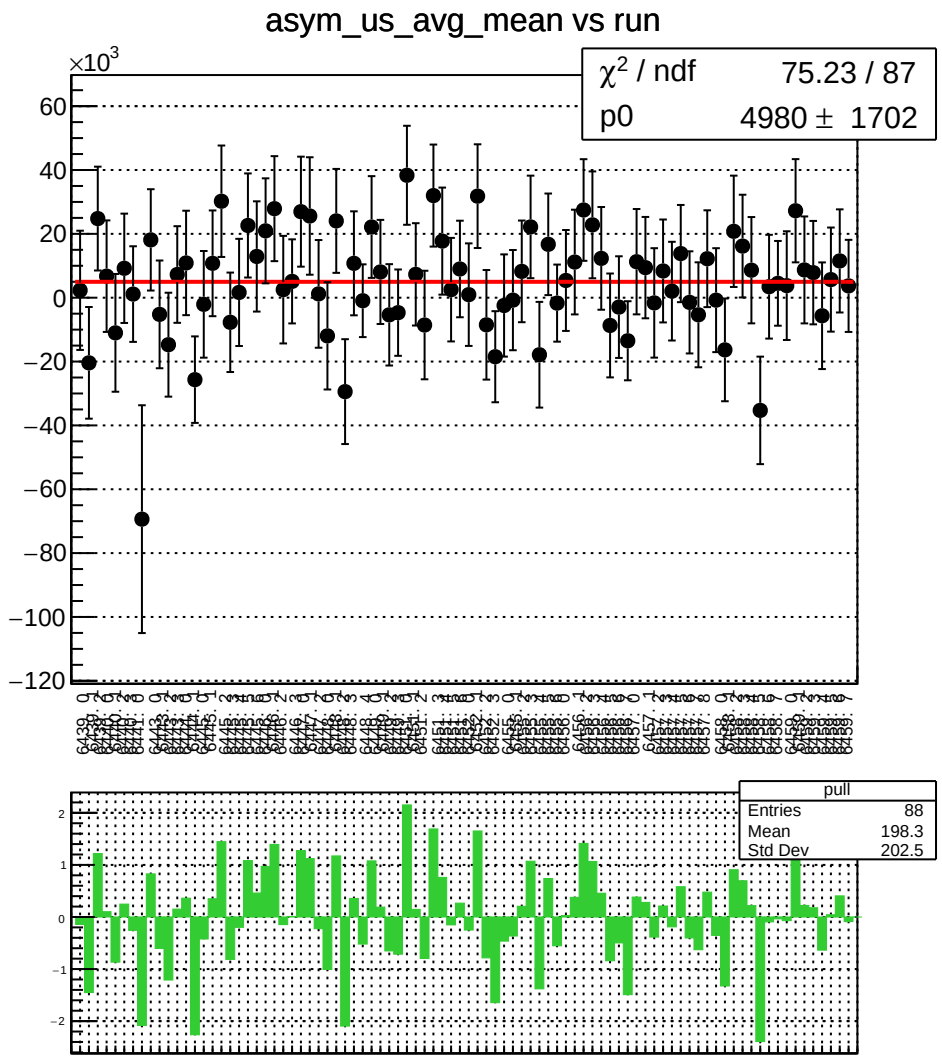

pull1D
Entries 88
Mean 0.006496
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

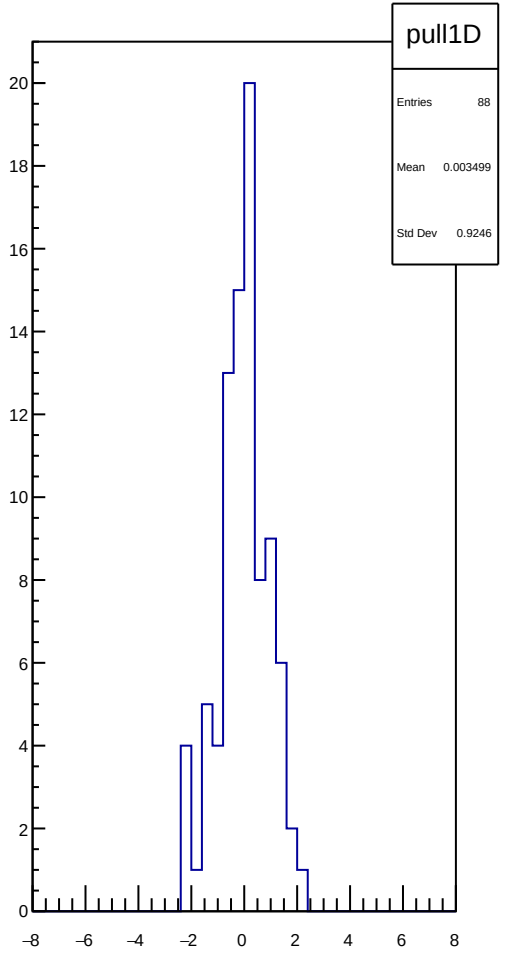

dit_asym_us_avg_rms vs run
χ² / ndf 146.3 / 87
p0 820.5 ± 0.6299
860
850
840
830
820
810
800
790

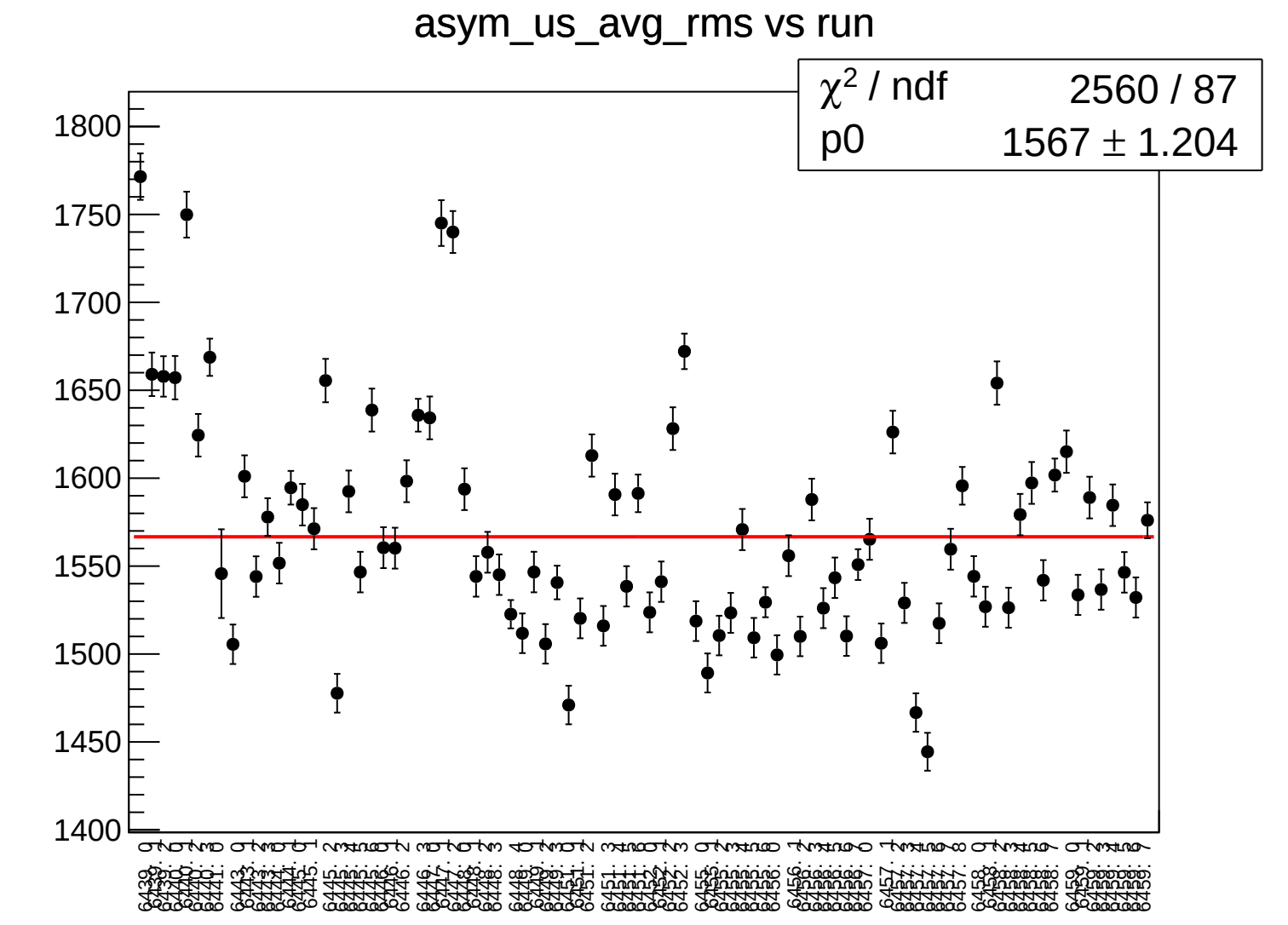

asym_us_avg_correction_mean vs run
χ^2 / ndf 69.91 / 87
p0 −2075 ± 1477
×10^3
pull
Entries 88
Mean −344.5
Std Dev 400.7

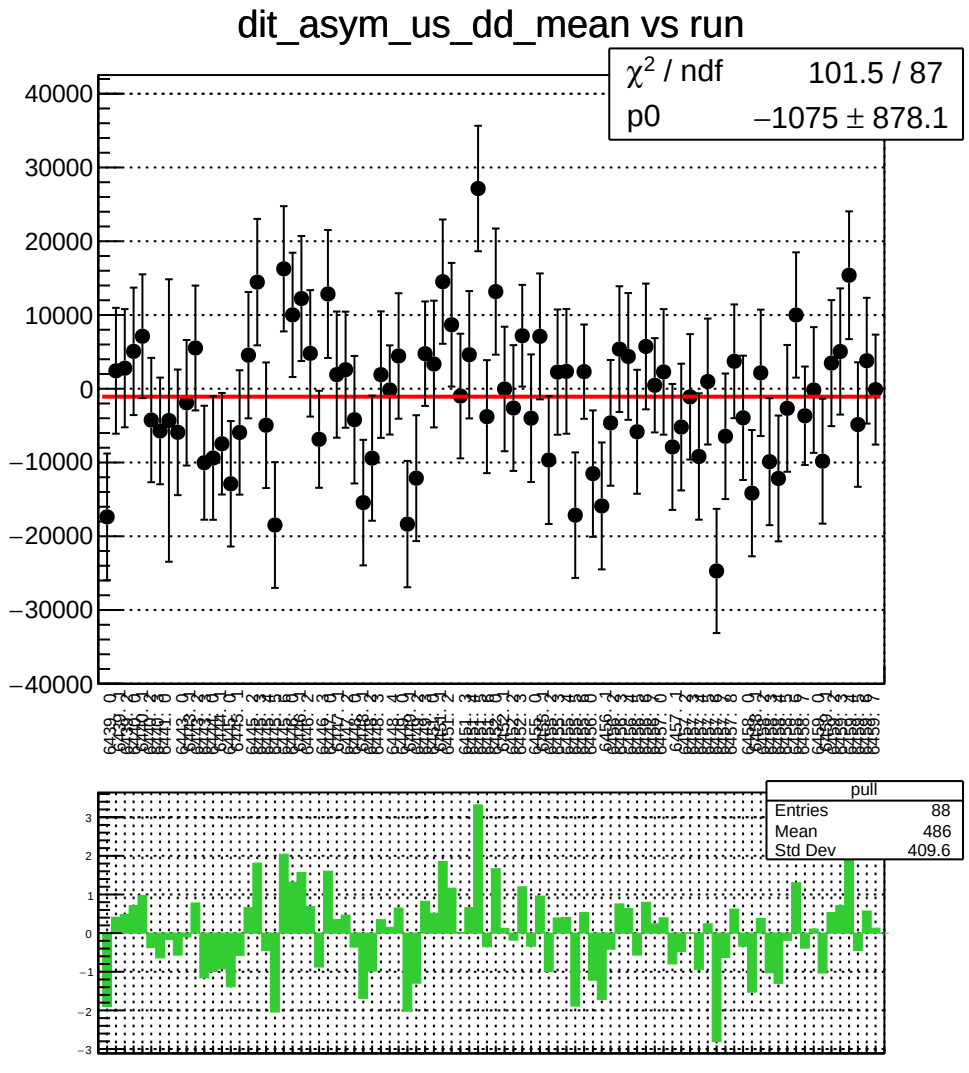

pull1D
Entries 88
Mean −0.004713
Std Dev 0.8913

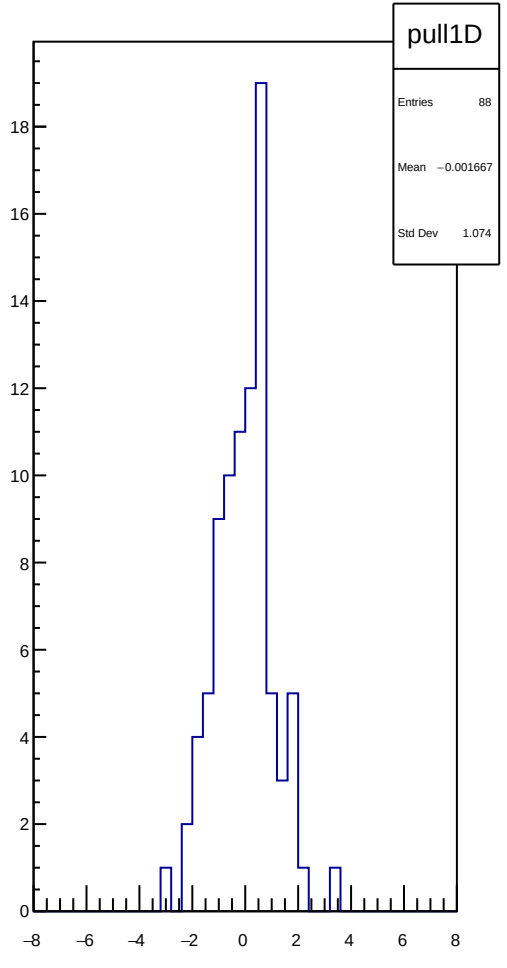

asym_us_avg_correction_rms vs run
χ² / ndf 3506 / 87
p0 1359 ± 1.044
1600
1550
1500
1450
1400
1350
1300
1250
1200
1150

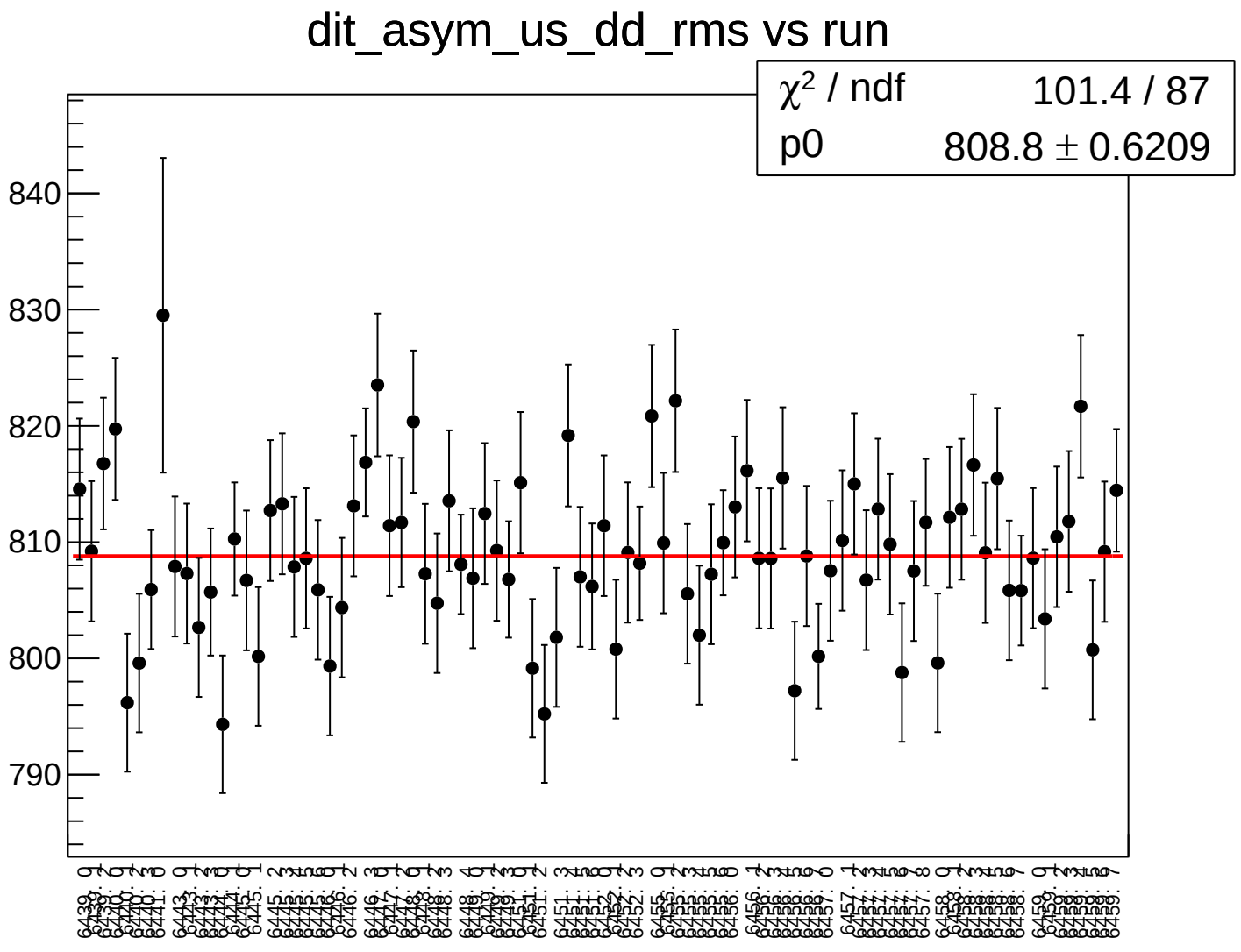

asym_us_avg_mean vs run
×10^3
χ^2 / ndf 75.23 / 87
p0 4980 ± 1702
pull
Entries 88
Mean 198.3
Std Dev 202.5

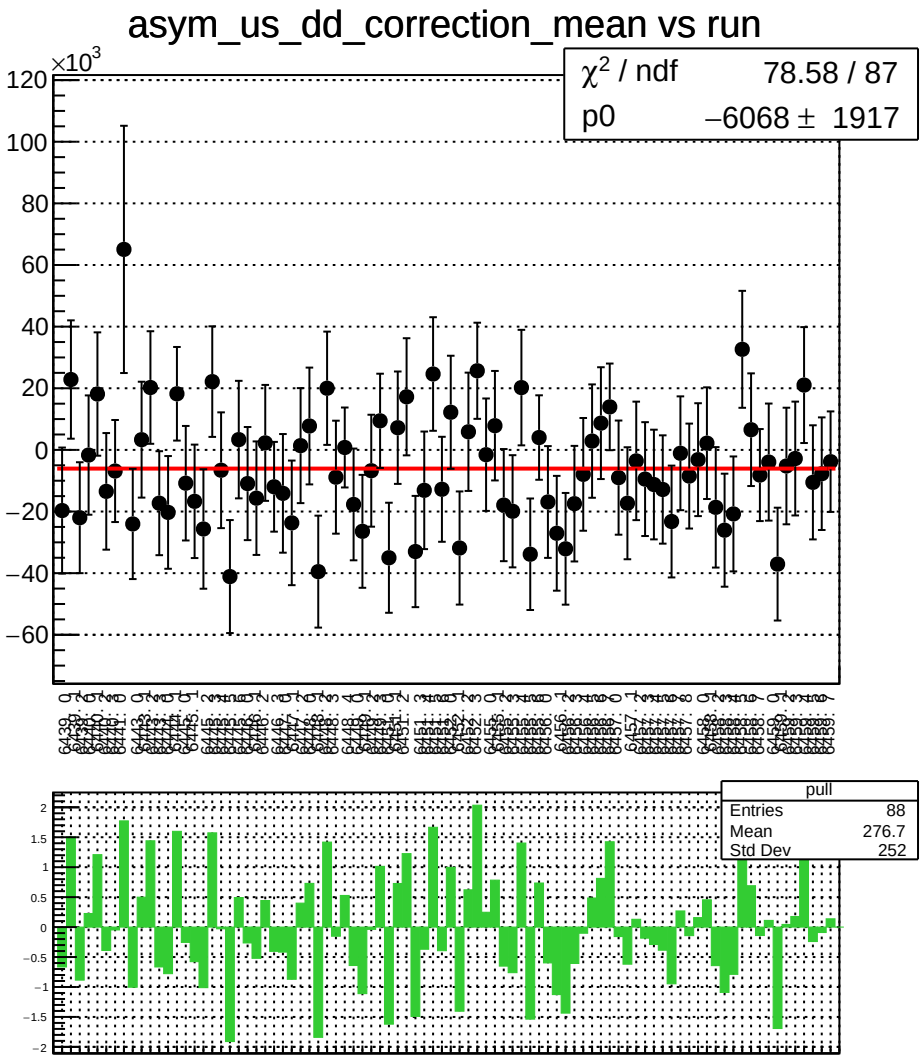

pull1D
Entries 88
Mean 0.003499
Std Dev 0.9246

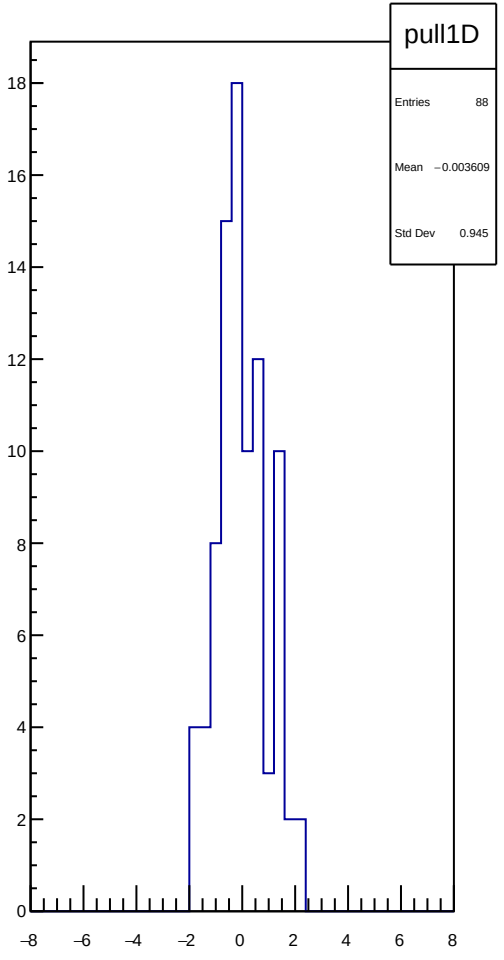

asym_us_avg_rms vs run
χ² / ndf 2560 / 87
p0 1567 ± 1.204
1800
1750
1700
1650
1600
1550
1500
1450
1400

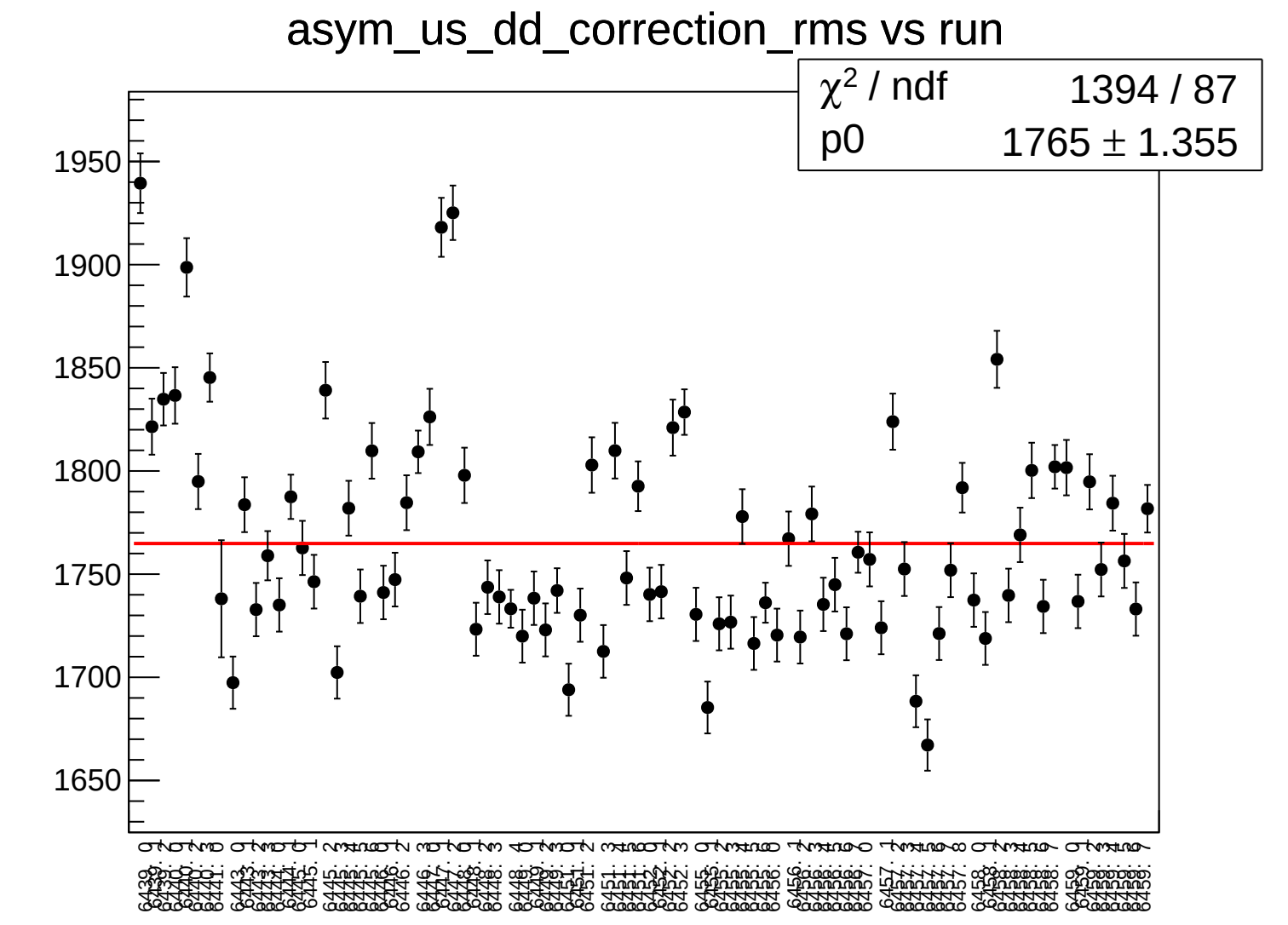

dit_asym_us_dd_mean vs run
χ² / ndf 101.5 / 87
p0 −1075 ± 878.1
pull
Entries 88
Mean 486
Std Dev 409.6

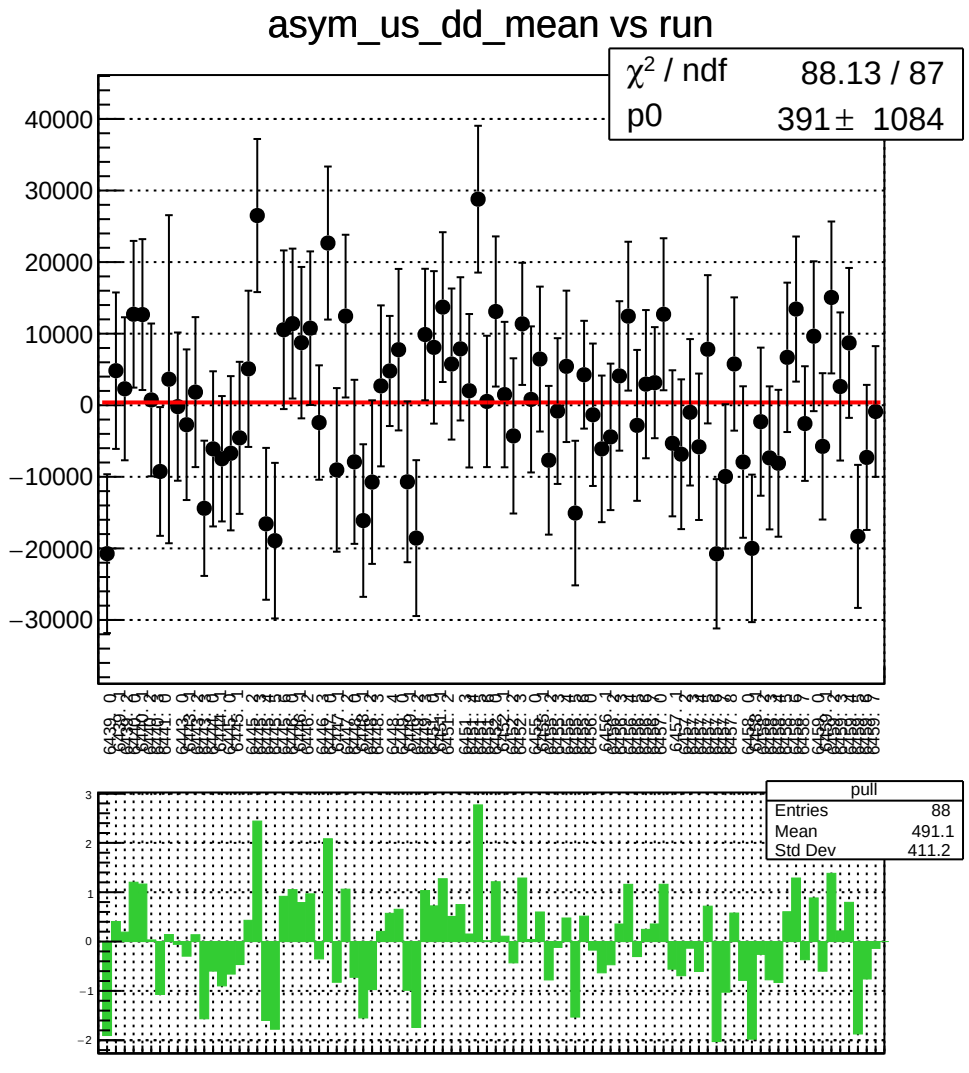

pull1D
Entries 88
Mean −0.001667
Std Dev 1.074

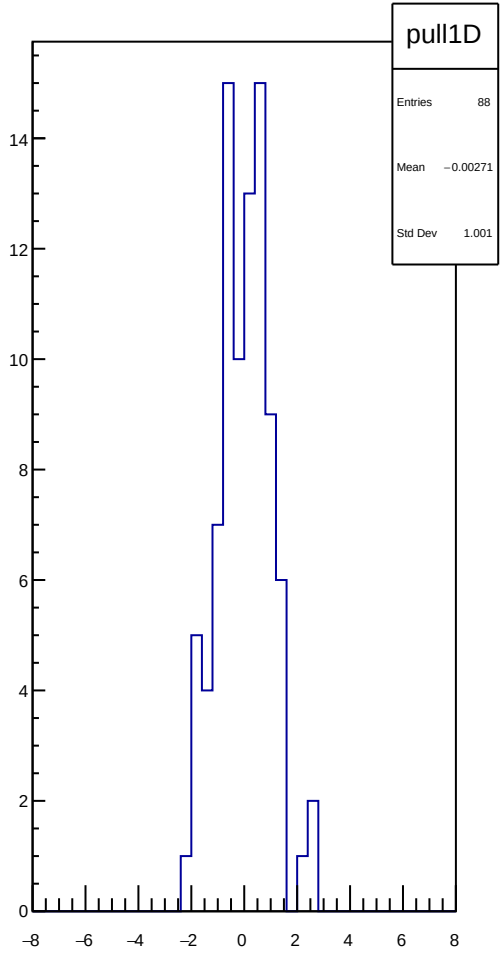

dit_asym_us_dd_rms vs run
χ^2 / ndf 101.4 / 87
p0 808.8 ± 0.6209
840
830
820
810
800
790

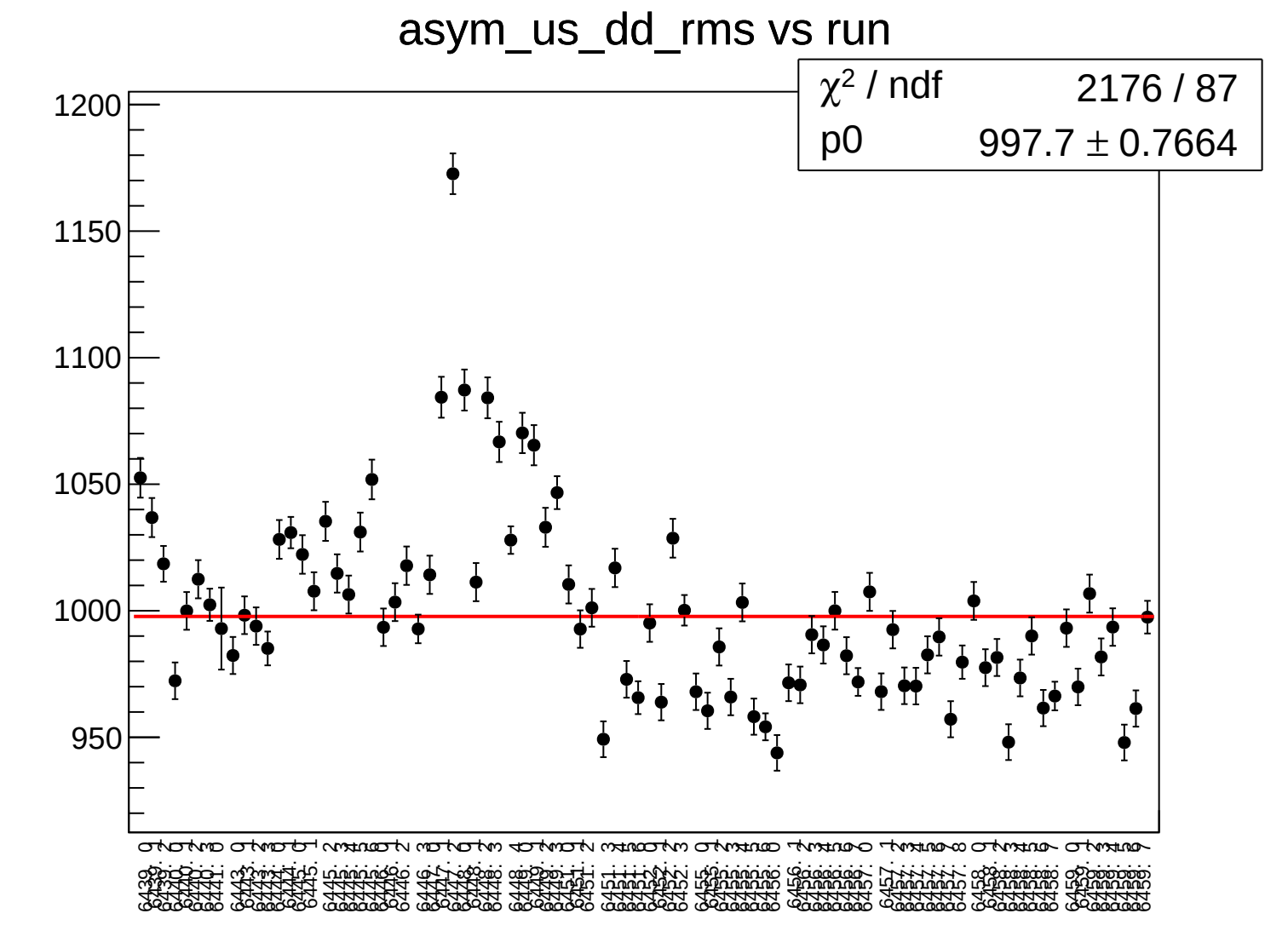

asym_us_dd_correction_mean vs run
χ^2 / ndf 78.58 / 87
p0 −6068 ± 1917
×10^3
pull
Entries 88
Mean 276.7
Std Dev 252

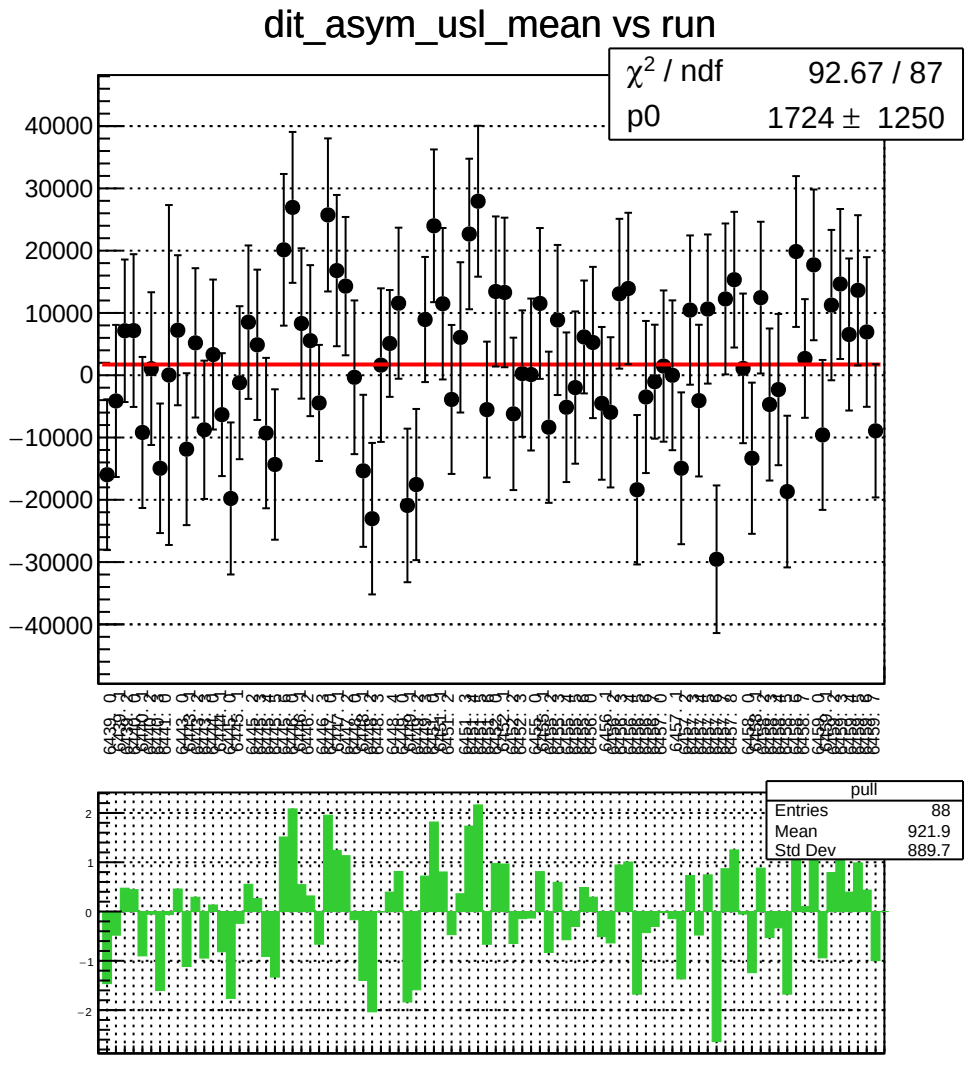

pull1D
Entries 88
Mean −0.003609
Std Dev 0.945

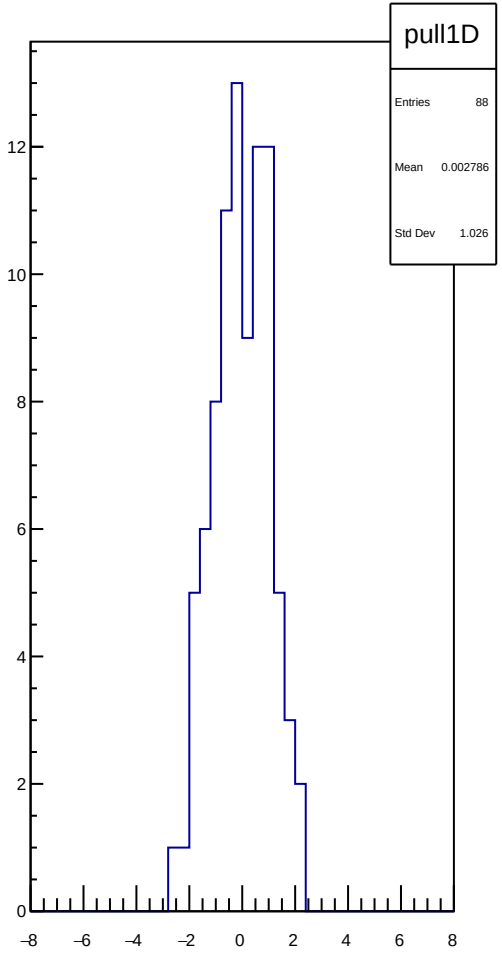

asym_us_dd_correction_rms vs run
χ² / ndf 1394 / 87
p0 1765 ± 1.355
1950
1900
1850
1800
1750
1700
1650

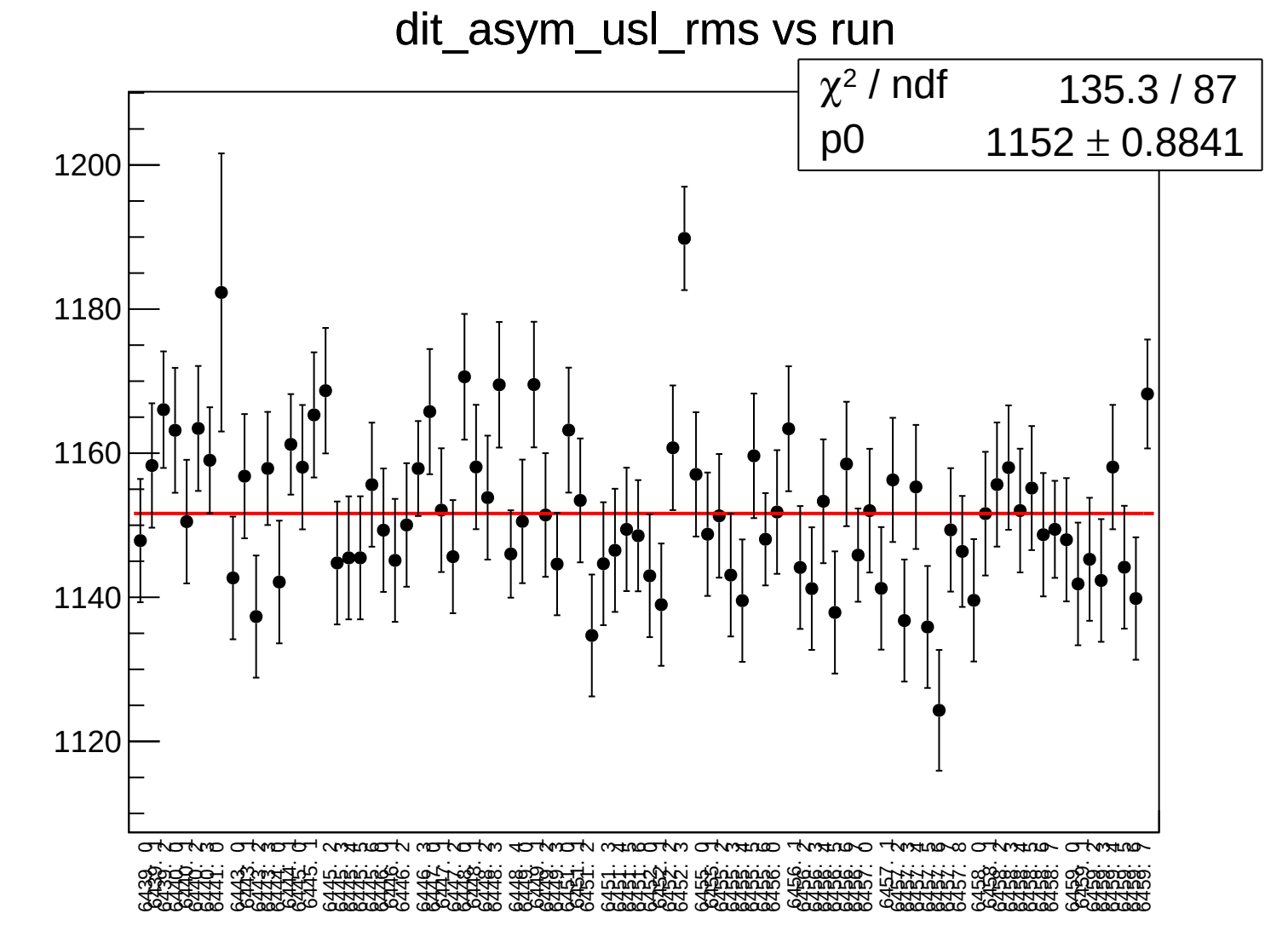

asym_us_dd_mean vs run
χ² / ndf 88.13 / 87
p0 391 ± 1084
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 491.1
Std Dev 411.2
3
2
1
0
−1
−2

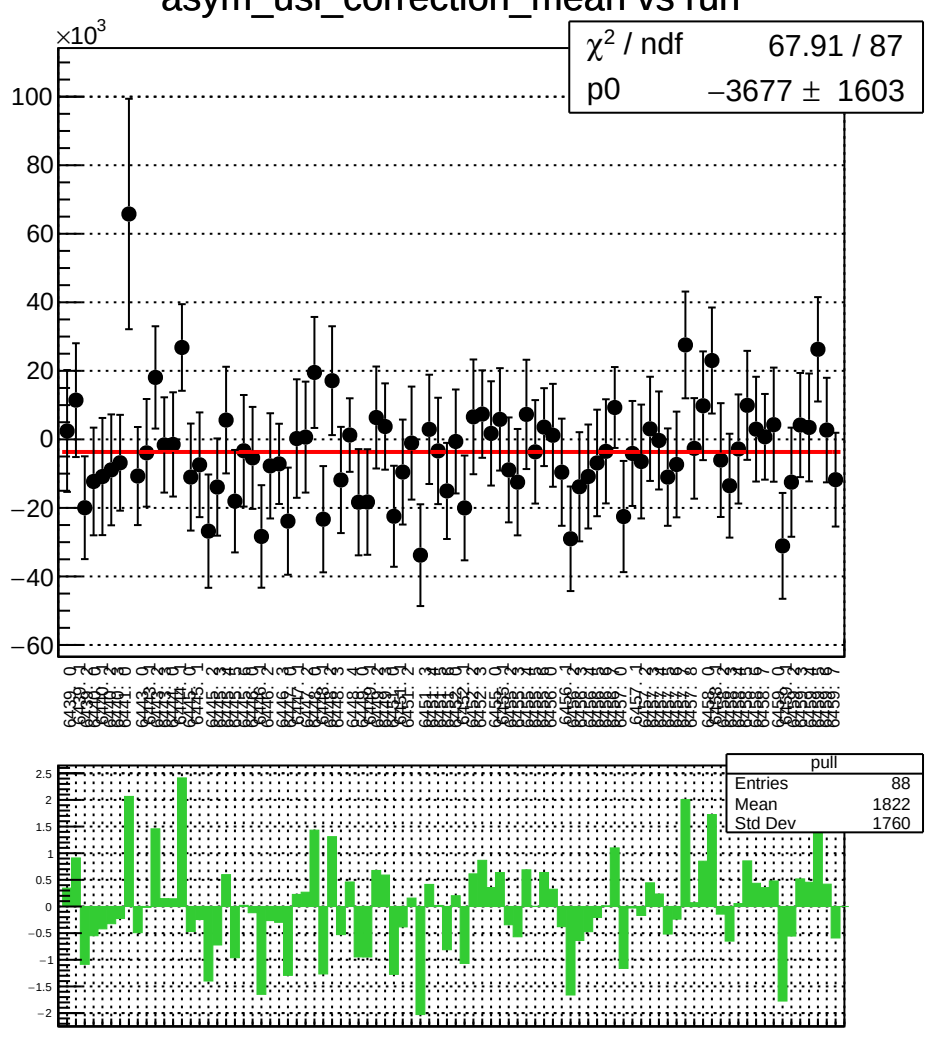

pull1D
Entries 88
Mean −0.00271
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

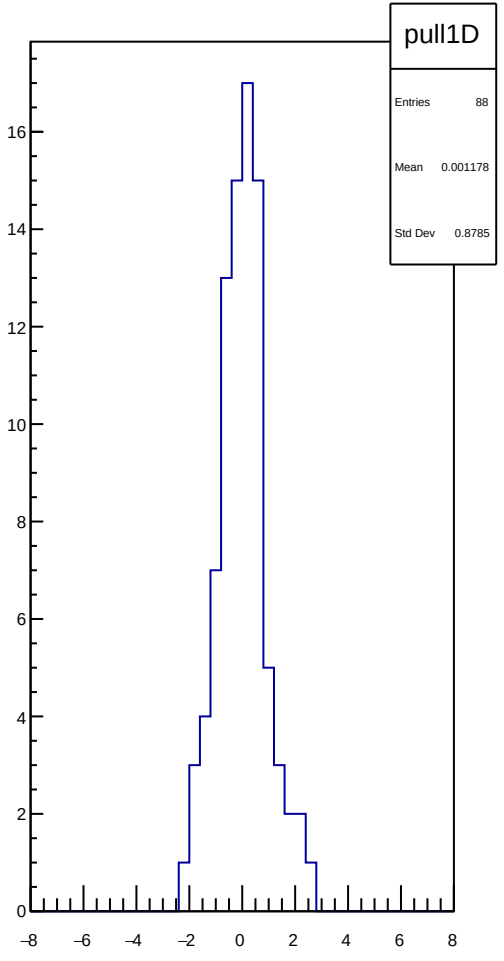

asym_us_dd_rms vs run
χ² / ndf 2176 / 87
p0 997.7 ± 0.7664
1200
1150
1100
1050
1000
950

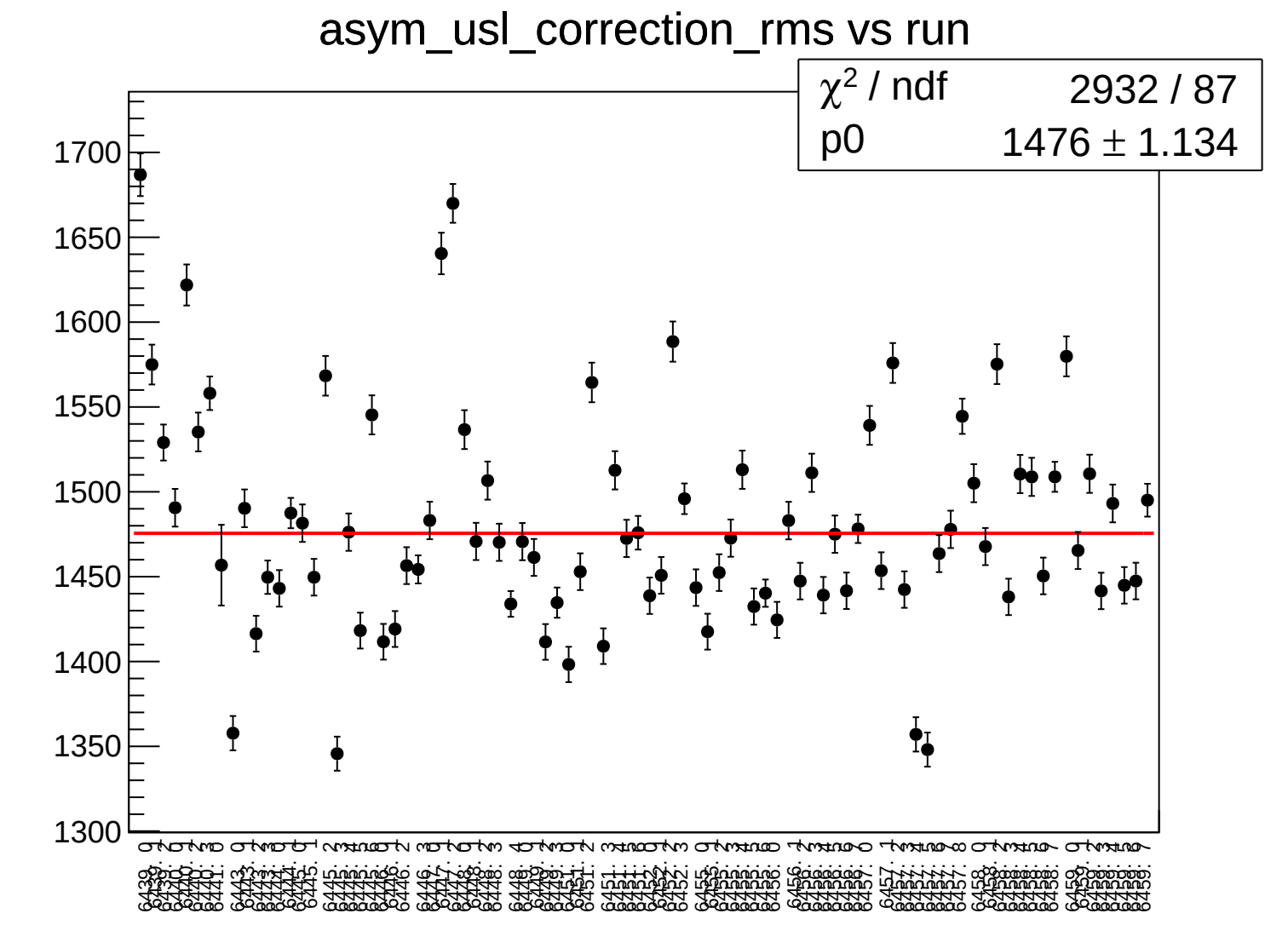

dit_asym_usl_mean vs run
χ² / ndf 92.67 / 87
p0 1724 ± 1250
pull
Entries 88
Mean 921.9
Std Dev 889.7

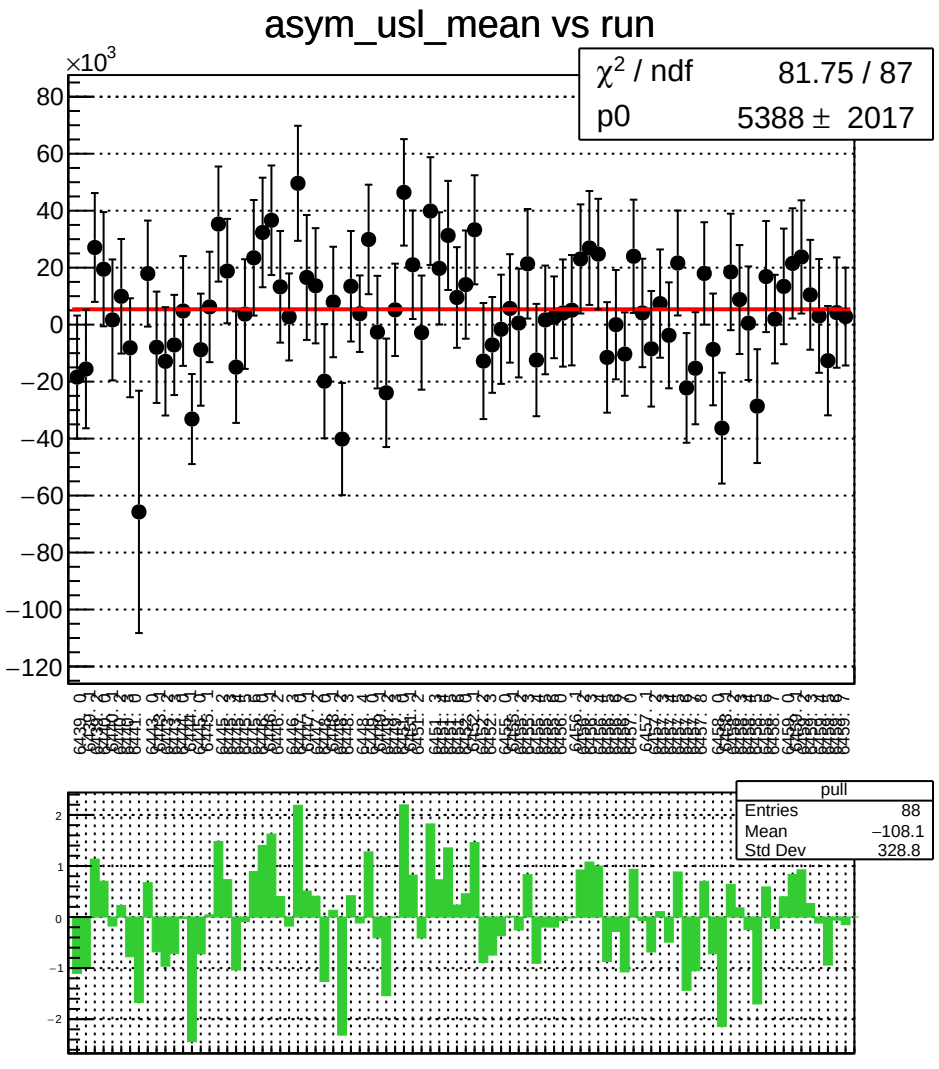

pull1D
Entries 88
Mean 0.002786
Std Dev 1.026

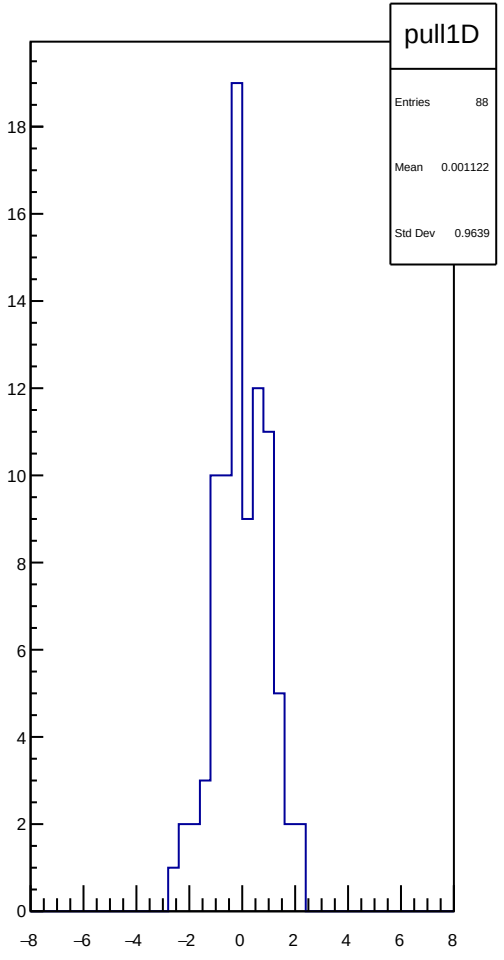

dit_asym_usl_rms vs run
χ² / ndf 135.3 / 87
p0 1152 ± 0.8841
1200
1180
1160
1140
1120

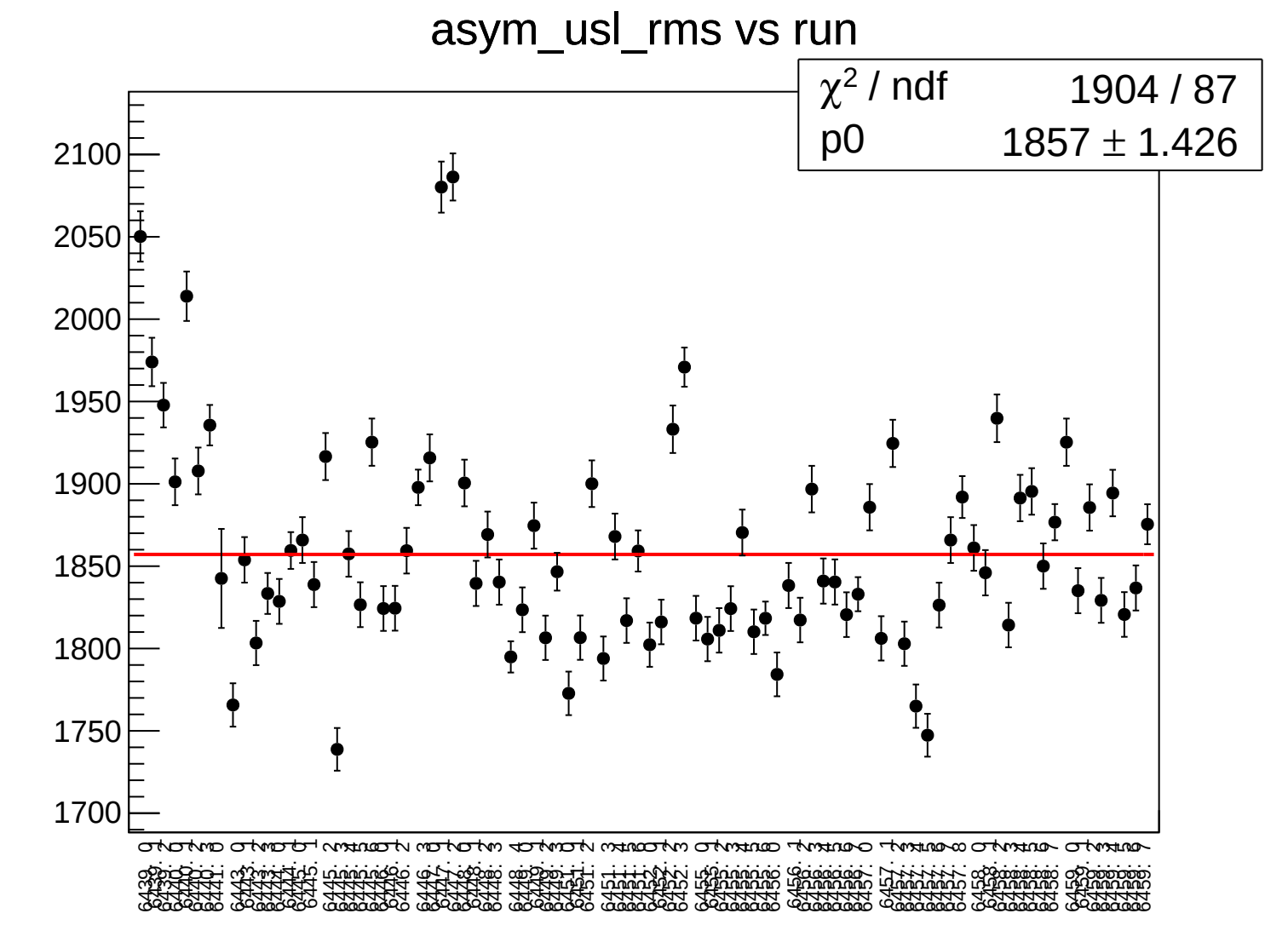

asym_usl_correction_mean vs run
×10^3
χ² / ndf 67.91 / 87
p0 −3677 ± 1603
pull
Entries 88
Mean 1822
Std Dev 1760

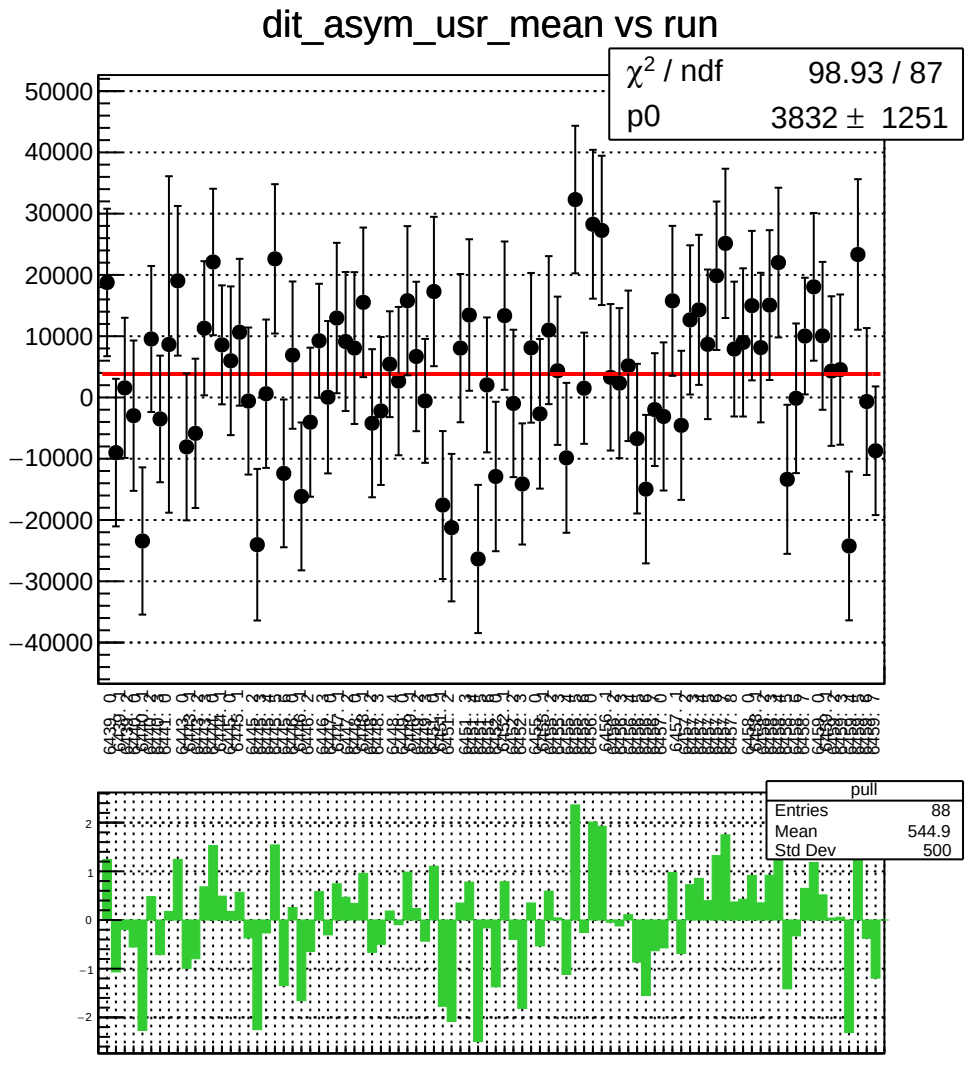

pull1D
Entries 88
Mean 0.001178
Std Dev 0.8785

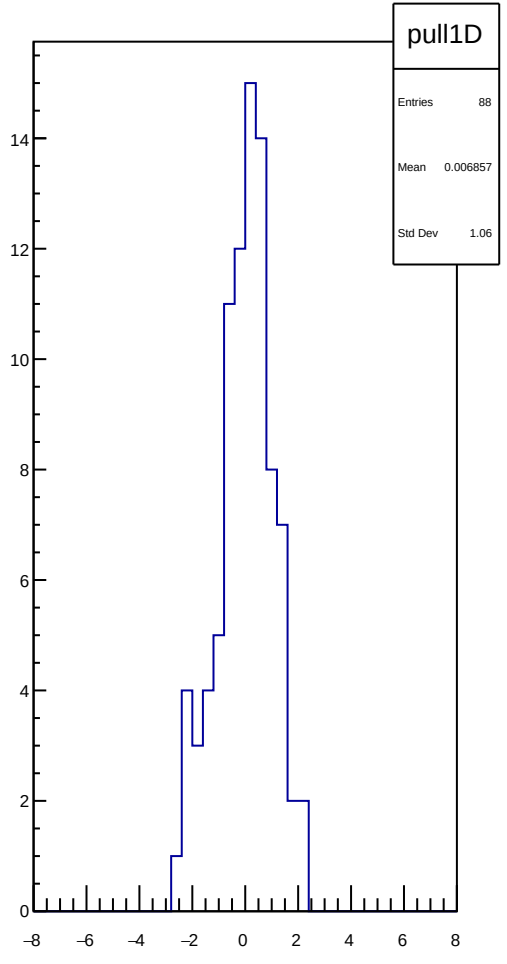

asym_usl_correction_rms vs run
χ² / ndf 2932 / 87
p0 1476 ± 1.134
1700
1650
1600
1550
1500
1450
1400
1350
1300

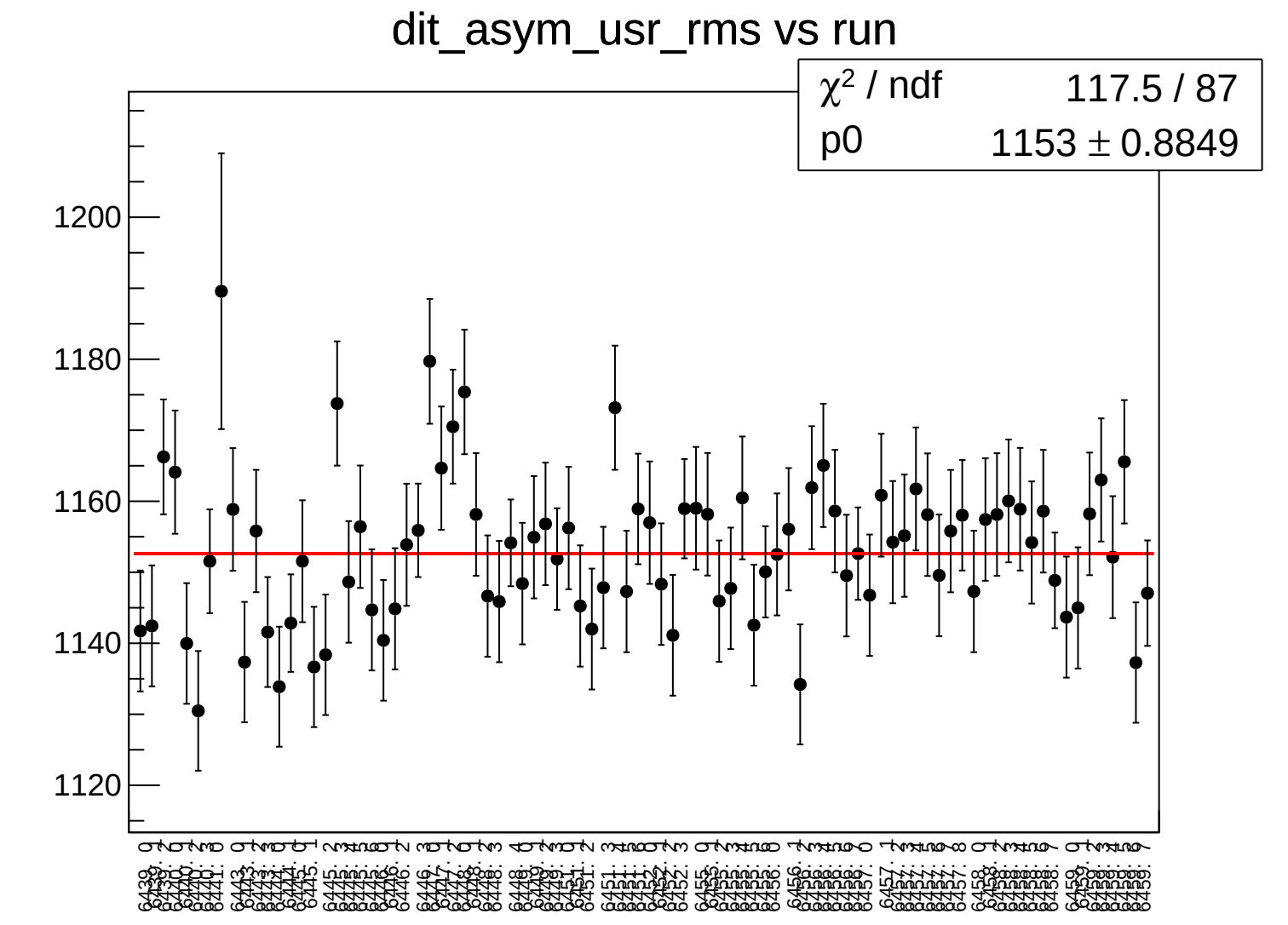

asym_usl_mean vs run
×10^3
χ^2 / ndf 81.75 / 87
p0 5388 ± 2017
pull
Entries 88
Mean −108.1
Std Dev 328.8

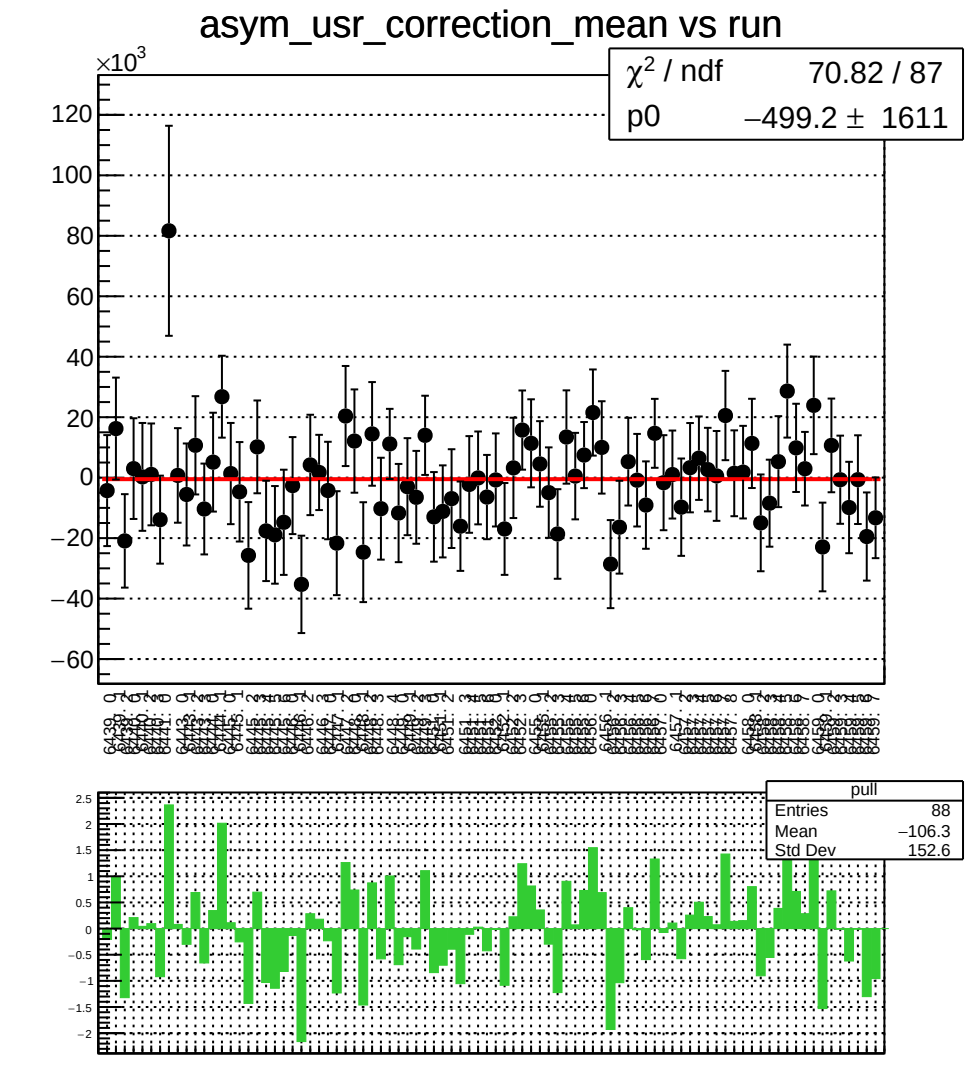

pull1D
Entries 88
Mean 0.001122
Std Dev 0.9639

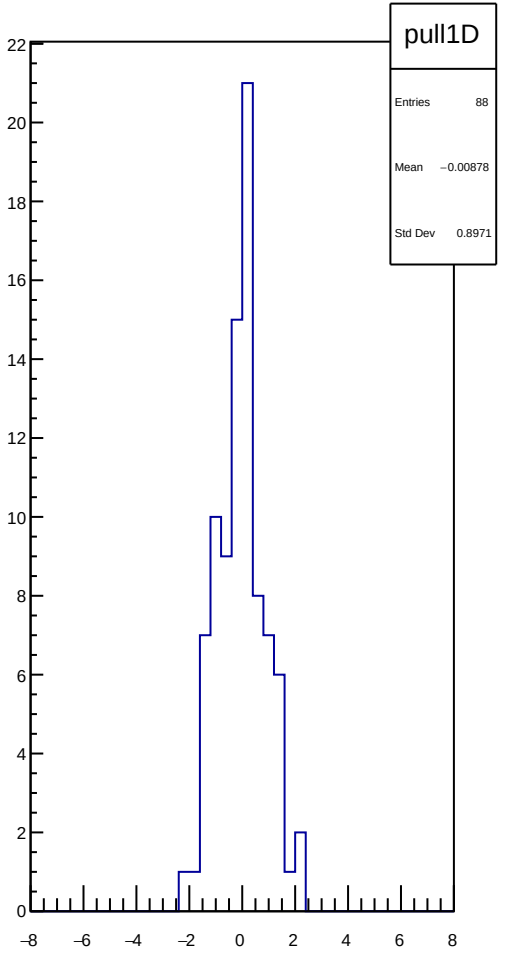

asym_usl_rms vs run
χ² / ndf 1904 / 87
p0 1857 ± 1.426
2100
2050
2000
1950
1900
1850
1800
1750
1700

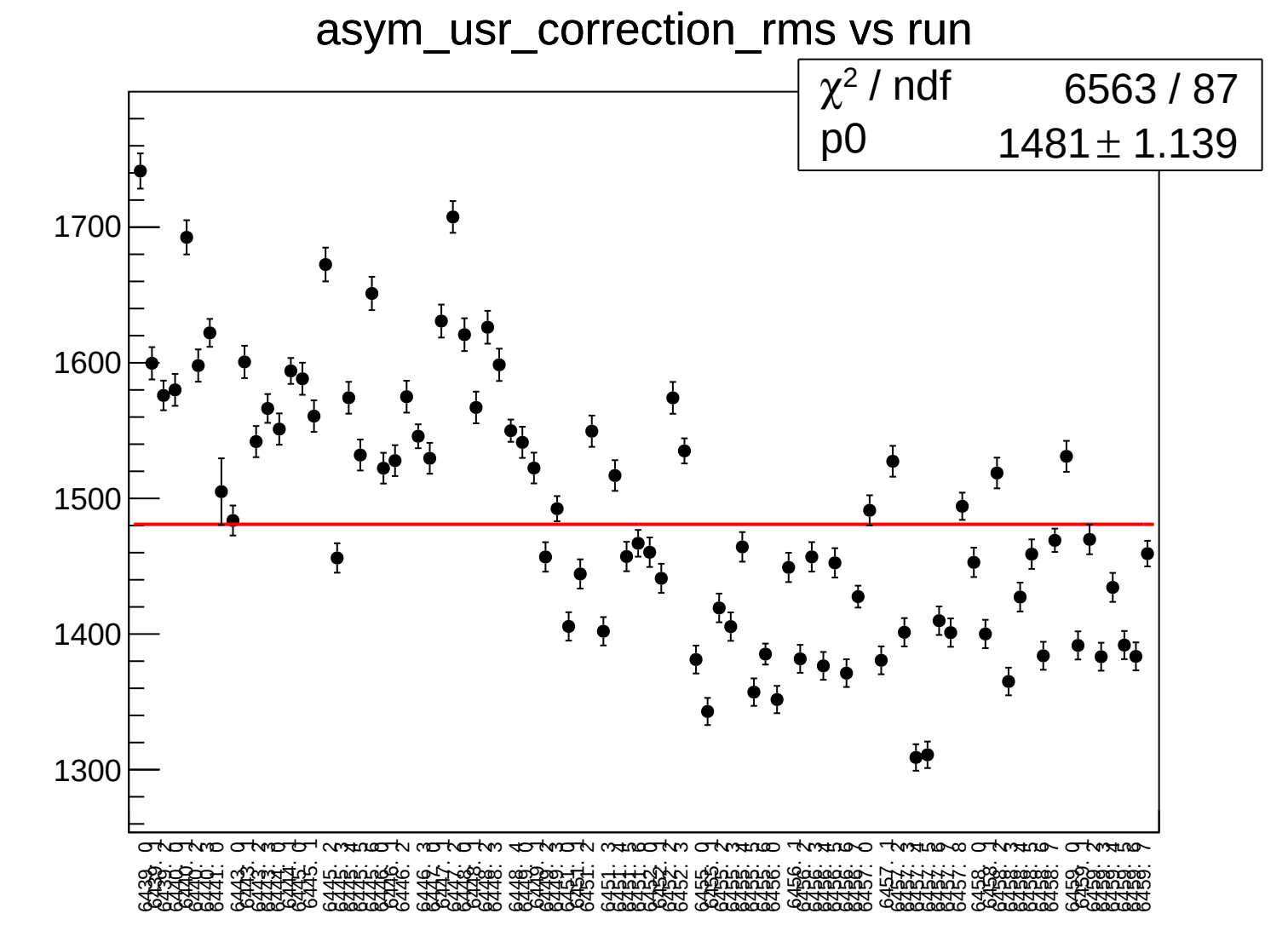

dit_asym_usr_mean vs run
χ² / ndf 98.93 / 87
p0 3832 ± 1251
pull
Entries 88
Mean 544.9
Std Dev 500

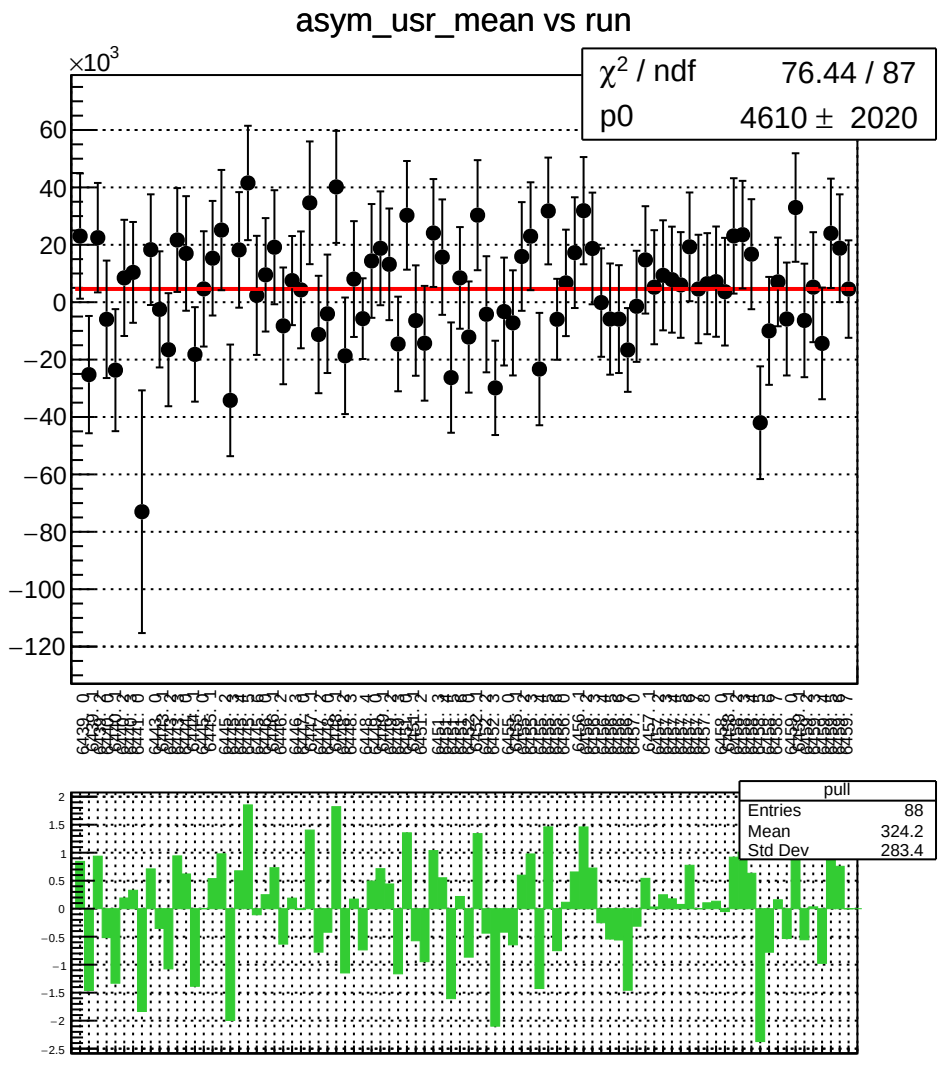

pull1D
Entries 88
Mean 0.006857
Std Dev 1.06

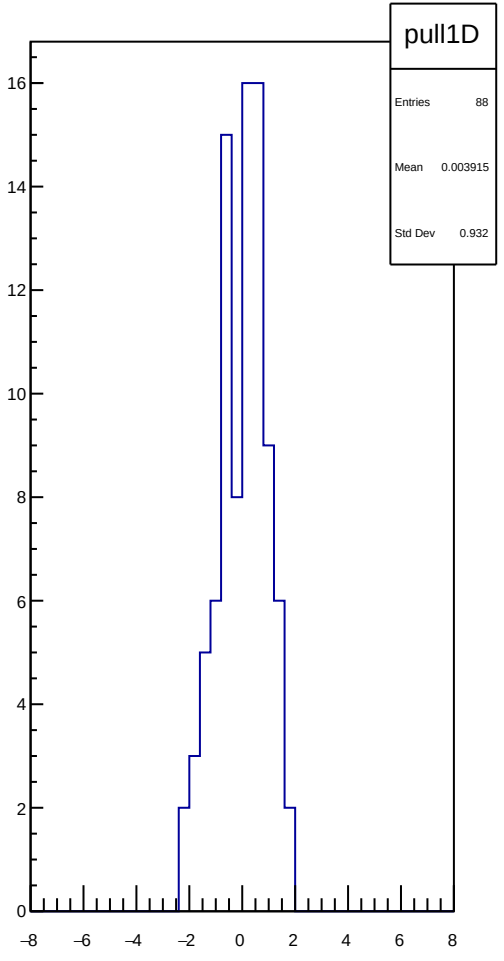

dit_asym_usr_rms vs run
χ^2 / ndf 117.5 / 87
p0 1153 ± 0.8849
1200
1180
1160
1140
1120

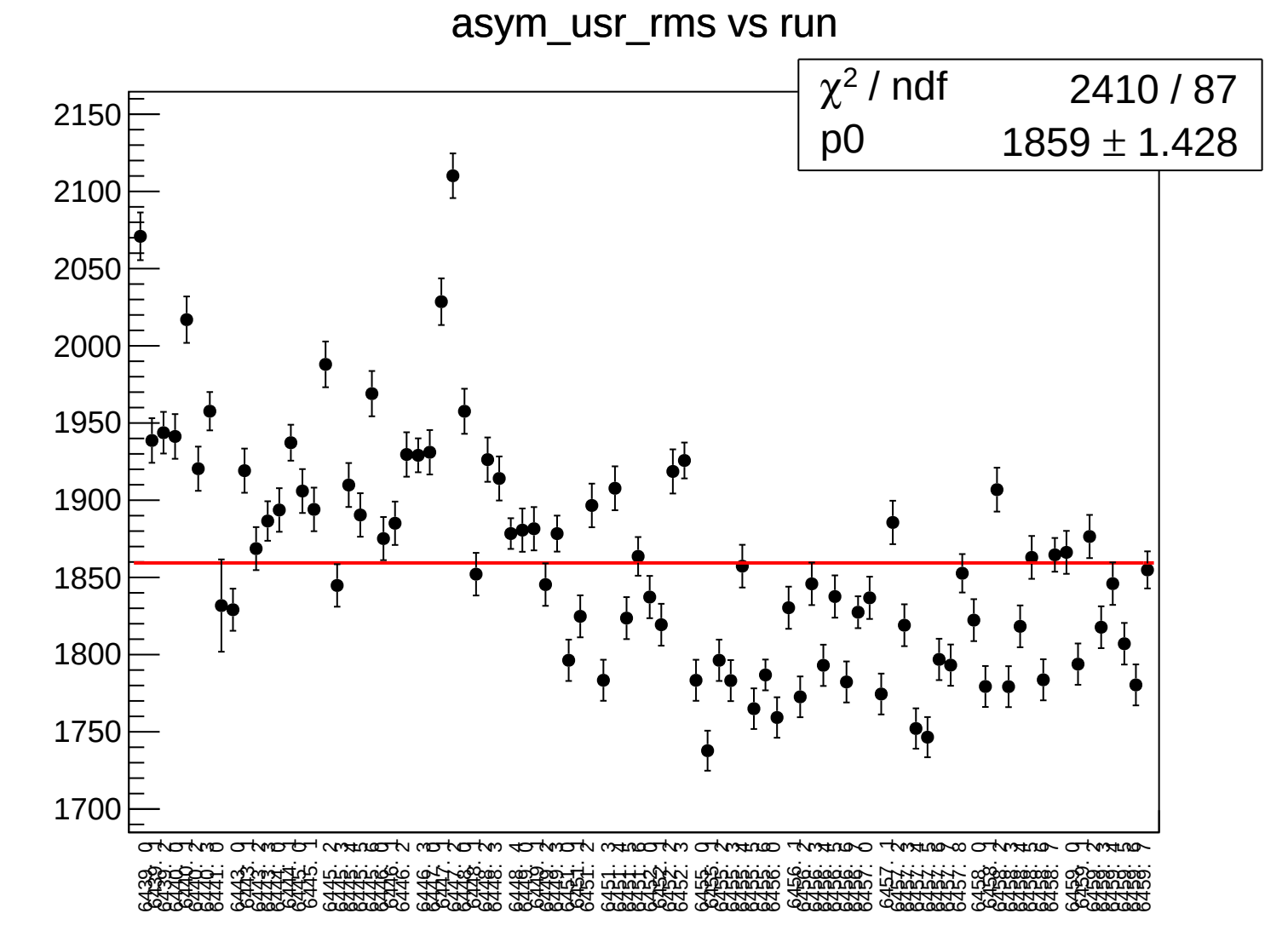

asym_usr_correction_mean vs run
×10^3
χ² / ndf 70.82 / 87
p0 −499.2 ± 1611
pull
Entries 88
Mean −106.3
Std Dev 152.6

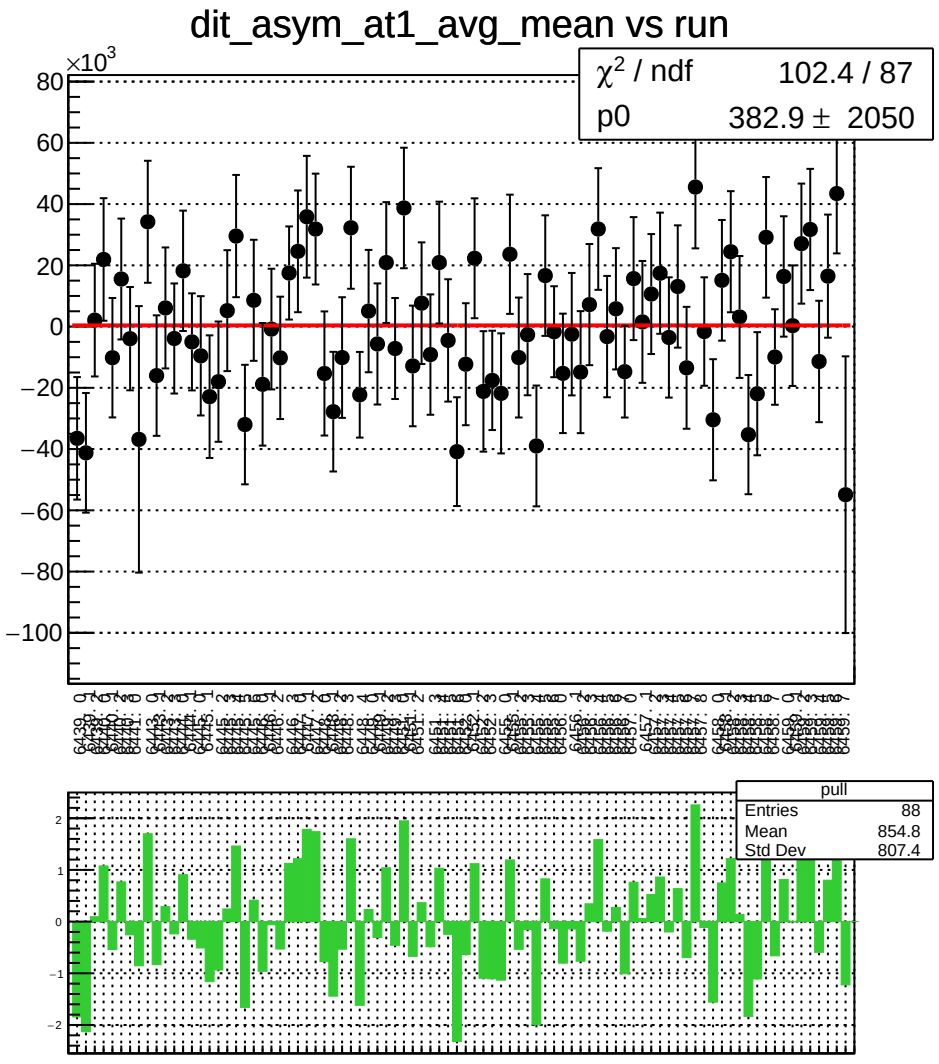

pull1D
Entries 88
Mean −0.00878
Std Dev 0.8971

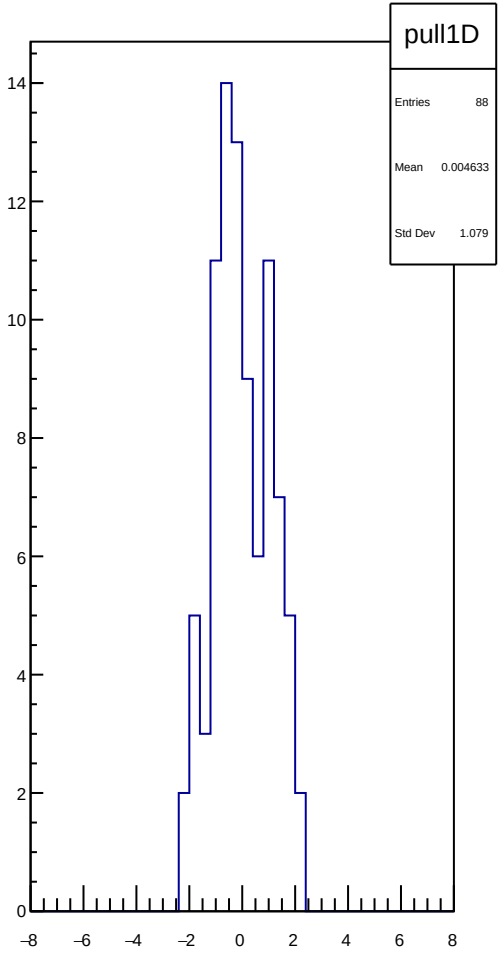

asym_usr_correction_rms vs run
χ² / ndf 6563 / 87
p0 1481 ± 1.139
1700
1600
1500
1400
1300

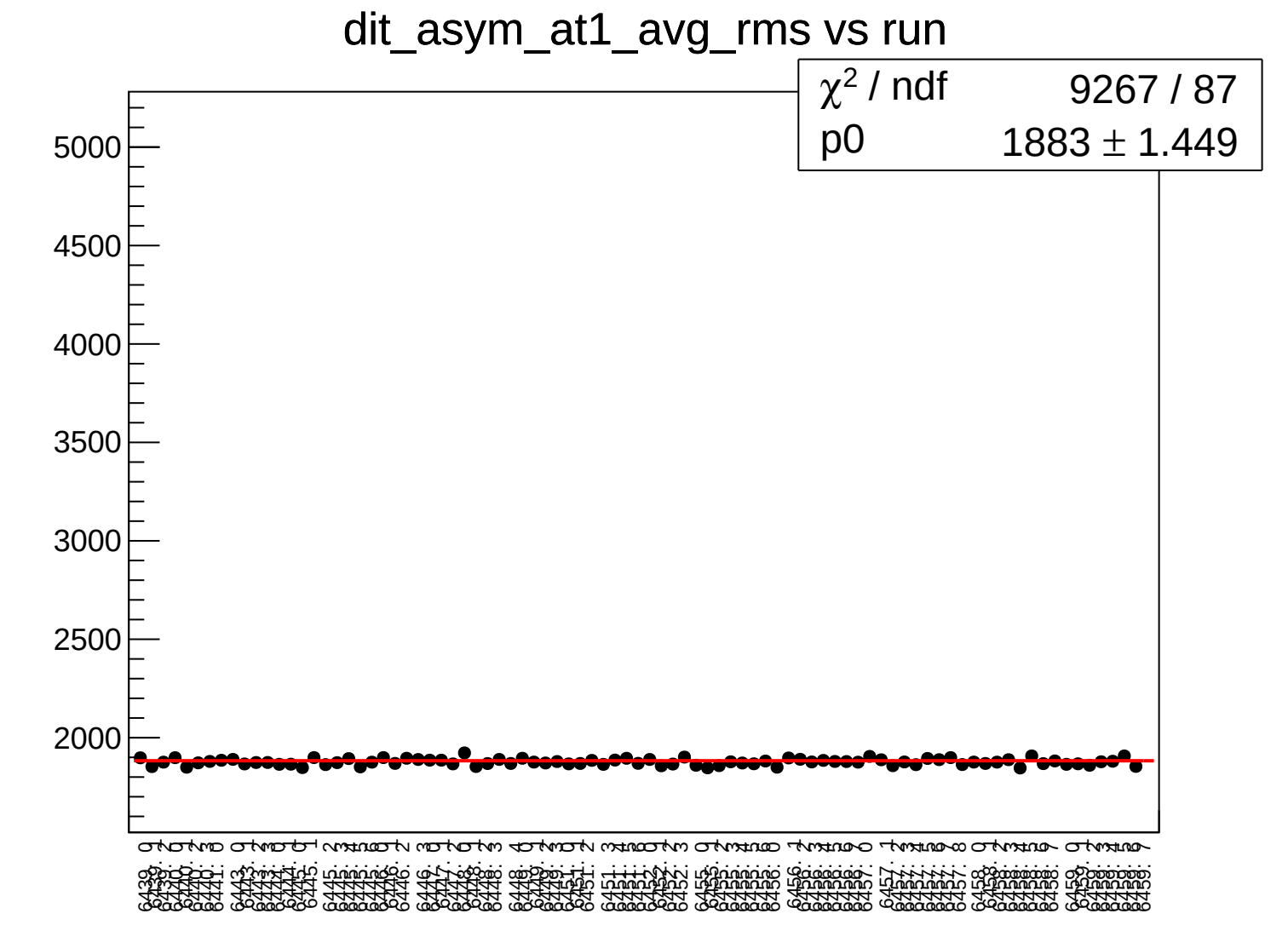

asym_usr_mean vs run
×10^3
χ^2 / ndf 76.44 / 87
p0 4610 ± 2020
pull
Entries 88
Mean 324.2
Std Dev 283.4

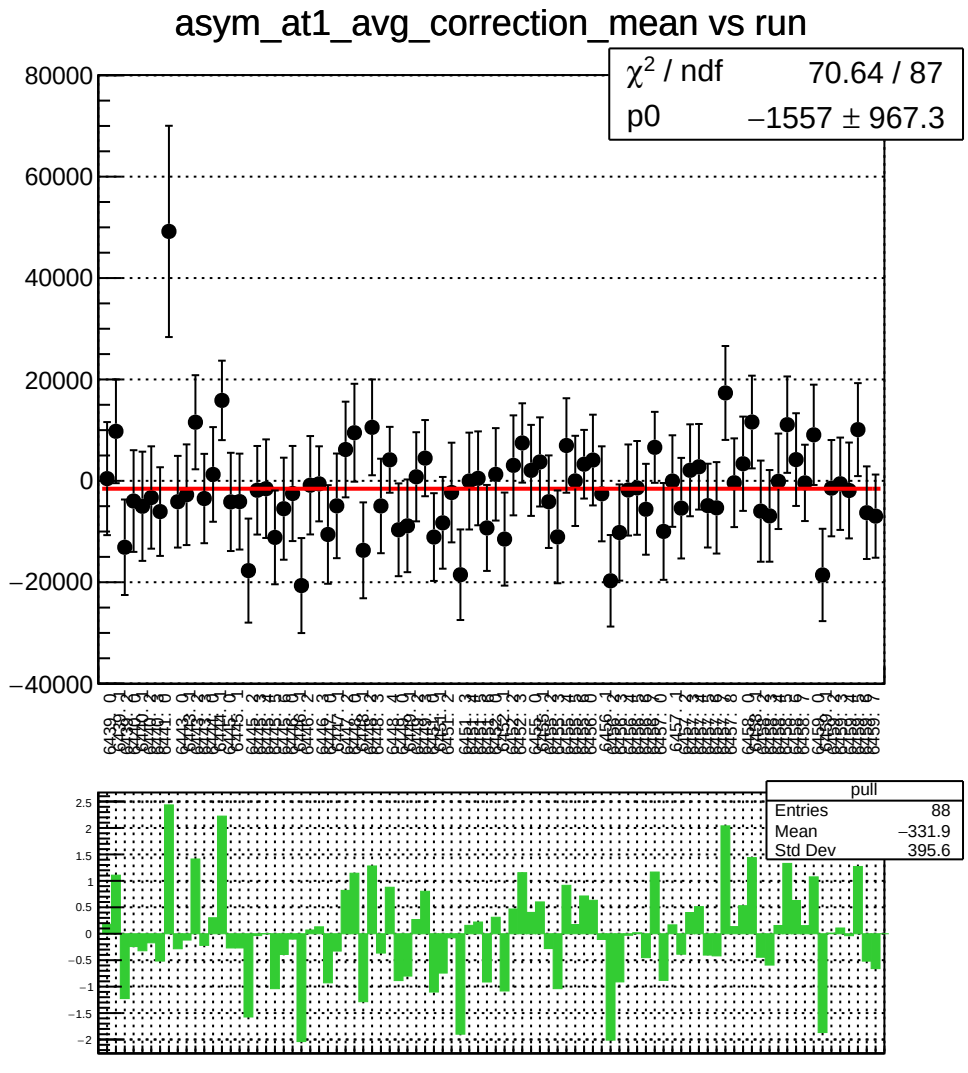

pull1D
Entries 88
Mean 0.003915
Std Dev 0.932

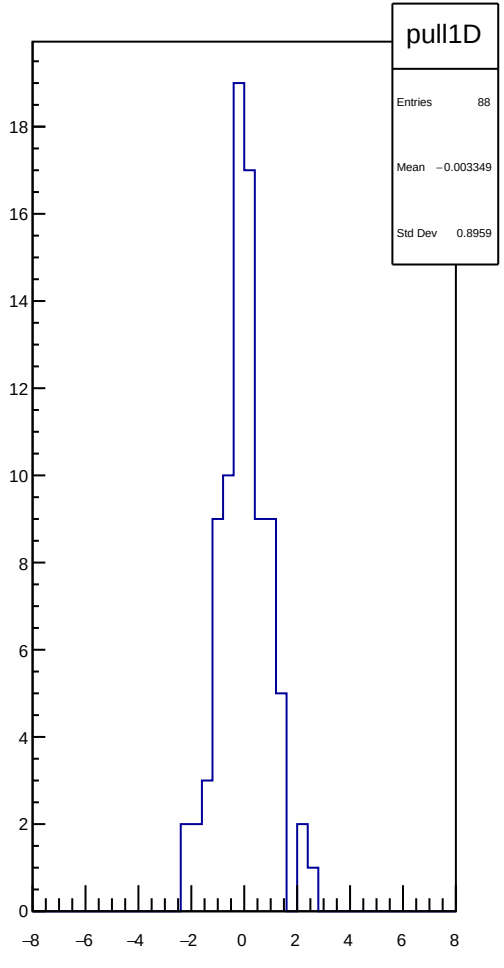

asym_usr_rms vs run
χ² / ndf 2410 / 87
p0 1859 ± 1.428
2150
2100
2050
2000
1950
1900
1850
1800
1750
1700

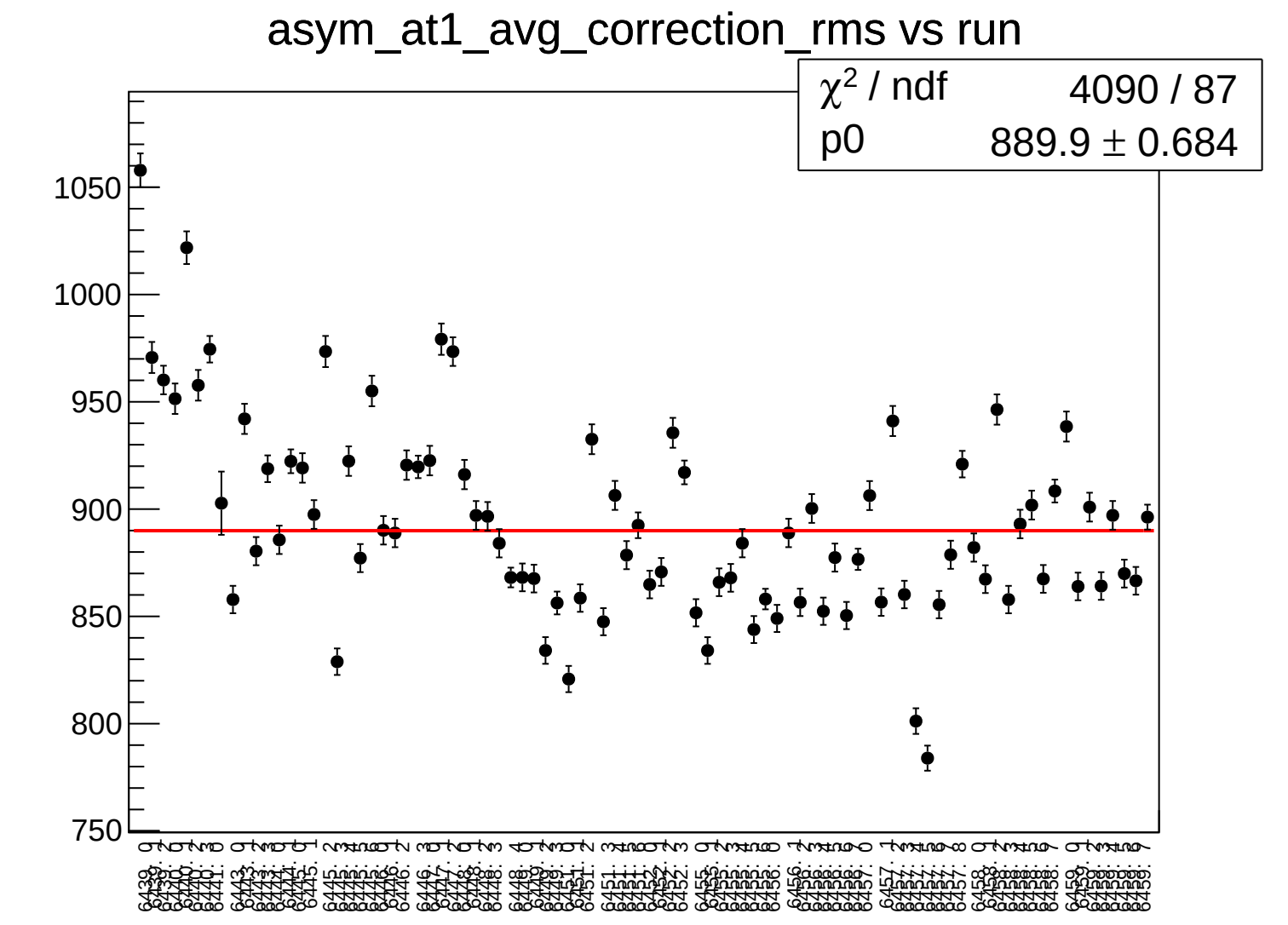

dit_asym_at1_avg_mean vs run
χ² / ndf 102.4 / 87
p0 382.9 ± 2050
×10³
pull
Entries 88
Mean 854.8
Std Dev 807.4

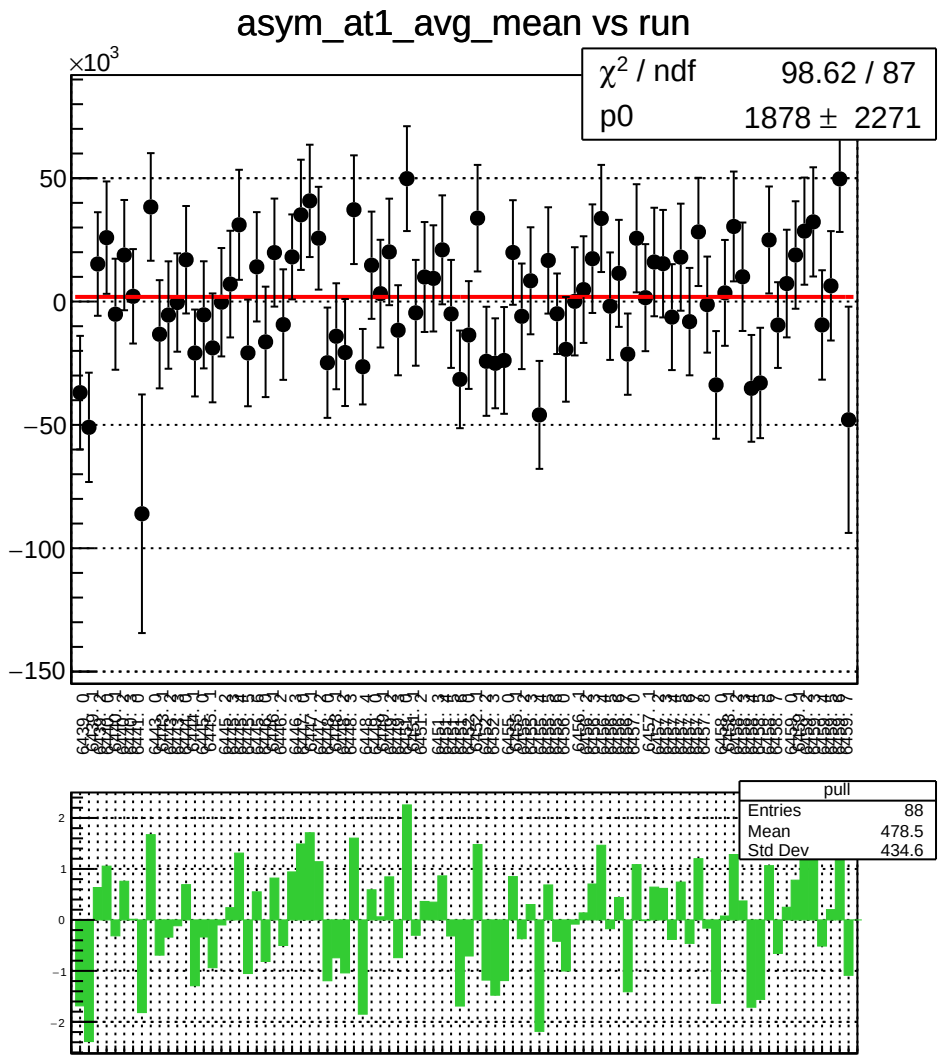

pull1D
Entries 88
Mean 0.004633
Std Dev 1.079

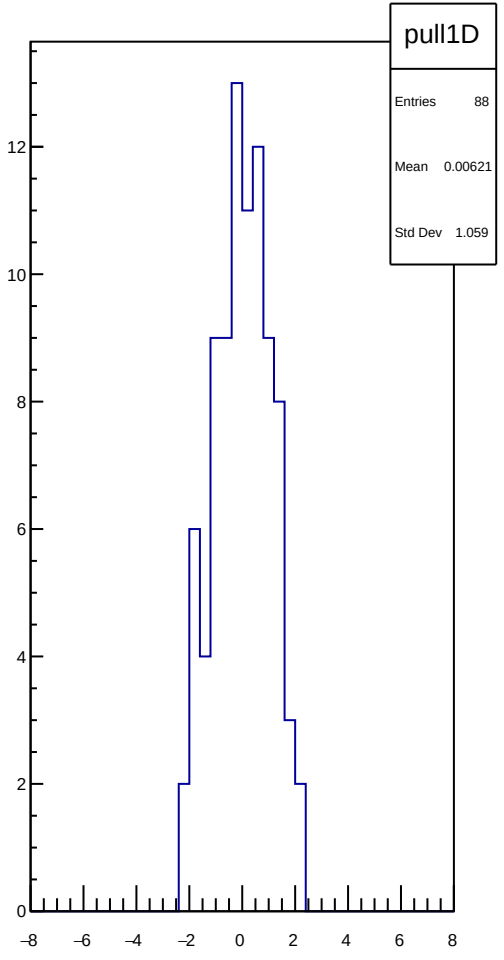

dit_asym_at1_avg_rms vs run
χ^2 / ndf 9267 / 87
p0 1883 ± 1.449
5000
4500
4000
3500
3000
2500
2000

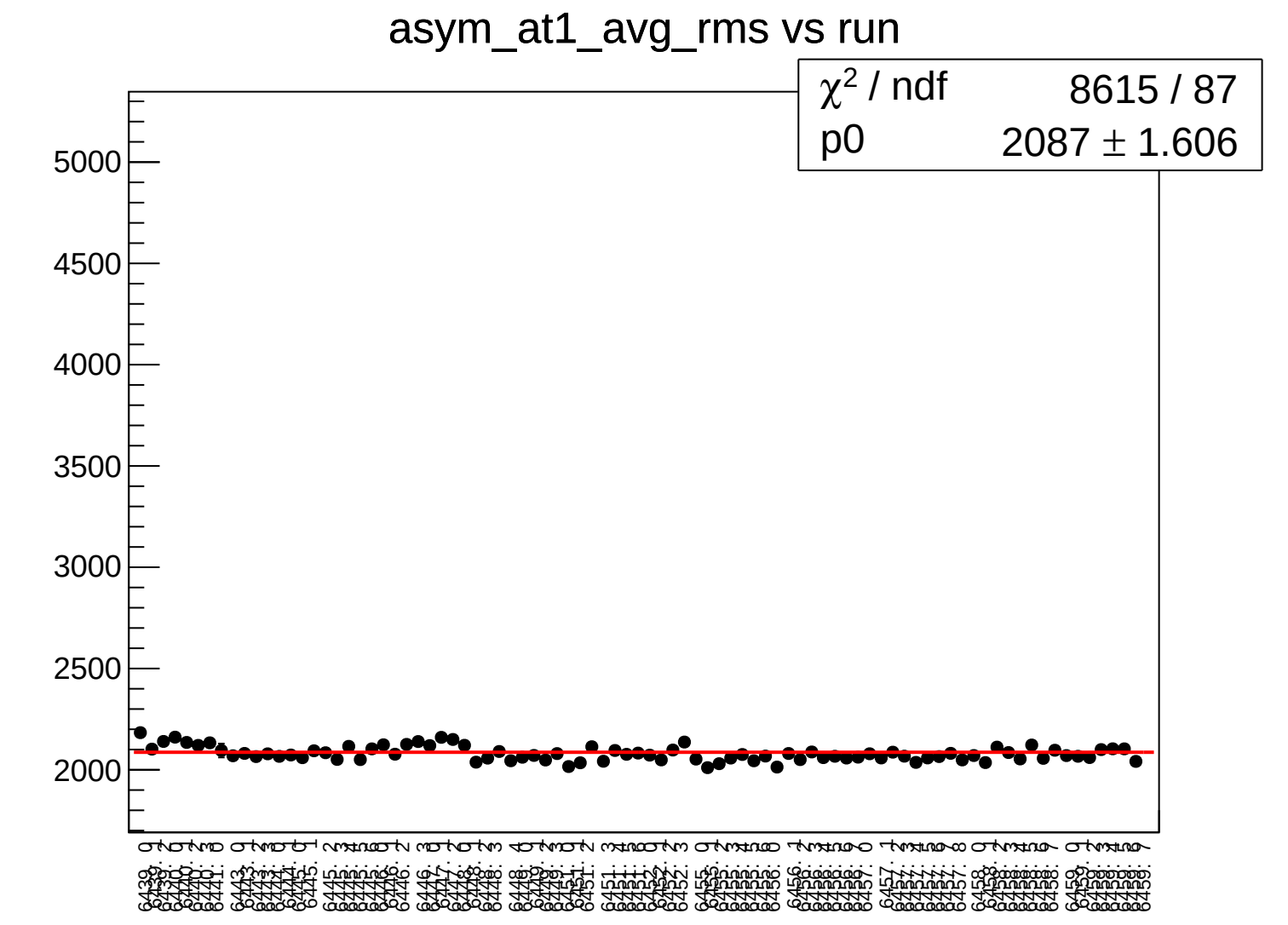

asym_at1_avg_correction_mean vs run
χ² / ndf 70.64 / 87
p0 −1557 ± 967.3
pull
Entries 88
Mean −331.9
Std Dev 395.6

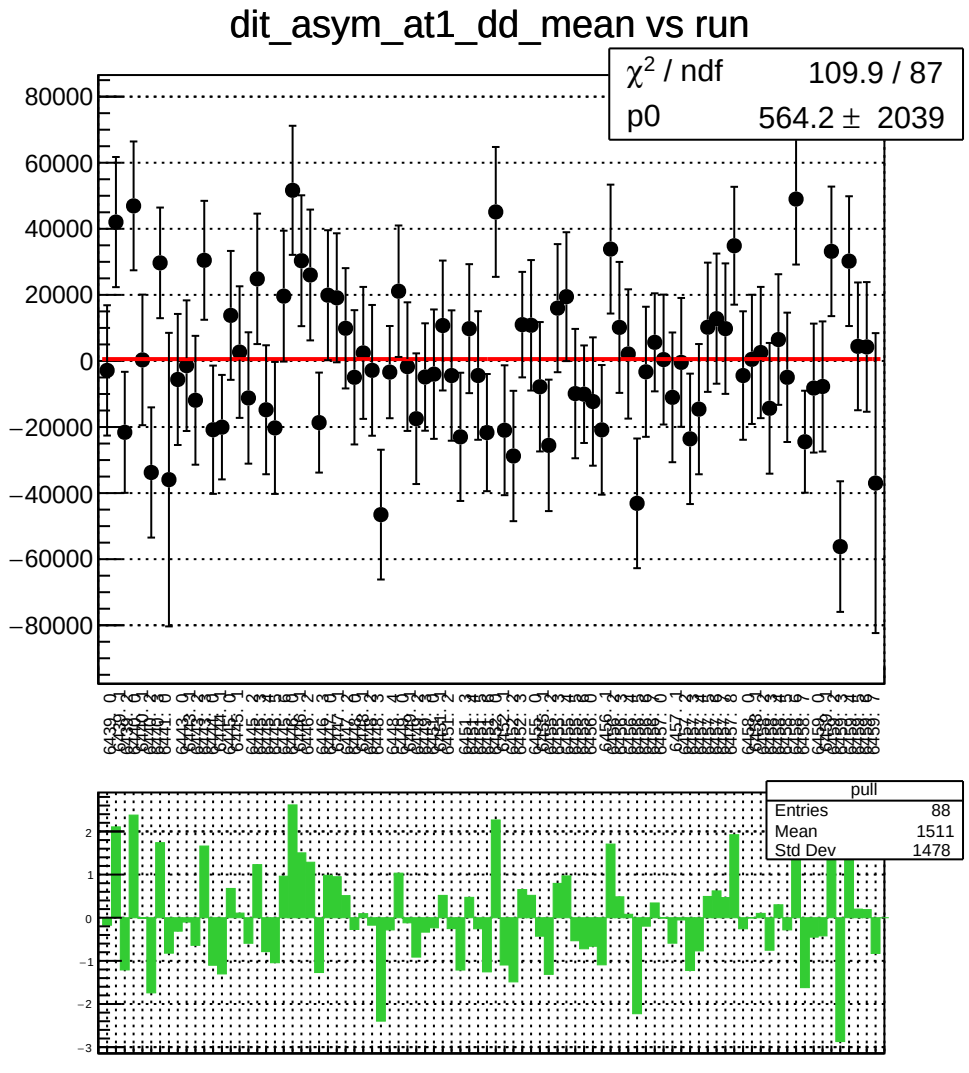

pull1D
Entries 88
Mean −0.003349
Std Dev 0.8959

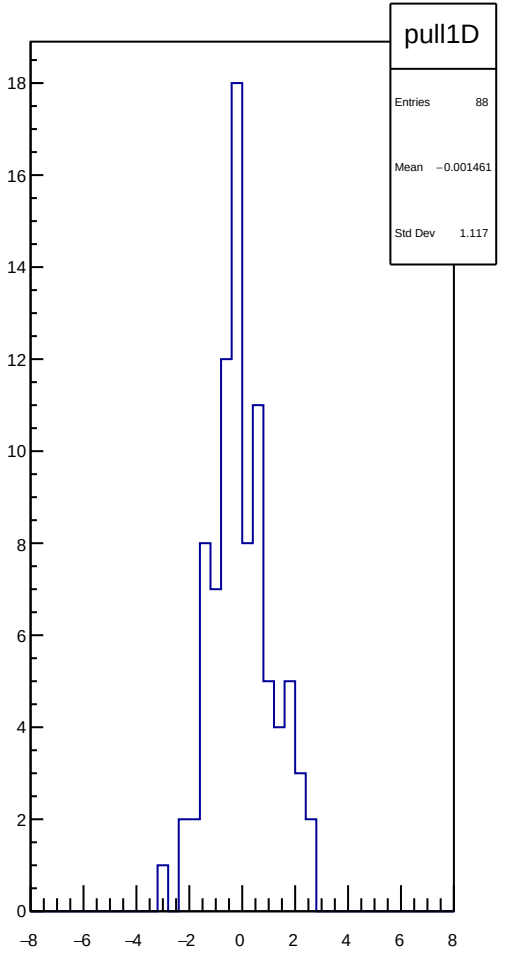

asym_at1_avg_correction_rms vs run
χ² / ndf 4090 / 87
p0 889.9 ± 0.684
1050
1000
950
900
850
800
750

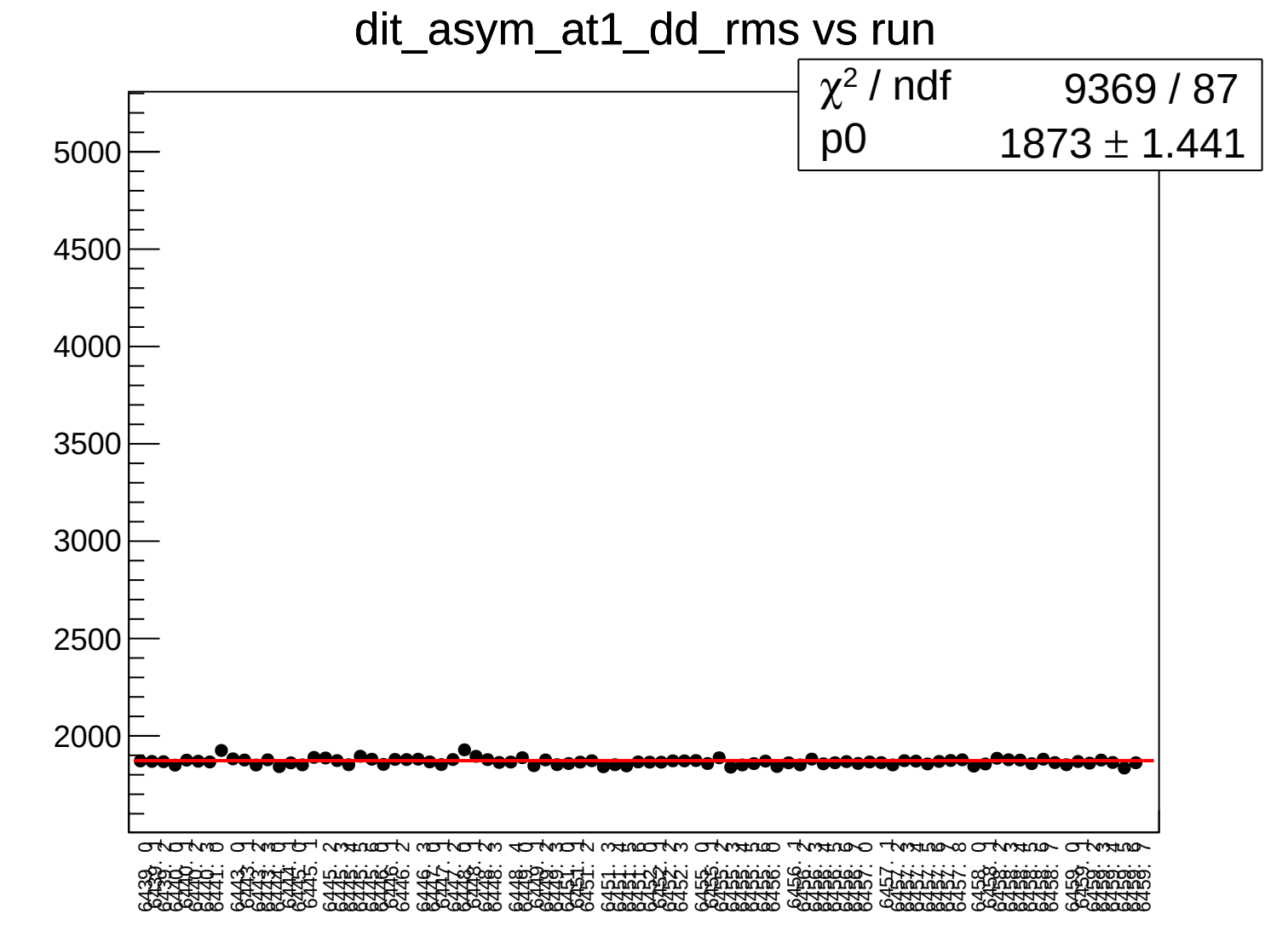

asym_at1_avg_mean vs run
×10^3
χ² / ndf 98.62 / 87
p0 1878 ± 2271
50
0
−50
−100
−150
pull
Entries 88
Mean 478.5
Std Dev 434.6
2
1
0
−1
−2

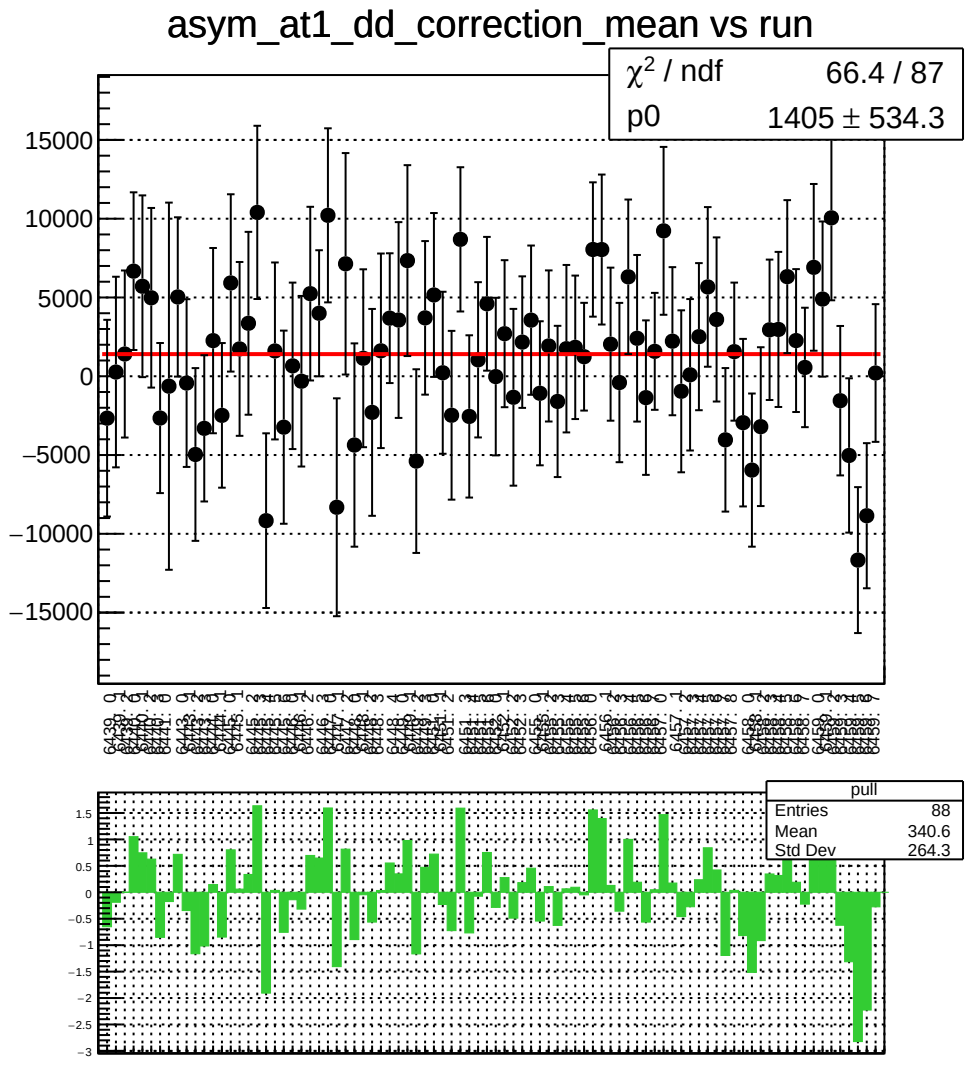

pull1D
Entries 88
Mean 0.00621
Std Dev 1.059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

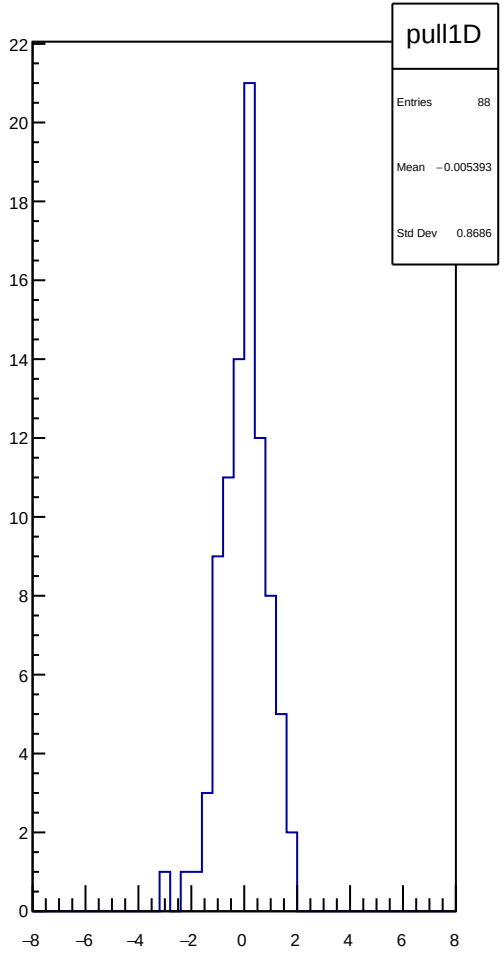

asym_at1_avg_rms vs run
χ^2 / ndf 8615 / 87
p0 2087 ± 1.606
5000
4500
4000
3500
3000
2500
2000

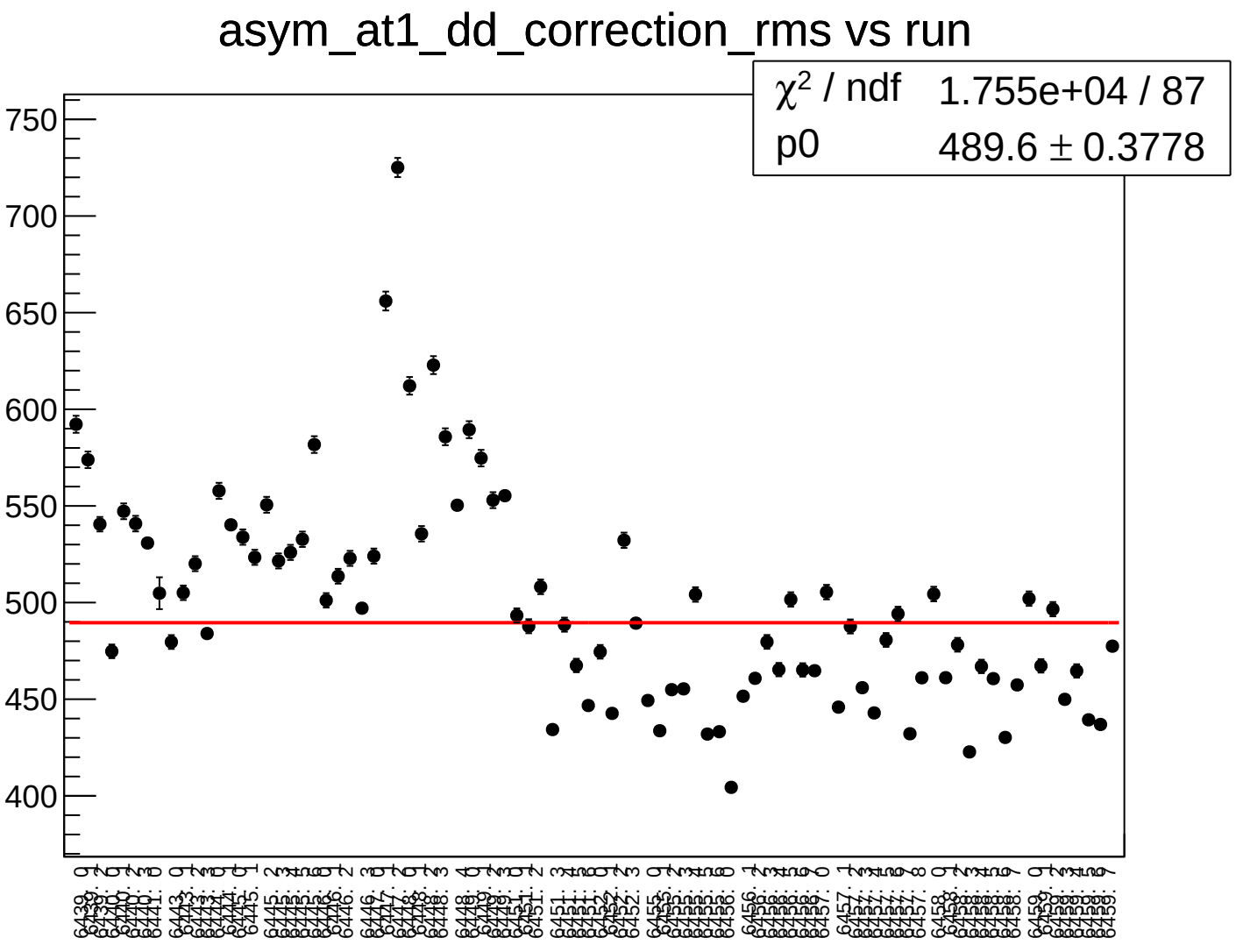

dit_asym_at1_dd_mean vs run
χ² / ndf 109.9 / 87
p0 564.2 ± 2039
pull
Entries 88
Mean 1511
Std Dev 1478

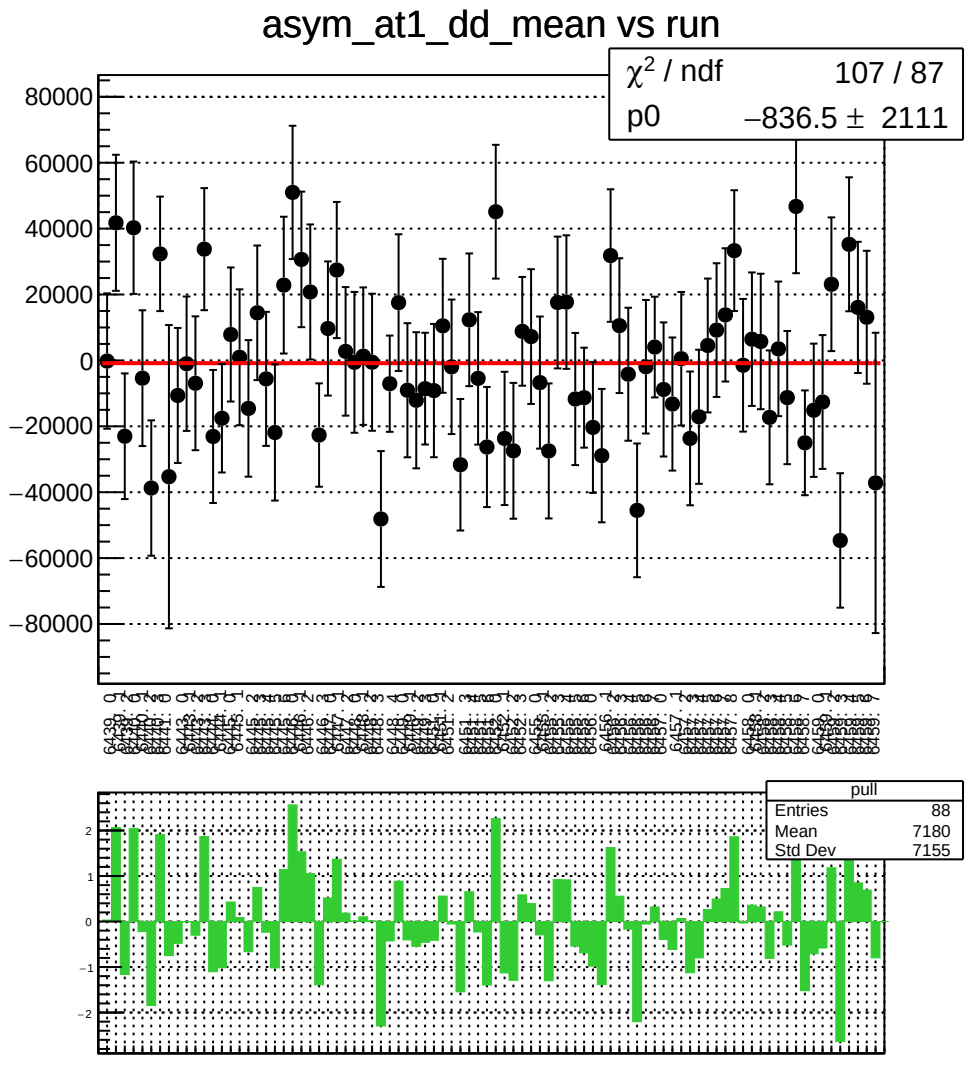

pull1D
Entries 88
Mean −0.001461
Std Dev 1.117

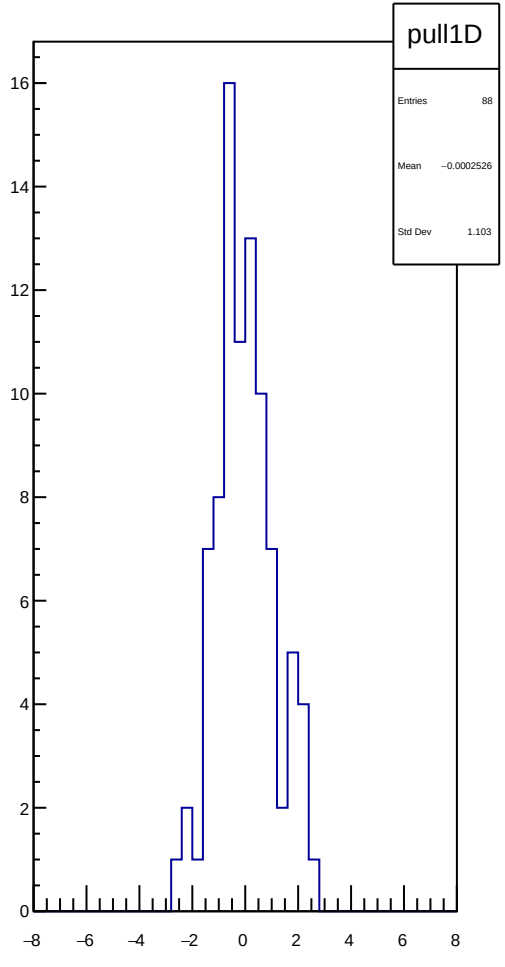

dit_asym_at1_dd_rms vs run
χ^2 / ndf 9369 / 87
p0 1873 ± 1.441
5000
4500
4000
3500
3000
2500
2000

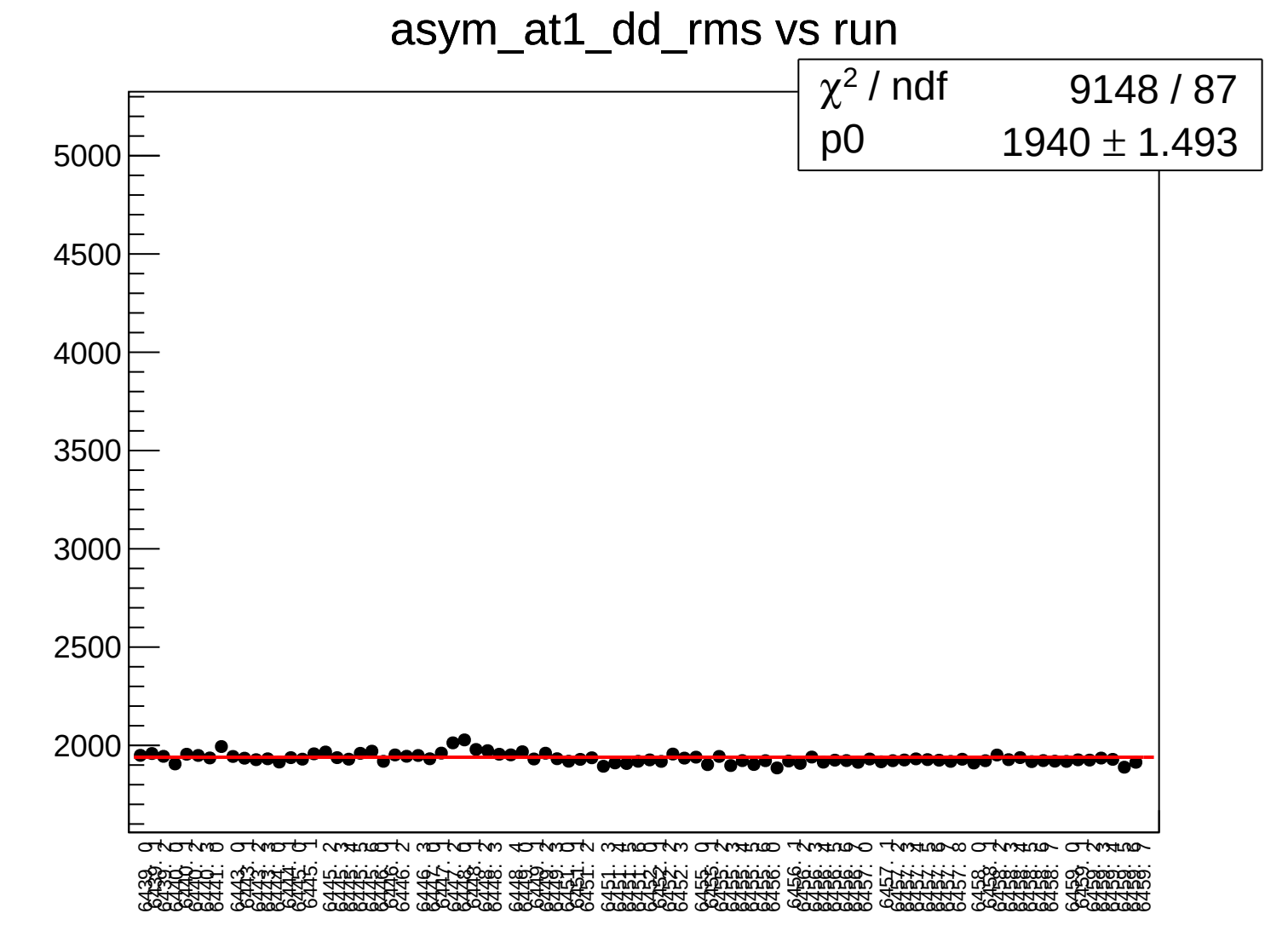

asym_at1_dd_correction_mean vs run
χ² / ndf 66.4 / 87
p0 1405 ± 534.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 340.6
Std Dev 264.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

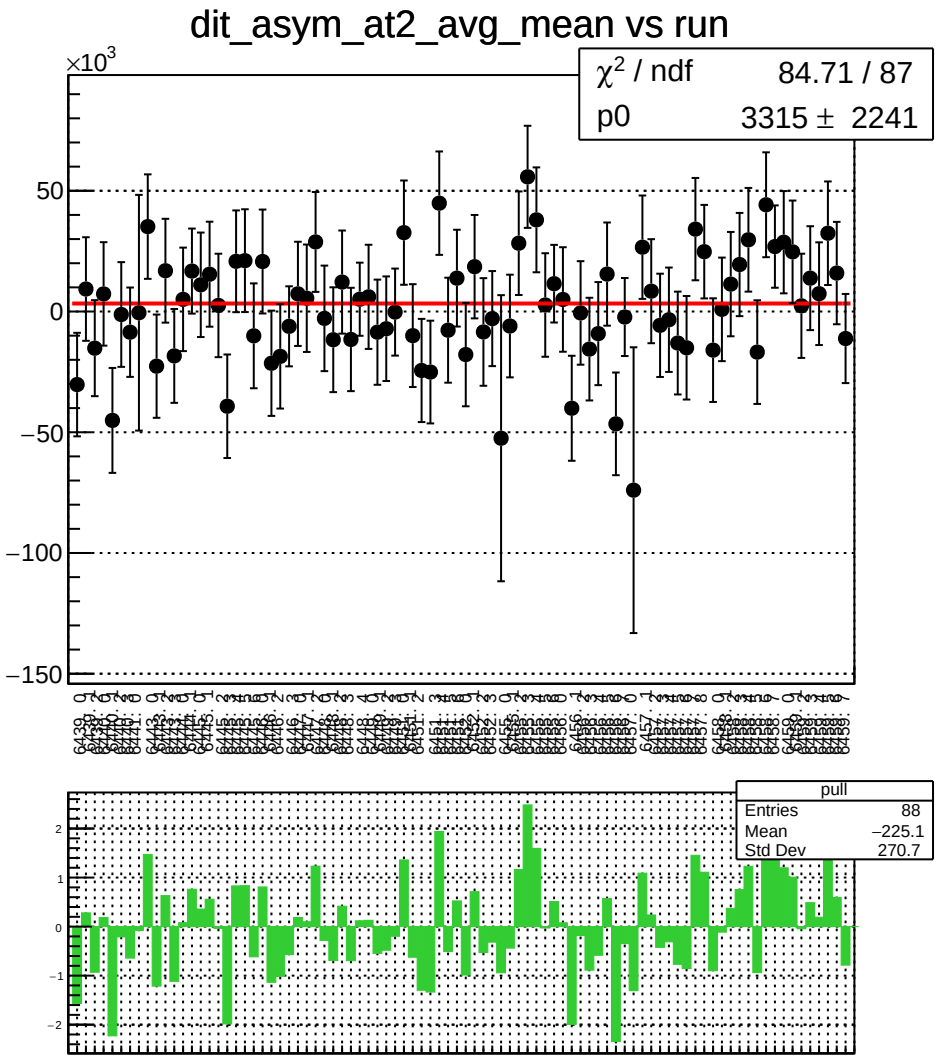

pull1D
Entries 88
Mean −0.005393
Std Dev 0.8686
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

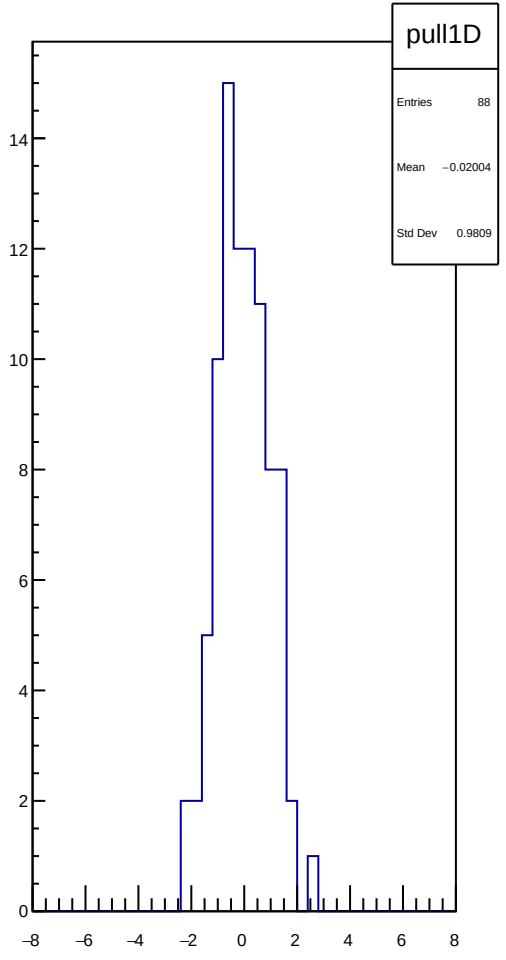

asym_at1_dd_correction_rms vs run
χ² / ndf 1.755e+04 / 87
p0 489.6 ± 0.3778
750
700
650
600
550
500
450
400

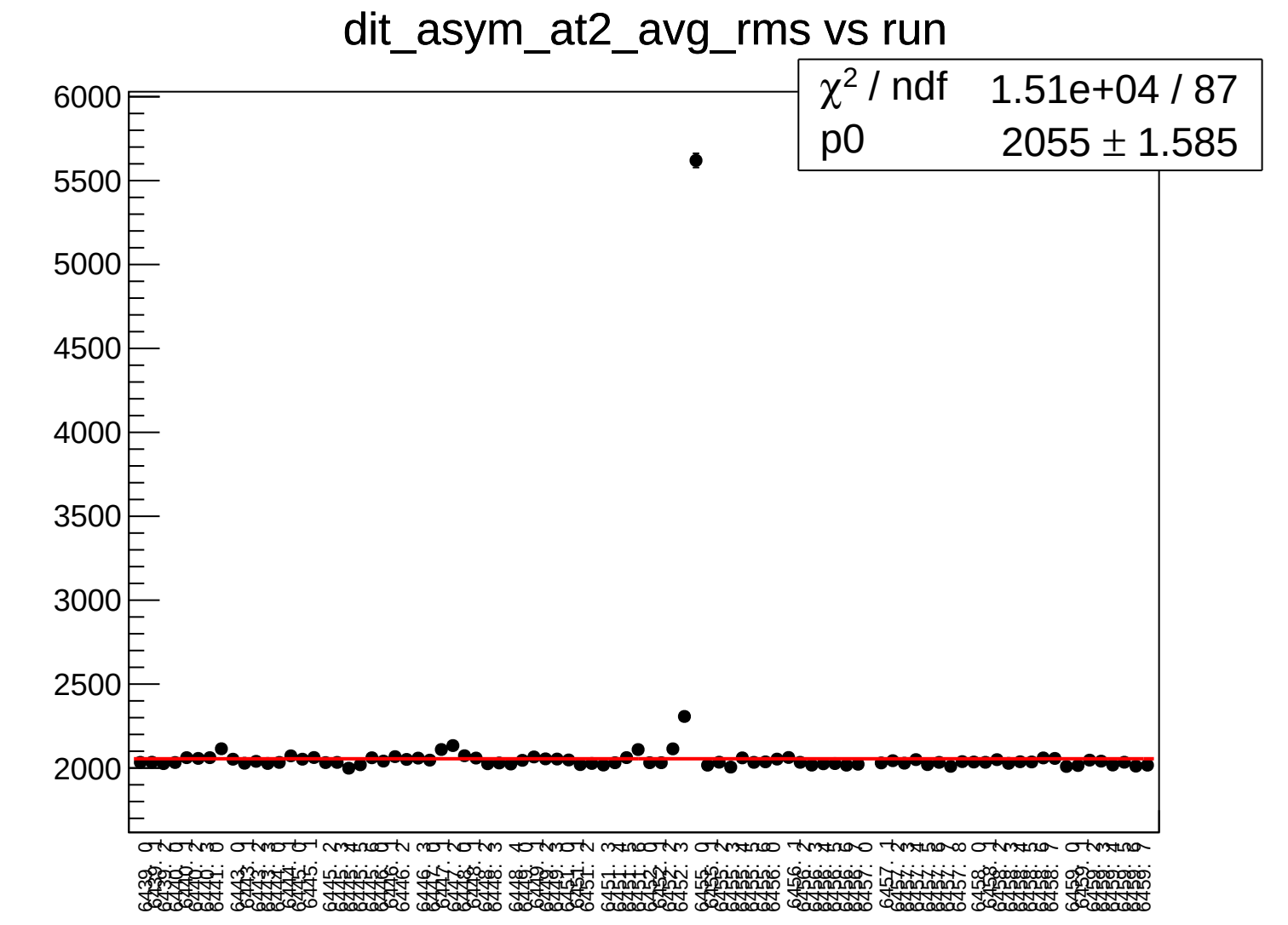

asym_at1_dd_mean vs run
χ² / ndf 107 / 87
p0 −836.5 ± 2111
pull
Entries 88
Mean 7180
Std Dev 7155

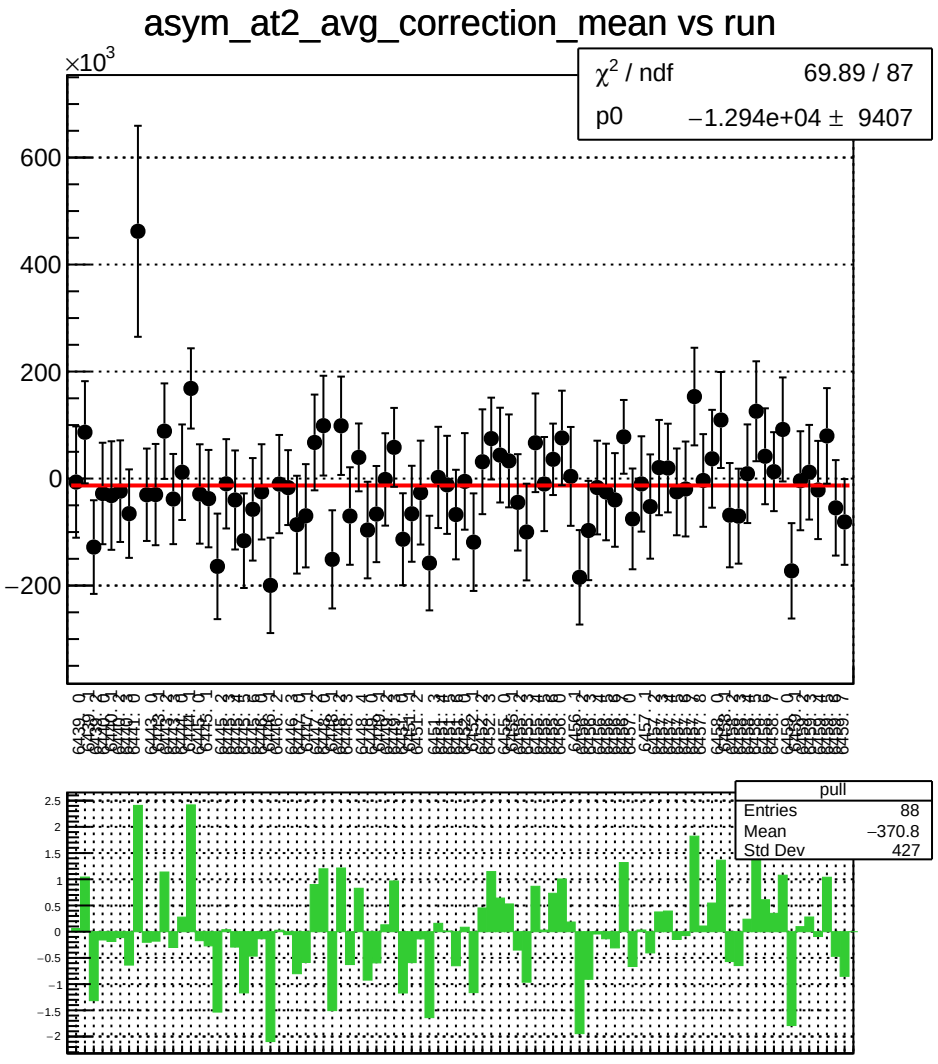

pull1D
Entries 88
Mean −0.0002526
Std Dev 1.103

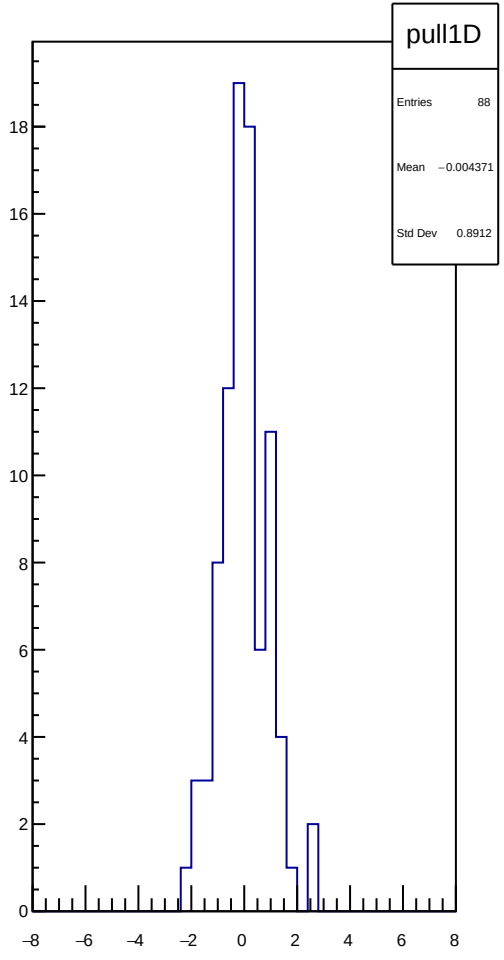

asym_at1_dd_rms vs run
χ^2 / ndf 9148 / 87
p0 1940 ± 1.493
5000
4500
4000
3500
3000
2500
2000

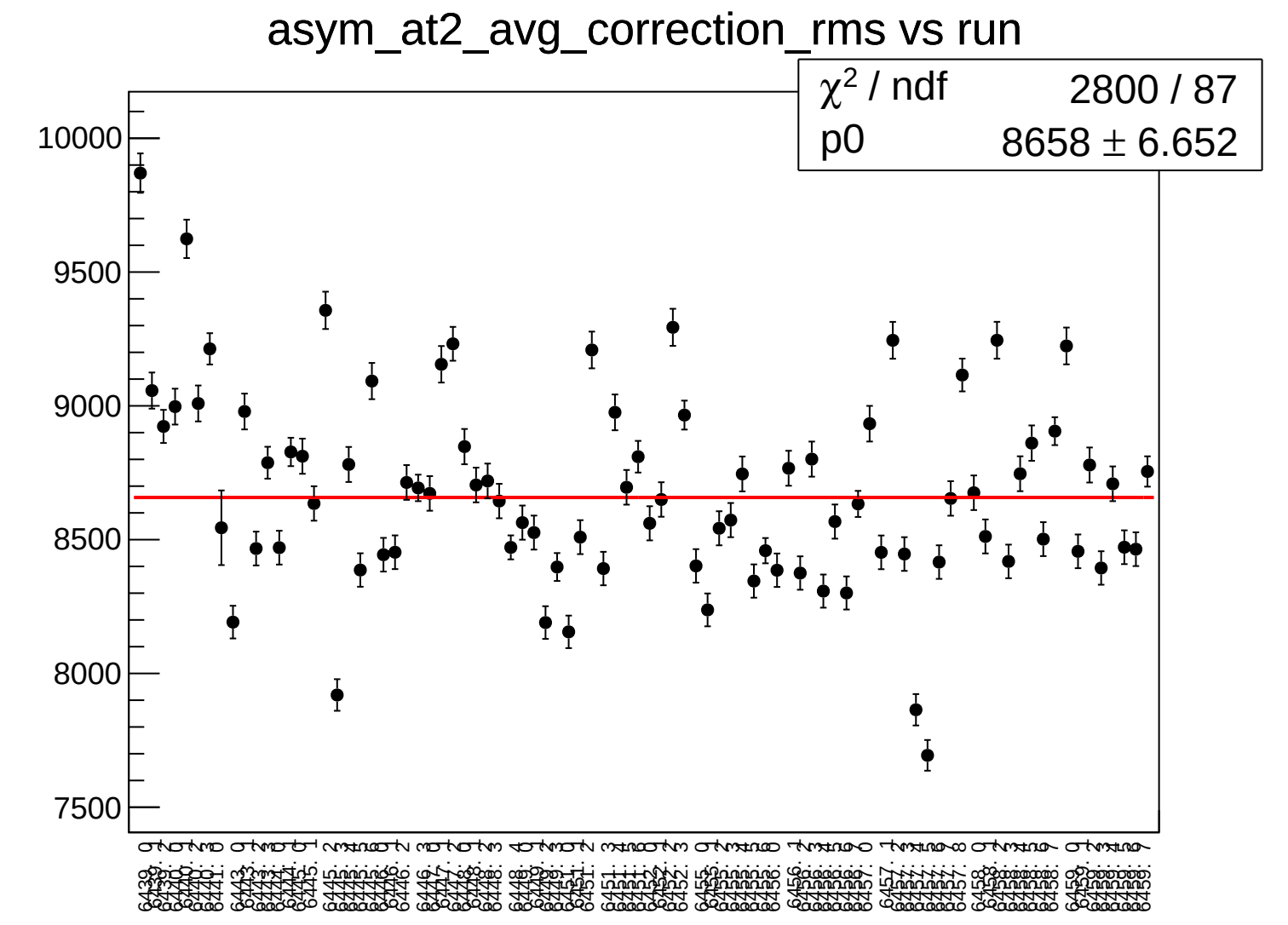

dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 84.71 / 87
p0 3315 ± 2241
50
0
−50
−100
−150
pull
Entries 88
Mean −225.1
Std Dev 270.7
2
1
0
−1
−2

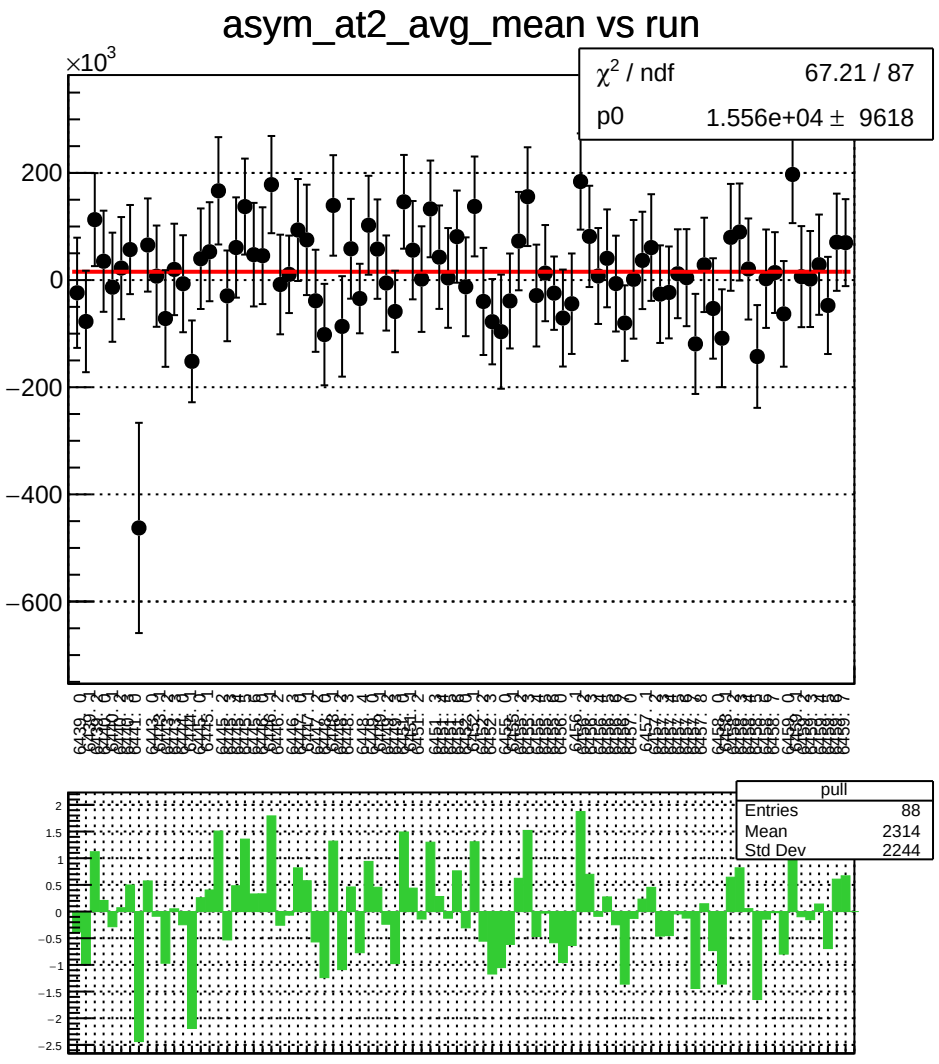

pull1D
Entries 88
Mean −0.02004
Std Dev 0.9809
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

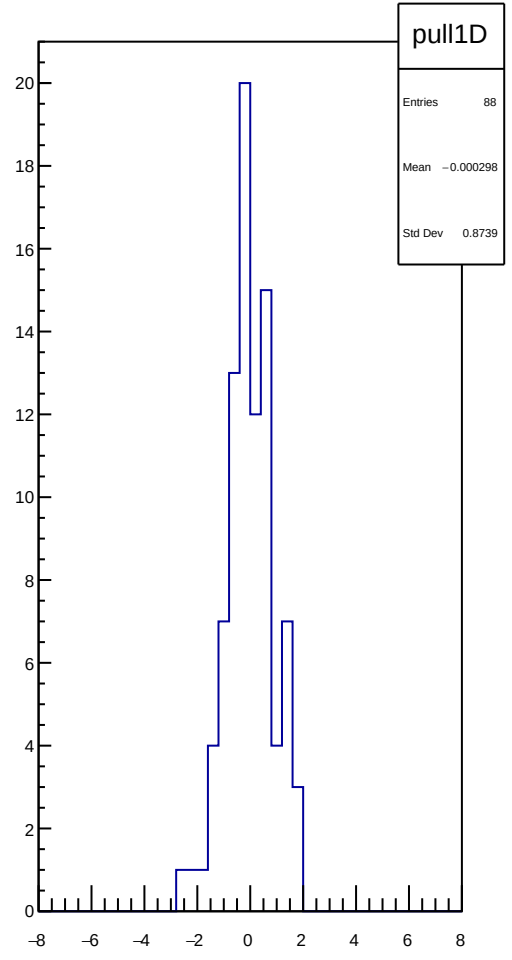

dit_asym_at2_avg_rms vs run
χ^2 / ndf 1.51e+04 / 87
p0 2055 ± 1.585
6000
5500
5000
4500
4000
3500
3000
2500
2000

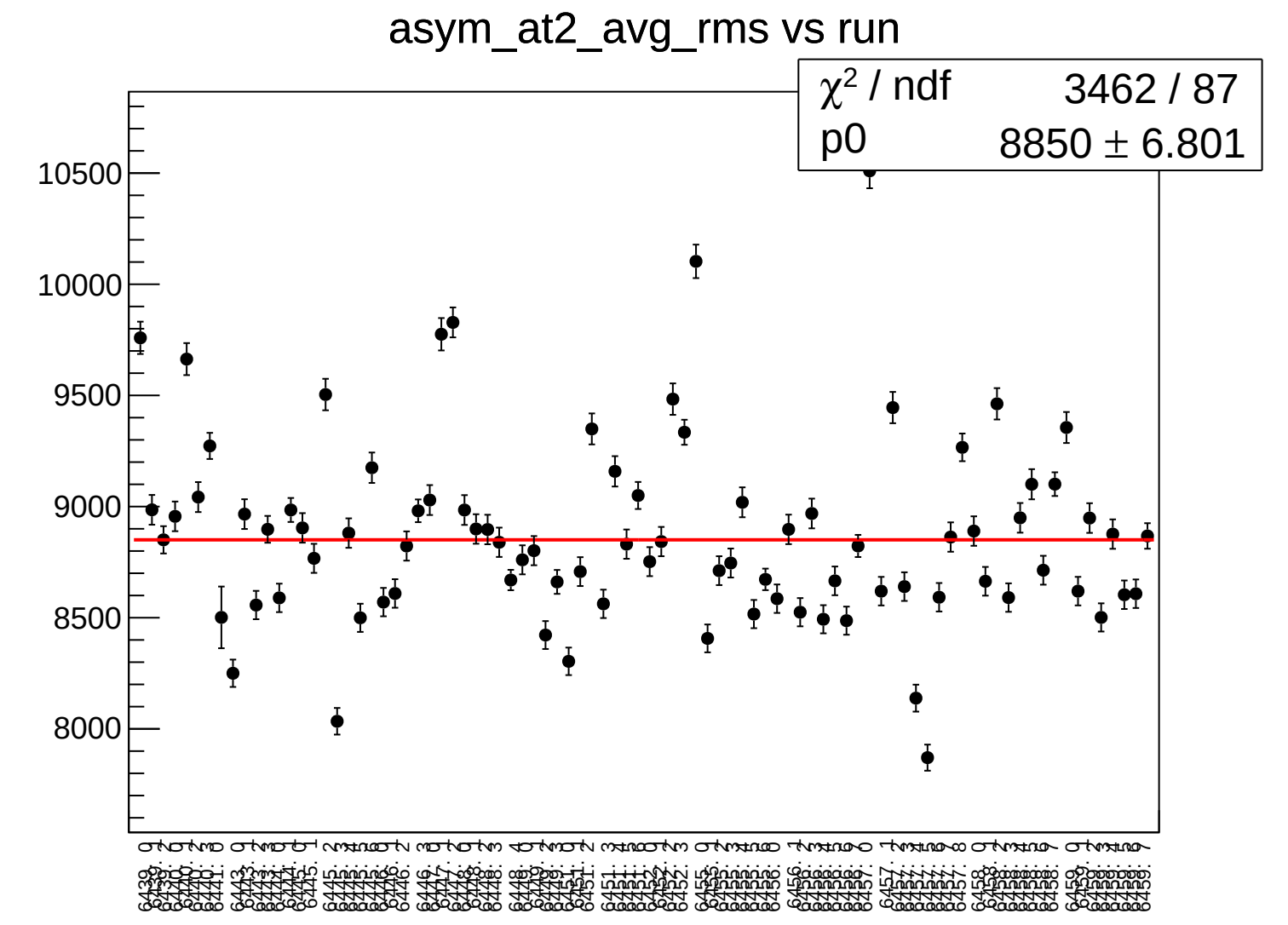

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 69.89 / 87
p0 −1.294e+04 ± 9407
600
400
200
0
−200
pull
Entries 88
Mean −370.8
Std Dev 427
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

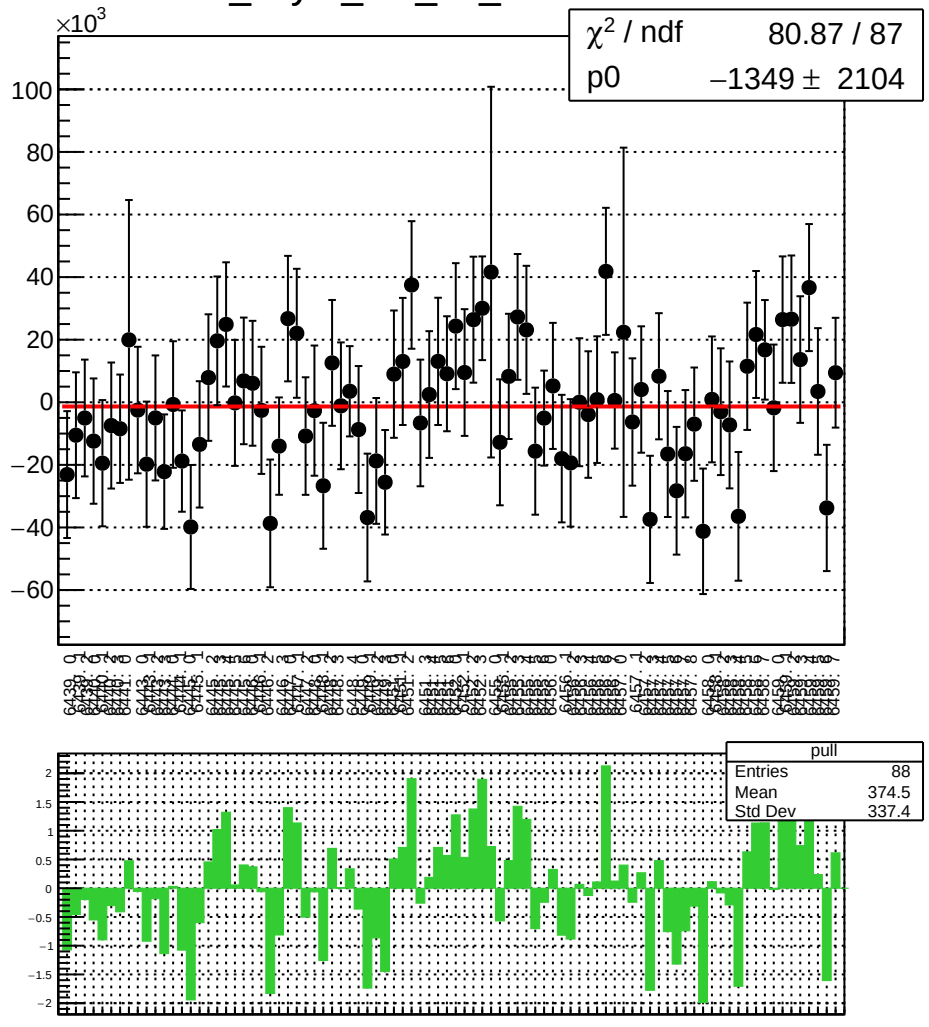

pull1D
Entries 88
Mean −0.004371
Std Dev 0.8912
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

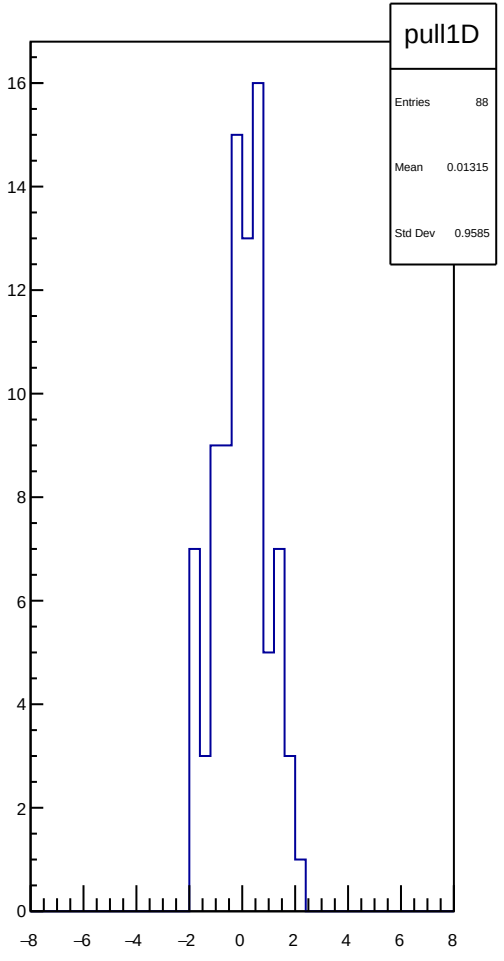

asym_at2_avg_correction_rms vs run
χ² / ndf 2800 / 87
p0 8658 ± 6.652
10000
9500
9000
8500
8000
7500

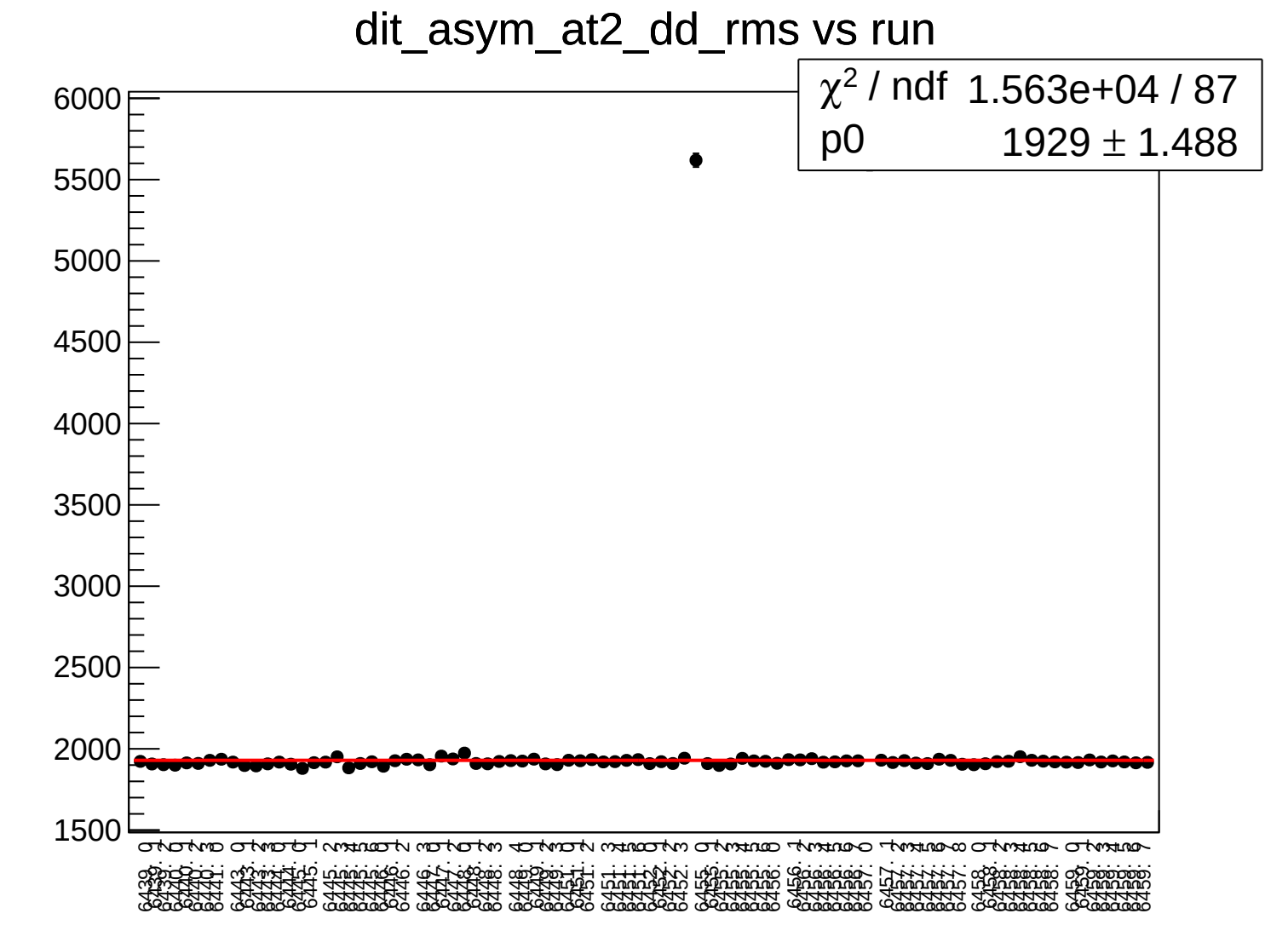

asym_at2_avg_mean vs run
×10^3
χ² / ndf 67.21 / 87
p0 1.556e+04 ± 9618
200
0
−200
−400
−600
pull
Entries 88
Mean 2314
Std Dev 2244
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

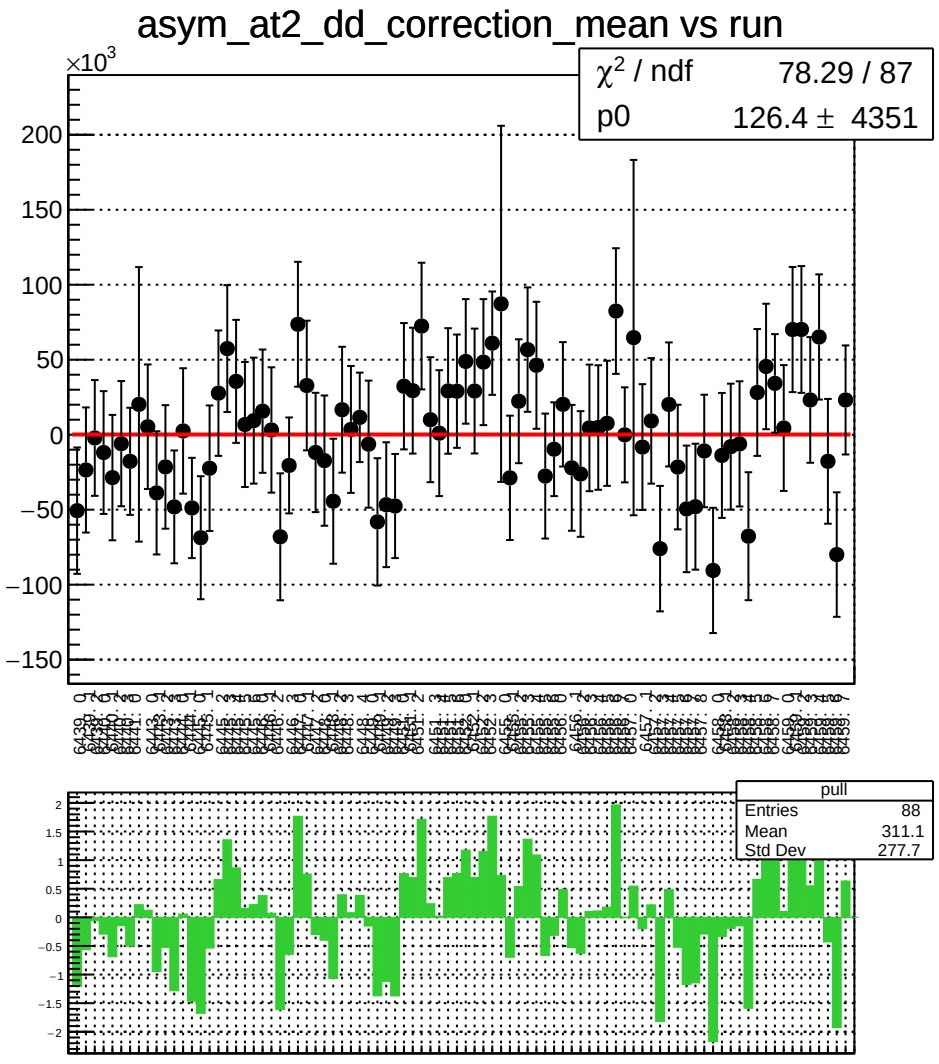

pull1D
Entries 88
Mean −0.000298
Std Dev 0.8739
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

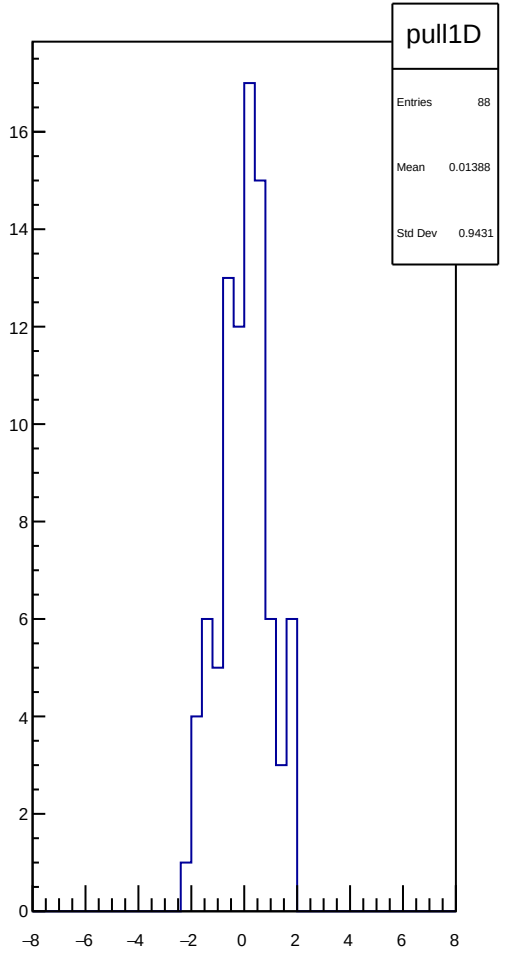

asym_at2_avg_rms vs run
χ^2 / ndf 3462 / 87
p0 8850 ± 6.801
10500
10000
9500
9000
8500
8000

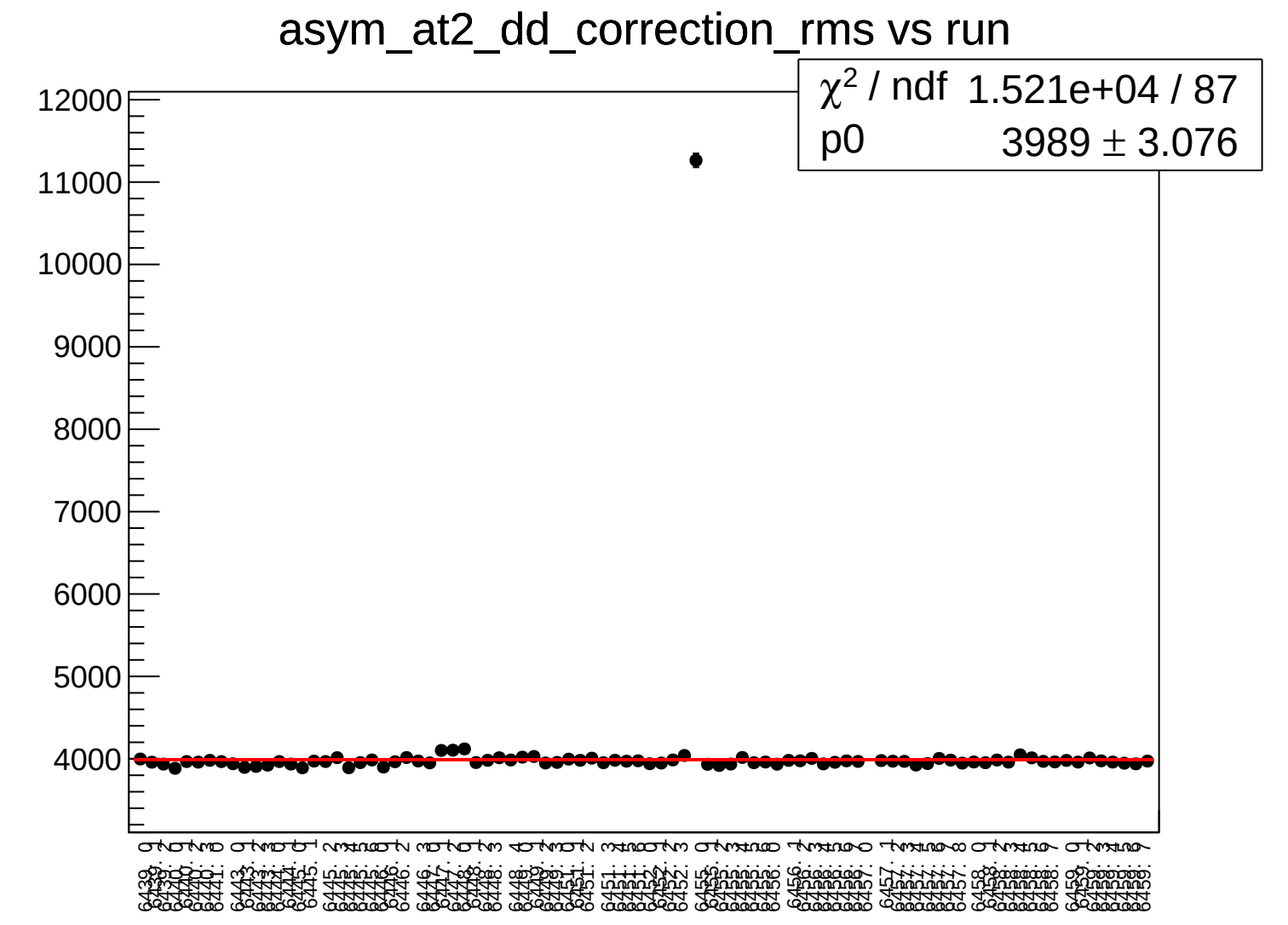

dit_asym_at2_dd_mean vs run
χ^2 / ndf 80.87 / 87
p0 −1349 ± 2104
×10^3
pull
Entries 88
Mean 374.5
Std Dev 337.4

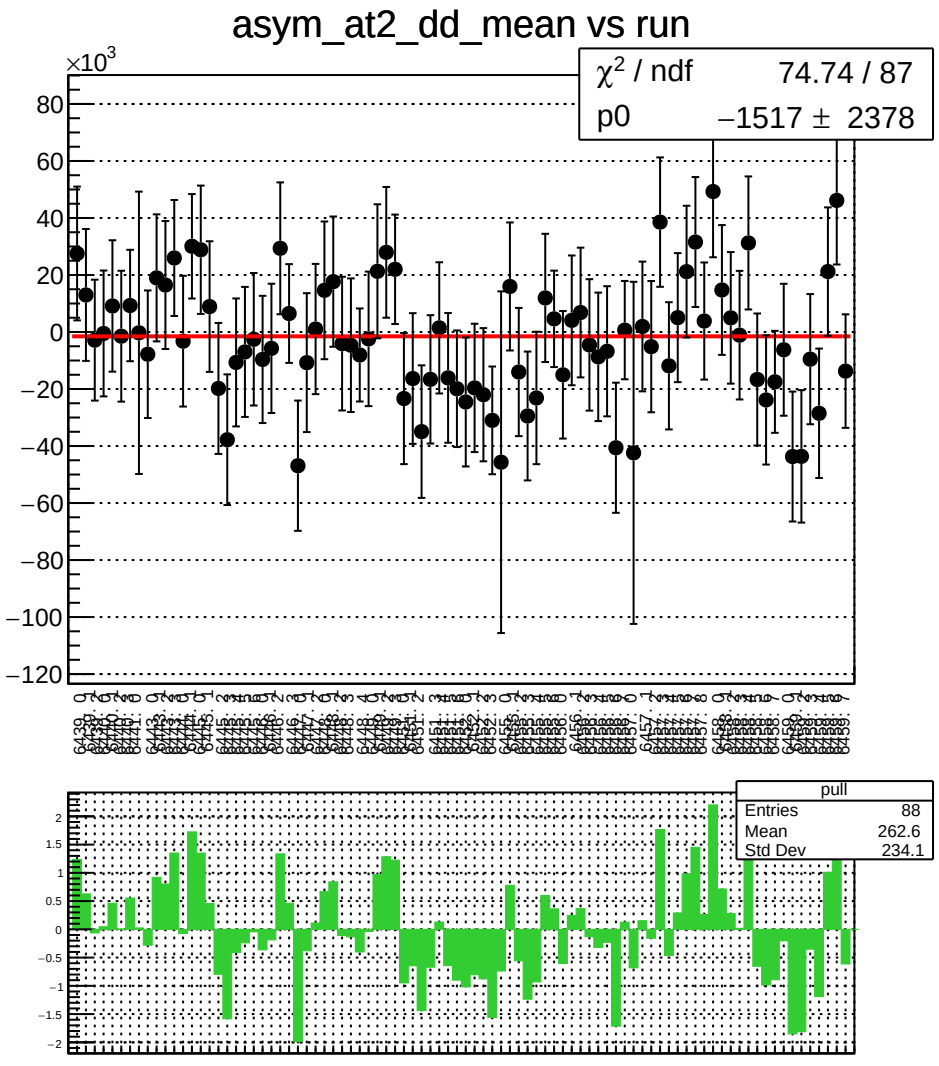

pull1D
Entries 88
Mean 0.01315
Std Dev 0.9585

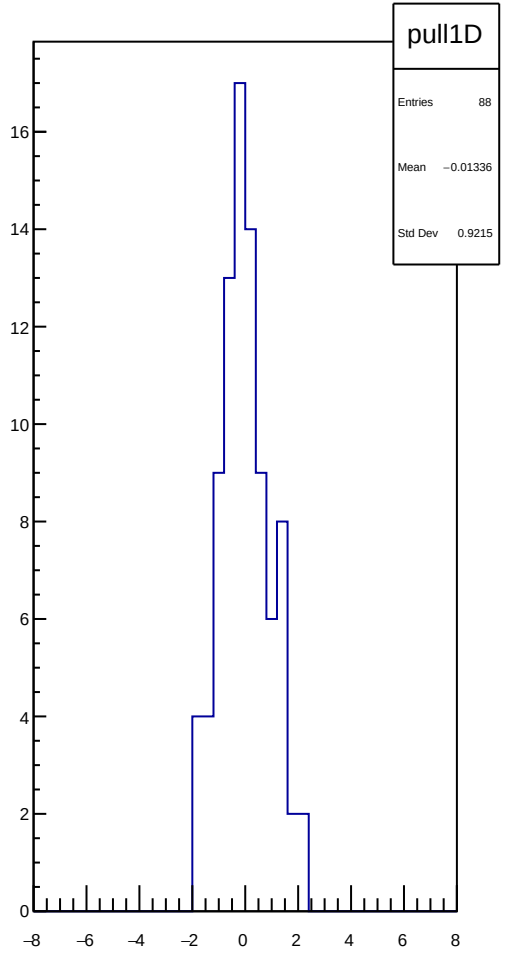

dit_asym_at2_dd_rms vs run
χ² / ndf 1.563e+04 / 87
p0 1929 ± 1.488
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

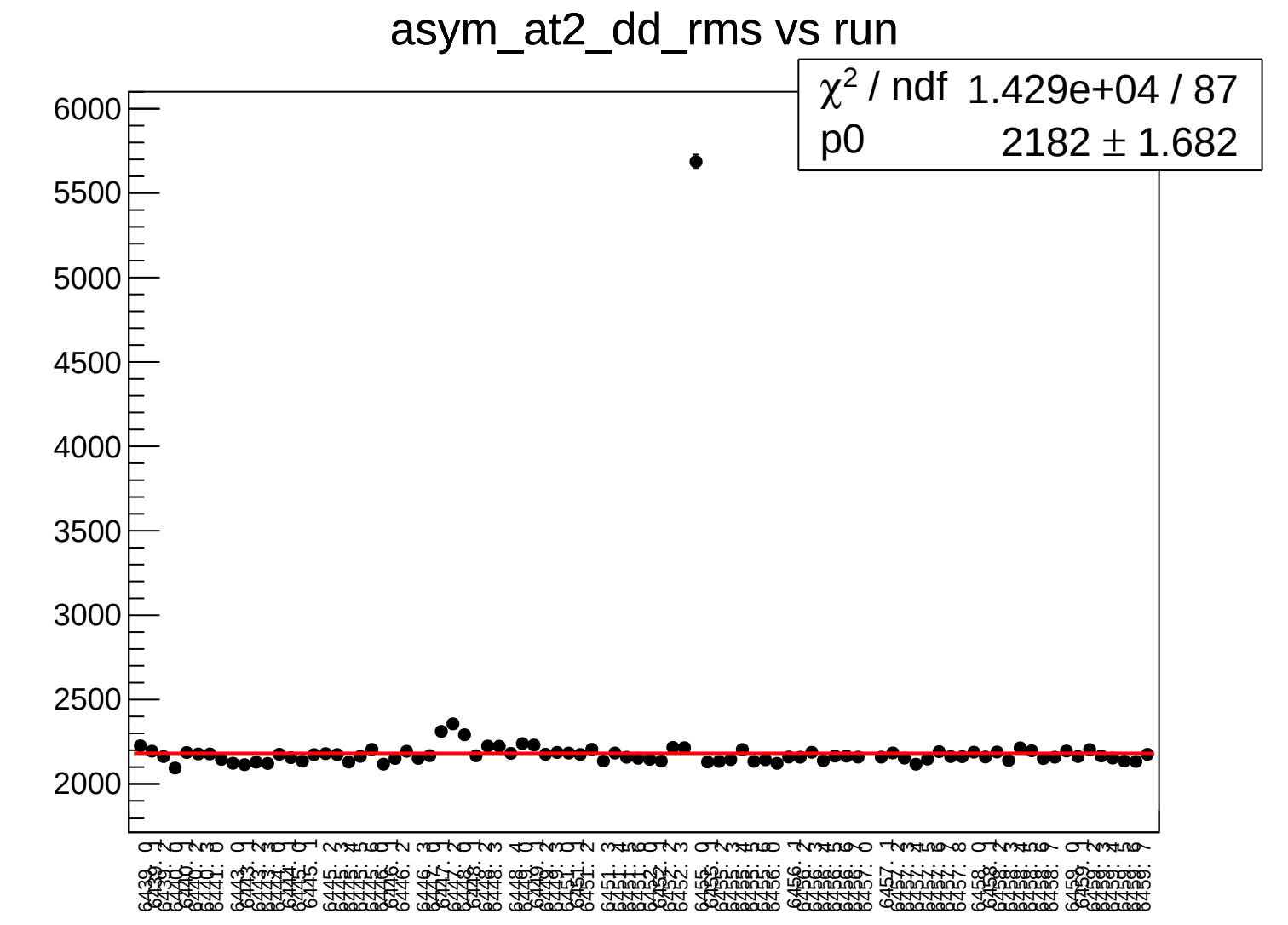

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 78.29 / 87
p0 126.4 ± 4351
200
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 311.1
Std Dev 277.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

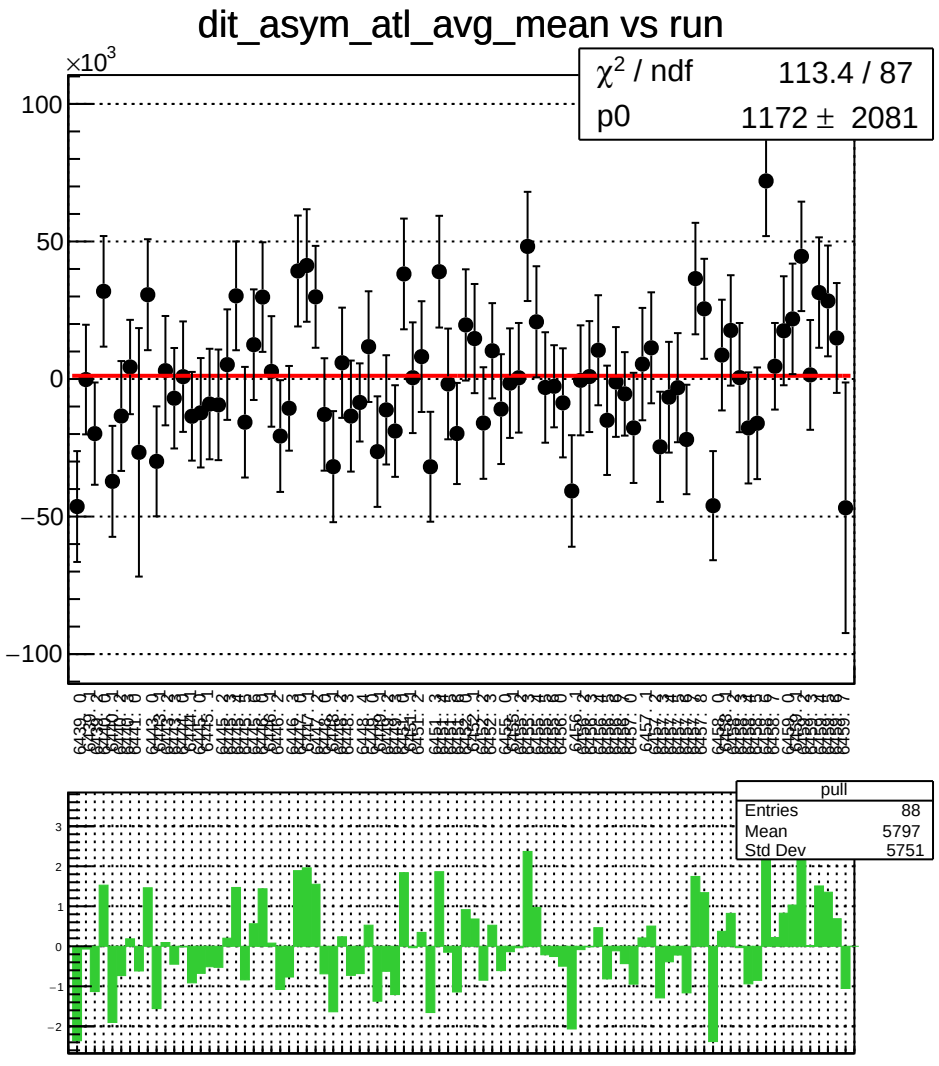

pull1D
Entries 88
Mean 0.01388
Std Dev 0.9431
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

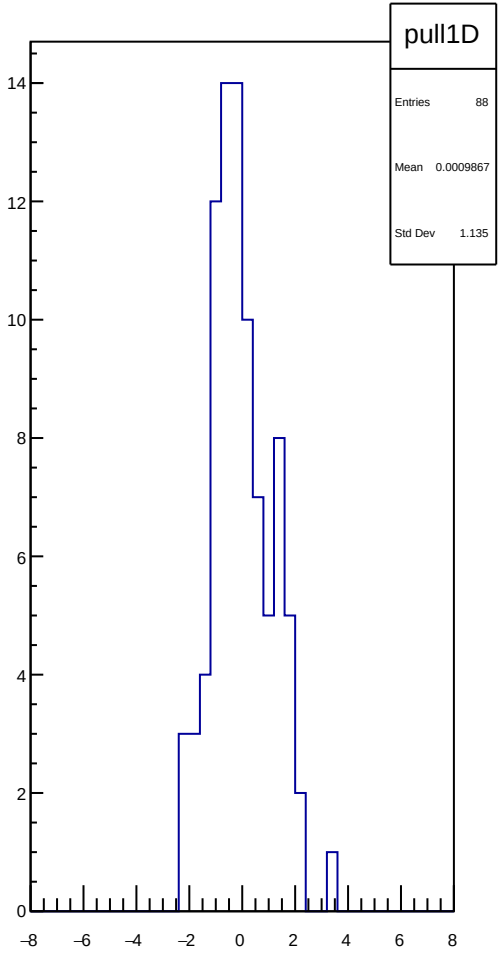

asym_at2_dd_correction_rms vs run
χ² / ndf 1.521e+04 / 87
p0 3989 ± 3.076
12000
11000
10000
9000
8000
7000
6000
5000
4000

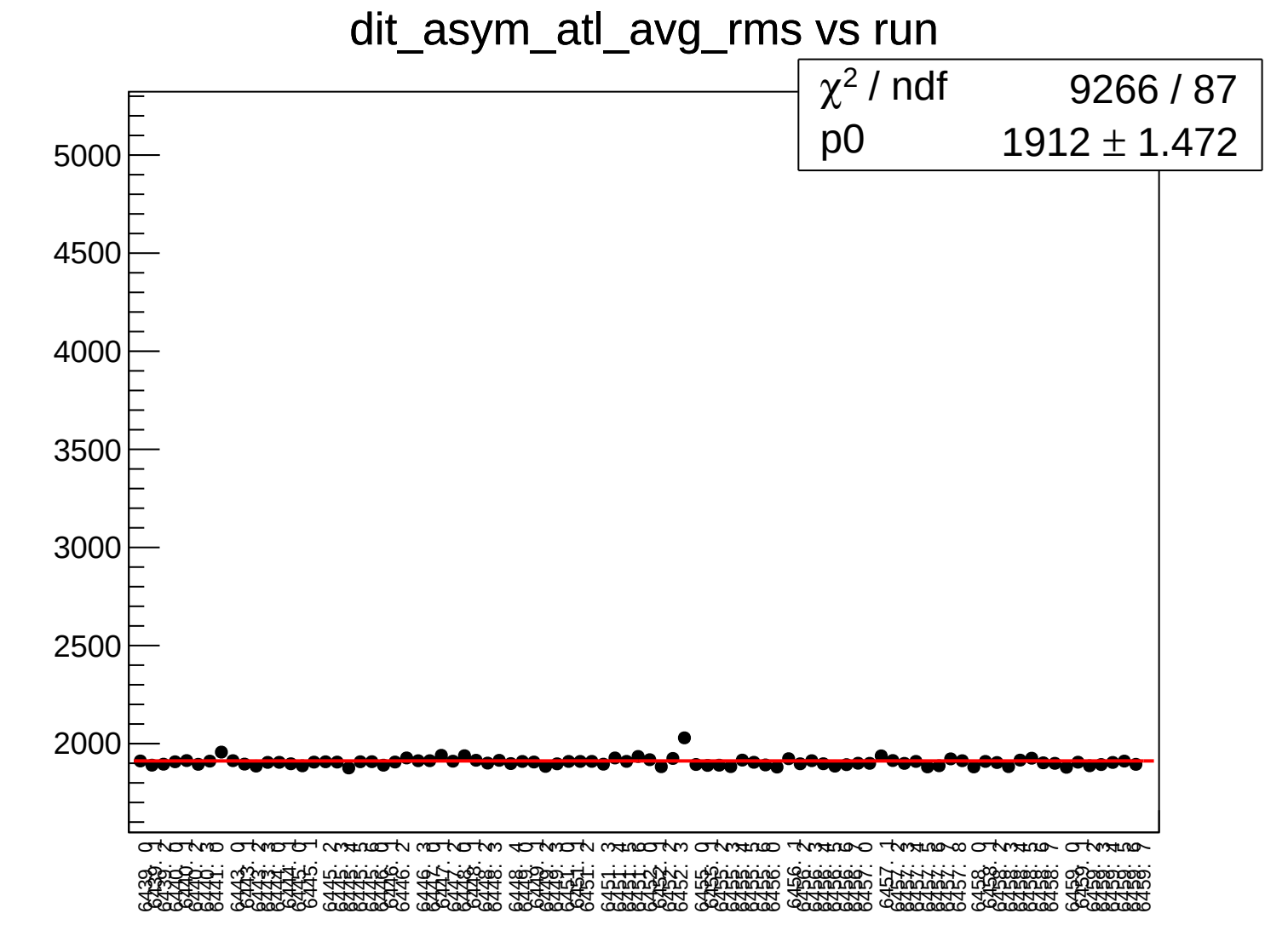

asym_at2_dd_mean vs run
×10^3
χ² / ndf 74.74 / 87
p0 −1517 ± 2378
pull
Entries 88
Mean 262.6
Std Dev 234.1

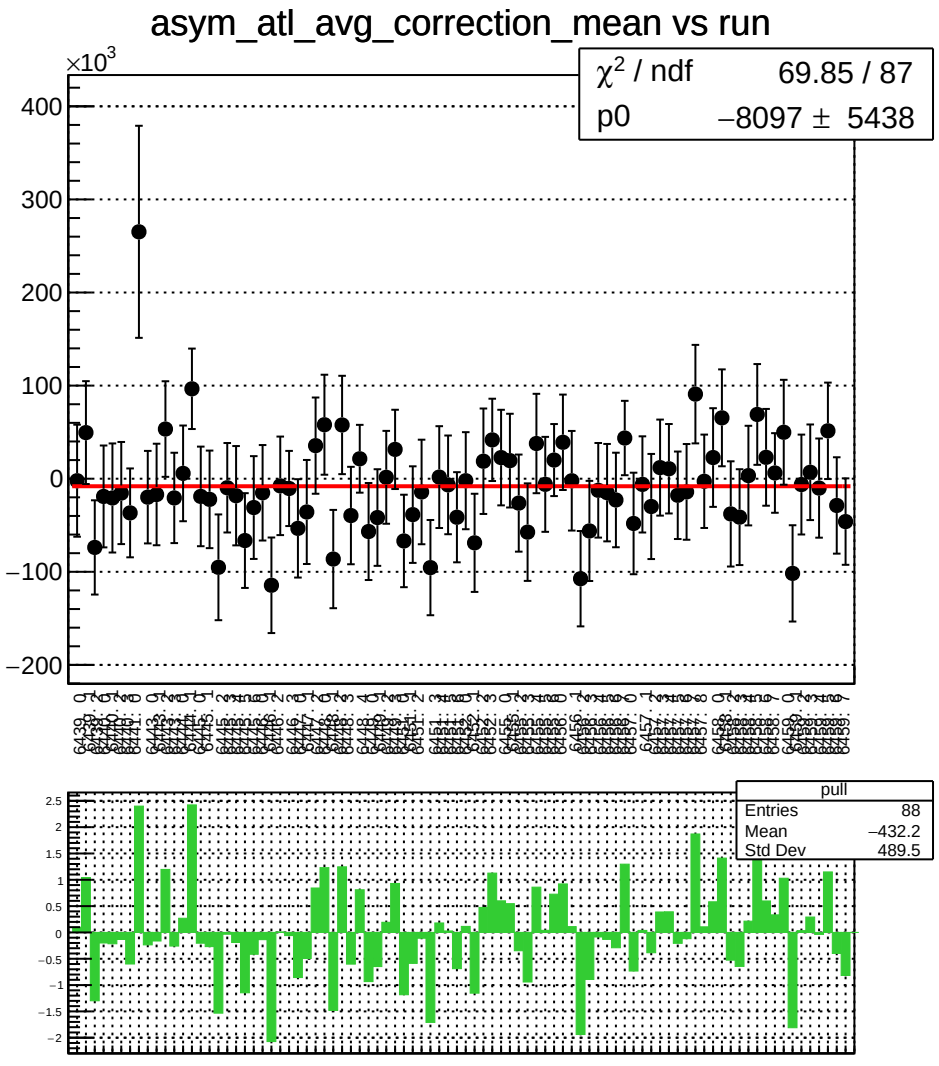

pull1D
Entries 88
Mean −0.01336
Std Dev 0.9215

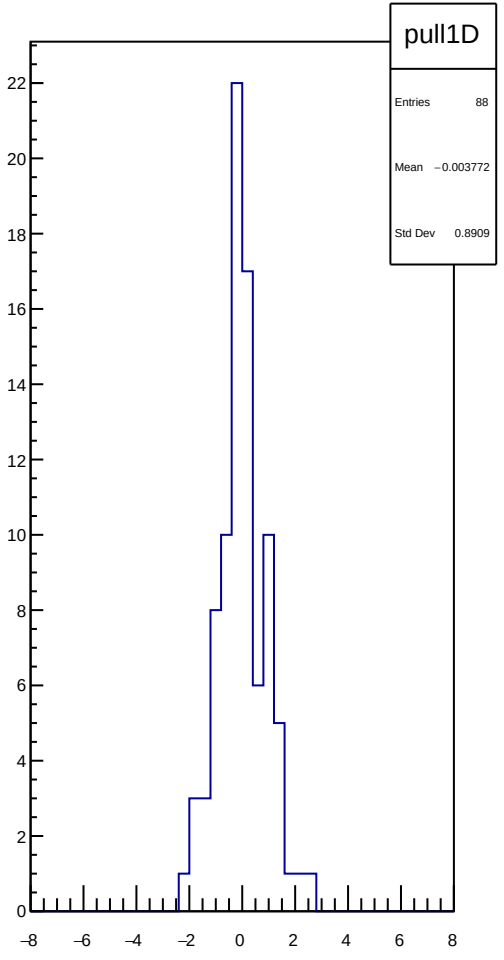

asym_at2_dd_rms vs run
χ^2 / ndf 1.429e+04 / 87
p0 2182 ± 1.682
6000
5500
5000
4500
4000
3500
3000
2500
2000

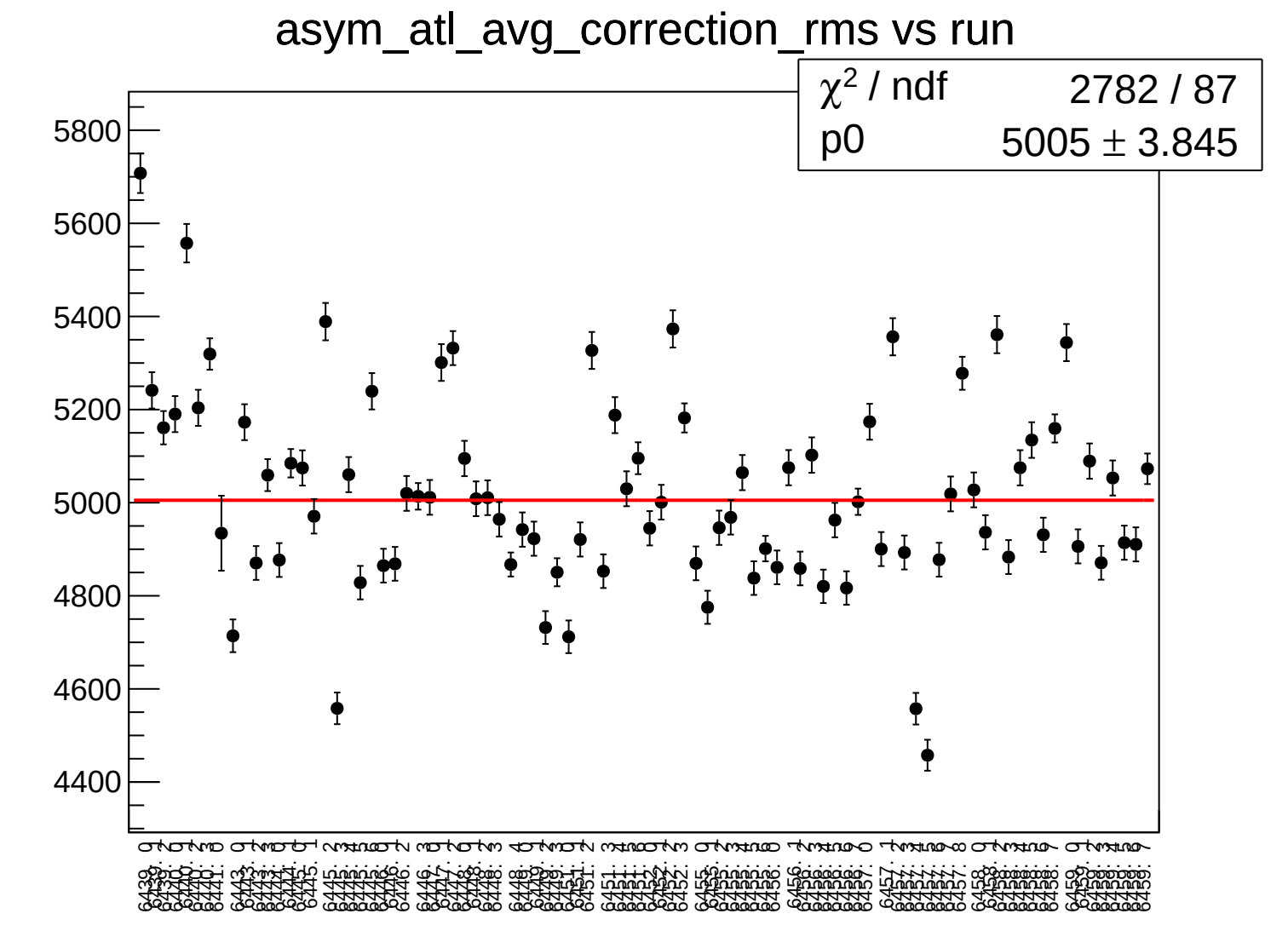

dit_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 113.4 / 87
p0 1172 ± 2081
100
50
0
−50
−100
pull
Entries 88
Mean 5797
Std Dev 5751
3
2
1
0
−1
−2

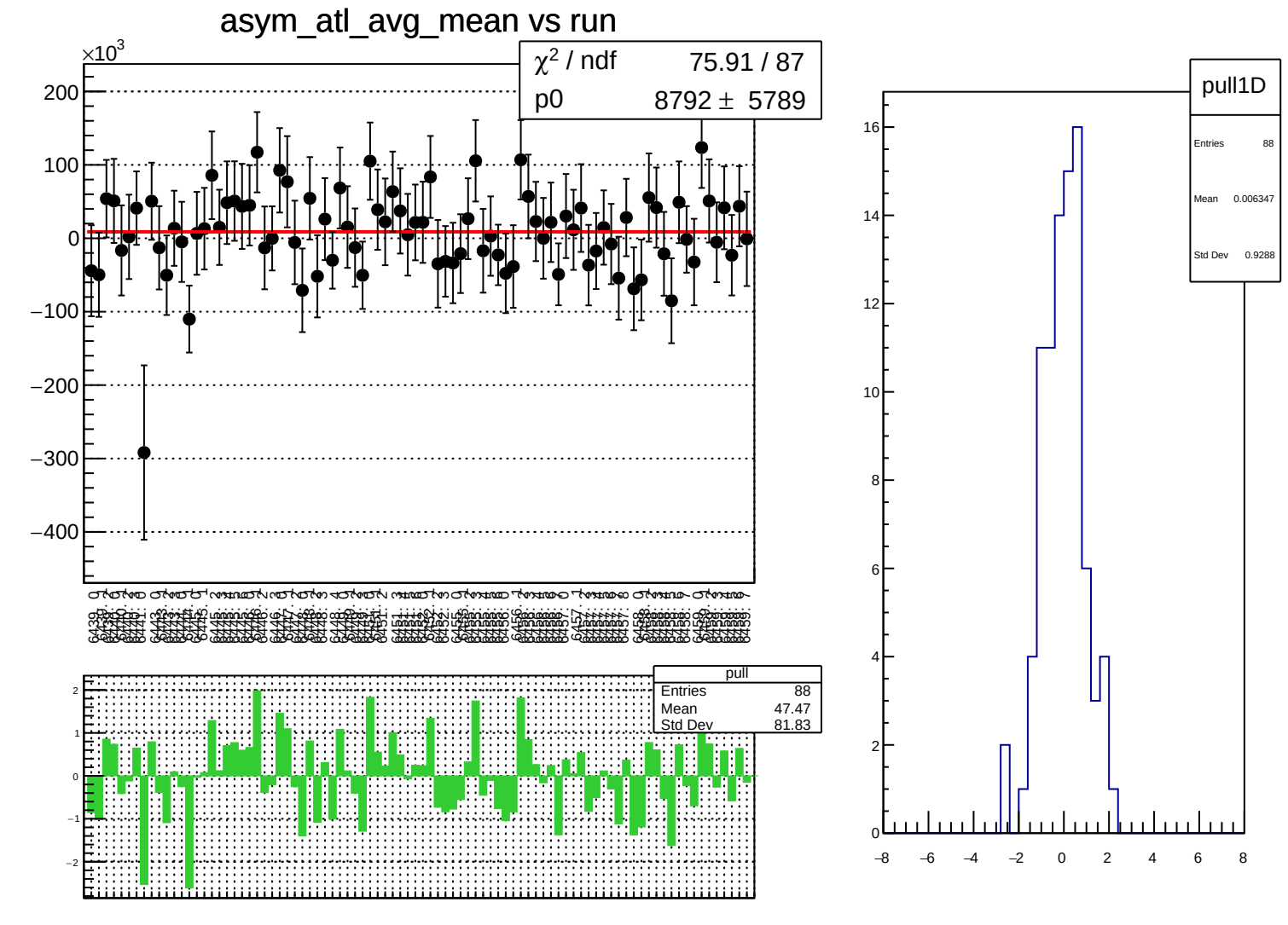

pull1D
Entries 88
Mean 0.0009867
Std Dev 1.135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

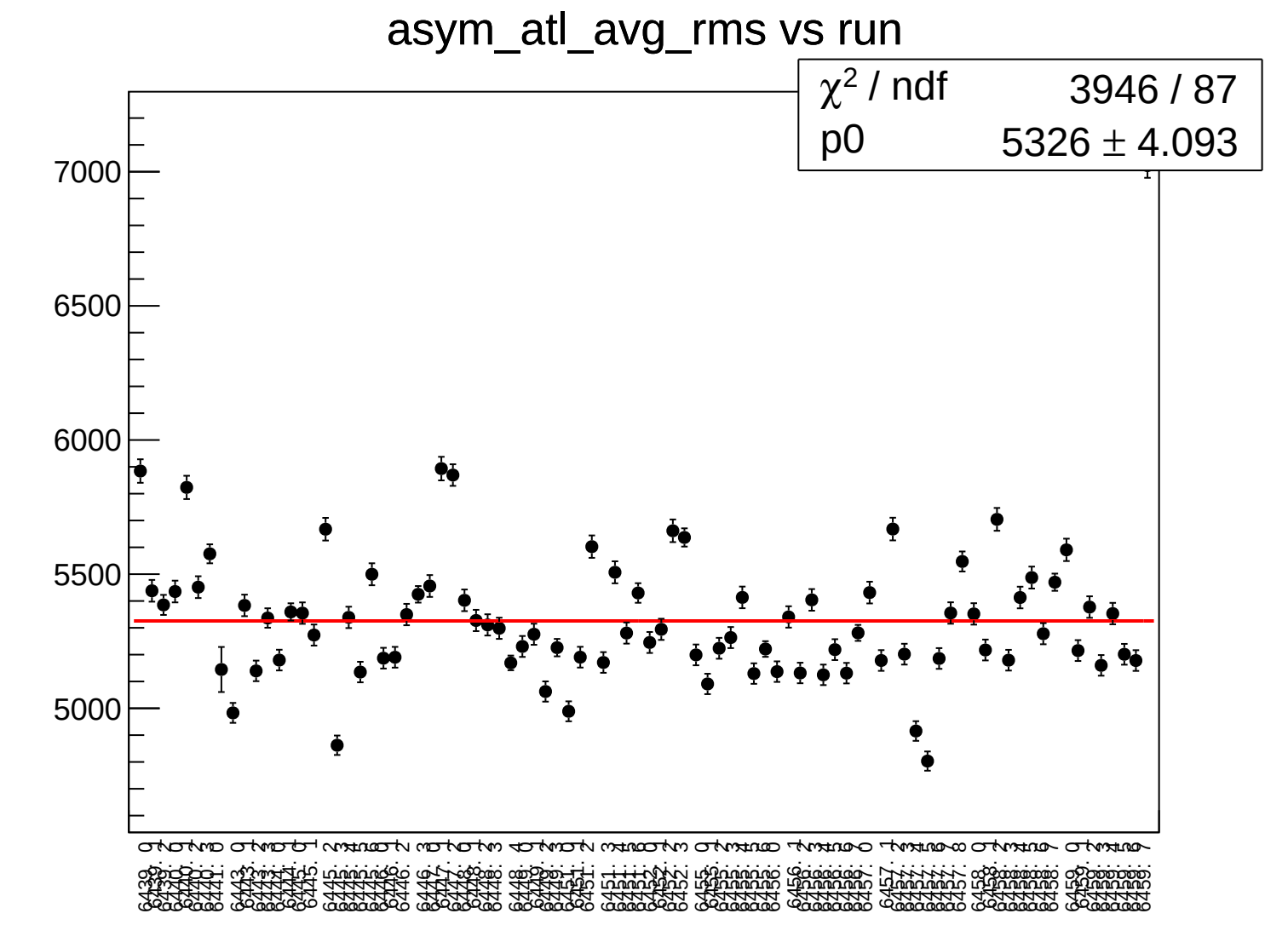

dit_asym_atl_avg_rms vs run
χ^2 / ndf 9266 / 87
p0 1912 ± 1.472
5000
4500
4000
3500
3000
2500
2000

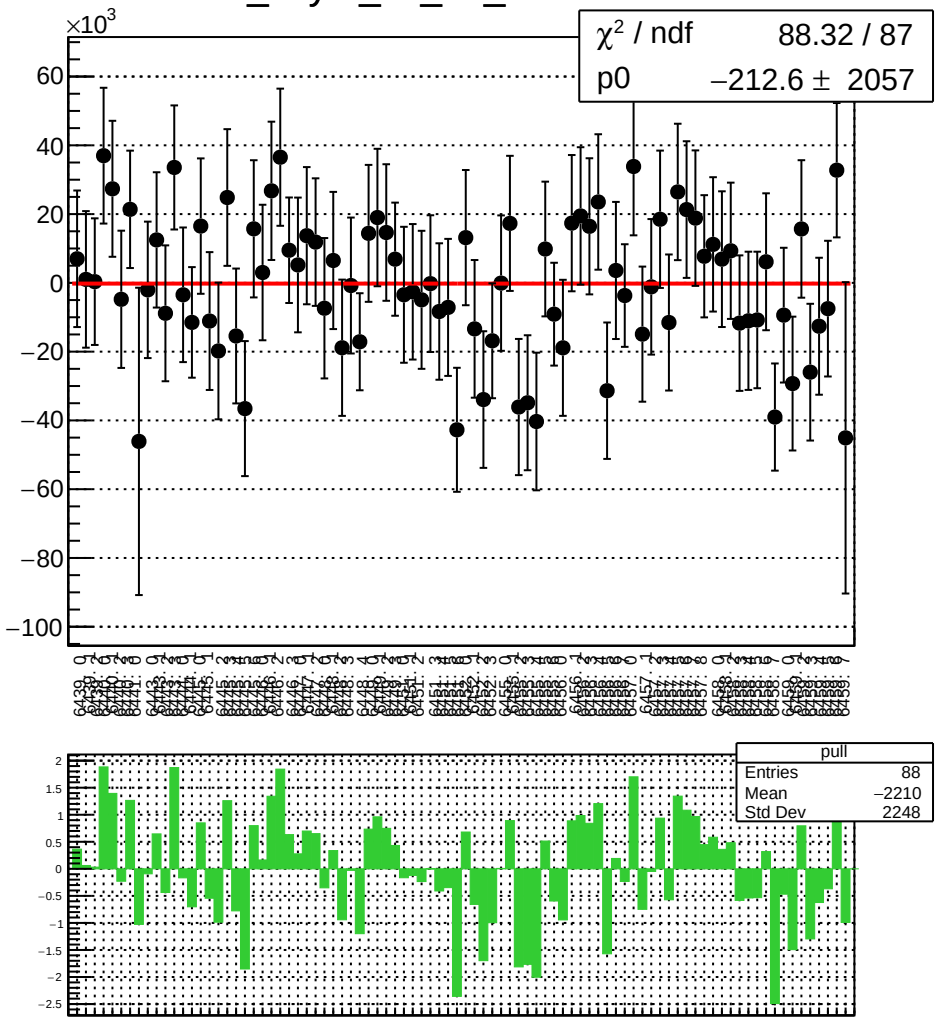

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 69.85 / 87
p0 −8097 ± 5438
400
300
200
100
0
−100
−200
pull
Entries 88
Mean −432.2
Std Dev 489.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

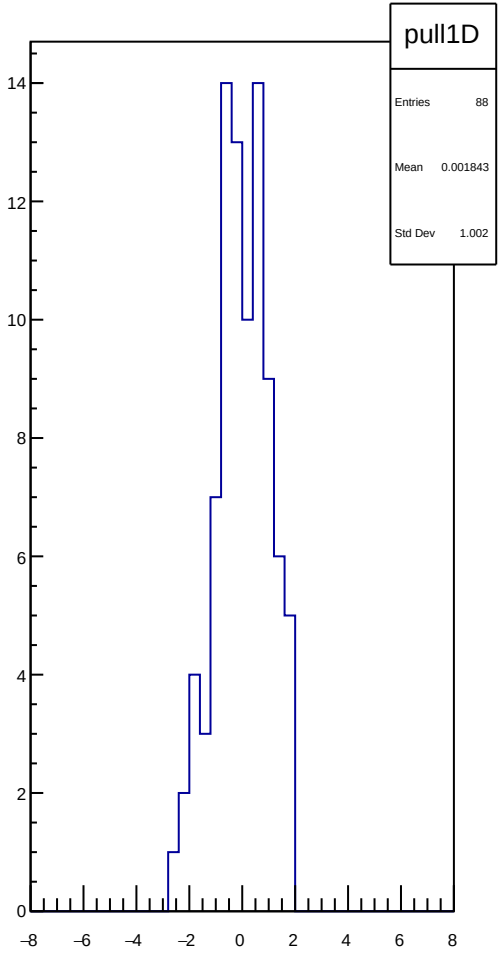

pull1D
Entries 88
Mean −0.003772
Std Dev 0.8909
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

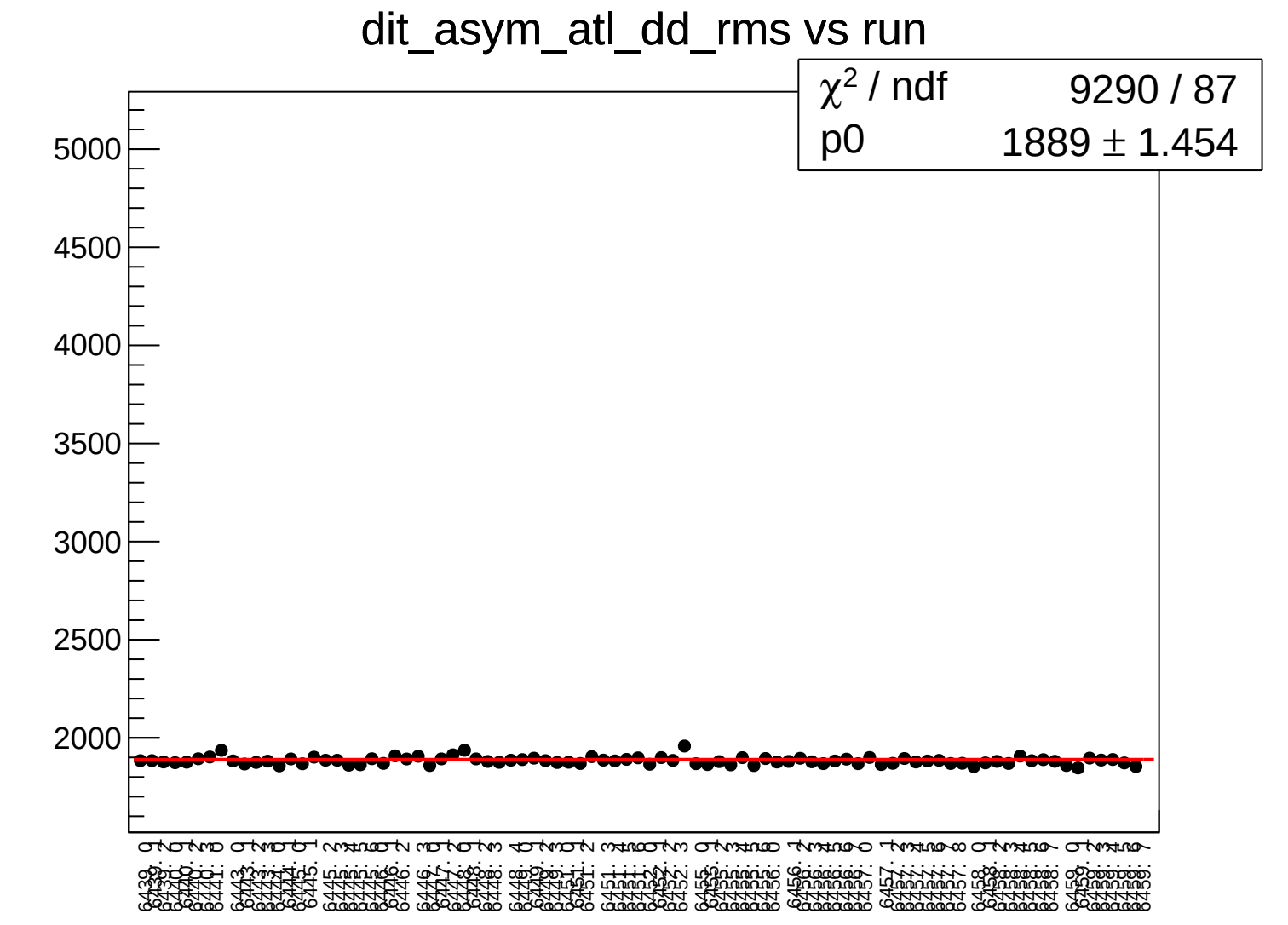

asym_atl_avg_correction_rms vs run
χ^2 / ndf 2782 / 87
p0 5005 ± 3.845
5800
5600
5400
5200
5000
4800
4600
4400

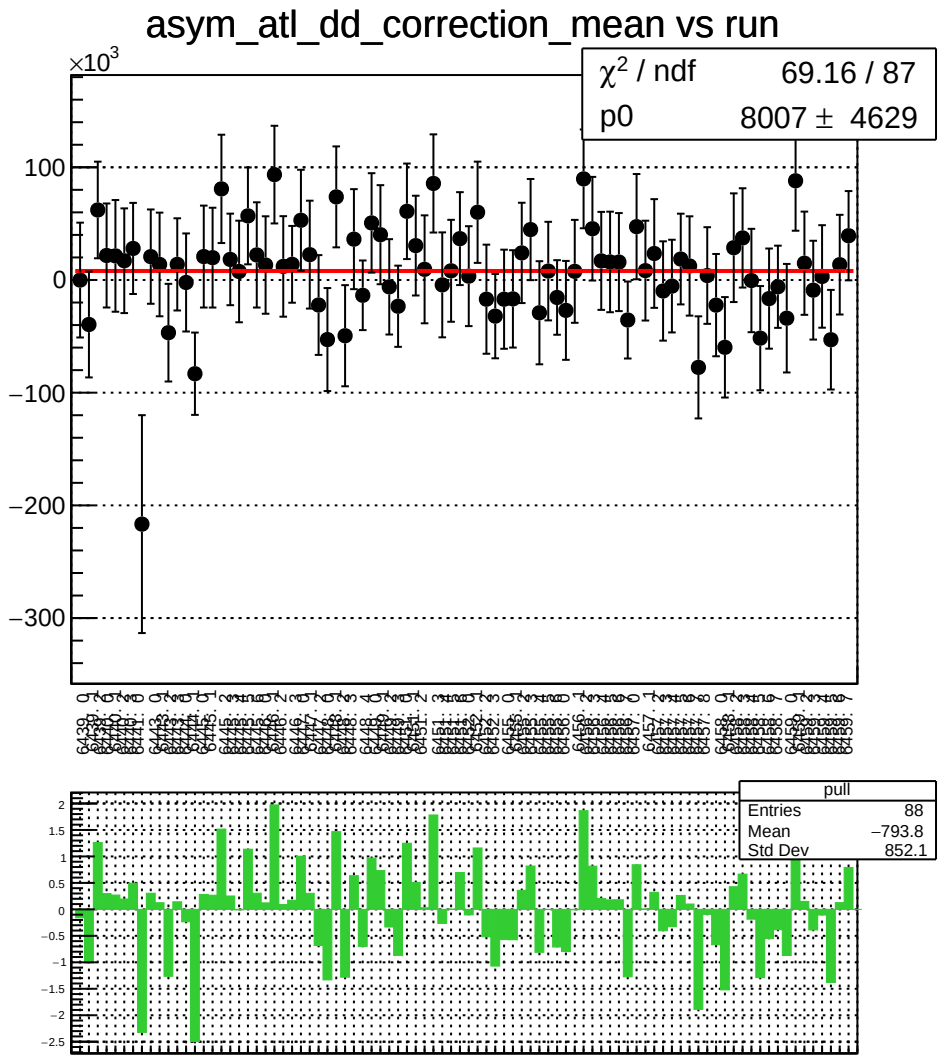

asym_atl_avg_mean vs run
×10^3
χ² / ndf 75.91 / 87
p0 8792 ± 5789
200
100
0
−100
−200
−300
−400
pull
Entries 88
Mean 47.47
Std Dev 81.83
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.006347
Std Dev 0.9288
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

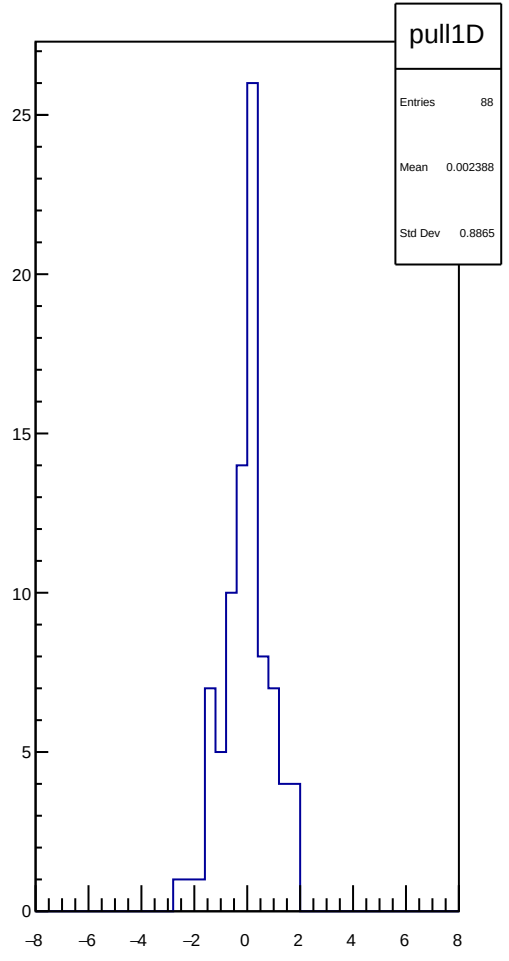

asym_atl_avg_rms vs run
χ² / ndf 3946 / 87
p0 5326 ± 4.093
7000
6500
6000
5500
5000

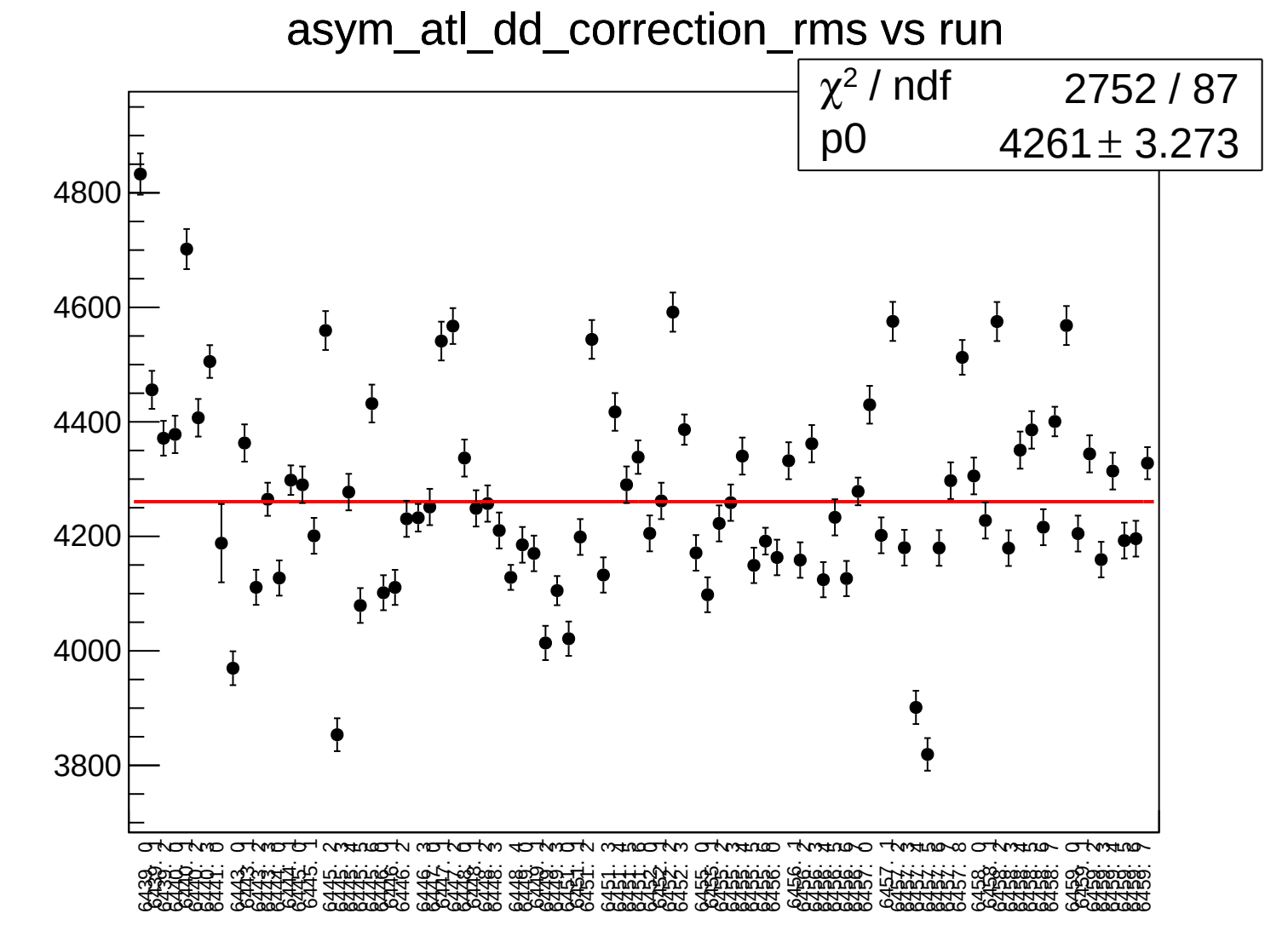

dit_asym_atl_dd_mean vs run
χ^2 / ndf 88.32 / 87
p0 −212.6 ± 2057
×10^3
pull
Entries 88
Mean −2210
Std Dev 2248

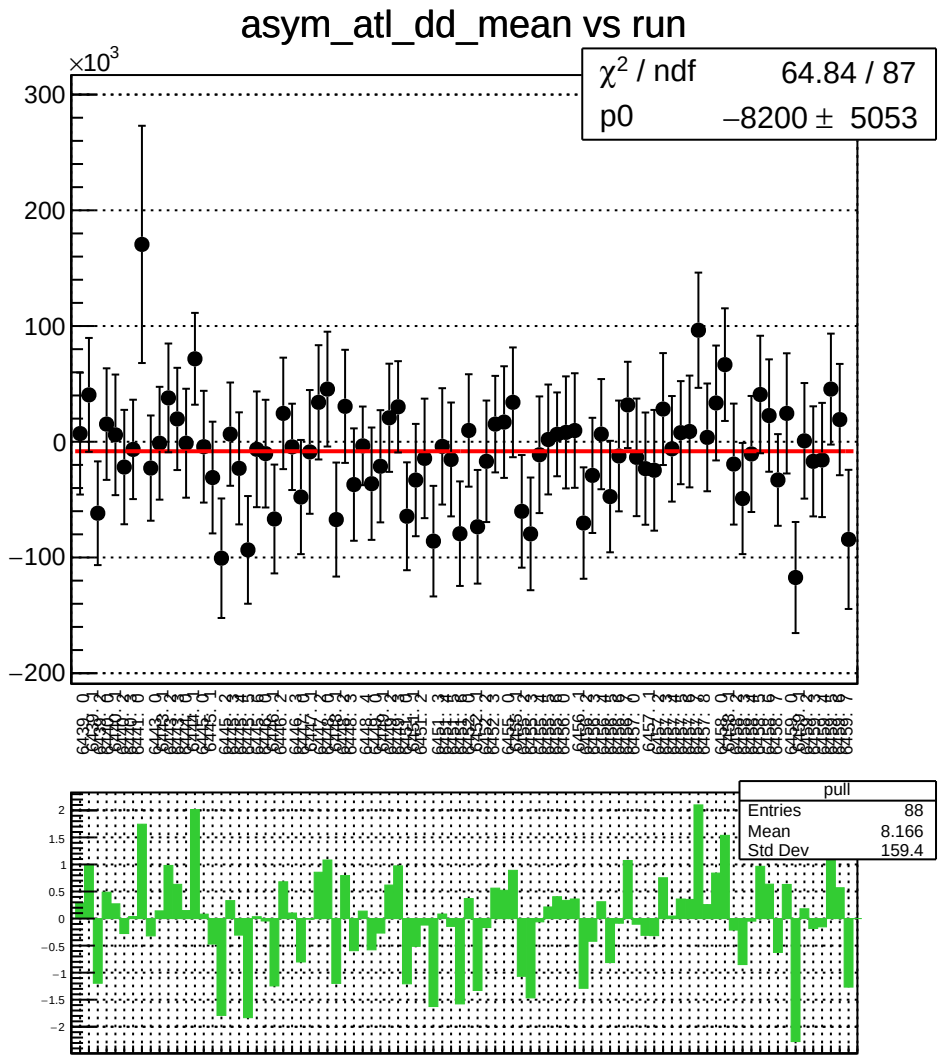

pull1D
Entries 88
Mean 0.001843
Std Dev 1.002

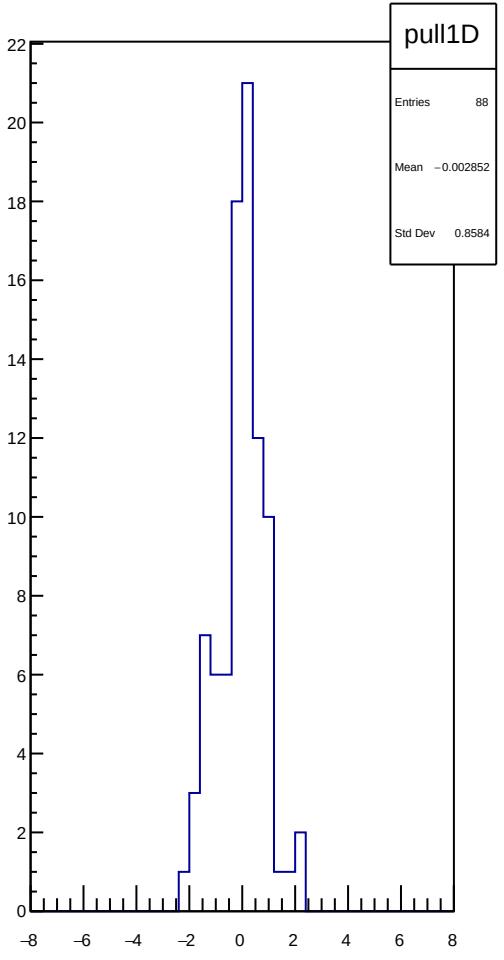

dit_asym_atl_dd_rms vs run
χ^2 / ndf 9290 / 87
p0 1889 ± 1.454
5000
4500
4000
3500
3000
2500
2000

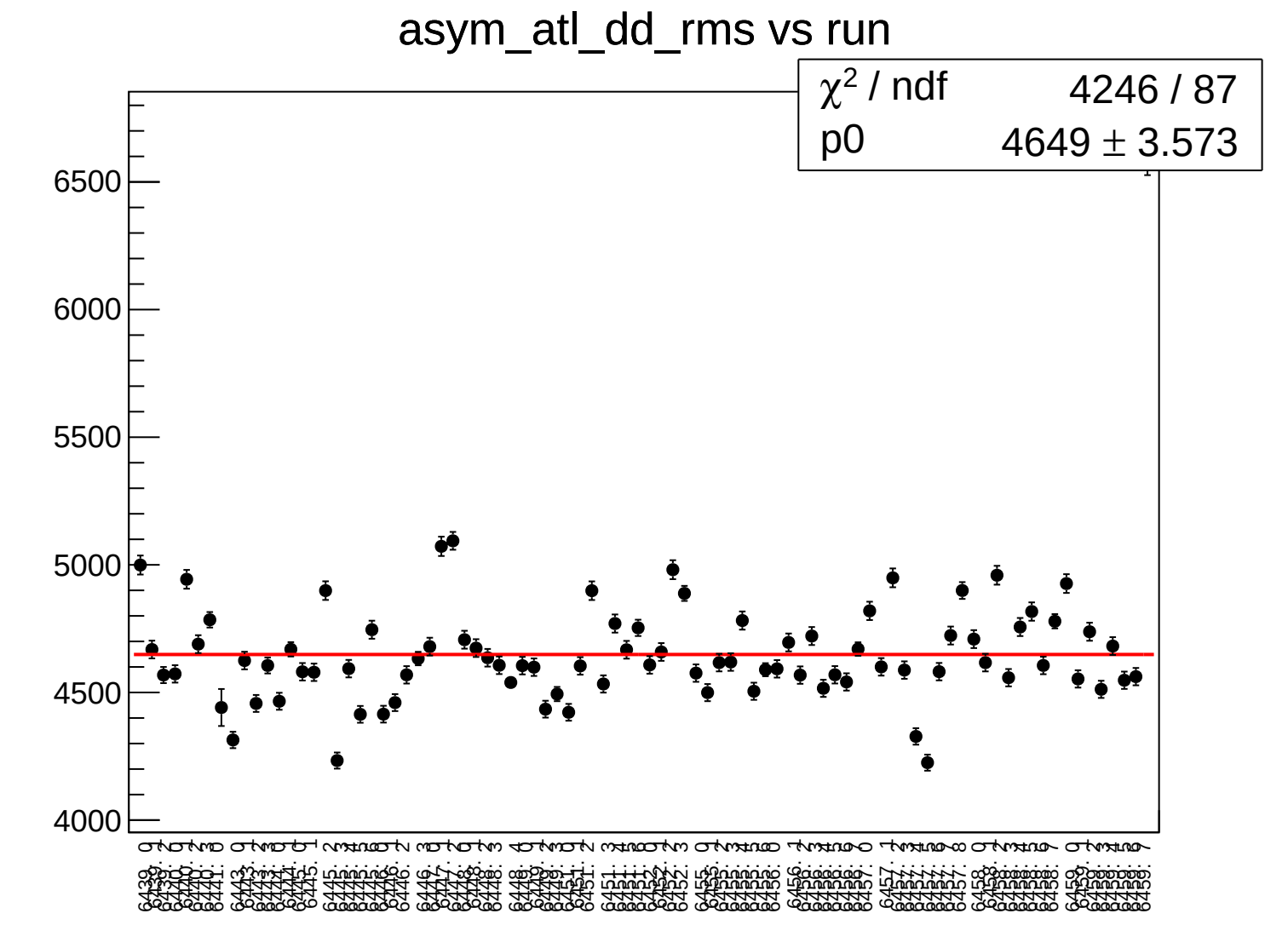

asym_atl_dd_correction_mean vs run
χ^2 / ndf 69.16 / 87
p0 8007 ± 4629
×10^3
100
0
−100
−200
−300
pull
Entries 88
Mean −793.8
Std Dev 852.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

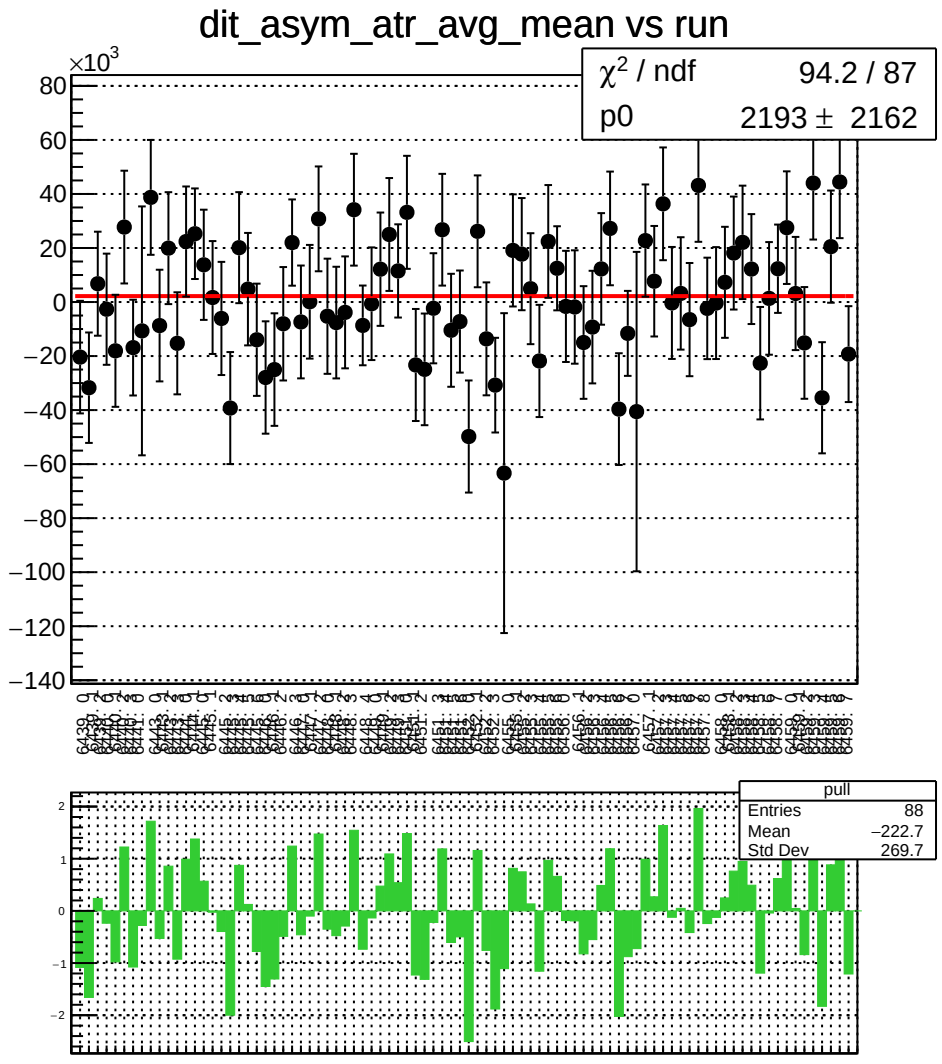

pull1D
Entries 88
Mean 0.002388
Std Dev 0.8865
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

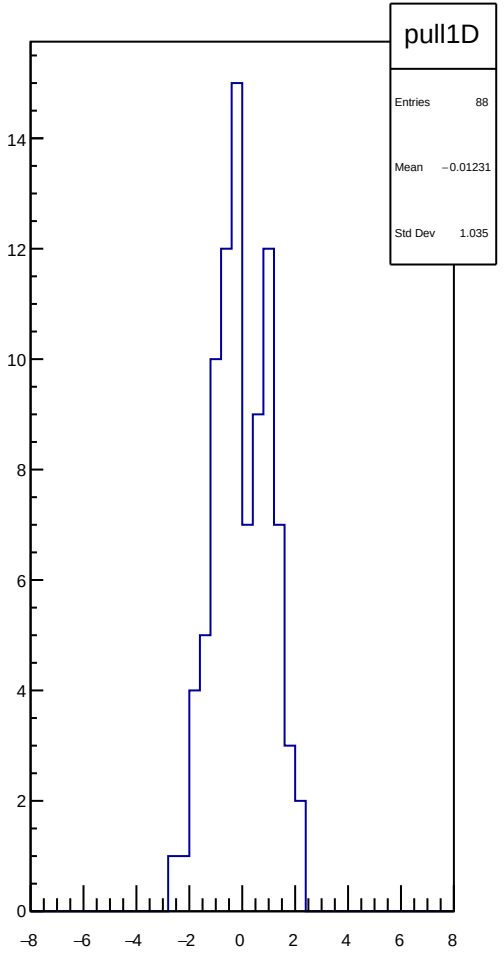

asym_atl_dd_correction_rms vs run
χ² / ndf 2752 / 87
p0 4261 ± 3.273
4800
4600
4400
4200
4000
3800

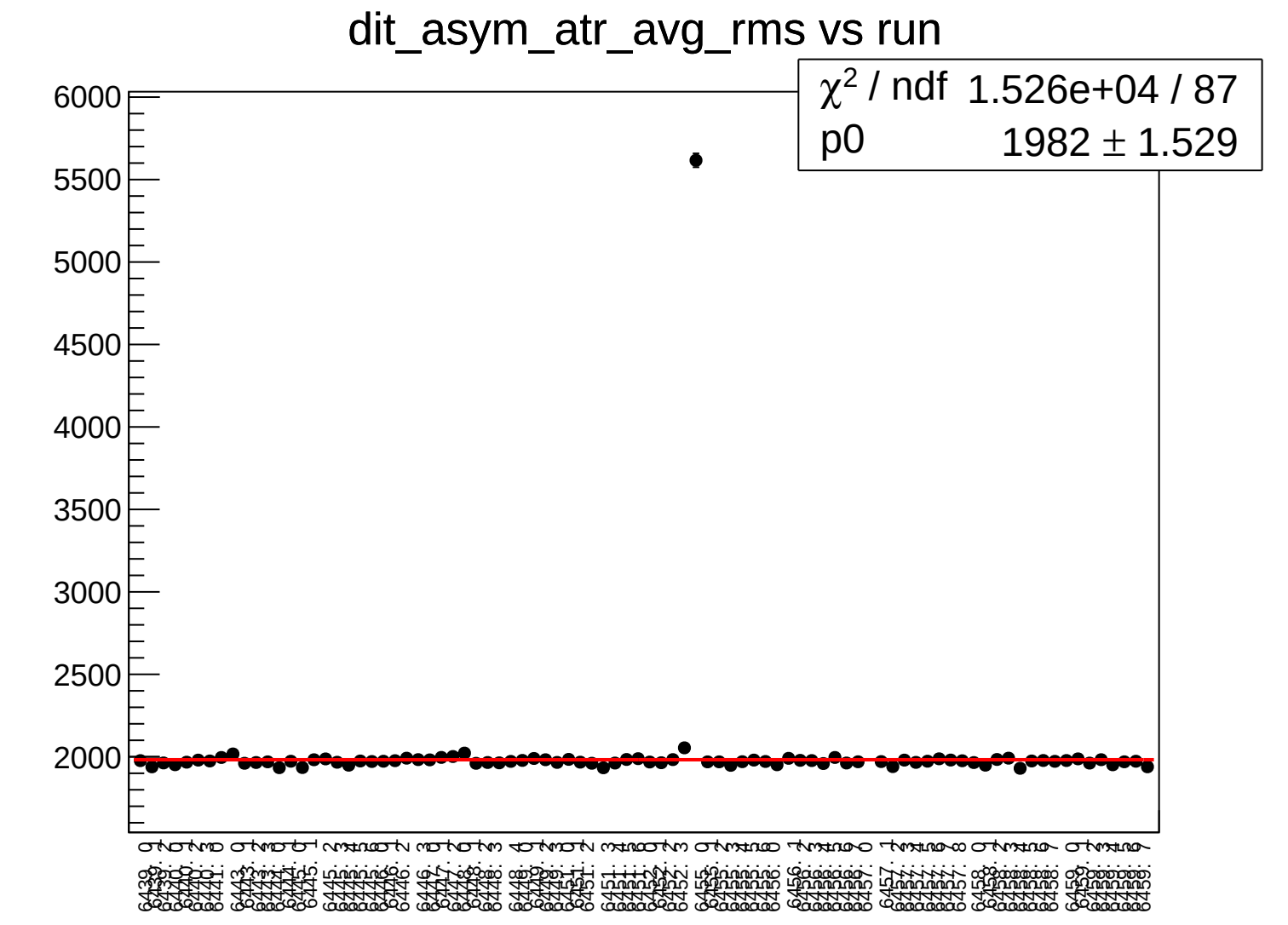

asym_atl_dd_mean vs run
×10^3
χ² / ndf 64.84 / 87
p0 −8200 ± 5053
pull
Entries 88
Mean 8.166
Std Dev 159.4

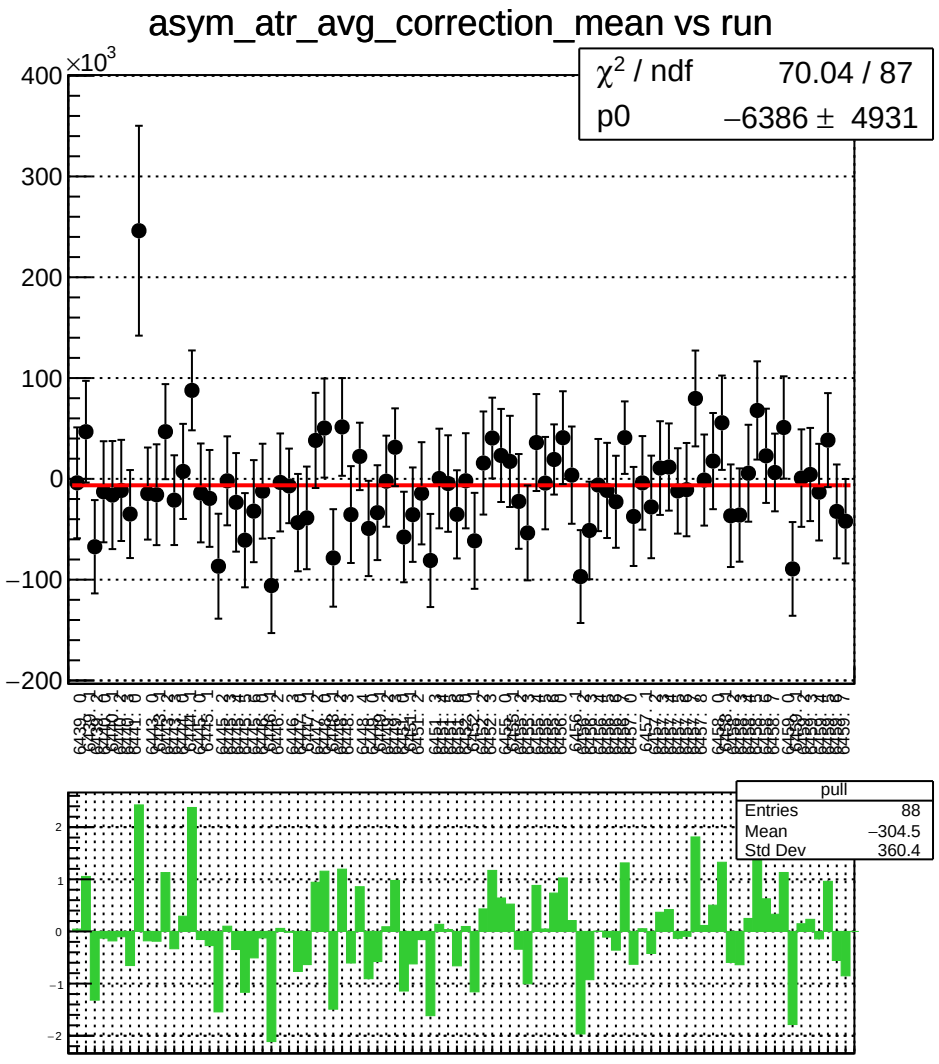

pull1D
Entries 88
Mean −0.002852
Std Dev 0.8584

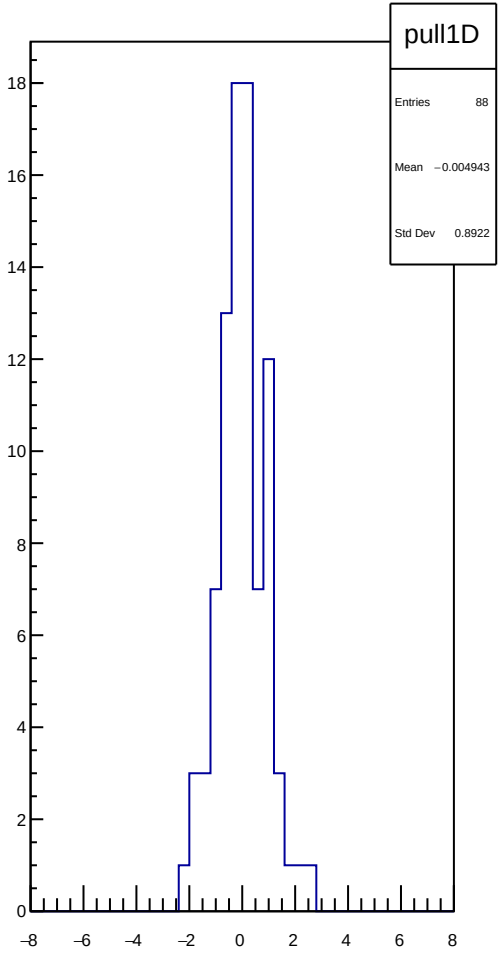

asym_atl_dd_rms vs run
χ² / ndf 4246 / 87
p0 4649 ± 3.573
6500
6000
5500
5000
4500
4000

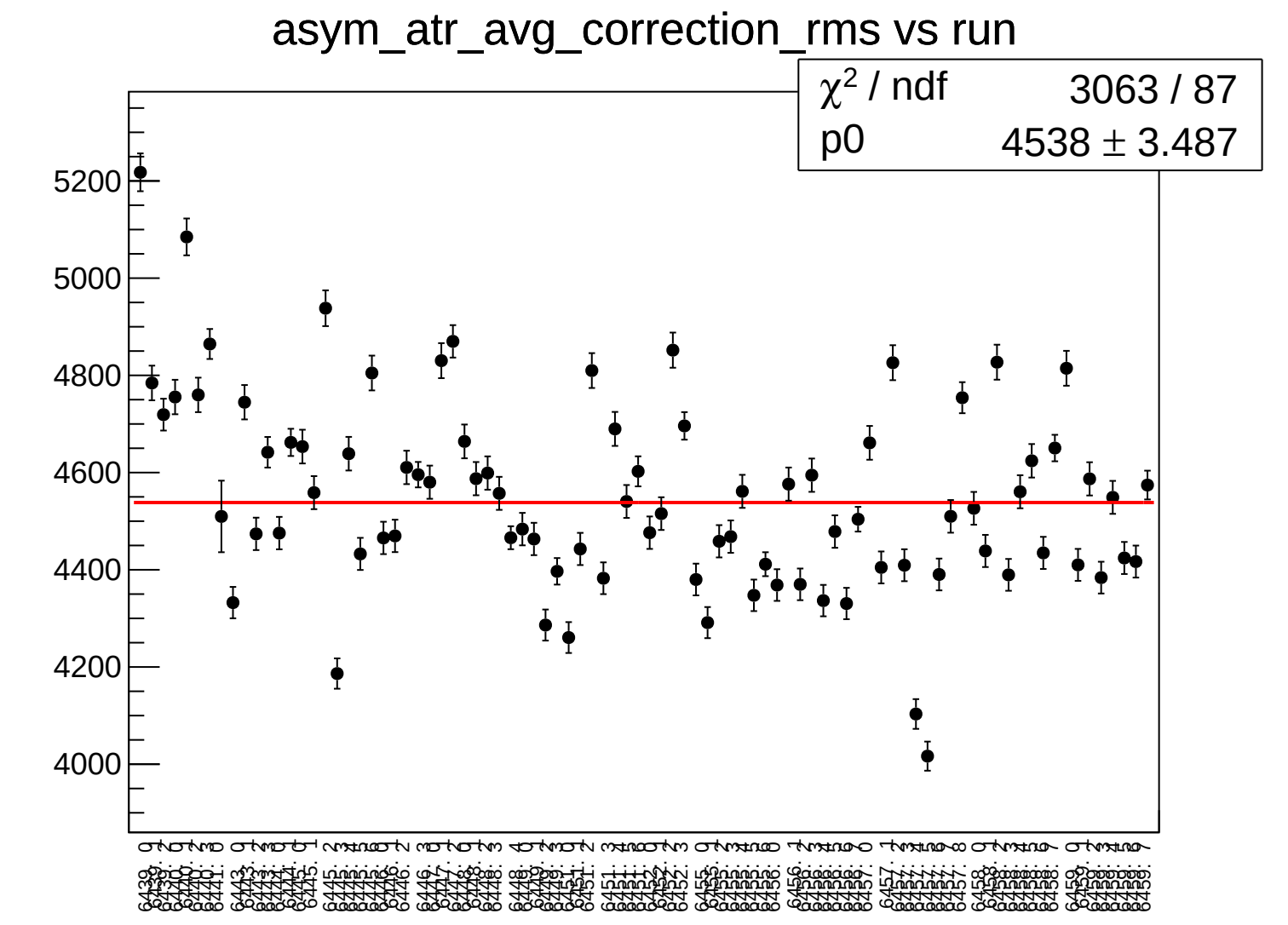

dit_asym_atr_avg_mean vs run
×10^3
χ² / ndf 94.2 / 87
p0 2193 ± 2162
pull
Entries 88
Mean −222.7
Std Dev 269.7

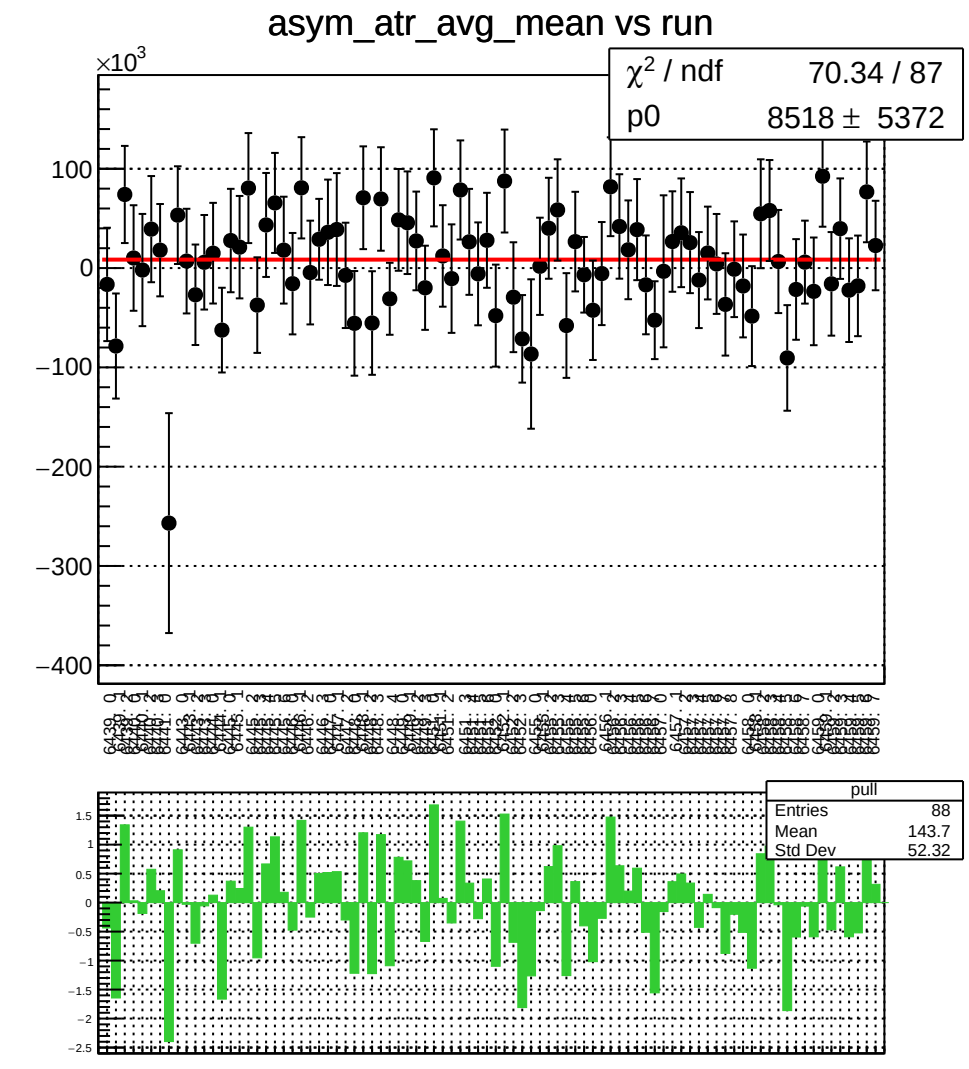

pull1D
Entries 88
Mean −0.01231
Std Dev 1.035

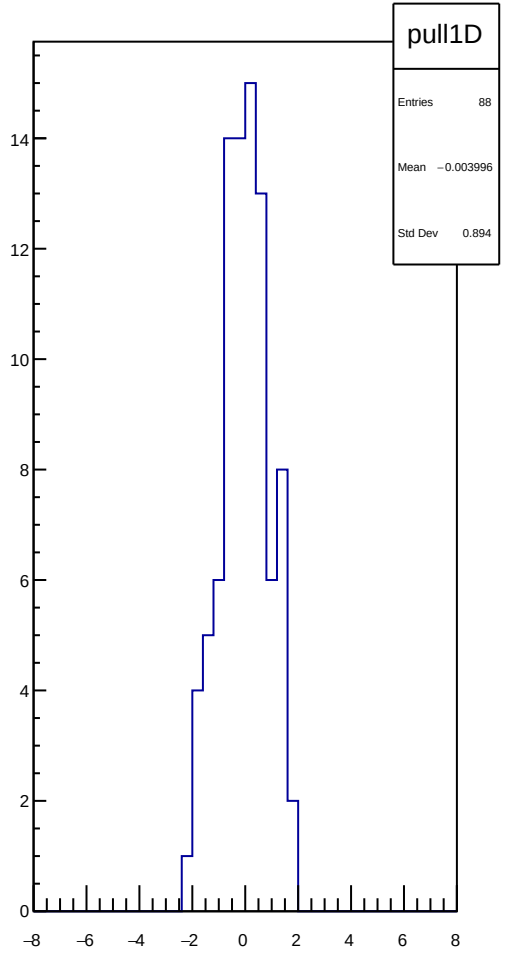

dit_asym_atr_avg_rms vs run
χ² / ndf 1.526e+04 / 87
p0 1982 ± 1.529
6000
5500
5000
4500
4000
3500
3000
2500
2000

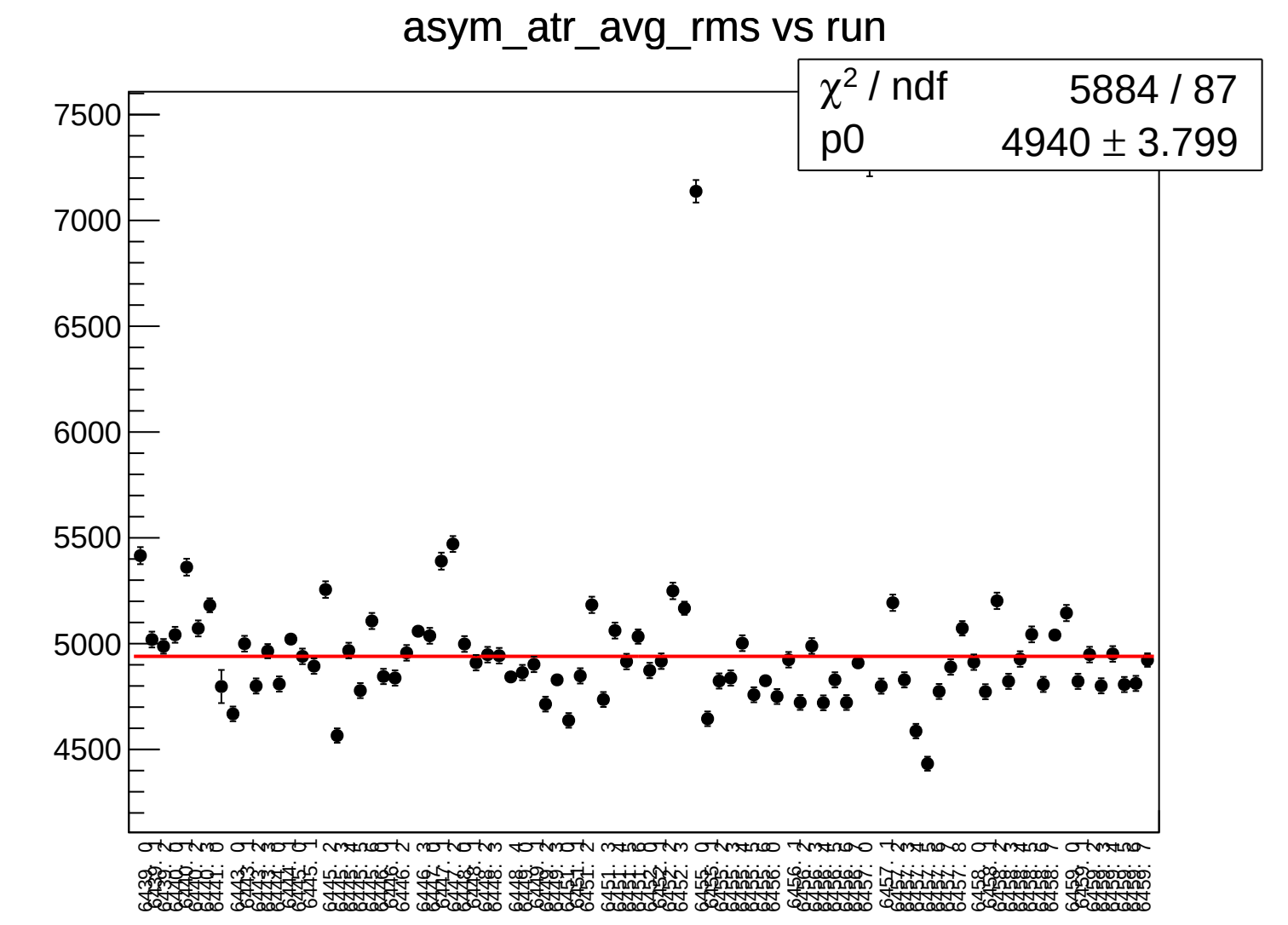

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 70.04 / 87
p0 −6386 ± 4931
pull
Entries 88
Mean −304.5
Std Dev 360.4

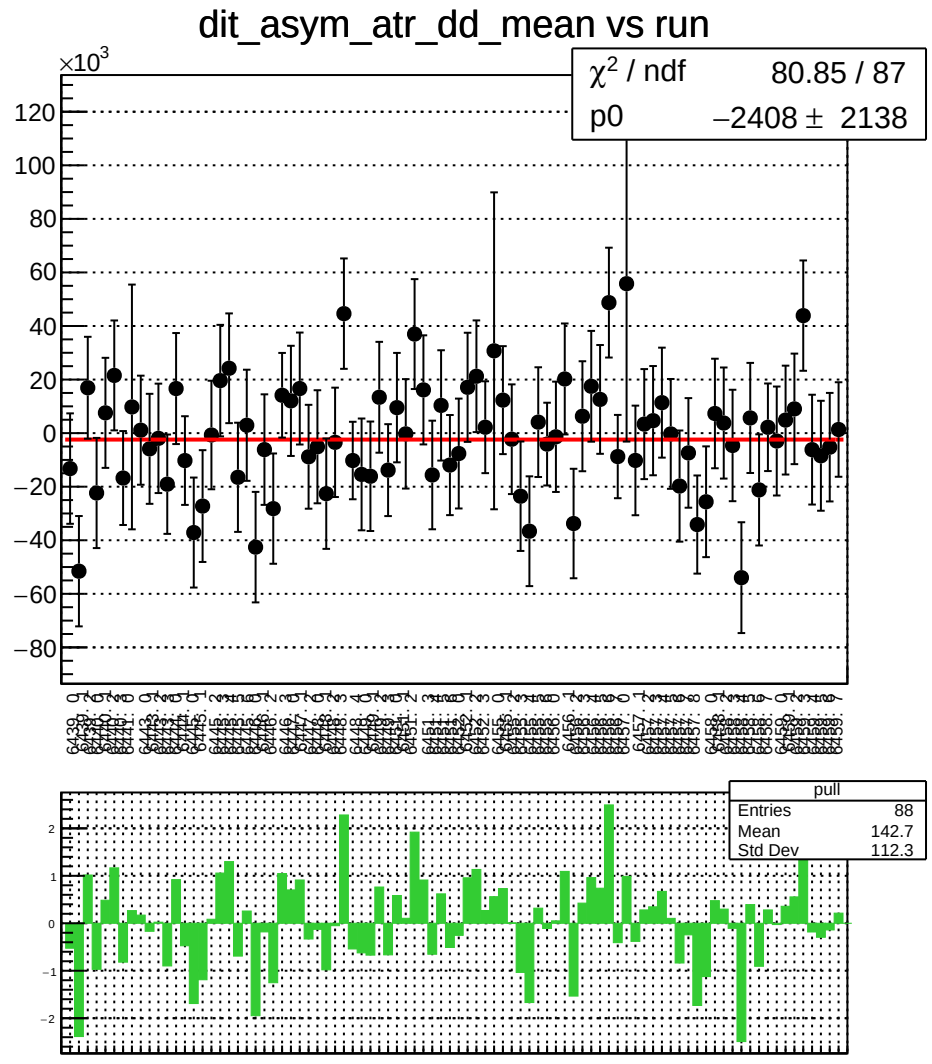

pull1D
Entries 88
Mean −0.004943
Std Dev 0.8922

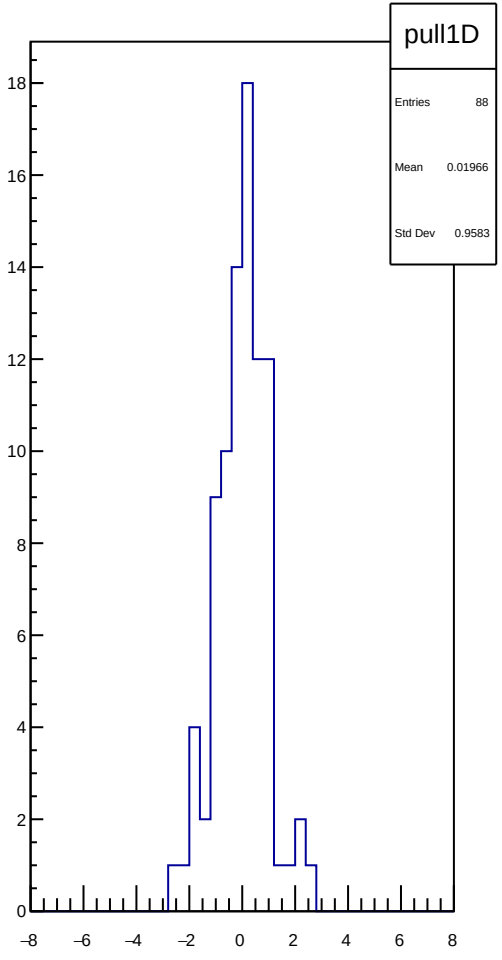

asym_atr_avg_correction_rms vs run
χ^2 / ndf 3063 / 87
p0 4538 ± 3.487
5200
5000
4800
4600
4400
4200
4000

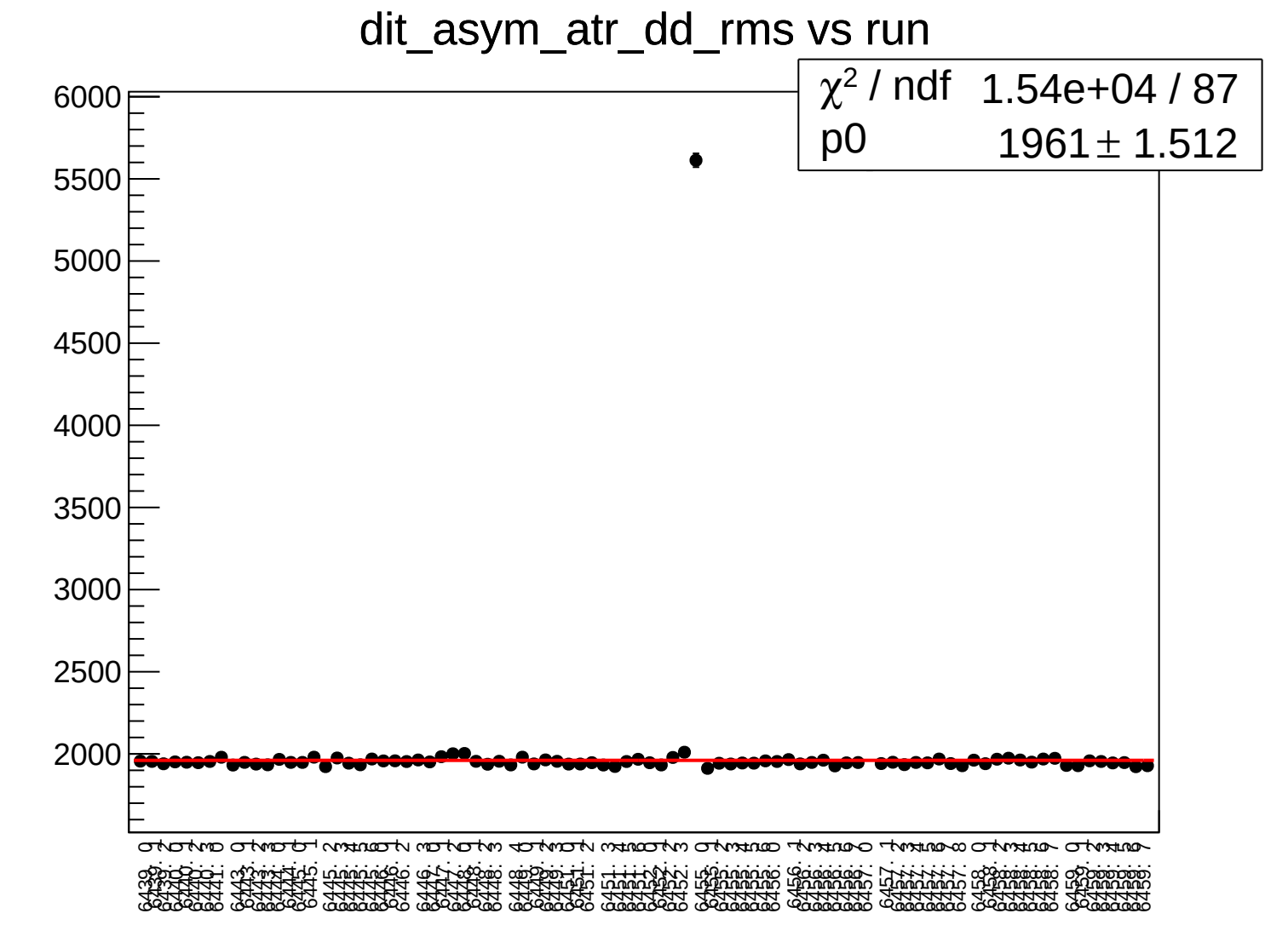

asym_atr_avg_mean vs run
×10^3
χ² / ndf 70.34 / 87
p0 8518 ± 5372
100
0
−100
−200
−300
−400
pull
Entries 88
Mean 143.7
Std Dev 52.32
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

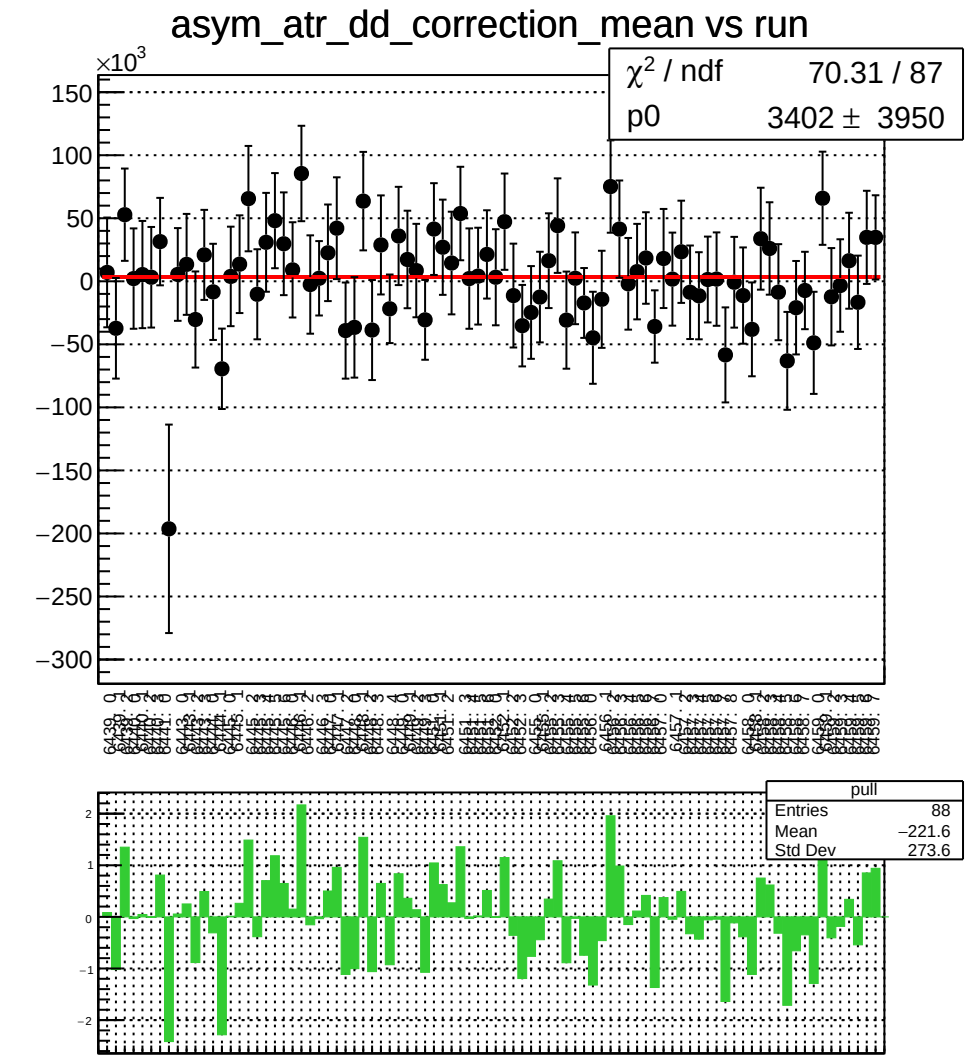

pull1D
Entries 88
Mean −0.003996
Std Dev 0.894
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

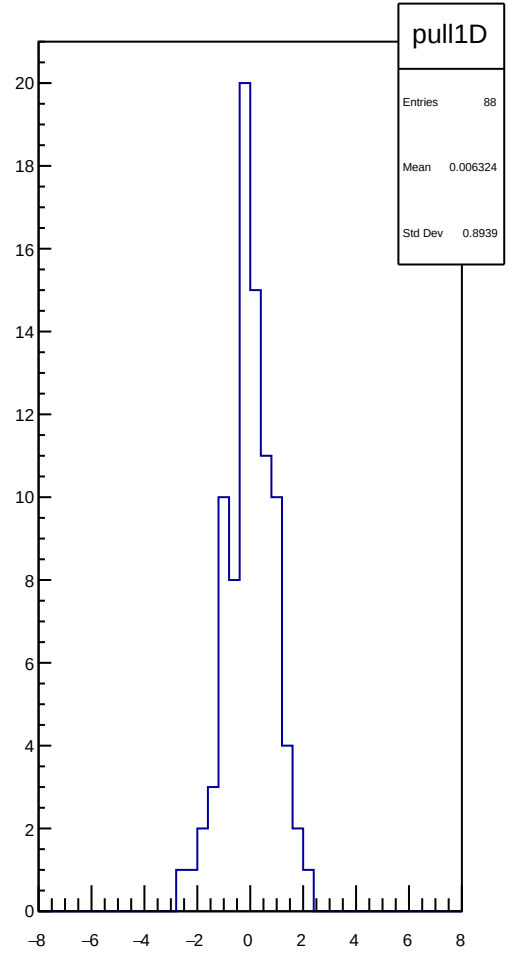

asym_atr_avg_rms vs run
χ² / ndf 5884 / 87
p0 4940 ± 3.799
7500
7000
6500
6000
5500
5000
4500

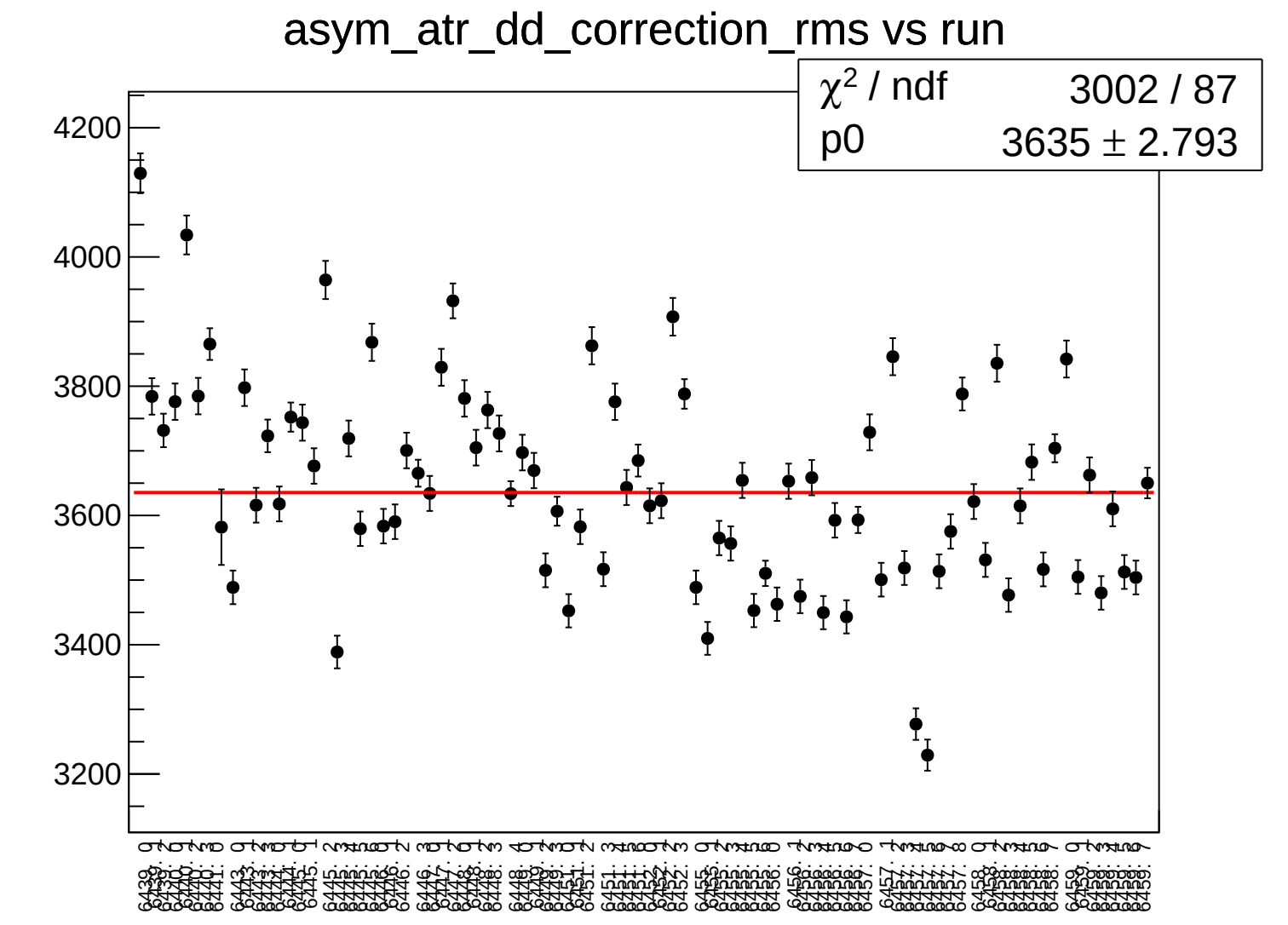

dit_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 80.85 / 87
p0 −2408 ± 2138
pull
Entries 88
Mean 142.7
Std Dev 112.3

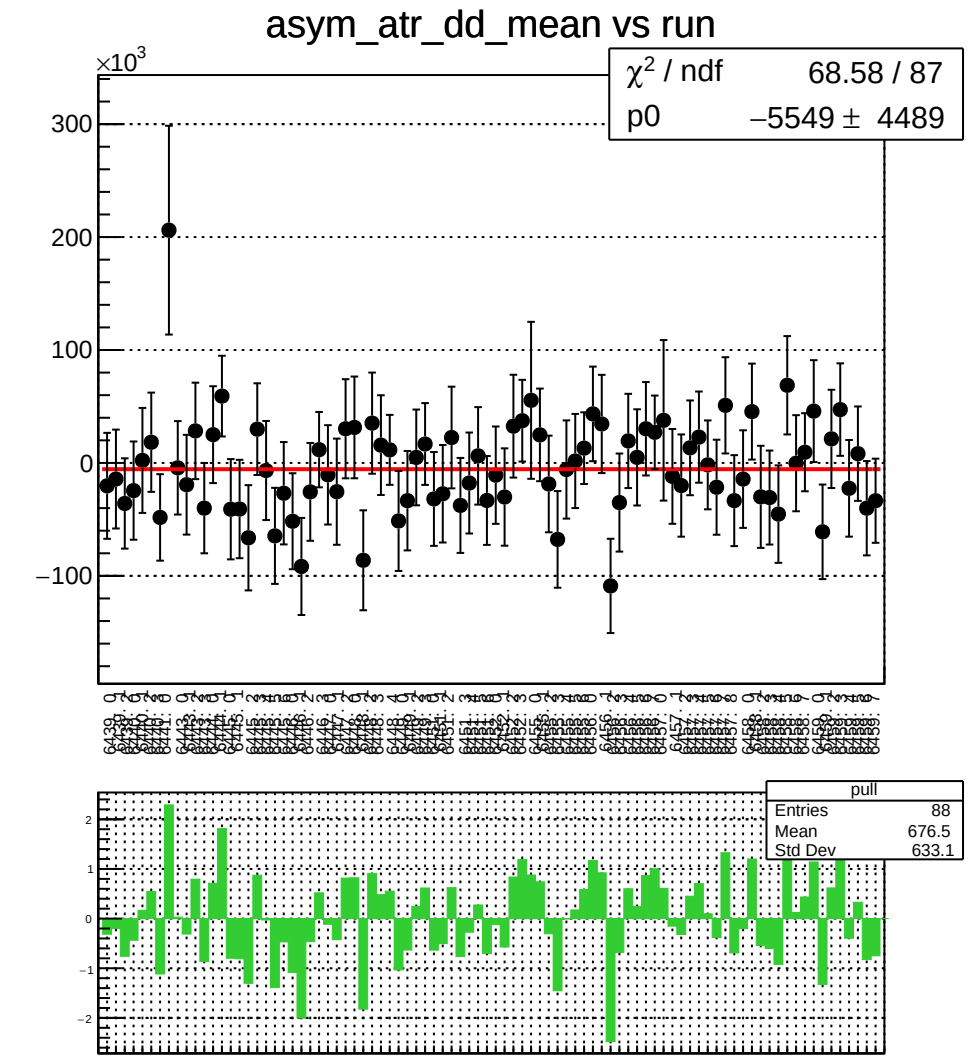

pull1D
Entries 88
Mean 0.01966
Std Dev 0.9583

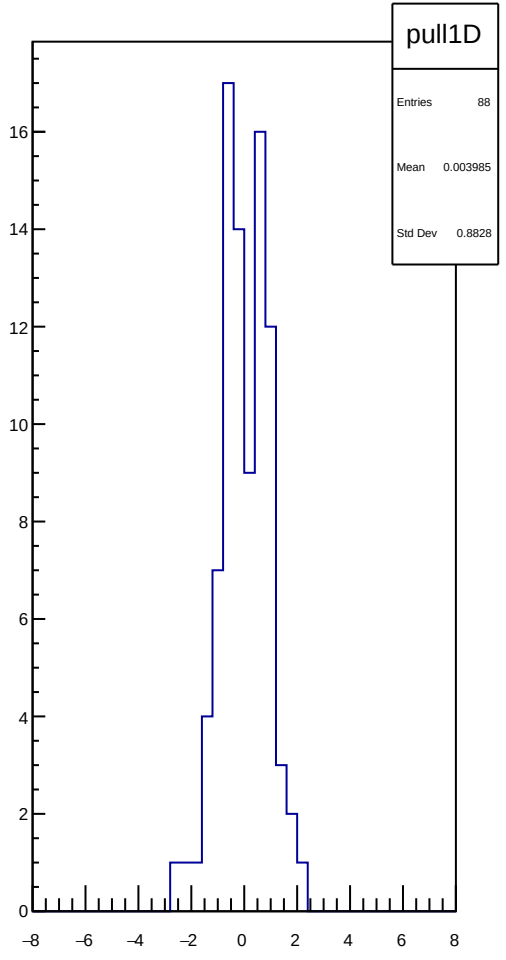

dit_asym_atr_dd_rms vs run
χ² / ndf 1.54e+04 / 87
p0 1961 ± 1.512
6000
5500
5000
4500
4000
3500
3000
2500
2000

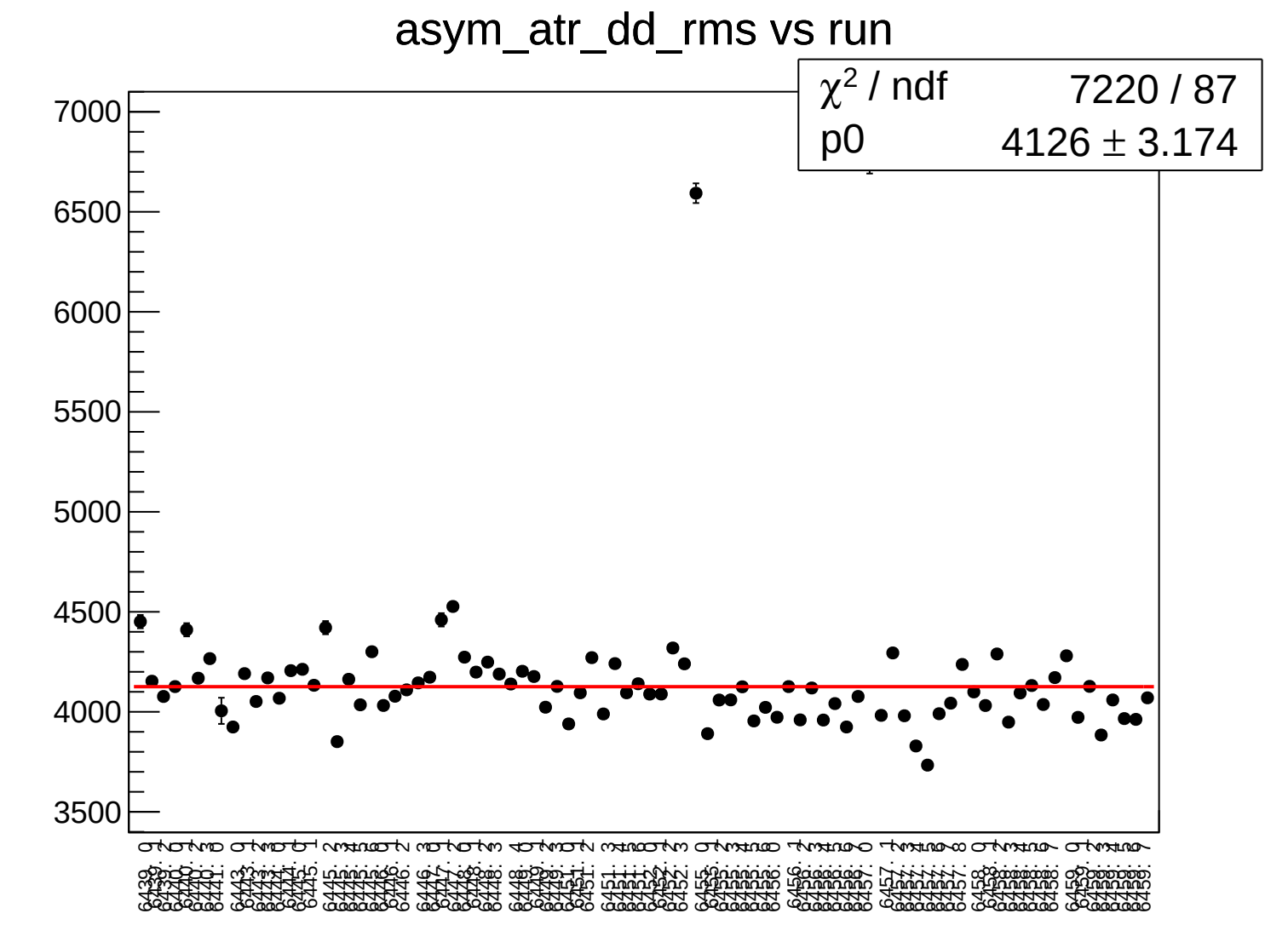

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 70.31 / 87
p0 3402 ± 3950
pull
Entries 88
Mean −221.6
Std Dev 273.6

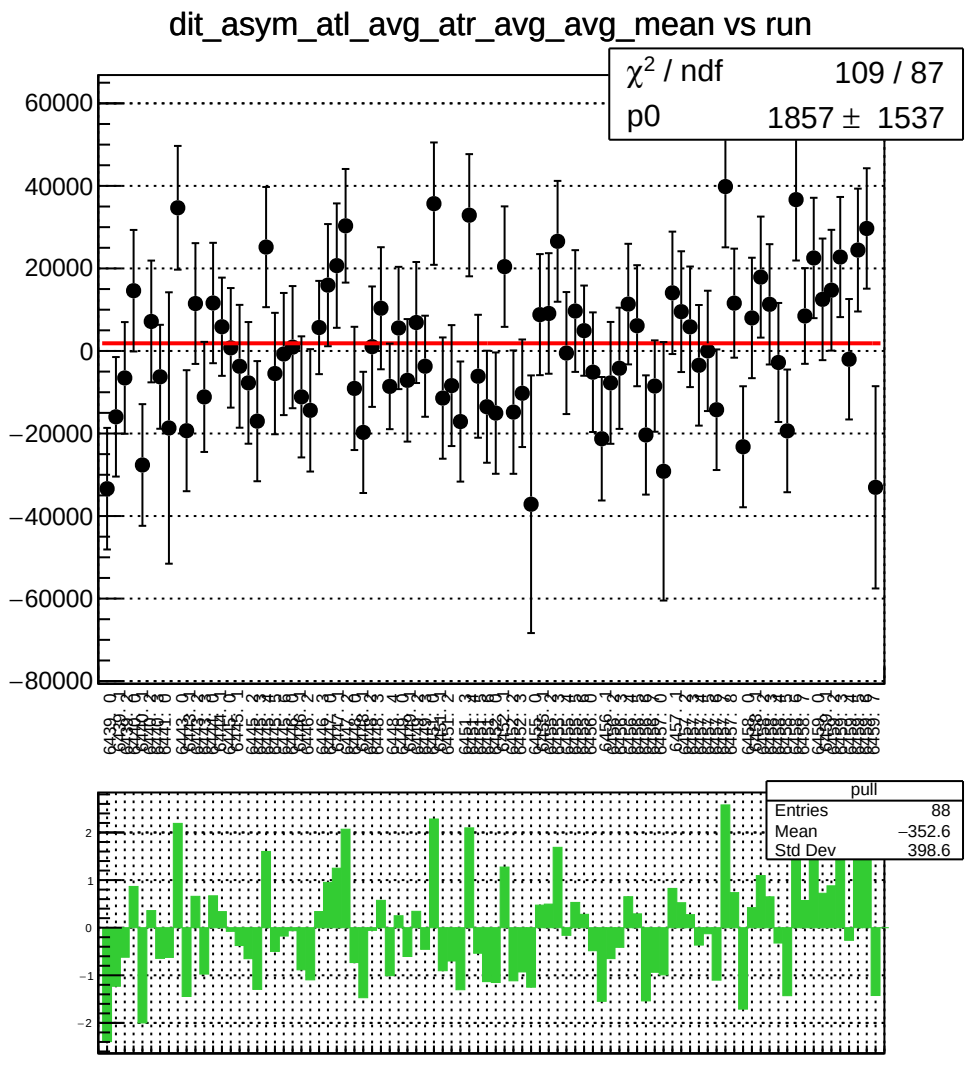

pull1D
Entries 88
Mean 0.006324
Std Dev 0.8939

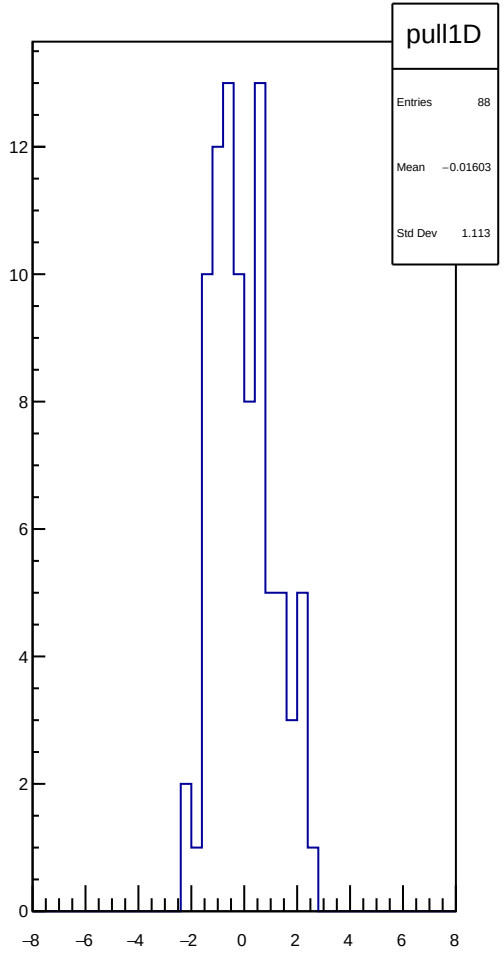

asym_atr_dd_correction_rms vs run
χ^2 / ndf 3002 / 87
p0 3635 ± 2.793
4200
4000
3800
3600
3400
3200

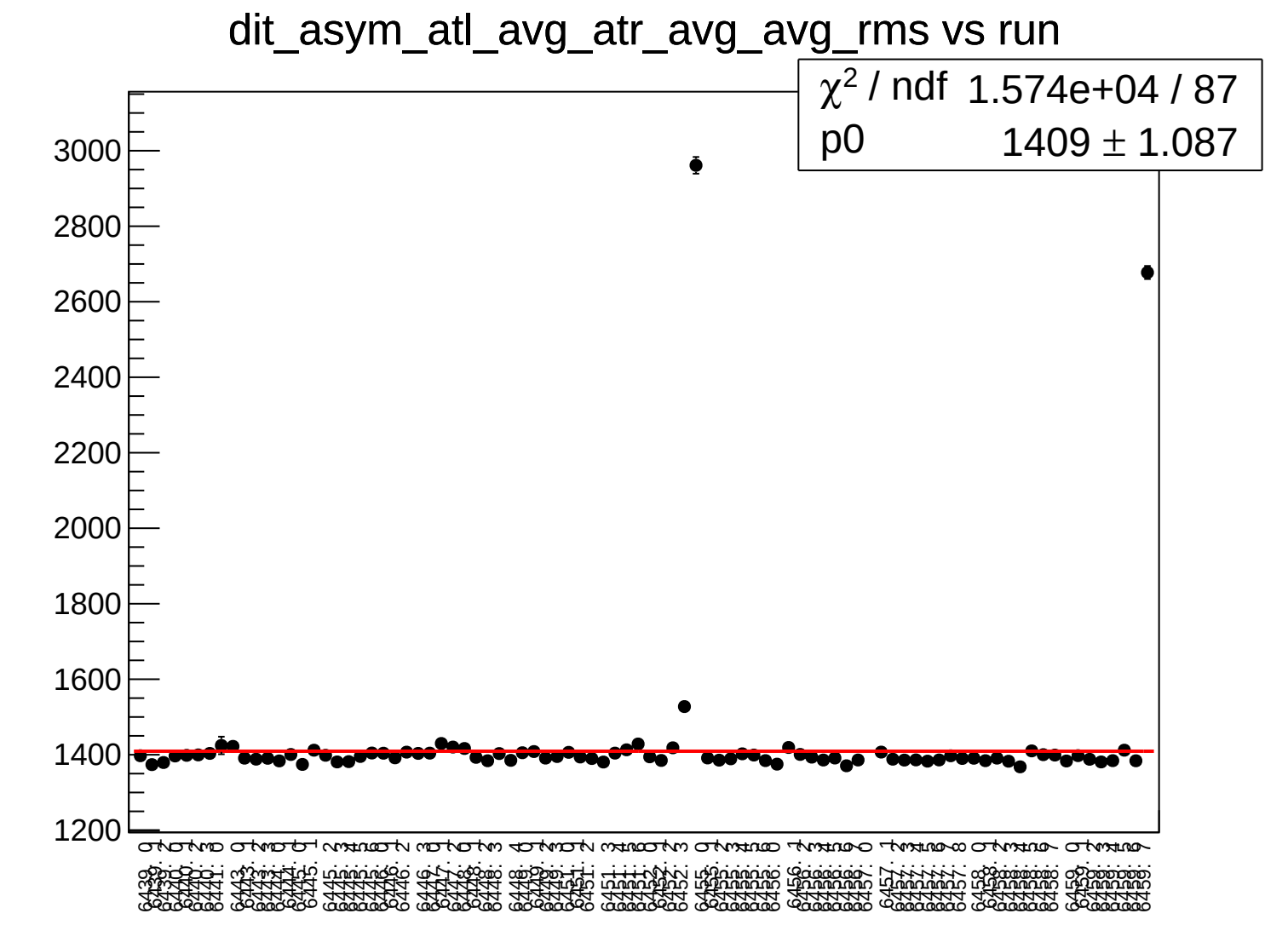

asym_atr_dd_mean vs run
×10^3
χ² / ndf 68.58 / 87
p0 −5549 ± 4489
300
200
100
0
−100
pull
Entries 88
Mean 676.5
Std Dev 633.1
2
1
0
−1
−2

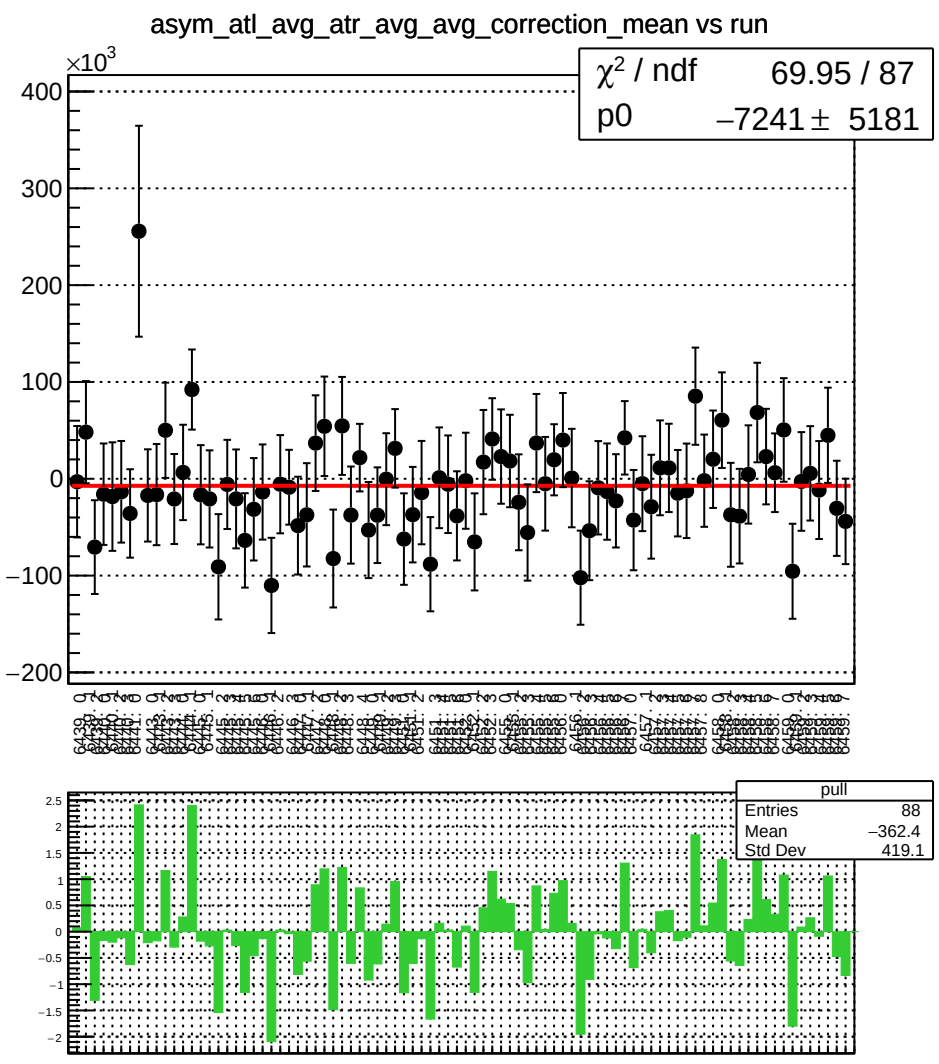

pull1D
Entries 88
Mean 0.003985
Std Dev 0.8828
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

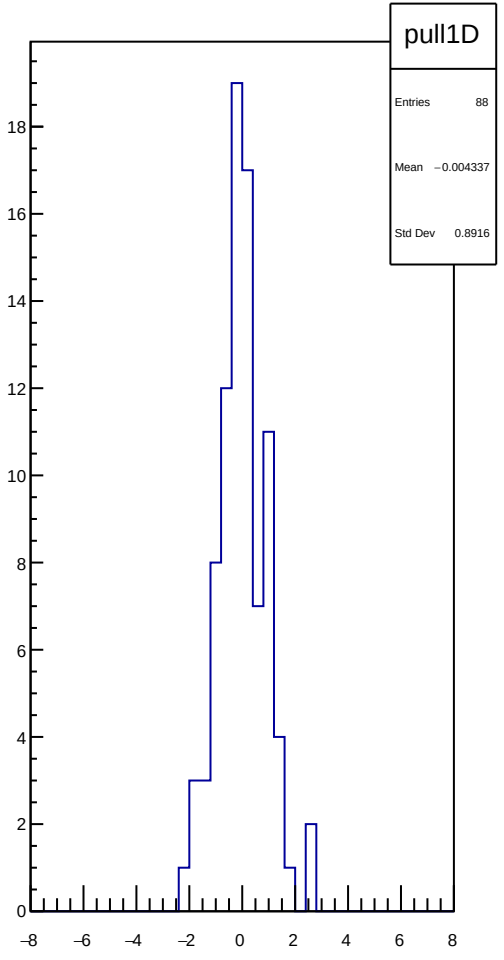

asym_atr_dd_rms vs run
χ^2 / ndf 7220 / 87
p0 4126 ± 3.174
7000
6500
6000
5500
5000
4500
4000
3500

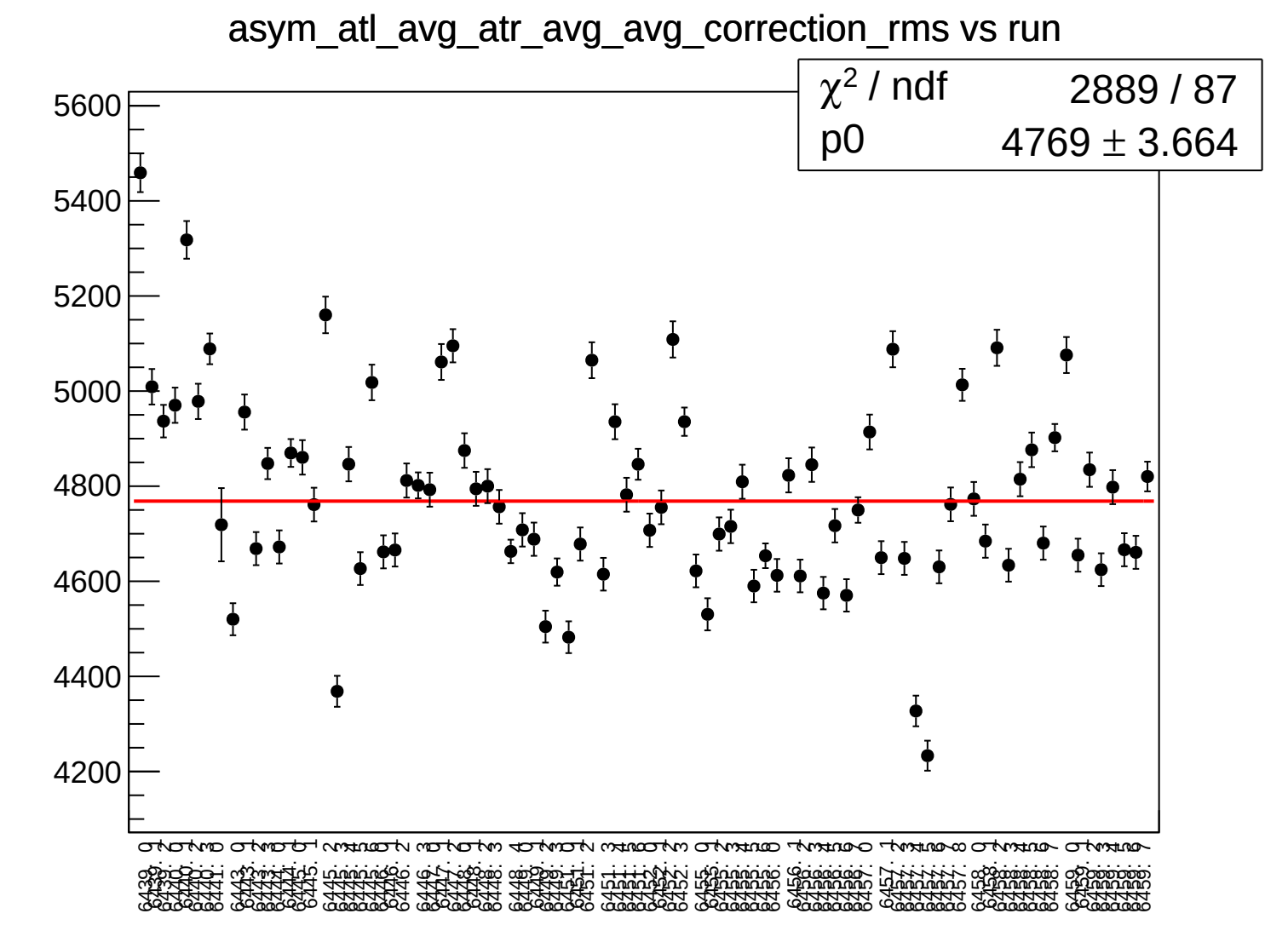

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 109 / 87
p0 1857 ± 1537
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −352.6
Std Dev 398.6
2
1
0
−1
−2

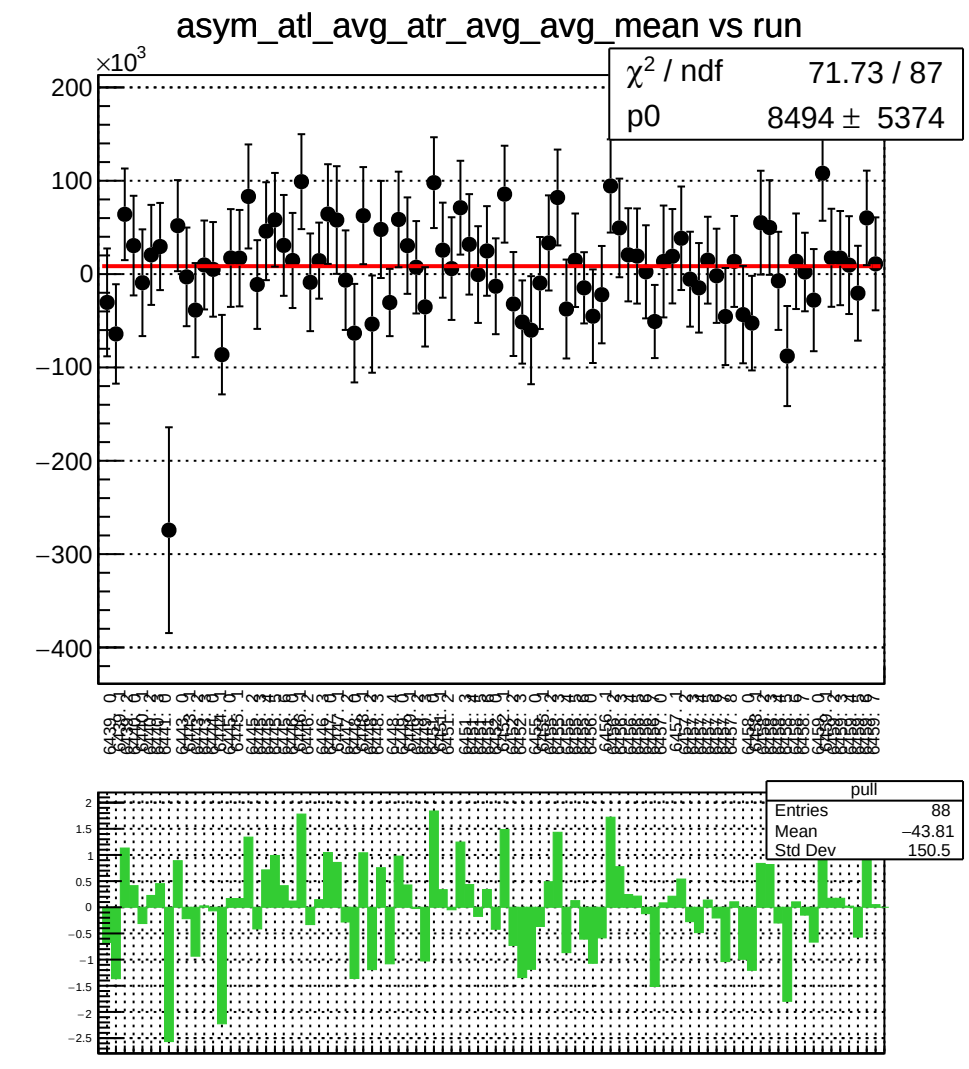

pull1D
Entries 88
Mean −0.01603
Std Dev 1.113
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

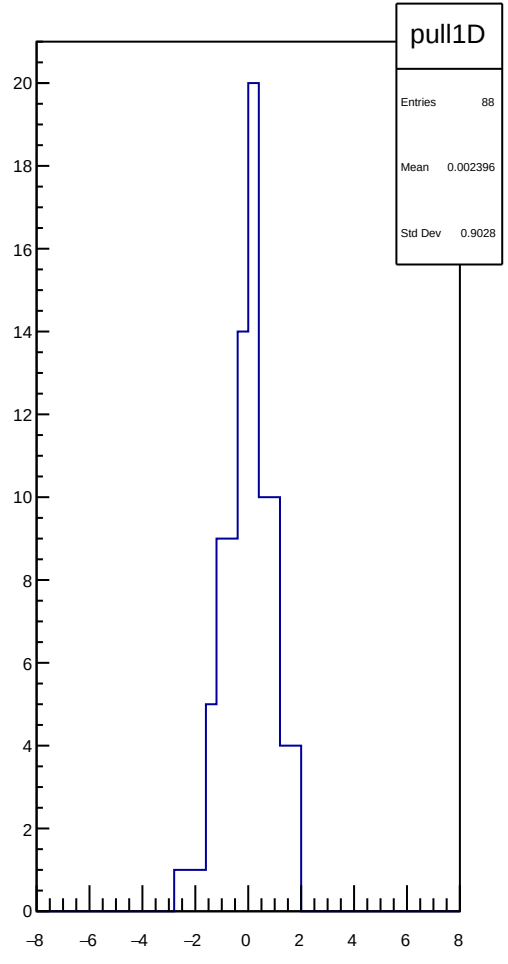

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.574e+04 / 87
p0 1409 ± 1.087
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

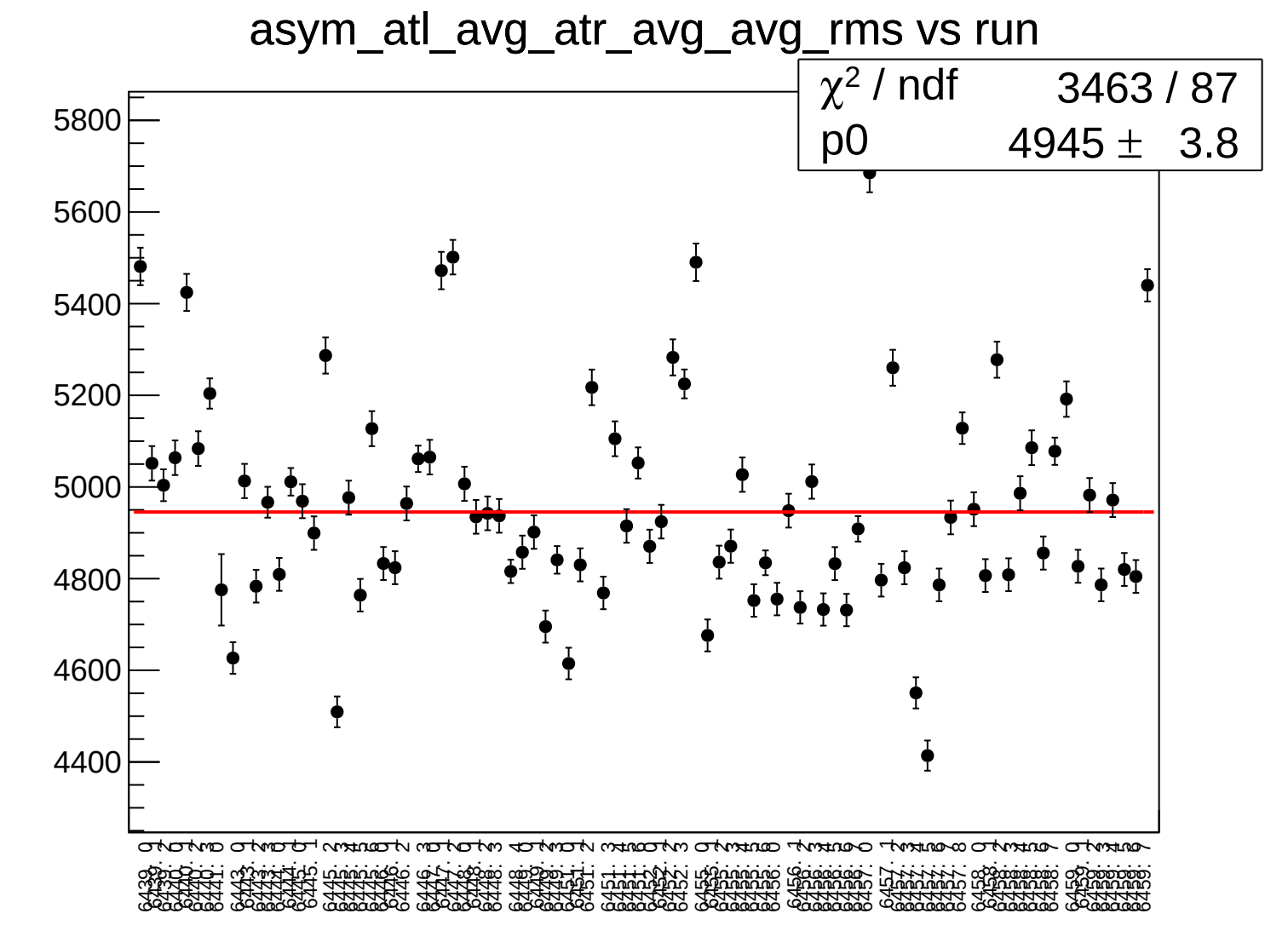

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 69.95 / 87
p0 −7241 ± 5181
pull
Entries 88
Mean −362.4
Std Dev 419.1

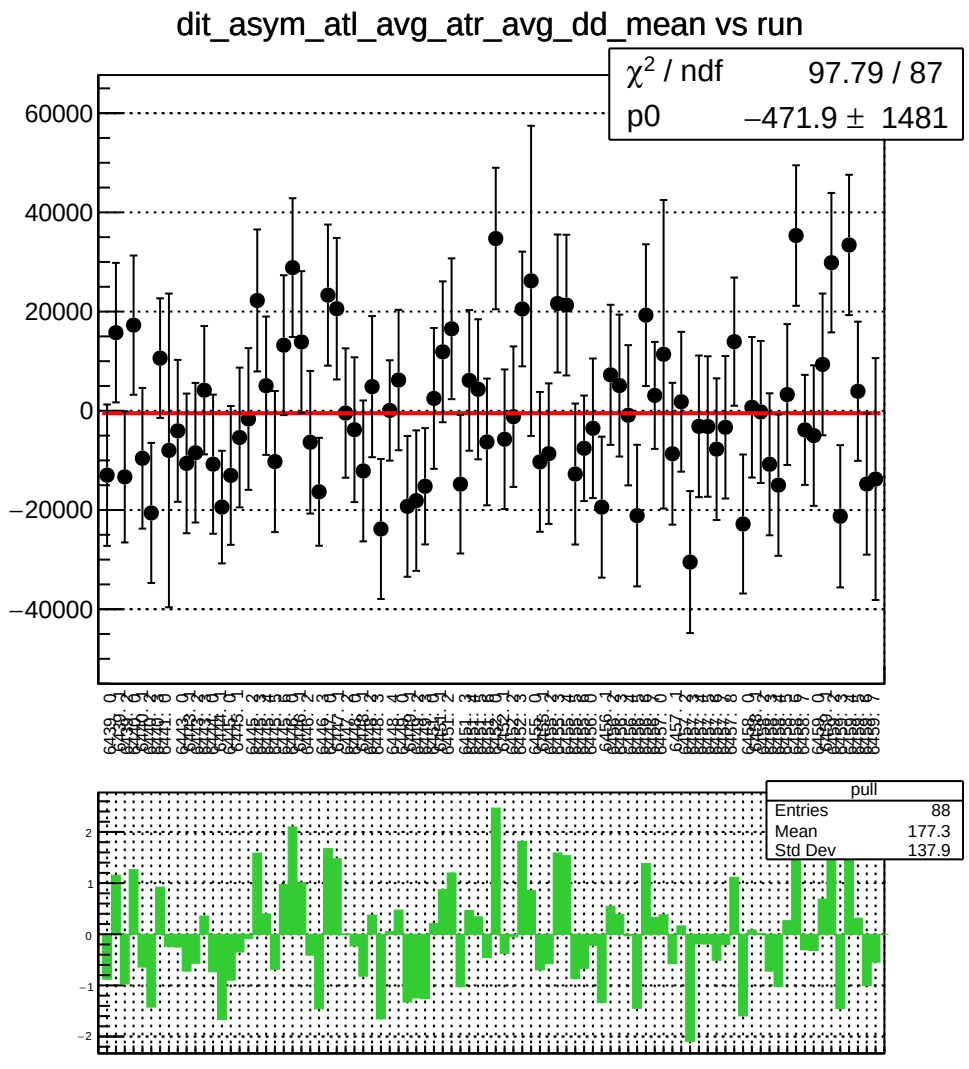

pull1D
Entries 88
Mean −0.004337
Std Dev 0.8916

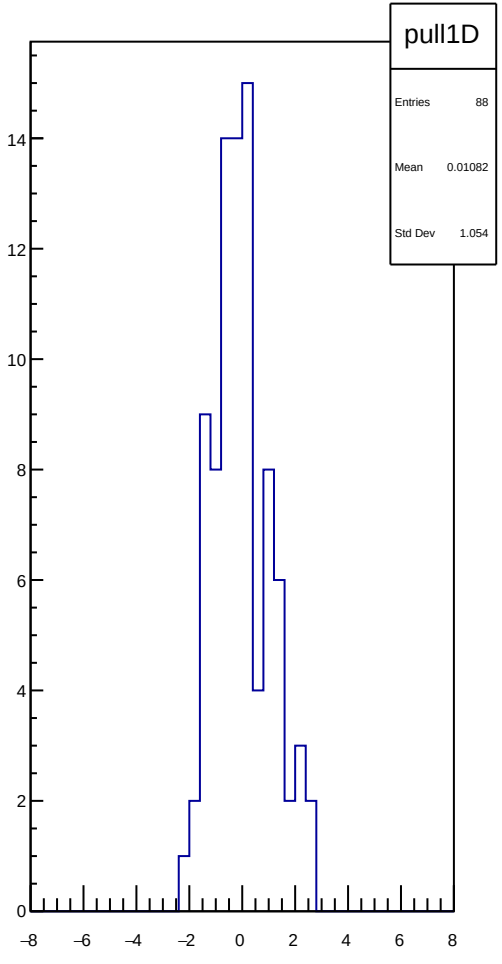

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ^2 / ndf 2889 / 87
p0 4769 ± 3.664
5600
5400
5200
5000
4800
4600
4400
4200

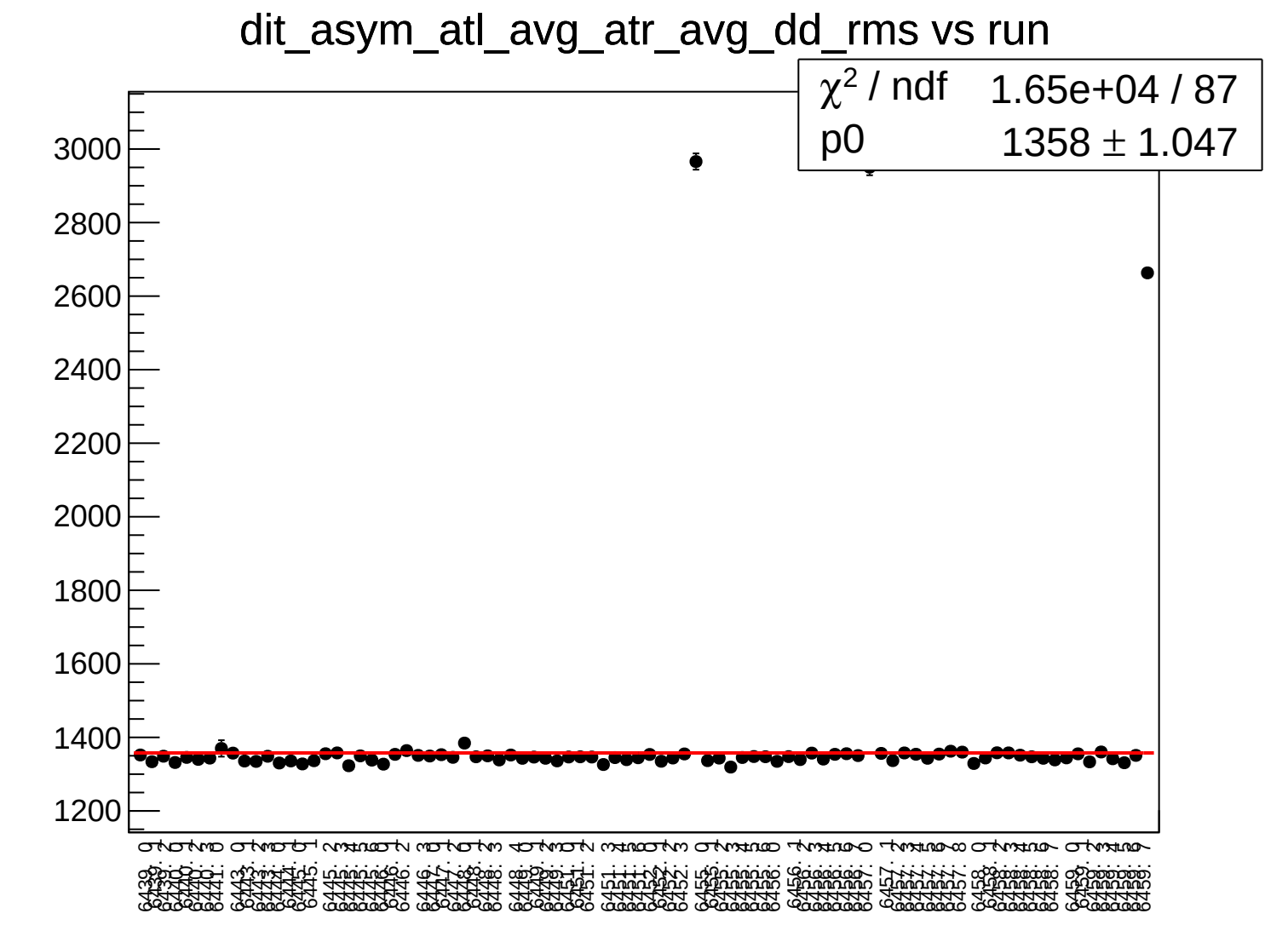

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 71.73 / 87
p0 8494 ± 5374
pull
Entries 88
Mean −43.81
Std Dev 150.5

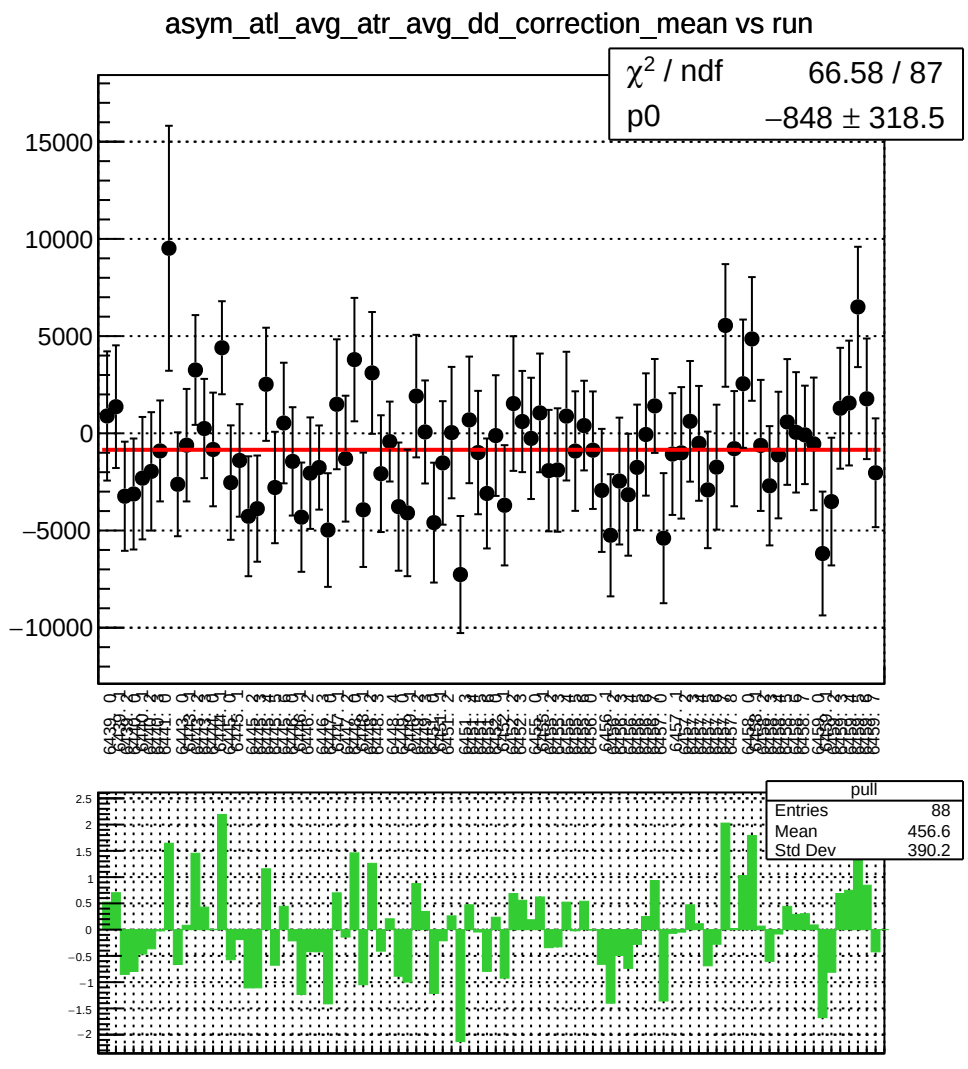

pull1D
Entries 88
Mean 0.002396
Std Dev 0.9028

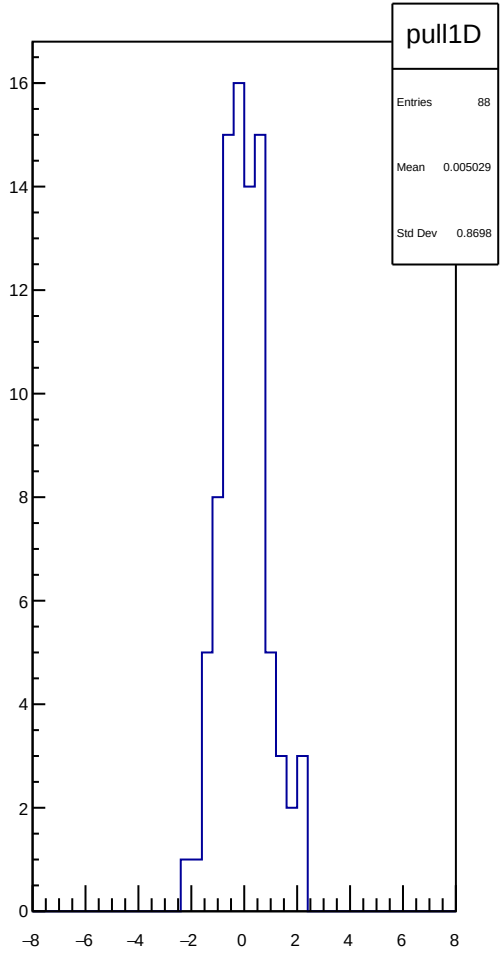

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3463 / 87
p0 4945 ± 3.8
5800
5600
5400
5200
5000
4800
4600
4400

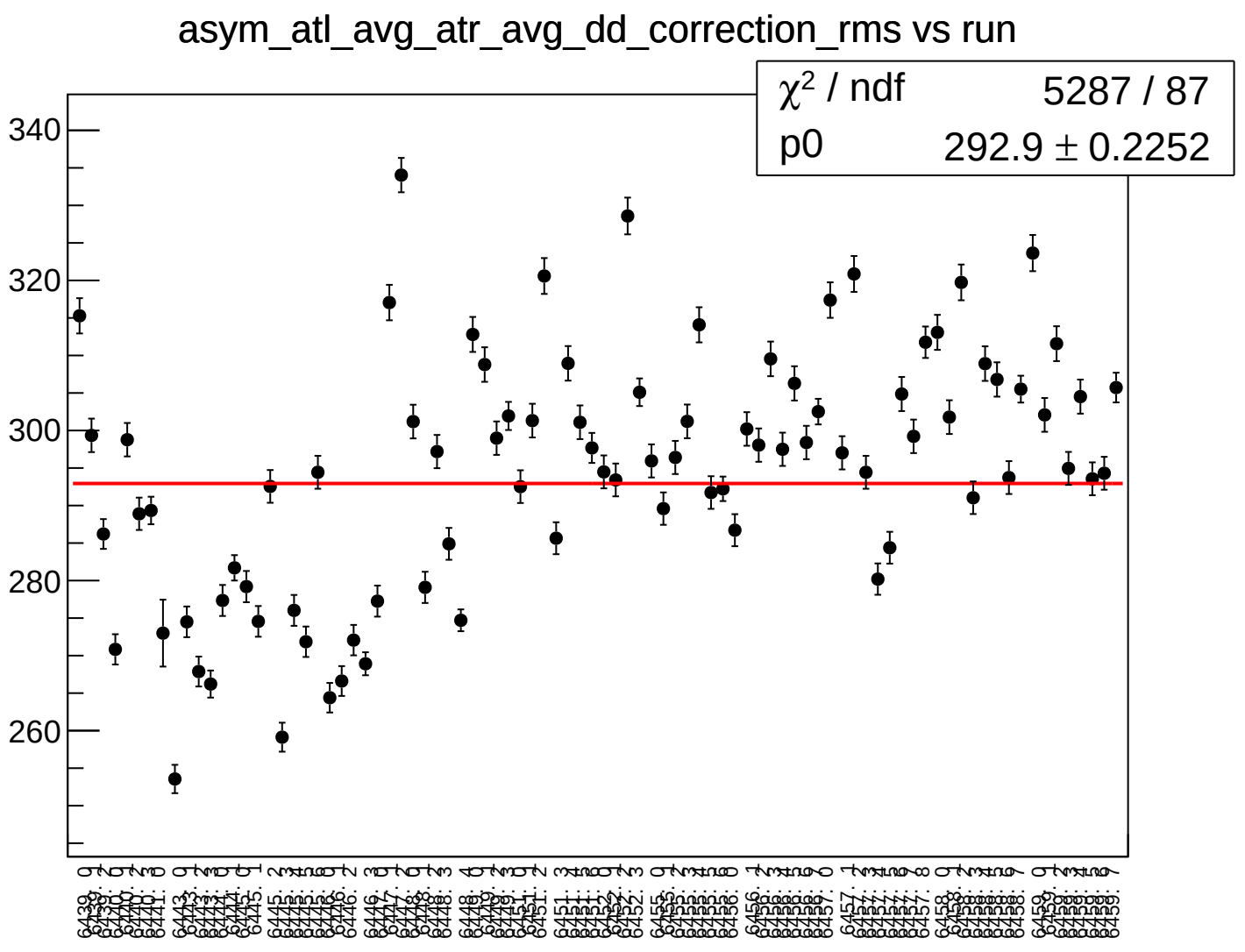

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 97.79 / 87
p0 −471.9 ± 1481
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 177.3
Std Dev 137.9
2
1
0
−1
−2

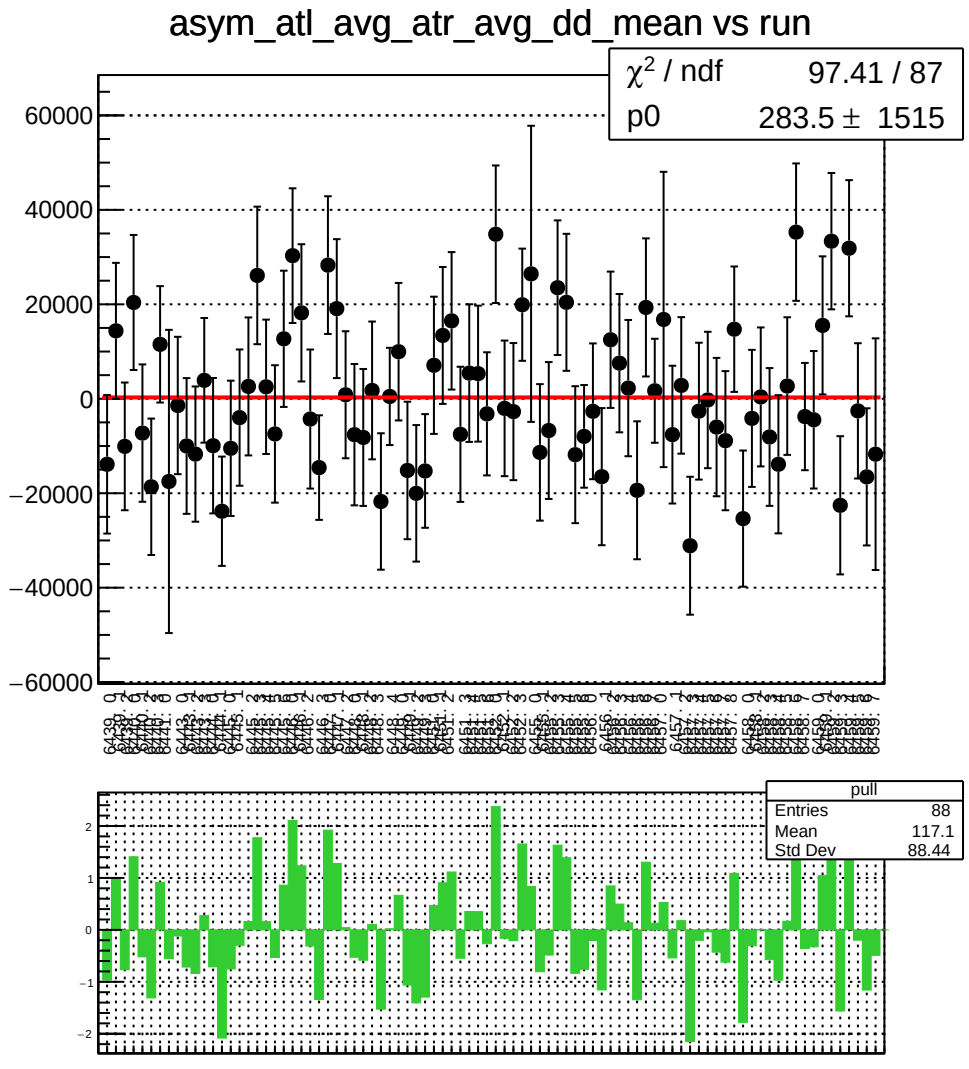

pull1D
Entries 88
Mean 0.01082
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

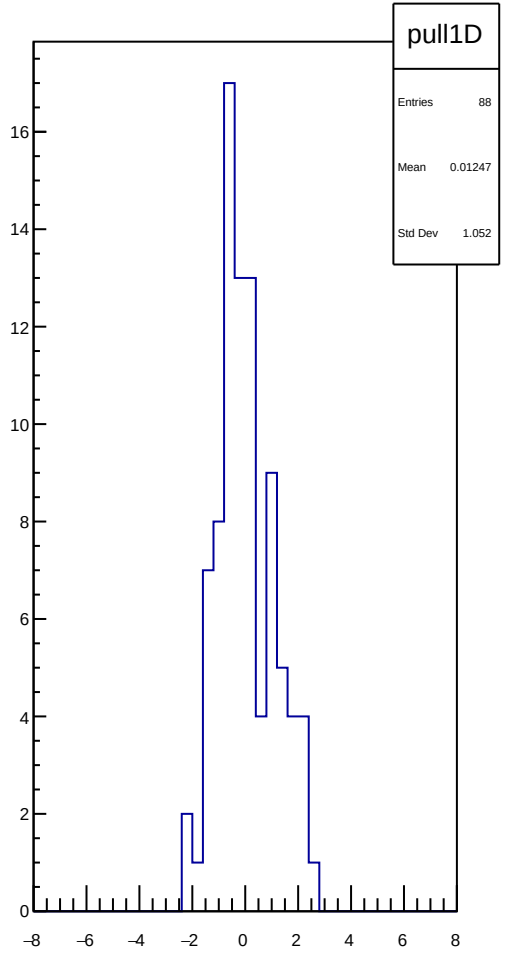

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.65e+04 / 87
p0 1358 ± 1.047
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

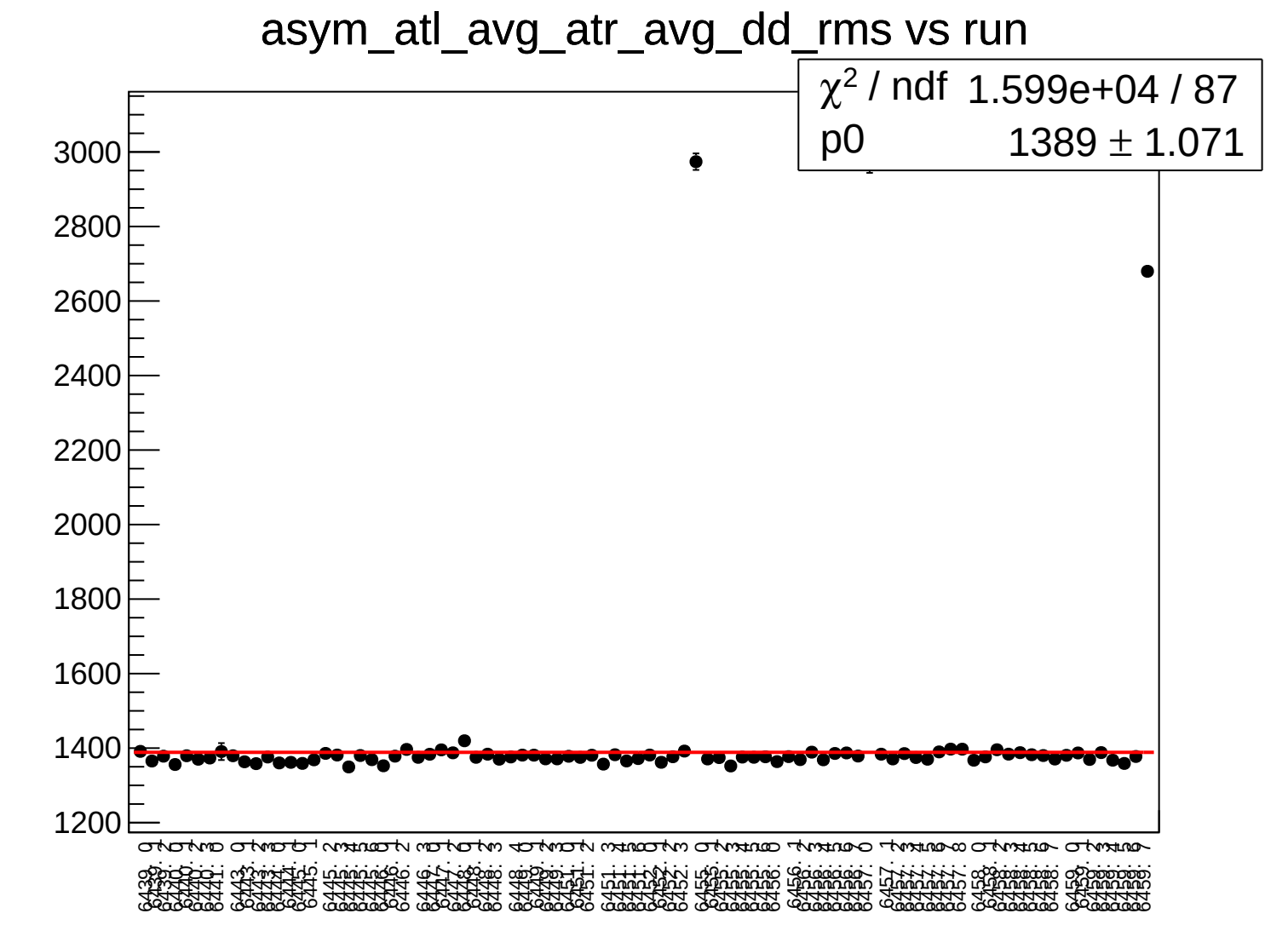

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 66.58 / 87
p0 −848 ± 318.5
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 456.6
Std Dev 390.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

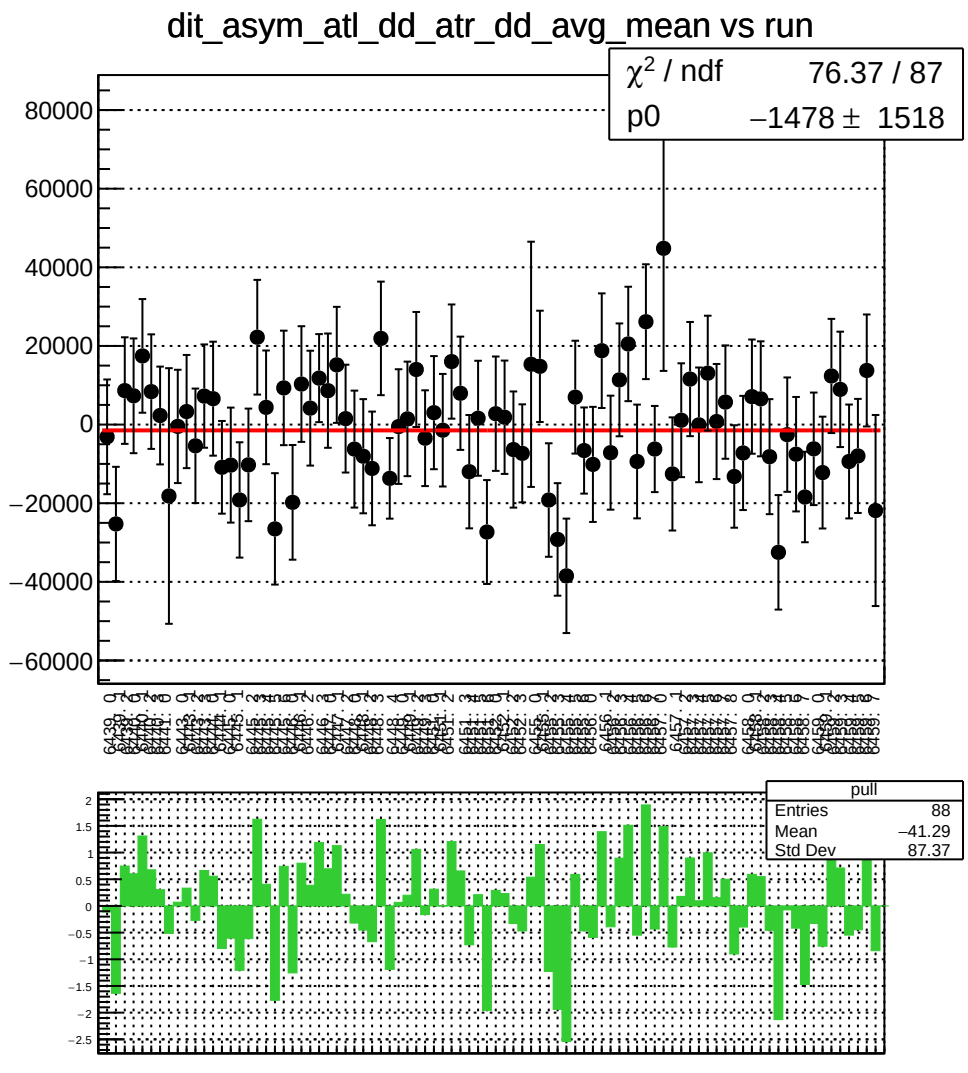

pull1D
Entries 88
Mean 0.005029
Std Dev 0.8698
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

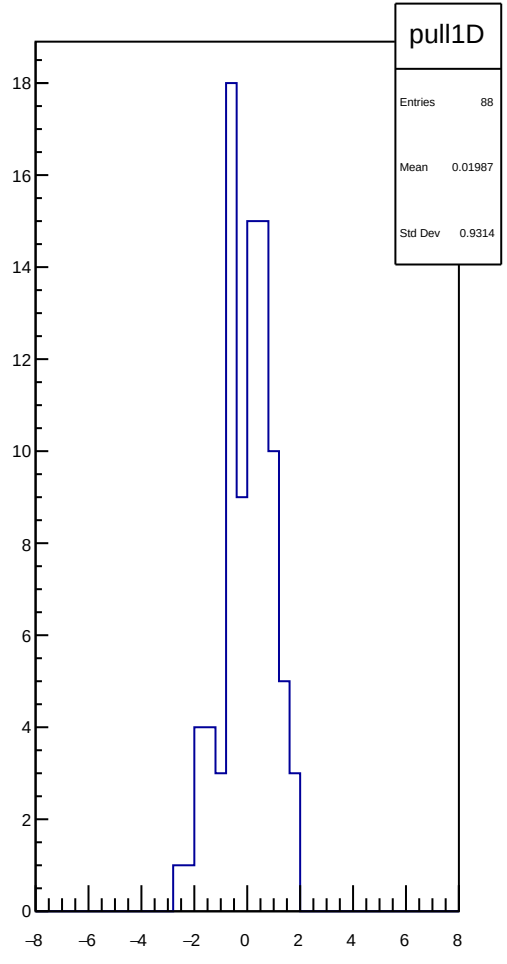

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 5287 / 87
p0 292.9 ± 0.2252
340
320
300
280
260

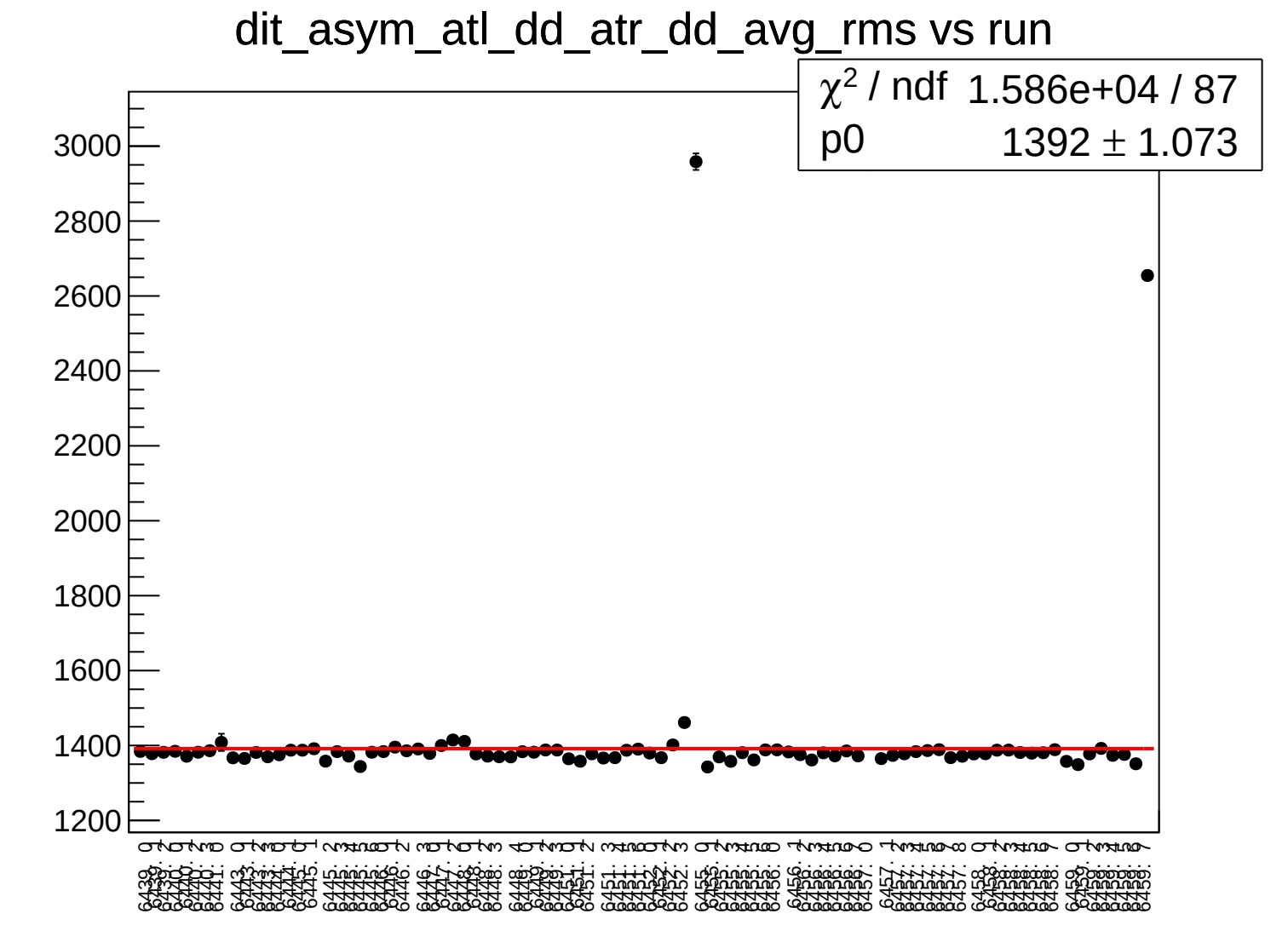

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 97.41 / 87
p0 283.5 ± 1515
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 117.1
Std Dev 88.44
2
1
0
−1
−2

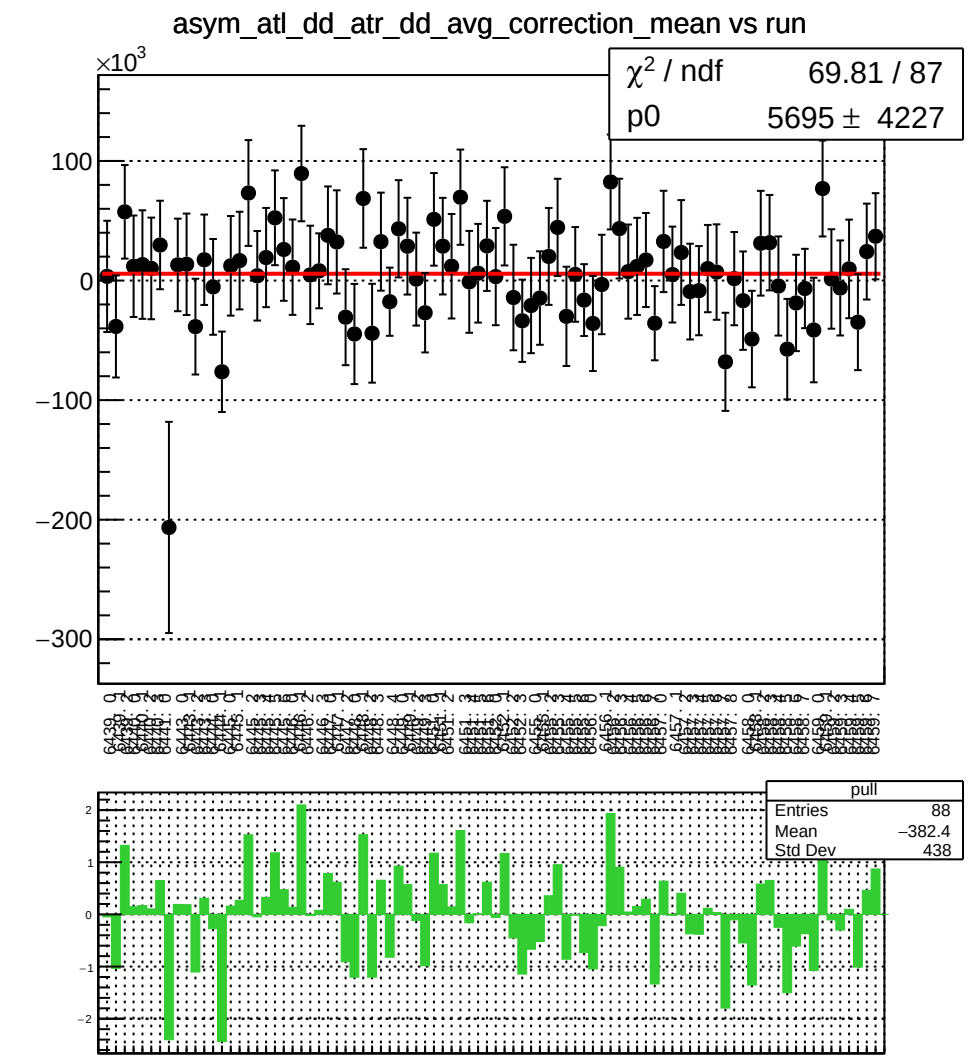

pull1D
Entries 88
Mean 0.01247
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

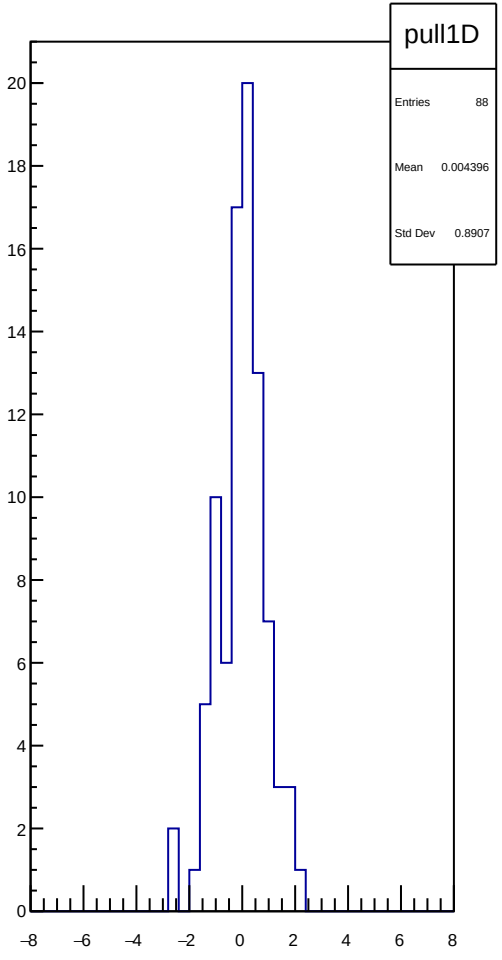

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.599e+04 / 87
p0 1389 ± 1.071
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

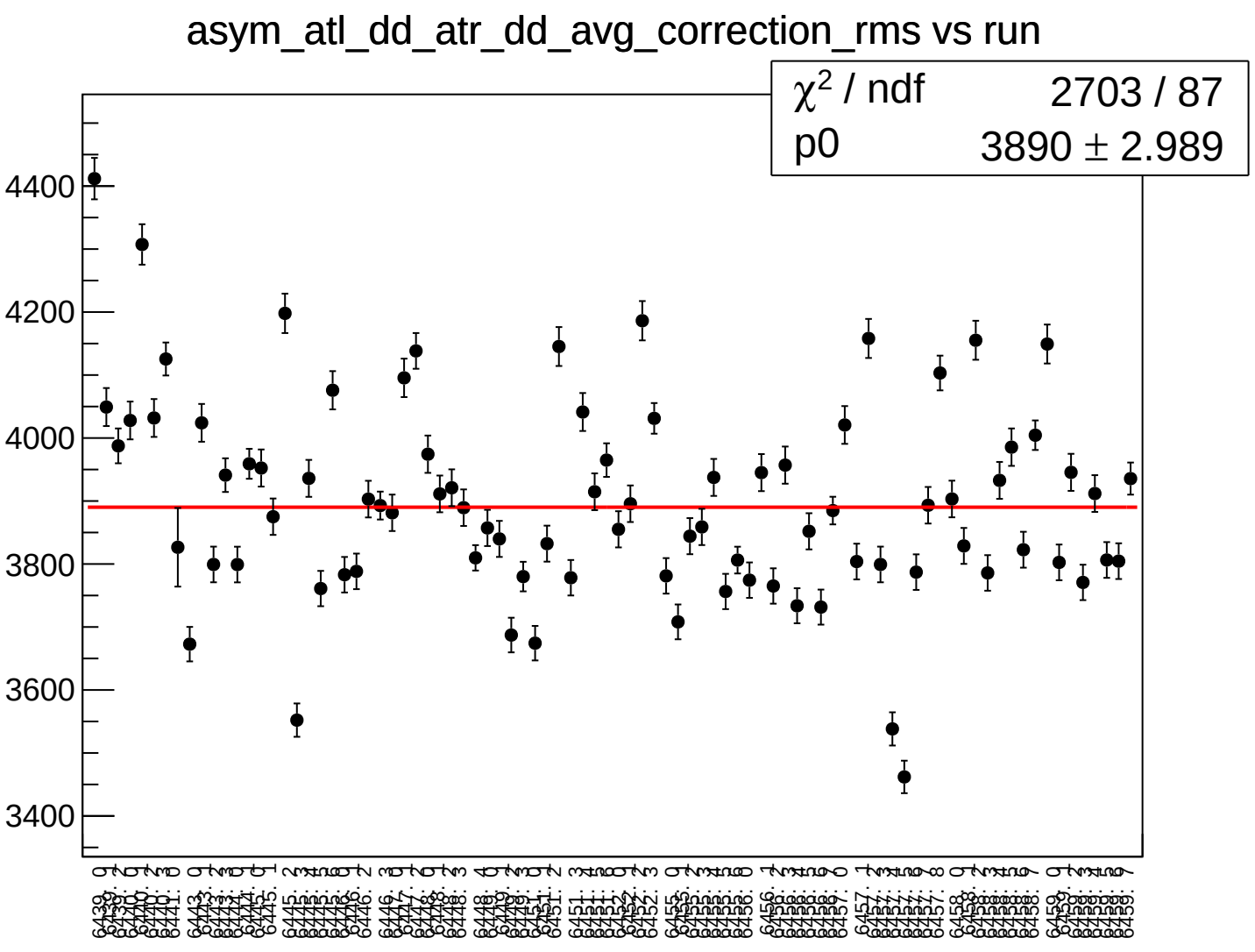

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 76.37 / 87
p0 −1478 ± 1518
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −41.29
Std Dev 87.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

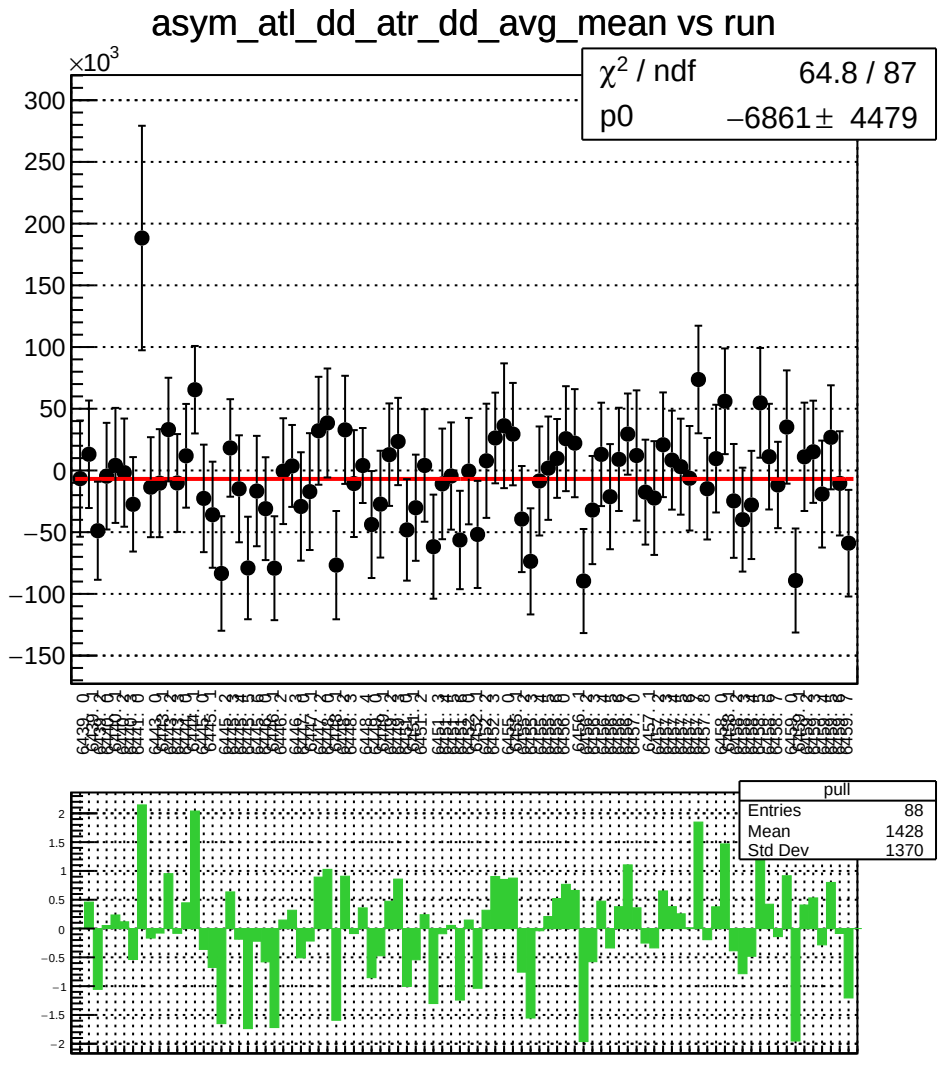

pull1D
Entries 88
Mean 0.01987
Std Dev 0.9314
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

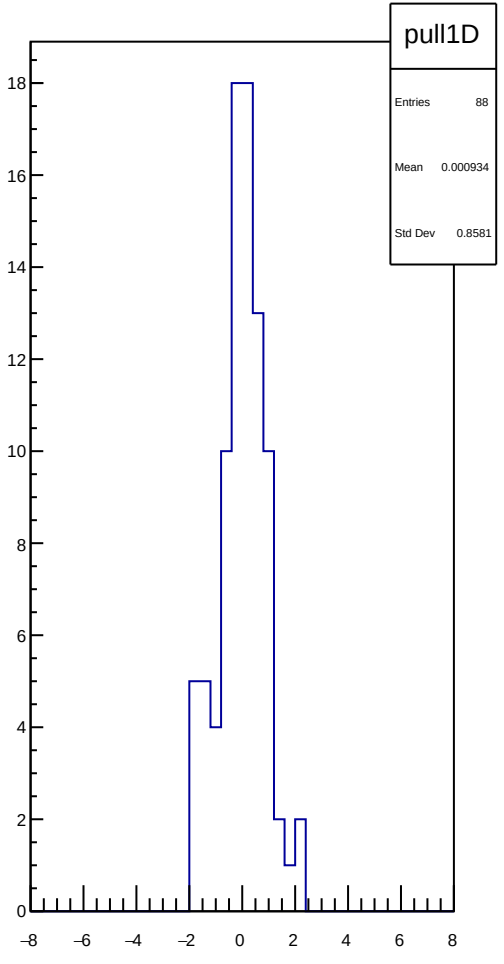

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.586e+04 / 87
p0 1392 ± 1.073
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

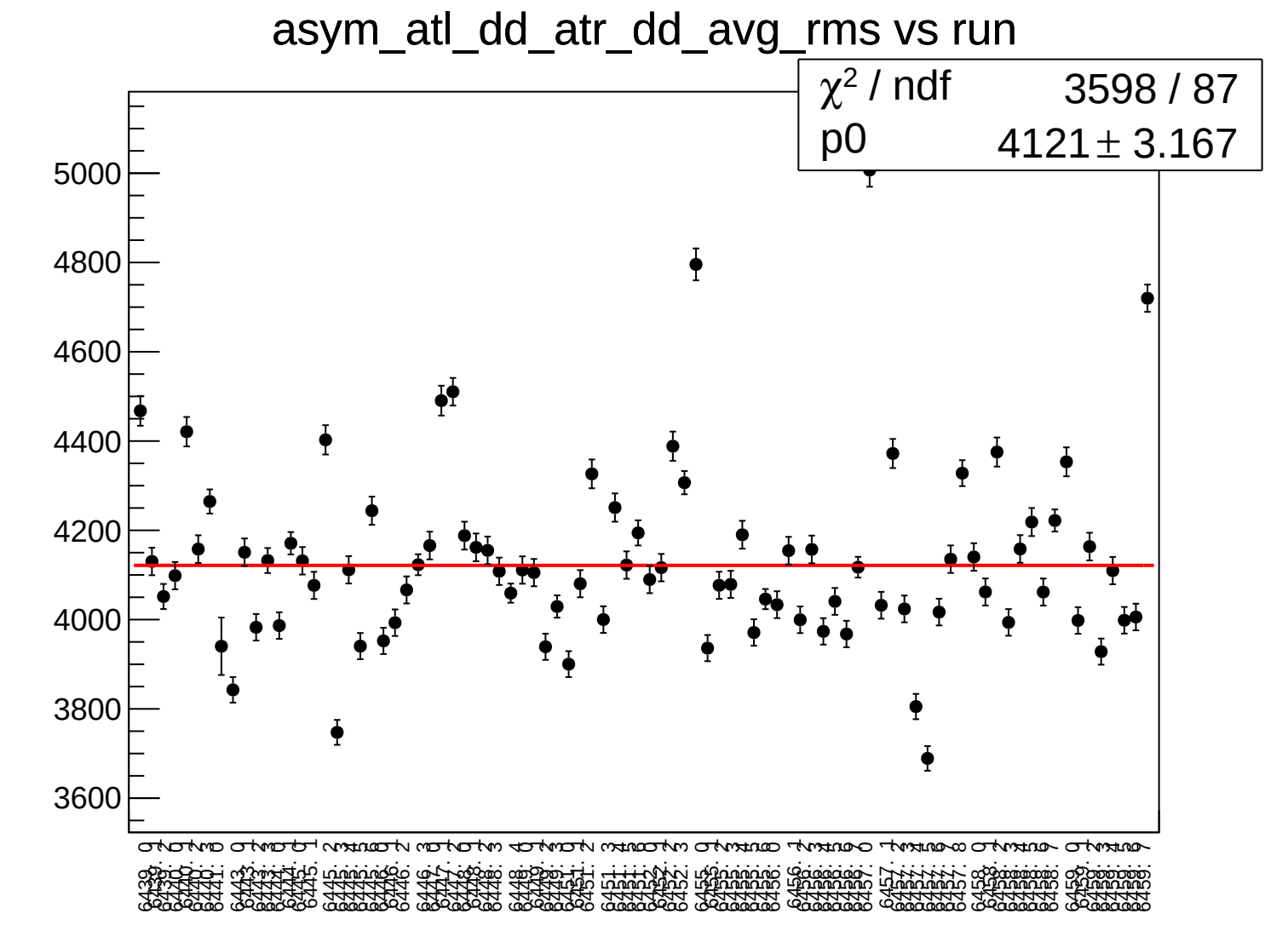

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 69.81 / 87
p0 5695 ± 4227
100
0
−100
−200
−300
pull
Entries 88
Mean −382.4
Std Dev 438
2
1
0
−1
−2

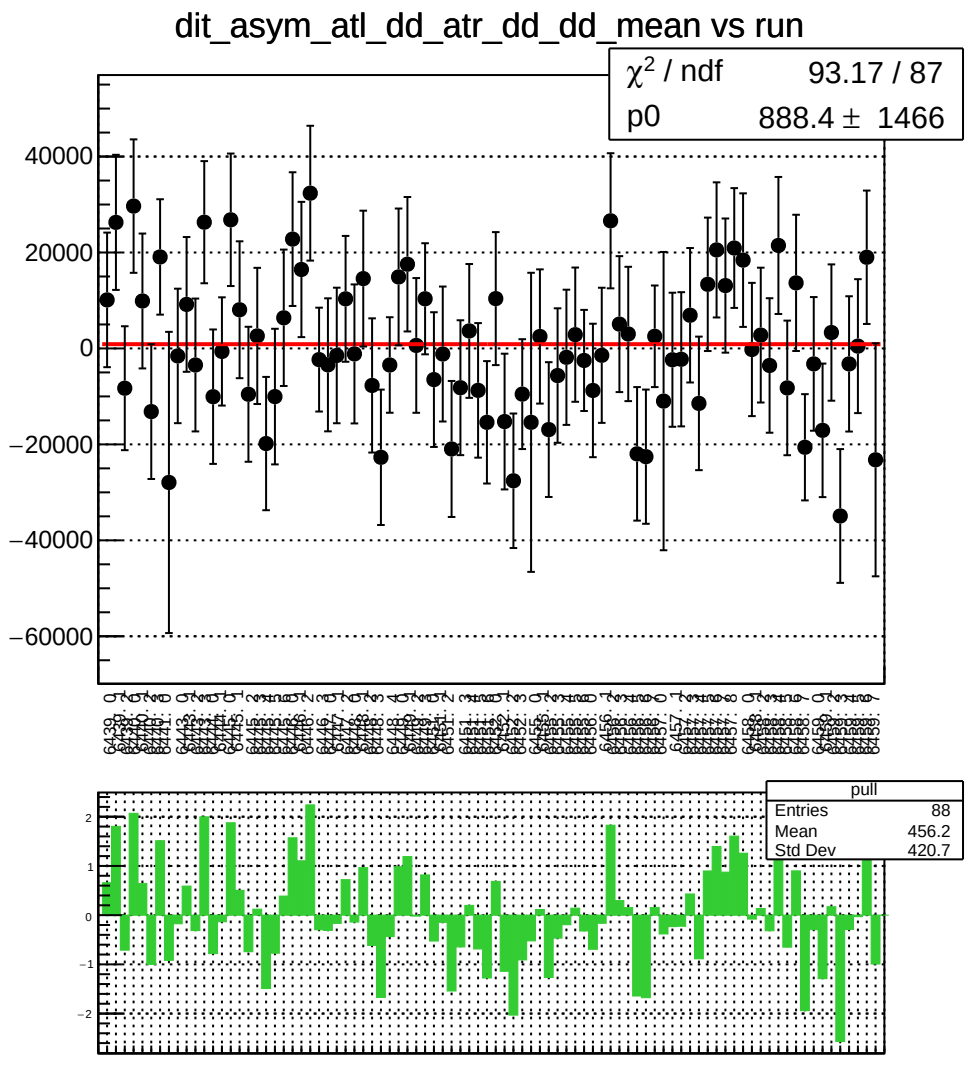

pull1D
Entries 88
Mean 0.004396
Std Dev 0.8907
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

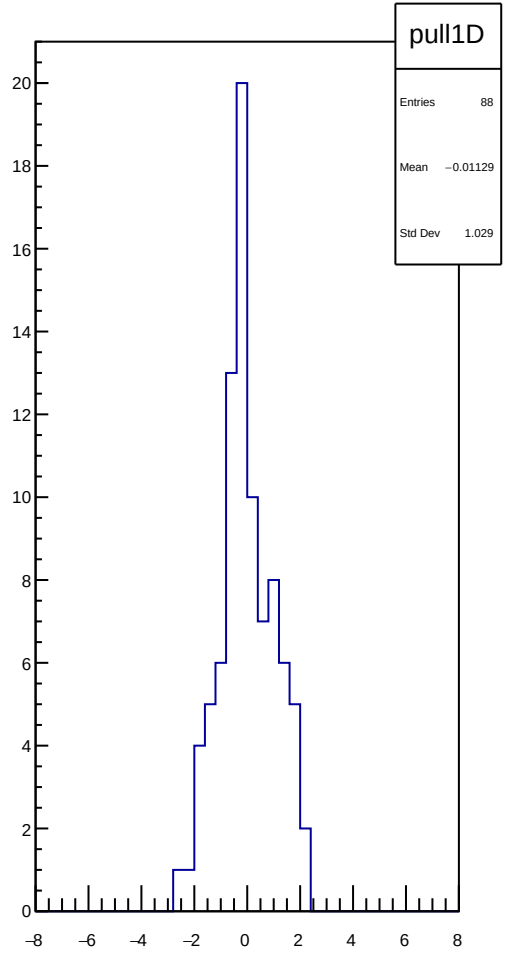

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 2703 / 87
p0 3890 ± 2.989
4400
4200
4000
3800
3600
3400

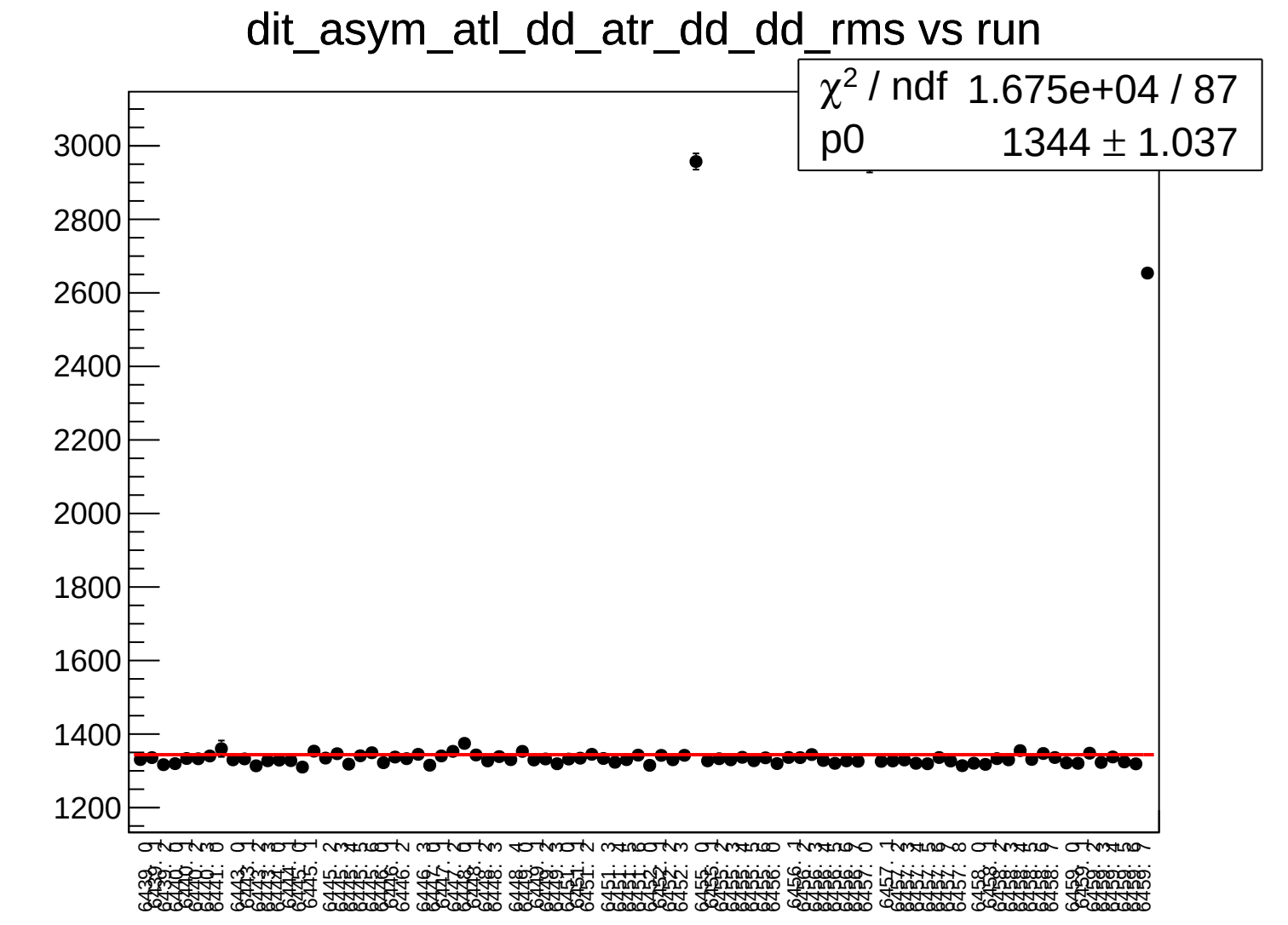

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 64.8 / 87
p0 −6861 ± 4479
pull
Entries 88
Mean 1428
Std Dev 1370

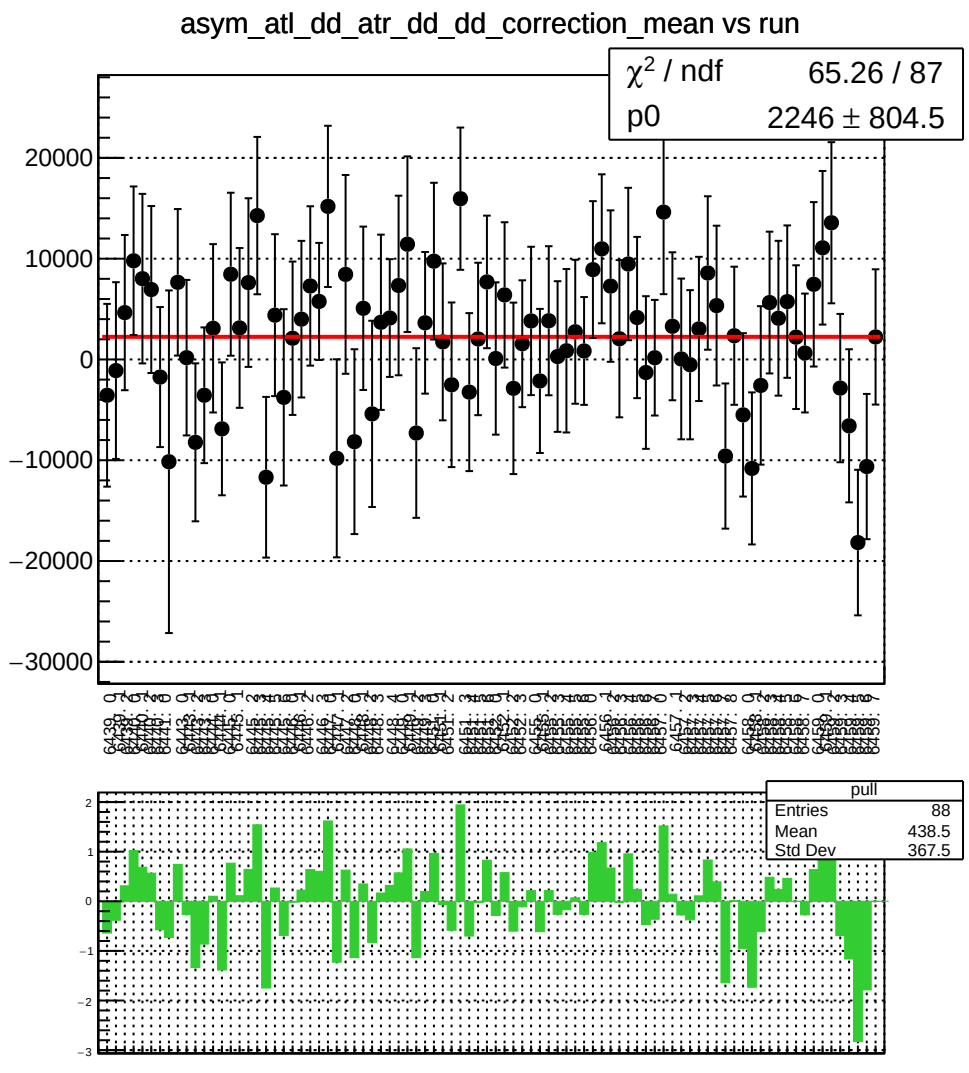

pull1D
Entries 88
Mean 0.000934
Std Dev 0.8581

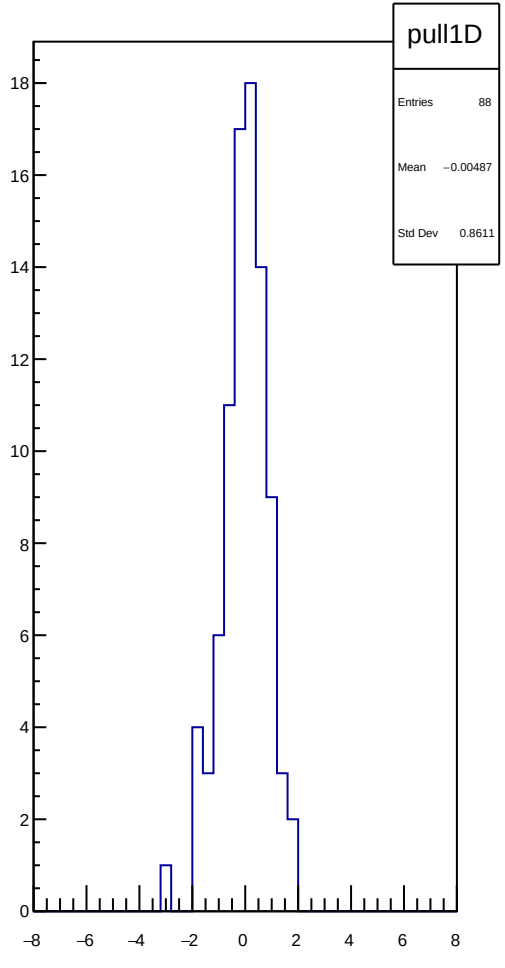

asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 3598 / 87
p0 4121 ± 3.167
5000
4800
4600
4400
4200
4000
3800
3600

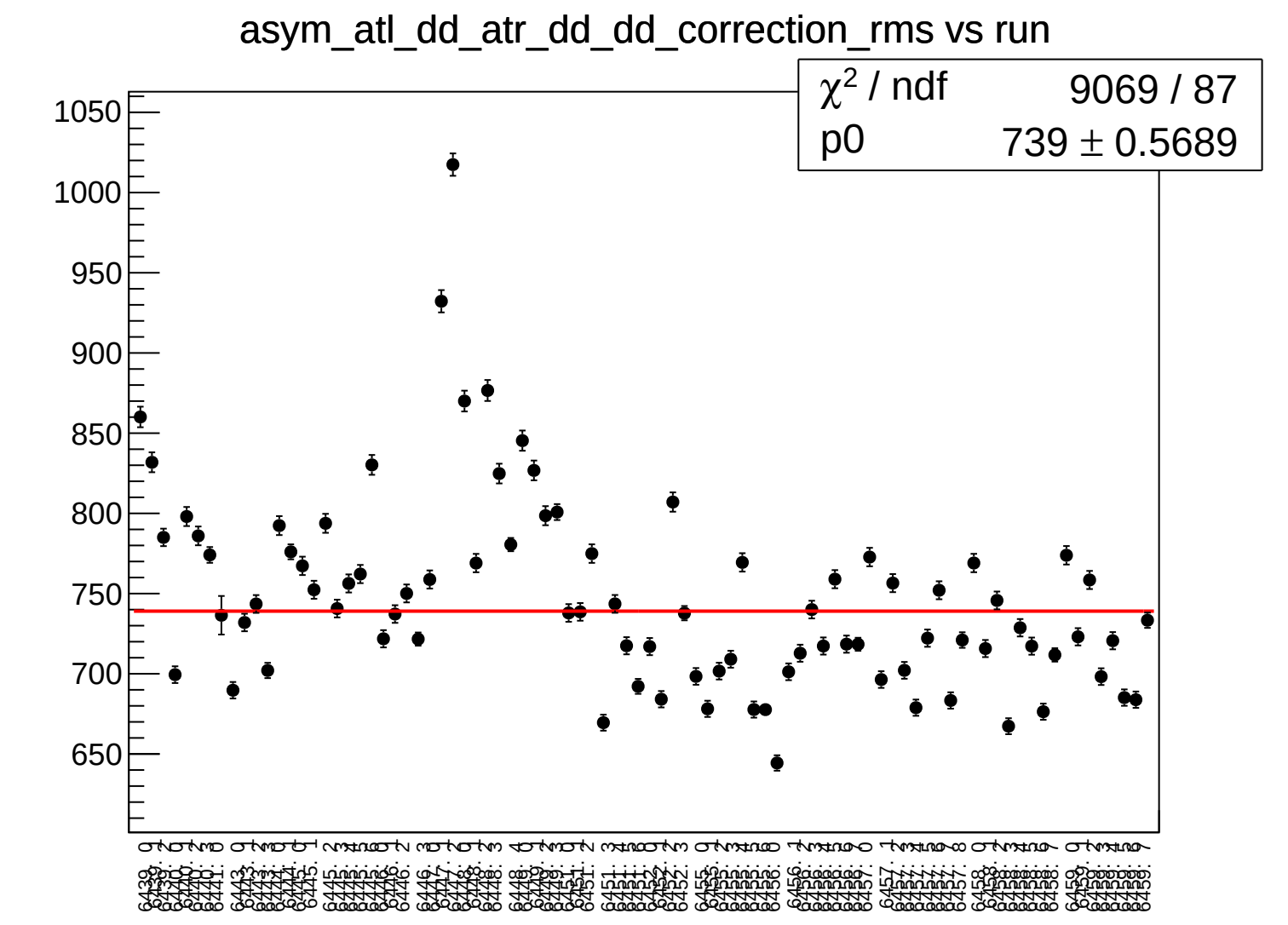

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 93.17 / 87
p0 888.4 ± 1466
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 456.2
Std Dev 420.7
2
1
0
−1
−2

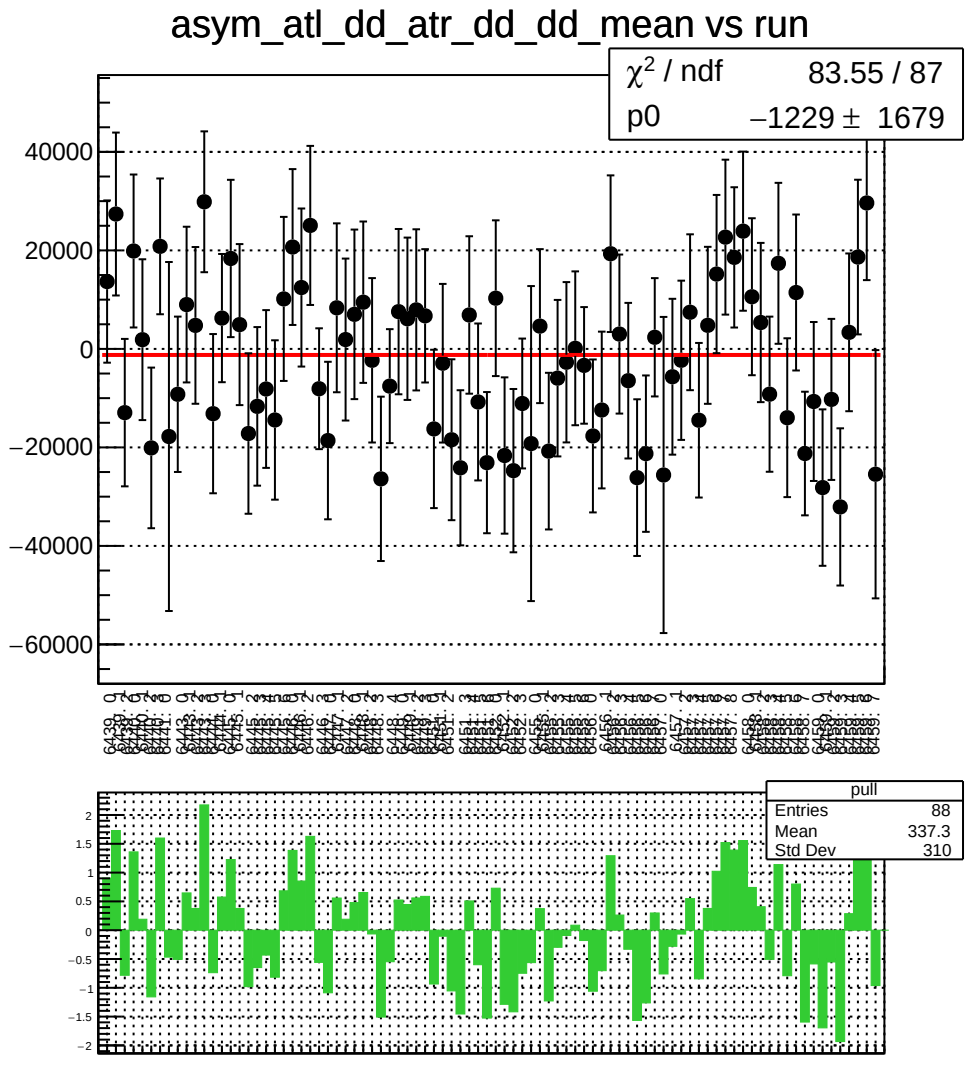

pull1D
Entries 88
Mean −0.01129
Std Dev 1.029
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

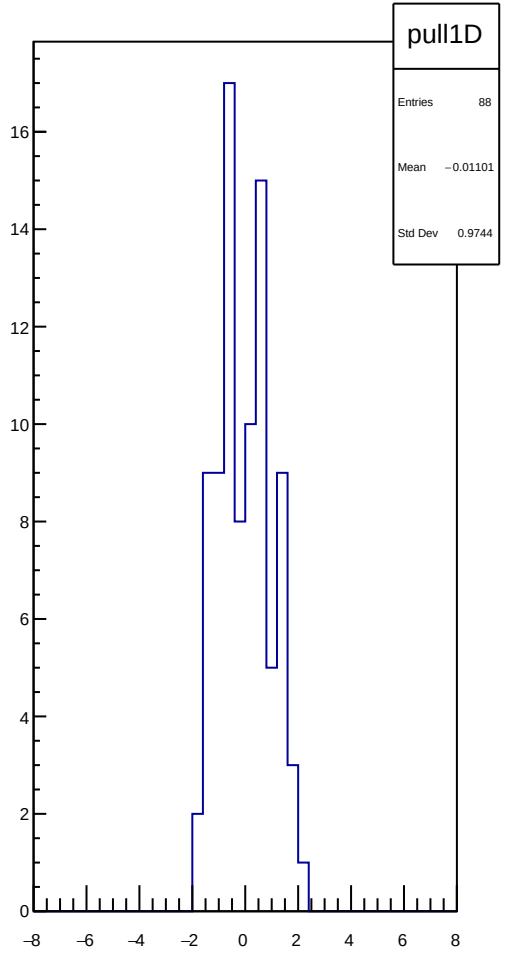

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 1.675e+04 / 87
p0 1344 ± 1.037
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

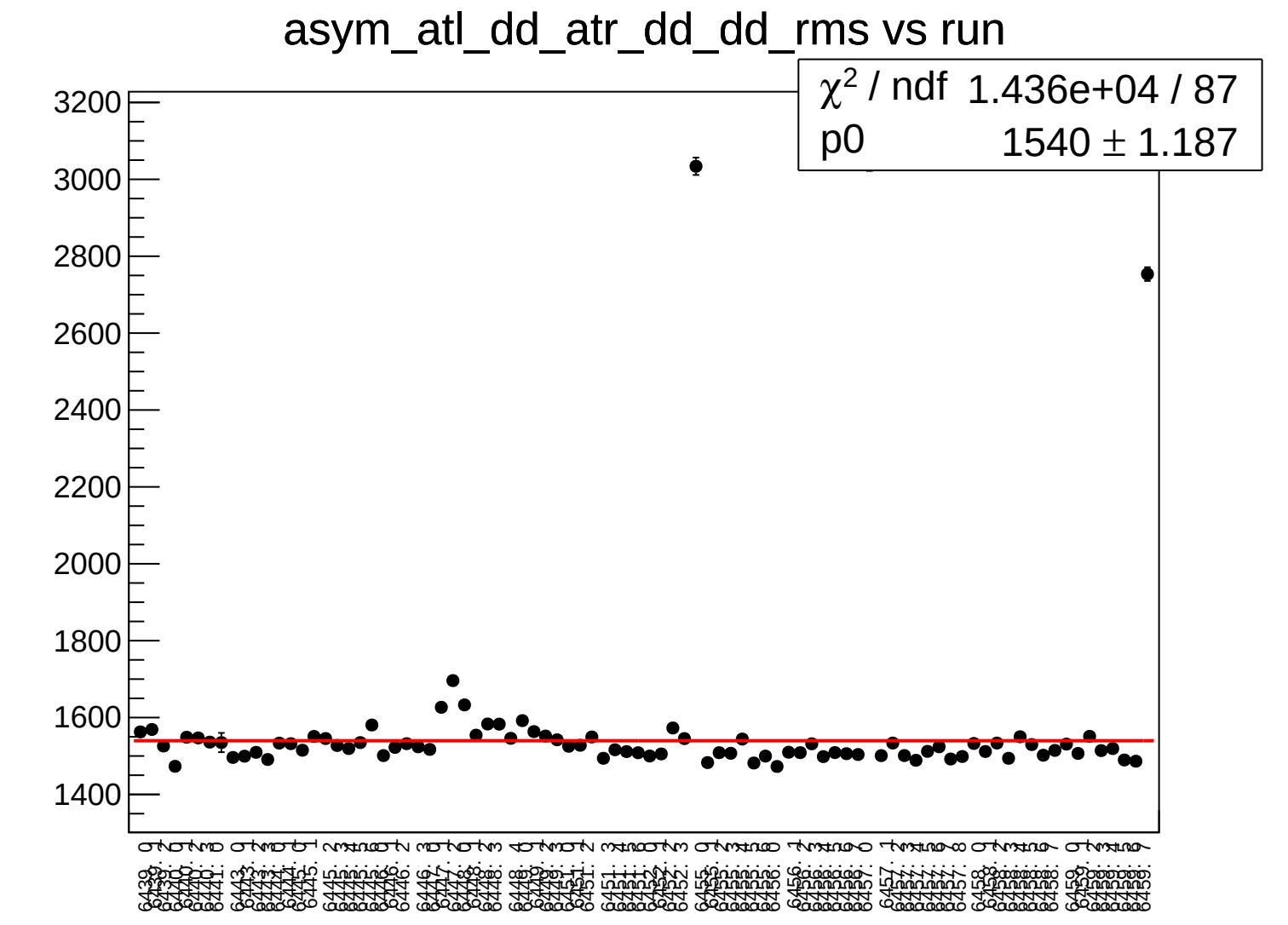

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 65.26 / 87
p0 2246 ± 804.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 438.5
Std Dev 367.5
2
1
0
−1
−2
−3

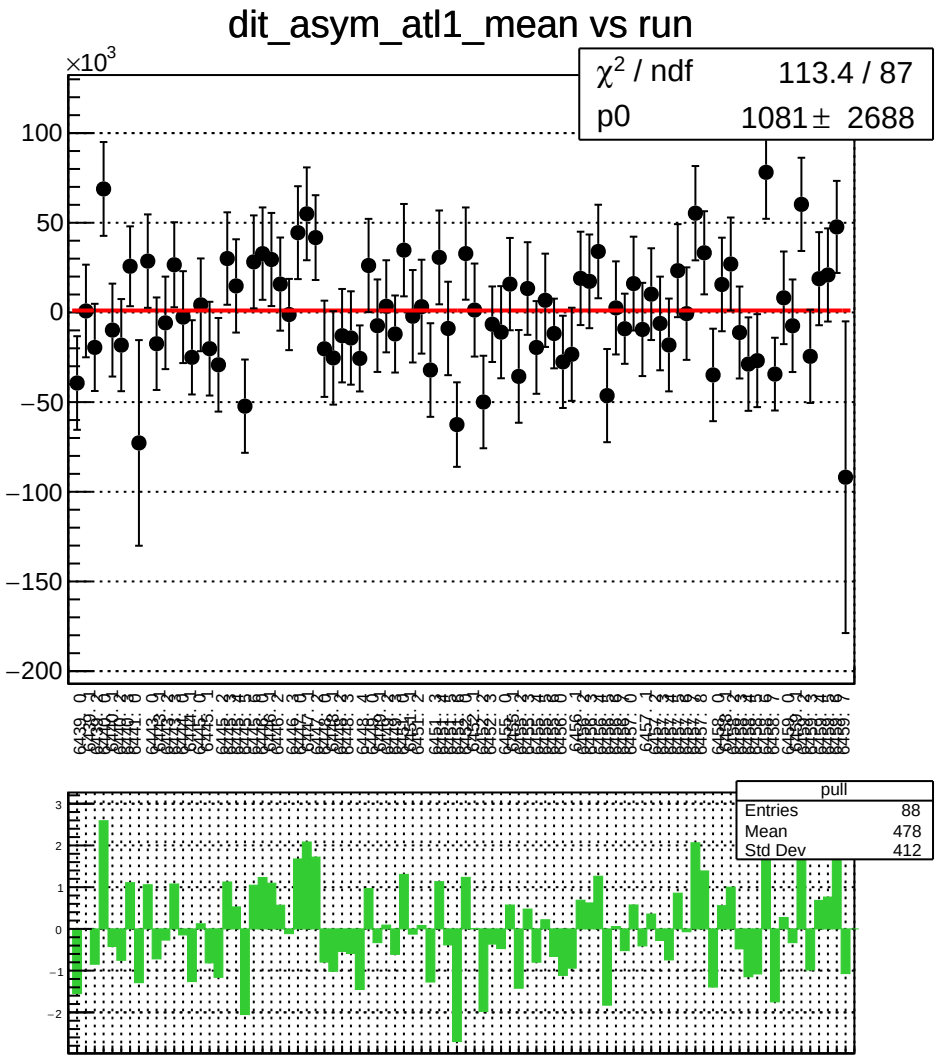

pull1D
Entries 88
Mean −0.00487
Std Dev 0.8611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

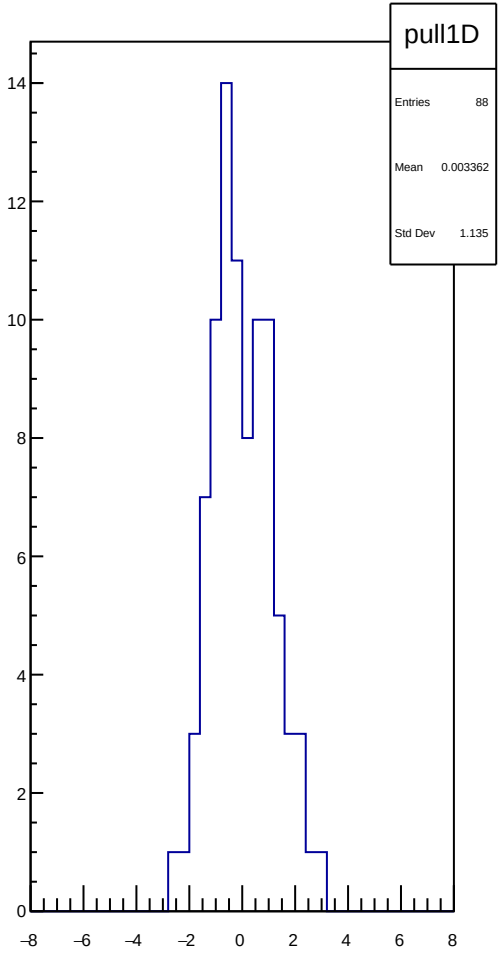

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ^2 / ndf 9069 / 87
p0 739 ± 0.5689
1050
1000
950
900
850
800
750
700
650

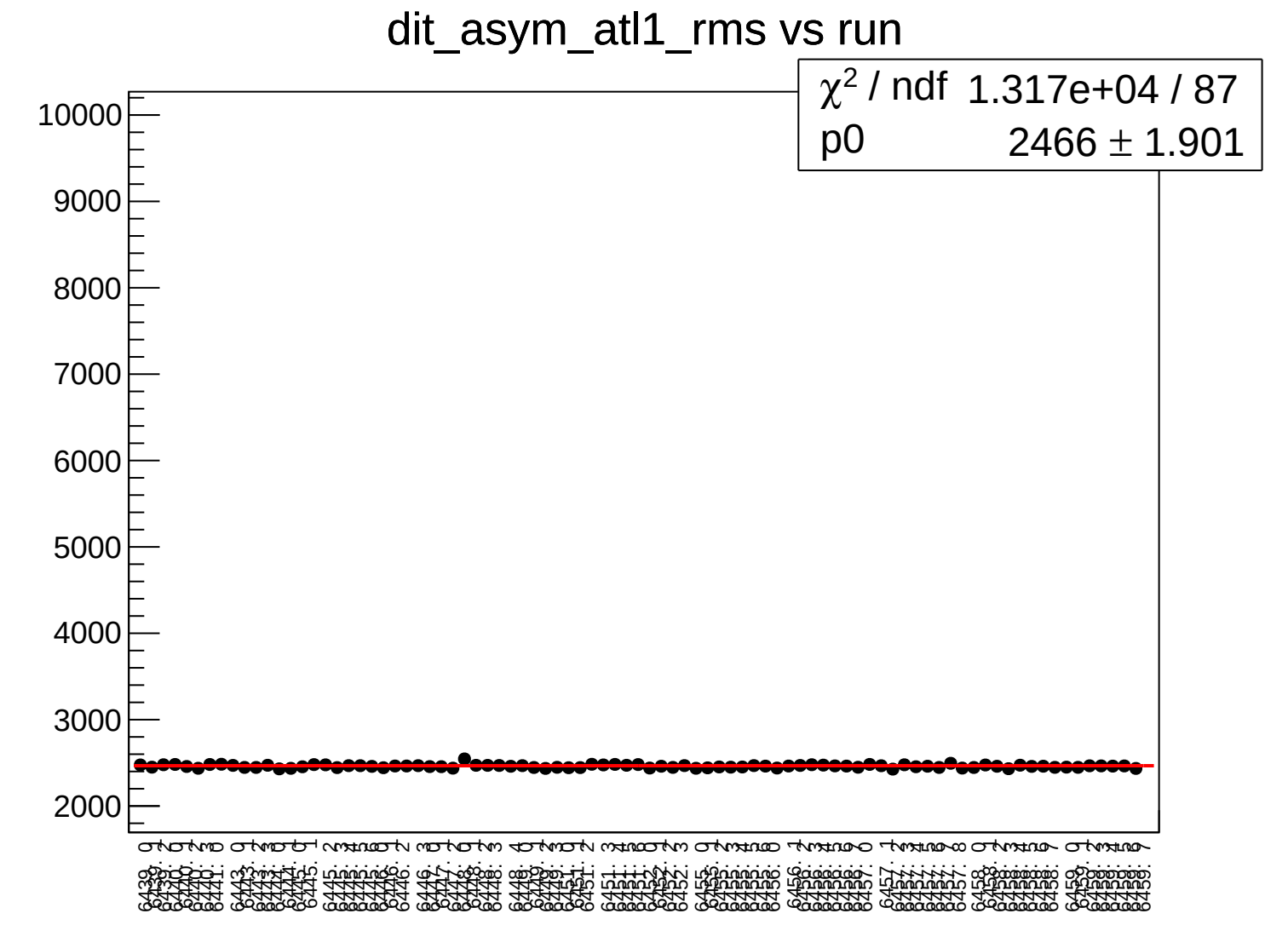

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 83.55 / 87
p0 −1229 ± 1679
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 337.3
Std Dev 310
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

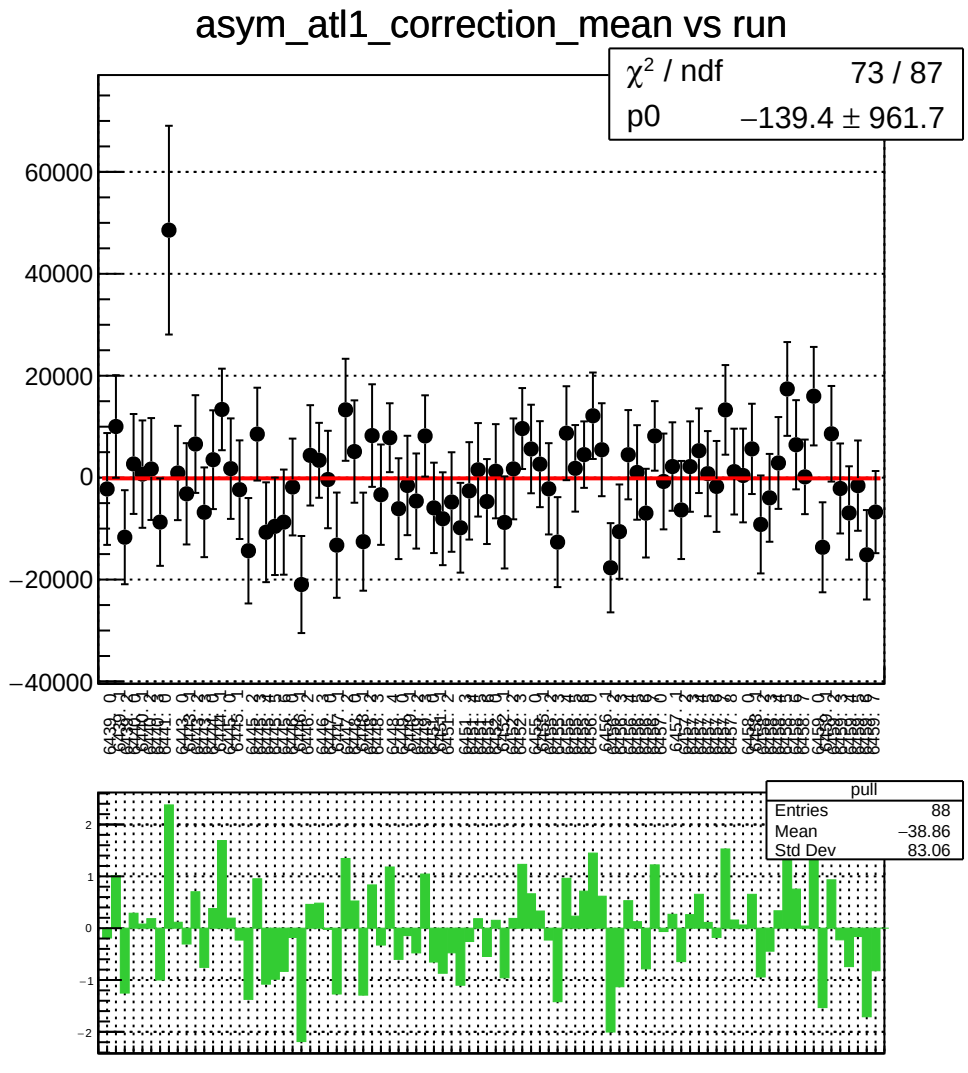

pull1D
Entries 88
Mean −0.01101
Std Dev 0.9744
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

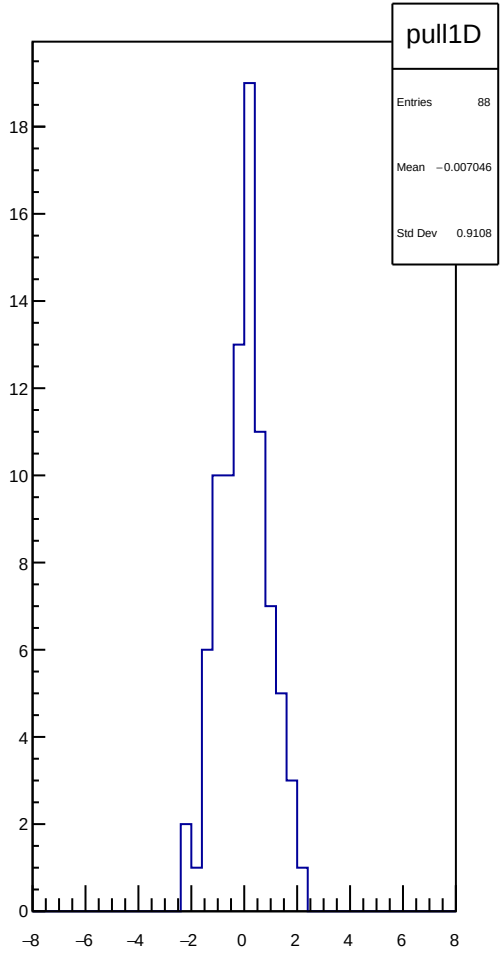

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.436e+04 / 87
p0 1540 ± 1.187
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

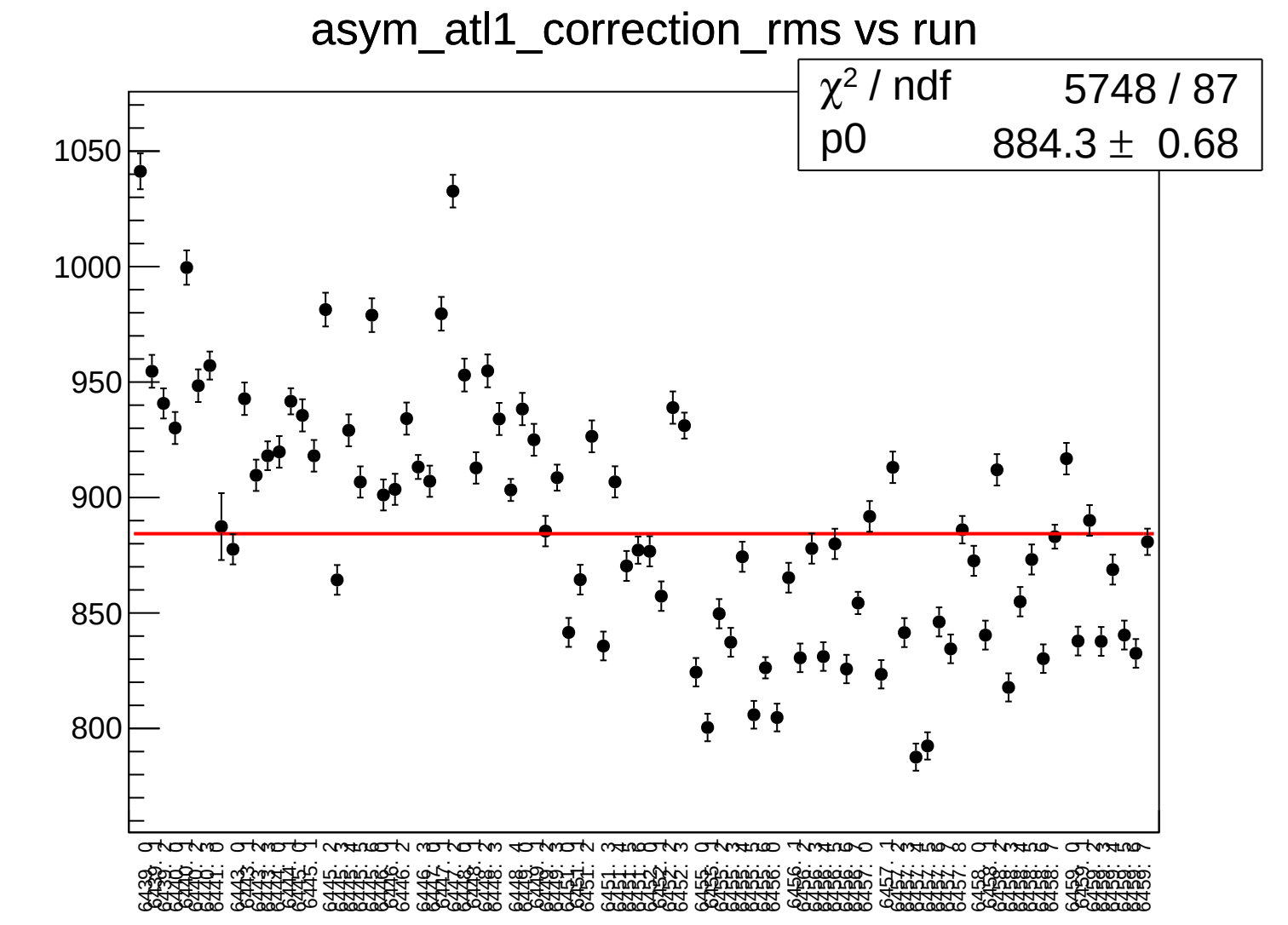

dit_asym_atl1_mean vs run
χ^2 / ndf 113.4 / 87
p0 1081 ± 2688
×10^3
pull
Entries 88
Mean 478
Std Dev 412

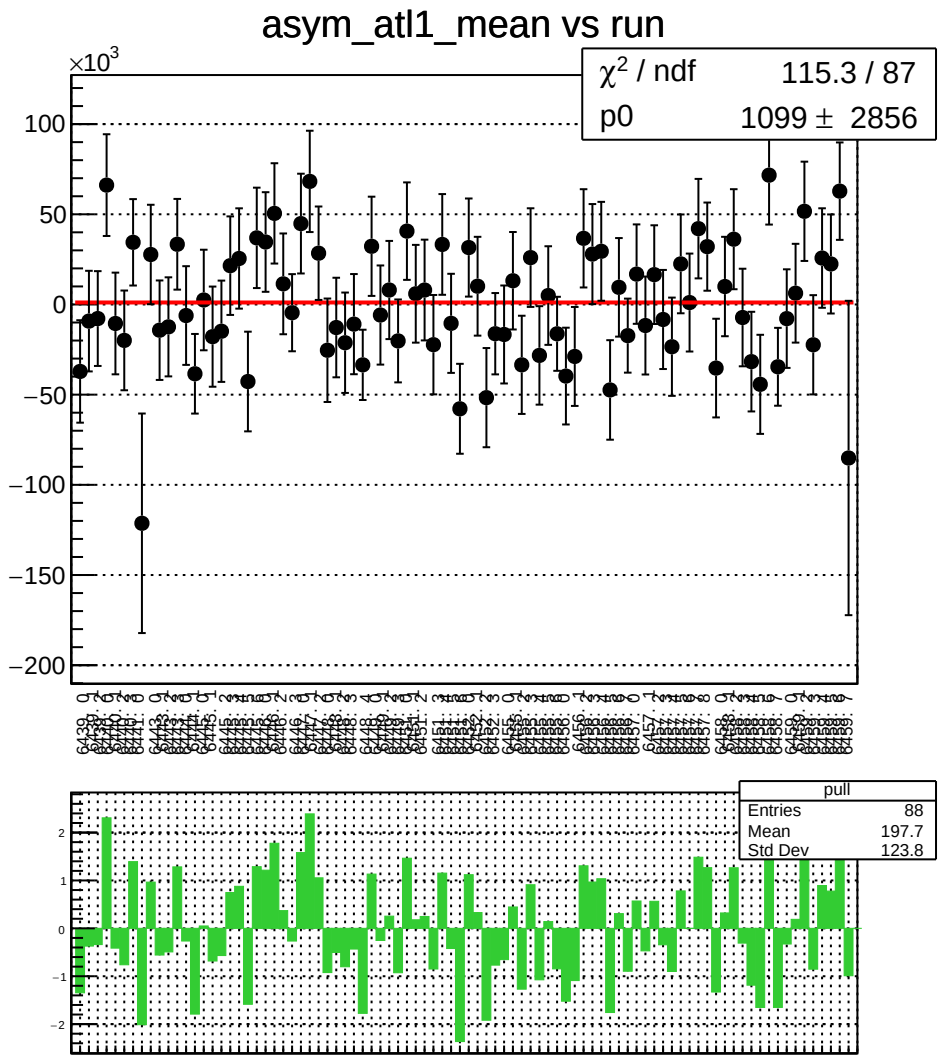

pull1D
Entries 88
Mean 0.003362
Std Dev 1.135

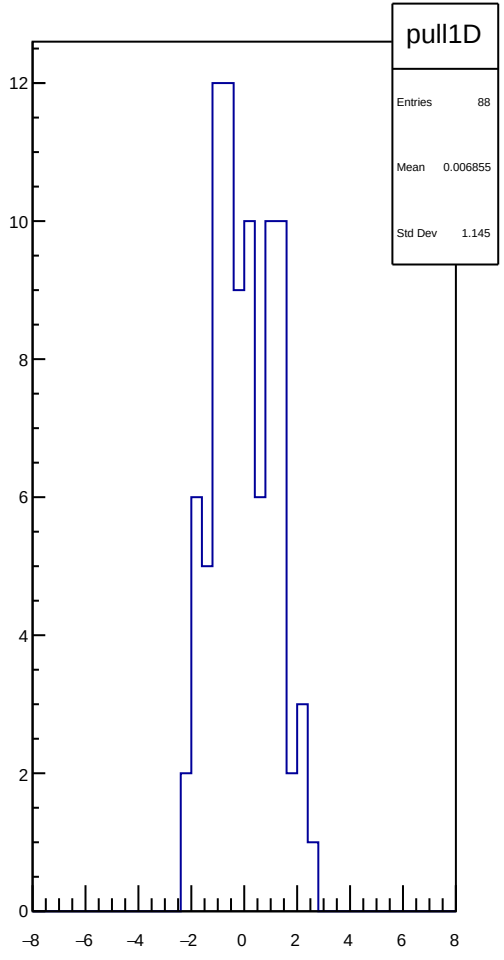

dit_asym_atl1_rms vs run
χ^2 / ndf 1.317e+04 / 87
p0 2466 ± 1.901
10000
9000
8000
7000
6000
5000
4000
3000
2000

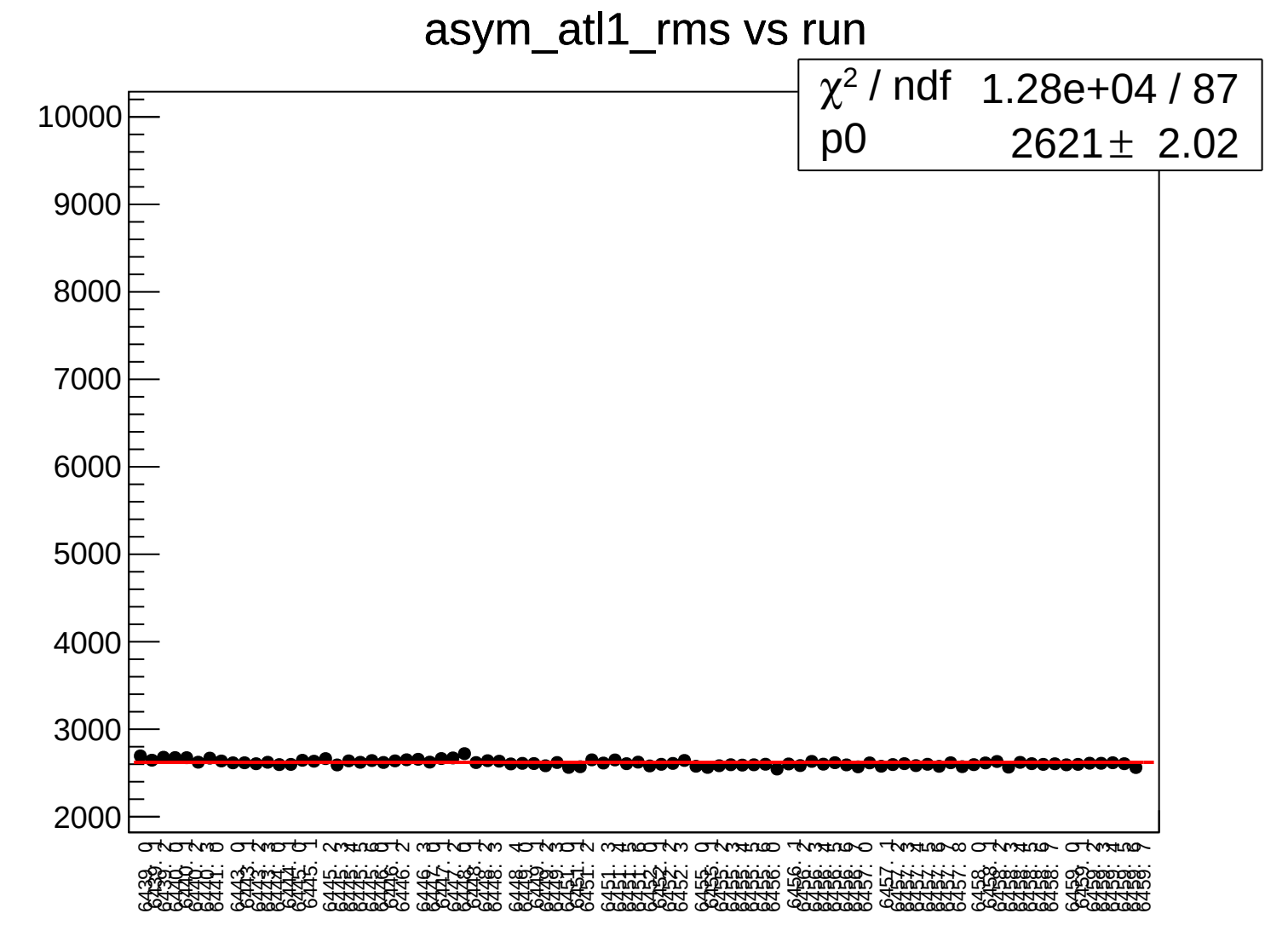

asym_atl1_correction_mean vs run
χ² / ndf 73 / 87
p0 −139.4 ± 961.7
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −38.86
Std Dev 83.06
2
1
0
−1
−2

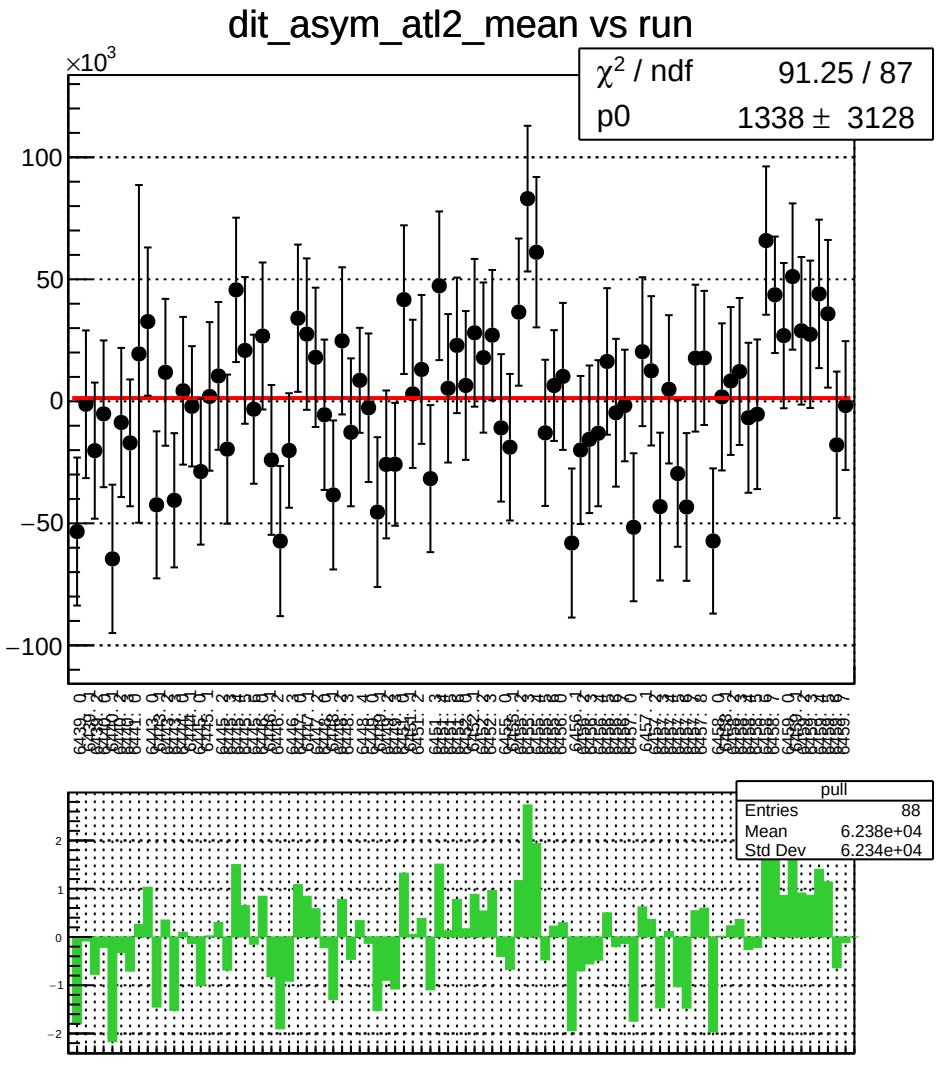

pull1D
Entries 88
Mean −0.007046
Std Dev 0.9108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

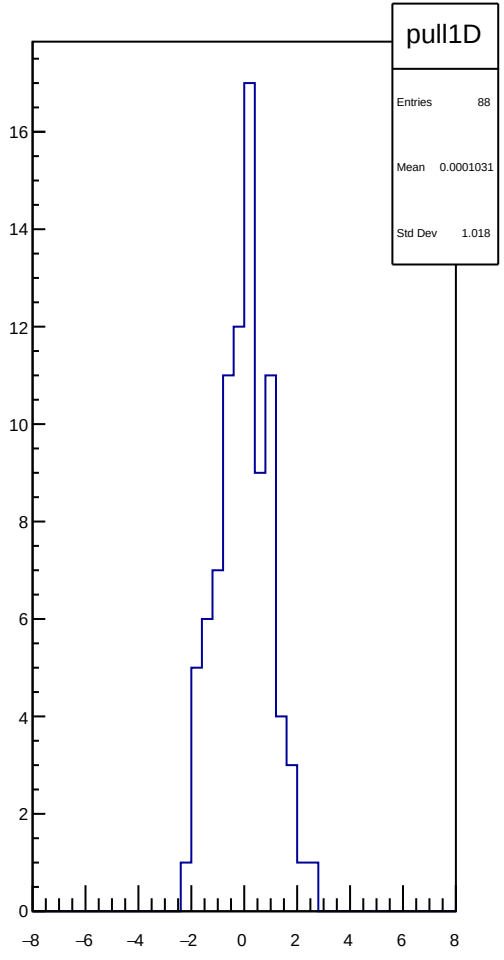

asym_atl1_correction_rms vs run
χ² / ndf 5748 / 87
p0 884.3 ± 0.68
1050
1000
950
900
850
800

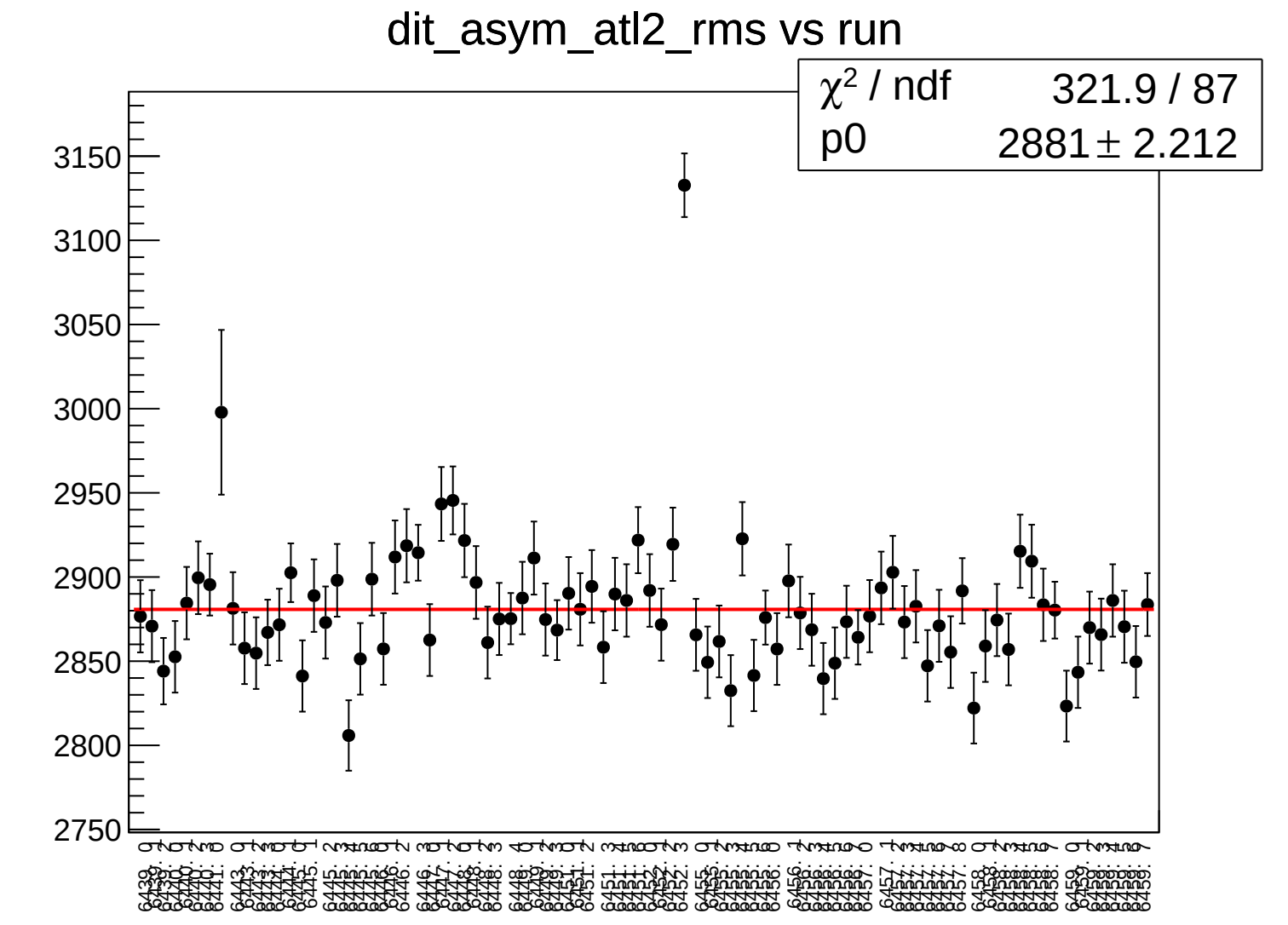

asym_atl1_mean vs run
×10^3
χ² / ndf 115.3 / 87
p0 1099 ± 2856
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 197.7
Std Dev 123.8
2
1
0
−1
−2

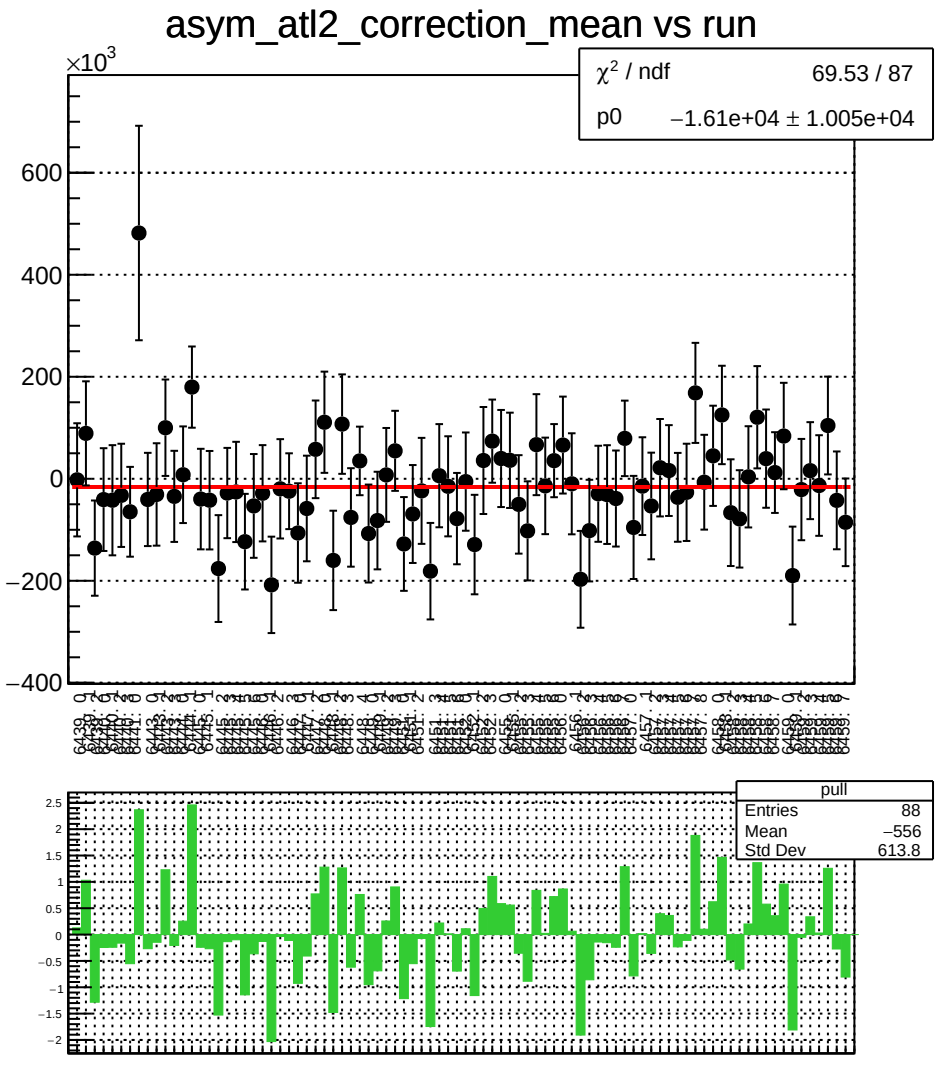

pull1D
Entries 88
Mean 0.006855
Std Dev 1.145
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

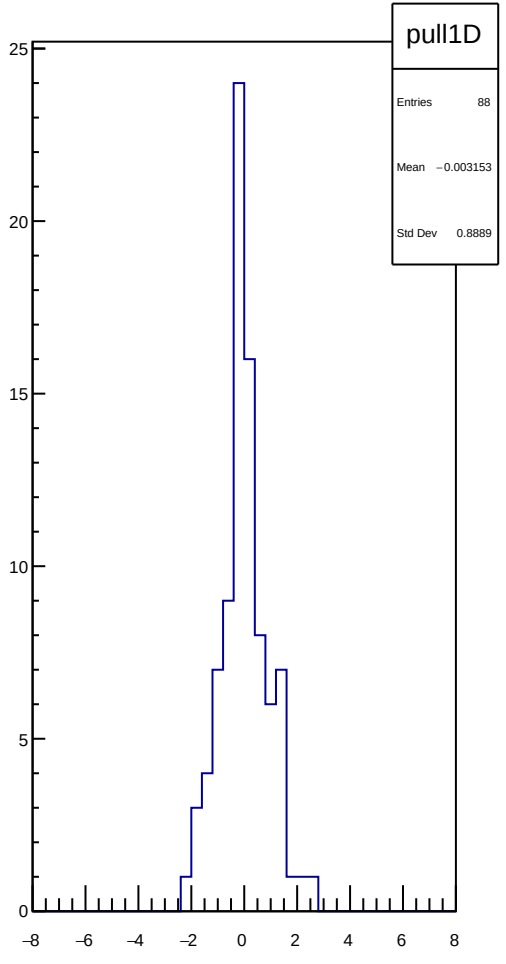

asym_atl1_rms vs run
χ² / ndf 1.28e+04 / 87
p0 2621 ± 2.02
10000
9000
8000
7000
6000
5000
4000
3000
2000

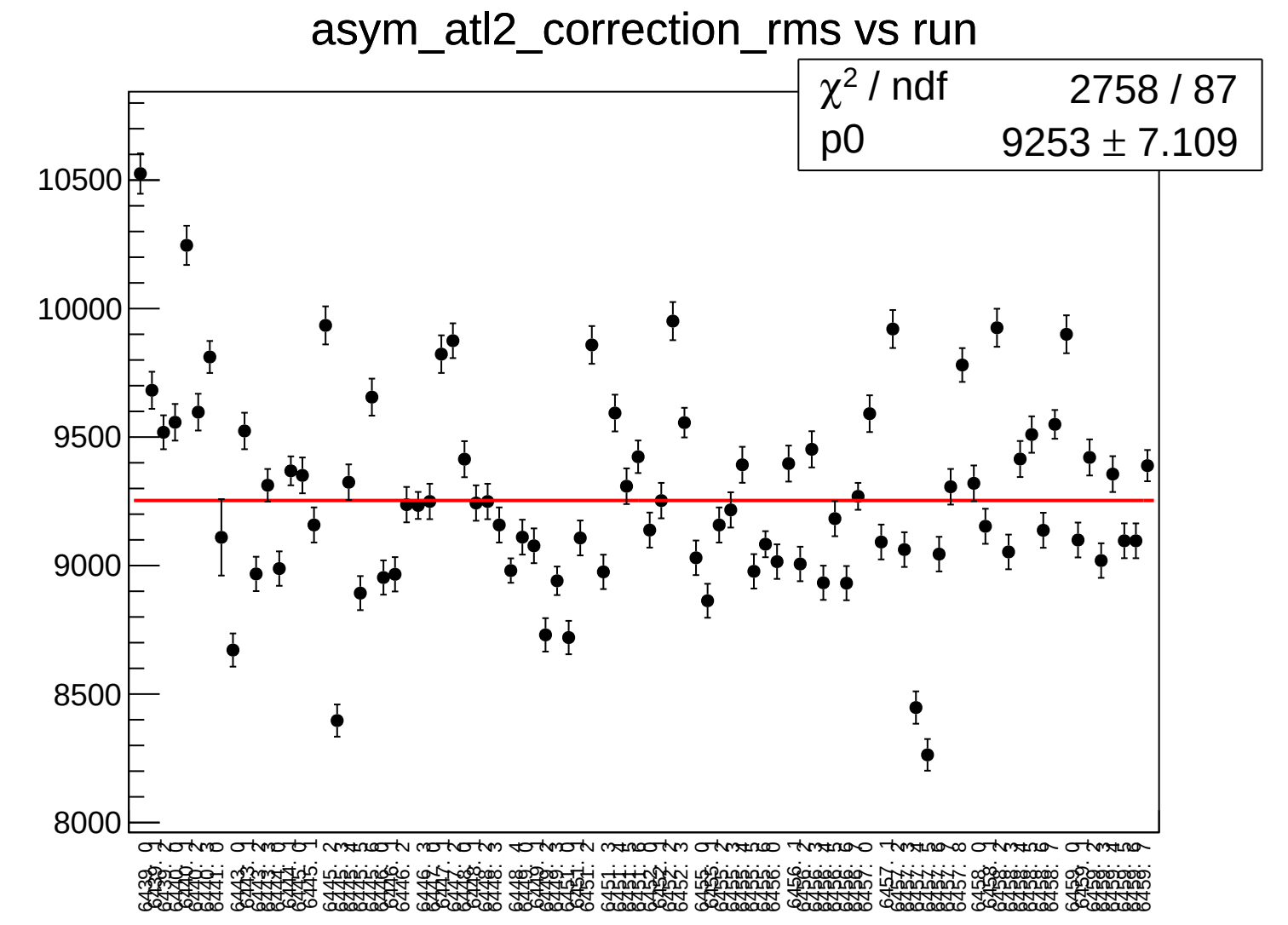

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 91.25 / 87
p0 1338 ± 3128
100
50
0
−50
−100
pull
Entries 88
Mean 6.238e+04
Std Dev 6.234e+04
2
1
0
−1
−2

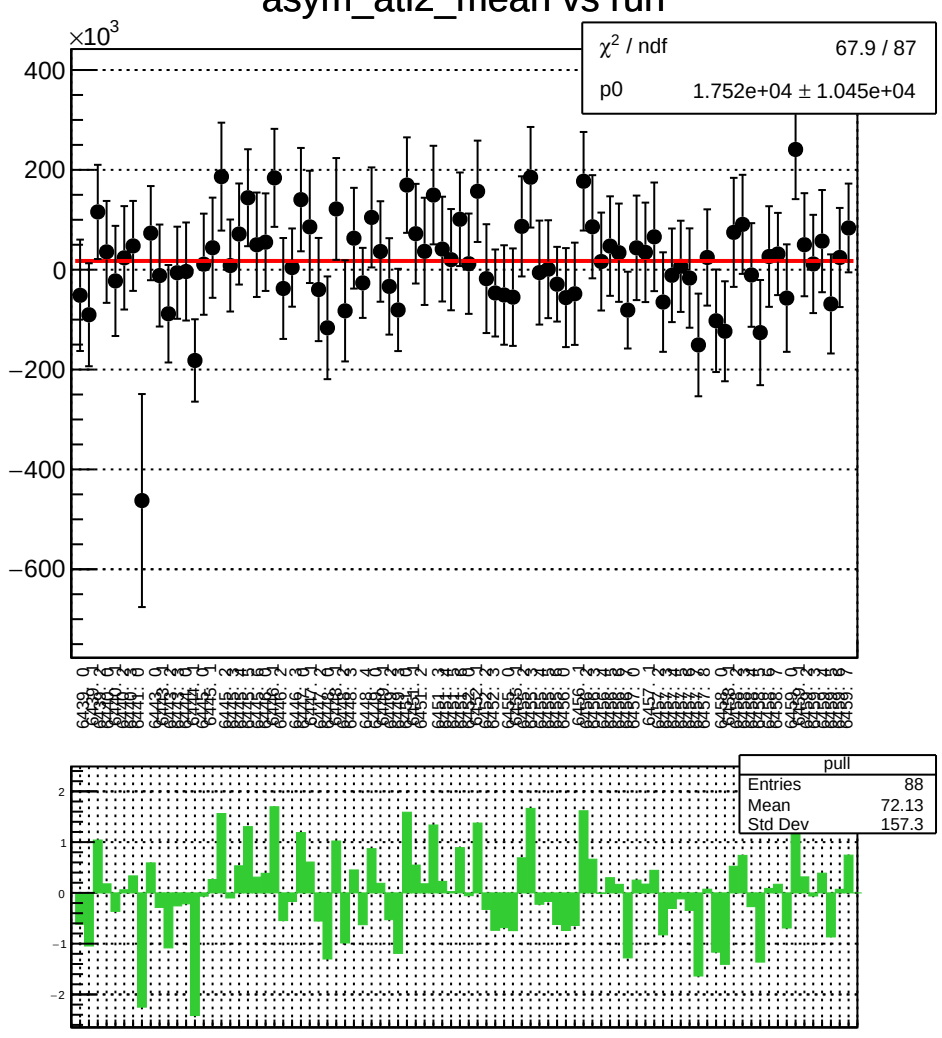

pull1D
Entries 88
Mean 0.0001031
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

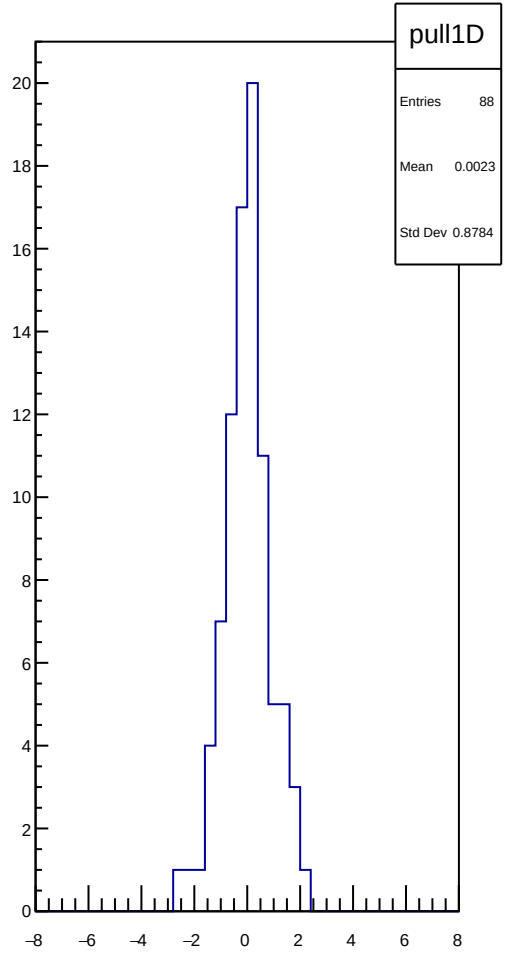

dit_asym_atl2_rms vs run
χ^2 / ndf 321.9 / 87
p0 2881 ± 2.212
3150
3100
3050
3000
2950
2900
2850
2800
2750

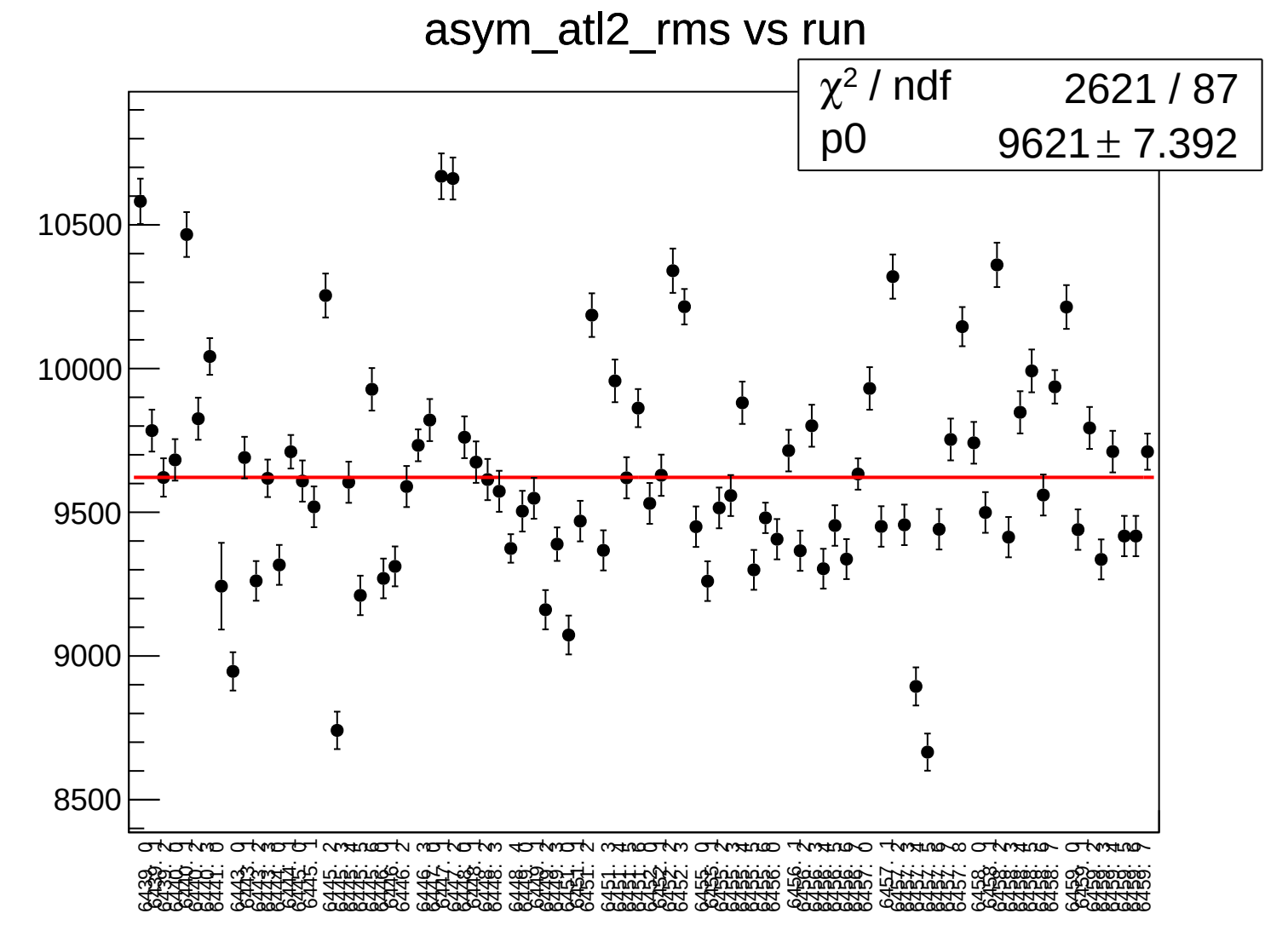

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 69.53 / 87
p0 −1.61e+04 ± 1.005e+04
600
400
200
0
−200
−400
pull
Entries 88
Mean −556
Std Dev 613.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

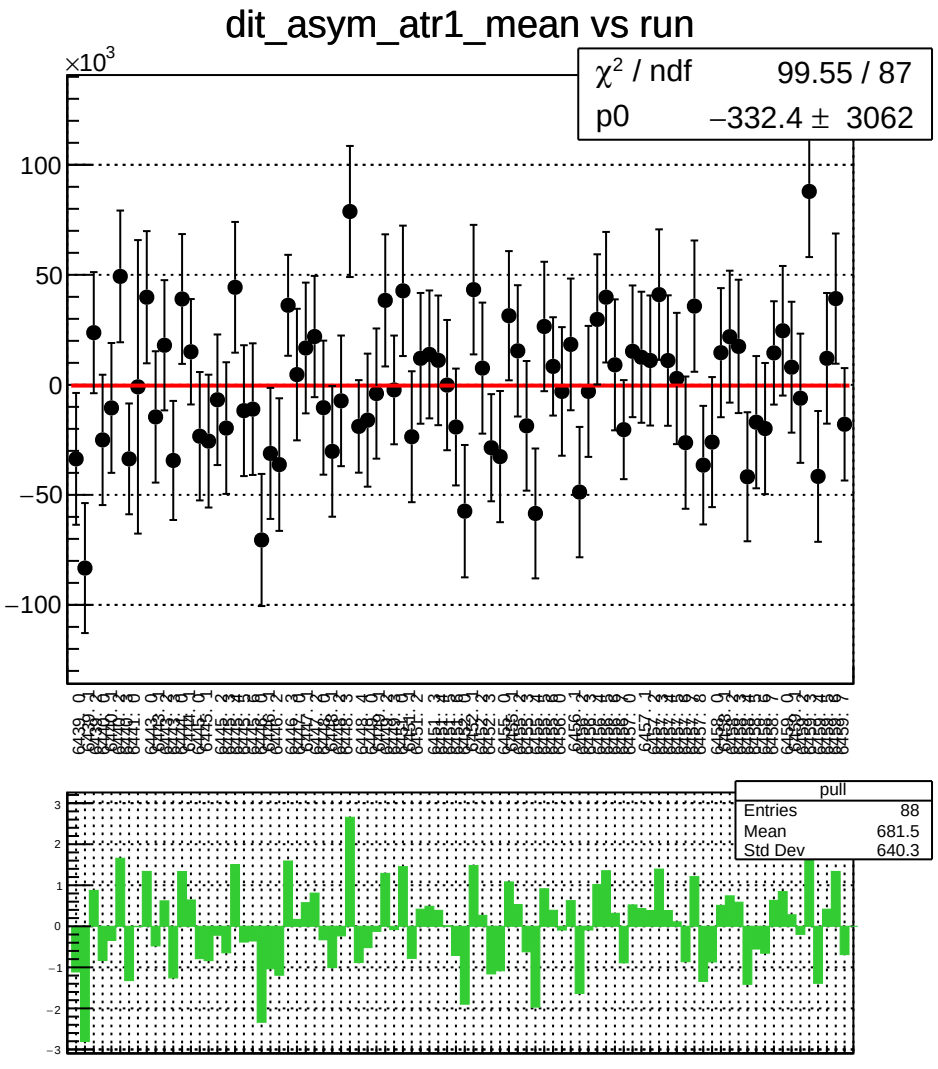

pull1D
Entries 88
Mean −0.003153
Std Dev 0.8889
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

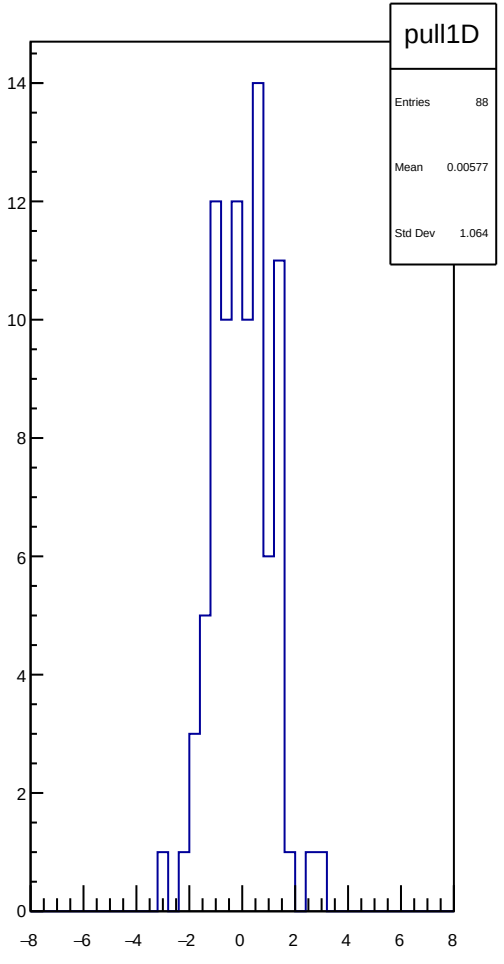

asym_atl2_correction_rms vs run
χ² / ndf 2758 / 87
p0 9253 ± 7.109
10500
10000
9500
9000
8500
8000

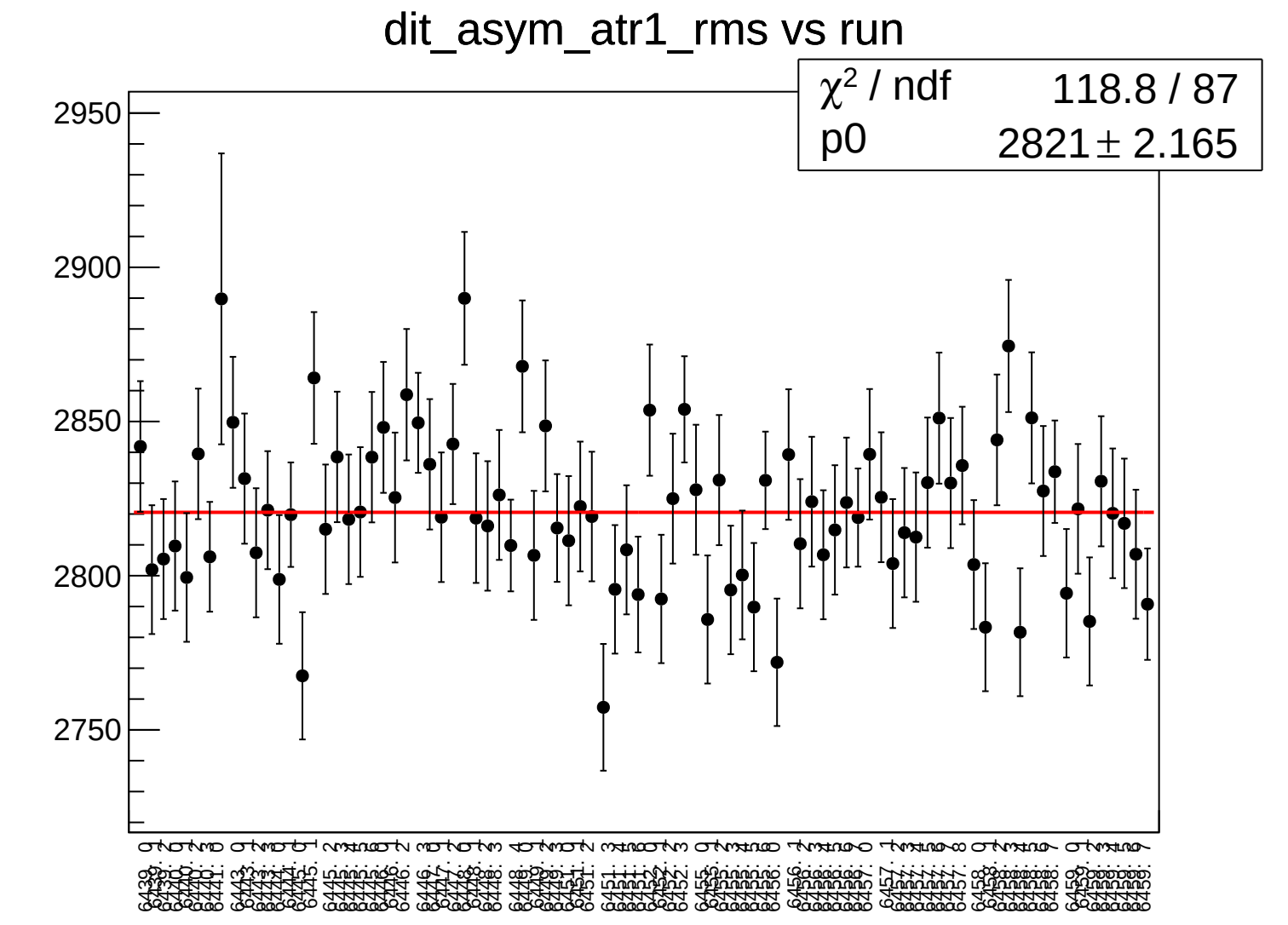

asym_atl2_mean vs run
×10^3
400
200
0
−200
−400
−600
χ² / ndf 67.9 / 87
p0 1.752e+04 ± 1.045e+04
pull
Entries 88
Mean 72.13
Std Dev 157.3
2
1
0
−1
−2

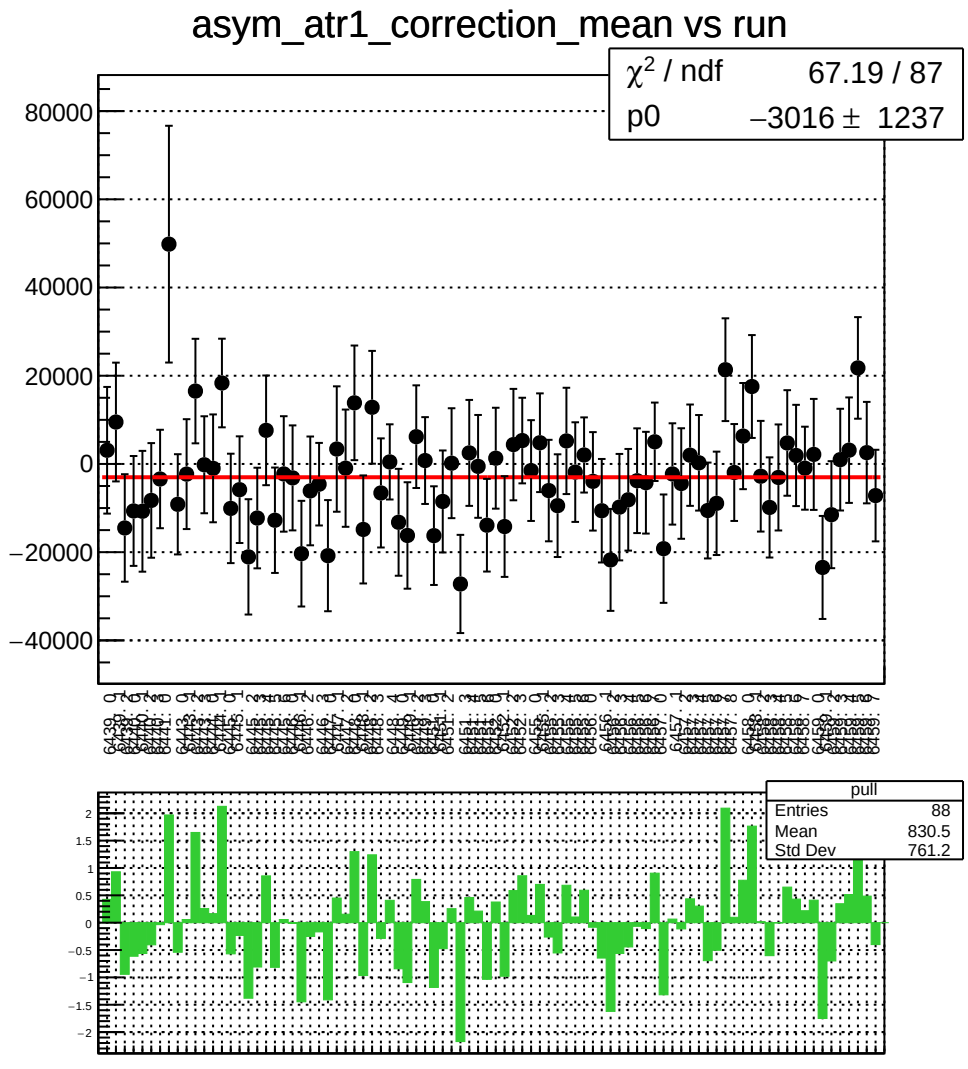

pull1D
Entries 88
Mean 0.0023
Std Dev 0.8784
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

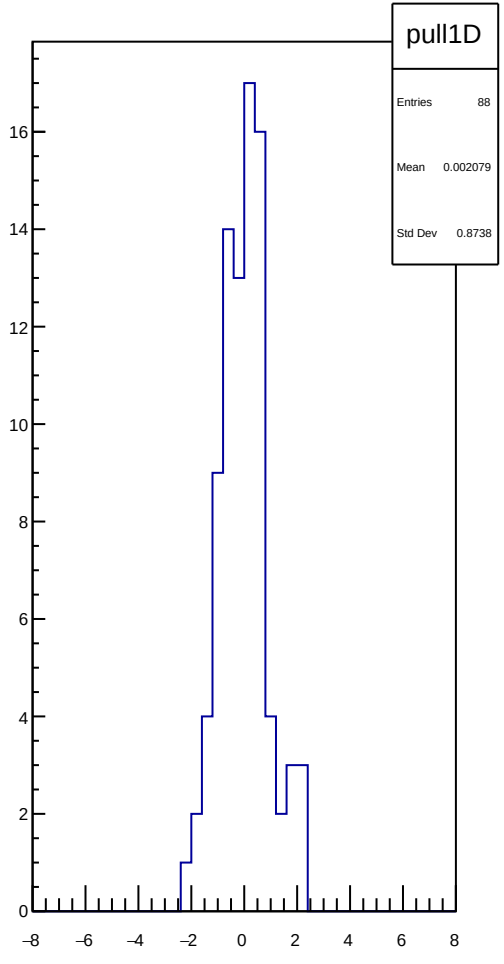

asym_atl2_rms vs run
χ² / ndf 2621 / 87
p0 9621 ± 7.392
10500
10000
9500
9000
8500

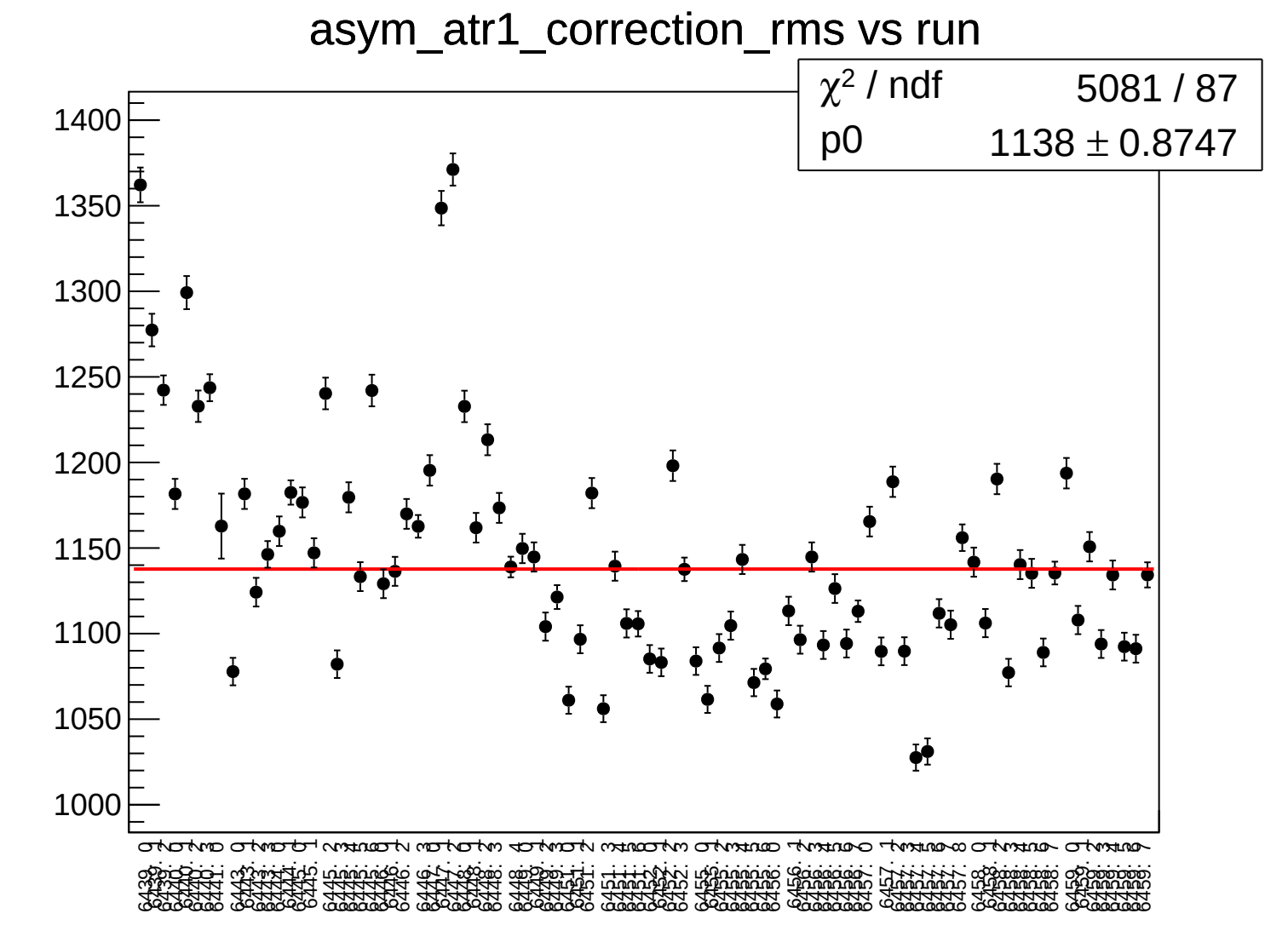

dit_asym_atr1_mean vs run
χ² / ndf 99.55 / 87
p0 −332.4 ± 3062
×10³
100
50
0
−50
−100
pull
Entries 88
Mean 681.5
Std Dev 640.3
3
2
1
0
−1
−2
−3

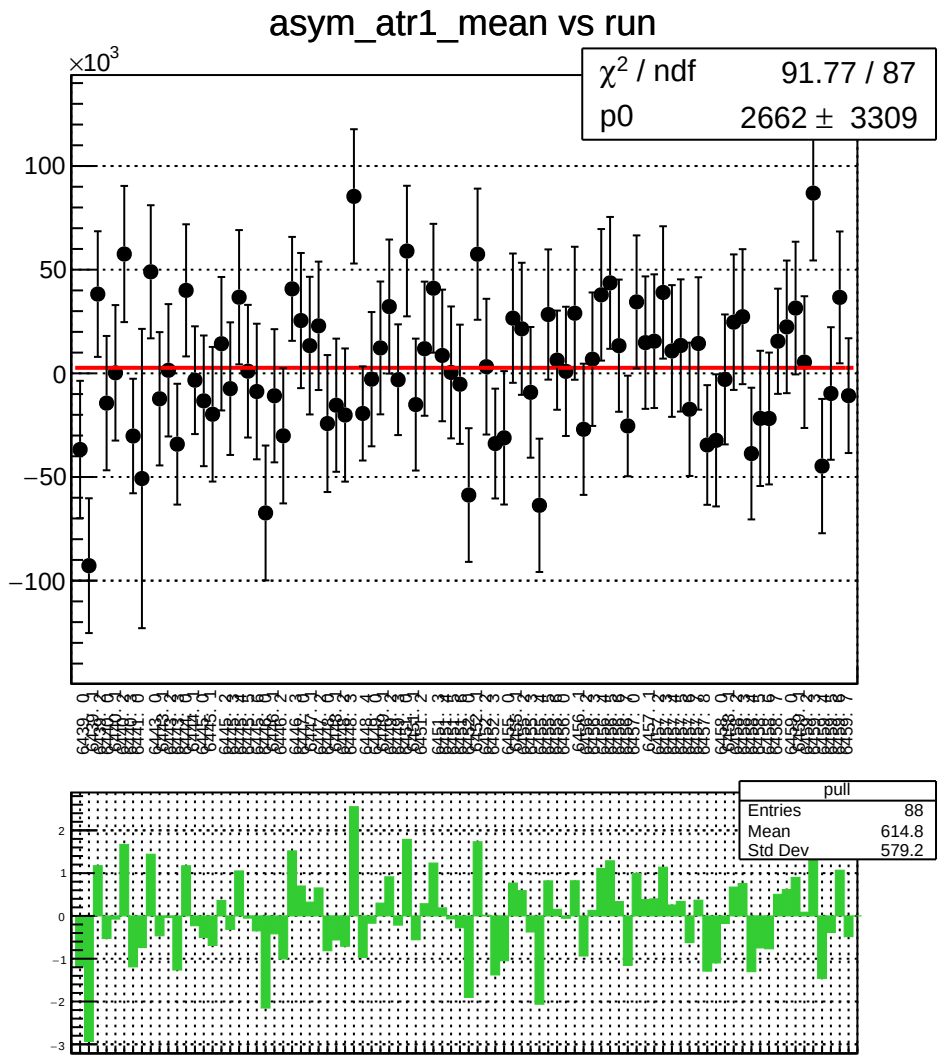

pull1D
Entries 88
Mean 0.00577
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

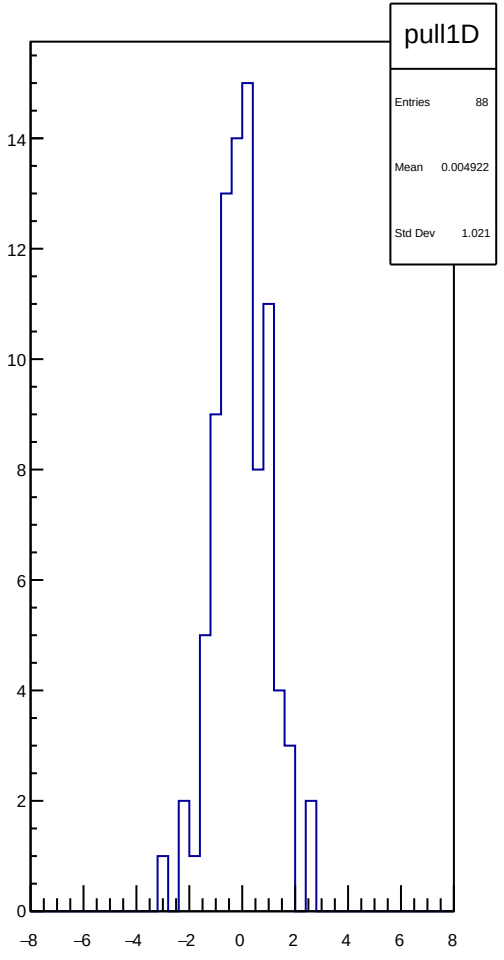

dit_asym_atr1_rms vs run
χ^2 / ndf 118.8 / 87
p0 2821 ± 2.165
2950
2900
2850
2800
2750

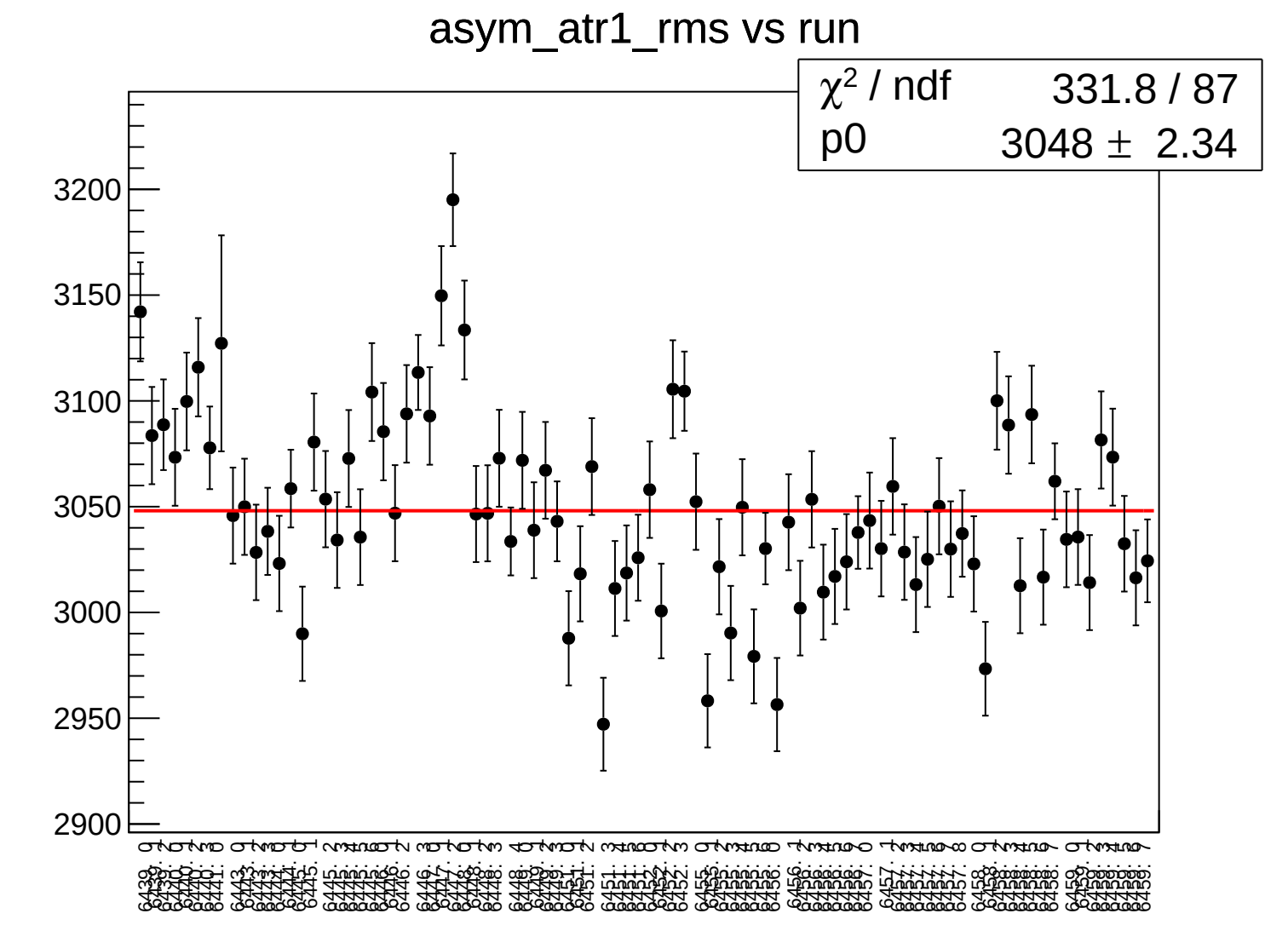

asym_atr1_correction_mean vs run
χ² / ndf 67.19 / 87
p0 −3016 ± 1237
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 830.5
Std Dev 761.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

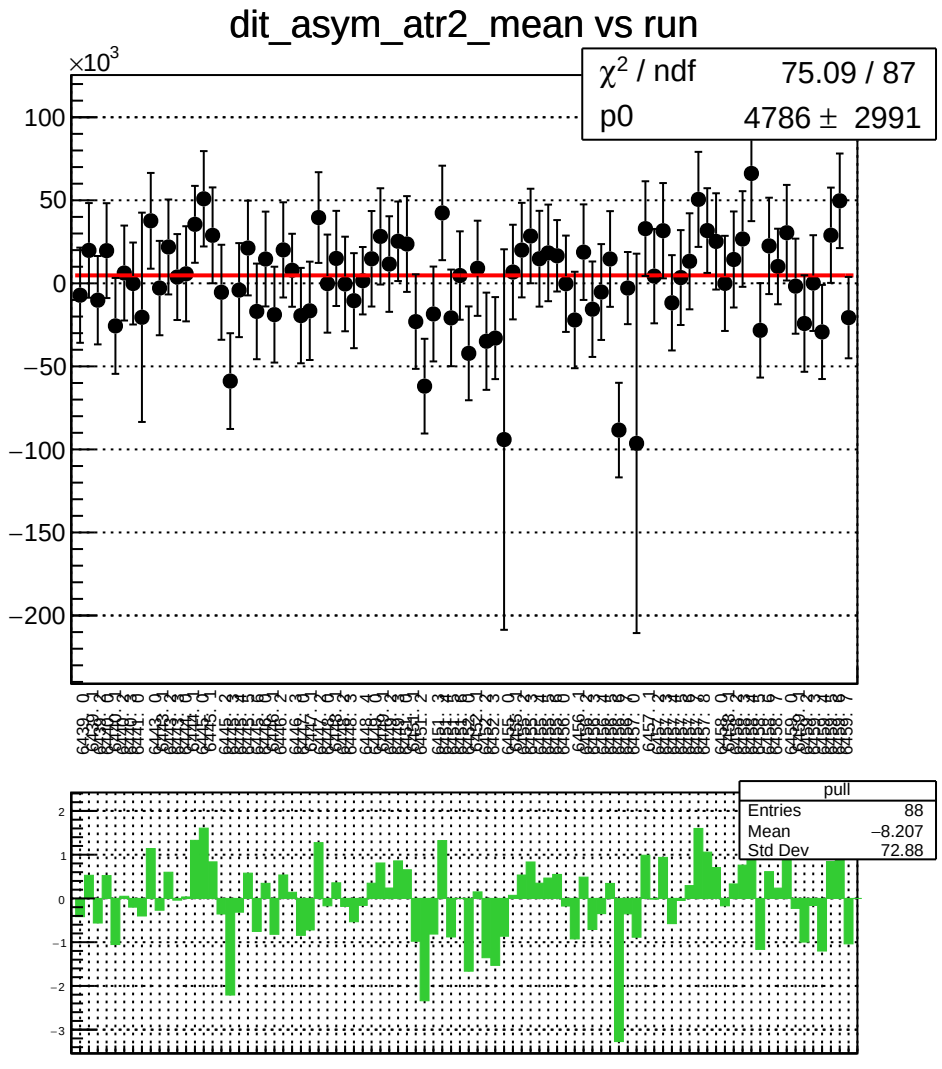

pull1D
Entries 88
Mean 0.002079
Std Dev 0.8738
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

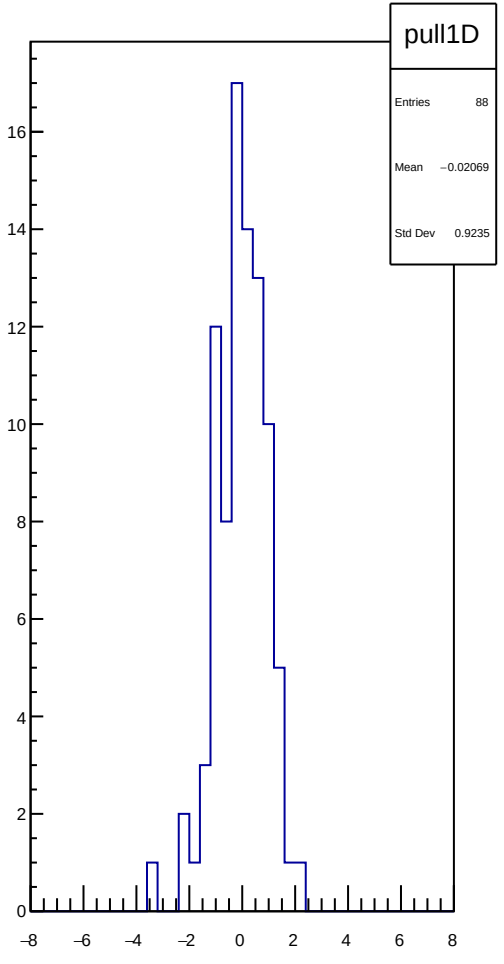

asym_atr1_correction_rms vs run
χ² / ndf 5081 / 87
p0 1138 ± 0.8747
1400
1350
1300
1250
1200
1150
1100
1050
1000

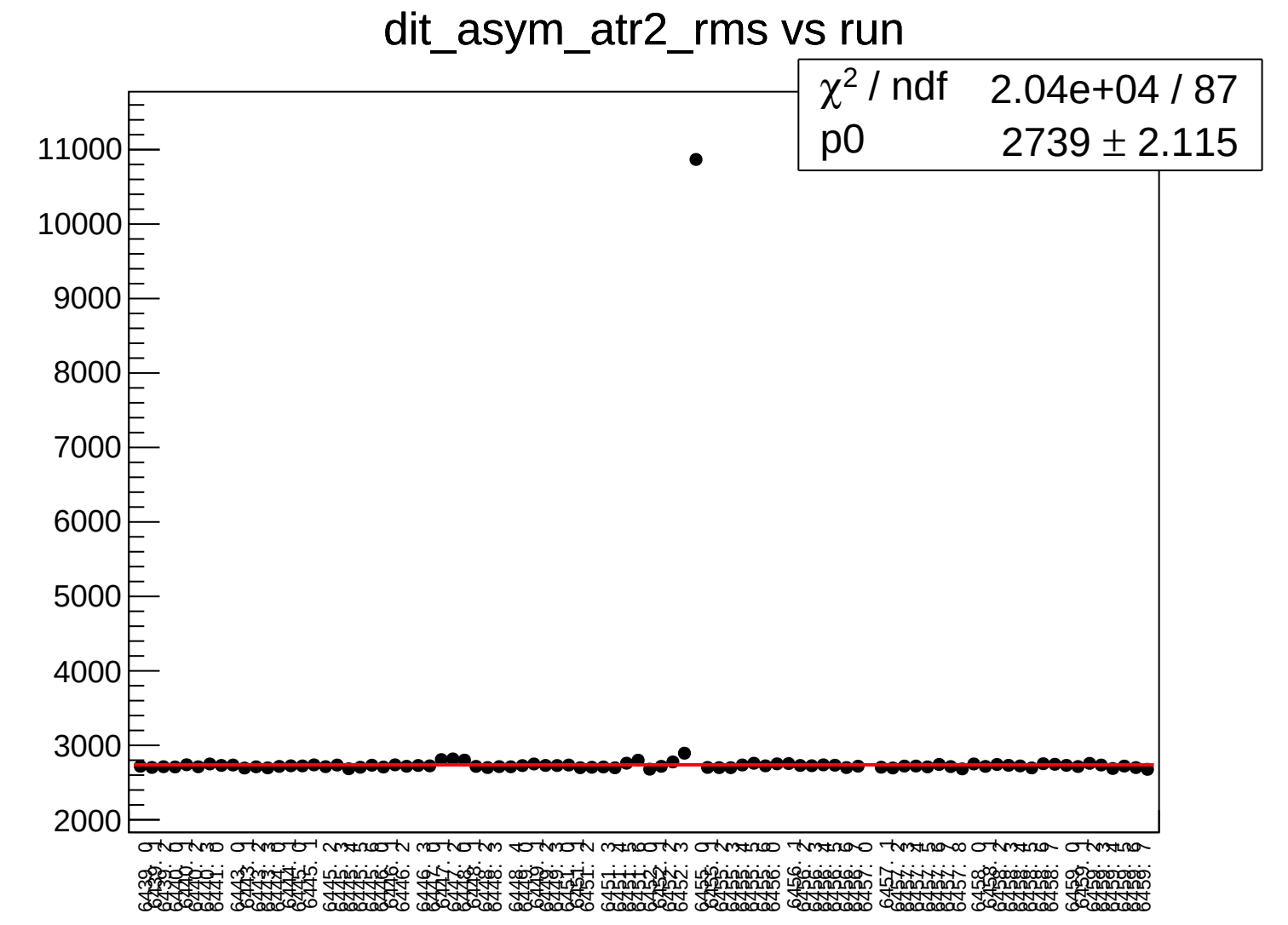

asym_atr1_mean vs run
×10^3
χ² / ndf 91.77 / 87
p0 2662 ± 3309
100
50
0
−50
−100
pull
Entries 88
Mean 614.8
Std Dev 579.2
2
1
0
−1
−2
−3

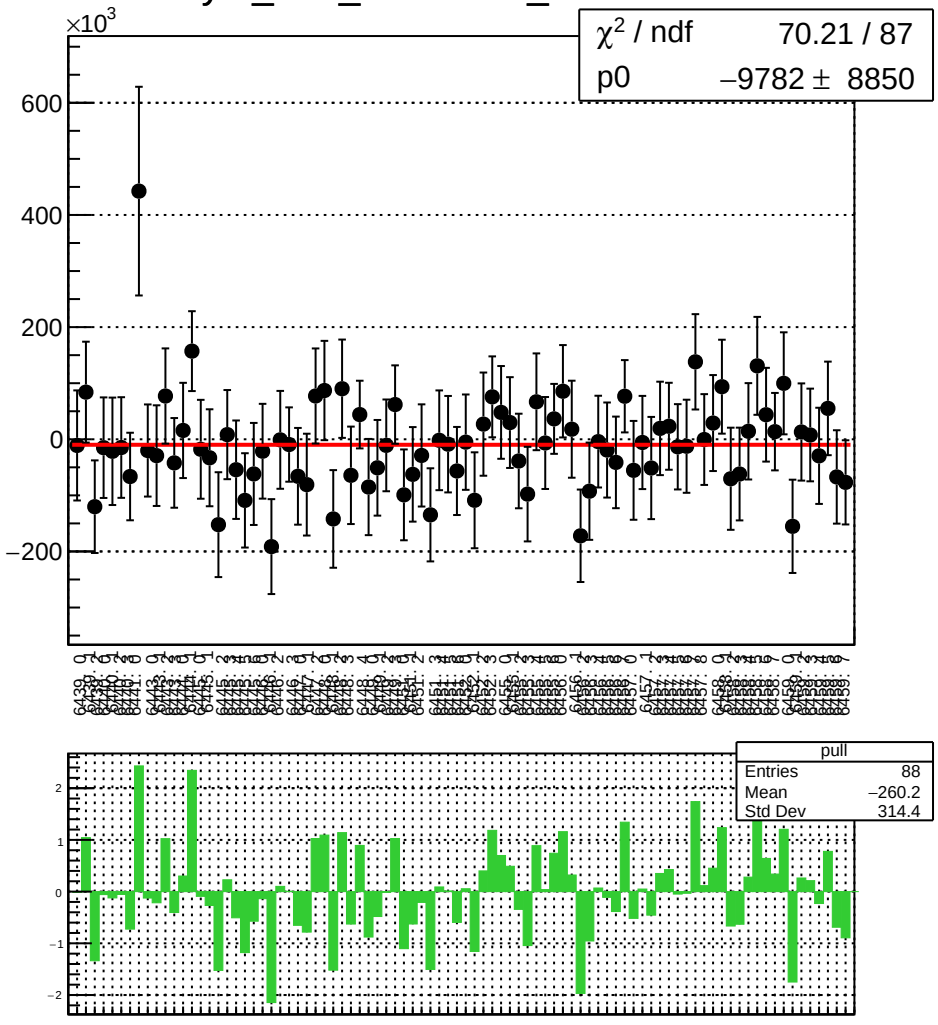

pull1D
Entries 88
Mean 0.004922
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

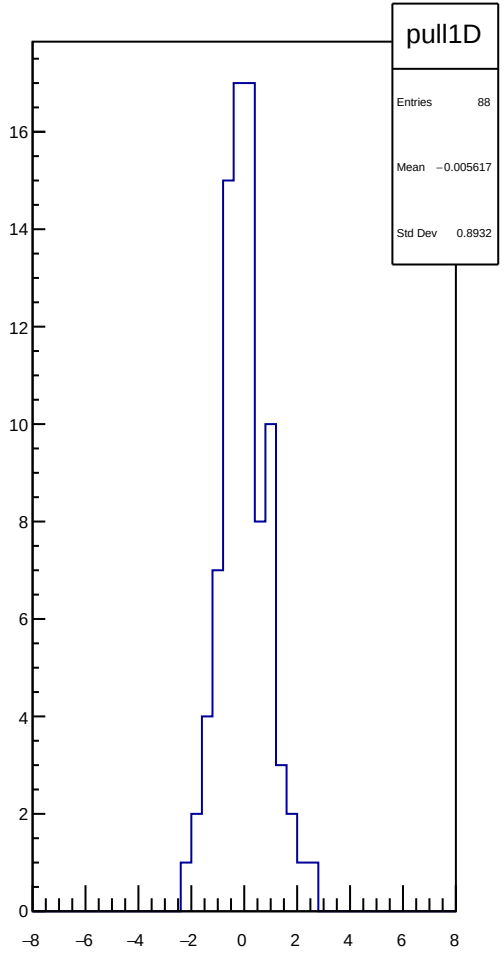

asym_atr1_rms vs run
χ^2 / ndf 331.8 / 87
p0 3048 ± 2.34
3200
3150
3100
3050
3000
2950
2900

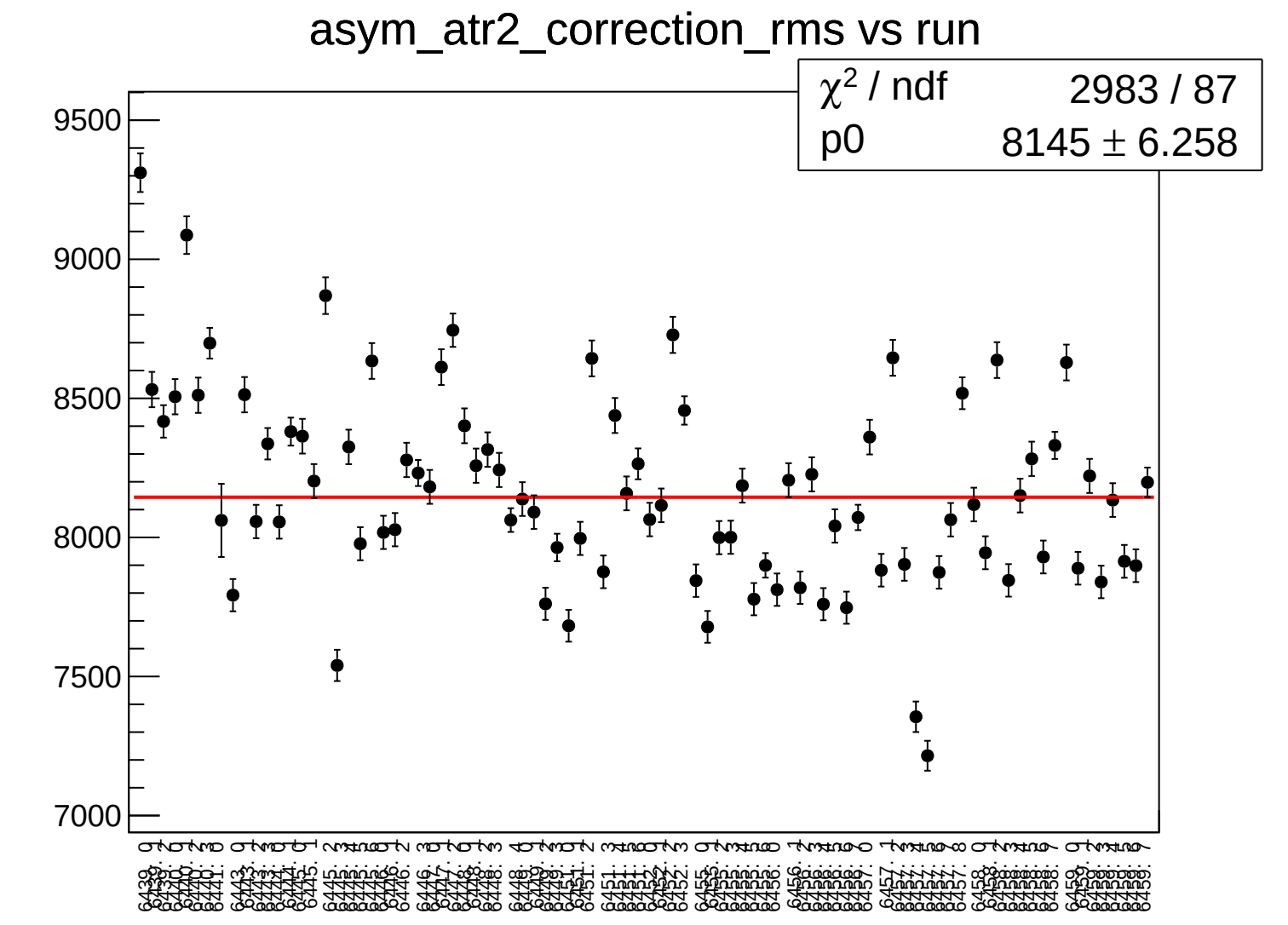

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 75.09 / 87
p0 4786 ± 2991
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −8.207
Std Dev 72.88
2
1
0
−1
−2
−3

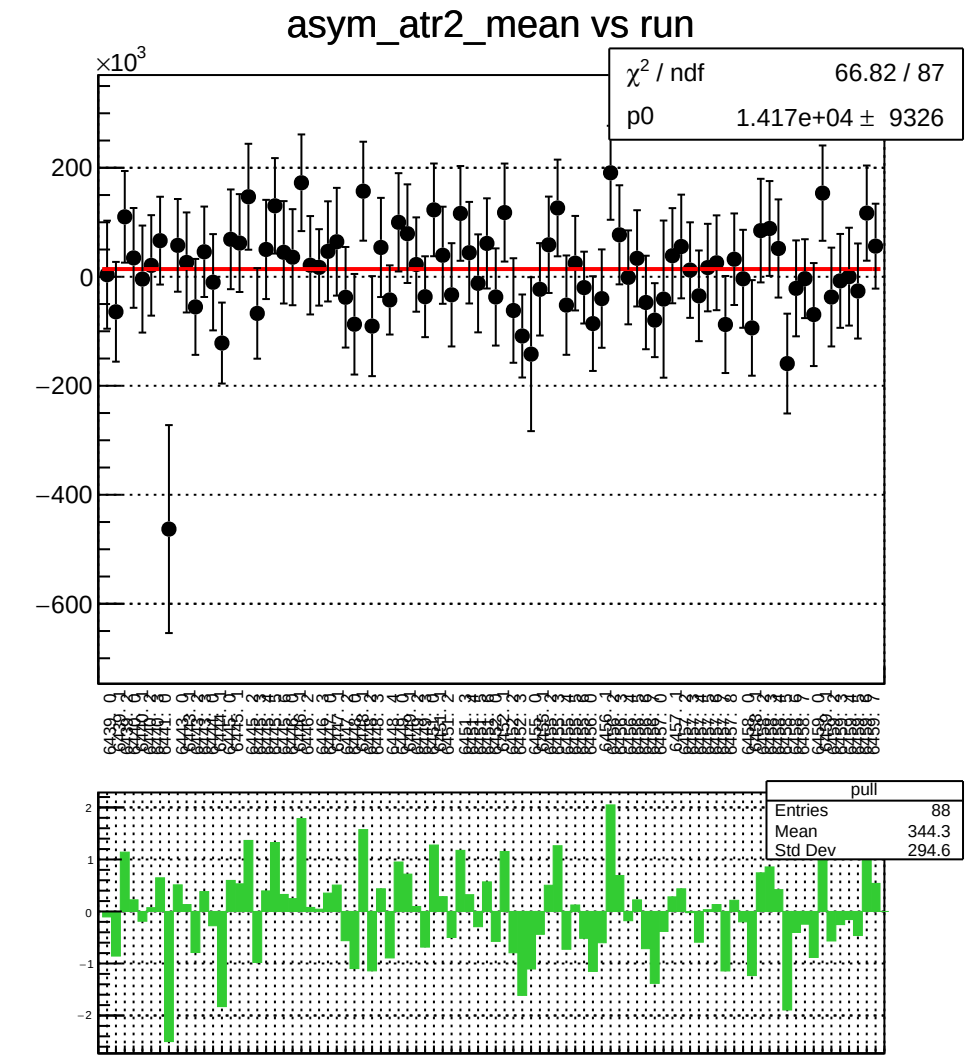

pull1D
Entries 88
Mean −0.02069
Std Dev 0.9235
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

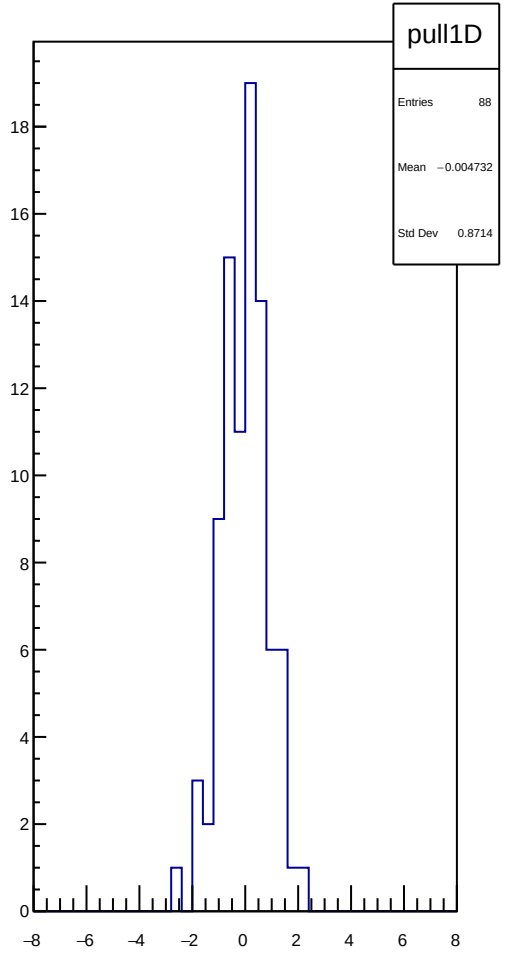

dit_asym_atr2_rms vs run
χ² / ndf 2.04e+04 / 87
p0 2739 ± 2.115
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

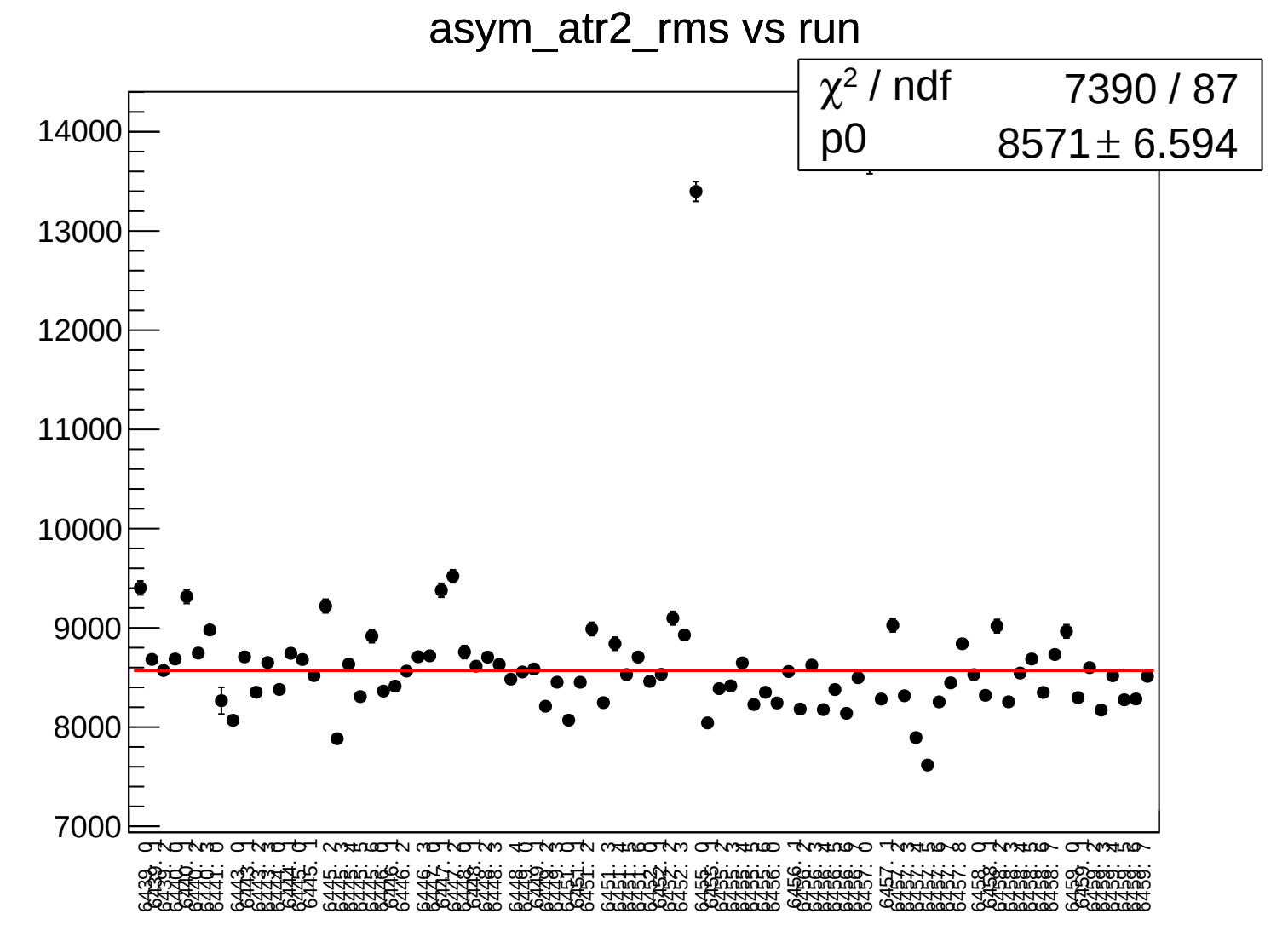

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 70.21 / 87
p0 −9782 ± 8850
600
400
200
0
−200
pull
Entries 88
Mean −260.2
Std Dev 314.4
2
1
0
−1
−2

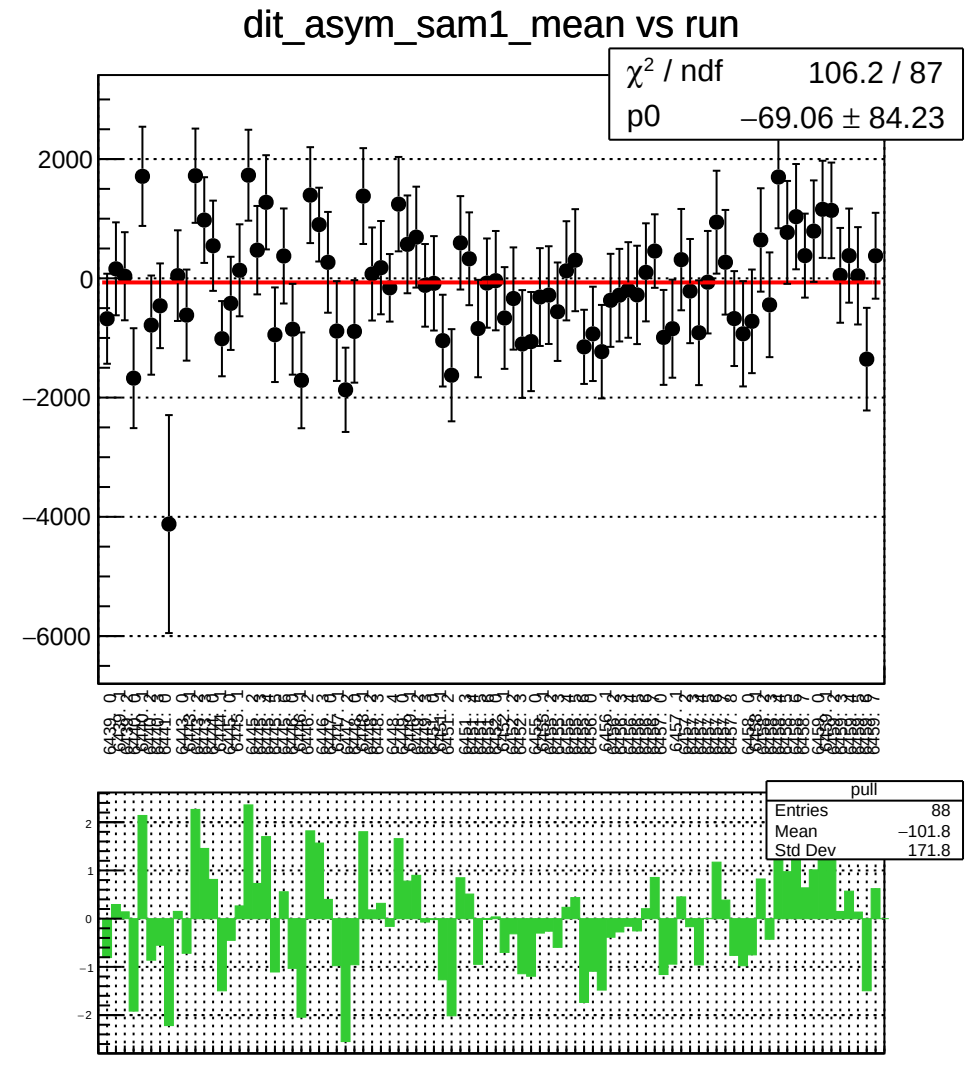

pull1D
Entries 88
Mean −0.005617
Std Dev 0.8932
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

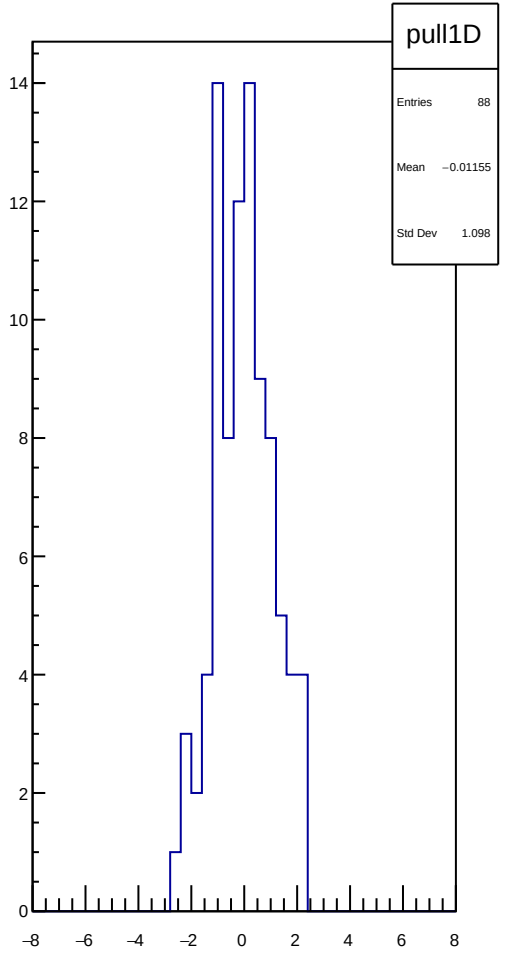

asym_atr2_correction_rms vs run
χ² / ndf 2983 / 87
p0 8145 ± 6.258
9500
9000
8500
8000
7500
7000

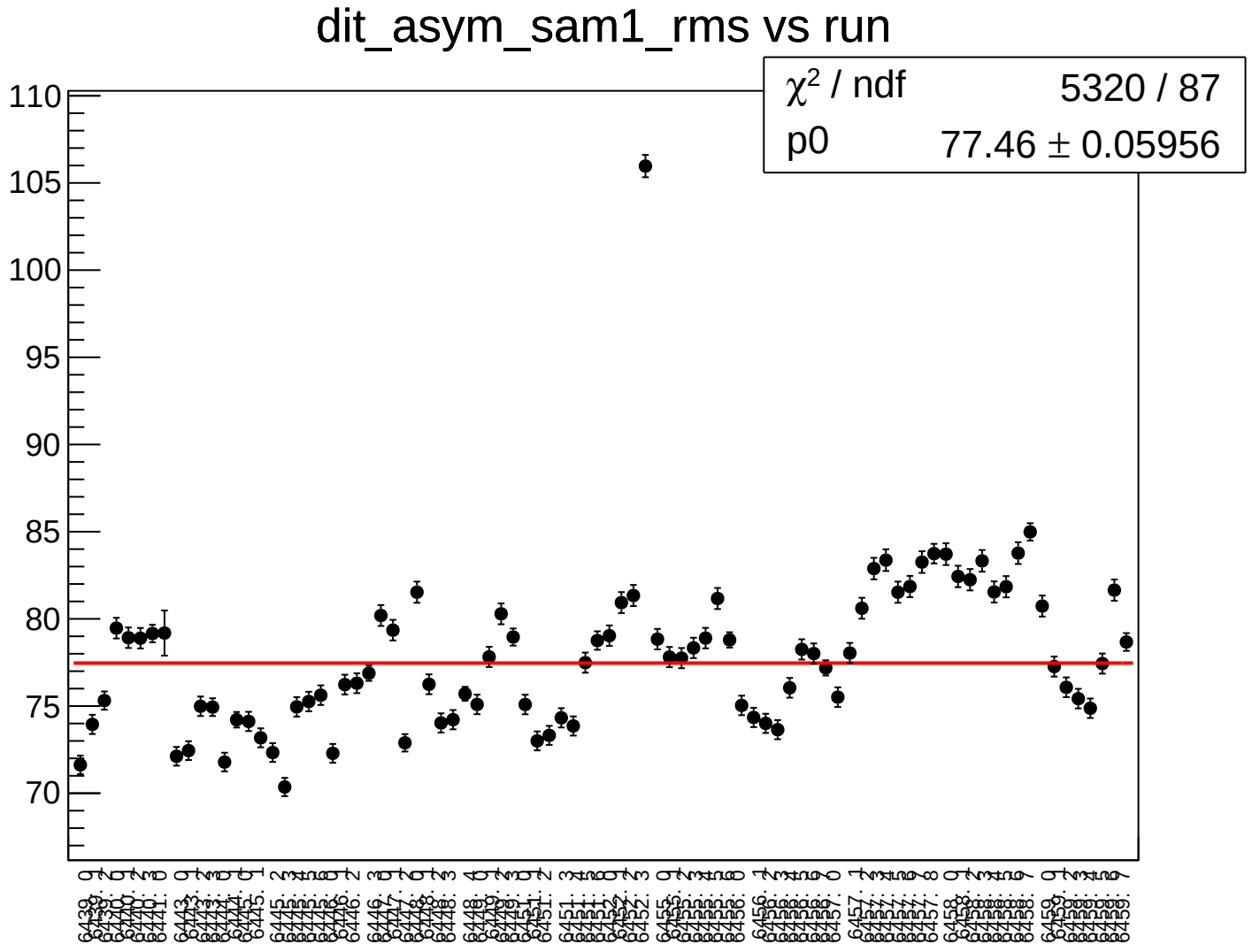

asym_atr2_mean vs run
×10^3
χ² / ndf 66.82 / 87
p0 1.417e+04 ± 9326
200
0
−200
−400
−600
pull
Entries 88
Mean 344.3
Std Dev 294.6
2
1
0
−1
−2

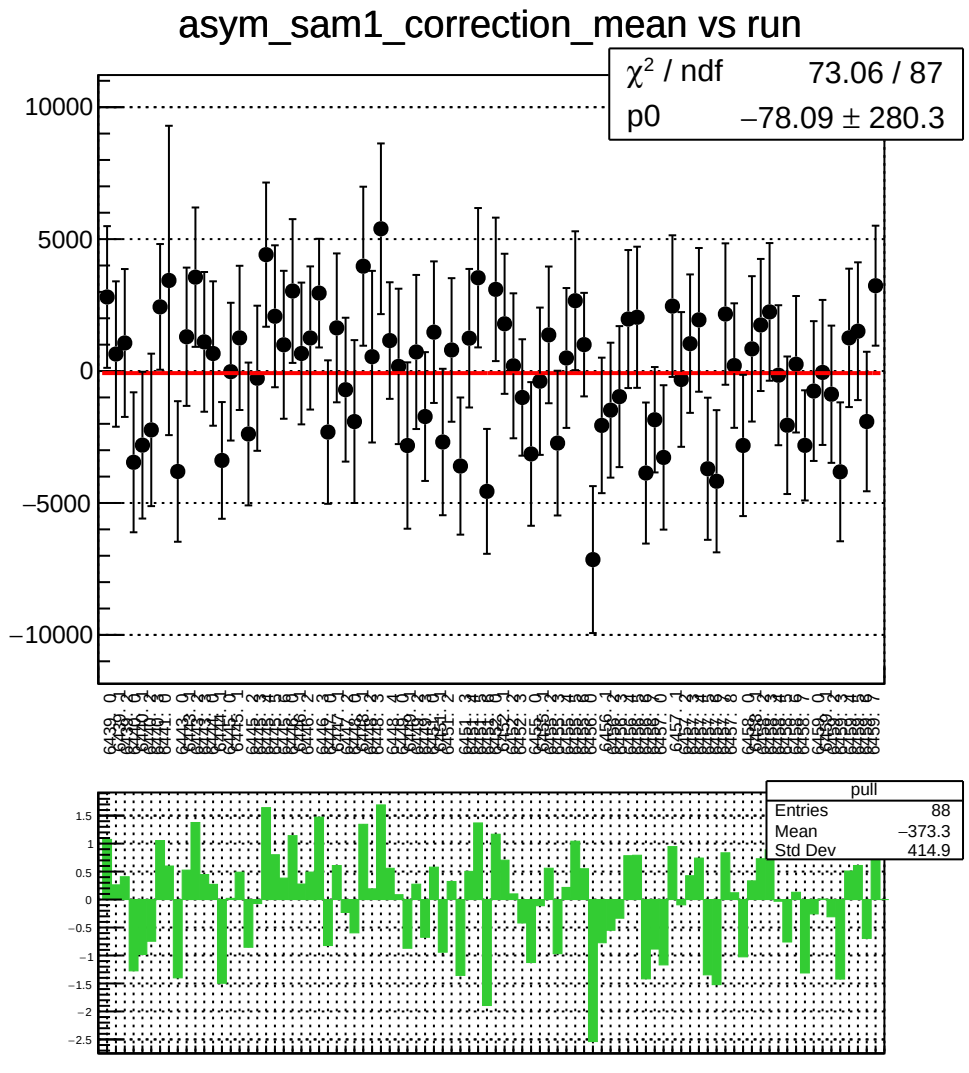

pull1D
Entries 88
Mean −0.004732
Std Dev 0.8714
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

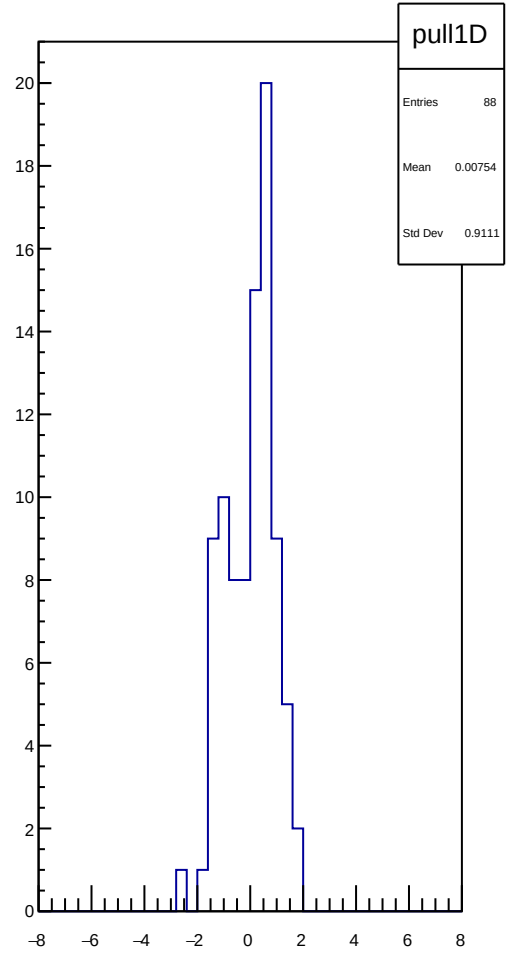

asym_atr2_rms vs run
χ^2 / ndf 7390 / 87
p0 8571 ± 6.594
14000
13000
12000
11000
10000
9000
8000
7000

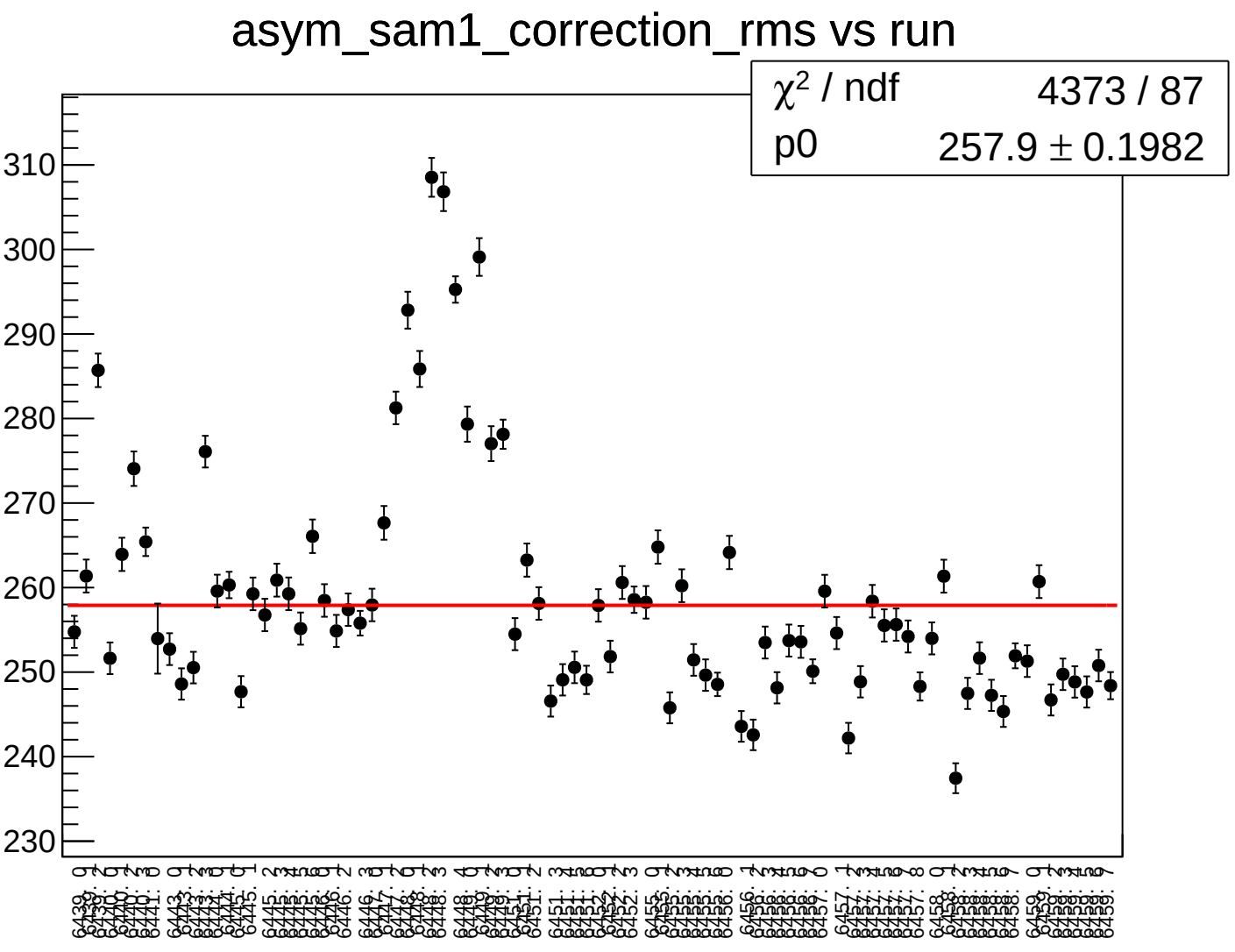

dit_asym_sam1_mean vs run
χ² / ndf 106.2 / 87
p0 −69.06 ± 84.23
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −101.8
Std Dev 171.8
2
1
0
−1
−2

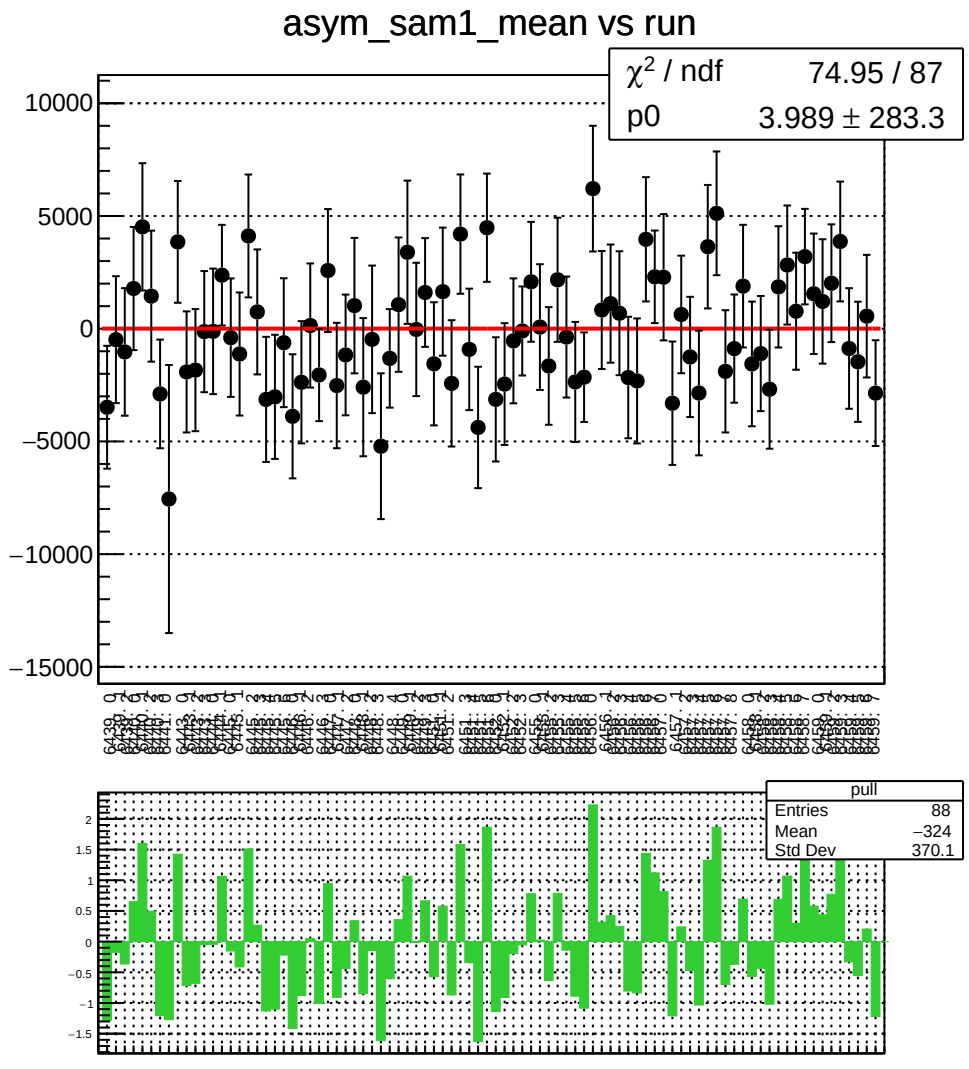

pull1D
Entries 88
Mean −0.01155
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

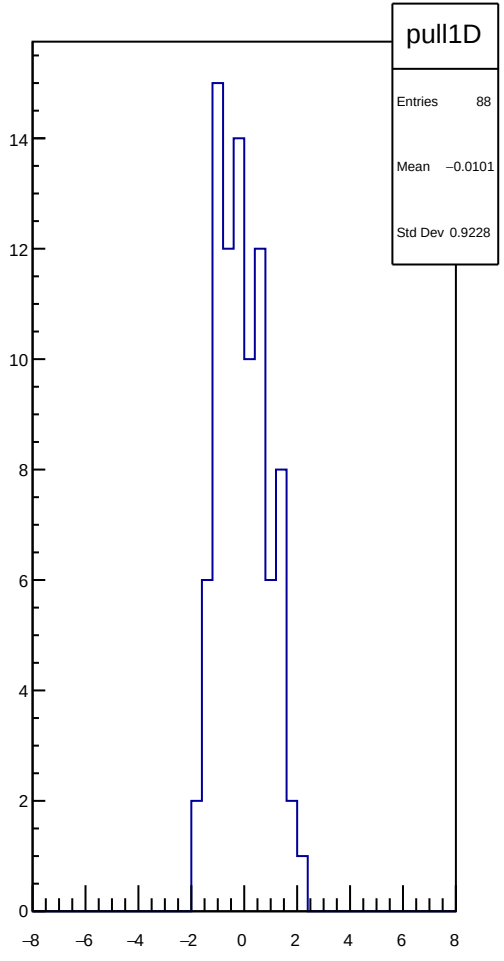

dit_asym_sam1_rms vs run
χ^2 / ndf 5320 / 87
p0 77.46 ± 0.05956
110
105
100
95
90
85
80
75
70

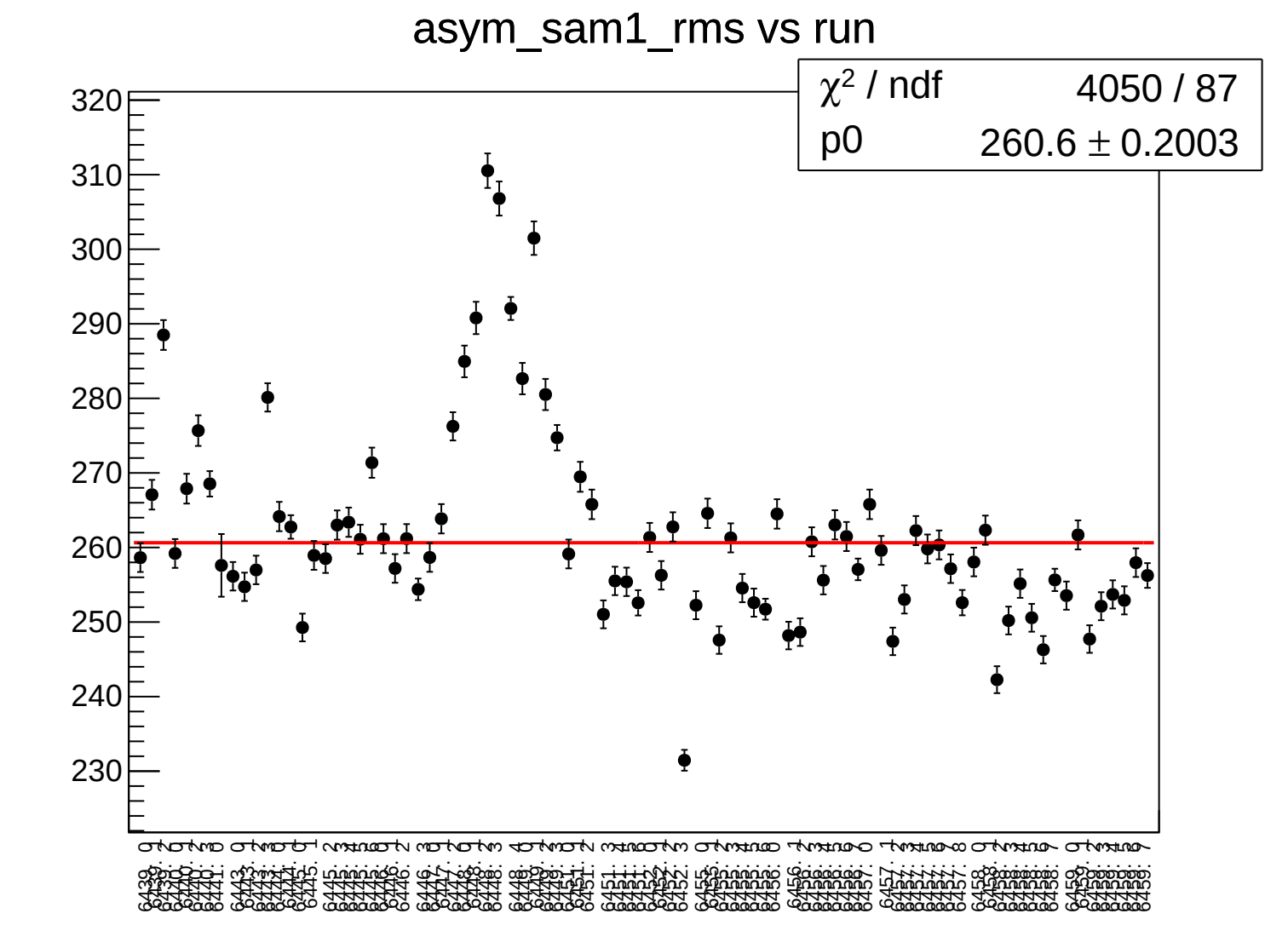

asym_sam1_correction_mean vs run
χ² / ndf 73.06 / 87
p0 −78.09 ± 280.3
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −373.3
Std Dev 414.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

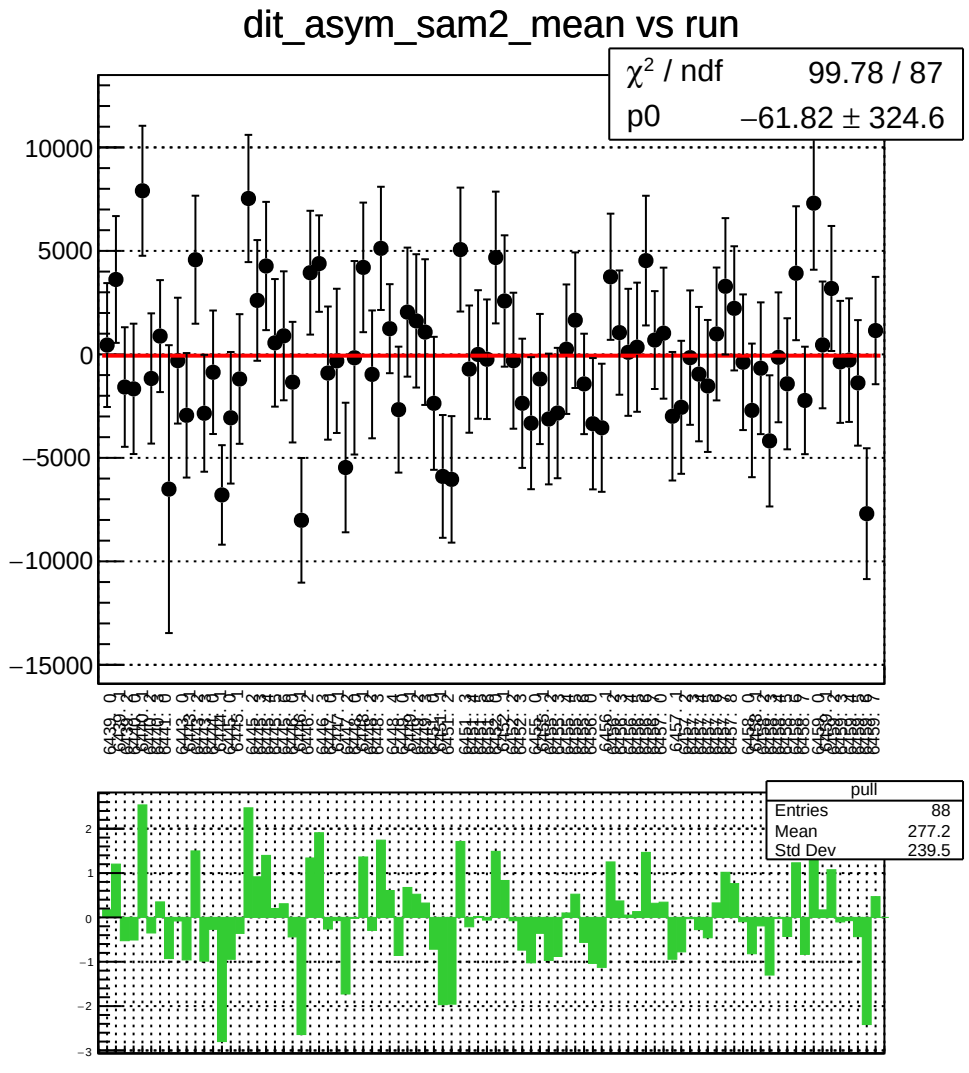

pull1D
Entries 88
Mean 0.00754
Std Dev 0.9111
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

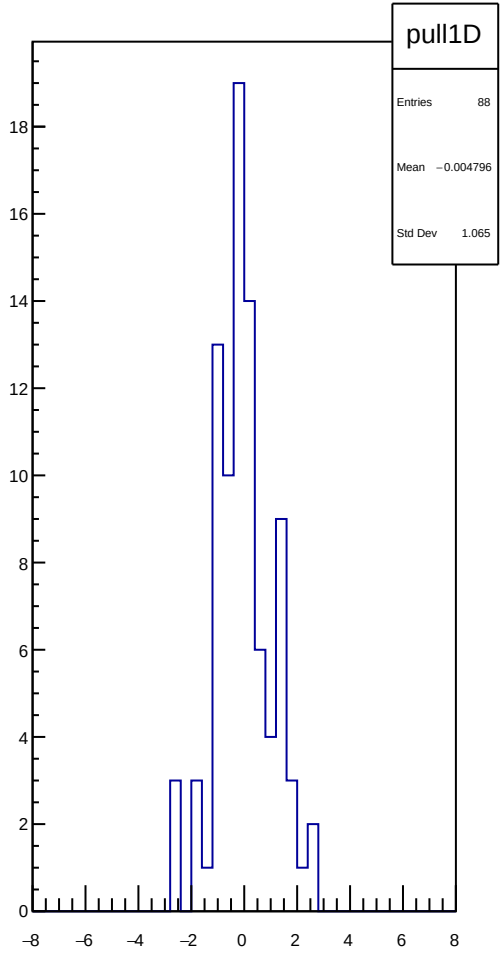

asym_sam1_correction_rms vs run
χ² / ndf 4373 / 87
p0 257.9 ± 0.1982
310
300
290
280
270
260
250
240
230

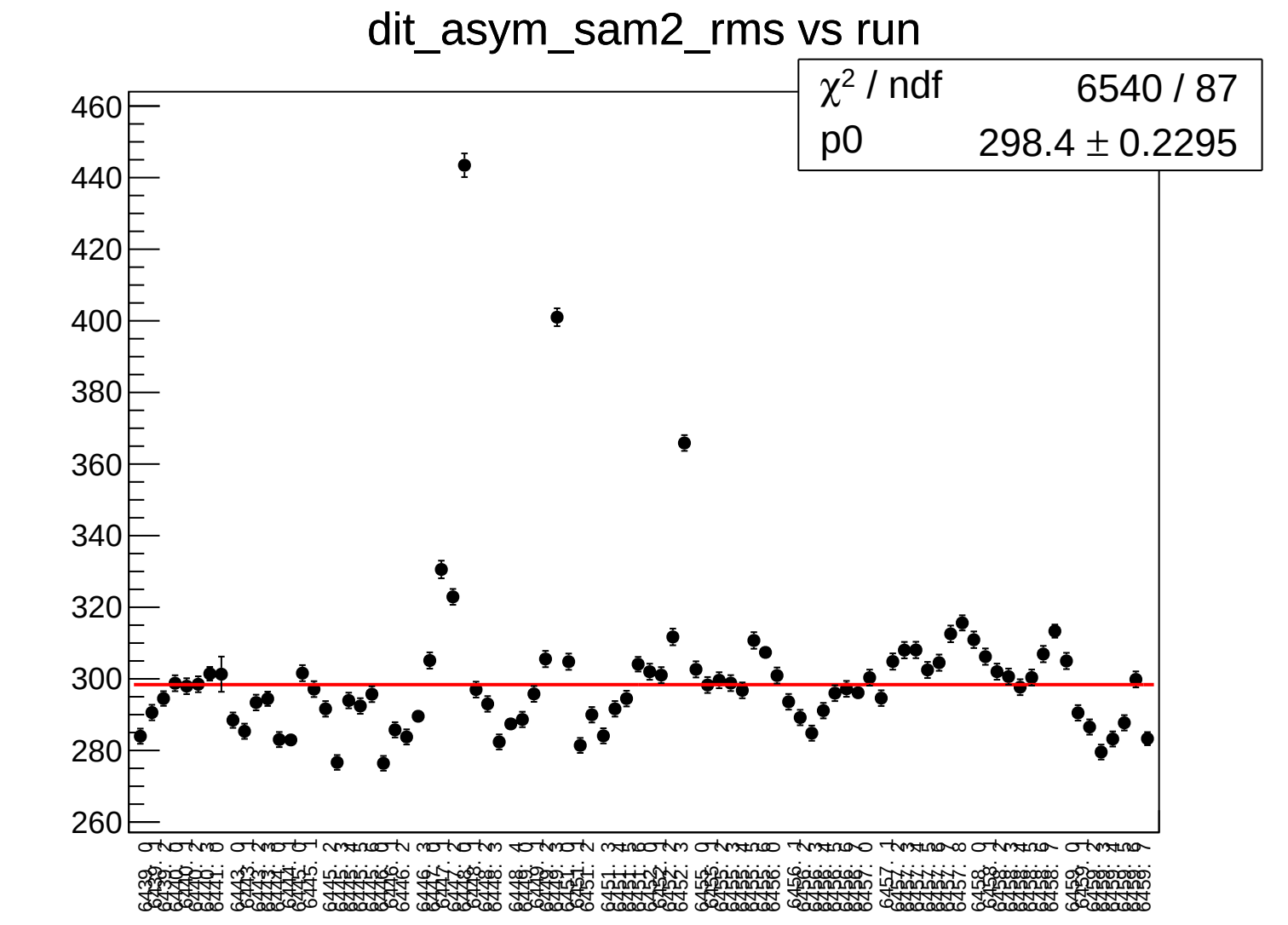

asym_sam1_mean vs run
χ^2 / ndf 74.95 / 87
p0 3.989 ± 283.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −324
Std Dev 370.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

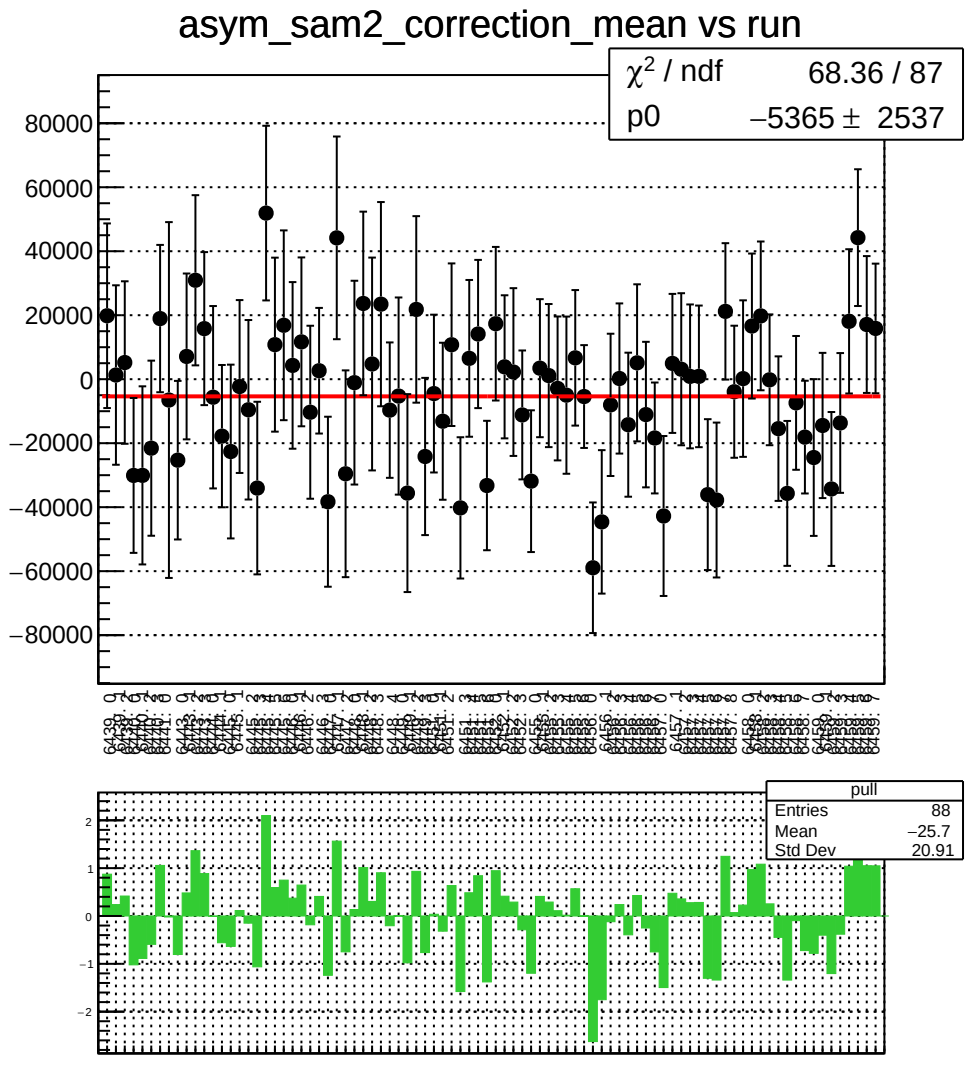

pull1D
Entries 88
Mean −0.0101
Std Dev 0.9228
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

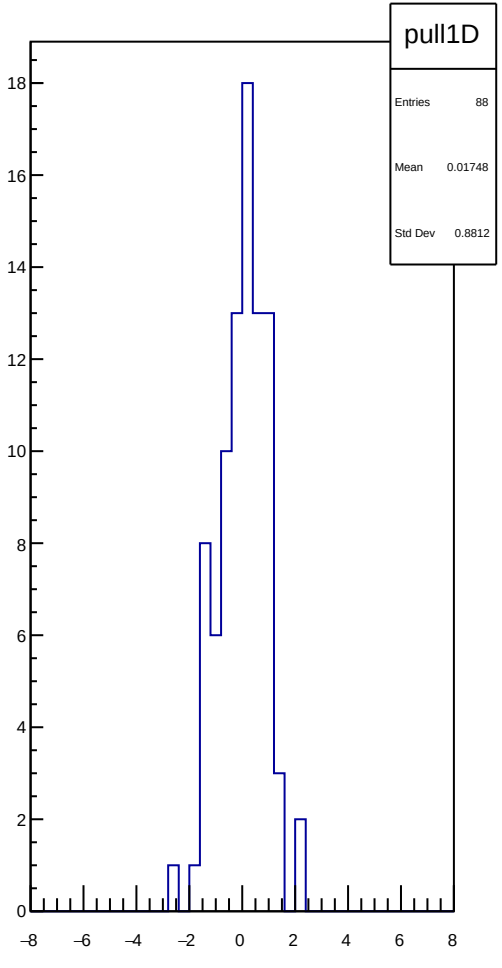

asym_sam1_rms vs run
χ² / ndf 4050 / 87
p0 260.6 ± 0.2003
320
310
300
290
280
270
260
250
240
230

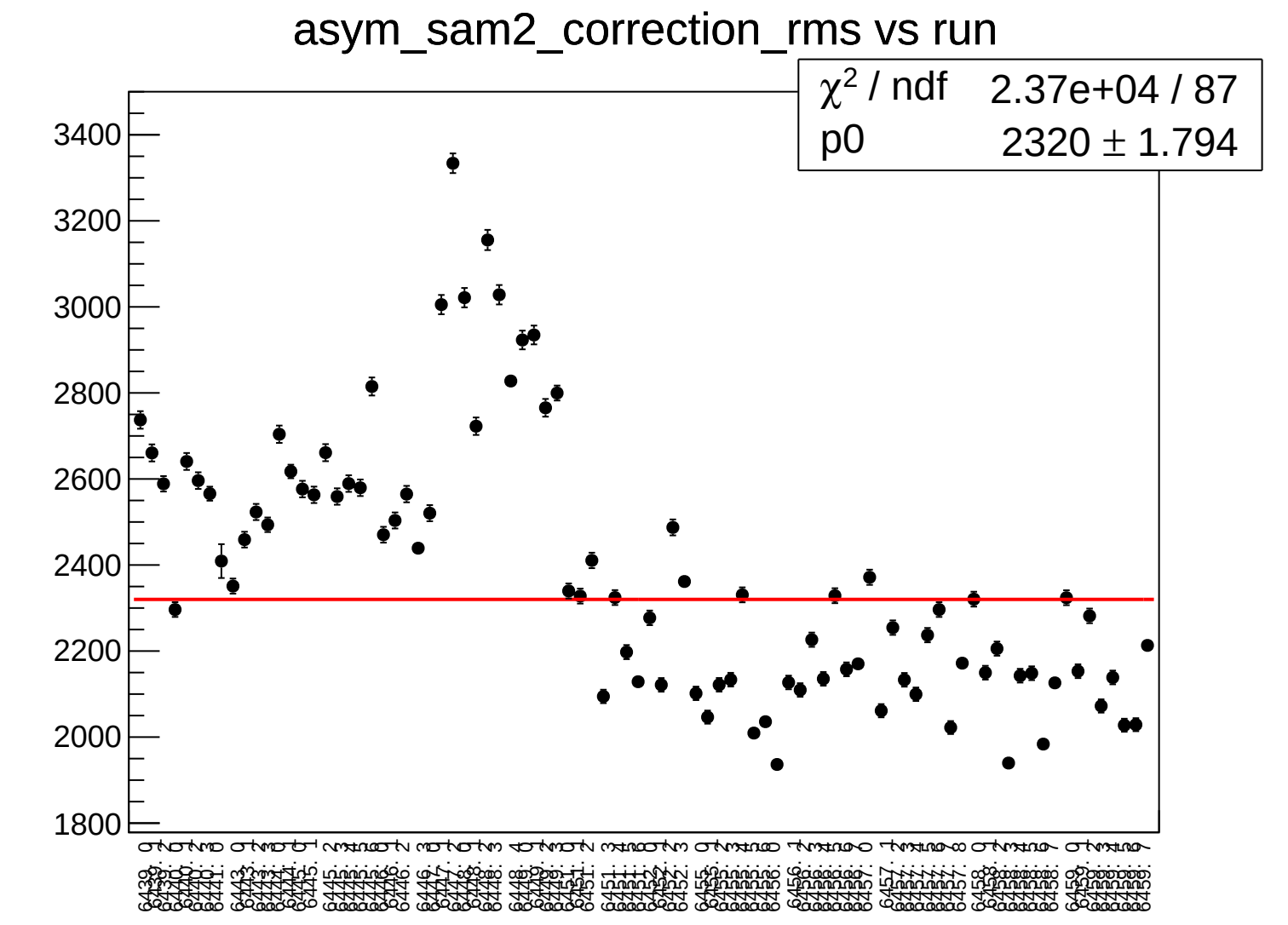

dit_asym_sam2_mean vs run
χ² / ndf 99.78 / 87
p0 −61.82 ± 324.6
pull
Entries 88
Mean 277.2
Std Dev 239.5

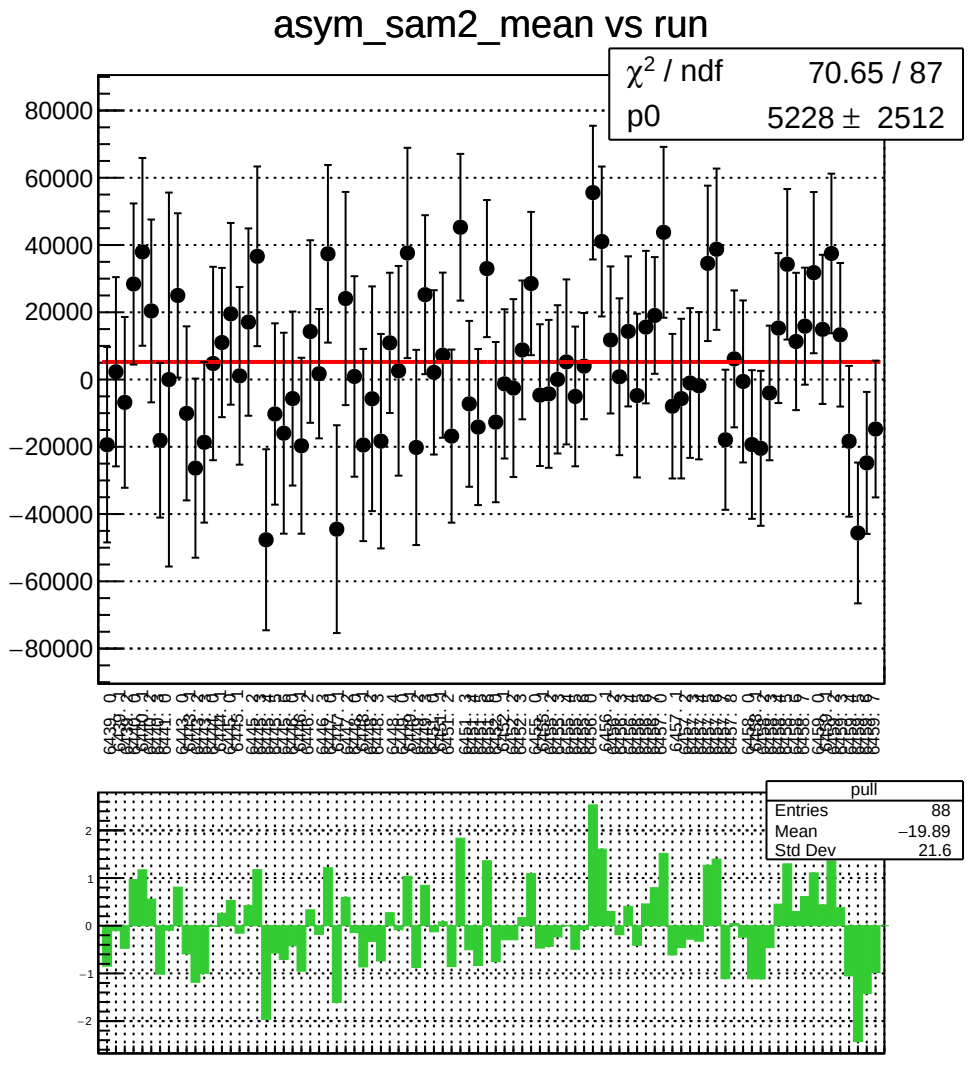

pull1D
Entries 88
Mean −0.004796
Std Dev 1.065

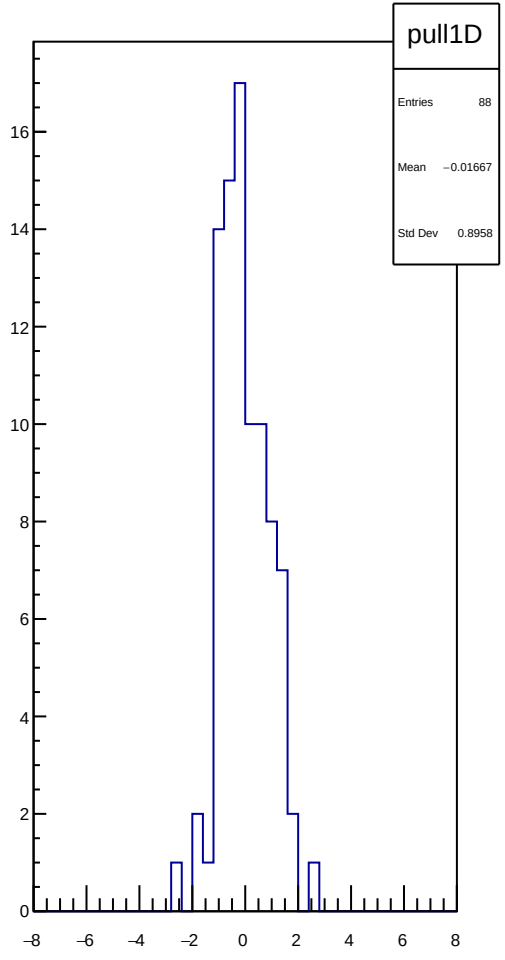

dit_asym_sam2_rms vs run
χ² / ndf 6540 / 87
p0 298.4 ± 0.2295
460
440
420
400
380
360
340
320
300
280
260

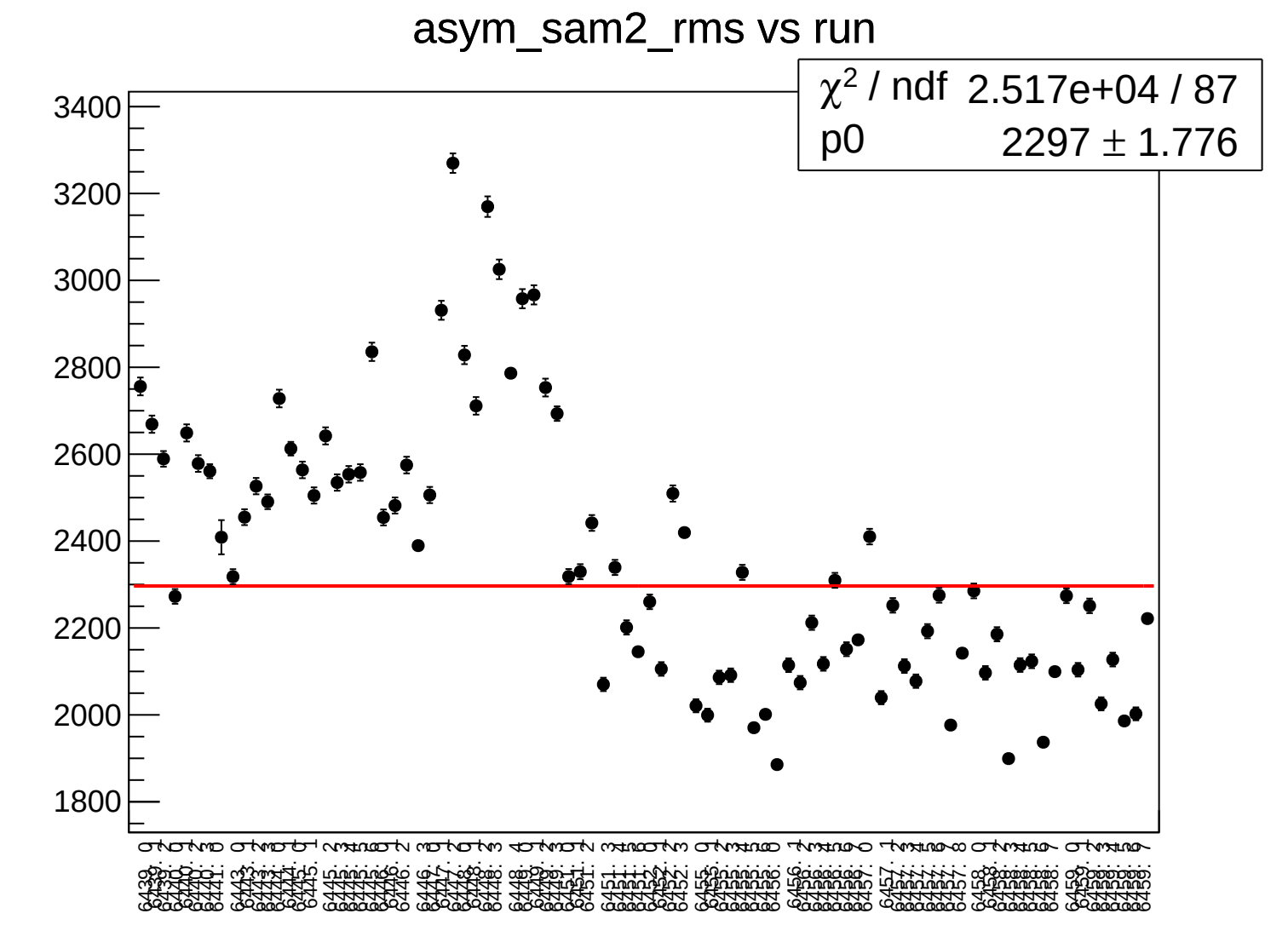

asym_sam2_correction_mean vs run
χ² / ndf 68.36 / 87
p0 −5365 ± 2537
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −25.7
Std Dev 20.91
2
1
0
−1
−2

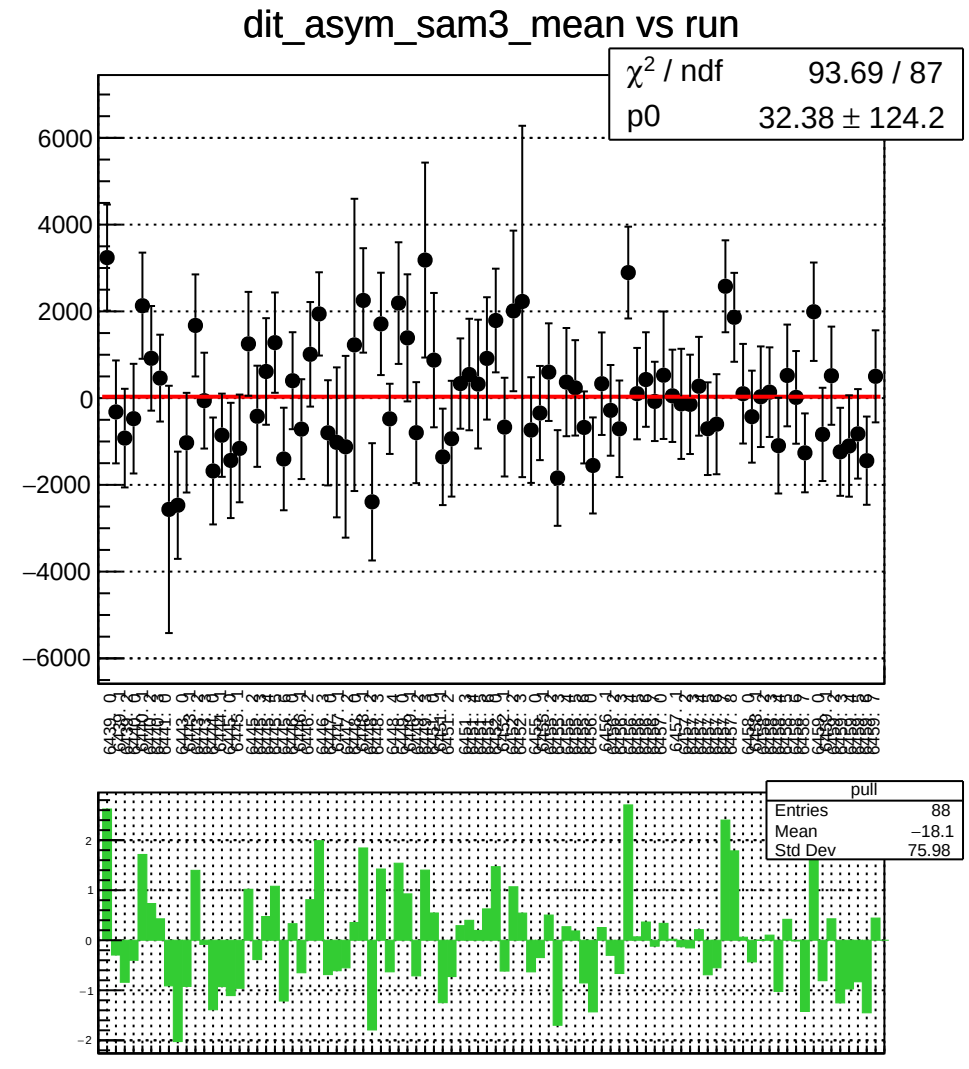

pull1D
Entries 88
Mean 0.01748
Std Dev 0.8812
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

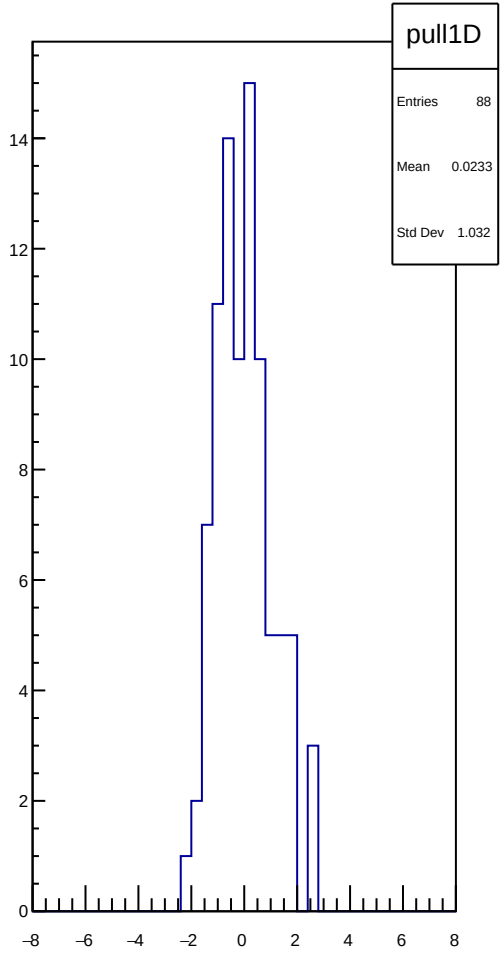

asym_sam2_correction_rms vs run
χ² / ndf 2.37e+04 / 87
p0 2320 ± 1.794
3400
3200
3000
2800
2600
2400
2200
2000
1800

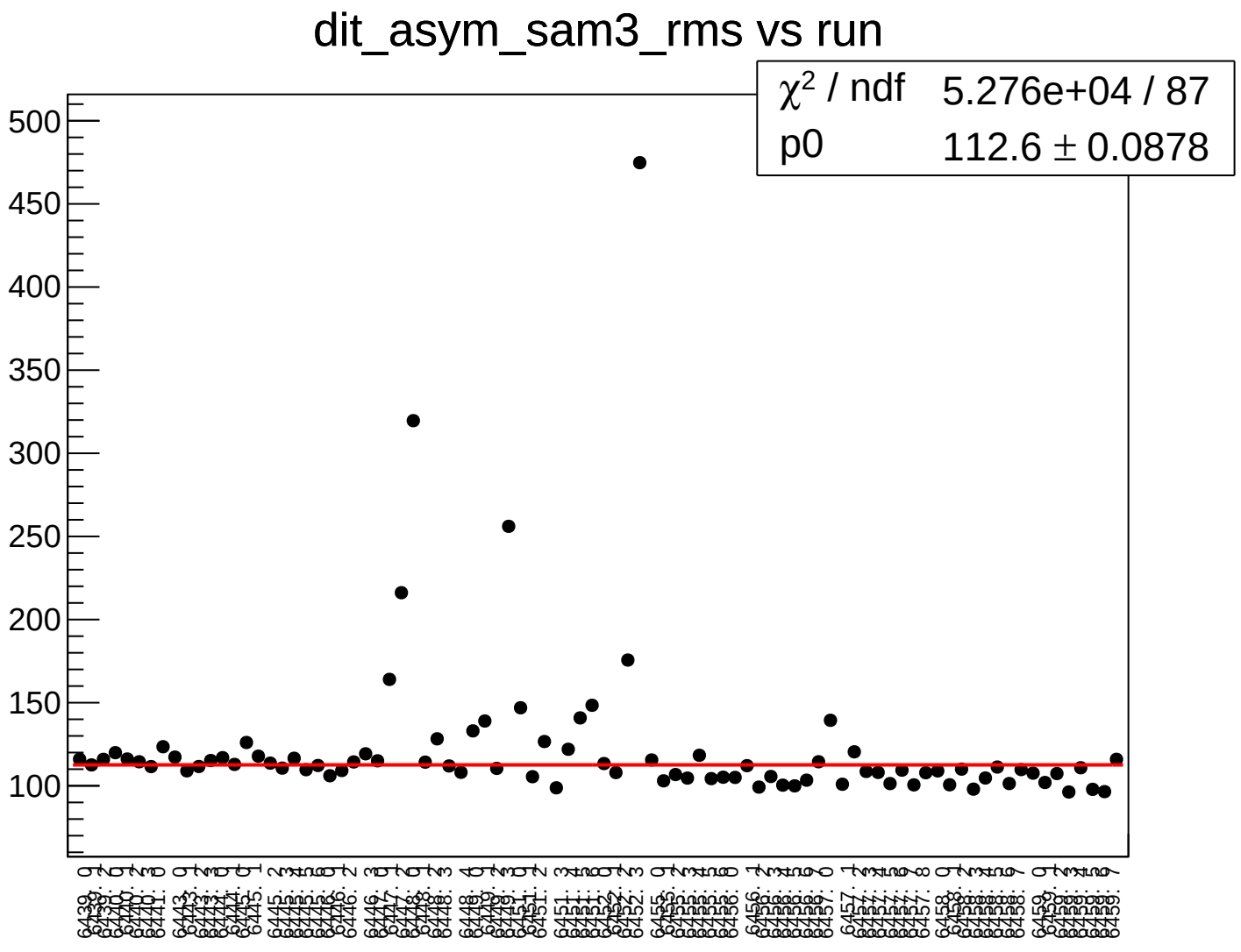

asym_sam2_mean vs run
χ² / ndf 70.65 / 87
p0 5228 ± 2512
pull
Entries 88
Mean −19.89
Std Dev 21.6

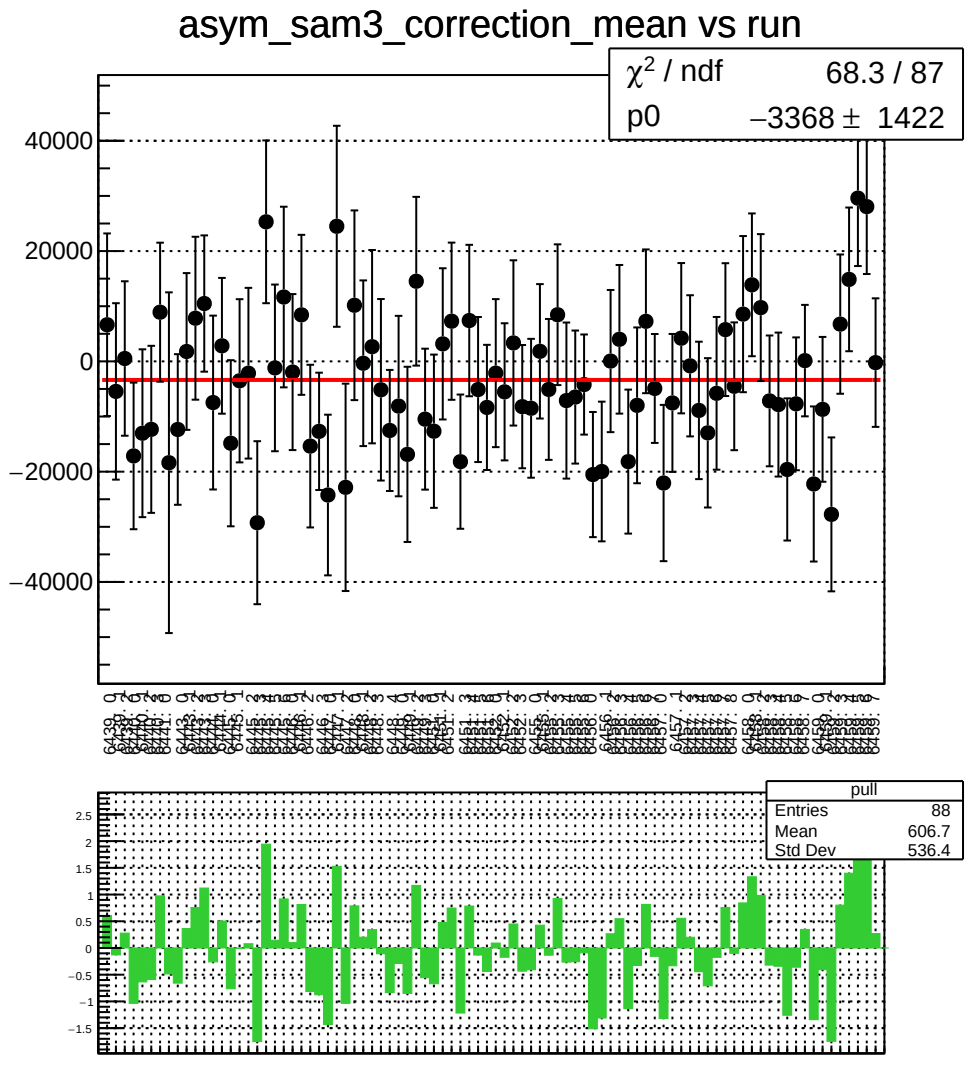

pull1D
Entries 88
Mean −0.01667
Std Dev 0.8958

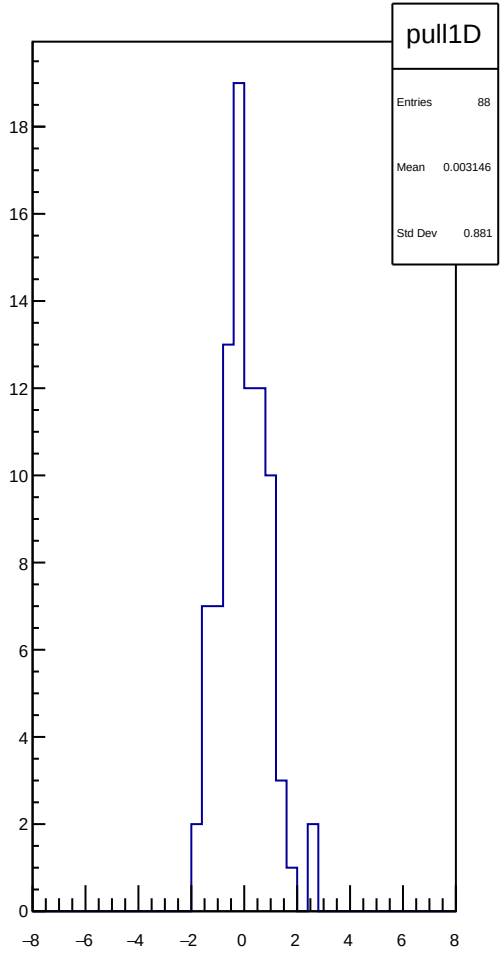

asym_sam2_rms vs run
χ² / ndf 2.517e+04 / 87
p0 2297 ± 1.776
3400
3200
3000
2800
2600
2400
2200
2000
1800

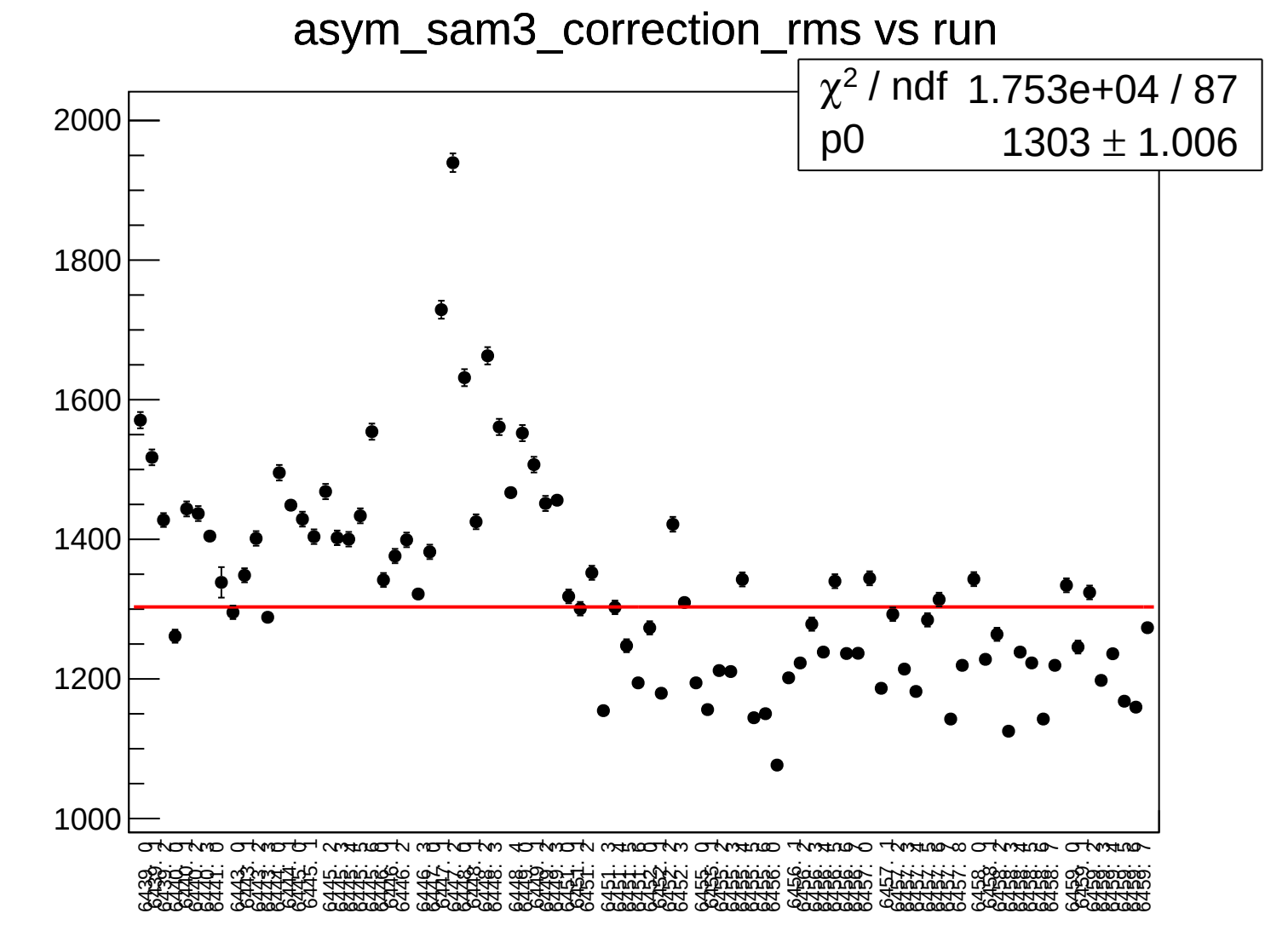

dit_asym_sam3_mean vs run
χ^2 / ndf 93.69 / 87
p0 32.38 ± 124.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −18.1
Std Dev 75.98
2
1
0
−1
−2

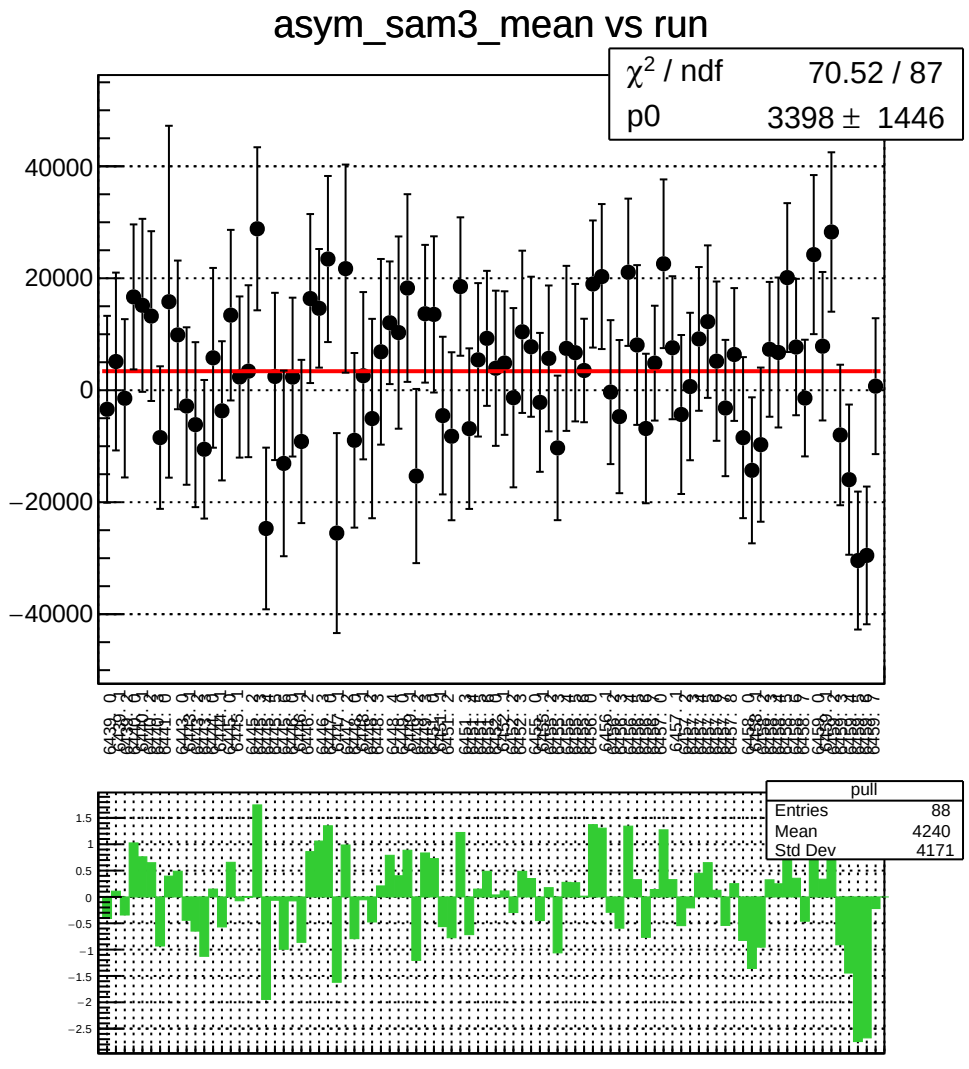

pull1D
Entries 88
Mean 0.0233
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

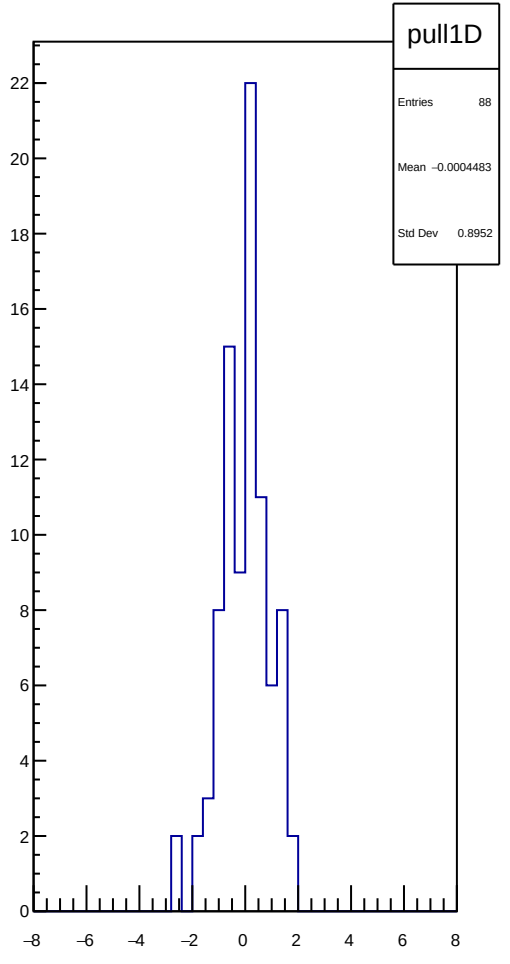

dit_asym_sam3_rms vs run
χ^2 / ndf 5.276e+04 / 87
p0 112.6 ± 0.0878
500
450
400
350
300
250
200
150
100

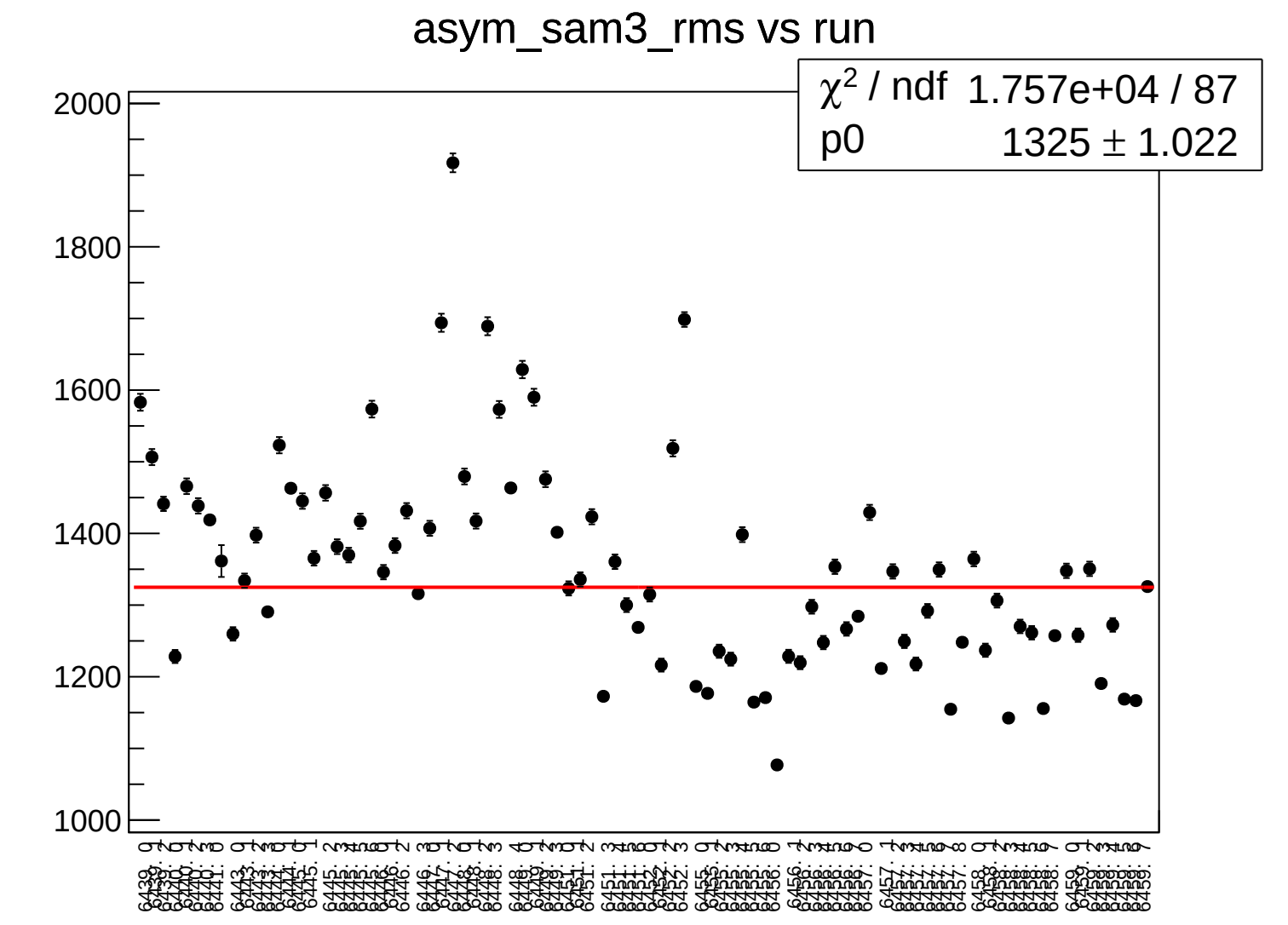

asym_sam3_correction_mean vs run
χ² / ndf 68.3 / 87
p0 −3368 ± 1422
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 606.7
Std Dev 536.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

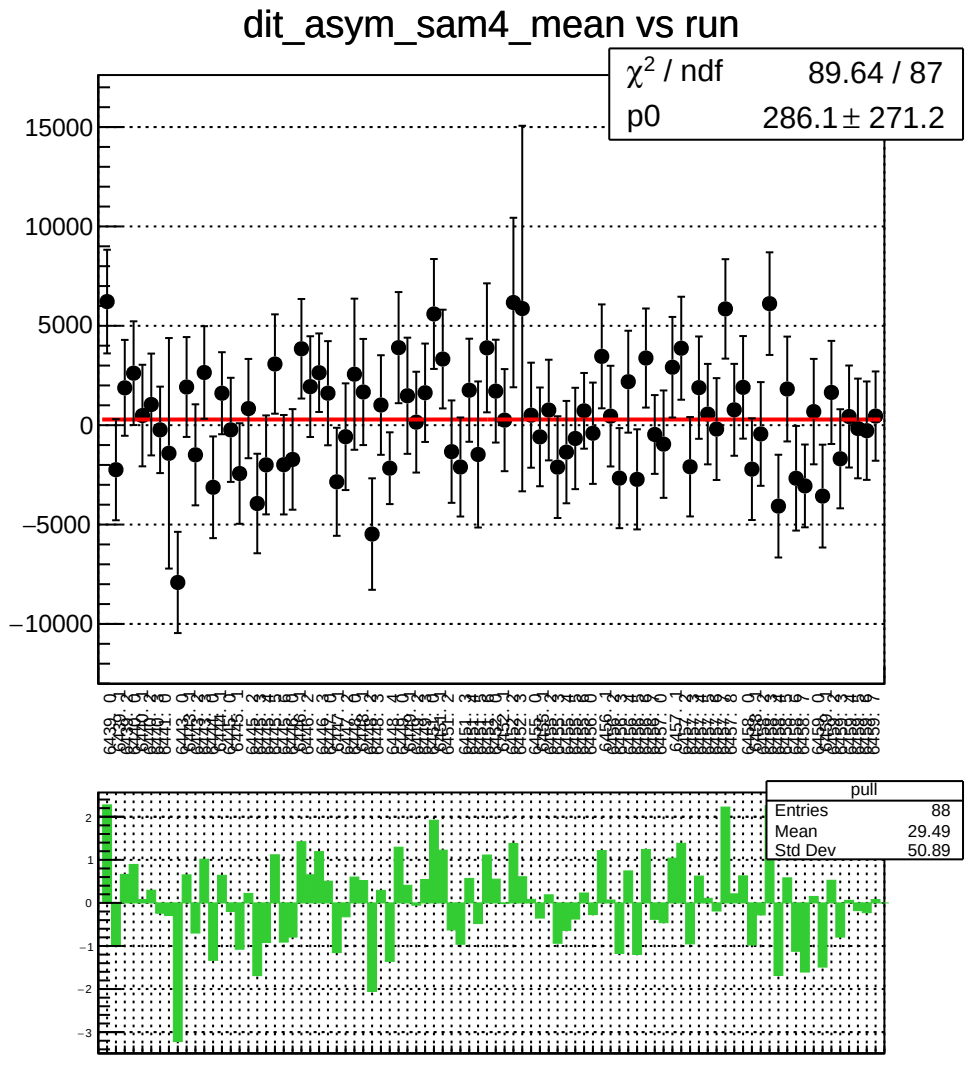

pull1D
Entries 88
Mean 0.003146
Std Dev 0.881
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

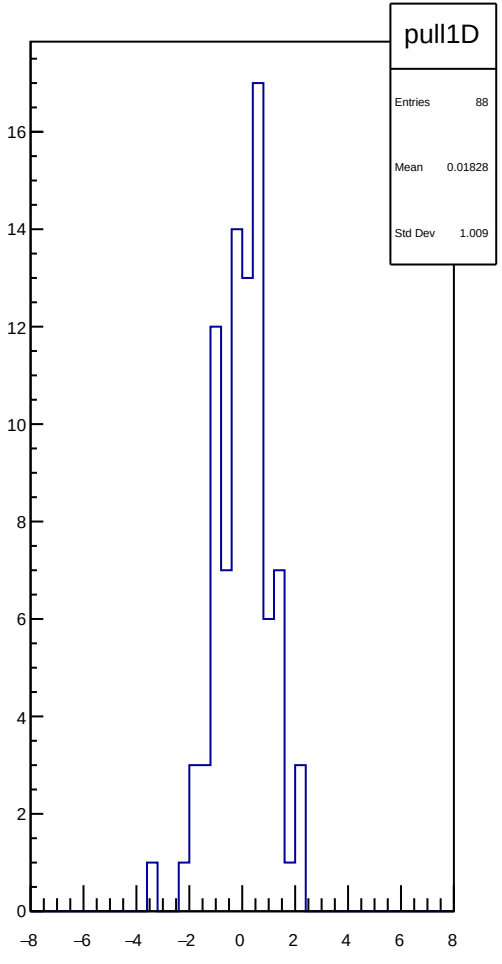

asym_sam3_correction_rms vs run
χ² / ndf 1.753e+04 / 87
p0 1303 ± 1.006
2000
1800
1600
1400
1200
1000

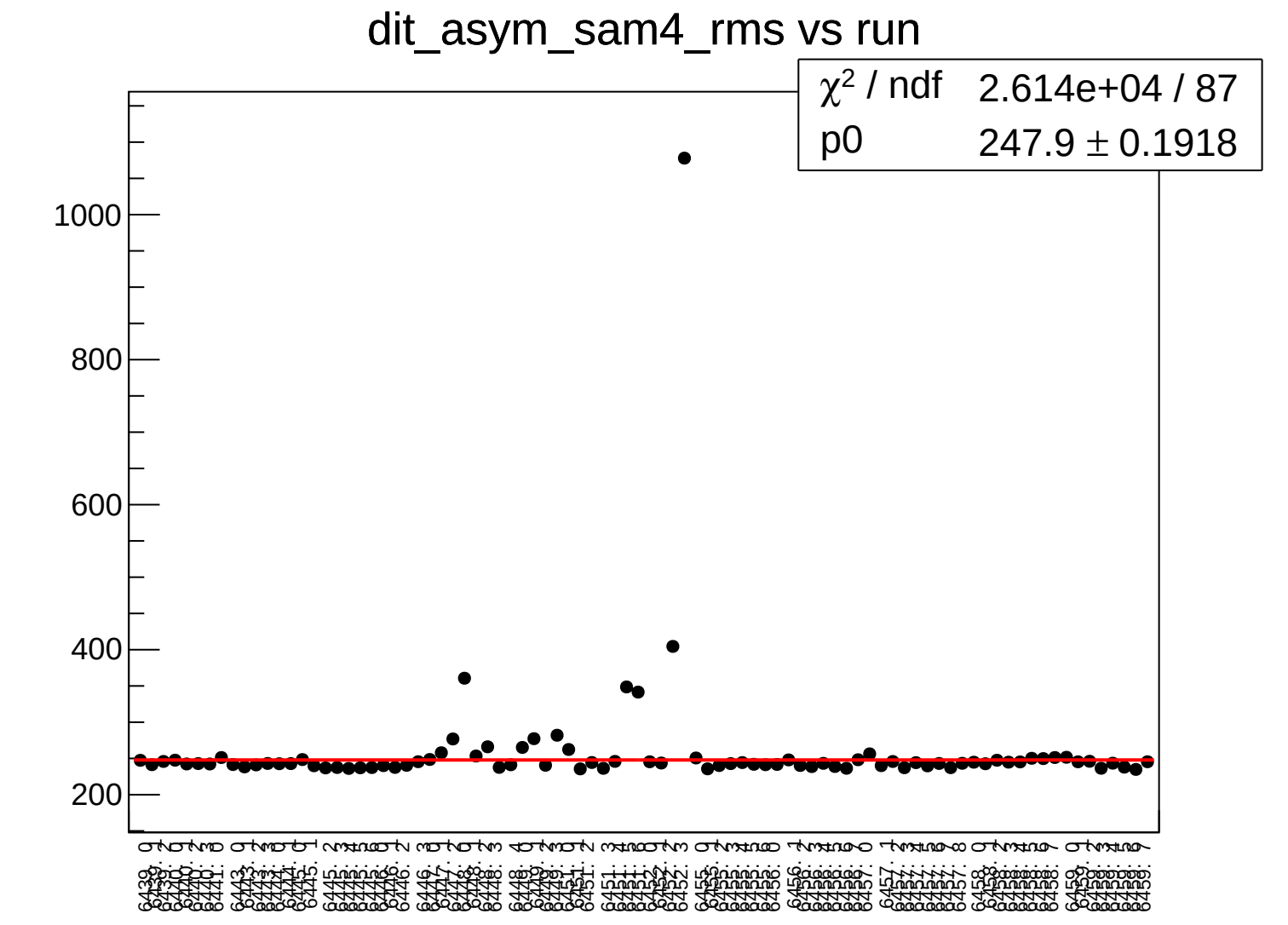

asym_sam3_mean vs run
χ² / ndf 70.52 / 87
p0 3398 ± 1446
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 4240
Std Dev 4171
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

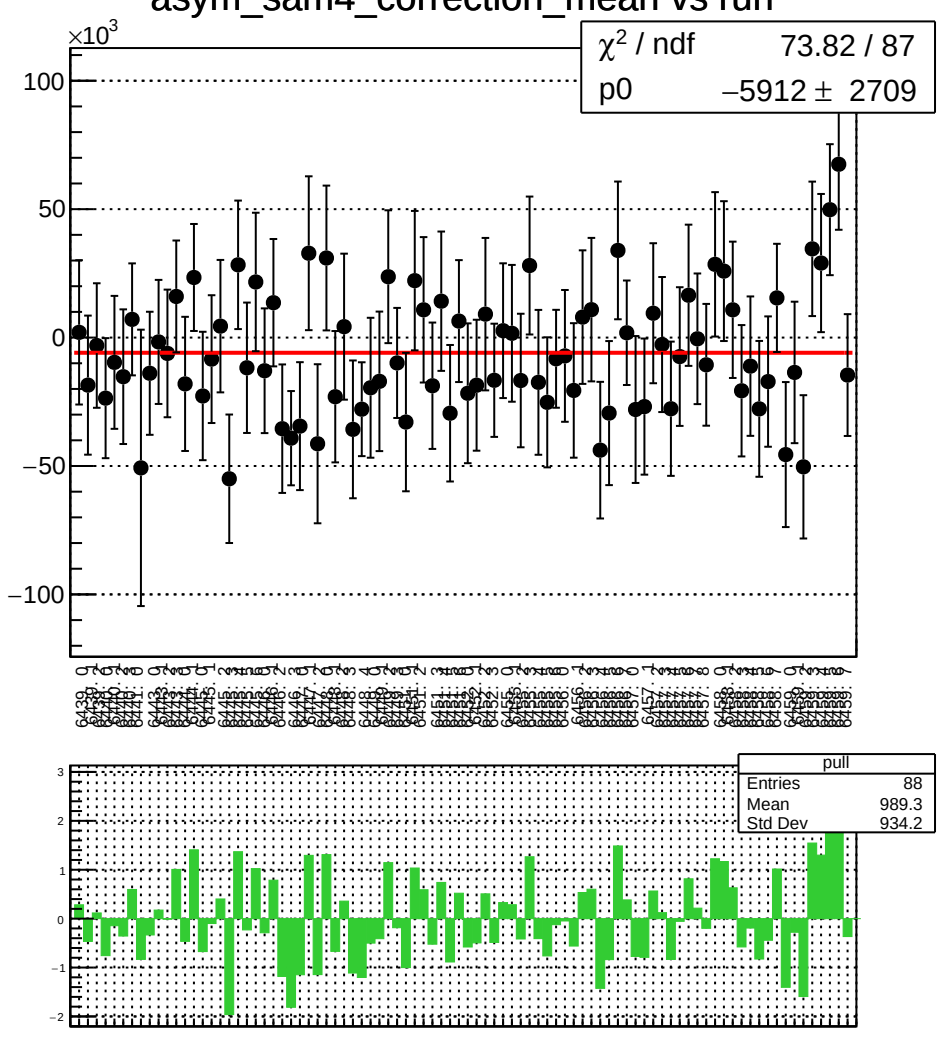

pull1D
Entries 88
Mean −0.0004483
Std Dev 0.8952
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

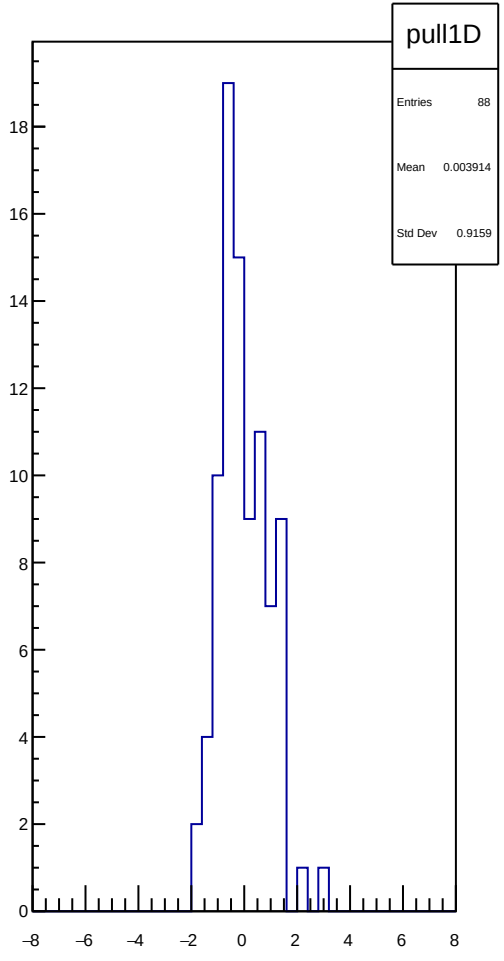

asym_sam3_rms vs run
χ^2 / ndf 1.757e+04 / 87
p0 1325 ± 1.022
2000
1800
1600
1400
1200
1000

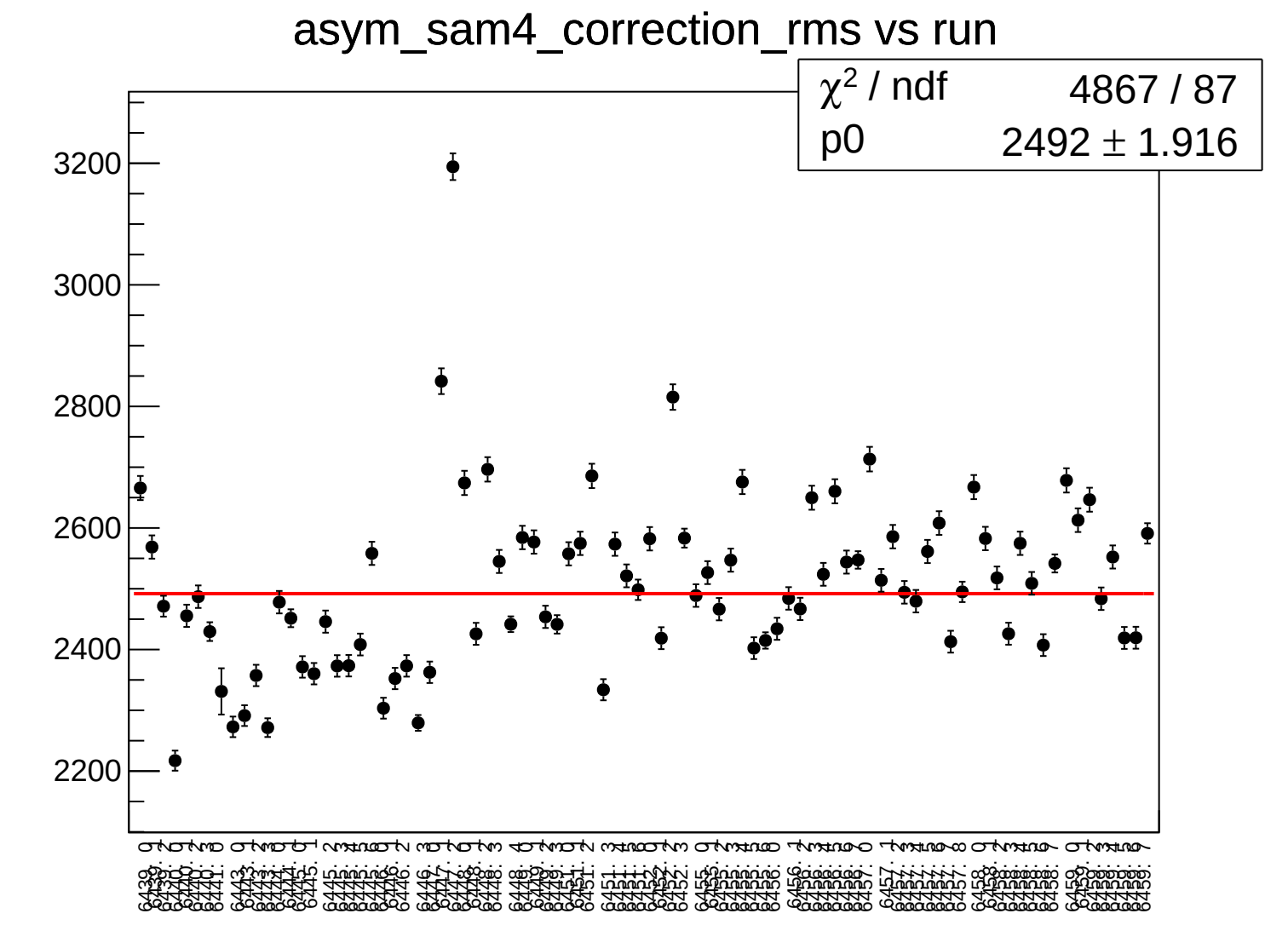

dit_asym_sam4_mean vs run
χ² / ndf 89.64 / 87
p0 286.1 ± 271.2
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 29.49
Std Dev 50.89
2
1
0
−1
−2
−3

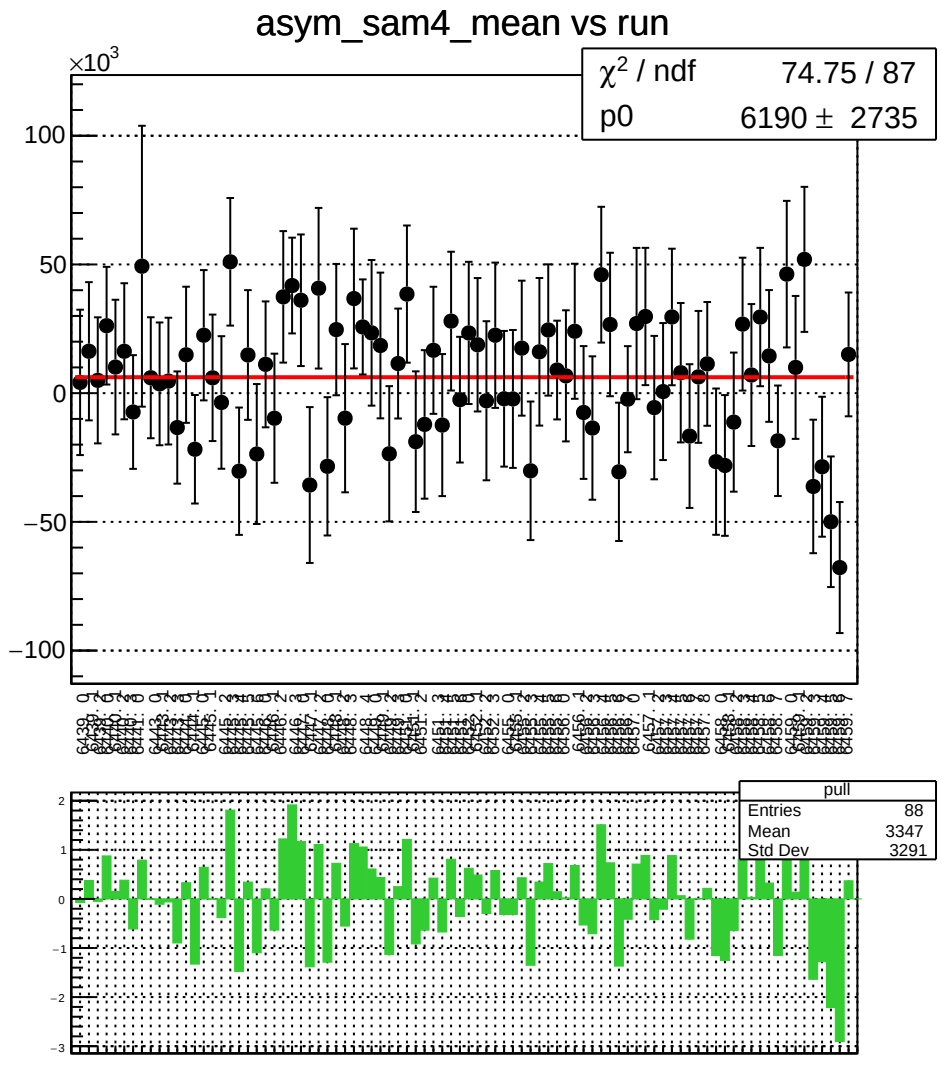

pull1D
Entries 88
Mean 0.01828
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

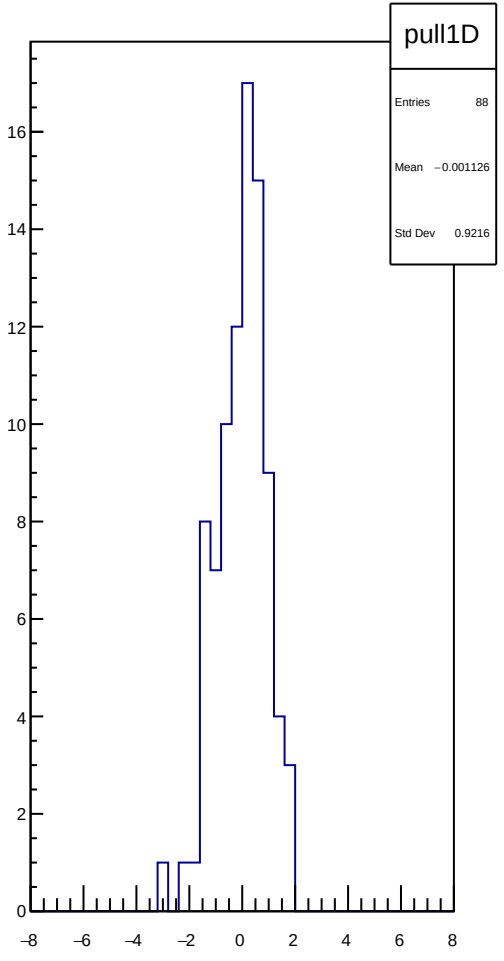

dit_asym_sam4_rms vs run
χ^2 / ndf 2.614e+04 / 87
p0 247.9 ± 0.1918
1000
800
600
400
200

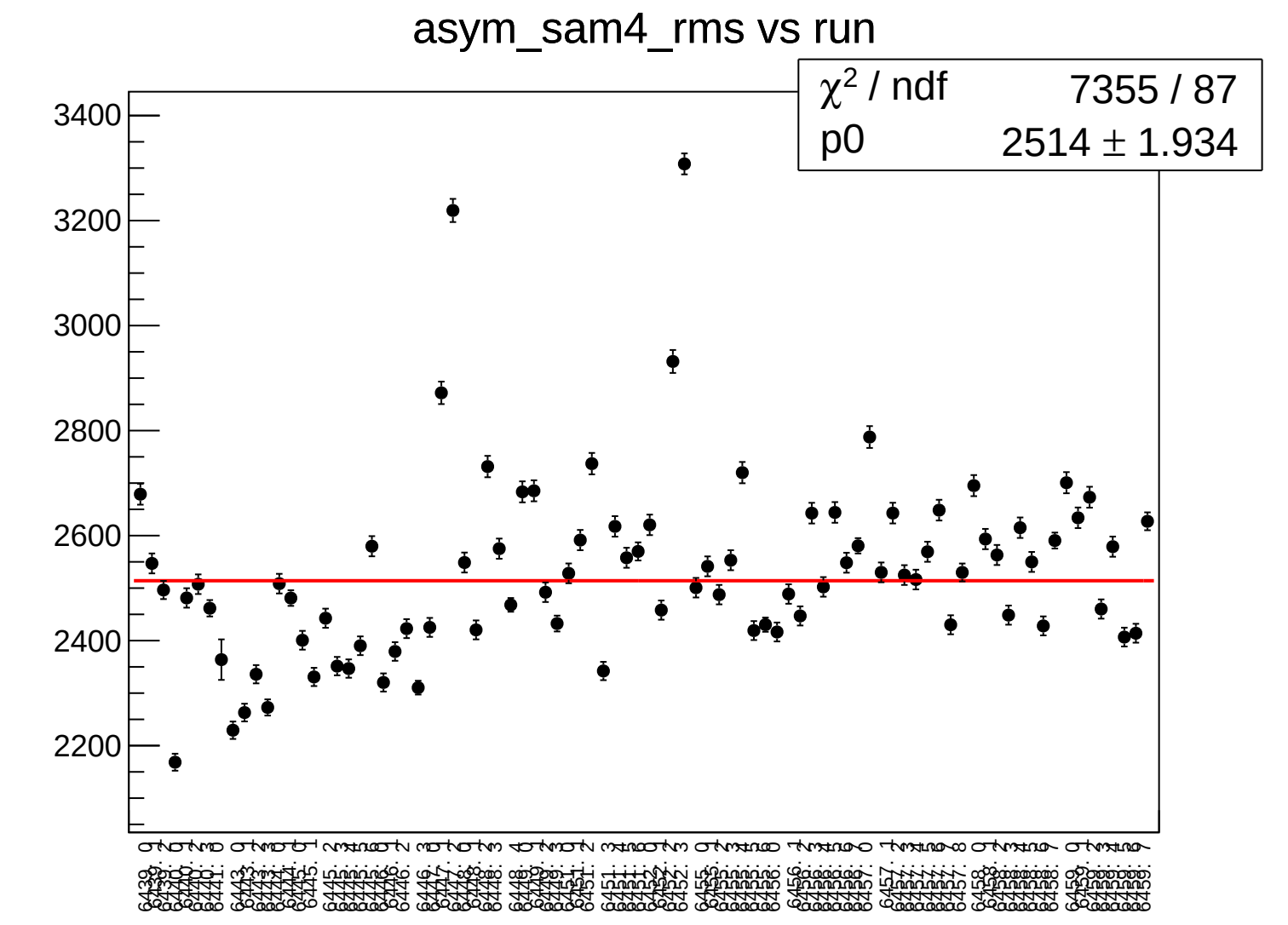

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 73.82 / 87
p0 −5912 ± 2709
100
50
0
−50
−100
pull
Entries 88
Mean 989.3
Std Dev 934.2
3
2
1
0
−1
−2

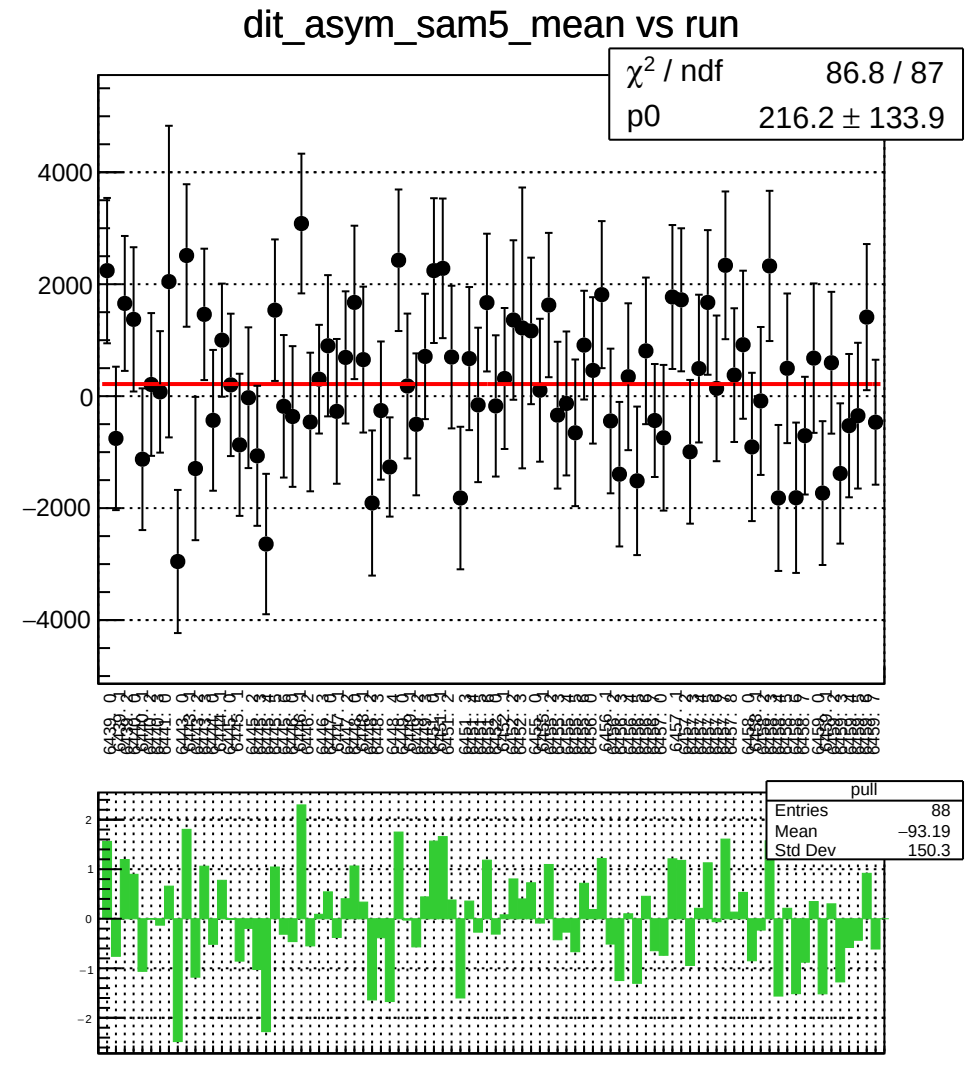

pull1D
Entries 88
Mean 0.003914
Std Dev 0.9159
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

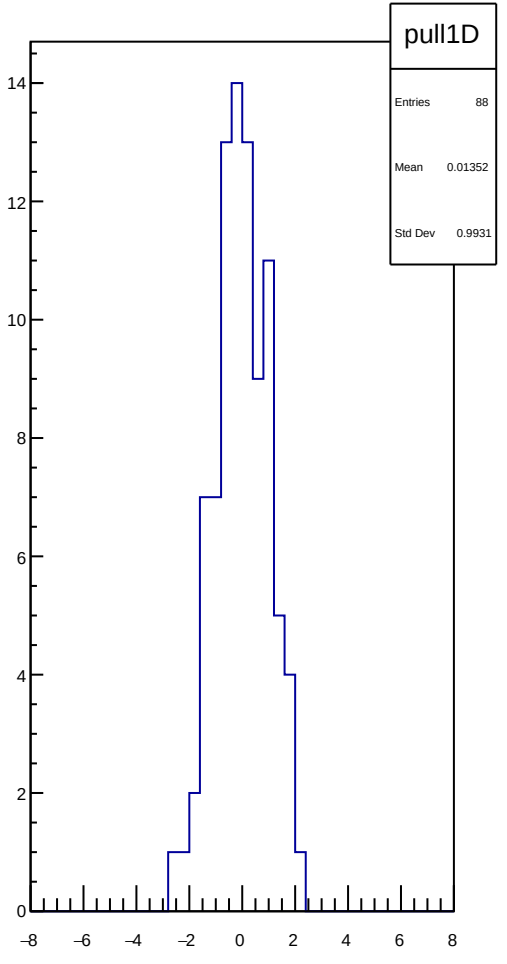

asym_sam4_correction_rms vs run
χ² / ndf 4867 / 87
p0 2492 ± 1.916
3200
3000
2800
2600
2400
2200

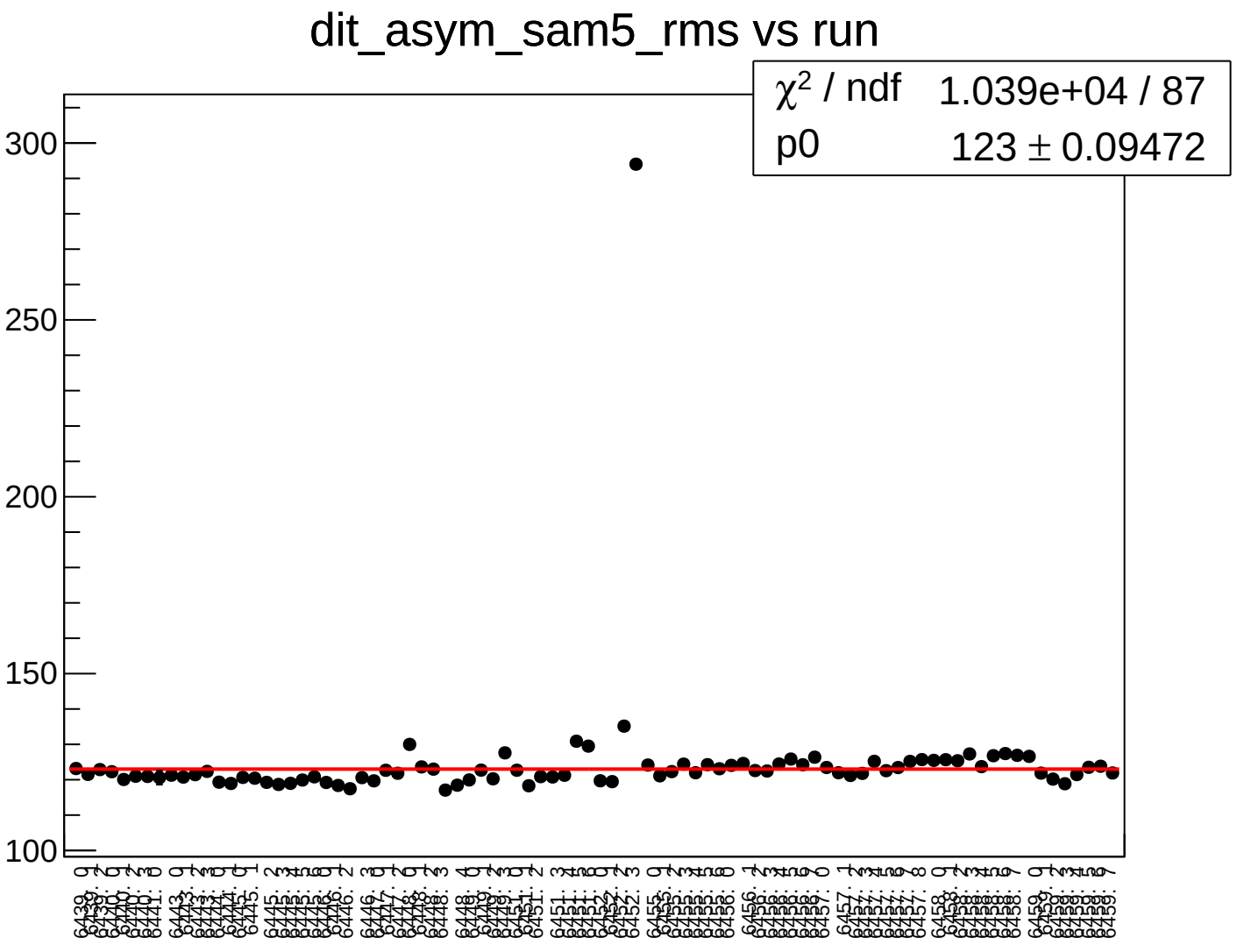

asym_sam4_mean vs run
×10^3
χ^2 / ndf 74.75 / 87
p0 6190 ± 2735
100
50
0
−50
−100
pull
Entries 88
Mean 3347
Std Dev 3291
2
1
0
−1
−2
−3

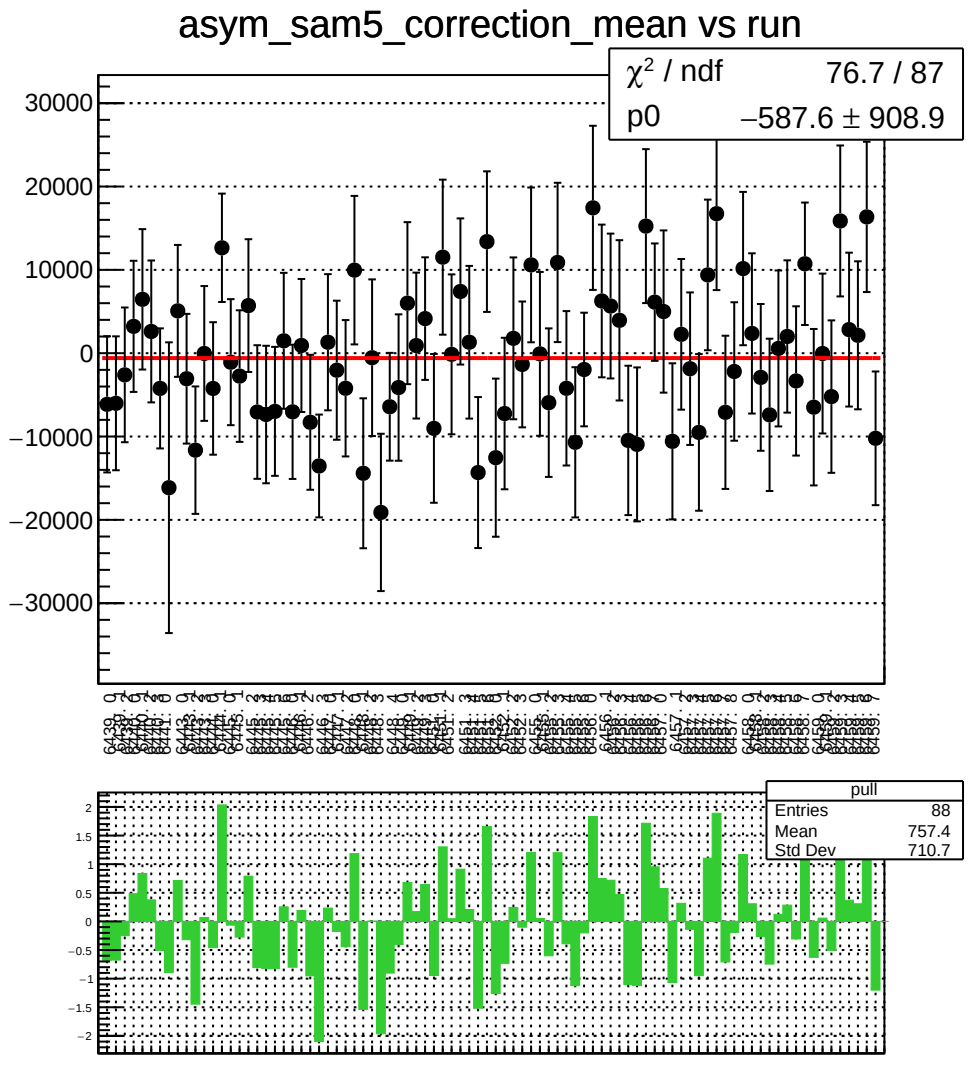

pull1D
Entries 88
Mean −0.001126
Std Dev 0.9216
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

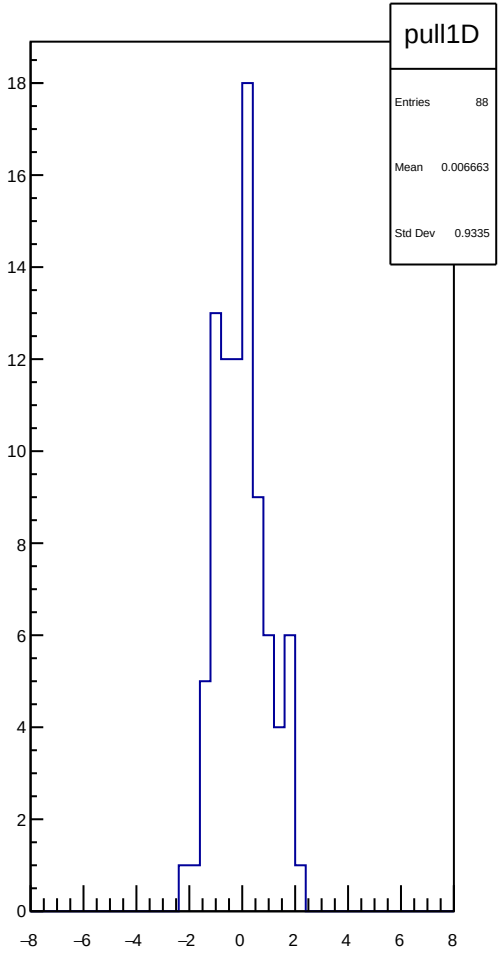

asym_sam4_rms vs run
χ^2 / ndf 7355 / 87
p0 2514 ± 1.934
3400
3200
3000
2800
2600
2400
2200

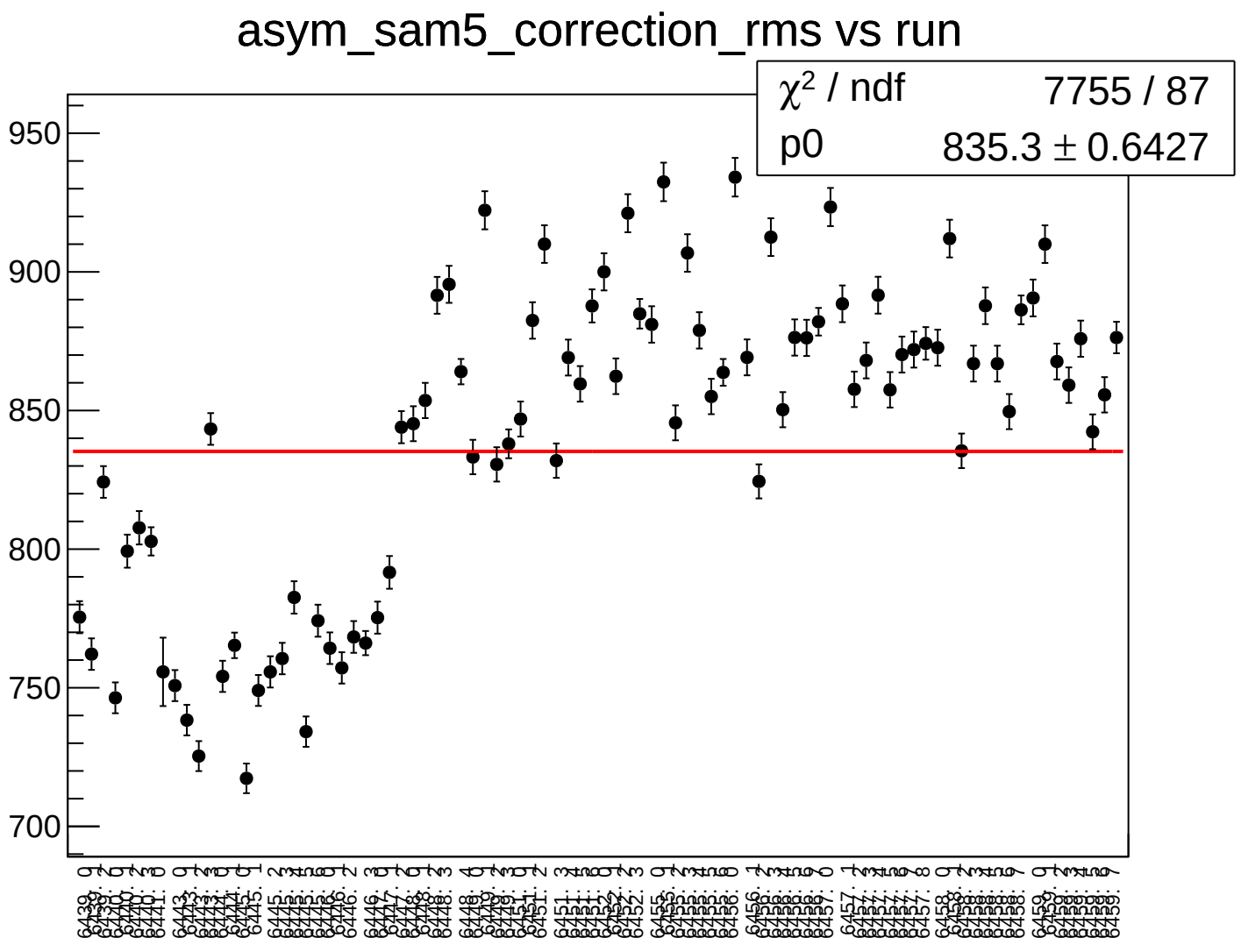

dit_asym_sam5_mean vs run
χ^2 / ndf 86.8 / 87
p0 216.2 ± 133.9
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −93.19
Std Dev 150.3
2
1
0
−1
−2

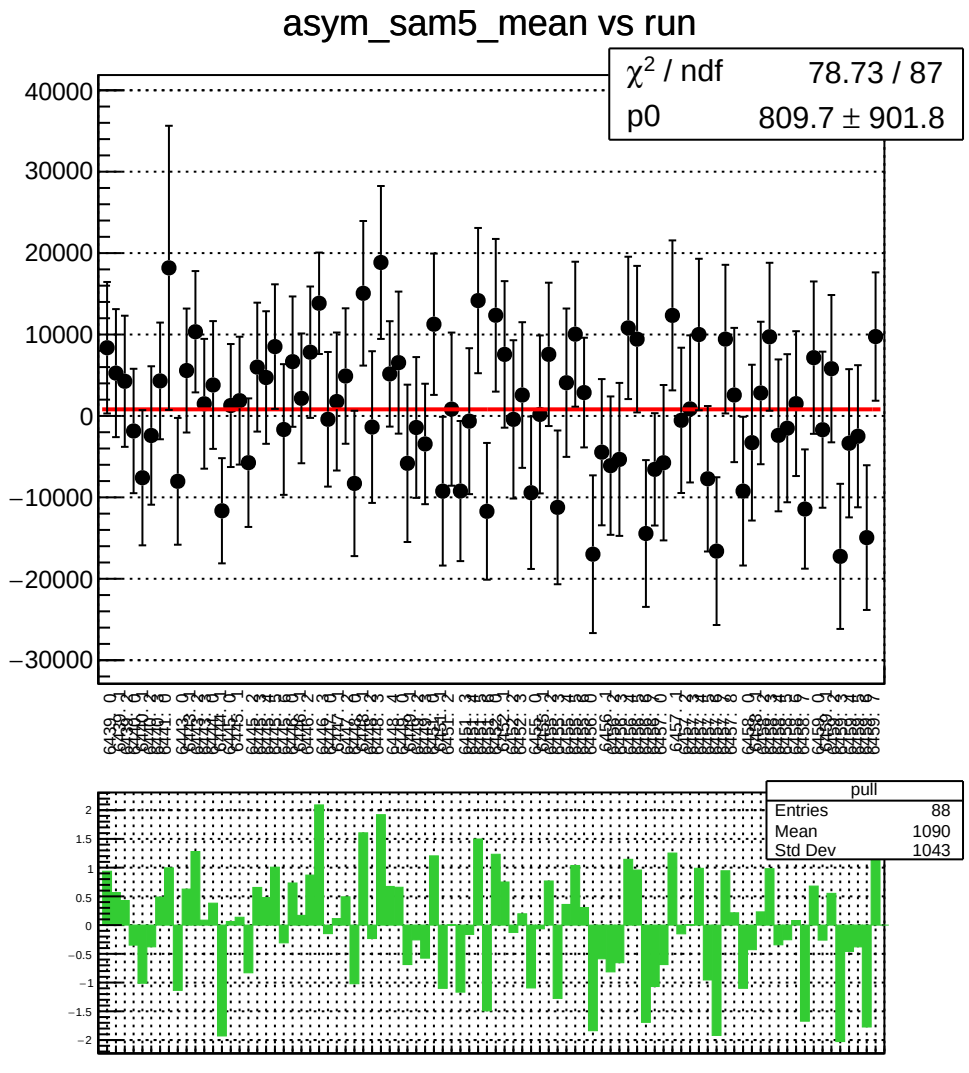

pull1D
Entries 88
Mean 0.01352
Std Dev 0.9931
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

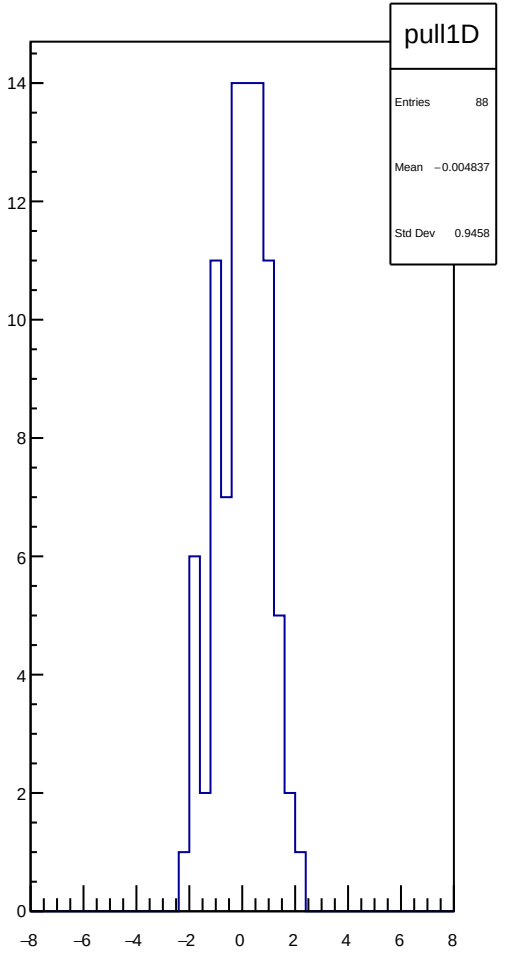

dit_asym_sam5_rms vs run
χ² / ndf 1.039e+04 / 87
p0 123 ± 0.09472
300
250
200
150
100

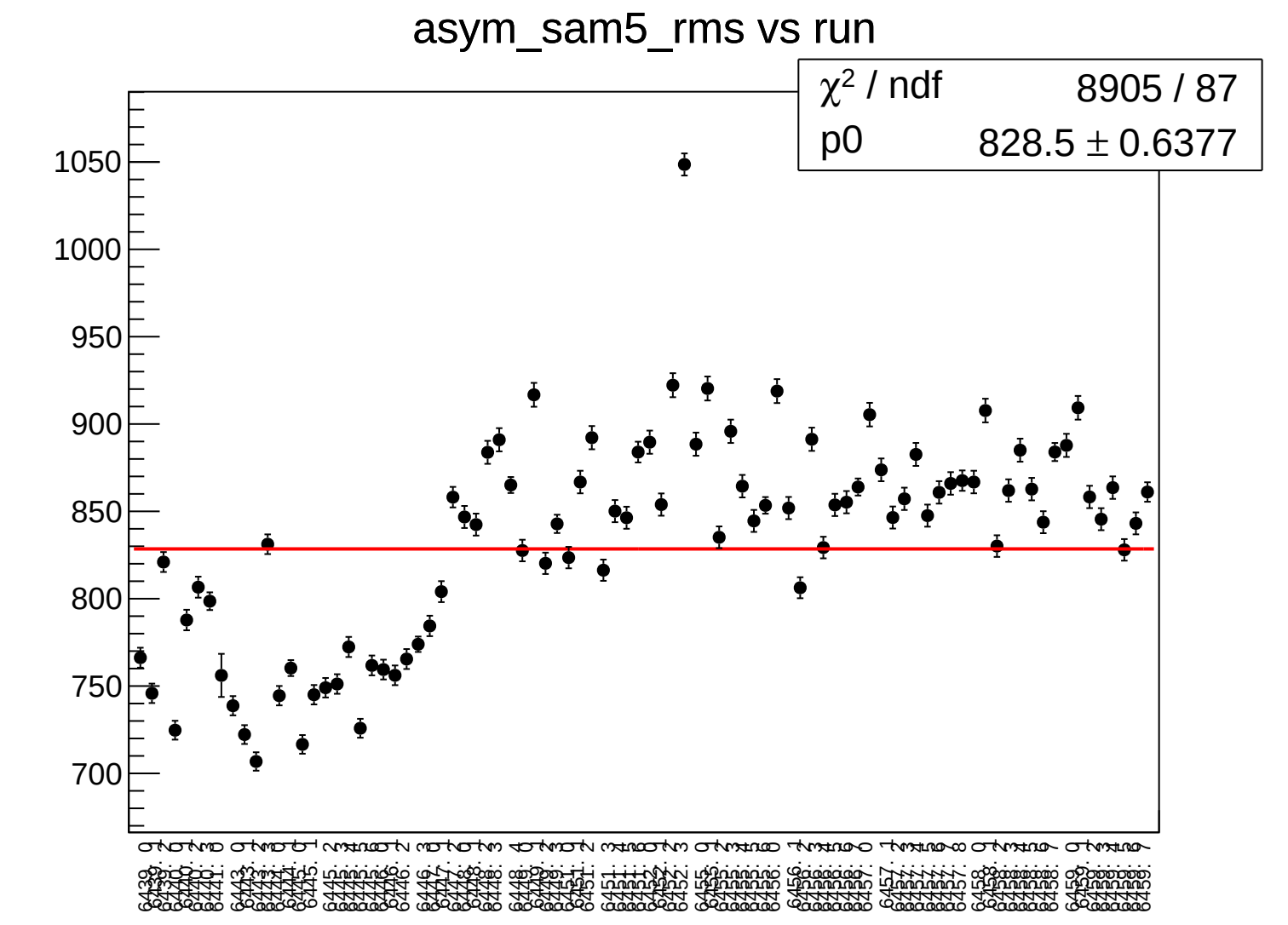

asym_sam5_correction_mean vs run
χ² / ndf 76.7 / 87
p0 −587.6 ± 908.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 757.4
Std Dev 710.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

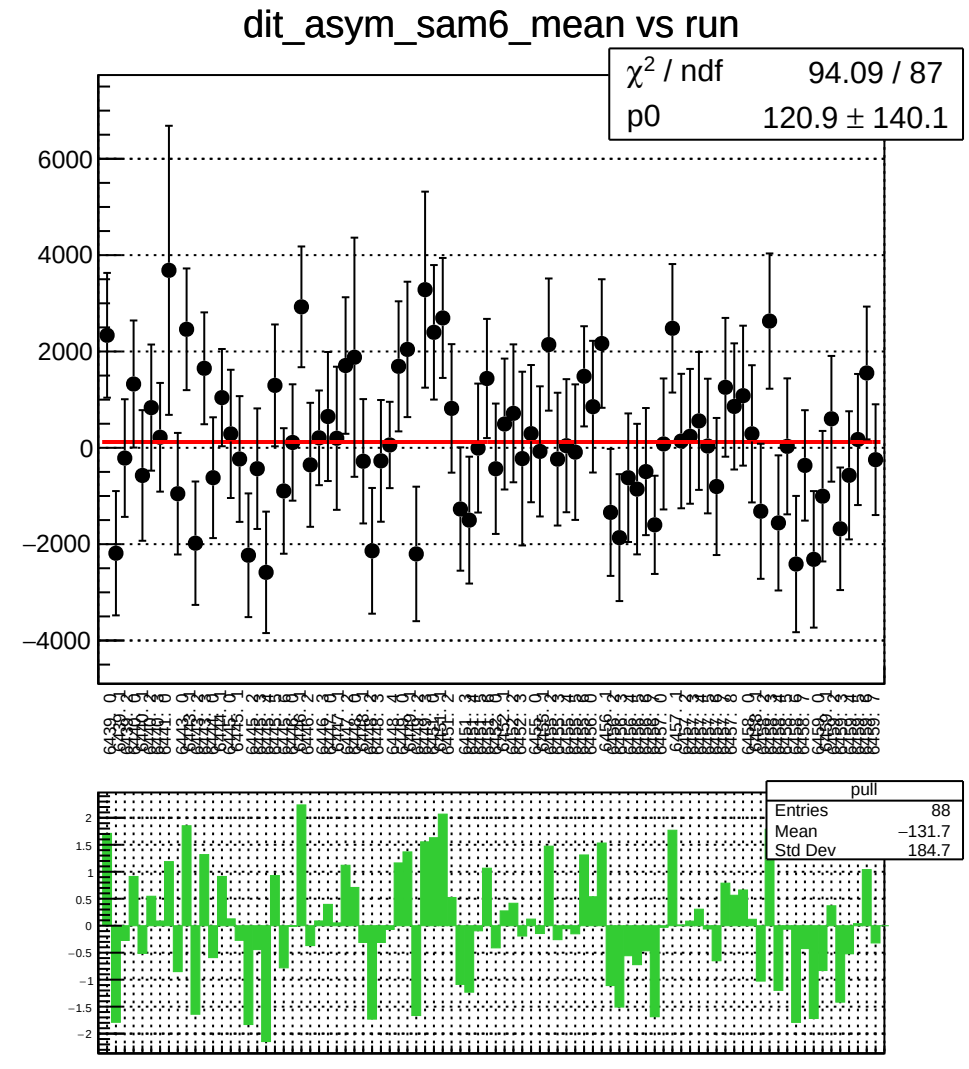

pull1D
Entries 88
Mean 0.006663
Std Dev 0.9335
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

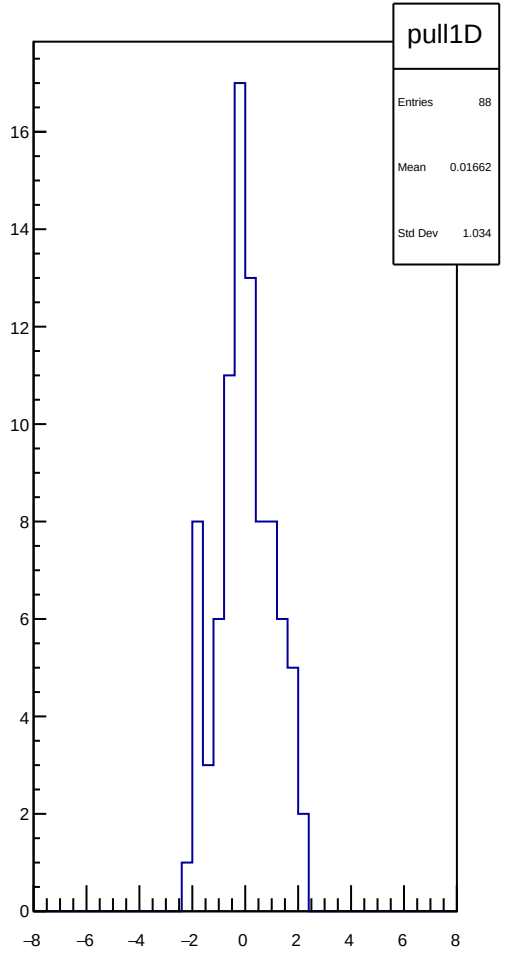

asym_sam5_correction_rms vs run
χ² / ndf 7755 / 87
p0 835.3 ± 0.6427
950
900
850
800
750
700

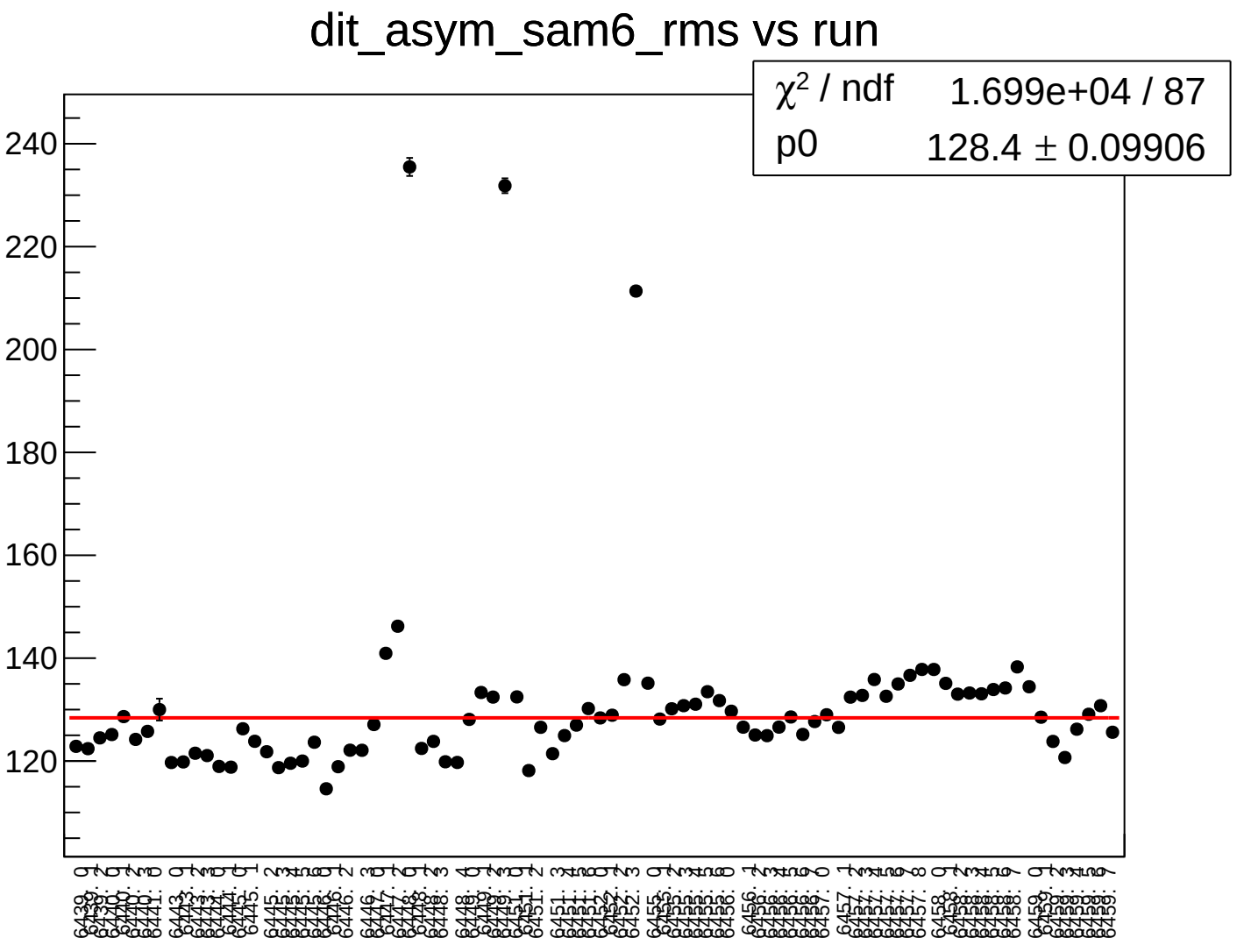

asym_sam5_mean vs run
χ² / ndf 78.73 / 87
p0 809.7 ± 901.8
pull
Entries 88
Mean 1090
Std Dev 1043

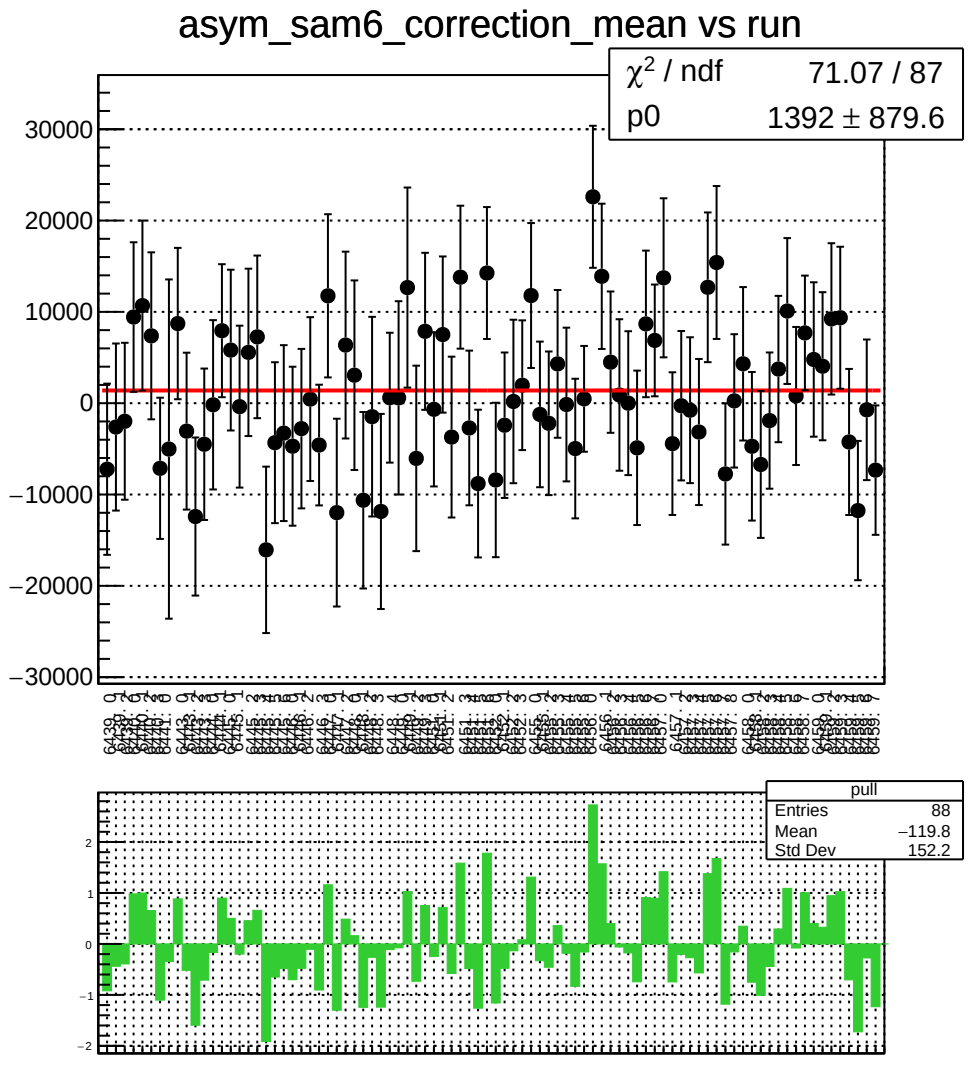

pull1D
Entries 88
Mean −0.004837
Std Dev 0.9458

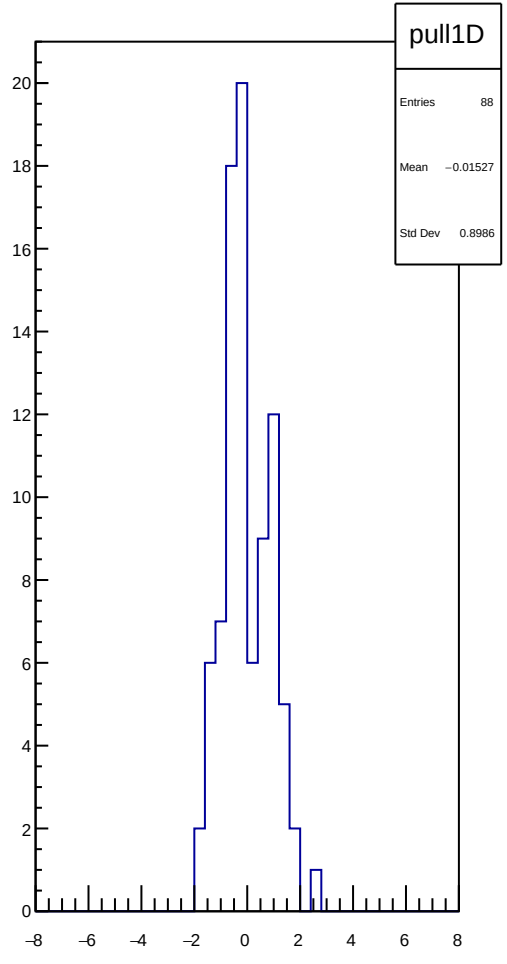

asym_sam5_rms vs run
χ² / ndf 8905 / 87
p0 828.5 ± 0.6377
1050
1000
950
900
850
800
750
700

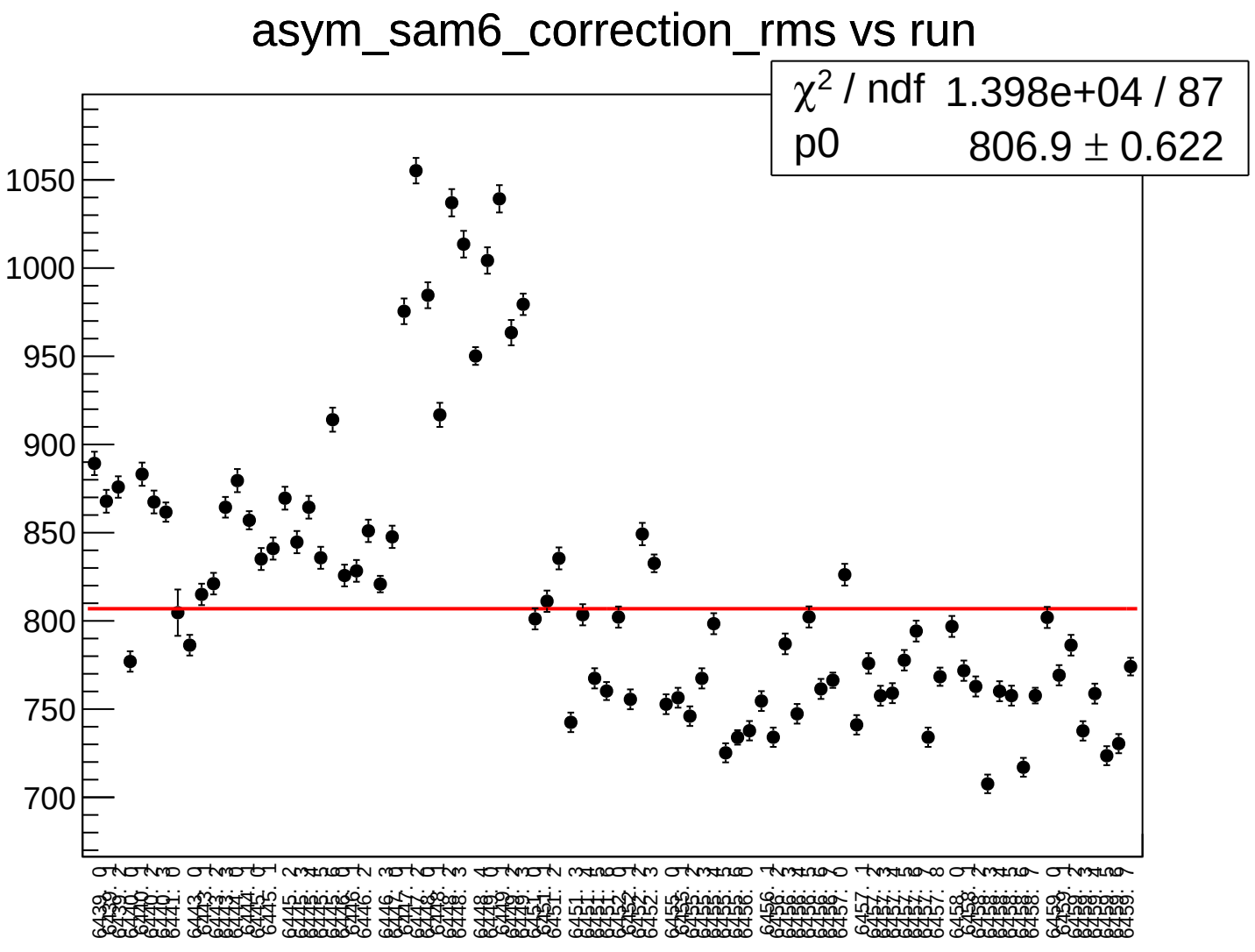

dit_asym_sam6_mean vs run
χ² / ndf 94.09 / 87
p0 120.9 ± 140.1
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −131.7
Std Dev 184.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

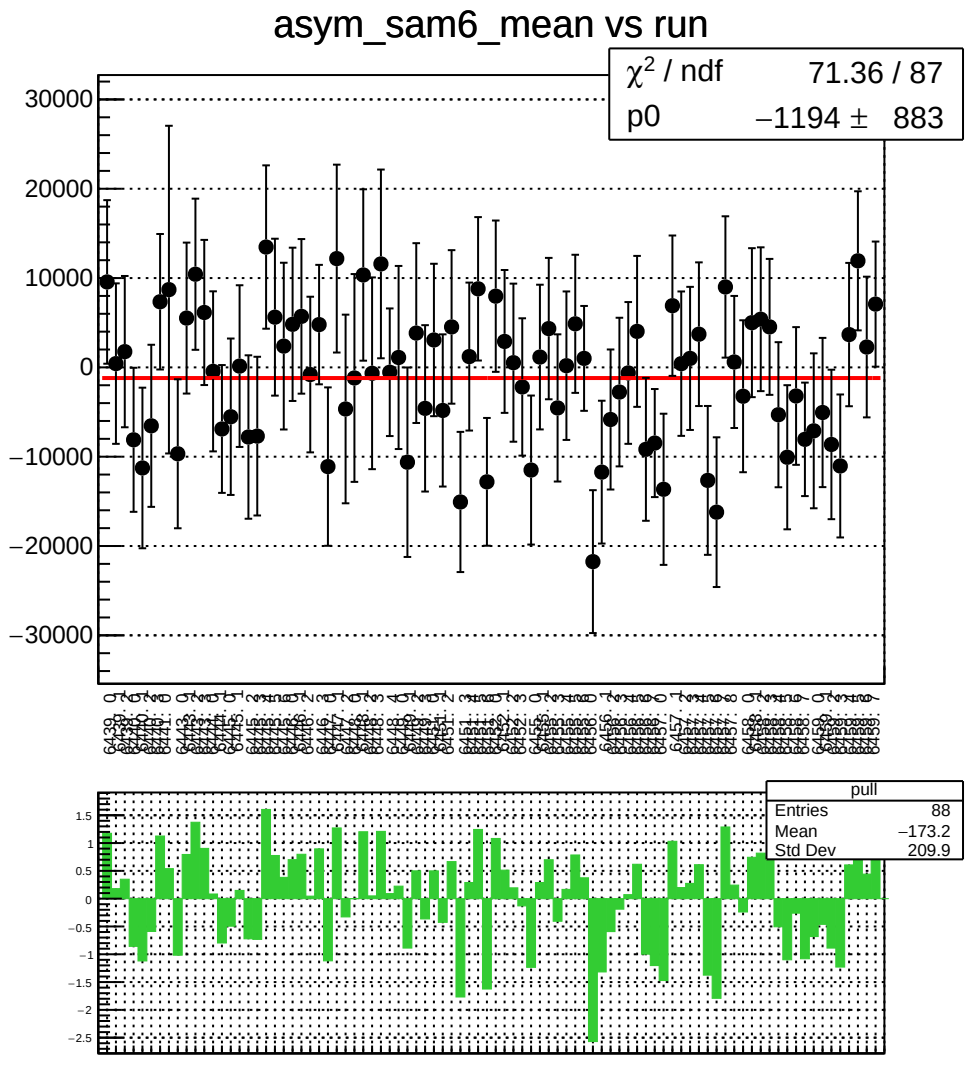

pull1D
Entries 88
Mean 0.01662
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

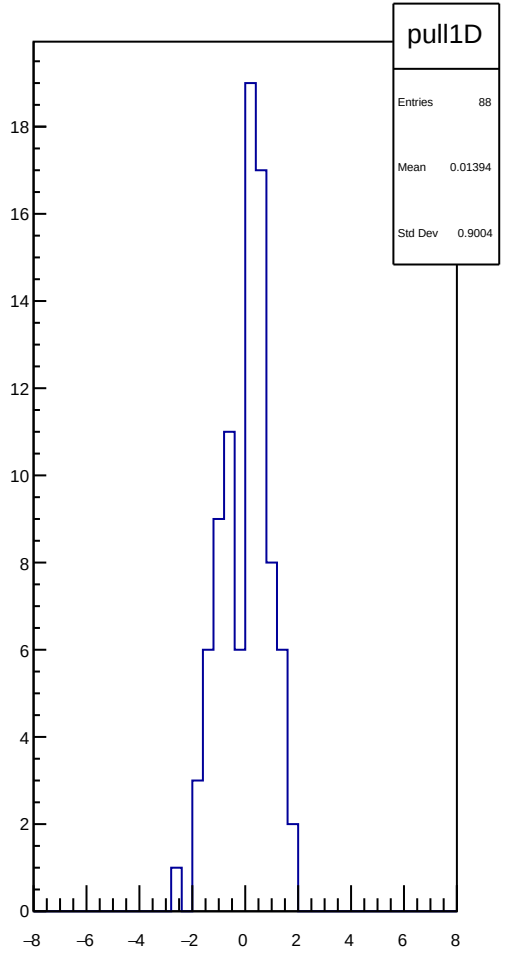

dit_asym_sam6_rms vs run
χ² / ndf 1.699e+04 / 87
p0 128.4 ± 0.09906
240
220
200
180
160
140
120

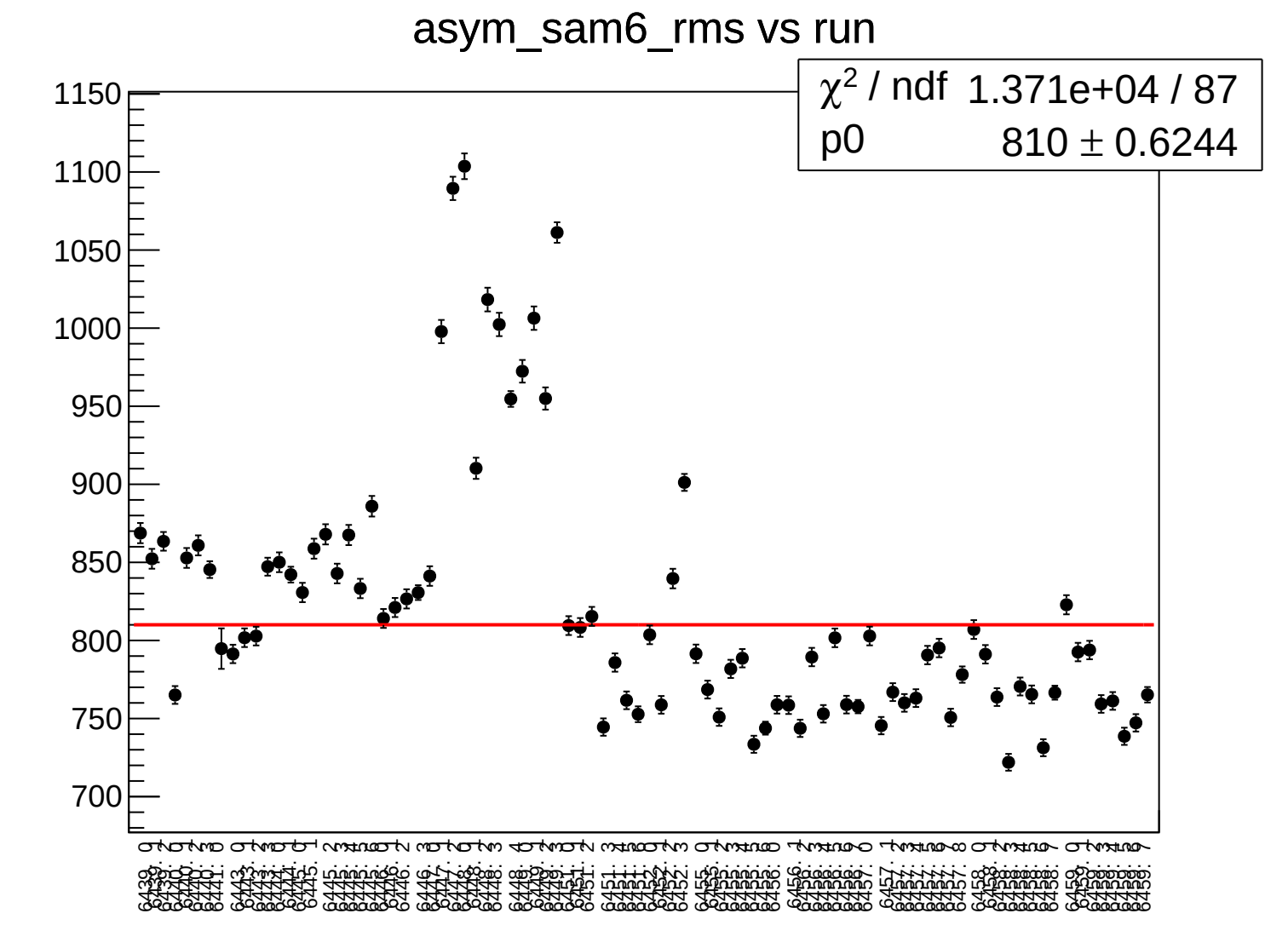

asym_sam6_correction_mean vs run
χ² / ndf 71.07 / 87
p0 1392 ± 879.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −119.8
Std Dev 152.2
2
1
0
−1
−2

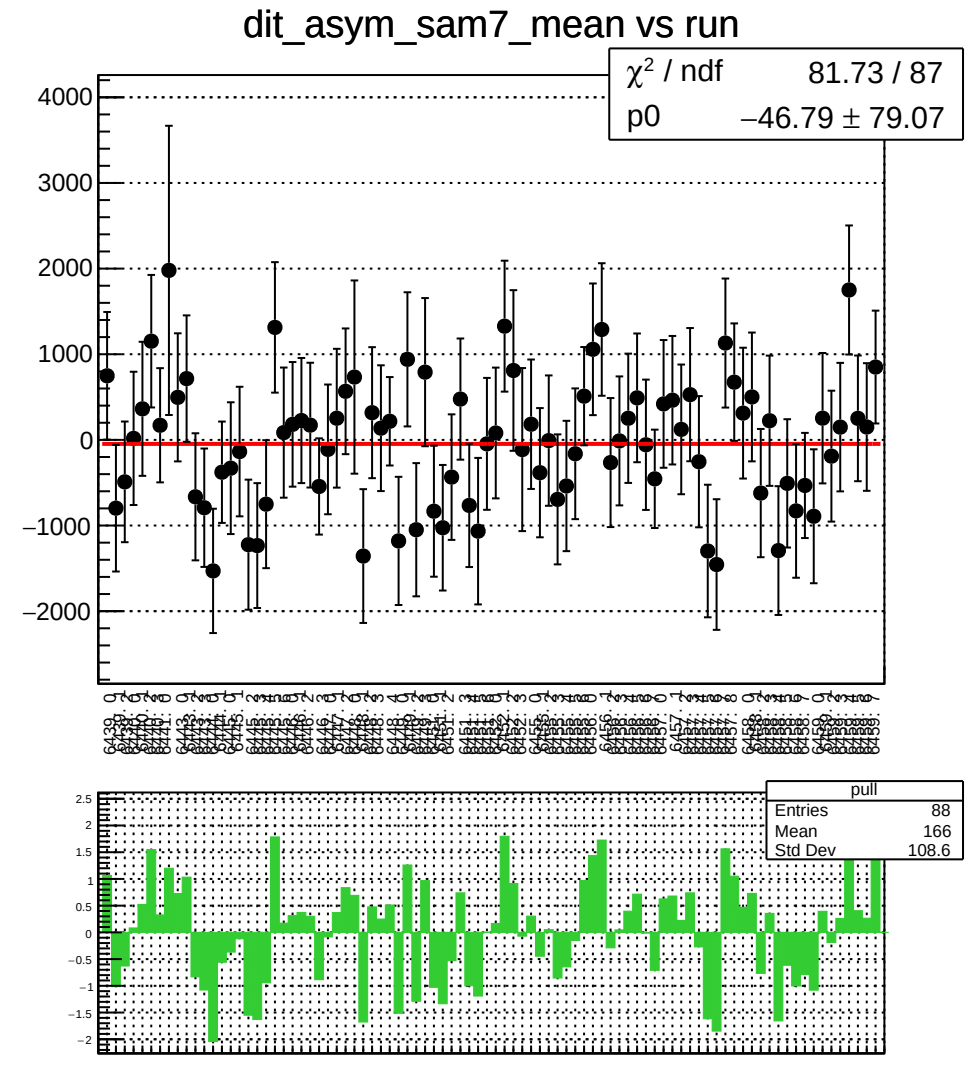

pull1D
Entries 88
Mean −0.01527
Std Dev 0.8986
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

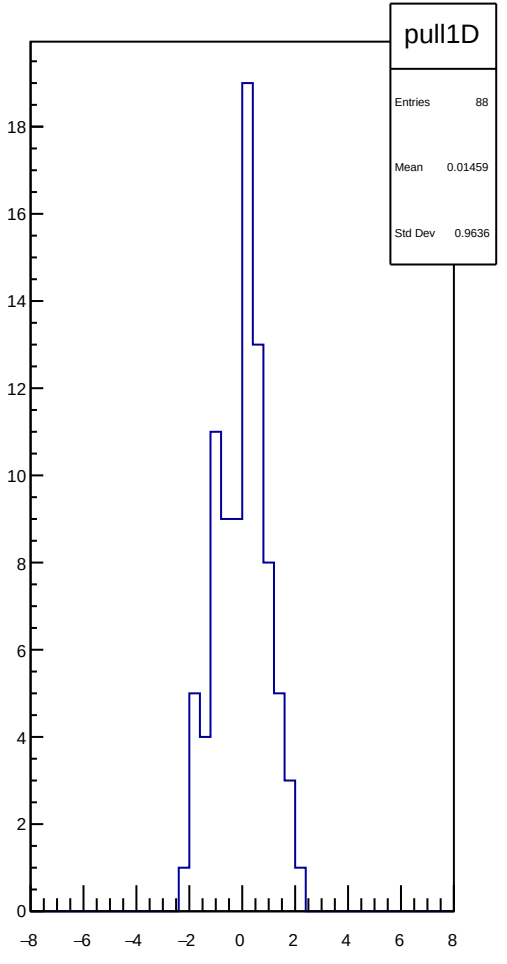

asym_sam6_correction_rms vs run
χ² / ndf 1.398e+04 / 87
p0 806.9 ± 0.622
1050
1000
950
900
850
800
750
700

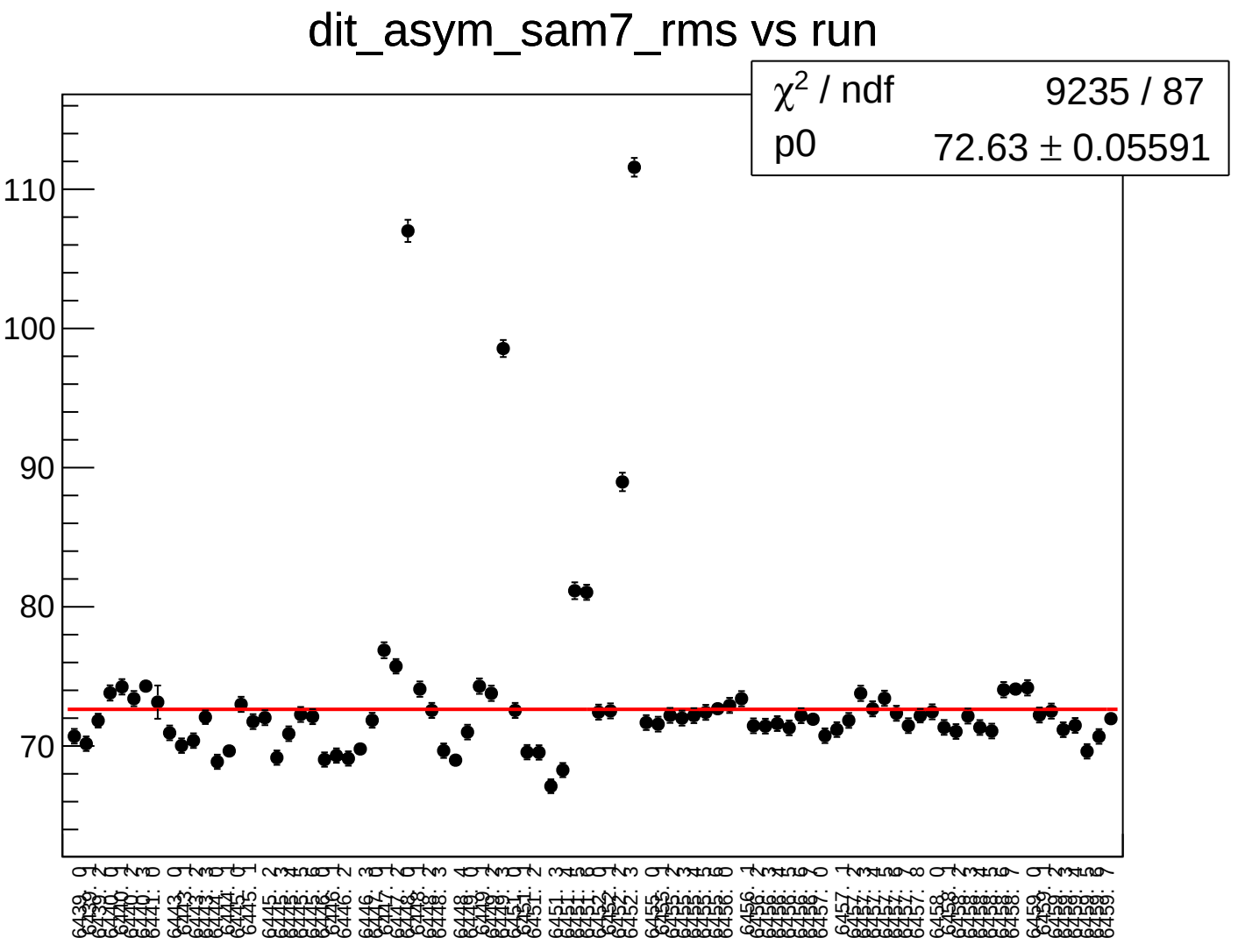

asym_sam6_mean vs run
χ² / ndf 71.36 / 87
p0 −1194 ± 883
pull
Entries 88
Mean −173.2
Std Dev 209.9

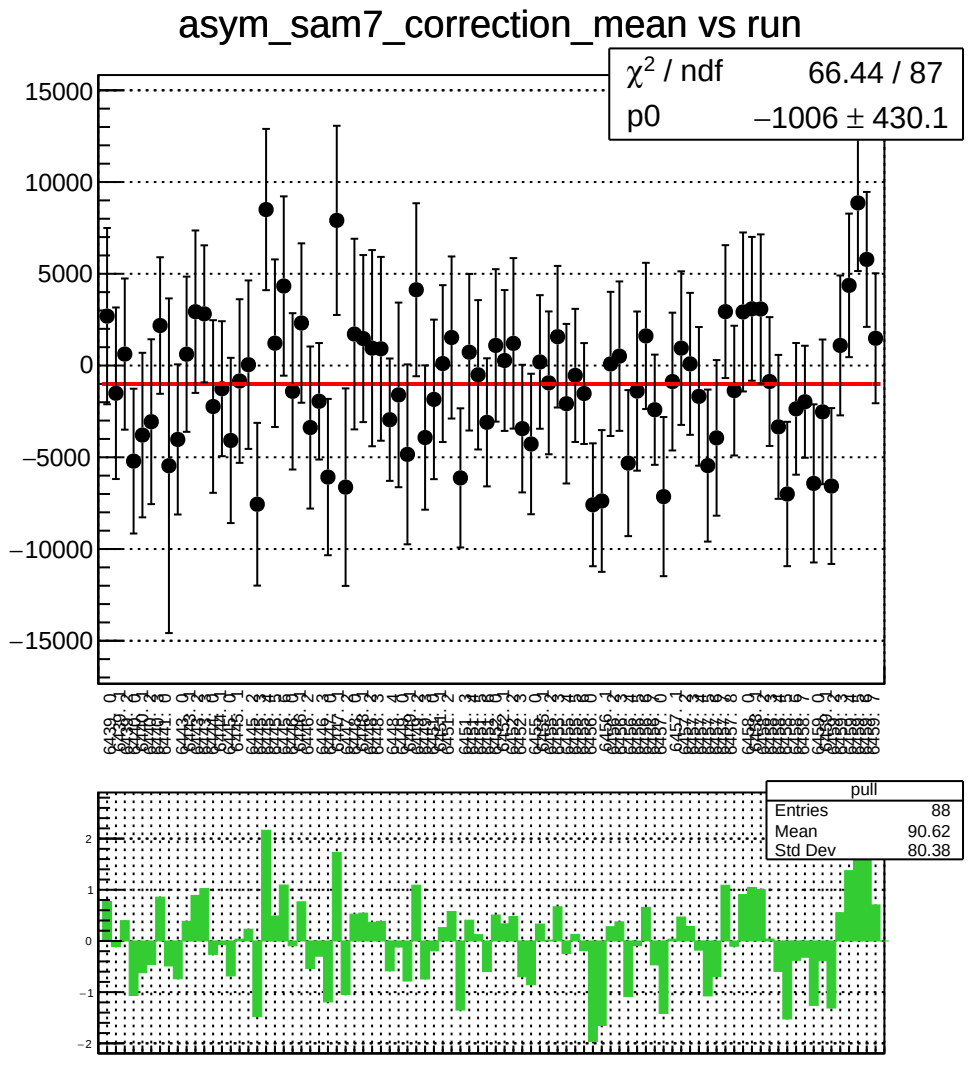

pull1D
Entries 88
Mean 0.01394
Std Dev 0.9004

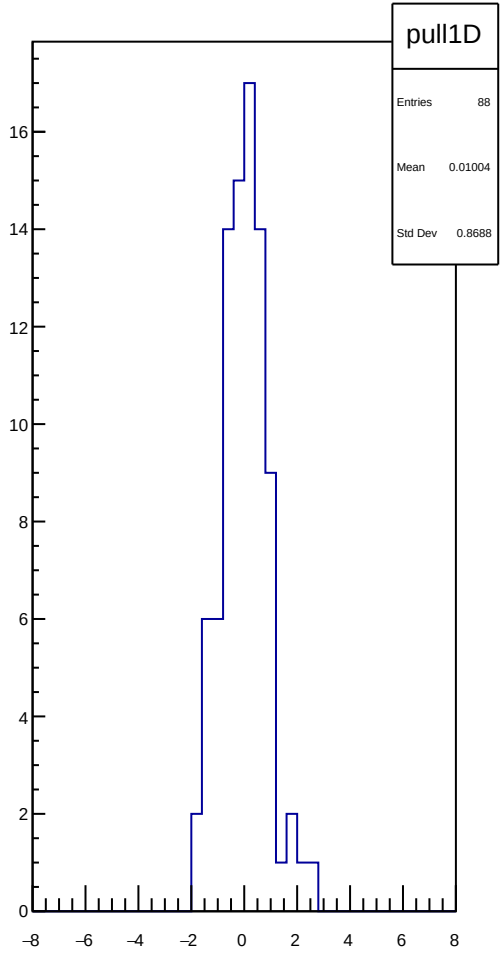

asym_sam6_rms vs run
χ² / ndf 1.371e+04 / 87
p0 810 ± 0.6244
1150
1100
1050
1000
950
900
850
800
750
700

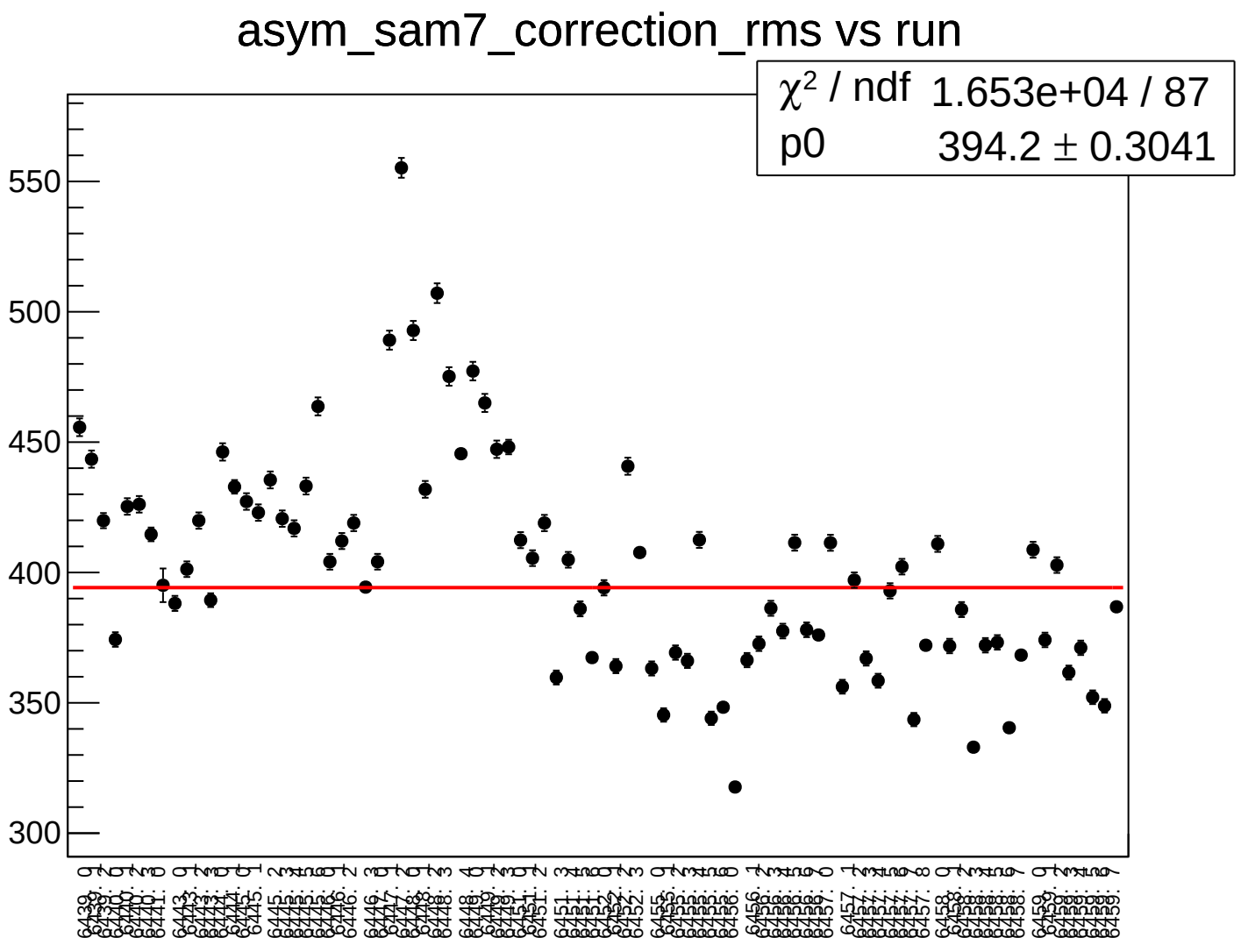

dit_asym_sam7_mean vs run
χ² / ndf 81.73 / 87
p0 −46.79 ± 79.07
pull
Entries 88
Mean 166
Std Dev 108.6

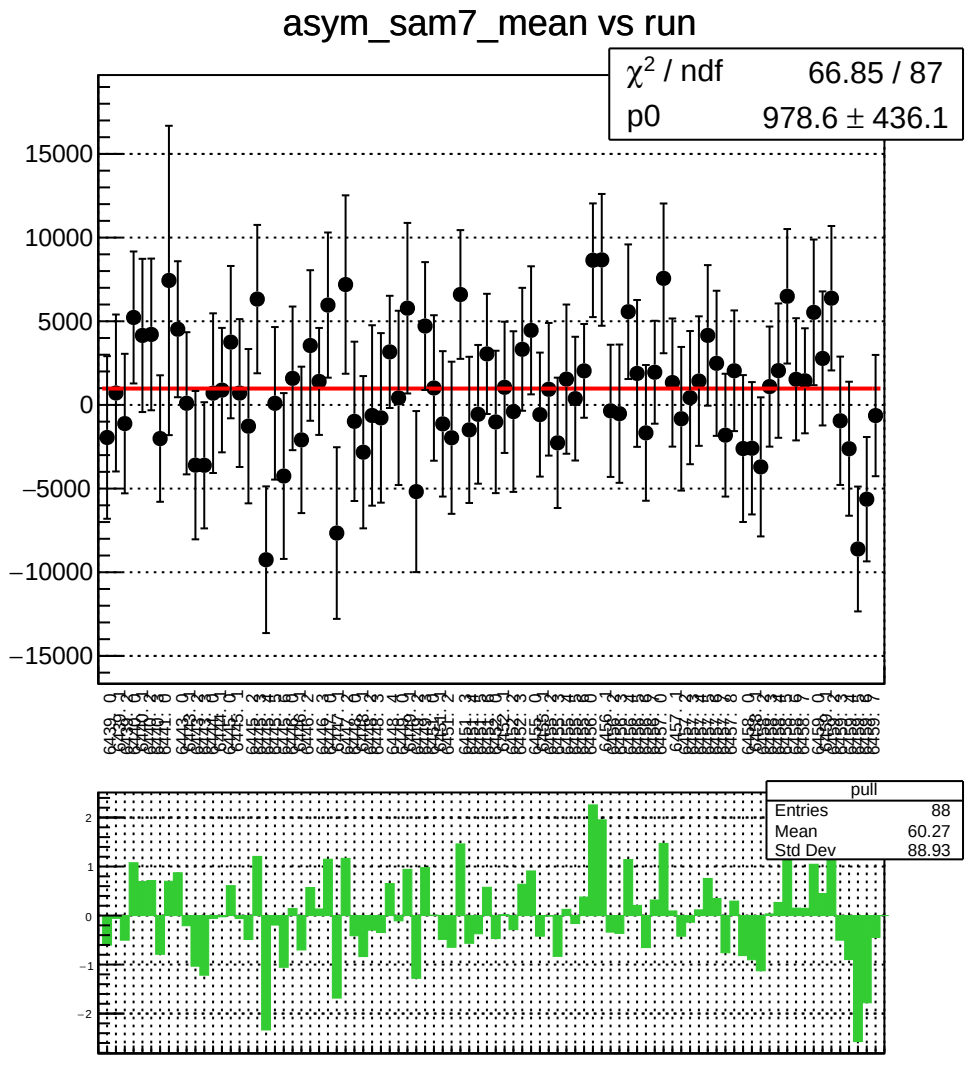

pull1D
Entries 88
Mean 0.01459
Std Dev 0.9636

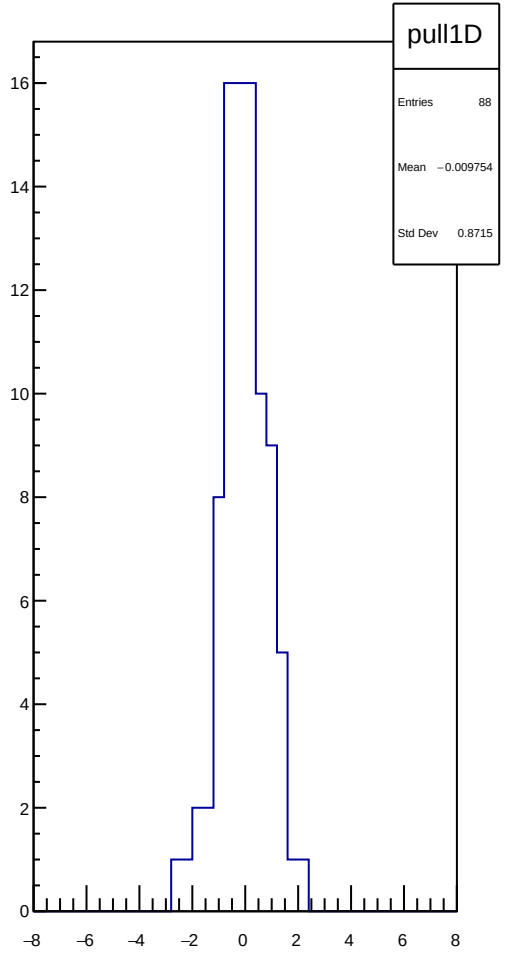

dit_asym_sam7_rms vs run
χ^2 / ndf 9235 / 87
p0 72.63 ± 0.05591
110
100
90
80
70

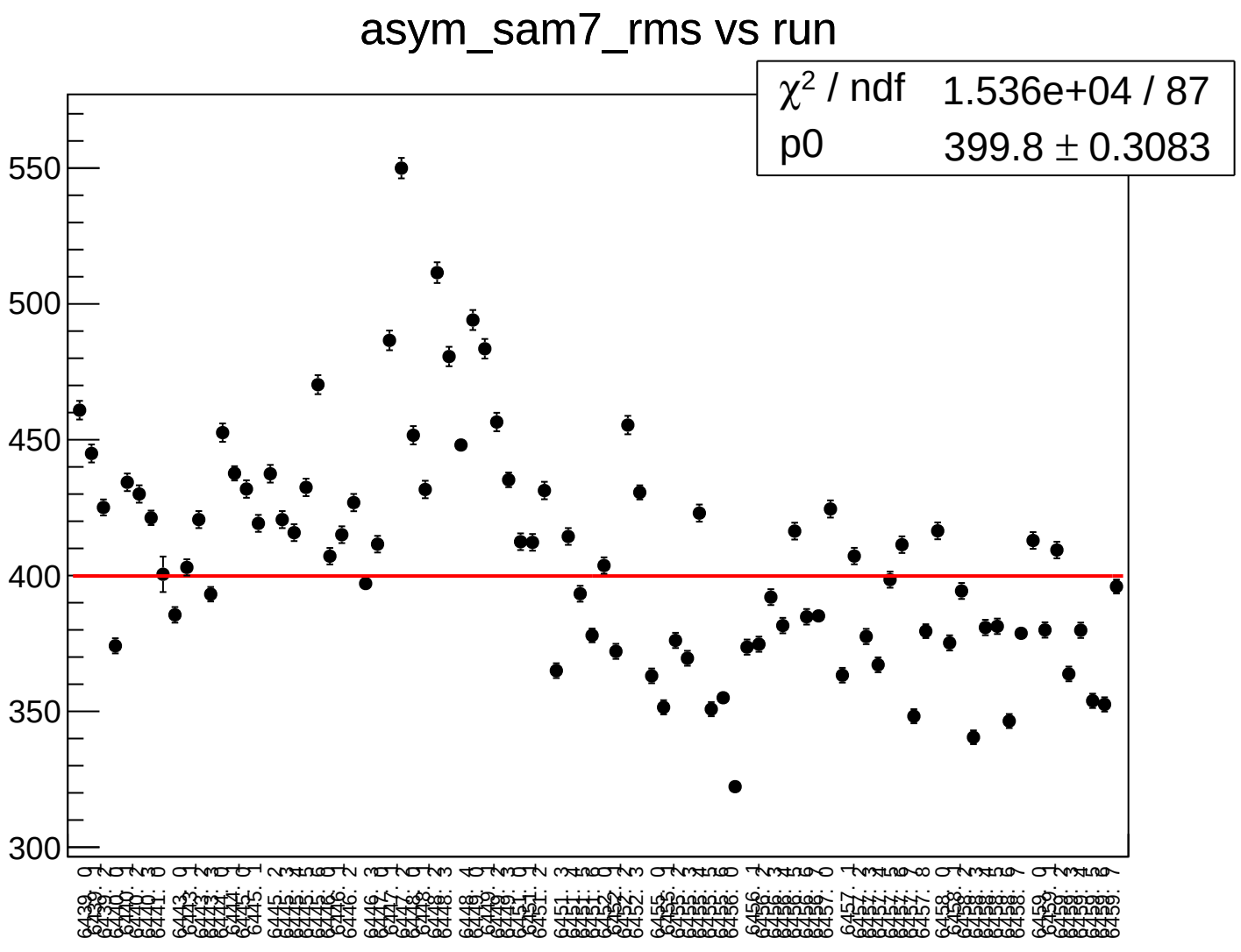

asym_sam7_correction_mean vs run
χ² / ndf 66.44 / 87
p0 −1006 ± 430.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 90.62
Std Dev 80.38
2
1
0
−1
−2

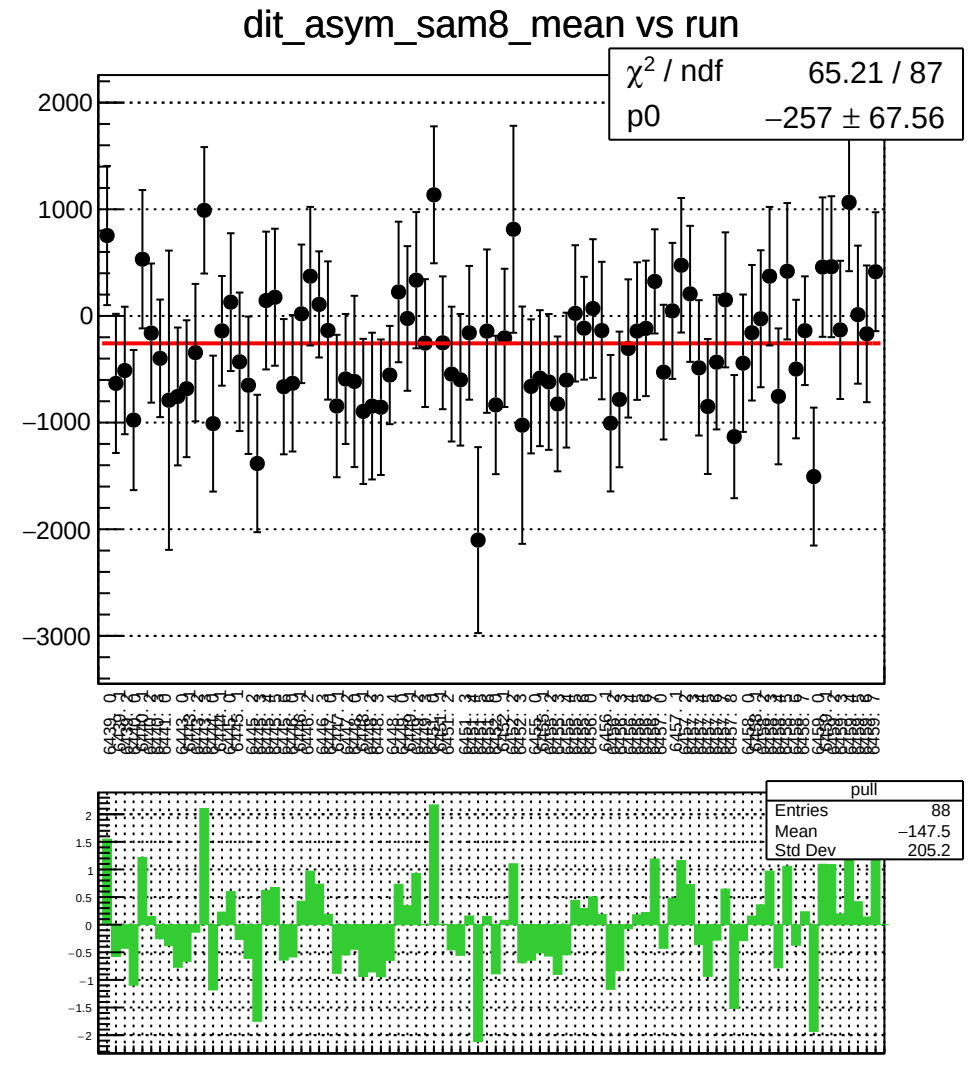

pull1D
Entries 88
Mean 0.01004
Std Dev 0.8688
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

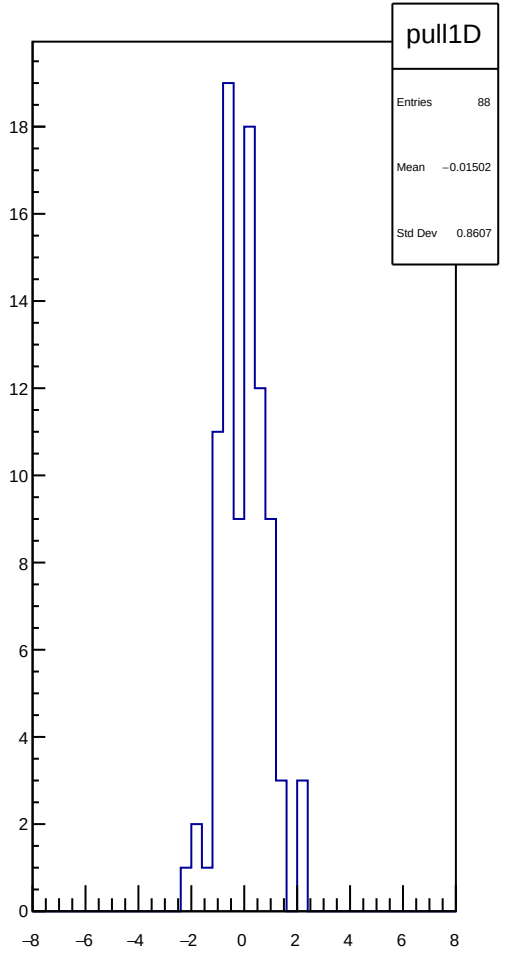

asym_sam7_correction_rms vs run
χ² / ndf 1.653e+04 / 87
p0 394.2 ± 0.3041
550
500
450
400
350
300

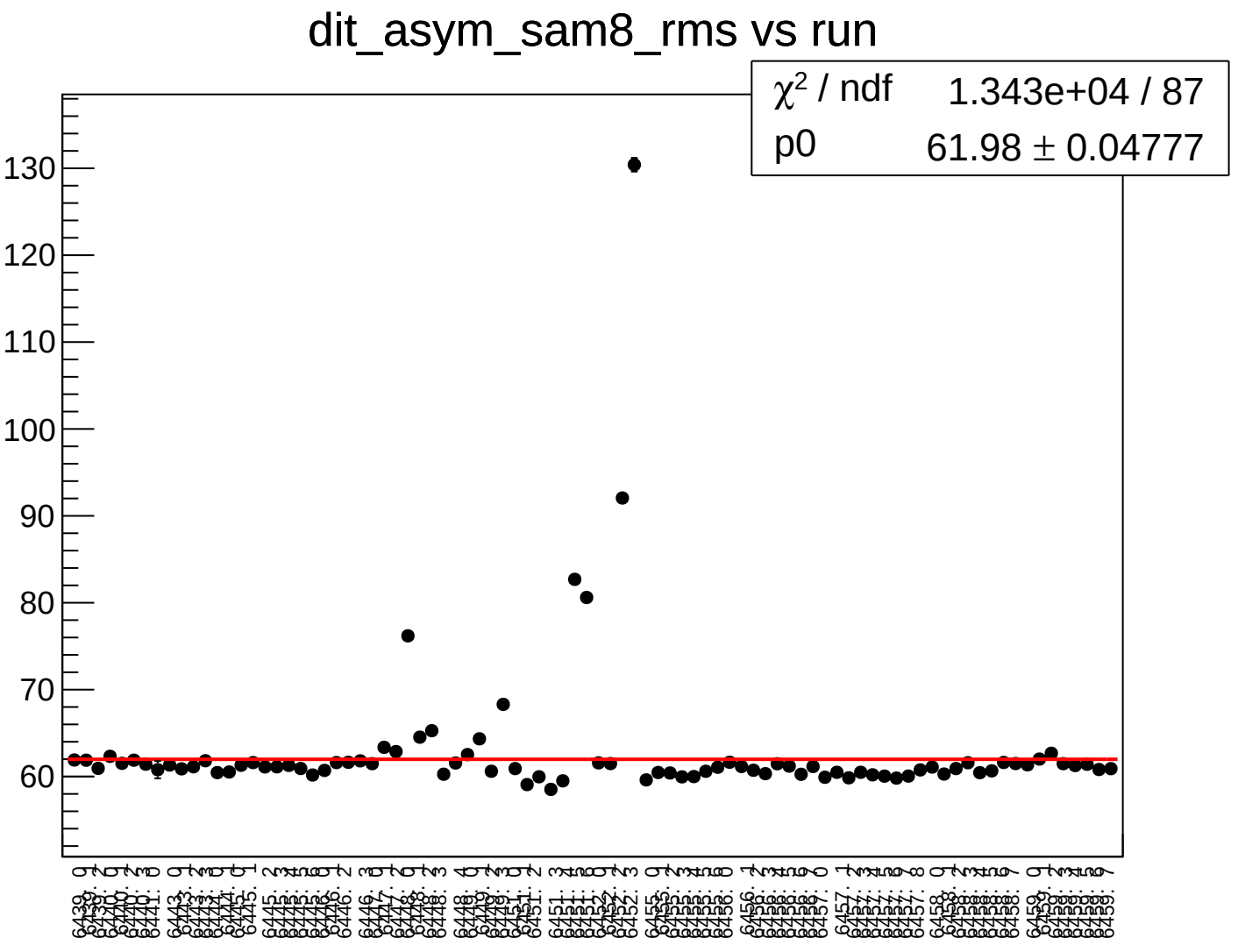

asym_sam7_mean vs run
χ² / ndf 66.85 / 87
p0 978.6 ± 436.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 60.27
Std Dev 88.93
2
1
0
−1
−2

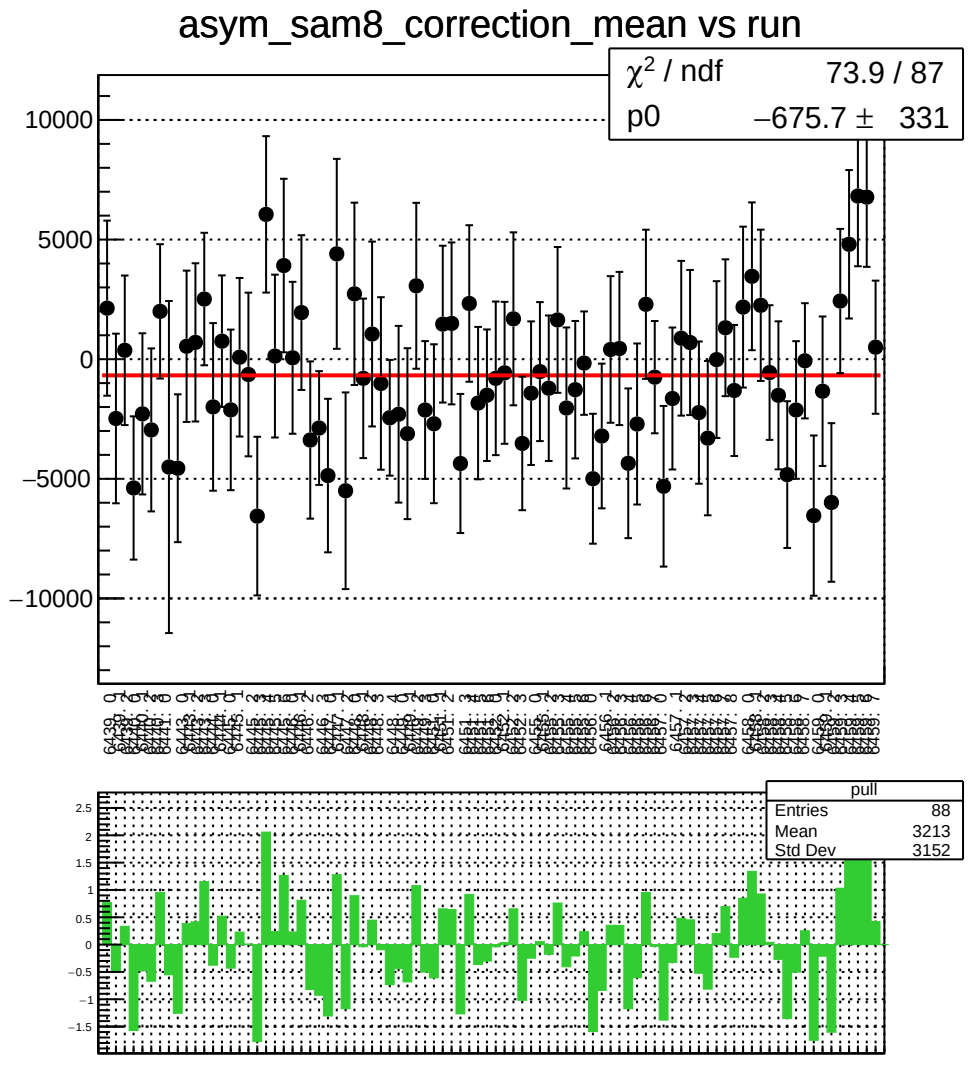

pull1D
Entries 88
Mean −0.009754
Std Dev 0.8715
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

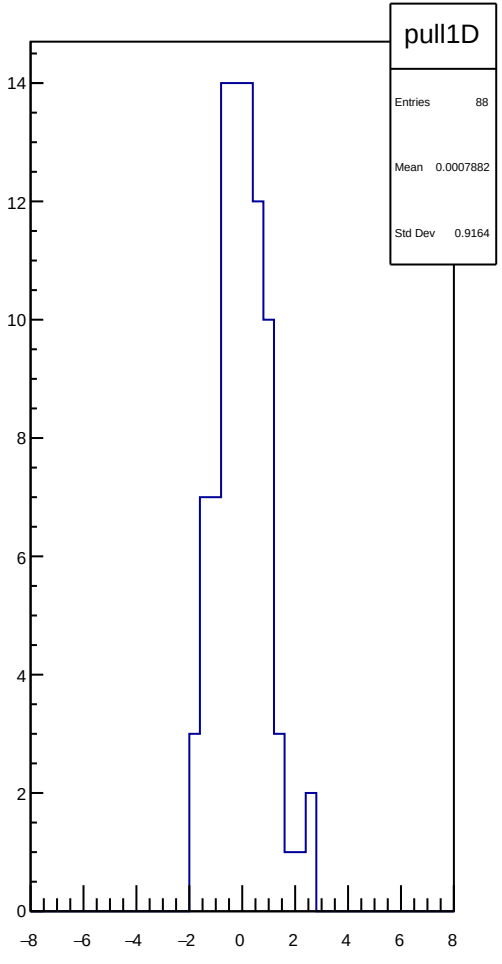

asym_sam7_rms vs run
χ² / ndf 1.536e+04 / 87
p0 399.8 ± 0.3083
550
500
450
400
350
300


dit_asym_sam8_mean vs run
χ² / ndf 65.21 / 87
p0 −257 ± 67.56
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −147.5
Std Dev 205.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

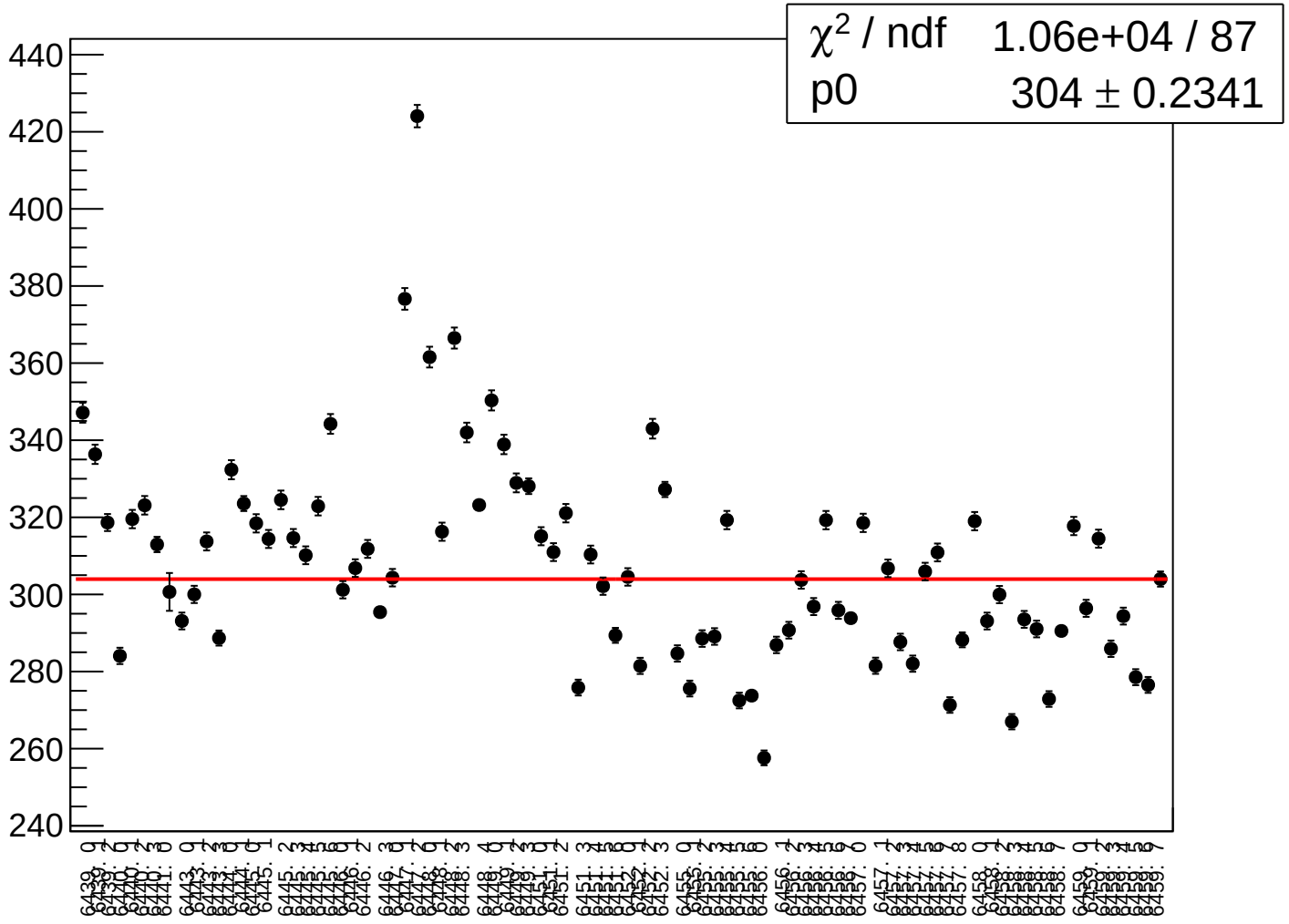

pull1D
Entries 88
Mean −0.01502
Std Dev 0.8607
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

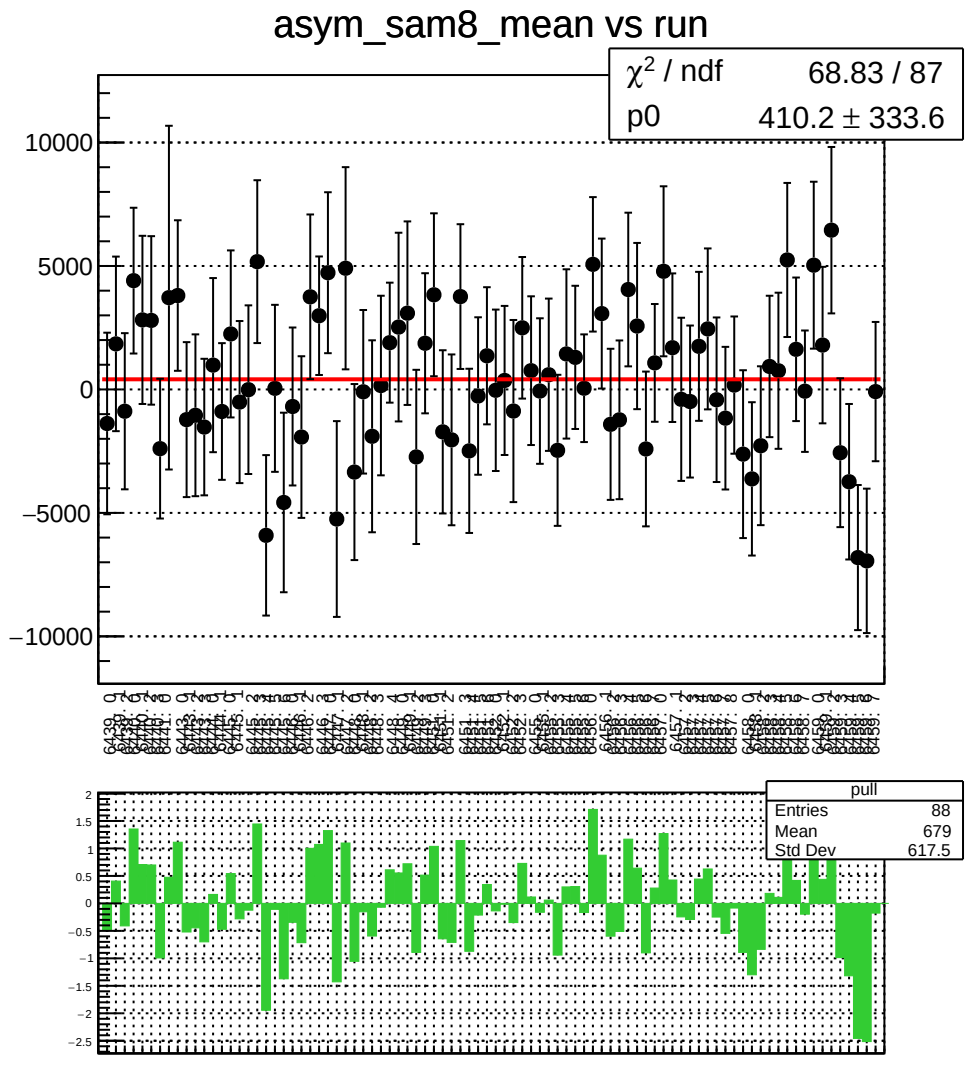

dit_asym_sam8_rms vs run
χ^2 / ndf 1.343e+04 / 87
p0 61.98 ± 0.04777
130
120
110
100
90
80
70
60

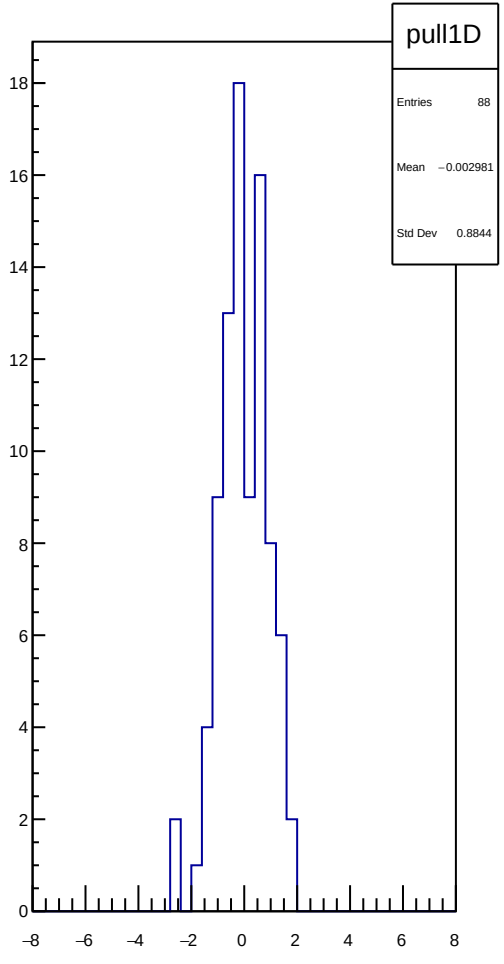

asym_sam8_correction_mean vs run
χ² / ndf 73.9 / 87
p0 −675.7 ± 331
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 3213
Std Dev 3152
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

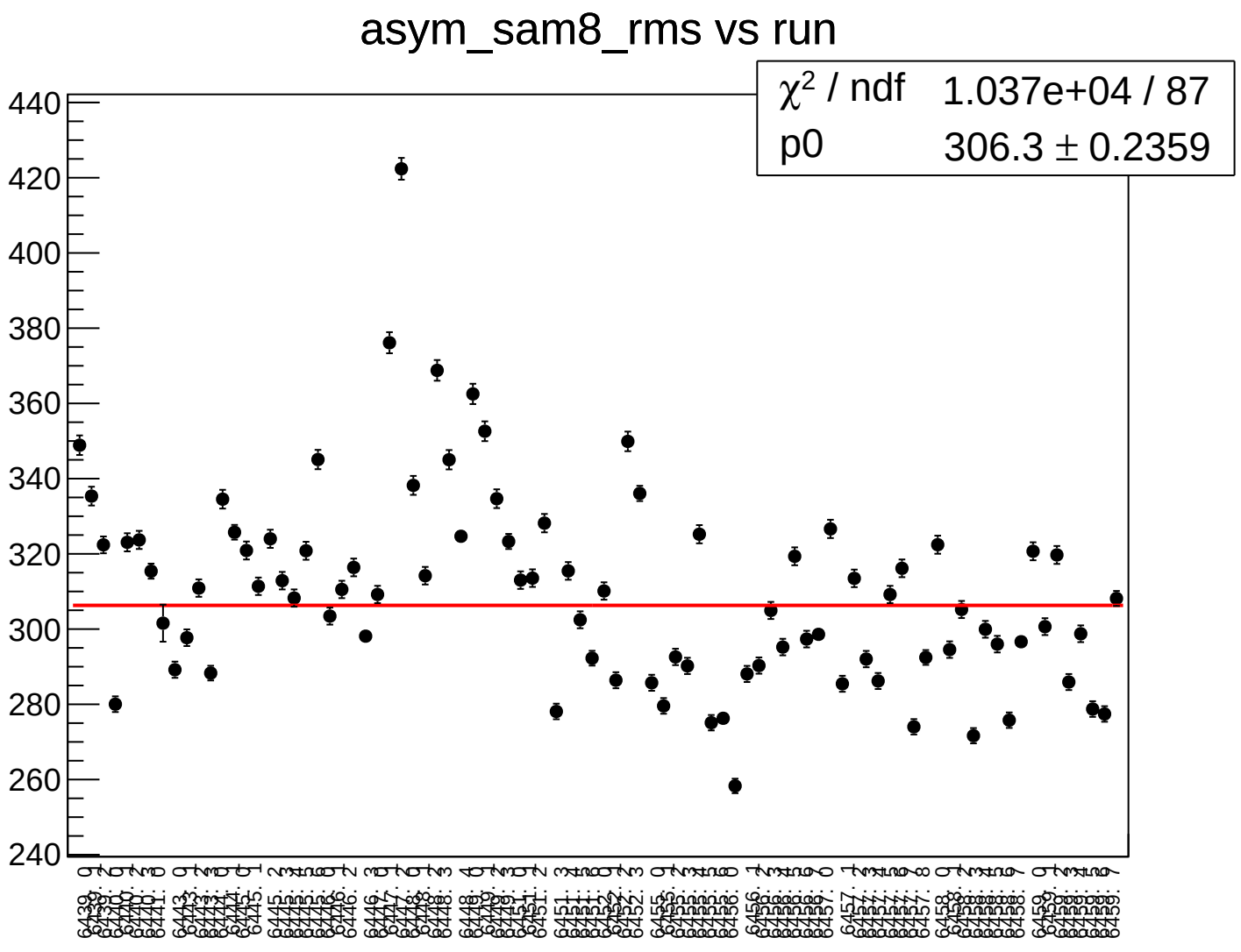

pull1D
Entries 88
Mean 0.0007882
Std Dev 0.9164
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

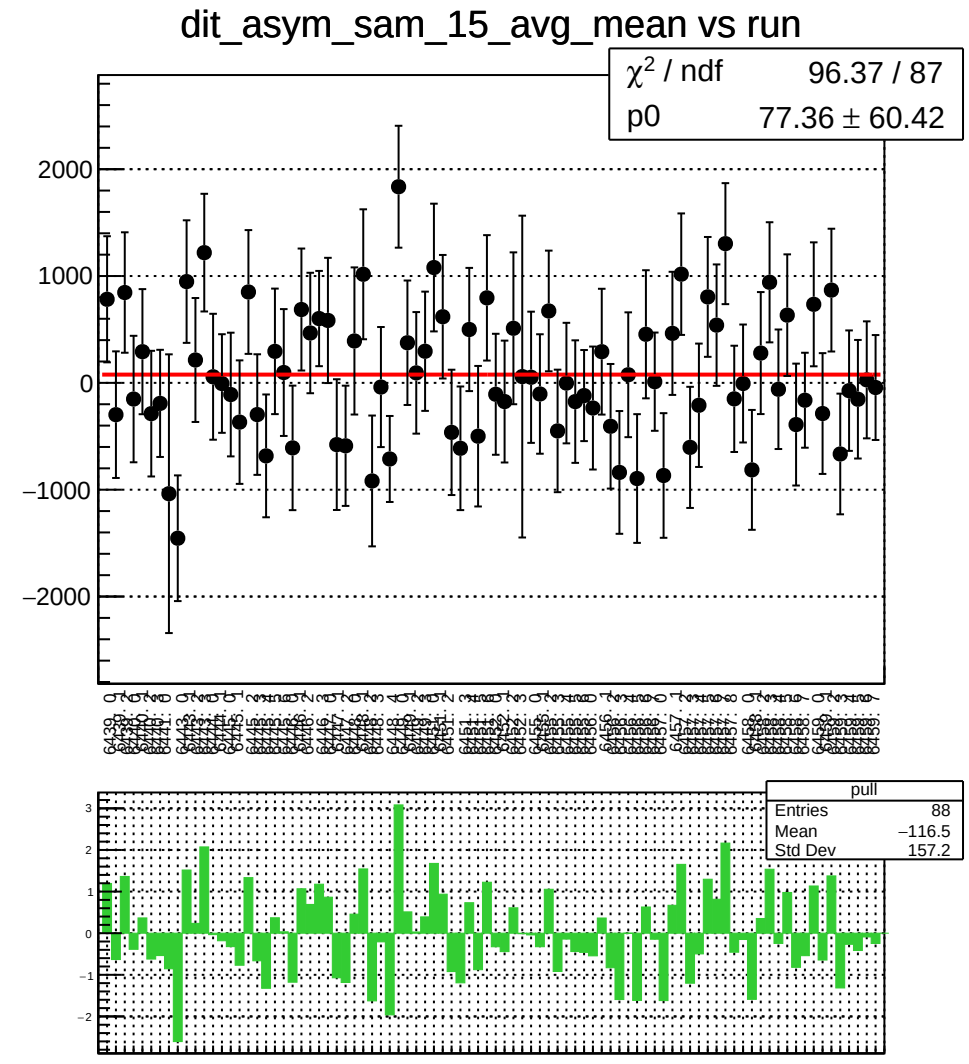
asym_sam8_correction_rms vs run

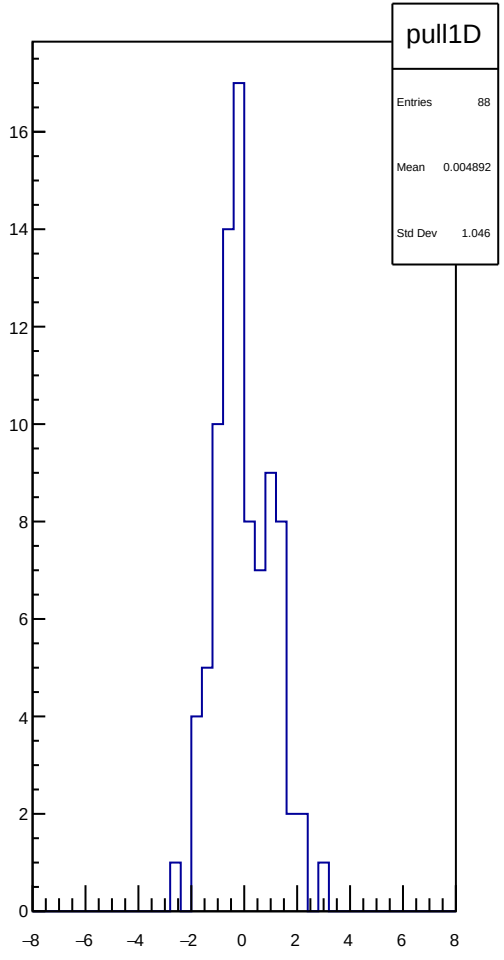


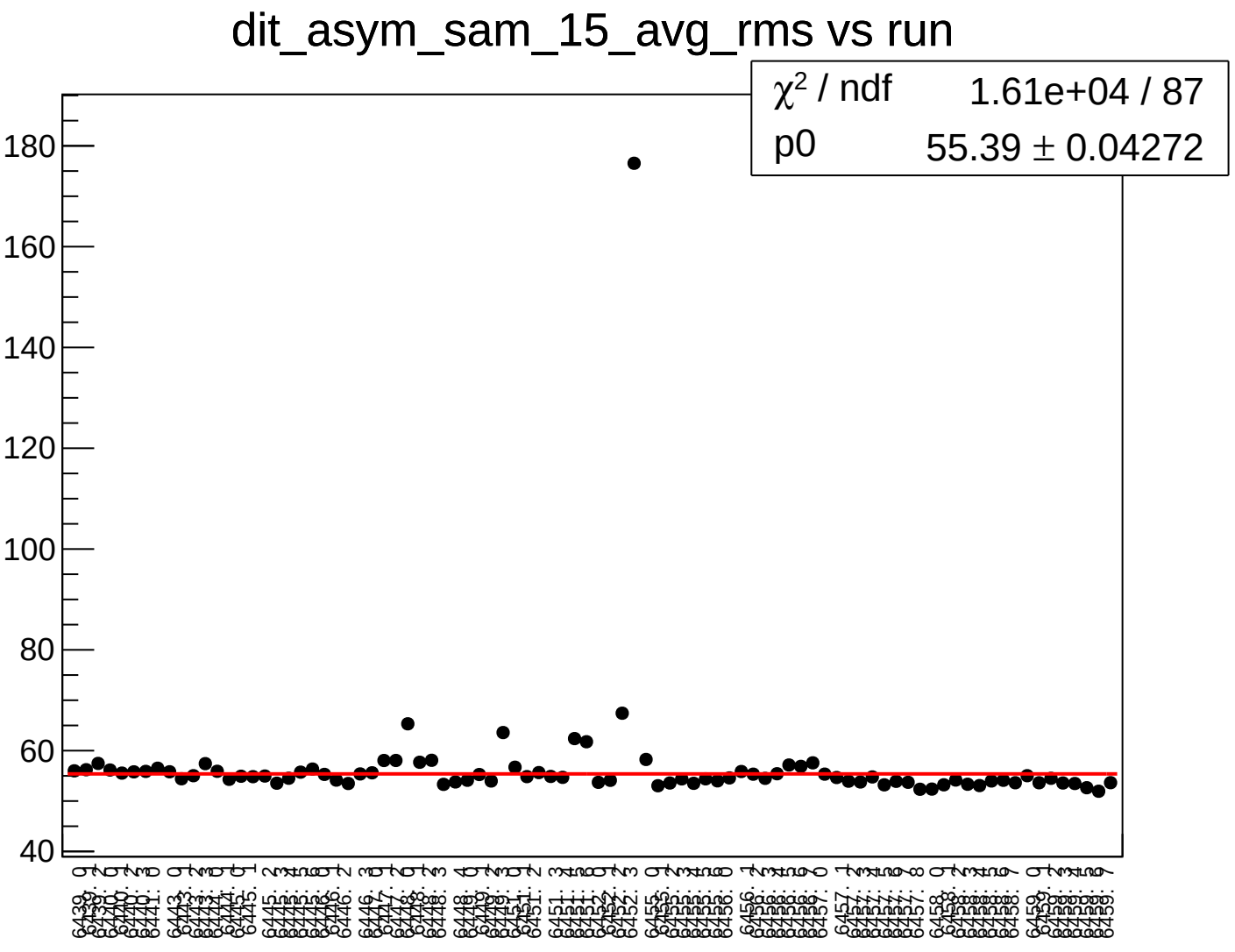

asym_sam8_mean vs run
χ² / ndf 68.83 / 87
p0 410.2 ± 333.6
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 679
Std Dev 617.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

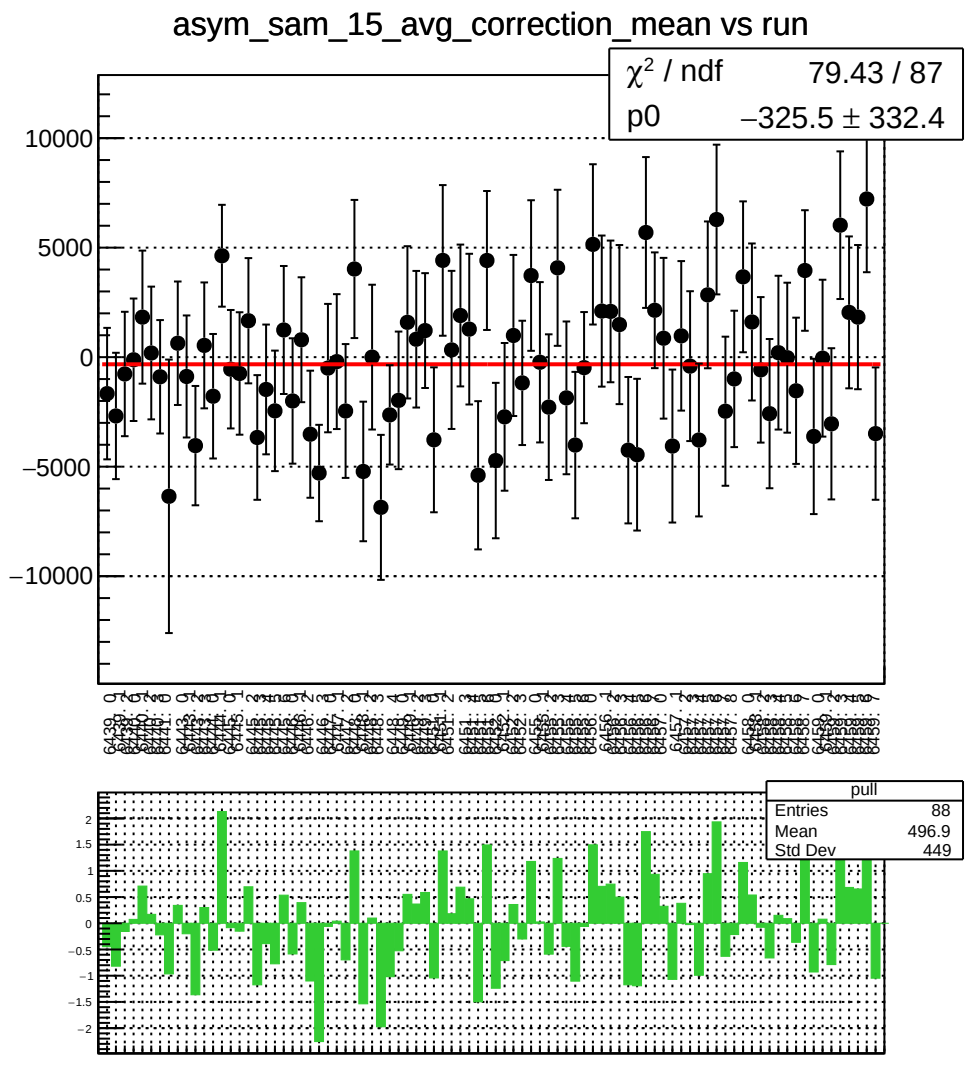

pull1D
Entries 88
Mean −0.002981
Std Dev 0.8844
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

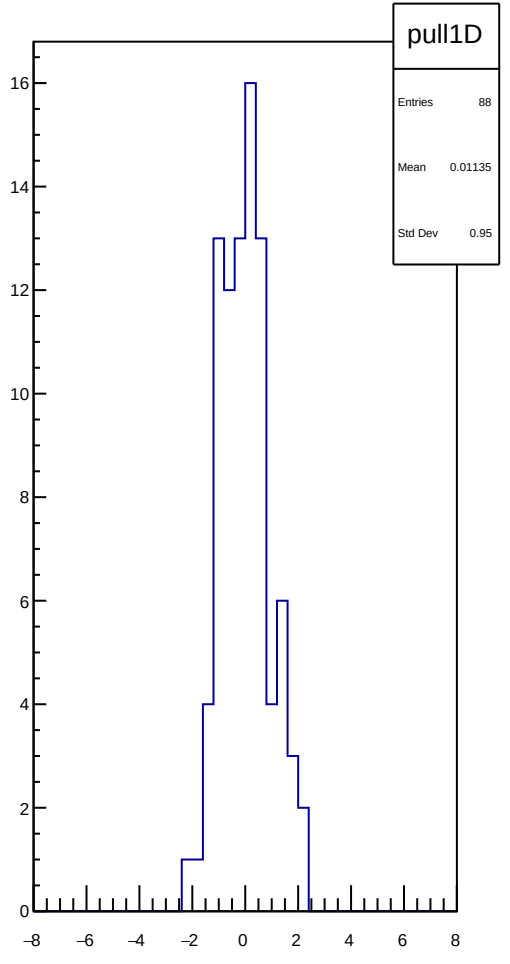

asym_sam8_rms vs run
χ^2 / ndf 1.037e+04 / 87
p0 306.3 ± 0.2359
440
420
400
380
360
340
320
300
280
260
240

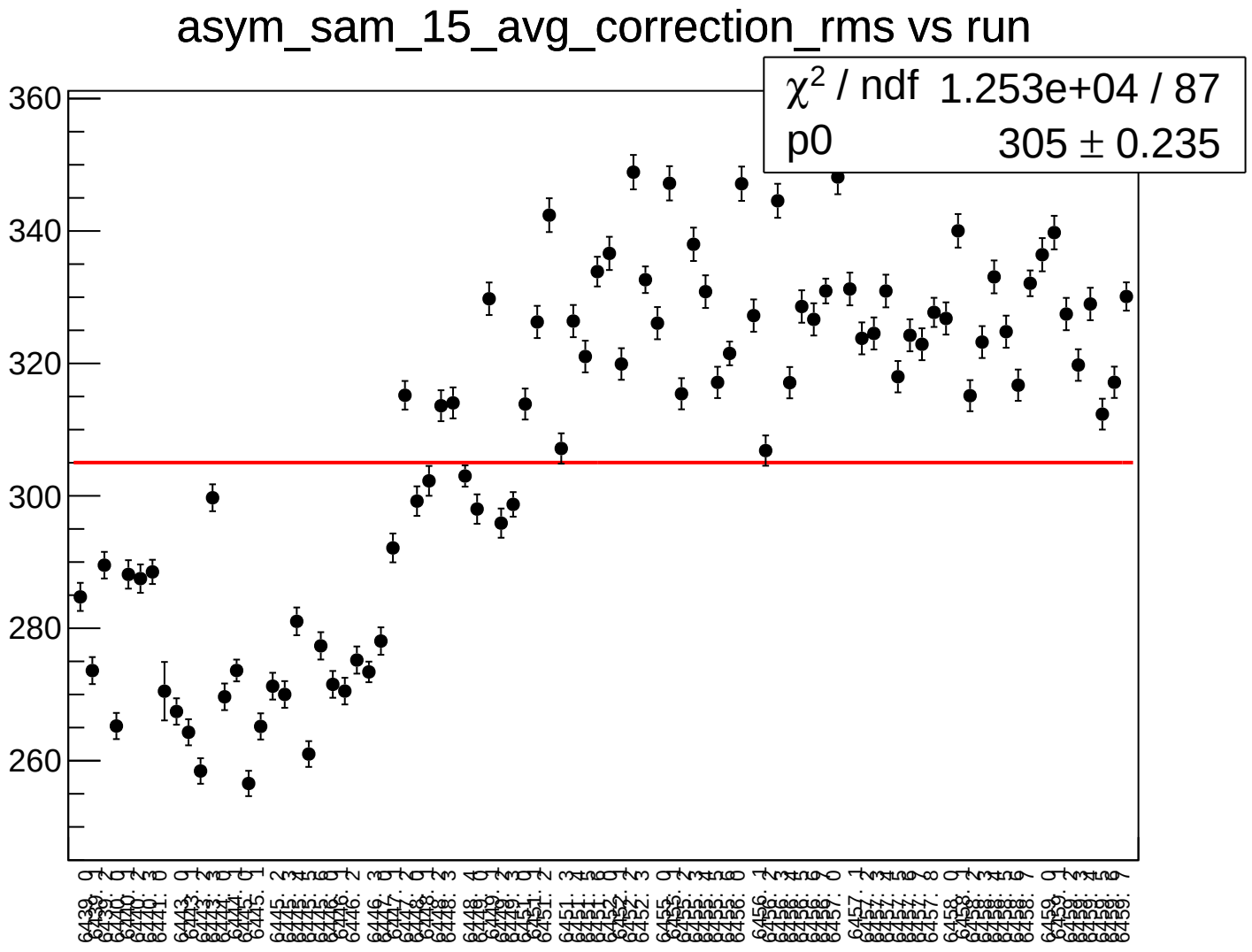

dit_asym_sam_15_avg_mean vs run
χ^2 / ndf 96.37 / 87
p0 77.36 ± 60.42
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −116.5
Std Dev 157.2
3
2
1
0
−1
−2

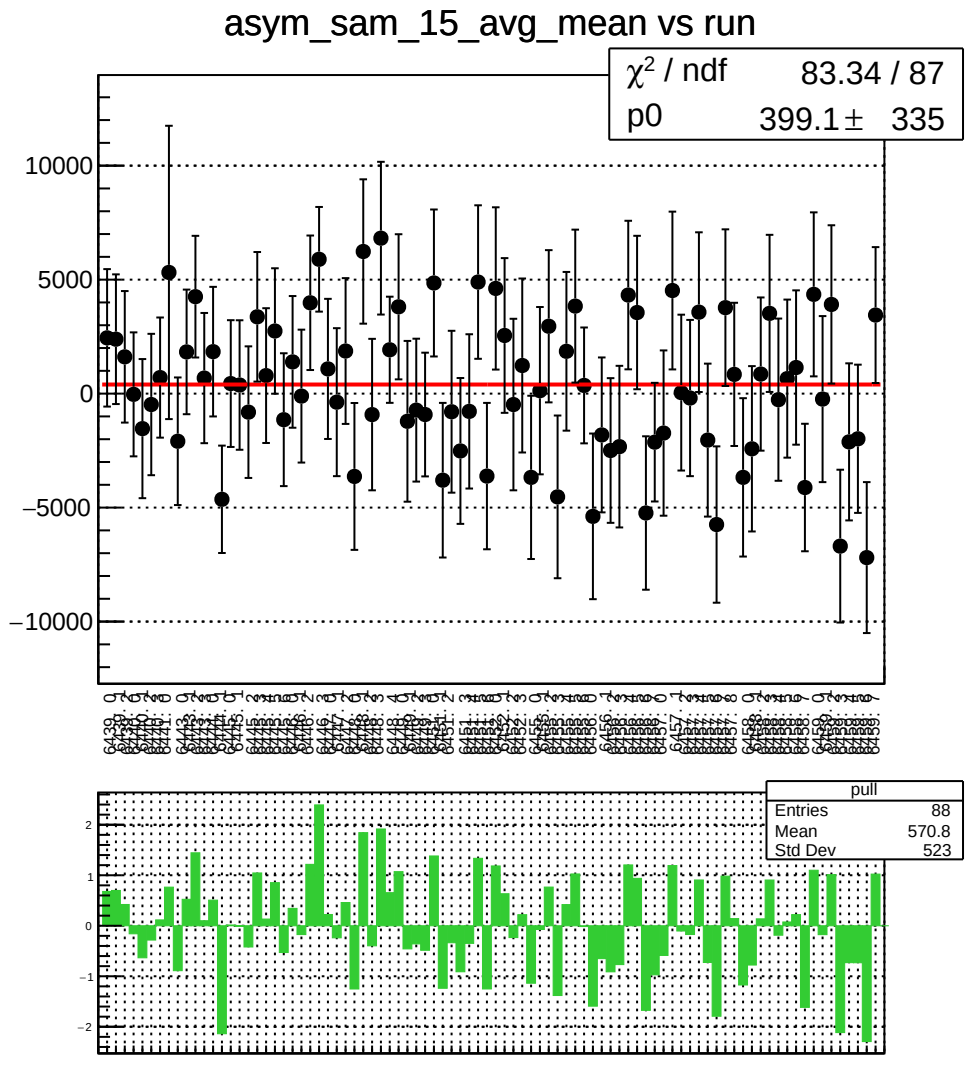

pull1D
Entries 88
Mean 0.004892
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

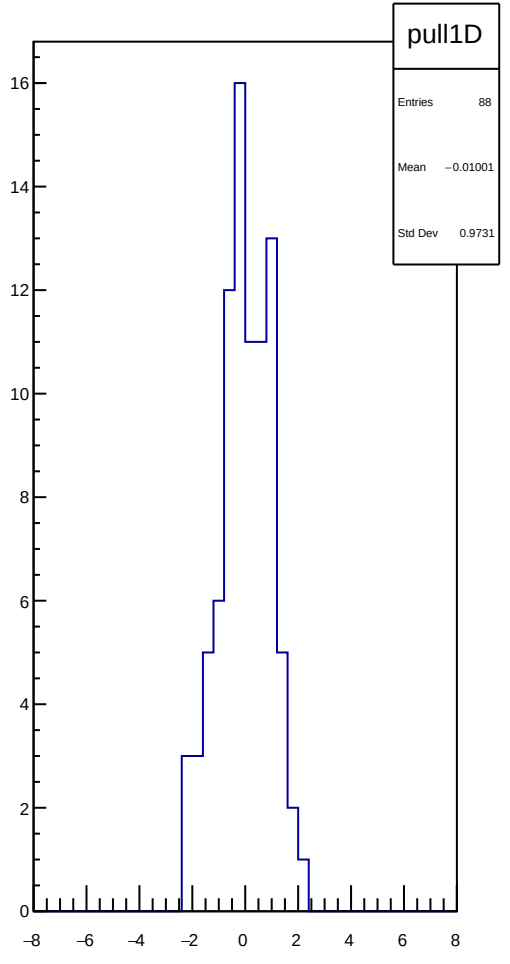

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.61e+04 / 87
p0 55.39 ± 0.04272
180
160
140
120
100
80
60
40

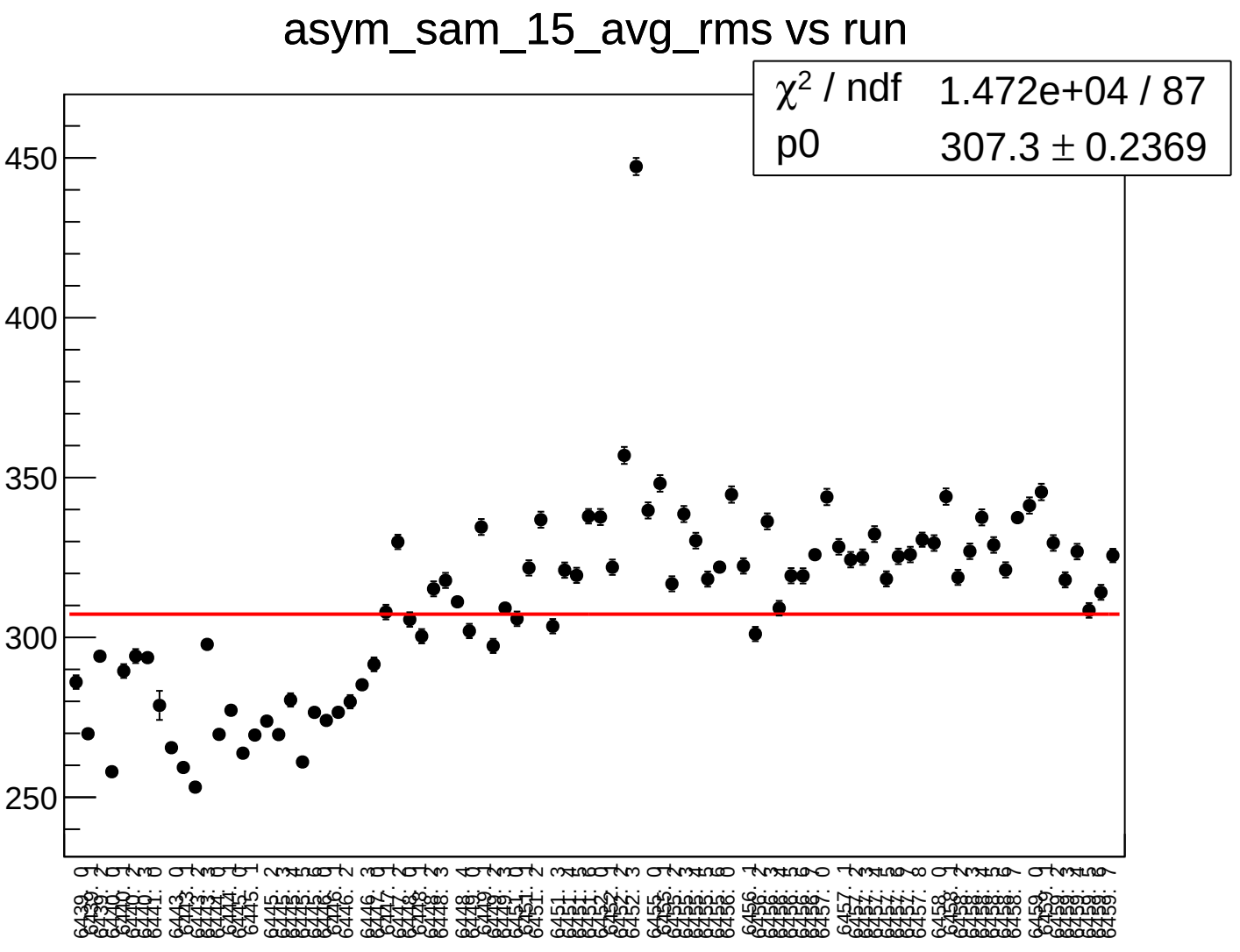

asym_sam_15_avg_correction_mean vs run
χ² / ndf 79.43 / 87
p0 −325.5 ± 332.4
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 496.9
Std Dev 449
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

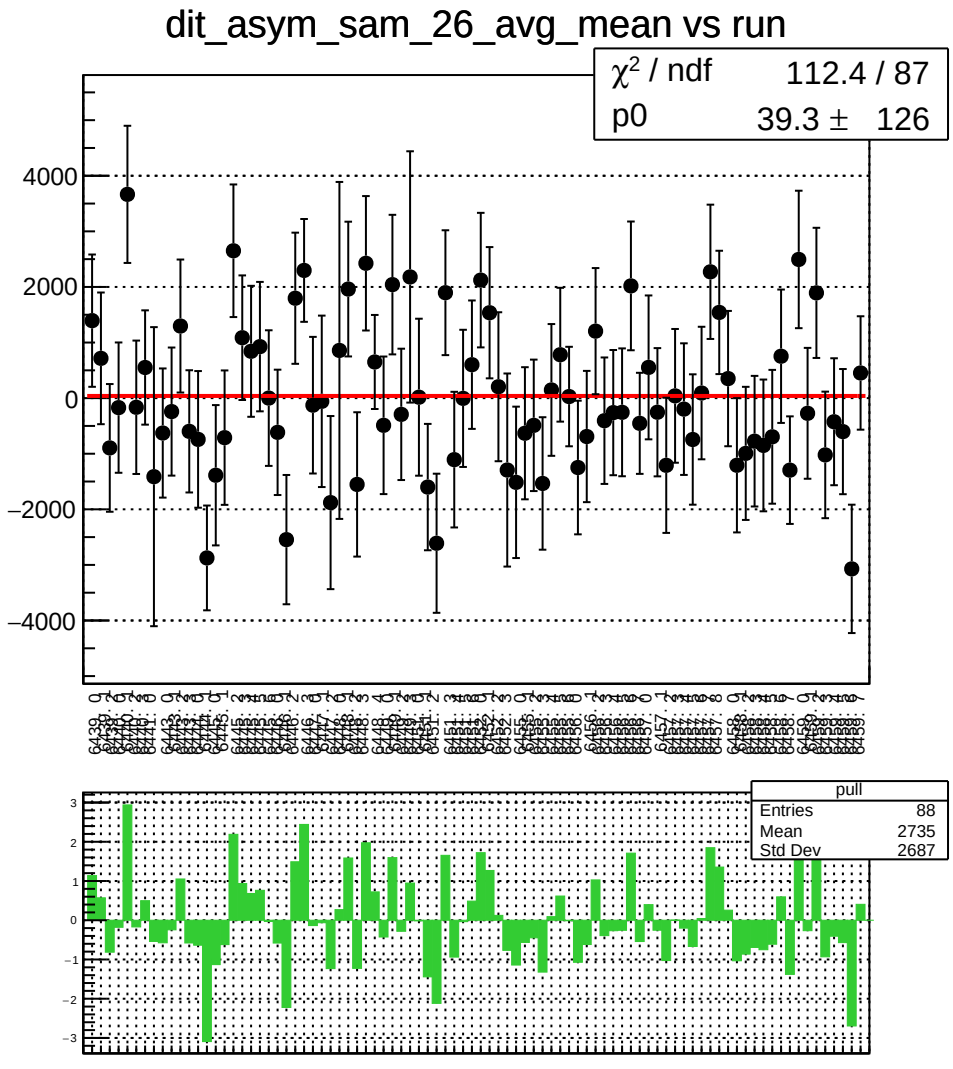

pull1D
Entries 88
Mean 0.01135
Std Dev 0.95
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

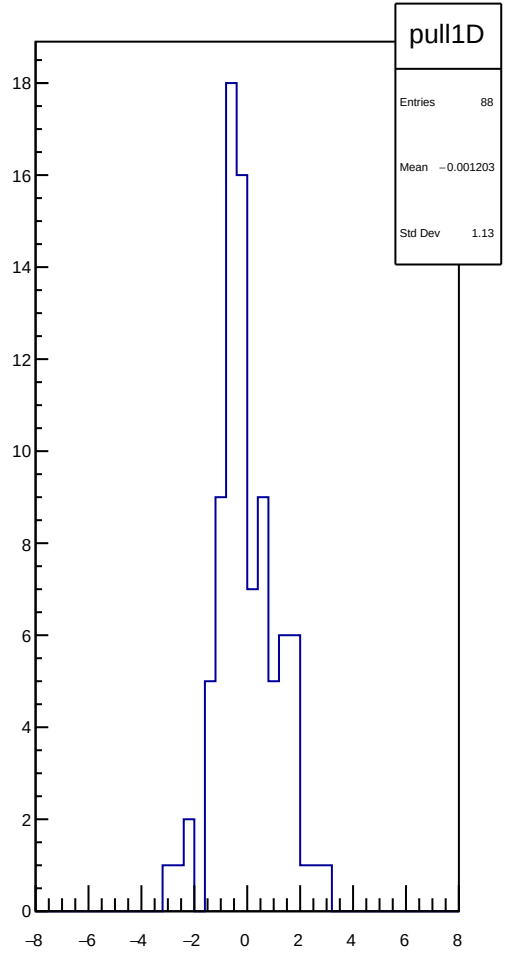

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1.253e+04 / 87
p0 305 ± 0.235
360
340
320
300
280
260

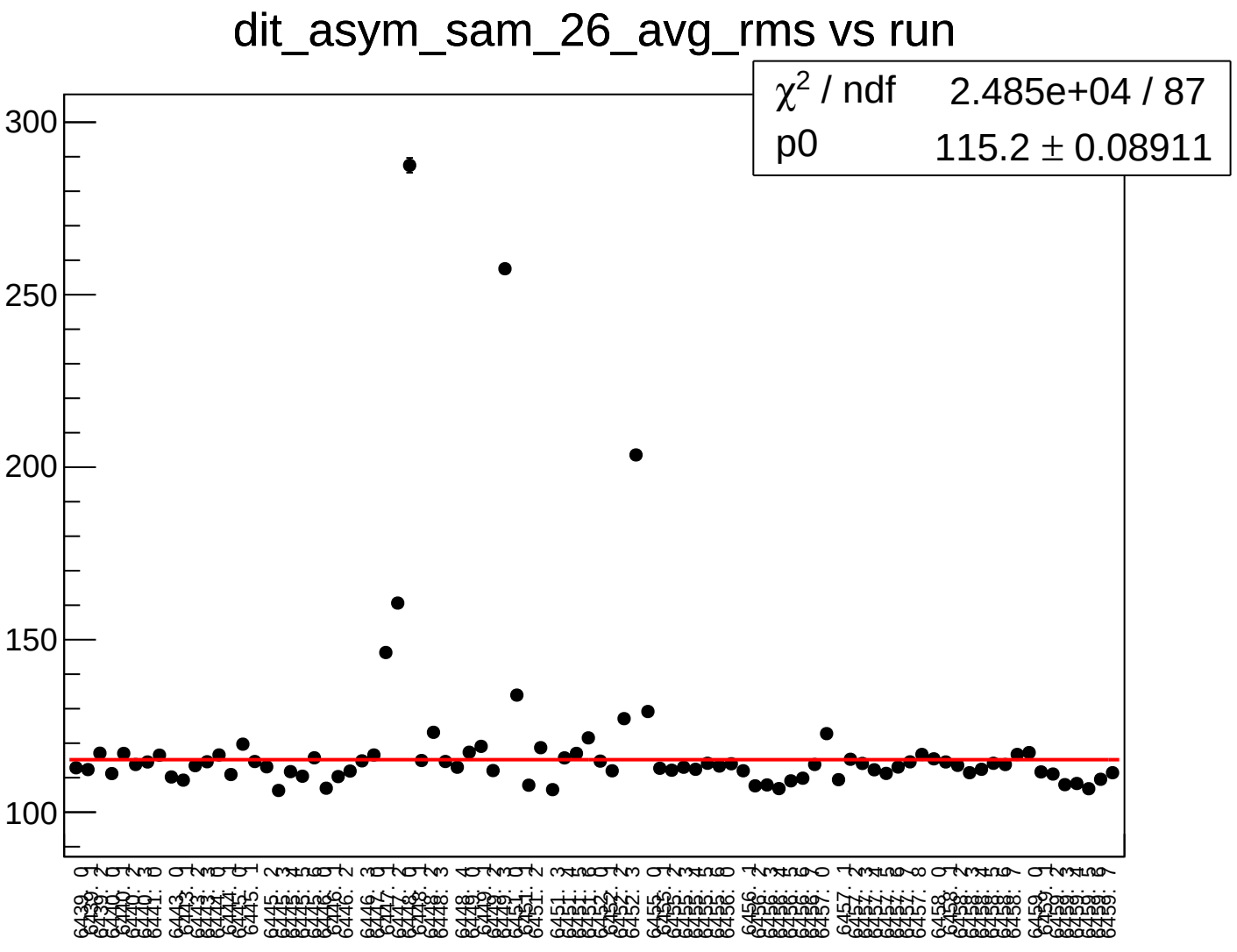

asym_sam_15_avg_mean vs run
χ² / ndf 83.34 / 87
p0 399.1 ± 335
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 570.8
Std Dev 523
2
1
0
−1
−2

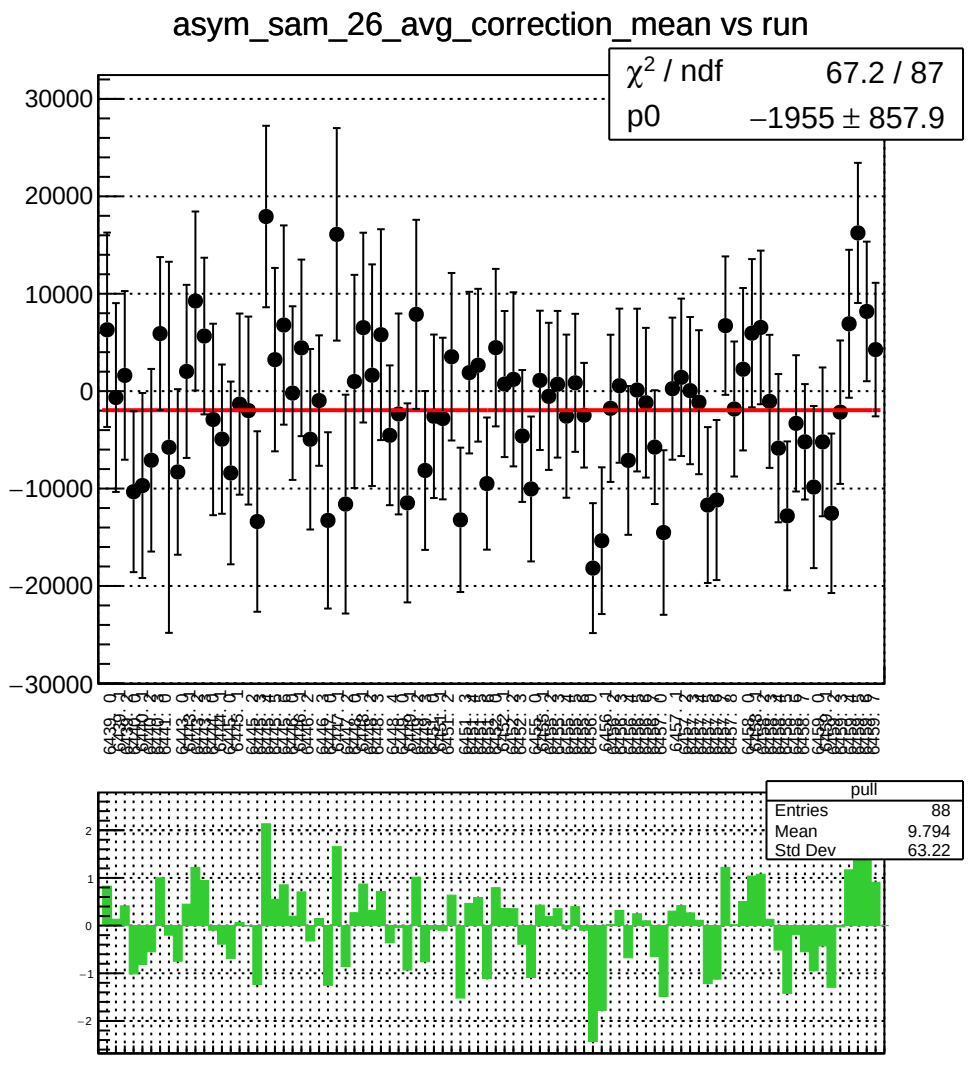

pull1D
Entries 88
Mean −0.01001
Std Dev 0.9731
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

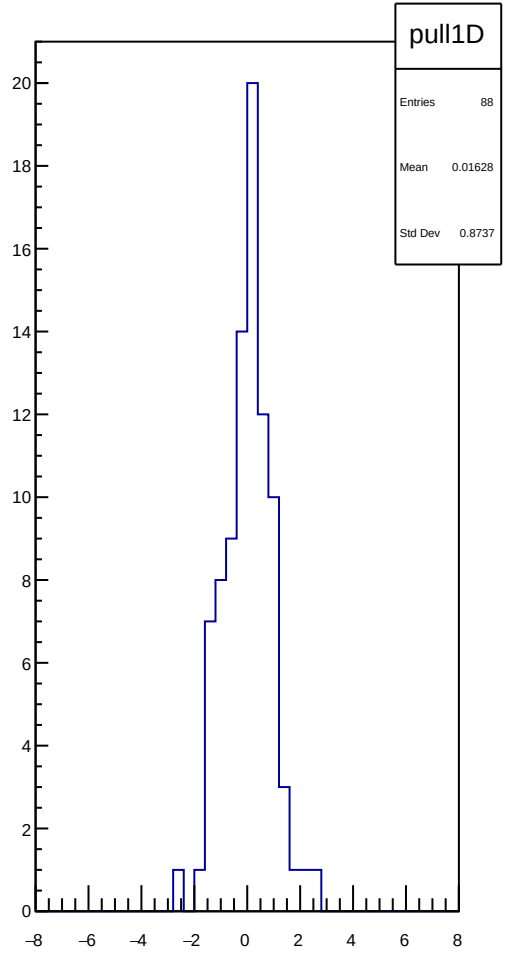

asym_sam_15_avg_rms vs run
χ² / ndf 1.472e+04 / 87
p0 307.3 ± 0.2369
450
400
350
300
250

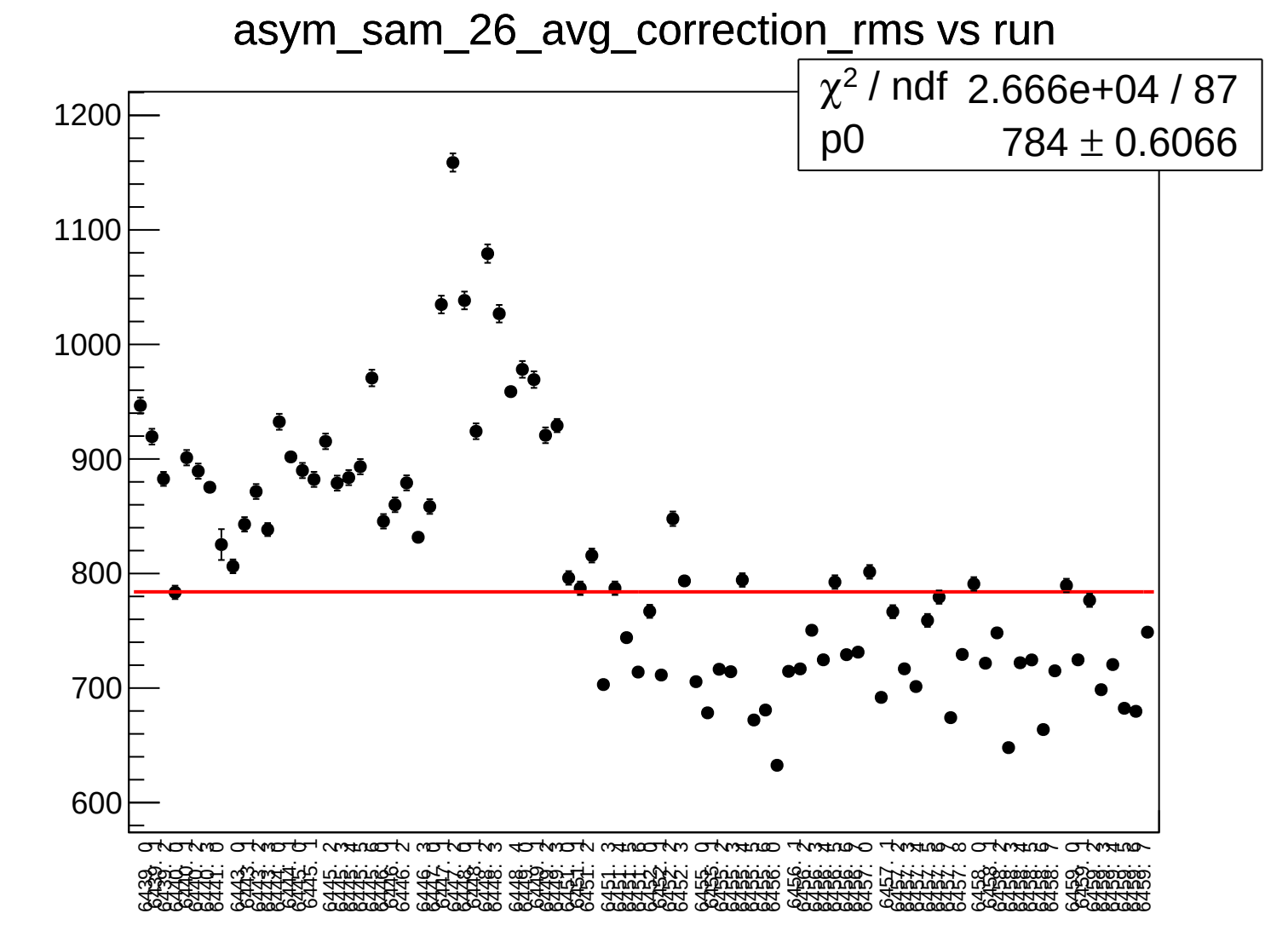

dit_asym_sam_26_avg_mean vs run
χ² / ndf 112.4 / 87
p0 39.3 ± 126
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 2735
Std Dev 2687
3
2
1
0
−1
−2
−3

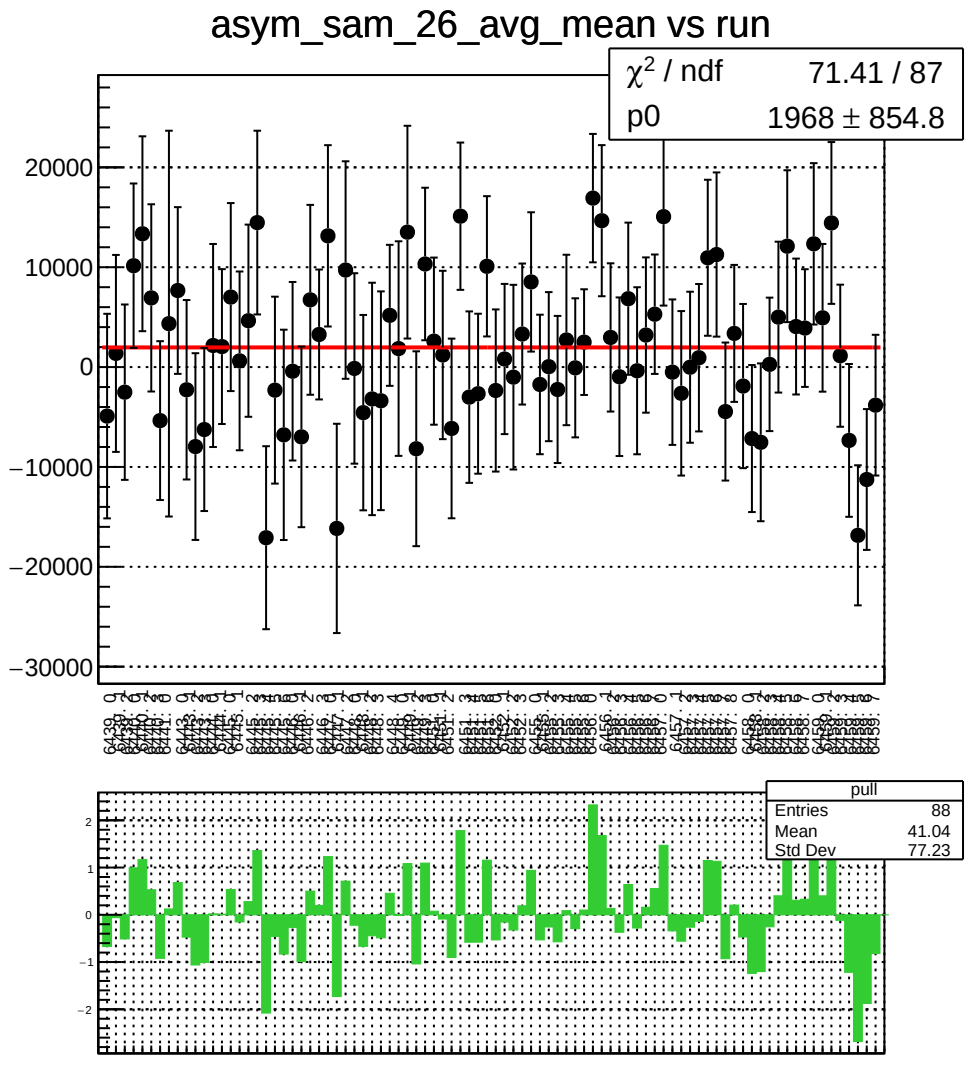

pull1D
Entries 88
Mean −0.001203
Std Dev 1.13
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

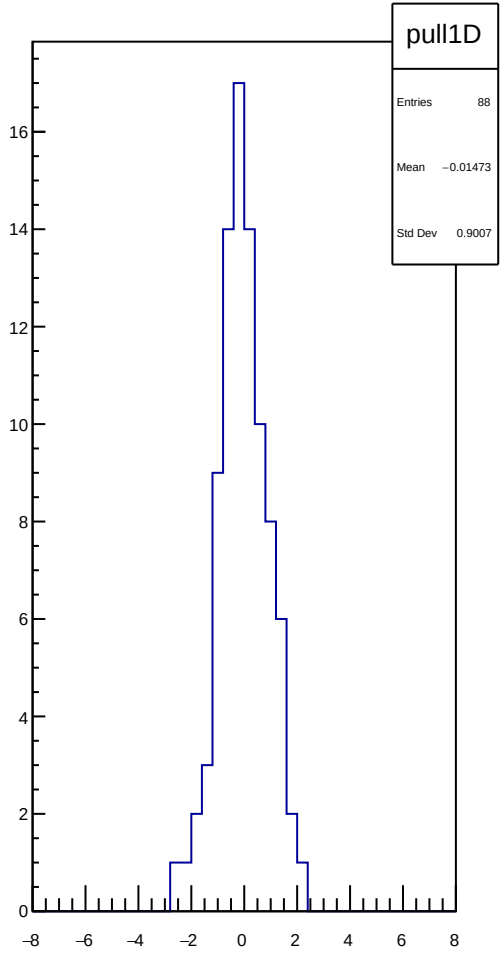

dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.485e+04 / 87
p0 115.2 ± 0.08911
300
250
200
150
100

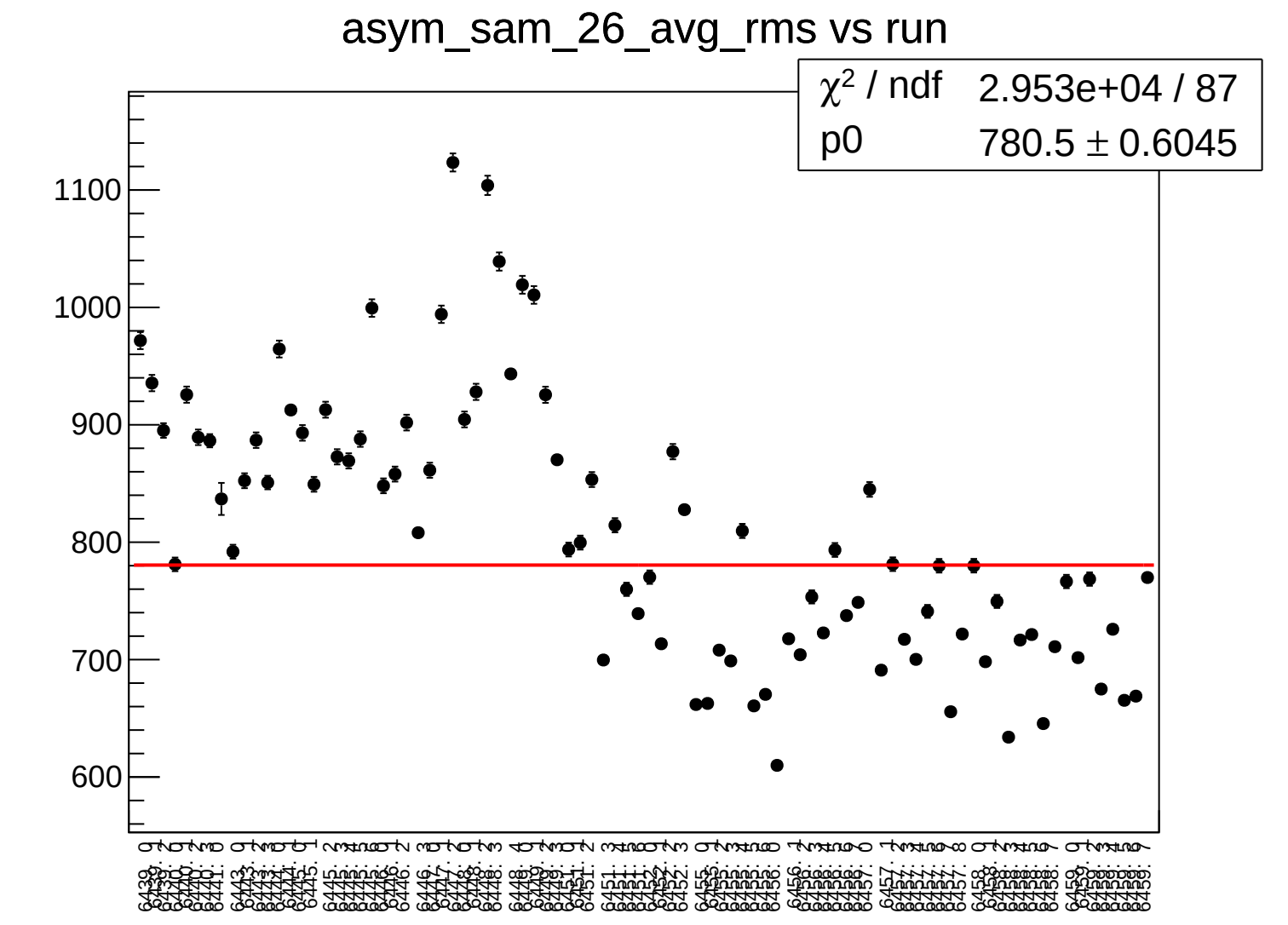

asym_sam_26_avg_correction_mean vs run
χ² / ndf 67.2 / 87
p0 −1955 ± 857.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 9.794
Std Dev 63.22
2
1
0
−1
−2

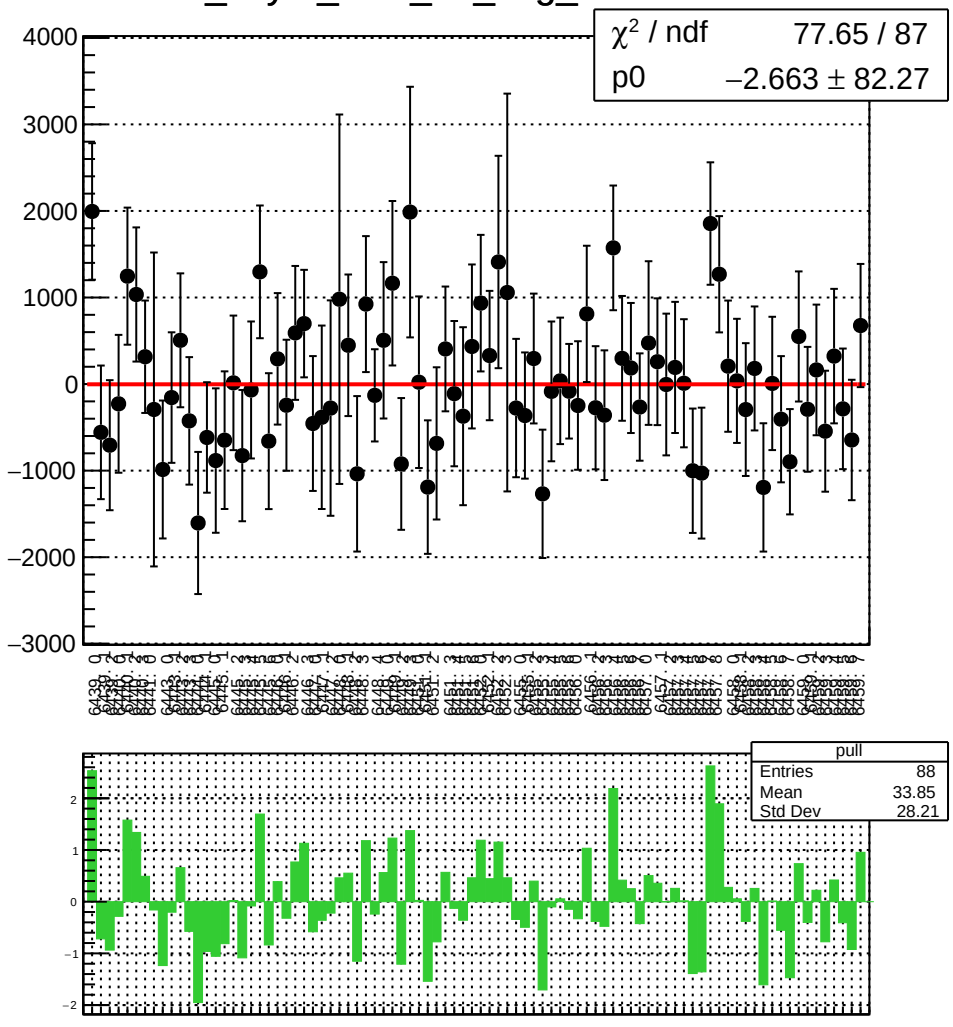

pull1D
Entries 88
Mean 0.01628
Std Dev 0.8737
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

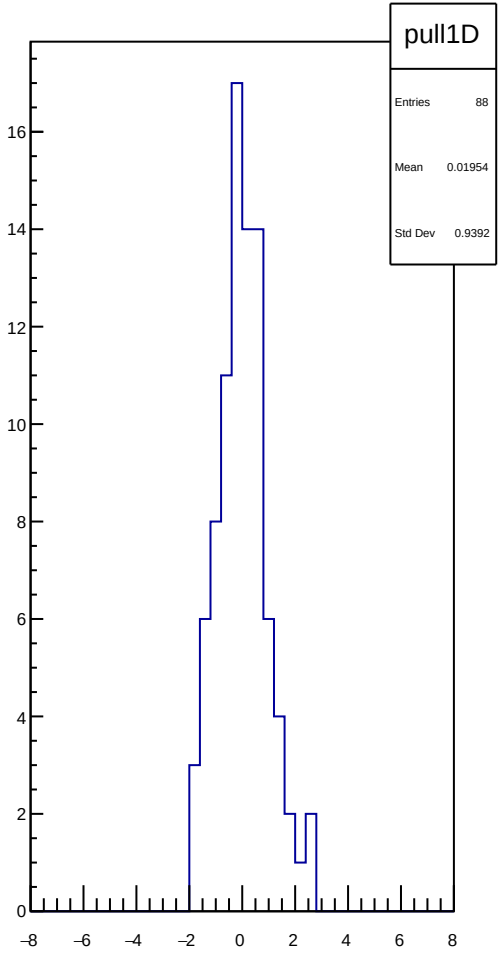

asym_sam_26_avg_correction_rms vs run
χ² / ndf 2.666e+04 / 87
p0 784 ± 0.6066
1200
1100
1000
900
800
700
600

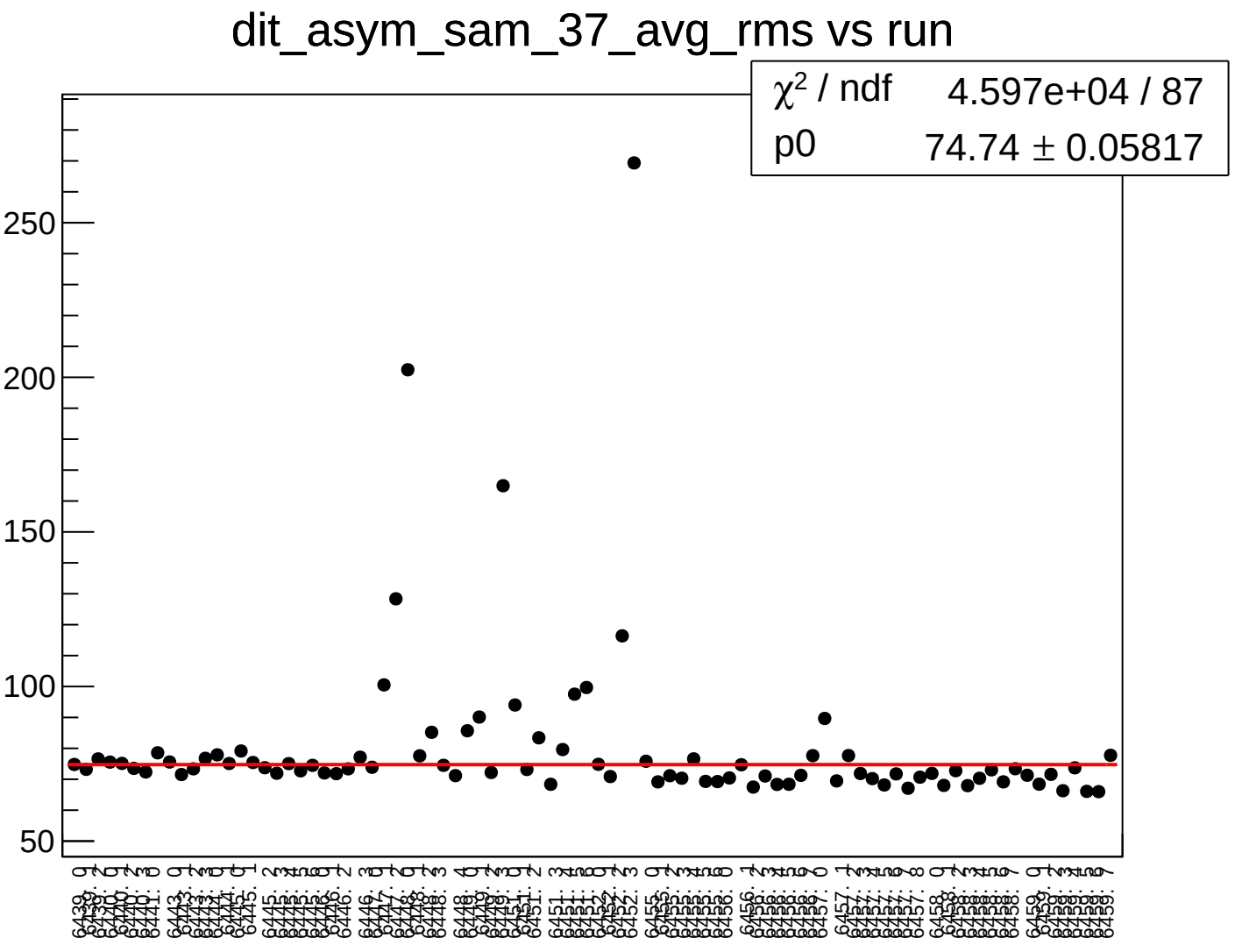

asym_sam_26_avg_mean vs run
χ² / ndf 71.41 / 87
p0 1968 ± 854.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 41.04
Std Dev 77.23
2
1
0
−1
−2

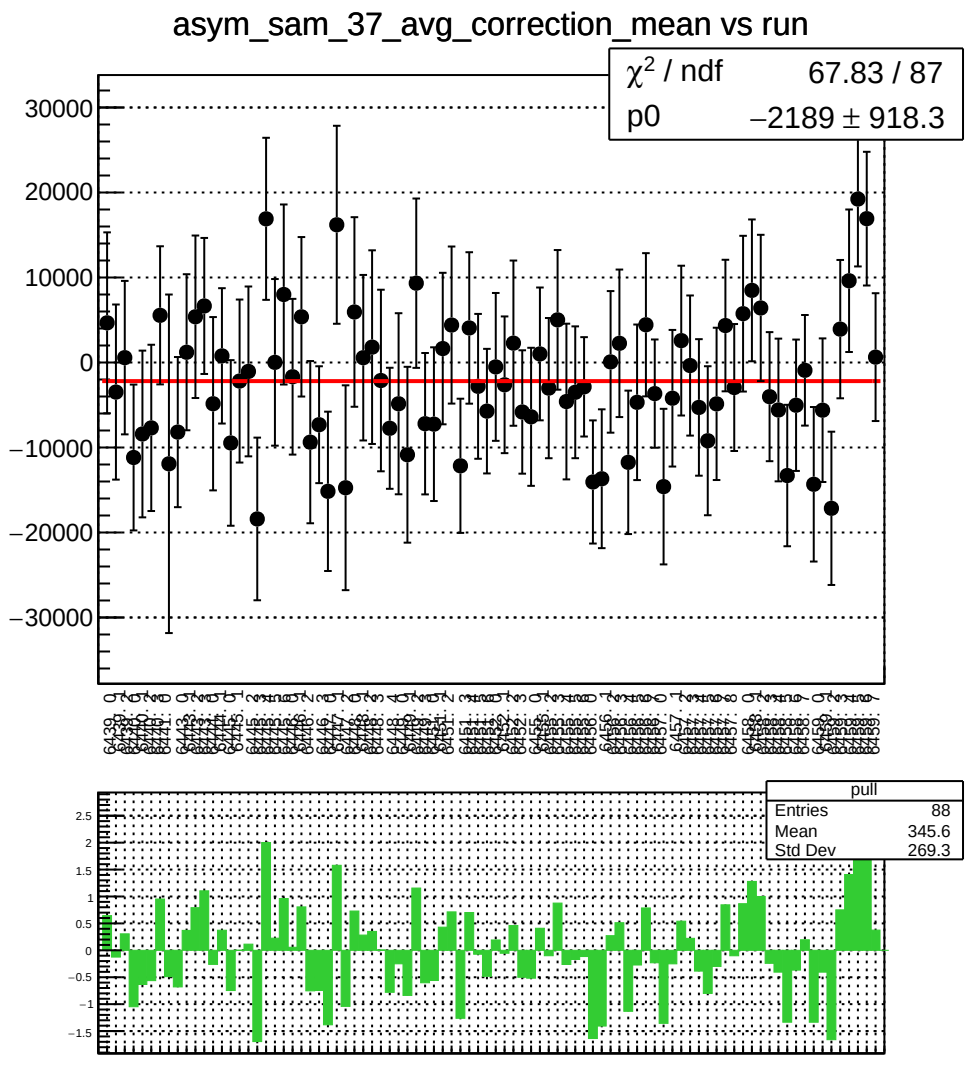

pull1D
Entries 88
Mean −0.01473
Std Dev 0.9007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

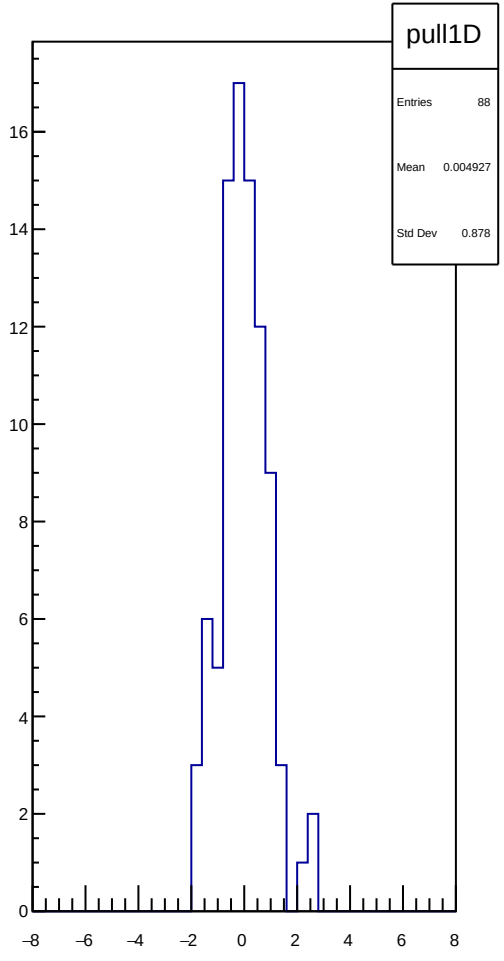

asym_sam_26_avg_rms vs run
χ² / ndf 2.953e+04 / 87
p0 780.5 ± 0.6045
1100
1000
900
800
700
600

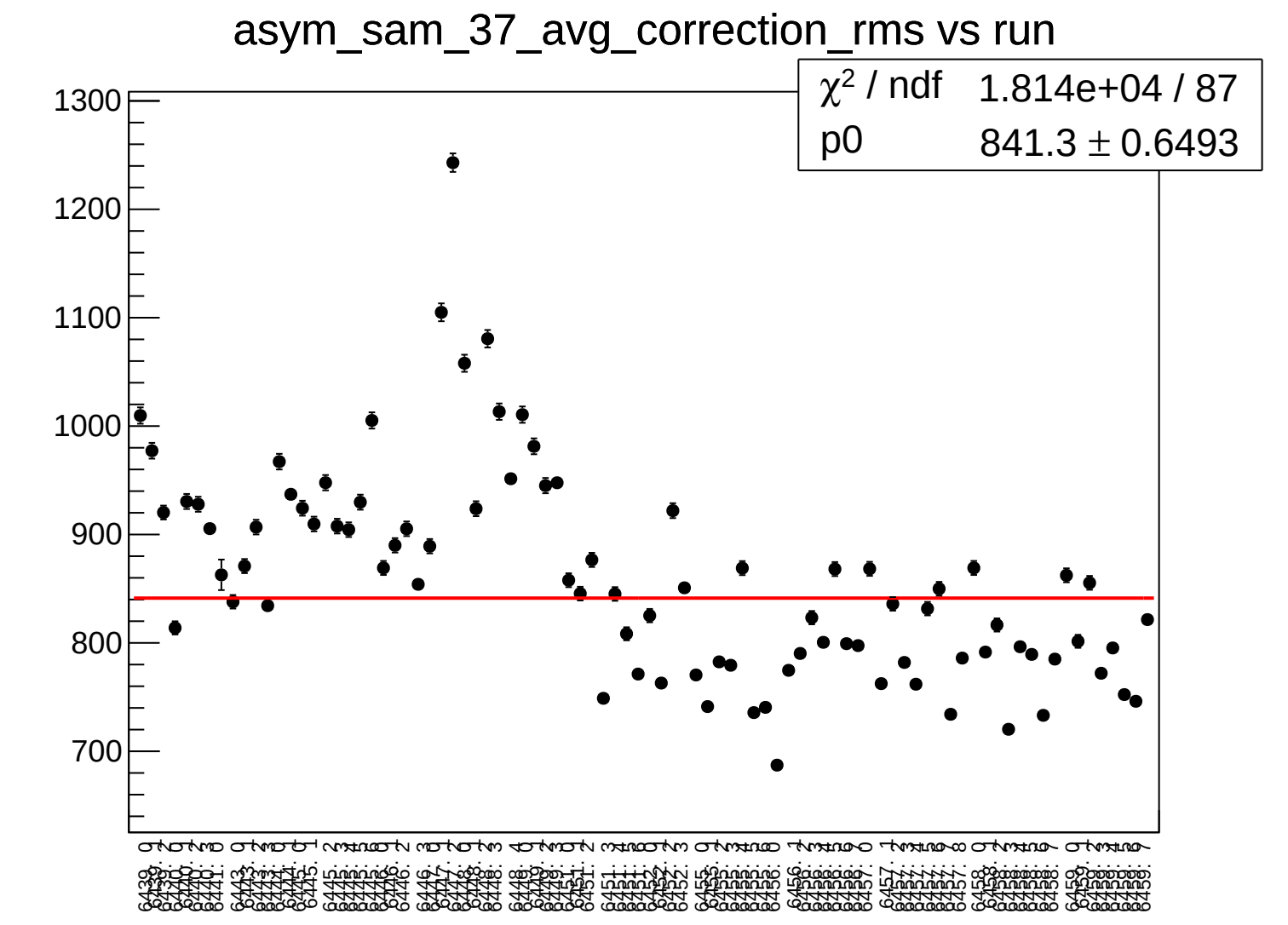

dit_asym_sam_37_avg_mean vs run
χ^2 / ndf 77.65 / 87
p0 −2.663 ± 82.27
pull
Entries 88
Mean 33.85
Std Dev 28.21

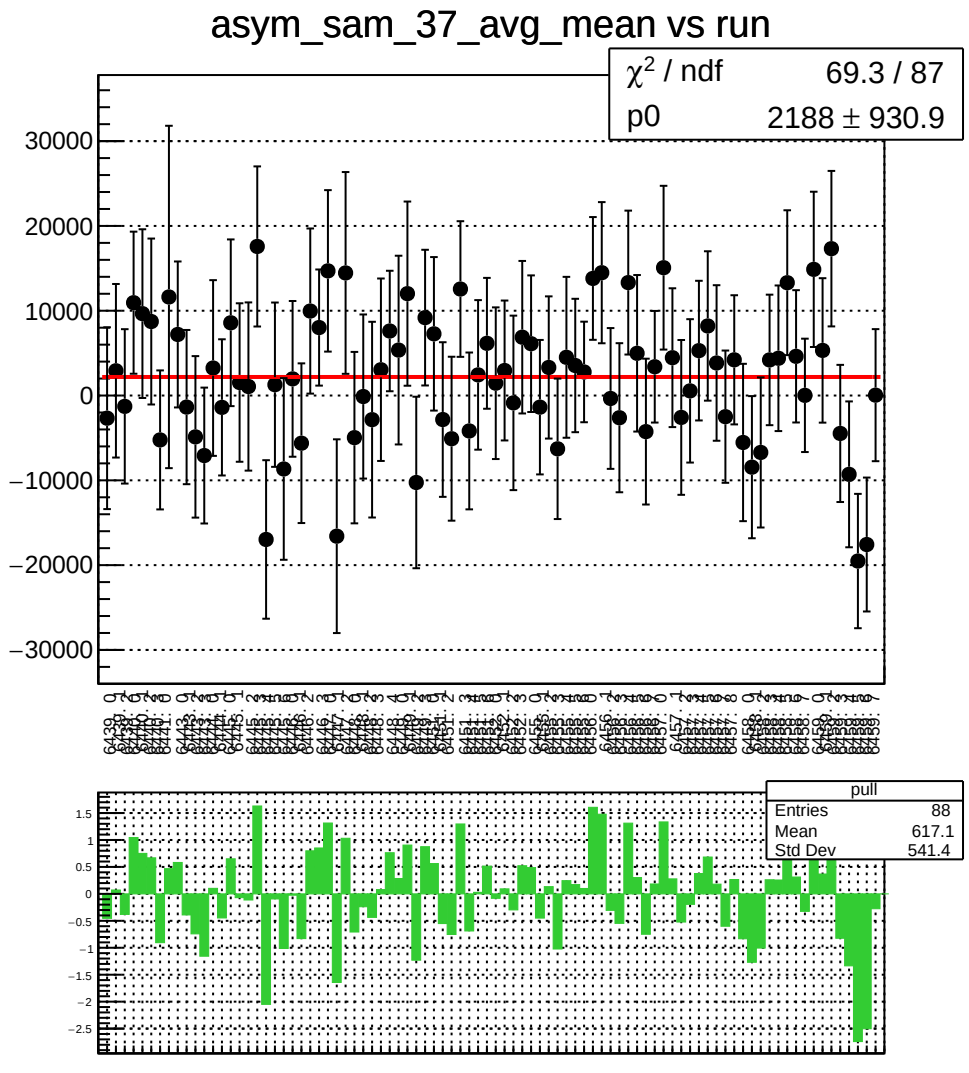

pull1D
Entries 88
Mean 0.01954
Std Dev 0.9392

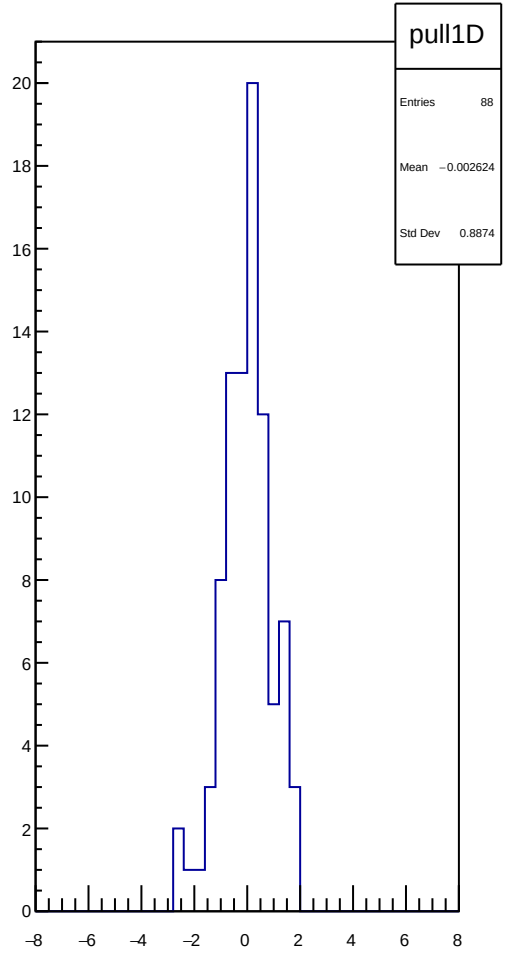

dit_asym_sam_37_avg_rms vs run
χ² / ndf 4.597e+04 / 87
p0 74.74 ± 0.05817
250
200
150
100
50

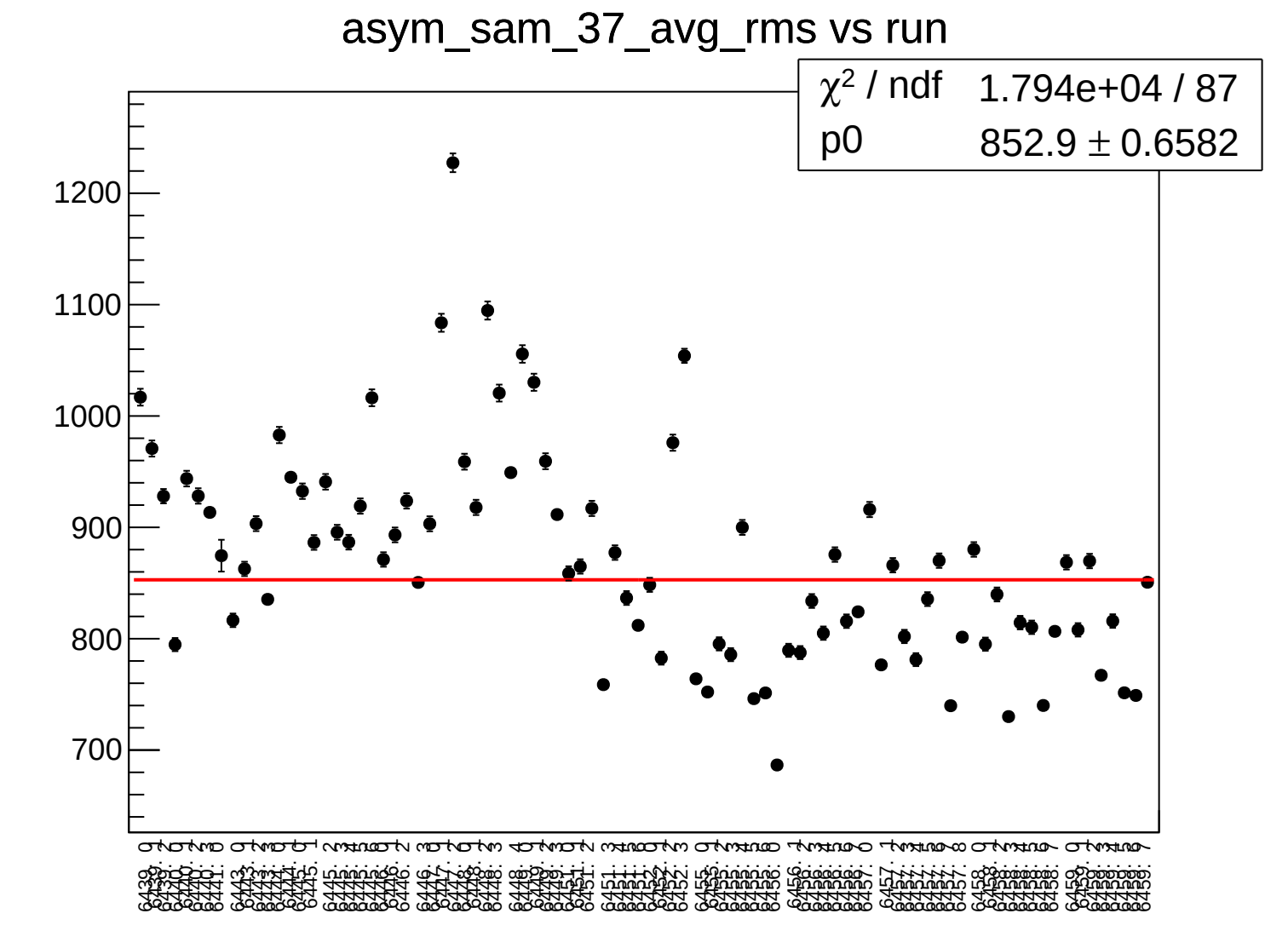

asym_sam_37_avg_correction_mean vs run
χ² / ndf 67.83 / 87
p0 −2189 ± 918.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 345.6
Std Dev 269.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

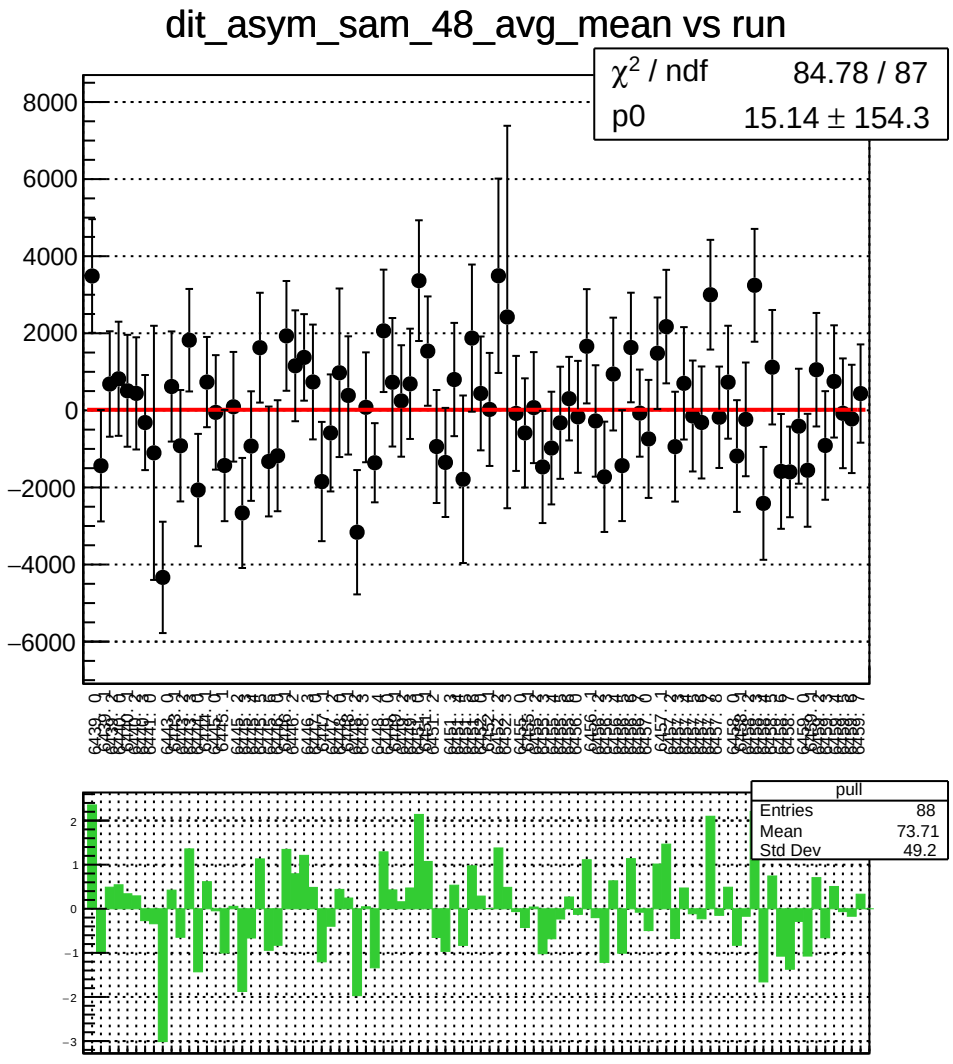

pull1D
Entries 88
Mean 0.004927
Std Dev 0.878
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

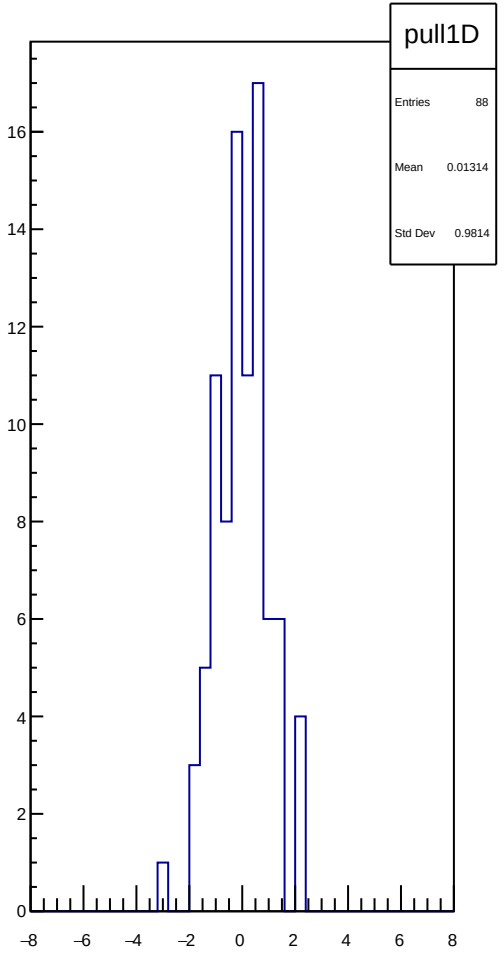

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1.814e+04 / 87
p0 841.3 ± 0.6493
1300
1200
1100
1000
900
800
700

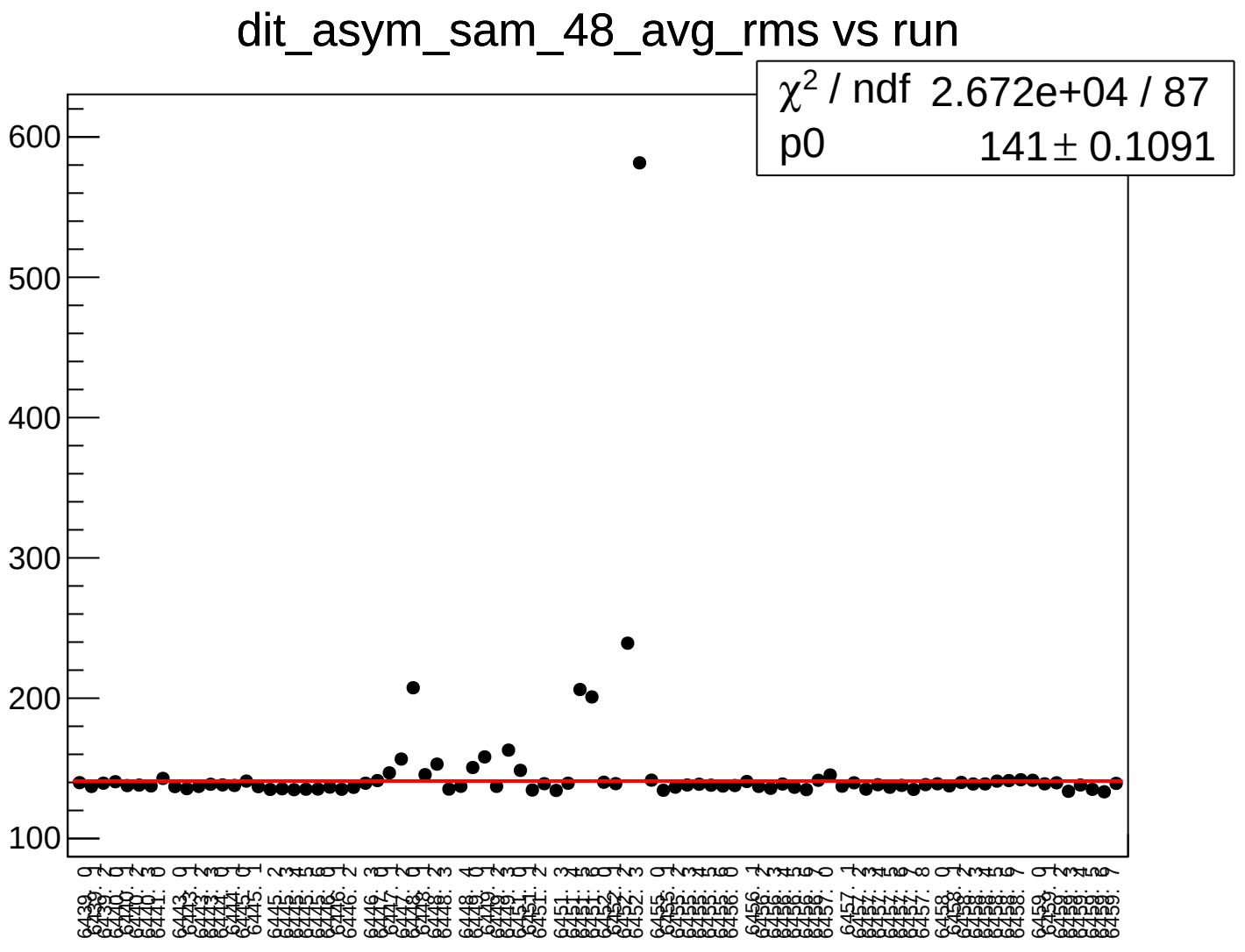

asym_sam_37_avg_mean vs run
χ² / ndf 69.3 / 87
p0 2188 ± 930.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 617.1
Std Dev 541.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

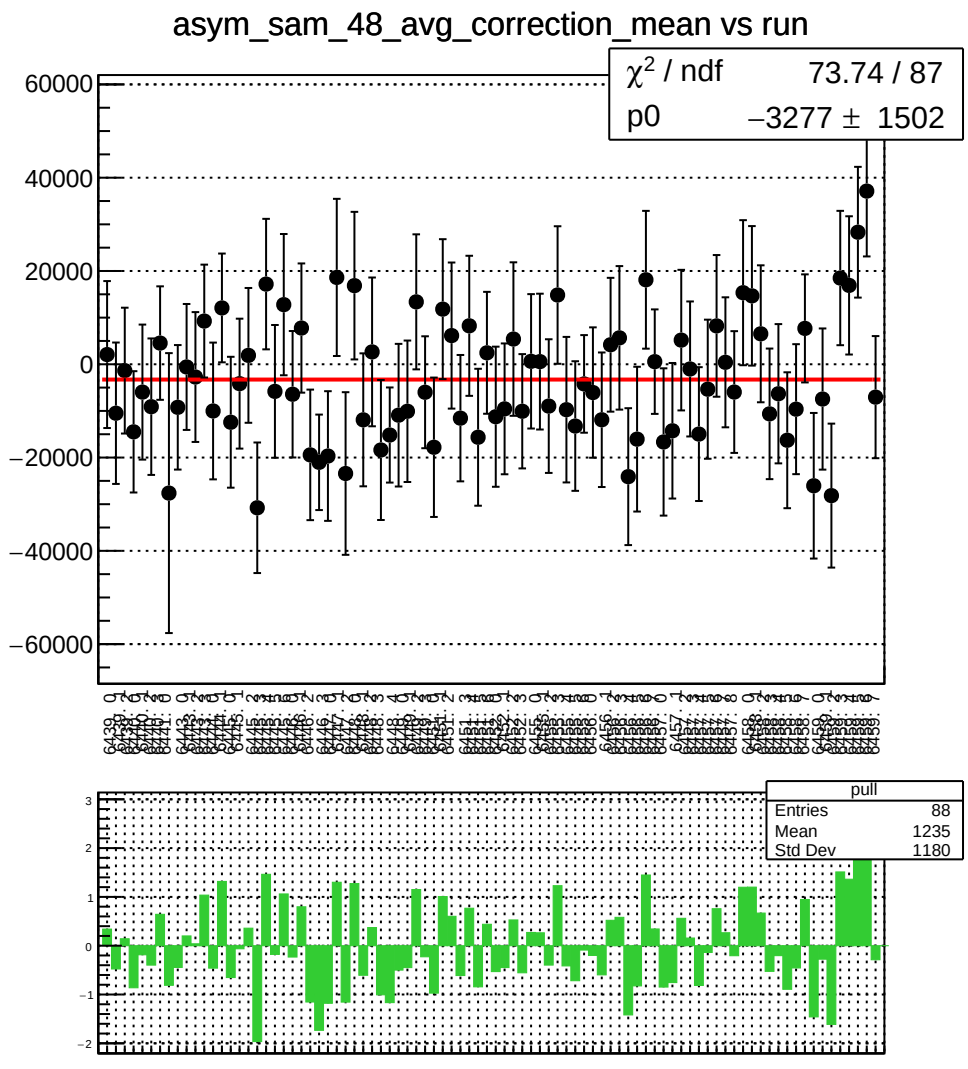

pull1D
Entries 88
Mean −0.002624
Std Dev 0.8874
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

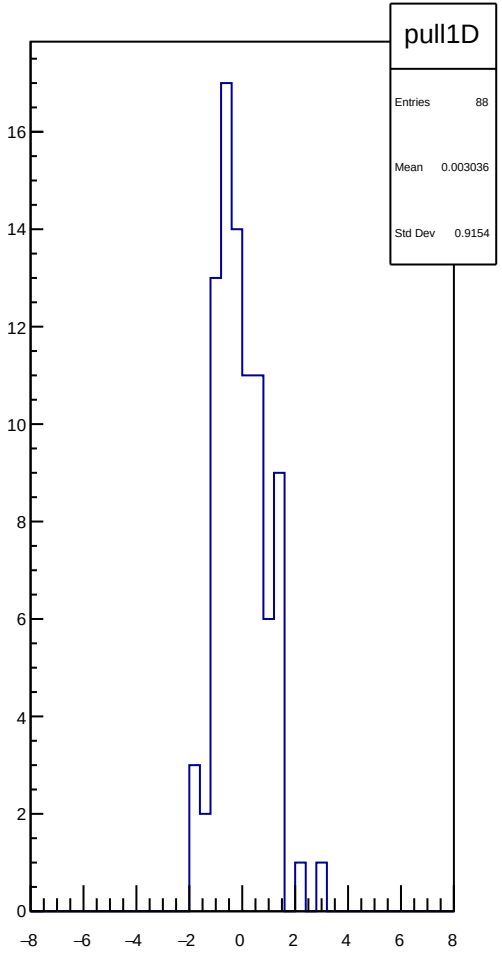

asym_sam_37_avg_rms vs run
χ² / ndf 1.794e+04 / 87
p0 852.9 ± 0.6582
1200
1100
1000
900
800
700

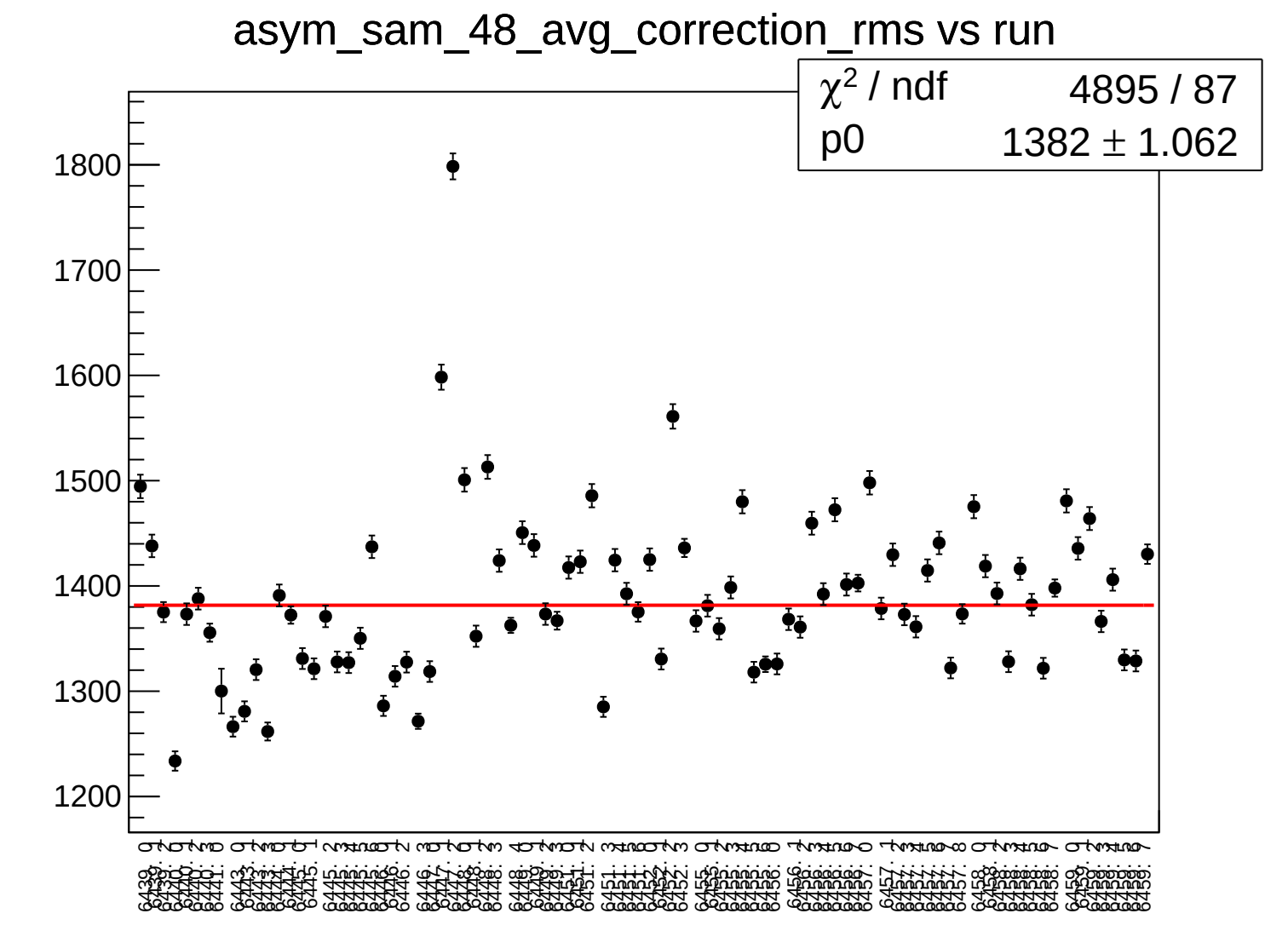

dit_asym_sam_48_avg_mean vs run
χ² / ndf 84.78 / 87
p0 15.14 ± 154.3
pull
Entries 88
Mean 73.71
Std Dev 49.2

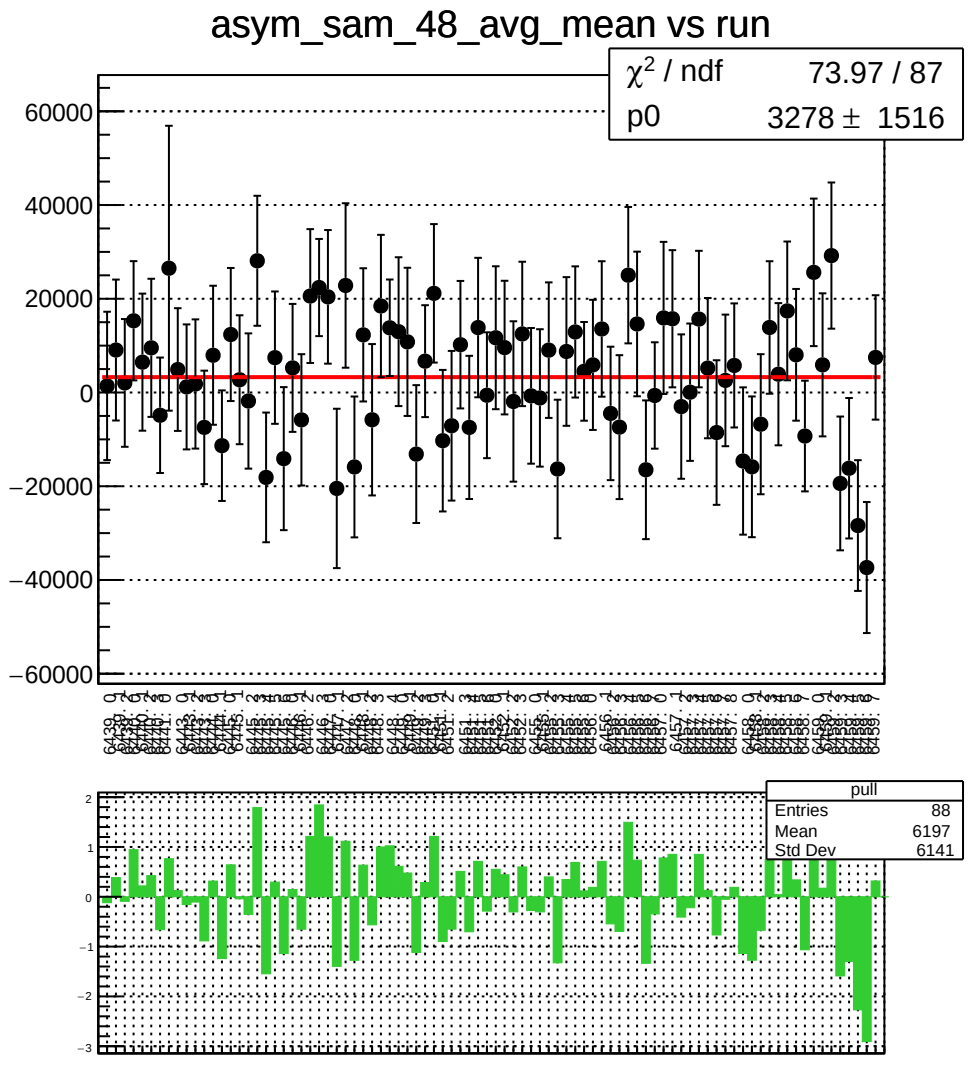

pull1D
Entries 88
Mean 0.01314
Std Dev 0.9814

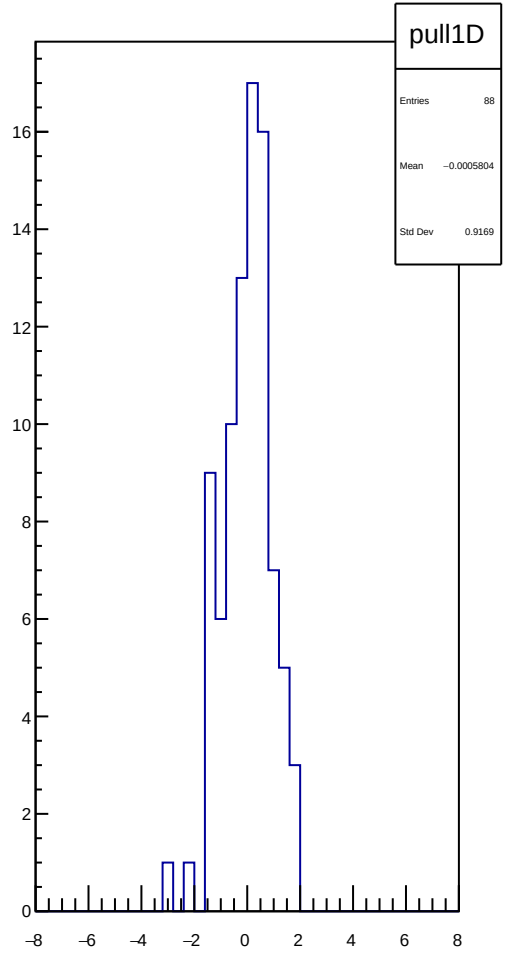

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 2.672e+04 / 87
p0 141 ± 0.1091
600
500
400
300
200
100

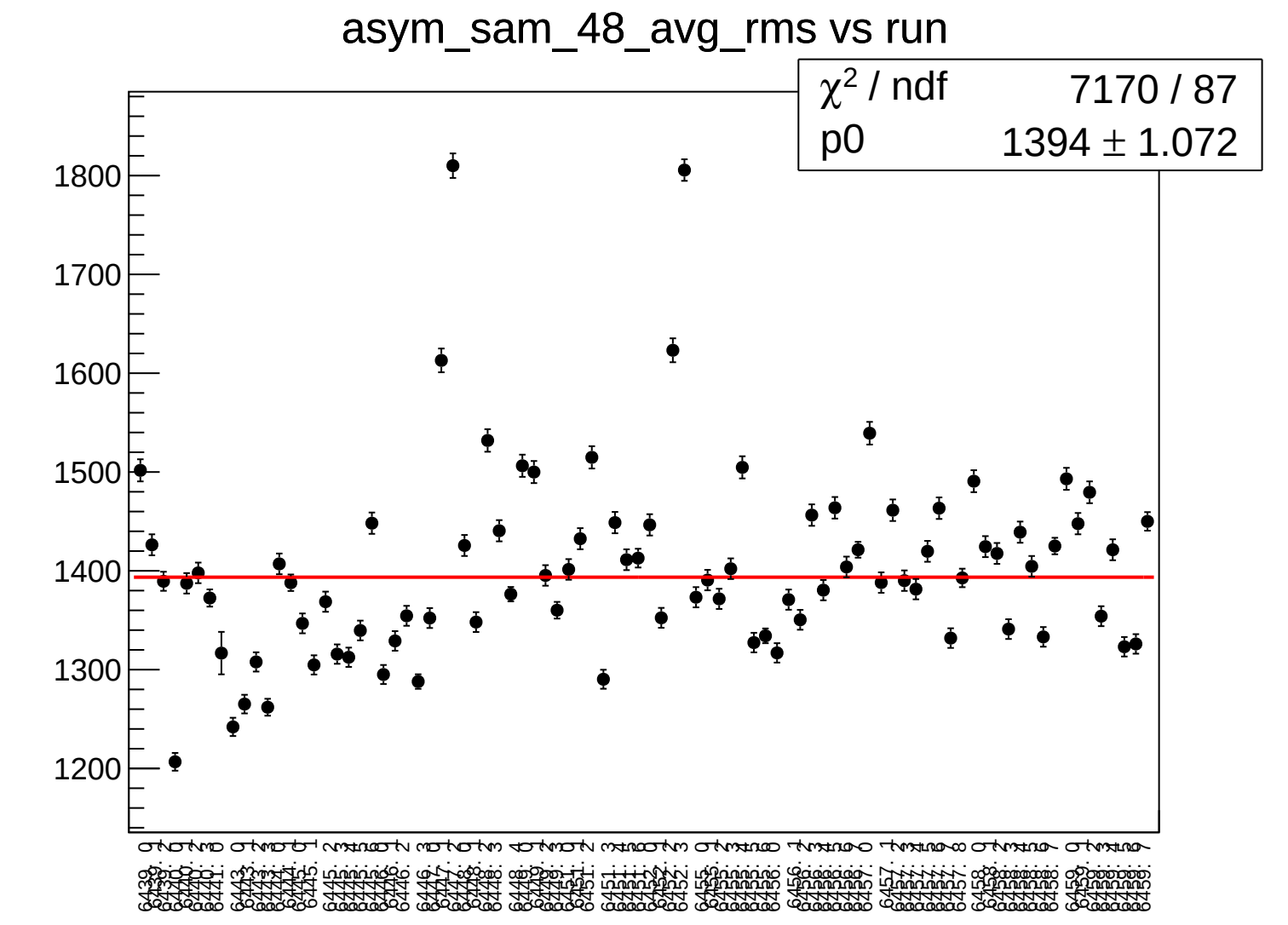

asym_sam_48_avg_correction_mean vs run
χ² / ndf 73.74 / 87
p0 −3277 ± 1502
pull
Entries 88
Mean 1235
Std Dev 1180

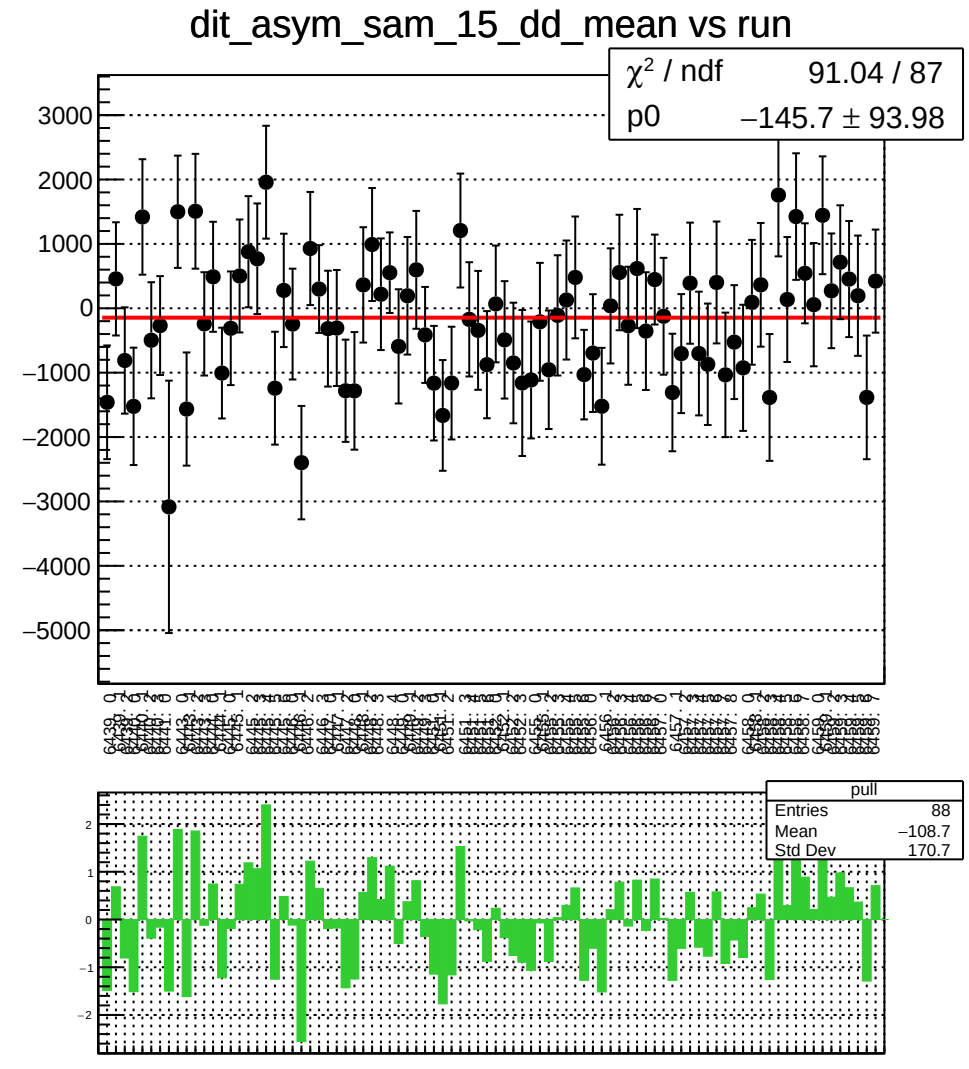

pull1D
Entries 88
Mean 0.003036
Std Dev 0.9154

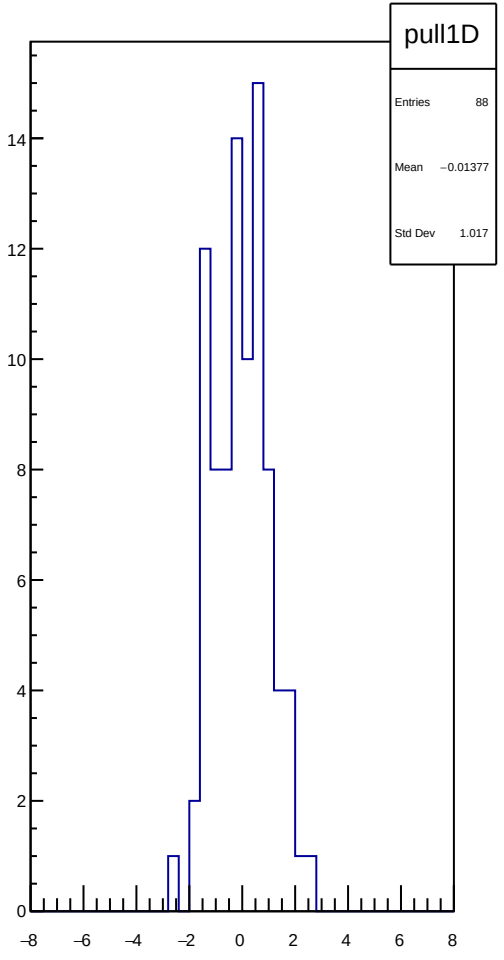

asym_sam_48_avg_correction_rms vs run
χ^2 / ndf 4895 / 87
p0 1382 ± 1.062
1800
1700
1600
1500
1400
1300
1200

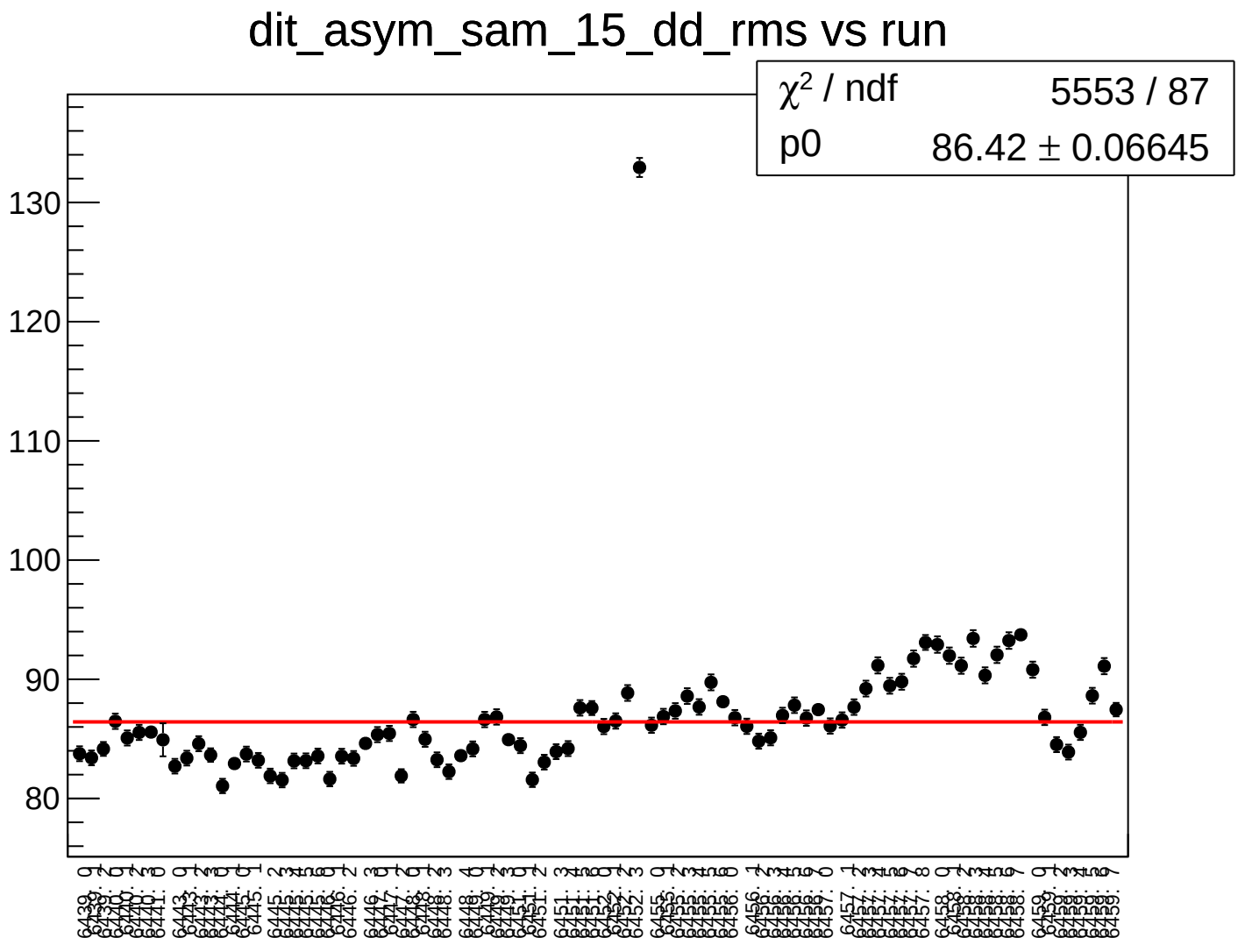

asym_sam_48_avg_mean vs run
χ² / ndf 73.97 / 87
p0 3278 ± 1516
pull
Entries 88
Mean 6197
Std Dev 6141

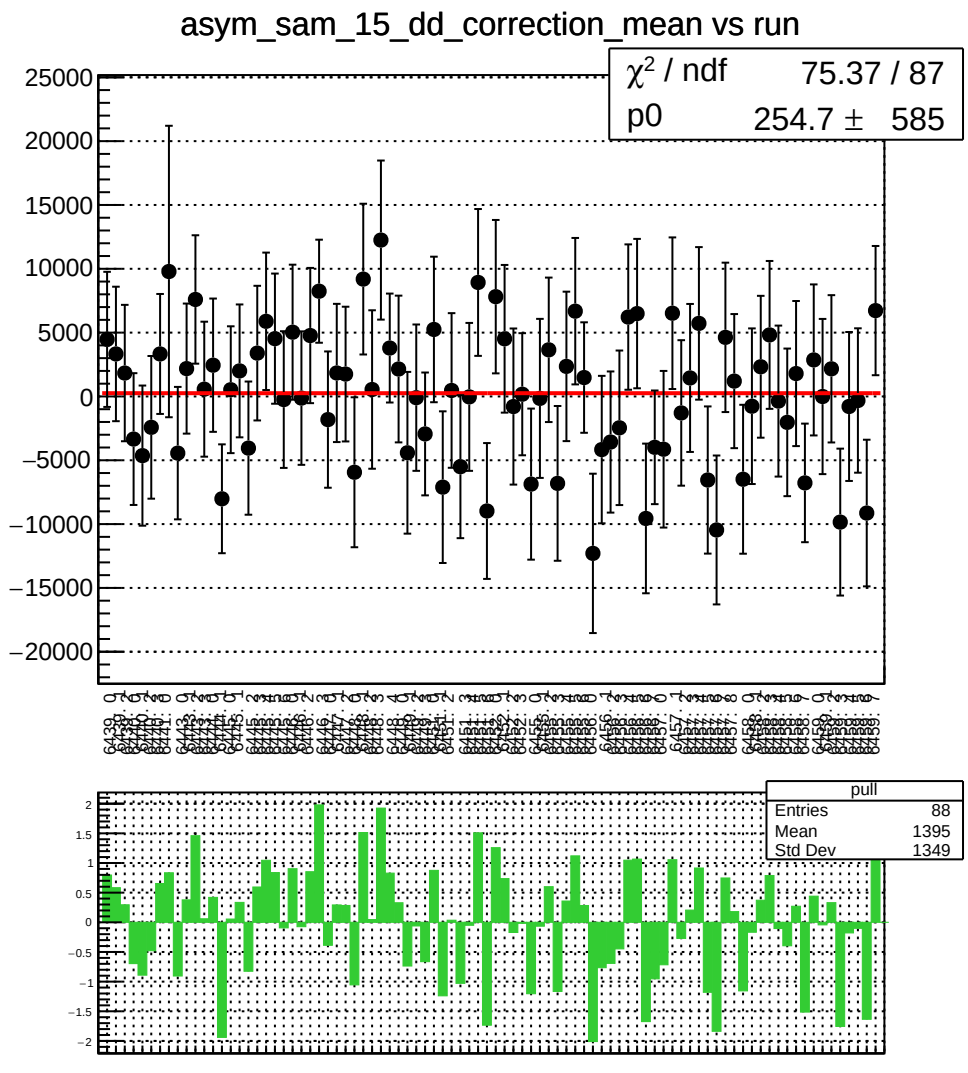

pull1D
Entries 88
Mean −0.0005804
Std Dev 0.9169

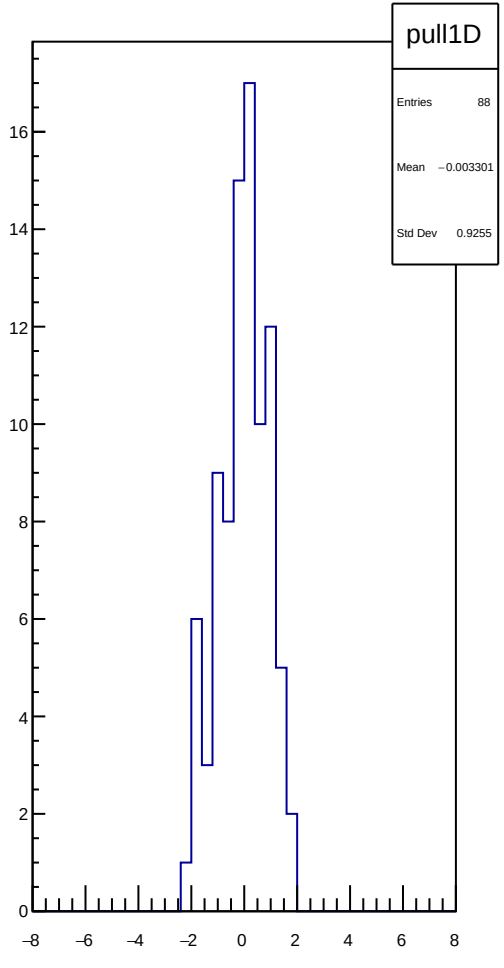

asym_sam_48_avg_rms vs run
χ^2 / ndf 7170 / 87
p0 1394 ± 1.072
1800
1700
1600
1500
1400
1300
1200

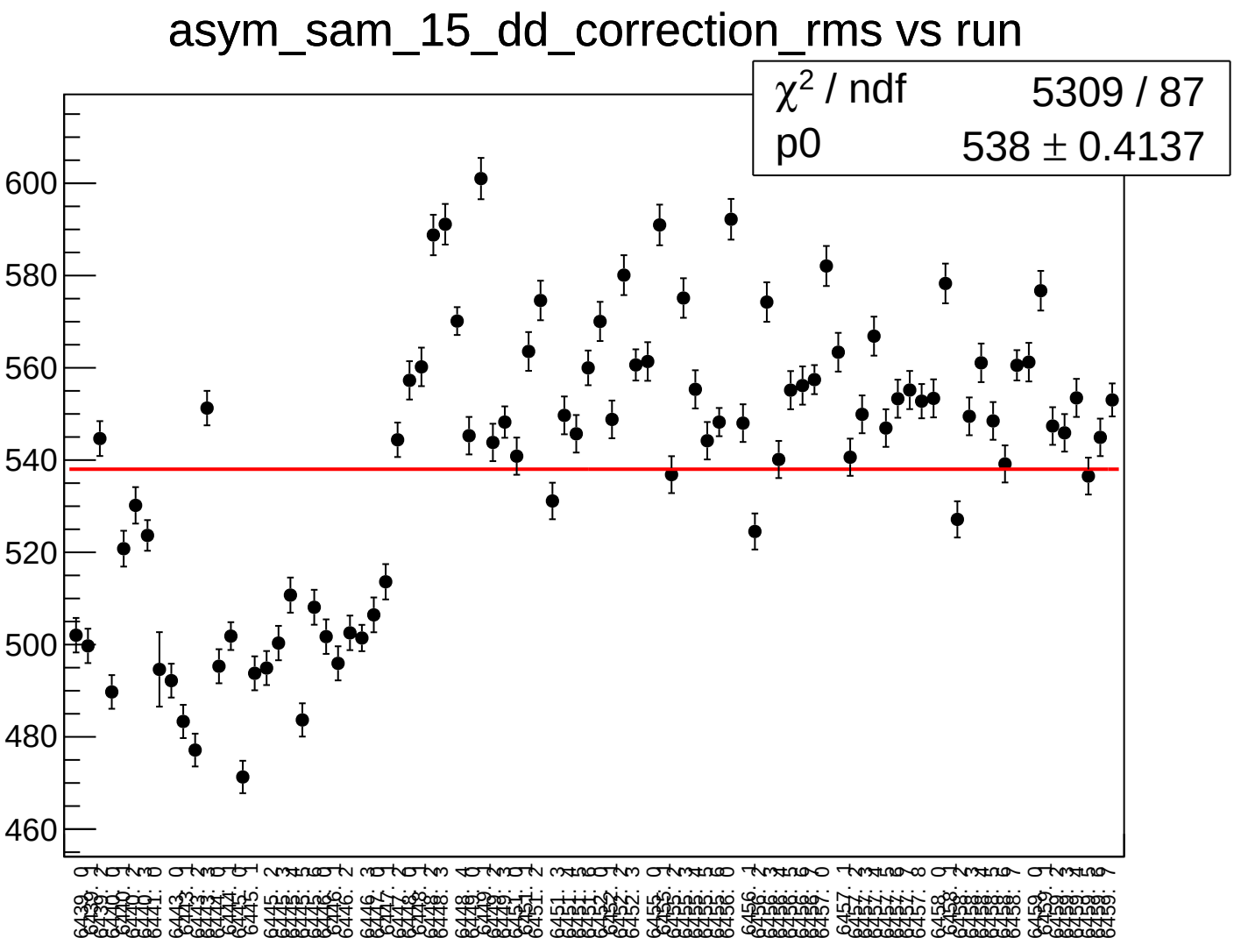

dit_asym_sam_15_dd_mean vs run
χ² / ndf 91.04 / 87
p0 −145.7 ± 93.98
pull
Entries 88
Mean −108.7
Std Dev 170.7

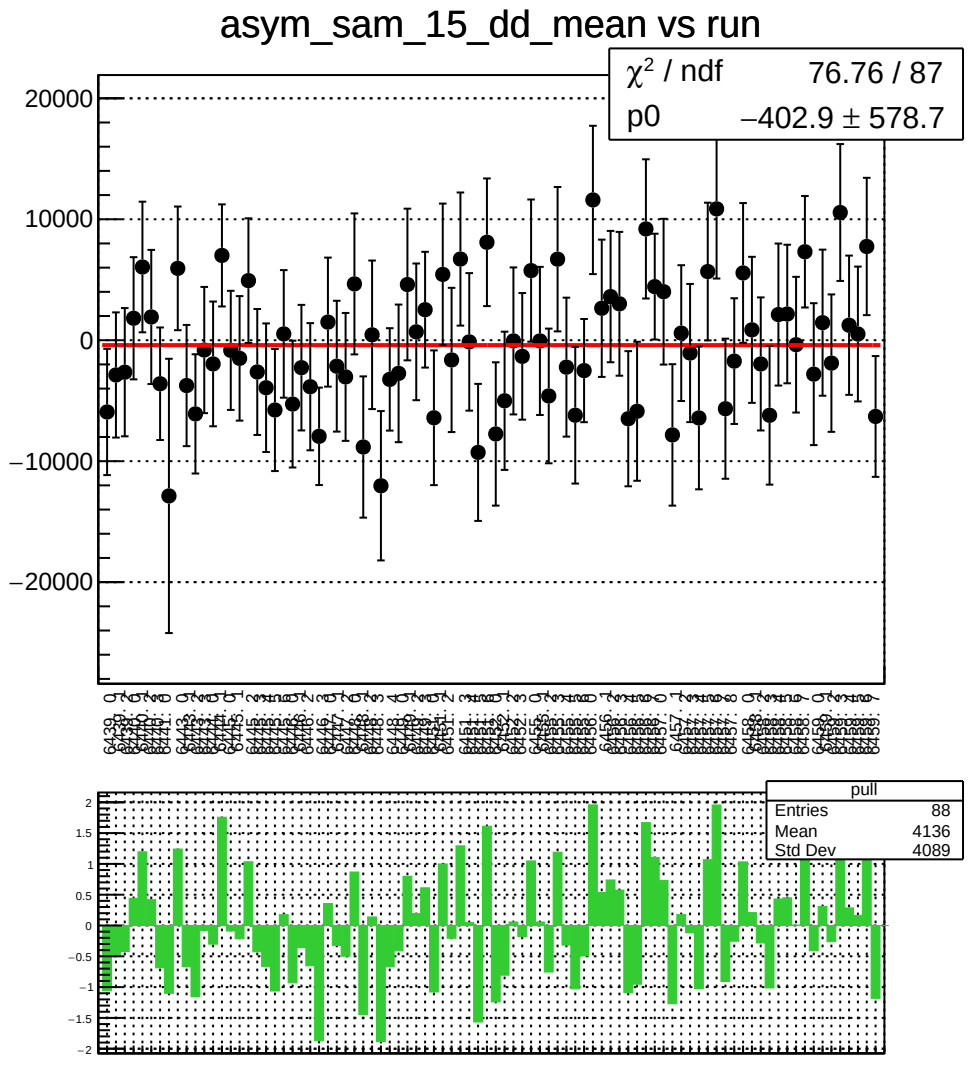

pull1D
Entries 88
Mean −0.01377
Std Dev 1.017

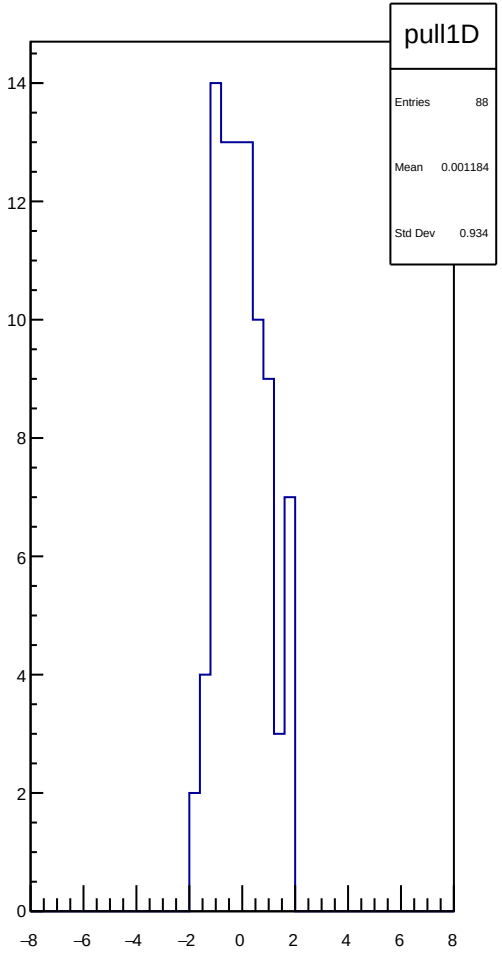

dit_asym_sam_15_dd_rms vs run
χ² / ndf 5553 / 87
p0 86.42 ± 0.06645
130
120
110
100
90
80

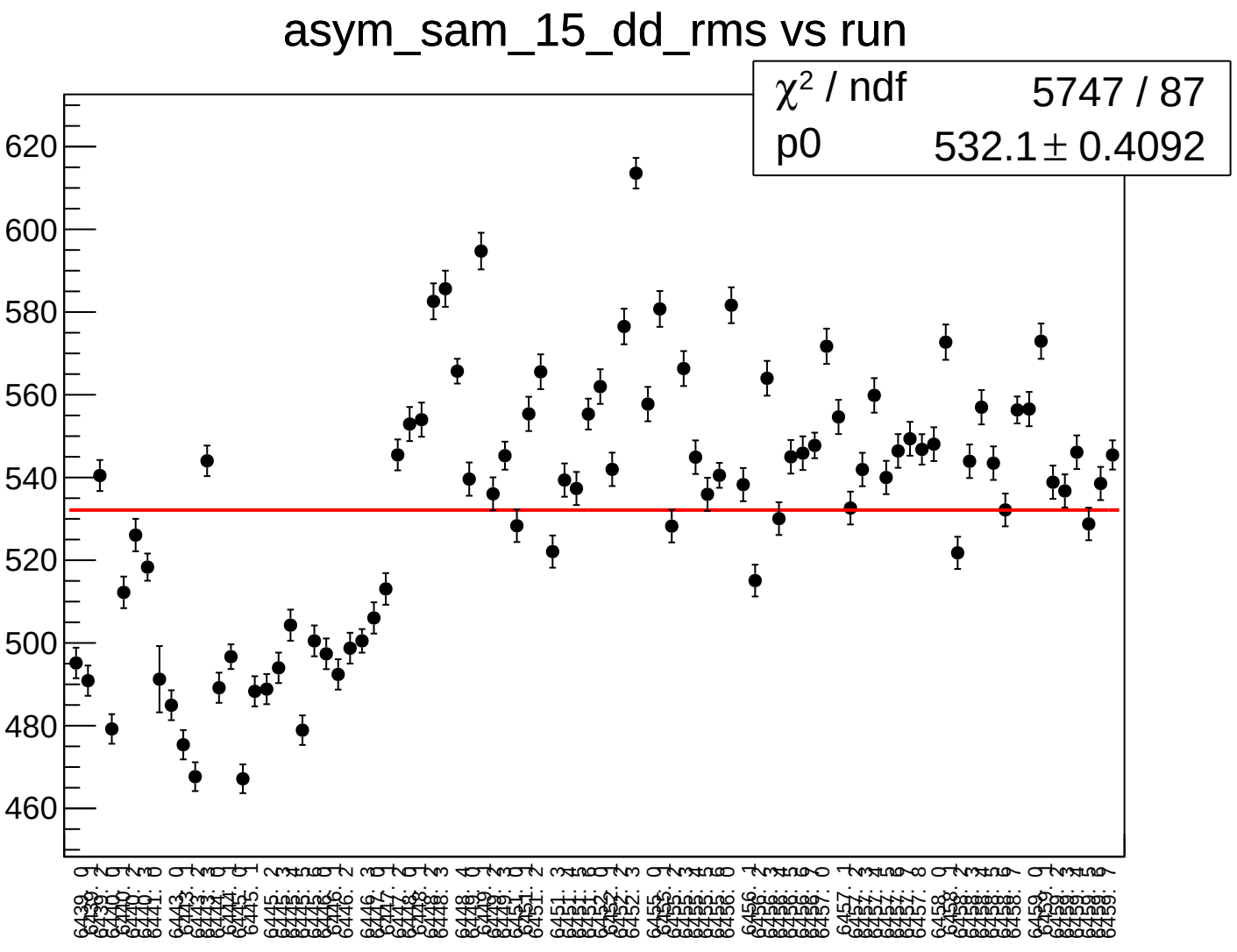

asym_sam_15_dd_correction_mean vs run
χ² / ndf 75.37 / 87
p0 254.7 ± 585
pull
Entries 88
Mean 1395
Std Dev 1349

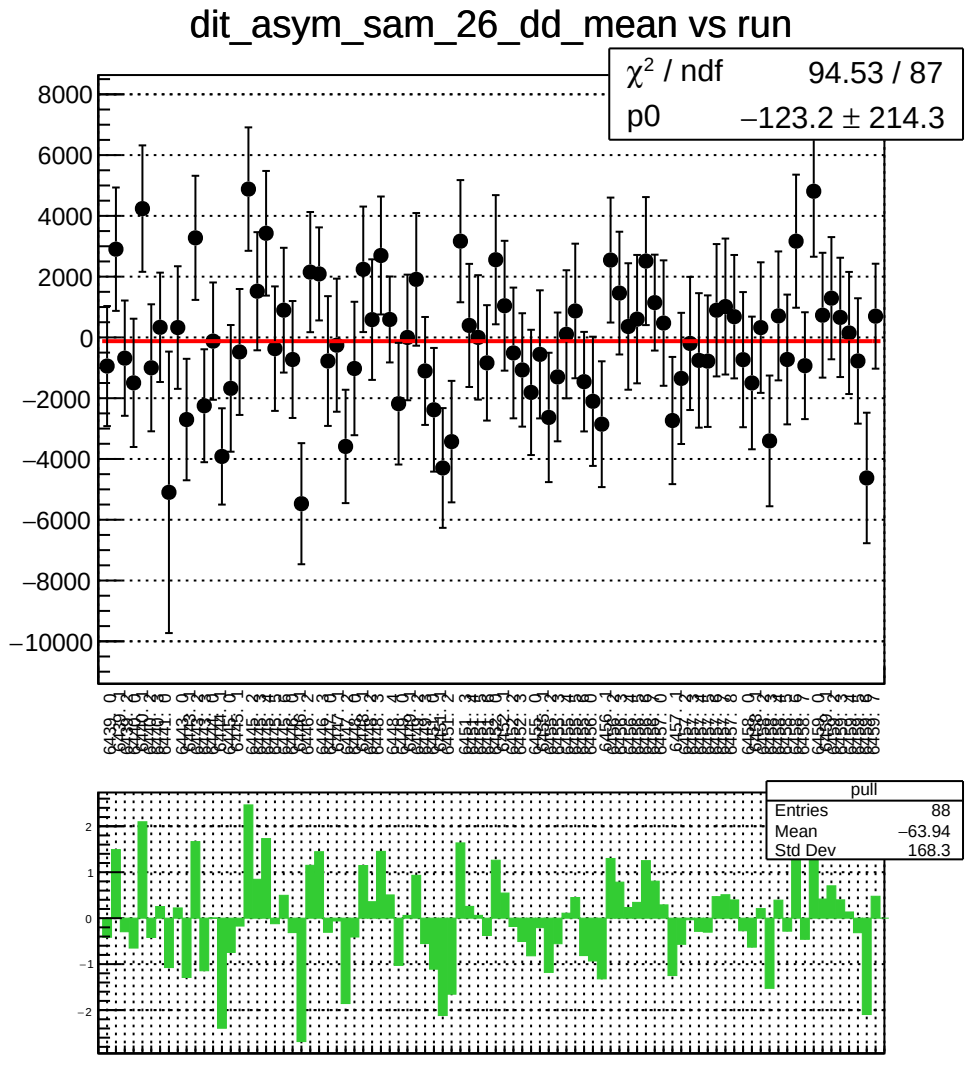

pull1D
Entries 88
Mean −0.003301
Std Dev 0.9255

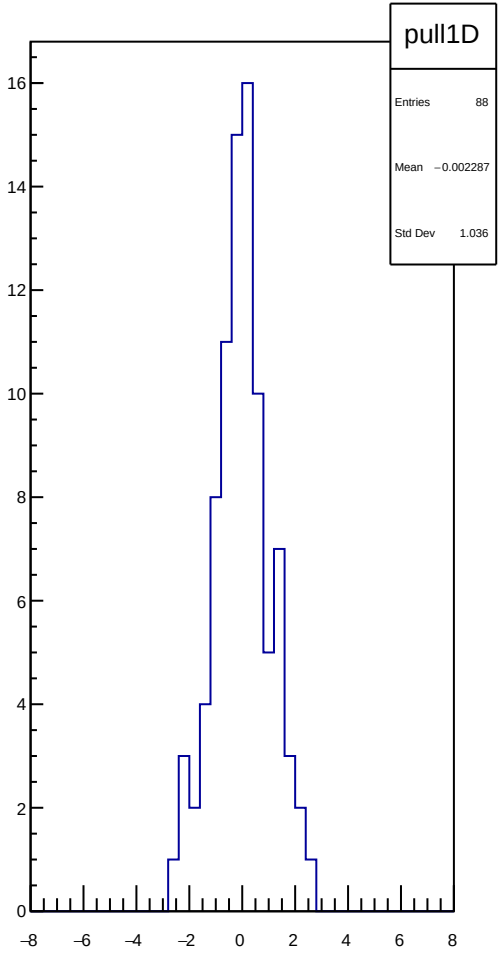

asym_sam_15_dd_correction_rms vs run
χ² / ndf 5309 / 87
p0 538 ± 0.4137
600
580
560
540
520
500
480
460

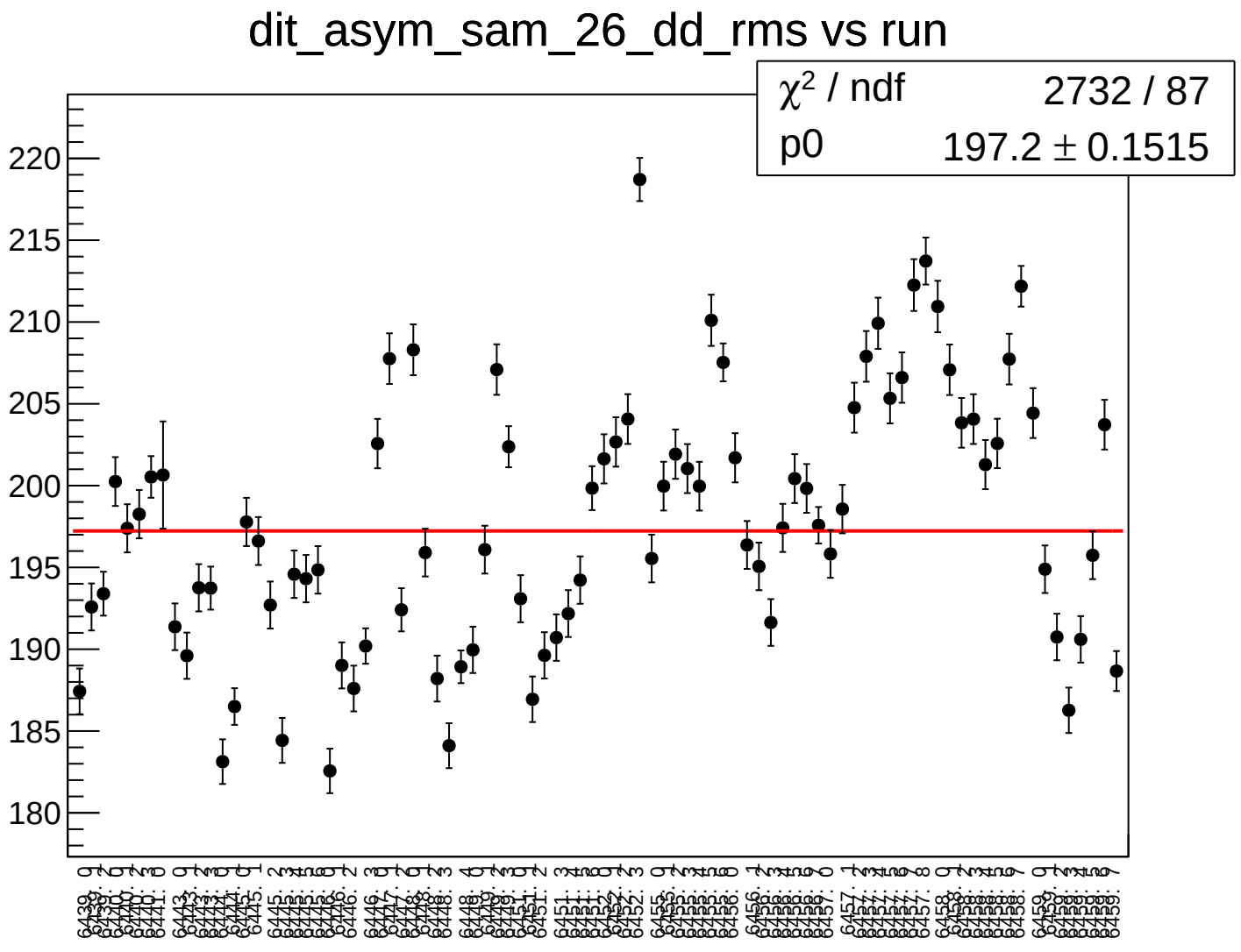

asym_sam_15_dd_mean vs run
χ² / ndf 76.76 / 87
p0 −402.9 ± 578.7
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 4136
Std Dev 4089
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

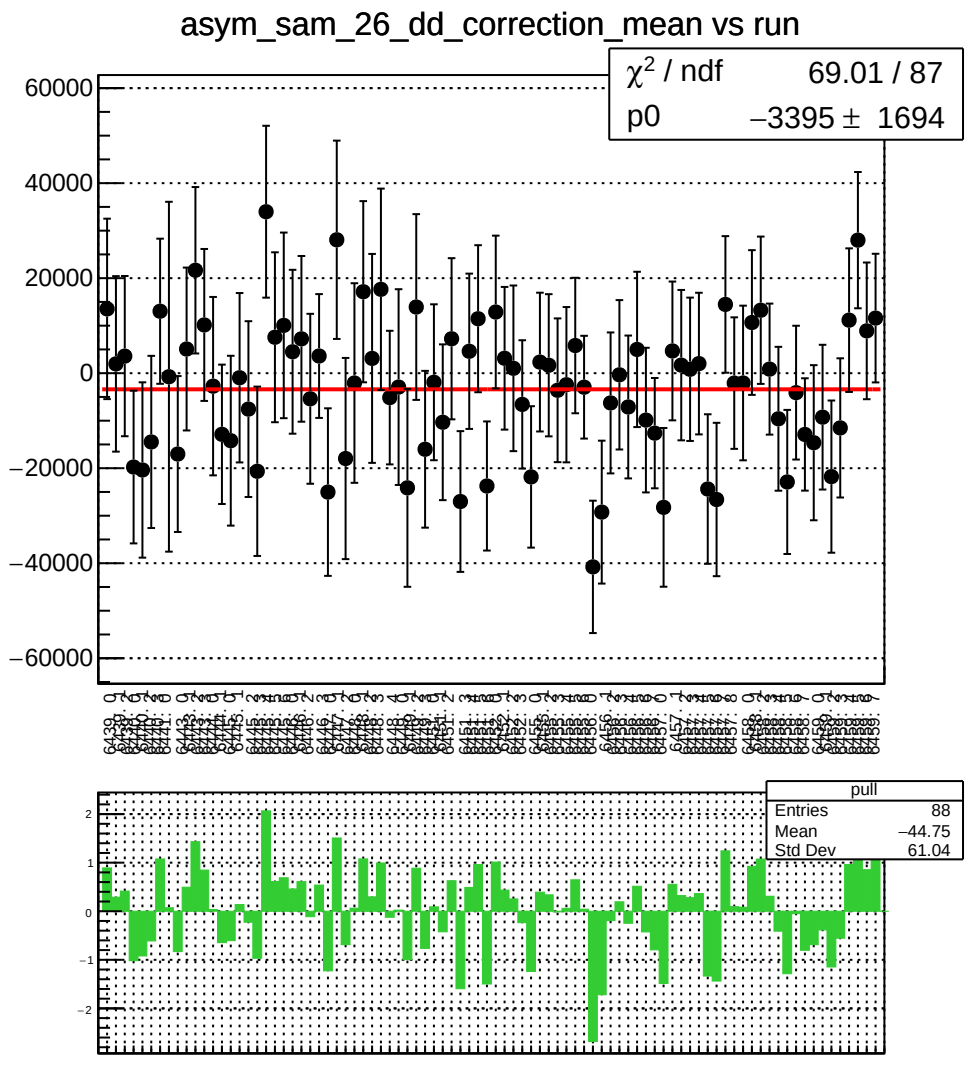

pull1D
Entries 88
Mean 0.001184
Std Dev 0.934
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

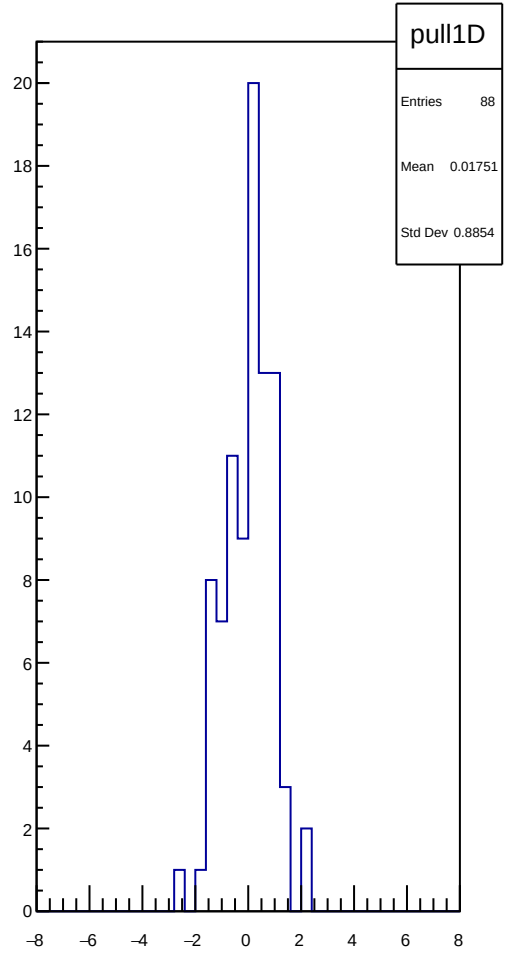

asym_sam_15_dd_rms vs run
χ² / ndf 5747 / 87
p0 532.1 ± 0.4092
620
600
580
560
540
520
500
480
460

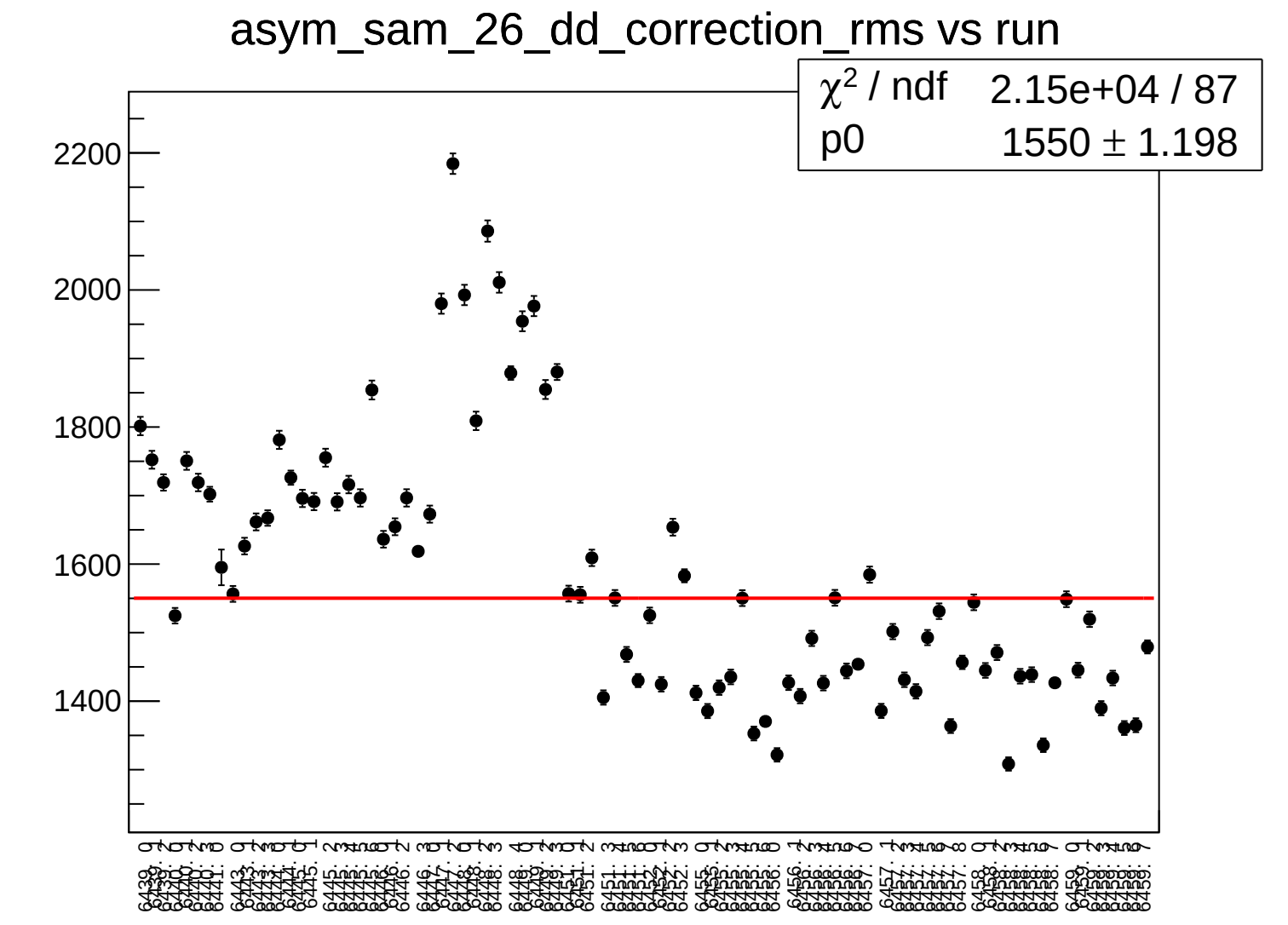

dit_asym_sam_26_dd_mean vs run
χ² / ndf 94.53 / 87
p0 −123.2 ± 214.3
pull
Entries 88
Mean −63.94
Std Dev 168.3

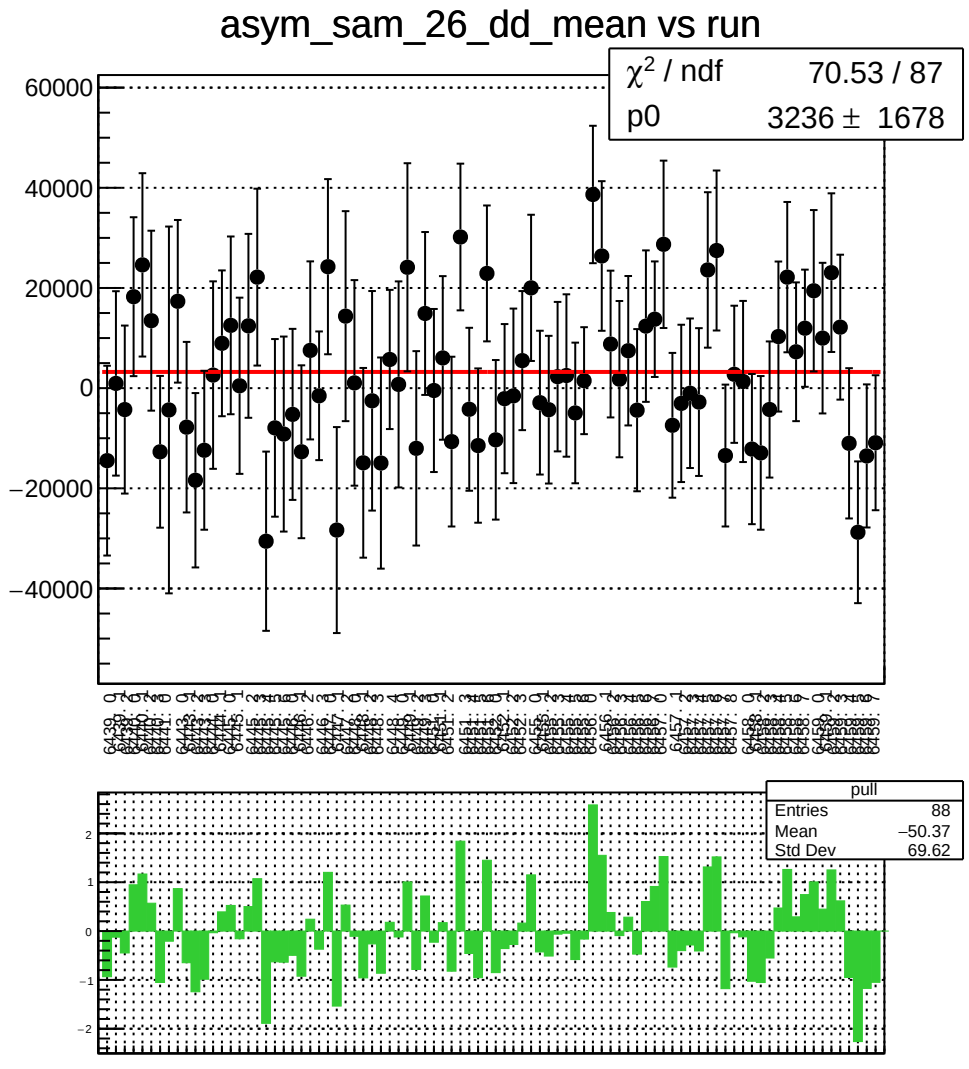

pull1D
Entries 88
Mean −0.002287
Std Dev 1.036

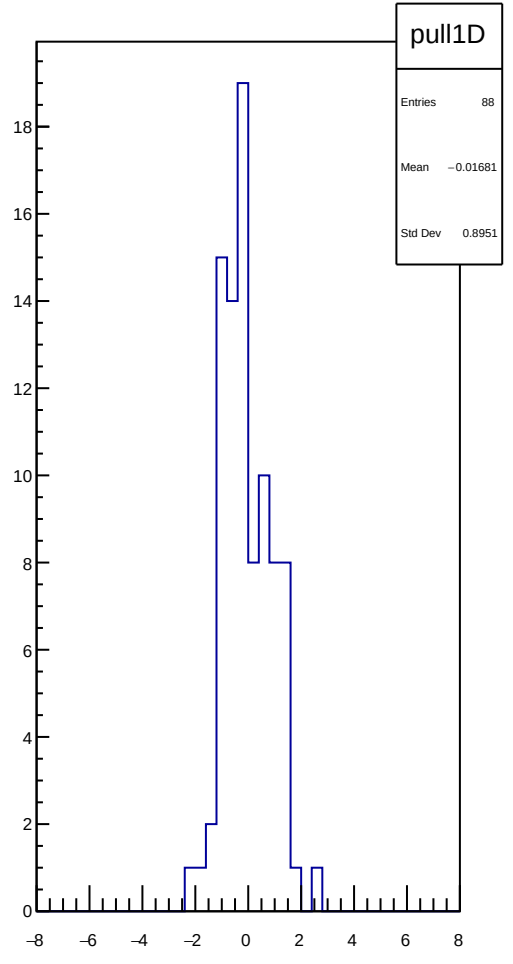

dit_asym_sam_26_dd_rms vs run
χ² / ndf 2732 / 87
p0 197.2 ± 0.1515
220
215
210
205
200
195
190
185
180

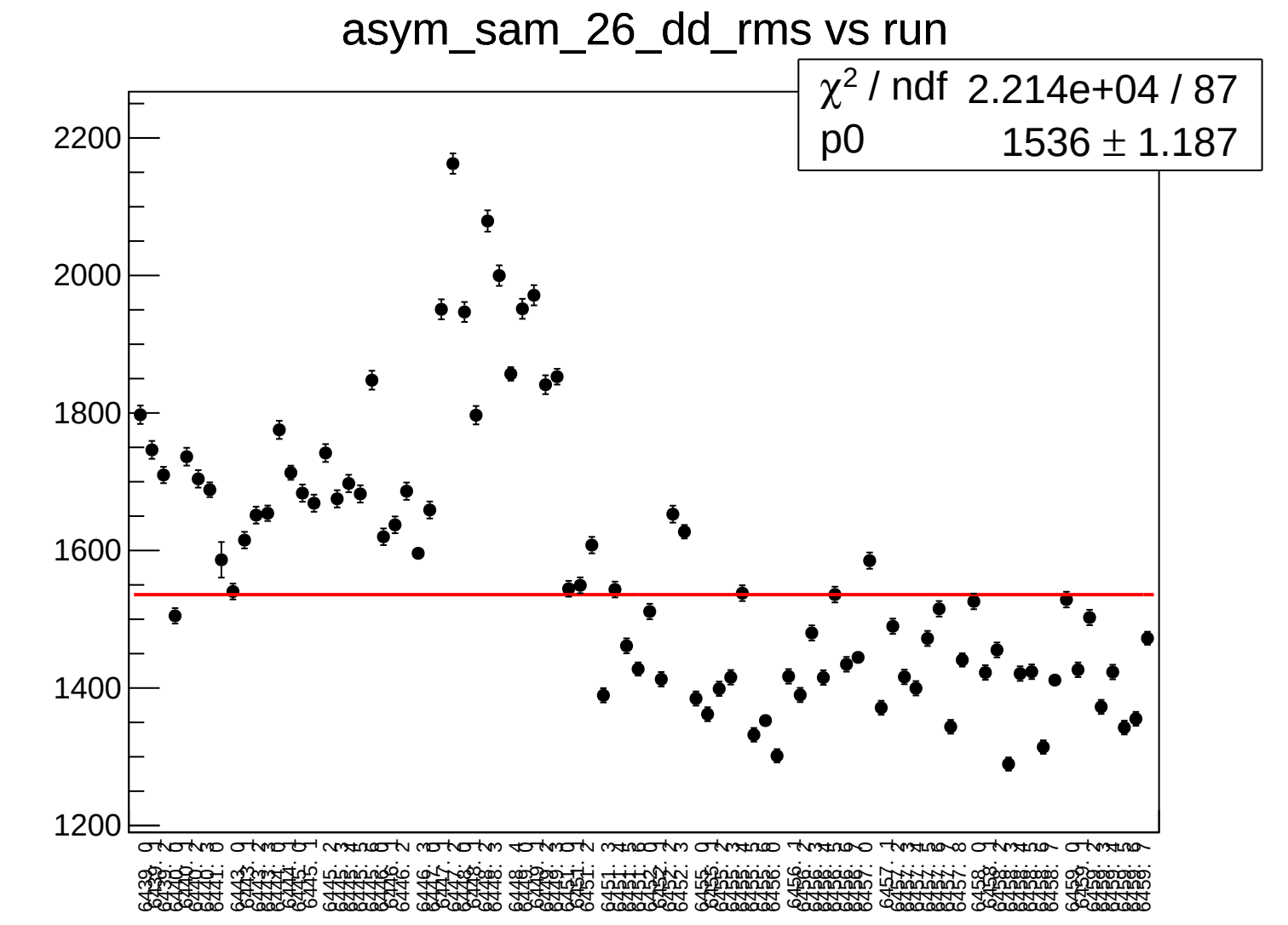

asym_sam_26_dd_correction_mean vs run
χ² / ndf 69.01 / 87
p0 −3395 ± 1694
pull
Entries 88
Mean −44.75
Std Dev 61.04

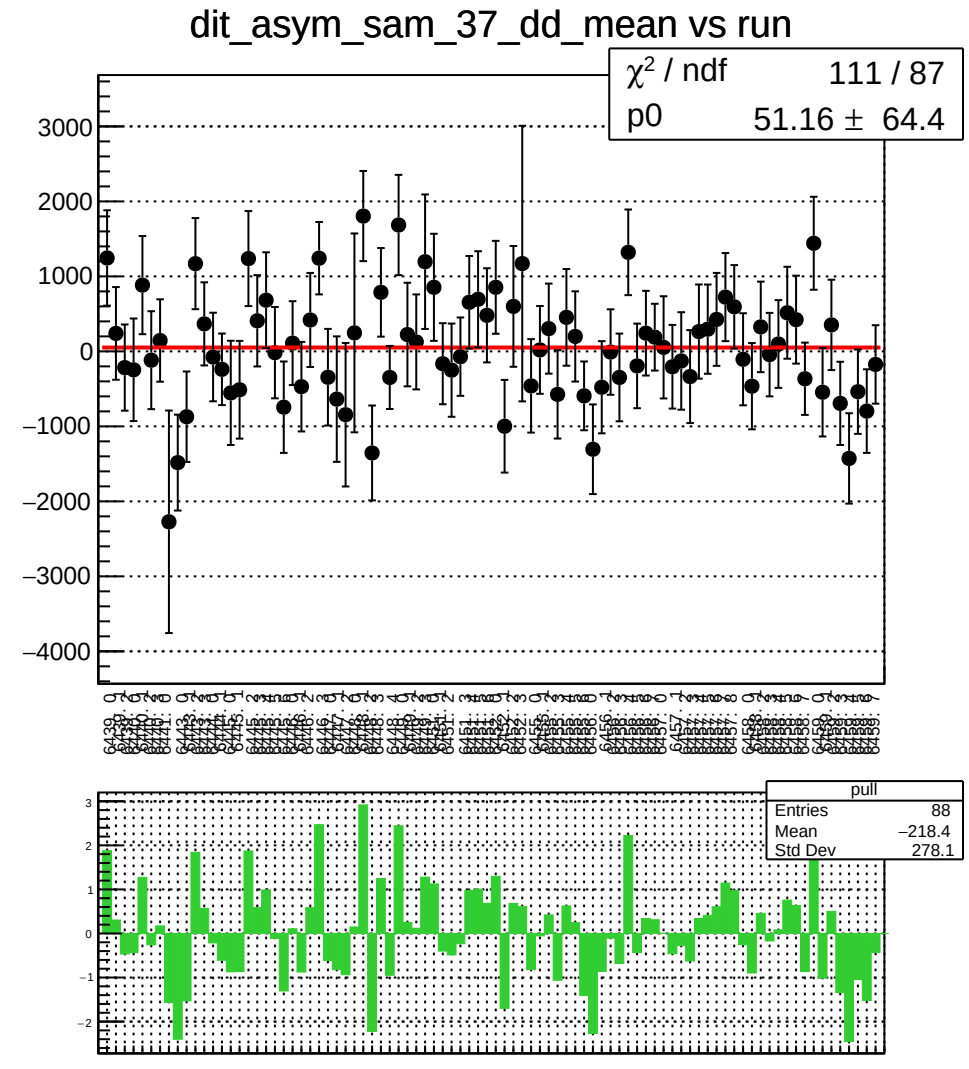

pull1D
Entries 88
Mean 0.01751
Std Dev 0.8854

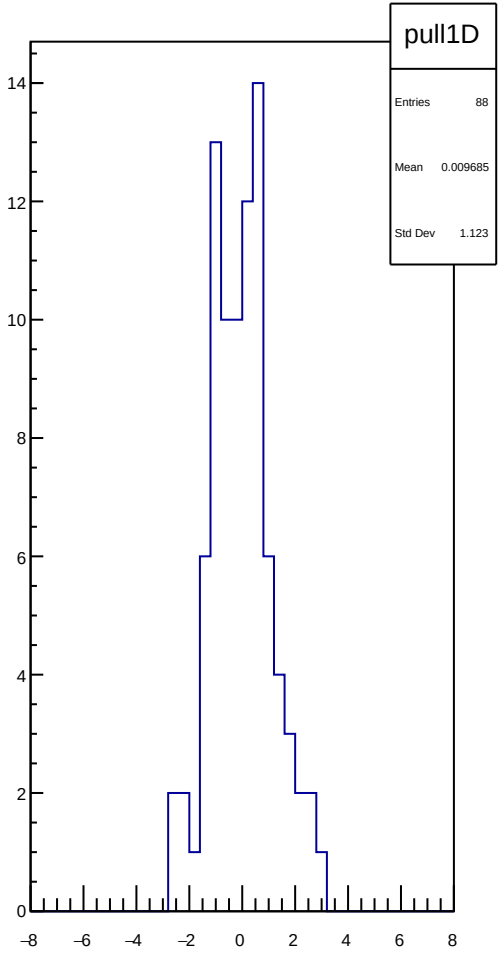

asym_sam_26_dd_correction_rms vs run
χ² / ndf 2.15e+04 / 87
p0 1550 ± 1.198
2200
2000
1800
1600
1400

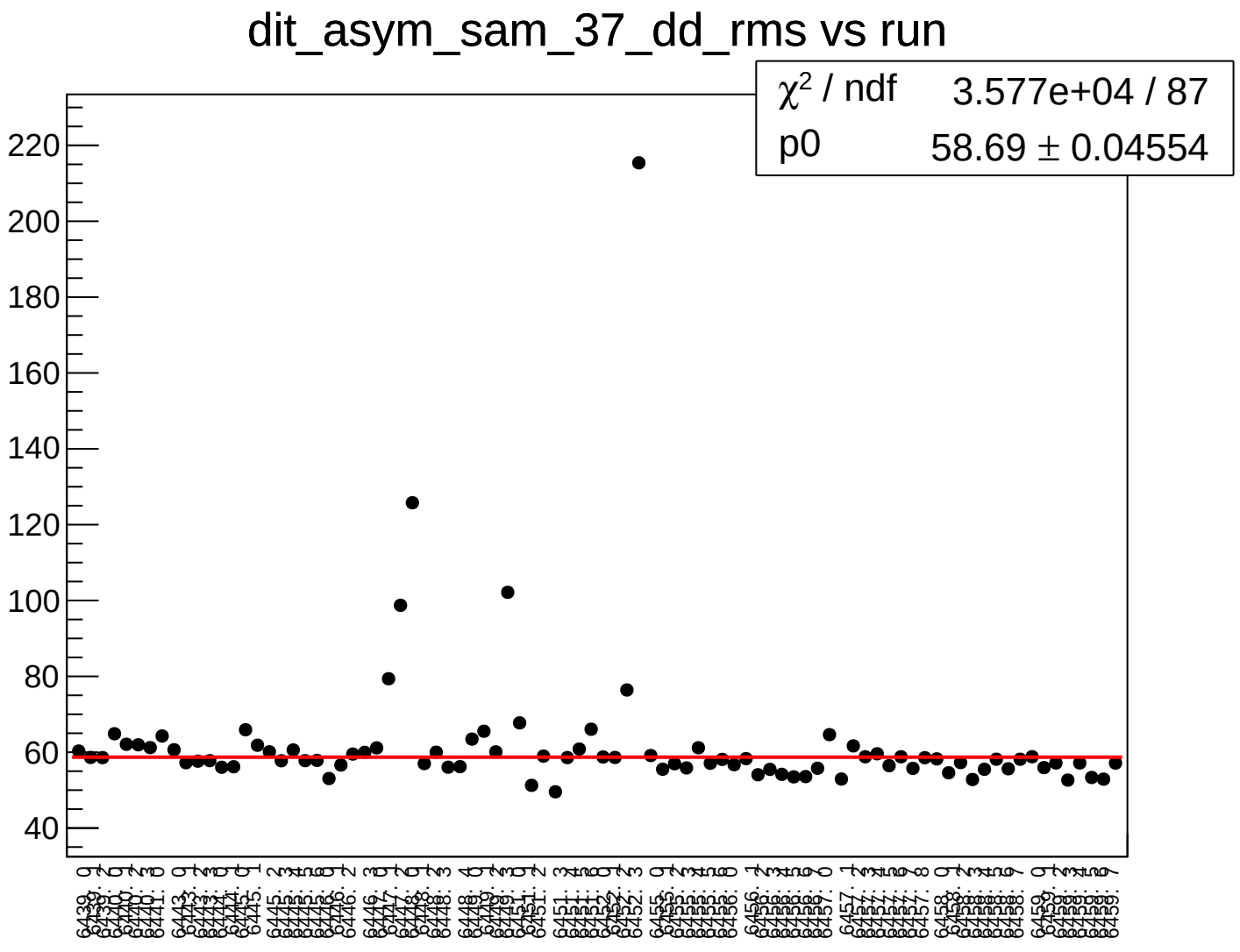

asym_sam_26_dd_mean vs run
χ² / ndf 70.53 / 87
p0 3236 ± 1678
pull
Entries 88
Mean −50.37
Std Dev 69.62

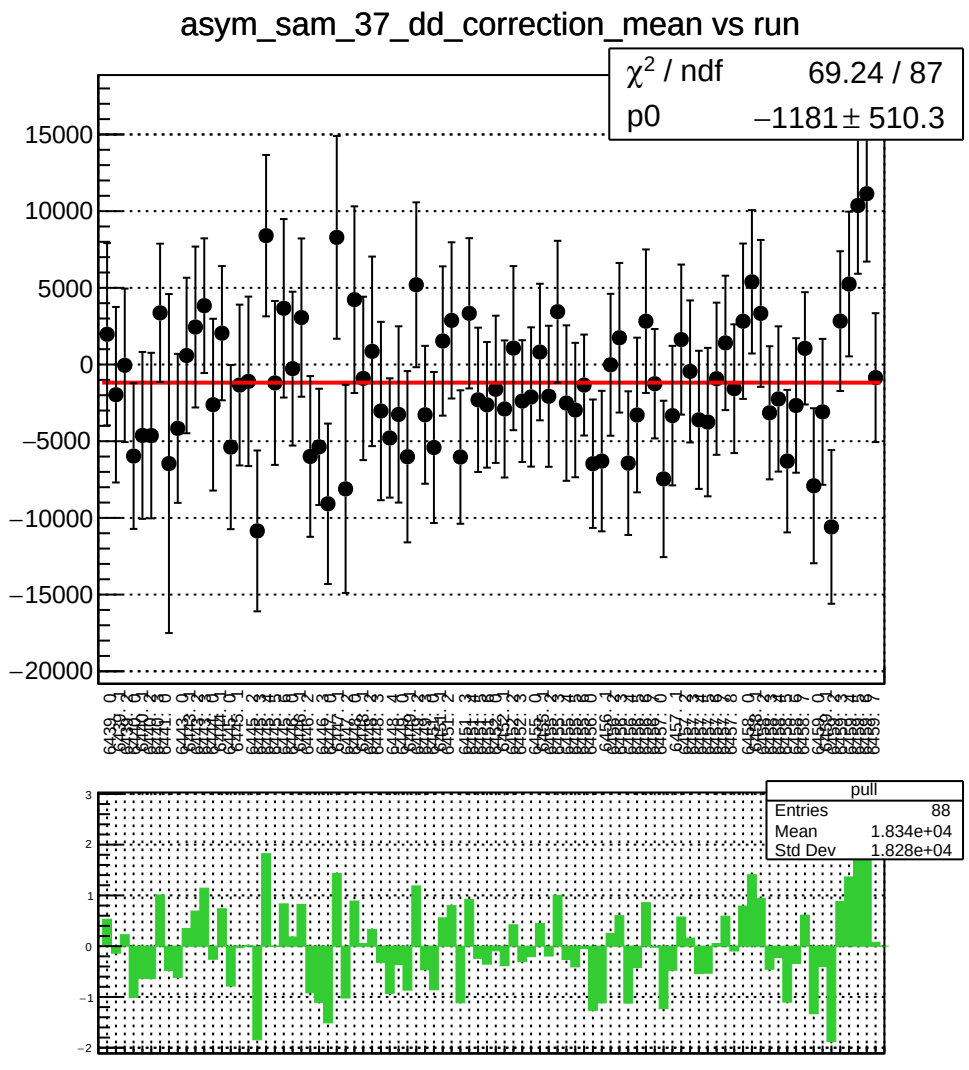

pull1D
Entries 88
Mean −0.01681
Std Dev 0.8951

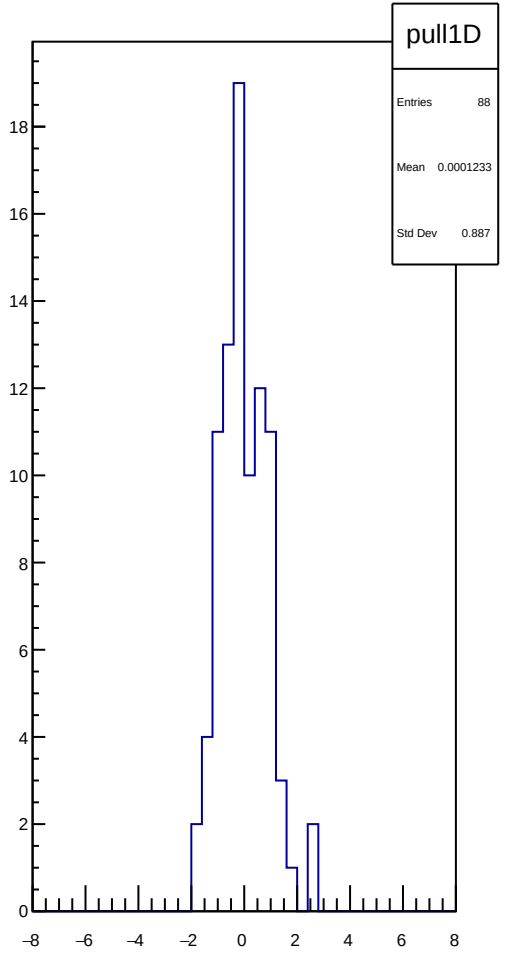

asym_sam_26_dd_rms vs run
χ² / ndf 2.214e+04 / 87
p0 1536 ± 1.187
2200
2000
1800
1600
1400
1200

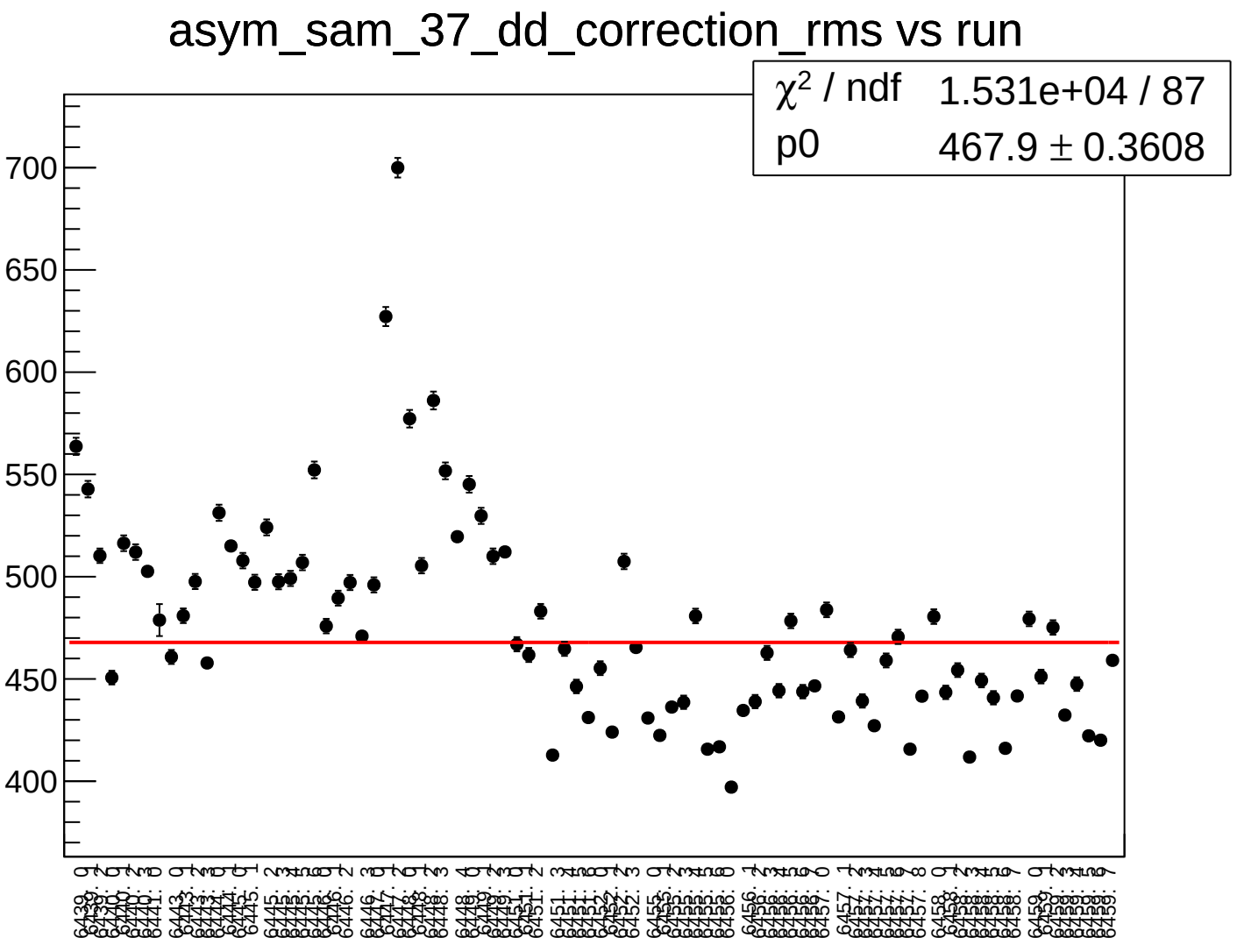

dit_asym_sam_37_dd_mean vs run
χ² / ndf 111 / 87
p0 51.16 ± 64.4
pull
Entries 88
Mean −218.4
Std Dev 278.1

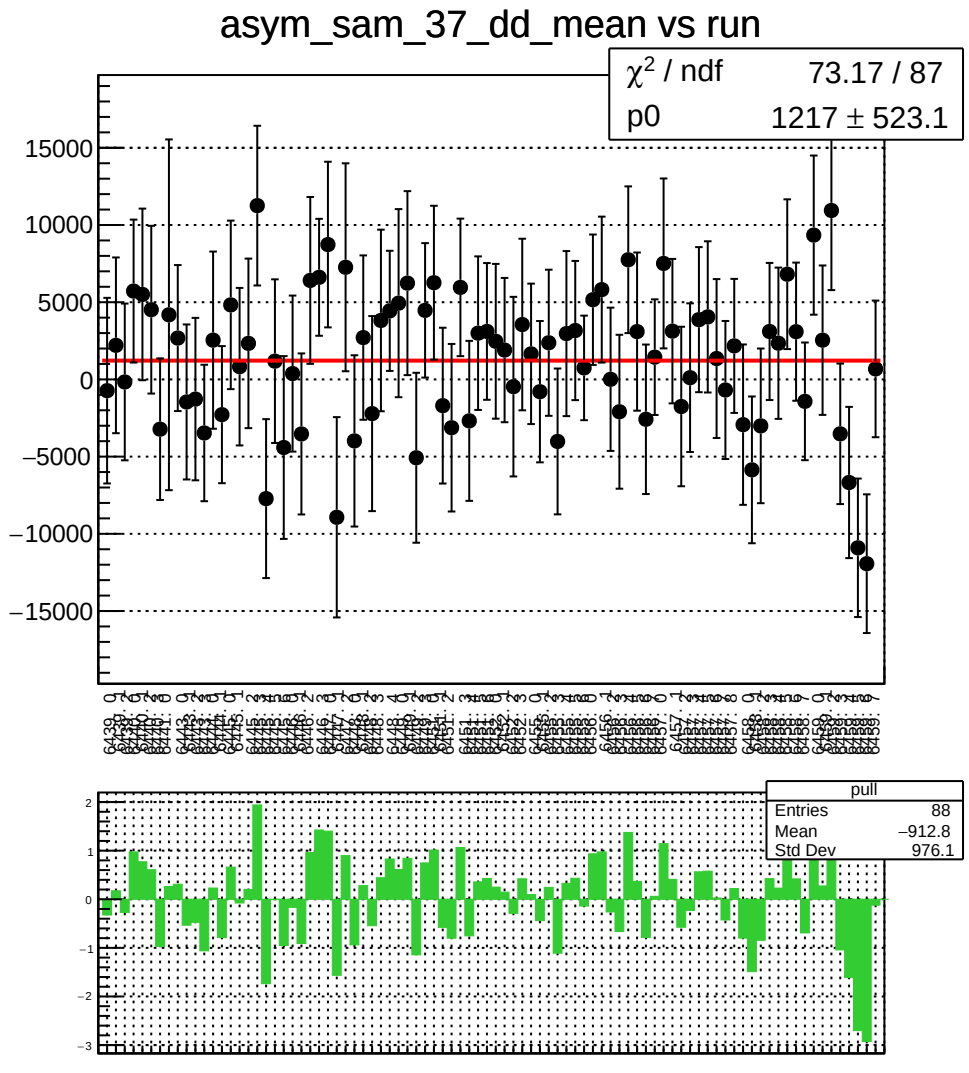

pull1D
Entries 88
Mean 0.009685
Std Dev 1.123

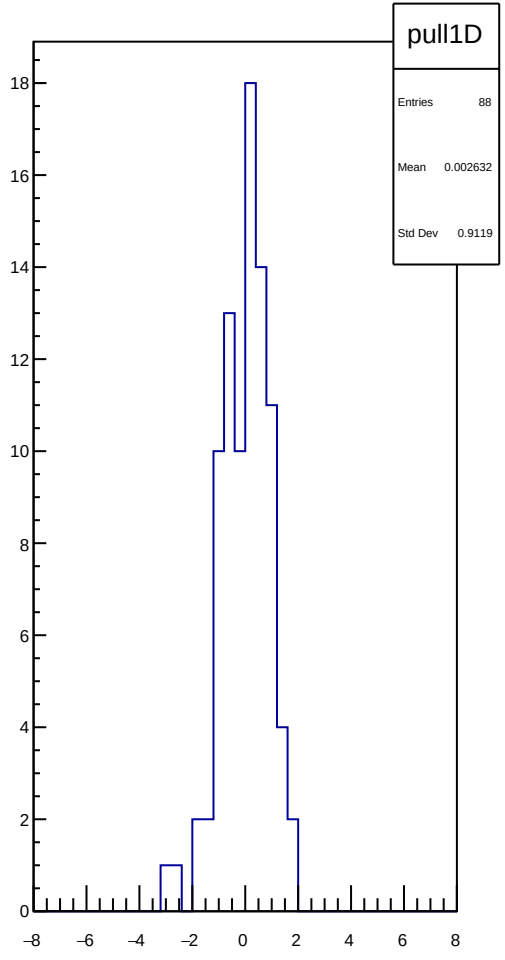

dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 3.577e+04 / 87
p0 58.69 ± 0.04554
220
200
180
160
140
120
100
80
60
40

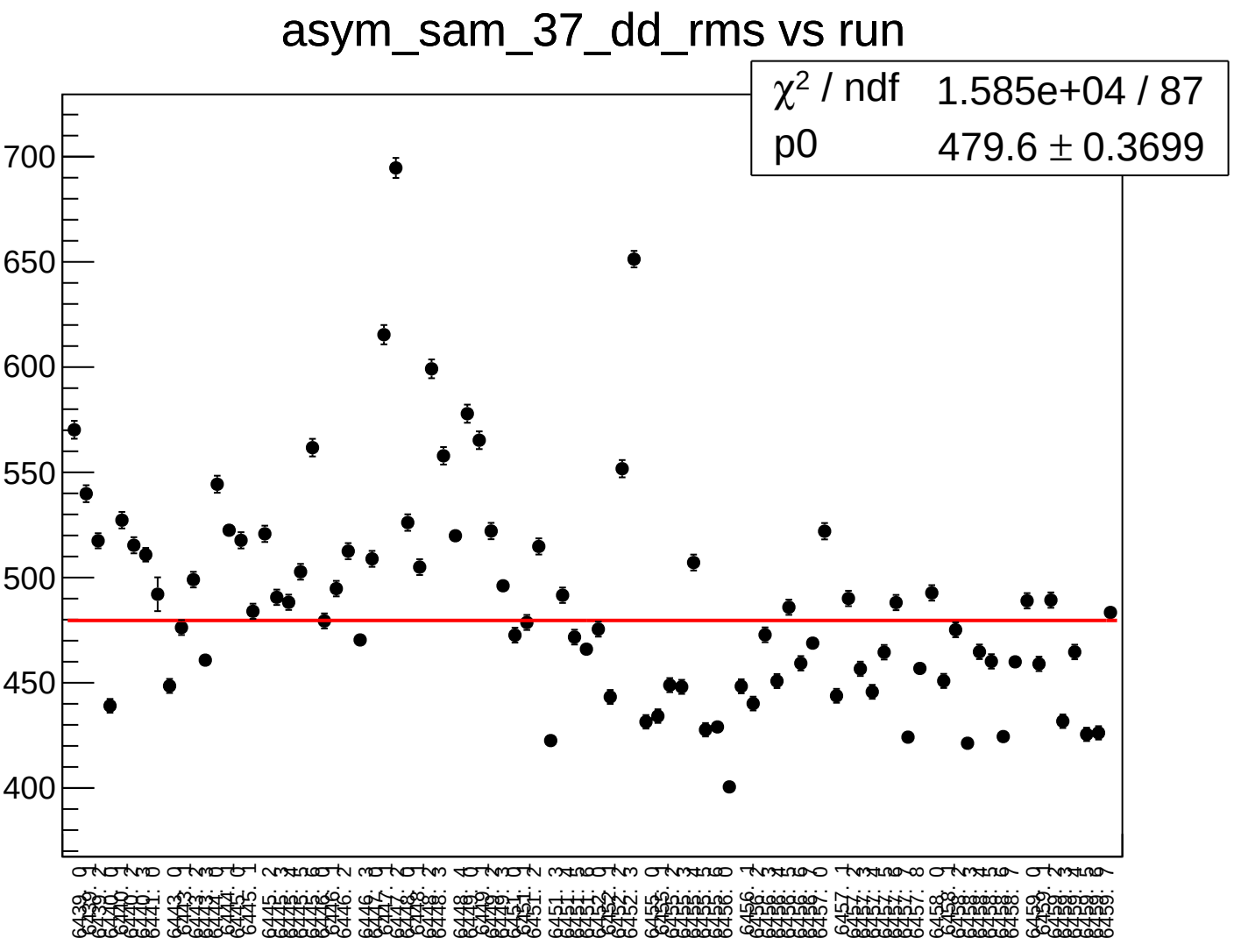

asym_sam_37_dd_correction_mean vs run
χ² / ndf 69.24 / 87
p0 −1181 ± 510.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 1.834e+04
Std Dev 1.828e+04
3
2
1
0
−1
−2

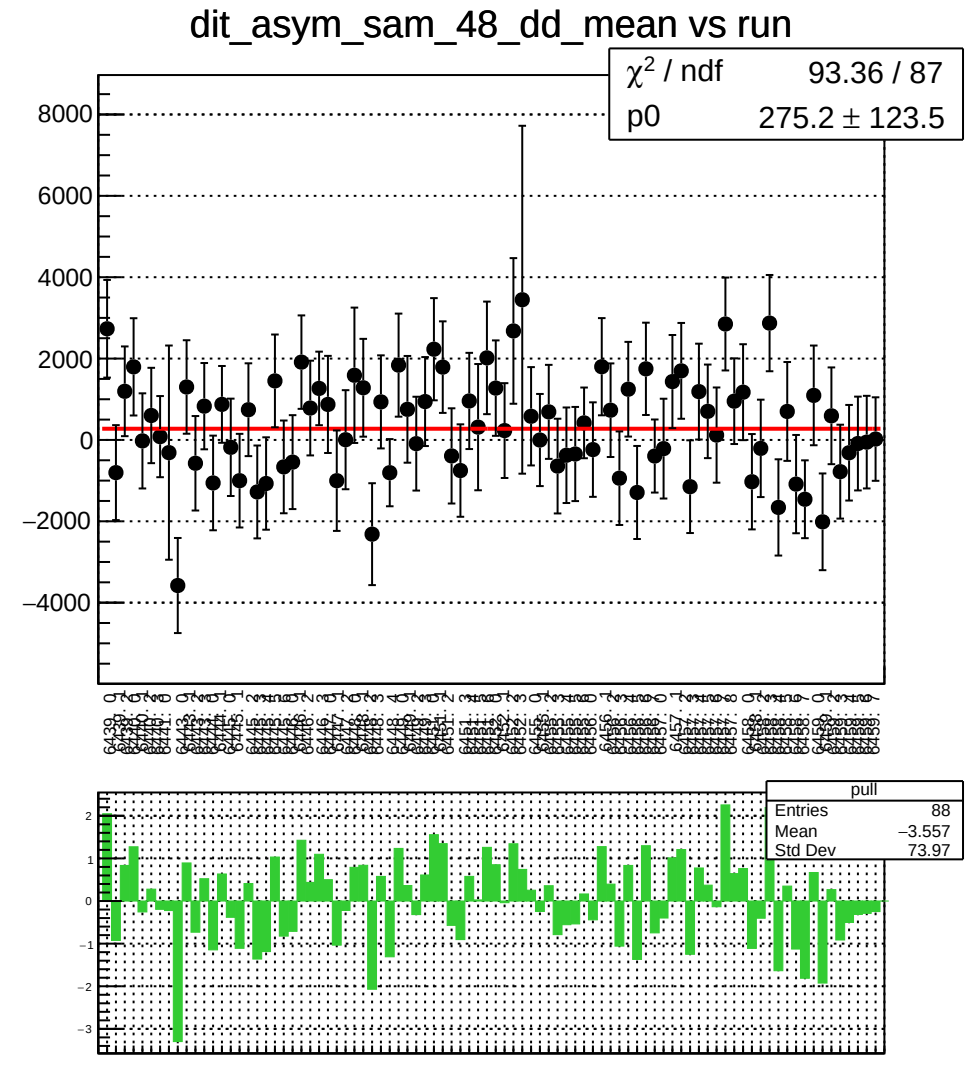

pull1D
Entries 88
Mean 0.0001233
Std Dev 0.887
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

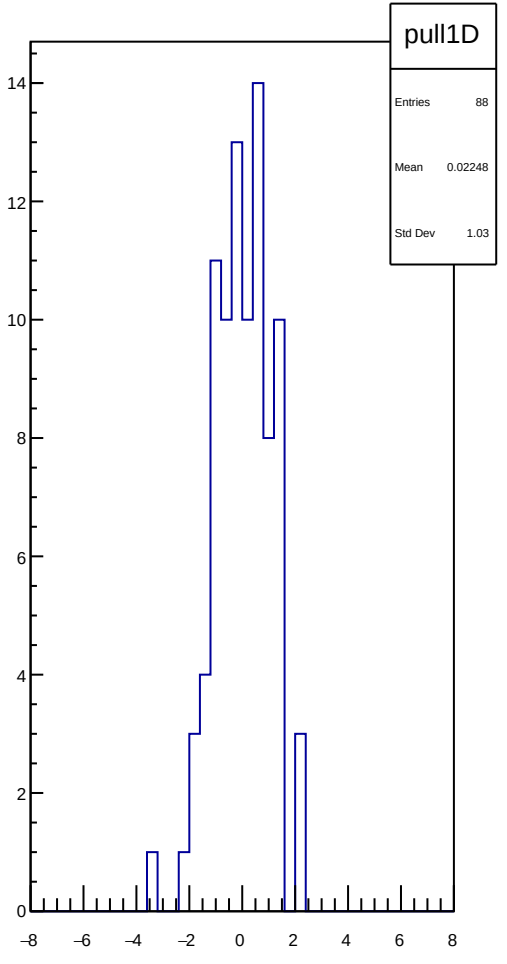

asym_sam_37_dd_correction_rms vs run
χ² / ndf 1.531e+04 / 87
p0 467.9 ± 0.3608
700
650
600
550
500
450
400

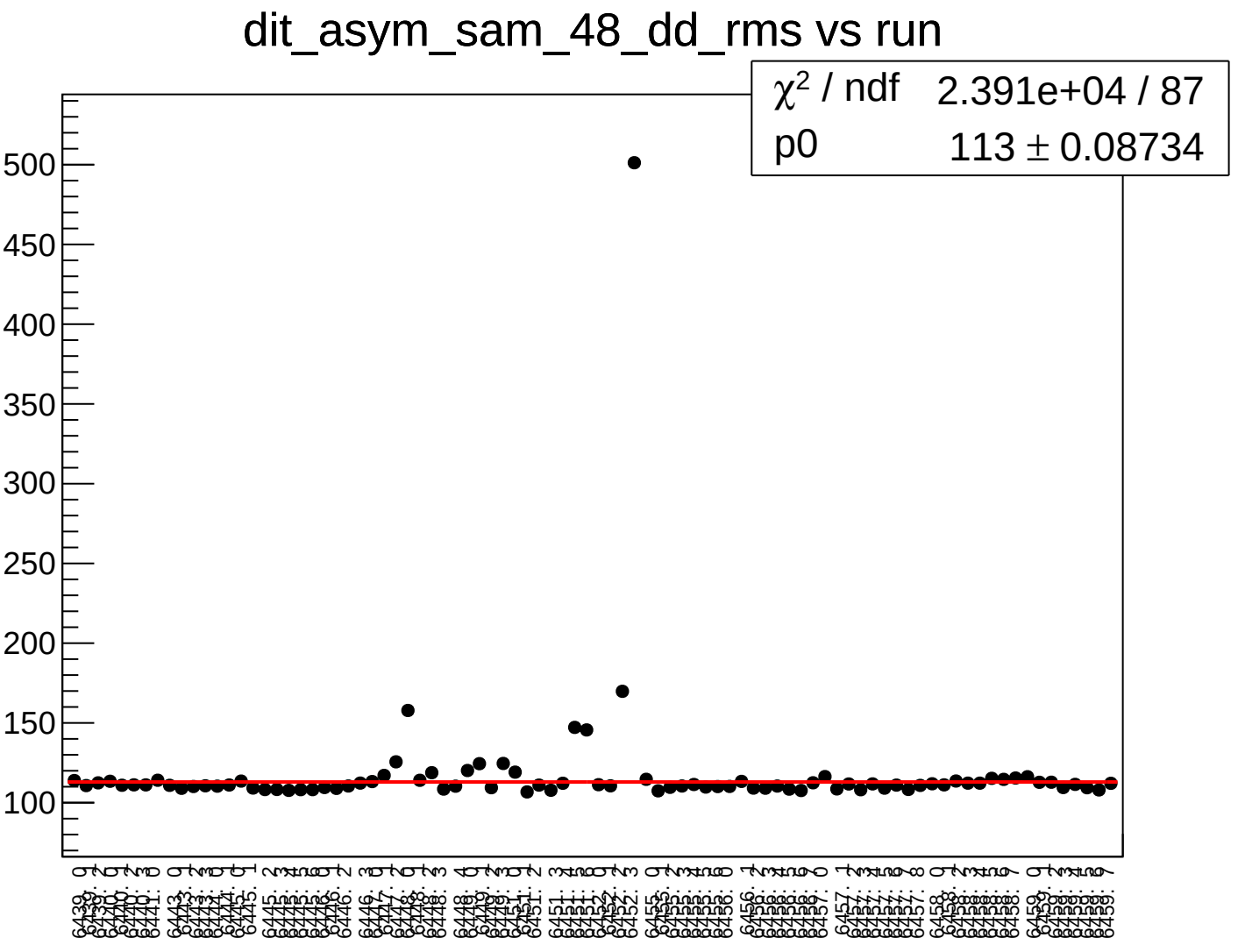

asym_sam_37_dd_mean vs run
χ² / ndf 73.17 / 87
p0 1217 ± 523.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −912.8
Std Dev 976.1
2
1
0
−1
−2
−3

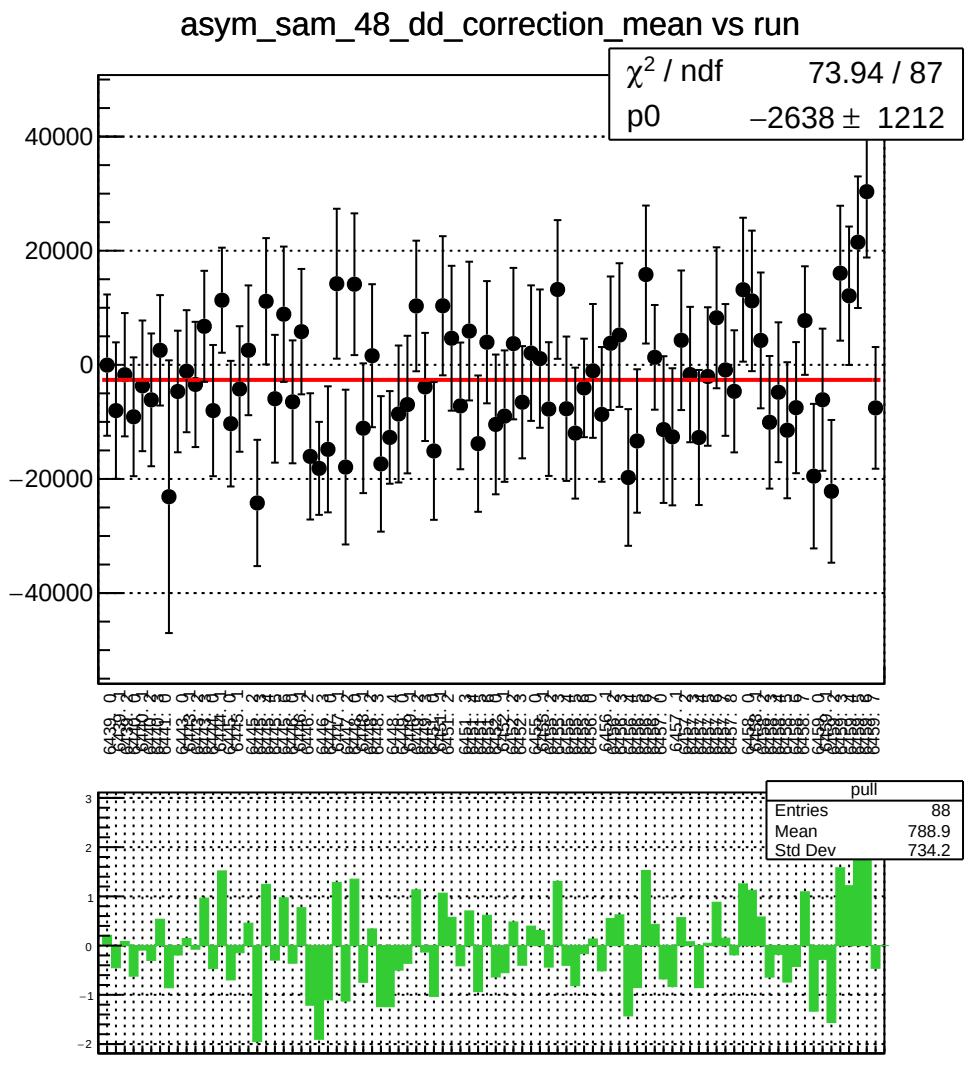

pull1D
Entries 88
Mean 0.002632
Std Dev 0.9119
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

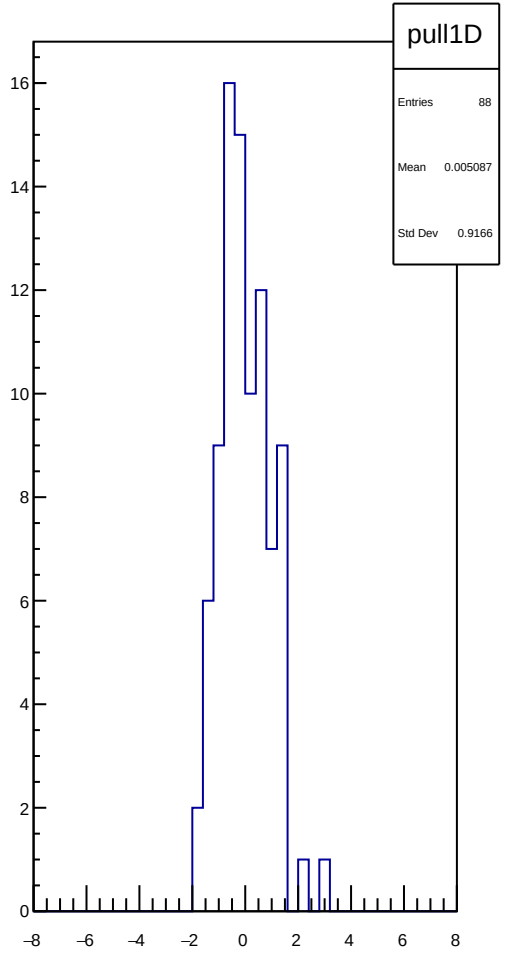

asym_sam_37_dd_rms vs run
χ² / ndf 1.585e+04 / 87
p0 479.6 ± 0.3699
700
650
600
550
500
450
400

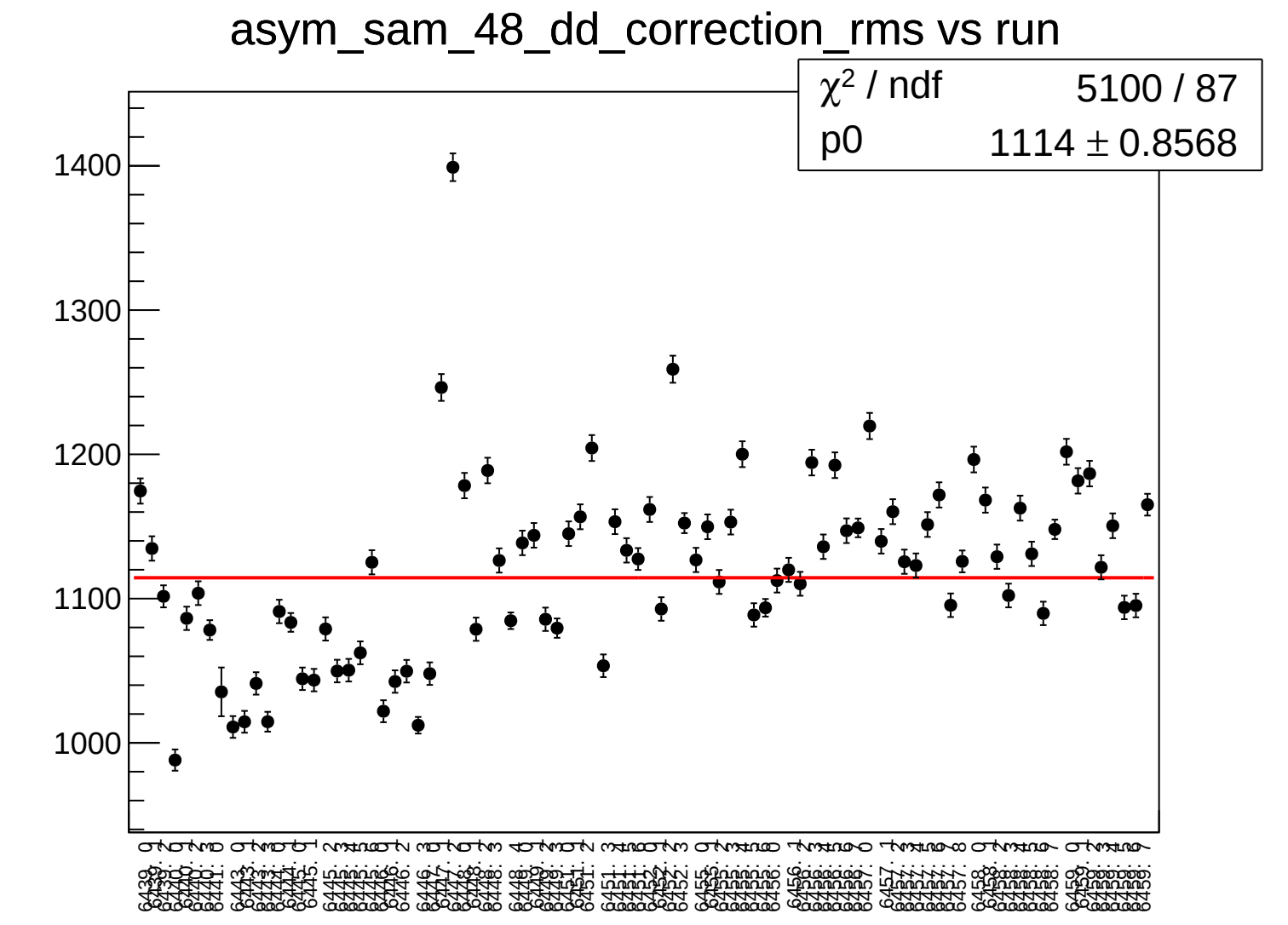

dit_asym_sam_48_dd_mean vs run
χ² / ndf 93.36 / 87
p0 275.2 ± 123.5
pull
Entries 88
Mean −3.557
Std Dev 73.97

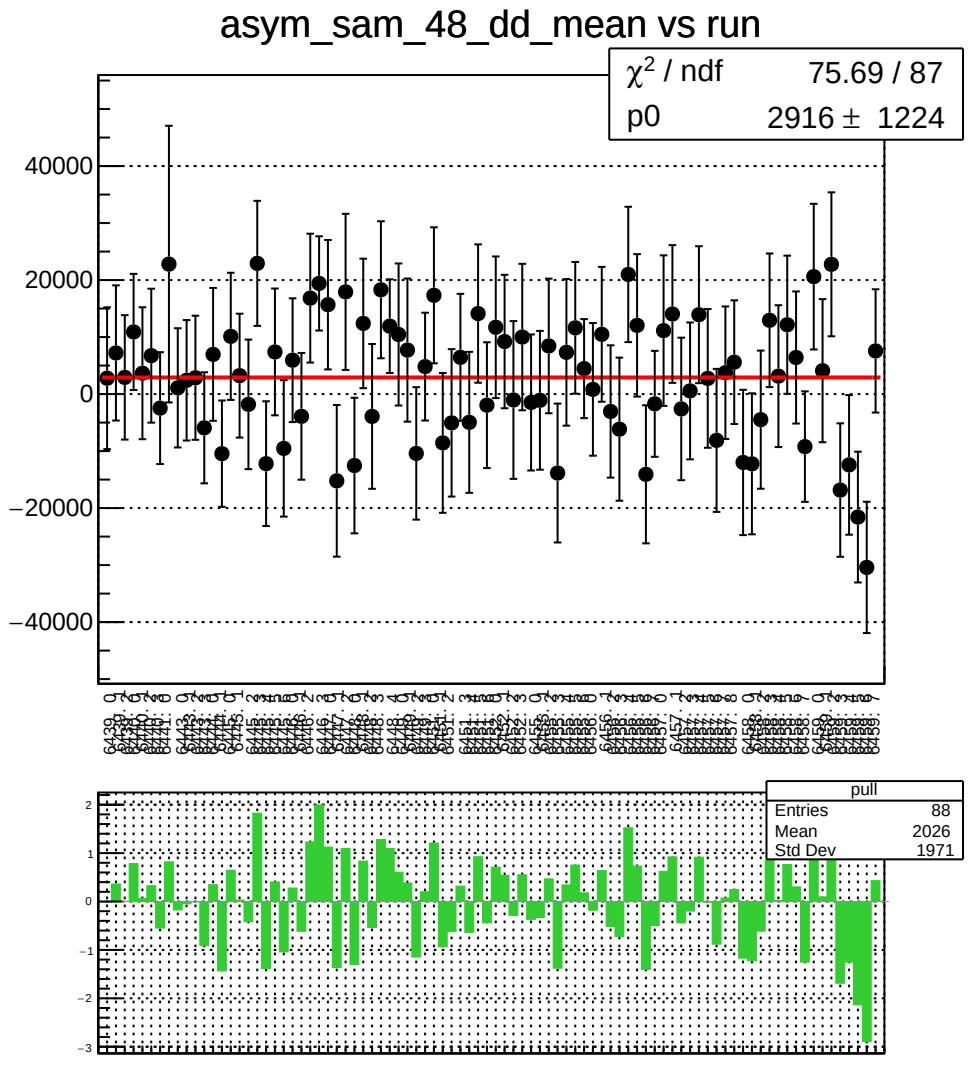

pull1D
Entries 88
Mean 0.02248
Std Dev 1.03

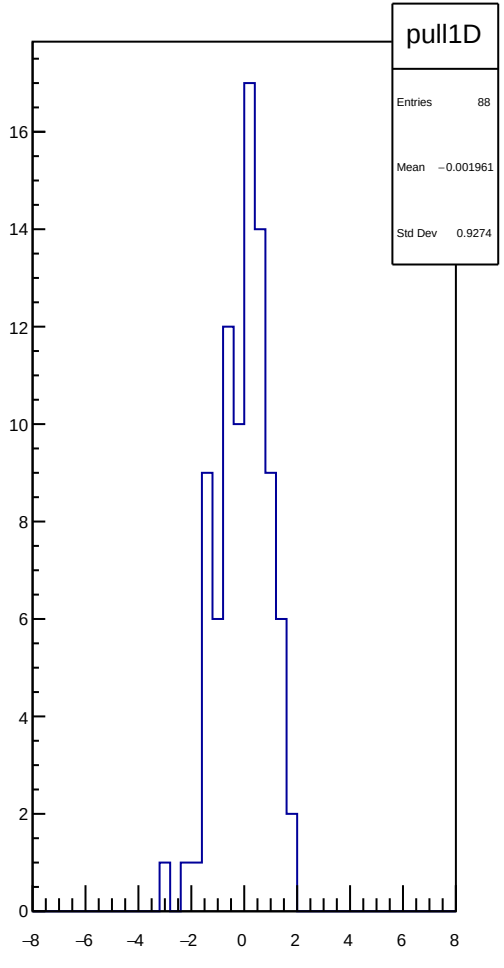

dit_asym_sam_48_dd_rms vs run
χ² / ndf 2.391e+04 / 87
p0 113 ± 0.08734
500
450
400
350
300
250
200
150
100

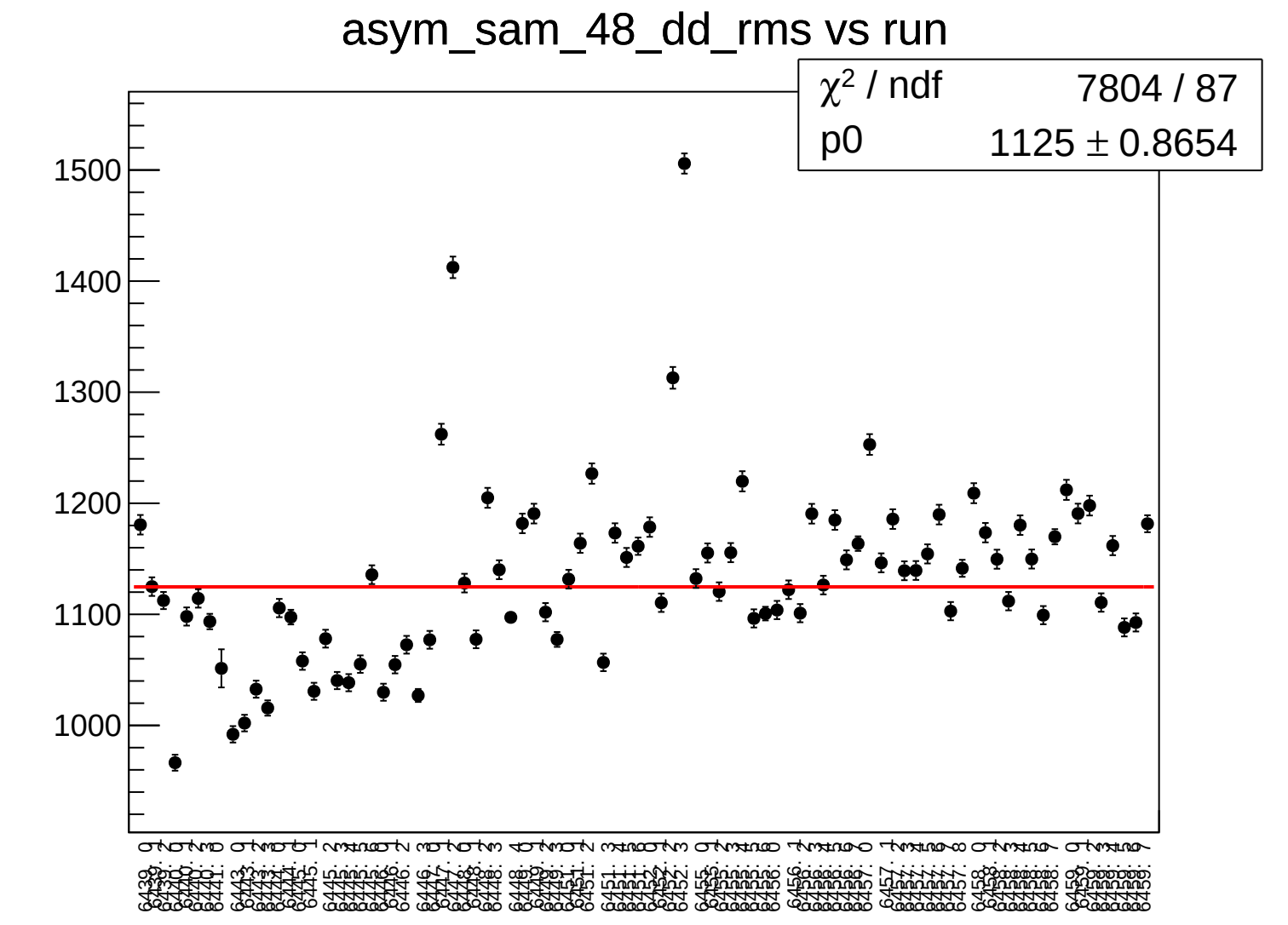

asym_sam_48_dd_correction_mean vs run
χ² / ndf 73.94 / 87
p0 −2638 ± 1212
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 788.9
Std Dev 734.2
3
2
1
0
−1
−2

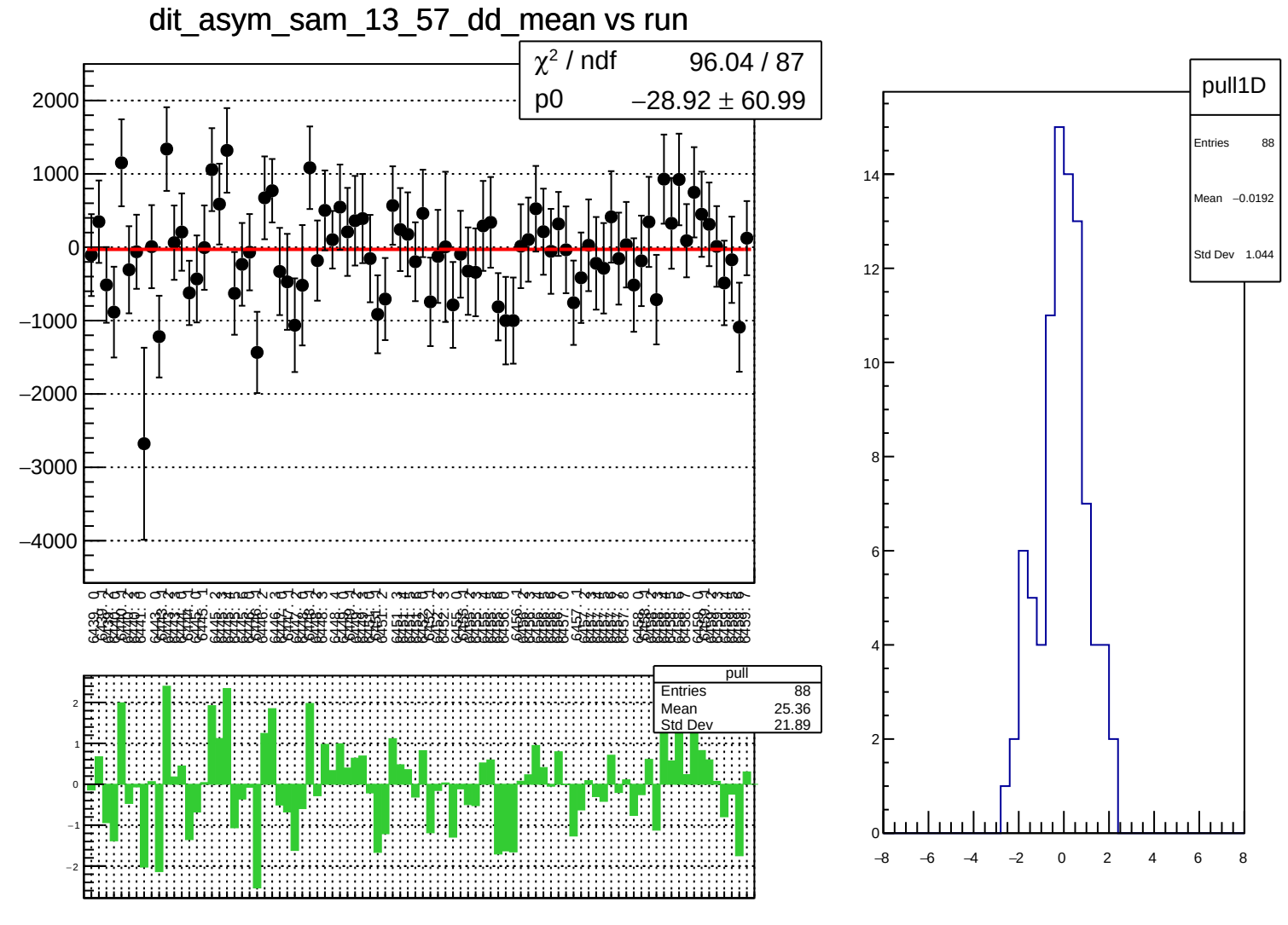

pull1D
Entries 88
Mean 0.005087
Std Dev 0.9166
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

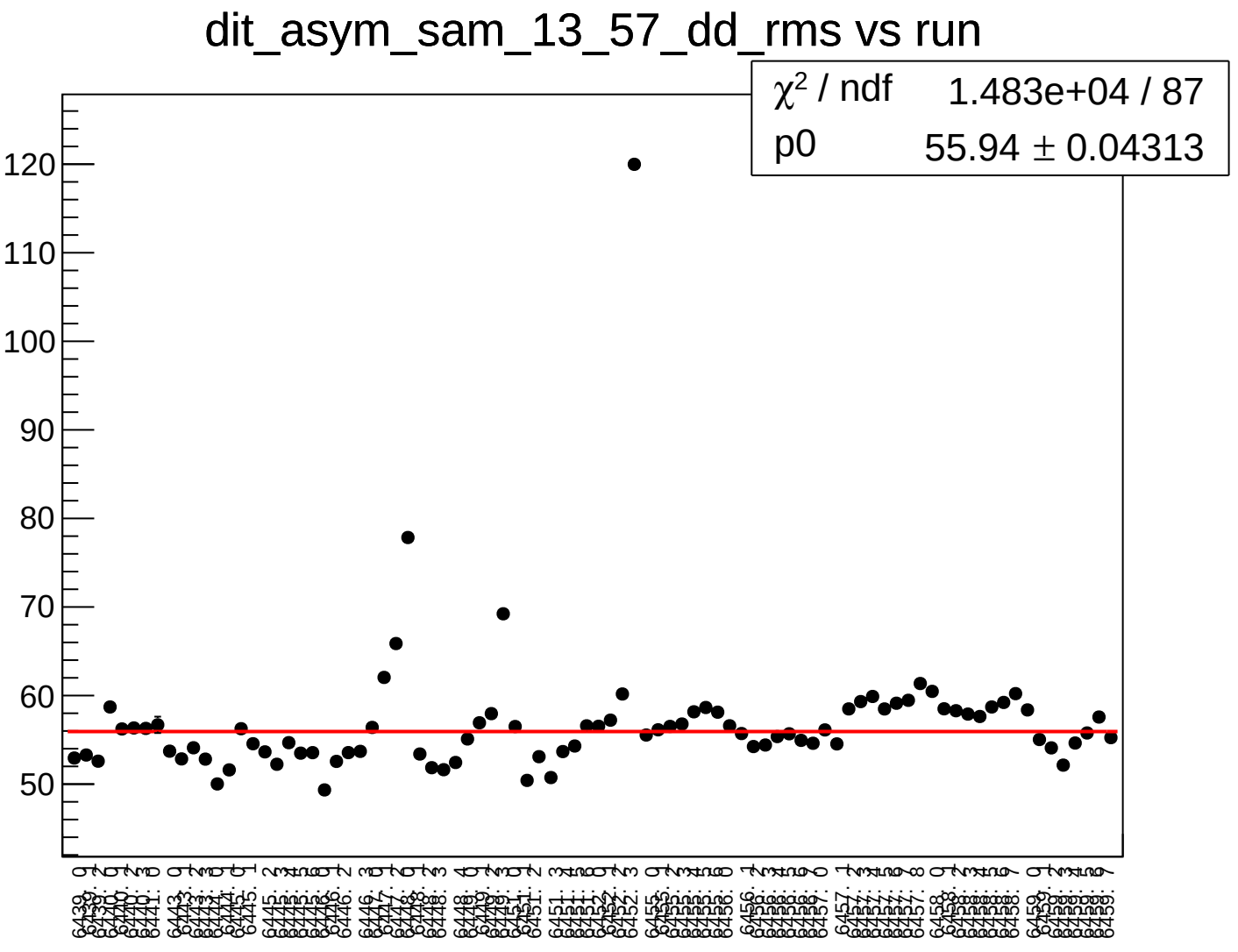

asym_sam_48_dd_correction_rms vs run
χ² / ndf 5100 / 87
p0 1114 ± 0.8568
1400
1300
1200
1100
1000

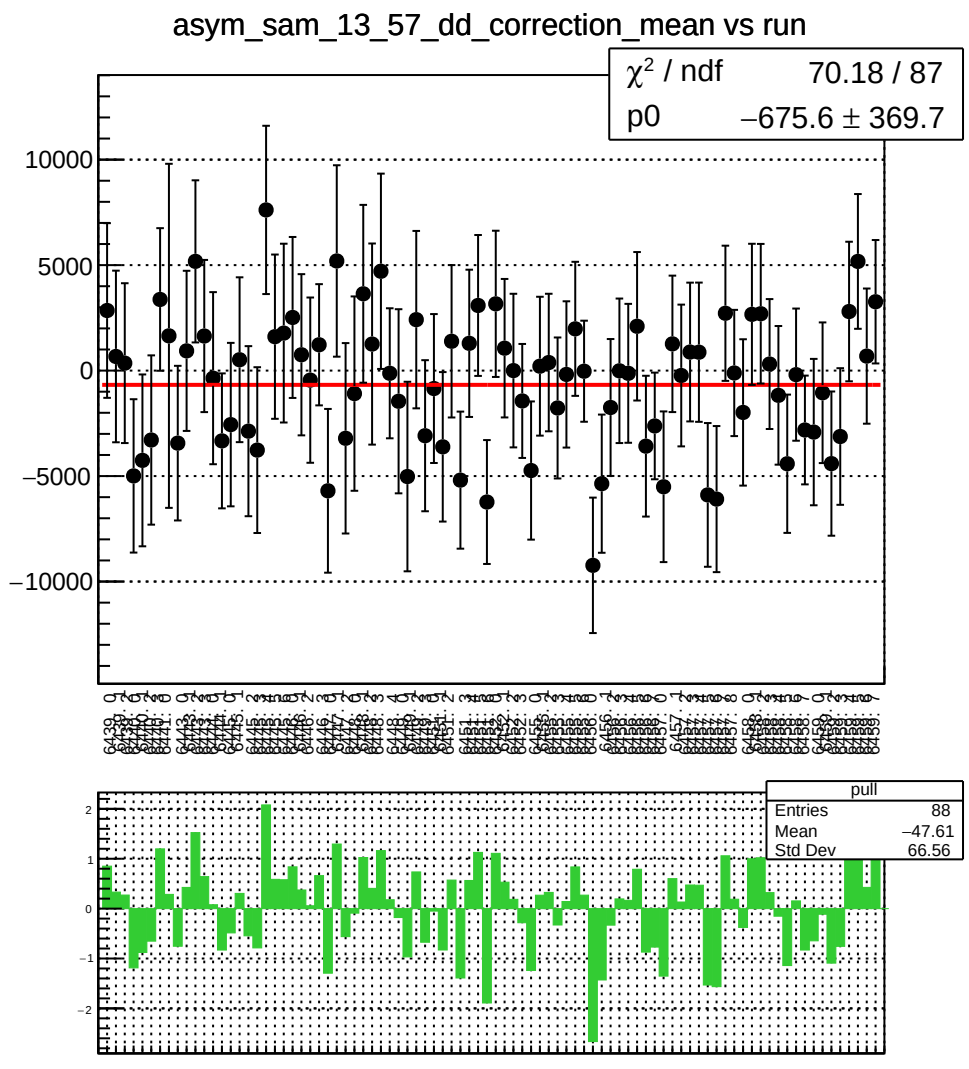

asym_sam_48_dd_mean vs run
χ² / ndf 75.69 / 87
p0 2916 ± 1224
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 2026
Std Dev 1971
2
1
0
−1
−2
−3

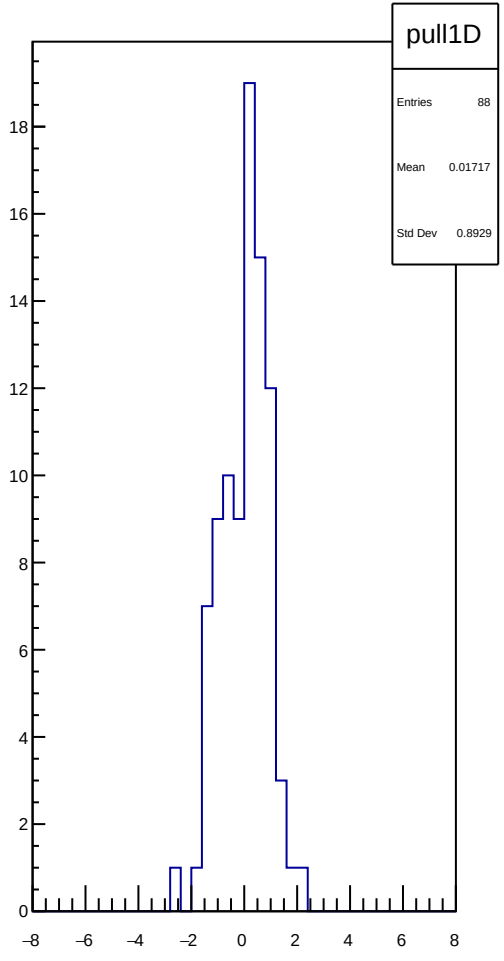

pull1D
Entries 88
Mean −0.001961
Std Dev 0.9274
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

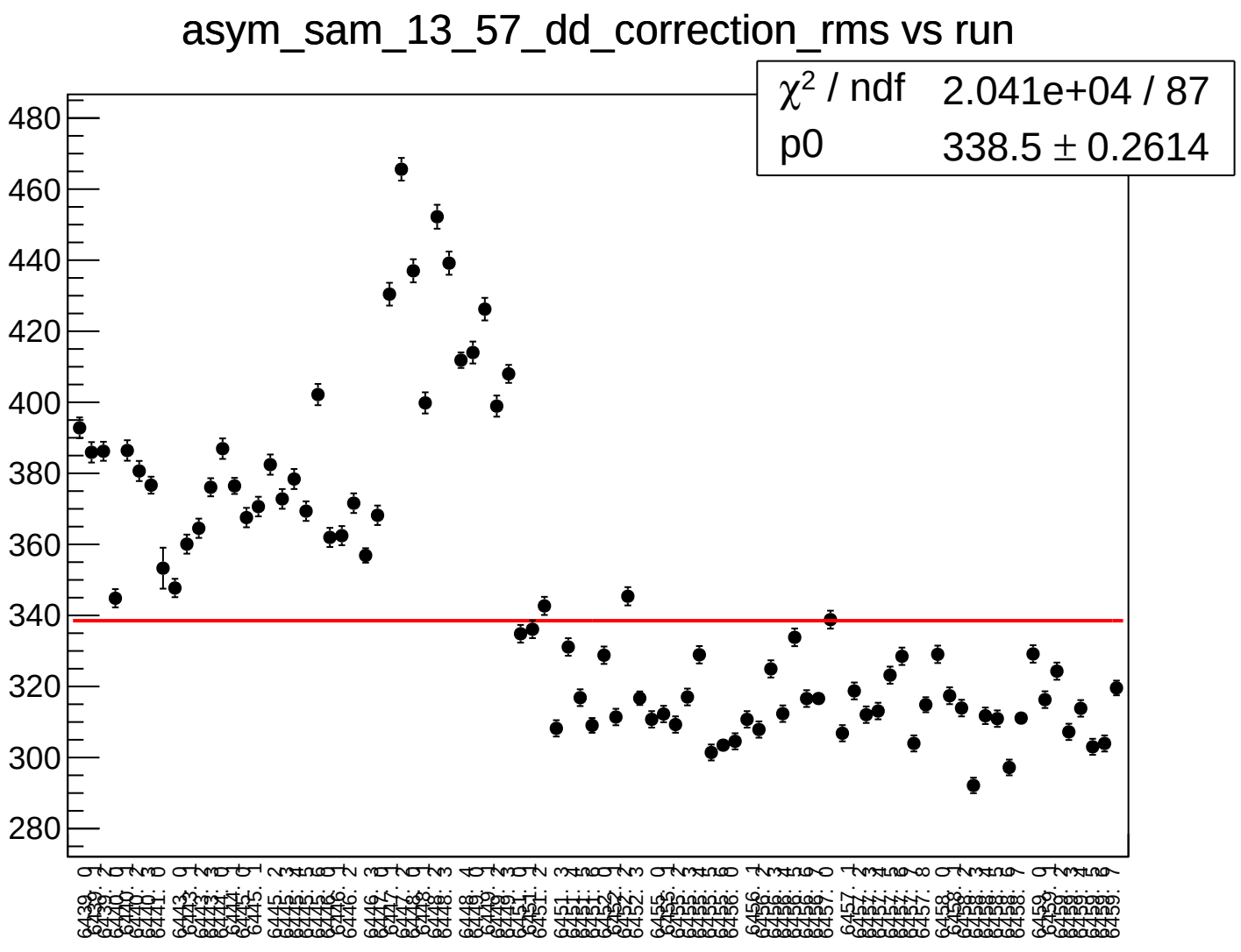

asym_sam_48_dd_rms vs run
χ² / ndf 7804 / 87
p0 1125 ± 0.8654
1500
1400
1300
1200
1100
1000

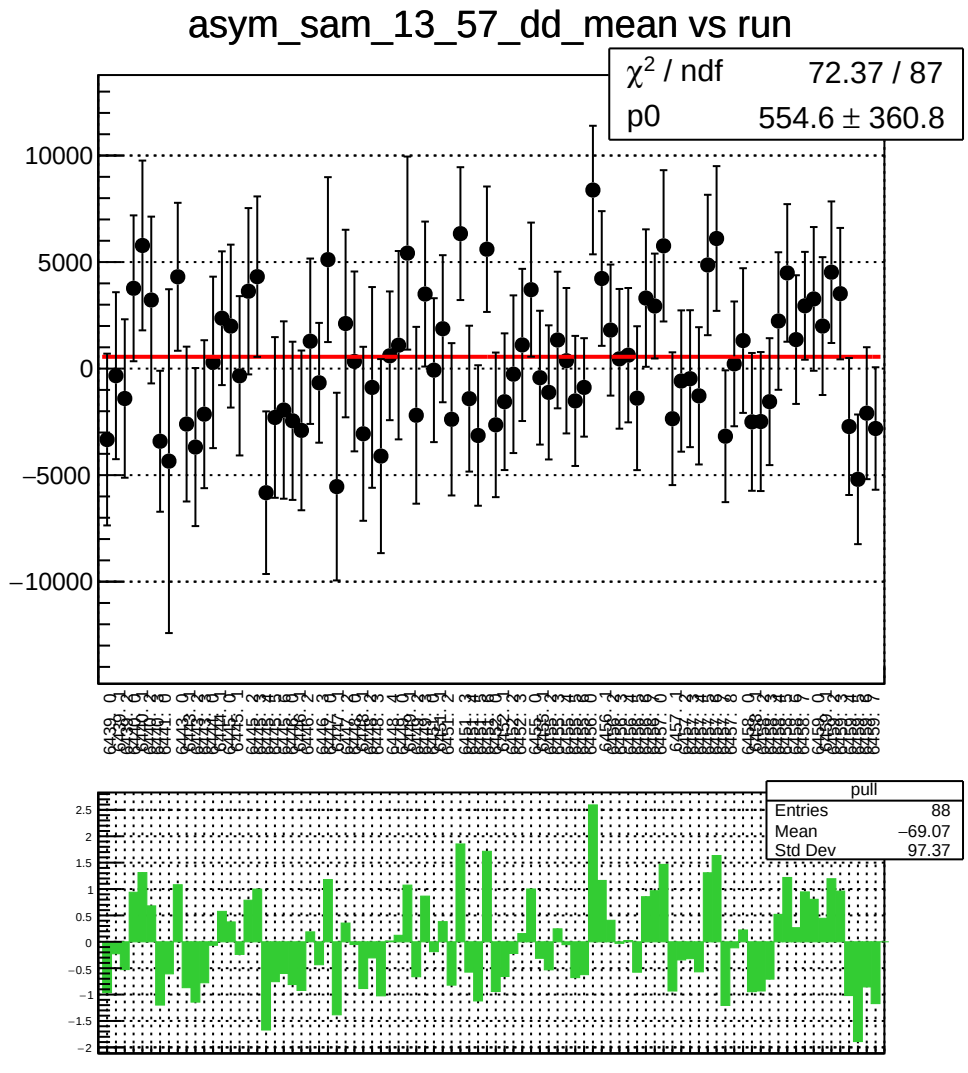

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 96.04 / 87
p0 −28.92 ± 60.99
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean 25.36
Std Dev 21.89
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0192
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

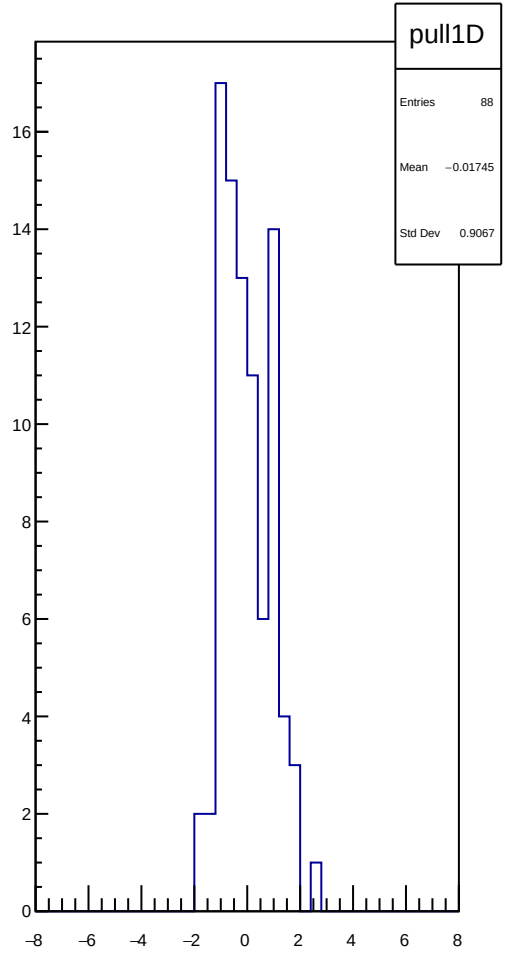

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.483e+04 / 87
p0 55.94 ± 0.04313
120
110
100
90
80
70
60
50

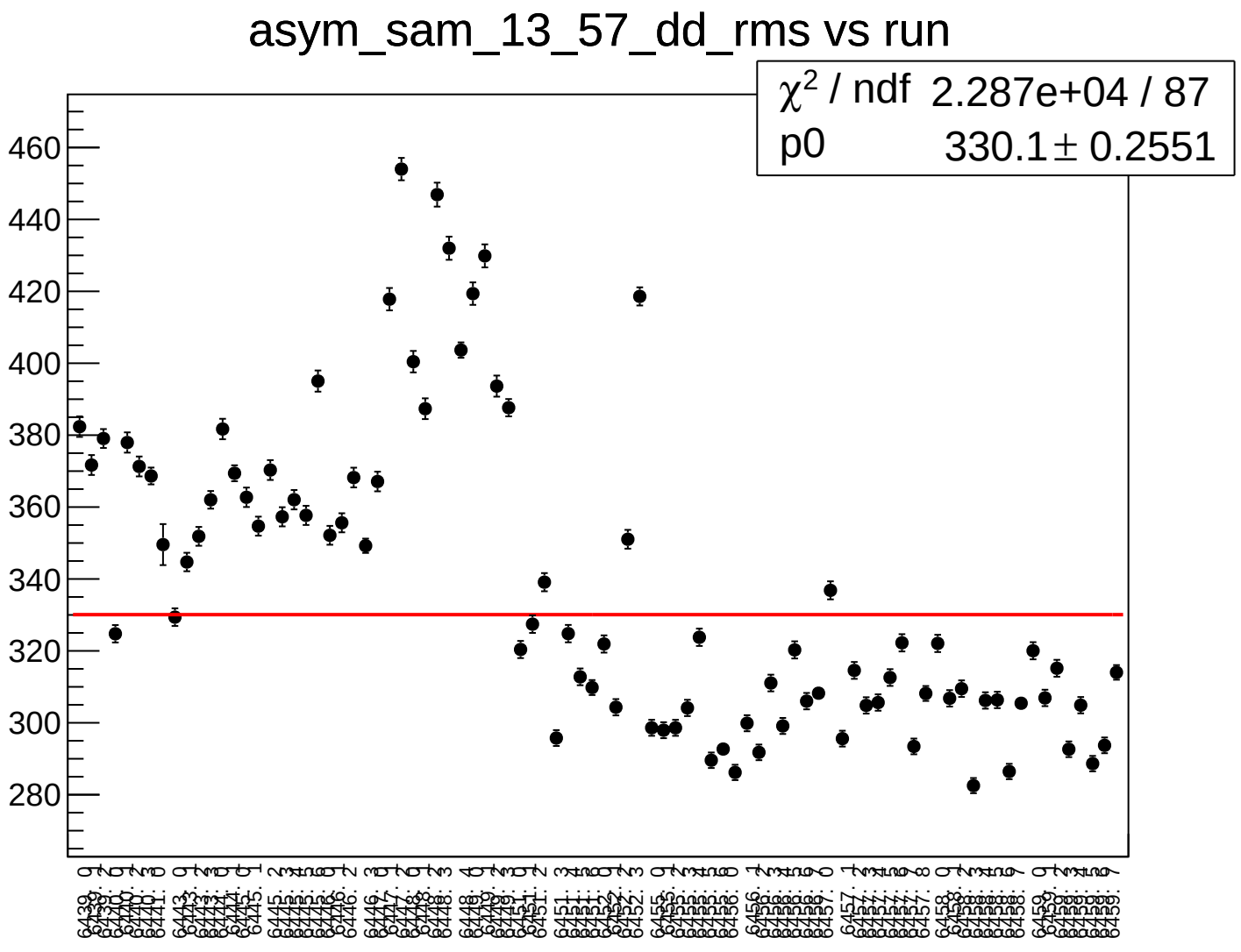

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 70.18 / 87
p0 −675.6 ± 369.7
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −47.61
Std Dev 66.56
2
1
0
−1
−2

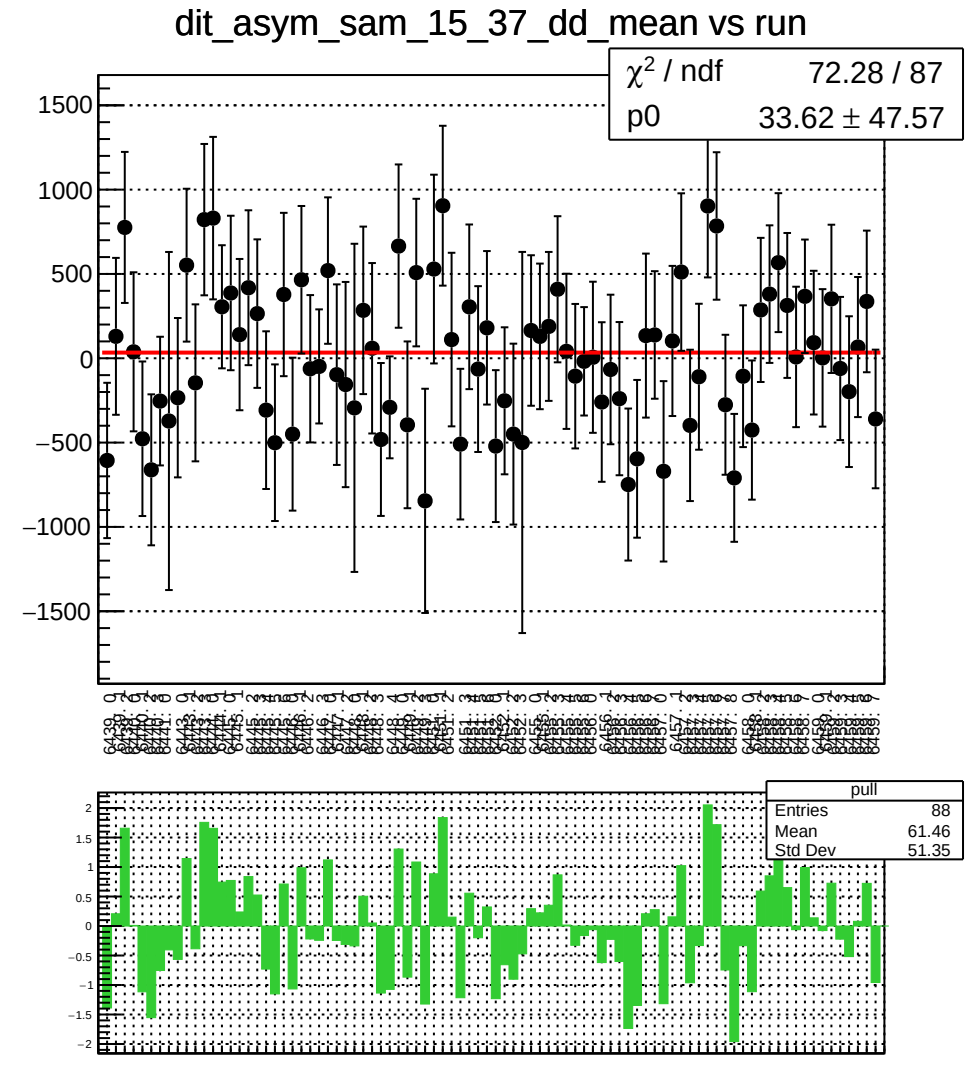

pull1D
Entries 88
Mean 0.01717
Std Dev 0.8929
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

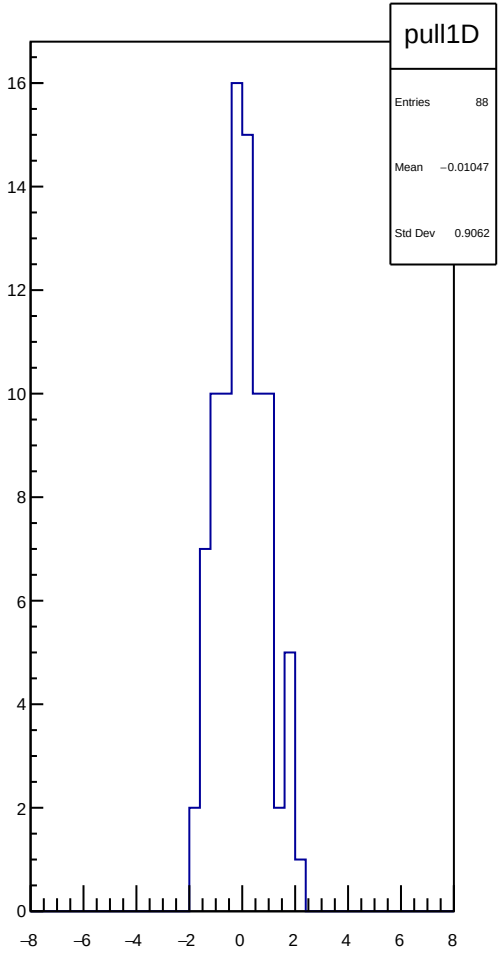

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 2.041e+04 / 87
p0 338.5 ± 0.2614
480
460
440
420
400
380
360
340
320
300
280

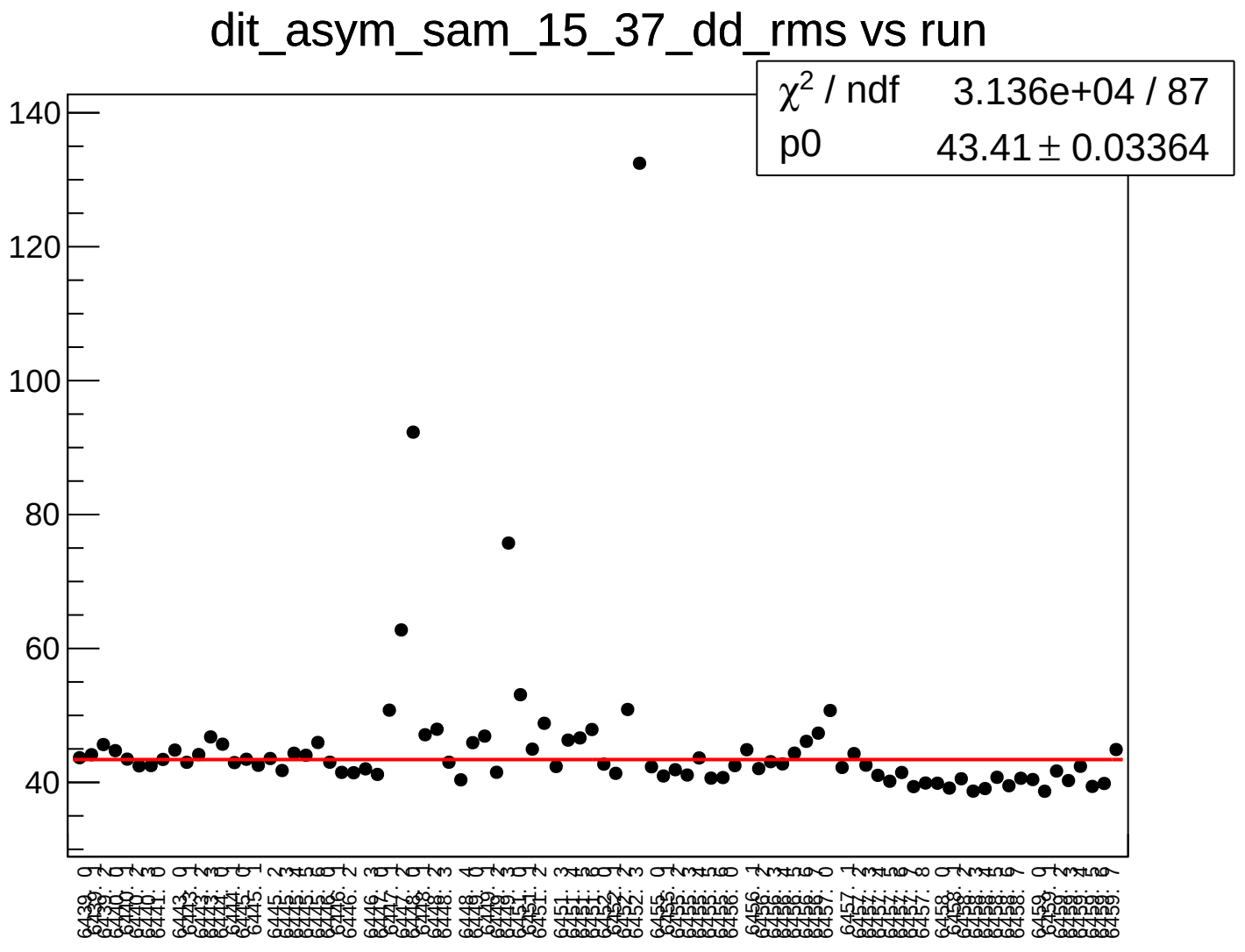

asym_sam_13_57_dd_mean vs run
χ² / ndf 72.37 / 87
p0 554.6 ± 360.8
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −69.07
Std Dev 97.37
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

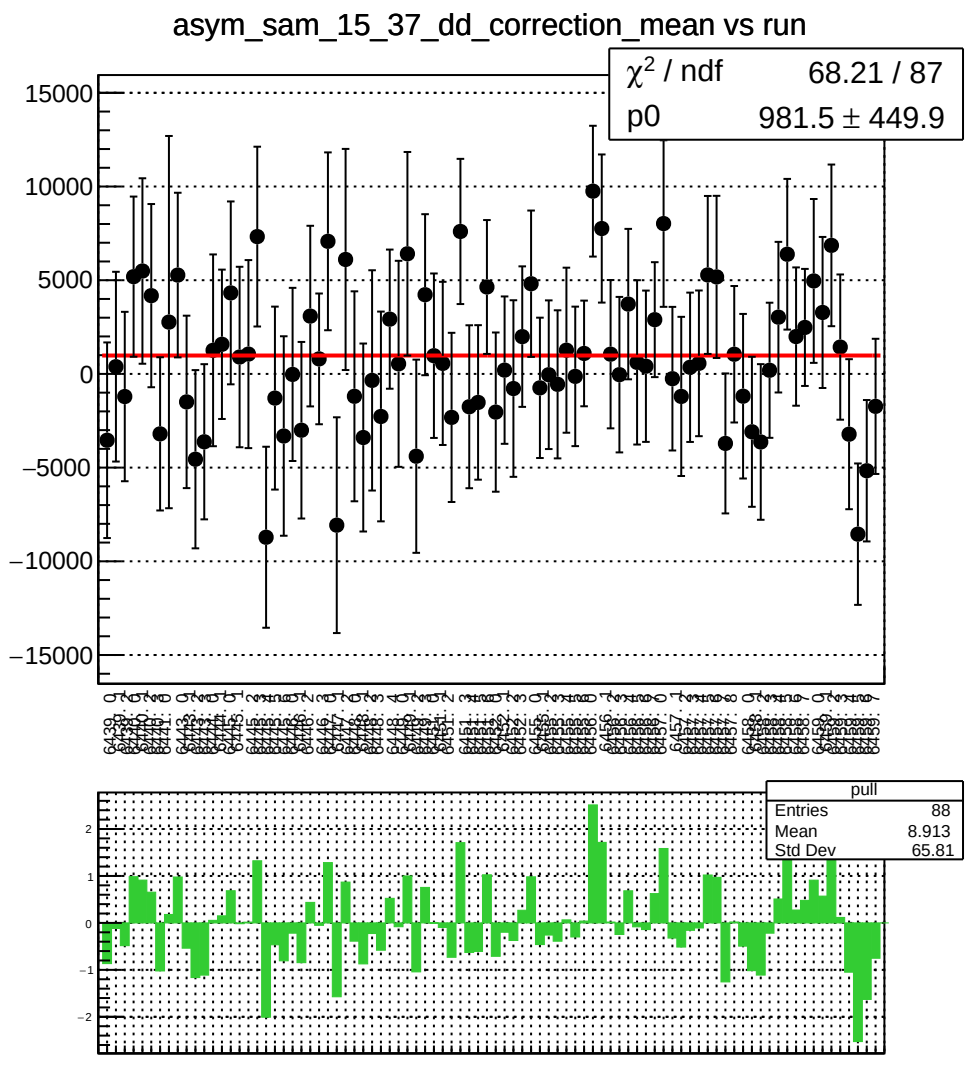

pull1D
Entries 88
Mean −0.01745
Std Dev 0.9067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

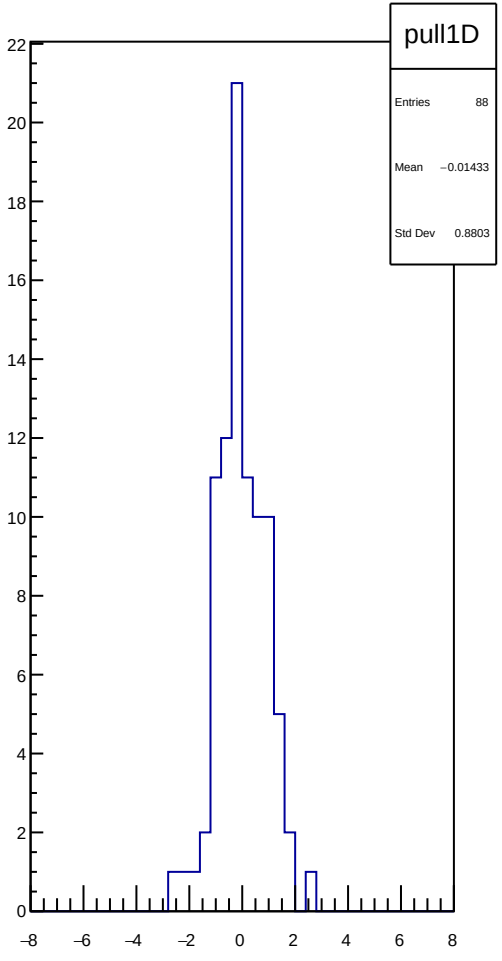

asym_sam_13_57_dd_rms vs run
χ² / ndf 2.287e+04 / 87
p0 330.1 ± 0.2551
460
440
420
400
380
360
340
320
300
280

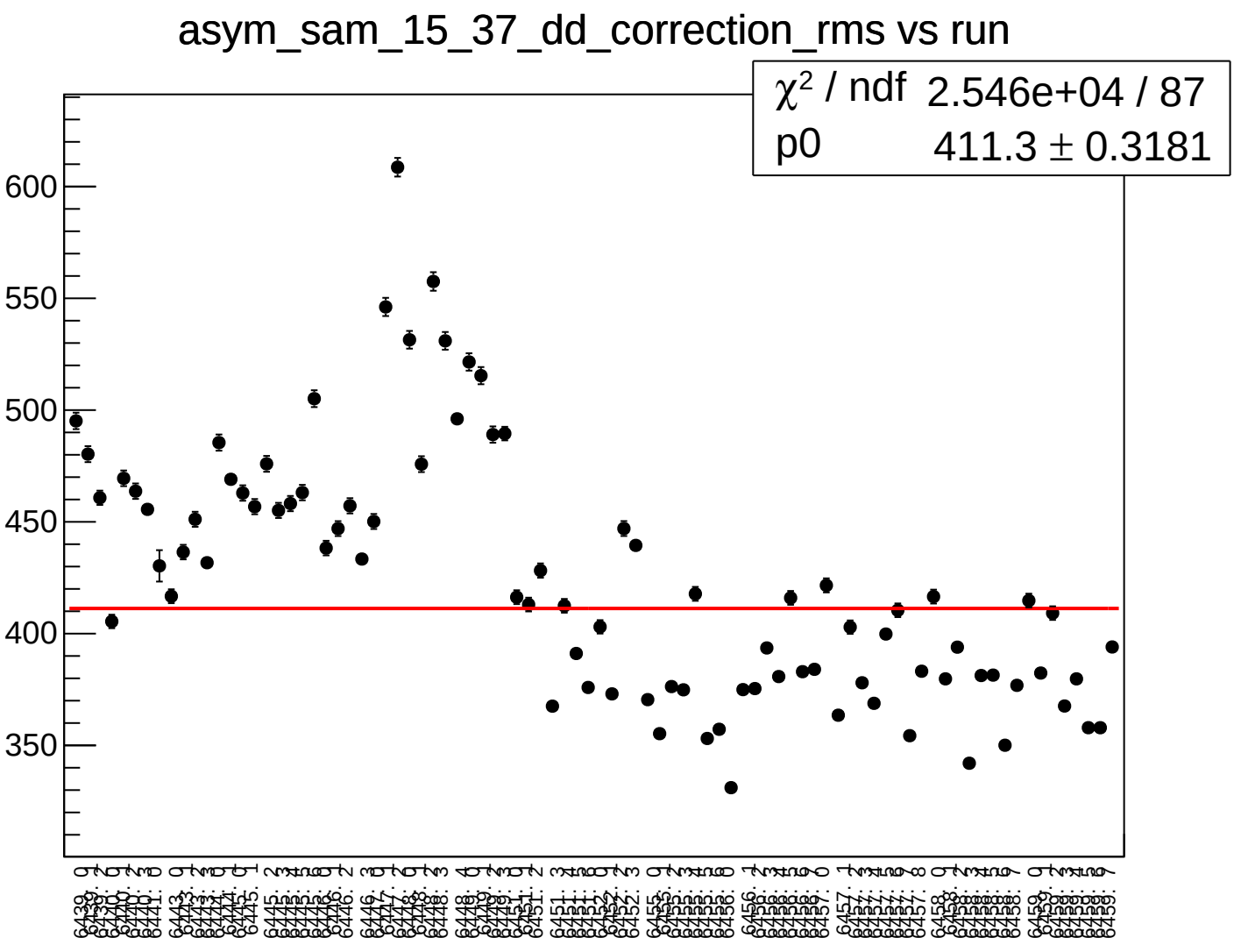

dit_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 72.28 / 87
p0 33.62 ± 47.57
1500
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean 61.46
Std Dev 51.35
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

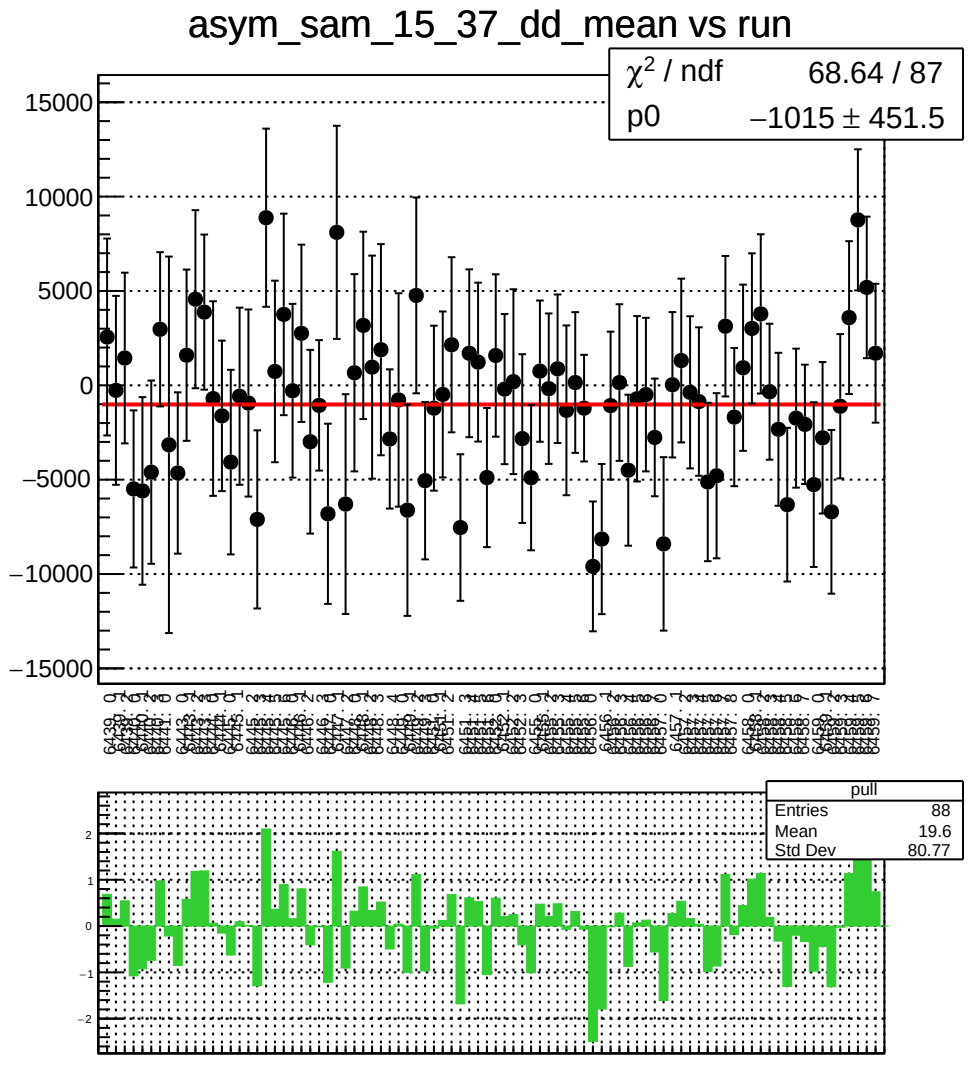

pull1D
Entries 88
Mean −0.01047
Std Dev 0.9062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

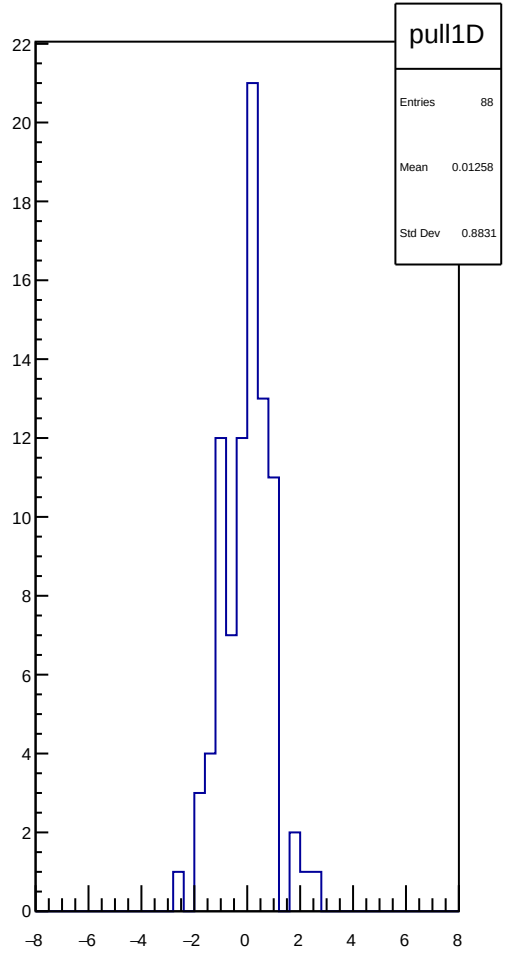

dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 3.136e+04 / 87
p0 43.41 ± 0.03364
140
120
100
80
60
40

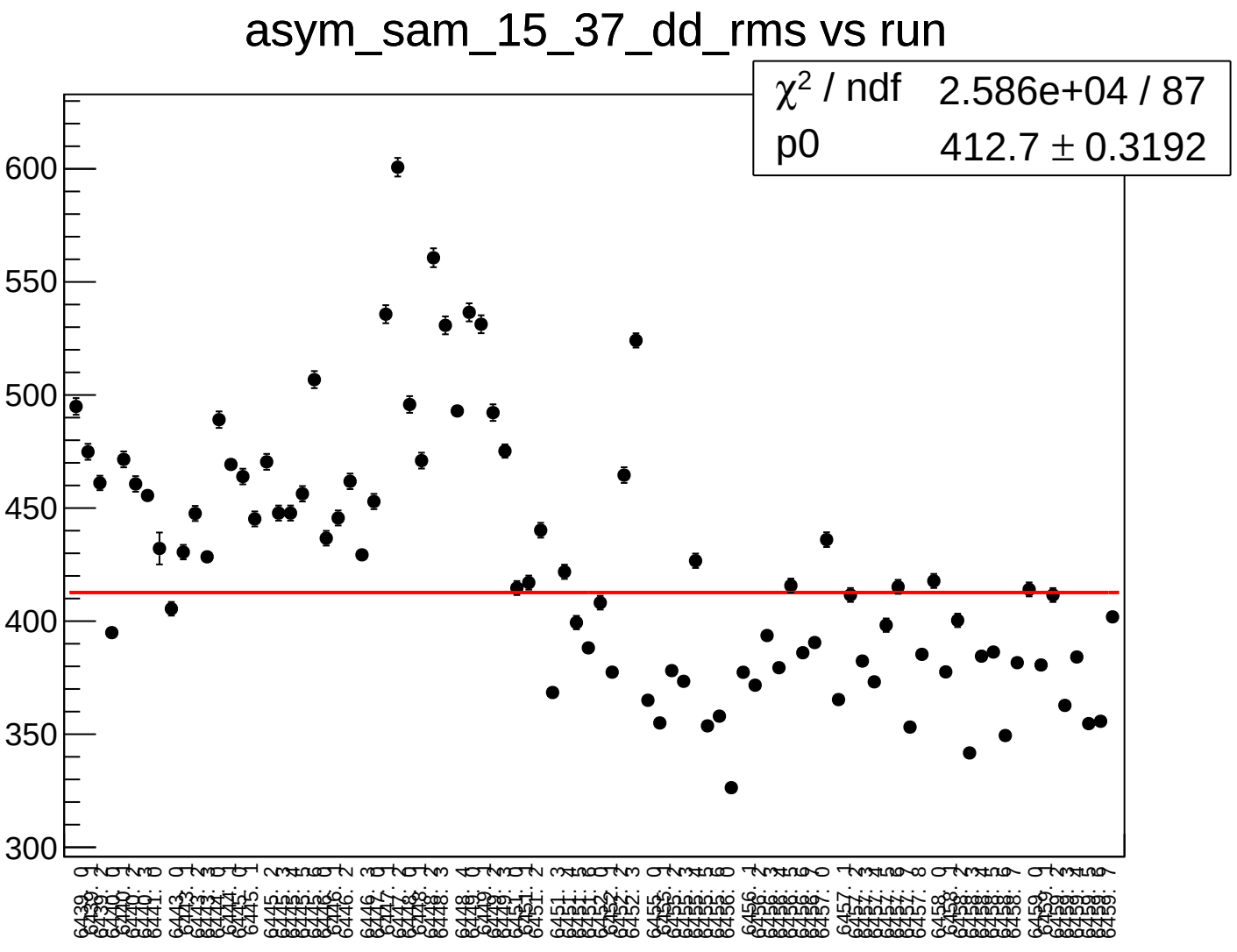

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 68.21 / 87
p0 981.5 ± 449.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 8.913
Std Dev 65.81
2
1
0
−1
−2

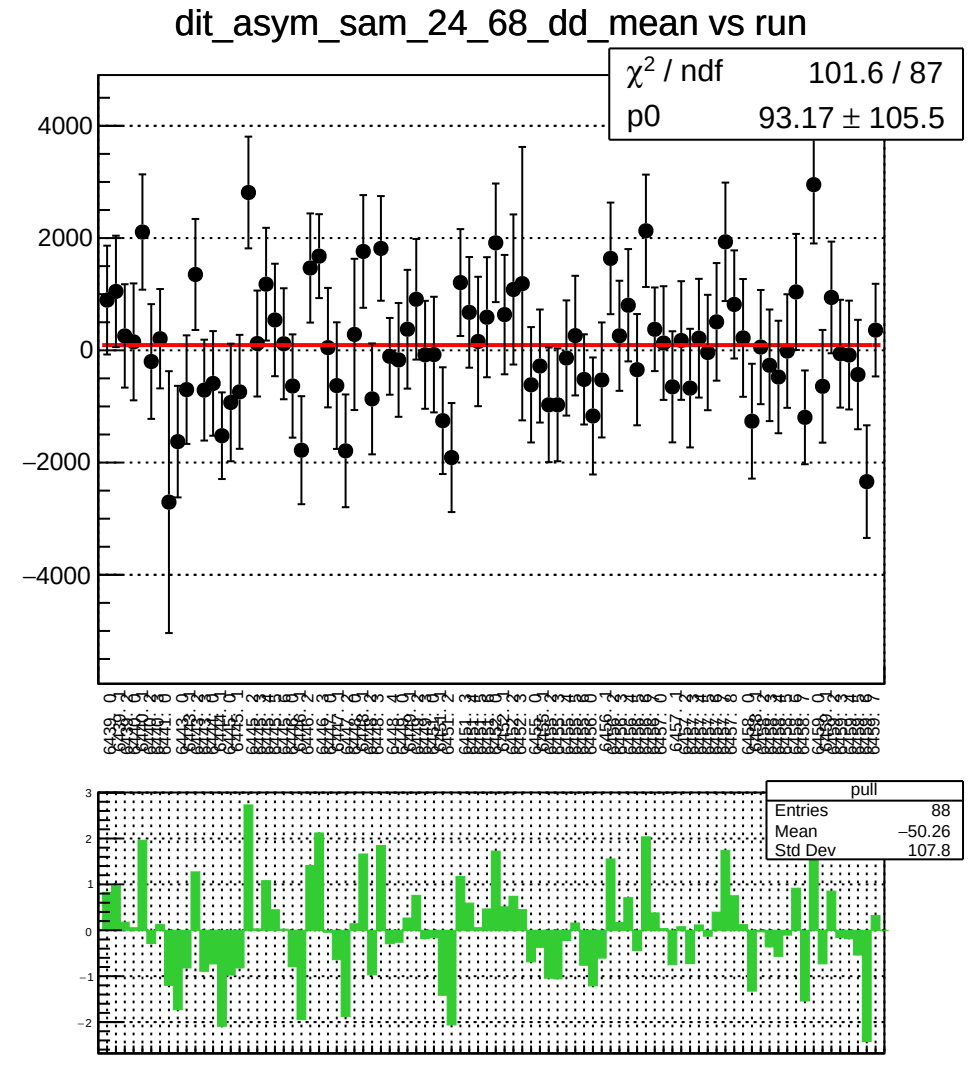

pull1D
Entries 88
Mean −0.01433
Std Dev 0.8803
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

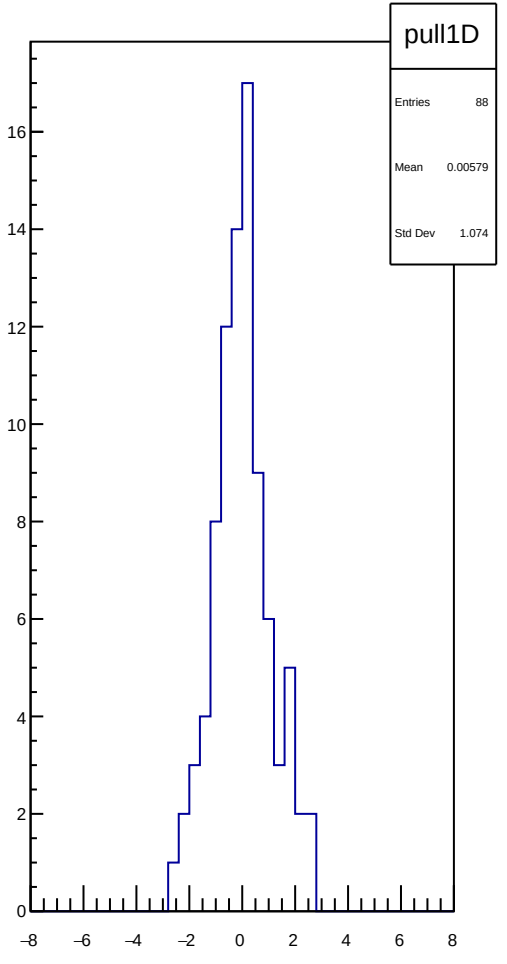

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 2.546e+04 / 87
p0 411.3 ± 0.3181
600
550
500
450
400
350

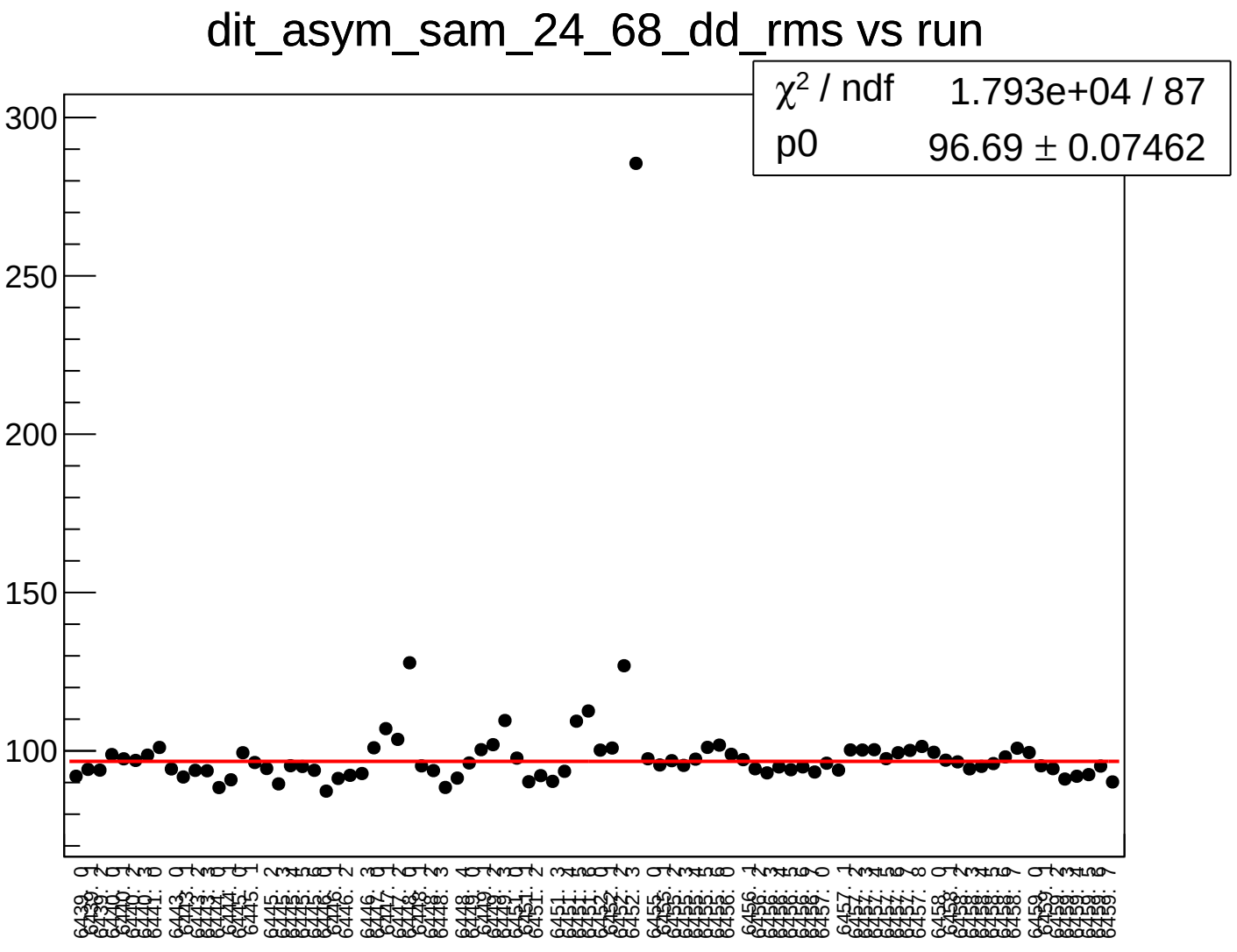

asym_sam_15_37_dd_mean vs run
χ² / ndf 68.64 / 87
p0 −1015 ± 451.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 19.6
Std Dev 80.77
2
1
0
−1
−2

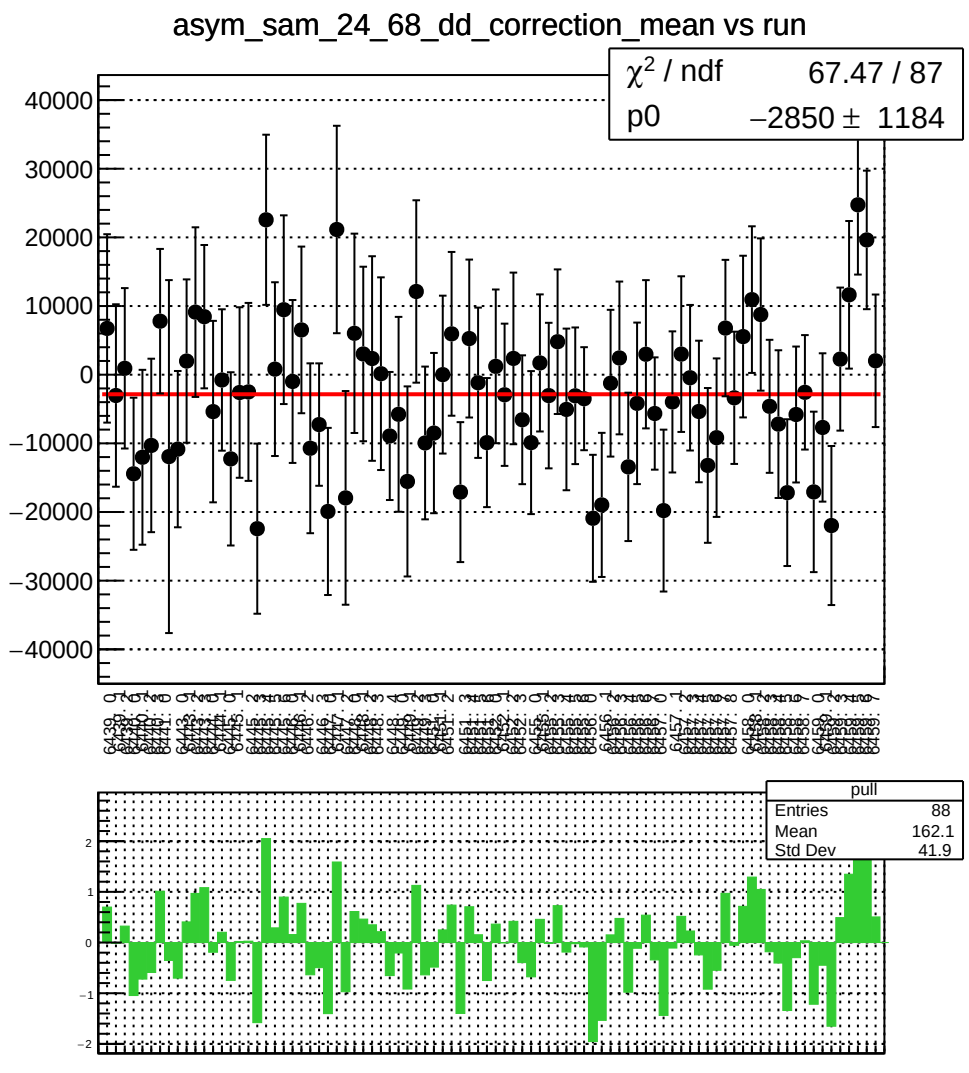

pull1D
Entries 88
Mean 0.01258
Std Dev 0.8831
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

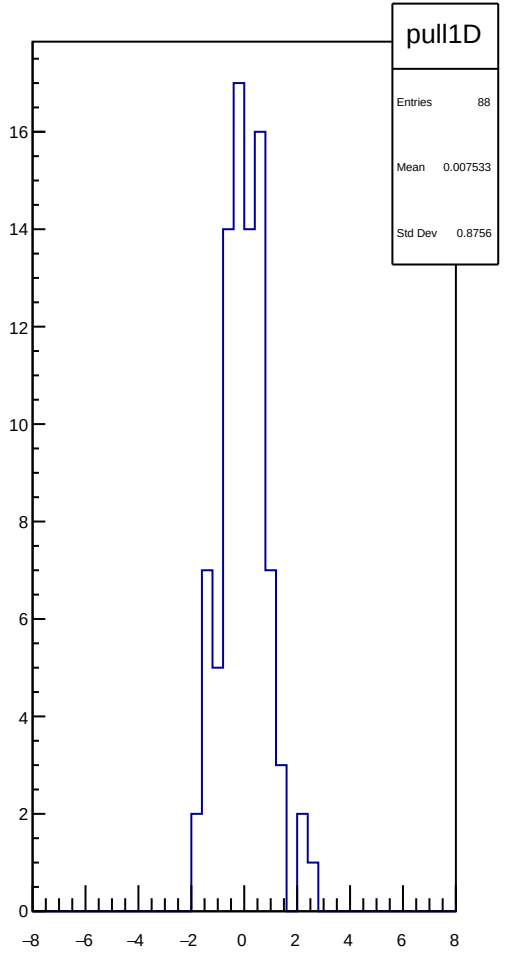

asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.586e+04 / 87
p0 412.7 ± 0.3192
600
550
500
450
400
350
300

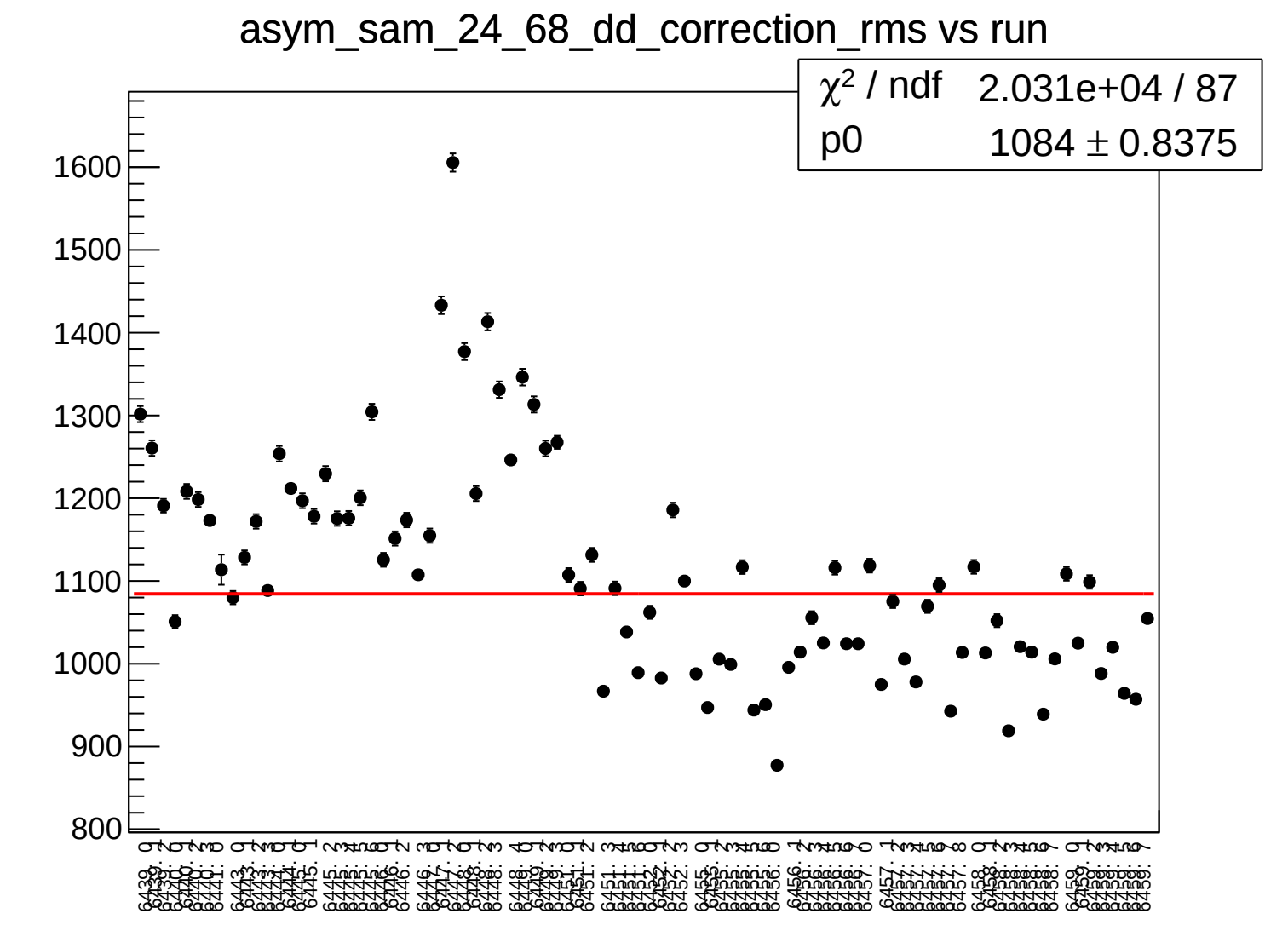

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 101.6 / 87
p0 93.17 ± 105.5
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −50.26
Std Dev 107.8
3
2
1
0
−1
−2

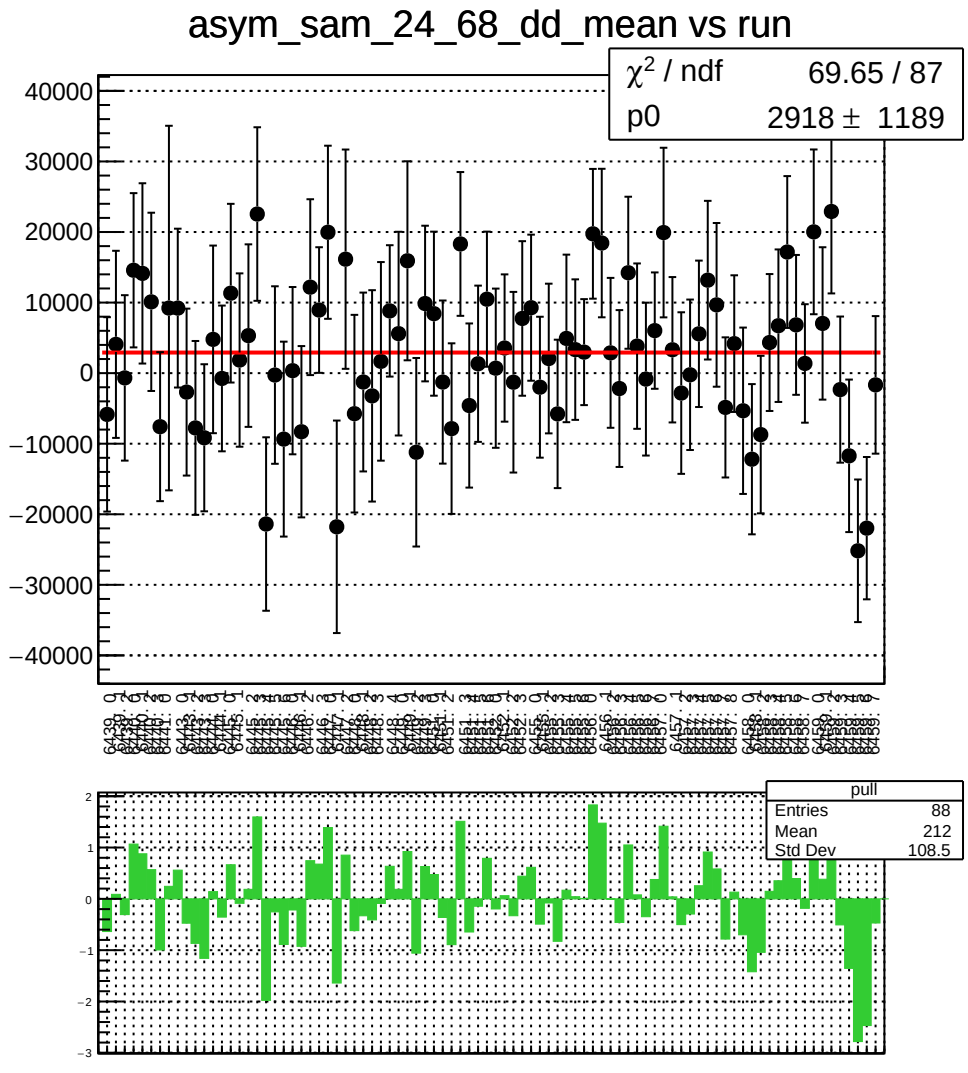

pull1D
Entries 88
Mean 0.00579
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

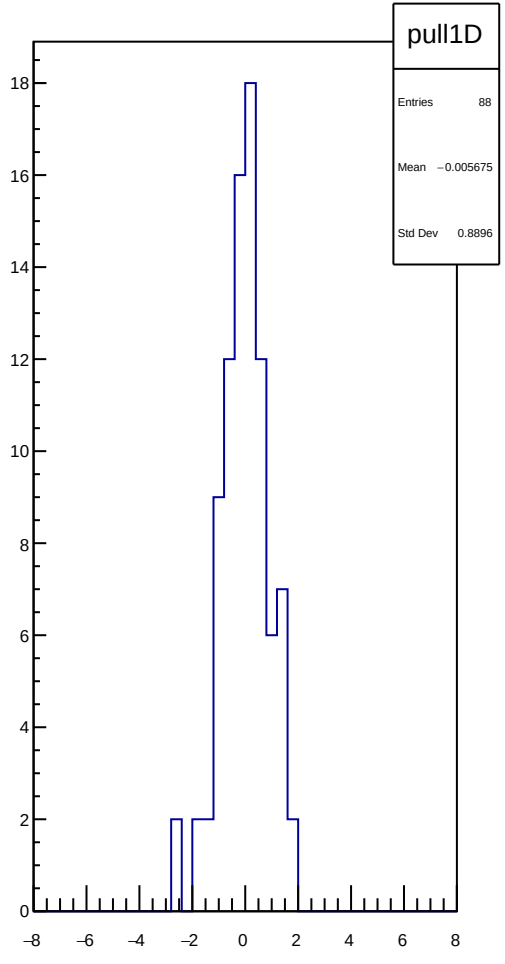

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.793e+04 / 87
p0 96.69 ± 0.07462
300
250
200
150
100

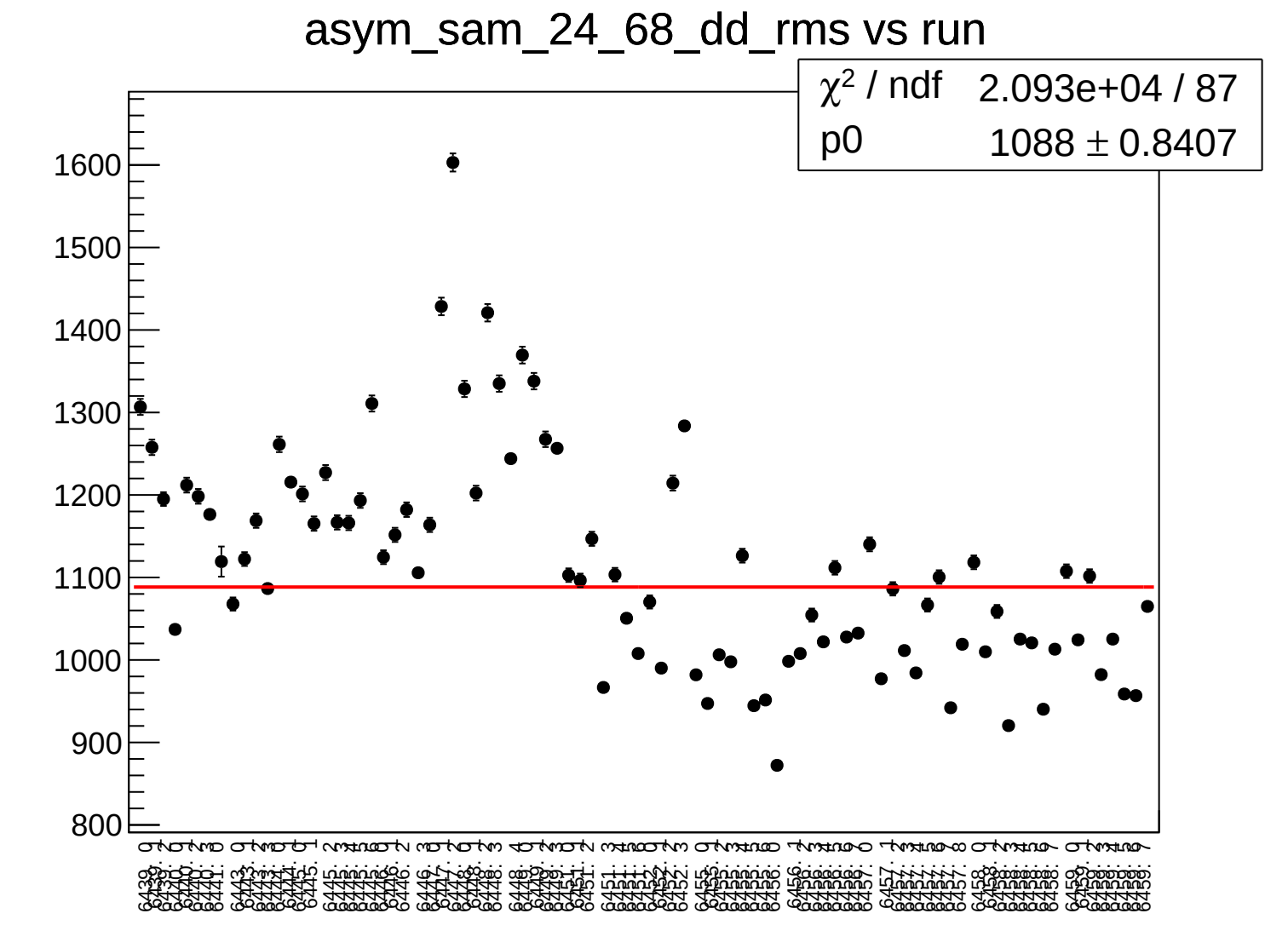

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 67.47 / 87
p0 −2850 ± 1184
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 162.1
Std Dev 41.9
2
1
0
−1
−2

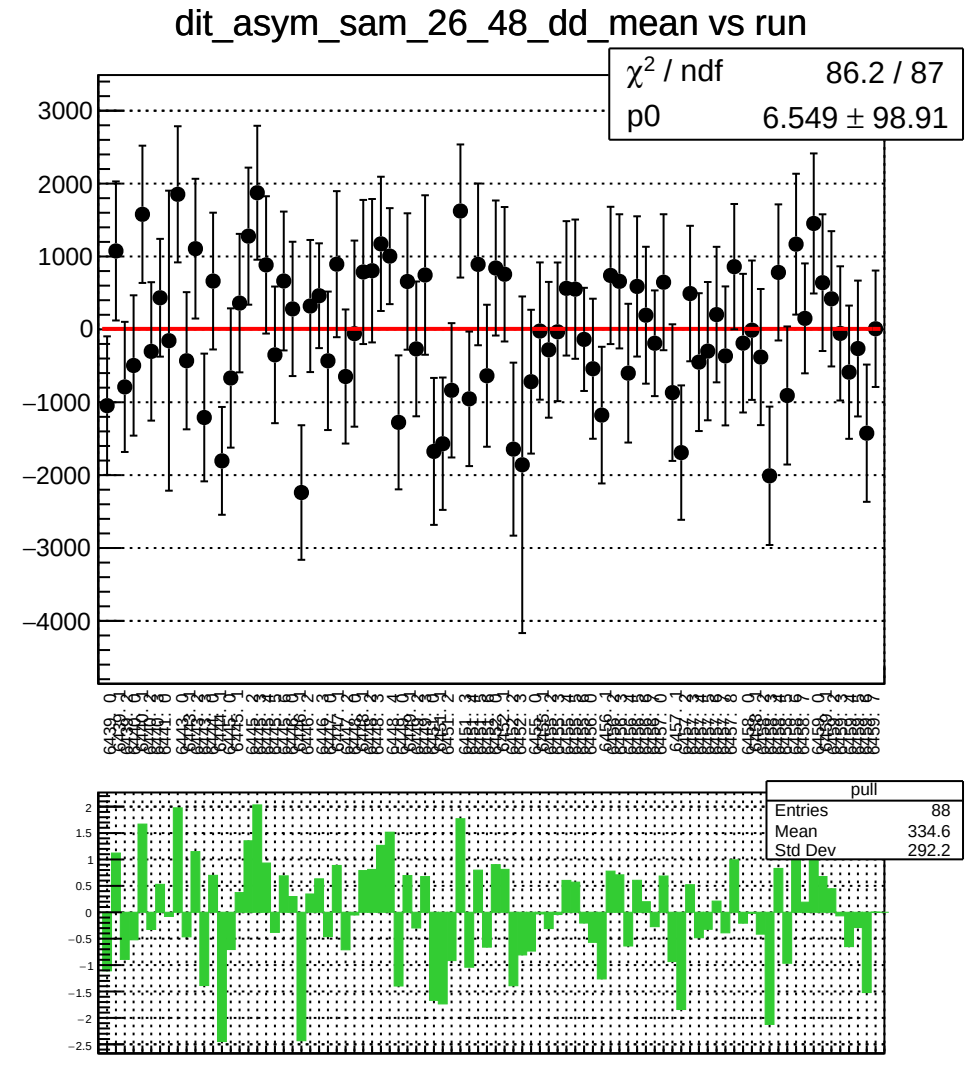

pull1D
Entries 88
Mean 0.007533
Std Dev 0.8756
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

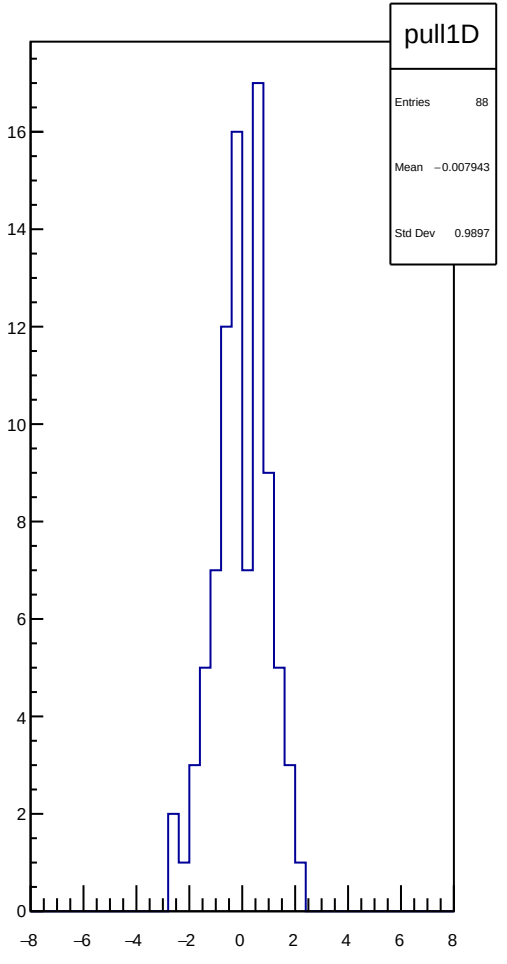

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 2.031e+04 / 87
p0 1084 ± 0.8375
1600
1500
1400
1300
1200
1100
1000
900
800

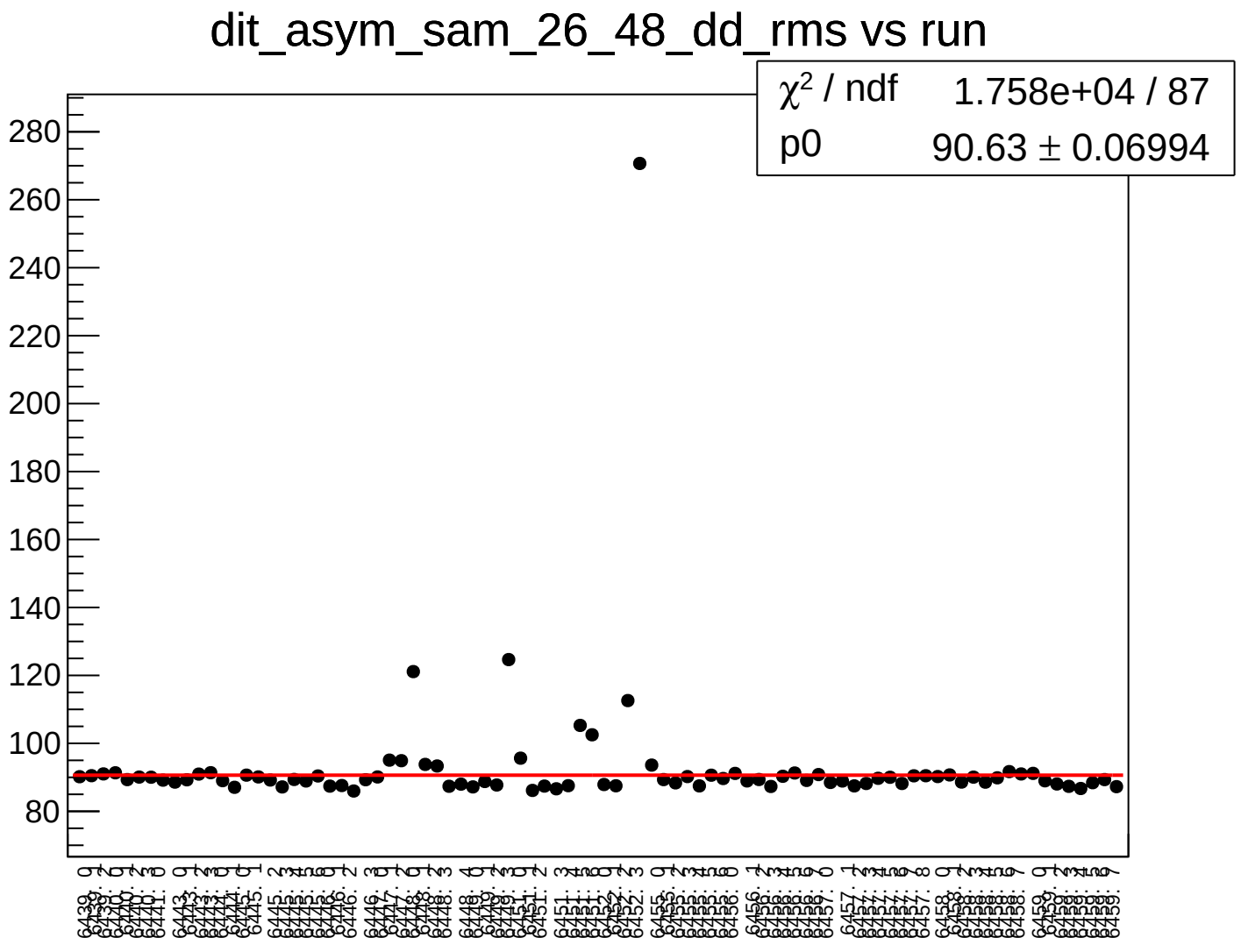

asym_sam_24_68_dd_mean vs run
χ² / ndf 69.65 / 87
p0 2918 ± 1189
pull
Entries 88
Mean 212
Std Dev 108.5

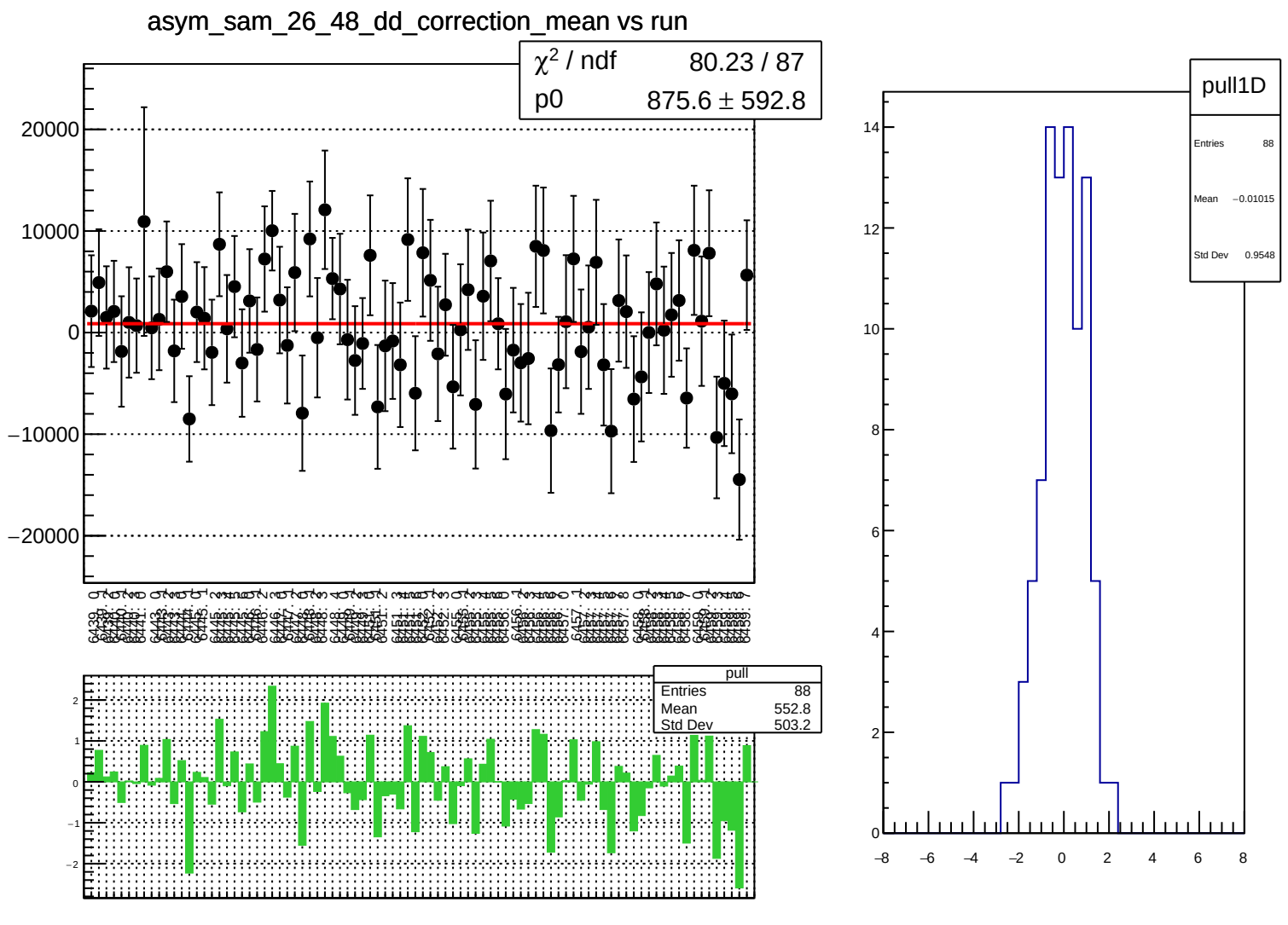

pull1D
Entries 88
Mean −0.005675
Std Dev 0.8896

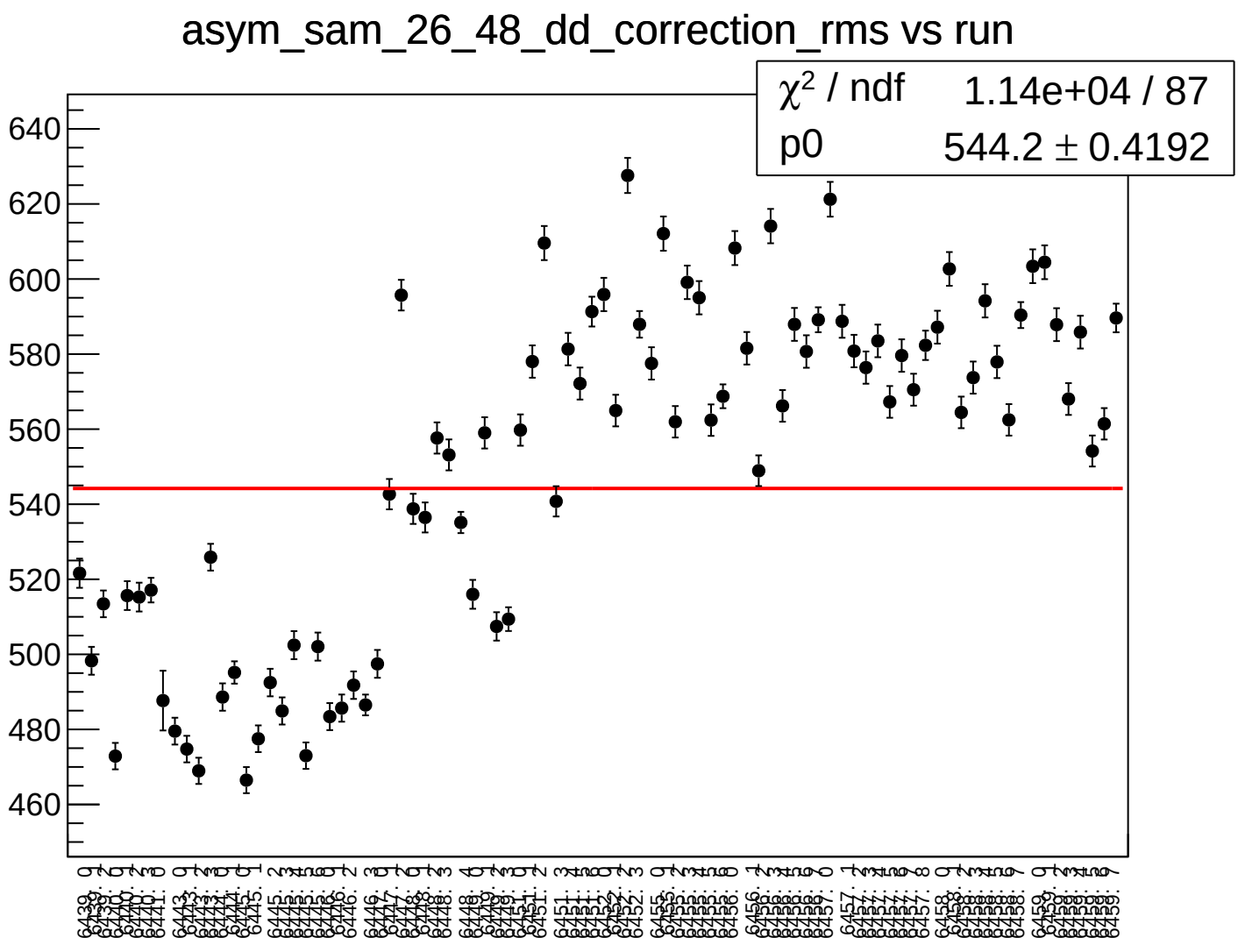

asym_sam_24_68_dd_rms vs run
χ² / ndf 2.093e+04 / 87
p0 1088 ± 0.8407
1600
1500
1400
1300
1200
1100
1000
900
800

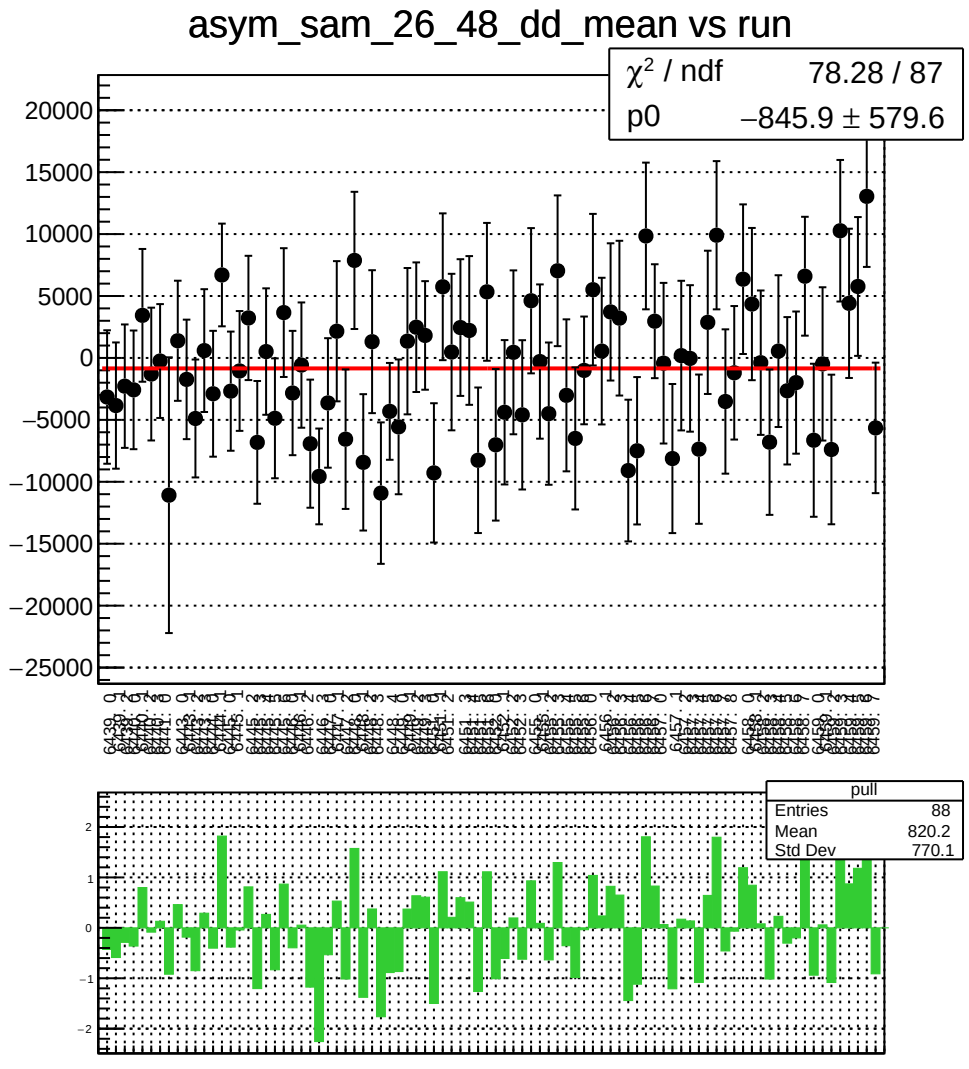

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 86.2 / 87
p0 6.549 ± 98.91
pull
Entries 88
Mean 334.6
Std Dev 292.2

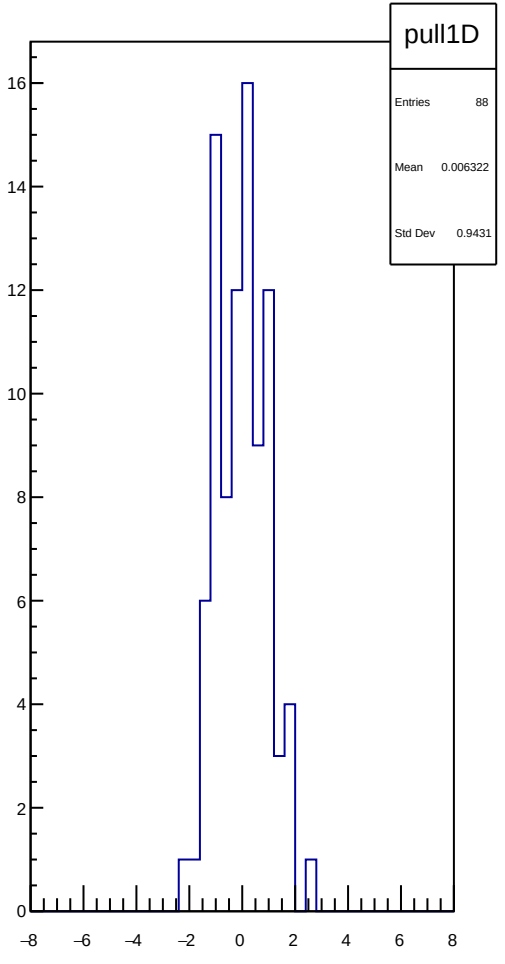

pull1D
Entries 88
Mean −0.007943
Std Dev 0.9897

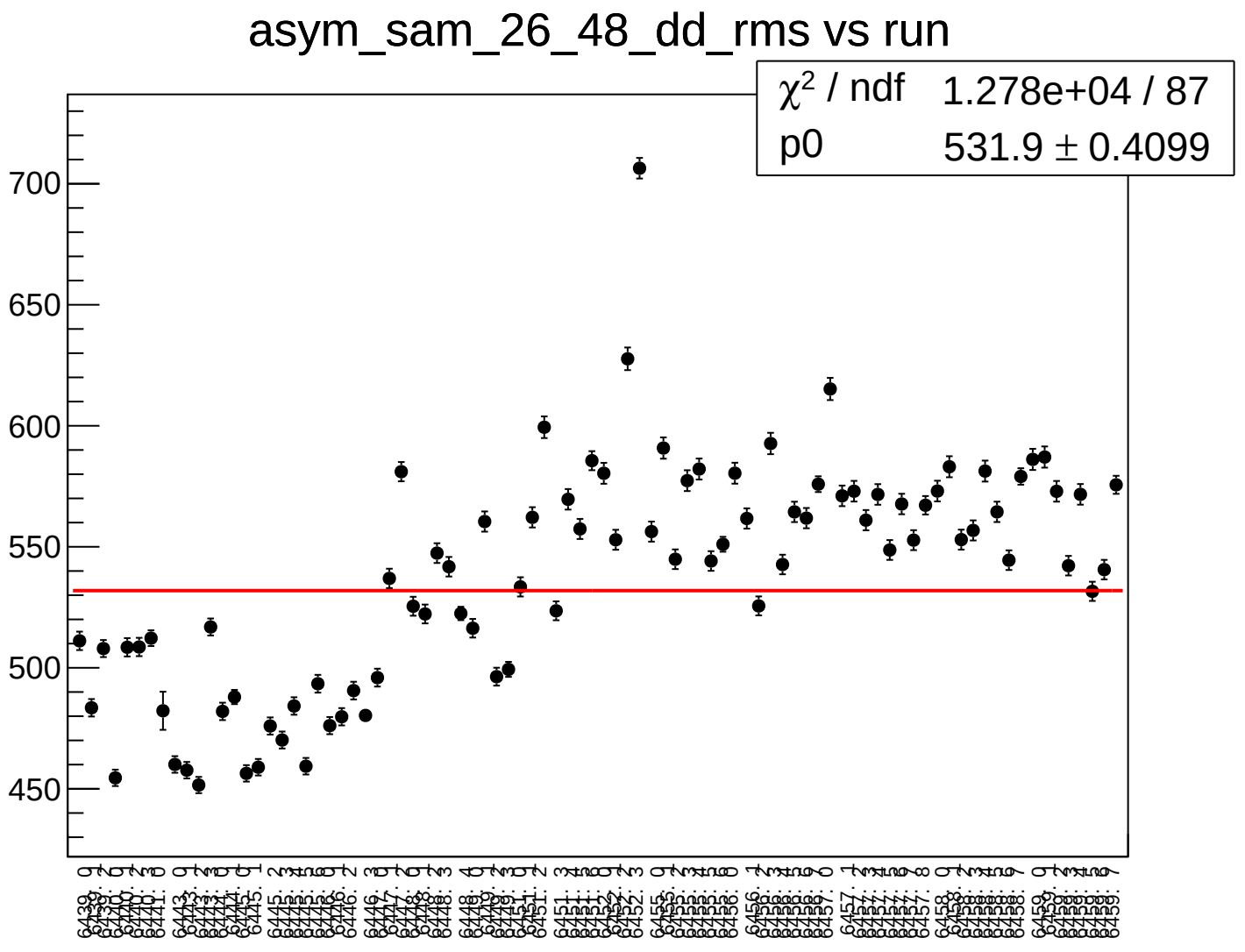

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.758e+04 / 87
p0 90.63 ± 0.06994
280
260
240
220
200
180
160
140
120
100
80

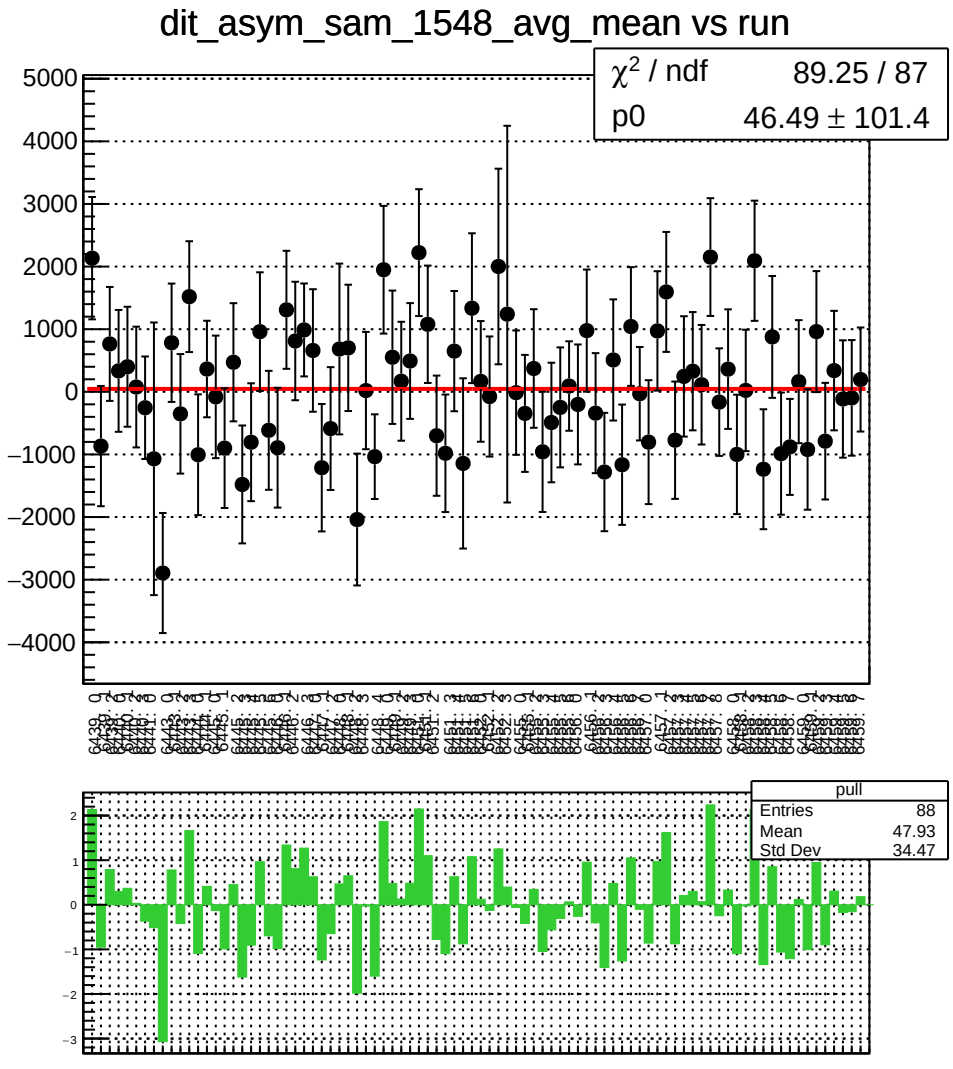

asym_sam_26_48_dd_correction_mean vs run
χ^2 / ndf 80.23 / 87
p0 875.6 ± 592.8
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 552.8
Std Dev 503.2
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01015
Std Dev 0.9548
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

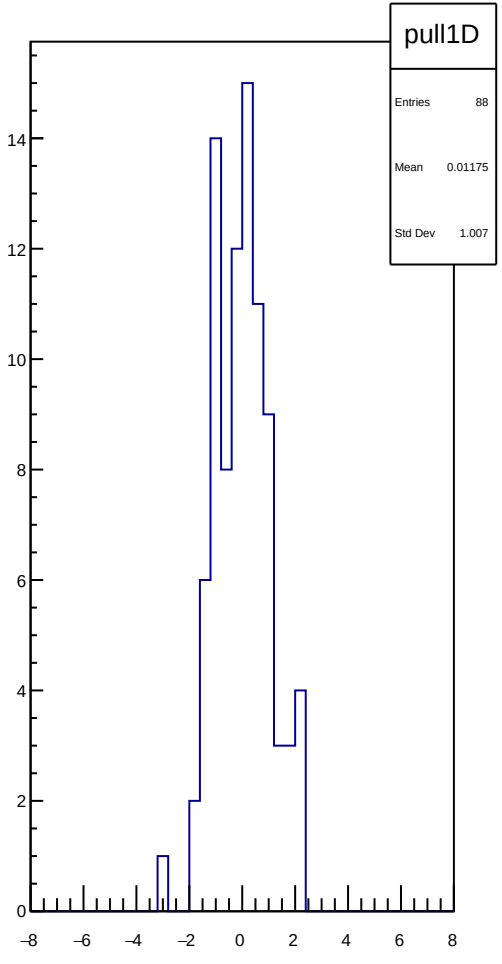

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 1.14e+04 / 87
p0 544.2 ± 0.4192
640
620
600
580
560
540
520
500
480
460

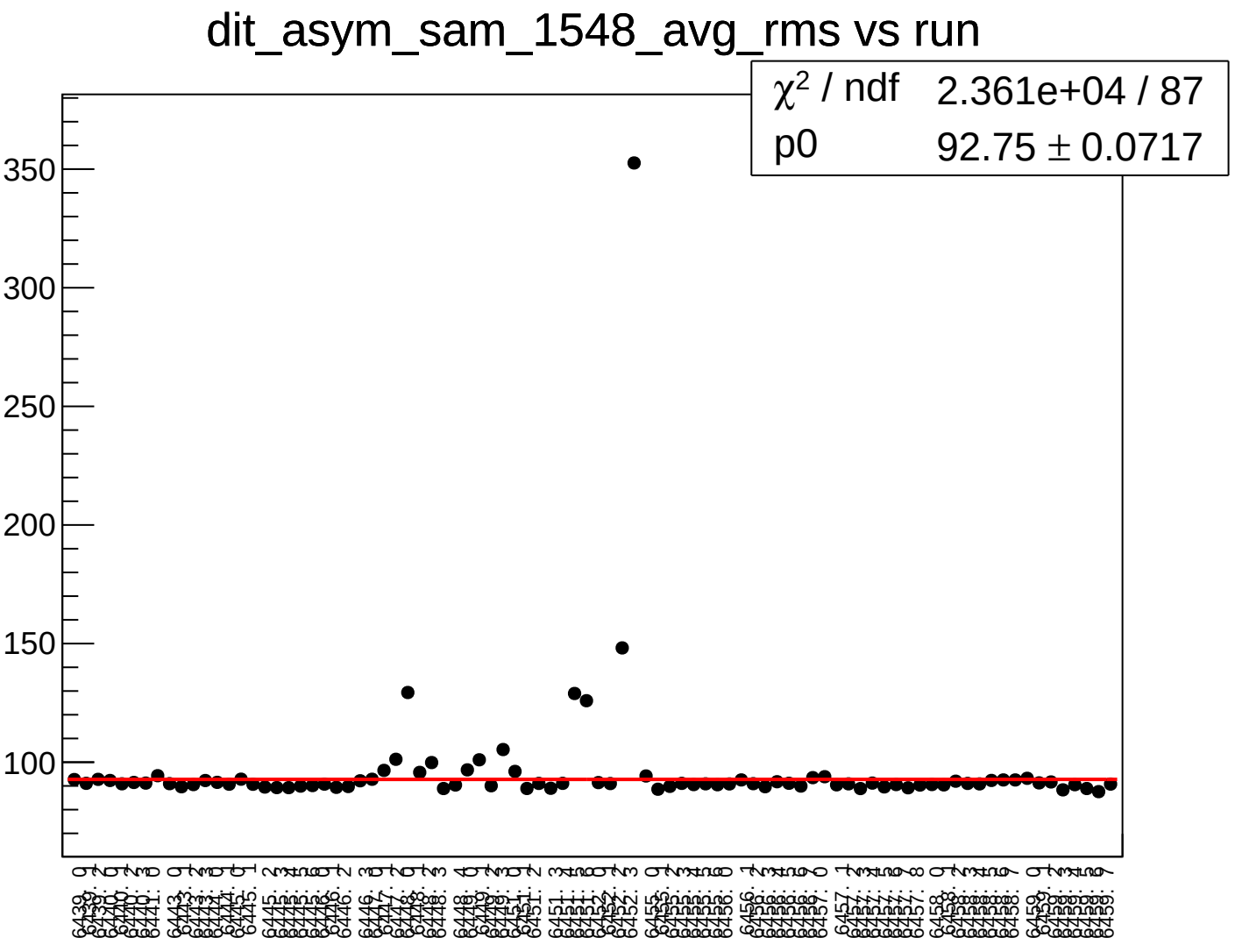

asym_sam_26_48_dd_mean vs run
χ² / ndf 78.28 / 87
p0 −845.9 ± 579.6
pull
Entries 88
Mean 820.2
Std Dev 770.1

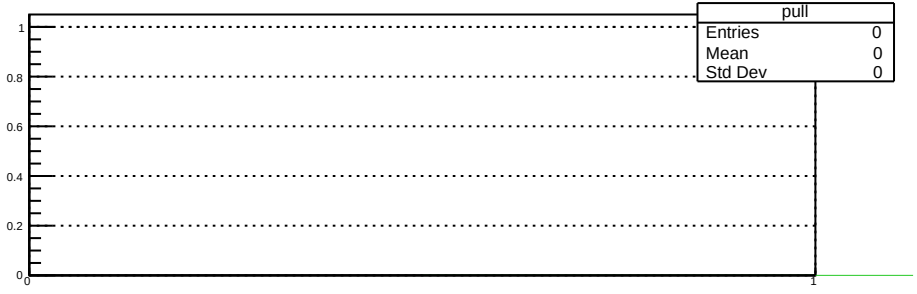

pull1D
Entries 88
Mean 0.006322
Std Dev 0.9431

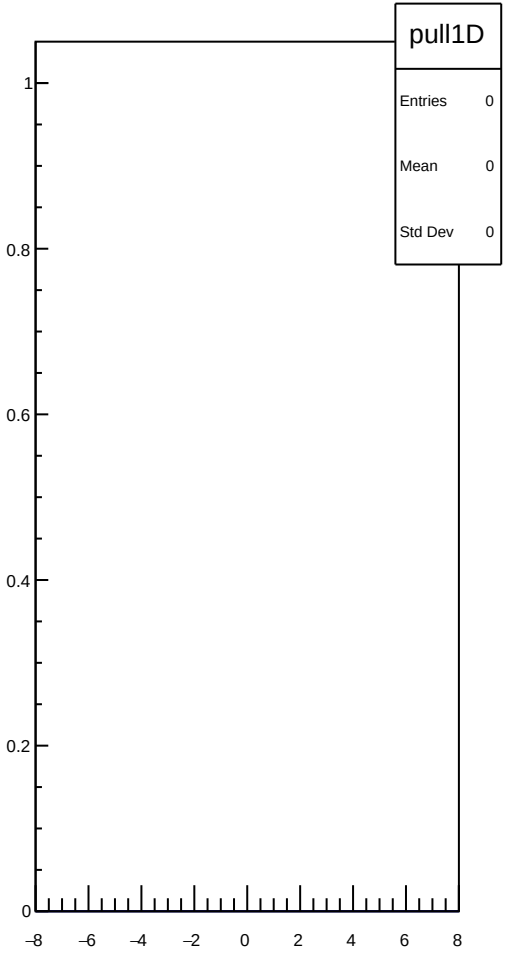

asym_sam_26_48_dd_rms vs run
χ² / ndf 1.278e+04 / 87
p0 531.9 ± 0.4099
700
650
600
550
500
450

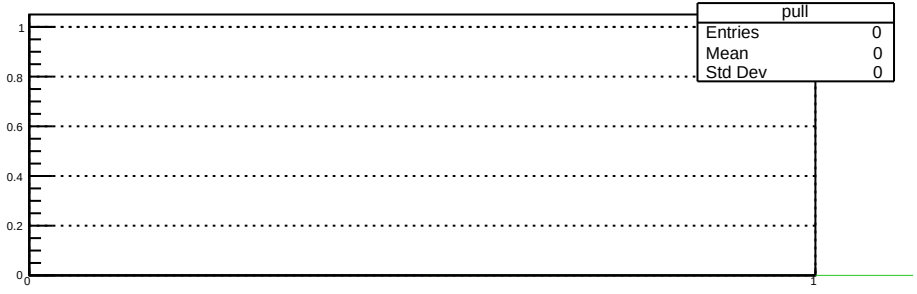

dit_asym_sam_1548_avg_mean vs run
χ^2 / ndf 89.25 / 87
p0 46.49 ± 101.4
pull
Entries 88
Mean 47.93
Std Dev 34.47

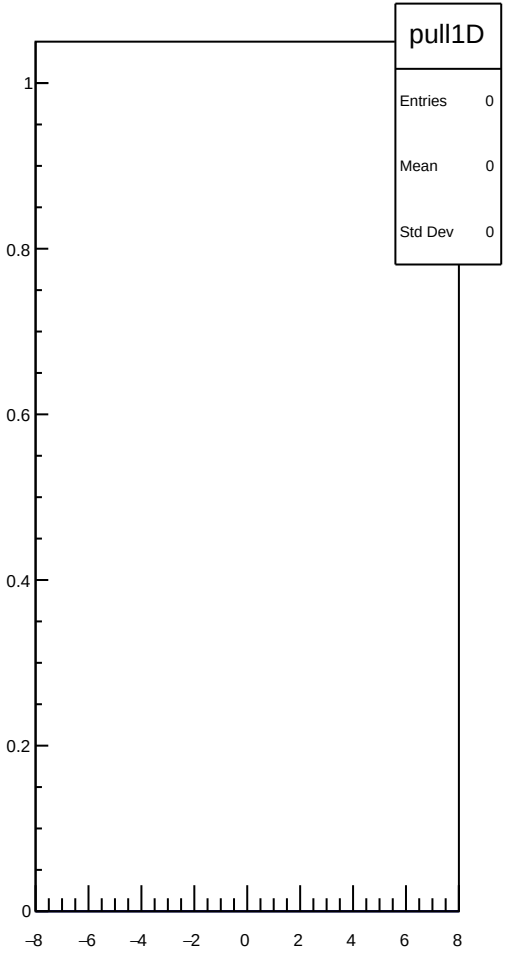

pull1D
Entries 88
Mean 0.01175
Std Dev 1.007

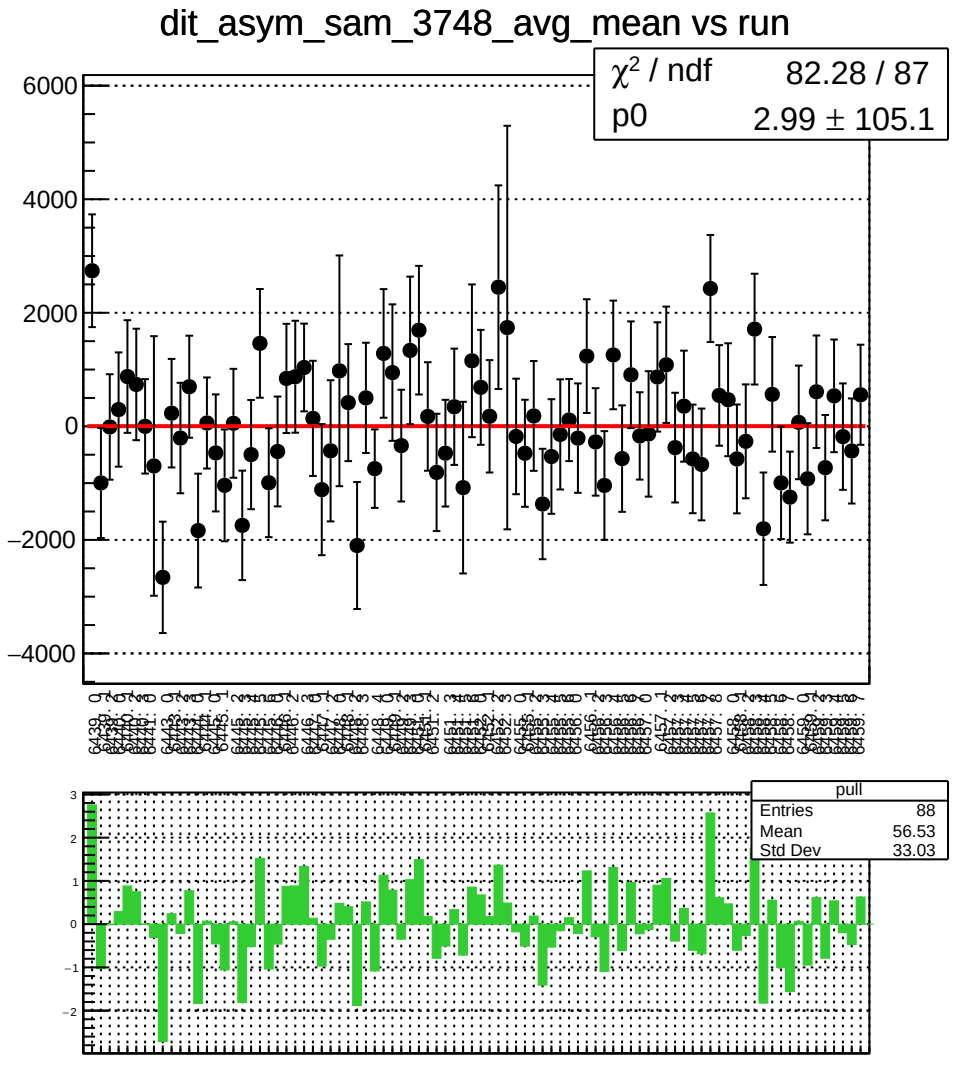

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2.361e+04 / 87
p0 92.75 ± 0.0717
350
300
250
200
150
100

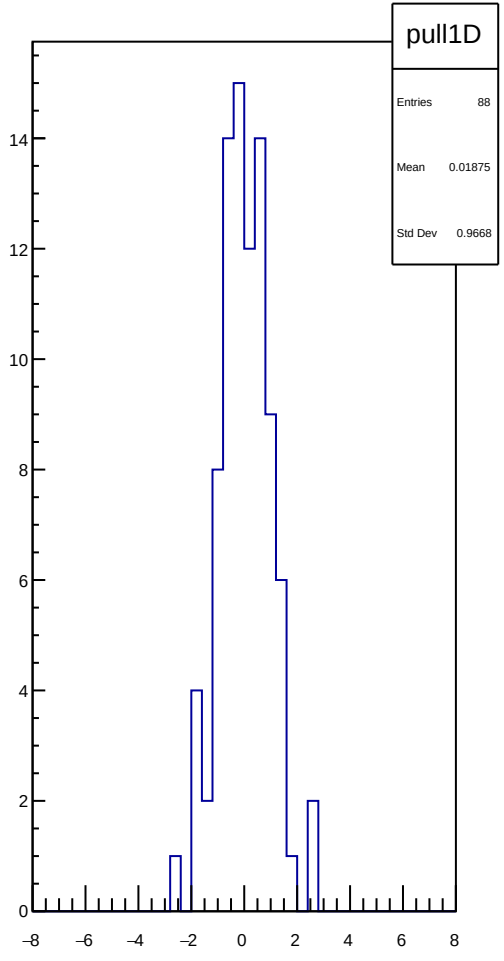

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

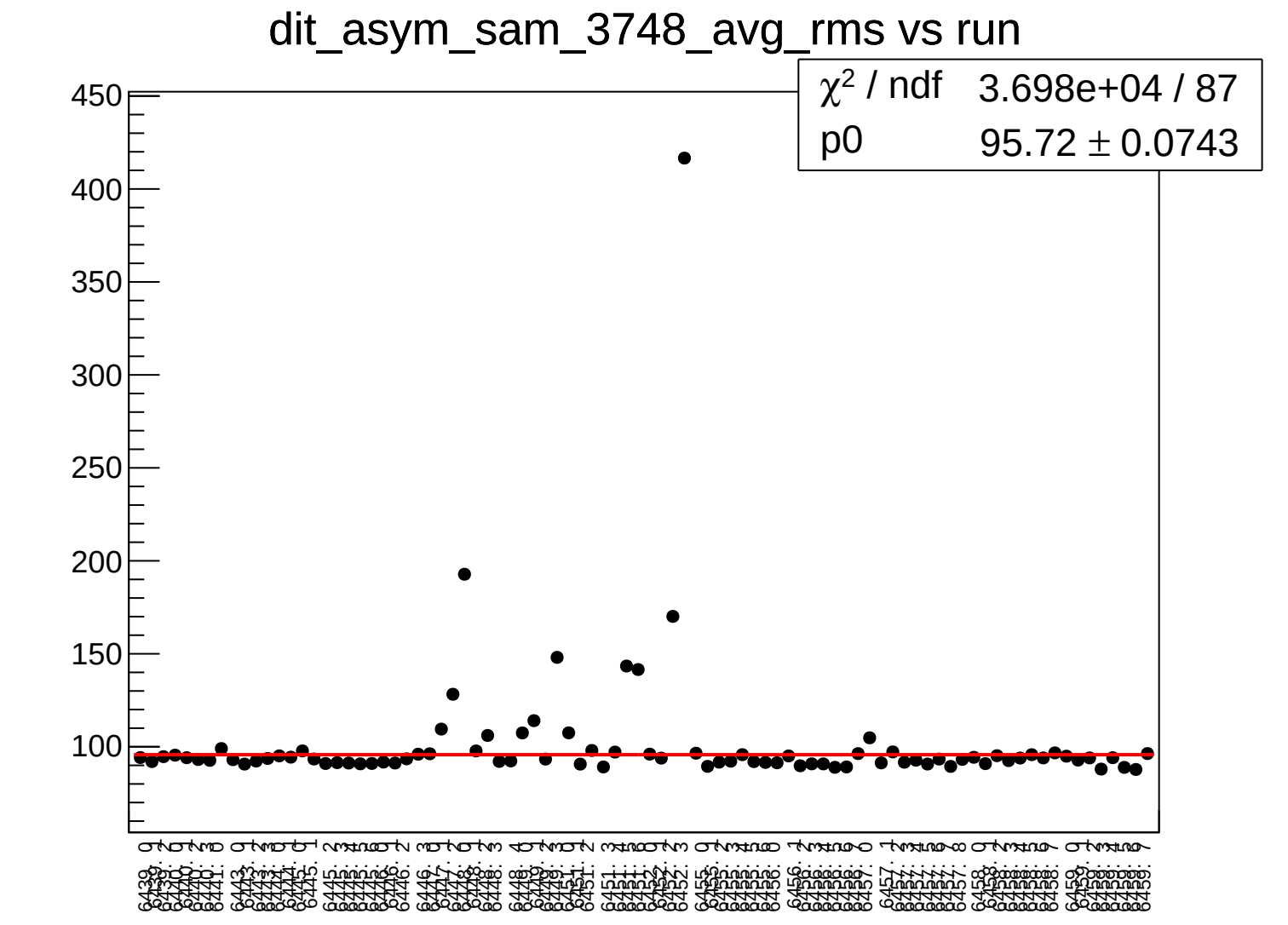

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

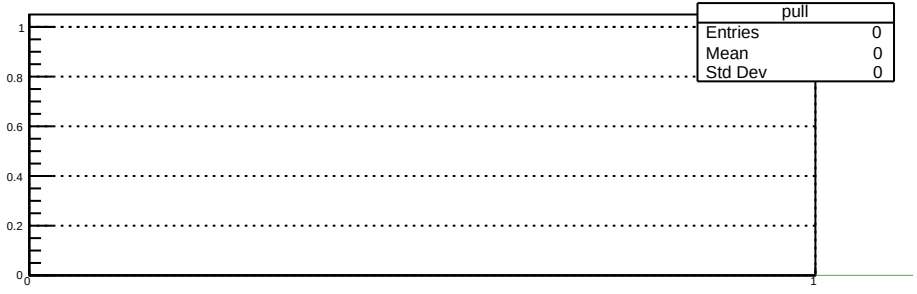

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

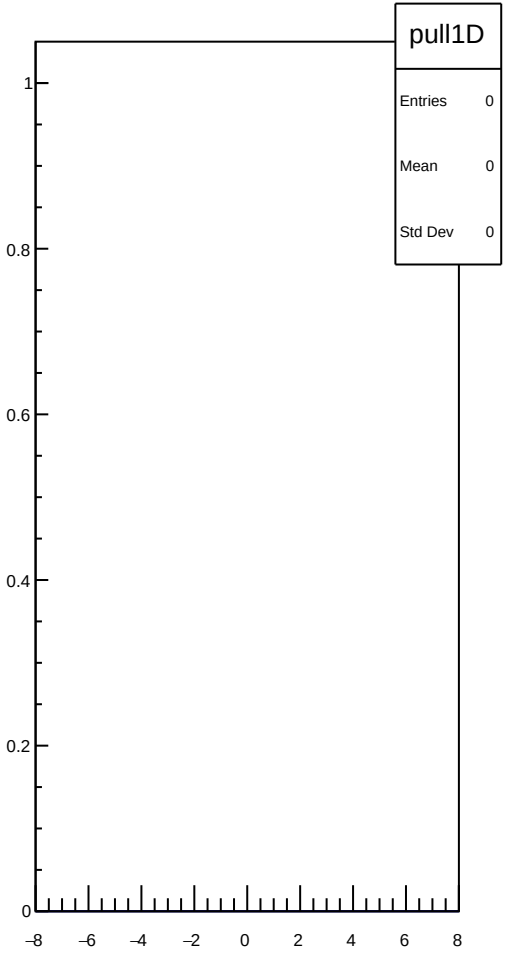

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

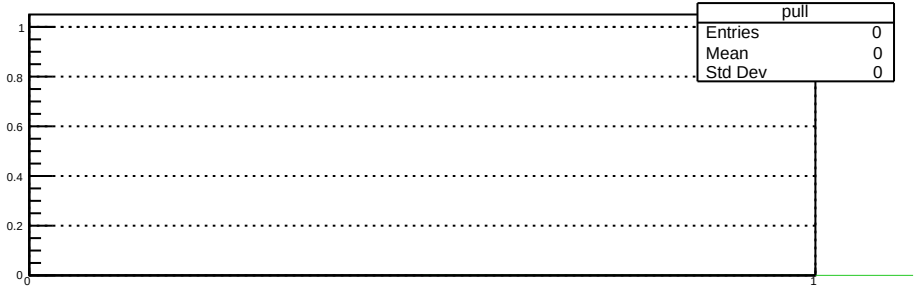

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 82.28 / 87
p0 2.99 ± 105.1
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 56.53
Std Dev 33.03
3
2
1
0
−1
−2

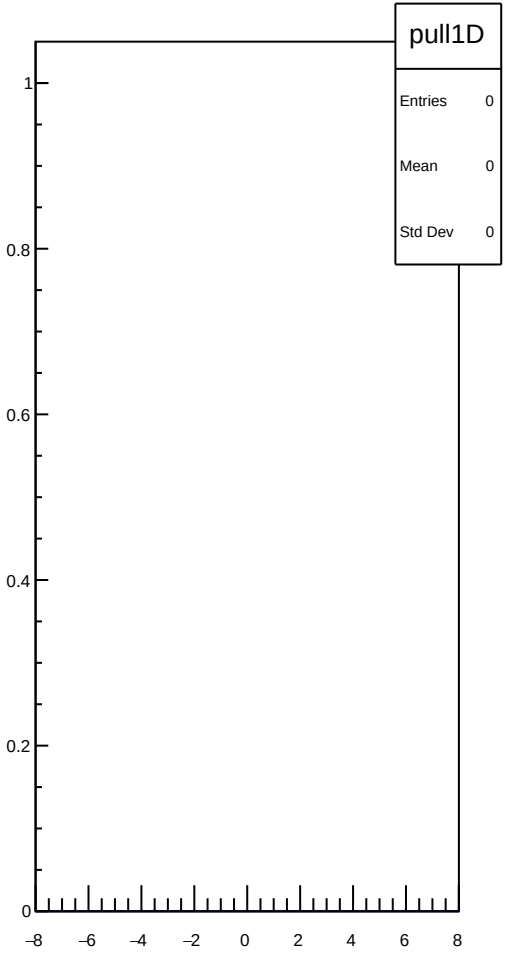

pull1D
Entries 88
Mean 0.01875
Std Dev 0.9668
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

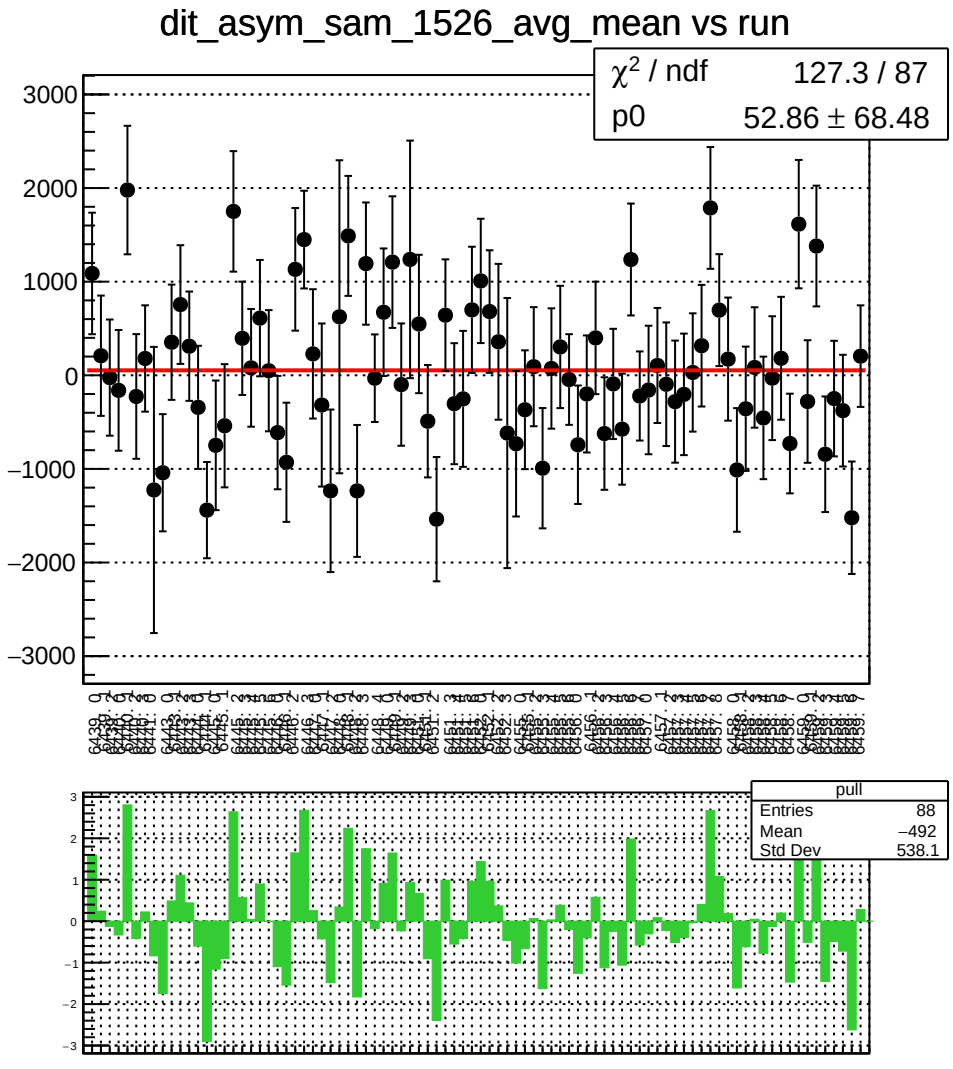

dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 3.698e+04 / 87
p0 95.72 ± 0.0743
450
400
350
300
250
200
150
100

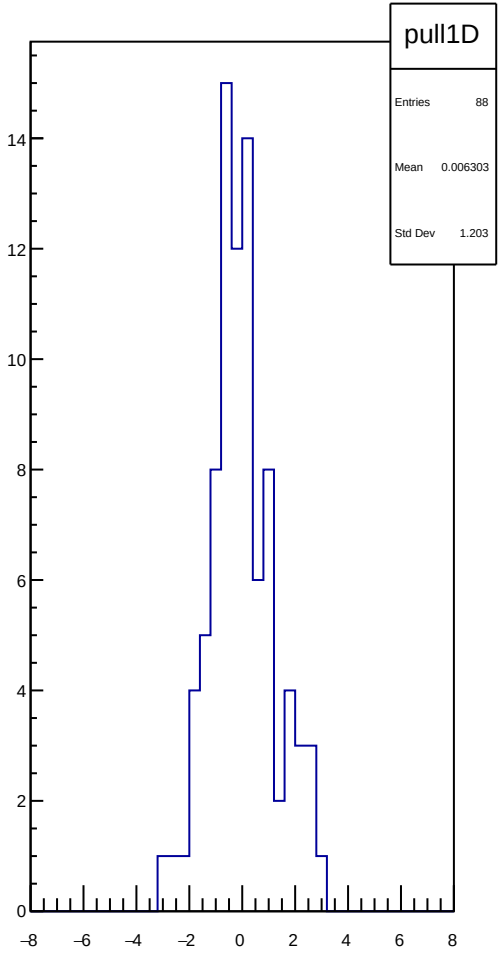

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

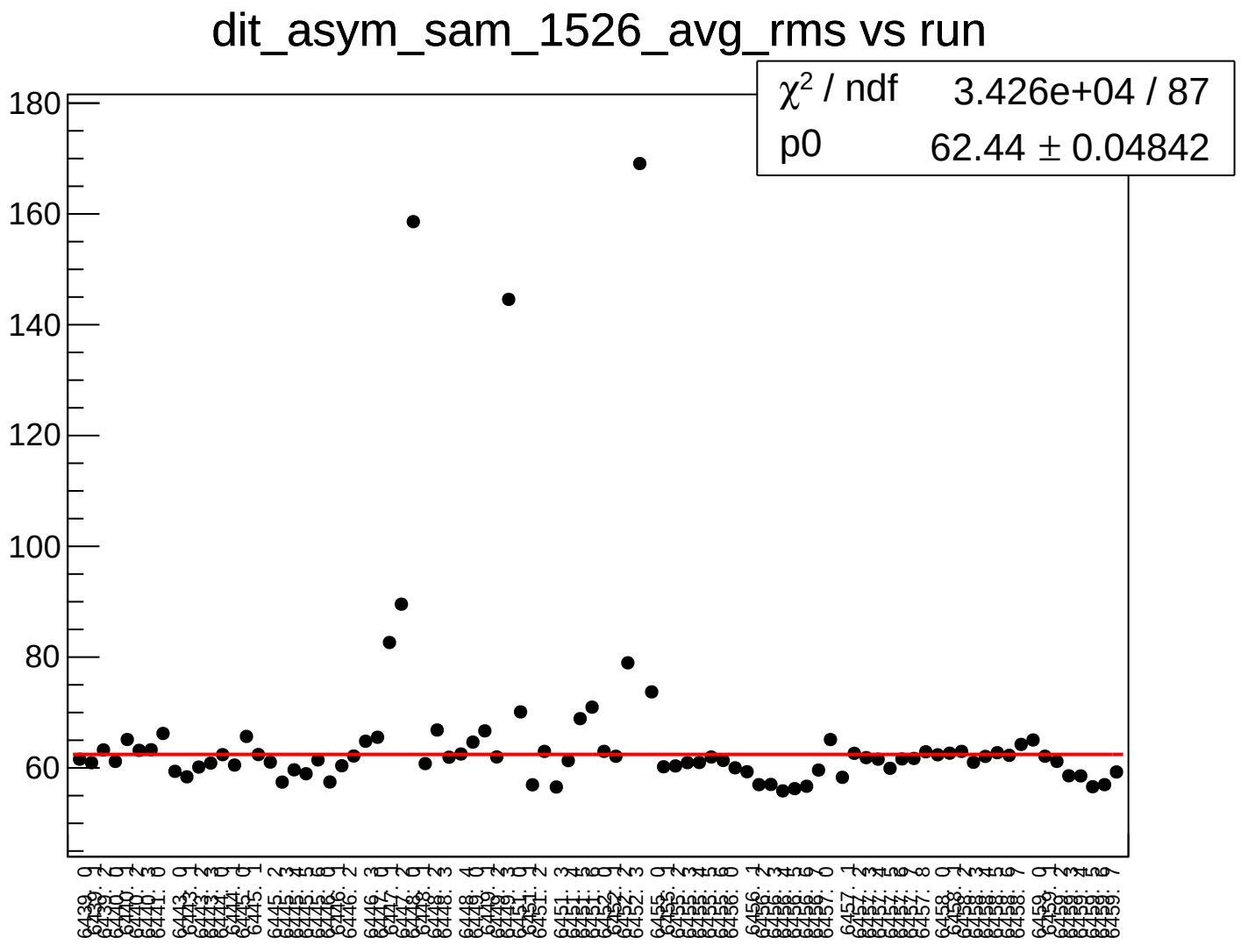

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

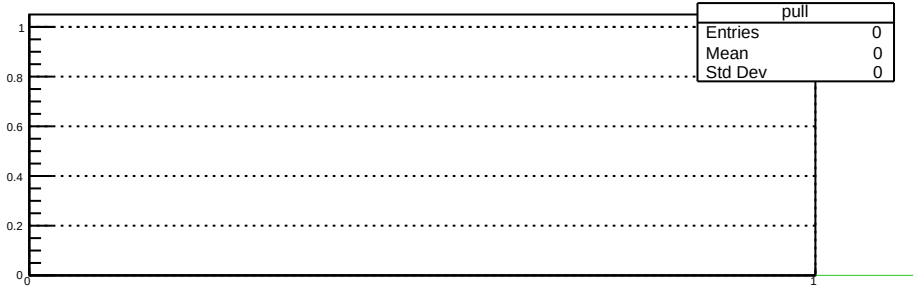

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

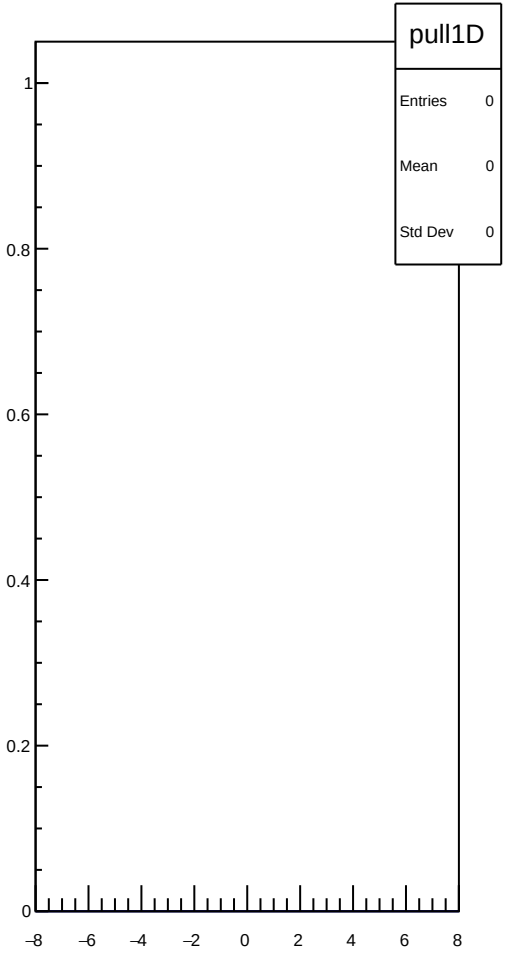

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

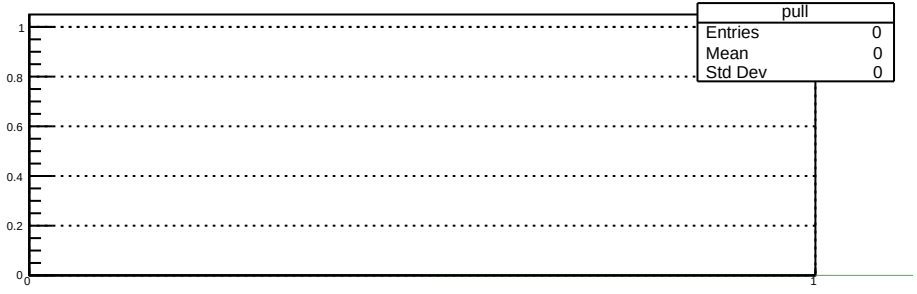

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 127.3 / 87
p0 52.86 ± 68.48
pull
Entries 88
Mean −492
Std Dev 538.1

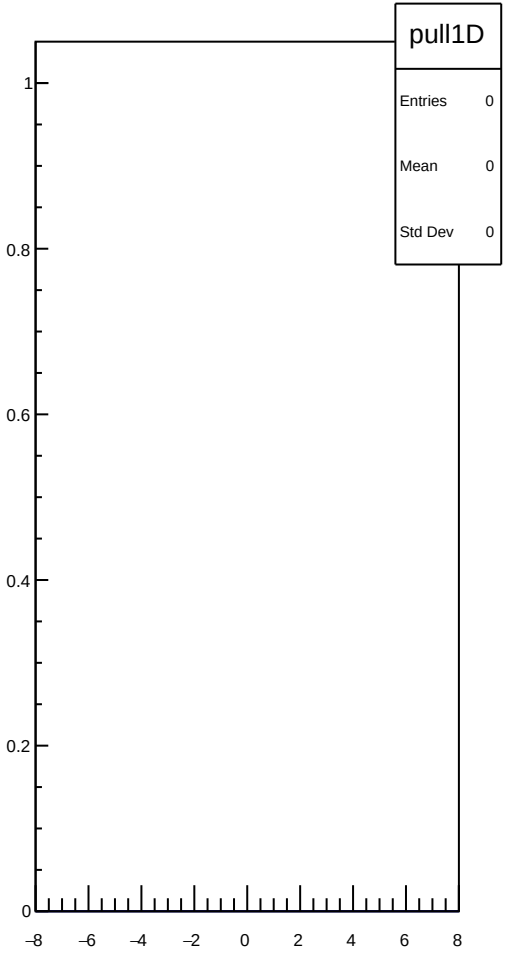

pull1D
Entries 88
Mean 0.006303
Std Dev 1.203

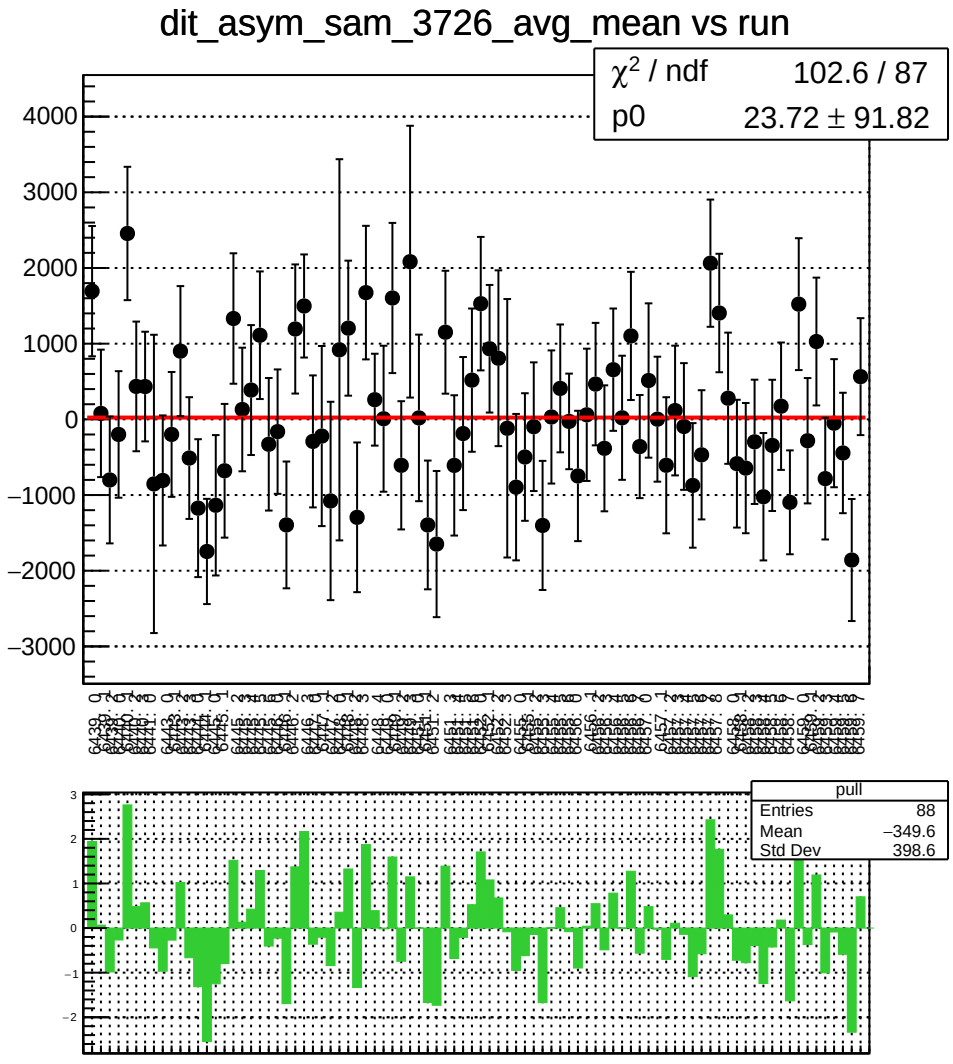

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3.426e+04 / 87
p0 62.44 ± 0.04842
180
160
140
120
100
80
60

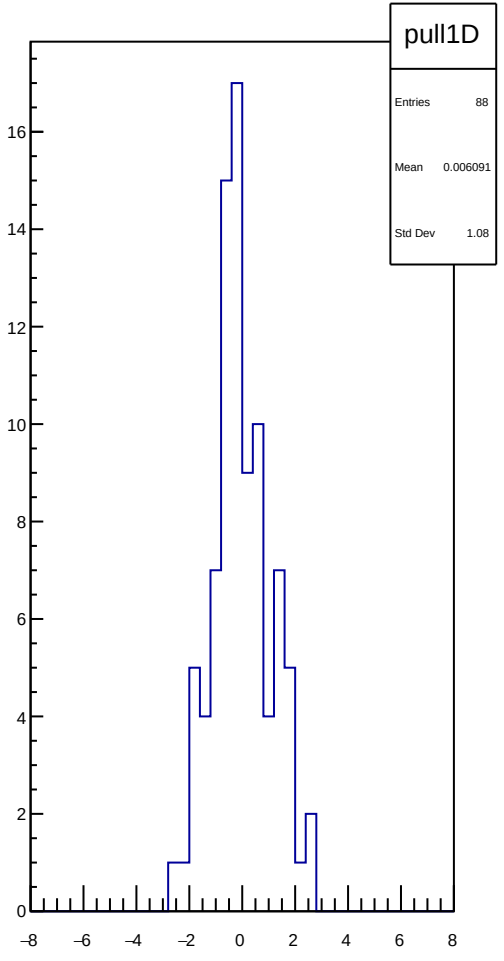

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

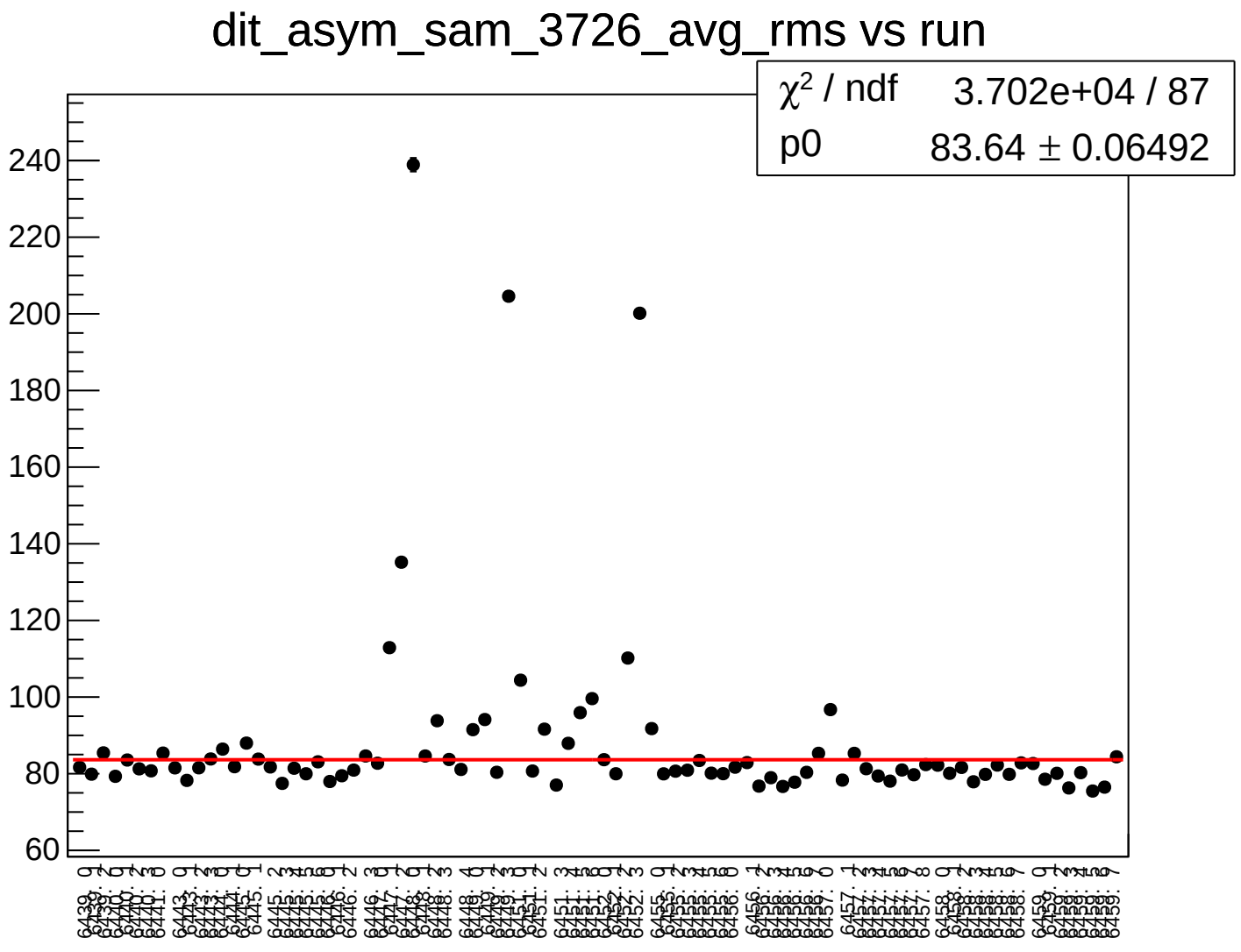

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

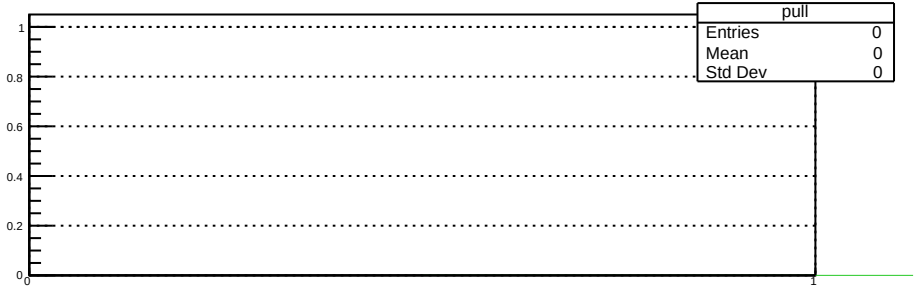

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

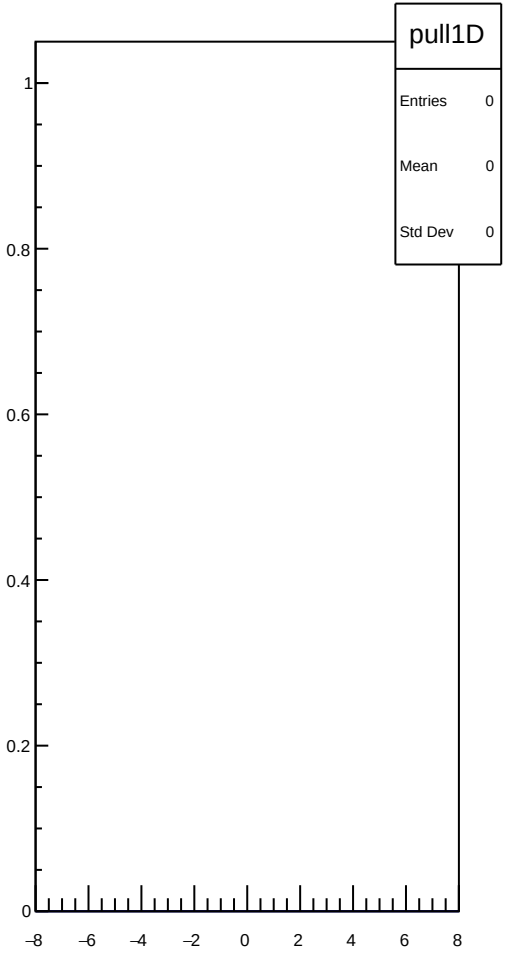

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

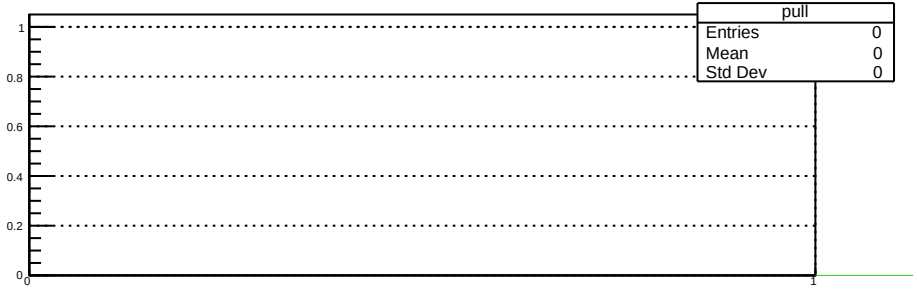

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 102.6 / 87
p0 23.72 ± 91.82
pull
Entries 88
Mean −349.6
Std Dev 398.6

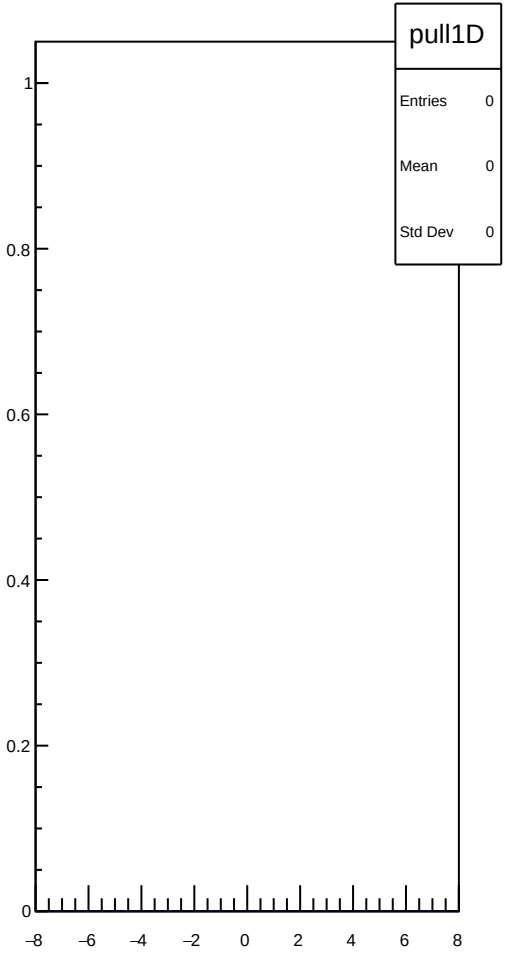

pull1D
Entries 88
Mean 0.006091
Std Dev 1.08

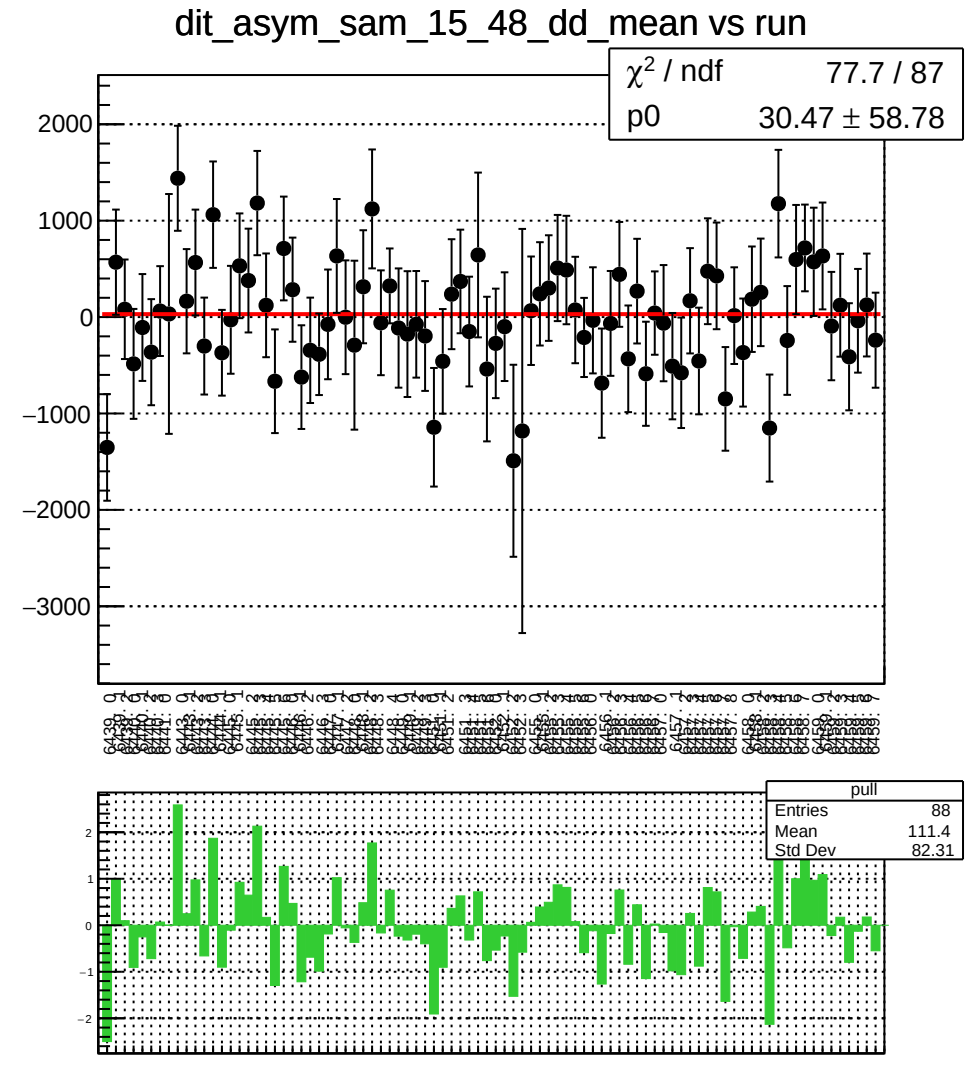

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 3.702e+04 / 87
p0 83.64 ± 0.06492
240
220
200
180
160
140
120
100
80
60

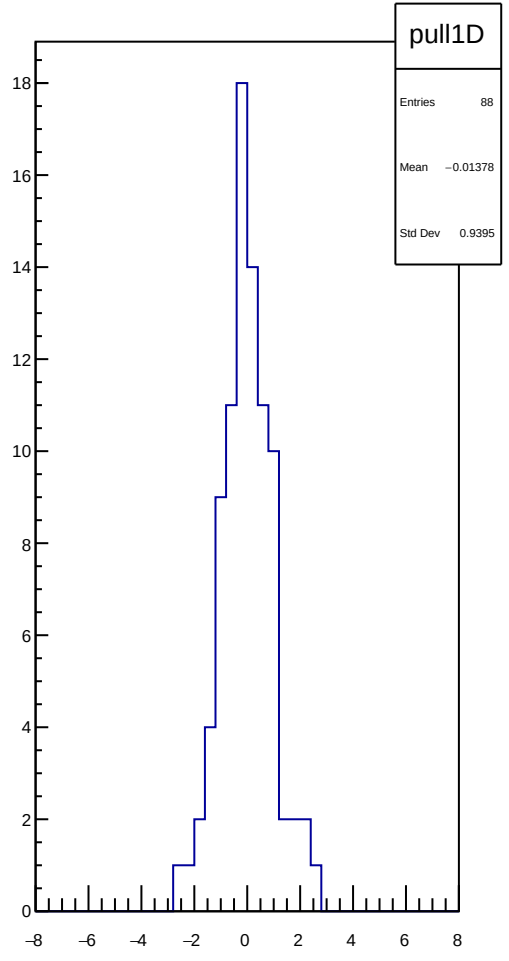

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

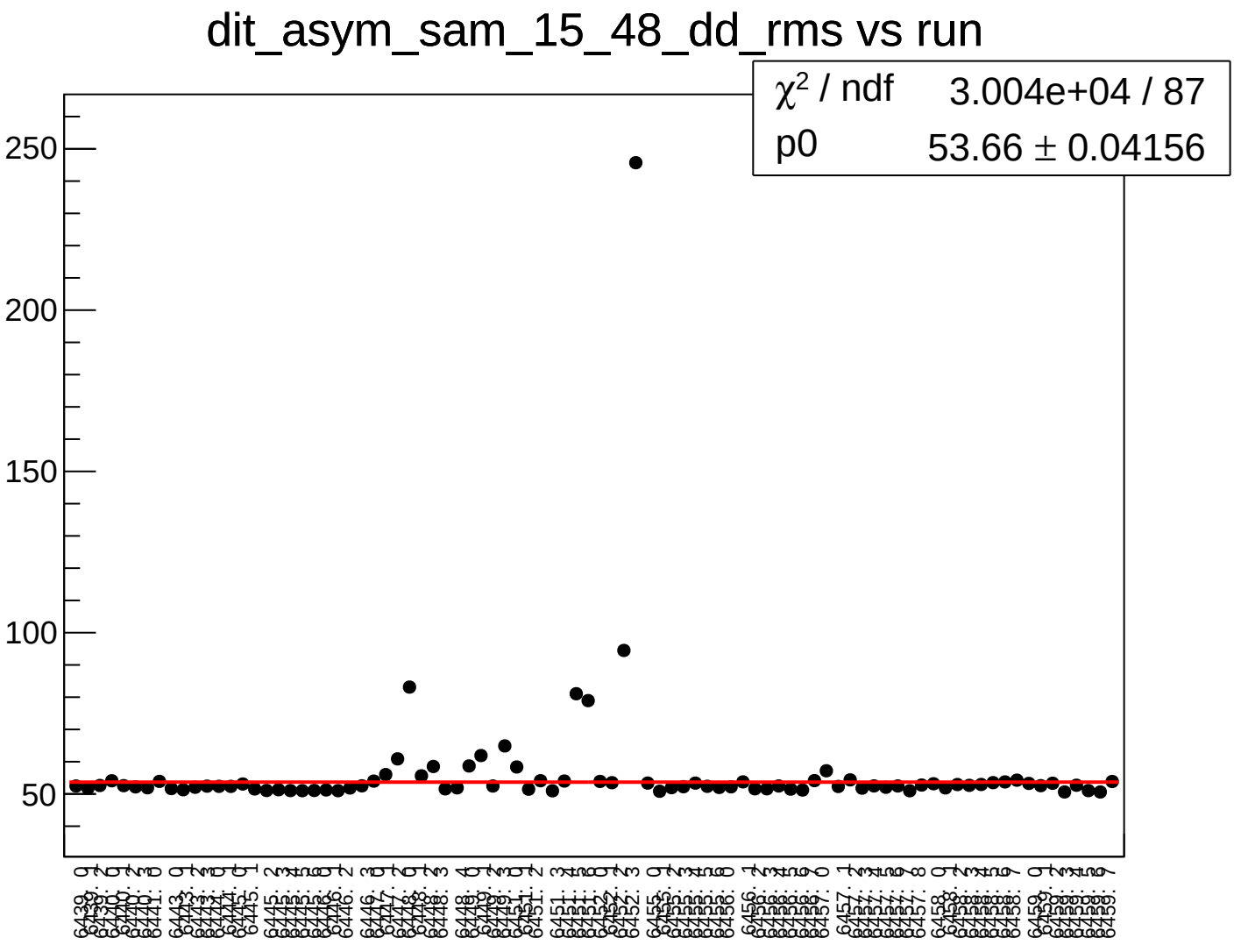

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

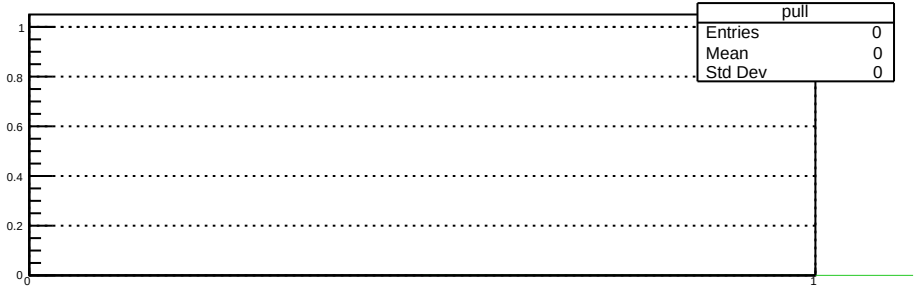

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

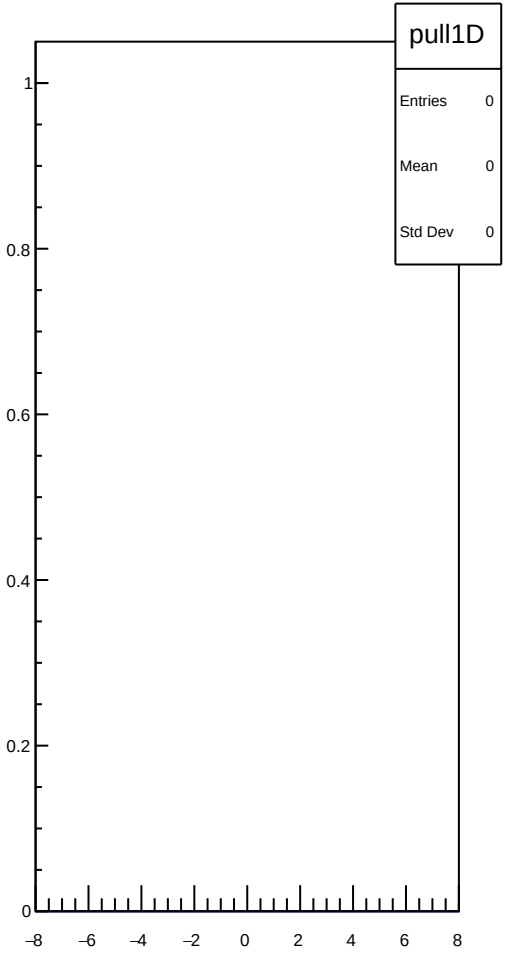

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

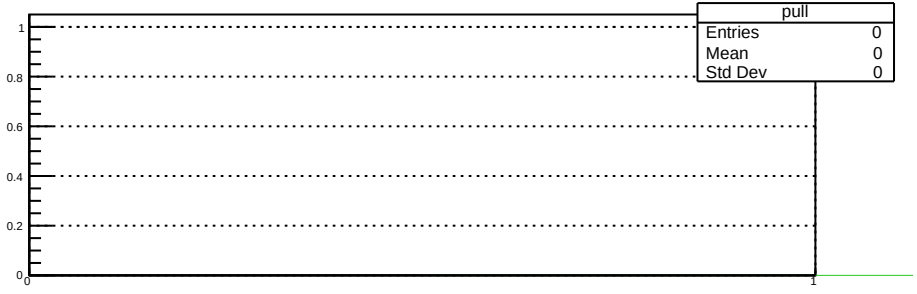

dit_asym_sam_15_48_dd_mean vs run
χ^2 / ndf 77.7 / 87
p0 30.47 ± 58.78
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 111.4
Std Dev 82.31
2
1
0
−1
−2

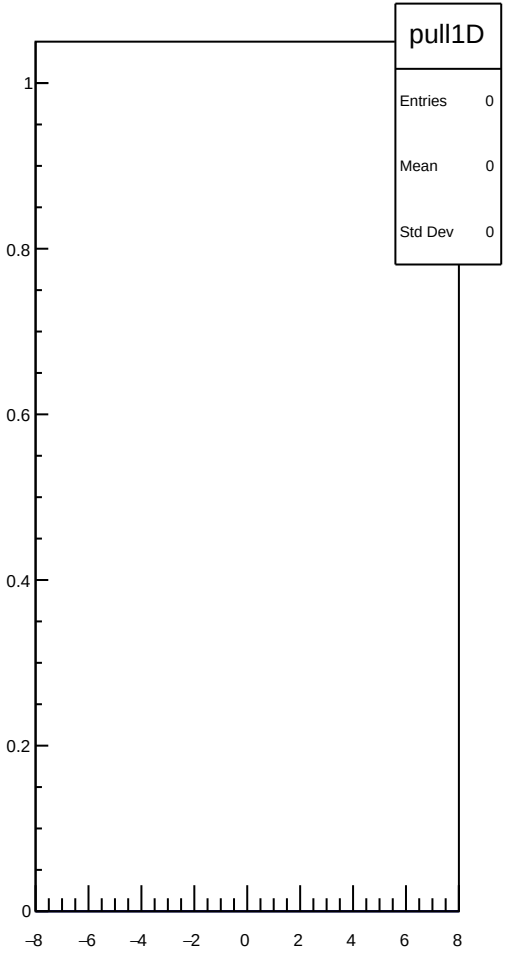

pull1D
Entries 88
Mean −0.01378
Std Dev 0.9395
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

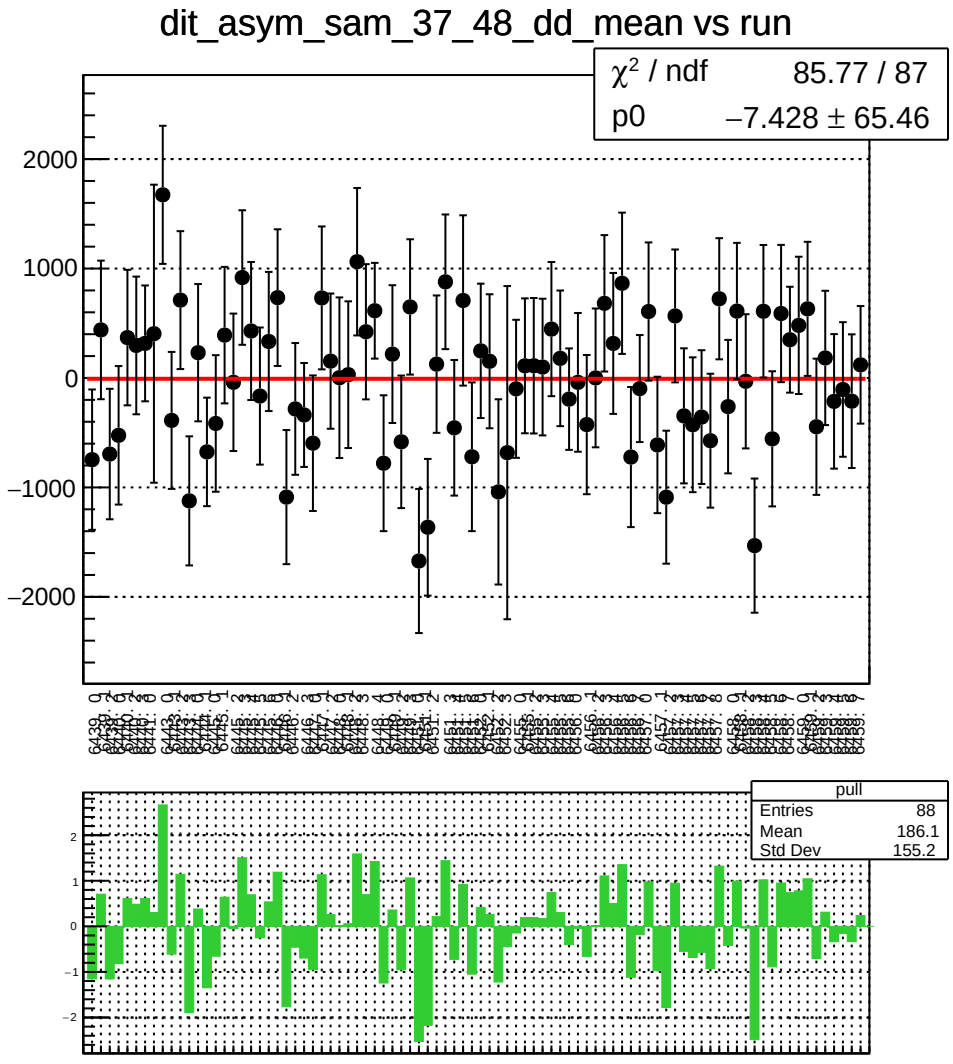

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 3.004e+04 / 87
p0 53.66 ± 0.04156
250
200
150
100
50

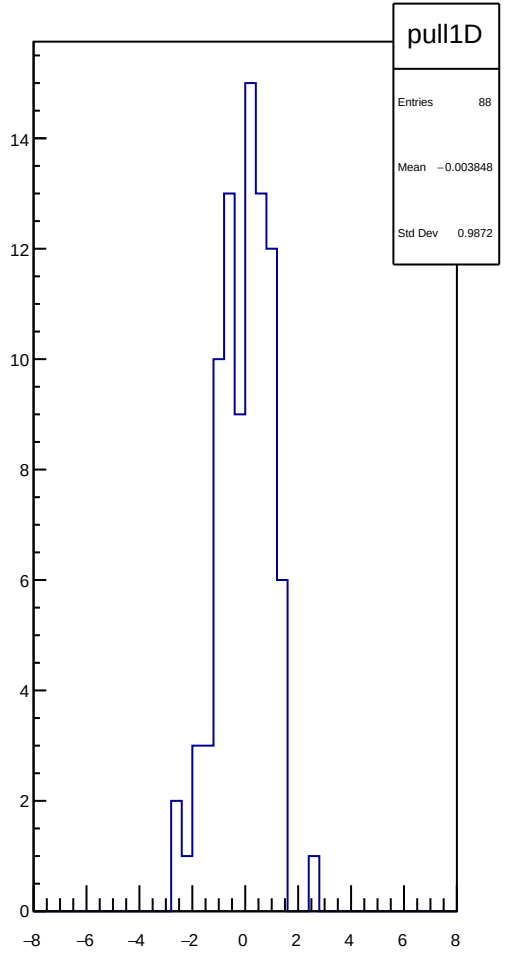

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

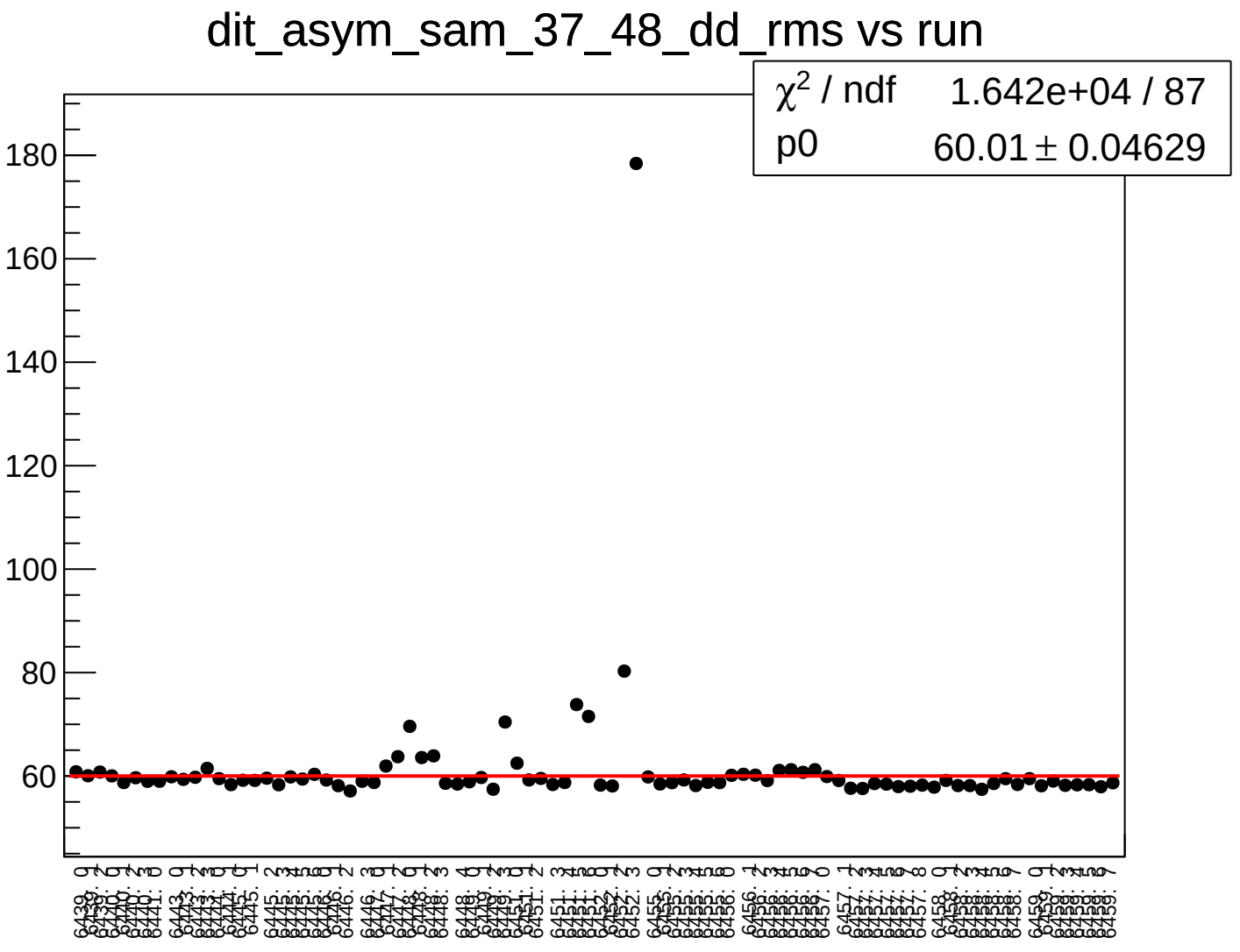

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

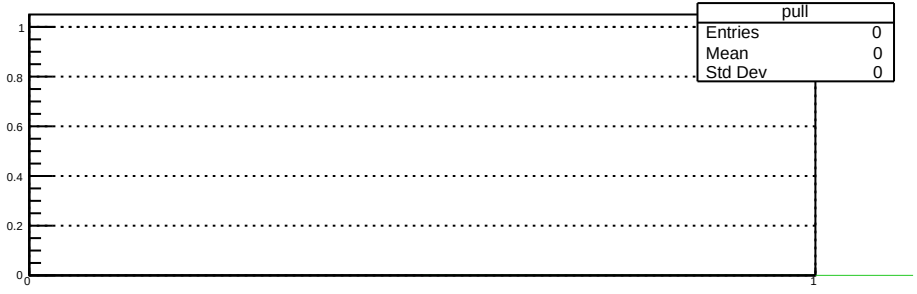

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

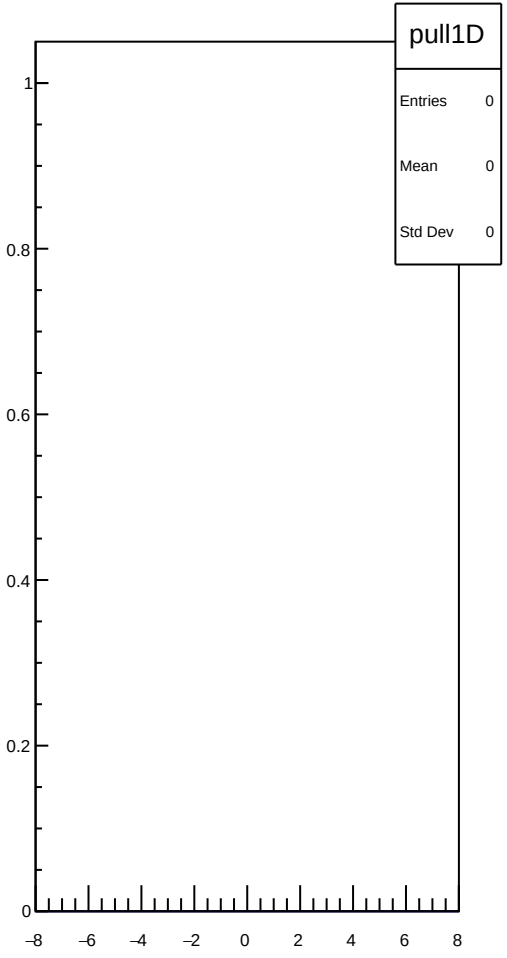

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

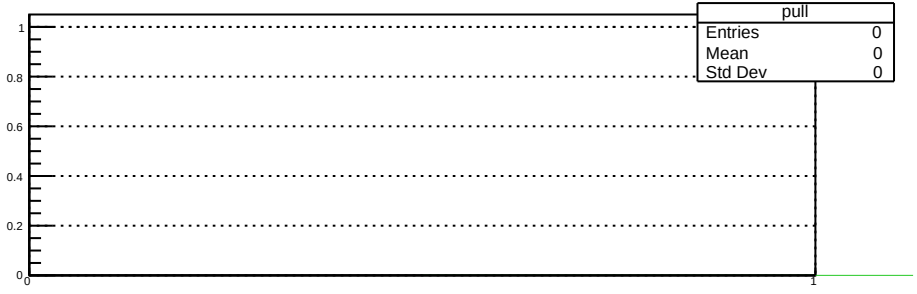

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 85.77 / 87
p0 −7.428 ± 65.46
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 186.1
Std Dev 155.2
2
1
0
−1
−2

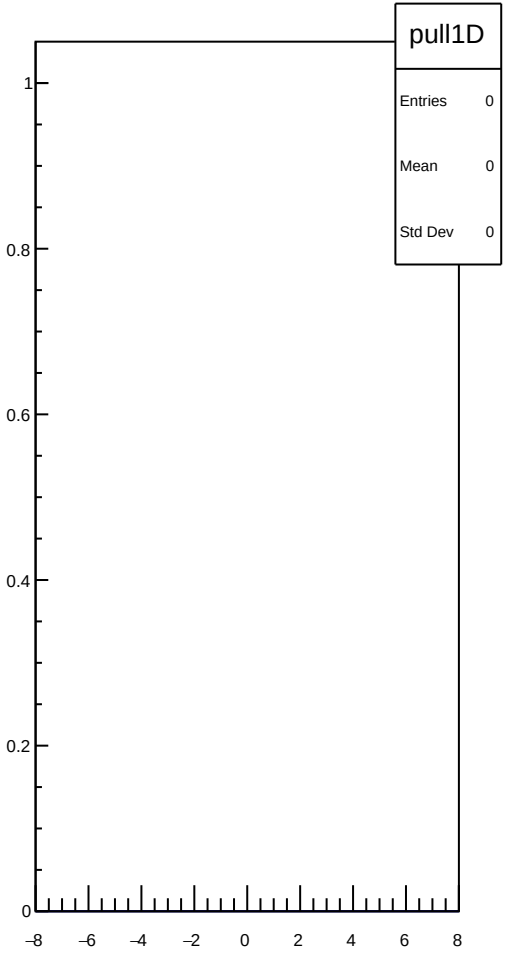

pull1D
Entries 88
Mean −0.003848
Std Dev 0.9872
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

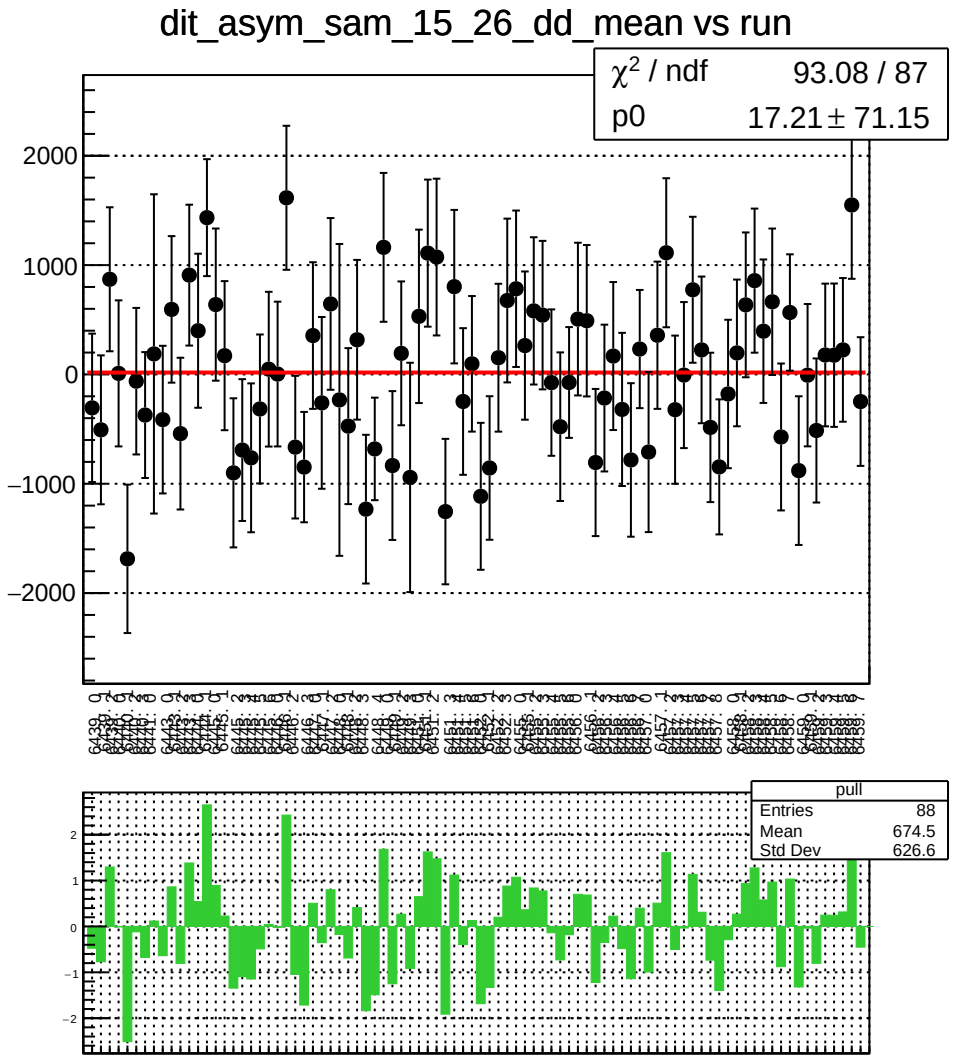

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.642e+04 / 87
p0 60.01 ± 0.04629
180
160
140
120
100
80
60

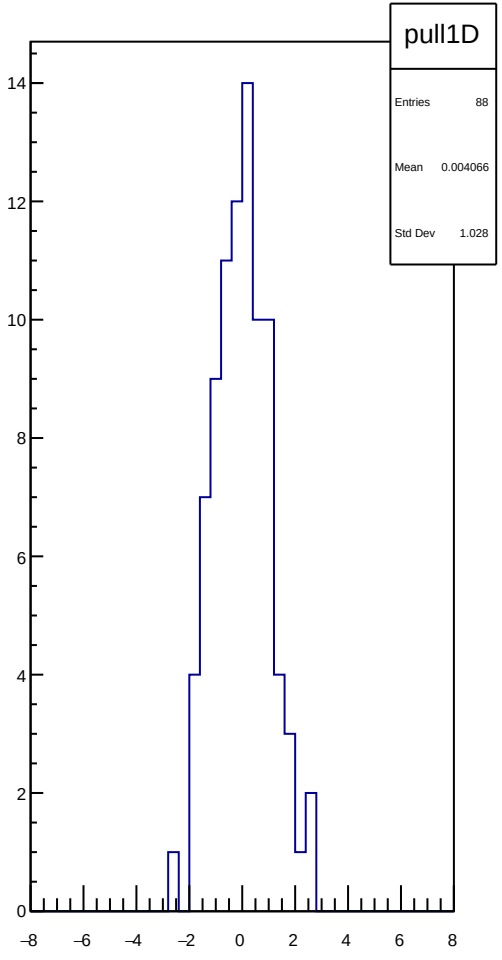

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

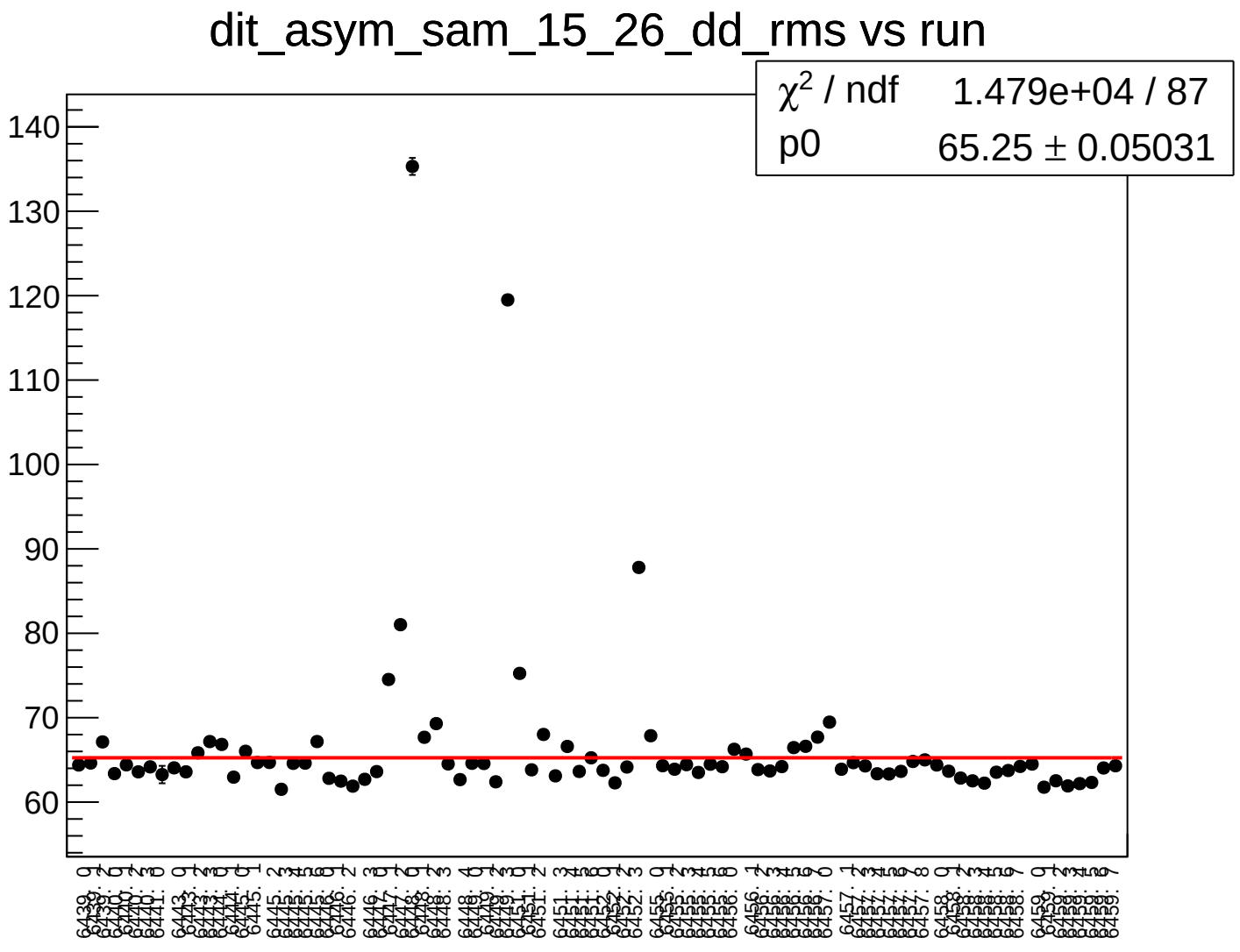

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

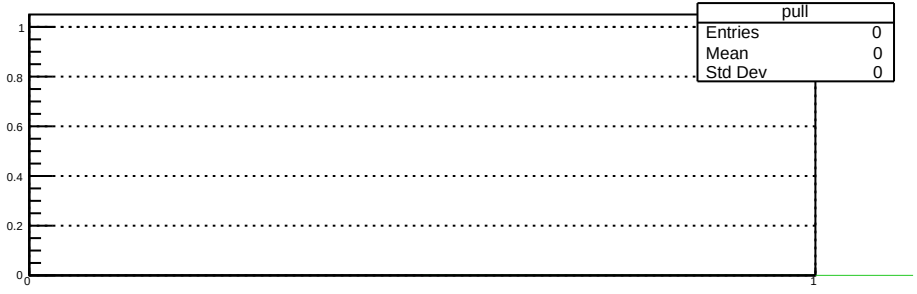

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

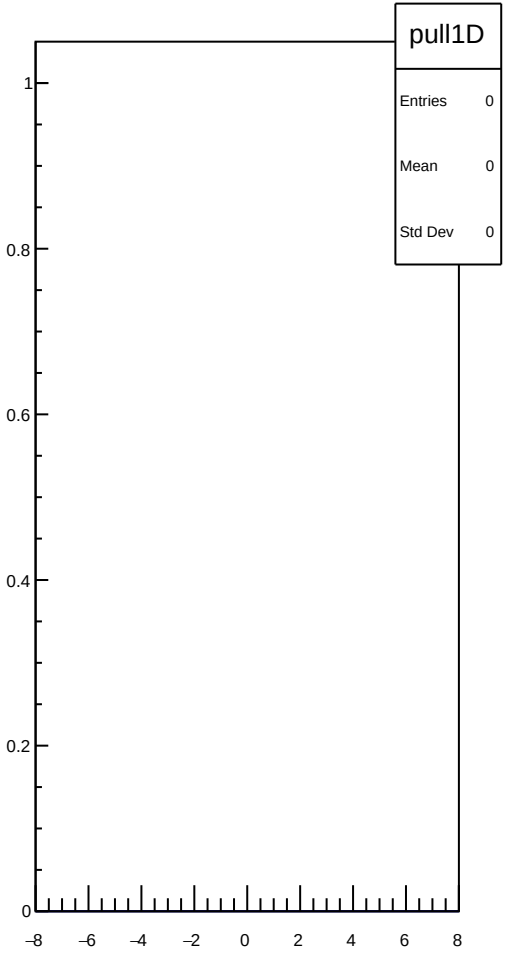

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

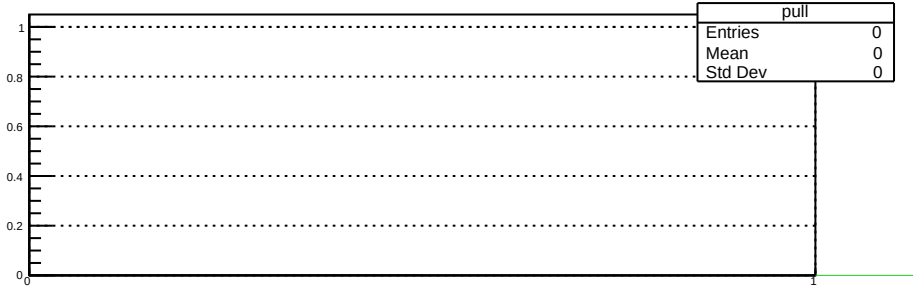

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 93.08 / 87
p0 17.21 ± 71.15
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 674.5
Std Dev 626.6
2
1
0
−1
−2

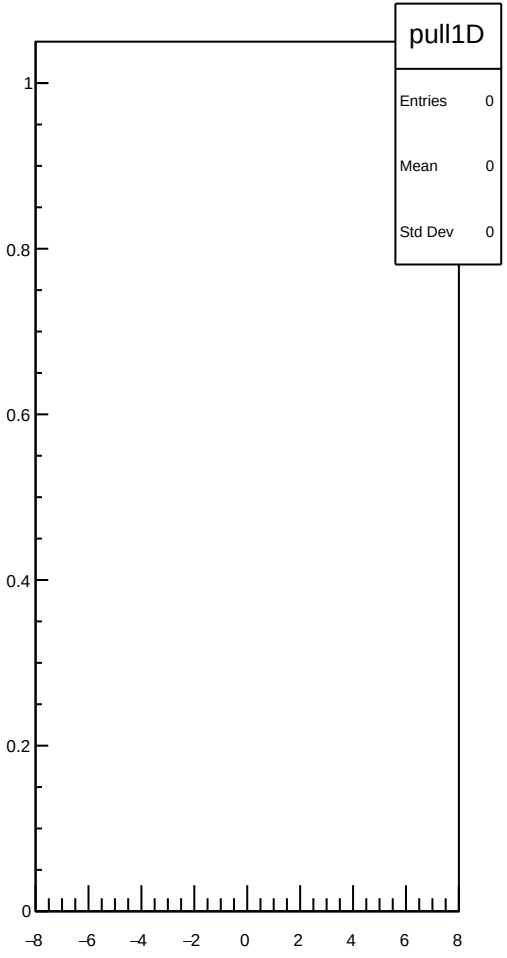

pull1D
Entries 88
Mean 0.004066
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

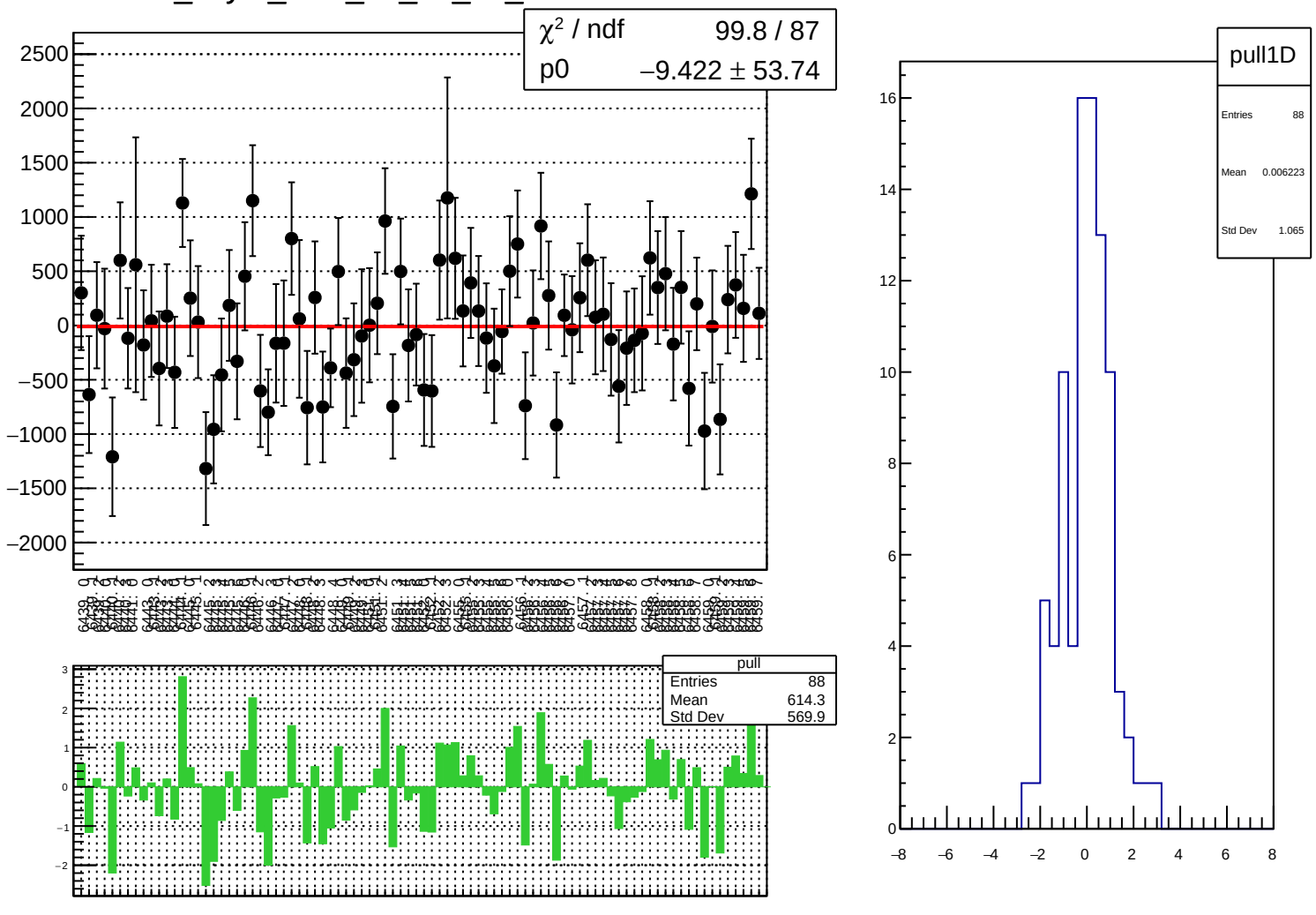

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.479e+04 / 87
p0 65.25 ± 0.05031
140
130
120
110
100
90
80
70
60

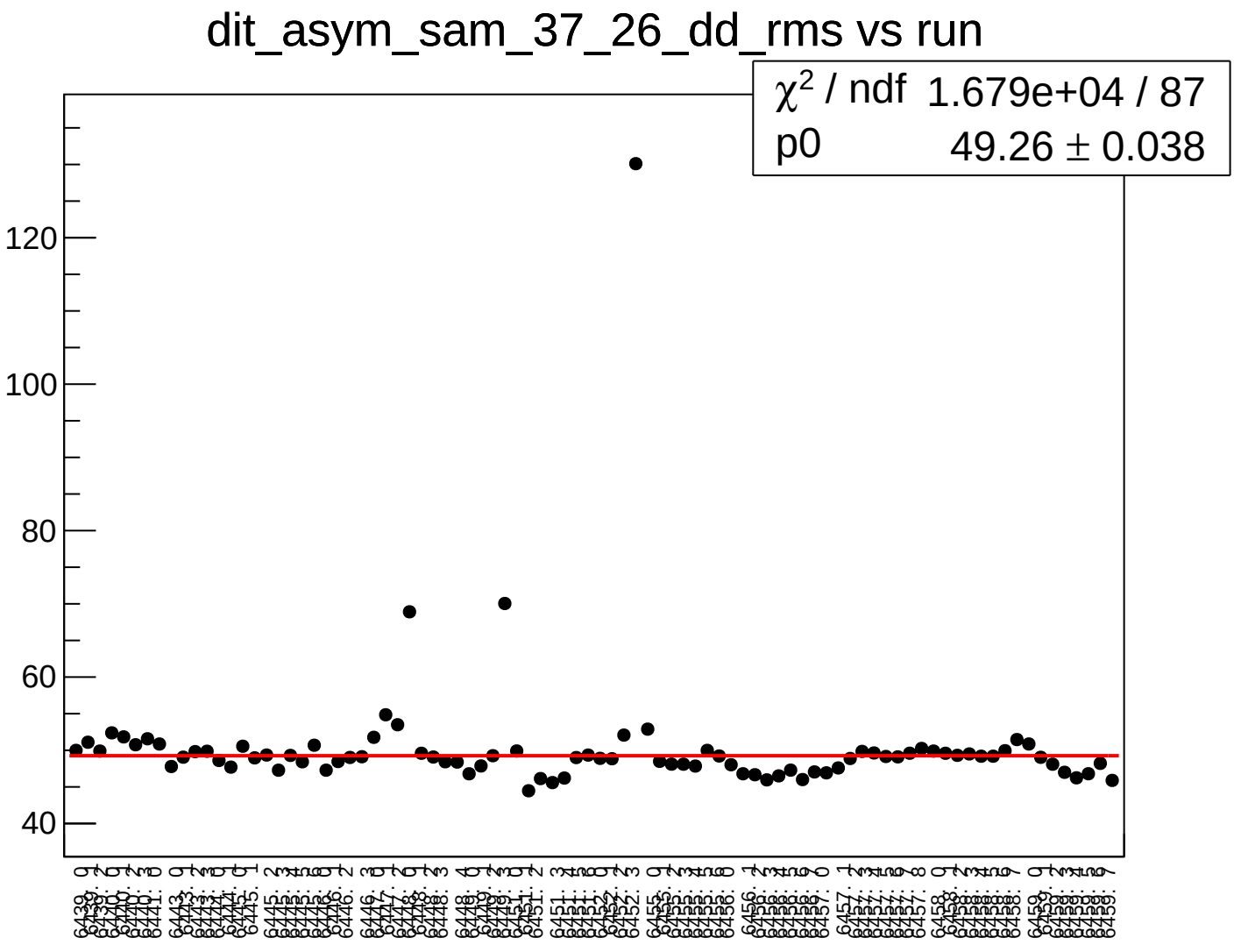

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

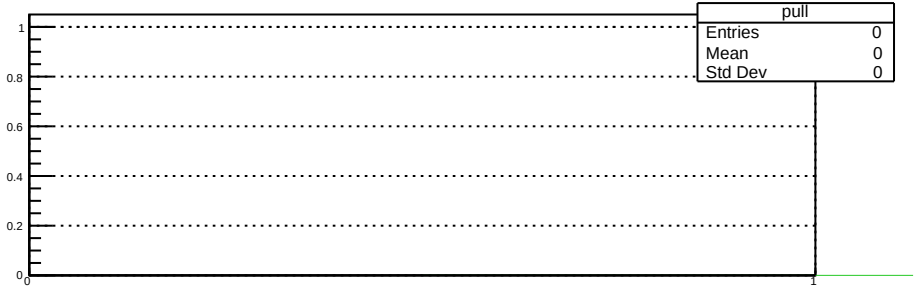

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

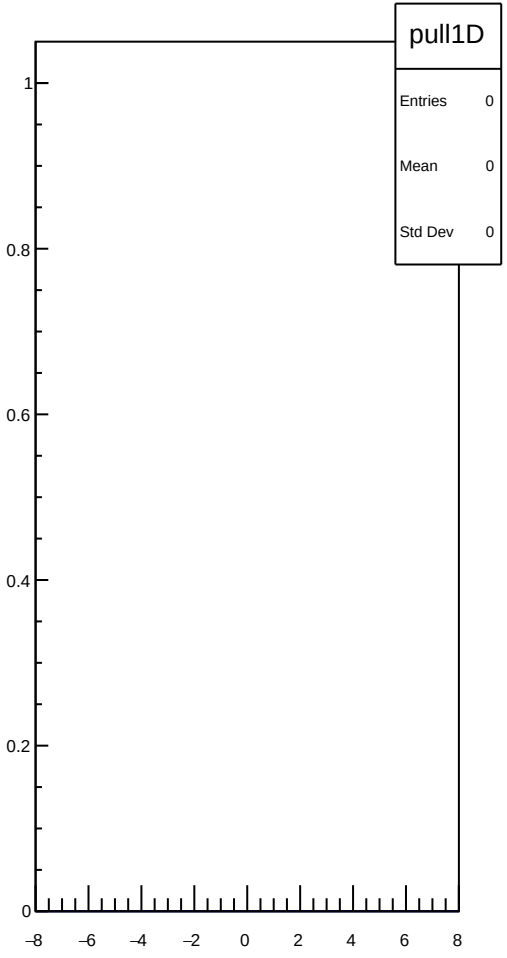

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

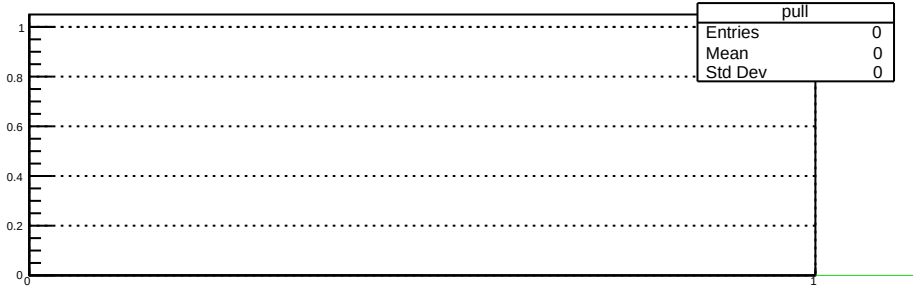

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

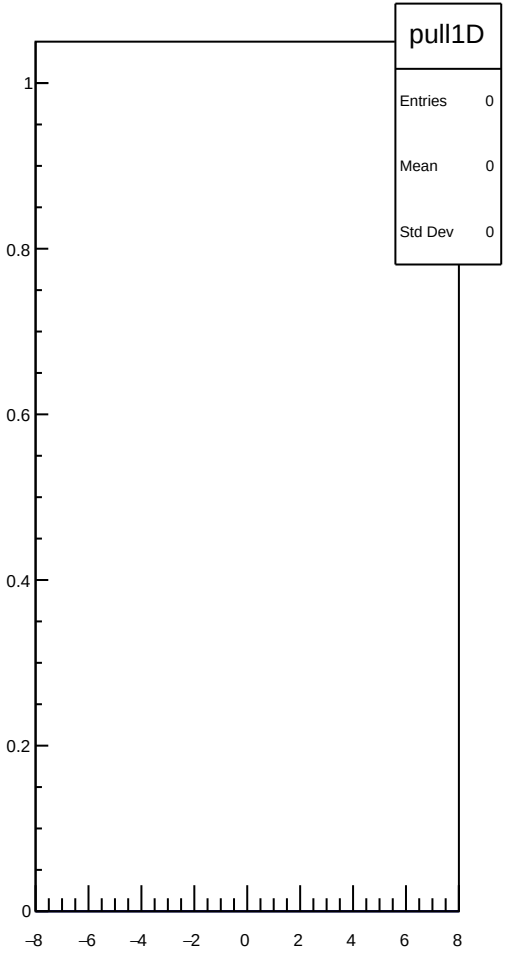

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 99.8 / 87
p0 −9.422 ± 53.74
pull
Entries 88
Mean 614.3
Std Dev 569.9
pull1D
Entries 88
Mean 0.006223
Std Dev 1.065

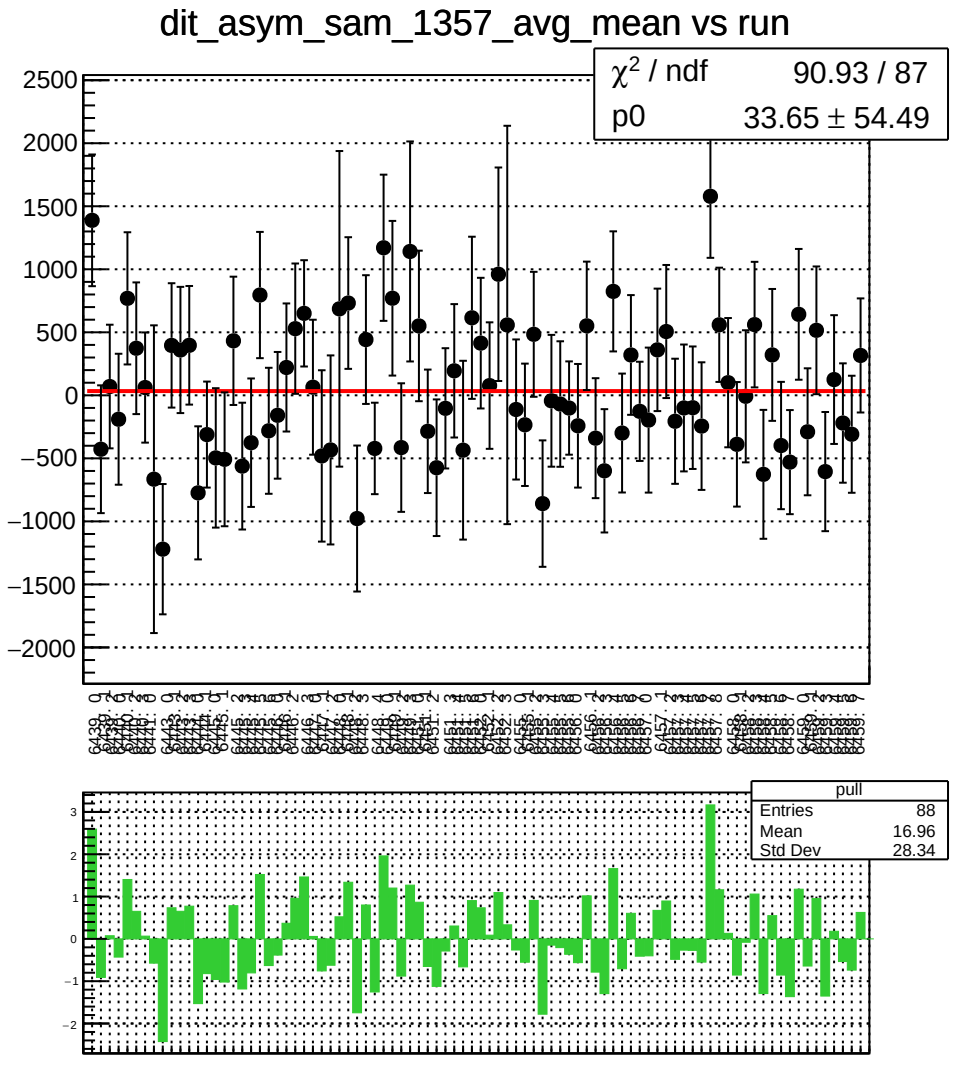

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.679e+04 / 87
p0 49.26 ± 0.038
120
100
80
60
40

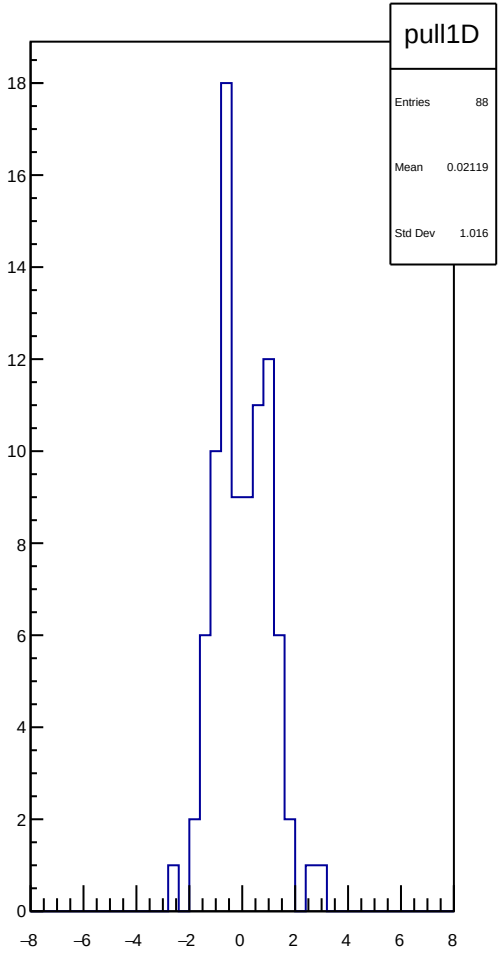

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

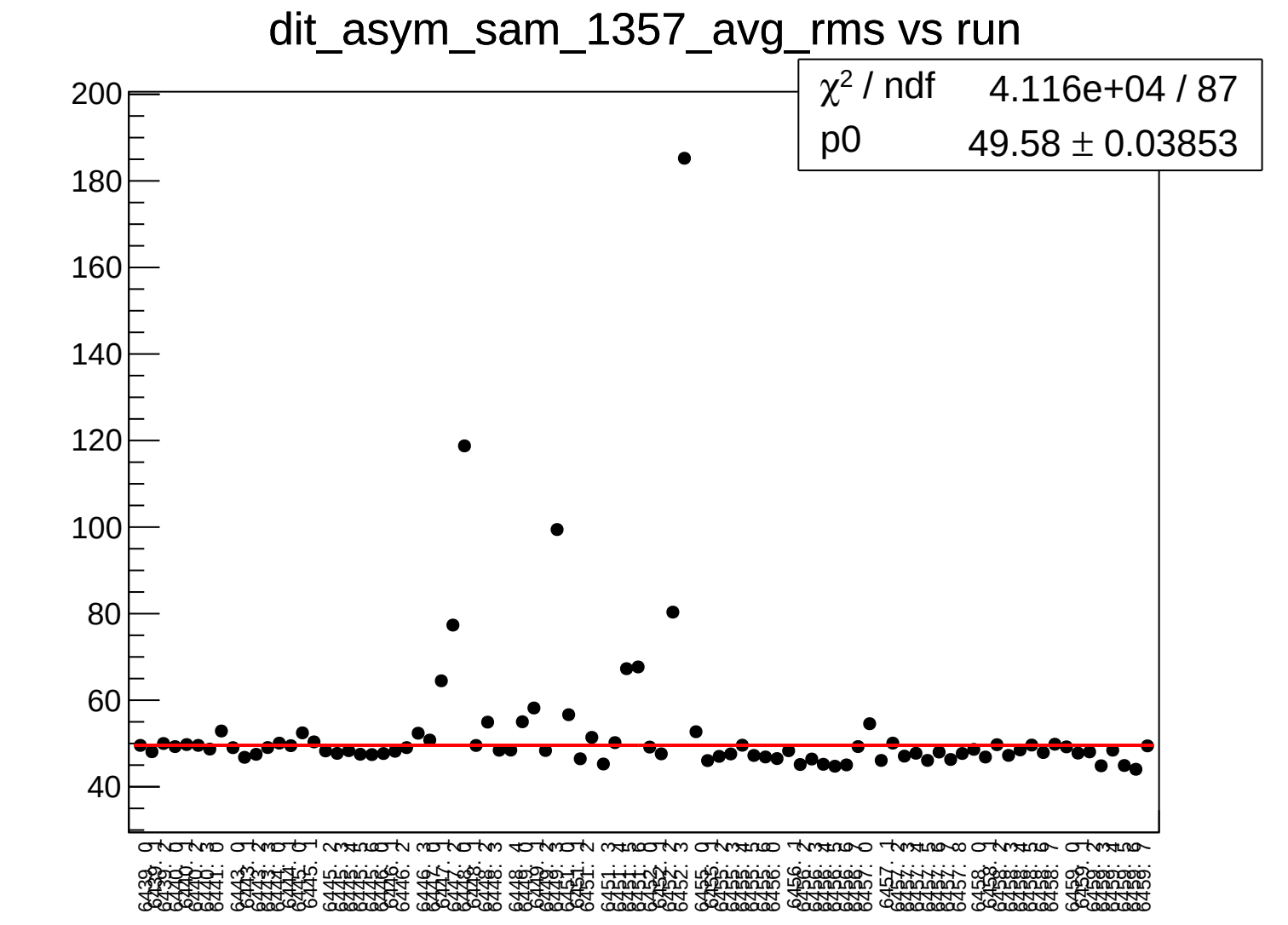

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

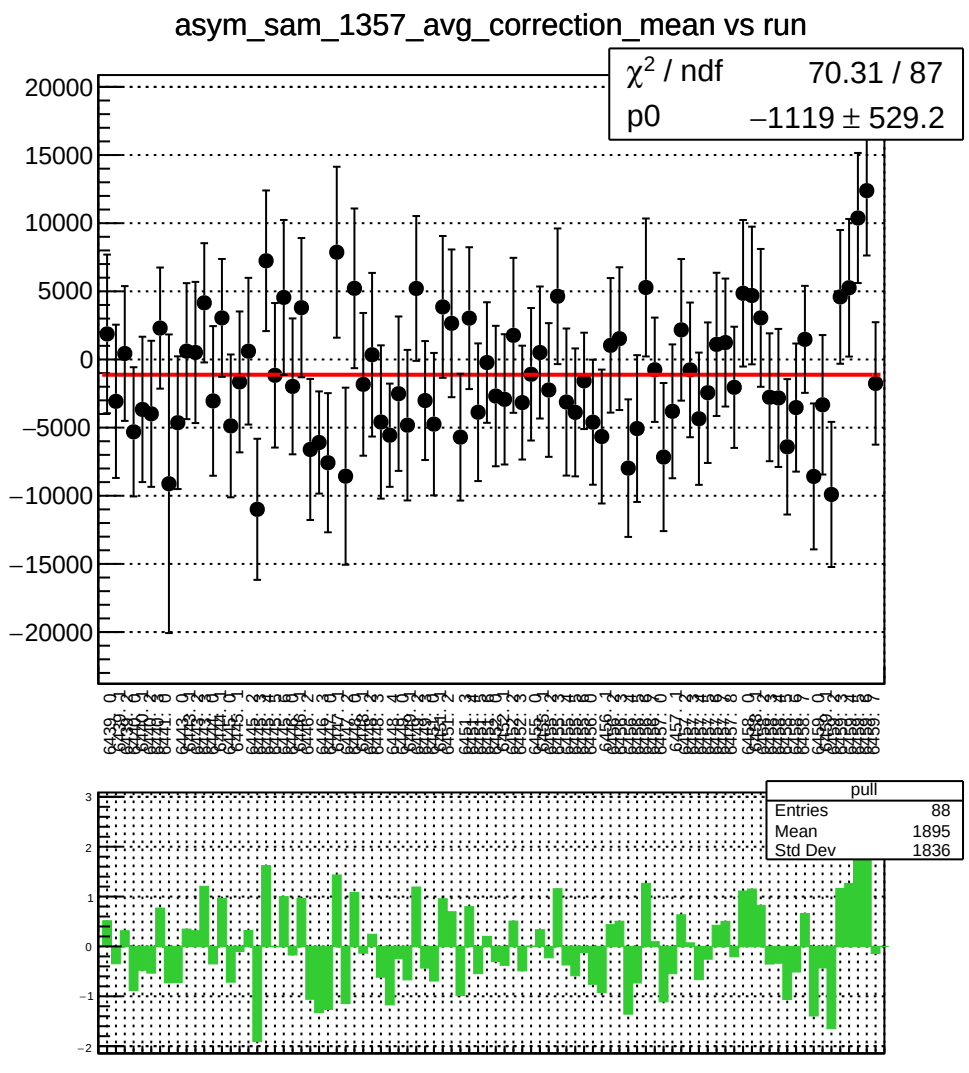

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

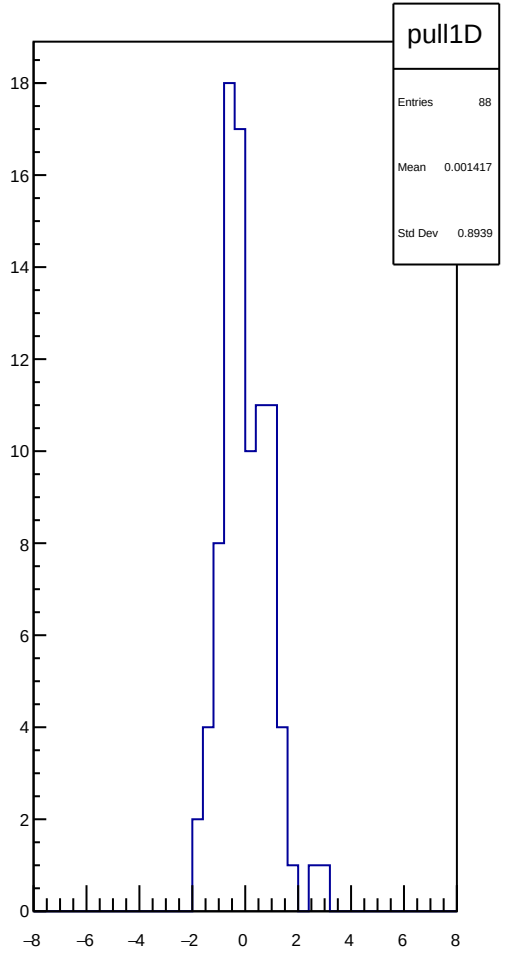

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

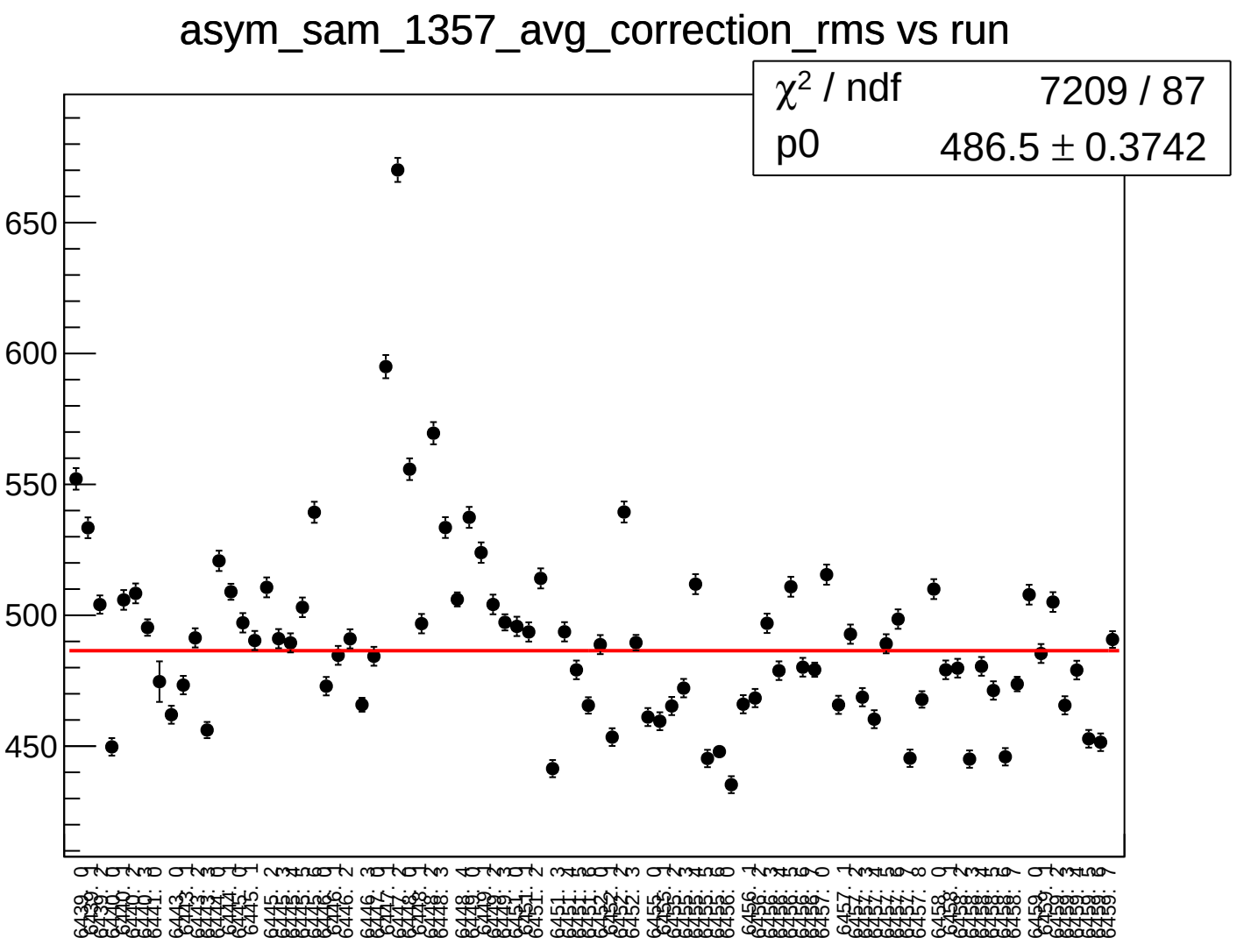

dit_asym_sam_1357_avg_mean vs run
χ^2 / ndf 90.93 / 87
p0 33.65 ± 54.49
pull
Entries 88
Mean 16.96
Std Dev 28.34

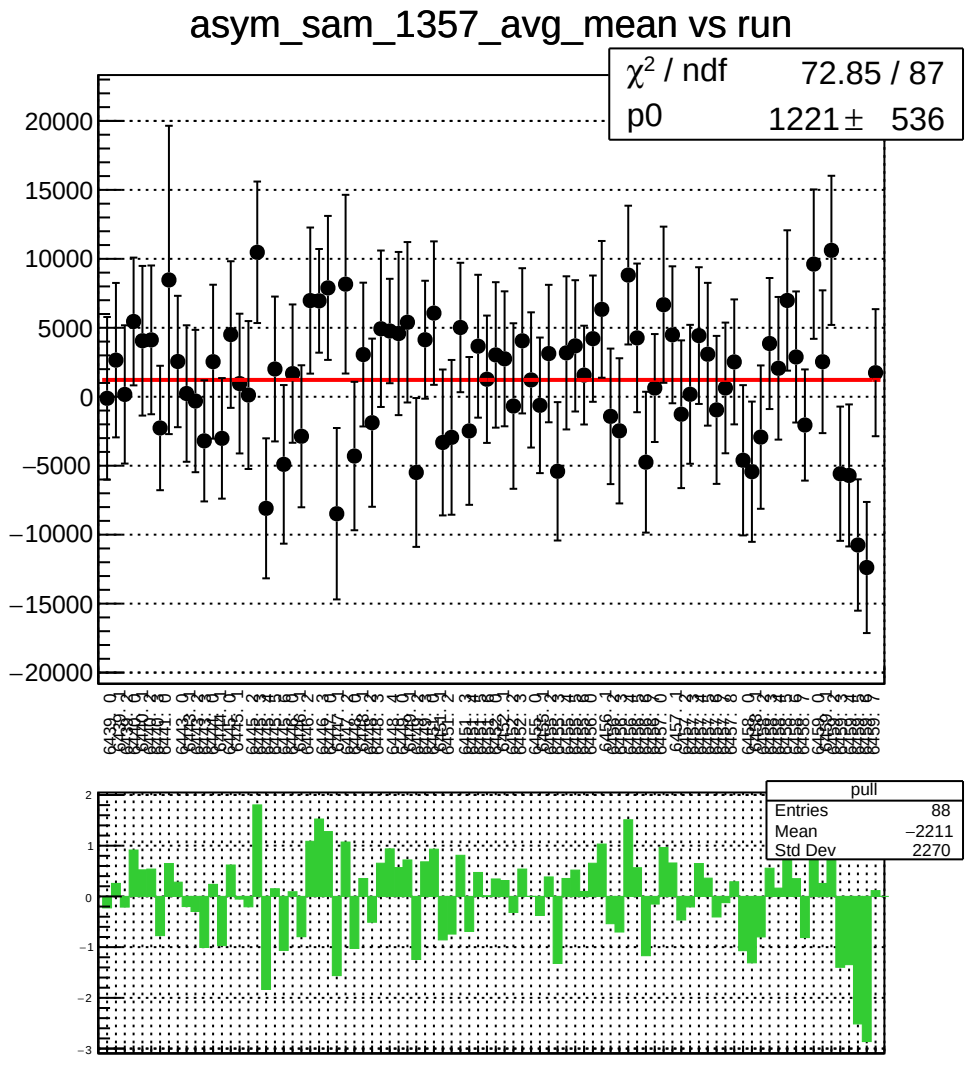

pull1D
Entries 88
Mean 0.02119
Std Dev 1.016

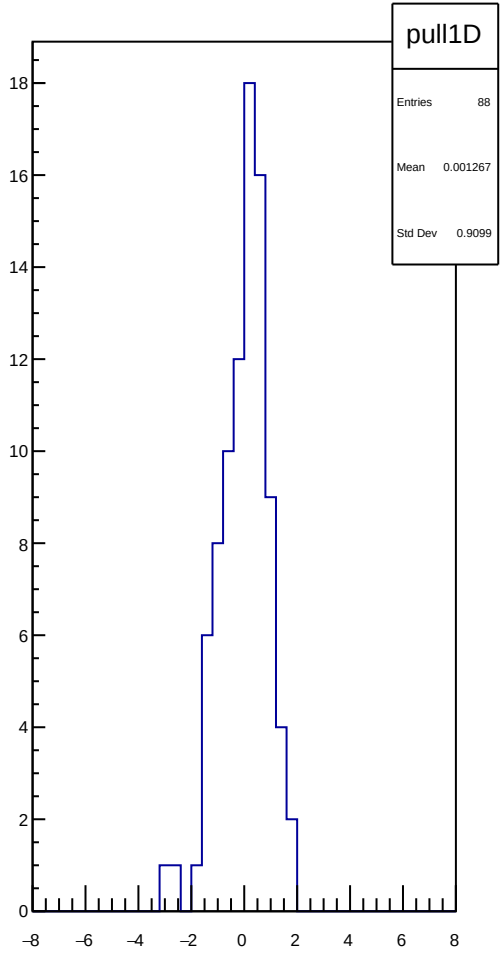

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 4.116e+04 / 87
p0 49.58 ± 0.03853
200
180
160
140
120
100
80
60
40

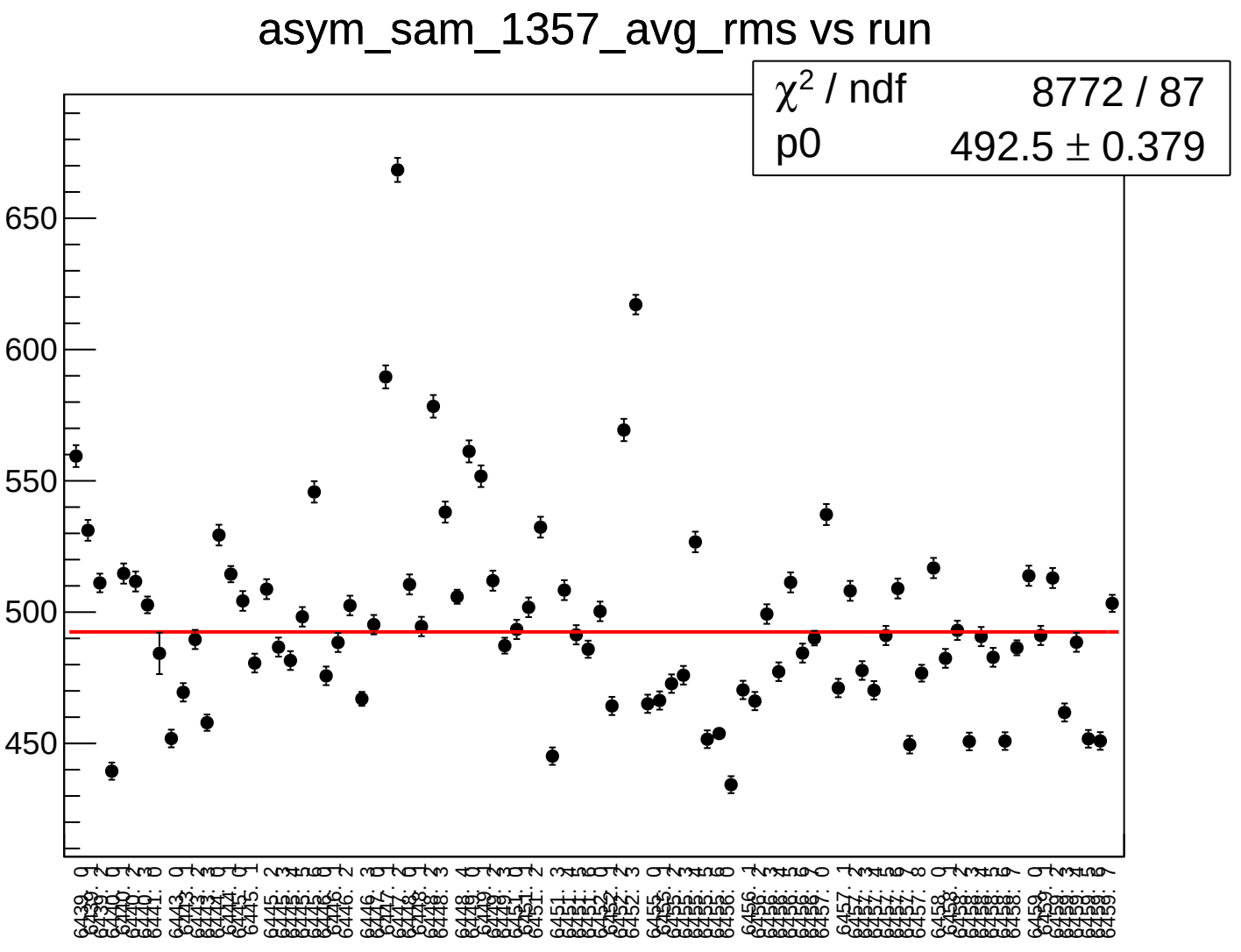

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 70.31 / 87
p0 −1119 ± 529.2
pull
Entries 88
Mean 1895
Std Dev 1836

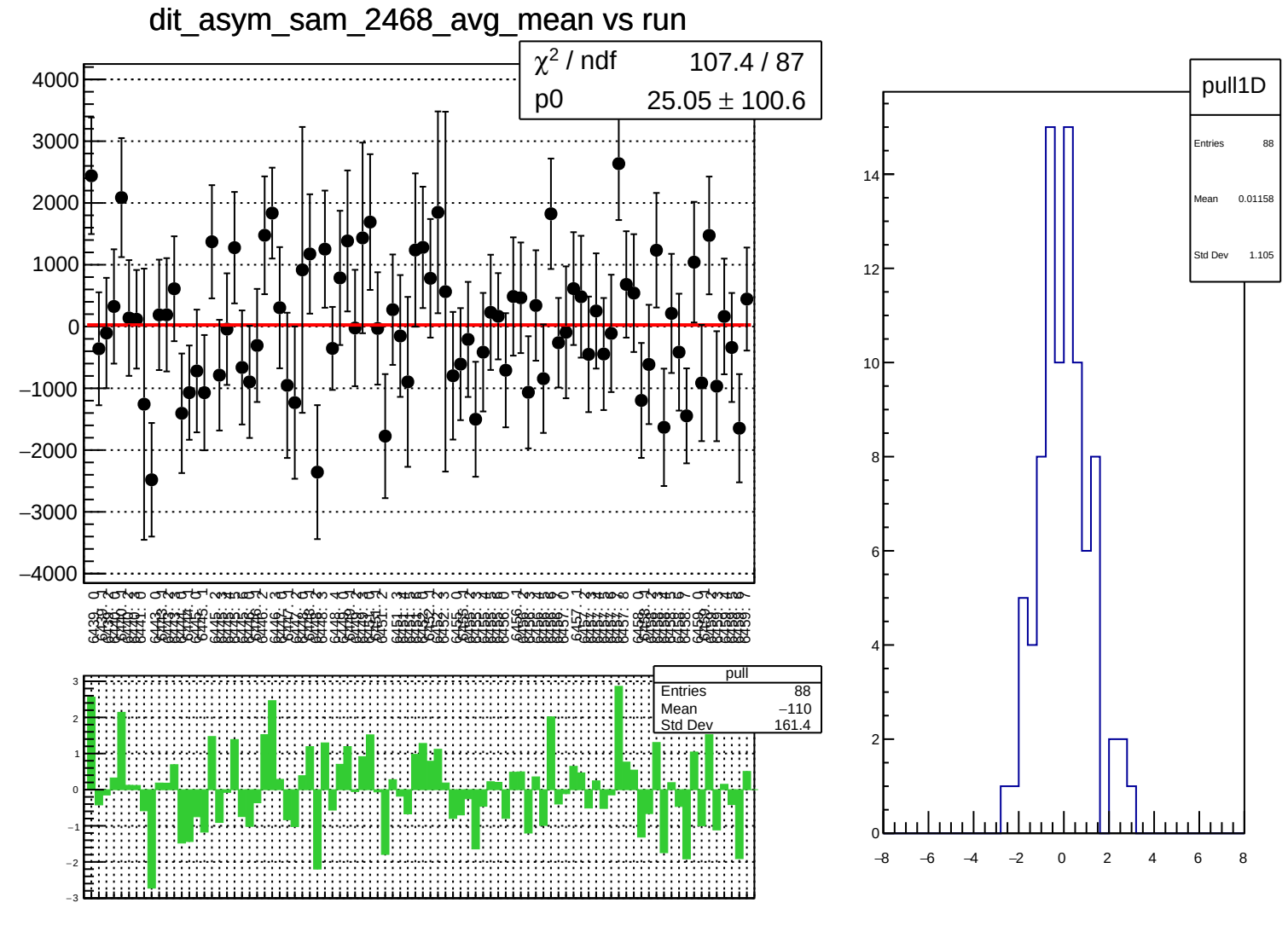

pull1D
Entries 88
Mean 0.001417
Std Dev 0.8939

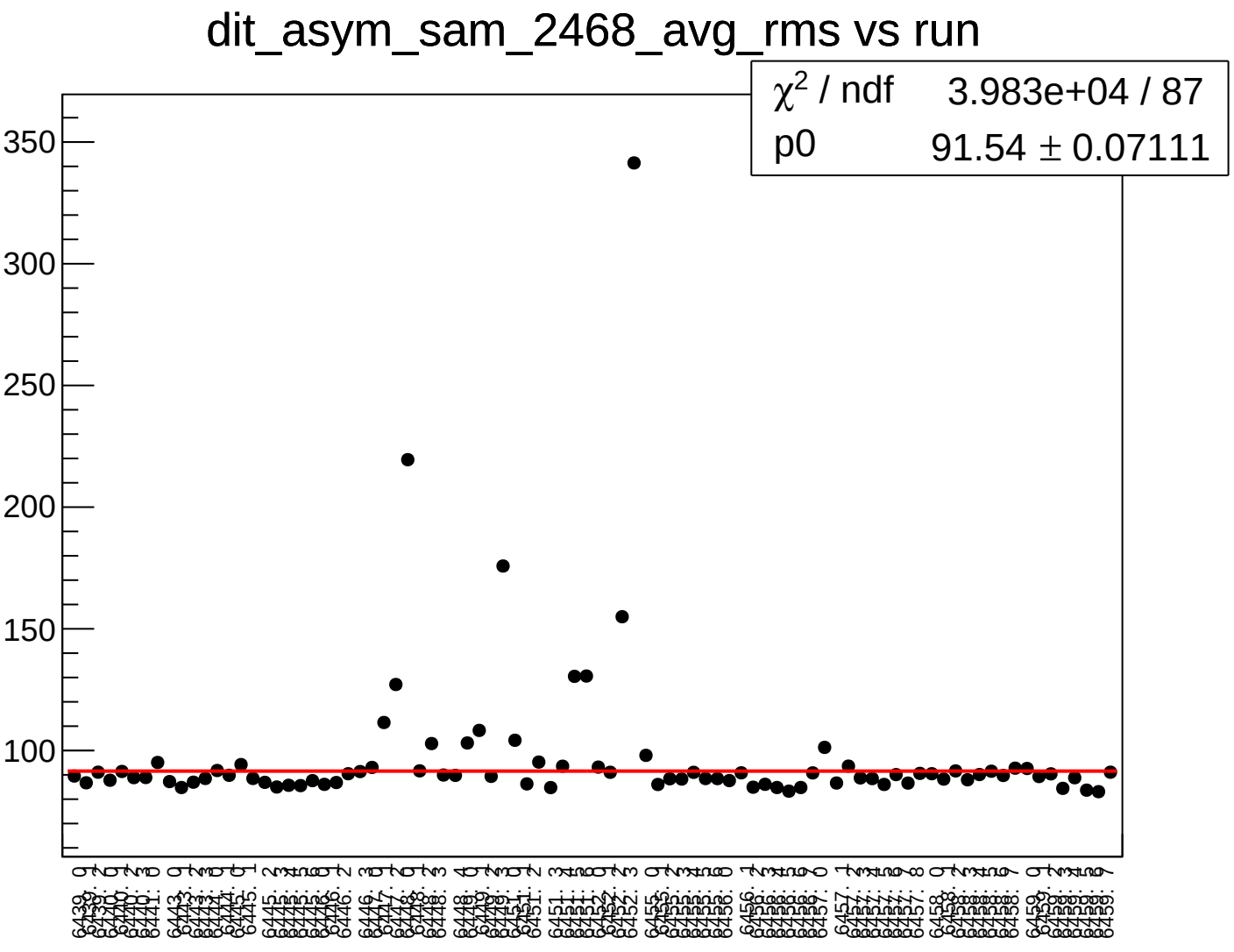

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 7209 / 87
p0 486.5 ± 0.3742
650
600
550
500
450

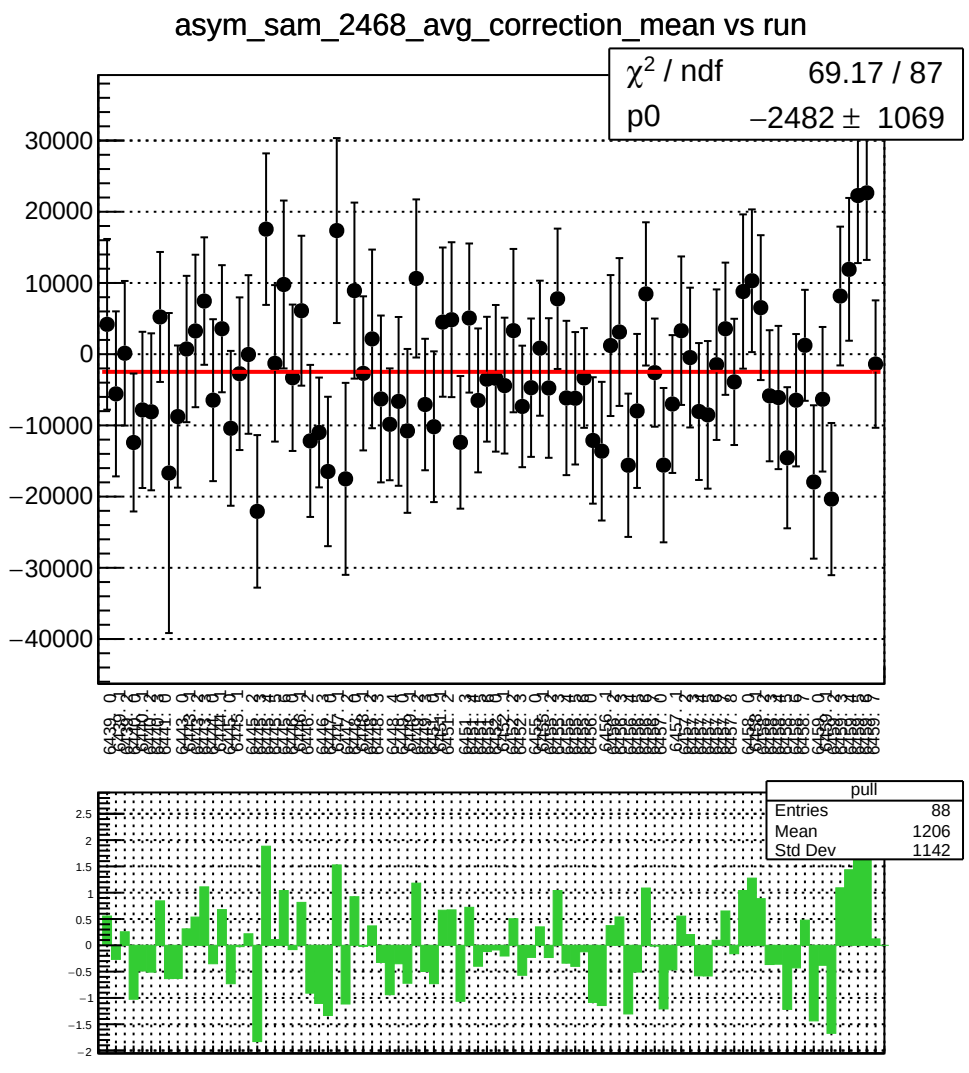

asym_sam_1357_avg_mean vs run
χ² / ndf 72.85 / 87
p0 1221 ± 536
pull
Entries 88
Mean −2211
Std Dev 2270

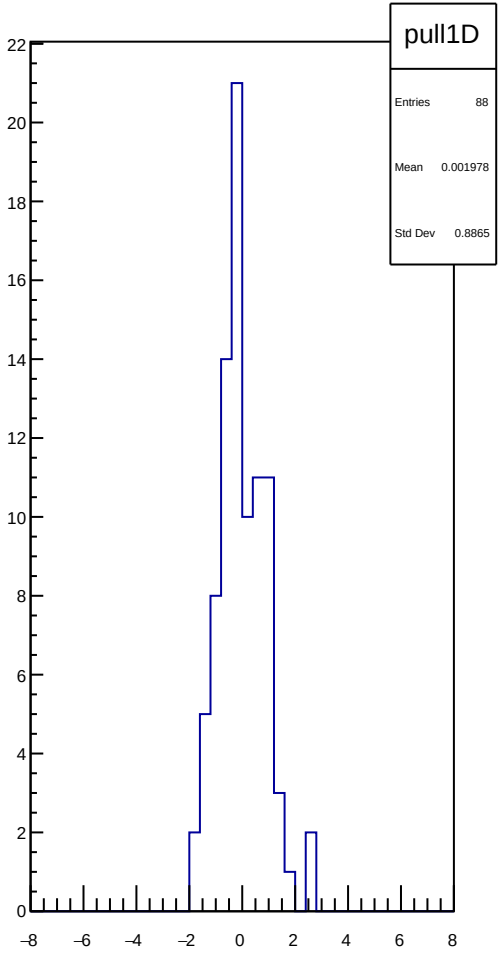

pull1D
Entries 88
Mean 0.001267
Std Dev 0.9099

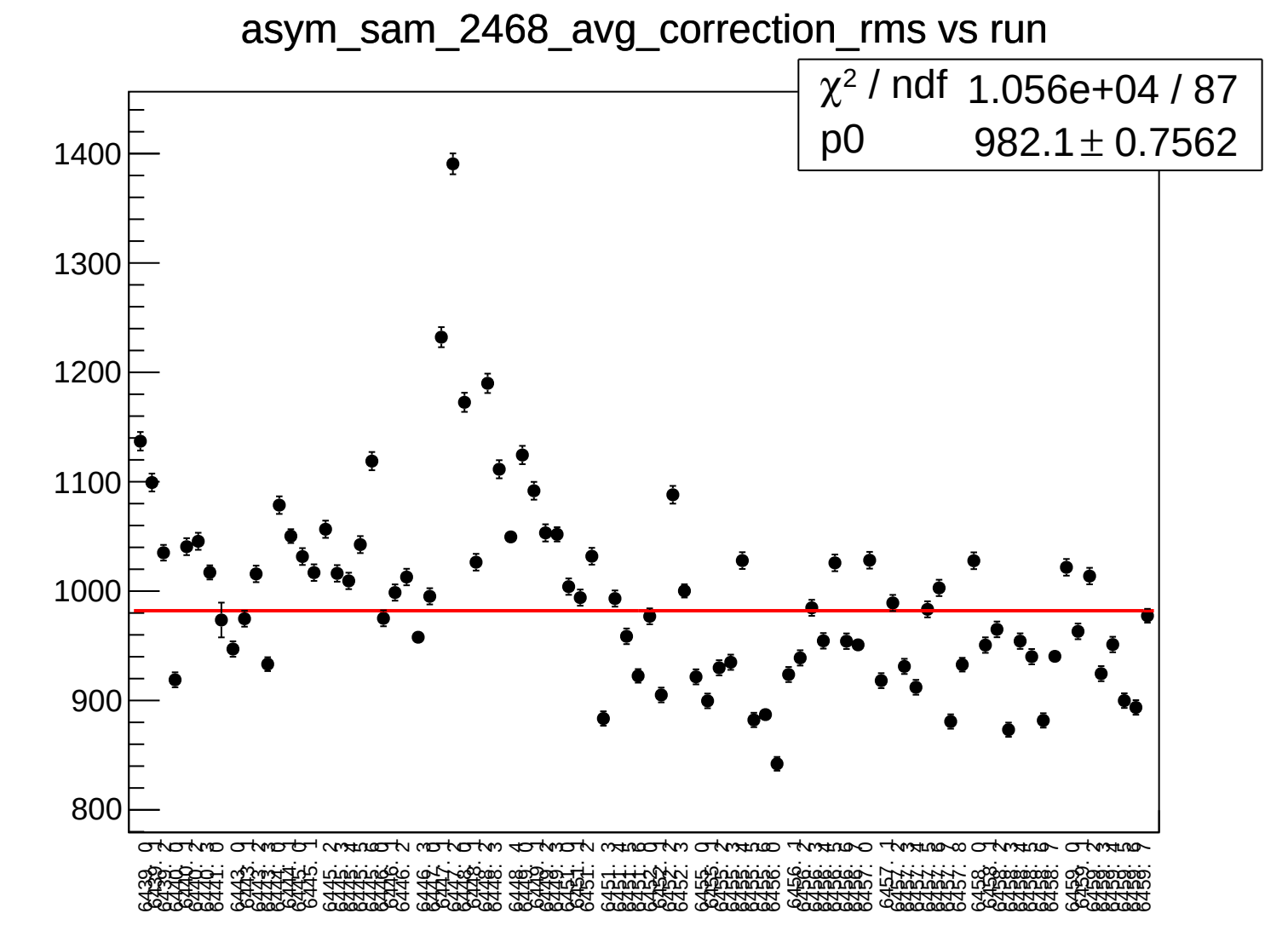

asym_sam_1357_avg_rms vs run
χ^2 / ndf 8772 / 87
p0 492.5 ± 0.379
650
600
550
500
450

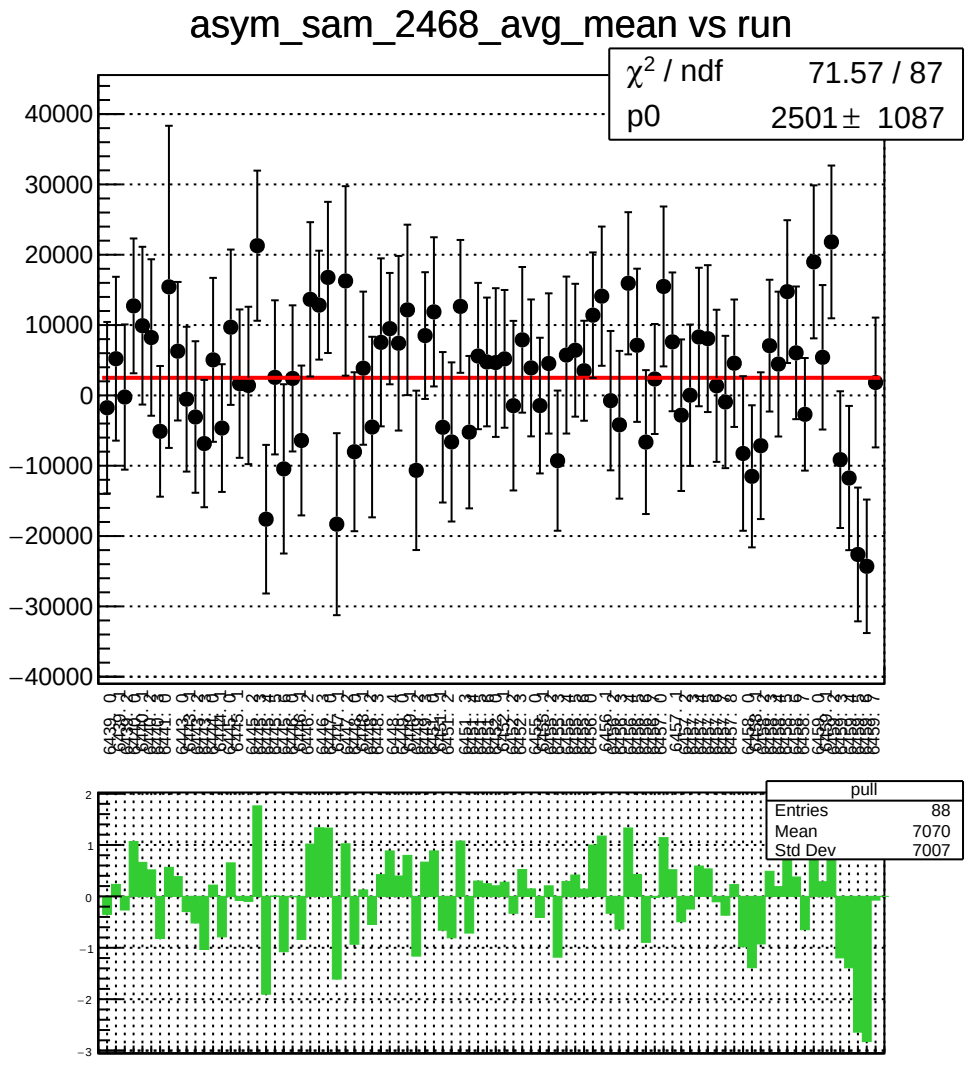

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 107.4 / 87
p0 25.05 ± 100.6
pull
Entries 88
Mean −110
Std Dev 161.4
pull1D
Entries 88
Mean 0.01158
Std Dev 1.105

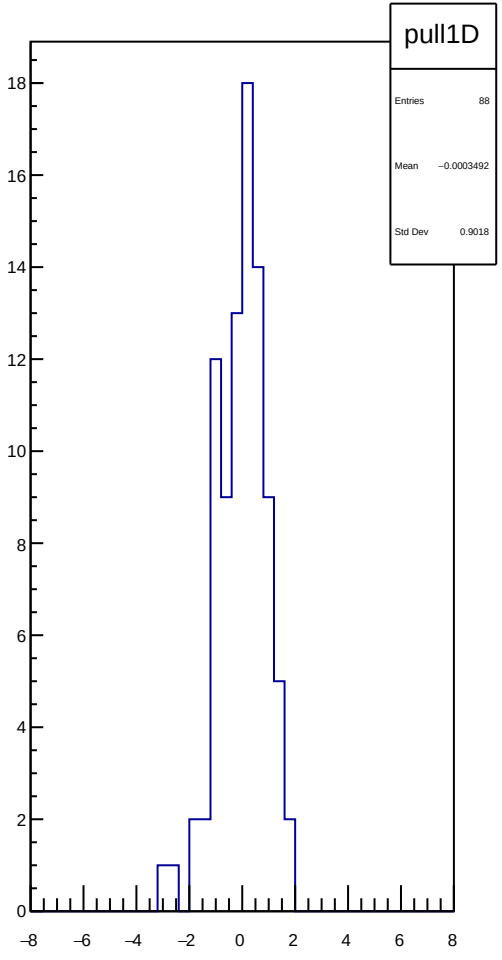

dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 3.983e+04 / 87
p0 91.54 ± 0.07111
350
300
250
200
150
100

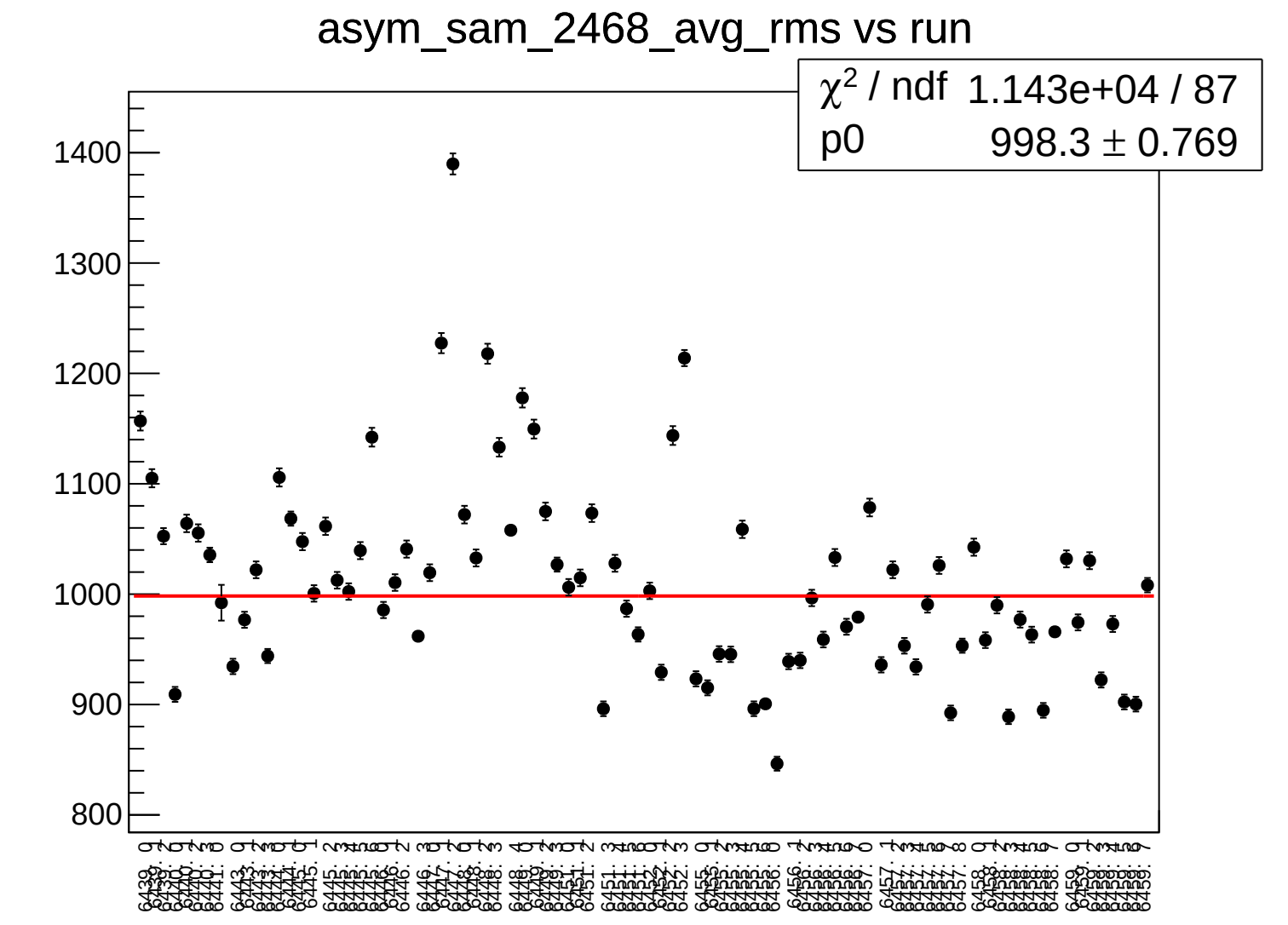

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 69.17 / 87
p0 −2482 ± 1069
pull
Entries 88
Mean 1206
Std Dev 1142

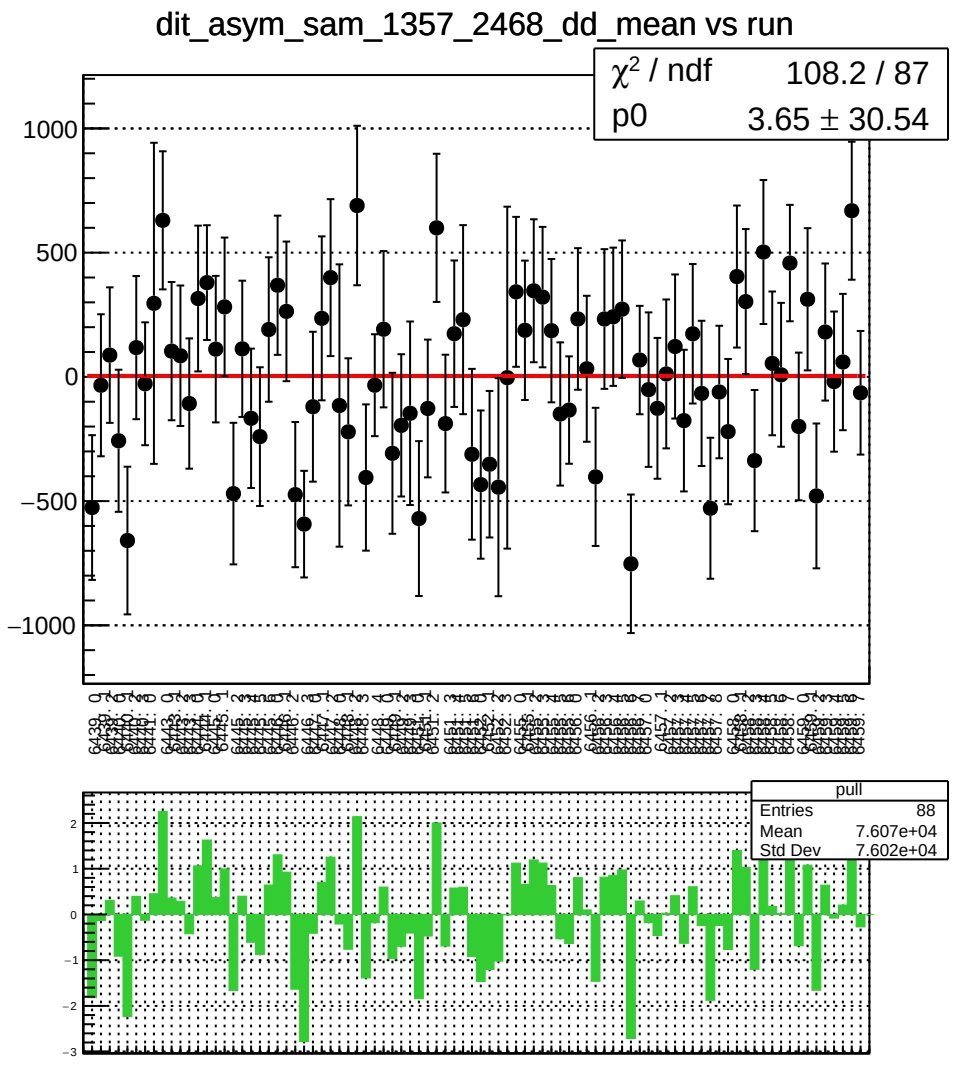

pull1D
Entries 88
Mean 0.001978
Std Dev 0.8865

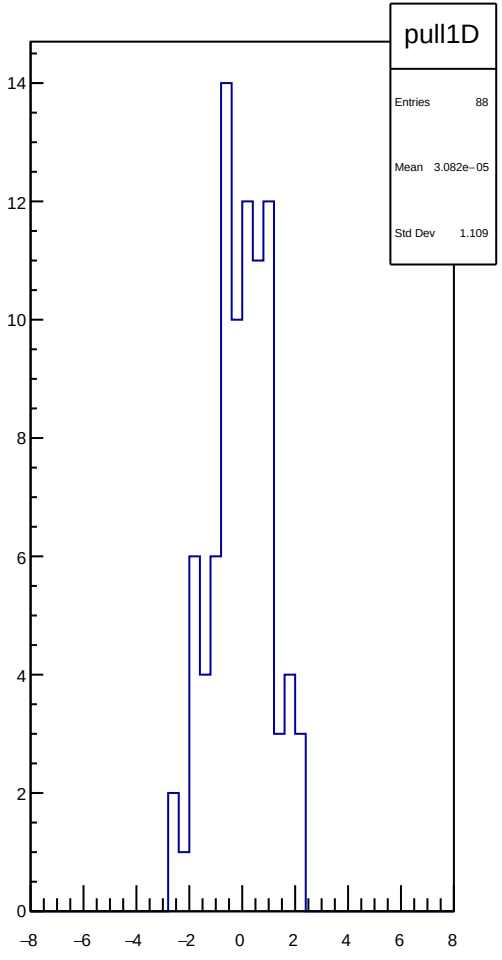

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 1.056e+04 / 87
p0 982.1 ± 0.7562
1400
1300
1200
1100
1000
900
800

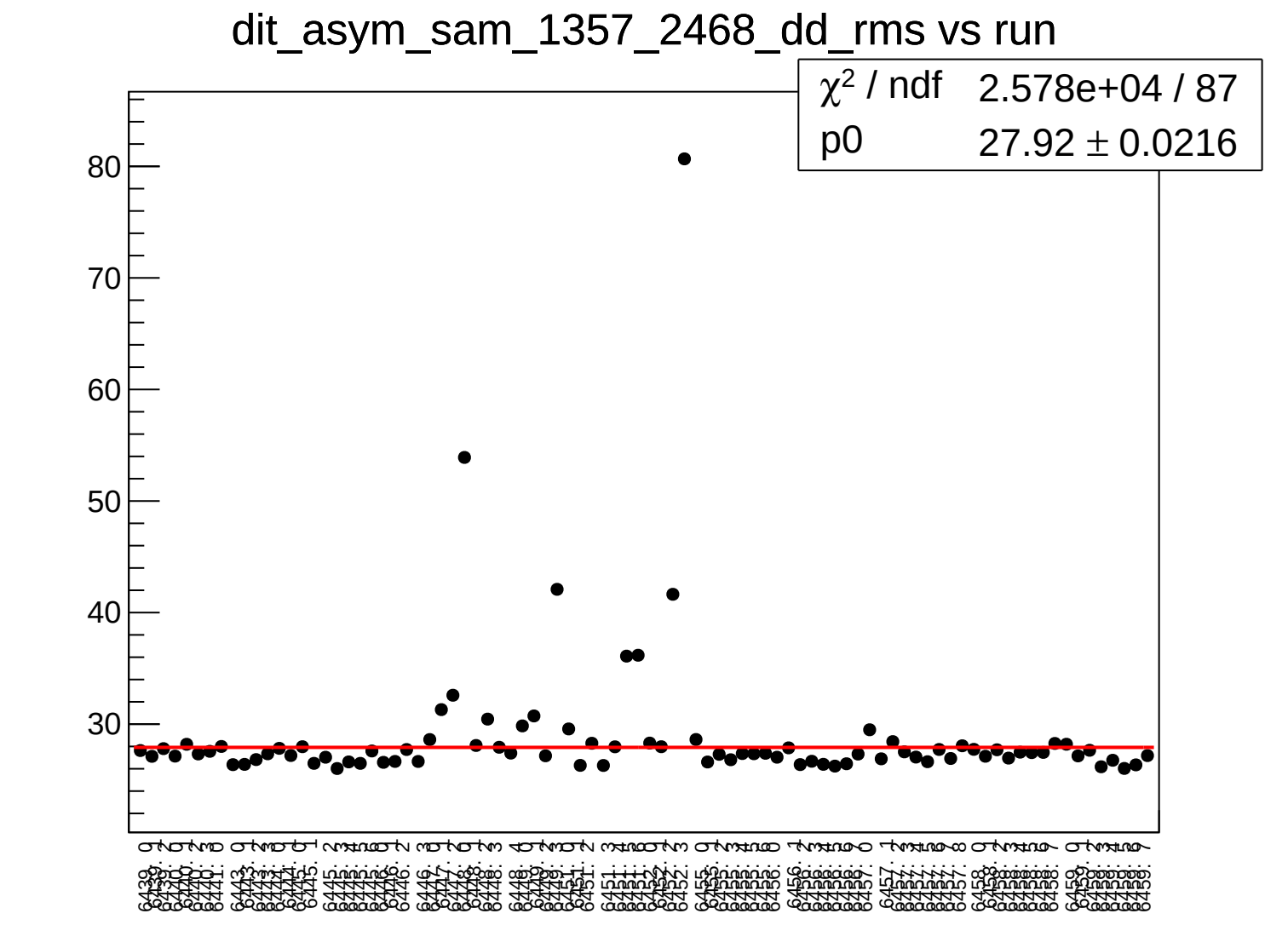

asym_sam_2468_avg_mean vs run
χ² / ndf 71.57 / 87
p0 2501 ± 1087
pull
Entries 88
Mean 7070
Std Dev 7007

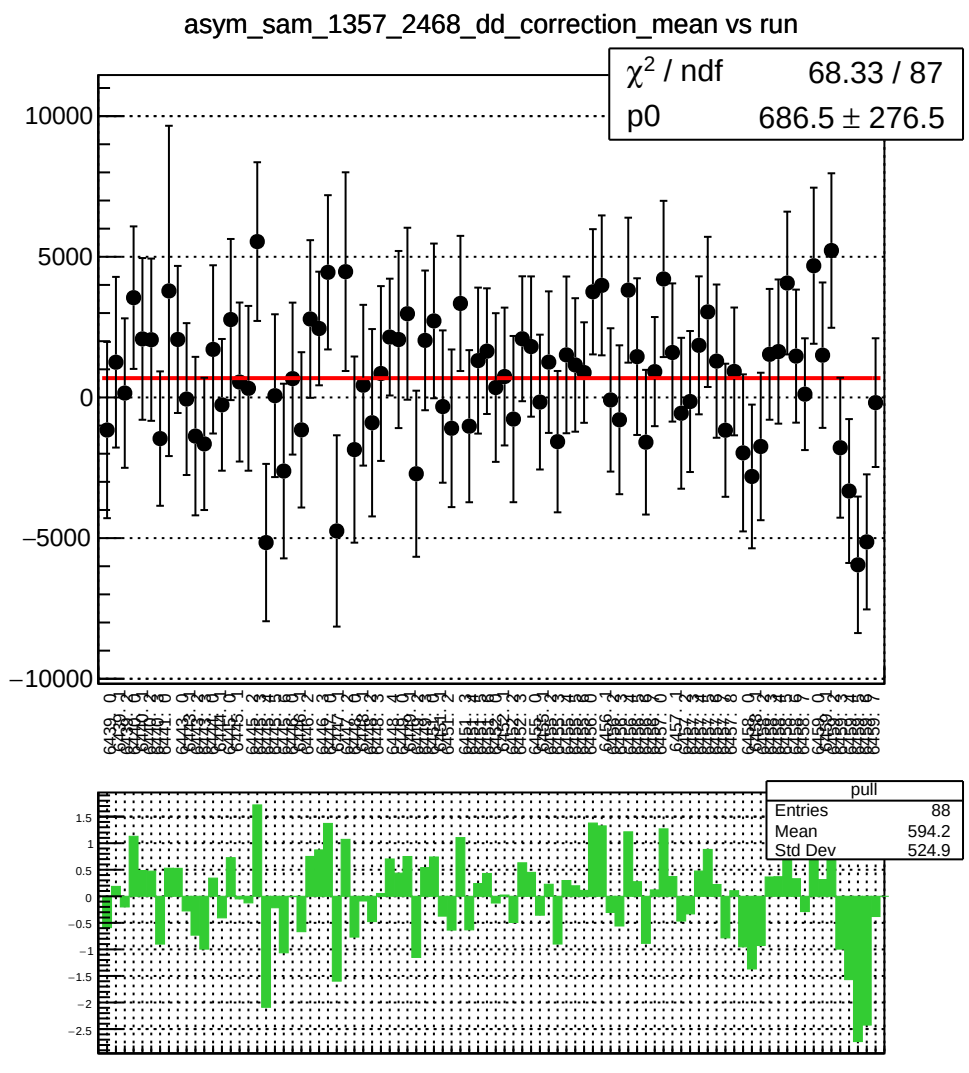

pull1D
Entries 88
Mean −0.0003492
Std Dev 0.9018

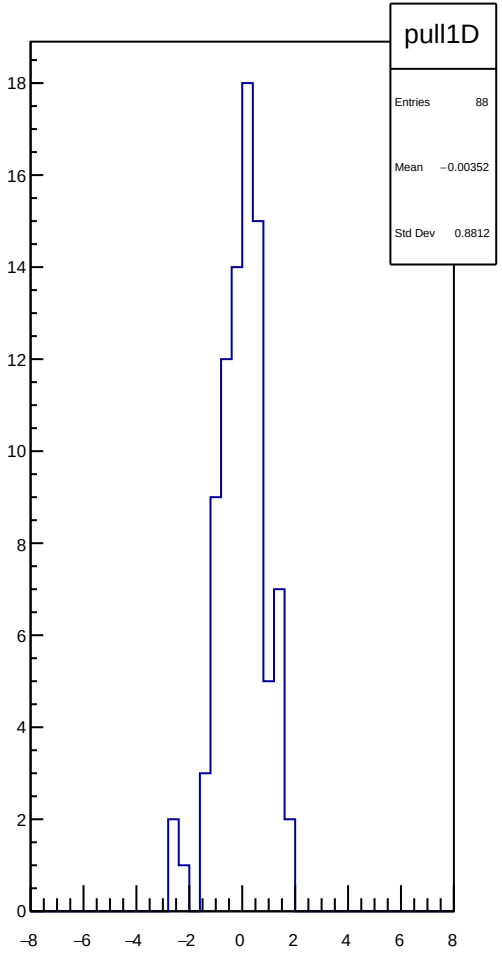

asym_sam_2468_avg_rms vs run
χ² / ndf 1.143e+04 / 87
p0 998.3 ± 0.769
1400
1300
1200
1100
1000
900
800

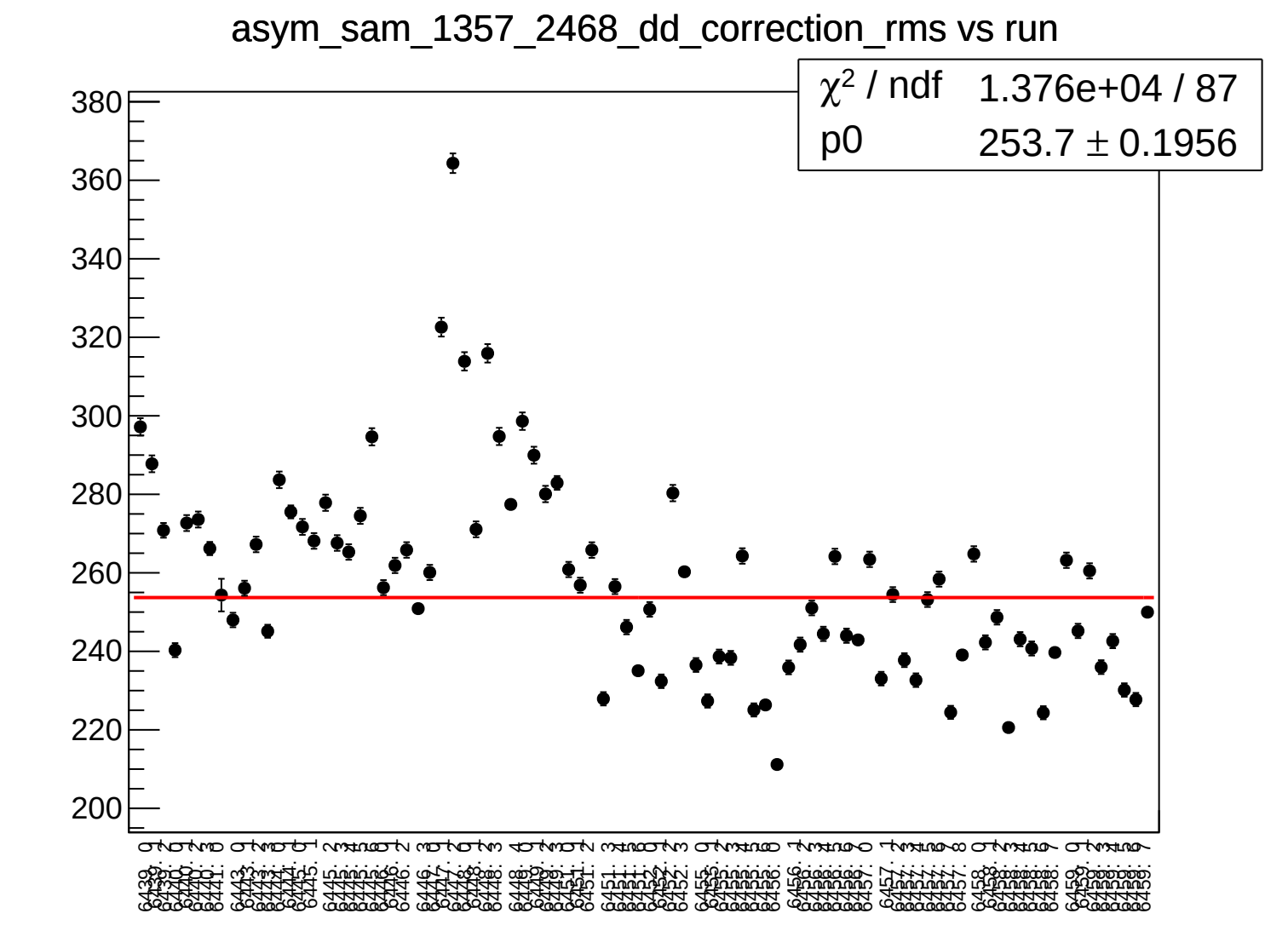

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 108.2 / 87
p0 3.65 ± 30.54
1000
500
0
−500
−1000
pull
Entries 88
Mean 7.607e+04
Std Dev 7.602e+04
2
1
0
−1
−2
−3

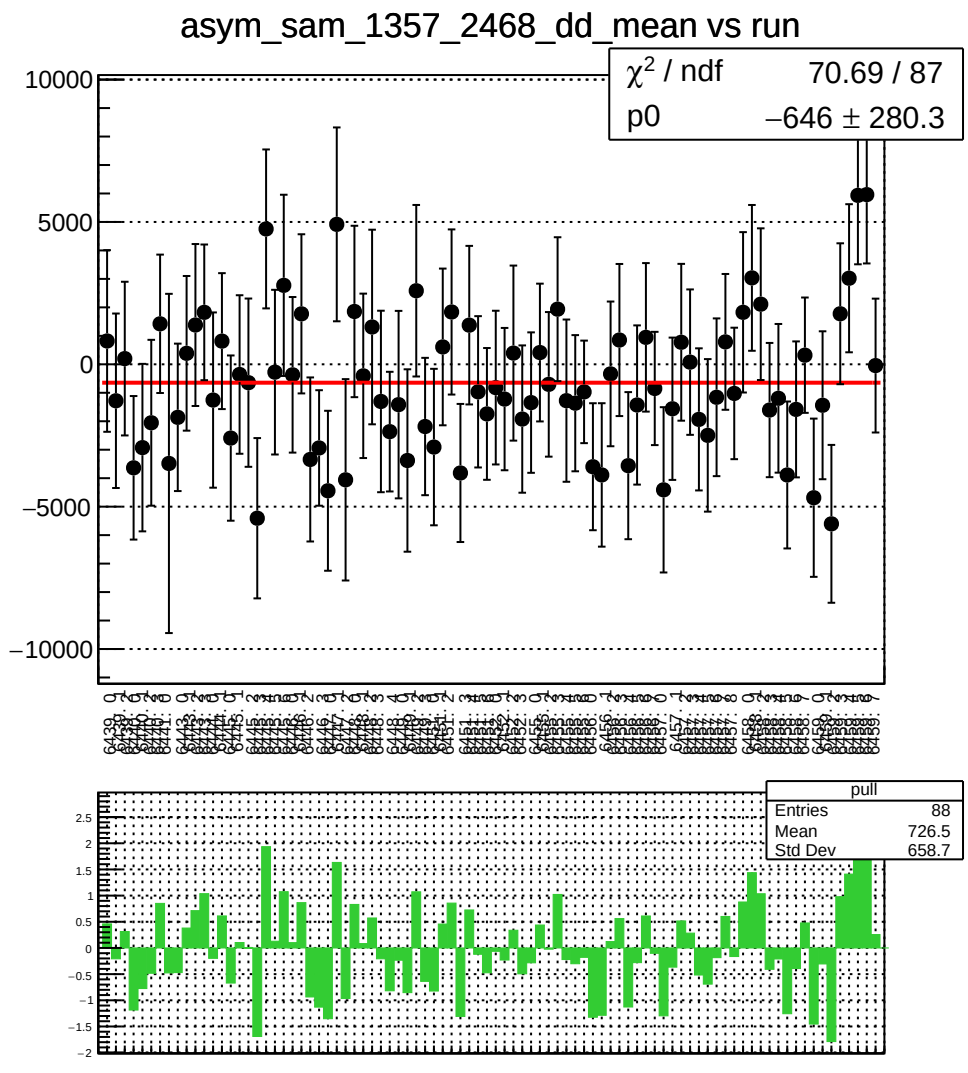

pull1D
Entries 88
Mean 3.082e−05
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

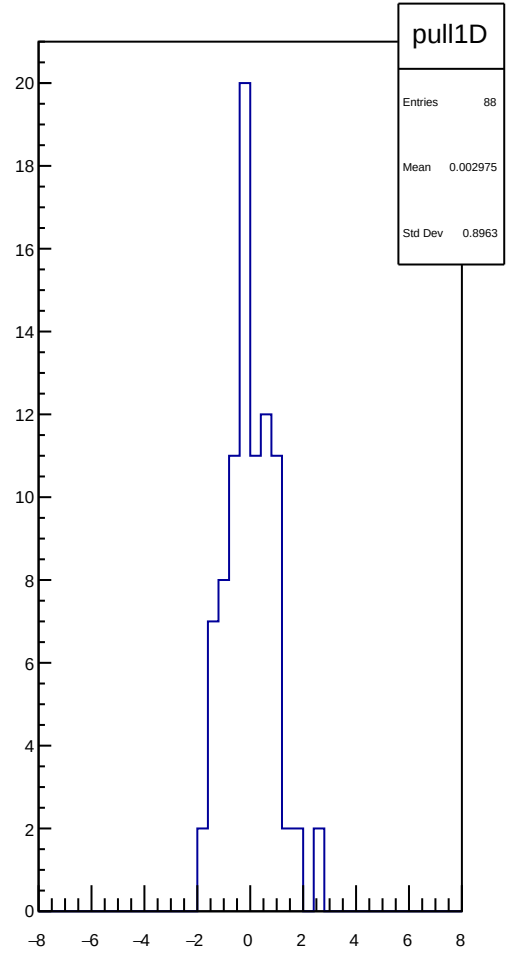

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.578e+04 / 87
p0 27.92 ± 0.0216
80
70
60
50
40
30

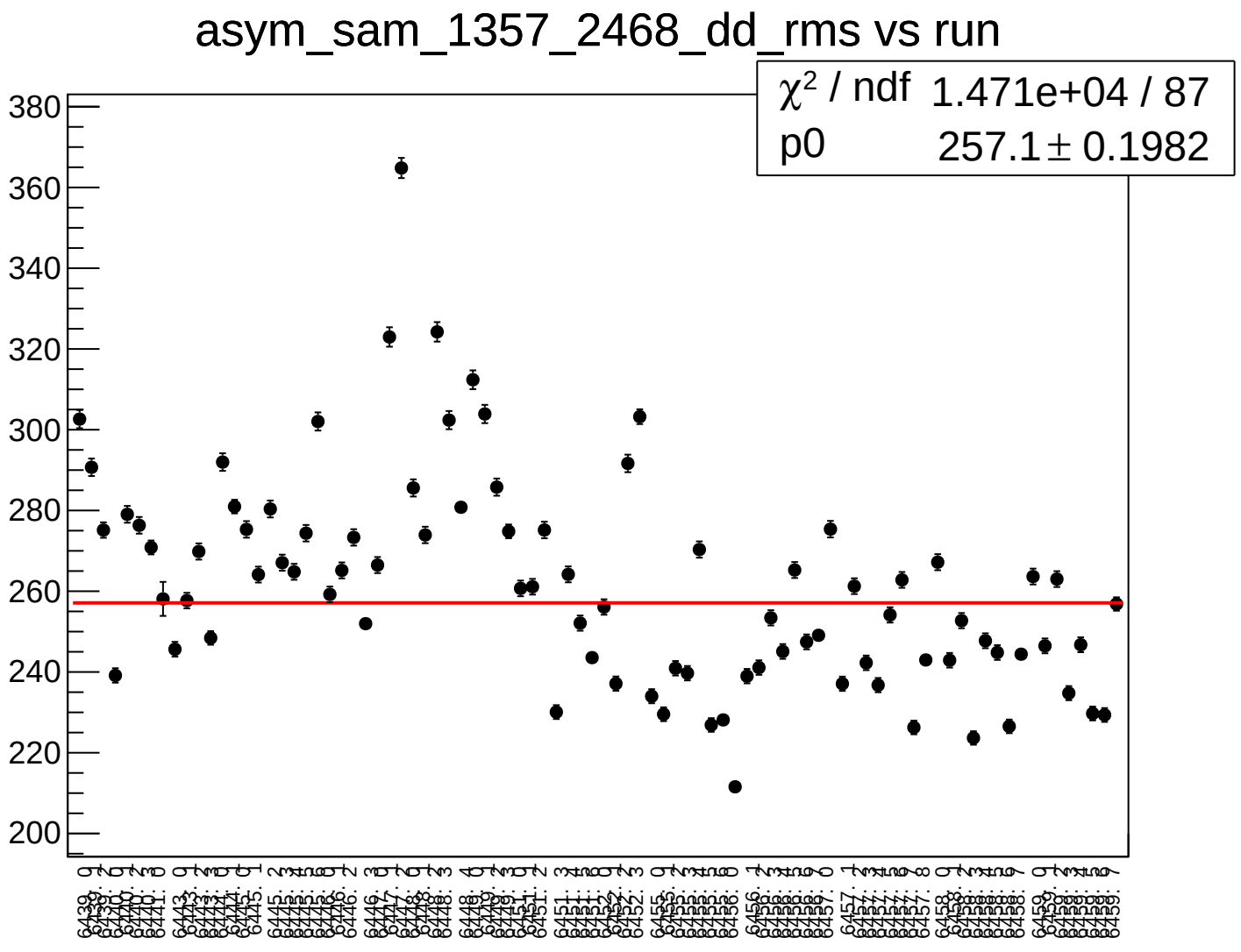

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 68.33 / 87
p0 686.5 ± 276.5
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 594.2
Std Dev 524.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

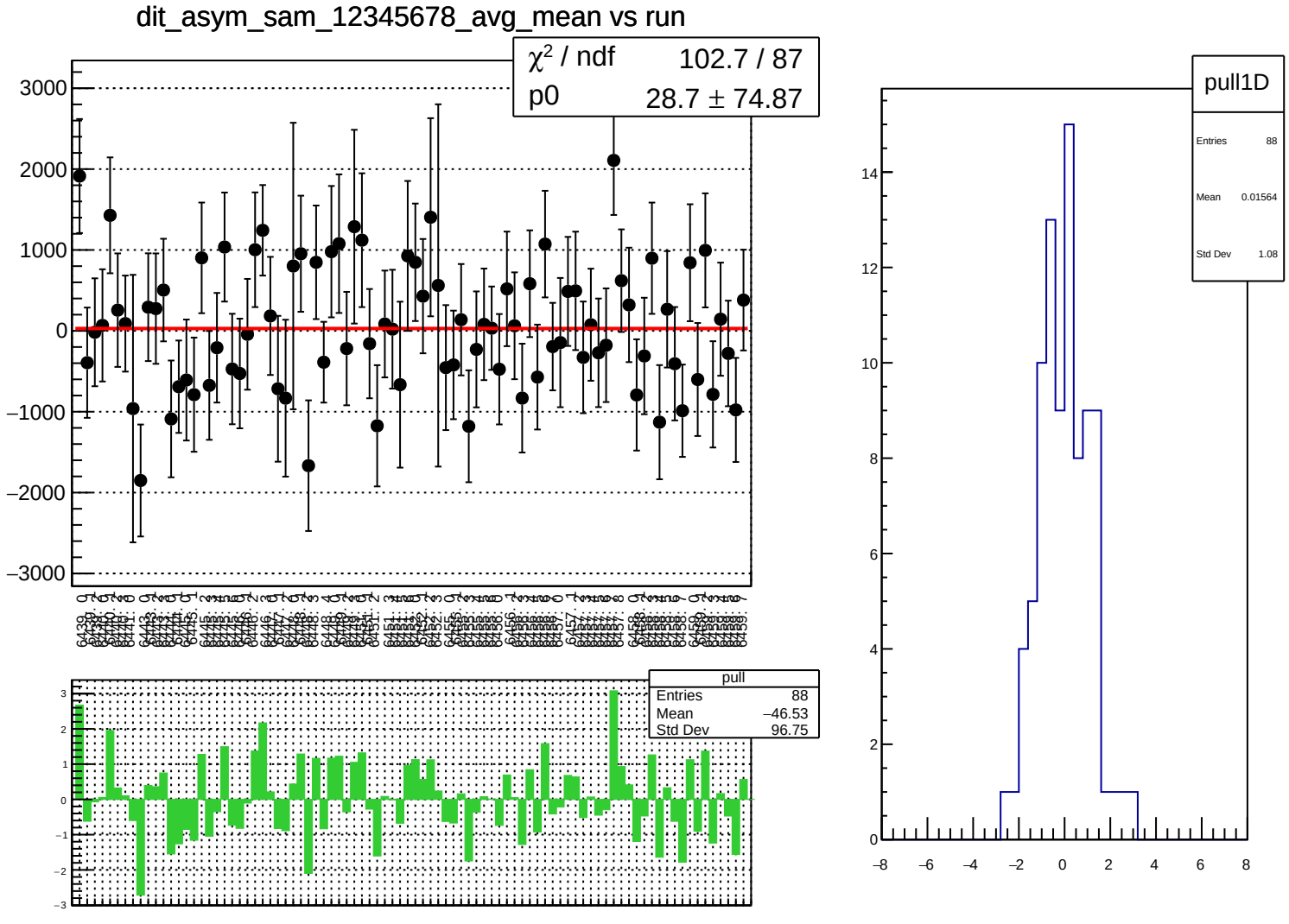

pull1D
Entries 88
Mean −0.00352
Std Dev 0.8812
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

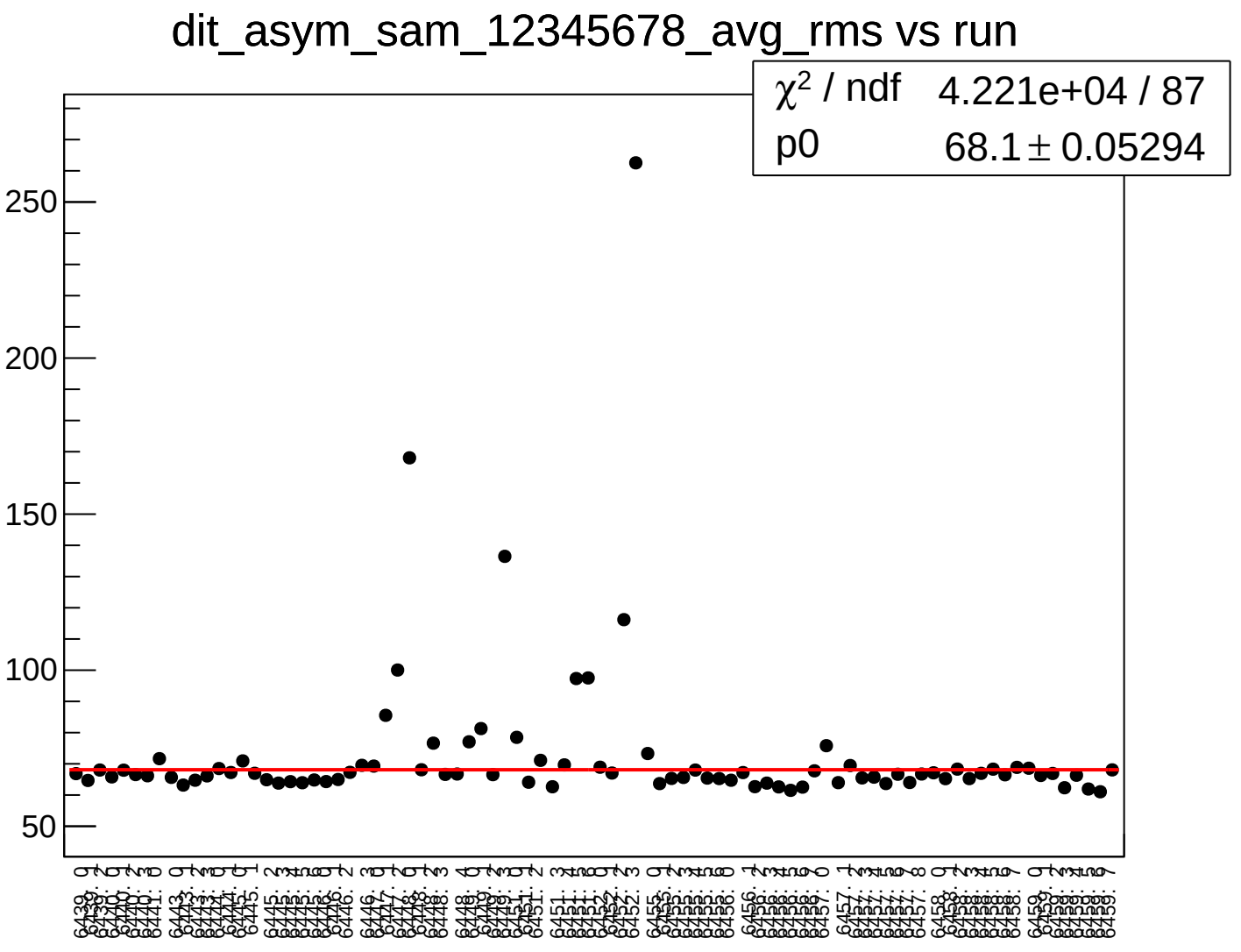

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1.376e+04 / 87
p0 253.7 ± 0.1956
380
360
340
320
300
280
260
240
220
200

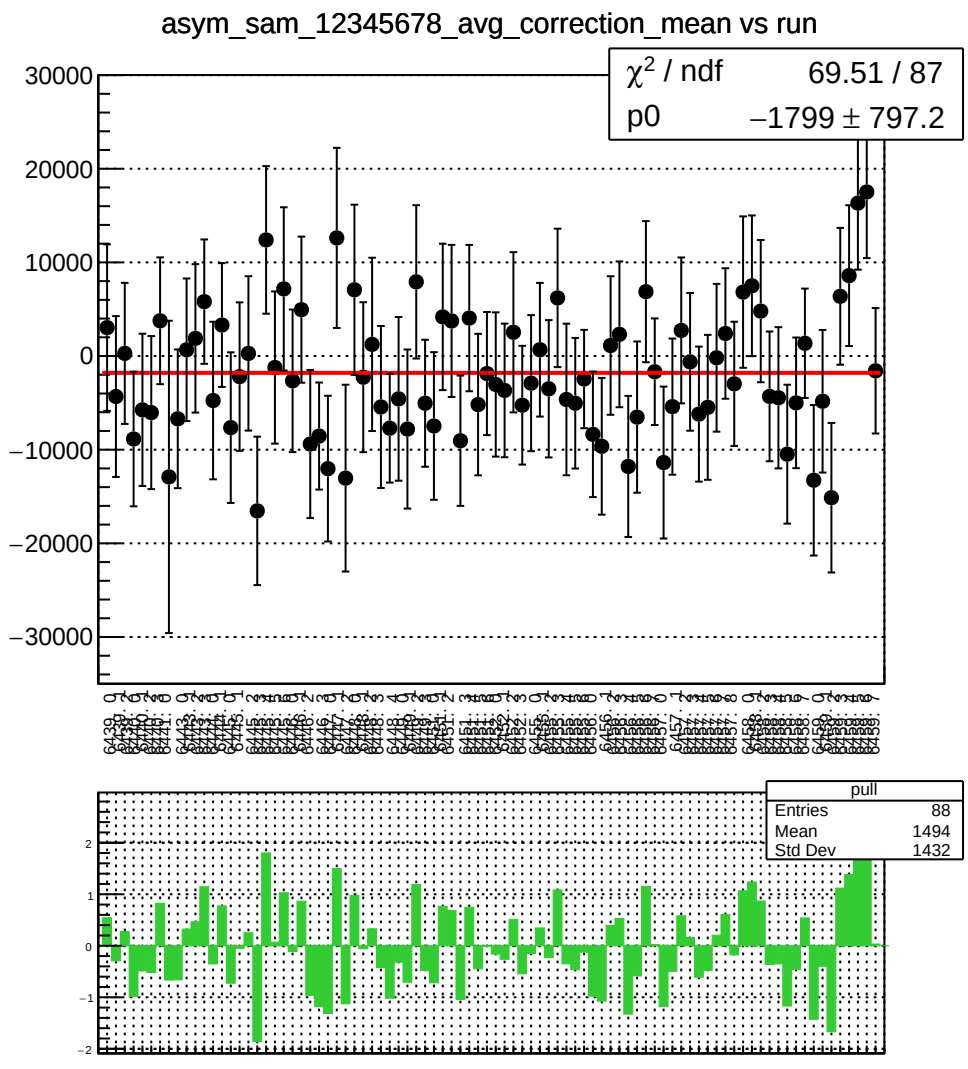

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 70.69 / 87
p0 −646 ± 280.3
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 726.5
Std Dev 658.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

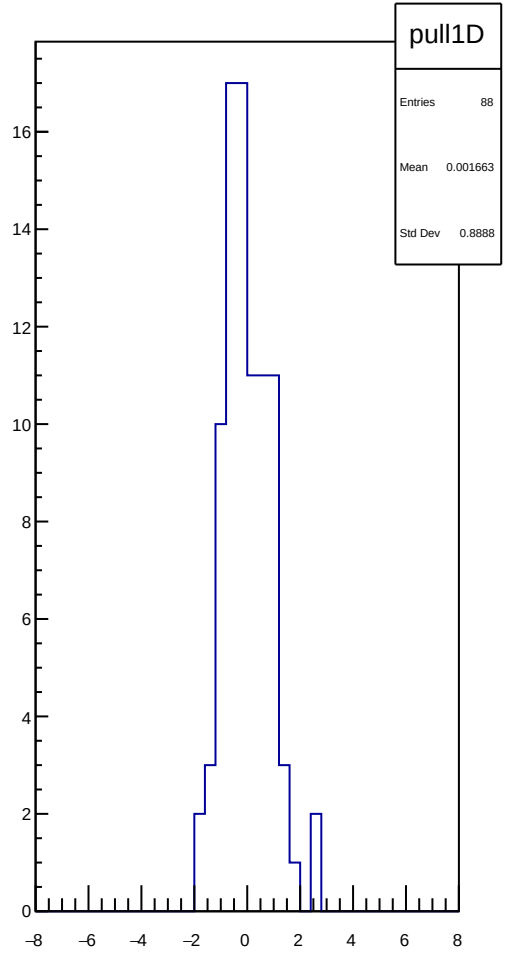

pull1D
Entries 88
Mean 0.002975
Std Dev 0.8963
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

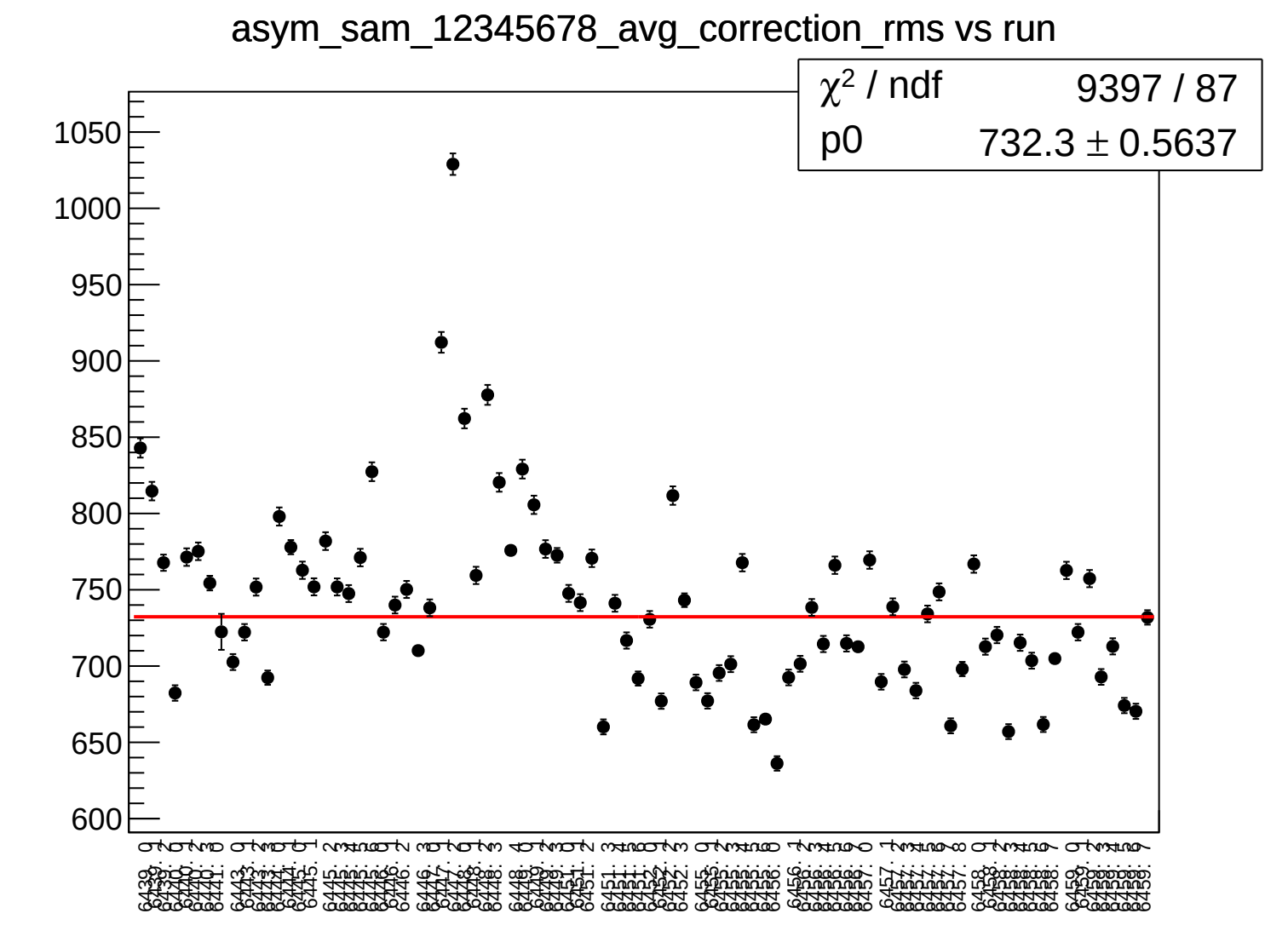

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.471e+04 / 87
p0 257.1 ± 0.1982
380
360
340
320
300
280
260
240
220
200

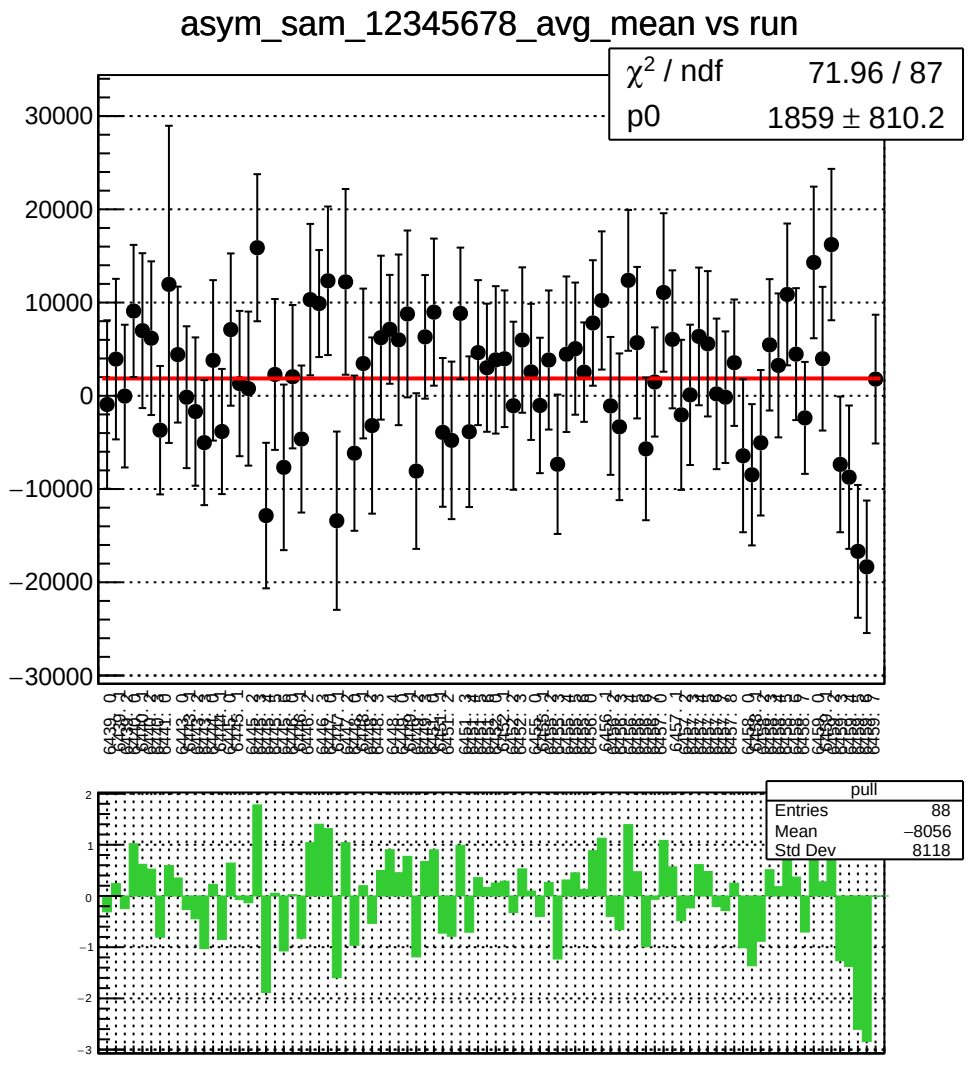

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 102.7 / 87
p0 28.7 ± 74.87
pull
Entries 88
Mean −46.53
Std Dev 96.75
pull1D
Entries 88
Mean 0.01564
Std Dev 1.08

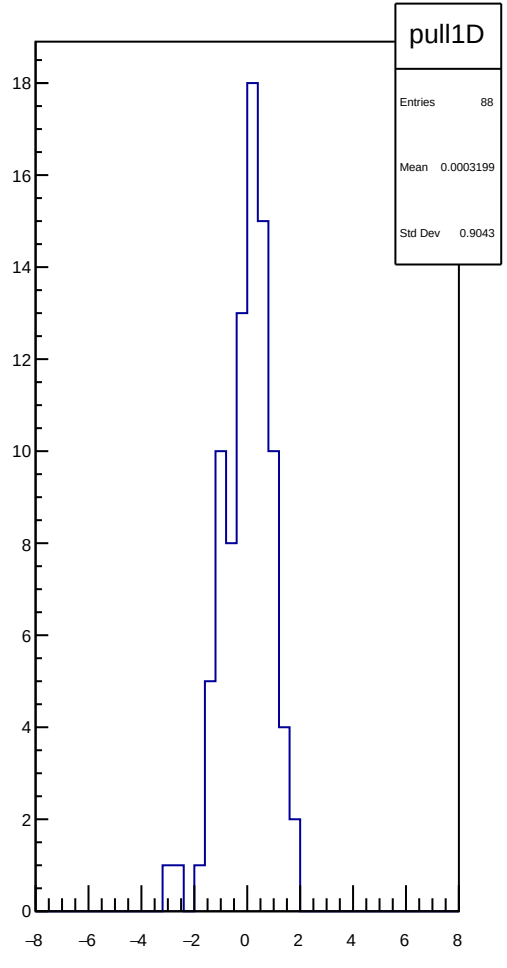

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.221e+04 / 87
p0 68.1 ± 0.05294
250
200
150
100
50

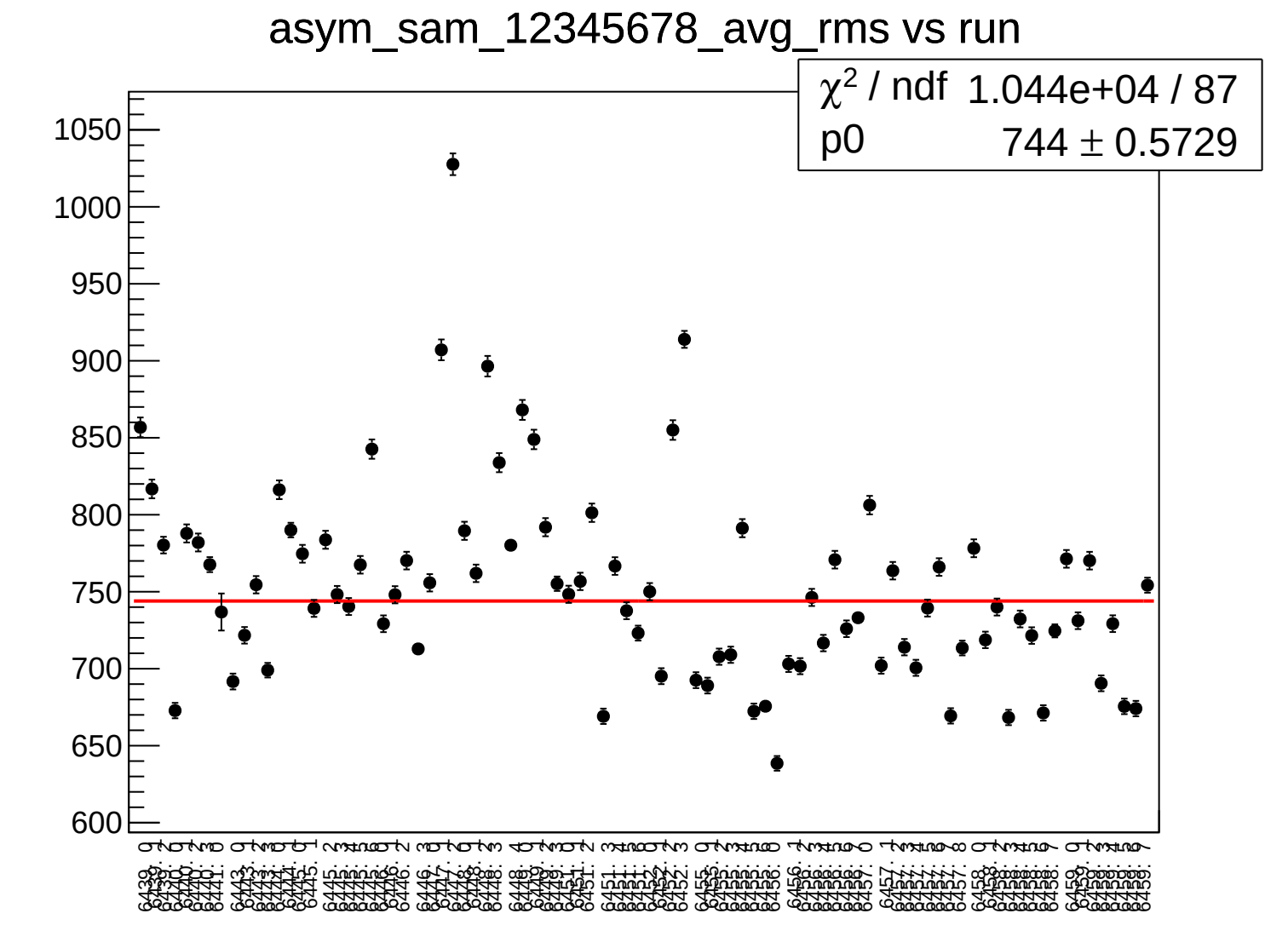

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 69.51 / 87
p0 −1799 ± 797.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 1494
Std Dev 1432
2
1
0
−1
−2

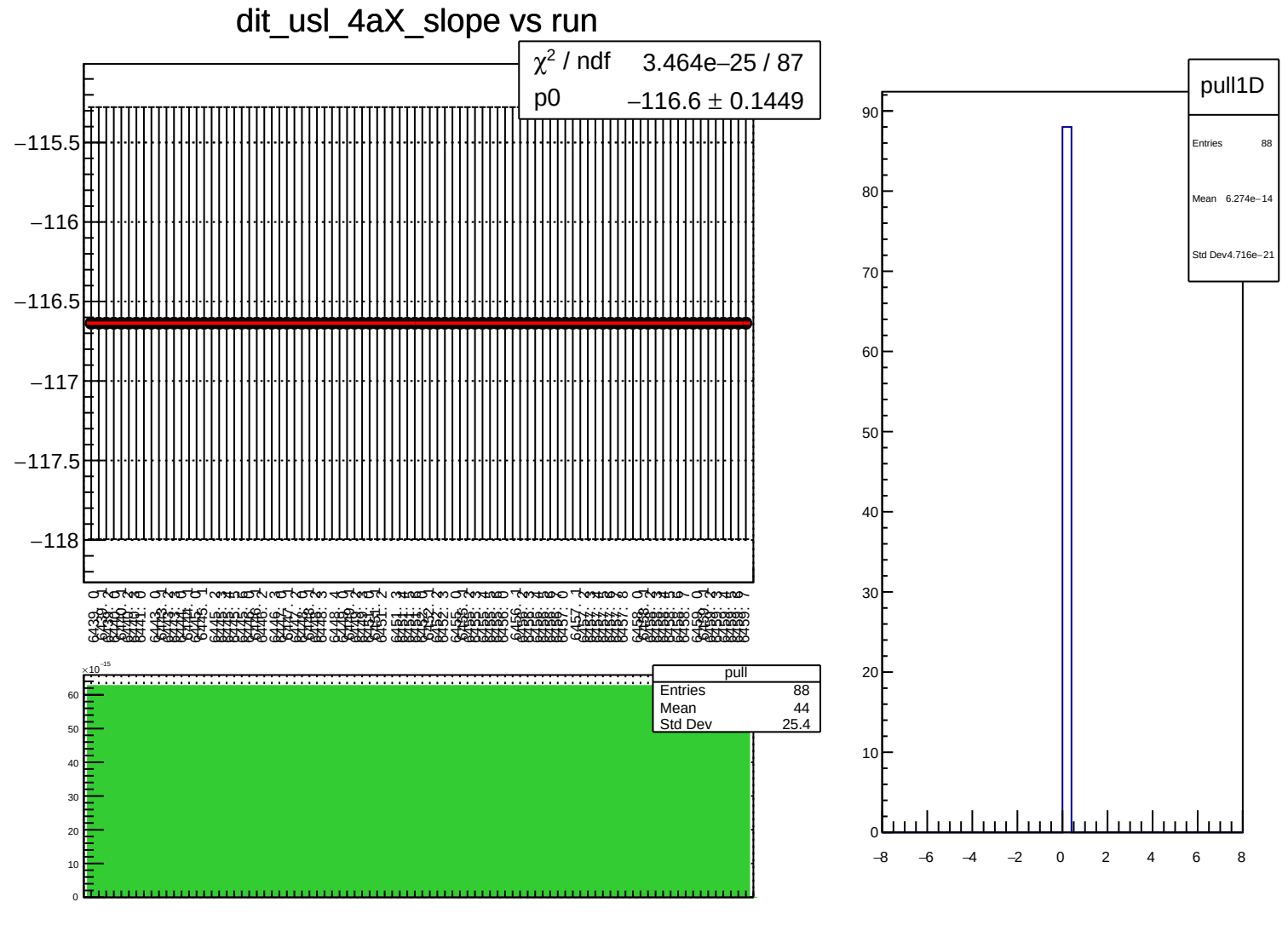

pull1D
Entries 88
Mean 0.001663
Std Dev 0.8888
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

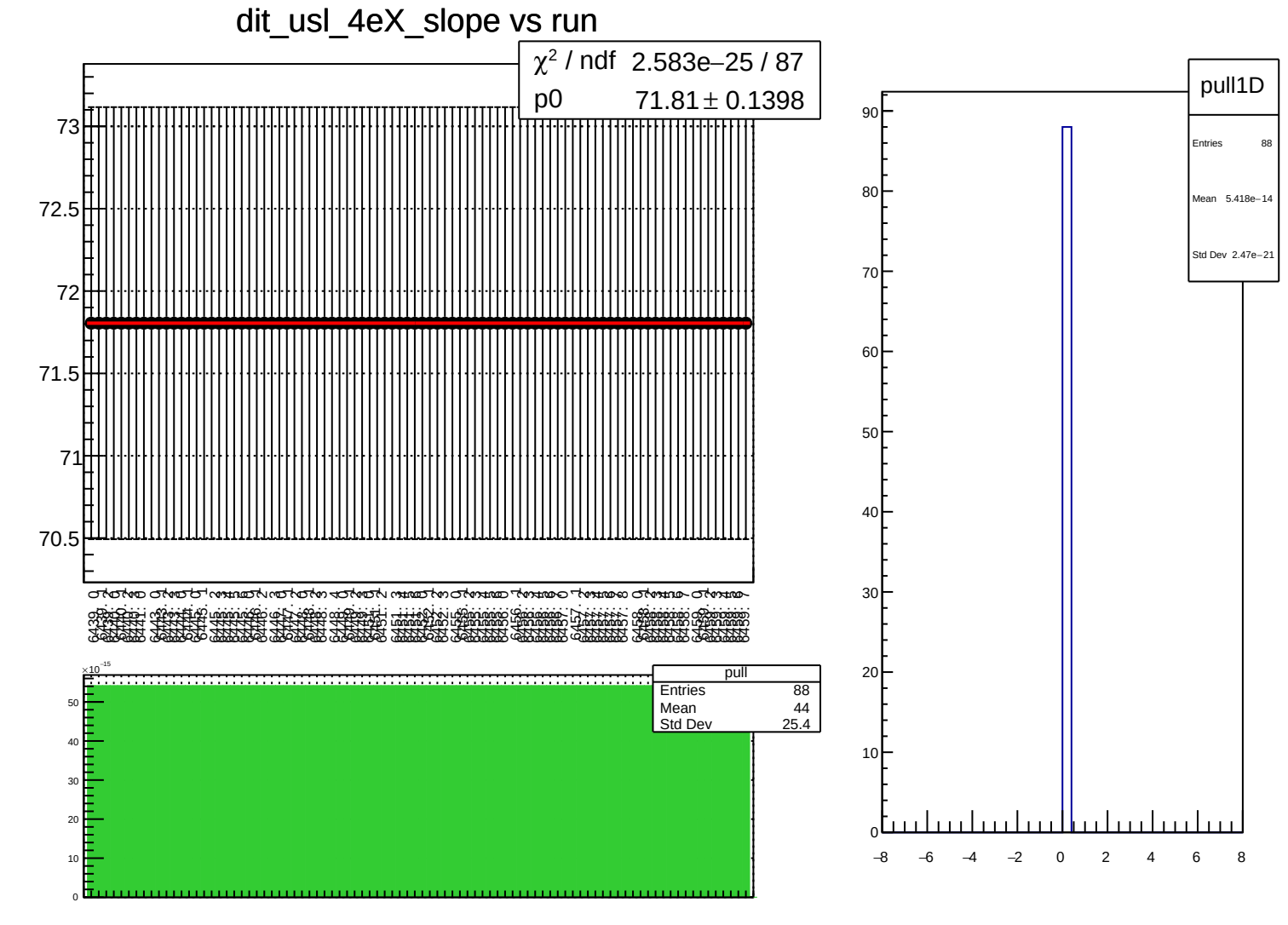

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 9397 / 87
p0 732.3 ± 0.5637
1050
1000
950
900
850
800
750
700
650
600

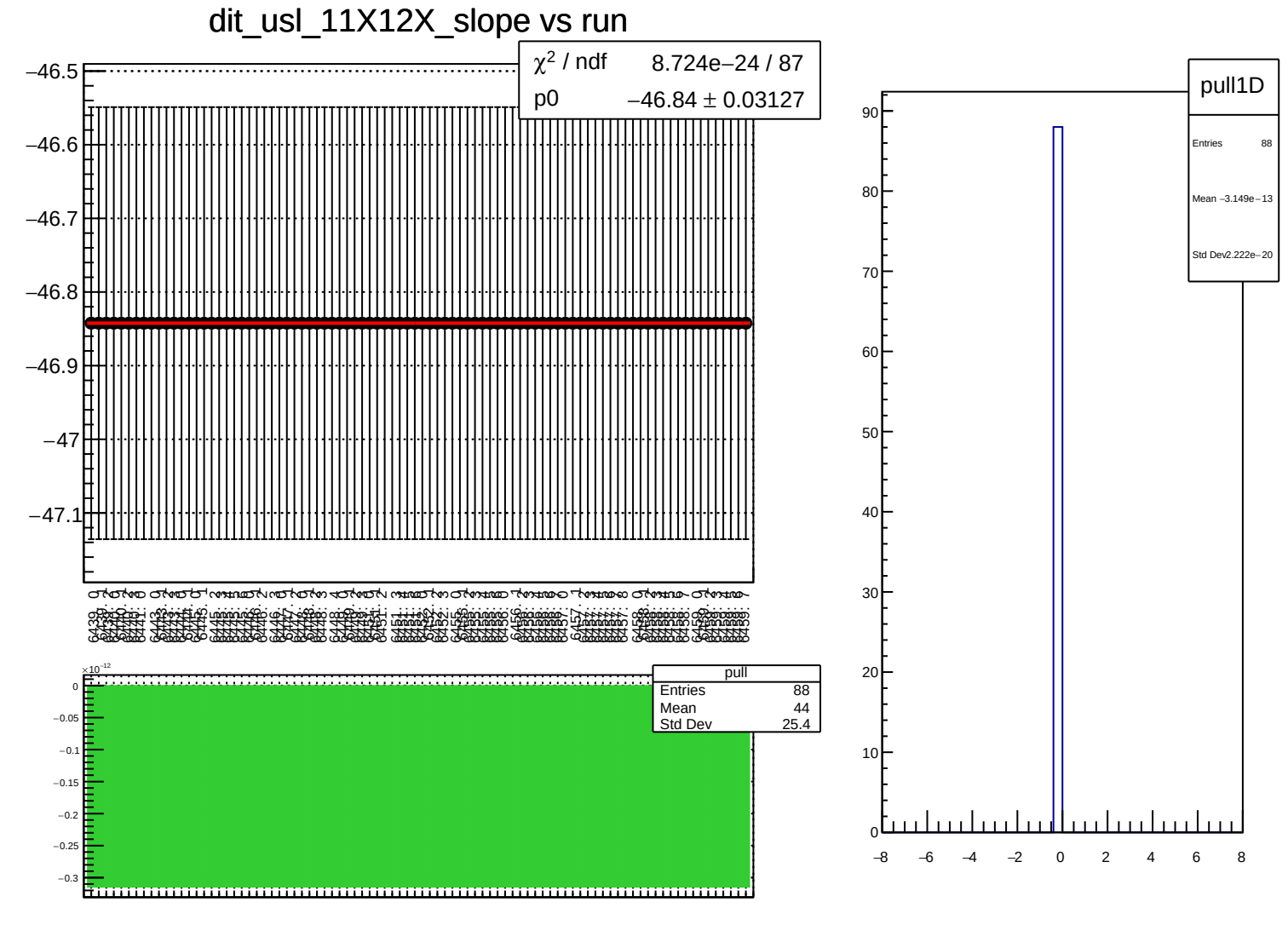

asym_sam_12345678_avg_mean vs run
χ² / ndf 71.96 / 87
p0 1859 ± 810.2
pull
Entries 88
Mean −8056
Std Dev 8118

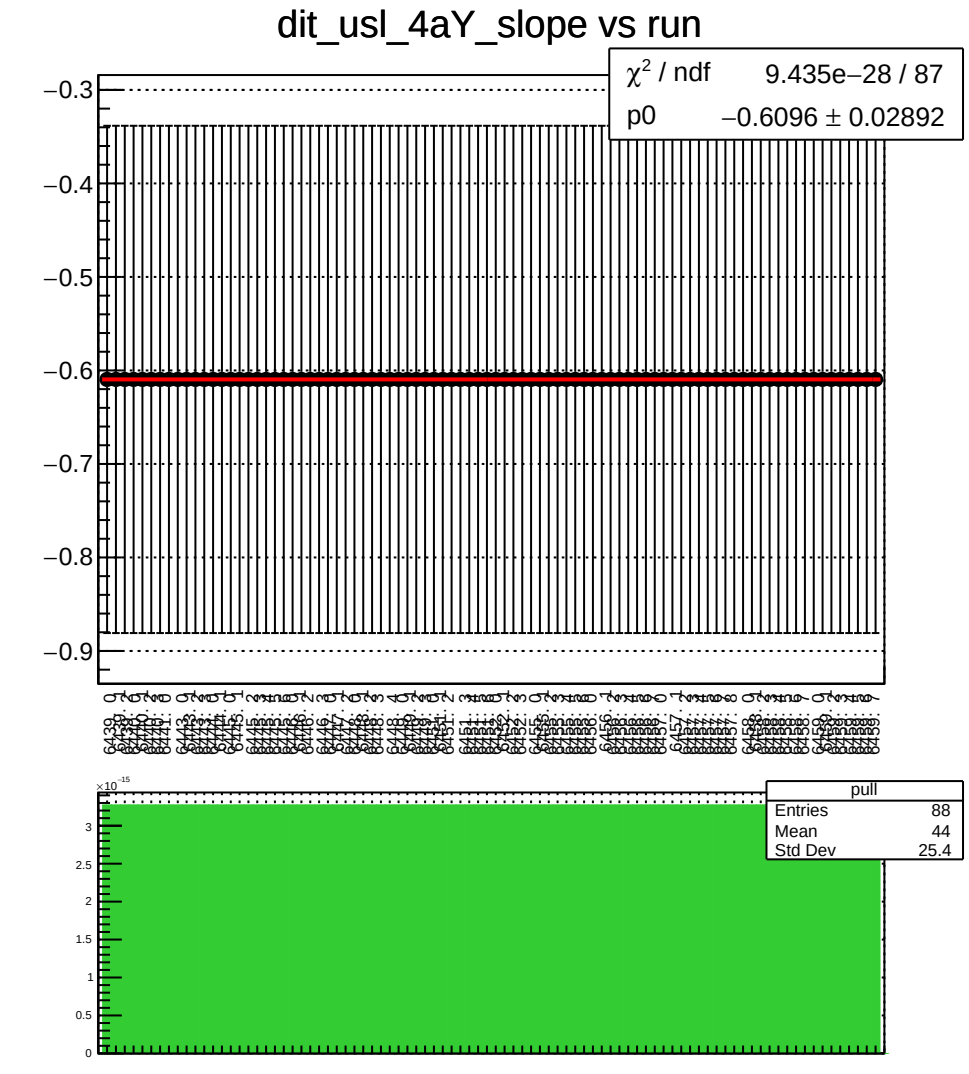

pull1D
Entries 88
Mean 0.0003199
Std Dev 0.9043

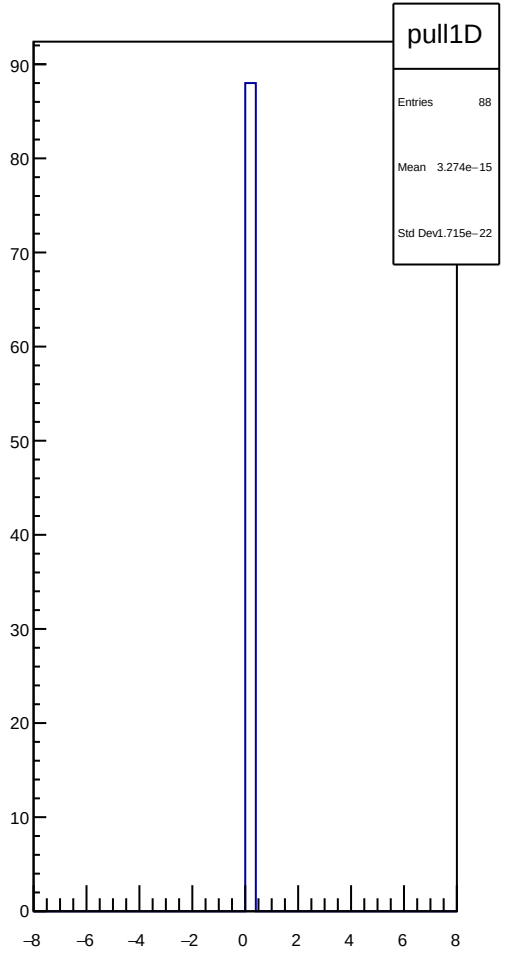

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.044e+04 / 87
p0 744 ± 0.5729
1050
1000
950
900
850
800
750
700
650
600

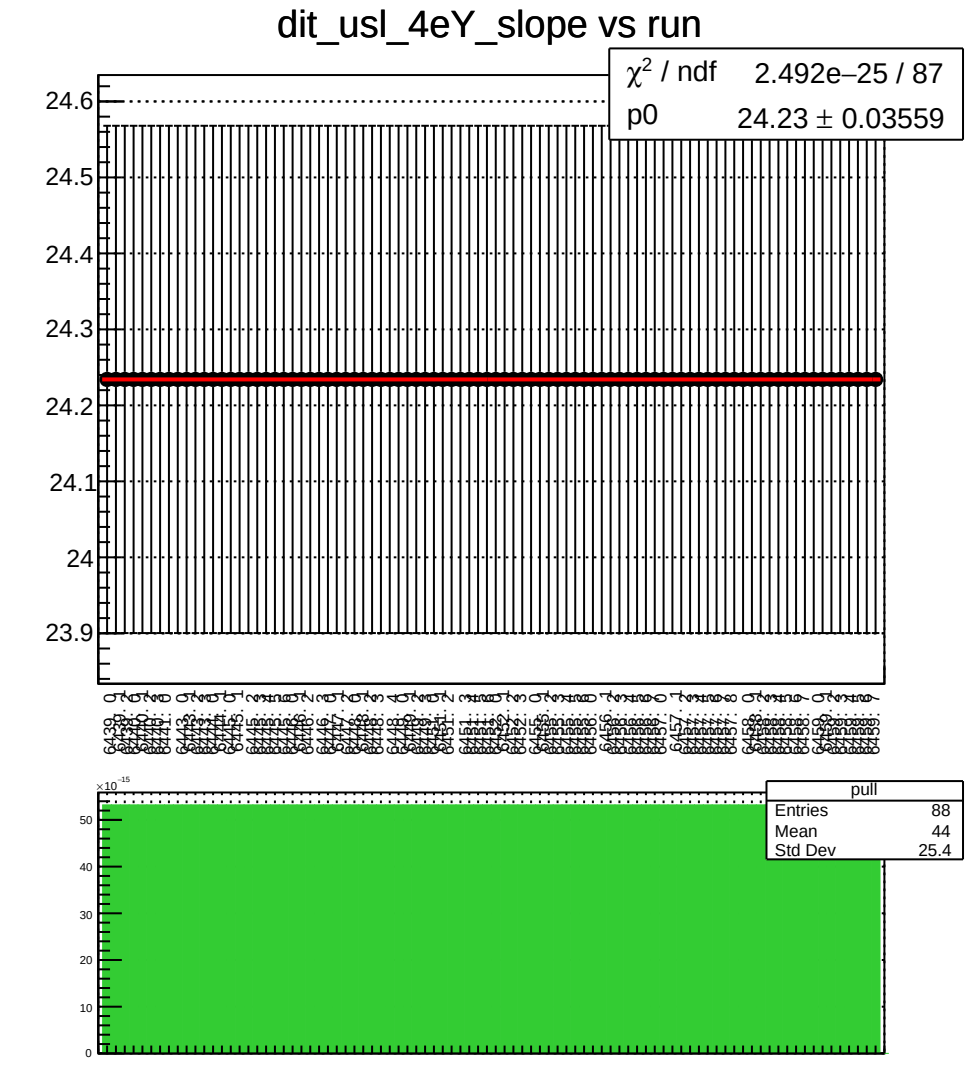

dit_usl_4aX_slope vs run
χ² / ndf 3.464e−25 / 87
p0 −116.6 ± 0.1449
−115.5
−116
−116.5
−117
−117.5
−118
pull
Entries 88
Mean 44
Std Dev 25.4
pull1D
Entries 88
Mean 6.274e−14
Std Dev4.716e−21

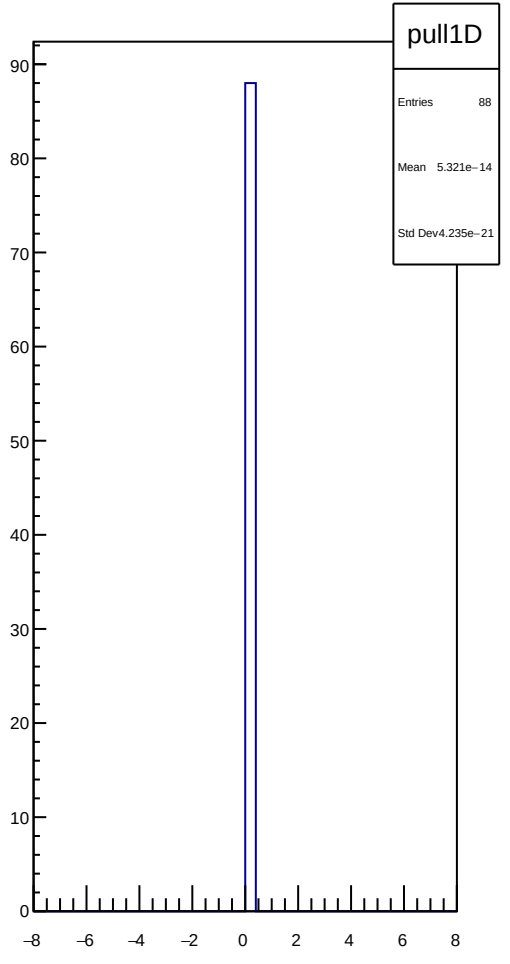

dit_usl_4eX_slope vs run
χ² / ndf 2.583e−25 / 87
p0 71.81 ± 0.1398
73
72.5
72
71.5
71
70.5
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
50
40
30
20
10
0
pull1D
Entries 88
Mean 5.418e−14
Std Dev 2.47e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

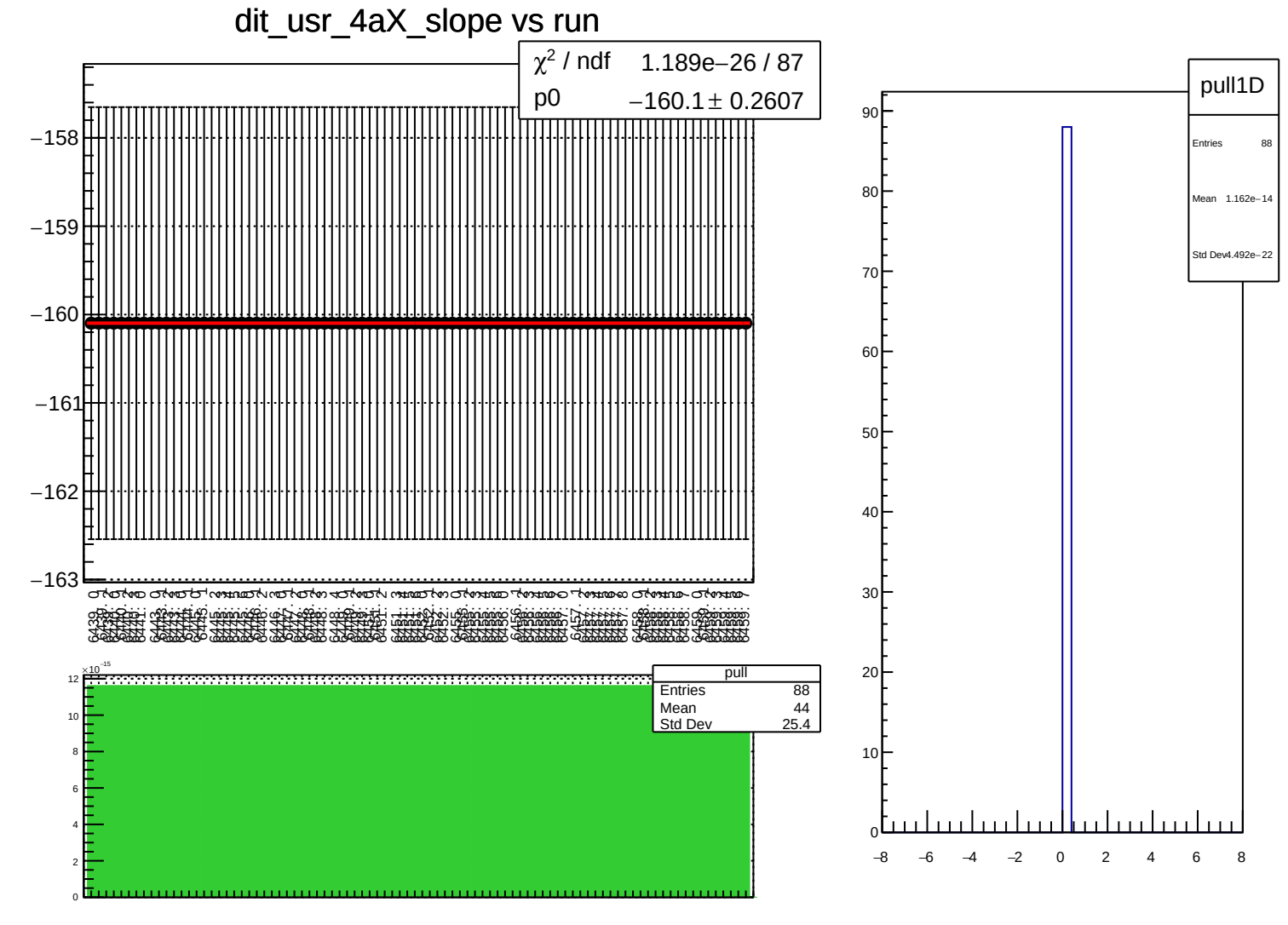

dit_usl_11X12X_slope vs run
χ² / ndf 8.724e−24 / 87
p0 −46.84 ± 0.03127
−46.5
−46.6
−46.7
−46.8
−46.9
−47
−47.1
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull1D
Entries 88
Mean −3.149e−13
Std Dev 2.222e−20
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

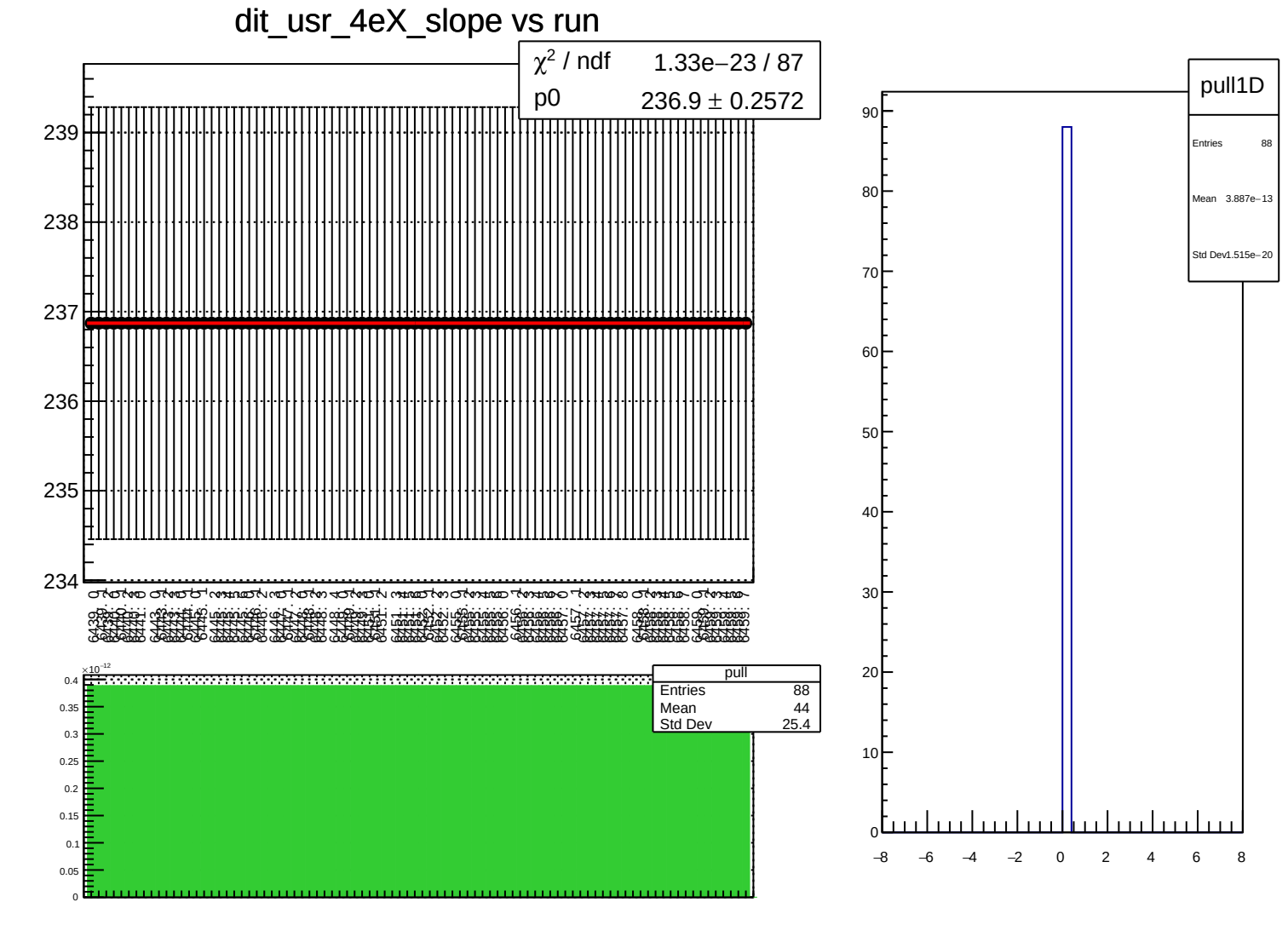

dit_usl_4aY_slope vs run
χ^2 / ndf 9.435e−28 / 87
p0 −0.6096 ± 0.02892
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
pull
Entries 88
Mean 44
Std Dev 25.4
×10^-15
3
2.5
2
1.5
1
0.5
0

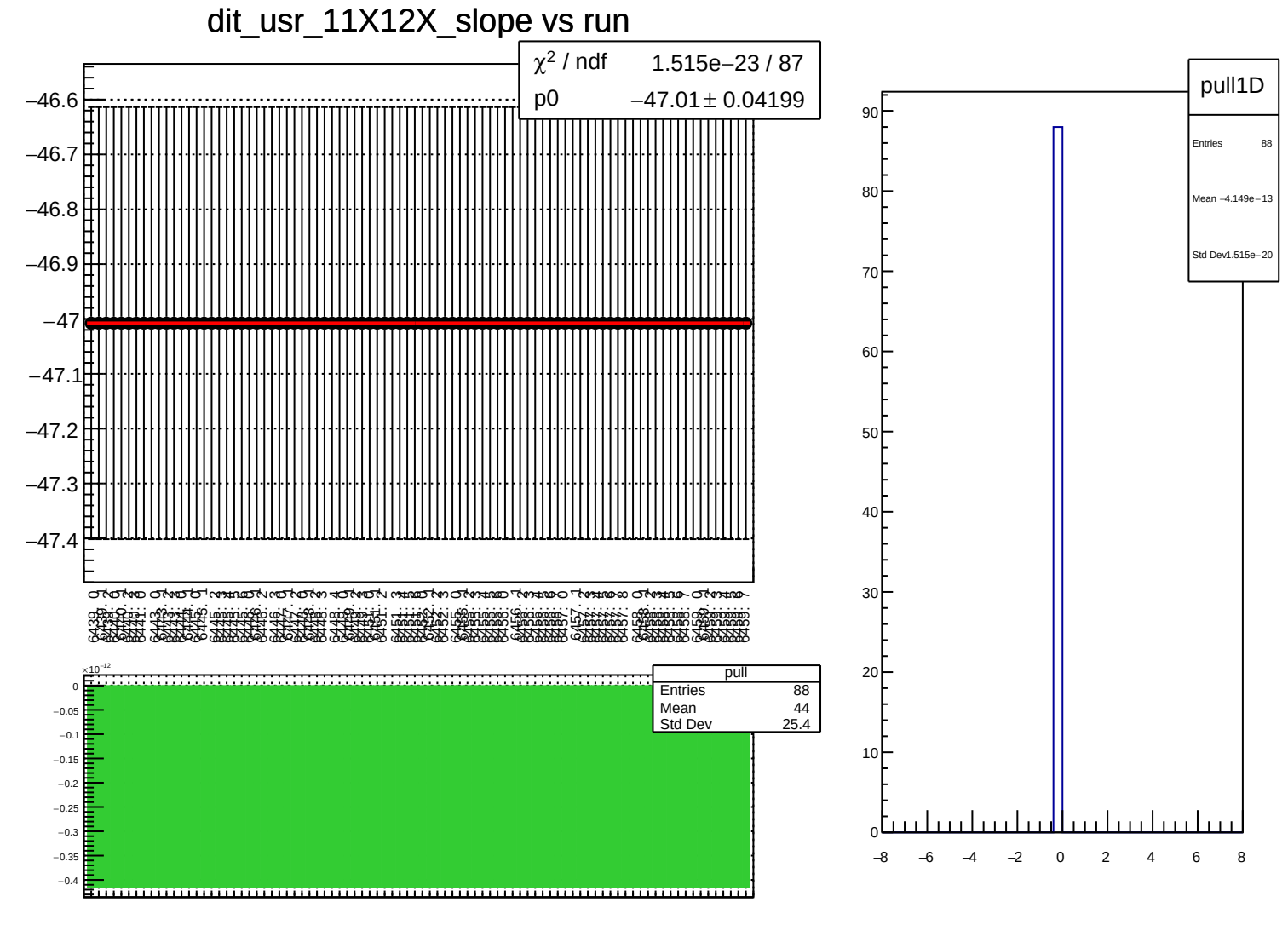

pull1D
Entries 88
Mean 3.274e−15
Std Dev1.715e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

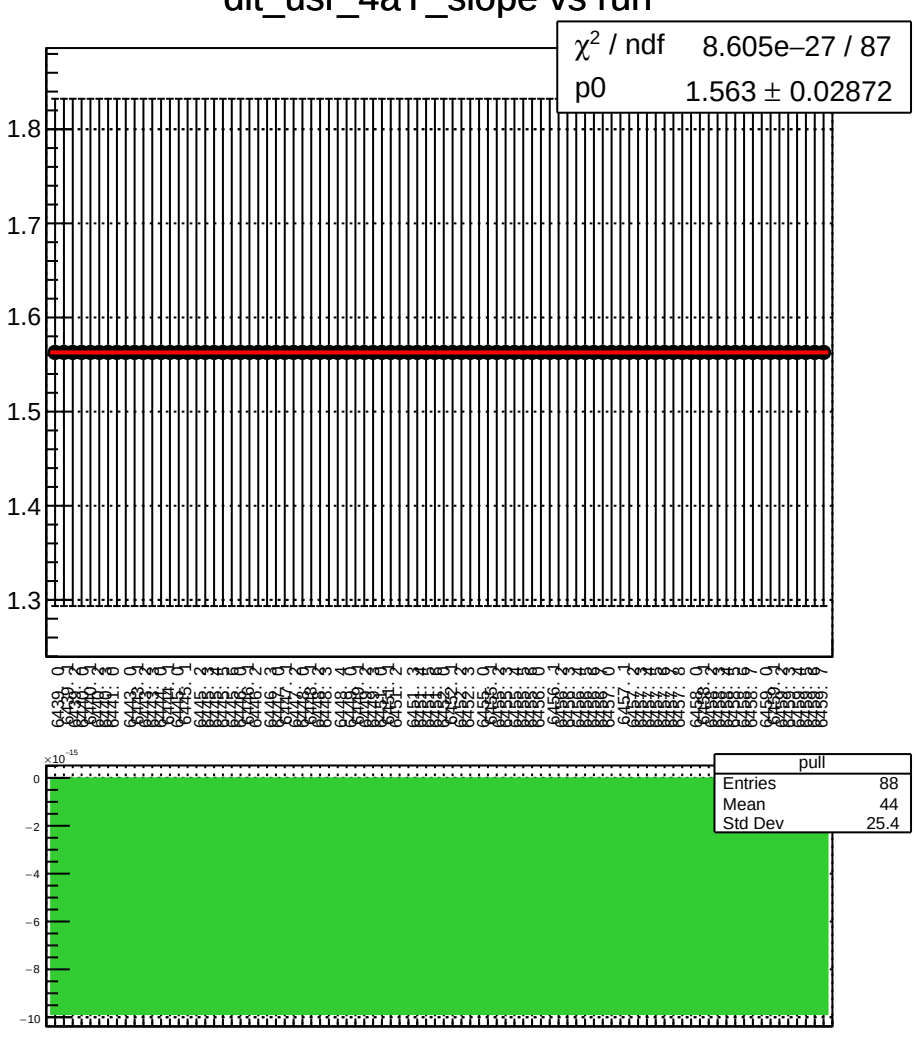

dit_usl_4eY_slope vs run
χ² / ndf 2.492e−25 / 87
p0 24.23 ± 0.03559
24.6
24.5
24.4
24.3
24.2
24.1
24
23.9
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
50
40
30
20
10
0

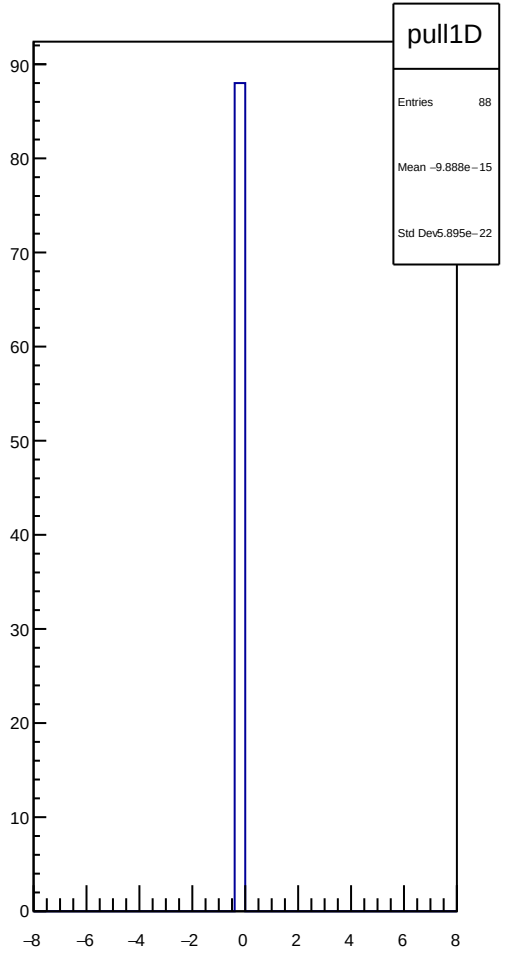

pull1D
Entries 88
Mean 5.321e−14
Std Dev4.235e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

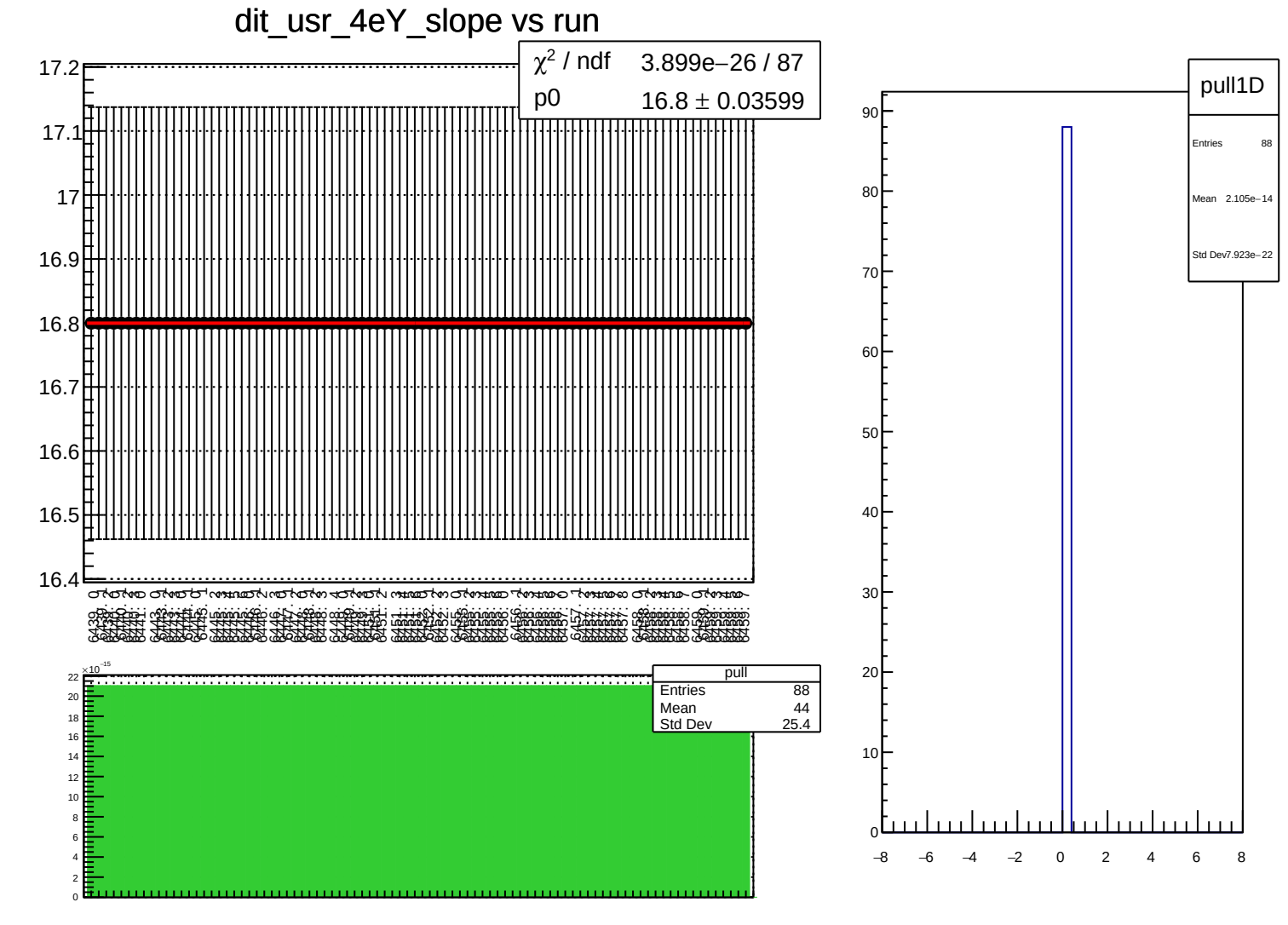

dit_usr_4aX_slope vs run
χ² / ndf 1.189e−26 / 87
p0 −160.1 ± 0.2607
−158
−159
−160
−161
−162
−163
pull
Entries 88
Mean 44
Std Dev 25.4
pull1D
Entries 88
Mean 1.162e−14
Std Dev 4.492e−22

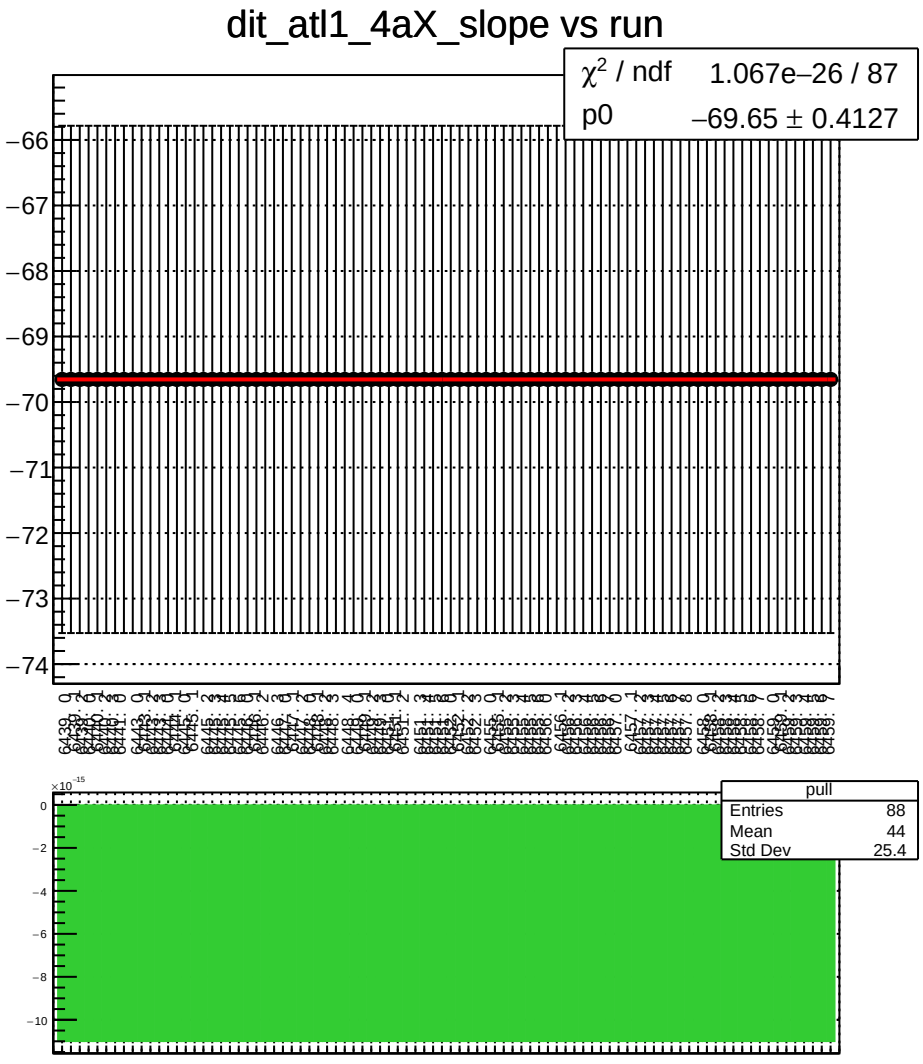

dit_usr_4eX_slope vs run
χ² / ndf 1.33e−23 / 87
p0 236.9 ± 0.2572
239
238
237
236
235
234
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
pull1D
Entries 88
Mean 3.887e−13
Std Dev1.515e−20
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

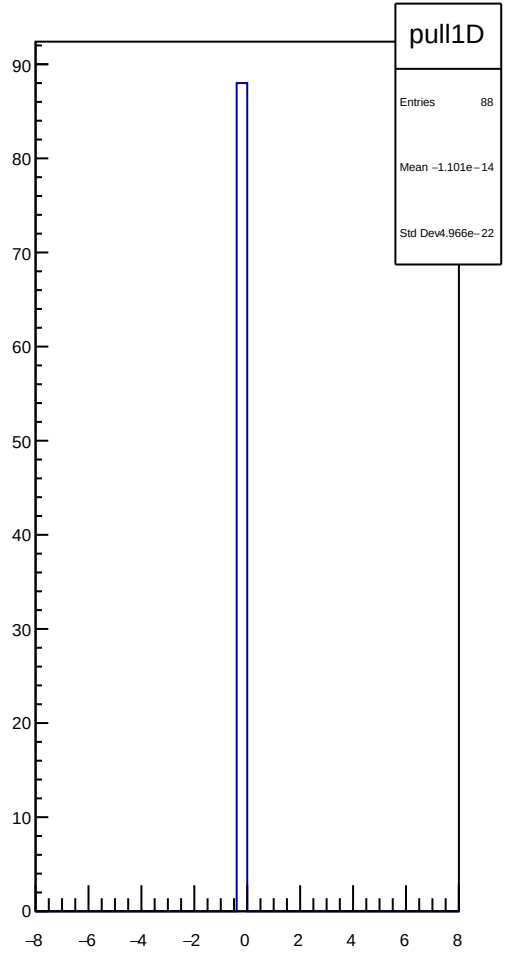

dit_usr_11X12X_slope vs run
χ² / ndf 1.515e−23 / 87
p0 −47.01 ± 0.04199
−46.6
−46.7
−46.8
−46.9
−47
−47.1
−47.2
−47.3
−47.4
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
pull1D
Entries 88
Mean −4.149e−13
Std Dev1.515e−20
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

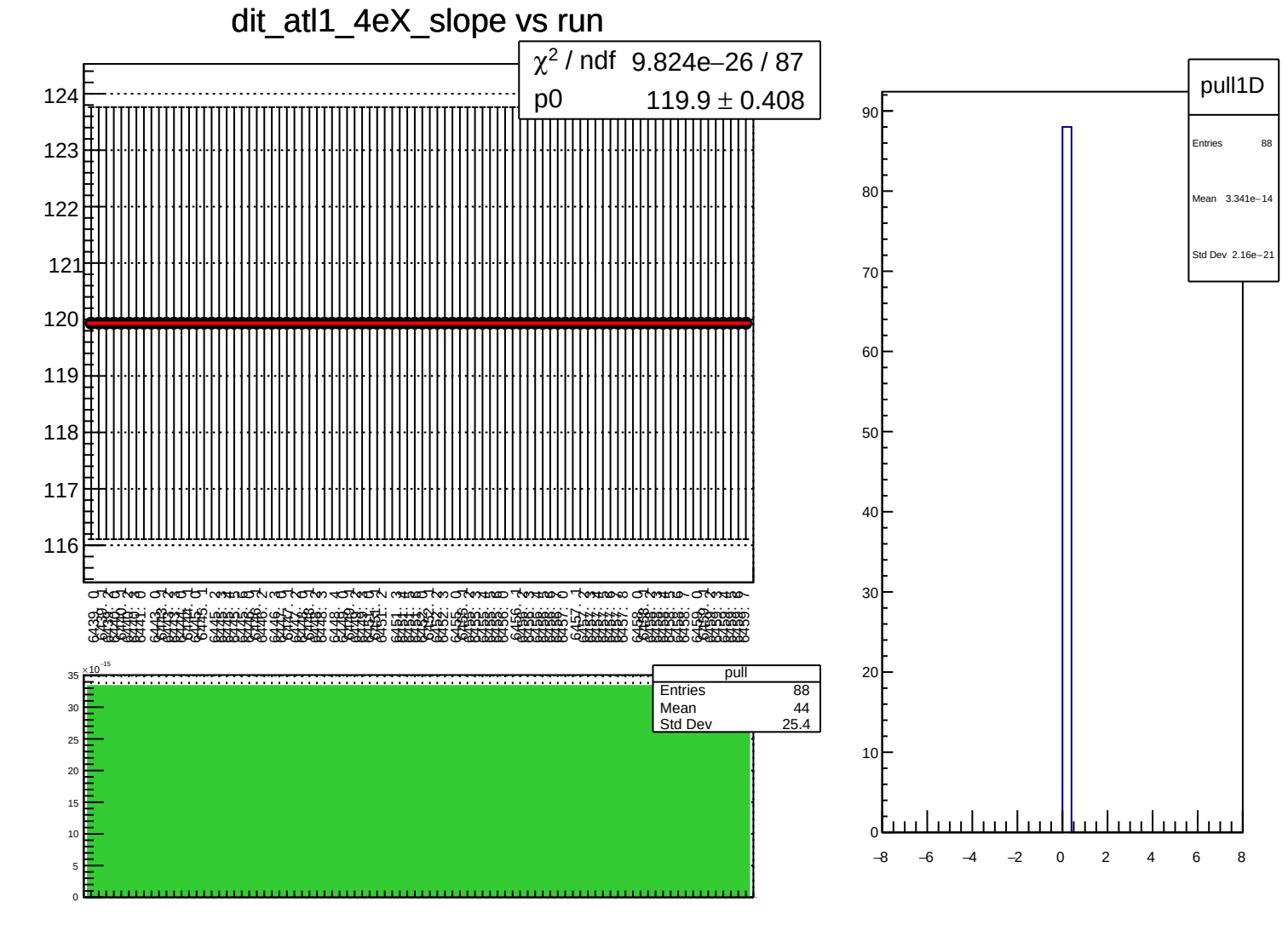

dit_usr_4aY_slope vs run
χ² / ndf 8.605e−27 / 87
p0 1.563 ± 0.02872
1.8
1.7
1.6
1.5
1.4
1.3
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0
−2
−4
−6
−8
−10

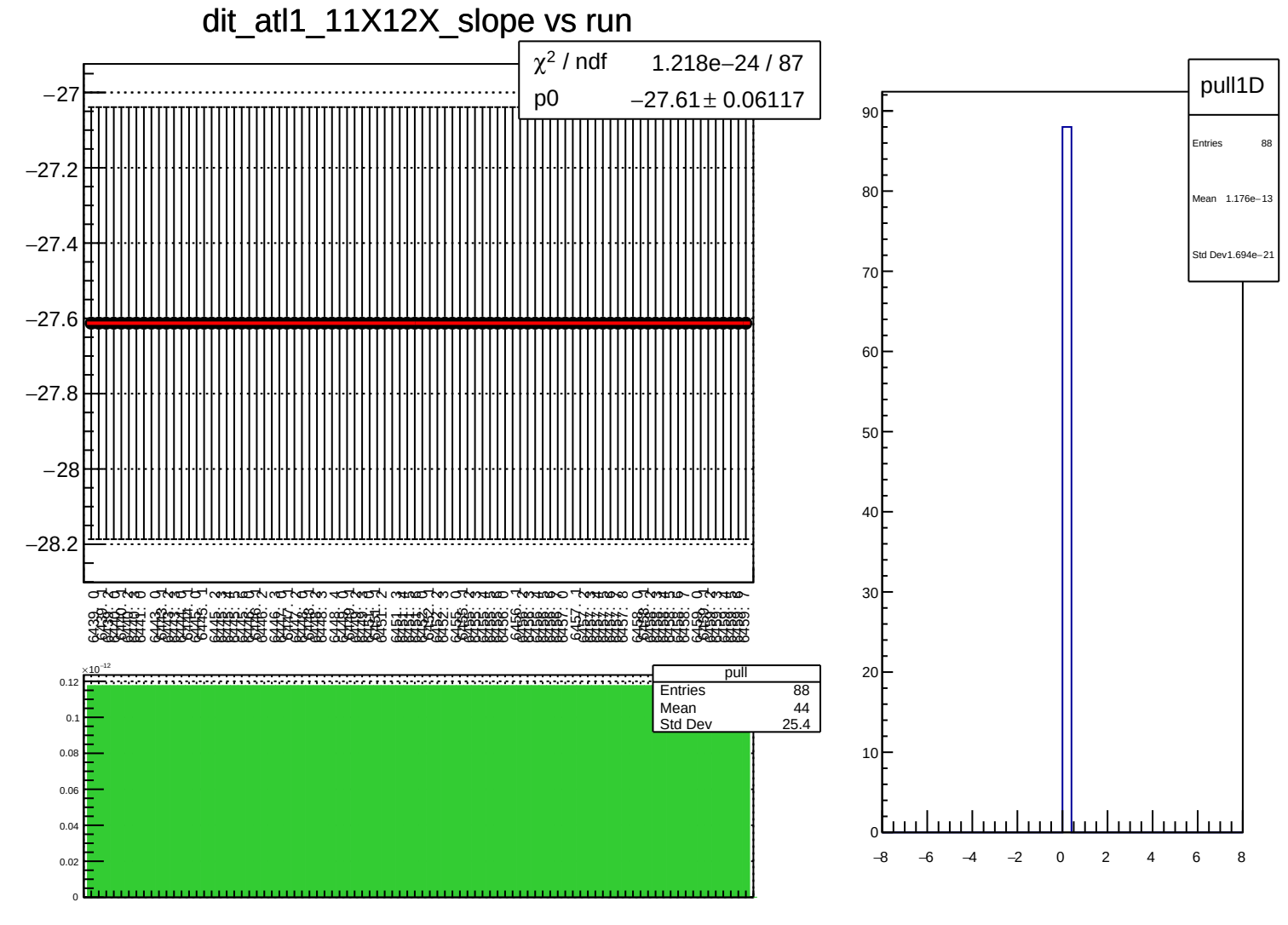

pull1D
Entries 88
Mean −9.888e−15
Std Dev5.895e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_usr_4eY_slope vs run
χ² / ndf 3.899e−26 / 87
p0 16.8 ± 0.03599
17.2
17.1
17
16.9
16.8
16.7
16.6
16.5
16.4
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 88
Mean 2.105e−14
Std Dev7.923e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_atl1_4aX_slope vs run
χ² / ndf 1.067e−26 / 87
p0 −69.65 ± 0.4127
−66
−67
−68
−69
−70
−71
−72
−73
−74
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0
−2
−4
−6
−8
−10


pull1D
Entries 88
Mean −1.101e−14
Std Dev 4.966e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_atl1_4eX_slope vs run
χ^2 / ndf 9.824e−26 / 87
p0 119.9 ± 0.408
124
123
122
121
120
119
118
117
116
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
35
30
25
20
15
10
5
0
pull1D
Entries 88
Mean 3.341e−14
Std Dev 2.16e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_atl1_11X12X_slope vs run
χ² / ndf 1.218e−24 / 87
p0 −27.61 ± 0.06117
−27
−27.2
−27.4
−27.6
−27.8
−28
−28.2
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0.12
0.1
0.08
0.06
0.04
0.02
0
pull1D
Entries 88
Mean 1.176e−13
Std Dev1.694e−21
90
80
70
60
50
40
30
20
10
0
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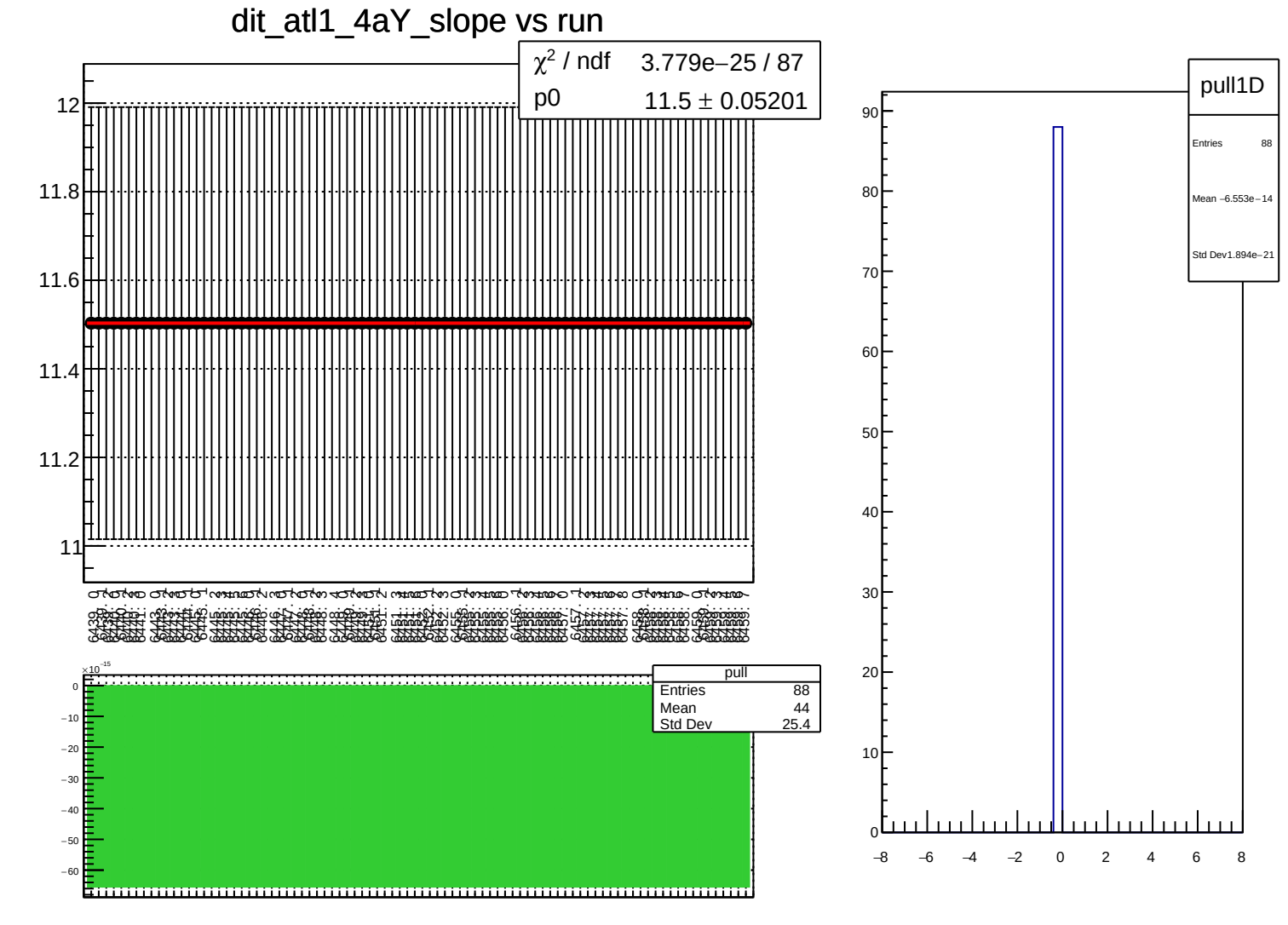
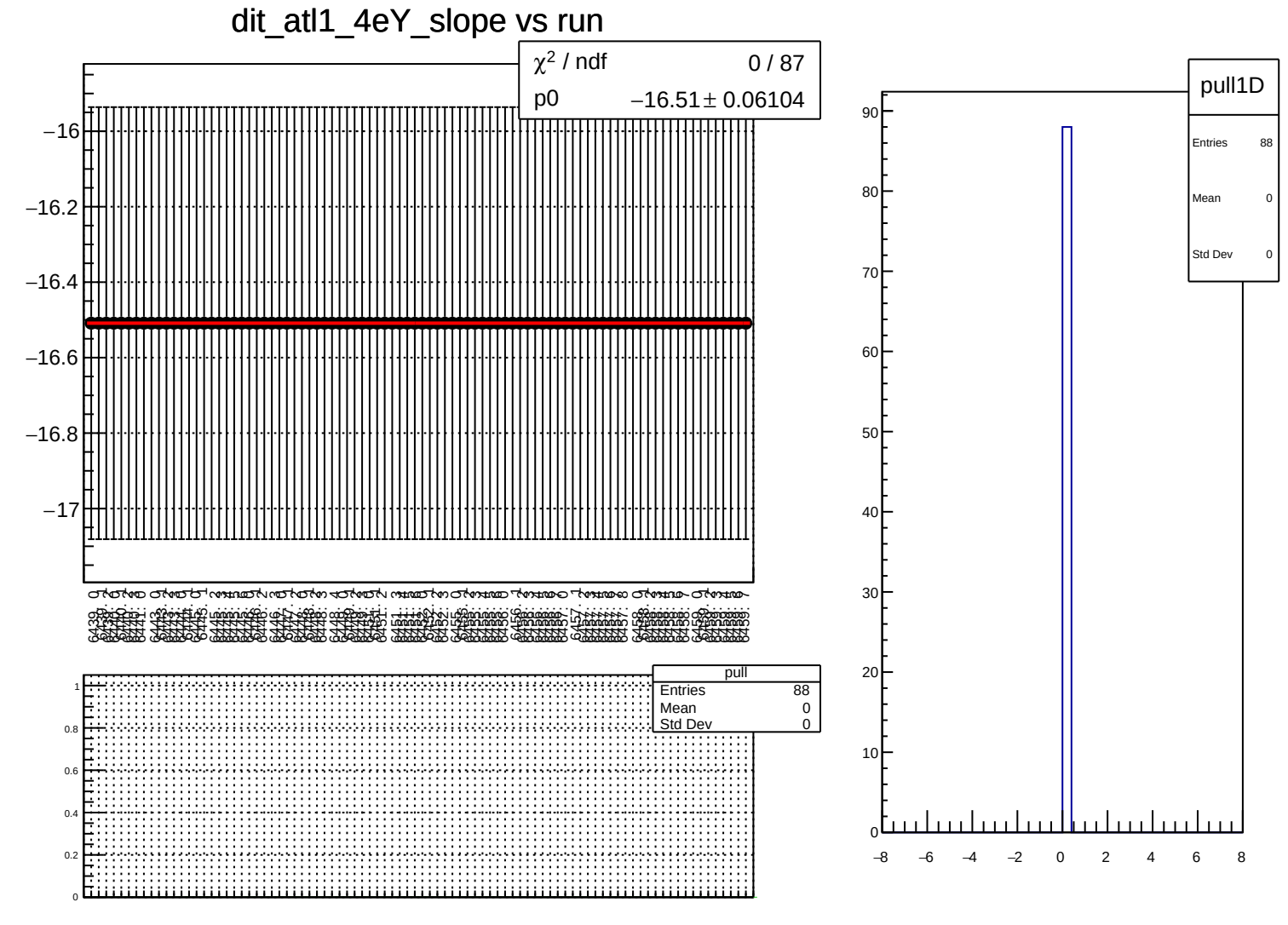
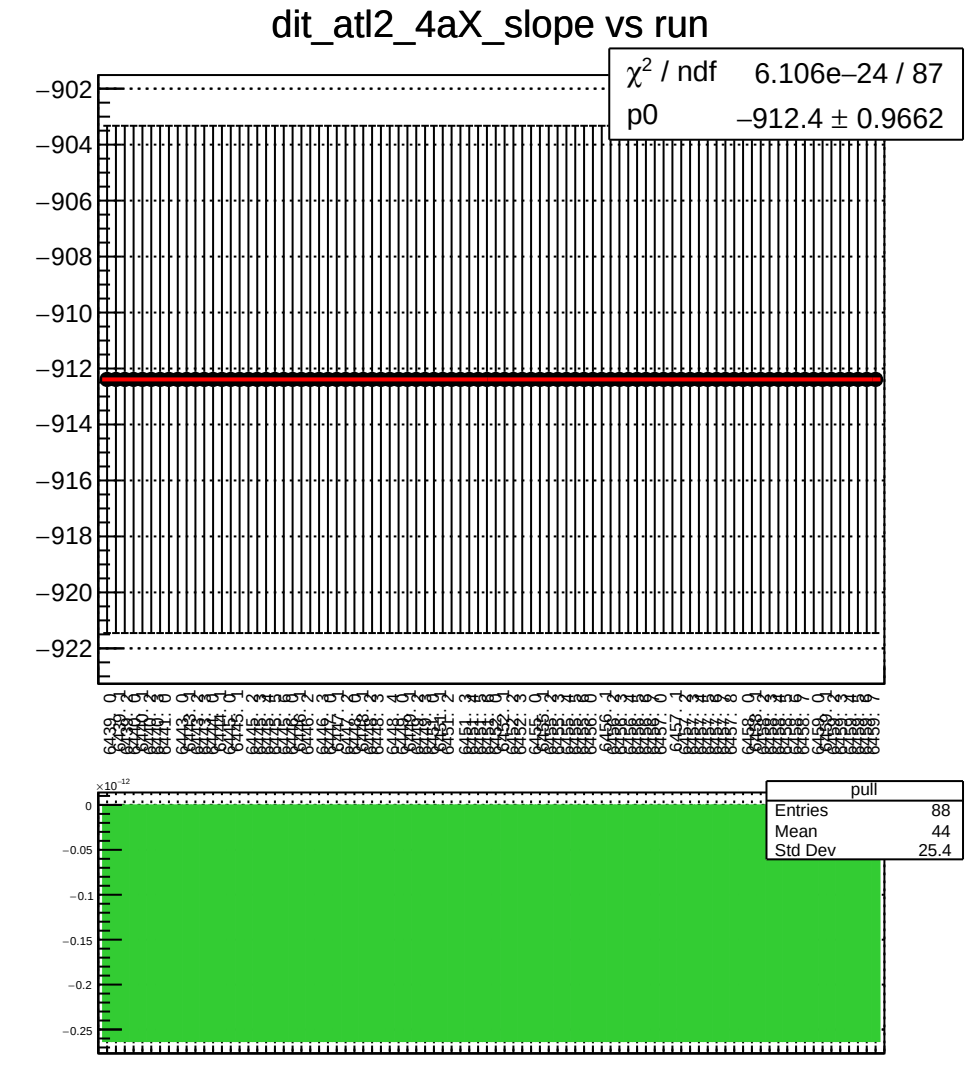
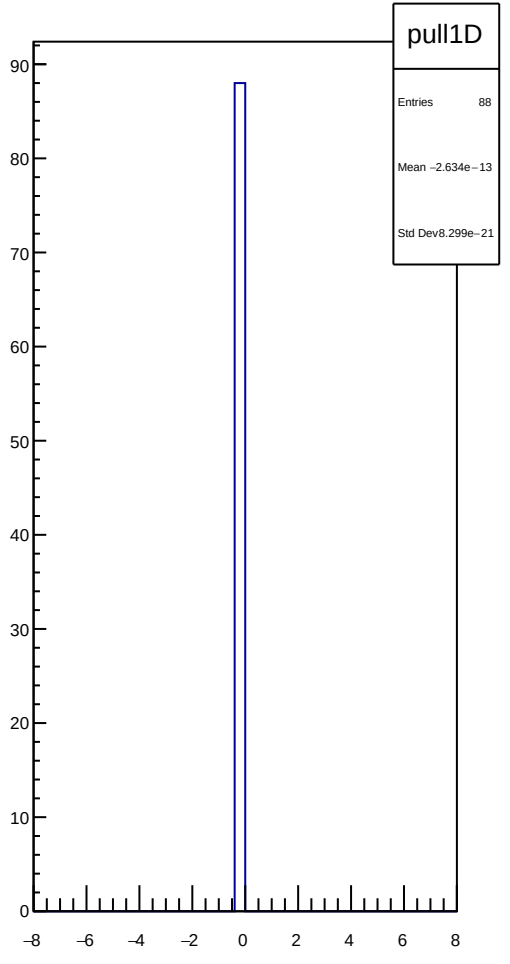
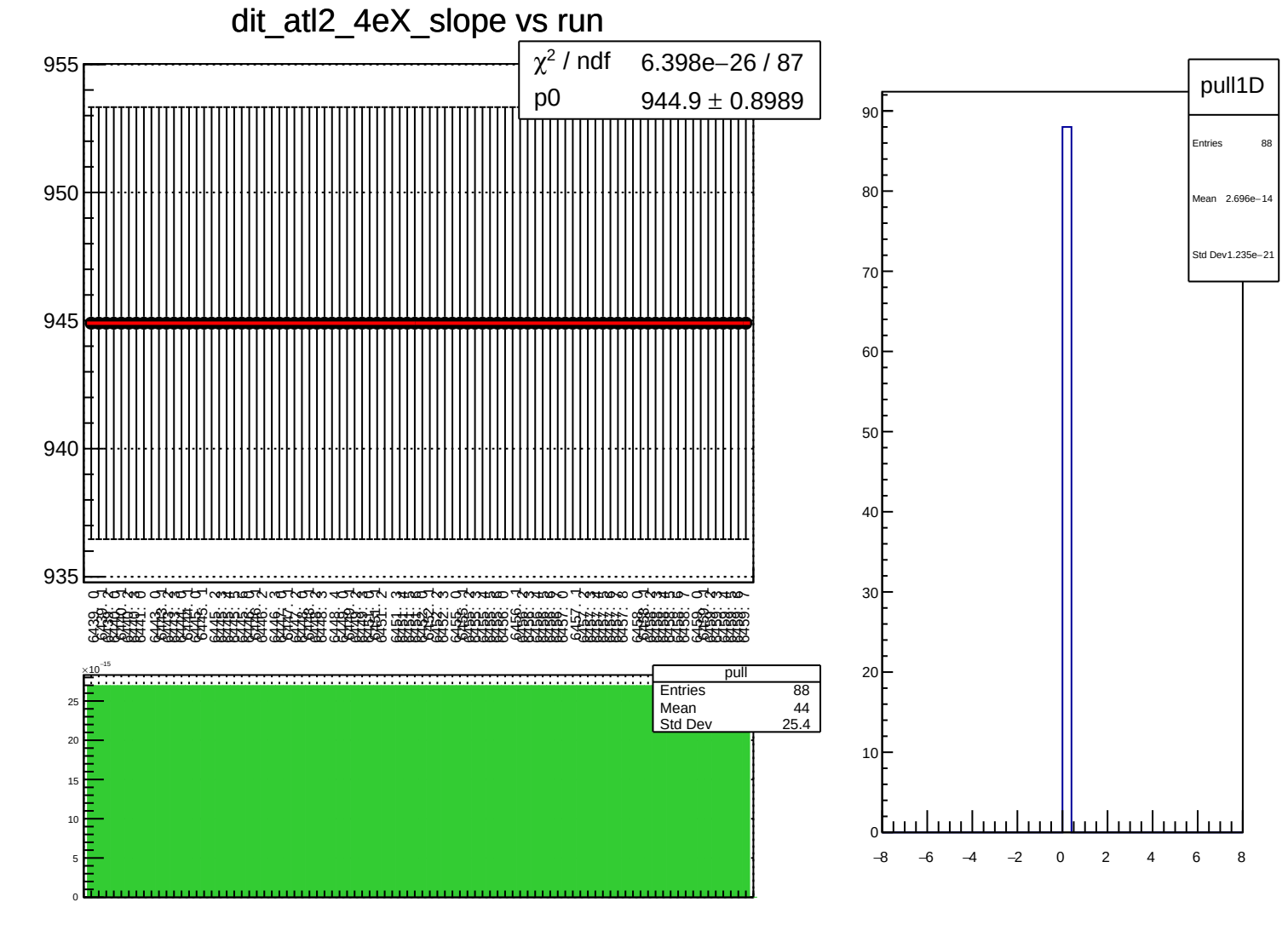
−6
−4
−2
0
2
4
6
8


dit_atl1_4aY_slope vs run
χ² / ndf 3.779e−25 / 87
p0 11.5 ± 0.05201
12
11.8
11.6
11.4
11.2
11
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 88
Mean −6.553e−14
Std Dev1.894e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_atl1_4eY_slope vs run
χ² / ndf 0 / 87
p0 −16.51 ± 0.06104
−16
−16.2
−16.4
−16.6
−16.8
−17
pull
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 88
Mean 0
Std Dev 0
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_atl2_4aX_slope vs run
χ² / ndf 6.106e−24 / 87
p0 −912.4 ± 0.9662
−902
−904
−906
−908
−910
−912
−914
−916
−918
−920
−922
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25


pull1D
Entries 88
Mean −2.634e−13
Std Dev8.299e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_atl2_4eX_slope vs run
χ² / ndf 6.398e−26 / 87
p0 944.9 ± 0.8989
955
950
945
940
935
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
25
20
15
10
5
0
pull1D
Entries 88
Mean 2.696e−14
Std Dev1.235e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
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2
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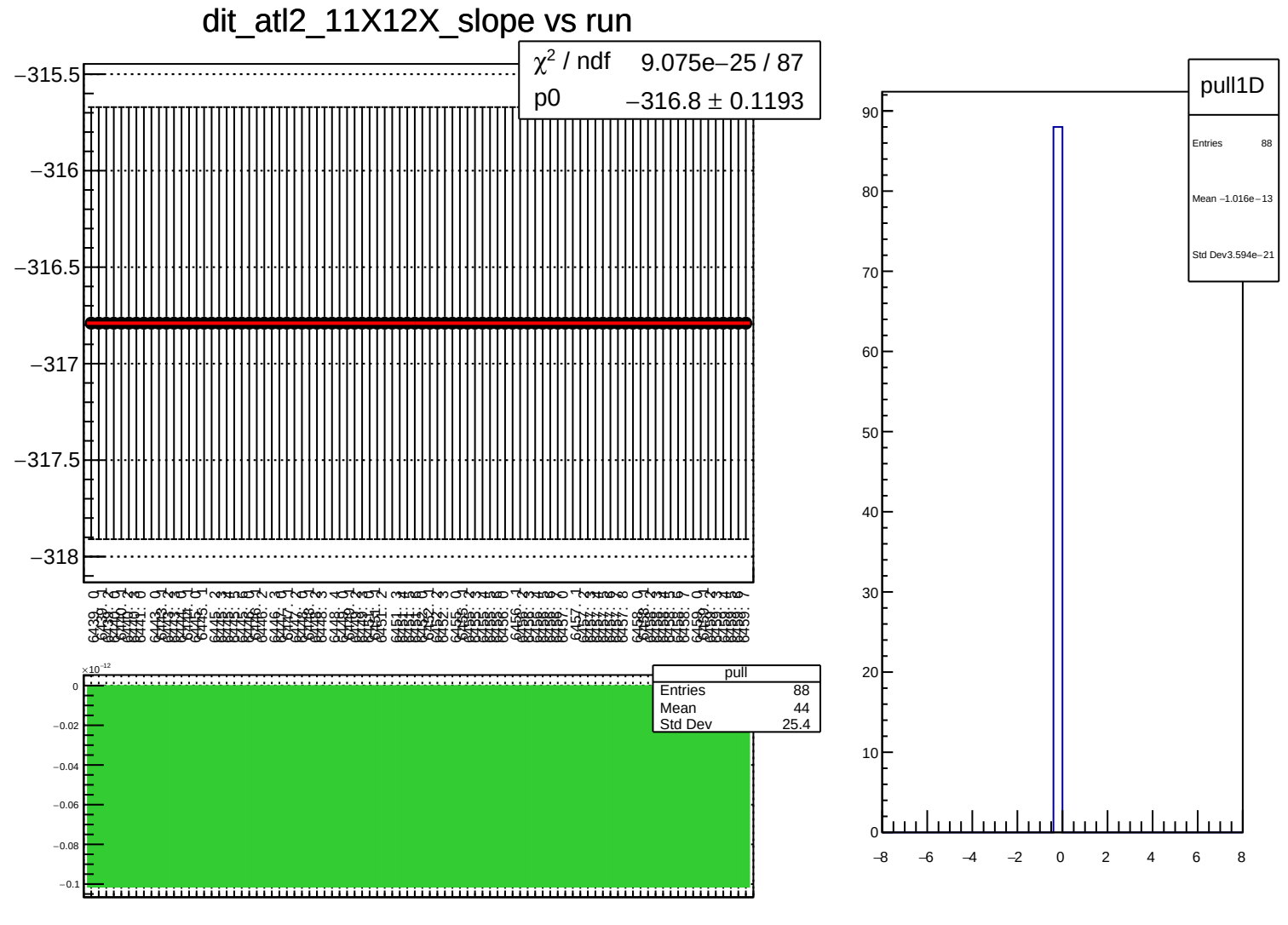
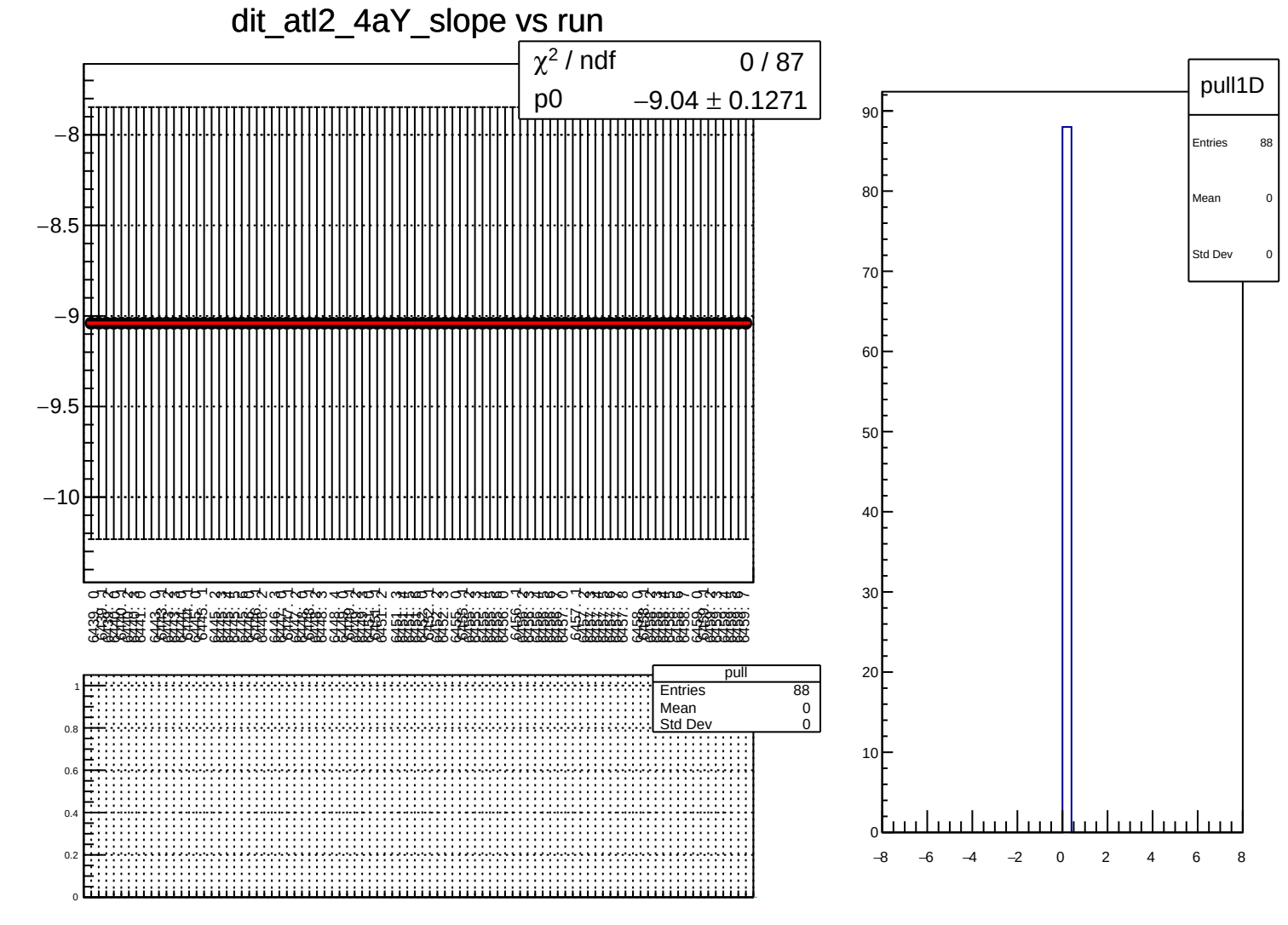
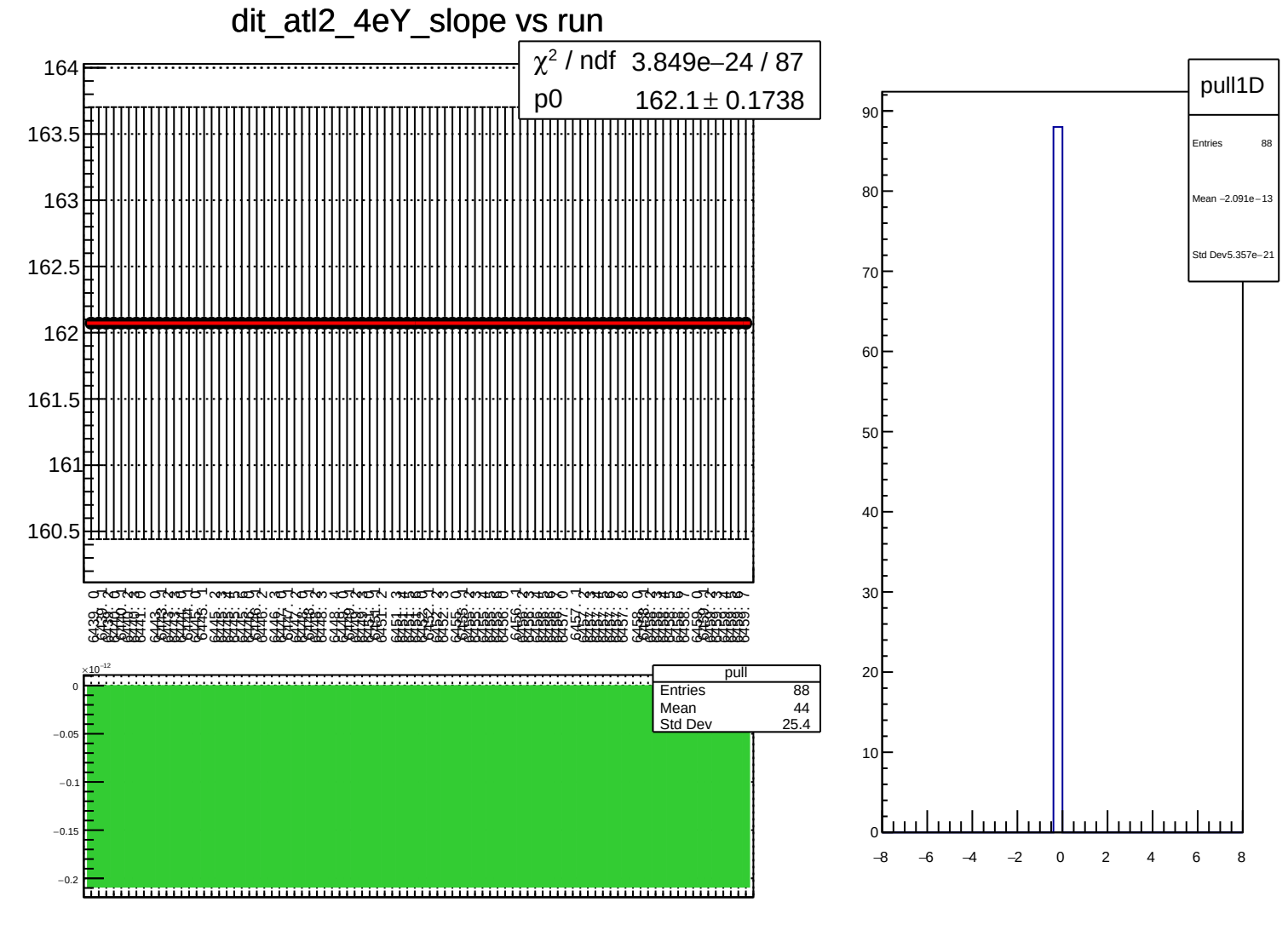
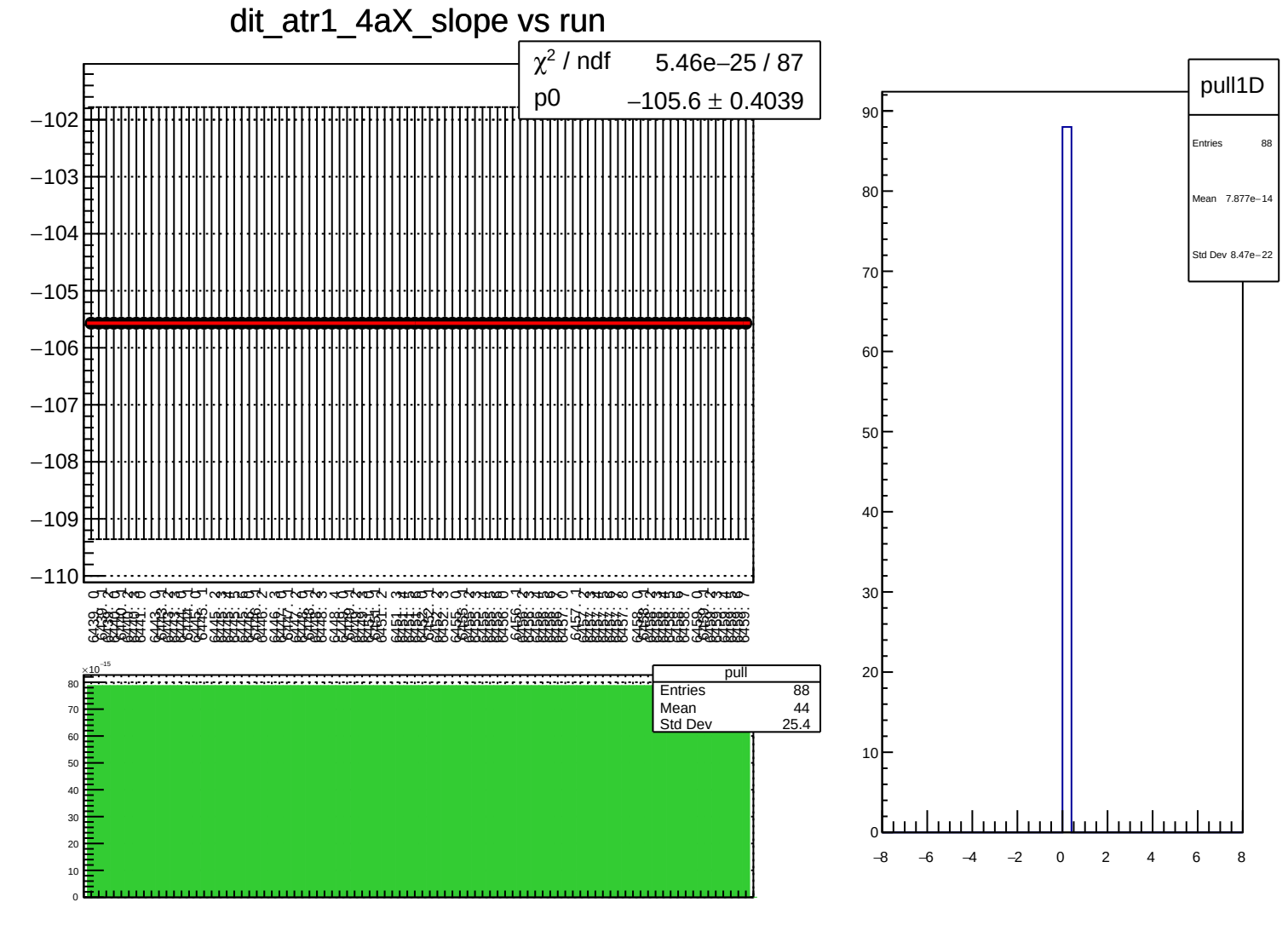
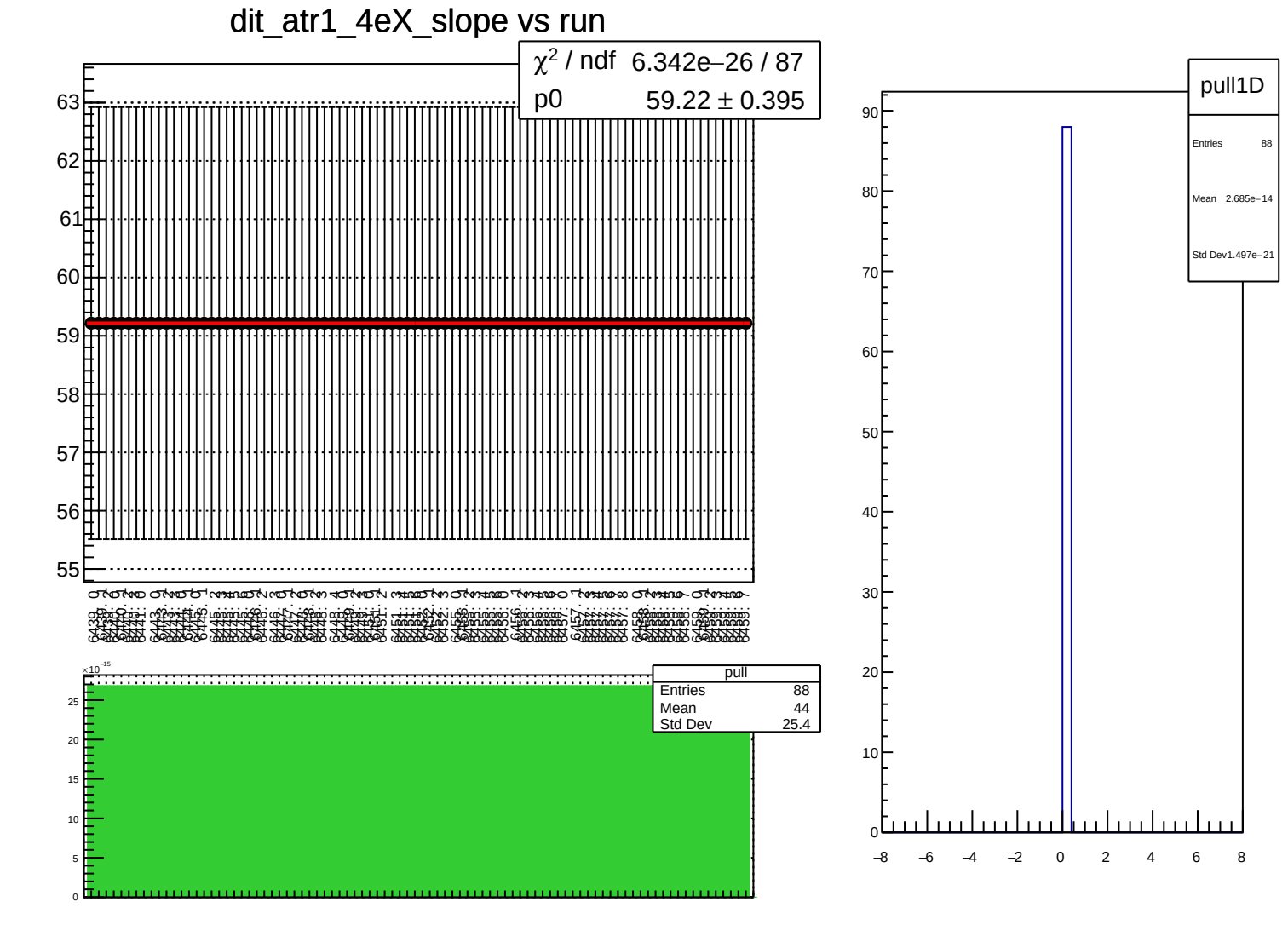
6
8

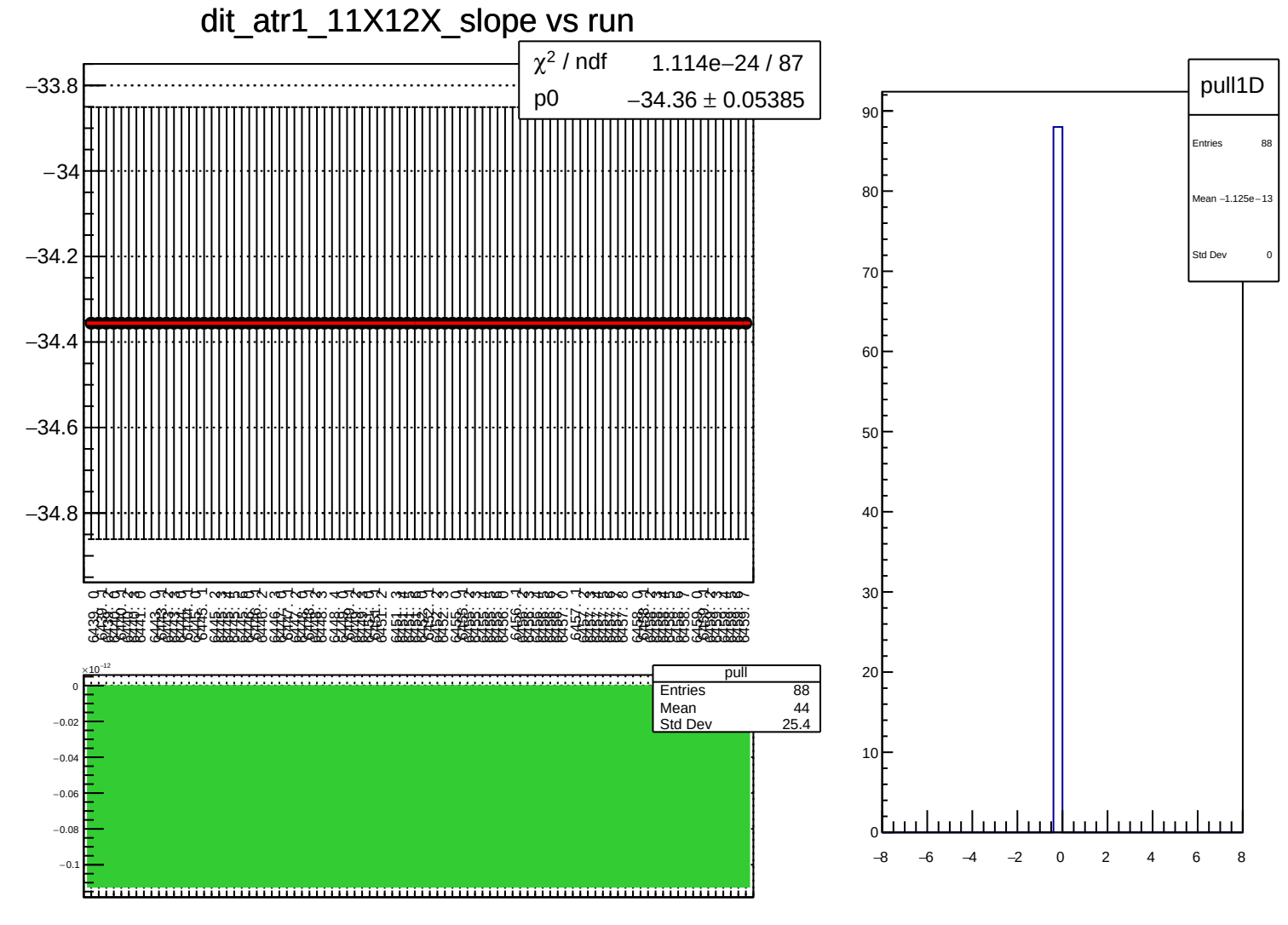

dit_atl2_11X12X_slope vs run
χ² / ndf 9.075e−25 / 87
p0 −316.8 ± 0.1193
−315.5
−316
−316.5
−317
−317.5
−318
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull1D
Entries 88
Mean −1.016e−13
Std Dev3.594e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

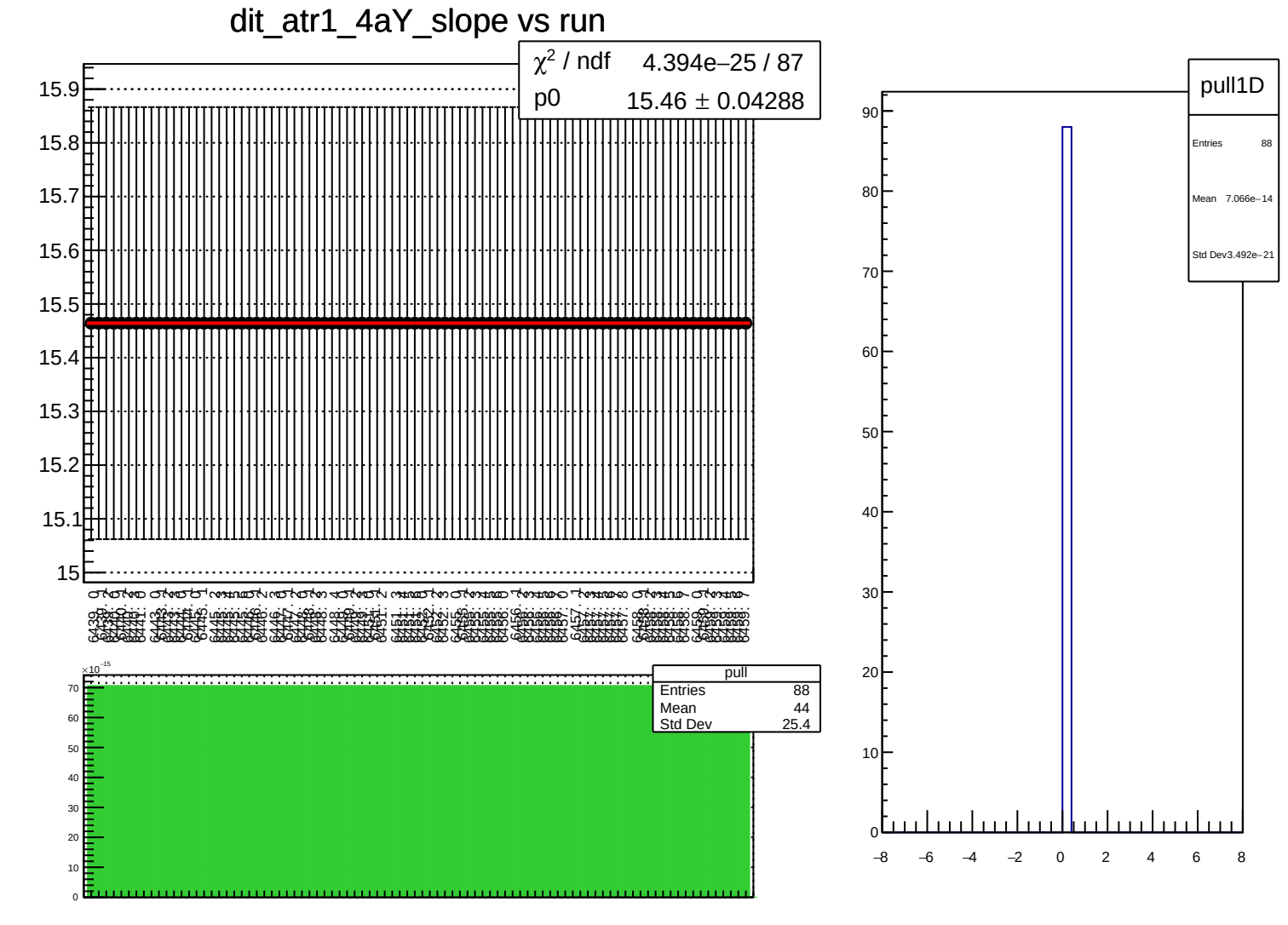

dit_atl2_4aY_slope vs run
χ² / ndf 0 / 87
p0 −9.04 ± 0.1271
pull
Entries 88
Mean 0
Std Dev 0
pull1D
Entries 88
Mean 0
Std Dev 0

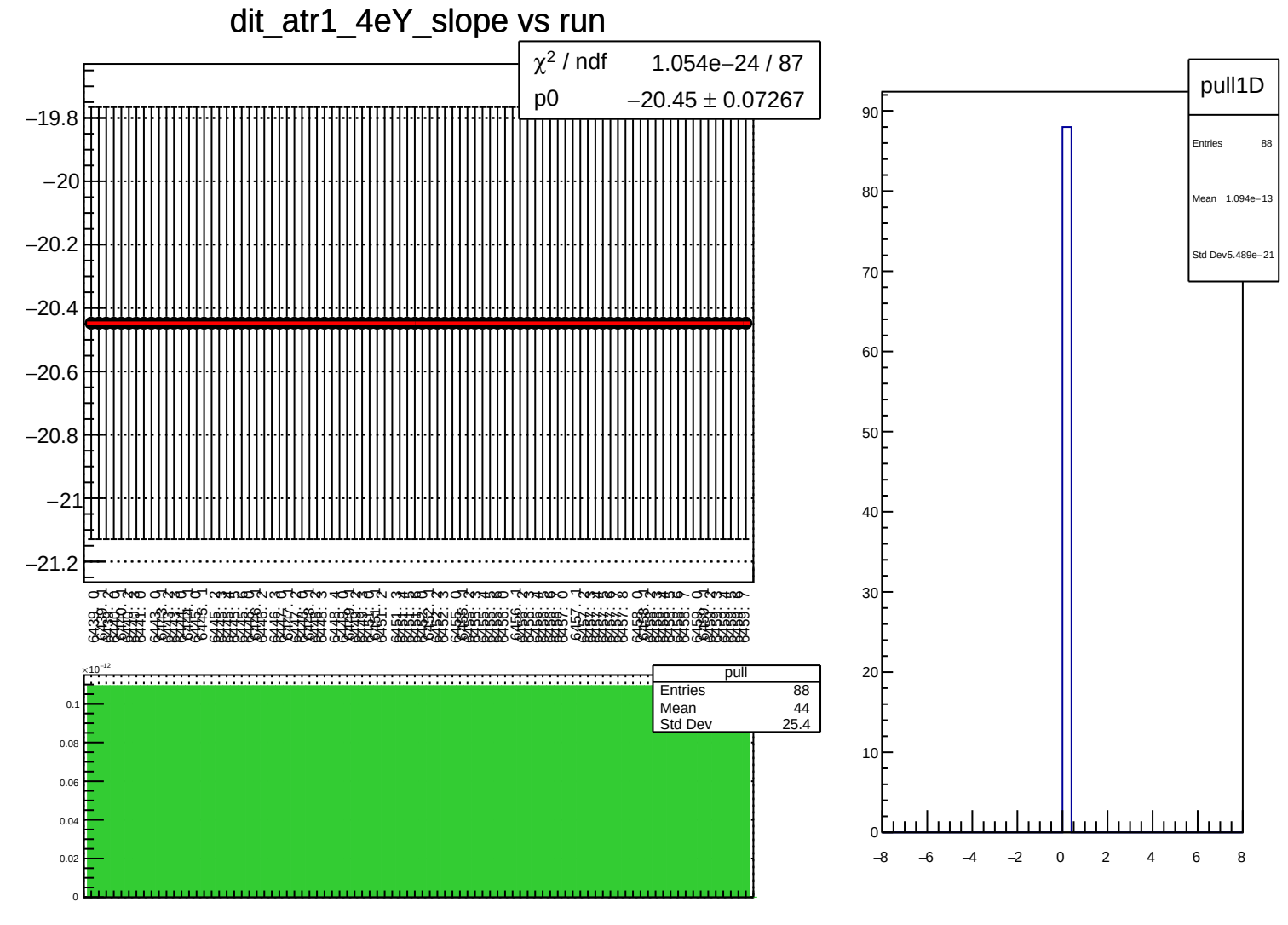

dit_atl2_4eY_slope vs run
χ^2 / ndf 3.849e−24 / 87
p0 162.1 ± 0.1738
164
163.5
163
162.5
162
161.5
161
160.5
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 88
Mean −2.091e−13
Std Dev5.357e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

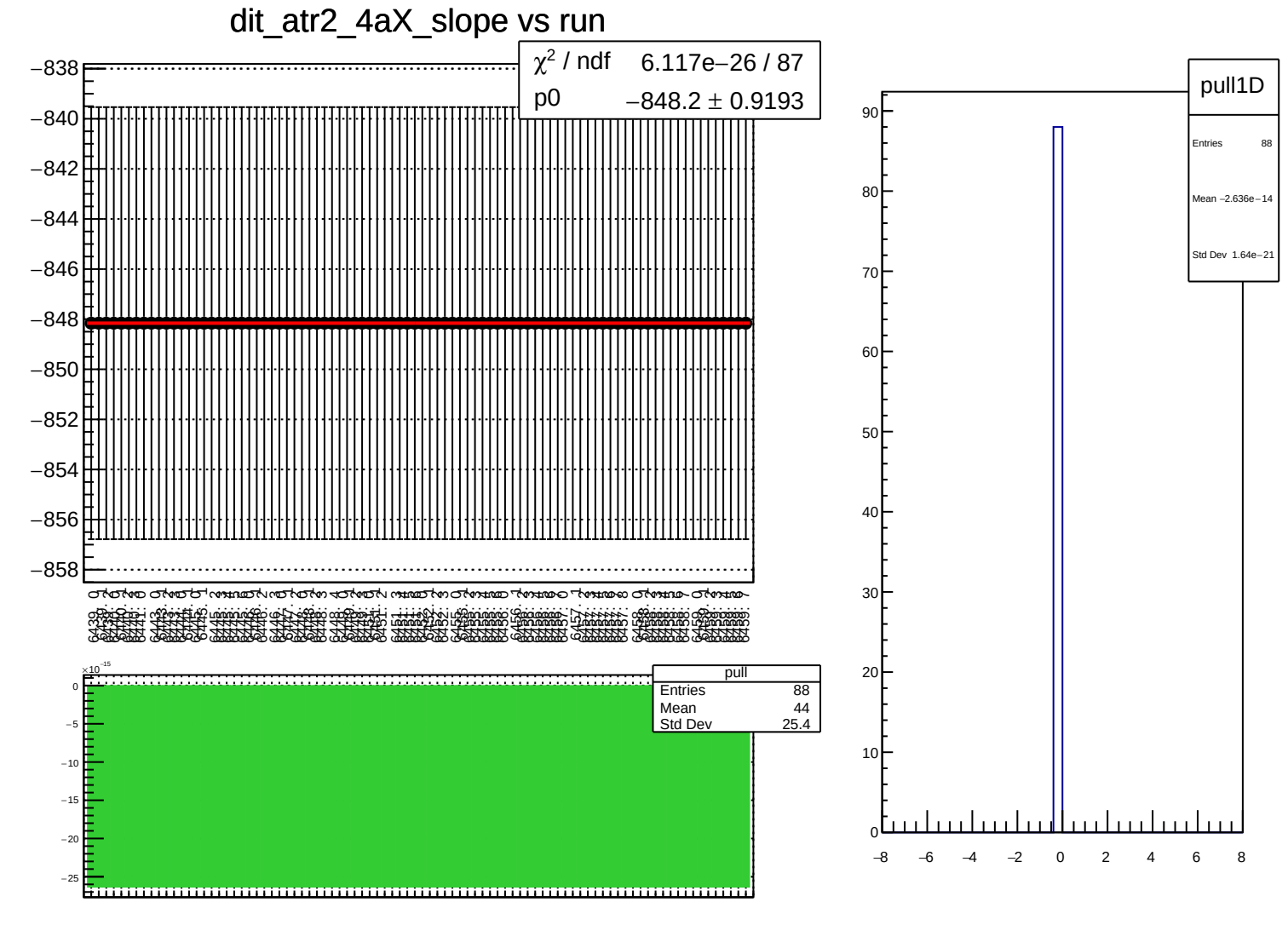

dit_atr1_4aX_slope vs run
χ² / ndf 5.46e−25 / 87
p0 −105.6 ± 0.4039
−102
−103
−104
−105
−106
−107
−108
−109
−110
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
80
70
60
50
40
30
20
10
0
pull1D
Entries 88
Mean 7.877e−14
Std Dev 8.47e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

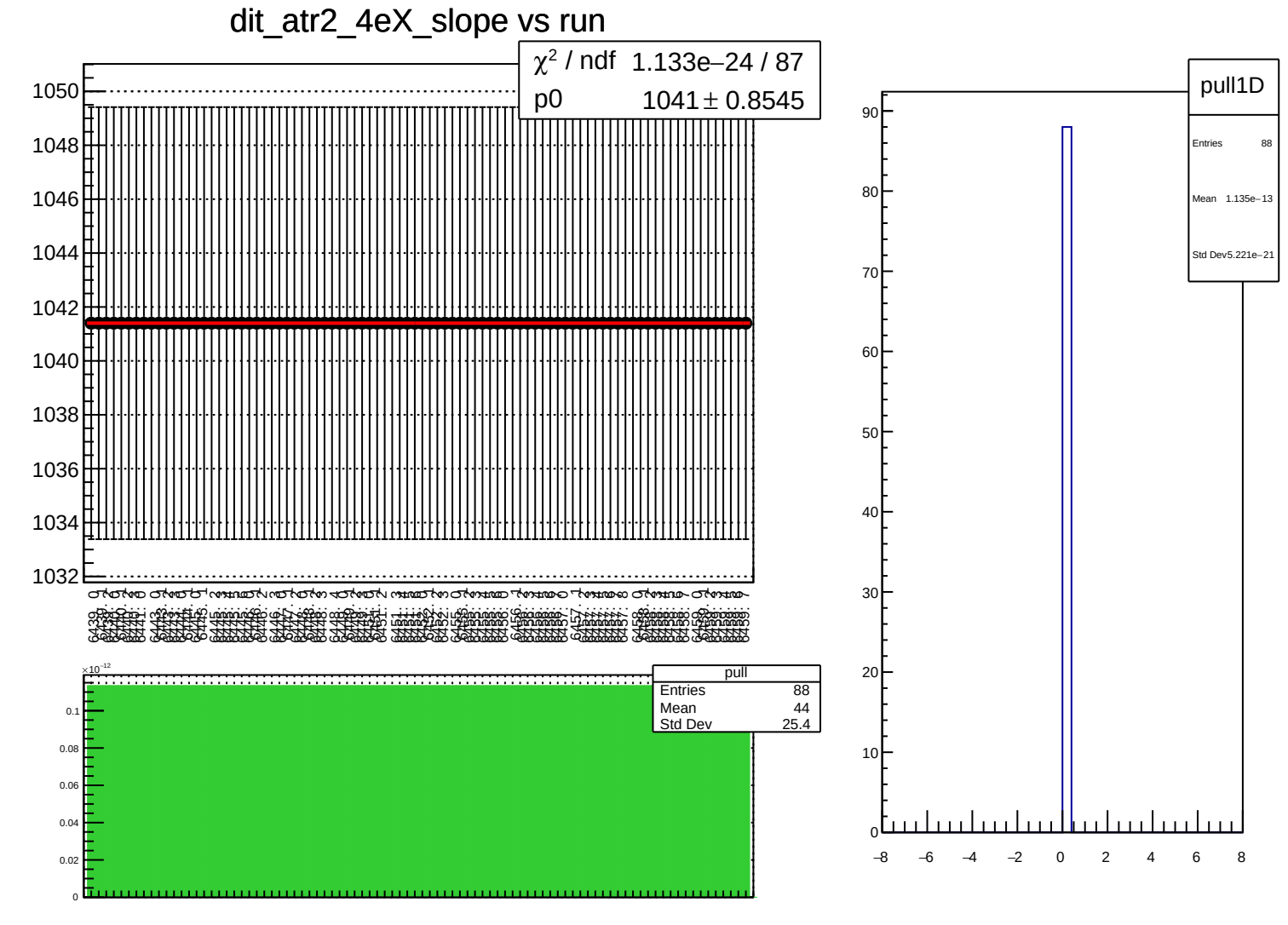

dit_atr1_4eX_slope vs run
χ² / ndf 6.342e−26 / 87
p0 59.22 ± 0.395
pull
Entries 88
Mean 44
Std Dev 25.4
pull1D
Entries 88
Mean 2.685e−14
Std Dev1.497e−21

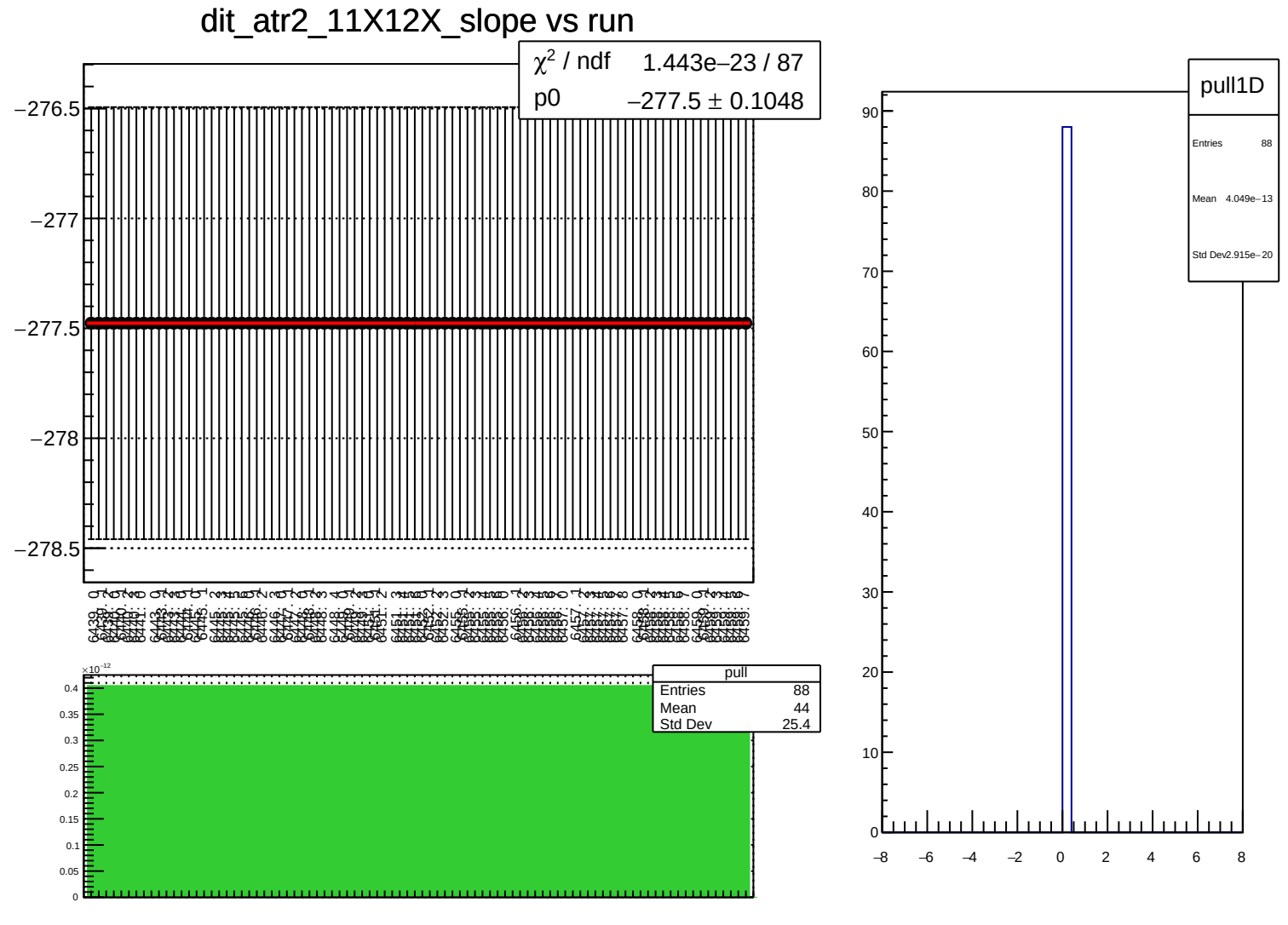

dit_atr1_11X12X_slope vs run
χ² / ndf 1.114e−24 / 87
p0 −34.36 ± 0.05385
−33.8
−34
−34.2
−34.4
−34.6
−34.8
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull1D
Entries 88
Mean −1.125e−13
Std Dev 0
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

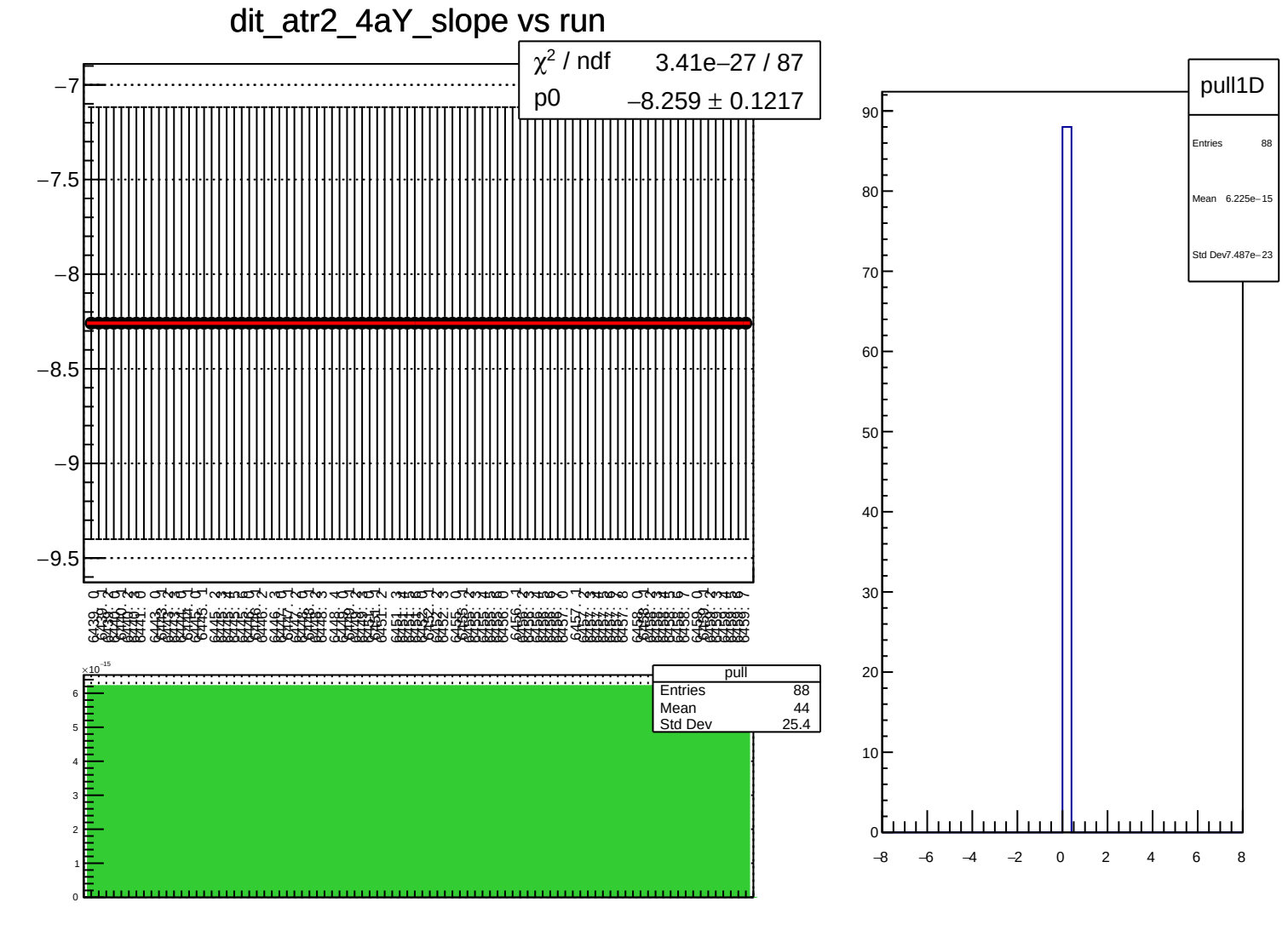

dit_atr1_4aY_slope vs run
χ² / ndf 4.394e−25 / 87
p0 15.46 ± 0.04288
pull
Entries 88
Mean 44
Std Dev 25.4
pull1D
Entries 88
Mean 7.066e−14
Std Dev3.492e−21

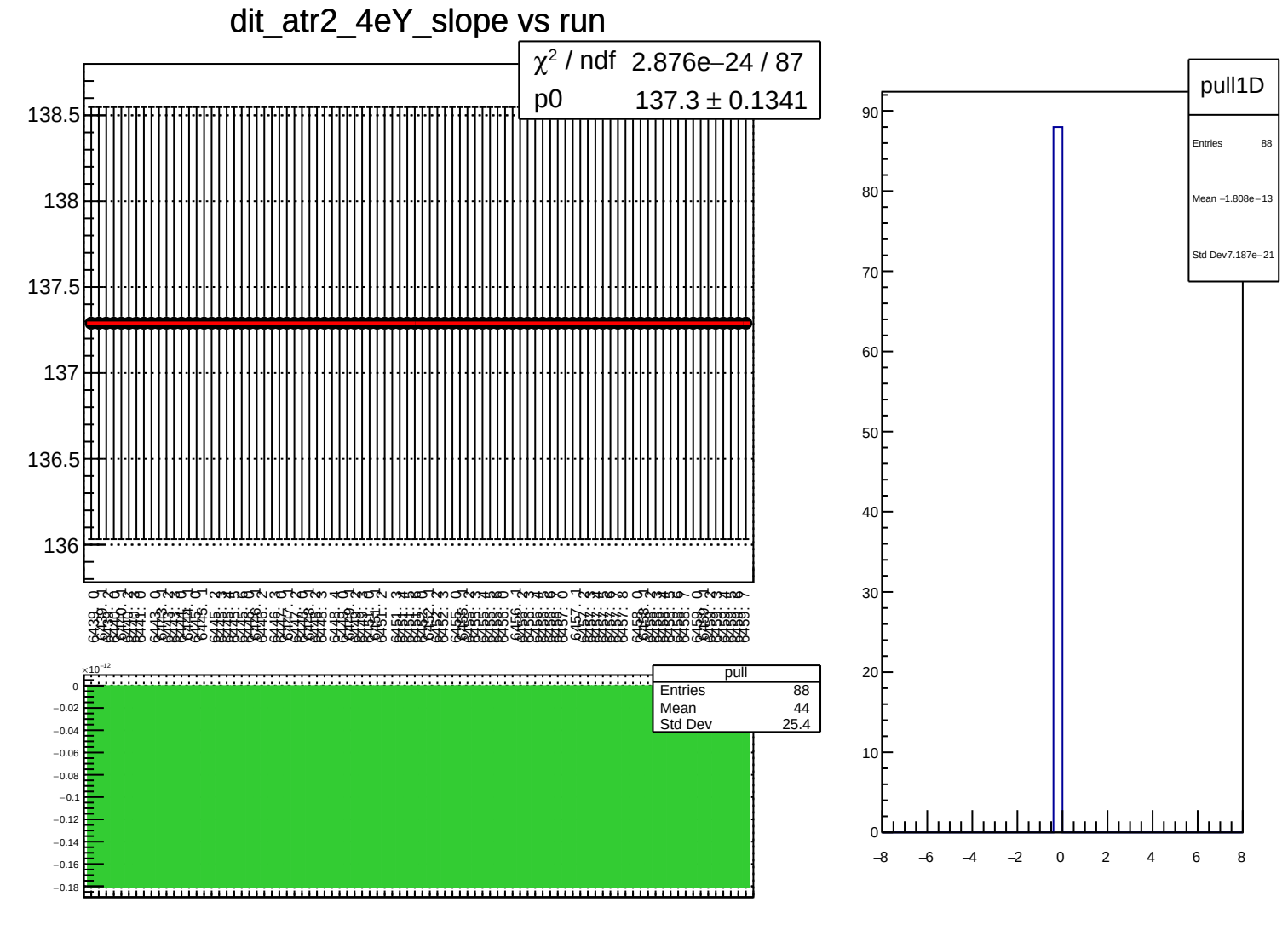

dit_atr1_4eY_slope vs run
χ² / ndf 1.054e−24 / 87
p0 −20.45 ± 0.07267
−19.8
−20
−20.2
−20.4
−20.6
−20.8
−21
−21.2
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0.1
0.08
0.06
0.04
0.02
0
pull1D
Entries 88
Mean 1.094e−13
Std Dev5.489e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

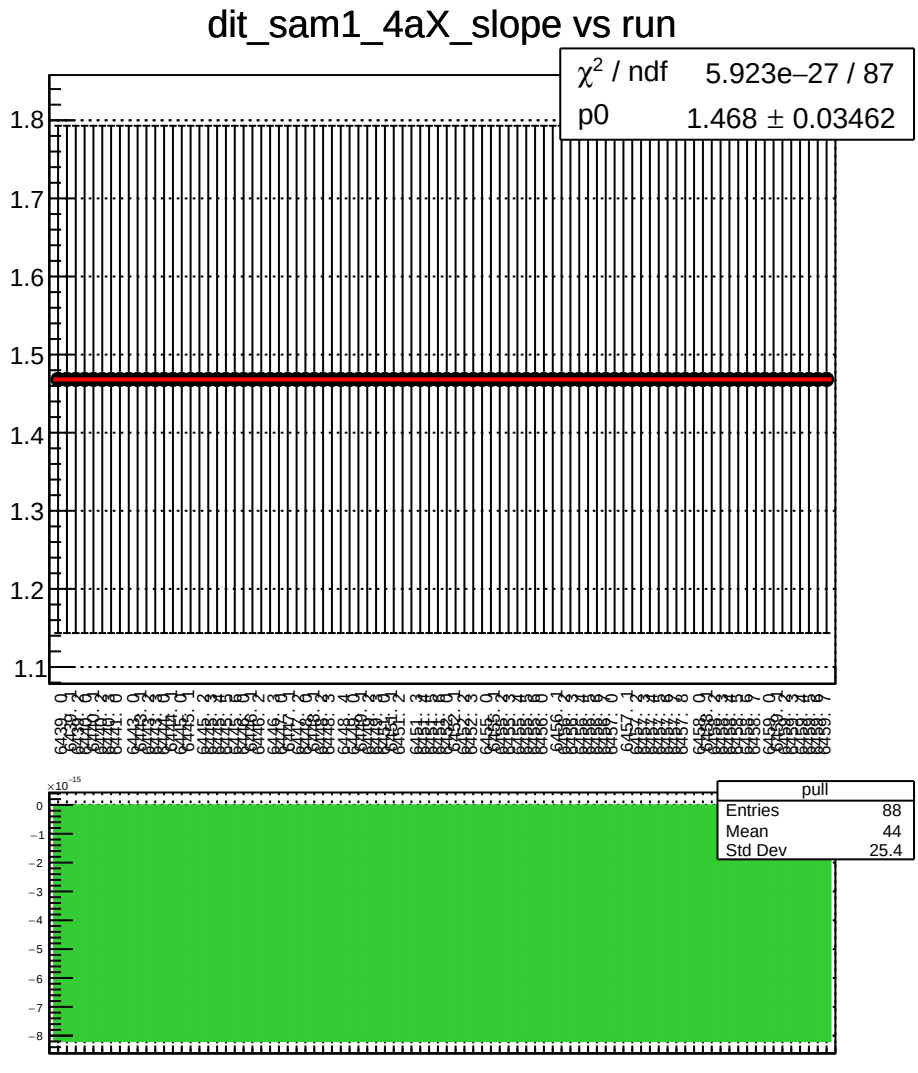

dit_atr2_4aX_slope vs run
χ^2 / ndf 6.117e−26 / 87
p0 −848.2 ± 0.9193
−838
−840
−842
−844
−846
−848
−850
−852
−854
−856
−858
pull
Entries 88
Mean 44
Std Dev 25.4
×10^-15
0
−5
−10
−15
−20
−25
pull1D
Entries 88
Mean −2.636e−14
Std Dev 1.64e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

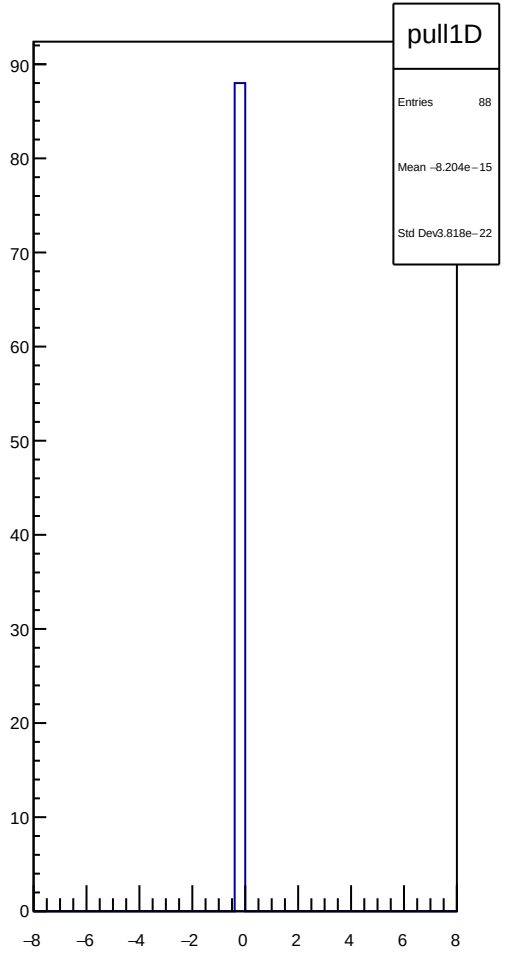

dit_atr2_4eX_slope vs run
χ² / ndf 1.133e−24 / 87
p0 1041 ± 0.8545
1050
1048
1046
1044
1042
1040
1038
1036
1034
1032
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0.1
0.08
0.06
0.04
0.02
0
pull1D
Entries 88
Mean 1.135e−13
Std Dev5.221e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

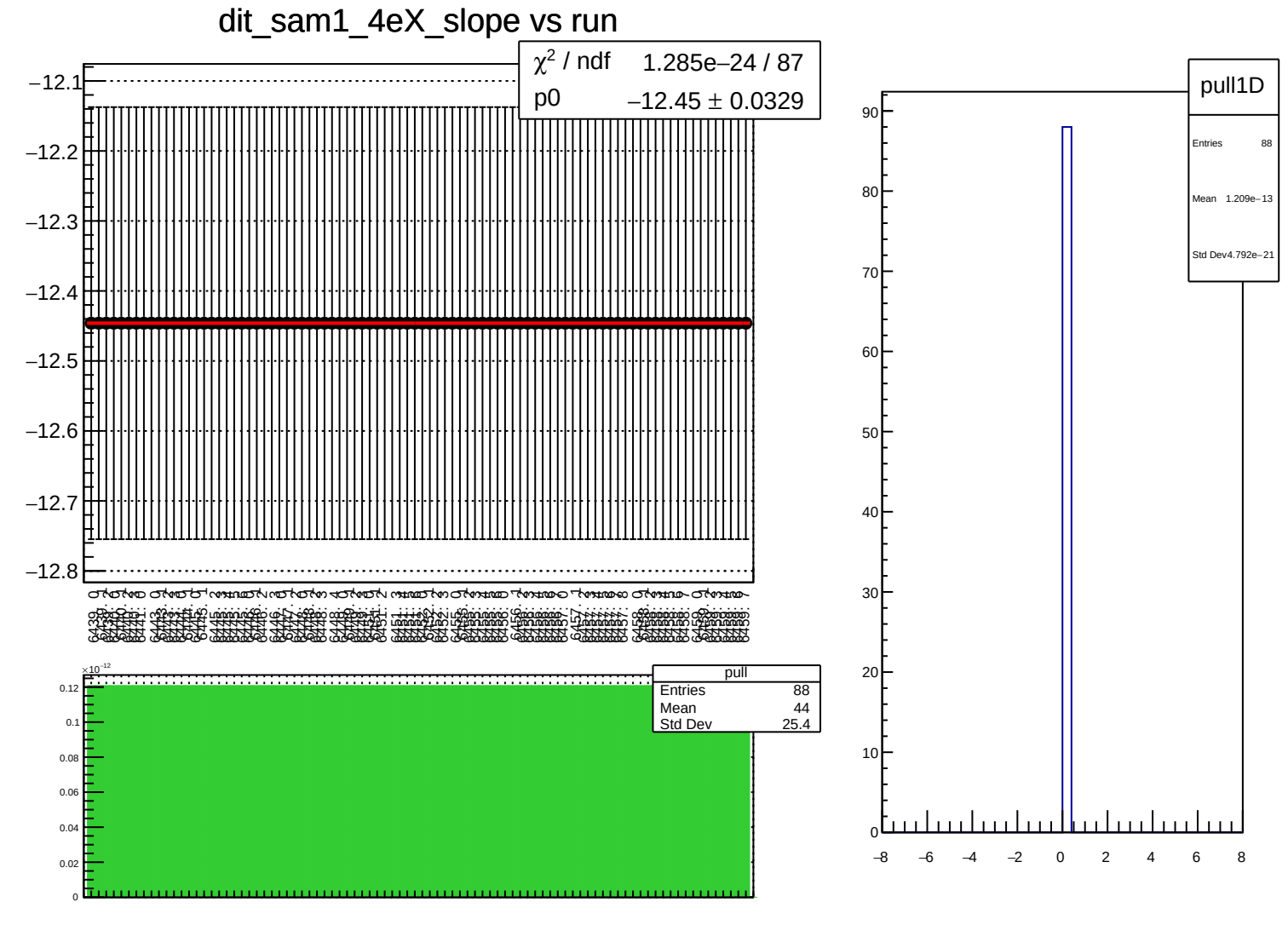

dit_atr2_11X12X_slope vs run
χ² / ndf 1.443e−23 / 87
p0 −277.5 ± 0.1048
−276.5
−277
−277.5
−278
−278.5
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
pull1D
Entries 88
Mean 4.049e−13
Std Dev 2.915e−20

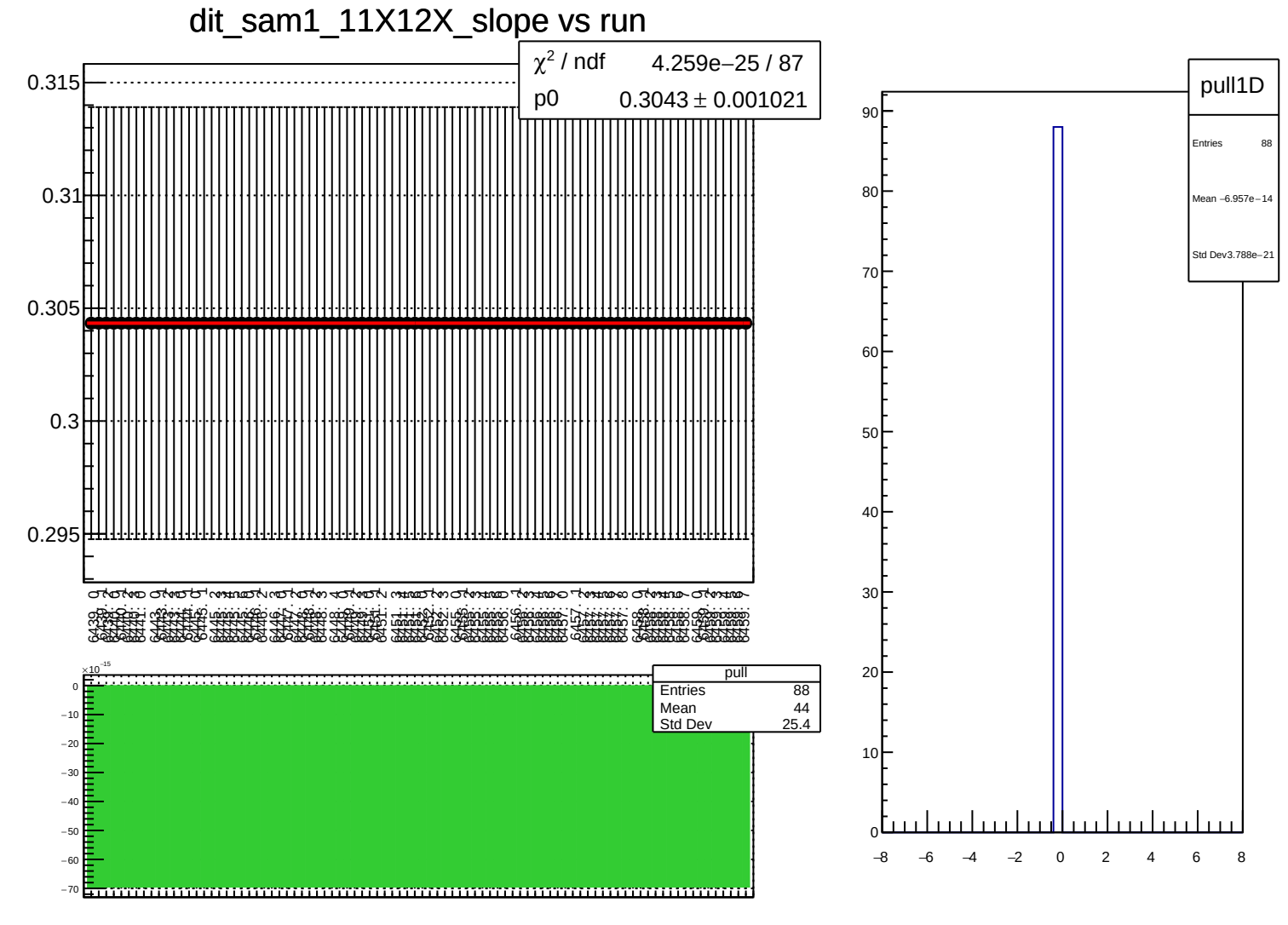

dit_atr2_4aY_slope vs run
χ² / ndf 3.41e−27 / 87
p0 −8.259 ± 0.1217
−7
−7.5
−8
−8.5
−9
−9.5
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
pull1D
Entries 88
Mean 6.225e−15
Std Dev7.487e−23
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_atr2_4eY_slope vs run
χ² / ndf 2.876e−24 / 87
p0 137.3 ± 0.1341
138.5
138
137.5
137
136.5
136
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull1D
Entries 88
Mean −1.808e−13
Std Dev7.187e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam1_4aX_slope vs run
χ^2 / ndf 5.923e−27 / 87
p0 1.468 ± 0.03462
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
pull
Entries 88
Mean 44
Std Dev 25.4
×10^-15
0
−1
−2
−3
−4
−5
−6
−7
−8


pull1D
Entries 88
Mean −8.204e−15
Std Dev3.818e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam1_4eX_slope vs run
χ² / ndf 1.285e−24 / 87
p0 −12.45 ± 0.0329
−12.1
−12.2
−12.3
−12.4
−12.5
−12.6
−12.7
−12.8
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0.12
0.1
0.08
0.06
0.04
0.02
0
pull1D
Entries 88
Mean 1.209e−13
Std Dev4.792e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam1_11X12X_slope vs run
χ^2 / ndf 4.259e−25 / 87
p0 0.3043 ± 0.001021
0.315
0.31
0.305
0.3
0.295
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 88
Mean −6.957e−14
Std Dev3.788e−21
90
80
70
60
50
40
30
20
10
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−6
−4
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2
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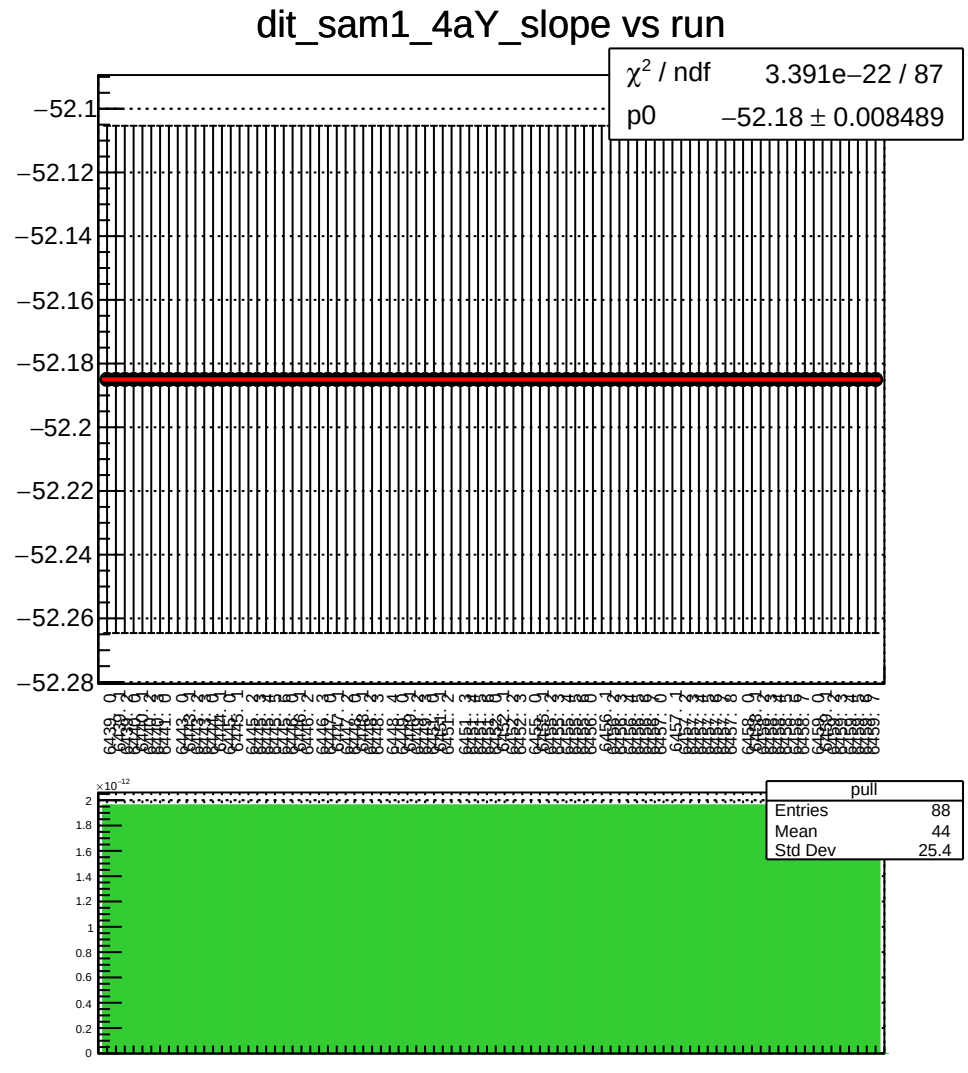
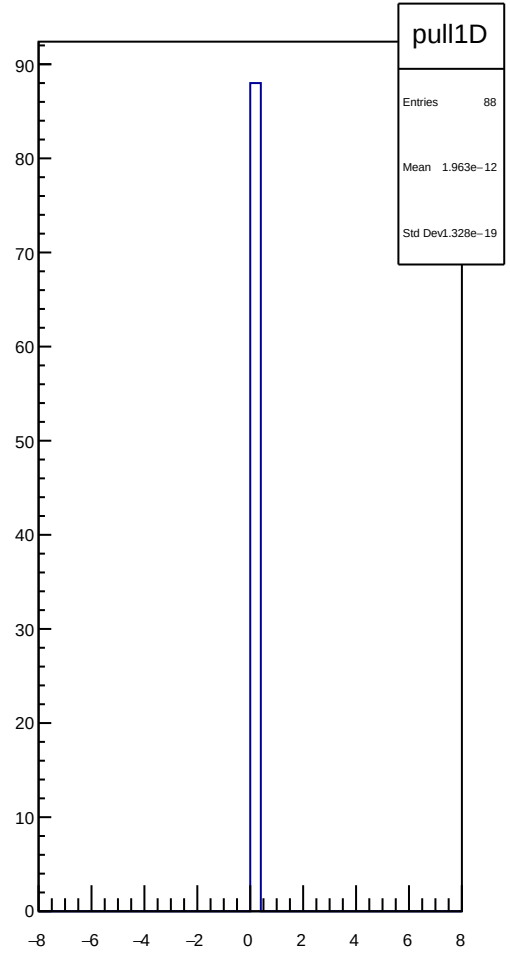
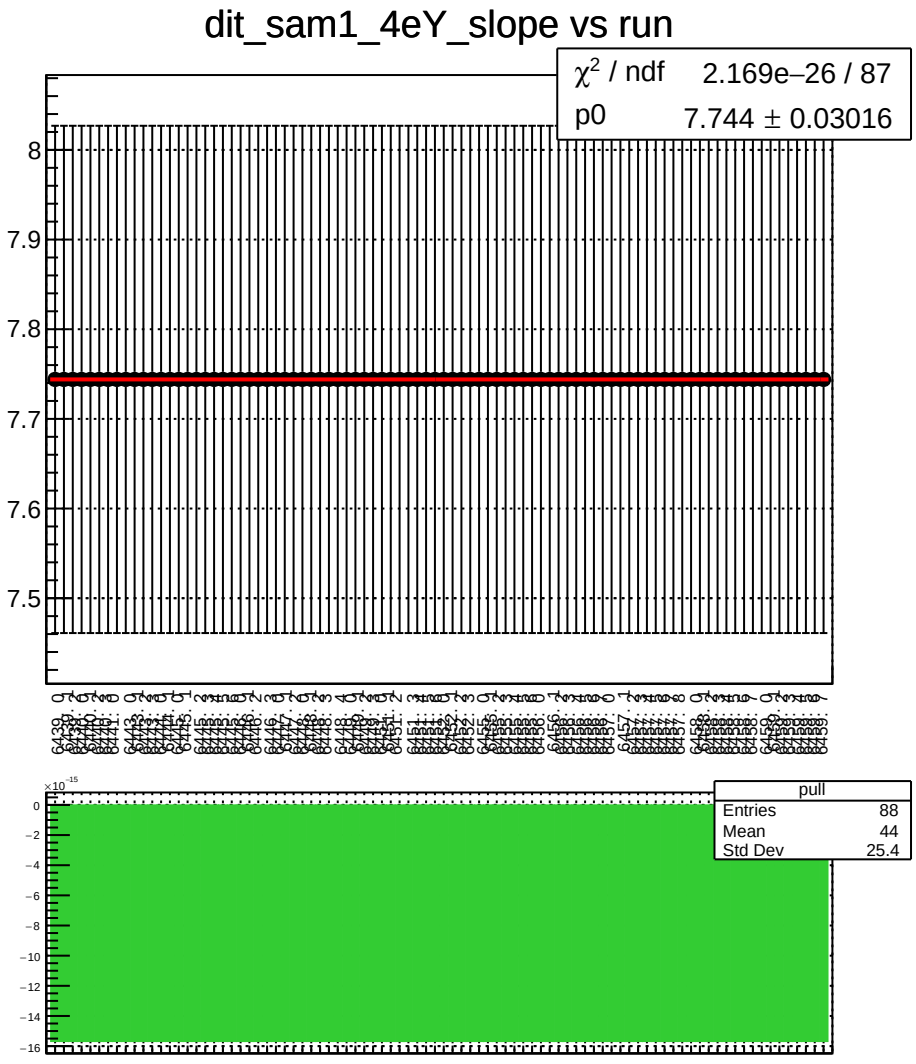
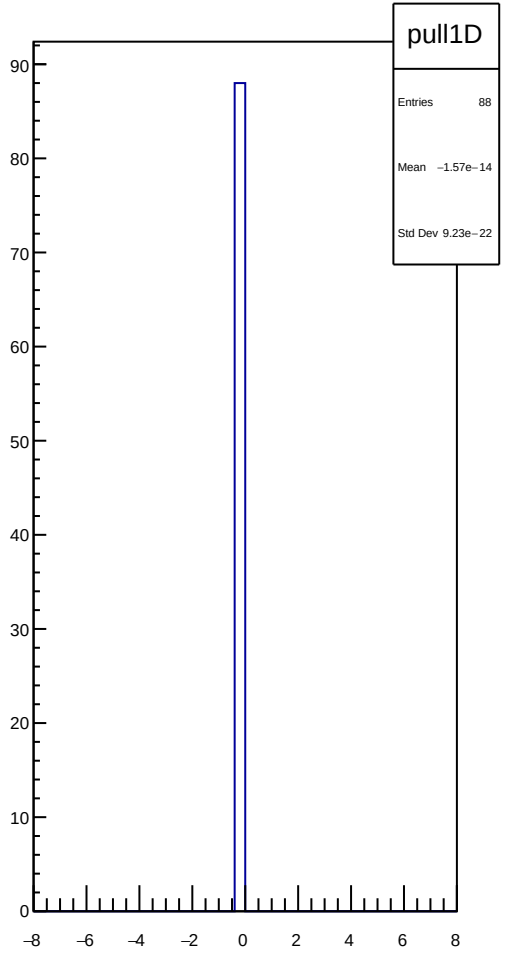
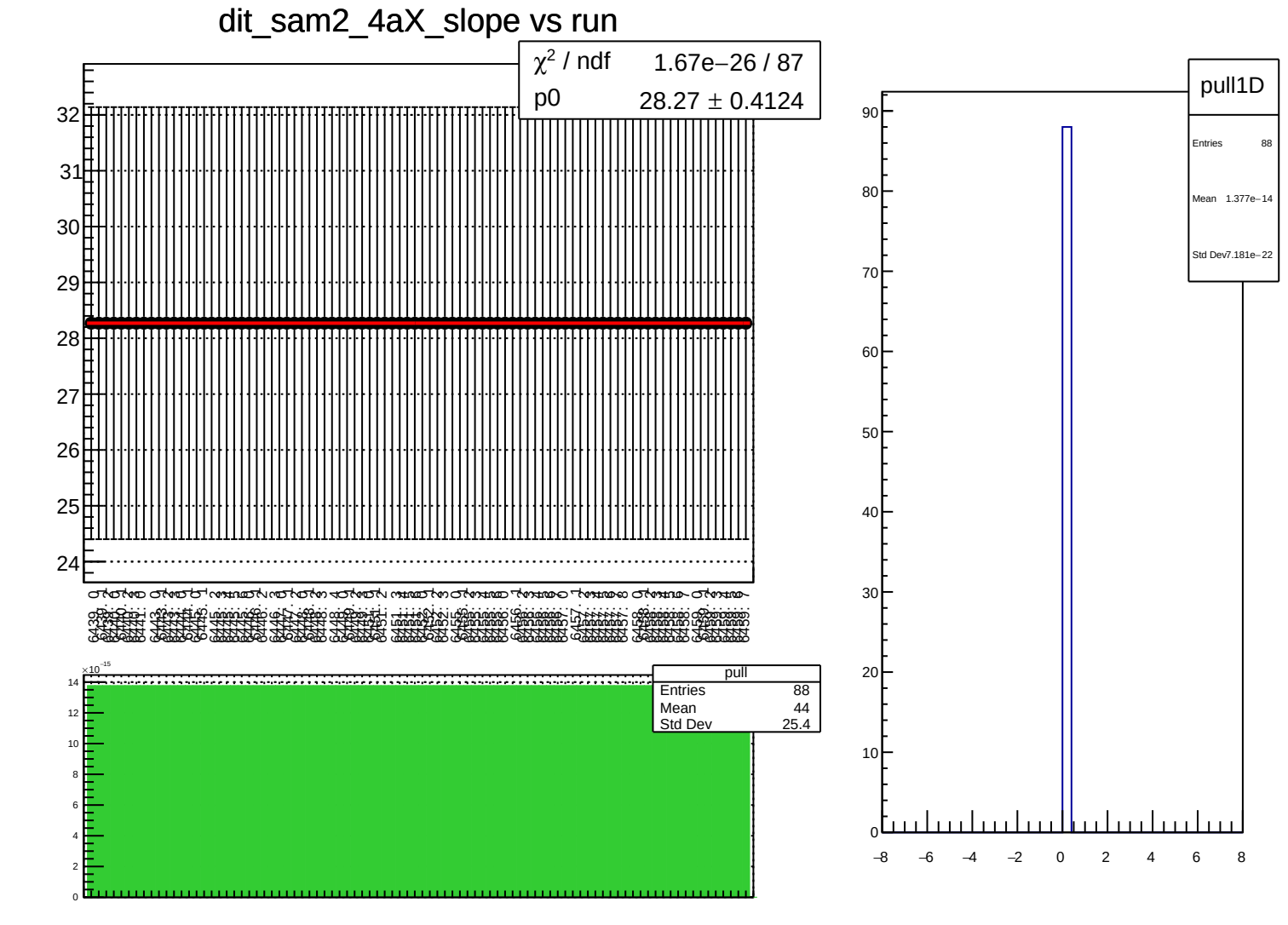
6
8

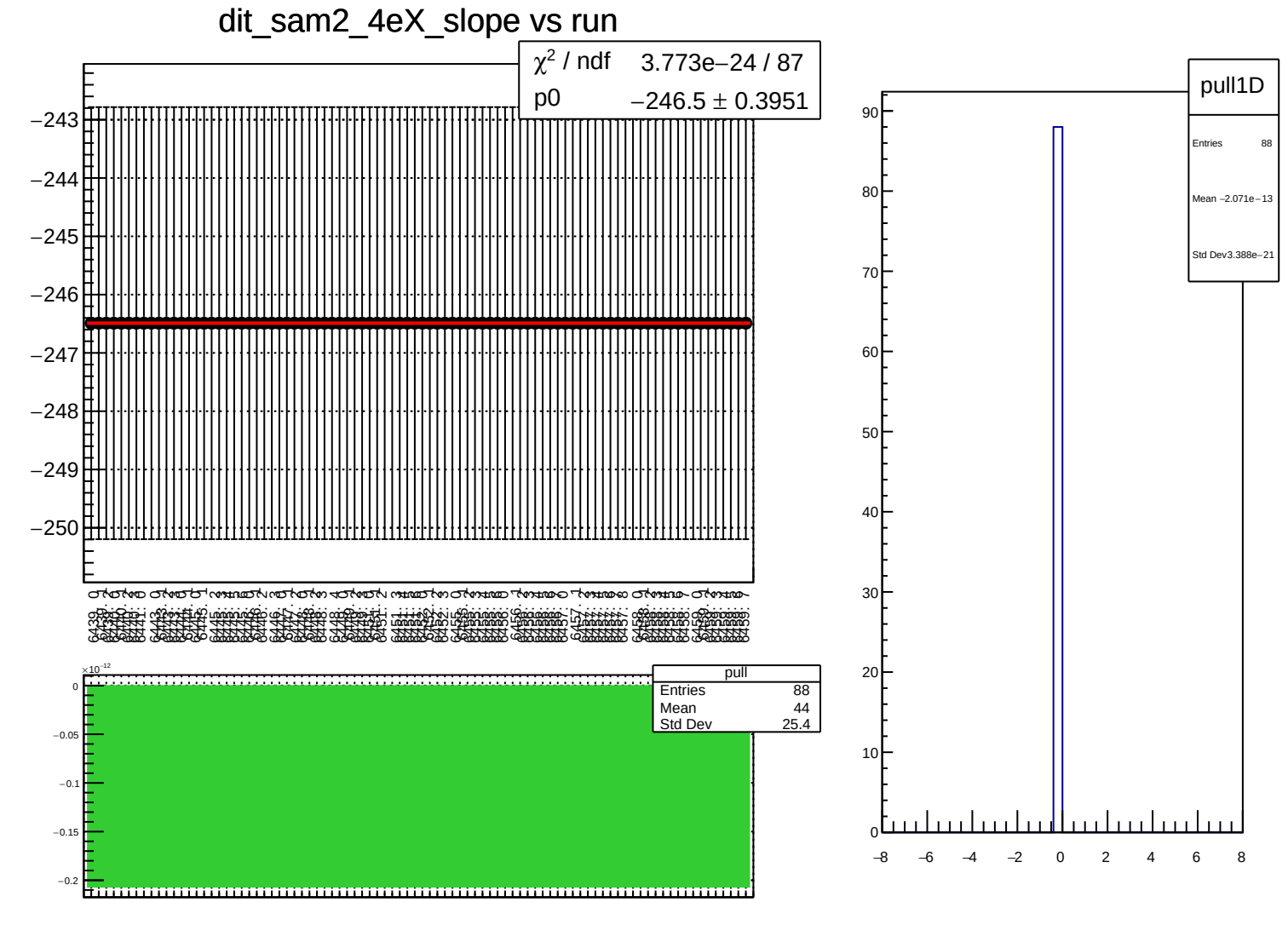

dit_sam1_4aY_slope vs run
χ² / ndf 3.391e−22 / 87
p0 −52.18 ± 0.008489
−52.1
−52.12
−52.14
−52.16
−52.18
−52.2
−52.22
−52.24
−52.26
−52.28
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

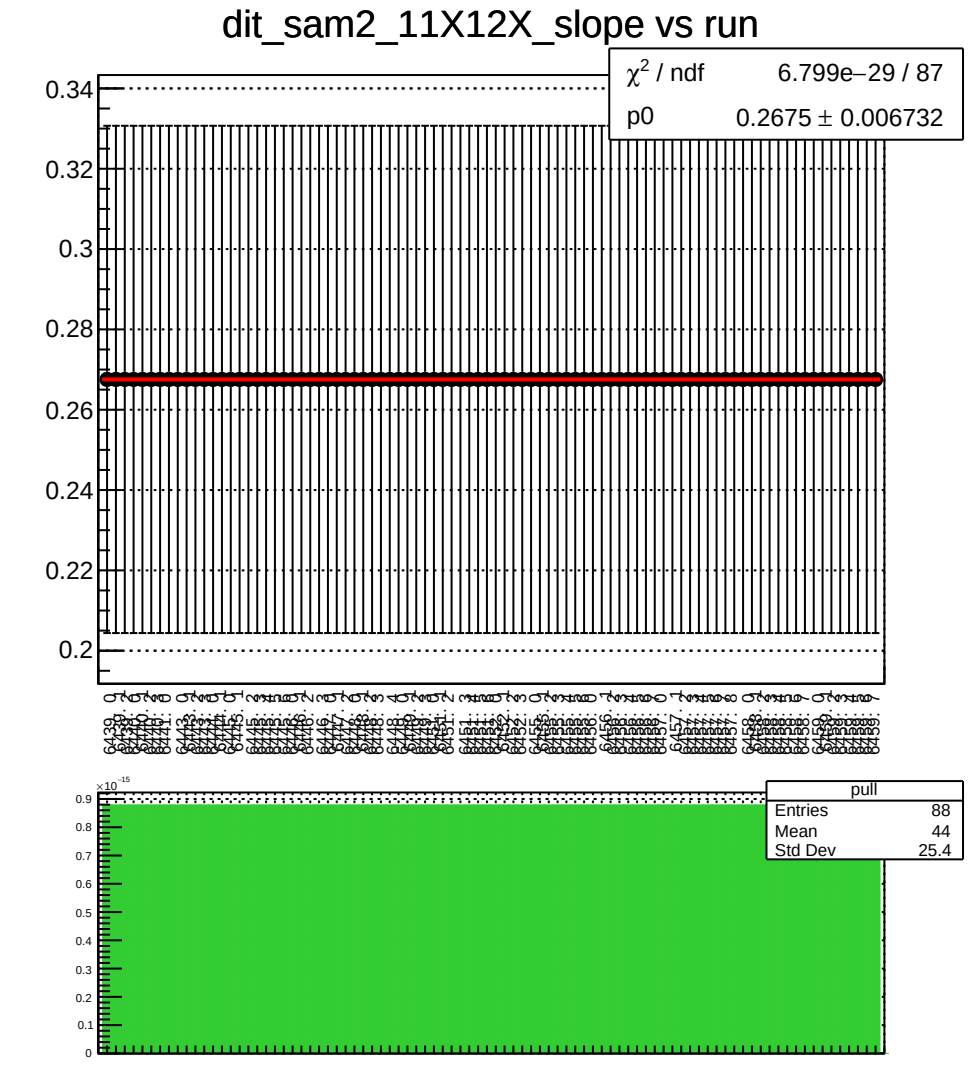

pull1D
Entries 88
Mean 1.963e−12
Std Dev1.328e−19
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

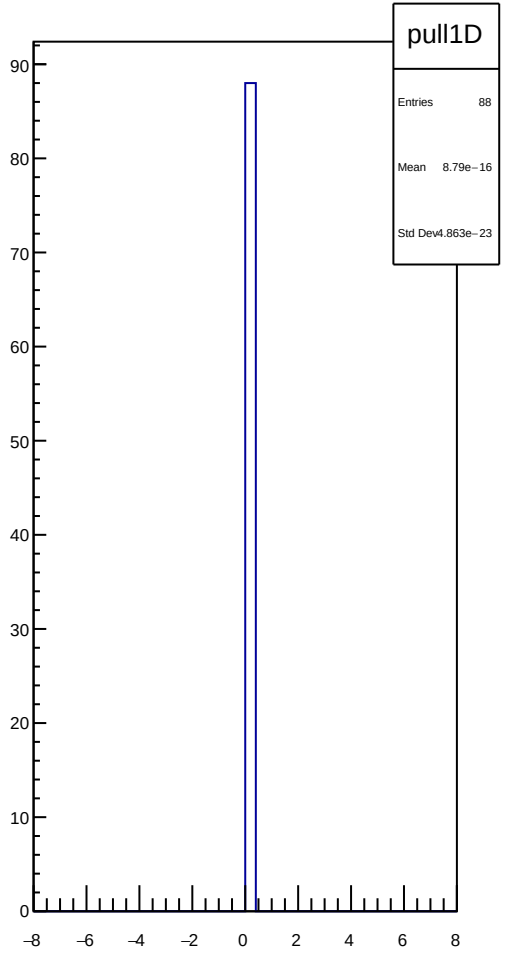

dit_sam1_4eY_slope vs run
χ² / ndf 2.169e−26 / 87
p0 7.744 ± 0.03016
8
7.9
7.8
7.7
7.6
7.5
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16

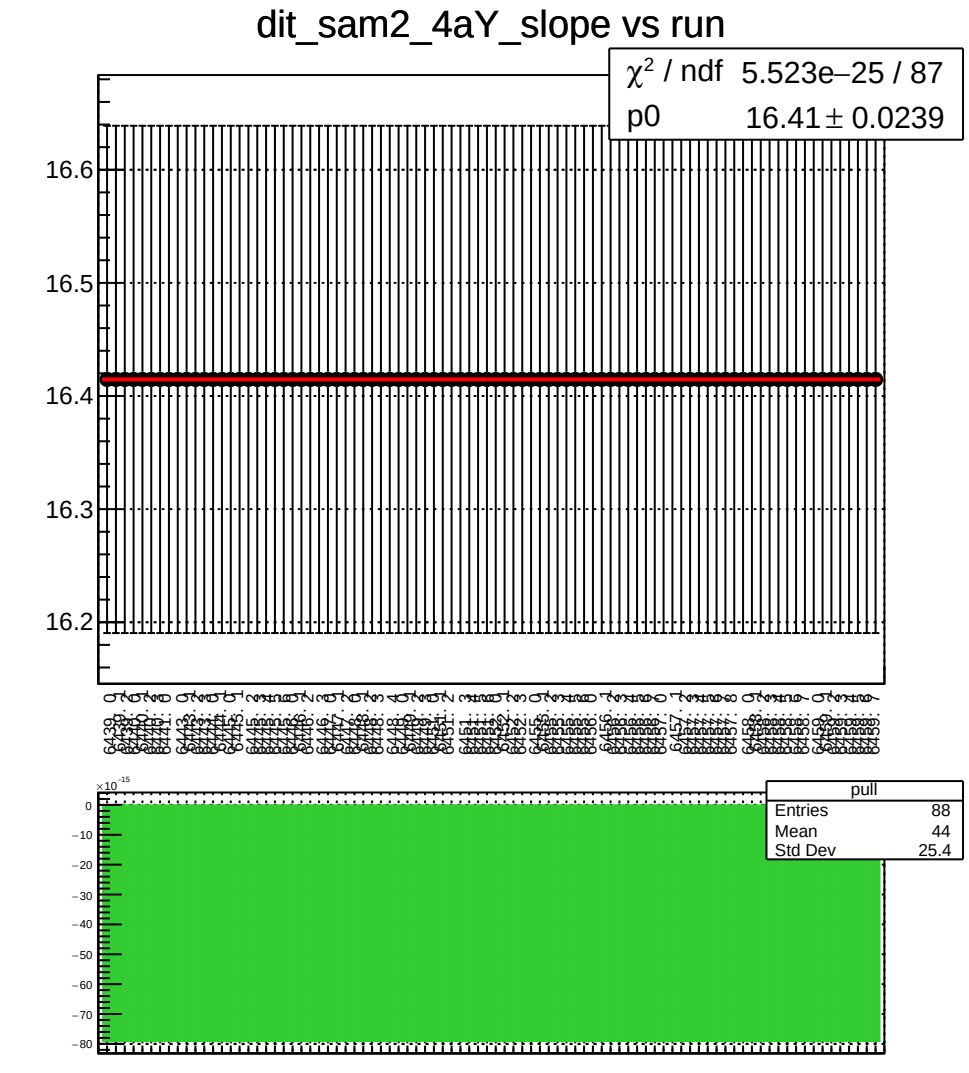

pull1D
Entries 88
Mean −1.57e−14
Std Dev 9.23e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

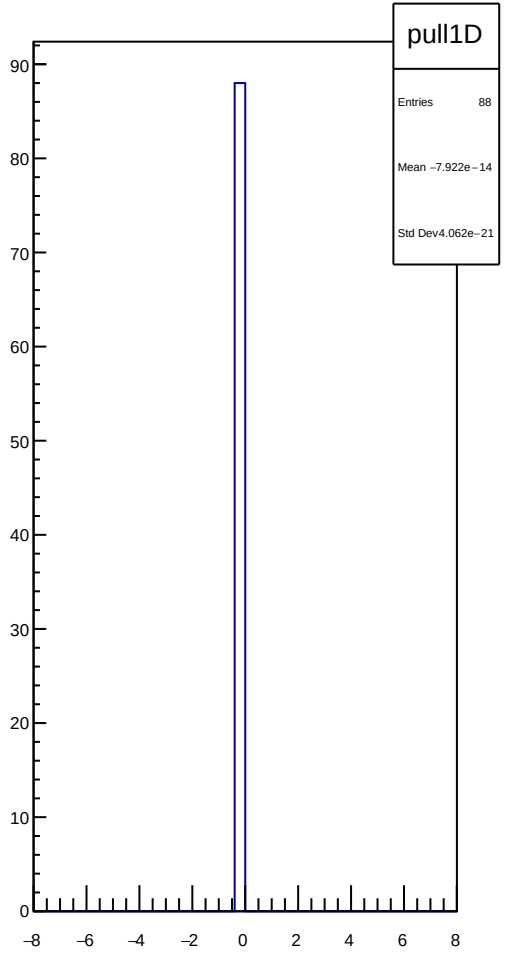

dit_sam2_4aX_slope vs run
χ² / ndf 1.67e−26 / 87
p0 28.27 ± 0.4124
pull
Entries 88
Mean 44
Std Dev 25.4
pull1D
Entries 88
Mean 1.377e−14
Std Dev7.181e−22

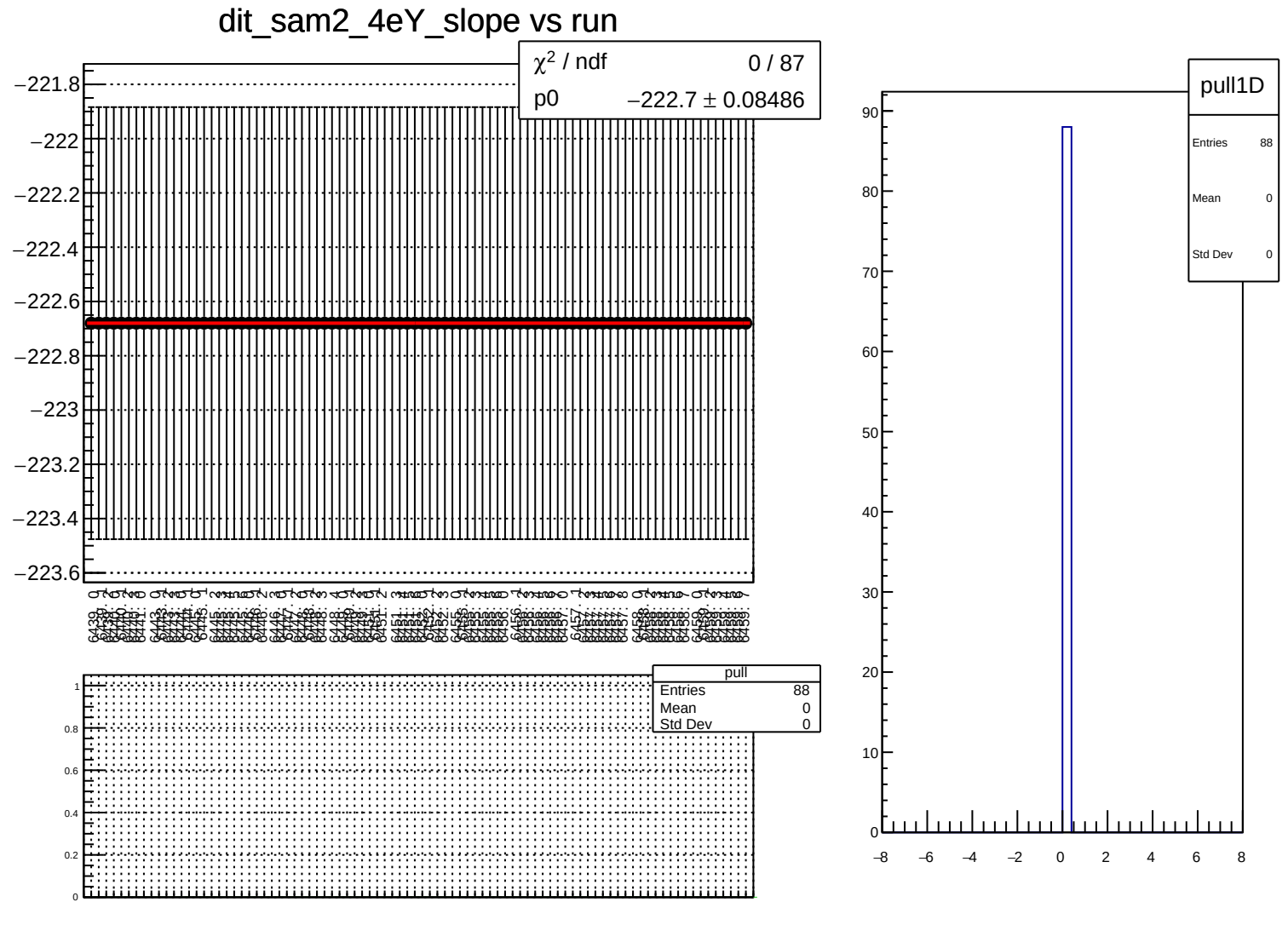

dit_sam2_4eX_slope vs run
χ^2 / ndf 3.773e−24 / 87
p0 −246.5 ± 0.3951
−243
−244
−245
−246
−247
−248
−249
−250
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 88
Mean −2.071e−13
Std Dev3.388e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

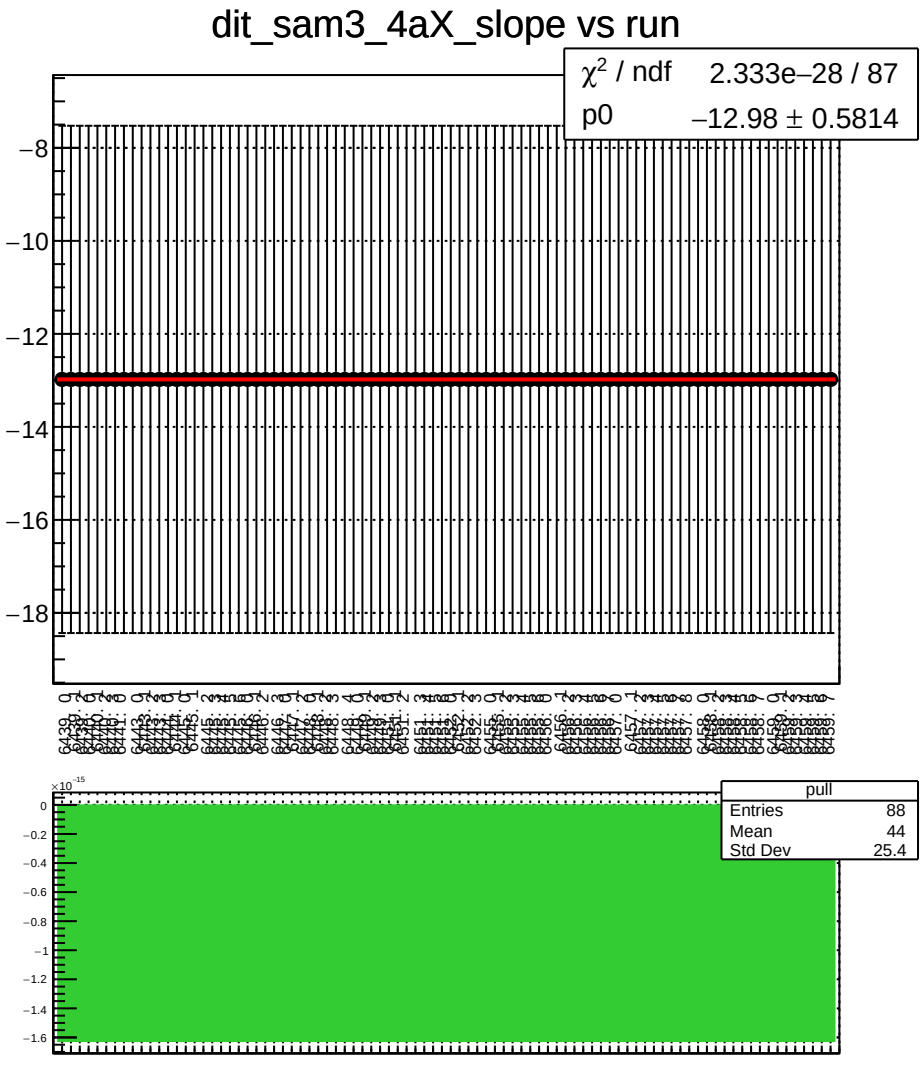

dit_sam2_11X12X_slope vs run
χ² / ndf 6.799e−29 / 87
p0 0.2675 ± 0.006732
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

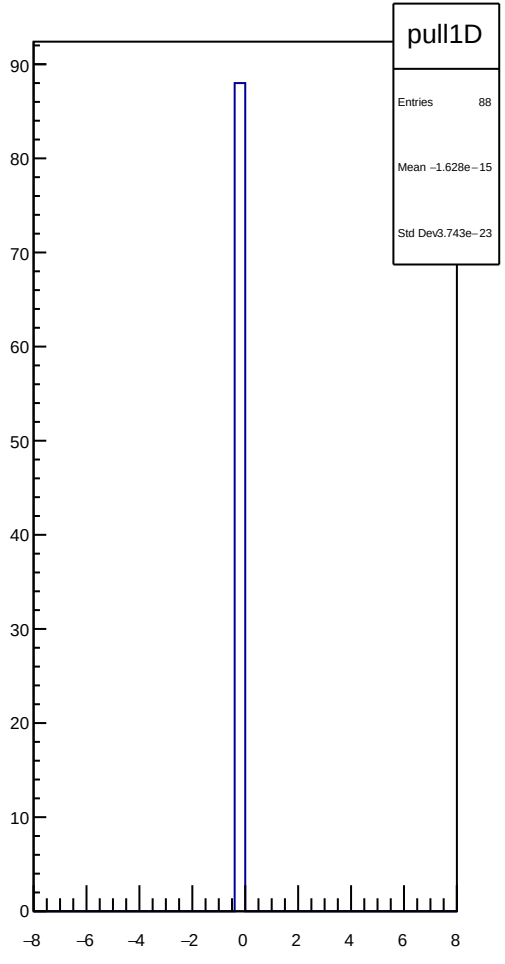

pull1D
Entries 88
Mean 8.79e−16
Std Dev 4.863e−23
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

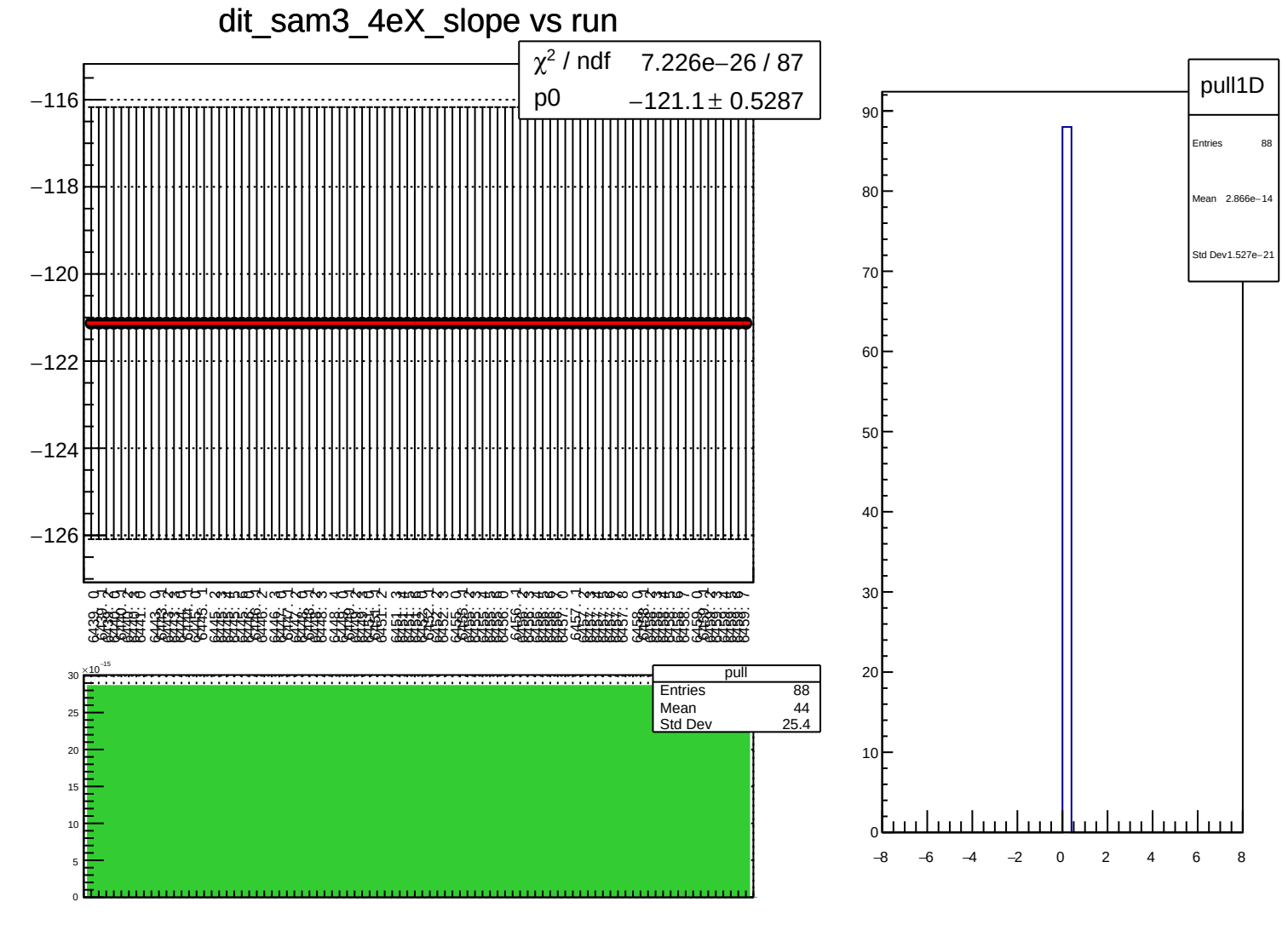

dit_sam2_4aY_slope vs run
χ² / ndf 5.523e−25 / 87
p0 16.41 ± 0.0239
16.6
16.5
16.4
16.3
16.2
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
−80

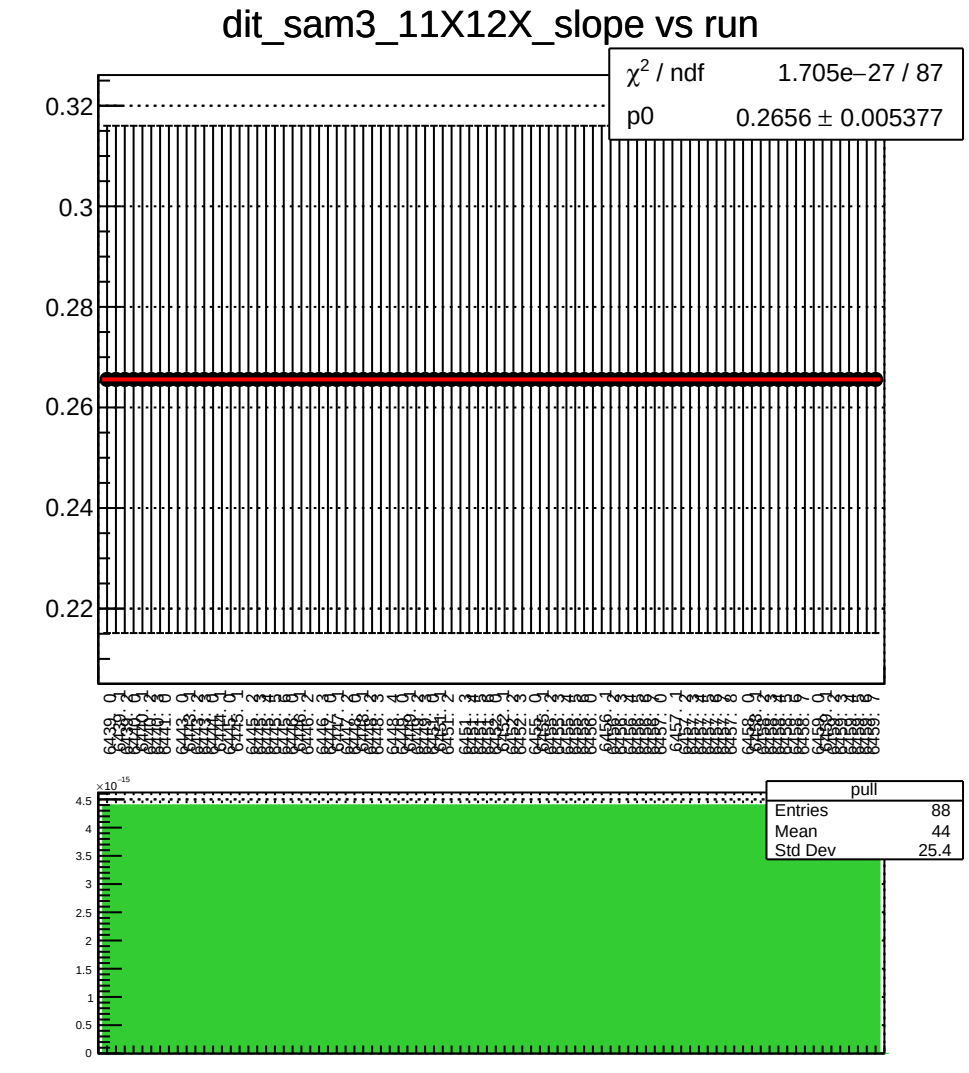

pull1D
Entries 88
Mean −7.922e−14
Std Dev4.062e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

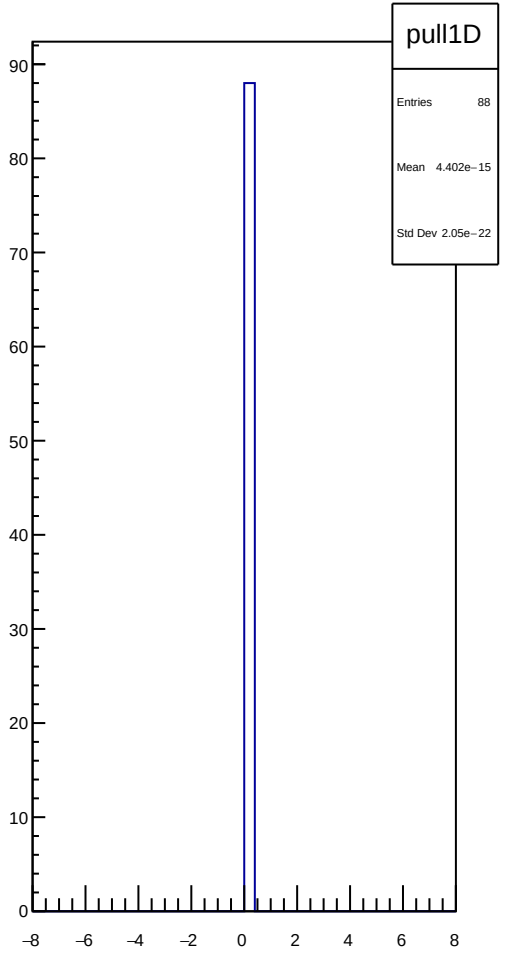

dit_sam2_4eY_slope vs run
χ² / ndf 0 / 87
p0 −222.7 ± 0.08486
−221.8
−222
−222.2
−222.4
−222.6
−222.8
−223
−223.2
−223.4
−223.6
pull
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 88
Mean 0
Std Dev 0
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

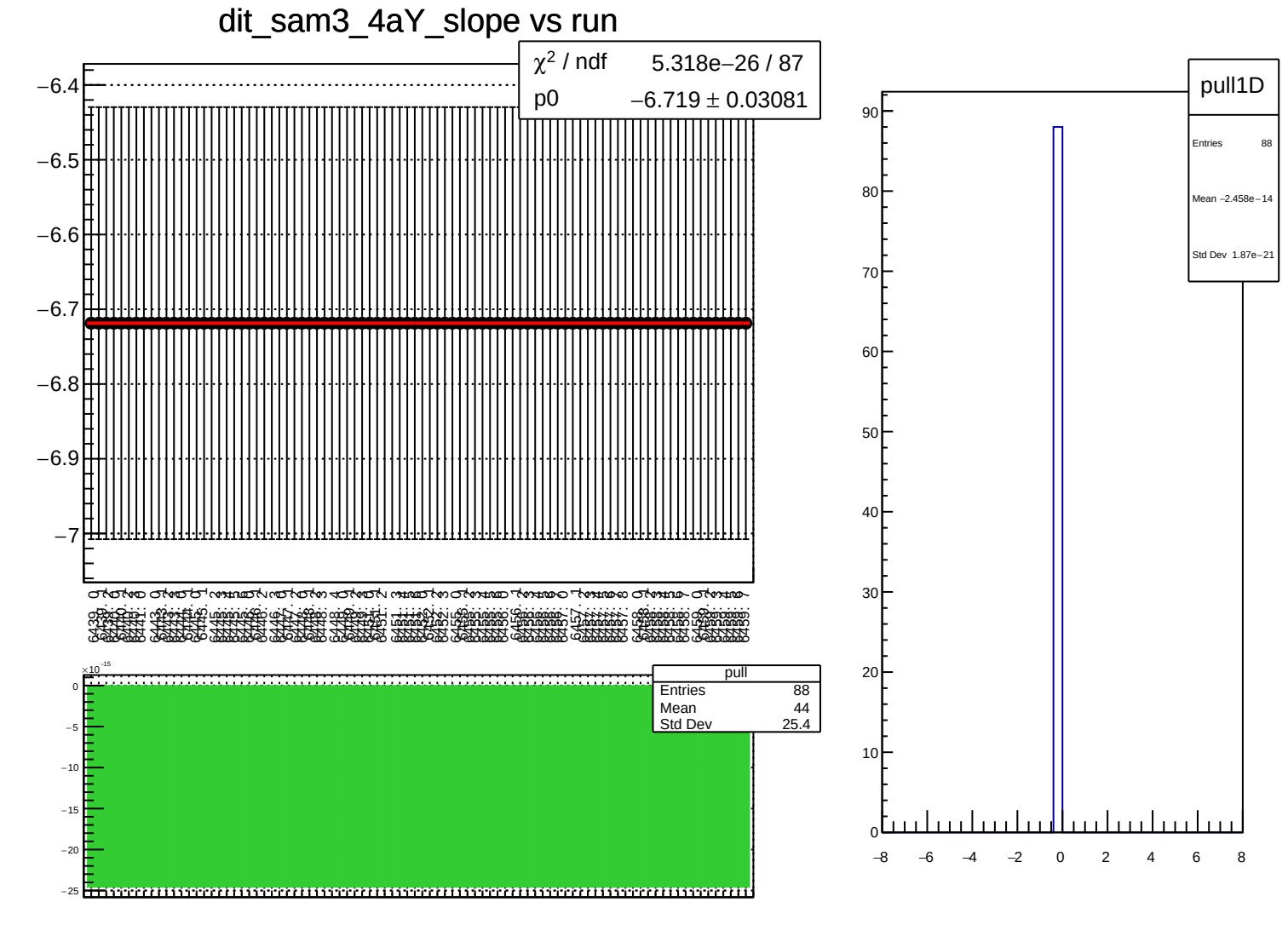

dit_sam3_4aX_slope vs run
χ² / ndf 2.333e−28 / 87
p0 −12.98 ± 0.5814
−8
−10
−12
−14
−16
−18
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6

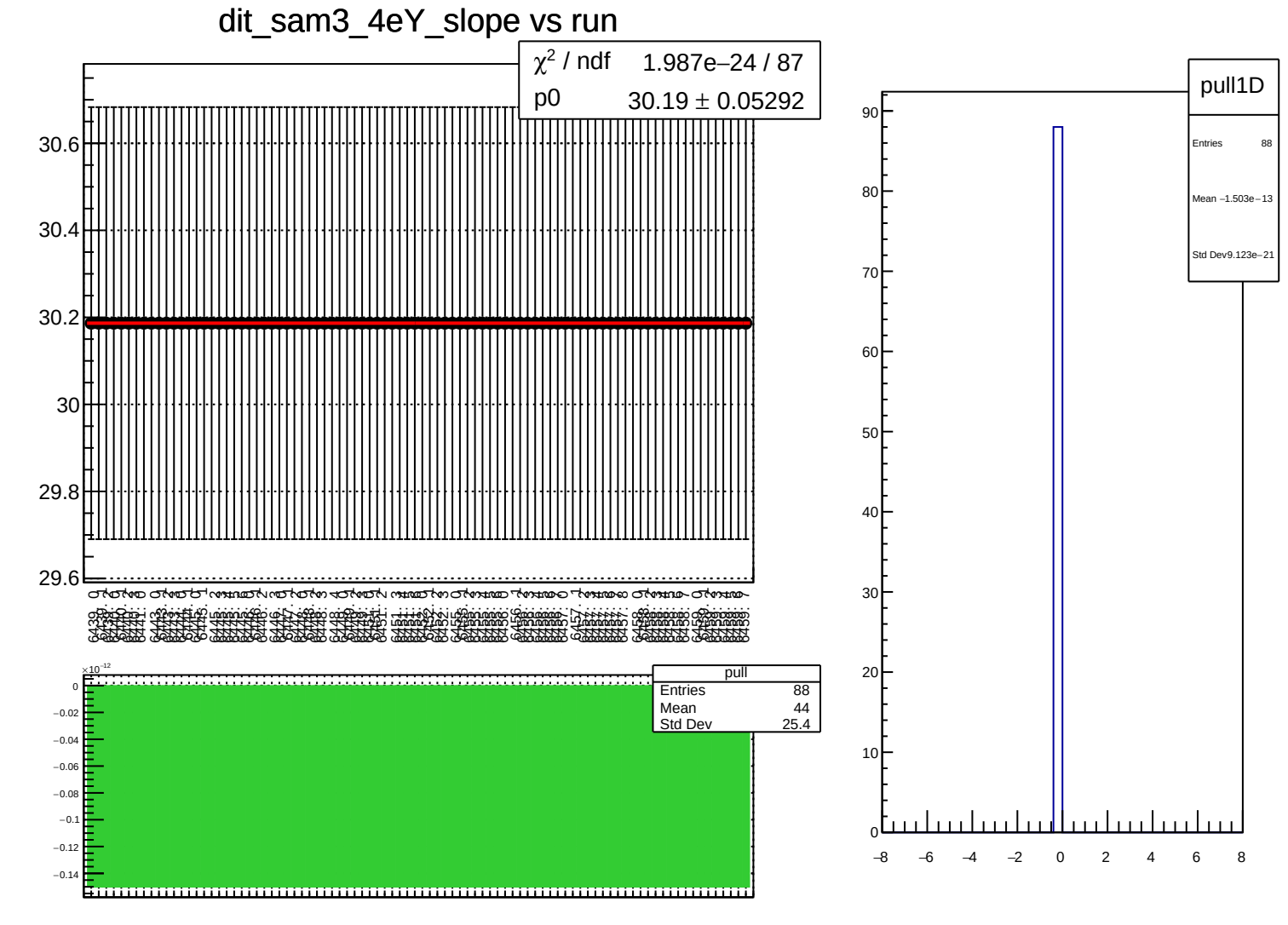

pull1D
Entries 88
Mean −1.628e−15
Std Dev 3.743e−23
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

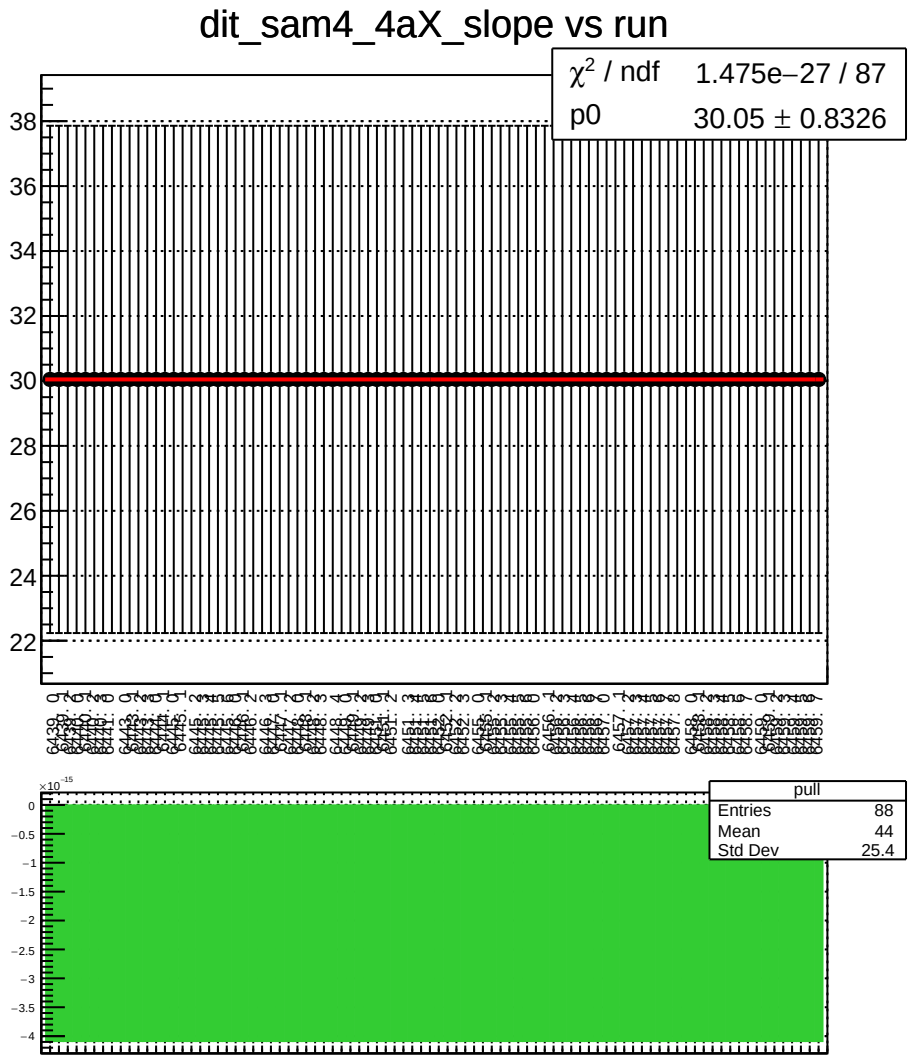

dit_sam3_4eX_slope vs run
χ^2 / ndf 7.226e−26 / 87
p0 −121.1 ± 0.5287
−116
−118
−120
−122
−124
−126
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
30
25
20
15
10
5
0
pull1D
Entries 88
Mean 2.866e−14
Std Dev1.527e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

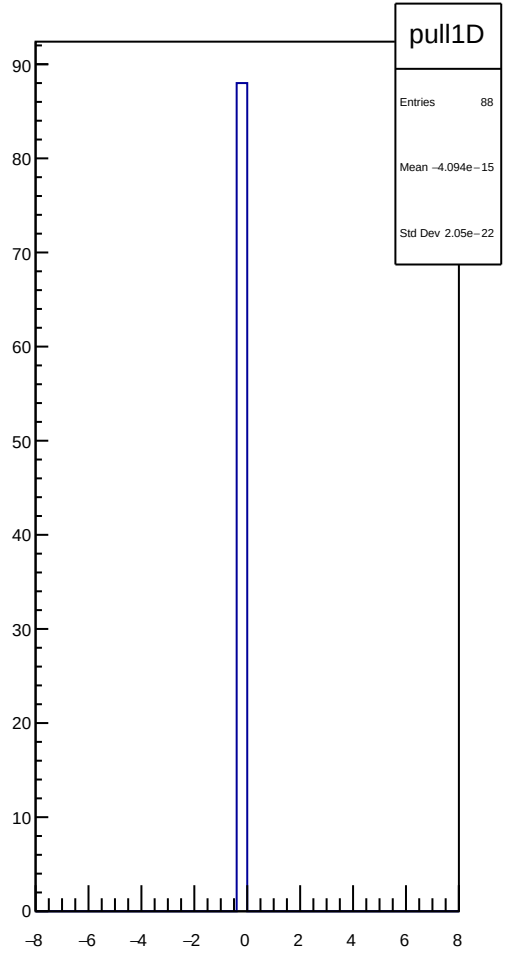

dit_sam3_11X12X_slope vs run
χ² / ndf 1.705e−27 / 87
p0 0.2656 ± 0.005377
0.32
0.3
0.28
0.26
0.24
0.22
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0

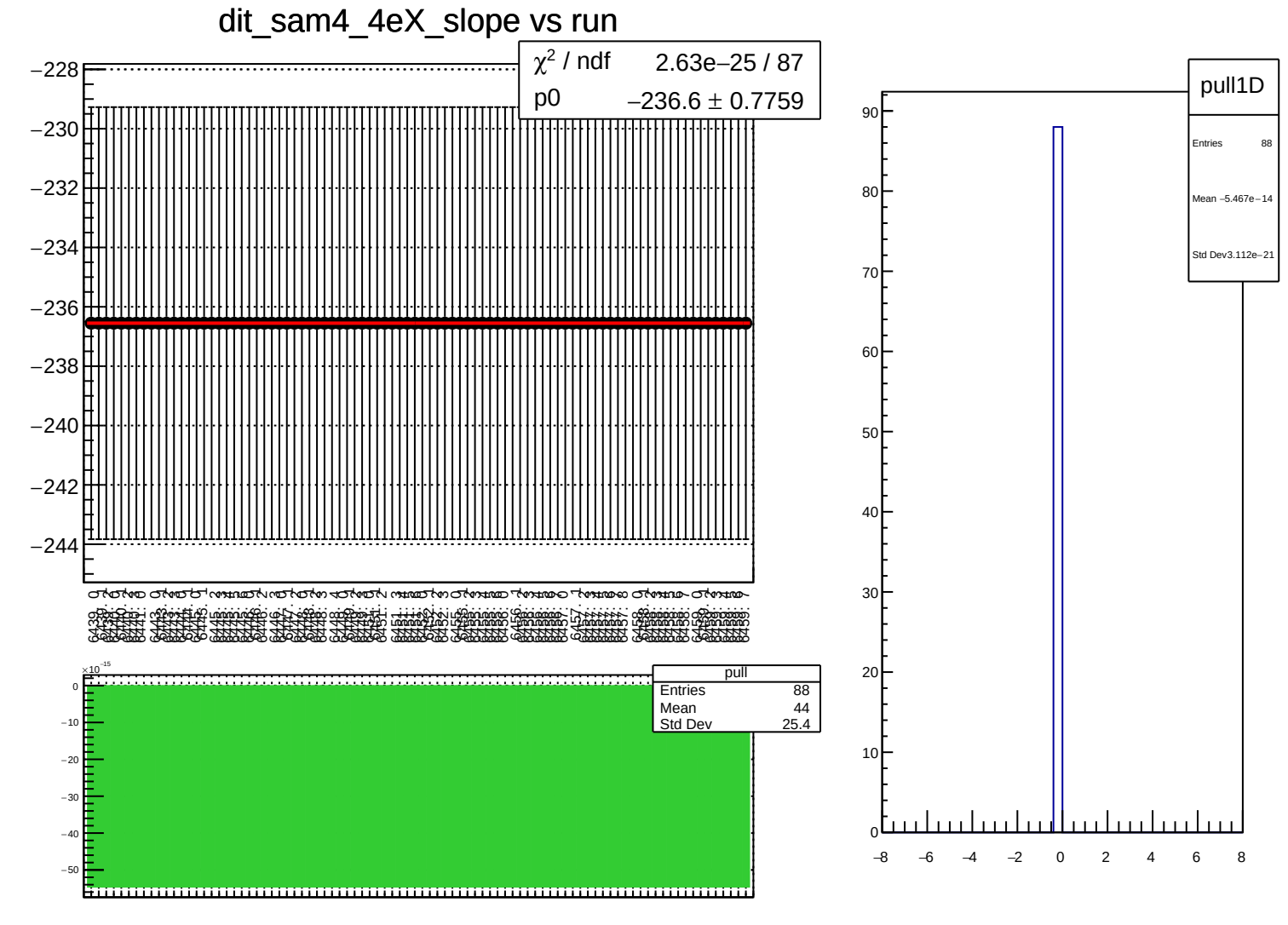

pull1D
Entries 88
Mean 4.402e−15
Std Dev 2.05e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

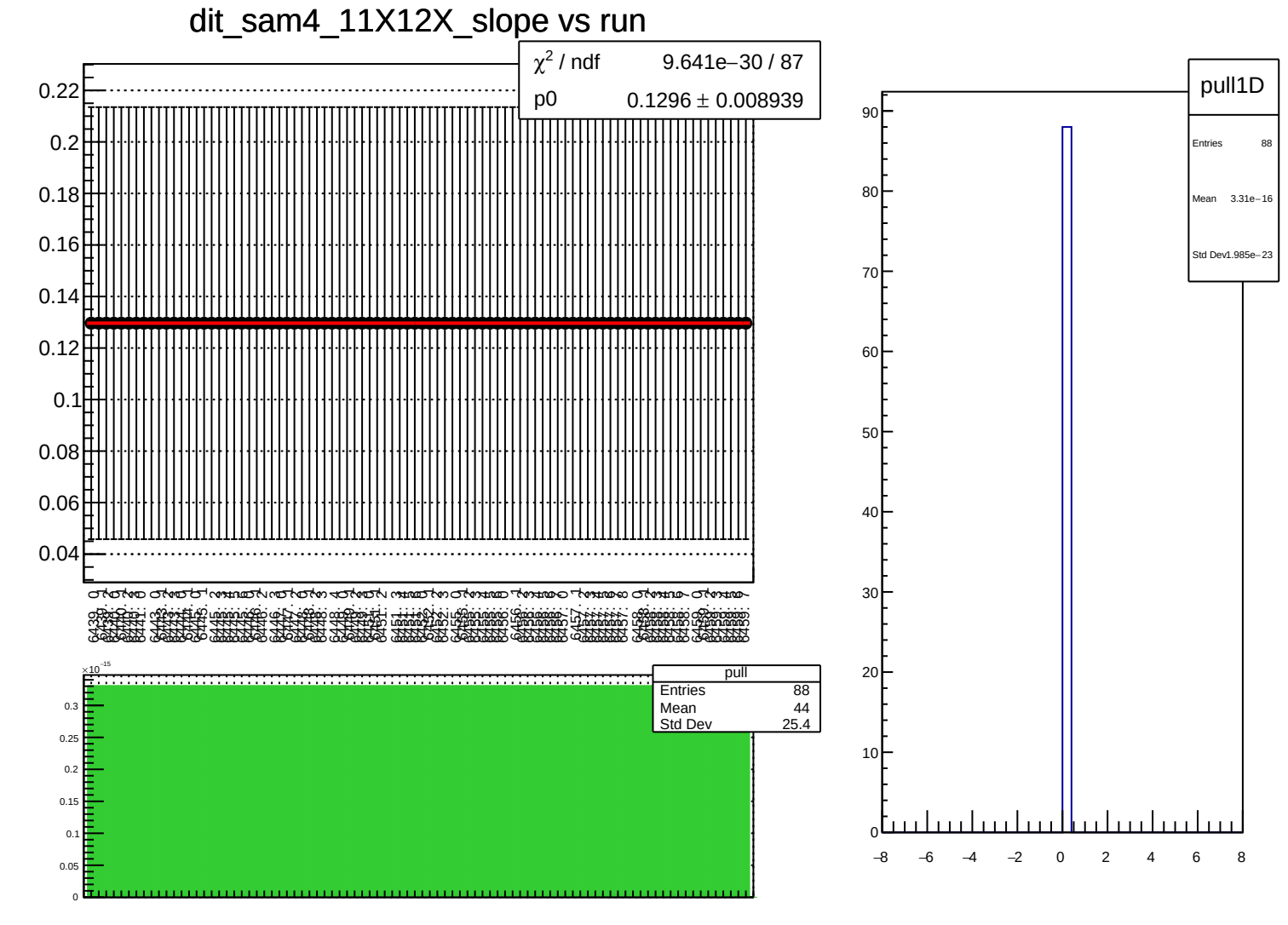

dit_sam3_4aY_slope vs run
χ² / ndf 5.318e−26 / 87
p0 −6.719 ± 0.03081
−6.4
−6.5
−6.6
−6.7
−6.8
−6.9
−7
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0
−5
−10
−15
−20
−25
pull1D
Entries 88
Mean −2.458e−14
Std Dev 1.87e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

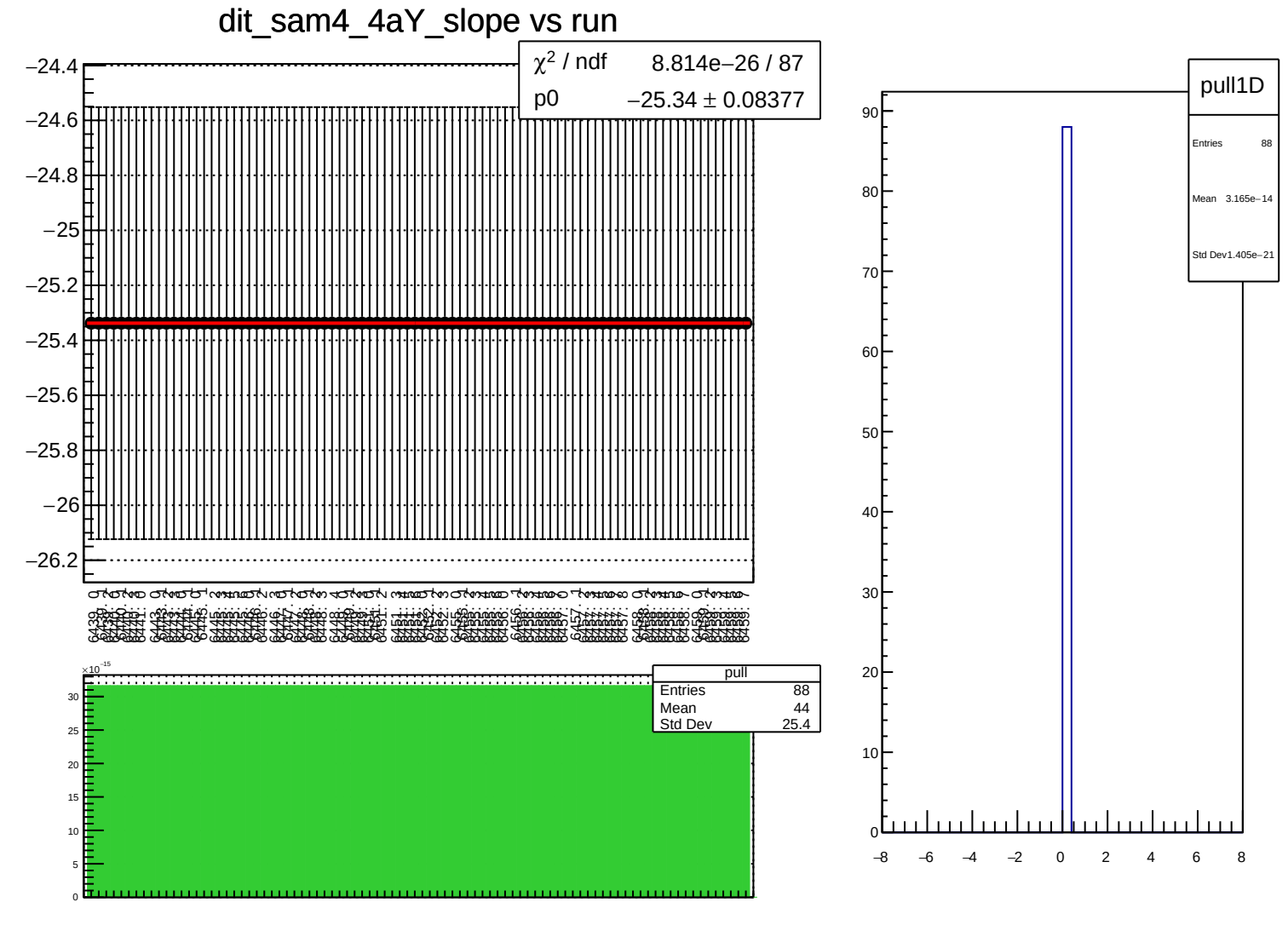

dit_sam3_4eY_slope vs run
χ^2 / ndf 1.987e−24 / 87
p0 30.19 ± 0.05292
30.6
30.4
30.2
30
29.8
29.6
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull1D
Entries 88
Mean −1.503e−13
Std Dev9.123e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

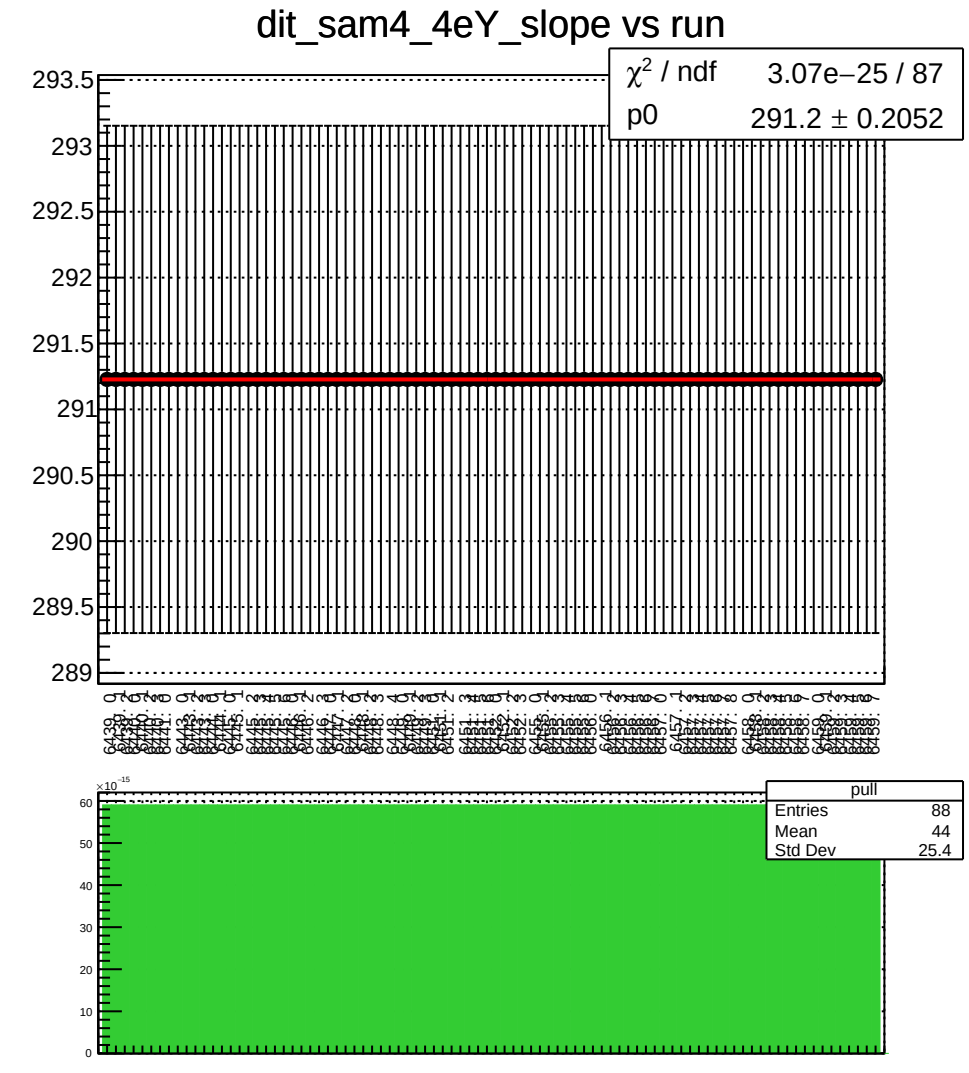

dit_sam4_4aX_slope vs run
χ² / ndf 1.475e−27 / 87
p0 30.05 ± 0.8326
38
36
34
32
30
28
26
24
22
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4

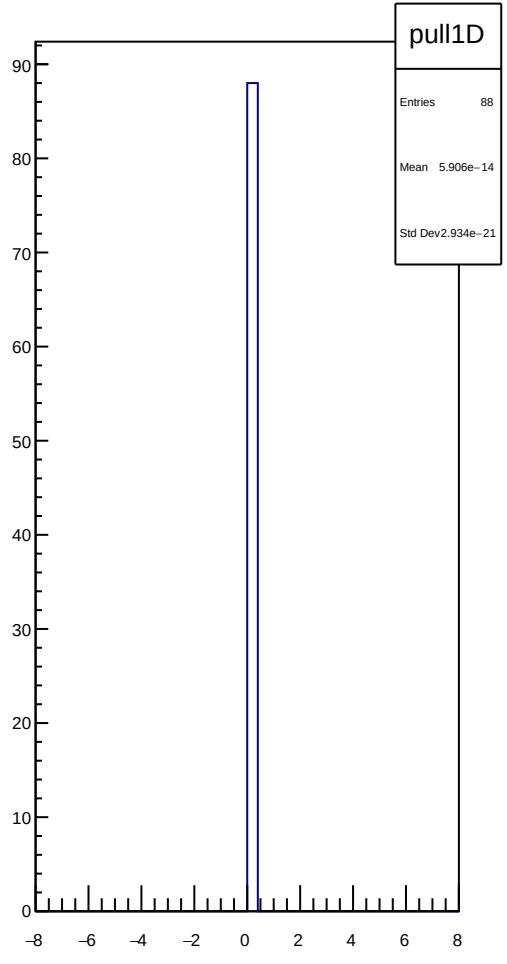

pull1D
Entries 88
Mean −4.094e−15
Std Dev 2.05e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

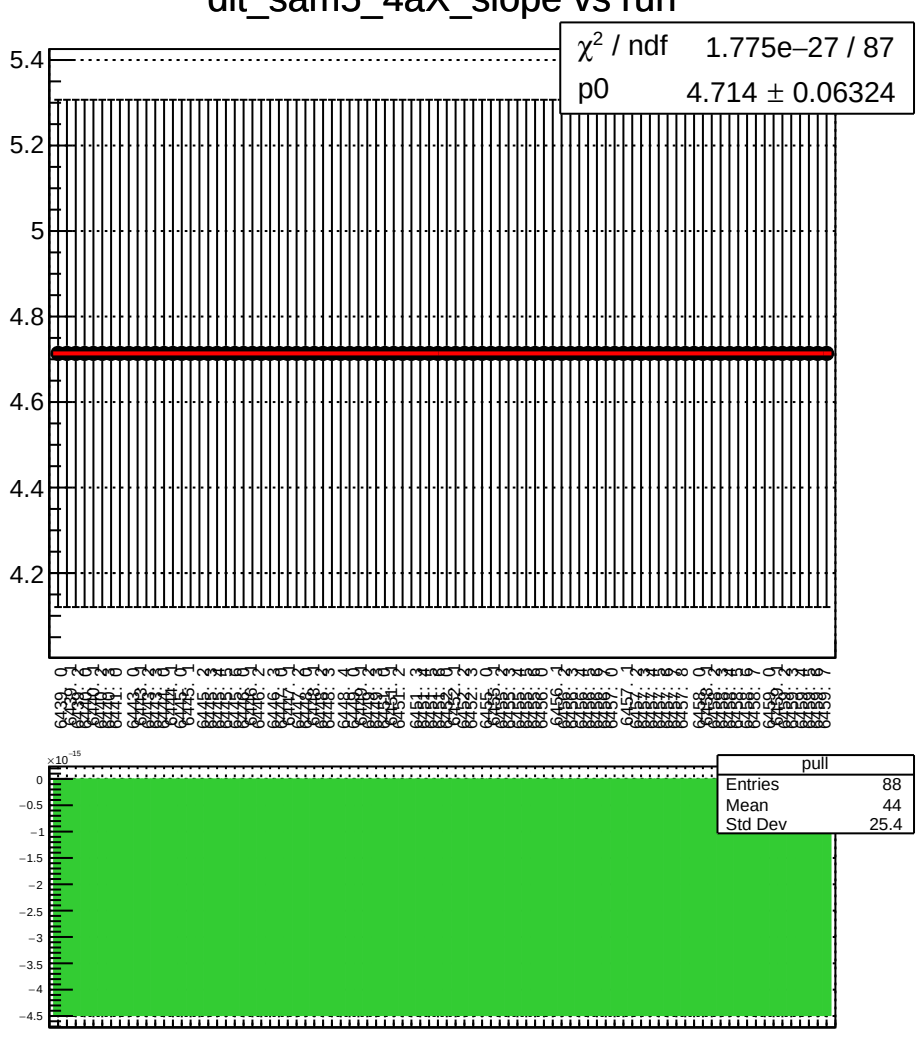

dit_sam4_4eX_slope vs run
χ² / ndf 2.63e−25 / 87
p0 −236.6 ± 0.7759
−228
−230
−232
−234
−236
−238
−240
−242
−244
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0
−10
−20
−30
−40
−50
pull1D
Entries 88
Mean −5.467e−14
Std Dev3.112e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

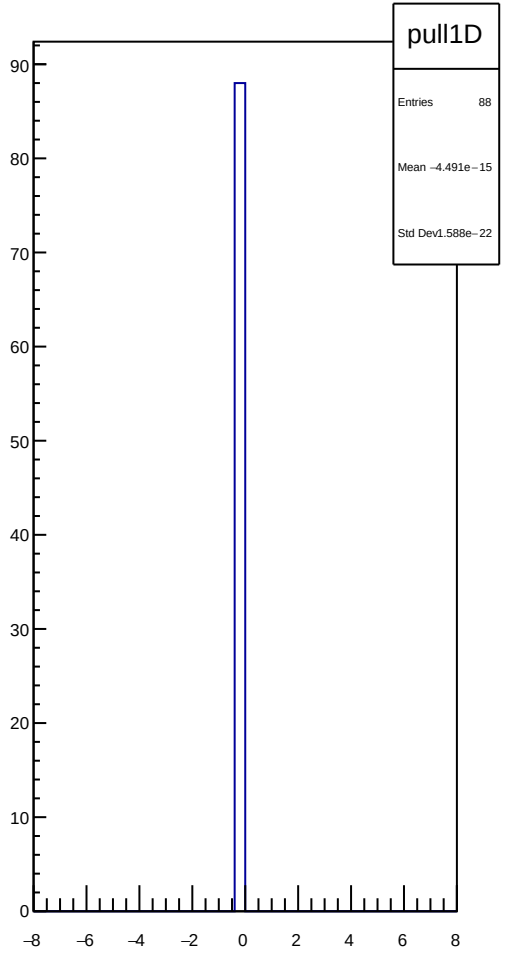

dit_sam4_11X12X_slope vs run
χ² / ndf 9.641e−30 / 87
p0 0.1296 ± 0.008939
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0.3
0.25
0.2
0.15
0.1
0.05
0
pull1D
Entries 88
Mean 3.31e−16
Std Dev 1.985e−23
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

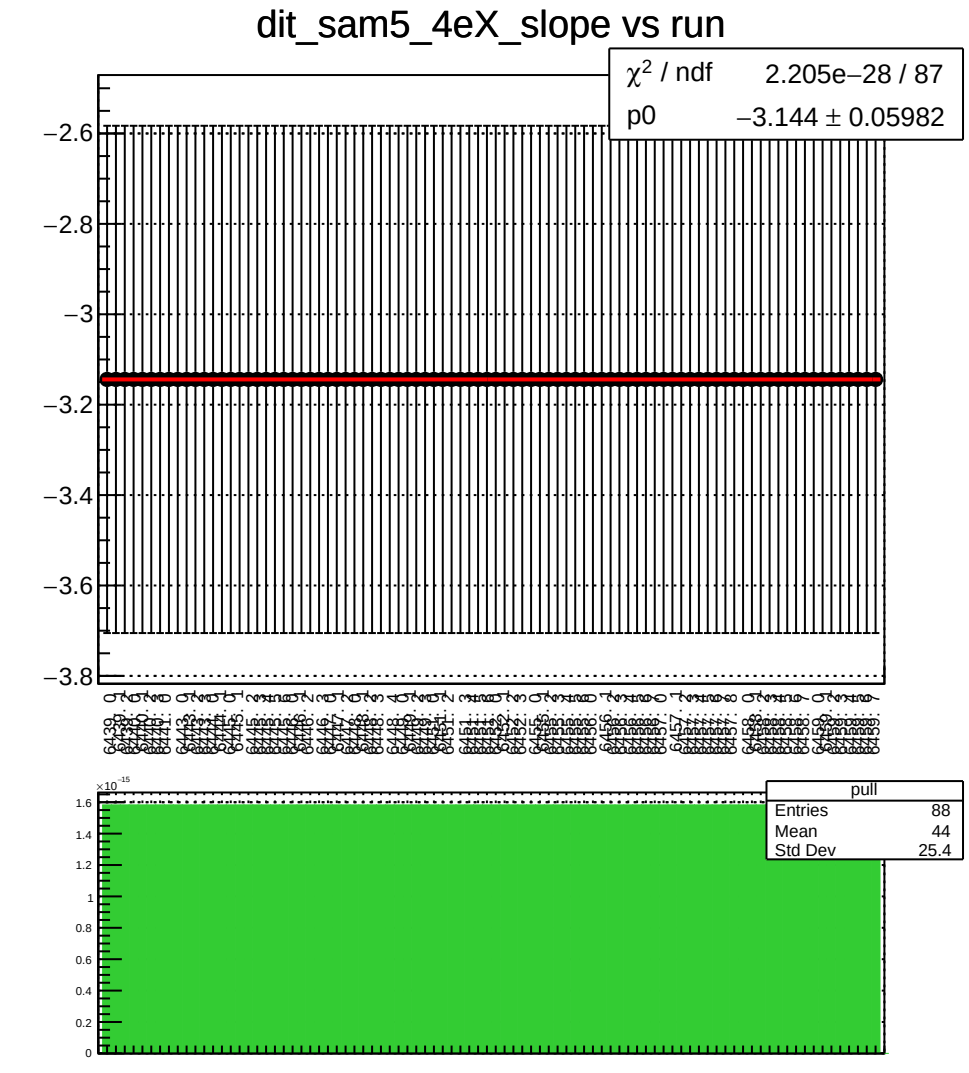

dit_sam4_4aY_slope vs run
χ² / ndf 8.814e−26 / 87
p0 −25.34 ± 0.08377
−24.4
−24.6
−24.8
−25
−25.2
−25.4
−25.6
−25.8
−26
−26.2
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
30
25
20
15
10
5
0
pull1D
Entries 88
Mean 3.165e−14
Std Dev1.405e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

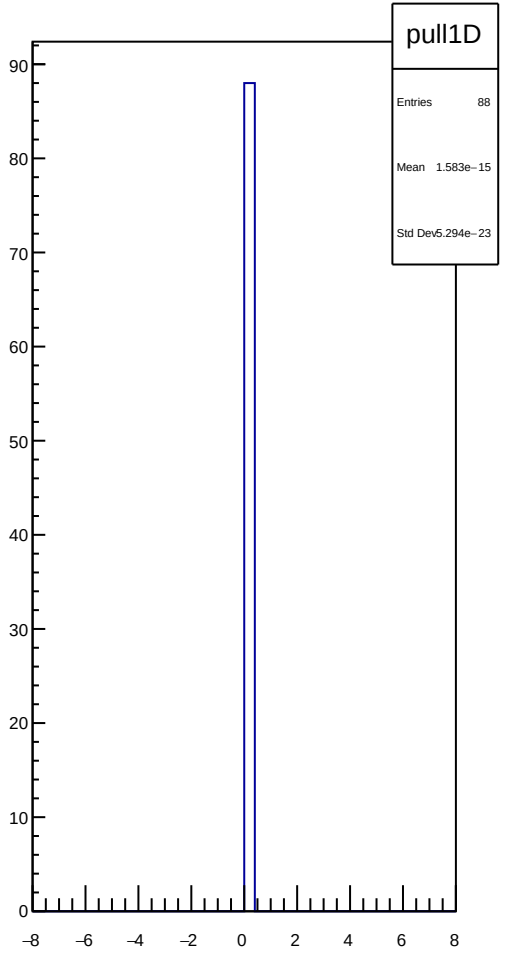

dit_sam4_4eY_slope vs run
χ^2 / ndf 3.07e−25 / 87
p0 291.2 ± 0.2052
293.5
293
292.5
292
291.5
291
290.5
290
289.5
289
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
60
50
40
30
20
10
0

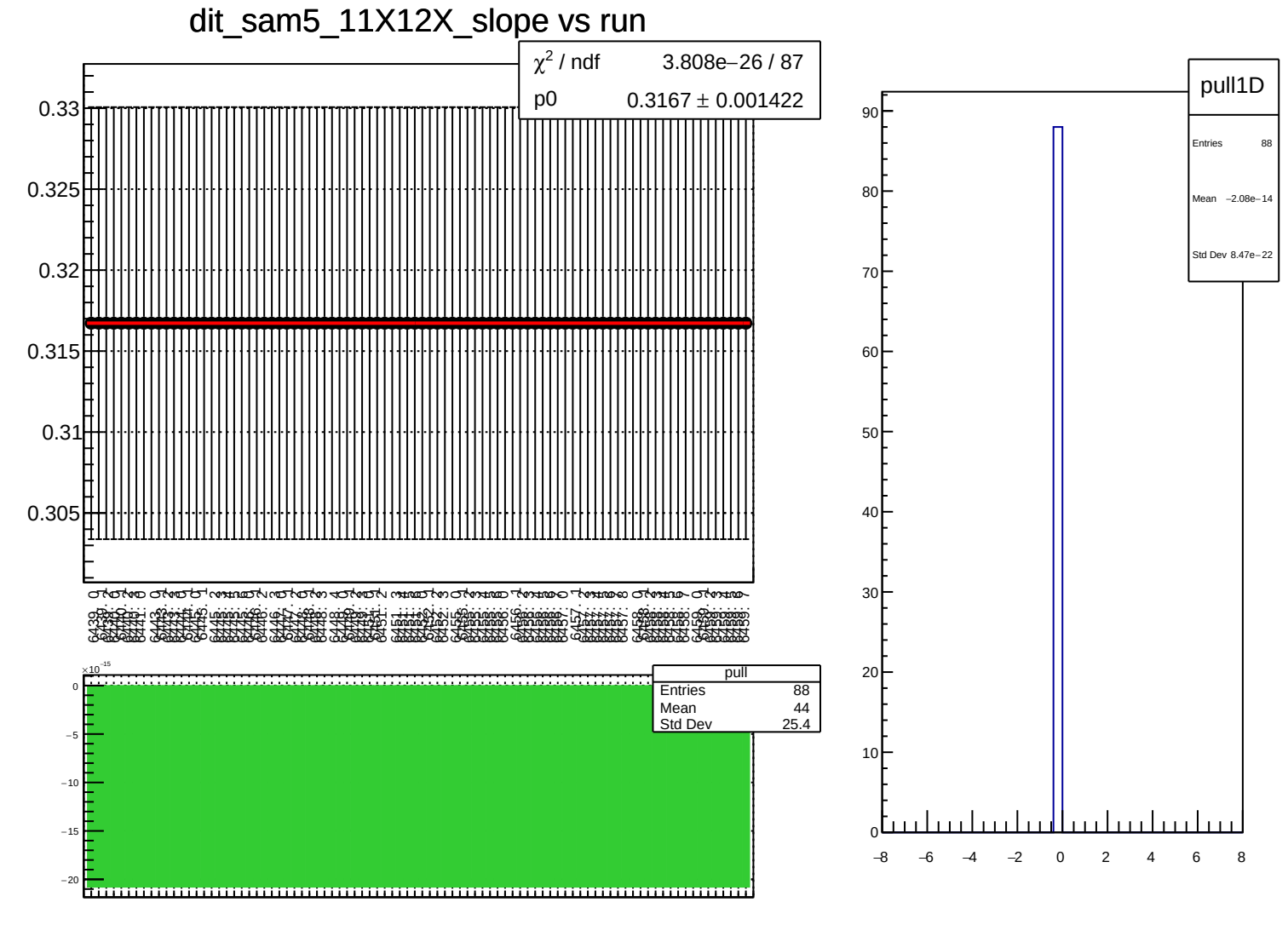

pull1D
Entries 88
Mean 5.906e−14
Std Dev2.934e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

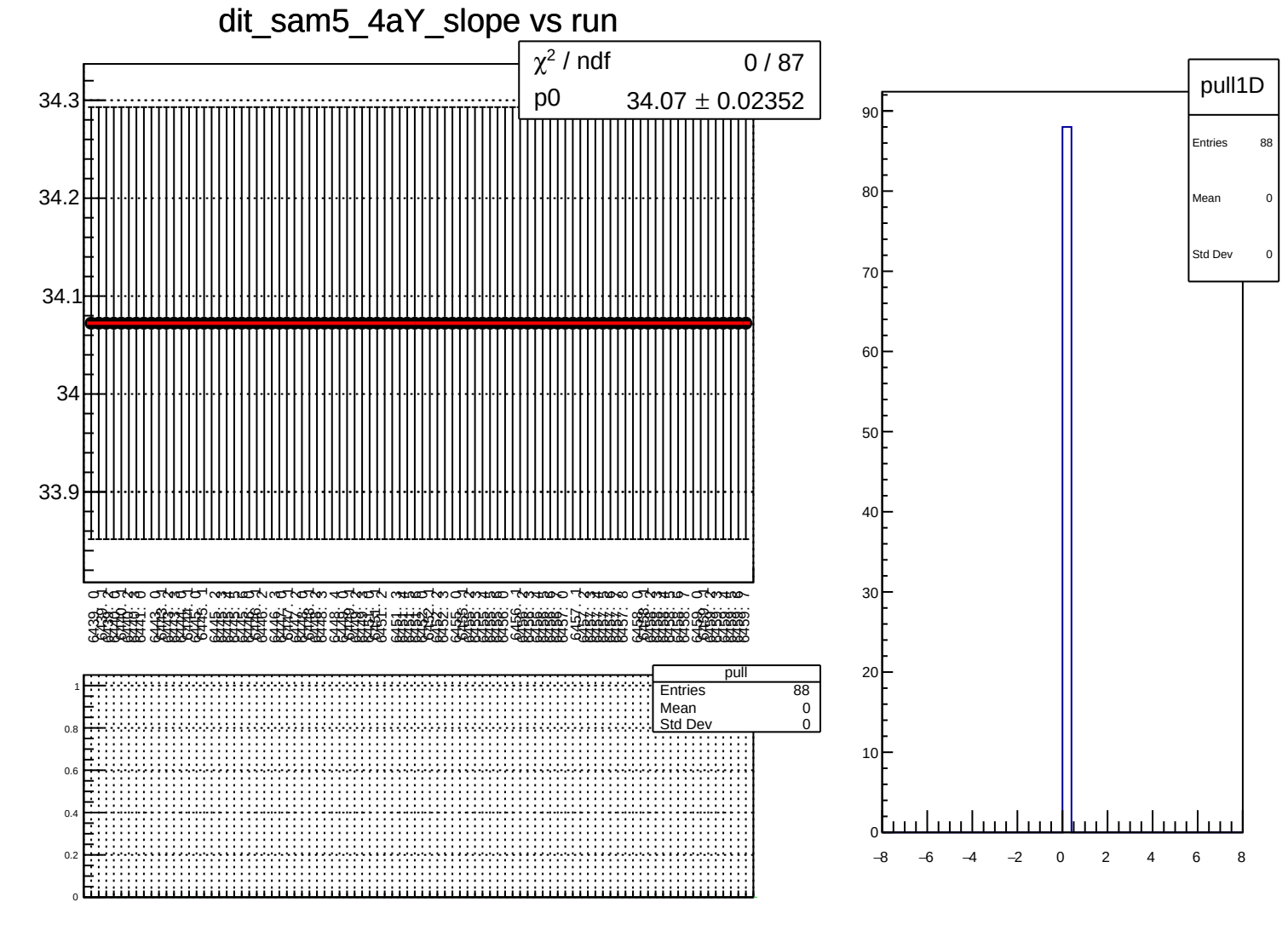

dit_sam5_4aX_slope vs run
χ^2 / ndf 1.775e−27 / 87
p0 4.714 ± 0.06324
5.4
5.2
5
4.8
4.6
4.4
4.2
pull
Entries 88
Mean 44
Std Dev 25.4
×10^-15
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
−4.5

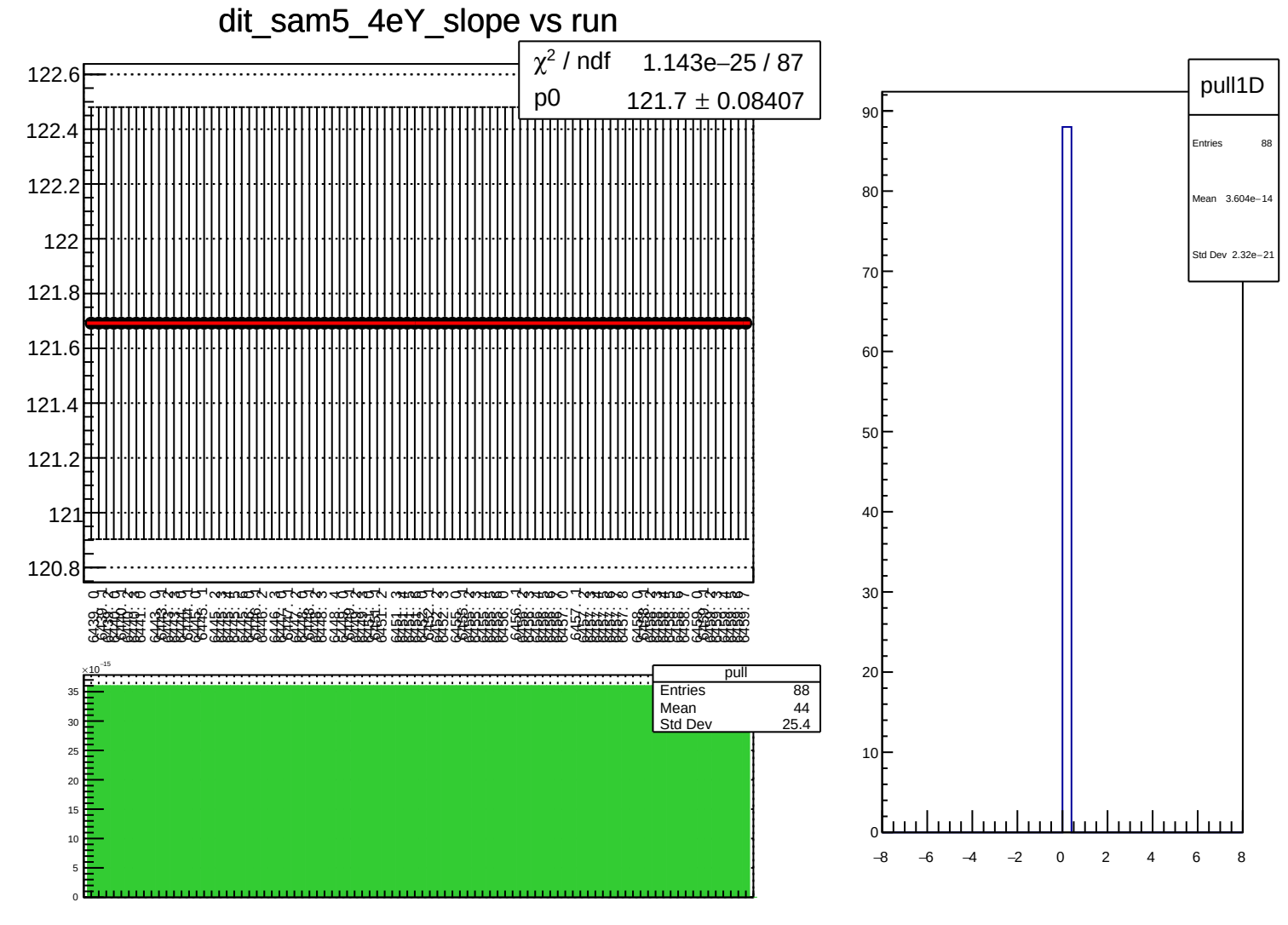

pull1D
Entries 88
Mean −4.491e−15
Std Dev1.588e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

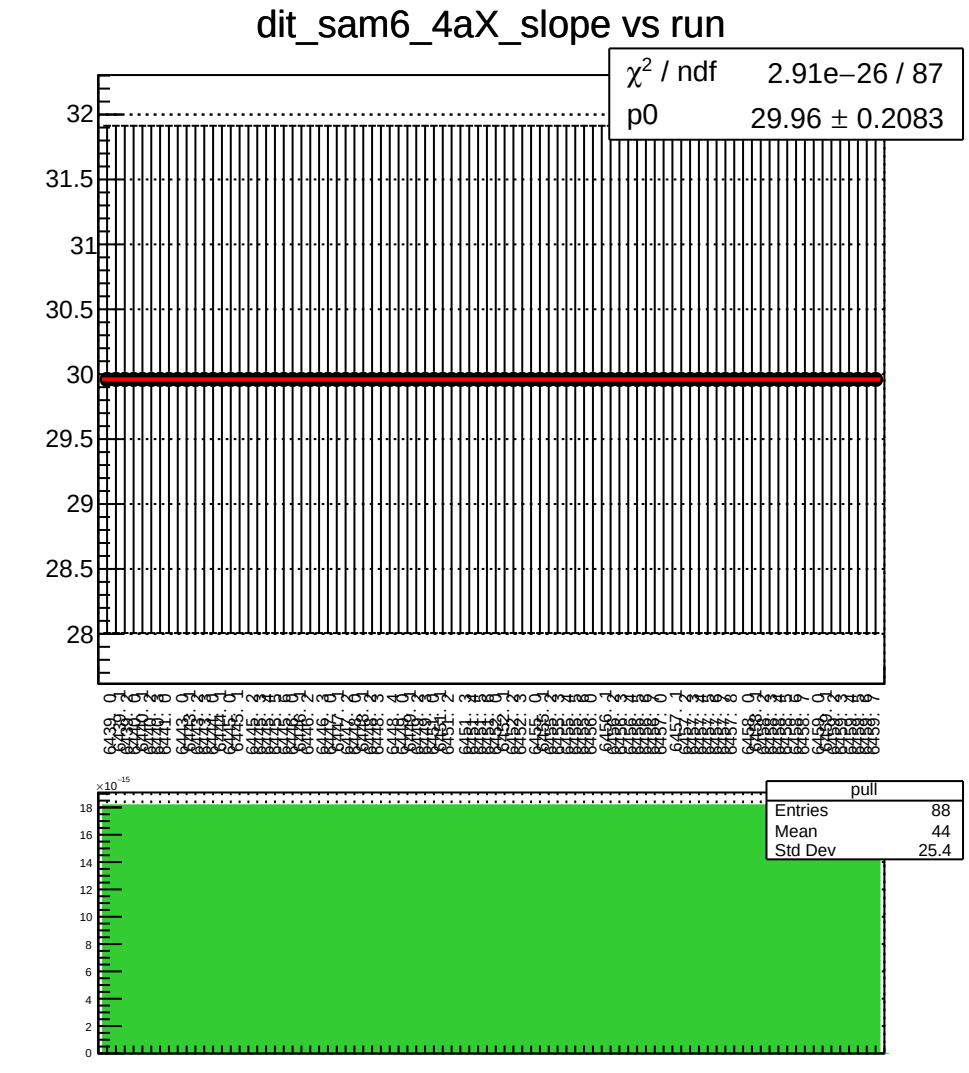

dit_sam5_4eX_slope vs run
χ² / ndf 2.205e−28 / 87
p0 −3.144 ± 0.05982
−2.6
−2.8
−3
−3.2
−3.4
−3.6
−3.8
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

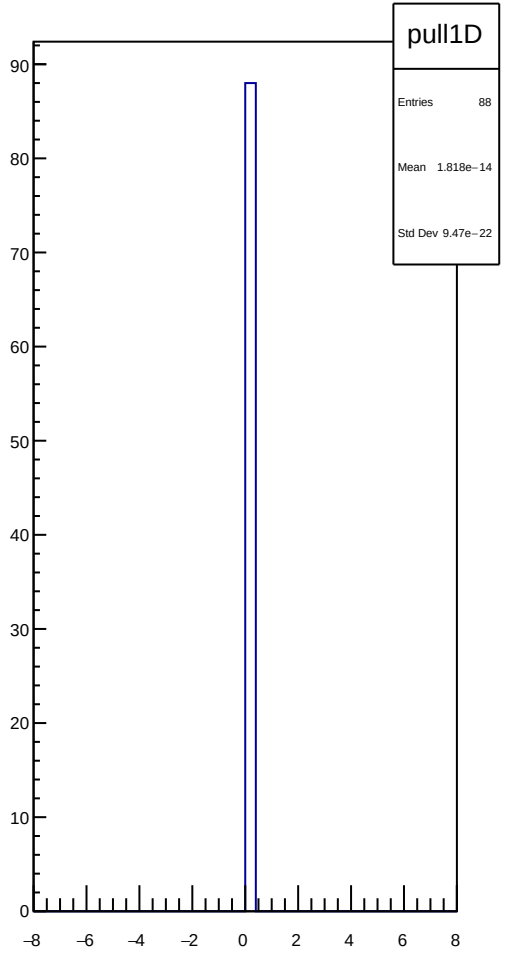

pull1D
Entries 88
Mean 1.583e−15
Std Dev 5.294e−23
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

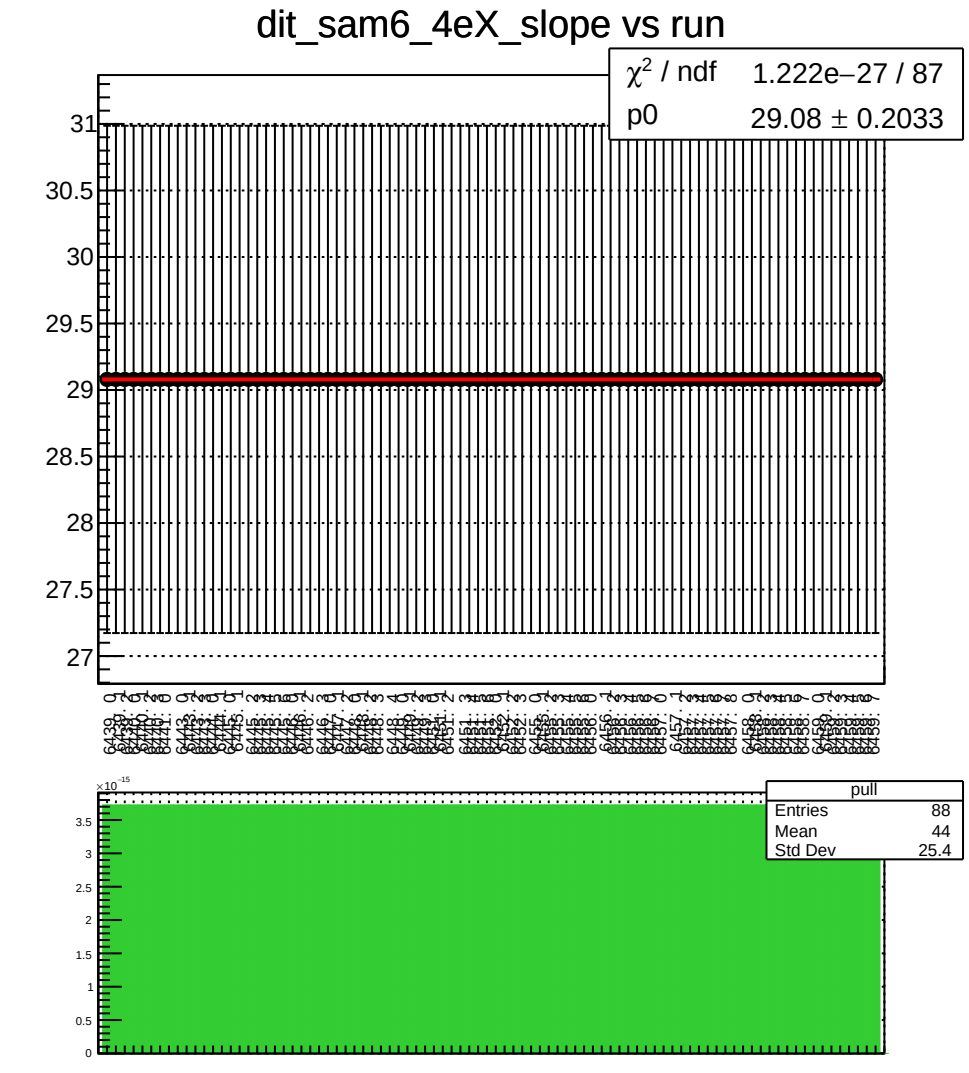

dit_sam5_11X12X_slope vs run
χ² / ndf 3.808e−26 / 87
p0 0.3167 ± 0.001422
0.33
0.325
0.32
0.315
0.31
0.305
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0
−5
−10
−15
−20
pull1D
Entries 88
Mean −2.08e−14
Std Dev 8.47e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

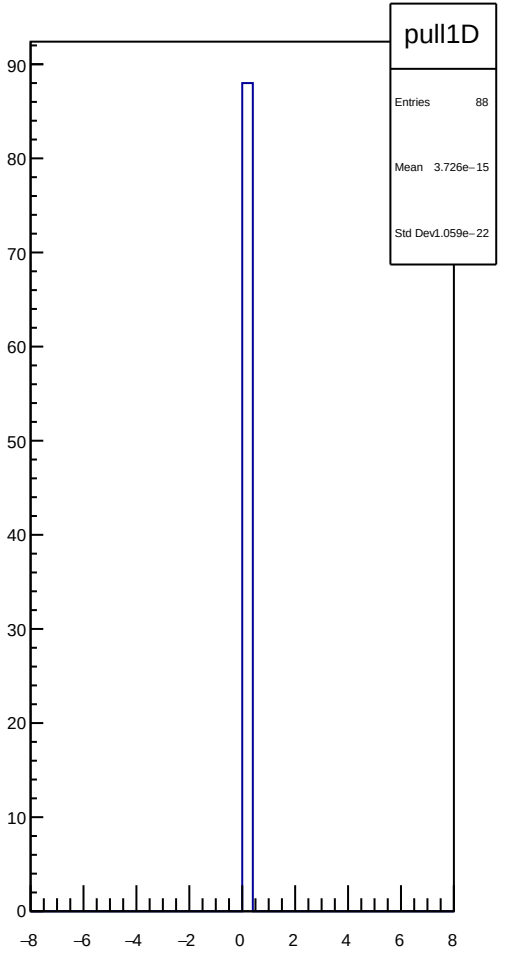

dit_sam5_4aY_slope vs run
χ² / ndf 0 / 87
p0 34.07 ± 0.02352
34.3
34.2
34.1
34
33.9
pull
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 88
Mean 0
Std Dev 0
90
80
70
60
50
40
30
20
10
0
–8
–6
–4
–2
0
2
4
6
8

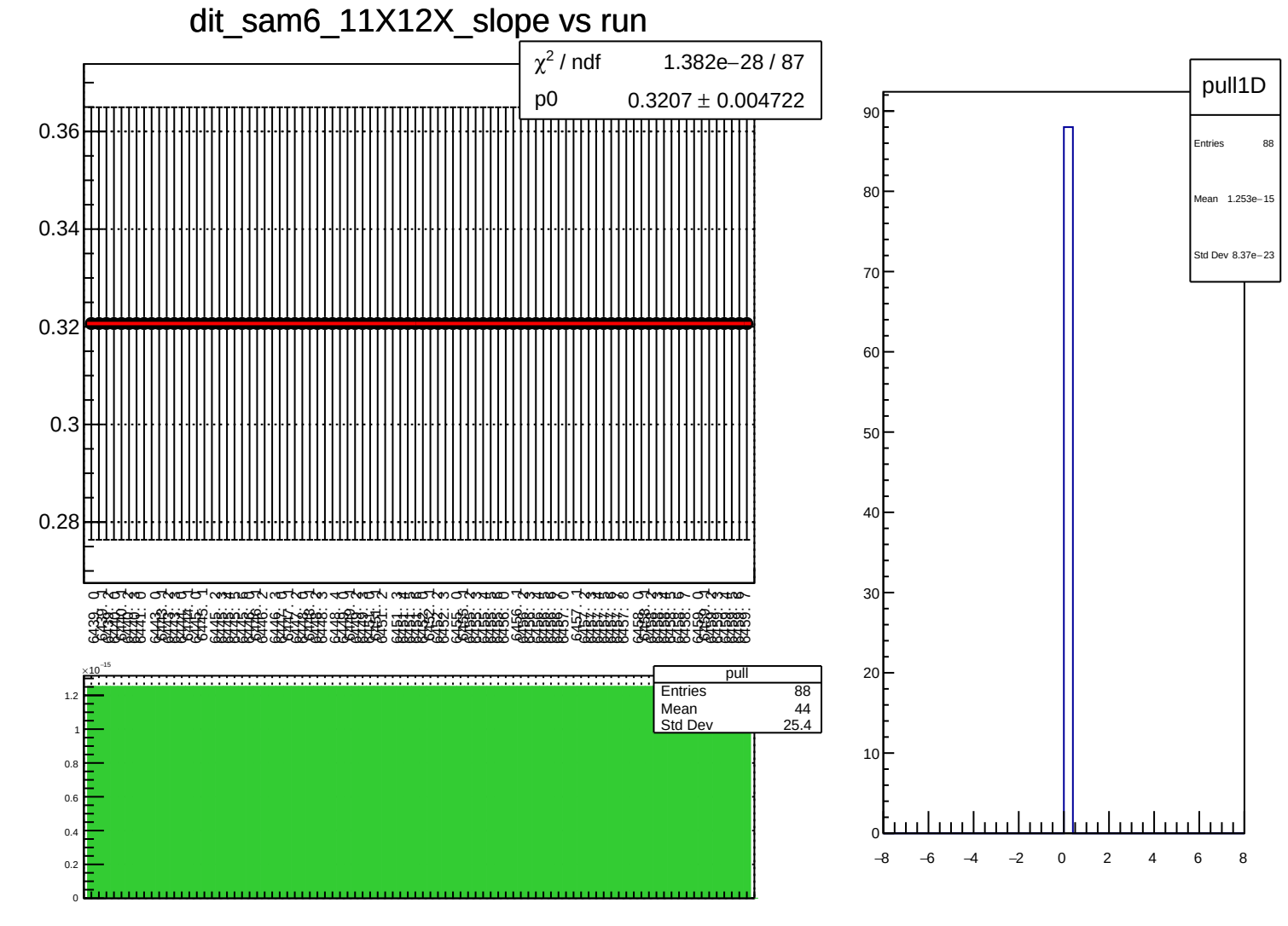

dit_sam5_4eY_slope vs run
χ^2 / ndf 1.143e−25 / 87
p0 121.7 ± 0.08407
122.6
122.4
122.2
122
121.8
121.6
121.4
121.2
121
120.8
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
35
30
25
20
15
10
5
0
pull1D
Entries 88
Mean 3.604e−14
Std Dev 2.32e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

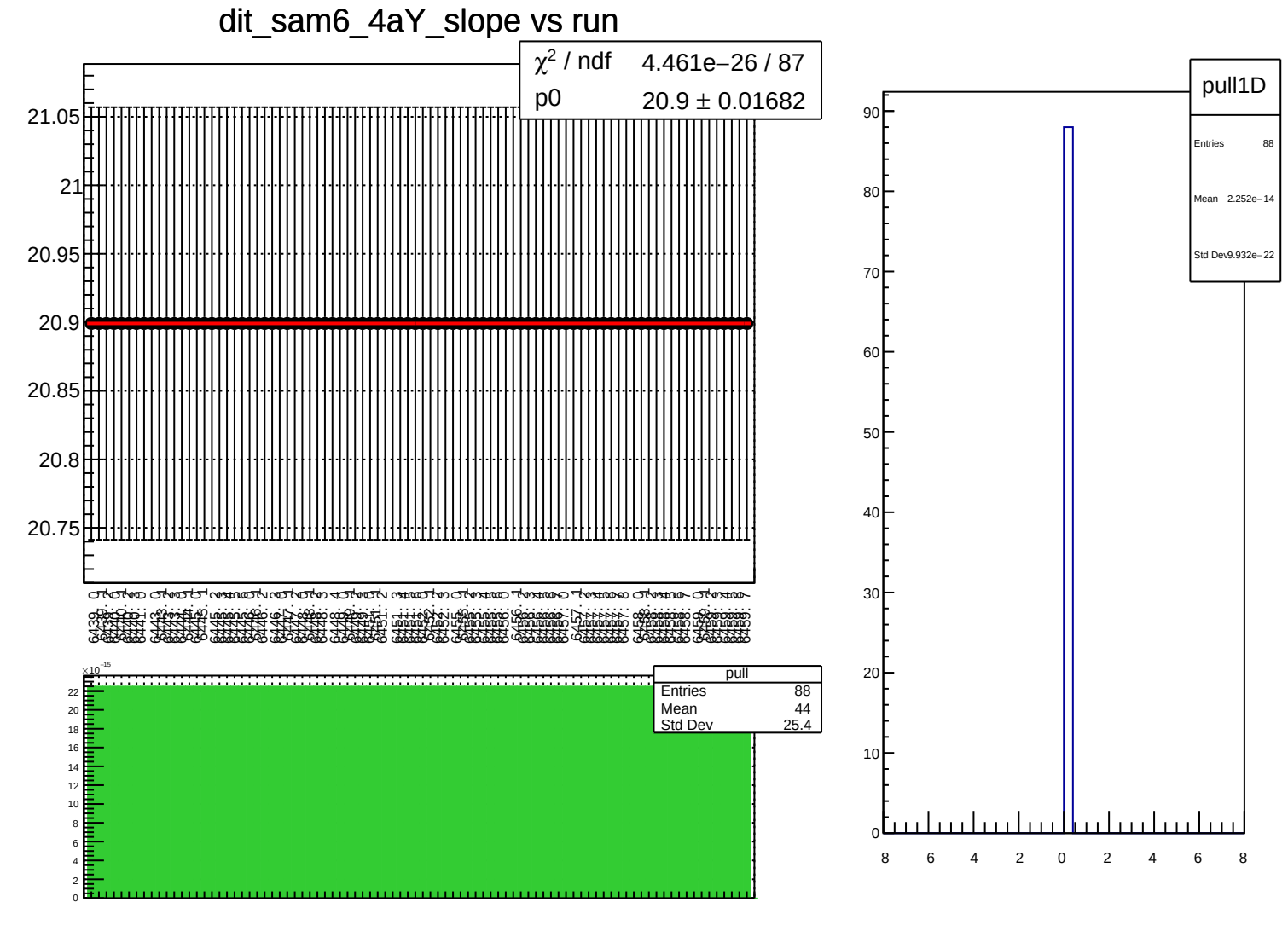

dit_sam6_4aX_slope vs run
χ^2 / ndf 2.91e−26 / 87
p0 29.96 ± 0.2083
32
31.5
31
30.5
30
29.5
29
28.5
28
pull
Entries 88
Mean 44
Std Dev 25.4
×10^-15
18
16
14
12
10
8
6
4
2
0

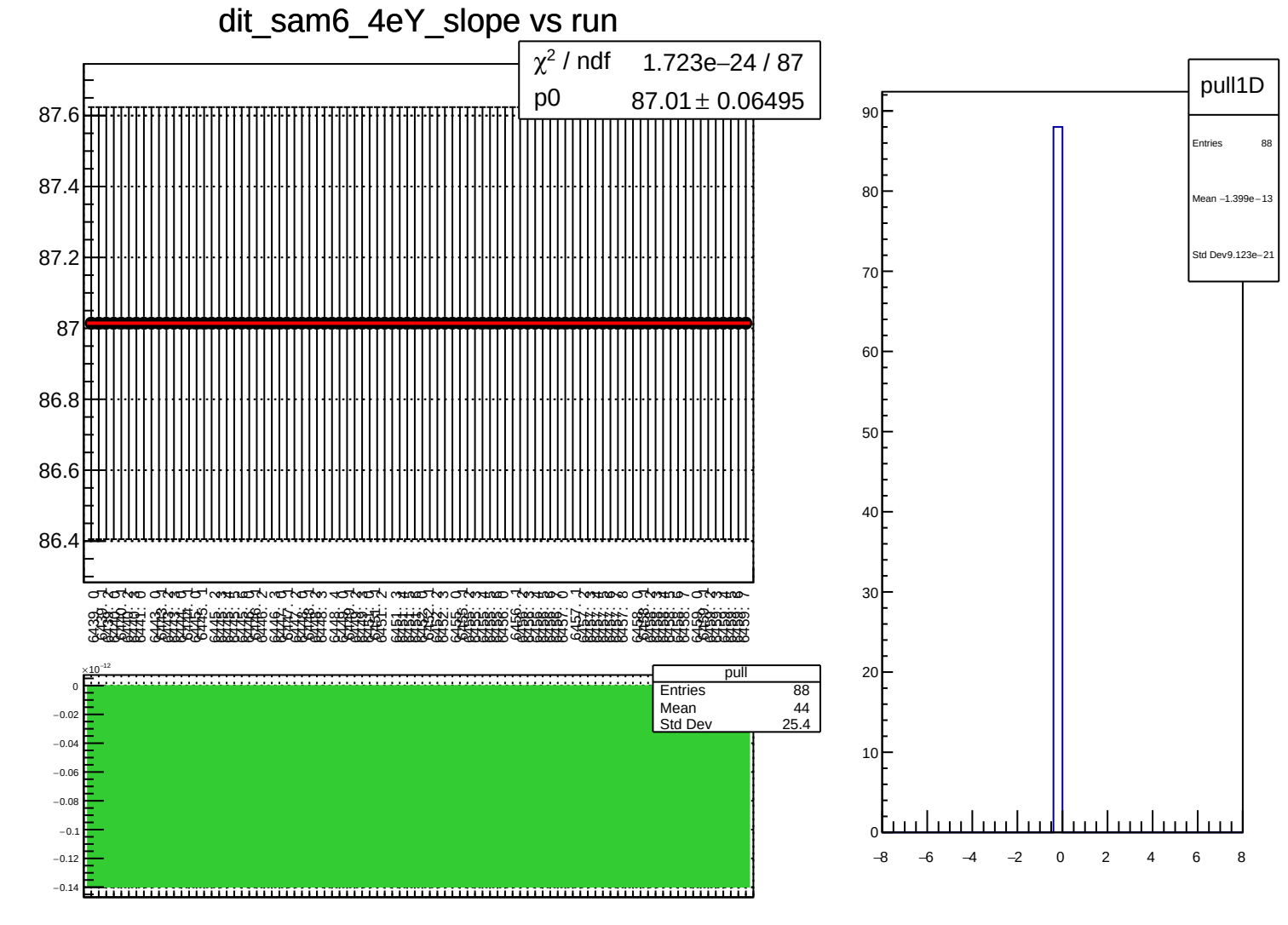

pull1D
Entries 88
Mean 1.818e−14
Std Dev 9.47e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

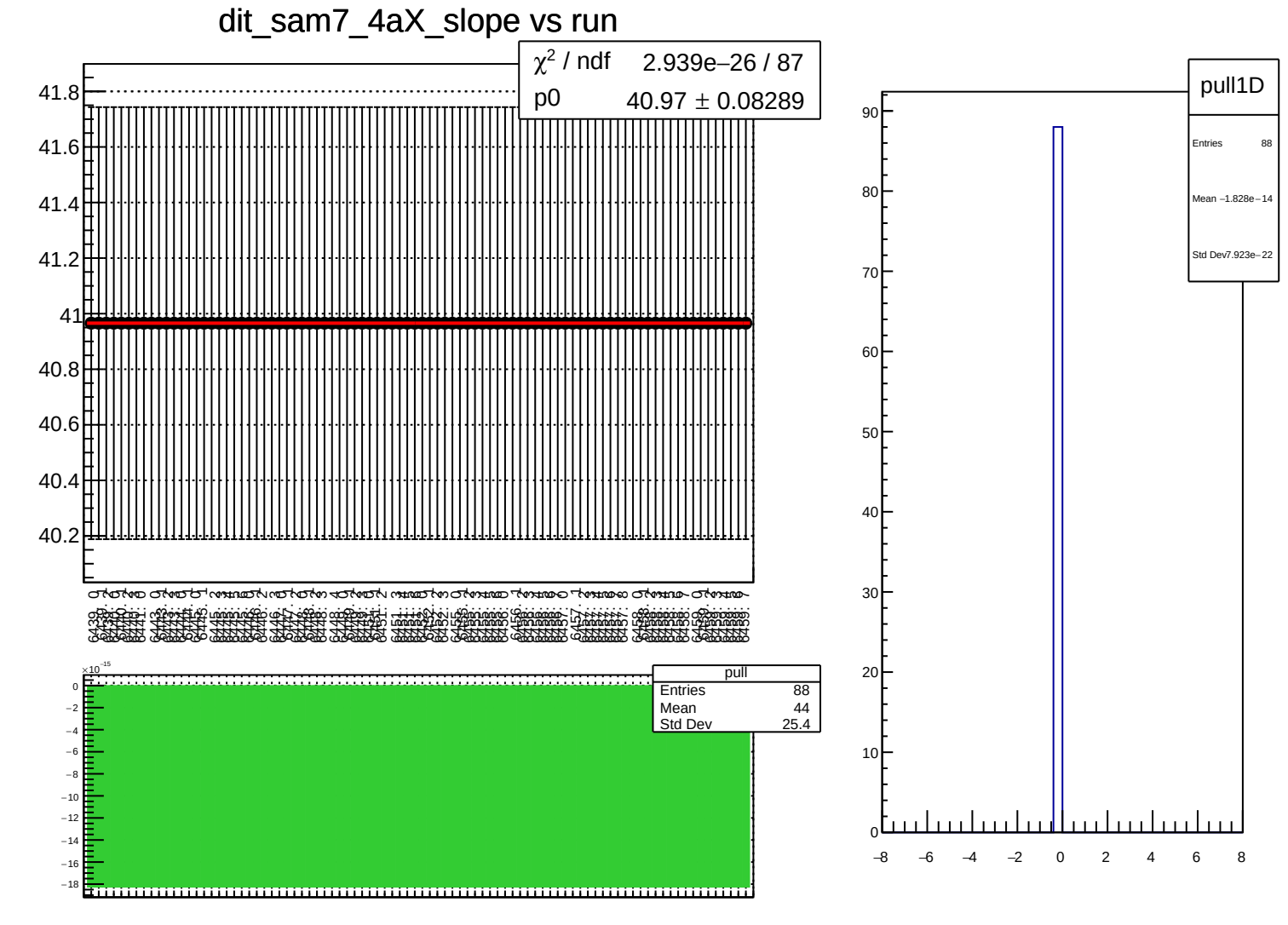

dit_sam6_4eX_slope vs run
χ² / ndf 1.222e−27 / 87
p0 29.08 ± 0.2033
pull
Entries 88
Mean 44
Std Dev 25.4

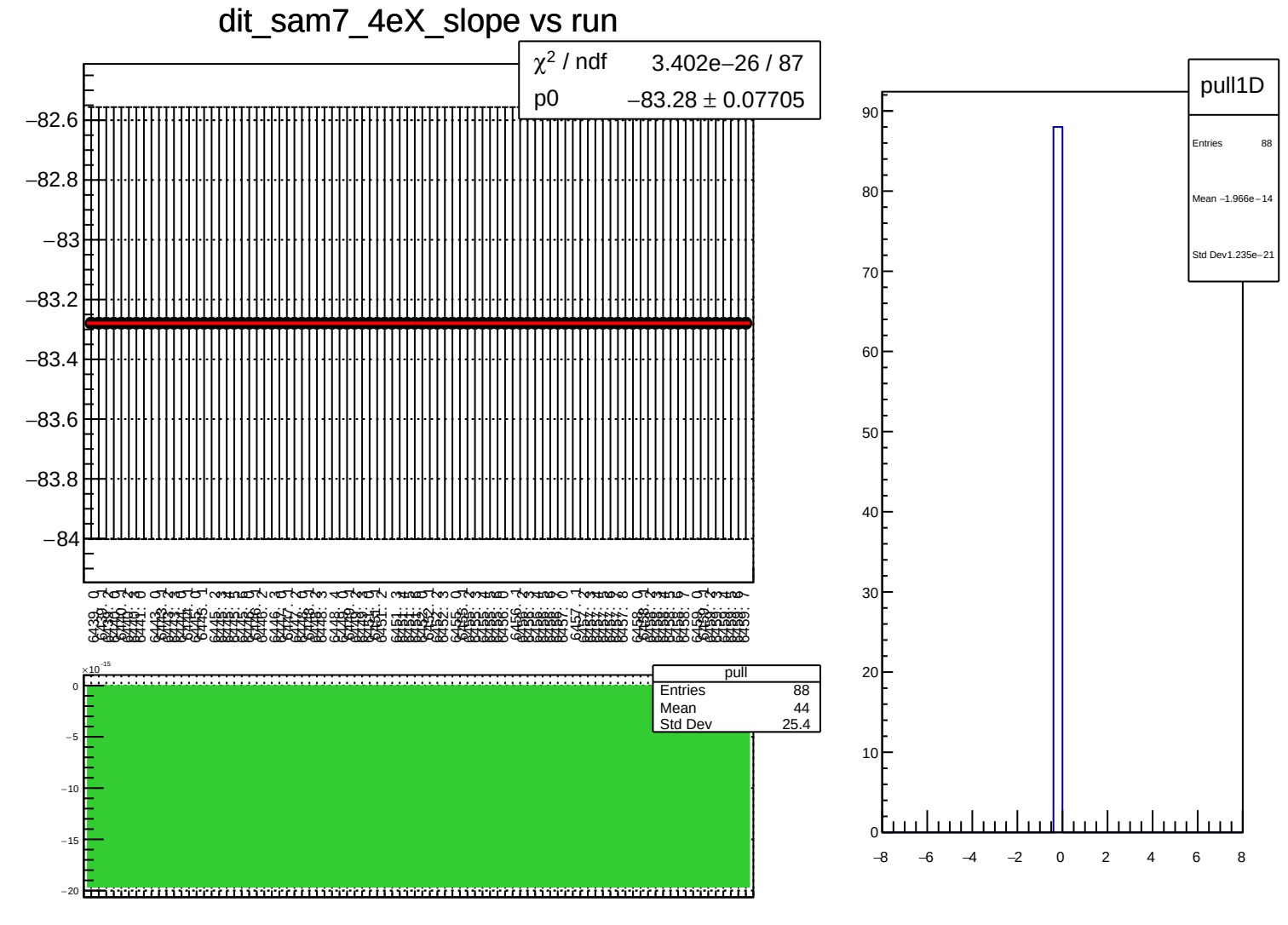

pull1D
Entries 88
Mean 3.726e−15
Std Dev1.059e−22

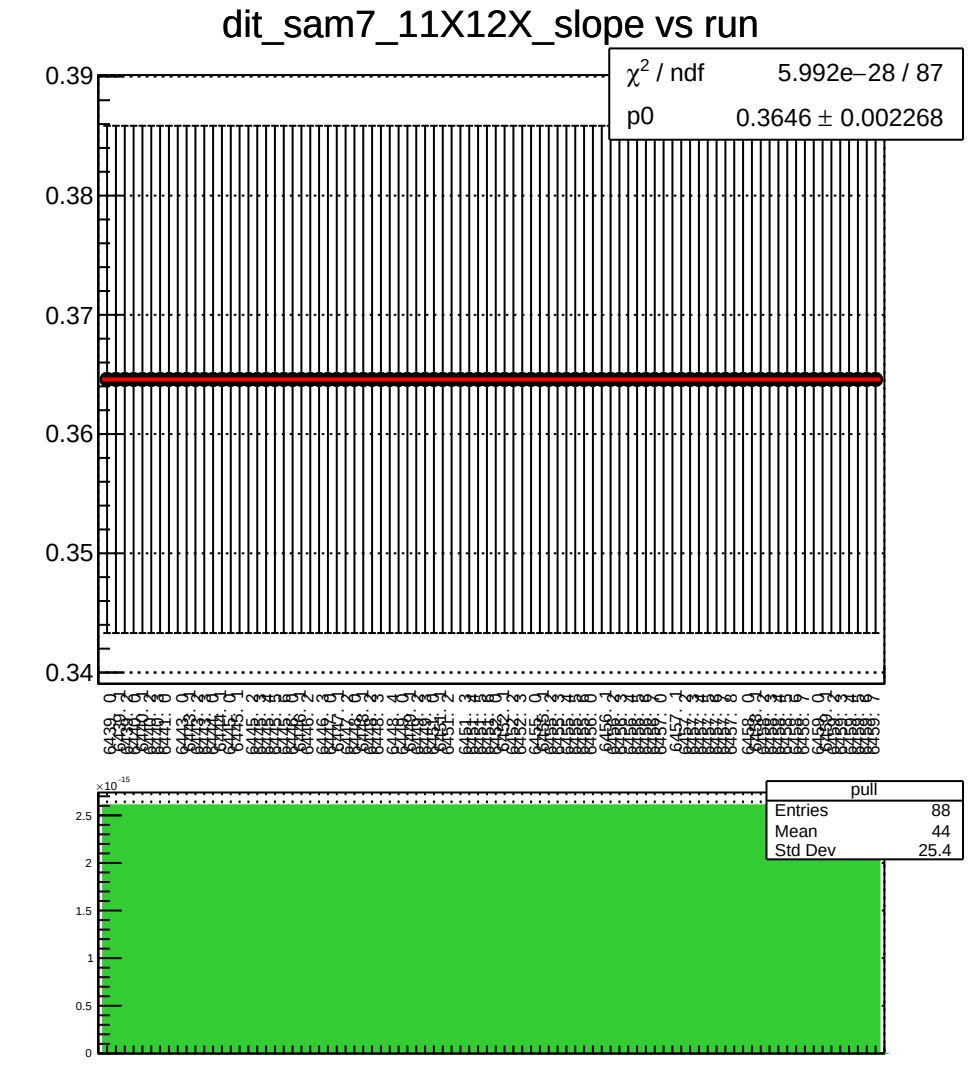

dit_sam6_11X12X_slope vs run
χ² / ndf 1.382e−28 / 87
p0 0.3207 ± 0.004722
0.36
0.34
0.32
0.3
0.28
pull
Entries 88
Mean 44
Std Dev 25.4
pull1D
Entries 88
Mean 1.253e−15
Std Dev 8.37e−23

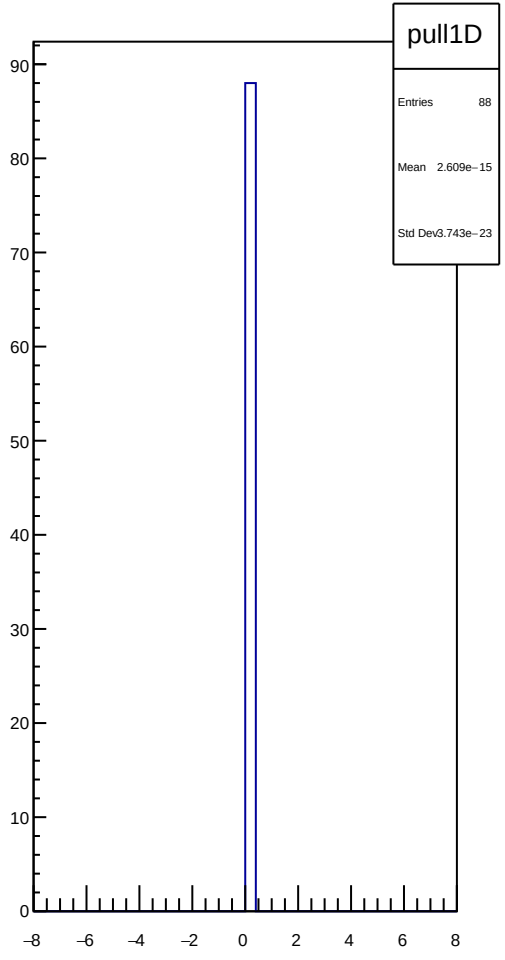

dit_sam6_4aY_slope vs run
χ² / ndf 4.461e−26 / 87
p0 20.9 ± 0.01682
21.05
21
20.95
20.9
20.85
20.8
20.75
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 88
Mean 2.252e−14
Std Dev 9.932e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

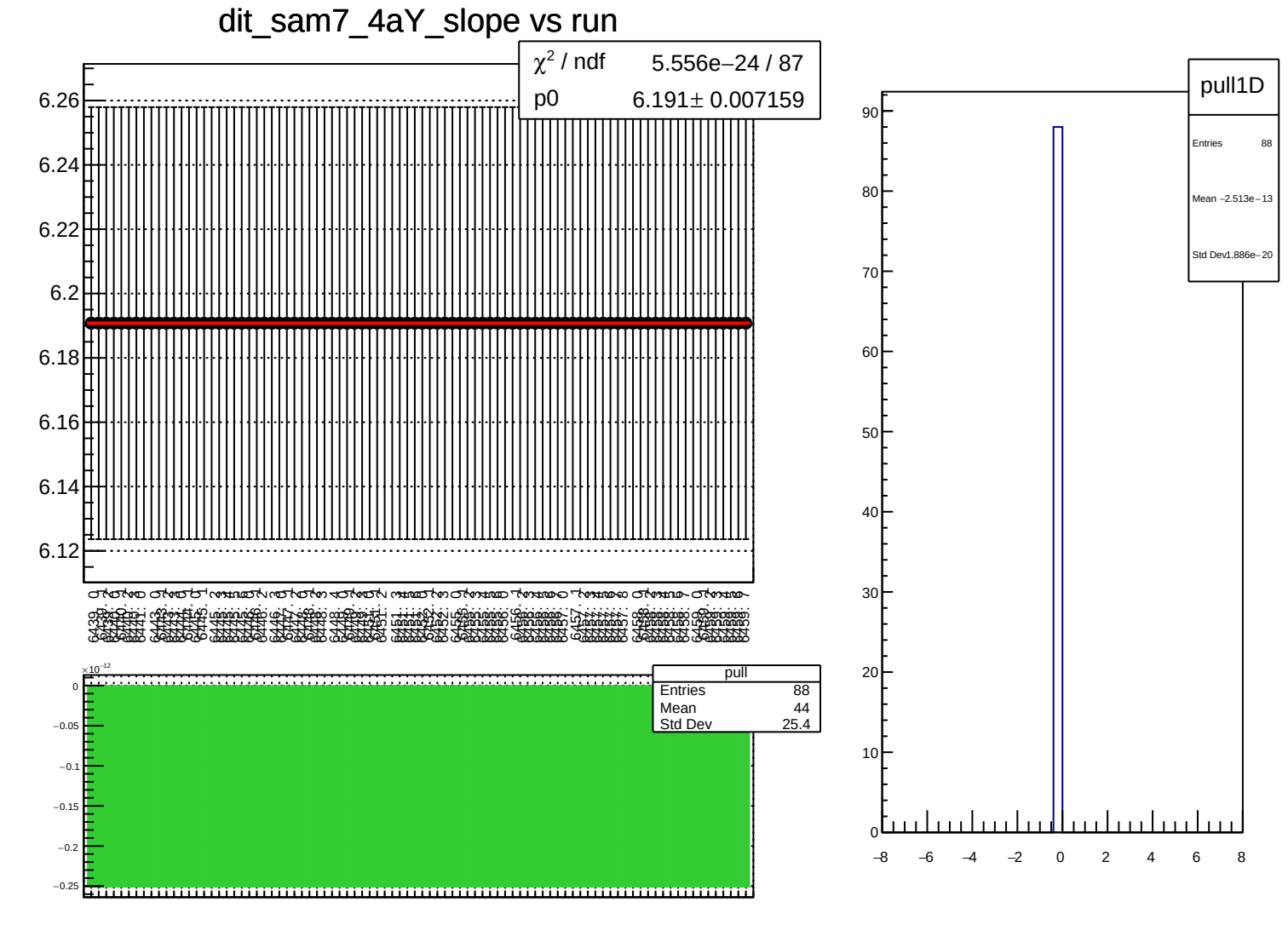

dit_sam6_4eY_slope vs run
χ^2 / ndf 1.723e−24 / 87
p0 87.01 ± 0.06495
87.6
87.4
87.2
87
86.8
86.6
86.4
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull1D
Entries 88
Mean −1.399e−13
Std Dev 9.123e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

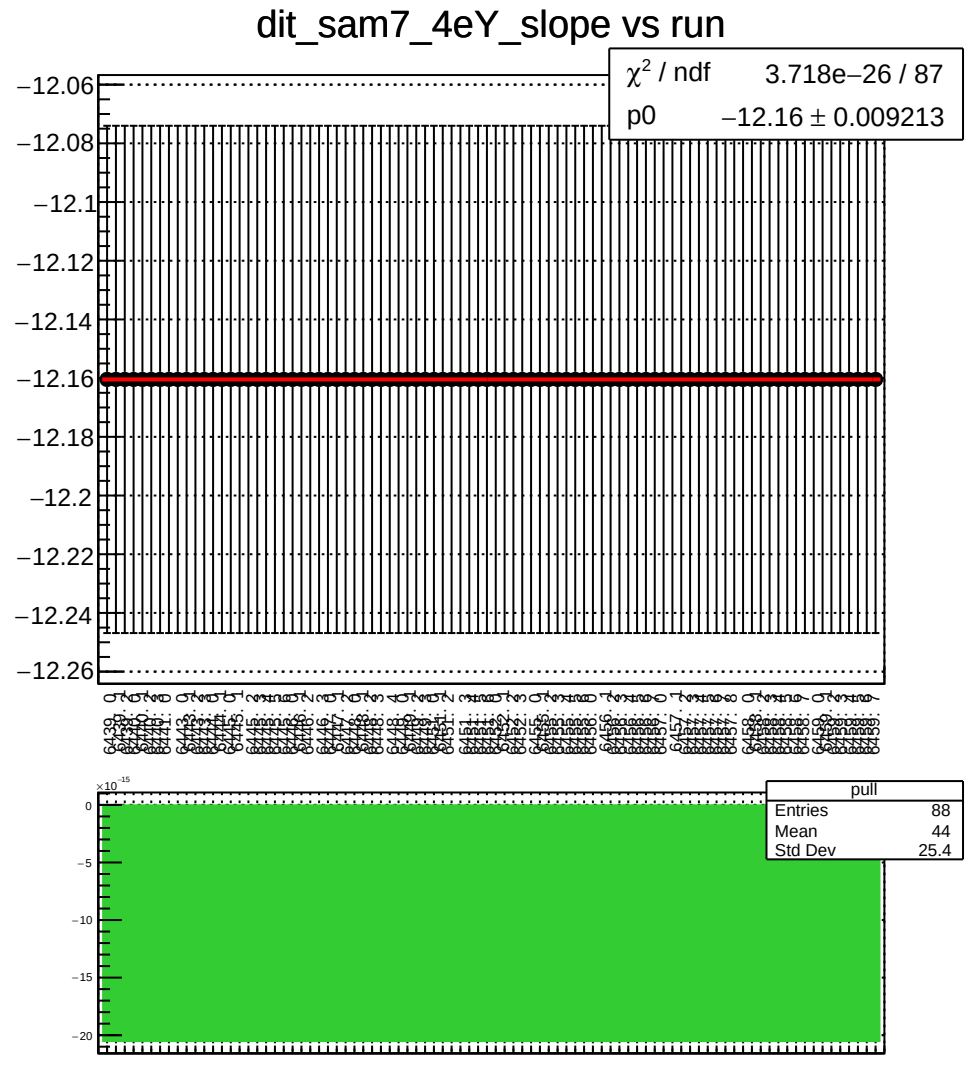

dit_sam7_4aX_slope vs run
χ² / ndf 2.939e−26 / 87
p0 40.97 ± 0.08289
41.8
41.6
41.4
41.2
41
40.8
40.6
40.4
40.2
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull1D
Entries 88
Mean −1.828e−14
Std Dev7.923e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

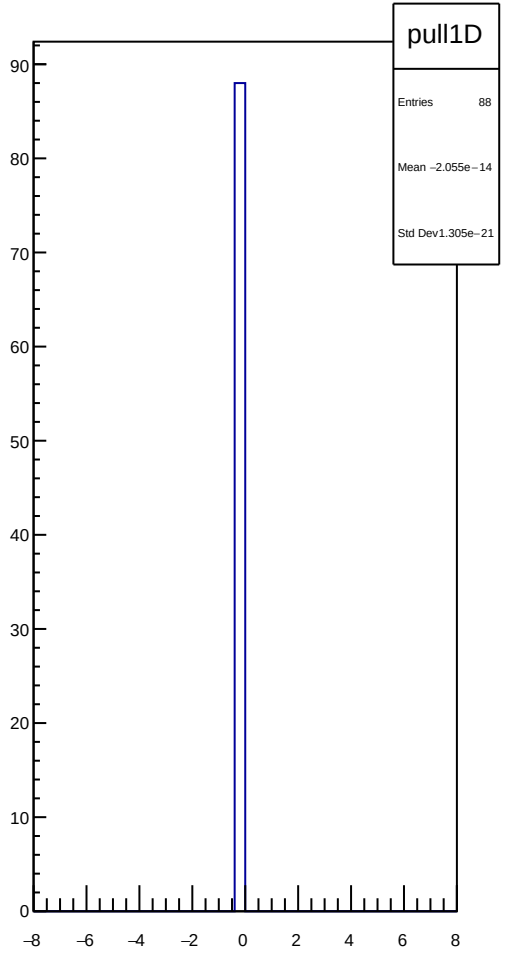

dit_sam7_4eX_slope vs run
χ² / ndf 3.402e−26 / 87
p0 −83.28 ± 0.07705
−82.6
−82.8
−83
−83.2
−83.4
−83.6
−83.8
−84
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0
−5
−10
−15
−20
pull1D
Entries 88
Mean −1.966e−14
Std Dev1.235e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

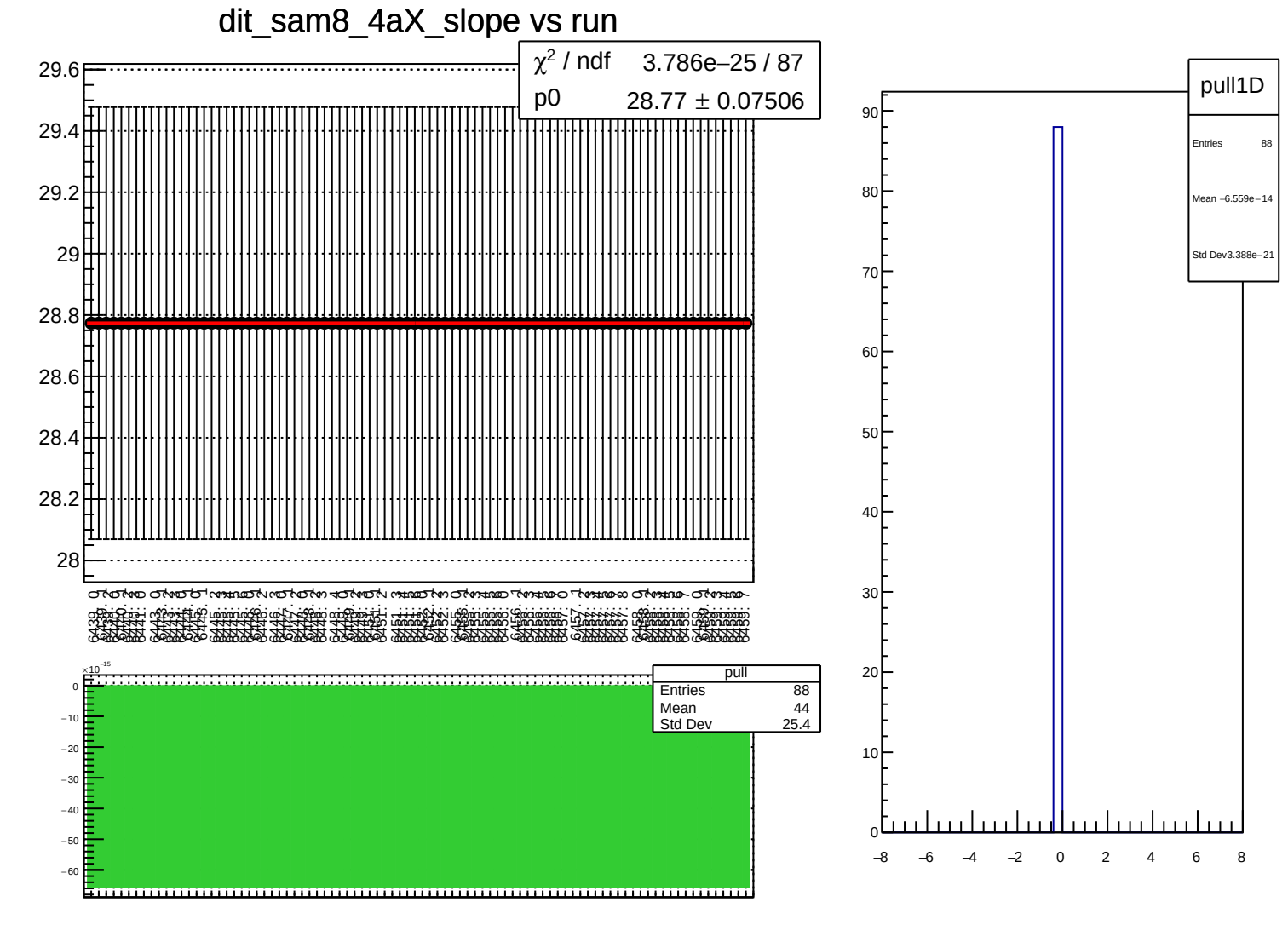

dit_sam7_11X12X_slope vs run
χ² / ndf 5.992e−28 / 87
p0 0.3646 ± 0.002268
0.39
0.38
0.37
0.36
0.35
0.34
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
2.5
2
1.5
1
0.5
0

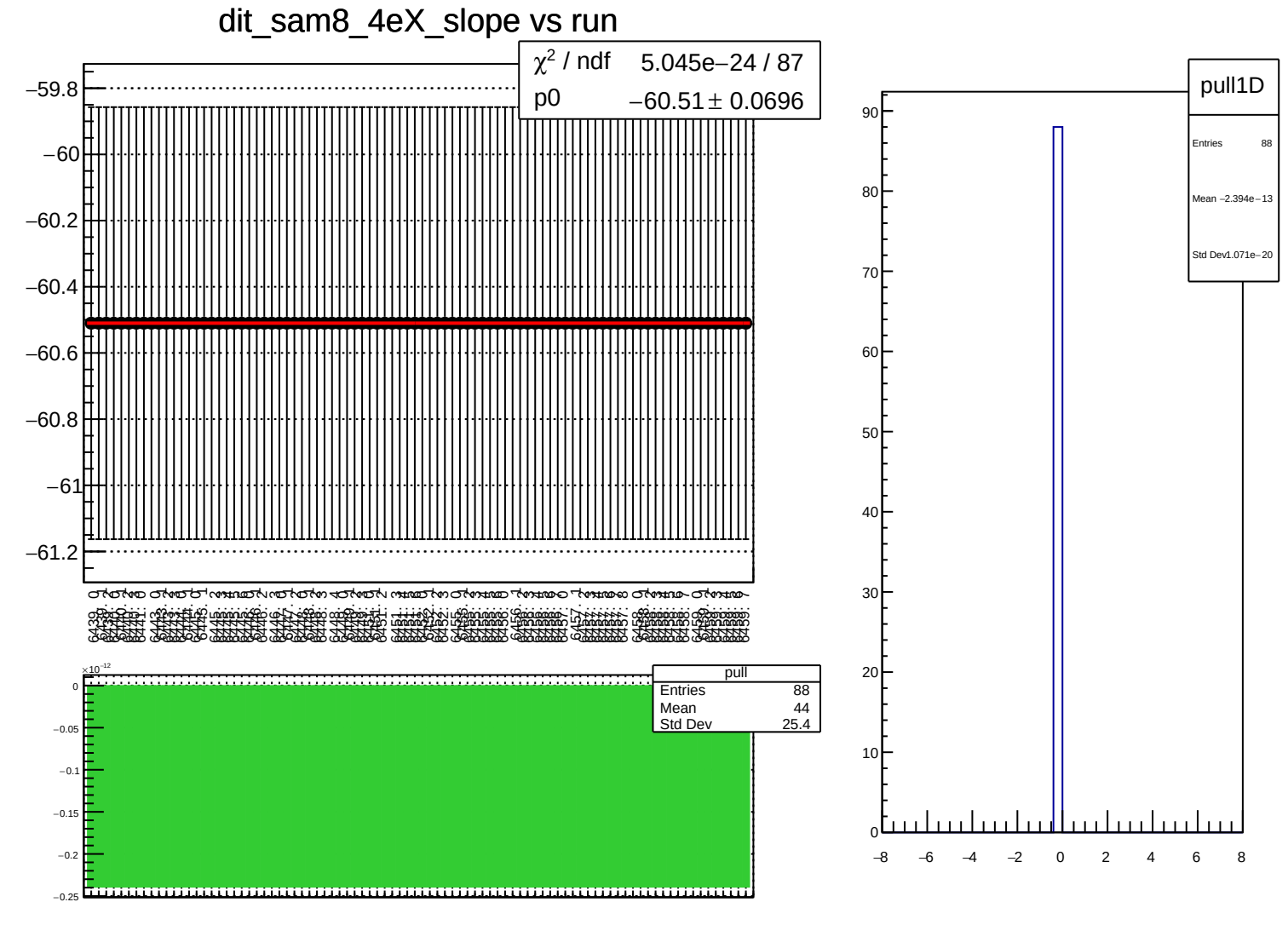

pull1D
Entries 88
Mean 2.609e−15
Std Dev 3.743e−23
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

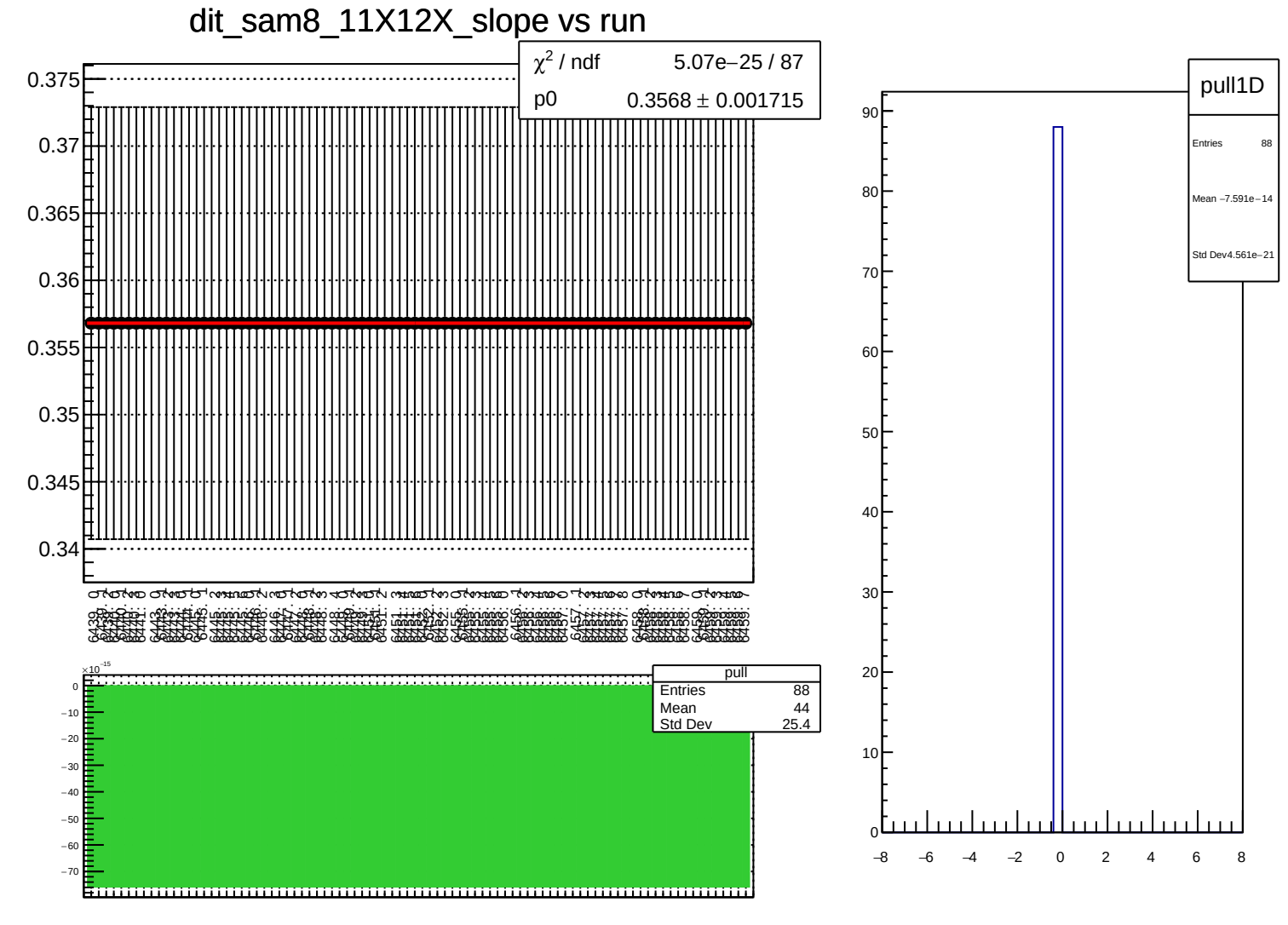

dit_sam7_4aY_slope vs run
χ² / ndf 5.556e−24 / 87
p0 6.191± 0.007159
6.26
6.24
6.22
6.2
6.18
6.16
6.14
6.12
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull1D
Entries 88
Mean −2.513e−13
Std Dev1.886e−20
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

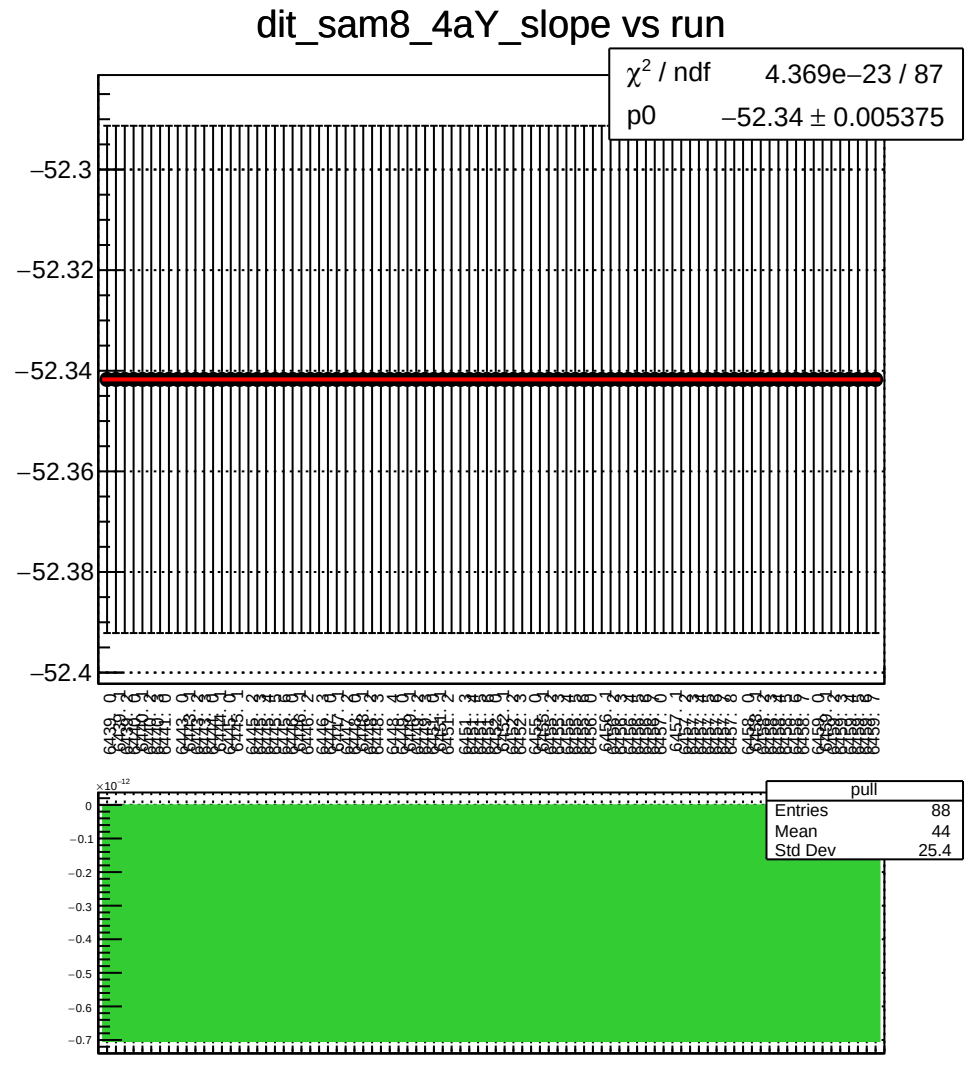

dit_sam7_4eY_slope vs run
χ² / ndf 3.718e−26 / 87
p0 −12.16 ± 0.009213
−12.06
−12.08
−12.1
−12.12
−12.14
−12.16
−12.18
−12.2
−12.22
−12.24
−12.26
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0
−5
−10
−15
−20

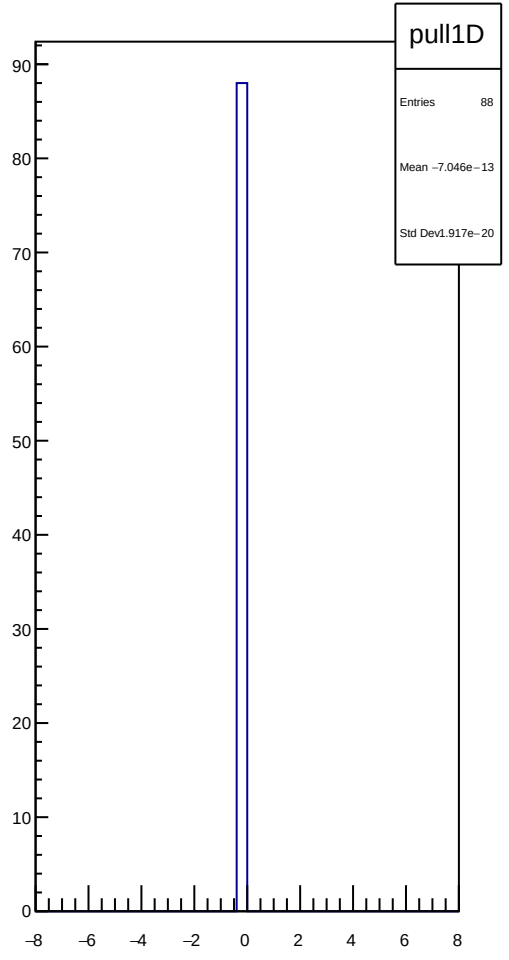

pull1D
Entries 88
Mean −2.055e−14
Std Dev1.305e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_4aX_slope vs run
χ² / ndf 3.786e−25 / 87
p0 28.77 ± 0.07506
29.6
29.4
29.2
29
28.8
28.6
28.4
28.2
28
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 88
Mean −6.559e−14
Std Dev3.388e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_4eX_slope vs run
χ² / ndf 5.045e−24 / 87
p0 −60.51 ± 0.0696
−59.8
−60
−60.2
−60.4
−60.6
−60.8
−61
−61.2
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull1D
Entries 88
Mean −2.394e−13
Std Dev1.071e−20
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_11X12X_slope vs run
χ² / ndf 5.07e−25 / 87
p0 0.3568 ± 0.001715
0.375
0.37
0.365
0.36
0.355
0.35
0.345
0.34
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 88
Mean −7.591e−14
Std Dev4.561e−21
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_4aY_slope vs run
χ² / ndf 4.369e−23 / 87
p0 −52.34 ± 0.005375
−52.3
−52.32
−52.34
−52.36
−52.38
−52.4
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7


pull1D
Entries 88
Mean −7.046e−13
Std Dev1.917e−20
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
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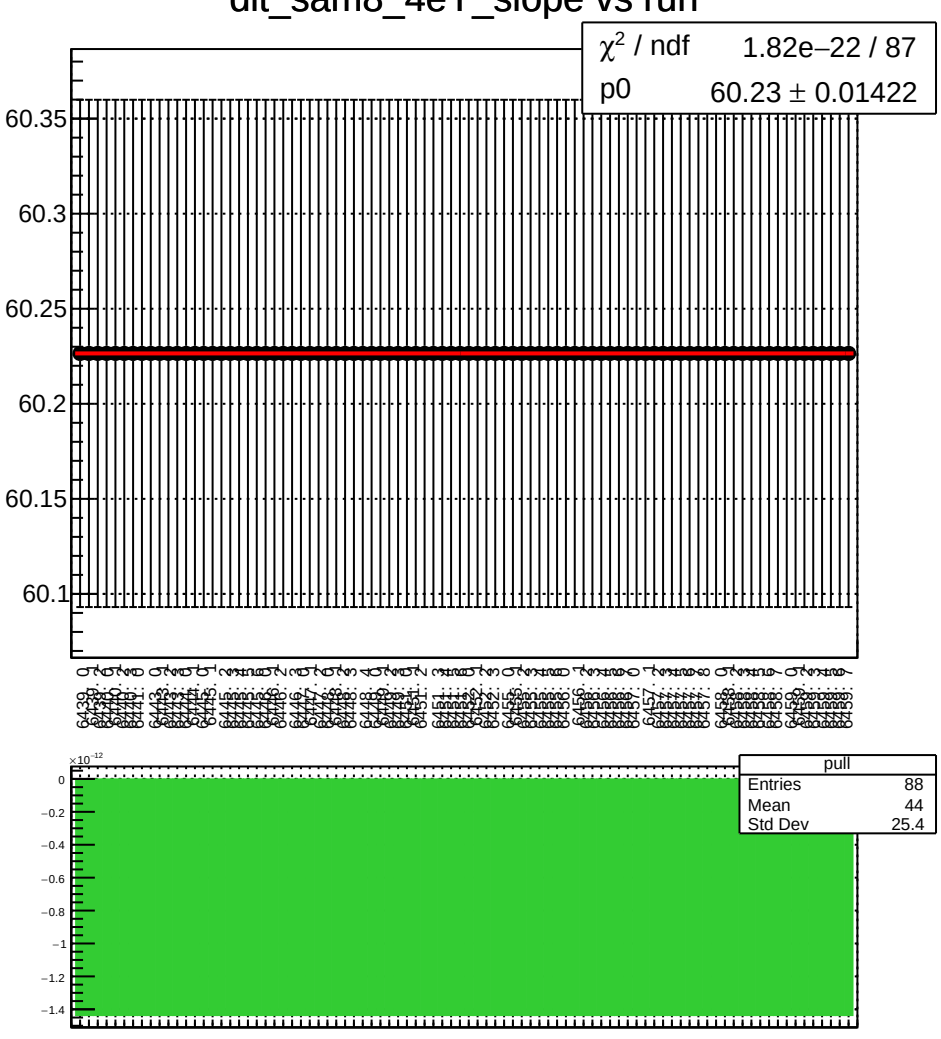
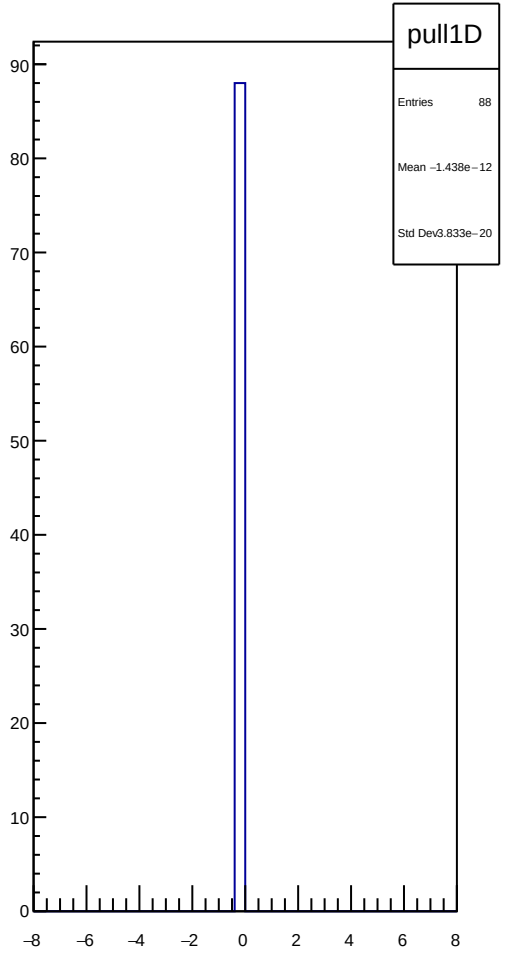
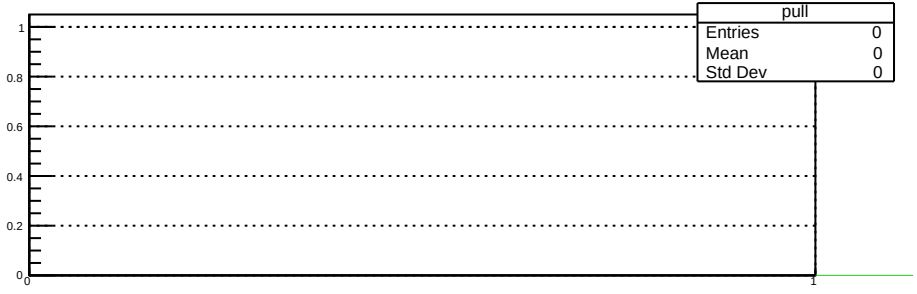
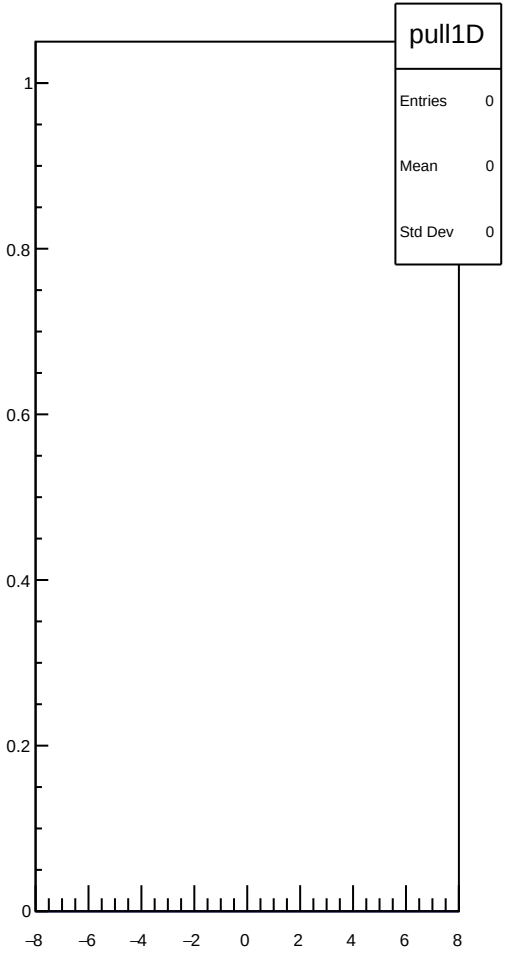
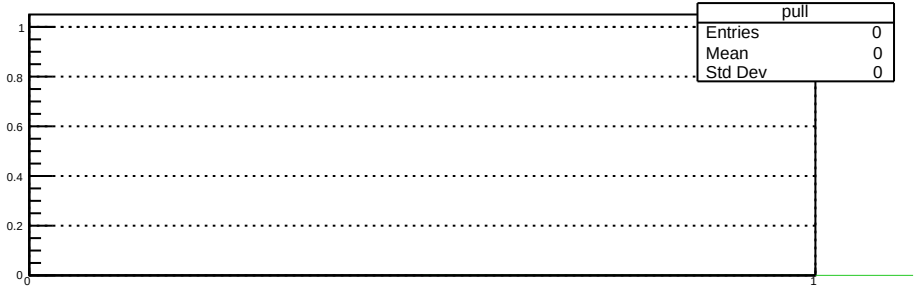
0
2
4
6
8

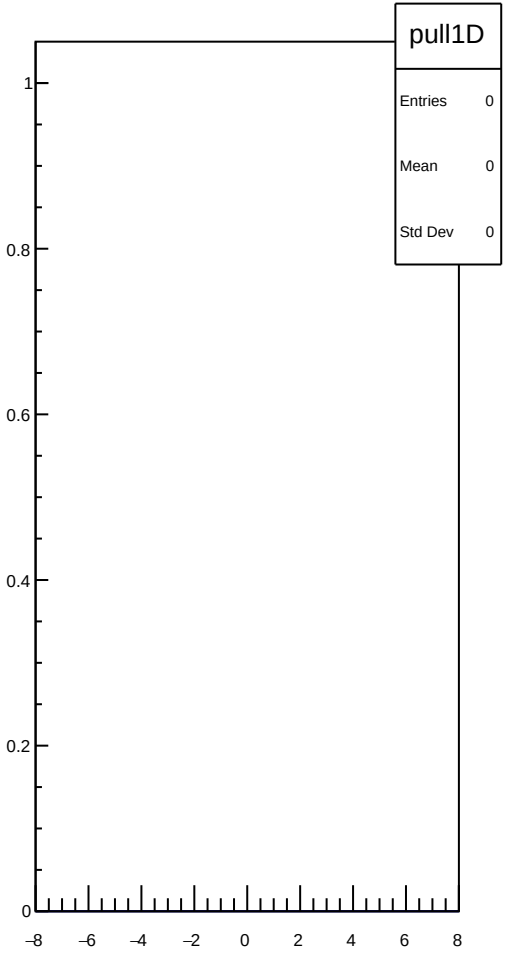

dit_sam8_4eY_slope vs run
χ^2 / ndf 1.82e−22 / 87
p0 60.23 ± 0.01422
60.35
60.3
60.25
60.2
60.15
60.1
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹²
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4


pull1D
Entries 88
Mean −1.438e−12
Std Dev 3.833e−20
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


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


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


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


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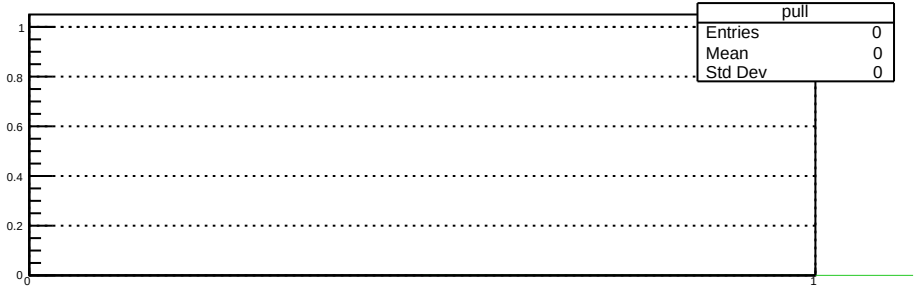
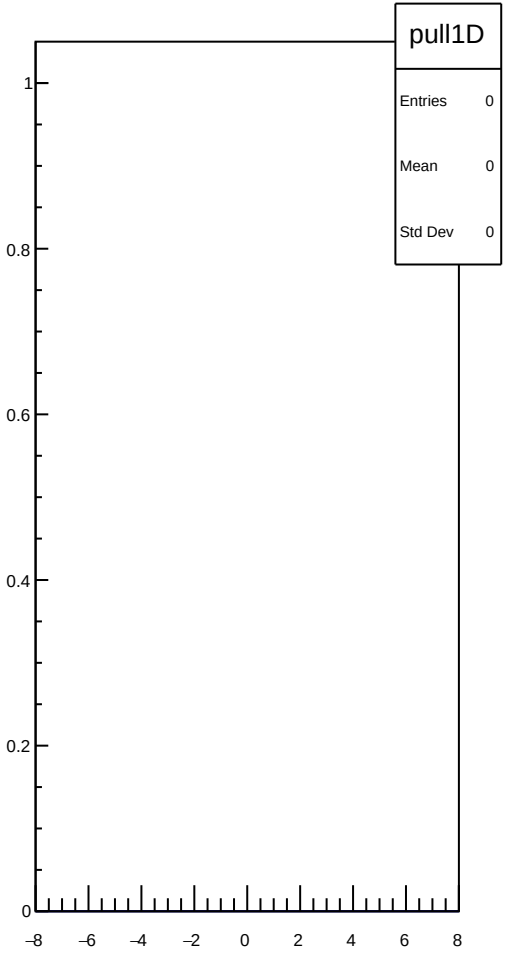
2
4
6
8


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


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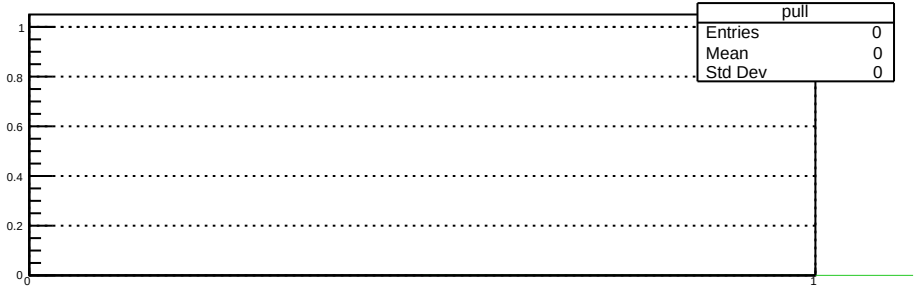
0
2
4
6
8


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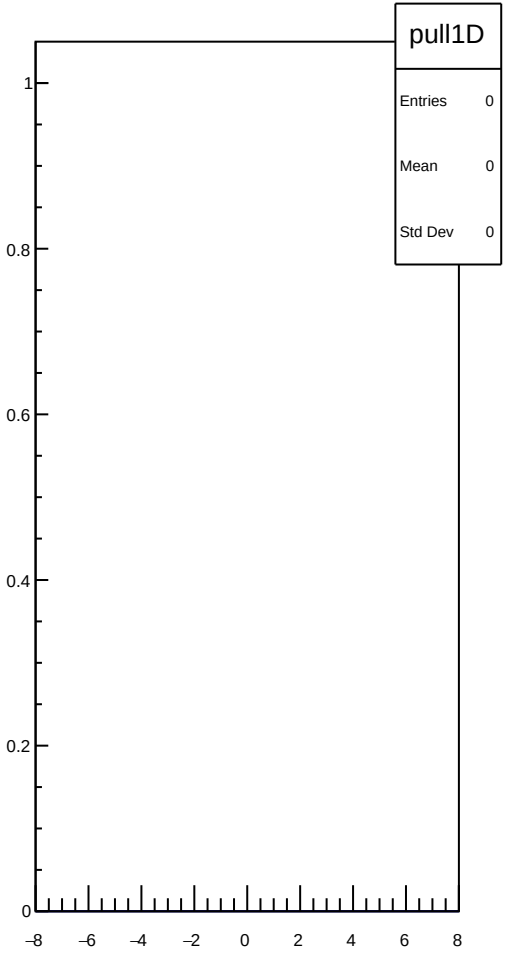
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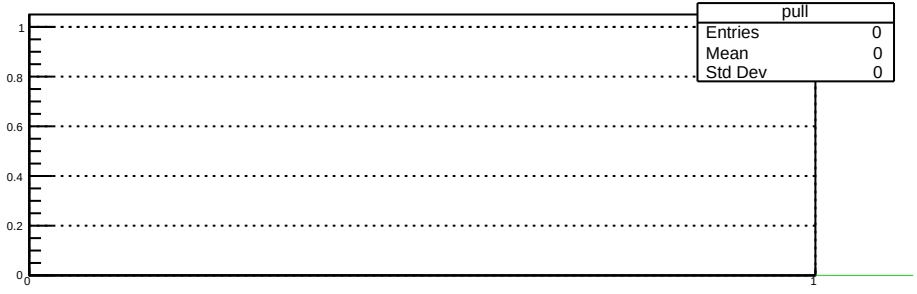
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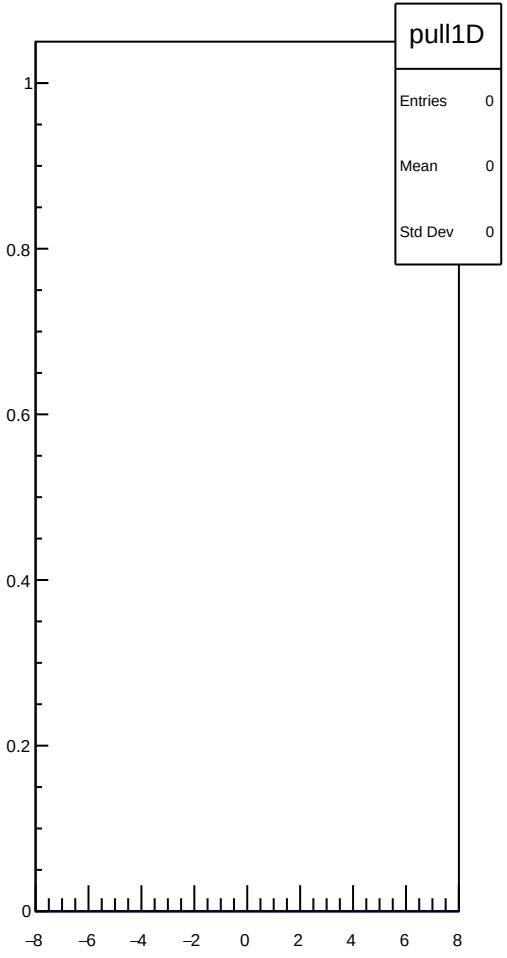
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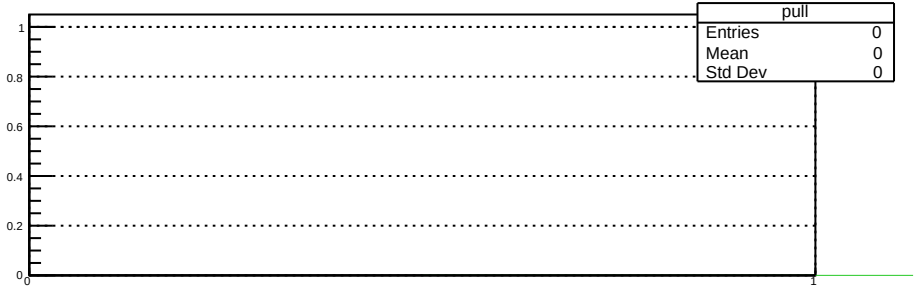
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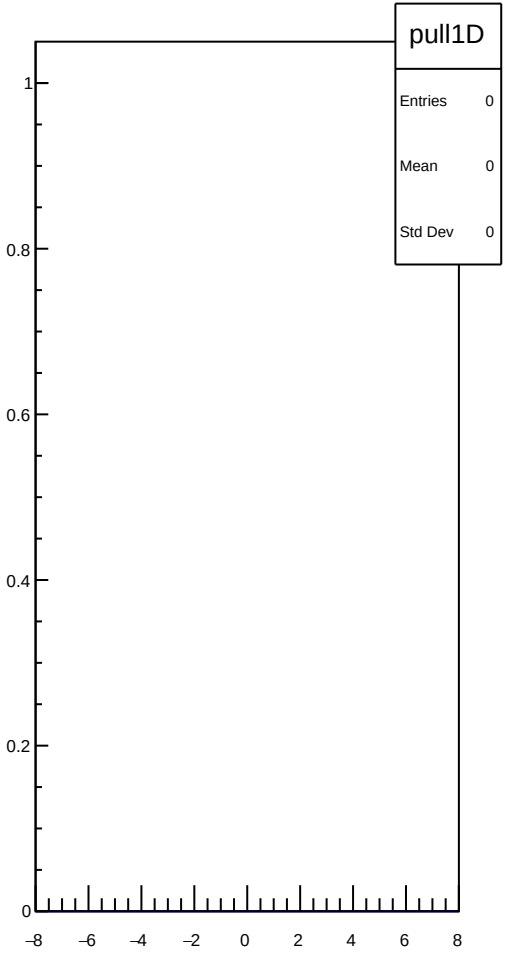
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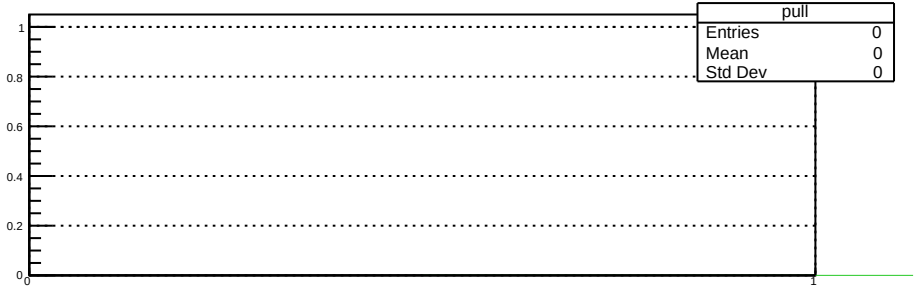
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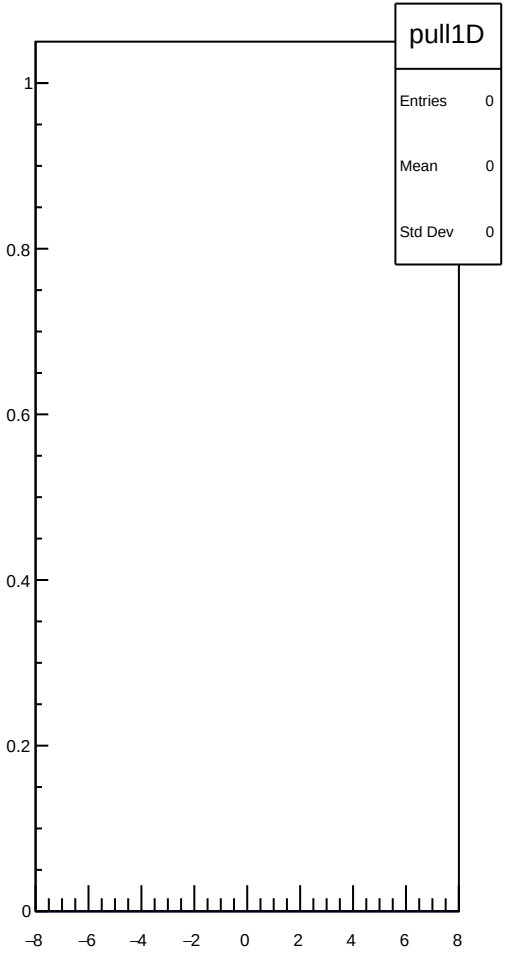
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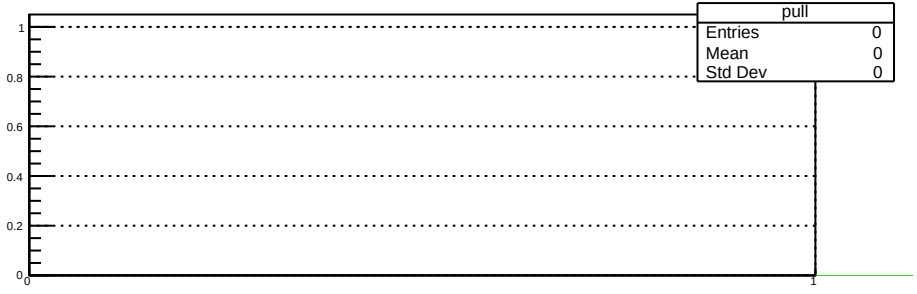
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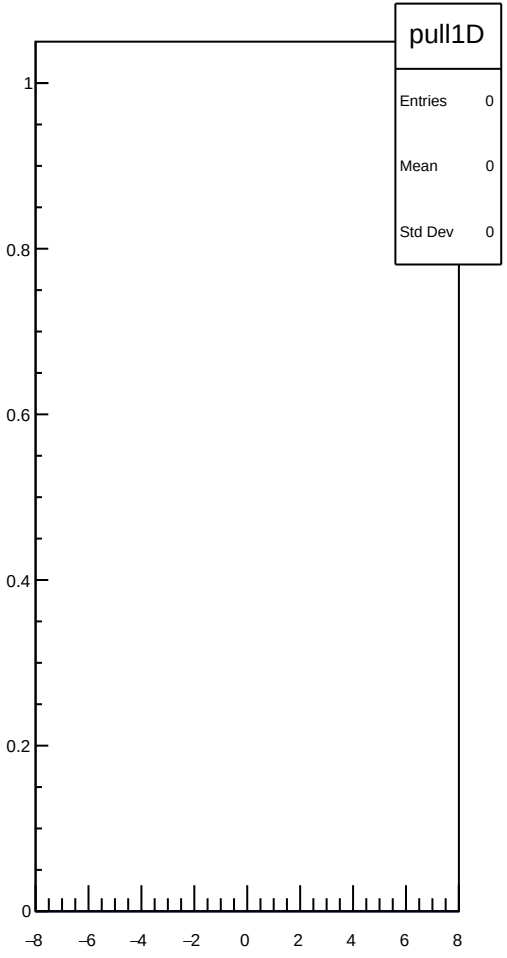
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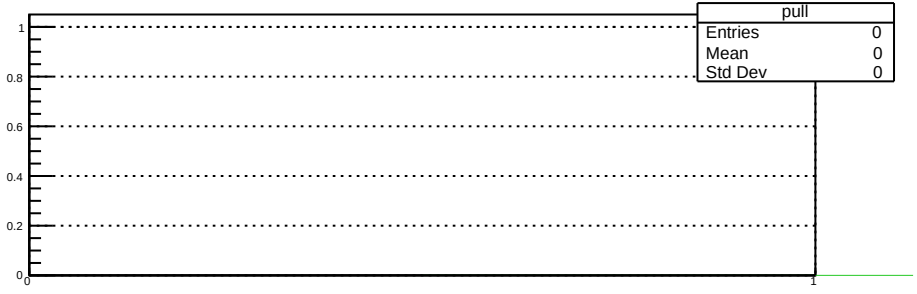
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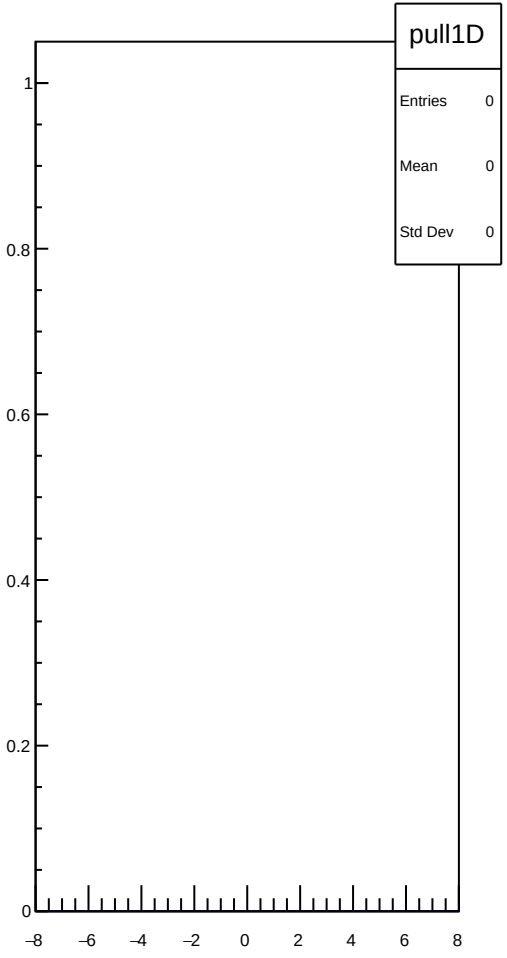
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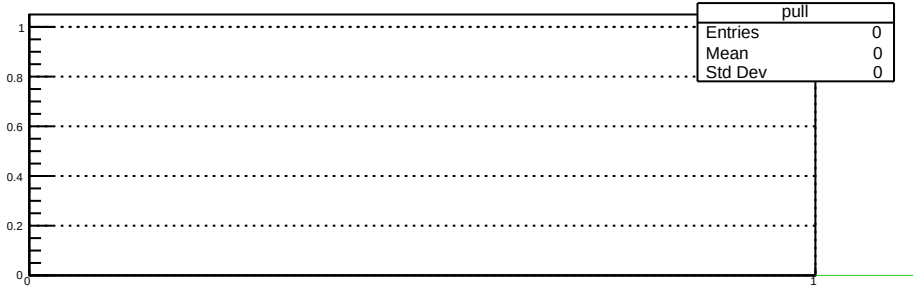
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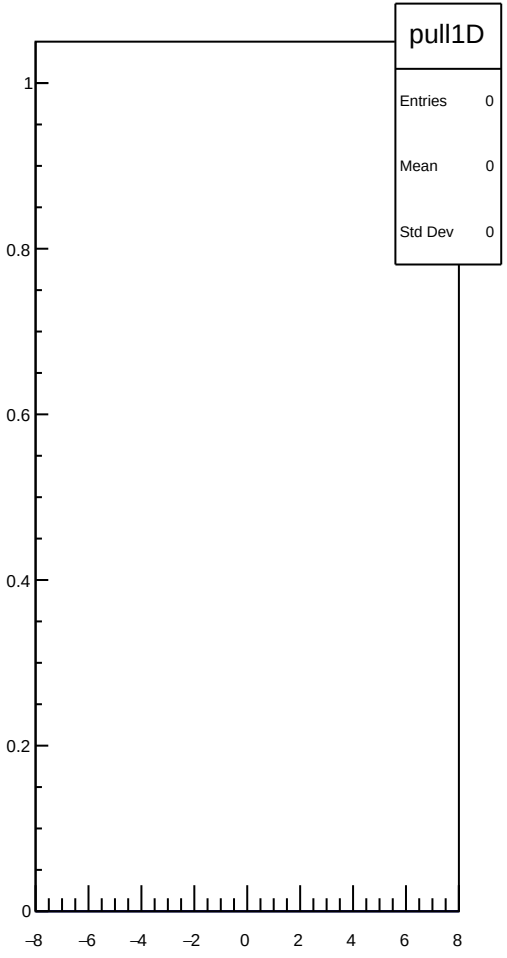
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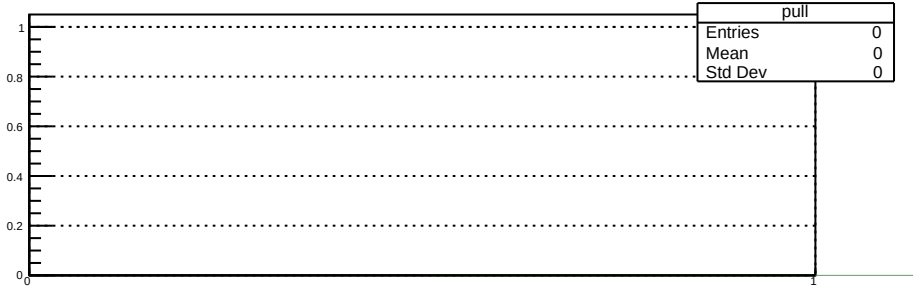
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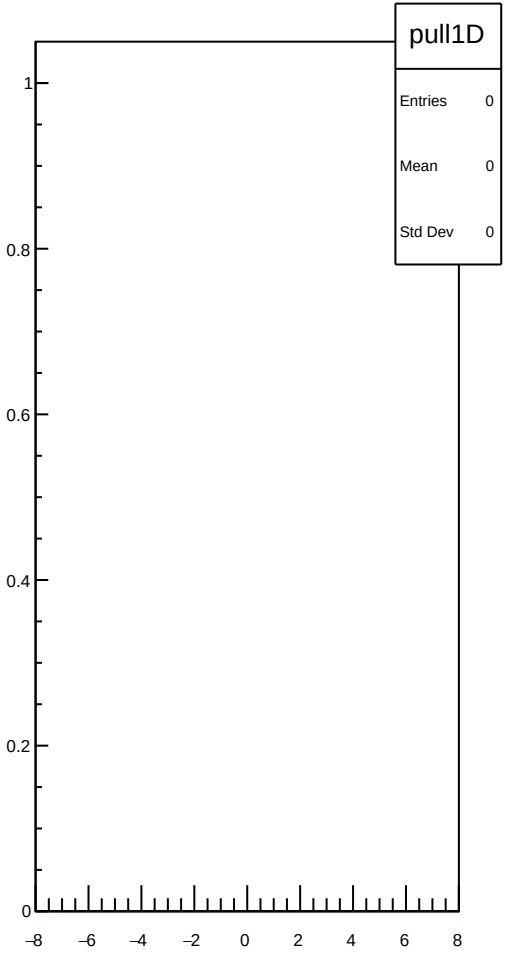
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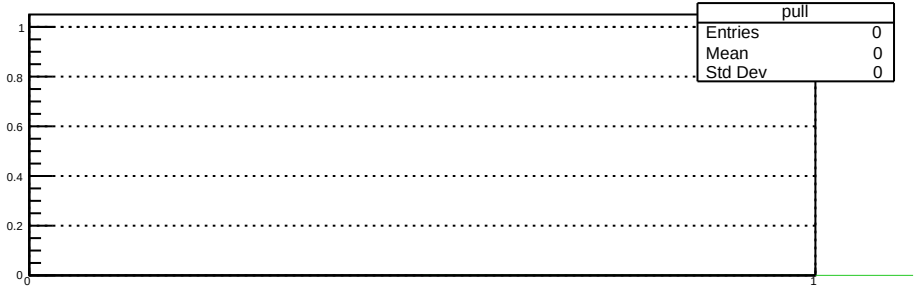
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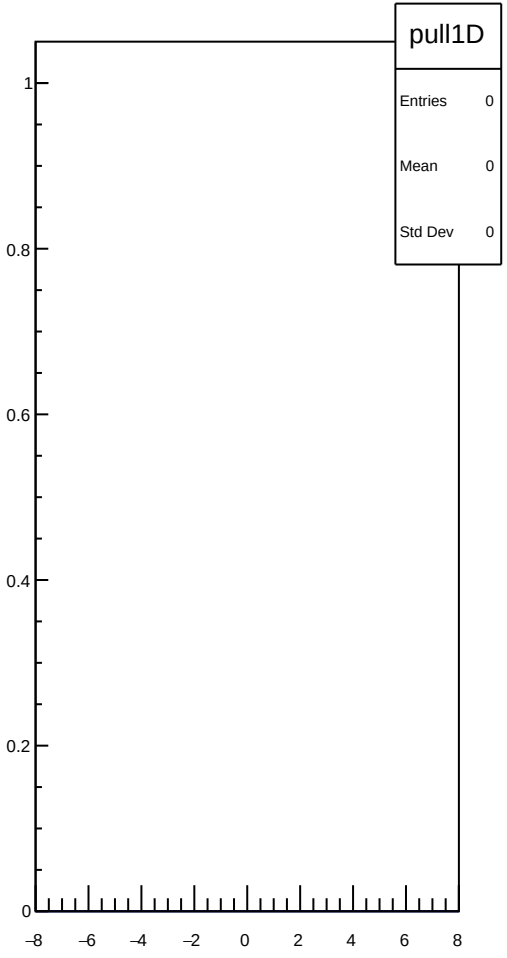
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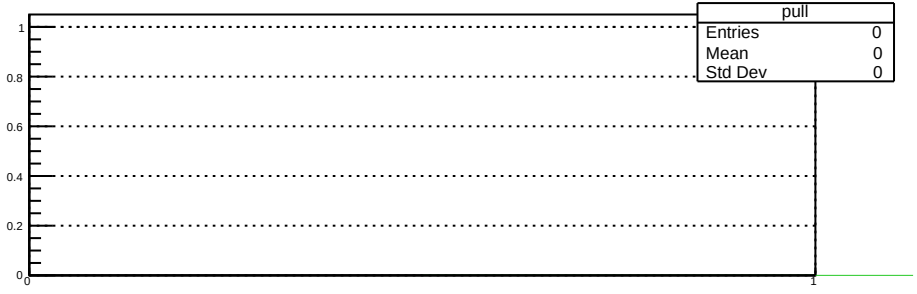
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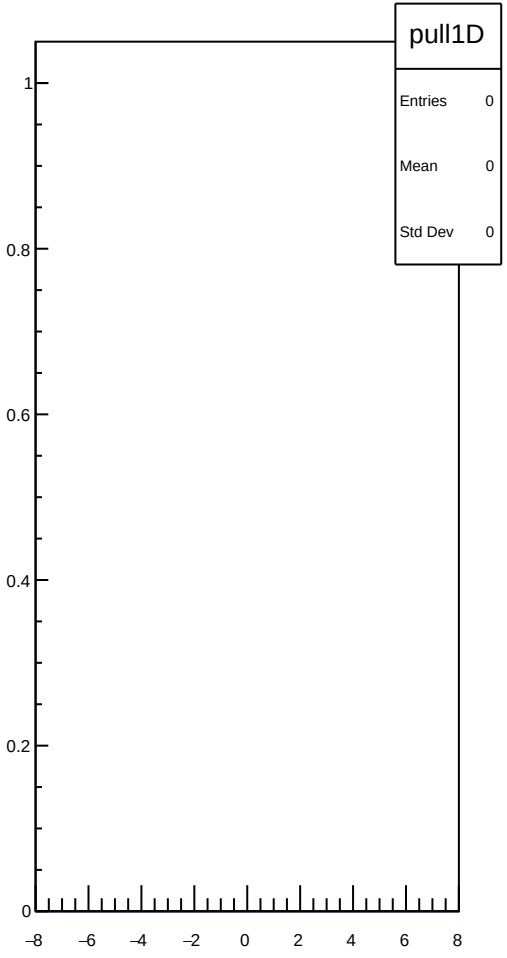
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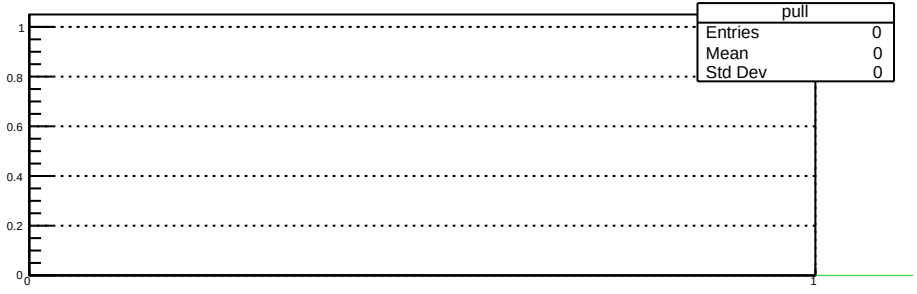
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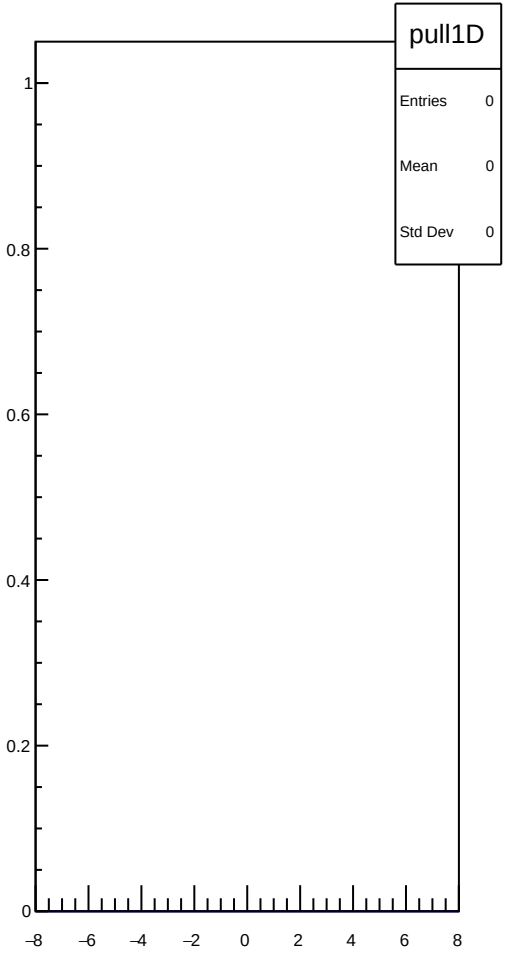
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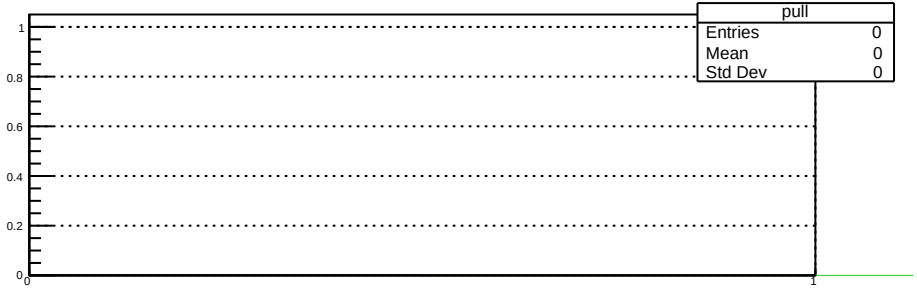
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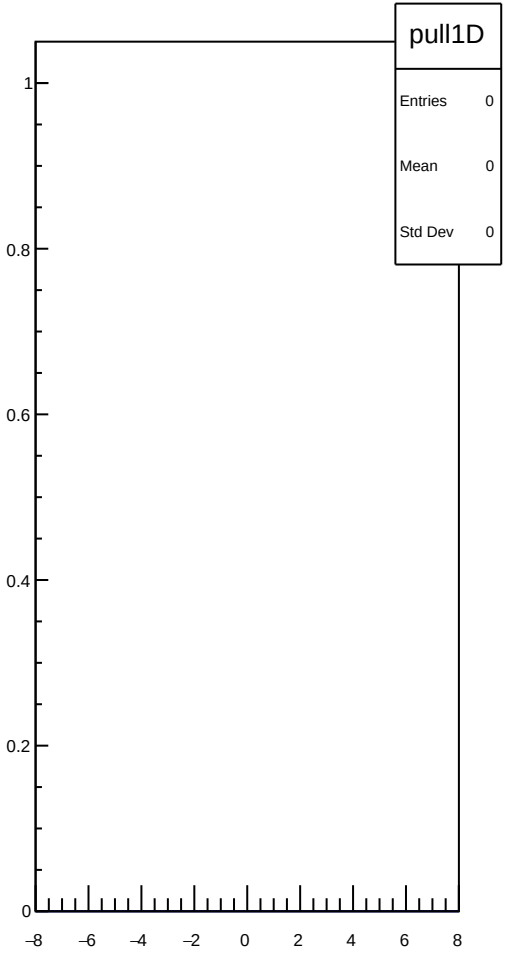
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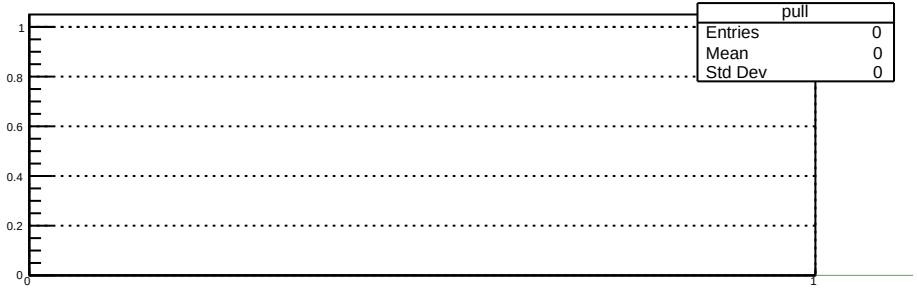
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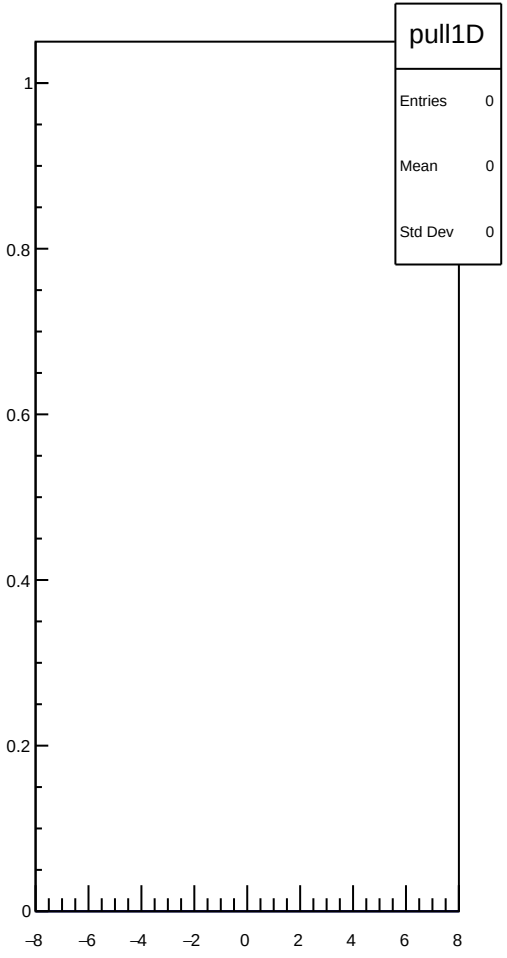
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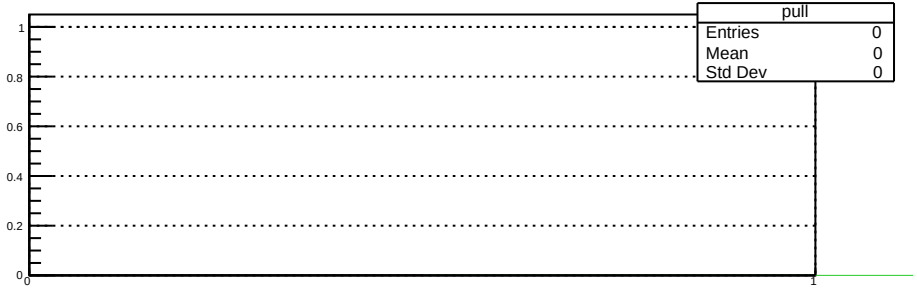
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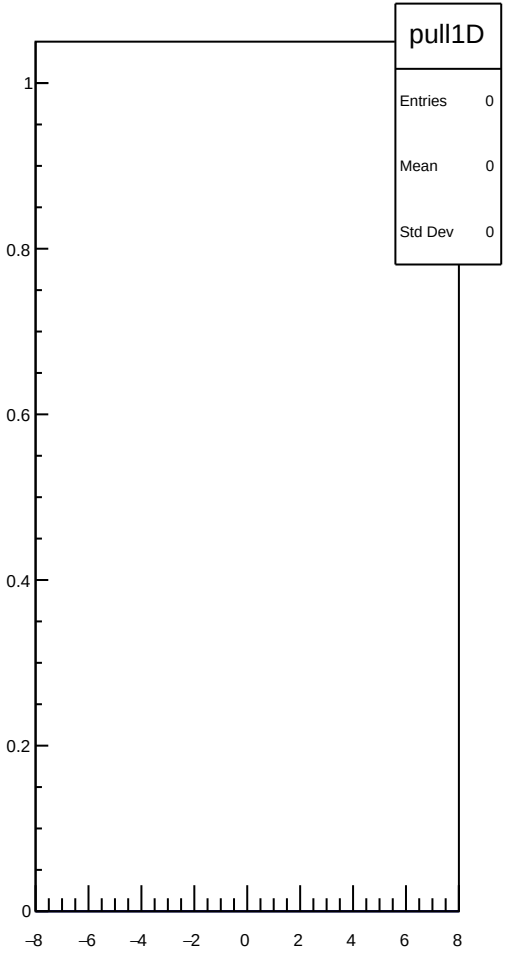
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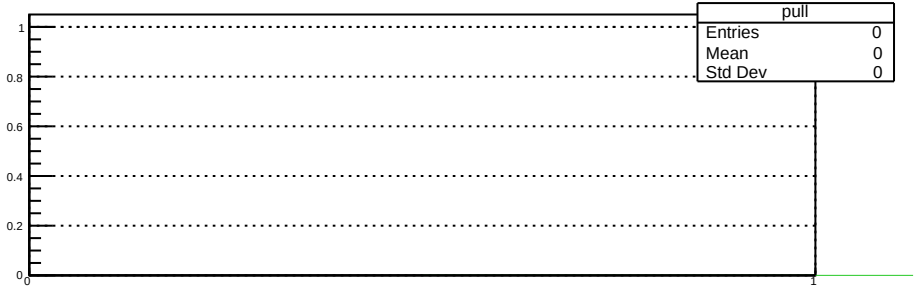
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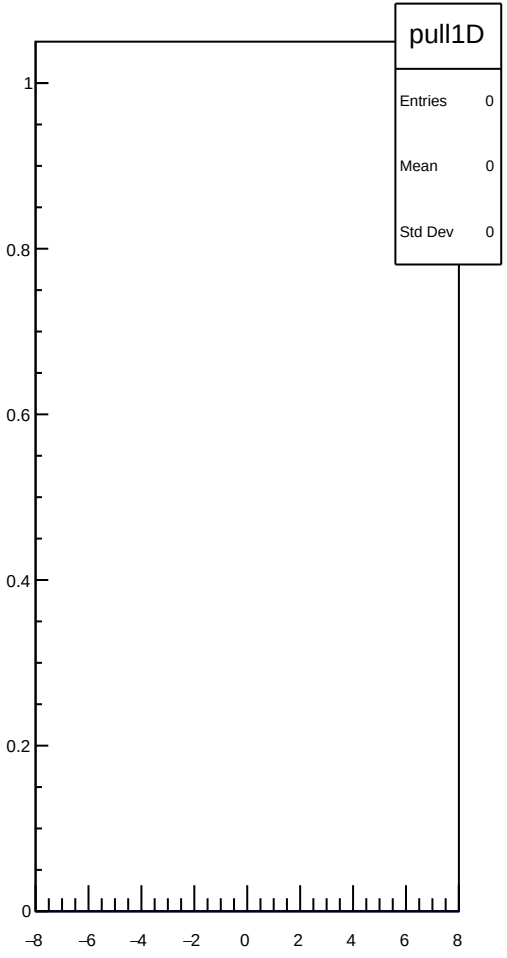
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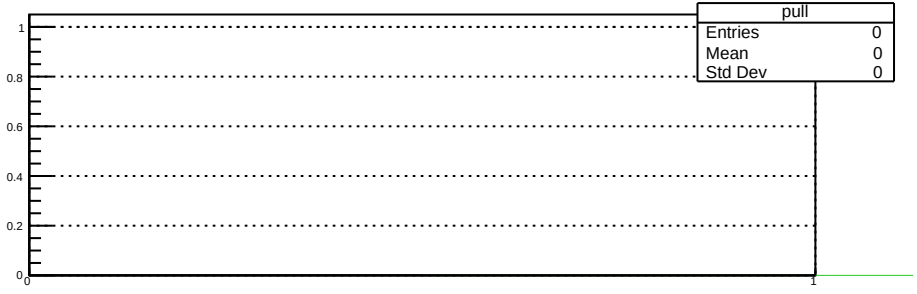
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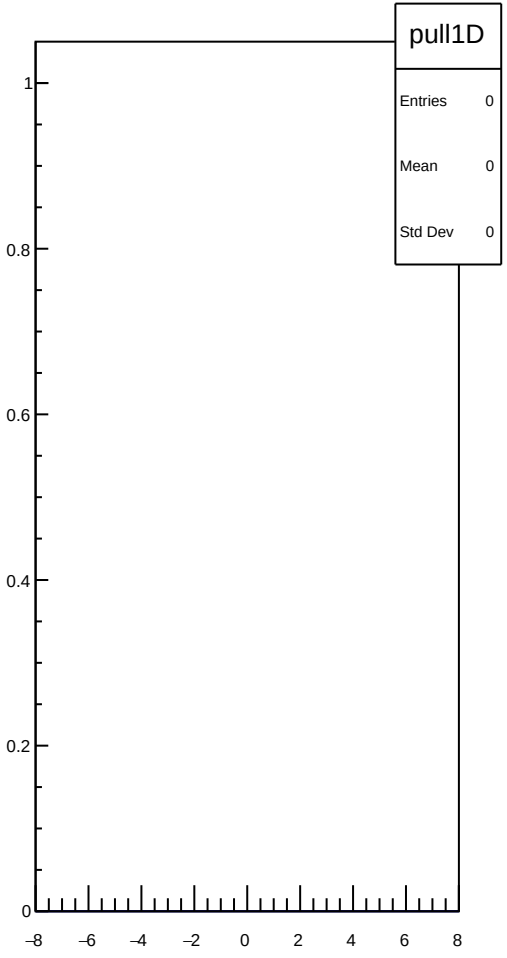
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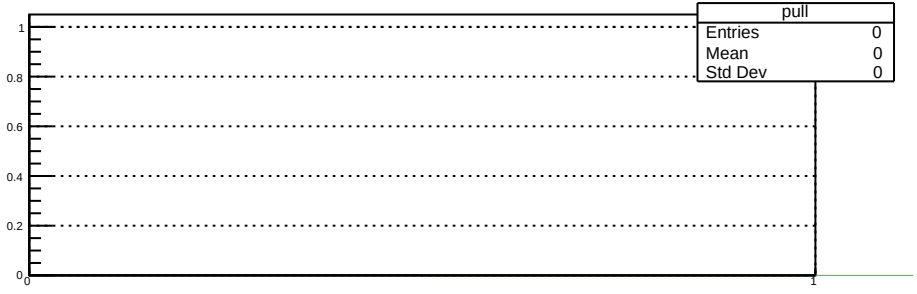
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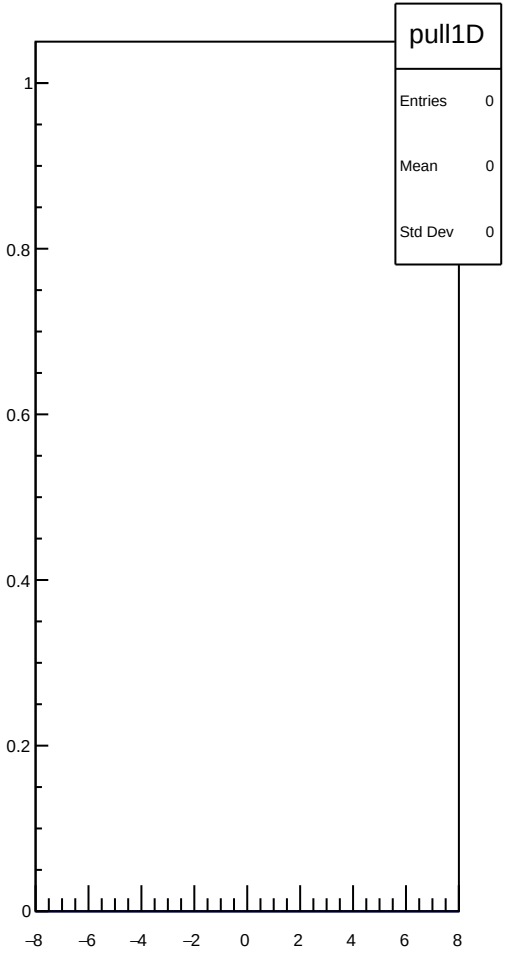
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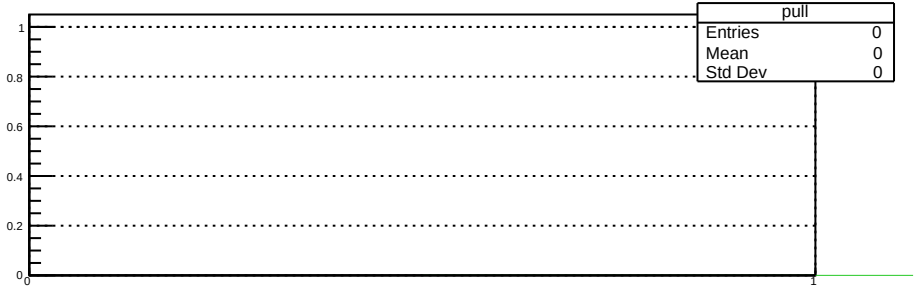
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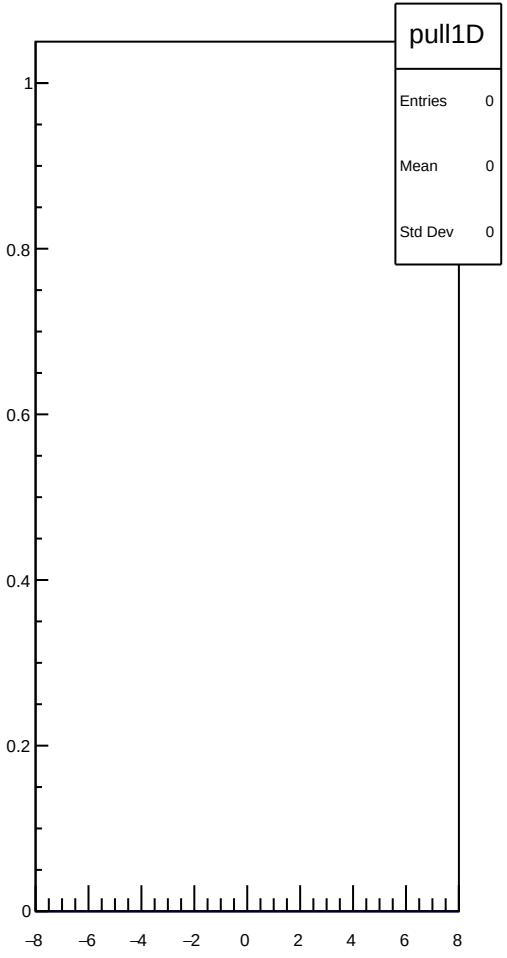
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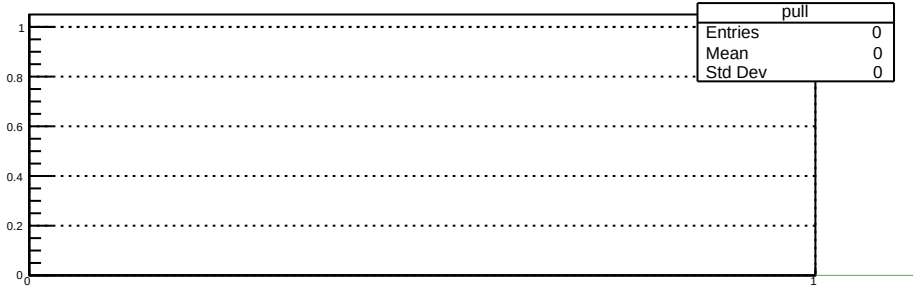
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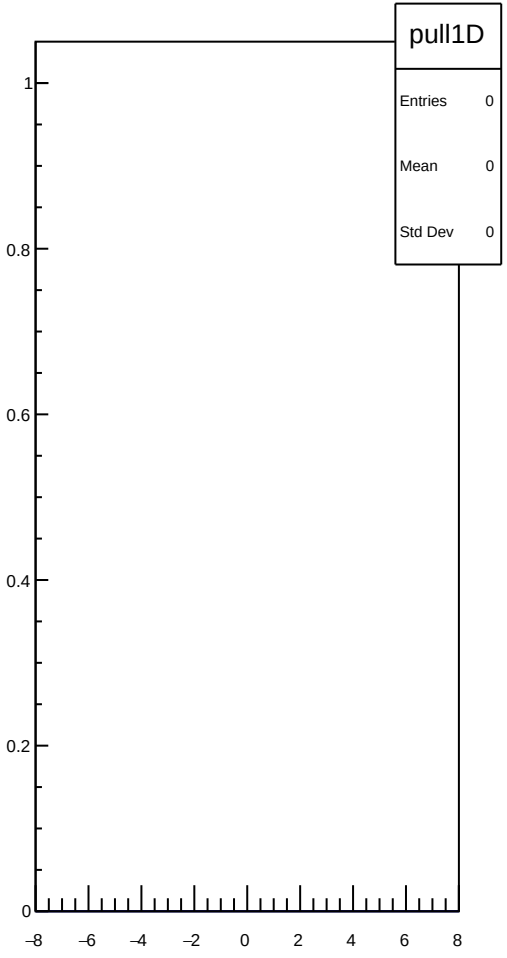
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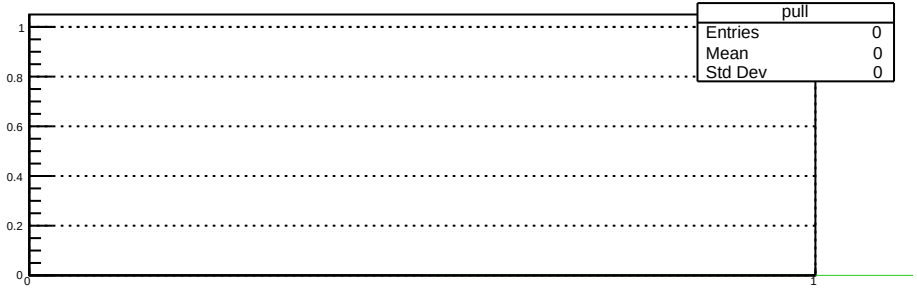
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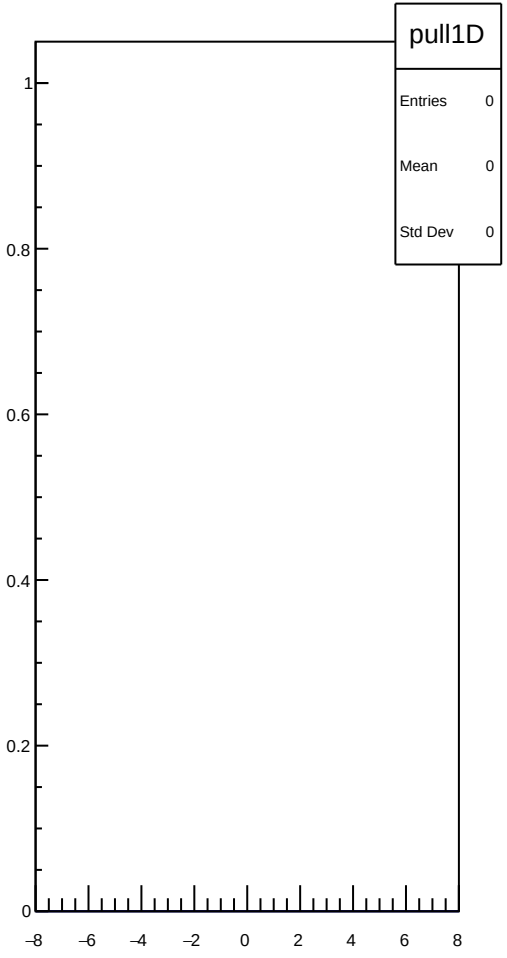
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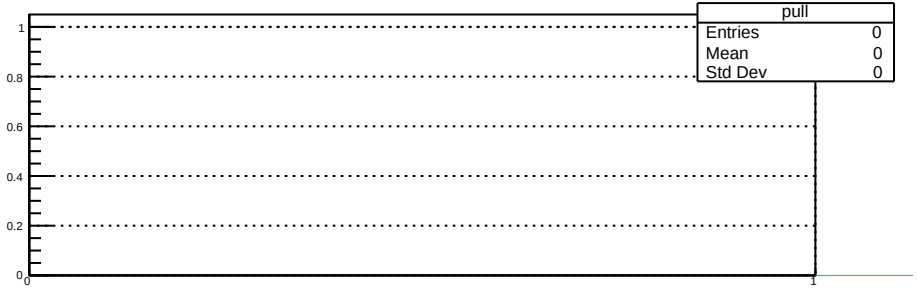
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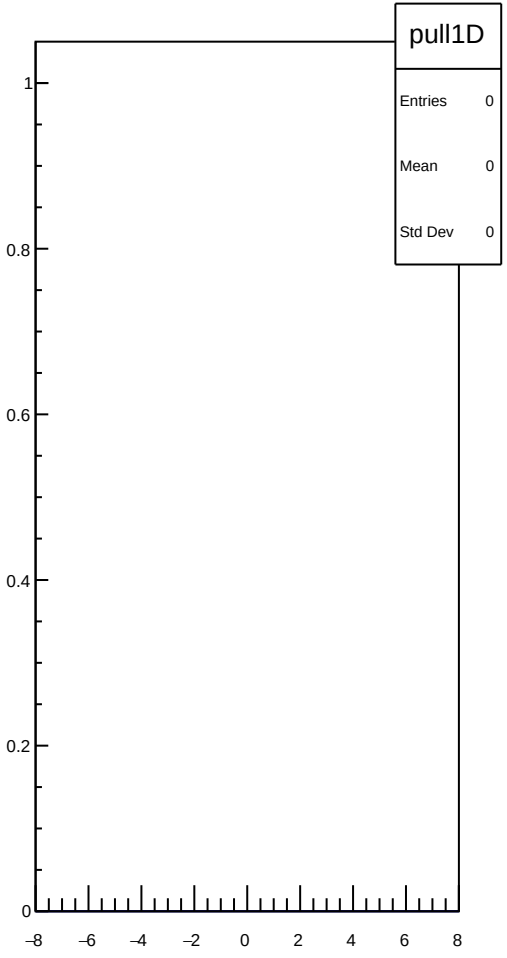
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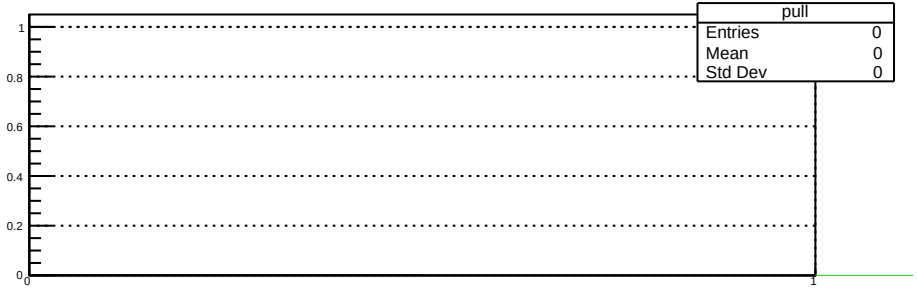
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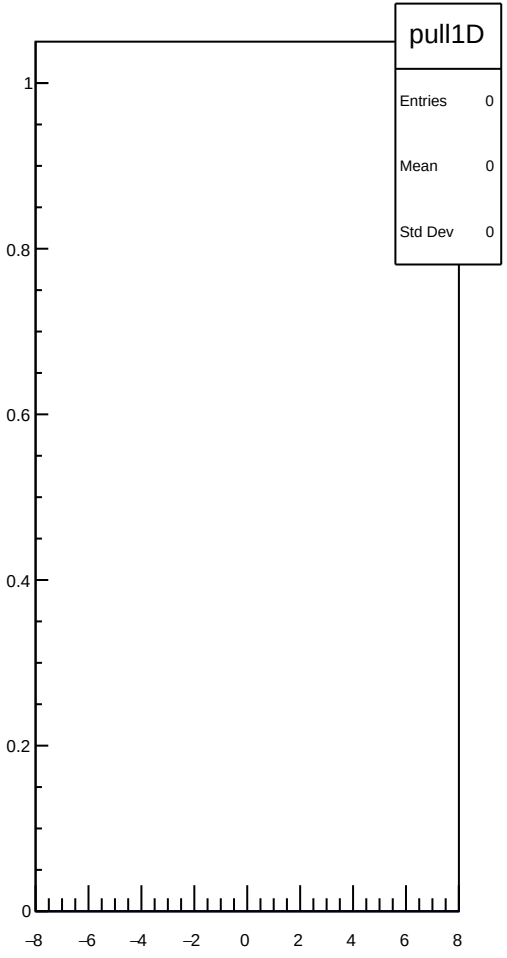
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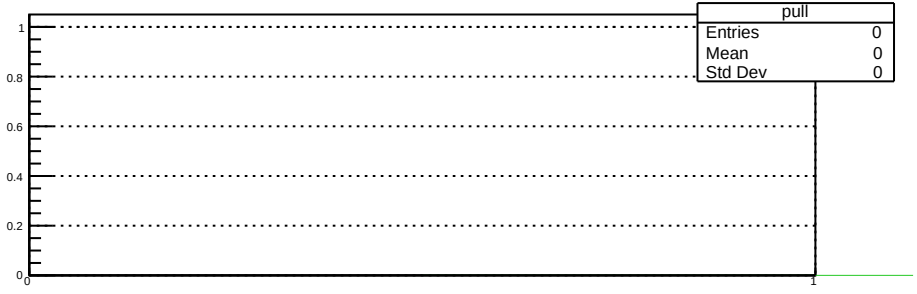
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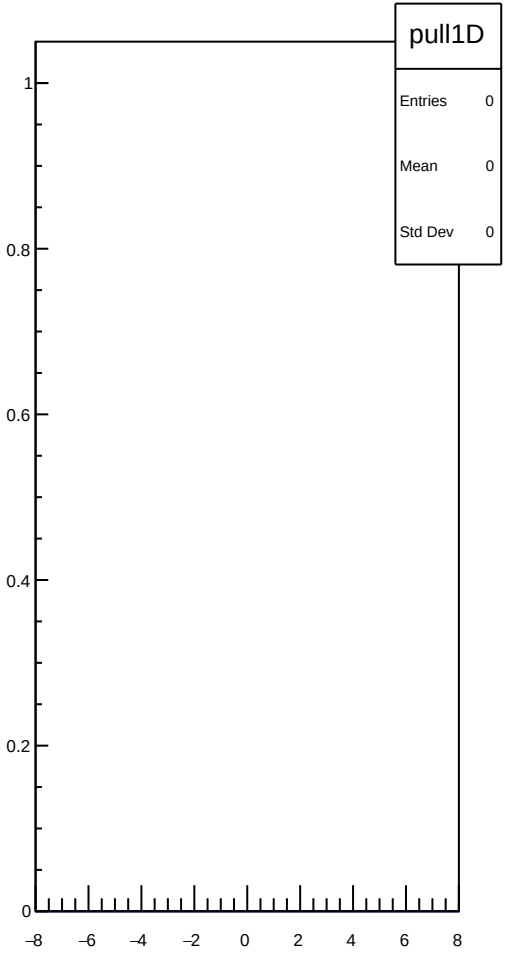
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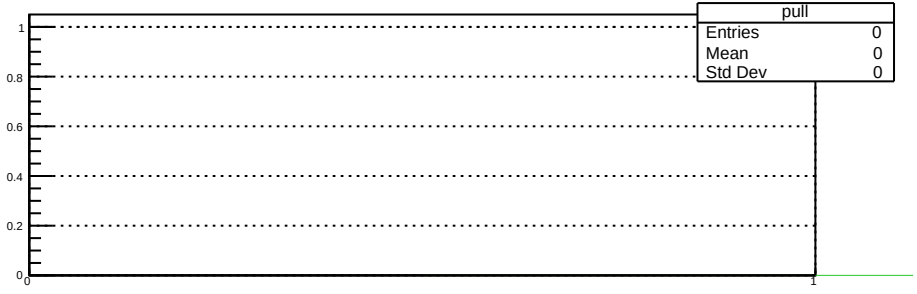
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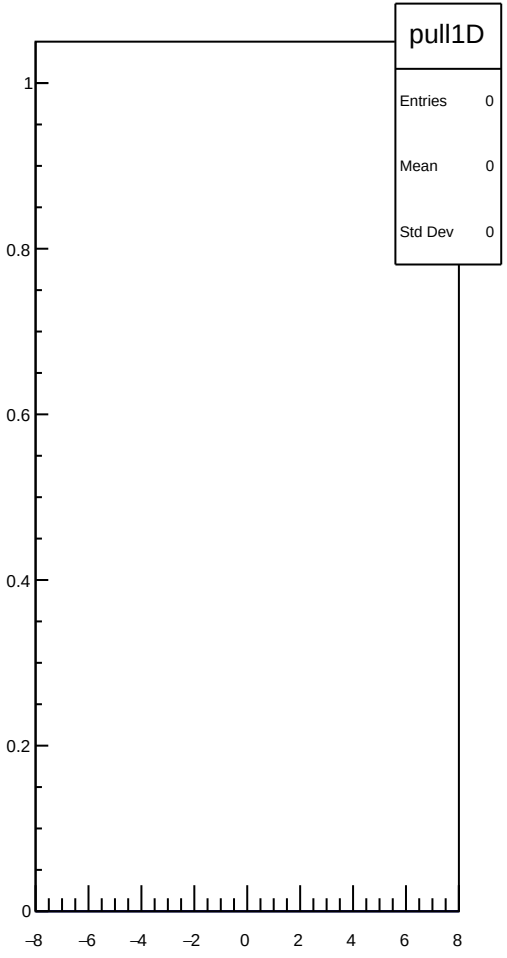
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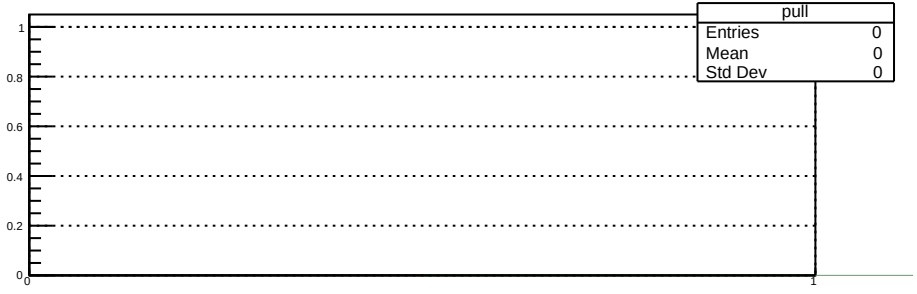
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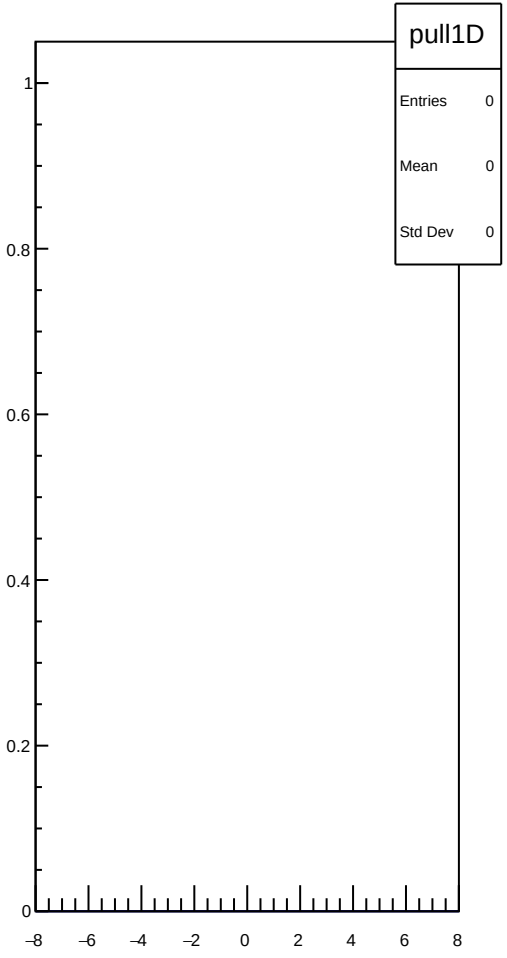
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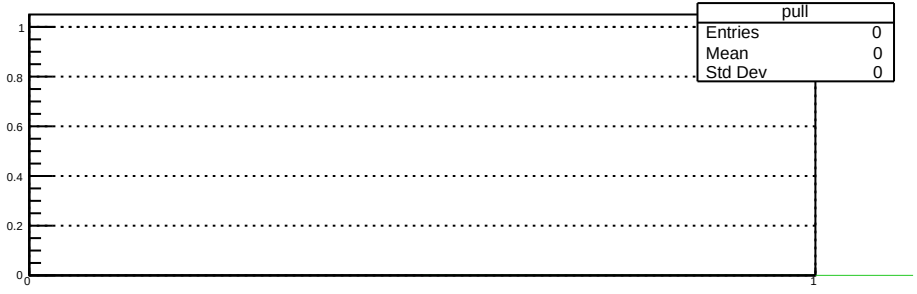
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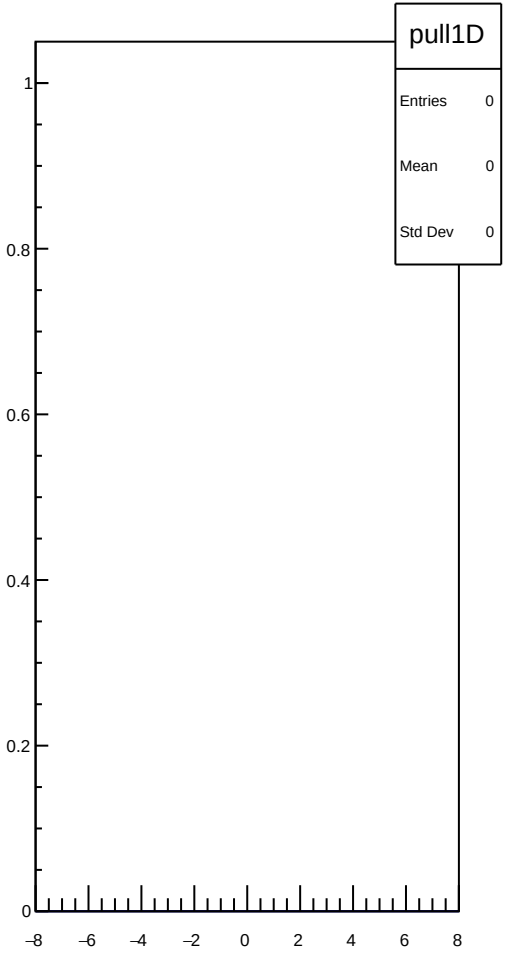
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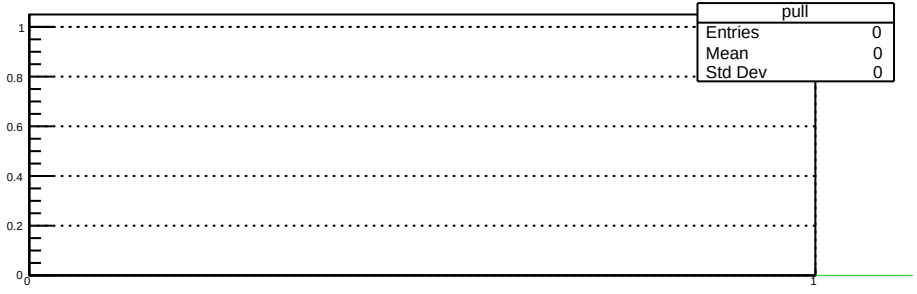
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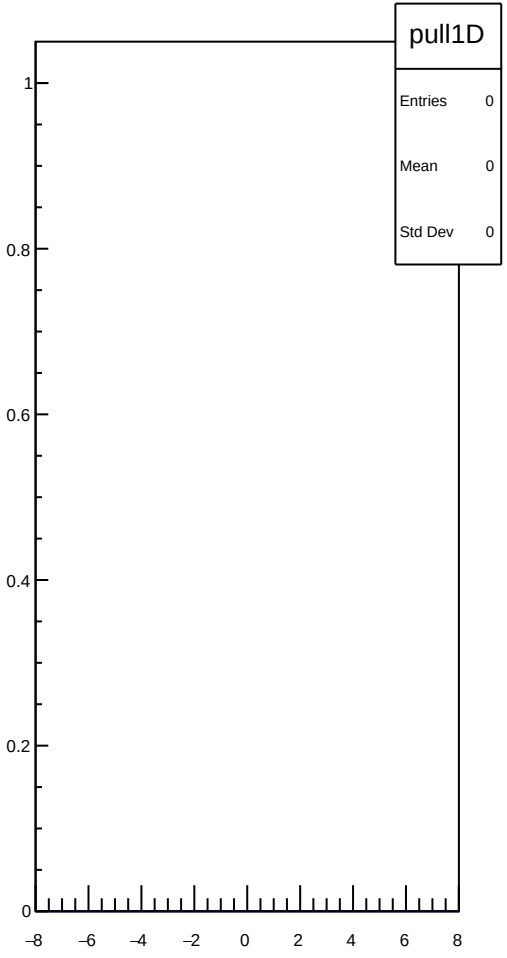
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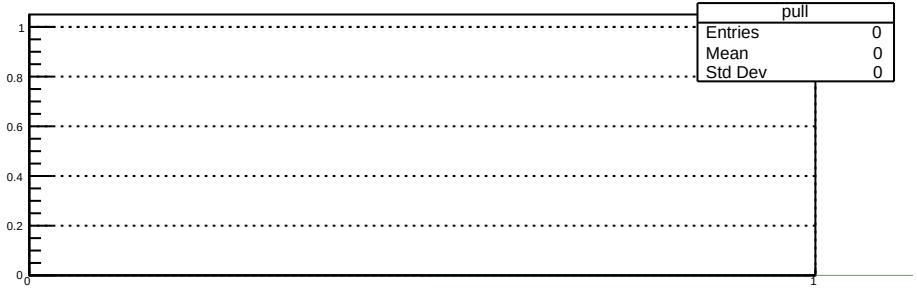
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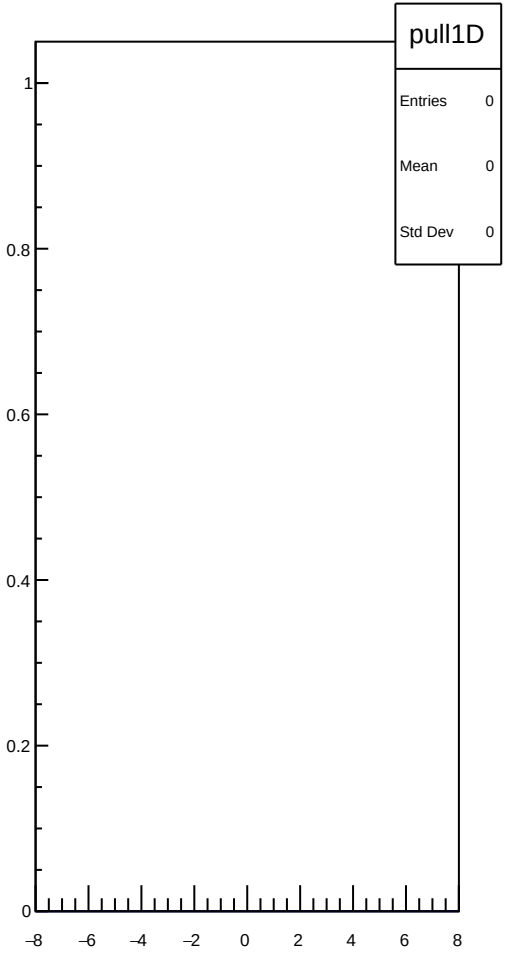
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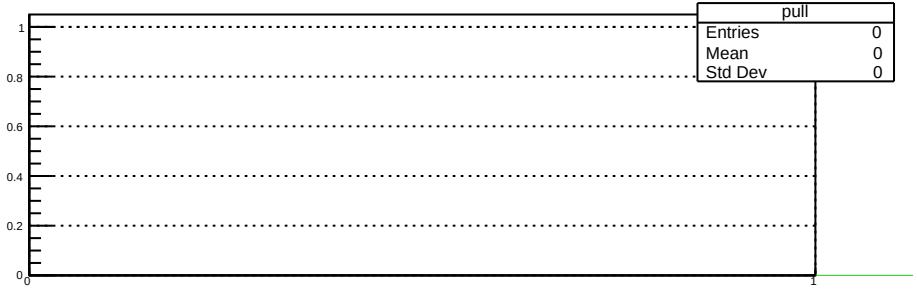
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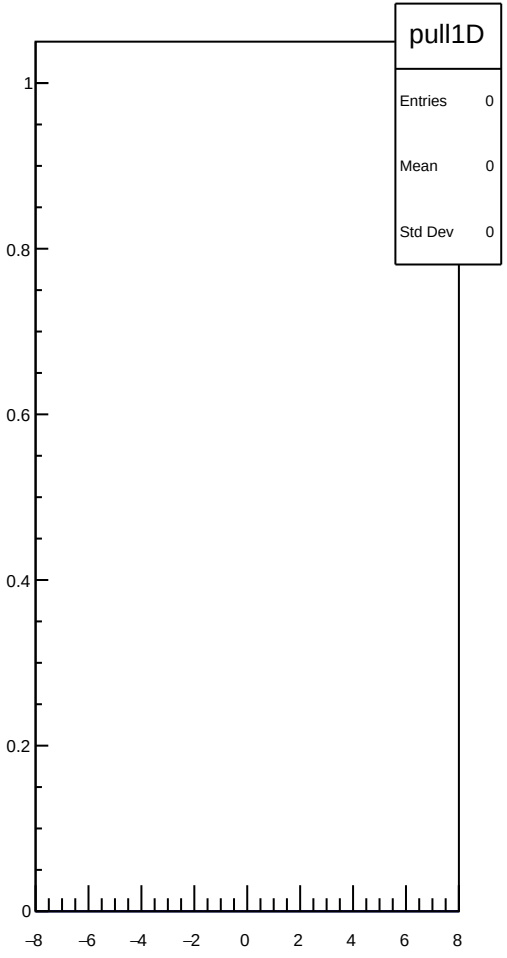
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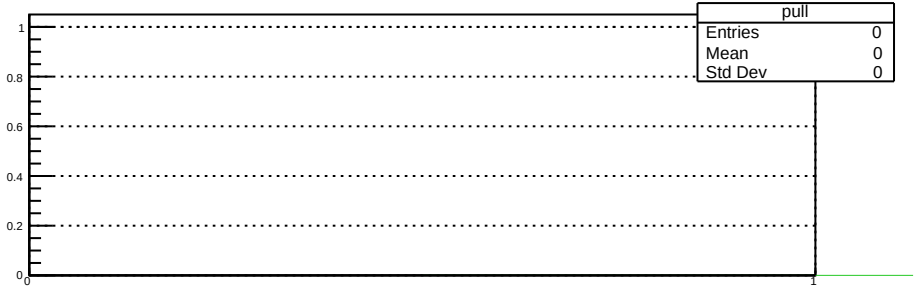
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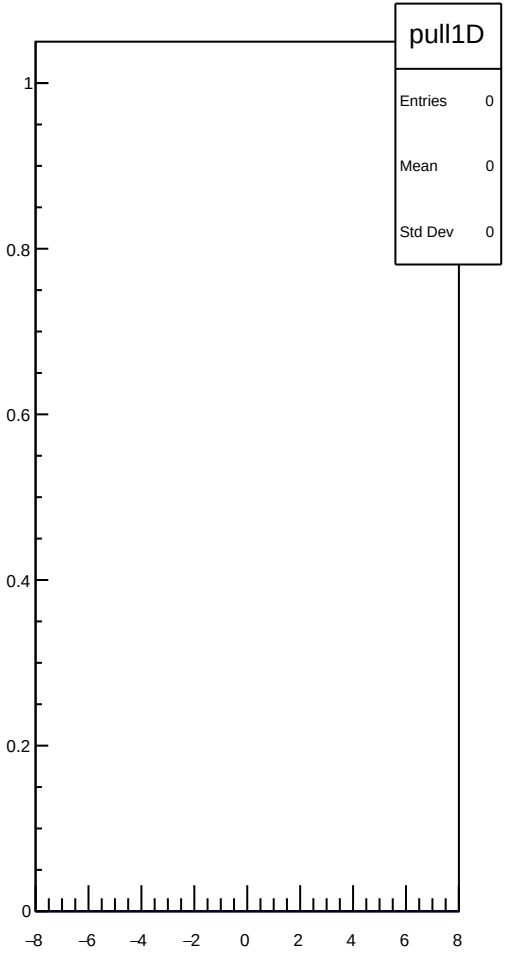
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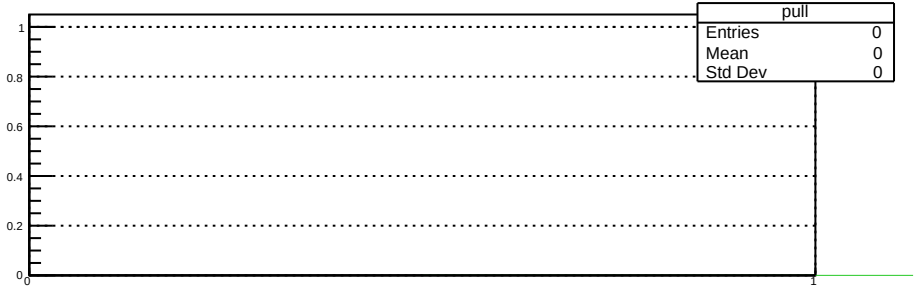
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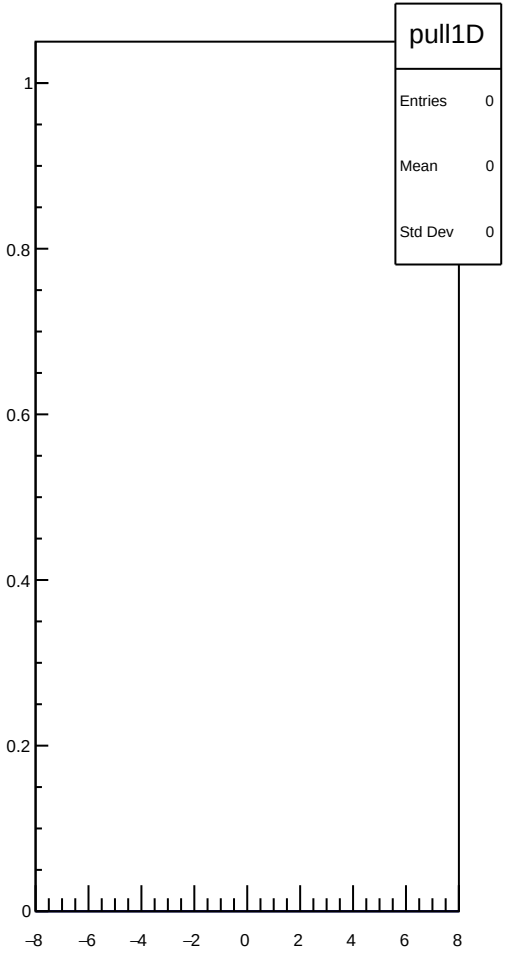
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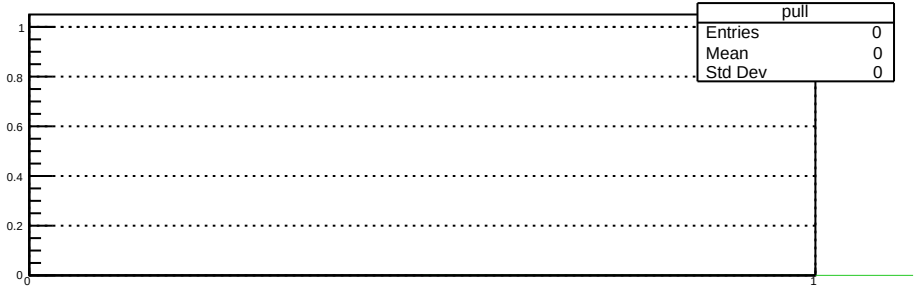
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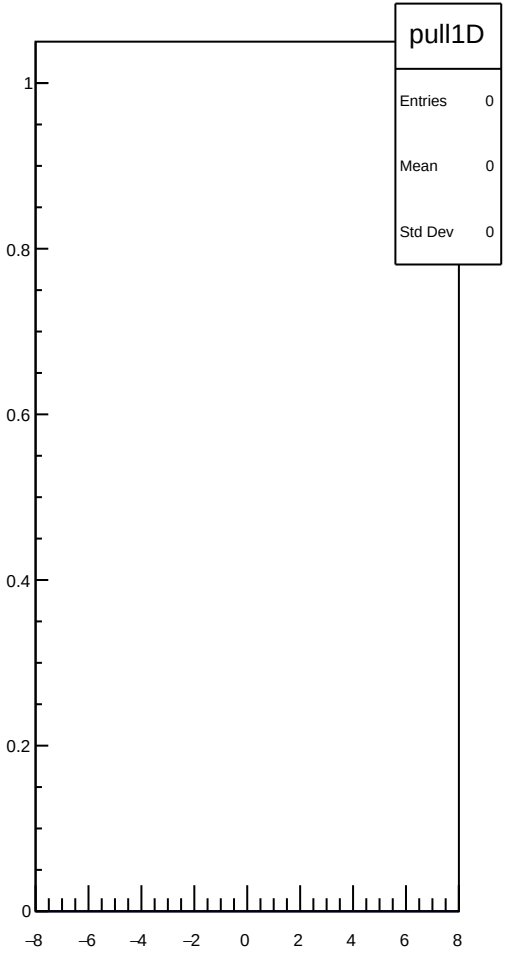
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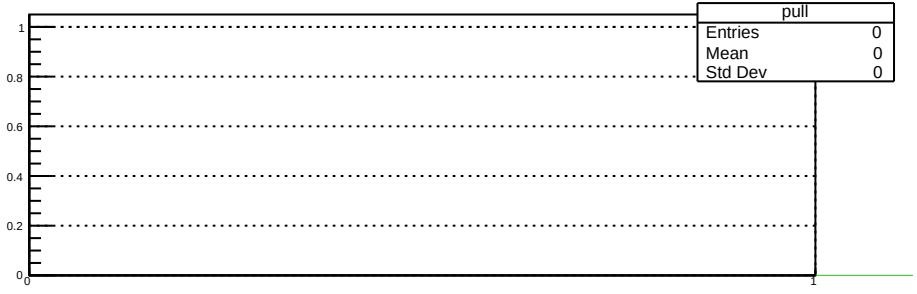
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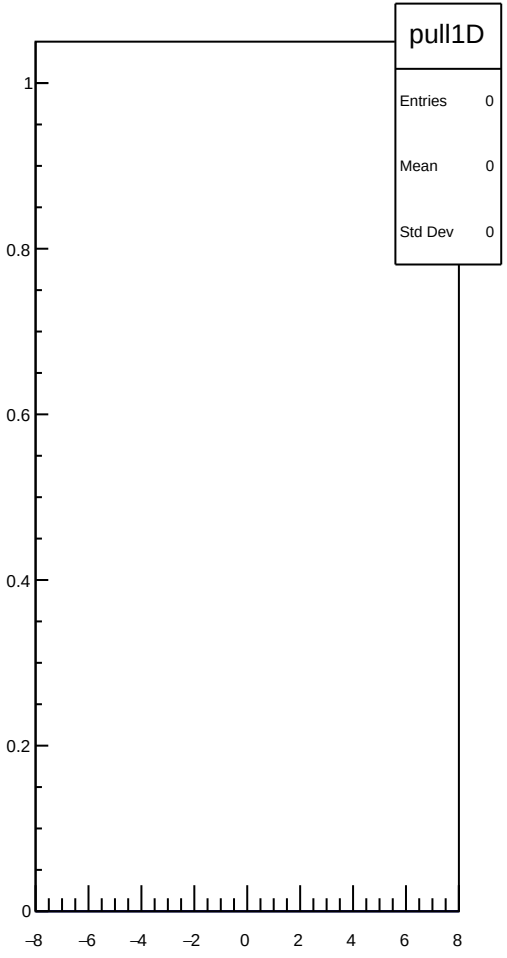
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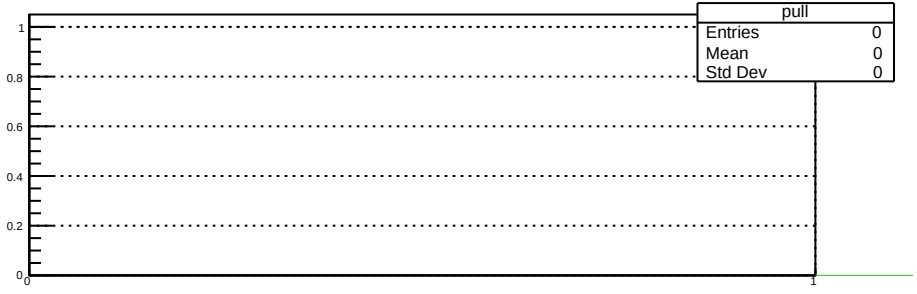
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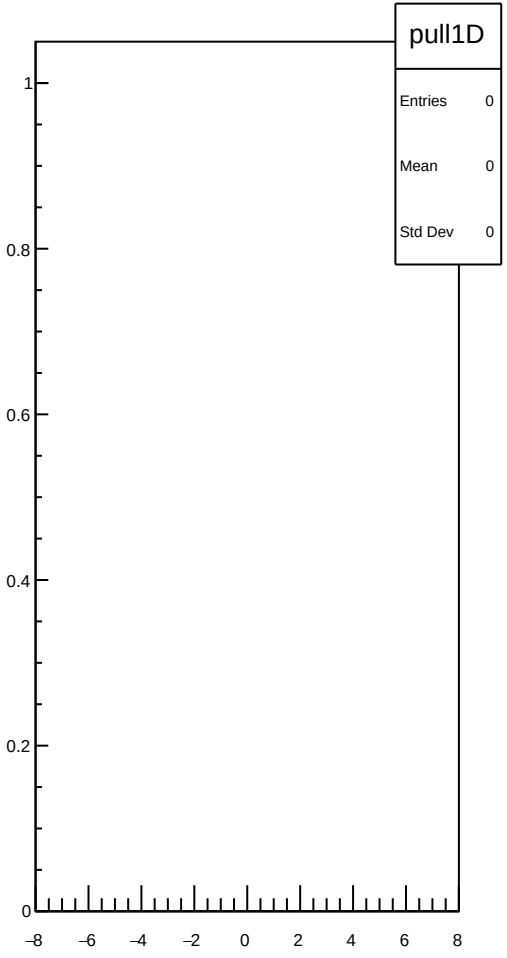
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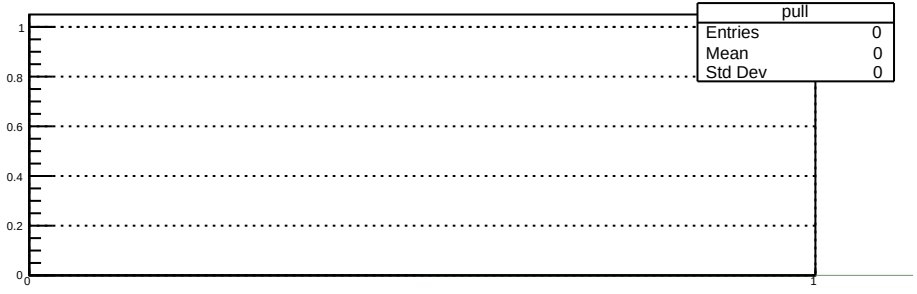
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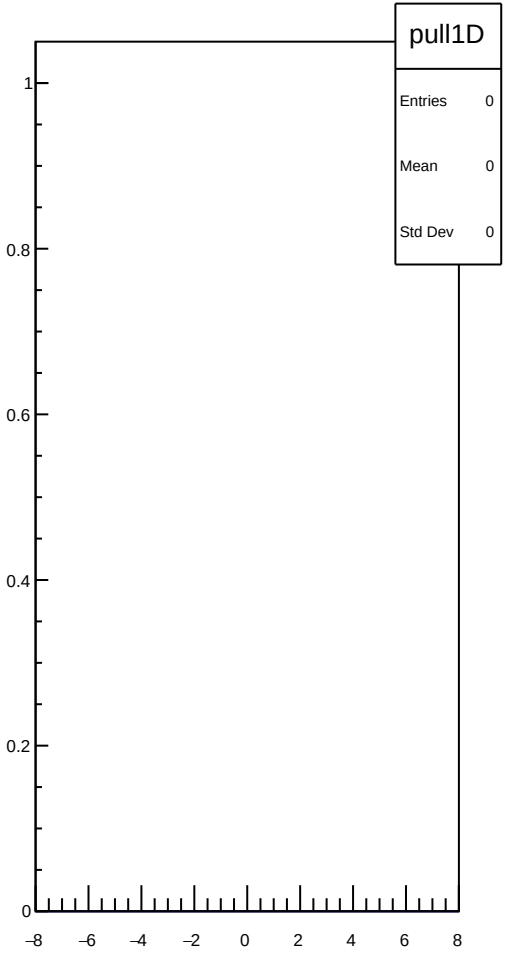
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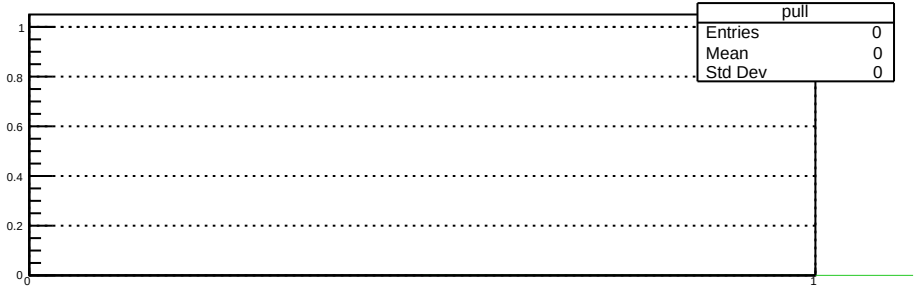
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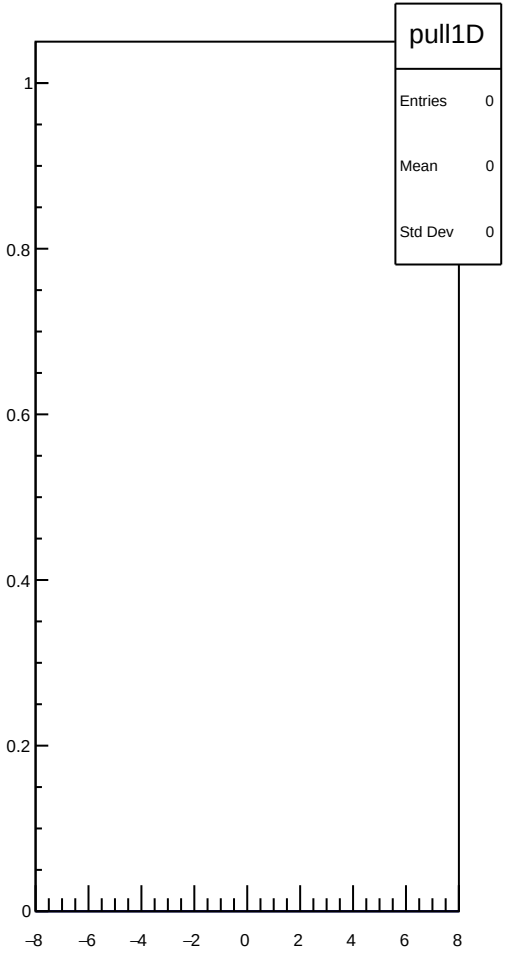
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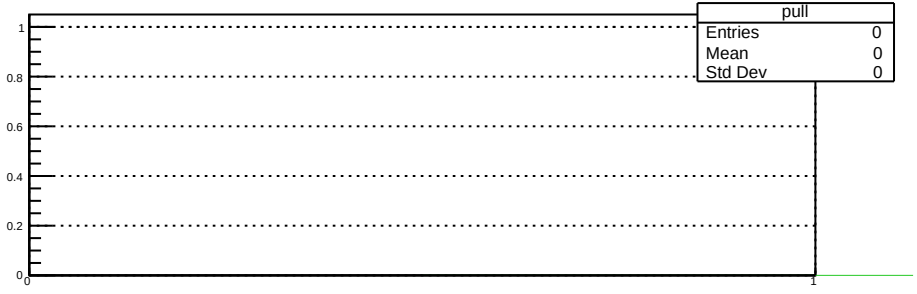
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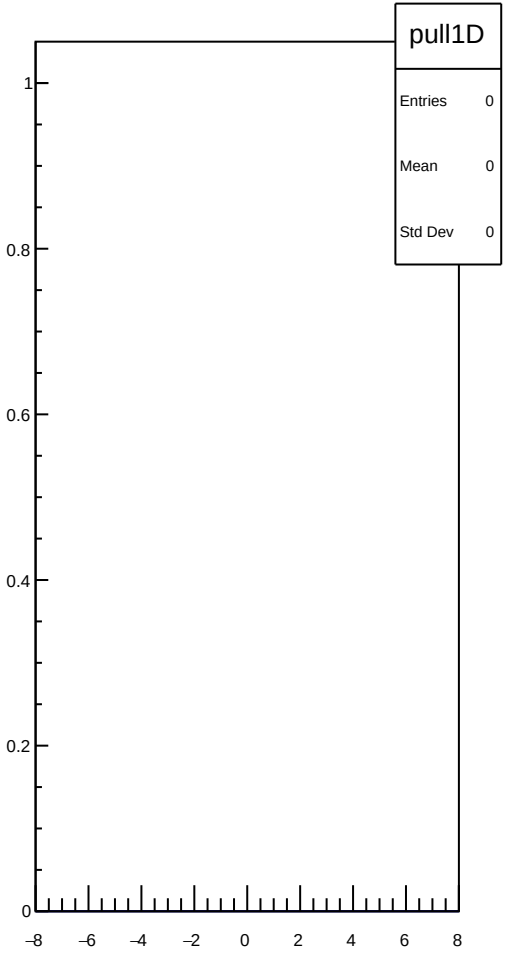
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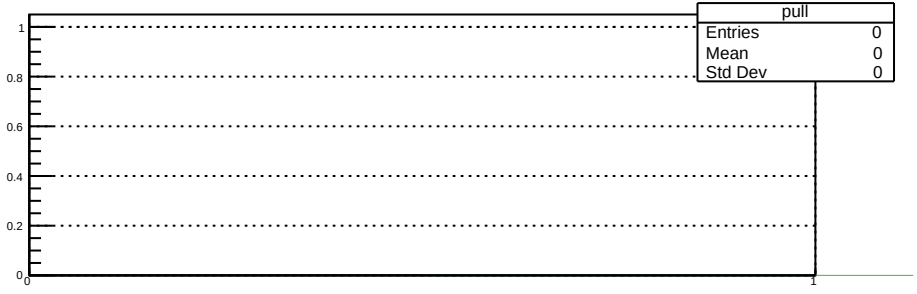
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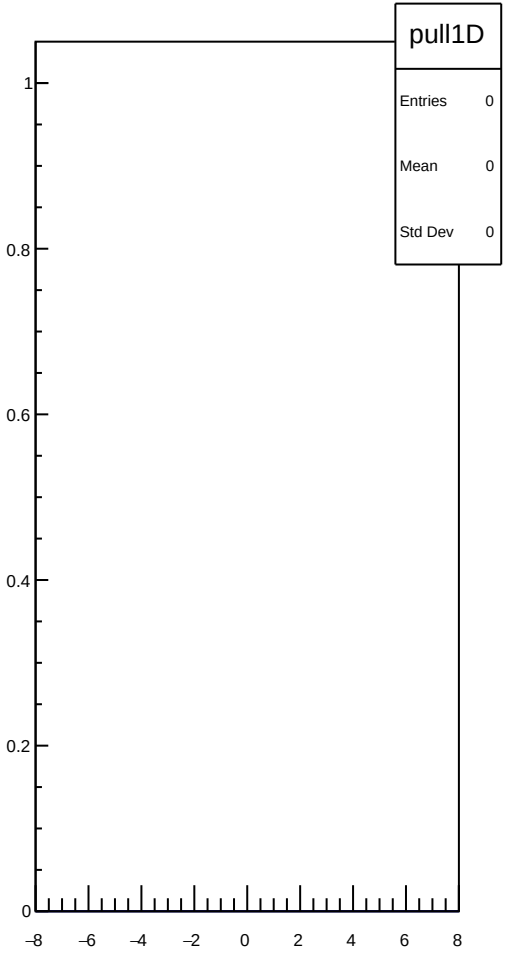
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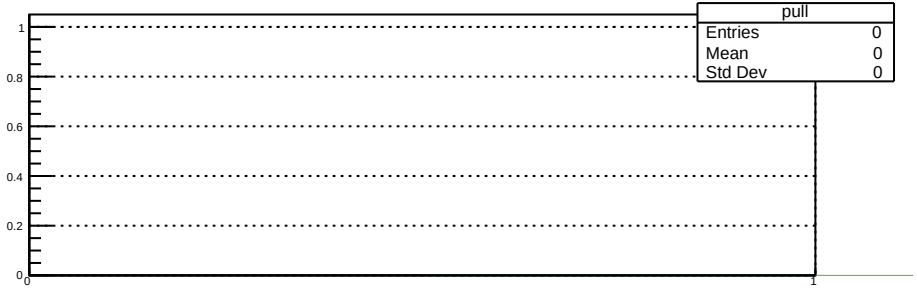
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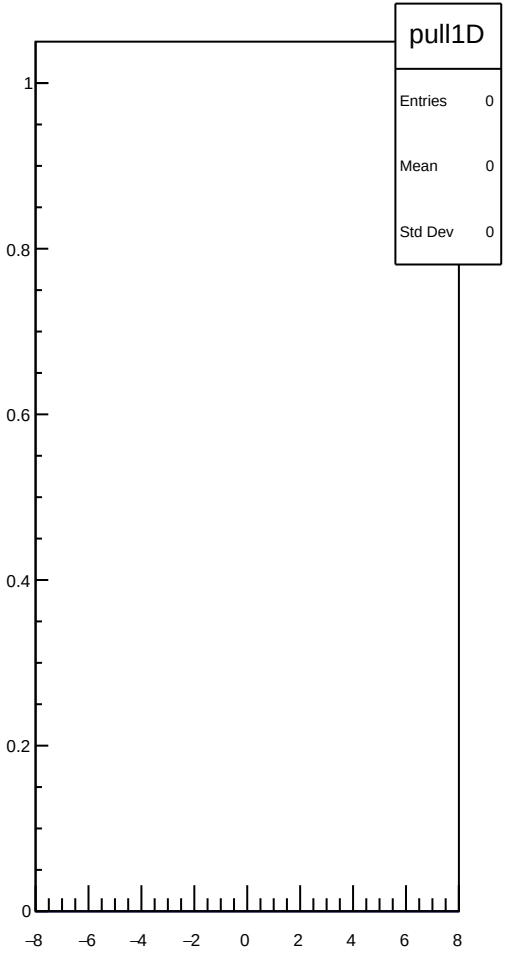
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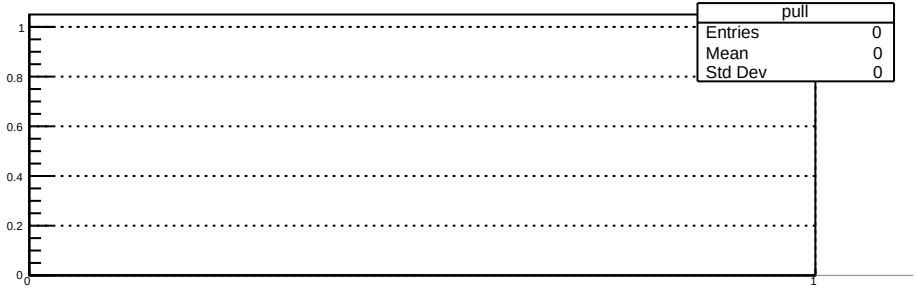
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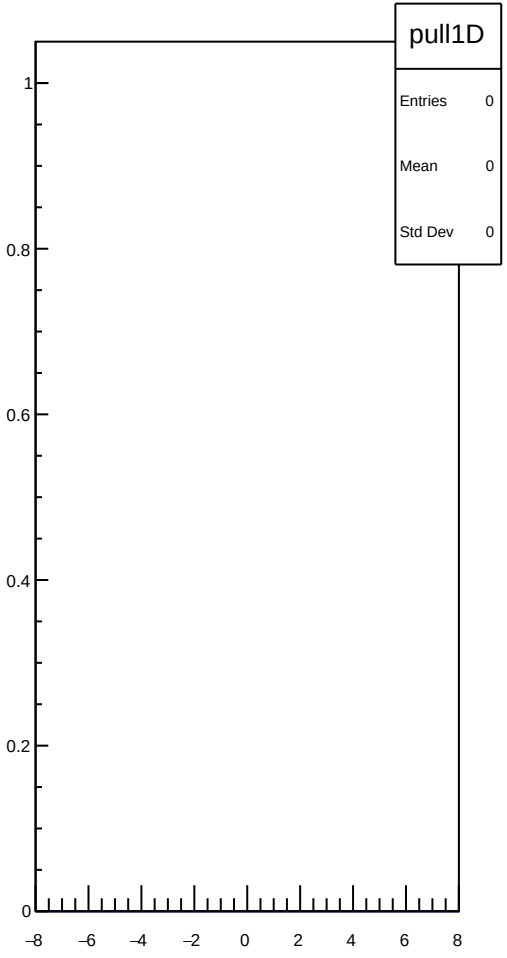
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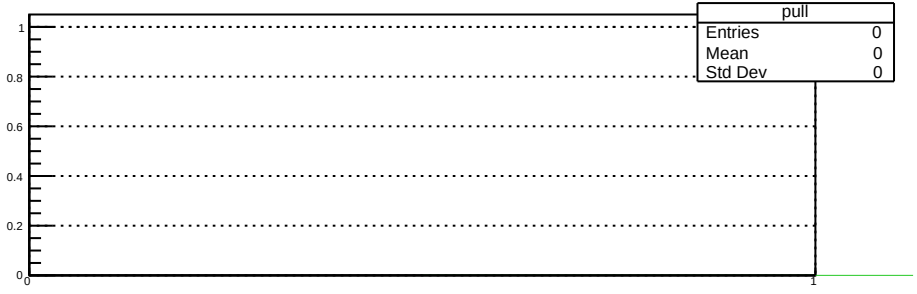
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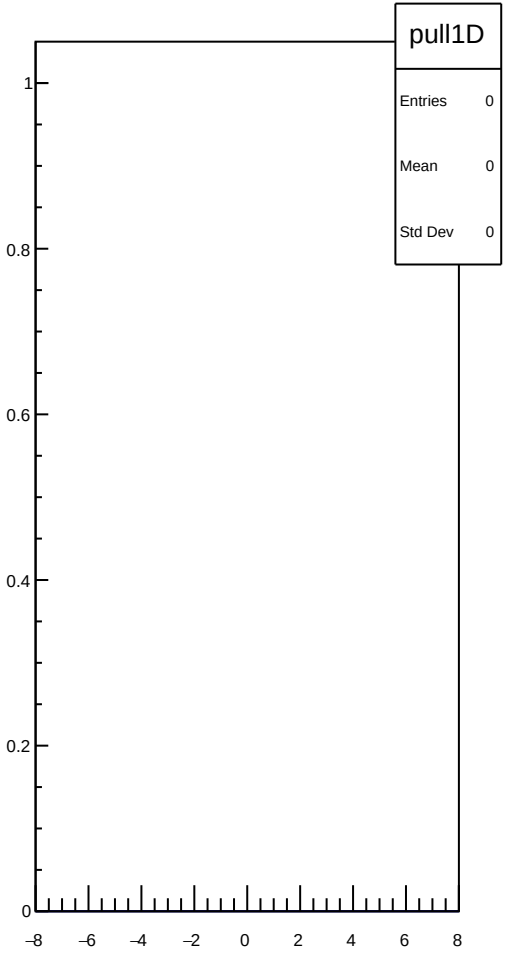
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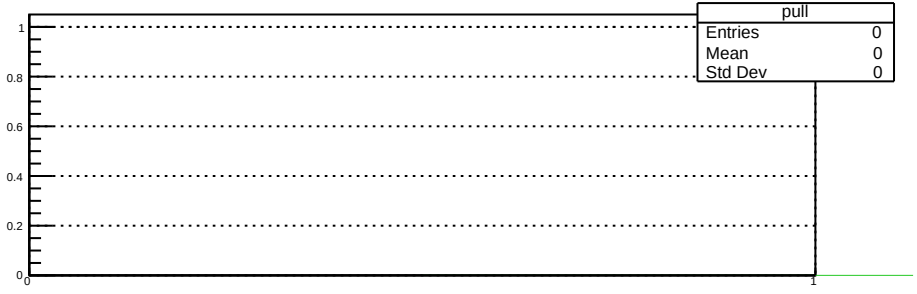
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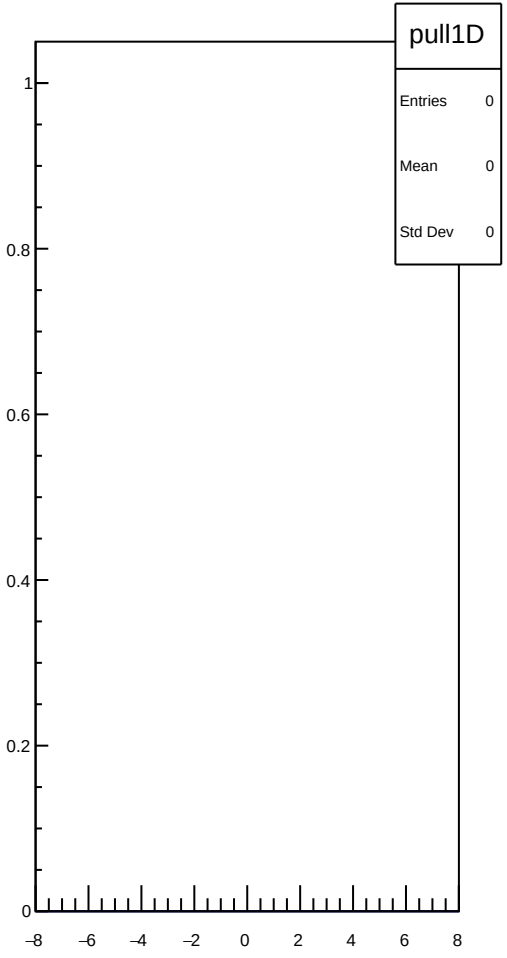
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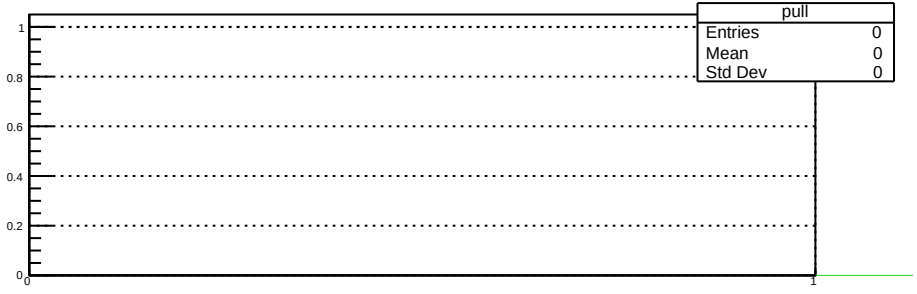
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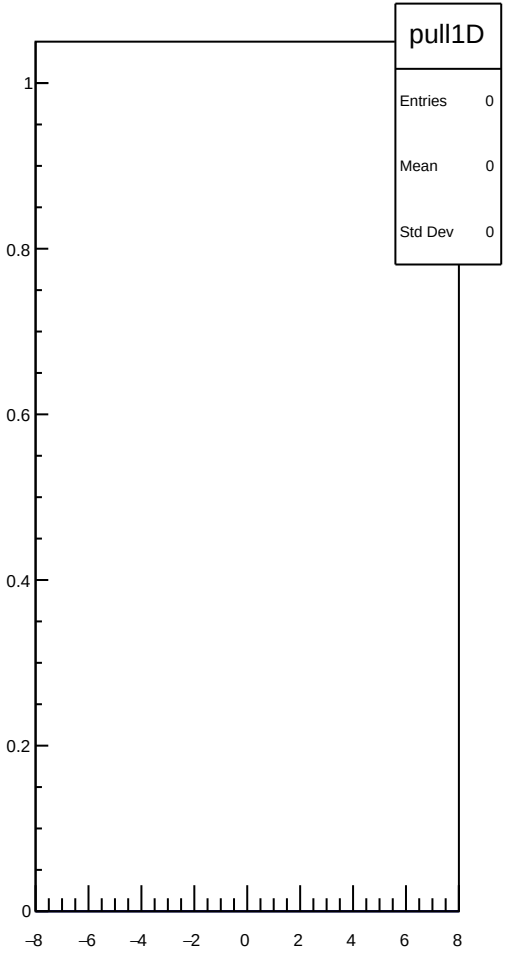
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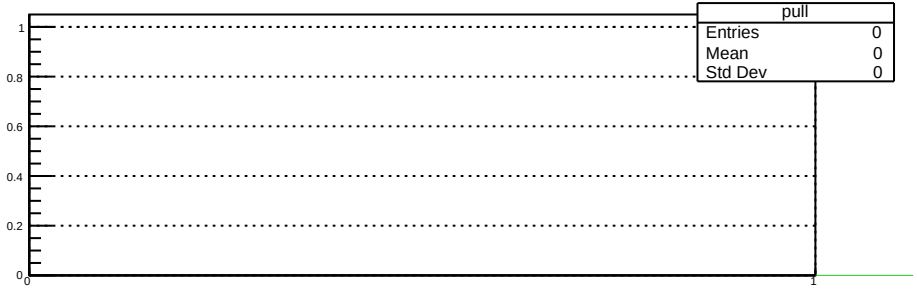
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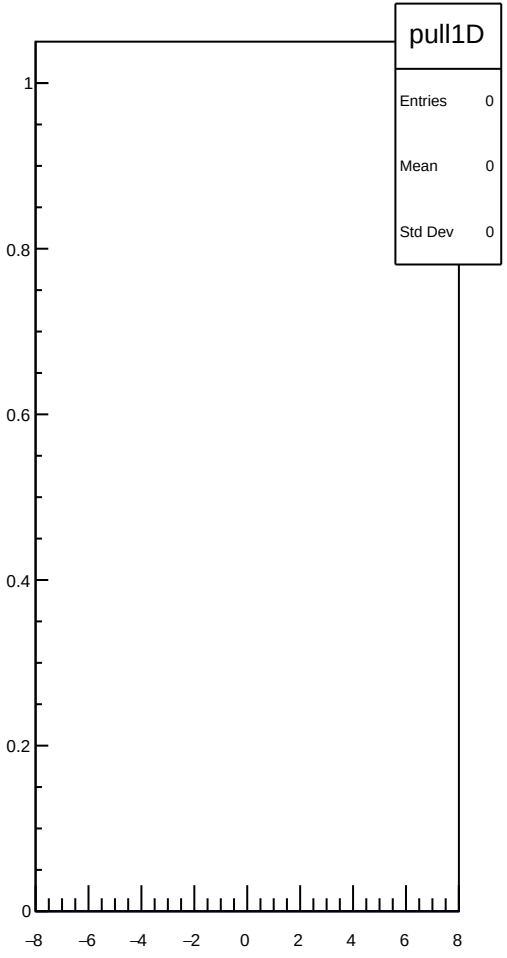
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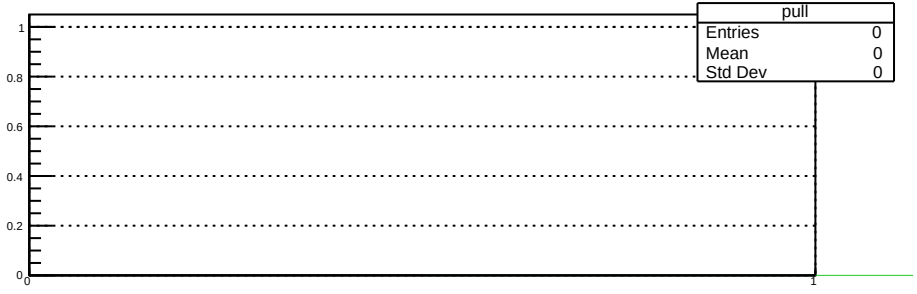
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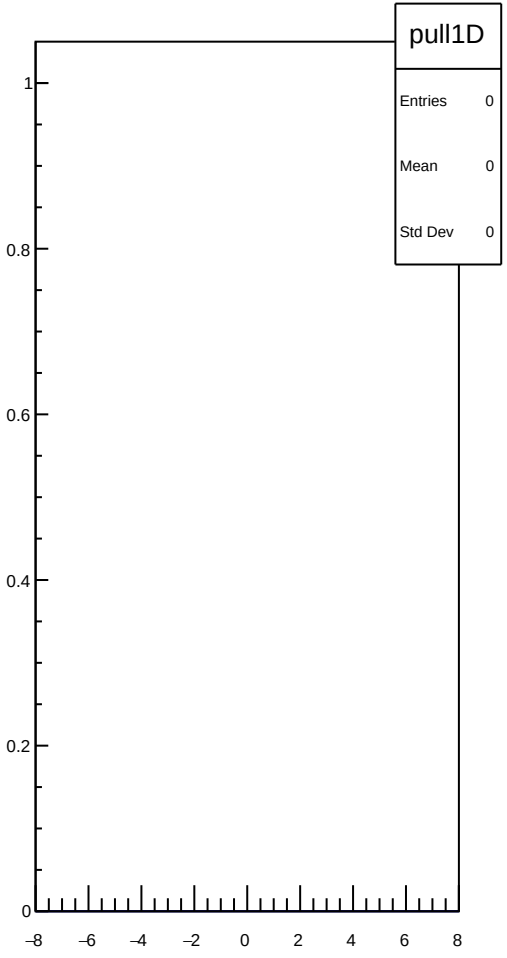
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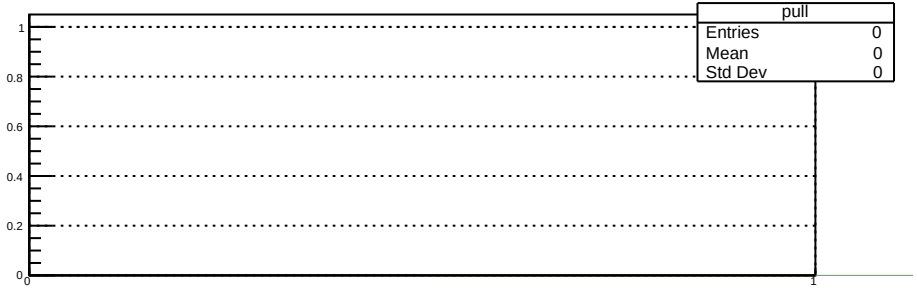
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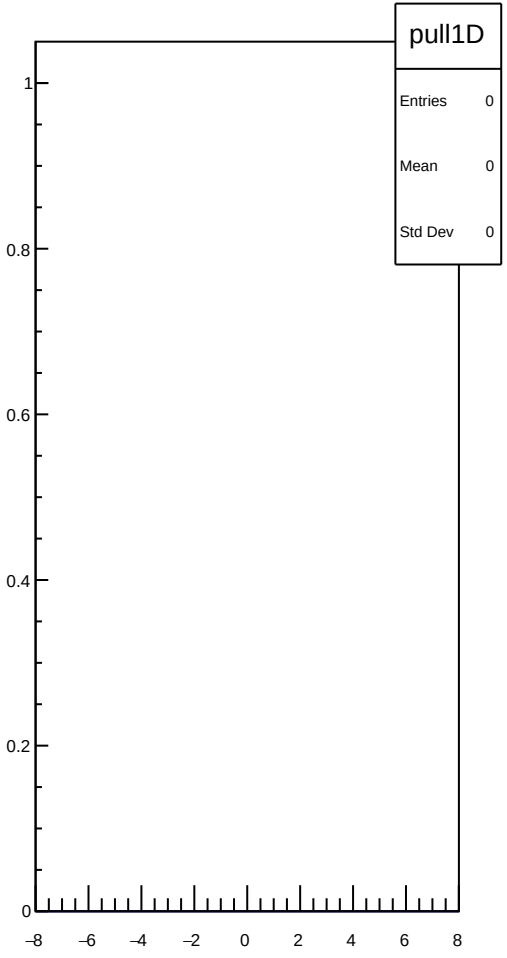
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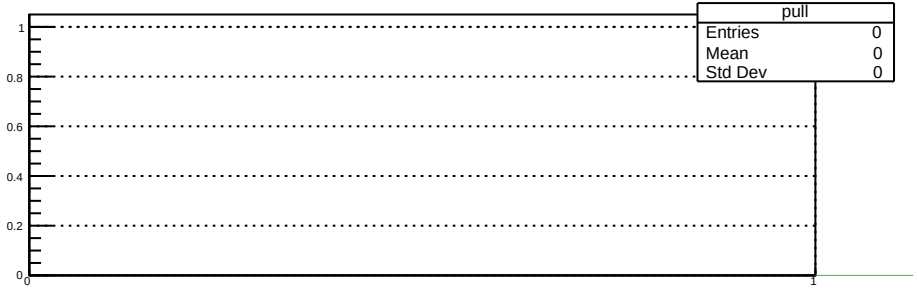
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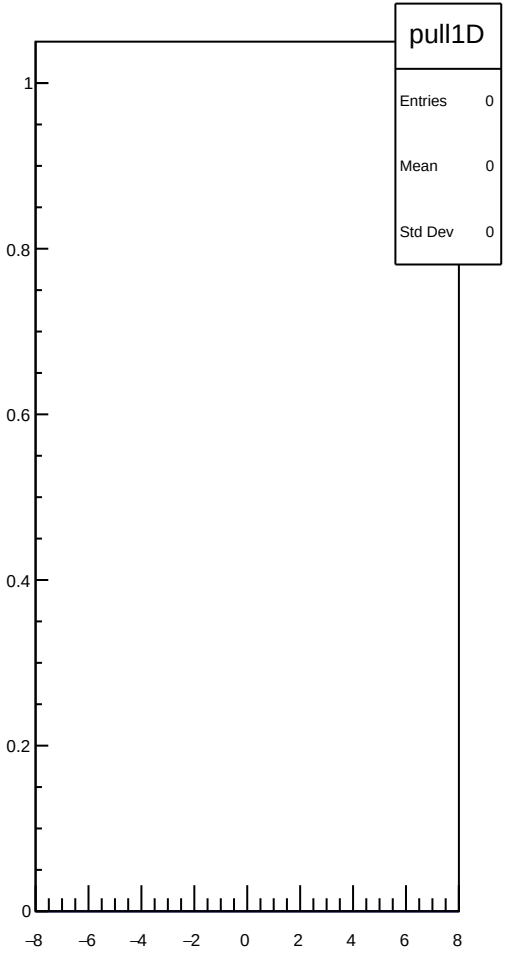
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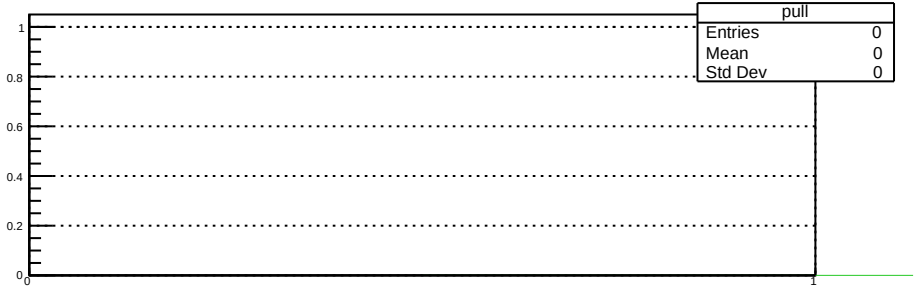
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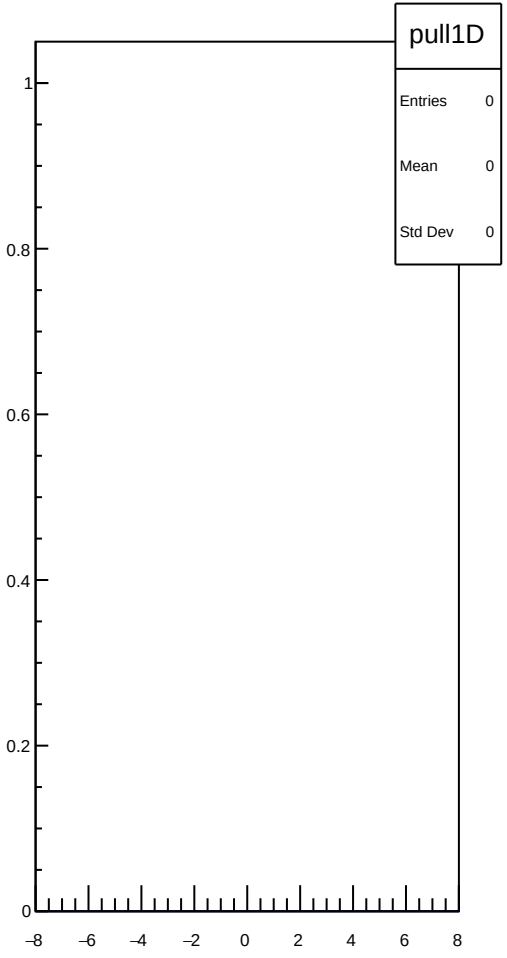
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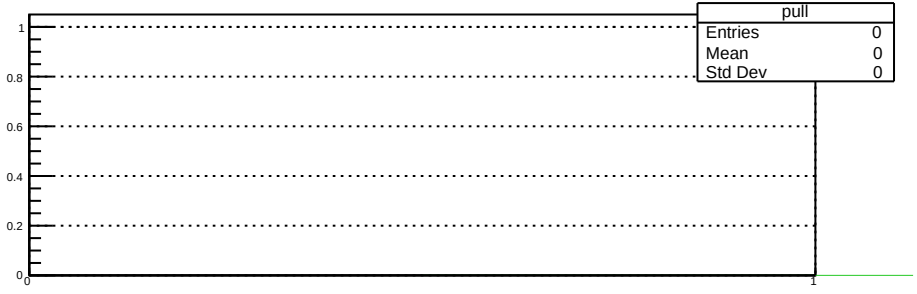
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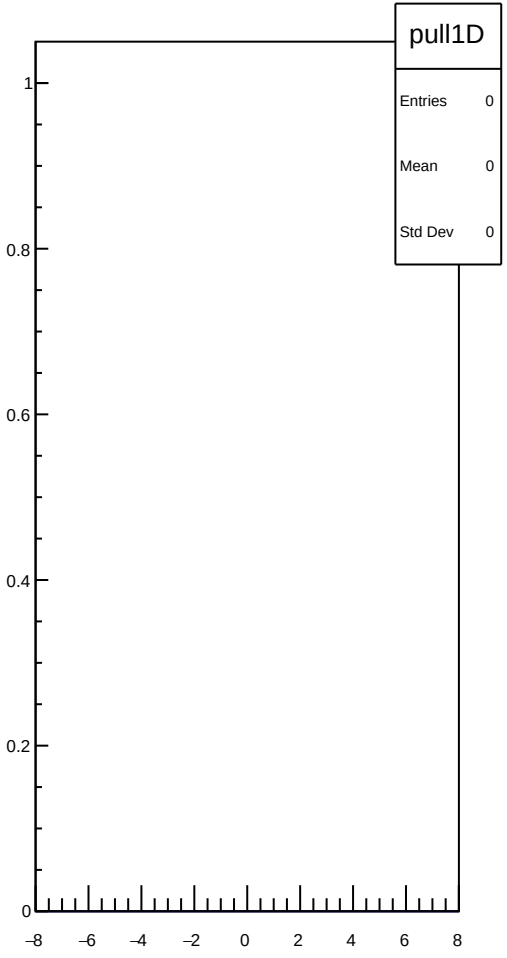
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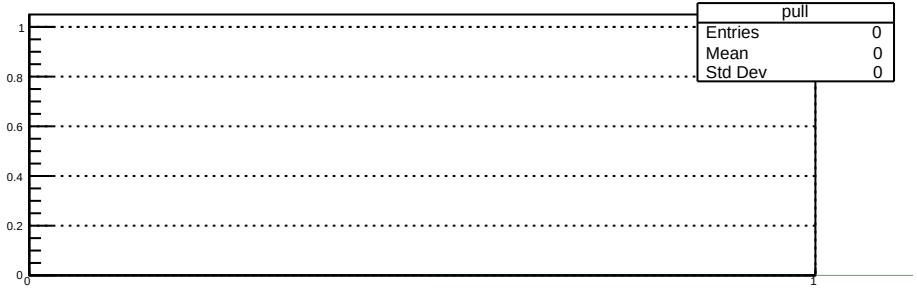
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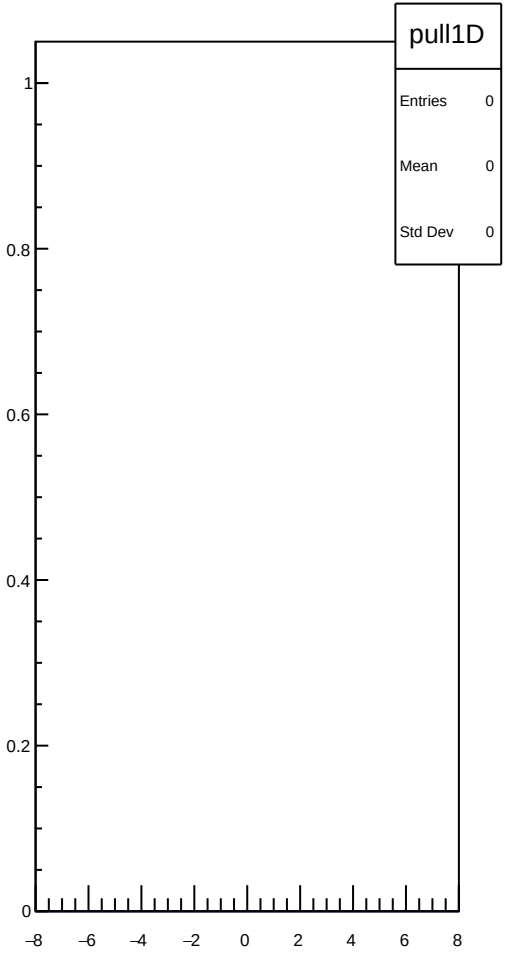
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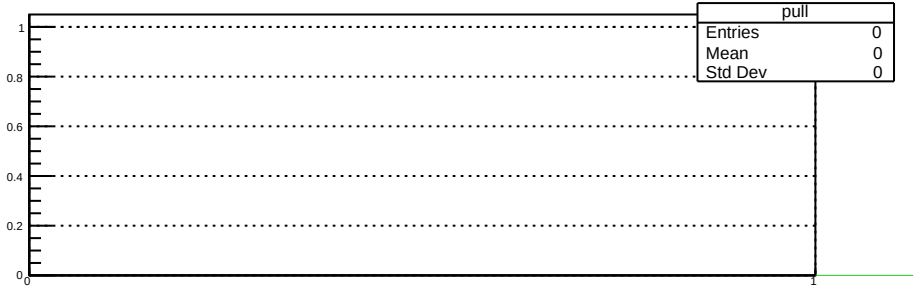
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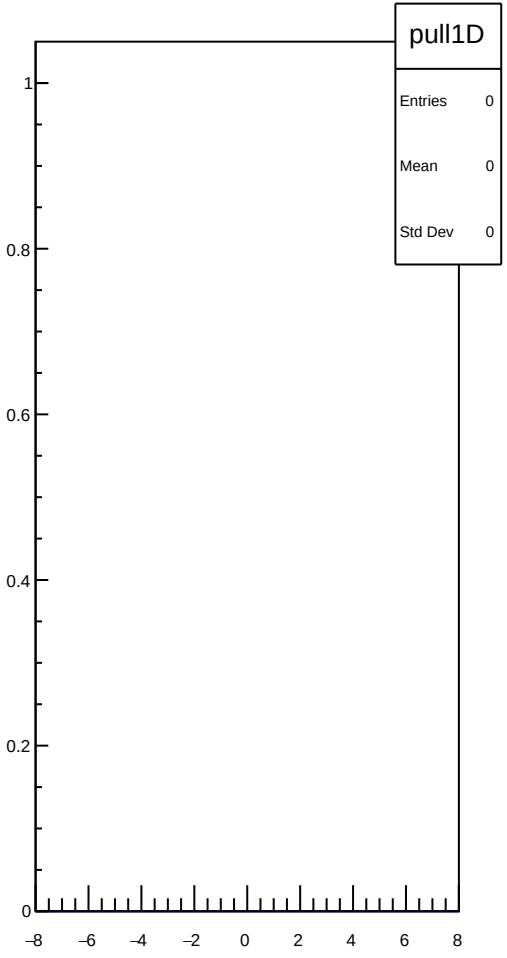
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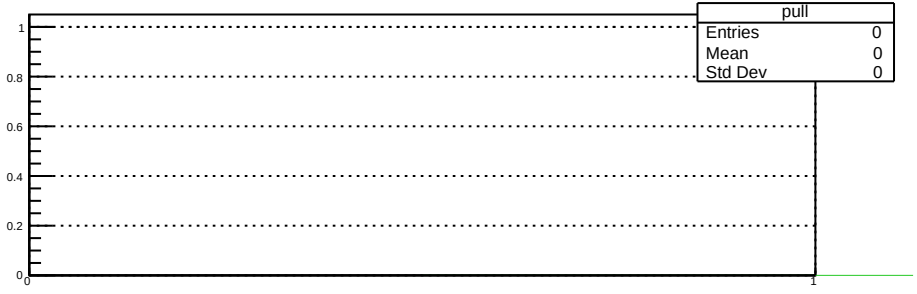
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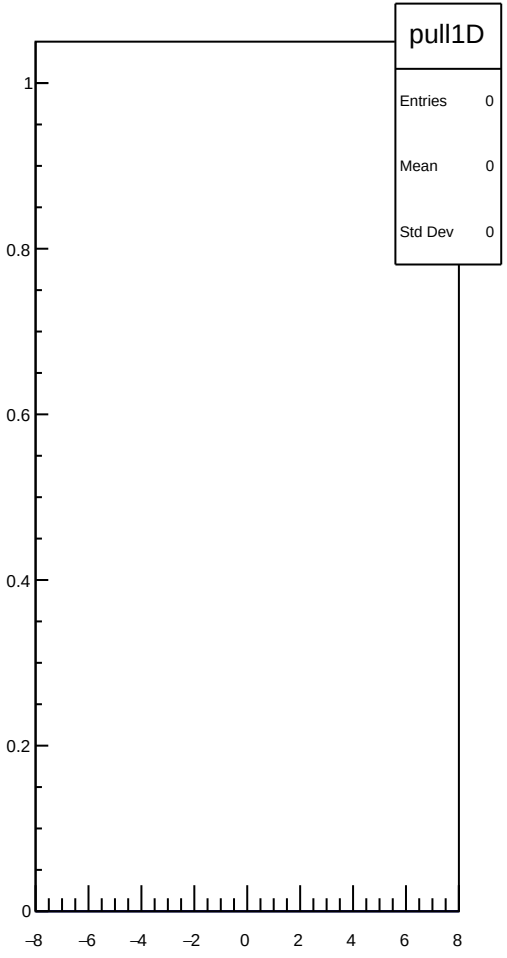
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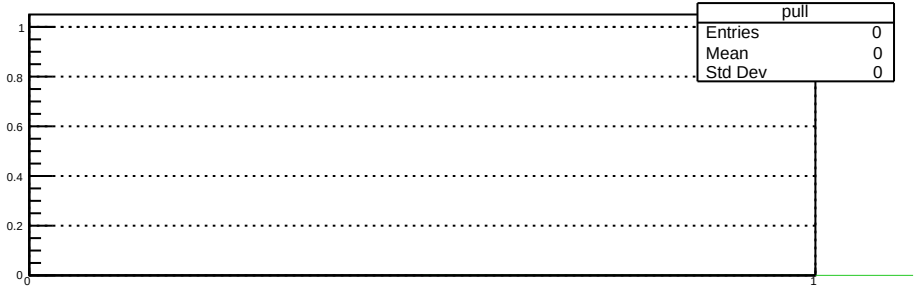
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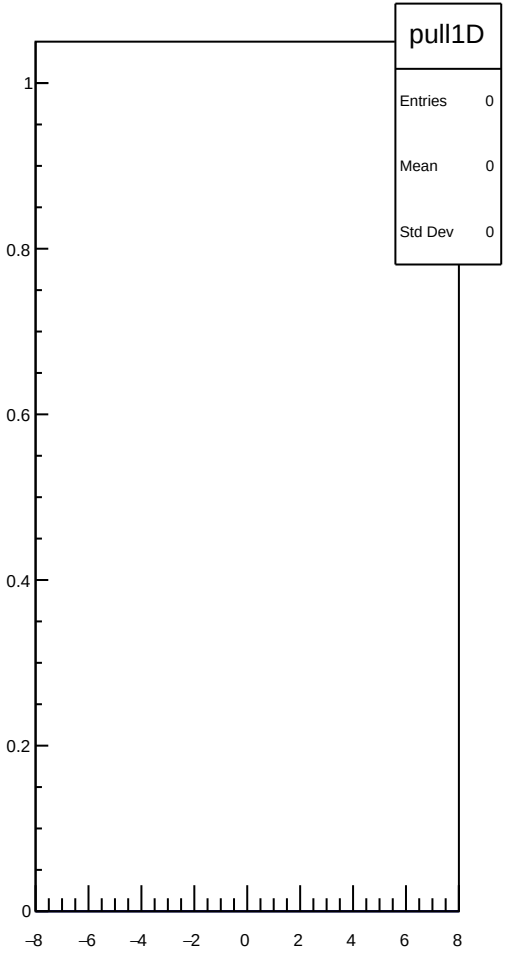
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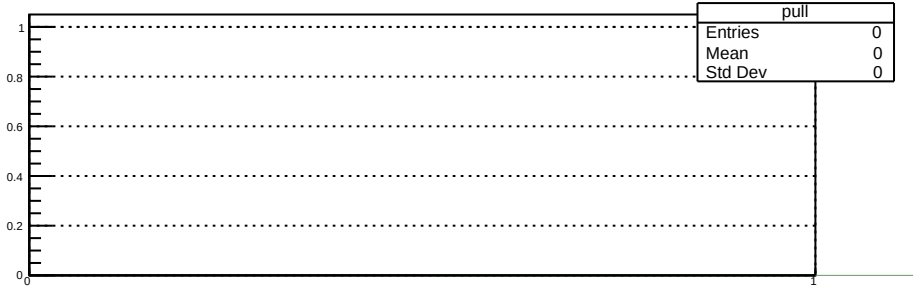
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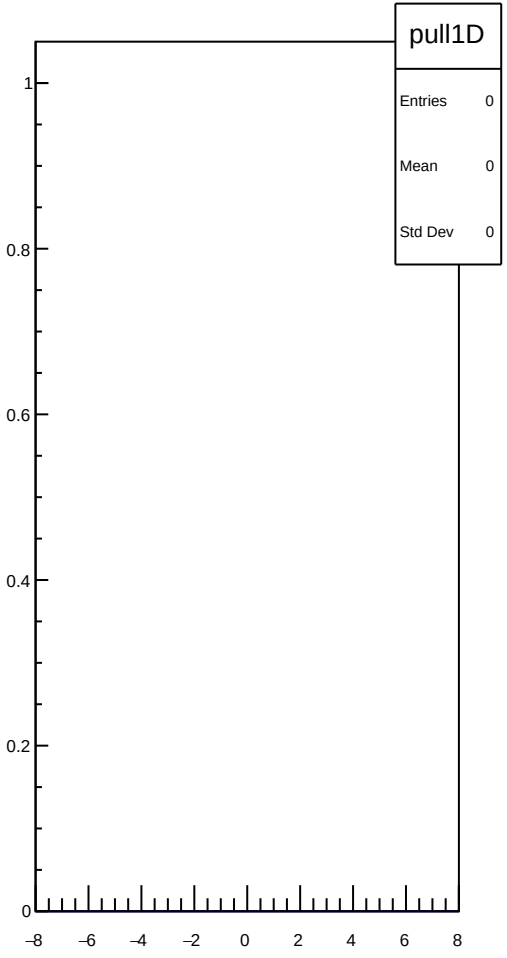
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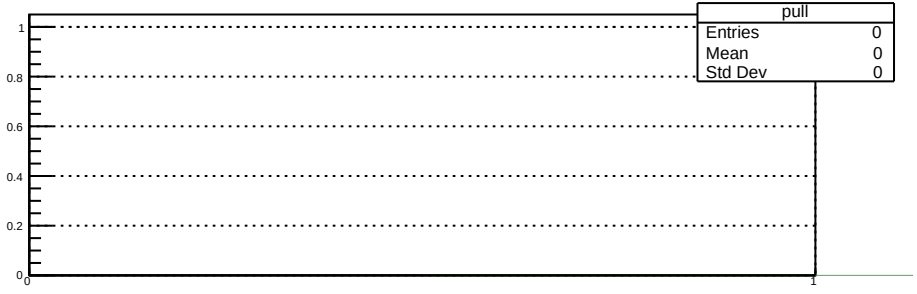
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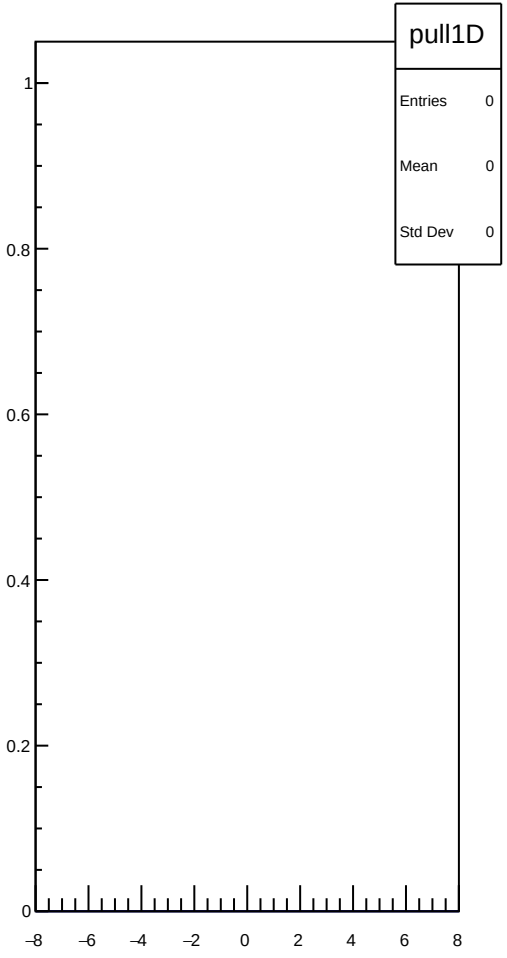
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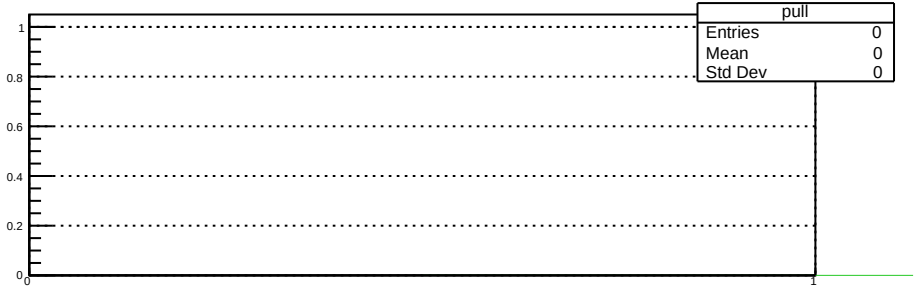
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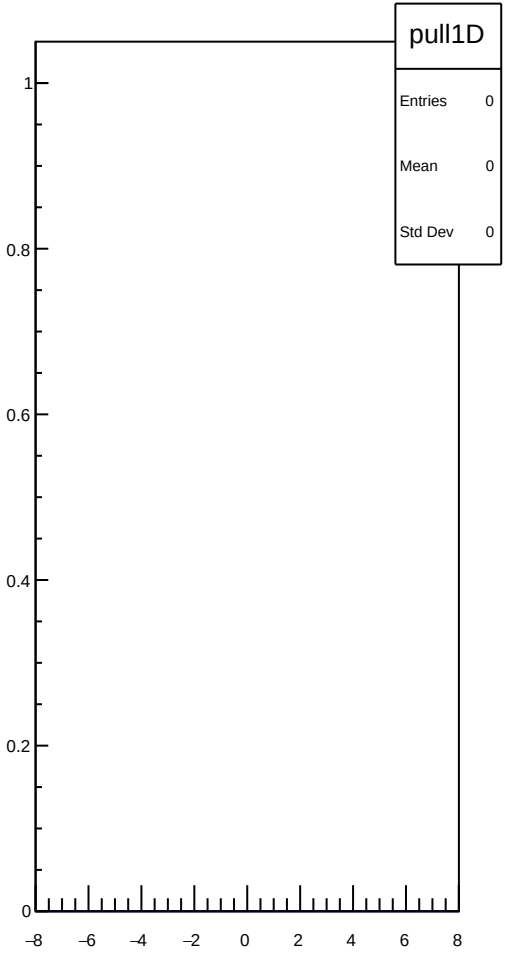
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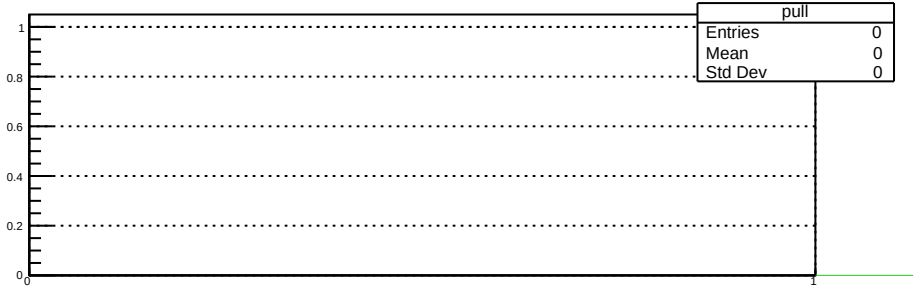
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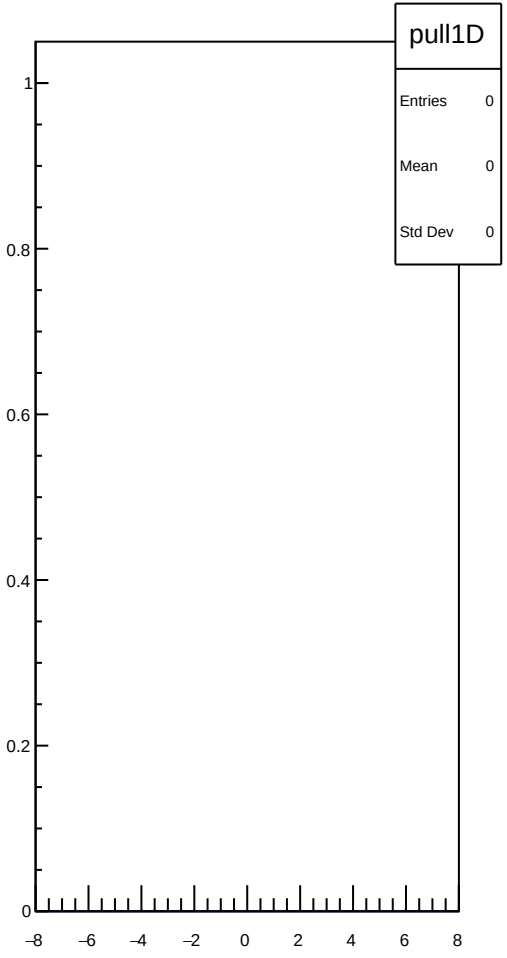
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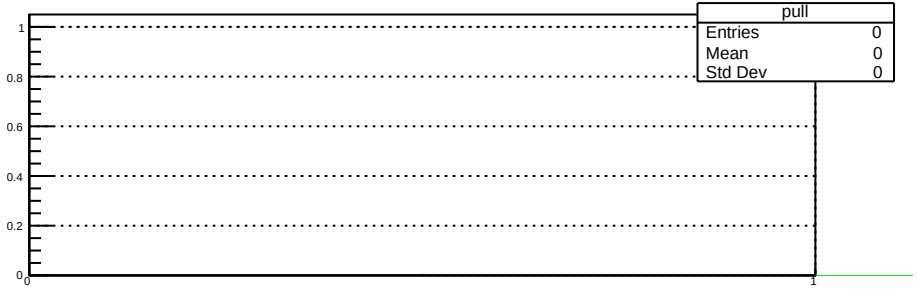
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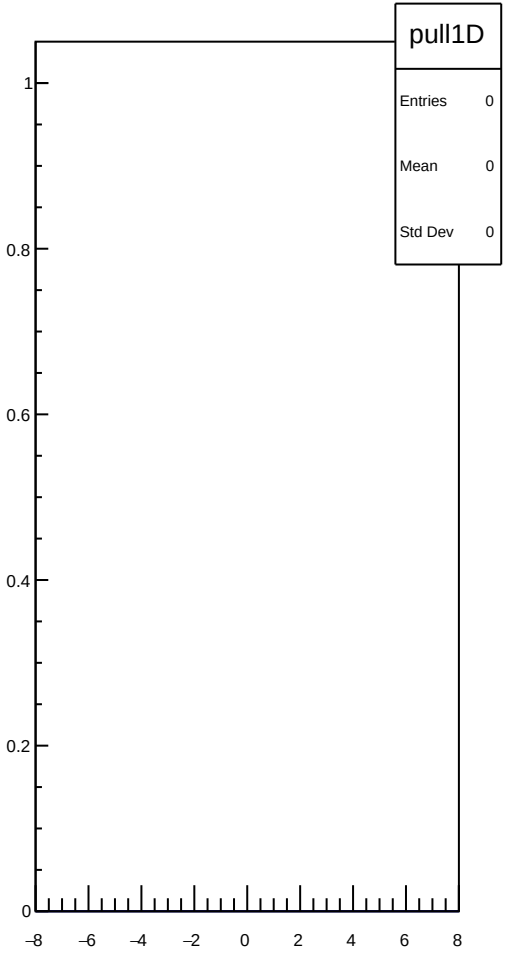
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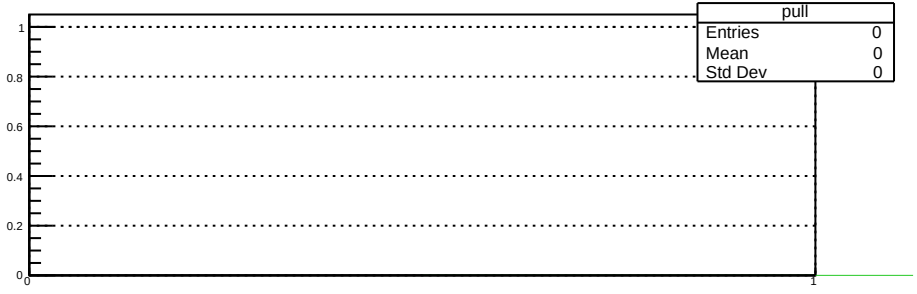
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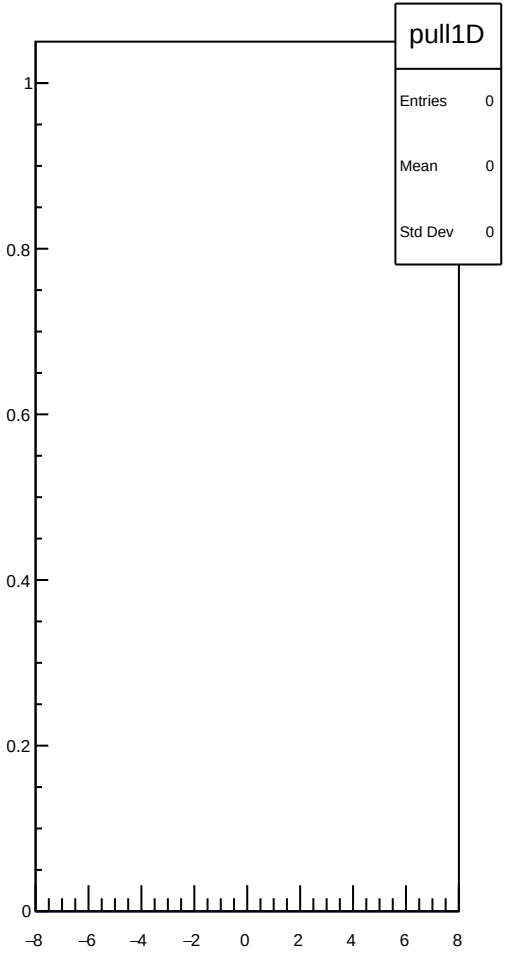
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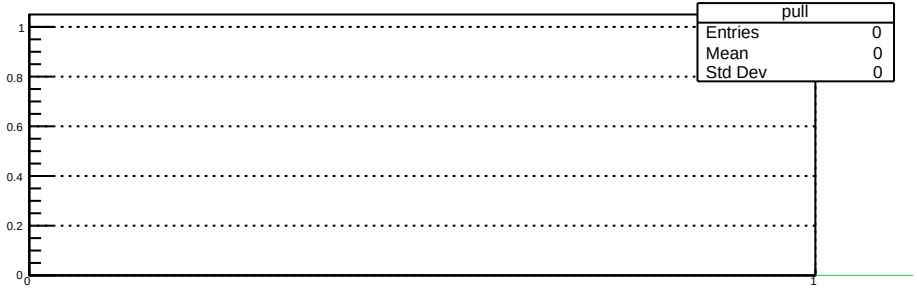
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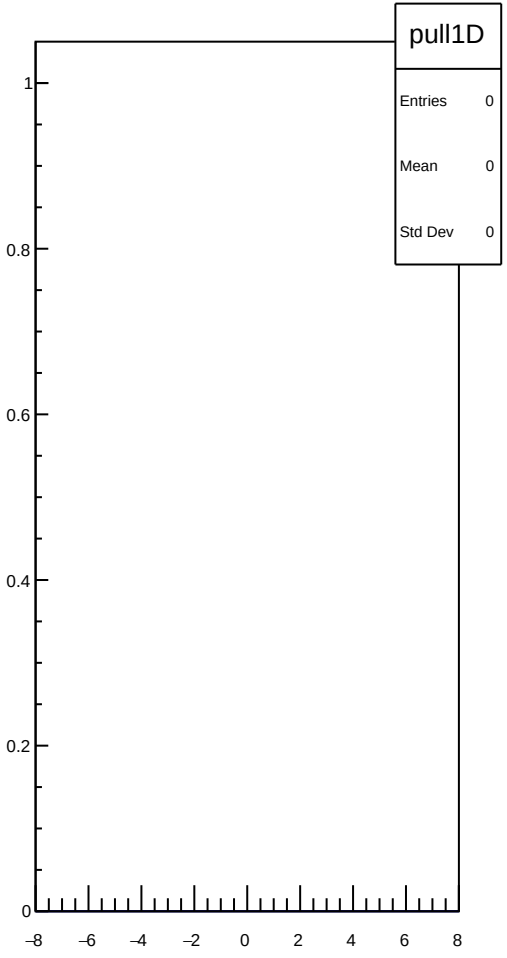
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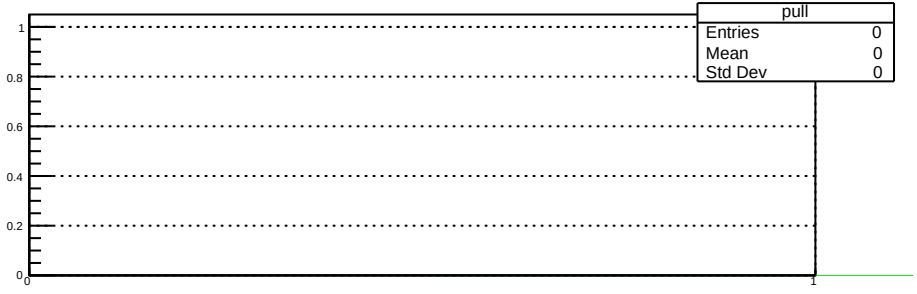
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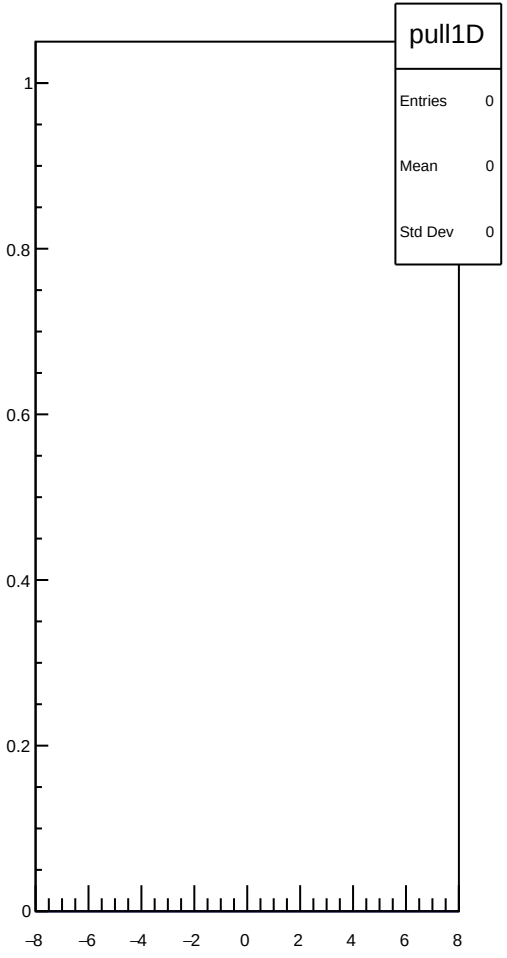
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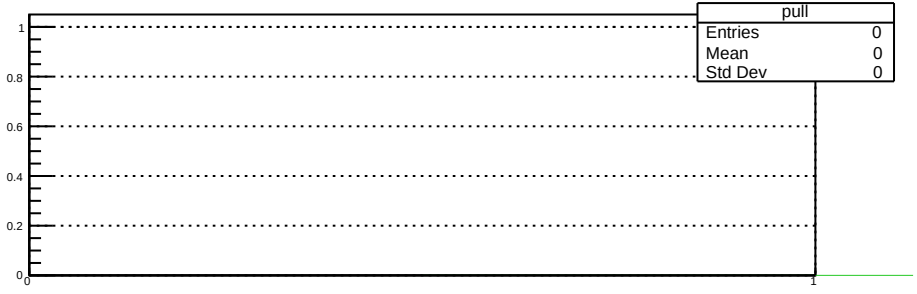
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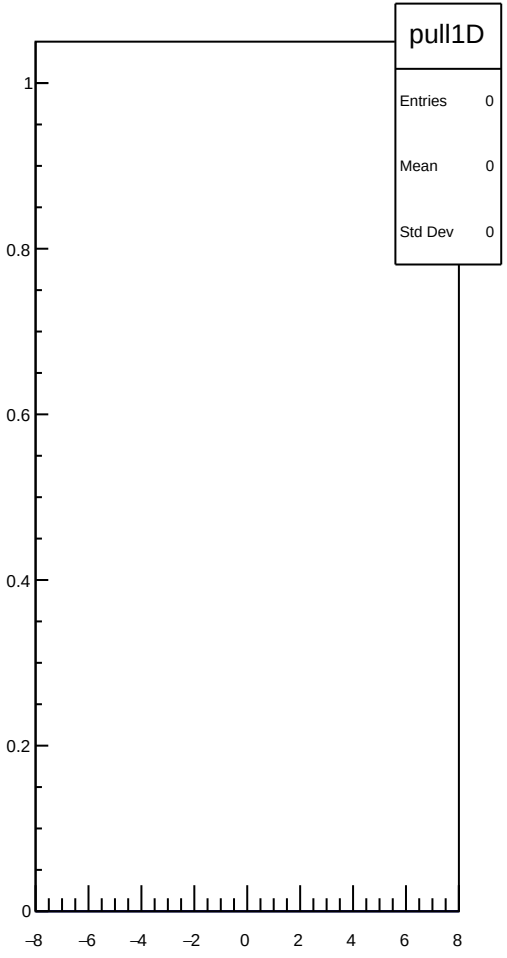
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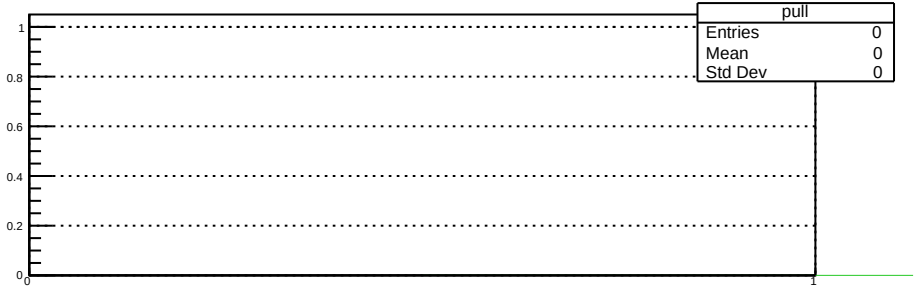
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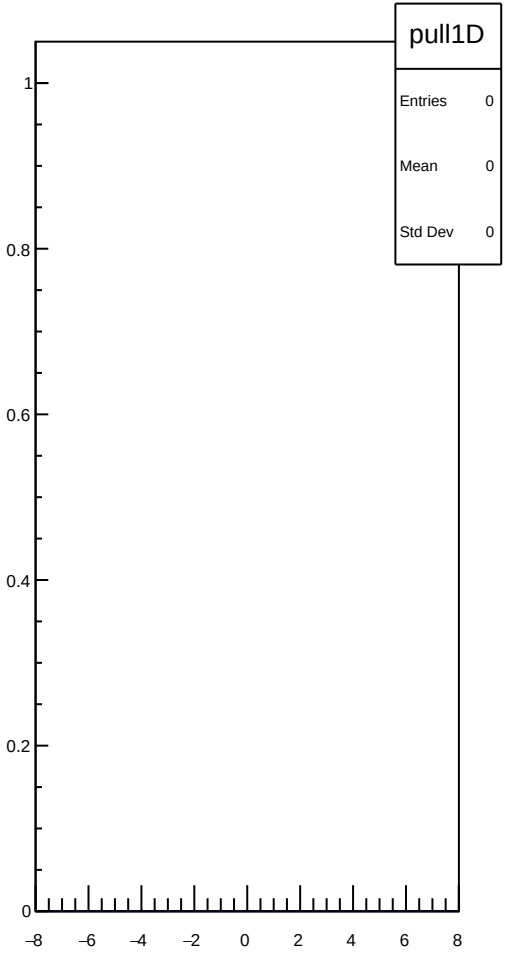
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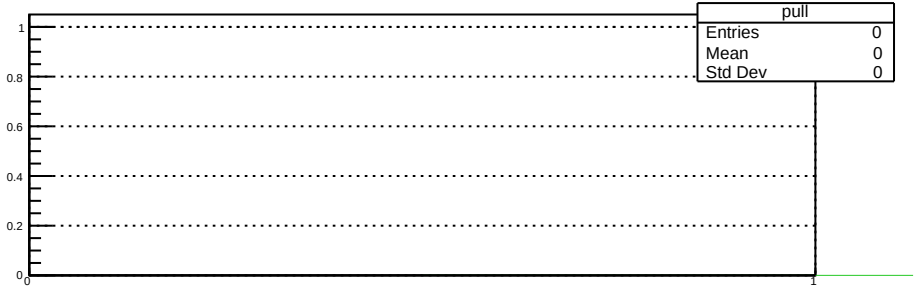
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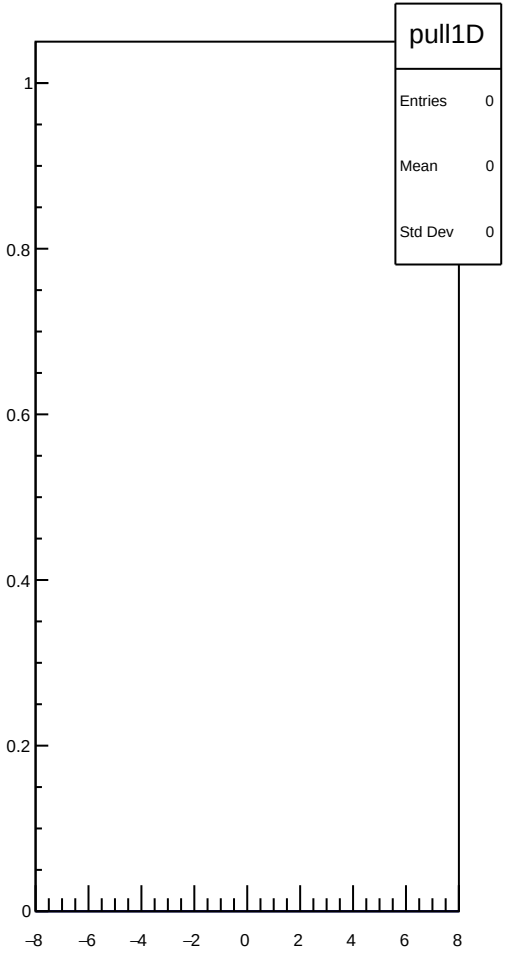
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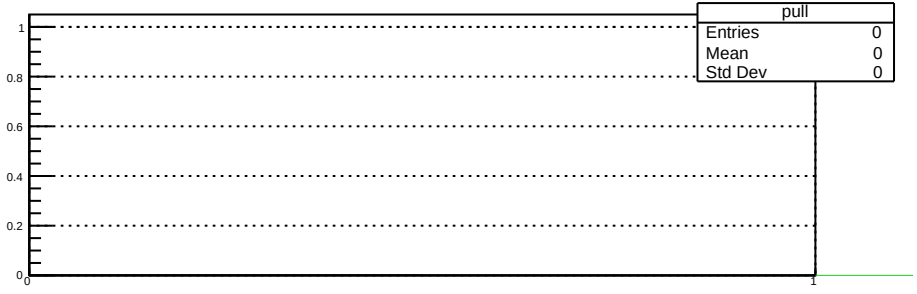
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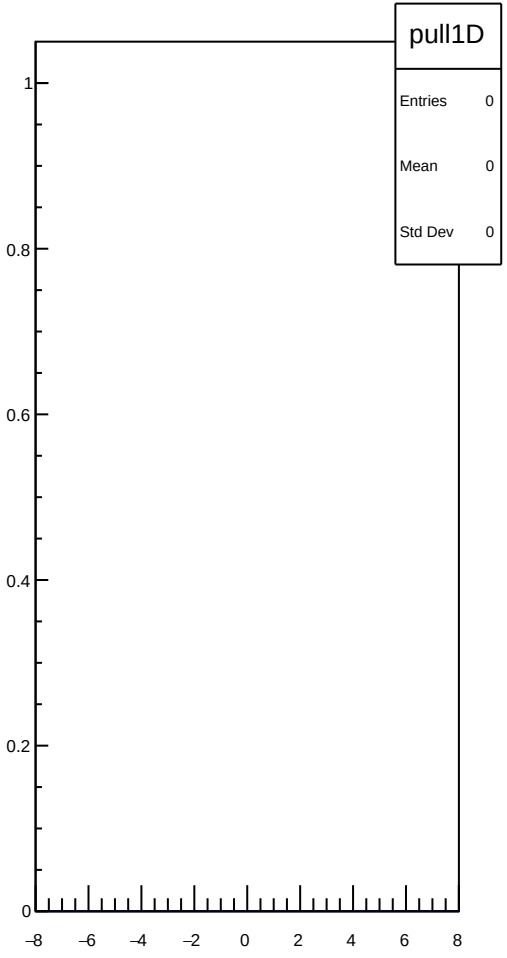
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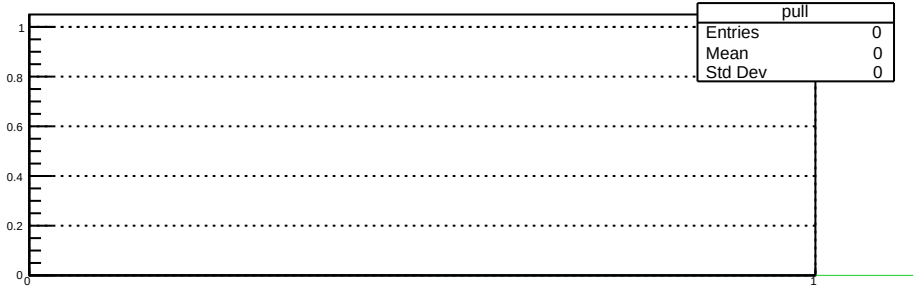
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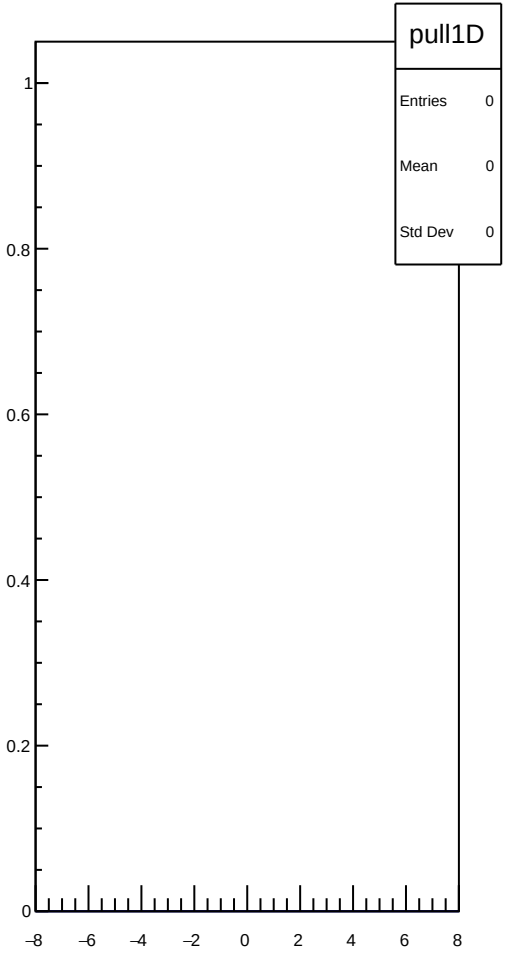
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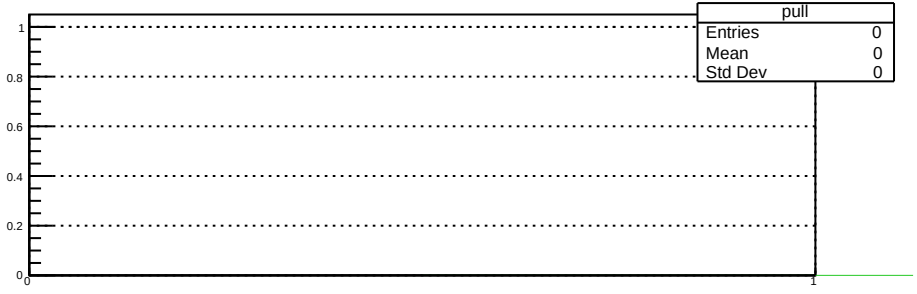
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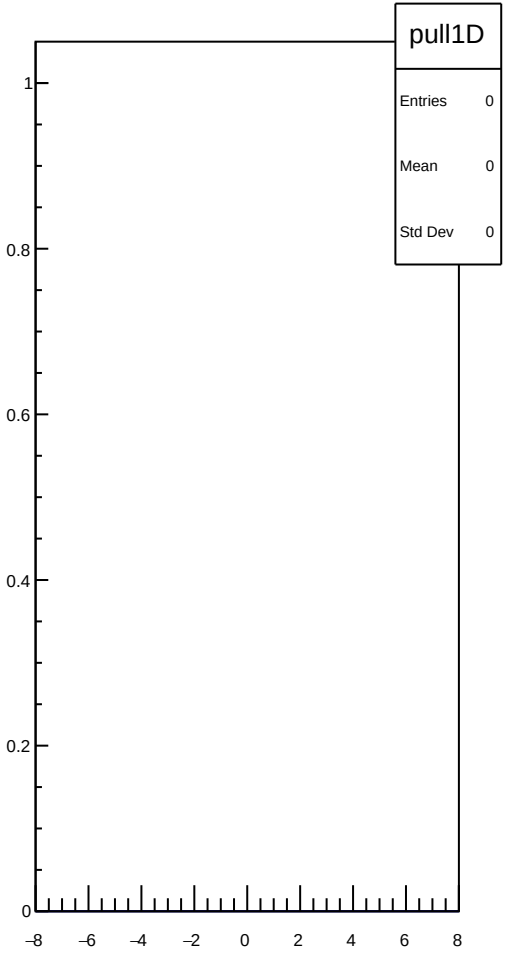
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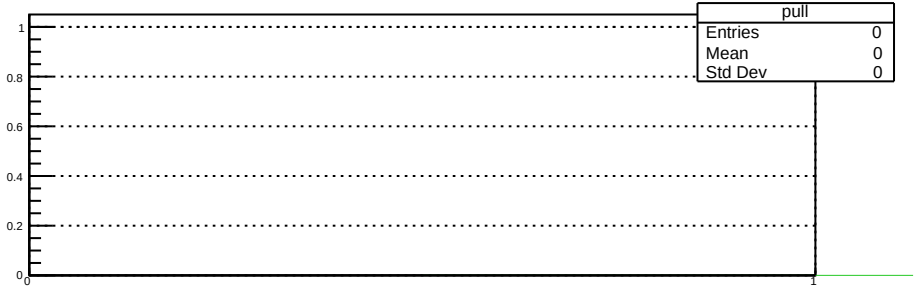
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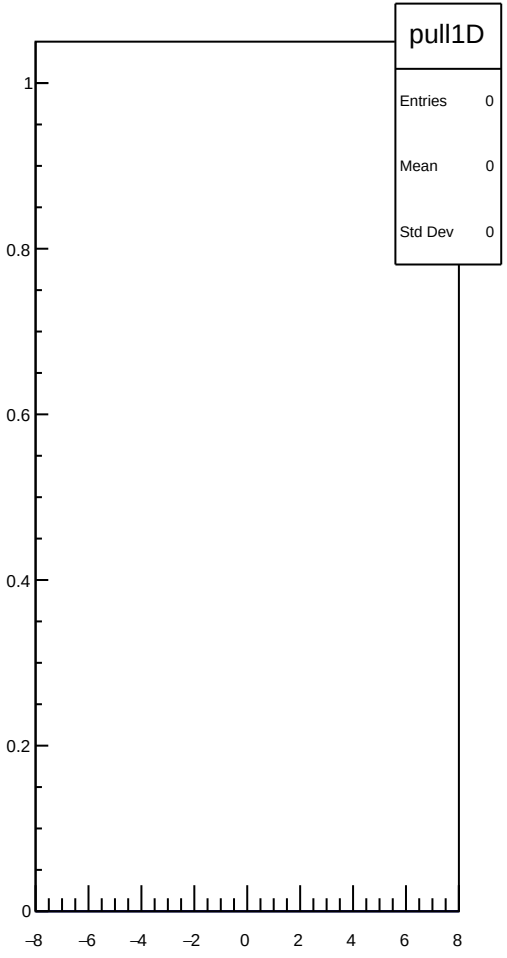
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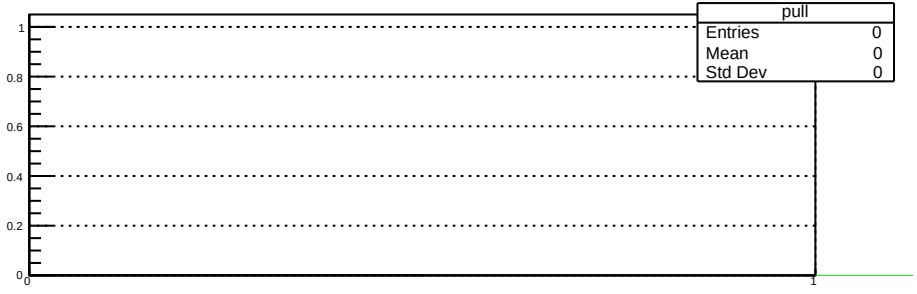
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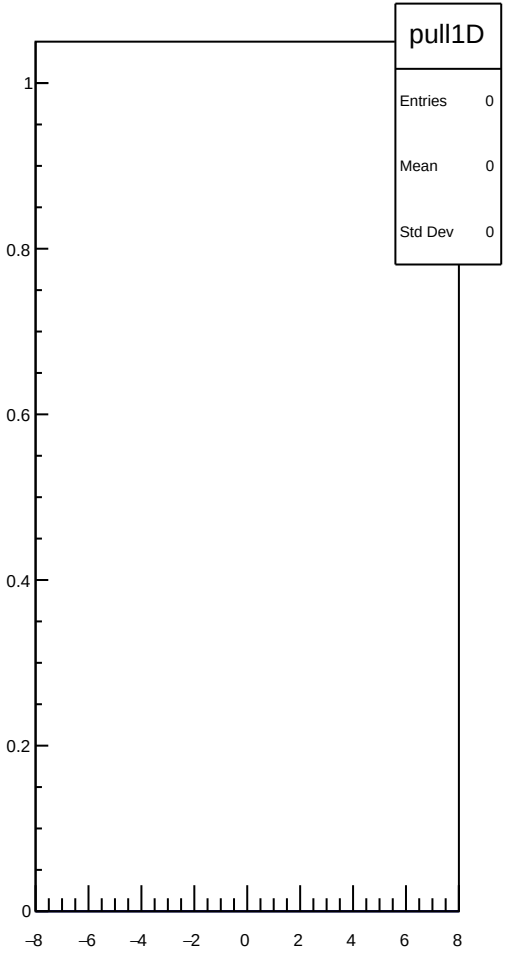
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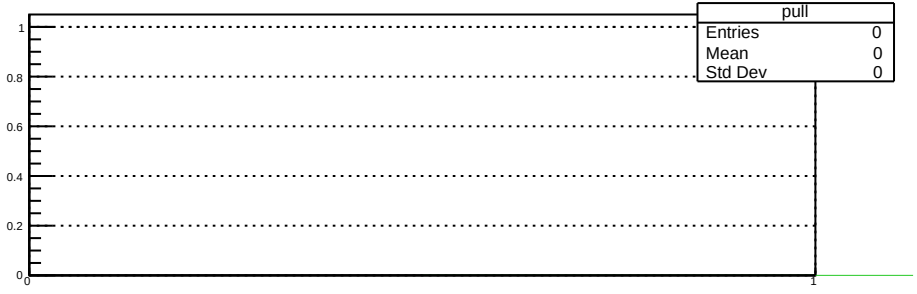
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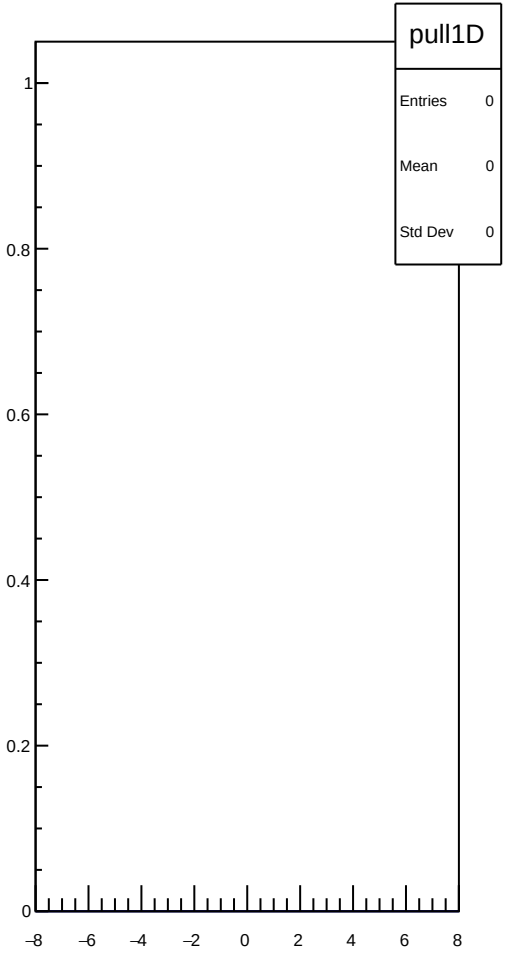
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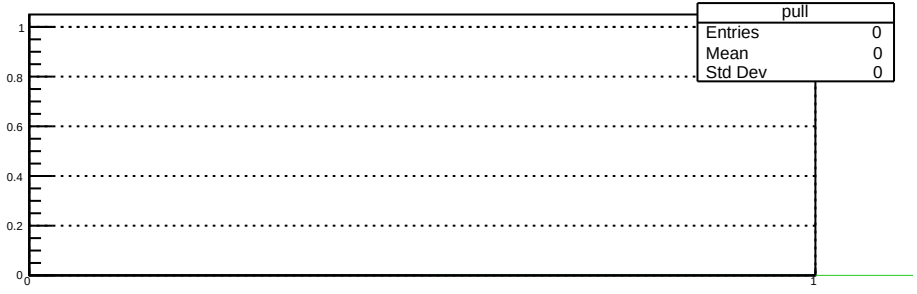
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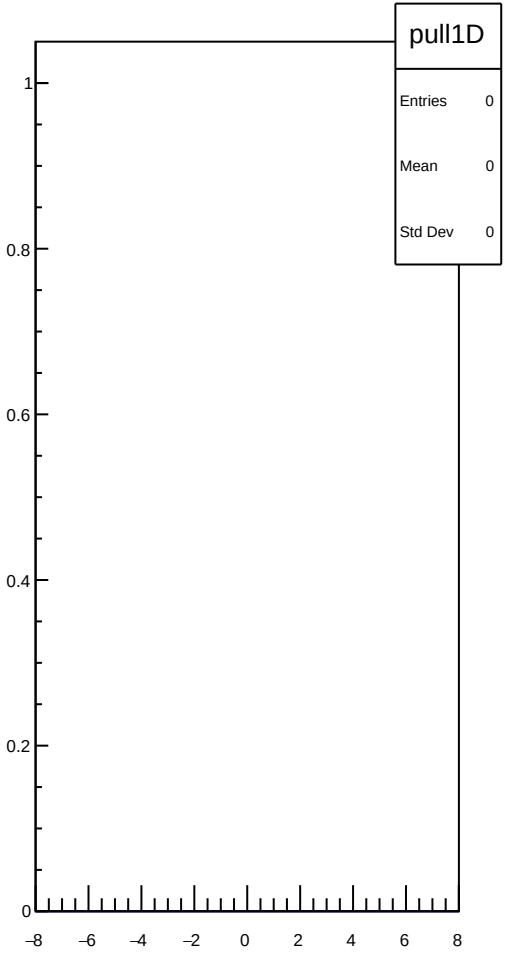
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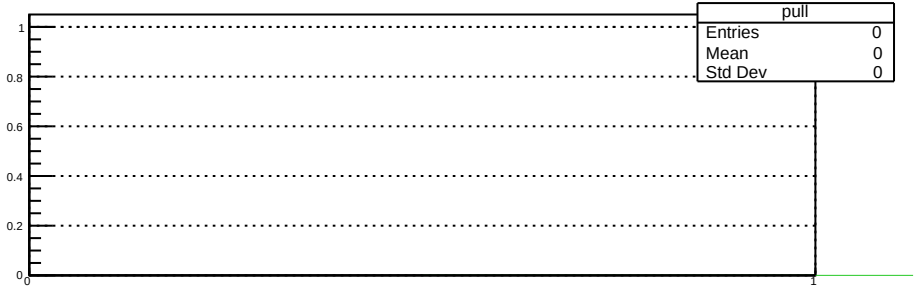
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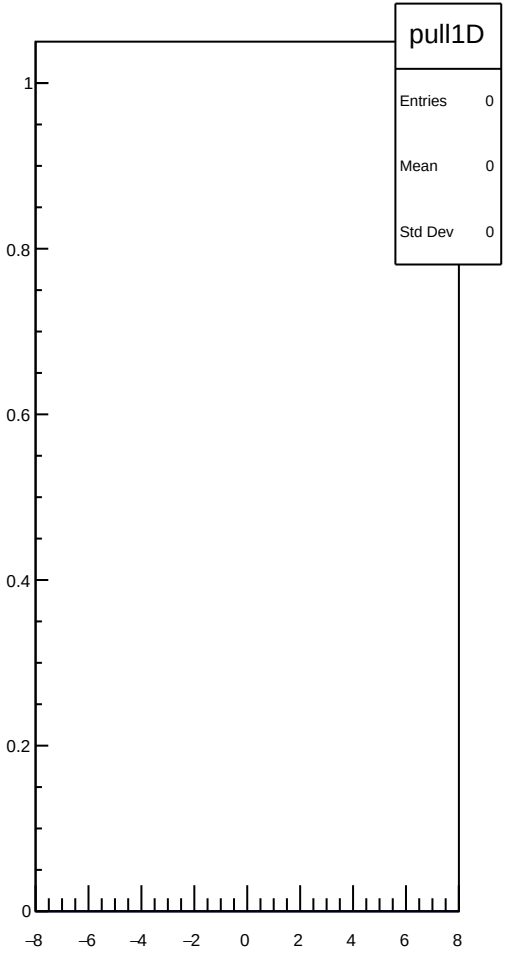
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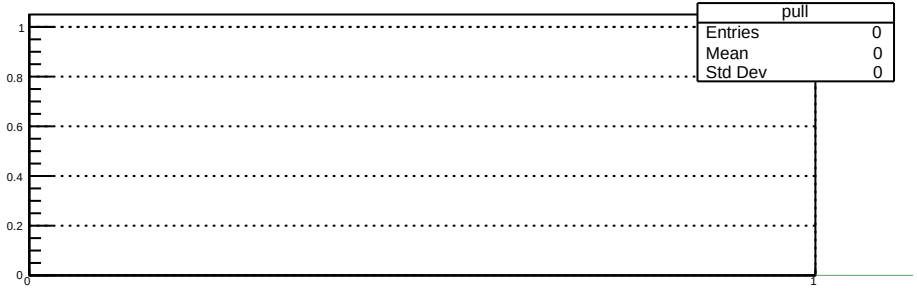
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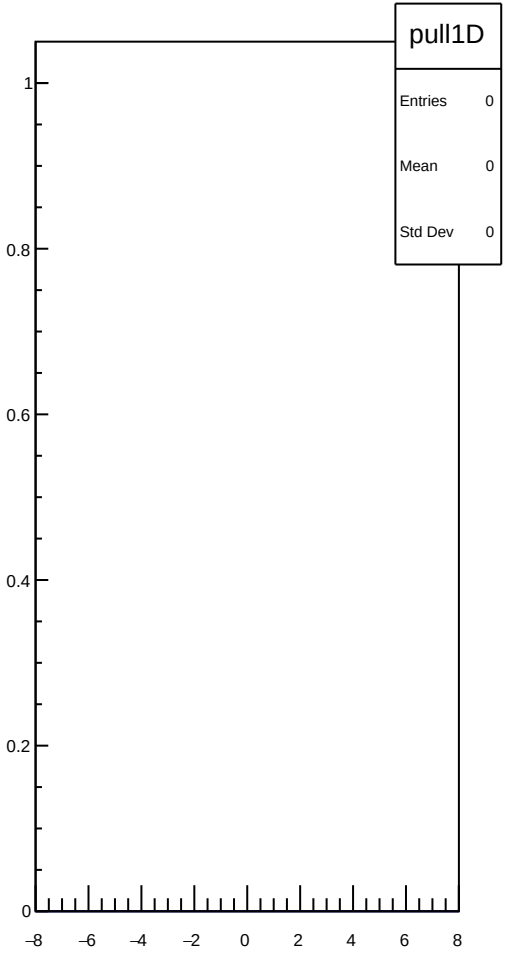
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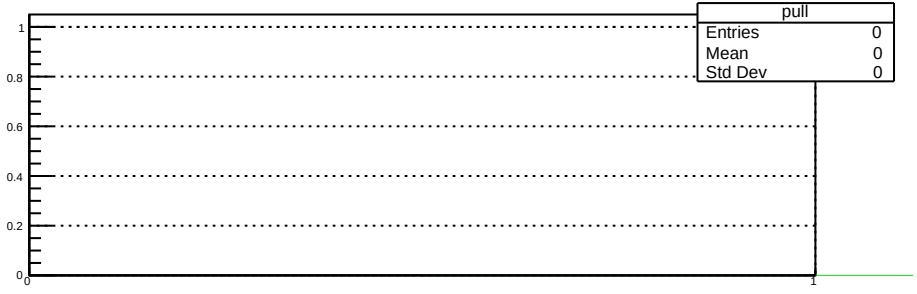
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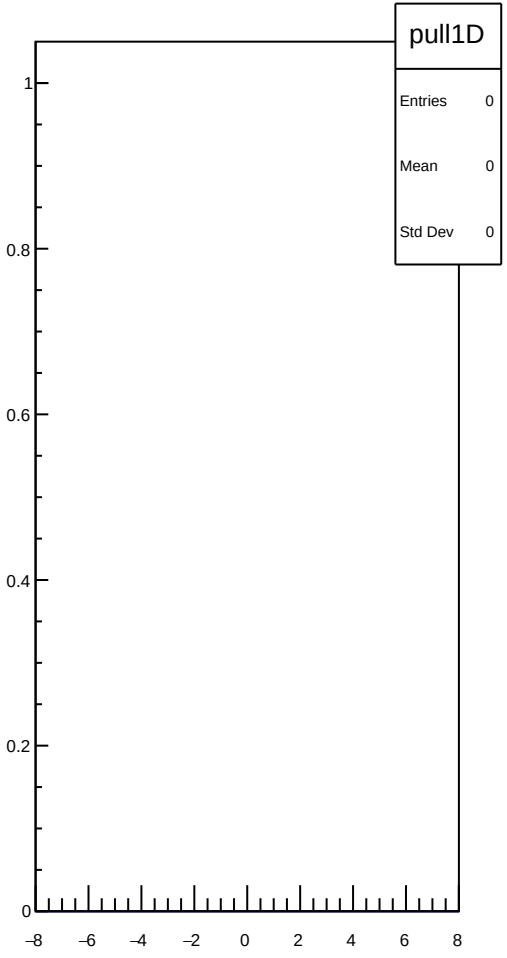
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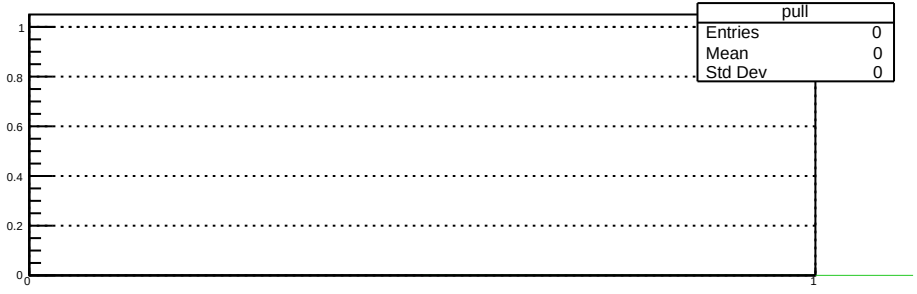
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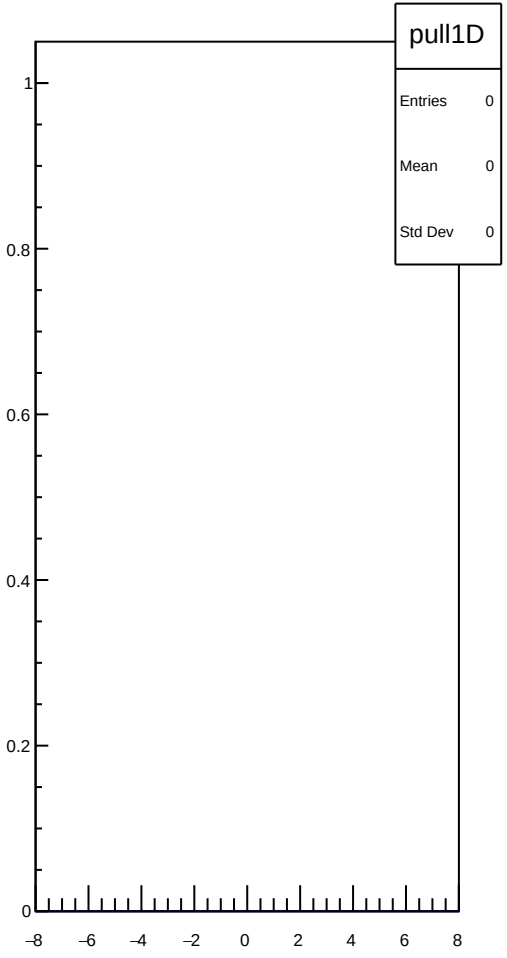
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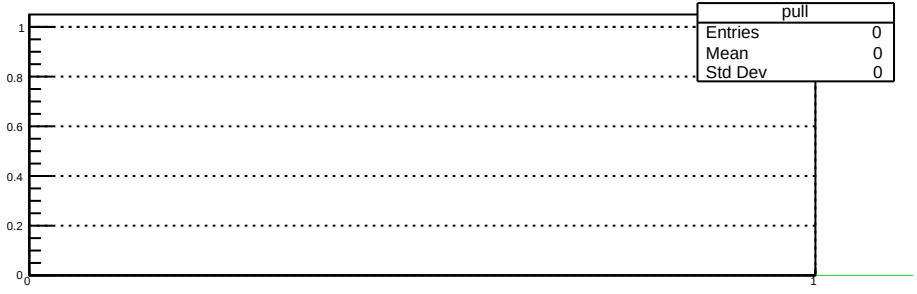
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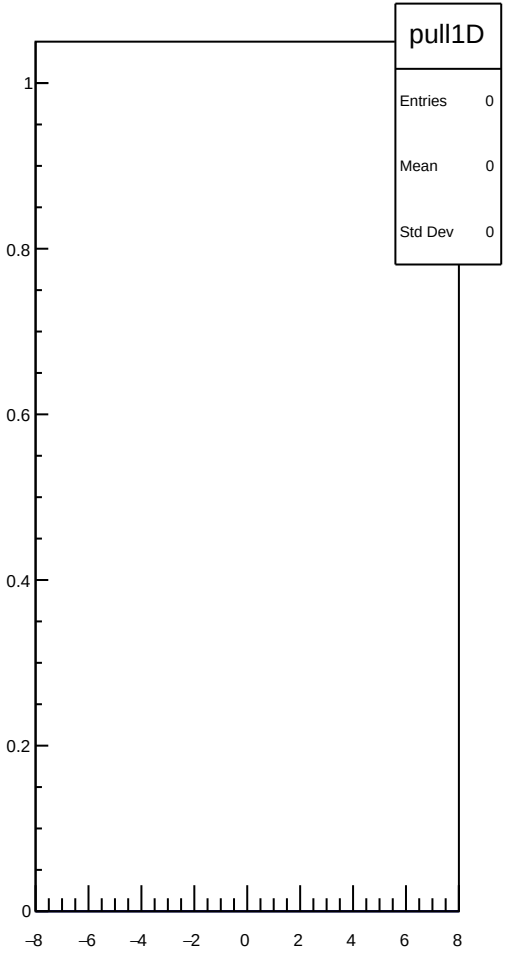
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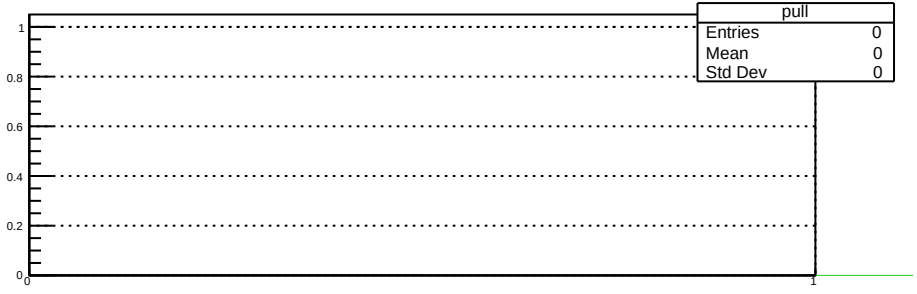
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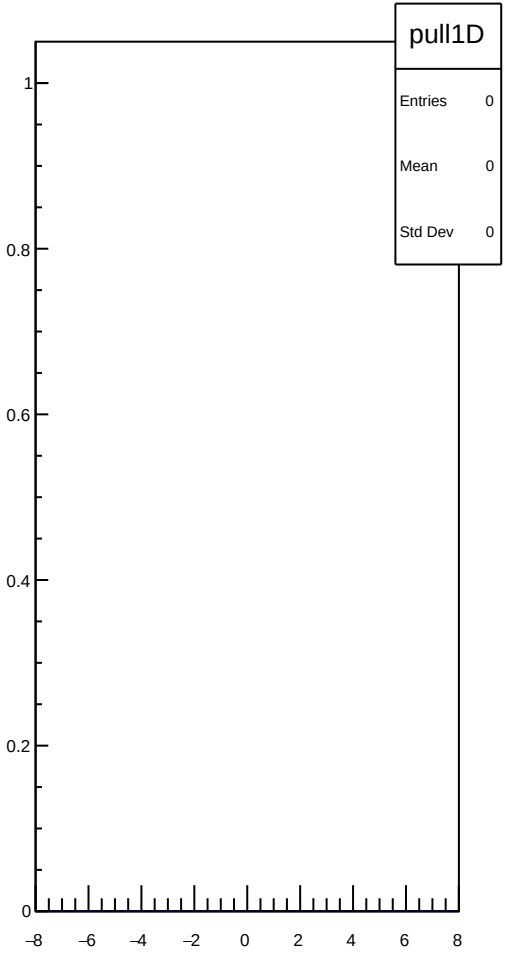
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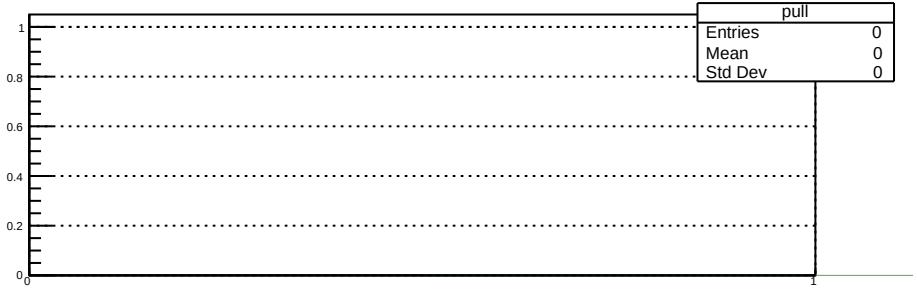
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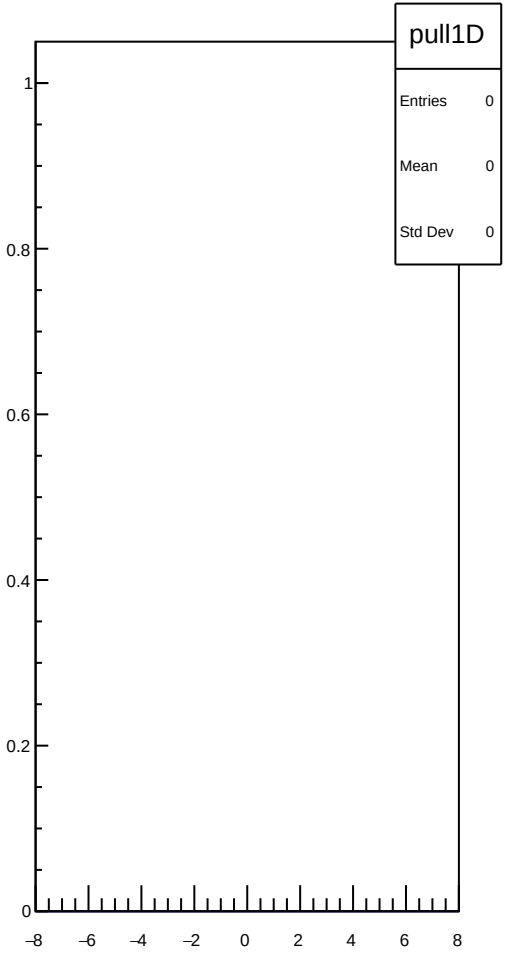
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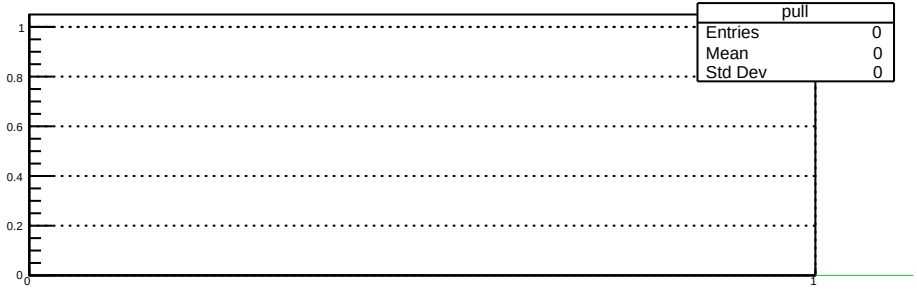
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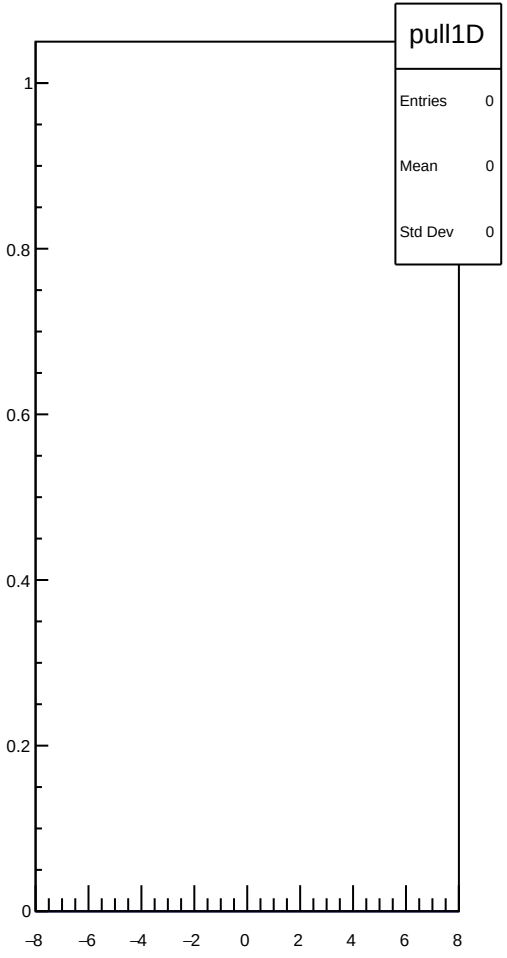
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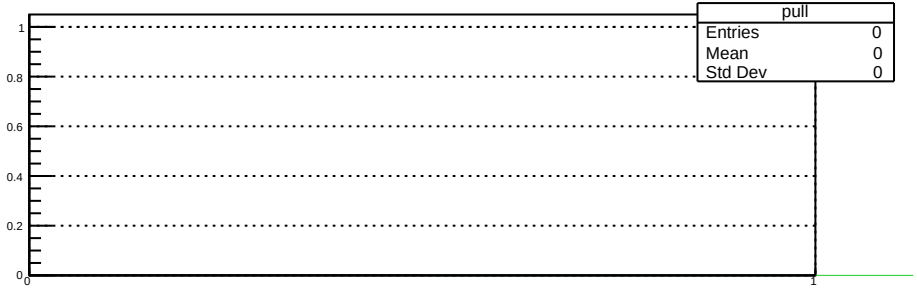
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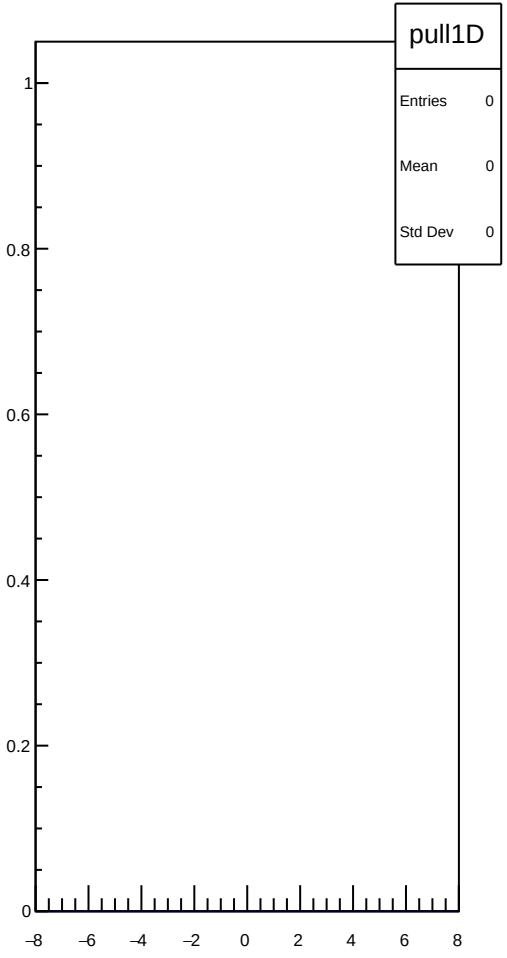
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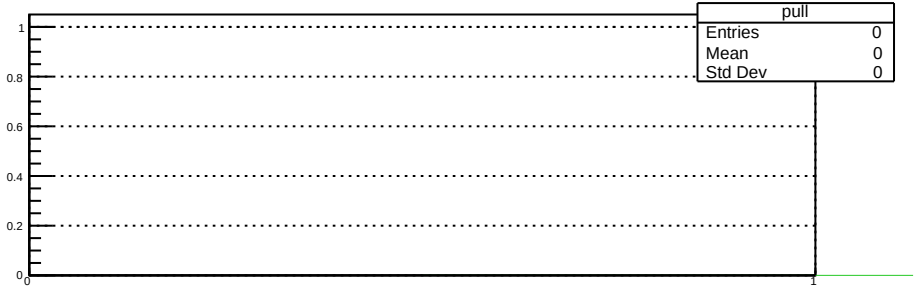
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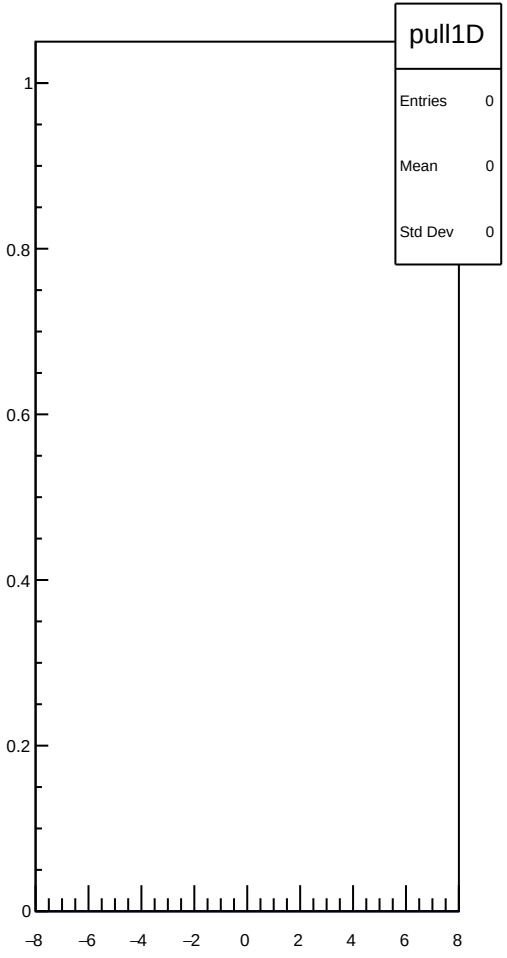
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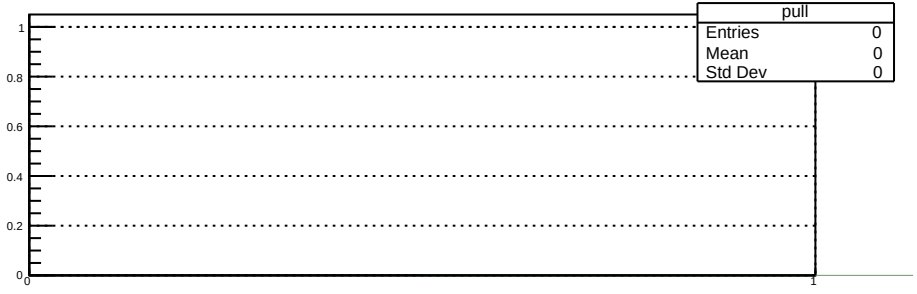
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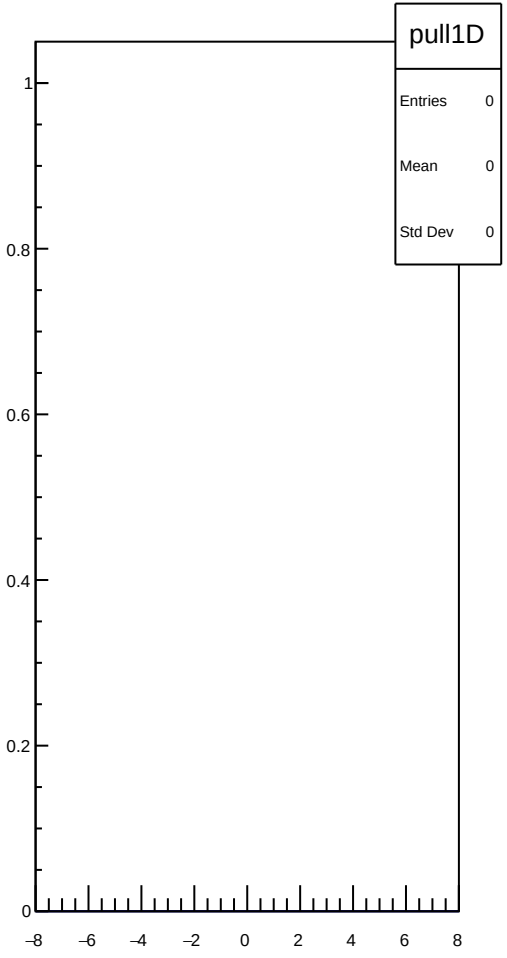
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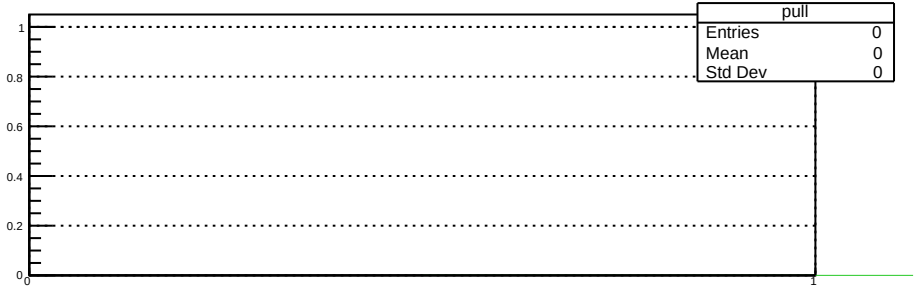
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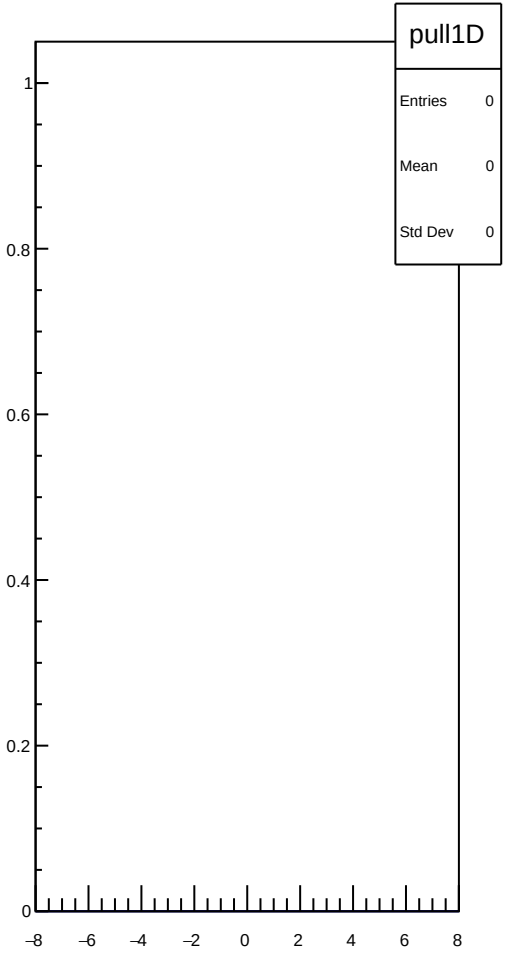
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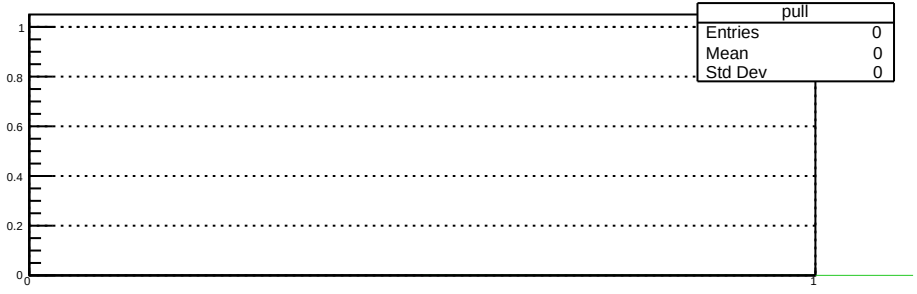
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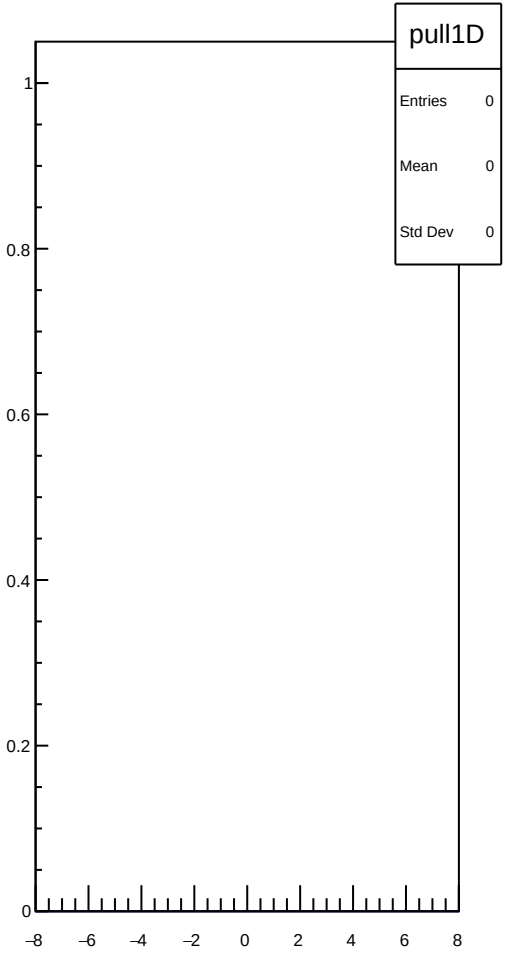
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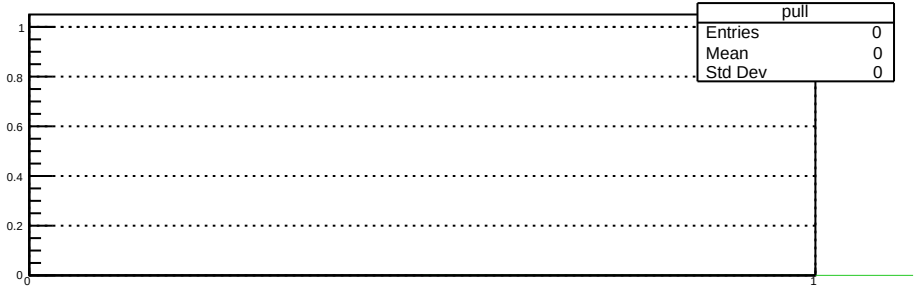
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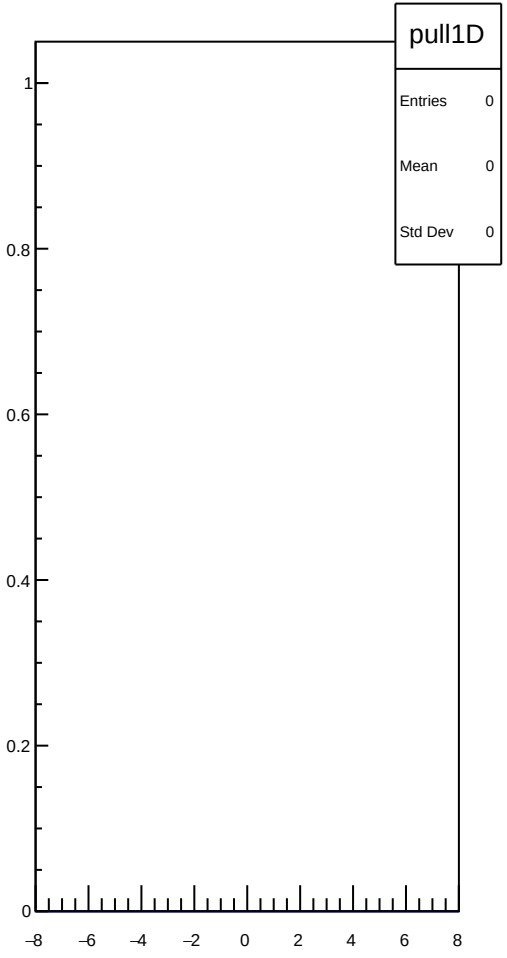
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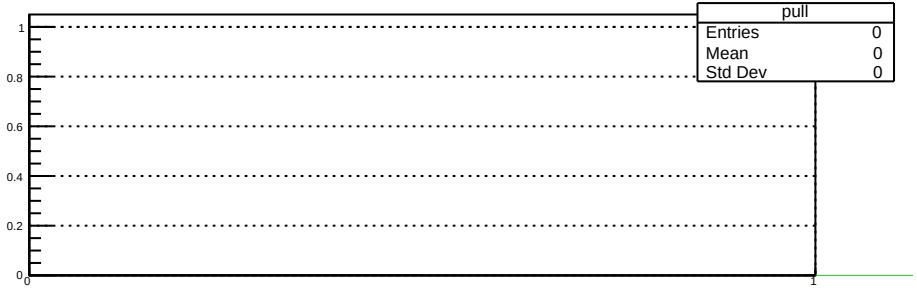
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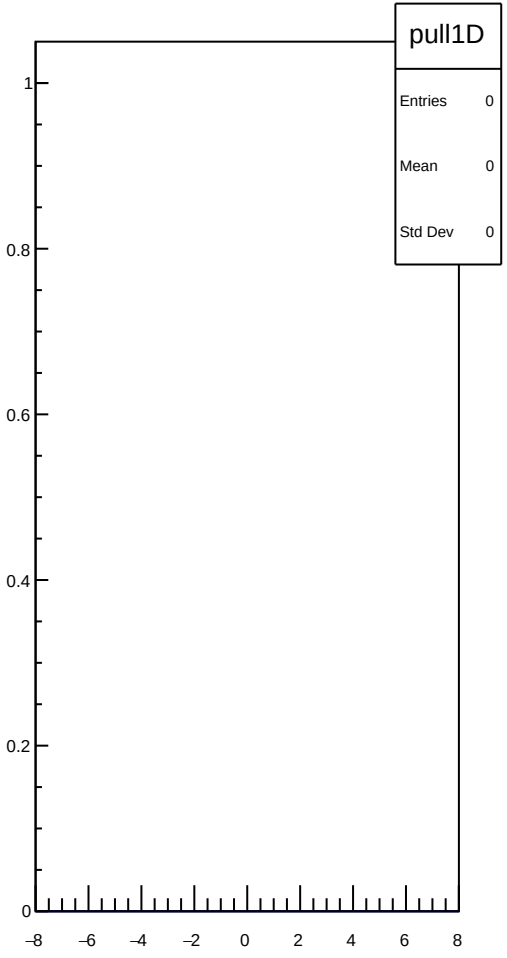
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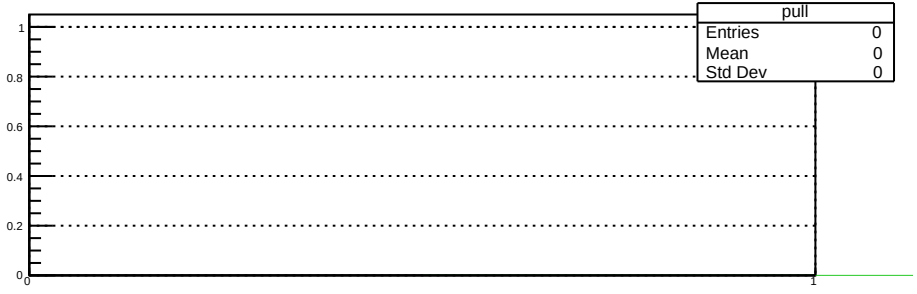
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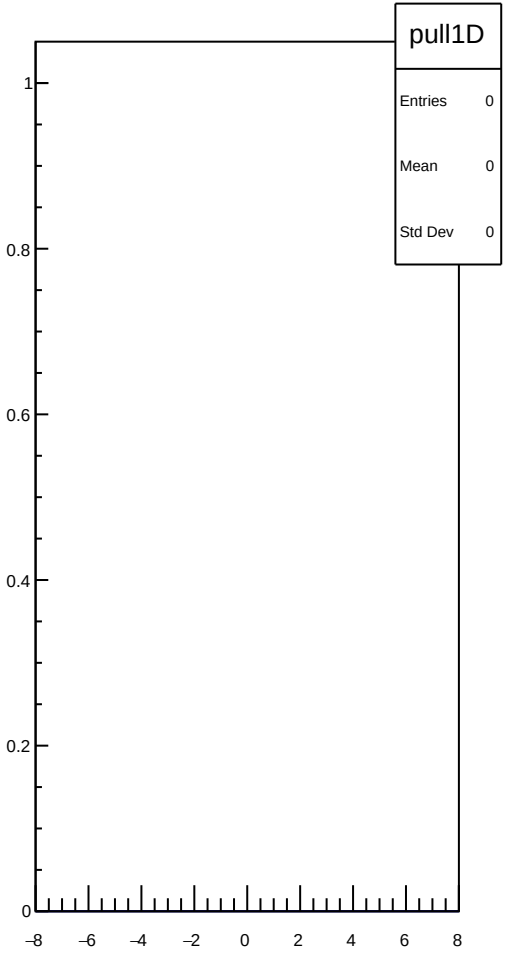
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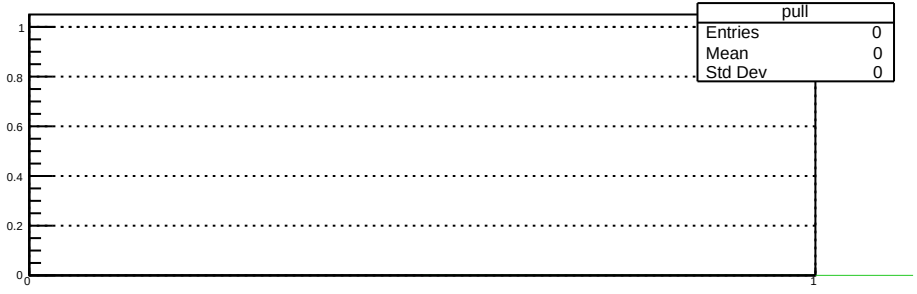
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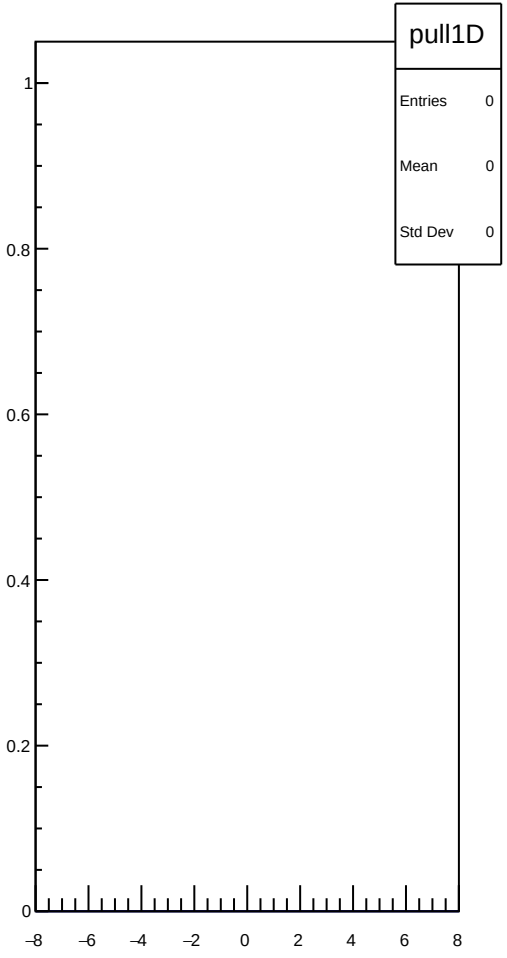
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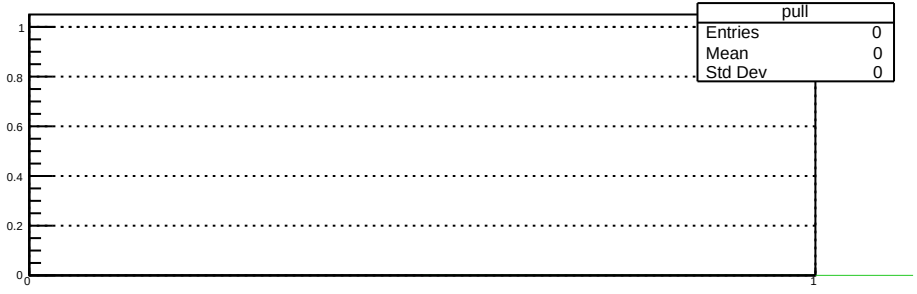
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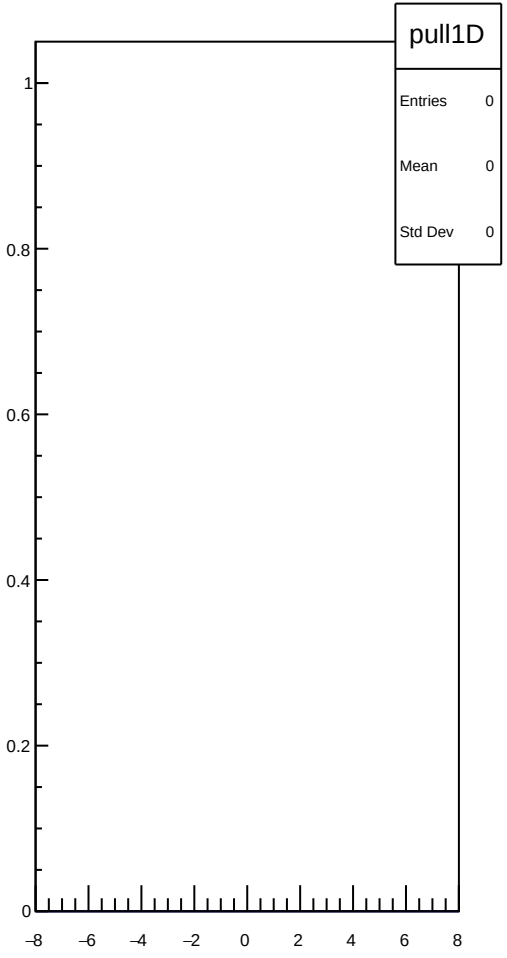
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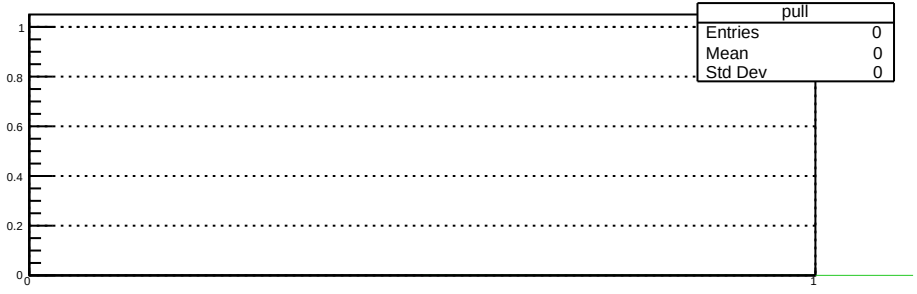
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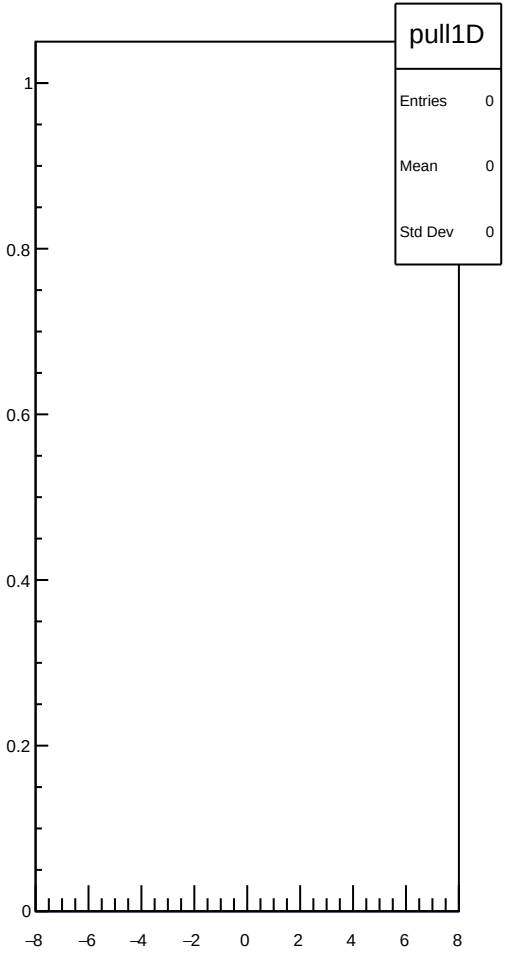
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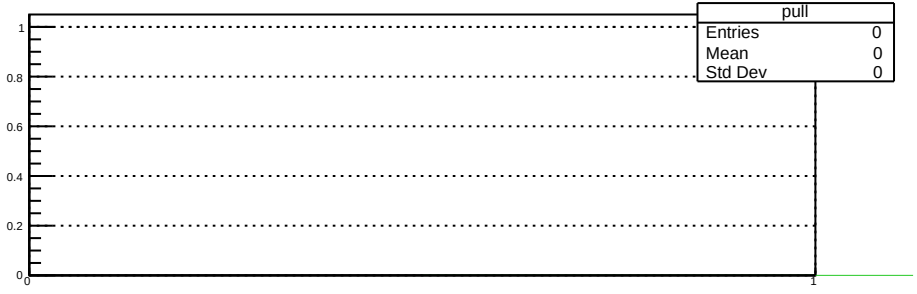
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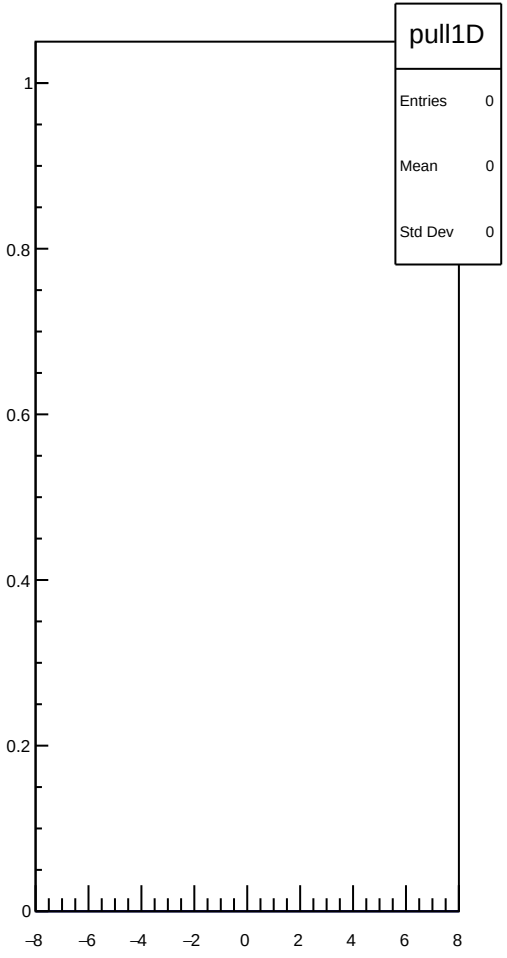
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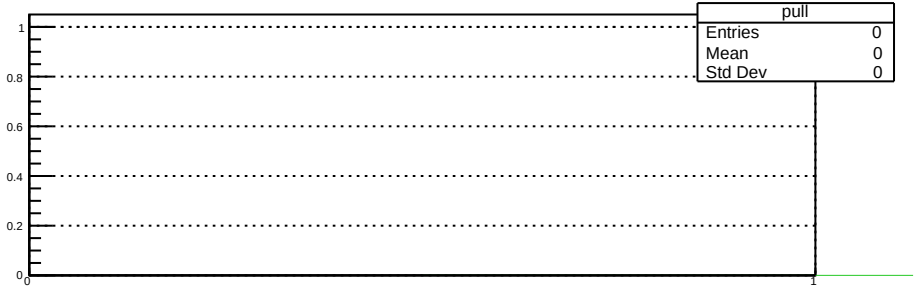
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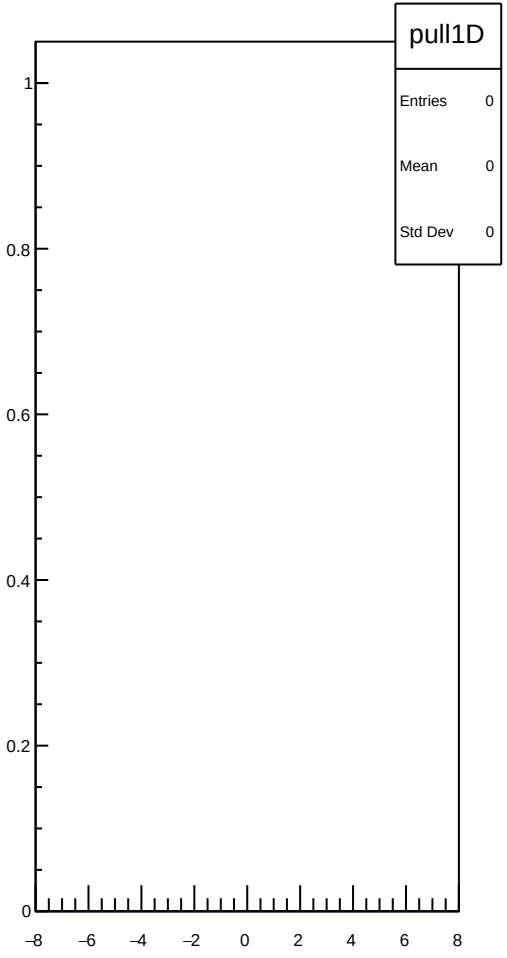
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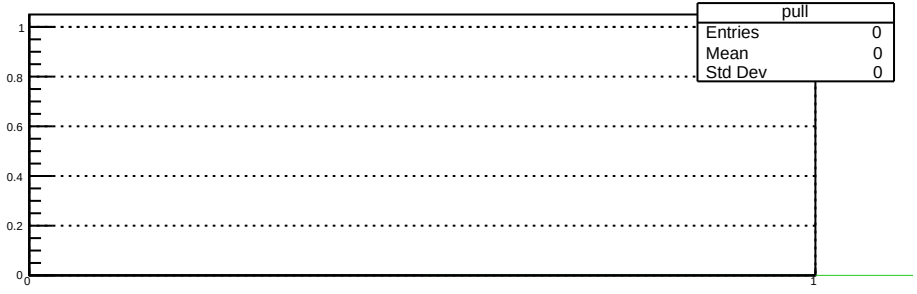
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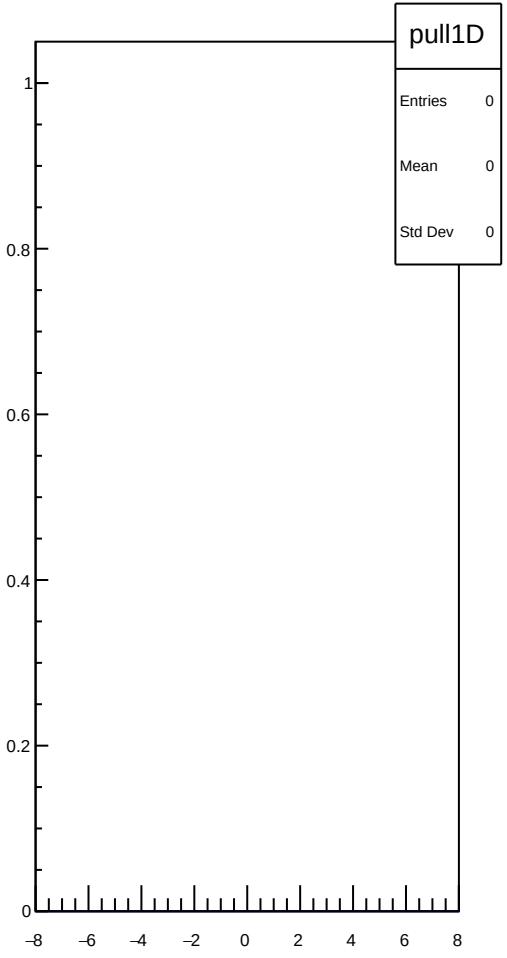
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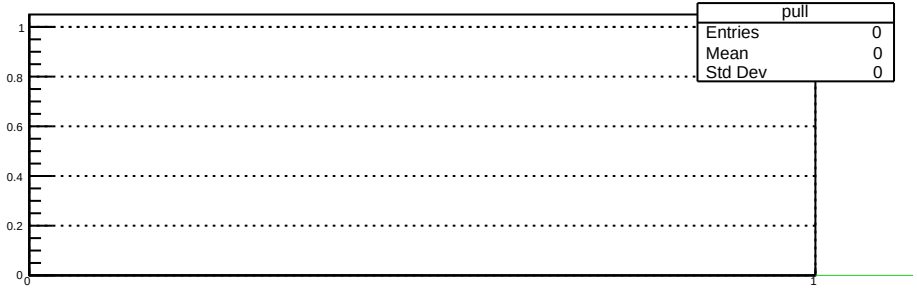
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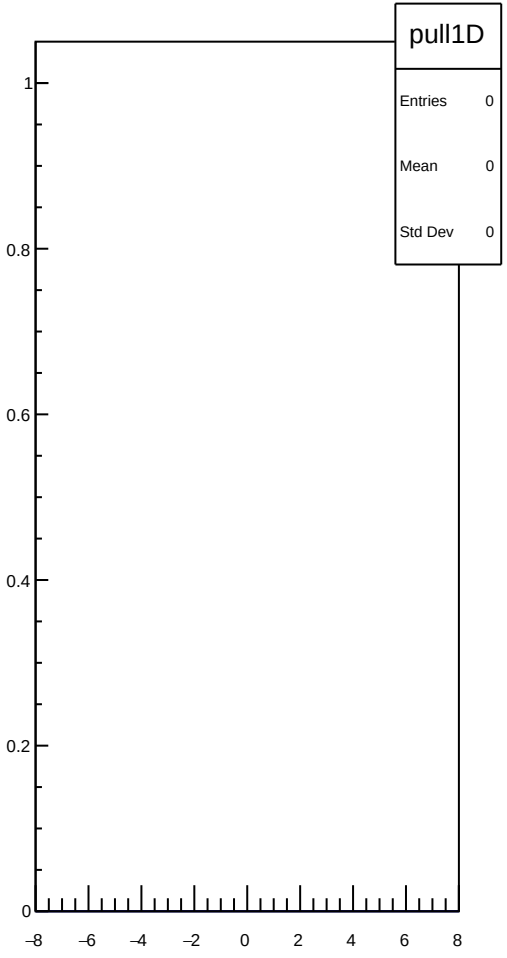
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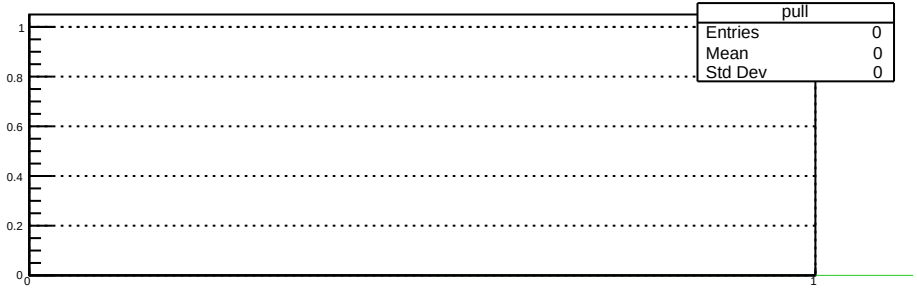
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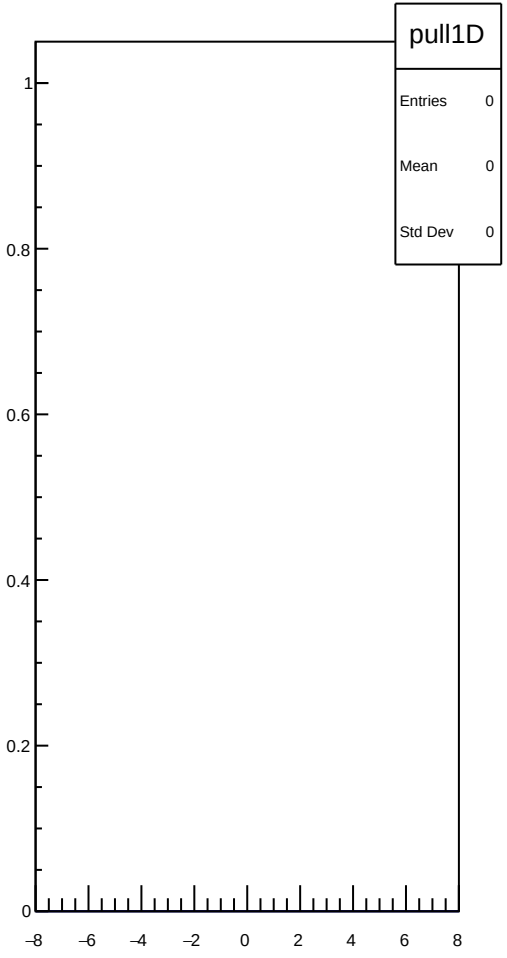
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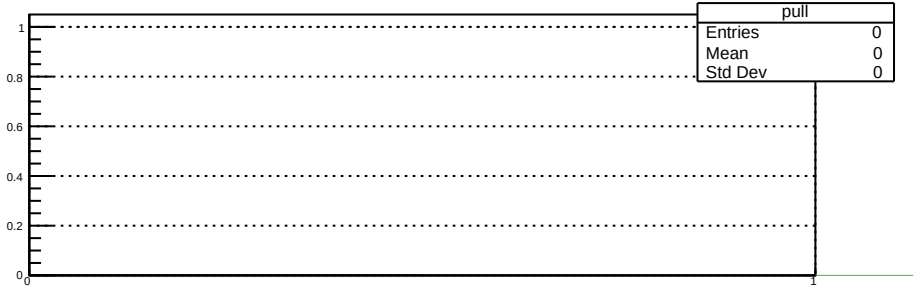
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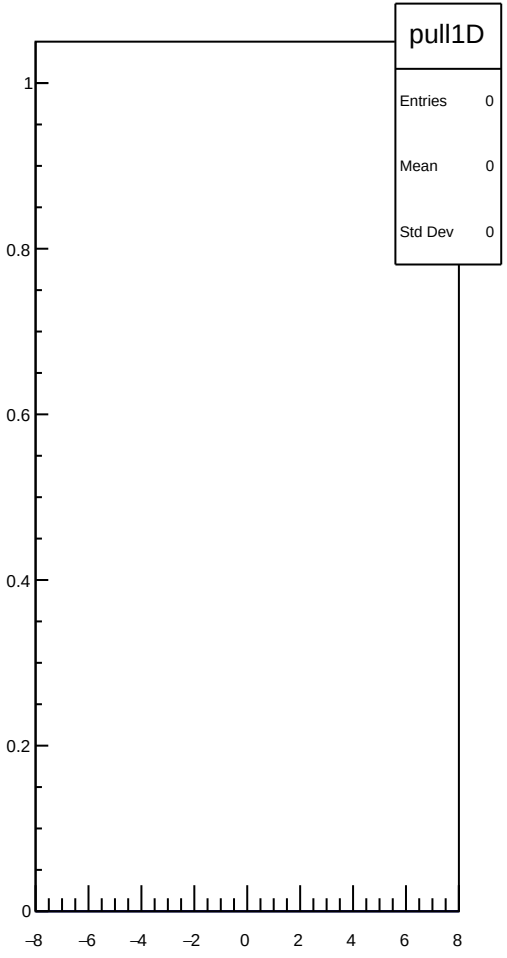
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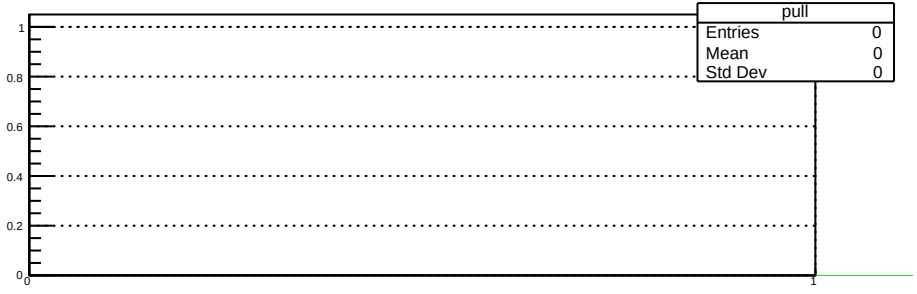
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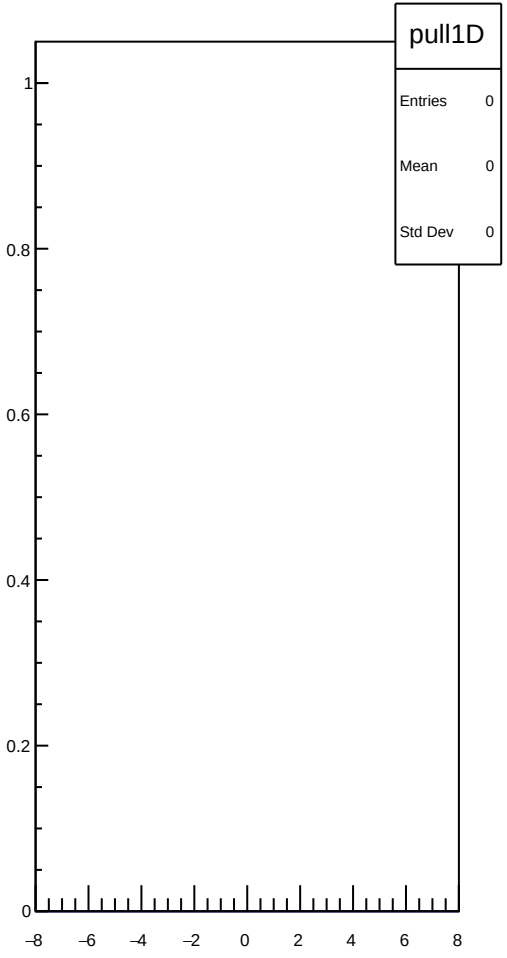
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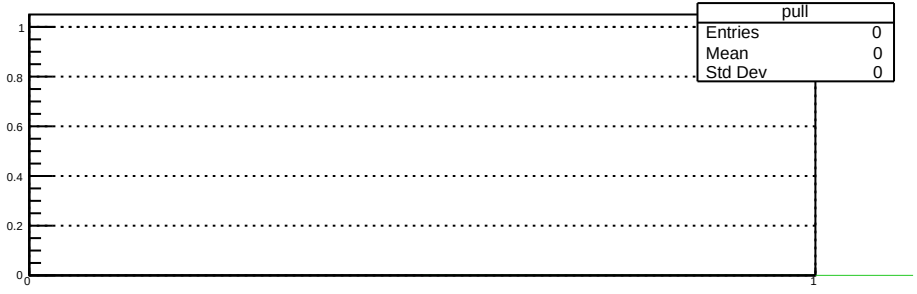
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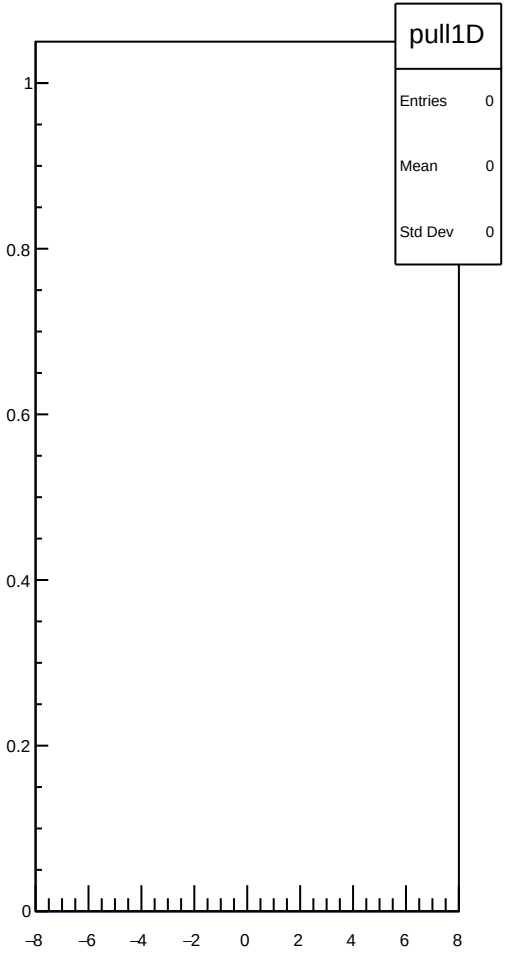
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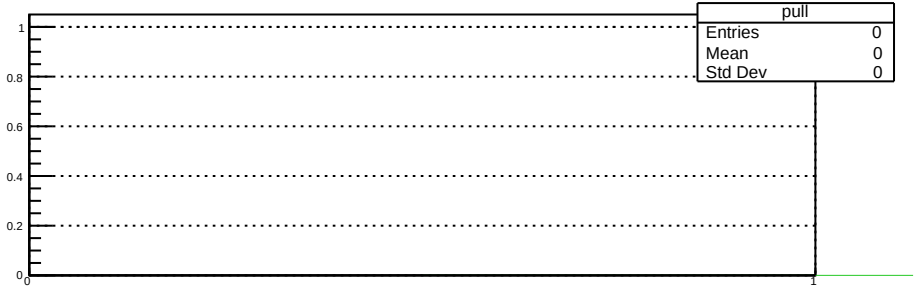
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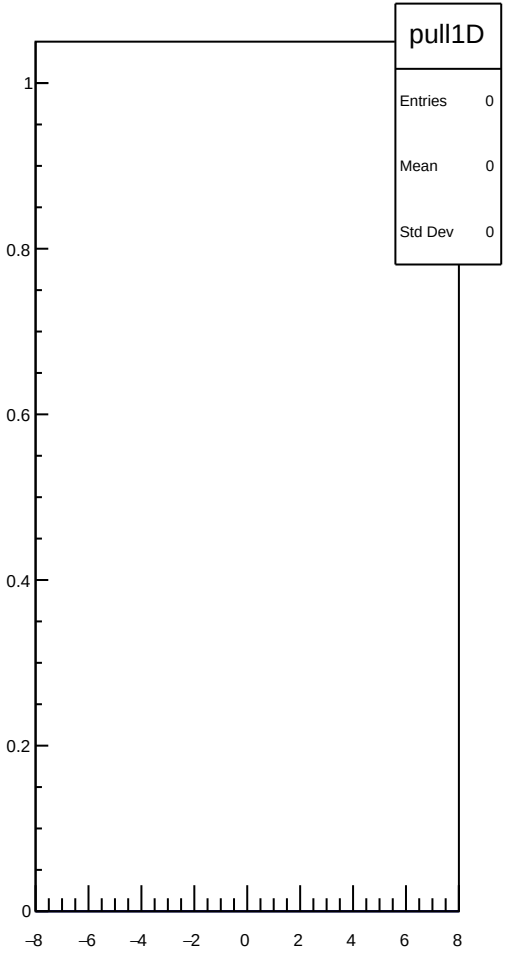
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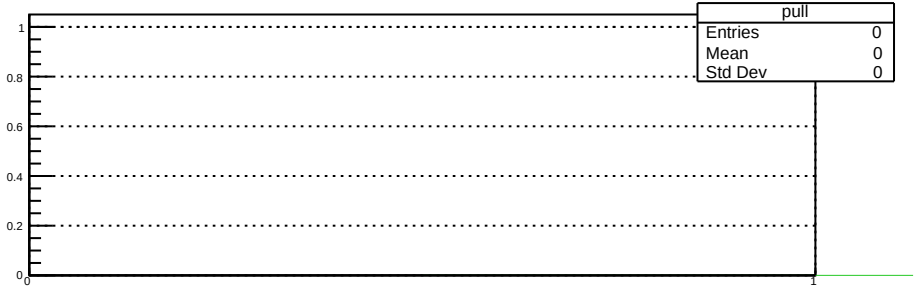
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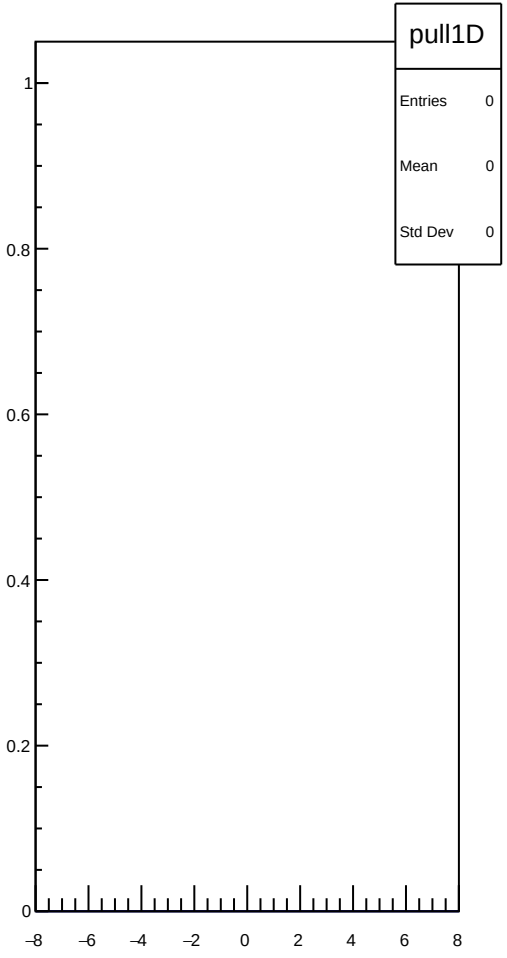
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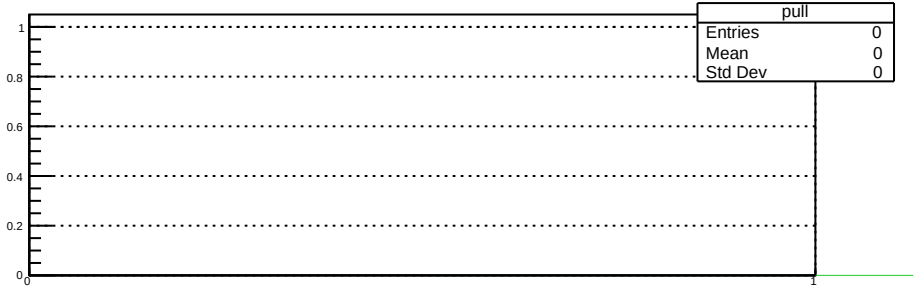
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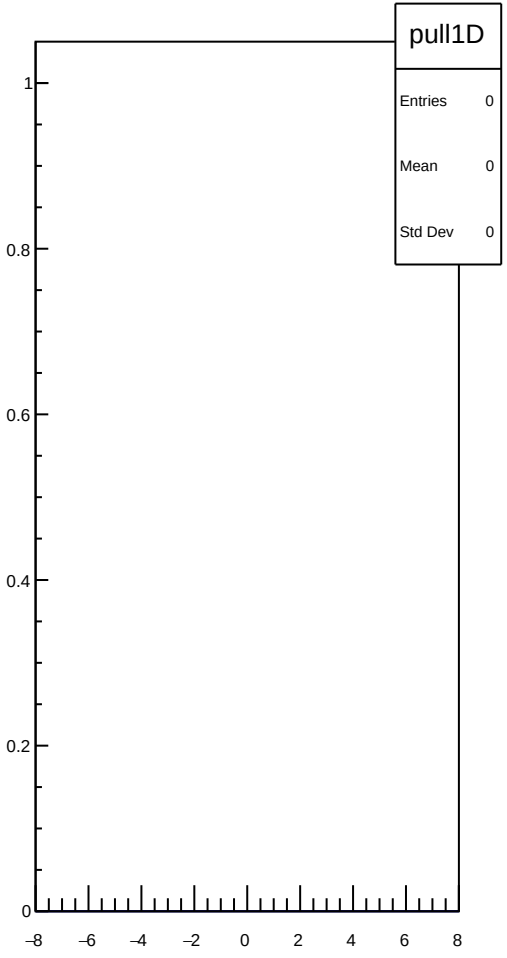
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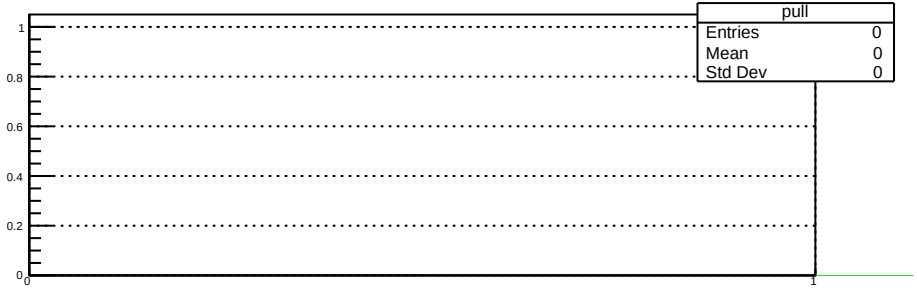
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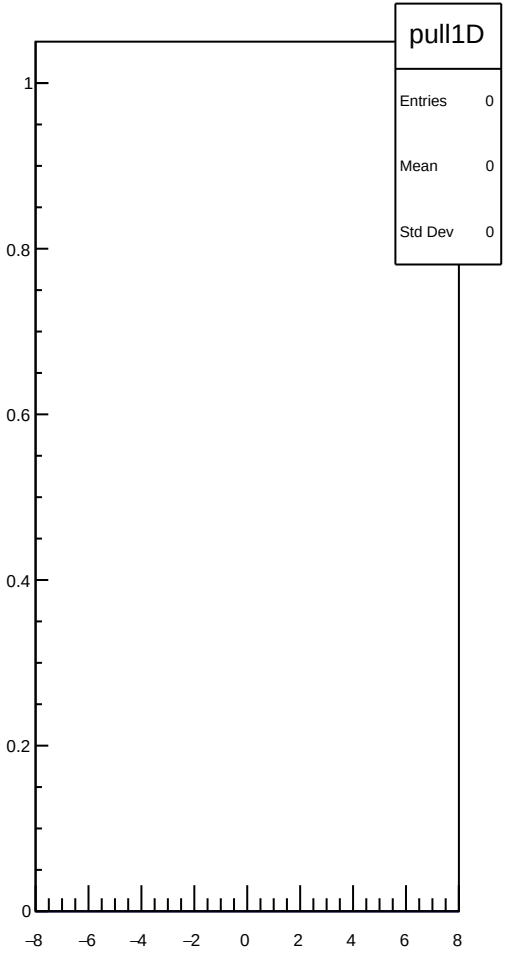
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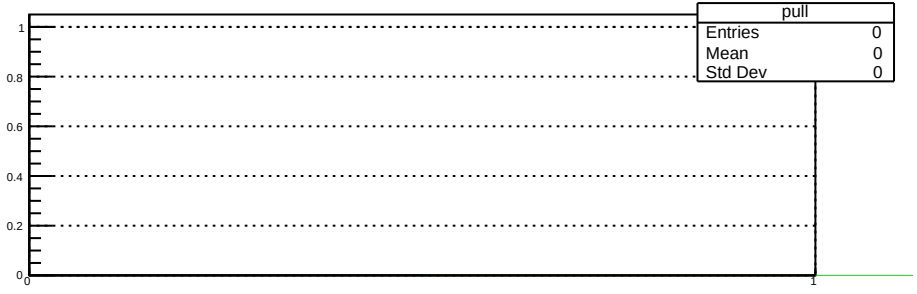
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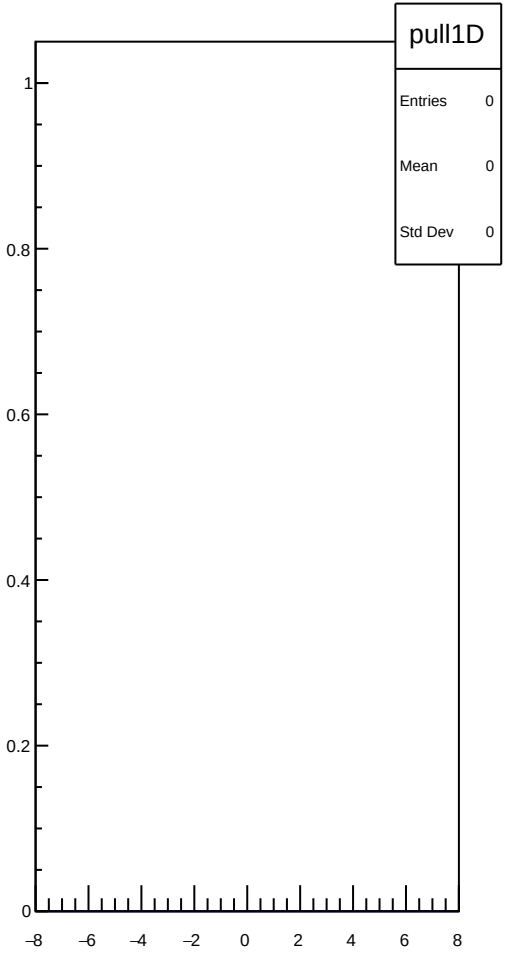
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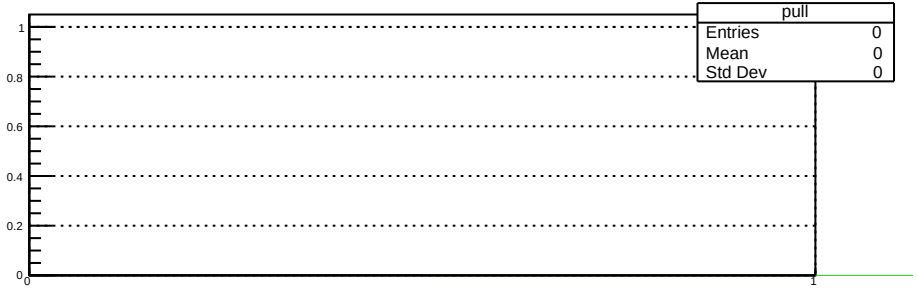
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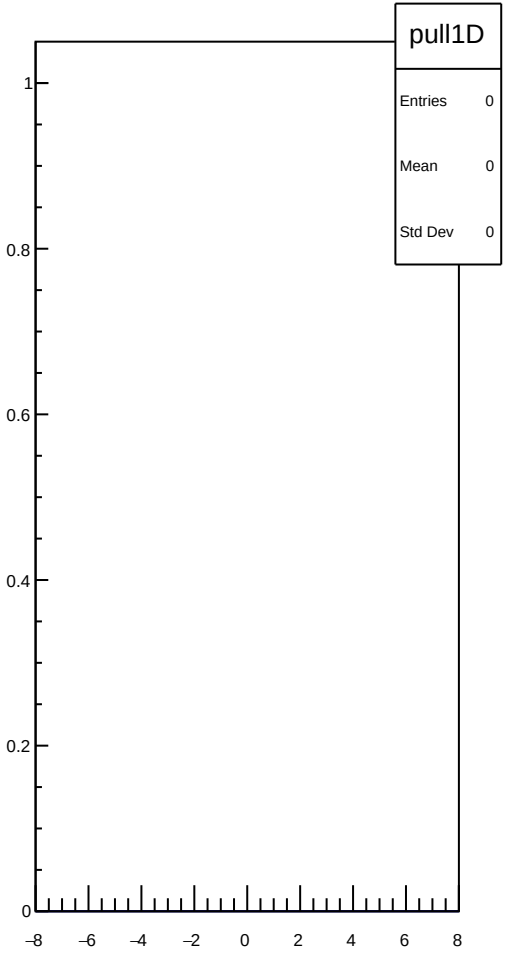
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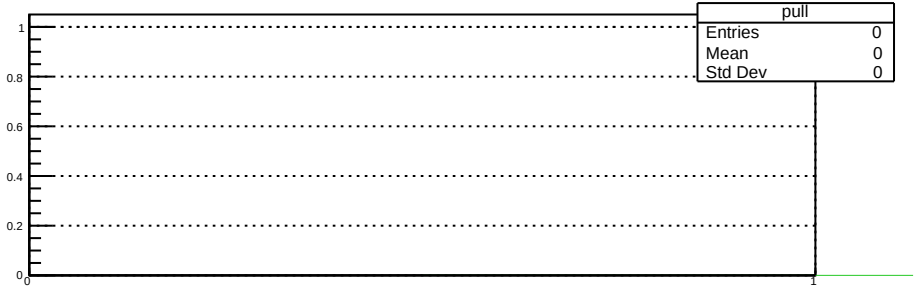
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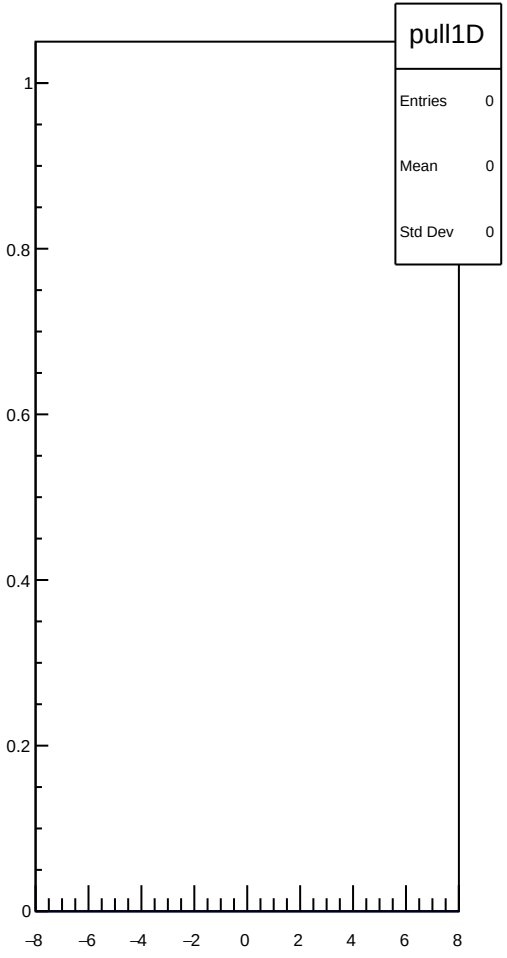
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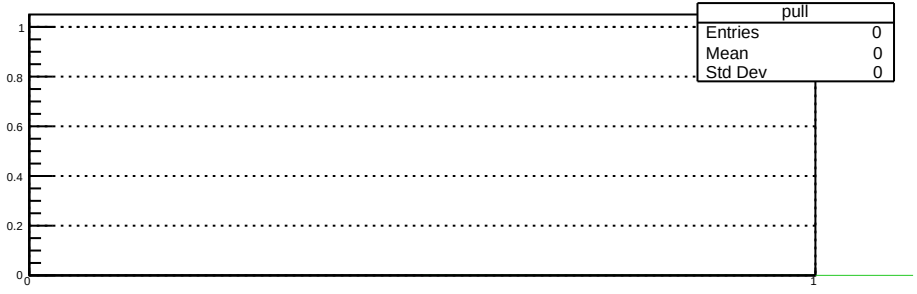
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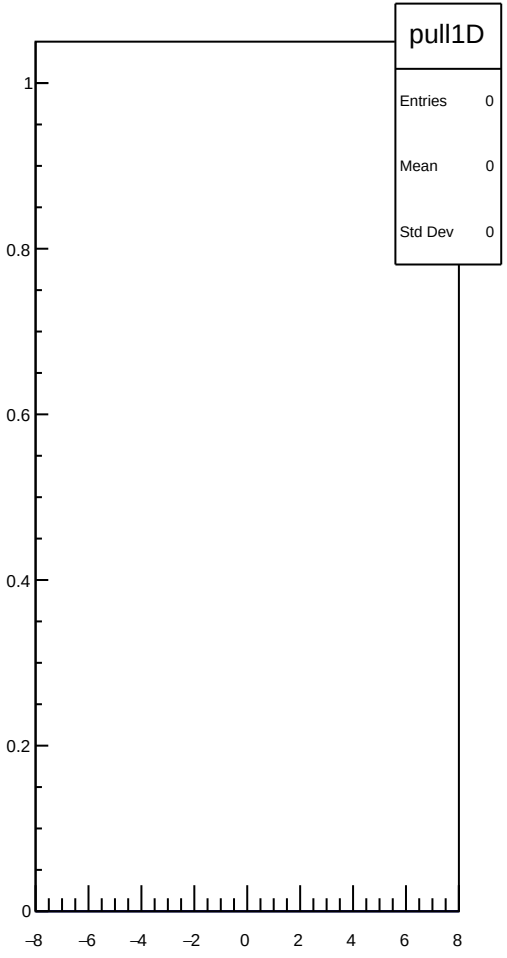
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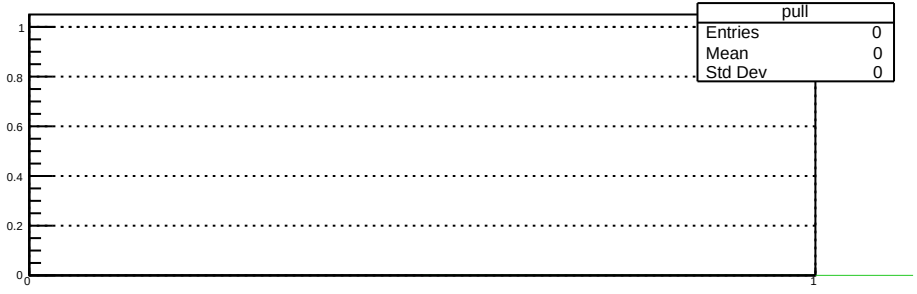
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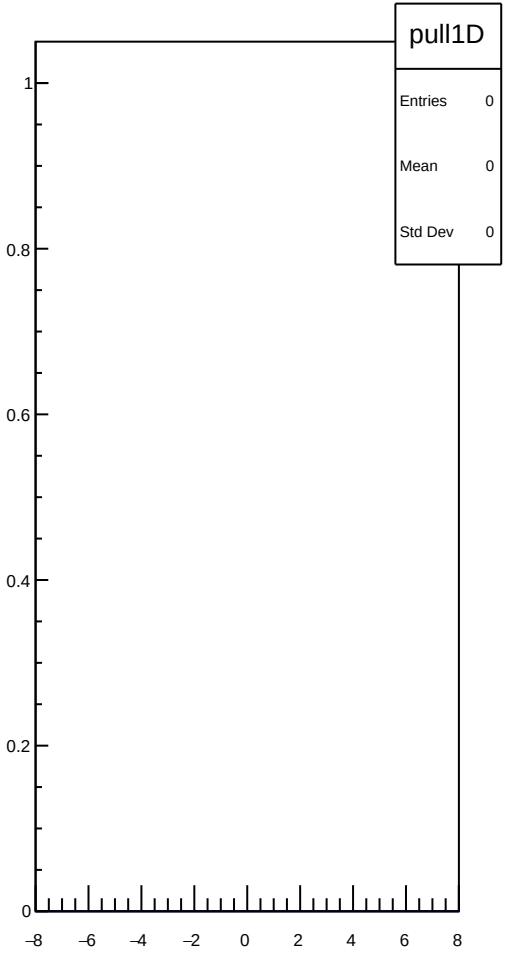
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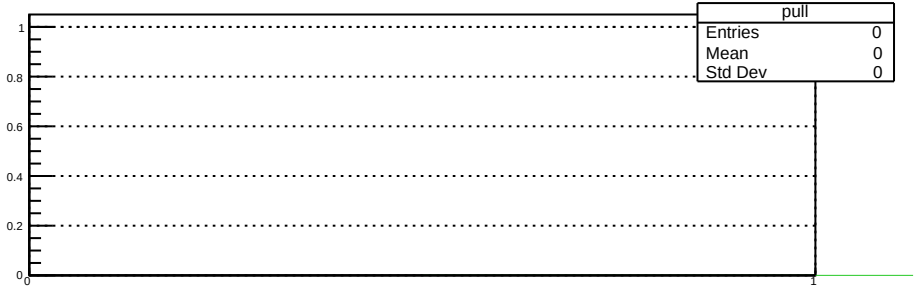
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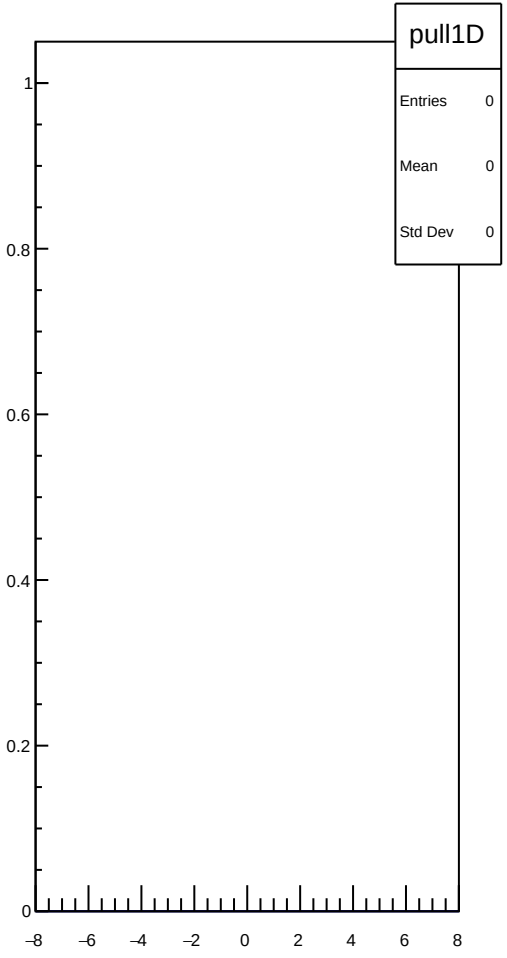
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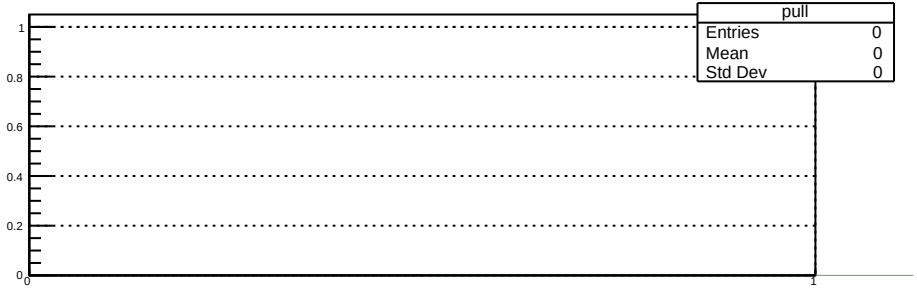
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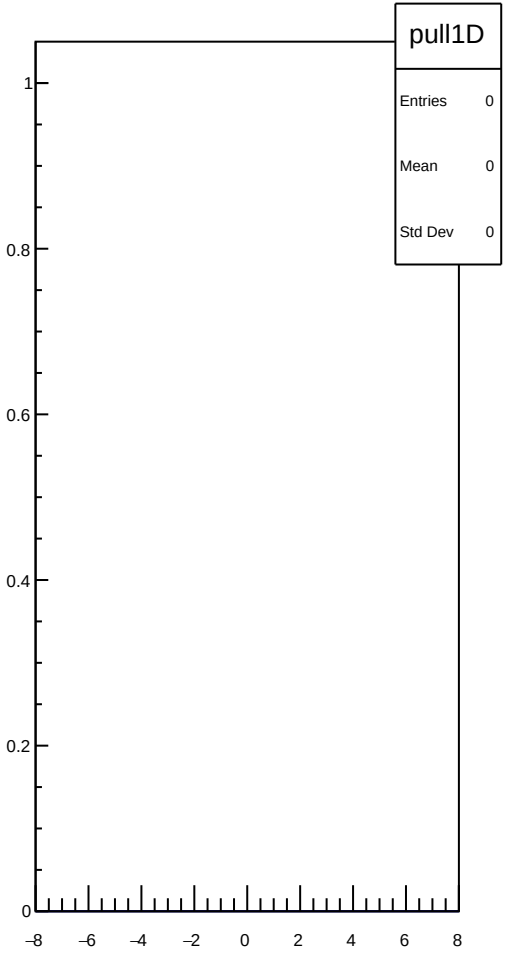
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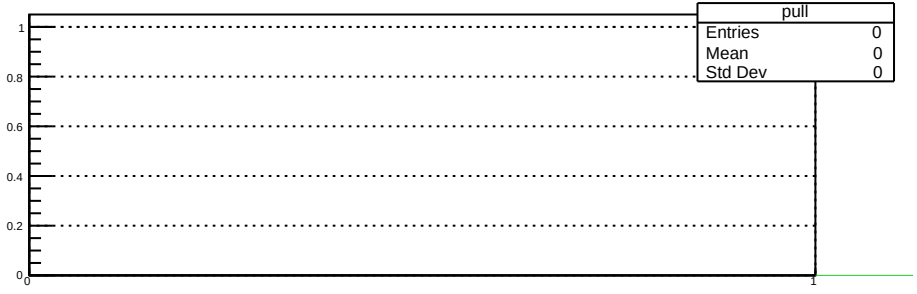
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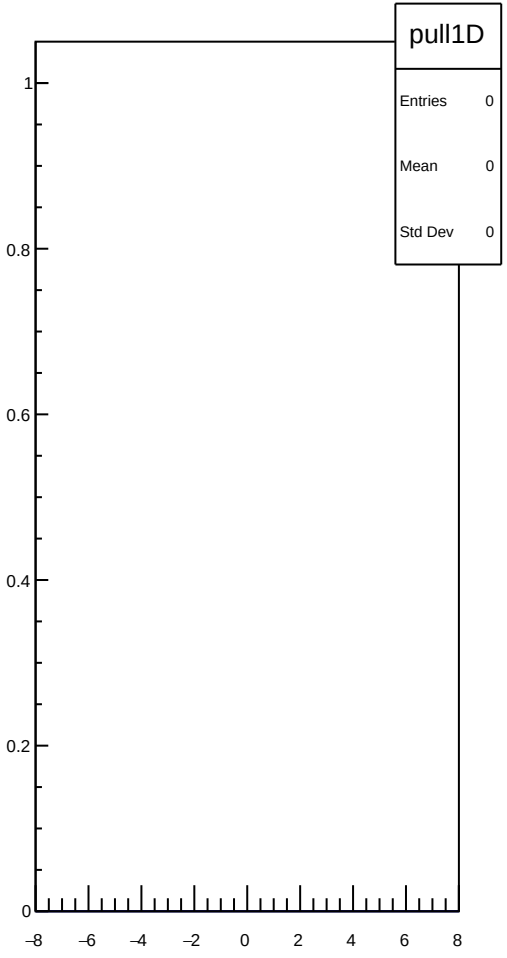
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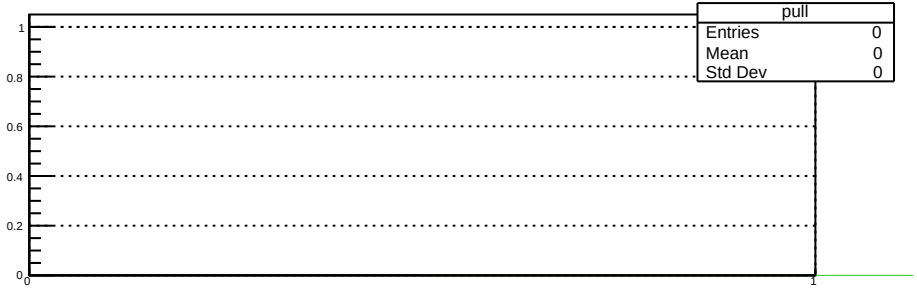
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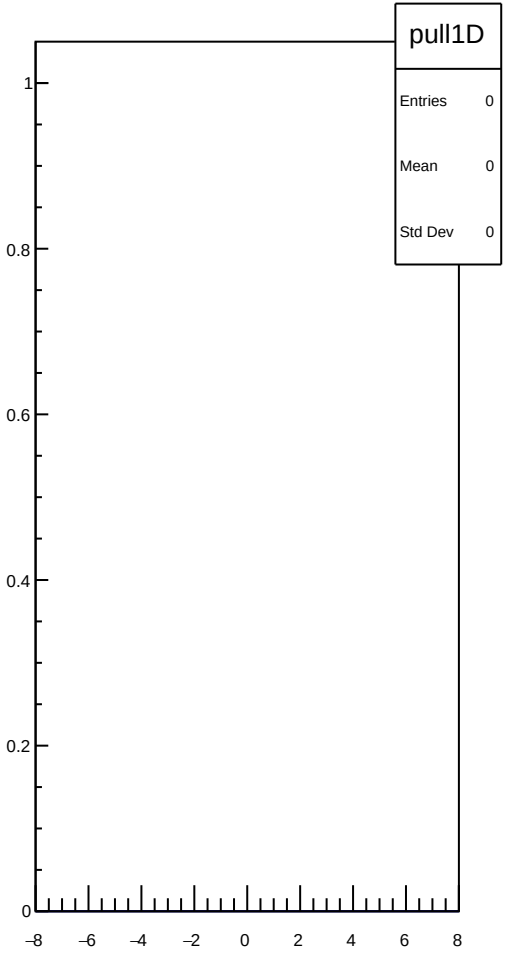
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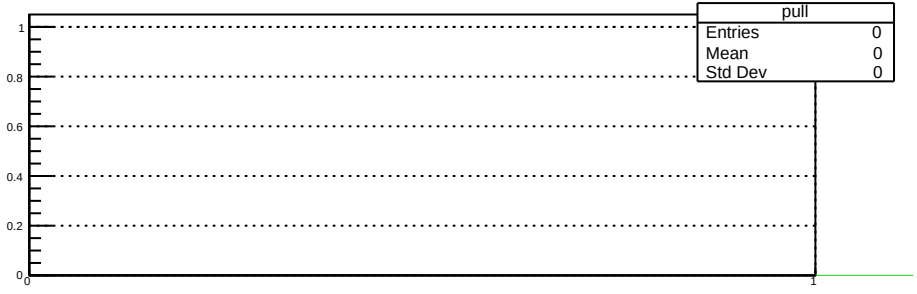
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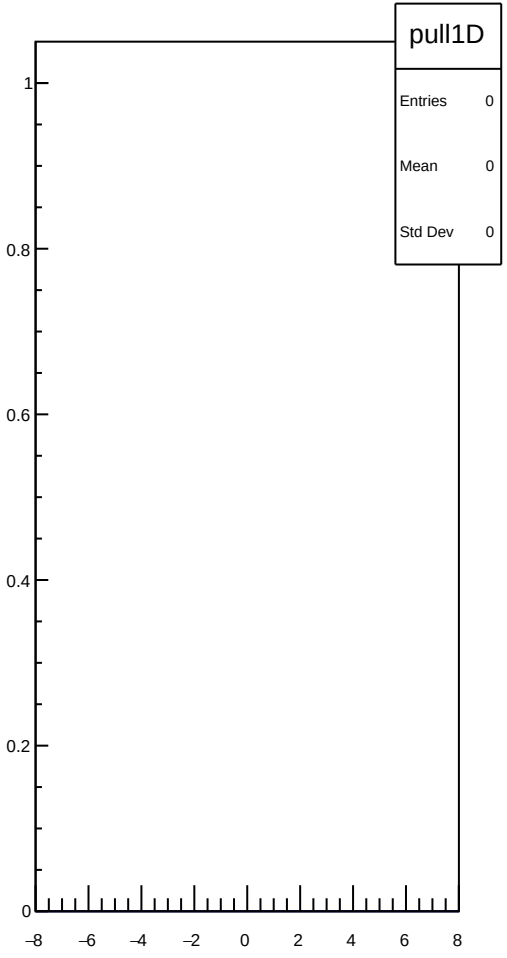
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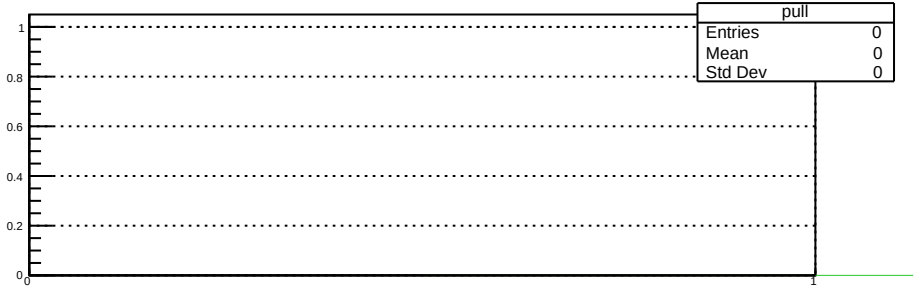
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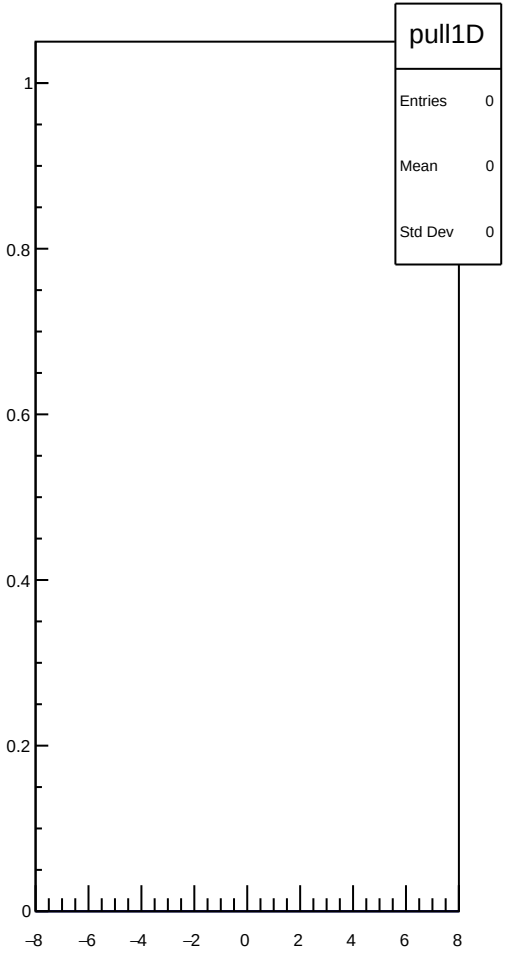
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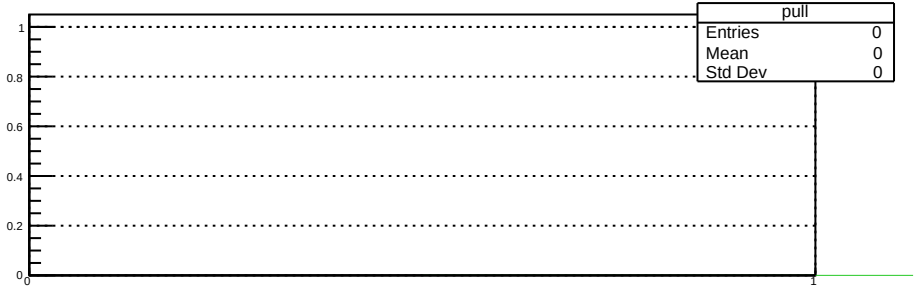
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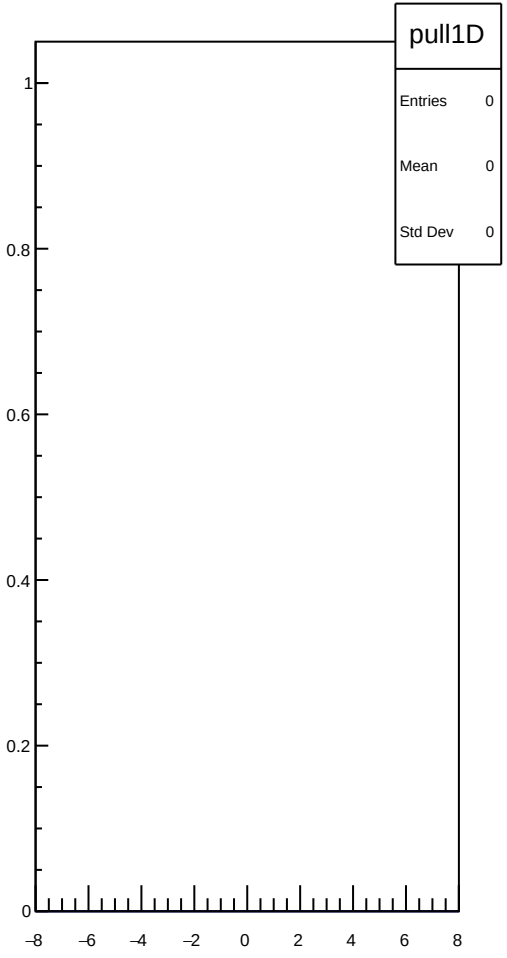
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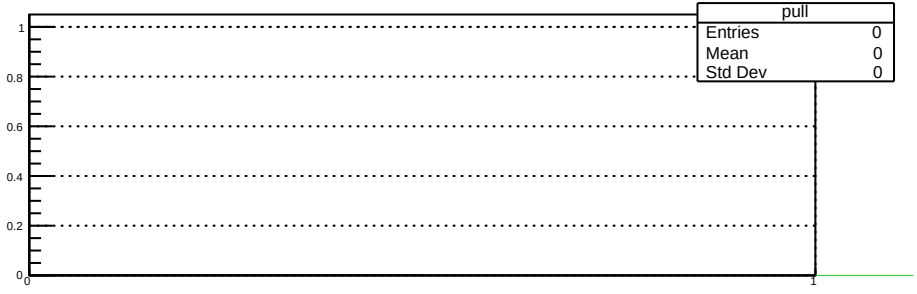
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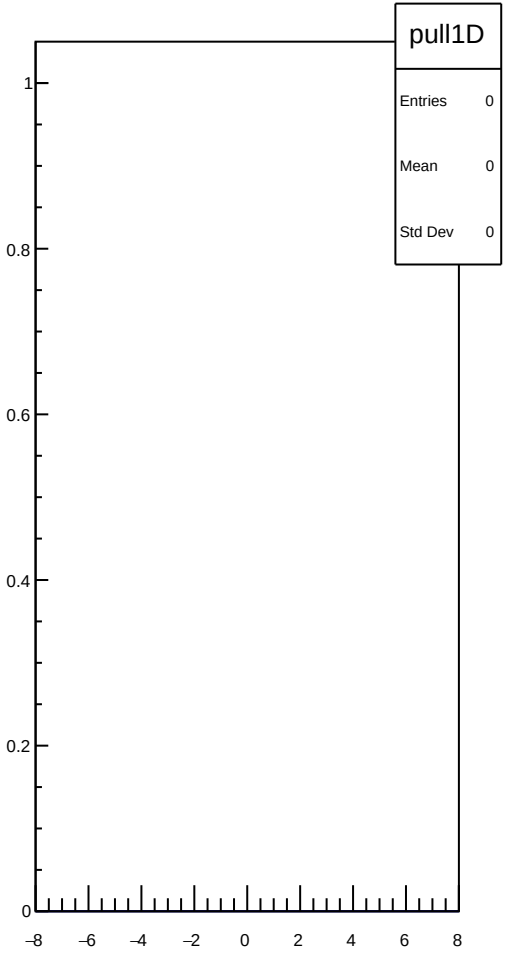
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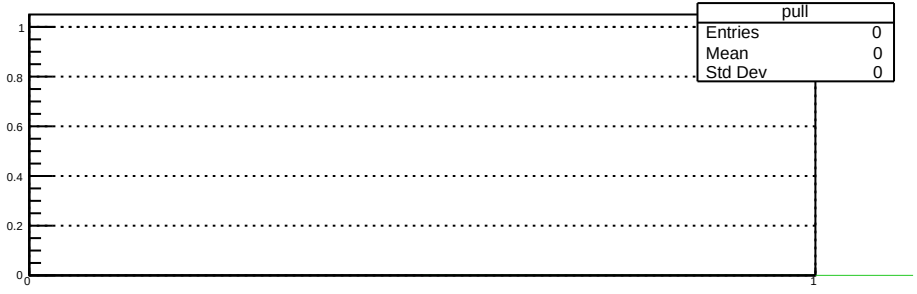
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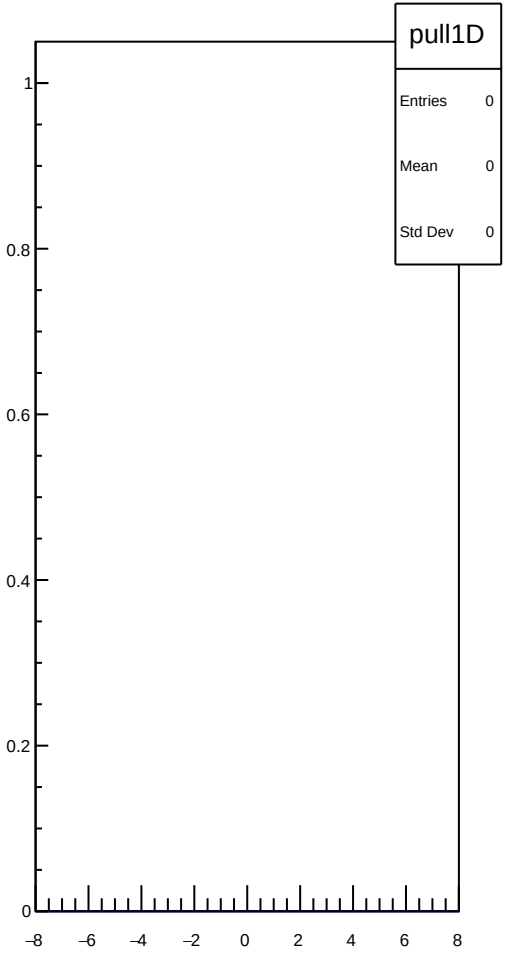
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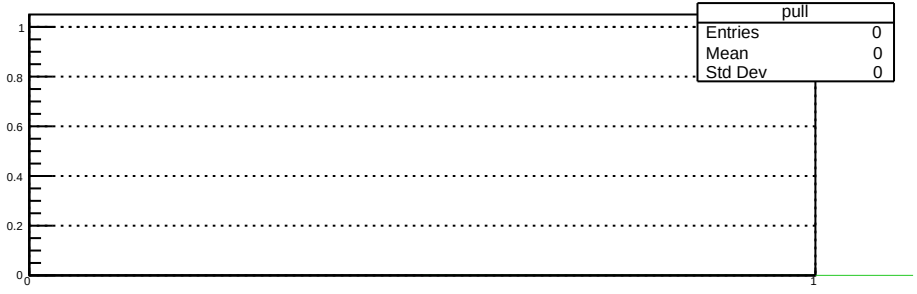
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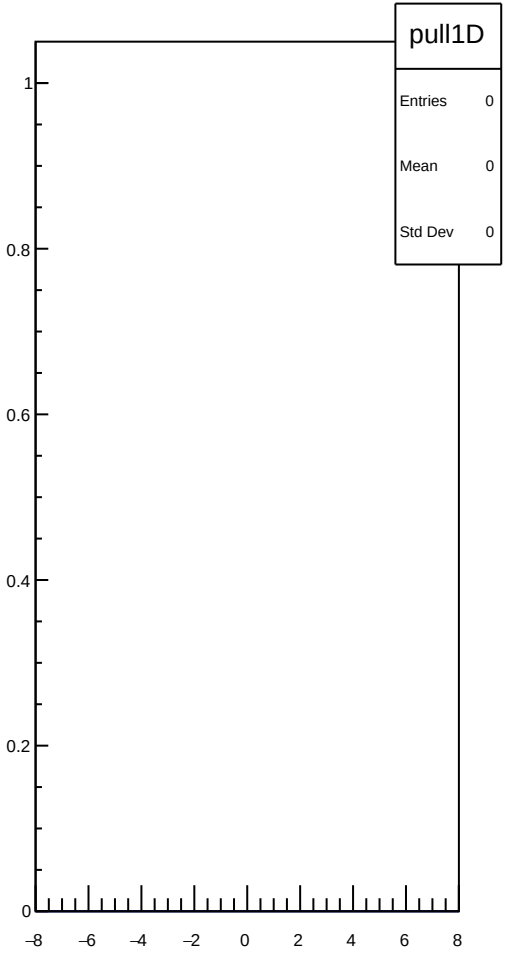
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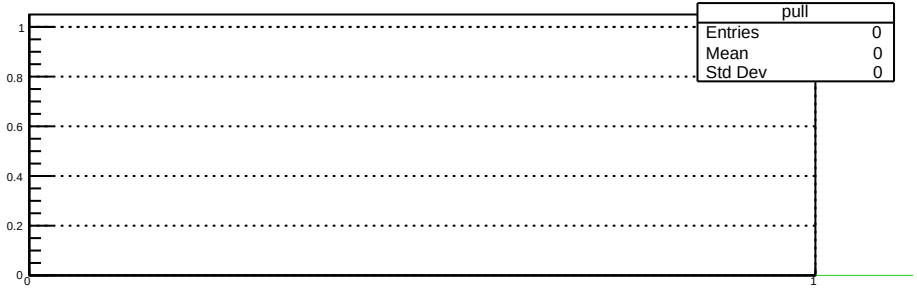
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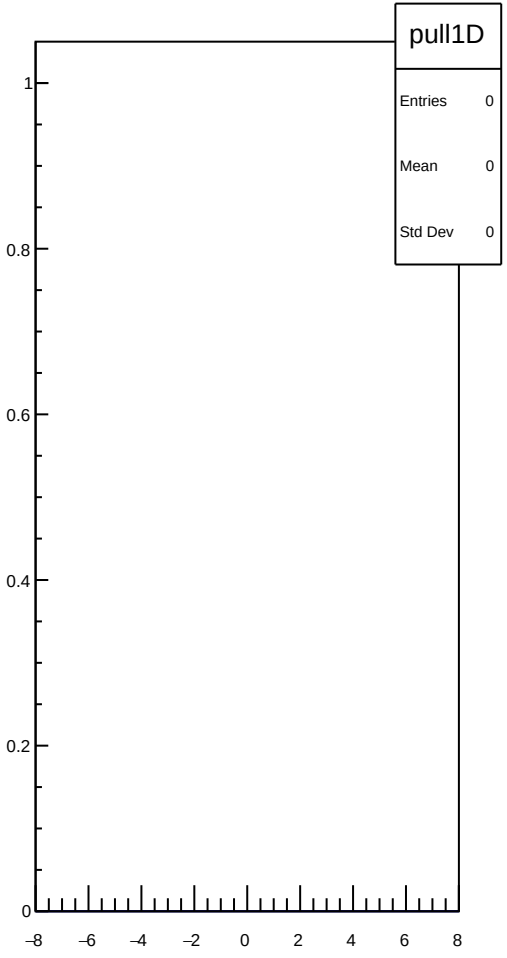
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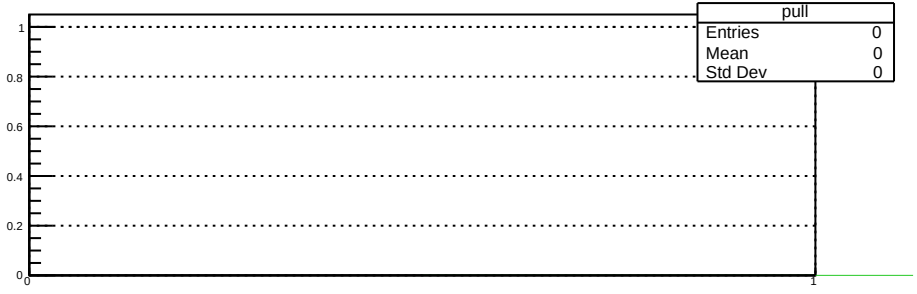
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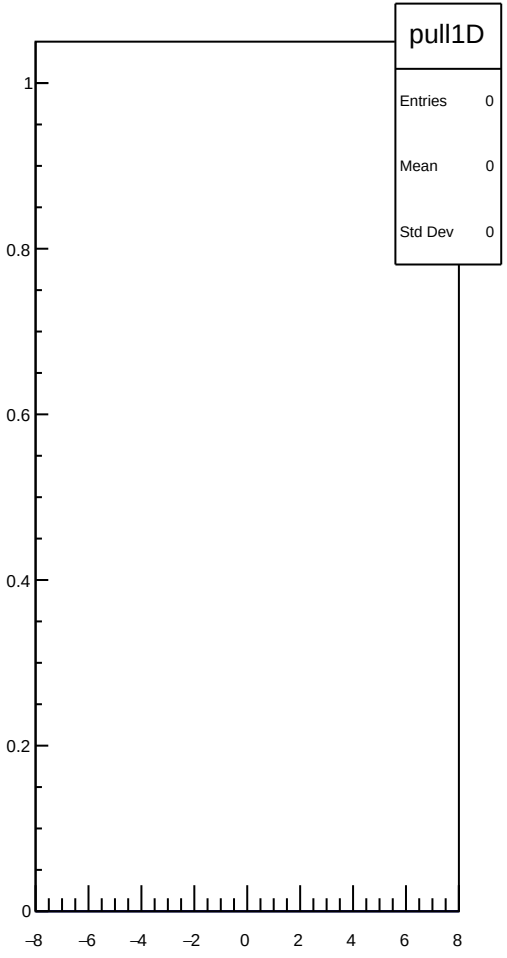
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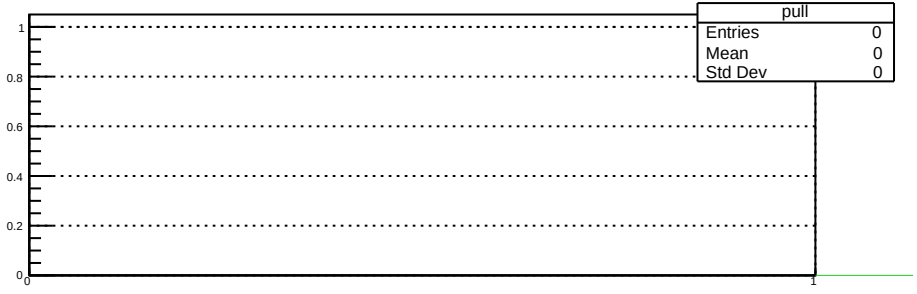
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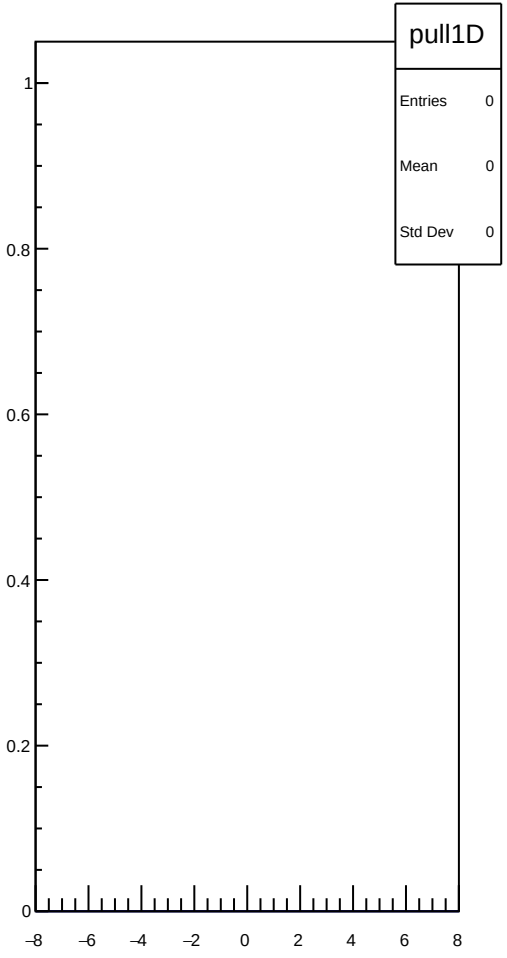
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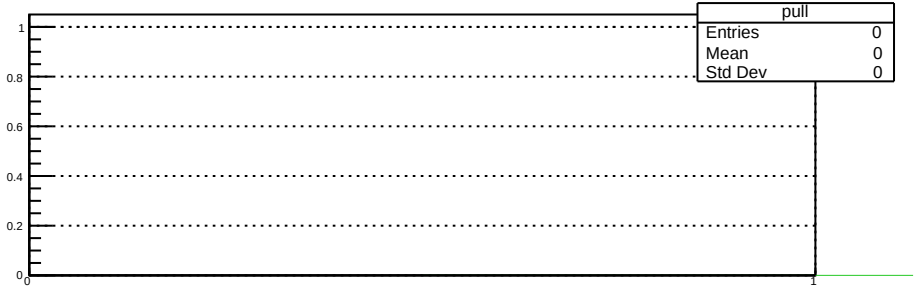
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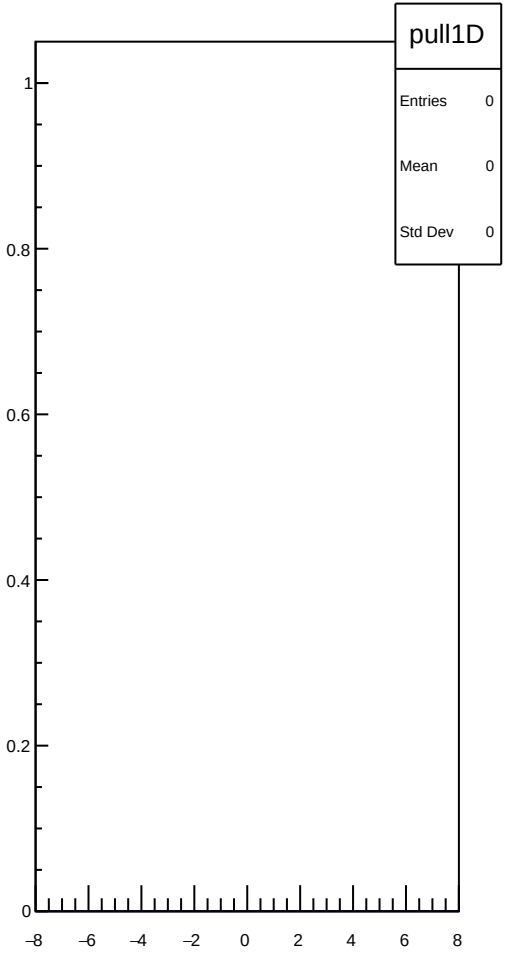
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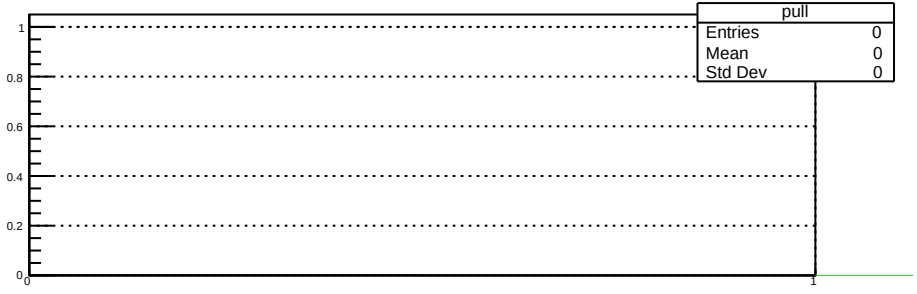
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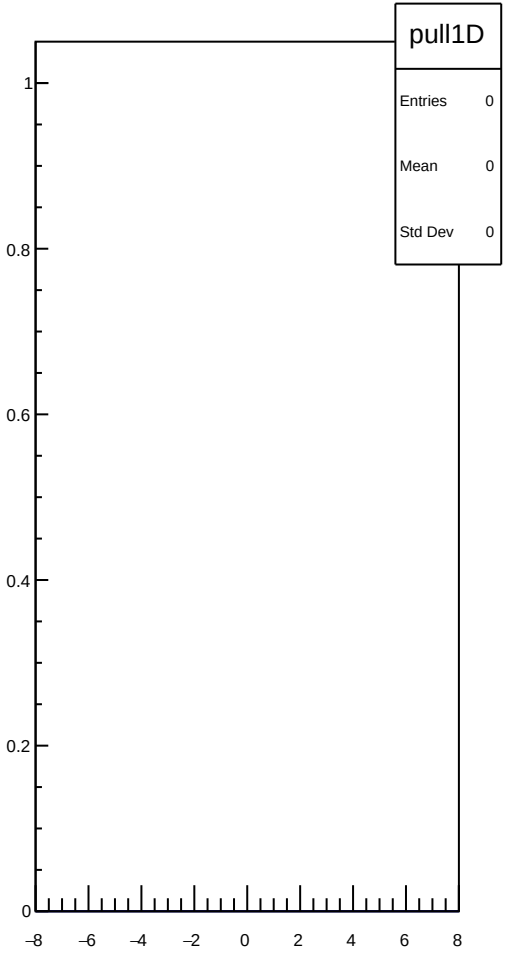
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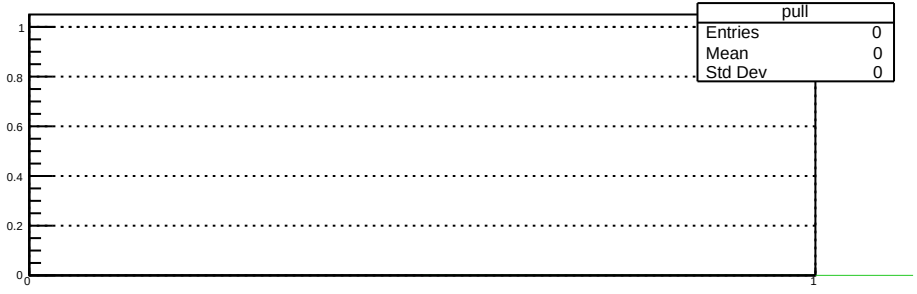
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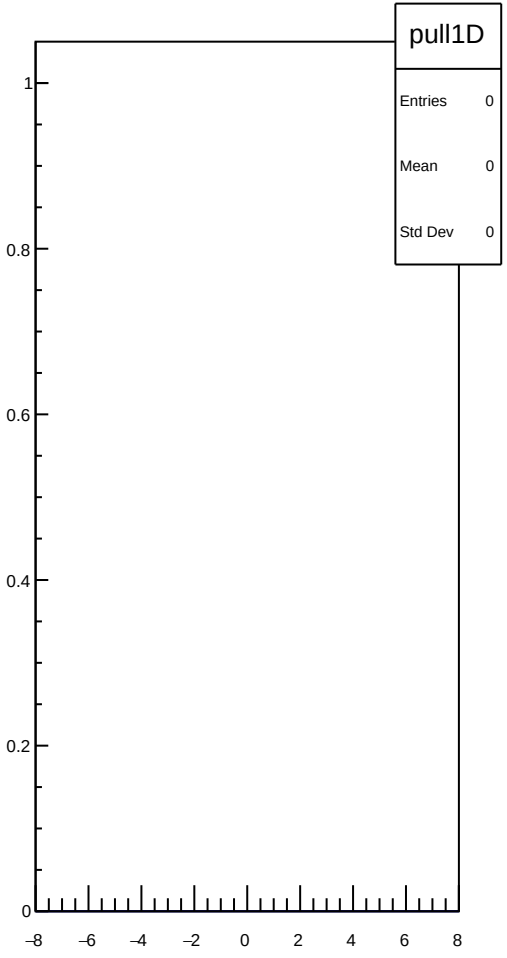
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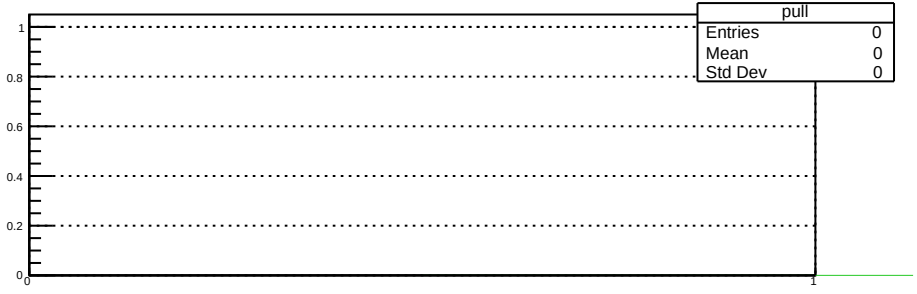
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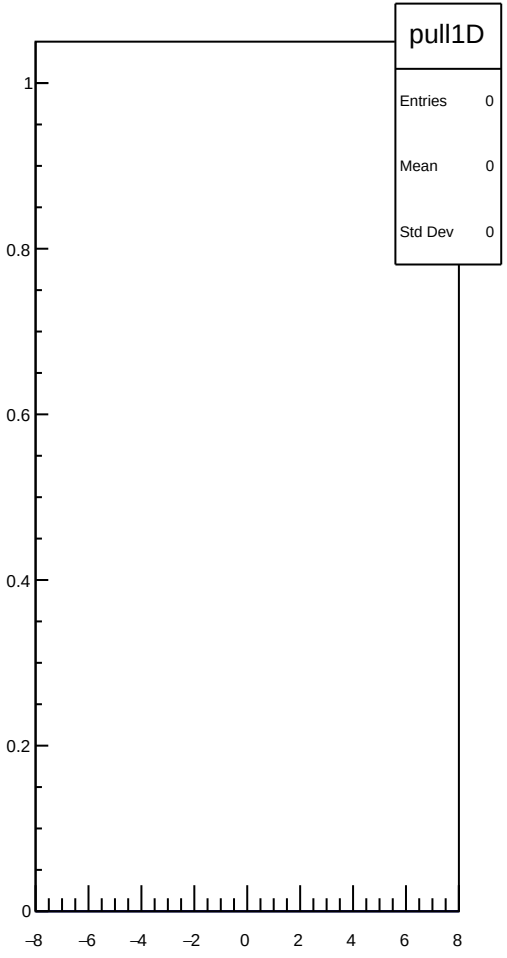
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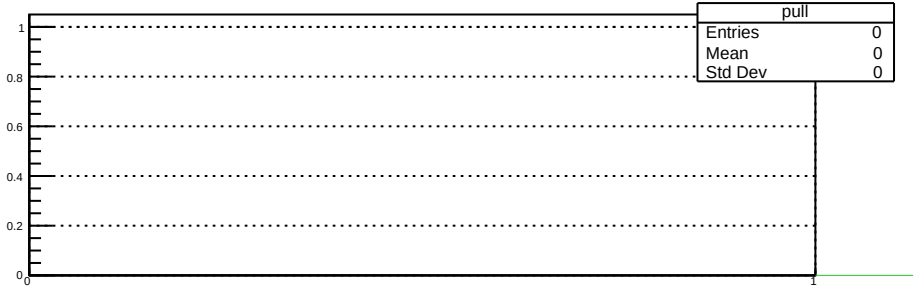
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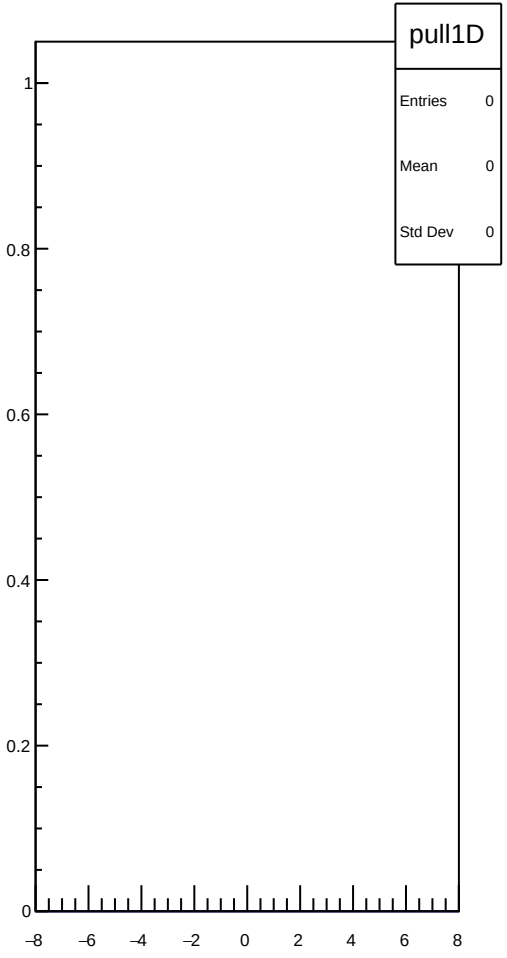
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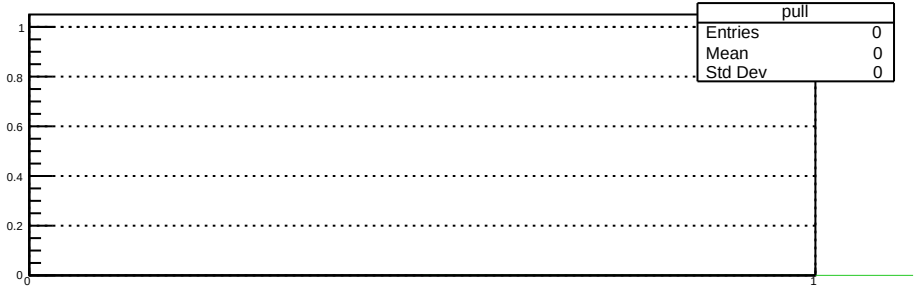
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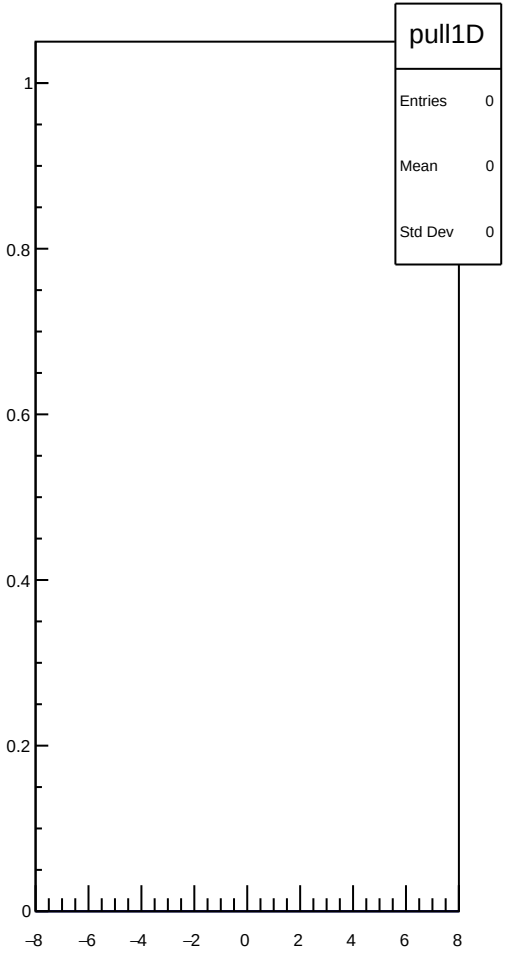
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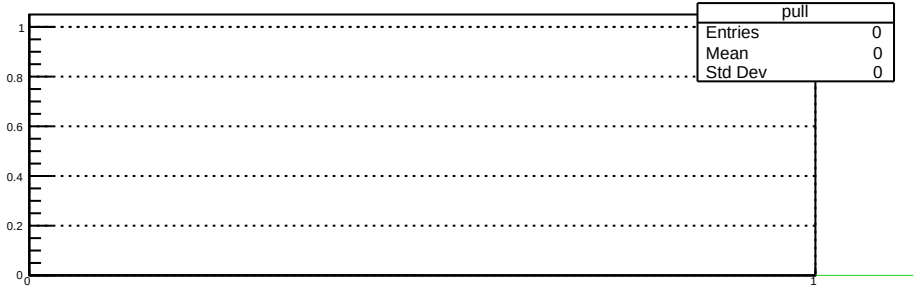
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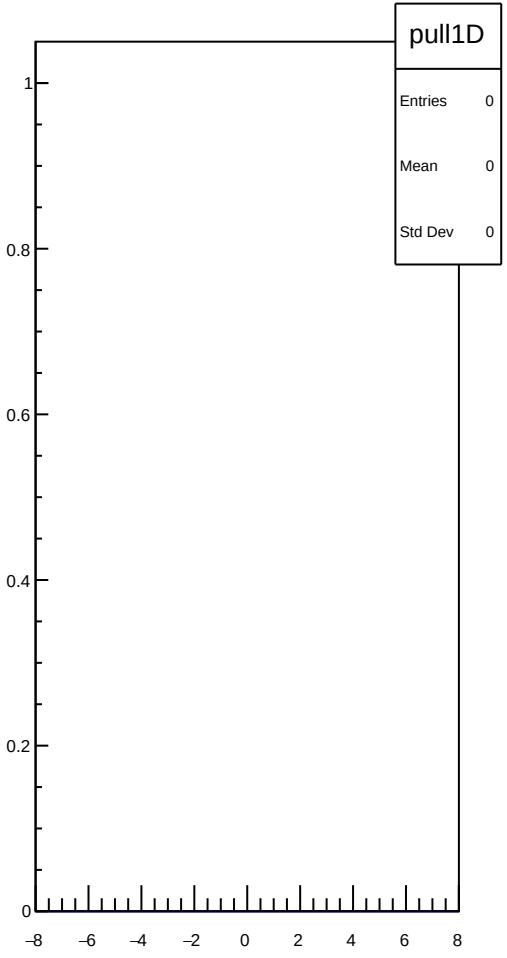
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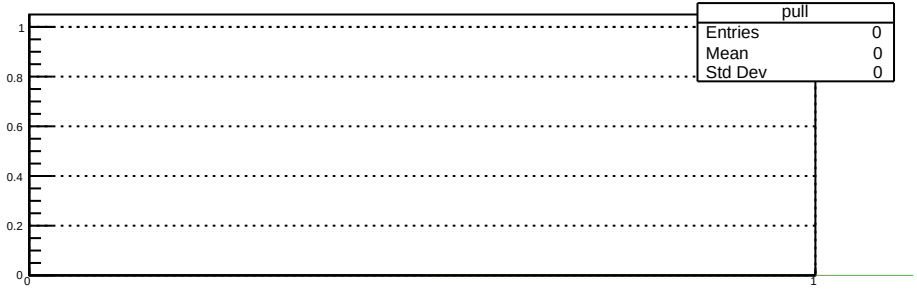
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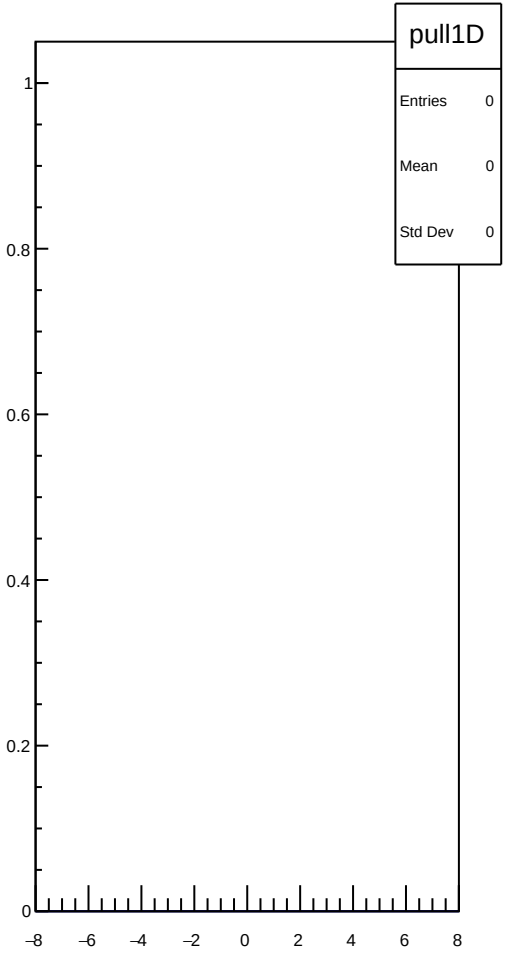
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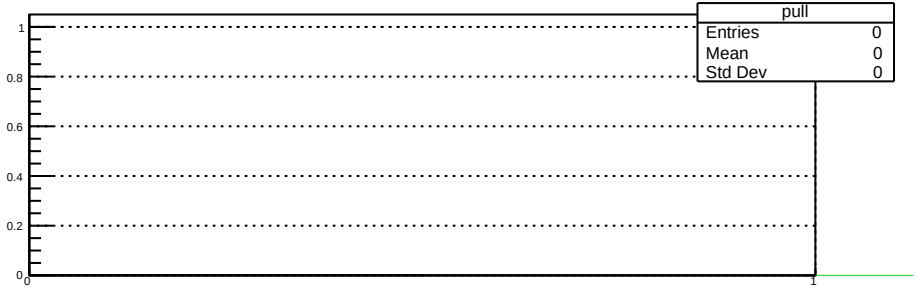
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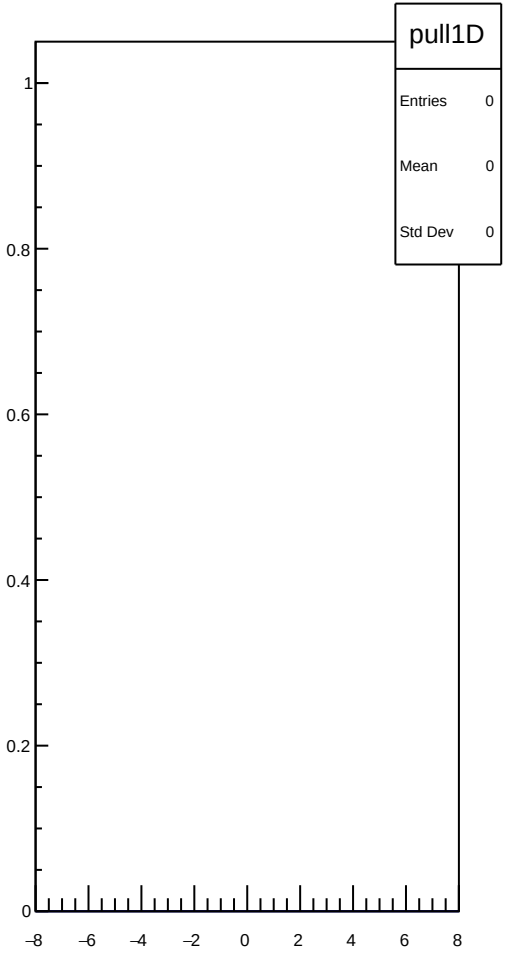
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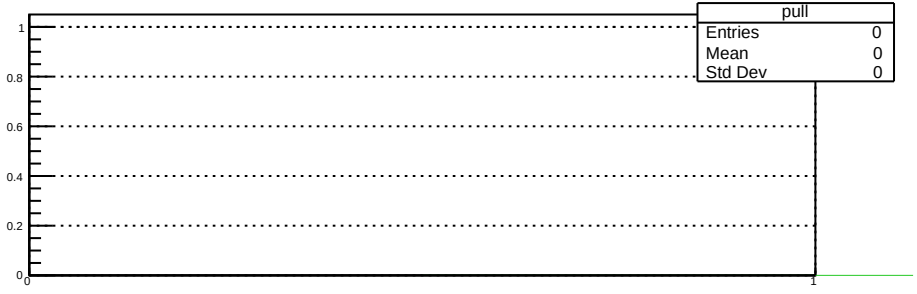
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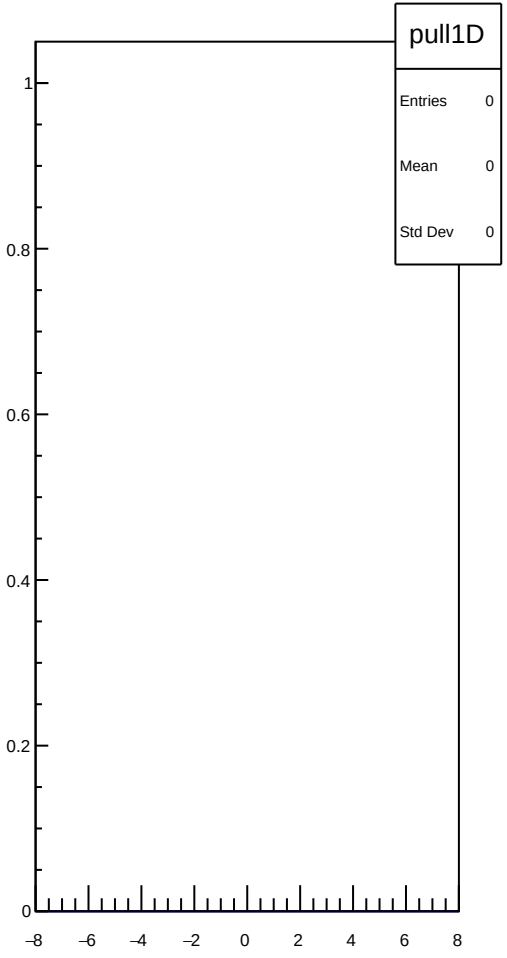
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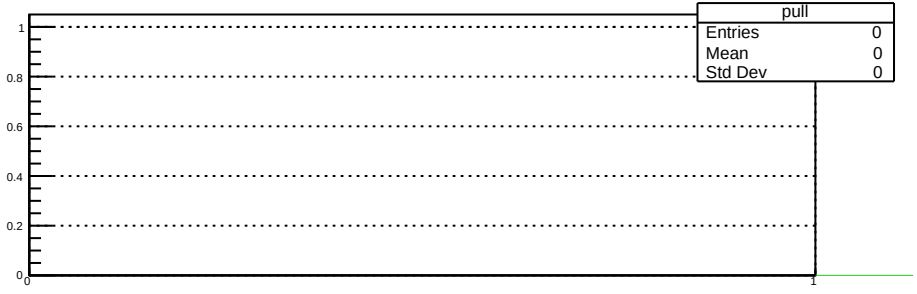
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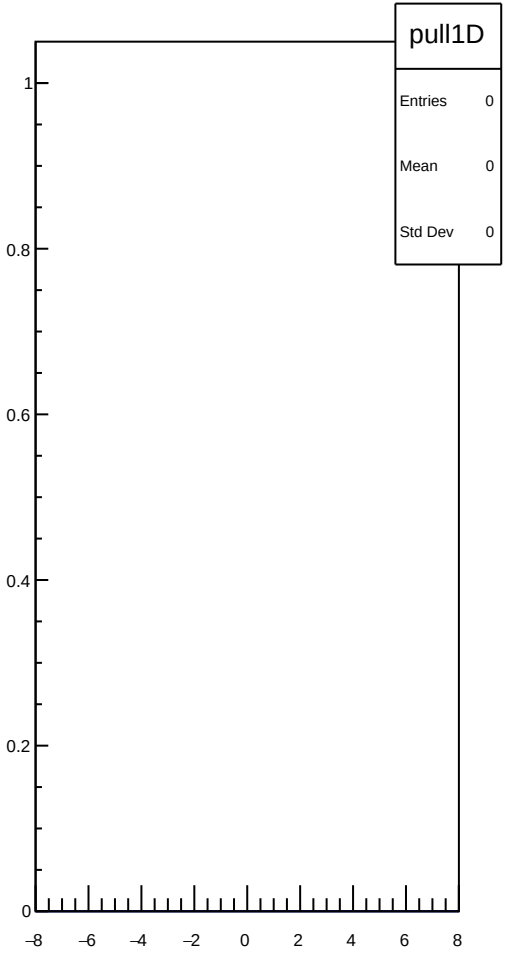
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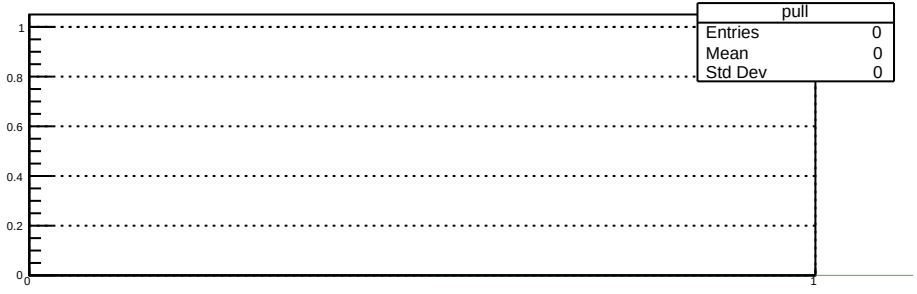
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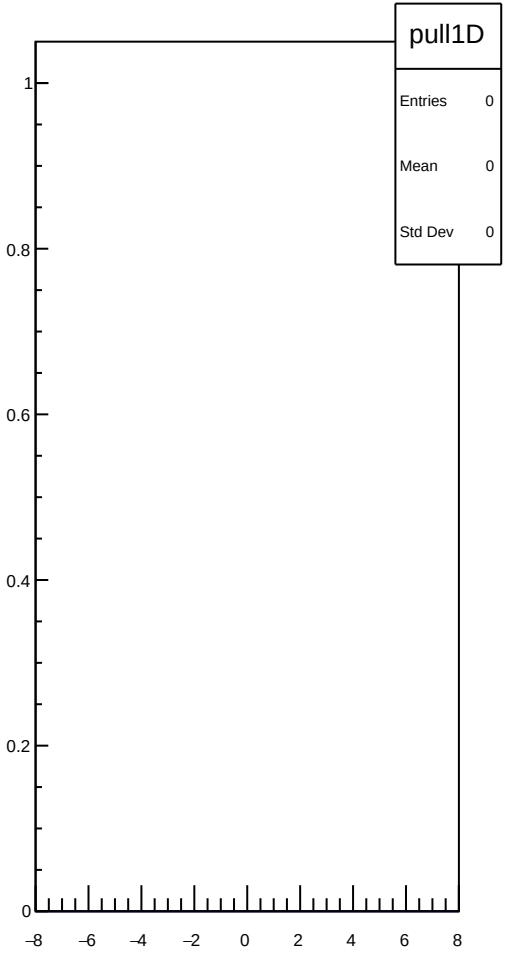
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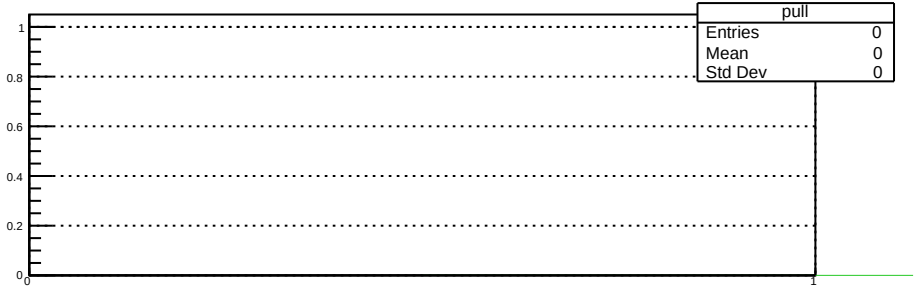
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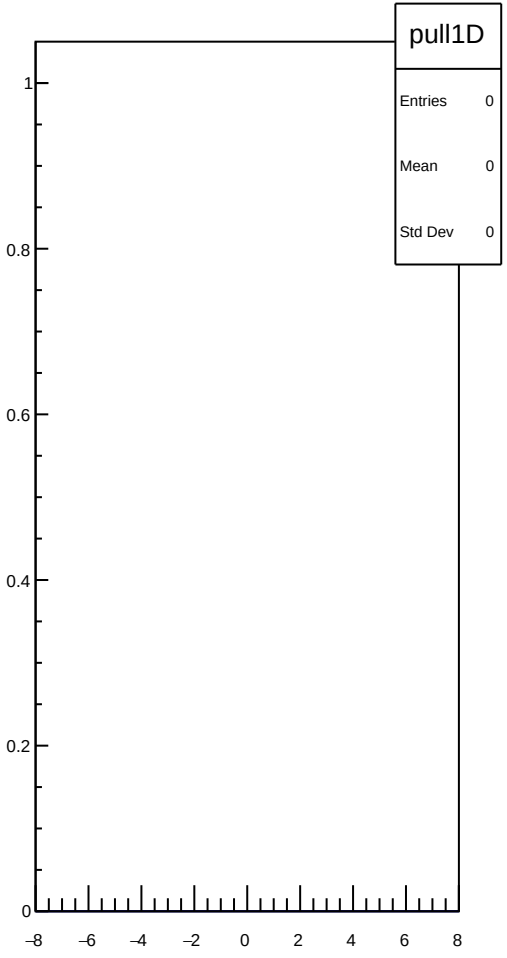
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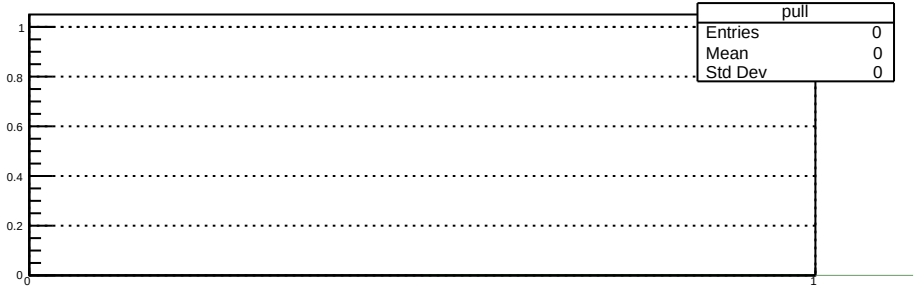
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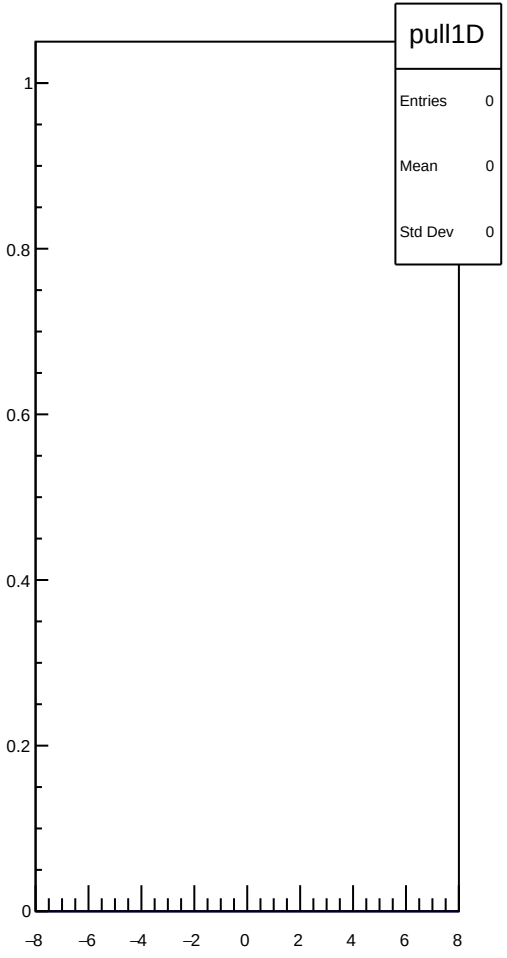
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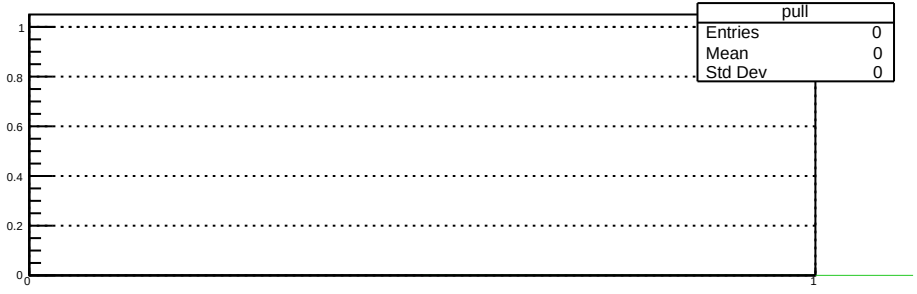
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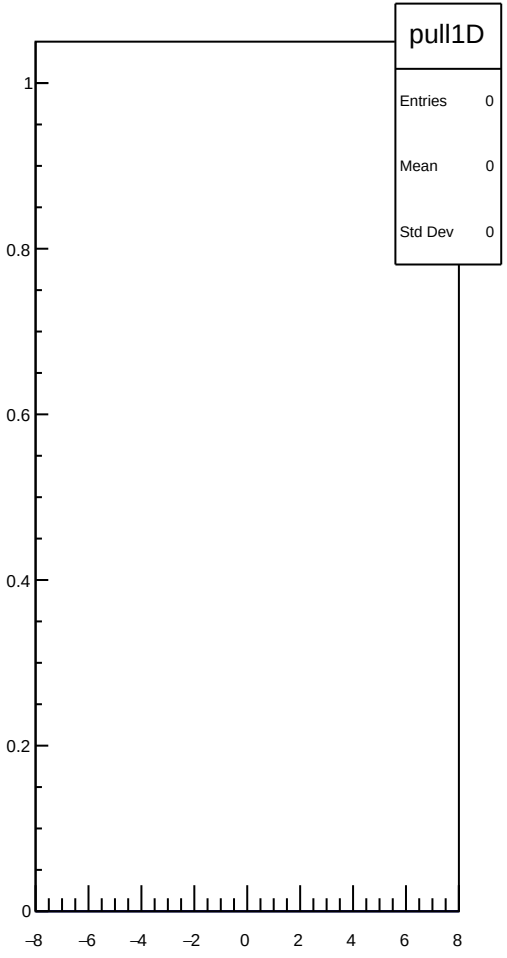
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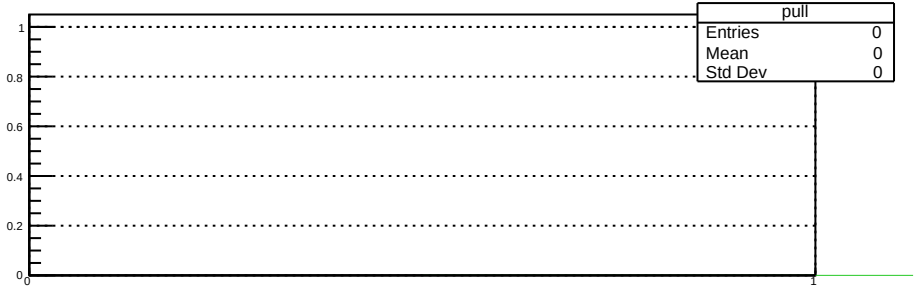
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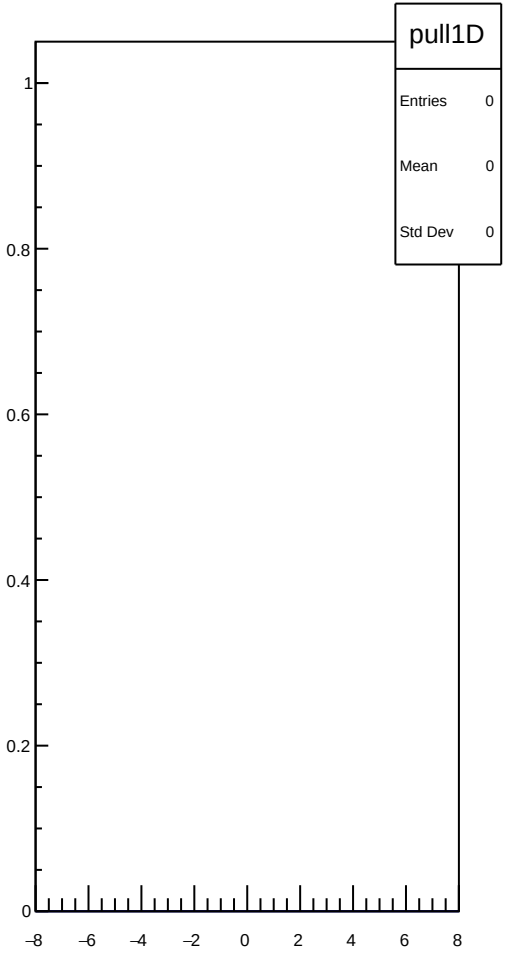
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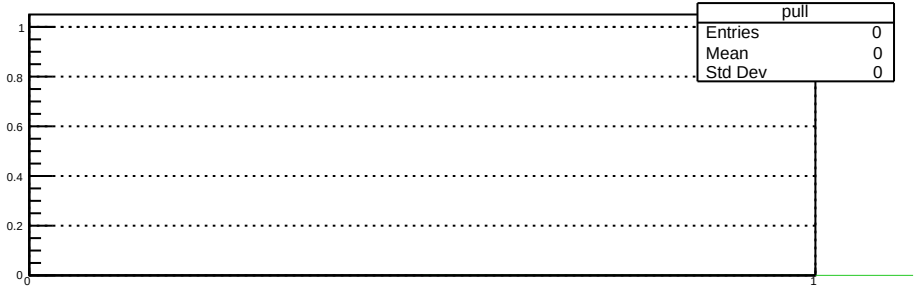
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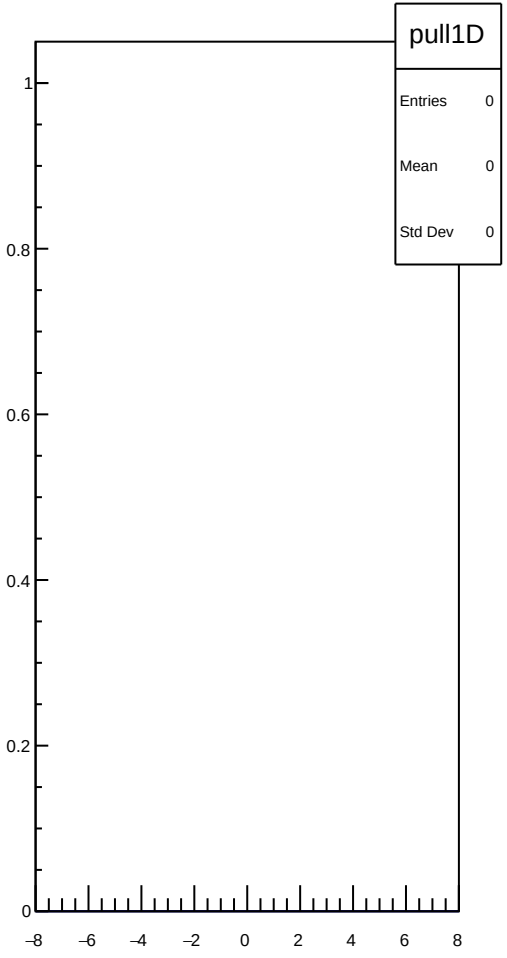
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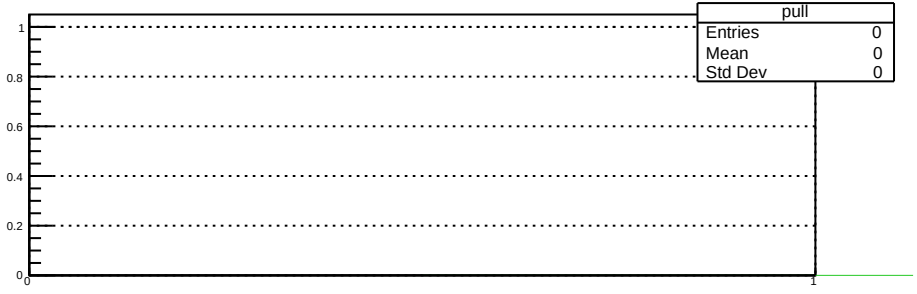
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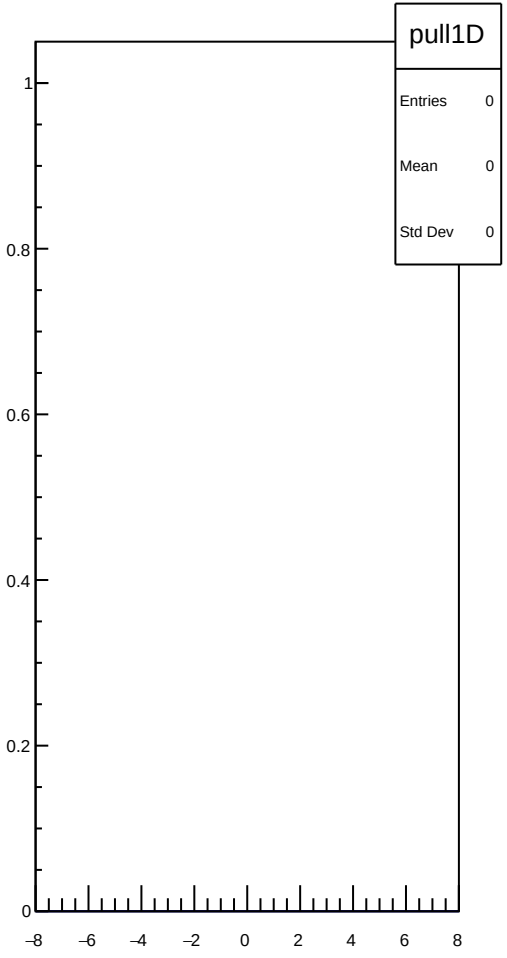
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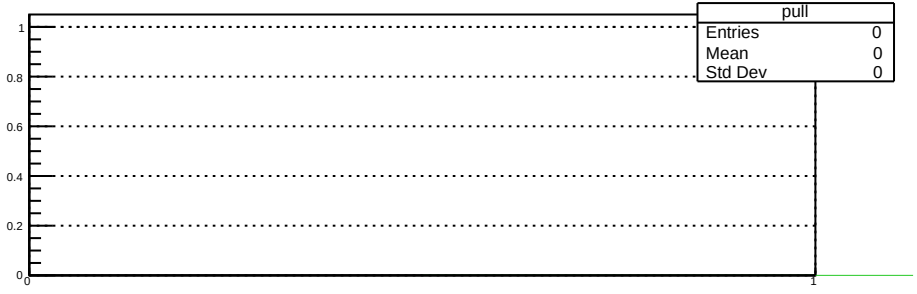
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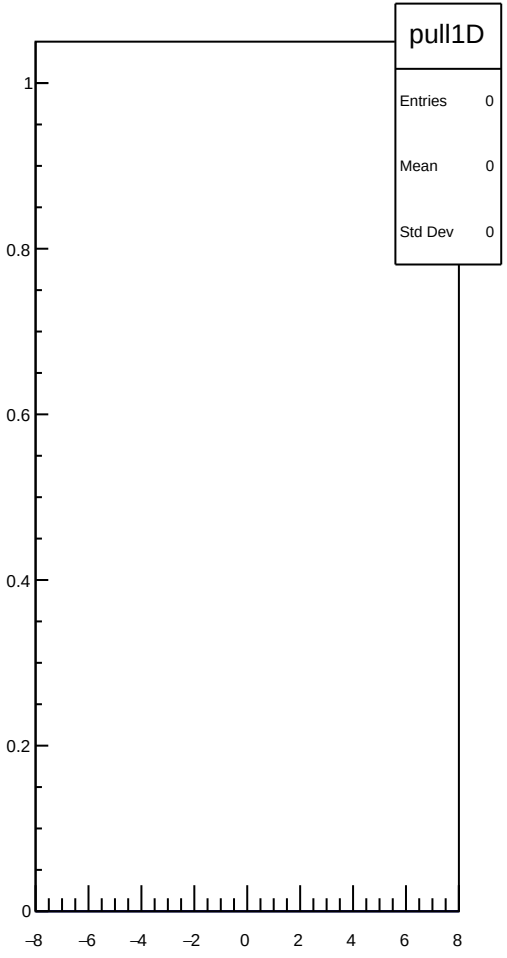
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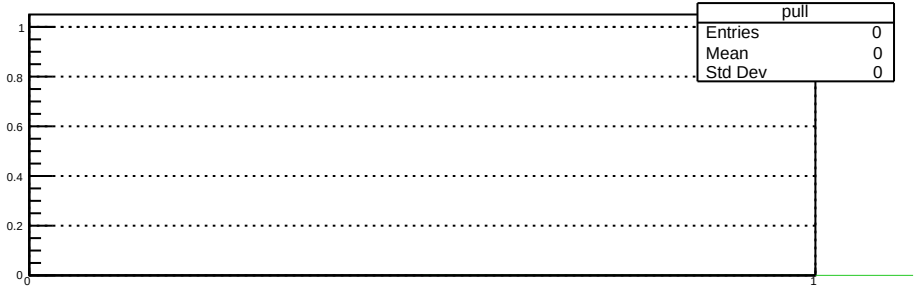
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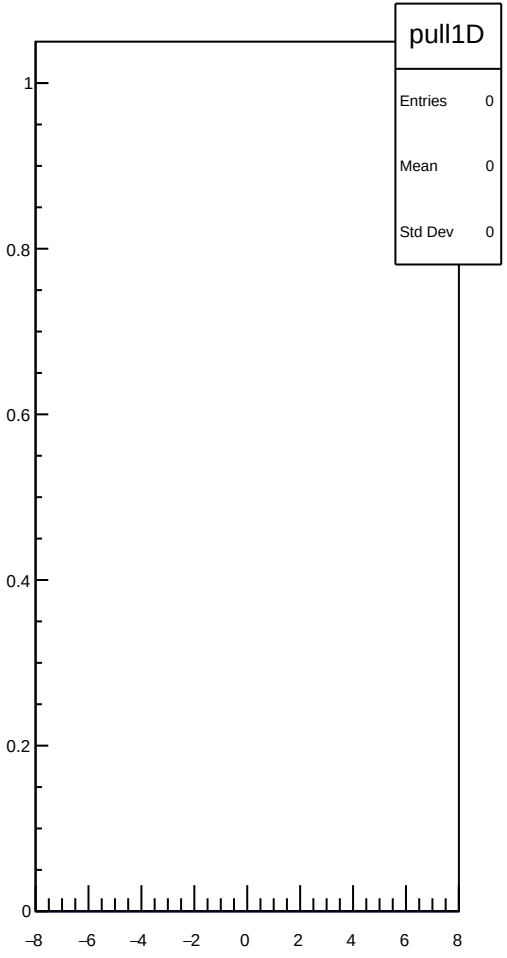
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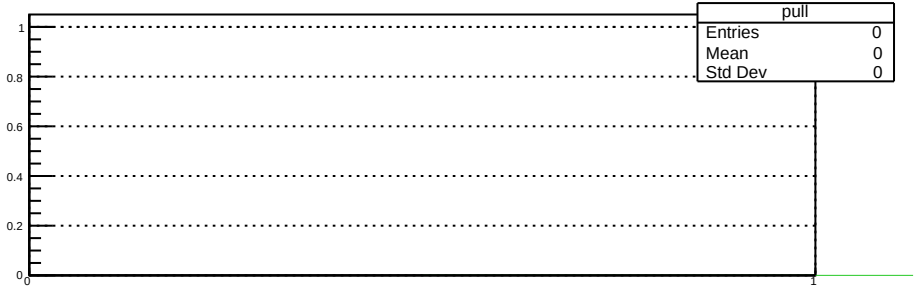
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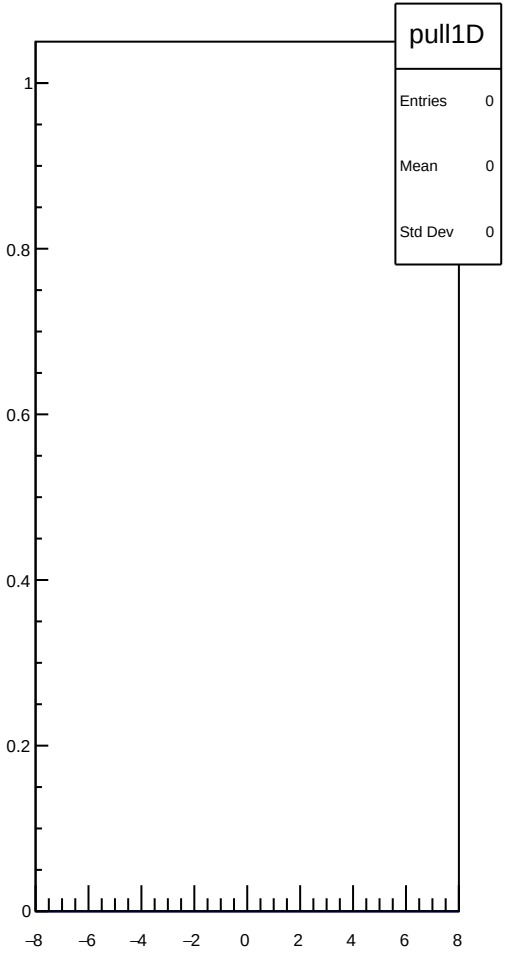
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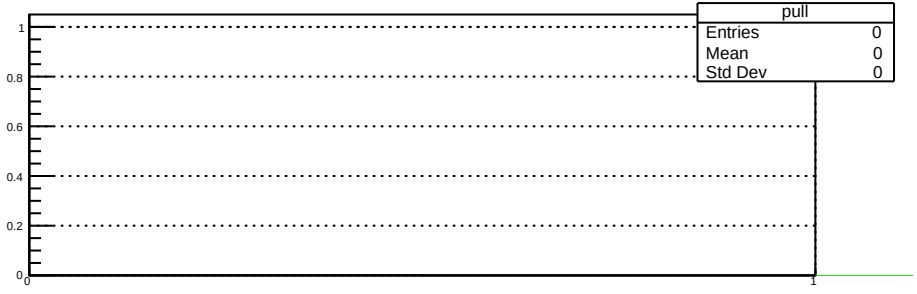
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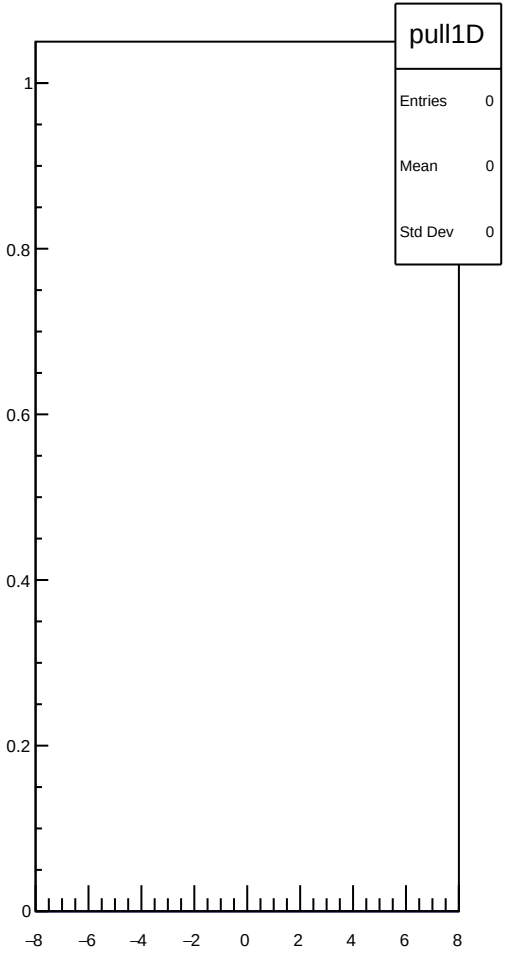
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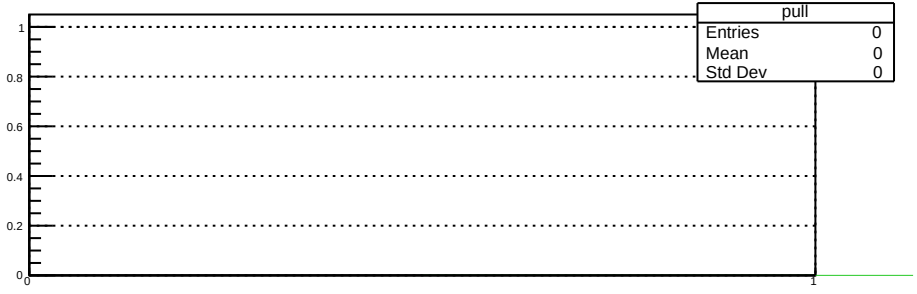
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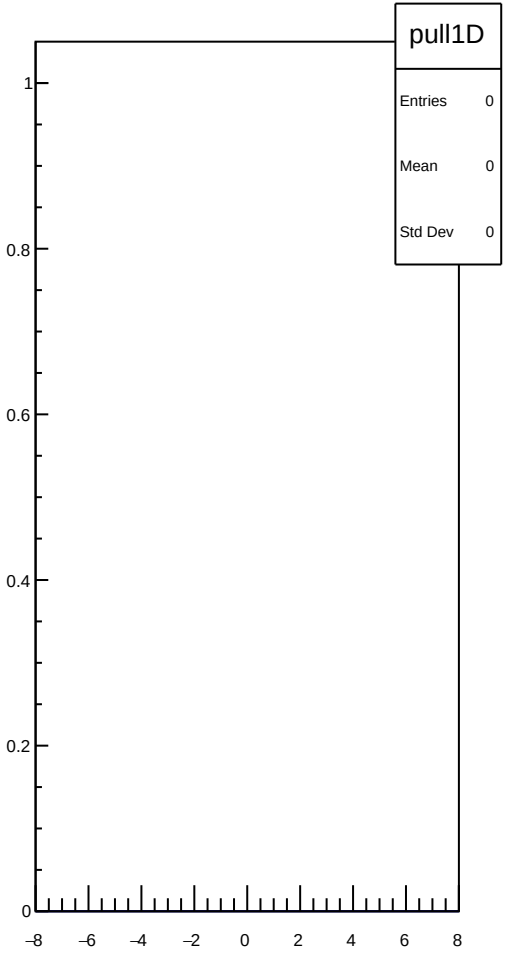
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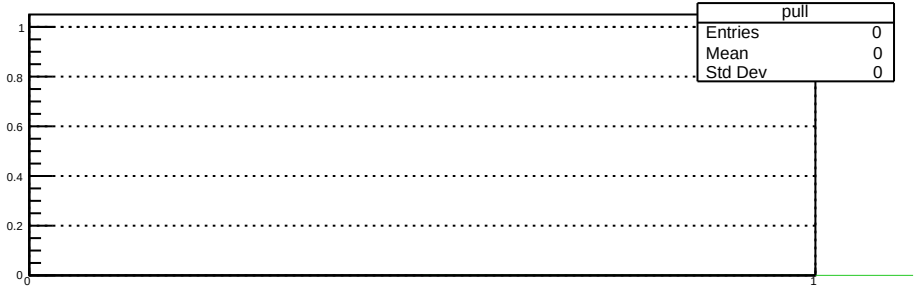
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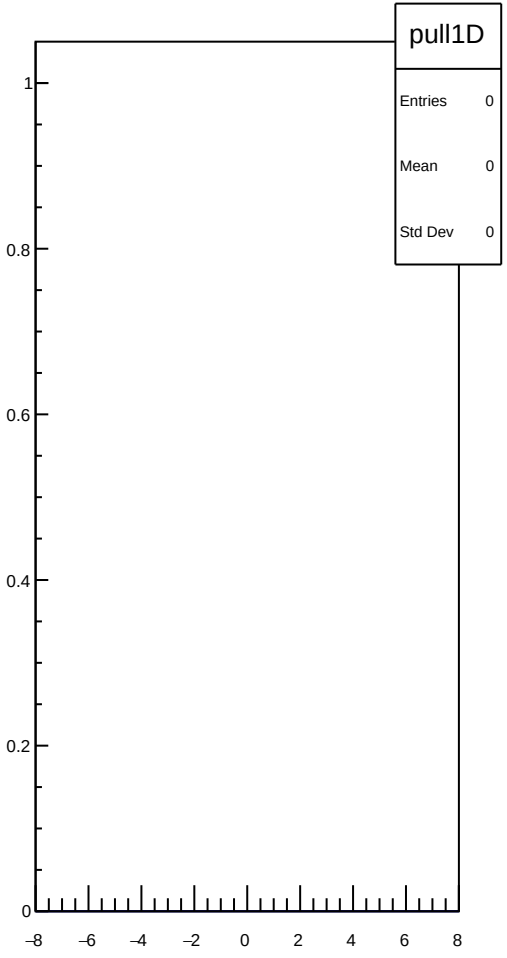
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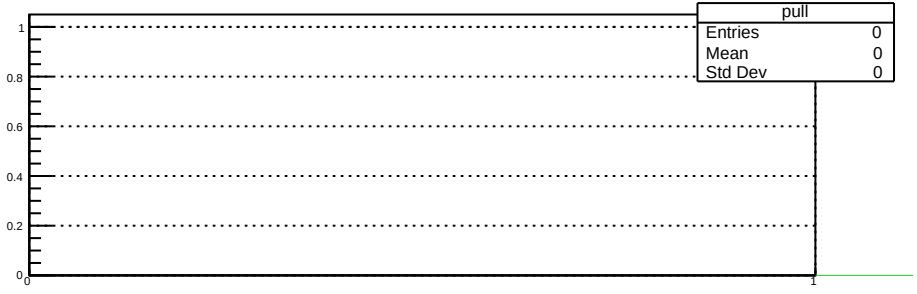
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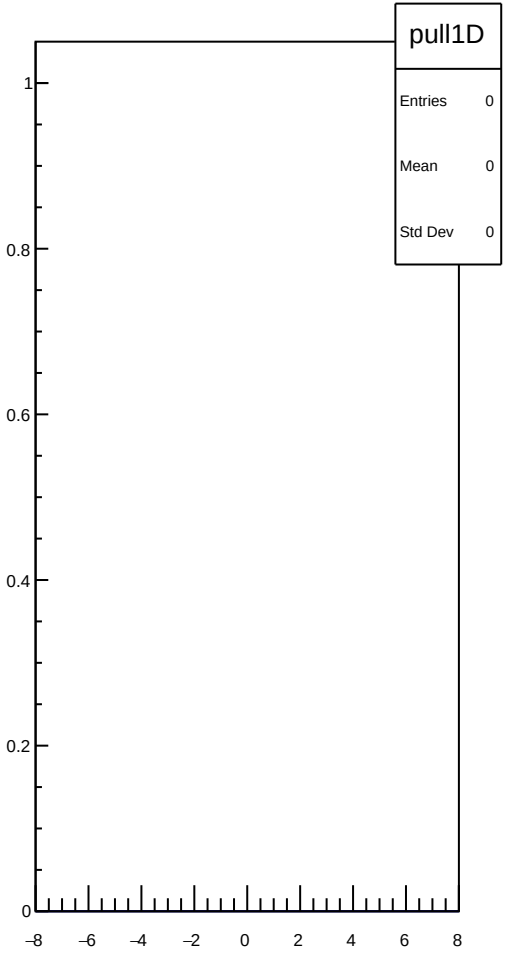
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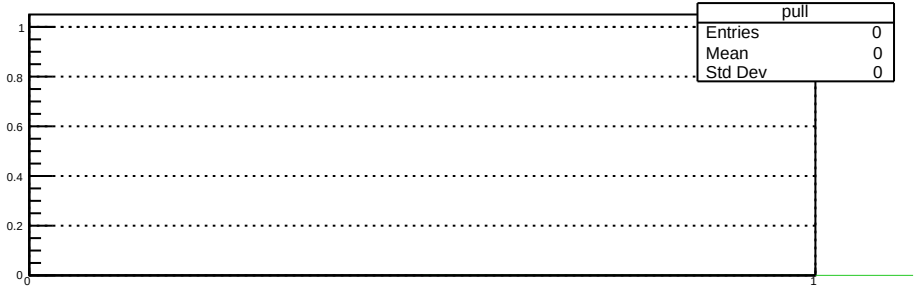
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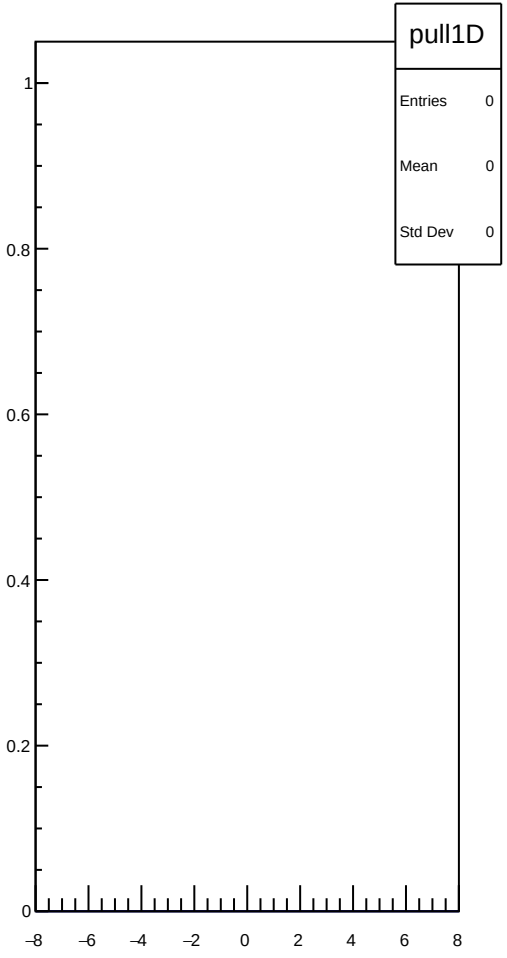
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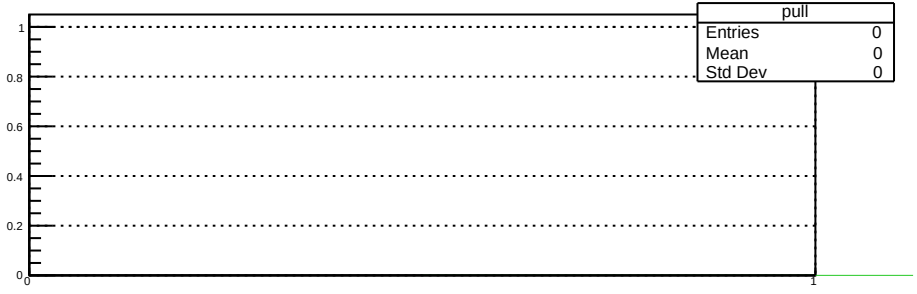
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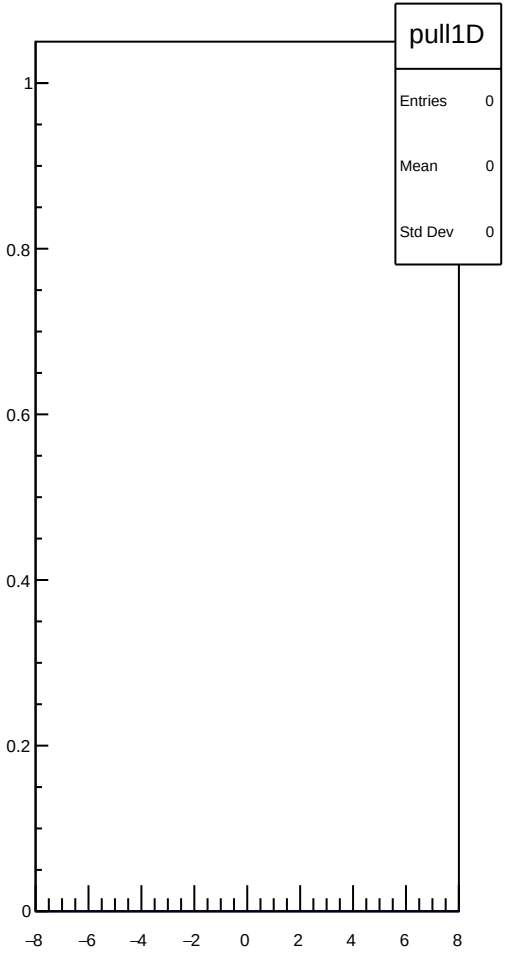
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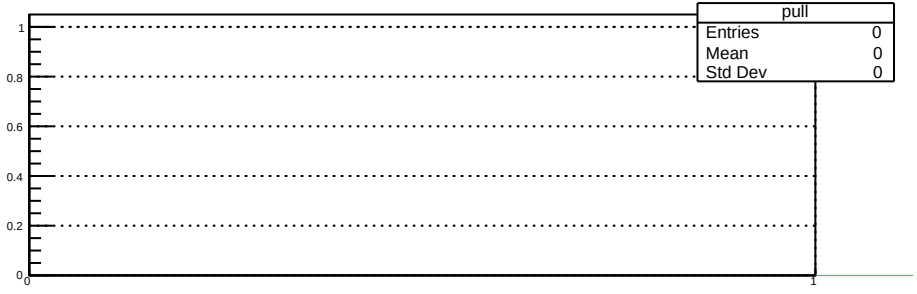
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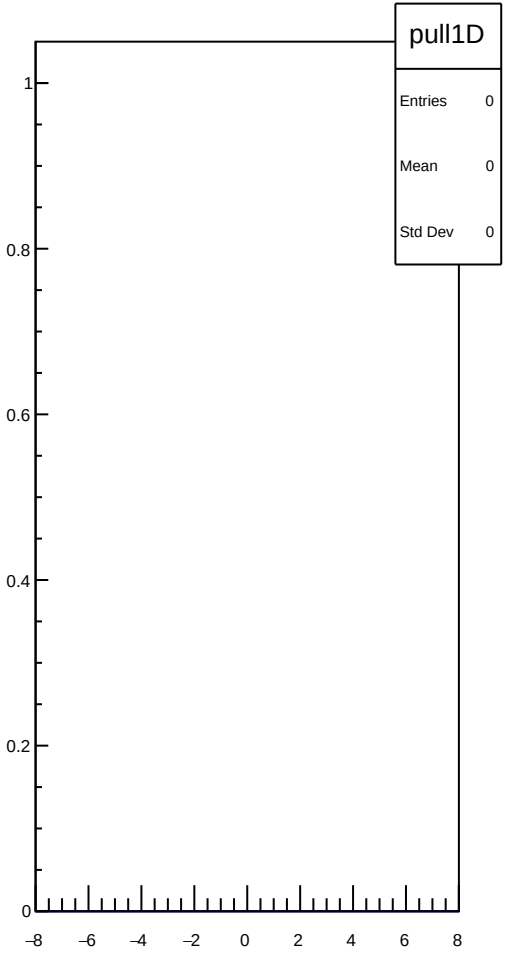
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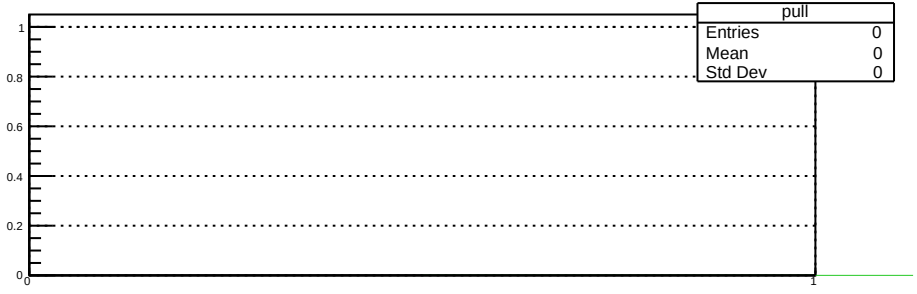
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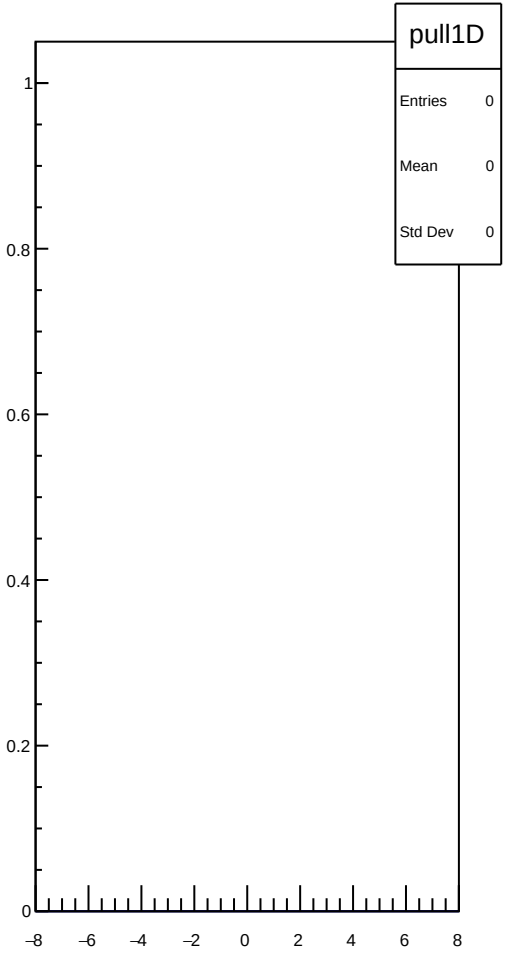
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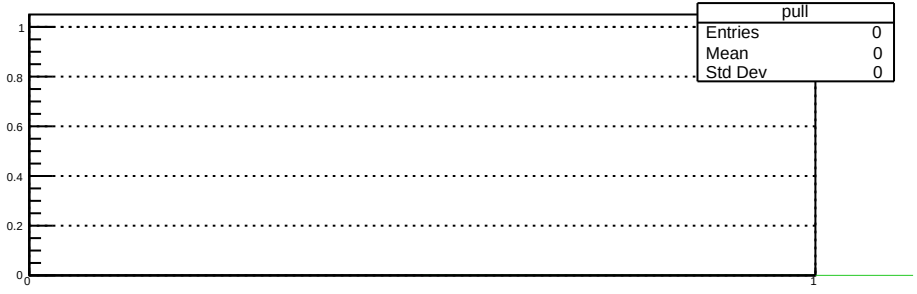
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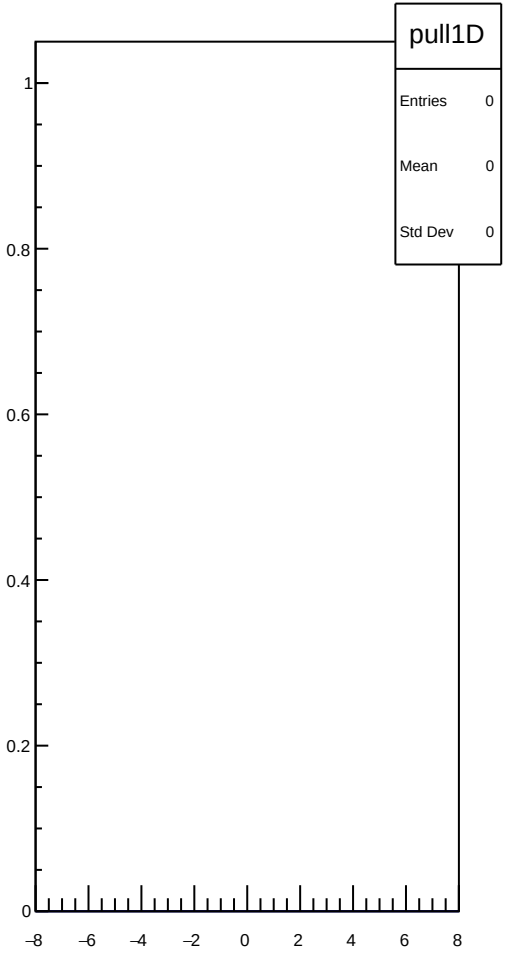
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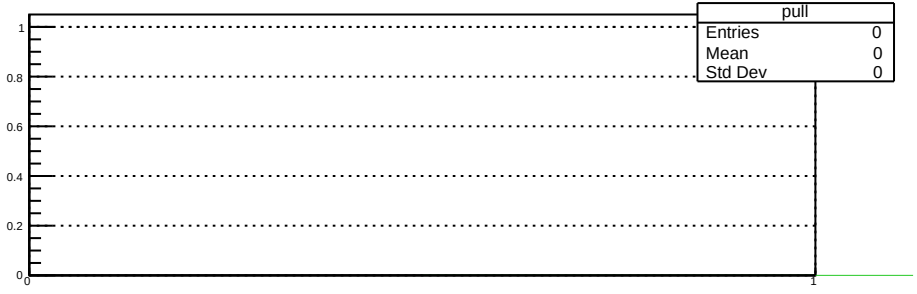
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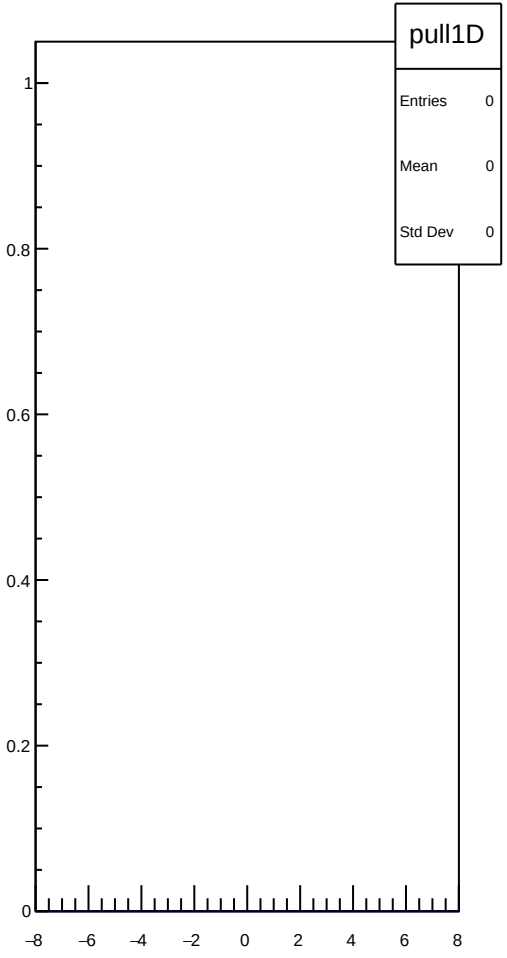
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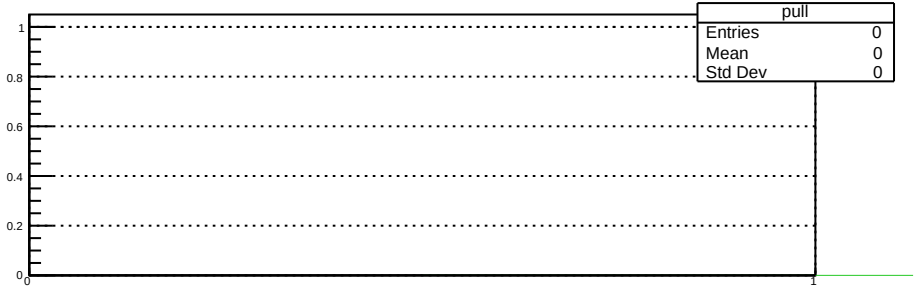
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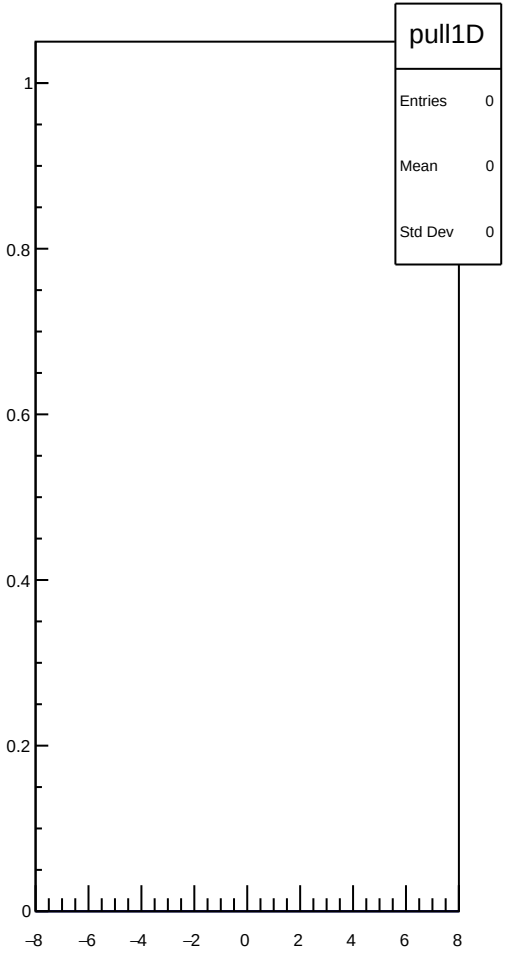
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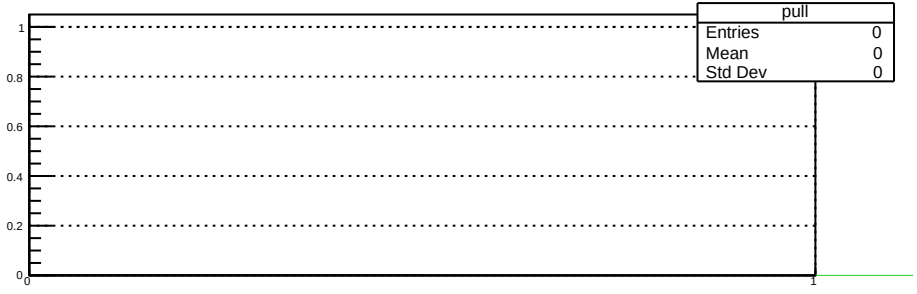
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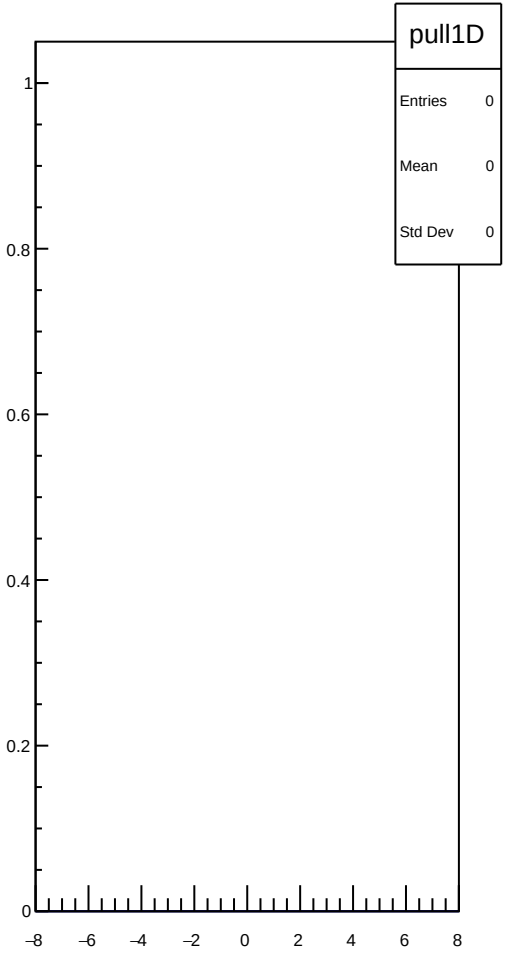
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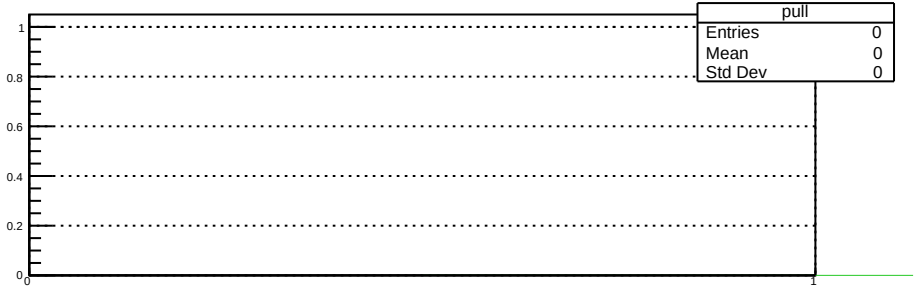
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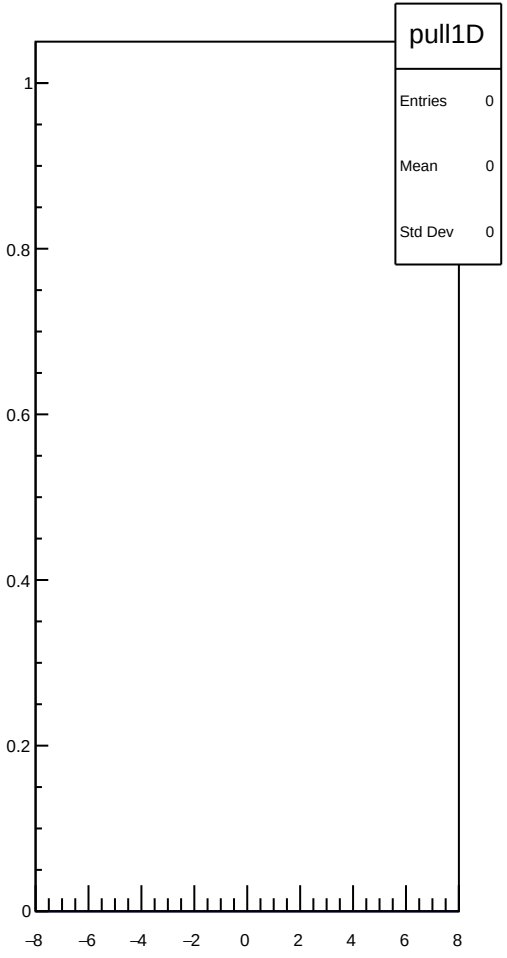
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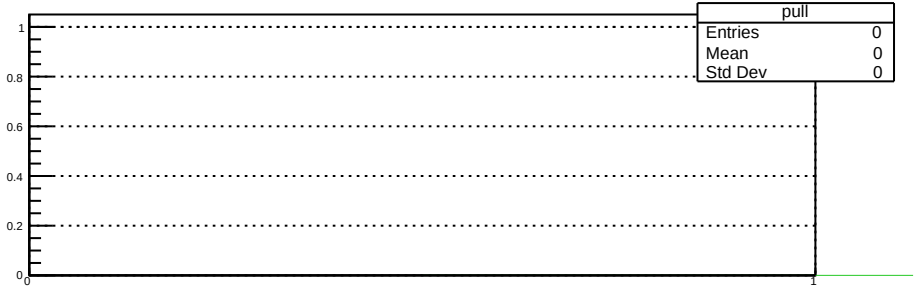
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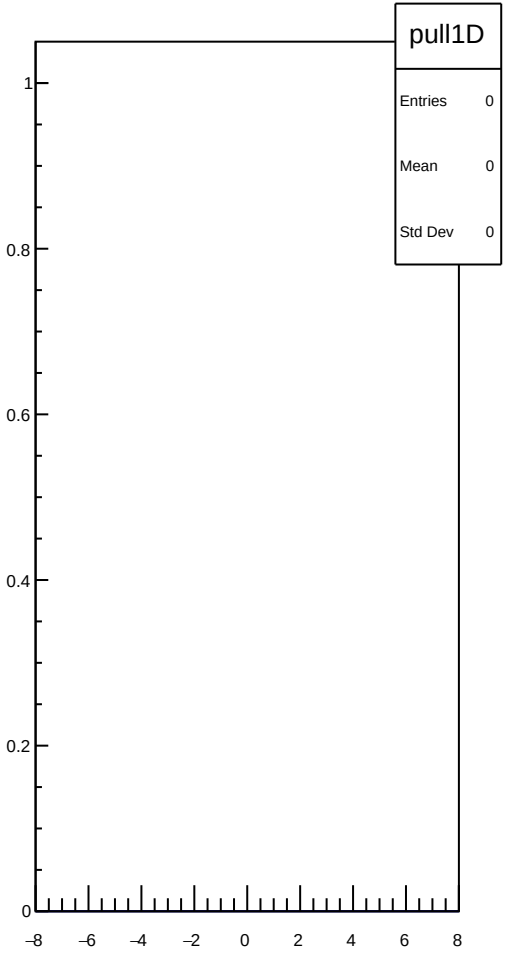
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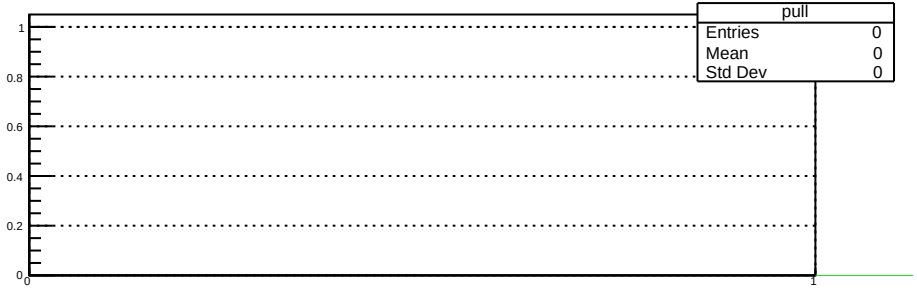
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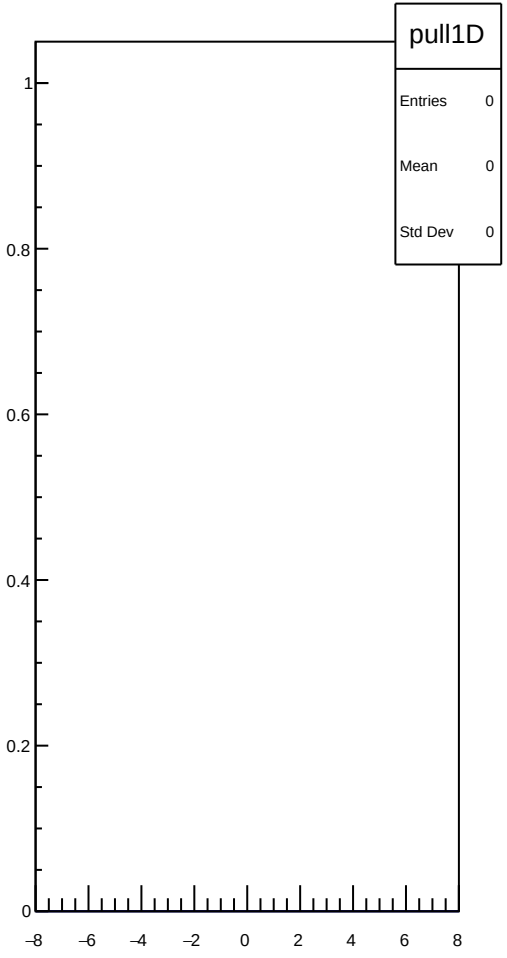
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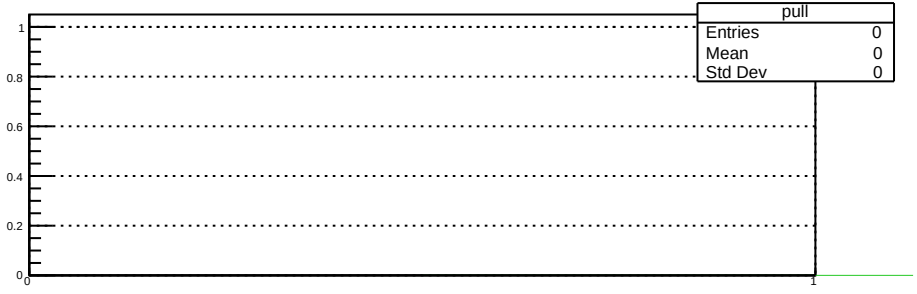
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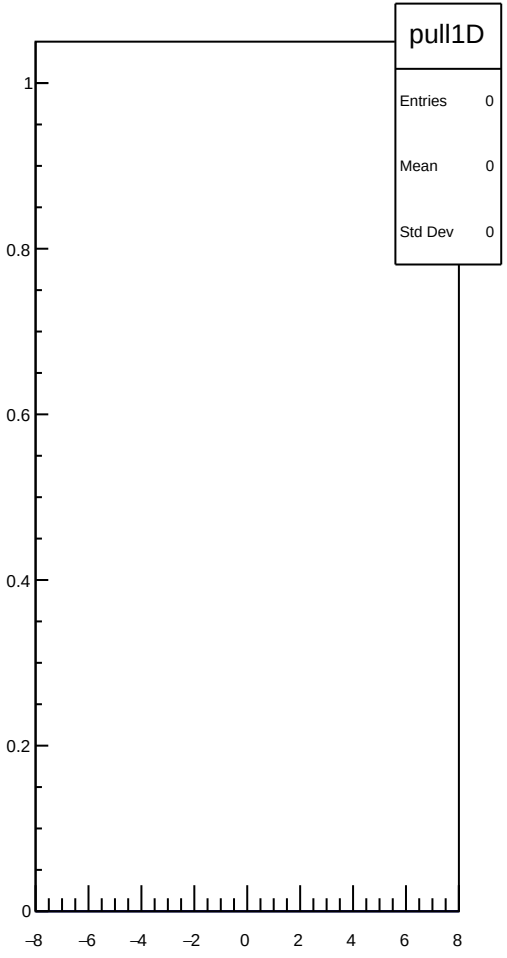
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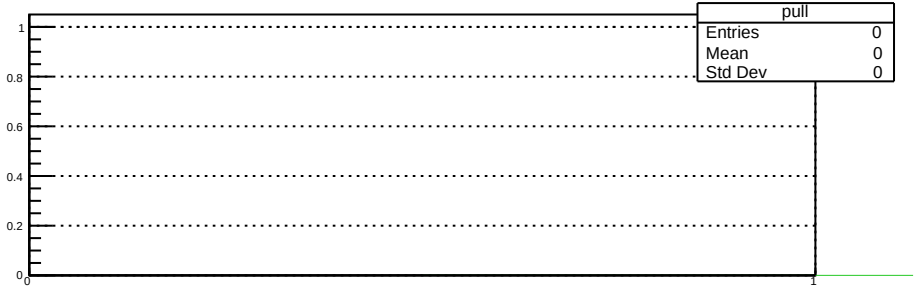
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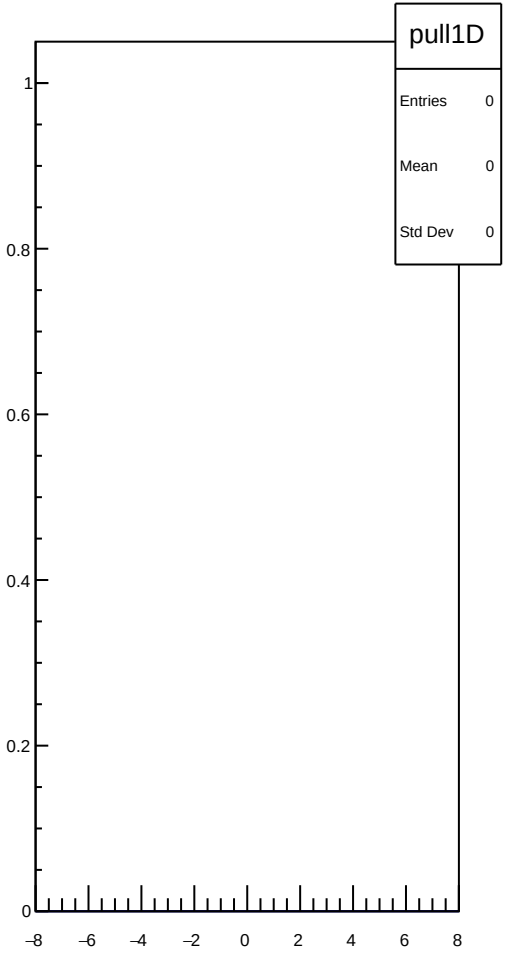
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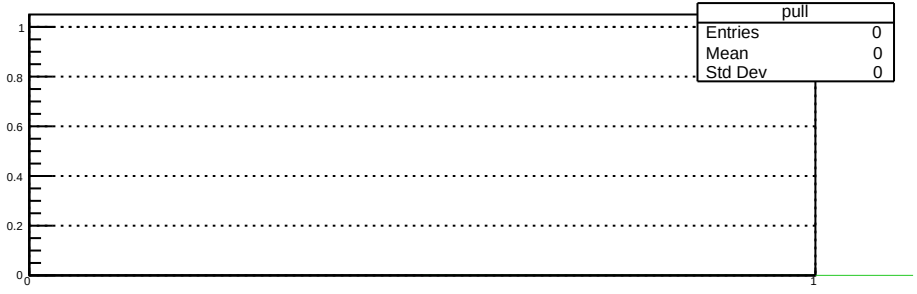
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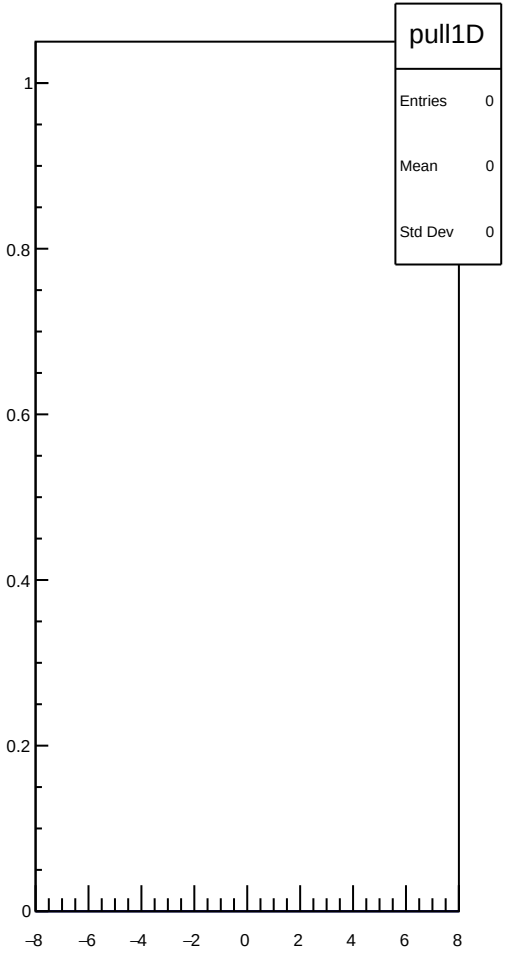
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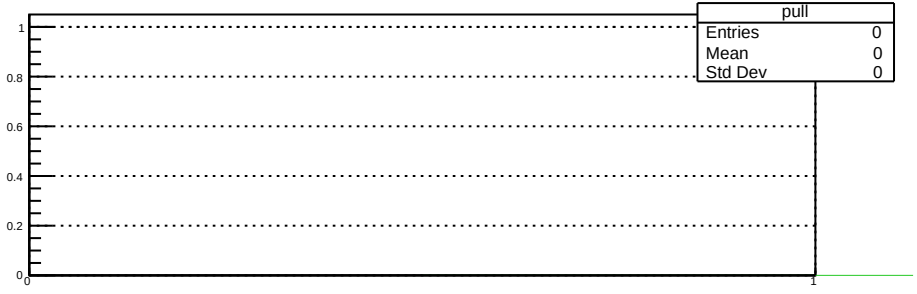
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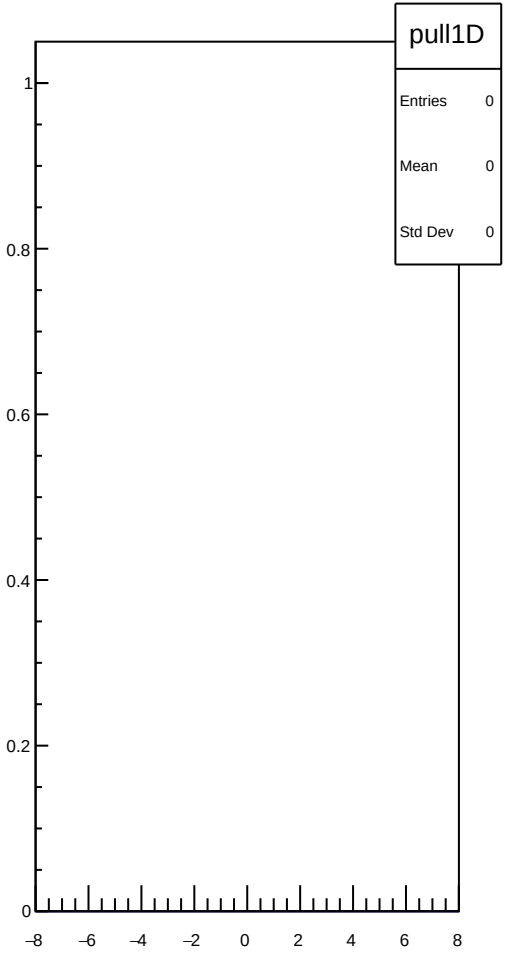
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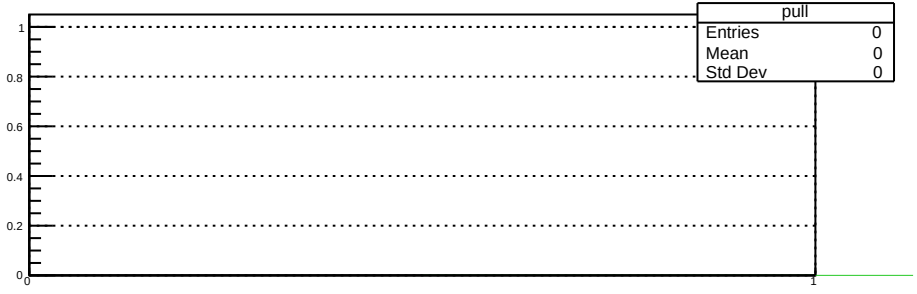
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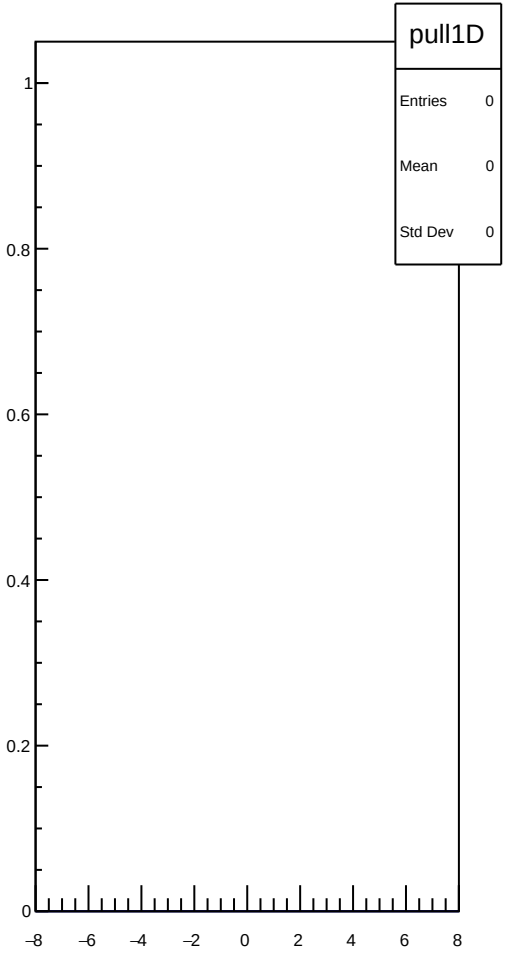
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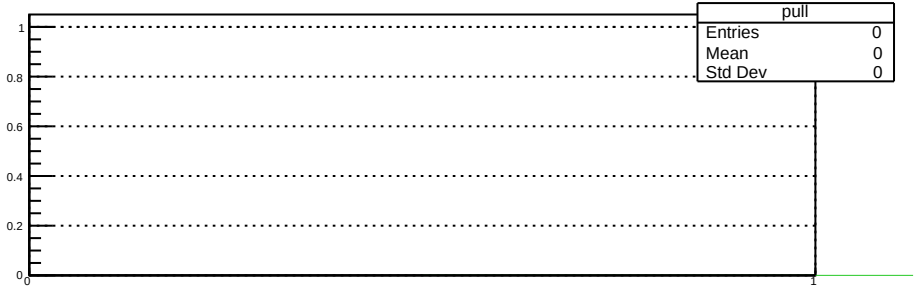
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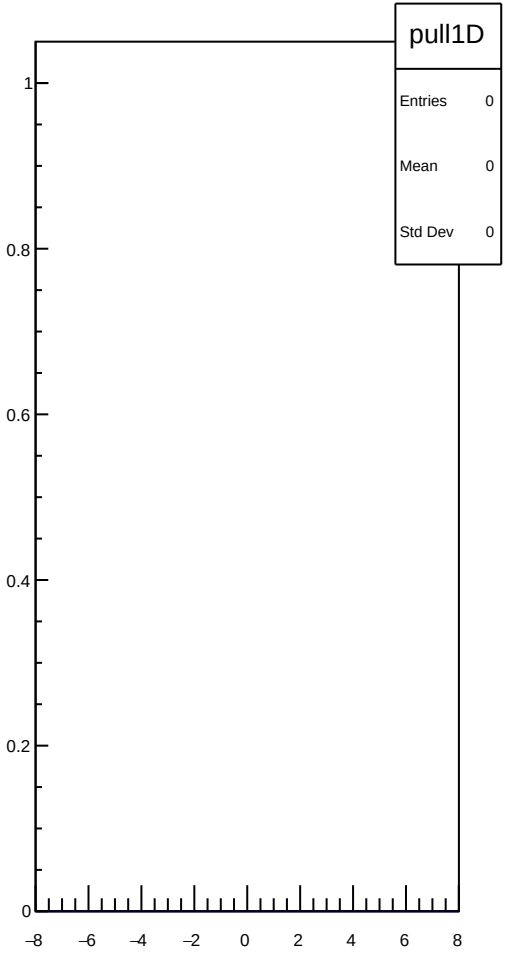
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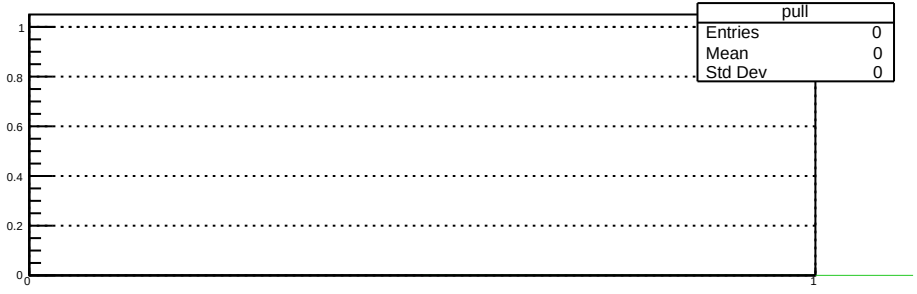
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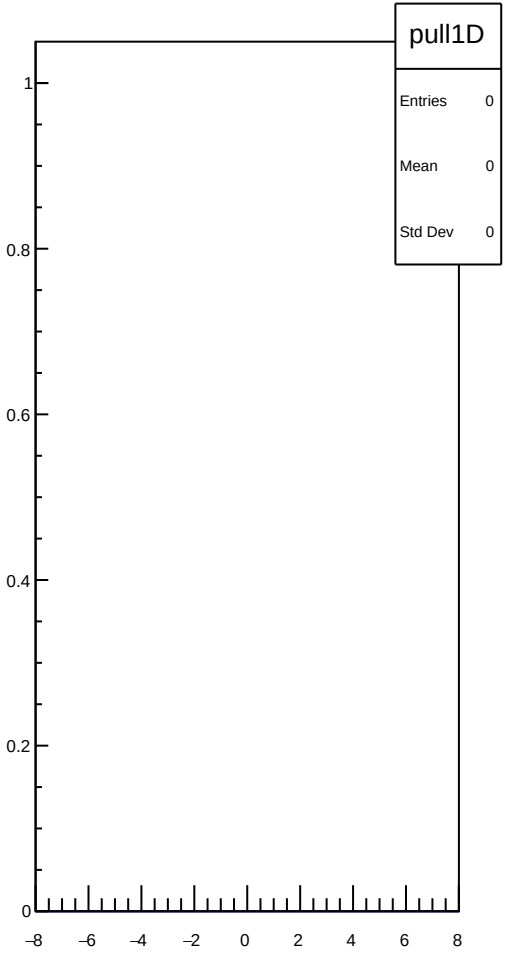
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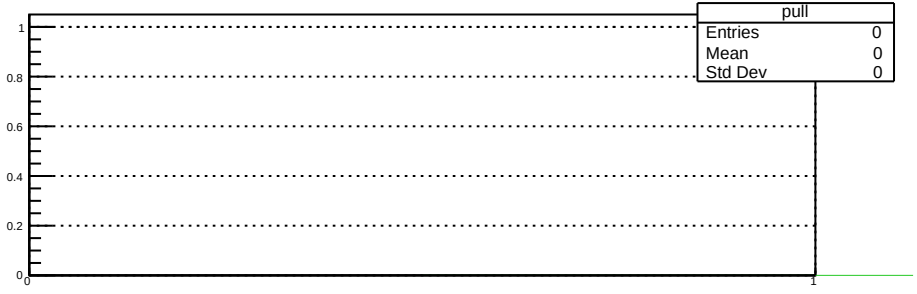
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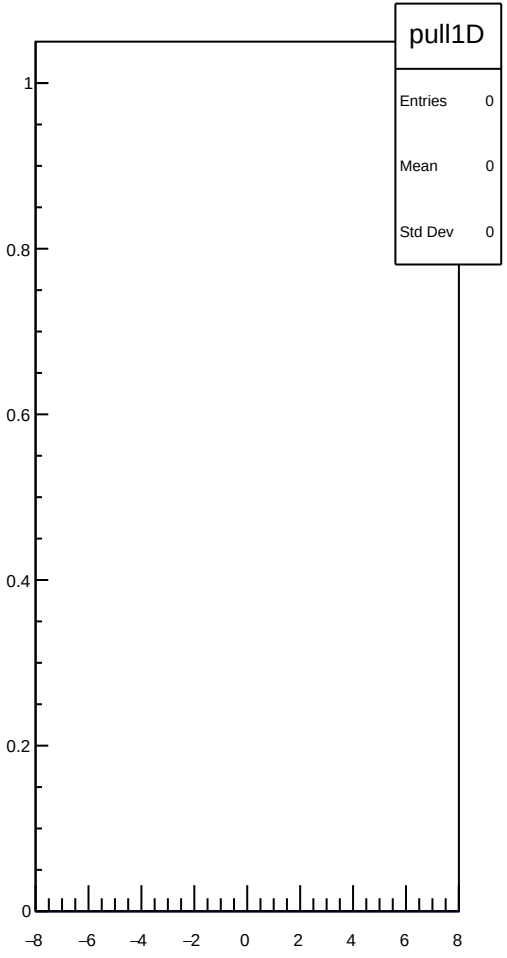
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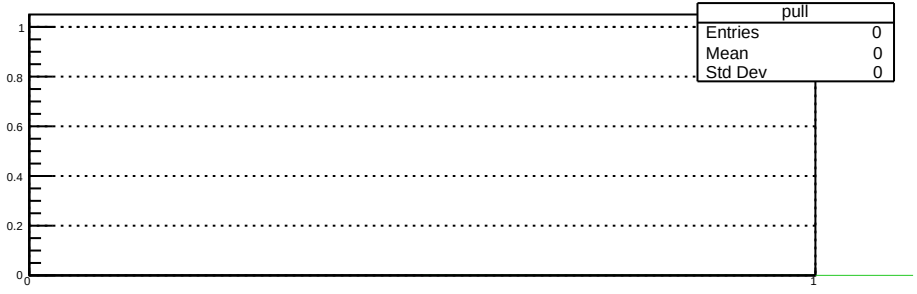
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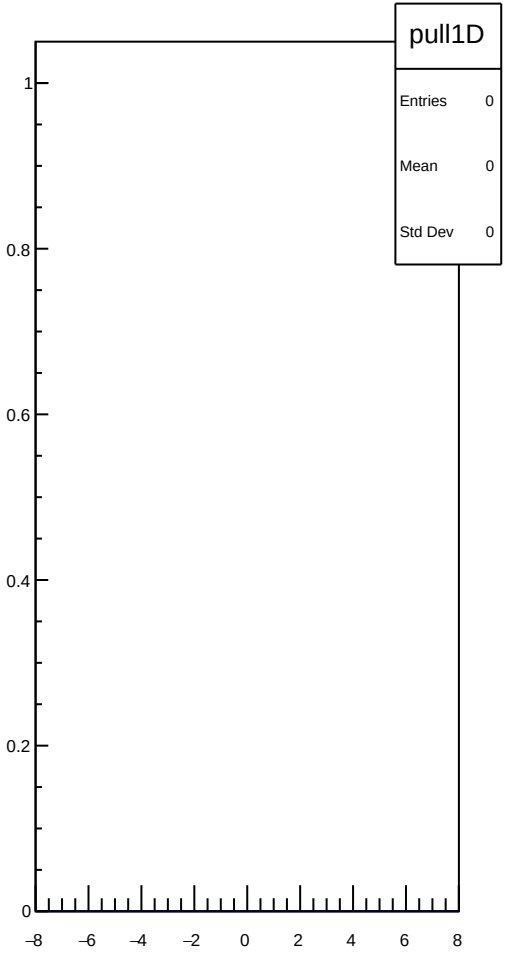
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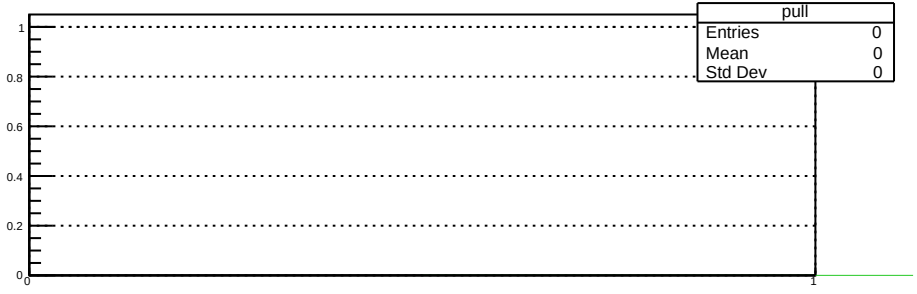
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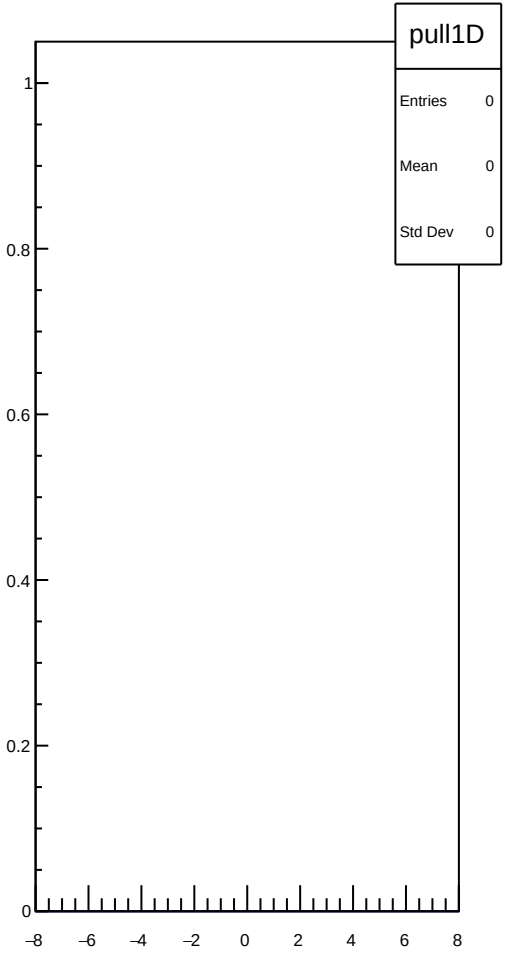
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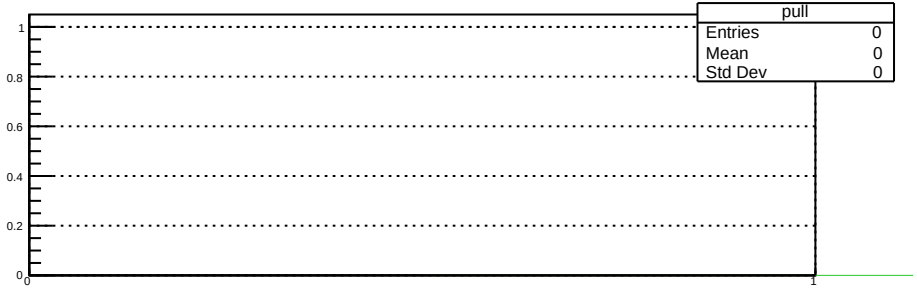
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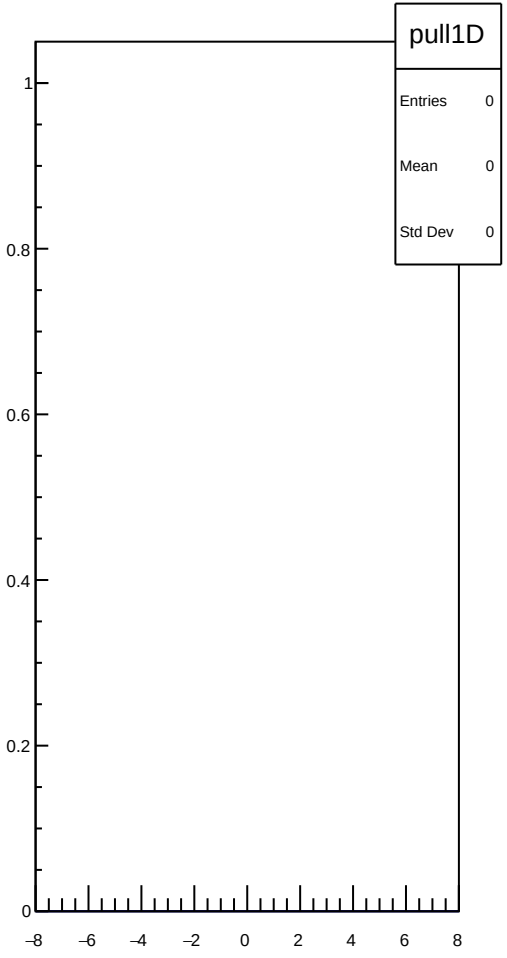
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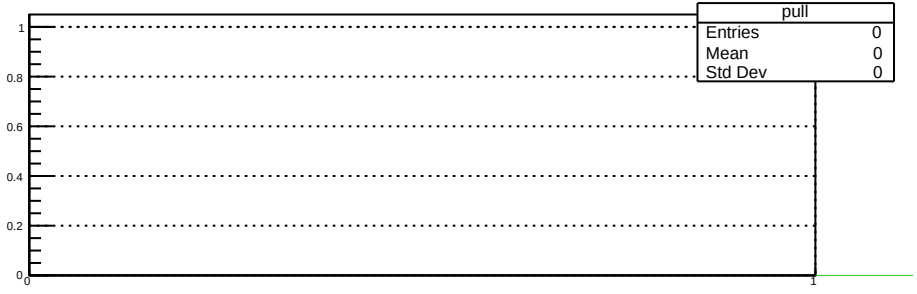
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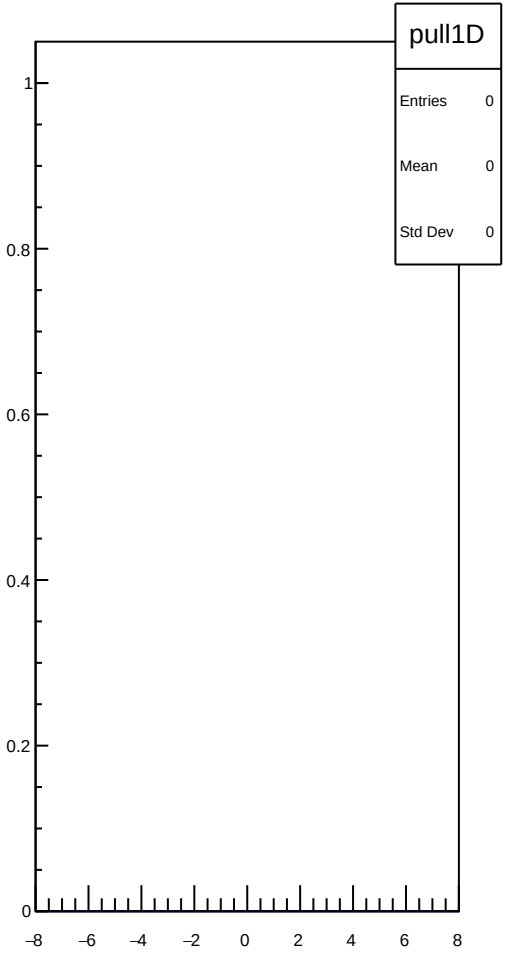
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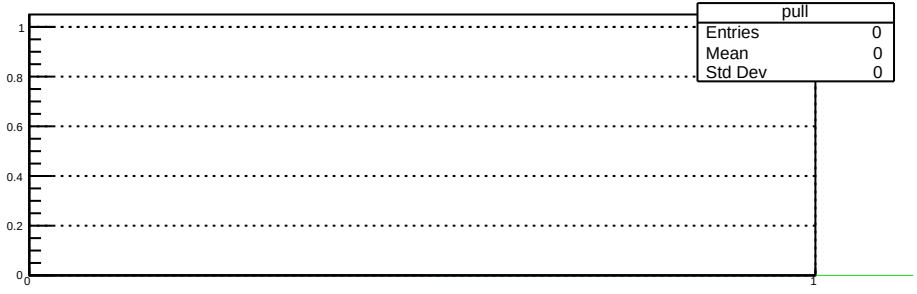
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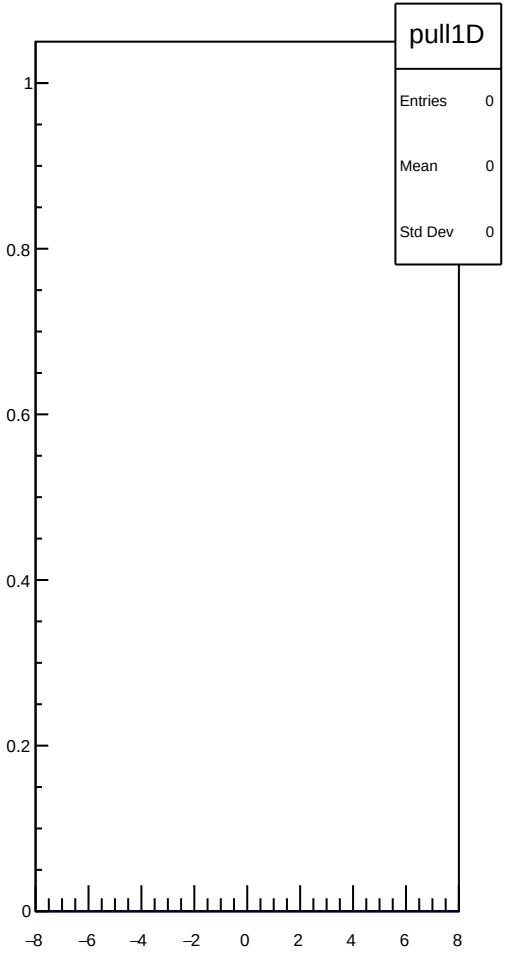
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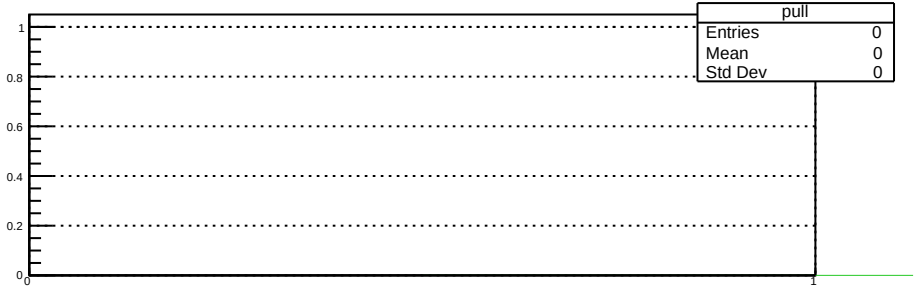
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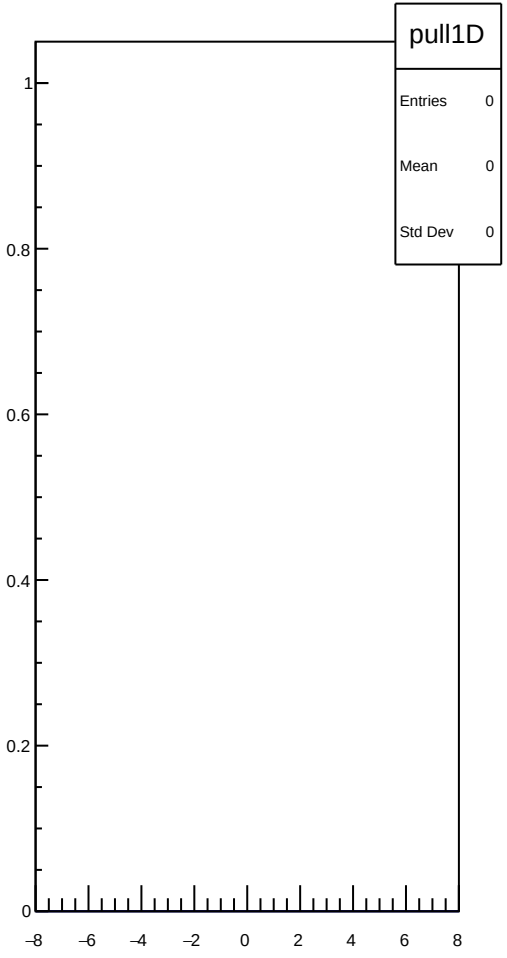
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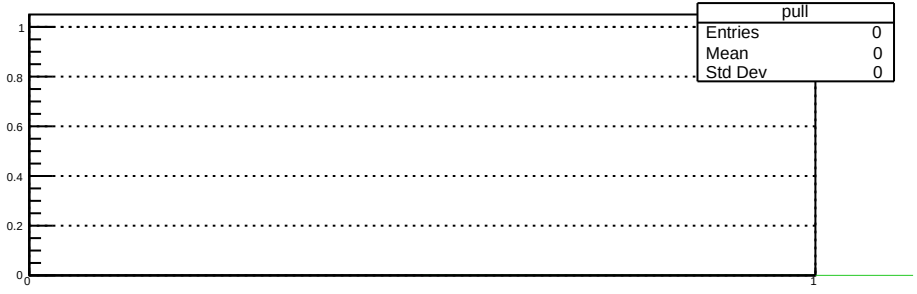
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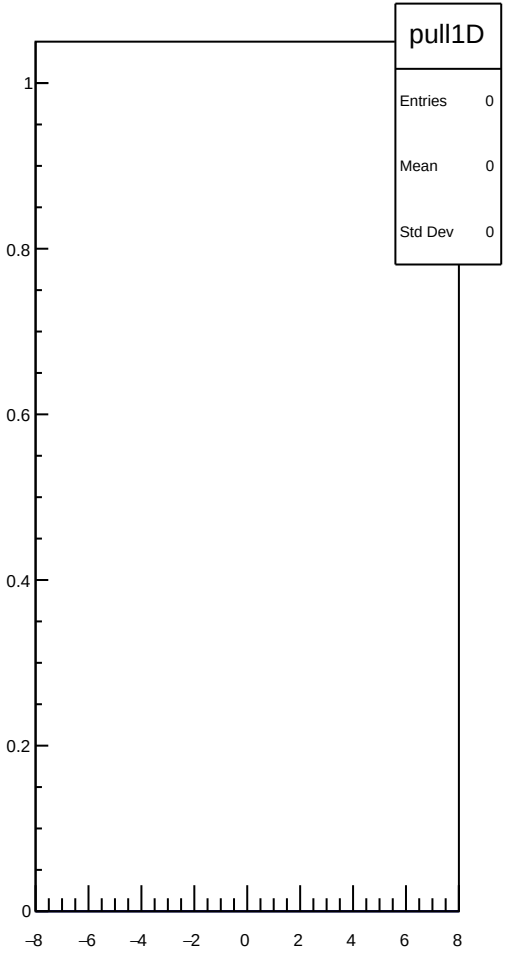
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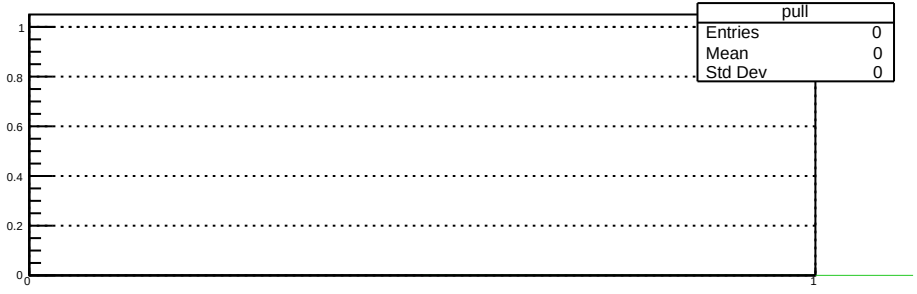
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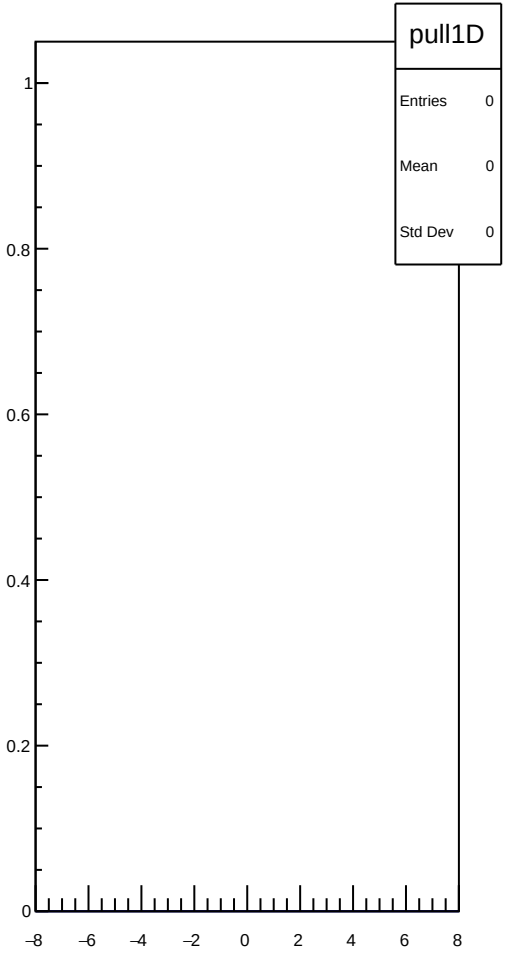
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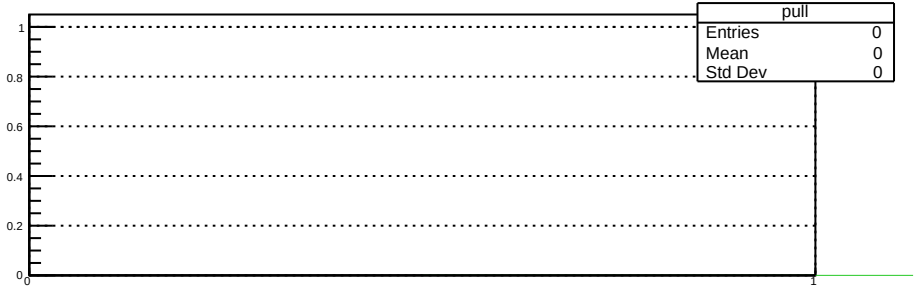
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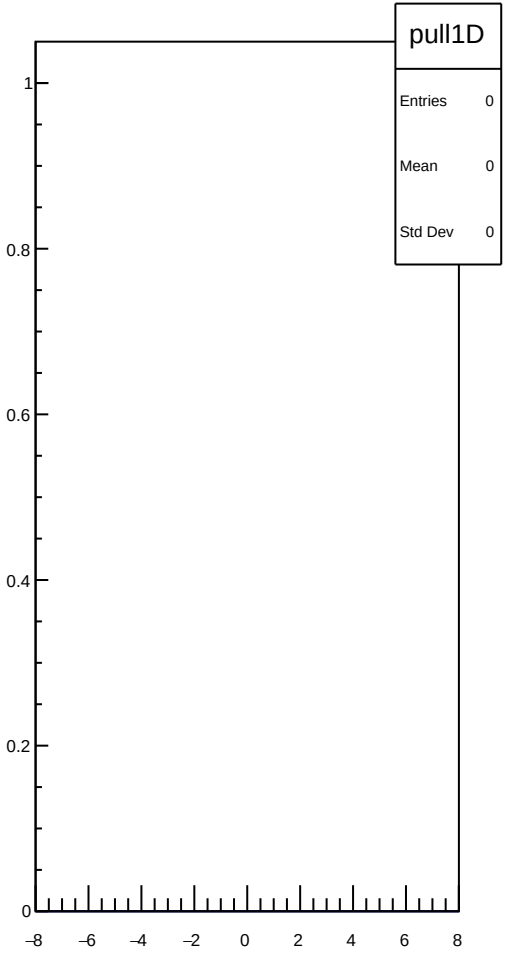
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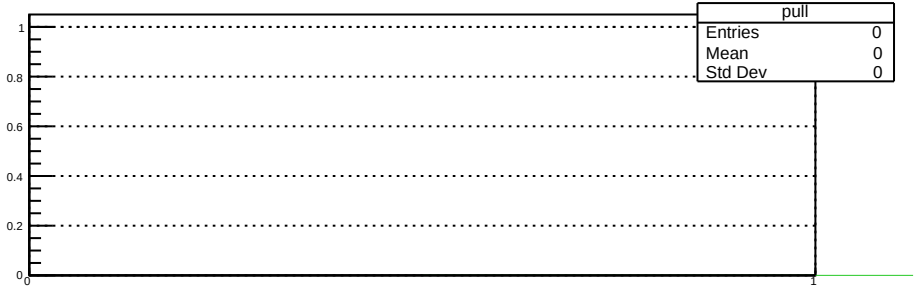
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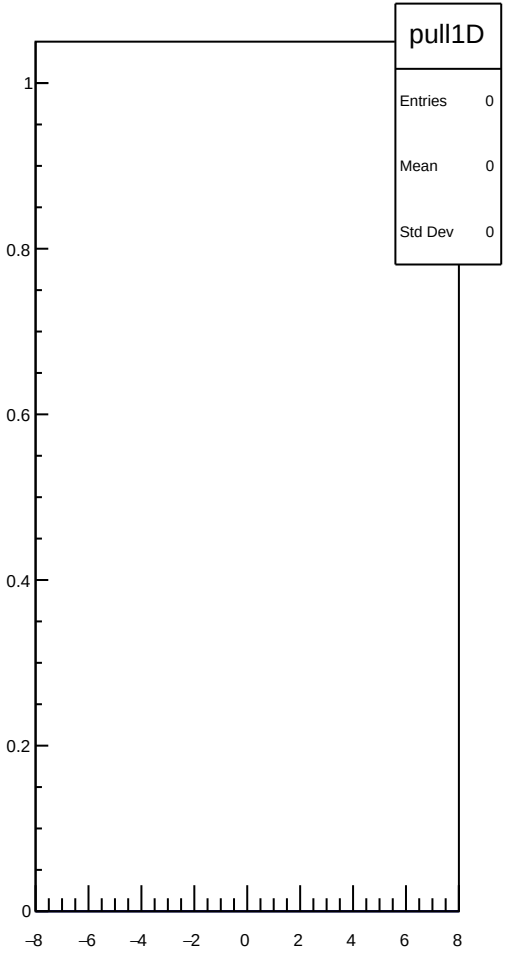
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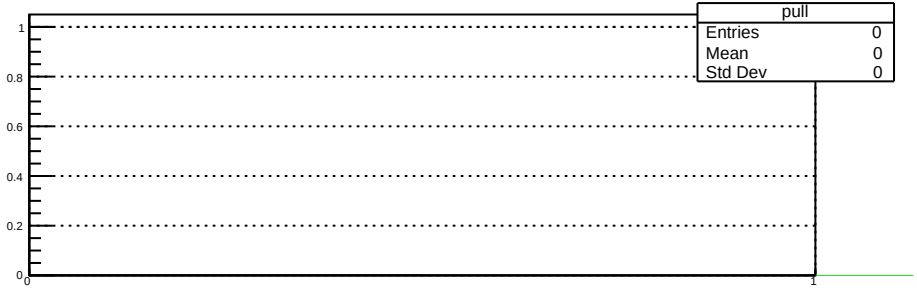
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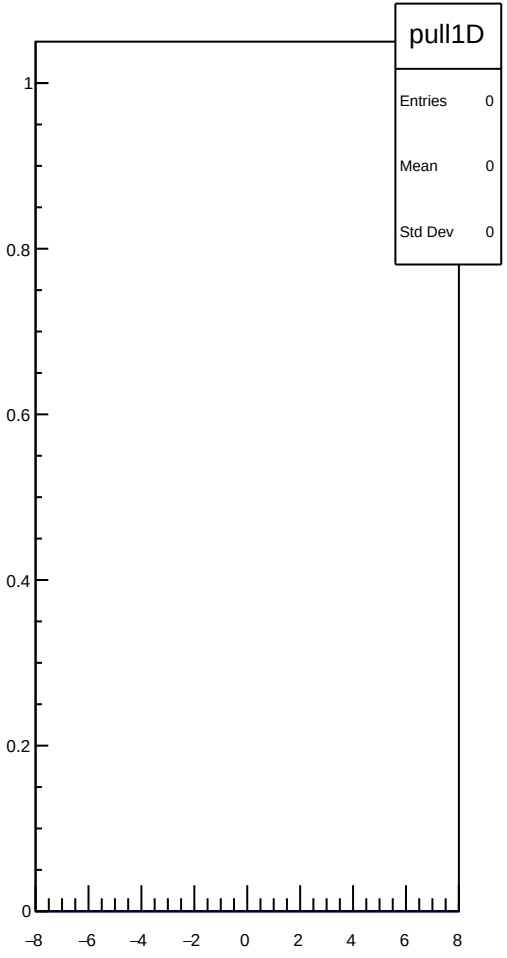
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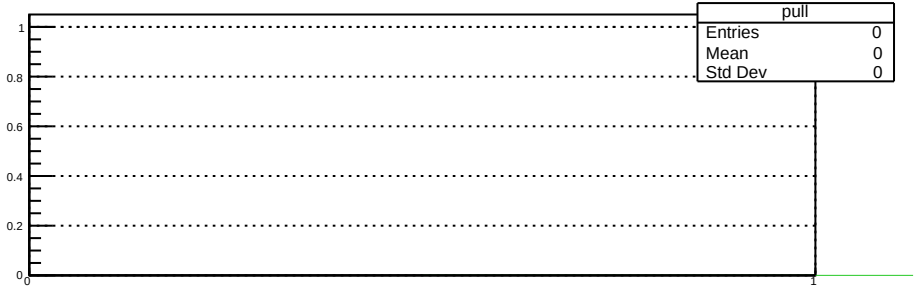
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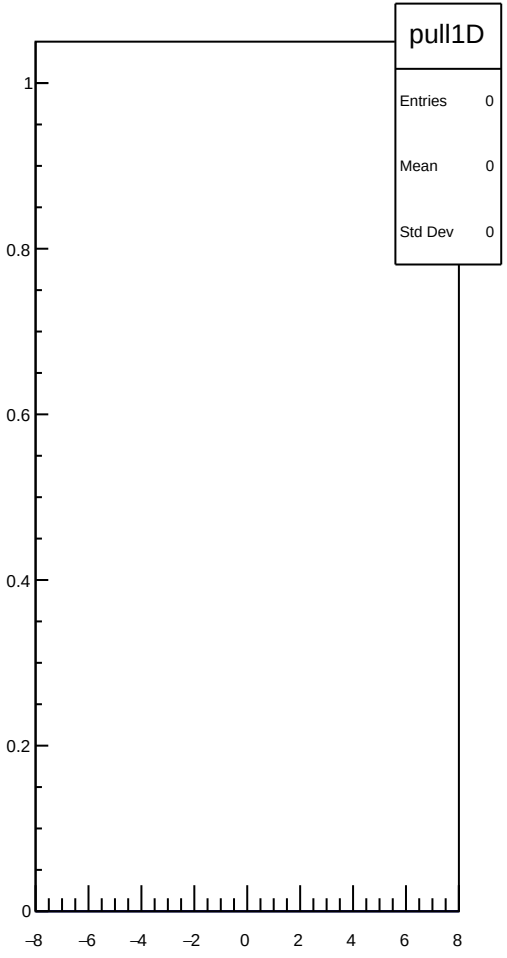
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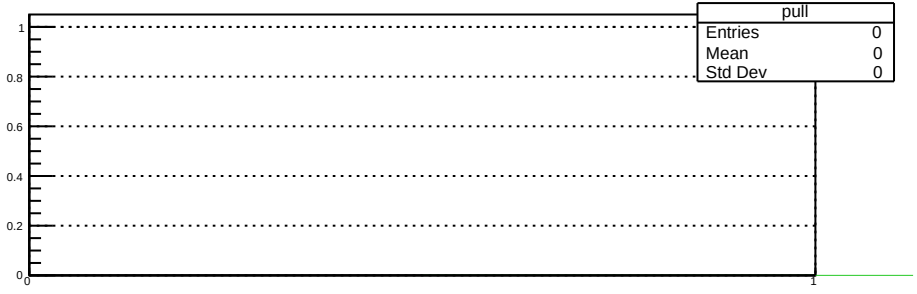
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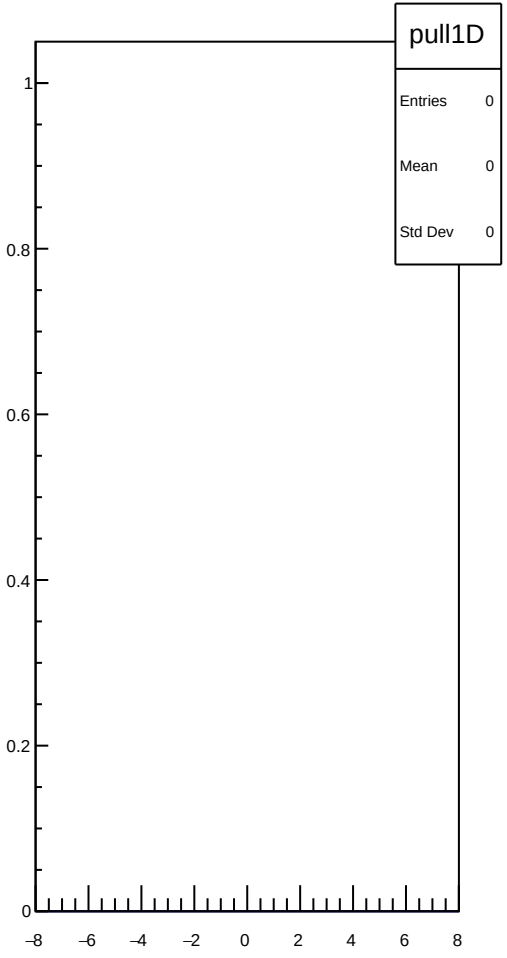
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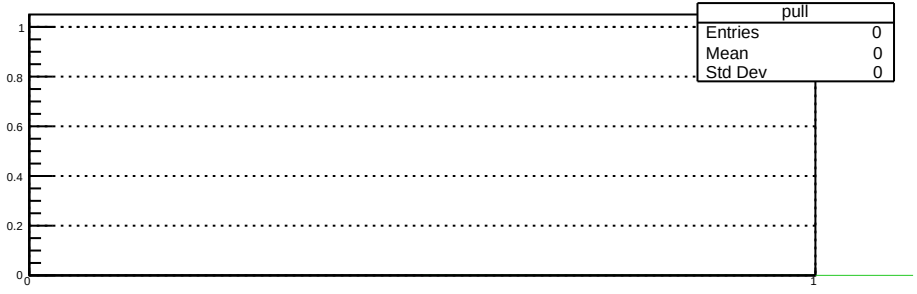
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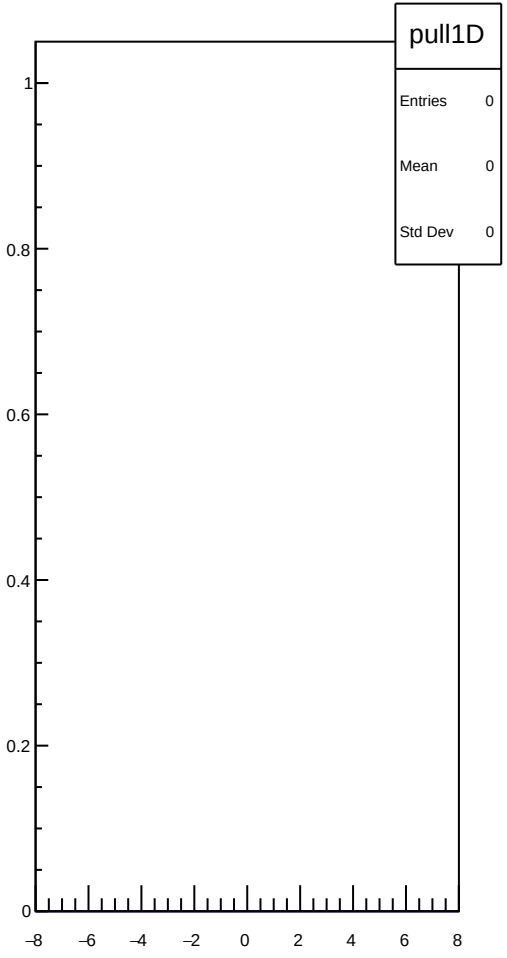
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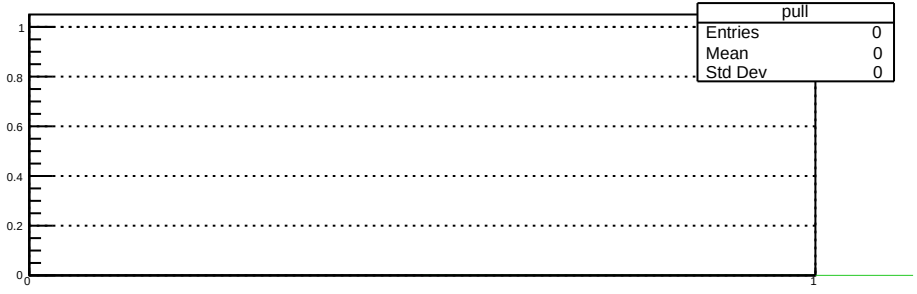
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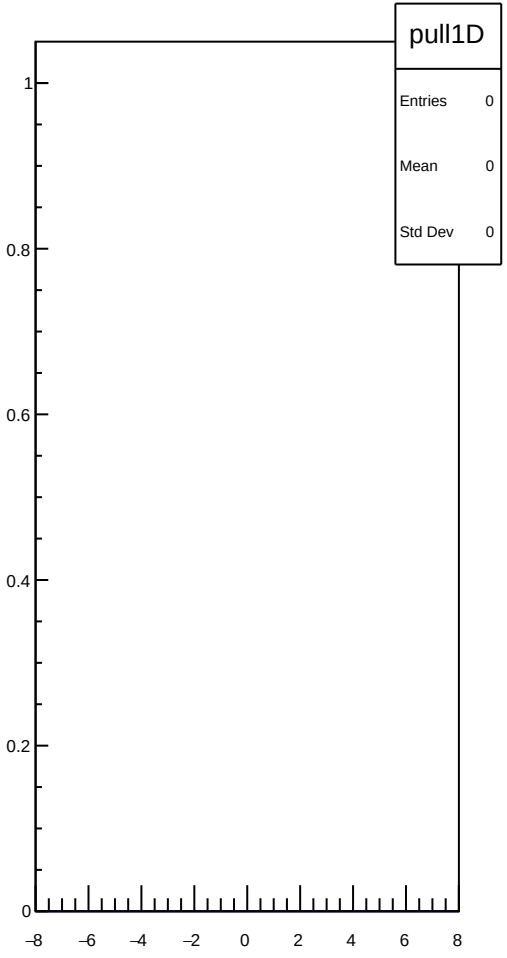
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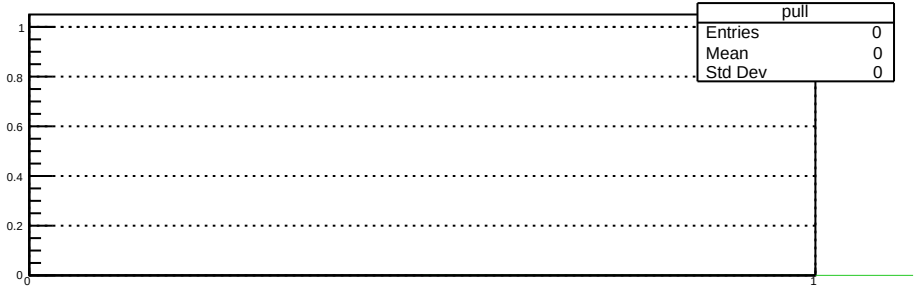
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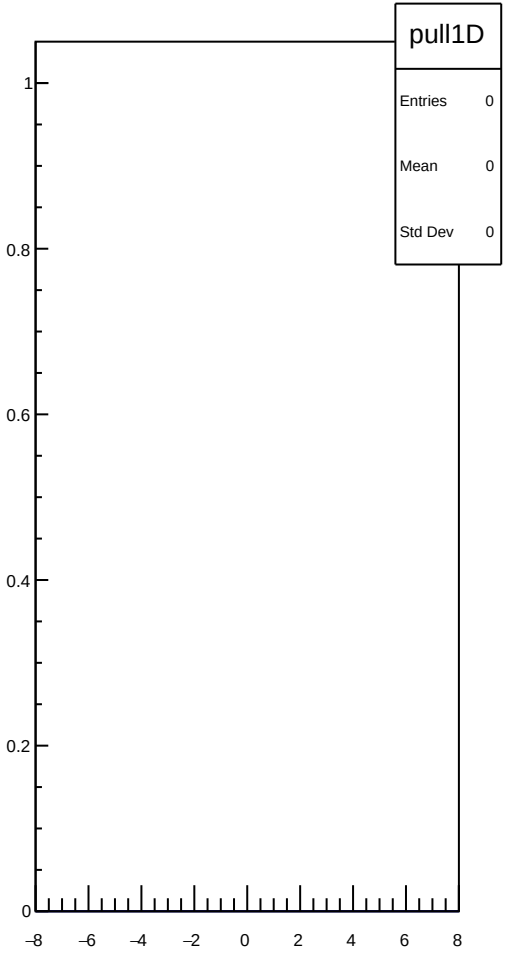
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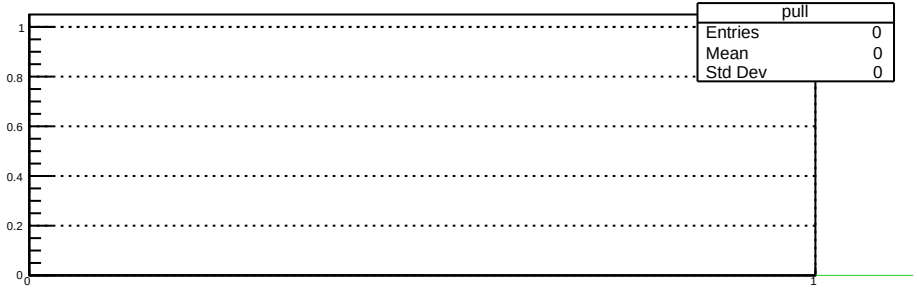
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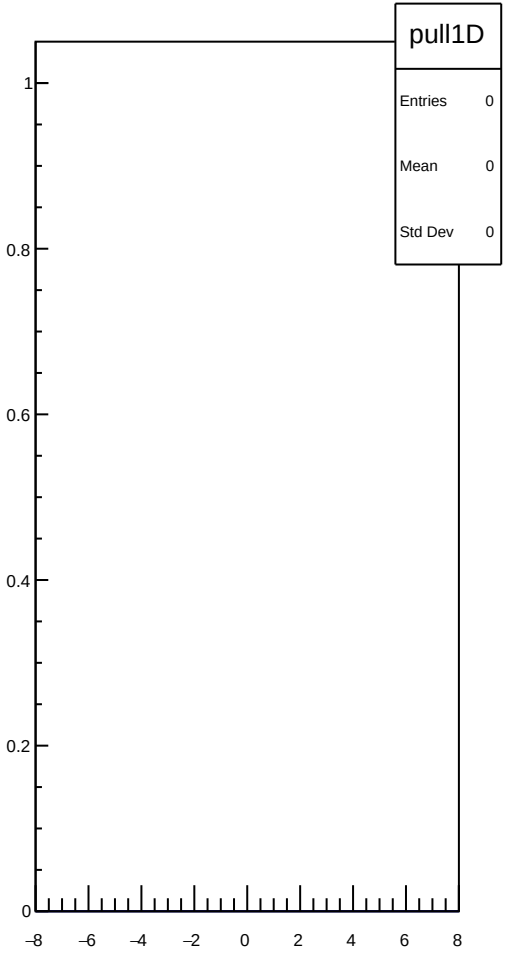
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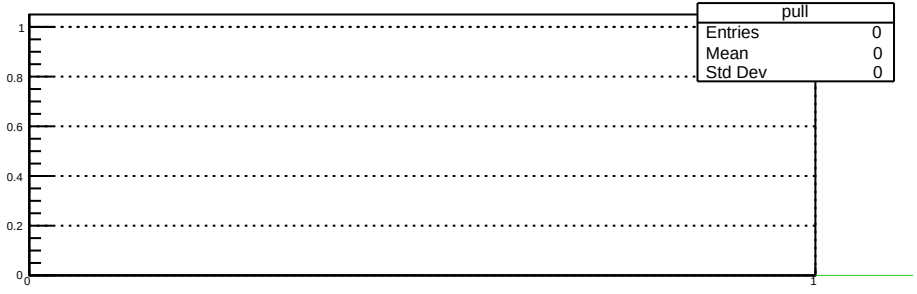
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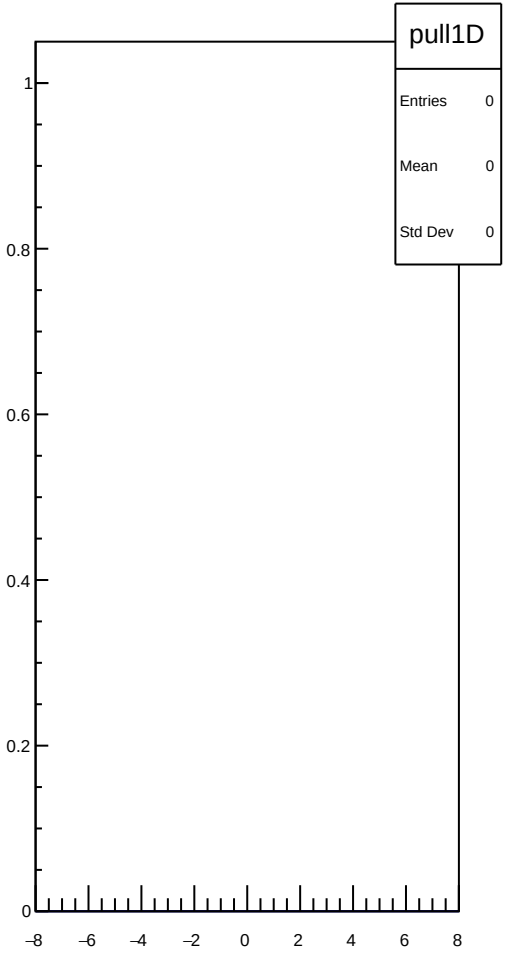
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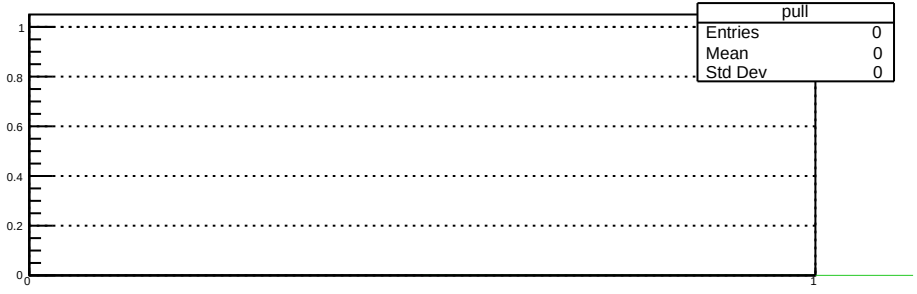
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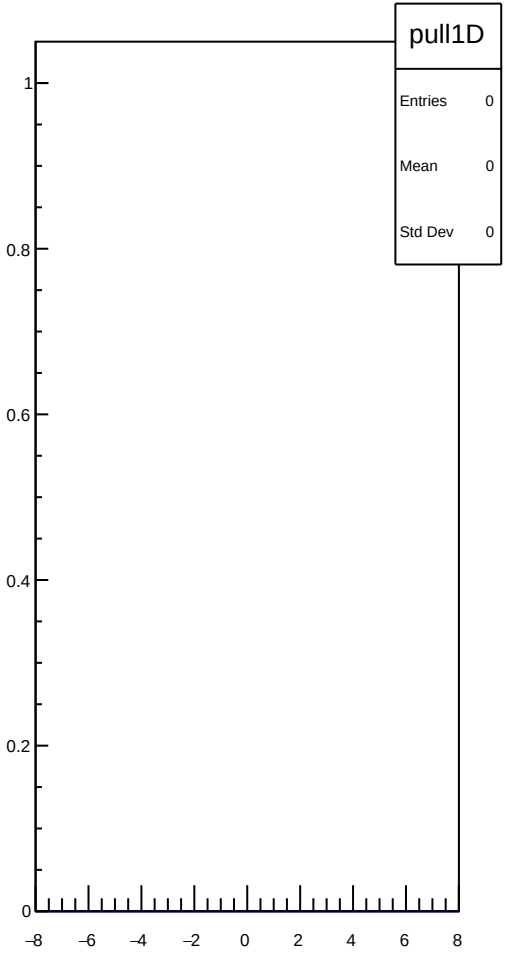
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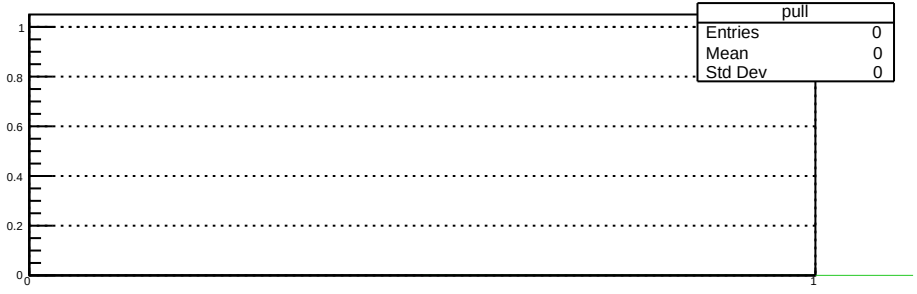
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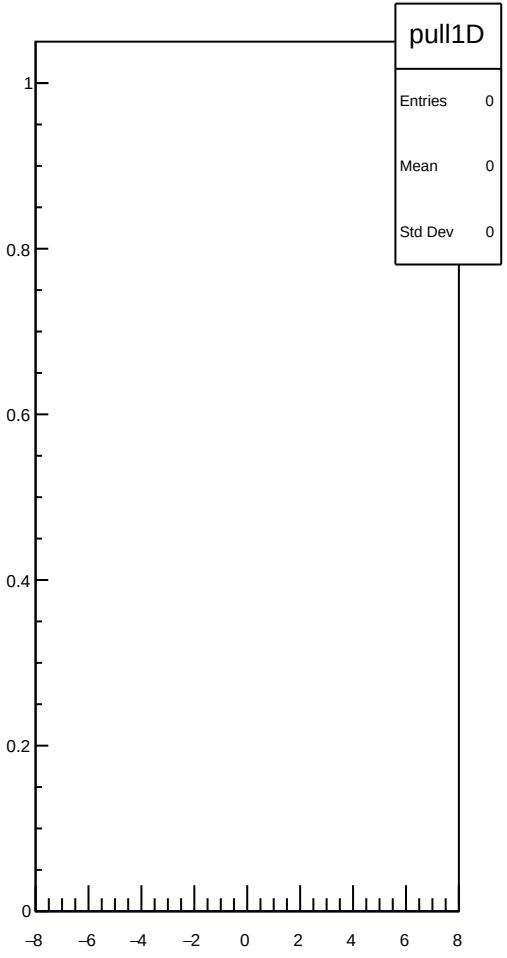
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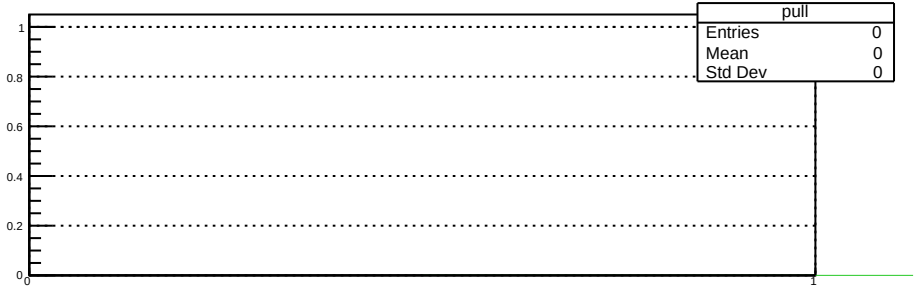
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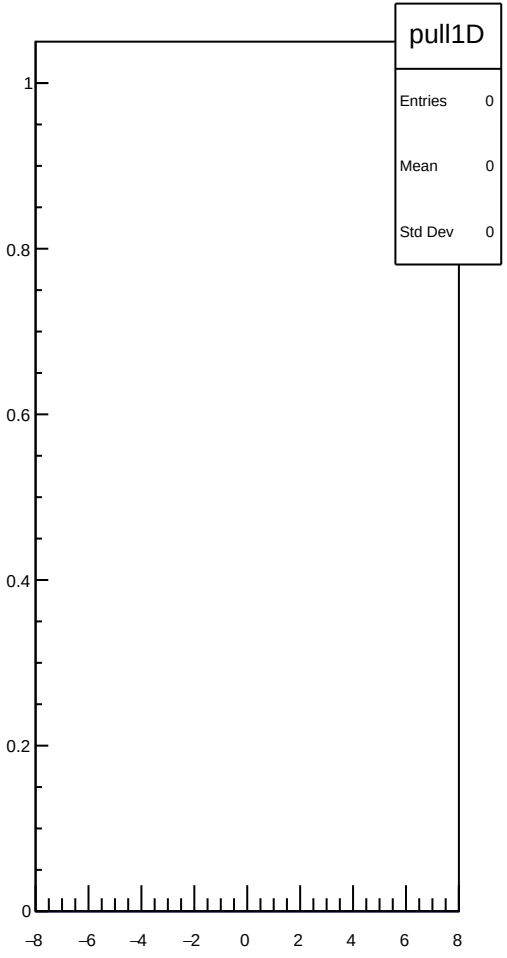
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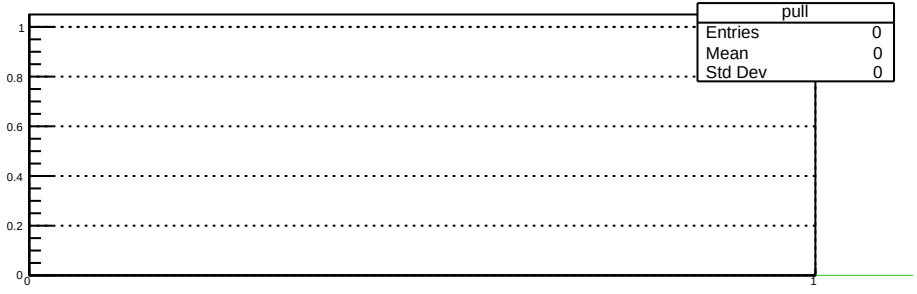
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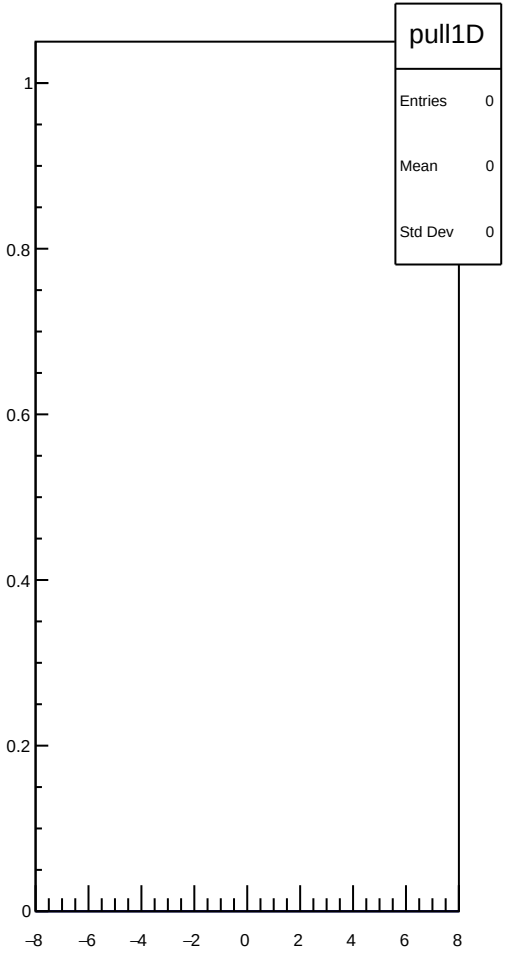
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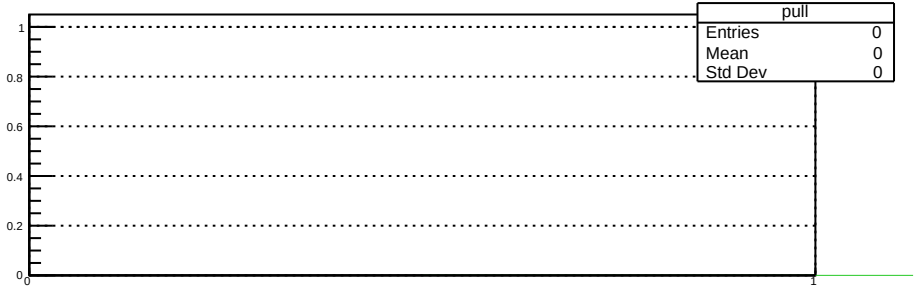
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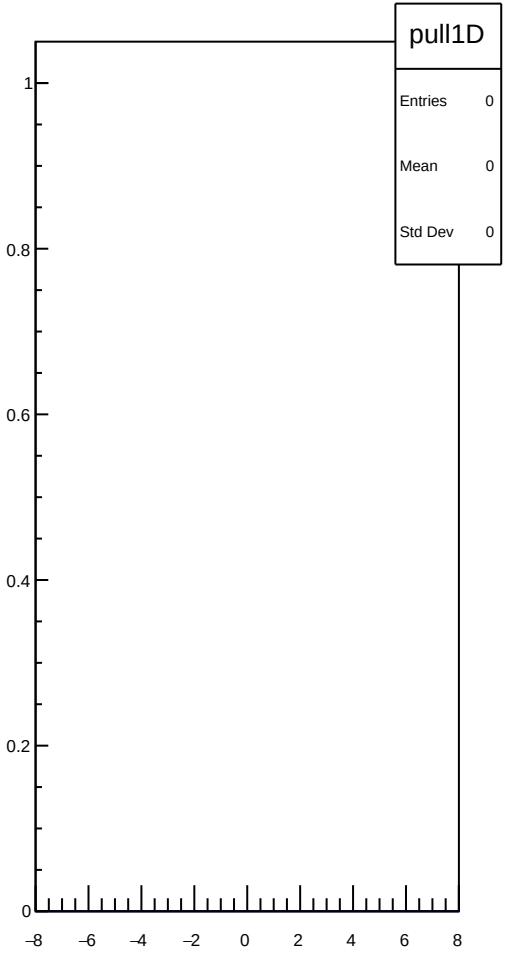
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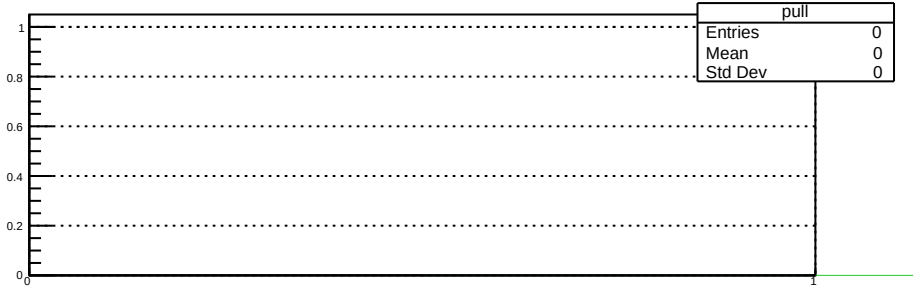
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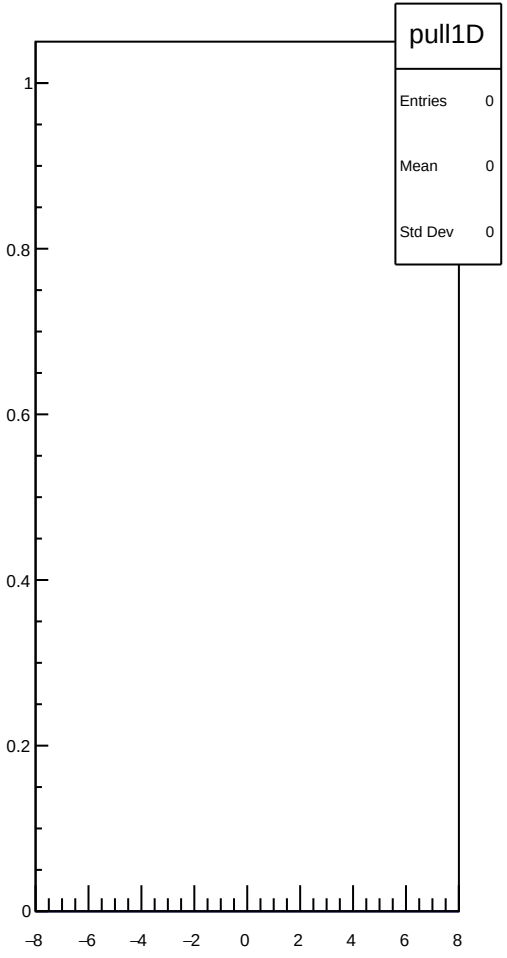
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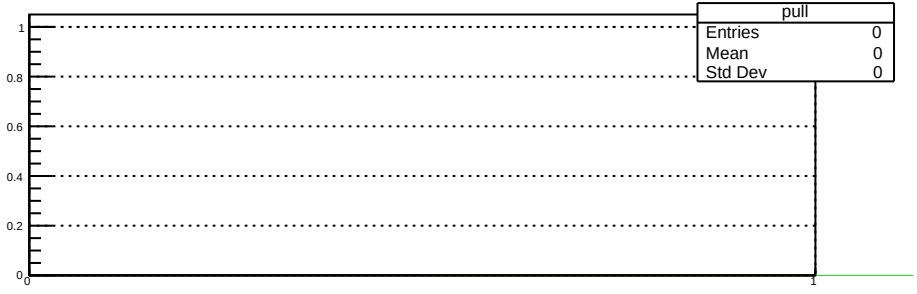
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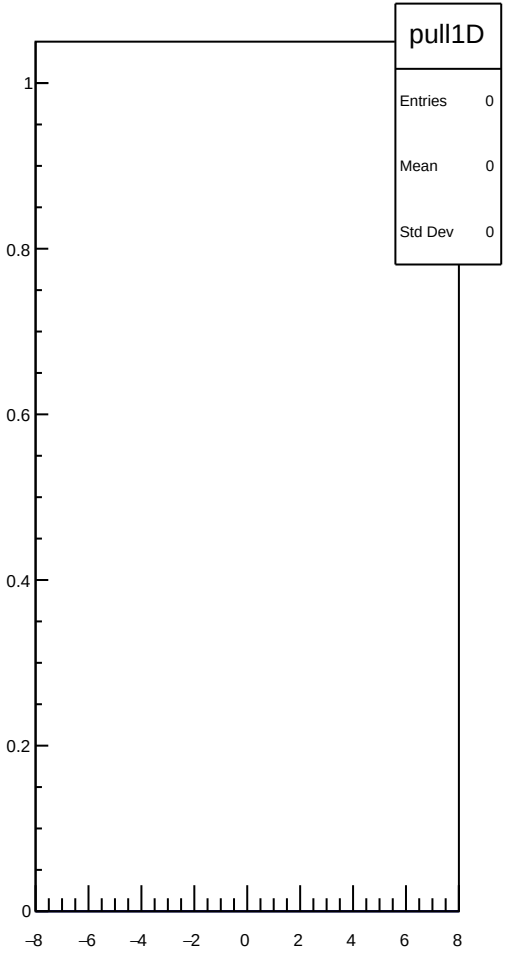
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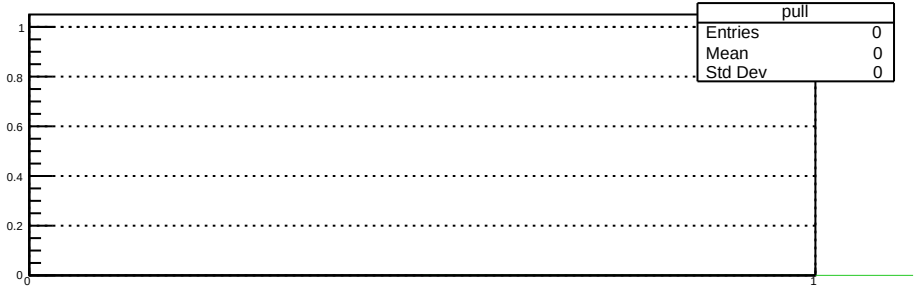
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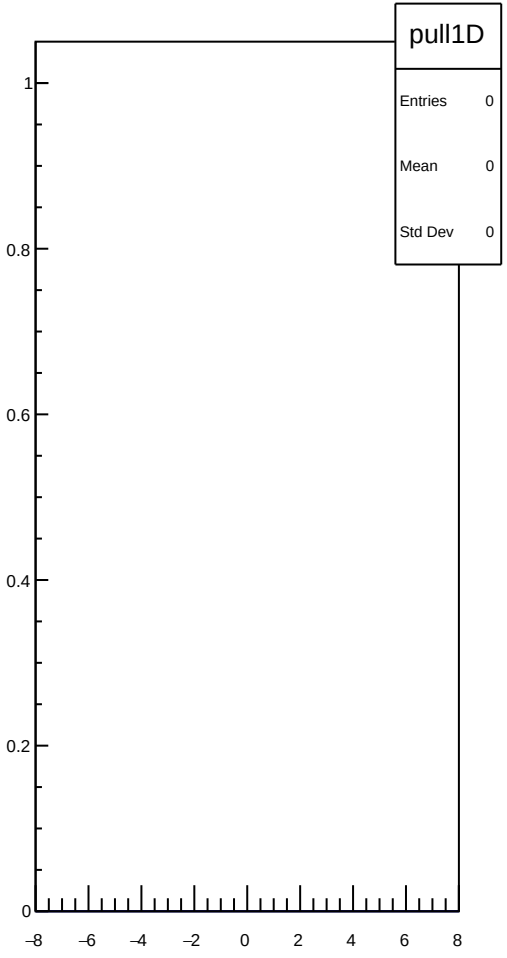
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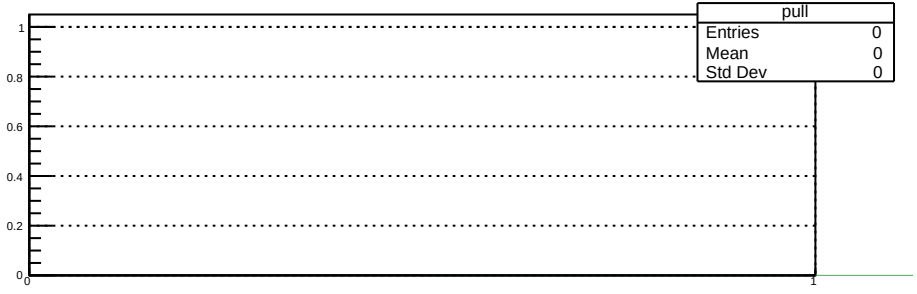
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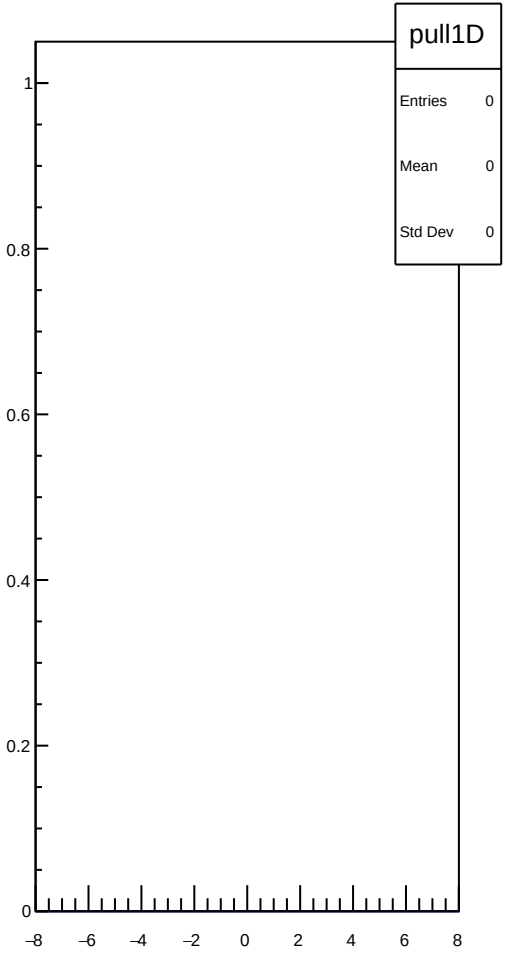
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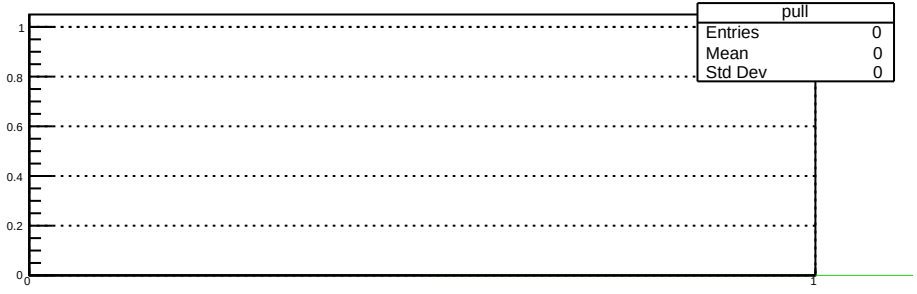
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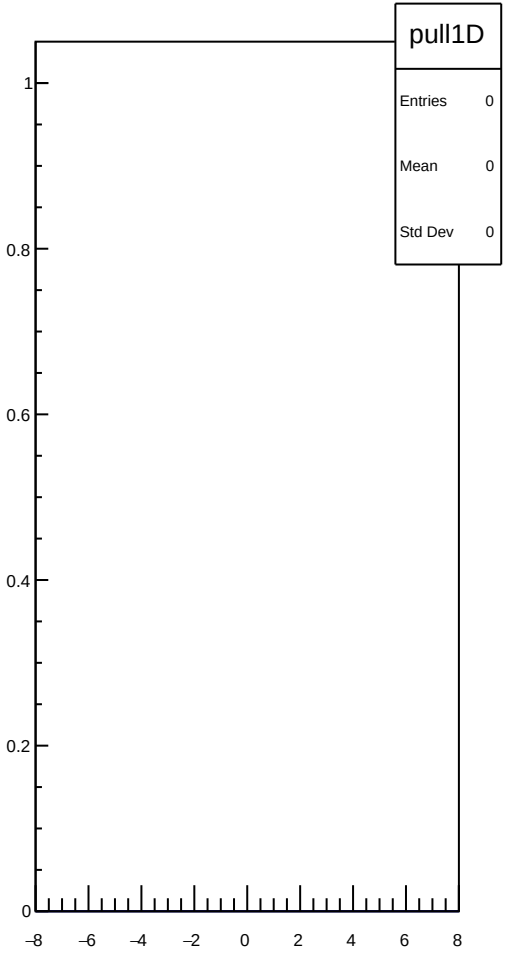
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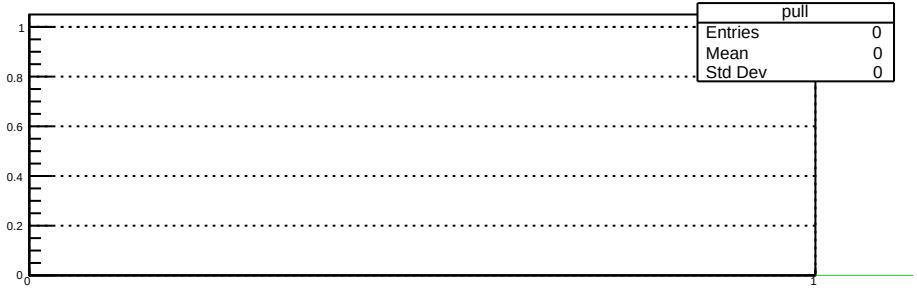
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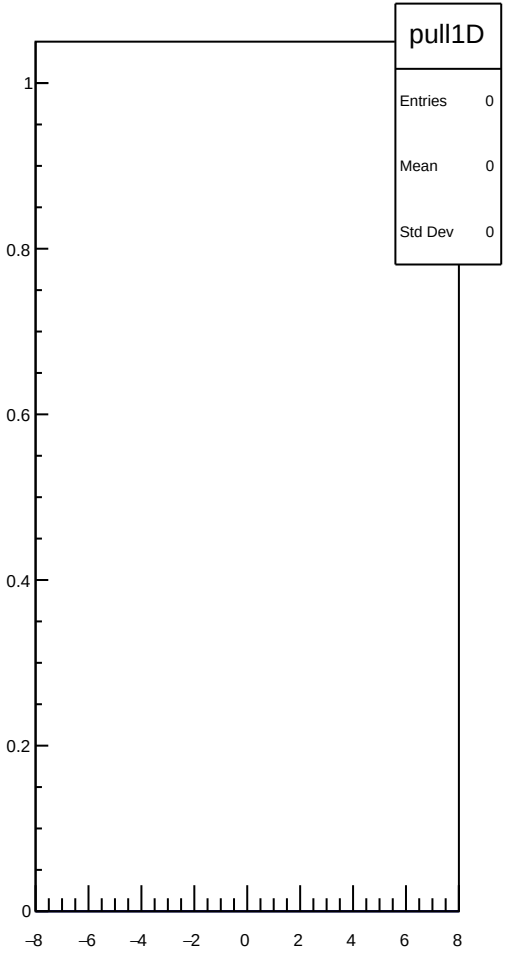
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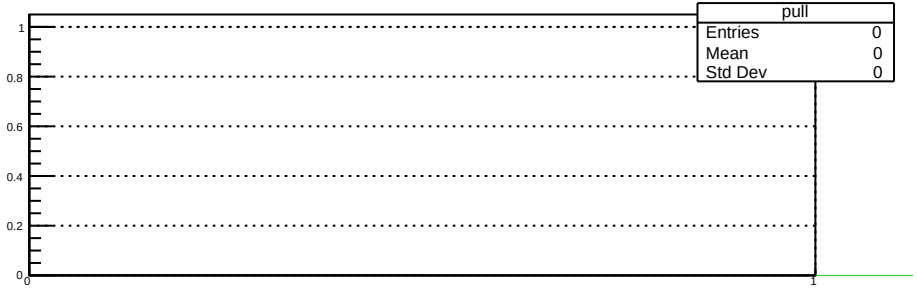
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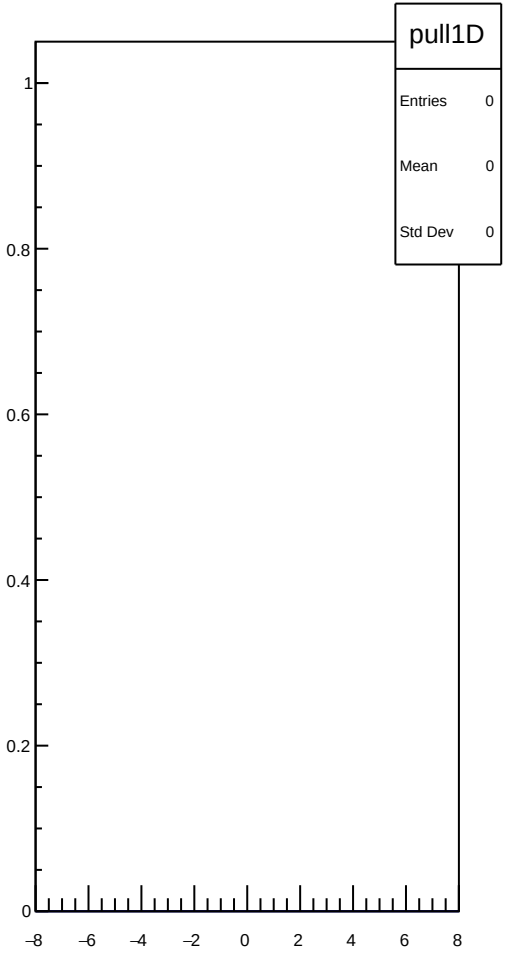
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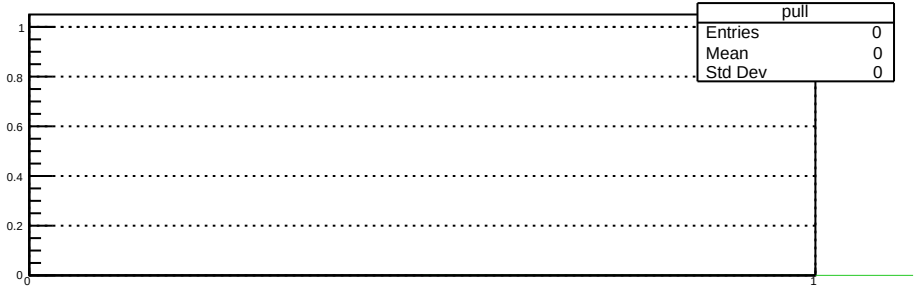
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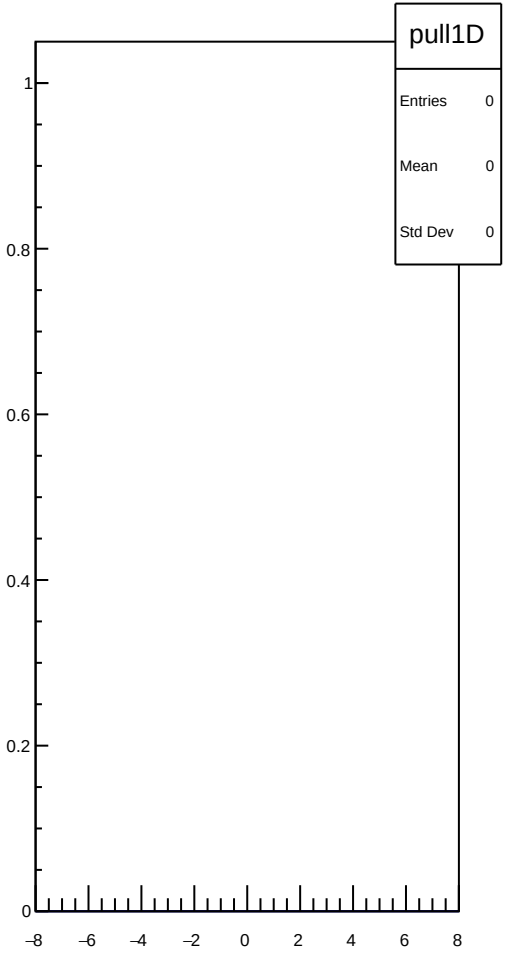
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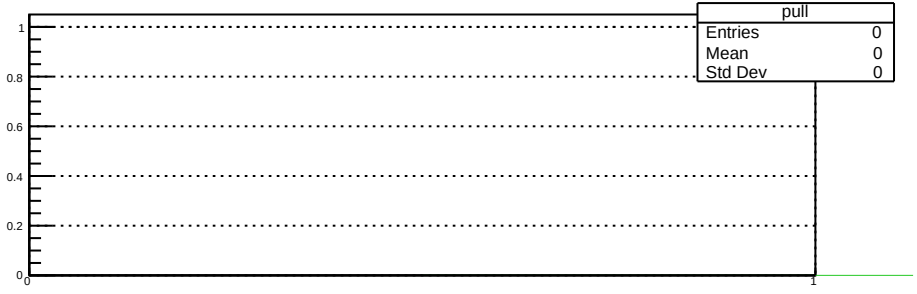
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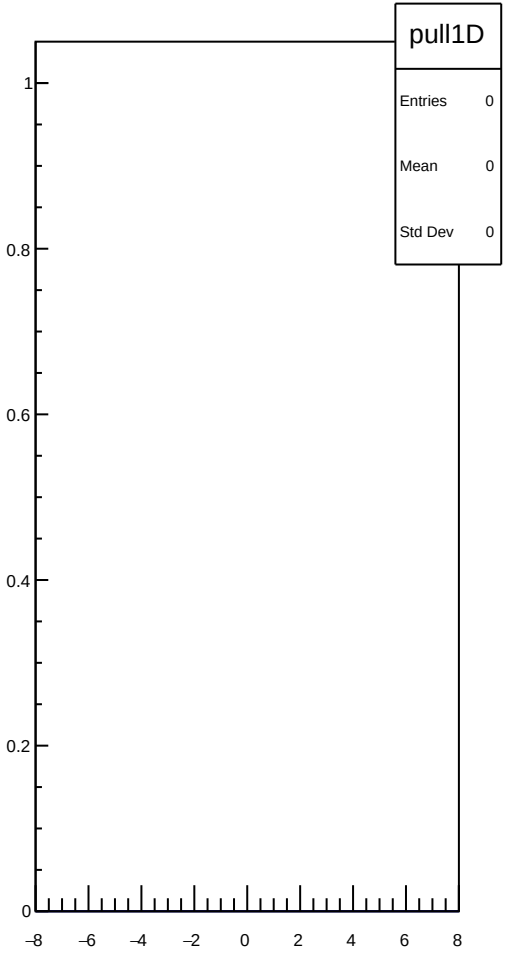
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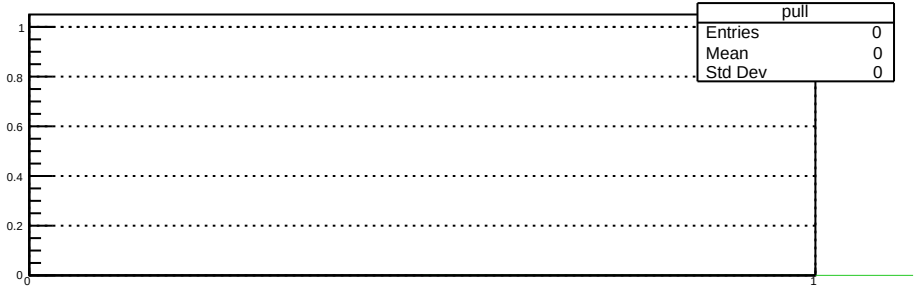
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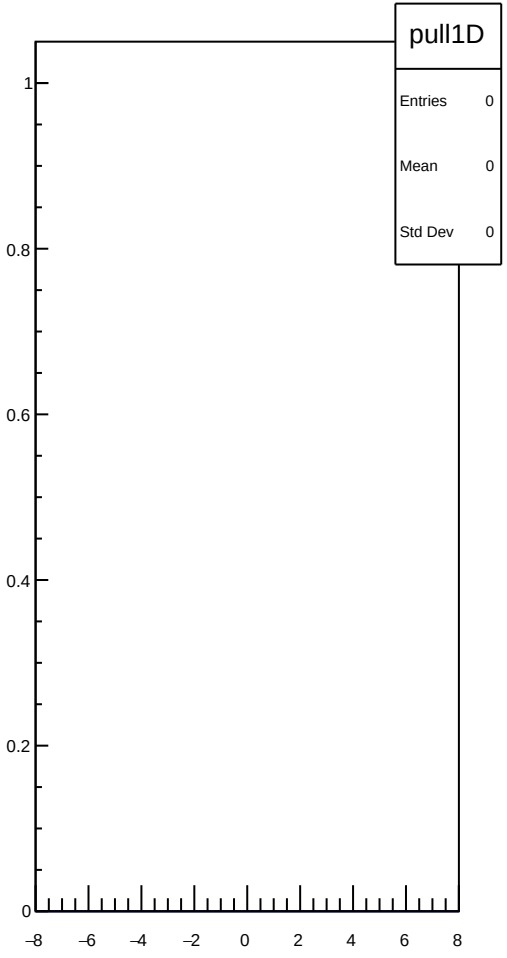
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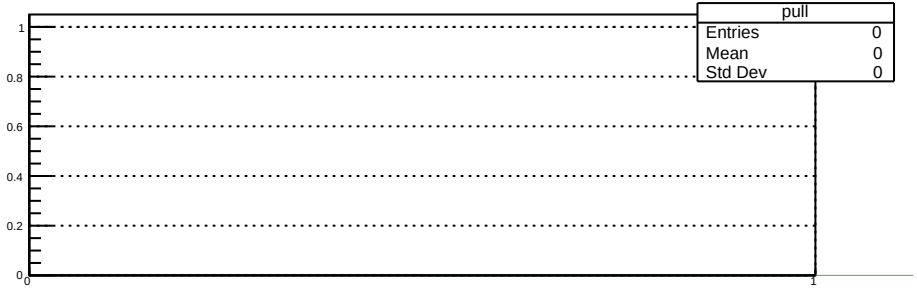
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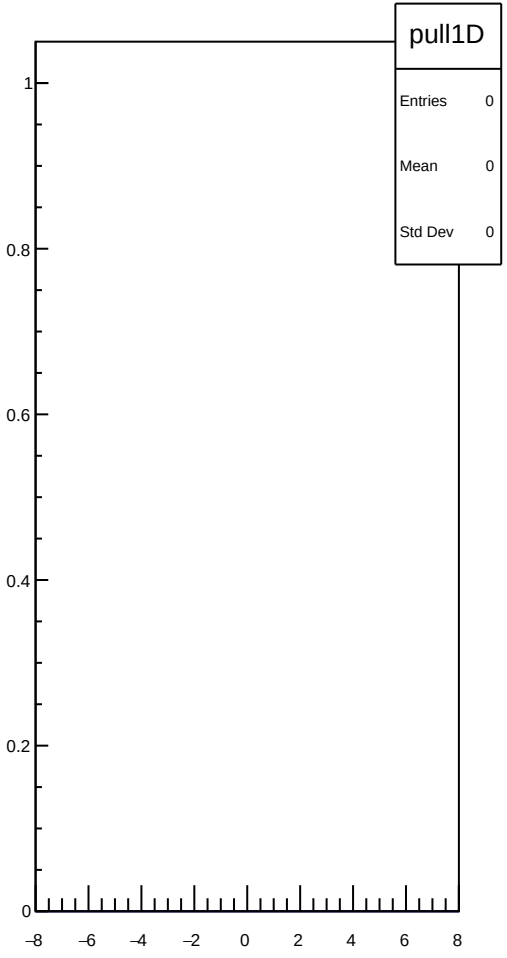
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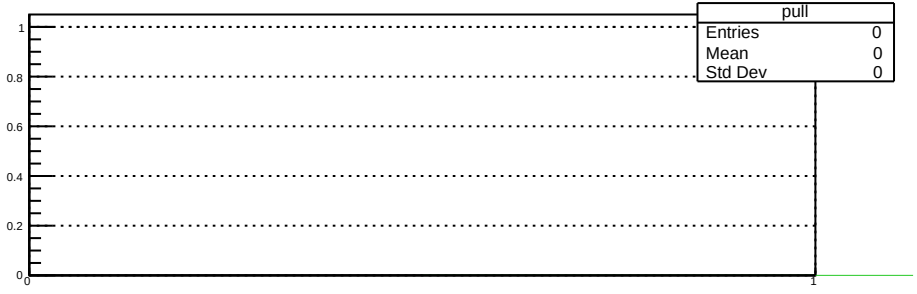
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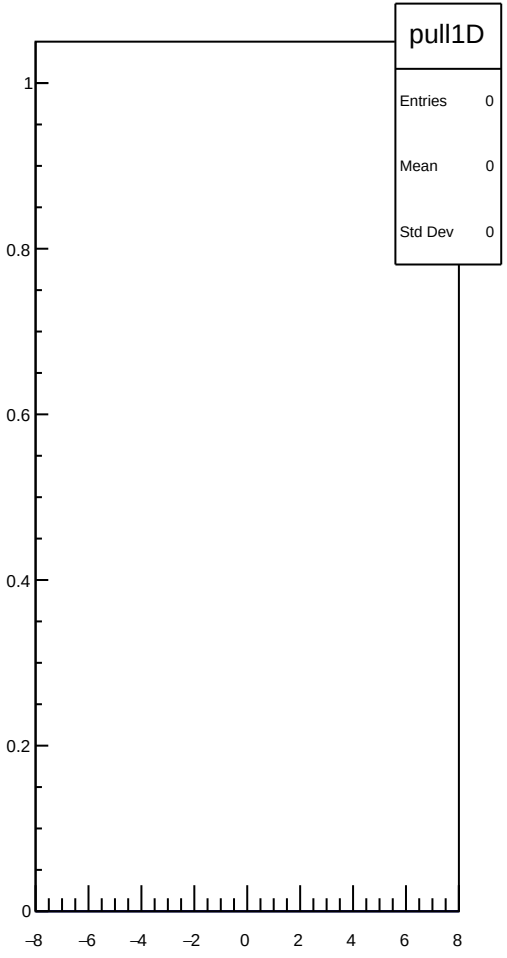
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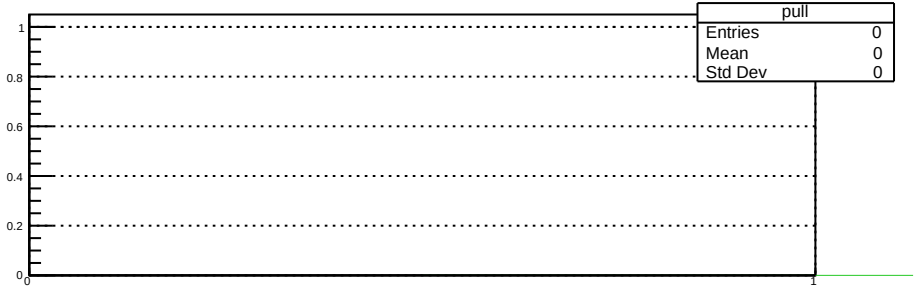
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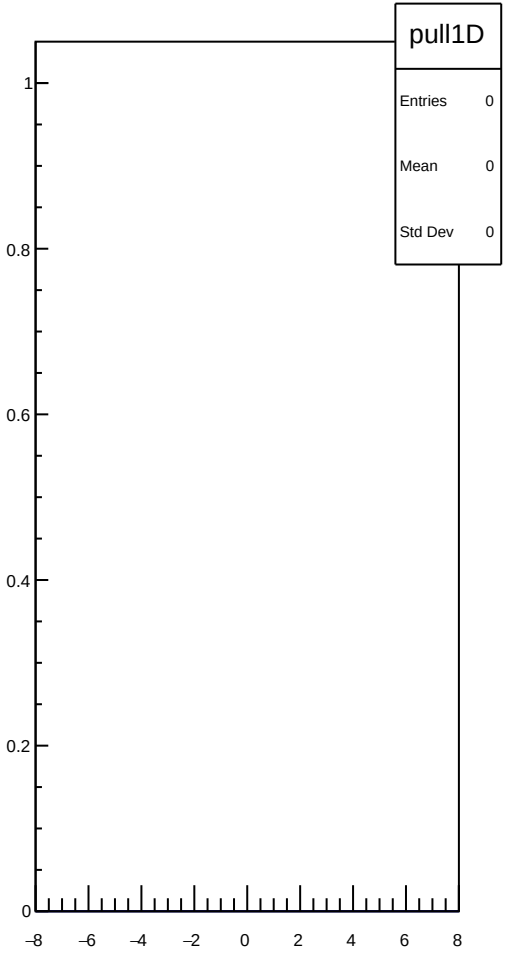
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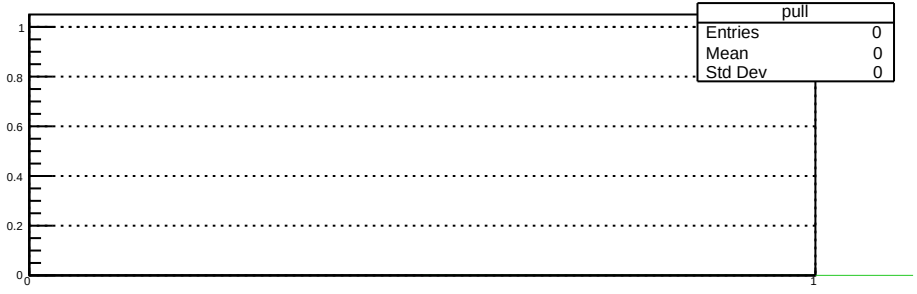
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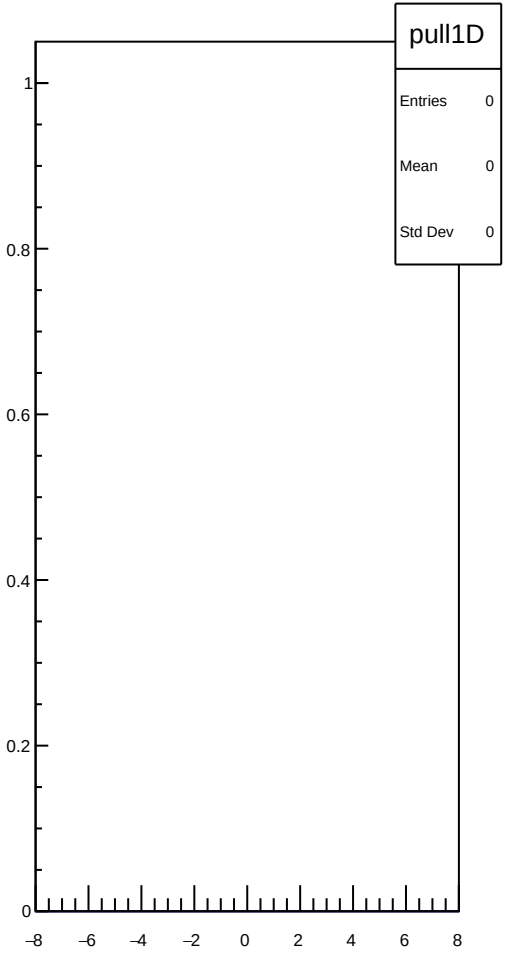
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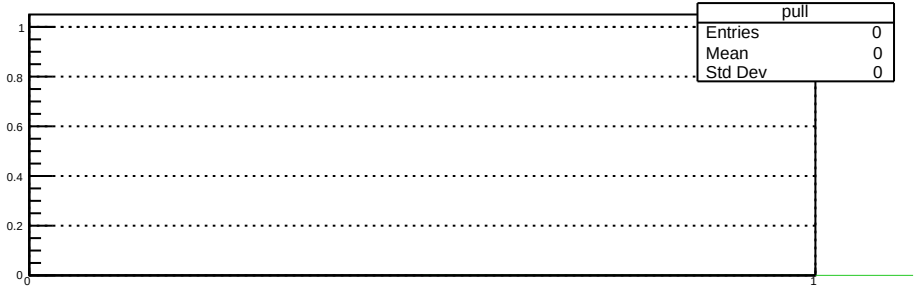
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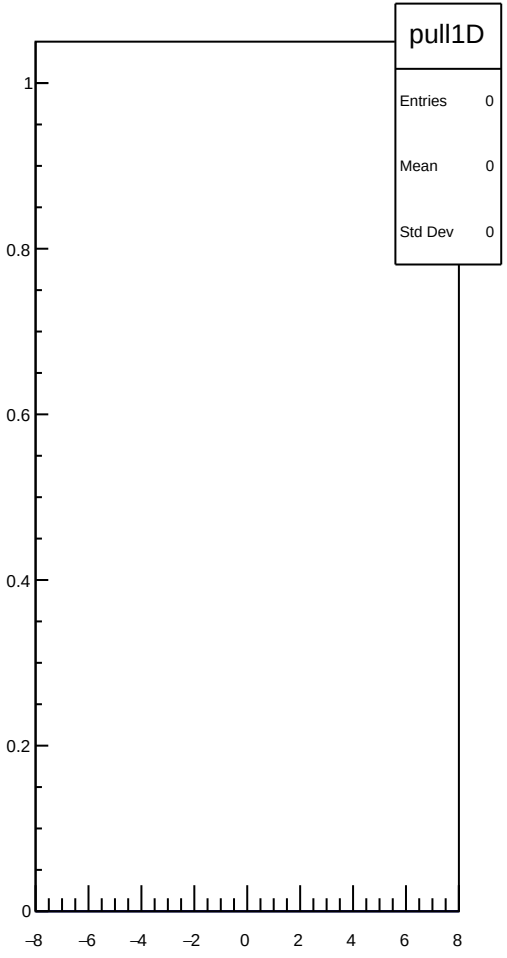
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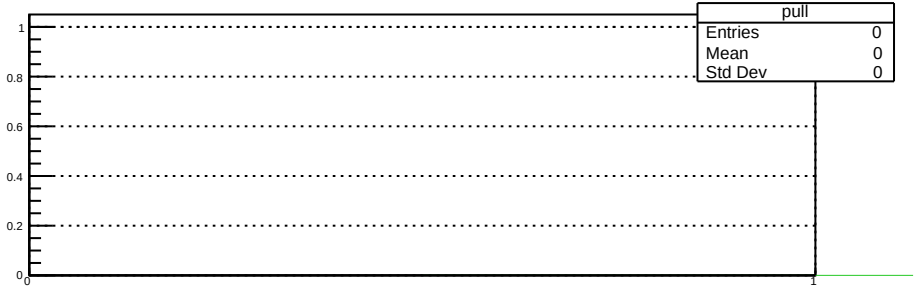
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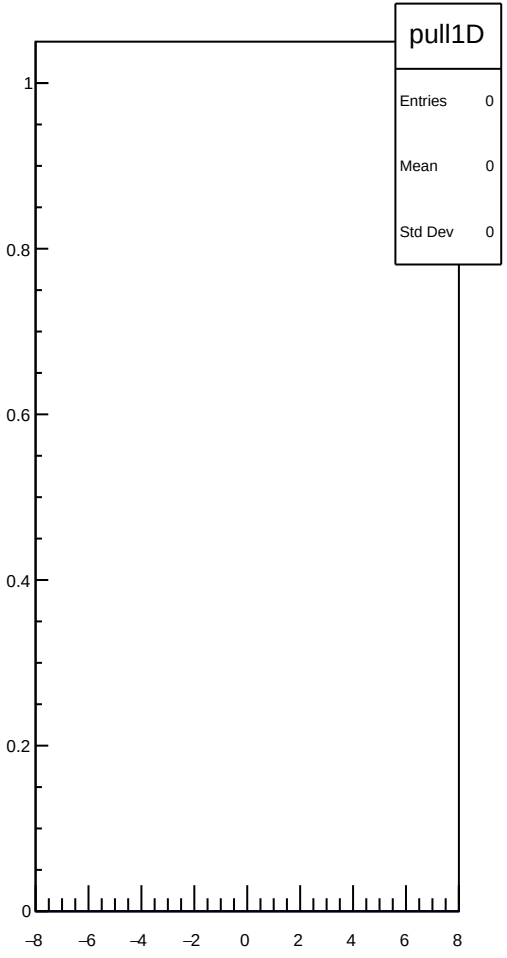
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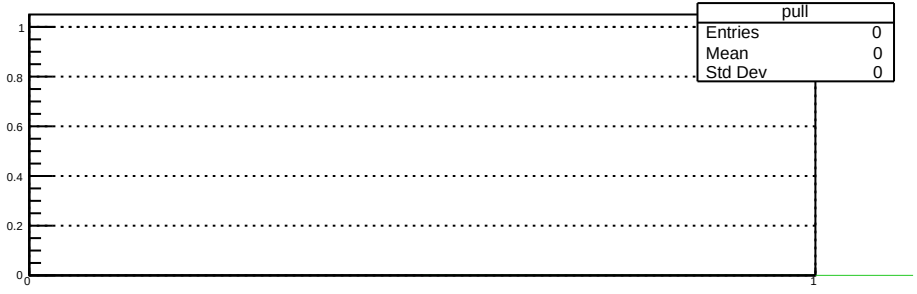
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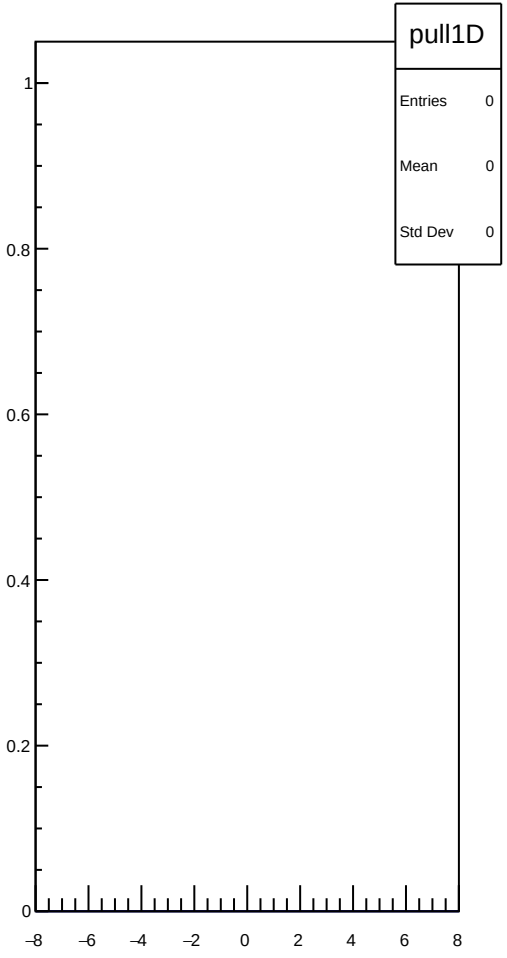
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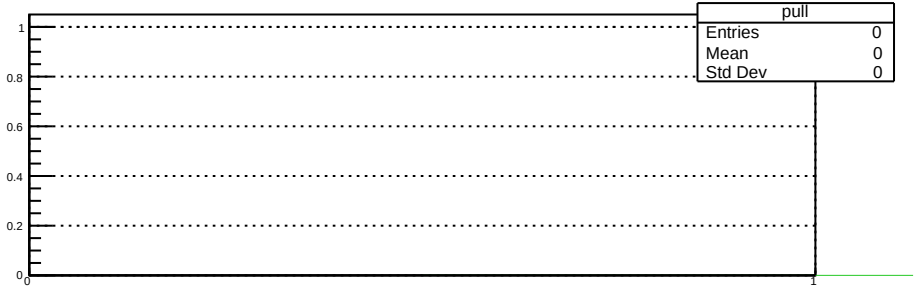
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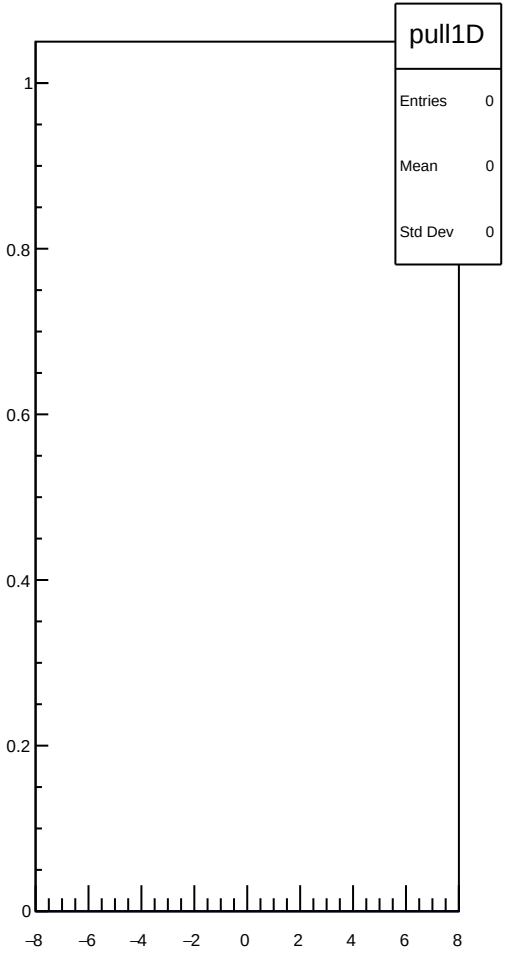
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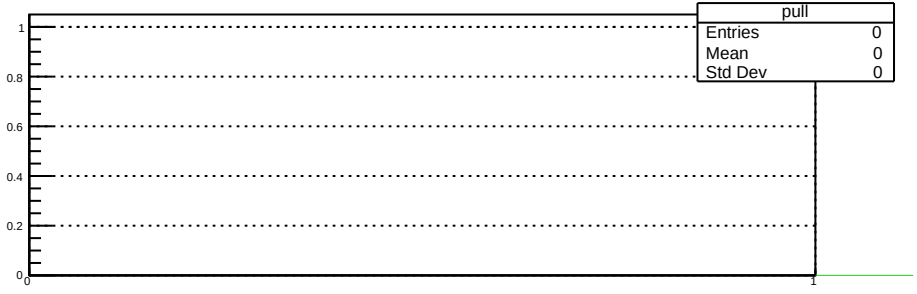
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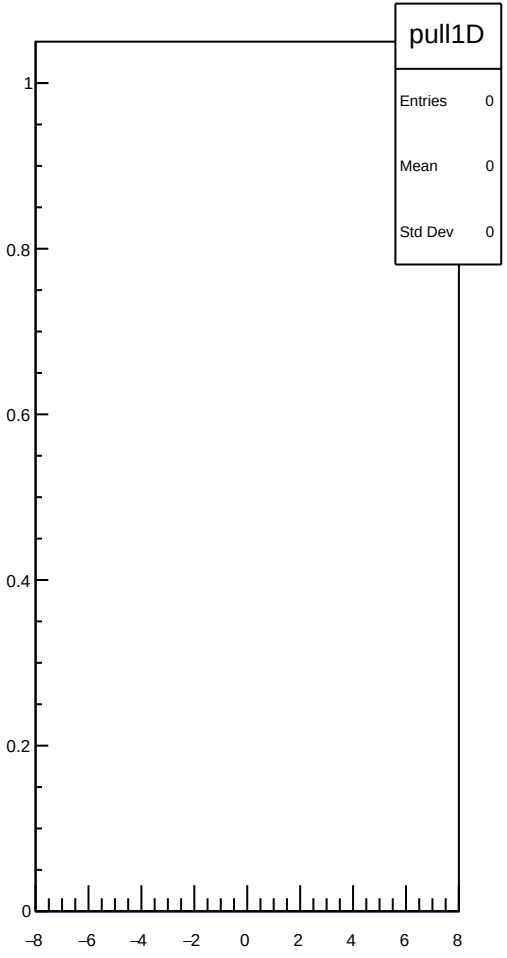
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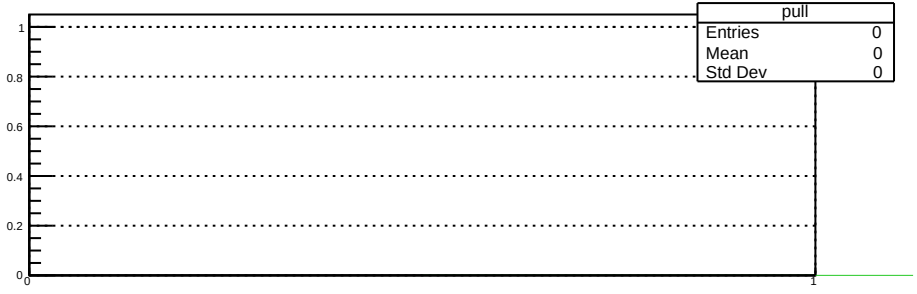
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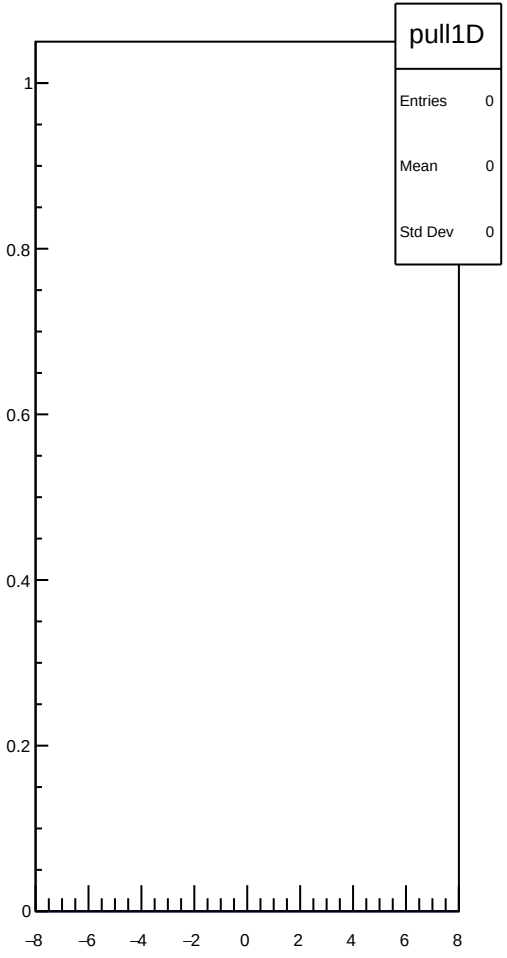
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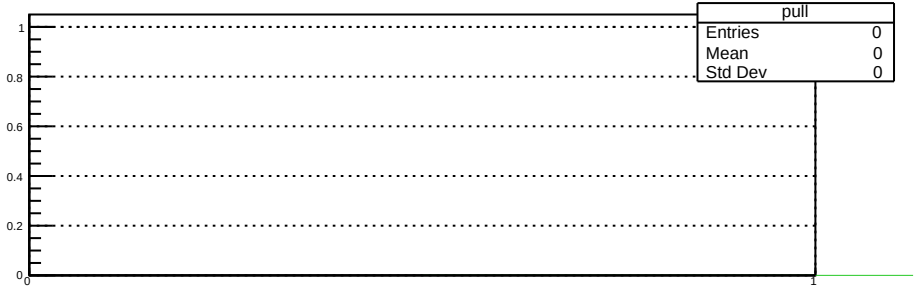
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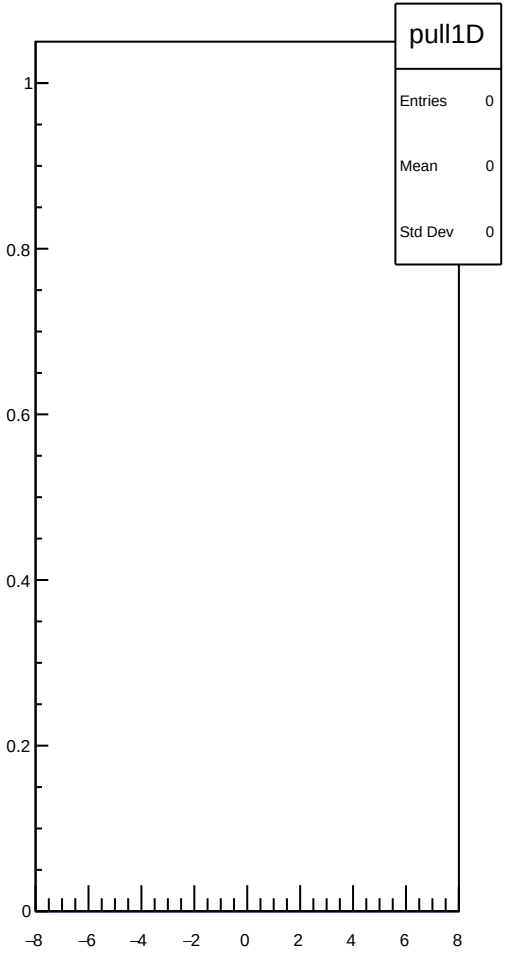
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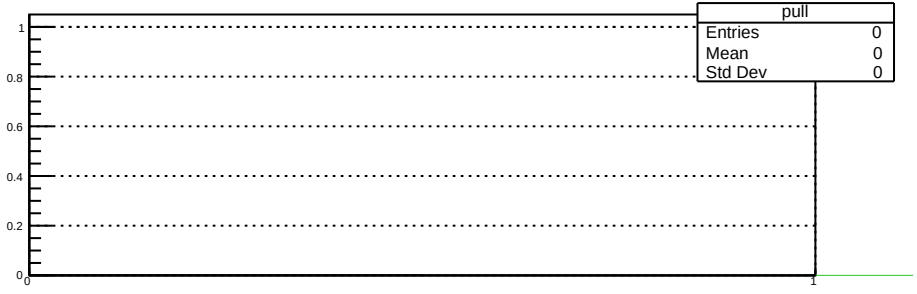
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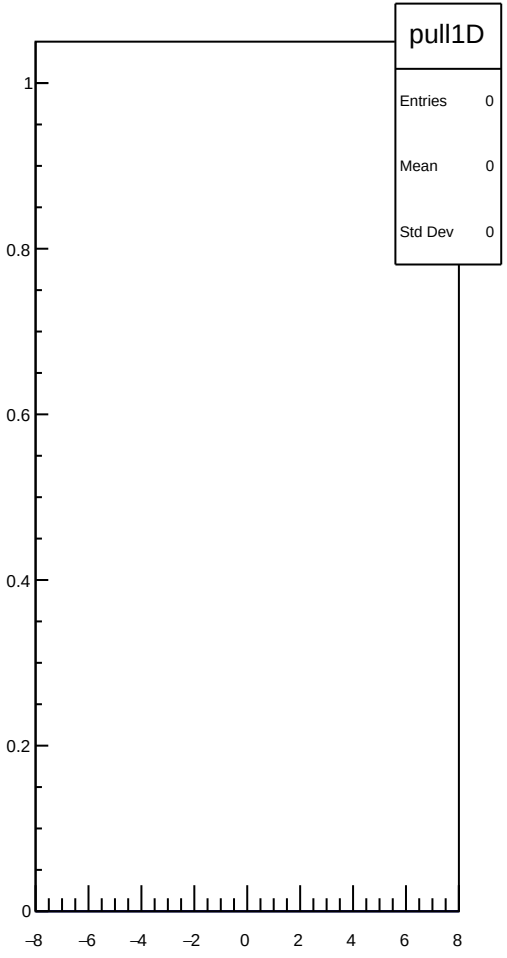
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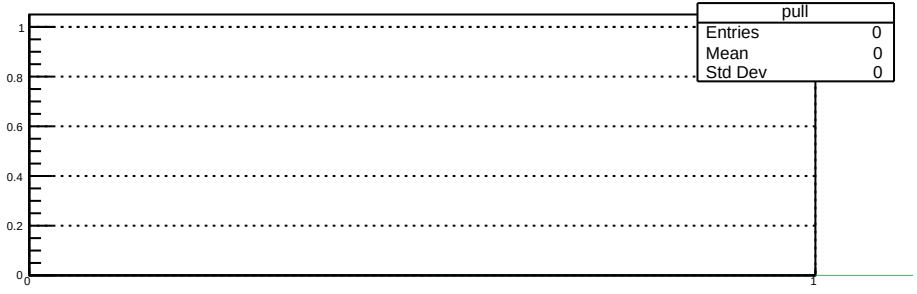
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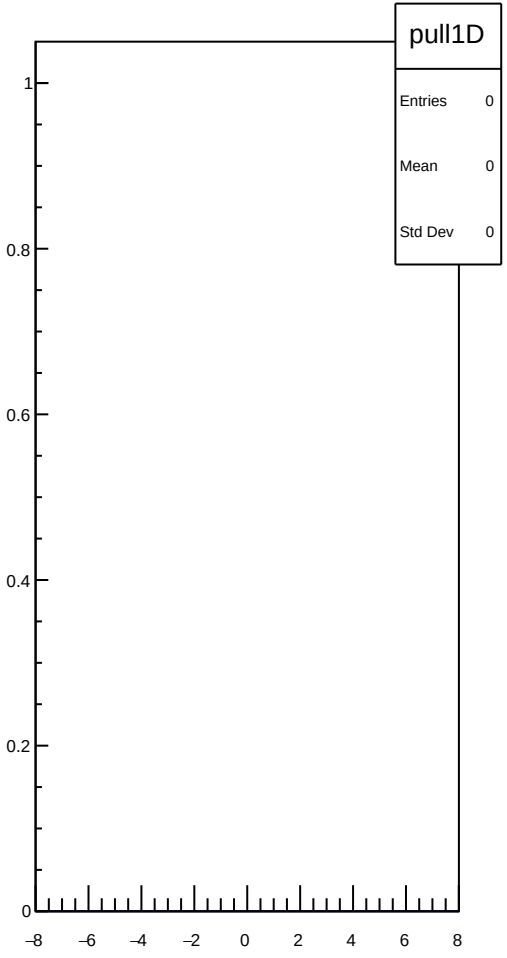
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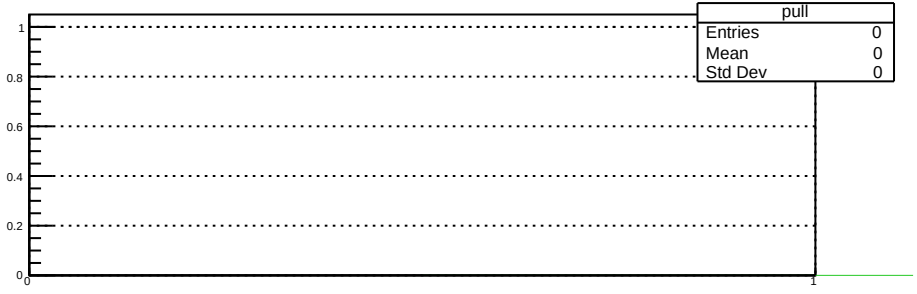
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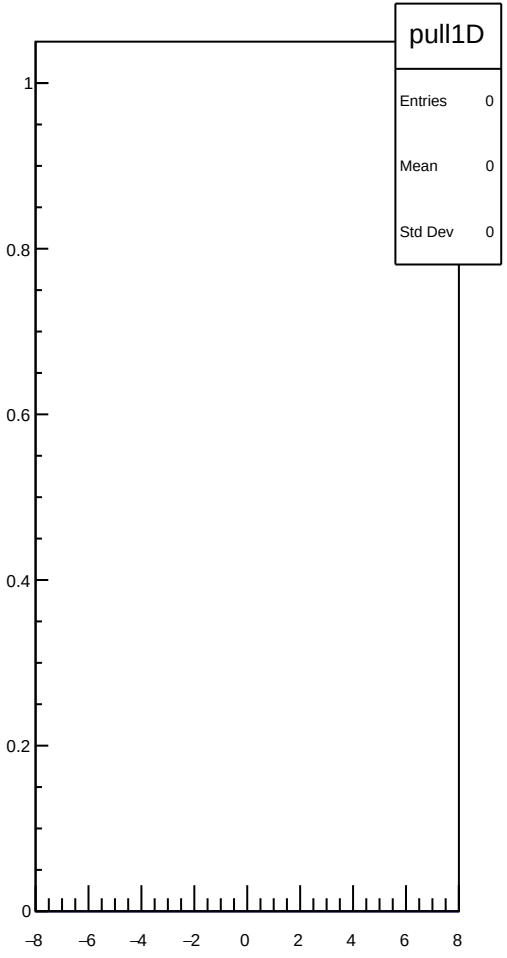
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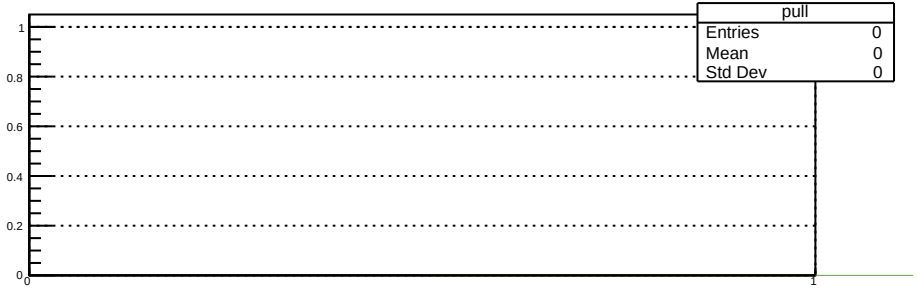
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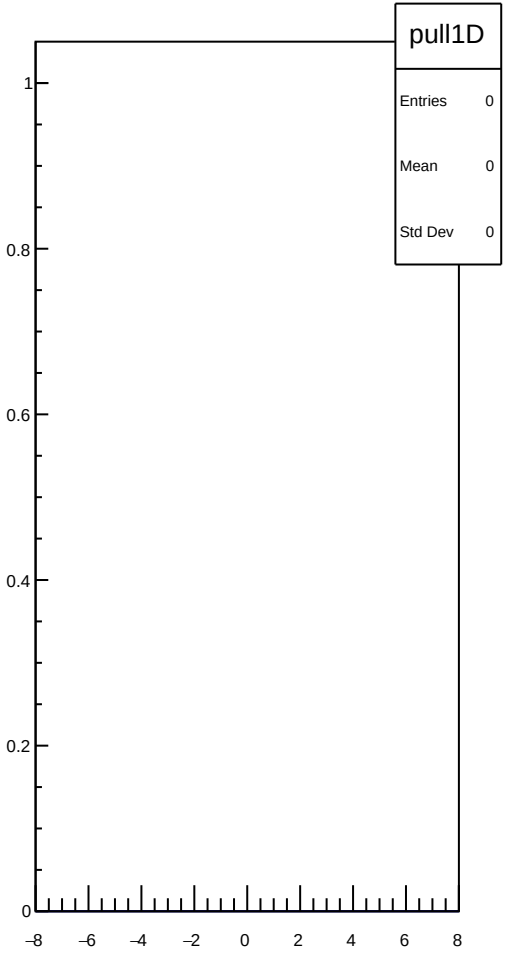
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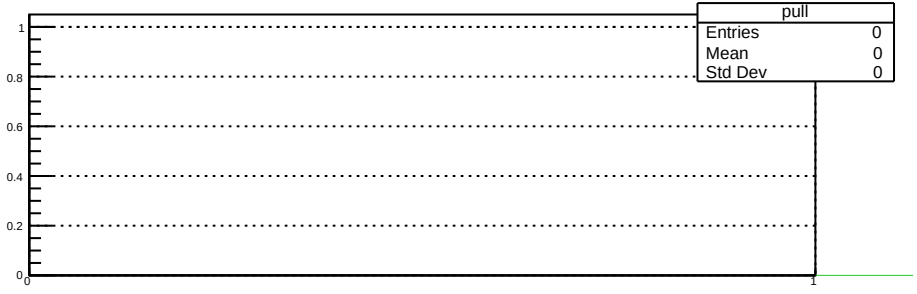
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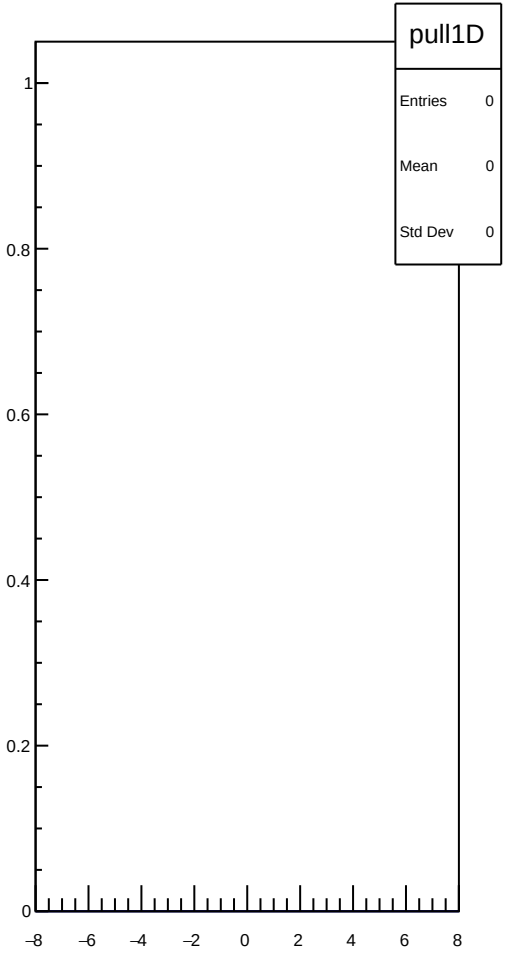
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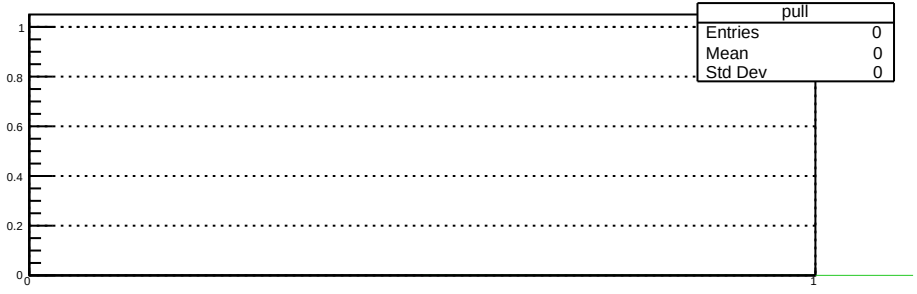
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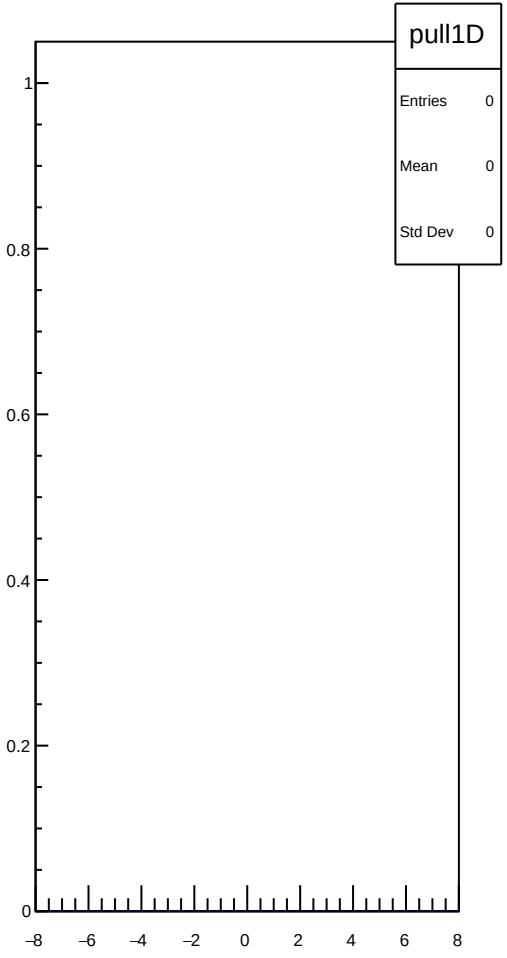
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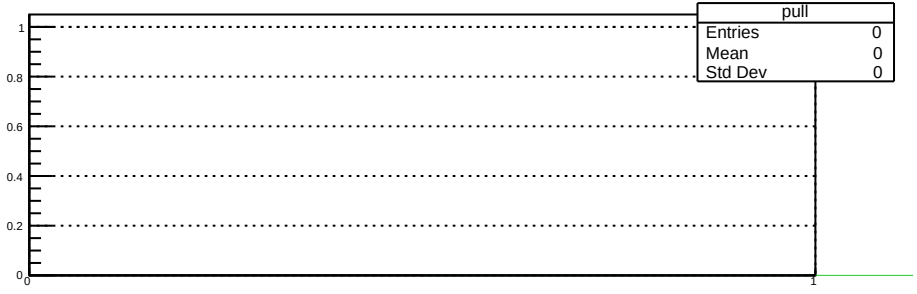
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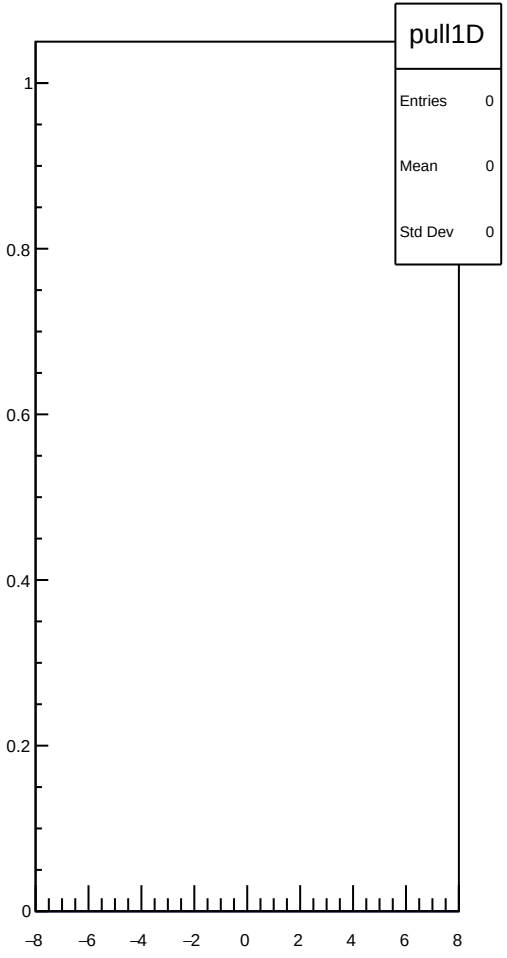
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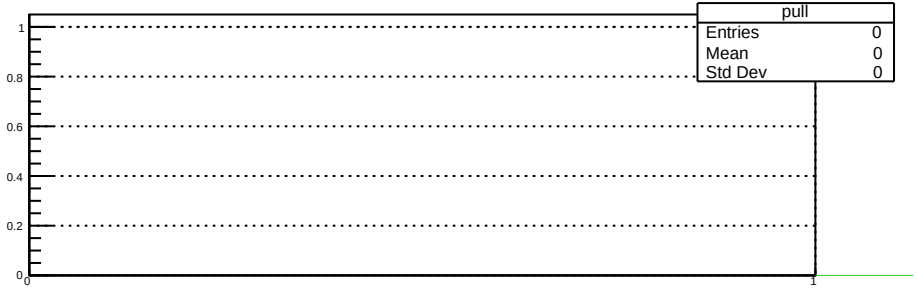
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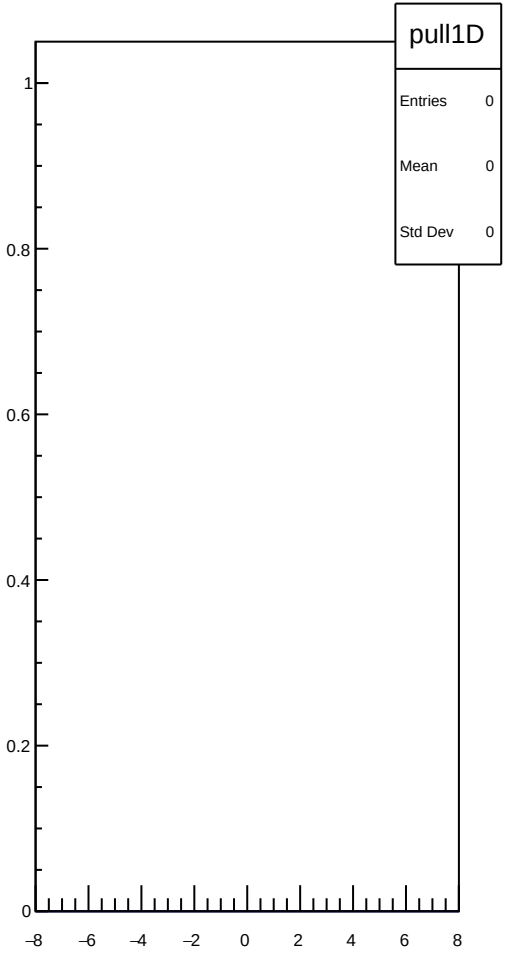
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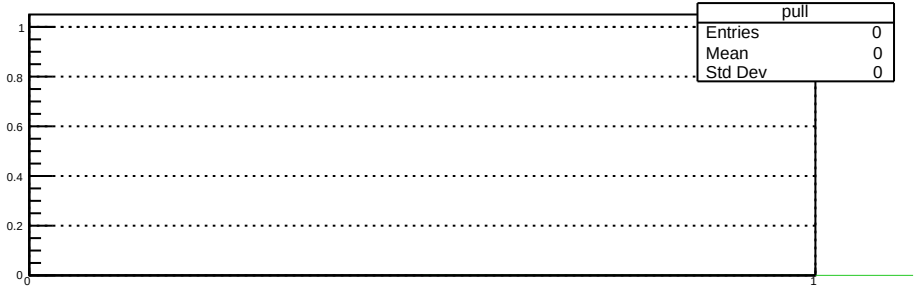
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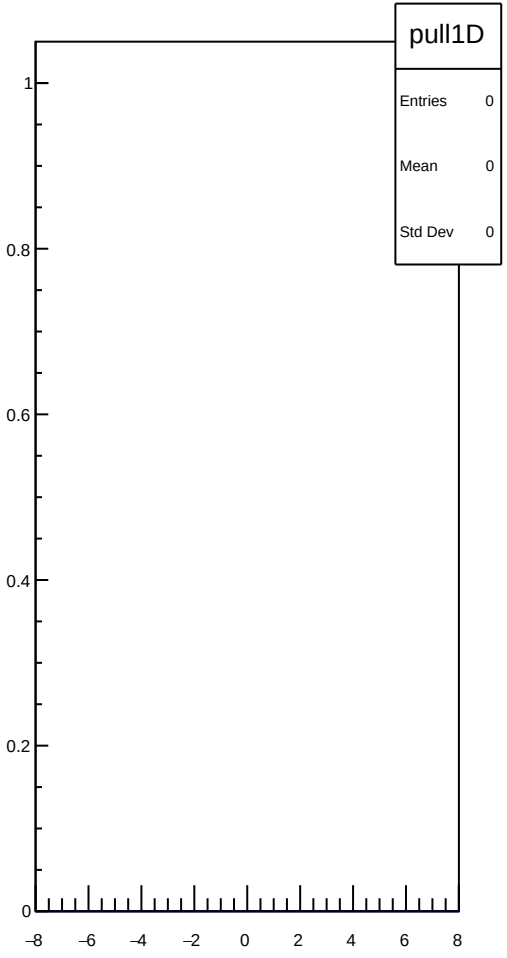
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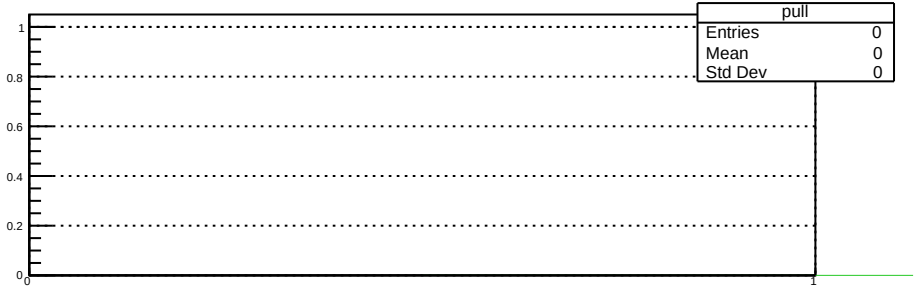
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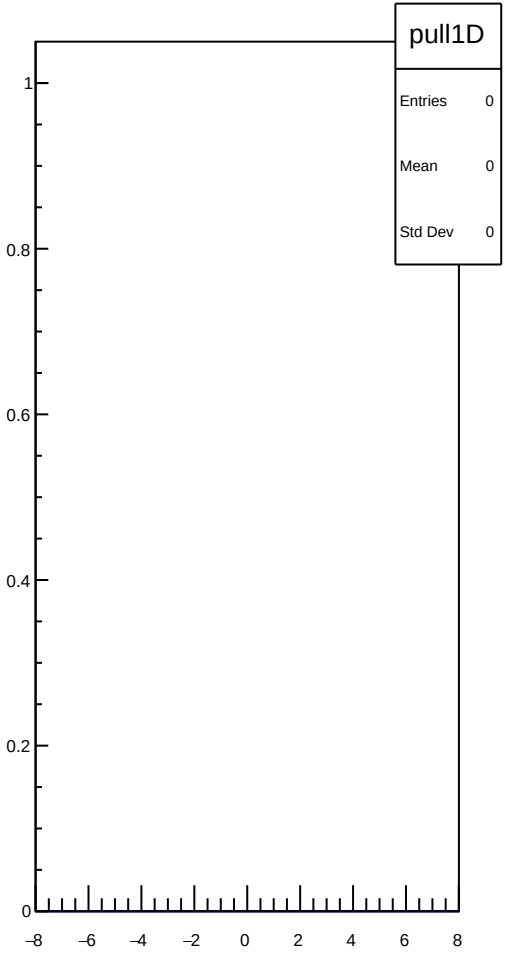
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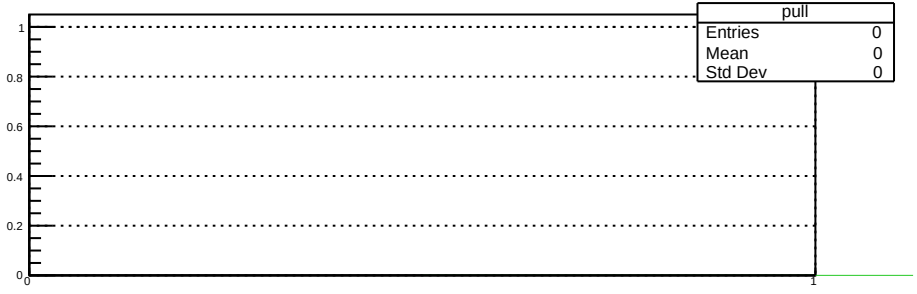
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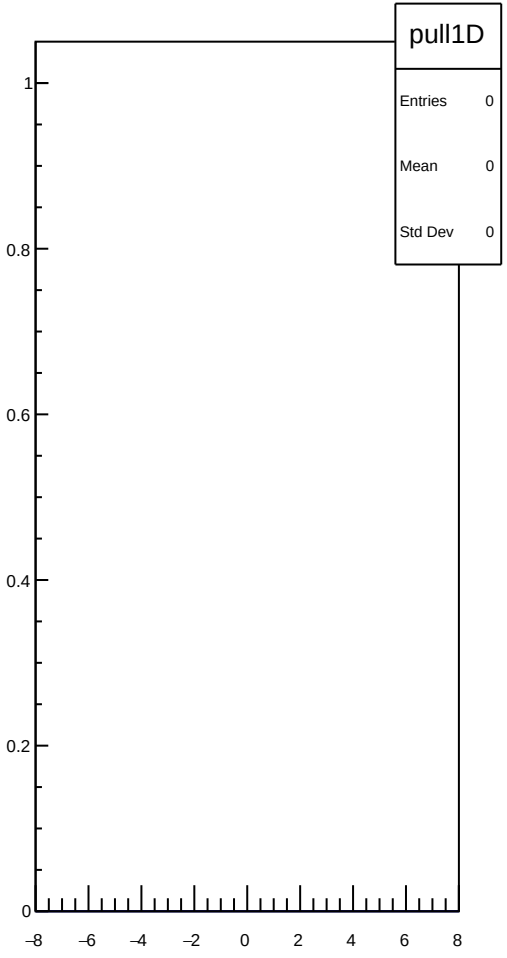
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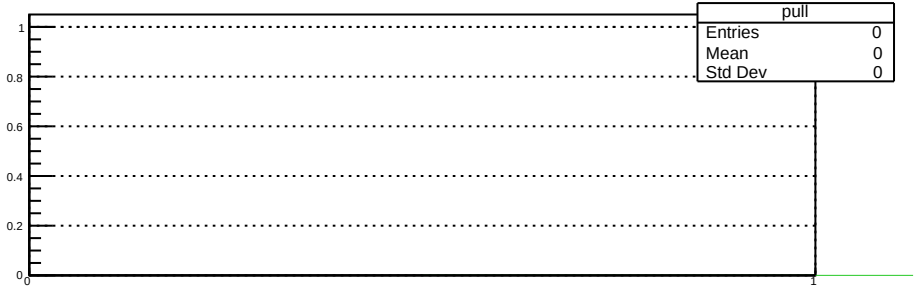
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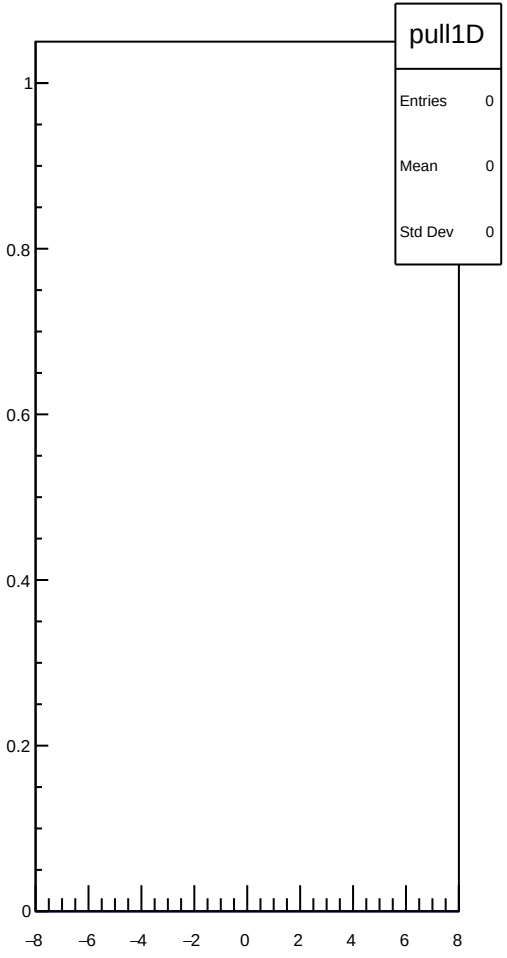
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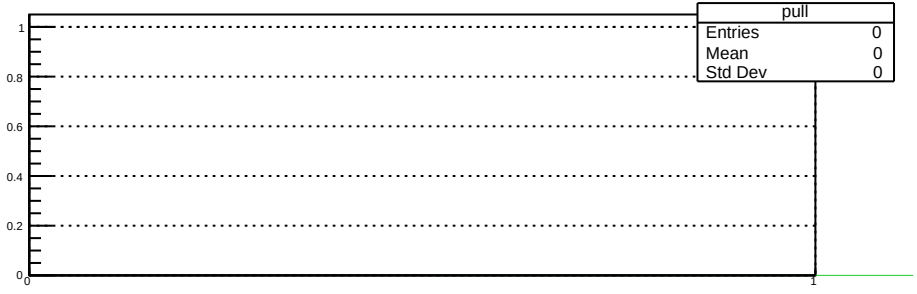
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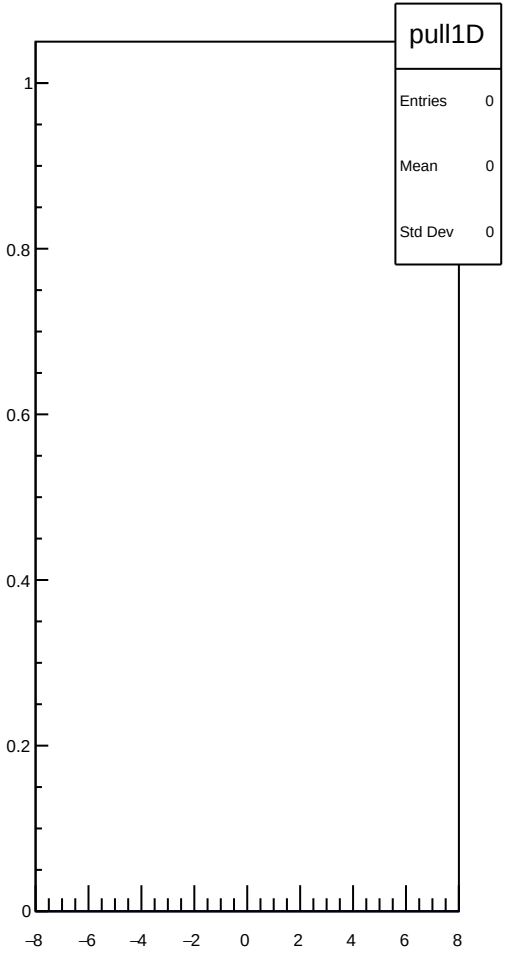
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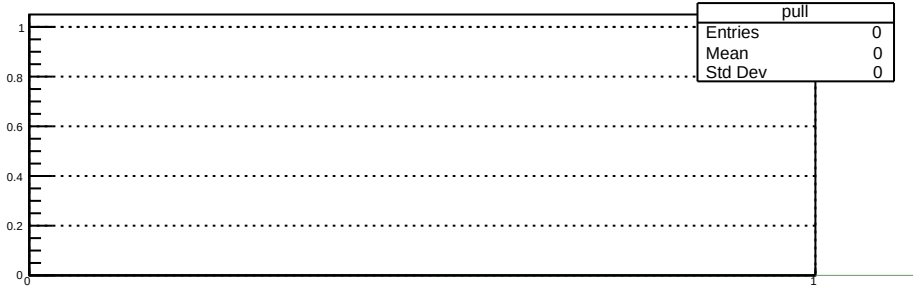
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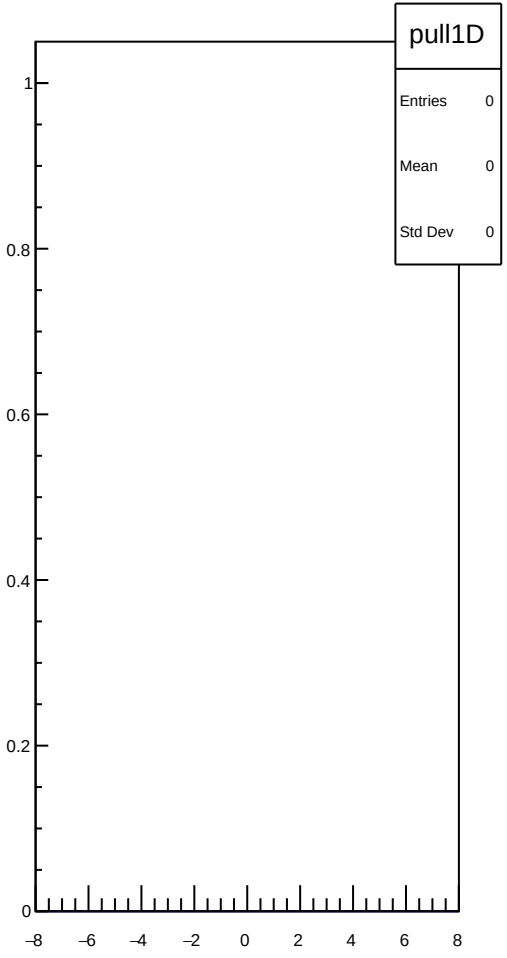
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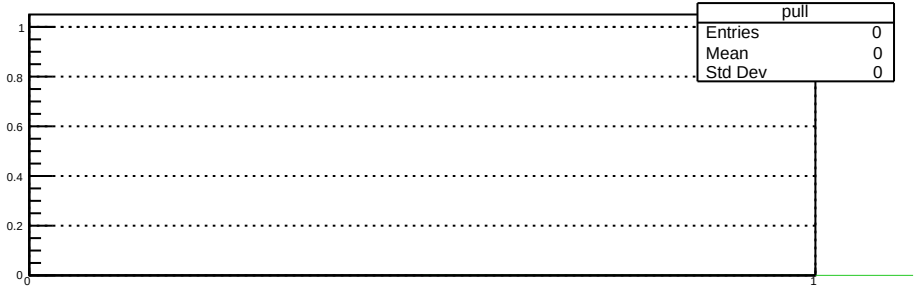
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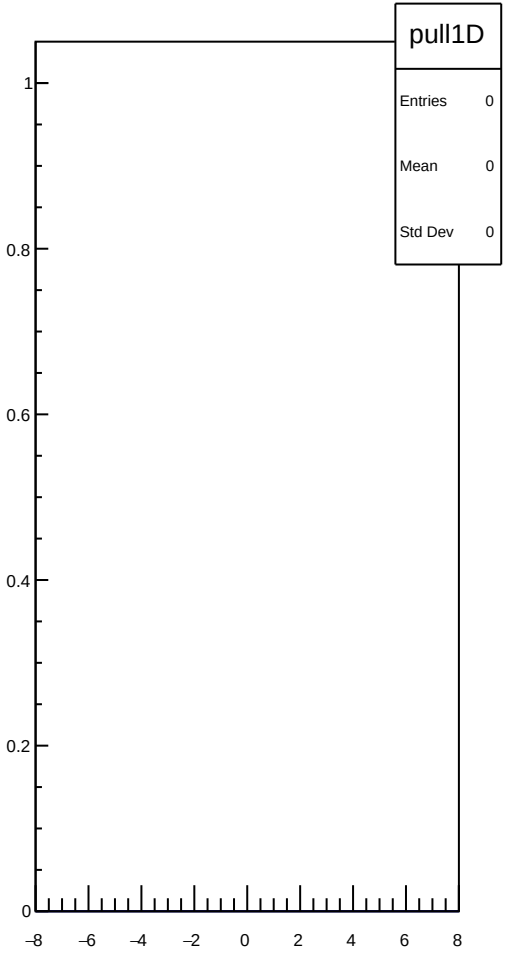
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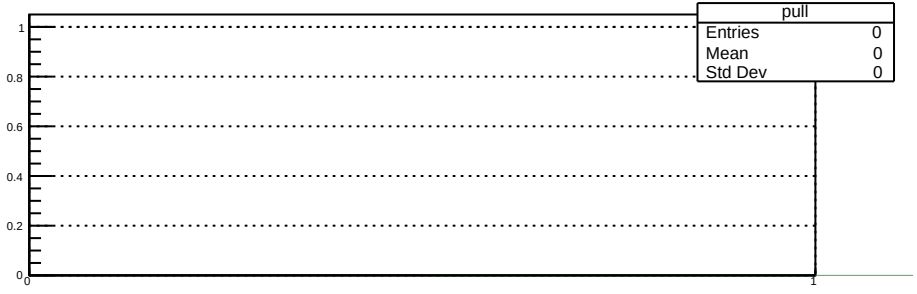
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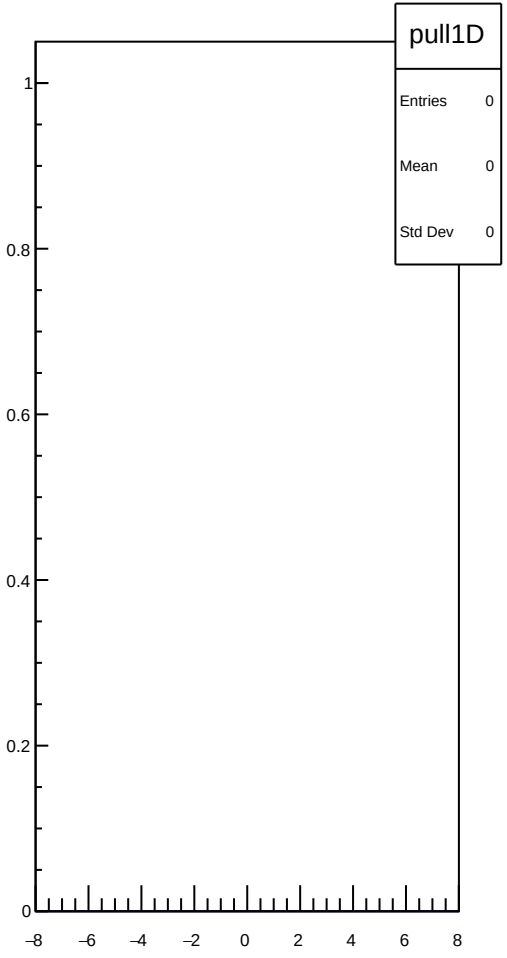
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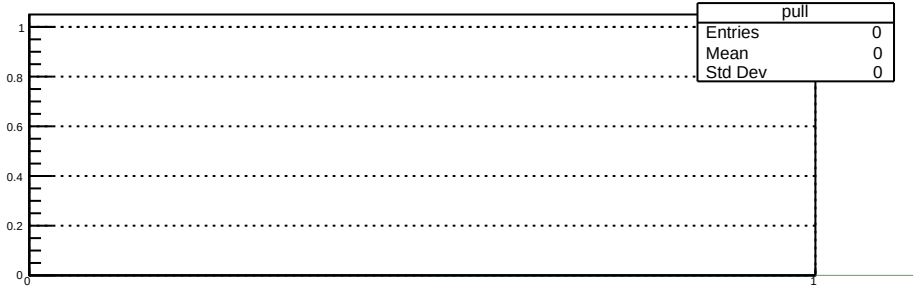
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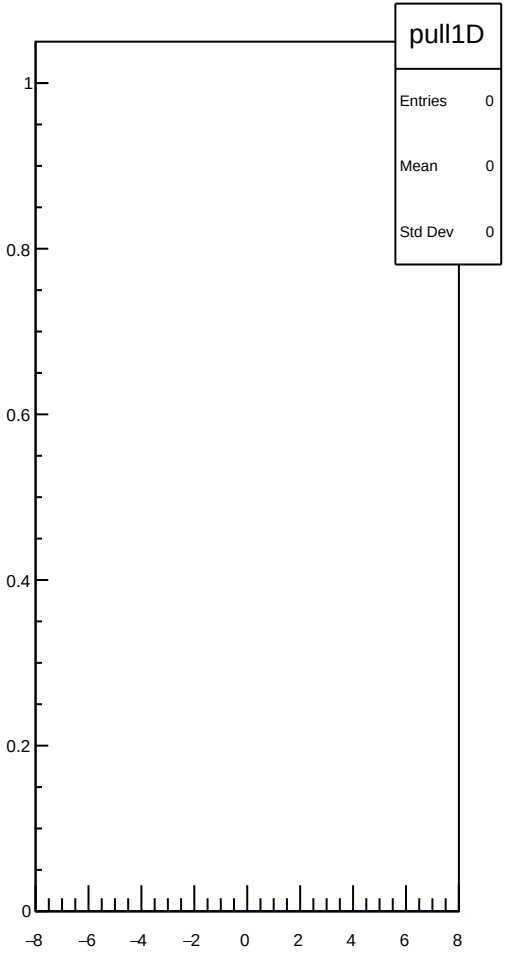
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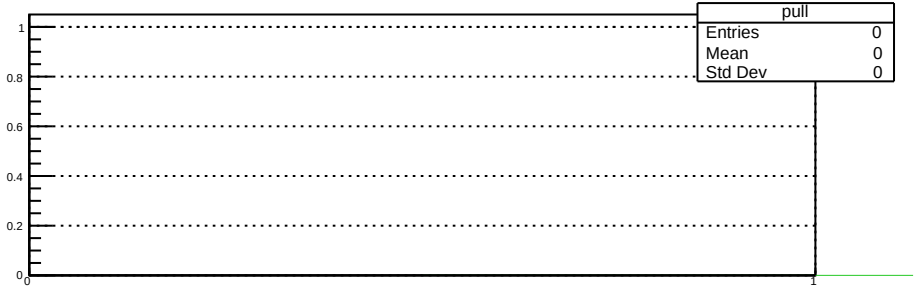
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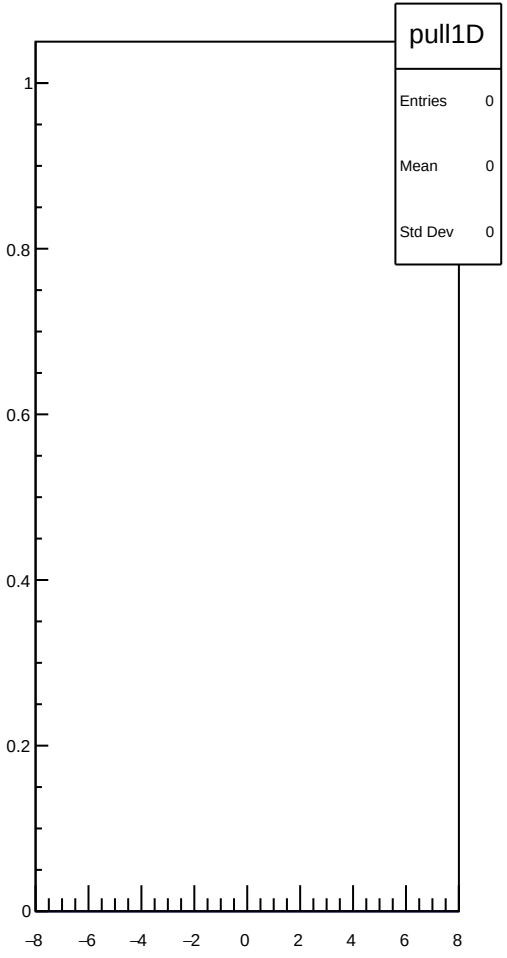
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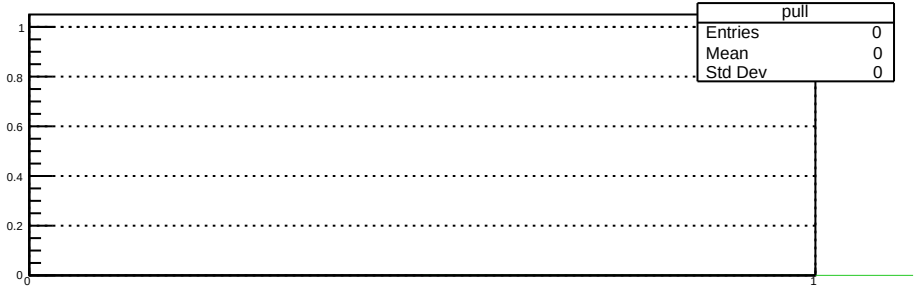
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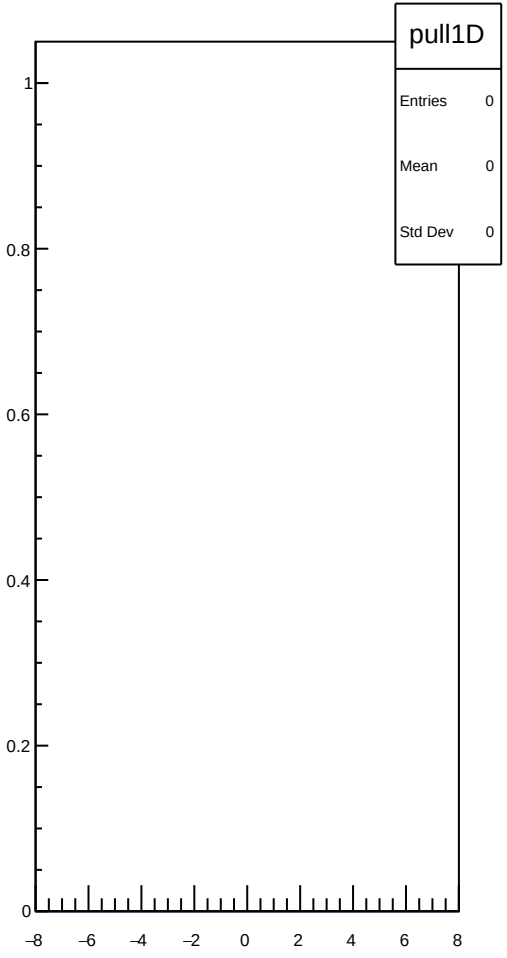
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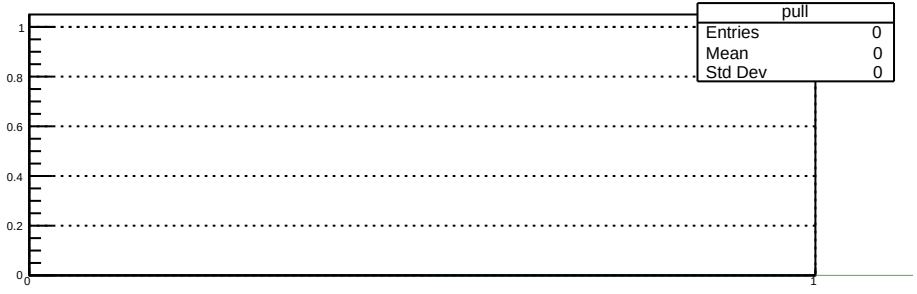
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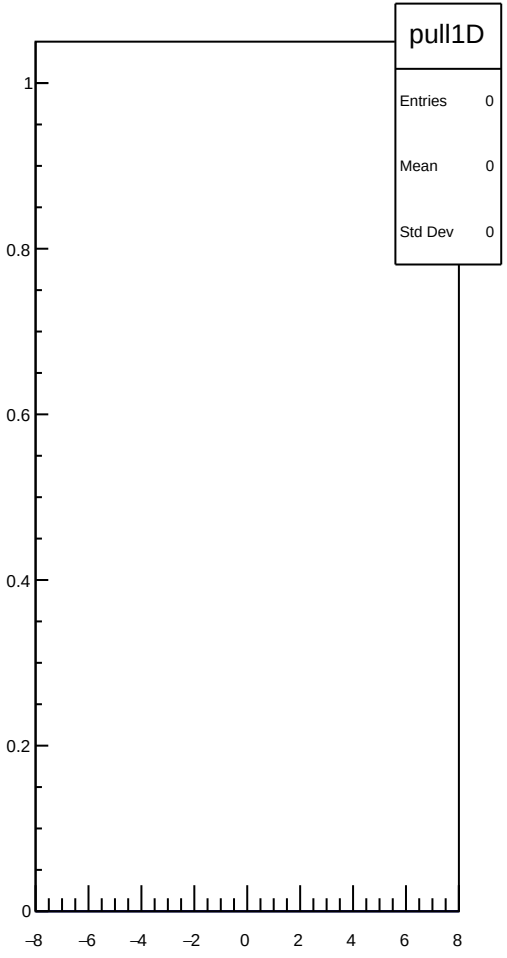
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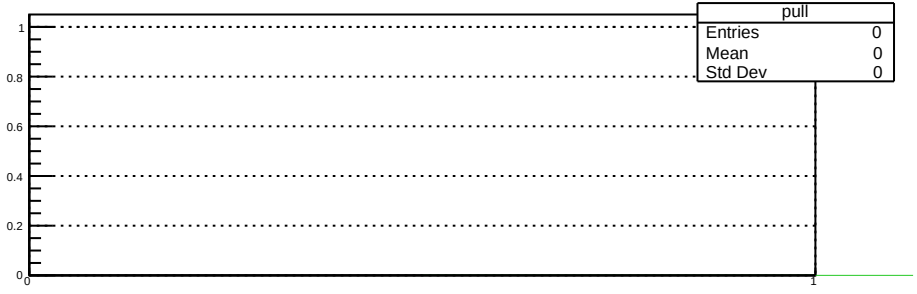
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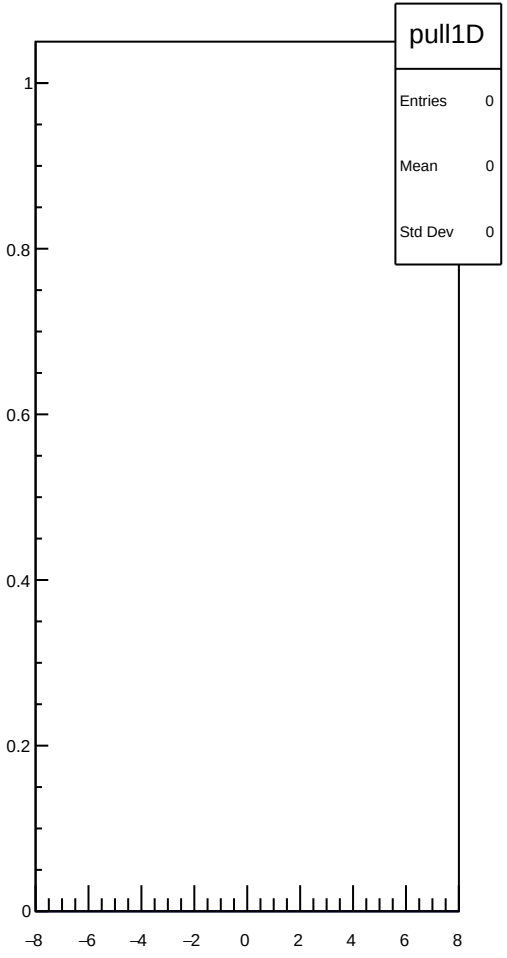
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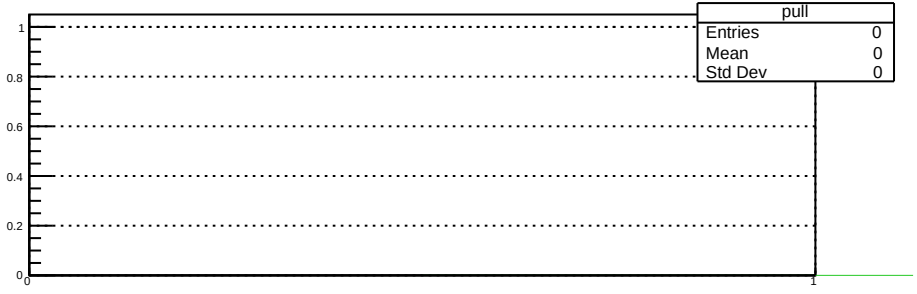
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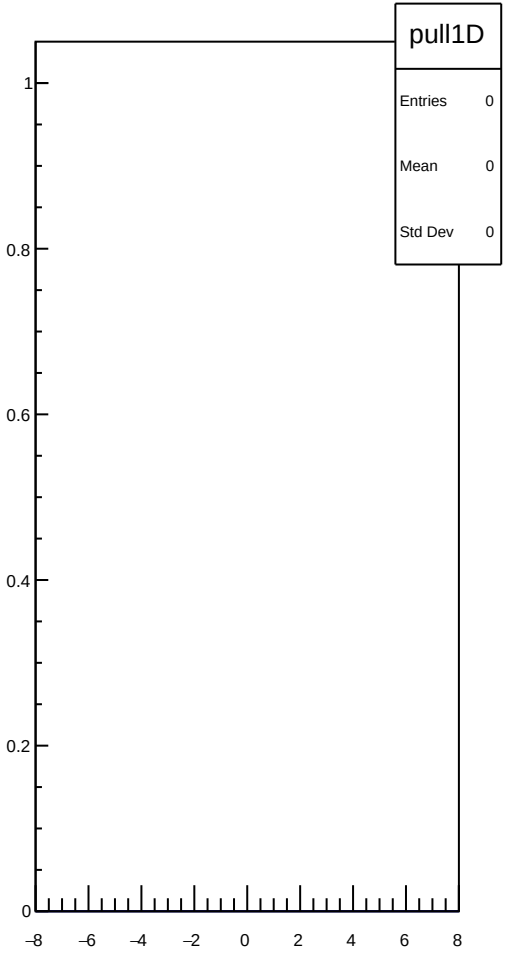
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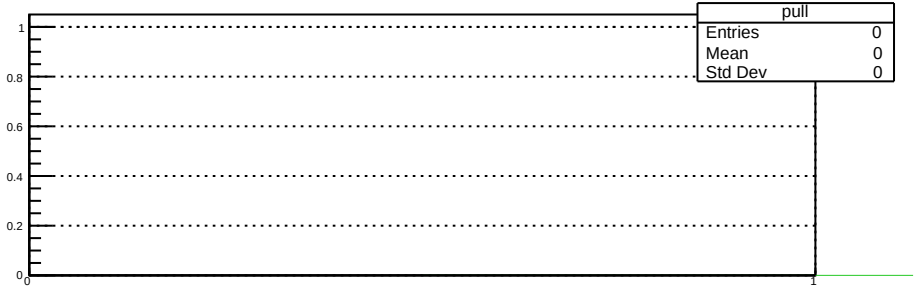
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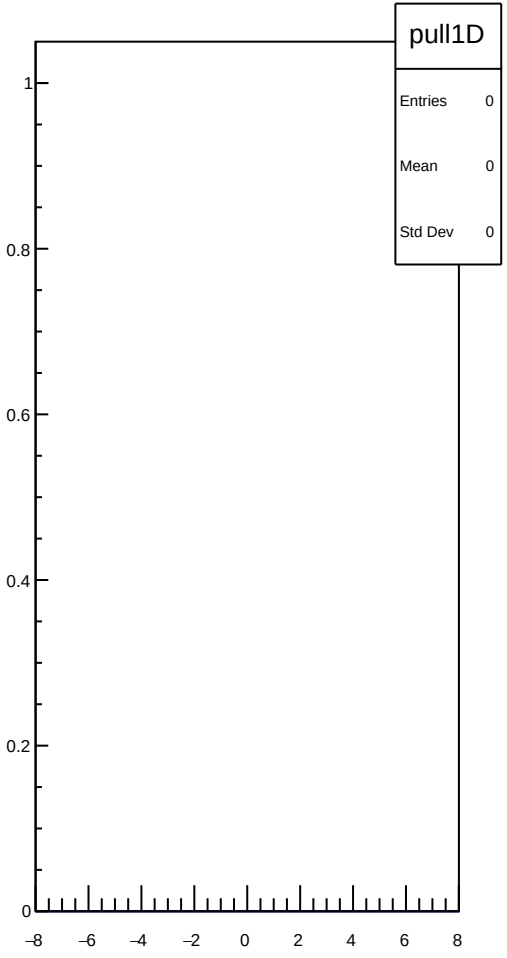
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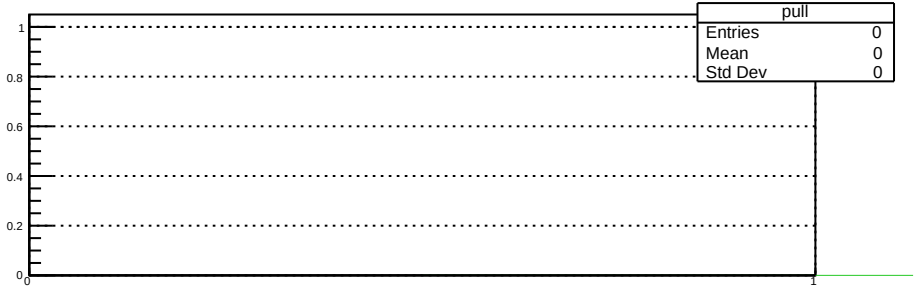
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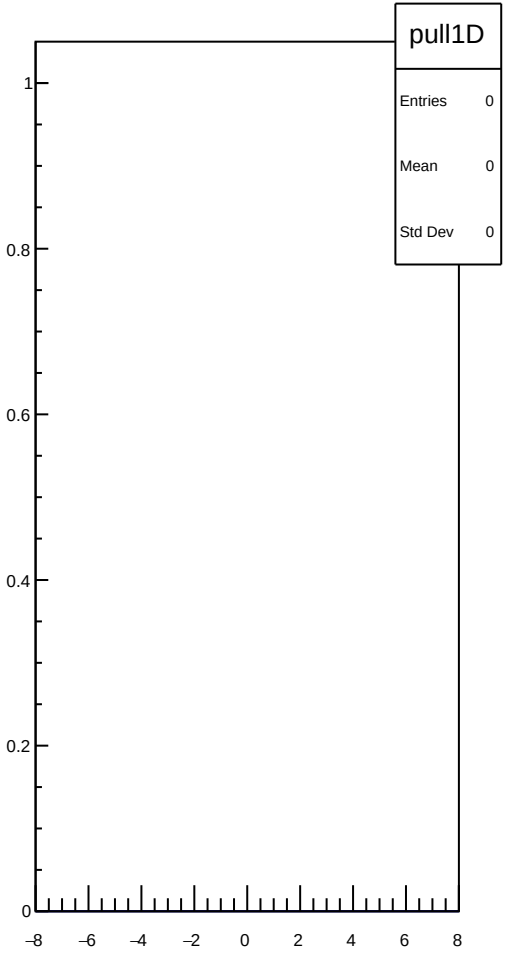
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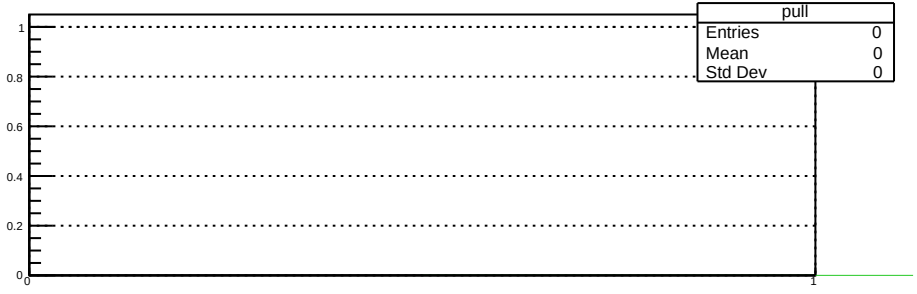
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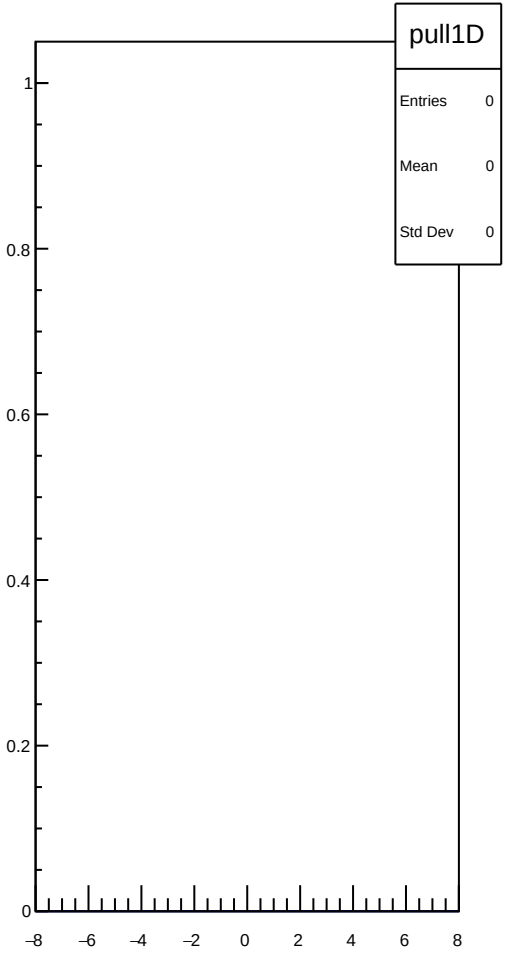
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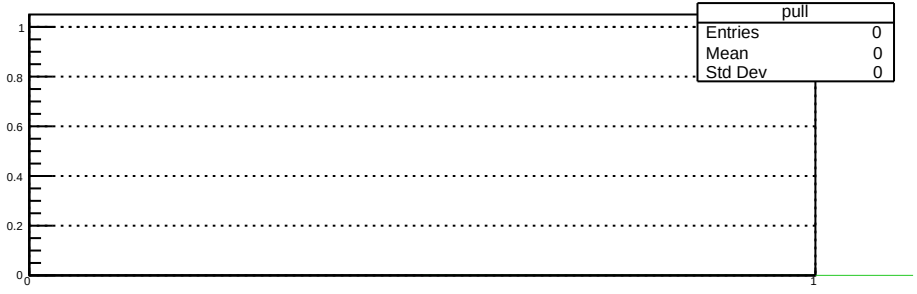
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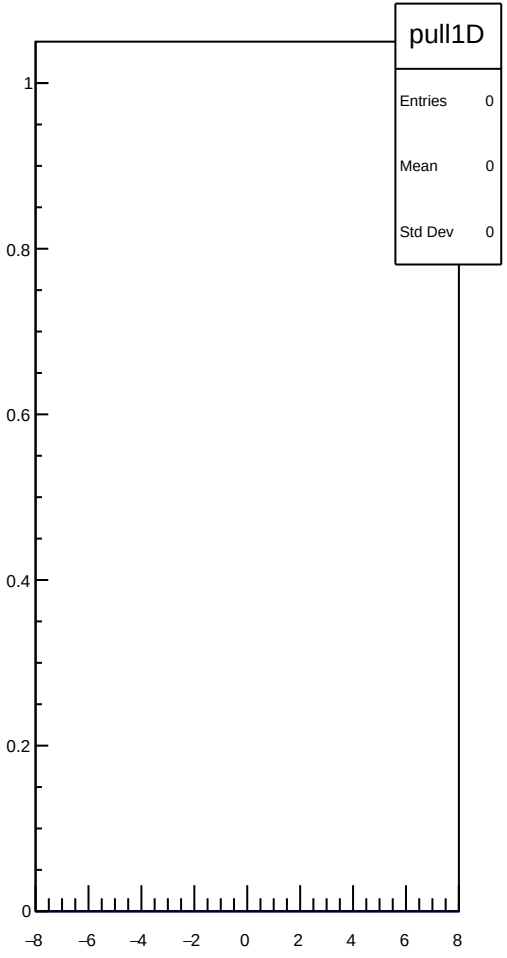
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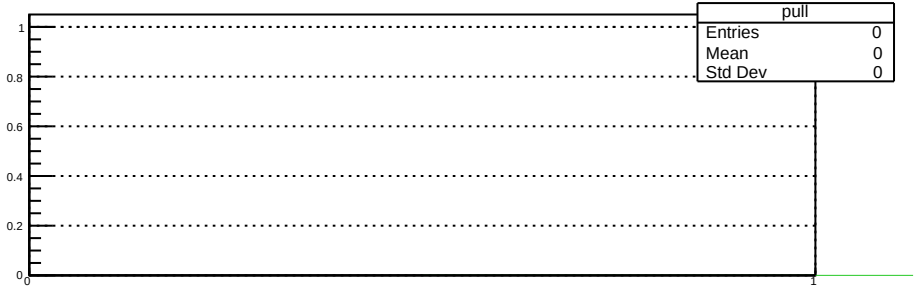
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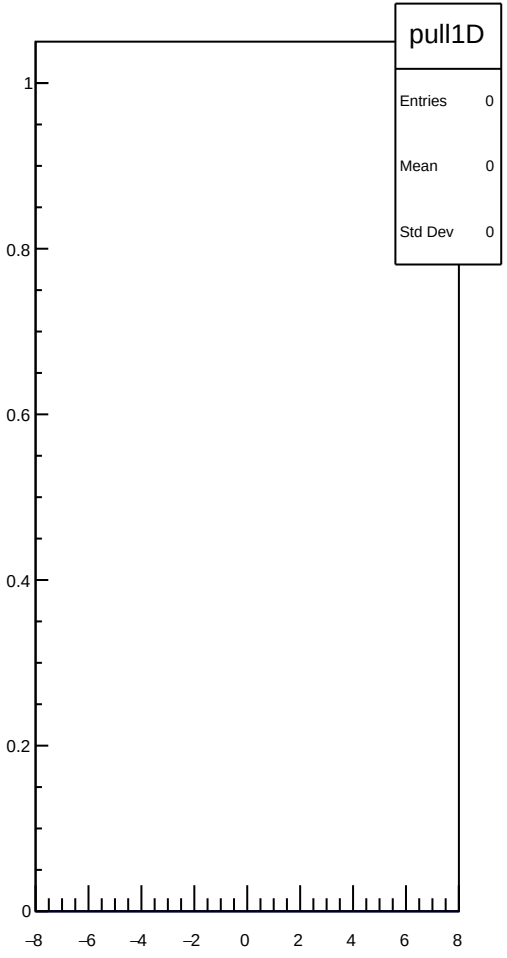
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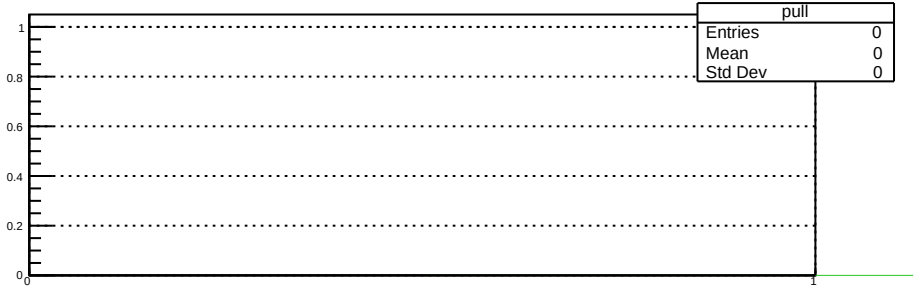
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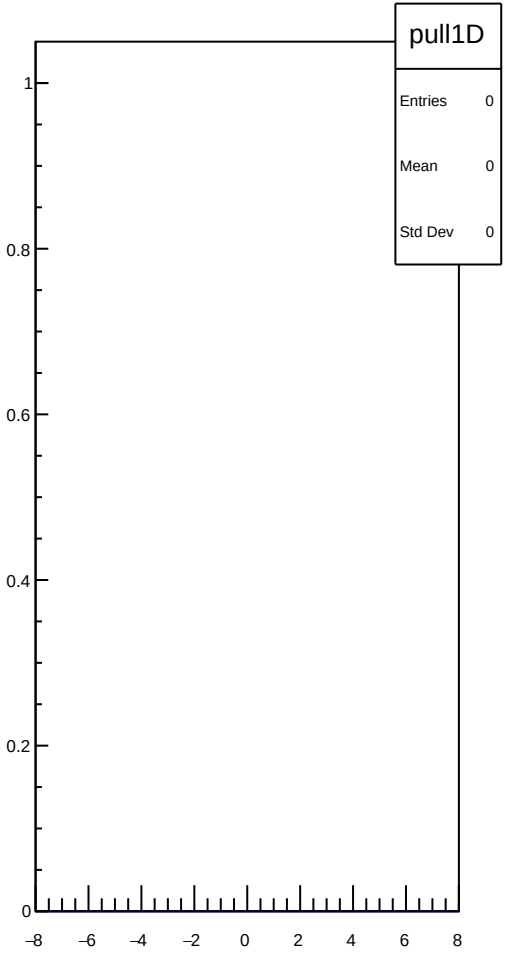
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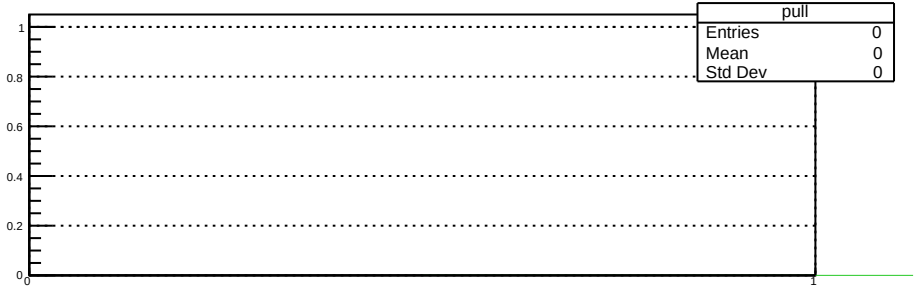
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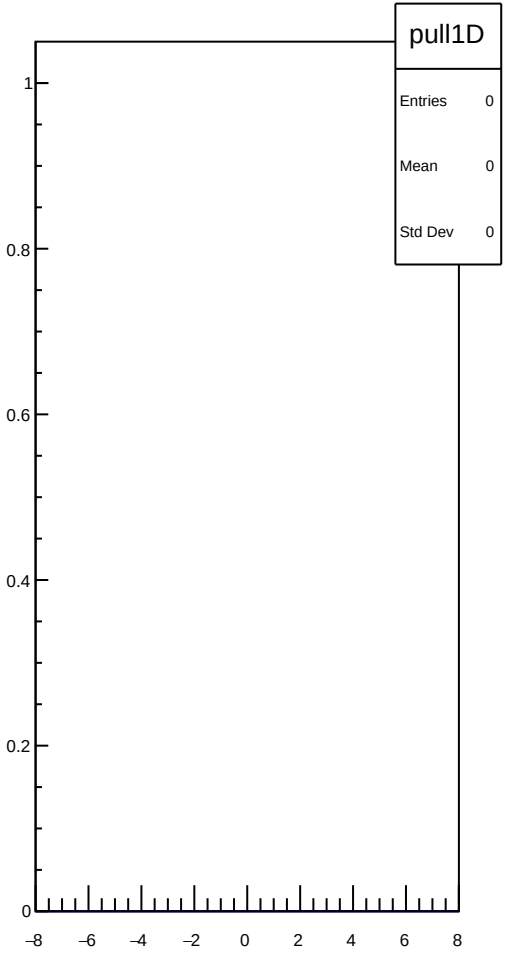
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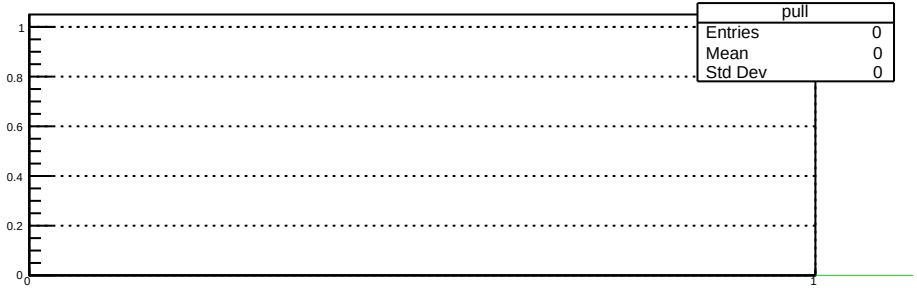
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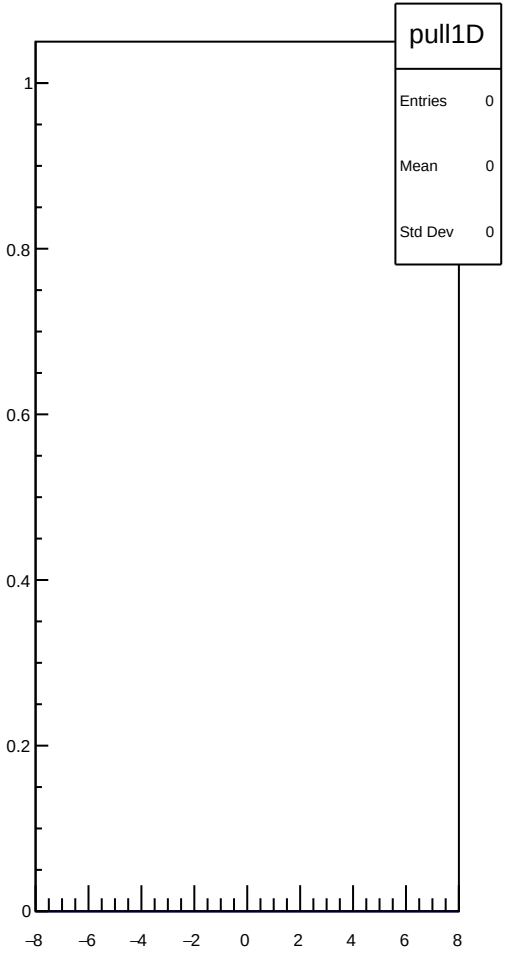
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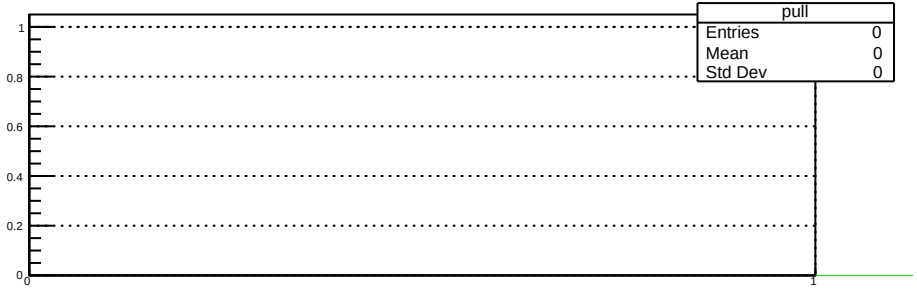
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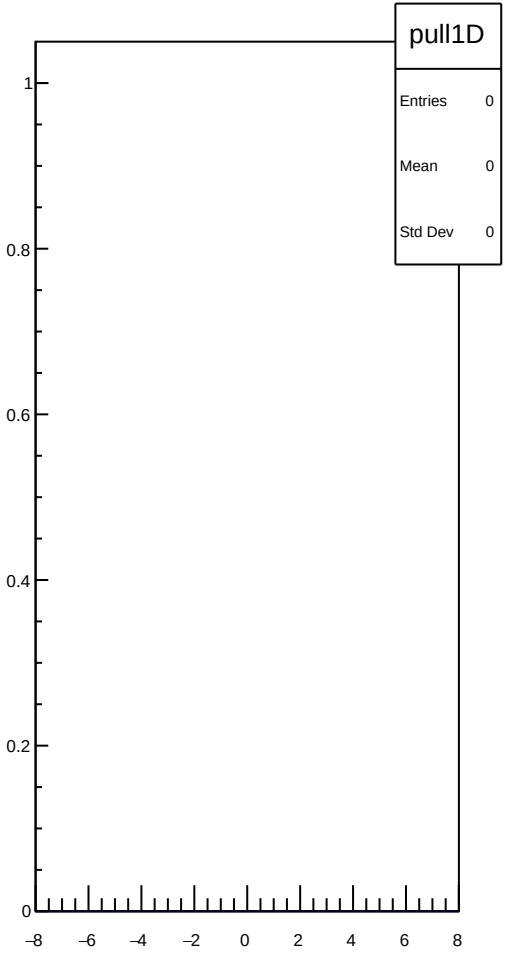
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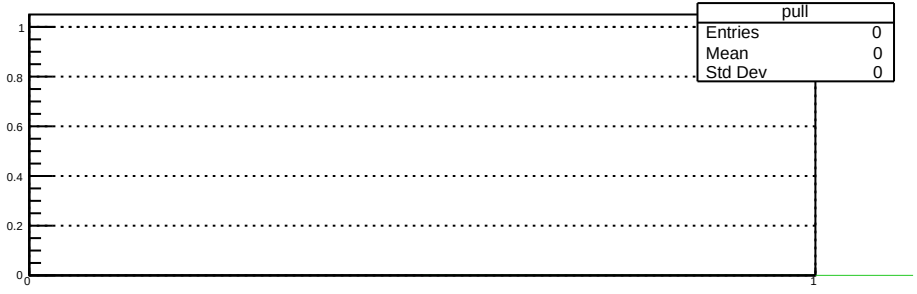
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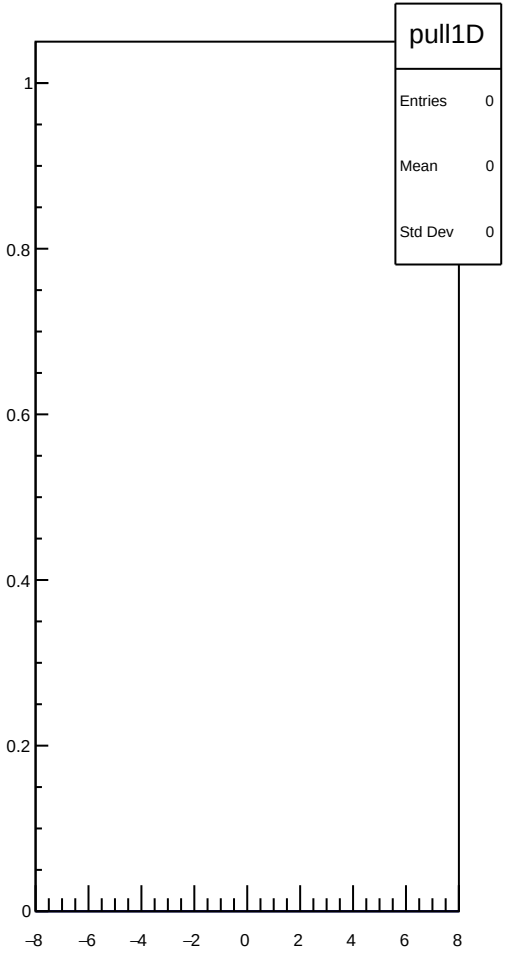
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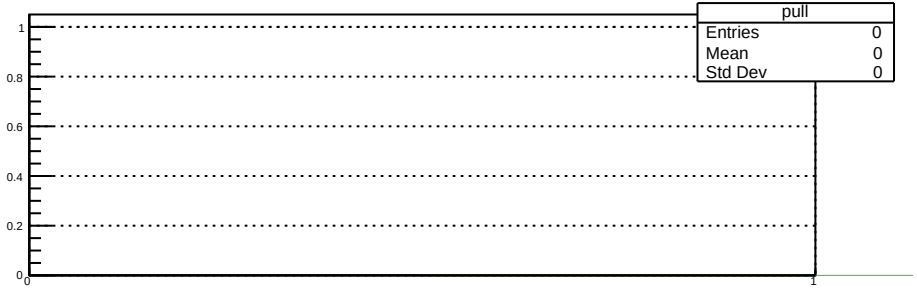
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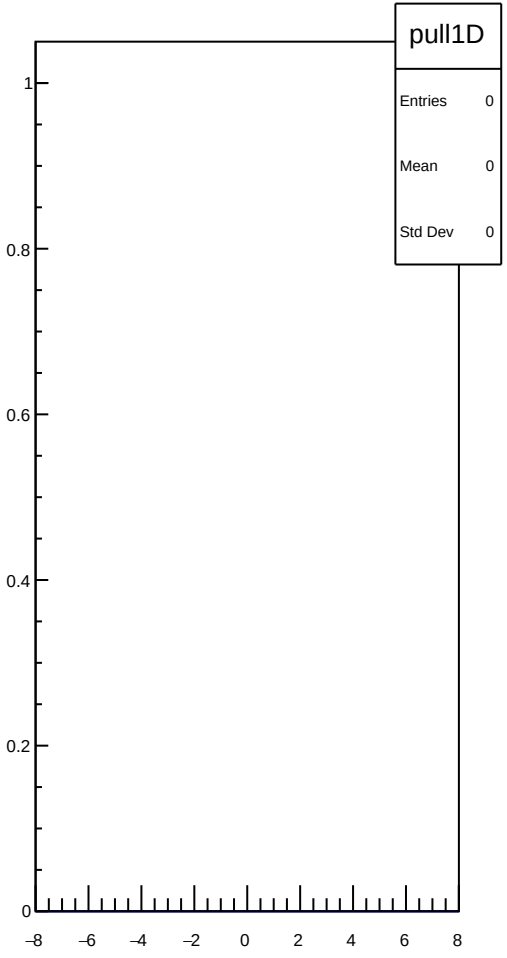
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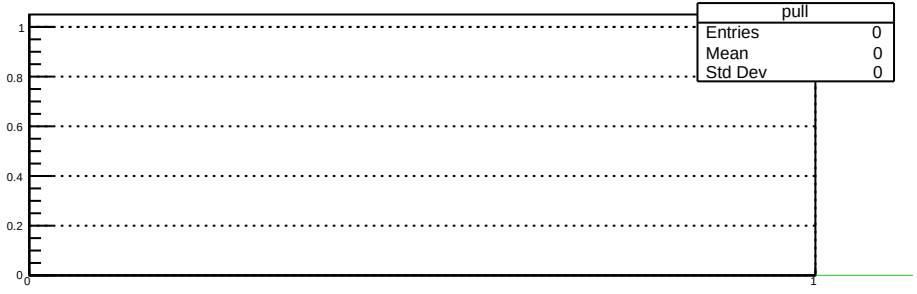
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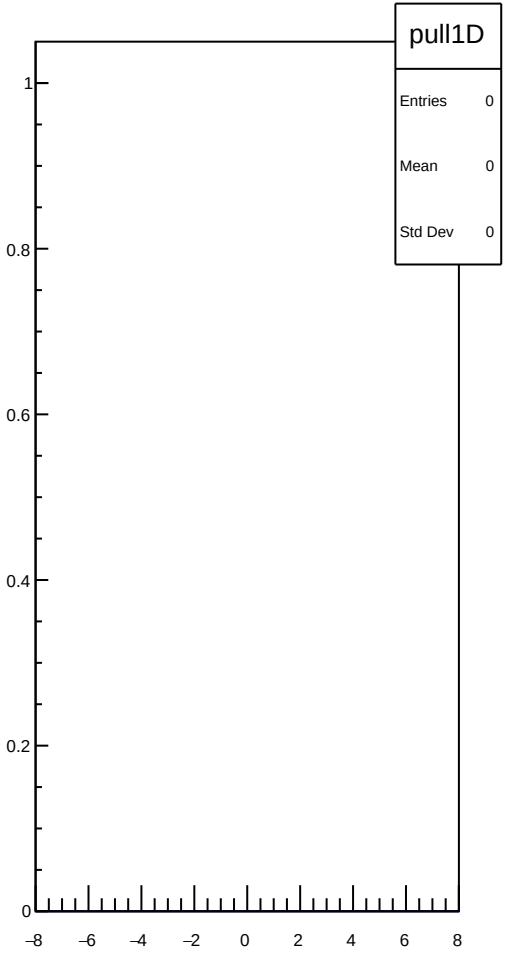
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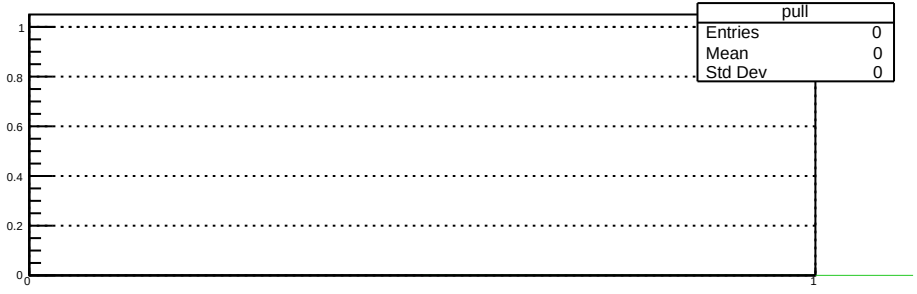
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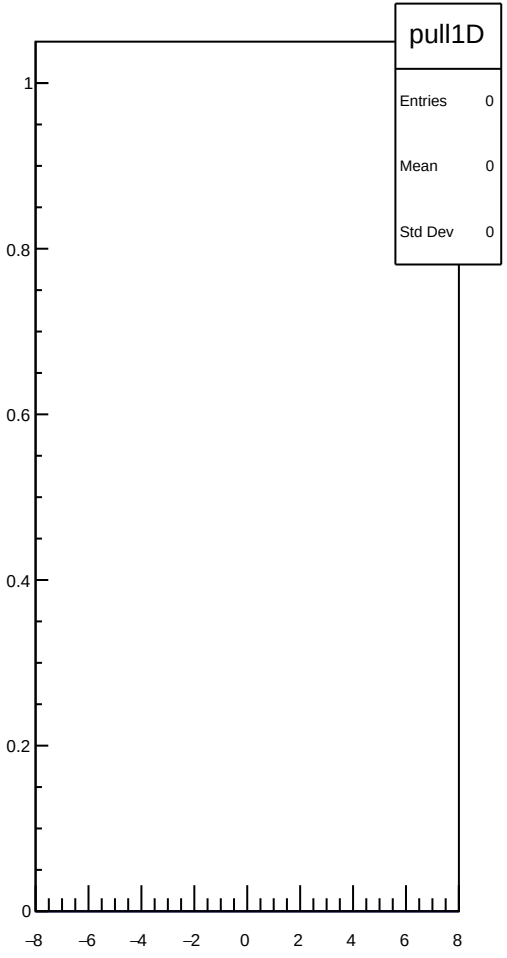
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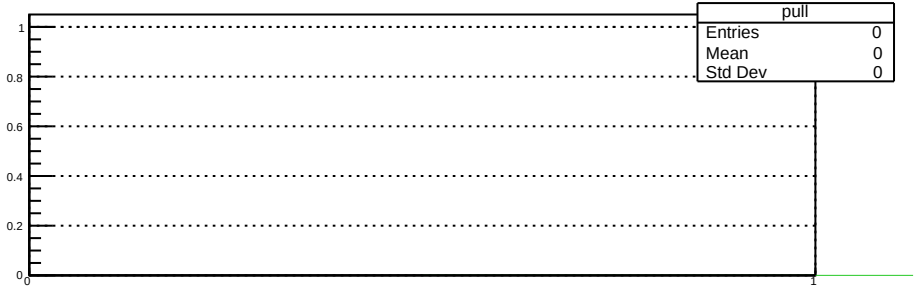
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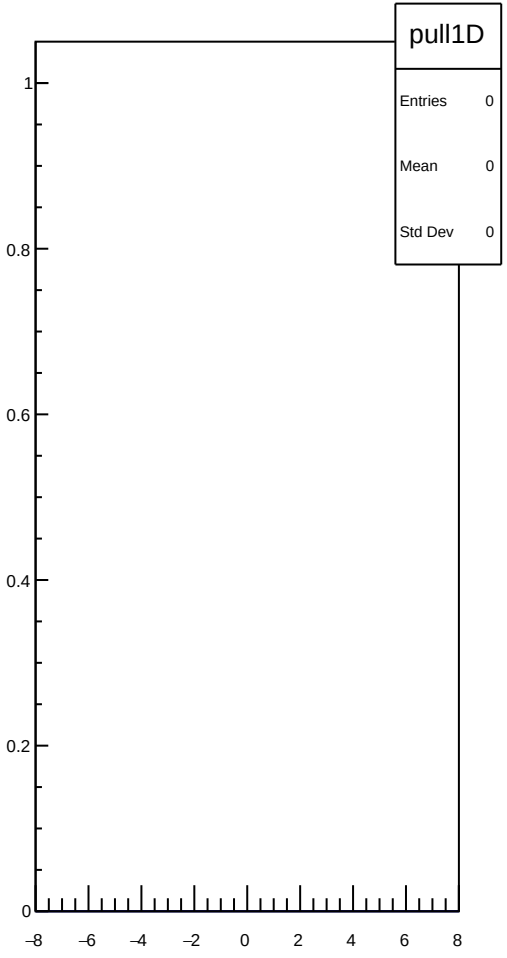
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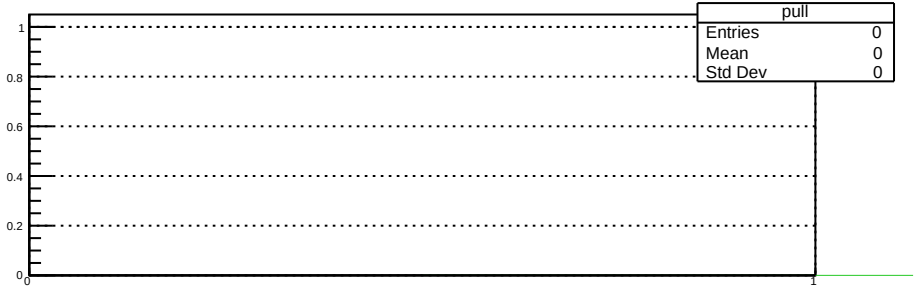
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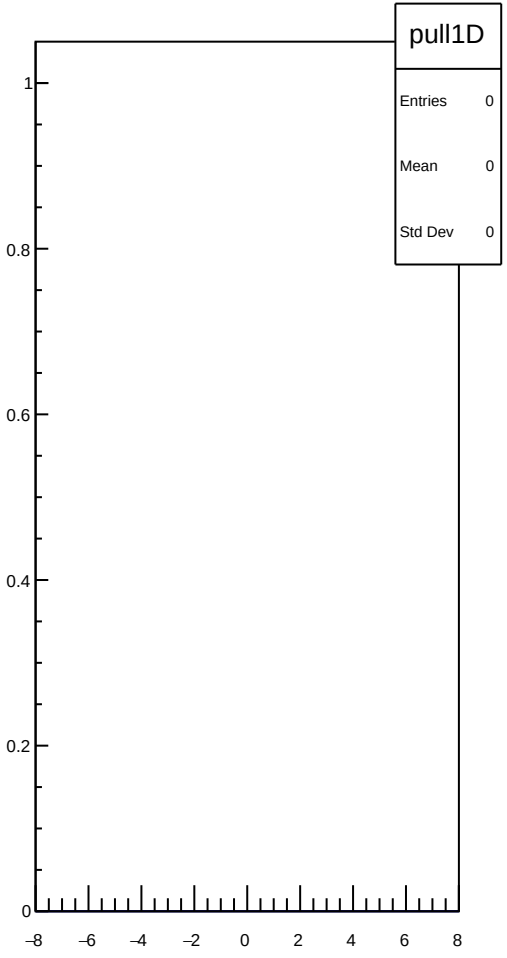
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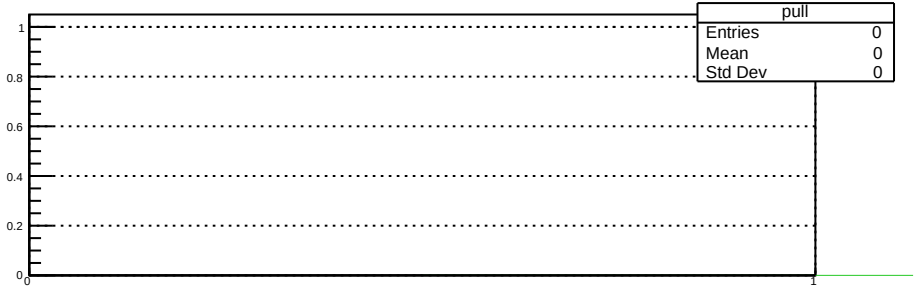
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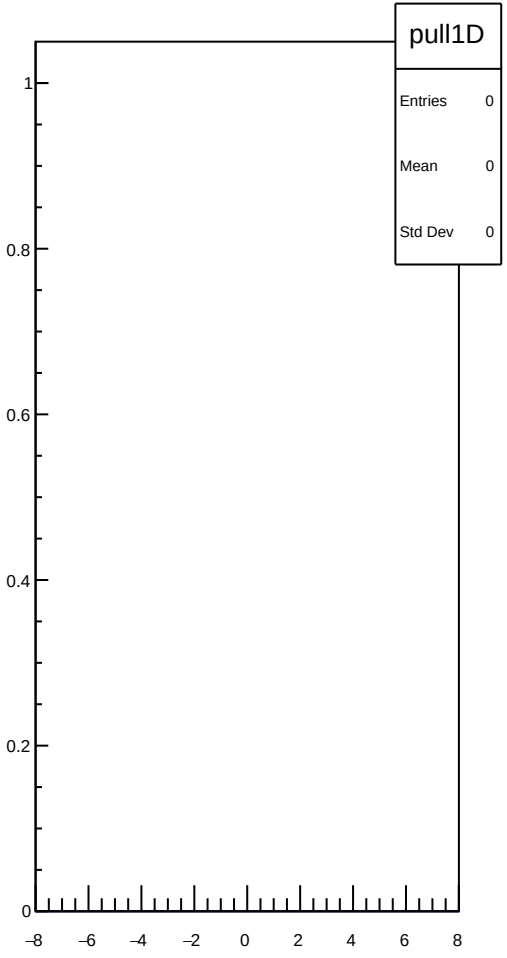
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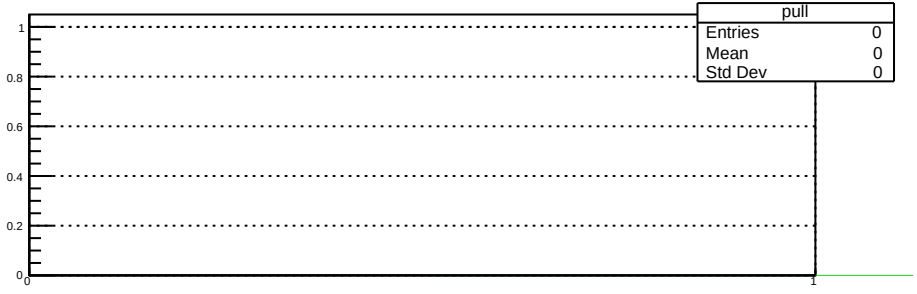
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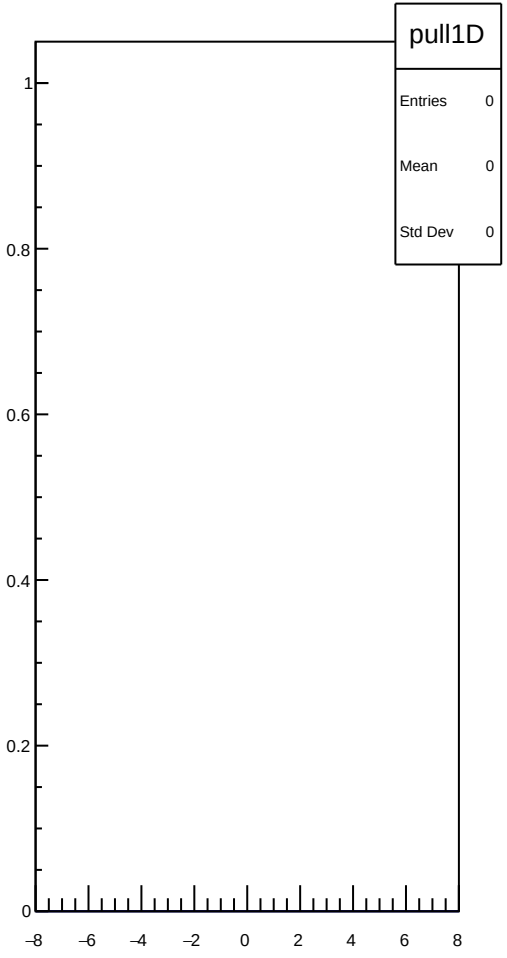
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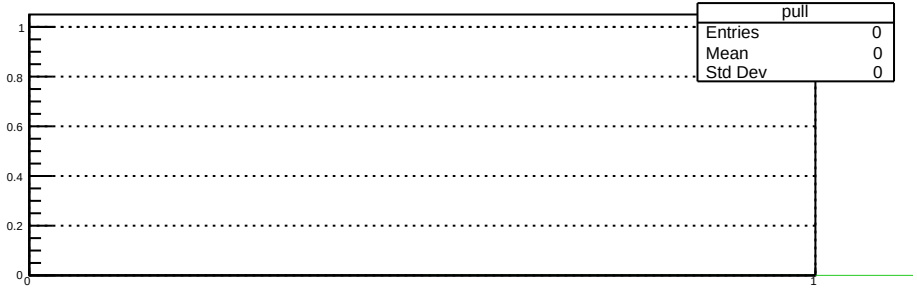
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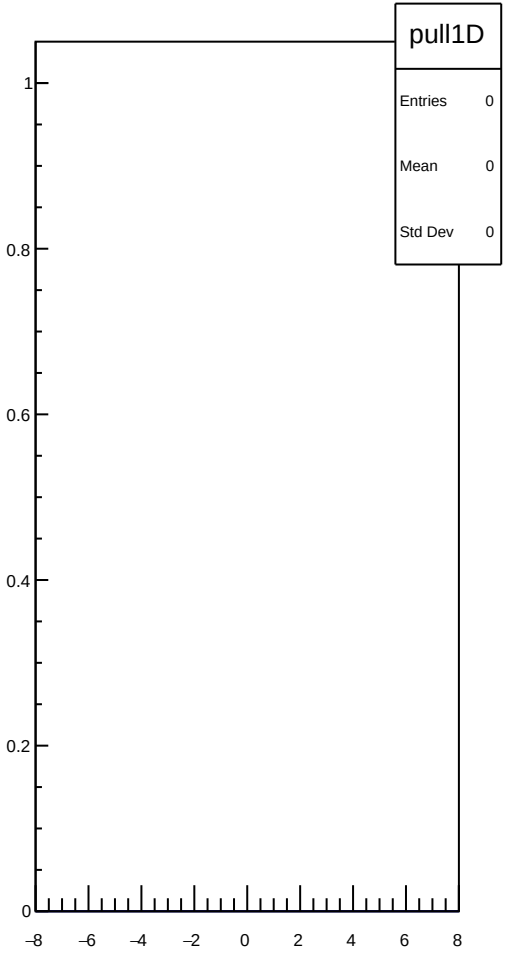
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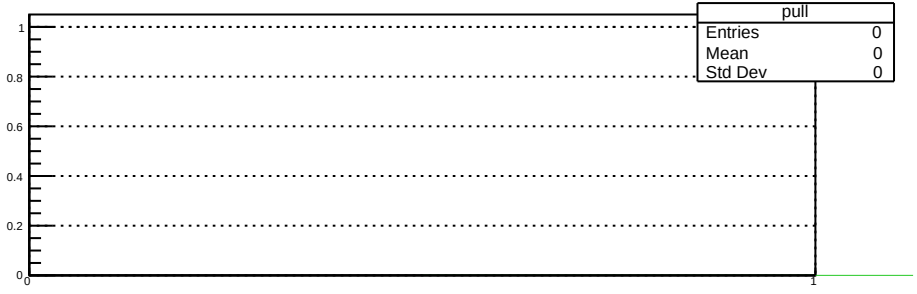
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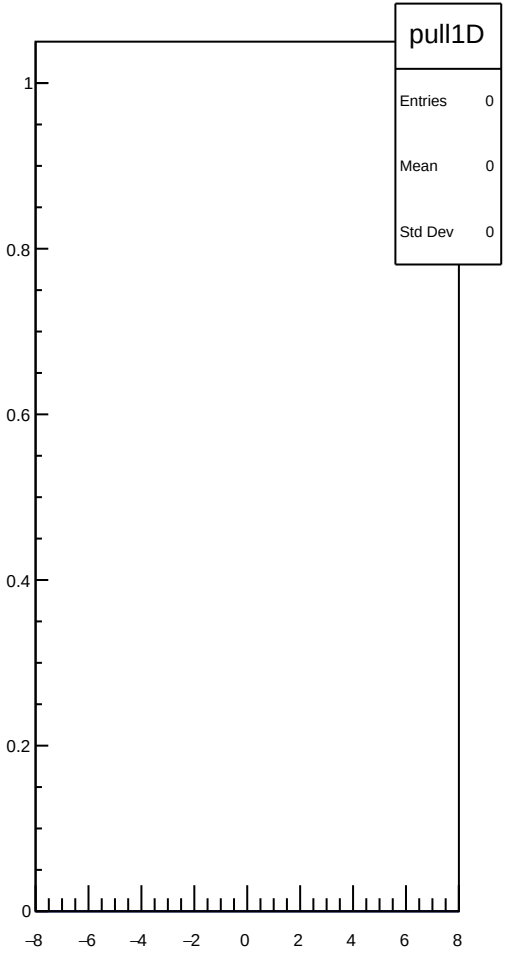
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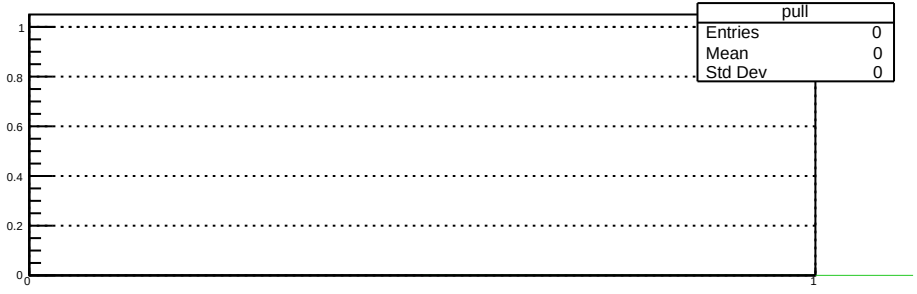
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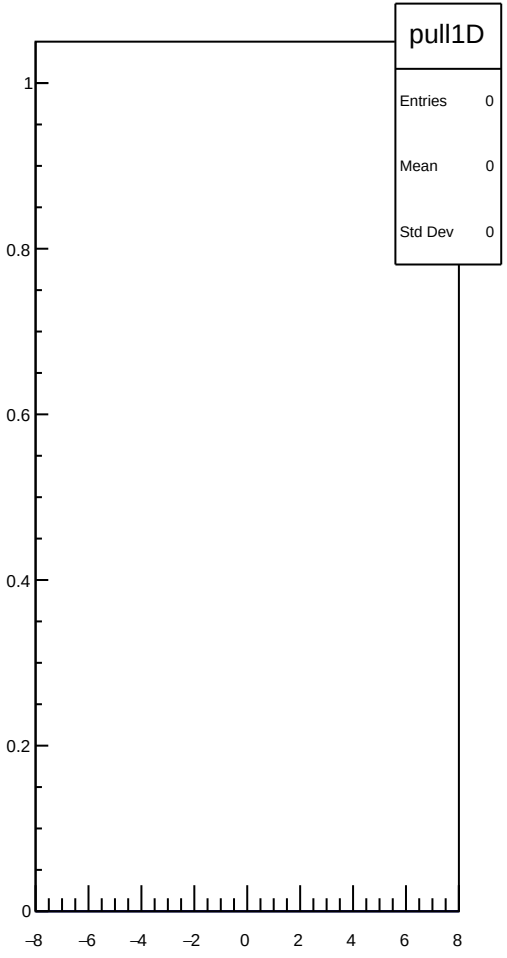
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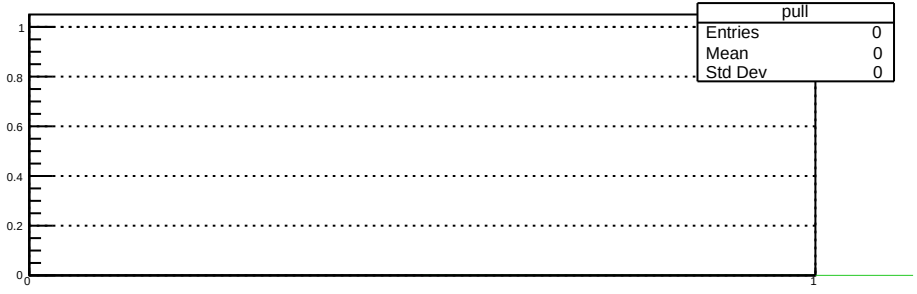
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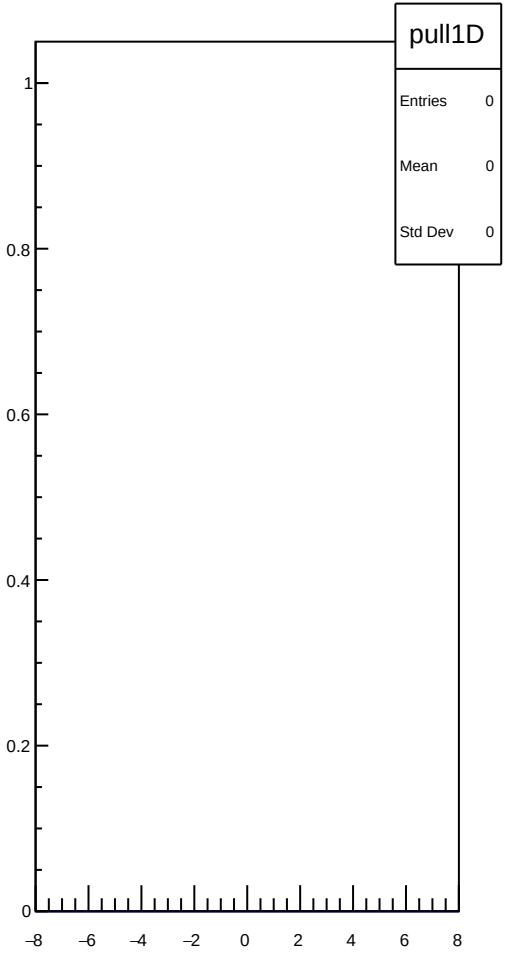
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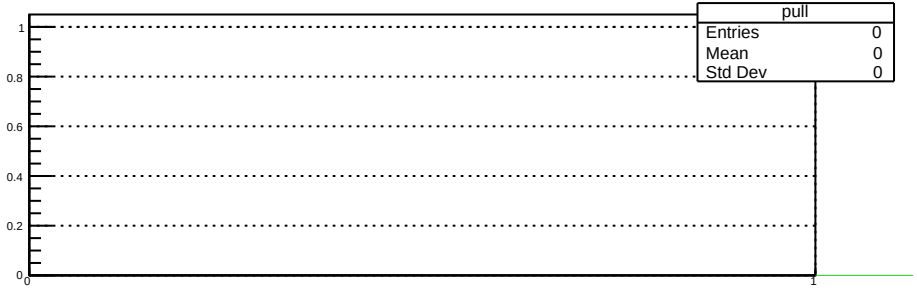
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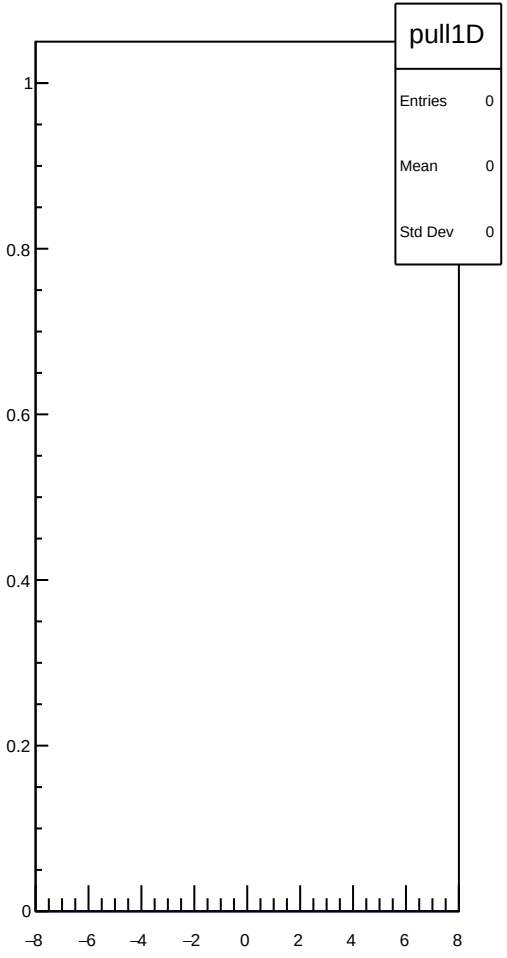
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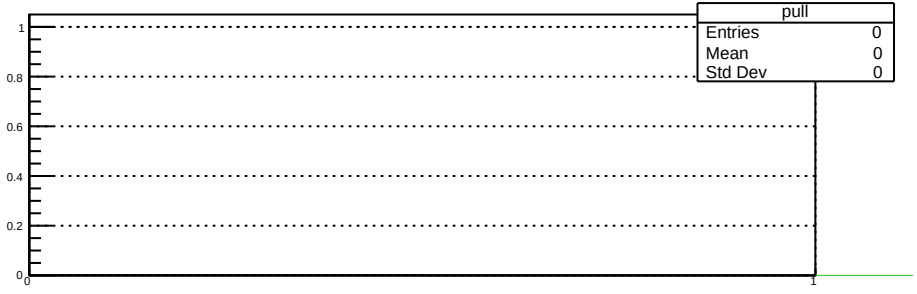
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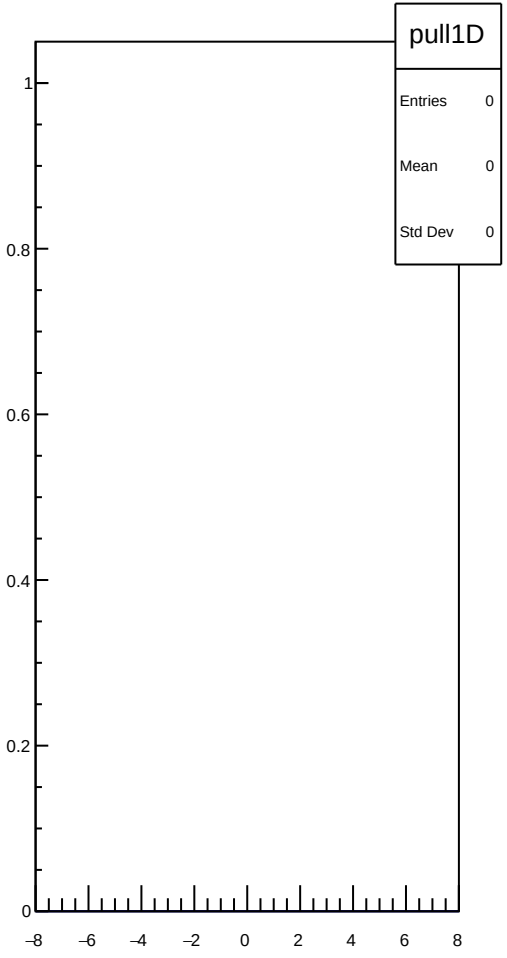
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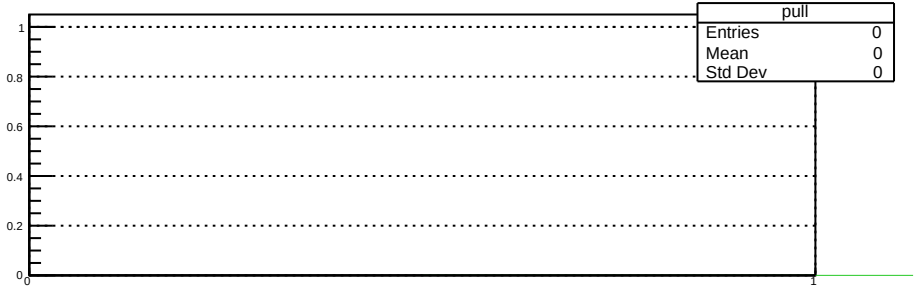
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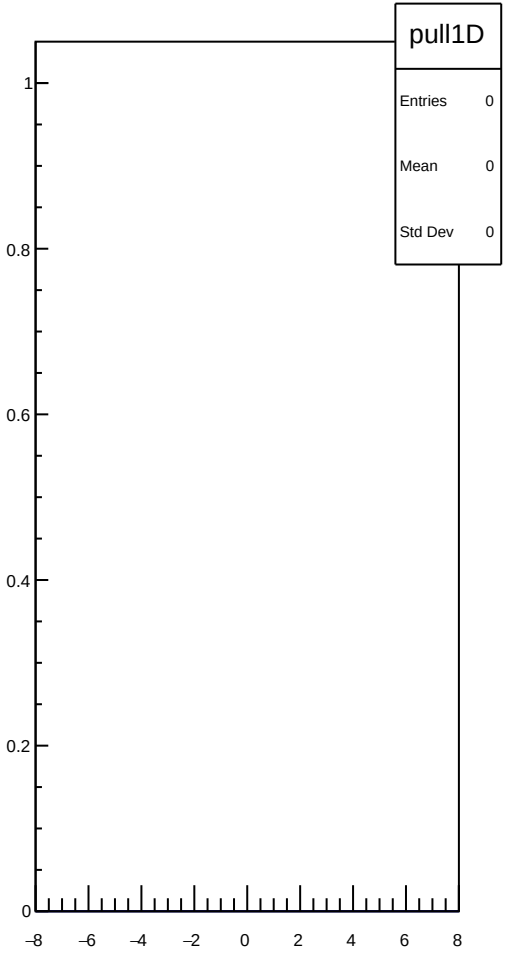
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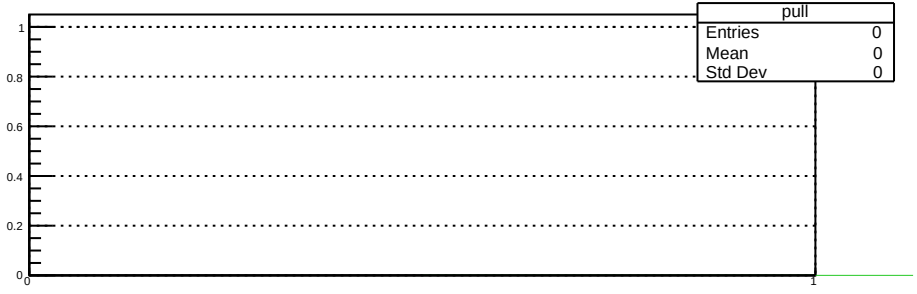
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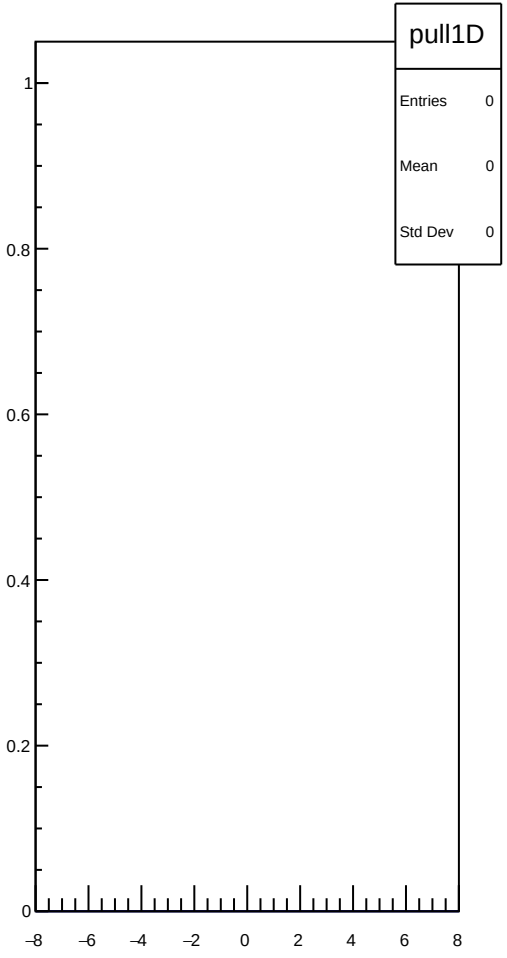
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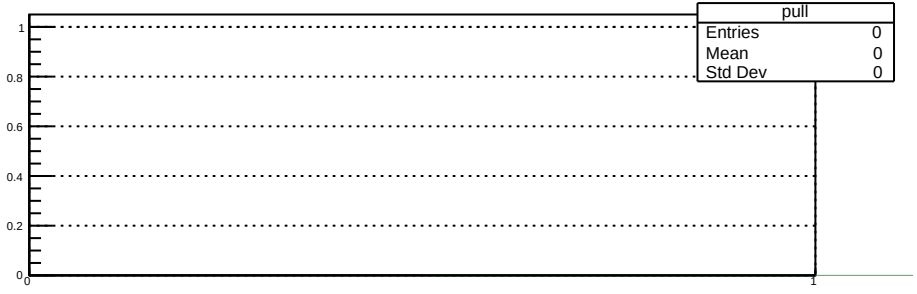
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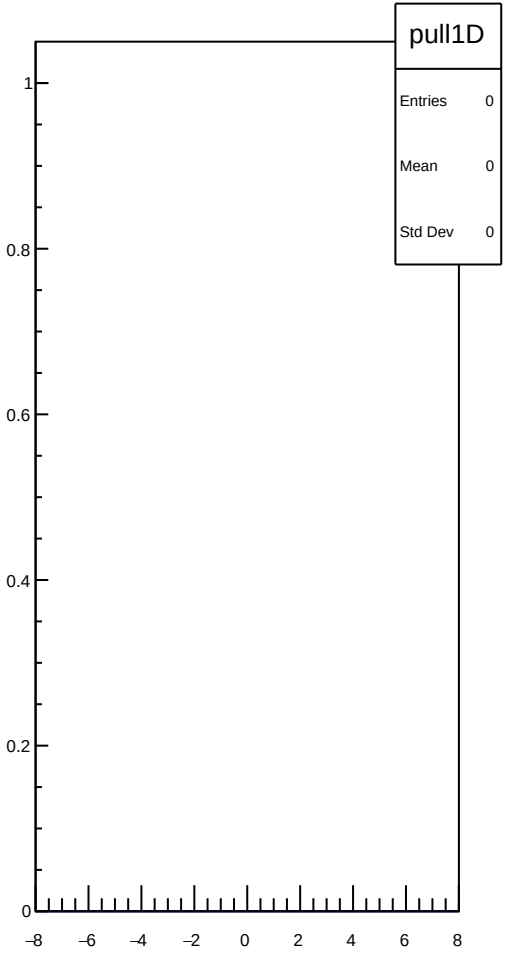
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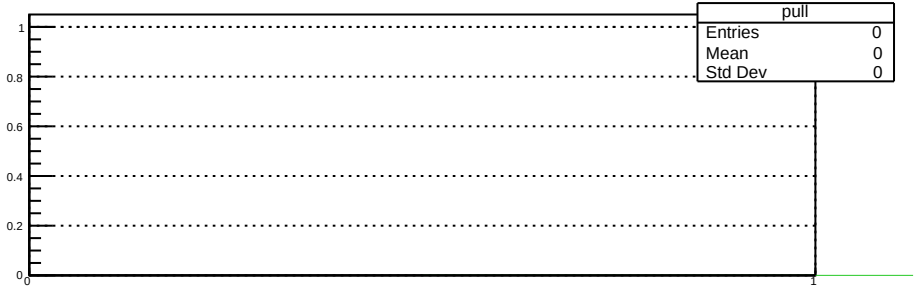
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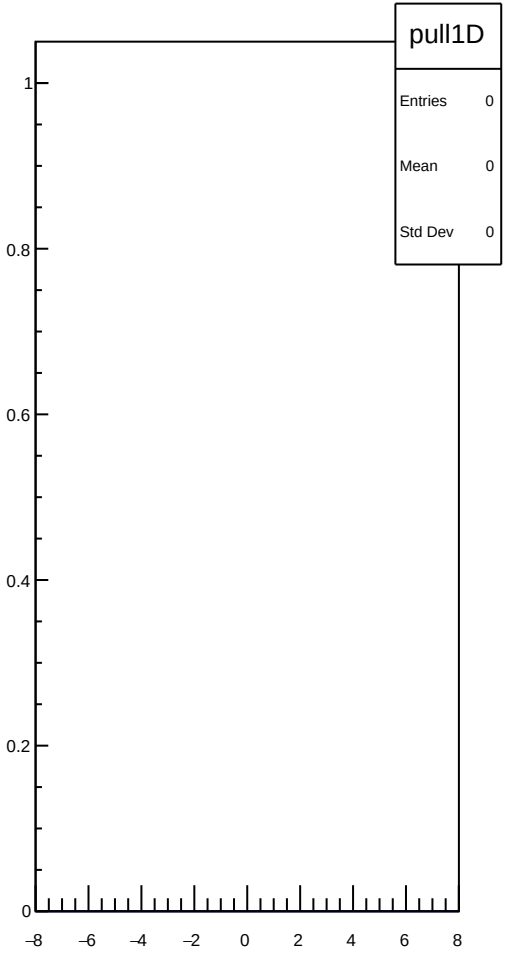
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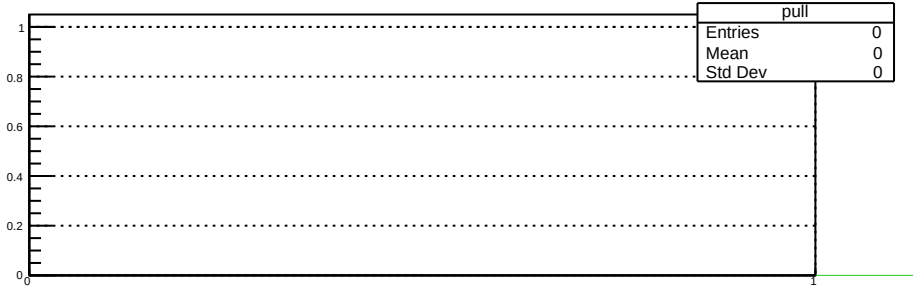
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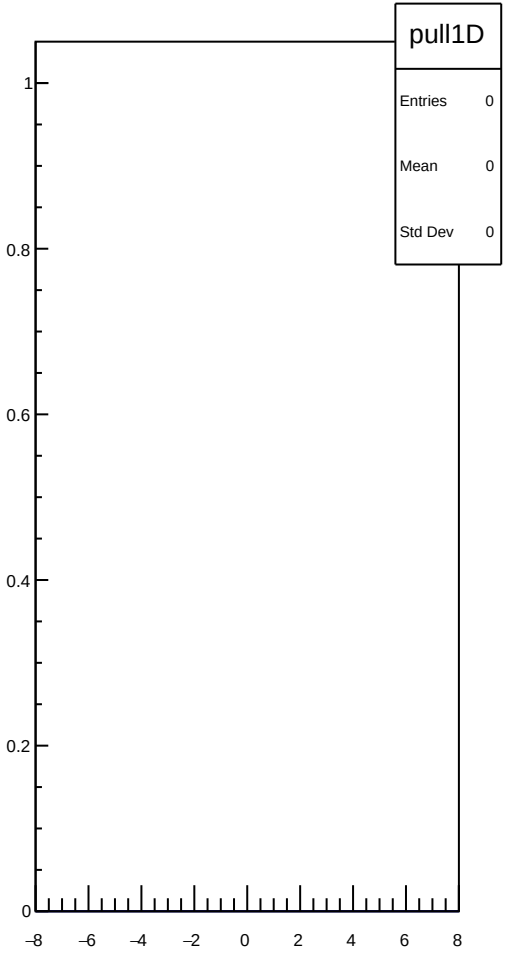
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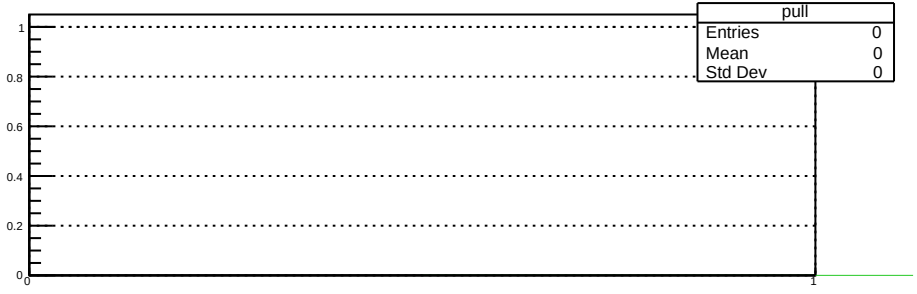
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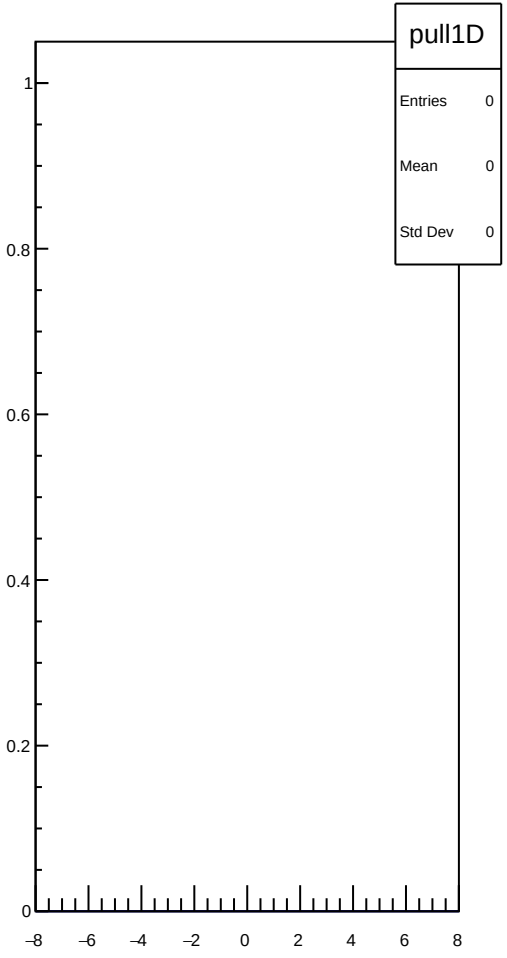
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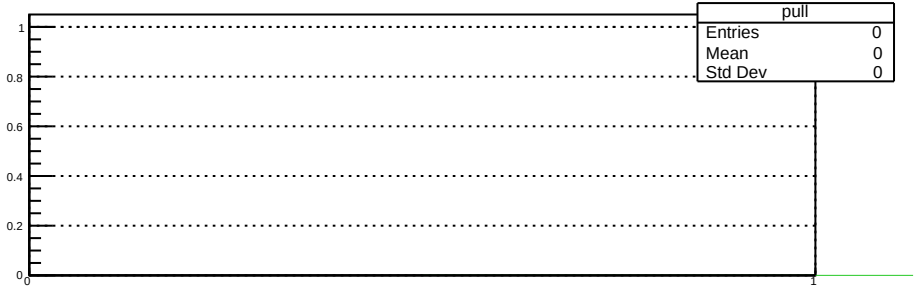
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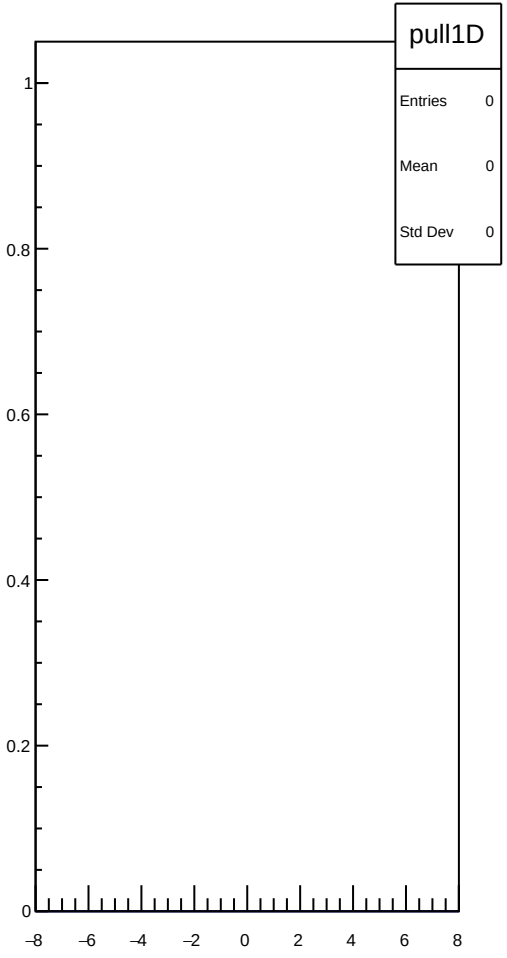
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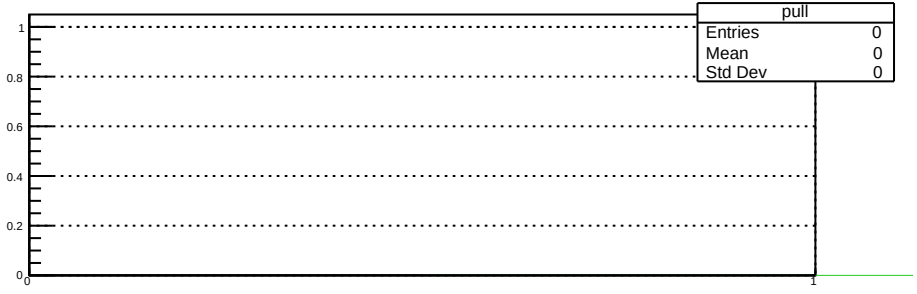
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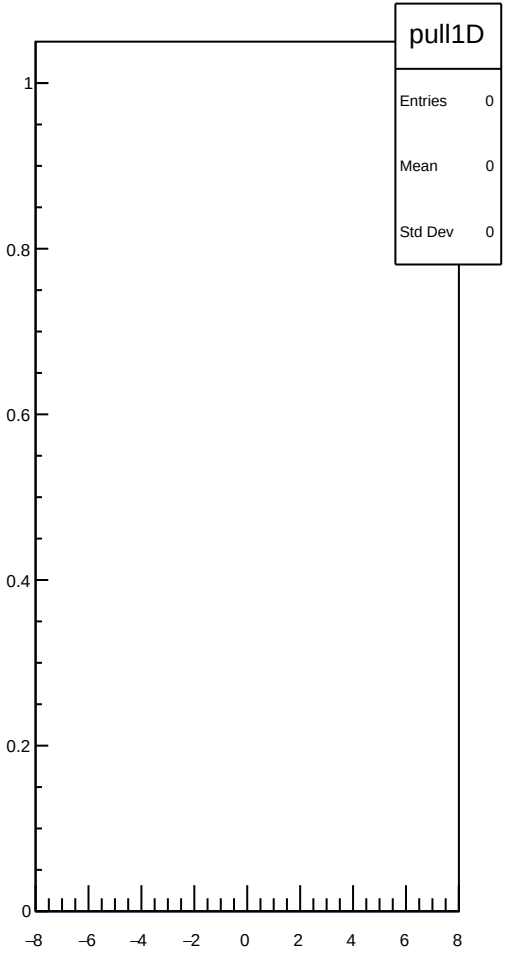
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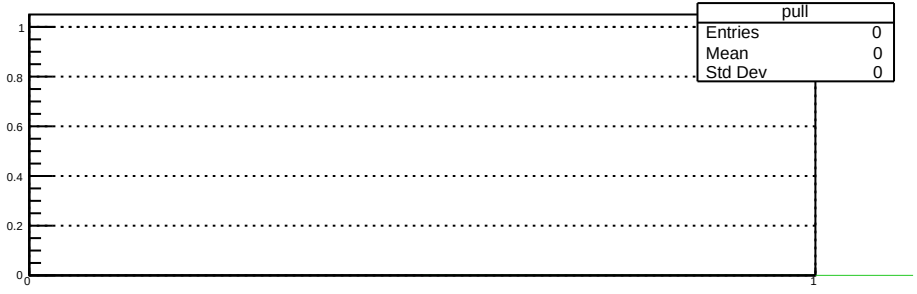
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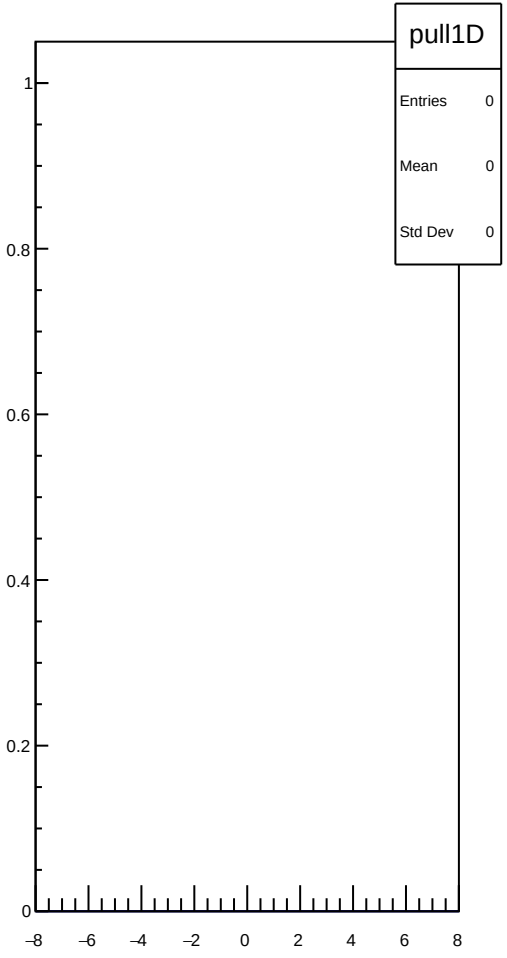
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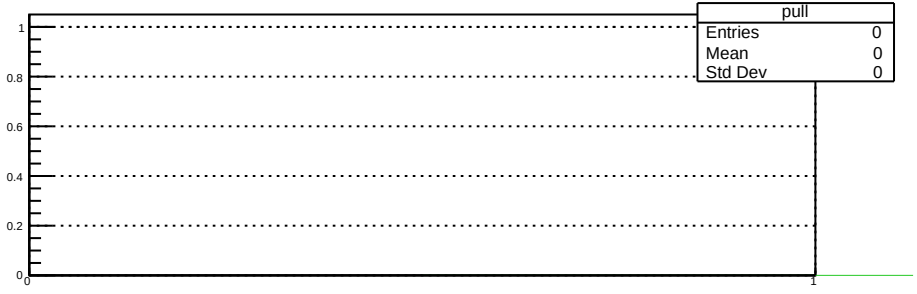
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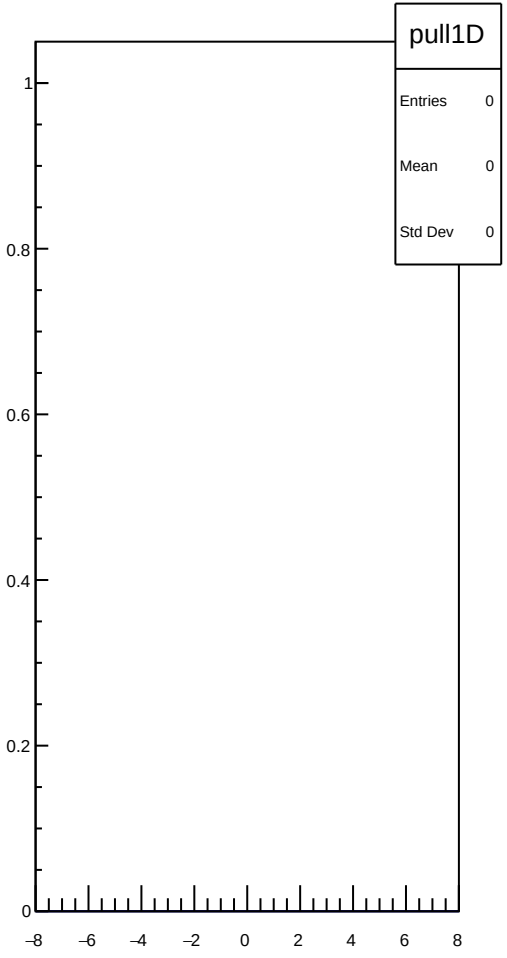
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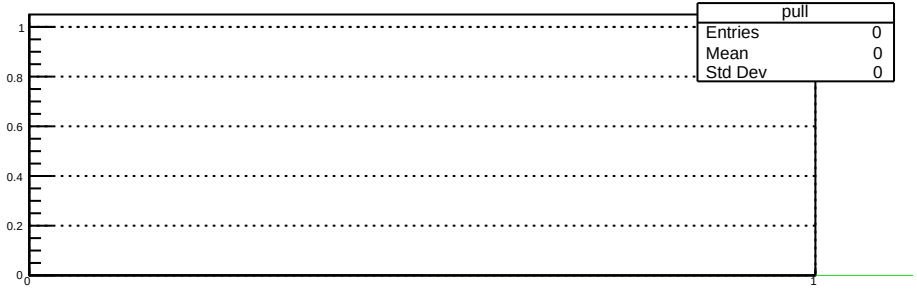
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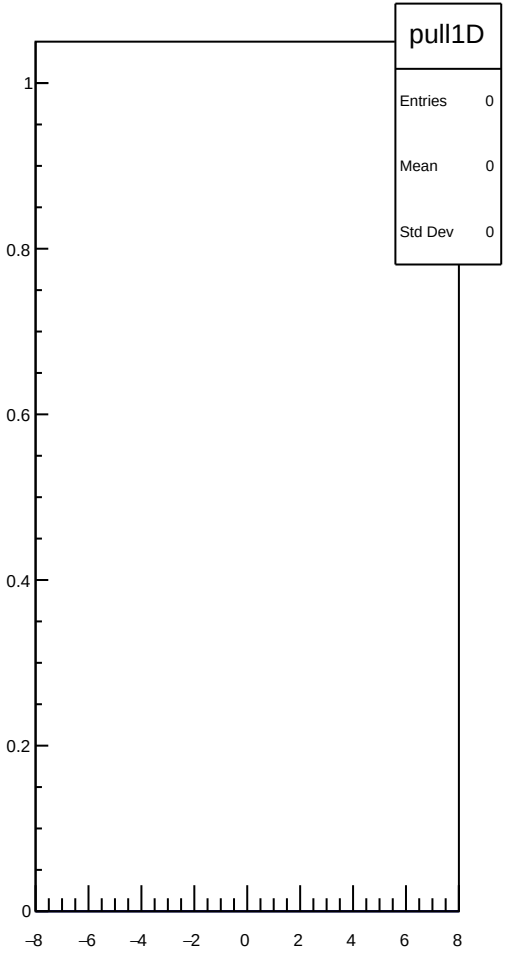
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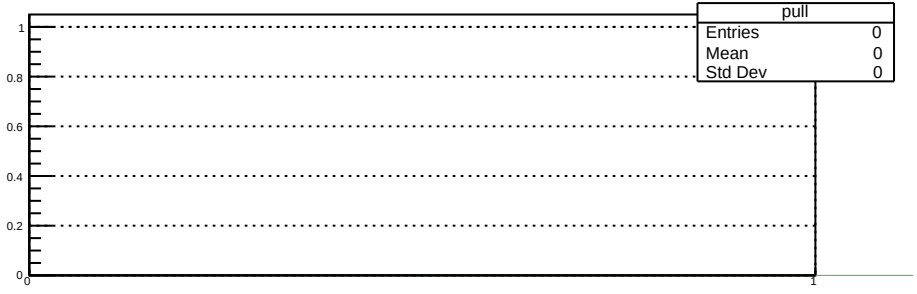
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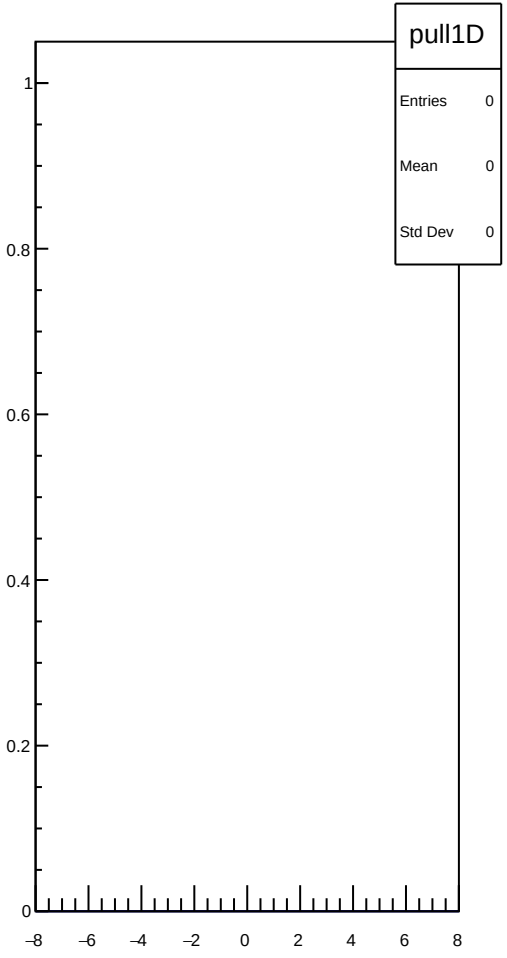
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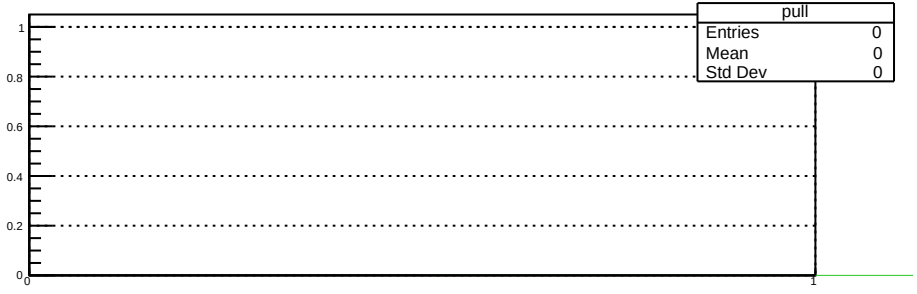
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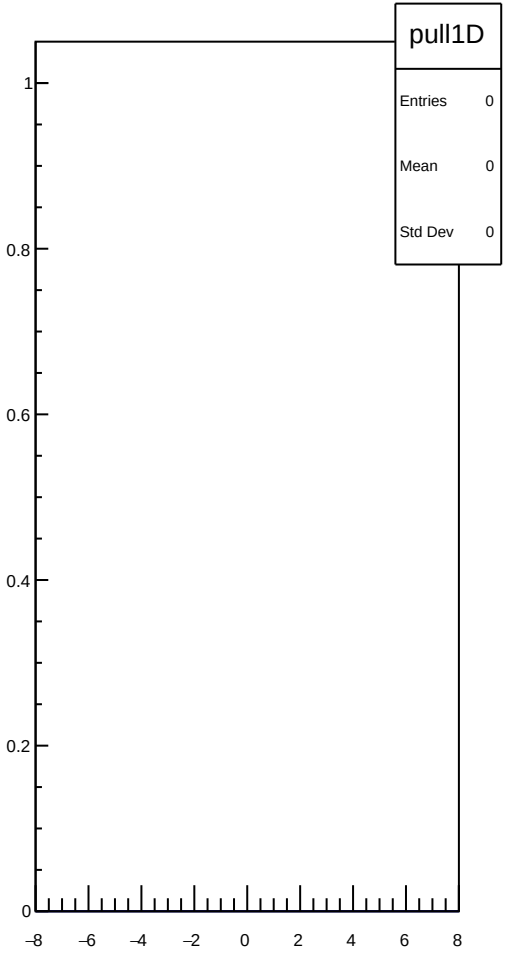
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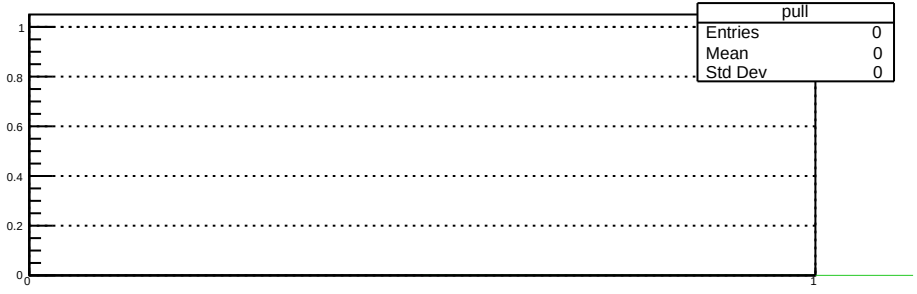
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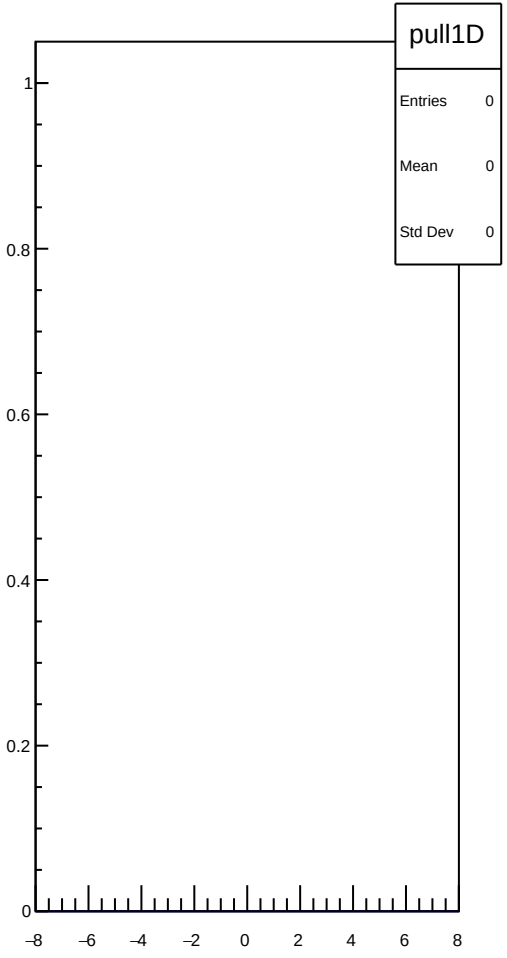
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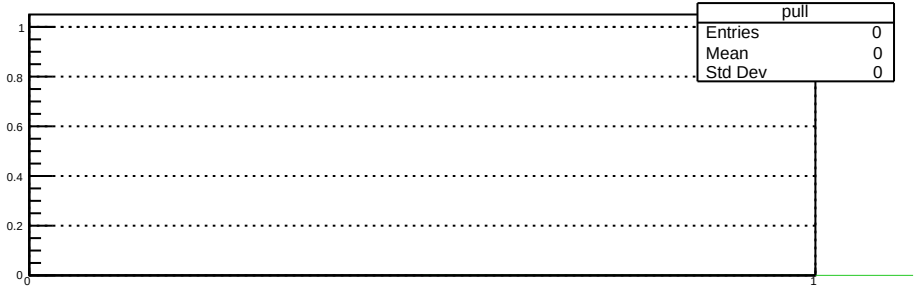
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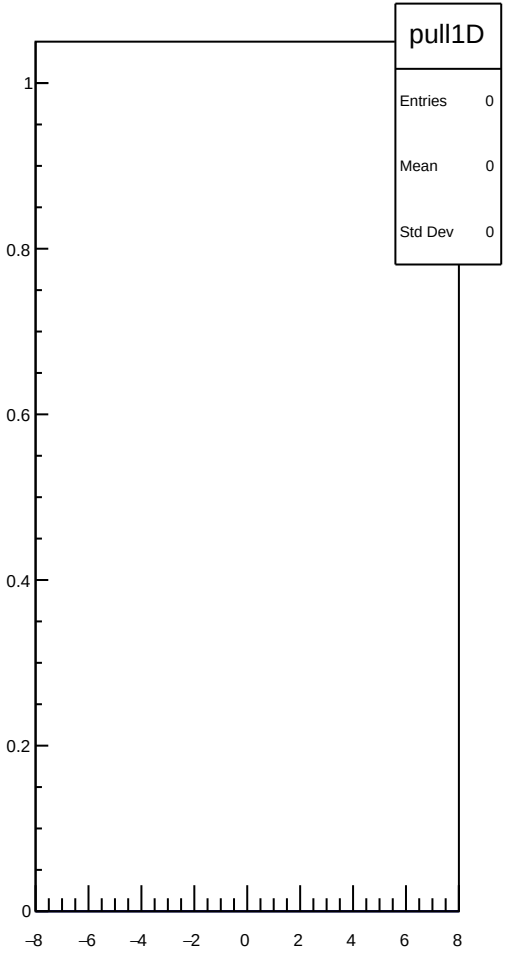
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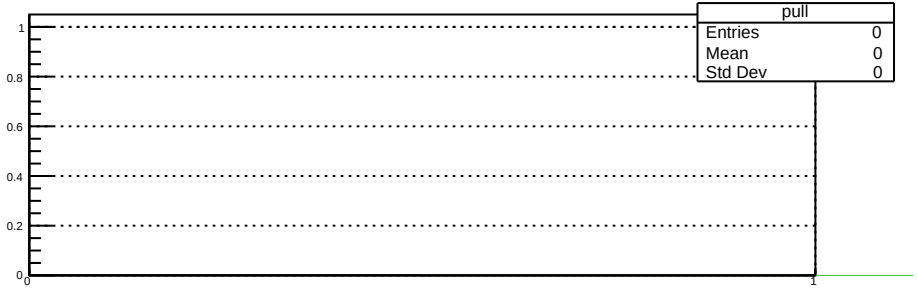
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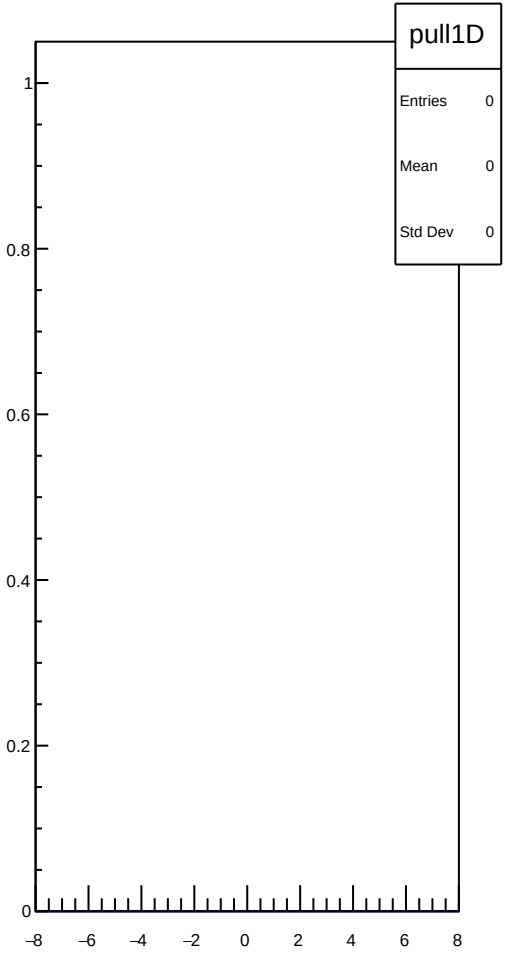
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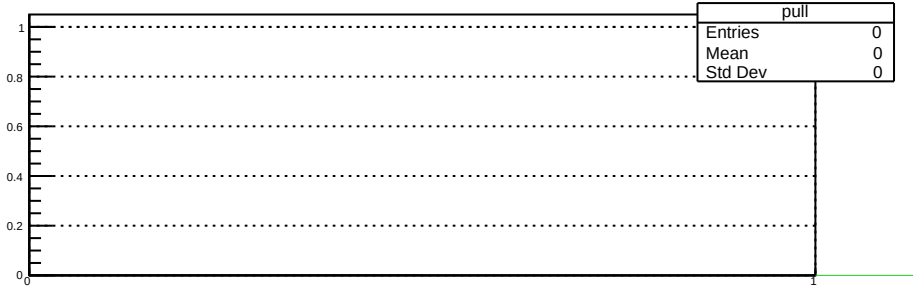
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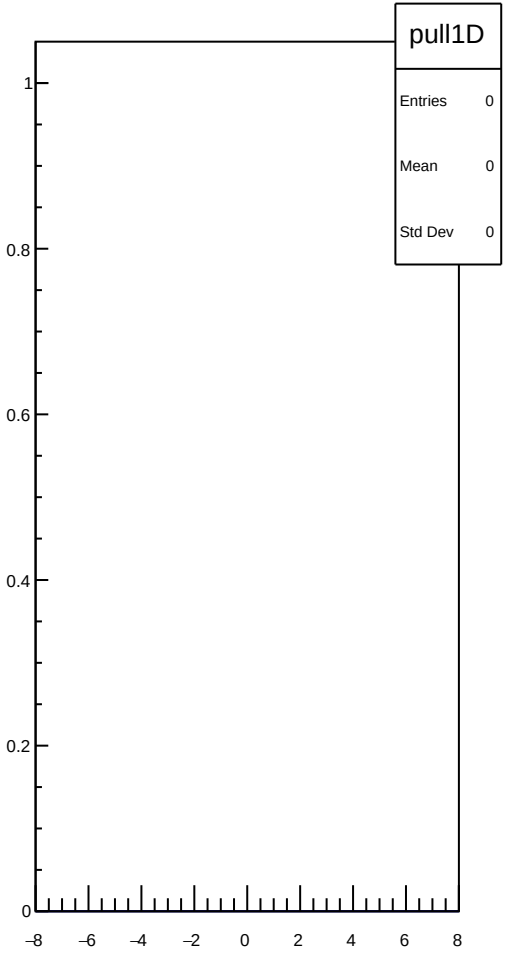
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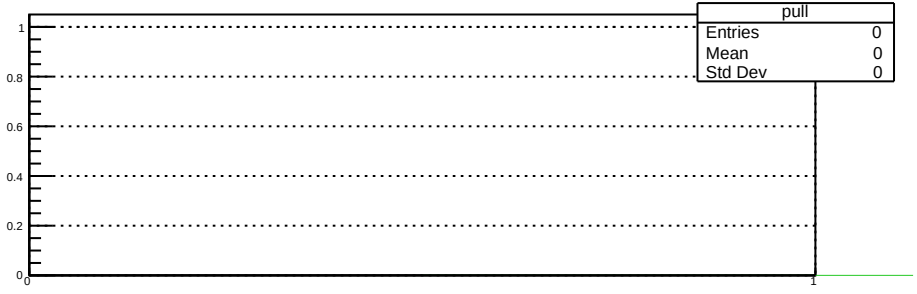
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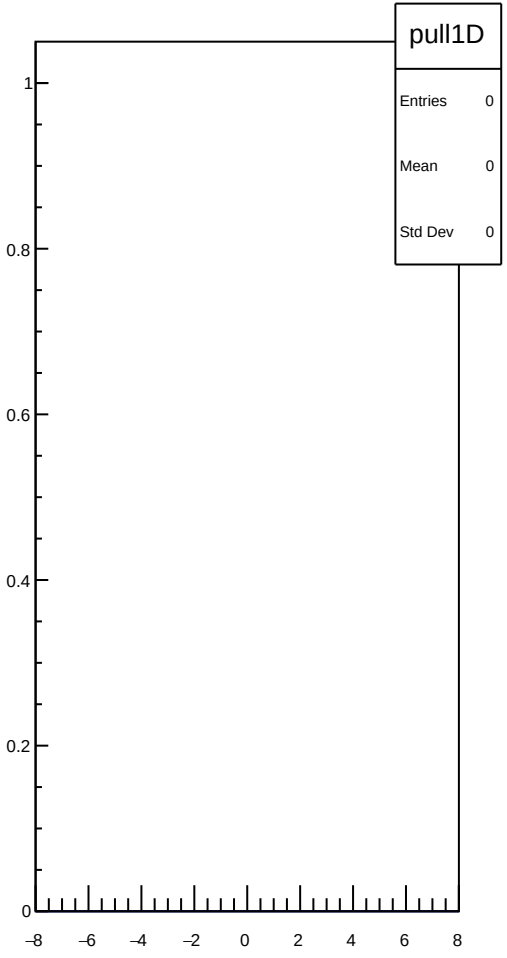
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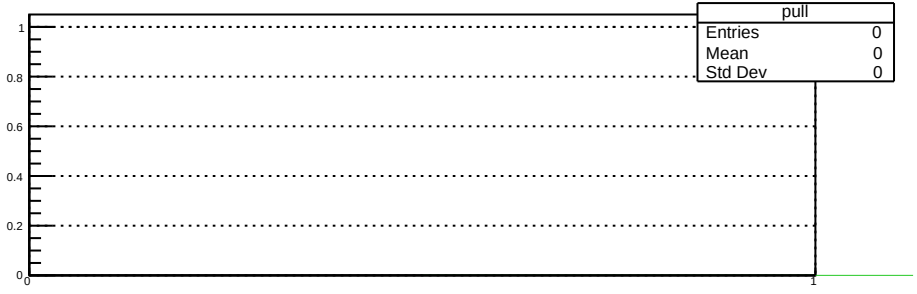
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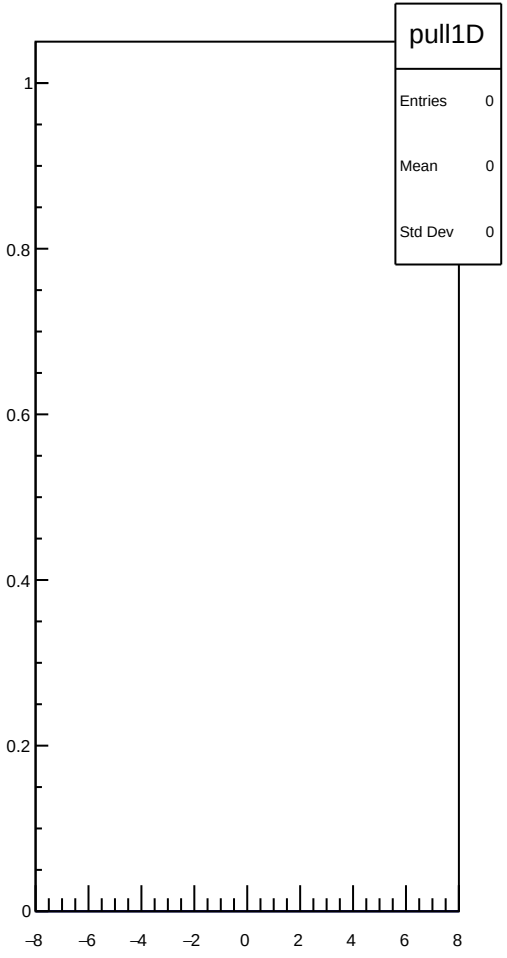
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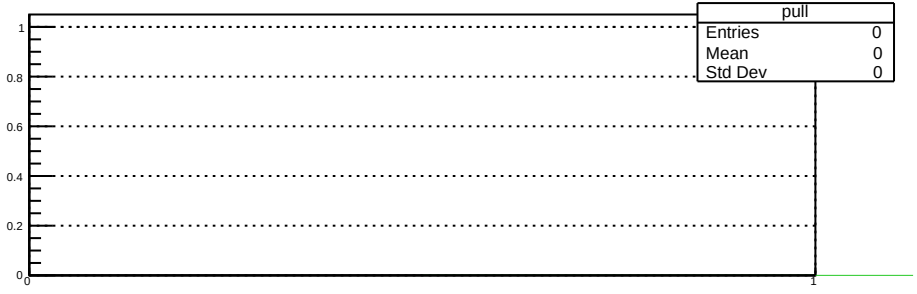
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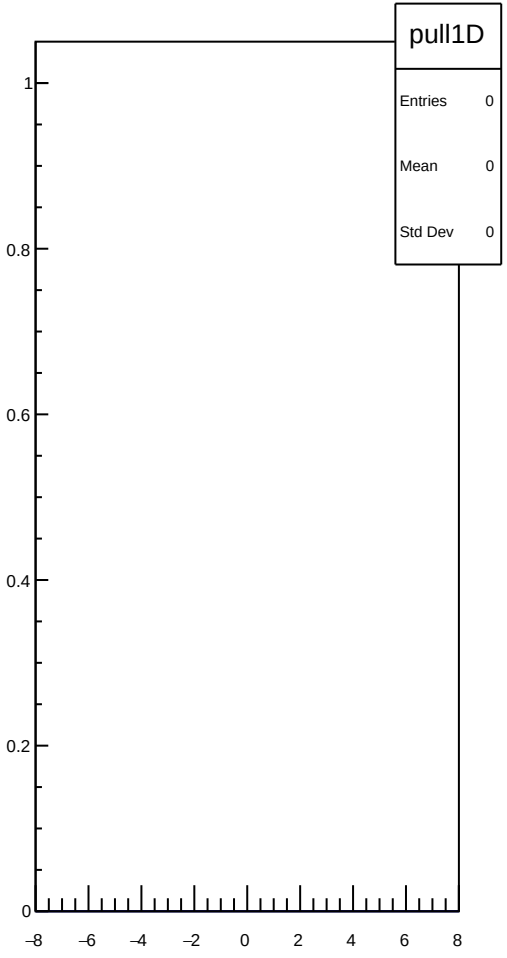
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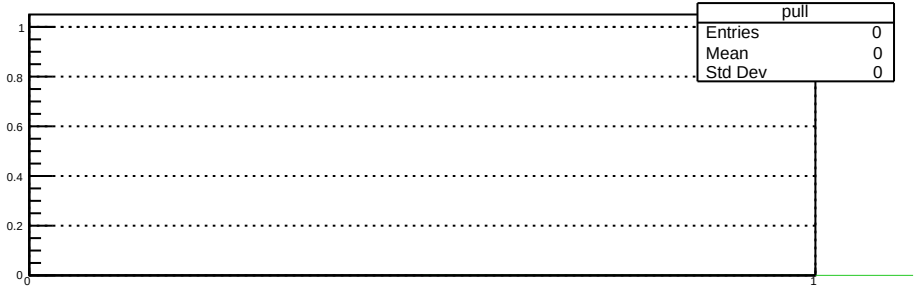
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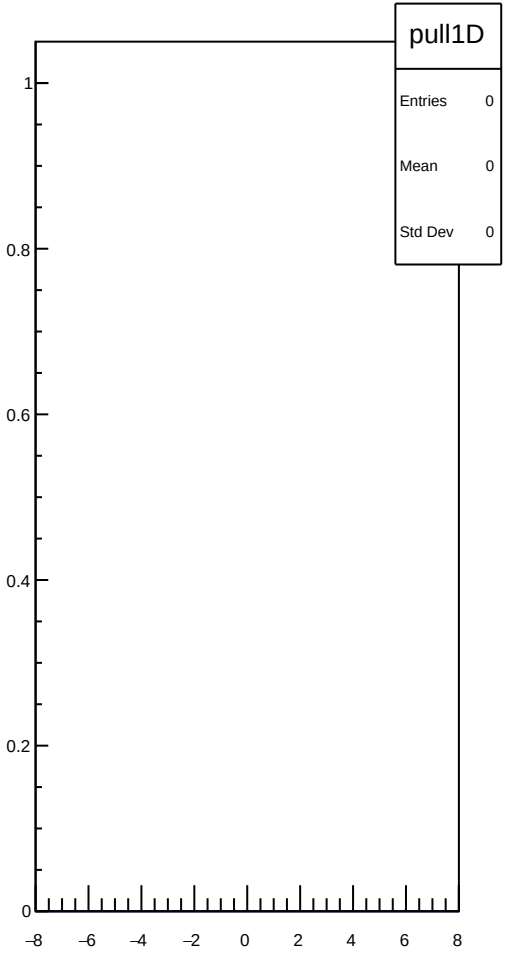
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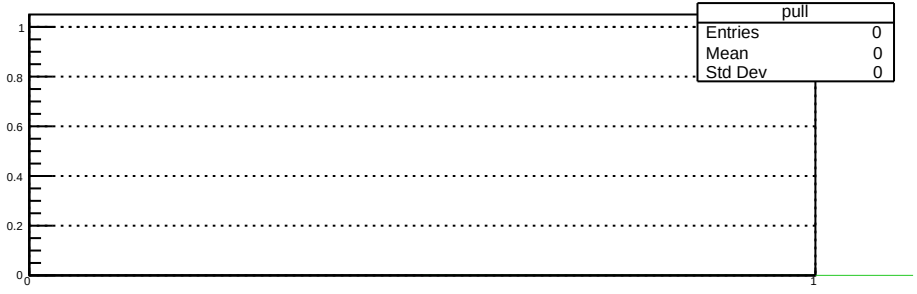
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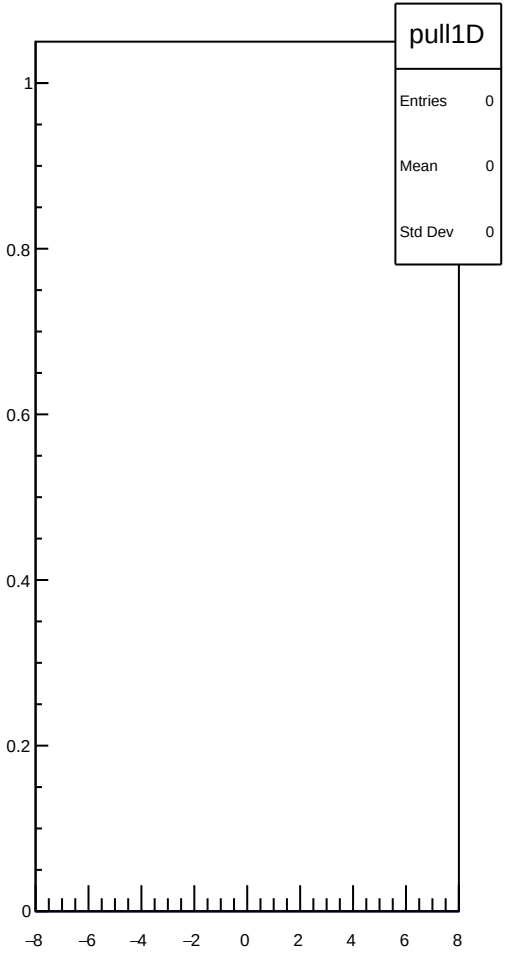
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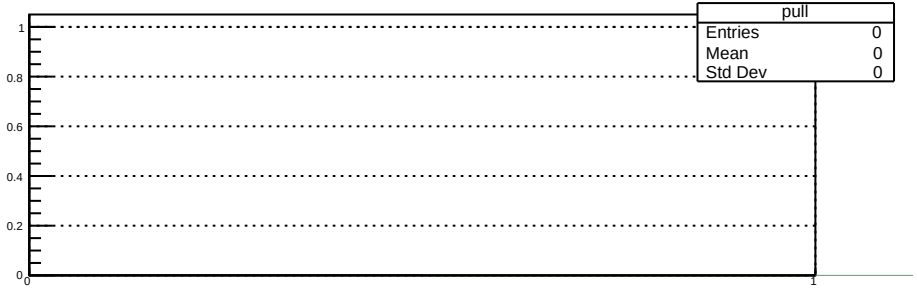
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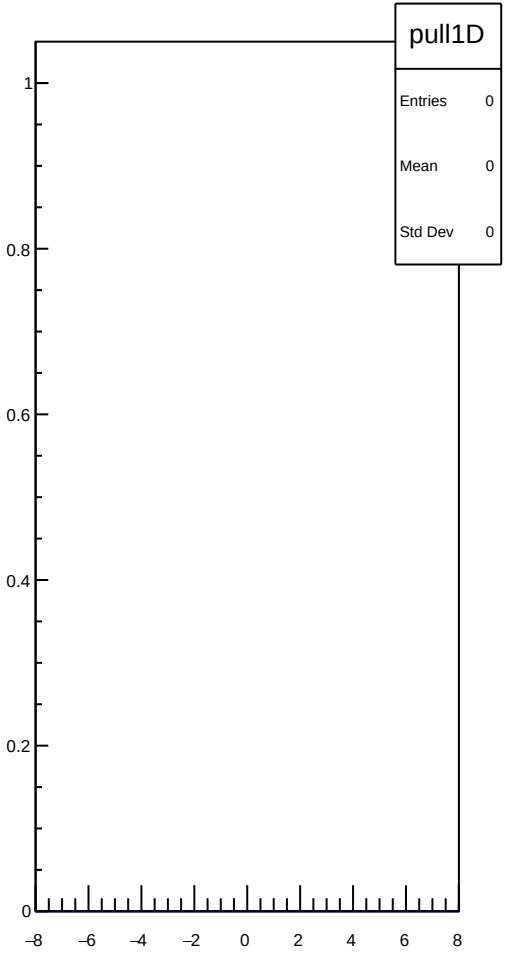
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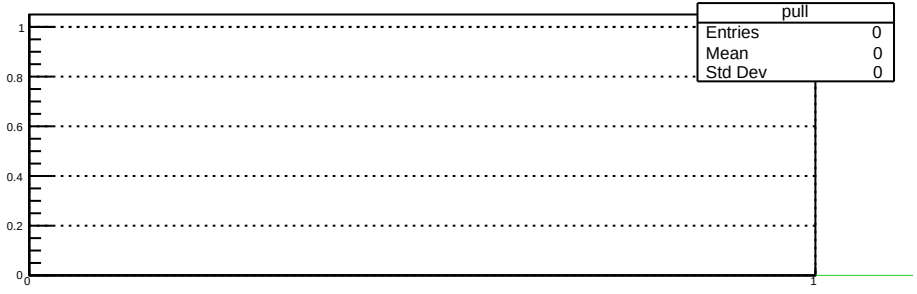
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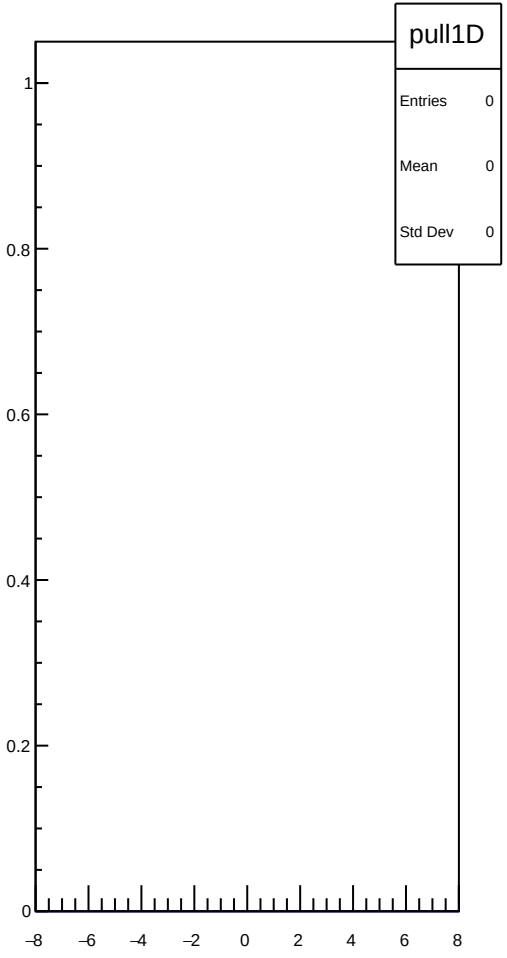
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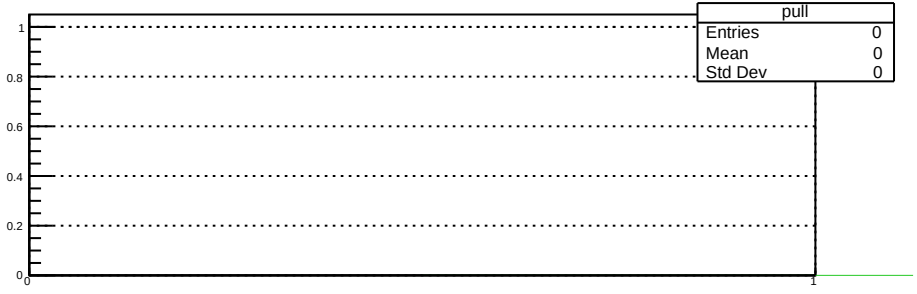
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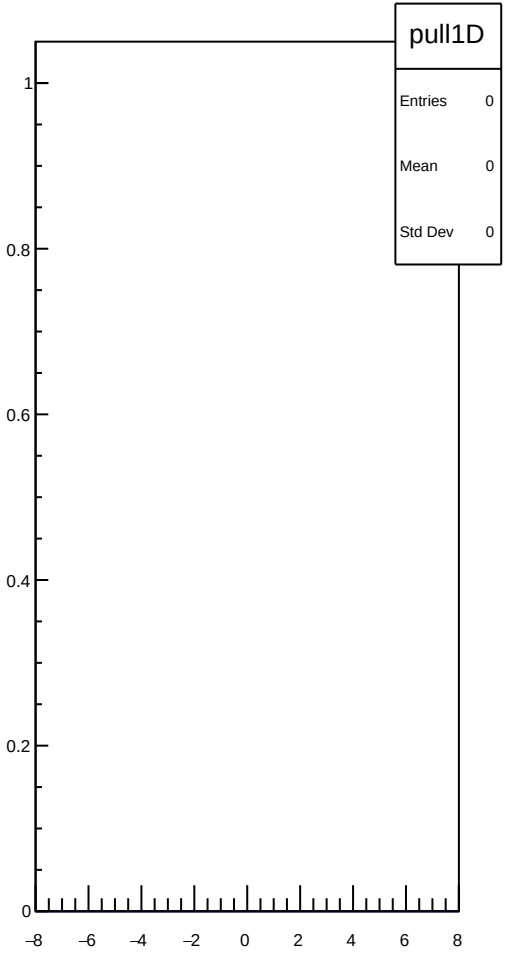
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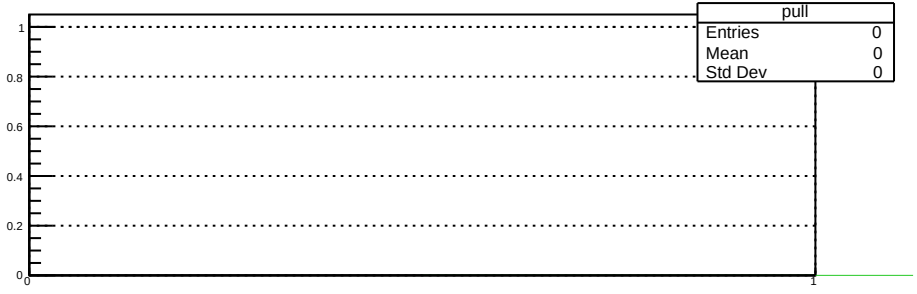
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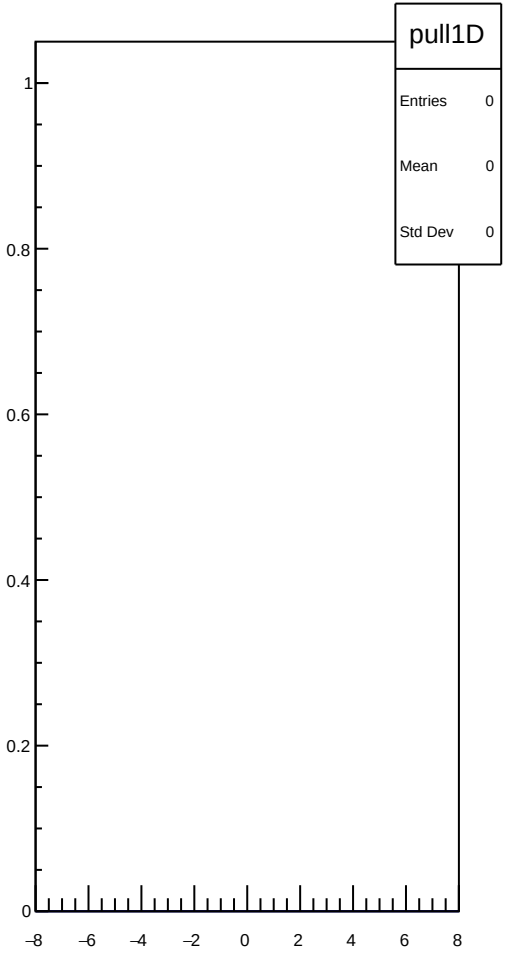
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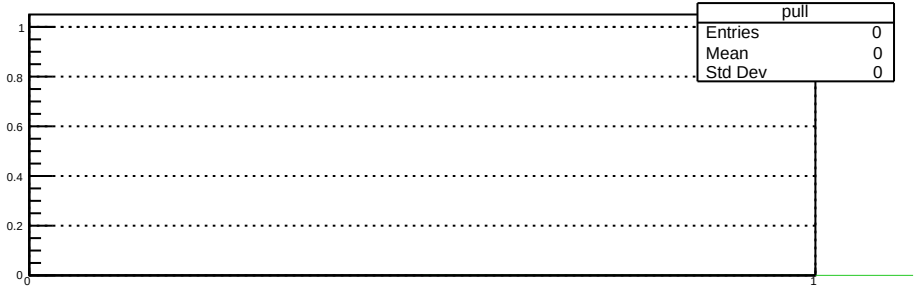
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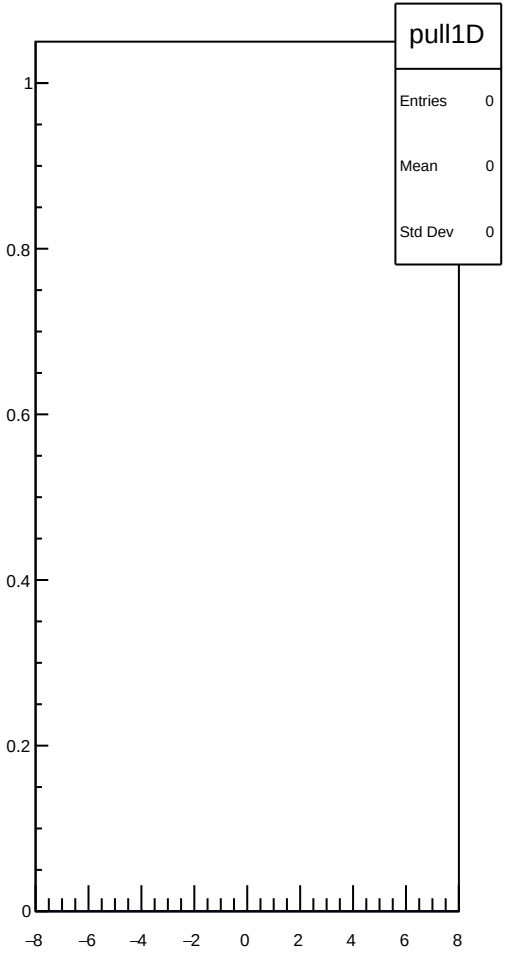
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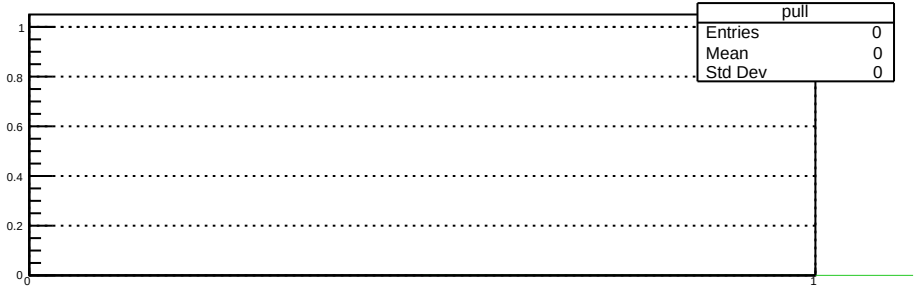
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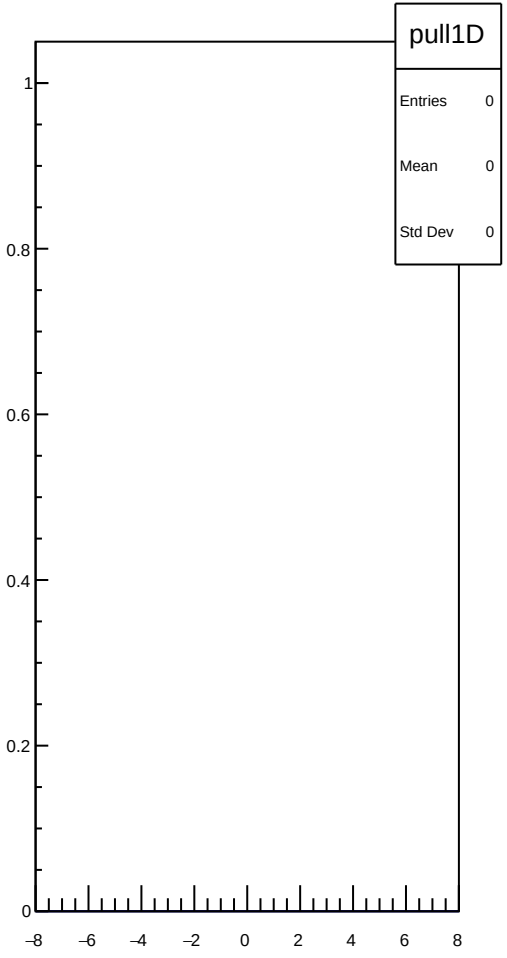
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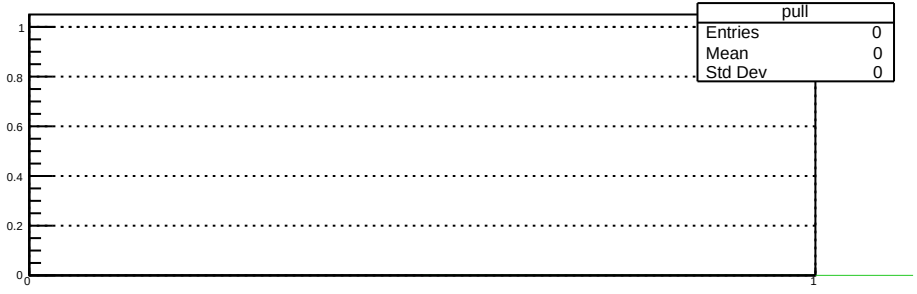
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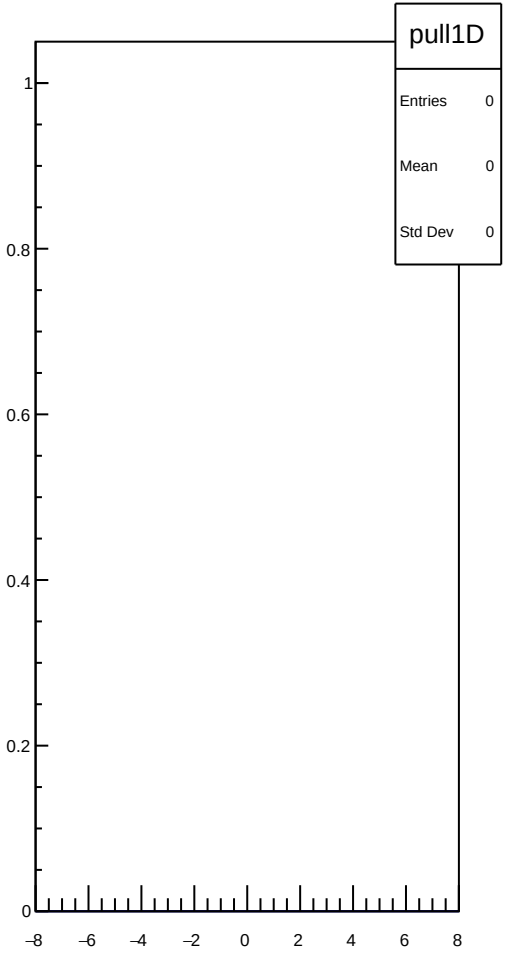
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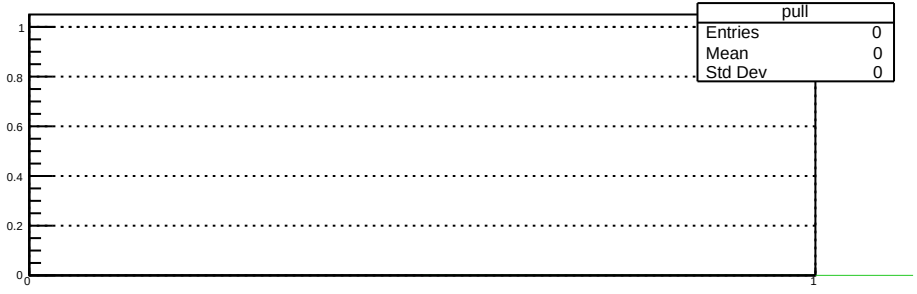
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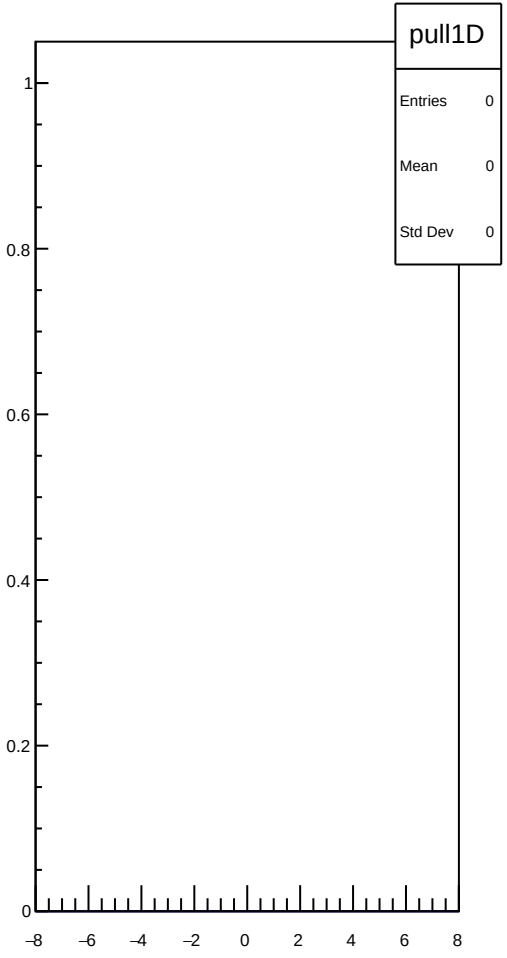
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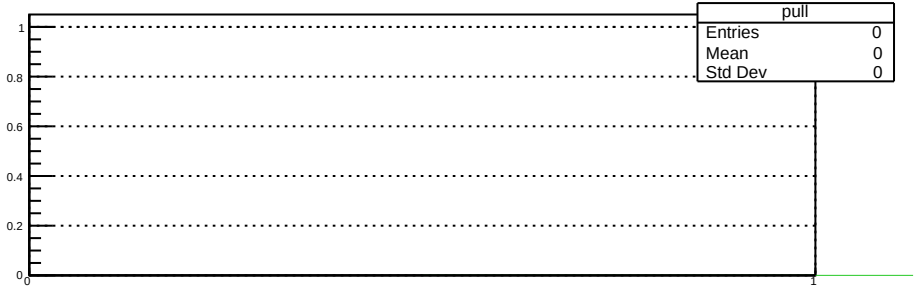
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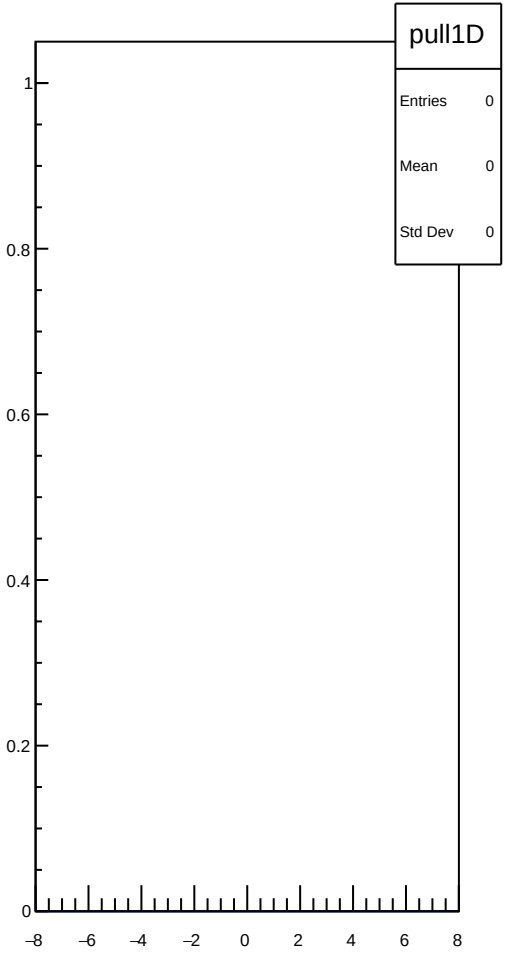
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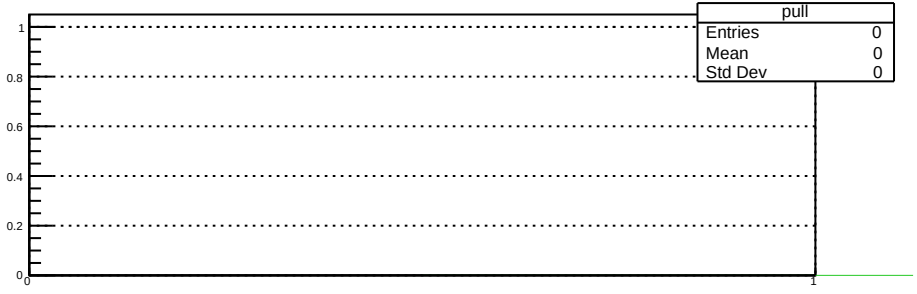
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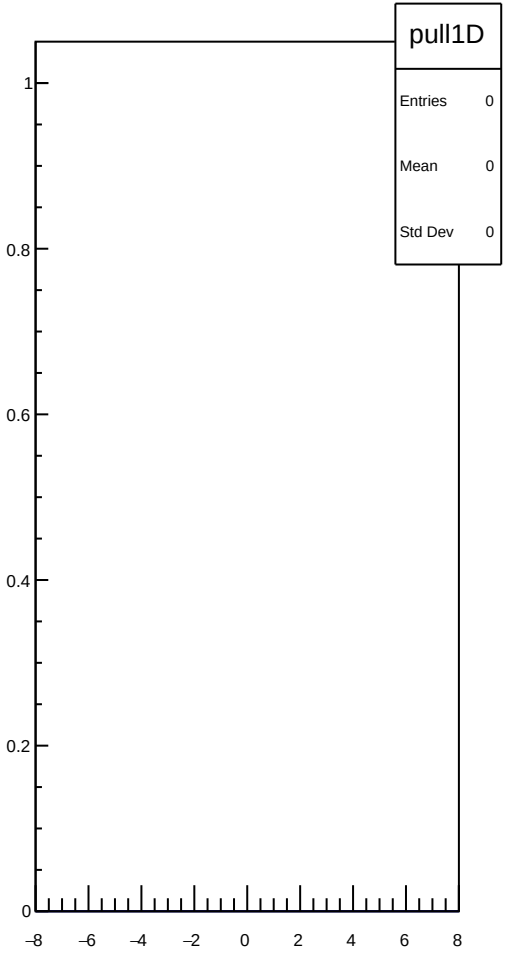
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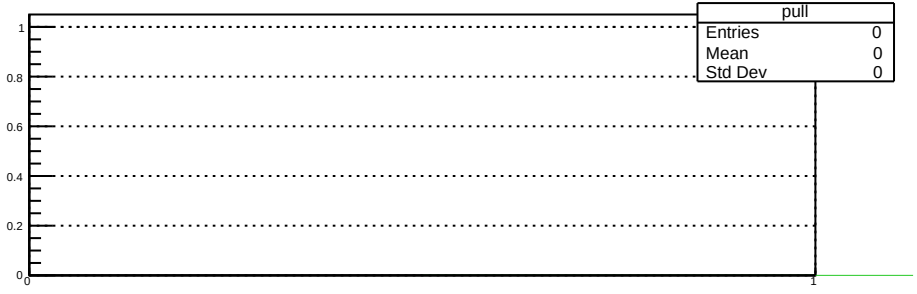
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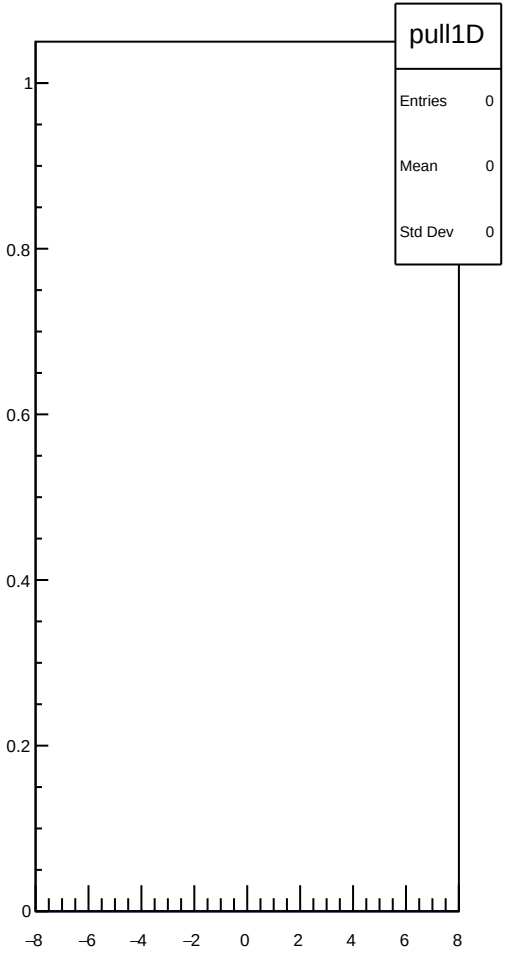
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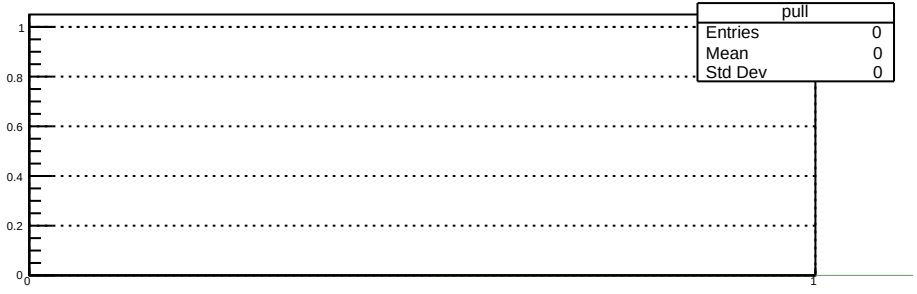
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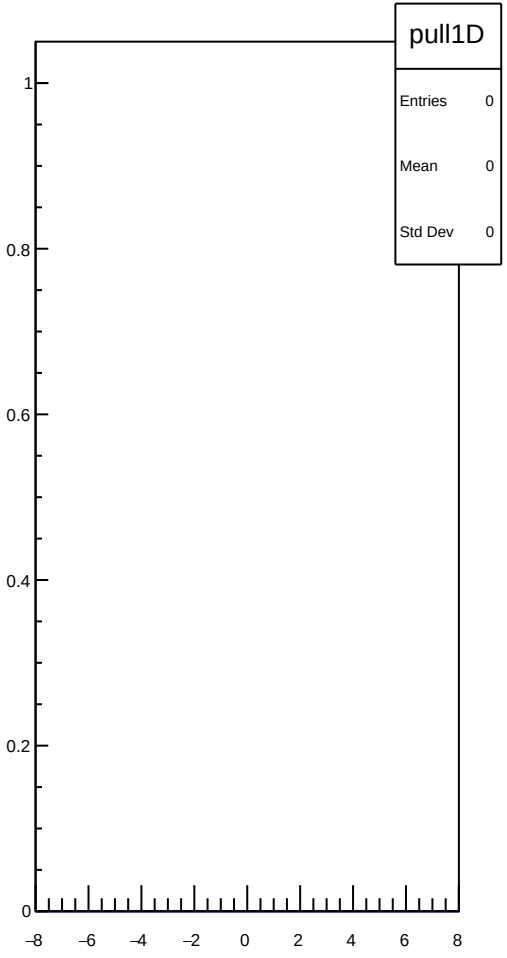
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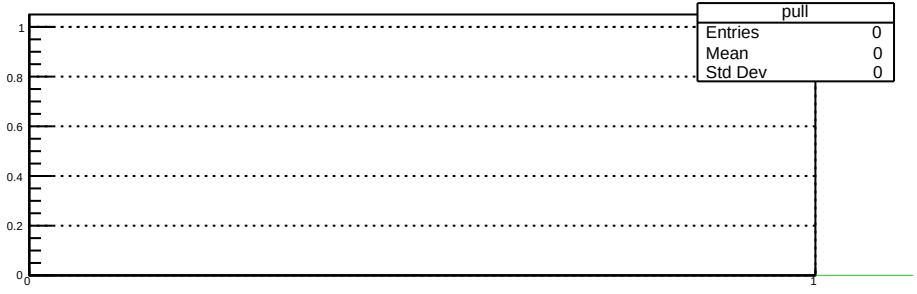
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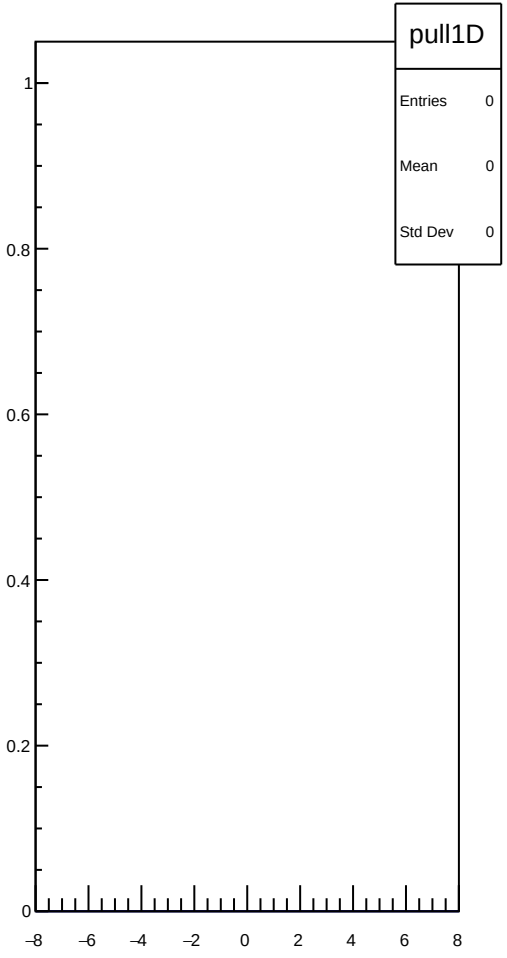
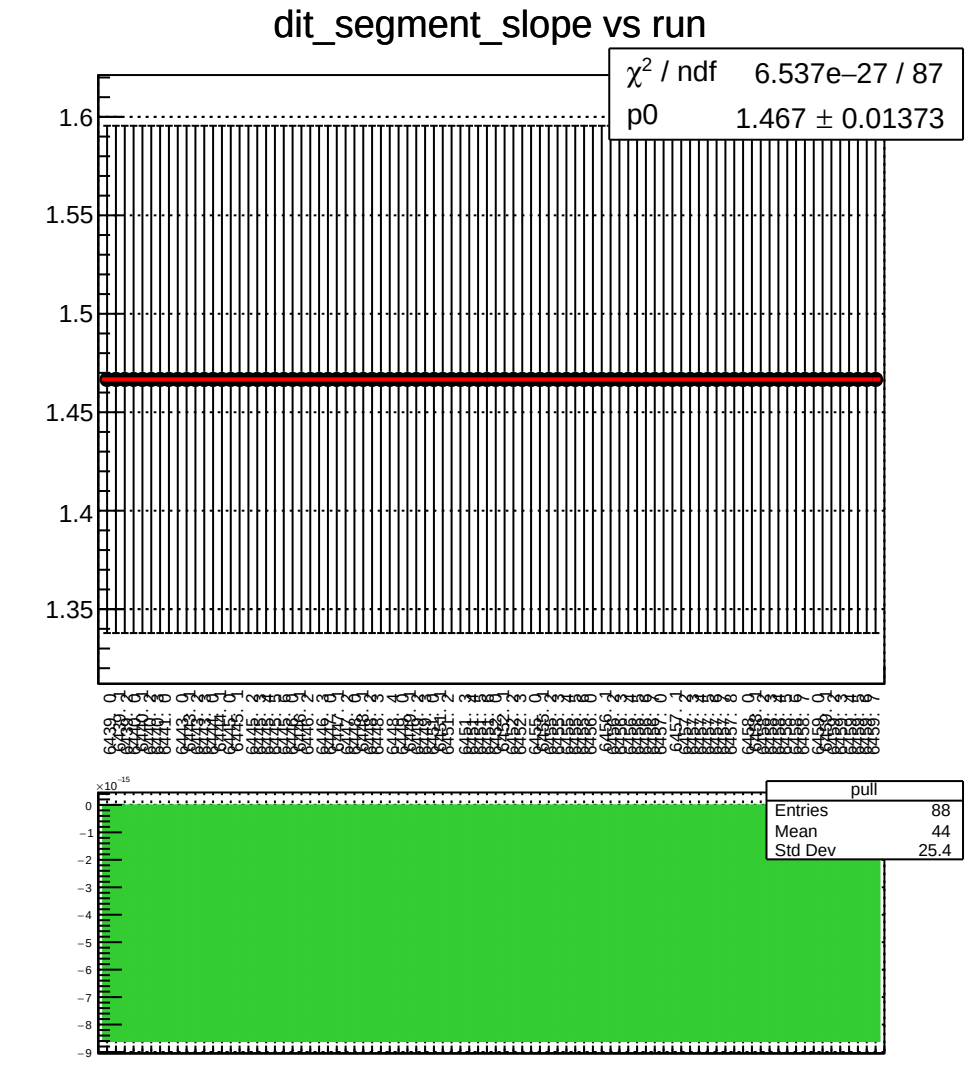
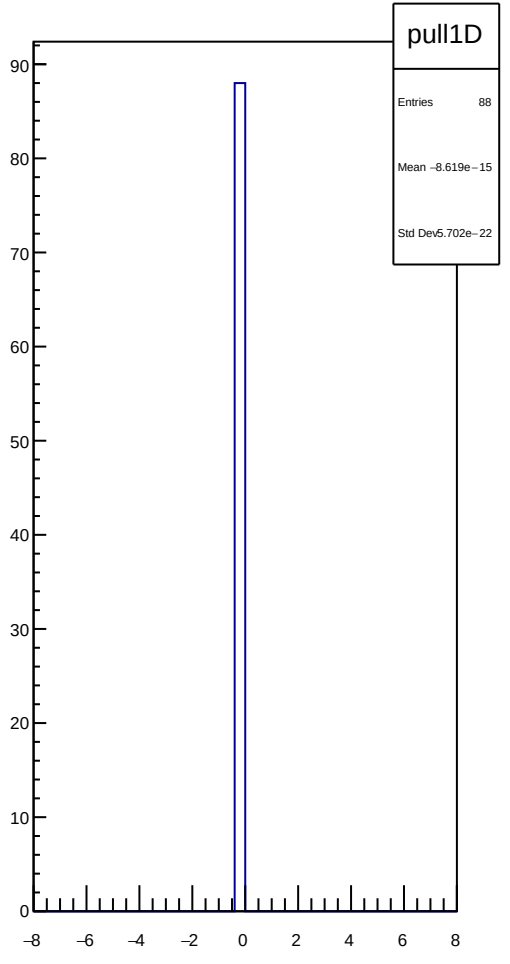
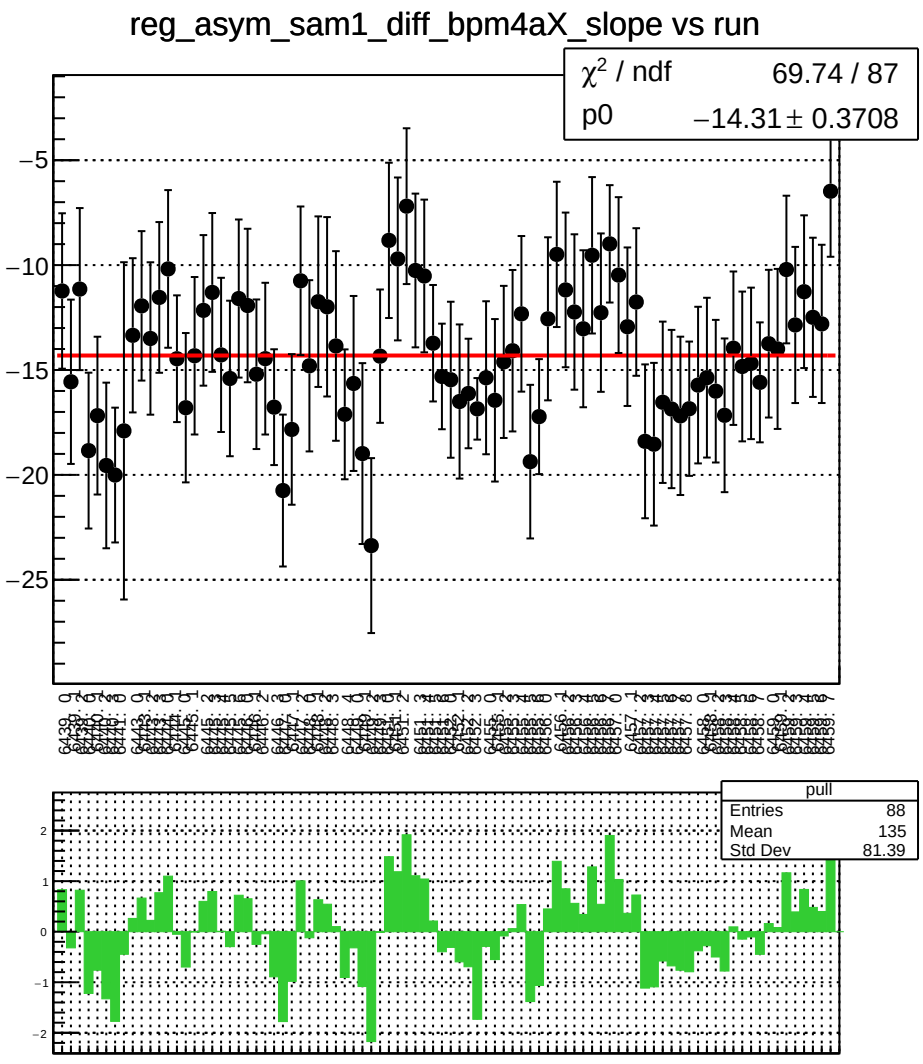
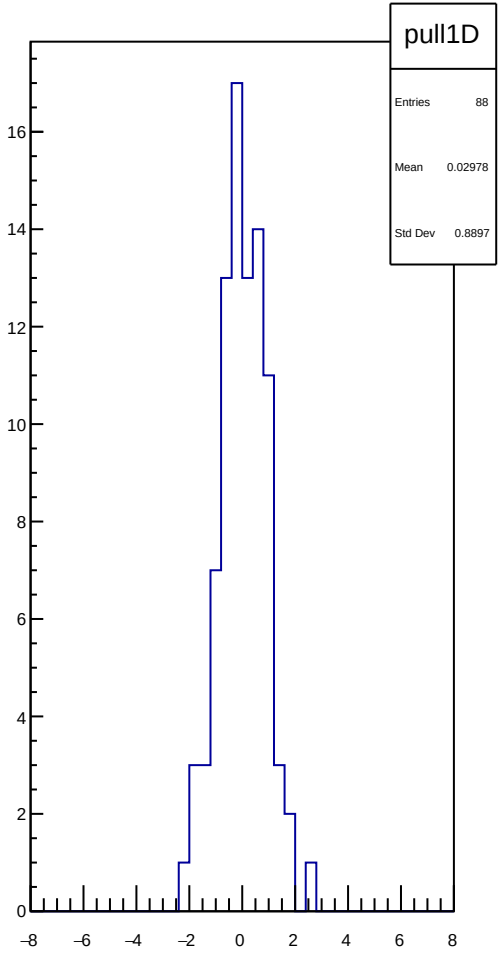
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

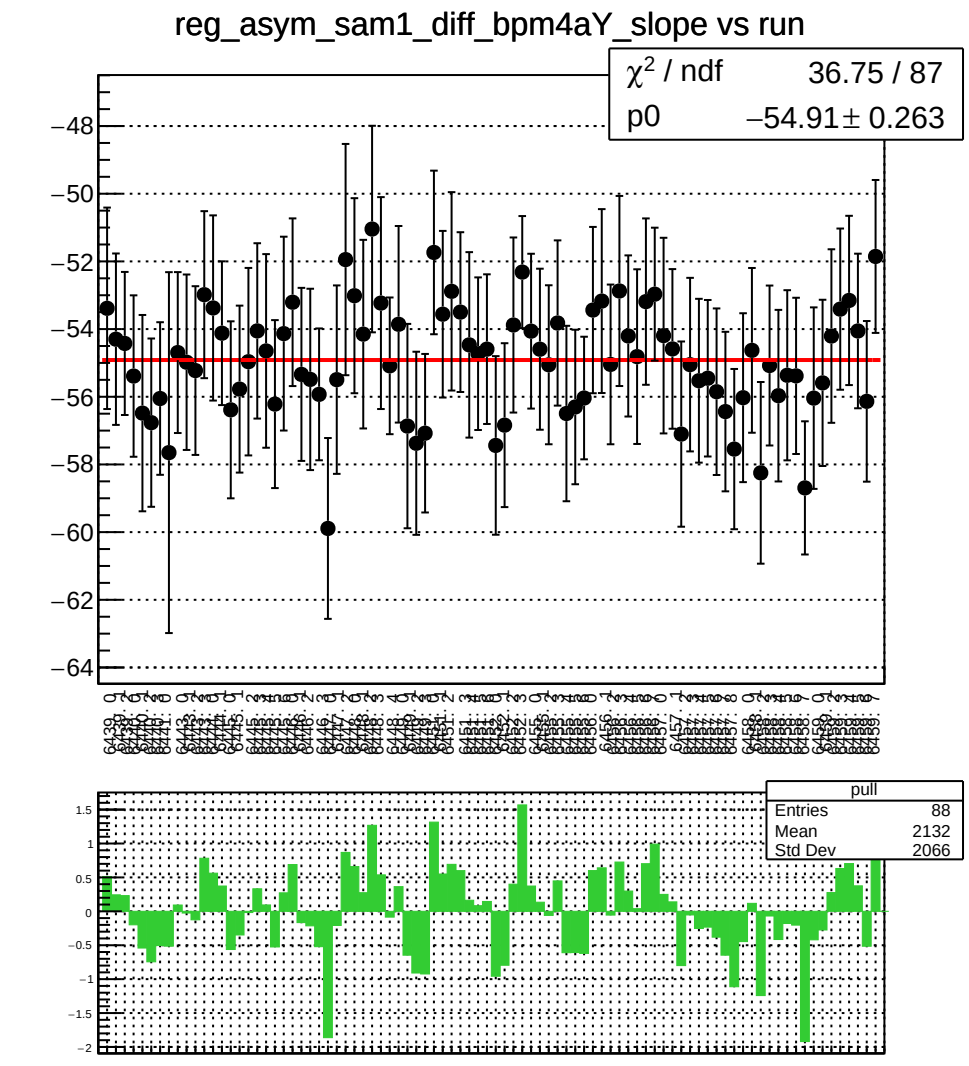

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

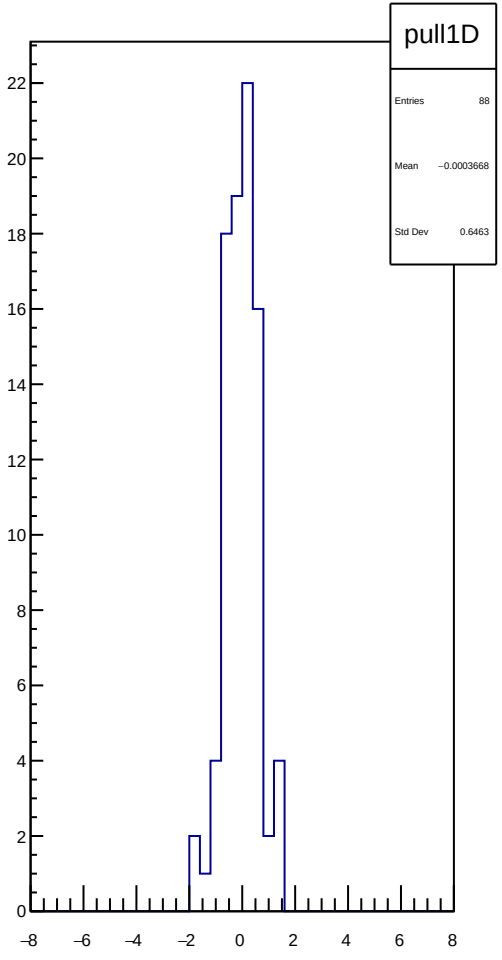

dit_segment_slope vs run
χ² / ndf 6.537e−27 / 87
p0 1.467 ± 0.01373
1.6
1.55
1.5
1.45
1.4
1.35
pull
Entries 88
Mean 44
Std Dev 25.4
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
−7
−8
−9

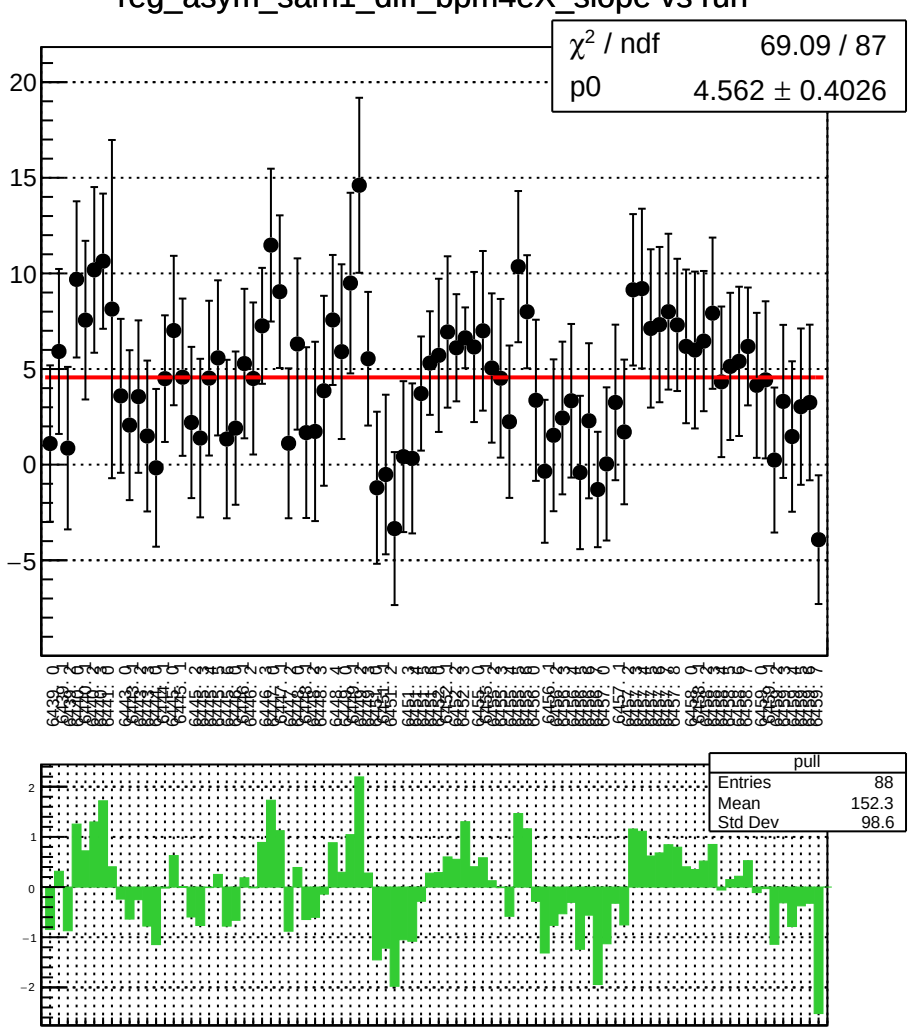

pull1D
Entries 88
Mean −8.619e−15
Std Dev 5.702e−22
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

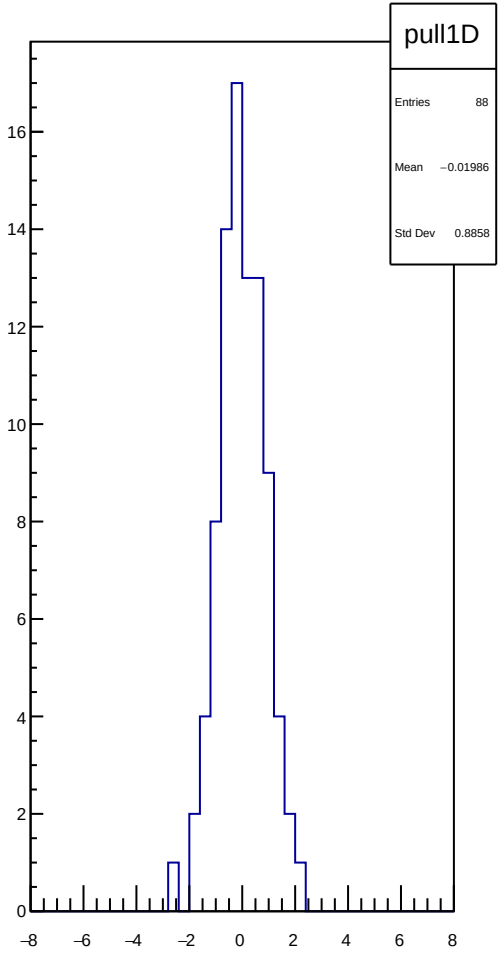

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 69.74 / 87
p0 −14.31 ± 0.3708
−5
−10
−15
−20
−25
pull
Entries 88
Mean 135
Std Dev 81.39
2
1
0
−1
−2

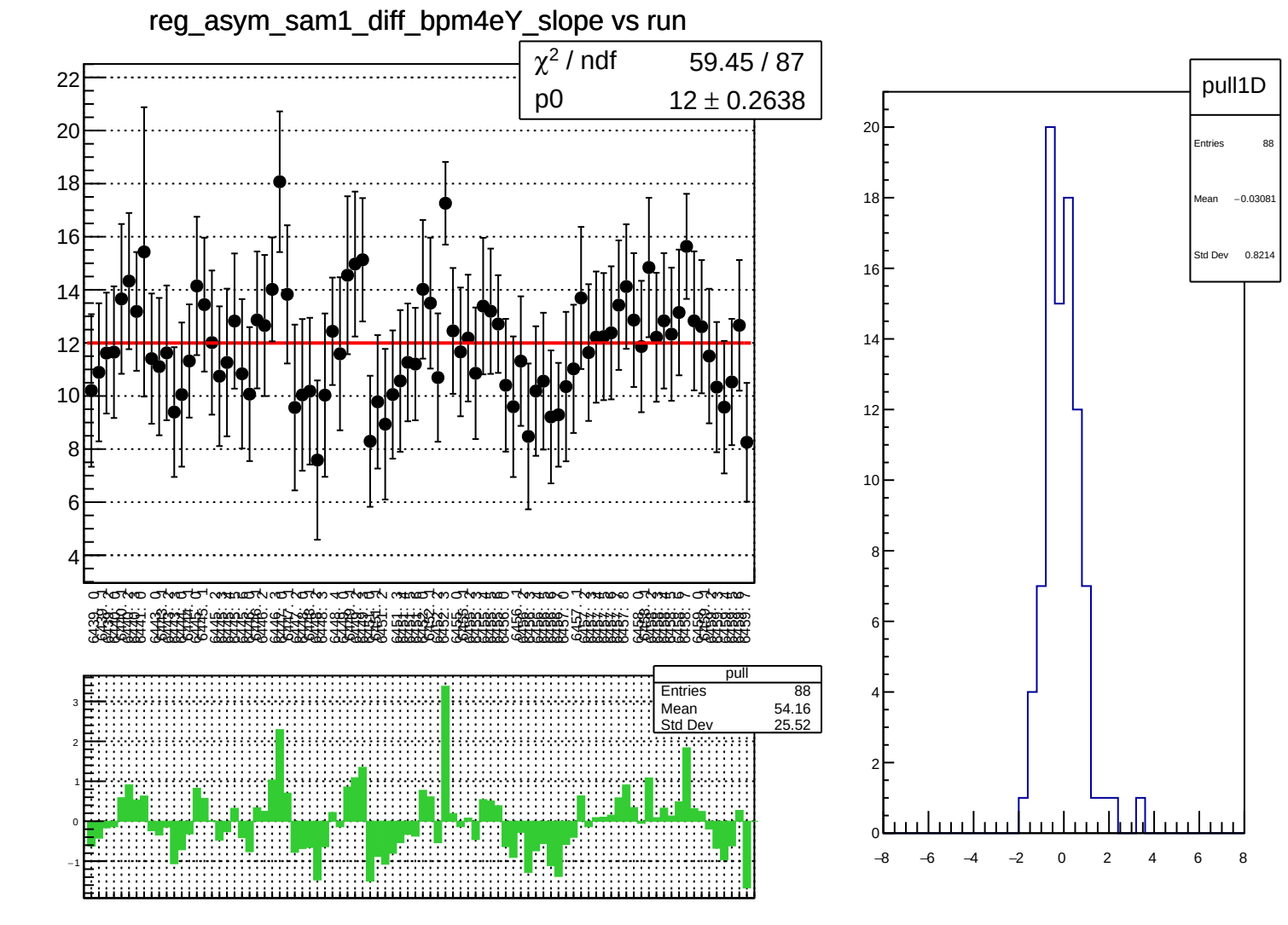

pull1D
Entries 88
Mean 0.02978
Std Dev 0.8897
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

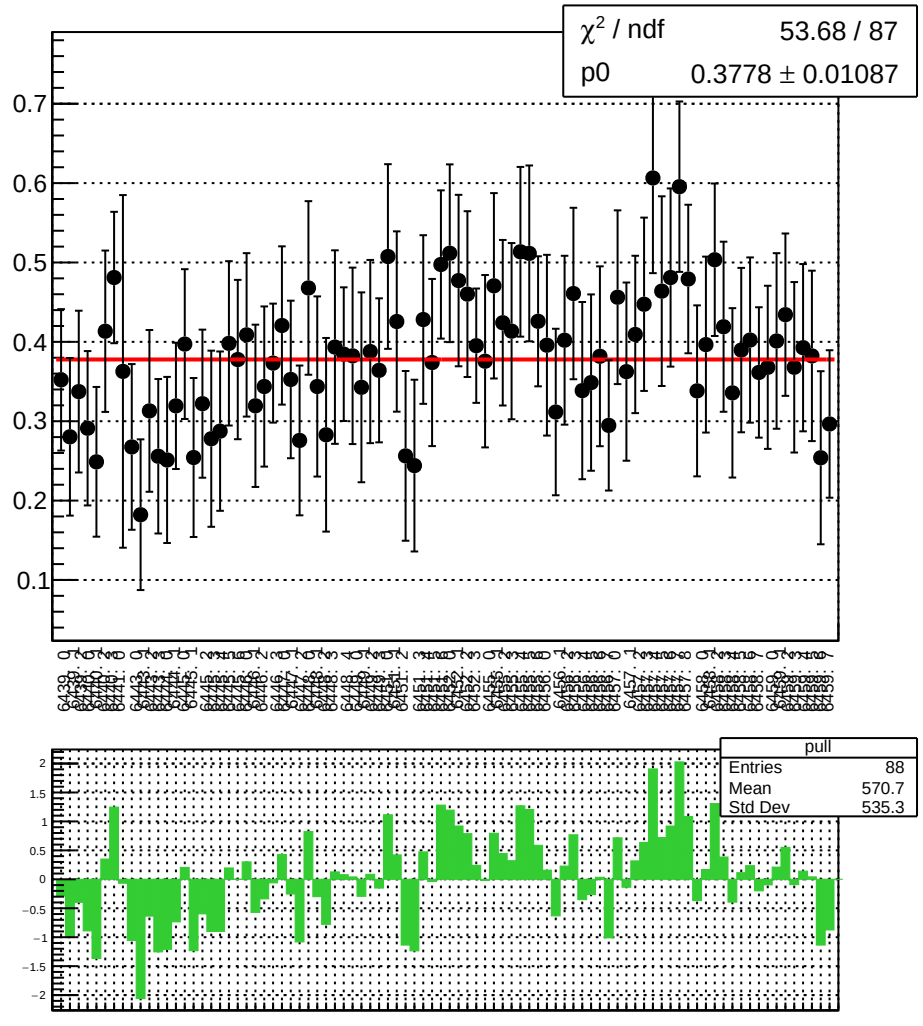

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 36.75 / 87
p0 −54.91 ± 0.263
pull
Entries 88
Mean 2132
Std Dev 2066

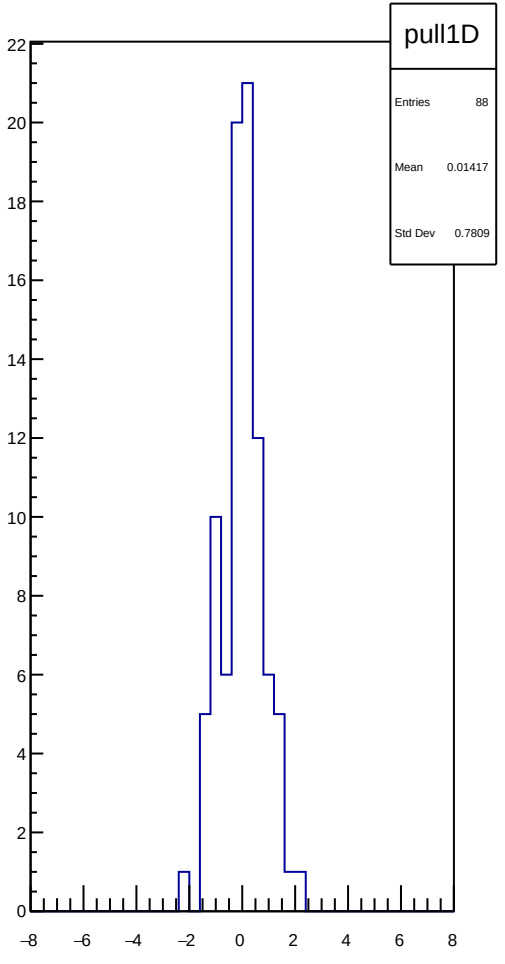

pull1D
Entries 88
Mean −0.0003668
Std Dev 0.6463

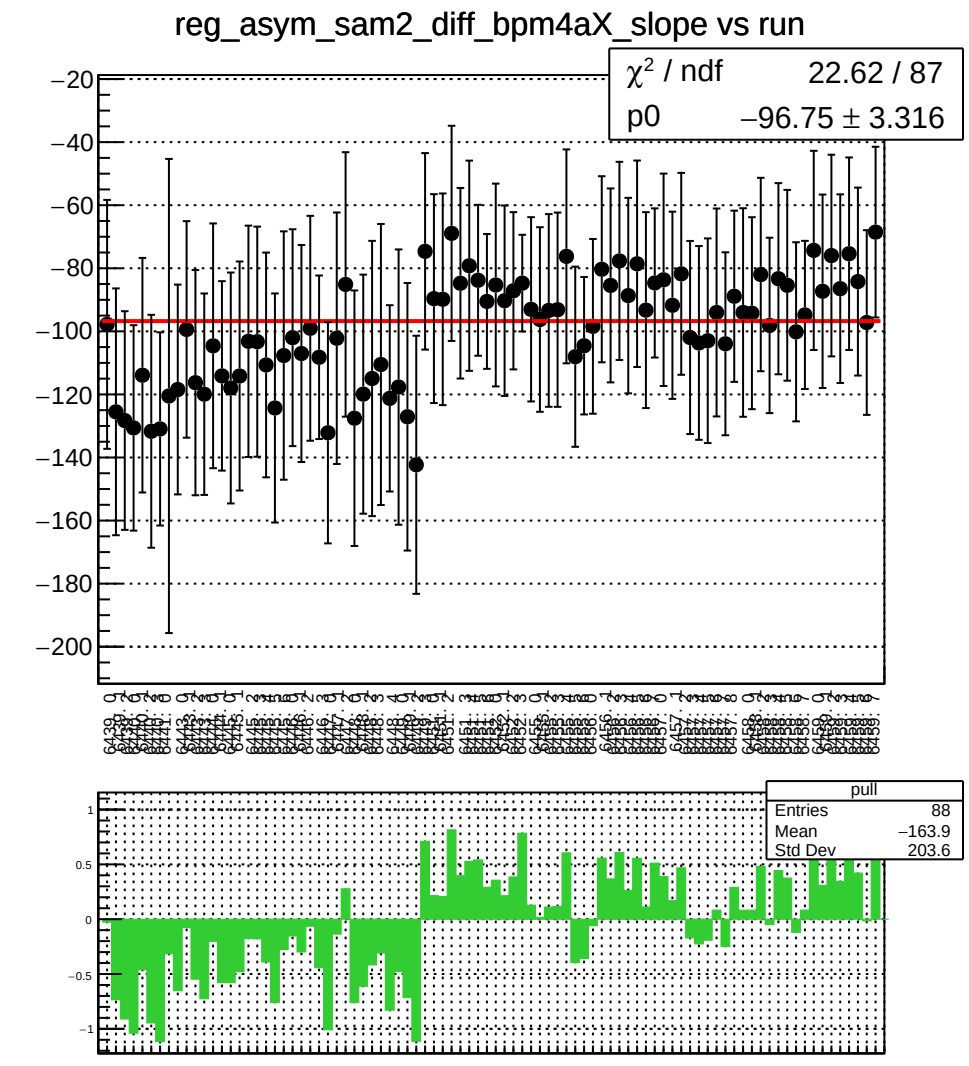

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 69.09 / 87
p0 4.562 ± 0.4026
pull
Entries 88
Mean 152.3
Std Dev 98.6

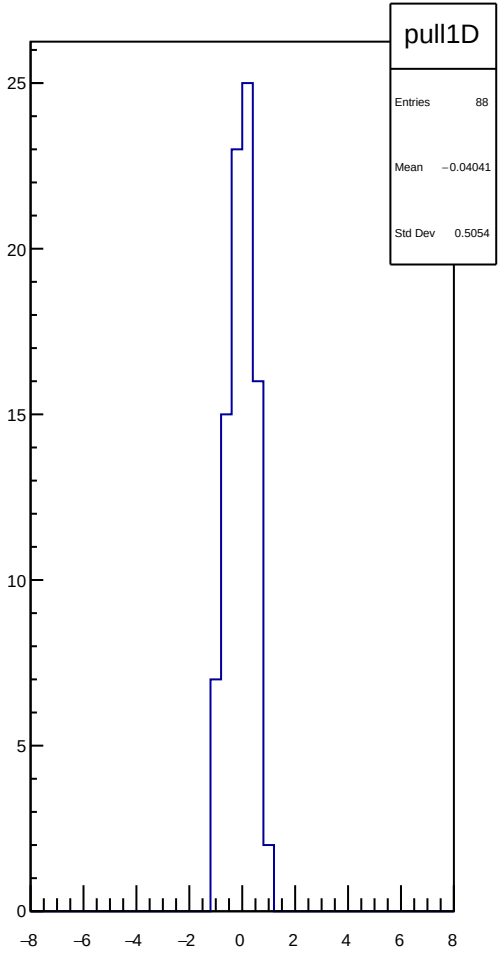

pull1D
Entries 88
Mean −0.01986
Std Dev 0.8858

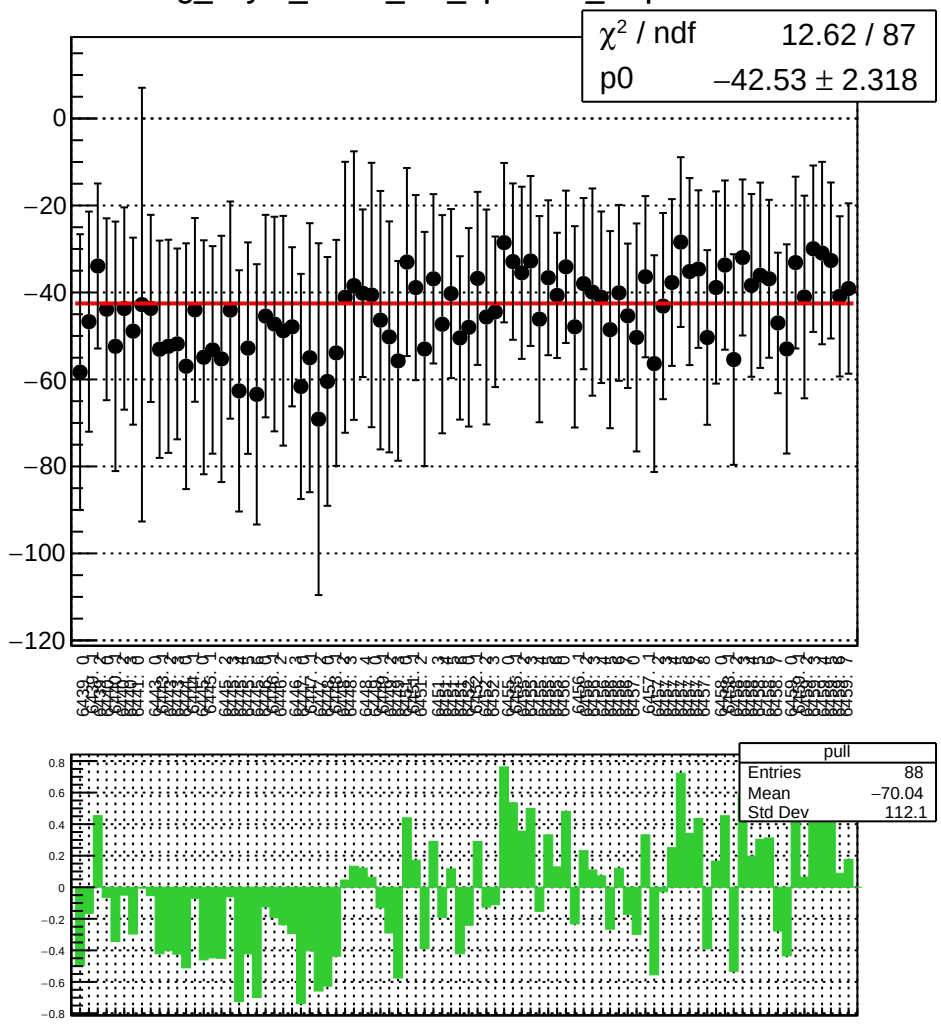

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 59.45 / 87
p0 12 ± 0.2638
pull
Entries 88
Mean 54.16
Std Dev 25.52
pull1D
Entries 88
Mean −0.03081
Std Dev 0.8214

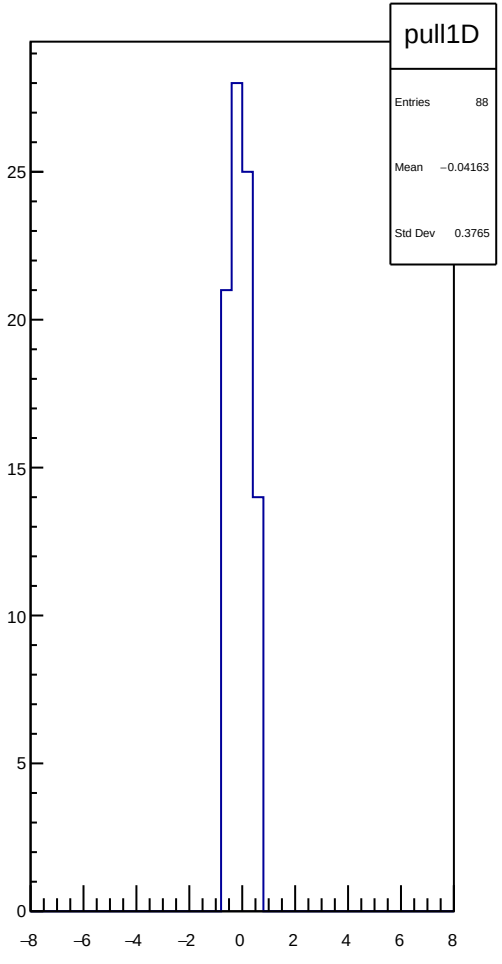

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 53.68 / 87
p0 0.3778 ± 0.01087
pull
Entries 88
Mean 570.7
Std Dev 535.3

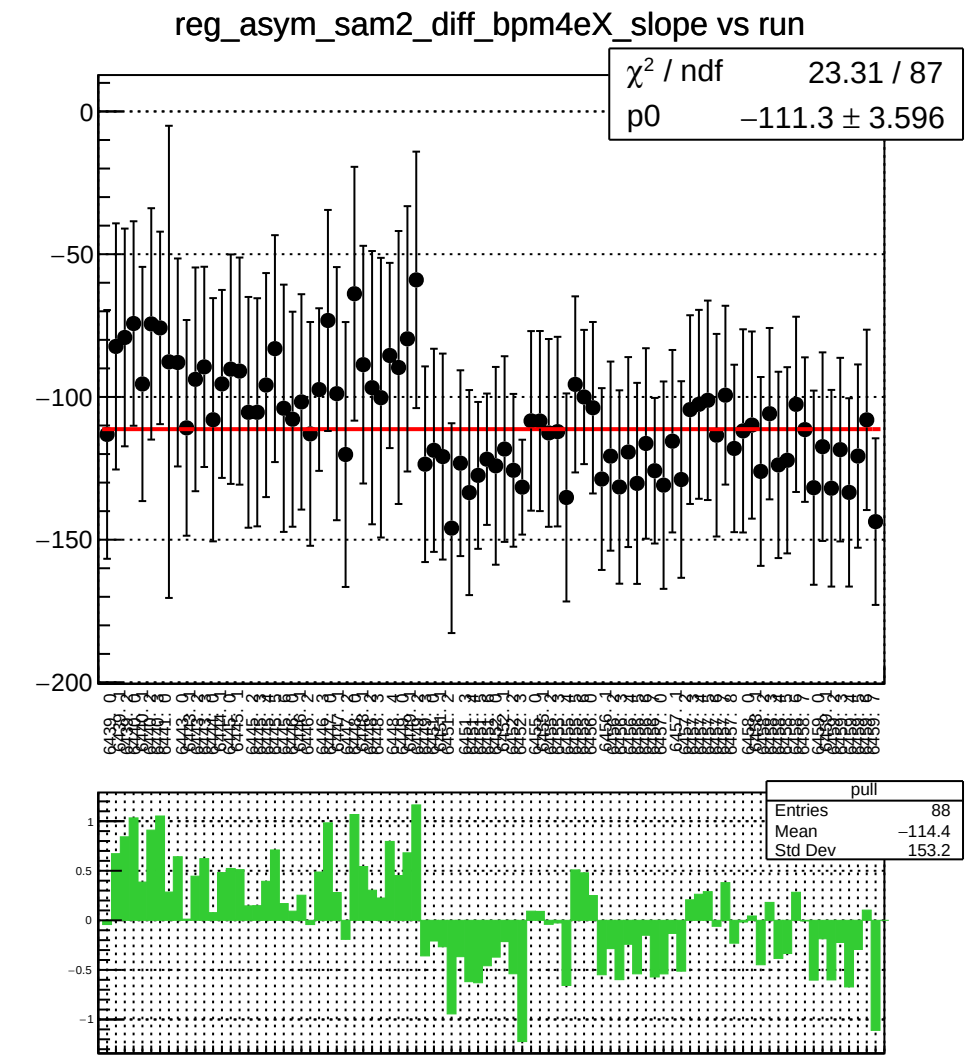

pull1D
Entries 88
Mean 0.01417
Std Dev 0.7809

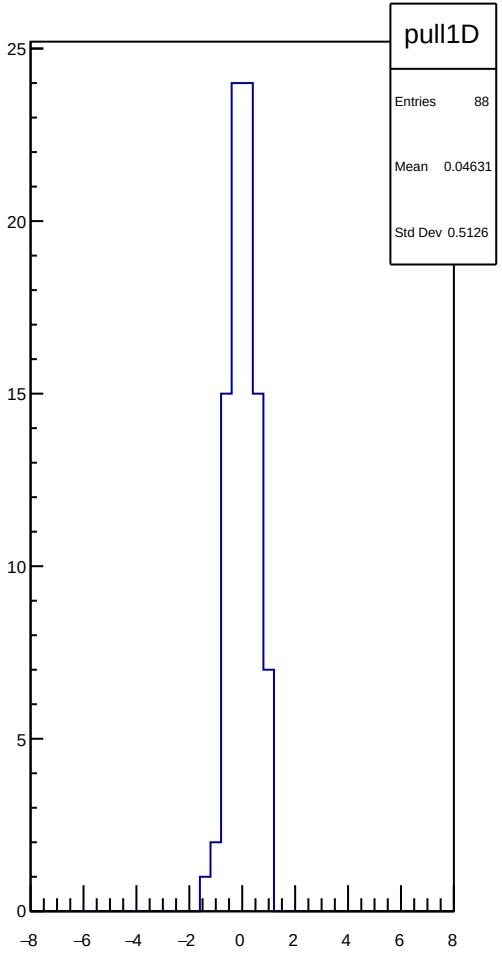

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 22.62 / 87
p0 −96.75 ± 3.316
pull
Entries 88
Mean −163.9
Std Dev 203.6

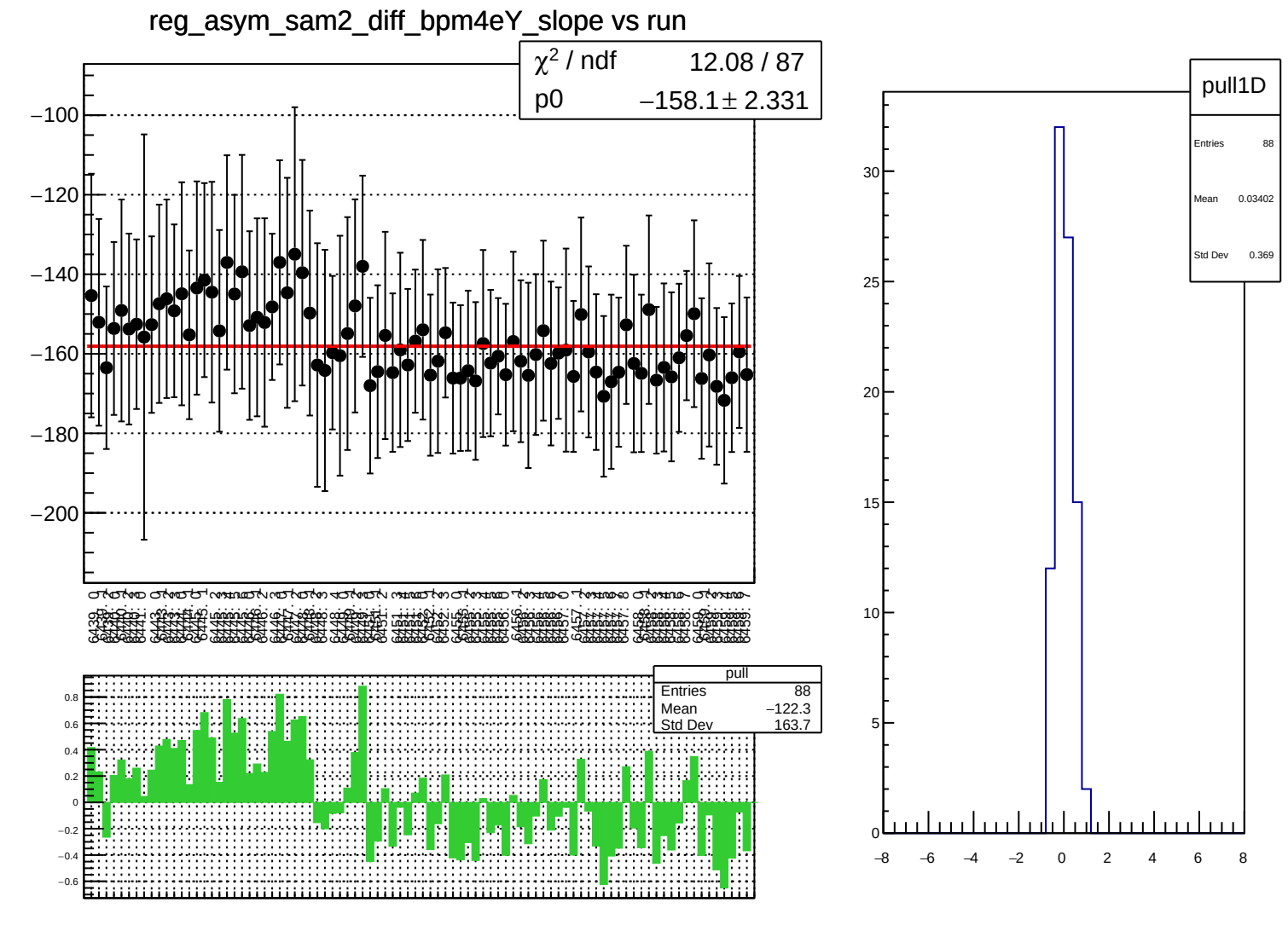

pull1D
Entries 88
Mean −0.04041
Std Dev 0.5054

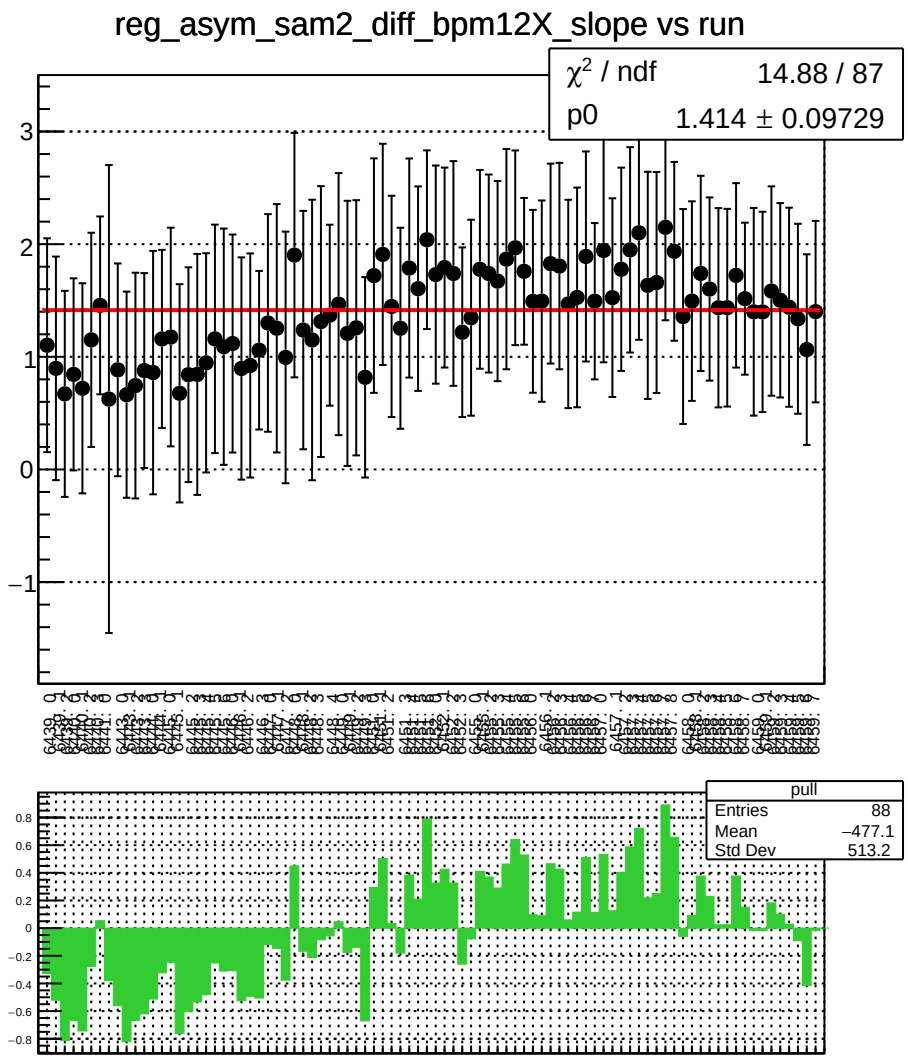

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 12.62 / 87
p0 −42.53 ± 2.318
pull
Entries 88
Mean −70.04
Std Dev 112.1

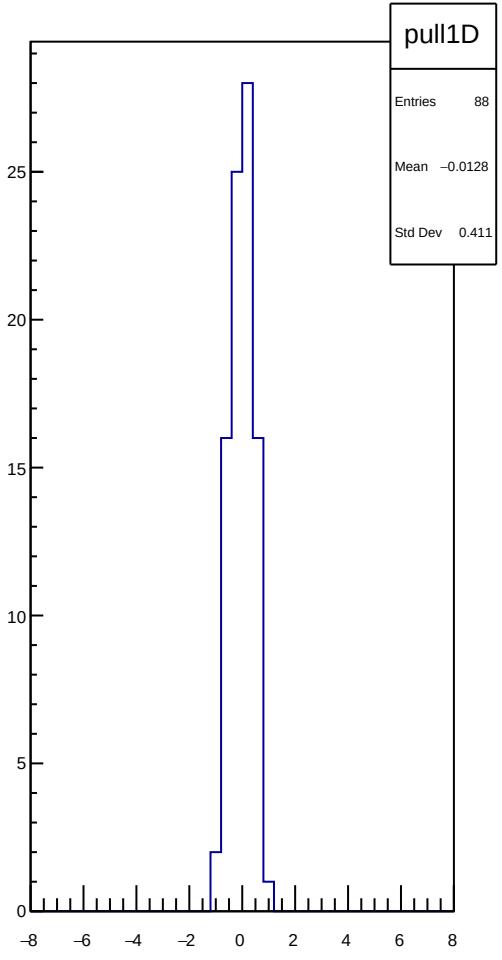

pull1D
Entries 88
Mean −0.04163
Std Dev 0.3765

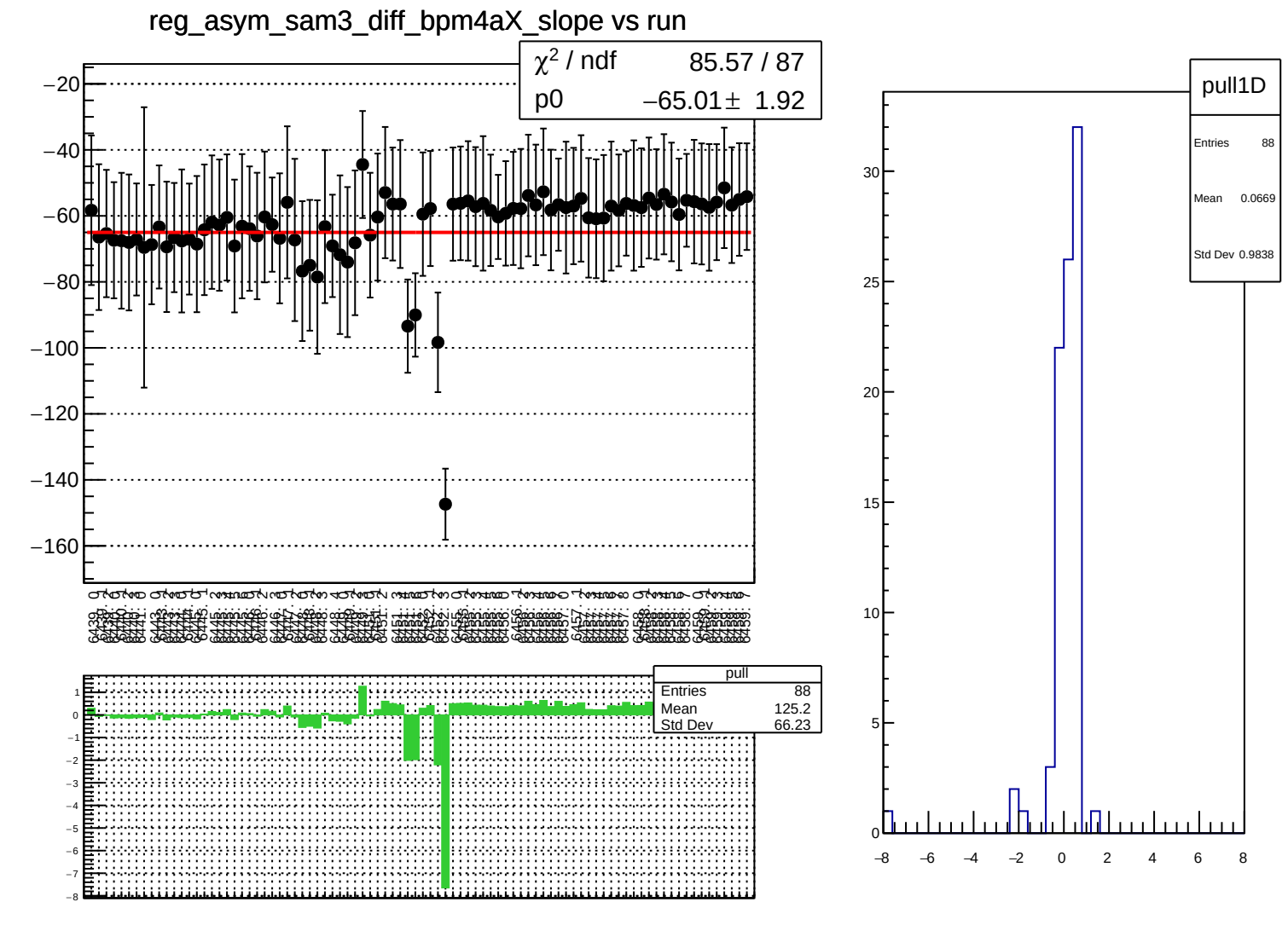

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 23.31 / 87
p0 −111.3 ± 3.596
pull
Entries 88
Mean −114.4
Std Dev 153.2

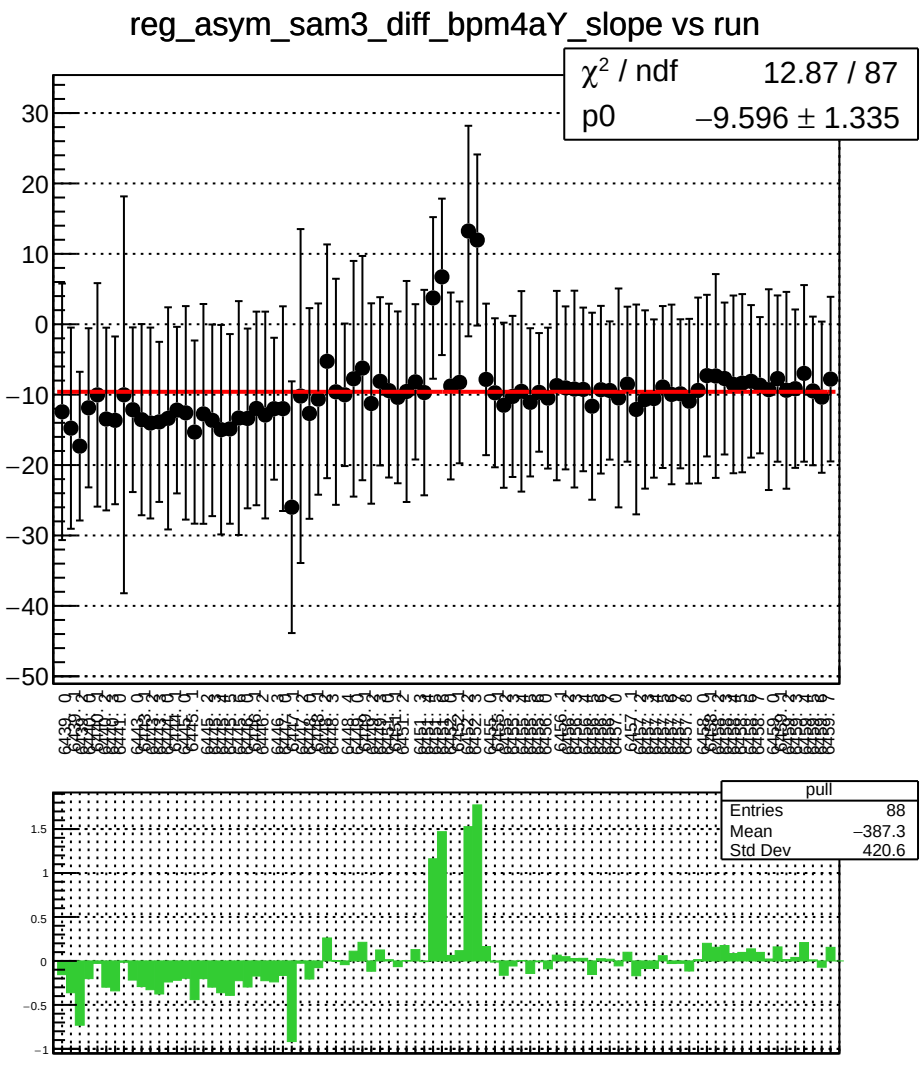

pull1D
Entries 88
Mean 0.04631
Std Dev 0.5126

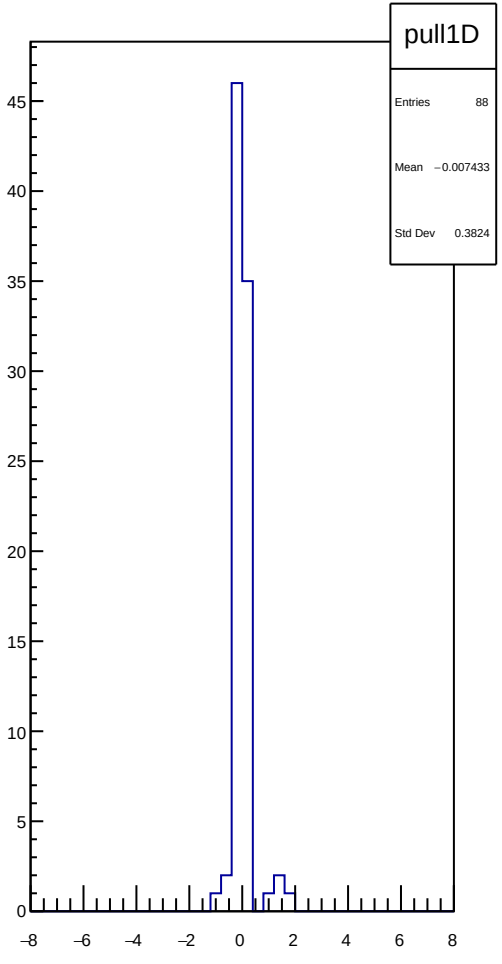

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 12.08 / 87
p0 −158.1 ± 2.331
−100
−120
−140
−160
−180
−200
pull
Entries 88
Mean −122.3
Std Dev 163.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.03402
Std Dev 0.369
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

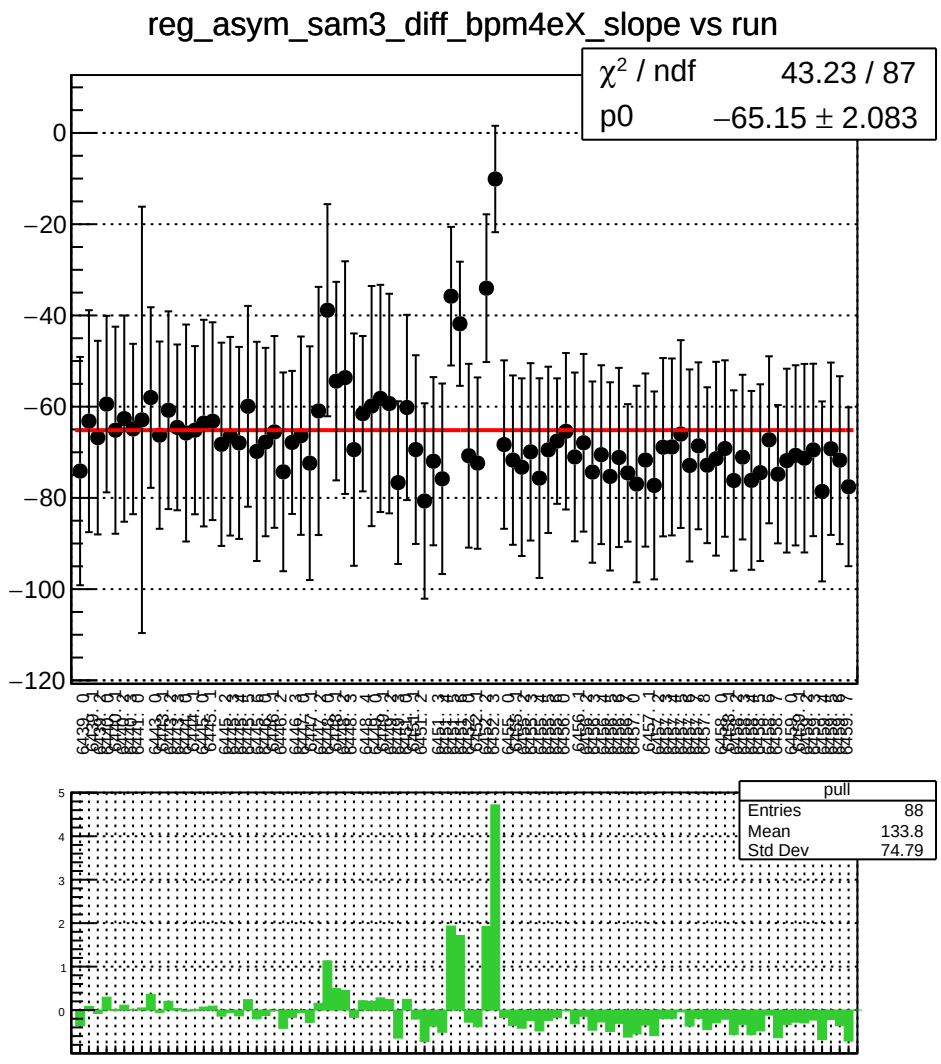

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 14.88 / 87
p0 1.414 ± 0.09729
pull
Entries 88
Mean −477.1
Std Dev 513.2

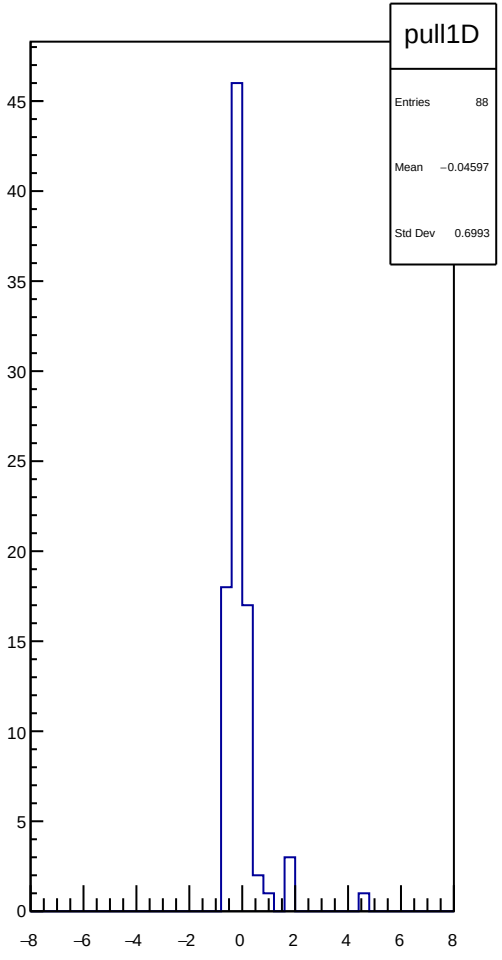

pull1D
Entries 88
Mean −0.0128
Std Dev 0.411

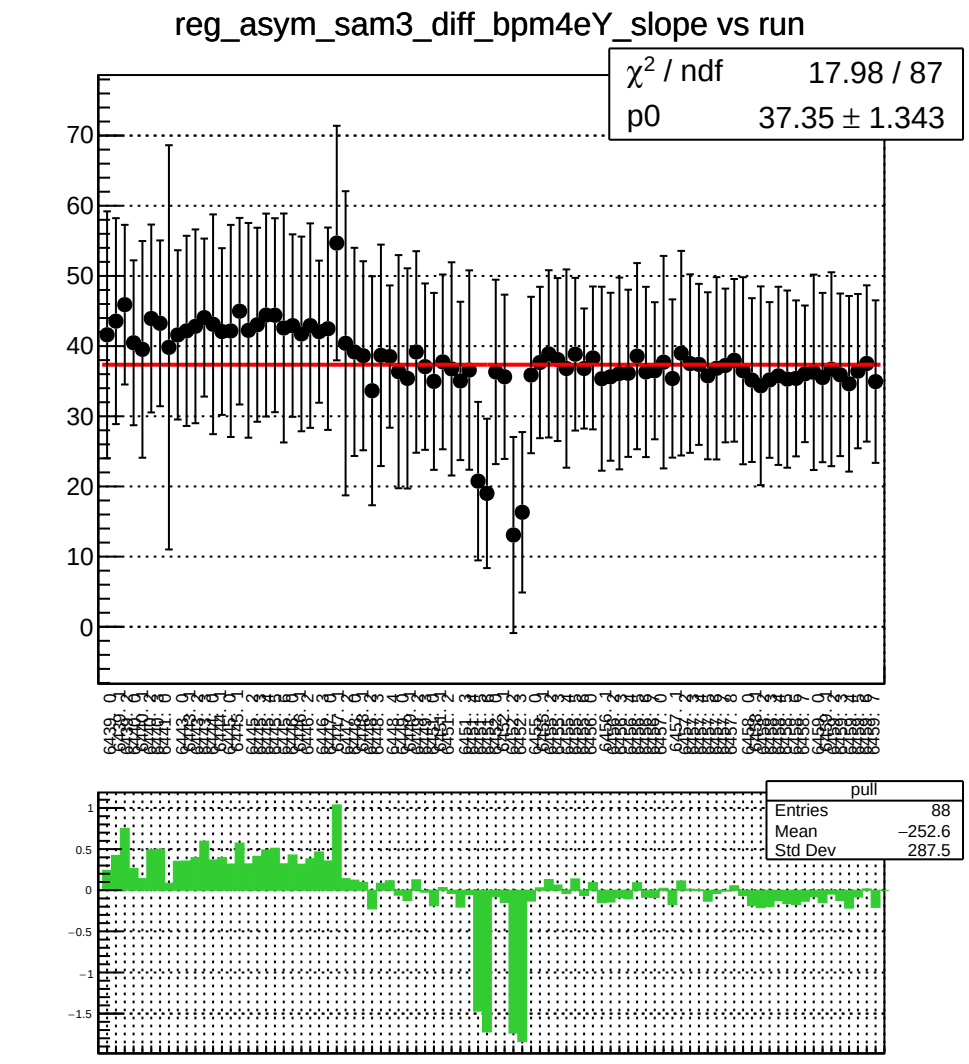

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 85.57 / 87
p0 −65.01 ± 1.92
pull
Entries 88
Mean 125.2
Std Dev 66.23
pull1D
Entries 88
Mean 0.0669
Std Dev 0.9838

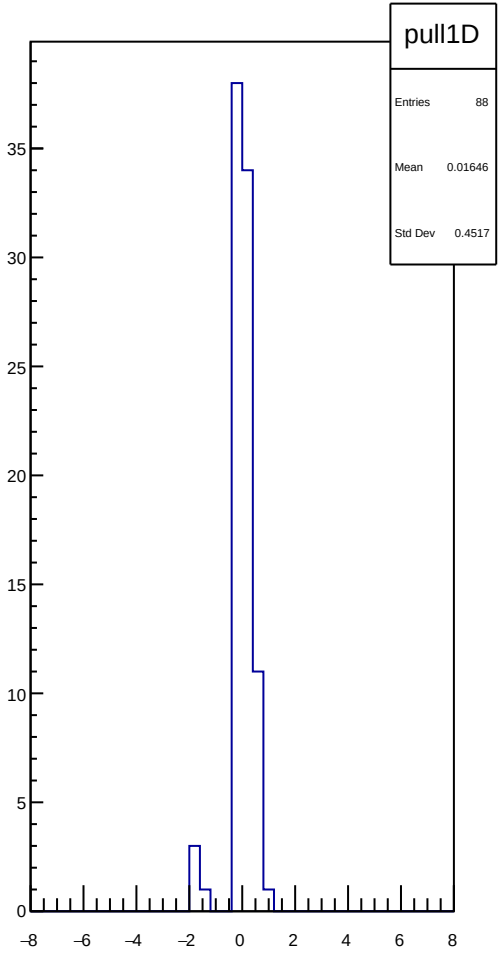

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 12.87 / 87
p0 −9.596 ± 1.335
pull
Entries 88
Mean −387.3
Std Dev 420.6

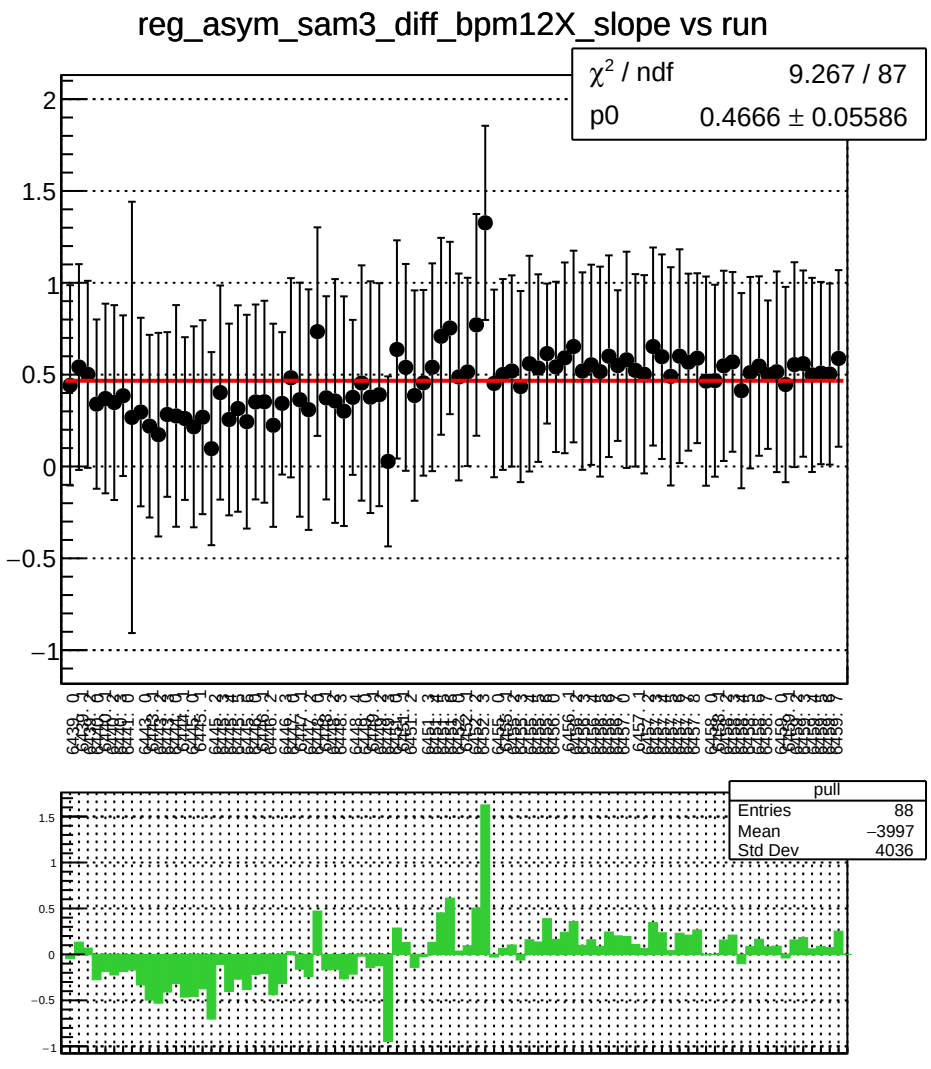

pull1D
Entries 88
Mean −0.007433
Std Dev 0.3824

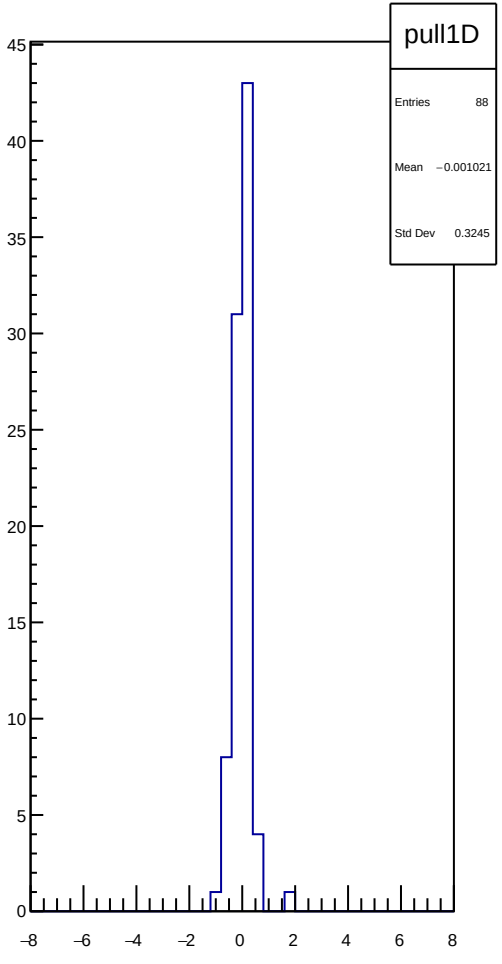

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 43.23 / 87
p0 −65.15 ± 2.083
pull
Entries 88
Mean 133.8
Std Dev 74.79

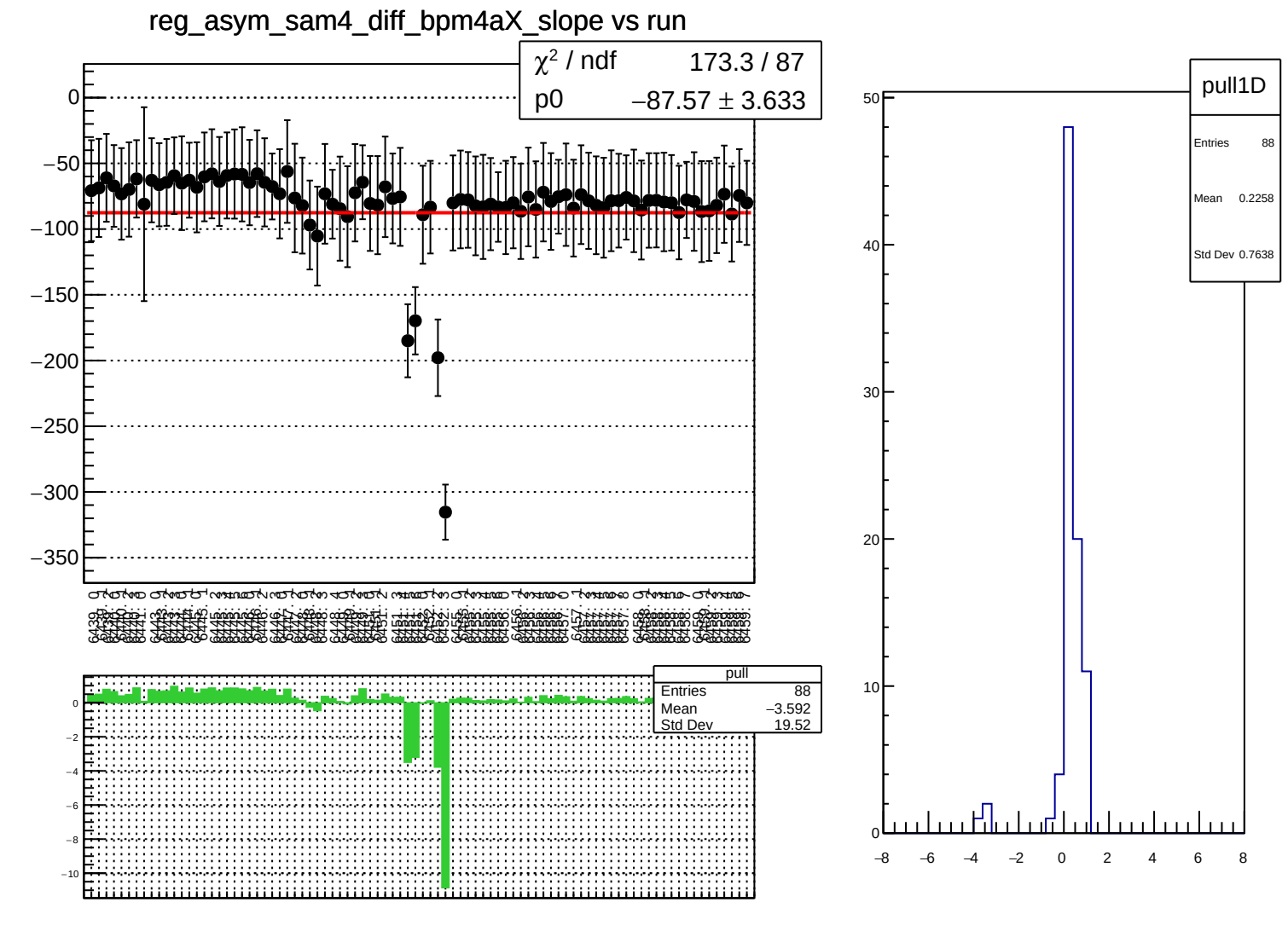

pull1D
Entries 88
Mean −0.04597
Std Dev 0.6993

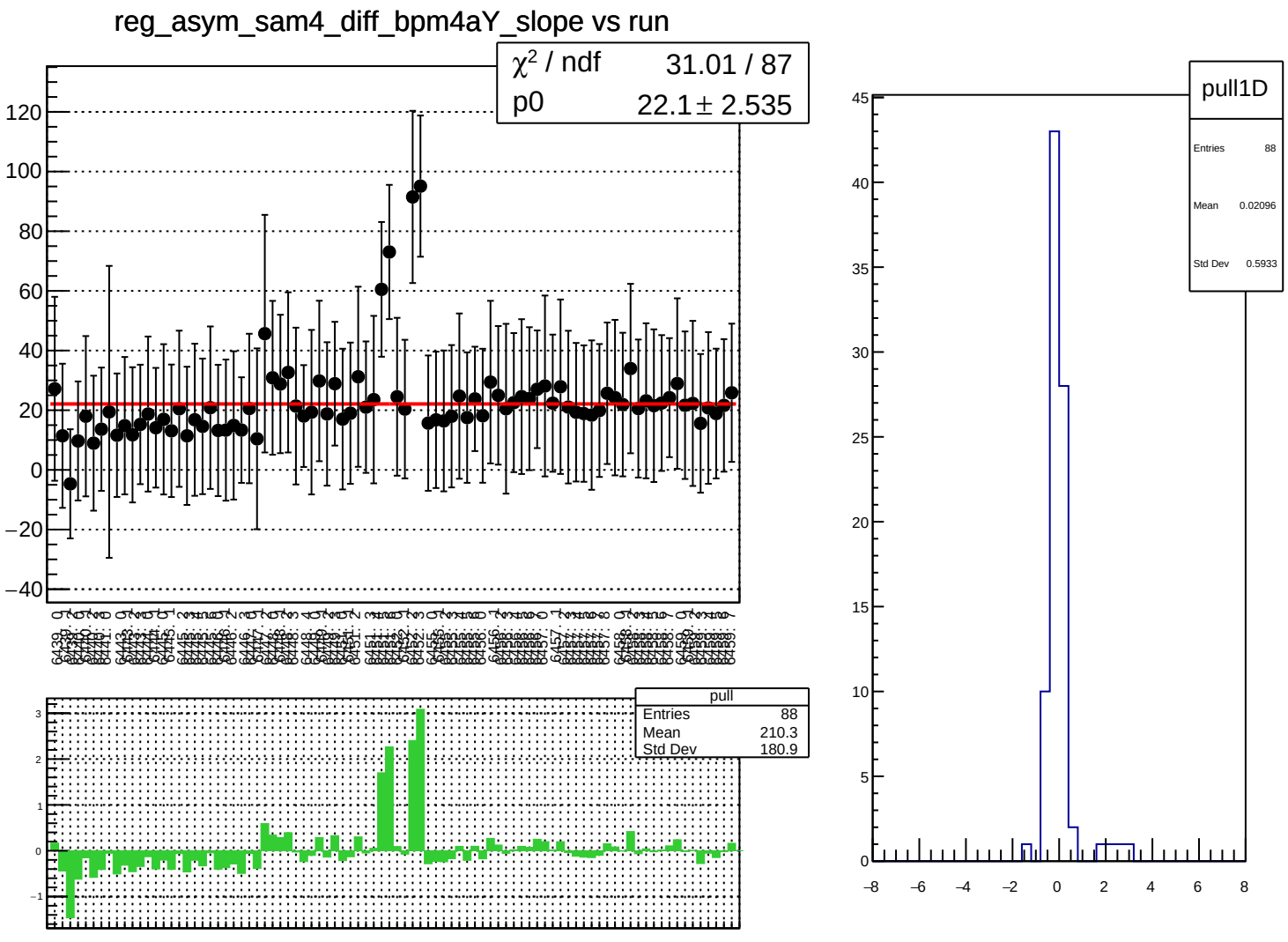

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 17.98 / 87
p0 37.35 ± 1.343
pull
Entries 88
Mean −252.6
Std Dev 287.5

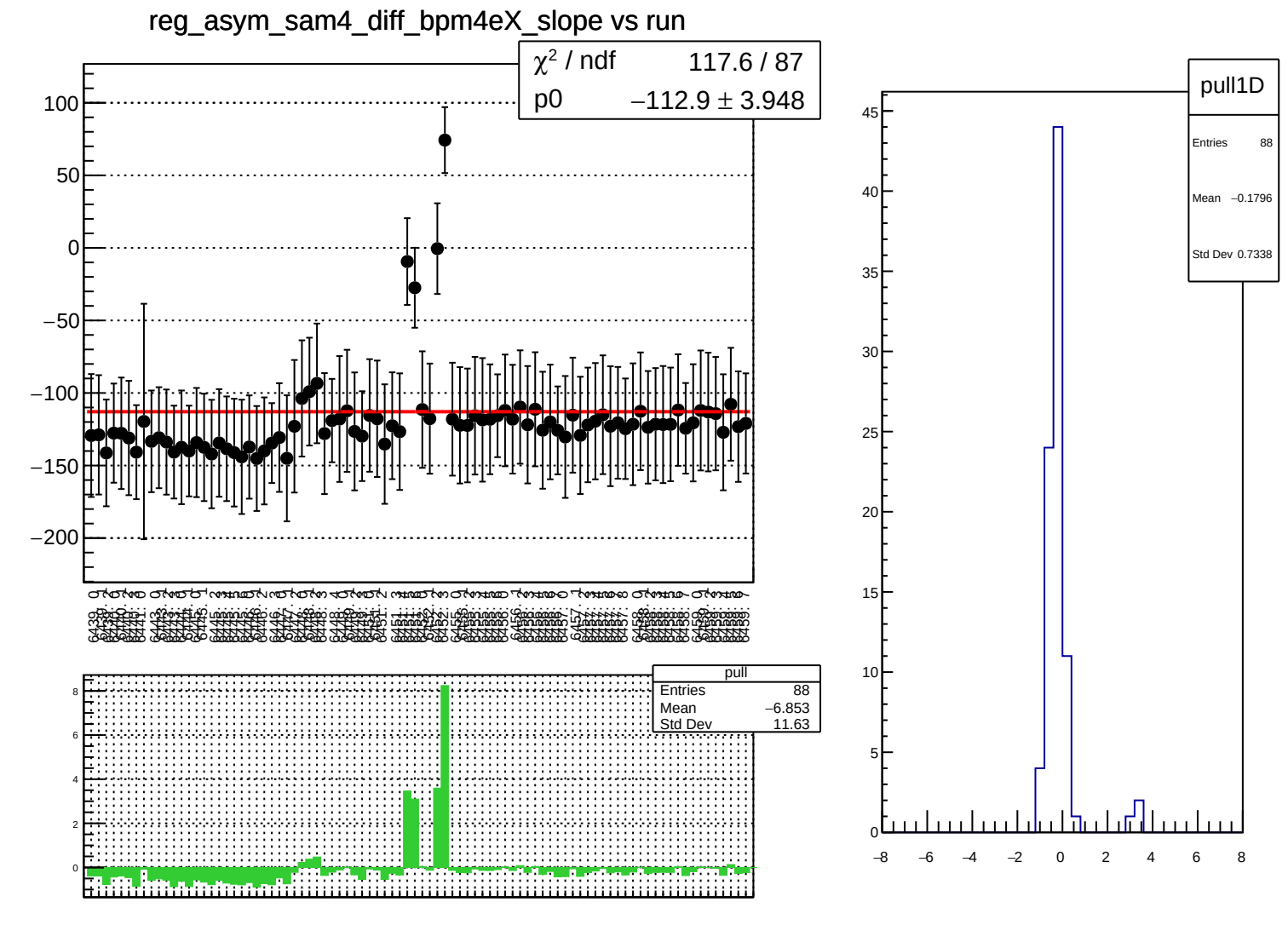

pull1D
Entries 88
Mean 0.01646
Std Dev 0.4517

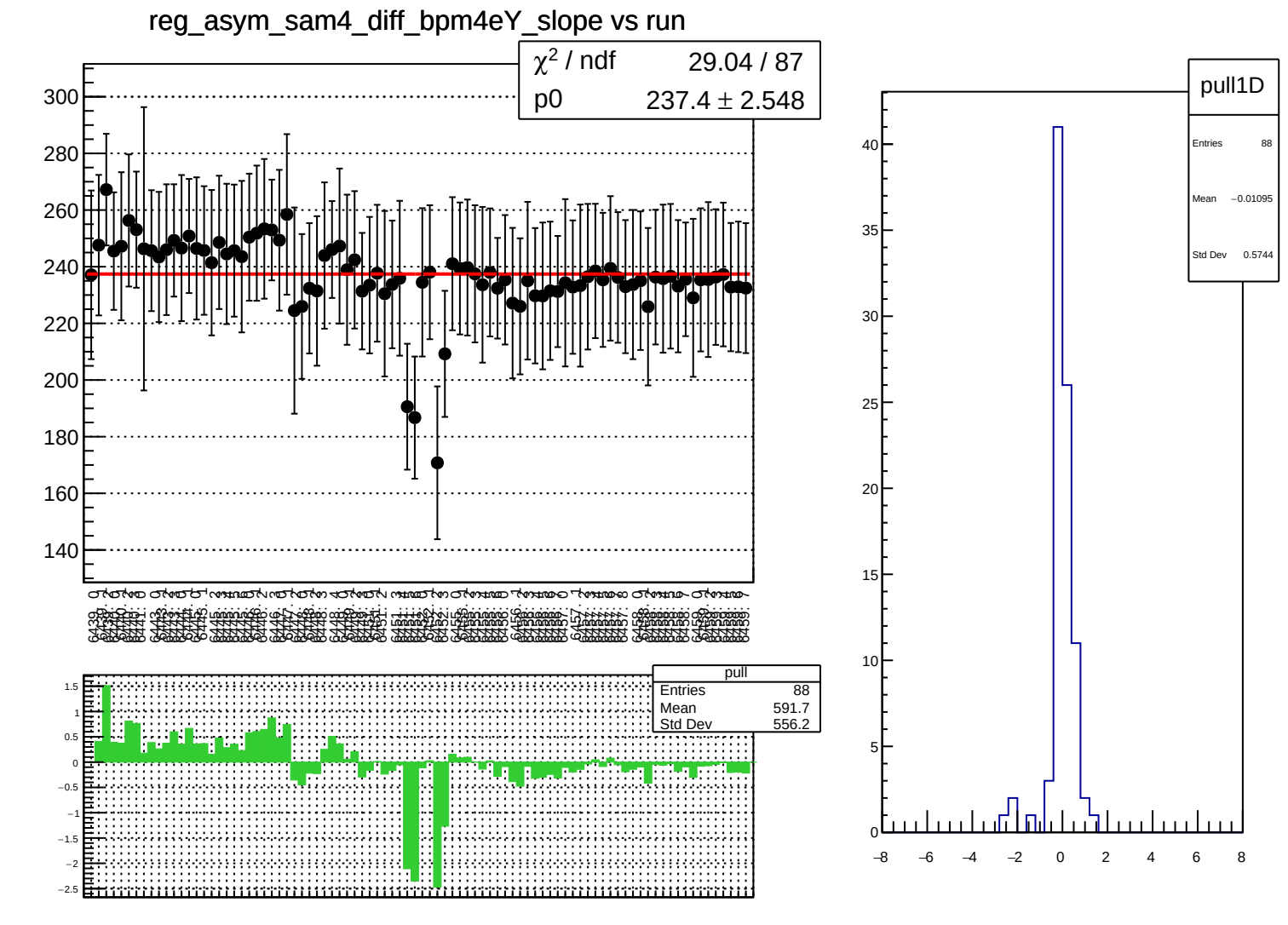

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 9.267 / 87
p0 0.4666 ± 0.05586
pull
Entries 88
Mean −3997
Std Dev 4036

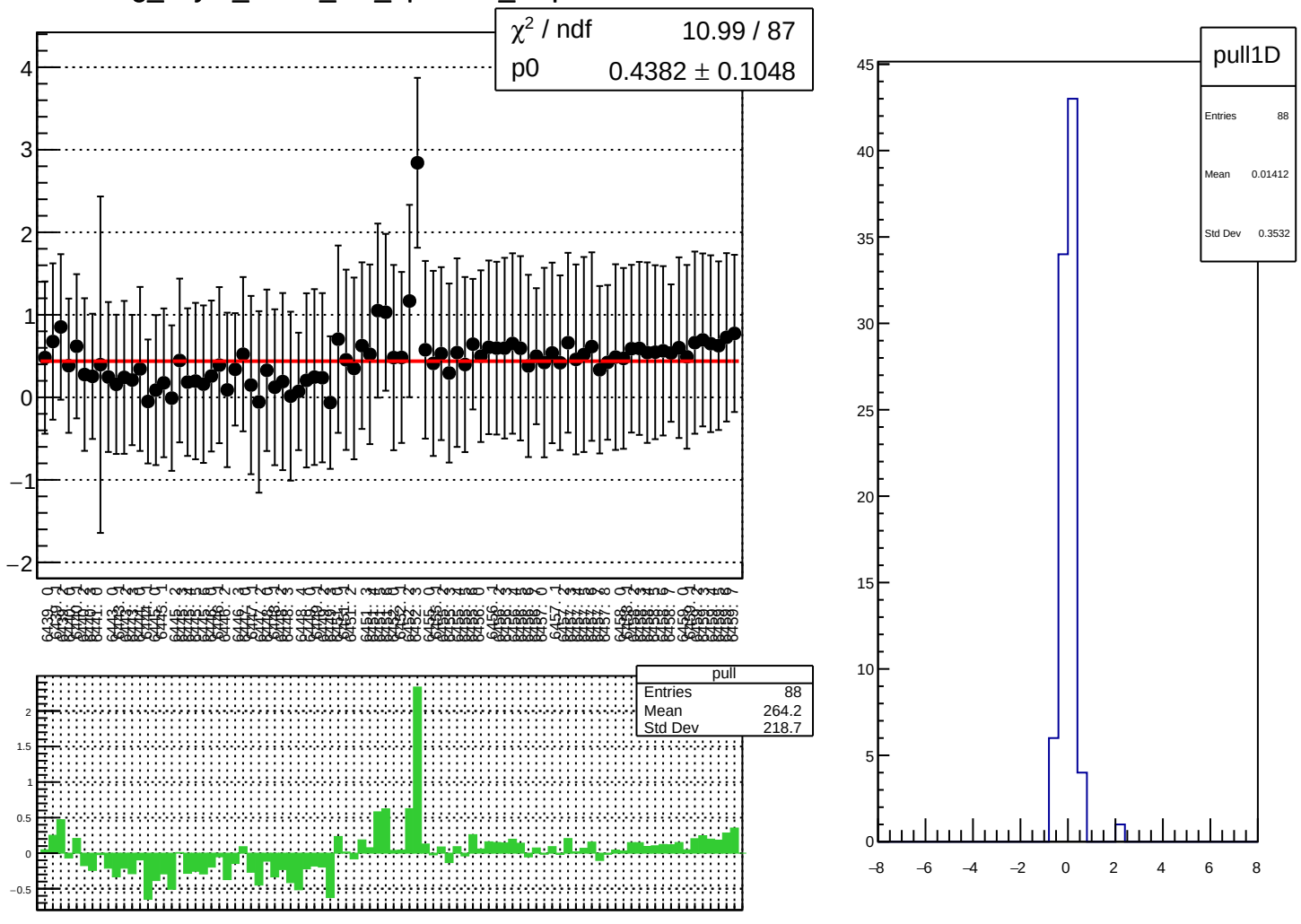

pull1D
Entries 88
Mean −0.001021
Std Dev 0.3245

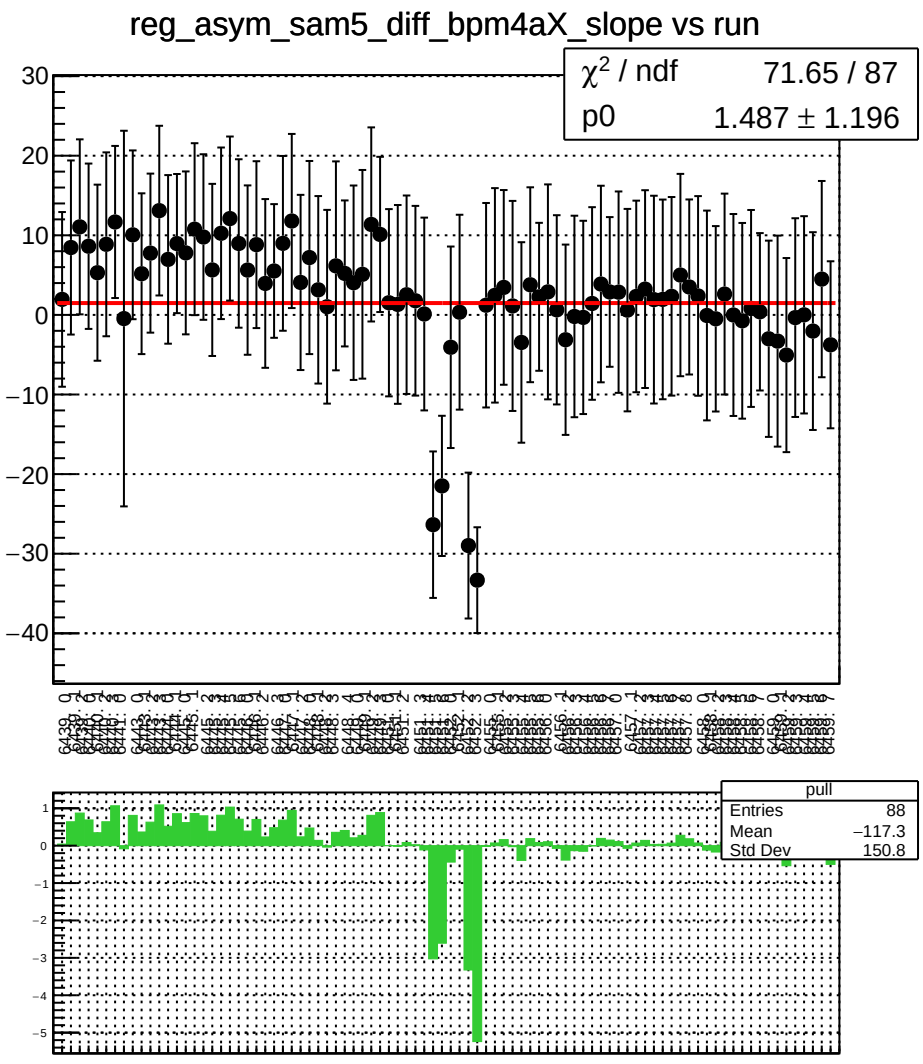

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 173.3 / 87
p0 −87.57 ± 3.633
pull
Entries 88
Mean −3.592
Std Dev 19.52
pull1D
Entries 88
Mean 0.2258
Std Dev 0.7638

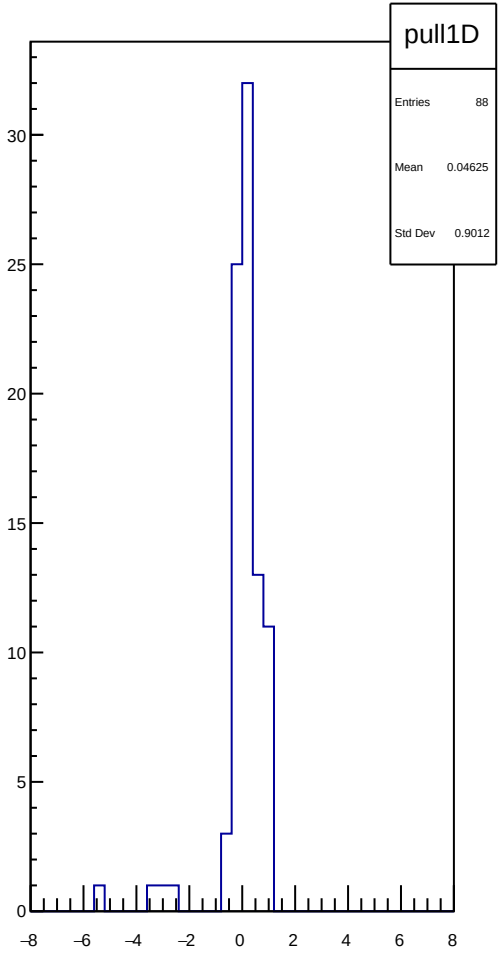

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 31.01 / 87
p0 22.1 ± 2.535
pull
Entries 88
Mean 210.3
Std Dev 180.9
pull1D
Entries 88
Mean 0.02096
Std Dev 0.5933

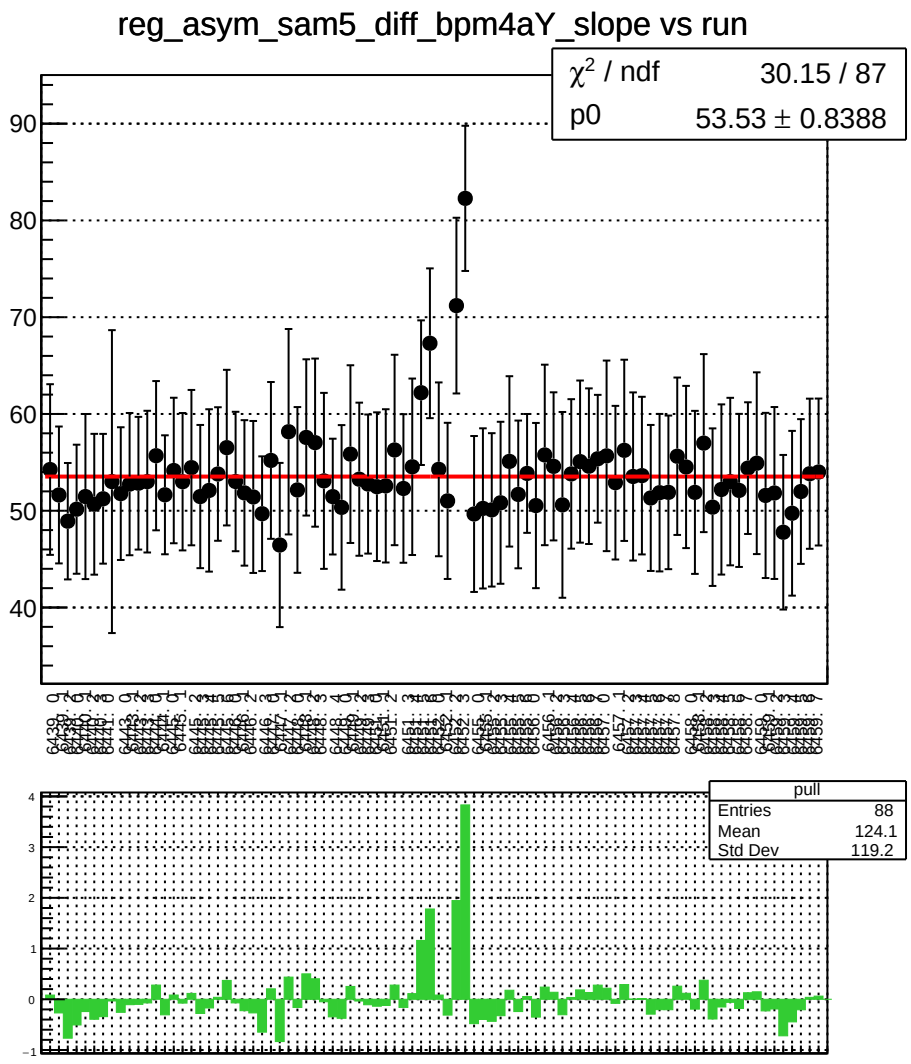

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 117.6 / 87
p0 −112.9 ± 3.948
pull
Entries 88
Mean −6.853
Std Dev 11.63
pull1D
Entries 88
Mean −0.1796
Std Dev 0.7338

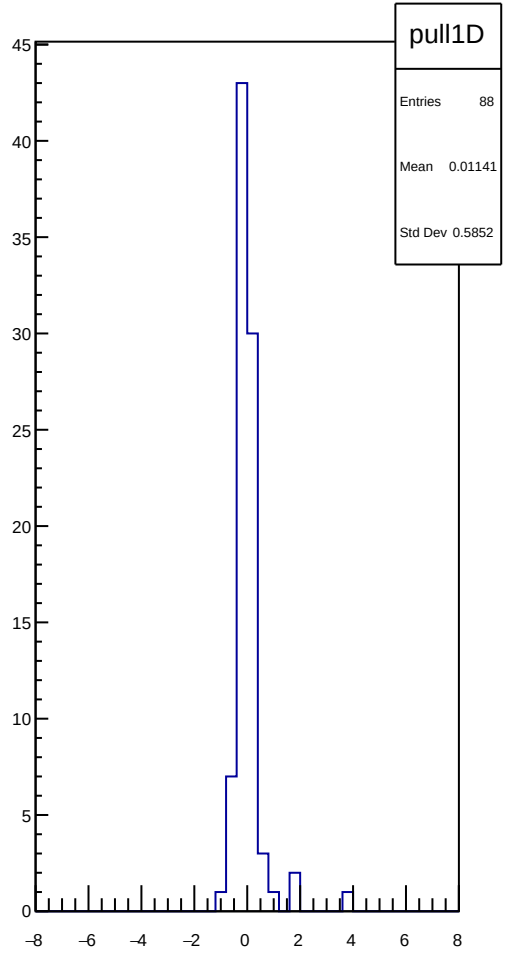

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 29.04 / 87
p0 237.4 ± 2.548
pull
Entries 88
Mean 591.7
Std Dev 556.2
pull1D
Entries 88
Mean −0.01095
Std Dev 0.5744

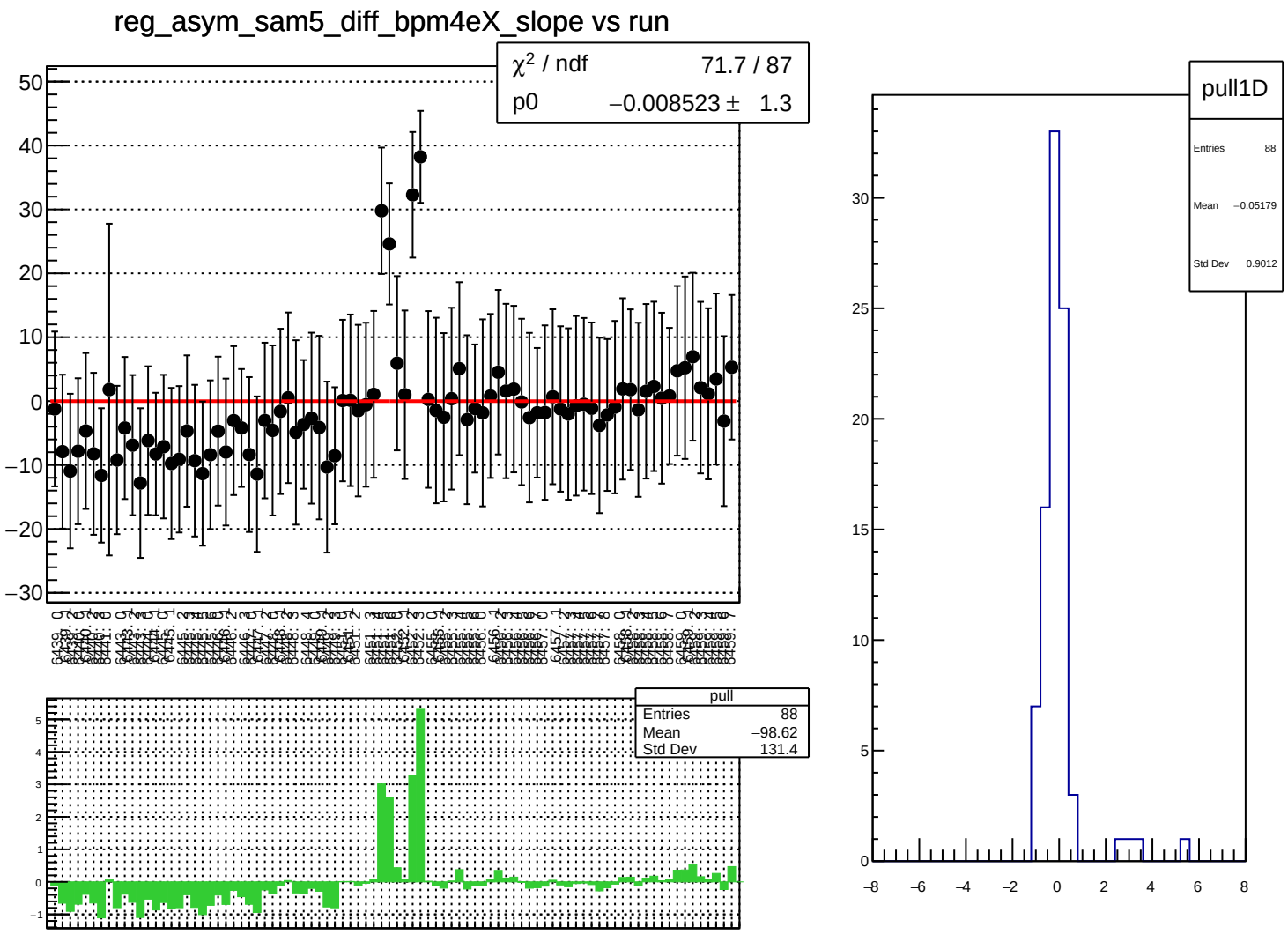

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 10.99 / 87
p0 0.4382 ± 0.1048
pull
Entries 88
Mean 264.2
Std Dev 218.7
pull1D
Entries 88
Mean 0.01412
Std Dev 0.3532

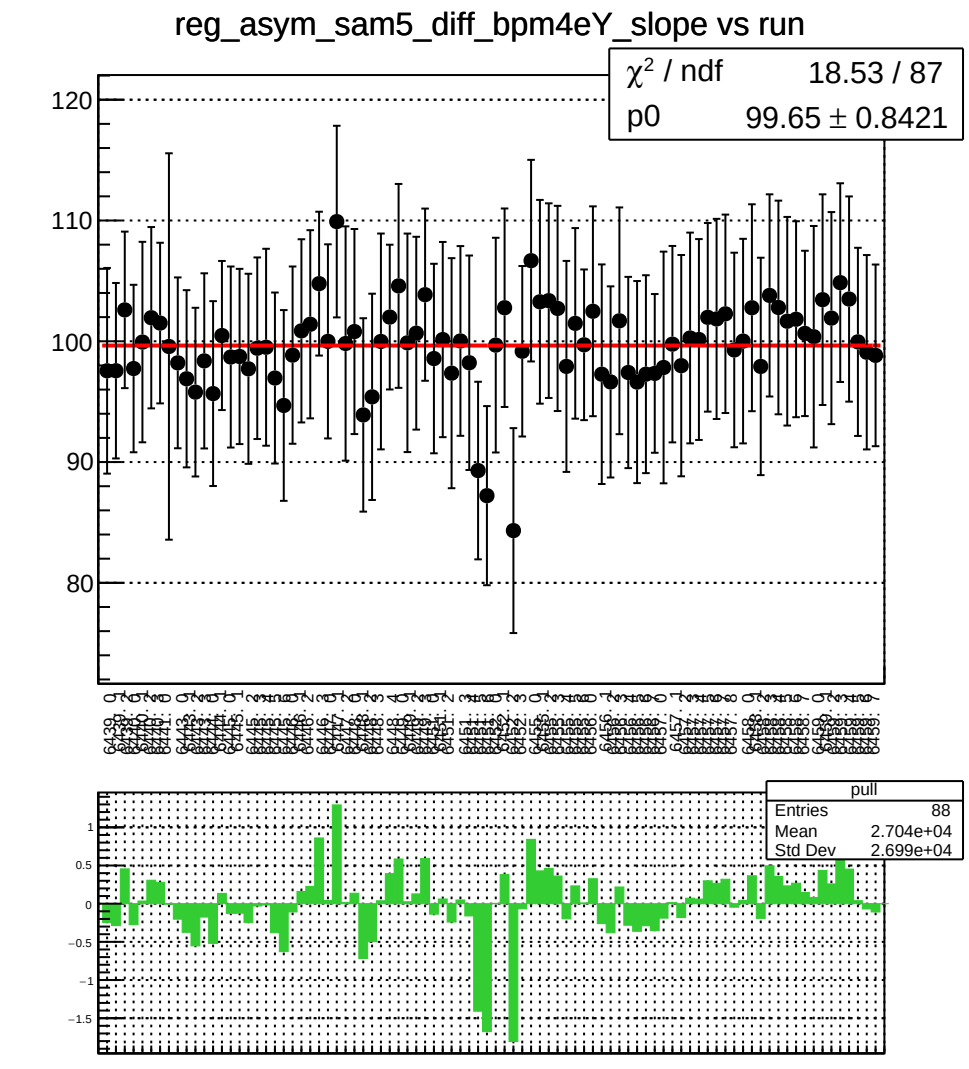

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 71.65 / 87
p0 1.487 ± 1.196
pull
Entries 88
Mean −117.3
Std Dev 150.8

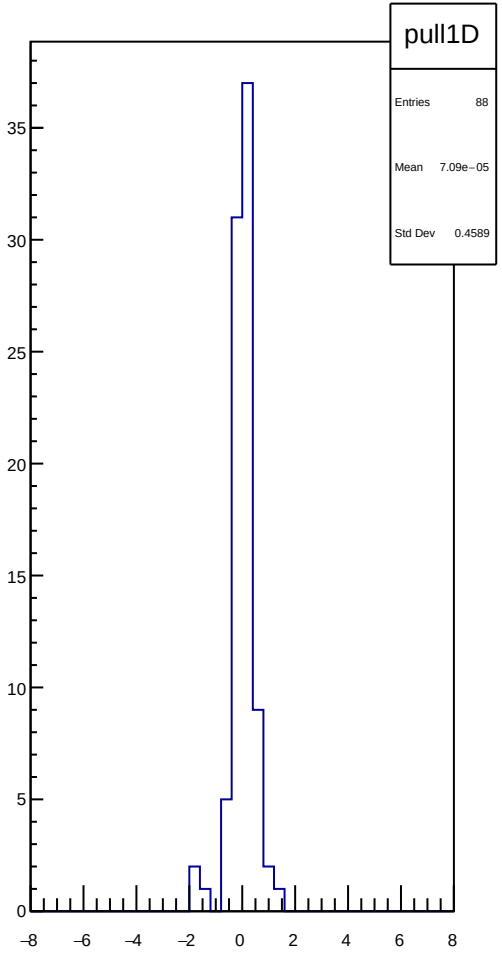

pull1D
Entries 88
Mean 0.04625
Std Dev 0.9012

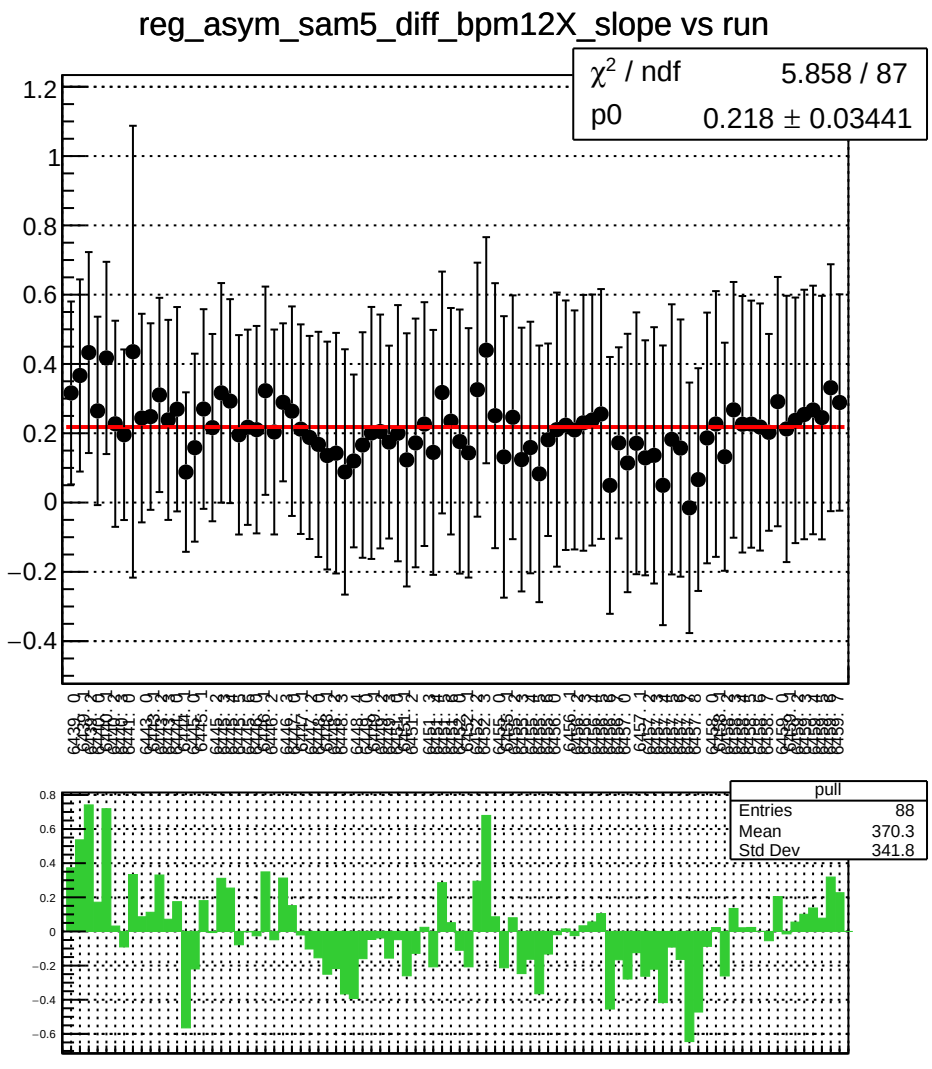

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 30.15 / 87
p0 53.53 ± 0.8388
pull
Entries 88
Mean 124.1
Std Dev 119.2

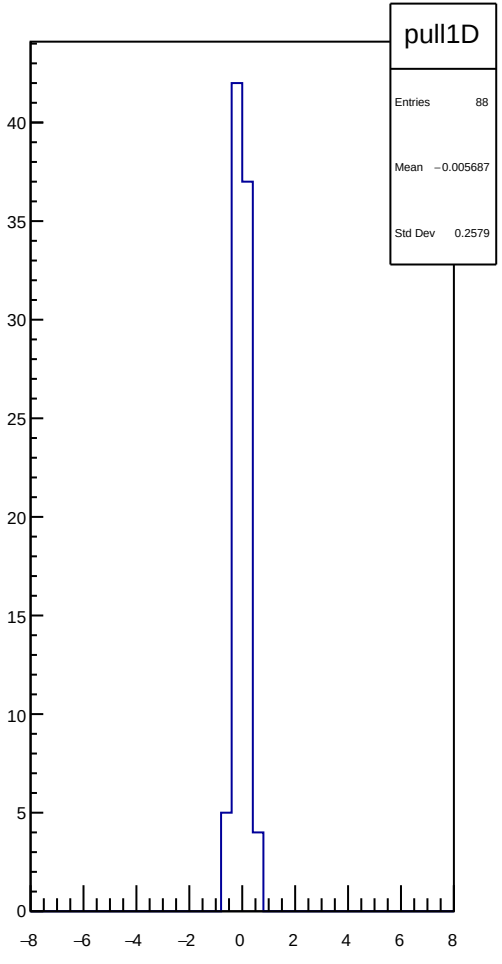

pull1D
Entries 88
Mean 0.01141
Std Dev 0.5852

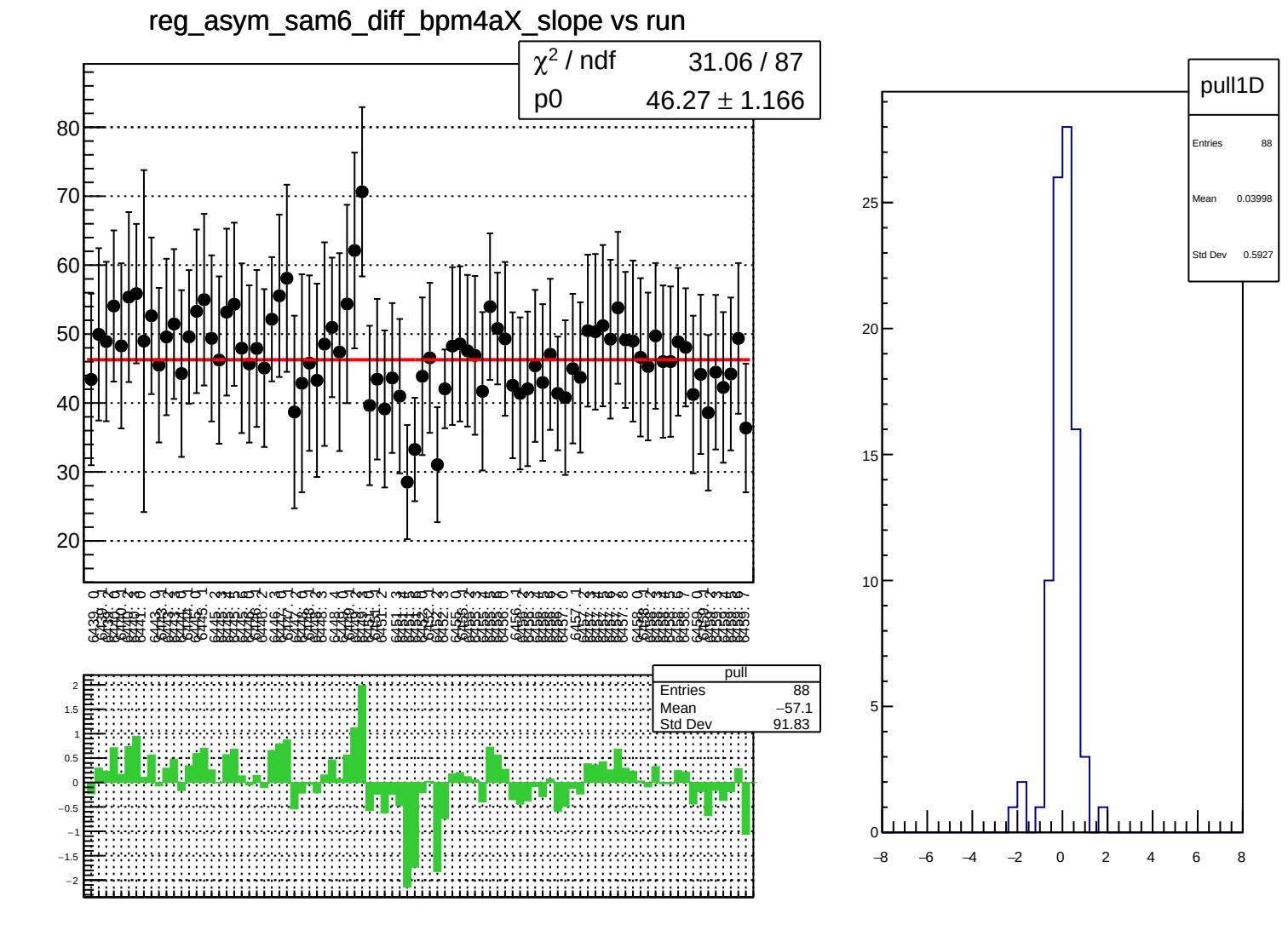

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 71.7 / 87
p0 −0.008523 ± 1.3
pull
Entries 88
Mean −98.62
Std Dev 131.4
pull1D
Entries 88
Mean −0.05179
Std Dev 0.9012

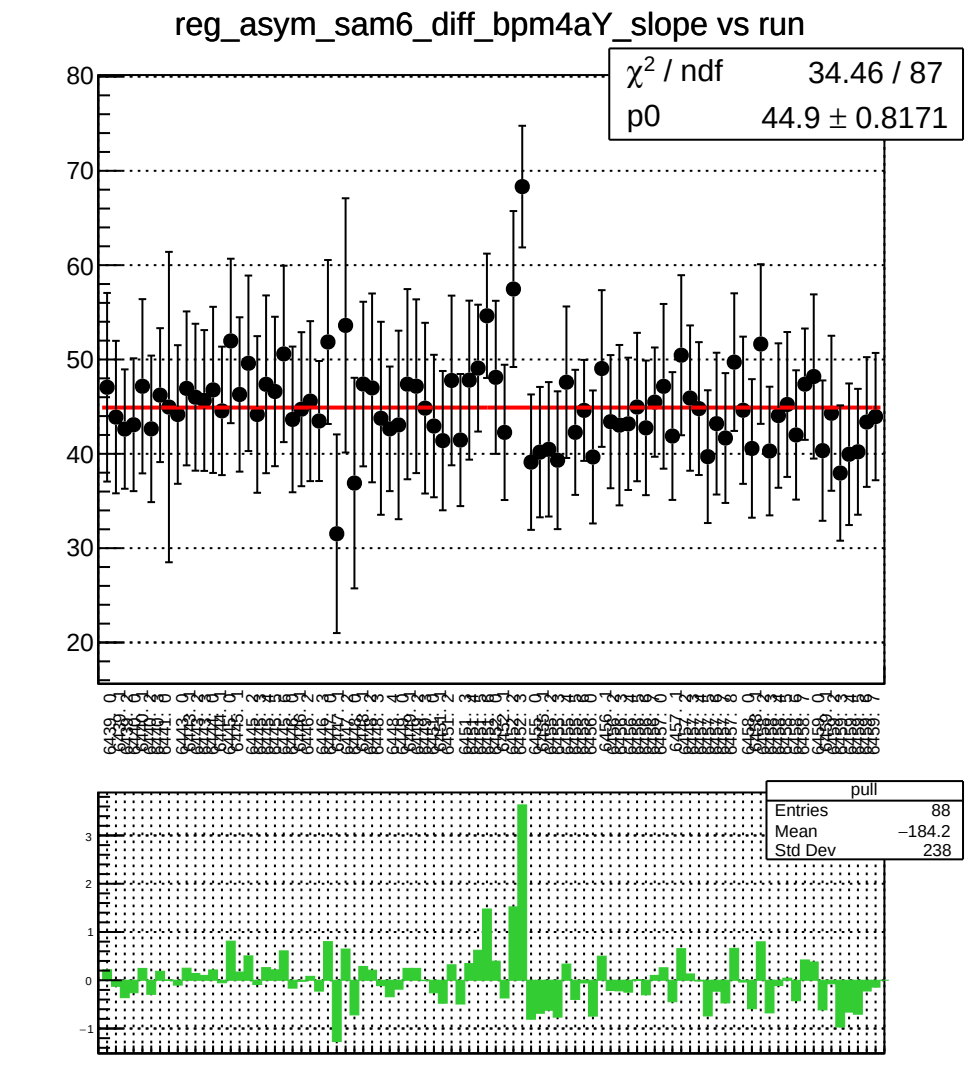

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 18.53 / 87
p0 99.65 ± 0.8421
120
110
100
90
80
pull
Entries 88
Mean 2.704e+04
Std Dev 2.699e+04
1
0.5
0
−0.5
−1
−1.5

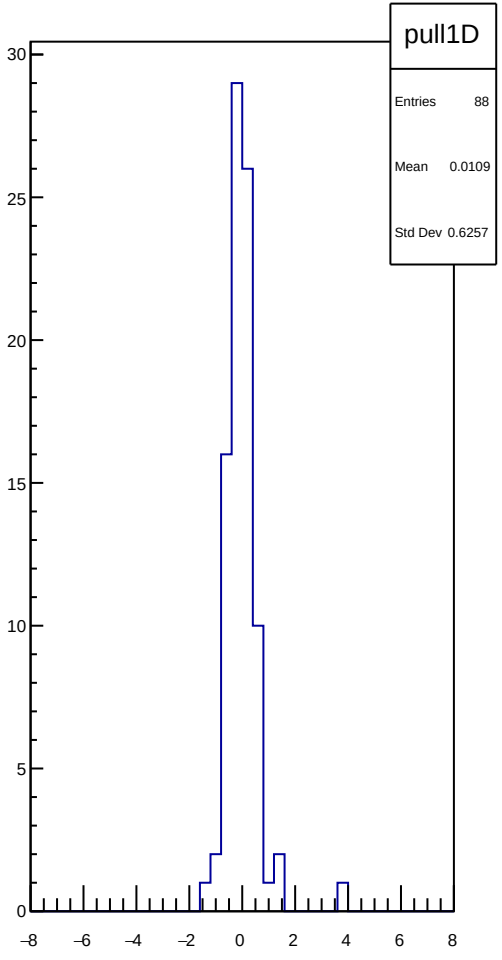

pull1D
Entries 88
Mean 7.09e−05
Std Dev 0.4589
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

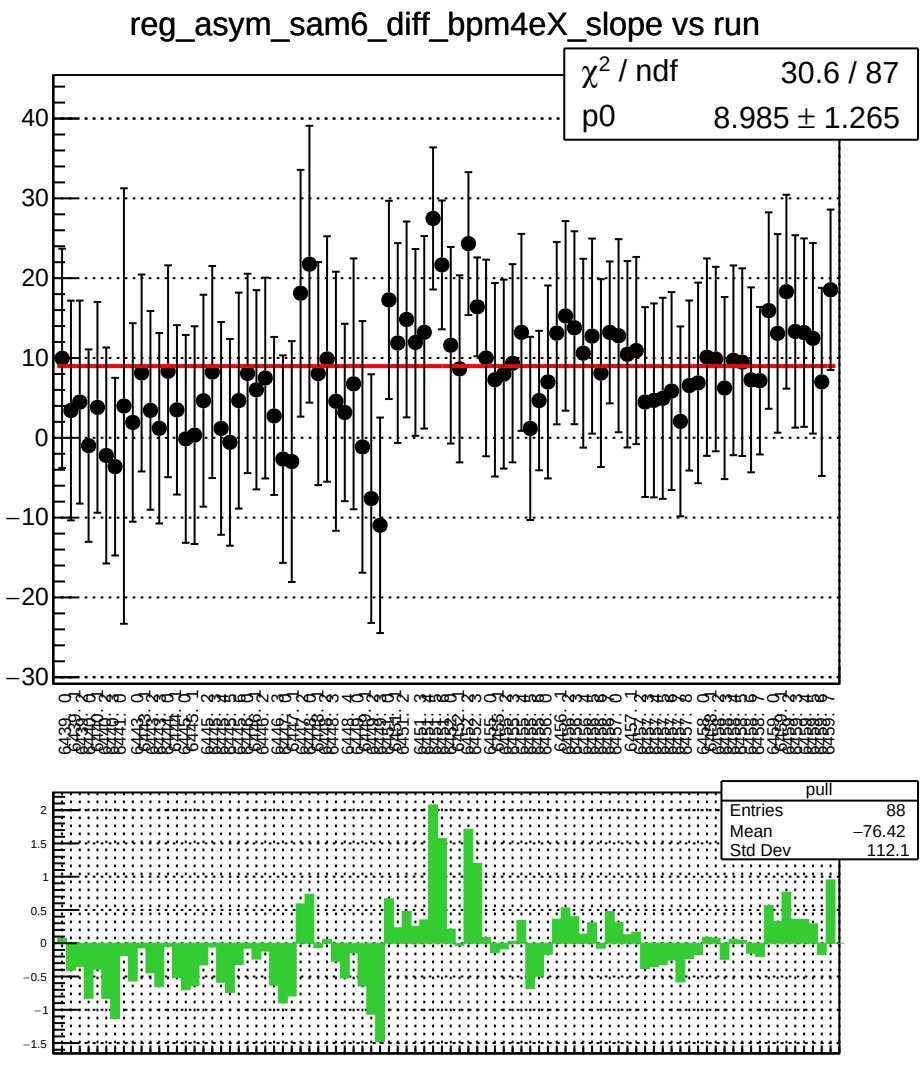

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 5.858 / 87
p0 0.218 ± 0.03441
pull
Entries 88
Mean 370.3
Std Dev 341.8

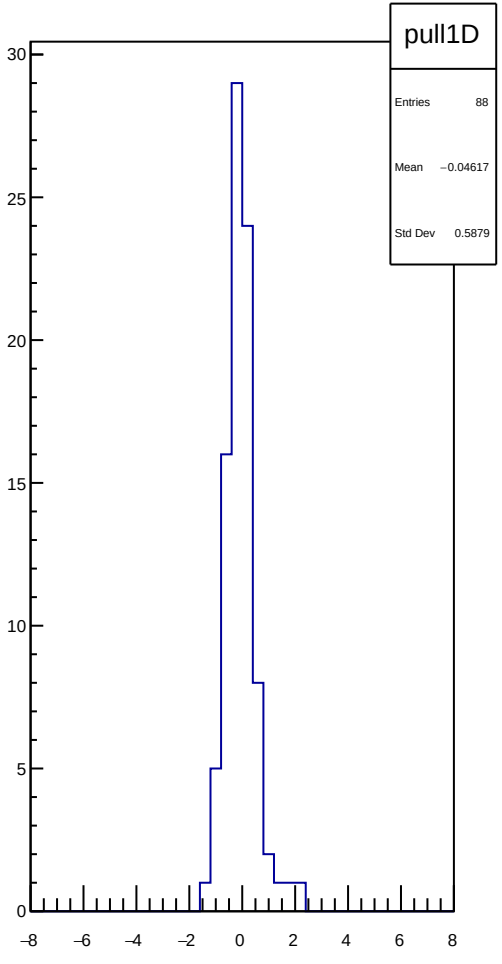

pull1D
Entries 88
Mean −0.005687
Std Dev 0.2579

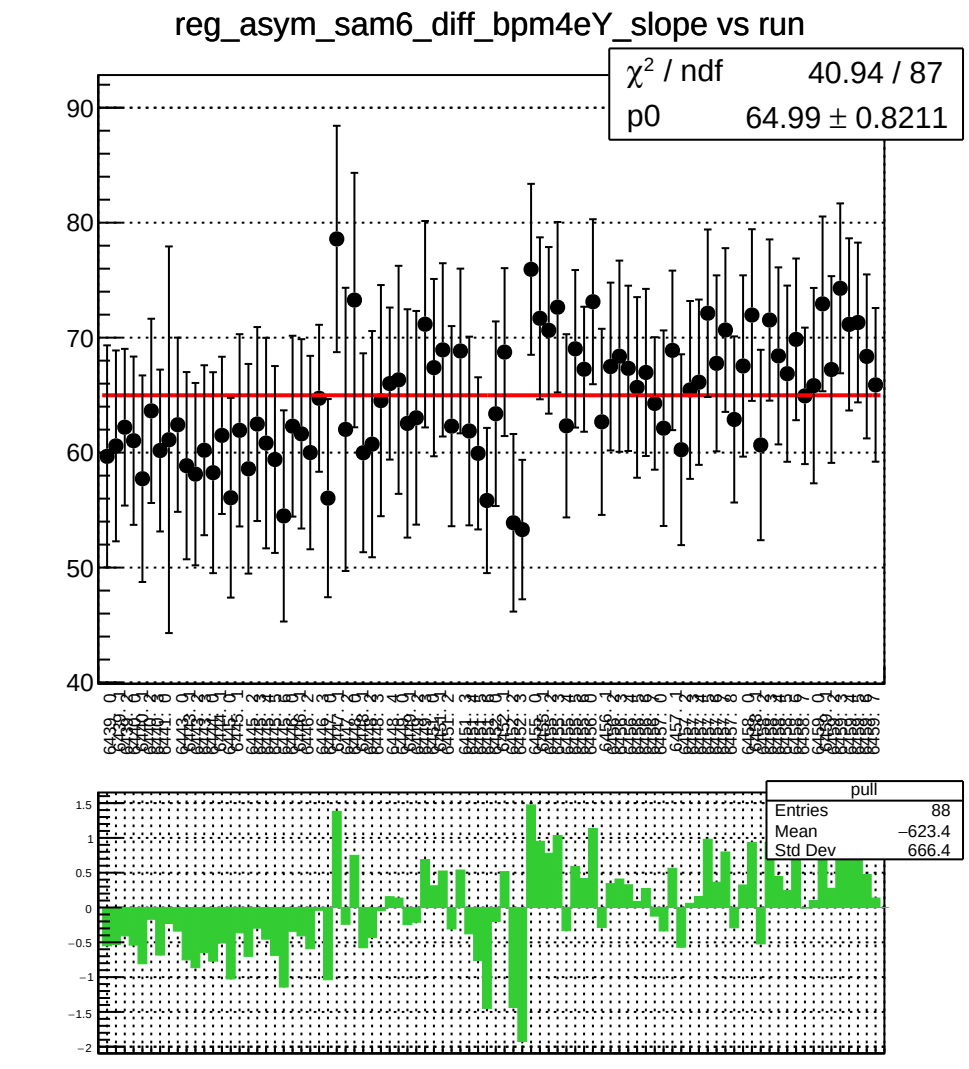

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 31.06 / 87
p0 46.27 ± 1.166
pull
Entries 88
Mean −57.1
Std Dev 91.83
pull1D
Entries 88
Mean 0.03998
Std Dev 0.5927

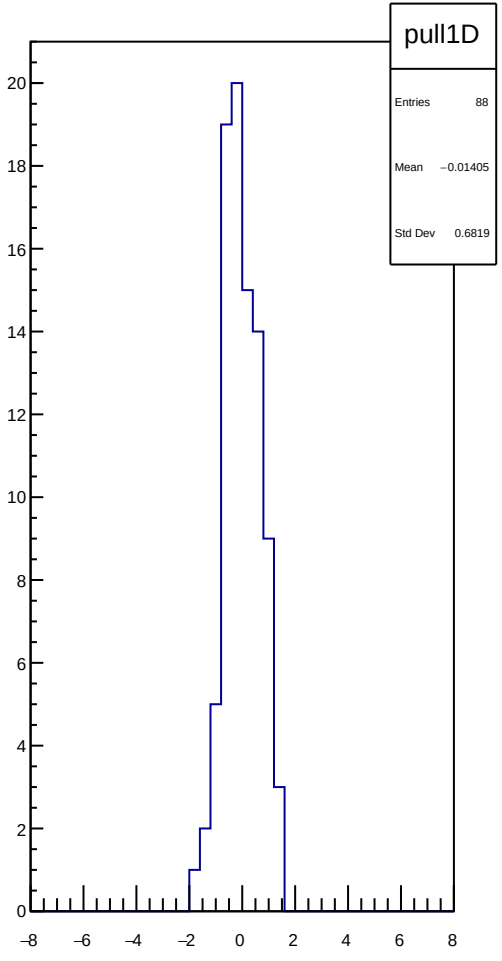

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 34.46 / 87
p0 44.9 ± 0.8171
pull
Entries 88
Mean −184.2
Std Dev 238

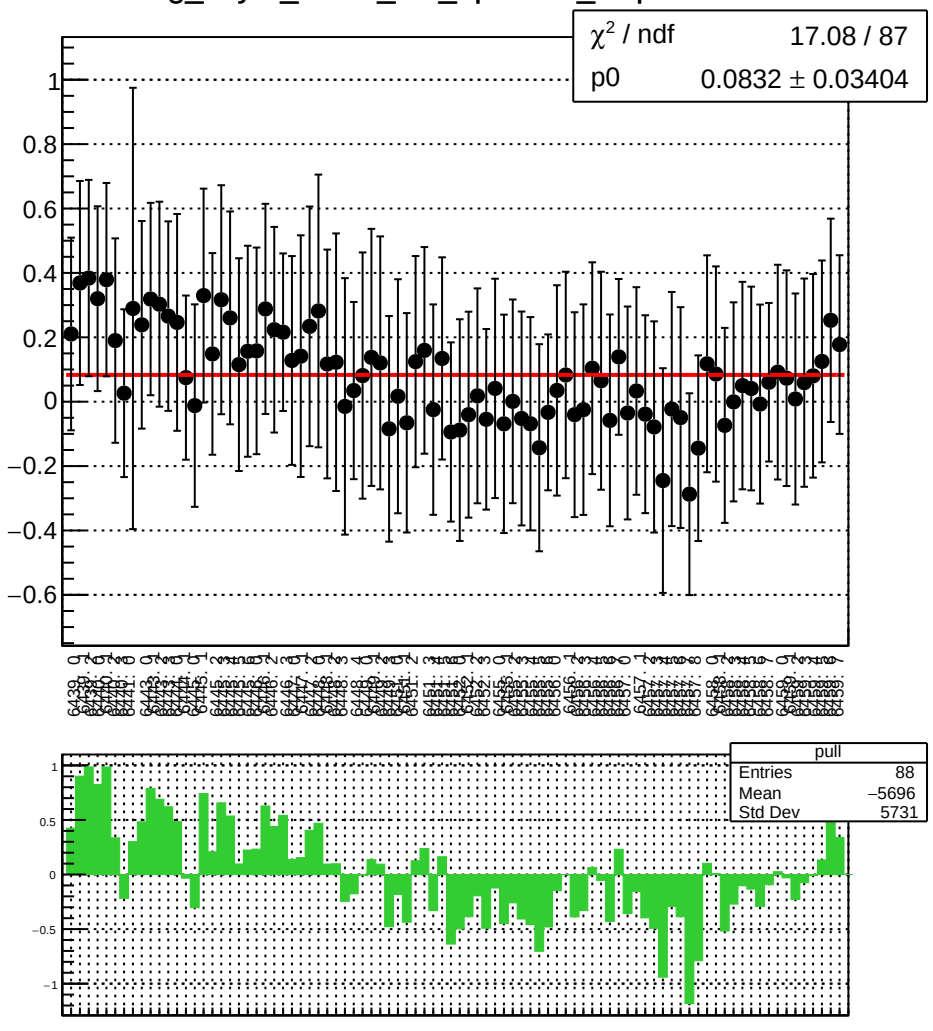

pull1D
Entries 88
Mean 0.0109
Std Dev 0.6257

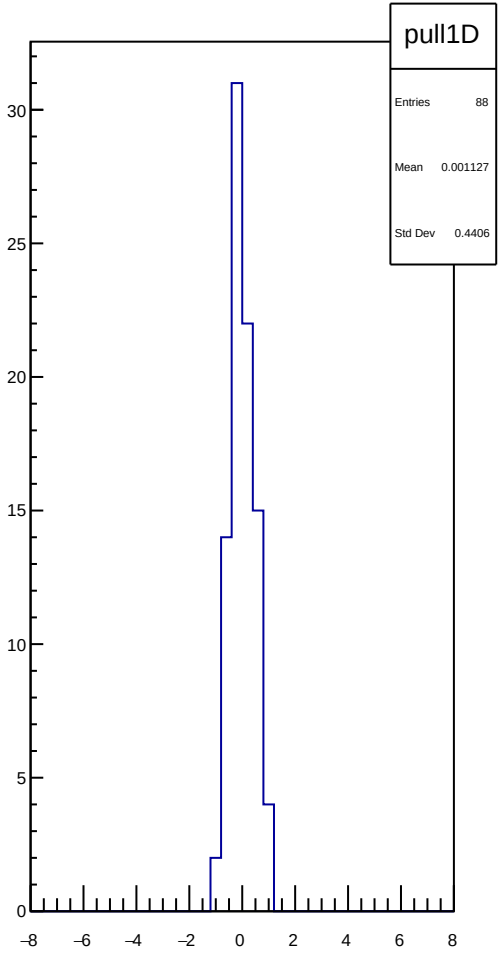

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 30.6 / 87
p0 8.985 ± 1.265
pull
Entries 88
Mean −76.42
Std Dev 112.1

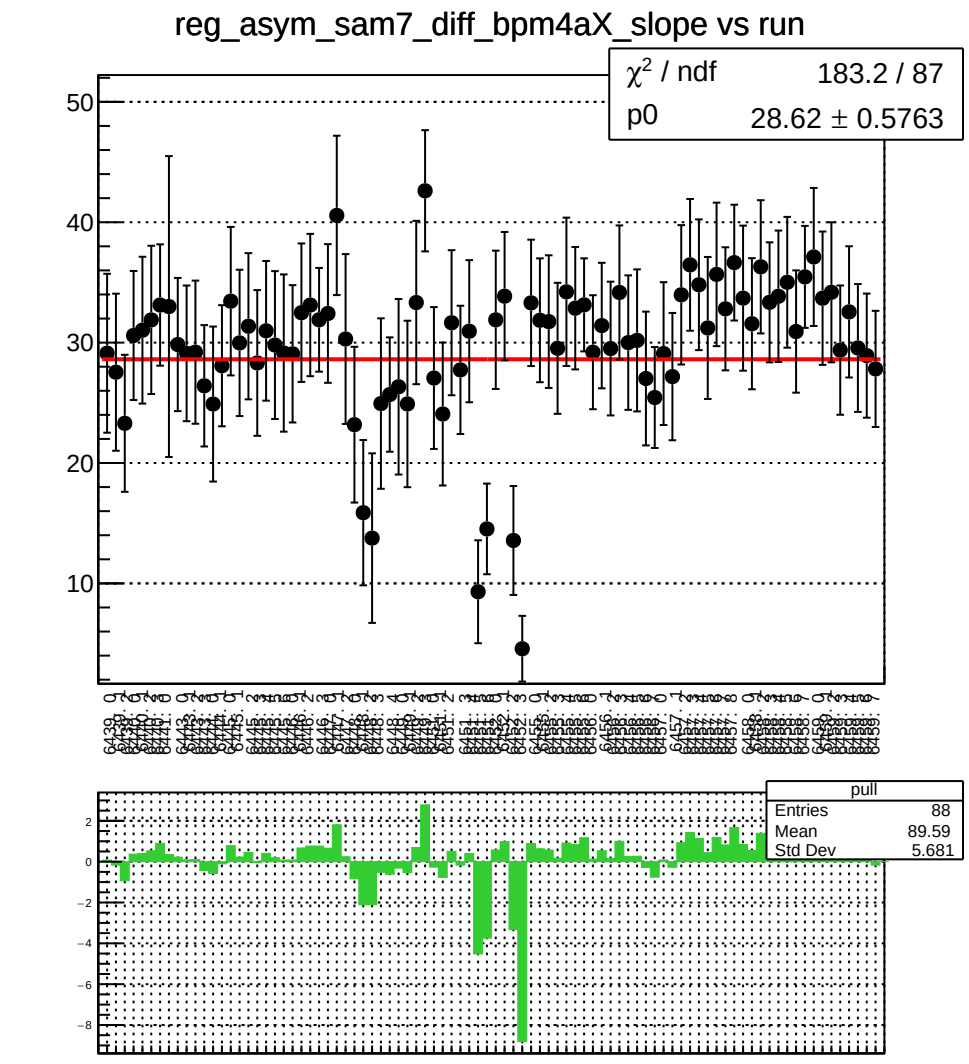

pull1D
Entries 88
Mean −0.04617
Std Dev 0.5879

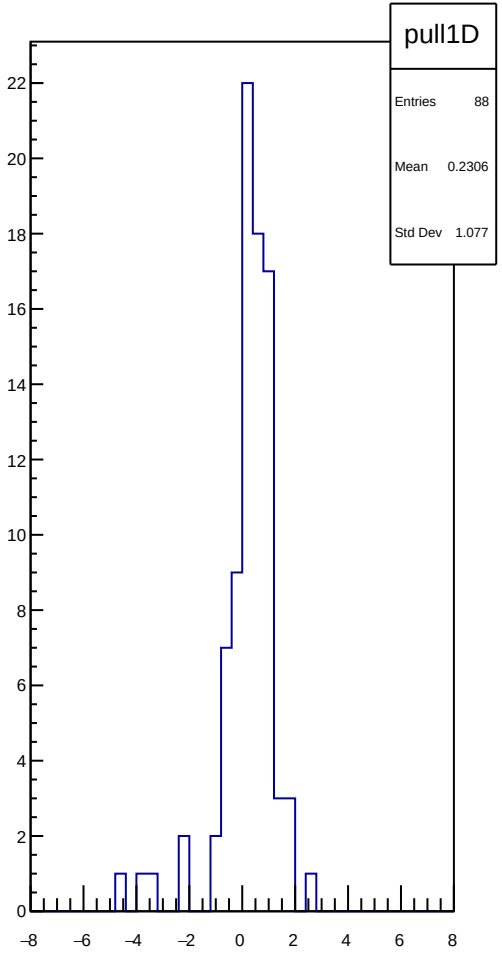

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 40.94 / 87
p0 64.99 ± 0.8211
pull
Entries 88
Mean −623.4
Std Dev 666.4

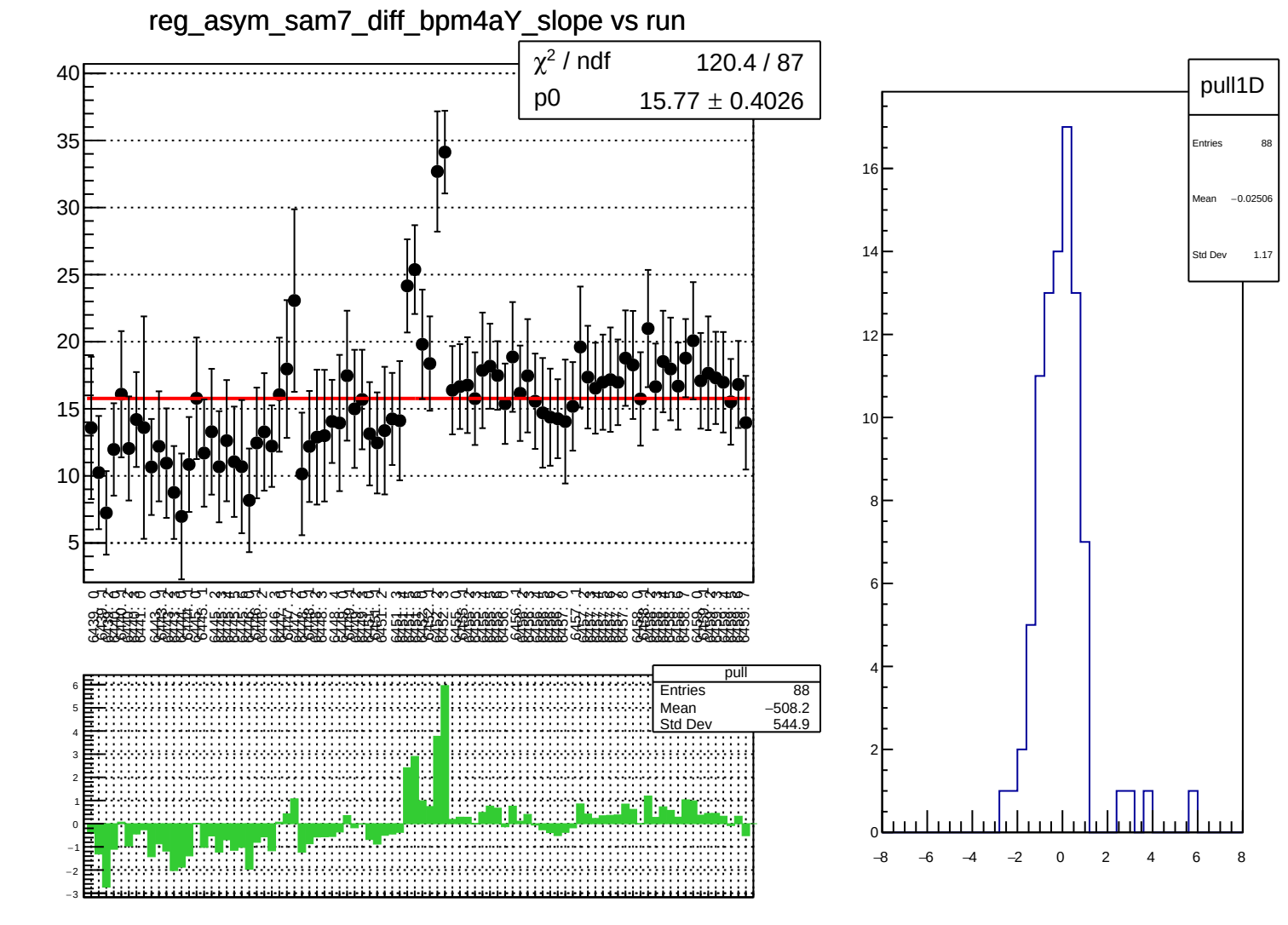

pull1D
Entries 88
Mean −0.01405
Std Dev 0.6819

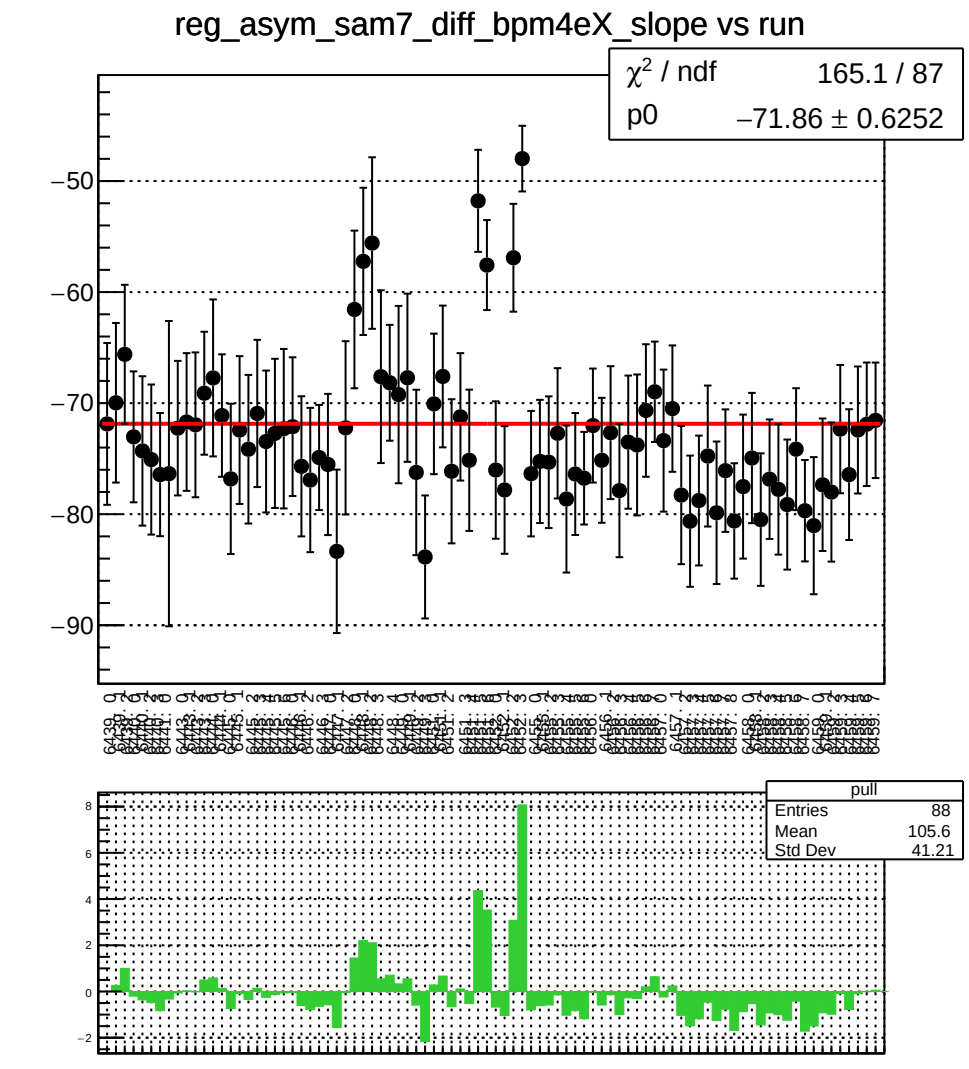

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 17.08 / 87
p0 0.0832 ± 0.03404
pull
Entries 88
Mean −5696
Std Dev 5731

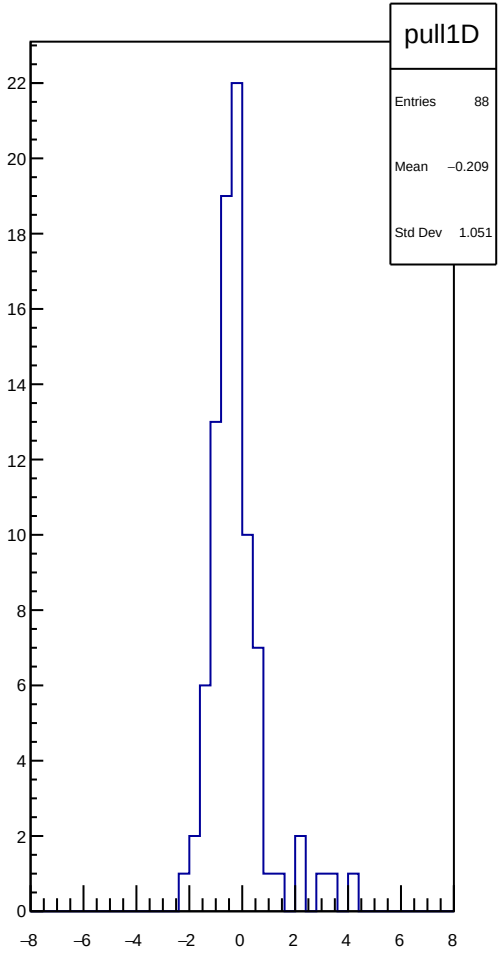

pull1D
Entries 88
Mean 0.001127
Std Dev 0.4406

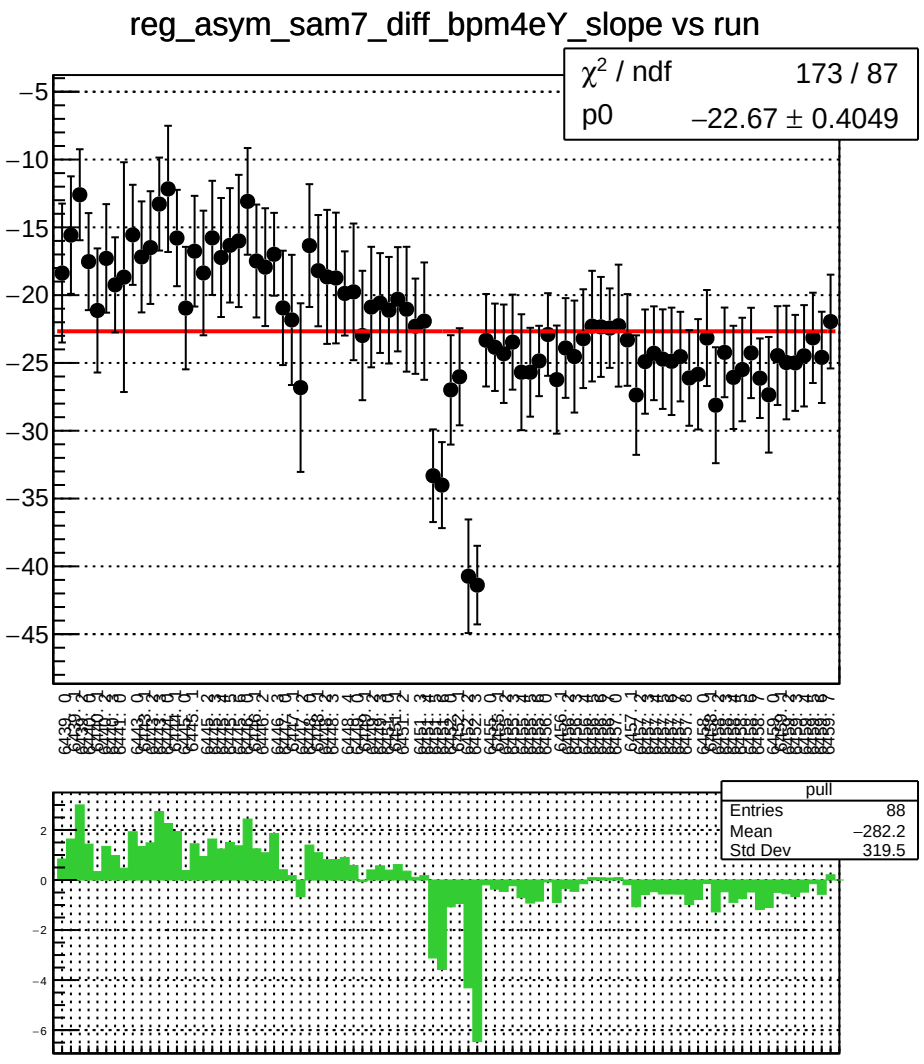

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 183.2 / 87
p0 28.62 ± 0.5763
pull
Entries 88
Mean 89.59
Std Dev 5.681

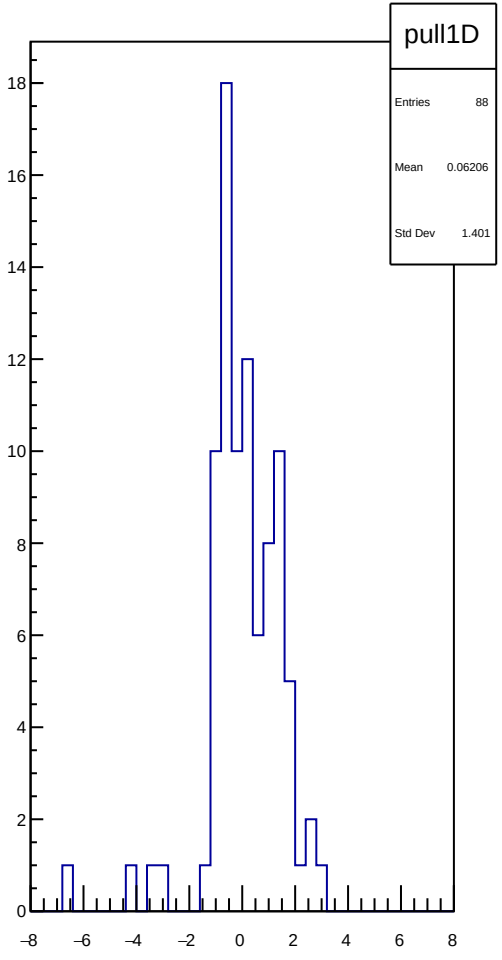

pull1D
Entries 88
Mean 0.2306
Std Dev 1.077

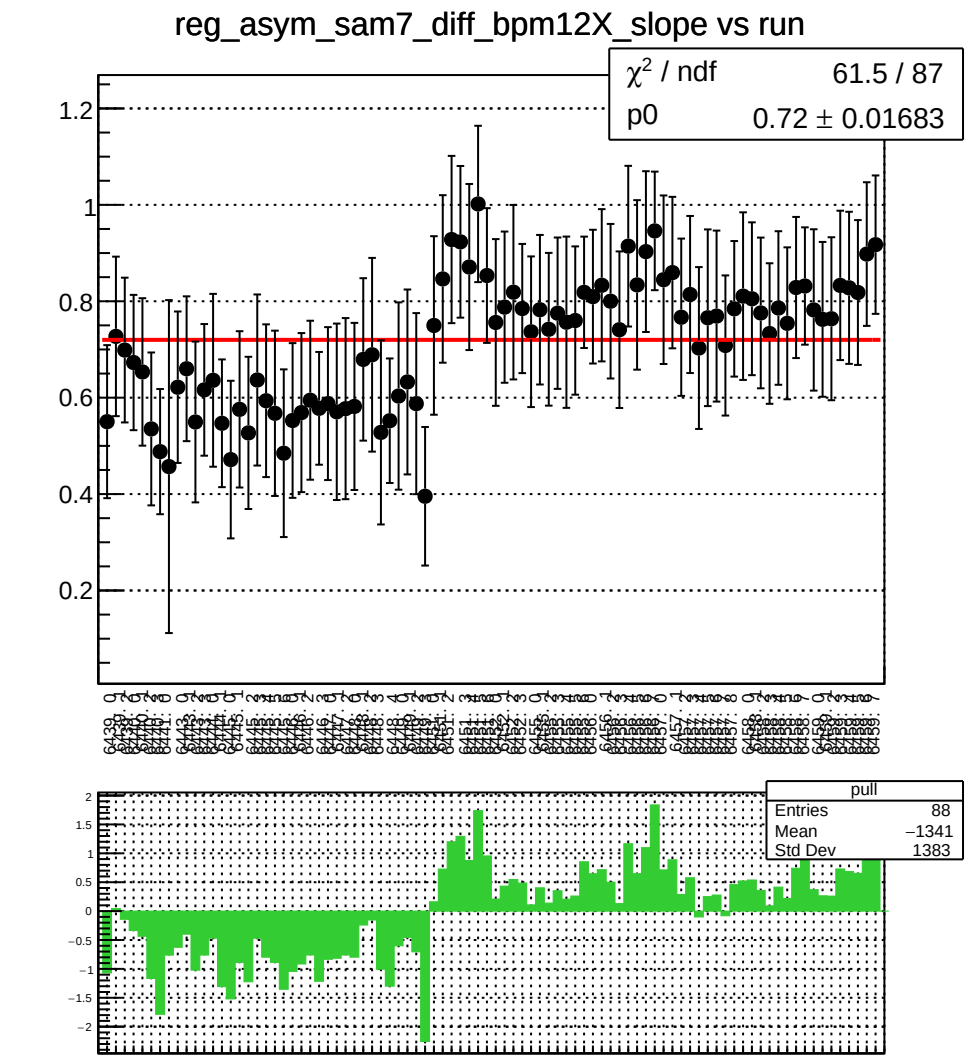

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 120.4 / 87
p0 15.77 ± 0.4026
pull
Entries 88
Mean −508.2
Std Dev 544.9
pull1D
Entries 88
Mean −0.02506
Std Dev 1.17

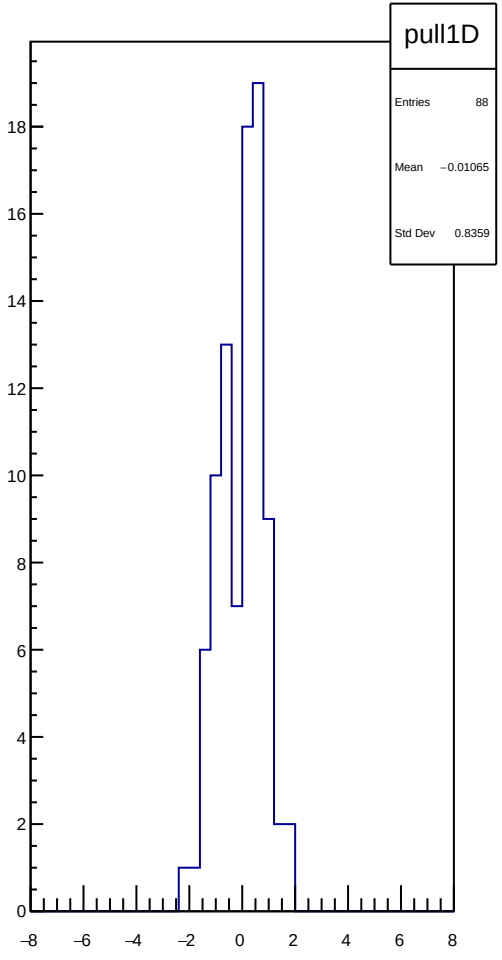

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 165.1 / 87
p0 −71.86 ± 0.6252
pull
Entries 88
Mean 105.6
Std Dev 41.21

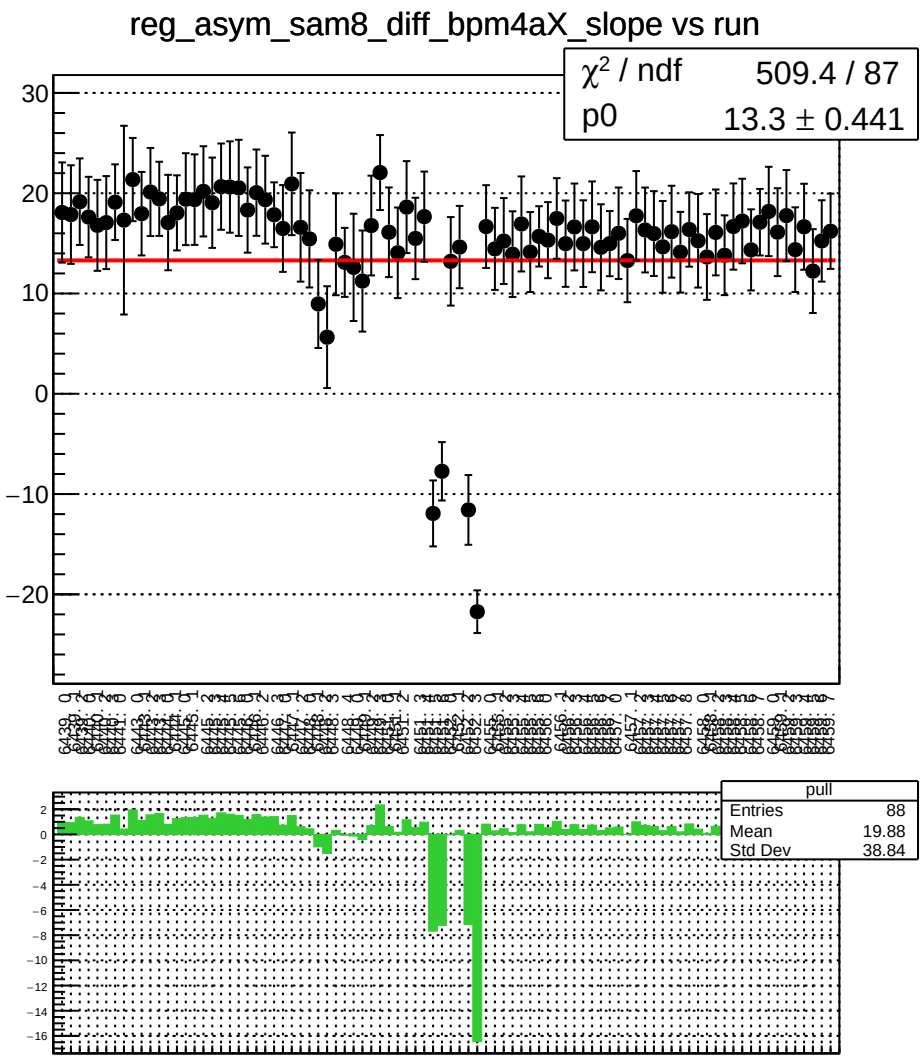

pull1D
Entries 88
Mean −0.209
Std Dev 1.051

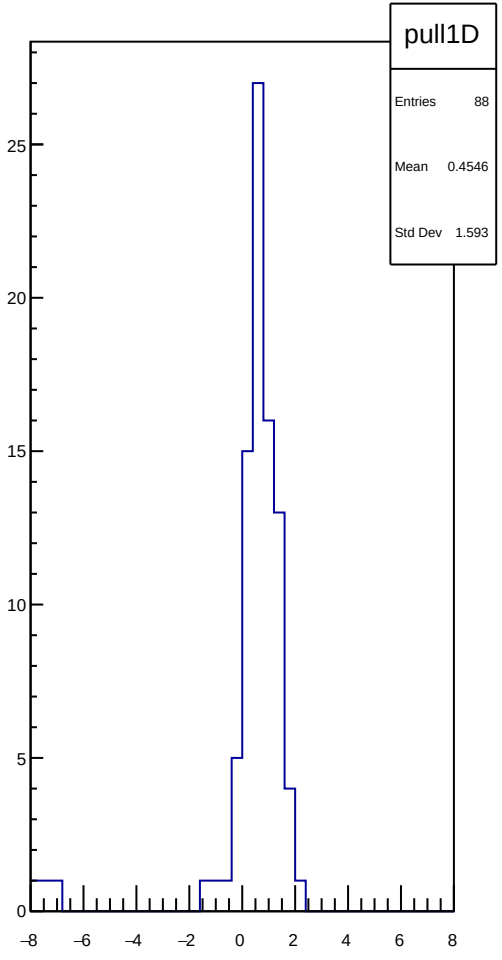

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 173 / 87
p0 −22.67 ± 0.4049
pull
Entries 88
Mean −282.2
Std Dev 319.5

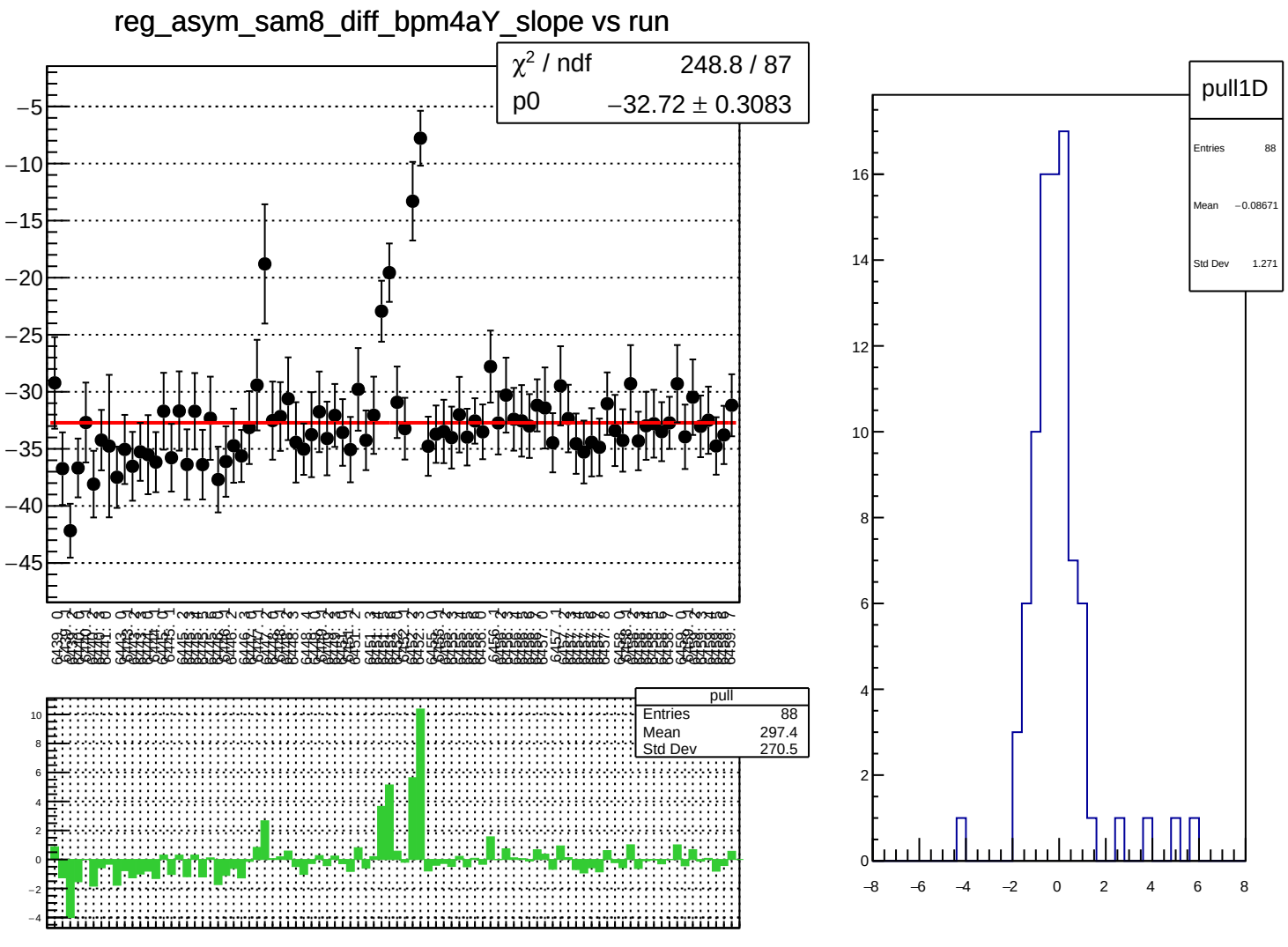

pull1D
Entries 88
Mean 0.06206
Std Dev 1.401

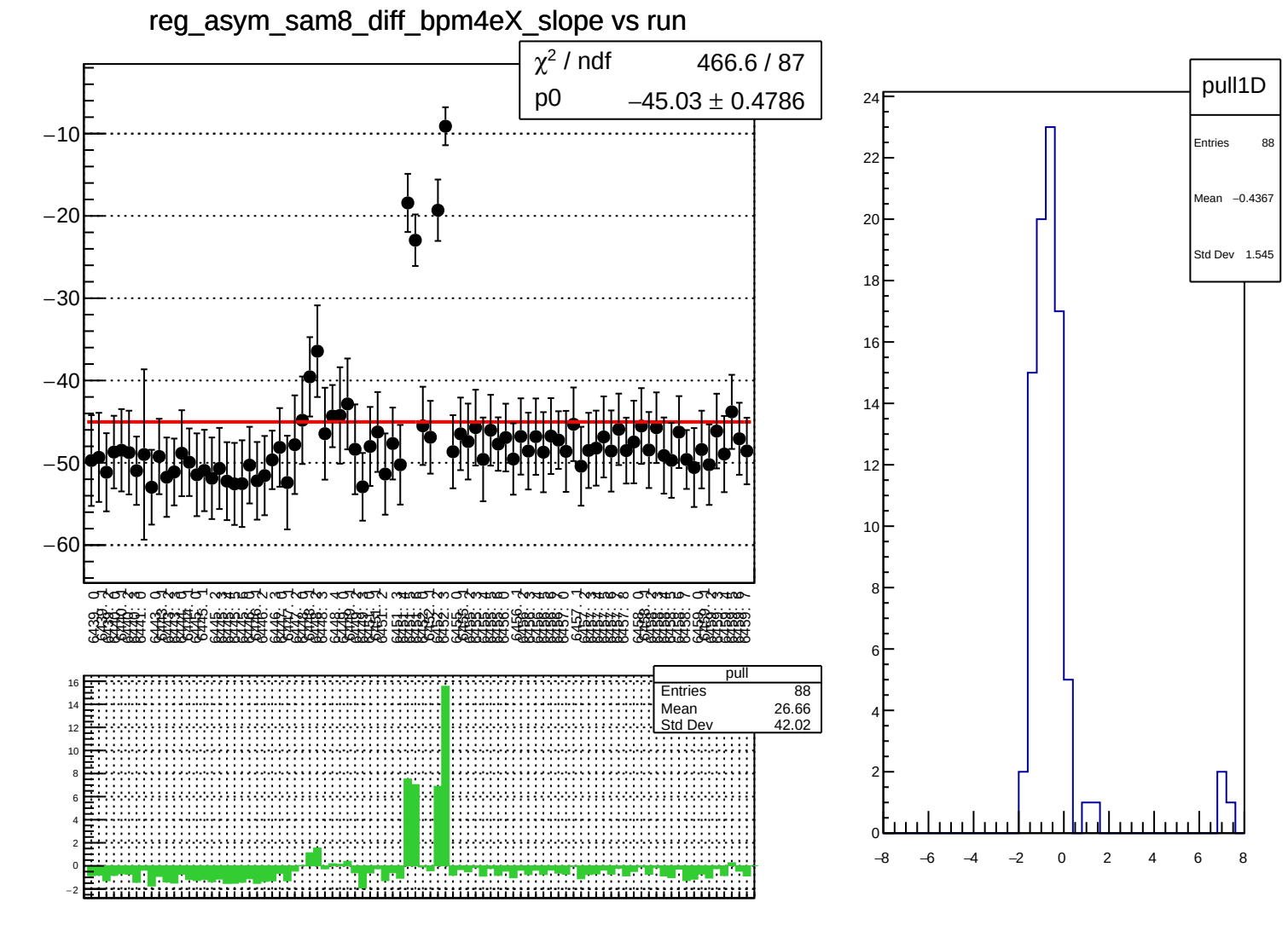

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 61.5 / 87
p0 0.72 ± 0.01683
pull
Entries 88
Mean −1341
Std Dev 1383

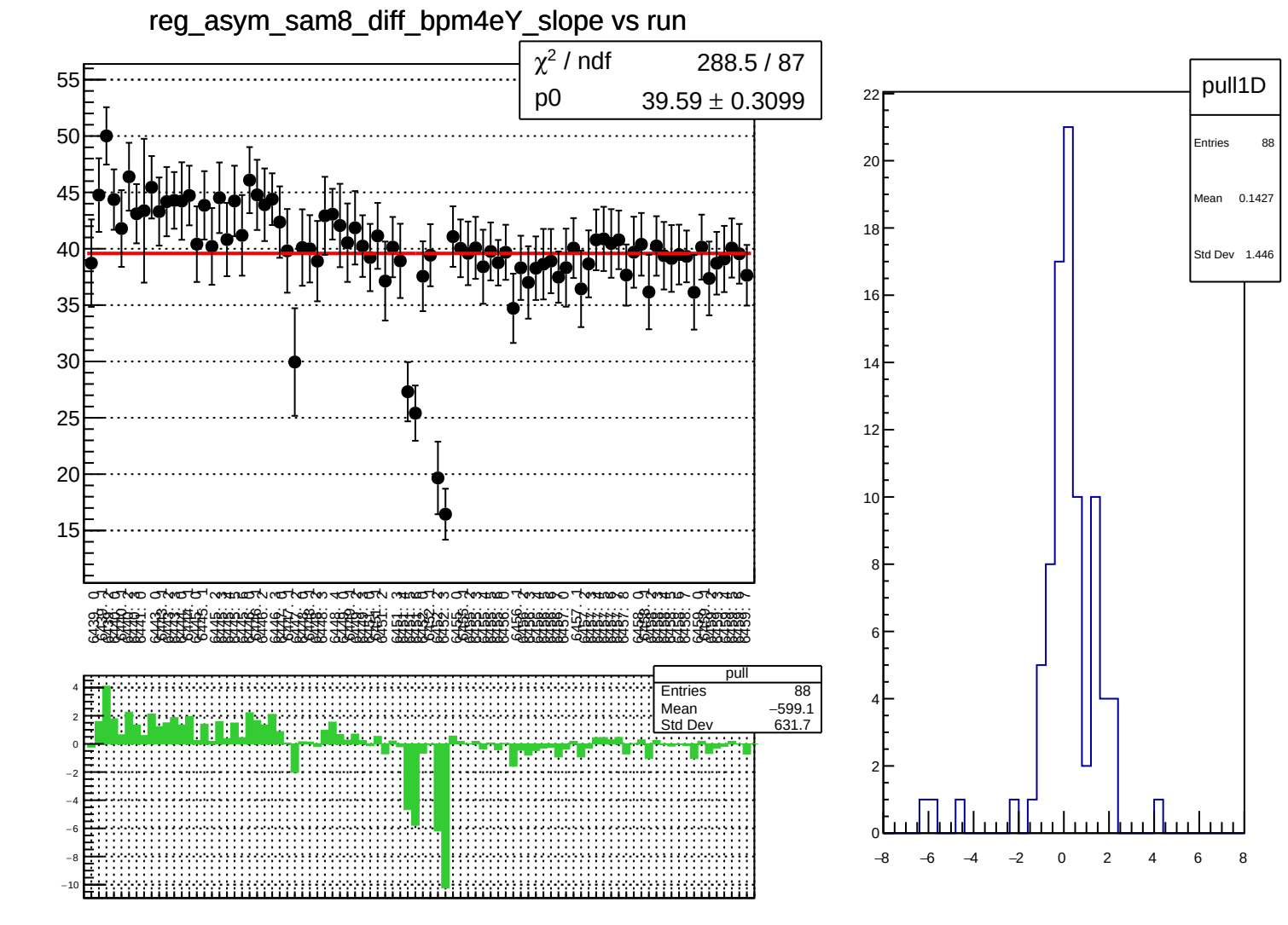

pull1D
Entries 88
Mean −0.01065
Std Dev 0.8359

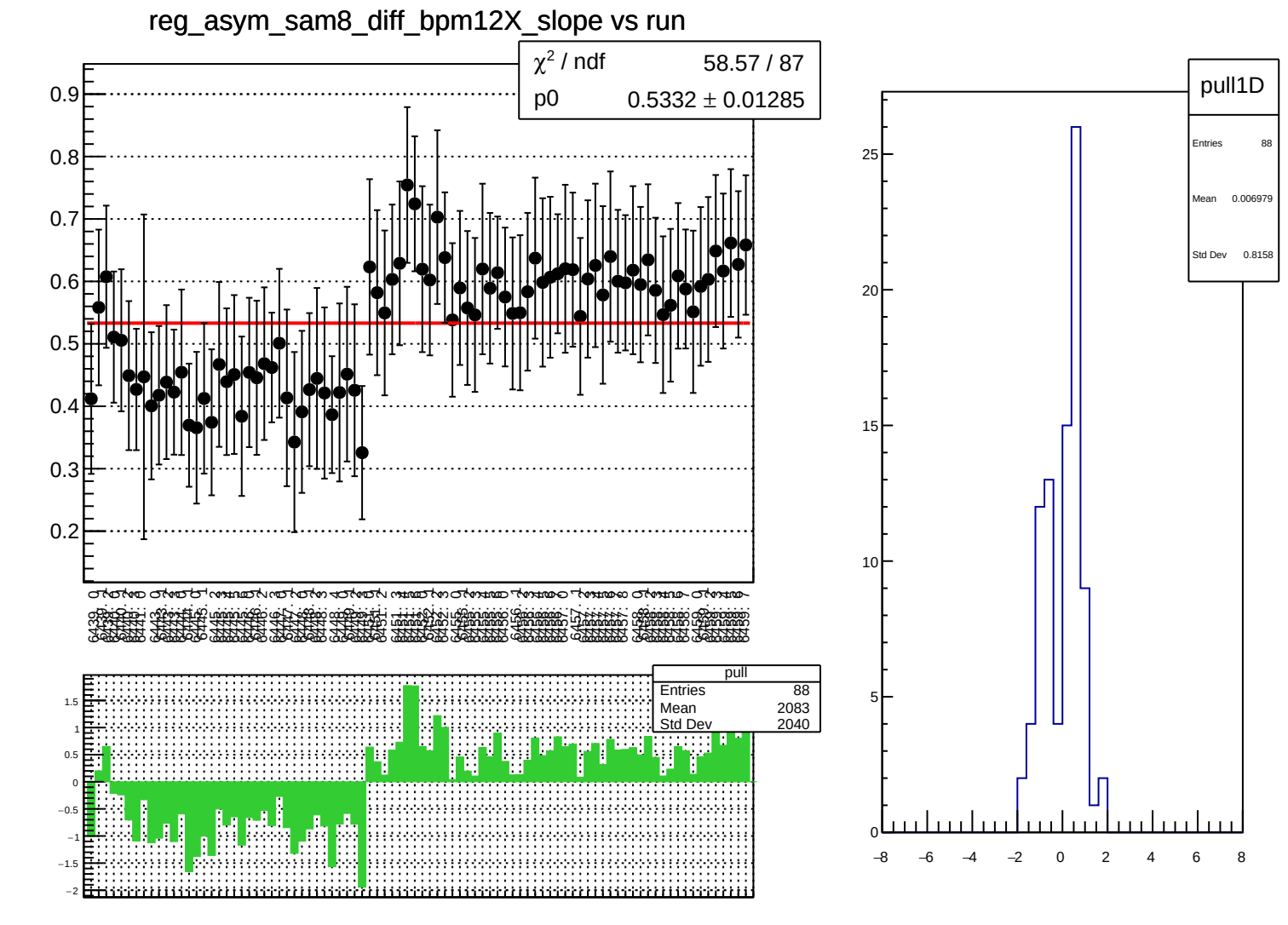

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 509.4 / 87
p0 13.3 ± 0.441
pull
Entries 88
Mean 19.88
Std Dev 38.84

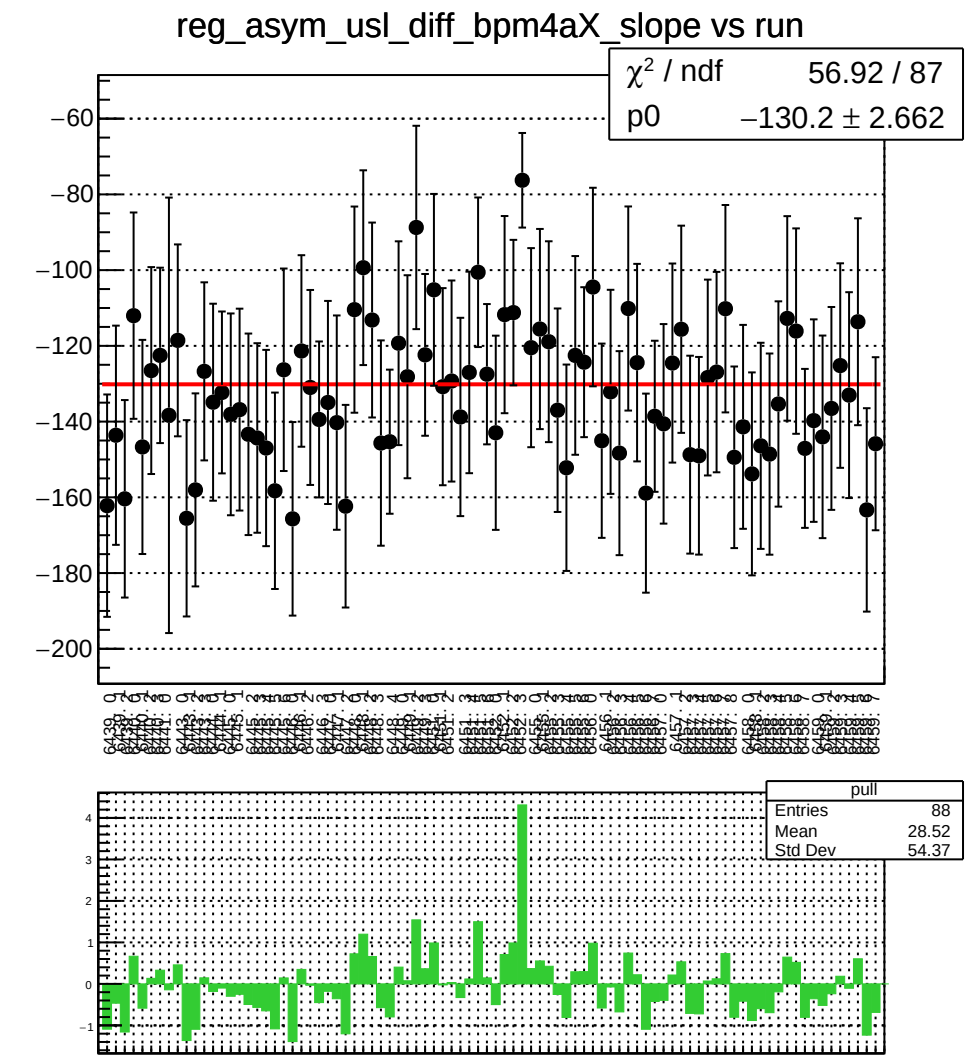

pull1D
Entries 88
Mean 0.4546
Std Dev 1.593

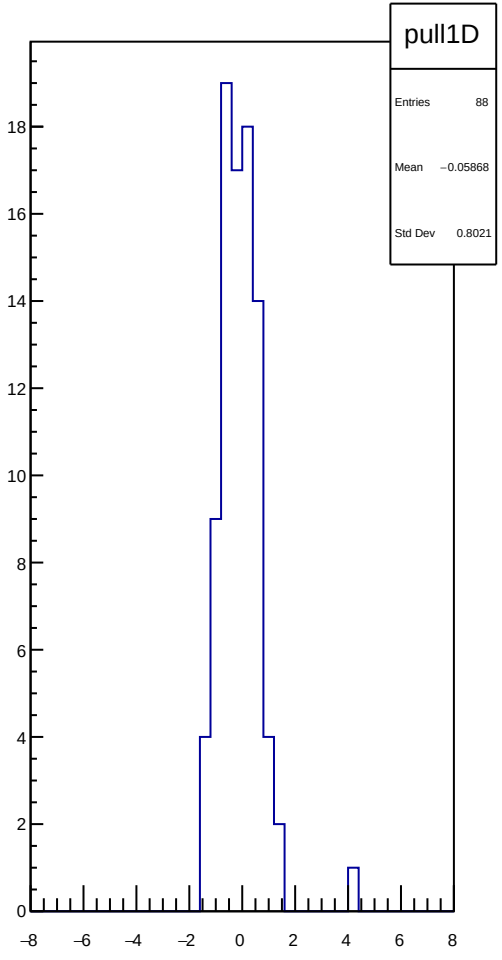

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 248.8 / 87
p0 −32.72 ± 0.3083
pull
Entries 88
Mean 297.4
Std Dev 270.5
pull1D
Entries 88
Mean −0.08671
Std Dev 1.271

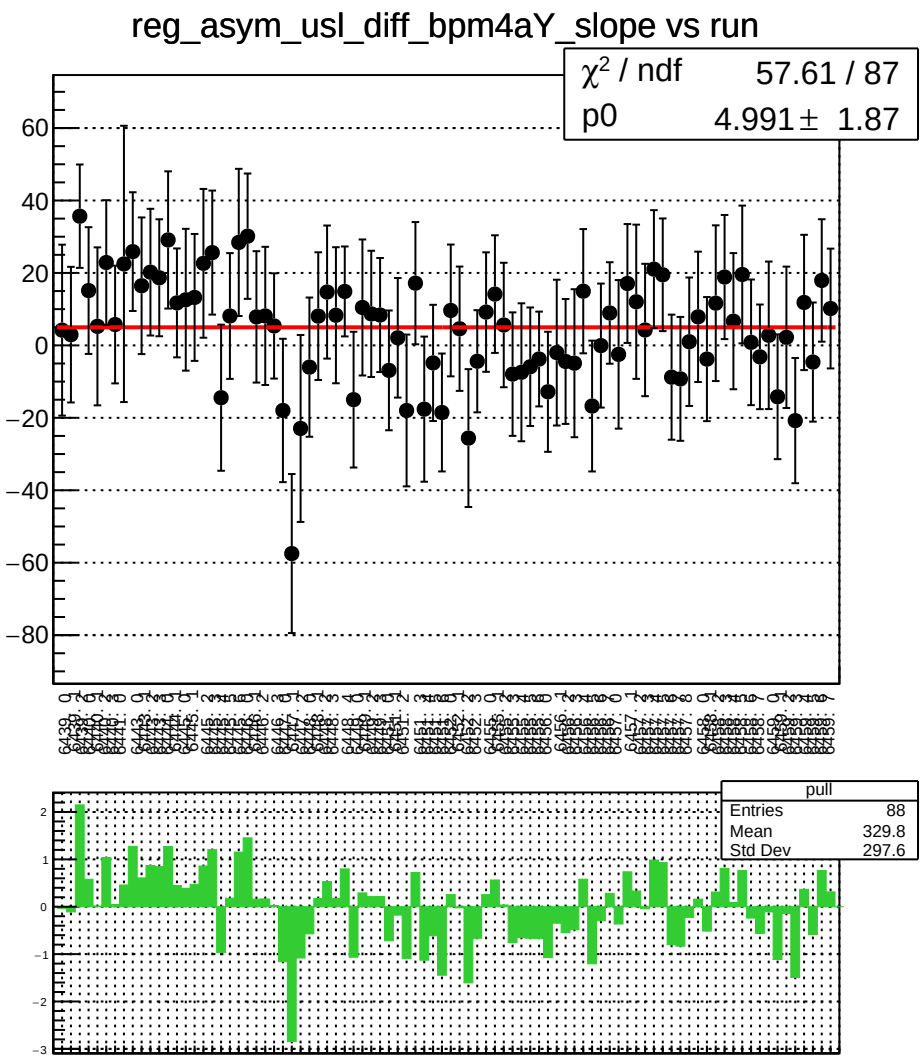

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 466.6 / 87
p0 −45.03 ± 0.4786
pull
Entries 88
Mean 26.66
Std Dev 42.02
pull1D
Entries 88
Mean −0.4367
Std Dev 1.545

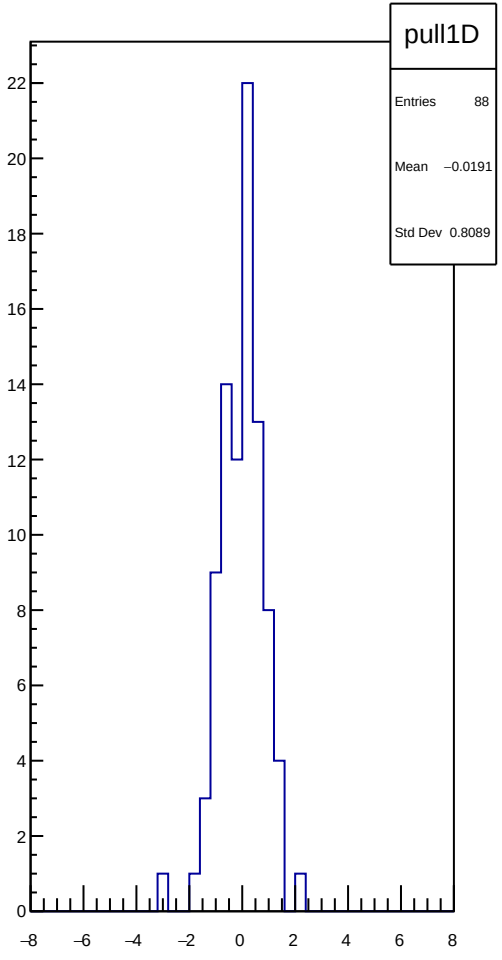

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 288.5 / 87
p0 39.59 ± 0.3099
pull
Entries 88
Mean −599.1
Std Dev 631.7
pull1D
Entries 88
Mean 0.1427
Std Dev 1.446

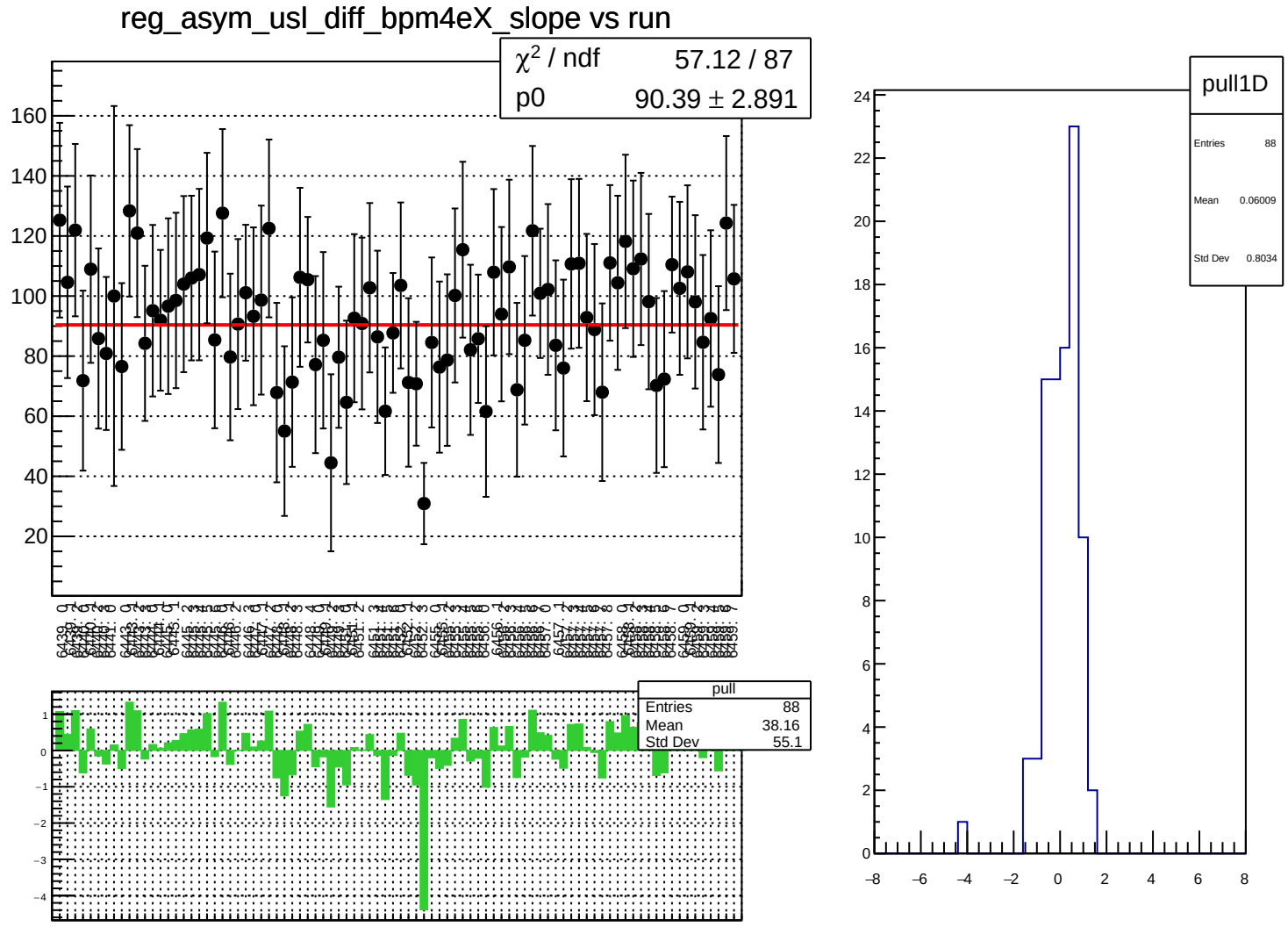

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 58.57 / 87
p0 0.5332 ± 0.01285
pull
Entries 88
Mean 2083
Std Dev 2040
pull1D
Entries 88
Mean 0.006979
Std Dev 0.8158

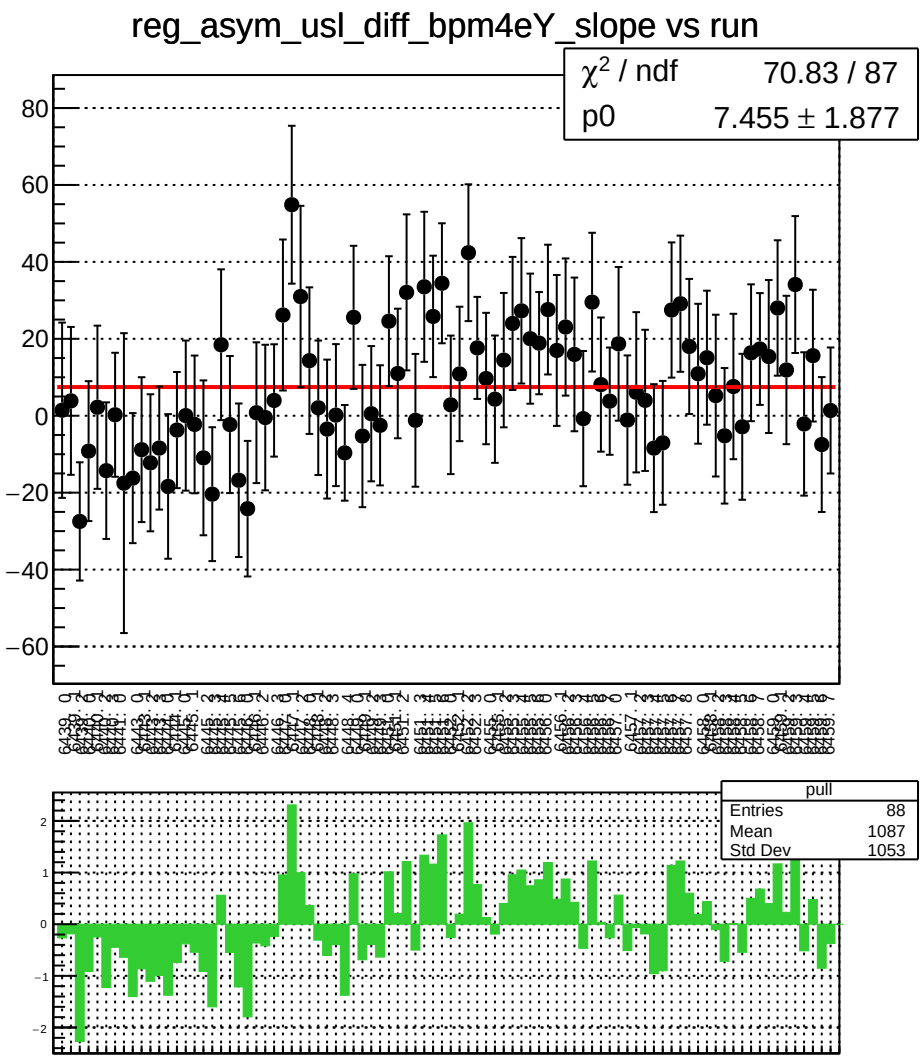

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 56.92 / 87
p0 −130.2 ± 2.662
pull
Entries 88
Mean 28.52
Std Dev 54.37

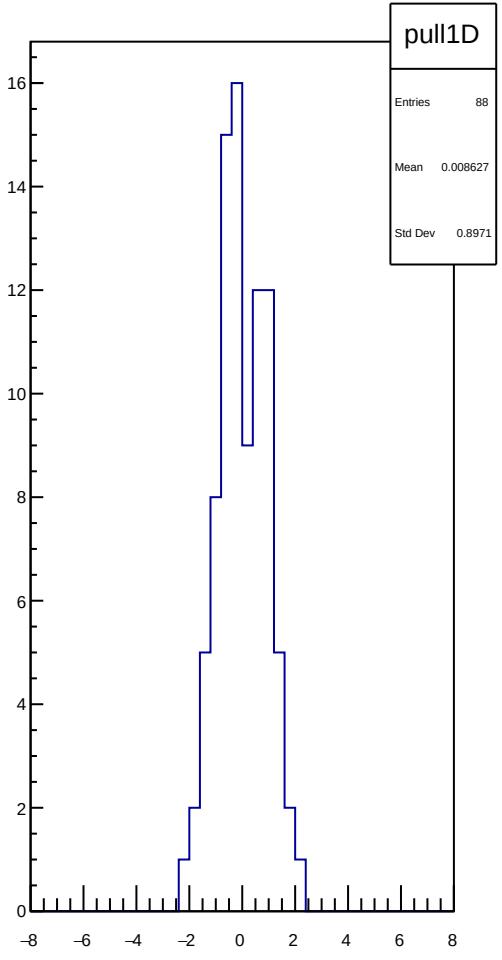

pull1D
Entries 88
Mean −0.05868
Std Dev 0.8021

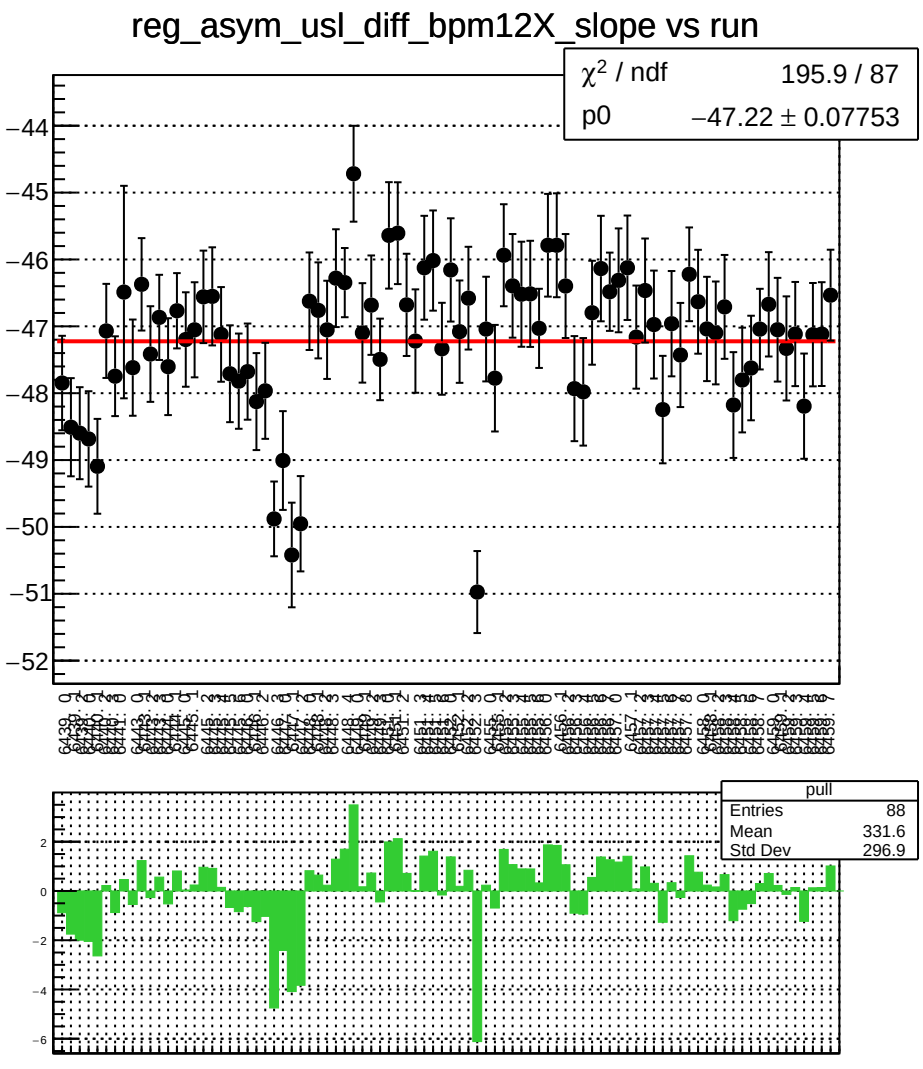

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 57.61 / 87
p0 4.991 ± 1.87
pull
Entries 88
Mean 329.8
Std Dev 297.6

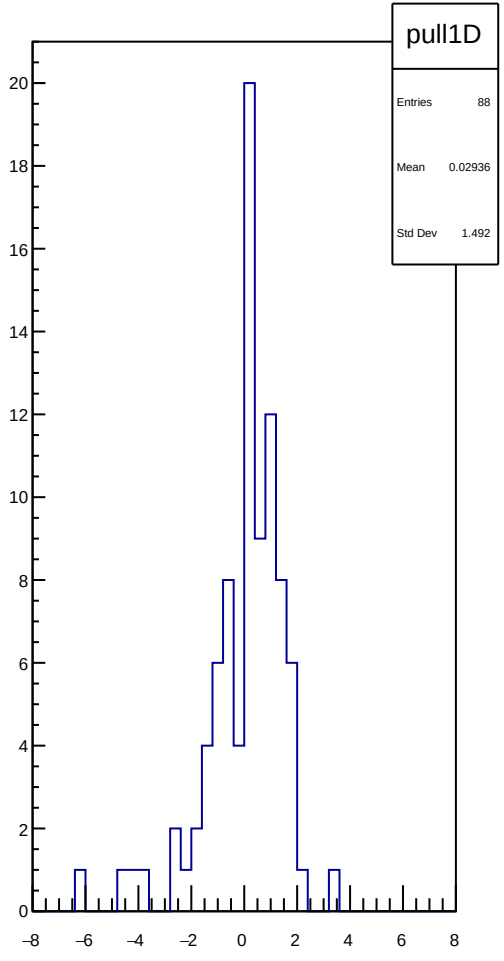

pull1D
Entries 88
Mean −0.0191
Std Dev 0.8089

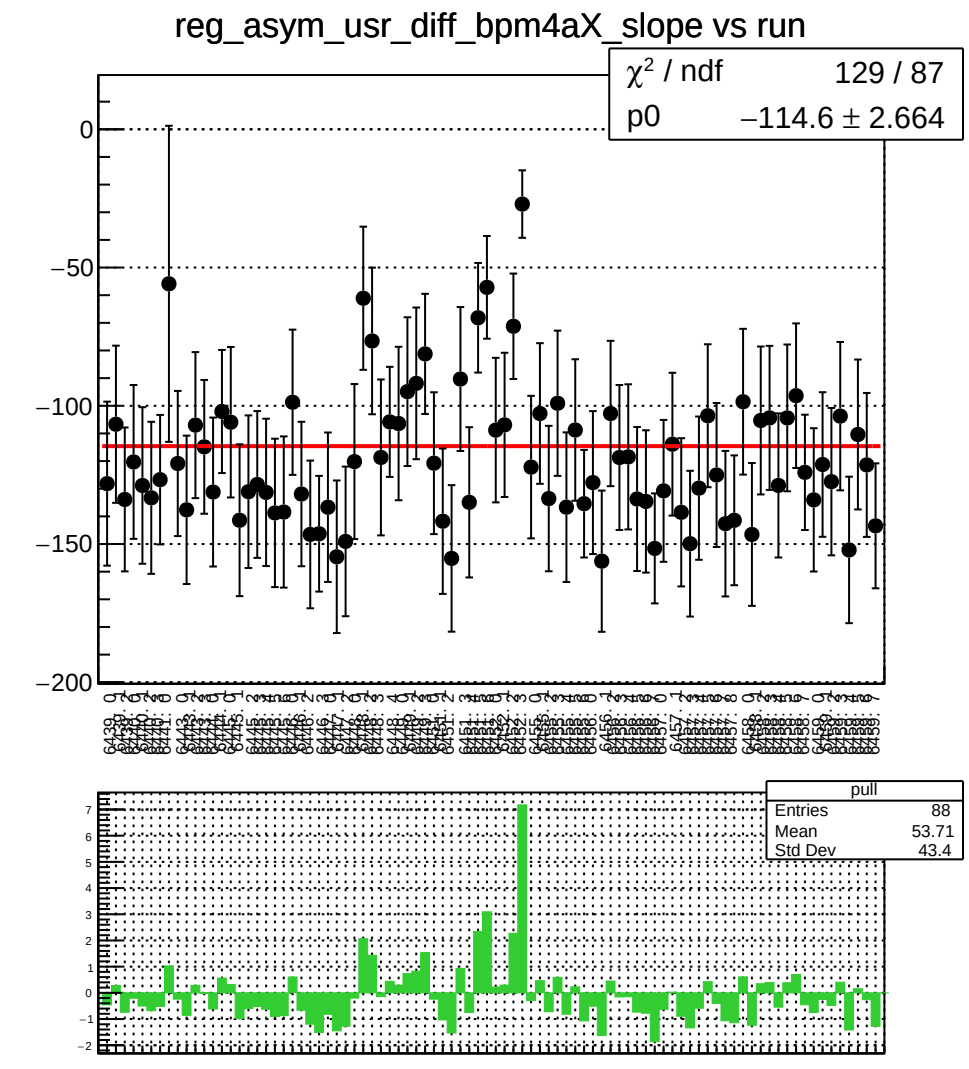

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 57.12 / 87
p0 90.39 ± 2.891
pull
Entries 88
Mean 38.16
Std Dev 55.1
pull1D
Entries 88
Mean 0.06009
Std Dev 0.8034

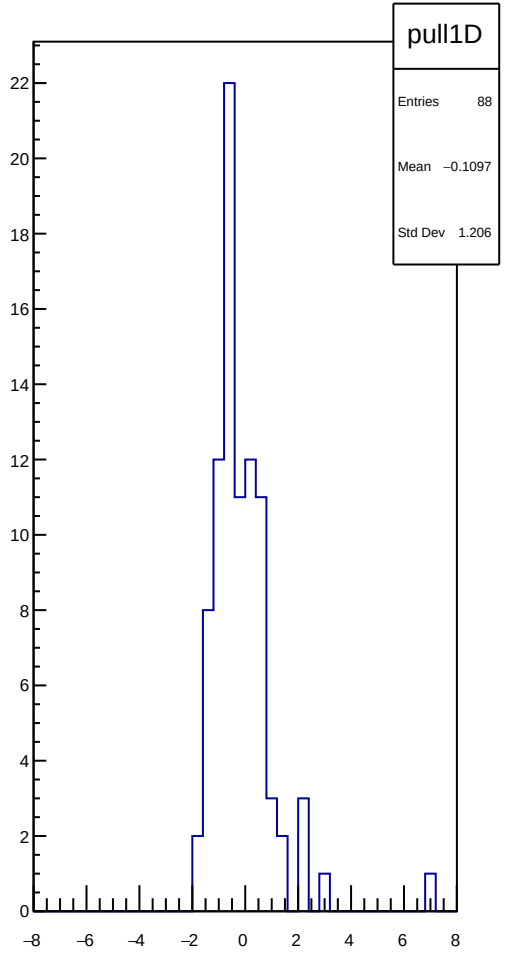

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 70.83 / 87
p0 7.455 ± 1.877
pull
Entries 88
Mean 1087
Std Dev 1053

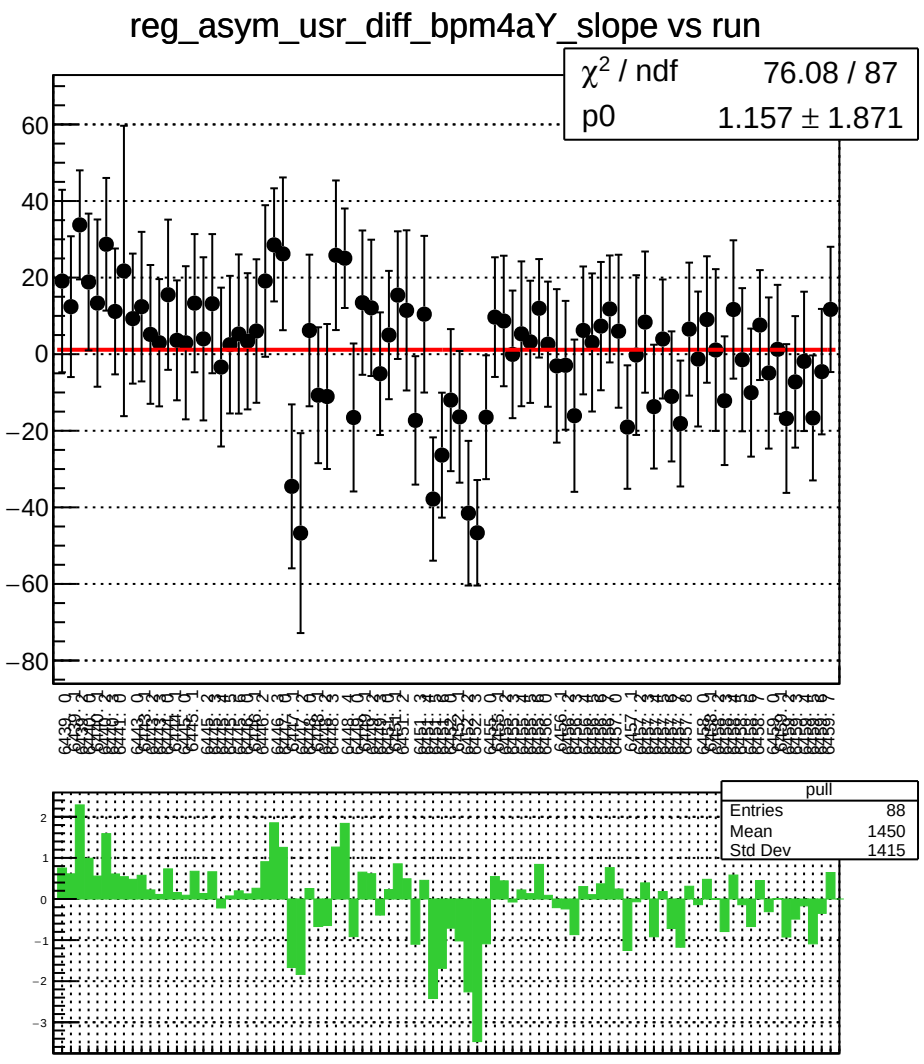

pull1D
Entries 88
Mean 0.008627
Std Dev 0.8971

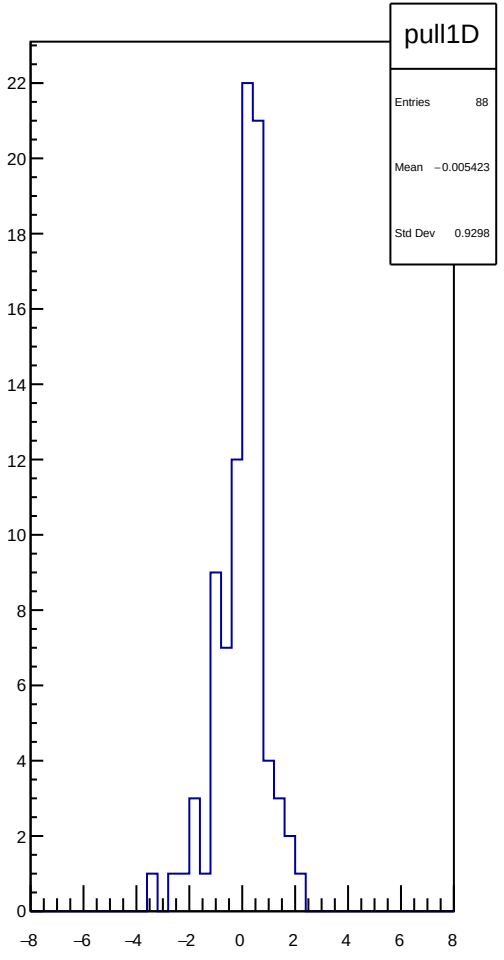

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 195.9 / 87
p0 −47.22 ± 0.07753
pull
Entries 88
Mean 331.6
Std Dev 296.9

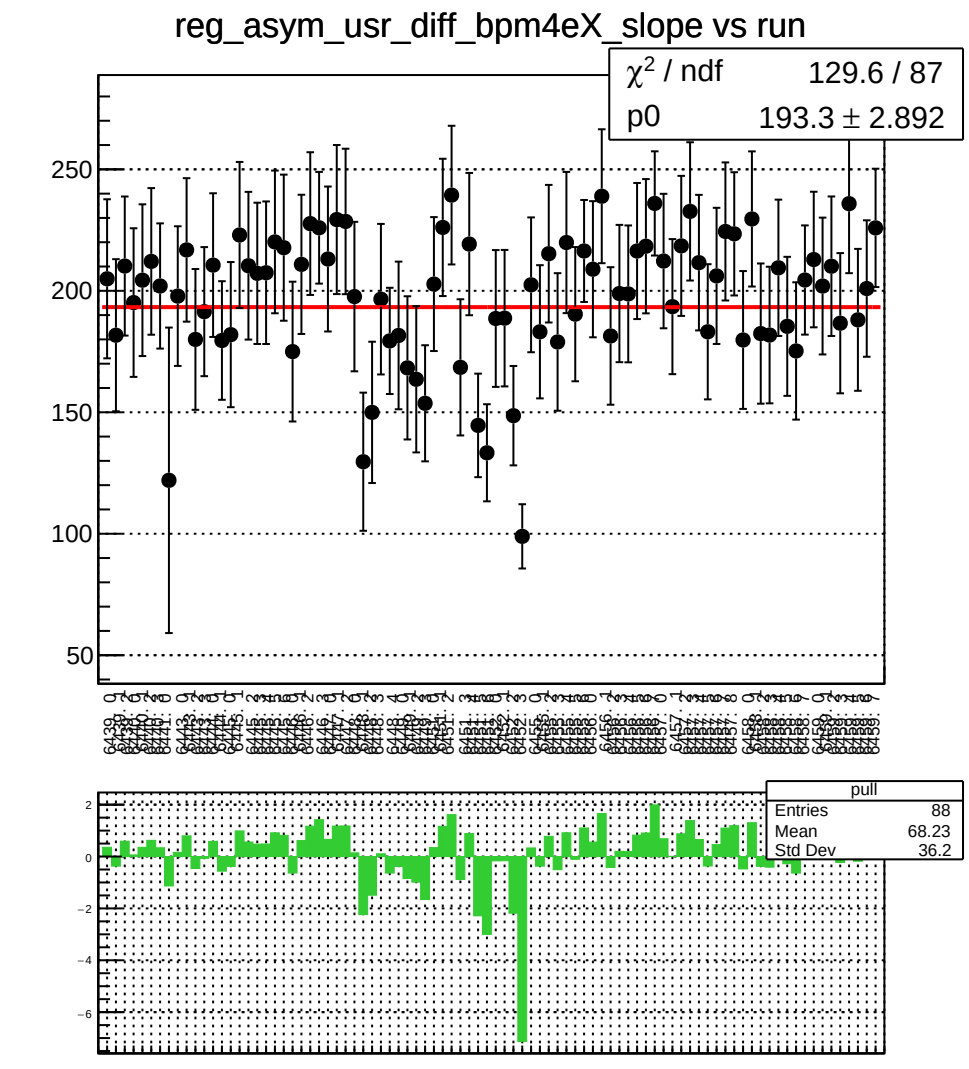

pull1D
Entries 88
Mean 0.02936
Std Dev 1.492

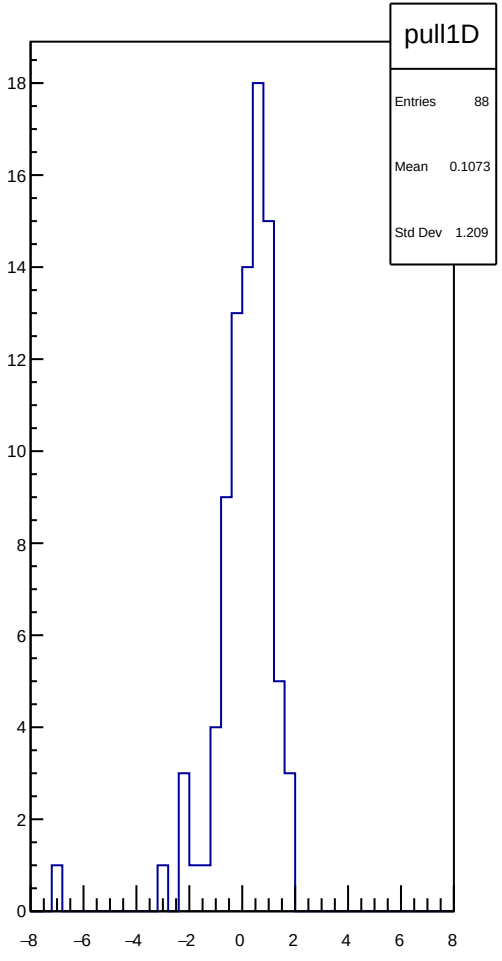

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 129 / 87
p0 −114.6 ± 2.664
pull
Entries 88
Mean 53.71
Std Dev 43.4

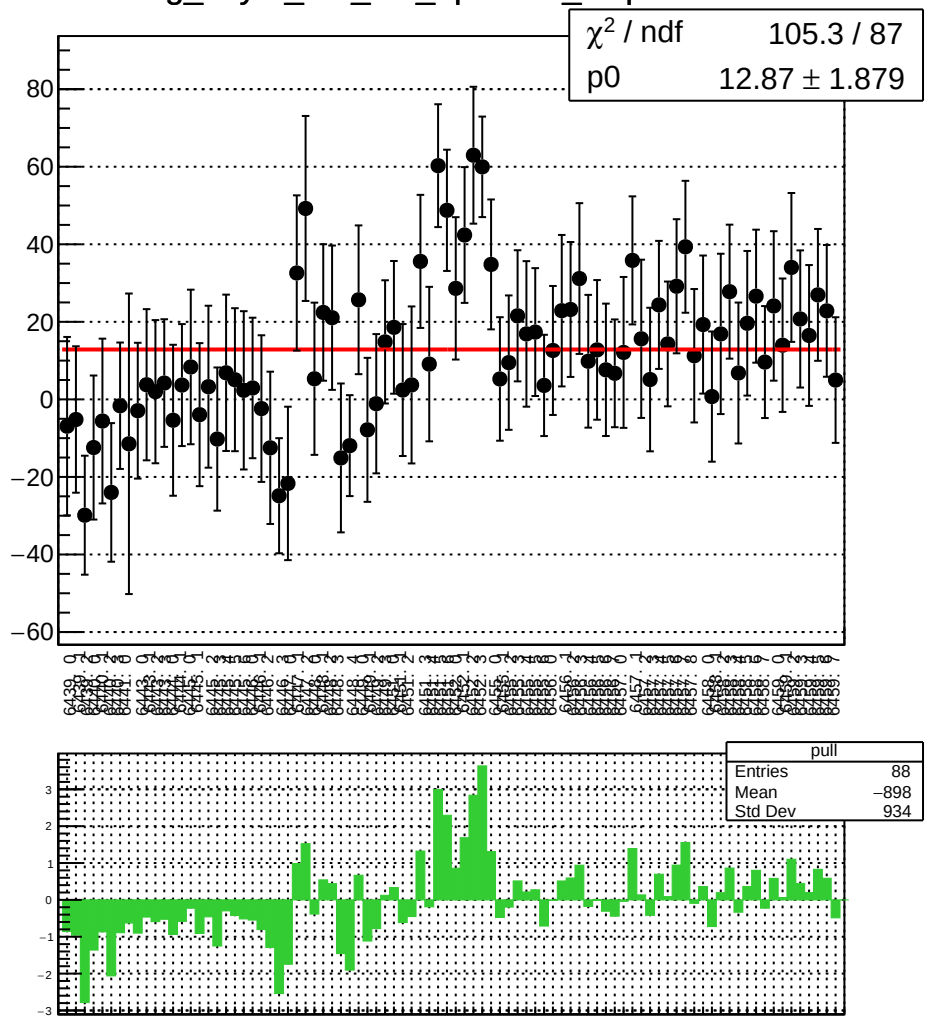

pull1D
Entries 88
Mean −0.1097
Std Dev 1.206

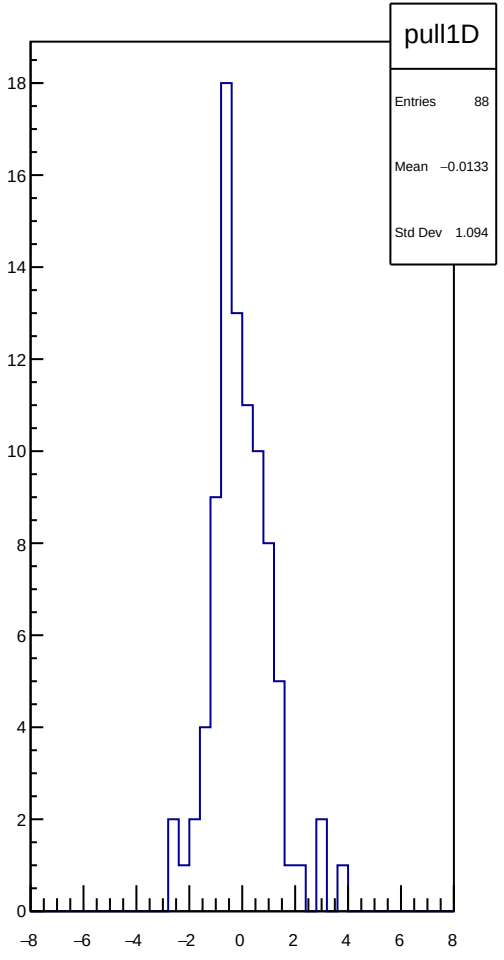

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 76.08 / 87
p0 1.157 ± 1.871
pull
Entries 88
Mean 1450
Std Dev 1415

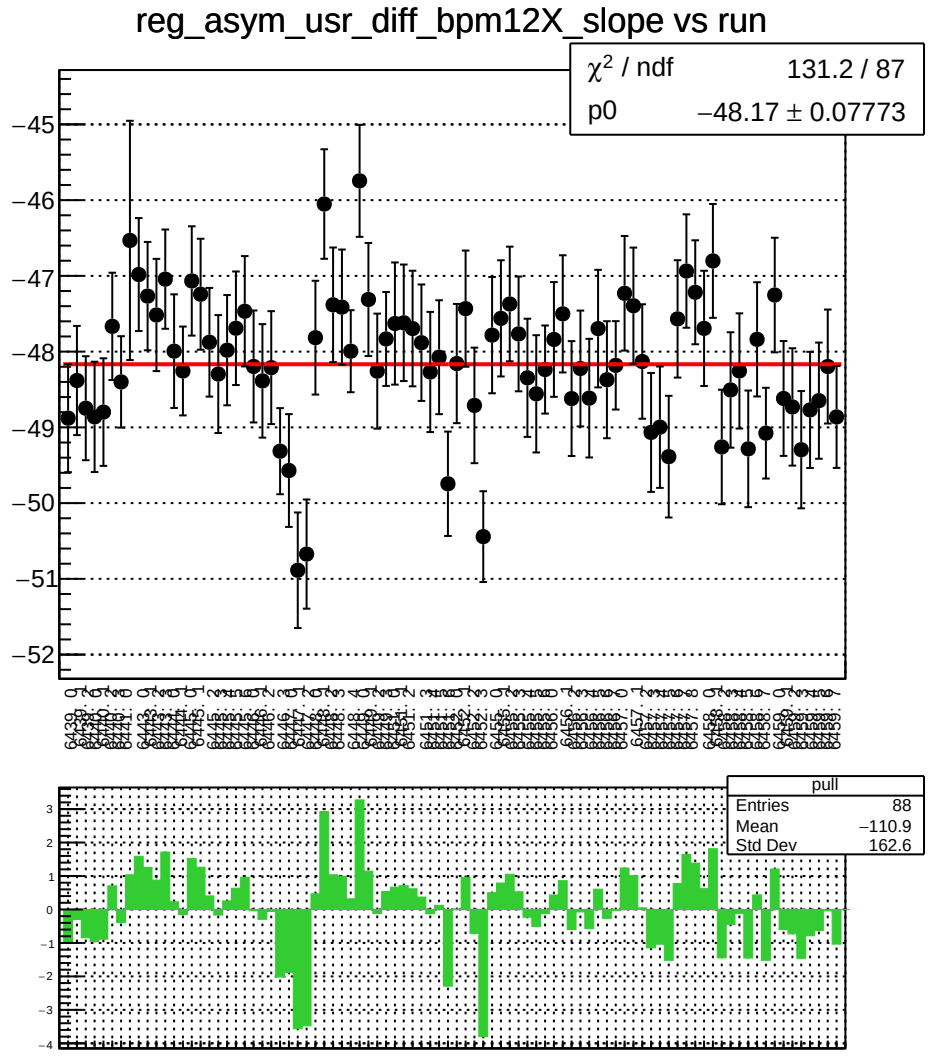

pull1D
Entries 88
Mean −0.005423
Std Dev 0.9298

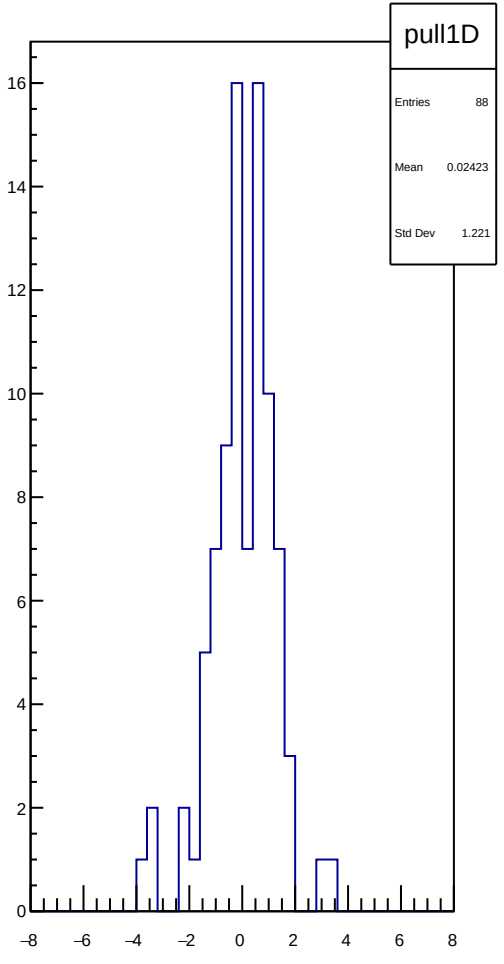

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 129.6 / 87
p0 193.3 ± 2.892
250
200
150
100
50
pull
Entries 88
Mean 68.23
Std Dev 36.2
2
0
−2
−4
−6

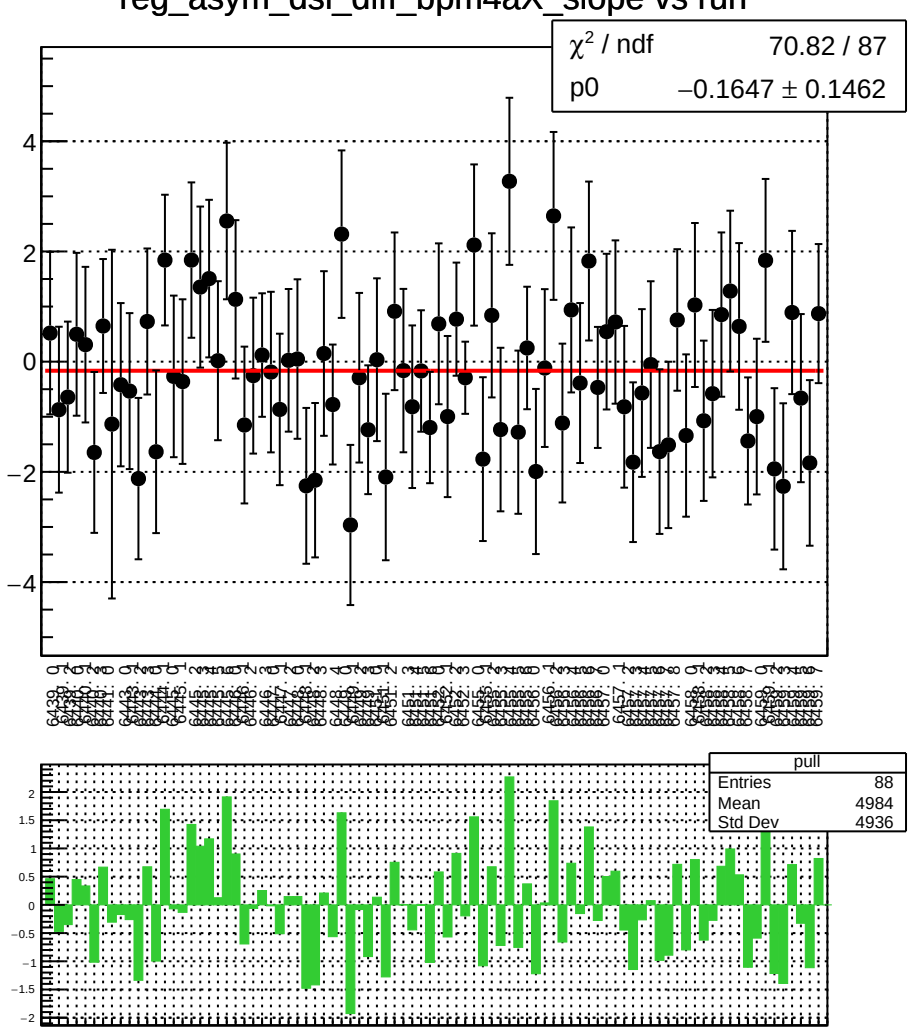

pull1D
Entries 88
Mean 0.1073
Std Dev 1.209
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

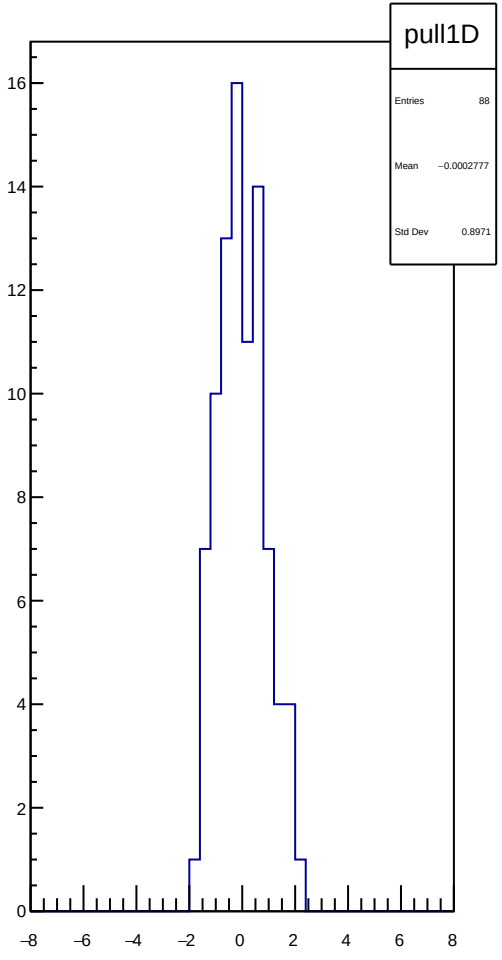

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 105.3 / 87
p0 12.87 ± 1.879
pull
Entries 88
Mean −898
Std Dev 934

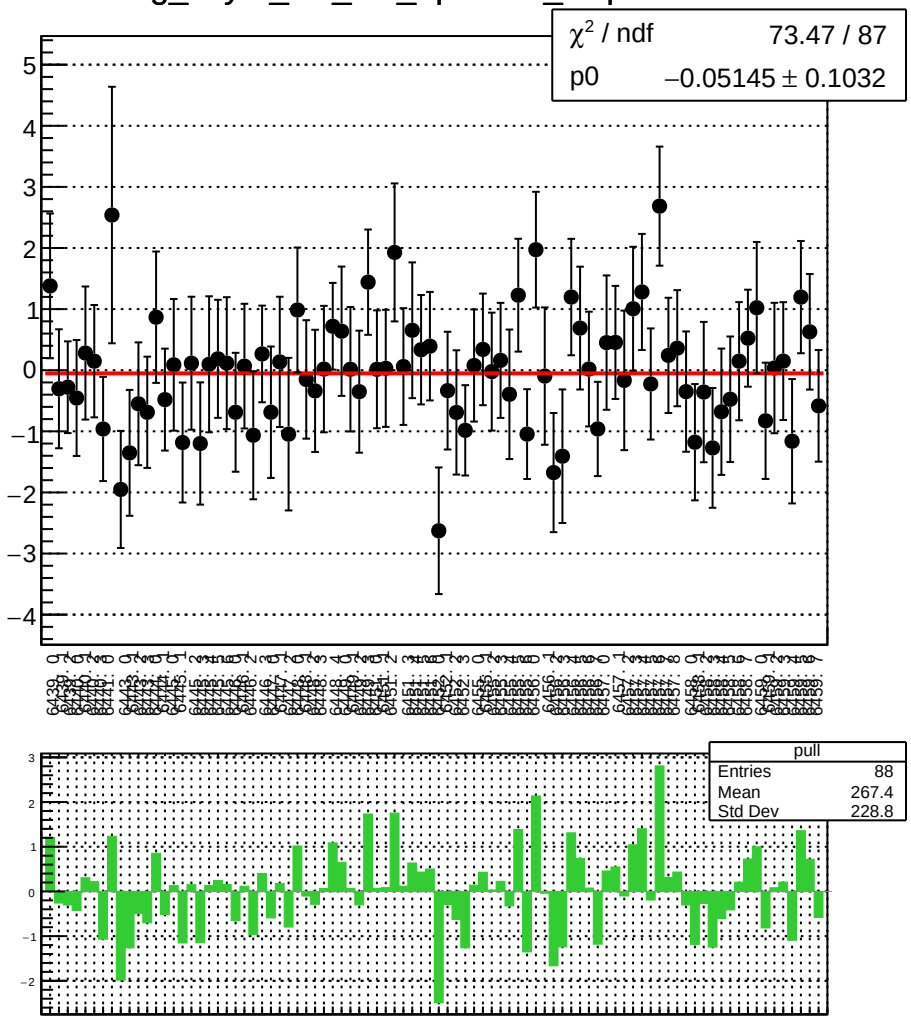

pull1D
Entries 88
Mean −0.0133
Std Dev 1.094

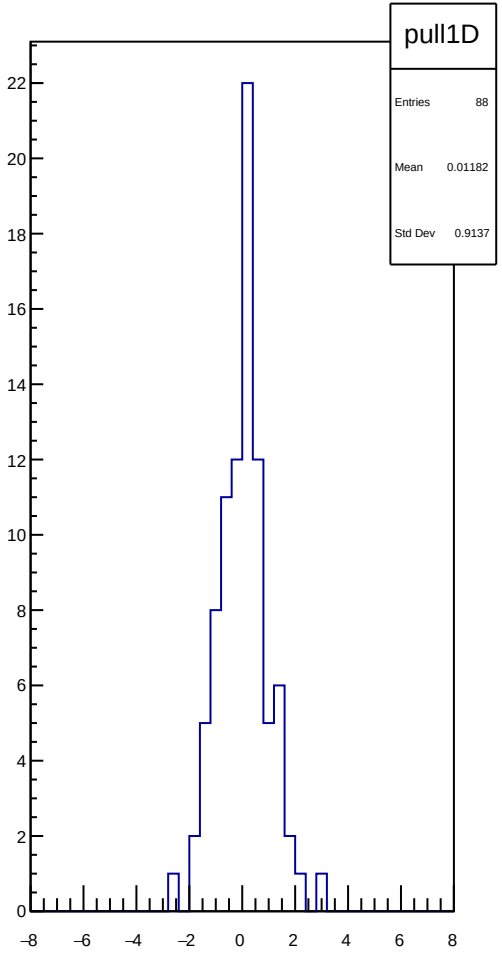

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 131.2 / 87
p0 −48.17 ± 0.07773
pull
Entries 88
Mean −110.9
Std Dev 162.6

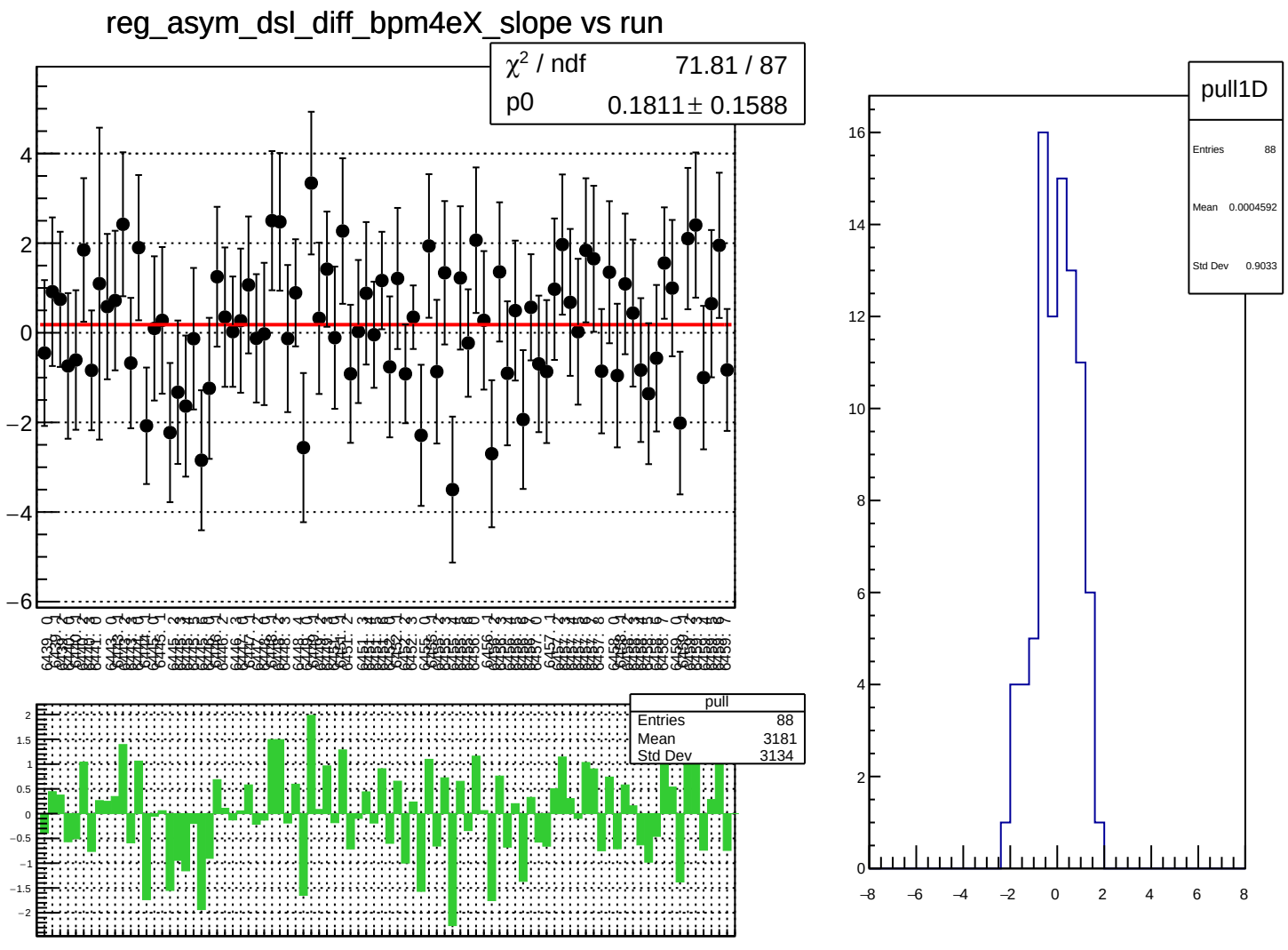

pull1D
Entries 88
Mean 0.02423
Std Dev 1.221

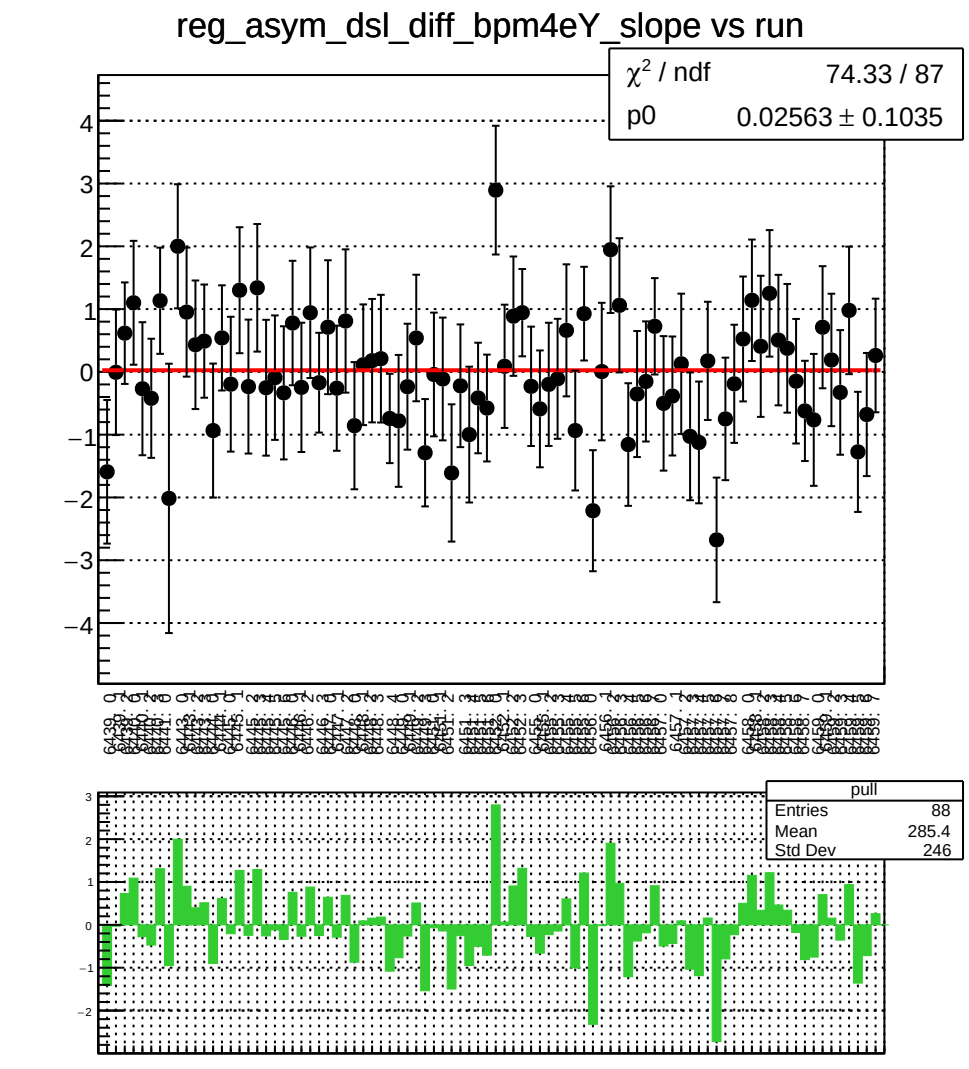

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 70.82 / 87
p0 −0.1647 ± 0.1462
pull
Entries 88
Mean 4984
Std Dev 4936

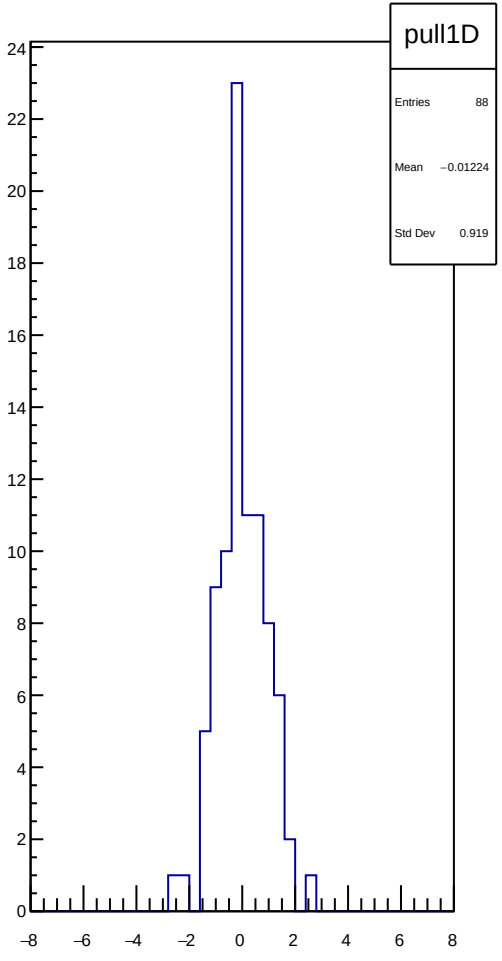

pull1D
Entries 88
Mean −0.0002777
Std Dev 0.8971

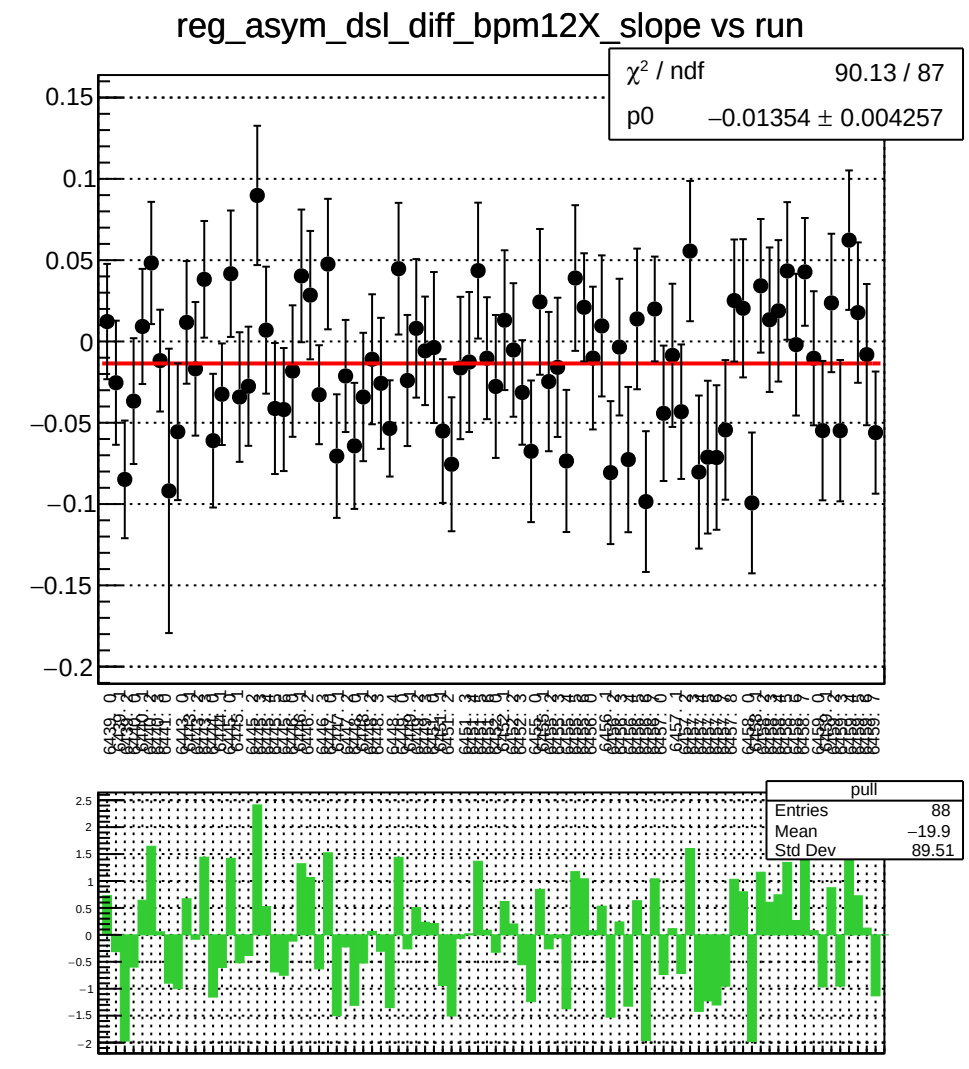

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 73.47 / 87
p0 −0.05145 ± 0.1032
pull
Entries 88
Mean 267.4
Std Dev 228.8

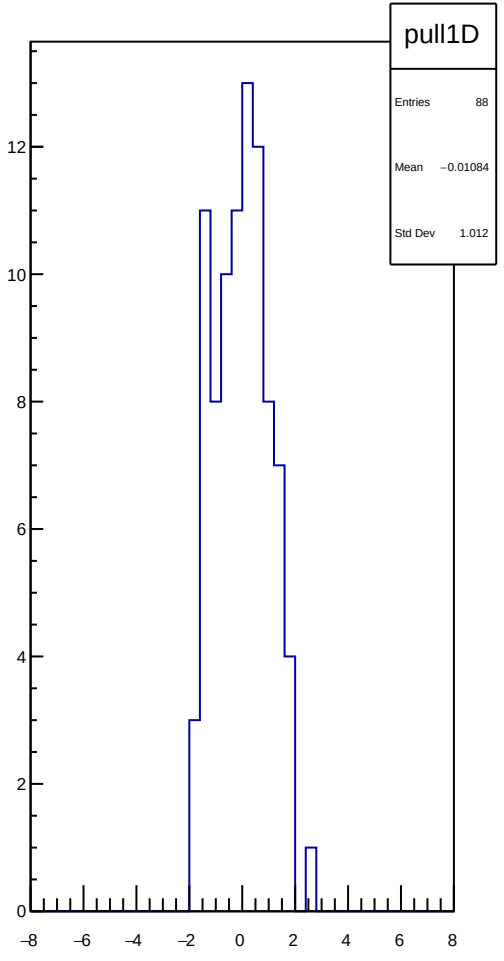

pull1D
Entries 88
Mean 0.01182
Std Dev 0.9137

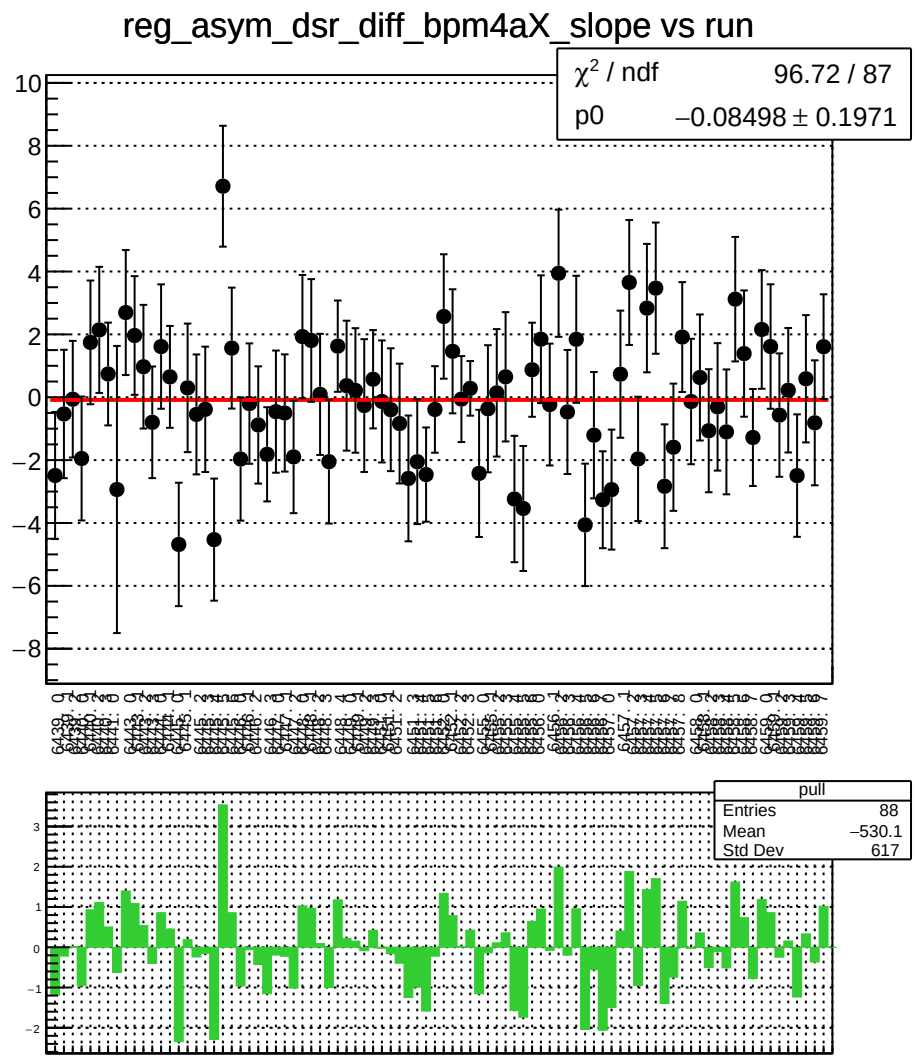

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 71.81 / 87
p0 0.1811 ± 0.1588
pull
Entries 88
Mean 3181
Std Dev 3134
pull1D
Entries 88
Mean 0.0004592
Std Dev 0.9033

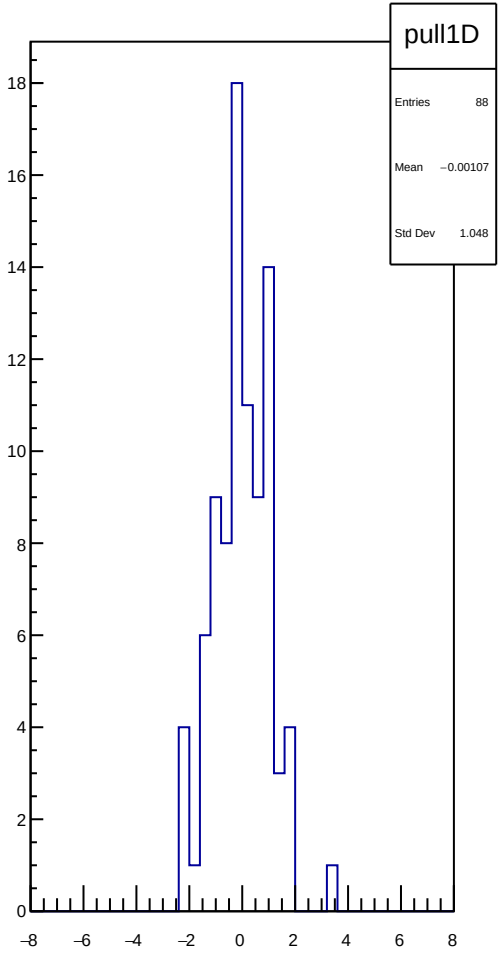

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 74.33 / 87
p0 0.02563 ± 0.1035
pull
Entries 88
Mean 285.4
Std Dev 246

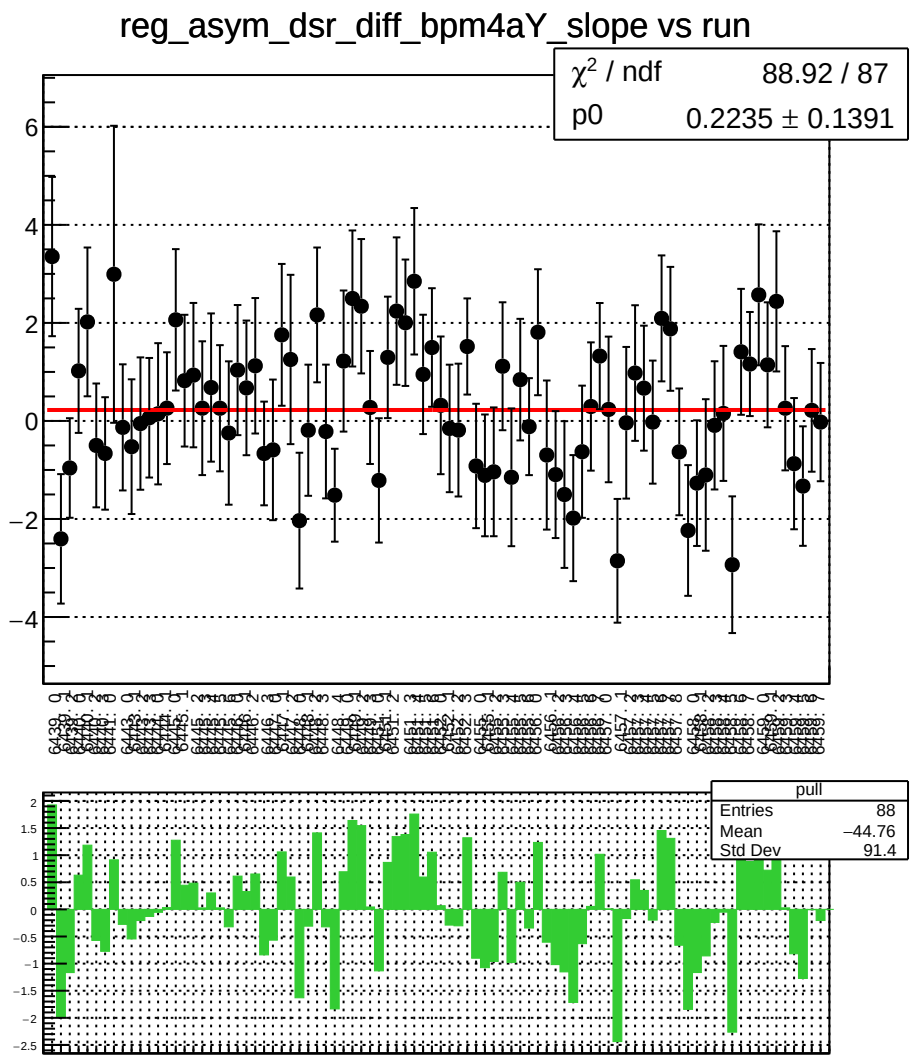

pull1D
Entries 88
Mean −0.01224
Std Dev 0.919

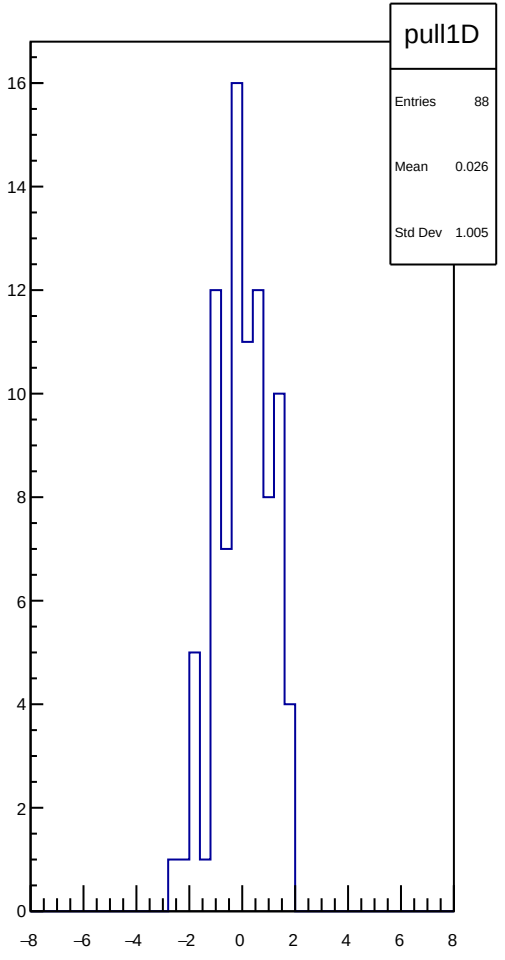

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 90.13 / 87
p0 −0.01354 ± 0.004257
pull
Entries 88
Mean −19.9
Std Dev 89.51

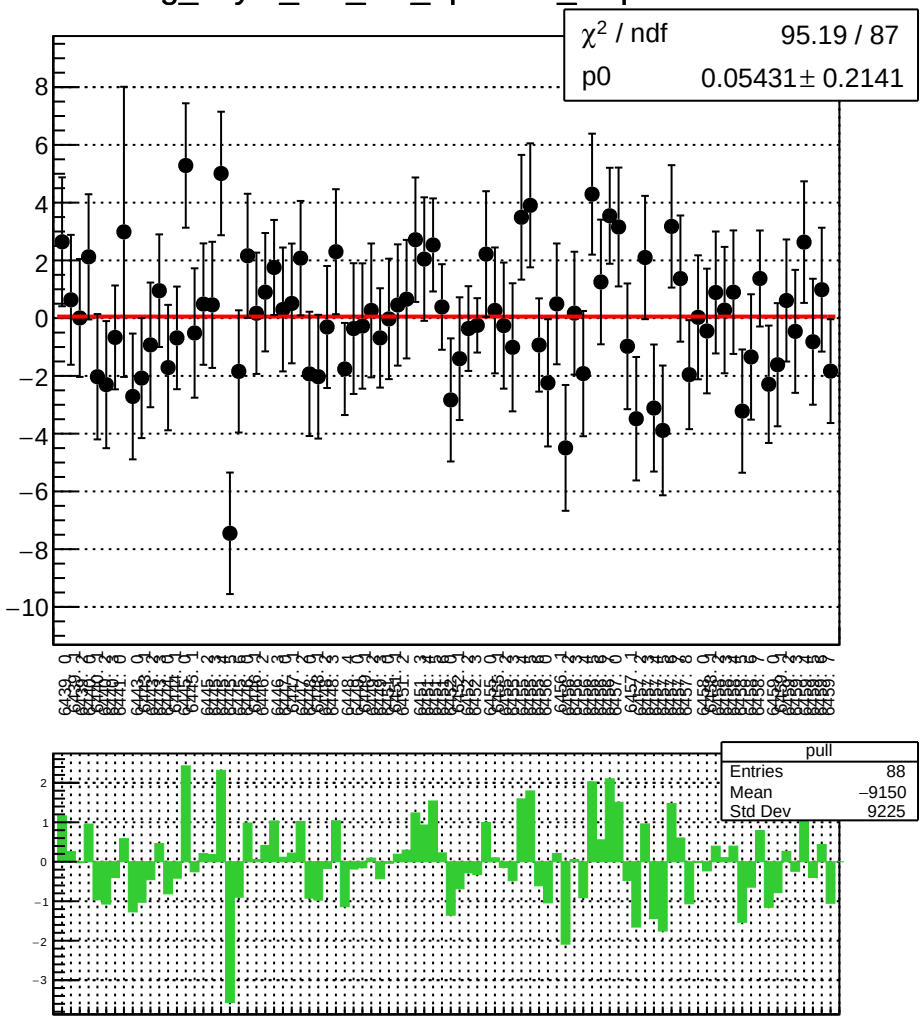

pull1D
Entries 88
Mean −0.01084
Std Dev 1.012

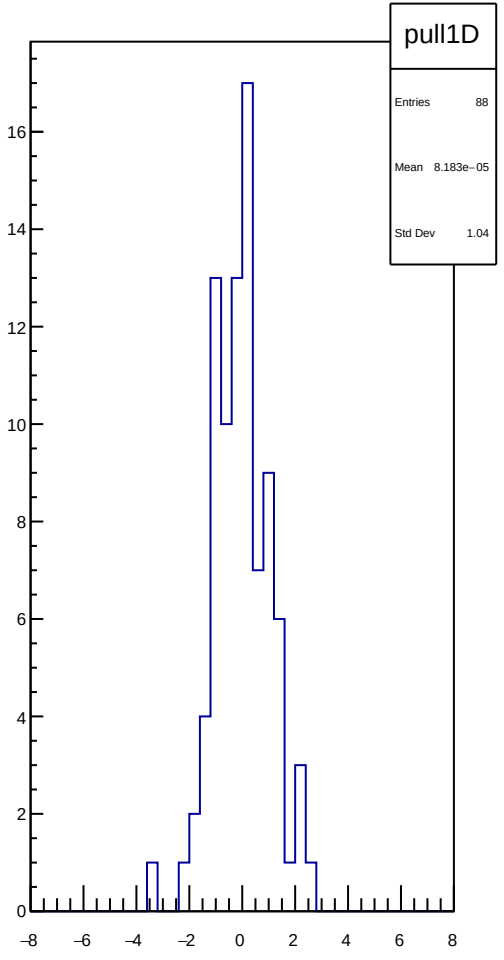

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 96.72 / 87
p0 −0.08498 ± 0.1971
pull
Entries 88
Mean −530.1
Std Dev 617

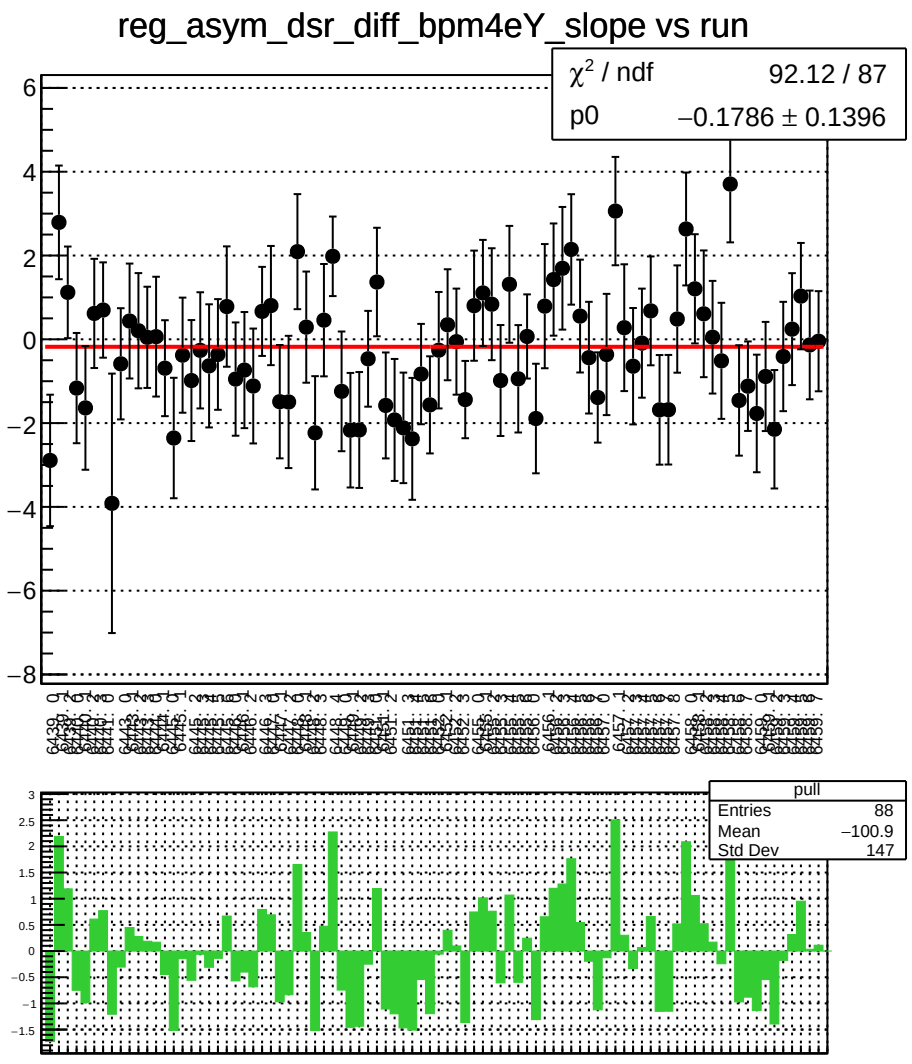

pull1D
Entries 88
Mean −0.00107
Std Dev 1.048

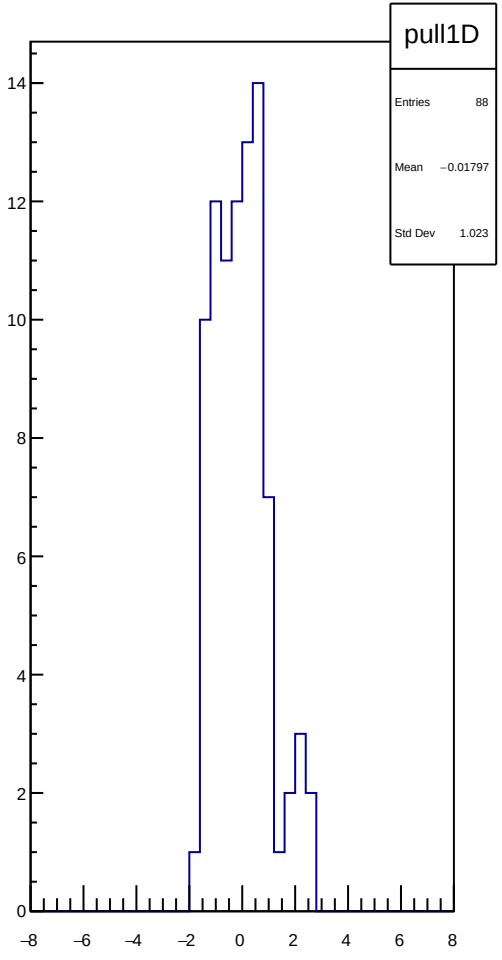

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 88.92 / 87
p0 0.2235 ± 0.1391
pull
Entries 88
Mean −44.76
Std Dev 91.4

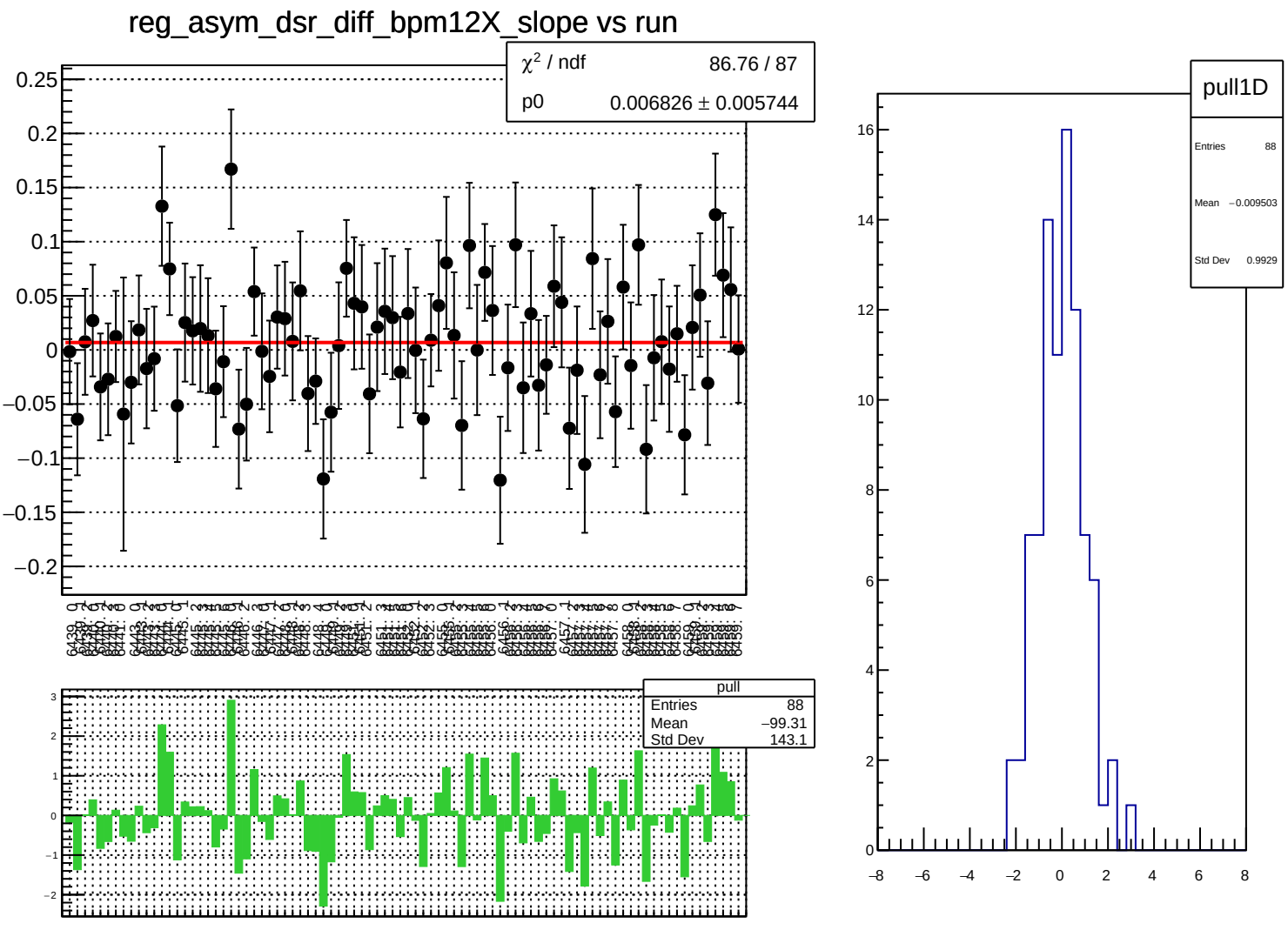

pull1D
Entries 88
Mean 0.026
Std Dev 1.005

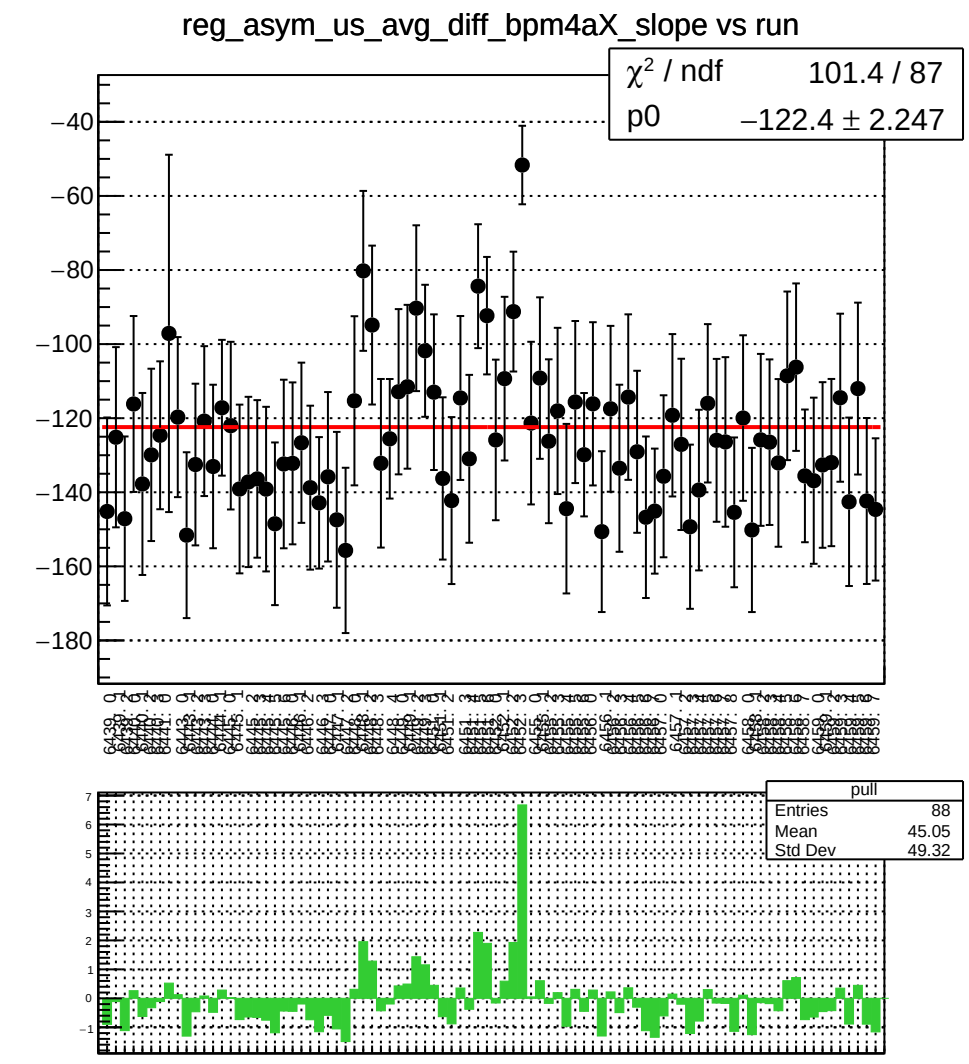

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 95.19 / 87
p0 0.05431 ± 0.2141
pull
Entries 88
Mean −9150
Std Dev 9225

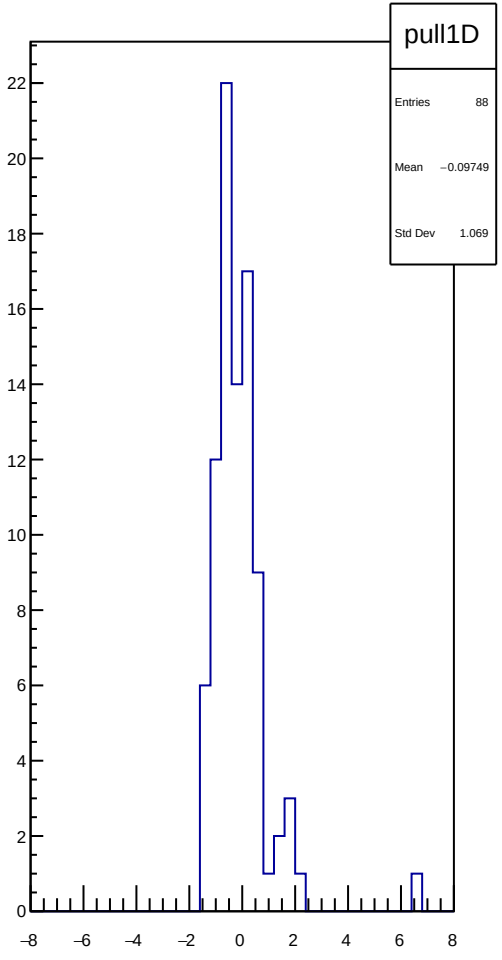

pull1D
Entries 88
Mean 8.183e−05
Std Dev 1.04

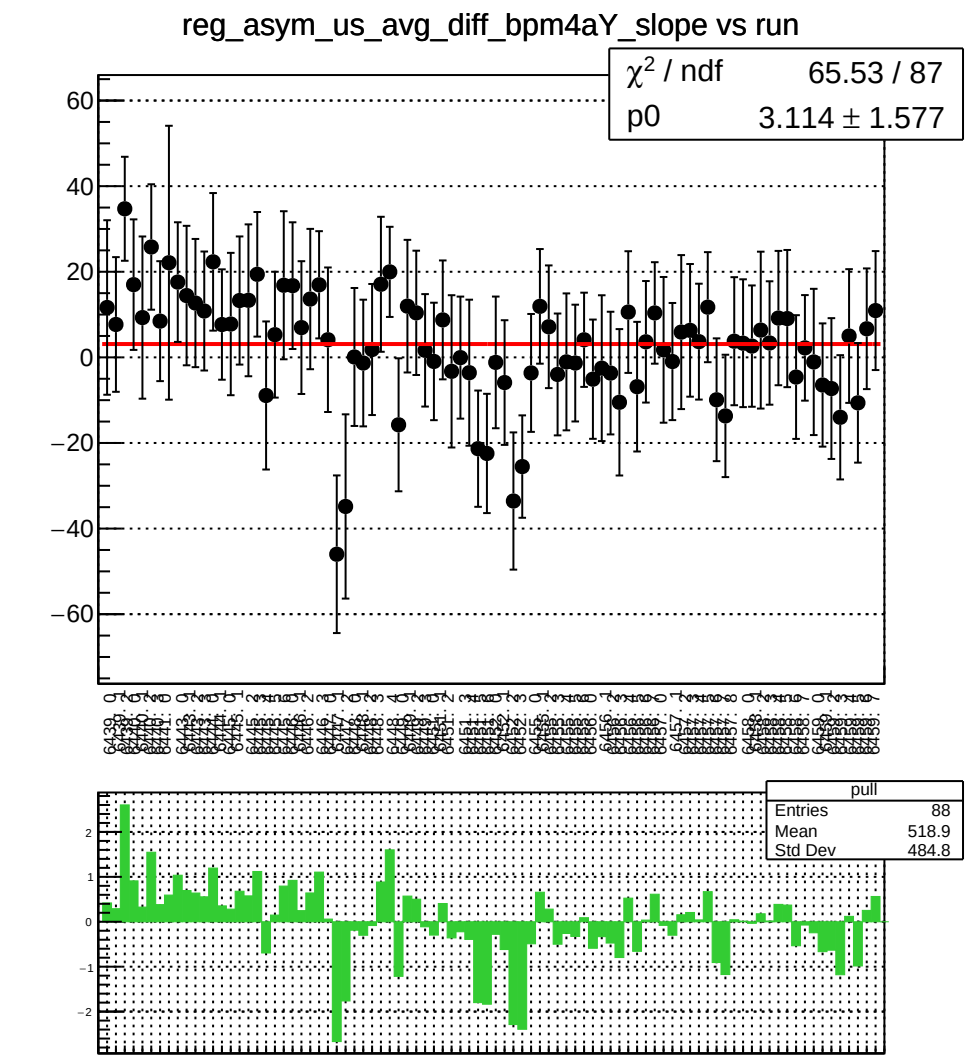

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 92.12 / 87
p0 −0.1786 ± 0.1396
pull
Entries 88
Mean −100.9
Std Dev 147

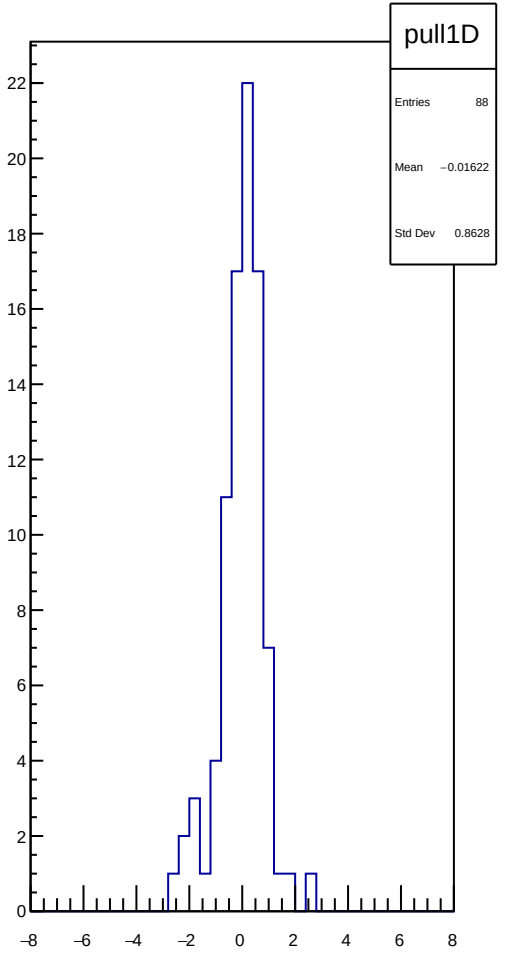

pull1D
Entries 88
Mean −0.01797
Std Dev 1.023

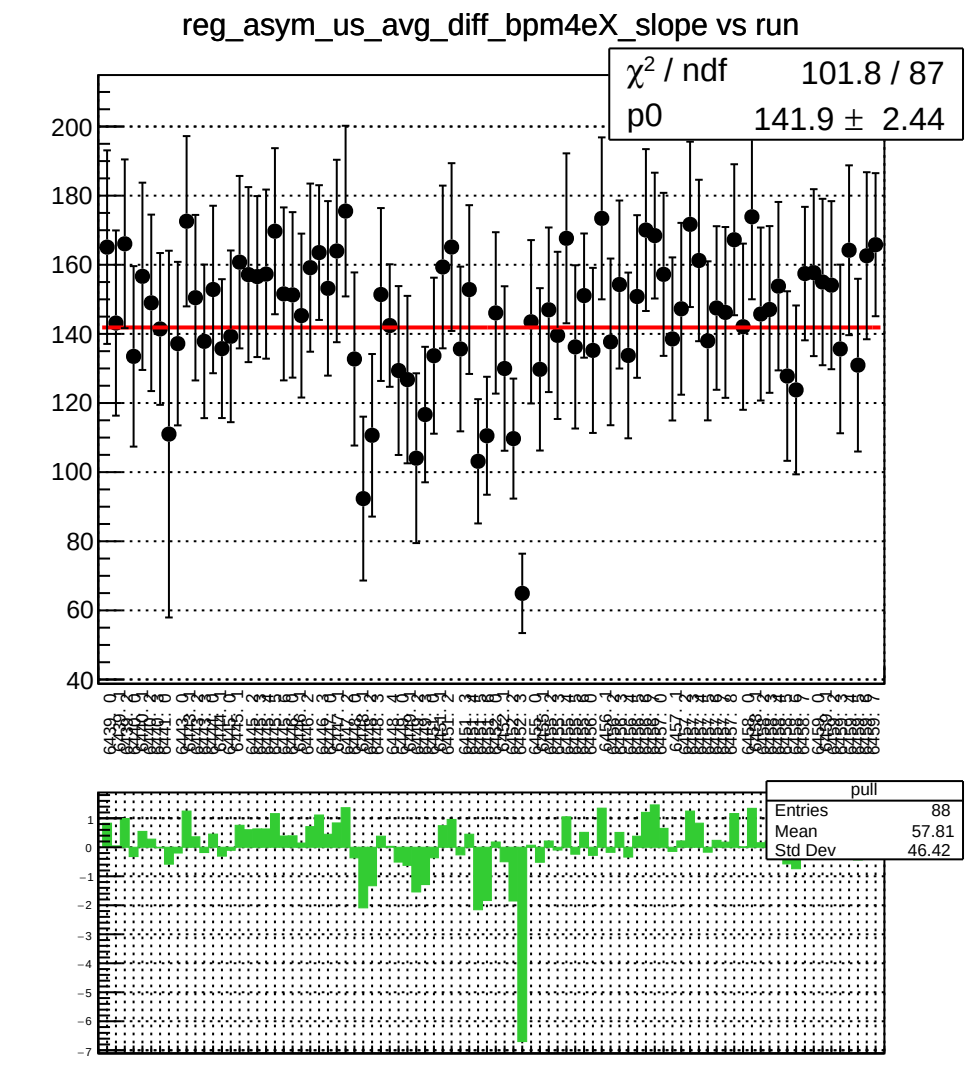

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 86.76 / 87
p0 0.006826 ± 0.005744
pull
Entries 88
Mean −99.31
Std Dev 143.1
pull1D
Entries 88
Mean −0.009503
Std Dev 0.9929

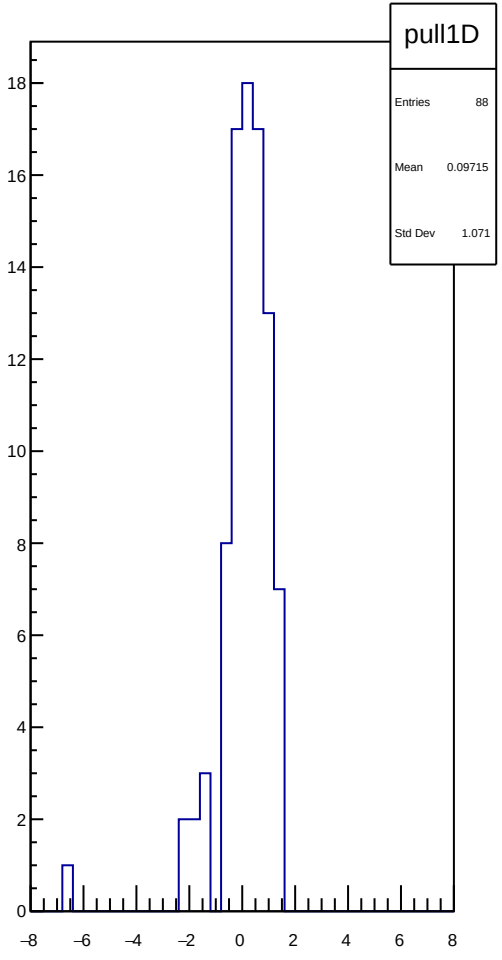

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 101.4 / 87
p0 −122.4 ± 2.247
pull
Entries 88
Mean 45.05
Std Dev 49.32

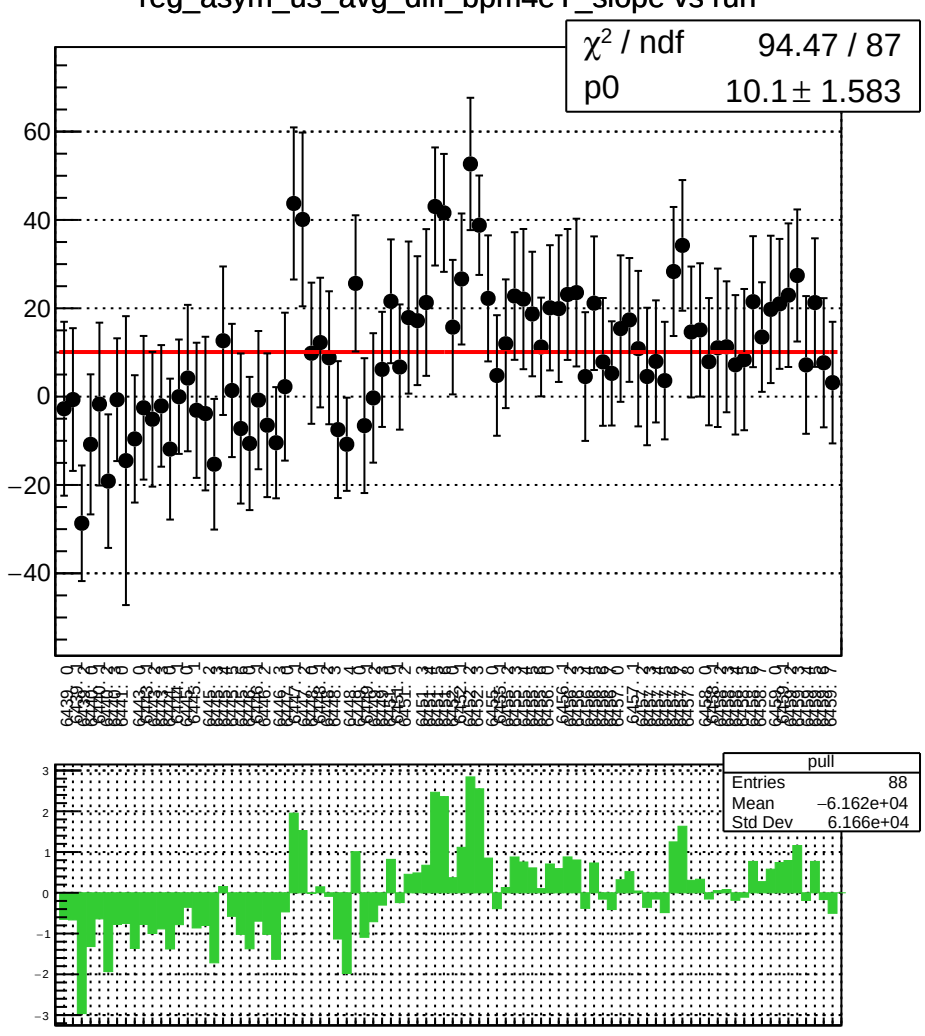

pull1D
Entries 88
Mean −0.09749
Std Dev 1.069

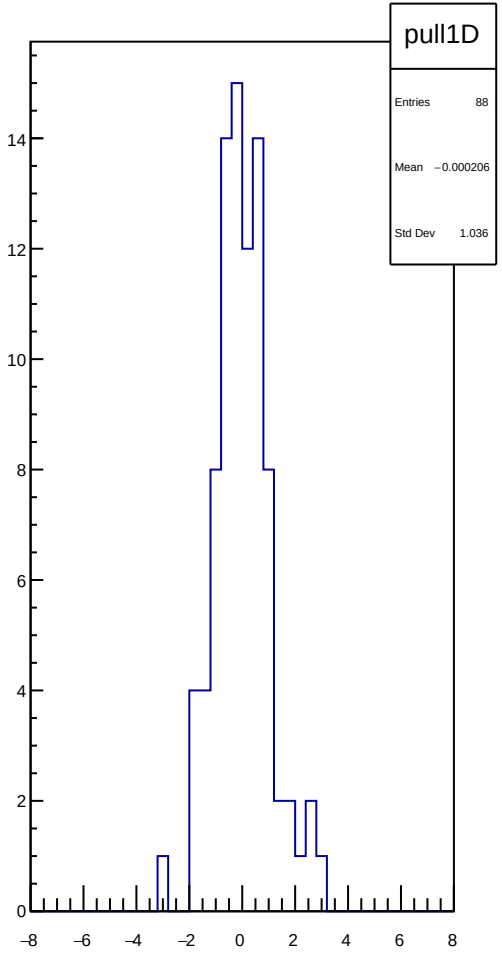

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 65.53 / 87
p0 3.114 ± 1.577
pull
Entries 88
Mean 518.9
Std Dev 484.8

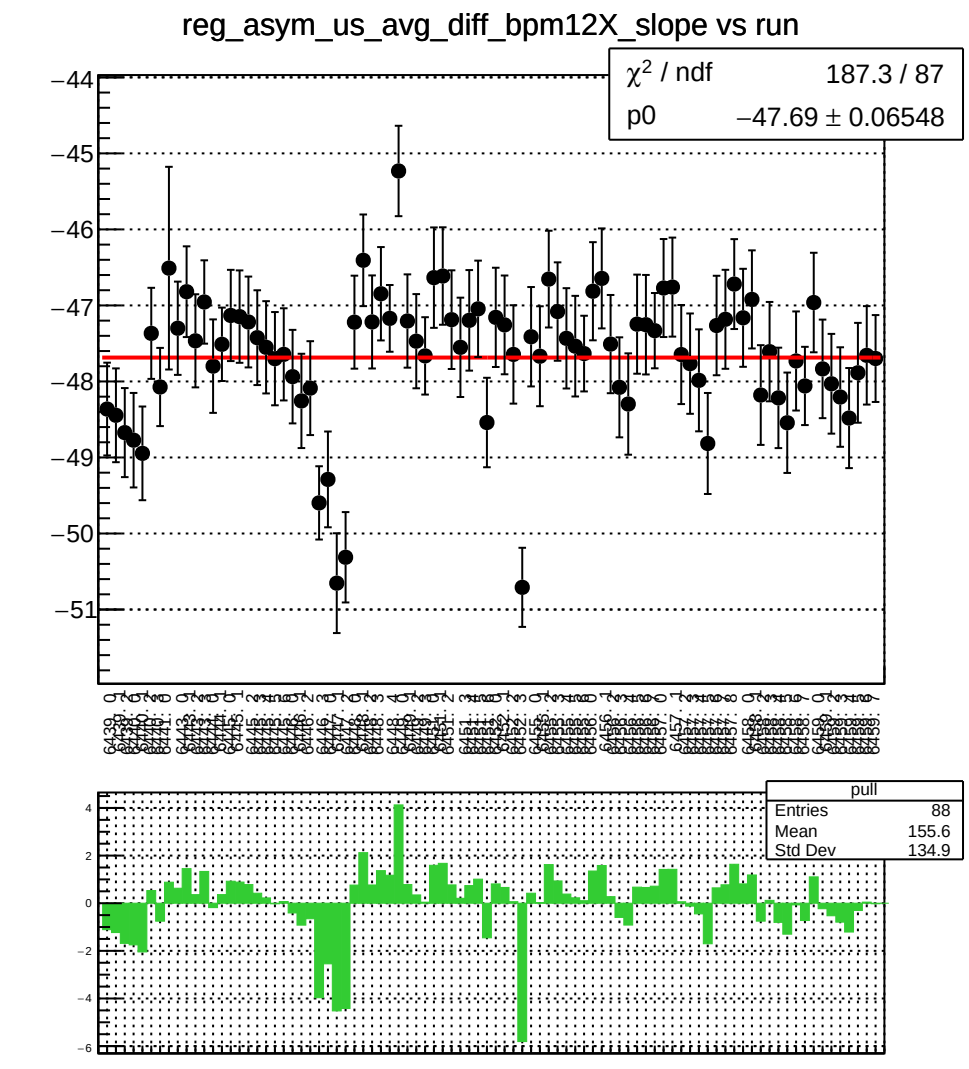

pull1D
Entries 88
Mean −0.01622
Std Dev 0.8628

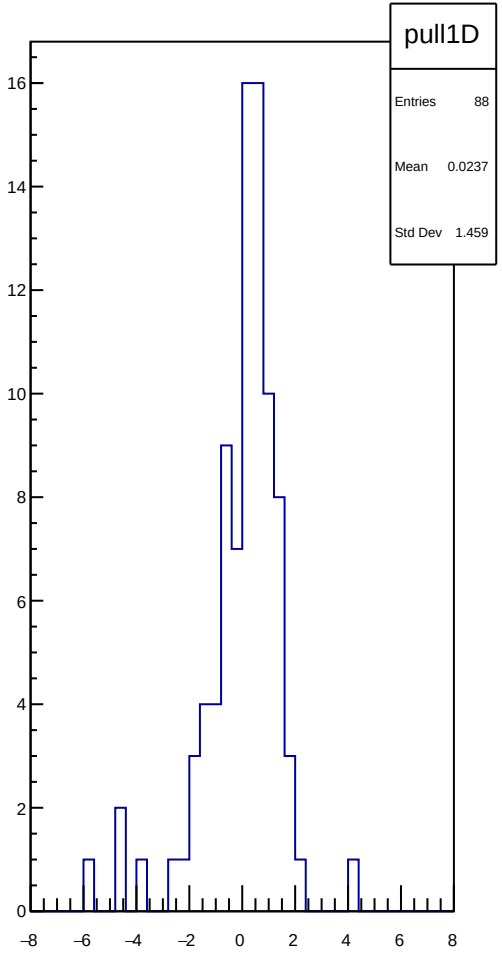

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 101.8 / 87
p0 141.9 ± 2.44
pull
Entries 88
Mean 57.81
Std Dev 46.42

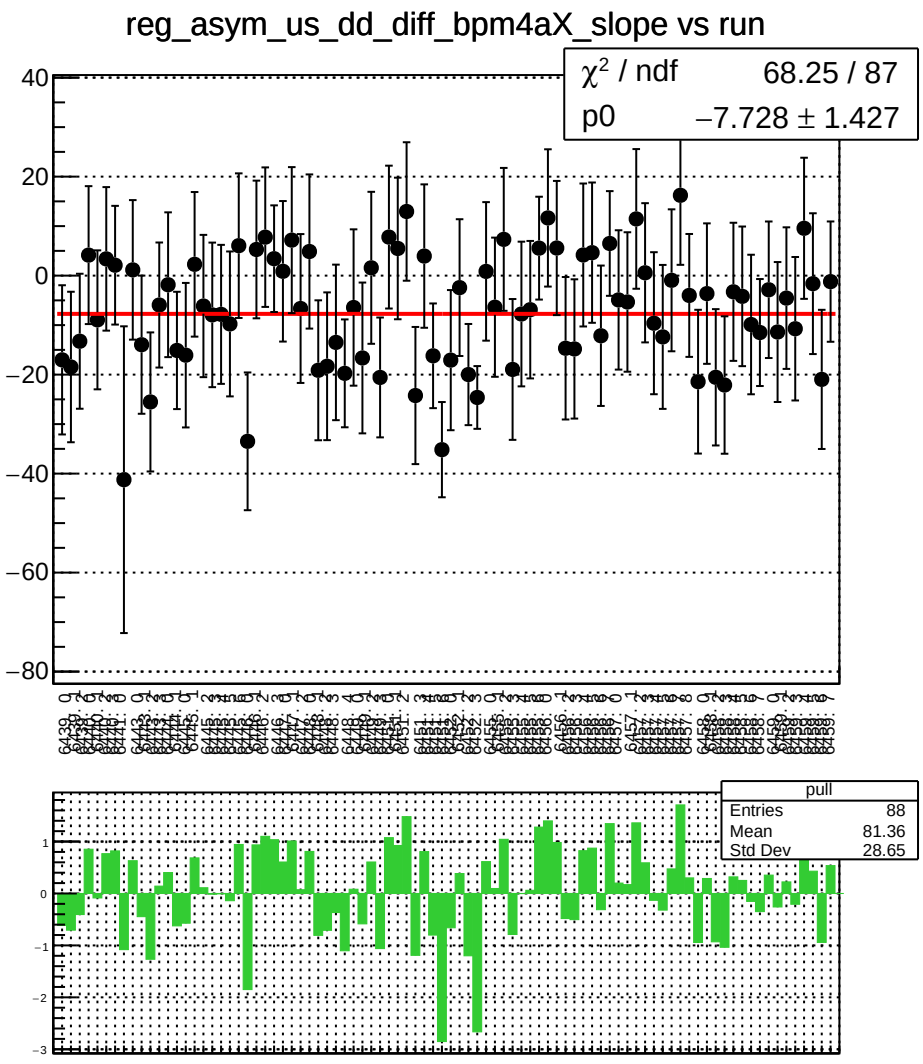

pull1D
Entries 88
Mean 0.09715
Std Dev 1.071

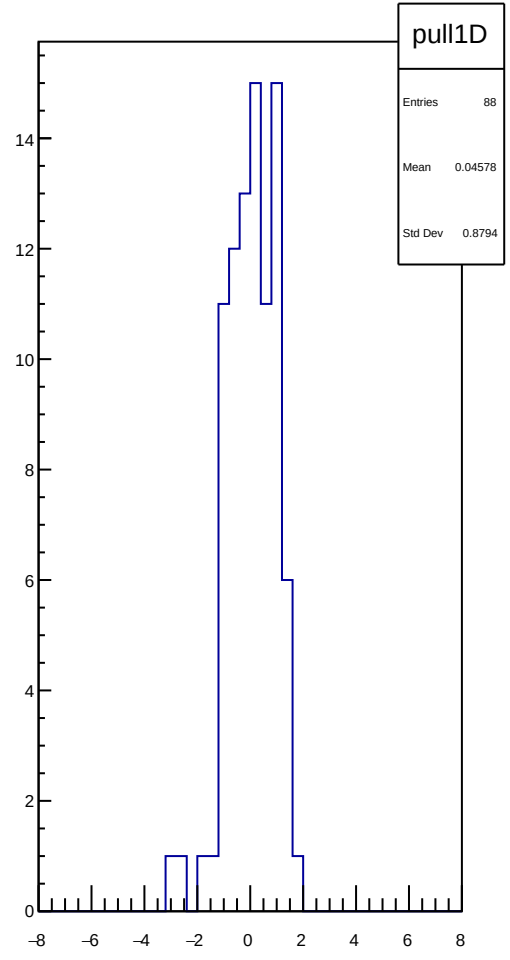

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 94.47 / 87
p0 10.1 ± 1.583
pull
Entries 88
Mean −6.162e+04
Std Dev 6.166e+04

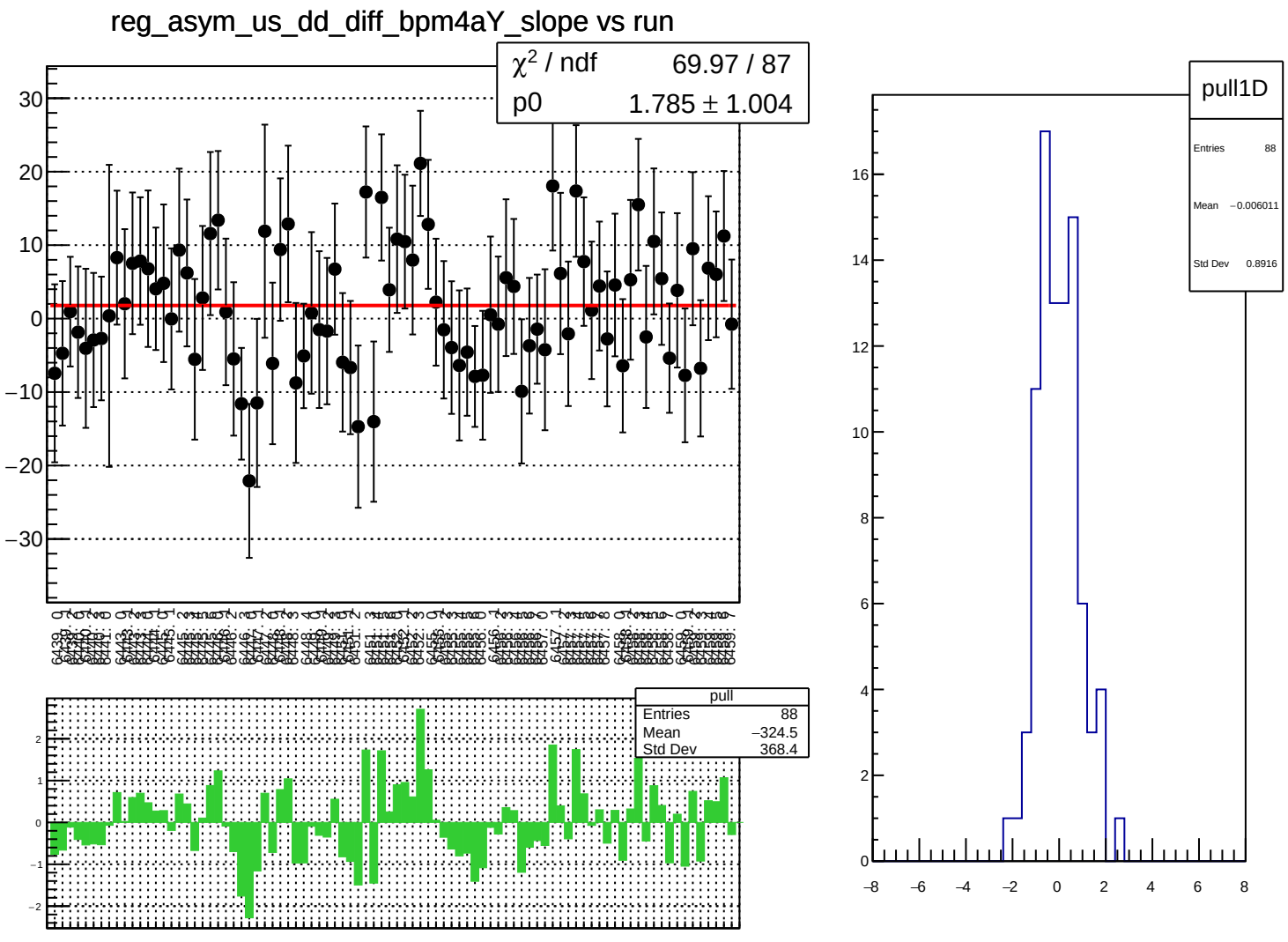

pull1D
Entries 88
Mean −0.000206
Std Dev 1.036

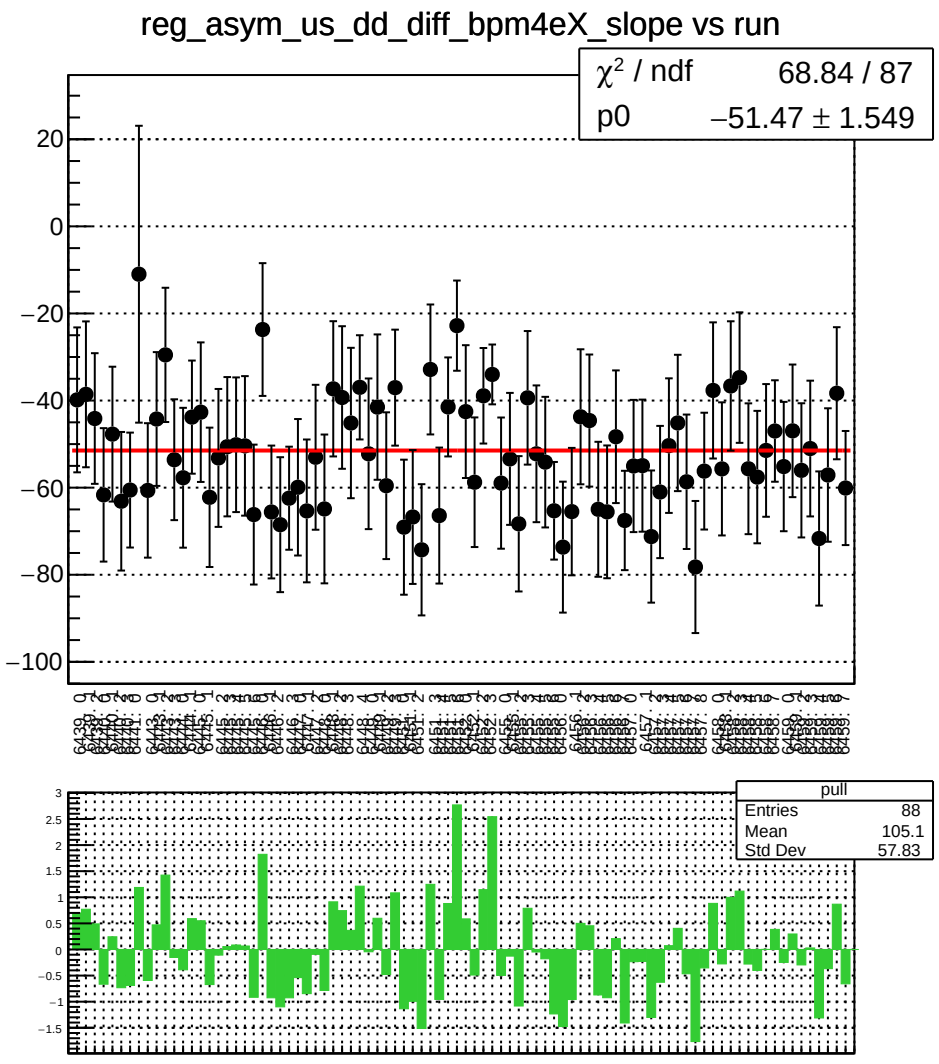

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 187.3 / 87
p0 −47.69 ± 0.06548
pull
Entries 88
Mean 155.6
Std Dev 134.9

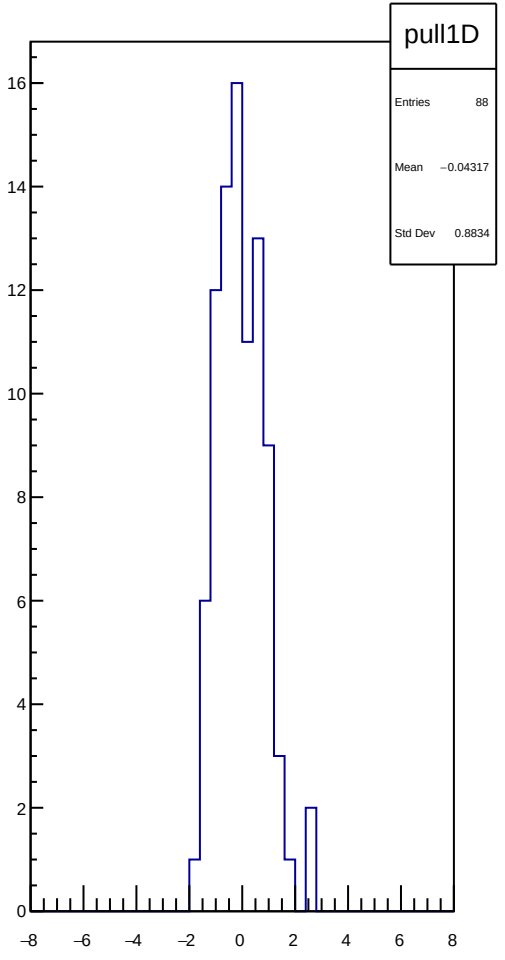

pull1D
Entries 88
Mean 0.0237
Std Dev 1.459

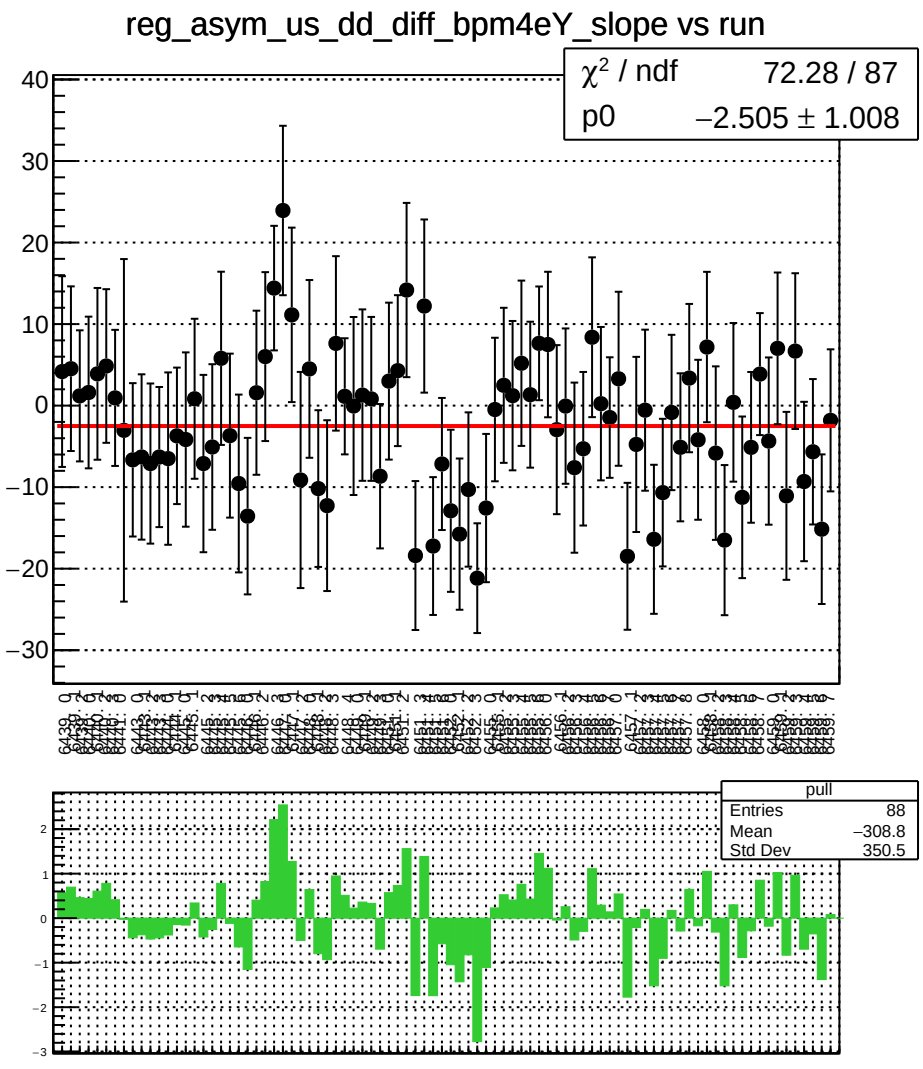

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 68.25 / 87
p0 −7.728 ± 1.427
pull
Entries 88
Mean 81.36
Std Dev 28.65

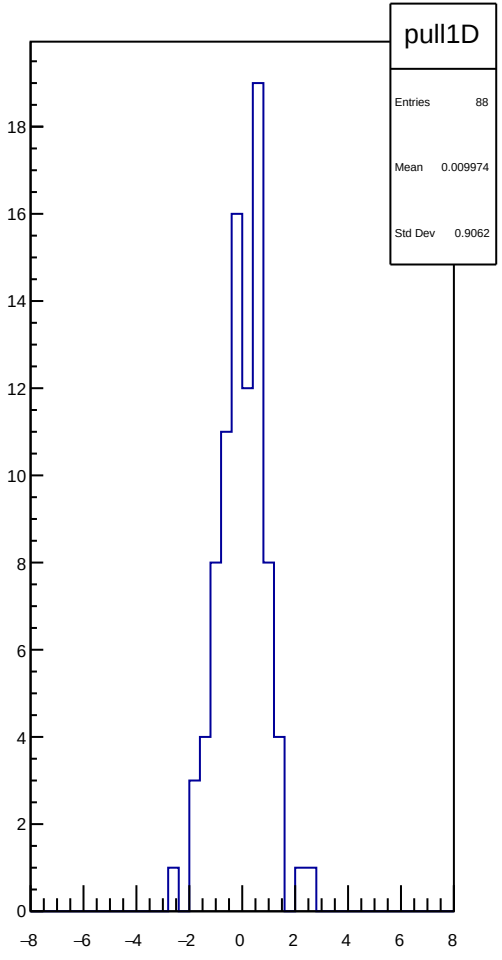

pull1D
Entries 88
Mean 0.04578
Std Dev 0.8794

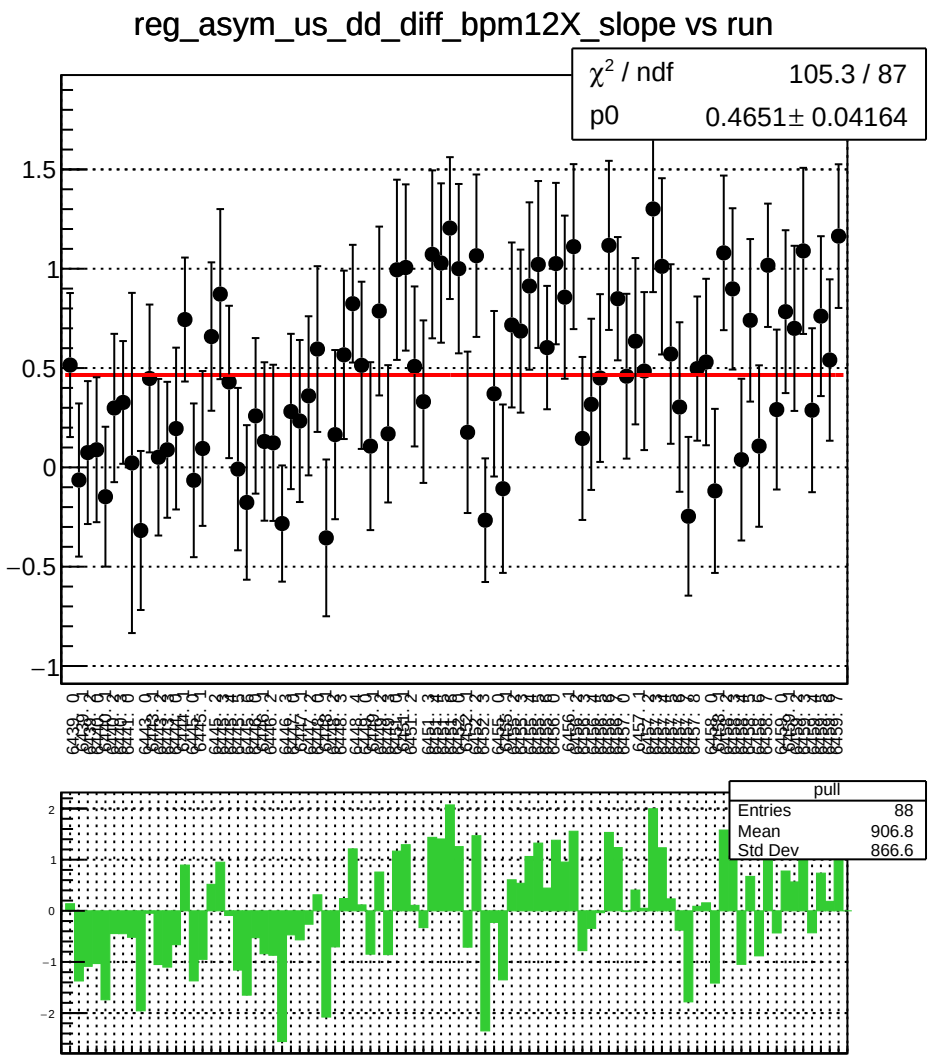

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.97 / 87
p0 1.785 ± 1.004
pull
Entries 88
Mean −324.5
Std Dev 368.4
pull1D
Entries 88
Mean −0.006011
Std Dev 0.8916

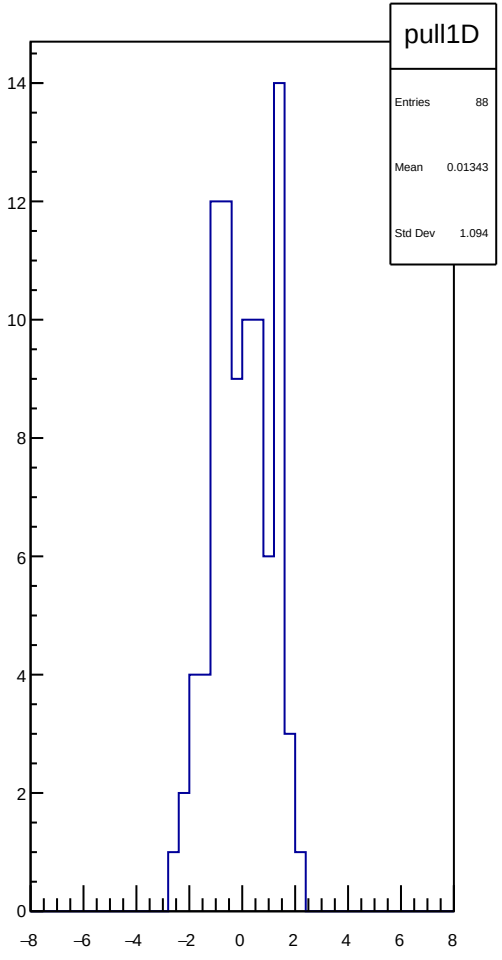

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.84 / 87
p0 −51.47 ± 1.549
pull
Entries 88
Mean 105.1
Std Dev 57.83

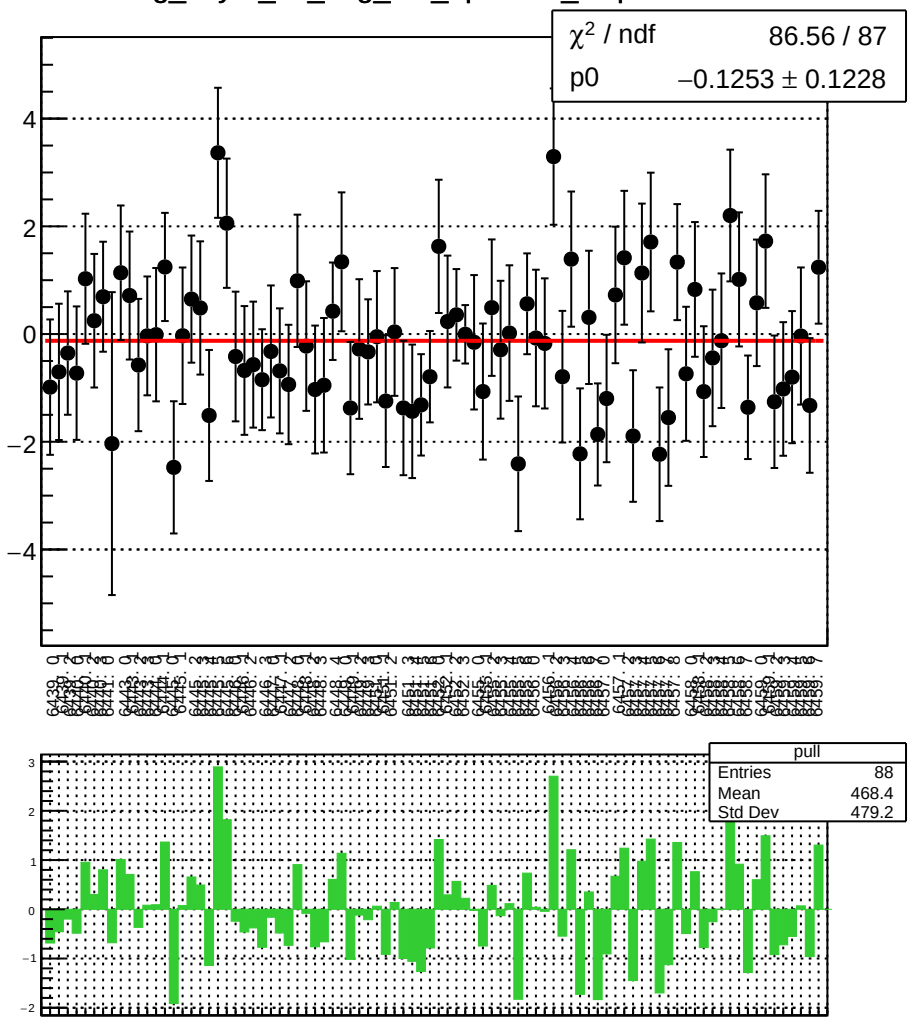

pull1D
Entries 88
Mean −0.04317
Std Dev 0.8834

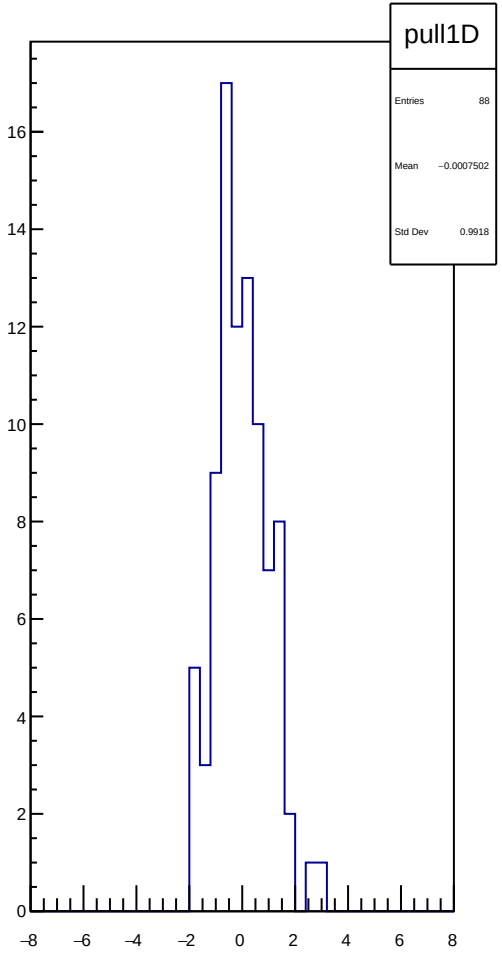

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.28 / 87
p0 −2.505 ± 1.008
pull
Entries 88
Mean −308.8
Std Dev 350.5

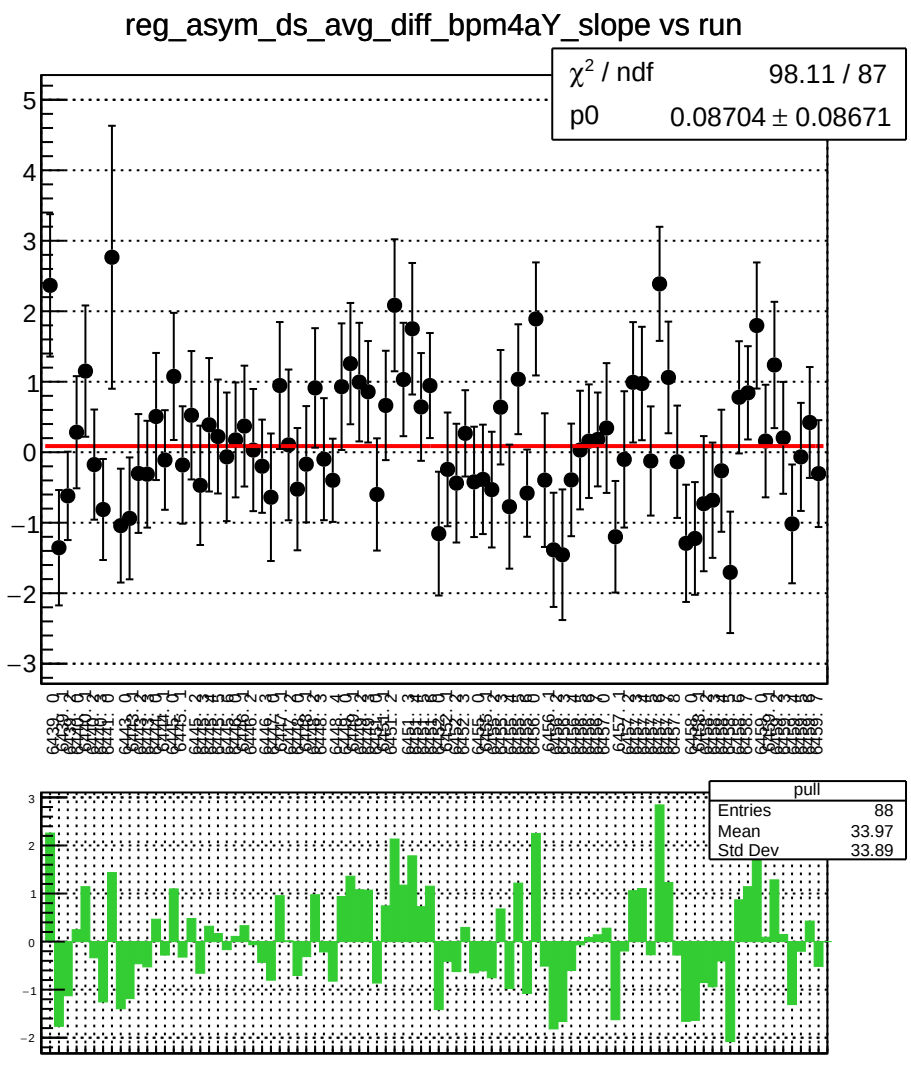

pull1D
Entries 88
Mean 0.009974
Std Dev 0.9062

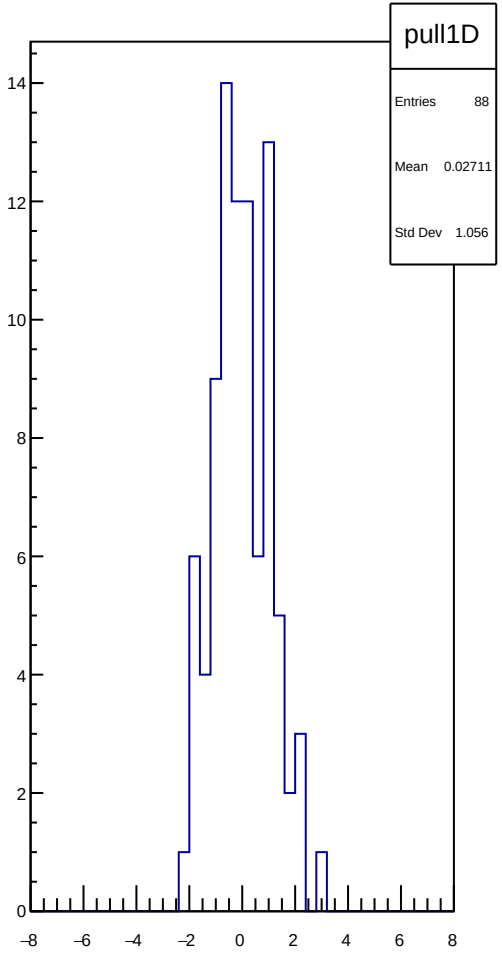

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 105.3 / 87
p0 0.4651± 0.04164
pull
Entries 88
Mean 906.8
Std Dev 866.6

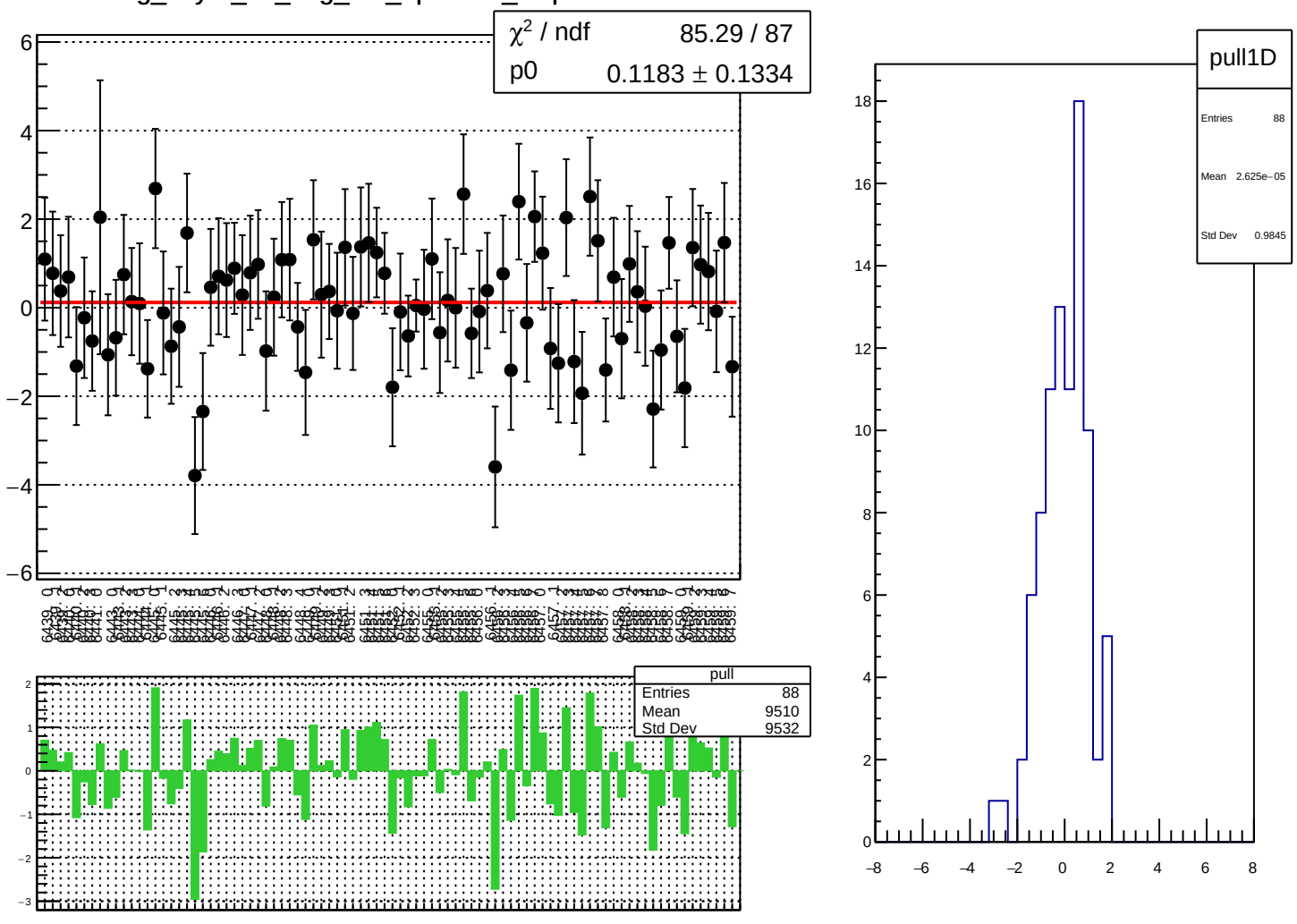

pull1D
Entries 88
Mean 0.01343
Std Dev 1.094

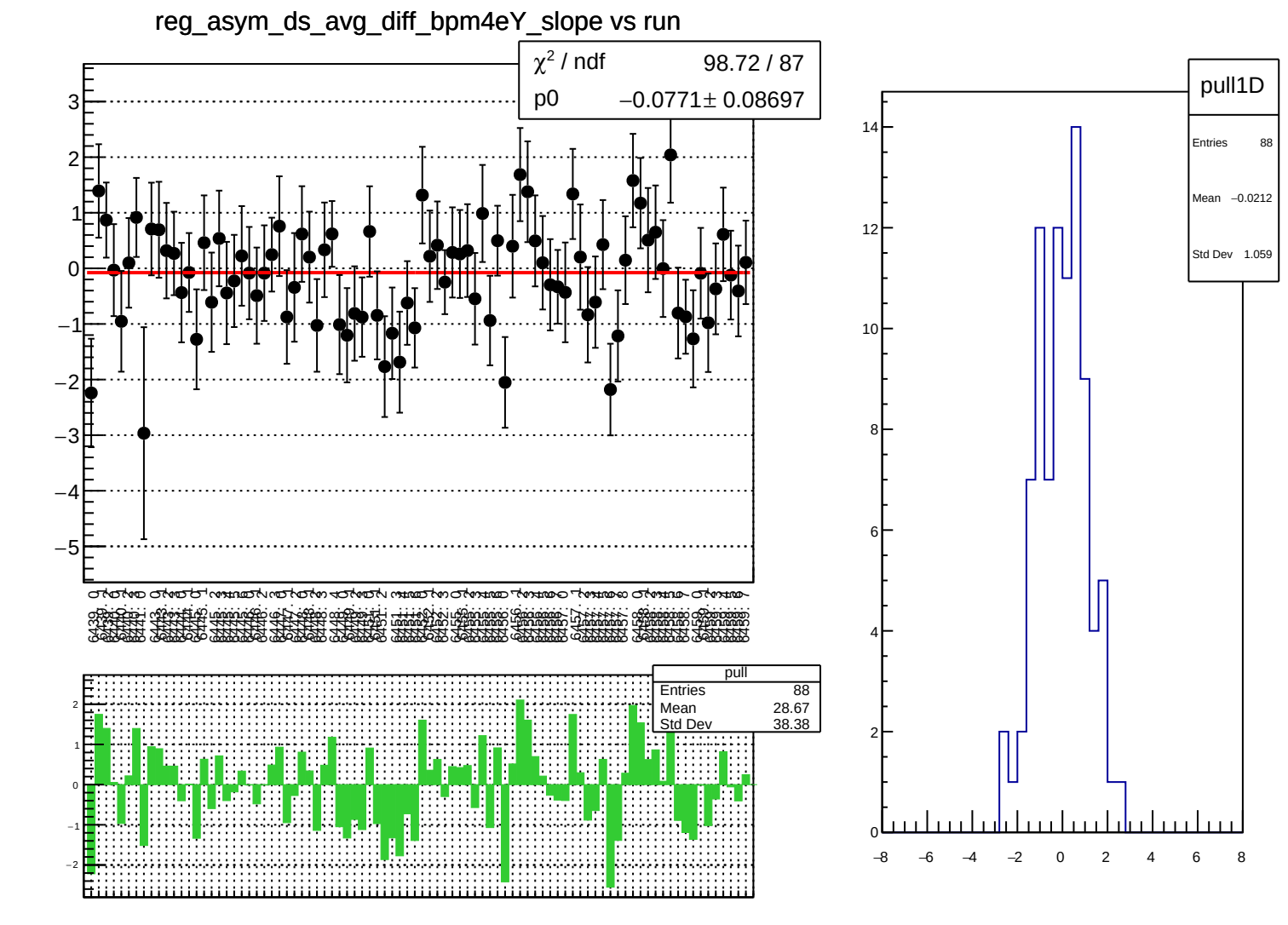

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 86.56 / 87
p0 −0.1253 ± 0.1228
pull
Entries 88
Mean 468.4
Std Dev 479.2

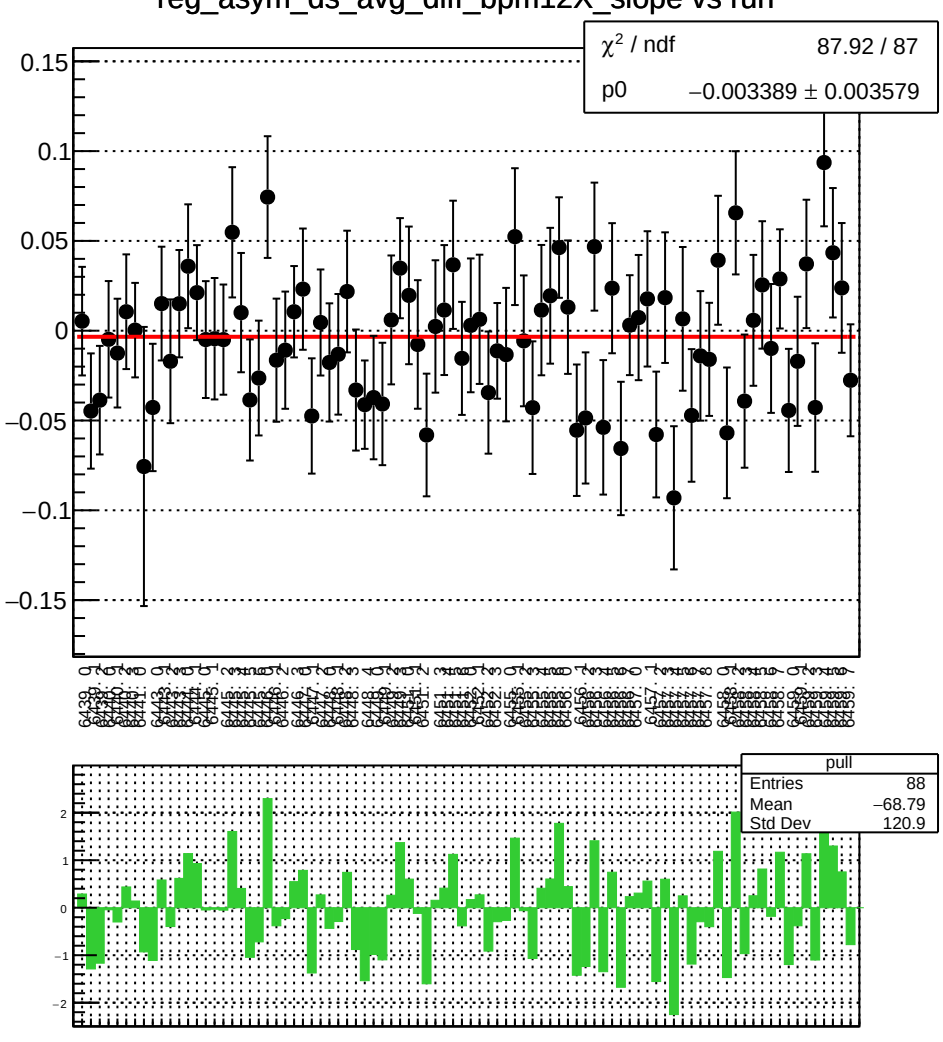

pull1D
Entries 88
Mean −0.0007502
Std Dev 0.9918

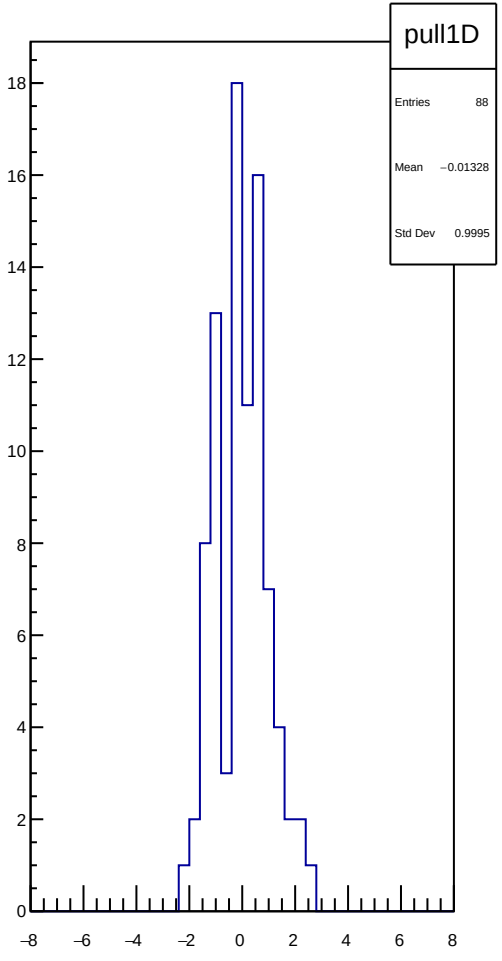

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 98.11 / 87
p0 0.08704 ± 0.08671
pull
Entries 88
Mean 33.97
Std Dev 33.89

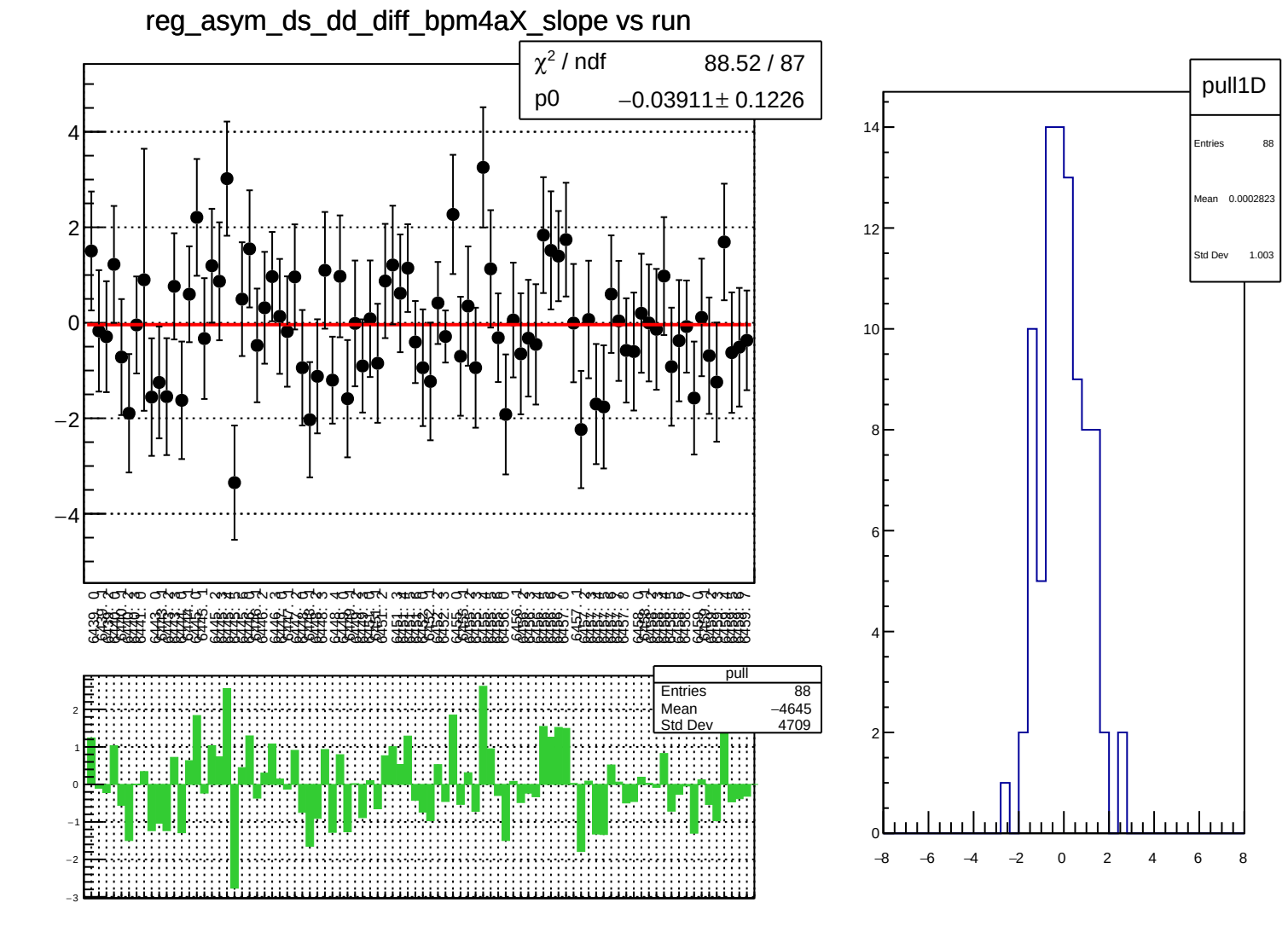

pull1D
Entries 88
Mean 0.02711
Std Dev 1.056

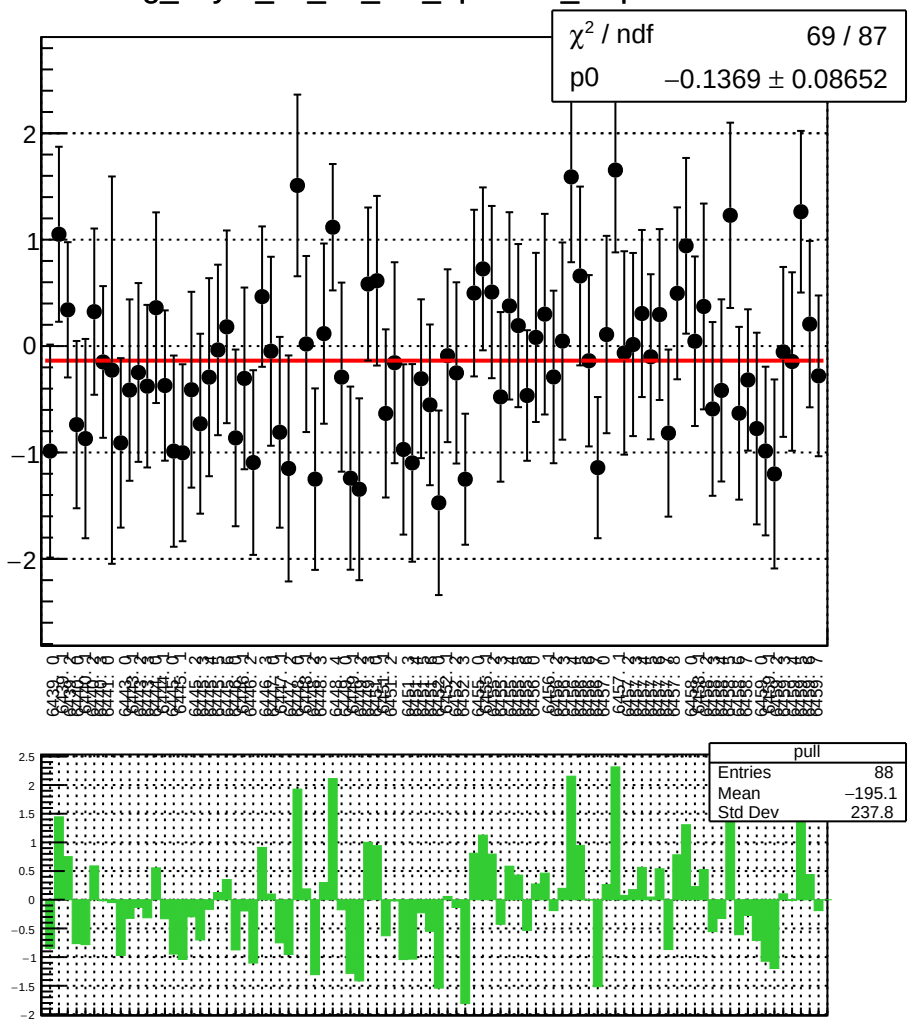

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.29 / 87
p0 0.1183 ± 0.1334
pull
Entries 88
Mean 9510
Std Dev 9532
pull1D
Entries 88
Mean 2.625e−05
Std Dev 0.9845

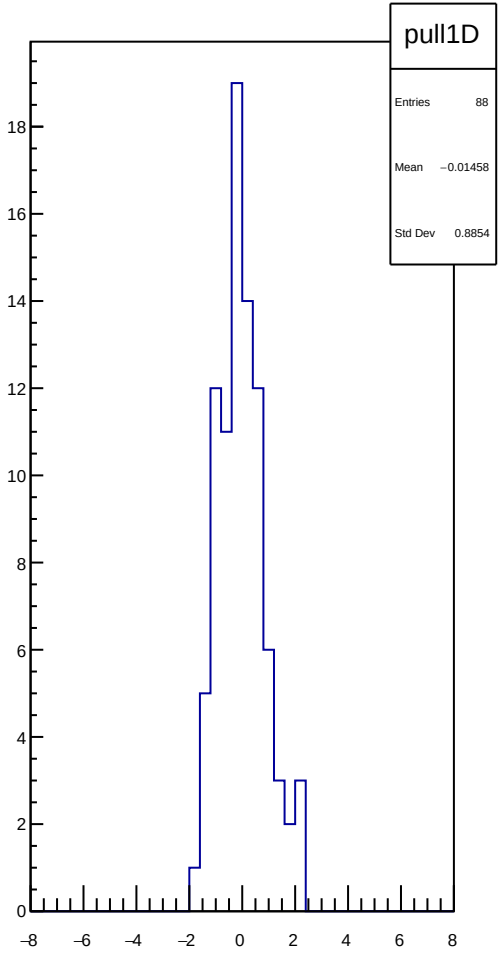

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 98.72 / 87
p0 −0.0771± 0.08697
pull
Entries 88
Mean 28.67
Std Dev 38.38
pull1D
Entries 88
Mean −0.0212
Std Dev 1.059

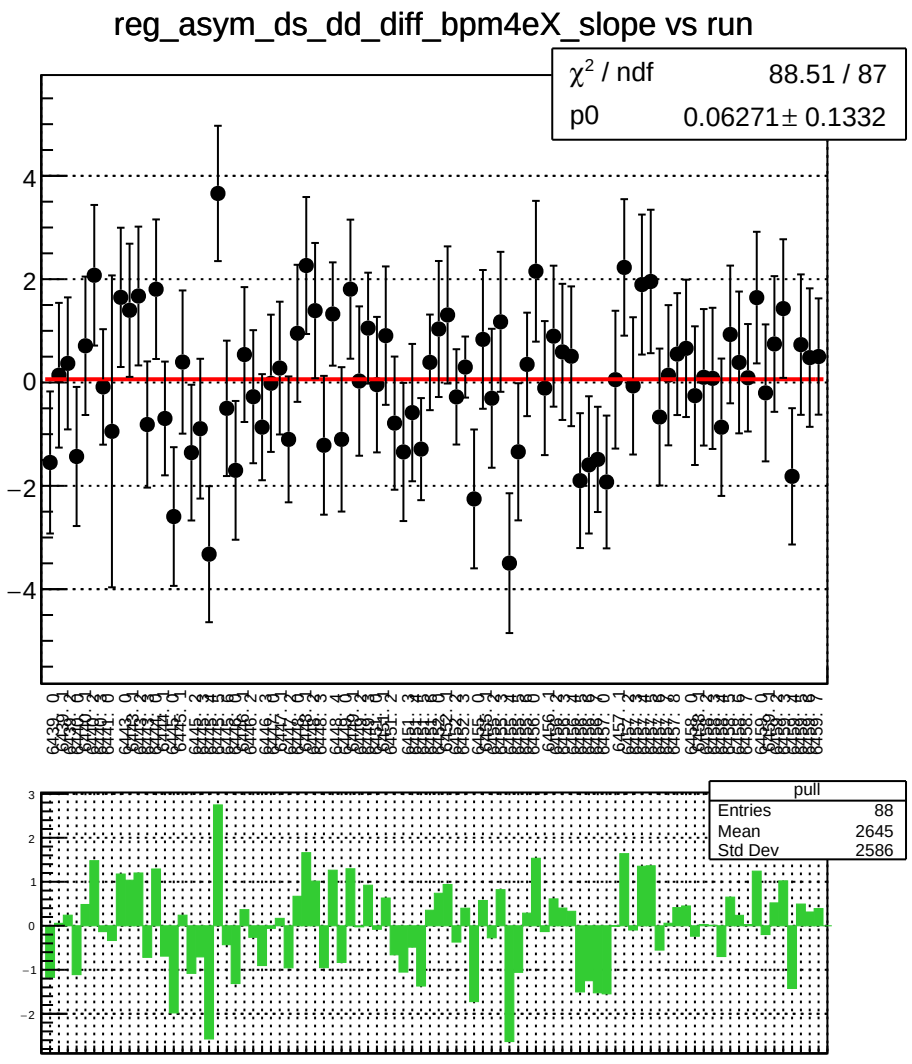

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 87.92 / 87
p0 −0.003389 ± 0.003579
pull
Entries 88
Mean −68.79
Std Dev 120.9

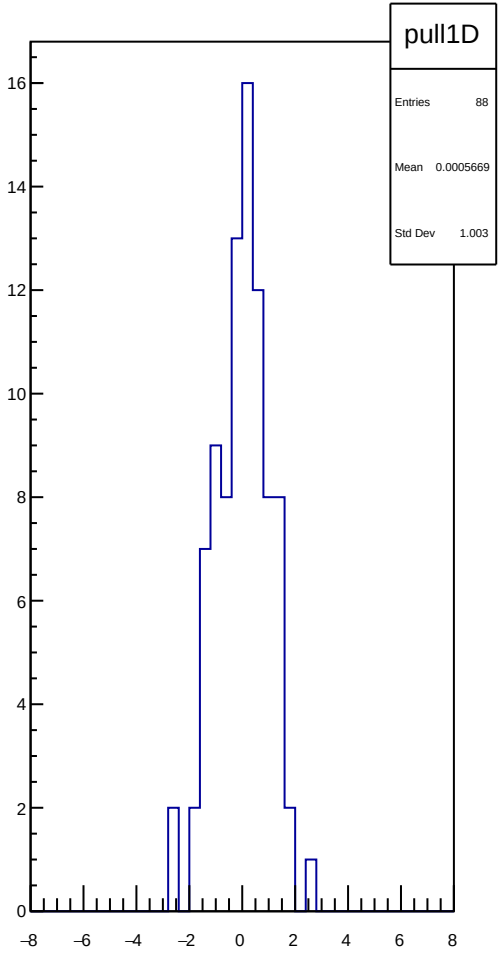

pull1D
Entries 88
Mean −0.01328
Std Dev 0.9995

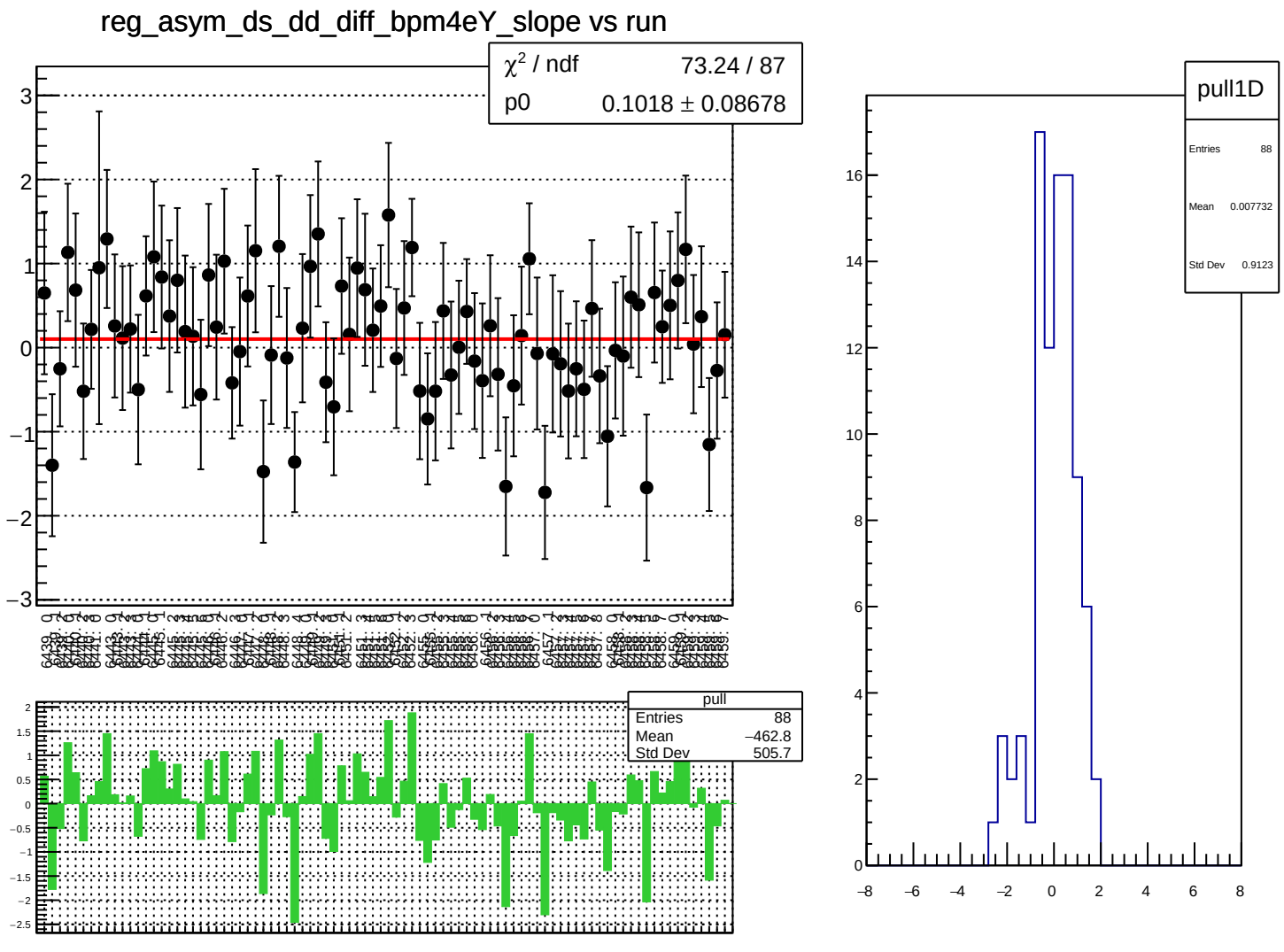

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 88.52 / 87
p0 −0.03911 ± 0.1226
pull
Entries 88
Mean −4645
Std Dev 4709
pull1D
Entries 88
Mean 0.0002823
Std Dev 1.003

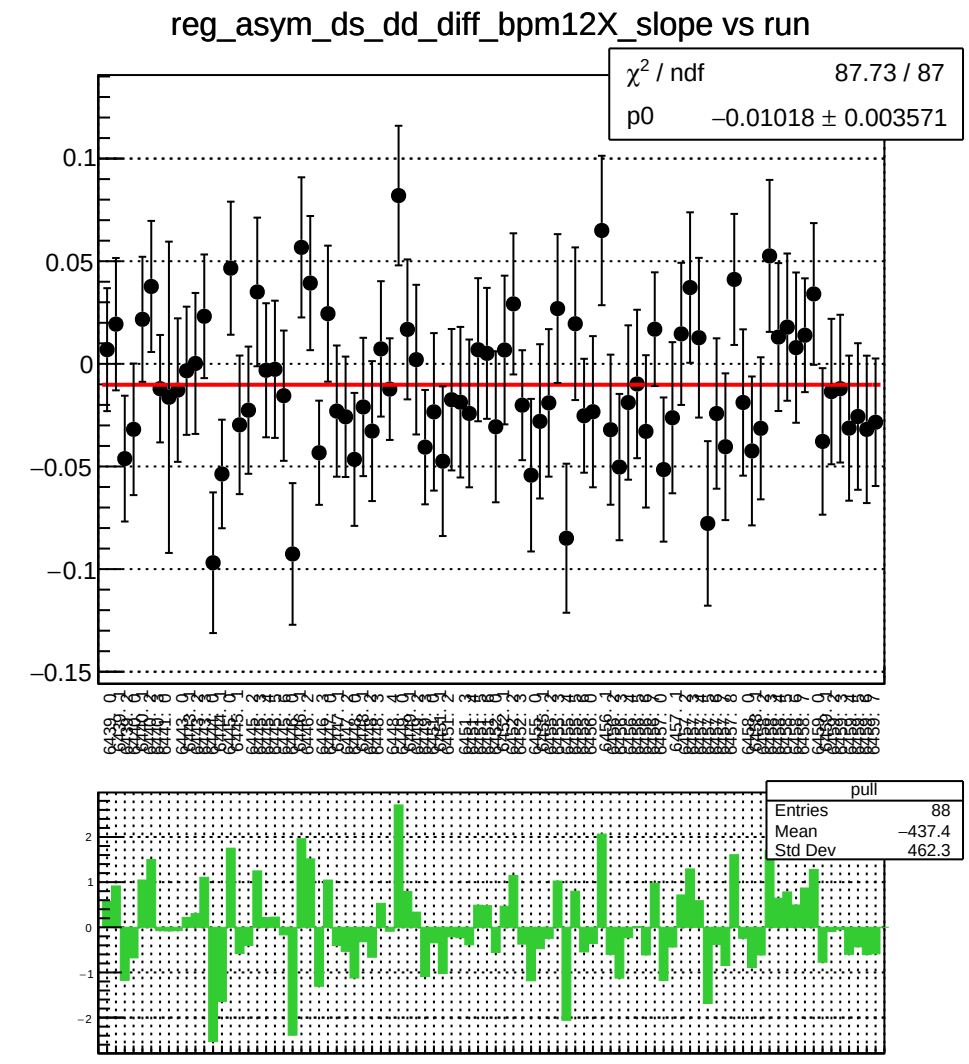

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 69 / 87
p0 −0.1369 ± 0.08652
pull
Entries 88
Mean −195.1
Std Dev 237.8

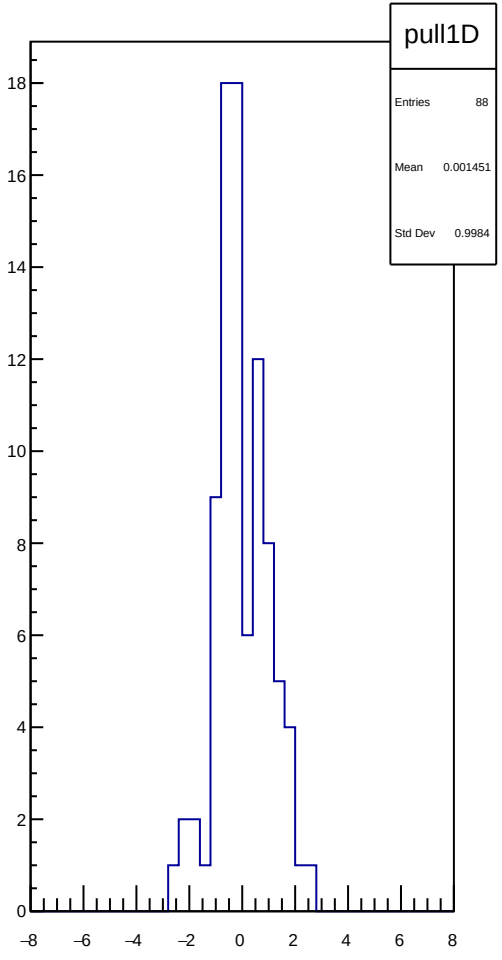

pull1D
Entries 88
Mean −0.01458
Std Dev 0.8854

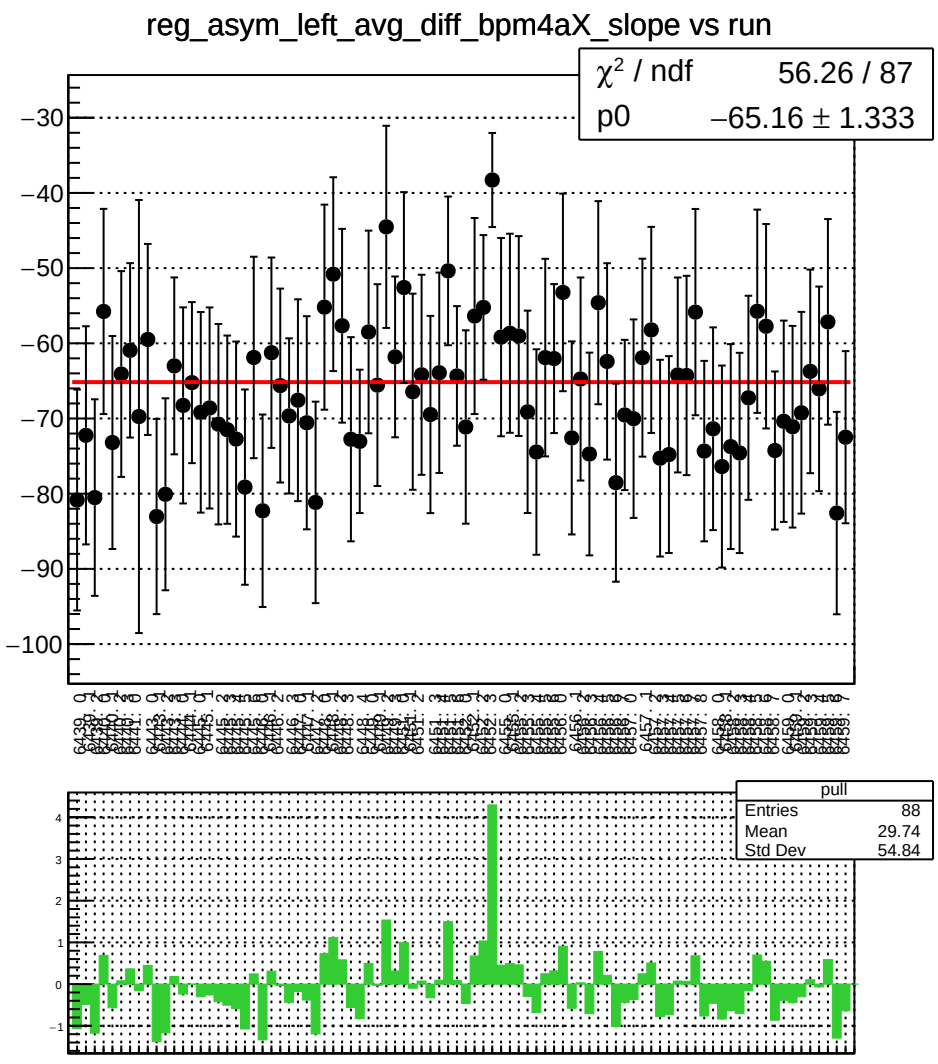

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.51 / 87
p0 0.06271± 0.1332
pull
Entries 88
Mean 2645
Std Dev 2586

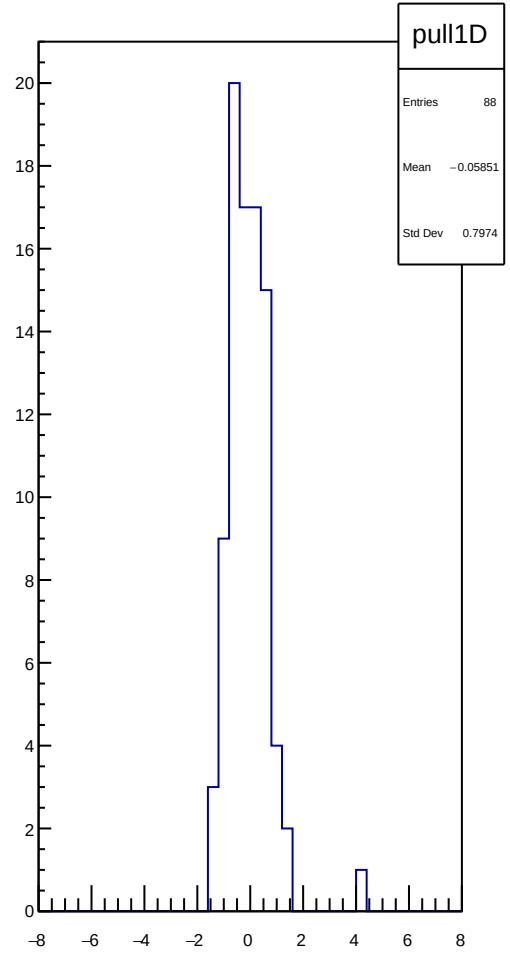

pull1D
Entries 88
Mean 0.0005669
Std Dev 1.003

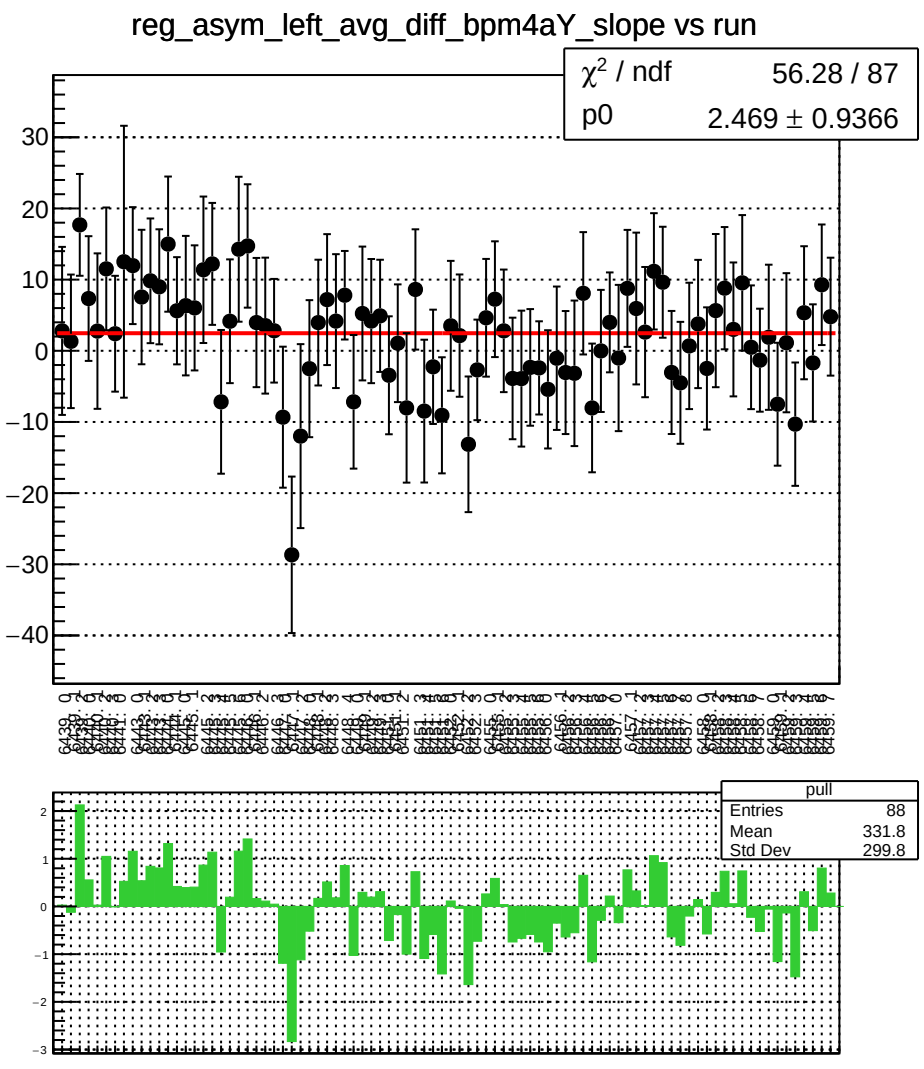

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.24 / 87
p0 0.1018 ± 0.08678
pull
Entries 88
Mean −462.8
Std Dev 505.7
pull1D
Entries 88
Mean 0.007732
Std Dev 0.9123

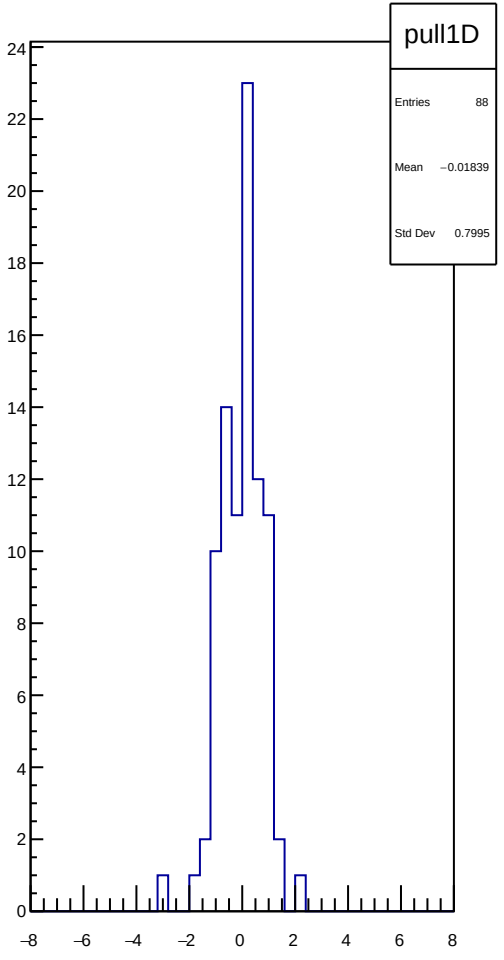

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 87.73 / 87
p0 −0.01018 ± 0.003571
pull
Entries 88
Mean −437.4
Std Dev 462.3

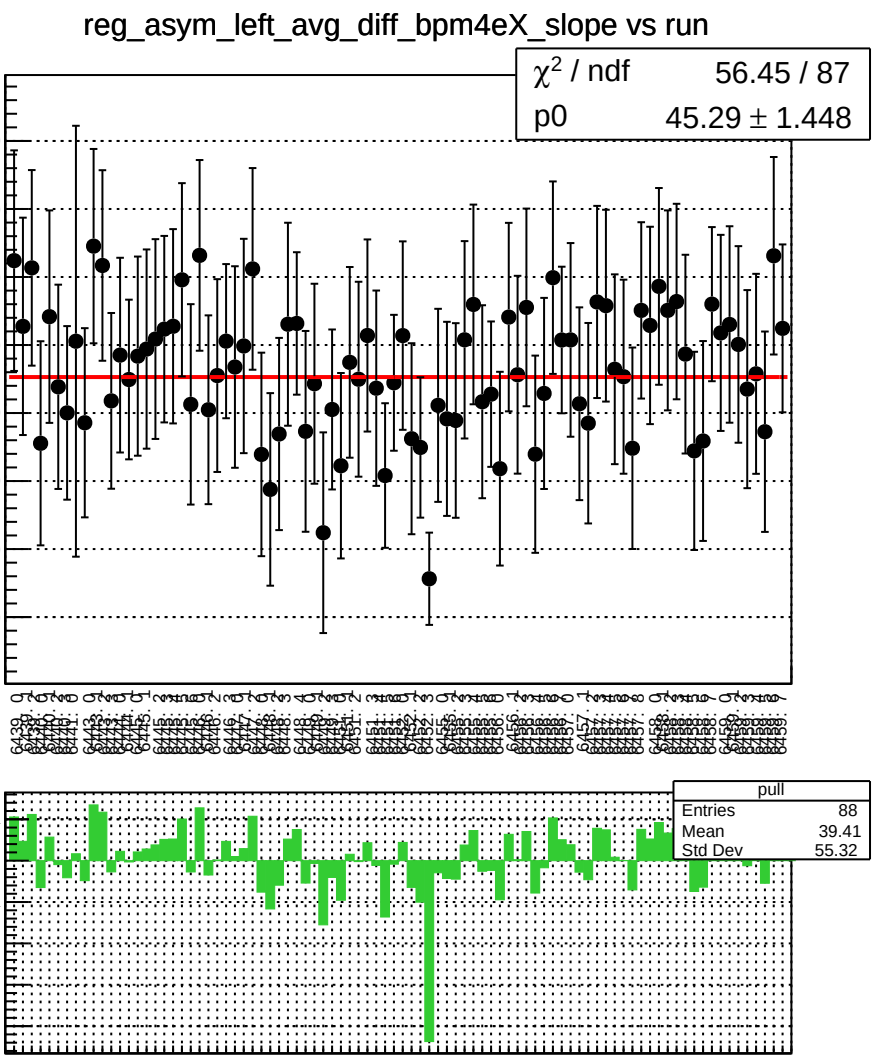

pull1D
Entries 88
Mean 0.001451
Std Dev 0.9984

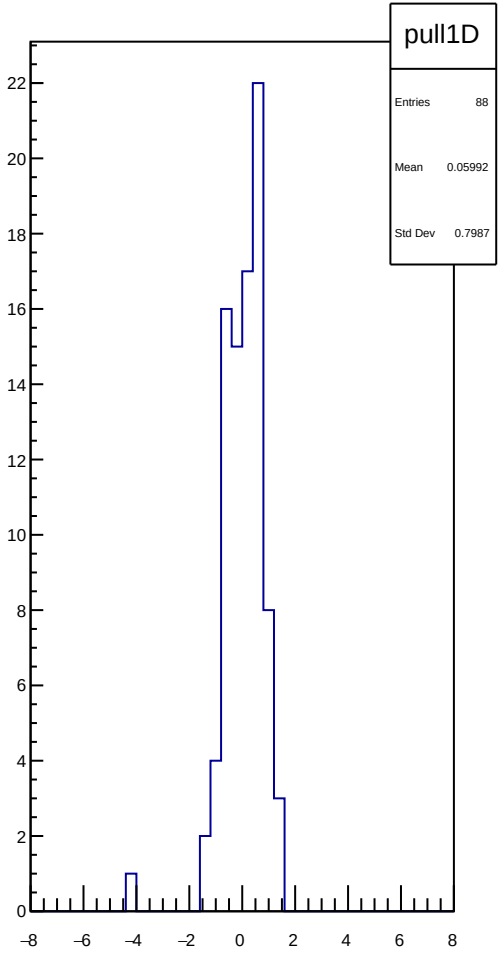

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 56.26 / 87
p0 −65.16 ± 1.333
pull
Entries 88
Mean 29.74
Std Dev 54.84

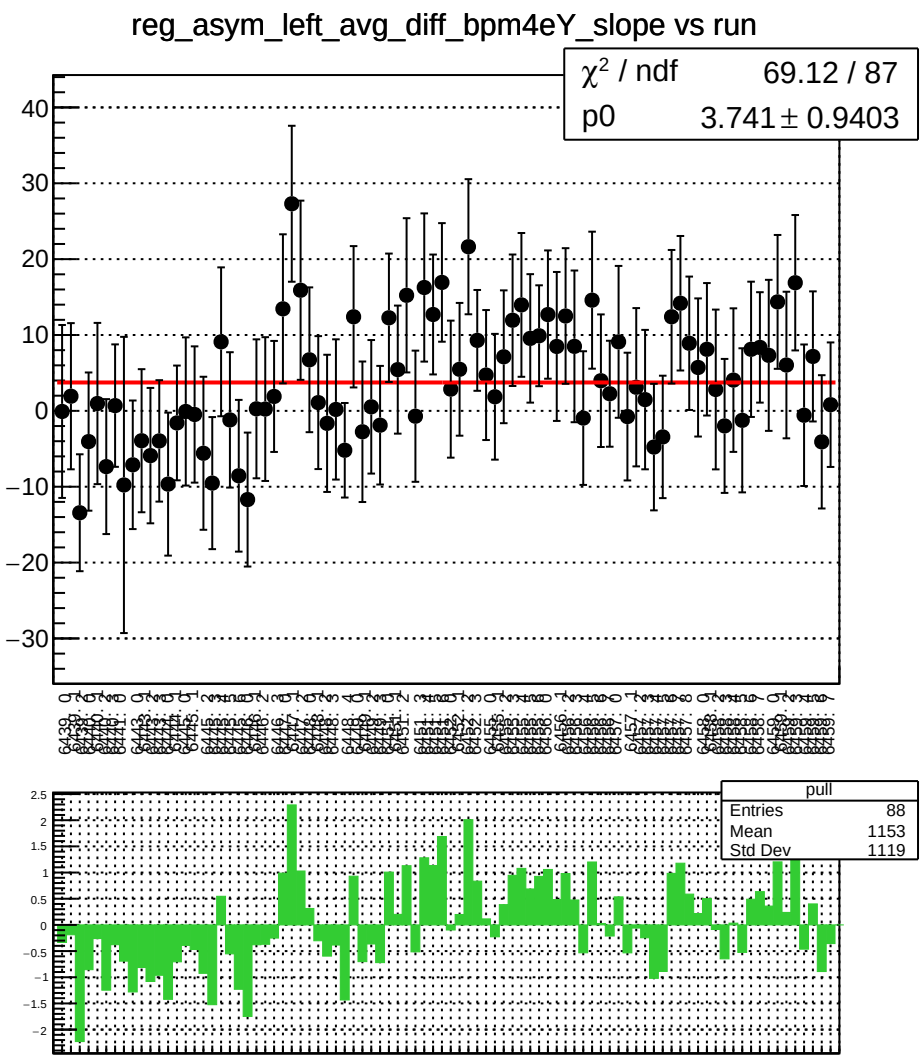

pull1D
Entries 88
Mean −0.05851
Std Dev 0.7974

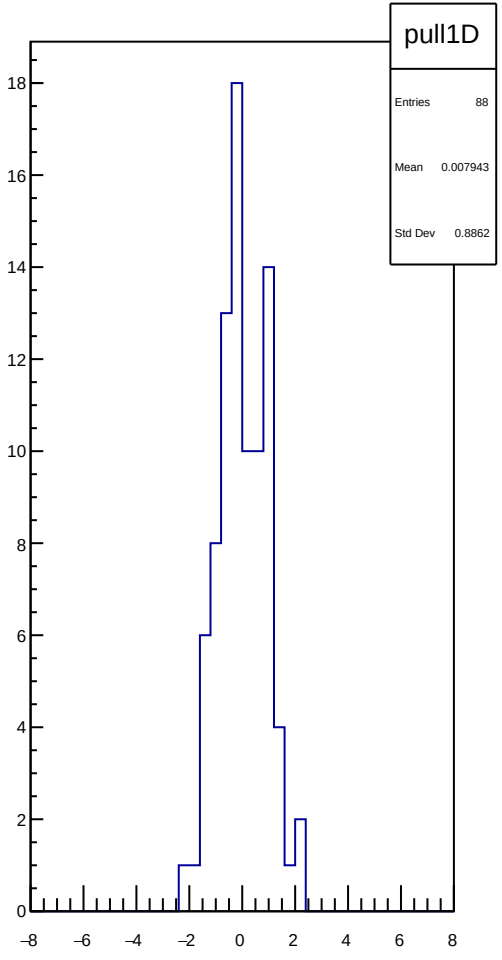

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.28 / 87
p0 2.469 ± 0.9366
pull
Entries 88
Mean 331.8
Std Dev 299.8

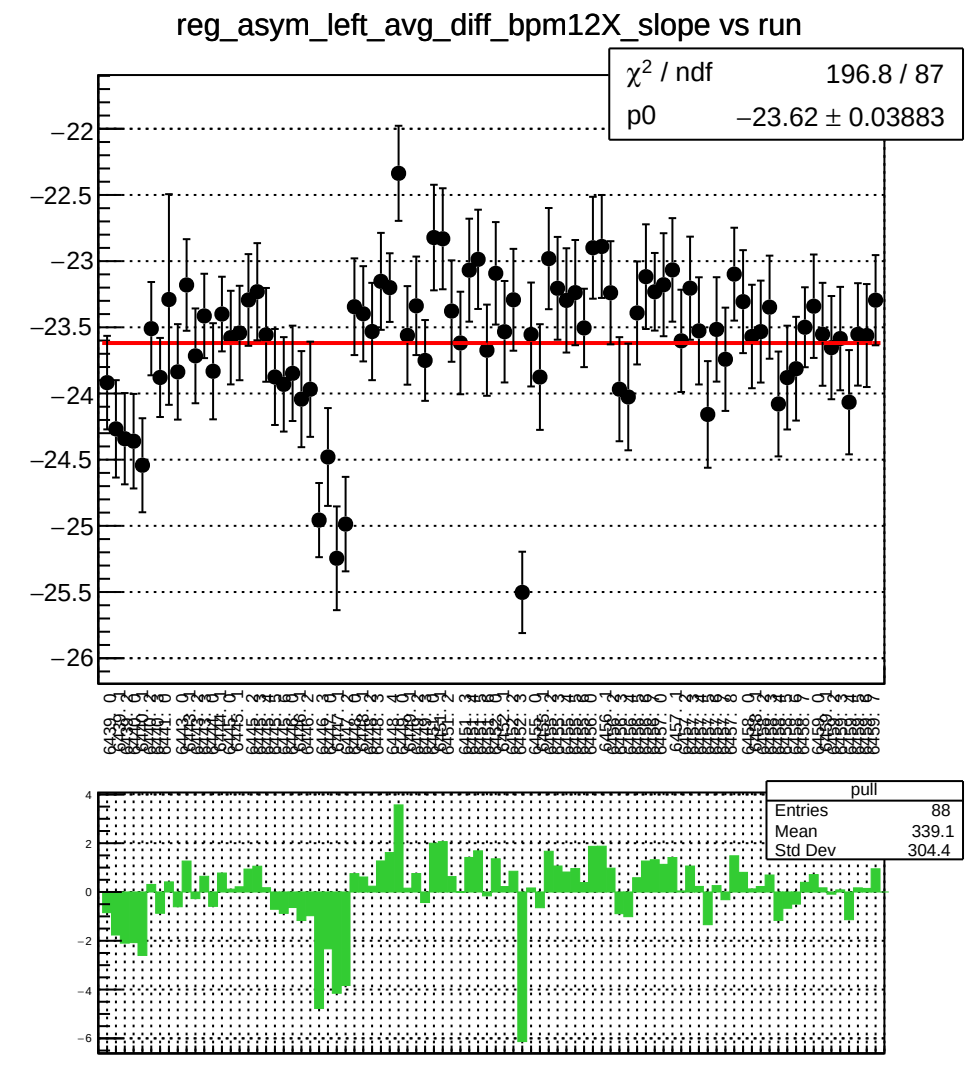

pull1D
Entries 88
Mean −0.01839
Std Dev 0.7995

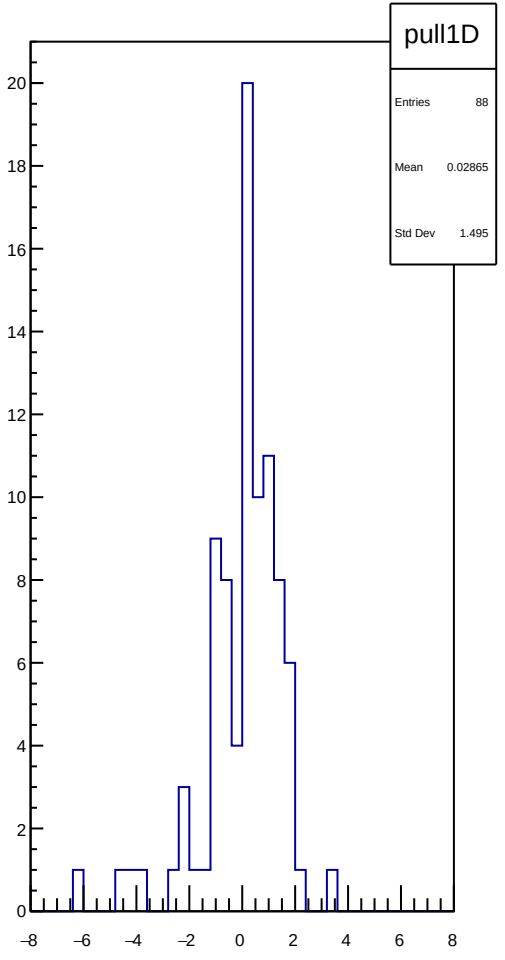

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 56.45 / 87
p0 45.29 ± 1.448
pull
Entries 88
Mean 39.41
Std Dev 55.32

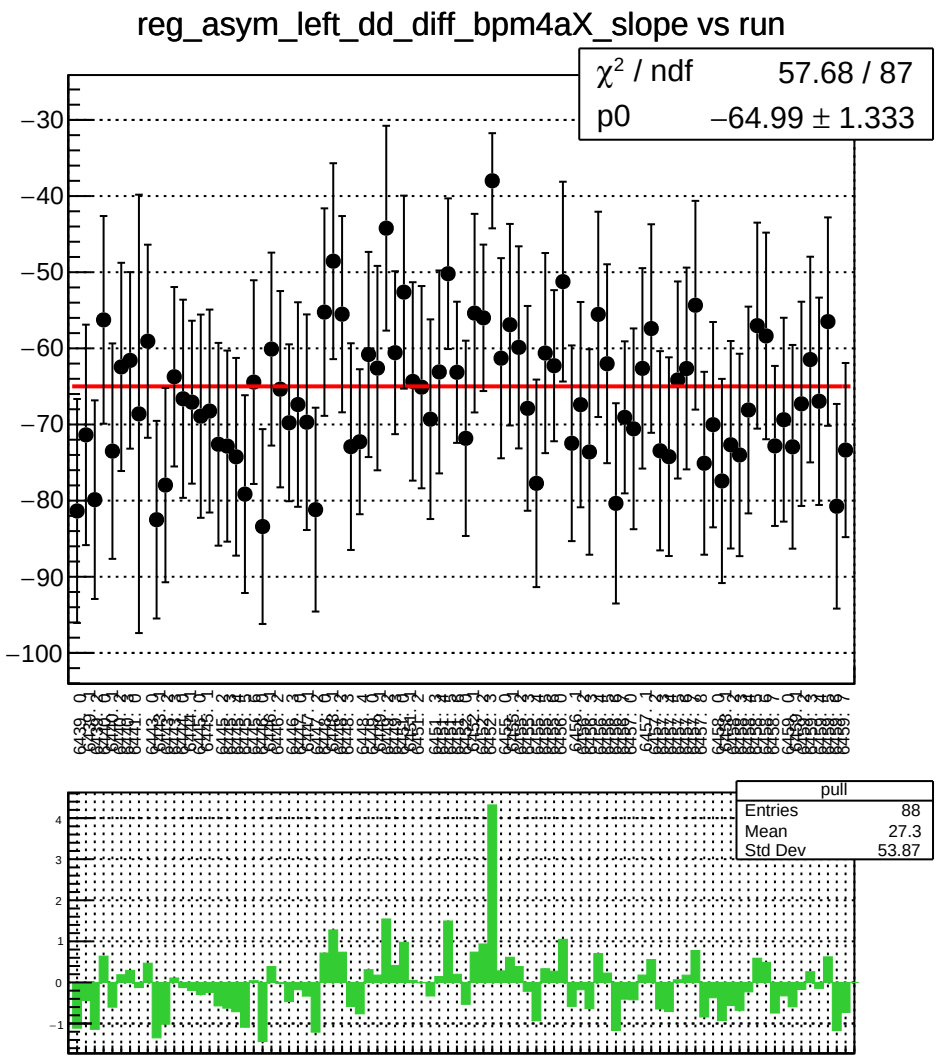

pull1D
Entries 88
Mean 0.05992
Std Dev 0.7987

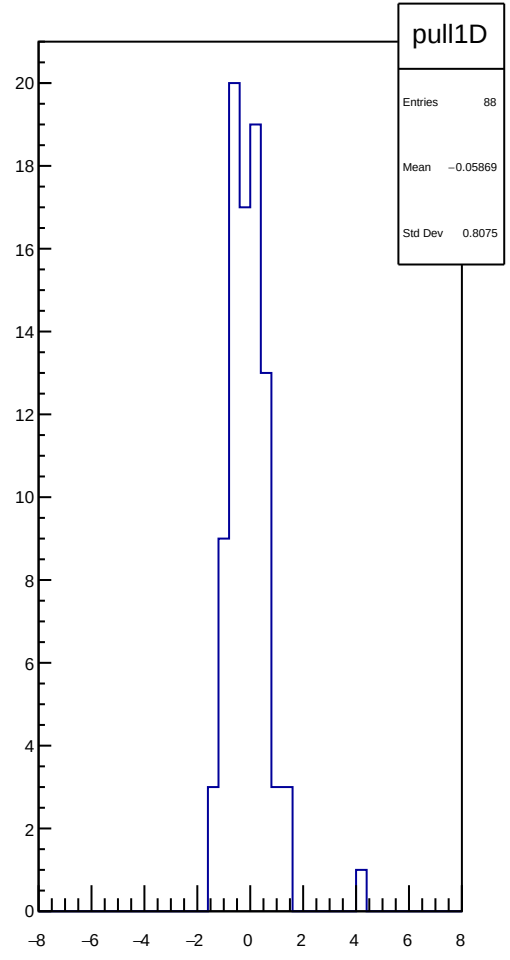

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 69.12 / 87
p0 3.741 ± 0.9403
pull
Entries 88
Mean 1153
Std Dev 1119

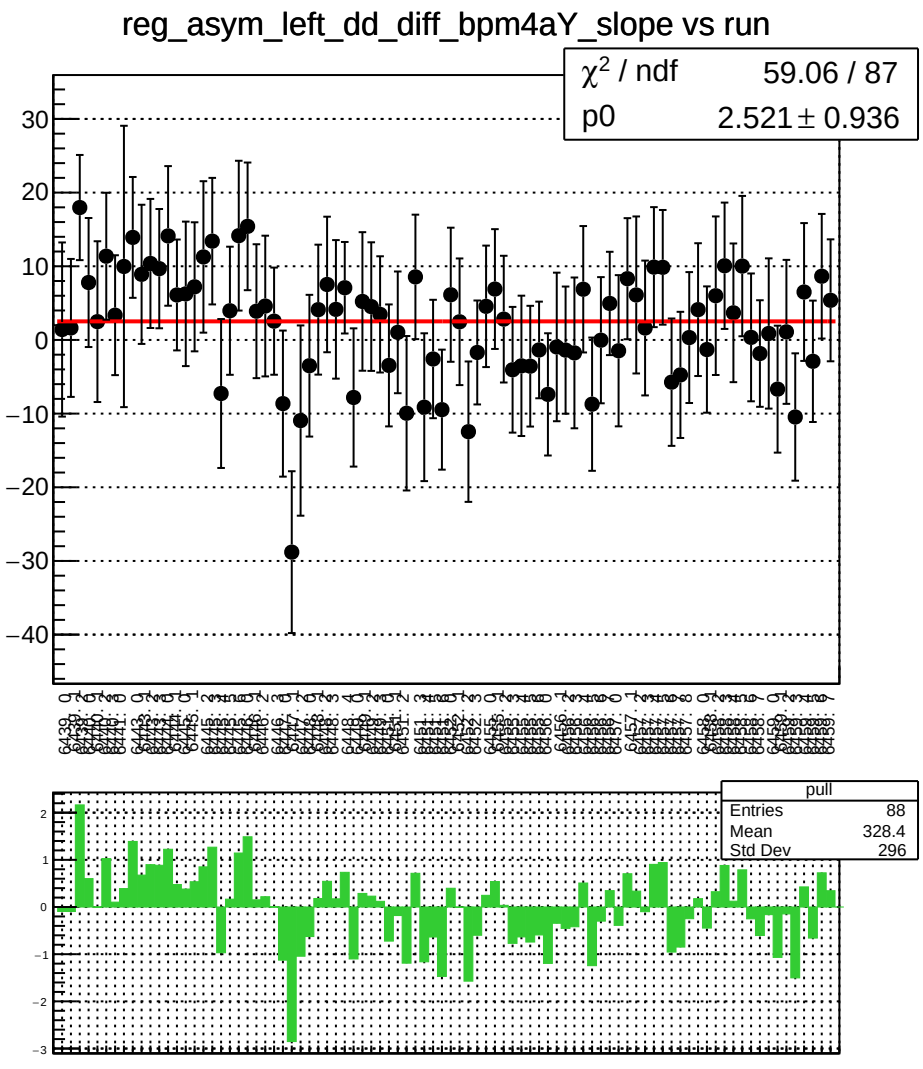

pull1D
Entries 88
Mean 0.007943
Std Dev 0.8862

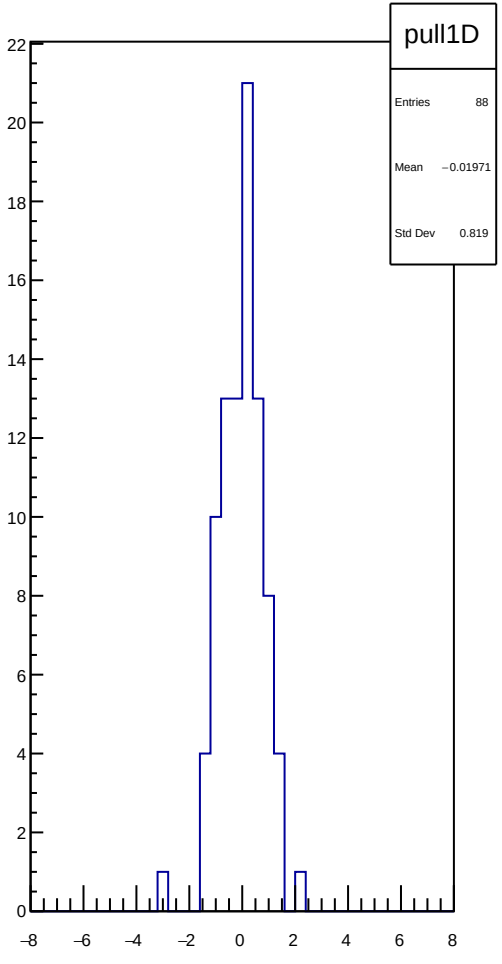

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 196.8 / 87
p0 −23.62 ± 0.03883
pull
Entries 88
Mean 339.1
Std Dev 304.4

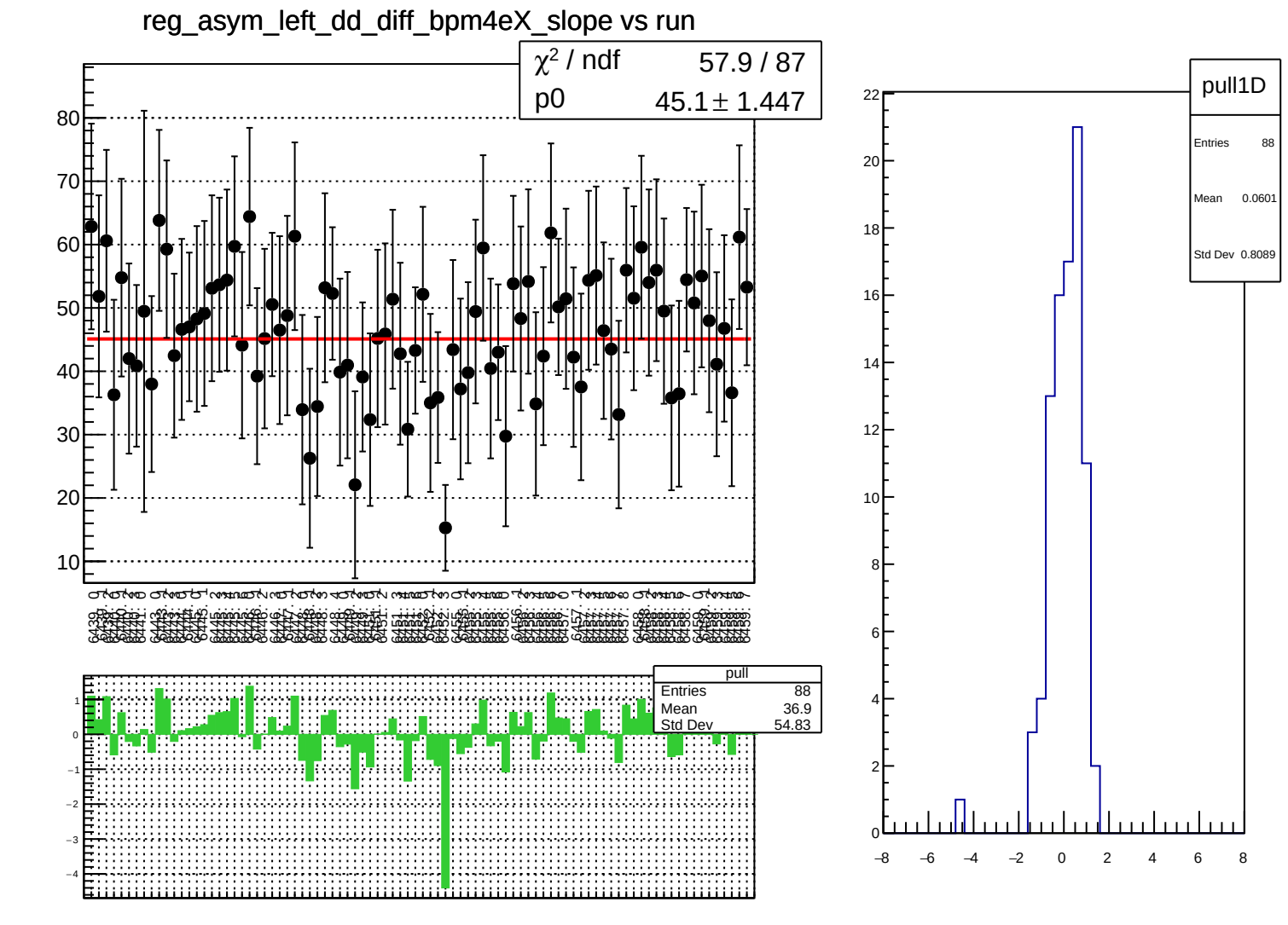

pull1D
Entries 88
Mean 0.02865
Std Dev 1.495

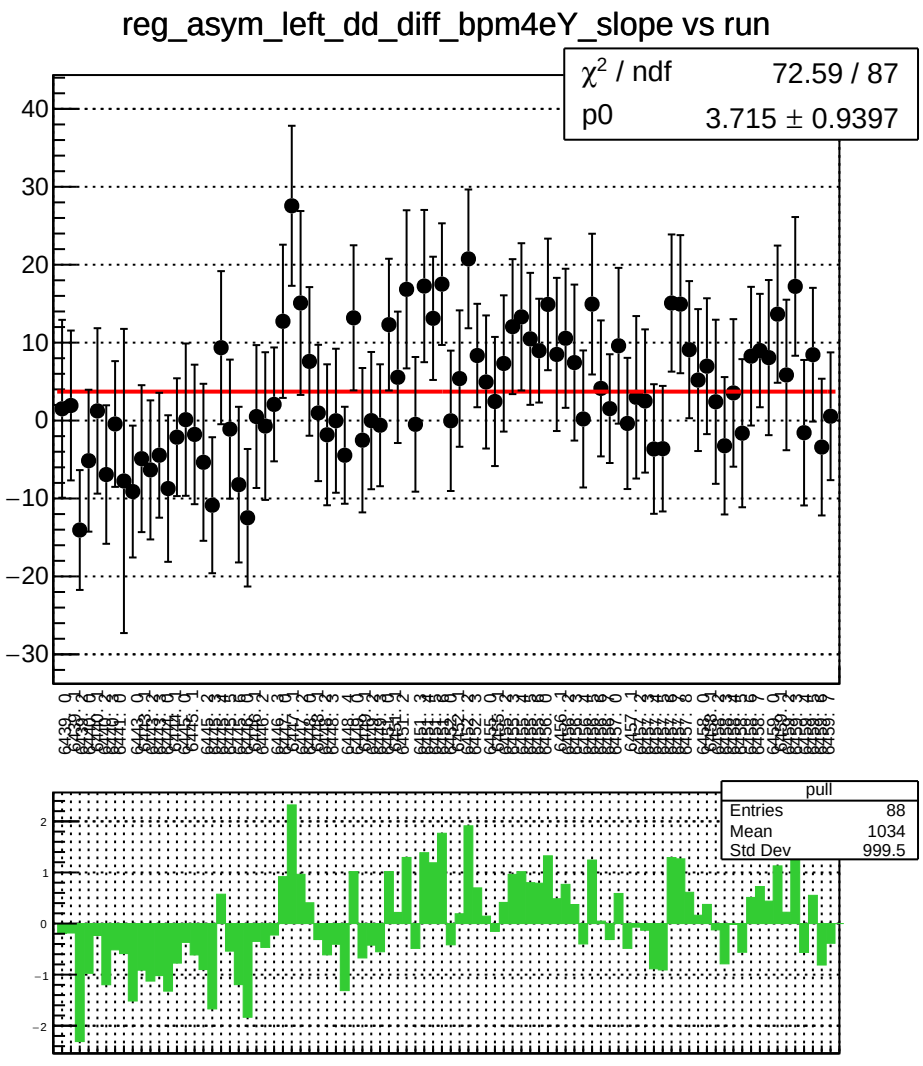

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 57.68 / 87
p0 −64.99 ± 1.333
pull
Entries 88
Mean 27.3
Std Dev 53.87

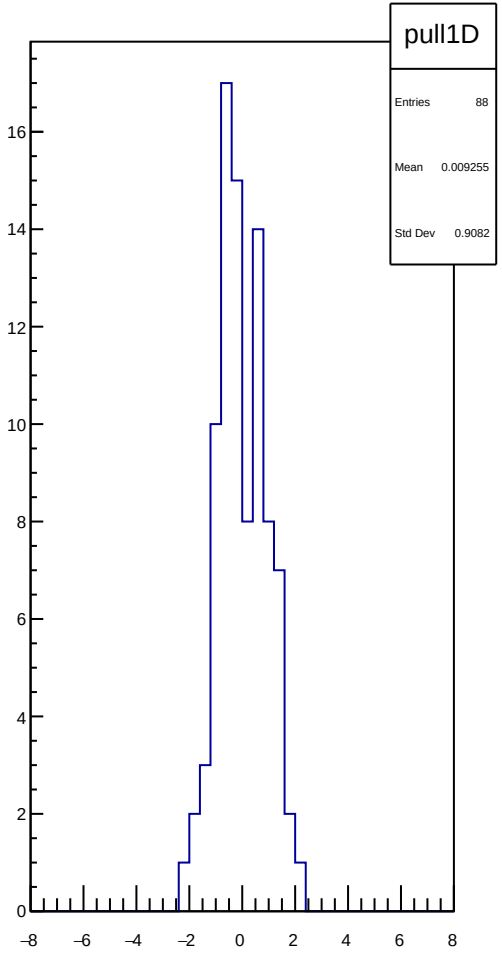

pull1D
Entries 88
Mean −0.05869
Std Dev 0.8075

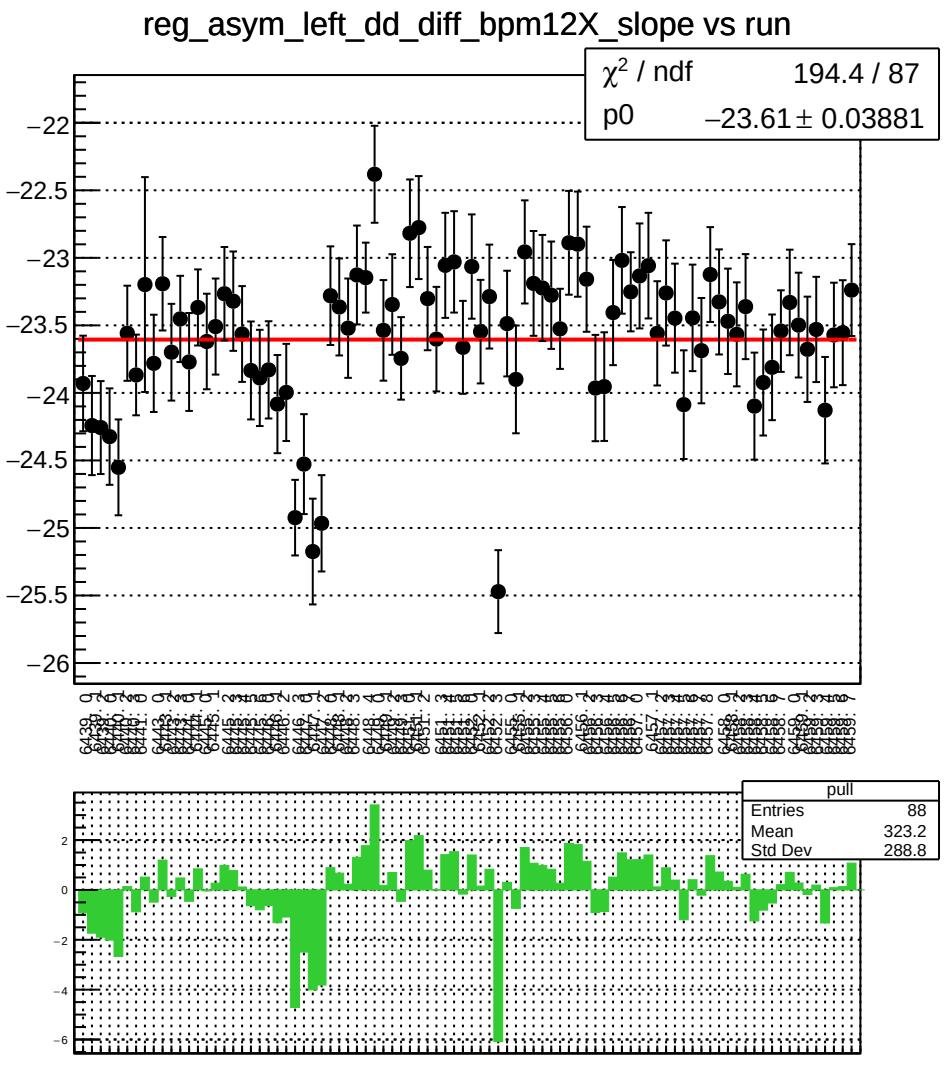

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 59.06 / 87
p0 2.521 ± 0.936
pull
Entries 88
Mean 328.4
Std Dev 296

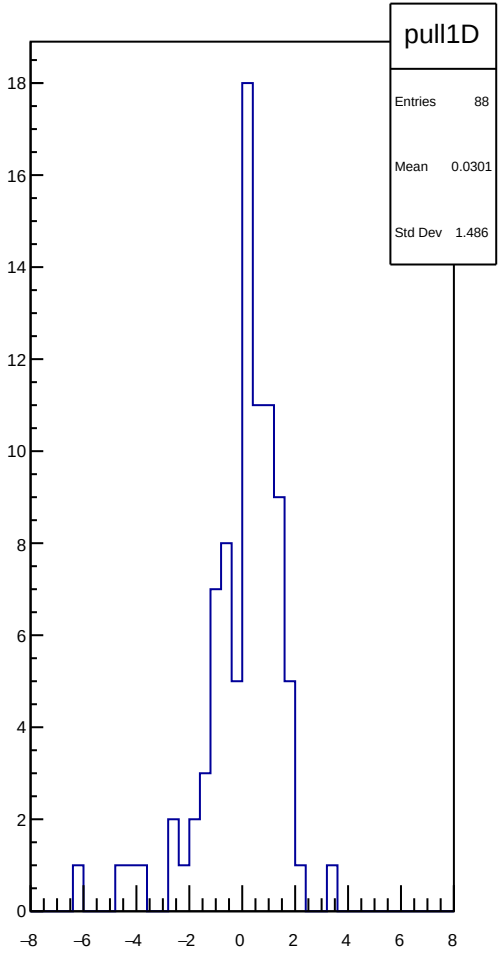

pull1D
Entries 88
Mean −0.01971
Std Dev 0.819

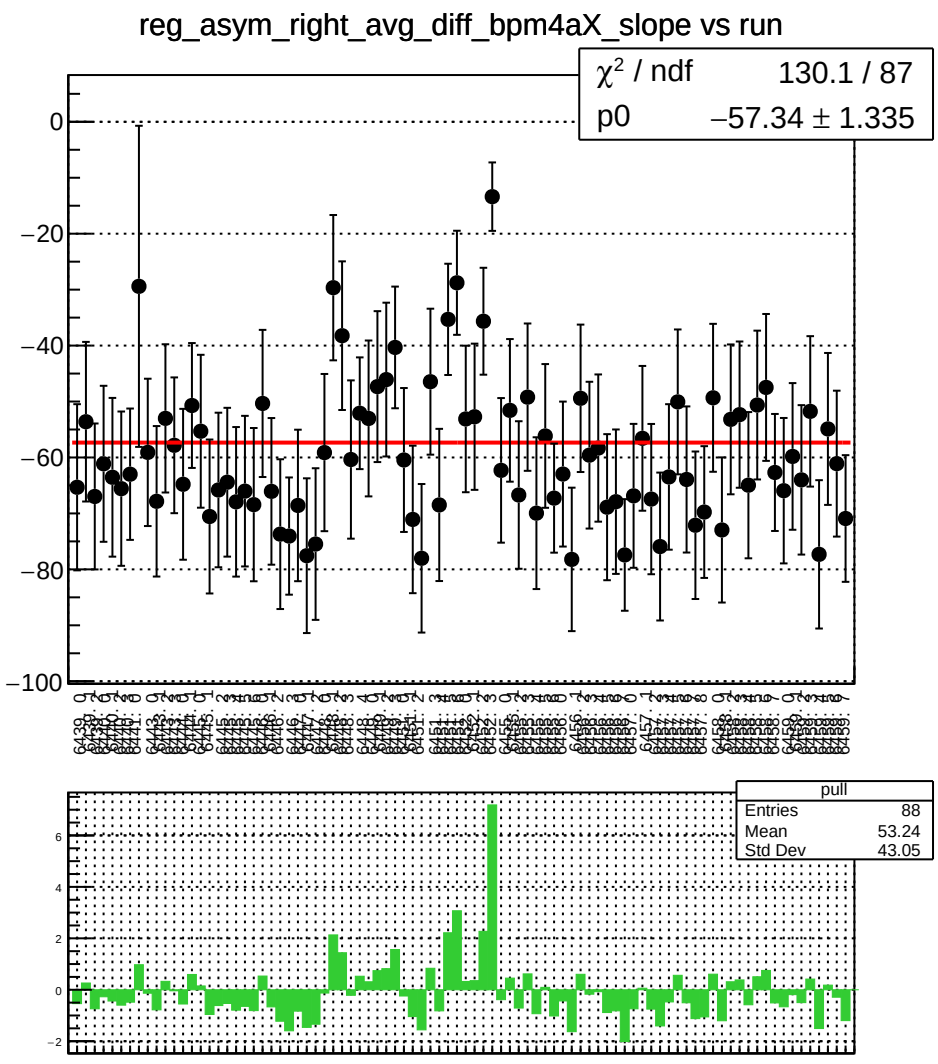

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.9 / 87
p0 45.1 ± 1.447
pull
Entries 88
Mean 36.9
Std Dev 54.83
pull1D
Entries 88
Mean 0.0601
Std Dev 0.8089

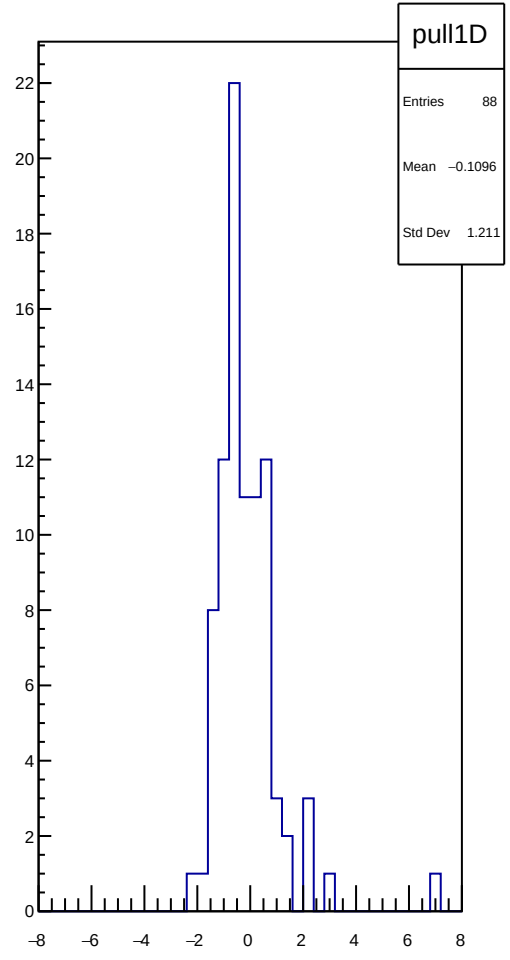

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.59 / 87
p0 3.715 ± 0.9397
pull
Entries 88
Mean 1034
Std Dev 999.5

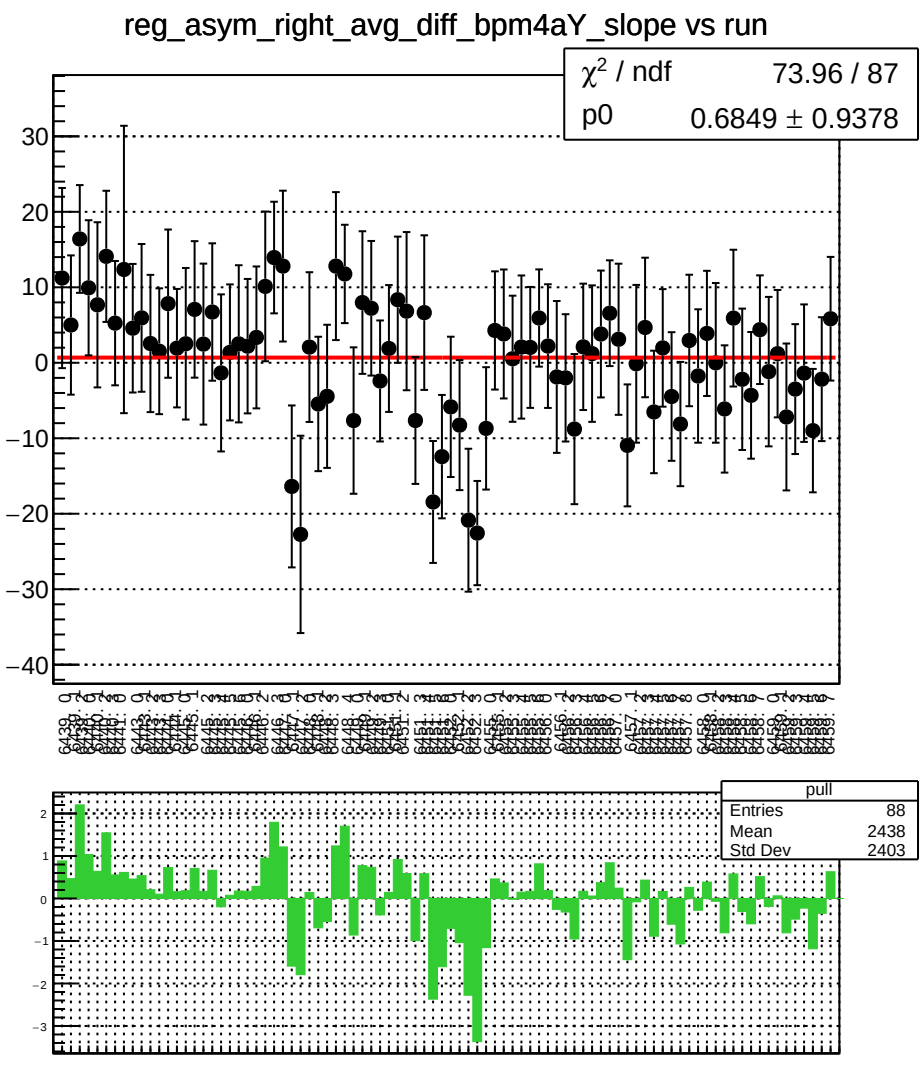

pull1D
Entries 88
Mean 0.009255
Std Dev 0.9082

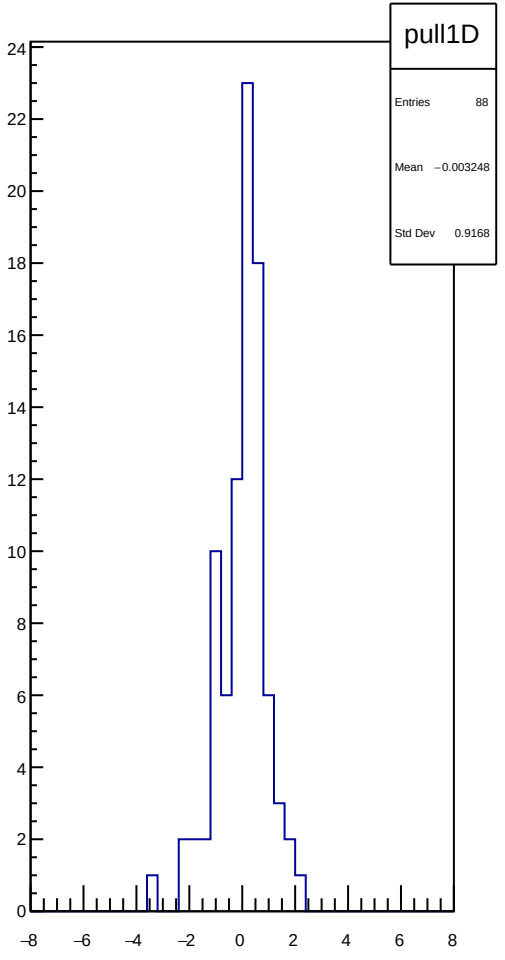

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 194.4 / 87
p0 −23.61 ± 0.03881
pull
Entries 88
Mean 323.2
Std Dev 288.8

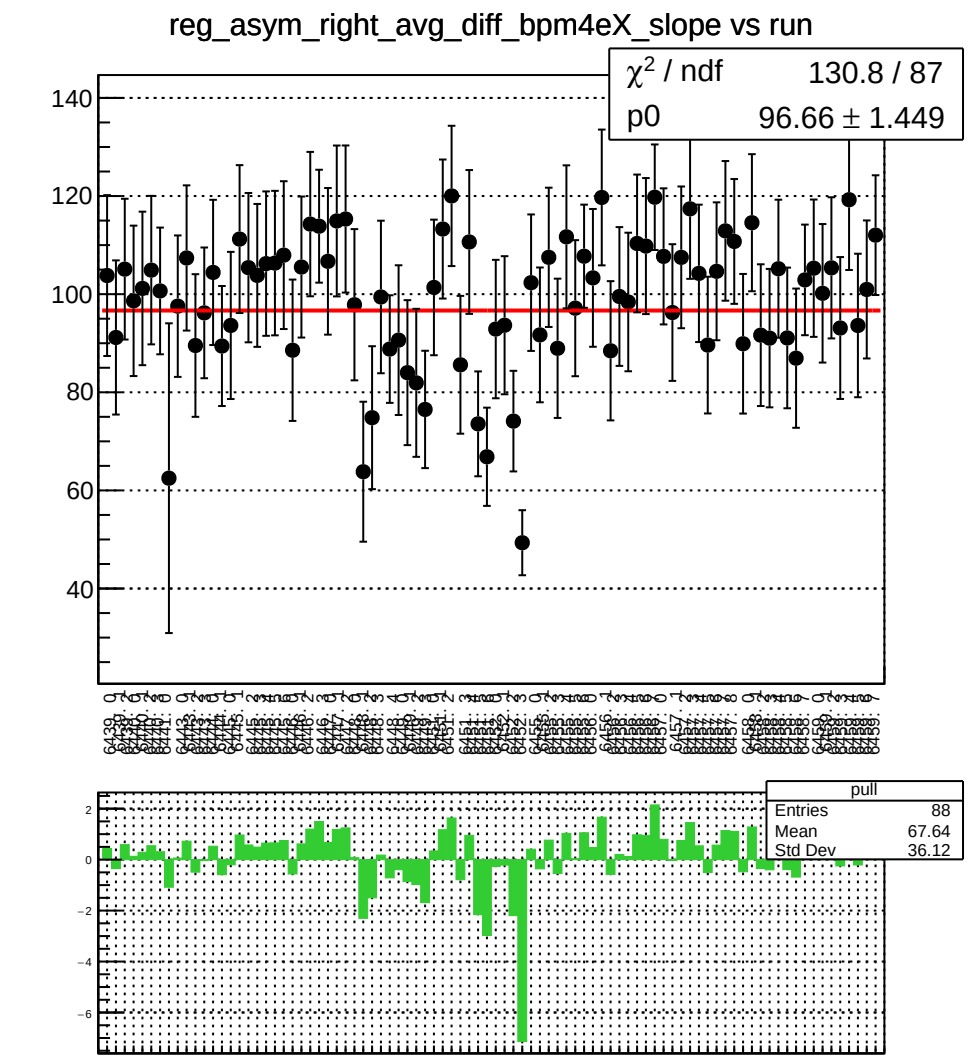

pull1D
Entries 88
Mean 0.0301
Std Dev 1.486

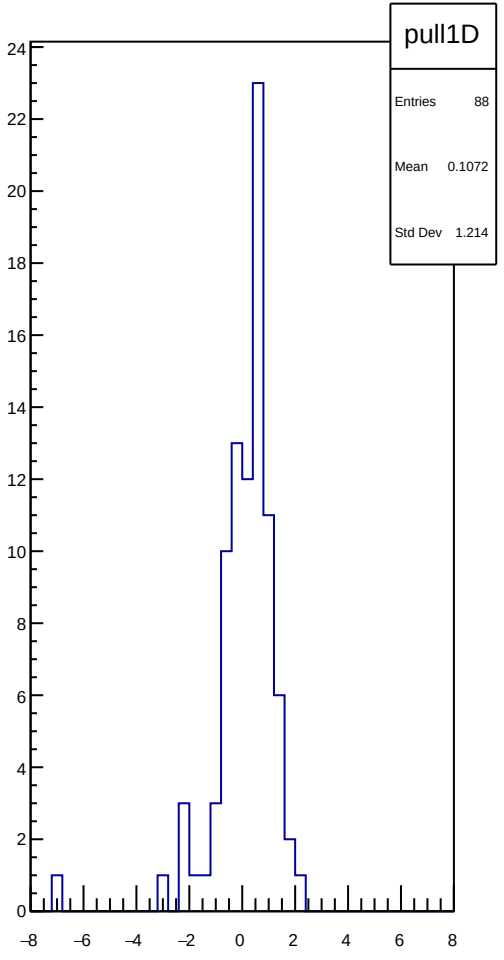

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 130.1 / 87
p0 −57.34 ± 1.335
pull
Entries 88
Mean 53.24
Std Dev 43.05

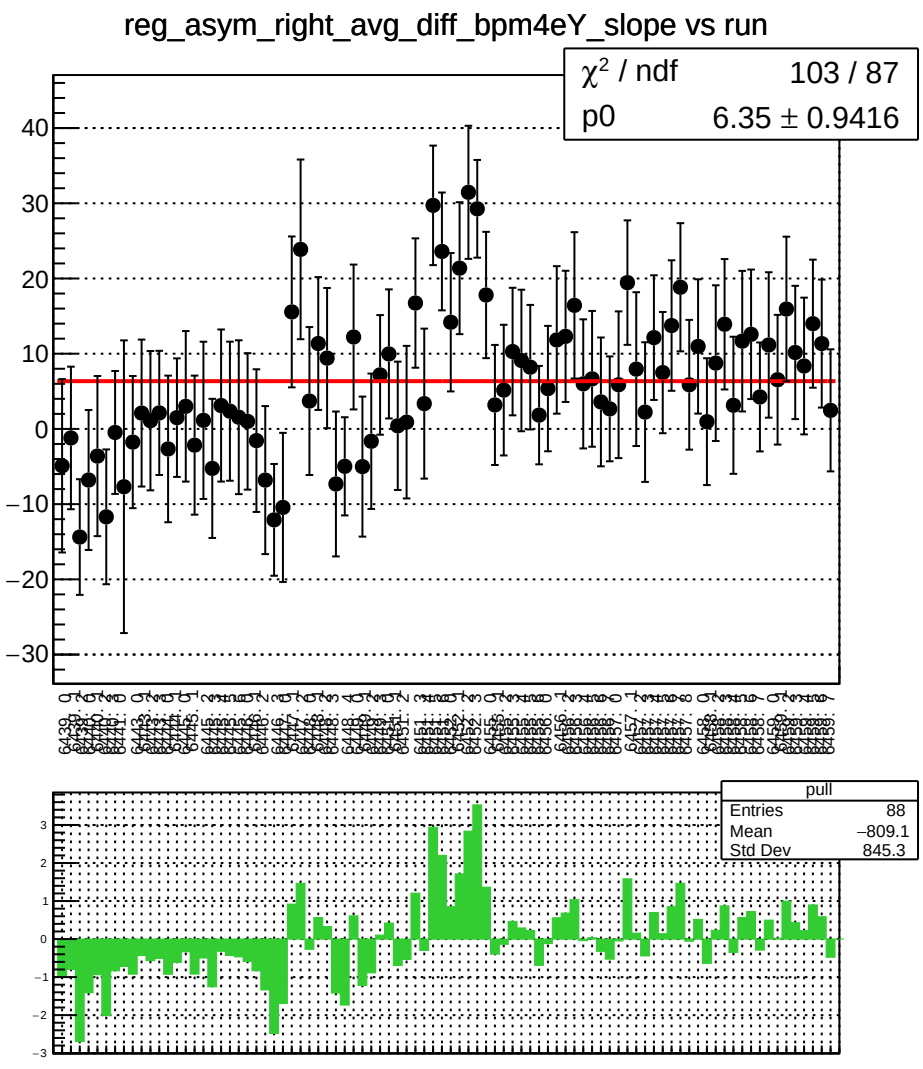

pull1D
Entries 88
Mean −0.1096
Std Dev 1.211

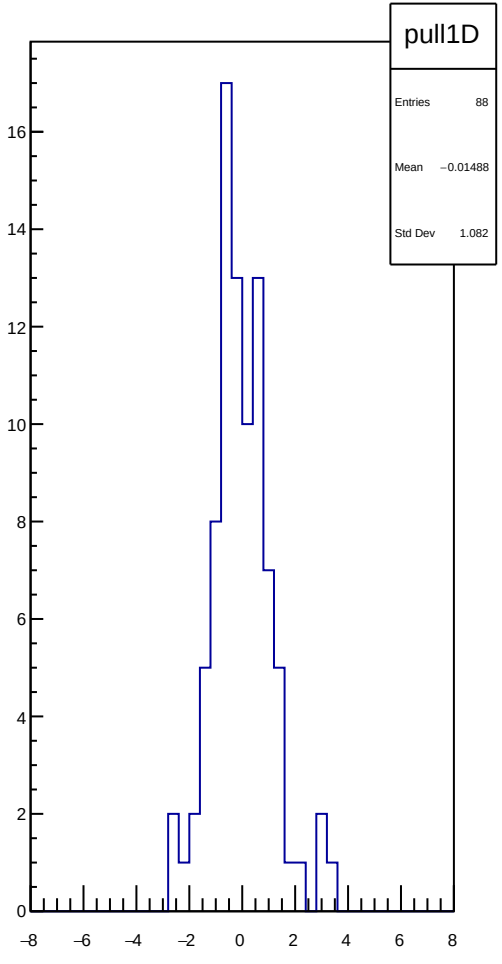

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.96 / 87
p0 0.6849 ± 0.9378
pull
Entries 88
Mean 2438
Std Dev 2403

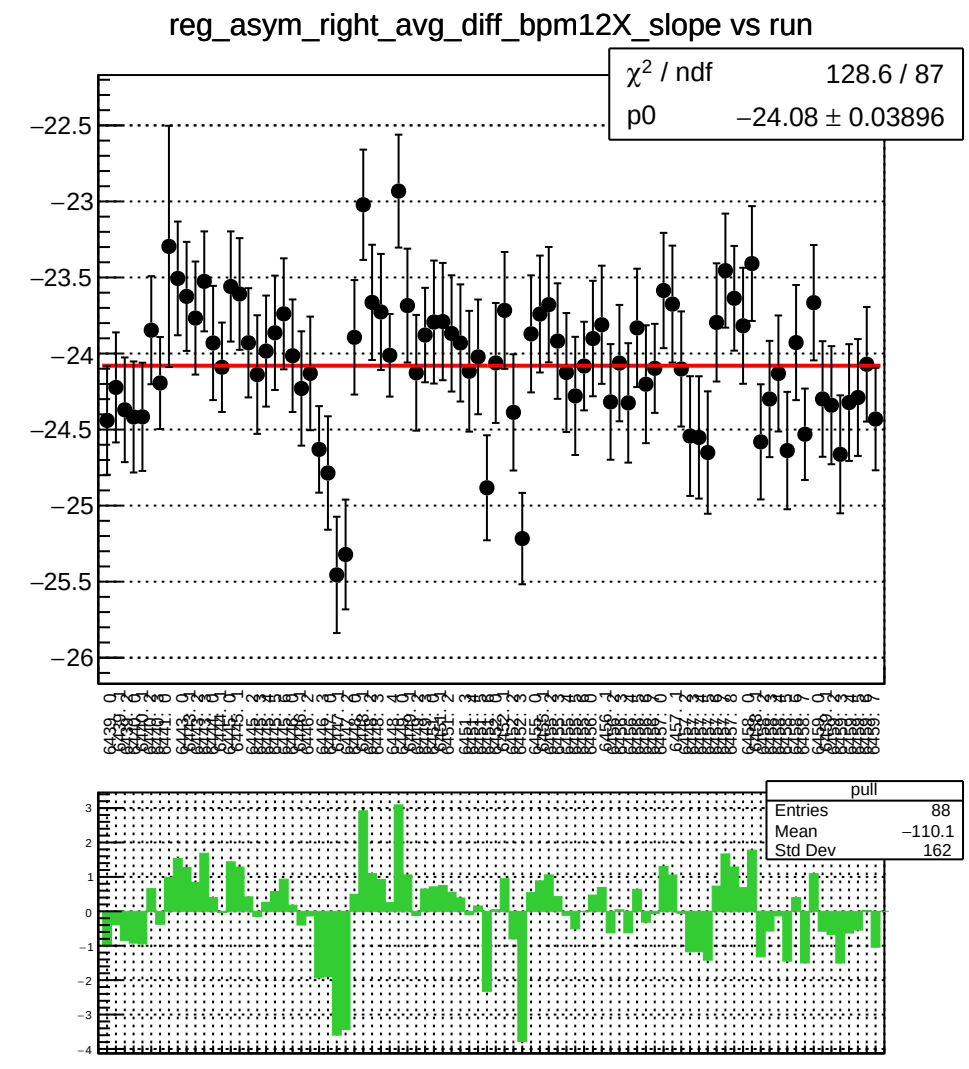

pull1D
Entries 88
Mean −0.003248
Std Dev 0.9168

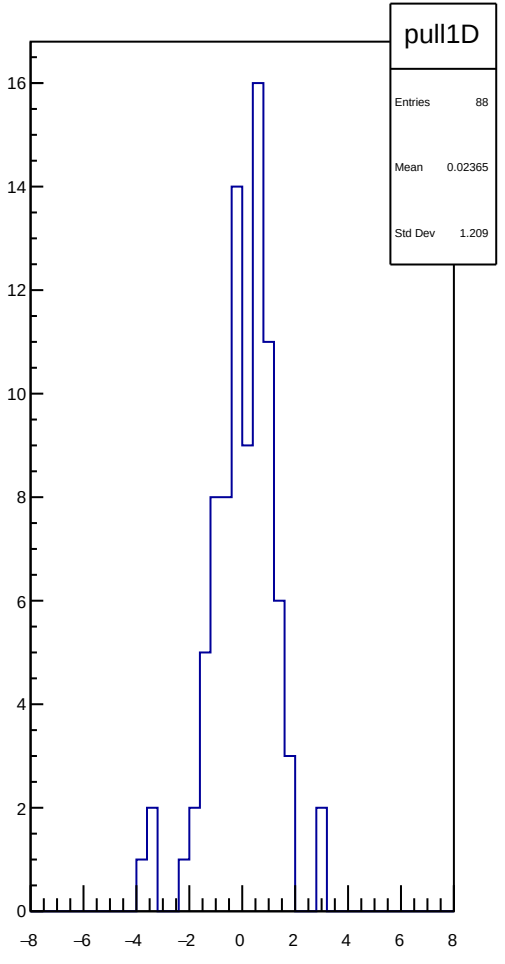

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 130.8 / 87
p0 96.66 ± 1.449
pull
Entries 88
Mean 67.64
Std Dev 36.12

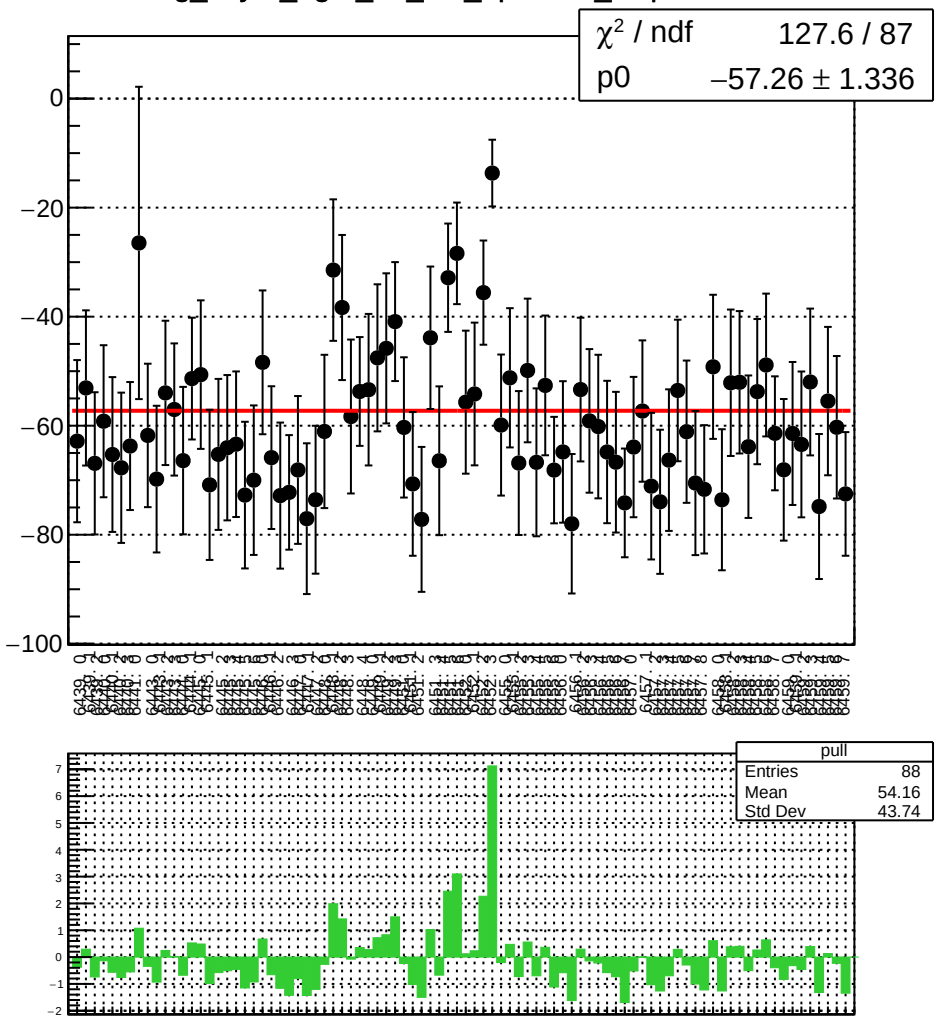

pull1D
Entries 88
Mean 0.1072
Std Dev 1.214

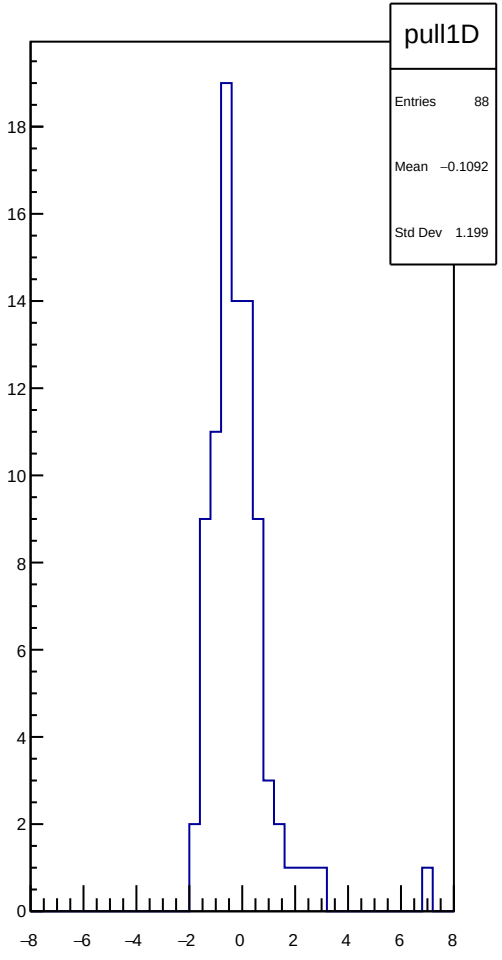

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 103 / 87
p0 6.35 ± 0.9416
pull
Entries 88
Mean −809.1
Std Dev 845.3

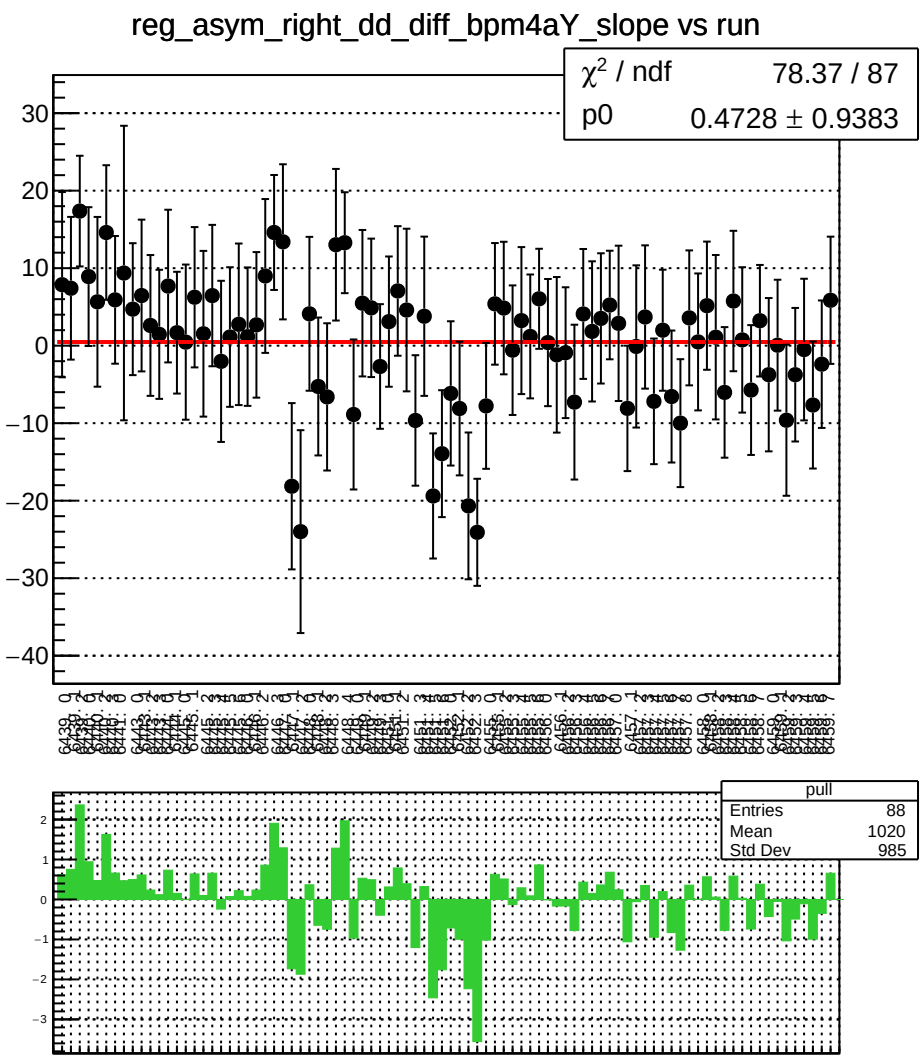

pull1D
Entries 88
Mean −0.01488
Std Dev 1.082

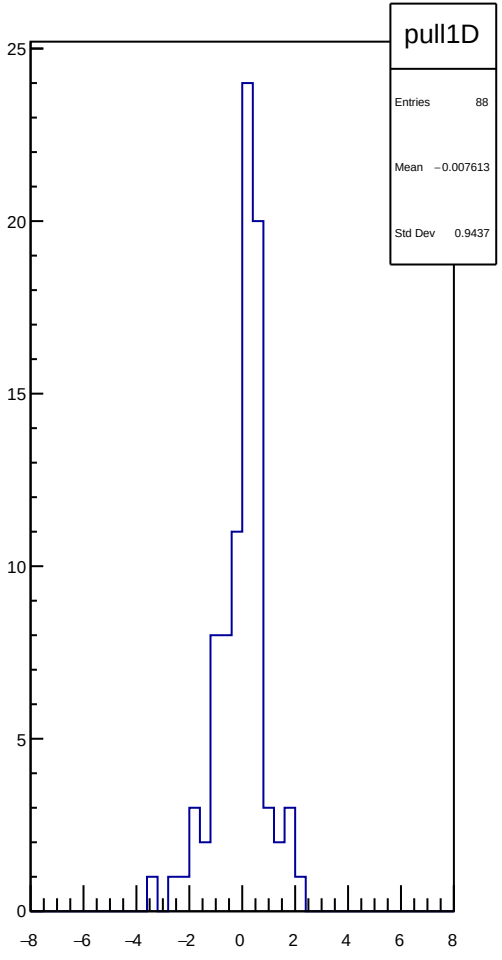

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 128.6 / 87
p0 −24.08 ± 0.03896
pull
Entries 88
Mean −110.1
Std Dev 162

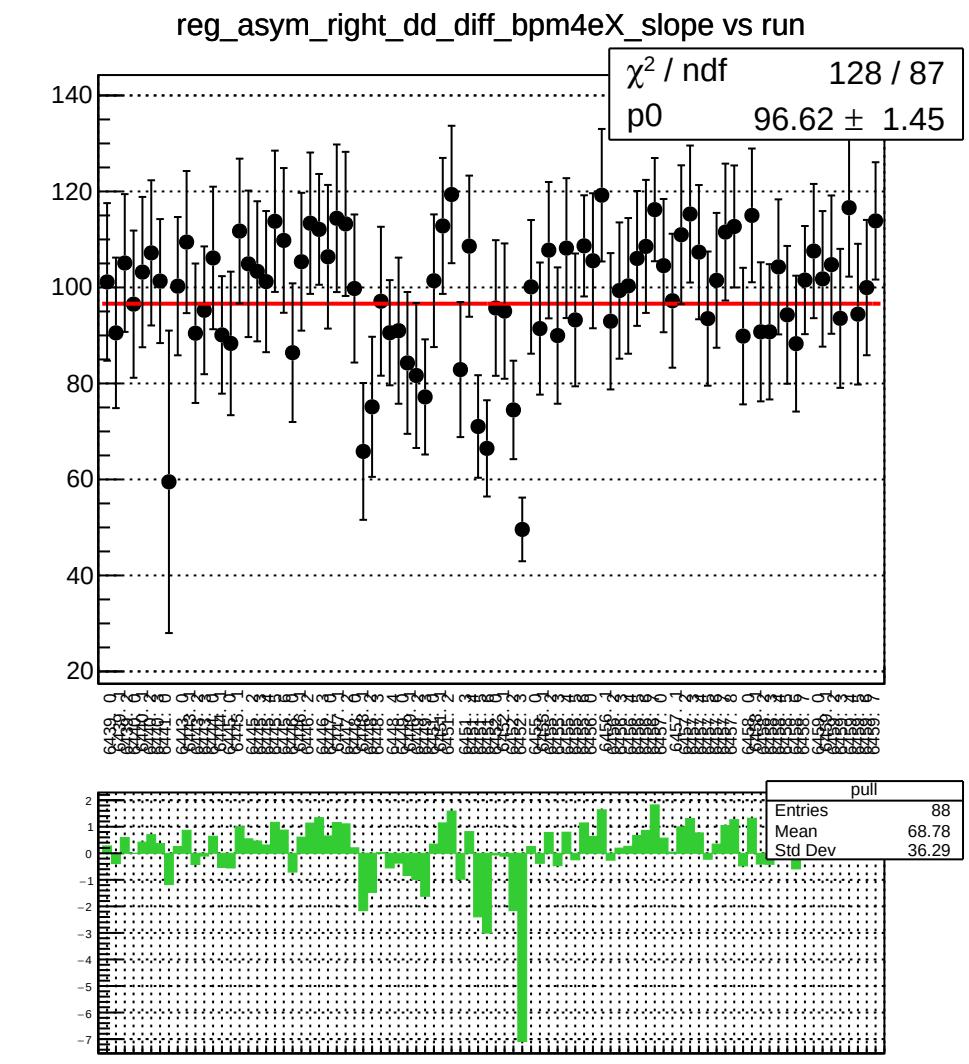

pull1D
Entries 88
Mean 0.02365
Std Dev 1.209

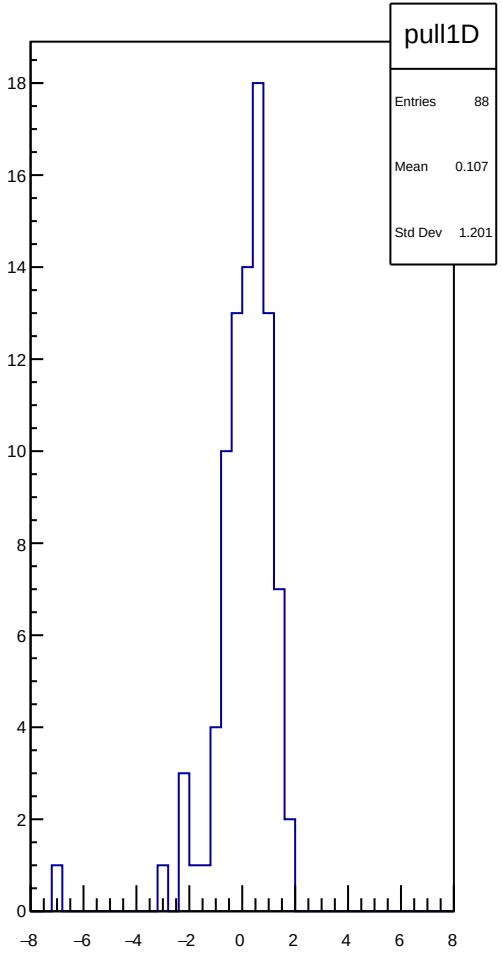

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 127.6 / 87
p0 −57.26 ± 1.336
pull
Entries 88
Mean 54.16
Std Dev 43.74

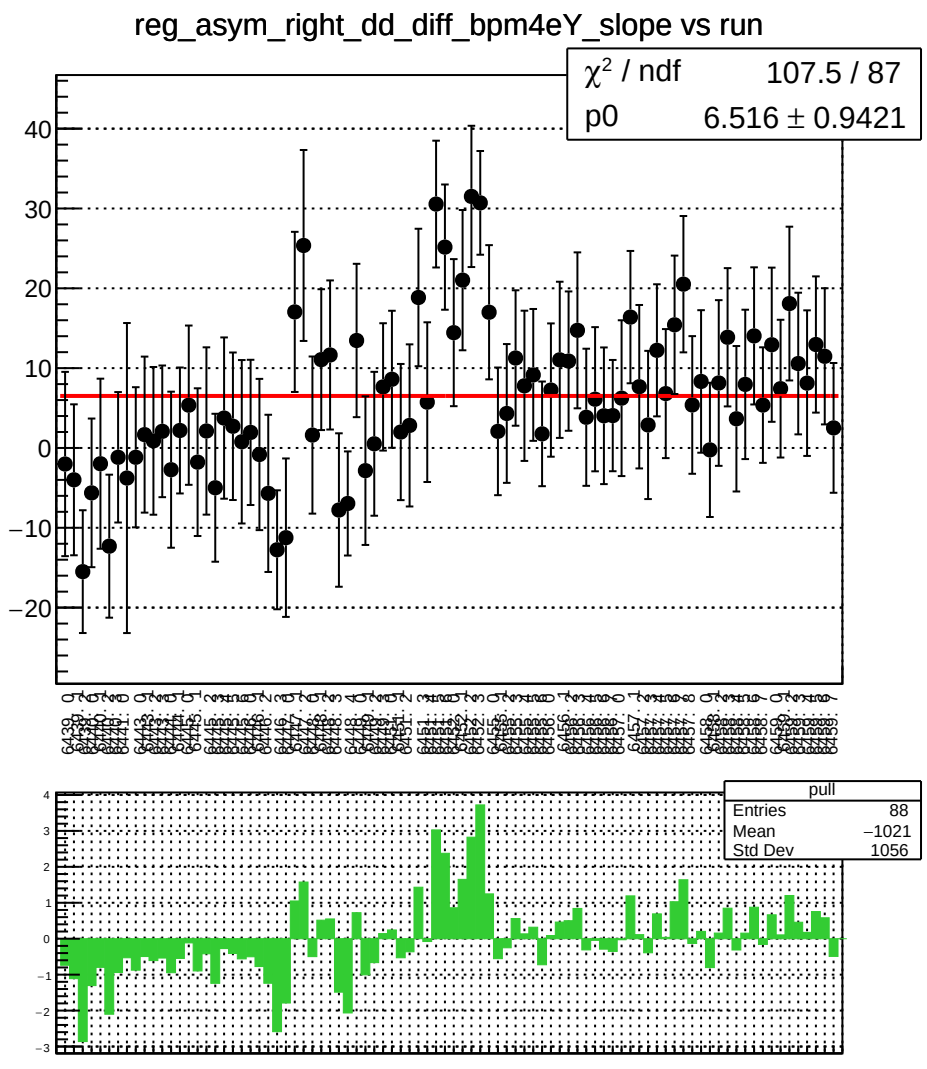

pull1D
Entries 88
Mean −0.1092
Std Dev 1.199

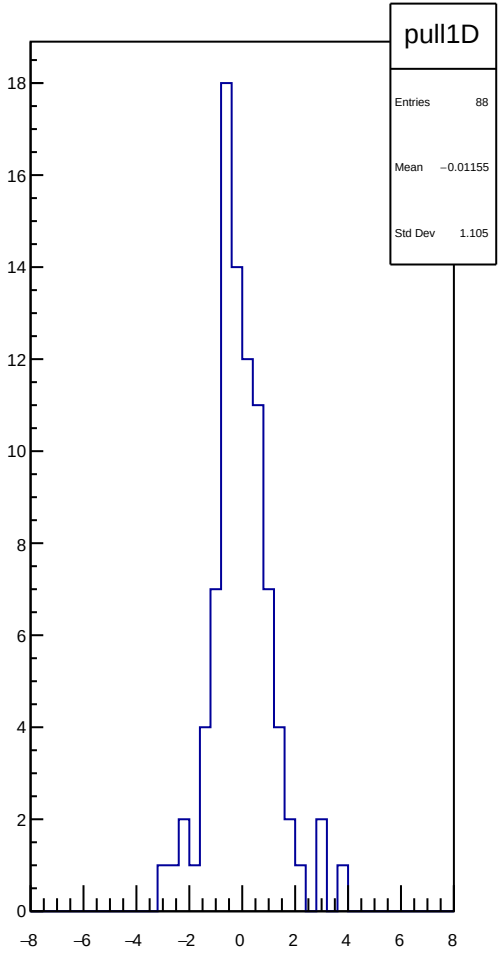

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.37 / 87
p0 0.4728 ± 0.9383
pull
Entries 88
Mean 1020
Std Dev 985

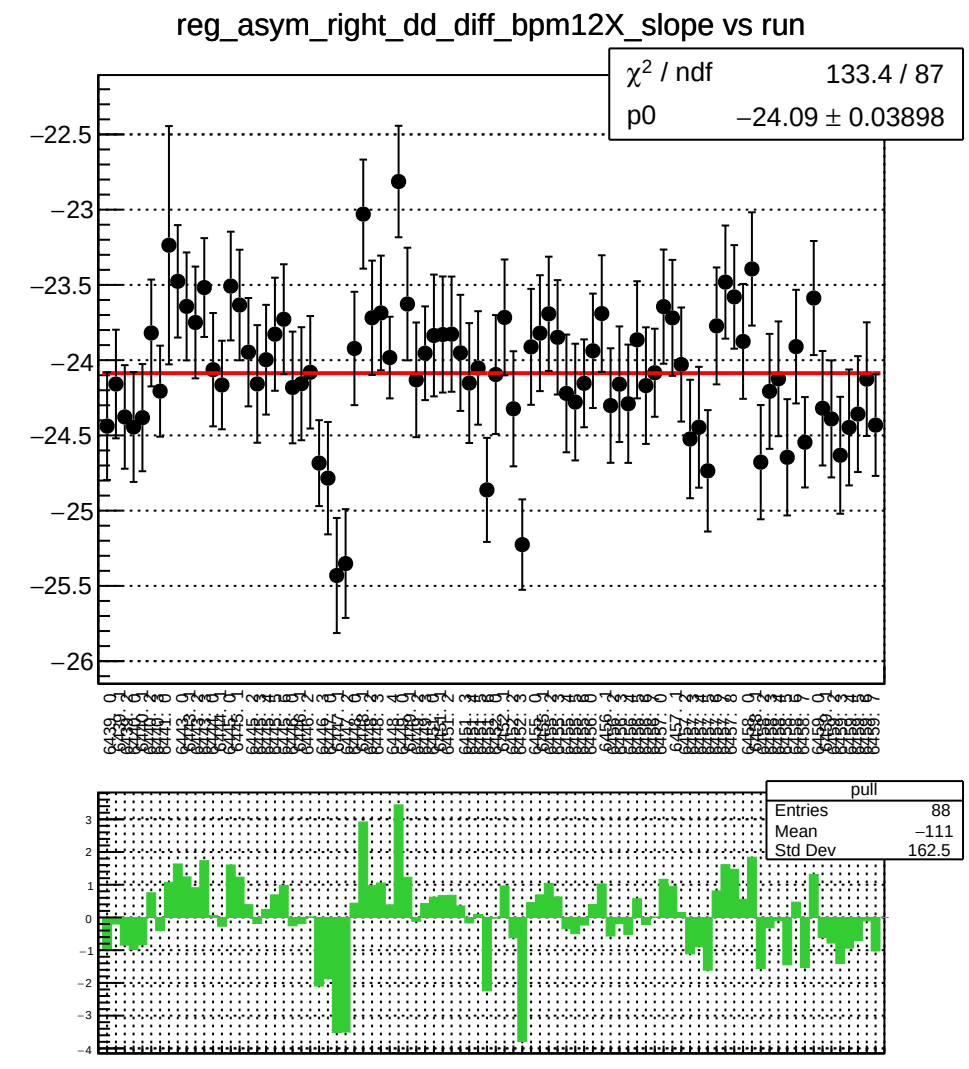

pull1D
Entries 88
Mean −0.007613
Std Dev 0.9437

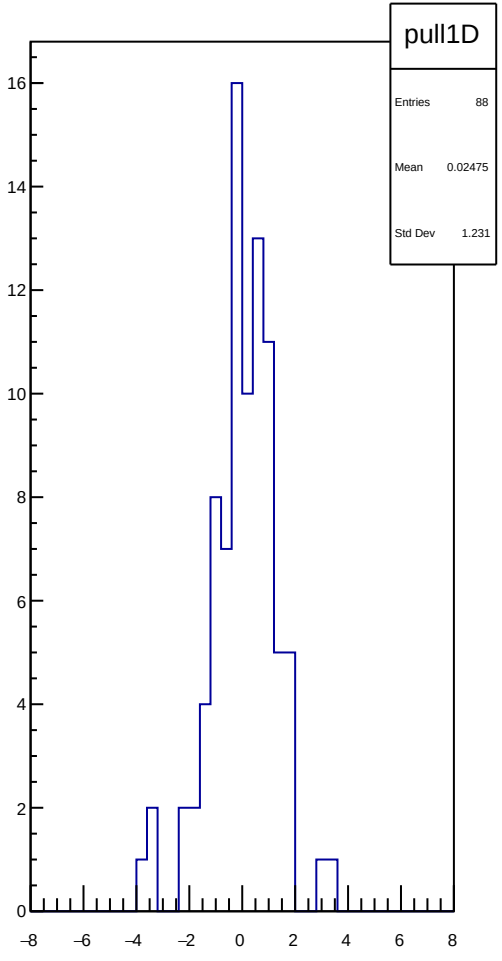

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 128 / 87
p0 96.62 ± 1.45
pull
Entries 88
Mean 68.78
Std Dev 36.29

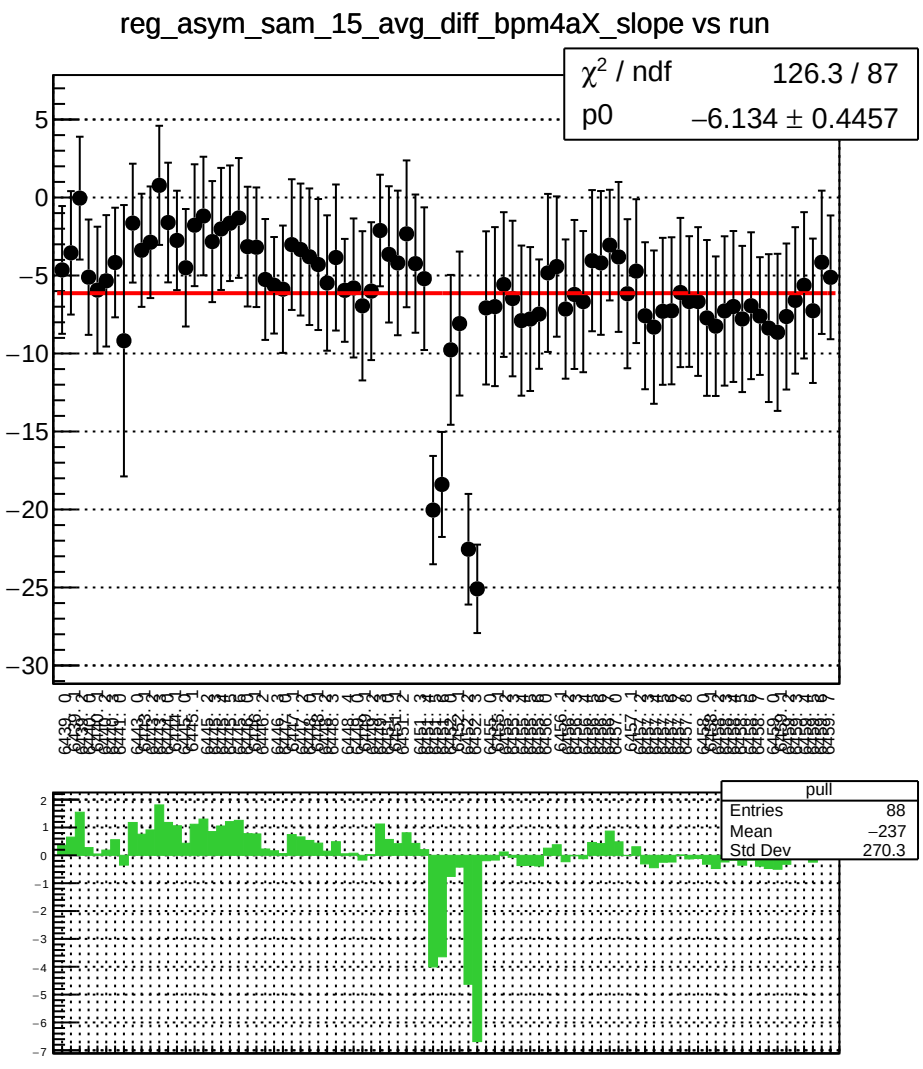

pull1D
Entries 88
Mean 0.107
Std Dev 1.201

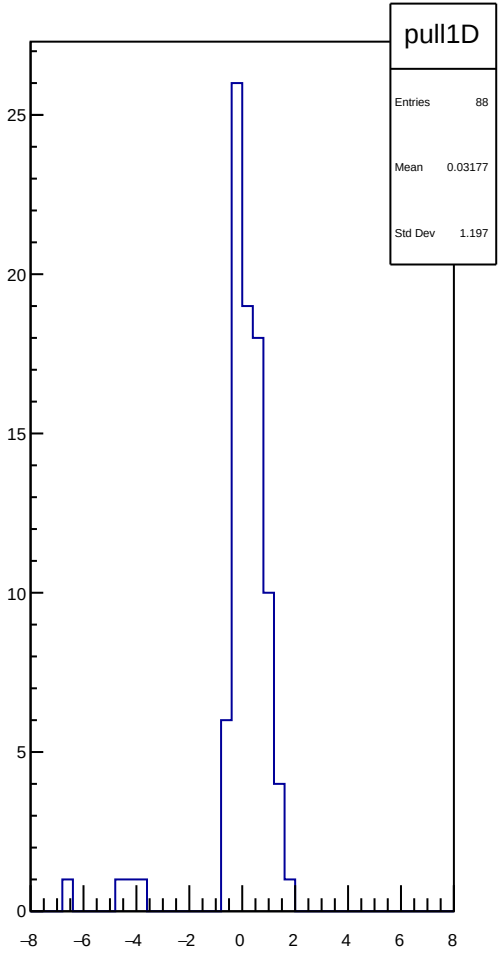

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 107.5 / 87
p0 6.516 ± 0.9421
pull
Entries 88
Mean −1021
Std Dev 1056

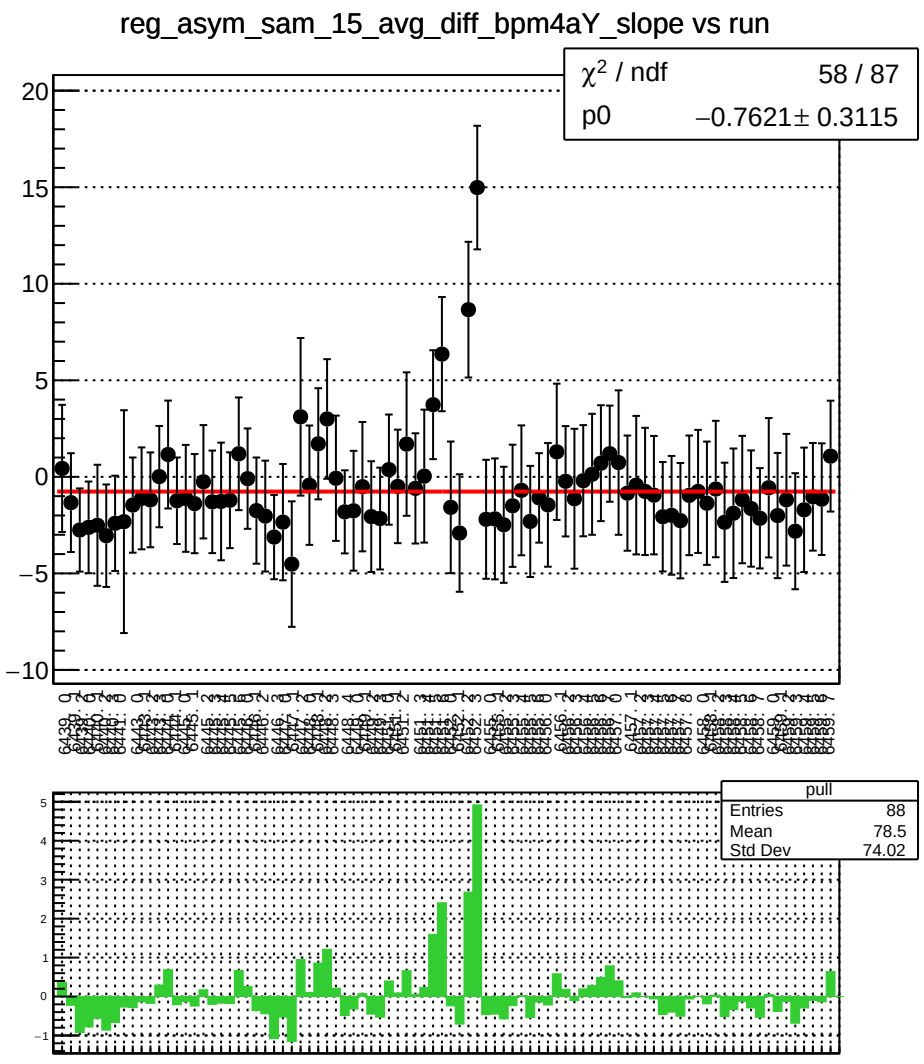

pull1D
Entries 88
Mean −0.01155
Std Dev 1.105

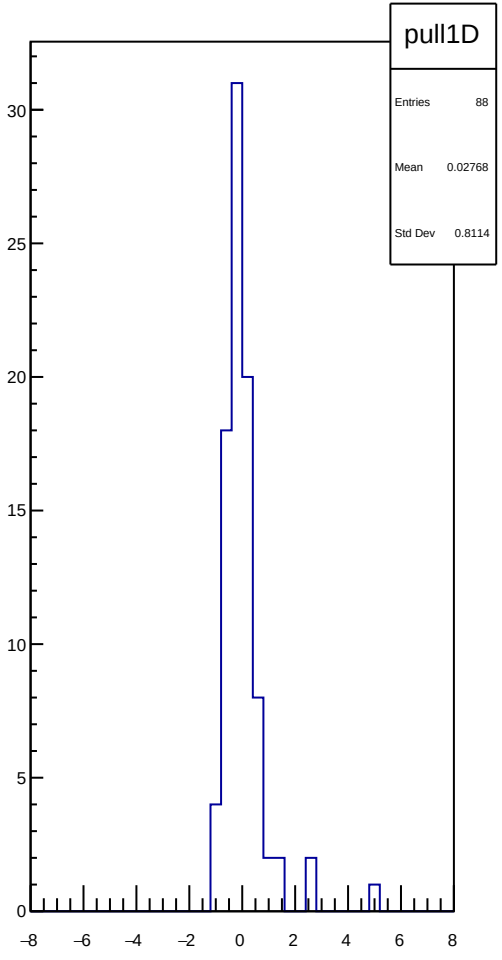

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 133.4 / 87
p0 −24.09 ± 0.03898
pull
Entries 88
Mean −111
Std Dev 162.5

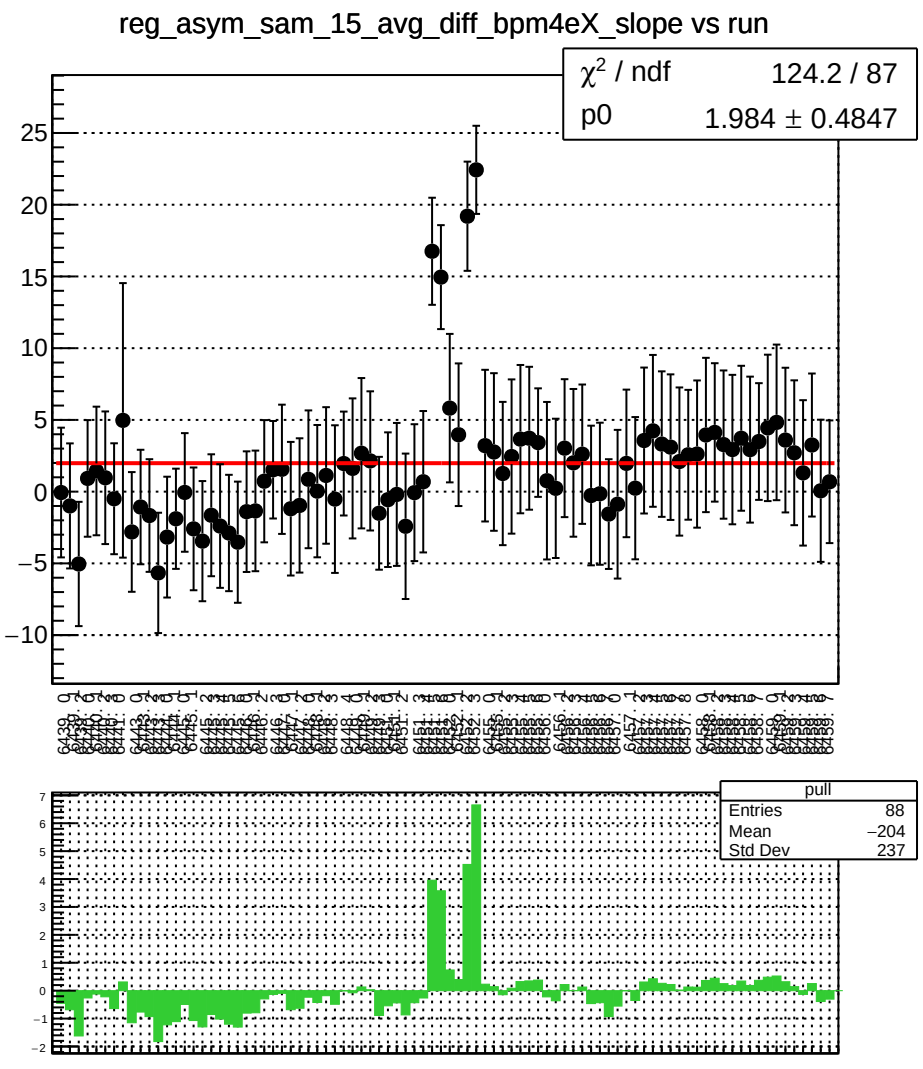

pull1D
Entries 88
Mean 0.02475
Std Dev 1.231

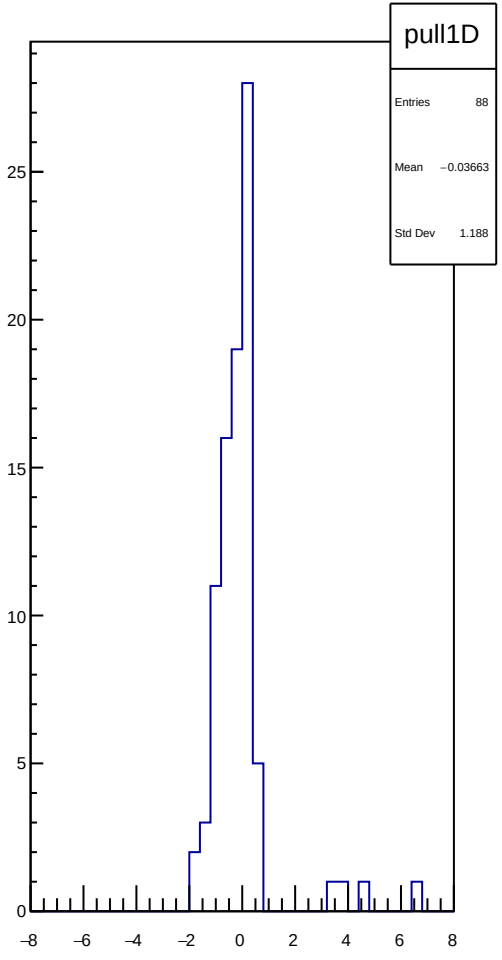

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 126.3 / 87
p0 −6.134 ± 0.4457
pull
Entries 88
Mean −237
Std Dev 270.3

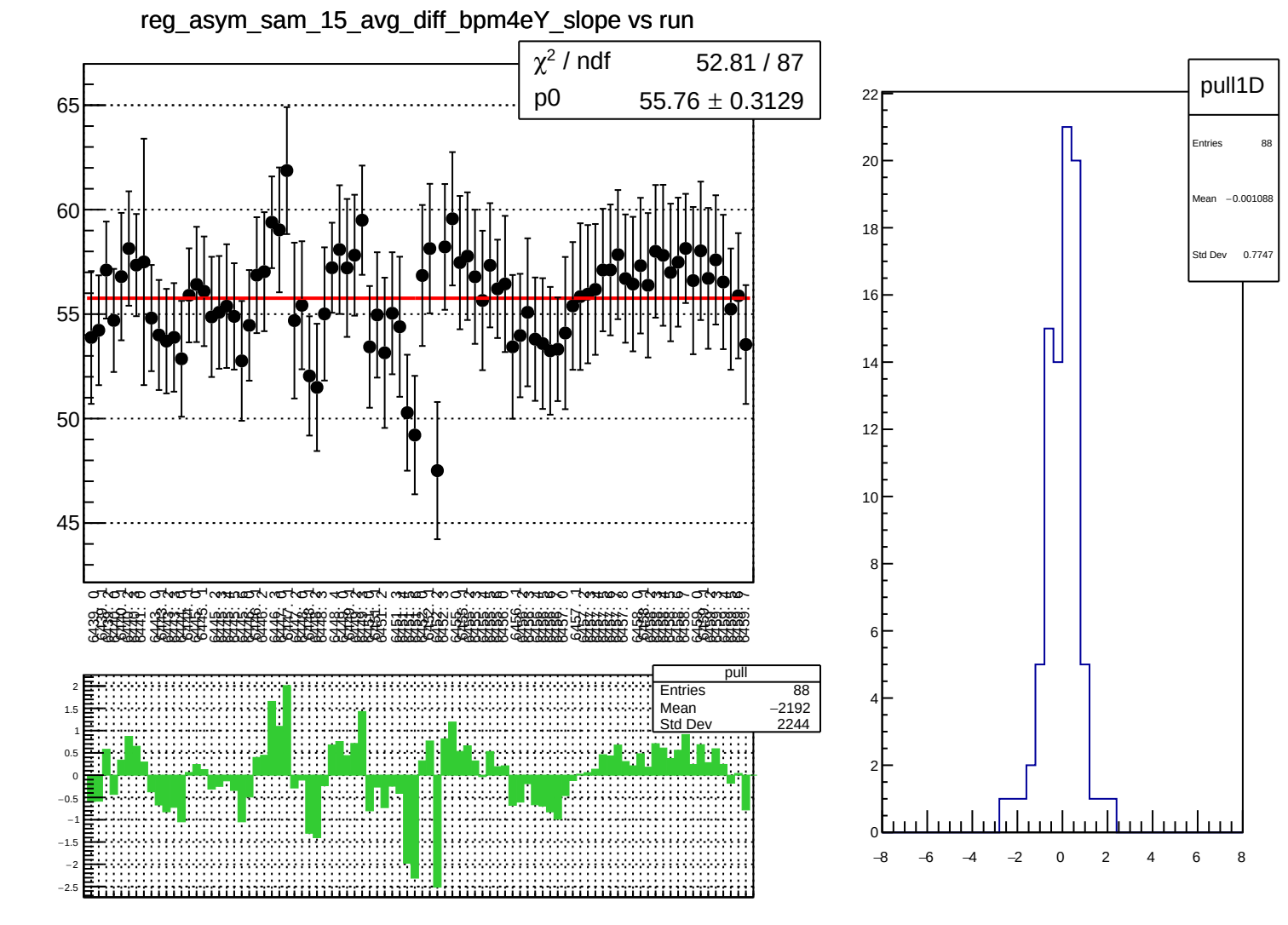

pull1D
Entries 88
Mean 0.03177
Std Dev 1.197

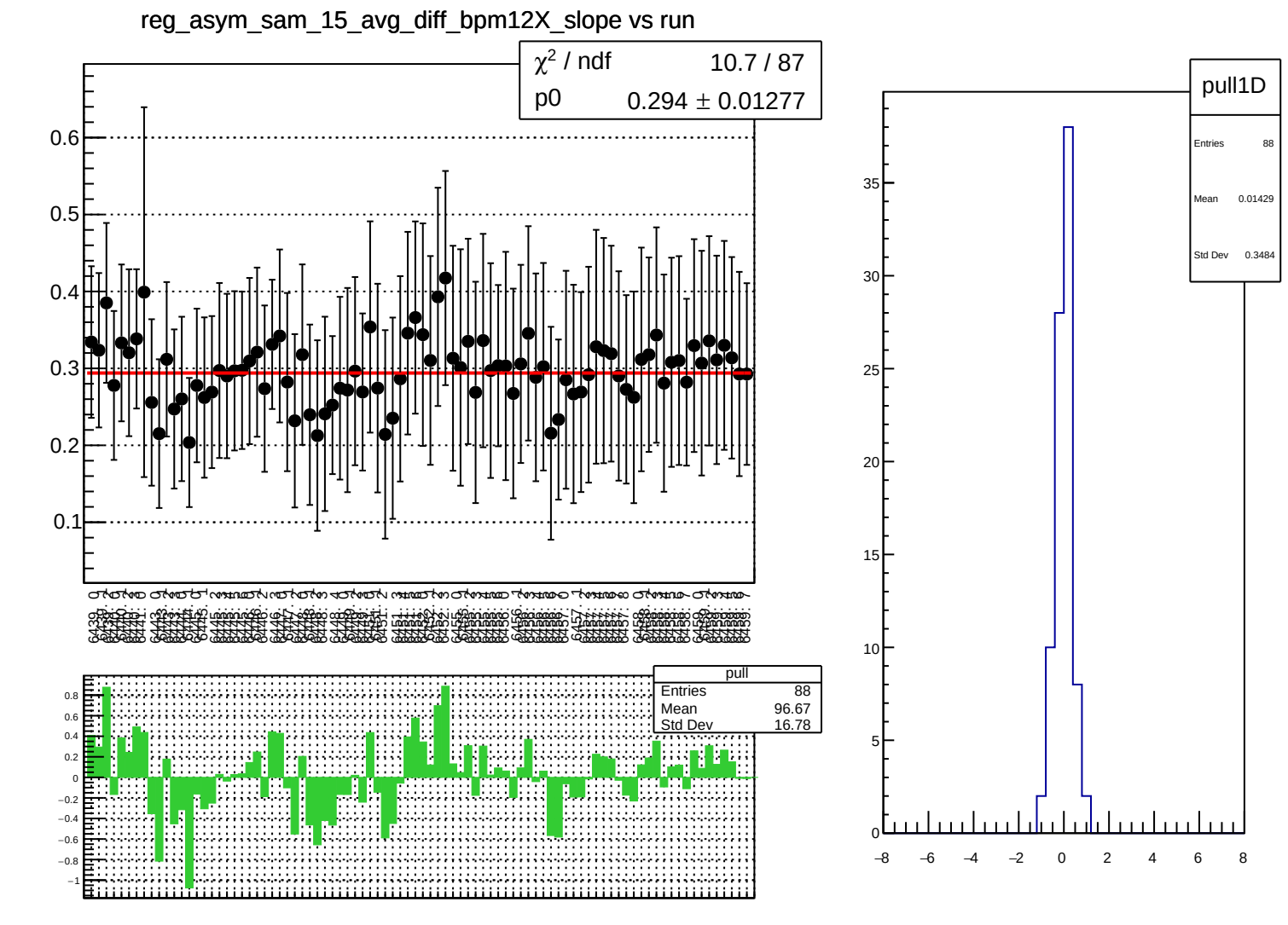

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 58 / 87
p0 −0.7621± 0.3115
pull
Entries 88
Mean 78.5
Std Dev 74.02

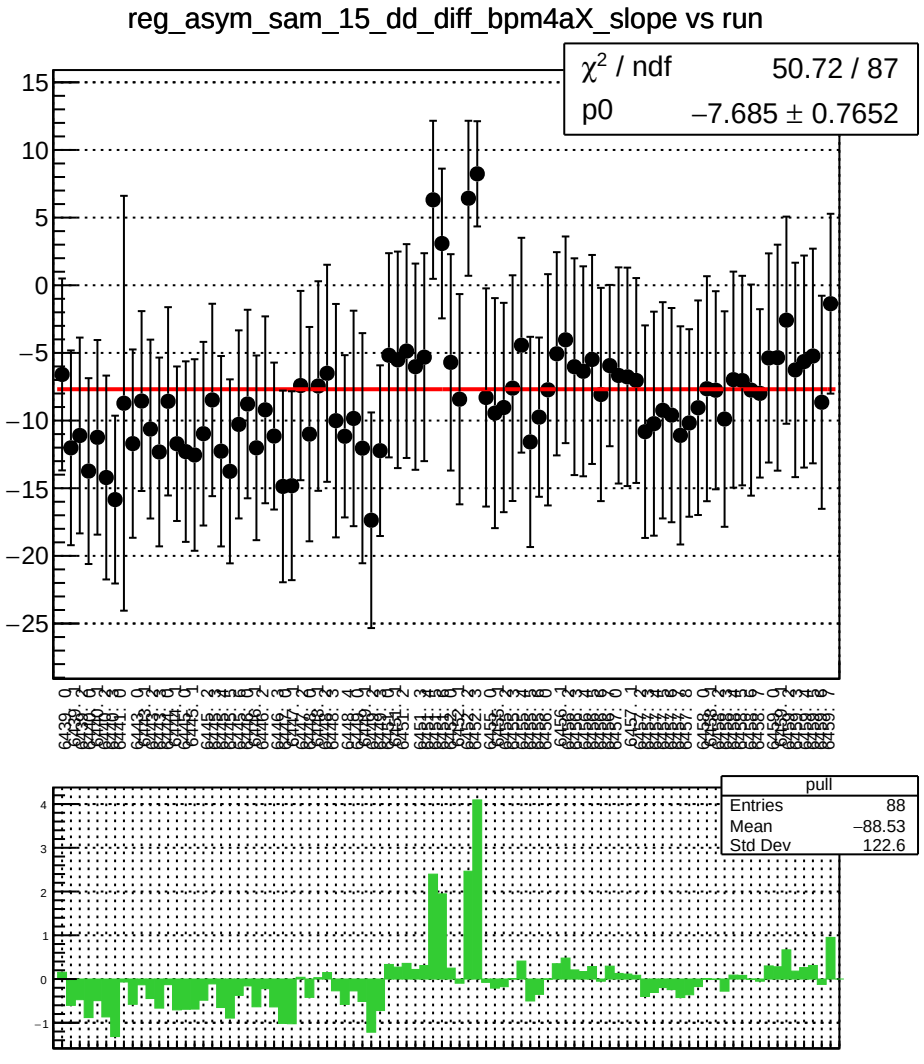

pull1D
Entries 88
Mean 0.02768
Std Dev 0.8114

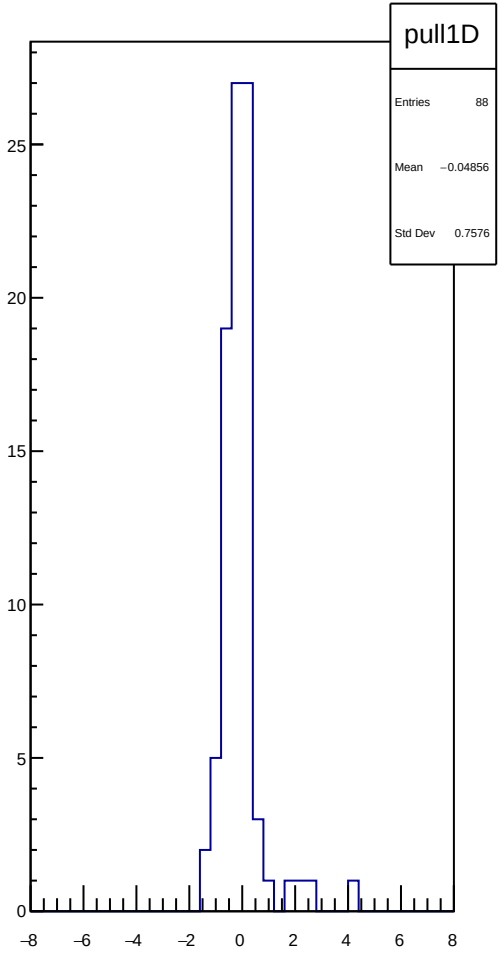

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 124.2 / 87
p0 1.984 ± 0.4847
pull
Entries 88
Mean −204
Std Dev 237

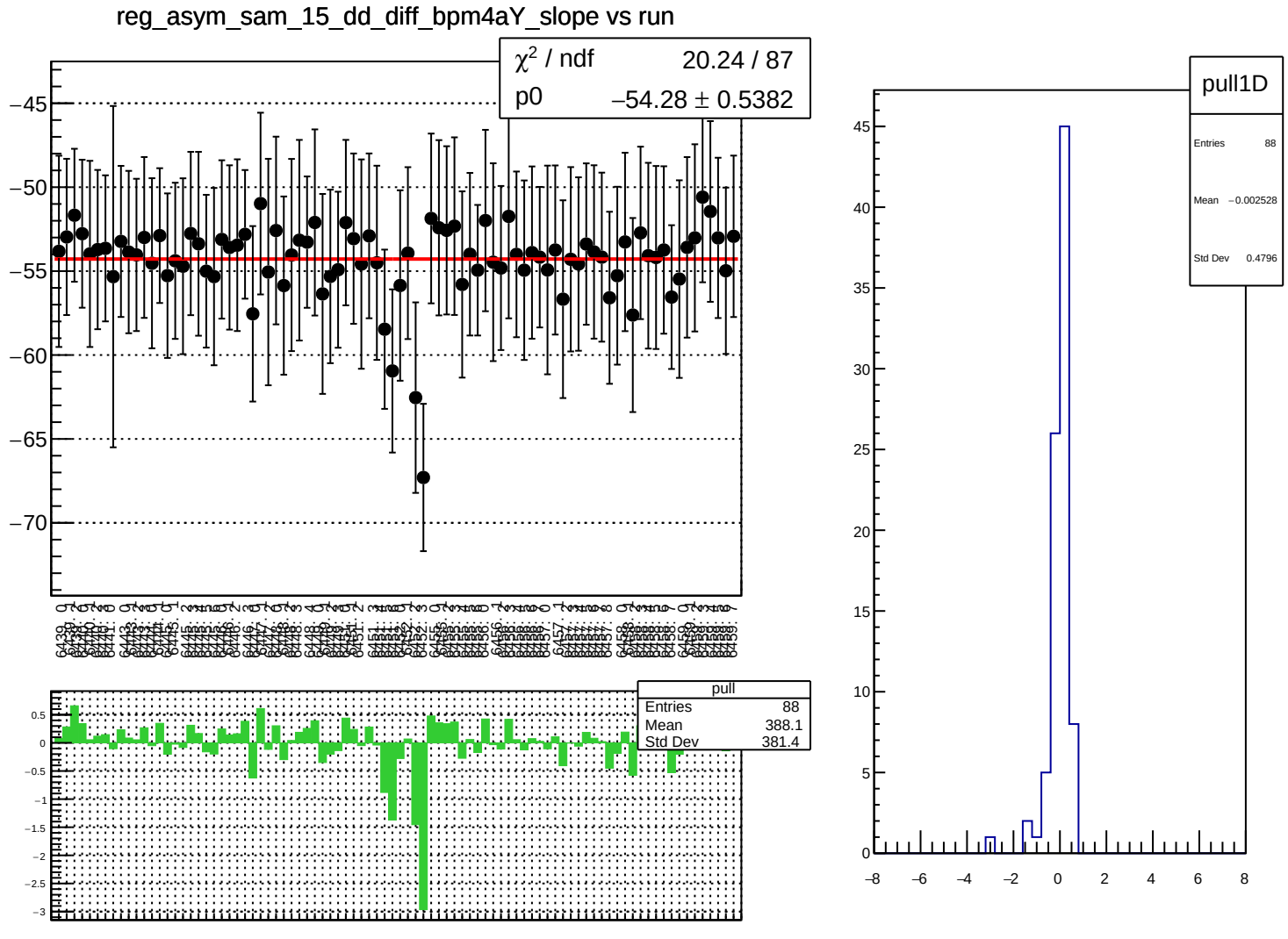

pull1D
Entries 88
Mean −0.03663
Std Dev 1.188

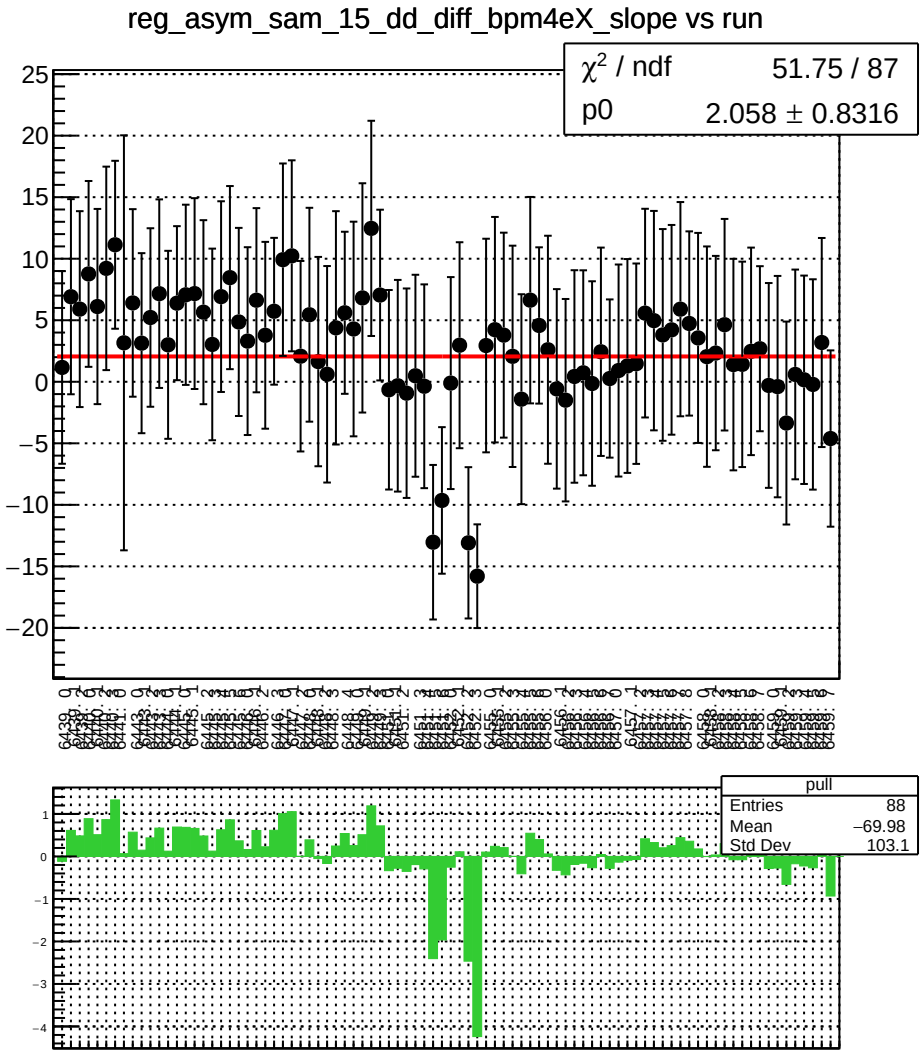

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 52.81 / 87
p0 55.76 ± 0.3129
pull
Entries 88
Mean −2192
Std Dev 2244
pull1D
Entries 88
Mean −0.001088
Std Dev 0.7747

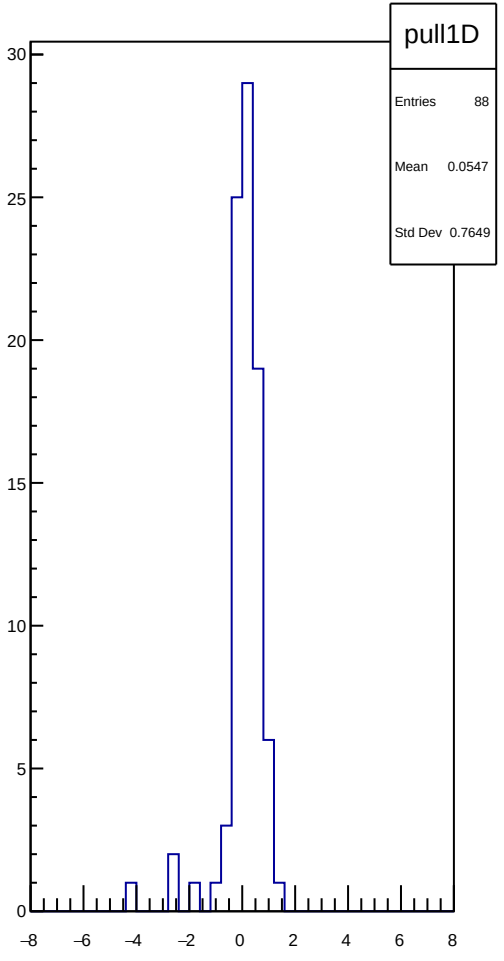

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 10.7 / 87
p0 0.294 ± 0.01277
pull
Entries 88
Mean 96.67
Std Dev 16.78
pull1D
Entries 88
Mean 0.01429
Std Dev 0.3484

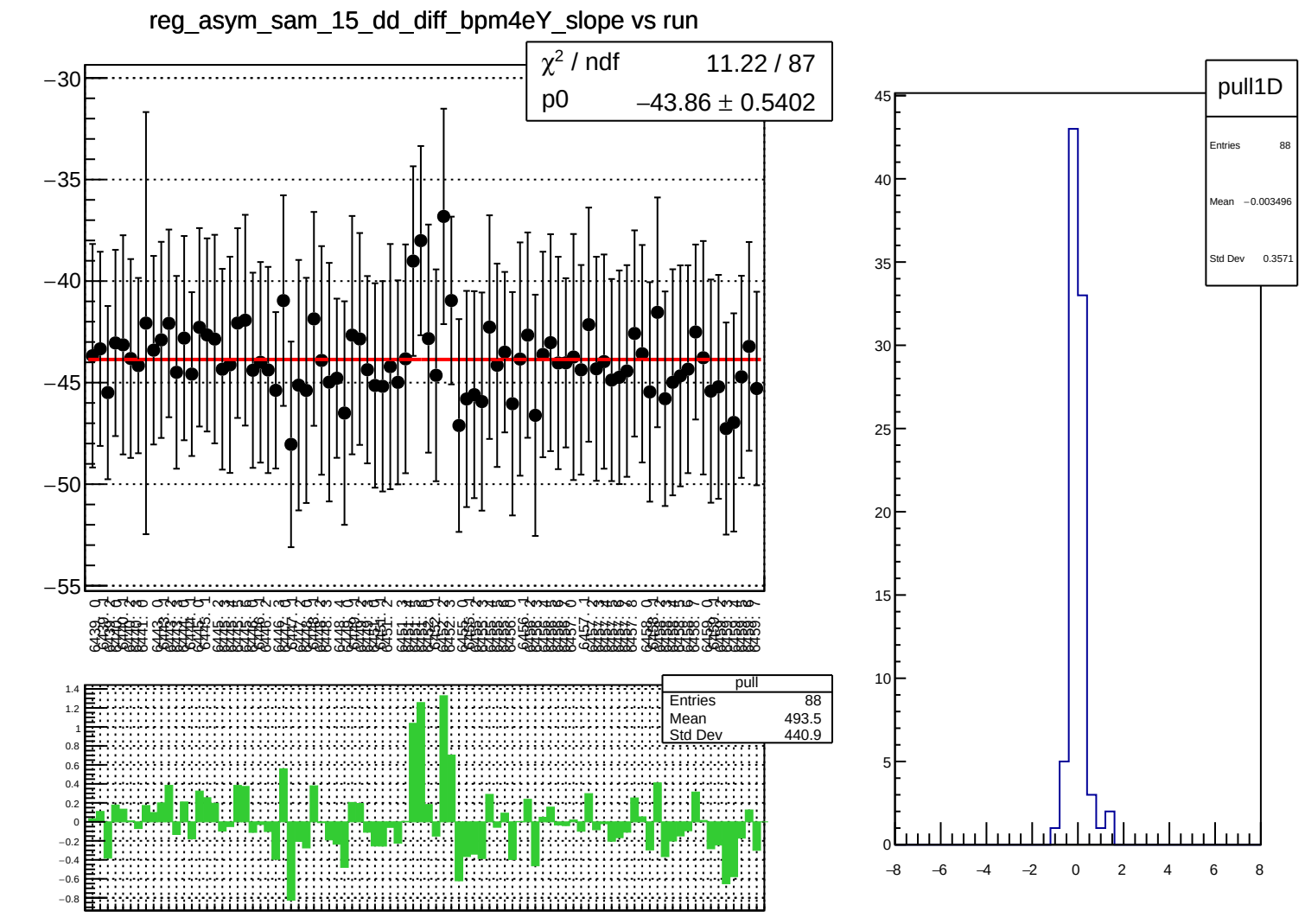

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 50.72 / 87
p0 −7.685 ± 0.7652
pull
Entries 88
Mean −88.53
Std Dev 122.6

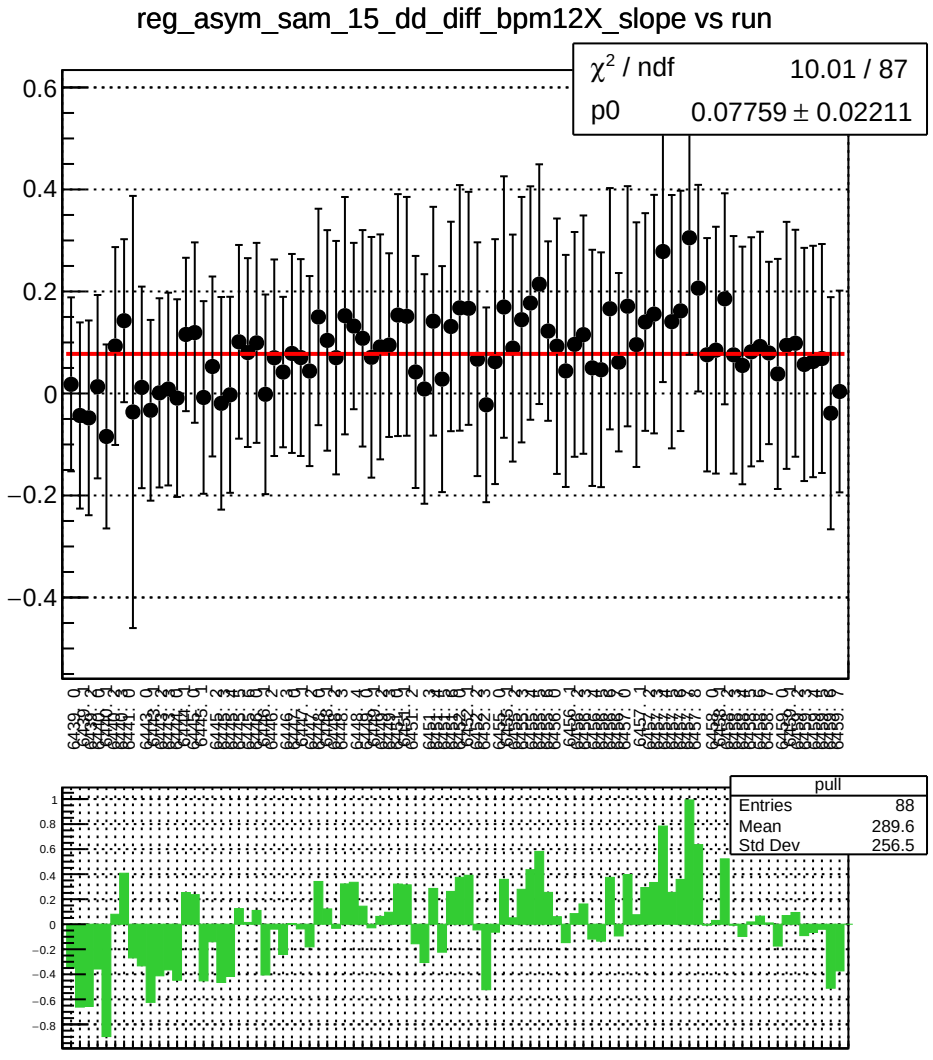

pull1D
Entries 88
Mean −0.04856
Std Dev 0.7576

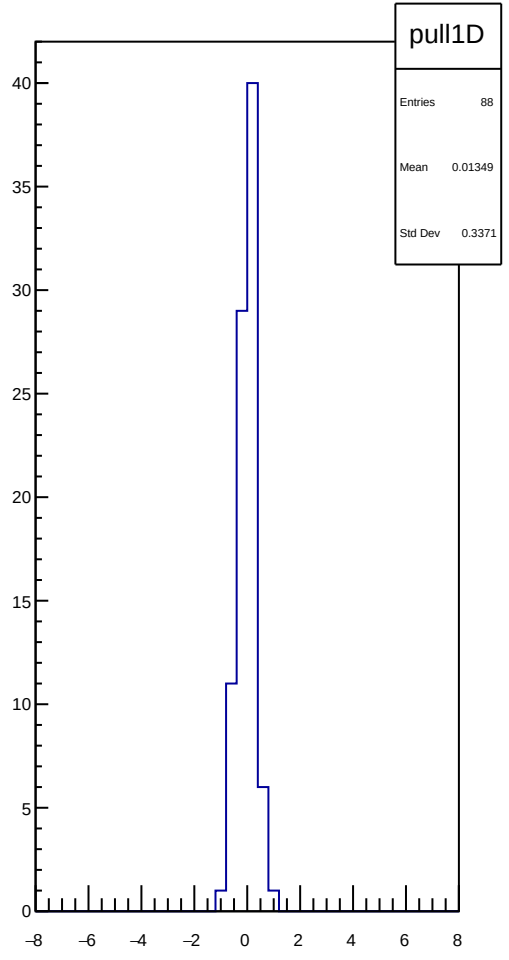

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.24 / 87
p0 −54.28 ± 0.5382
−45
−50
−55
−60
−65
−70
pull
Entries 88
Mean 388.1
Std Dev 381.4
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 88
Mean −0.002528
Std Dev 0.4796
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

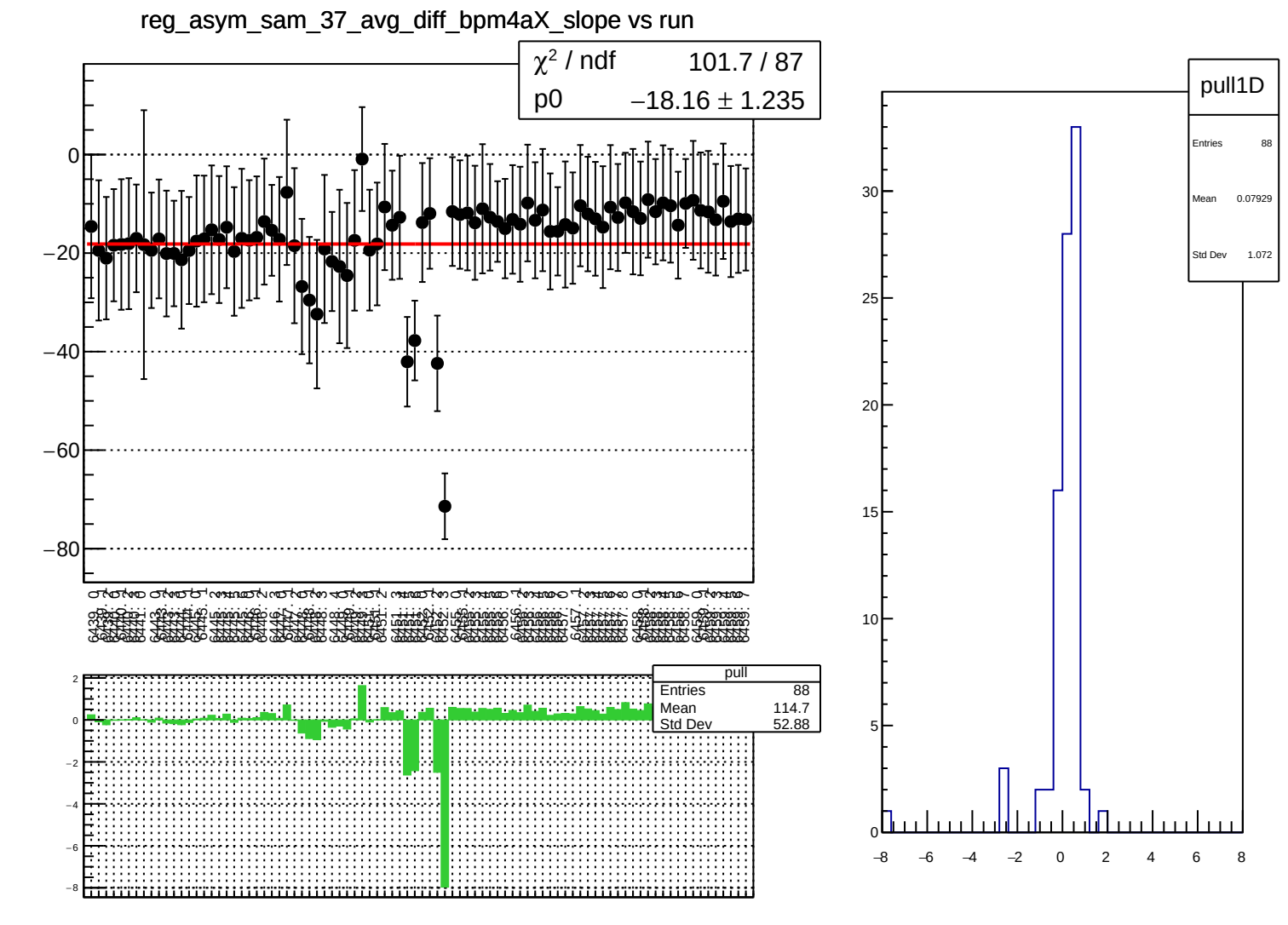

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.75 / 87
p0 2.058 ± 0.8316
pull
Entries 88
Mean −69.98
Std Dev 103.1

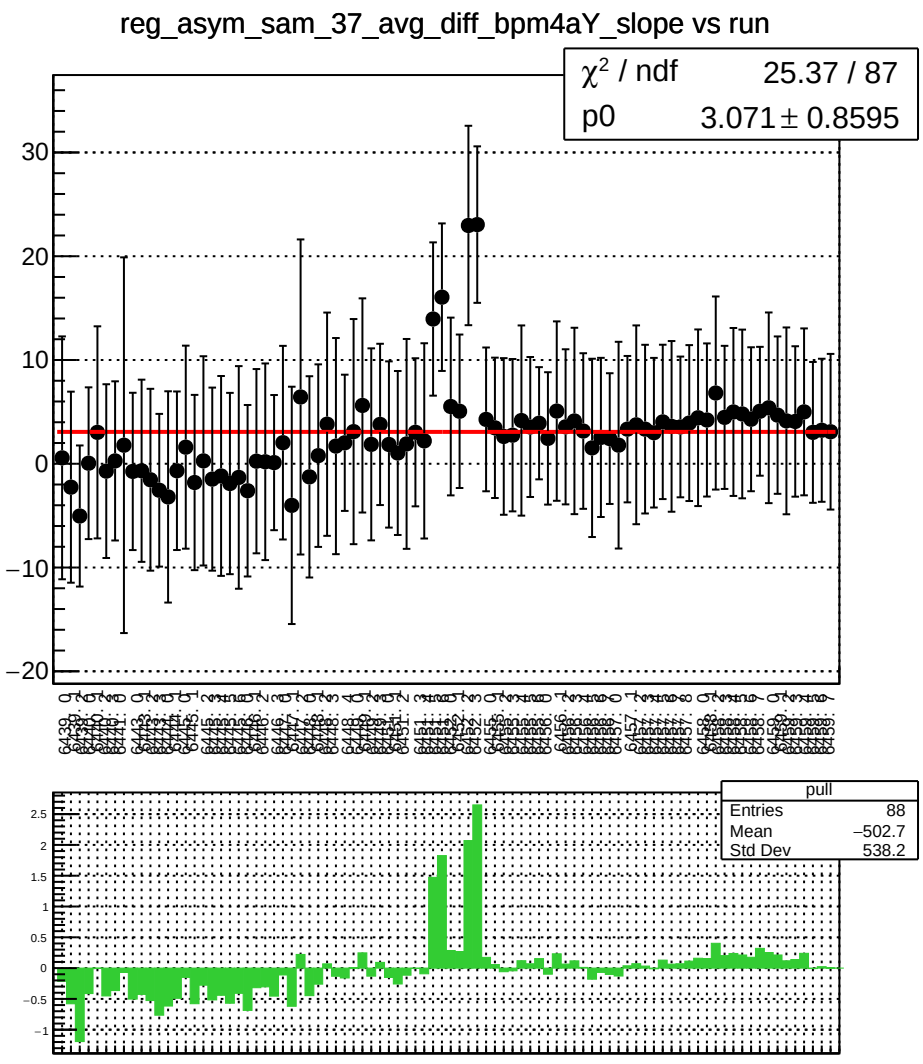

pull1D
Entries 88
Mean 0.0547
Std Dev 0.7649

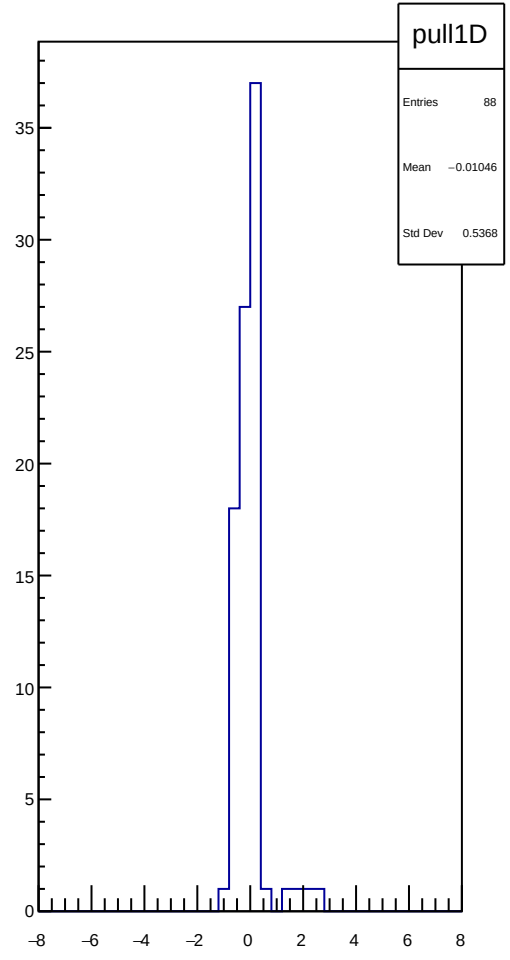

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.22 / 87
p0 −43.86 ± 0.5402
pull
Entries 88
Mean 493.5
Std Dev 440.9
pull1D
Entries 88
Mean −0.003496
Std Dev 0.3571

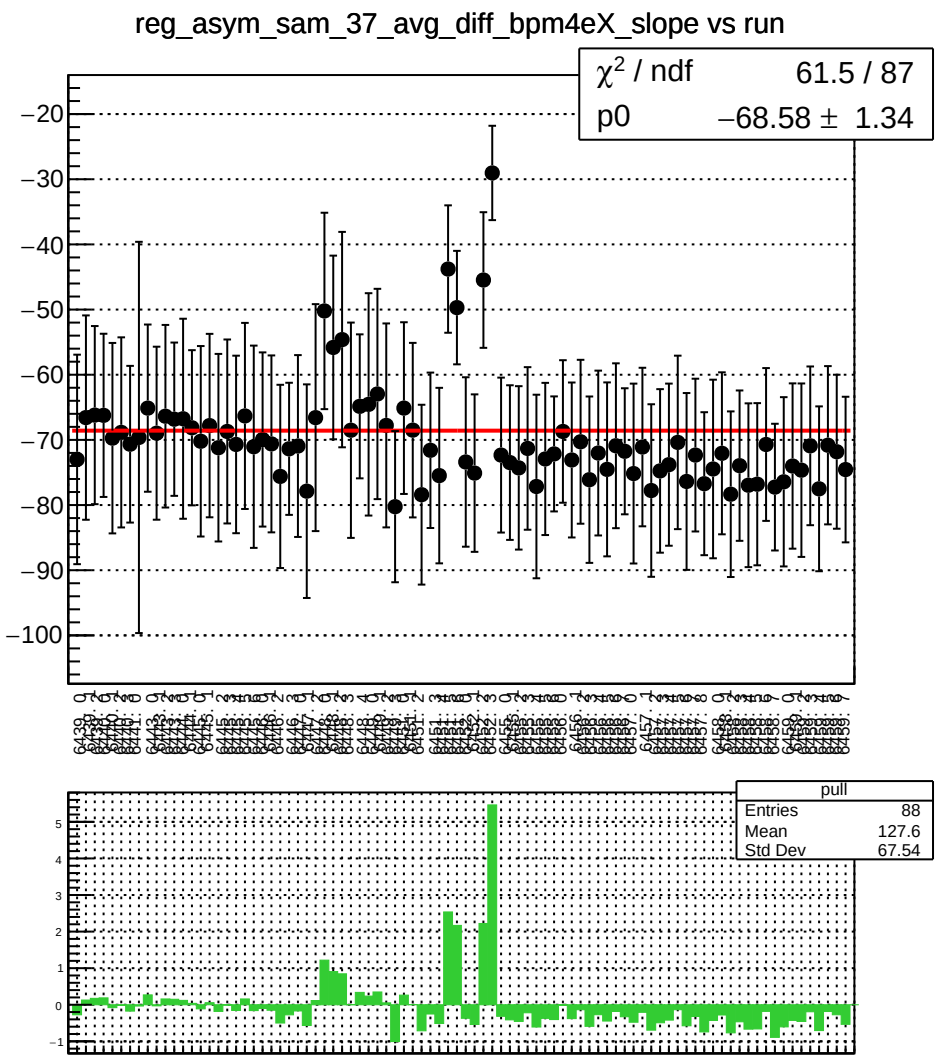

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 10.01 / 87
p0 0.07759 ± 0.02211
pull
Entries 88
Mean 289.6
Std Dev 256.5

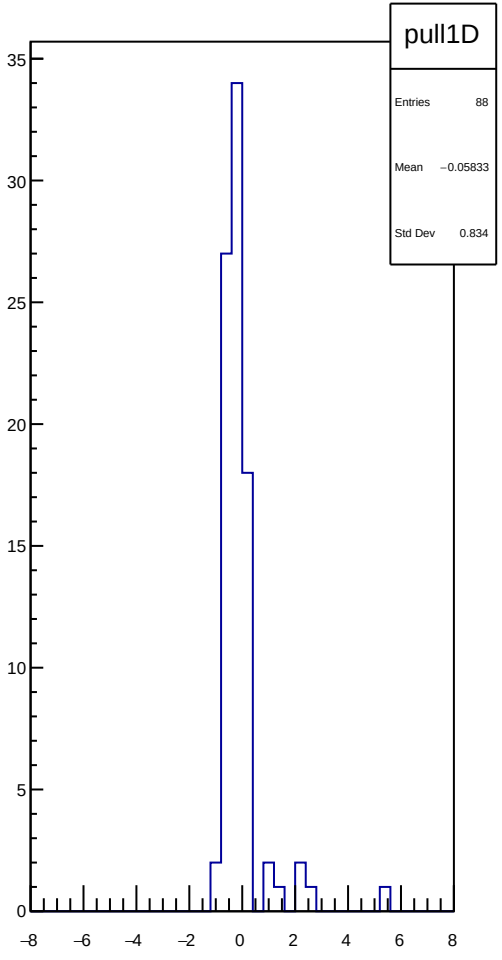

pull1D
Entries 88
Mean 0.01349
Std Dev 0.3371

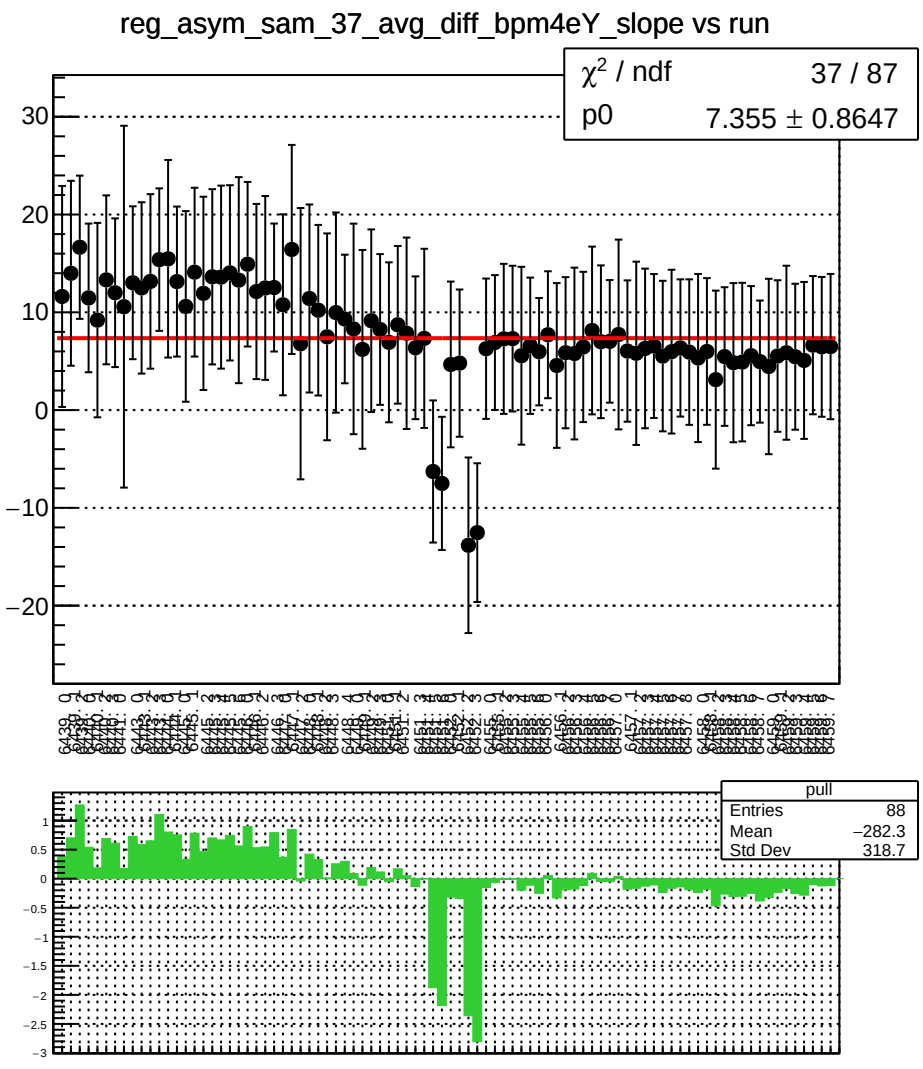

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 101.7 / 87
p0 −18.16 ± 1.235
0
−20
−40
−60
−80
pull
Entries 88
Mean 114.7
Std Dev 52.88
2
0
−2
−4
−6
−8
pull1D
Entries 88
Mean 0.07929
Std Dev 1.072
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

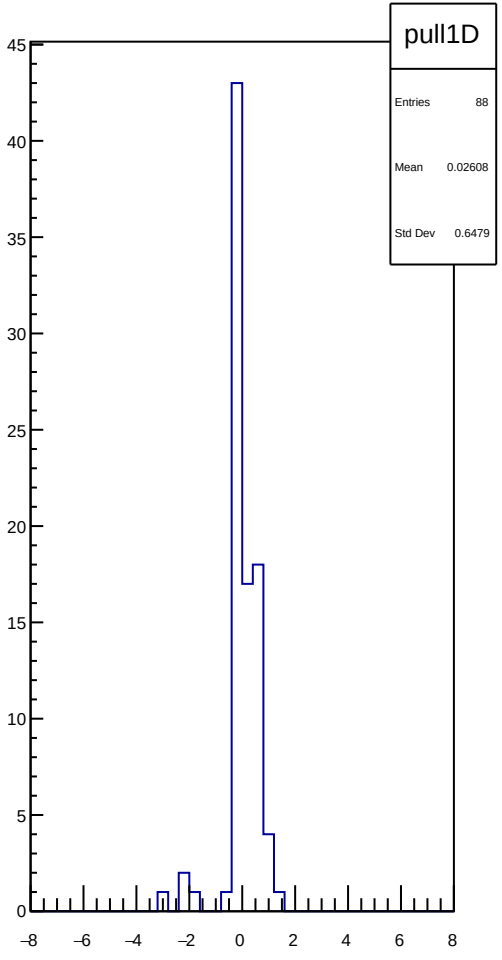

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.37 / 87
p0 3.071 ± 0.8595
pull
Entries 88
Mean −502.7
Std Dev 538.2

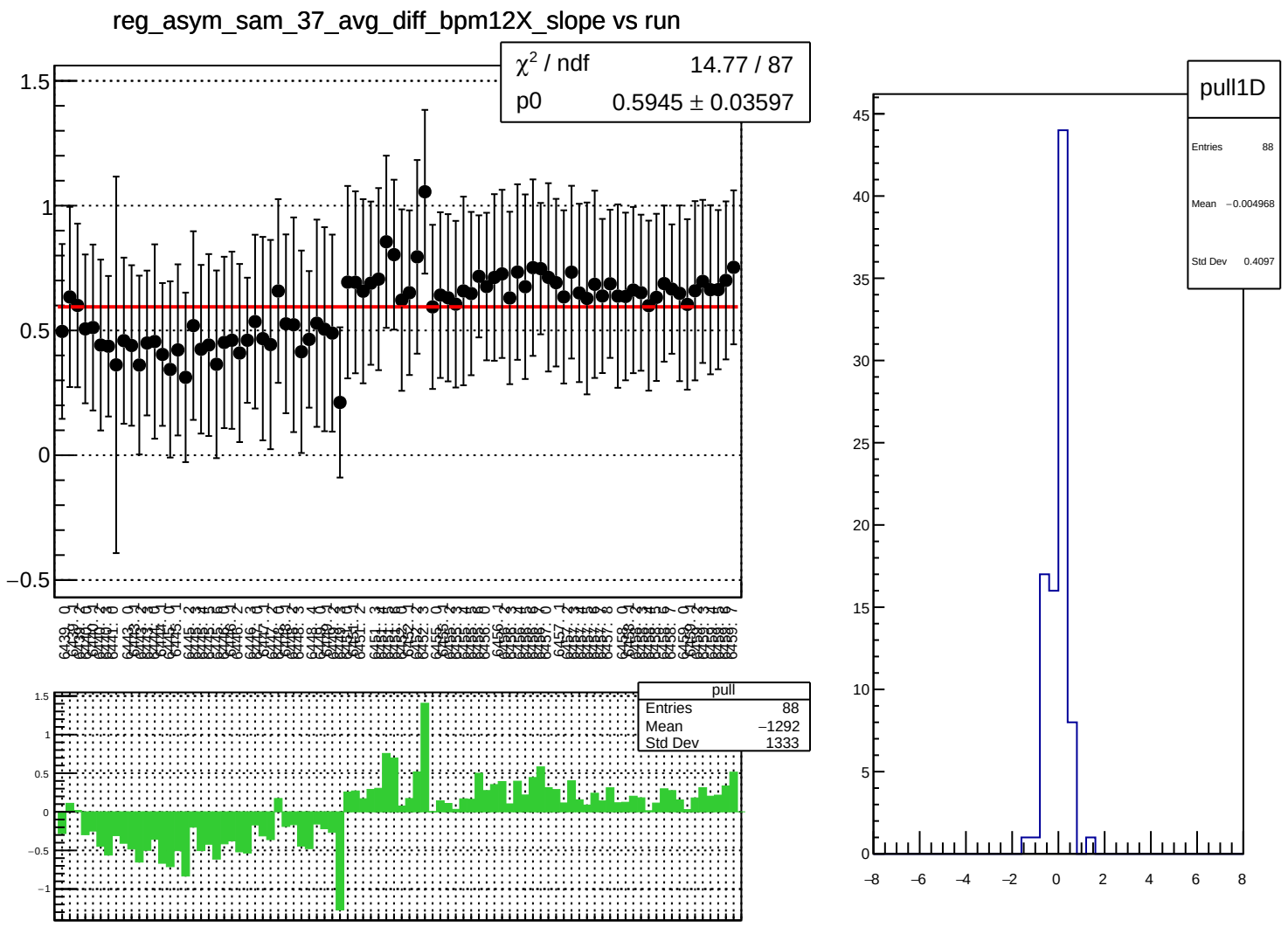

pull1D
Entries 88
Mean −0.01046
Std Dev 0.5368

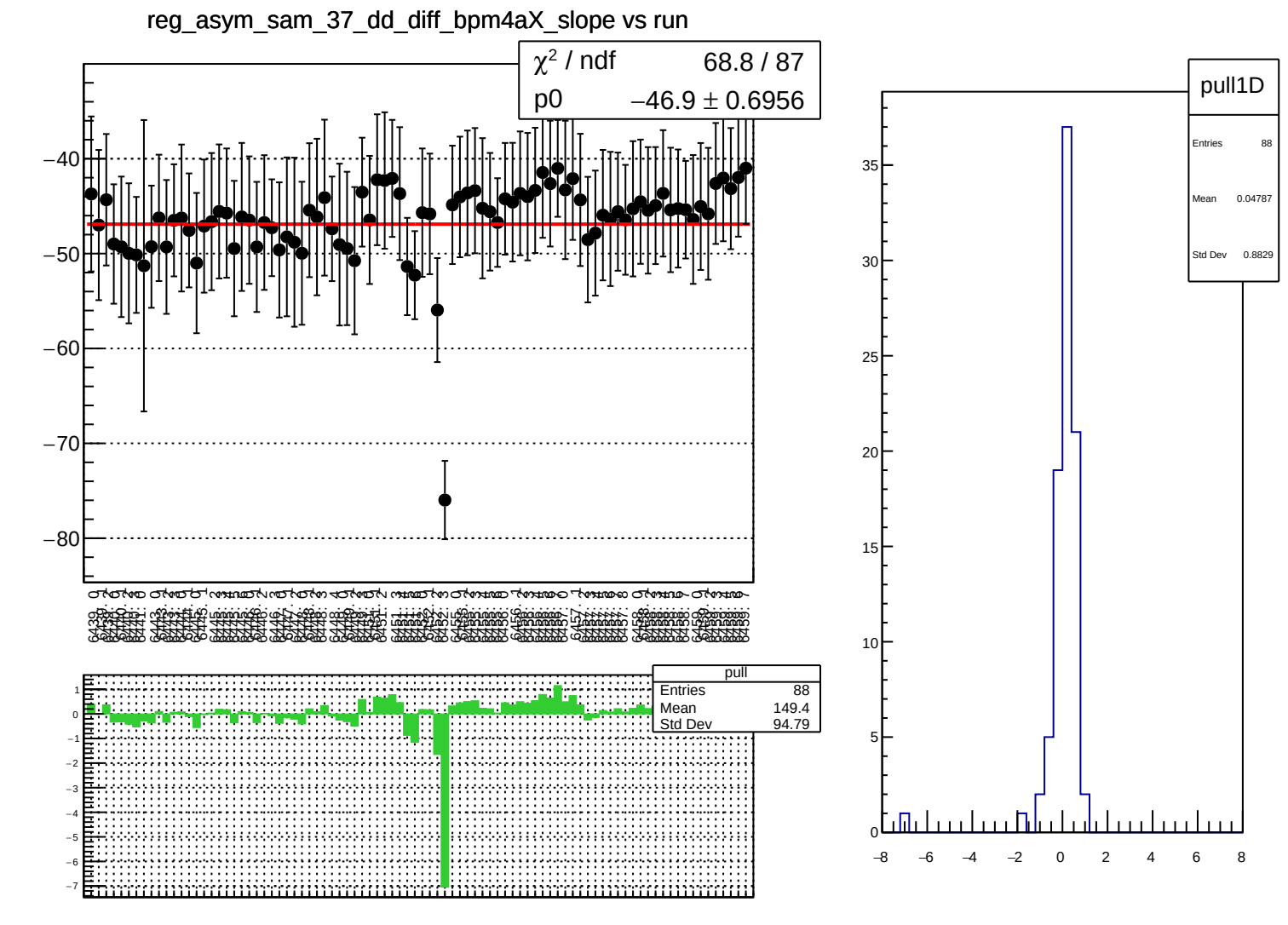

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.5 / 87
p0 −68.58 ± 1.34
pull
Entries 88
Mean 127.6
Std Dev 67.54

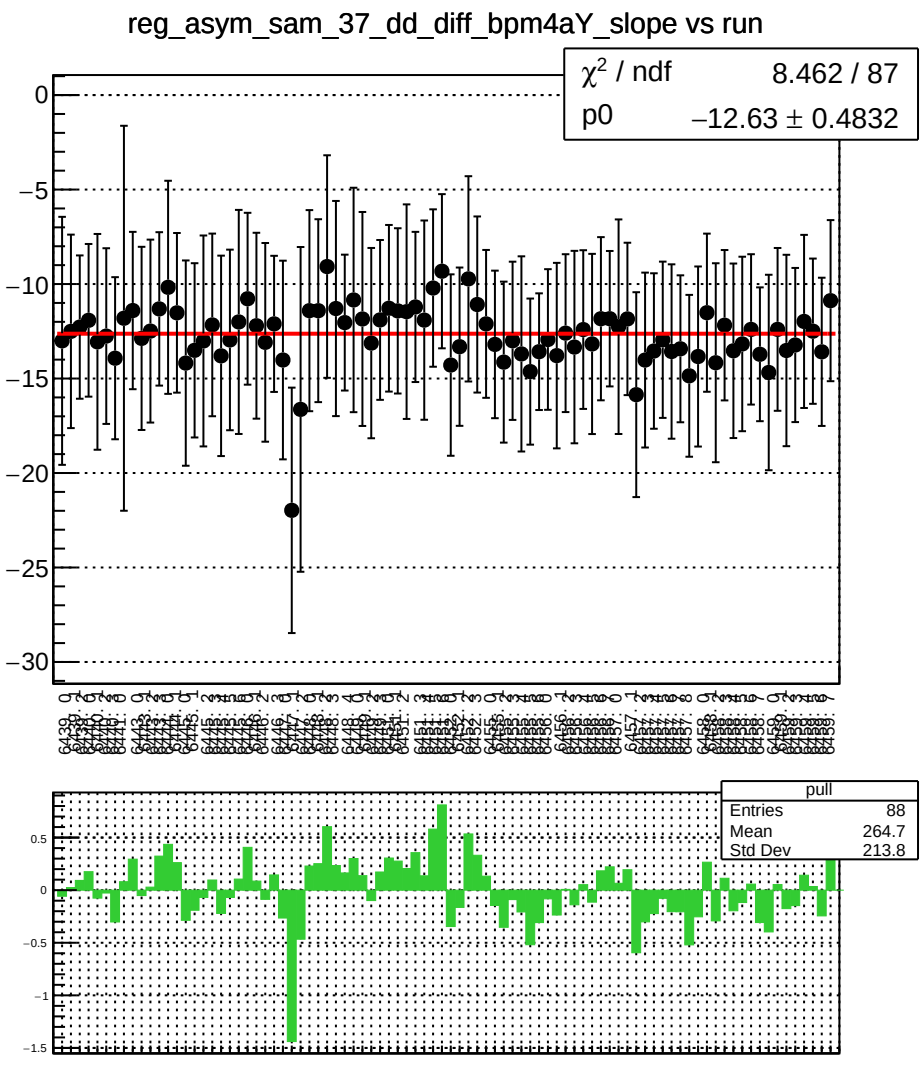

pull1D
Entries 88
Mean −0.05833
Std Dev 0.834

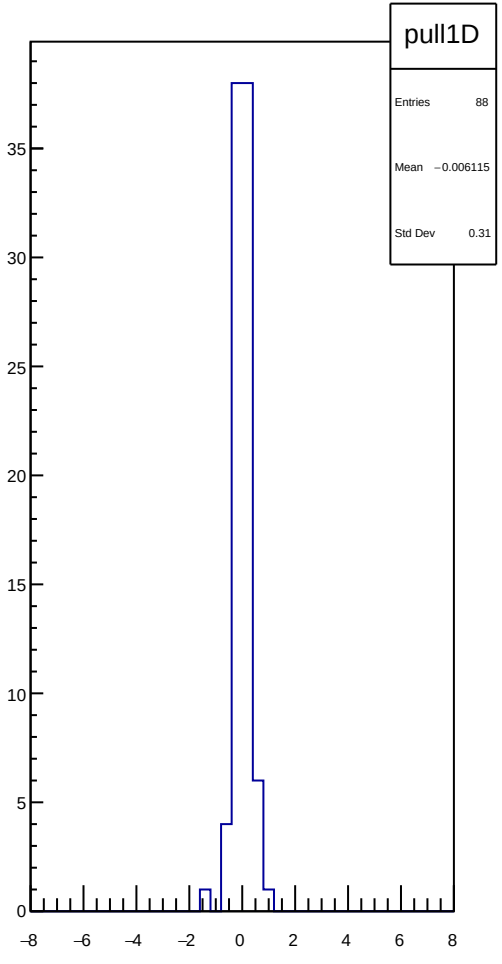

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 37 / 87
p0 7.355 ± 0.8647
pull
Entries 88
Mean −282.3
Std Dev 318.7

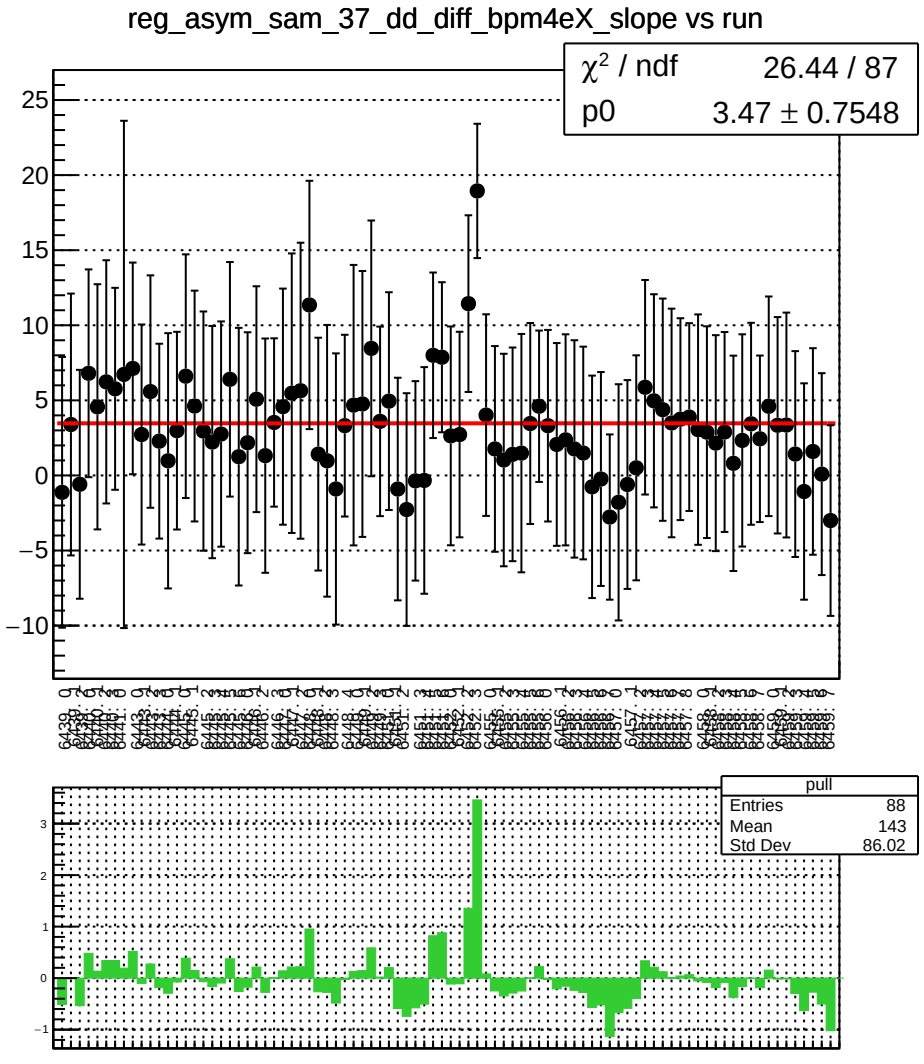

pull1D
Entries 88
Mean 0.02608
Std Dev 0.6479

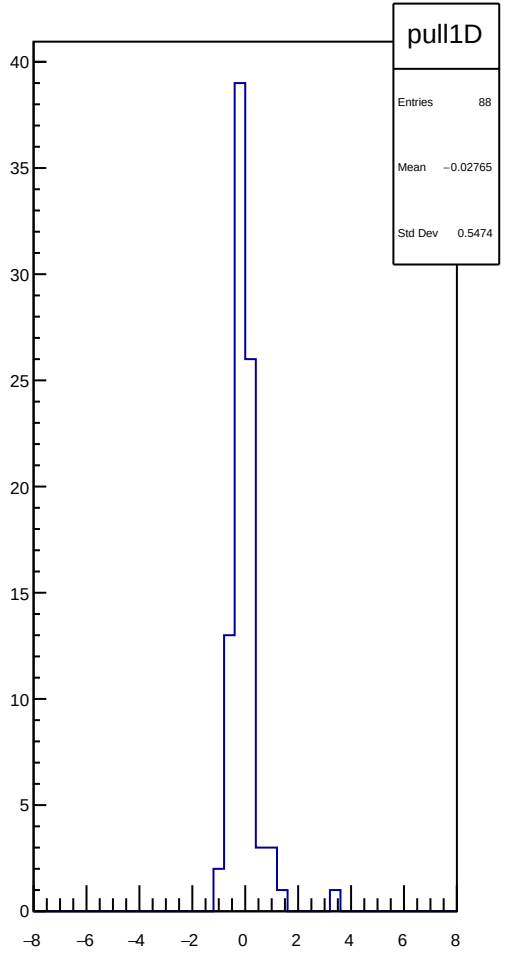

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 14.77 / 87
p0 0.5945 ± 0.03597
pull
Entries 88
Mean −1292
Std Dev 1333
pull1D
Entries 88
Mean −0.004968
Std Dev 0.4097

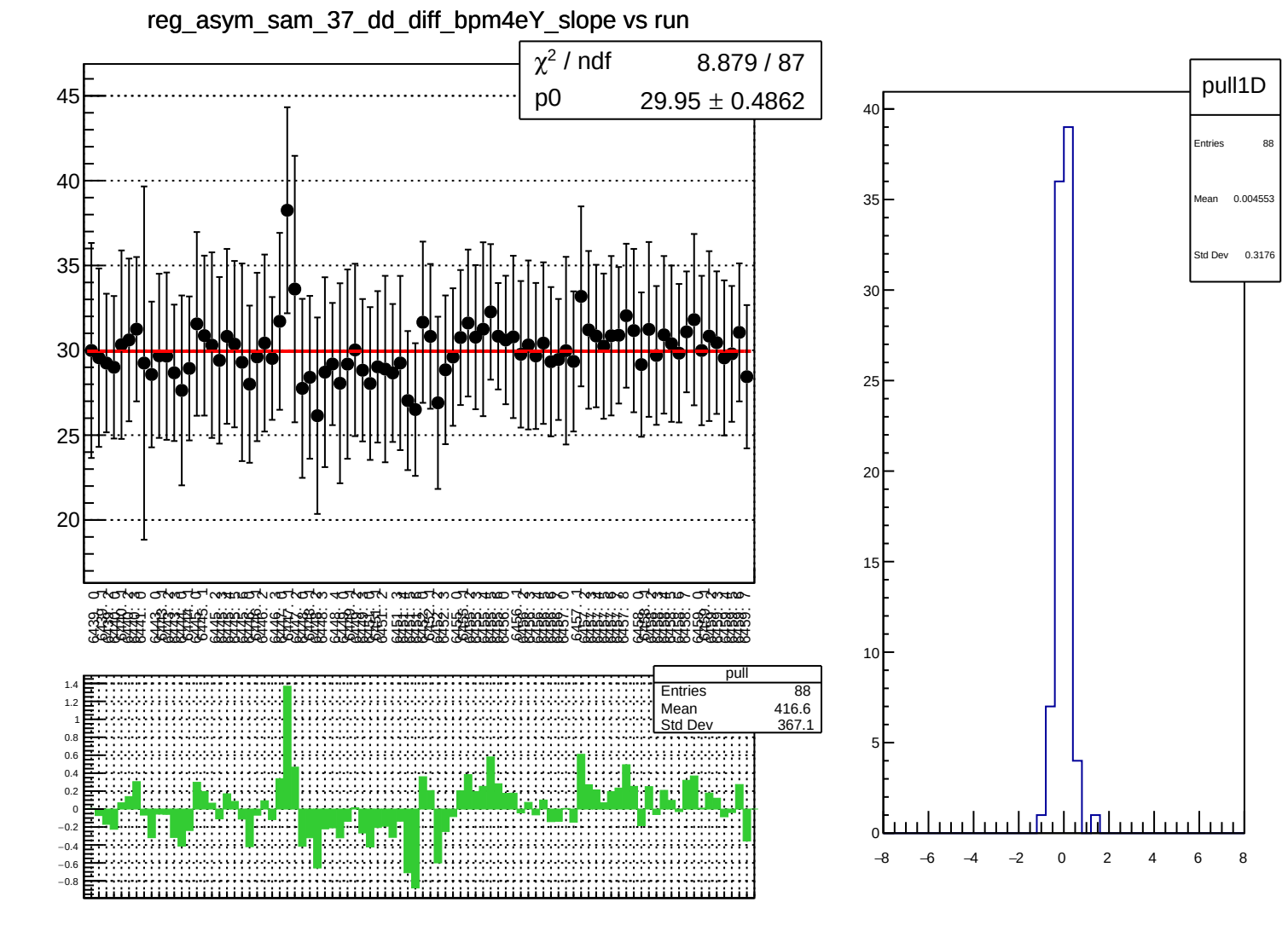

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 68.8 / 87
p0 −46.9 ± 0.6956
−40
−50
−60
−70
−80
pull
Entries 88
Mean 149.4
Std Dev 94.79
pull1D
Entries 88
Mean 0.04787
Std Dev 0.8829
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

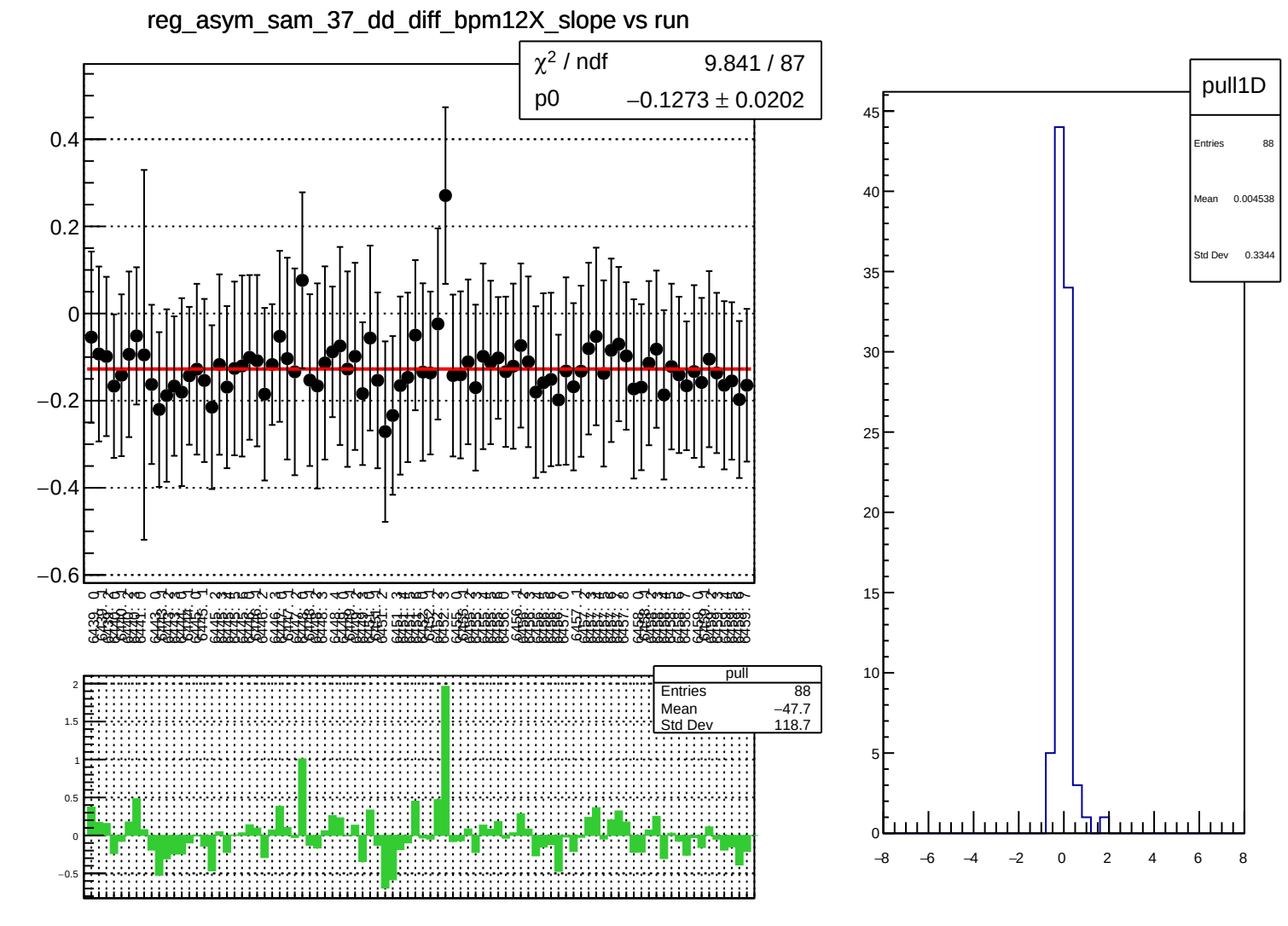

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.462 / 87
p0 −12.63 ± 0.4832
pull
Entries 88
Mean 264.7
Std Dev 213.8

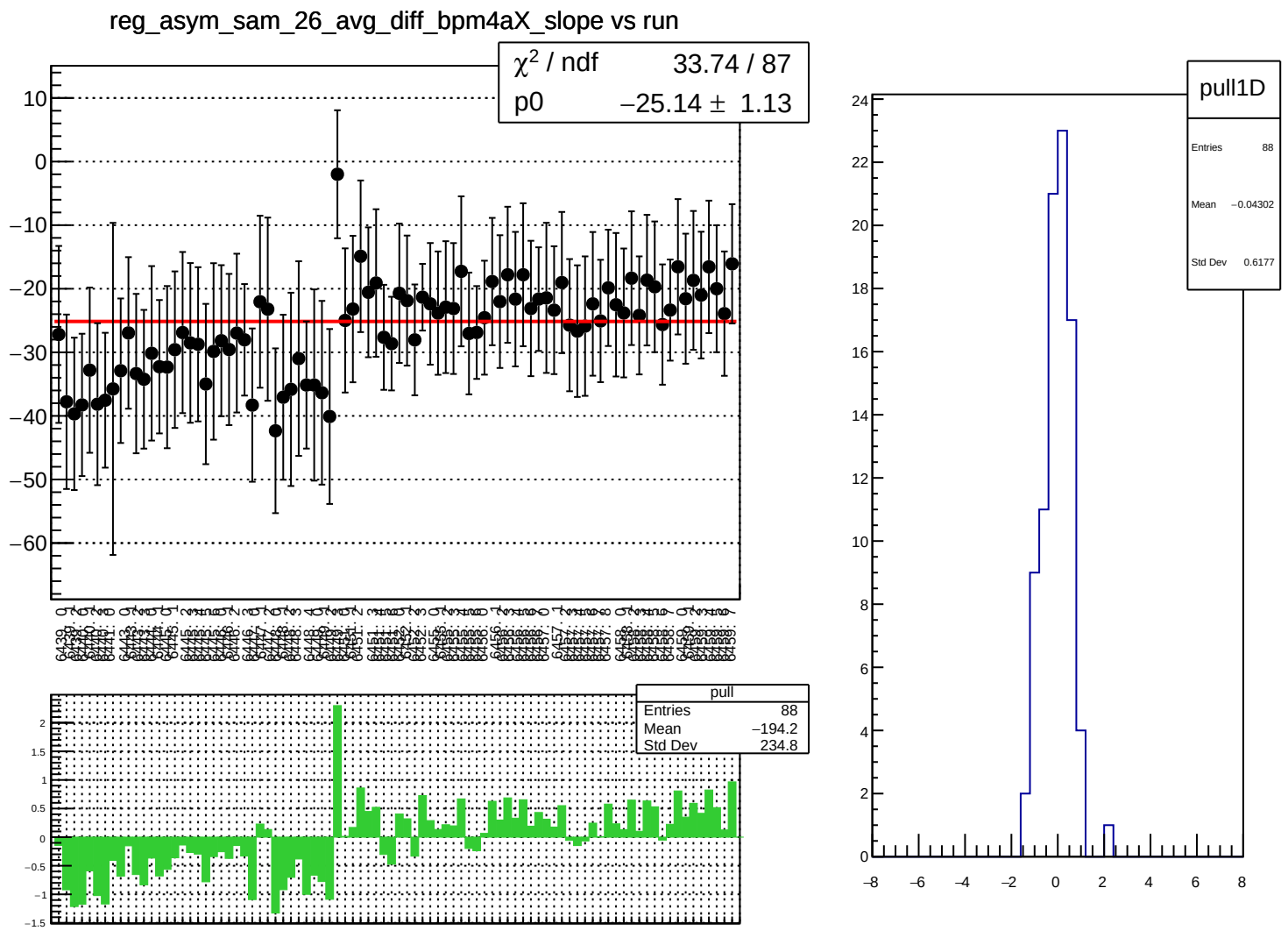

pull1D
Entries 88
Mean −0.006115
Std Dev 0.31

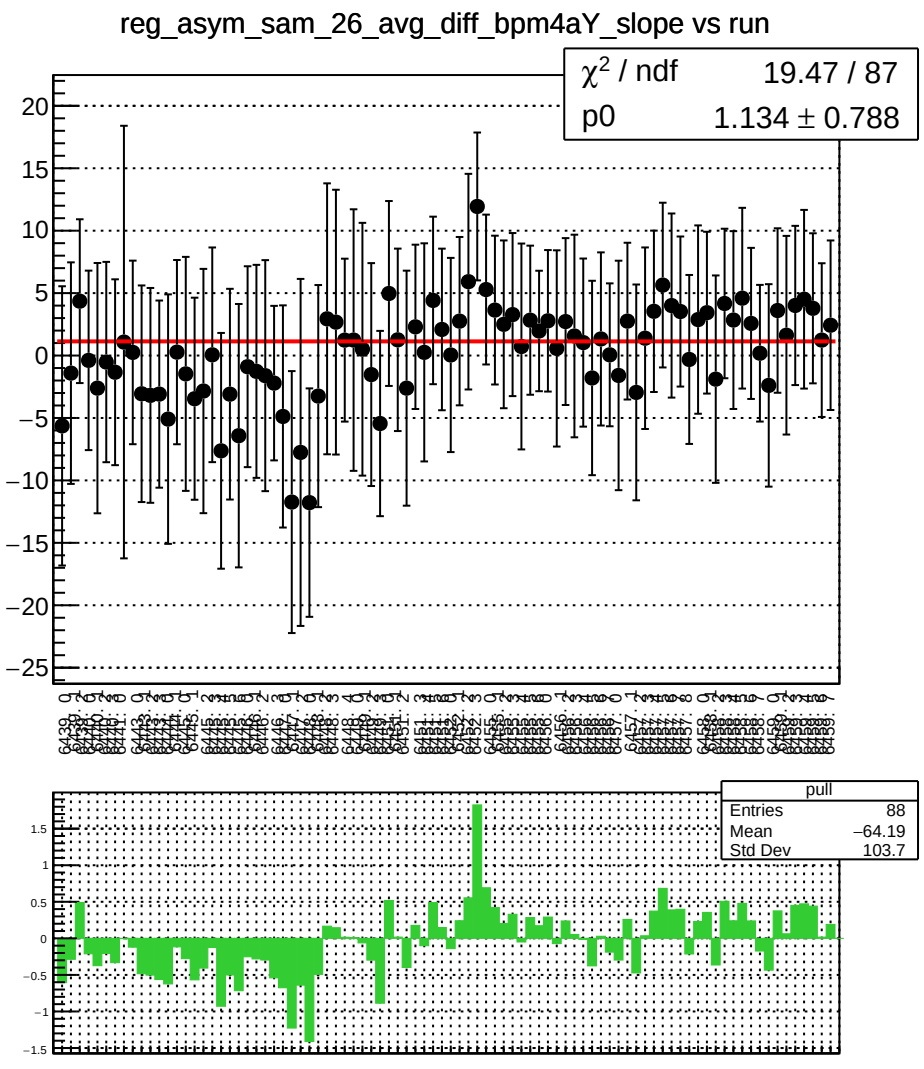

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.44 / 87
p0 3.47 ± 0.7548
pull
Entries 88
Mean 143
Std Dev 86.02

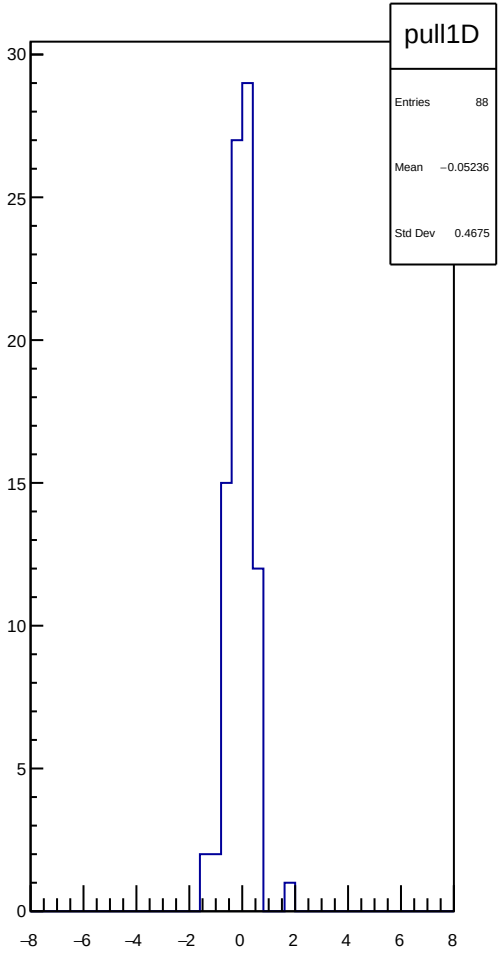

pull1D
Entries 88
Mean −0.02765
Std Dev 0.5474

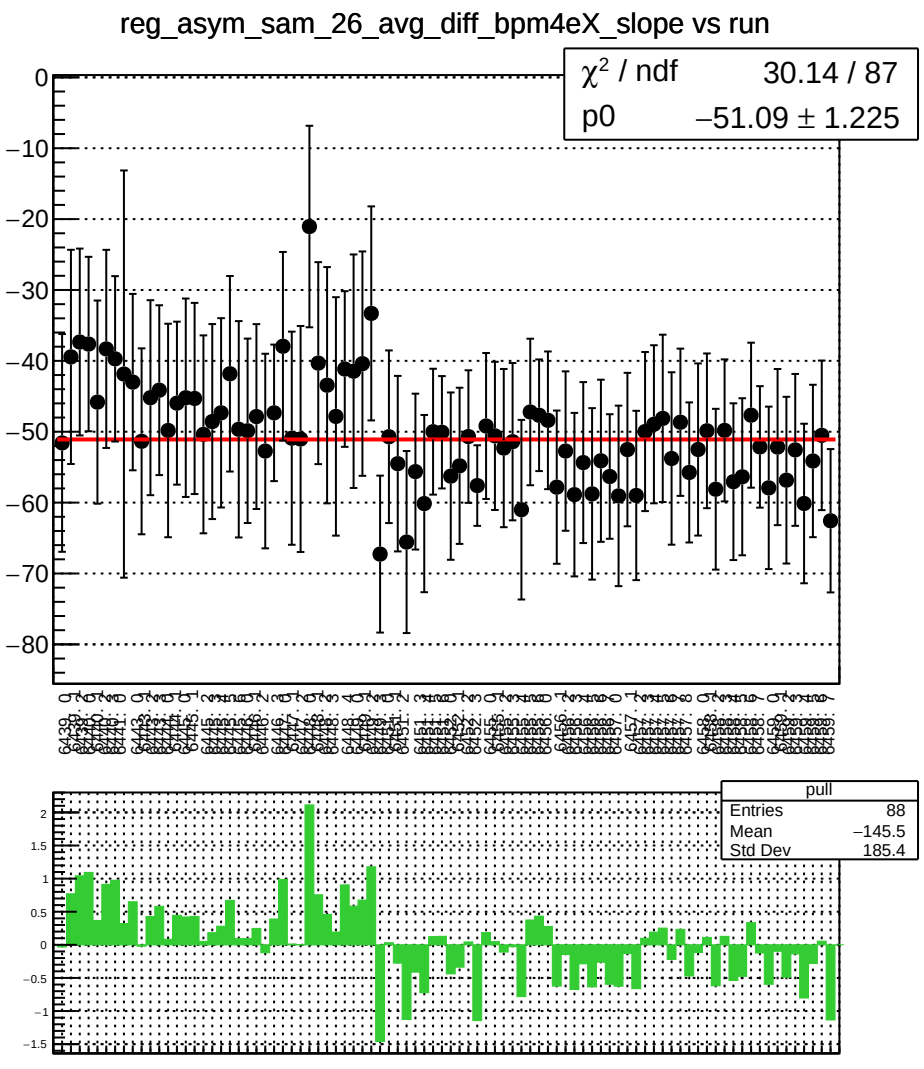

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.879 / 87
p0 29.95 ± 0.4862
pull
Entries 88
Mean 416.6
Std Dev 367.1
pull1D
Entries 88
Mean 0.004553
Std Dev 0.3176

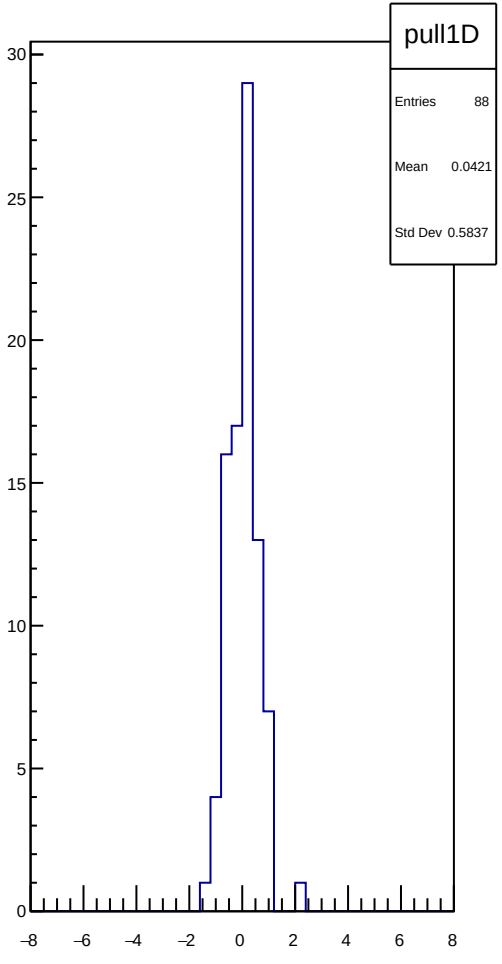

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 9.841 / 87
p0 −0.1273 ± 0.0202
pull
Entries 88
Mean −47.7
Std Dev 118.7
pull1D
Entries 88
Mean 0.004538
Std Dev 0.3344

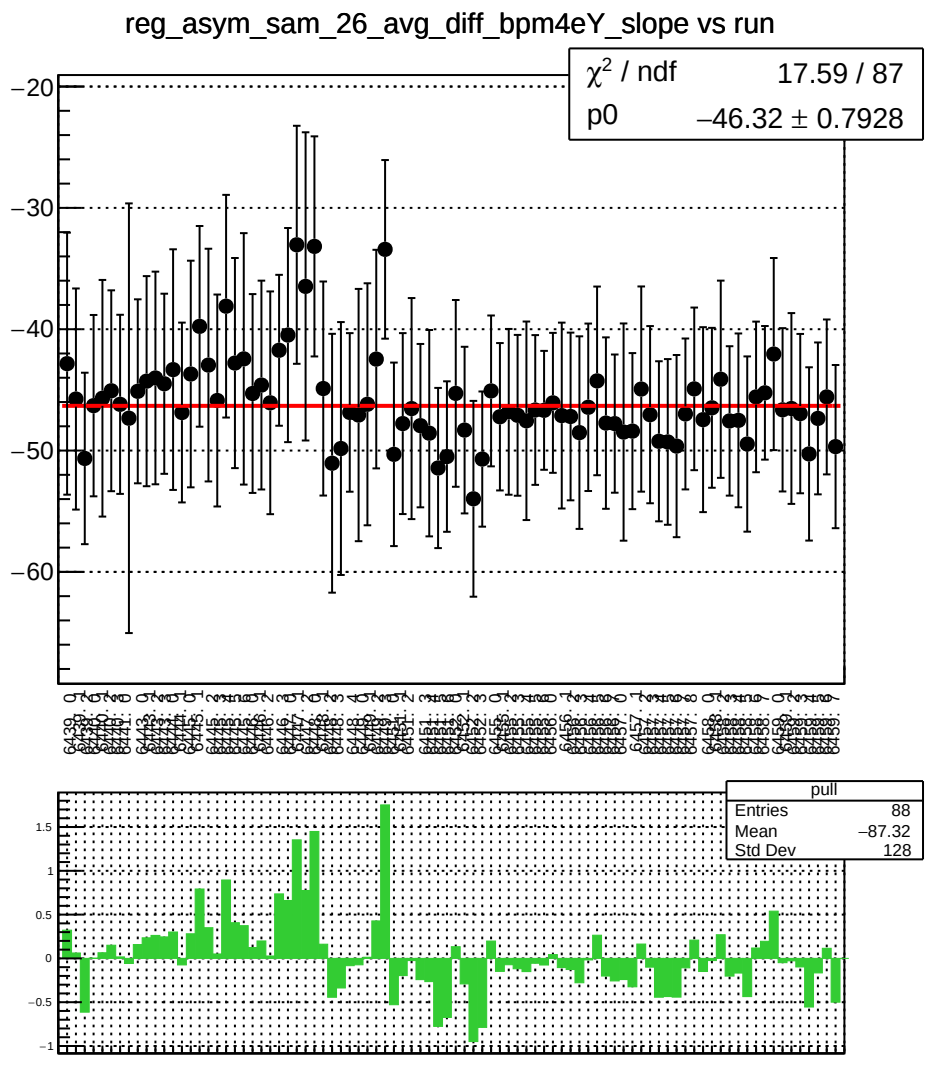

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 33.74 / 87
p0 −25.14 ± 1.13
pull
Entries 88
Mean −194.2
Std Dev 234.8
pull1D
Entries 88
Mean −0.04302
Std Dev 0.6177

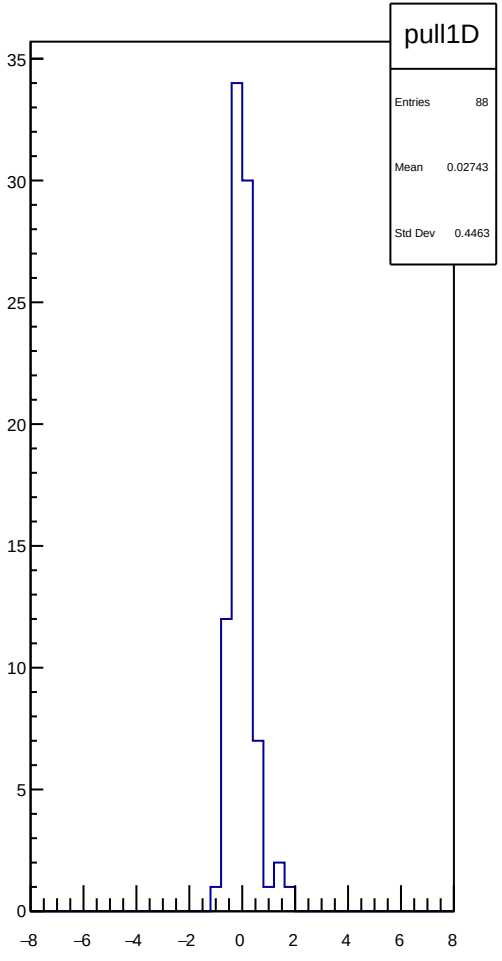

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.47 / 87
p0 1.134 ± 0.788
pull
Entries 88
Mean −64.19
Std Dev 103.7

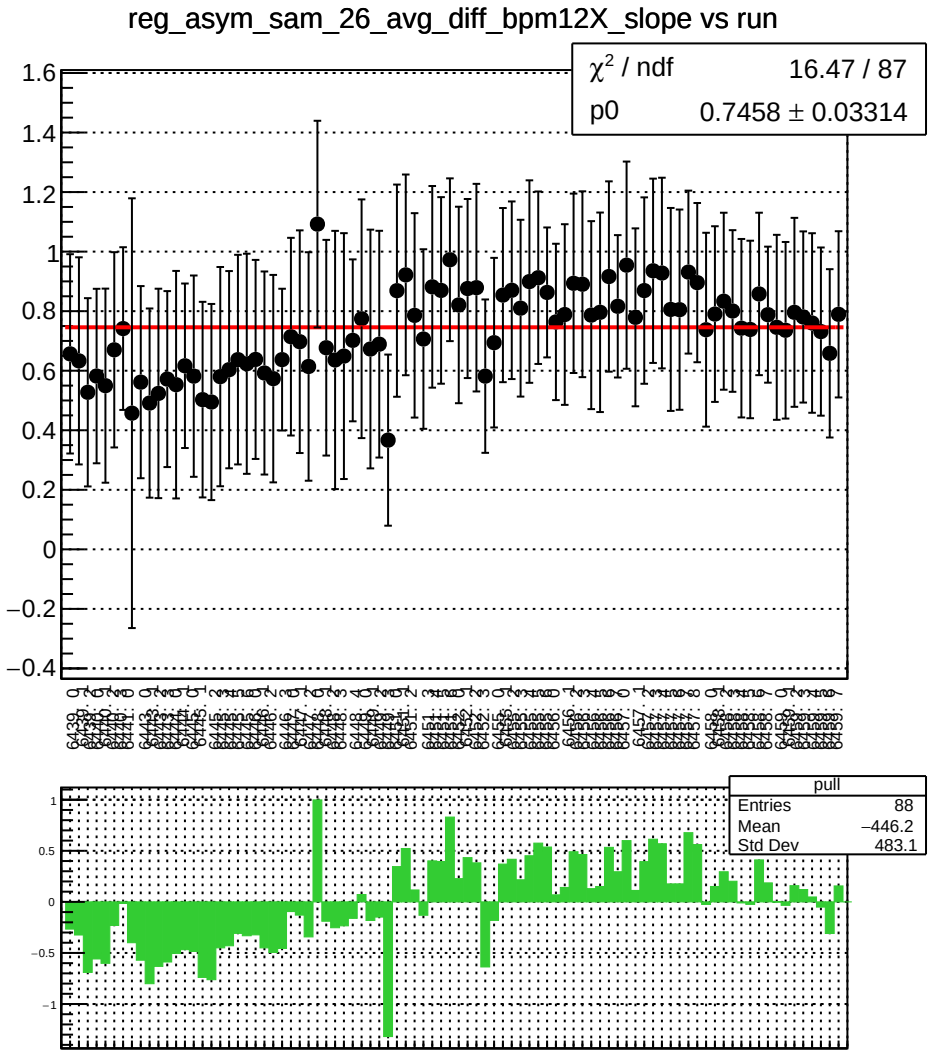

pull1D
Entries 88
Mean −0.05236
Std Dev 0.4675

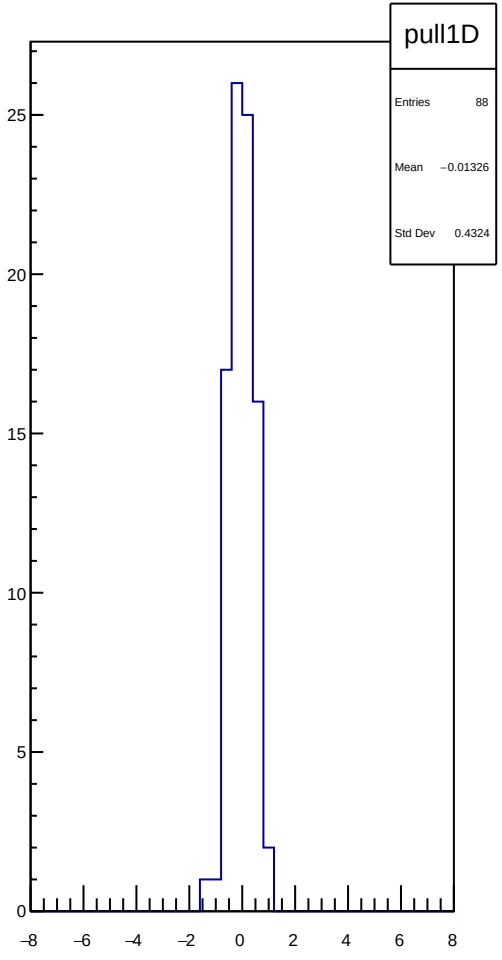

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.14 / 87
p0 −51.09 ± 1.225
pull
Entries 88
Mean −145.5
Std Dev 185.4

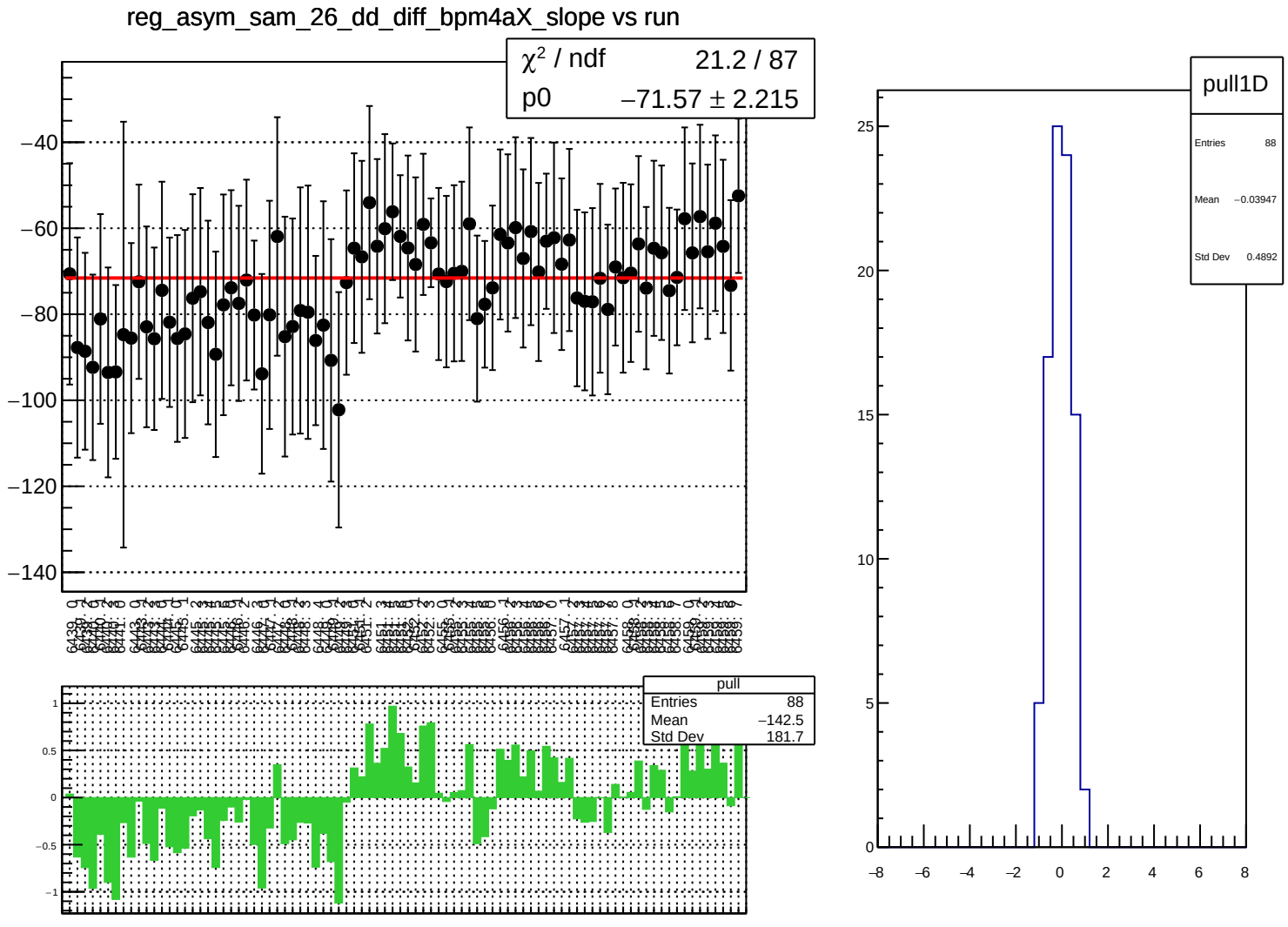

pull1D
Entries 88
Mean 0.0421
Std Dev 0.5837

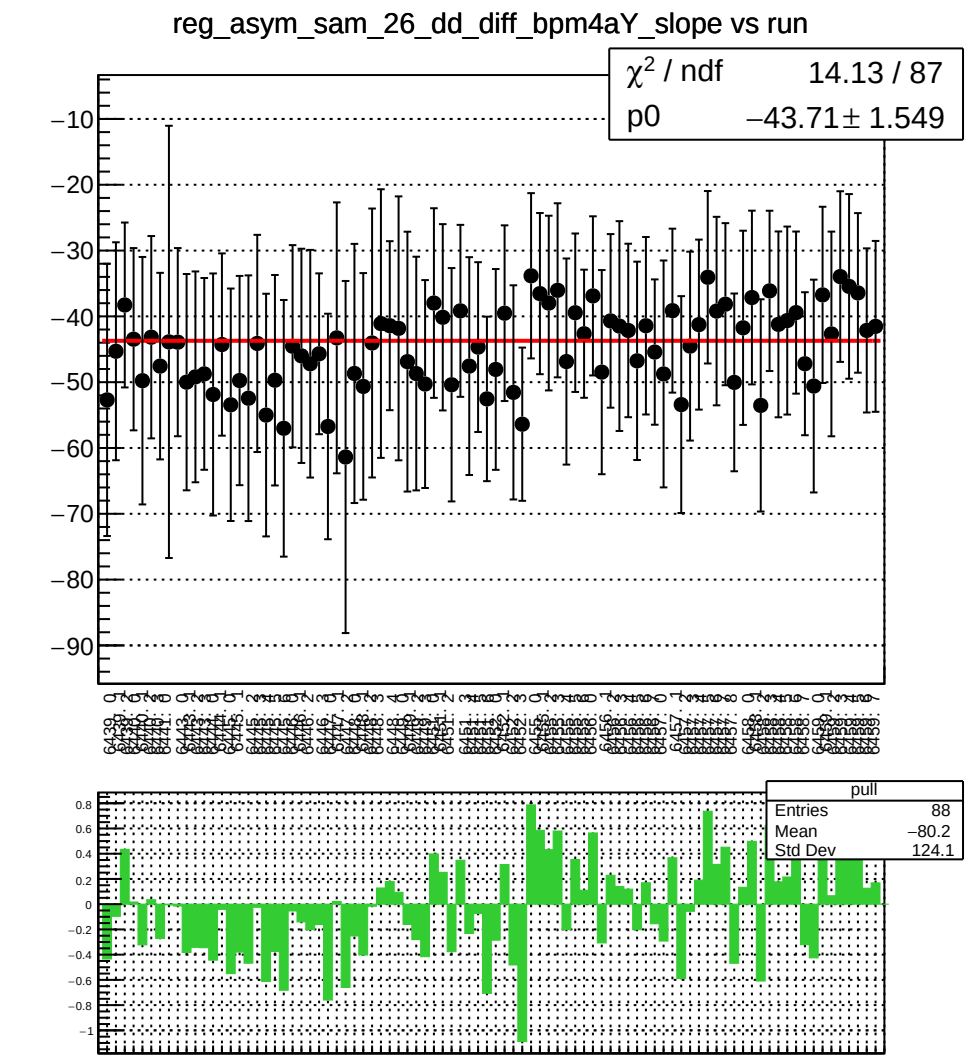

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.59 / 87
p0 −46.32 ± 0.7928
pull
Entries 88
Mean −87.32
Std Dev 128

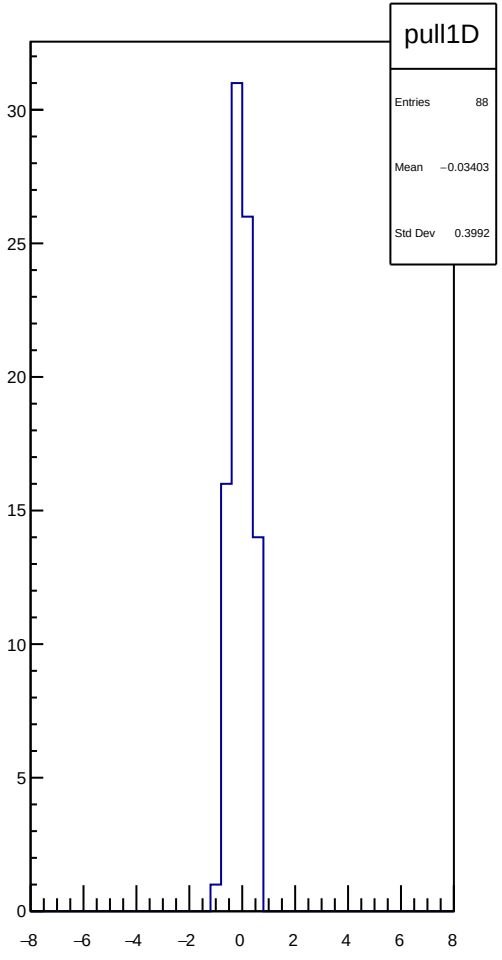

pull1D
Entries 88
Mean 0.02743
Std Dev 0.4463

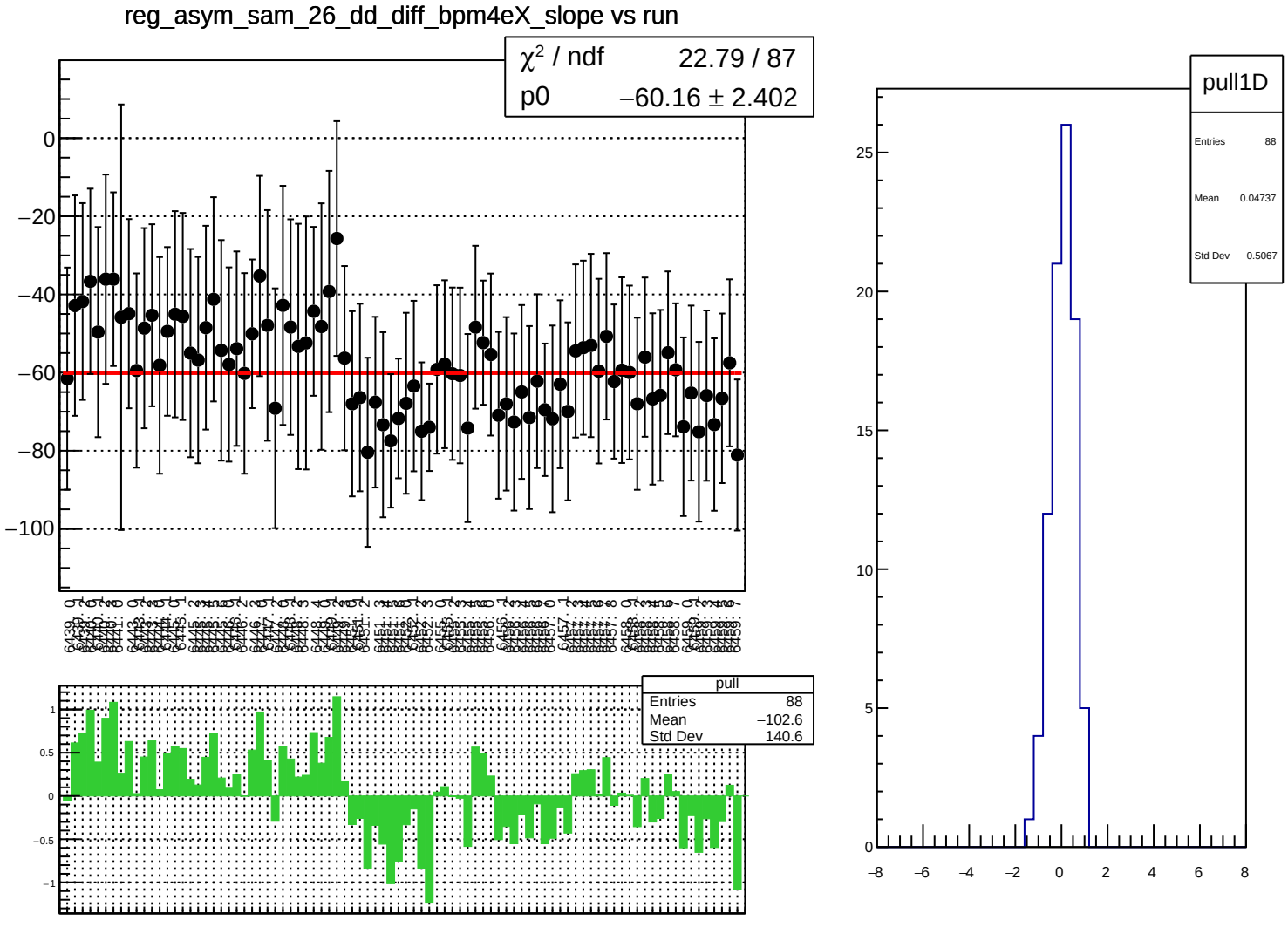

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 16.47 / 87
p0 0.7458 ± 0.03314
pull
Entries 88
Mean −446.2
Std Dev 483.1

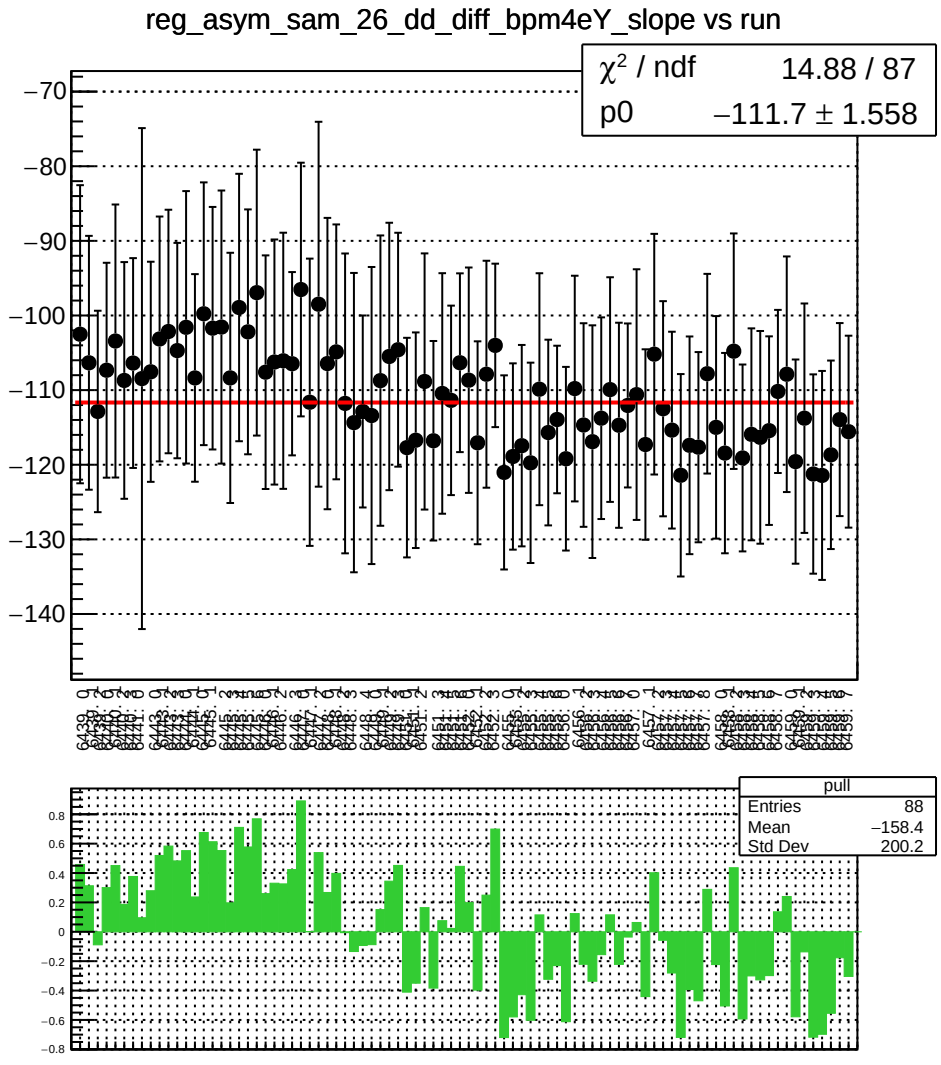

pull1D
Entries 88
Mean −0.01326
Std Dev 0.4324

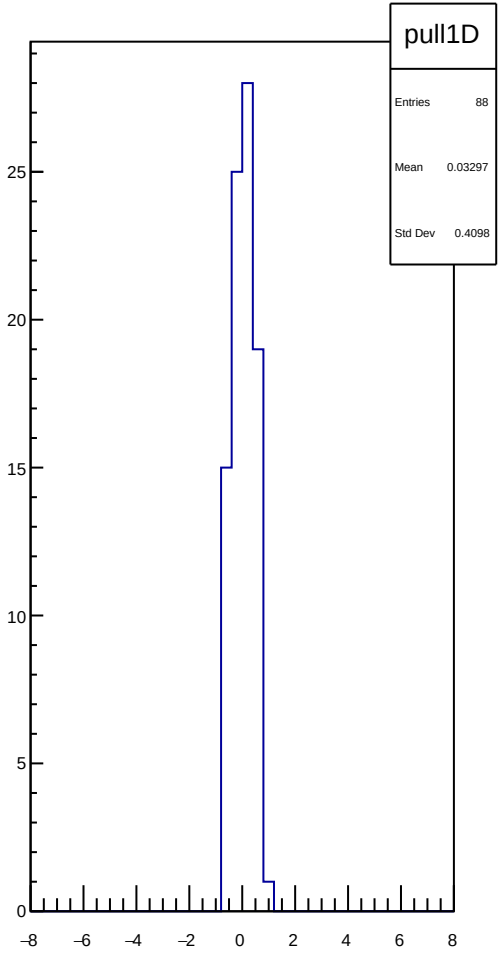

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 21.2 / 87
p0 −71.57 ± 2.215
−40
−60
−80
−100
−120
−140
pull
Entries 88
Mean −142.5
Std Dev 181.7
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.03947
Std Dev 0.4892
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

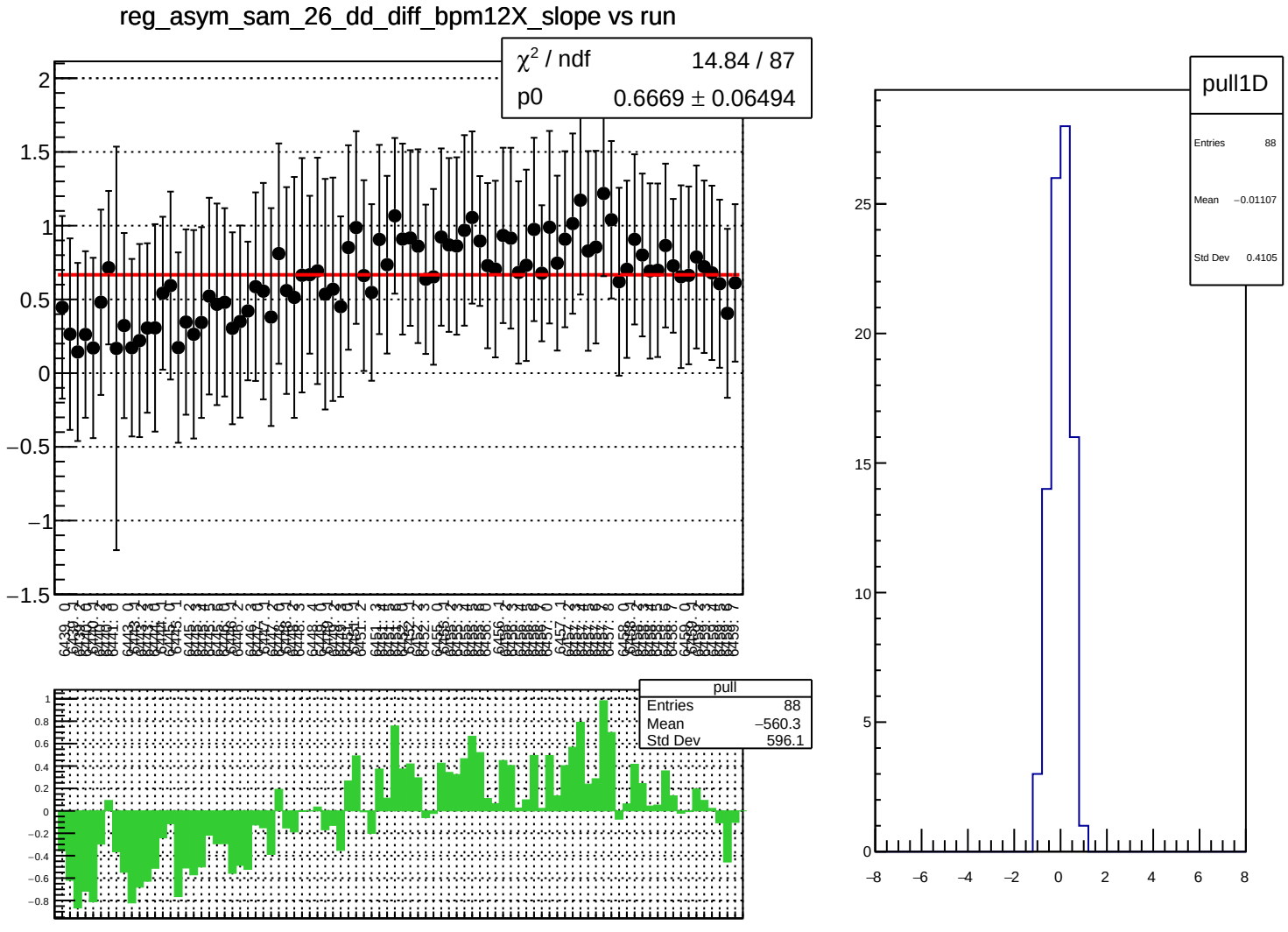

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.13 / 87
p0 −43.71 ± 1.549
pull
Entries 88
Mean −80.2
Std Dev 124.1

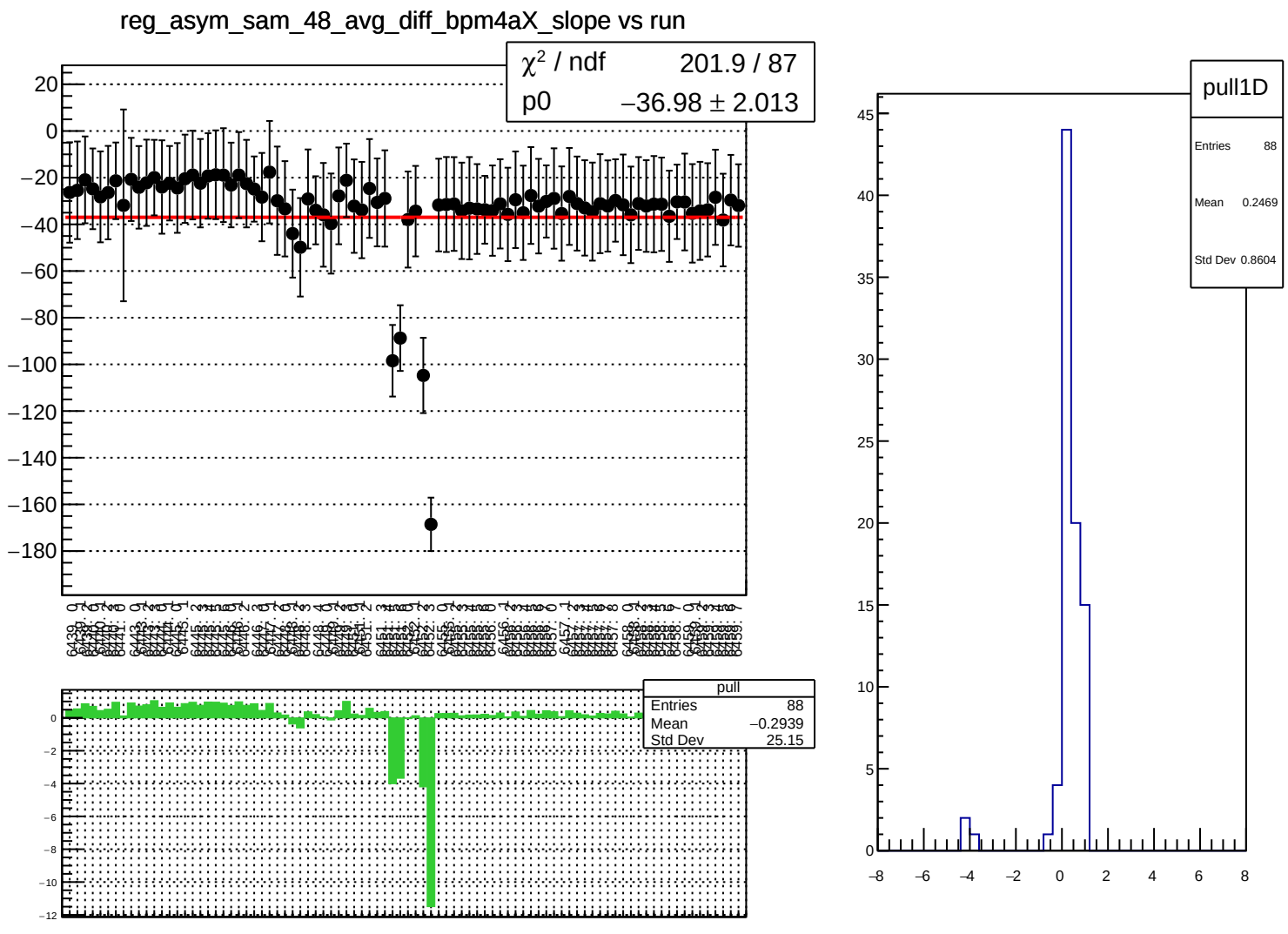

pull1D
Entries 88
Mean −0.03403
Std Dev 0.3992

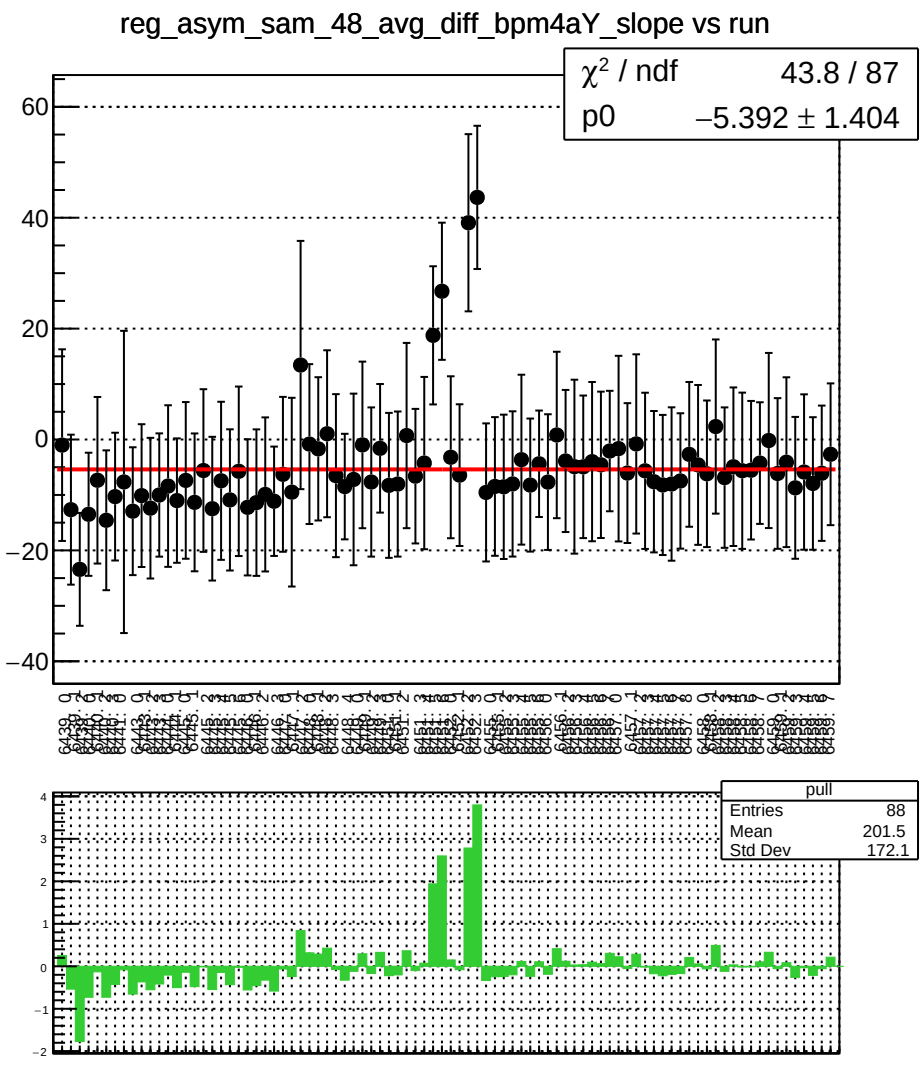

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.79 / 87
p0 −60.16 ± 2.402
0
−20
−40
−60
−80
−100
pull
Entries 88
Mean −102.6
Std Dev 140.6
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.04737
Std Dev 0.5067
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

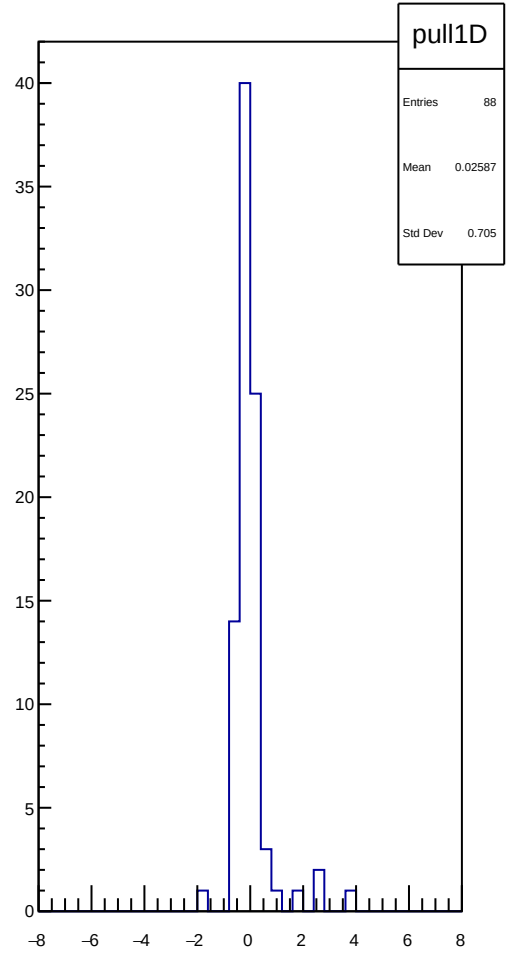

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.88 / 87
p0 −111.7 ± 1.558
pull
Entries 88
Mean −158.4
Std Dev 200.2

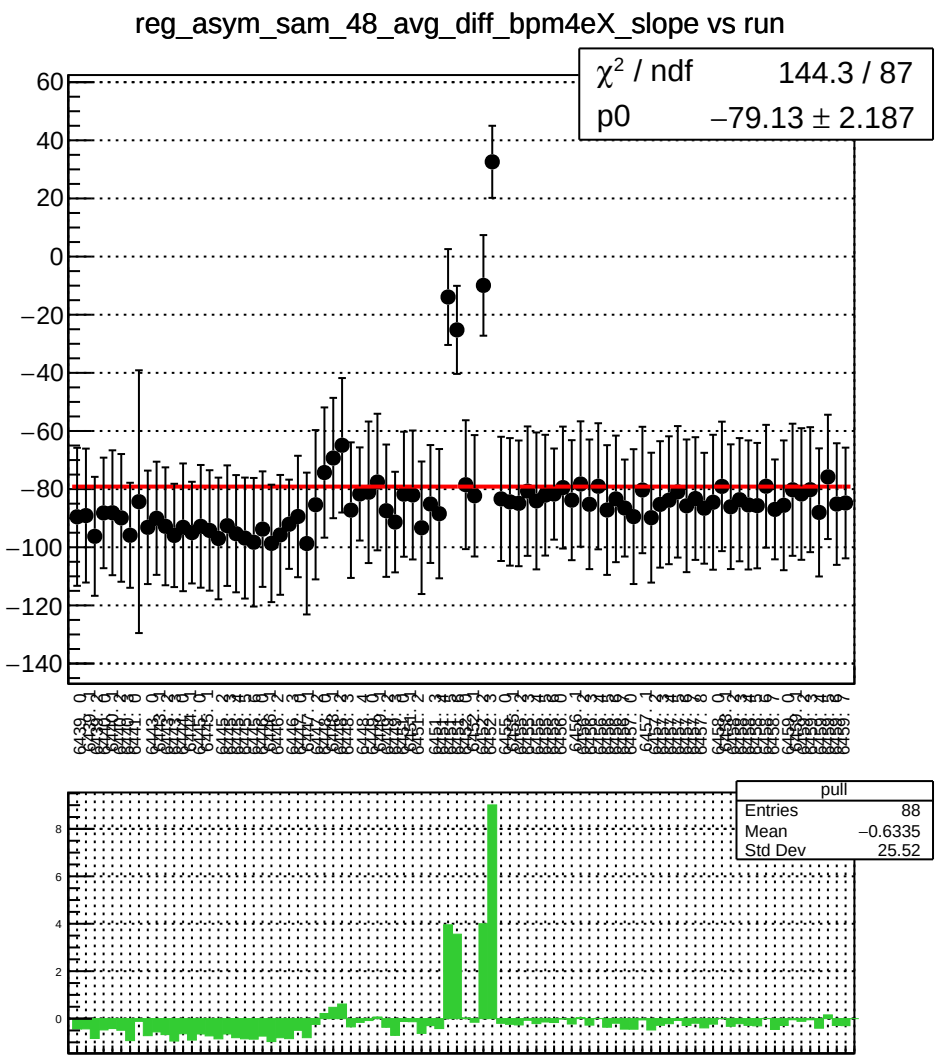

pull1D
Entries 88
Mean 0.03297
Std Dev 0.4098

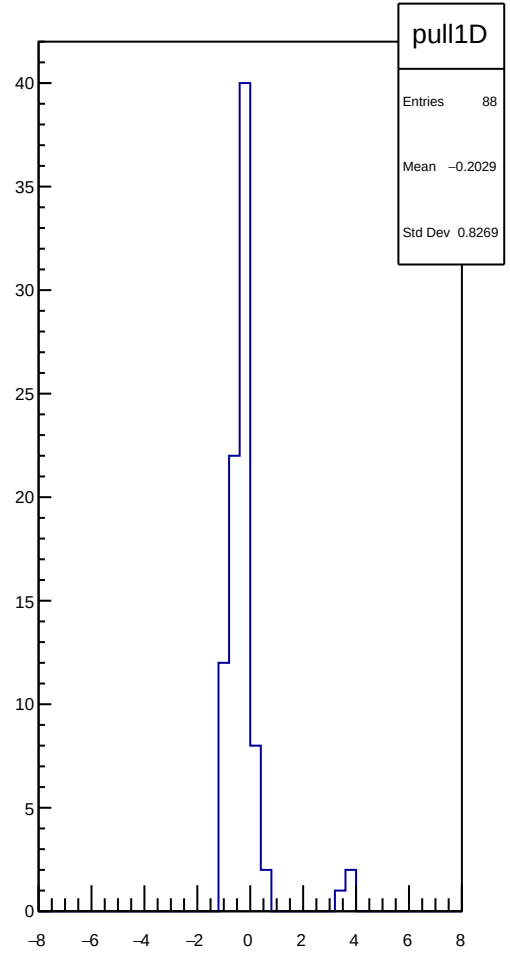

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 14.84 / 87
p0 0.6669 ± 0.06494
pull
Entries 88
Mean −560.3
Std Dev 596.1
pull1D
Entries 88
Mean −0.01107
Std Dev 0.4105

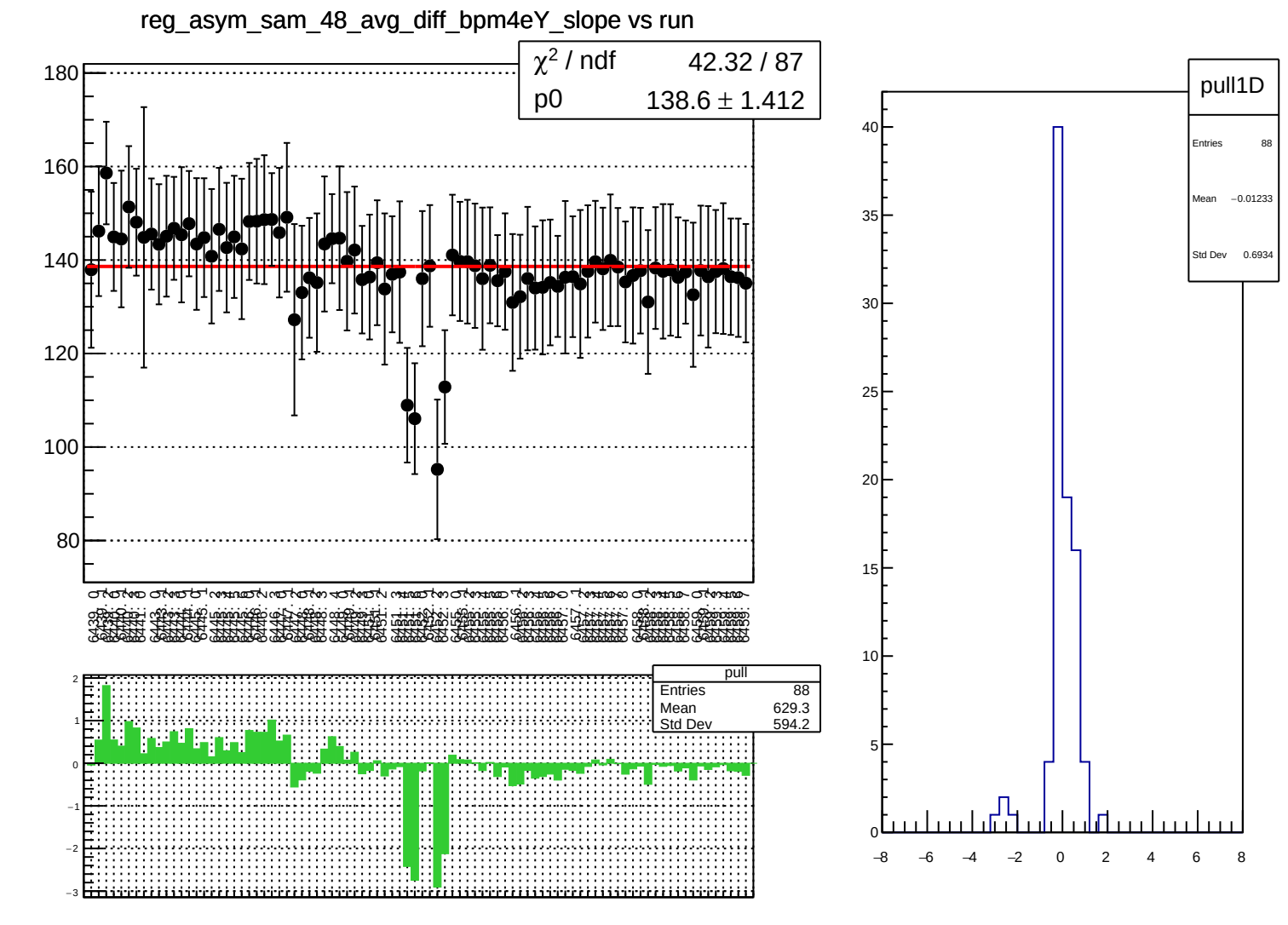

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 201.9 / 87
p0 −36.98 ± 2.013
pull
Entries 88
Mean −0.2939
Std Dev 25.15
pull1D
Entries 88
Mean 0.2469
Std Dev 0.8604

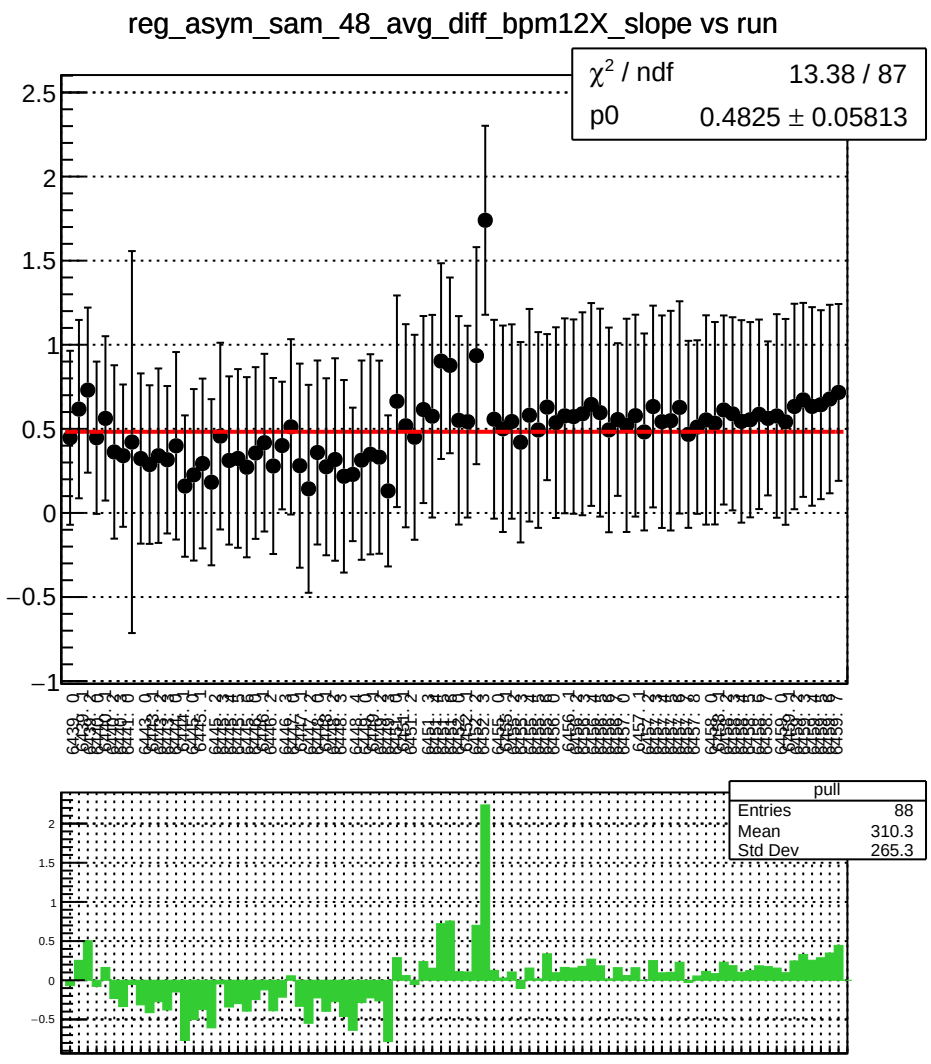

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.8 / 87
p0 −5.392 ± 1.404
pull
Entries 88
Mean 201.5
Std Dev 172.1

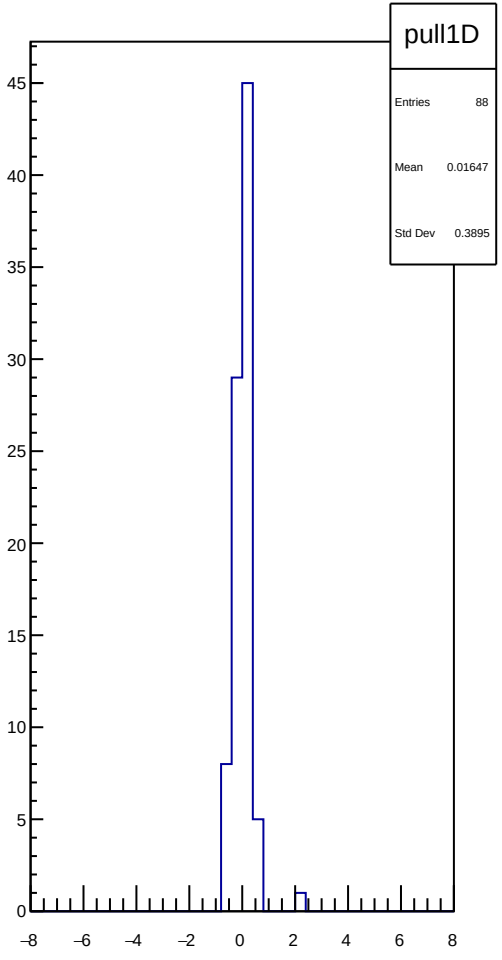

pull1D
Entries 88
Mean 0.02587
Std Dev 0.705

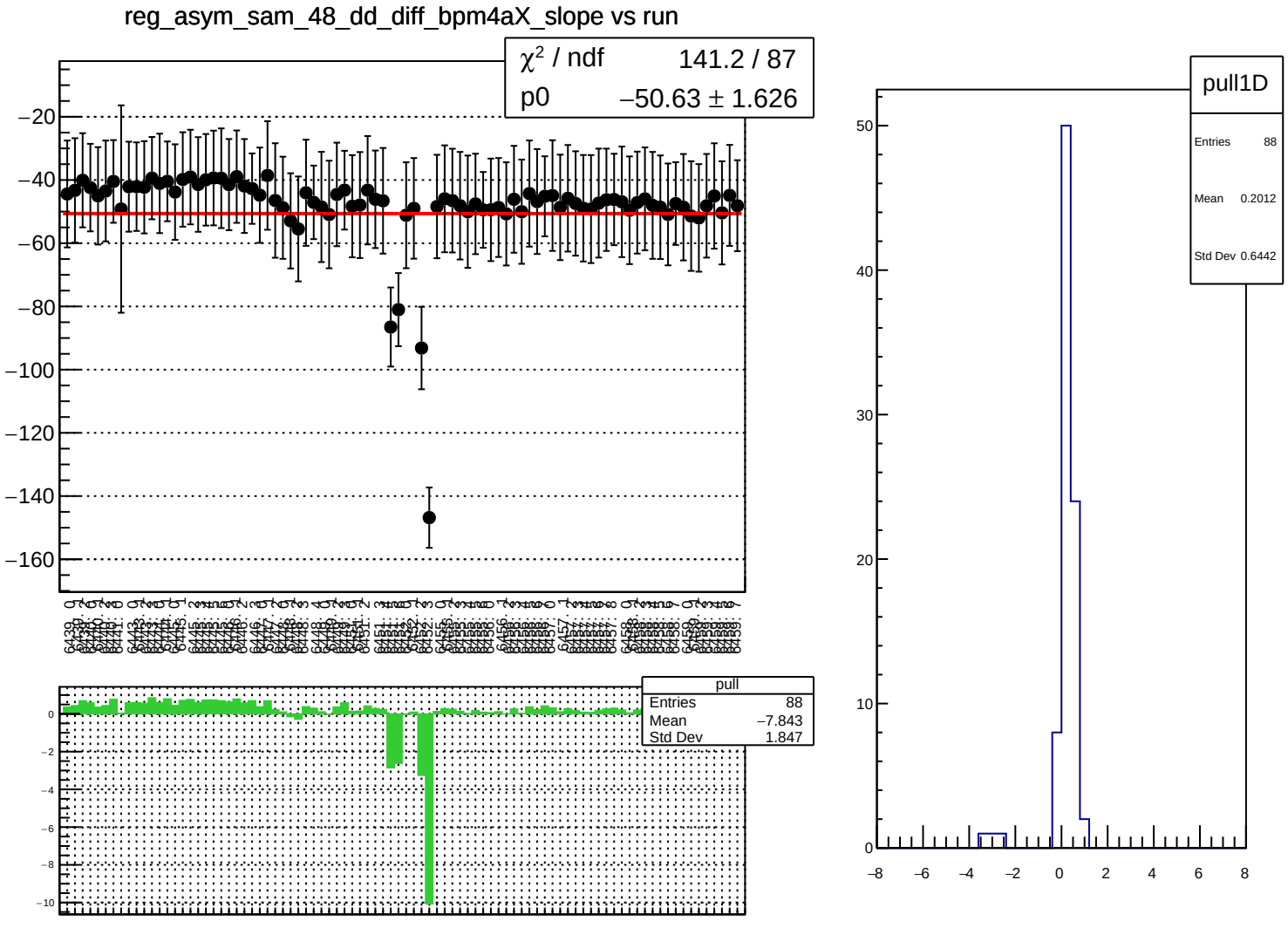

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 144.3 / 87
p0 −79.13 ± 2.187
pull
Entries 88
Mean −0.6335
Std Dev 25.52

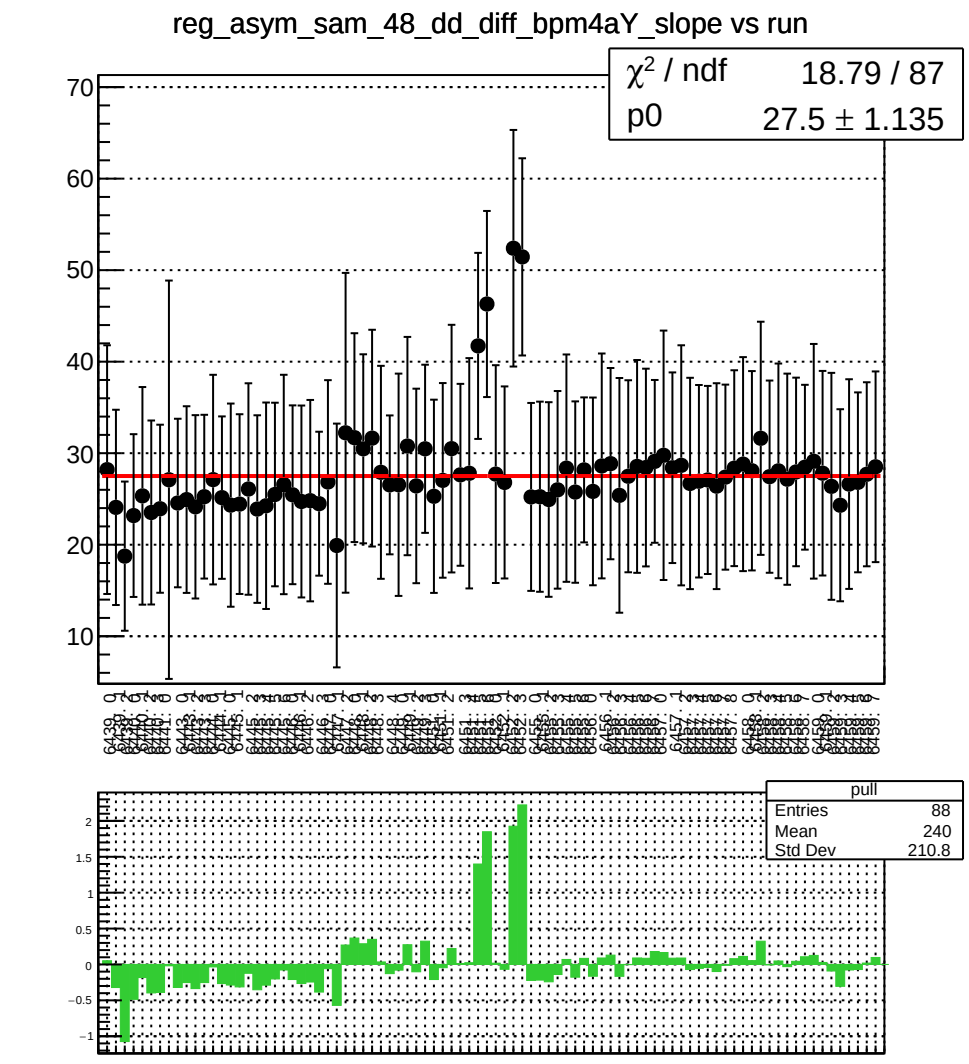

pull1D
Entries 88
Mean −0.2029
Std Dev 0.8269

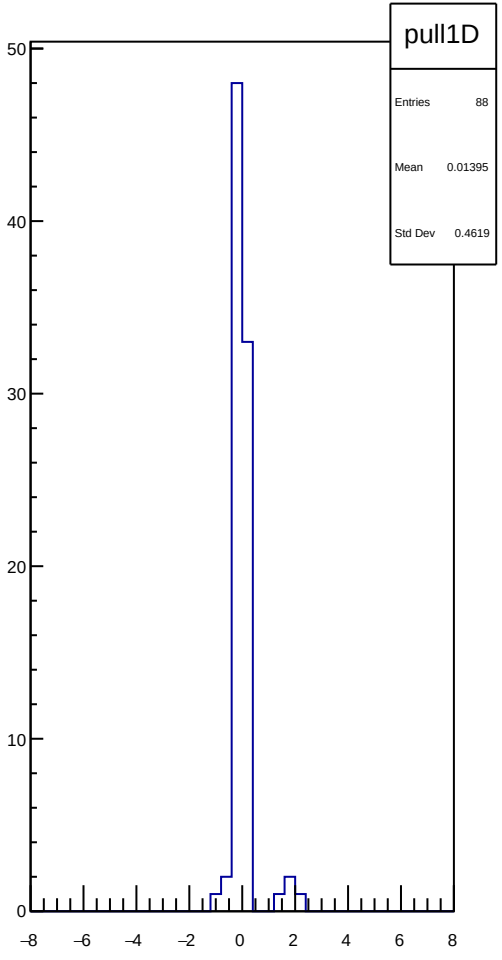

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.32 / 87
p0 138.6 ± 1.412
pull
Entries 88
Mean 629.3
Std Dev 594.2
pull1D
Entries 88
Mean −0.01233
Std Dev 0.6934

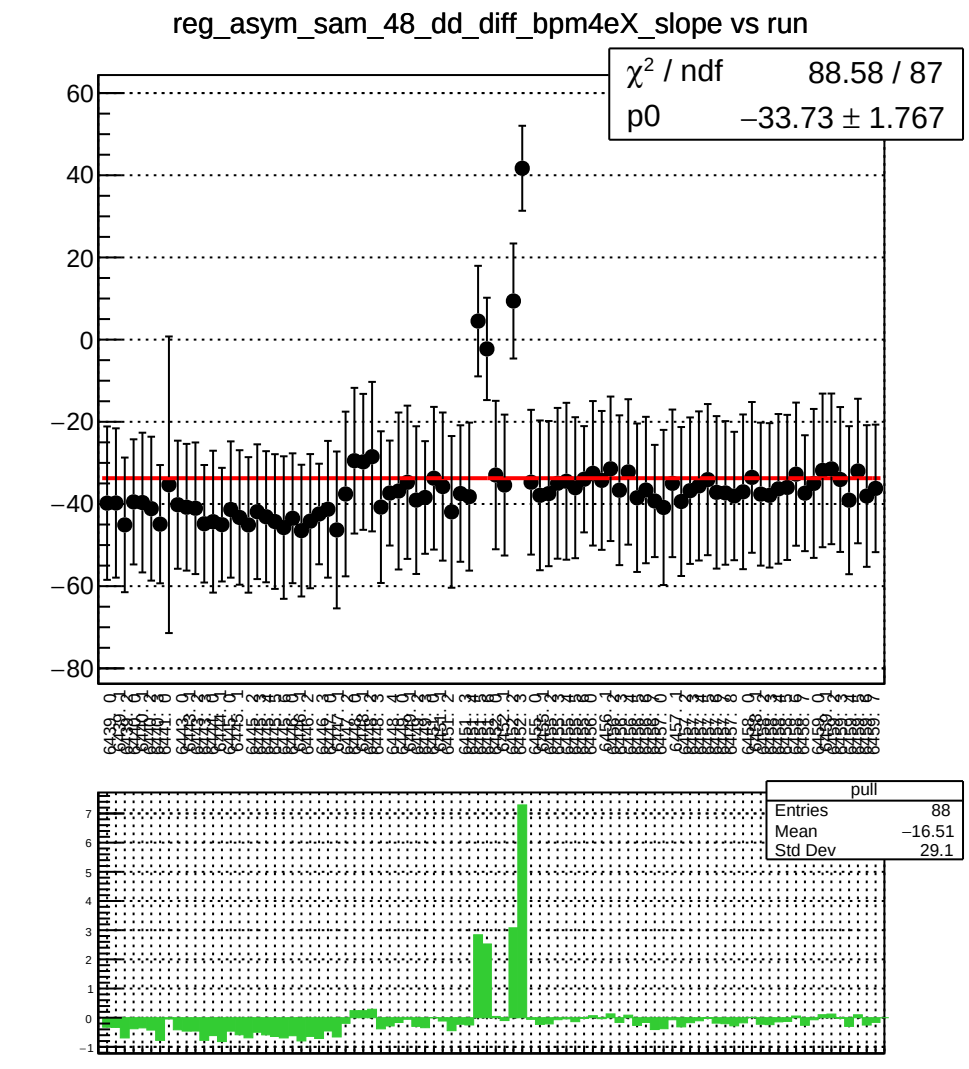

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 13.38 / 87
p0 0.4825 ± 0.05813
pull
Entries 88
Mean 310.3
Std Dev 265.3

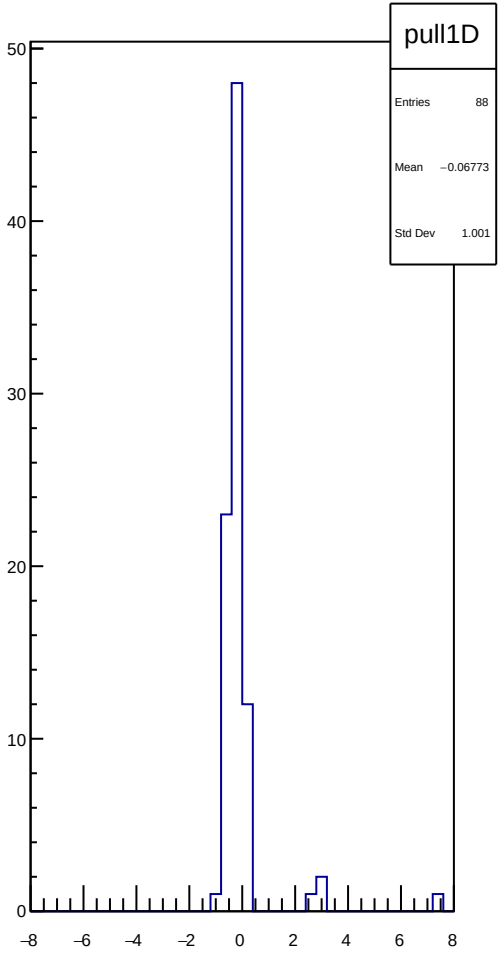

pull1D
Entries 88
Mean 0.01647
Std Dev 0.3895

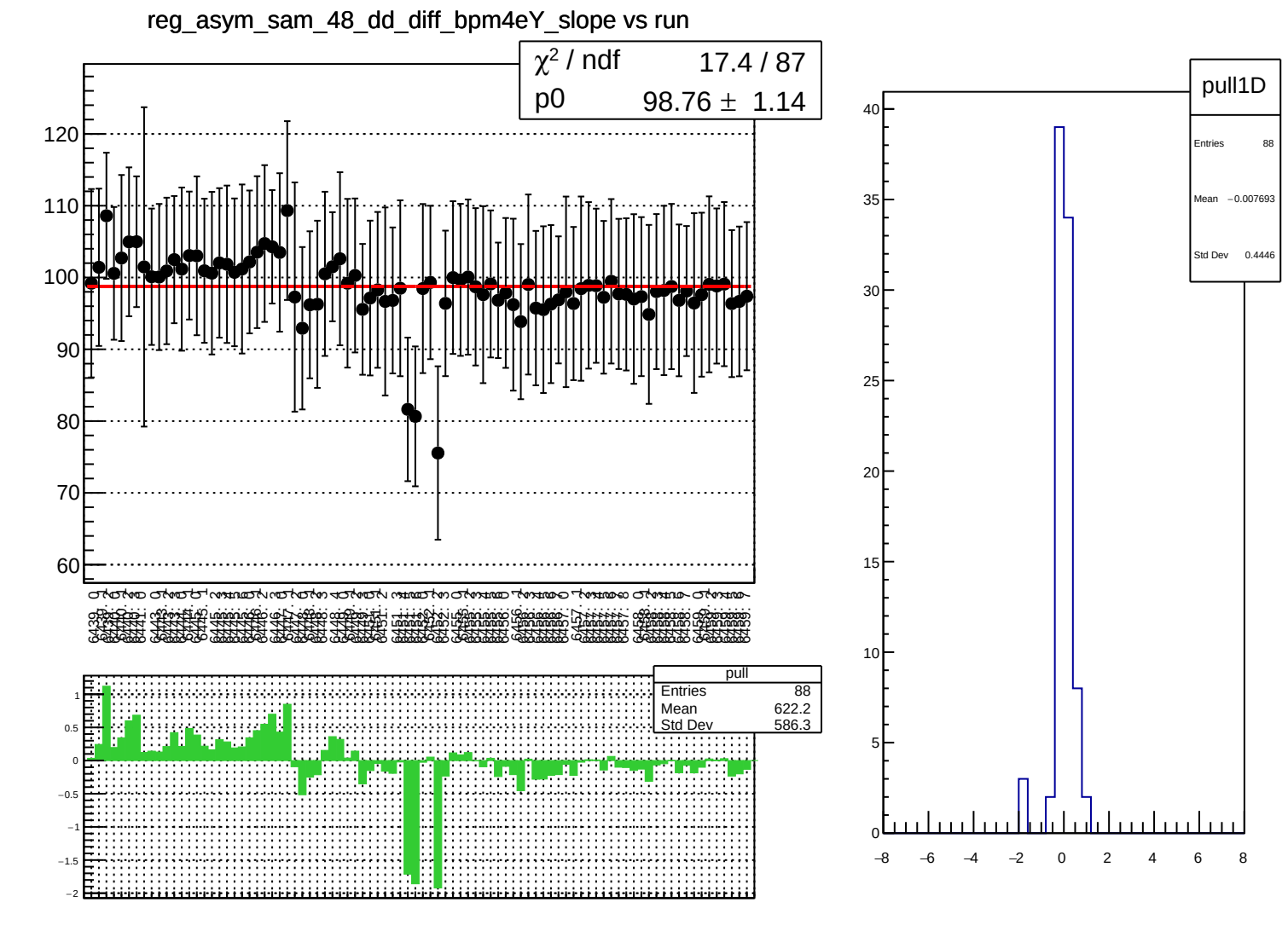

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 141.2 / 87
p0 −50.63 ± 1.626
pull
Entries 88
Mean −7.843
Std Dev 1.847
pull1D
Entries 88
Mean 0.2012
Std Dev 0.6442

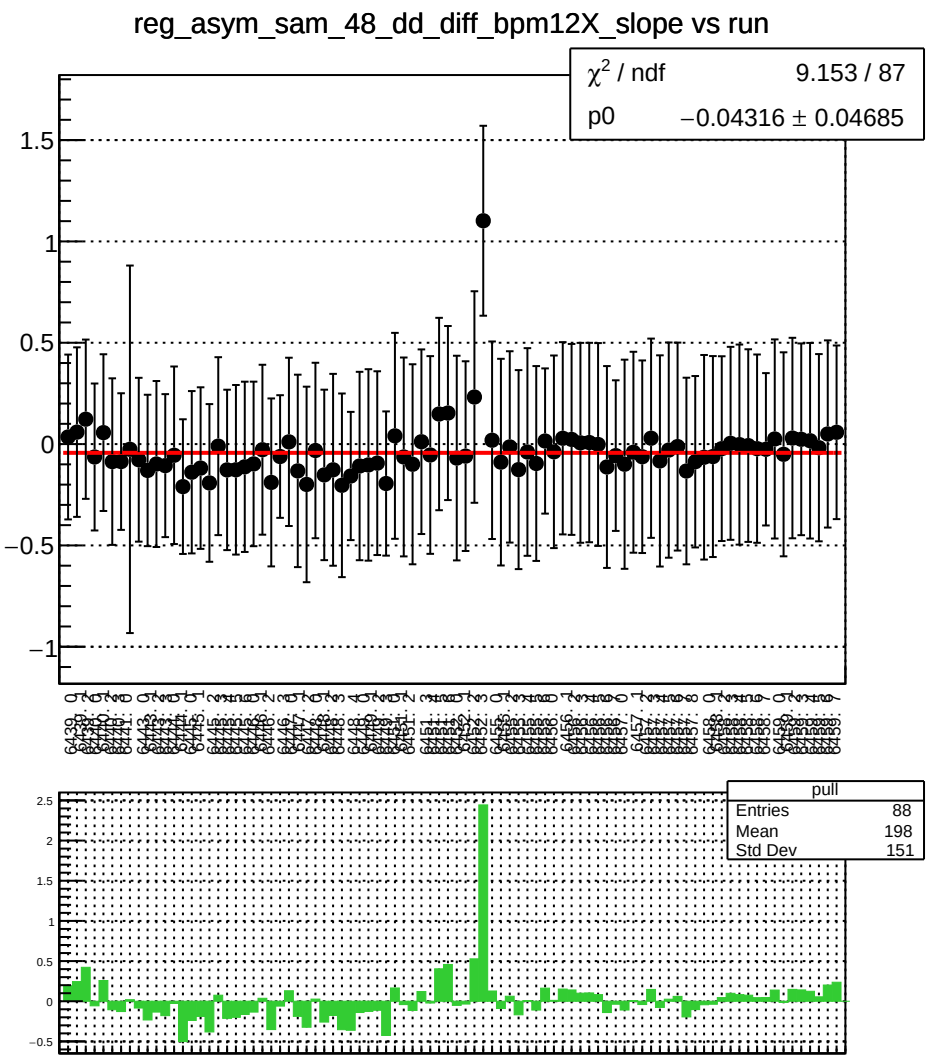

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.79 / 87
p0 27.5 ± 1.135
pull
Entries 88
Mean 240
Std Dev 210.8

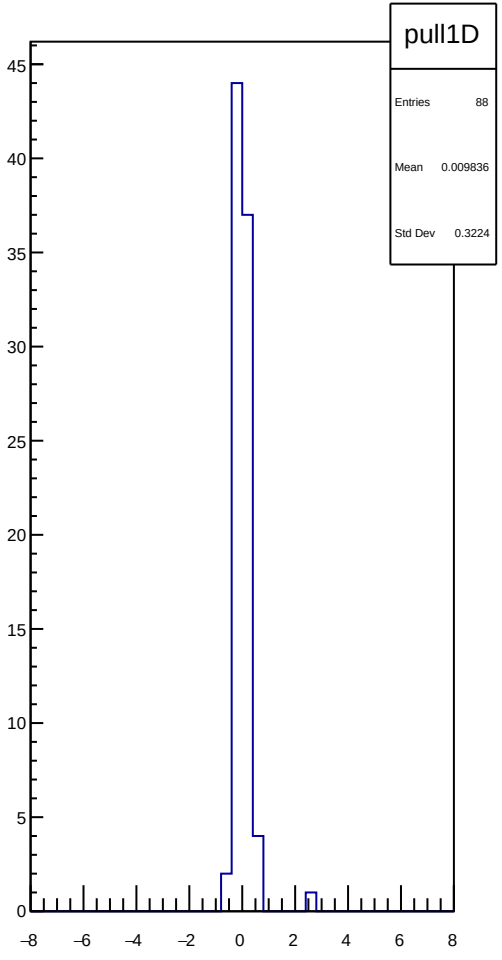

pull1D
Entries 88
Mean 0.01395
Std Dev 0.4619

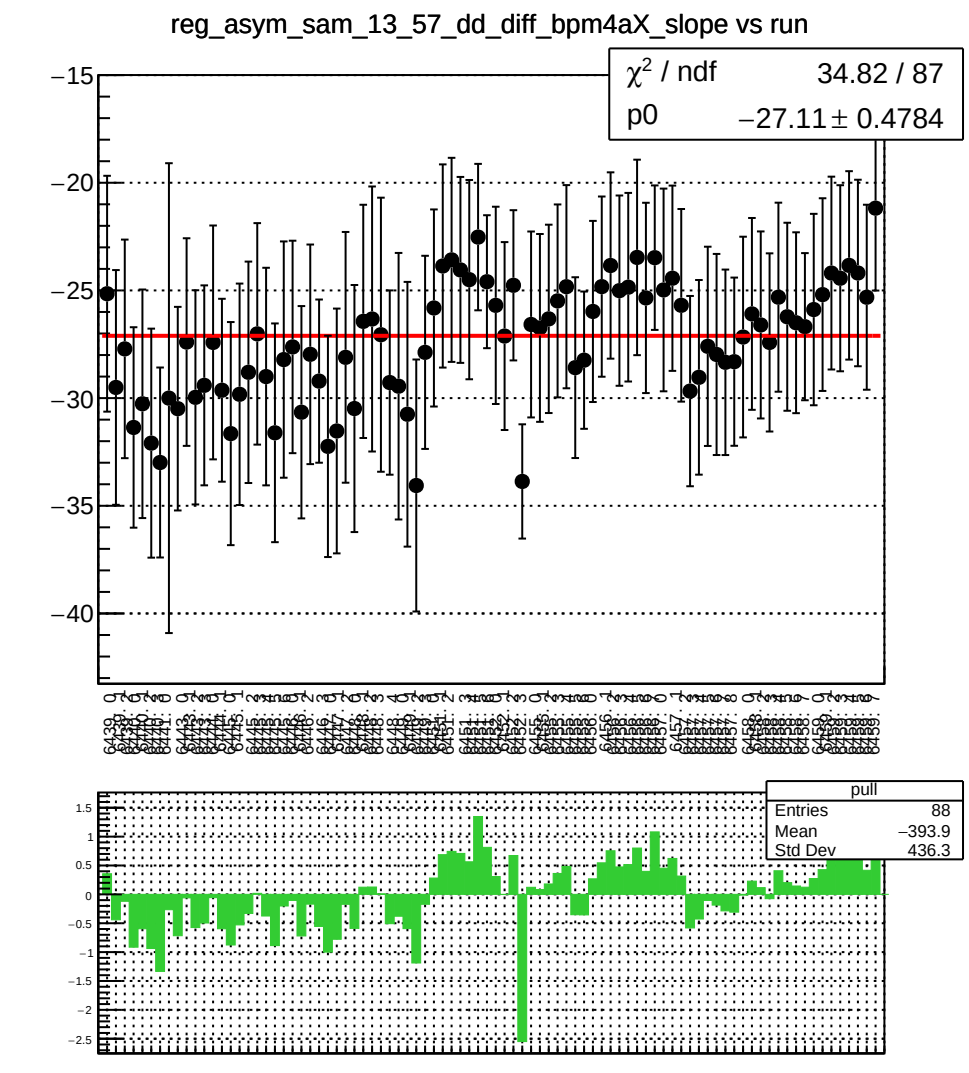

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.58 / 87
p0 −33.73 ± 1.767
pull
Entries 88
Mean −16.51
Std Dev 29.1

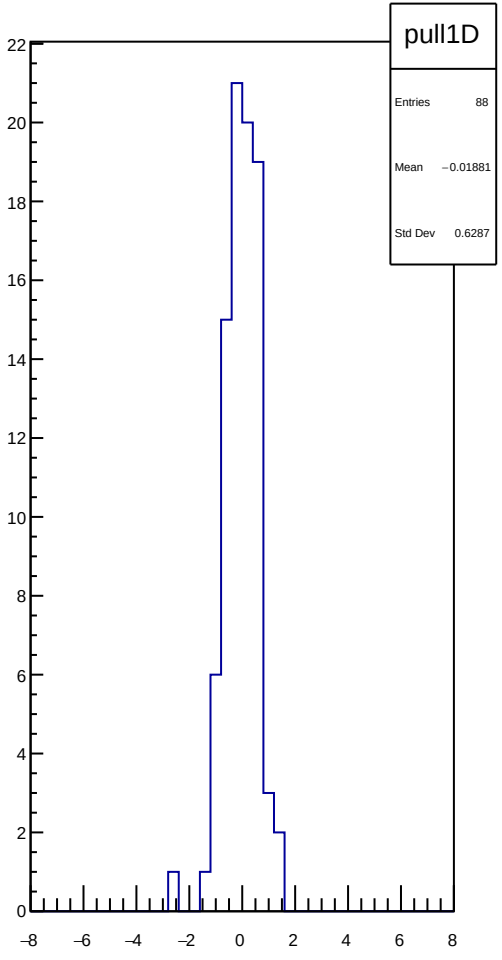

pull1D
Entries 88
Mean −0.06773
Std Dev 1.001

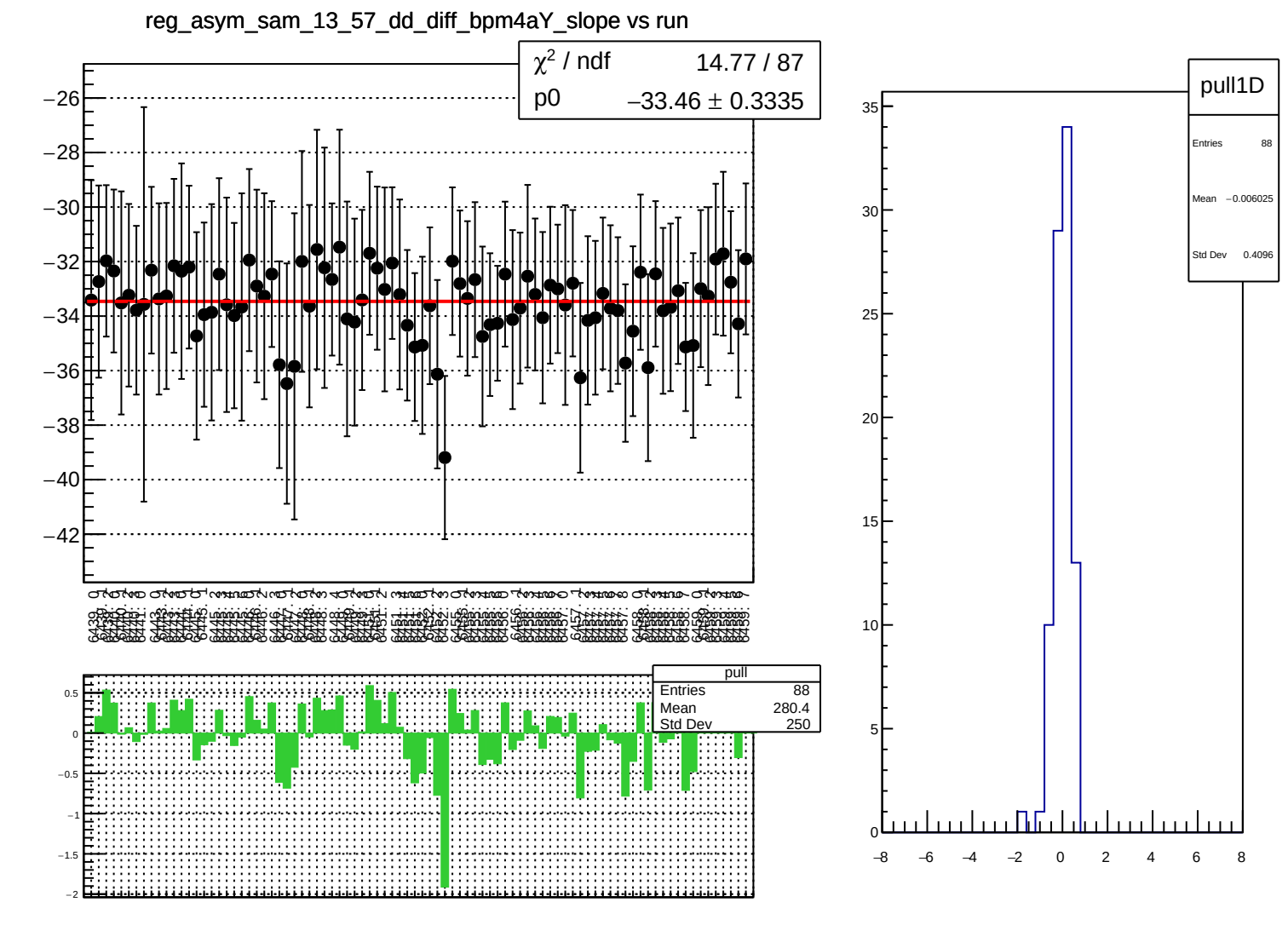

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.4 / 87
p0 98.76 ± 1.14
pull
Entries 88
Mean 622.2
Std Dev 586.3
pull1D
Entries 88
Mean −0.007693
Std Dev 0.4446

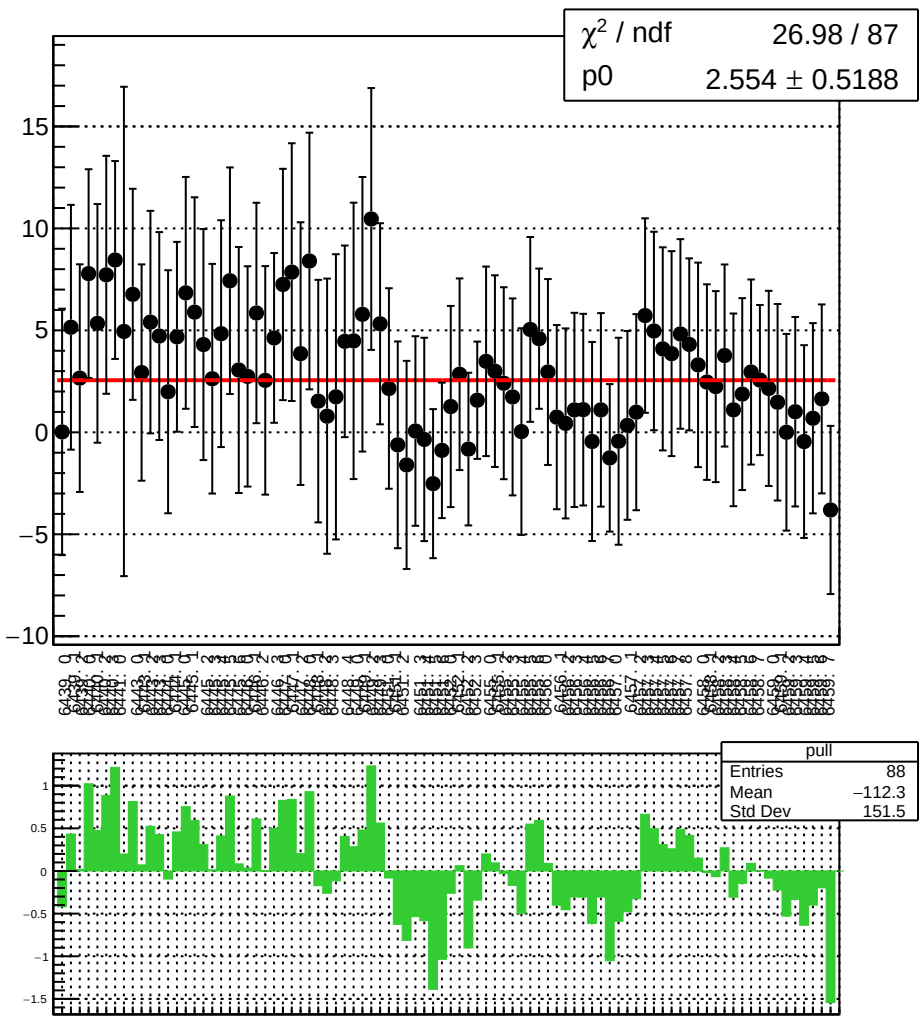

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 9.153 / 87
p0 −0.04316 ± 0.04685
pull
Entries 88
Mean 198
Std Dev 151

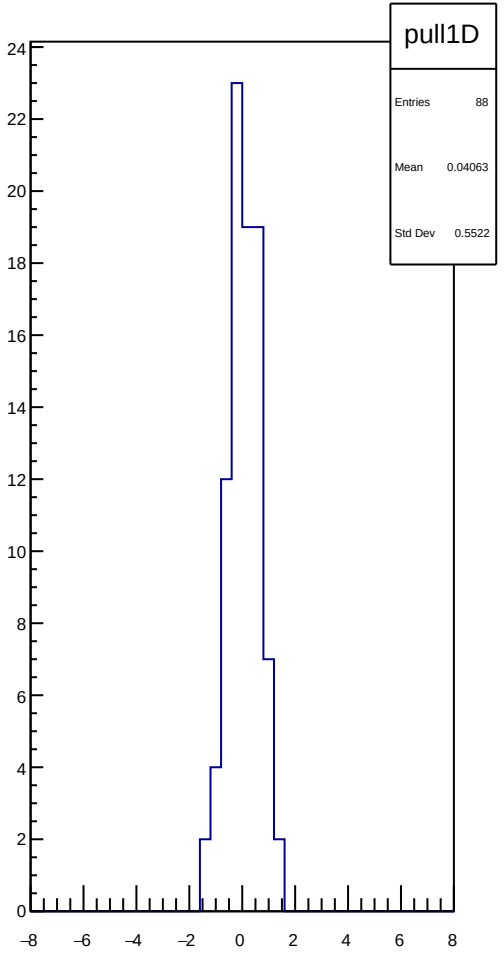

pull1D
Entries 88
Mean 0.009836
Std Dev 0.3224

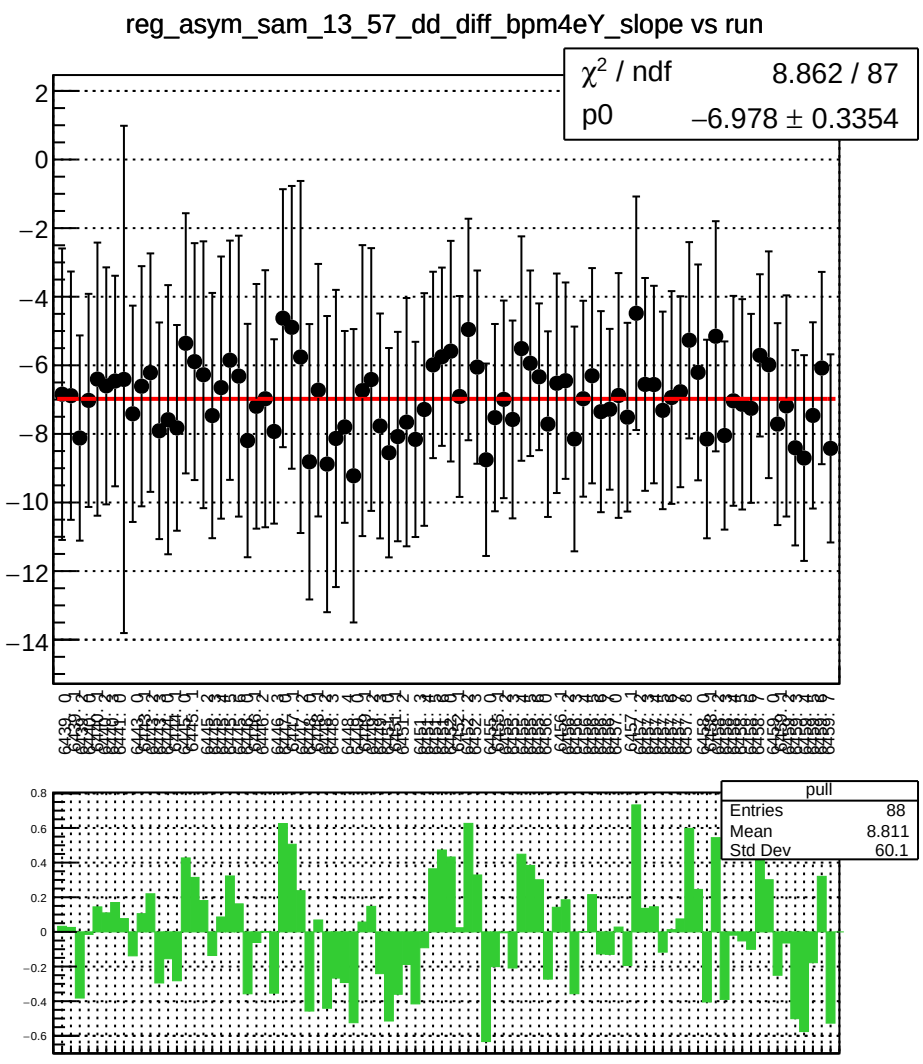

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 34.82 / 87
p0 −27.11 ± 0.4784
pull
Entries 88
Mean −393.9
Std Dev 436.3

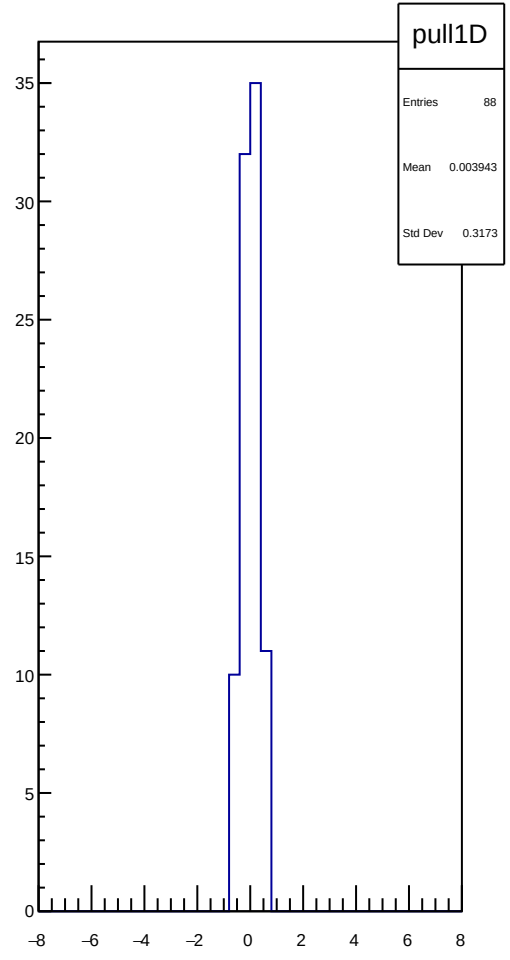

pull1D
Entries 88
Mean −0.01881
Std Dev 0.6287

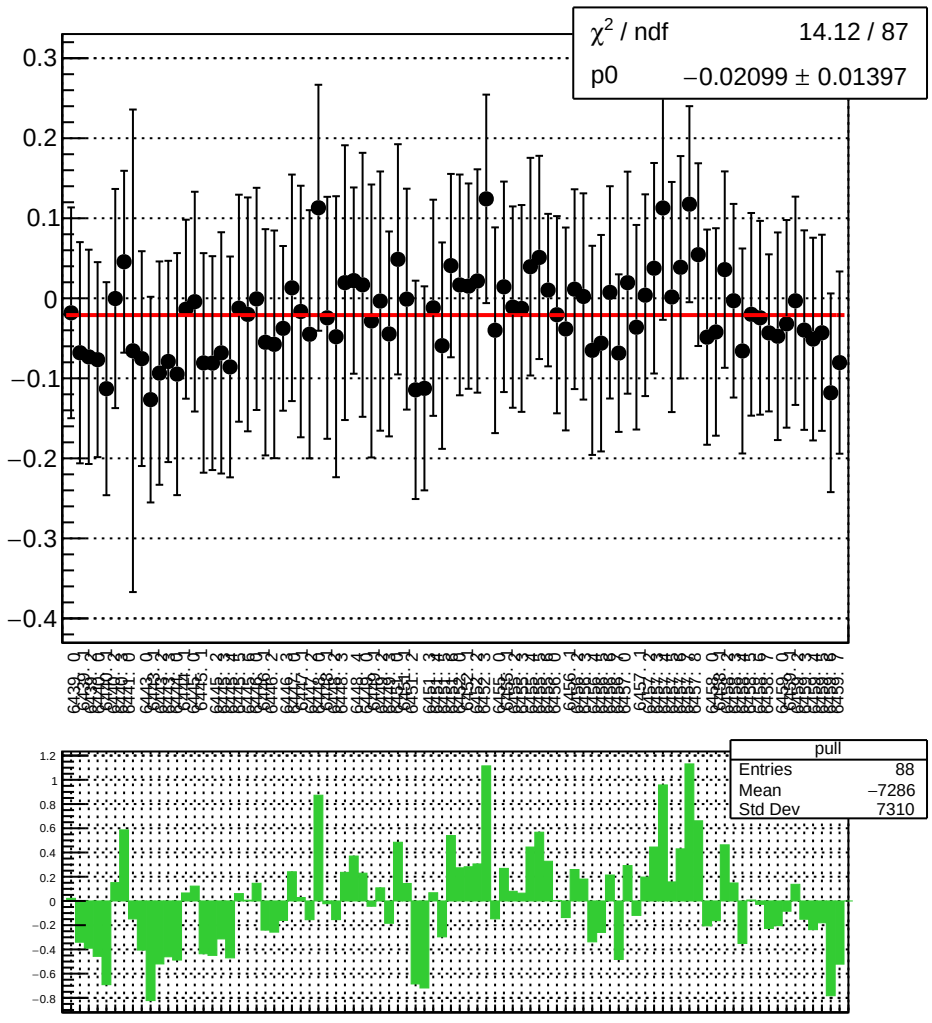

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.77 / 87
p0 −33.46 ± 0.3335
pull
Entries 88
Mean 280.4
Std Dev 250
pull1D
Entries 88
Mean −0.006025
Std Dev 0.4096

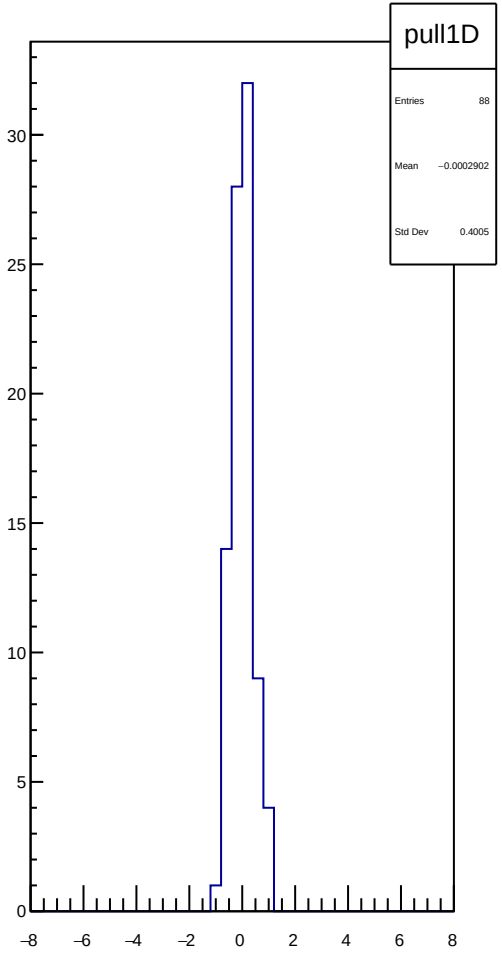

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.98 / 87
p0 2.554 ± 0.5188
pull
Entries 88
Mean −112.3
Std Dev 151.5

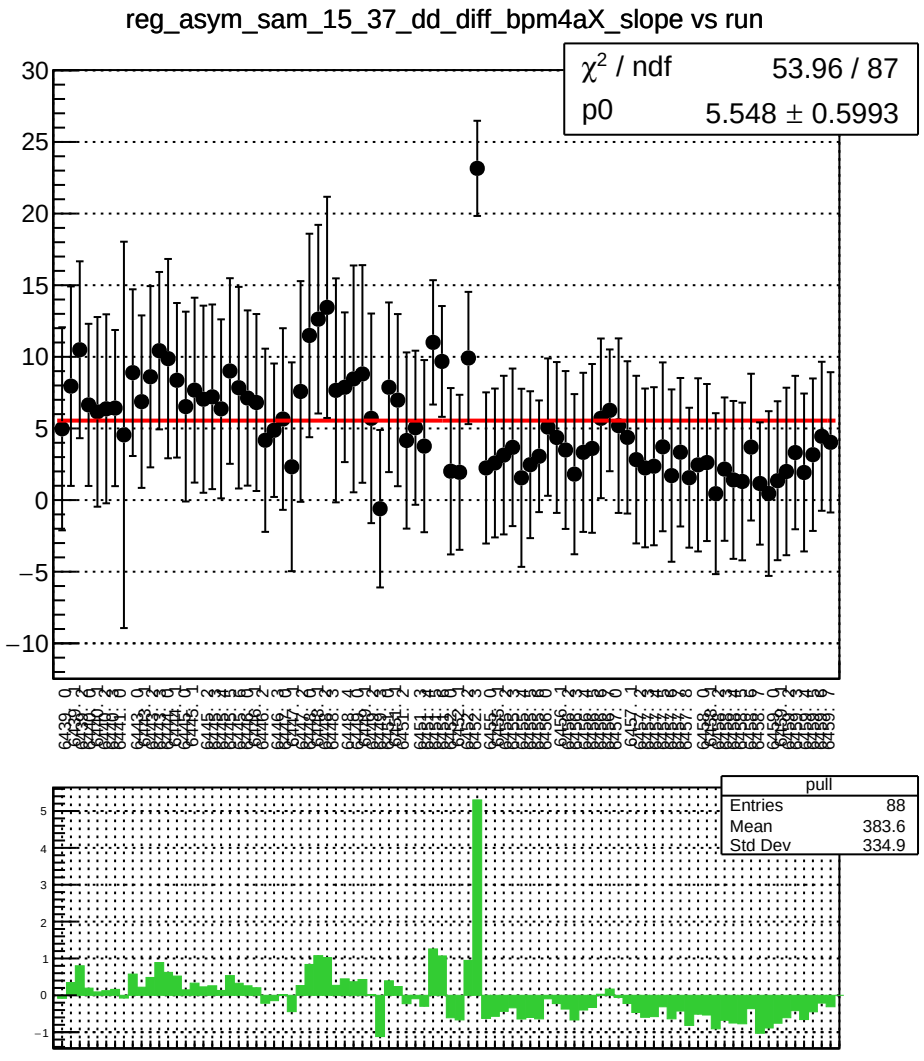

pull1D
Entries 88
Mean 0.04063
Std Dev 0.5522

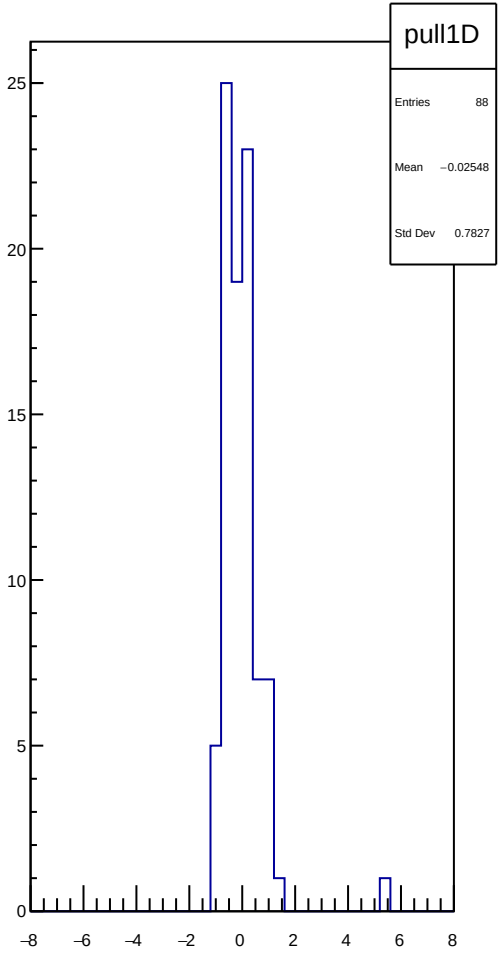

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.862 / 87
p0 −6.978 ± 0.3354
pull
Entries 88
Mean 8.811
Std Dev 60.1

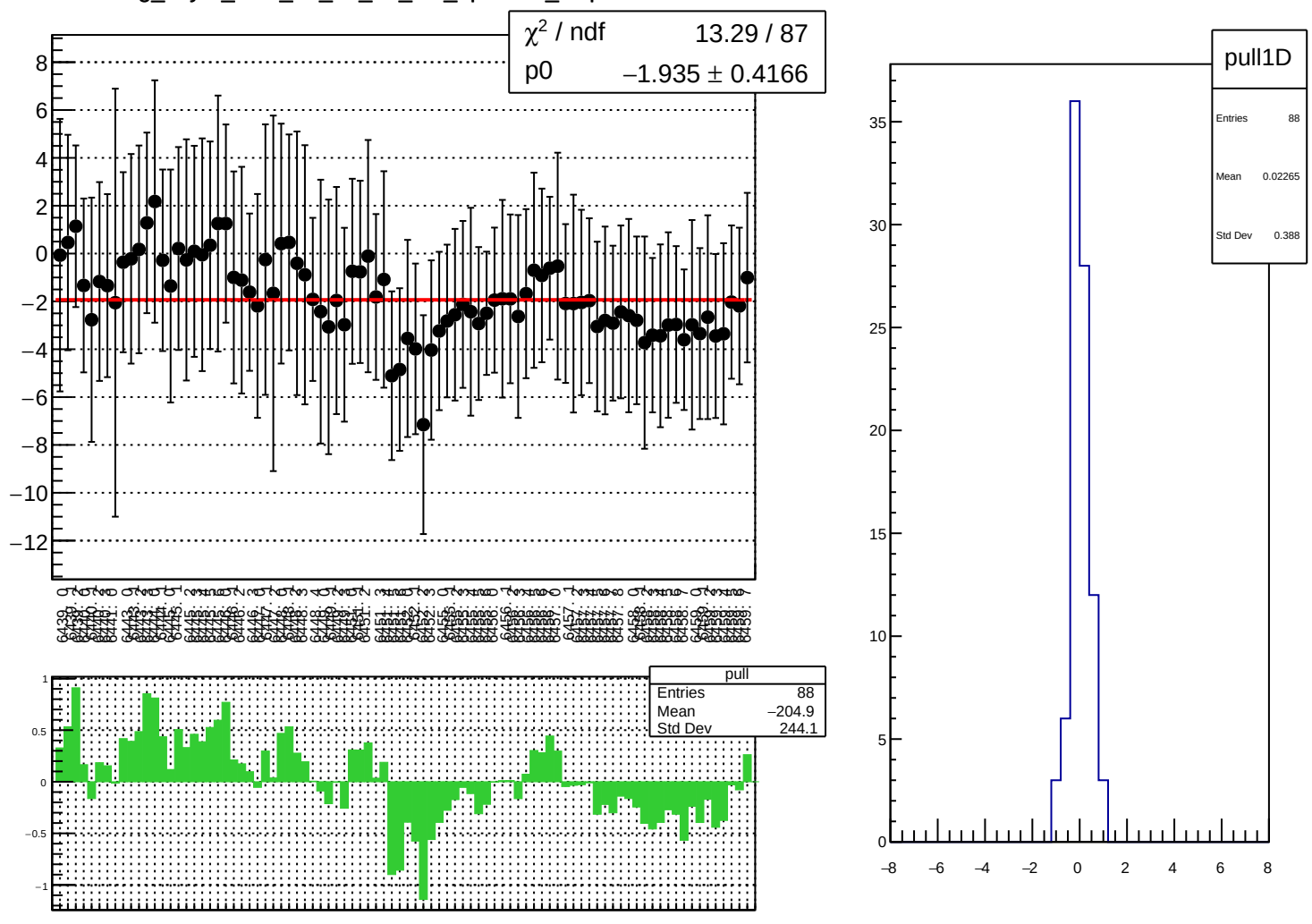

pull1D
Entries 88
Mean 0.003943
Std Dev 0.3173

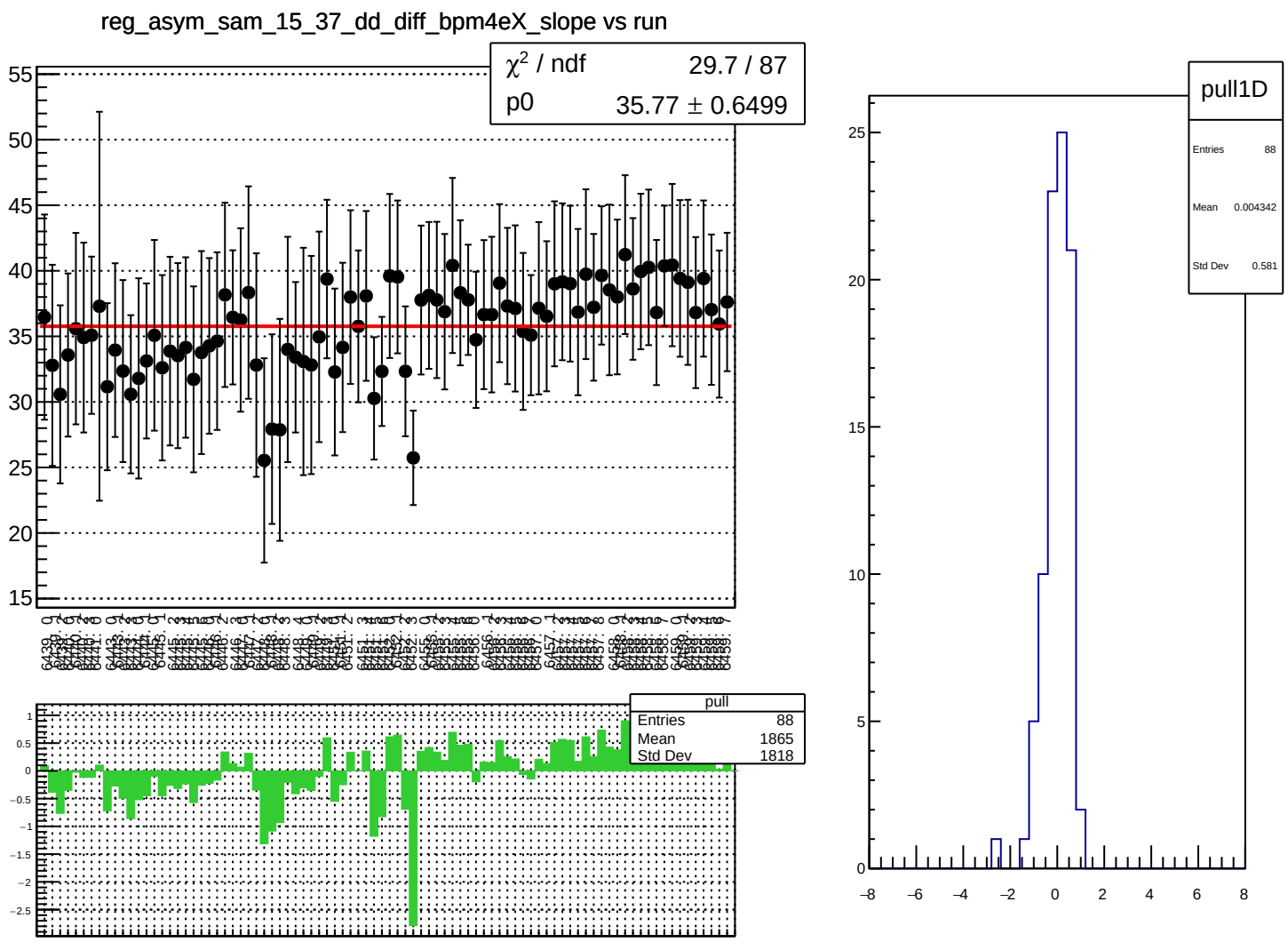

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 14.12 / 87
p0 −0.02099 ± 0.01397
pull
Entries 88
Mean −7286
Std Dev 7310

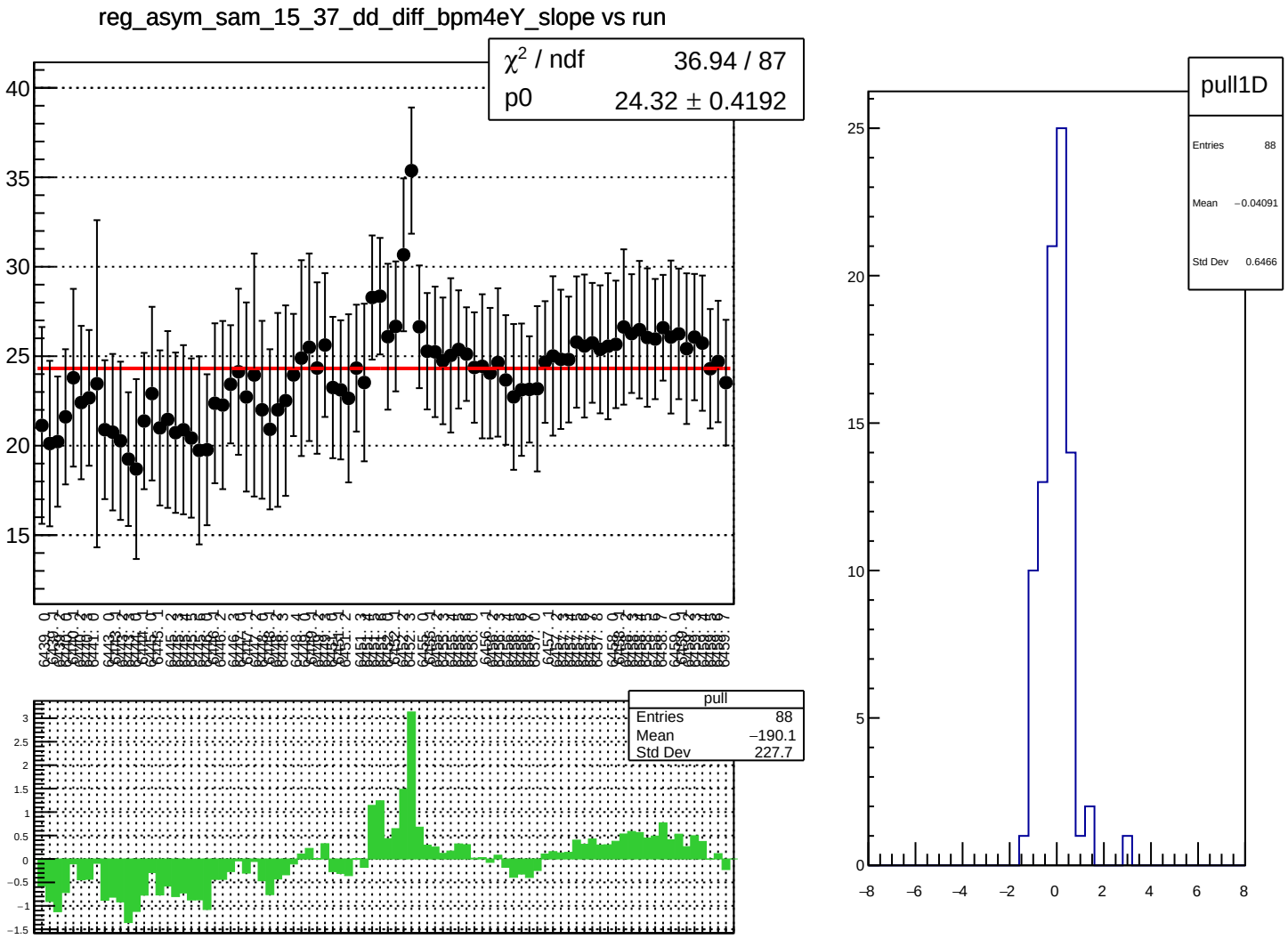

pull1D
Entries 88
Mean −0.0002902
Std Dev 0.4005

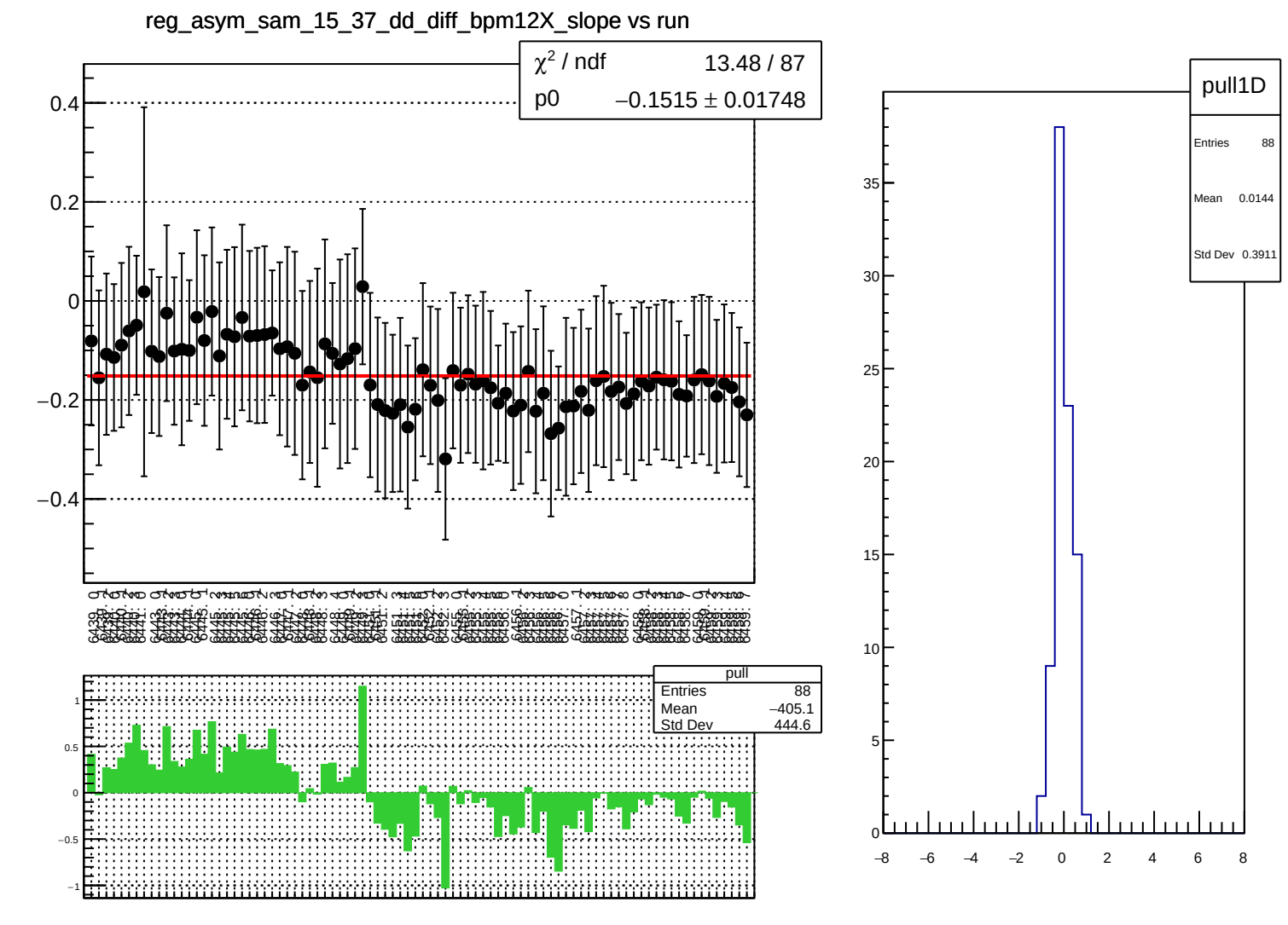

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 53.96 / 87
p0 5.548 ± 0.5993
pull
Entries 88
Mean 383.6
Std Dev 334.9

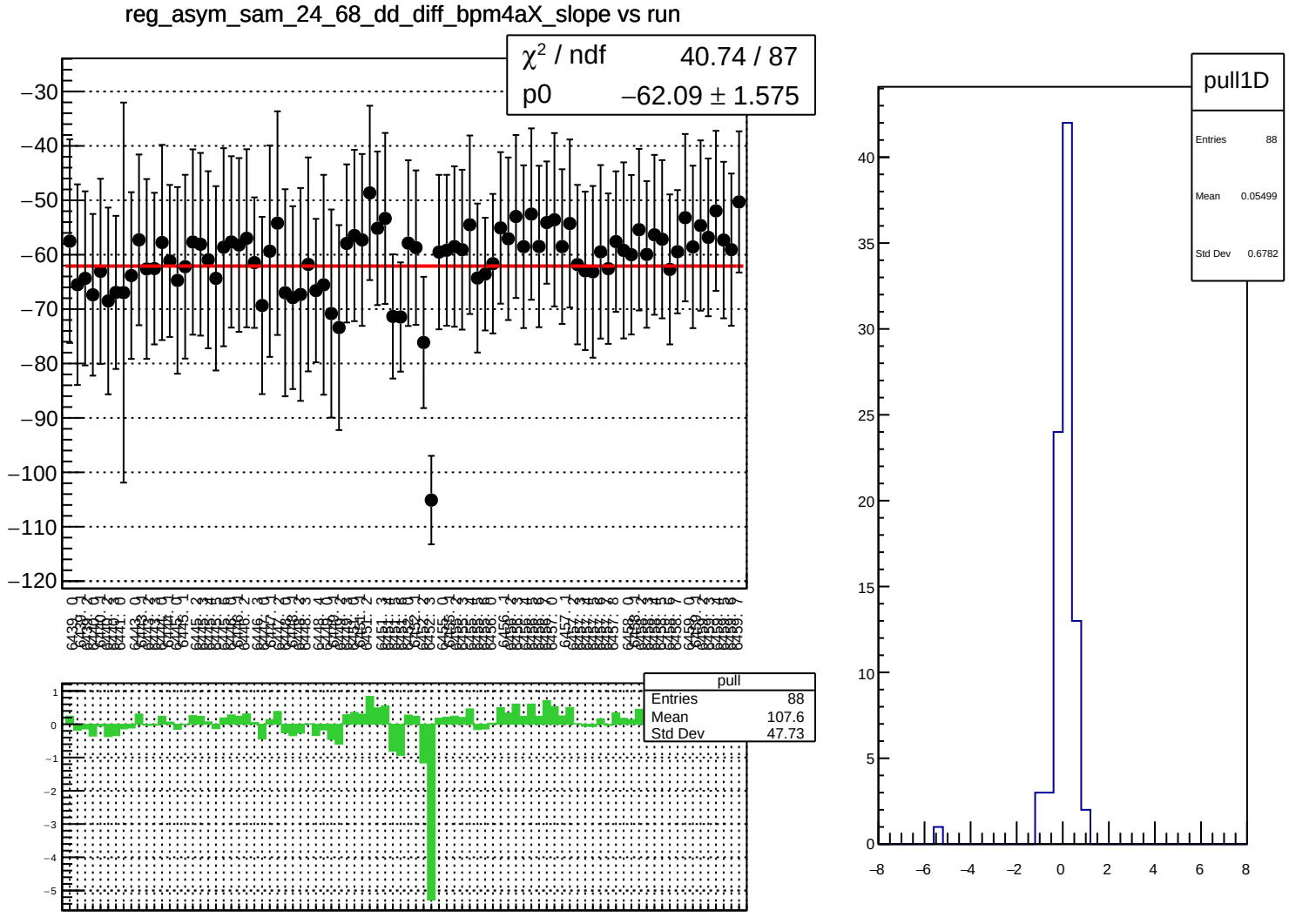

pull1D
Entries 88
Mean −0.02548
Std Dev 0.7827

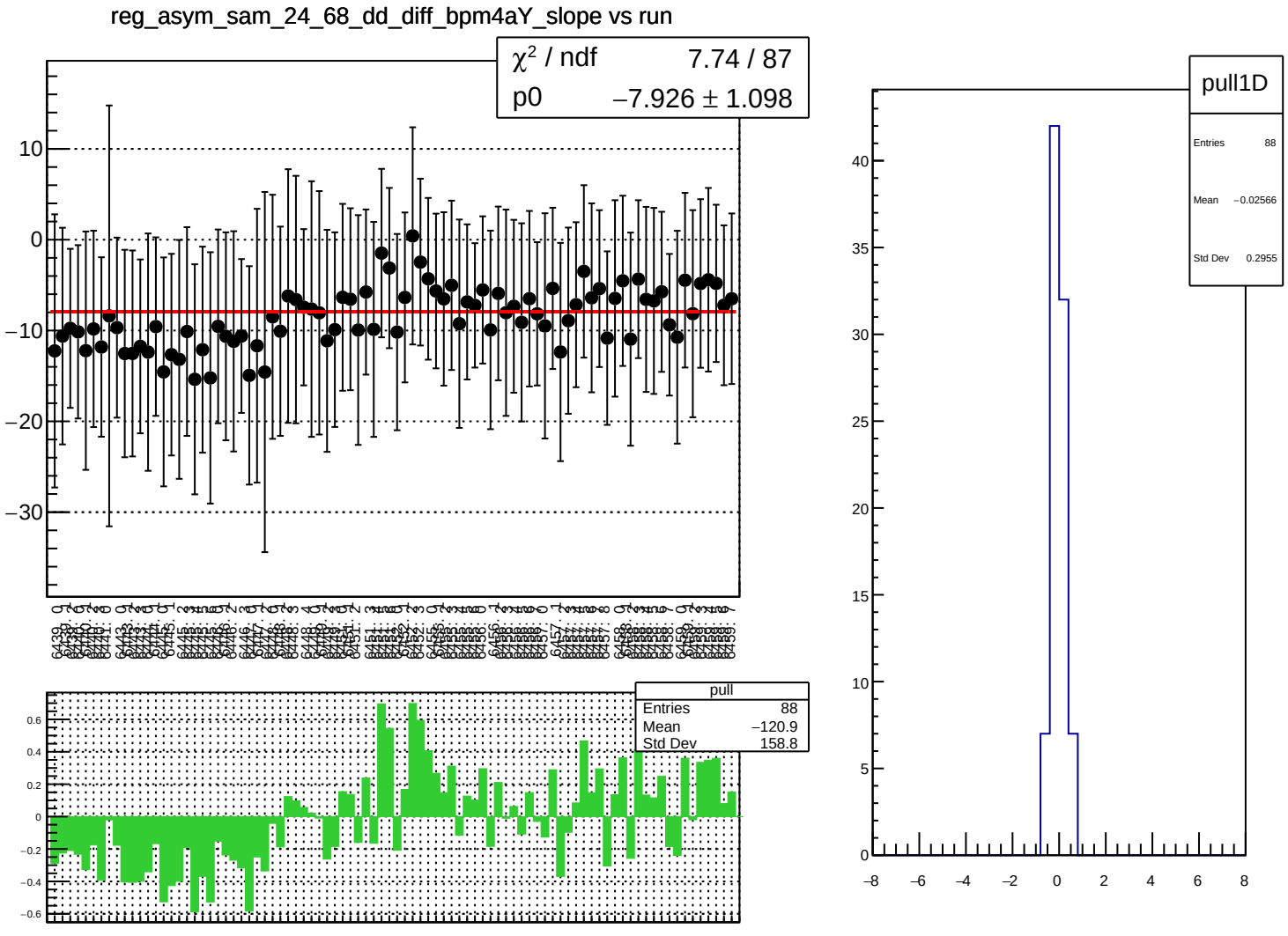

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.29 / 87
p0 −1.935 ± 0.4166
pull
Entries 88
Mean −204.9
Std Dev 244.1
pull1D
Entries 88
Mean 0.02265
Std Dev 0.388

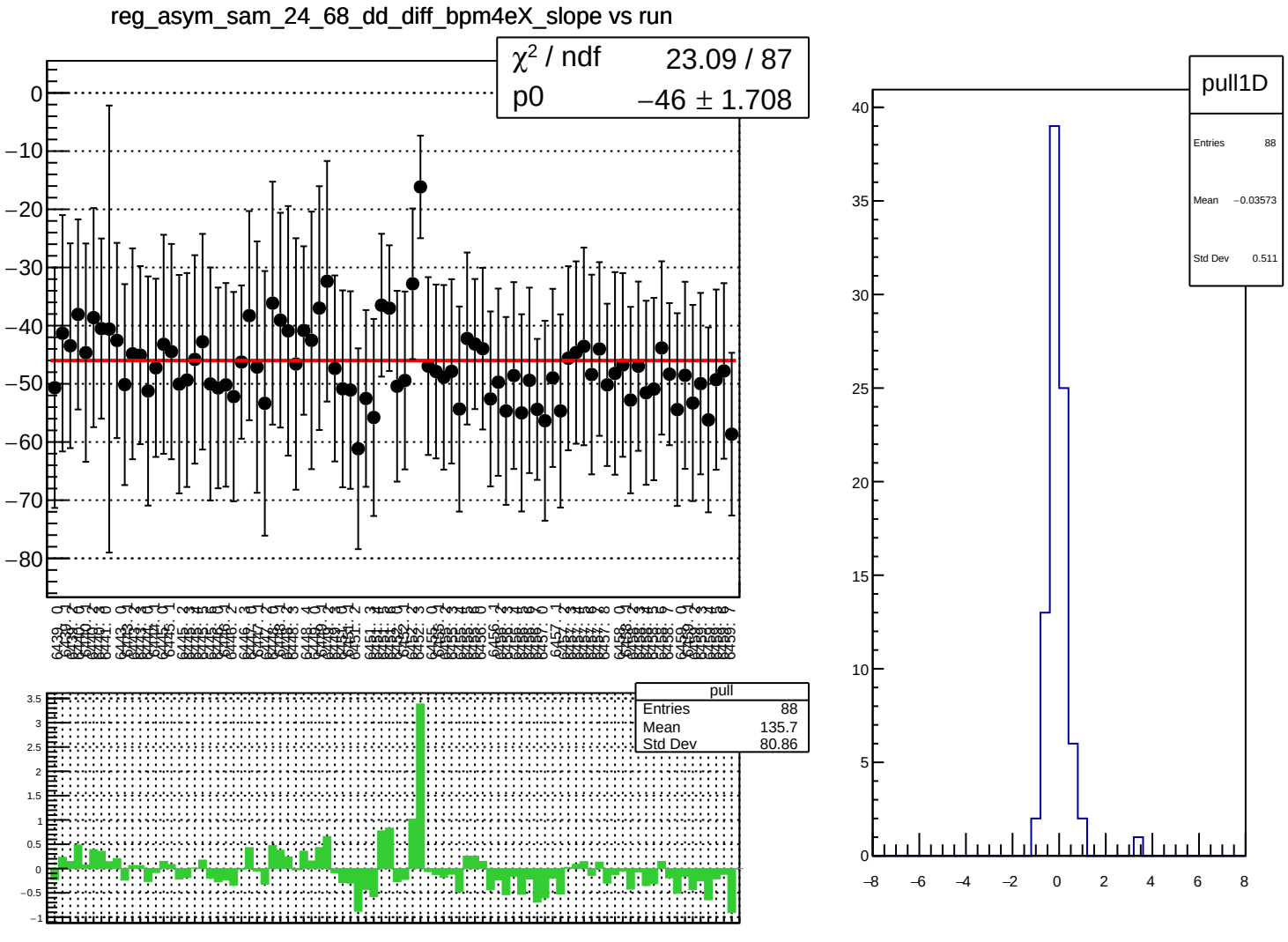

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.7 / 87
p0 35.77 ± 0.6499
pull
Entries 88
Mean 1865
Std Dev 1818
pull1D
Entries 88
Mean 0.004342
Std Dev 0.581

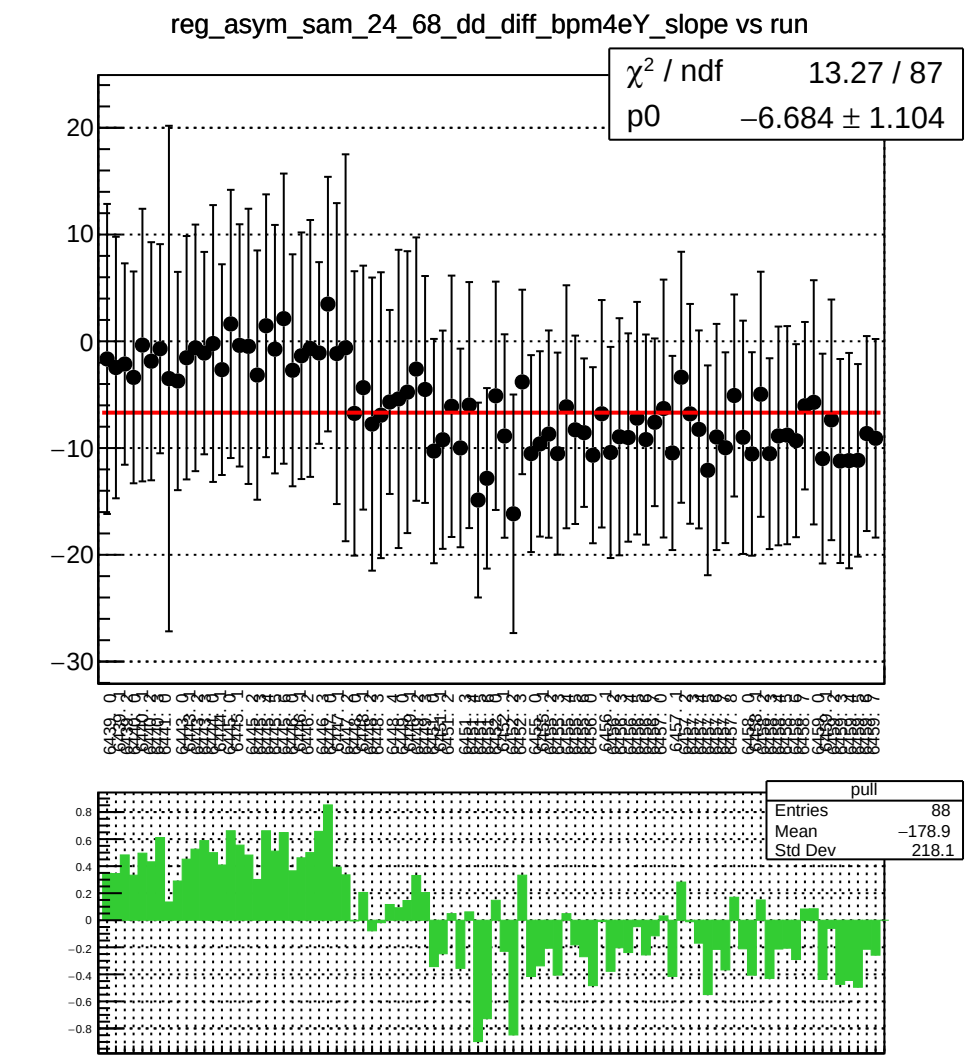

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.94 / 87
p0 24.32 ± 0.4192
pull
Entries 88
Mean −190.1
Std Dev 227.7
pull1D
Entries 88
Mean −0.04091
Std Dev 0.6466

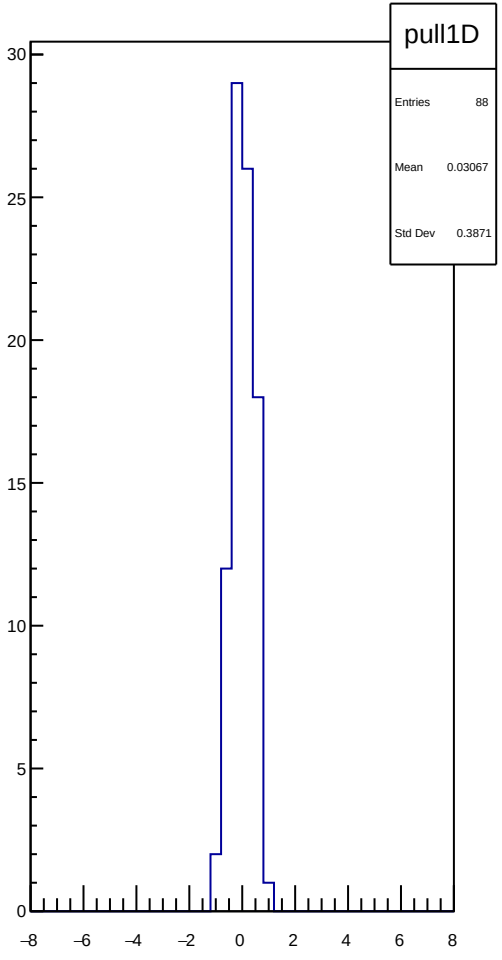

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 13.48 / 87
p0 −0.1515 ± 0.01748
pull
Entries 88
Mean −405.1
Std Dev 444.6
pull1D
Entries 88
Mean 0.0144
Std Dev 0.3911

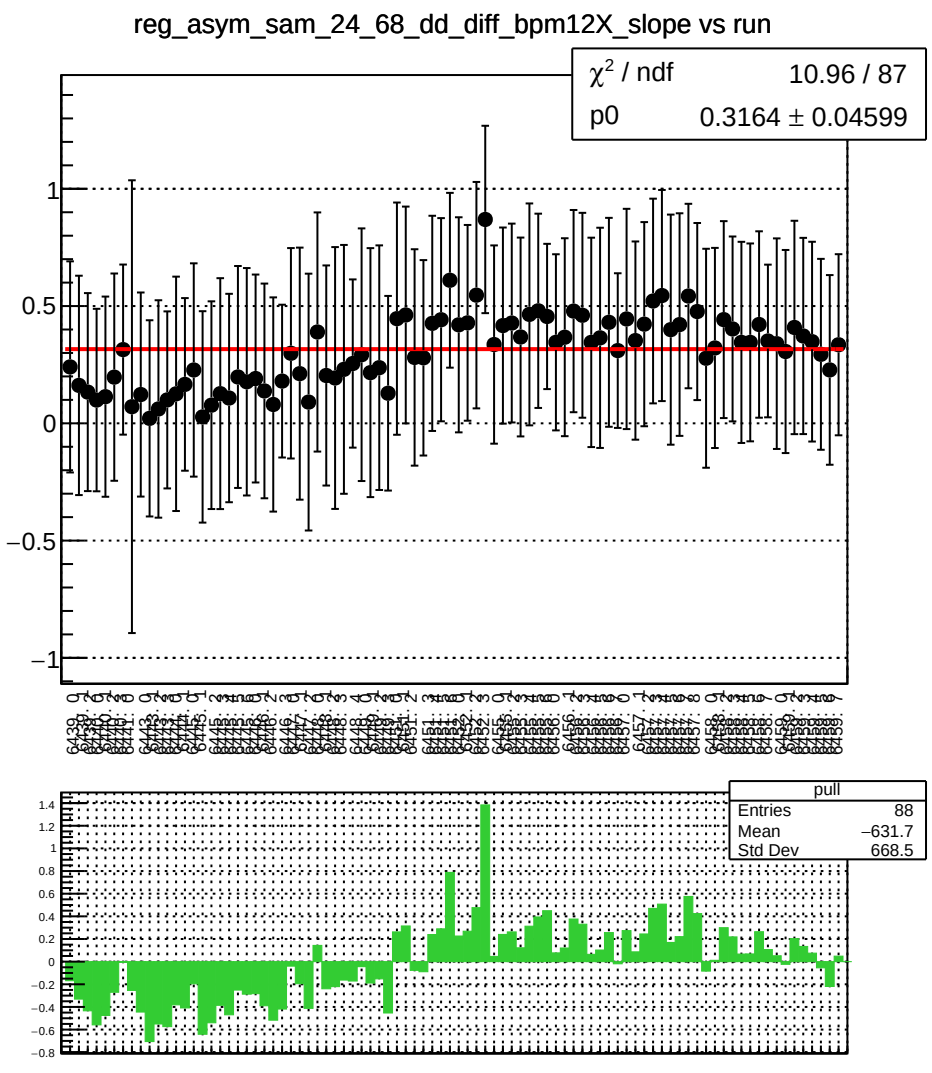

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 40.74 / 87
p0 −62.09 ± 1.575
pull
Entries 88
Mean 107.6
Std Dev 47.73
pull1D
Entries 88
Mean 0.05499
Std Dev 0.6782

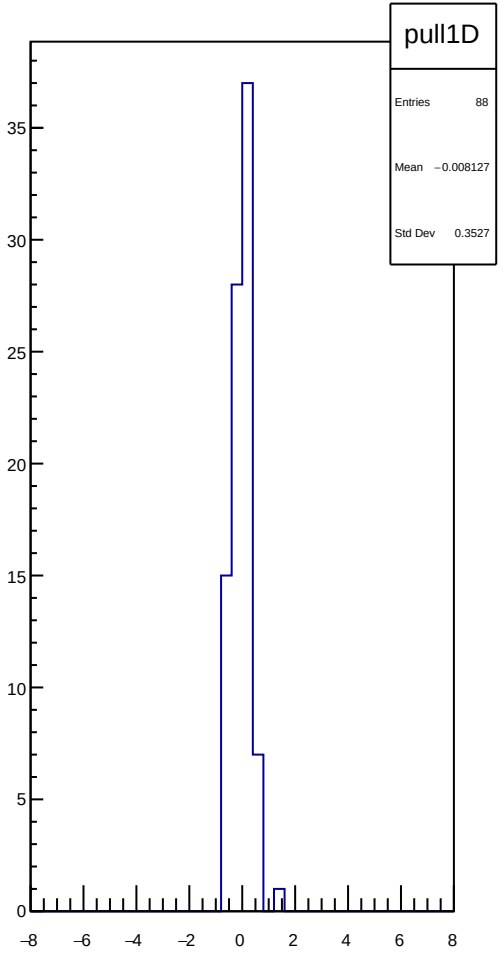

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.74 / 87
p0 −7.926 ± 1.098
pull
Entries 88
Mean −120.9
Std Dev 158.8
pull1D
Entries 88
Mean −0.02566
Std Dev 0.2955

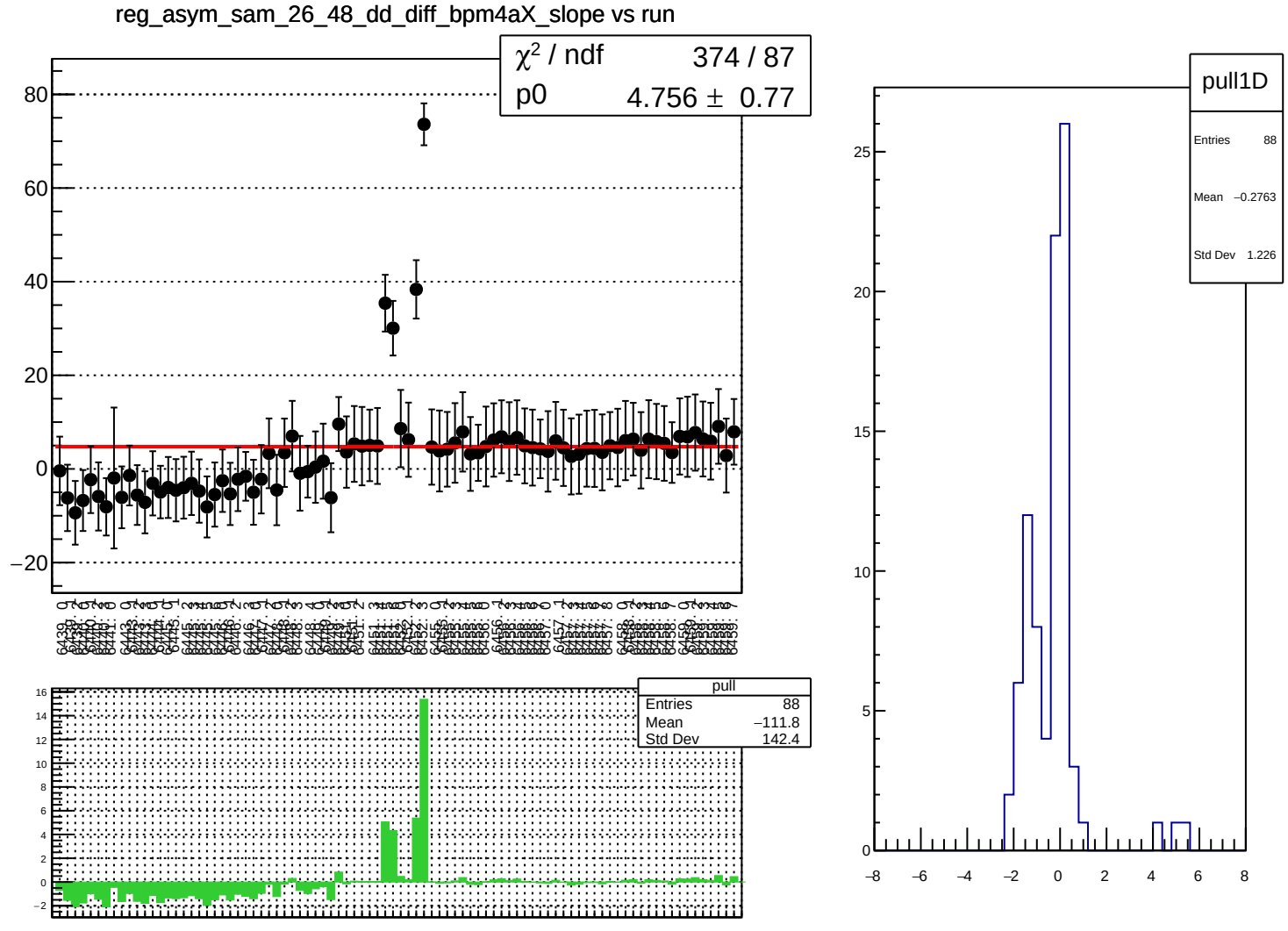

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.09 / 87
p0 −46 ± 1.708
pull
Entries 88
Mean 135.7
Std Dev 80.86
pull1D
Entries 88
Mean −0.03573
Std Dev 0.511

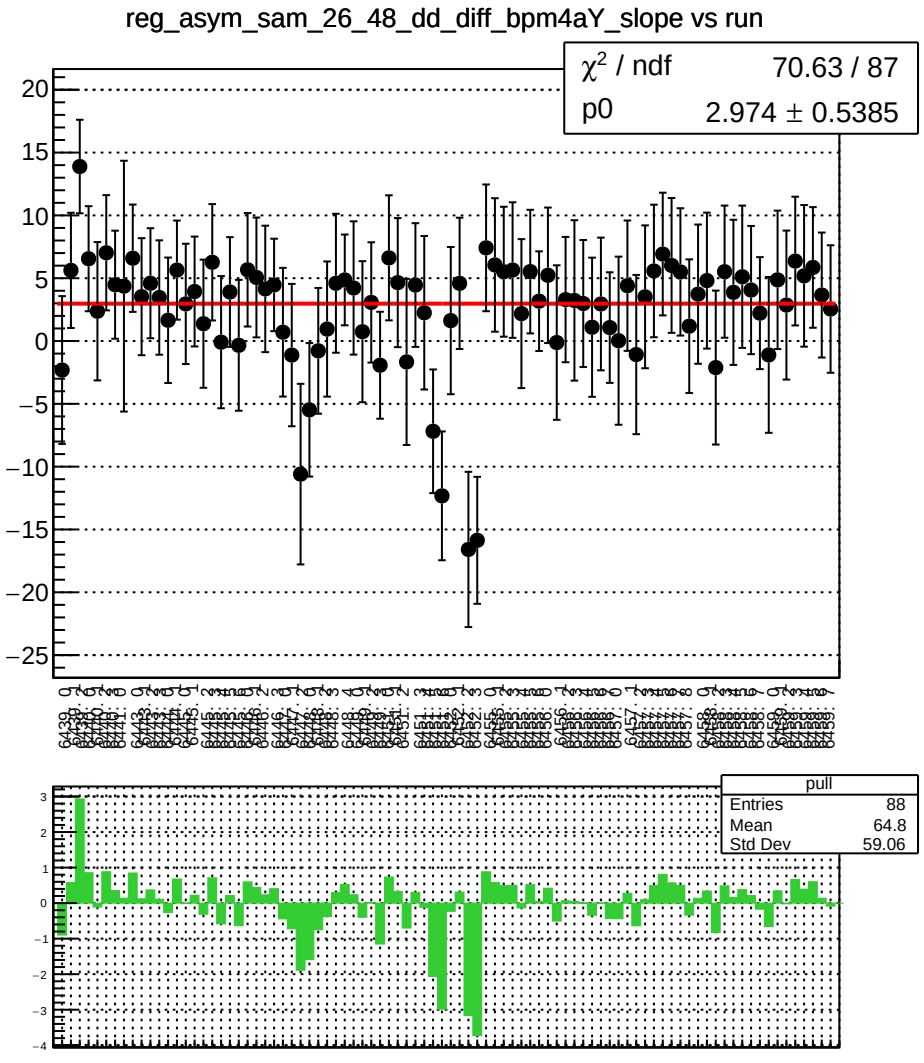

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.27 / 87
p0 −6.684 ± 1.104
pull
Entries 88
Mean −178.9
Std Dev 218.1

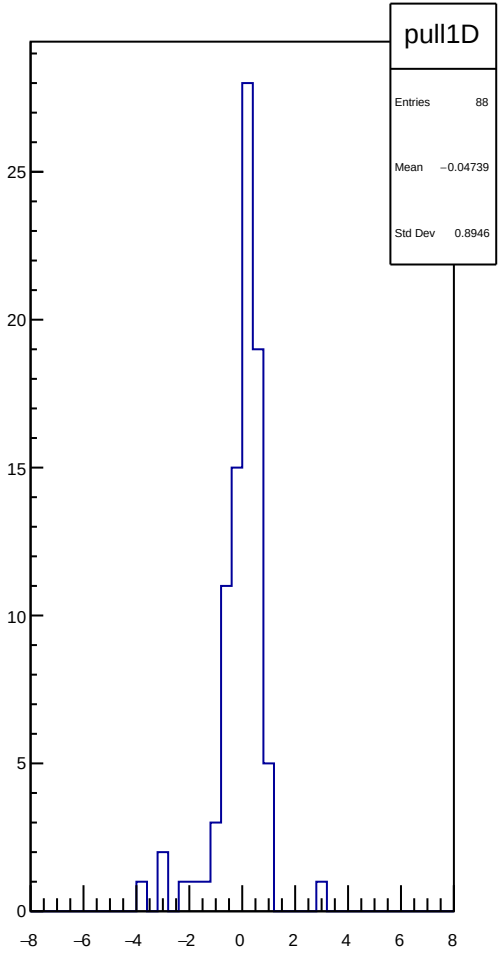

pull1D
Entries 88
Mean 0.03067
Std Dev 0.3871

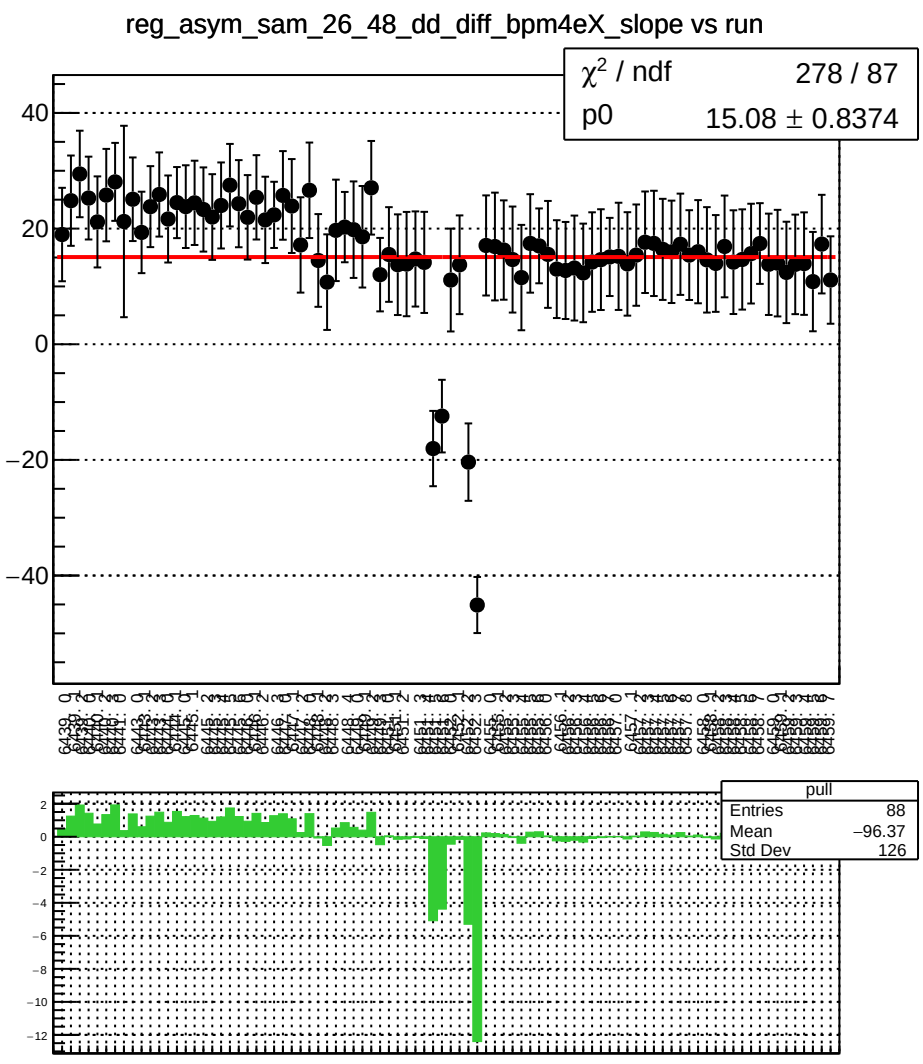

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 10.96 / 87
p0 0.3164 ± 0.04599
pull
Entries 88
Mean −631.7
Std Dev 668.5

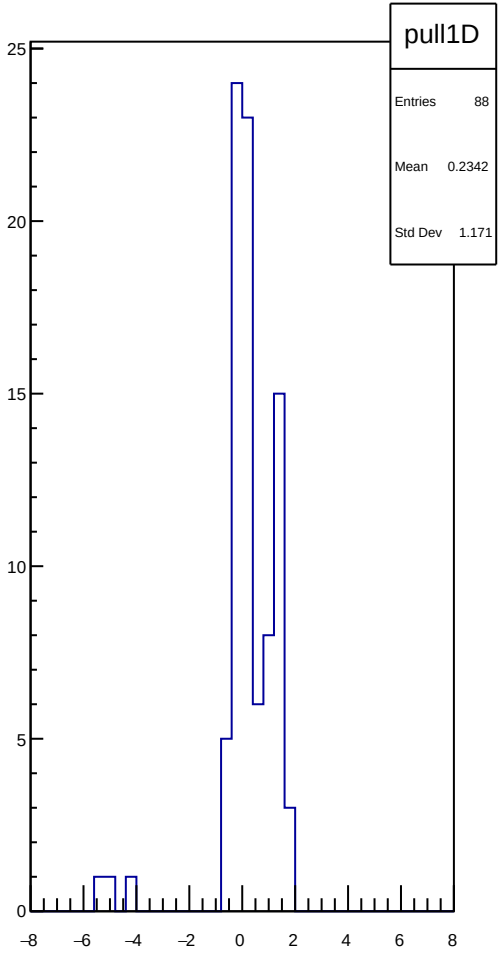

pull1D
Entries 88
Mean −0.008127
Std Dev 0.3527

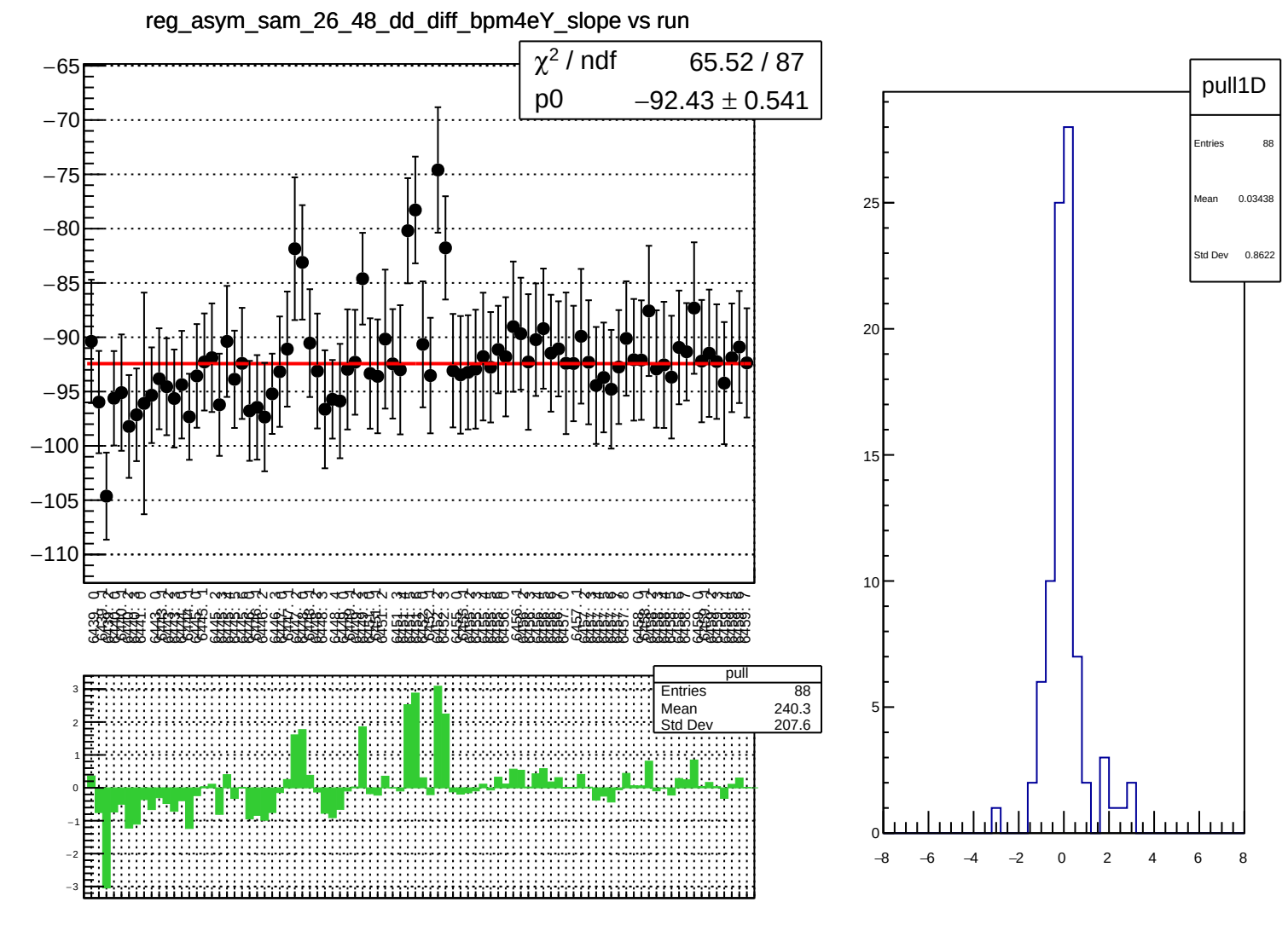

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 374 / 87
p0 4.756 ± 0.77
pull
Entries 88
Mean −111.8
Std Dev 142.4
pull1D
Entries 88
Mean −0.2763
Std Dev 1.226

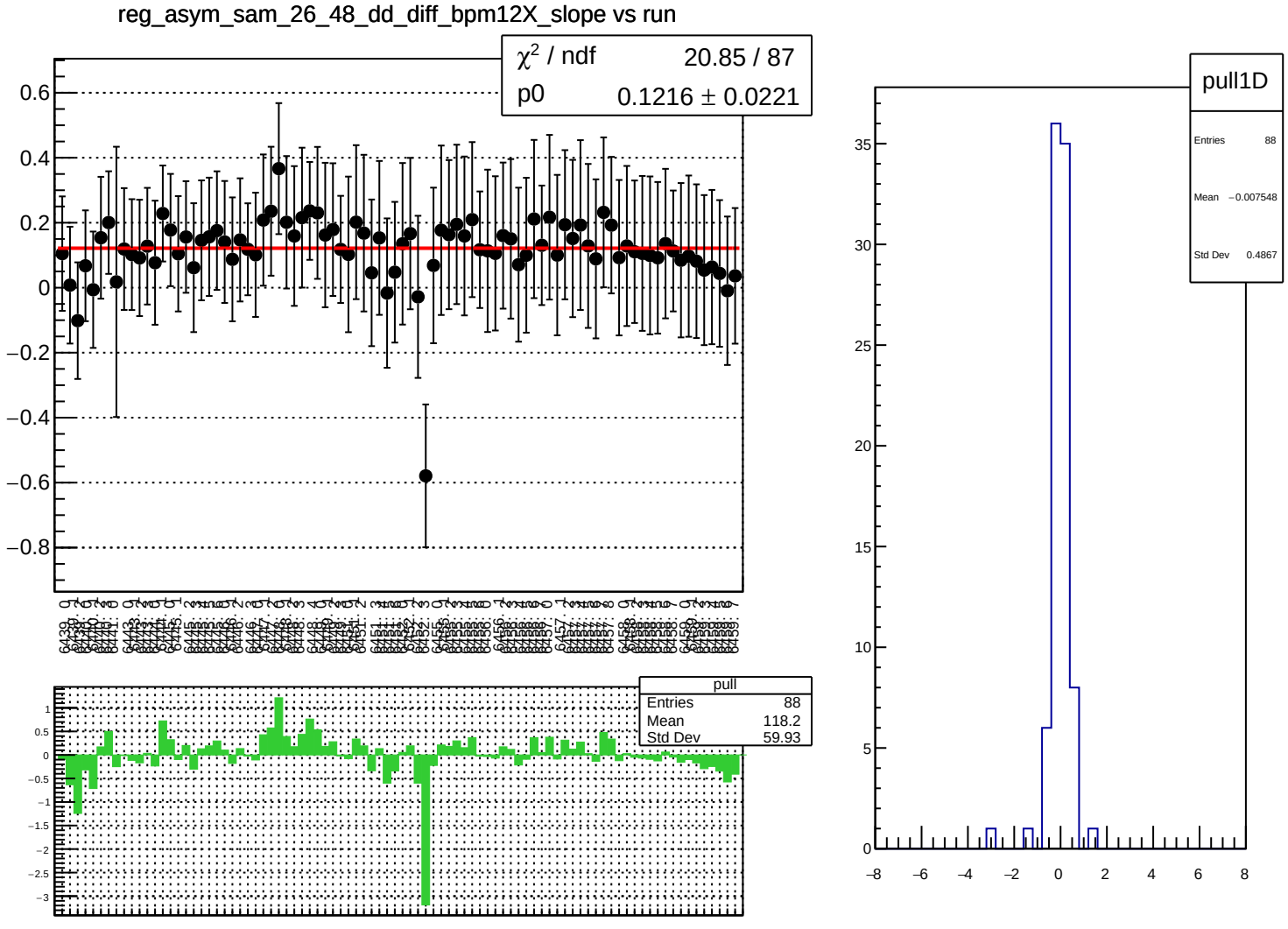

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 70.63 / 87
p0 2.974 ± 0.5385
pull
Entries 88
Mean 64.8
Std Dev 59.06

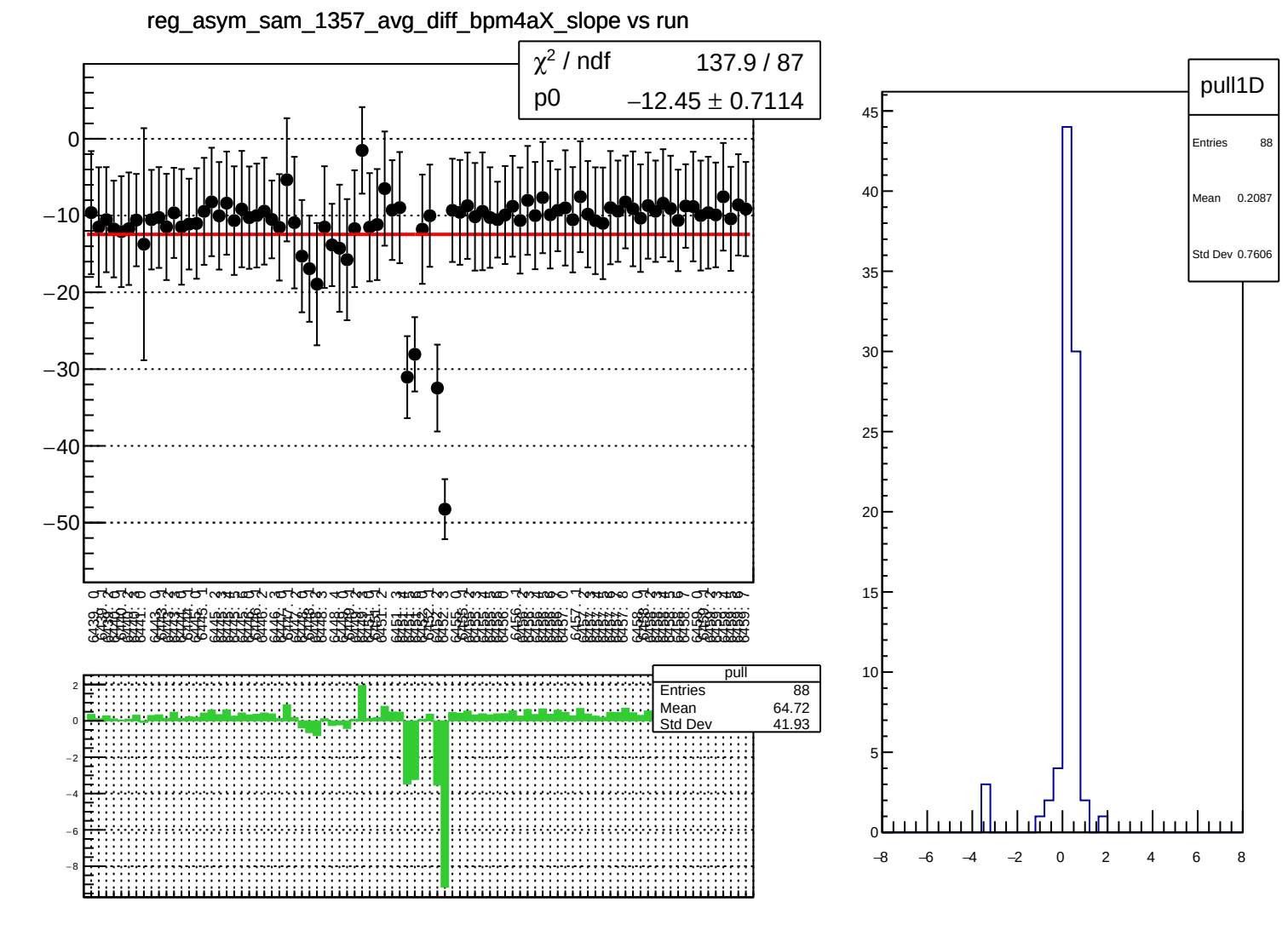

pull1D
Entries 88
Mean −0.04739
Std Dev 0.8946

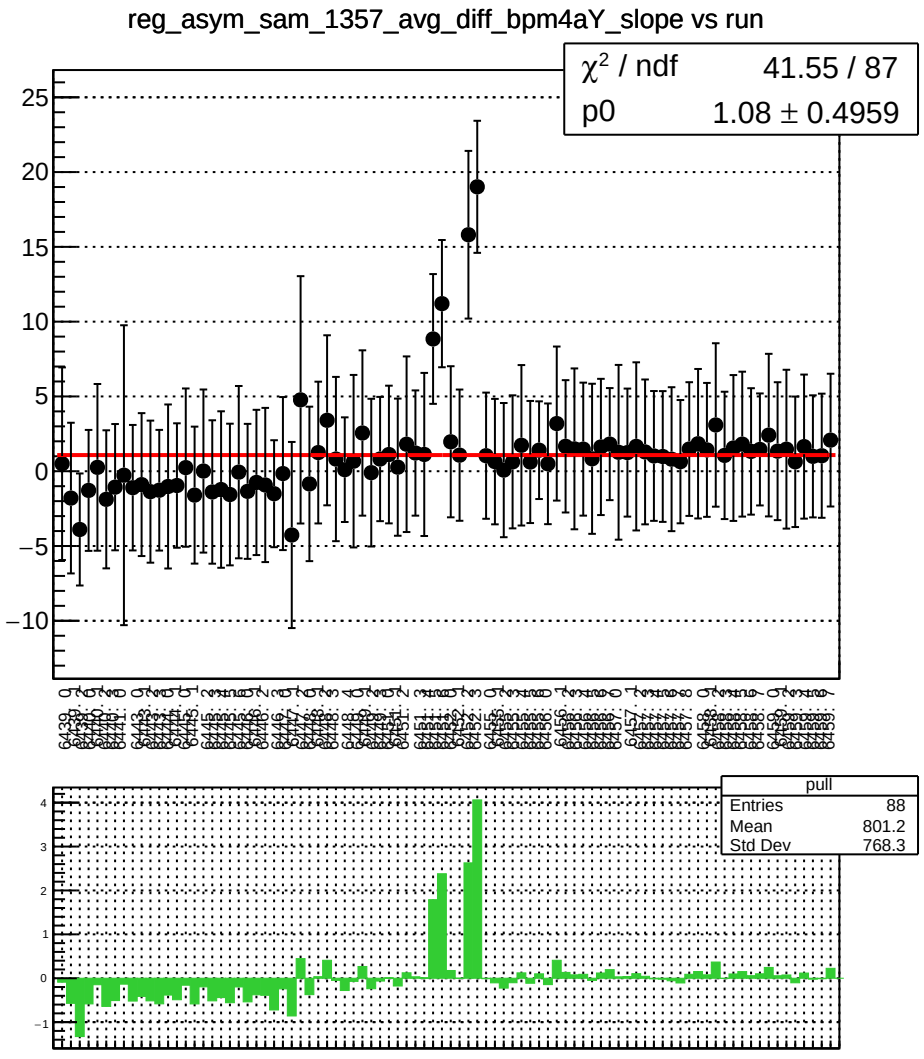

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 278 / 87
p0 15.08 ± 0.8374
pull
Entries 88
Mean −96.37
Std Dev 126

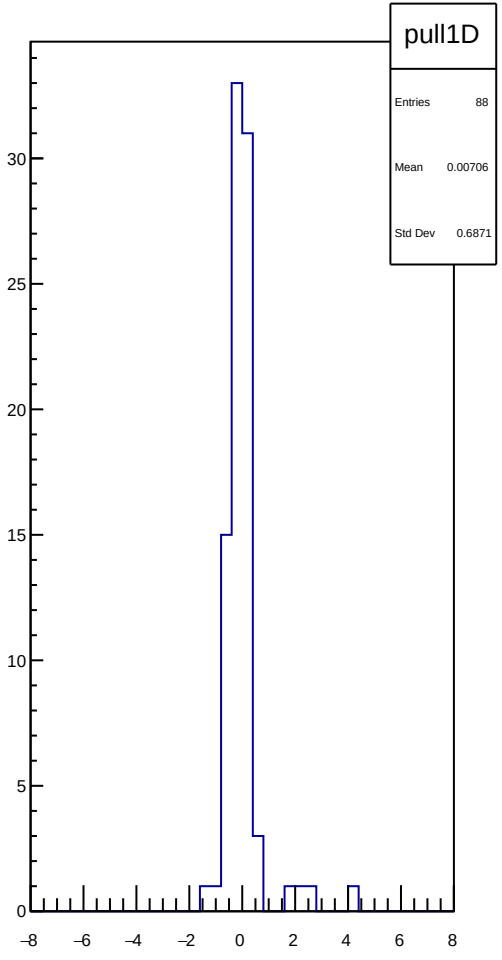

pull1D
Entries 88
Mean 0.2342
Std Dev 1.171

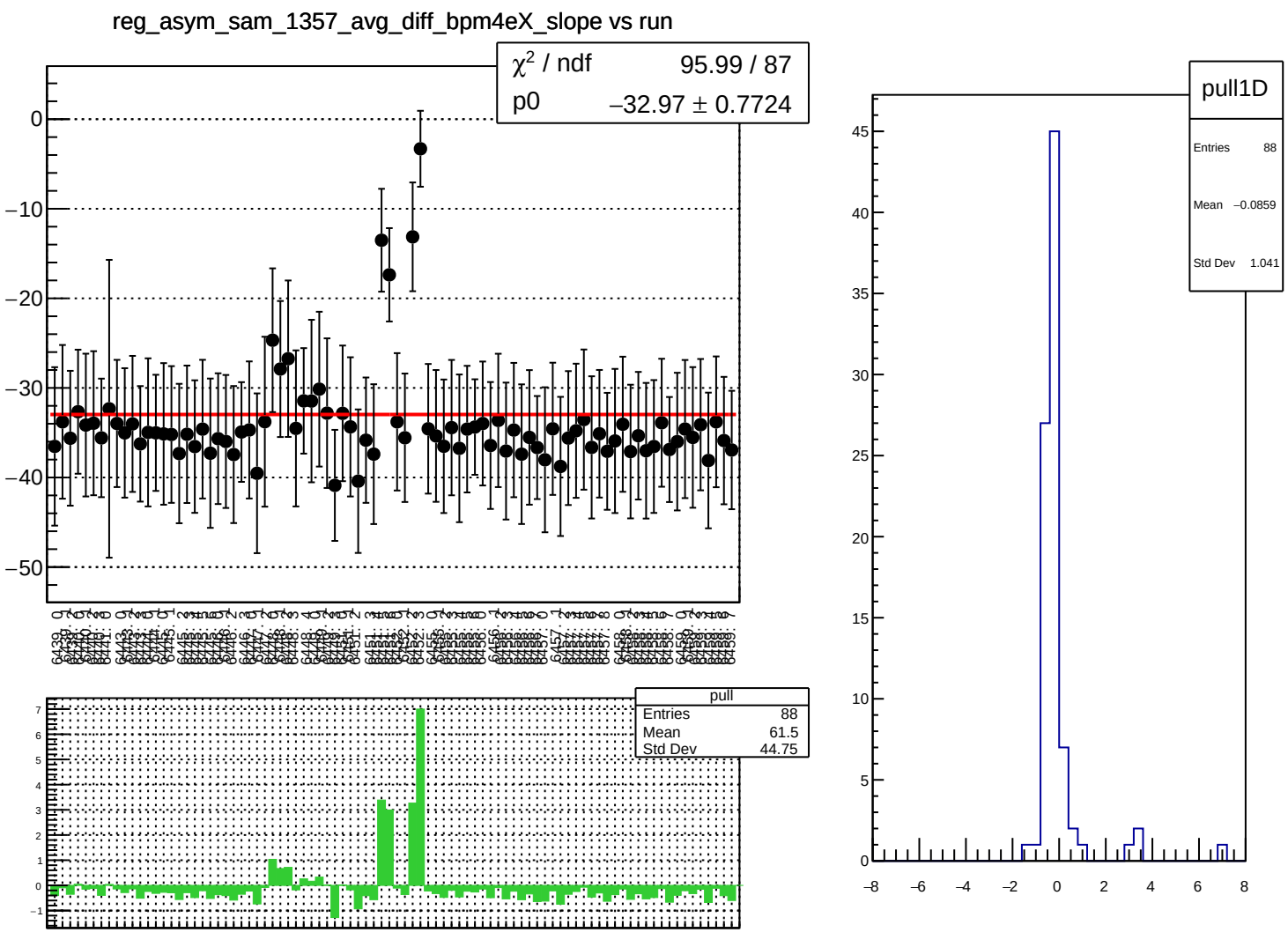

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.52 / 87
p0 −92.43 ± 0.541
pull
Entries 88
Mean 240.3
Std Dev 207.6
pull1D
Entries 88
Mean 0.03438
Std Dev 0.8622

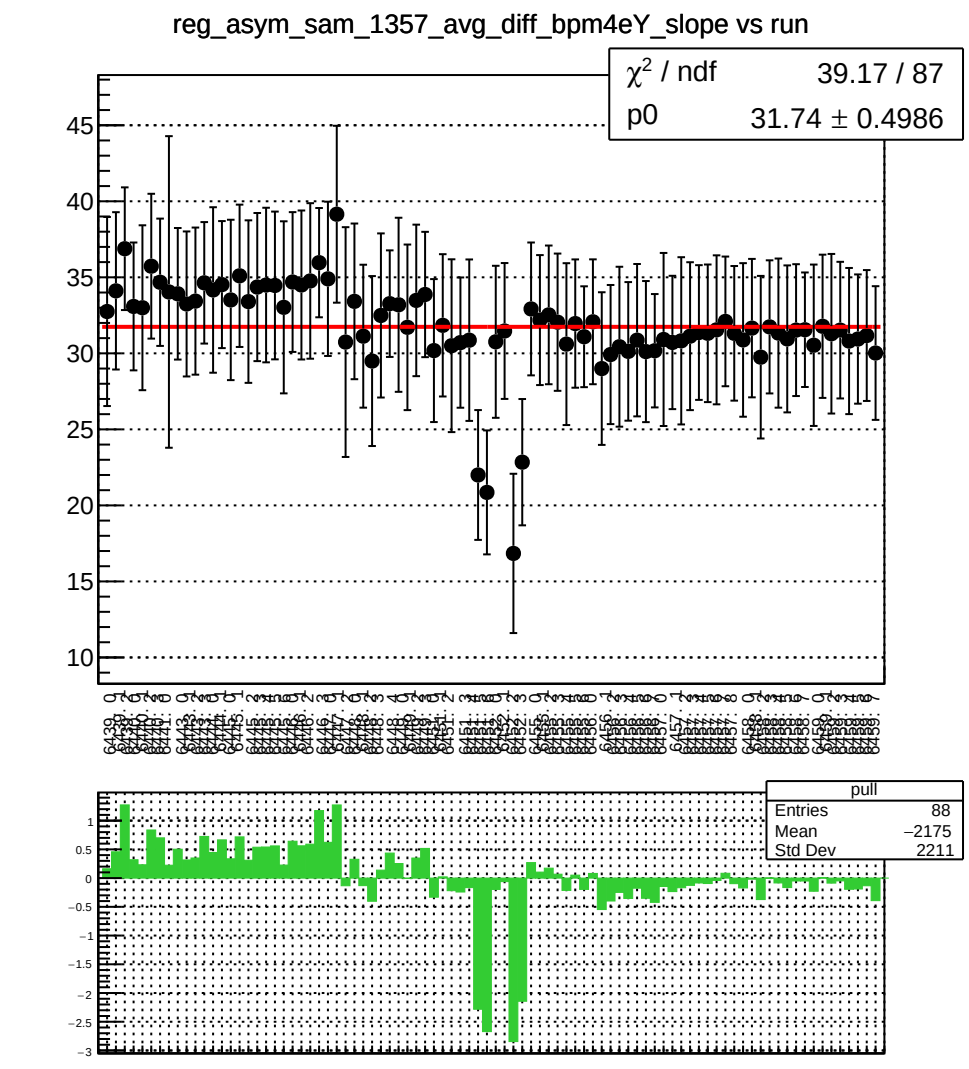

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 20.85 / 87
p0 0.1216 ± 0.0221
pull
Entries 88
Mean 118.2
Std Dev 59.93
pull1D
Entries 88
Mean −0.007548
Std Dev 0.4867

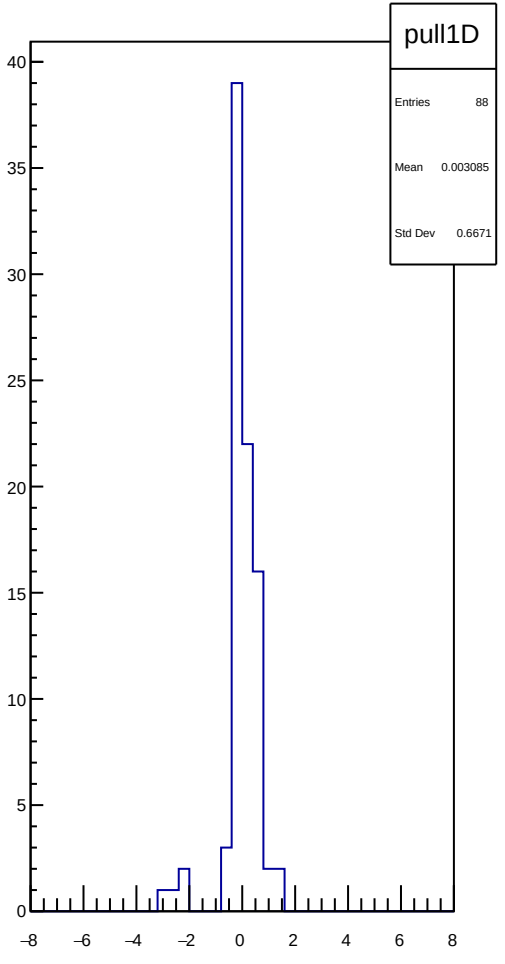

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 137.9 / 87
p0 −12.45 ± 0.7114
pull
Entries 88
Mean 64.72
Std Dev 41.93
pull1D
Entries 88
Mean 0.2087
Std Dev 0.7606

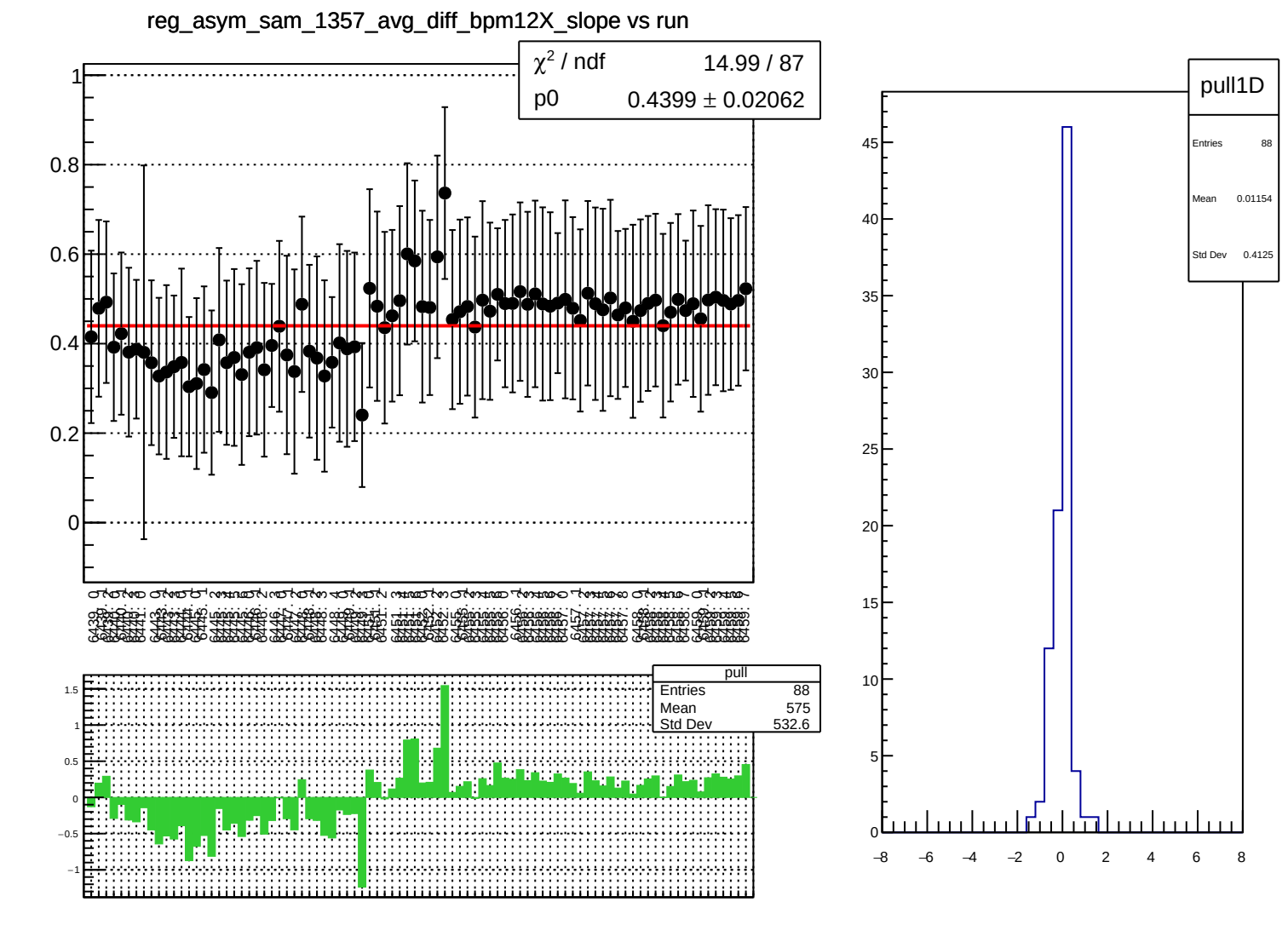

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.55 / 87
p0 1.08 ± 0.4959
pull
Entries 88
Mean 801.2
Std Dev 768.3

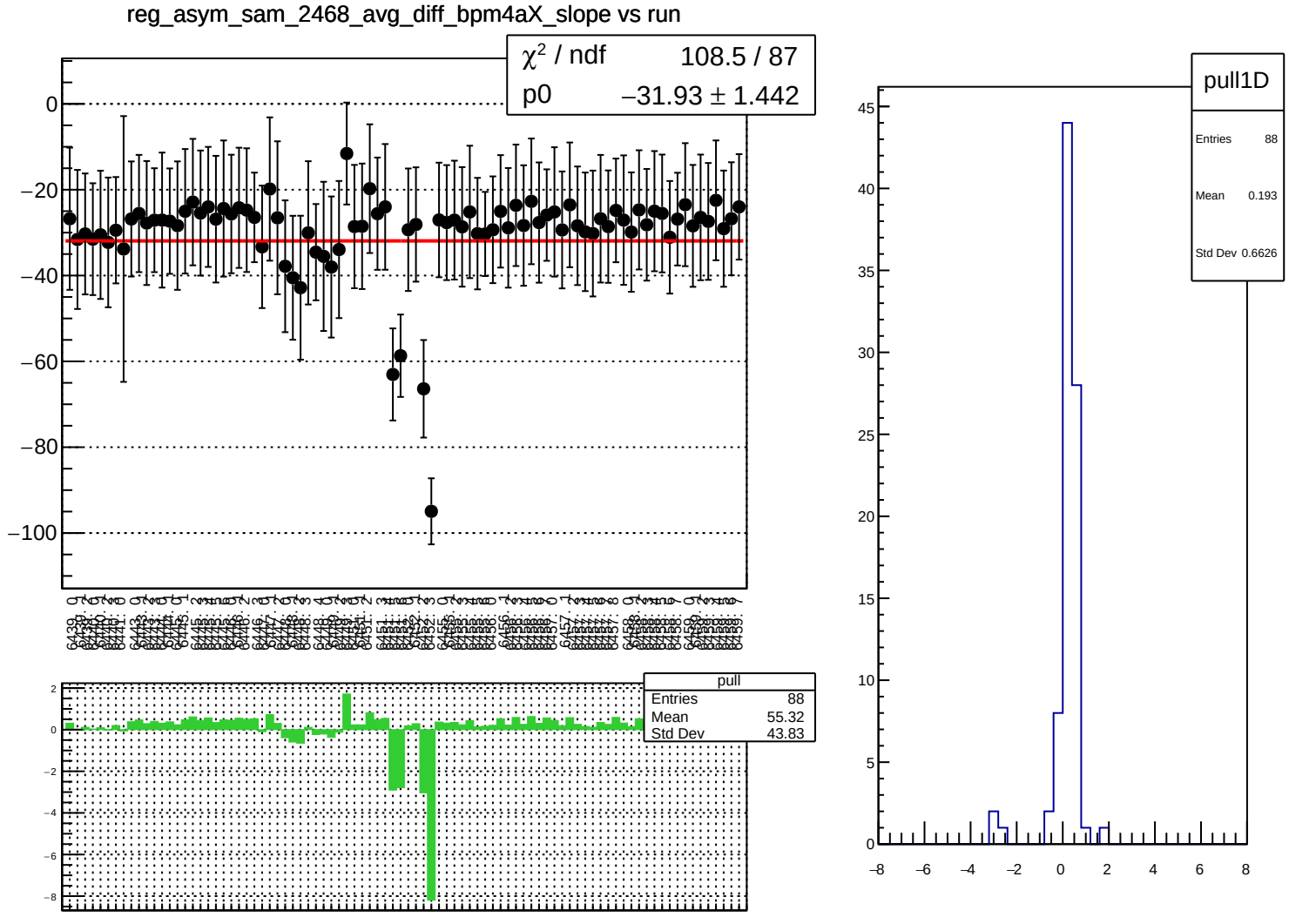

pull1D
Entries 88
Mean 0.00706
Std Dev 0.6871

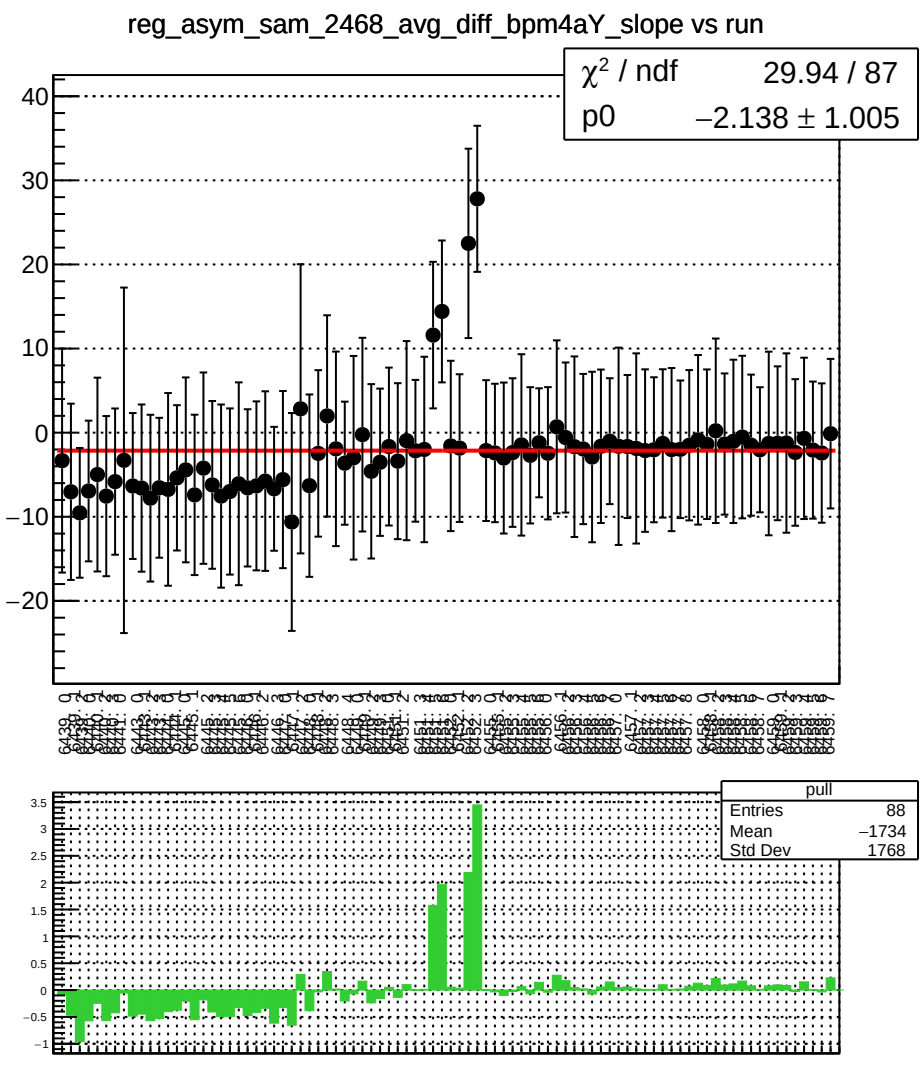

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 95.99 / 87
p0 −32.97 ± 0.7724
pull
Entries 88
Mean 61.5
Std Dev 44.75
pull1D
Entries 88
Mean −0.0859
Std Dev 1.041

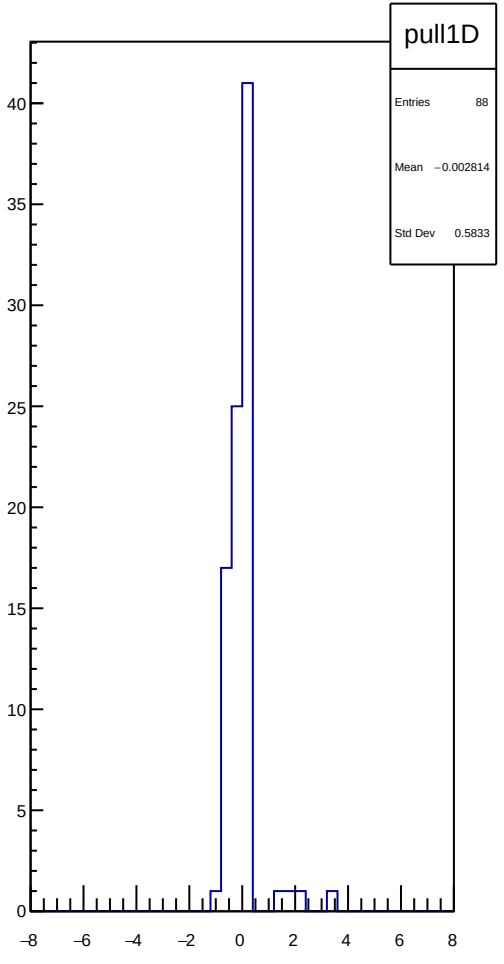

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.17 / 87
p0 31.74 ± 0.4986
pull
Entries 88
Mean −2175
Std Dev 2211

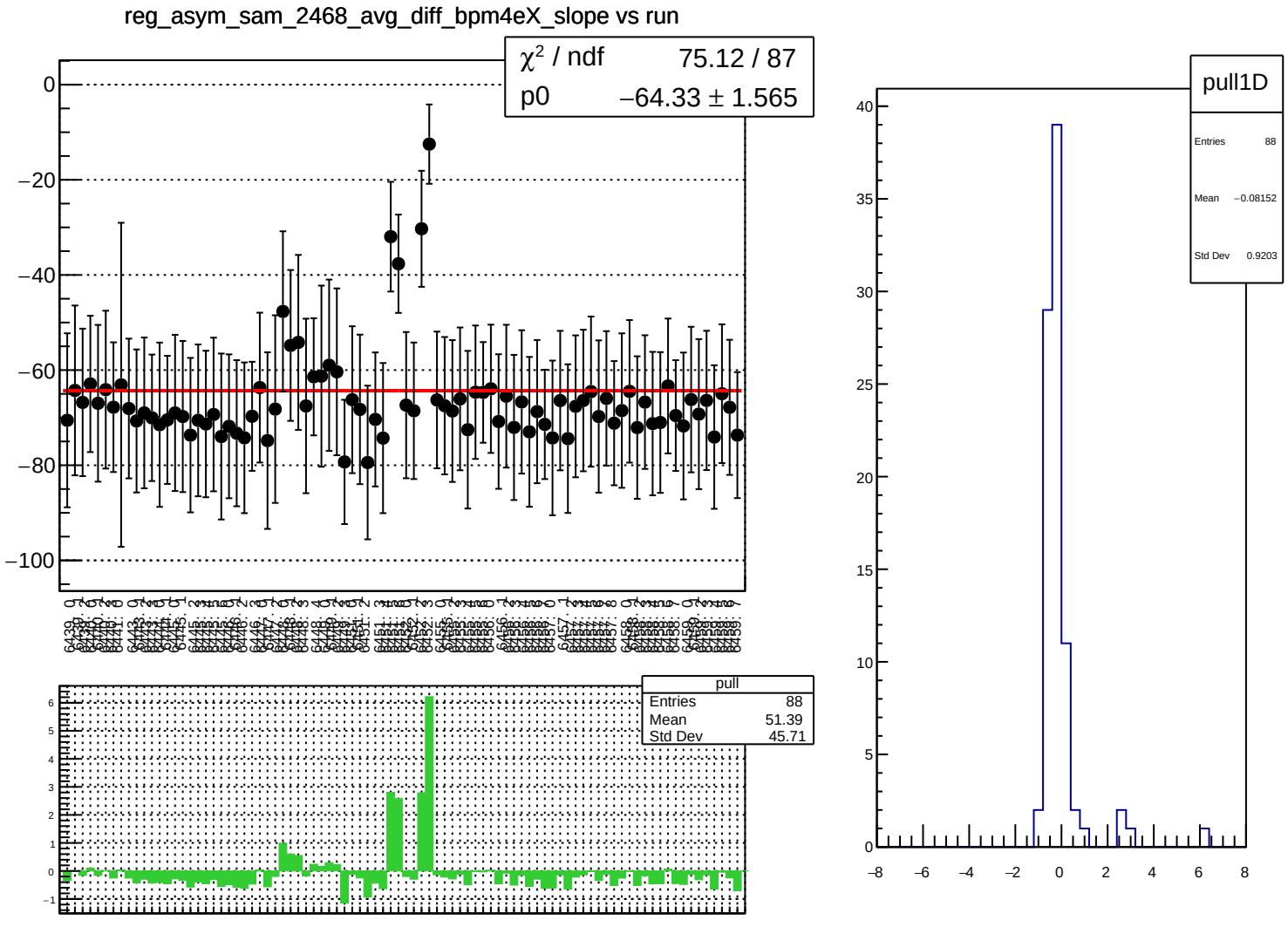

pull1D
Entries 88
Mean 0.003085
Std Dev 0.6671

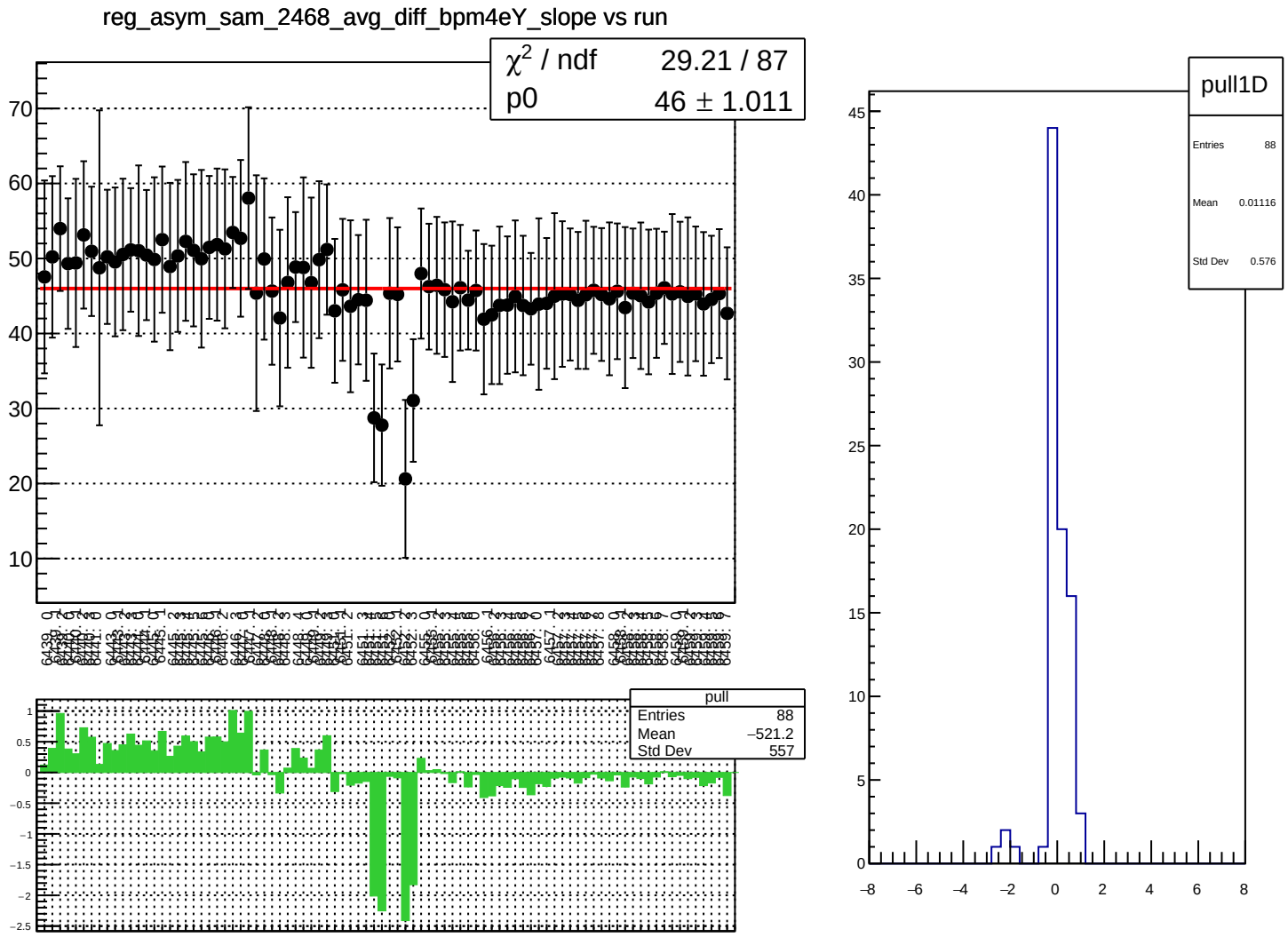

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 14.99 / 87
p0 0.4399 ± 0.02062
pull
Entries 88
Mean 575
Std Dev 532.6
pull1D
Entries 88
Mean 0.01154
Std Dev 0.4125

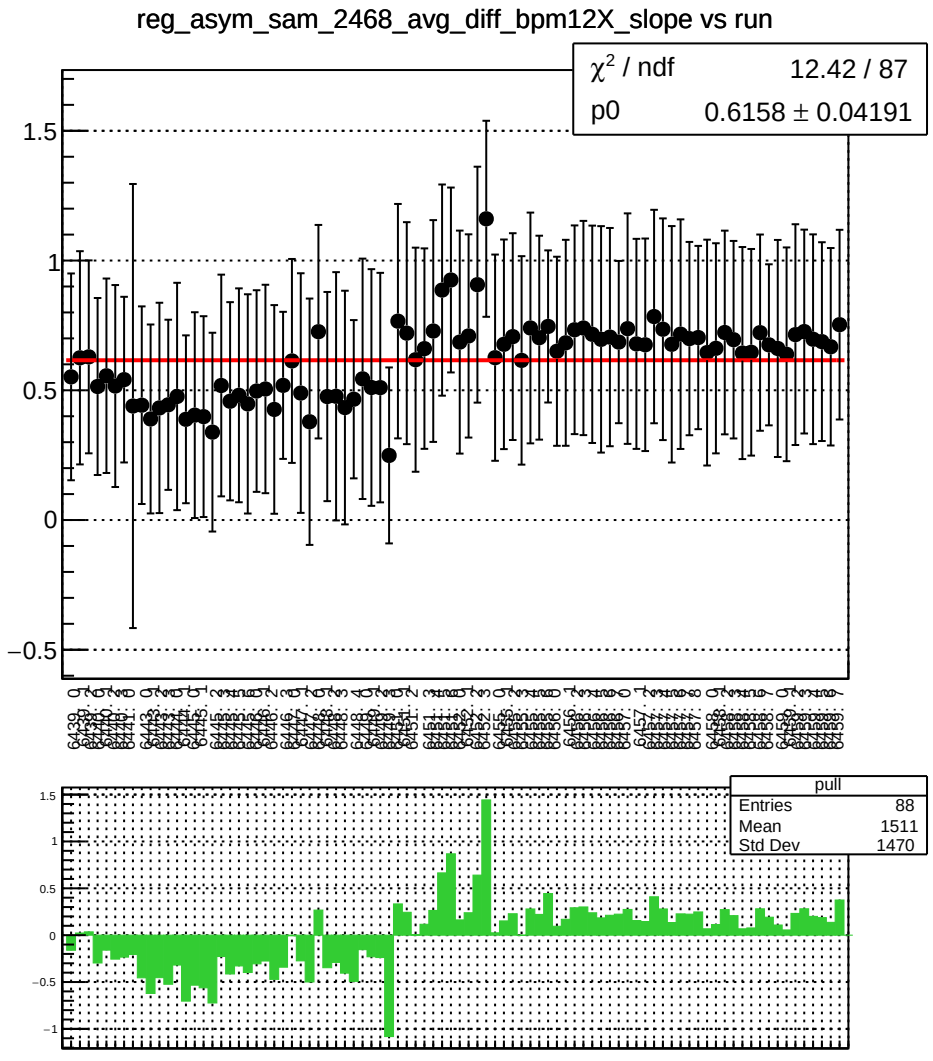

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 108.5 / 87
p0 −31.93 ± 1.442
pull
Entries 88
Mean 55.32
Std Dev 43.83
pull1D
Entries 88
Mean 0.193
Std Dev 0.6626

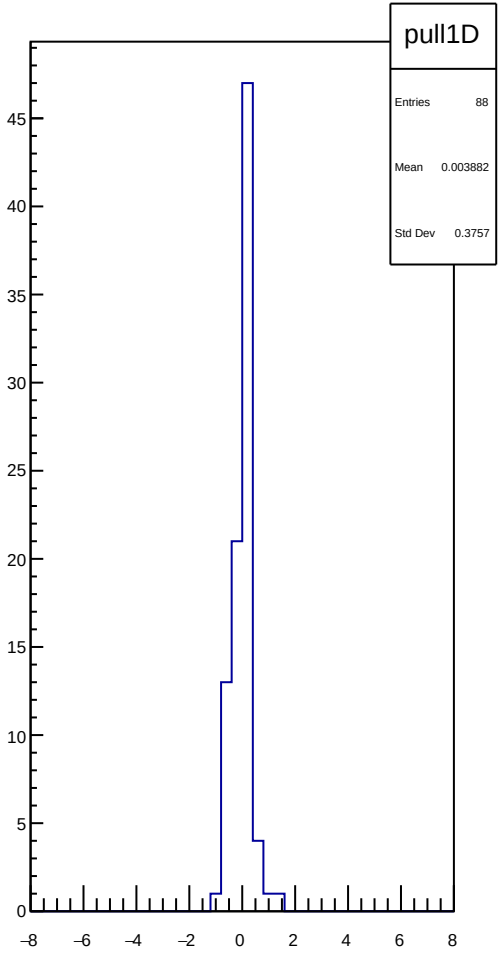

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.94 / 87
p0 −2.138 ± 1.005
pull
Entries 88
Mean −1734
Std Dev 1768

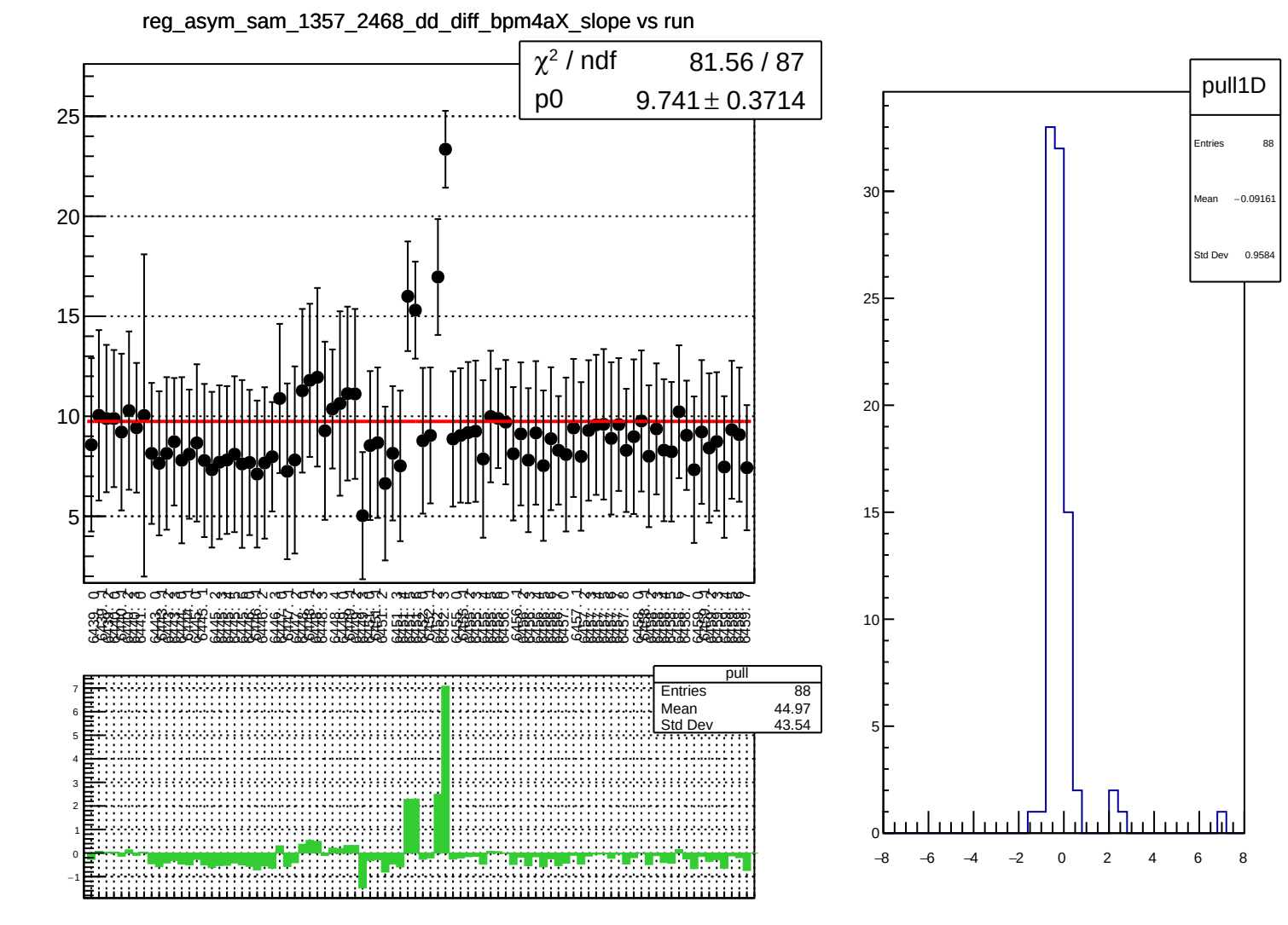

pull1D
Entries 88
Mean −0.002814
Std Dev 0.5833

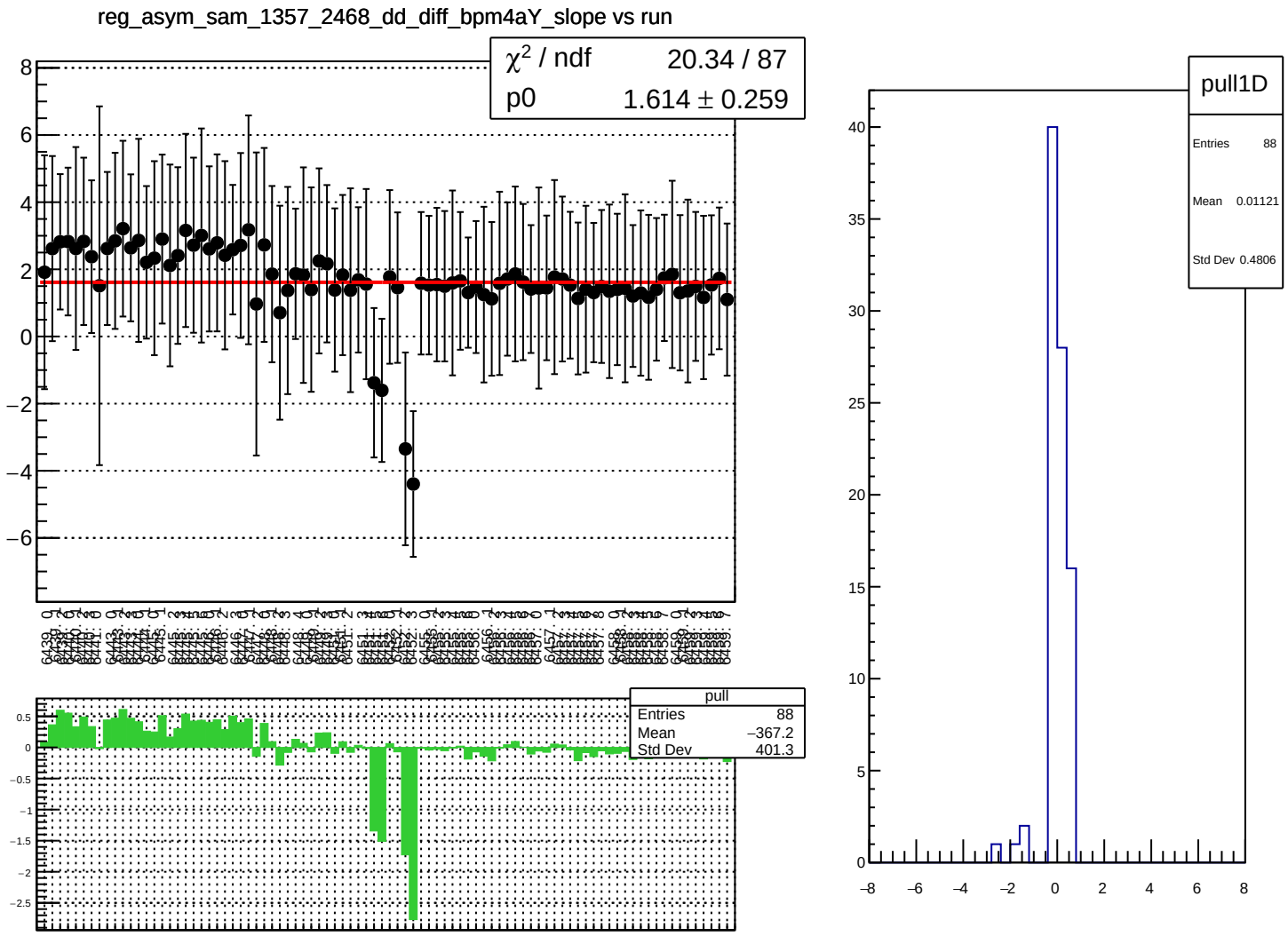

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 75.12 / 87
p0 −64.33 ± 1.565
pull
Entries 88
Mean 51.39
Std Dev 45.71
pull1D
Entries 88
Mean −0.08152
Std Dev 0.9203

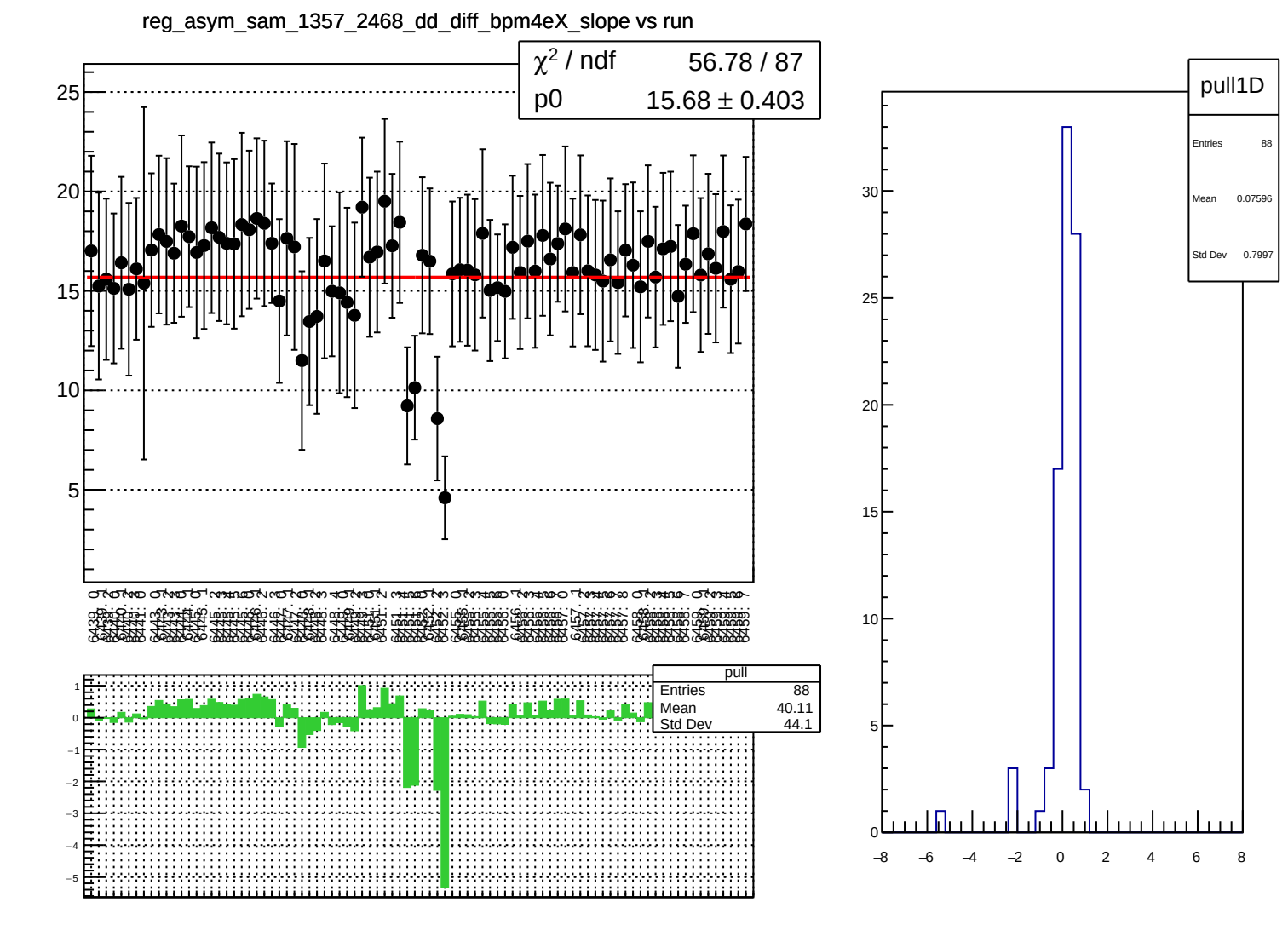

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.21 / 87
p0 46 ± 1.011
pull
Entries 88
Mean −521.2
Std Dev 557
pull1D
Entries 88
Mean 0.01116
Std Dev 0.576

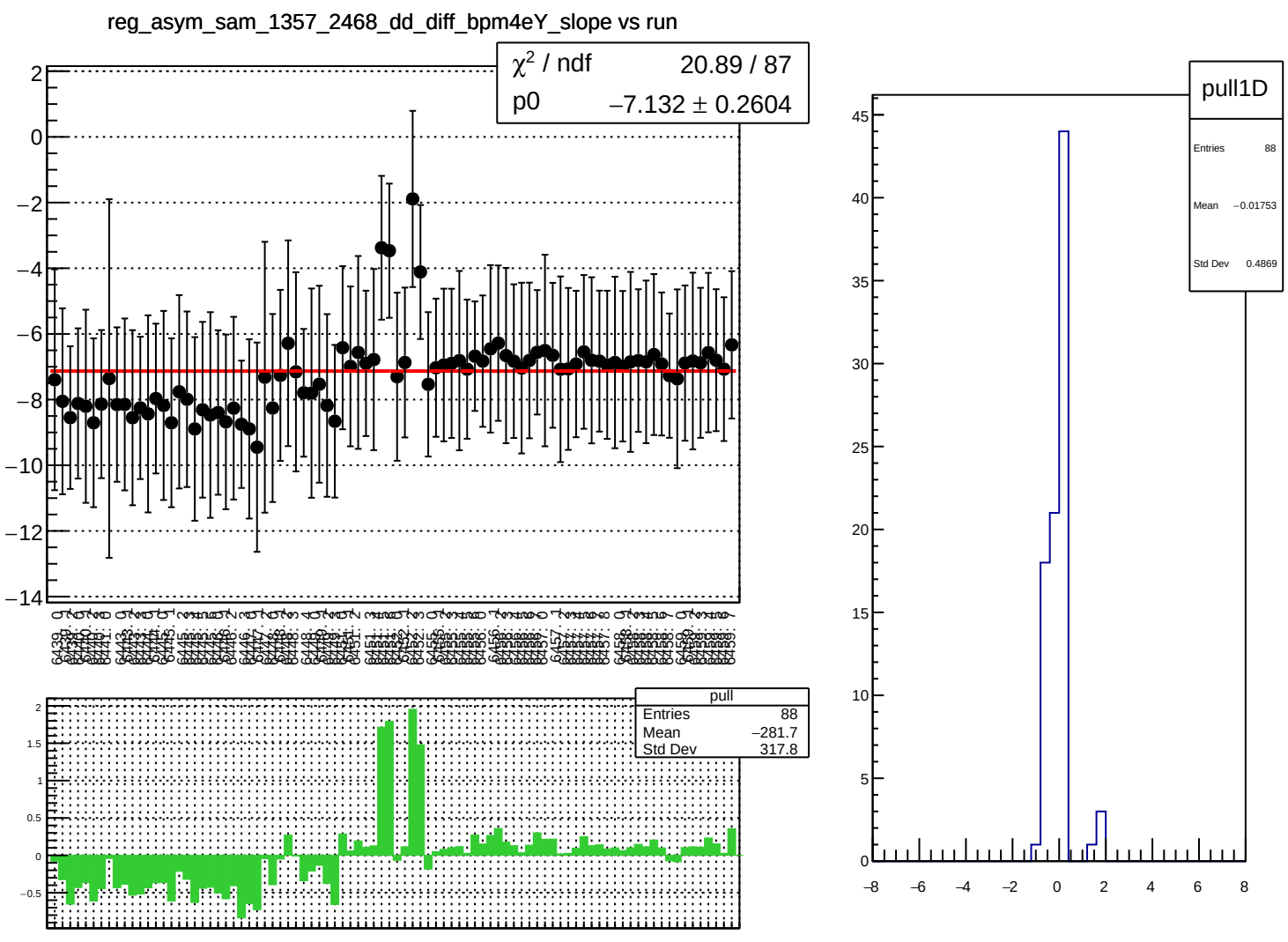

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 12.42 / 87
p0 0.6158 ± 0.04191
pull
Entries 88
Mean 1511
Std Dev 1470

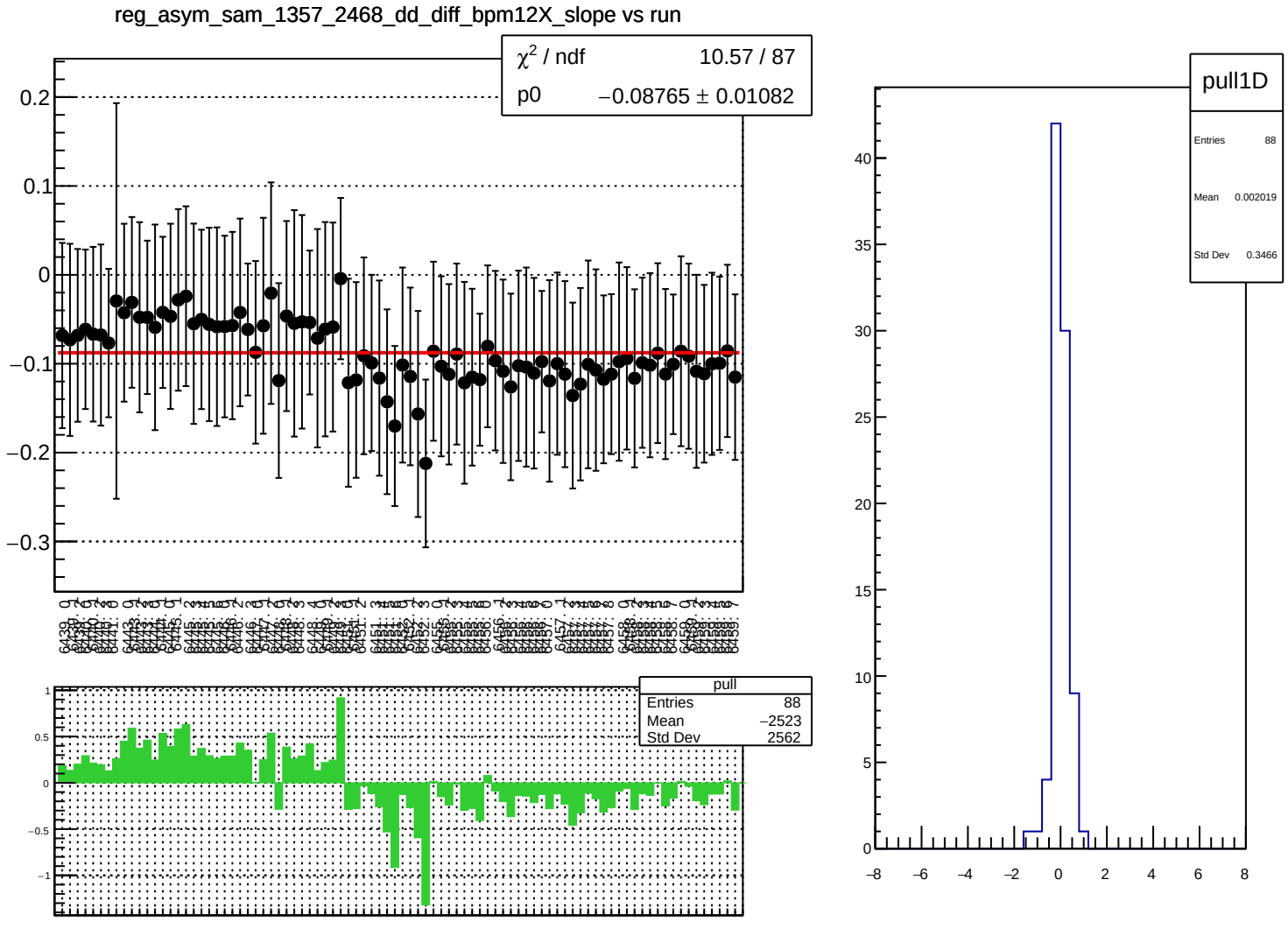

pull1D
Entries 88
Mean 0.003882
Std Dev 0.3757

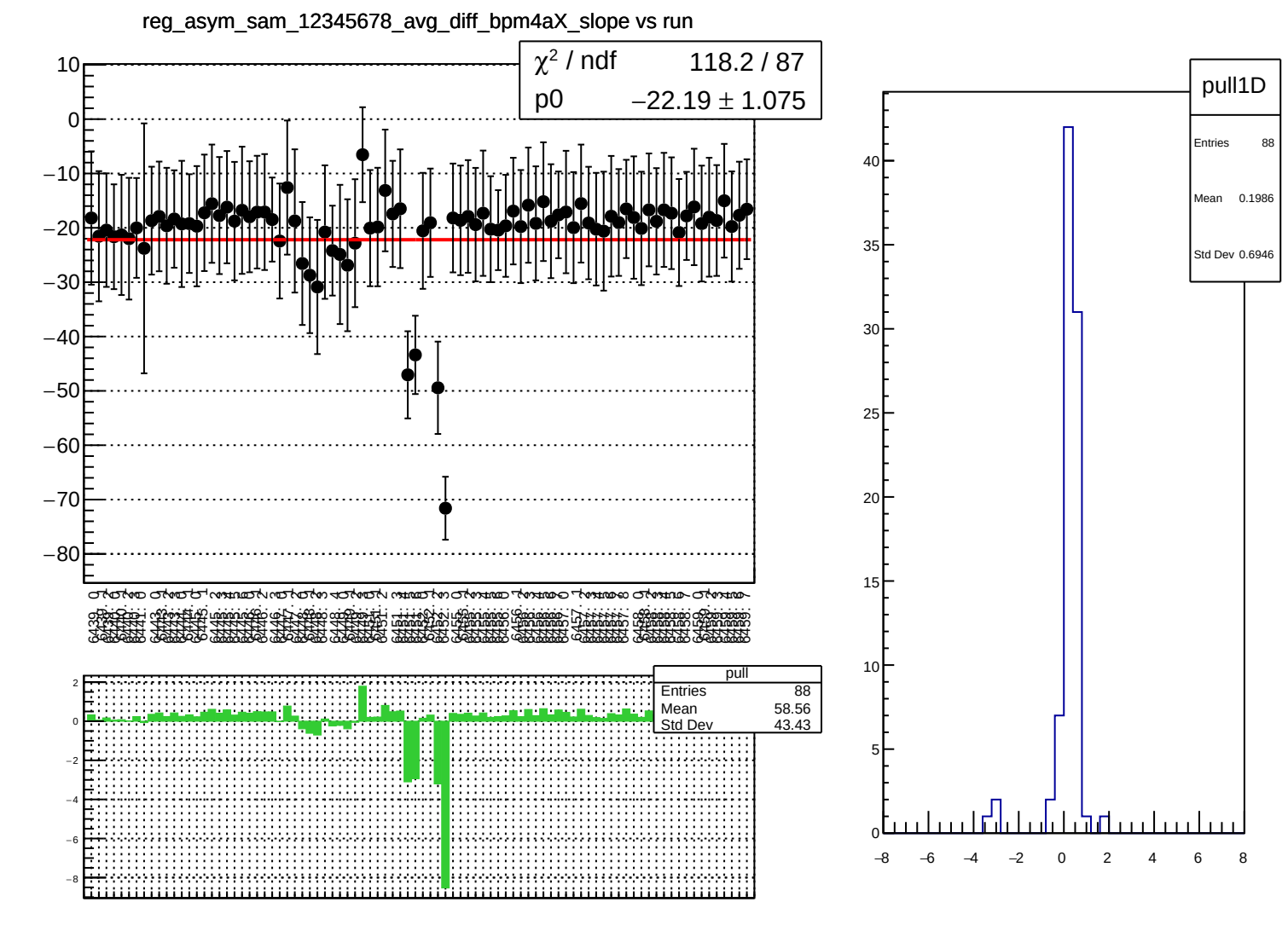

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 81.56 / 87
p0 9.741 ± 0.3714
pull
Entries 88
Mean 44.97
Std Dev 43.54
pull1D
Entries 88
Mean −0.09161
Std Dev 0.9584

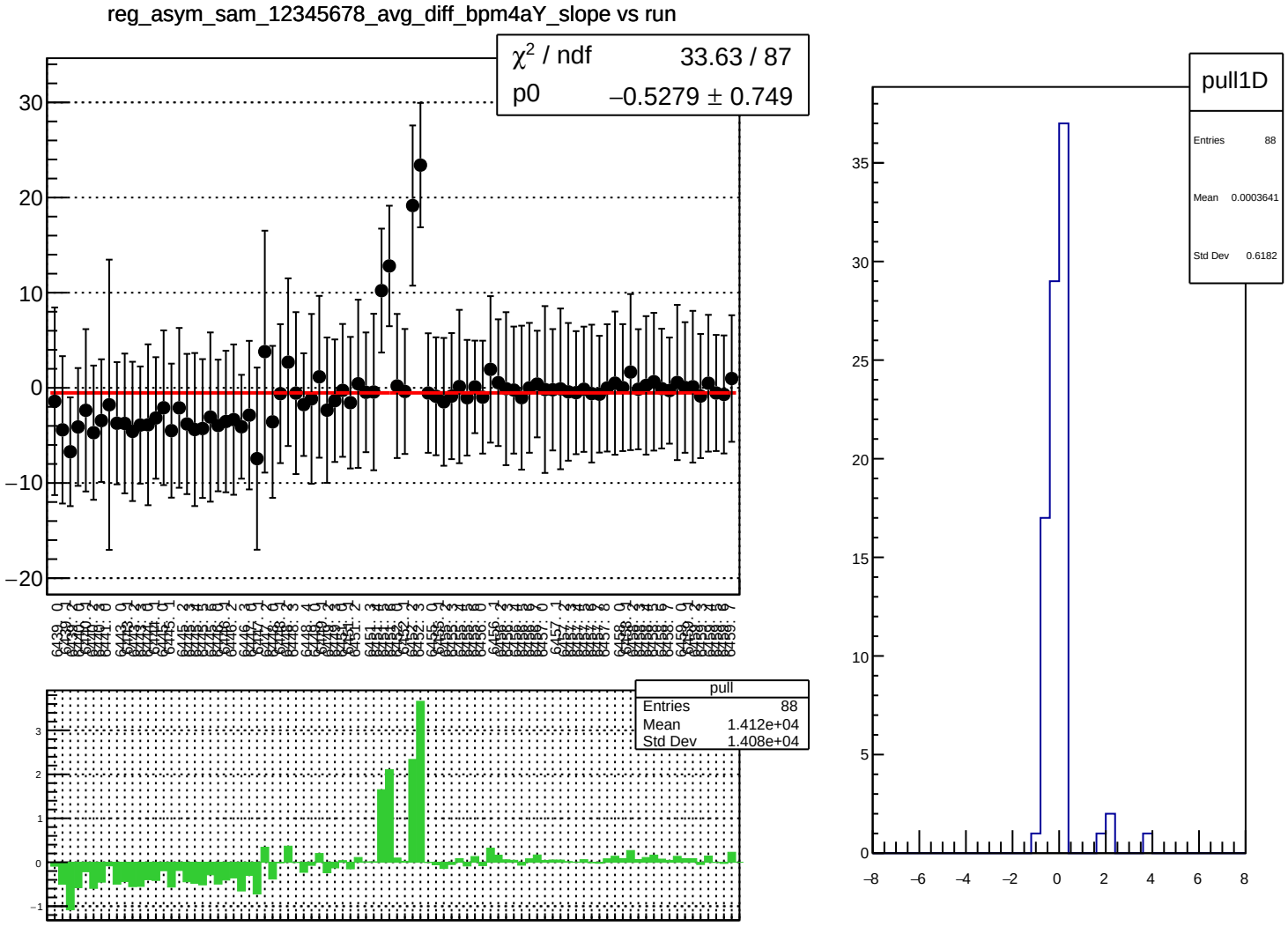

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.34 / 87
p0 1.614 ± 0.259
pull
Entries 88
Mean −367.2
Std Dev 401.3
pull1D
Entries 88
Mean 0.01121
Std Dev 0.4806

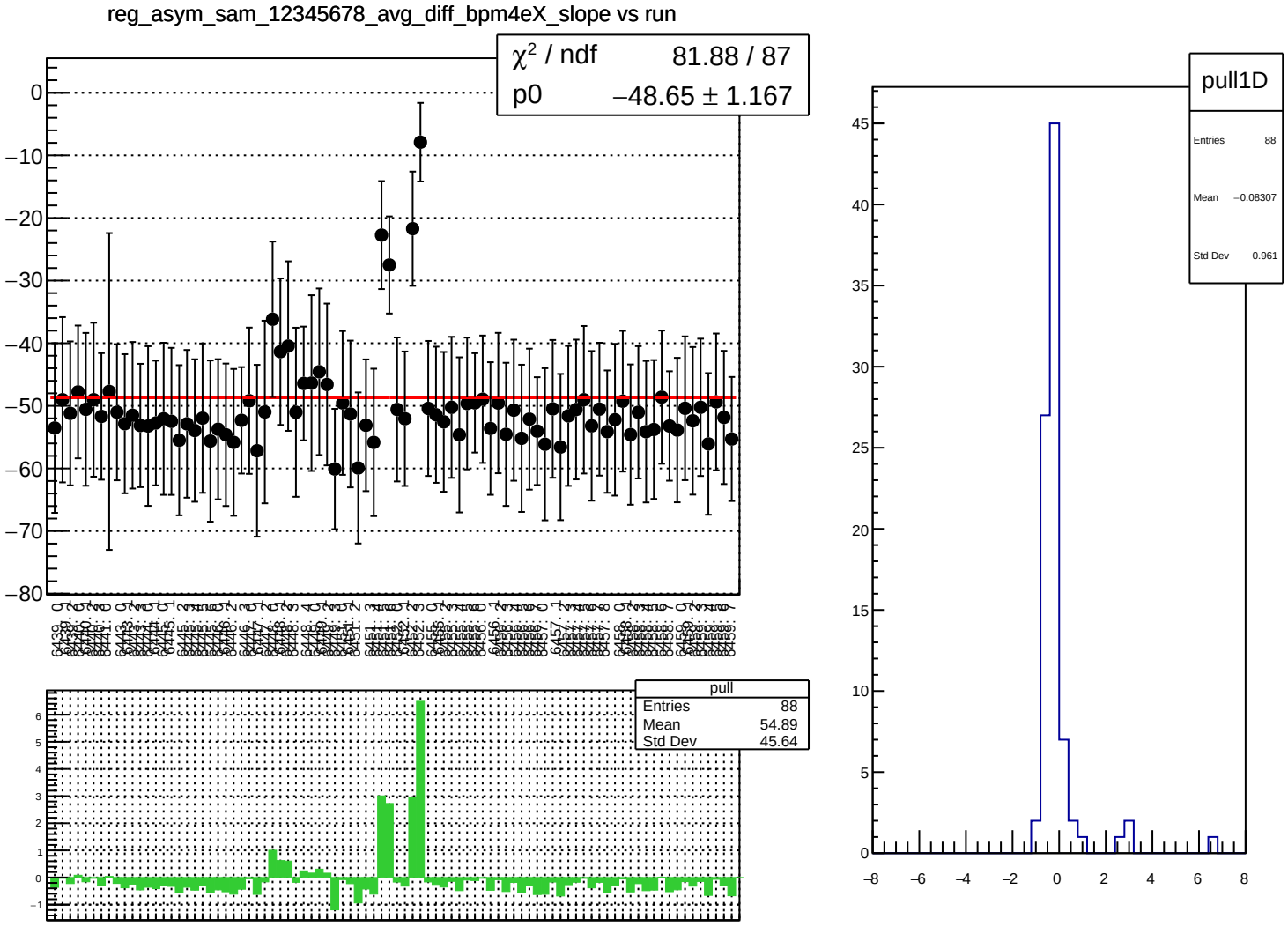

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 56.78 / 87
p0 15.68 ± 0.403
pull
Entries 88
Mean 40.11
Std Dev 44.1
pull1D
Entries 88
Mean 0.07596
Std Dev 0.7997

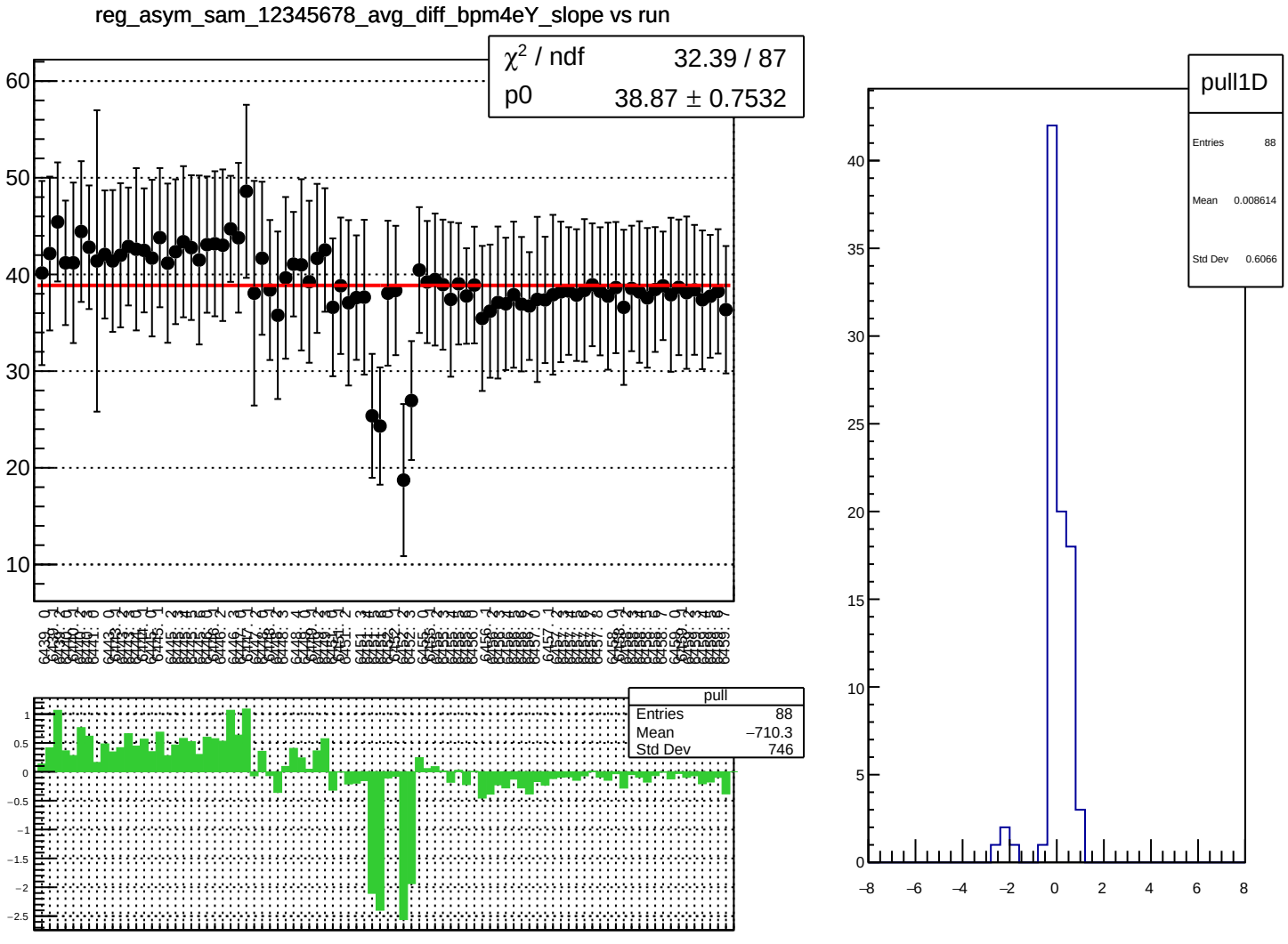

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.89 / 87
p0 −7.132 ± 0.2604
pull
Entries 88
Mean −281.7
Std Dev 317.8
pull1D
Entries 88
Mean −0.01753
Std Dev 0.4869

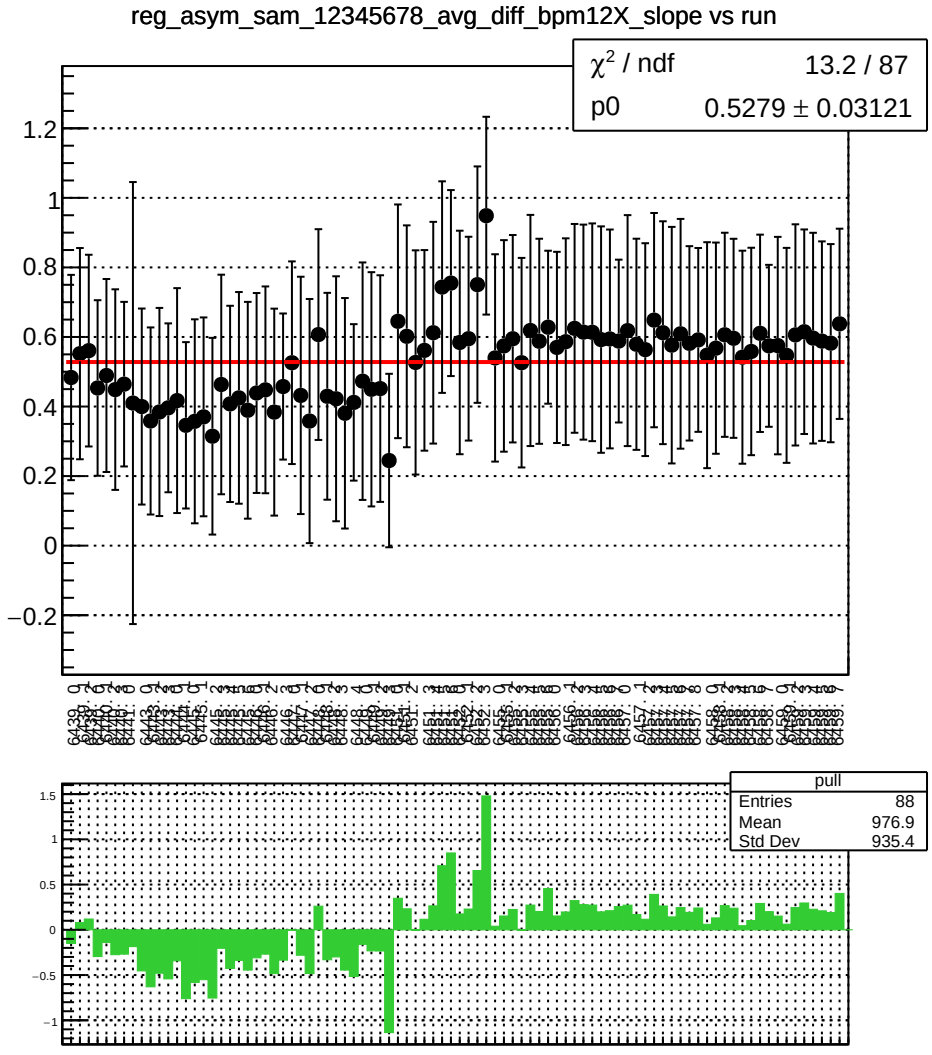

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 10.57 / 87
p0 −0.08765 ± 0.01082
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 88
Mean −2523
Std Dev 2562
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.002019
Std Dev 0.3466
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

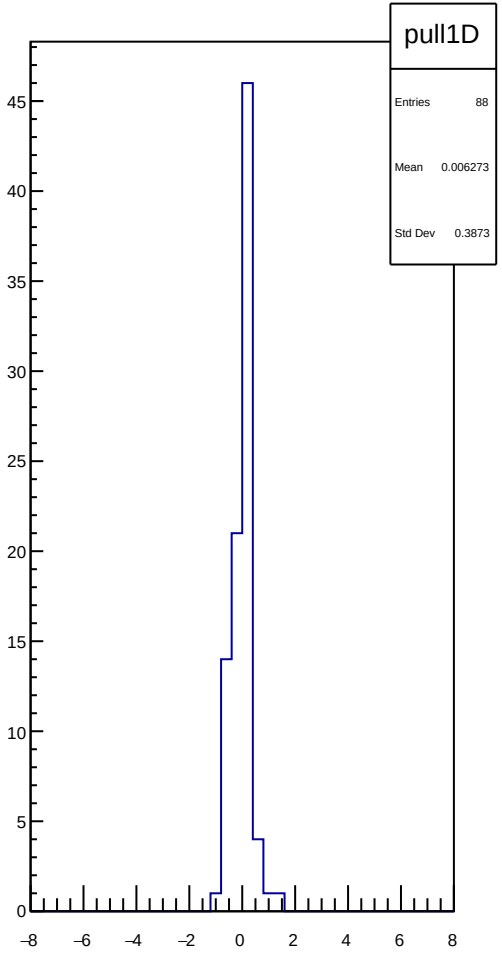

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 118.2 / 87
p0 −22.19 ± 1.075
pull
Entries 88
Mean 58.56
Std Dev 43.43
pull1D
Entries 88
Mean 0.1986
Std Dev 0.6946

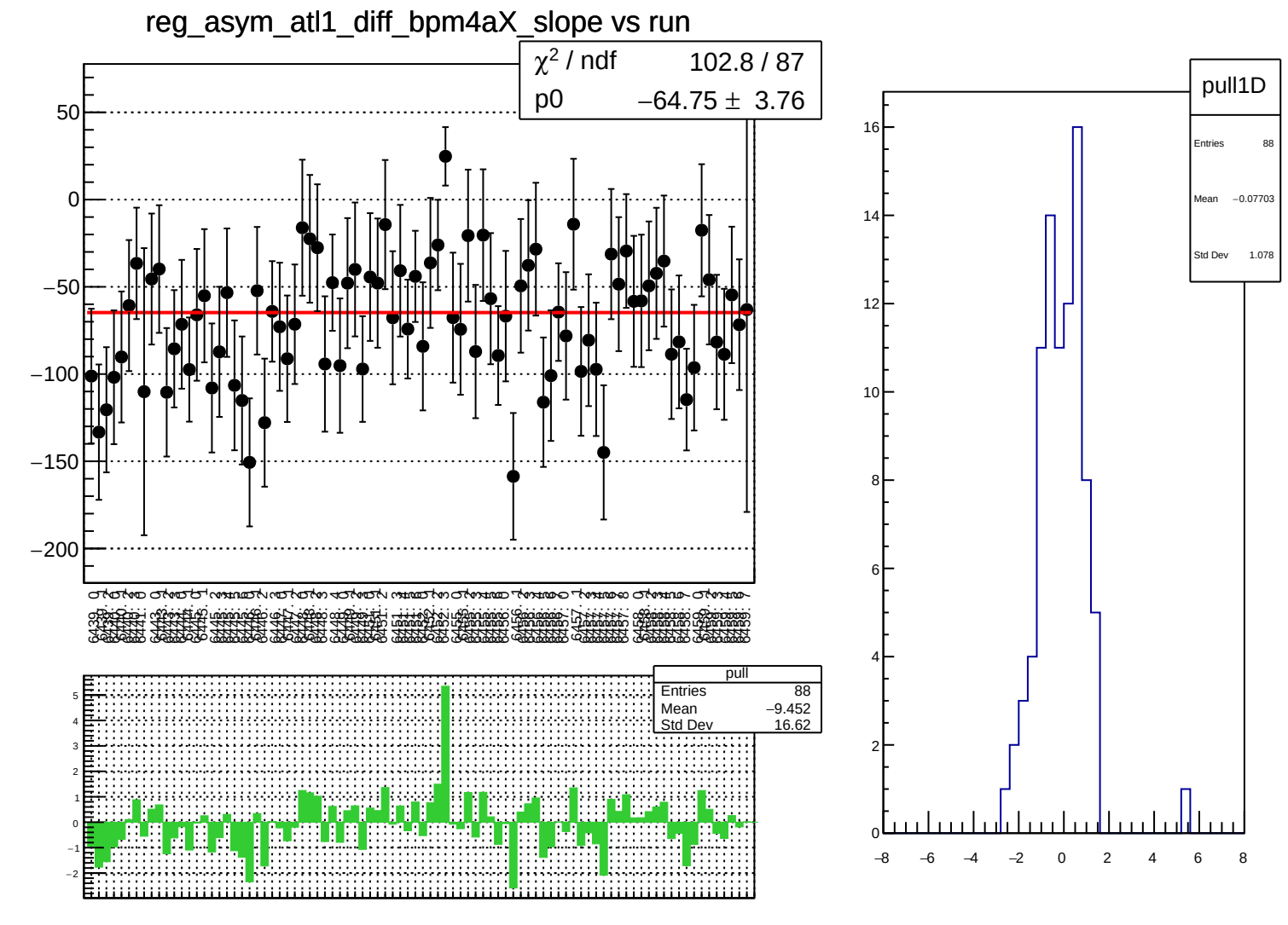

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.63 / 87
p0 −0.5279 ± 0.749
pull
Entries 88
Mean 1.412e+04
Std Dev 1.408e+04
pull1D
Entries 88
Mean 0.0003641
Std Dev 0.6182

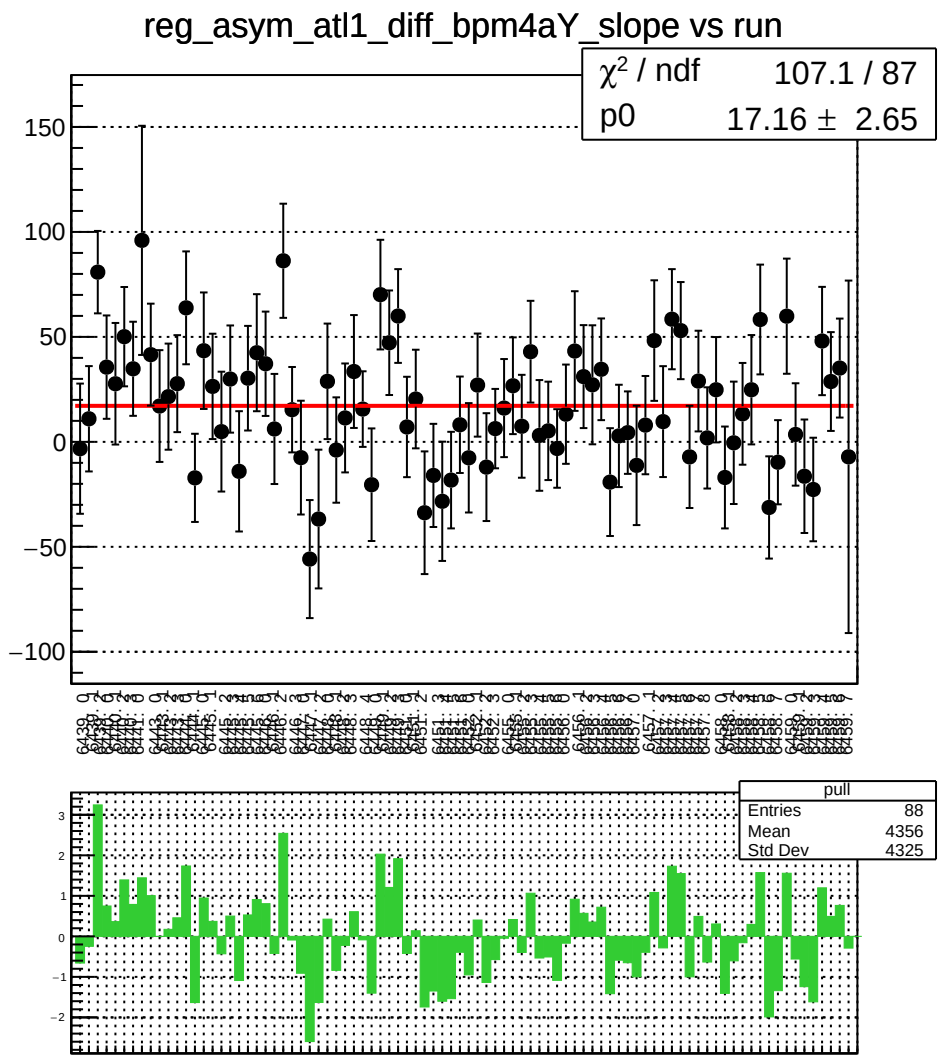

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 81.88 / 87
p0 −48.65 ± 1.167
pull
Entries 88
Mean 54.89
Std Dev 45.64
pull1D
Entries 88
Mean −0.08307
Std Dev 0.961

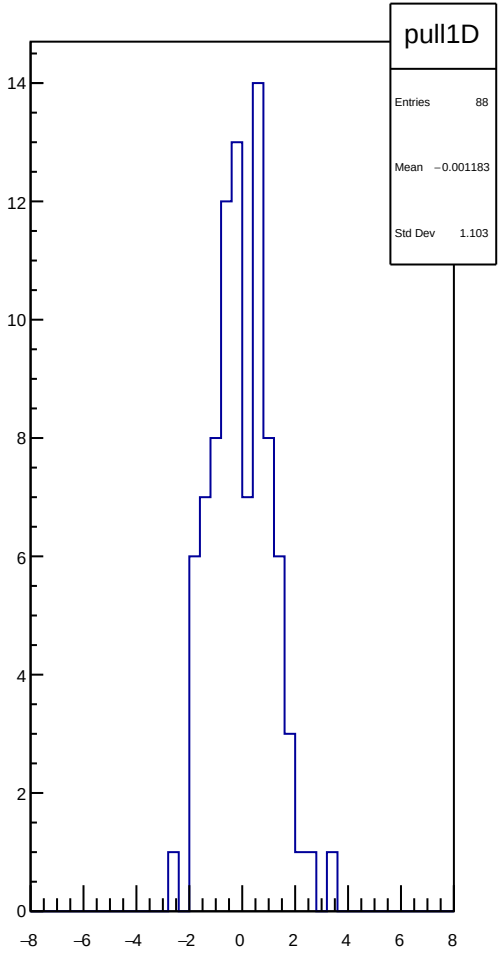

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.39 / 87
p0 38.87 ± 0.7532
pull
Entries 88
Mean −710.3
Std Dev 746
pull1D
Entries 88
Mean 0.008614
Std Dev 0.6066

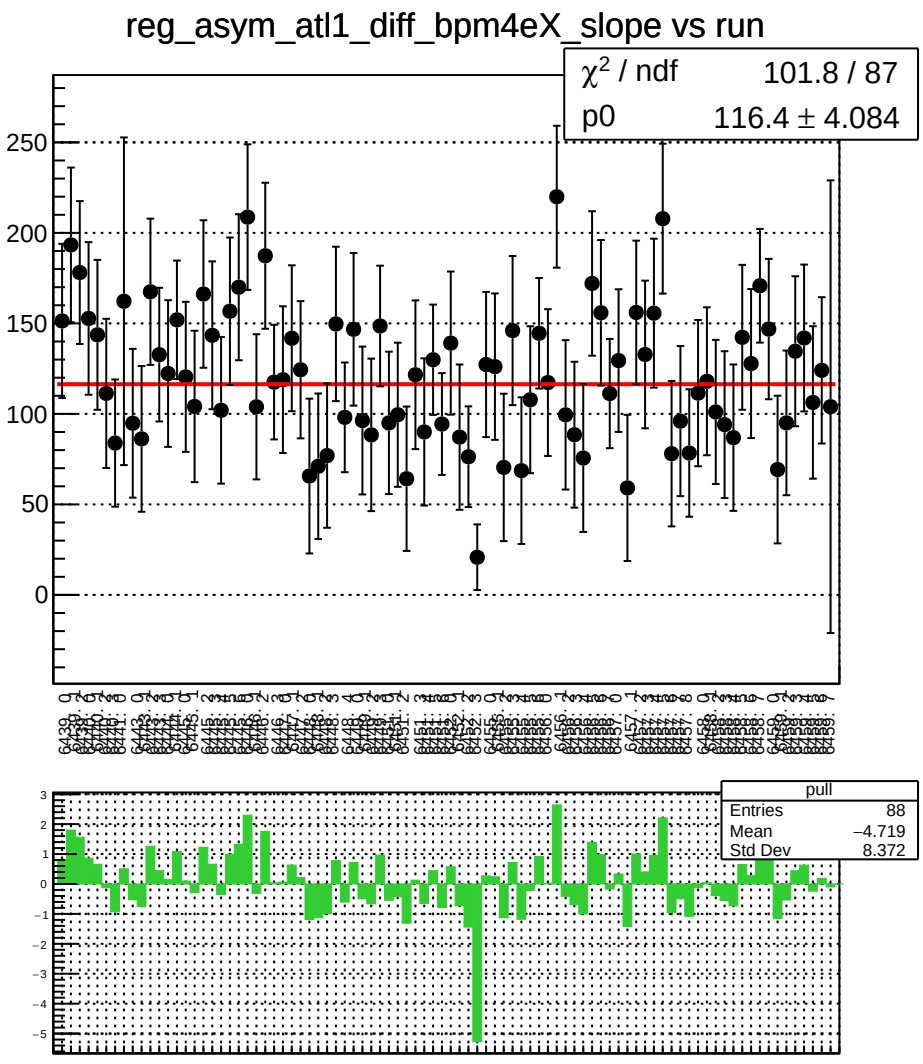

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 13.2 / 87
p0 0.5279 ± 0.03121
pull
Entries 88
Mean 976.9
Std Dev 935.4

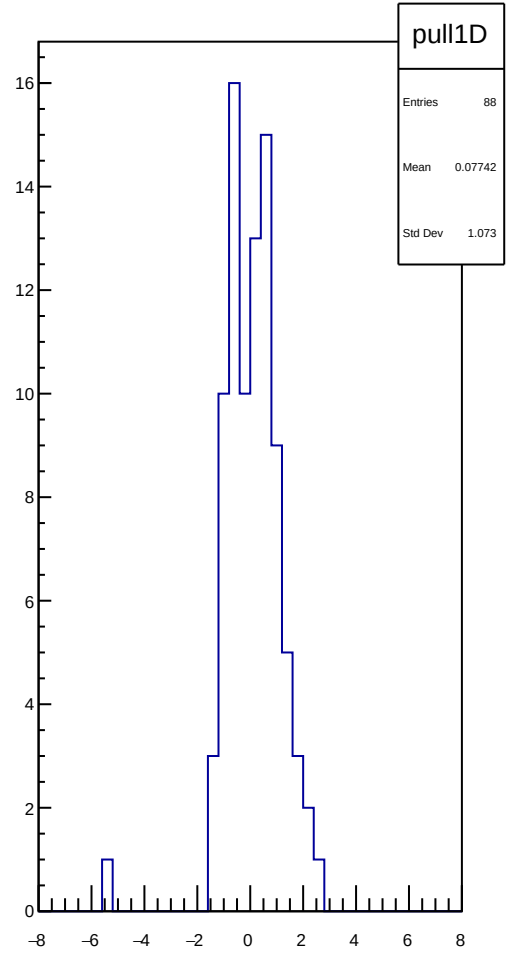

pull1D
Entries 88
Mean 0.006273
Std Dev 0.3873

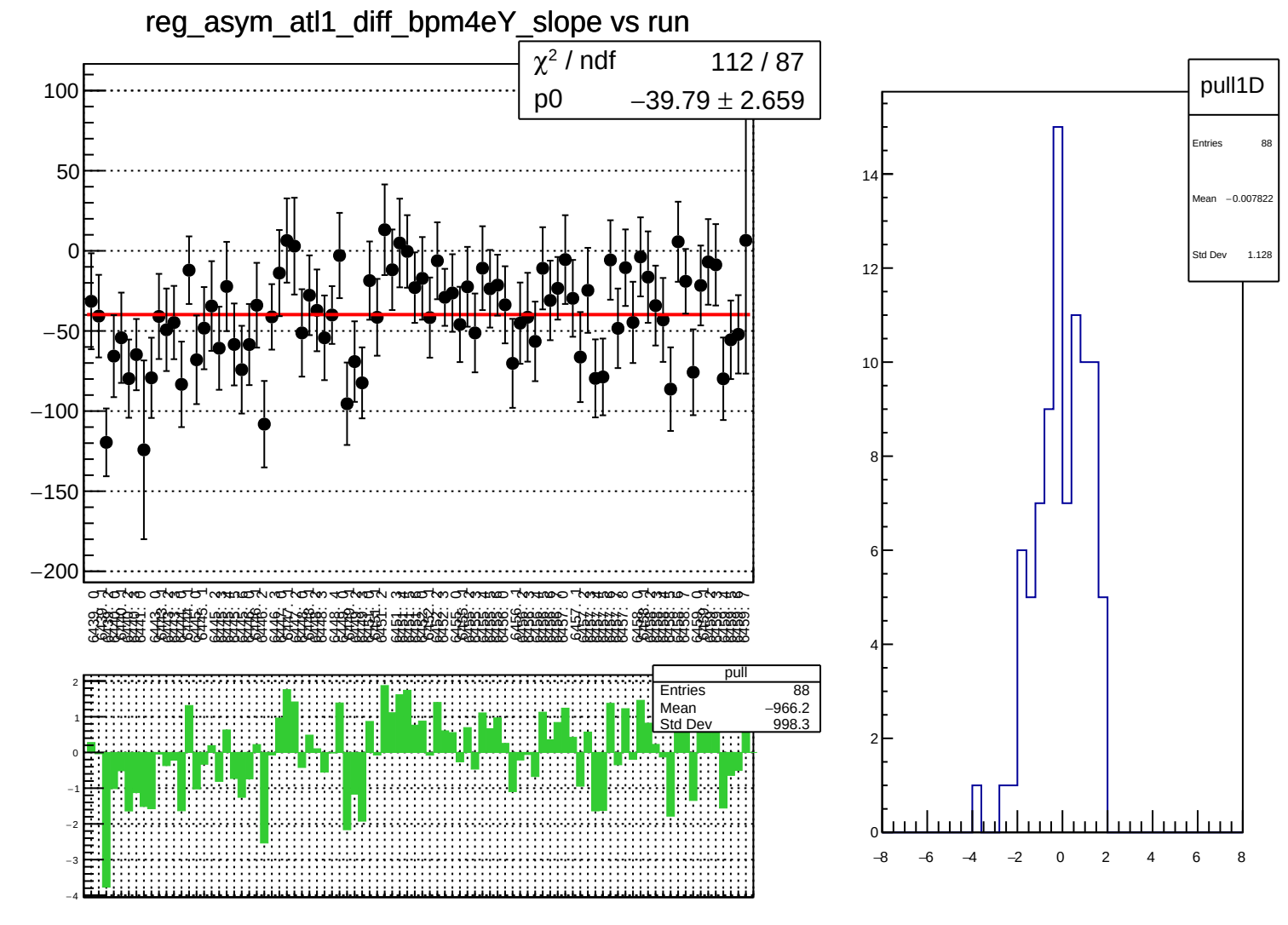

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 102.8 / 87
p0 −64.75 ± 3.76
pull
Entries 88
Mean −9.452
Std Dev 16.62
pull1D
Entries 88
Mean −0.07703
Std Dev 1.078

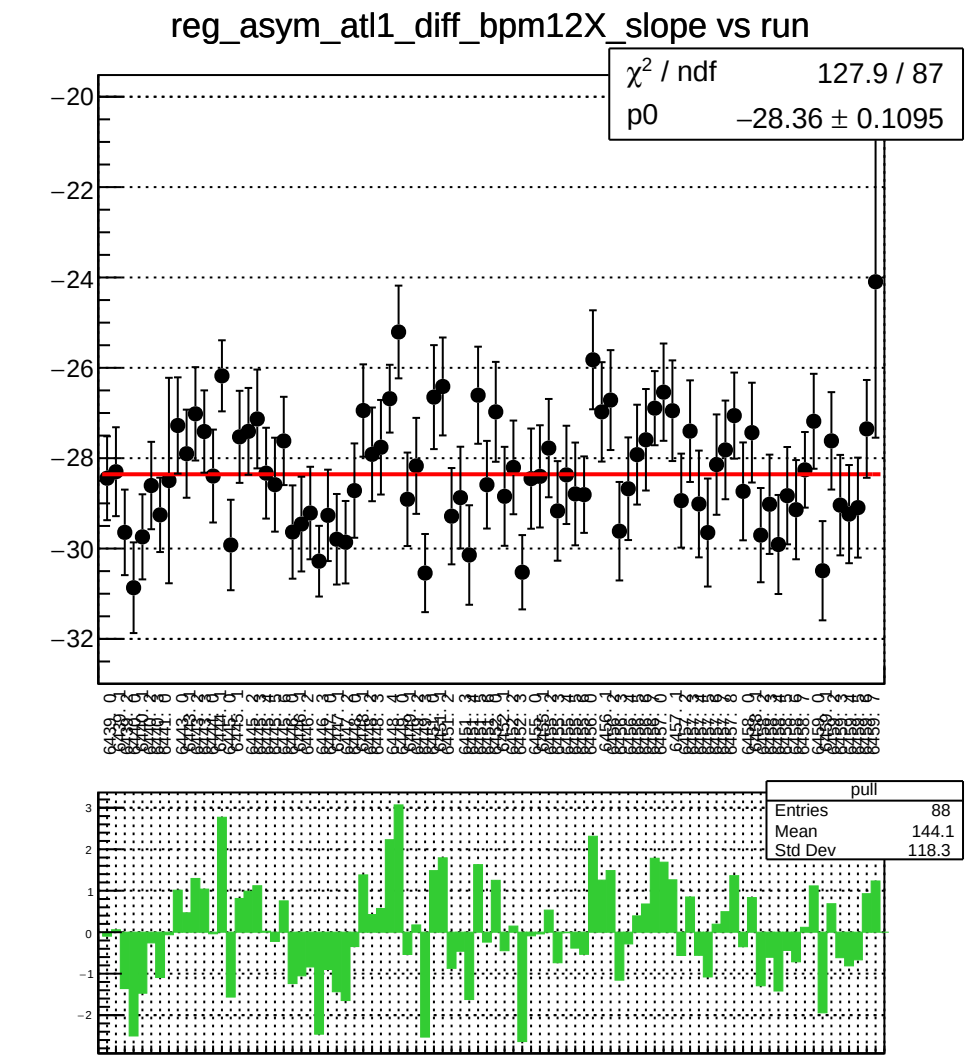

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 107.1 / 87
p0 17.16 ± 2.65
150
100
50
0
−50
−100
pull
Entries 88
Mean 4356
Std Dev 4325
3
2
1
0
−1
−2

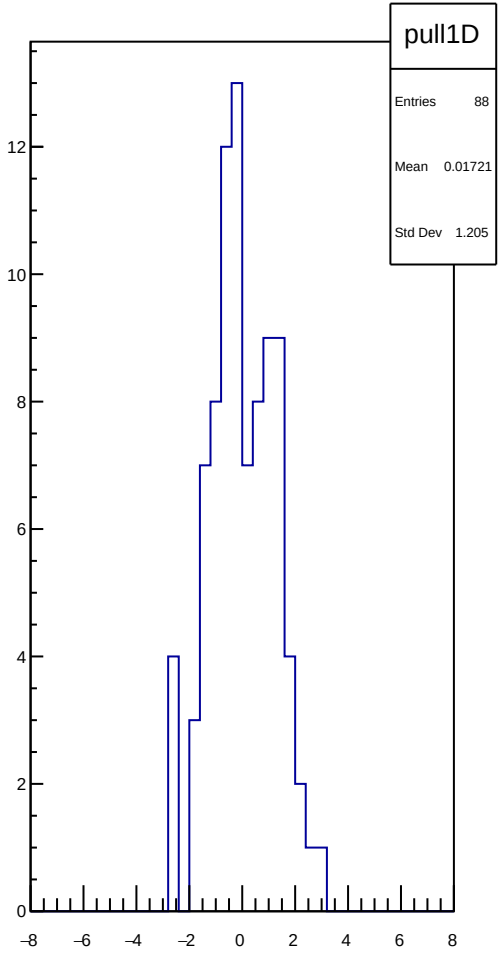

pull1D
Entries 88
Mean −0.001183
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

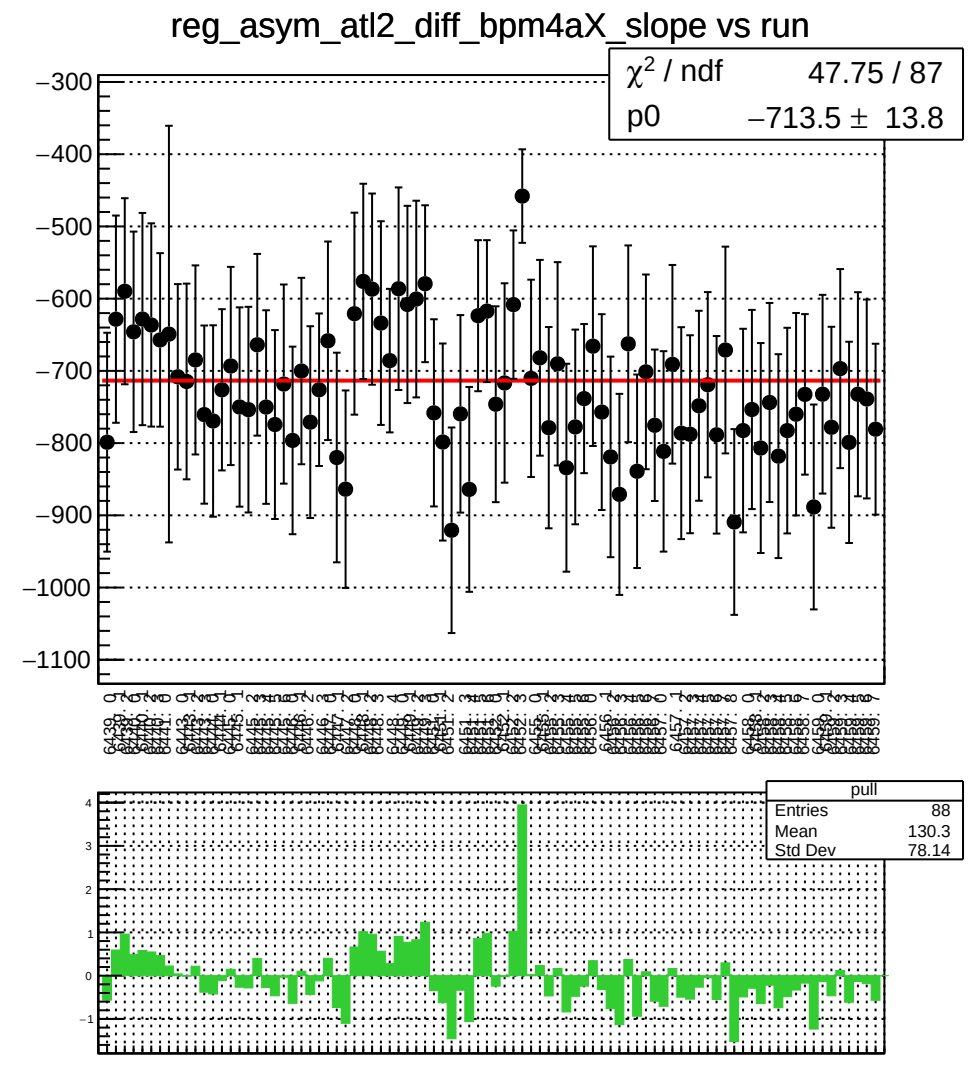

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 101.8 / 87
p0 116.4 ± 4.084
250
200
150
100
50
0
pull
Entries 88
Mean −4.719
Std Dev 8.372
3
2
1
0
−1
−2
−3
−4
−5

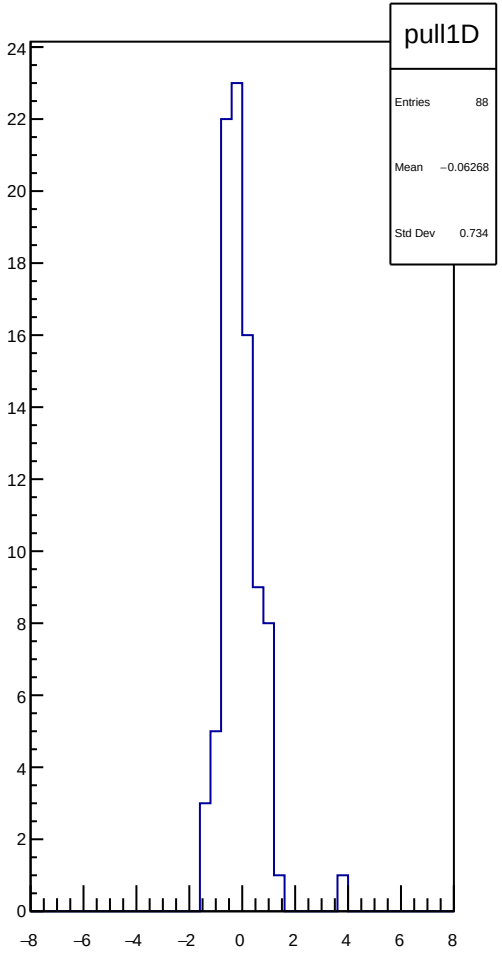

pull1D
Entries 88
Mean 0.07742
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

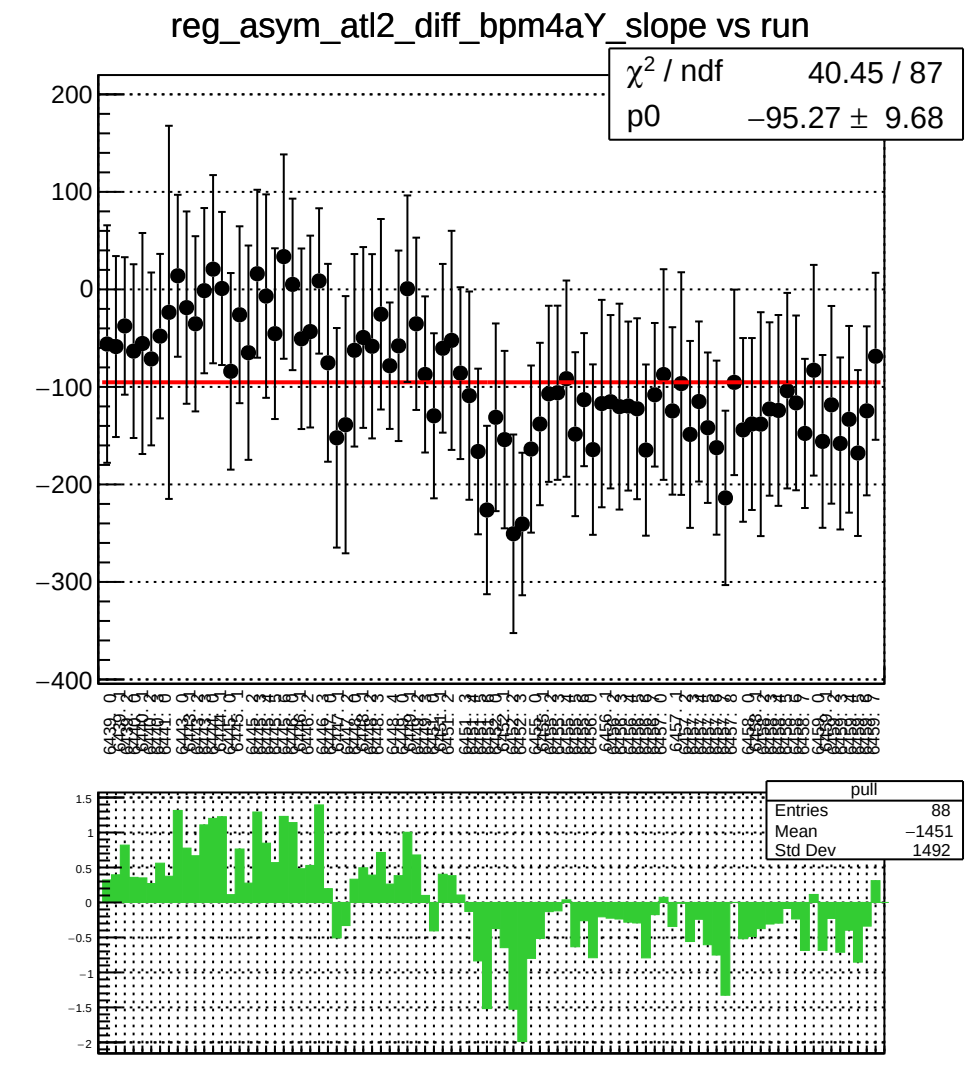

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 112 / 87
p0 −39.79 ± 2.659
pull
Entries 88
Mean −966.2
Std Dev 998.3
pull1D
Entries 88
Mean −0.007822
Std Dev 1.128

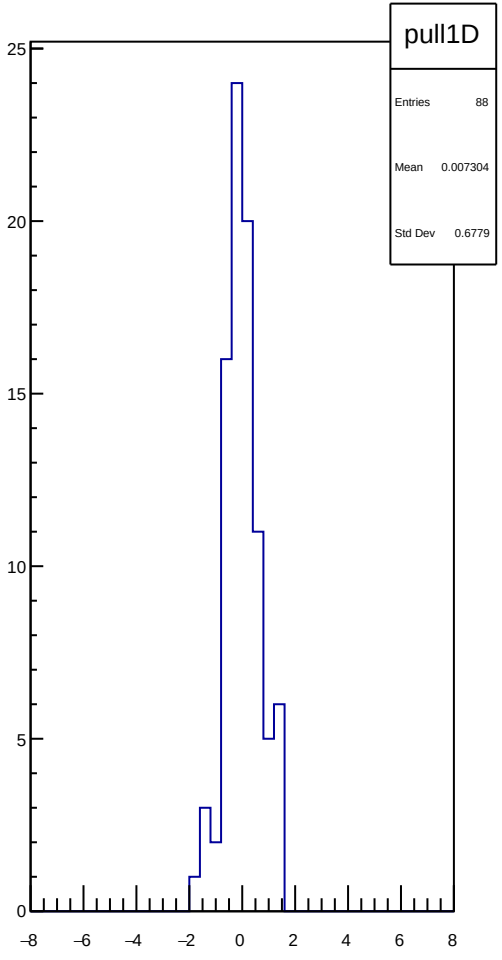

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 127.9 / 87
p0 −28.36 ± 0.1095
pull
Entries 88
Mean 144.1
Std Dev 118.3

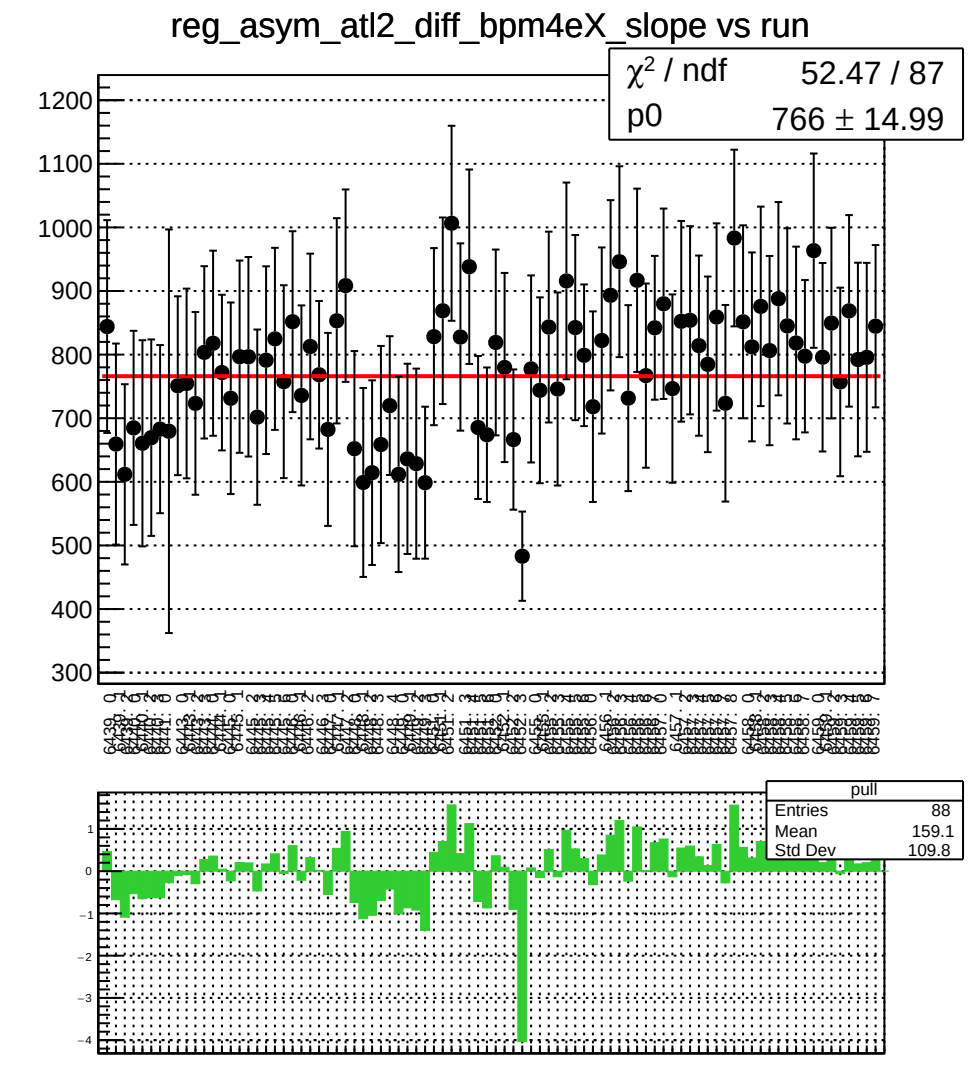

pull1D
Entries 88
Mean 0.01721
Std Dev 1.205

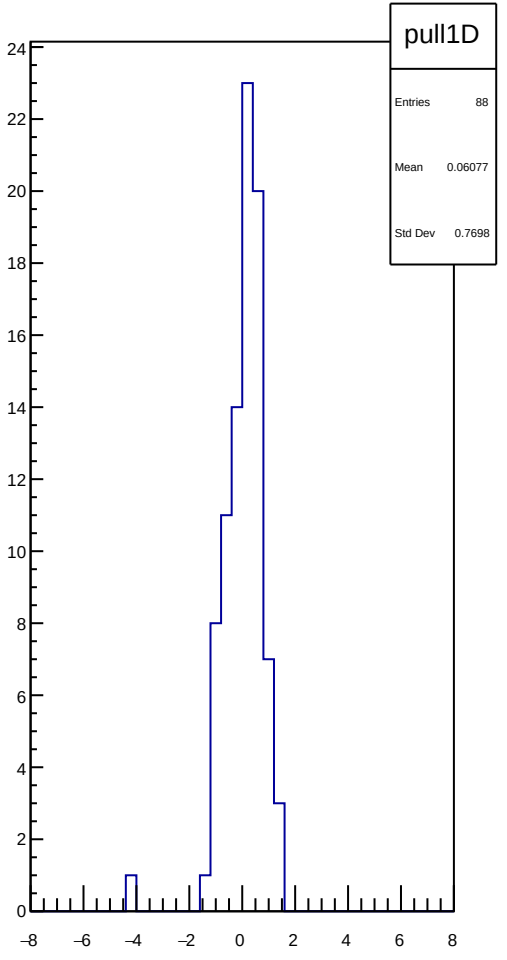

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 47.75 / 87
p0 −713.5 ± 13.8
pull
Entries 88
Mean 130.3
Std Dev 78.14

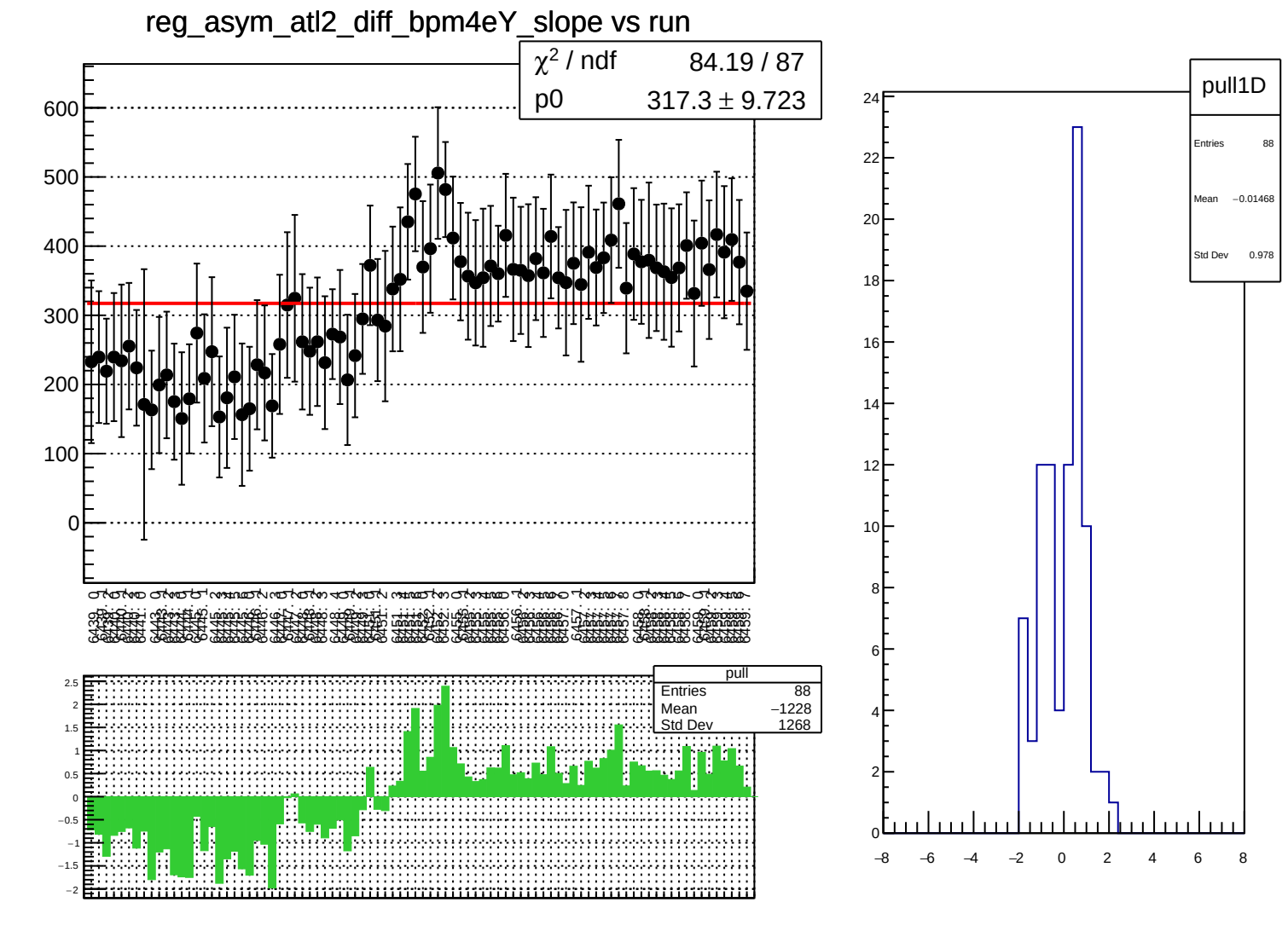

pull1D
Entries 88
Mean −0.06268
Std Dev 0.734

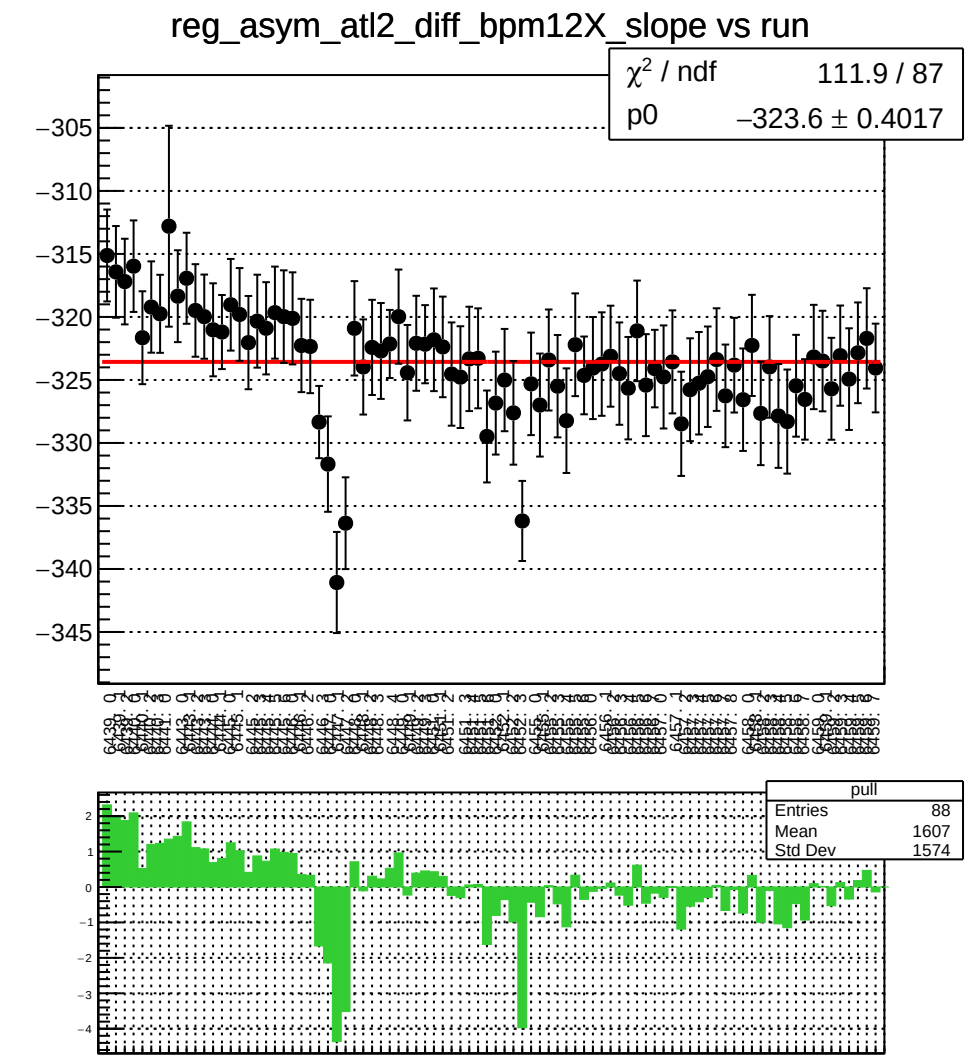

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 40.45 / 87
p0 −95.27 ± 9.68
pull
Entries 88
Mean −1451
Std Dev 1492

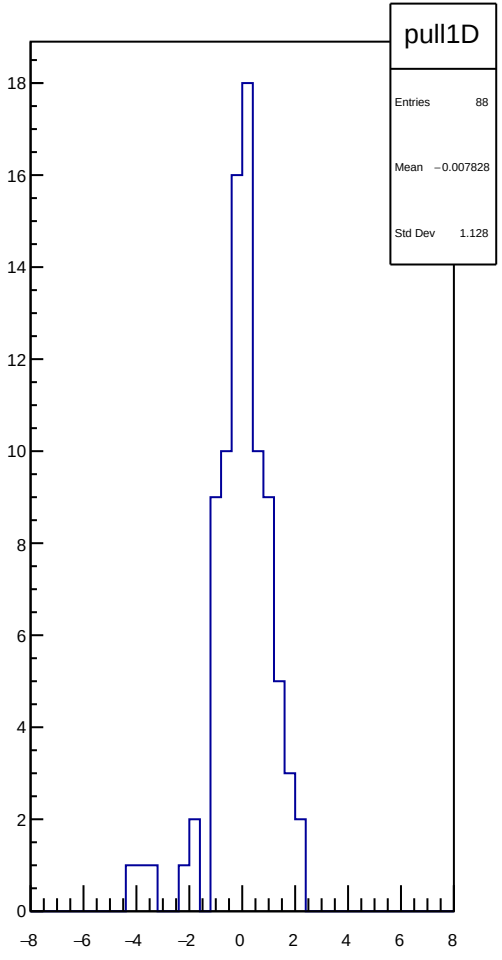

pull1D
Entries 88
Mean 0.007304
Std Dev 0.6779

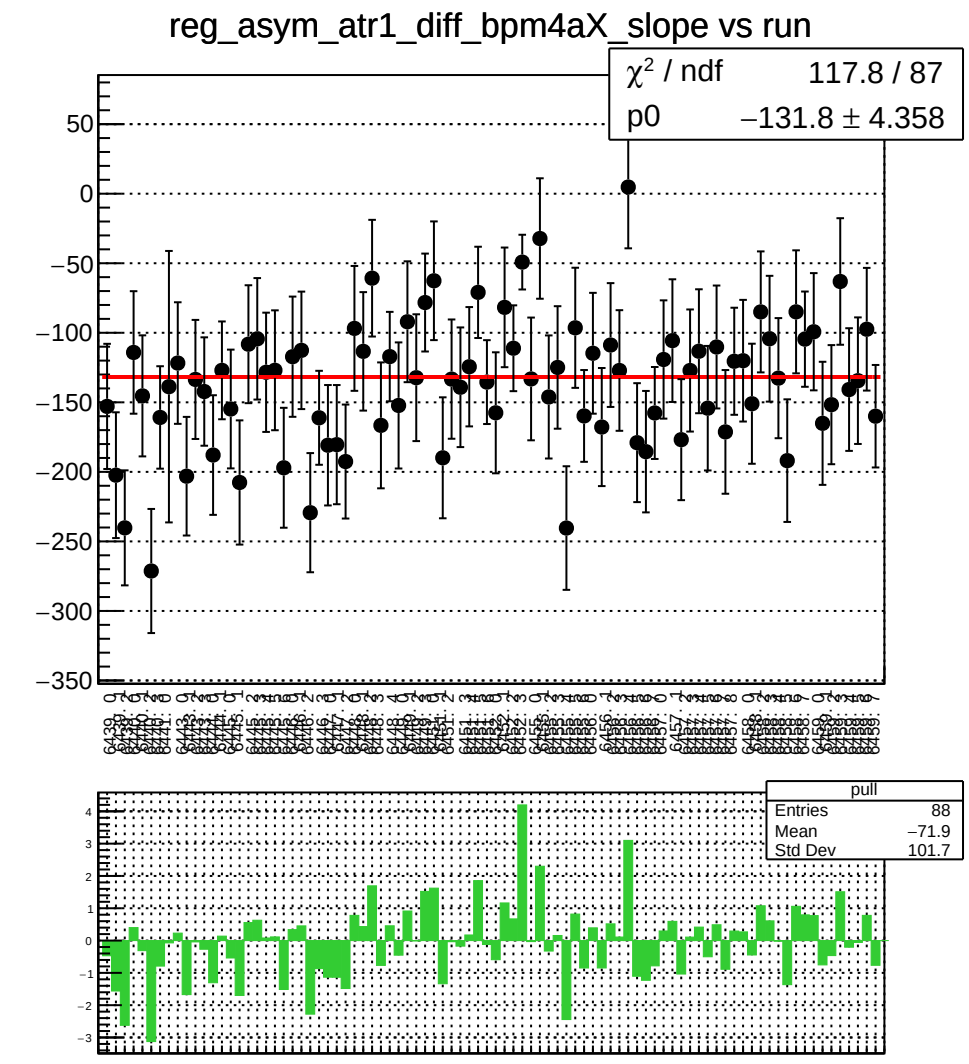

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 52.47 / 87
p0 766 ± 14.99
pull
Entries 88
Mean 159.1
Std Dev 109.8

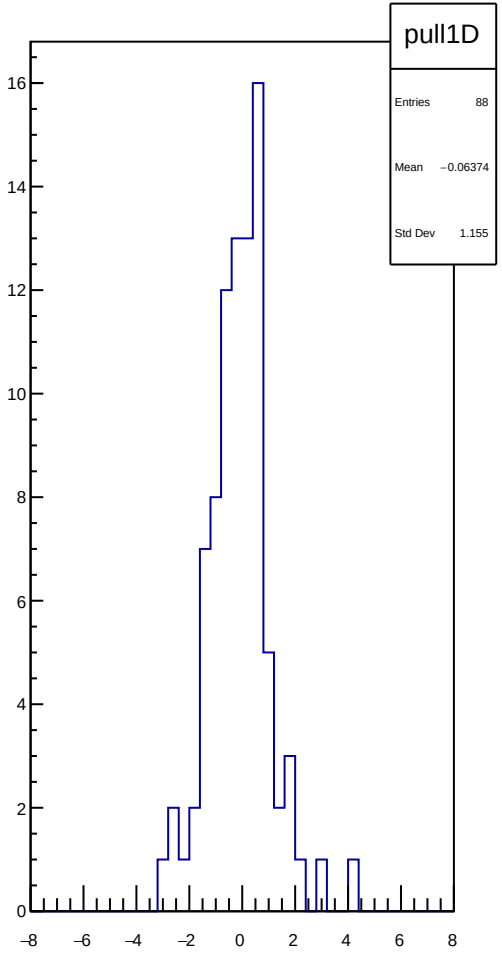

pull1D
Entries 88
Mean 0.06077
Std Dev 0.7698

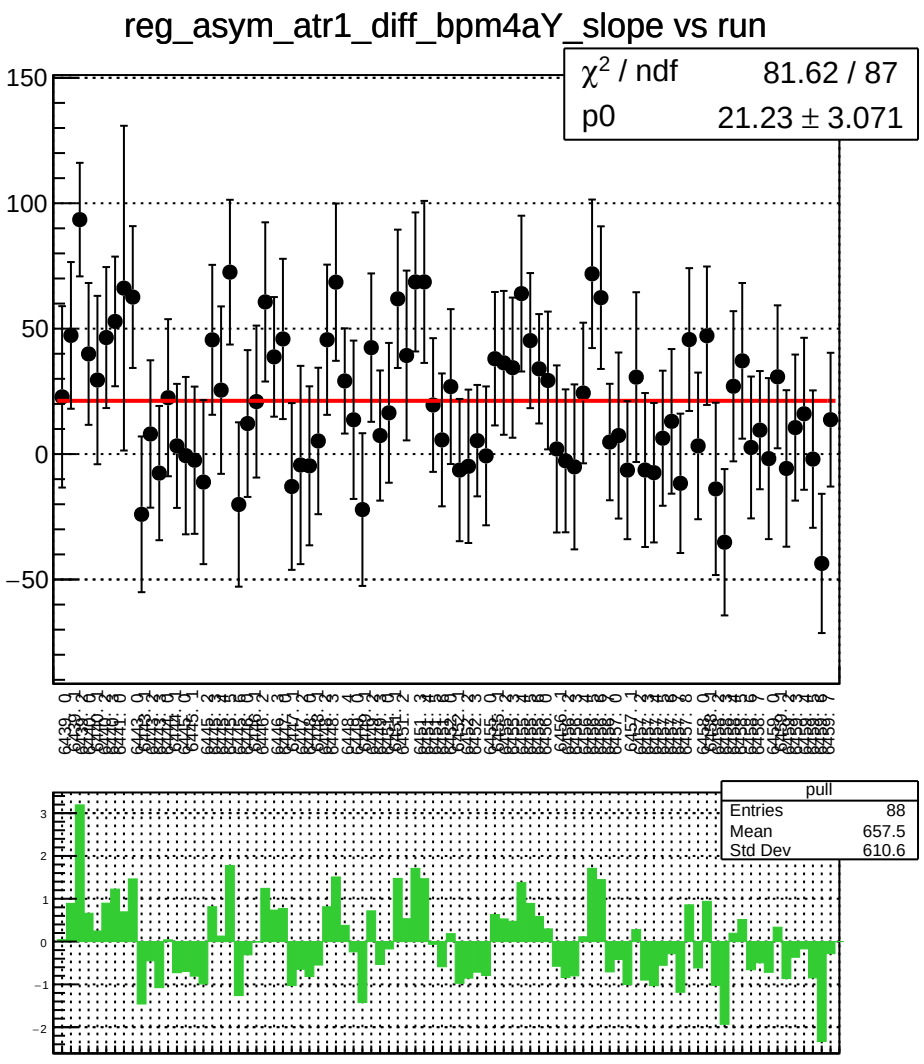

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 84.19 / 87
p0 317.3 ± 9.723
pull
Entries 88
Mean −1228
Std Dev 1268
pull1D
Entries 88
Mean −0.01468
Std Dev 0.978

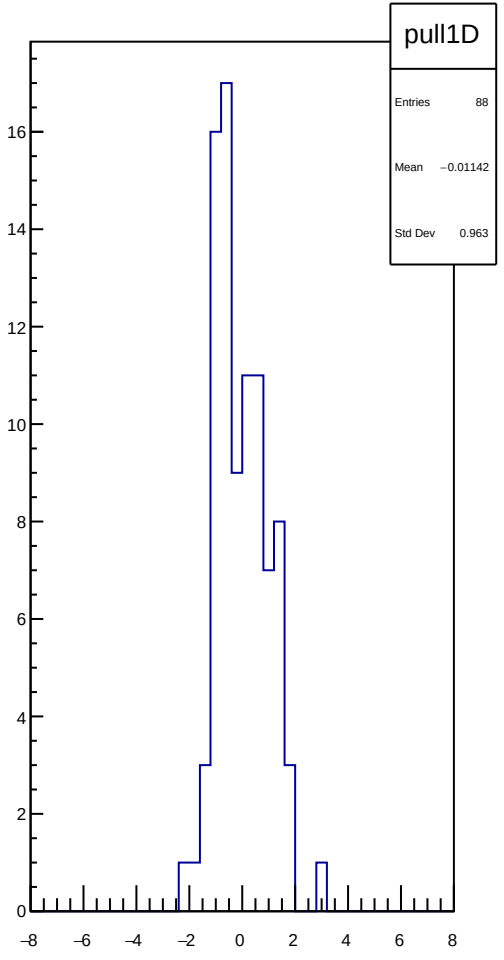

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 111.9 / 87
p0 −323.6 ± 0.4017
pull
Entries 88
Mean 1607
Std Dev 1574

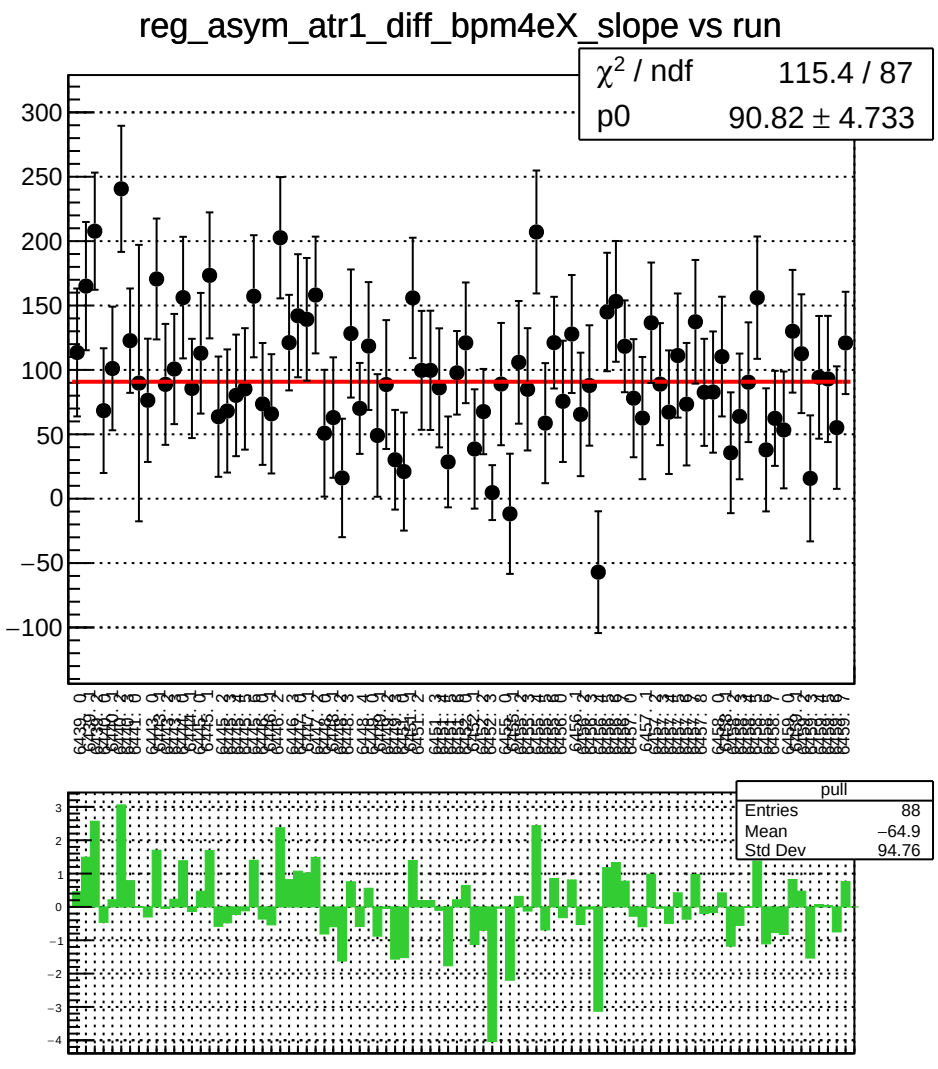

pull1D
Entries 88
Mean −0.007828
Std Dev 1.128

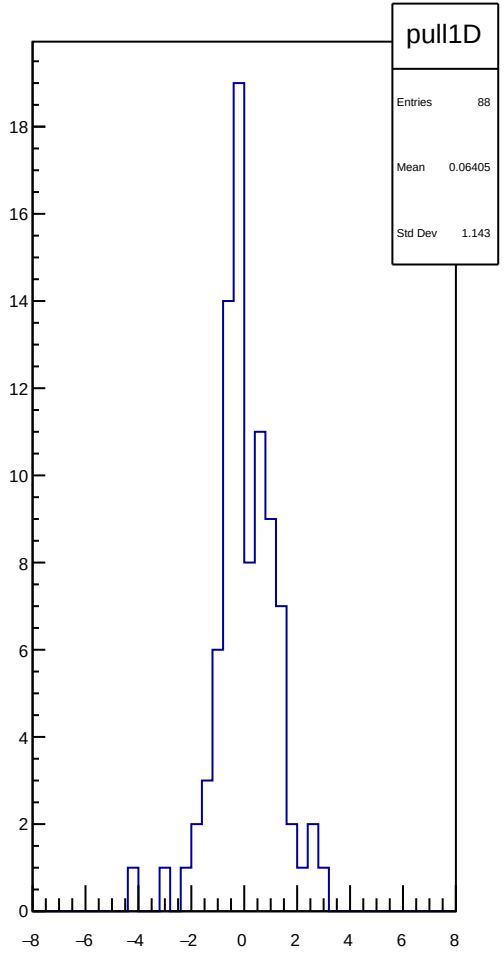

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 117.8 / 87
p0 −131.8 ± 4.358
pull
Entries 88
Mean −71.9
Std Dev 101.7

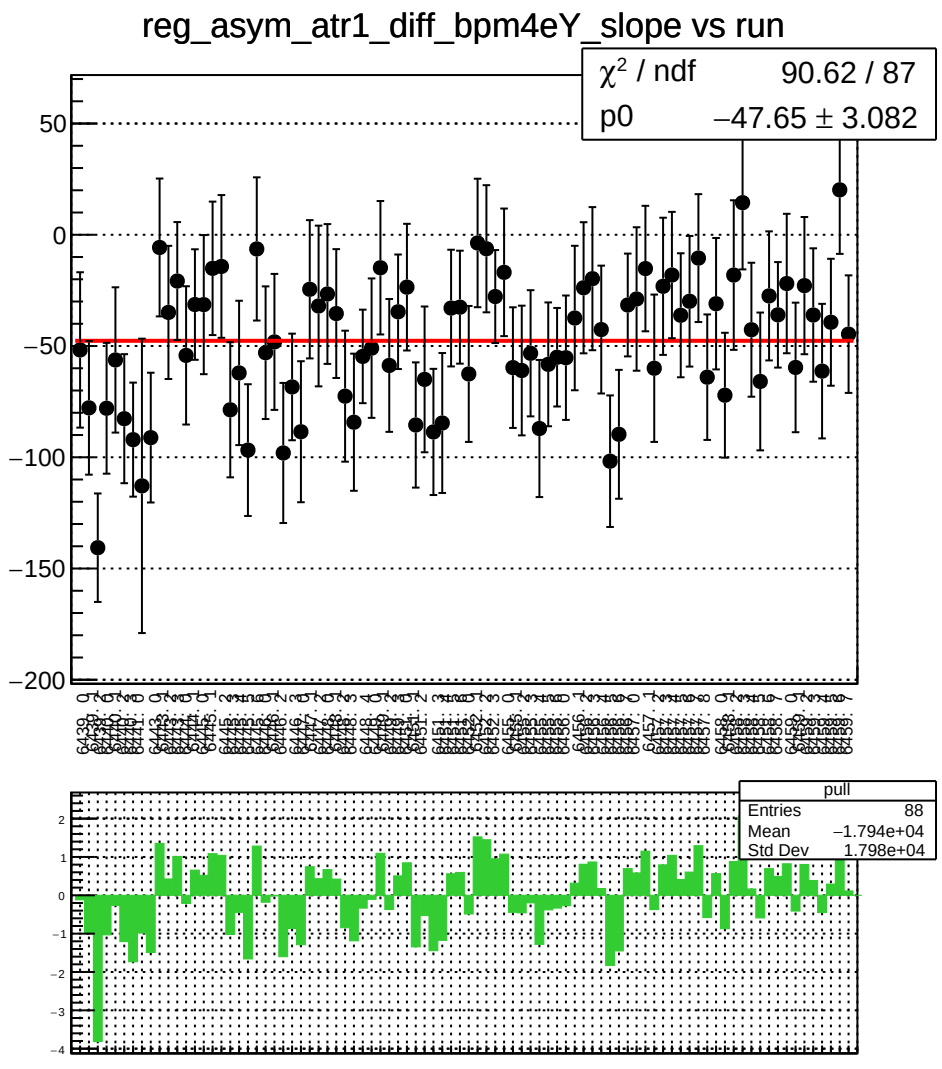

pull1D
Entries 88
Mean −0.06374
Std Dev 1.155

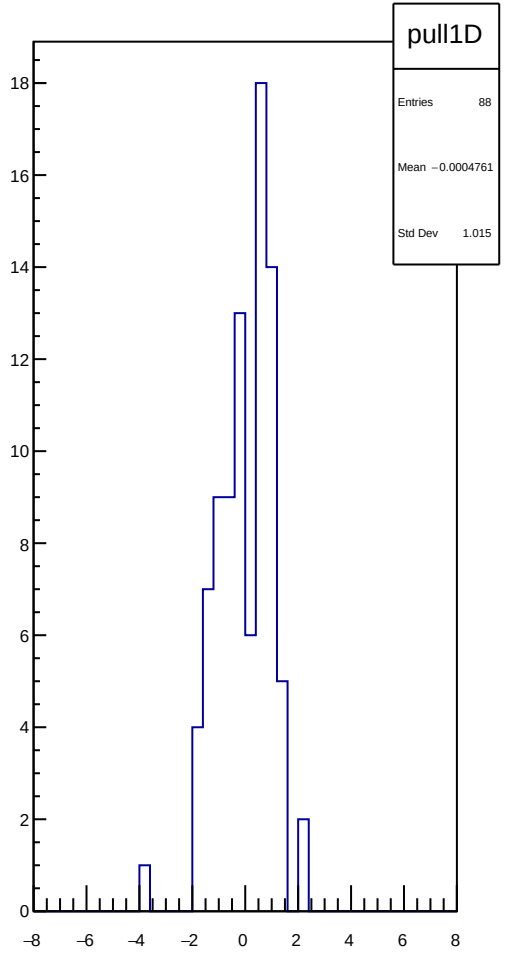

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 81.62 / 87
p0 21.23 ± 3.071
150
100
50
0
−50
pull
Entries 88
Mean 657.5
Std Dev 610.6
3
2
1
0
−1
−2

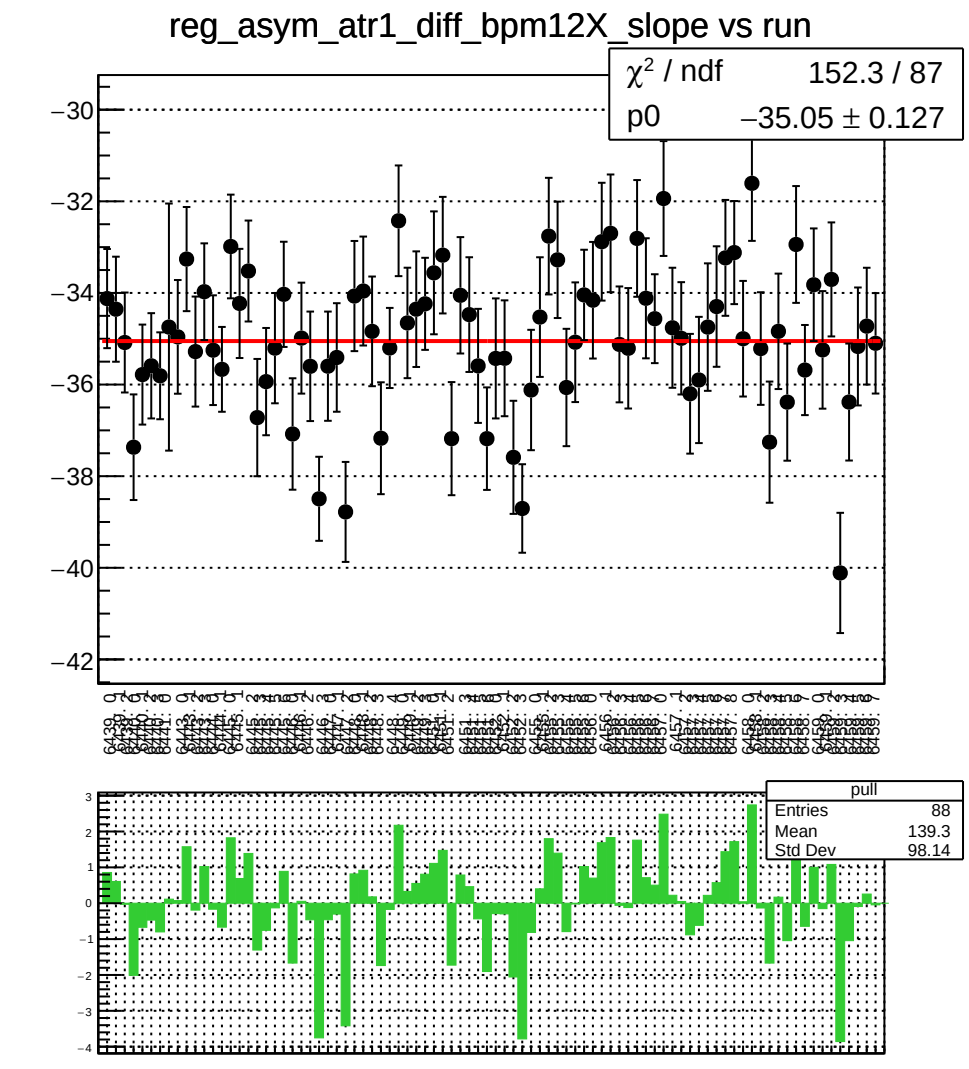

pull1D
Entries 88
Mean −0.01142
Std Dev 0.963
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

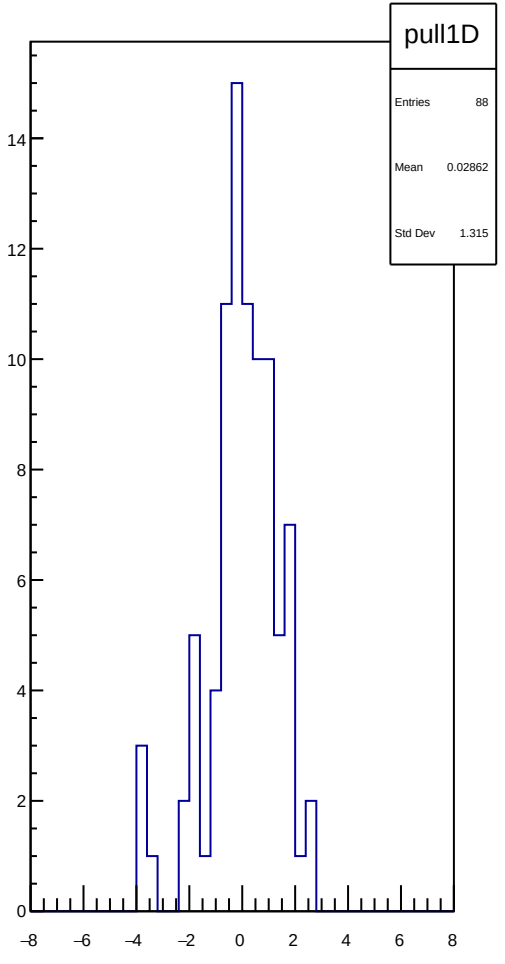

reg_asym_atr1_diff_bpm4eX_slope vs run
χ^2 / ndf 115.4 / 87
p0 90.82 ± 4.733
pull
Entries 88
Mean −64.9
Std Dev 94.76

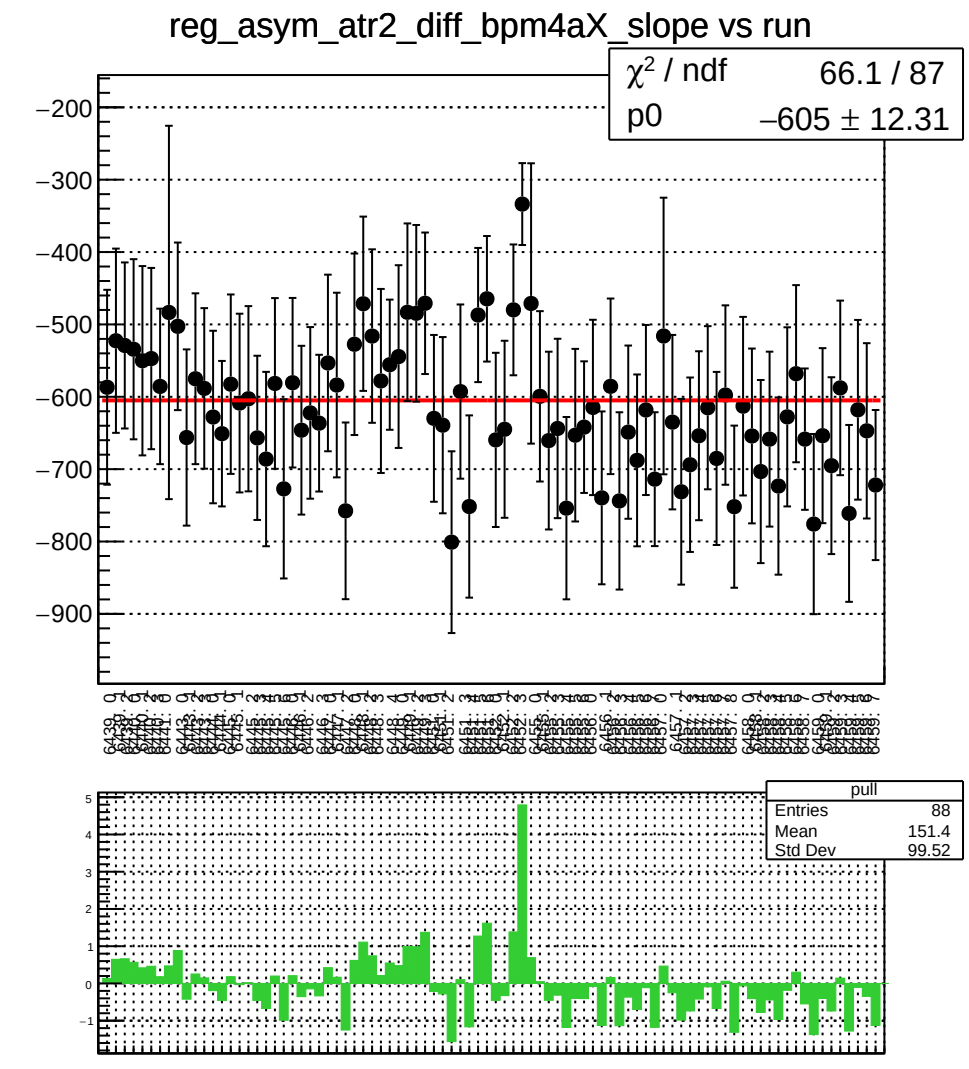

pull1D
Entries 88
Mean 0.06405
Std Dev 1.143

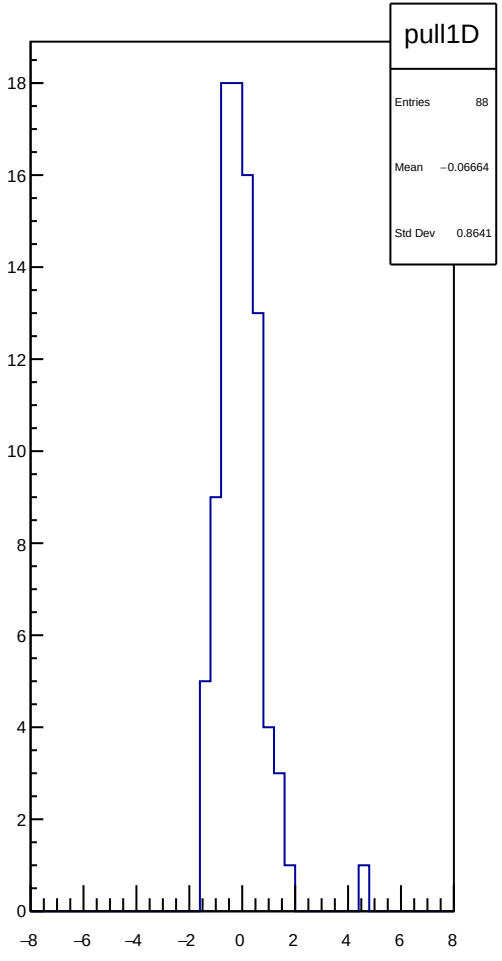

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 90.62 / 87
p0 −47.65 ± 3.082
pull
Entries 88
Mean −1.794e+04
Std Dev 1.798e+04

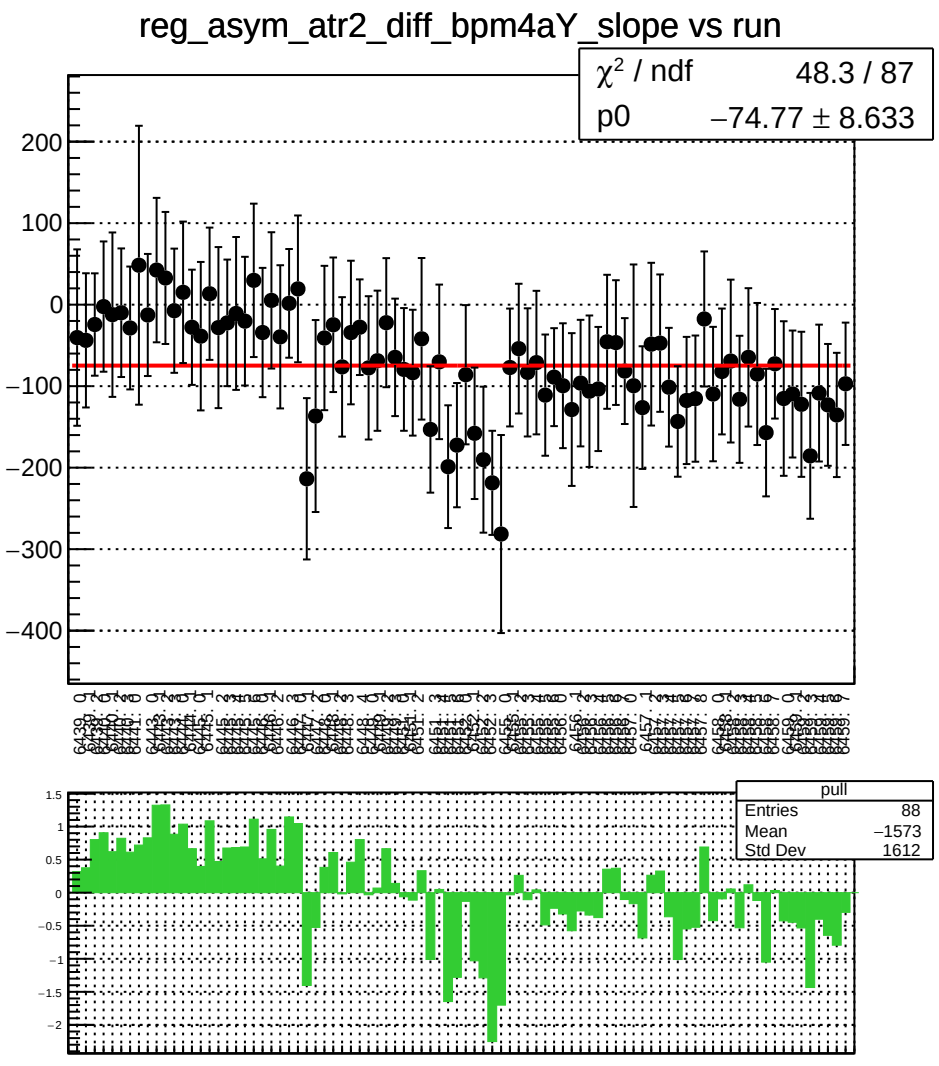

pull1D
Entries 88
Mean −0.0004761
Std Dev 1.015

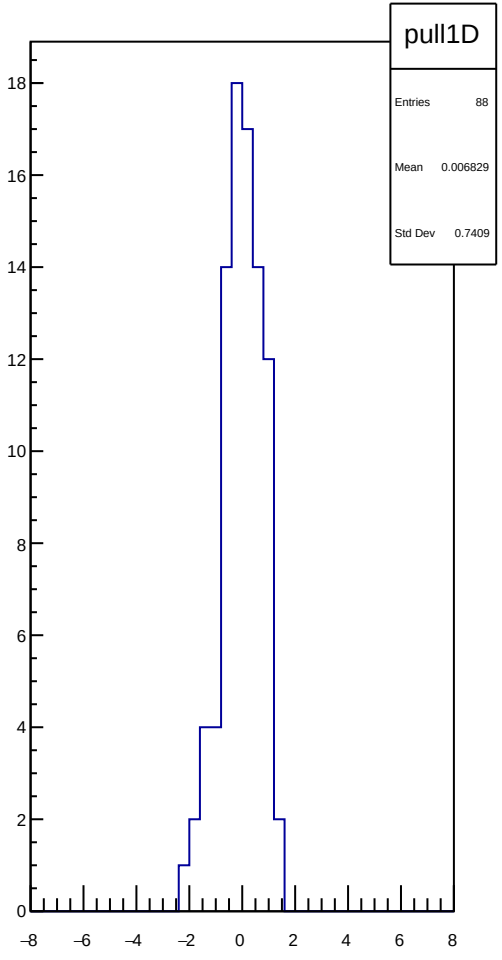

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 152.3 / 87
p0 −35.05 ± 0.127
pull
Entries 88
Mean 139.3
Std Dev 98.14

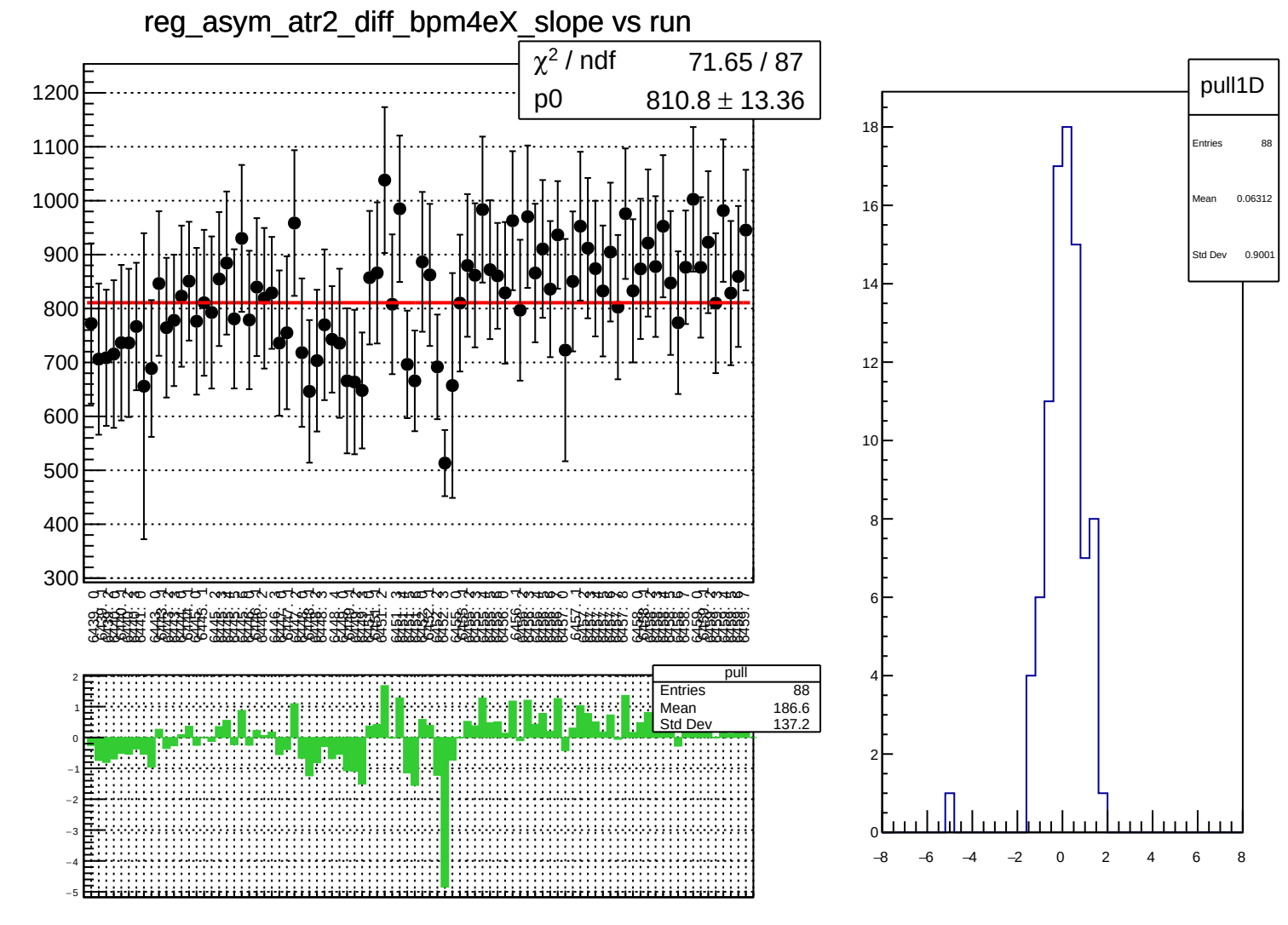

pull1D
Entries 88
Mean 0.02862
Std Dev 1.315

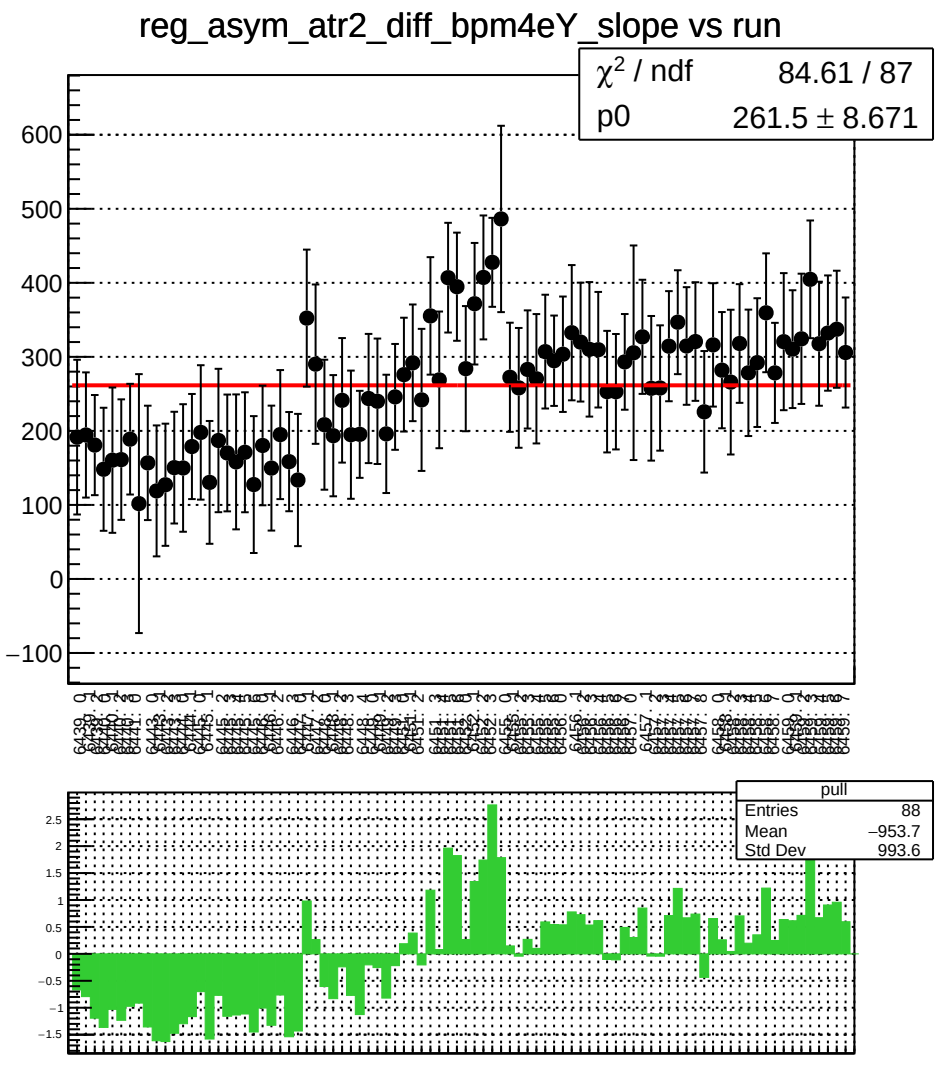

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 66.1 / 87
p0 −605 ± 12.31
pull
Entries 88
Mean 151.4
Std Dev 99.52

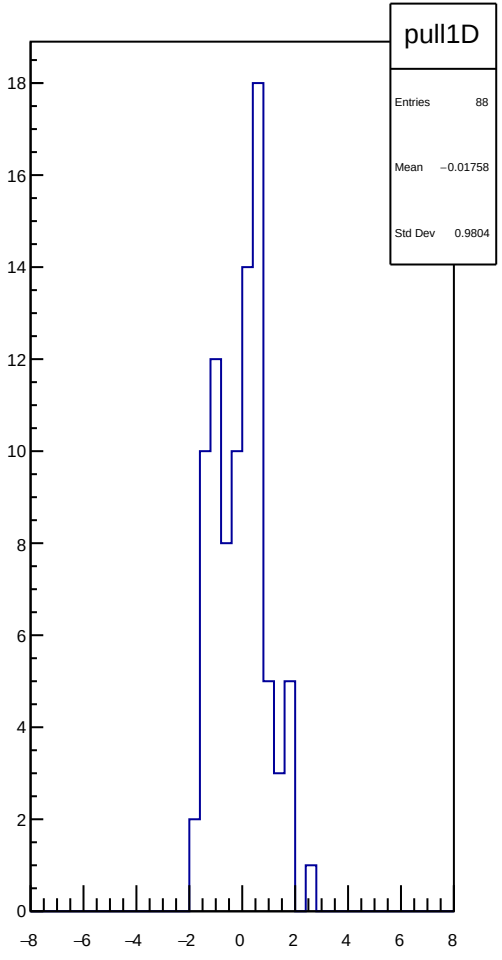

pull1D
Entries 88
Mean −0.06664
Std Dev 0.8641

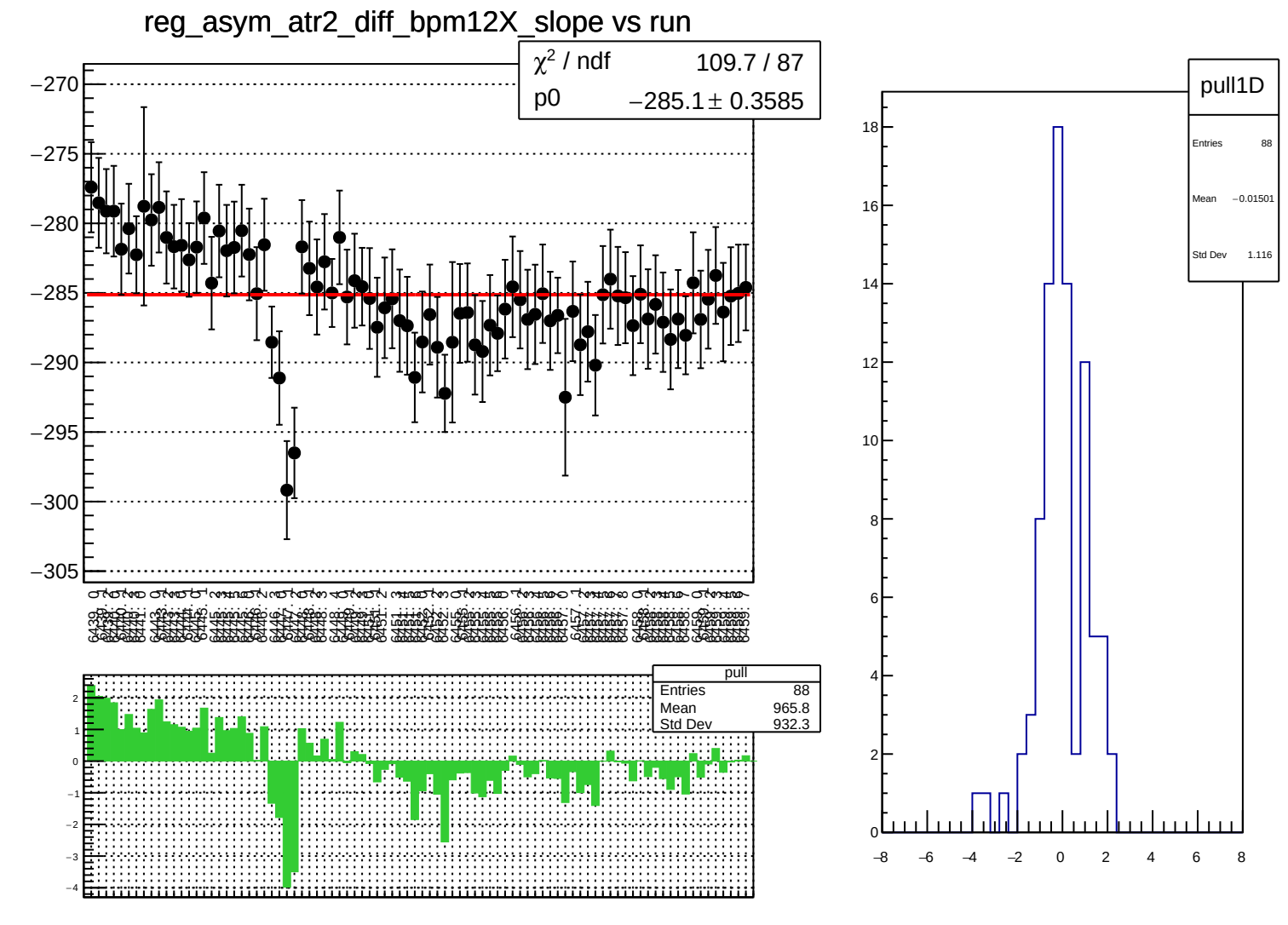

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 48.3 / 87
p0 −74.77 ± 8.633
pull
Entries 88
Mean −1573
Std Dev 1612

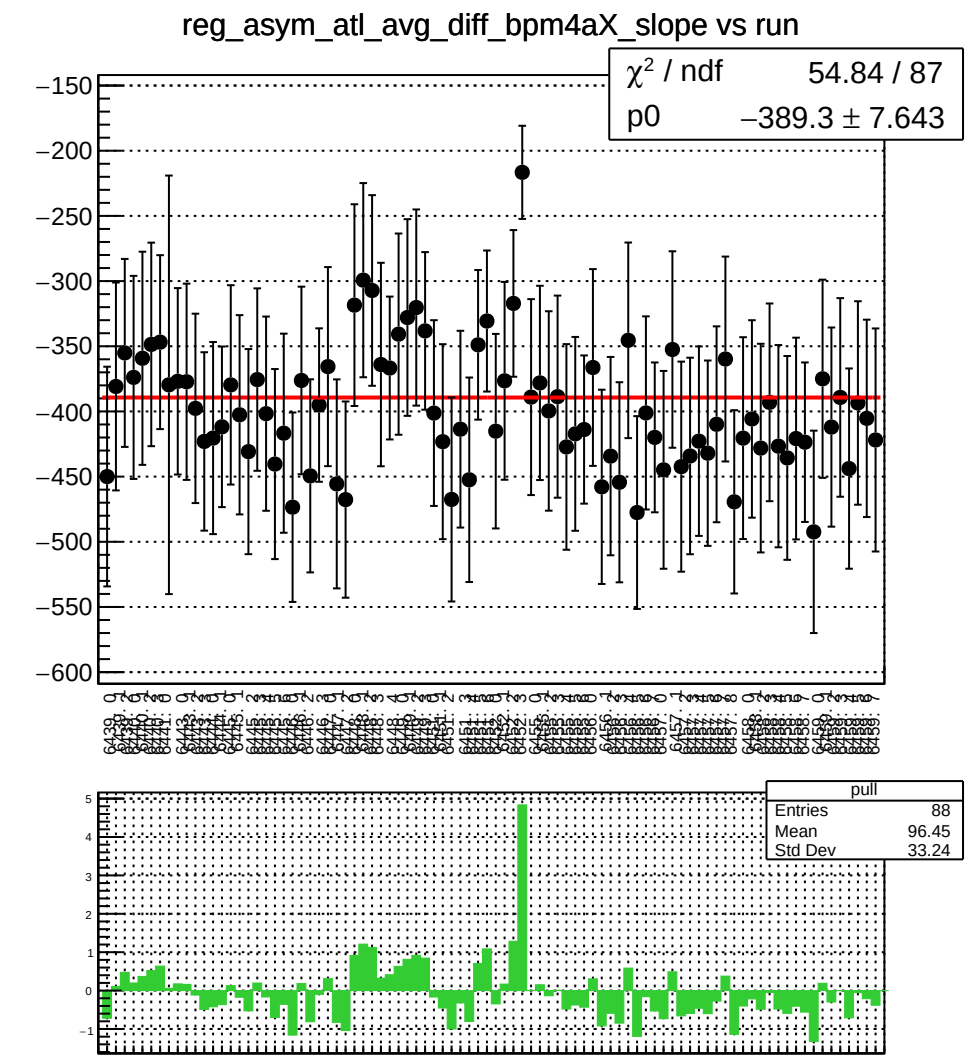

pull1D
Entries 88
Mean 0.006829
Std Dev 0.7409

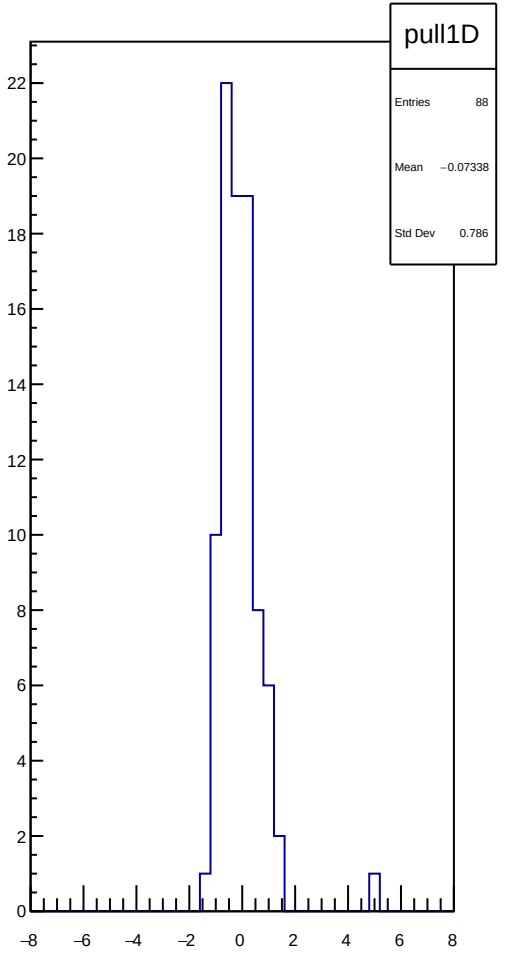

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 71.65 / 87
p0 810.8 ± 13.36
pull
Entries 88
Mean 186.6
Std Dev 137.2
pull1D
Entries 88
Mean 0.06312
Std Dev 0.9001

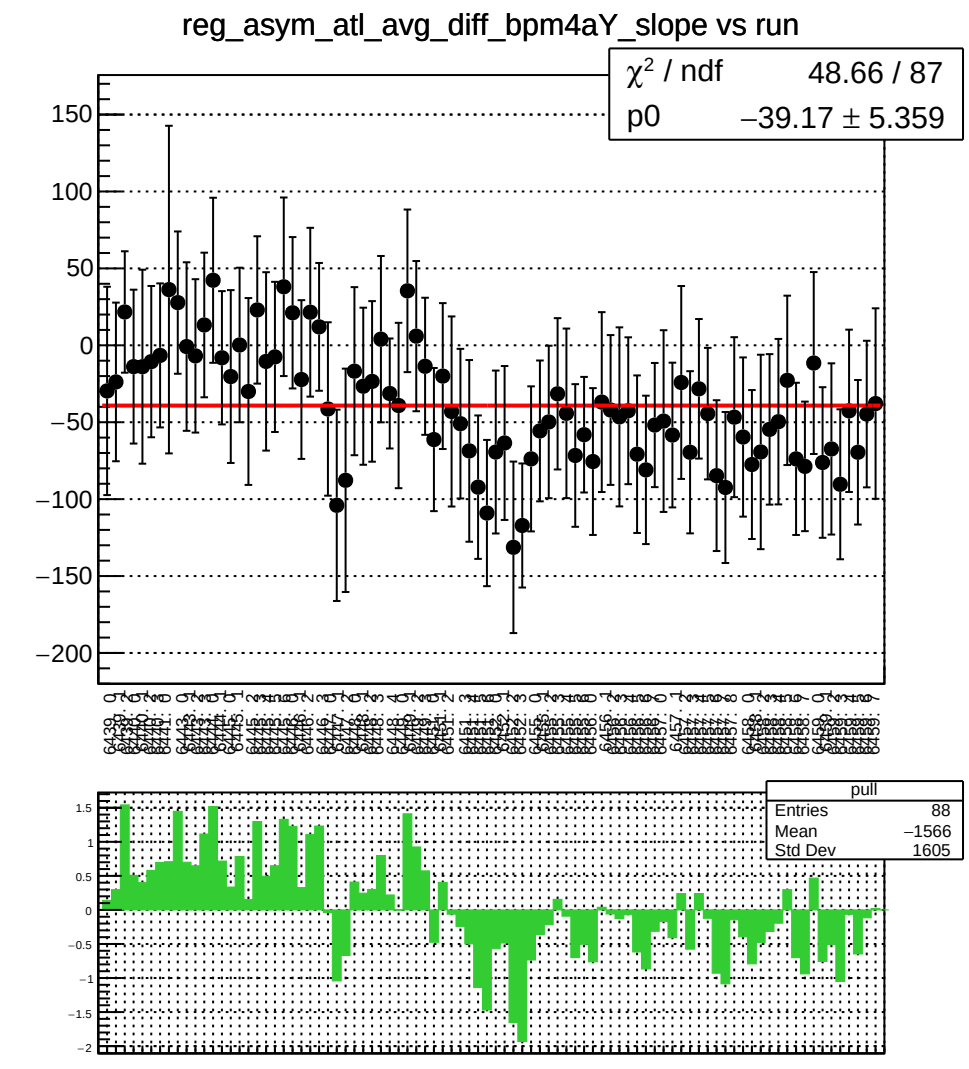

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 84.61 / 87
p0 261.5 ± 8.671
pull
Entries 88
Mean −953.7
Std Dev 993.6

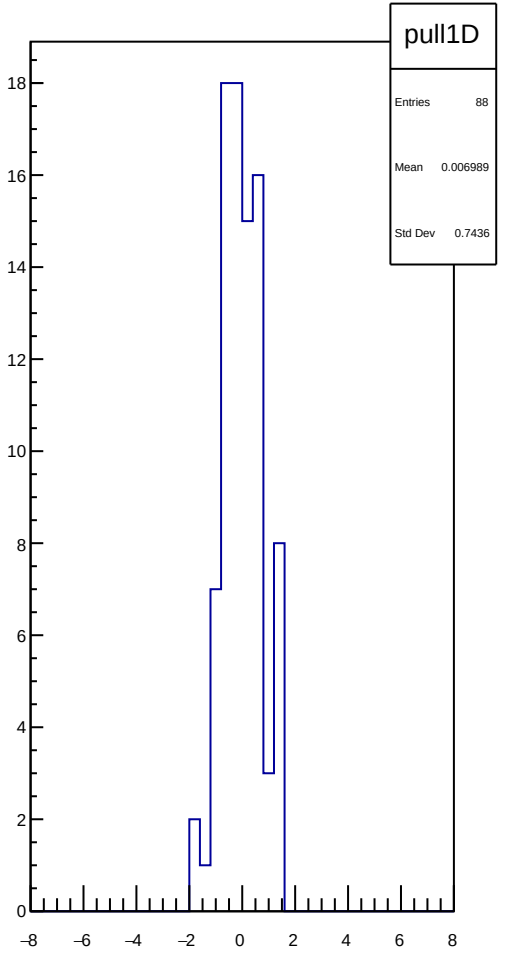

pull1D
Entries 88
Mean −0.01758
Std Dev 0.9804

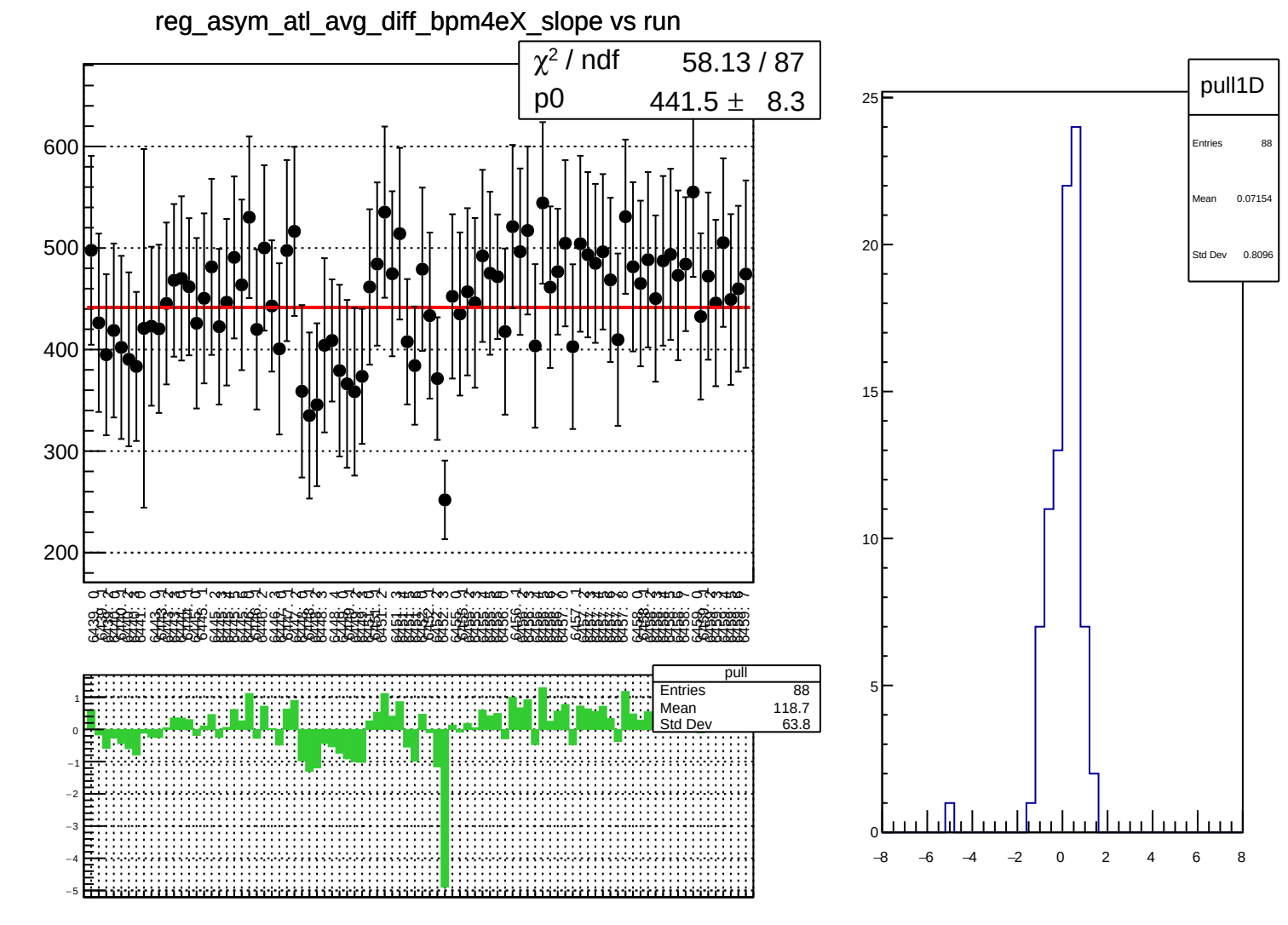

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 109.7 / 87
p0 −285.1 ± 0.3585
pull
Entries 88
Mean 965.8
Std Dev 932.3
pull1D
Entries 88
Mean −0.01501
Std Dev 1.116

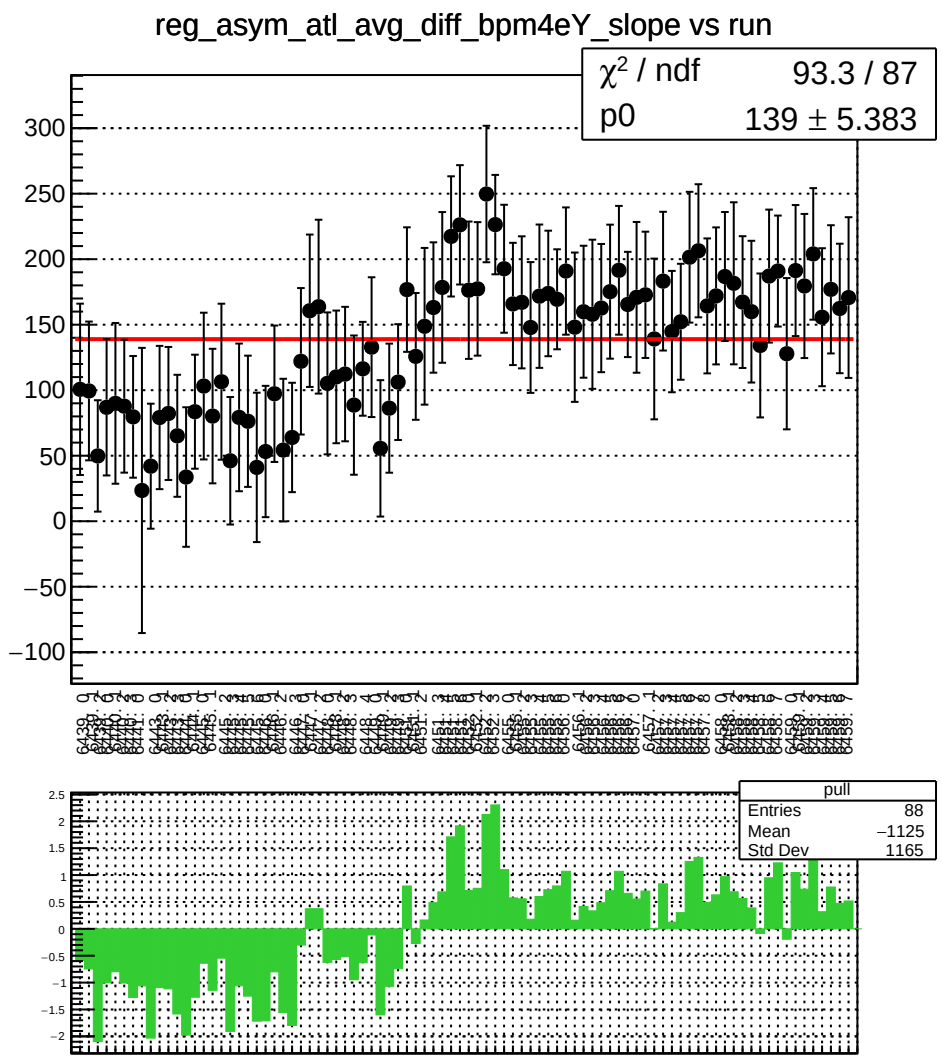

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 54.84 / 87
p0 −389.3 ± 7.643
pull
Entries 88
Mean 96.45
Std Dev 33.24

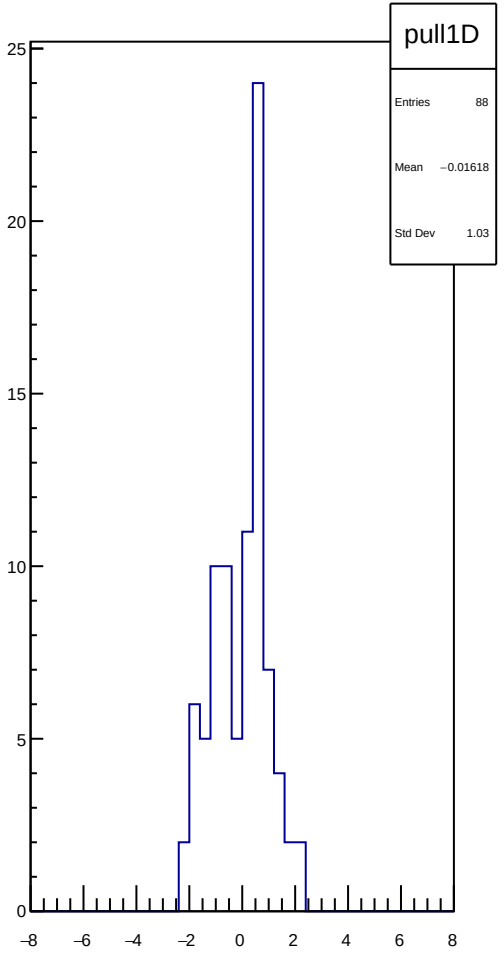

pull1D
Entries 88
Mean −0.07338
Std Dev 0.786

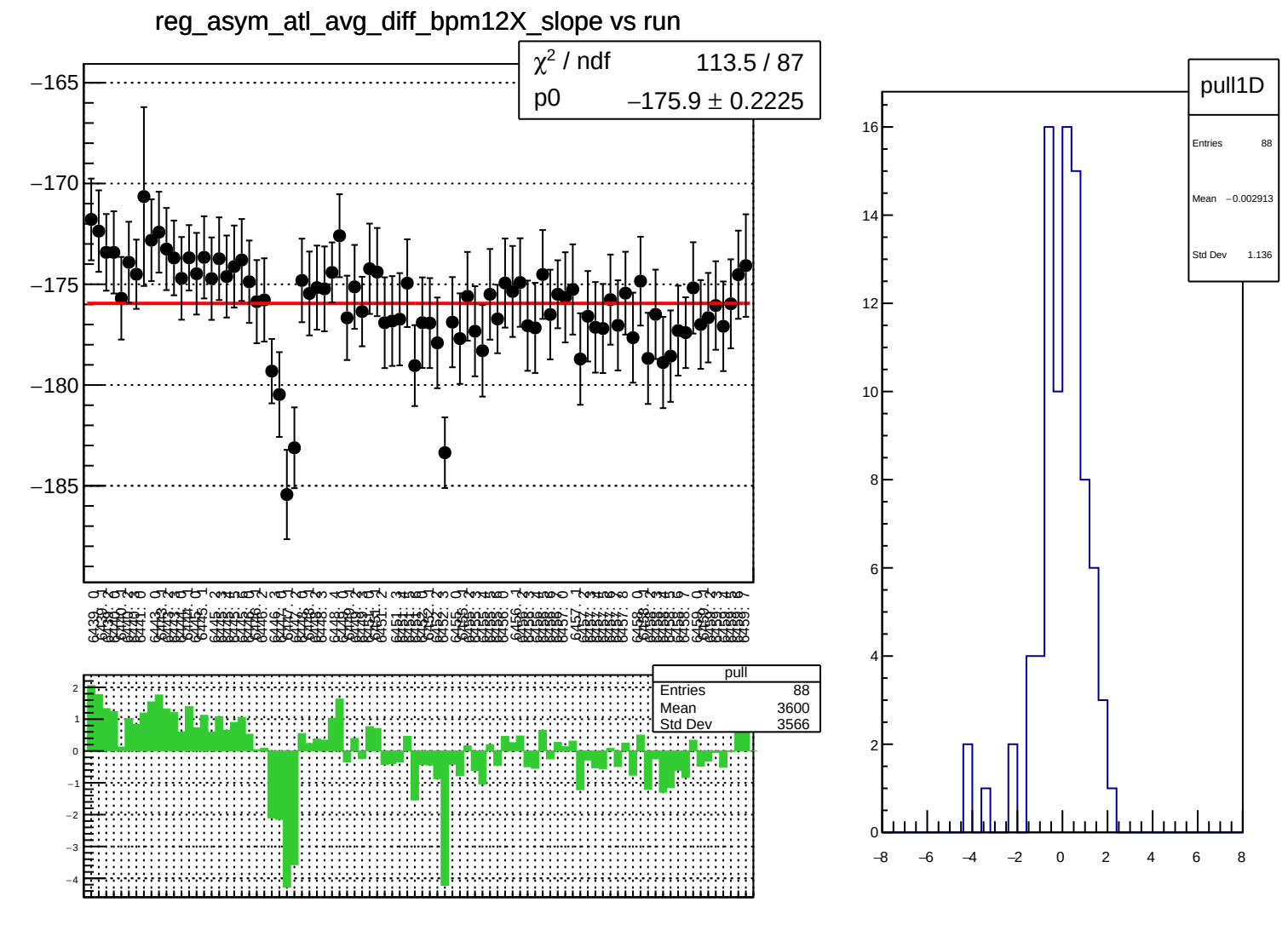

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.66 / 87
p0 −39.17 ± 5.359
pull
Entries 88
Mean −1566
Std Dev 1605

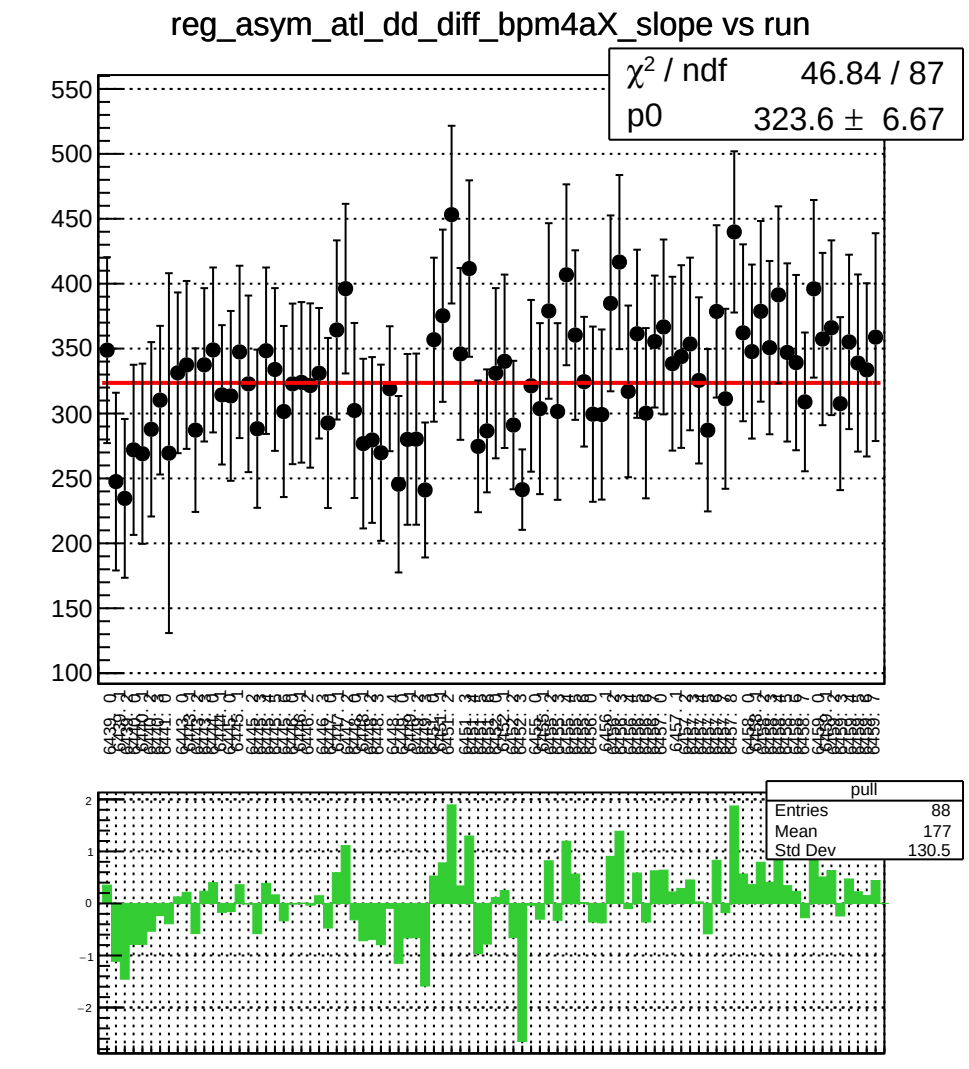

pull1D
Entries 88
Mean 0.006989
Std Dev 0.7436

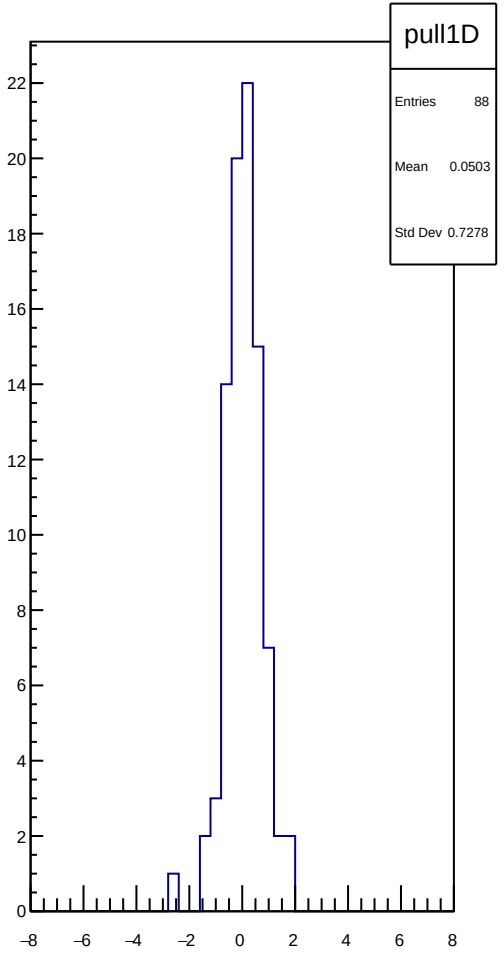

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.13 / 87
p0 441.5 ± 8.3
pull
Entries 88
Mean 118.7
Std Dev 63.8
pull1D
Entries 88
Mean 0.07154
Std Dev 0.8096

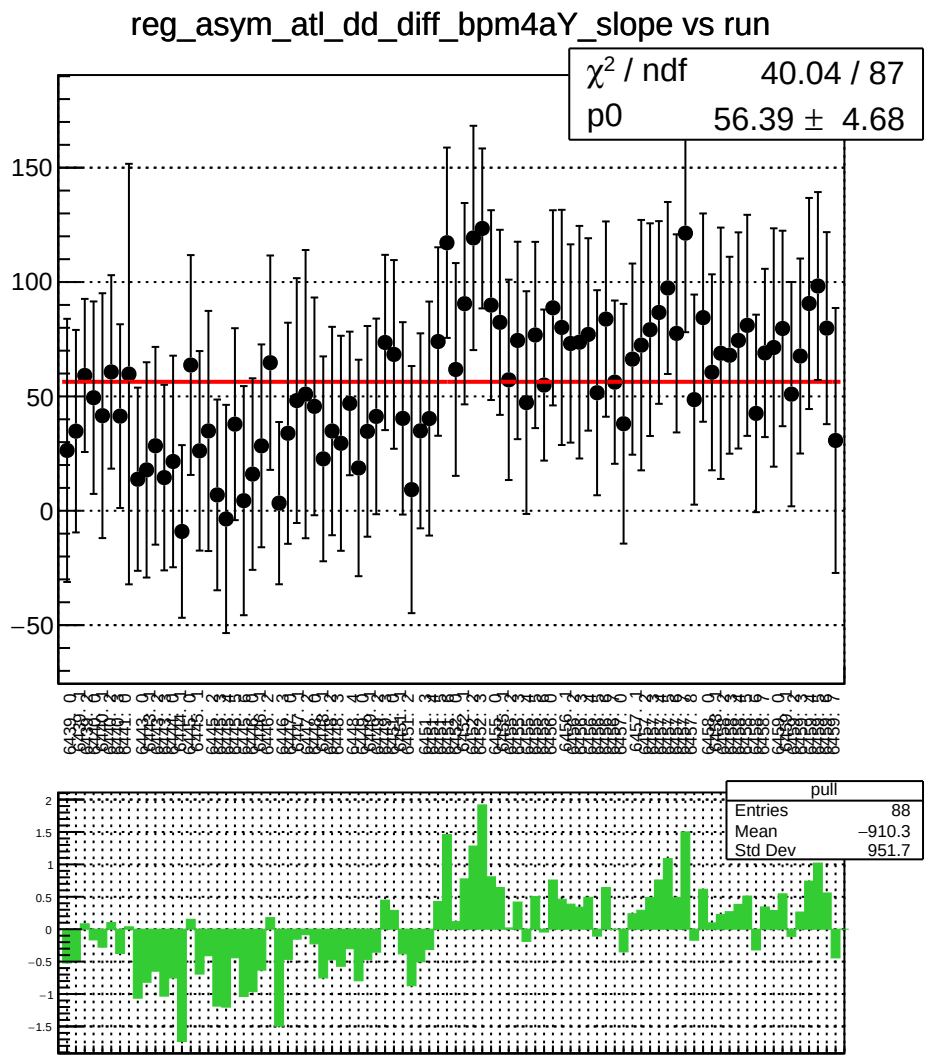

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 93.3 / 87
p0 139 ± 5.383
pull
Entries 88
Mean −1125
Std Dev 1165

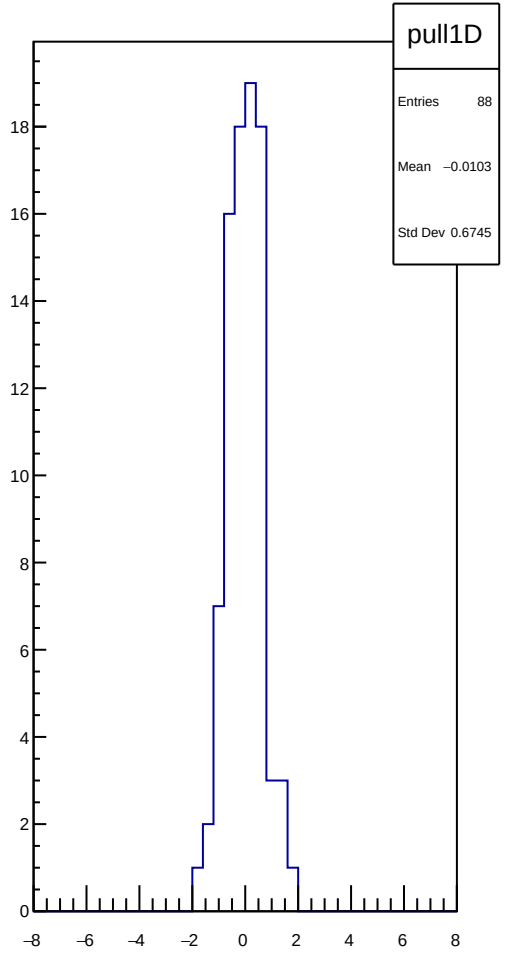

pull1D
Entries 88
Mean −0.01618
Std Dev 1.03

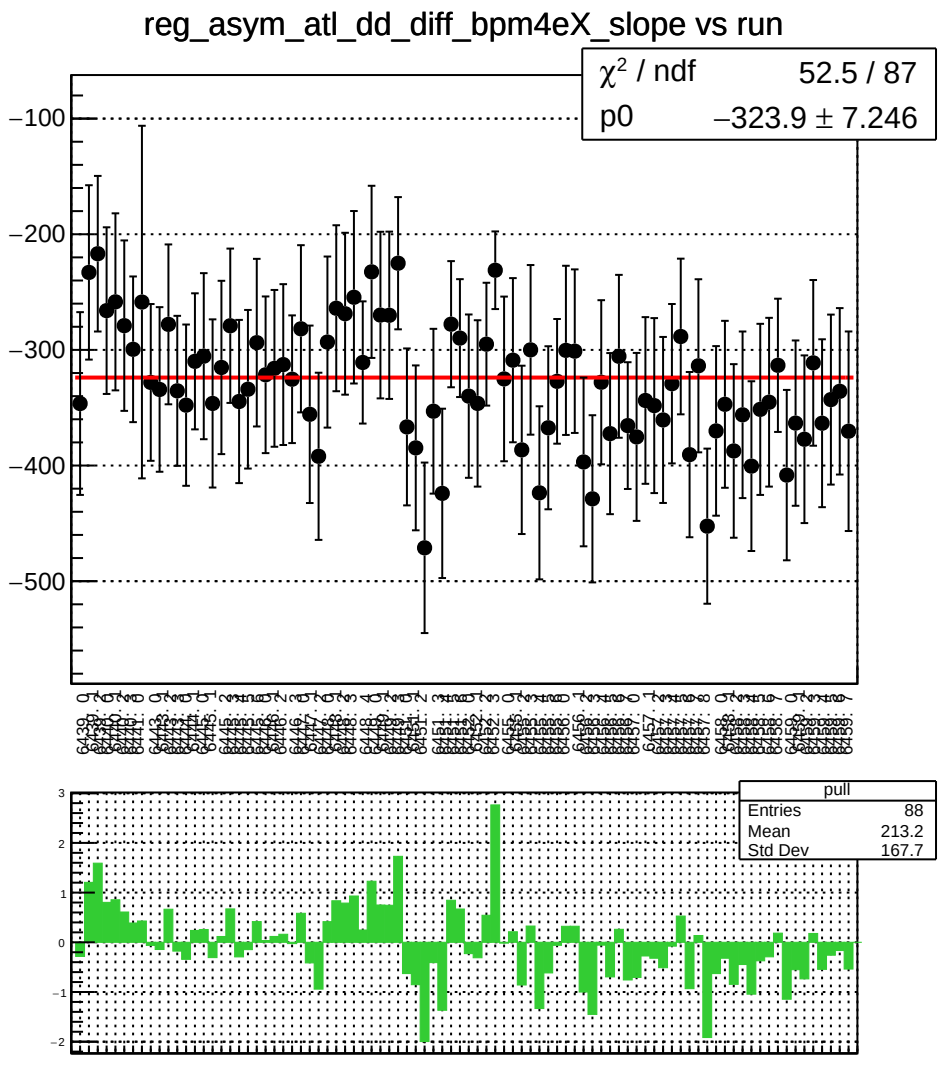

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 113.5 / 87
p0 −175.9 ± 0.2225
−165
−170
−175
−180
−185
pull
Entries 88
Mean 3600
Std Dev 3566
2
1
0
−1
−2
−3
−4
pull1D
Entries 88
Mean −0.002913
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

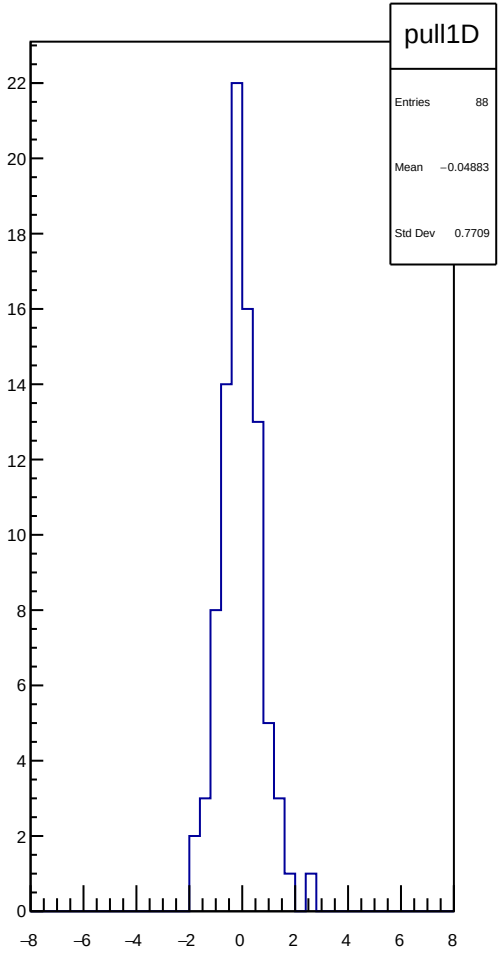

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 46.84 / 87
p0 323.6 ± 6.67
pull
Entries 88
Mean 177
Std Dev 130.5

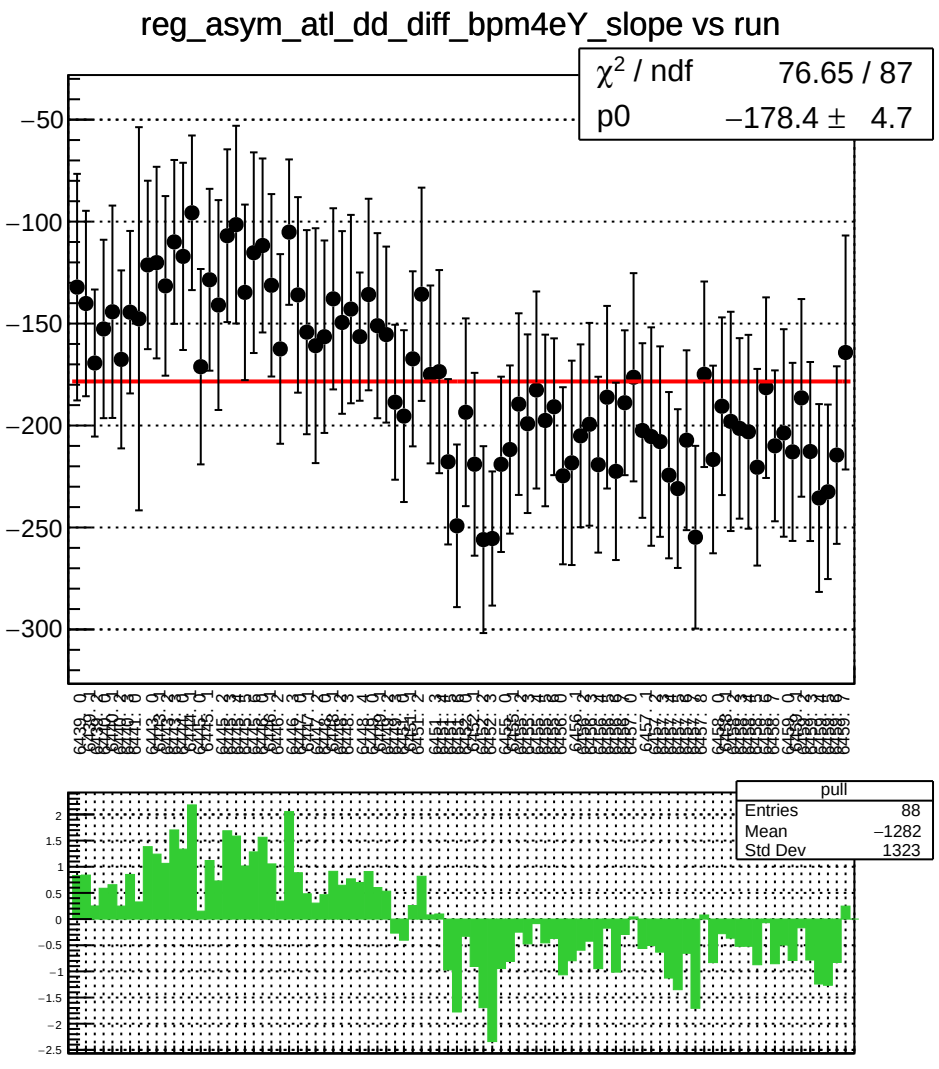

pull1D
Entries 88
Mean 0.0503
Std Dev 0.7278

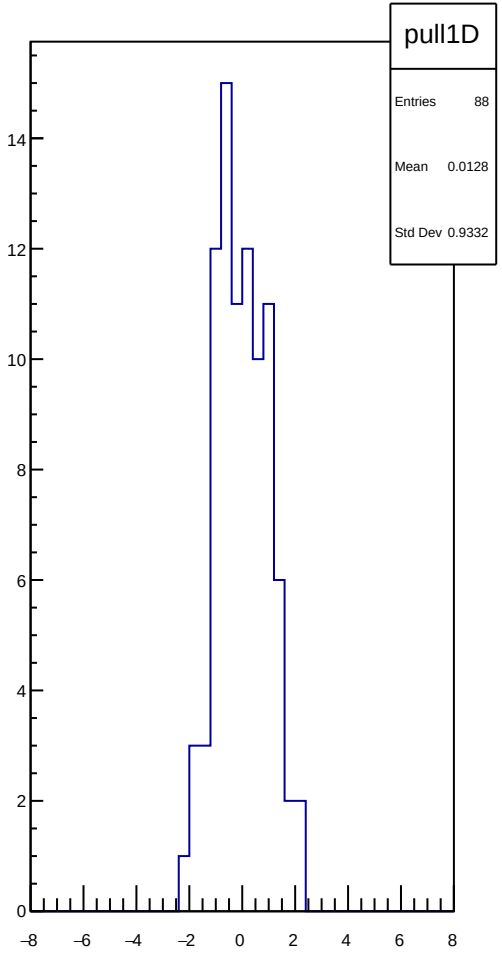

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.04 / 87
p0 56.39 ± 4.68
150
100
50
0
−50
pull
Entries 88
Mean −910.3
Std Dev 951.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

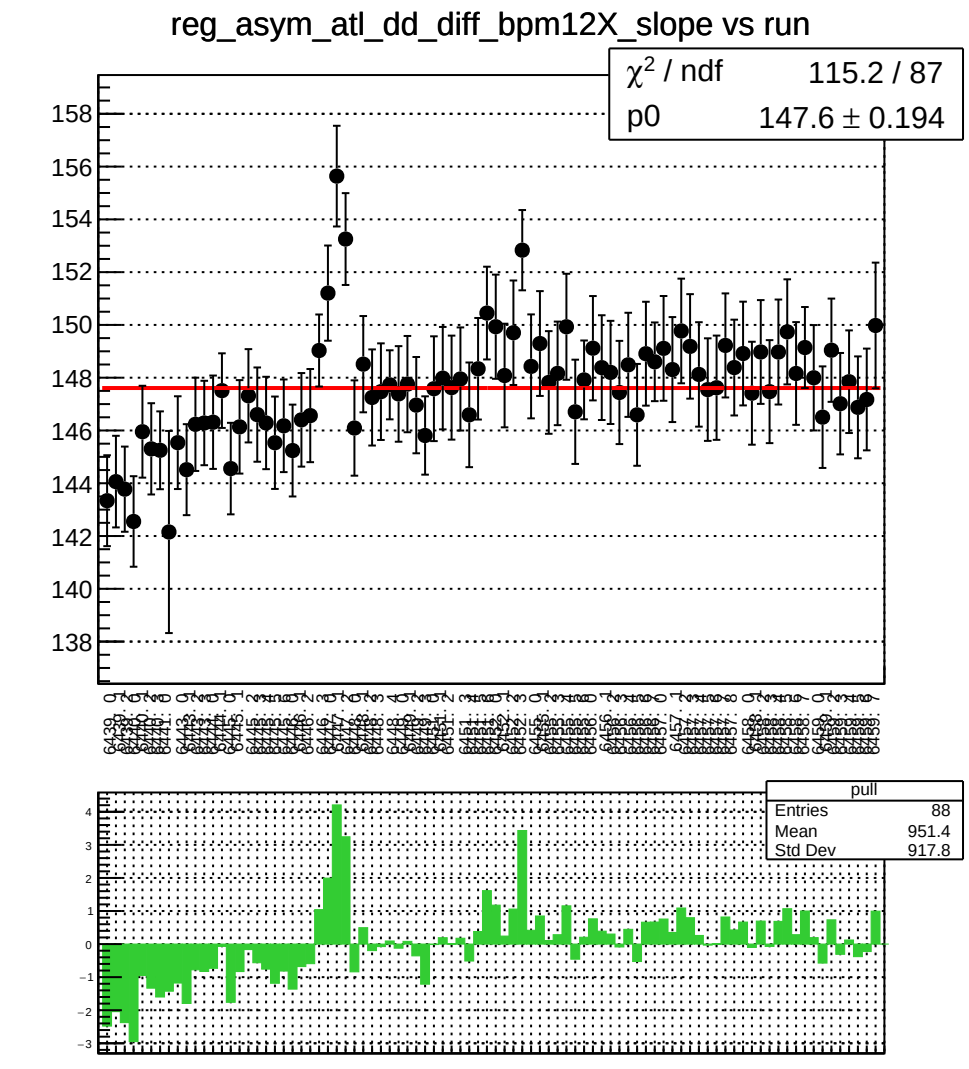

pull1D
Entries 88
Mean −0.0103
Std Dev 0.6745
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

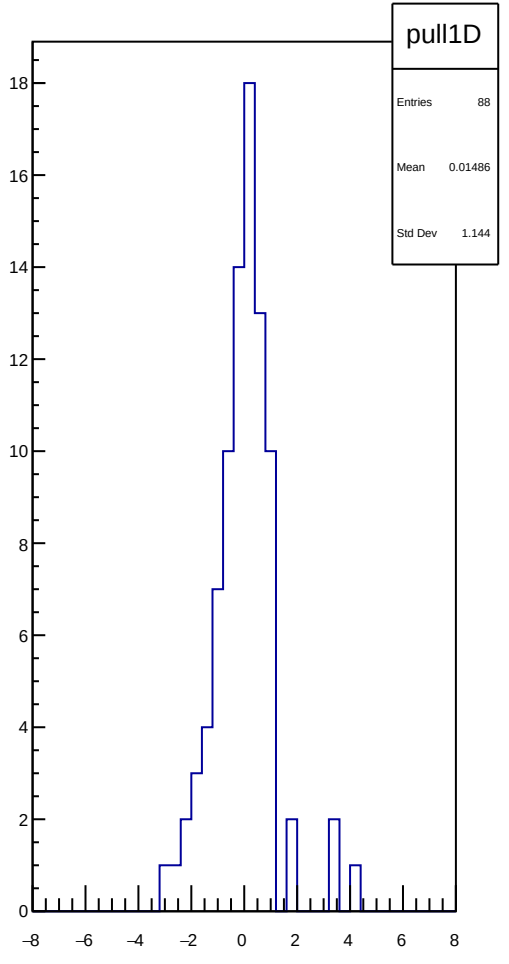

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.5 / 87
p0 −323.9 ± 7.246
−100
−200
−300
−400
−500
pull
Entries 88
Mean 213.2
Std Dev 167.7
3
2
1
0
−1
−2

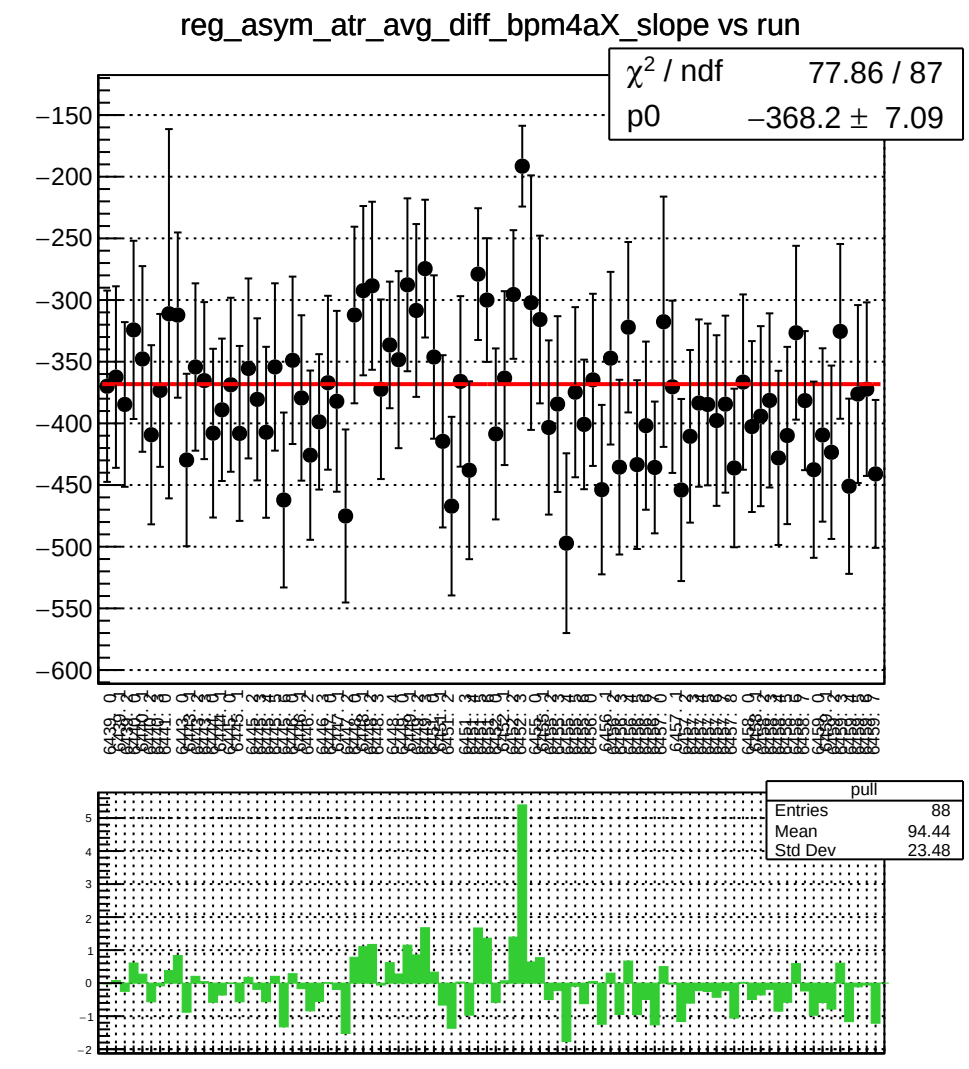

pull1D
Entries 88
Mean −0.04883
Std Dev 0.7709
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

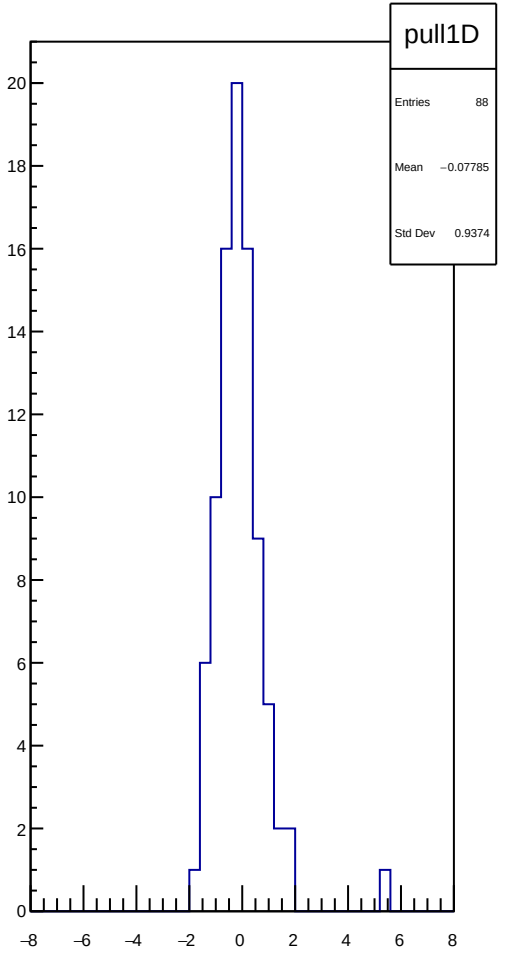

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.65 / 87
p0 −178.4 ± 4.7
−50
−100
−150
−200
−250
−300
pull
Entries 88
Mean −1282
Std Dev 1323
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

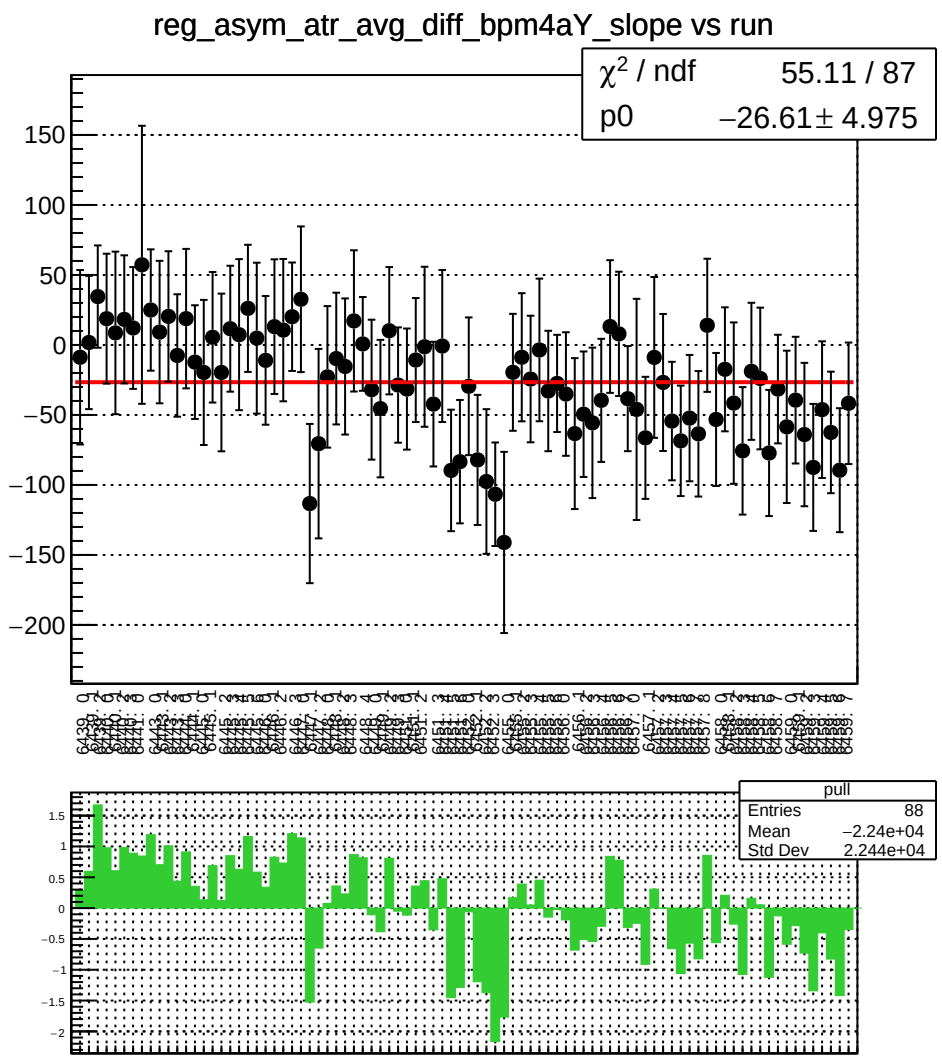

pull1D
Entries 88
Mean 0.0128
Std Dev 0.9332
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

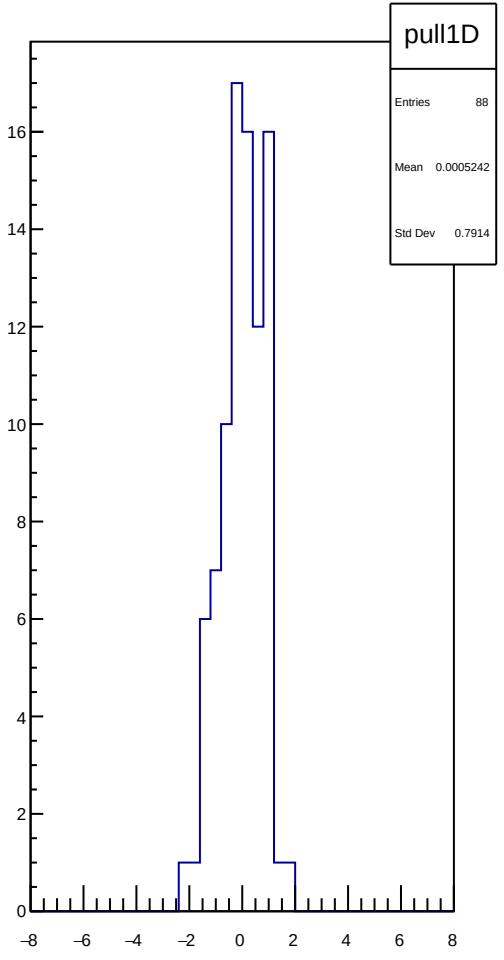

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 115.2 / 87
p0 147.6 ± 0.194
158
156
154
152
150
148
146
144
142
140
138
pull
Entries 88
Mean 951.4
Std Dev 917.8
4
3
2
1
0
−1
−2
−3

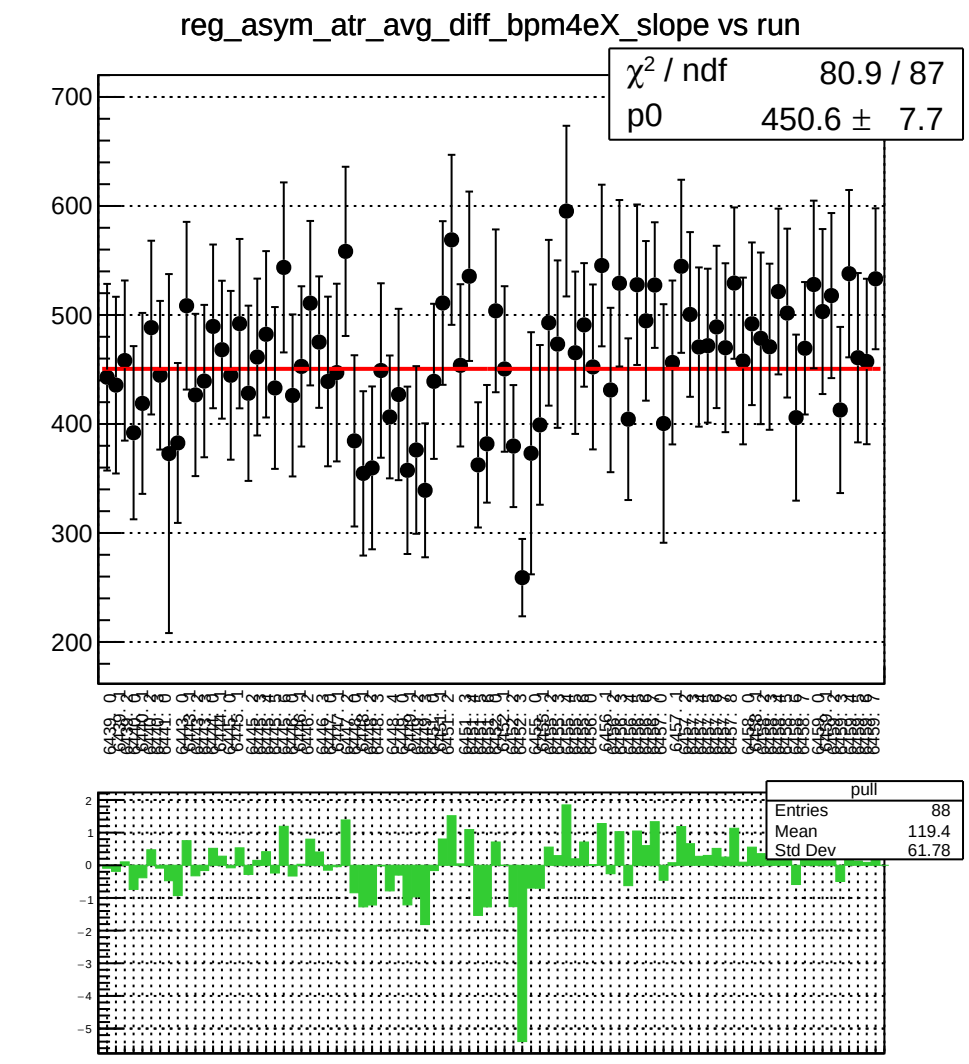

pull1D
Entries 88
Mean 0.01486
Std Dev 1.144
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

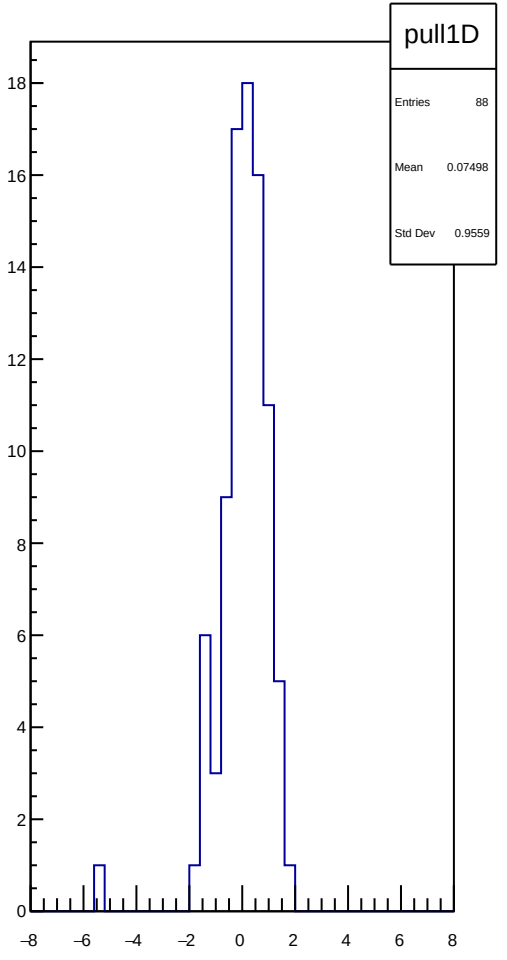

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 77.86 / 87
p0 −368.2 ± 7.09
pull
Entries 88
Mean 94.44
Std Dev 23.48

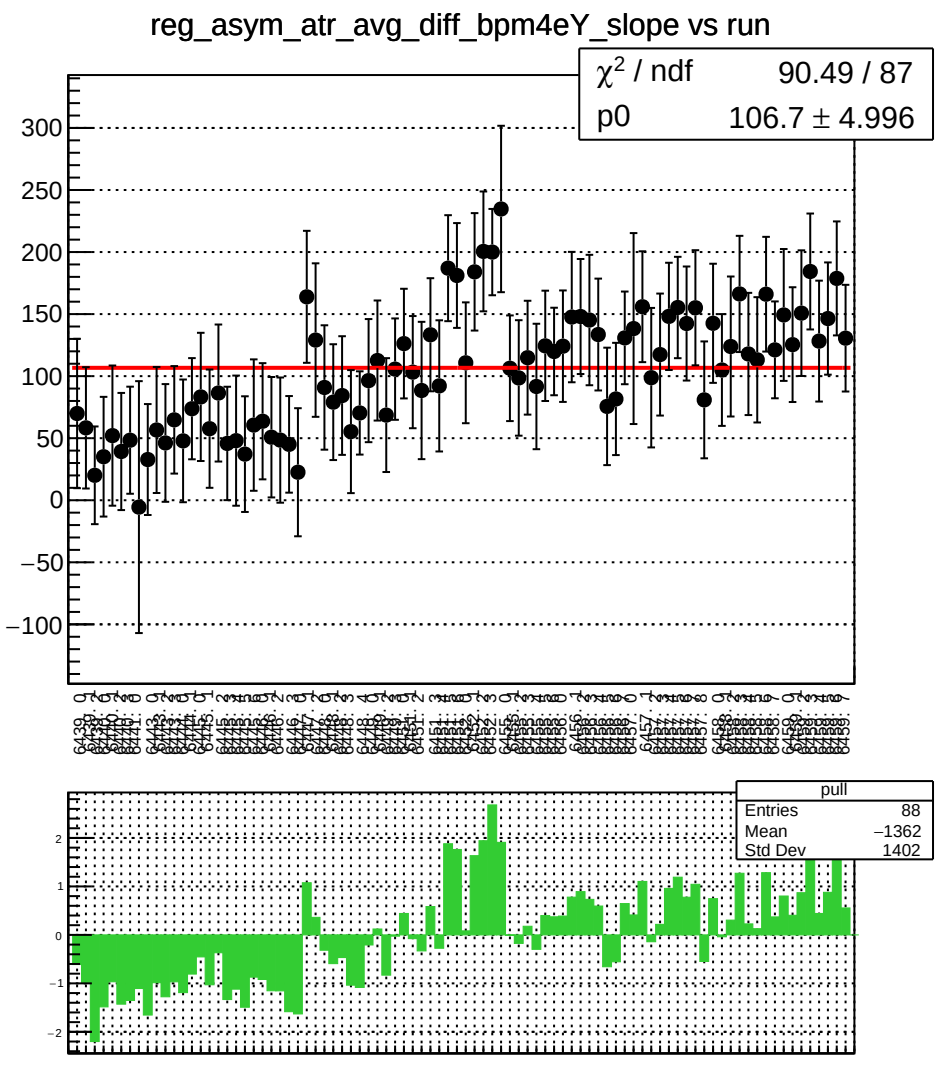

pull1D
Entries 88
Mean −0.07785
Std Dev 0.9374

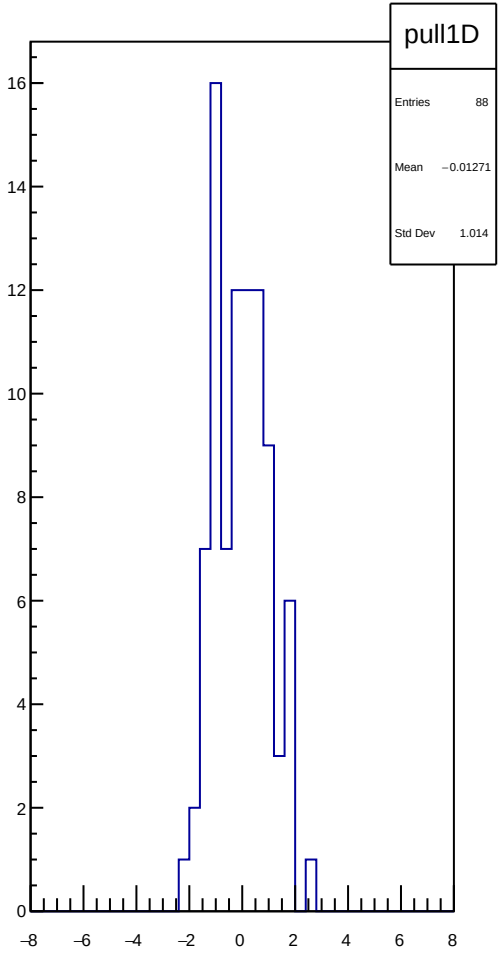

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 55.11 / 87
p0 −26.61 ± 4.975
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −2.24e+04
Std Dev 2.244e+04
1.5
1
0.5
0
−0.5
−1
−1.5
−2

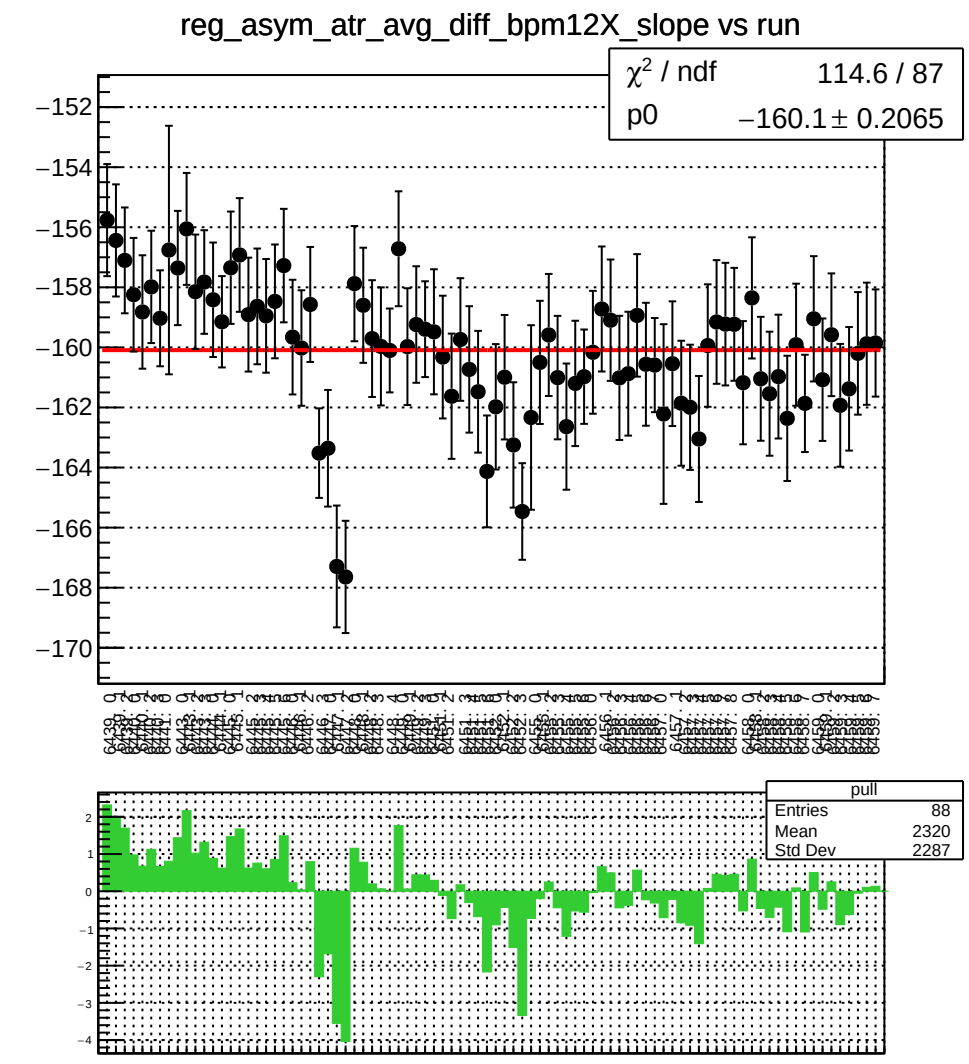

pull1D
Entries 88
Mean 0.0005242
Std Dev 0.7914
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

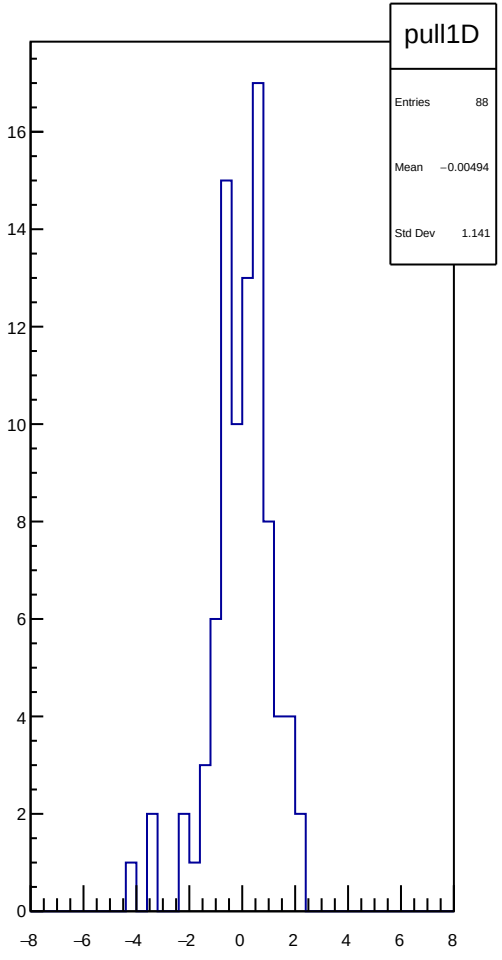

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.9 / 87
p0 450.6 ± 7.7
700
600
500
400
300
200
pull
Entries 88
Mean 119.4
Std Dev 61.78
2
1
0
−1
−2
−3
−4
−5

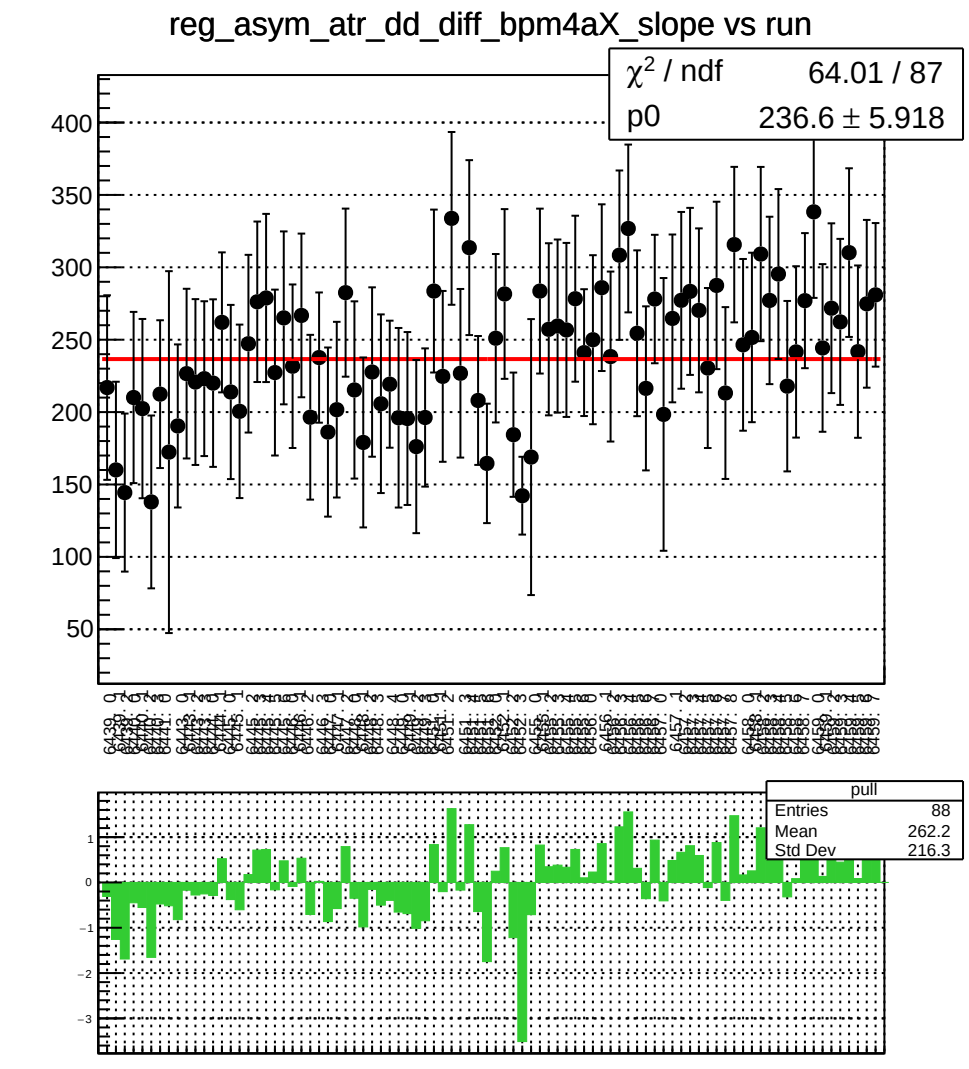

pull1D
Entries 88
Mean 0.07498
Std Dev 0.9559
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

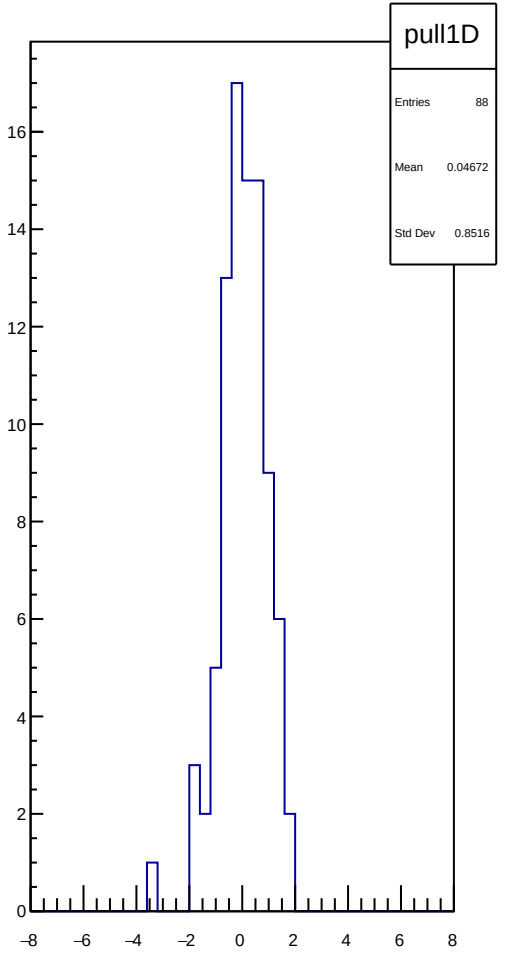

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 90.49 / 87
p0 106.7 ± 4.996
pull
Entries 88
Mean −1362
Std Dev 1402

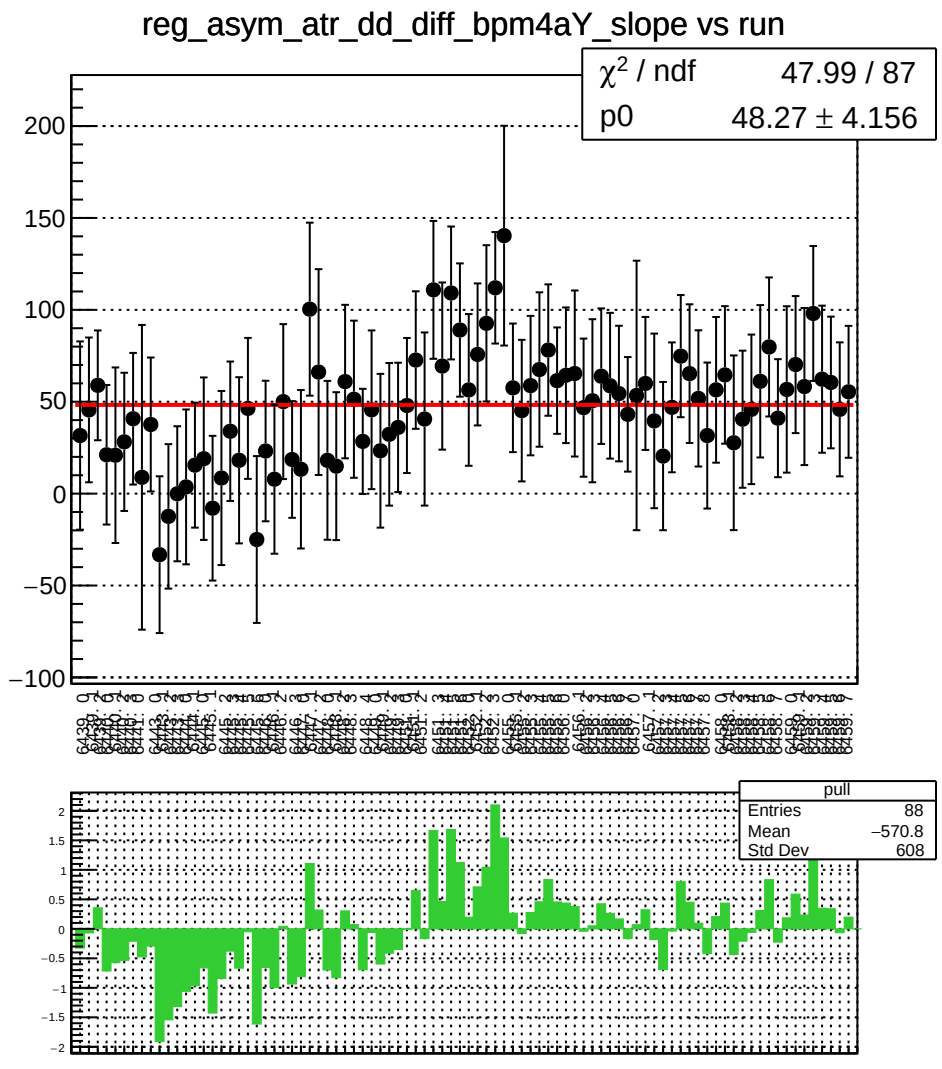

pull1D
Entries 88
Mean −0.01271
Std Dev 1.014

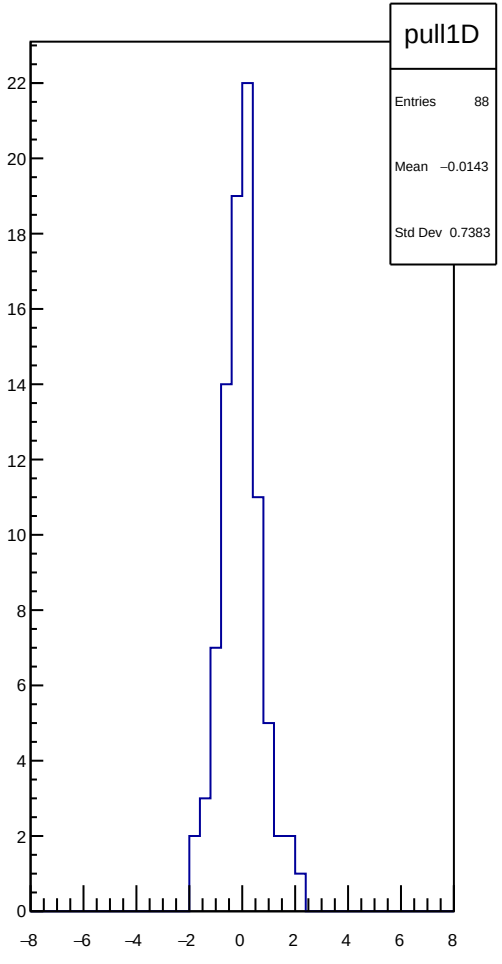

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 114.6 / 87
p0 −160.1 ± 0.2065
pull
Entries 88
Mean 2320
Std Dev 2287

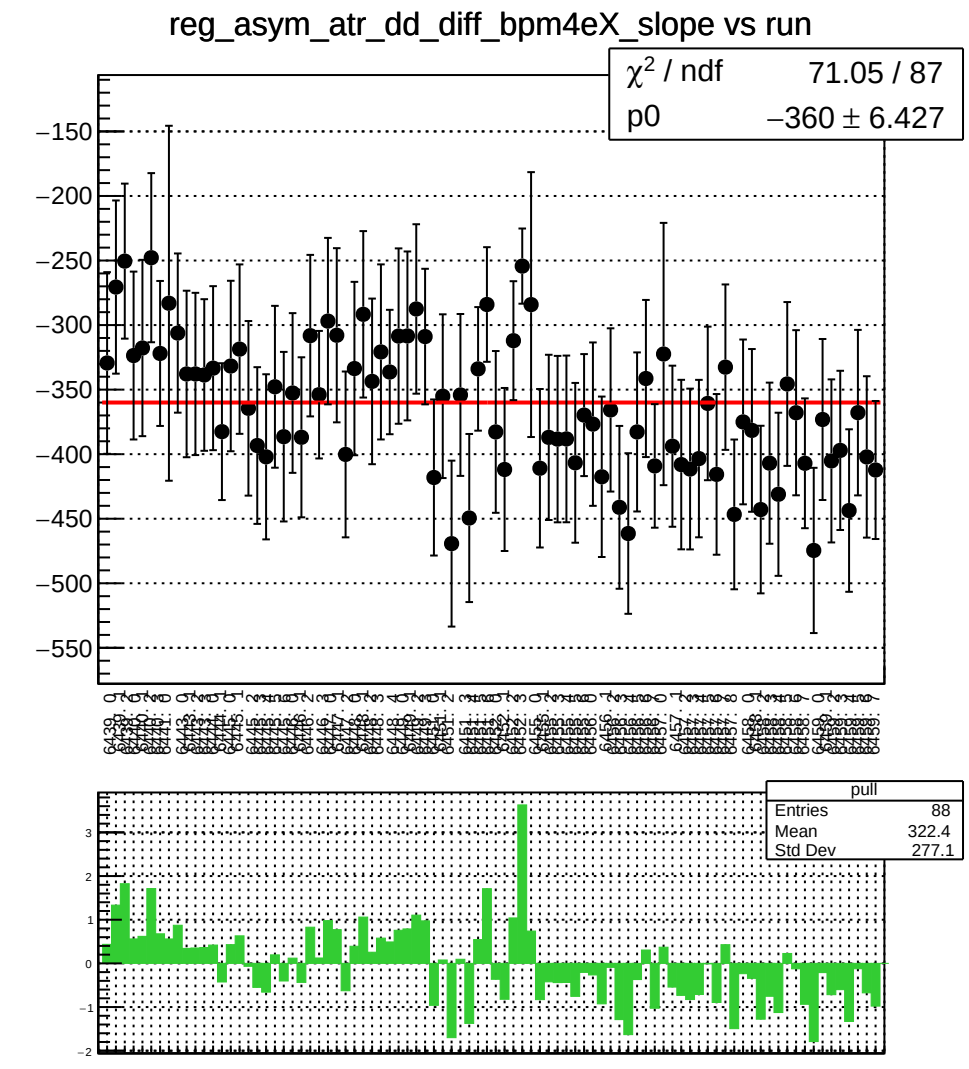

pull1D
Entries 88
Mean −0.00494
Std Dev 1.141

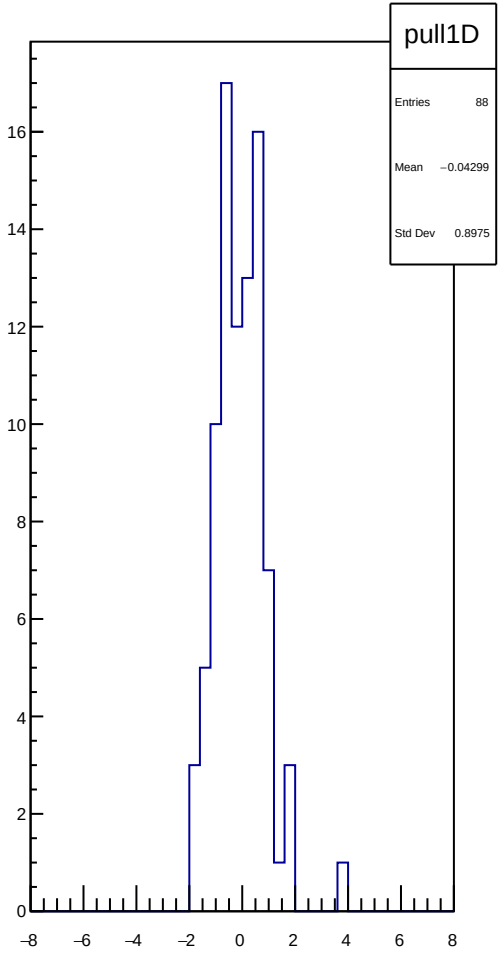

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 64.01 / 87
p0 236.6 ± 5.918
400
350
300
250
200
150
100
50
pull
Entries 88
Mean 262.2
Std Dev 216.3
1
0
−1
−2
−3

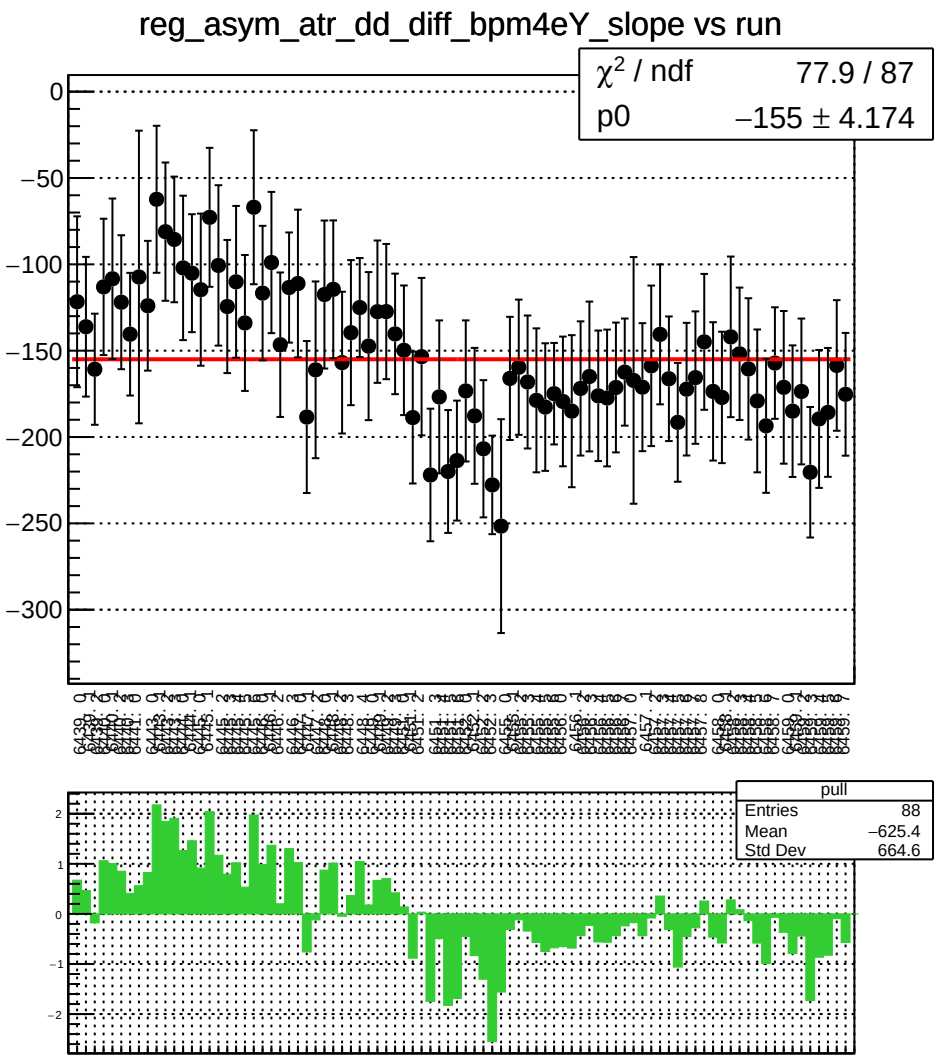

pull1D
Entries 88
Mean 0.04672
Std Dev 0.8516
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

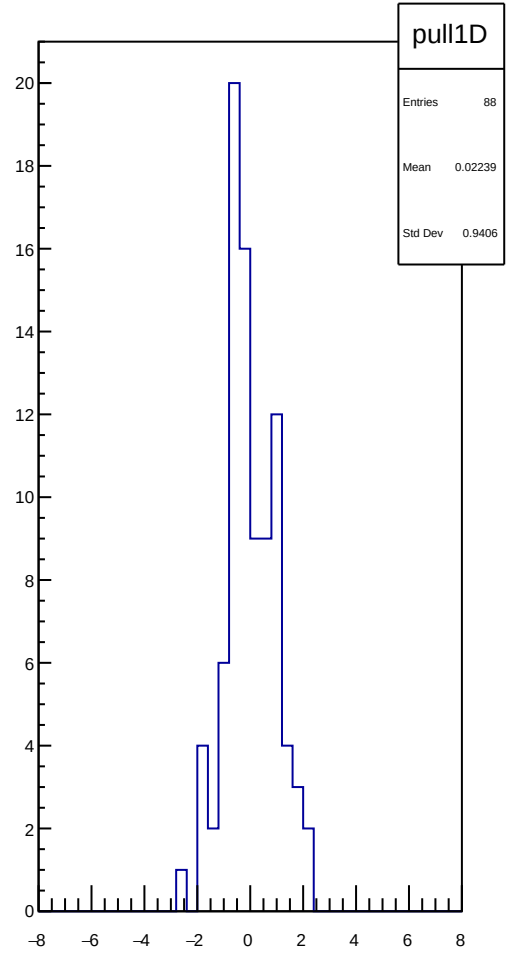

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.99 / 87
p0 48.27 ± 4.156
pull
Entries 88
Mean −570.8
Std Dev 608

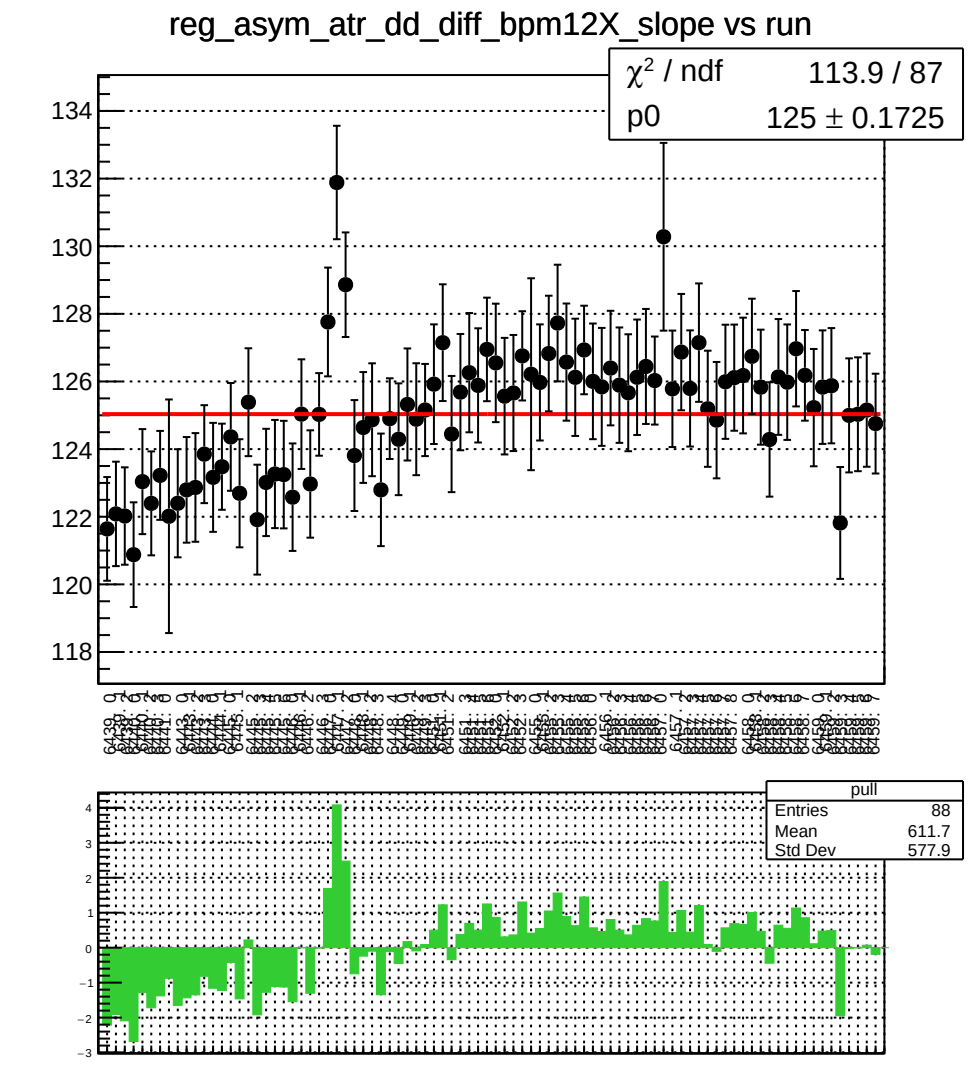

pull1D
Entries 88
Mean −0.0143
Std Dev 0.7383

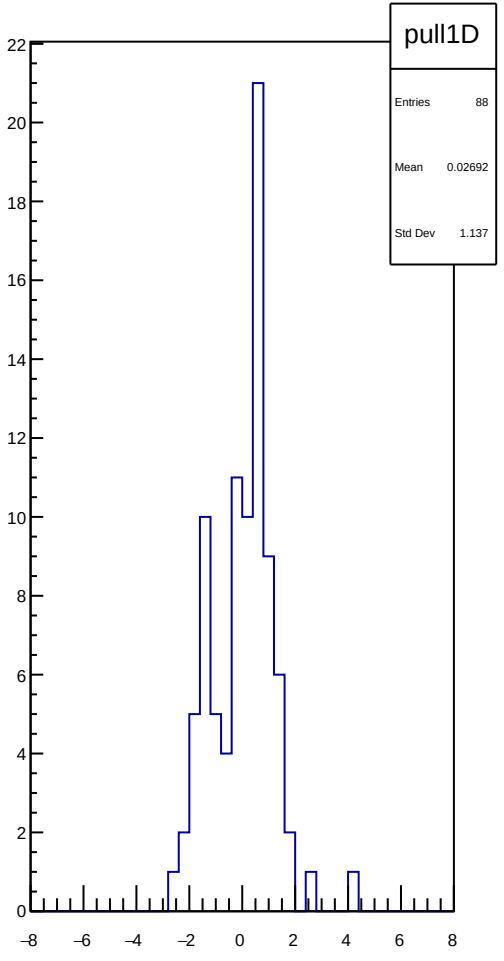

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.05 / 87
p0 −360 ± 6.427
pull
Entries 88
Mean 322.4
Std Dev 277.1

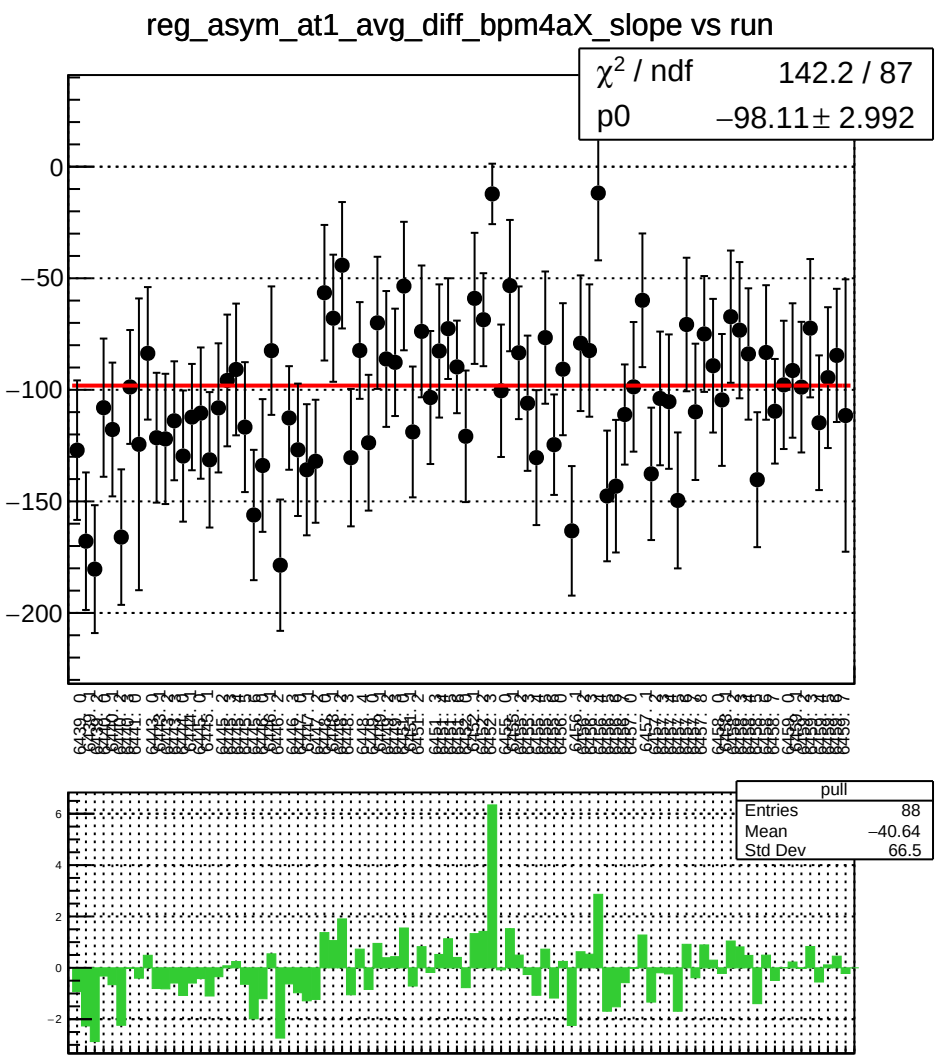

pull1D
Entries 88
Mean −0.04299
Std Dev 0.8975

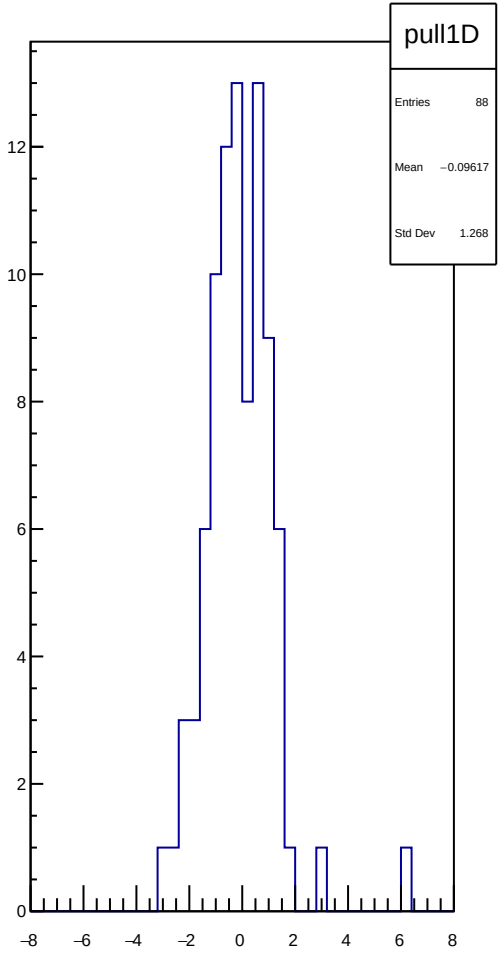

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.9 / 87
p0 −155 ± 4.174
0
−50
−100
−150
−200
−250
−300
pull
Entries 88
Mean −625.4
Std Dev 664.6
2
1
0
−1
−2

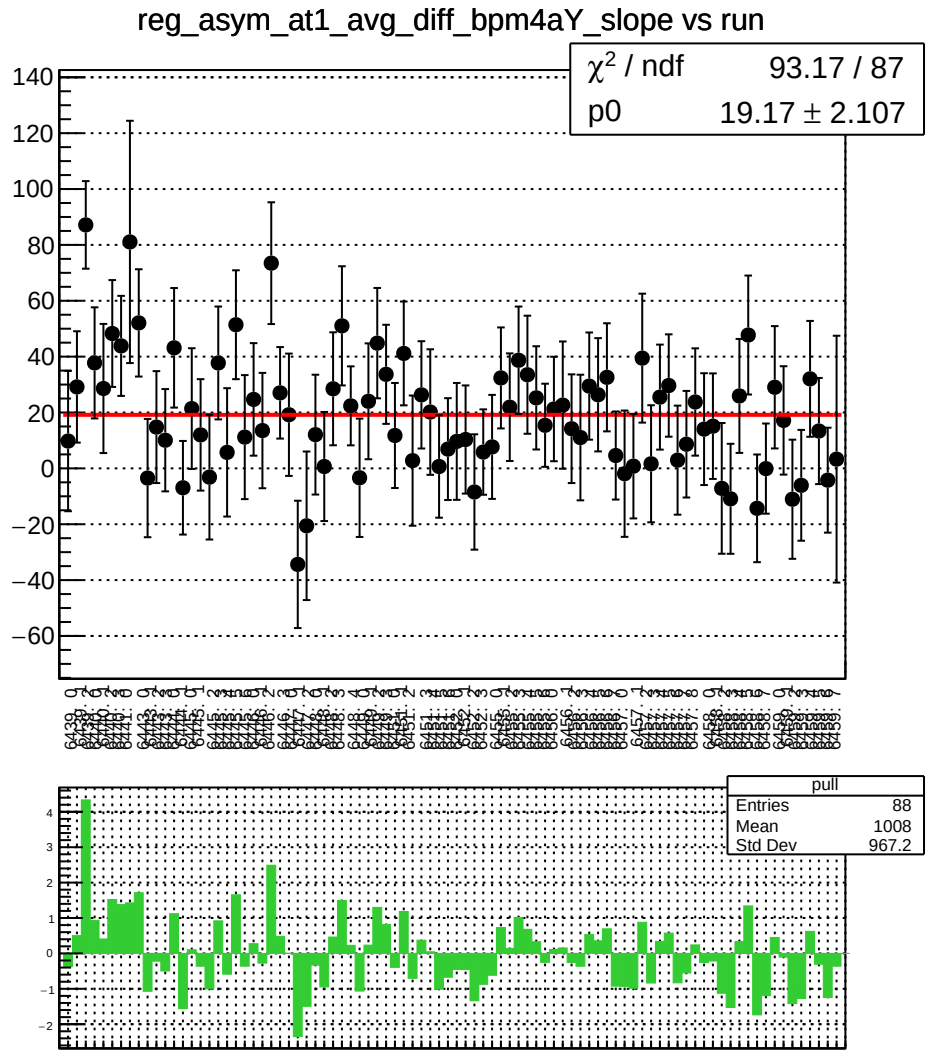

pull1D
Entries 88
Mean 0.02239
Std Dev 0.9406
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

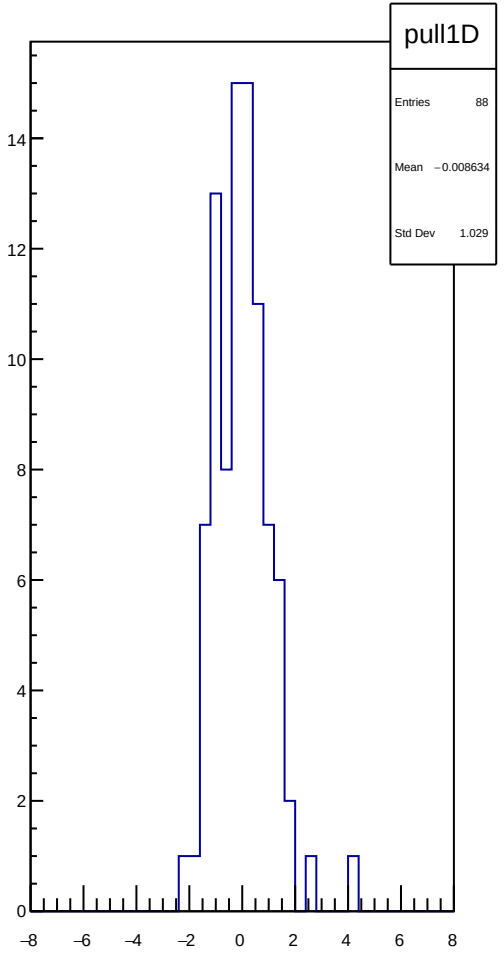

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 113.9 / 87
p0 125 ± 0.1725
pull
Entries 88
Mean 611.7
Std Dev 577.9

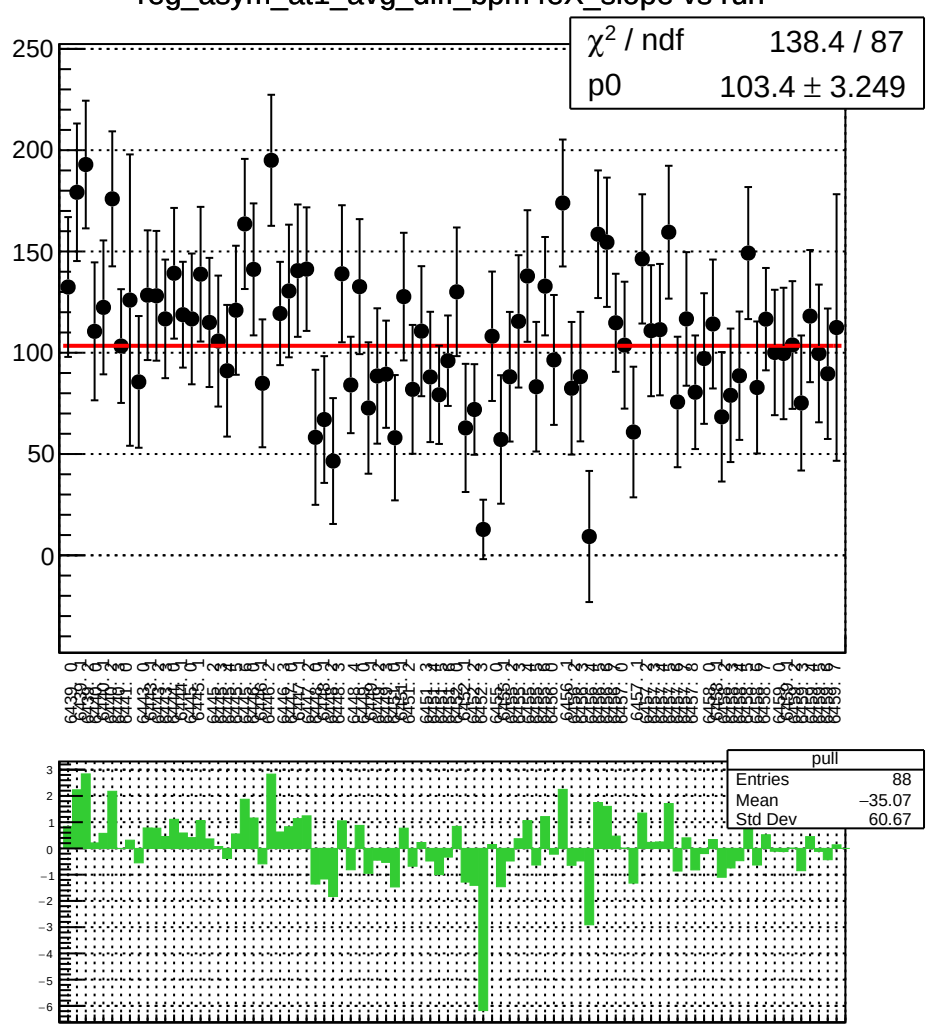

pull1D
Entries 88
Mean 0.02692
Std Dev 1.137

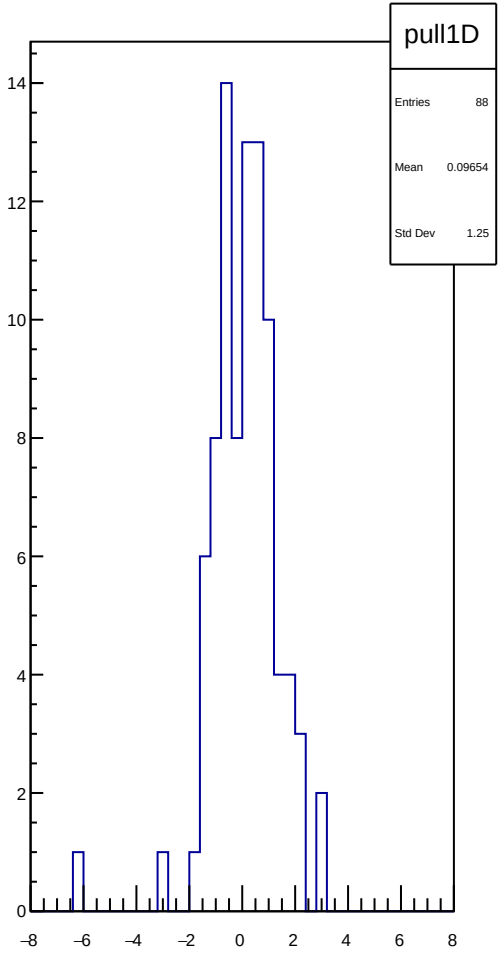

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 142.2 / 87
p0 −98.11 ± 2.992
0
−50
−100
−150
−200
pull
Entries 88
Mean −40.64
Std Dev 66.5
6
4
2
0
−2

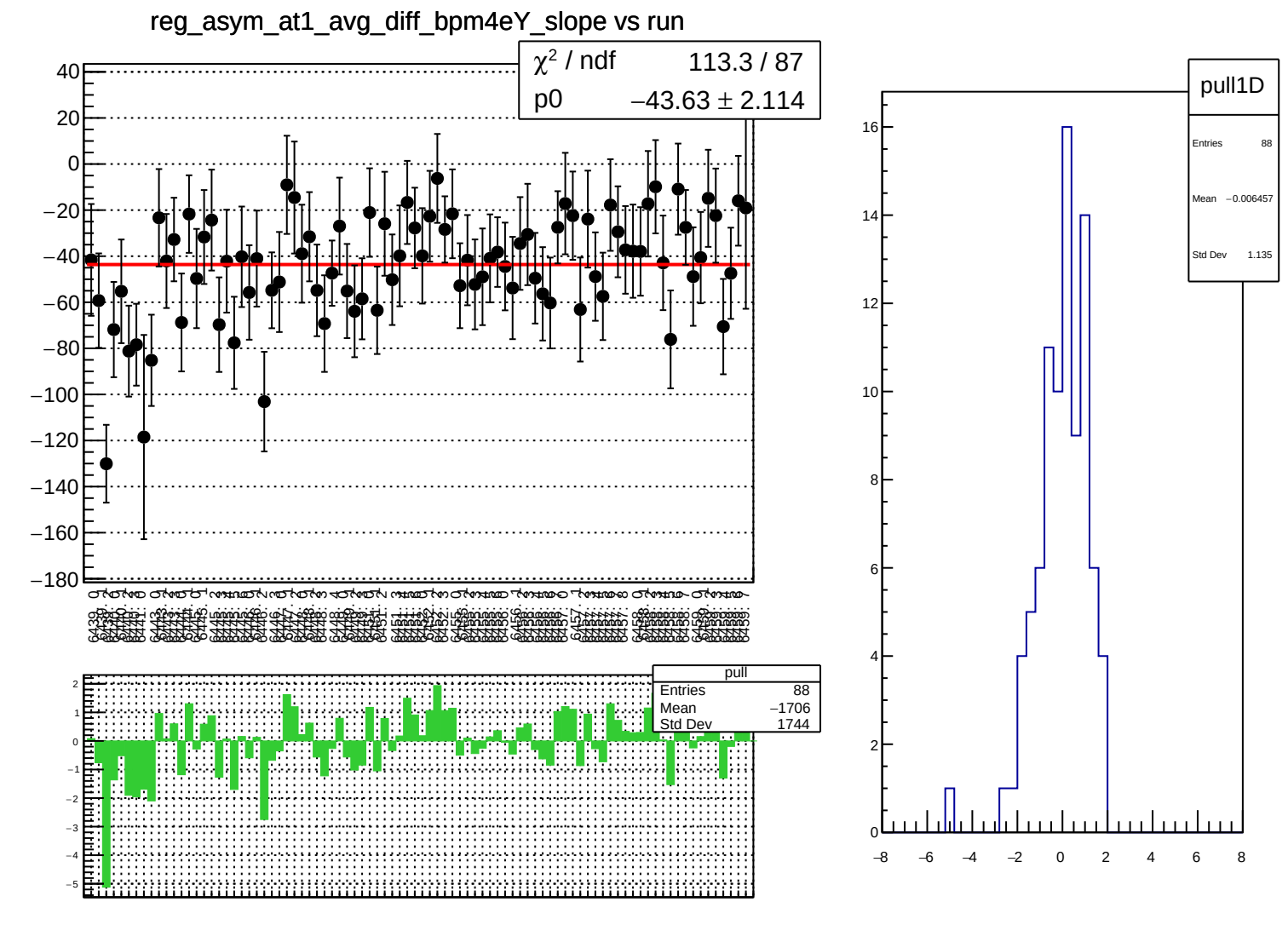

pull1D
Entries 88
Mean −0.09617
Std Dev 1.268
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

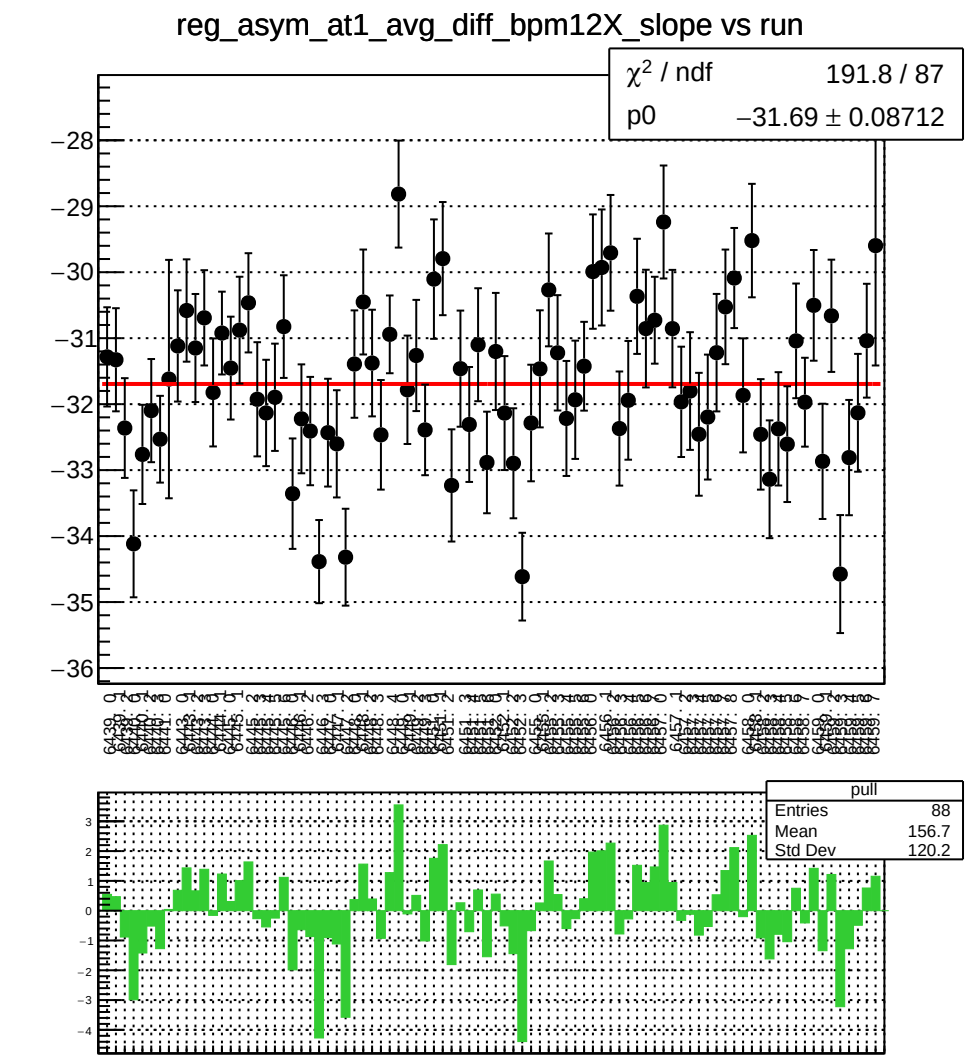

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 93.17 / 87
p0 19.17 ± 2.107
pull
Entries 88
Mean 1008
Std Dev 967.2

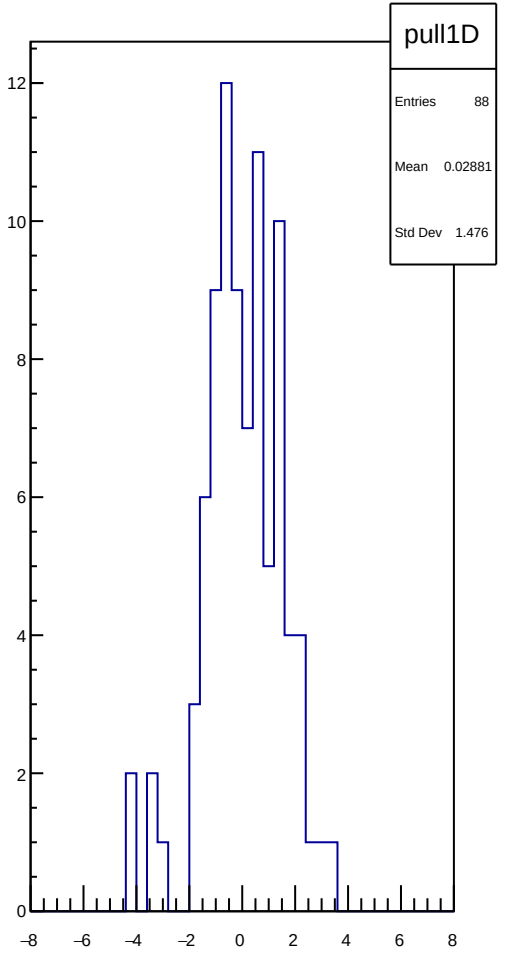

pull1D
Entries 88
Mean −0.008634
Std Dev 1.029

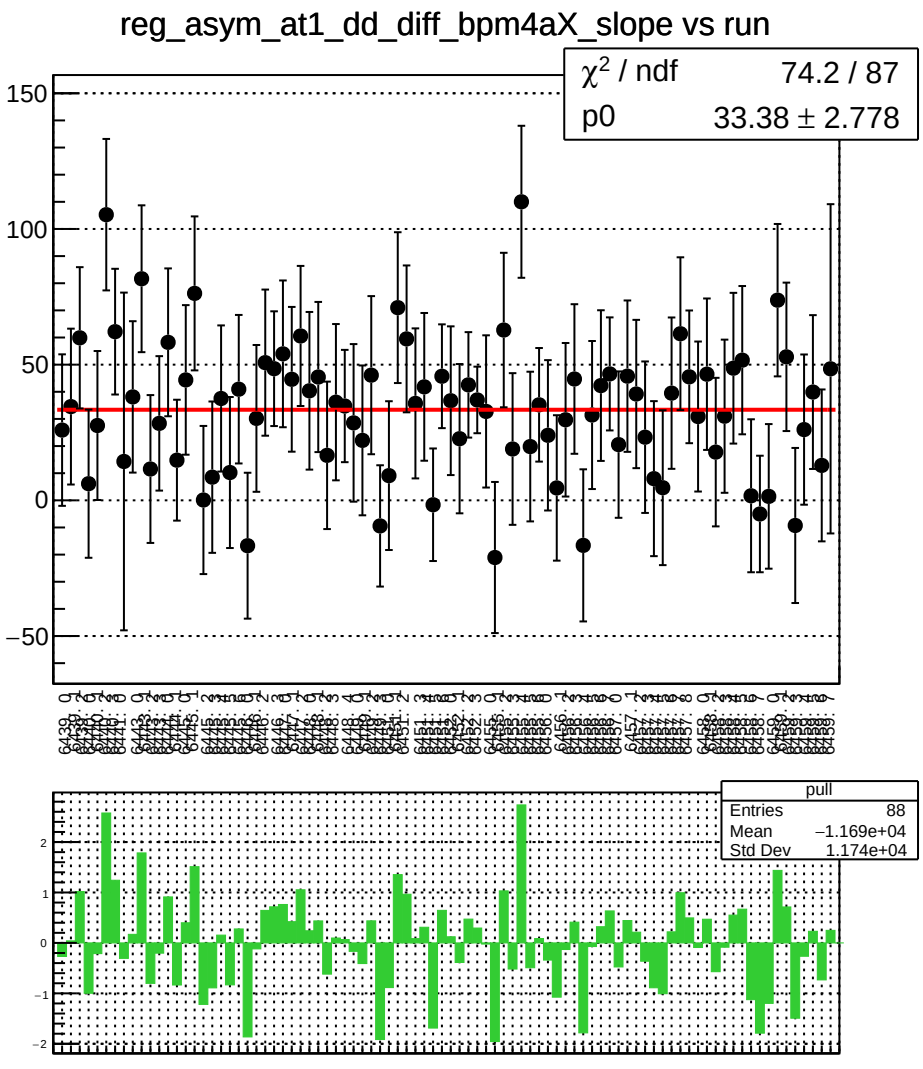

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 138.4 / 87
p0 103.4 ± 3.249
pull
Entries 88
Mean −35.07
Std Dev 60.67

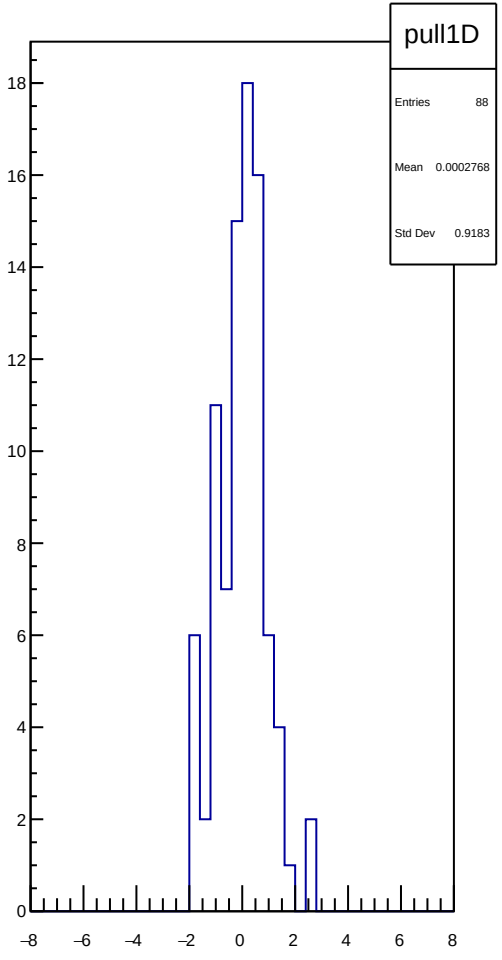

pull1D
Entries 88
Mean 0.09654
Std Dev 1.25

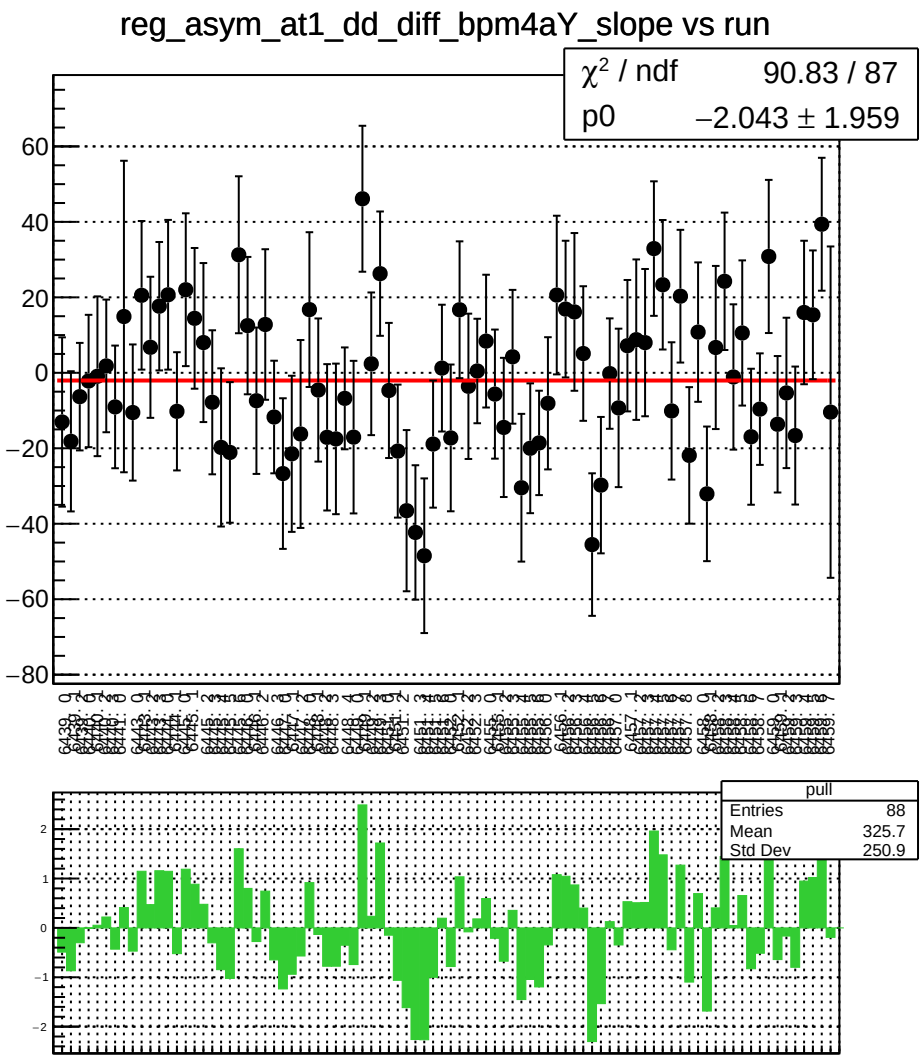

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 113.3 / 87
p0 −43.63 ± 2.114
pull
Entries 88
Mean −1706
Std Dev 1744
pull1D
Entries 88
Mean −0.006457
Std Dev 1.135

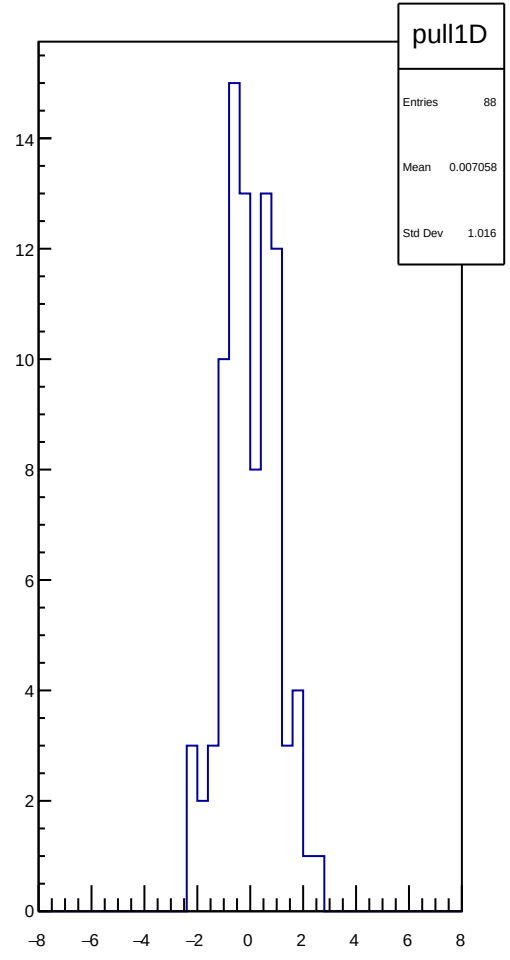

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 191.8 / 87
p0 −31.69 ± 0.08712
pull
Entries 88
Mean 156.7
Std Dev 120.2

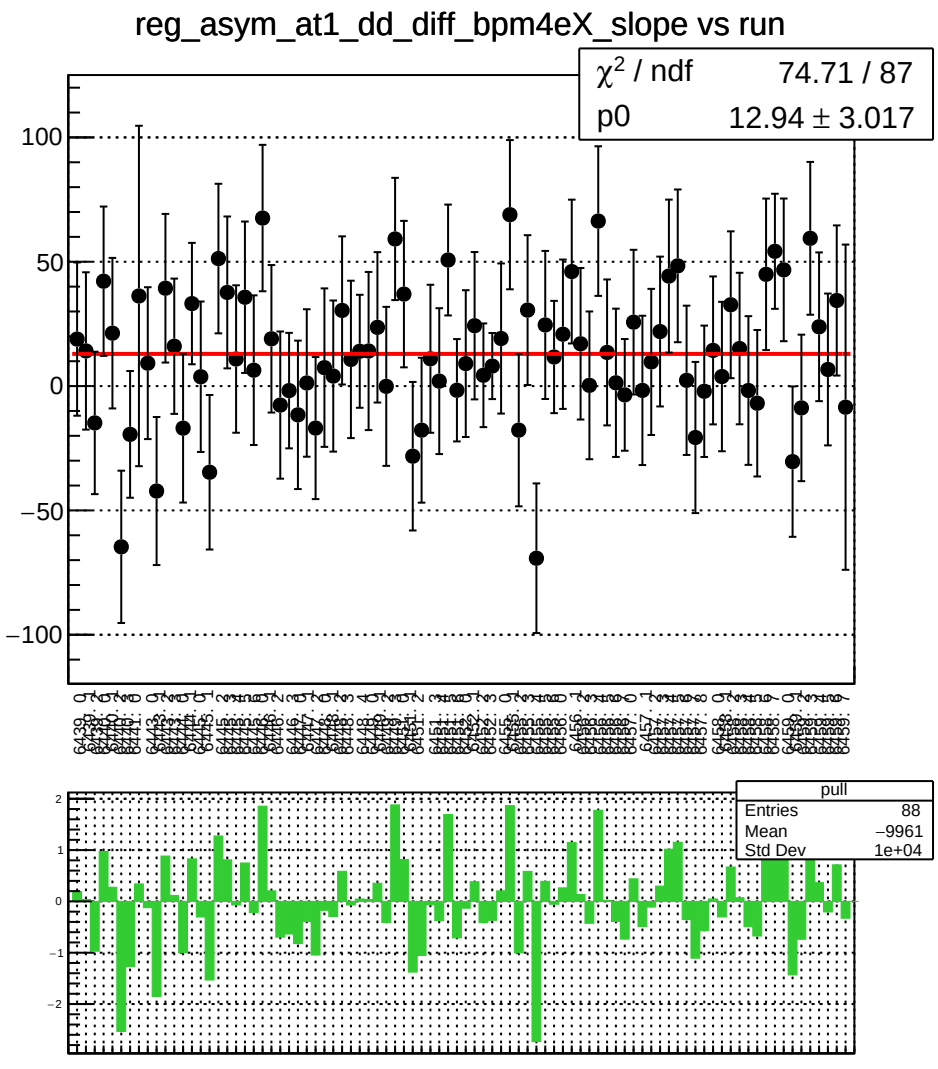

pull1D
Entries 88
Mean 0.02881
Std Dev 1.476

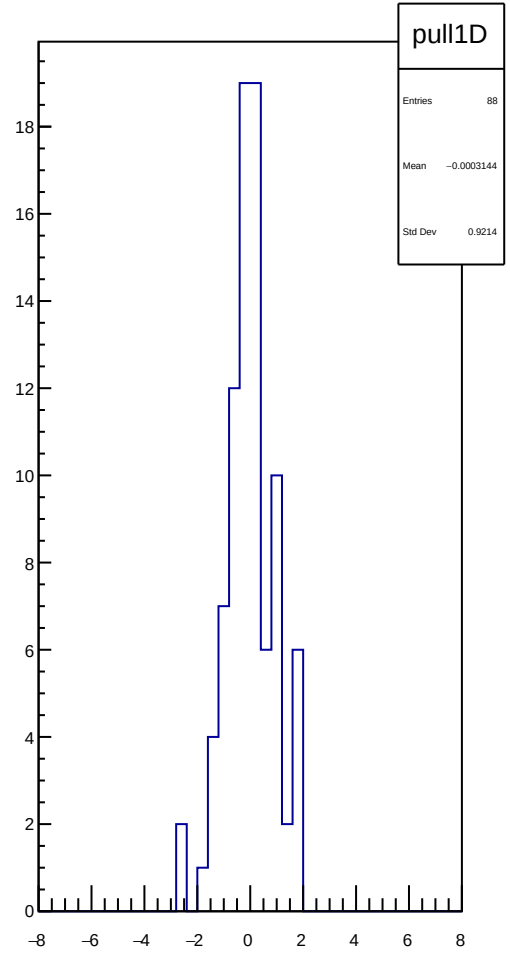

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 74.2 / 87
p0 33.38 ± 2.778
150
100
50
0
−50
pull
Entries 88
Mean −1.169e+04
Std Dev 1.174e+04
2
1
0
−1
−2

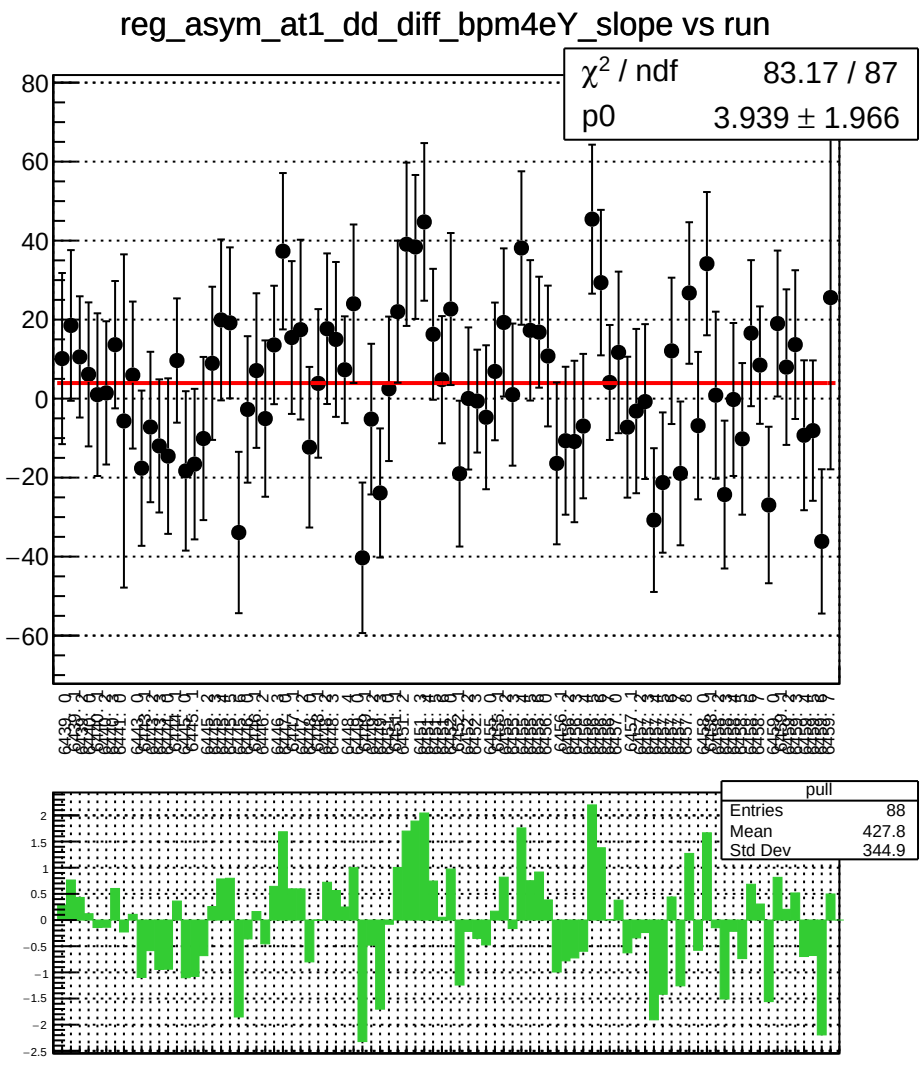

pull1D
Entries 88
Mean 0.0002768
Std Dev 0.9183
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

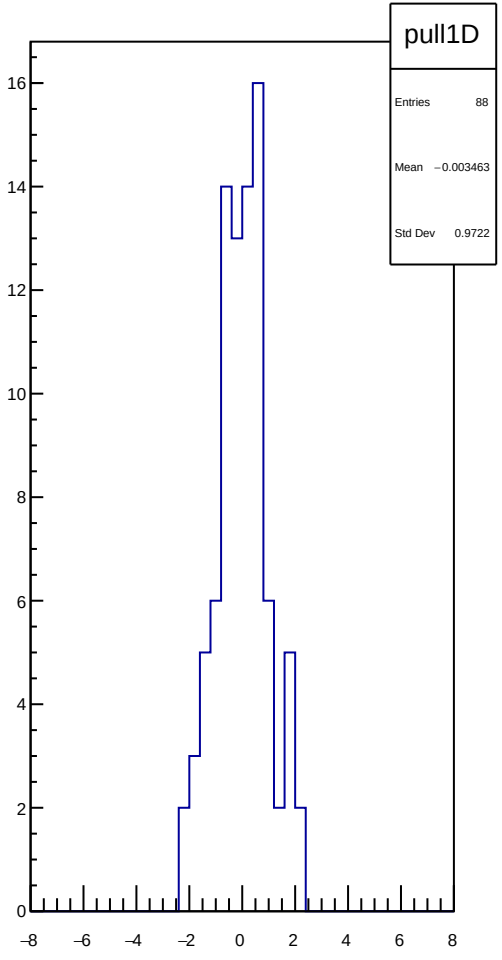

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 90.83 / 87
p0 −2.043 ± 1.959
pull
Entries 88
Mean 325.7
Std Dev 250.9

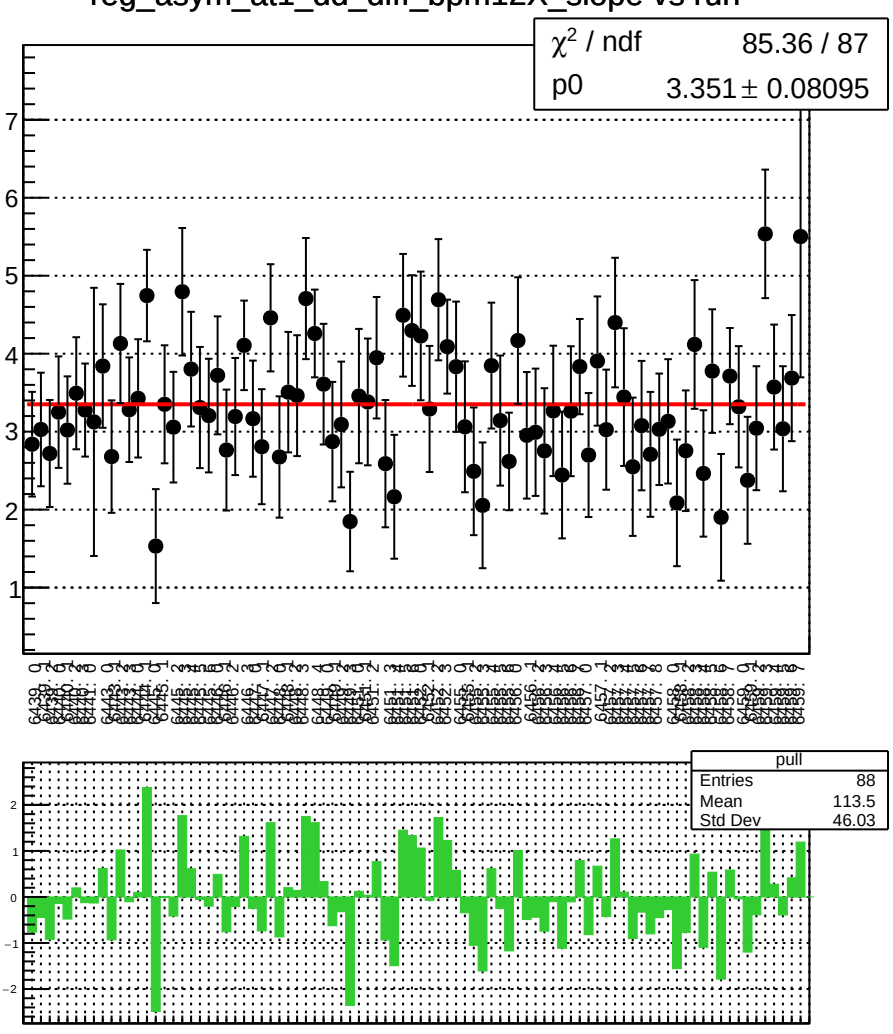

pull1D
Entries 88
Mean 0.007058
Std Dev 1.016

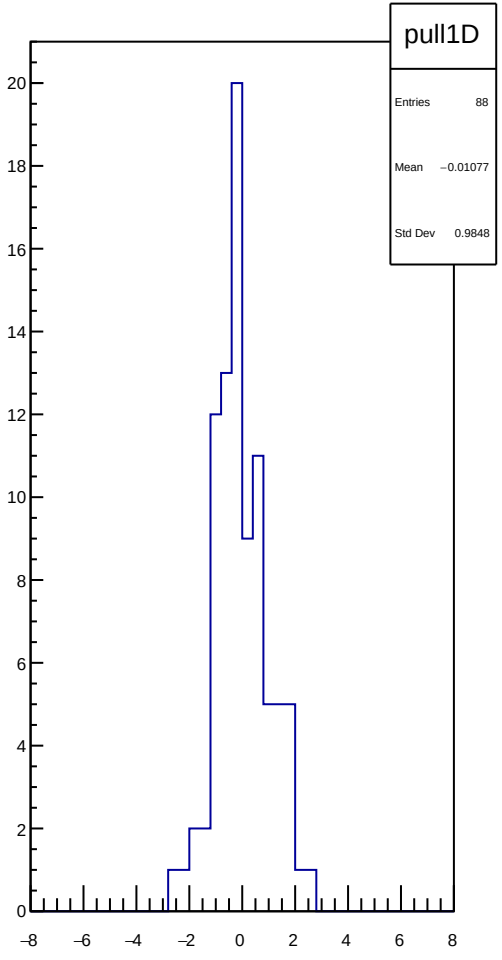

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.71 / 87
p0 12.94 ± 3.017
100
50
0
−50
−100
pull
Entries 88
Mean −9961
Std Dev 1e+04
2
1
0
−1
−2

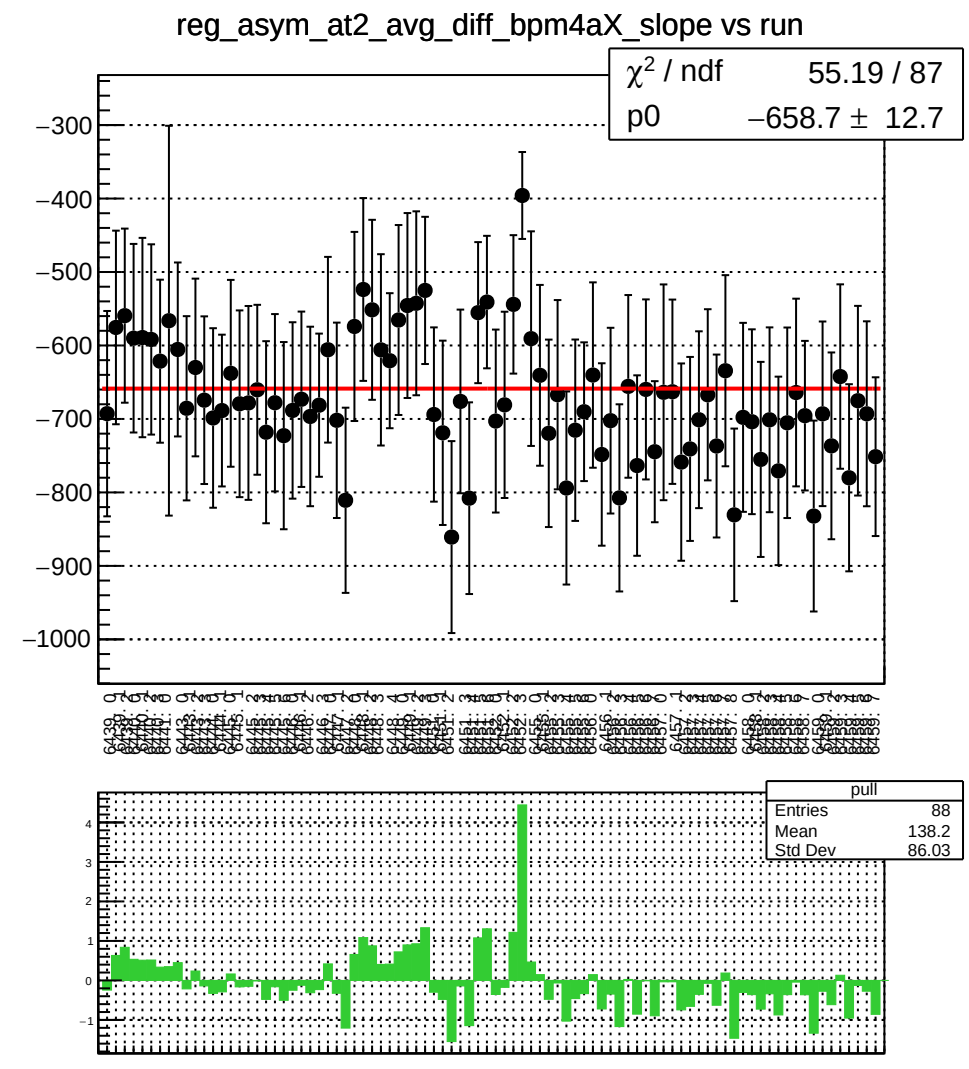

pull1D
Entries 88
Mean −0.0003144
Std Dev 0.9214
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

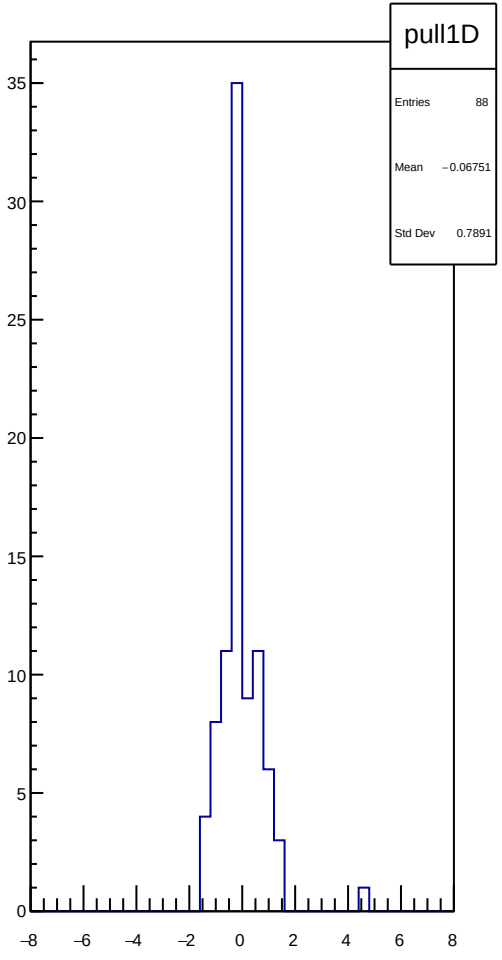

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.17 / 87
p0 3.939 ± 1.966
pull
Entries 88
Mean 427.8
Std Dev 344.9

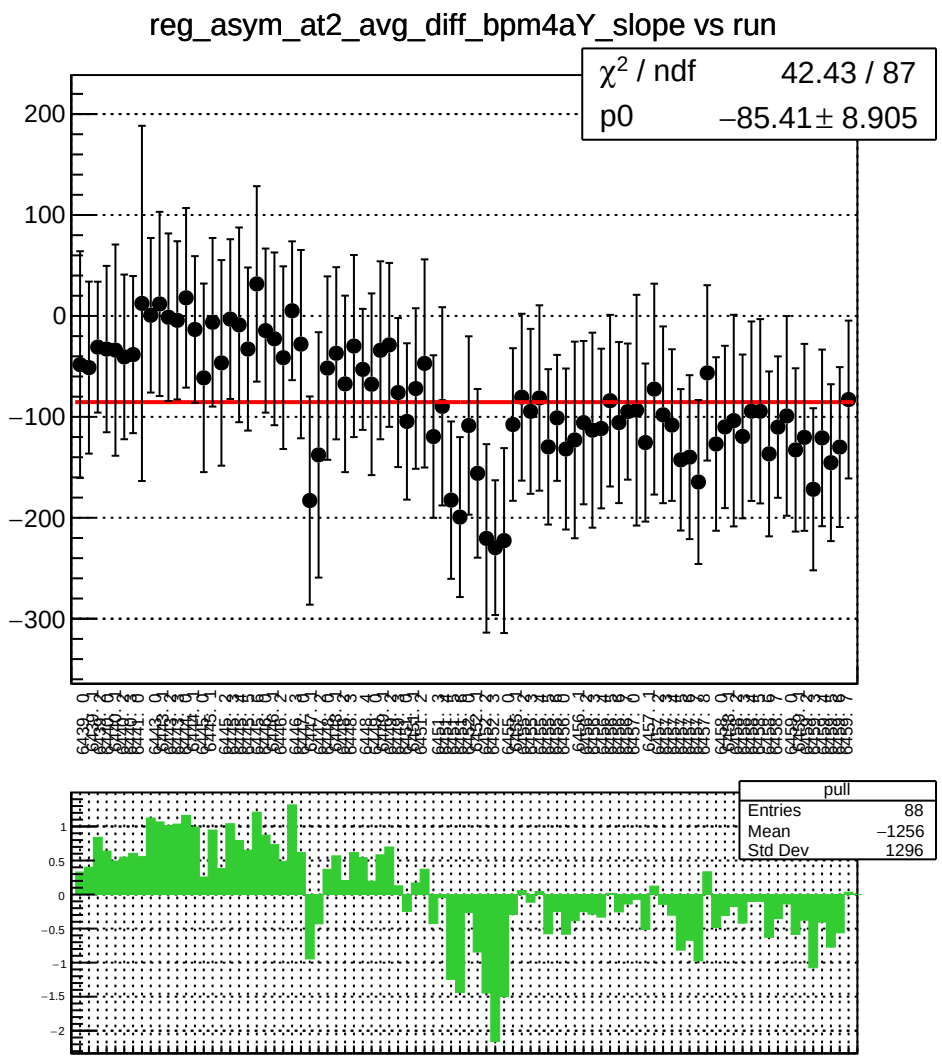

pull1D
Entries 88
Mean −0.003463
Std Dev 0.9722

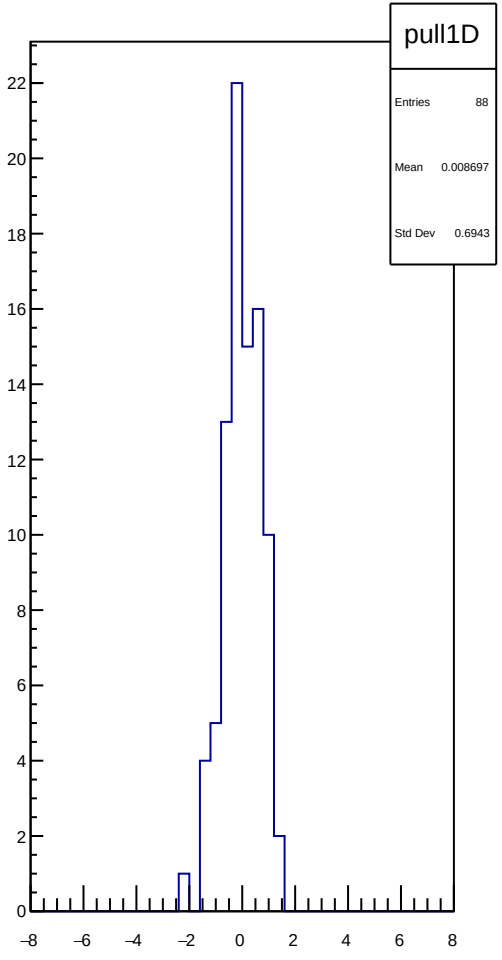

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 85.36 / 87
p0 3.351 ± 0.08095
pull
Entries 88
Mean 113.5
Std Dev 46.03

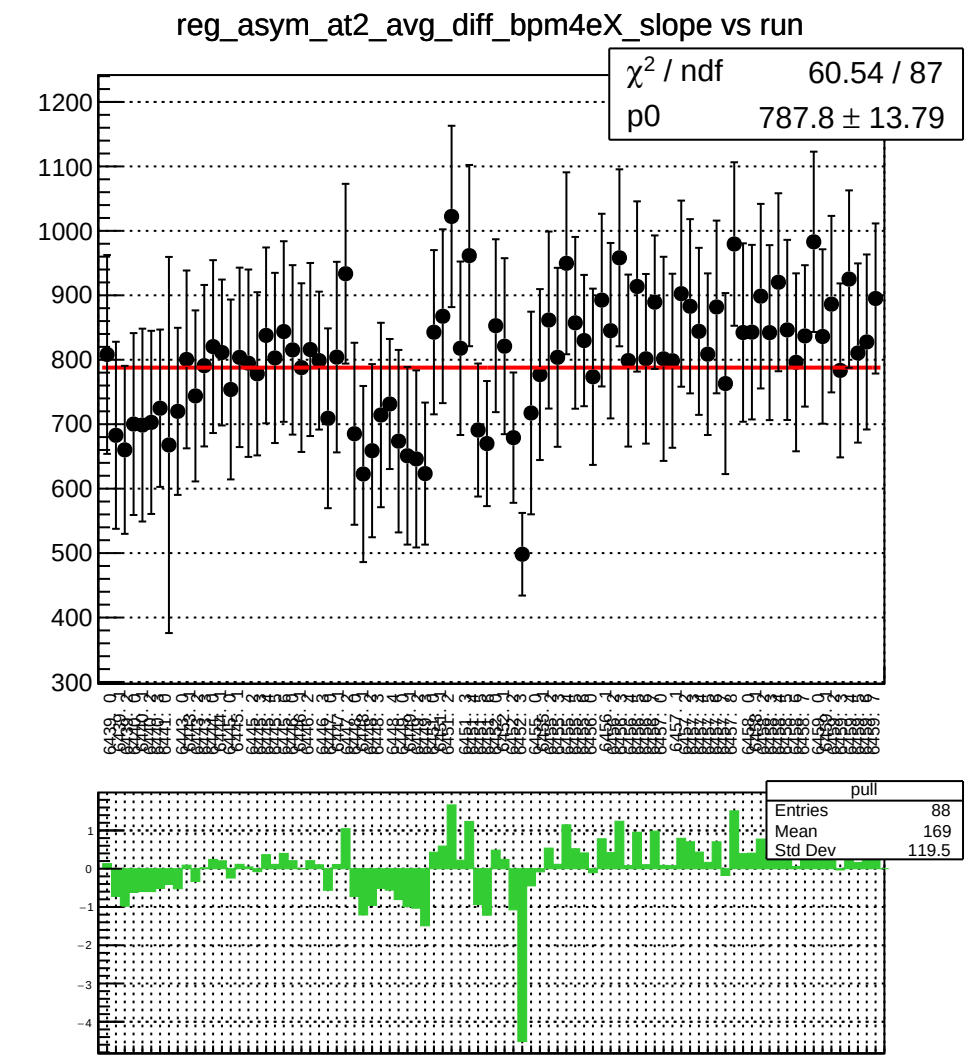

pull1D
Entries 88
Mean −0.01077
Std Dev 0.9848

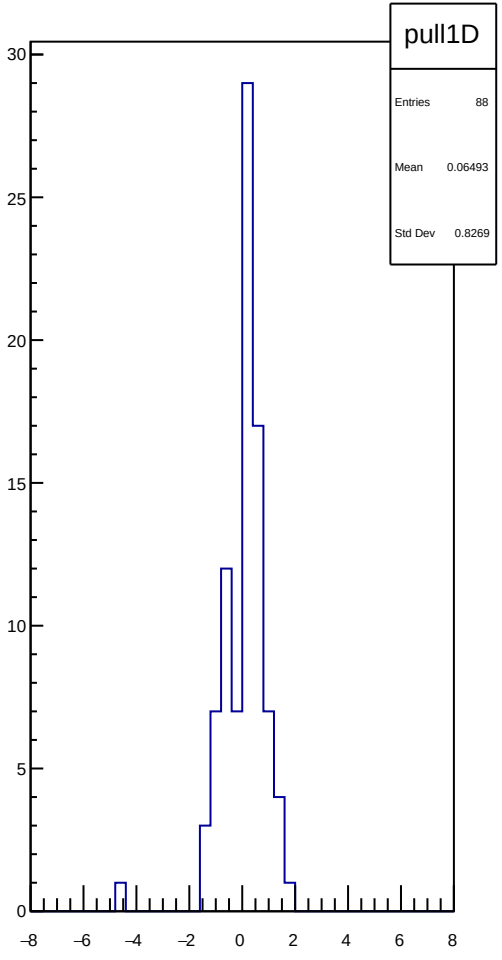

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 55.19 / 87
p0 −658.7 ± 12.7
pull
Entries 88
Mean 138.2
Std Dev 86.03

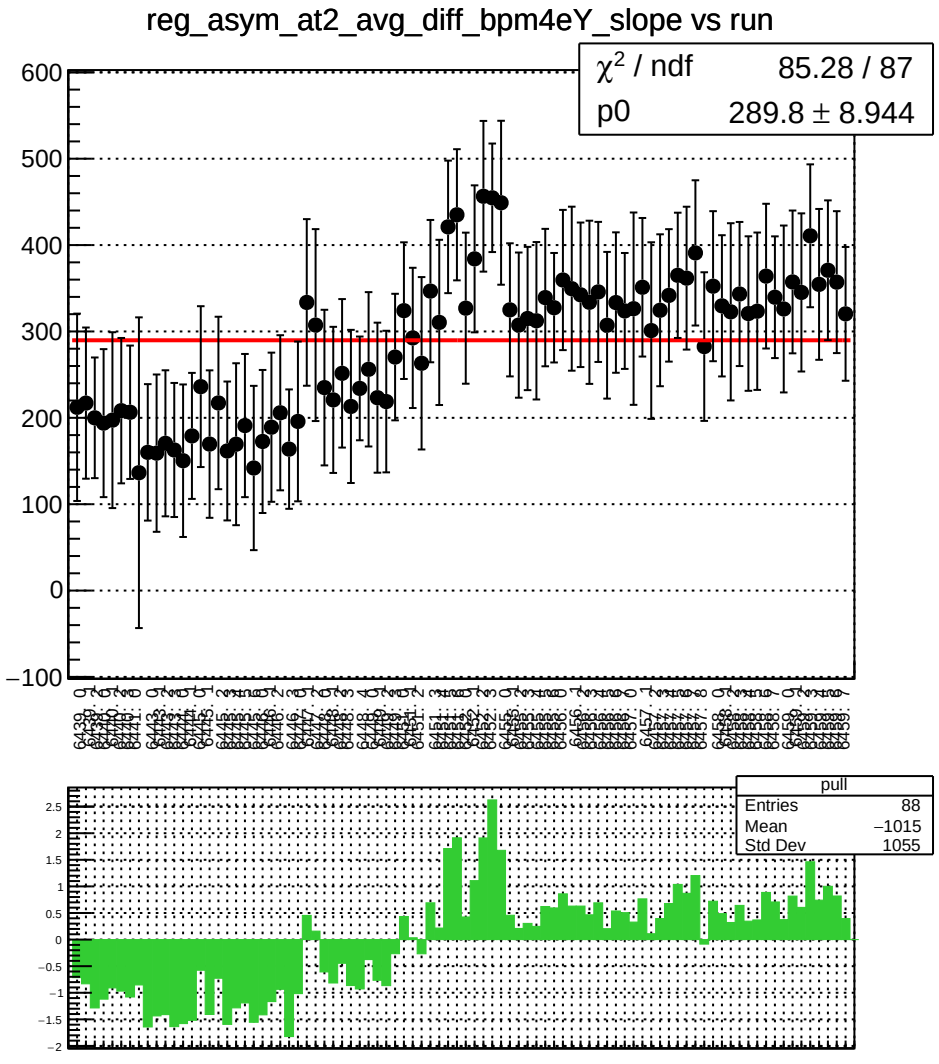

pull1D
Entries 88
Mean −0.06751
Std Dev 0.7891

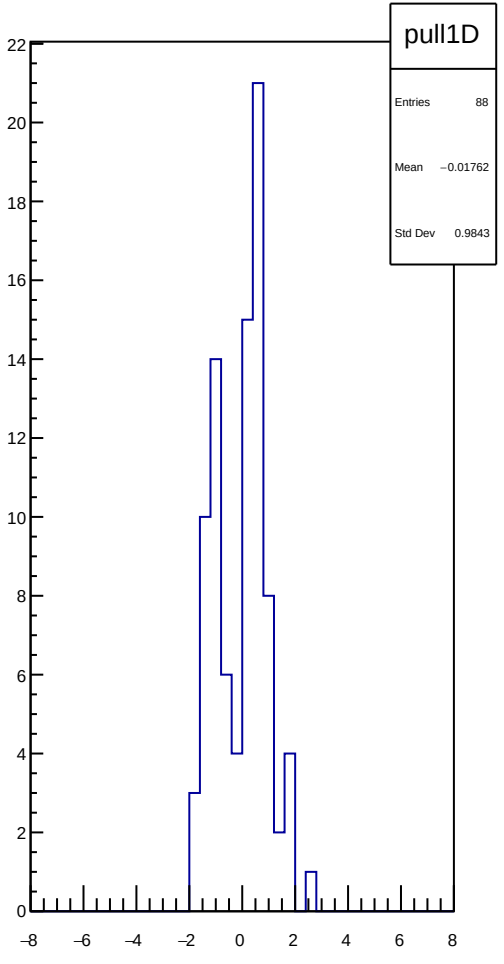

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 42.43 / 87
p0 −85.41 ± 8.905
200
100
0
−100
−200
−300
pull
Entries 88
Mean −1256
Std Dev 1296
1
0.5
0
−0.5
−1
−1.5
−2

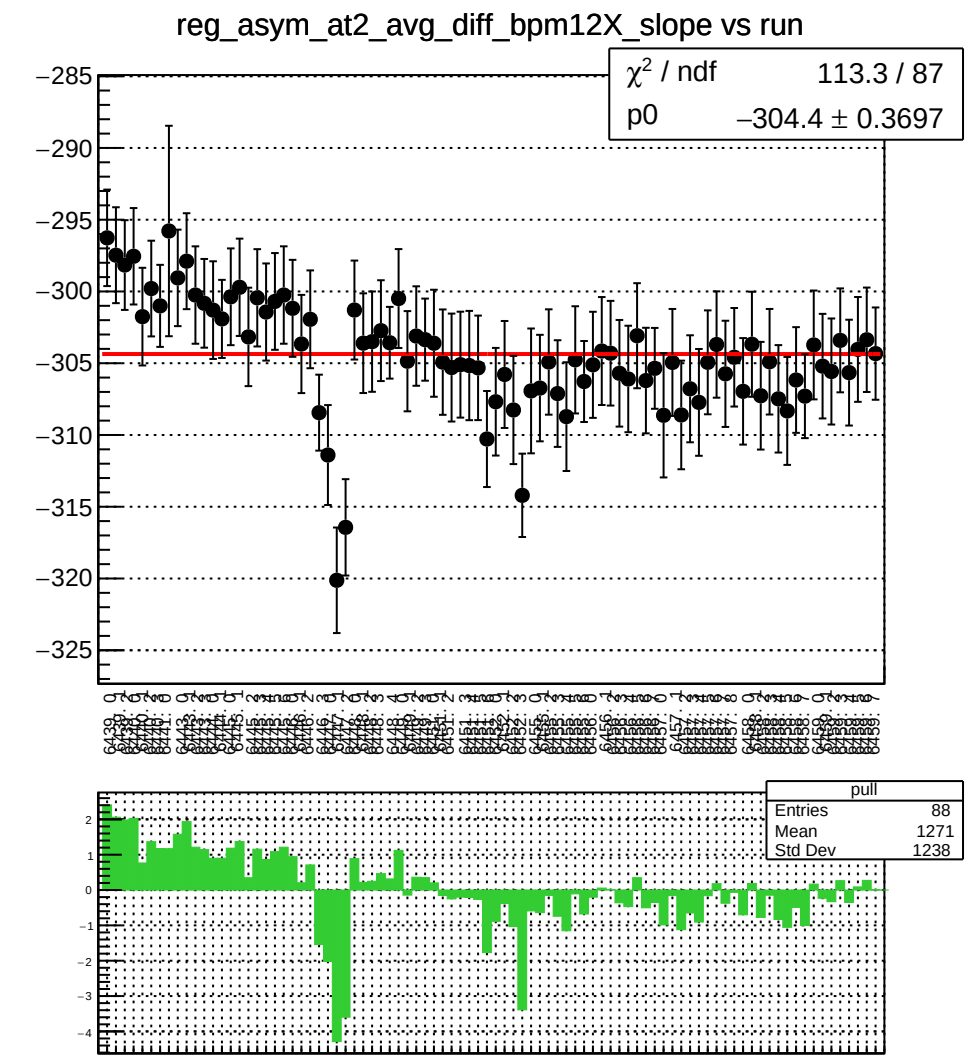

pull1D
Entries 88
Mean 0.008697
Std Dev 0.6943
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

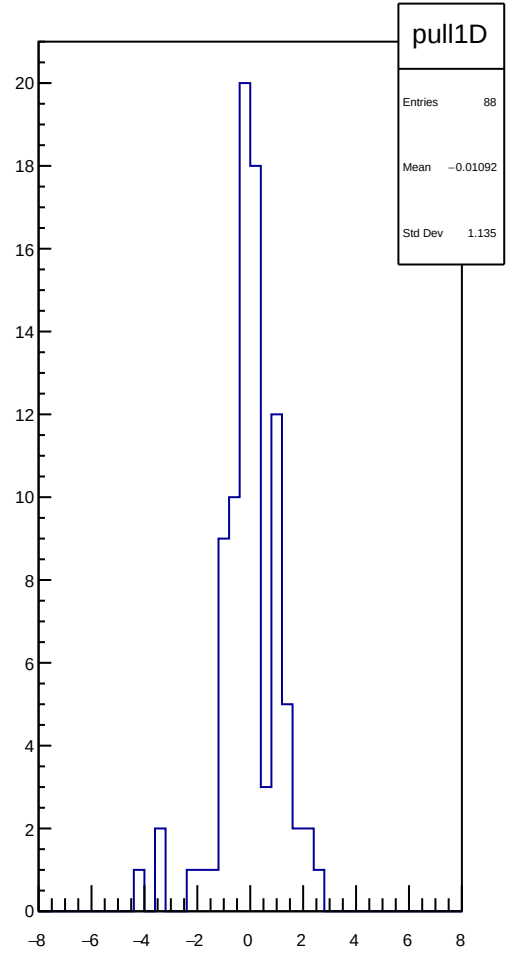

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.54 / 87
p0 787.8 ± 13.79
pull
Entries 88
Mean 169
Std Dev 119.5

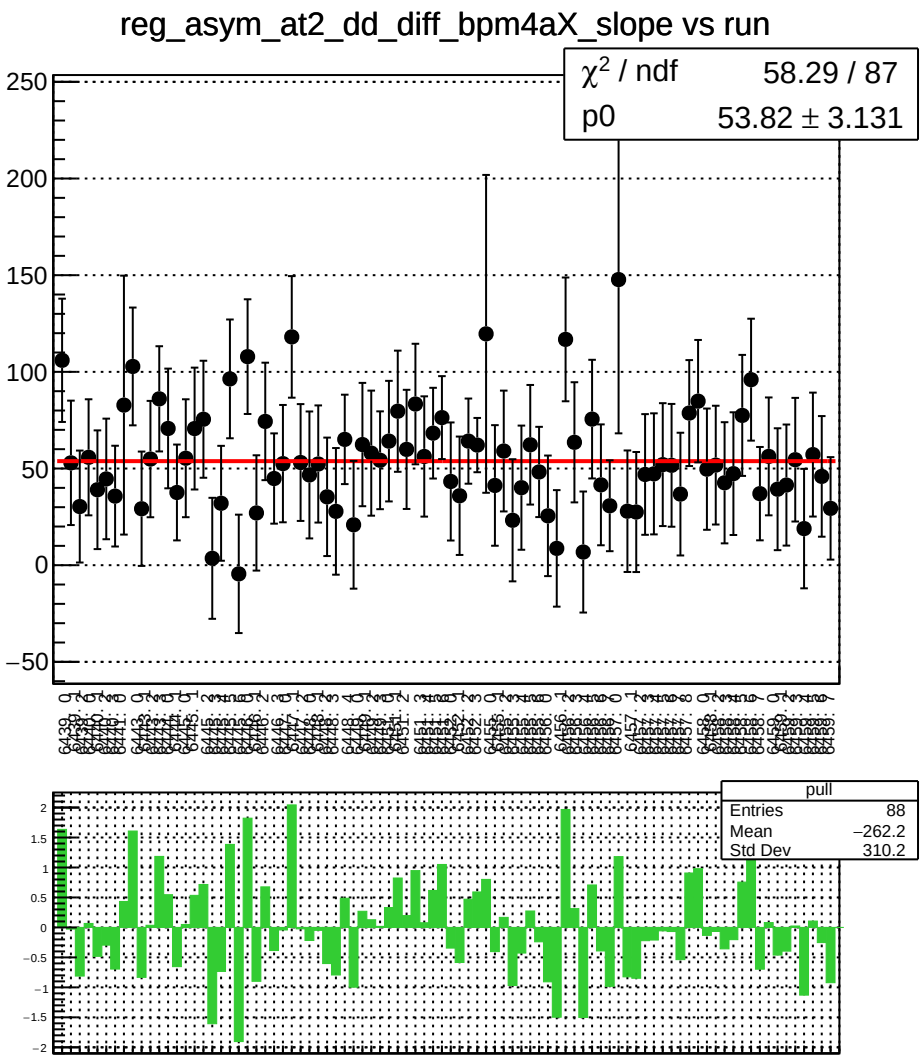

pull1D
Entries 88
Mean 0.06493
Std Dev 0.8269

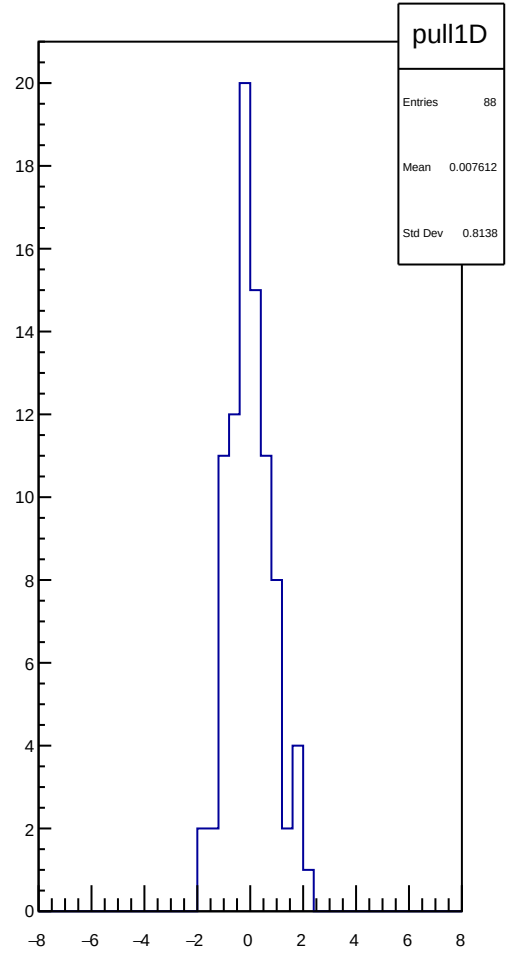

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 85.28 / 87
p0 289.8 ± 8.944
pull
Entries 88
Mean −1015
Std Dev 1055

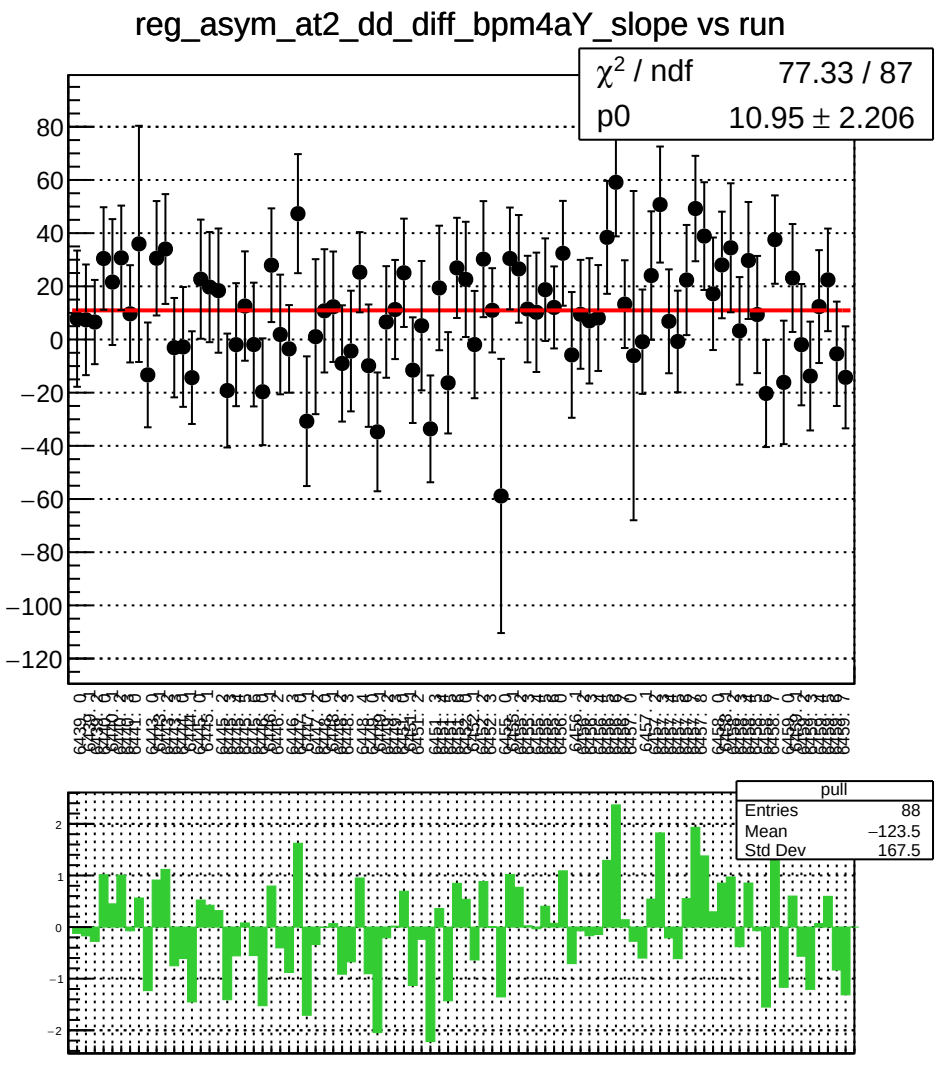

pull1D
Entries 88
Mean −0.01762
Std Dev 0.9843

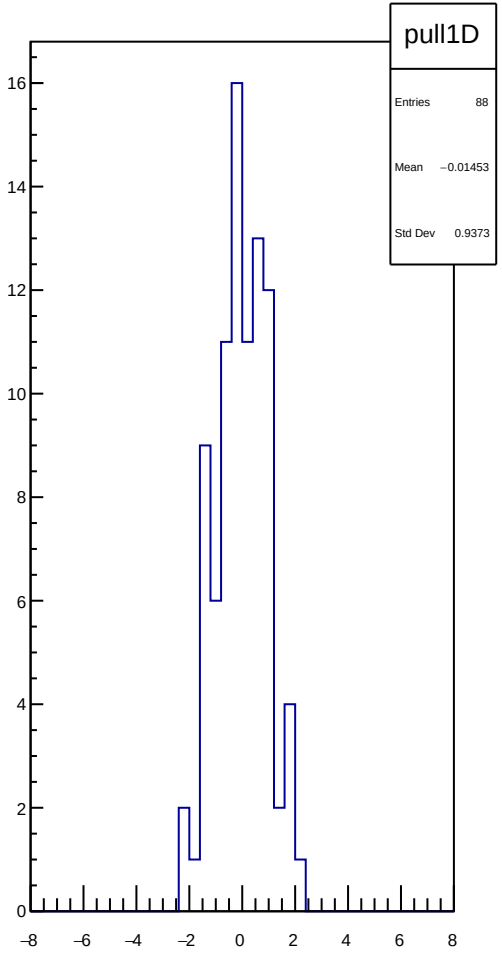

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 113.3 / 87
p0 −304.4 ± 0.3697
pull
Entries 88
Mean 1271
Std Dev 1238

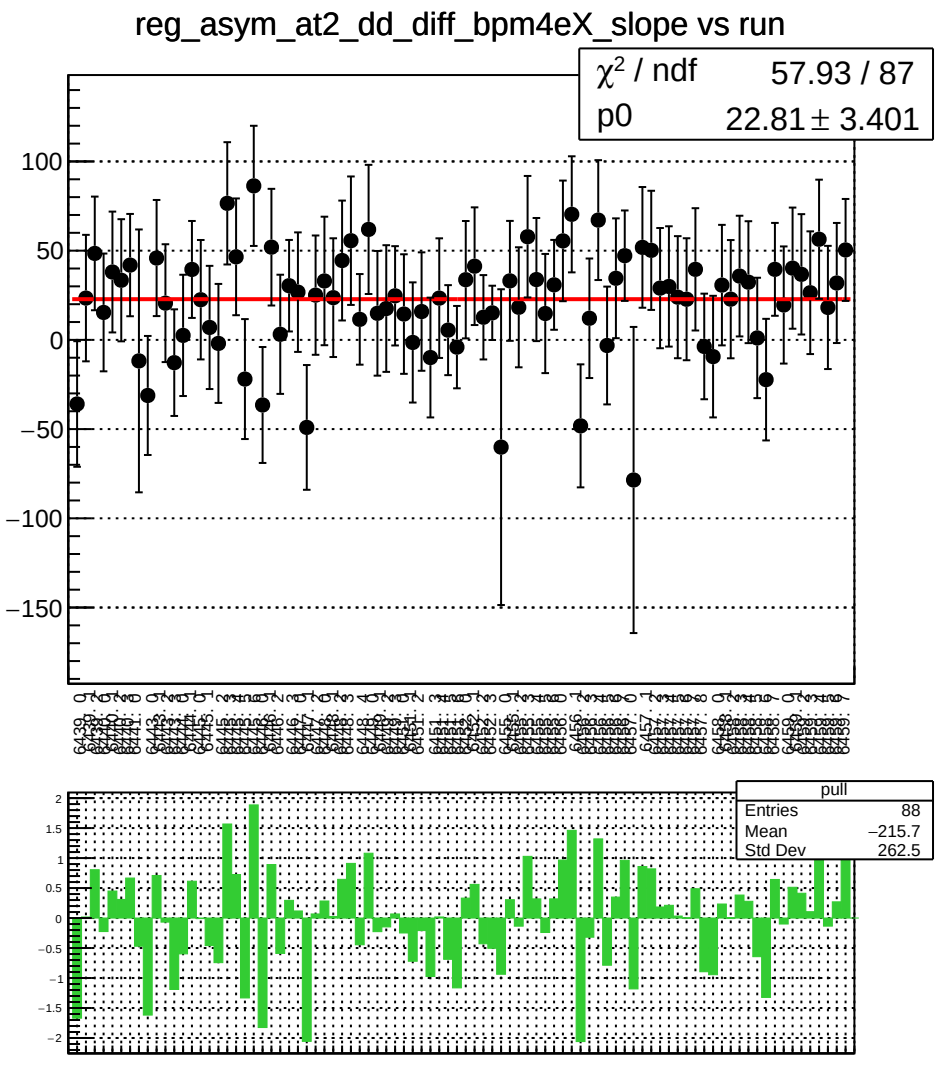

pull1D
Entries 88
Mean −0.01092
Std Dev 1.135

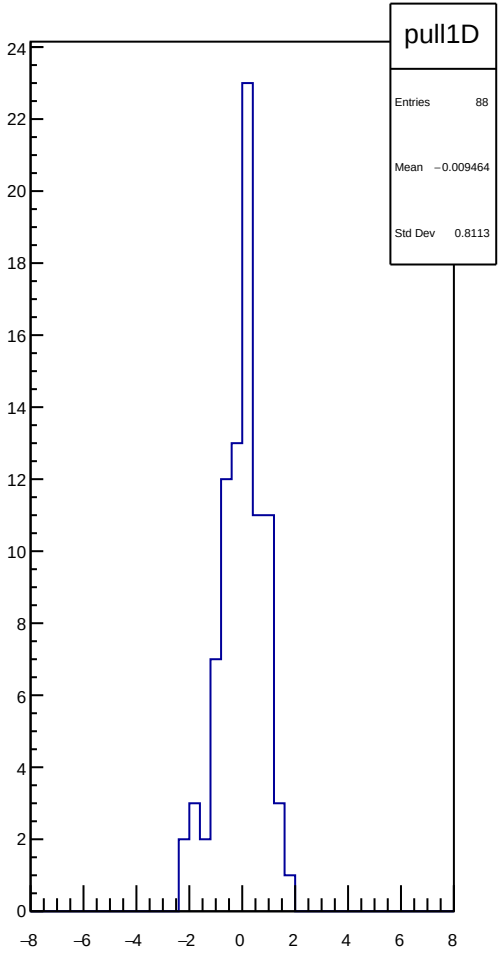

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 58.29 / 87
p0 53.82 ± 3.131
pull
Entries 88
Mean −262.2
Std Dev 310.2

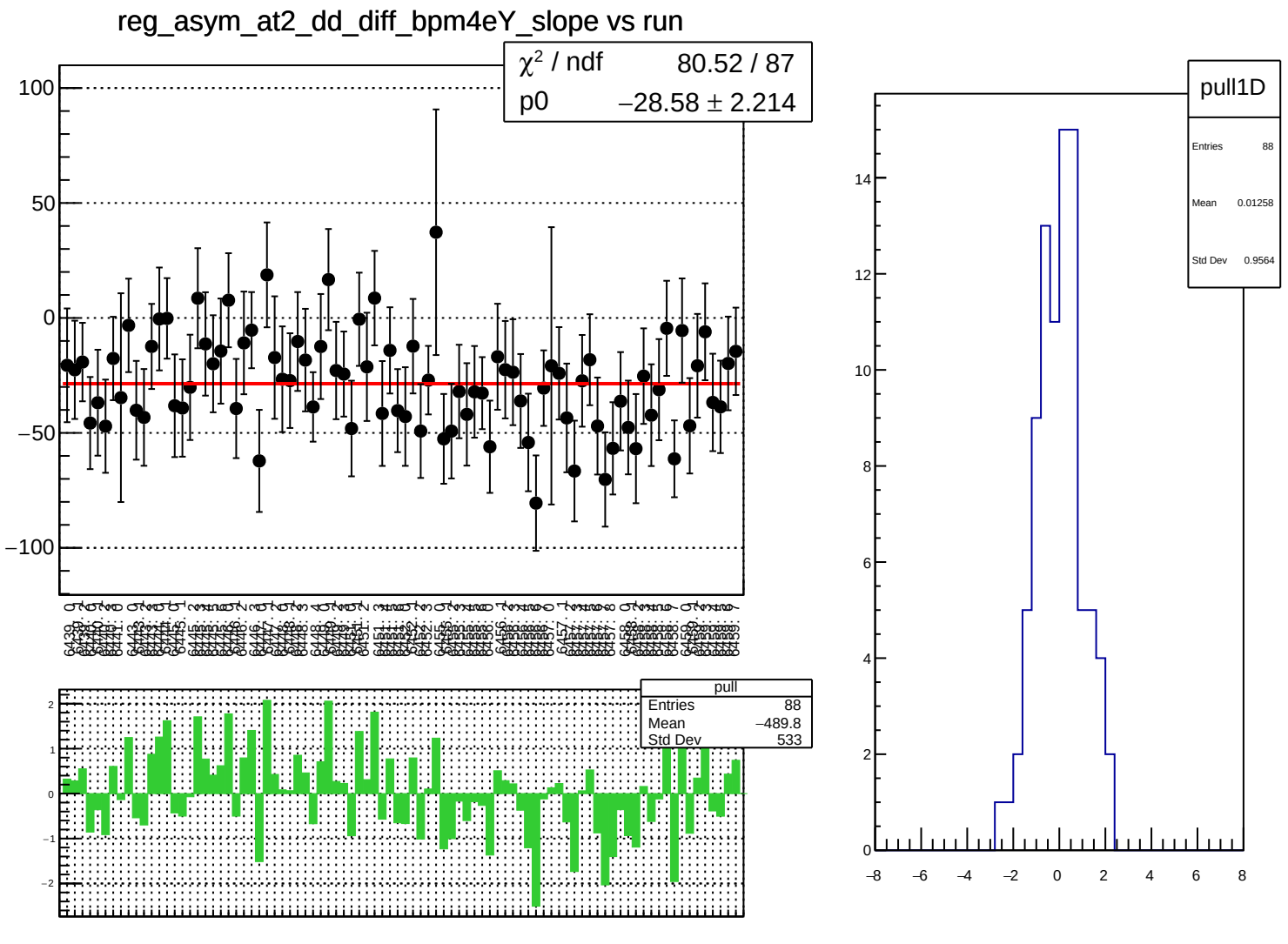

pull1D
Entries 88
Mean 0.007612
Std Dev 0.8138

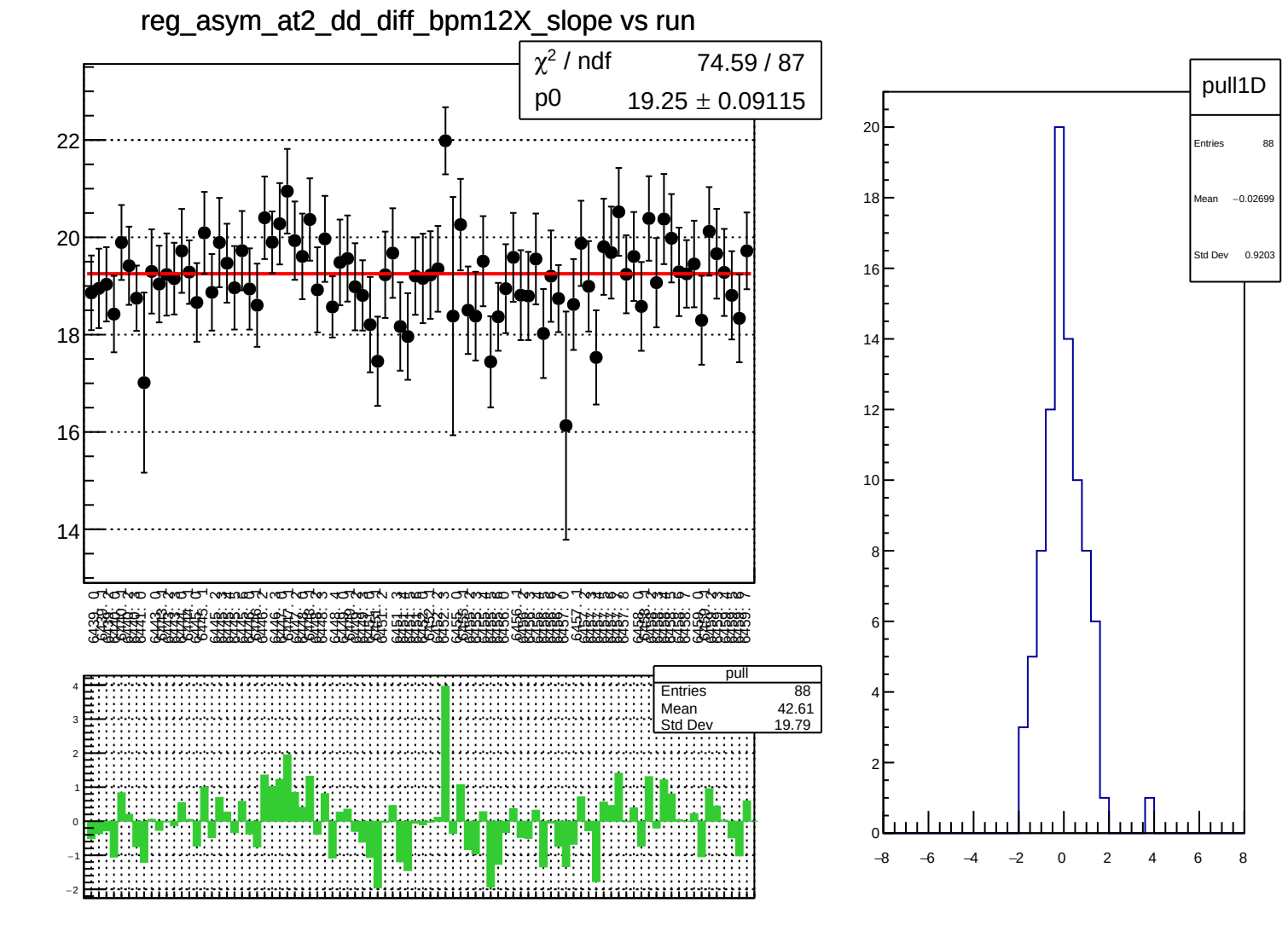

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.33 / 87
p0 10.95 ± 2.206
pull
Entries 88
Mean −123.5
Std Dev 167.5

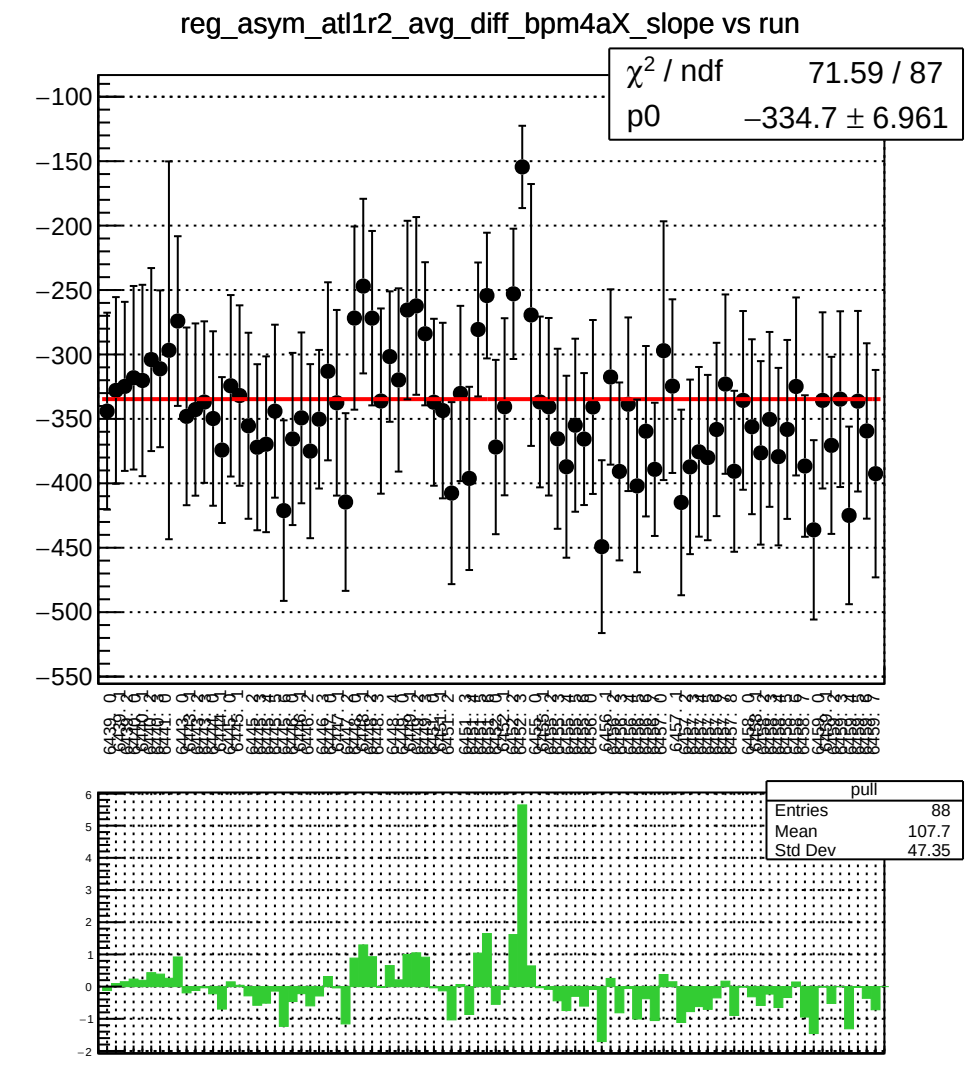

pull1D
Entries 88
Mean −0.01453
Std Dev 0.9373

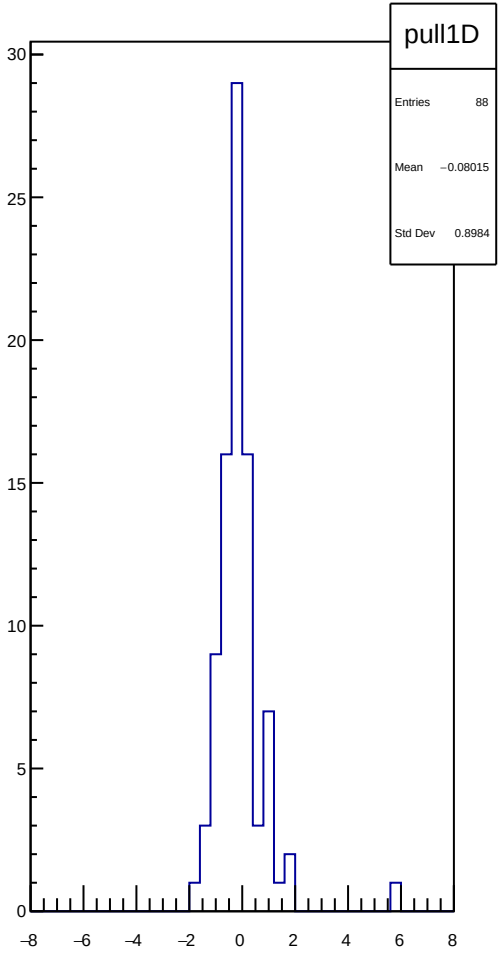

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.93 / 87
p0 22.81 ± 3.401
pull
Entries 88
Mean −215.7
Std Dev 262.5

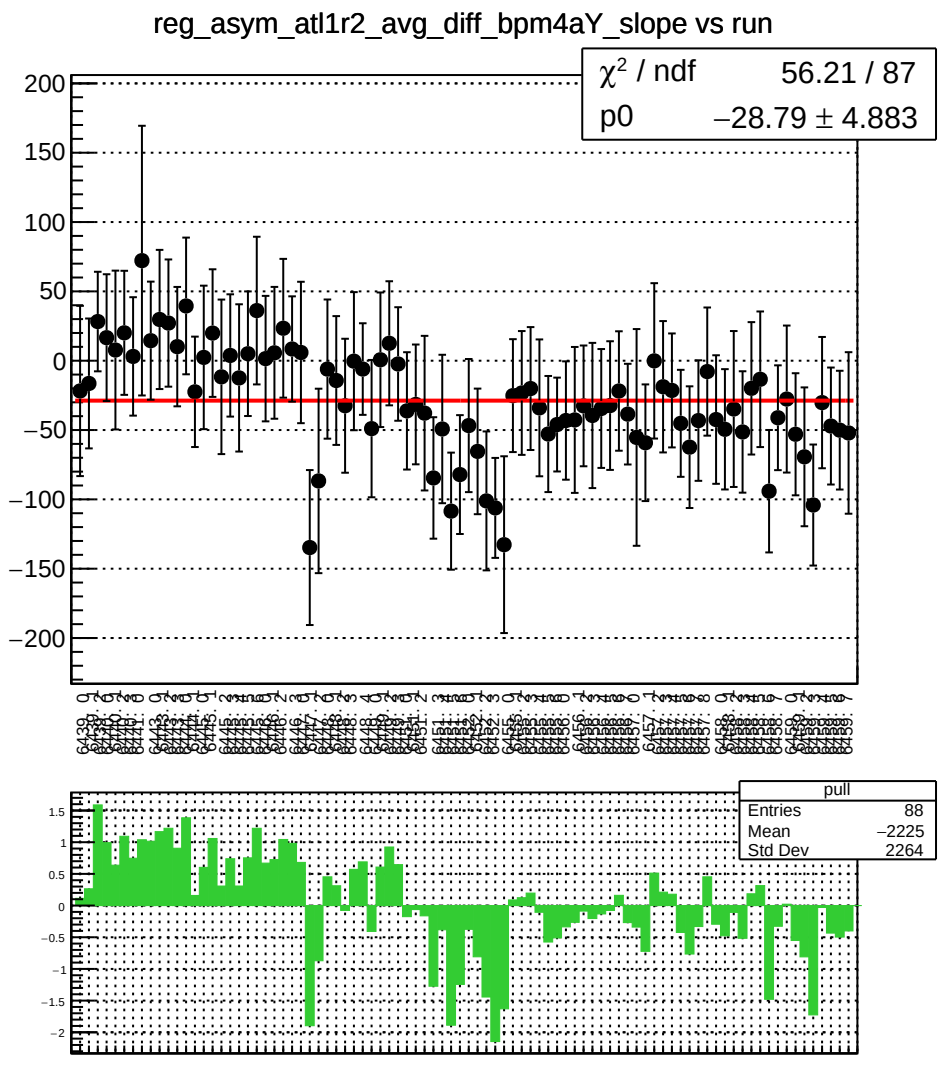

pull1D
Entries 88
Mean −0.009464
Std Dev 0.8113

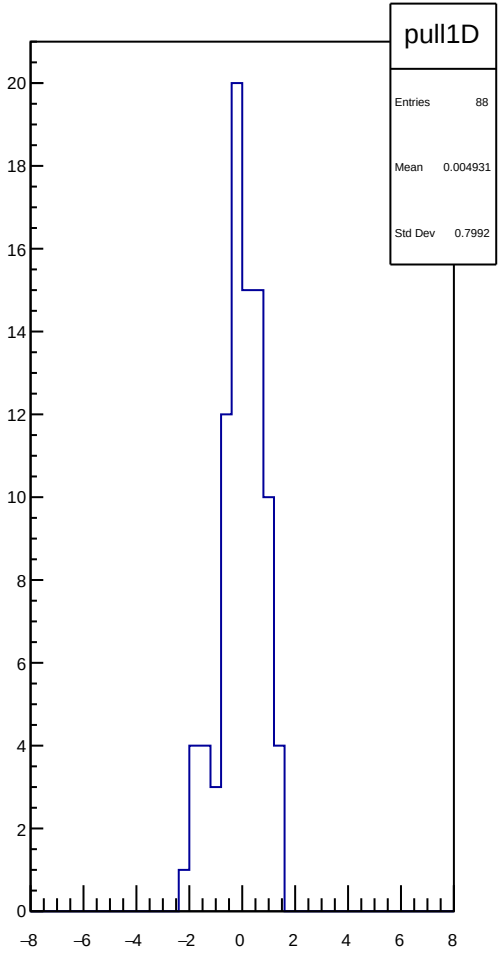

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.52 / 87
p0 −28.58 ± 2.214
100
50
0
−50
−100
pull
Entries 88
Mean −489.8
Std Dev 533
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01258
Std Dev 0.9564
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

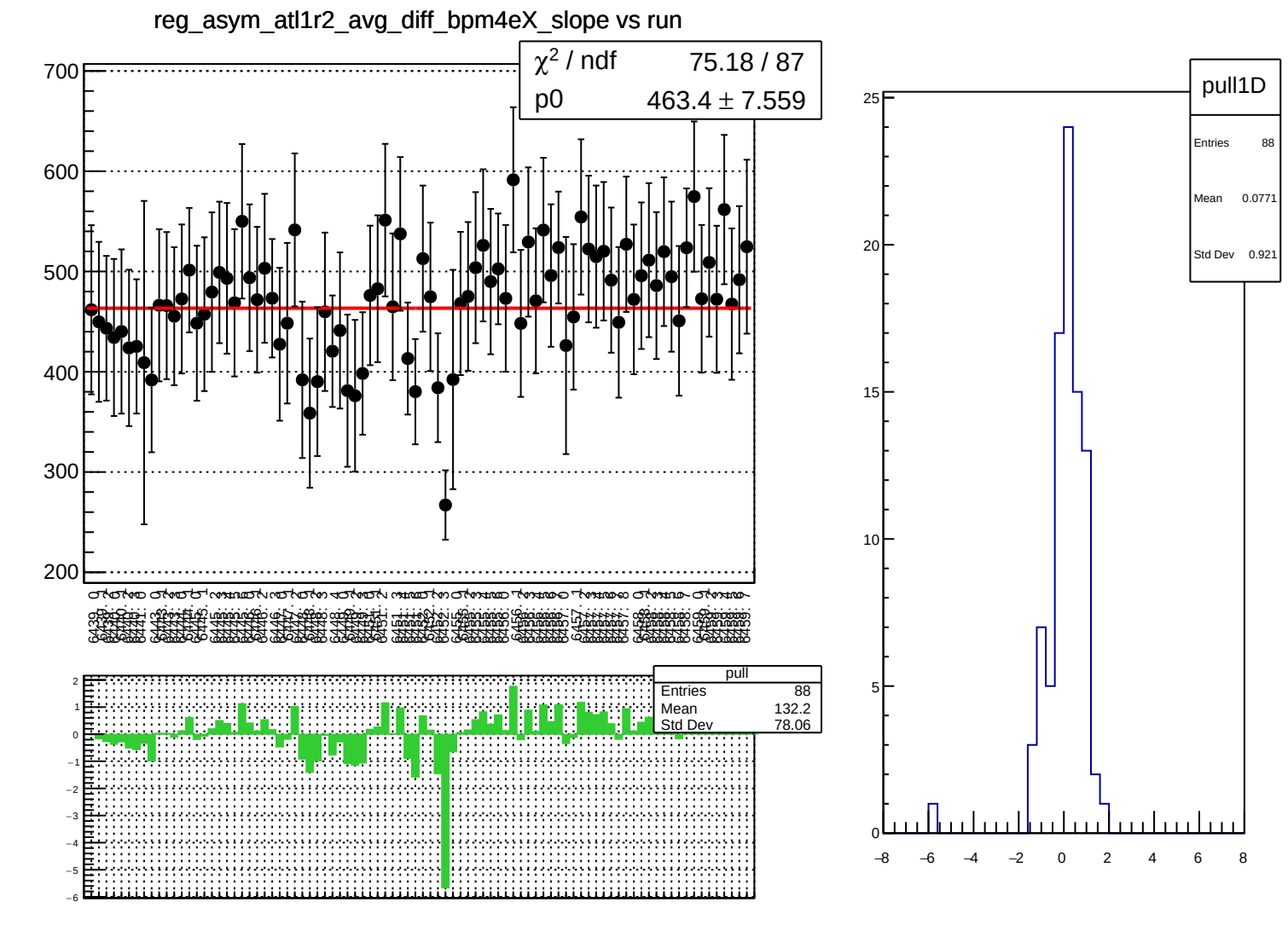

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 74.59 / 87
p0 19.25 ± 0.09115
pull
Entries 88
Mean 42.61
Std Dev 19.79
pull1D
Entries 88
Mean −0.02699
Std Dev 0.9203

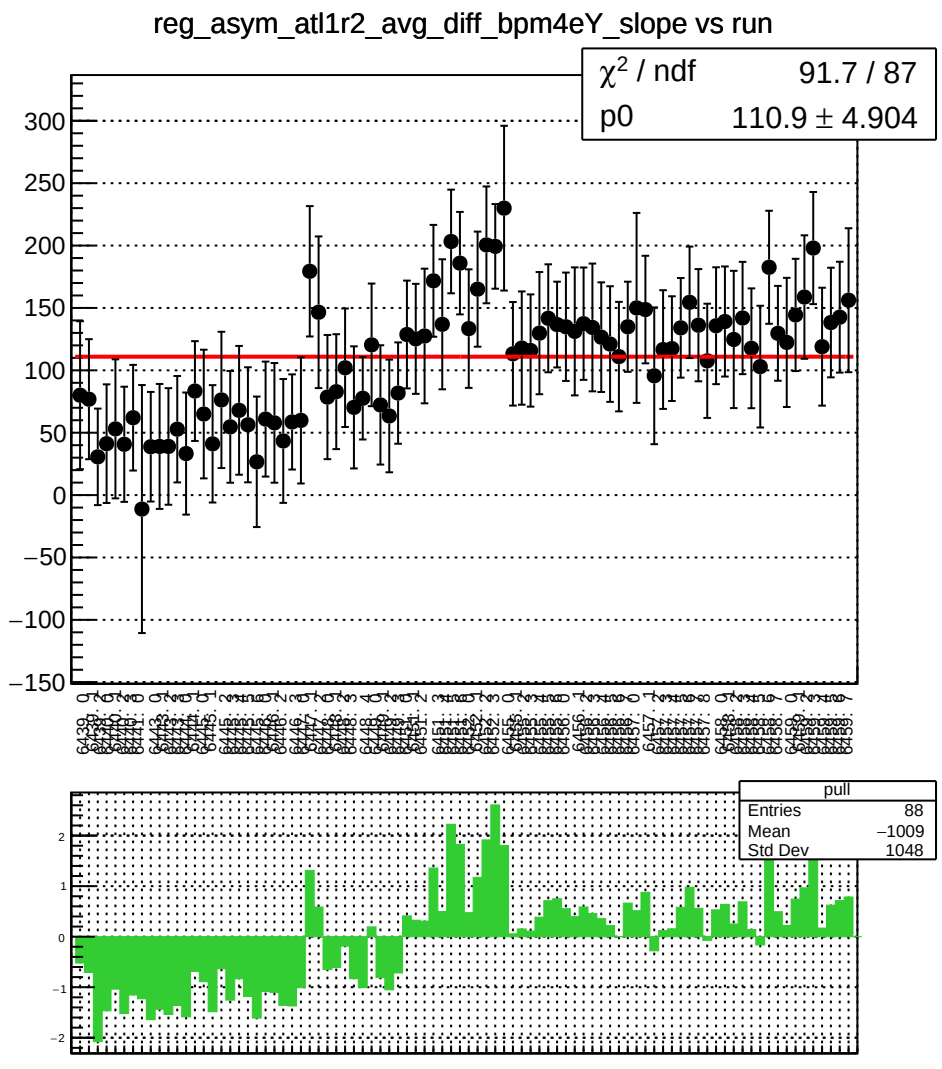

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 71.59 / 87
p0 −334.7 ± 6.961
pull
Entries 88
Mean 107.7
Std Dev 47.35

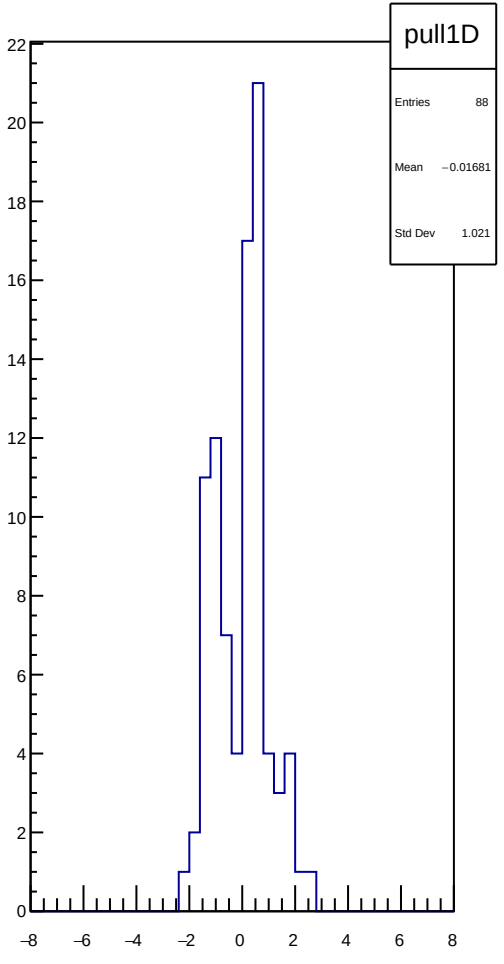

pull1D
Entries 88
Mean −0.08015
Std Dev 0.8984

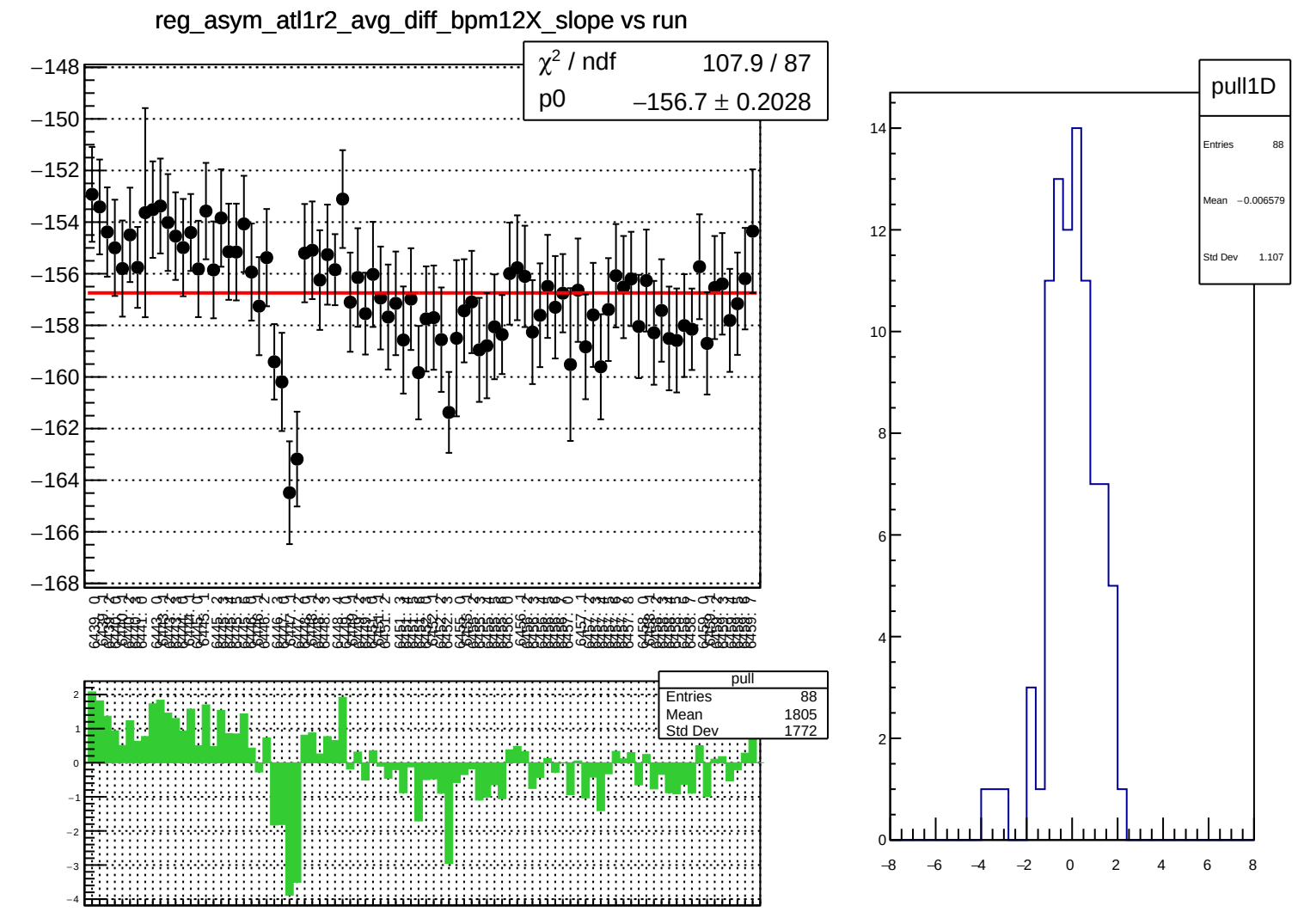

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.21 / 87
p0 −28.79 ± 4.883
pull
Entries 88
Mean −2225
Std Dev 2264

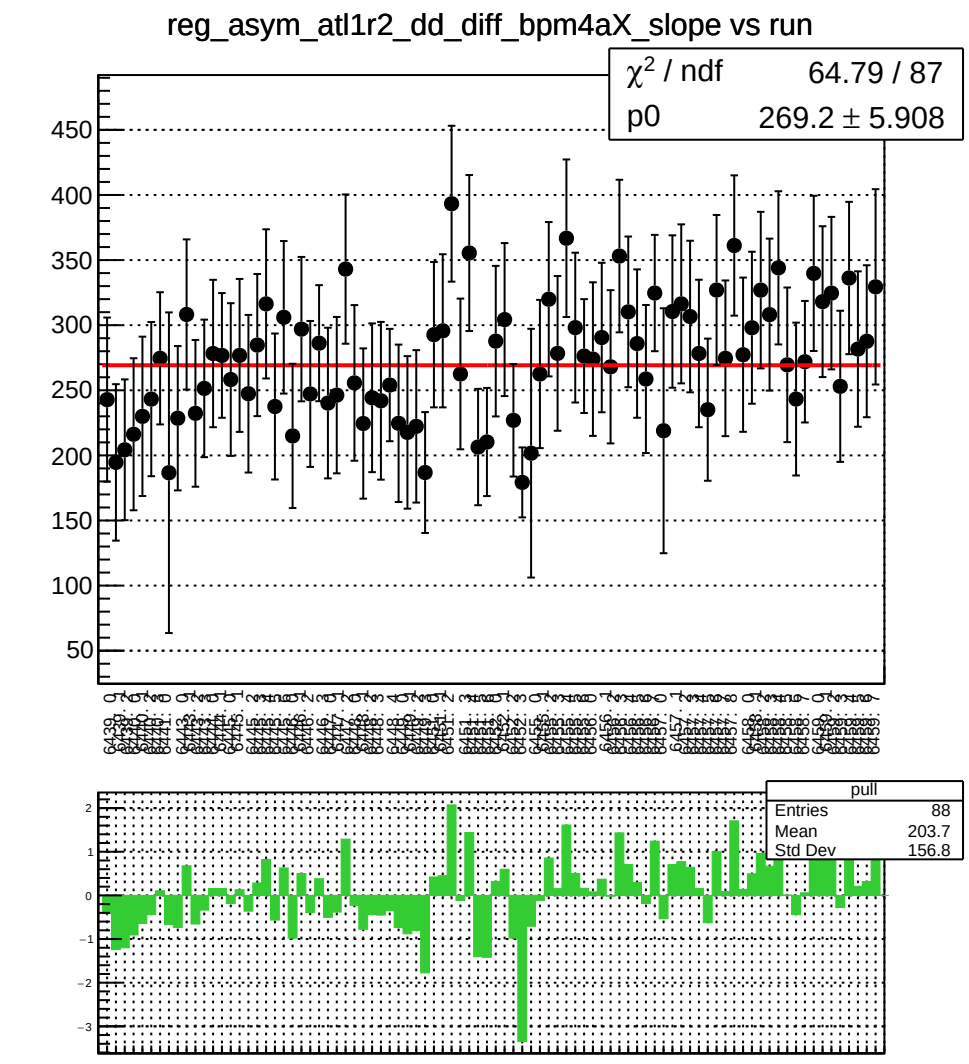

pull1D
Entries 88
Mean 0.004931
Std Dev 0.7992

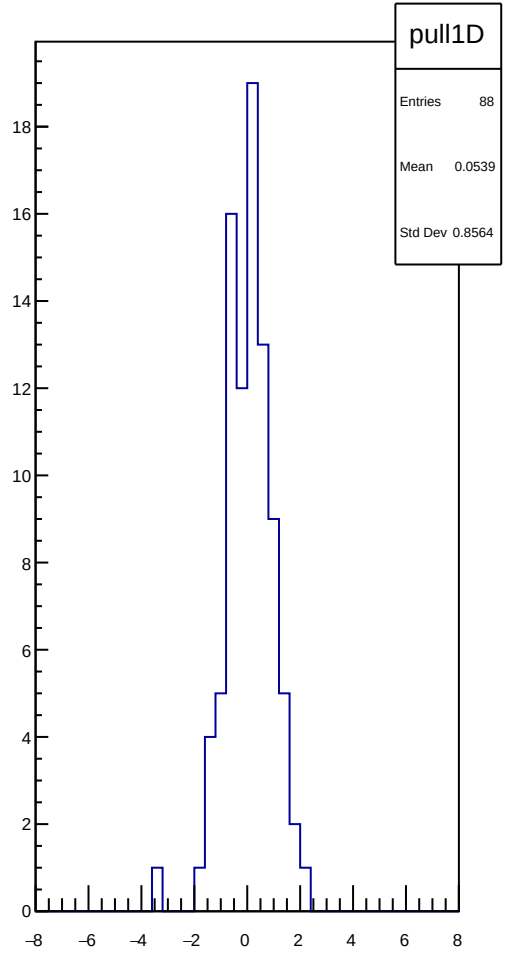

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 75.18 / 87
p0 463.4 ± 7.559
700
600
500
400
300
200
pull
Entries 88
Mean 132.2
Std Dev 78.06
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 88
Mean 0.0771
Std Dev 0.921
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

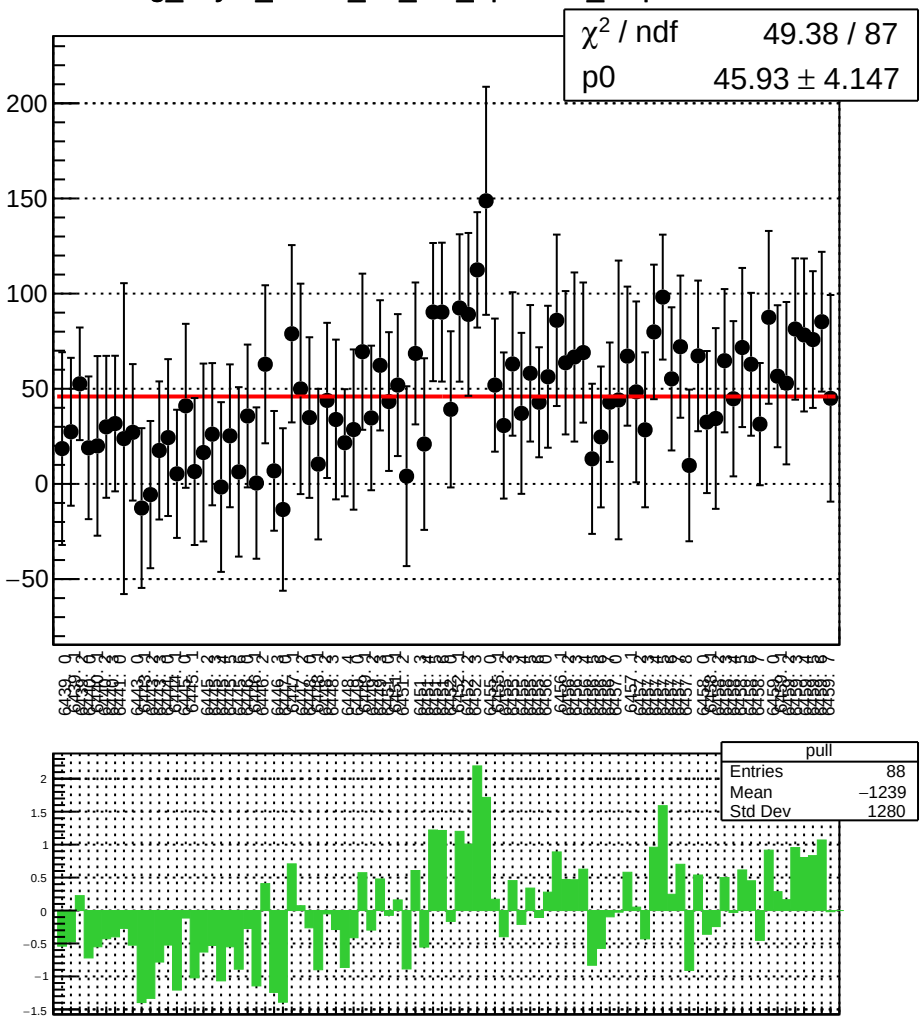

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.7 / 87
p0 110.9 ± 4.904
pull
Entries 88
Mean −1009
Std Dev 1048

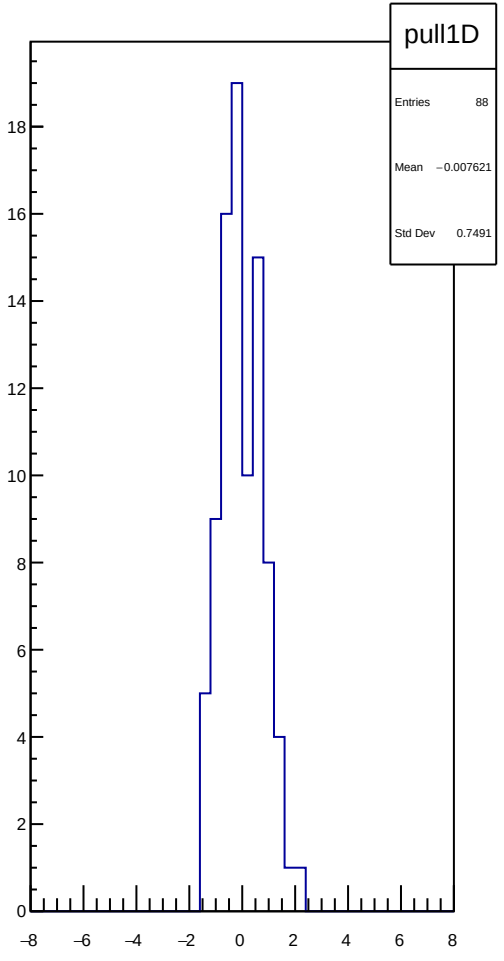

pull1D
Entries 88
Mean −0.01681
Std Dev 1.021

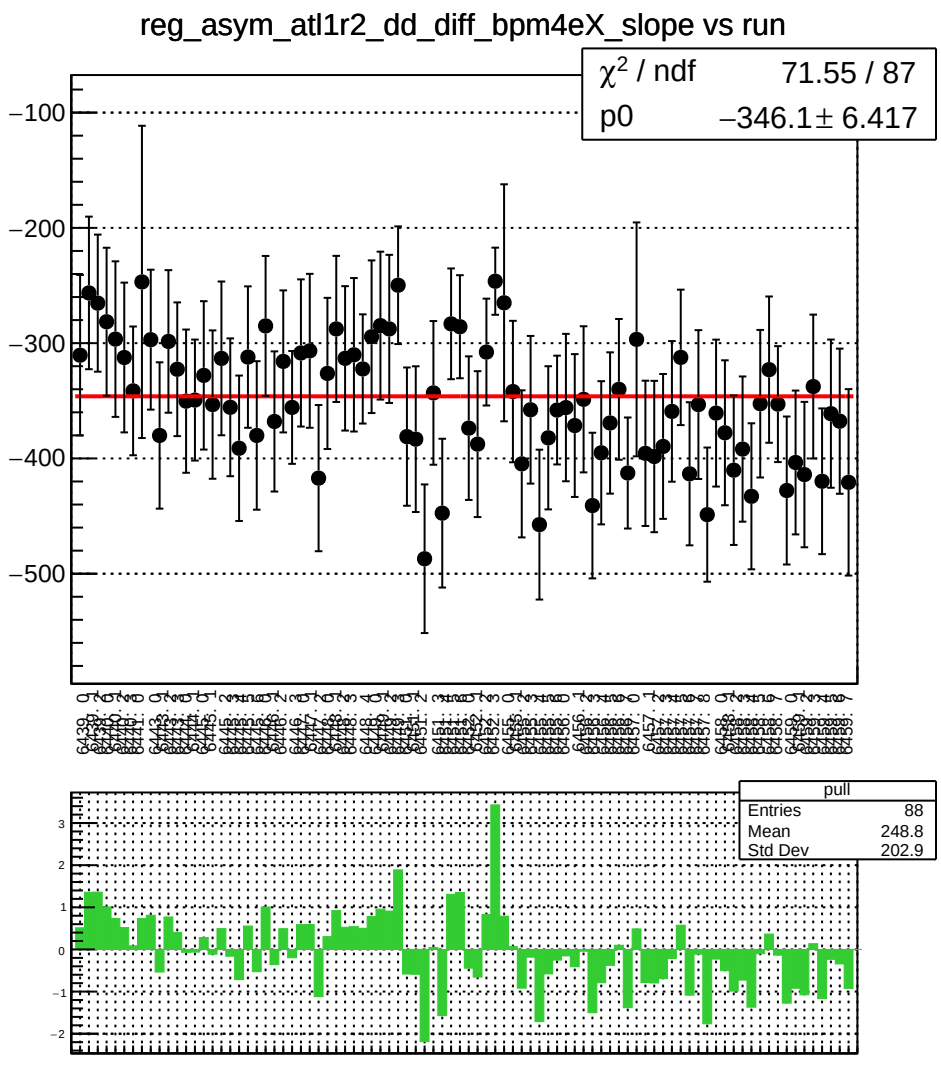

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 107.9 / 87
p0 −156.7 ± 0.2028
pull
Entries 88
Mean 1805
Std Dev 1772
pull1D
Entries 88
Mean −0.006579
Std Dev 1.107

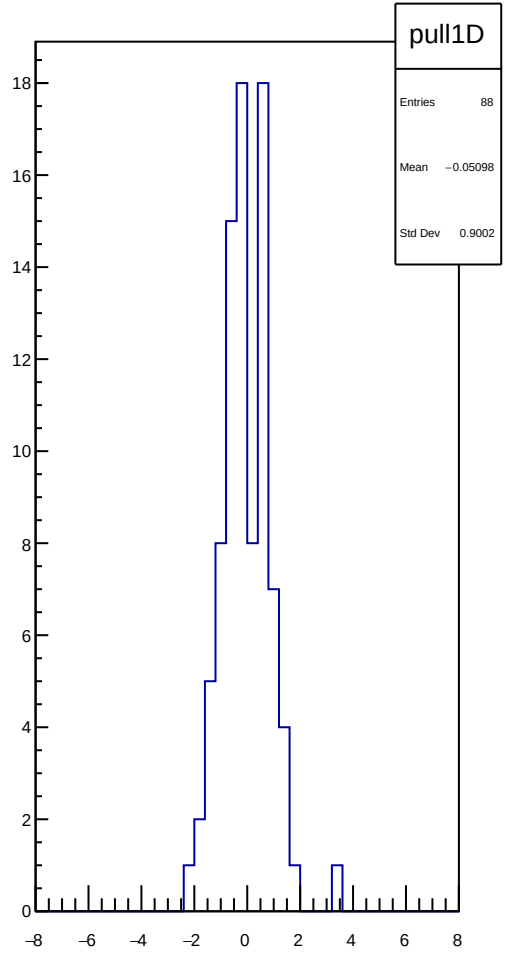

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 64.79 / 87
p0 269.2 ± 5.908
pull
Entries 88
Mean 203.7
Std Dev 156.8

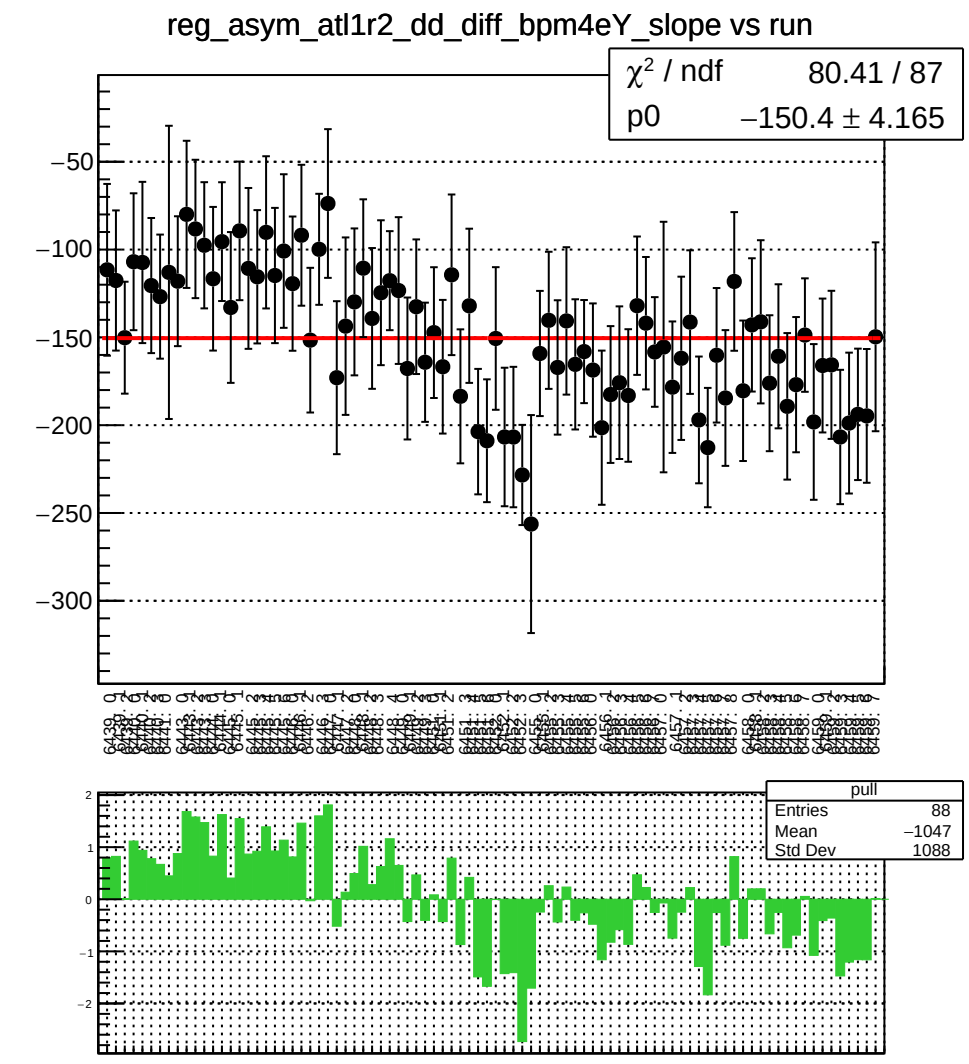

pull1D
Entries 88
Mean 0.0539
Std Dev 0.8564

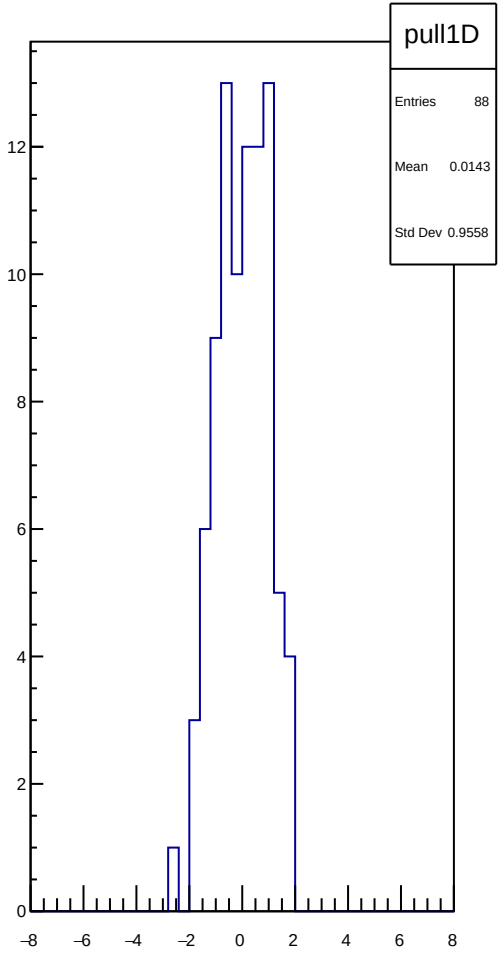

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.38 / 87
p0 45.93 ± 4.147
200
150
100
50
0
−50
pull
Entries 88
Mean −1239
Std Dev 1280
2
1.5
1
0.5
0
−0.5
−1
−1.5

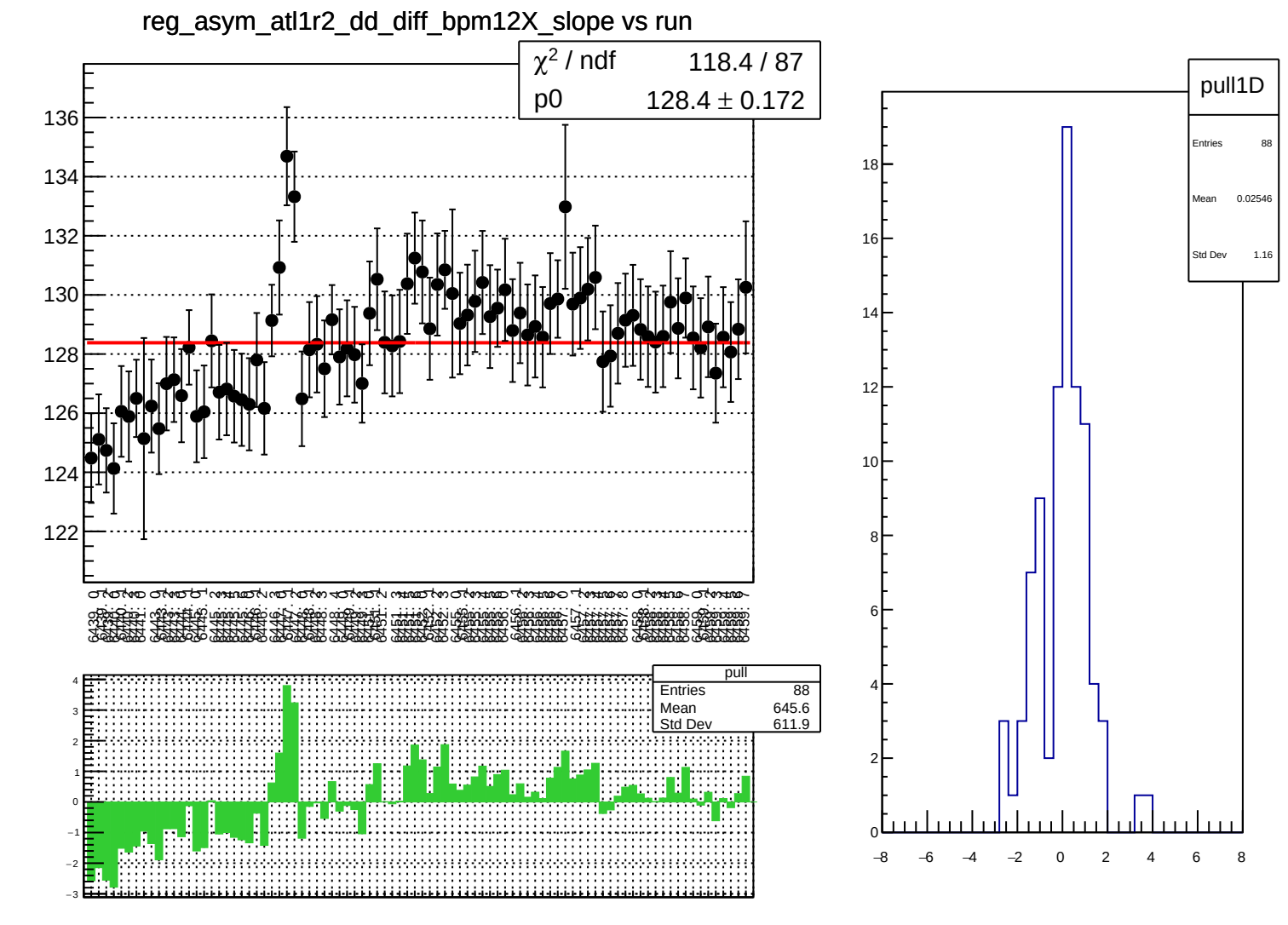

pull1D
Entries 88
Mean −0.007621
Std Dev 0.7491
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

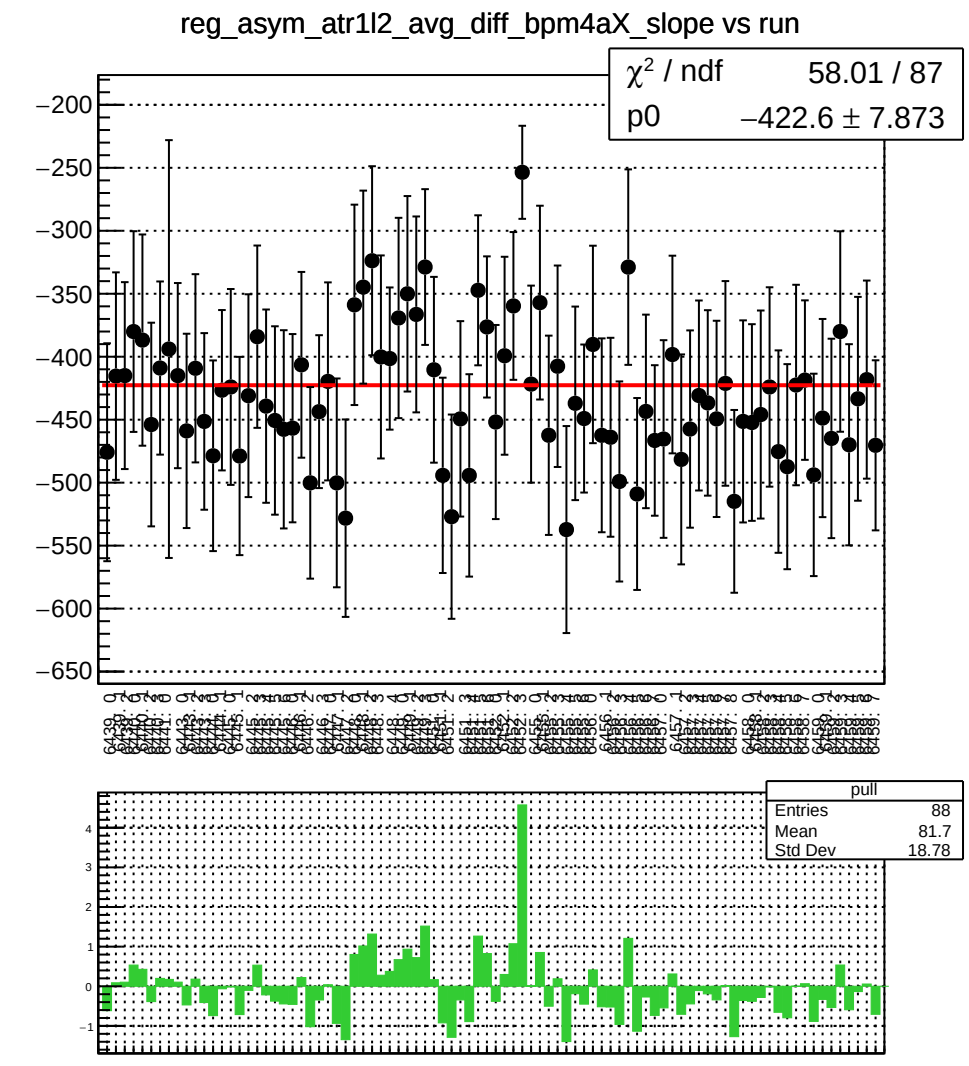

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.55 / 87
p0 −346.1 ± 6.417
−100
−200
−300
−400
−500
pull
Entries 88
Mean 248.8
Std Dev 202.9
3
2
1
0
−1
−2

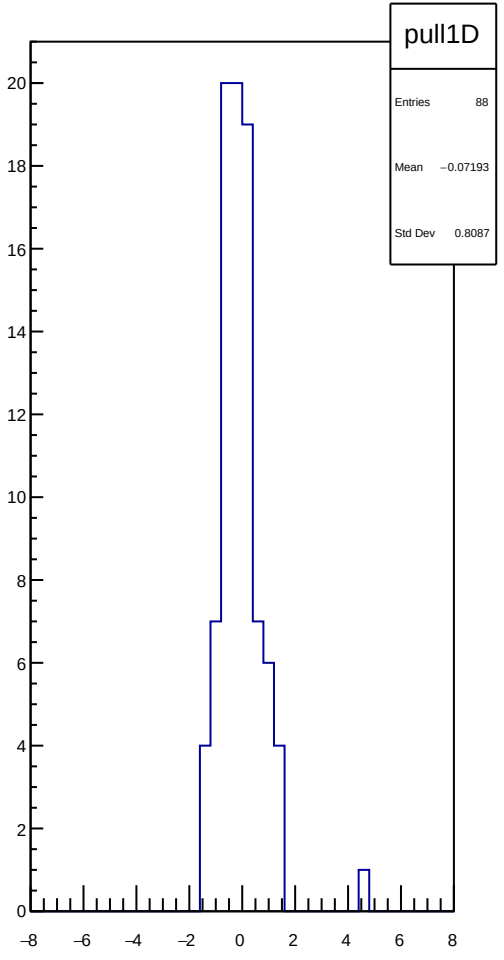

pull1D
Entries 88
Mean −0.05098
Std Dev 0.9002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

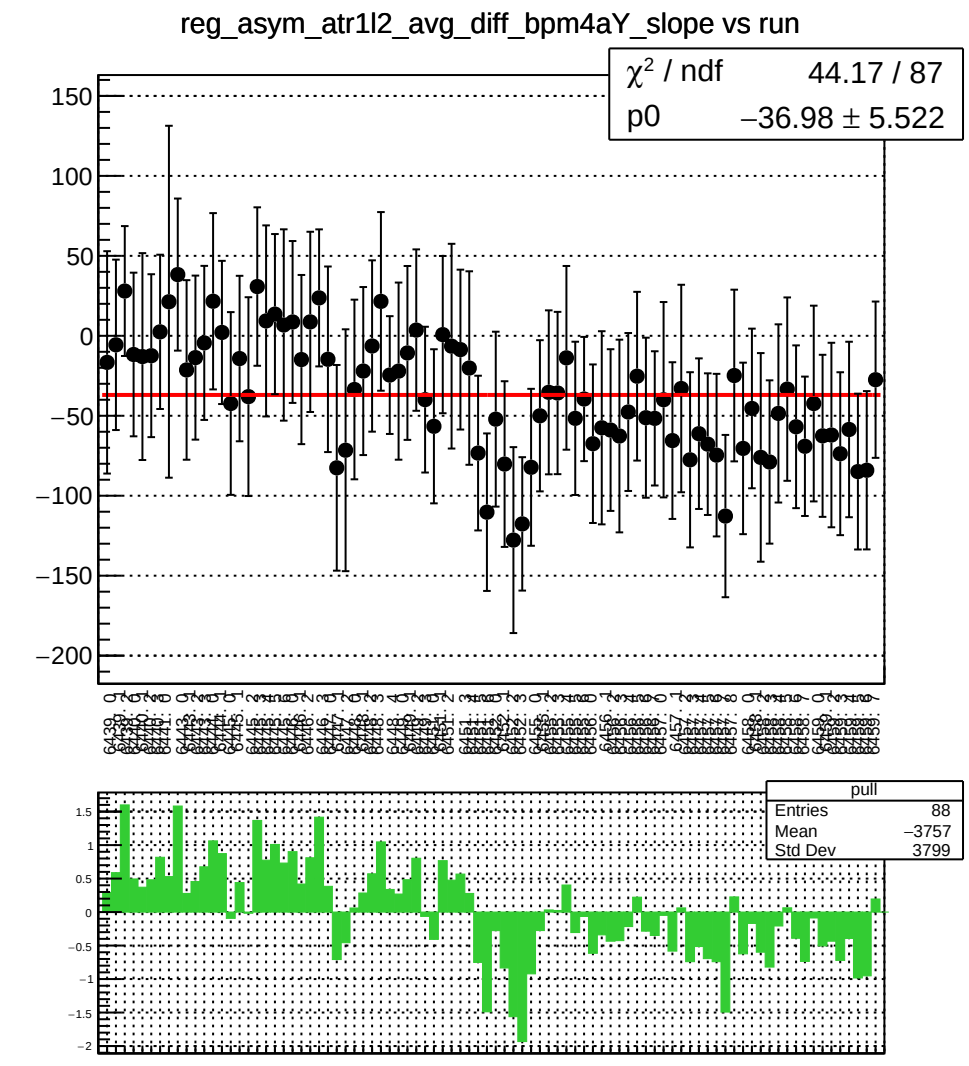

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.41 / 87
p0 −150.4 ± 4.165
pull
Entries 88
Mean −1047
Std Dev 1088

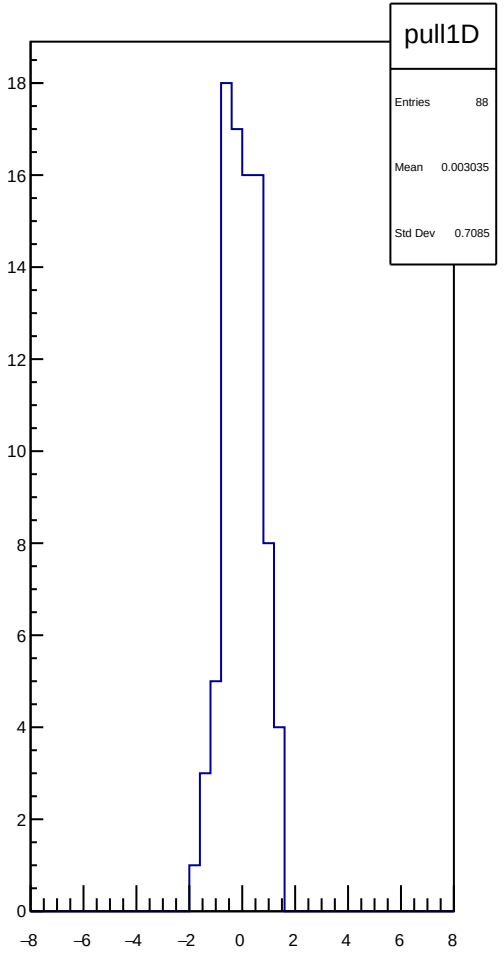

pull1D
Entries 88
Mean 0.0143
Std Dev 0.9558

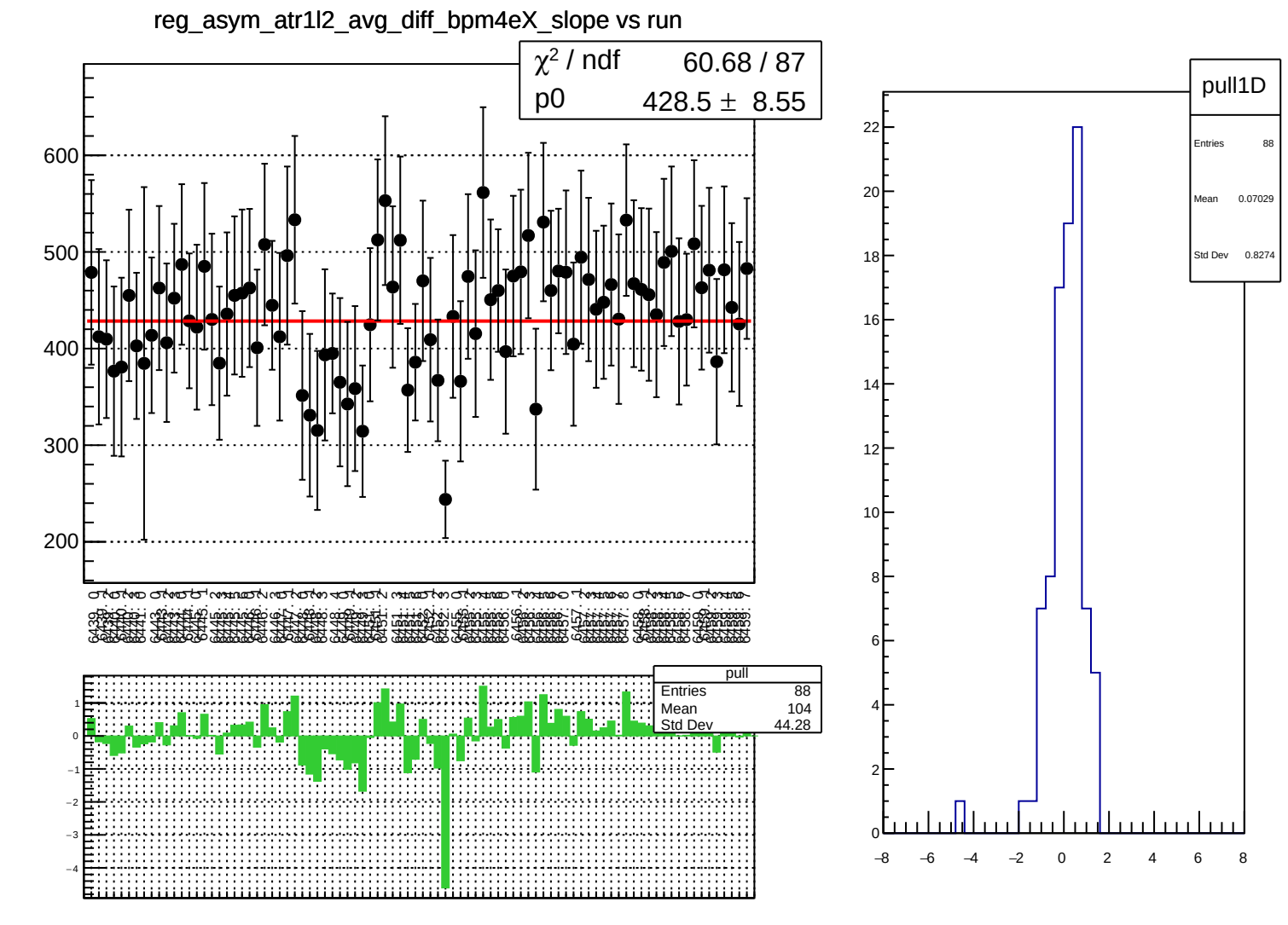

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 118.4 / 87
p0 128.4 ± 0.172
pull
Entries 88
Mean 645.6
Std Dev 611.9
pull1D
Entries 88
Mean 0.02546
Std Dev 1.16

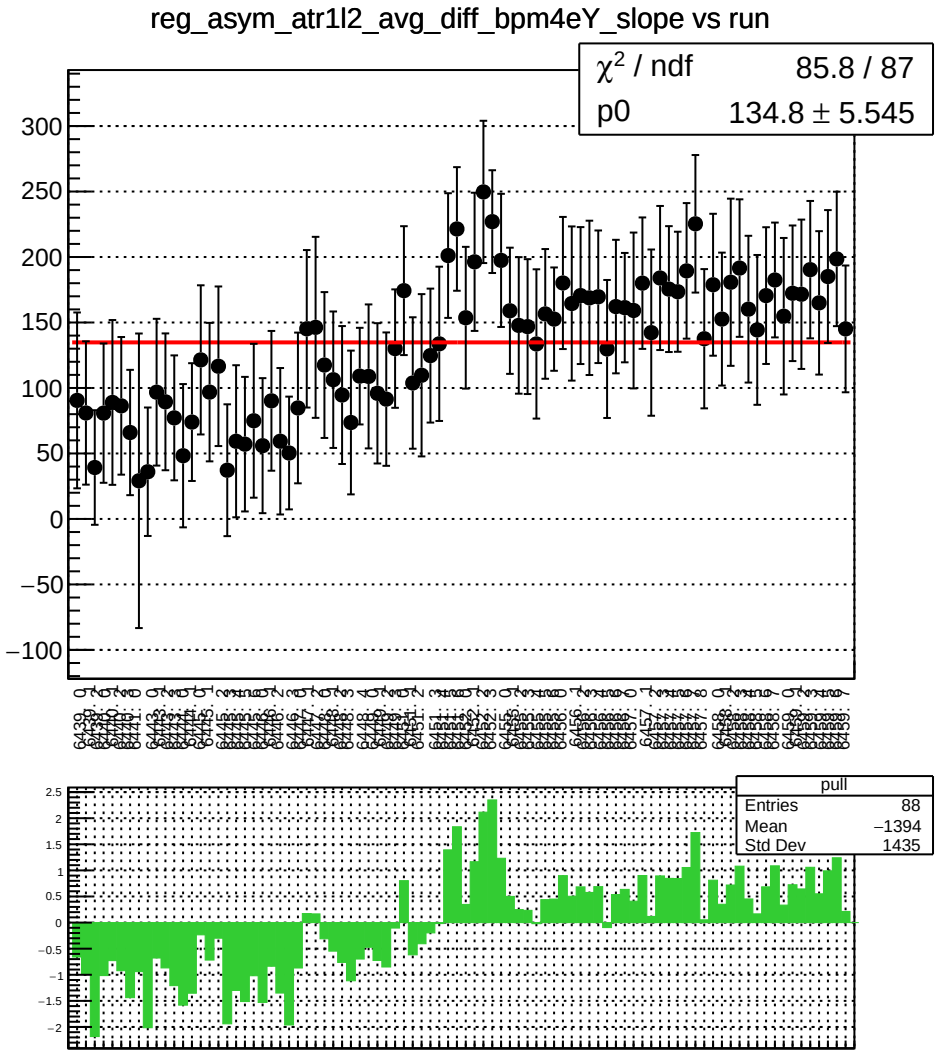

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 58.01 / 87
p0 −422.6 ± 7.873
pull
Entries 88
Mean 81.7
Std Dev 18.78

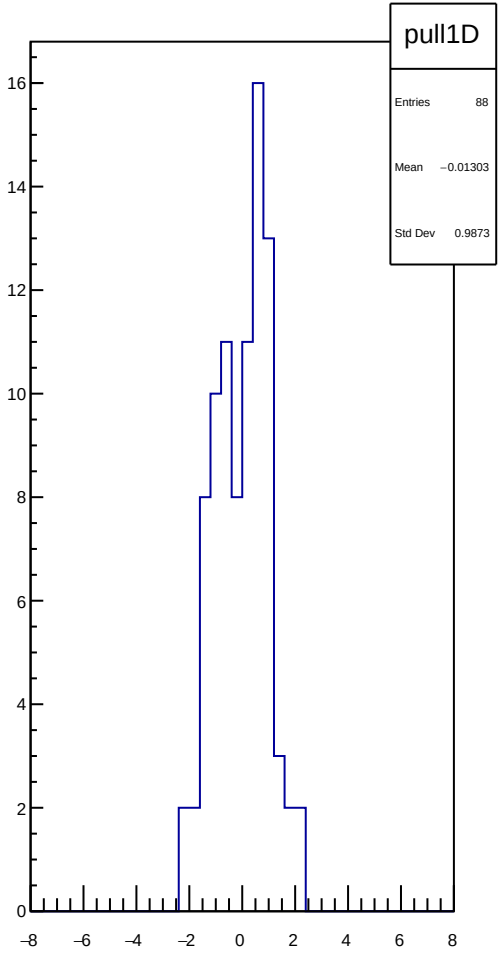

pull1D
Entries 88
Mean −0.07193
Std Dev 0.8087

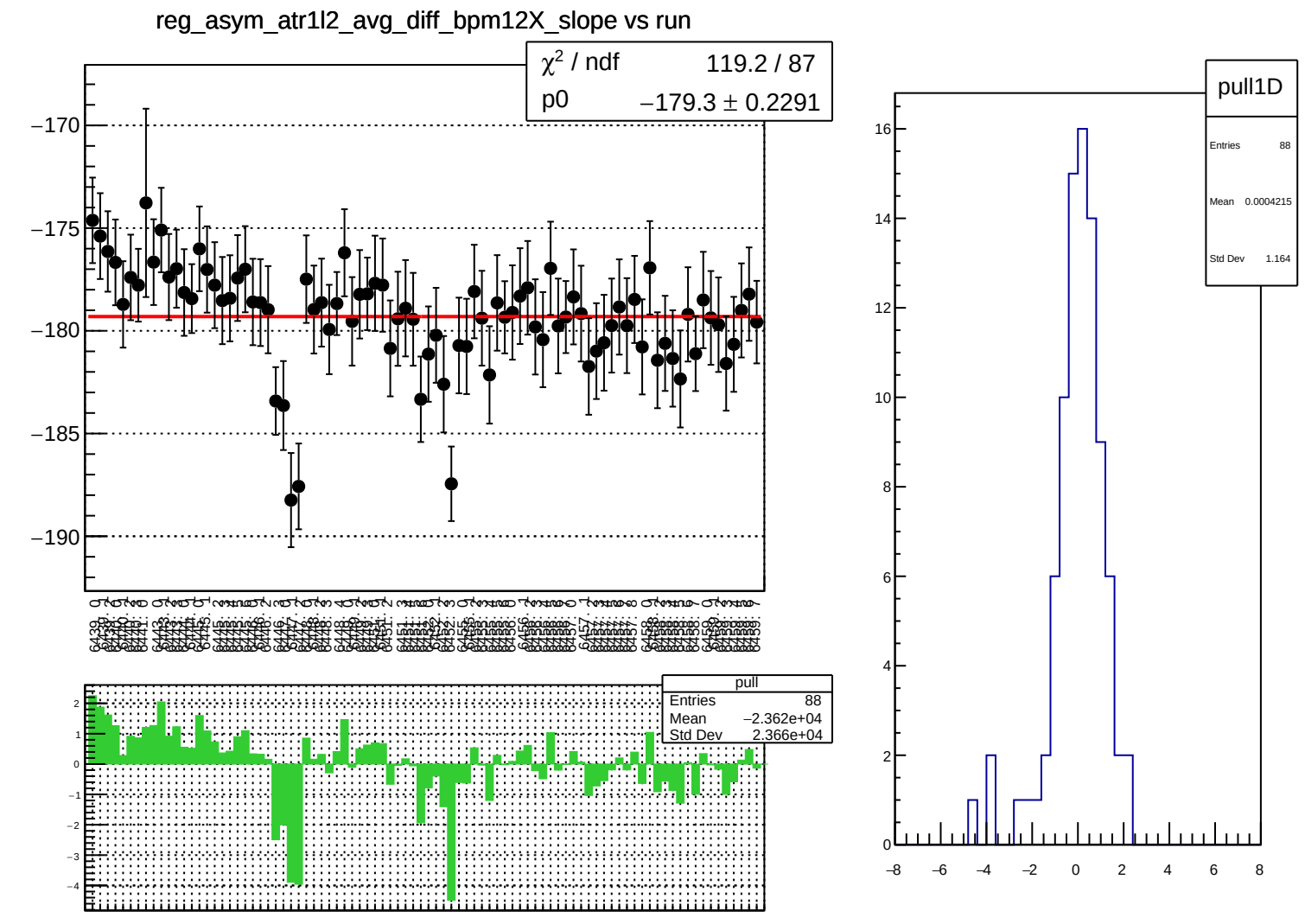

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.17 / 87
p0 −36.98 ± 5.522
pull
Entries 88
Mean −3757
Std Dev 3799

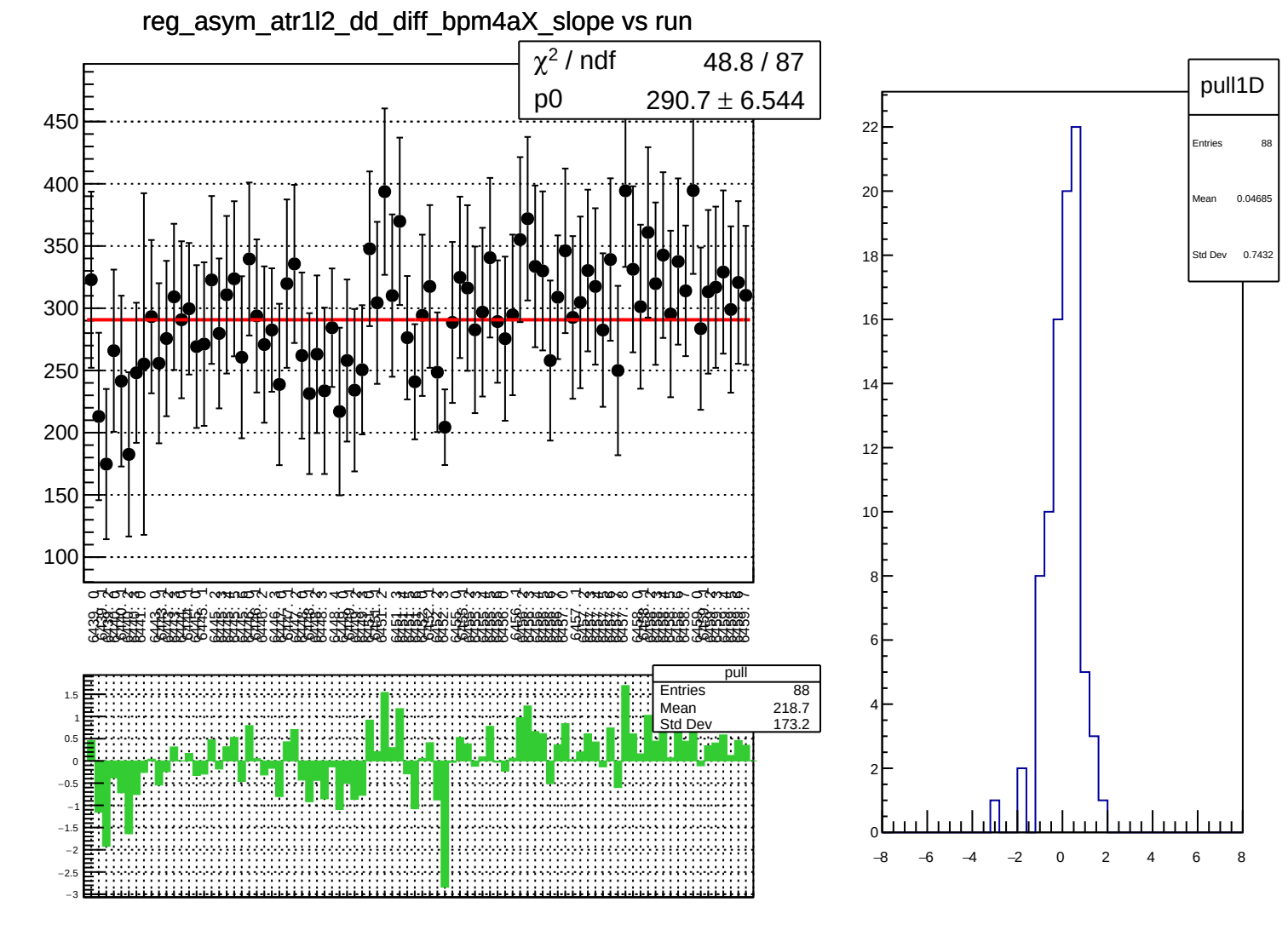

pull1D
Entries 88
Mean 0.003035
Std Dev 0.7085

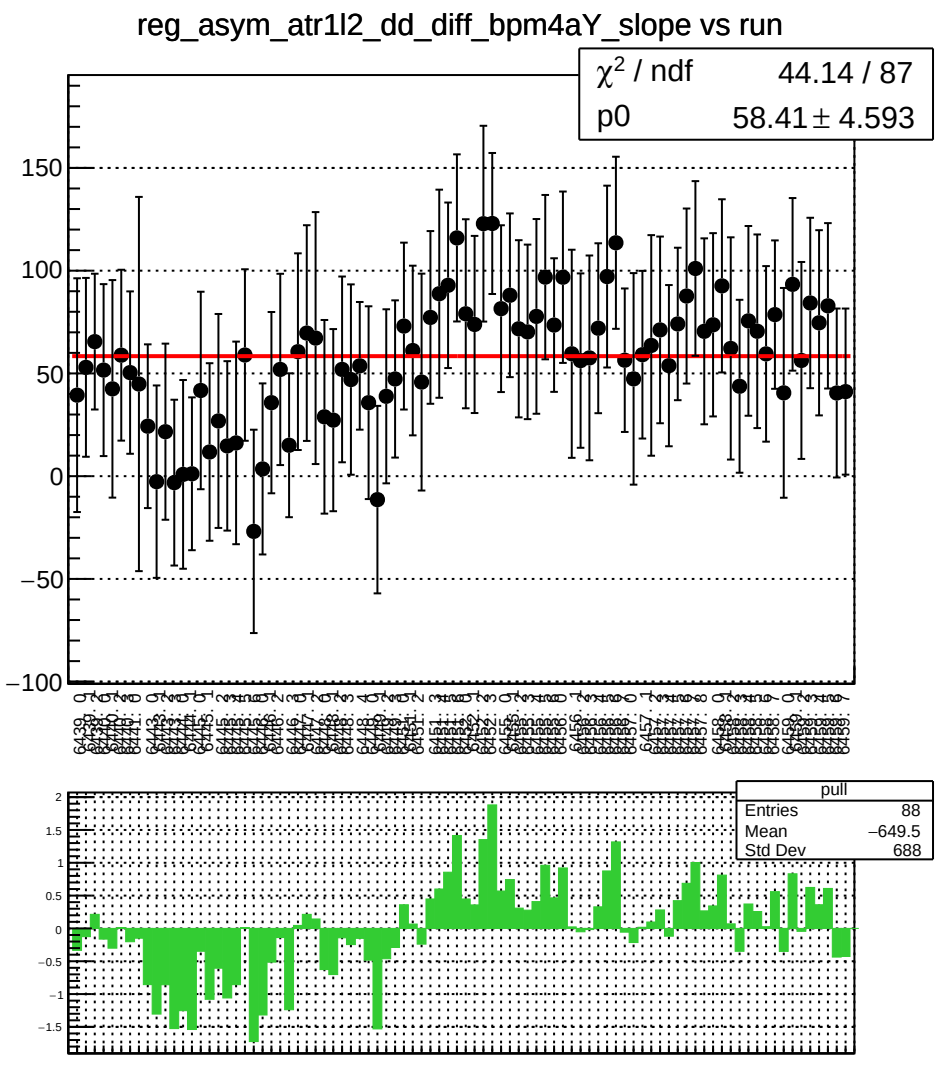

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.68 / 87
p0 428.5 ± 8.55
600
500
400
300
200
pull
Entries 88
Mean 104
Std Dev 44.28
1
0
−1
−2
−3
−4
pull1D
Entries 88
Mean 0.07029
Std Dev 0.8274
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

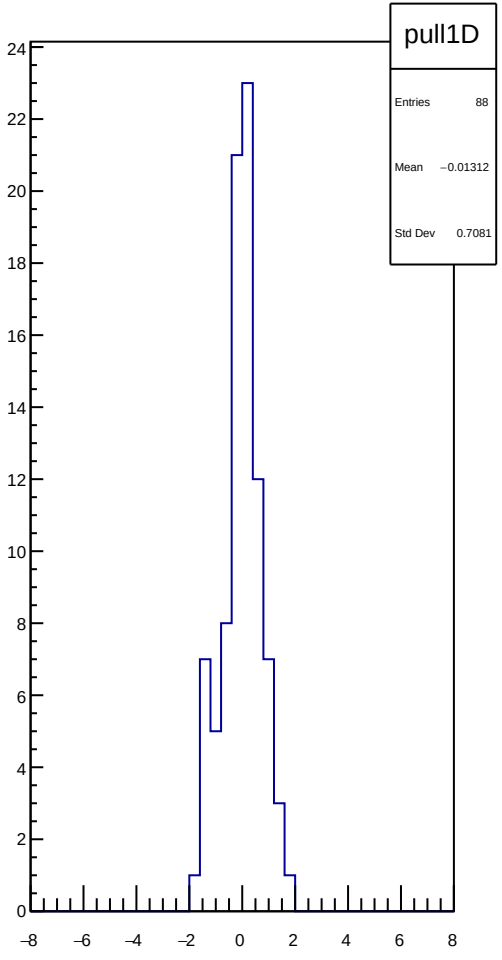

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 85.8 / 87
p0 134.8 ± 5.545
pull
Entries 88
Mean −1394
Std Dev 1435

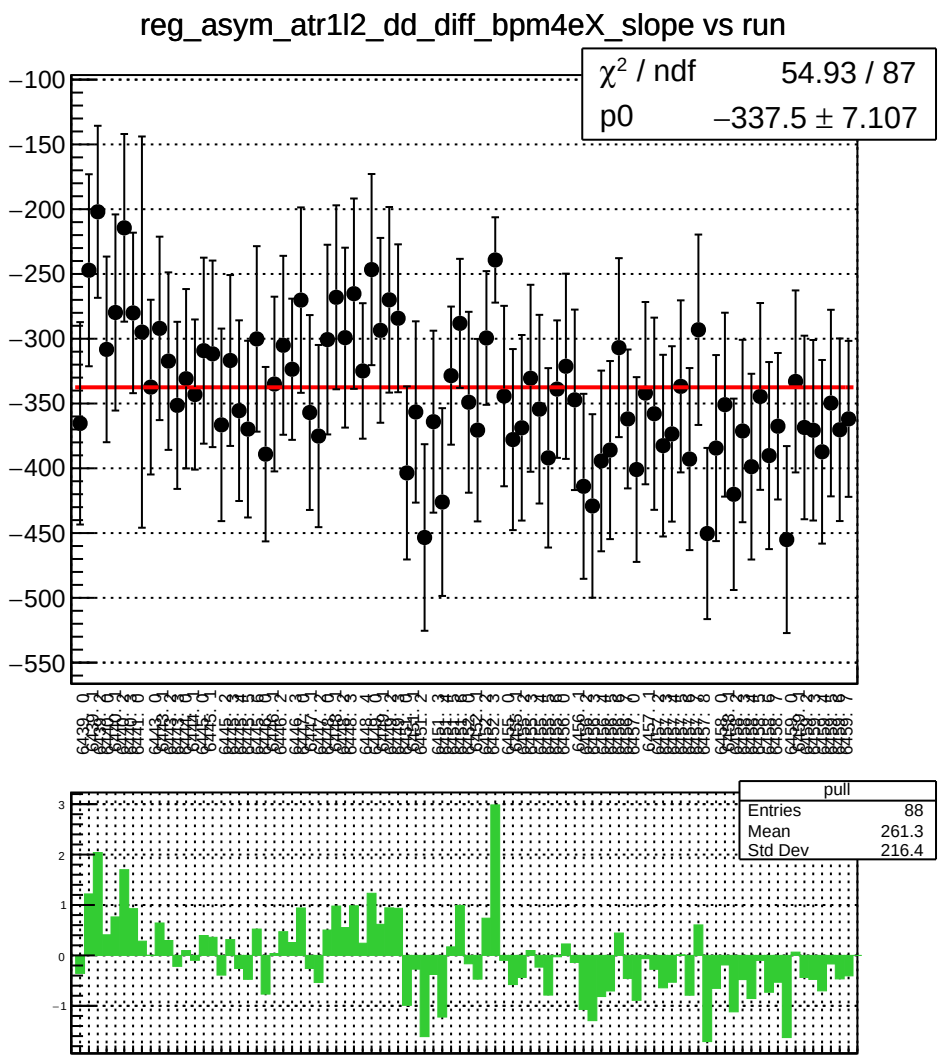

pull1D
Entries 88
Mean −0.01303
Std Dev 0.9873

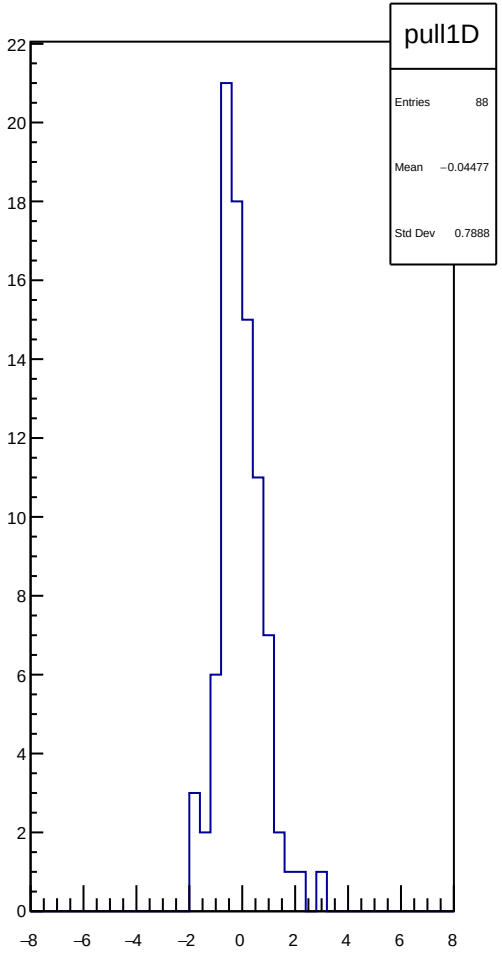

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 119.2 / 87
p0 −179.3 ± 0.2291
−170
−175
−180
−185
−190
pull
Entries 88
Mean −2.362e+04
Std Dev 2.366e+04
pull1D
Entries 88
Mean 0.0004215
Std Dev 1.164

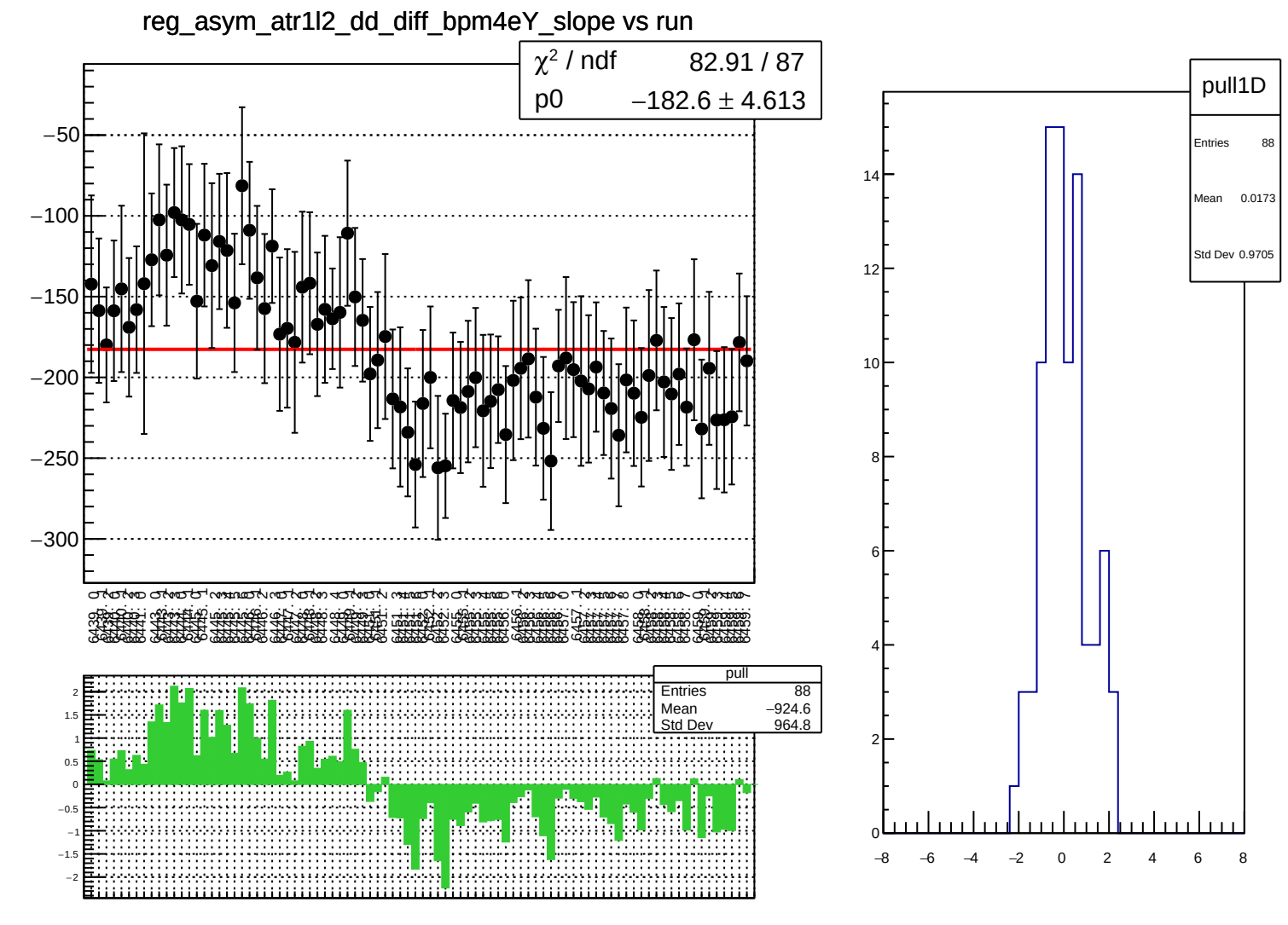

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 48.8 / 87
p0 290.7 ± 6.544
pull
Entries 88
Mean 218.7
Std Dev 173.2
pull1D
Entries 88
Mean 0.04685
Std Dev 0.7432

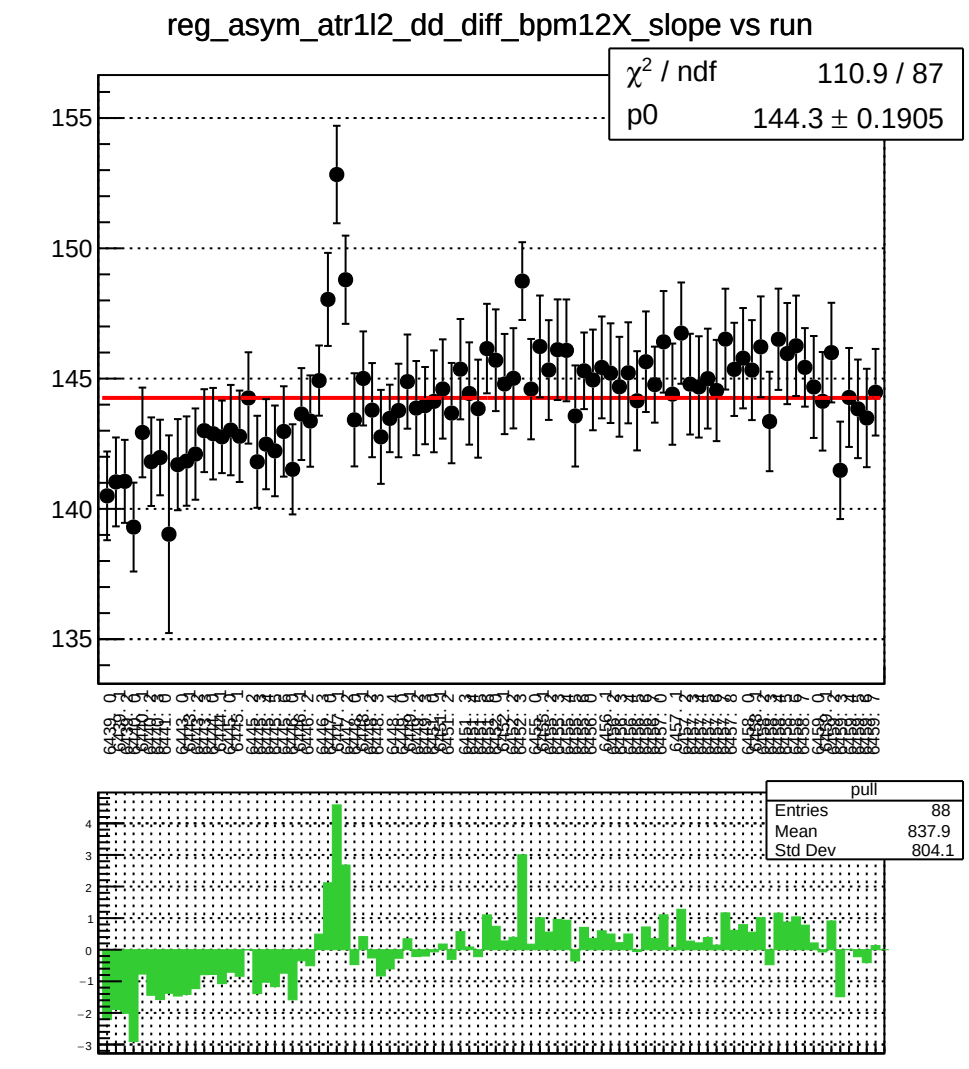

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 44.14 / 87
p0 58.41 ± 4.593
150
100
50
0
−50
−100
pull
Entries 88
Mean −649.5
Std Dev 688
2
1.5
1
0.5
0
−0.5
−1
−1.5

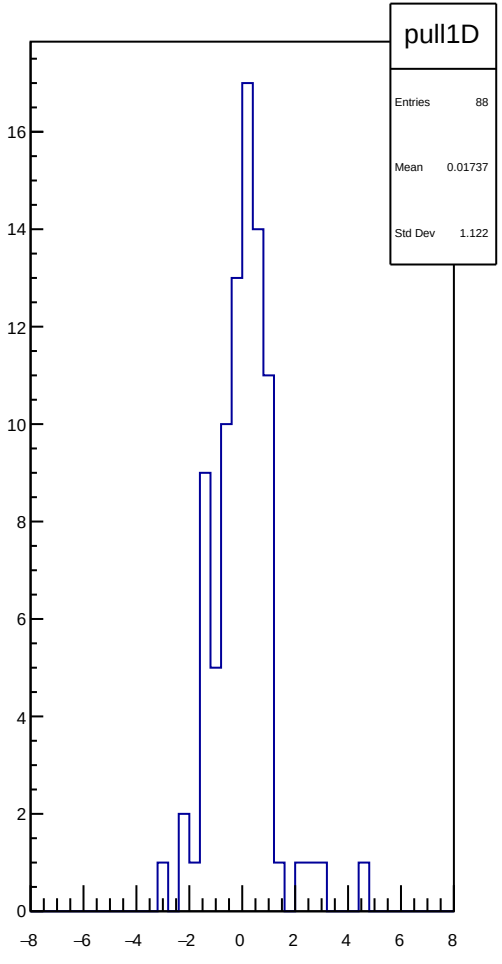

pull1D
Entries 88
Mean −0.01312
Std Dev 0.7081
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

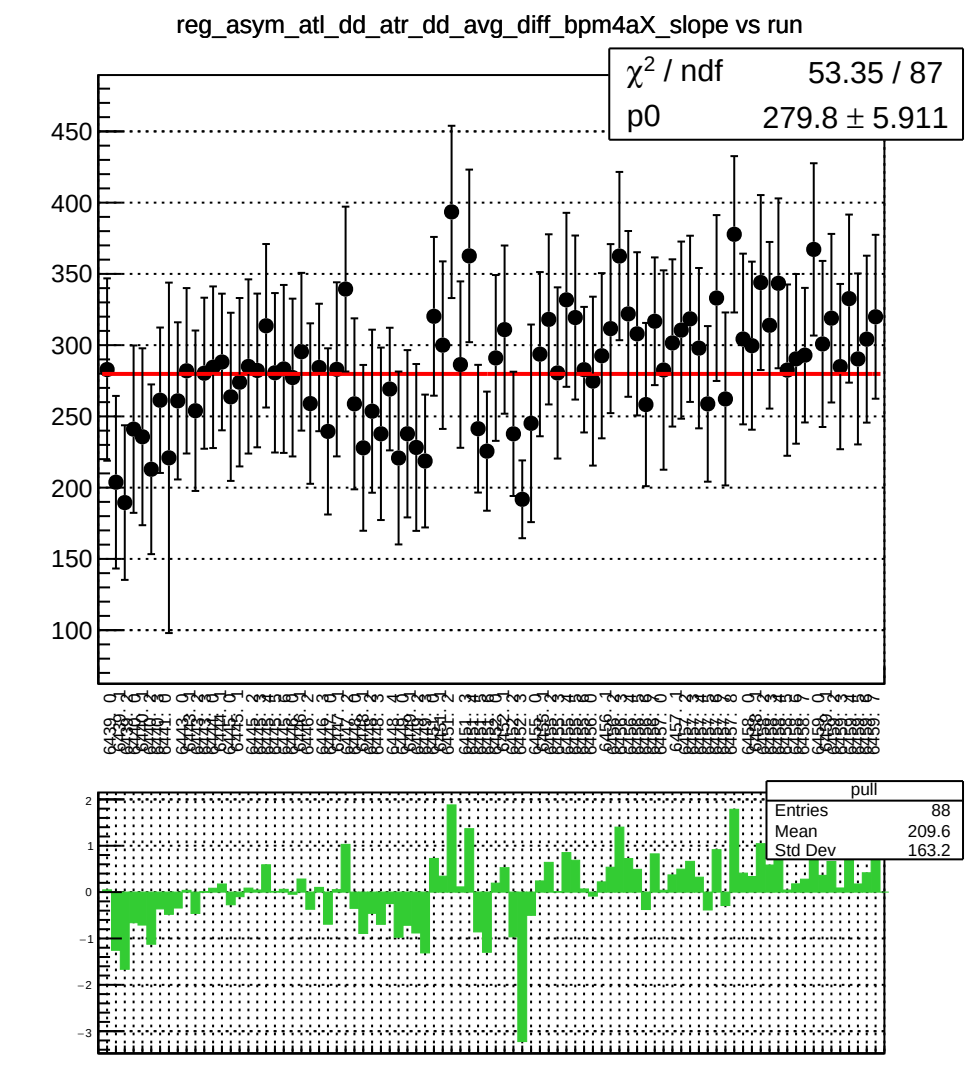

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.93 / 87
p0 −337.5 ± 7.107
pull
Entries 88
Mean 261.3
Std Dev 216.4

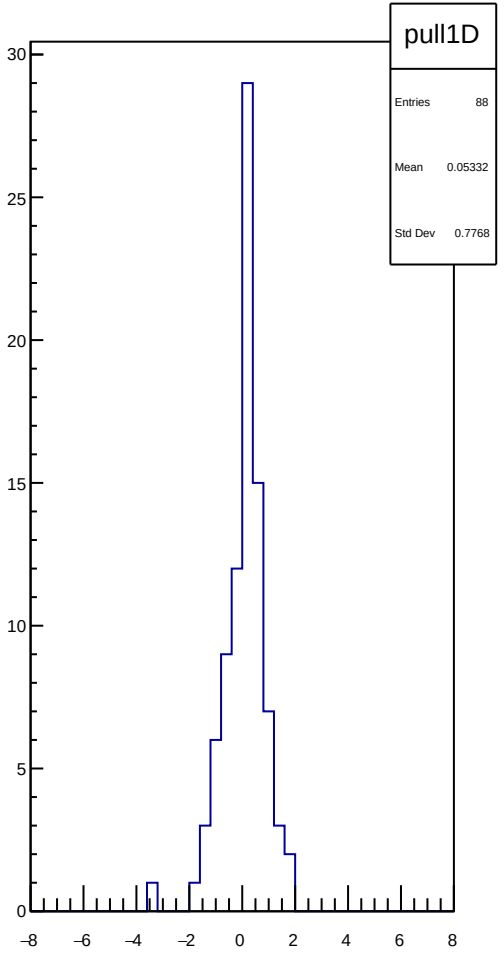

pull1D
Entries 88
Mean −0.04477
Std Dev 0.7888

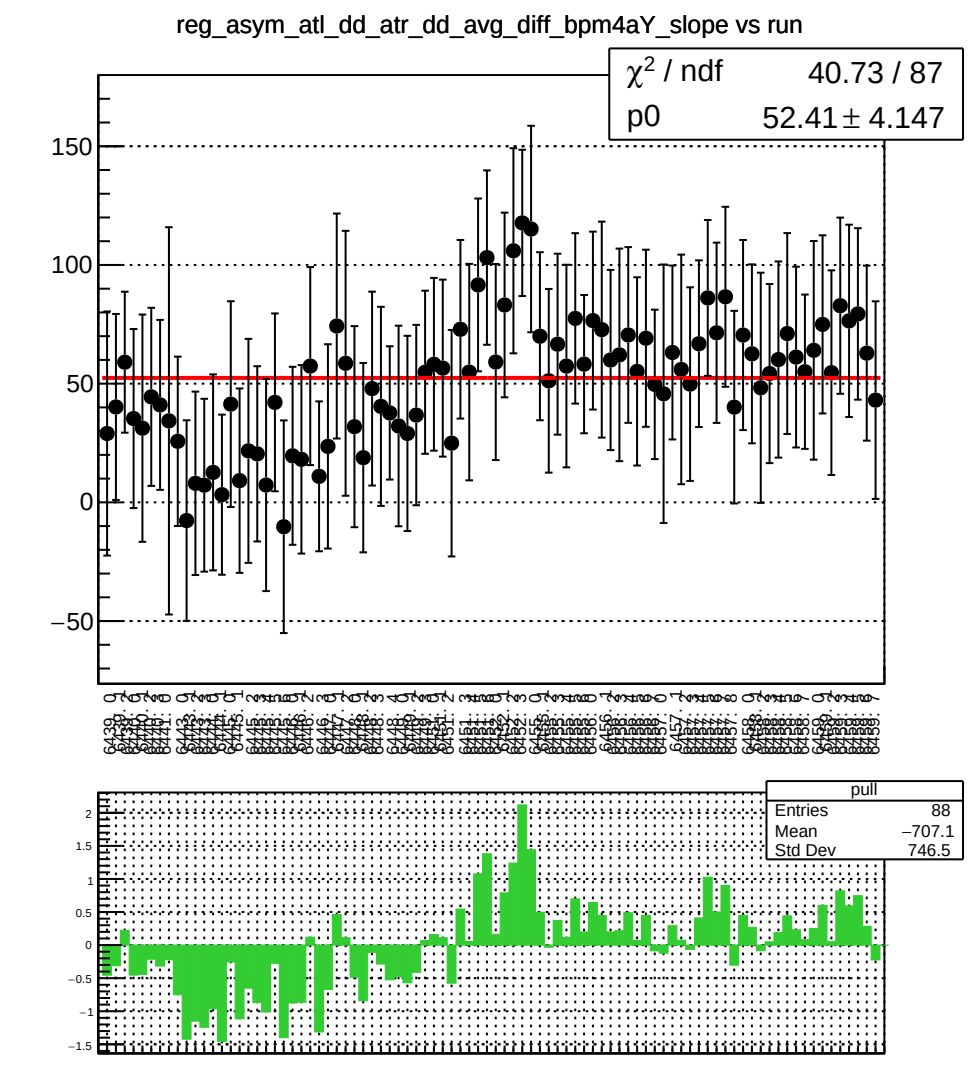

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.91 / 87
p0 −182.6 ± 4.613
pull
Entries 88
Mean −924.6
Std Dev 964.8
pull1D
Entries 88
Mean 0.0173
Std Dev 0.9705

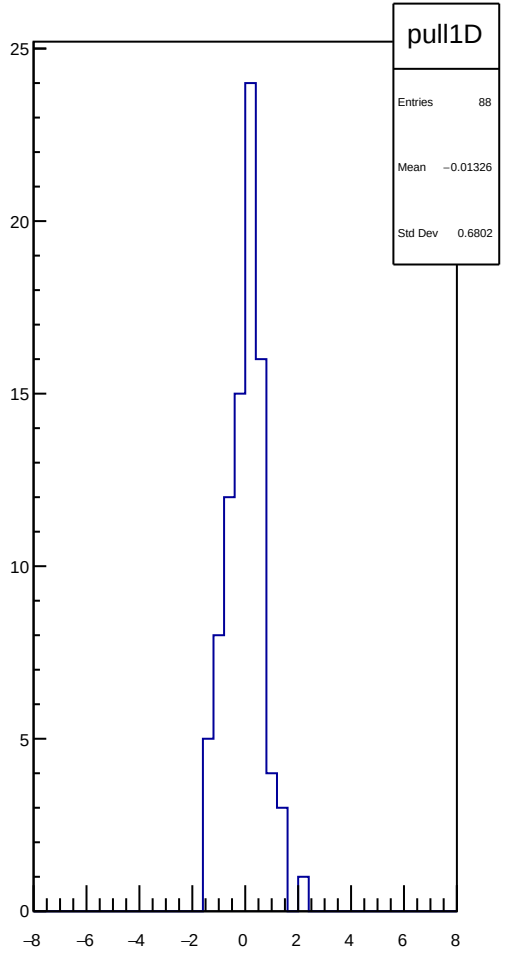

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 110.9 / 87
p0 144.3 ± 0.1905
155
150
145
140
135
pull
Entries 88
Mean 837.9
Std Dev 804.1
4
3
2
1
0
−1
−2
−3

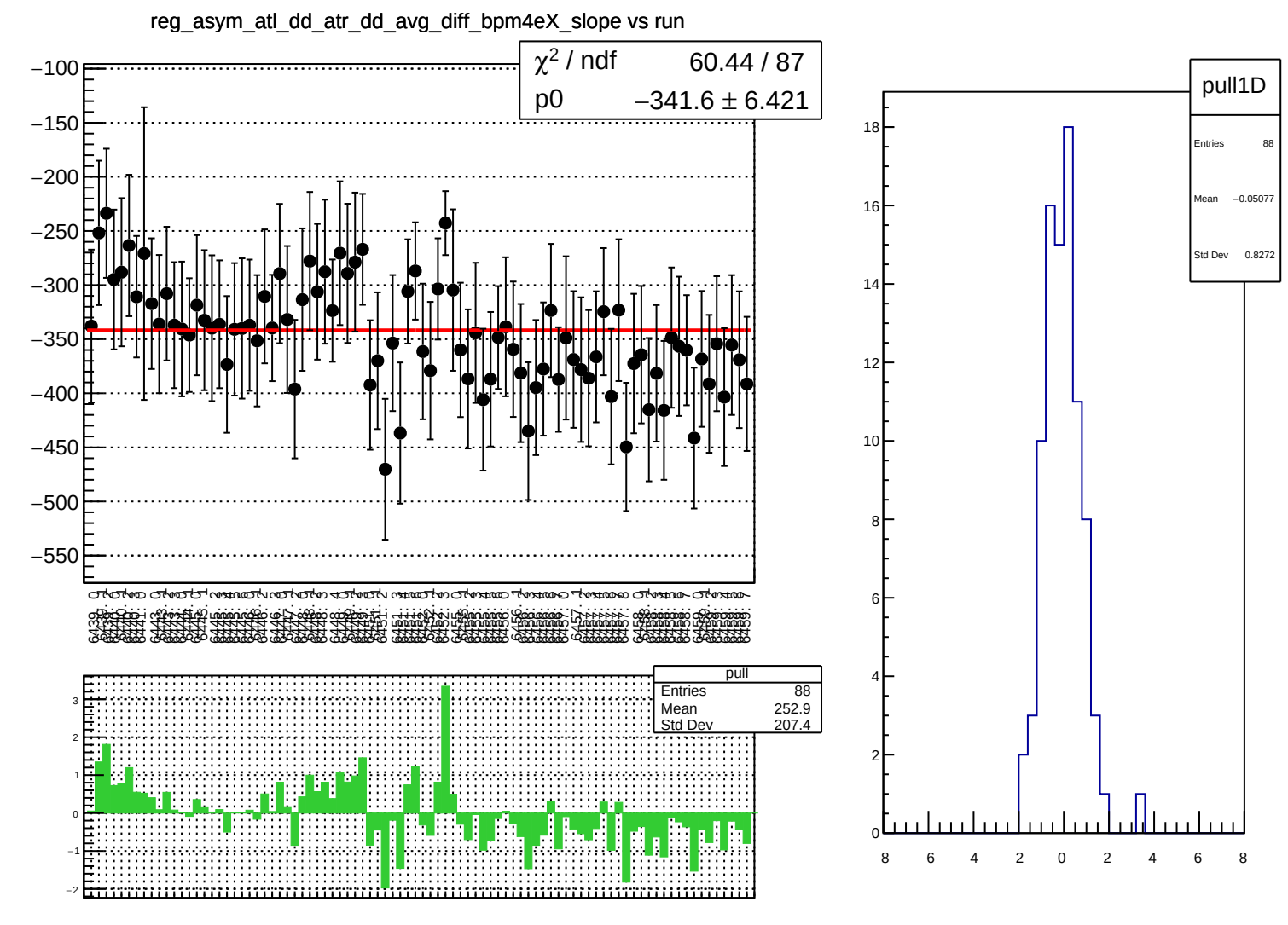

pull1D
Entries 88
Mean 0.01737
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

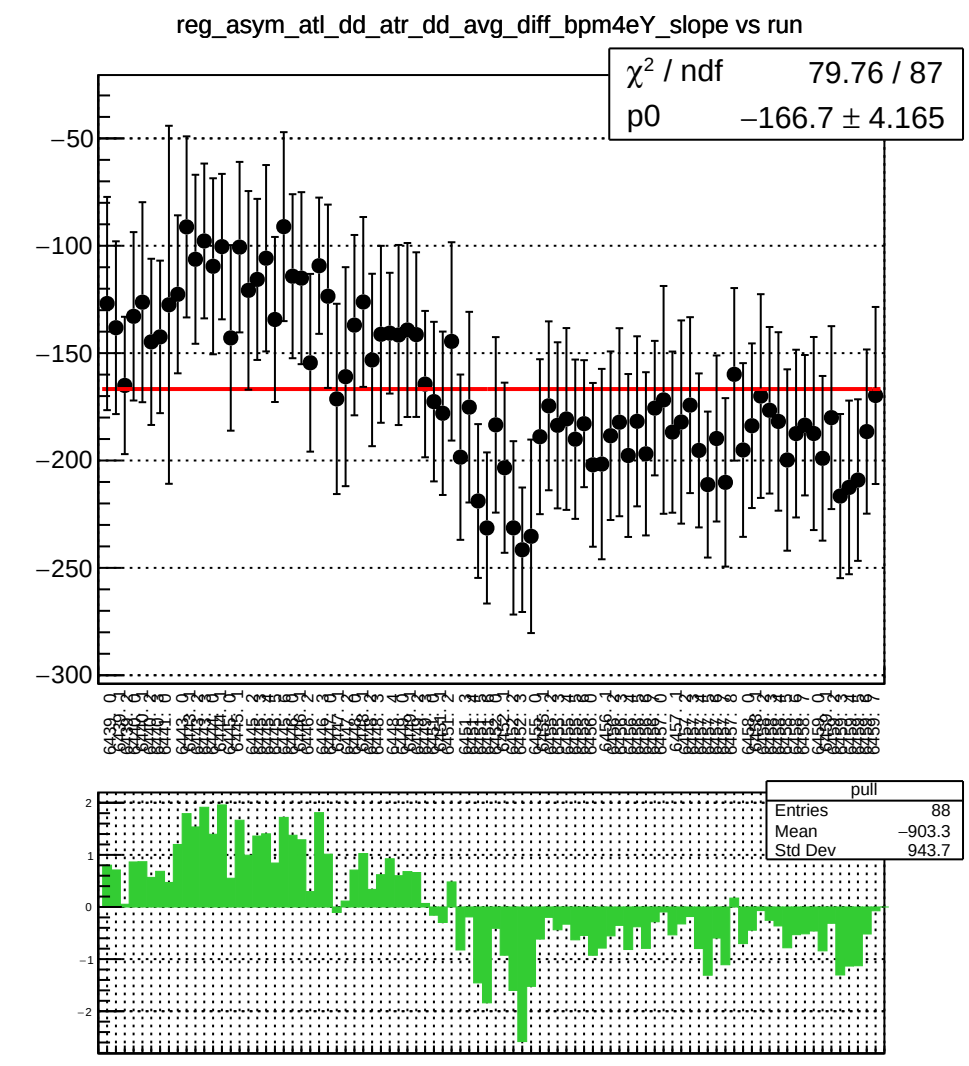

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 53.35 / 87
p0 279.8 ± 5.911
pull
Entries 88
Mean 209.6
Std Dev 163.2

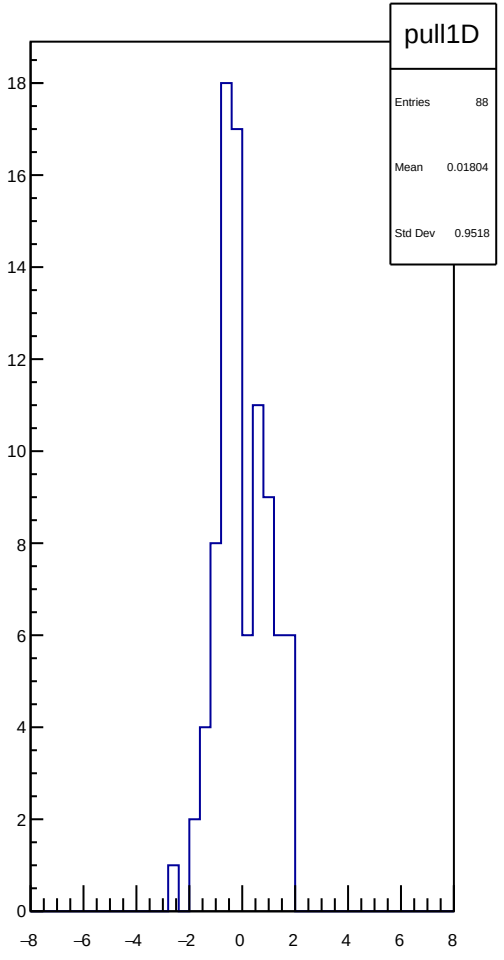

pull1D
Entries 88
Mean 0.05332
Std Dev 0.7768

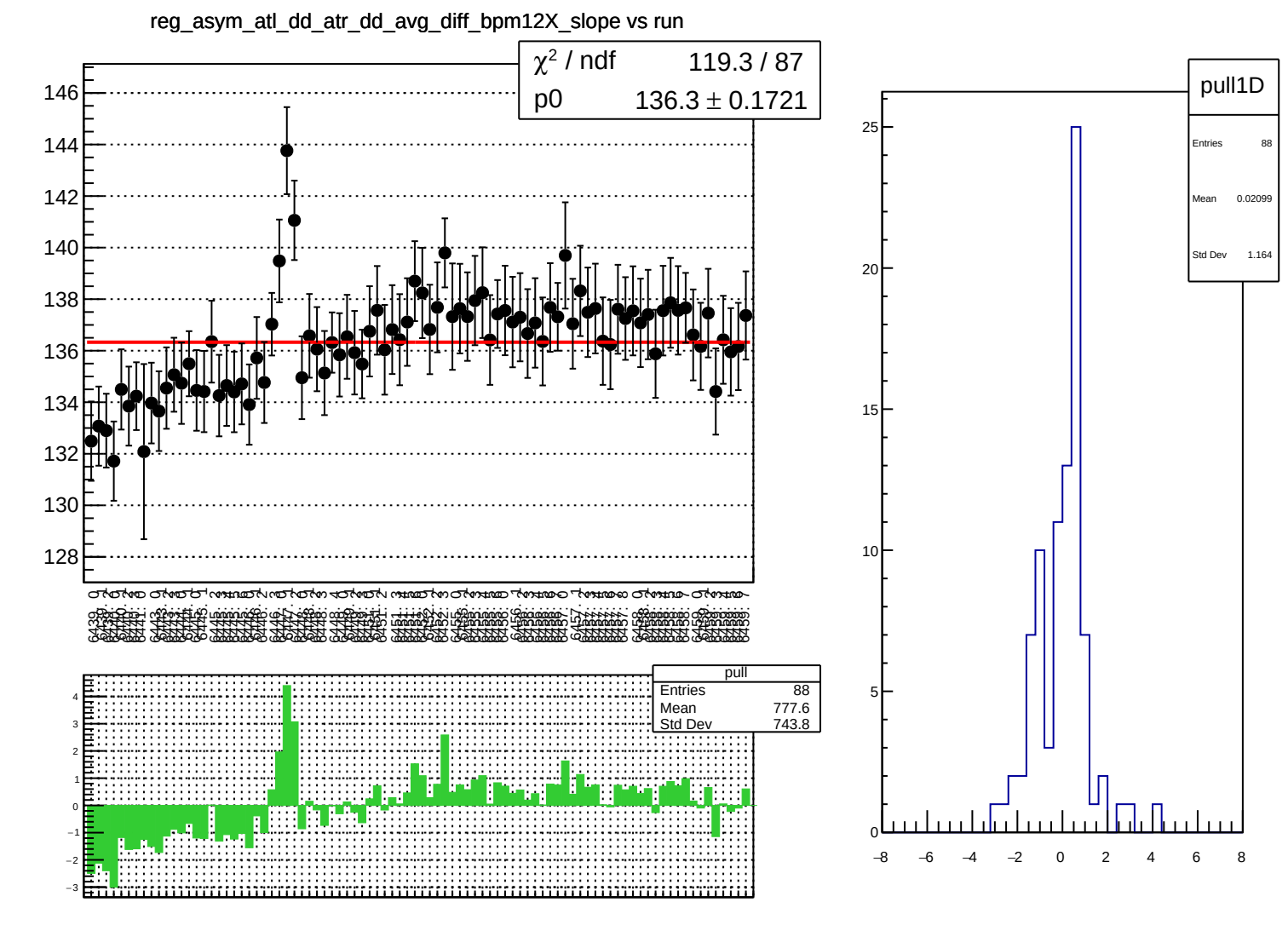

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.73 / 87
p0 52.41 ± 4.147
150
100
50
0
−50
pull
Entries 88
Mean −707.1
Std Dev 746.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

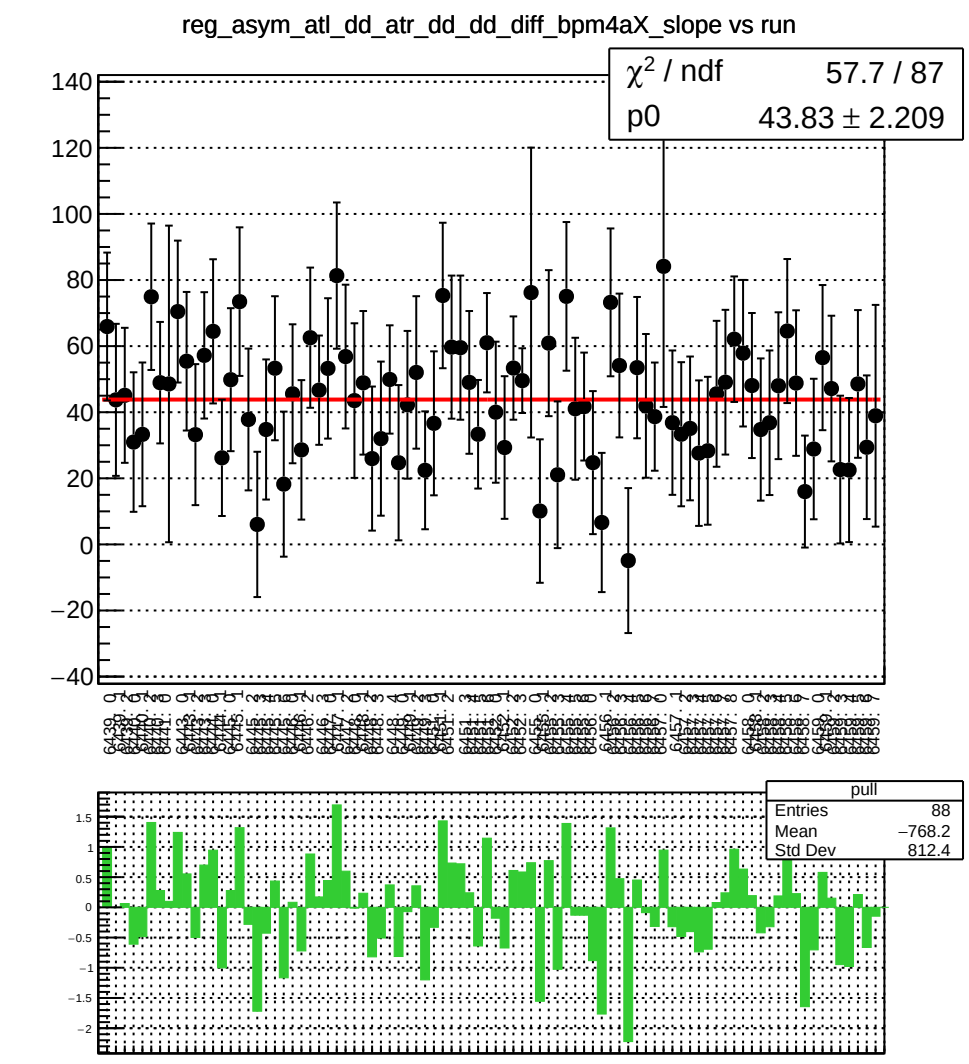

pull1D
Entries 88
Mean −0.01326
Std Dev 0.6802
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

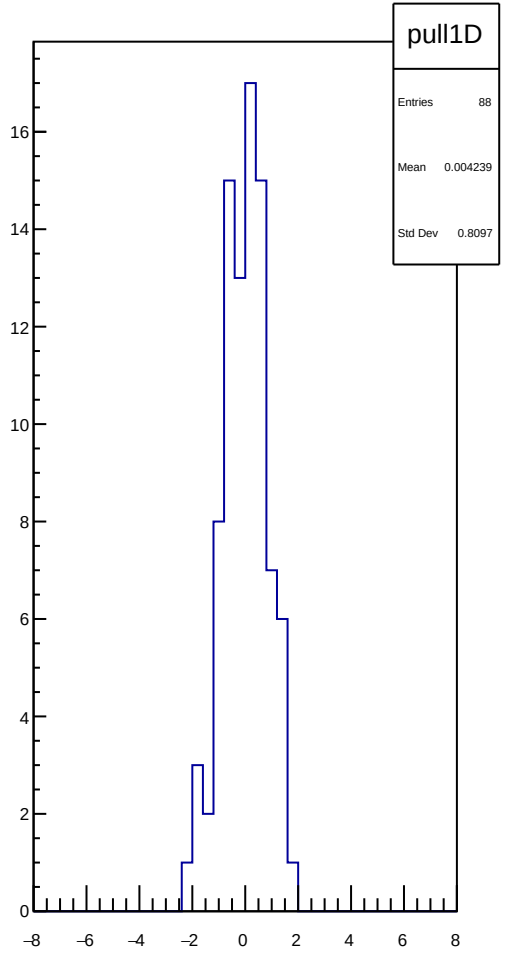

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.44 / 87
p0 −341.6 ± 6.421
pull
Entries 88
Mean 252.9
Std Dev 207.4
pull1D
Entries 88
Mean −0.05077
Std Dev 0.8272

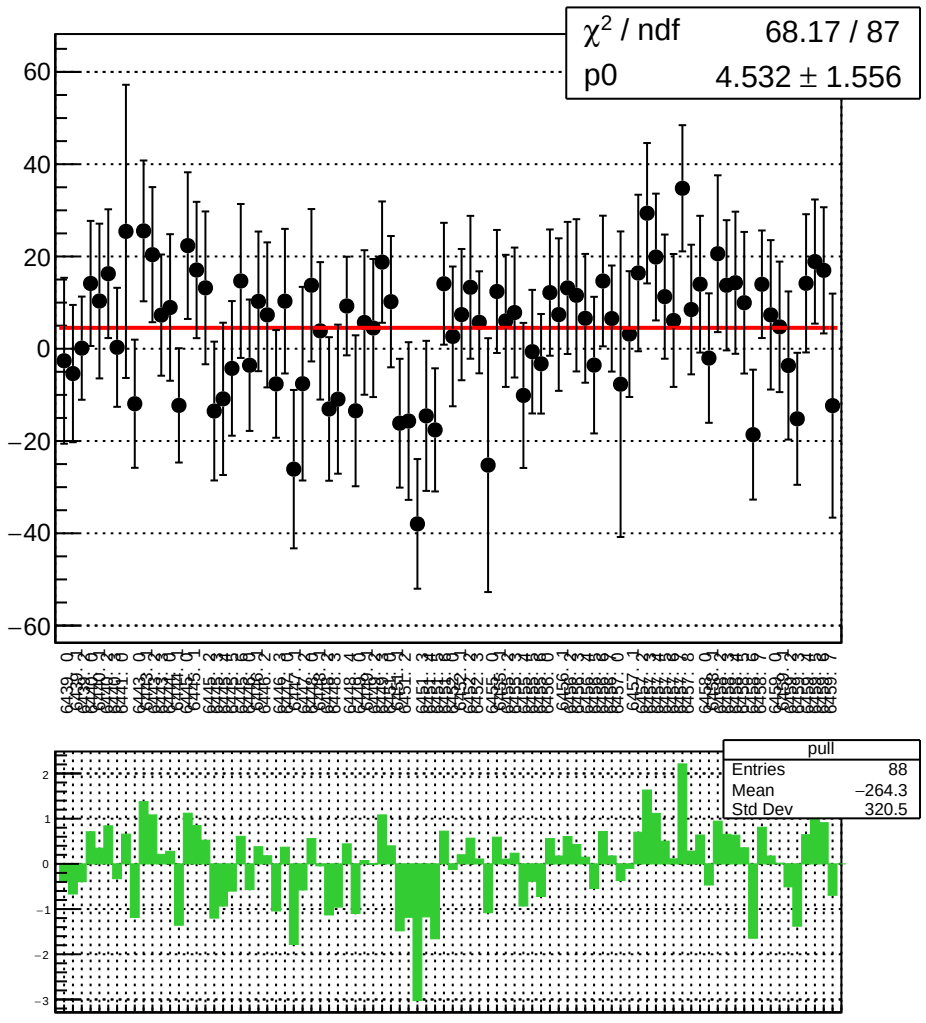

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.76 / 87
p0 −166.7 ± 4.165
pull
Entries 88
Mean −903.3
Std Dev 943.7

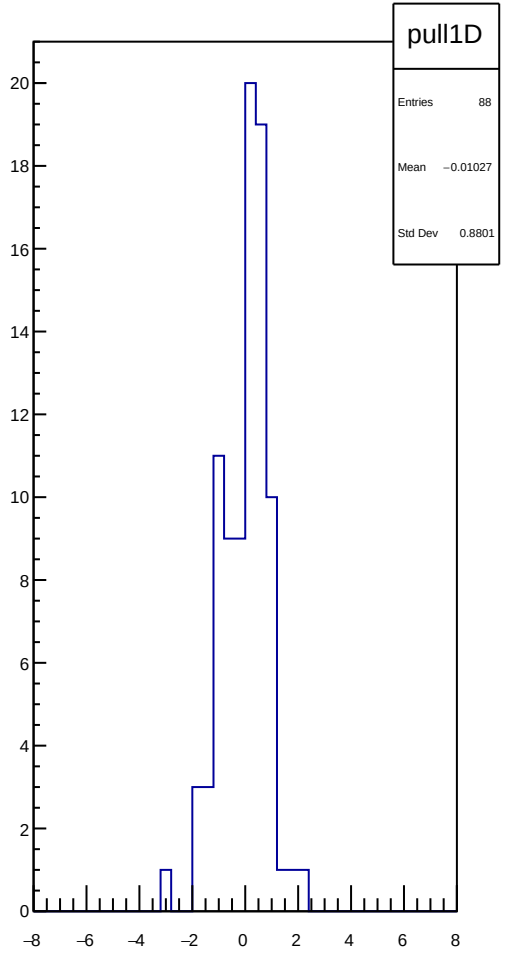

pull1D
Entries 88
Mean 0.01804
Std Dev 0.9518

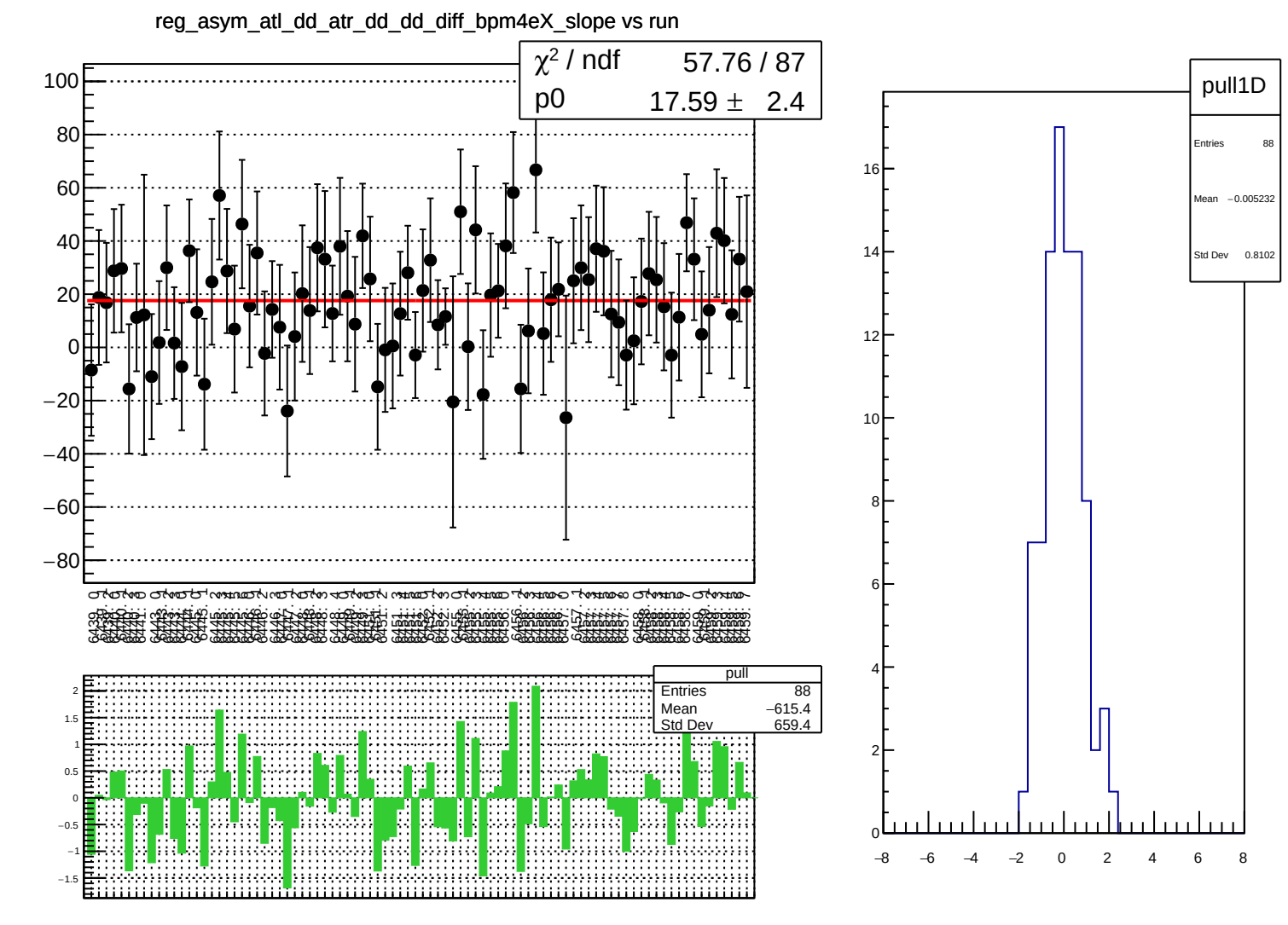

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 119.3 / 87
p0 136.3 ± 0.1721
pull
Entries 88
Mean 777.6
Std Dev 743.8
pull1D
Entries 88
Mean 0.02099
Std Dev 1.164

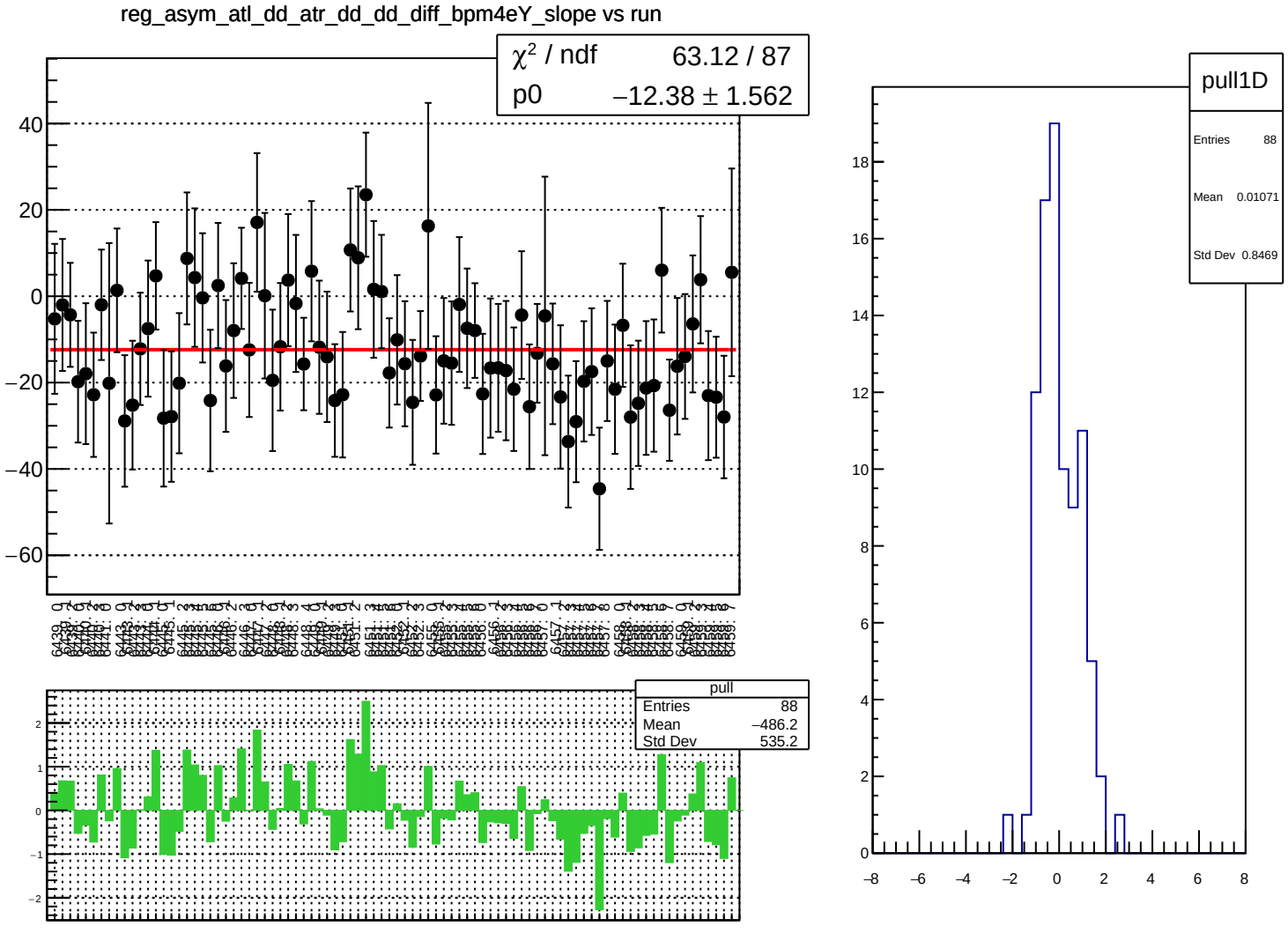

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 57.7 / 87
p0 43.83 ± 2.209
pull
Entries 88
Mean −768.2
Std Dev 812.4

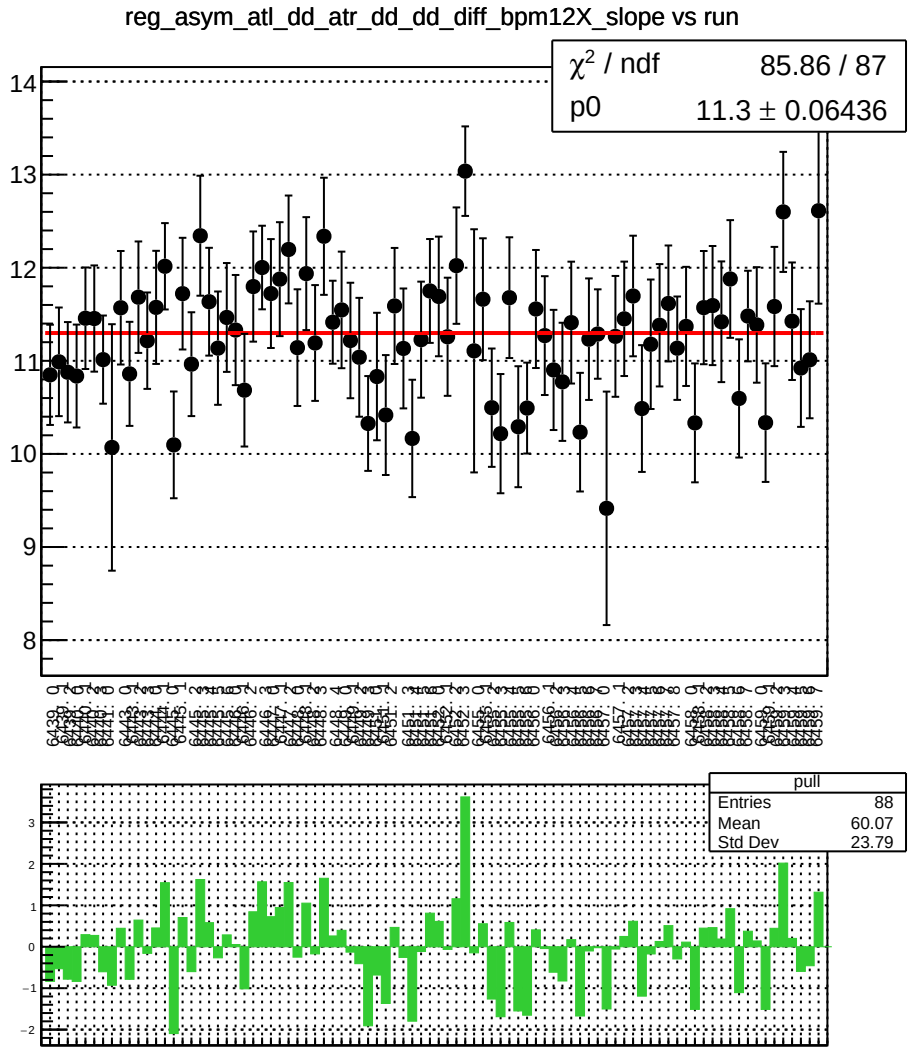

pull1D
Entries 88
Mean 0.004239
Std Dev 0.8097

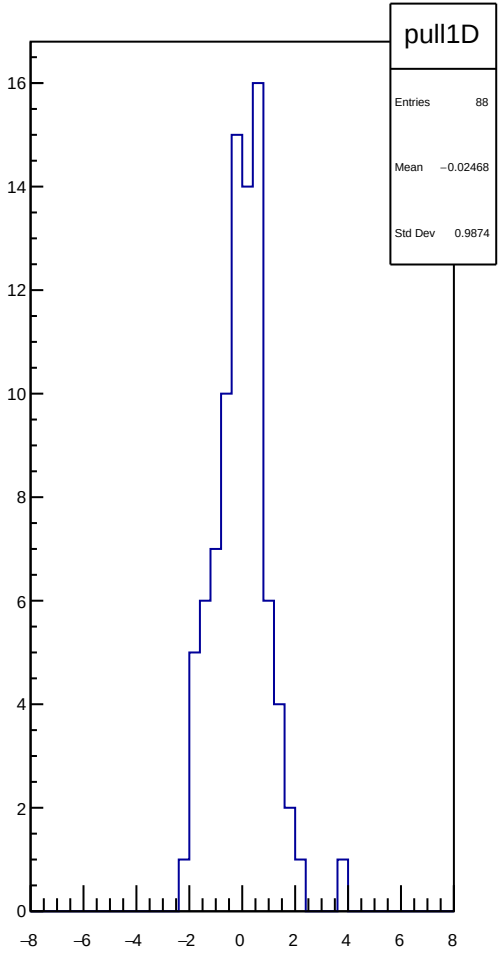

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 68.17 / 87
p0 4.532 ± 1.556
pull
Entries 88
Mean −264.3
Std Dev 320.5

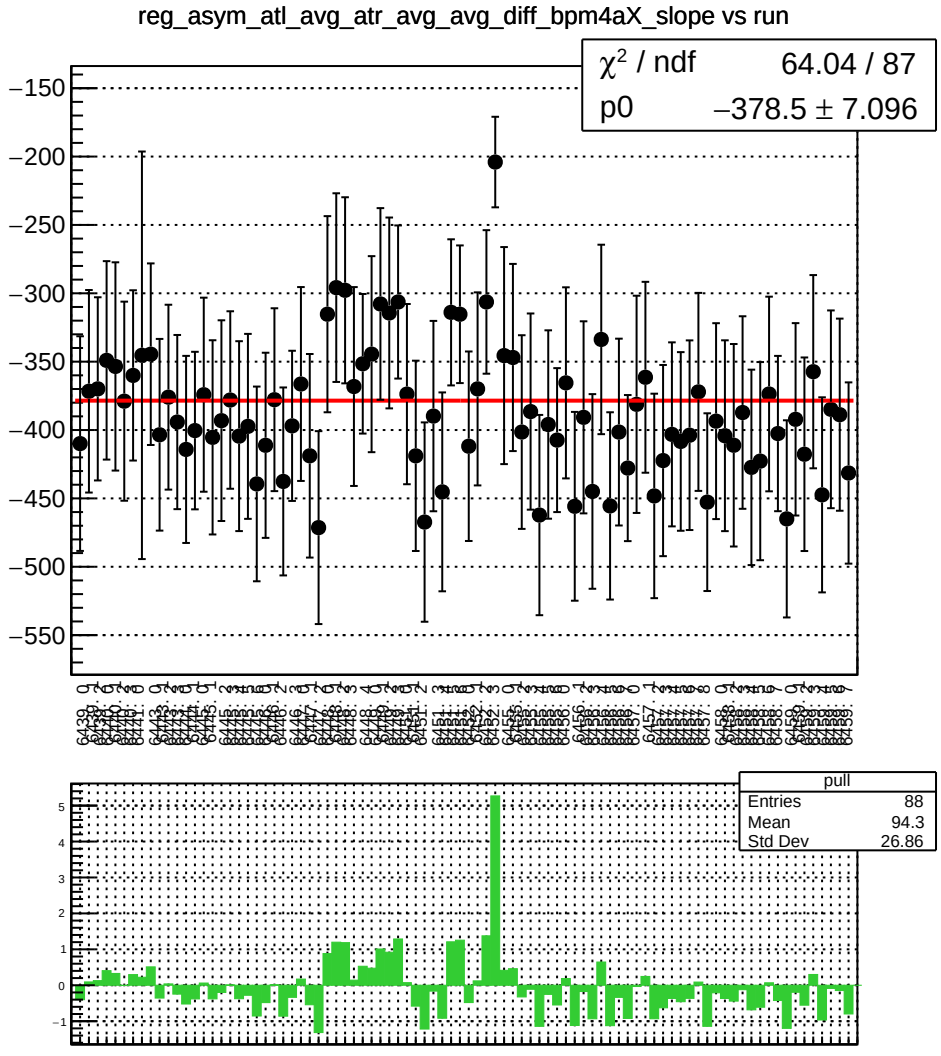

pull1D
Entries 88
Mean −0.01027
Std Dev 0.8801

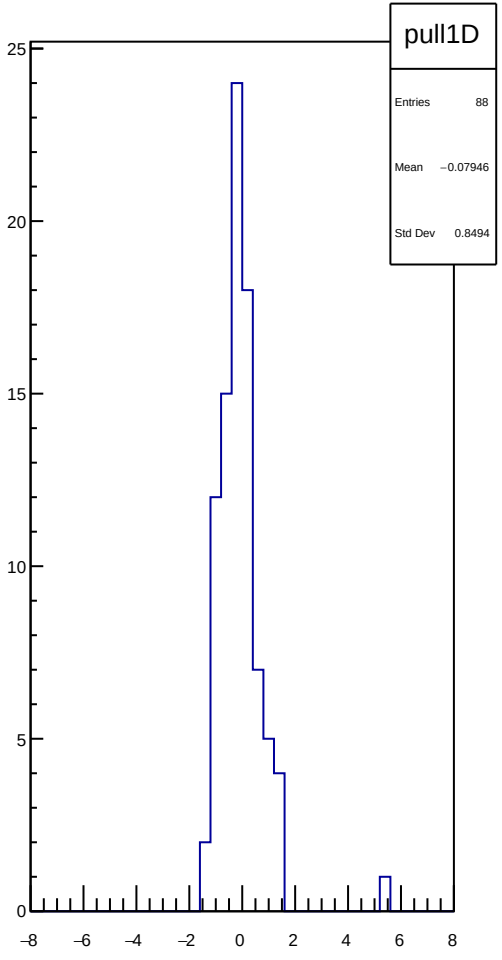

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.76 / 87
p0 17.59 ± 2.4
pull
Entries 88
Mean −615.4
Std Dev 659.4
pull1D
Entries 88
Mean −0.005232
Std Dev 0.8102

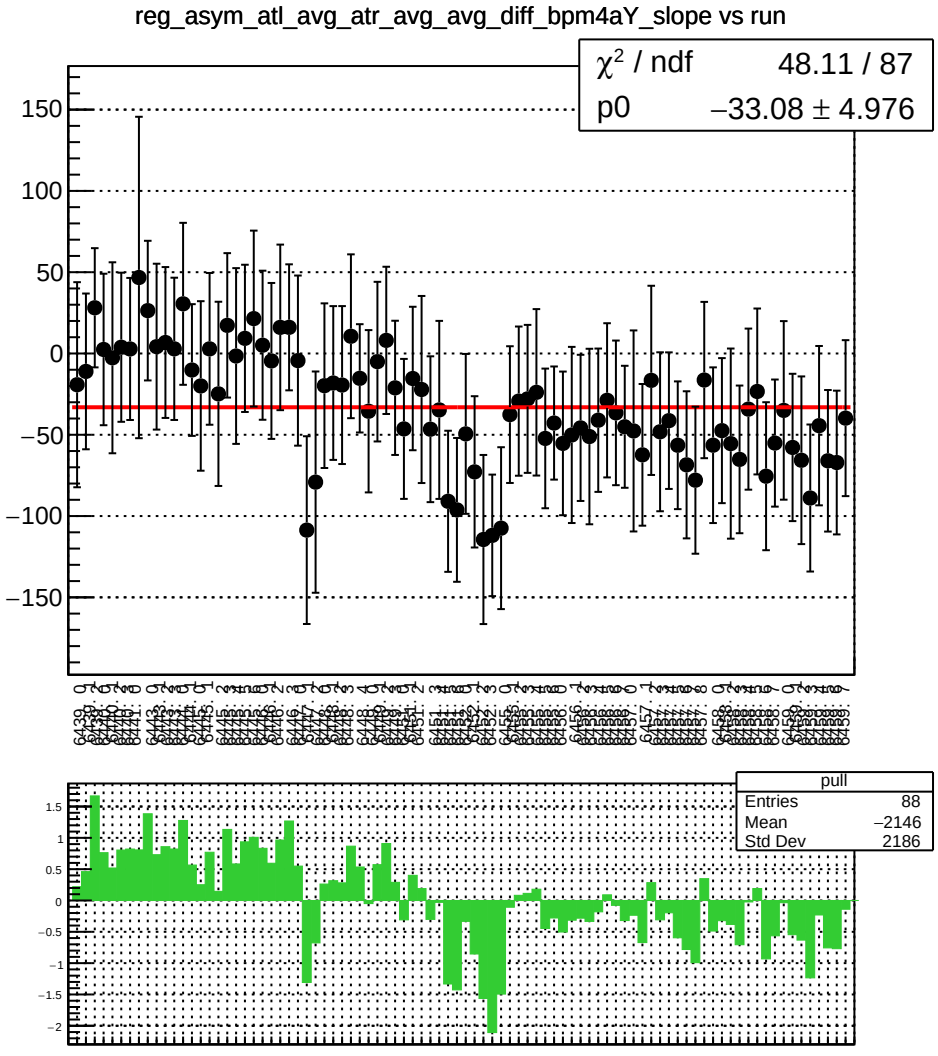

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 63.12 / 87
p0 −12.38 ± 1.562
pull
Entries 88
Mean −486.2
Std Dev 535.2
pull1D
Entries 88
Mean 0.01071
Std Dev 0.8469

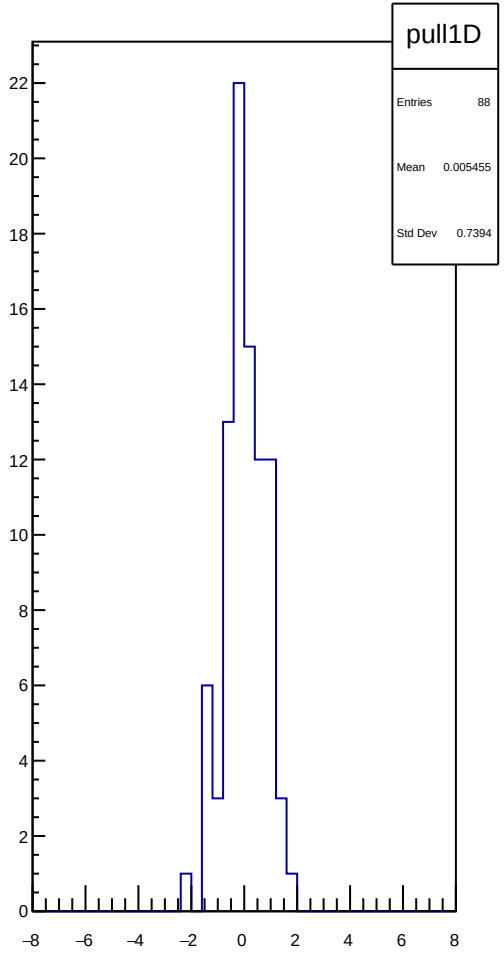

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 85.86 / 87
p0 11.3 ± 0.06436
pull
Entries 88
Mean 60.07
Std Dev 23.79

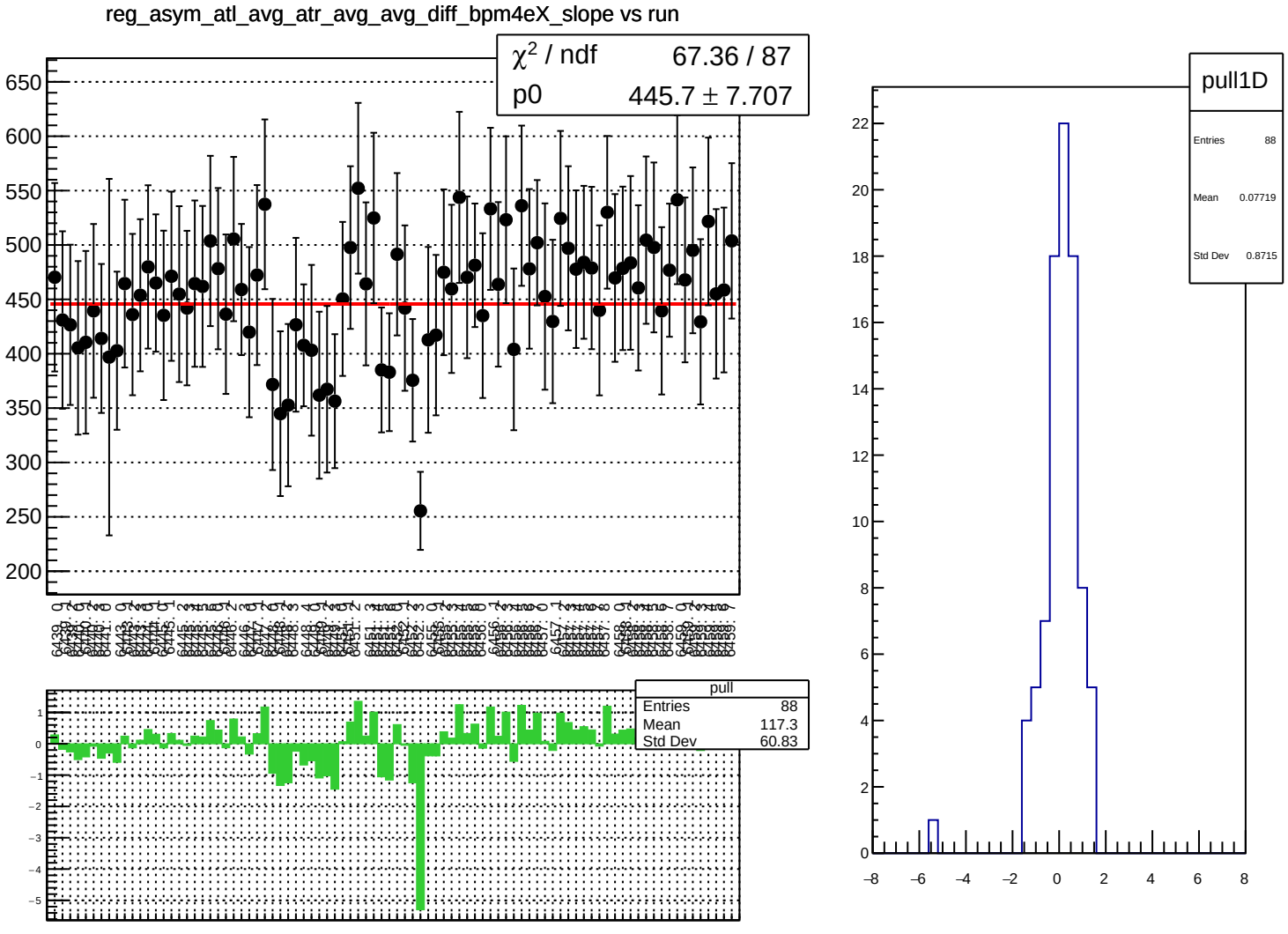

pull1D
Entries 88
Mean −0.02468
Std Dev 0.9874

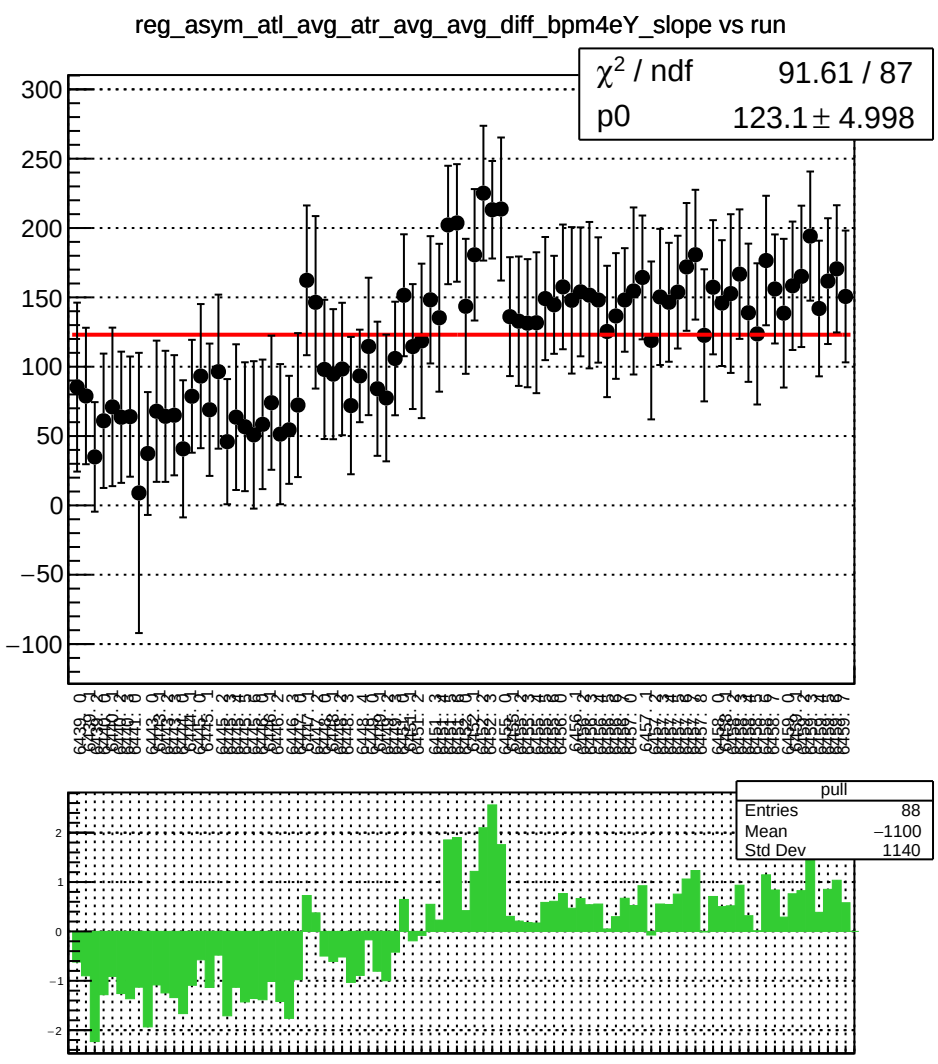

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 64.04 / 87
p0 −378.5 ± 7.096
pull
Entries 88
Mean 94.3
Std Dev 26.86

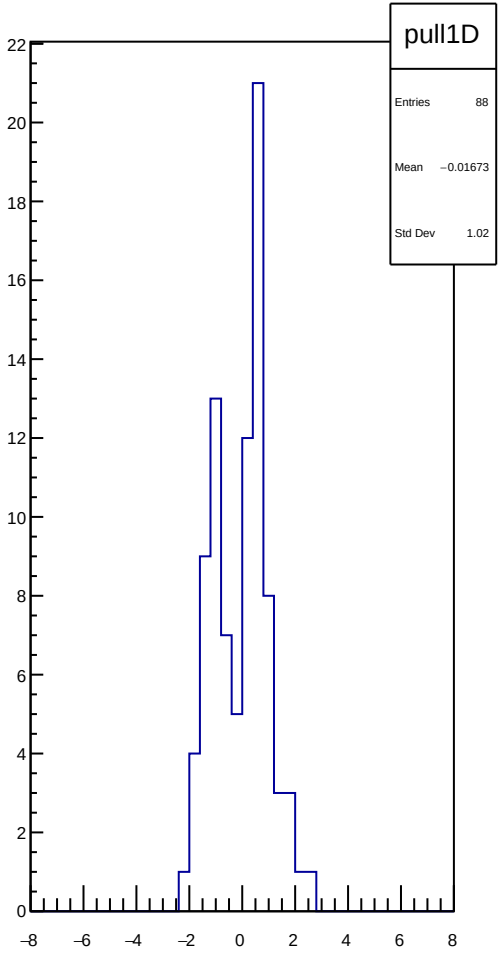

pull1D
Entries 88
Mean −0.07946
Std Dev 0.8494

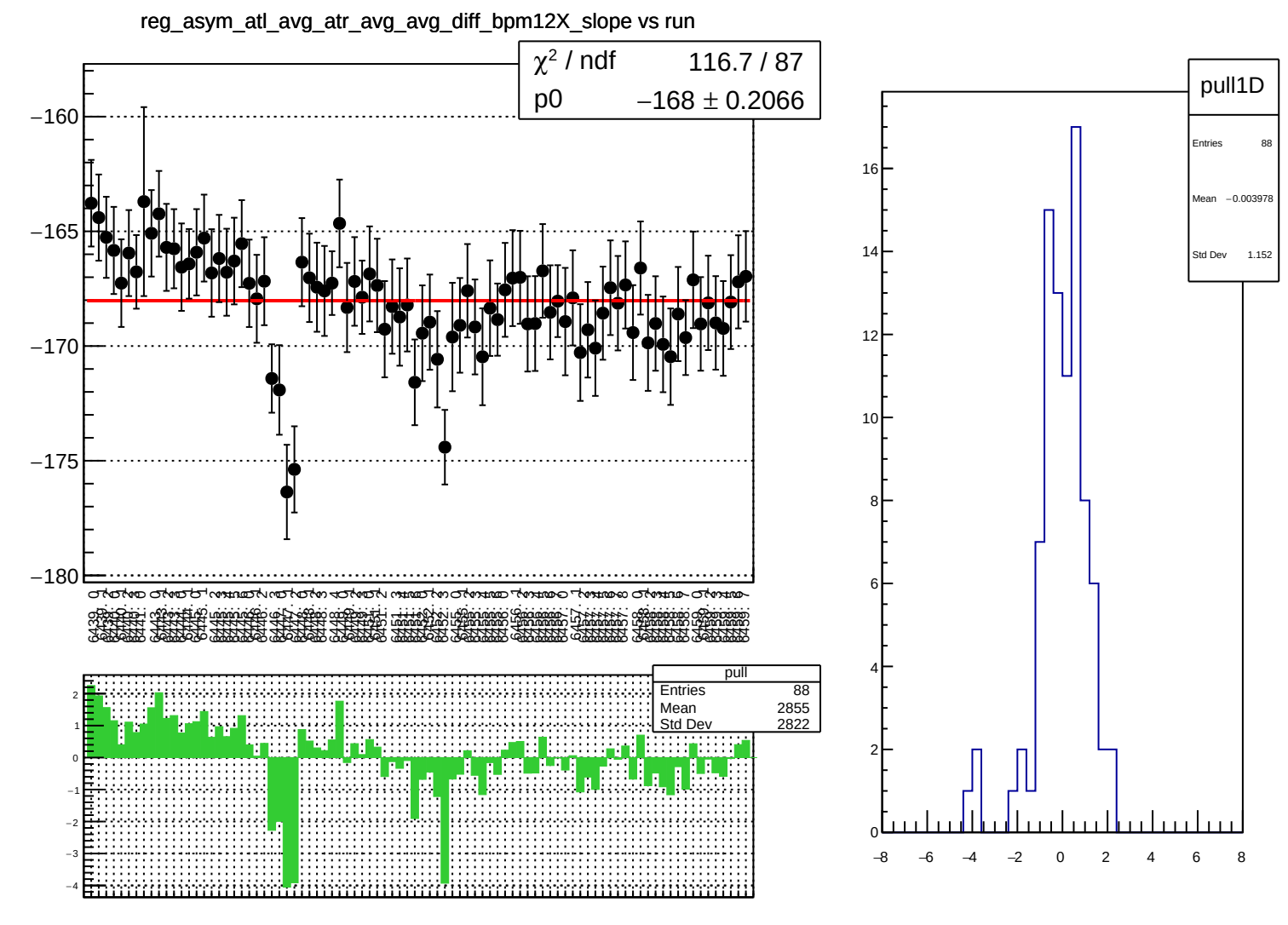

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.11 / 87
p0 −33.08 ± 4.976
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −2146
Std Dev 2186
1.5
1
0.5
0
−0.5
−1
−1.5
−2

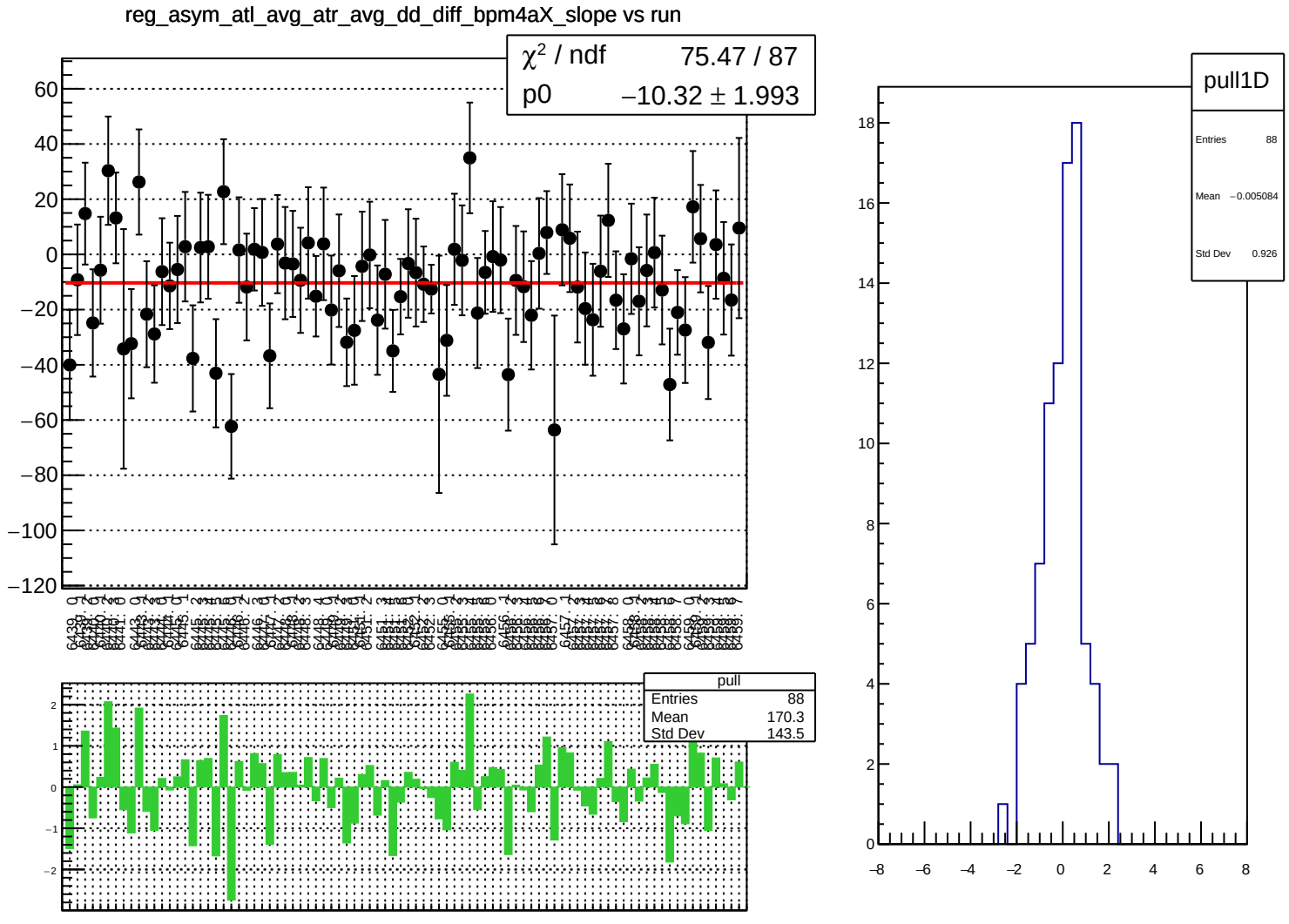

pull1D
Entries 88
Mean 0.005455
Std Dev 0.7394
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

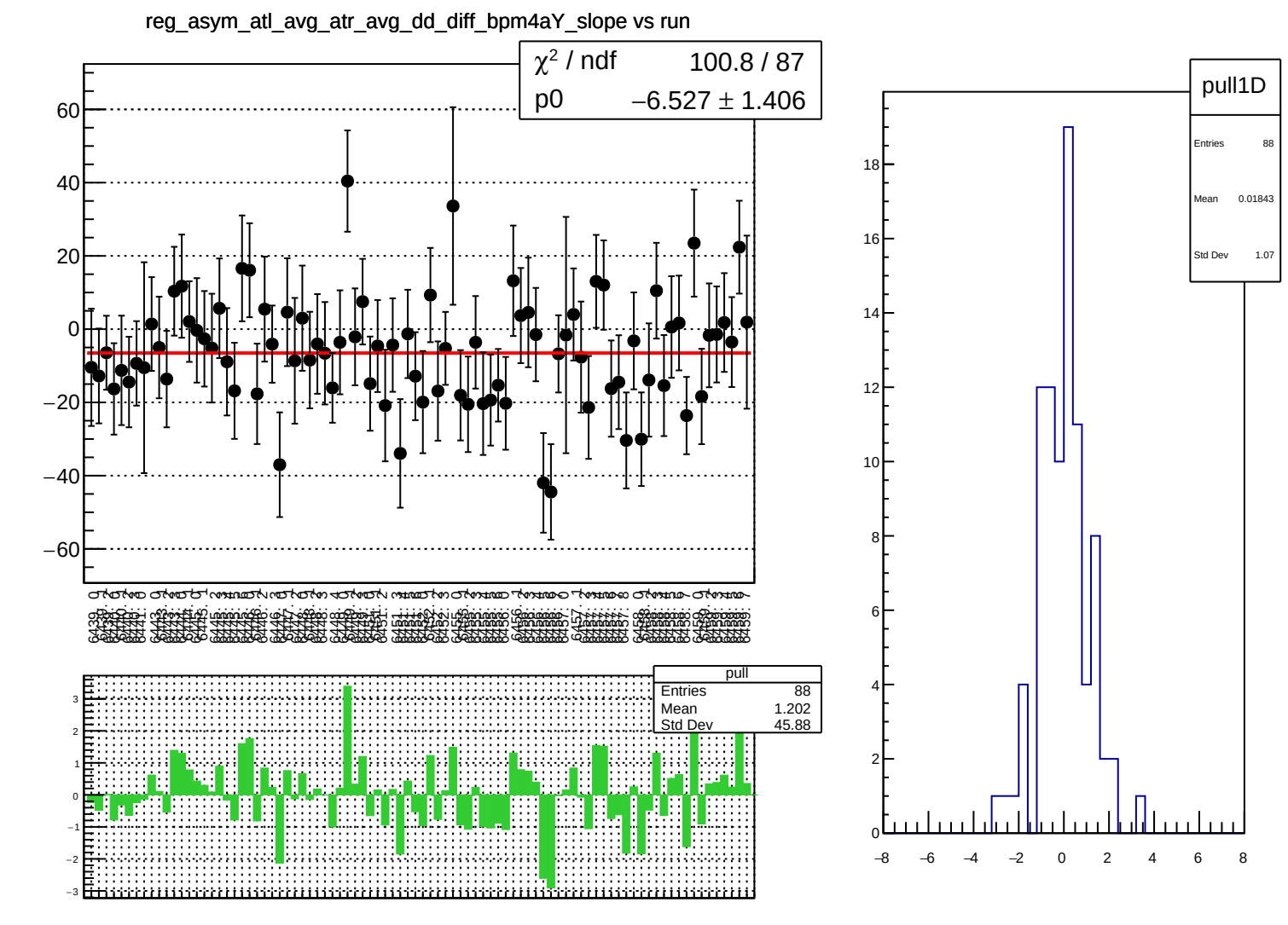

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 67.36 / 87
p0 445.7 ± 7.707
650
600
550
500
450
400
350
300
250
200
pull
Entries 88
Mean 117.3
Std Dev 60.83
1
0
−1
−2
−3
−4
−5
pull1D
Entries 88
Mean 0.07719
Std Dev 0.8715
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

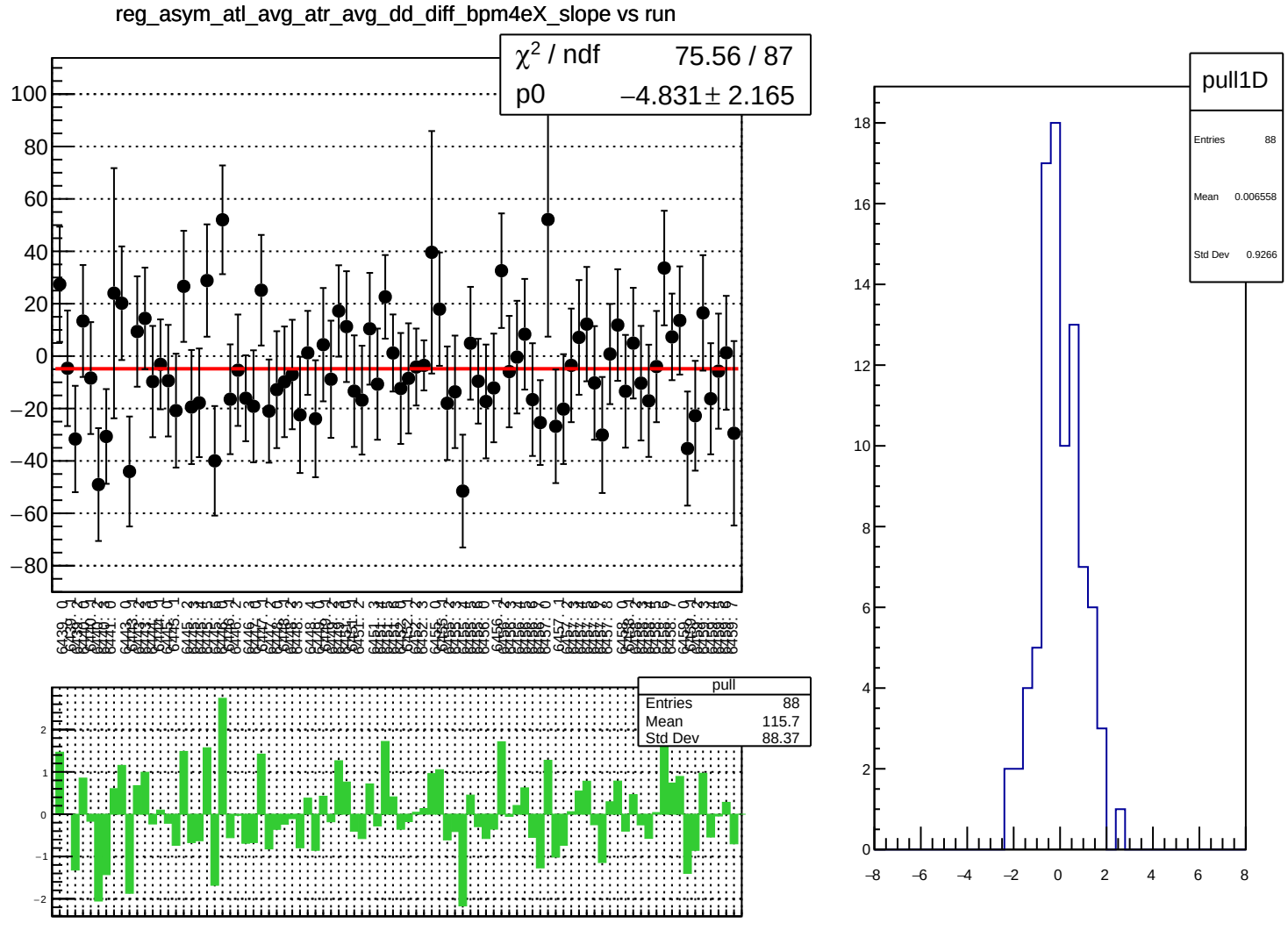

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.61 / 87
p0 123.1 ± 4.998
pull
Entries 88
Mean −1100
Std Dev 1140

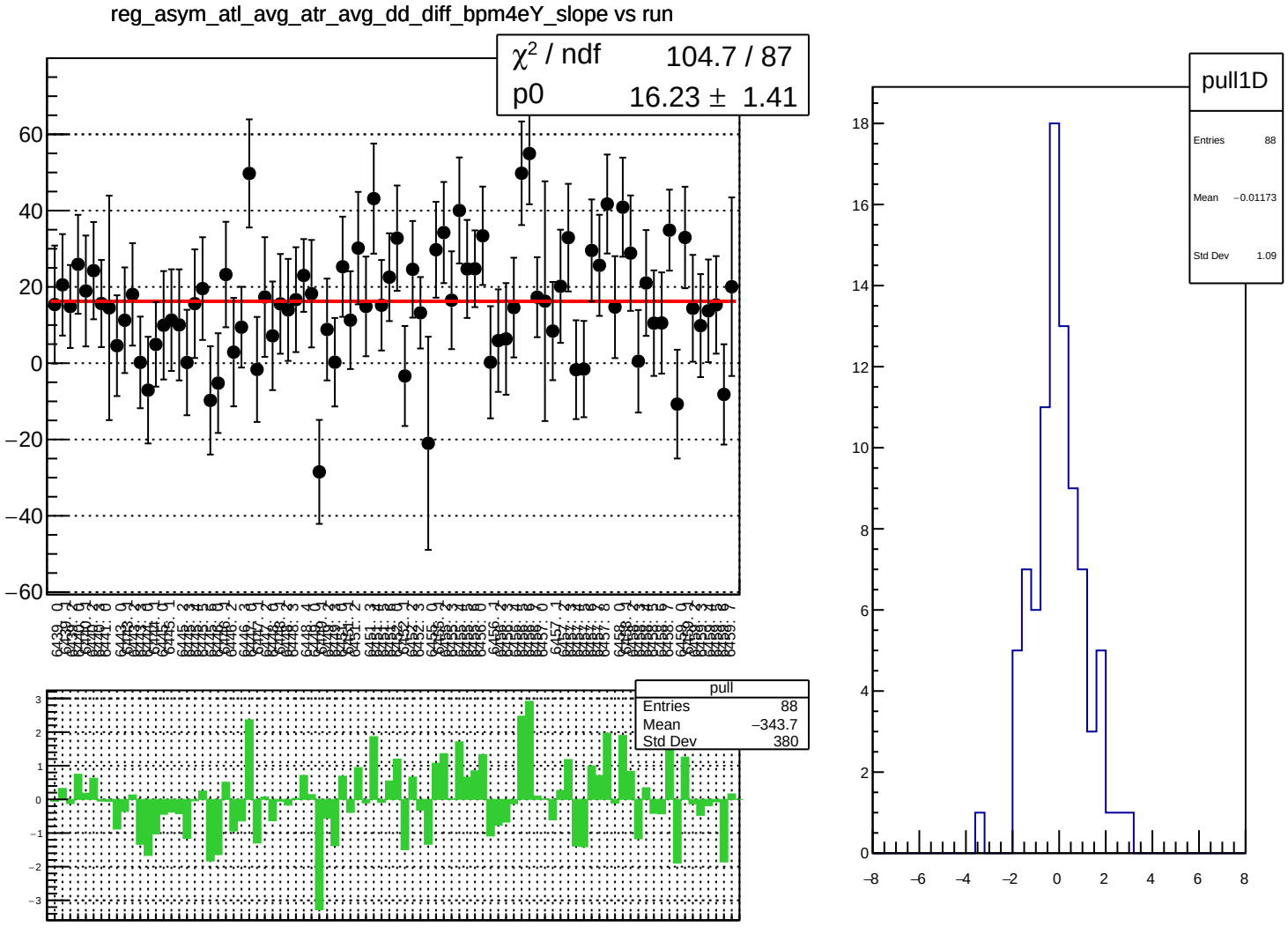

pull1D
Entries 88
Mean −0.01673
Std Dev 1.02

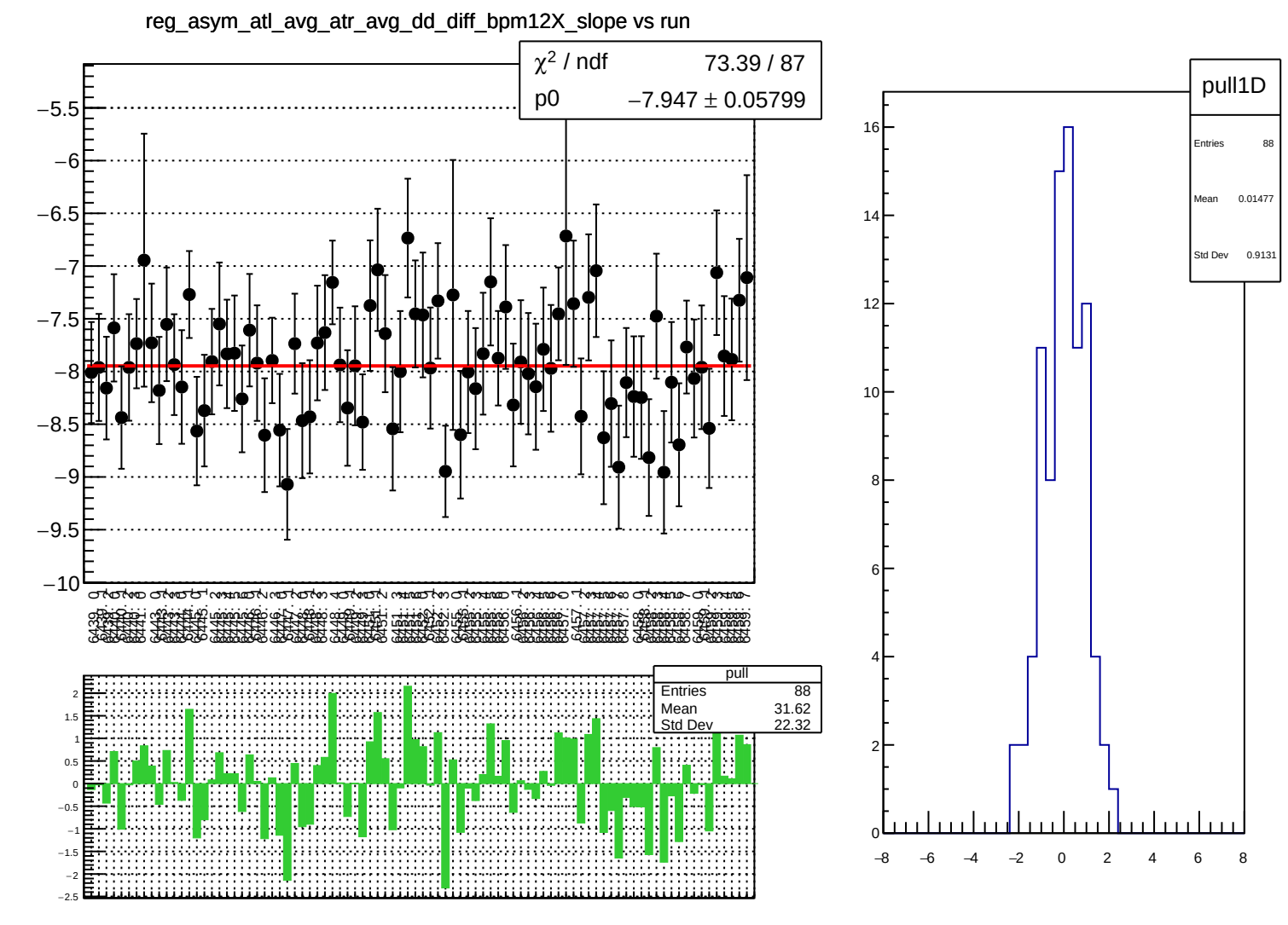

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 116.7 / 87
p0 −168 ± 0.2066
−160
−165
−170
−175
−180
pull
Entries 88
Mean 2855
Std Dev 2822
2
1
0
−1
−2
−3
−4
pull1D
Entries 88
Mean −0.003978
Std Dev 1.152
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

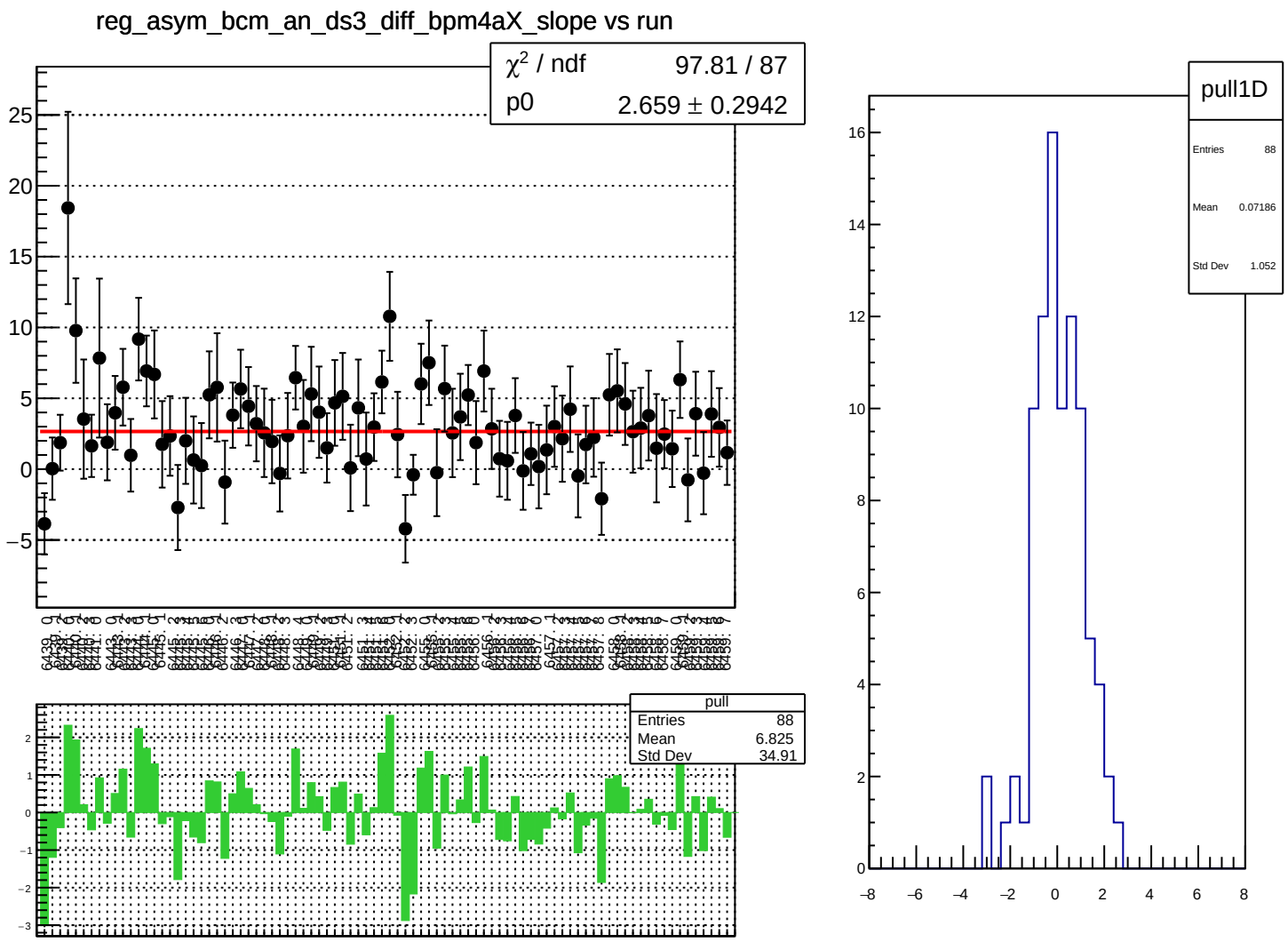

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 75.47 / 87
p0 −10.32 ± 1.993
pull
Entries 88
Mean 170.3
Std Dev 143.5
pull1D
Entries 88
Mean −0.005084
Std Dev 0.926

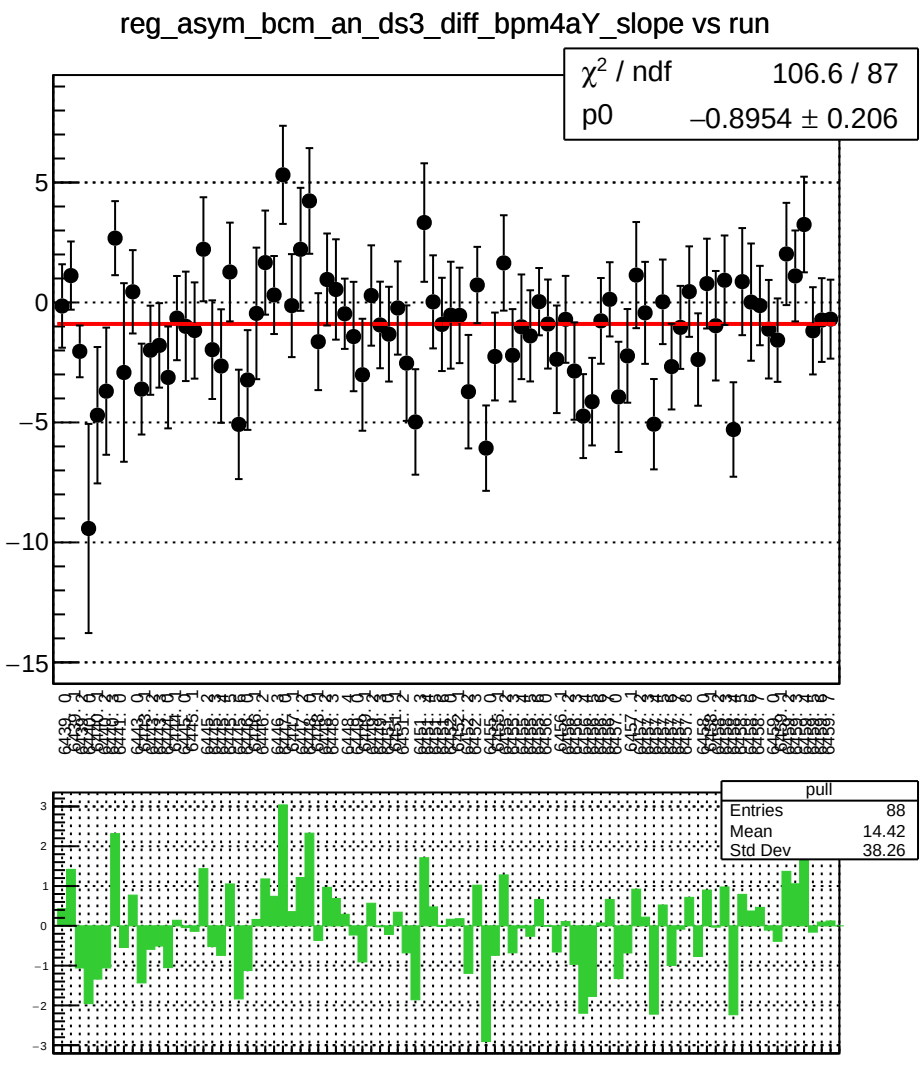

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 100.8 / 87
p0 −6.527 ± 1.406
pull
Entries 88
Mean 1.202
Std Dev 45.88
pull1D
Entries 88
Mean 0.01843
Std Dev 1.07

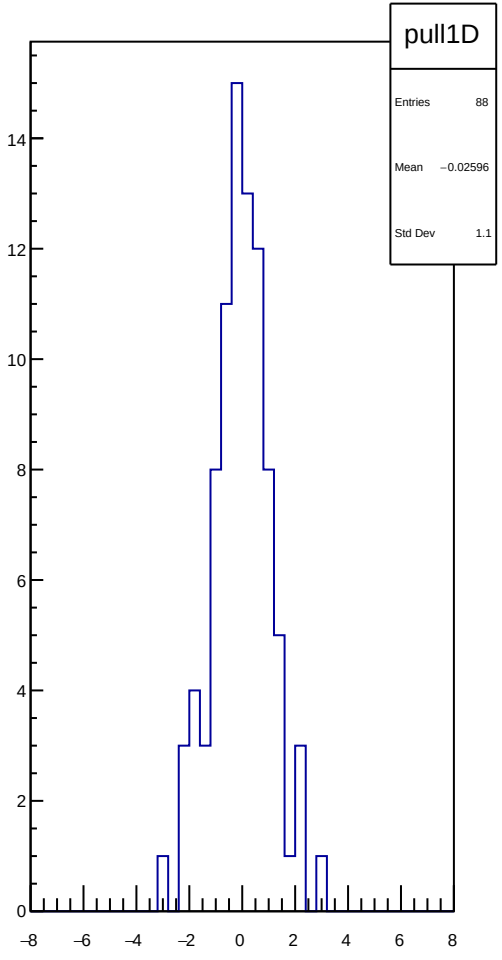

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.56 / 87
p0 −4.831 ± 2.165
pull
Entries 88
Mean 115.7
Std Dev 88.37
pull1D
Entries 88
Mean 0.006558
Std Dev 0.9266

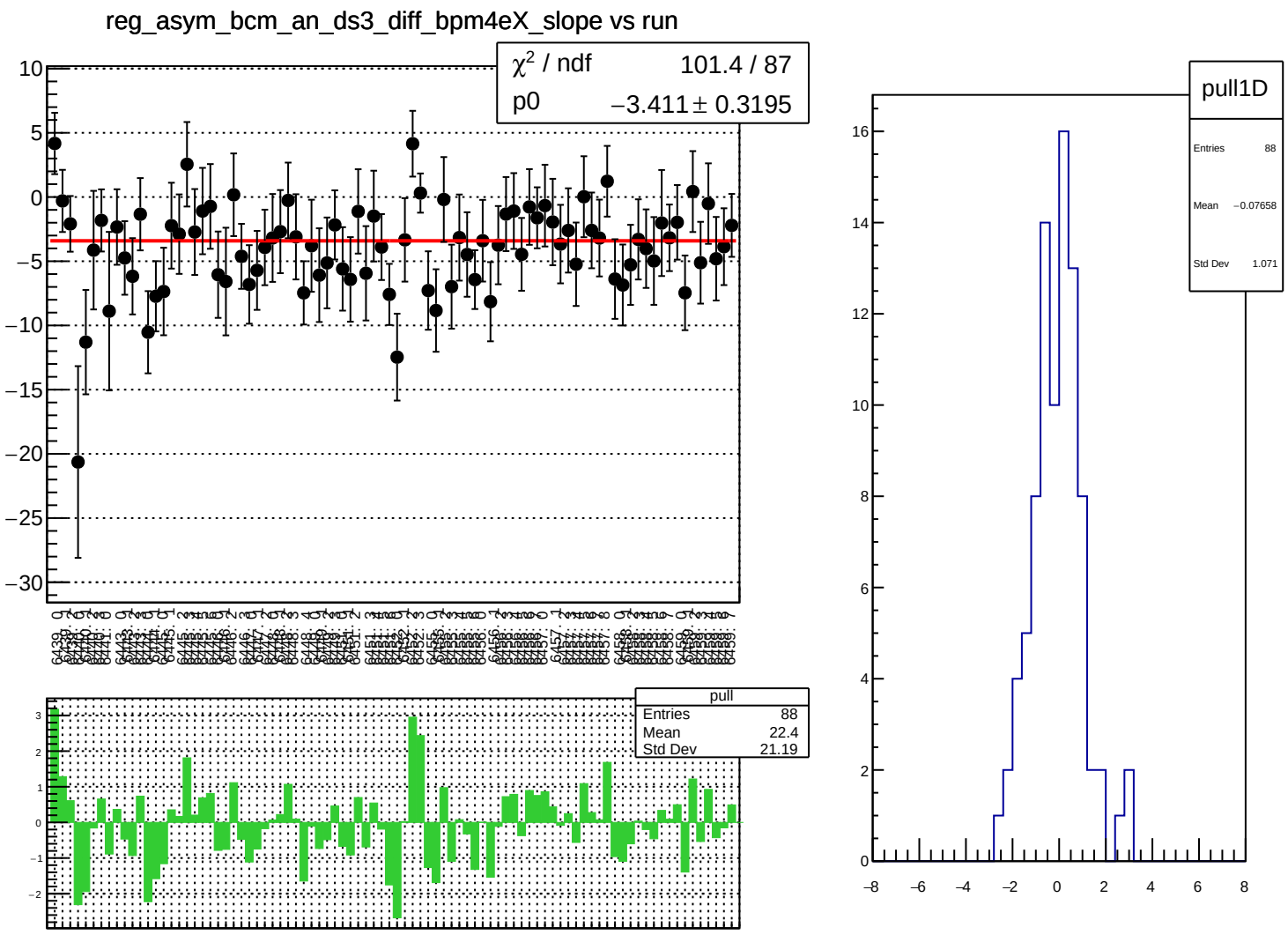

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 104.7 / 87
p0 16.23 ± 1.41
pull
Entries 88
Mean −343.7
Std Dev 380
pull1D
Entries 88
Mean −0.01173
Std Dev 1.09

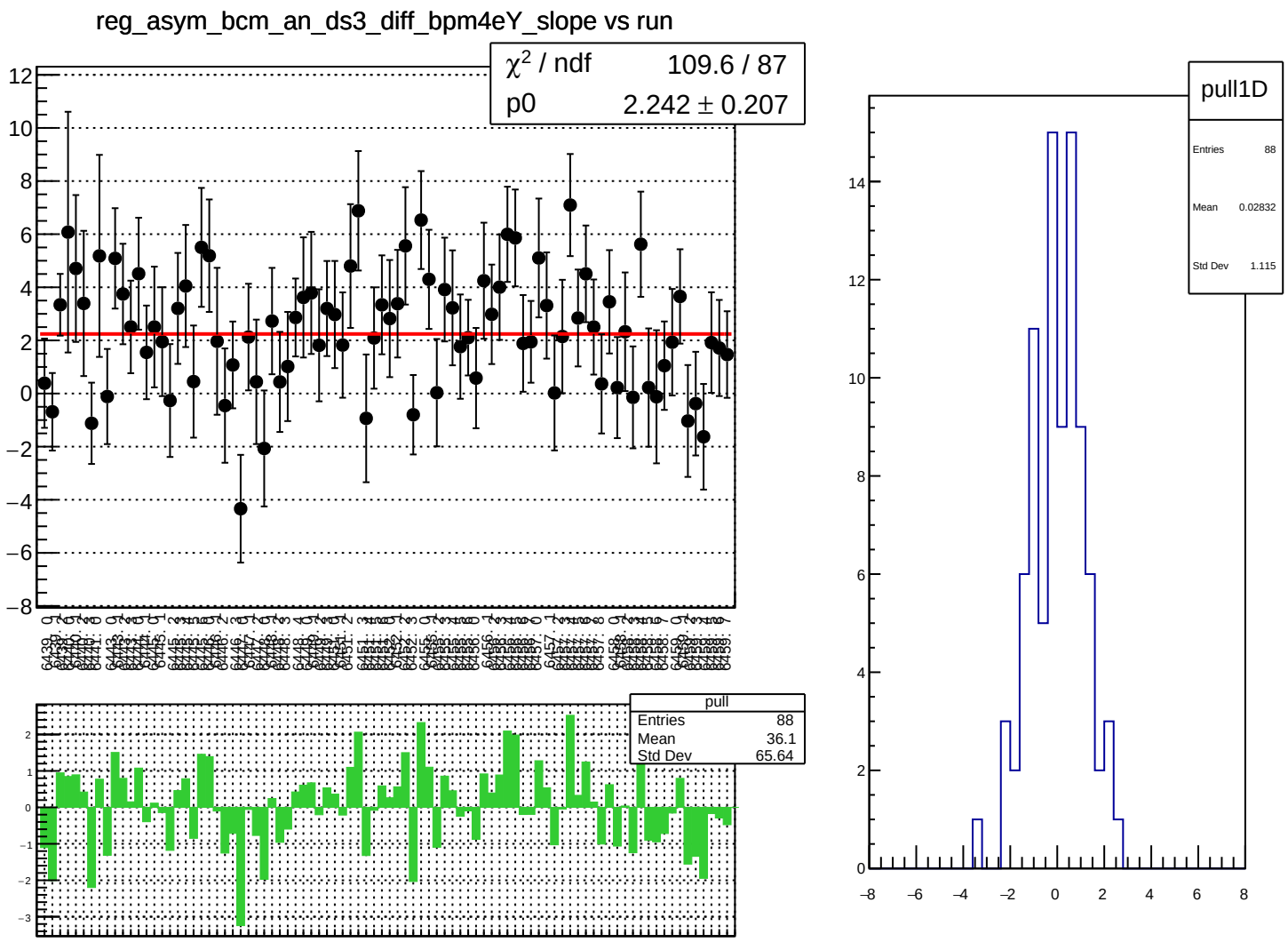

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 73.39 / 87
p0 −7.947 ± 0.05799
pull
Entries 88
Mean 31.62
Std Dev 22.32
pull1D
Entries 88
Mean 0.01477
Std Dev 0.9131

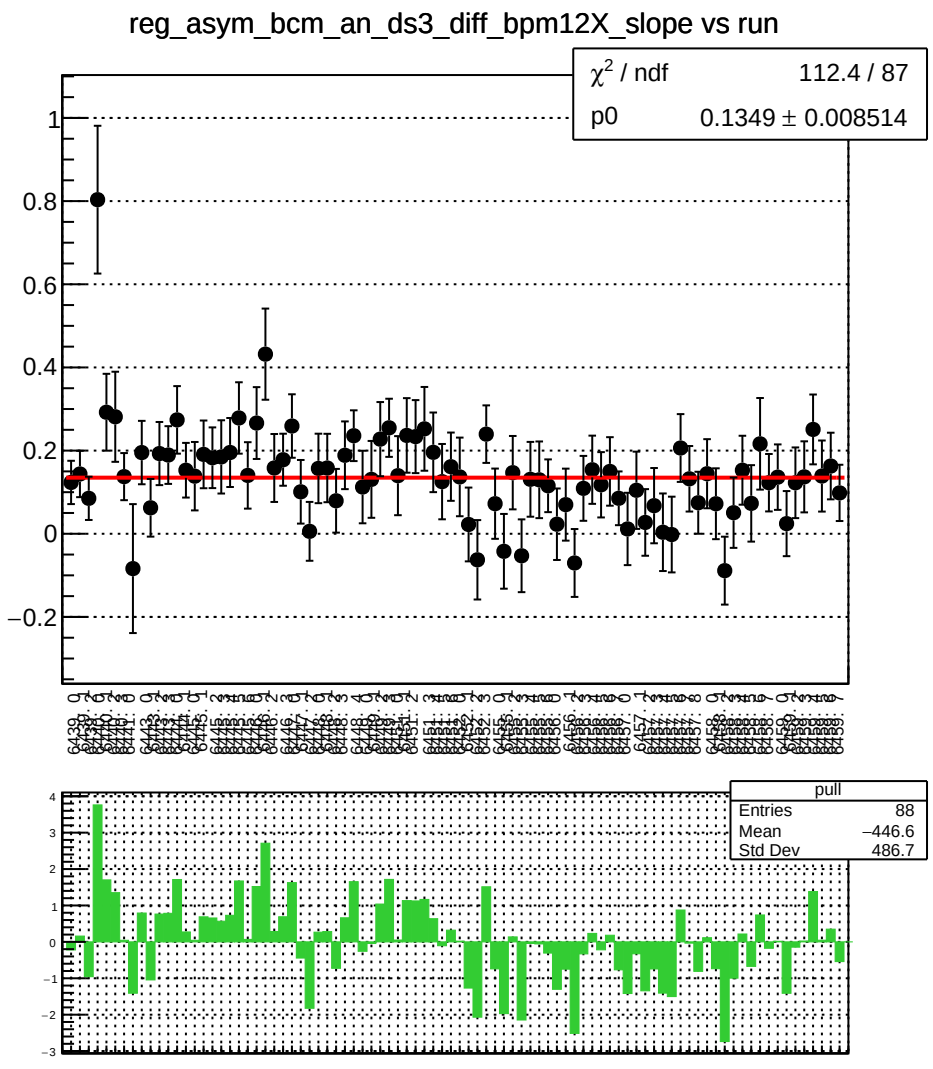

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 97.81 / 87
p0 2.659 ± 0.2942
pull
Entries 88
Mean 6.825
Std Dev 34.91
pull1D
Entries 88
Mean 0.07186
Std Dev 1.052

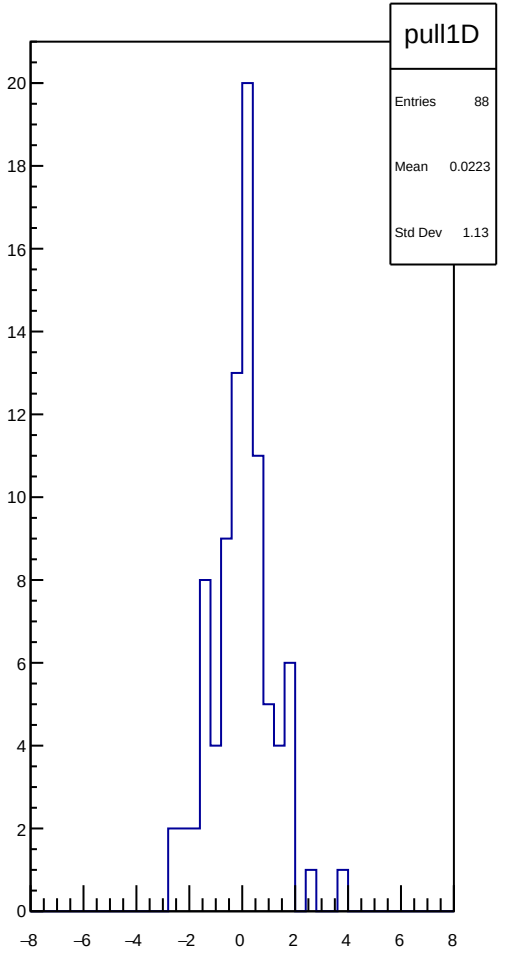

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 106.6 / 87
p0 −0.8954 ± 0.206
pull
Entries 88
Mean 14.42
Std Dev 38.26

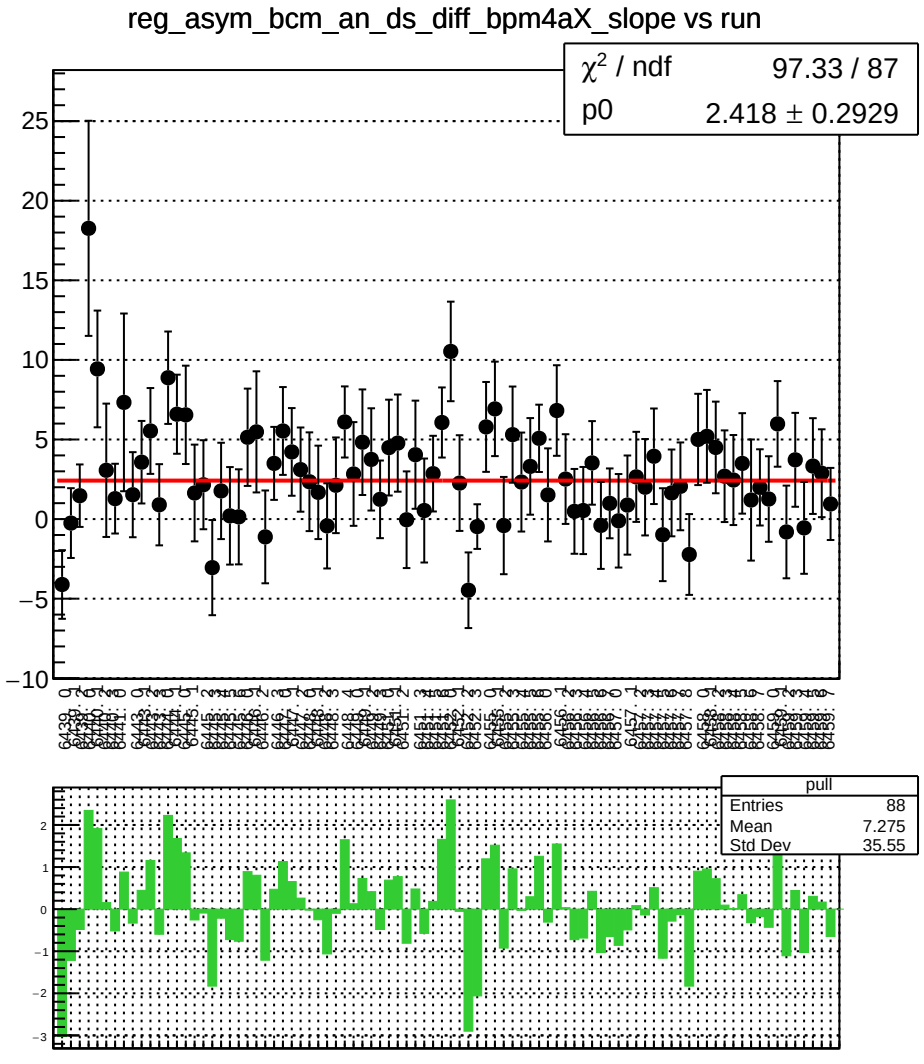

pull1D
Entries 88
Mean −0.02596
Std Dev 1.1

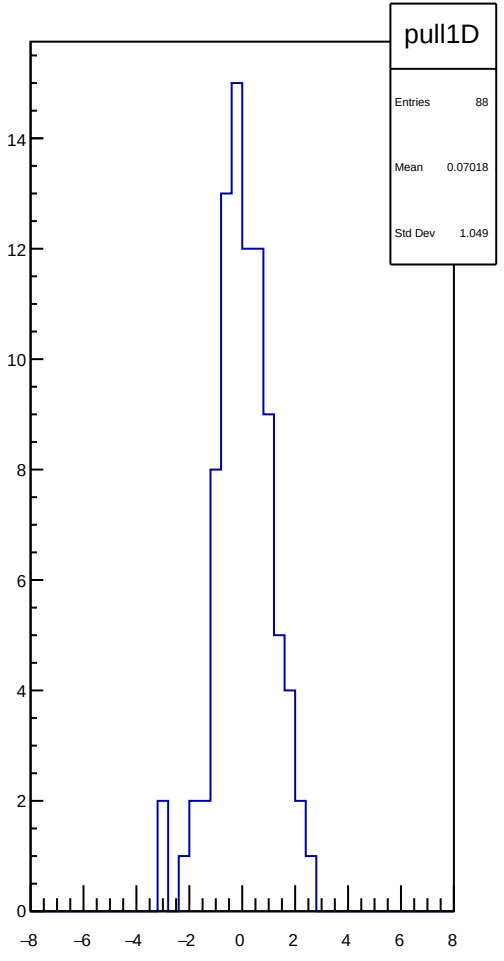

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 101.4 / 87
p0 −3.411 ± 0.3195
pull
Entries 88
Mean 22.4
Std Dev 21.19
pull1D
Entries 88
Mean −0.07658
Std Dev 1.071

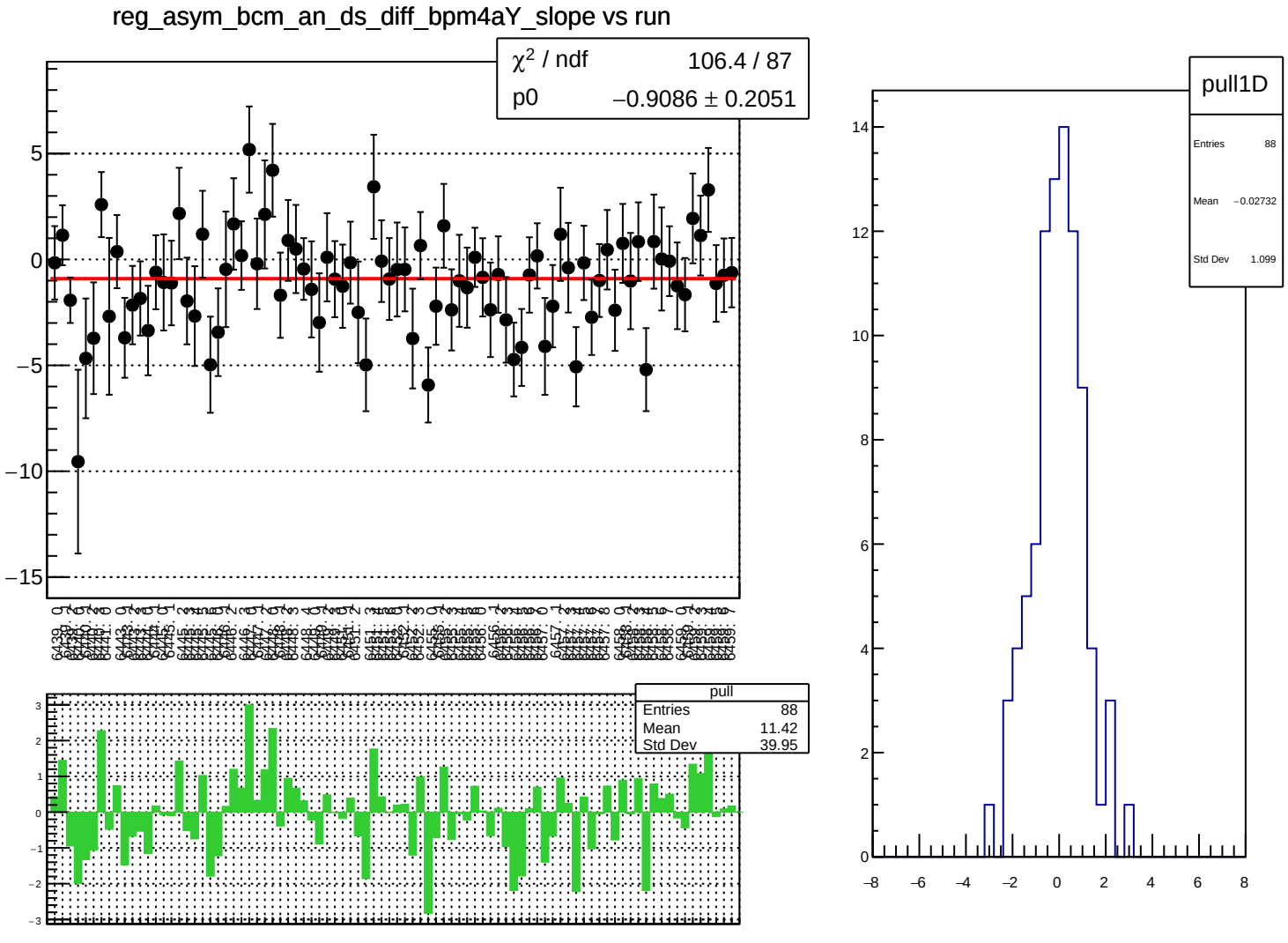

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 109.6 / 87
p0 2.242 ± 0.207
pull
Entries 88
Mean 36.1
Std Dev 65.64
pull1D
Entries 88
Mean 0.02832
Std Dev 1.115

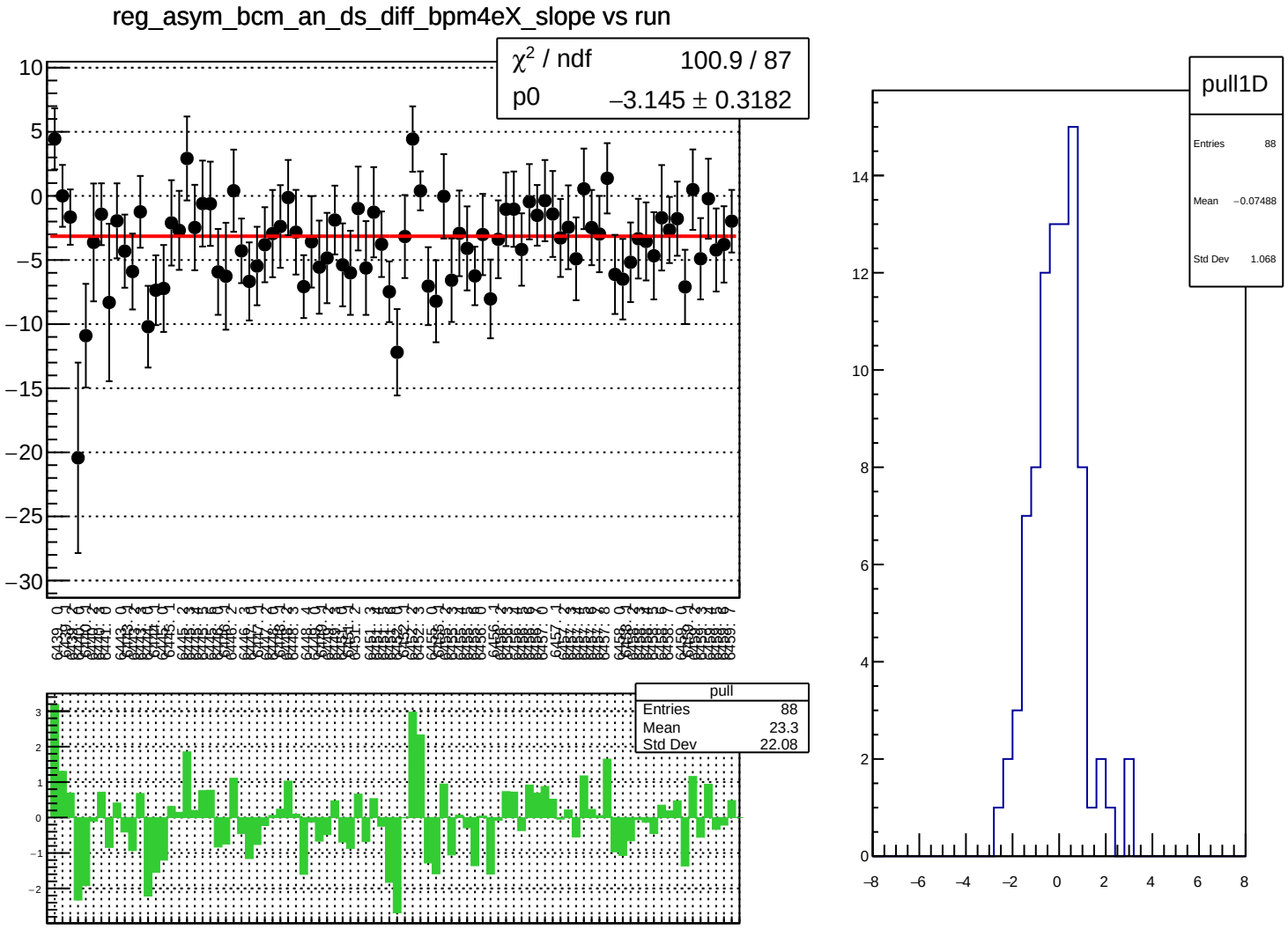

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 112.4 / 87
p0 0.1349 ± 0.008514
pull
Entries 88
Mean −446.6
Std Dev 486.7

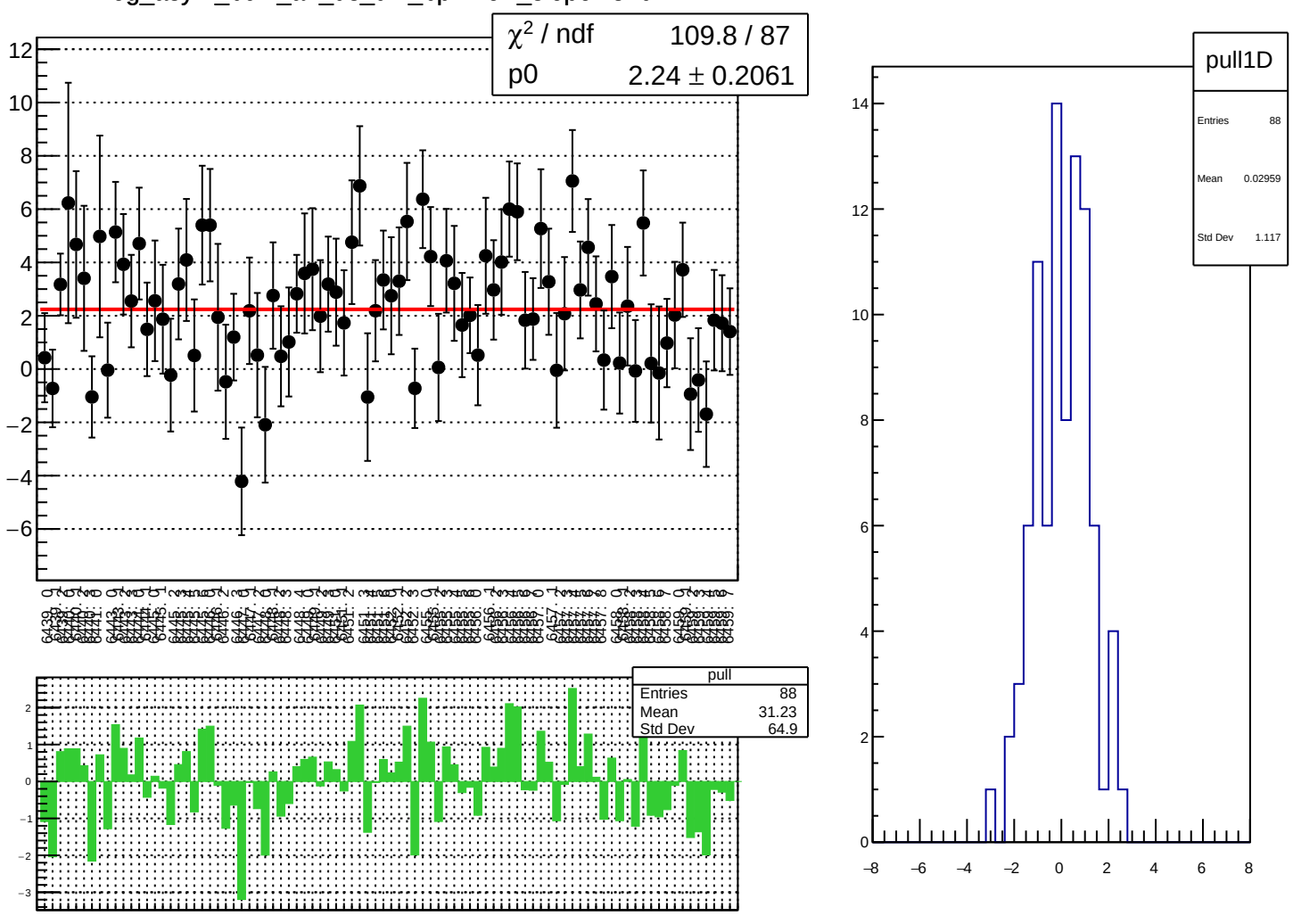

pull1D
Entries 88
Mean 0.0223
Std Dev 1.13

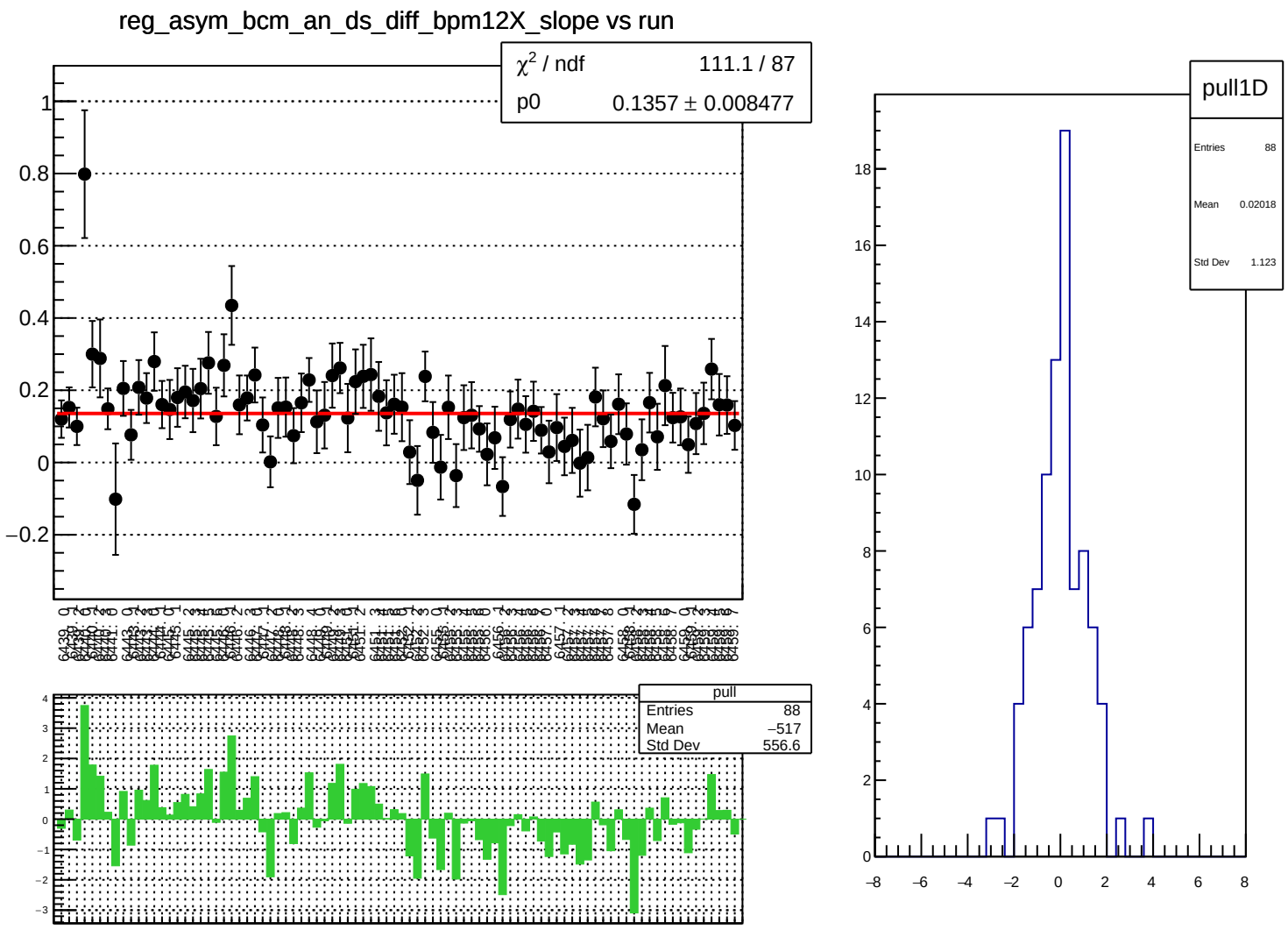

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 97.33 / 87
p0 2.418 ± 0.2929
pull
Entries 88
Mean 7.275
Std Dev 35.55

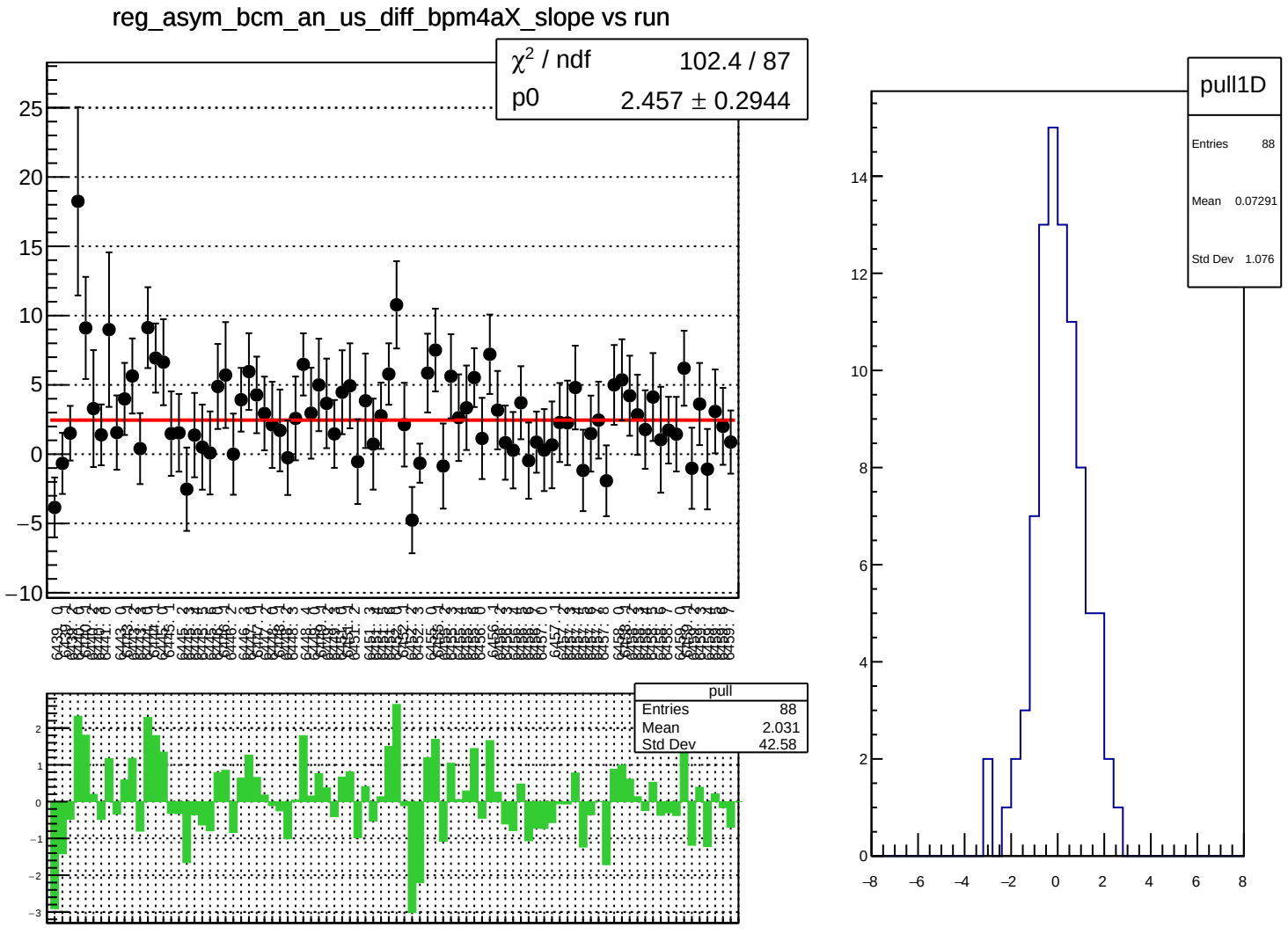

pull1D
Entries 88
Mean 0.07018
Std Dev 1.049

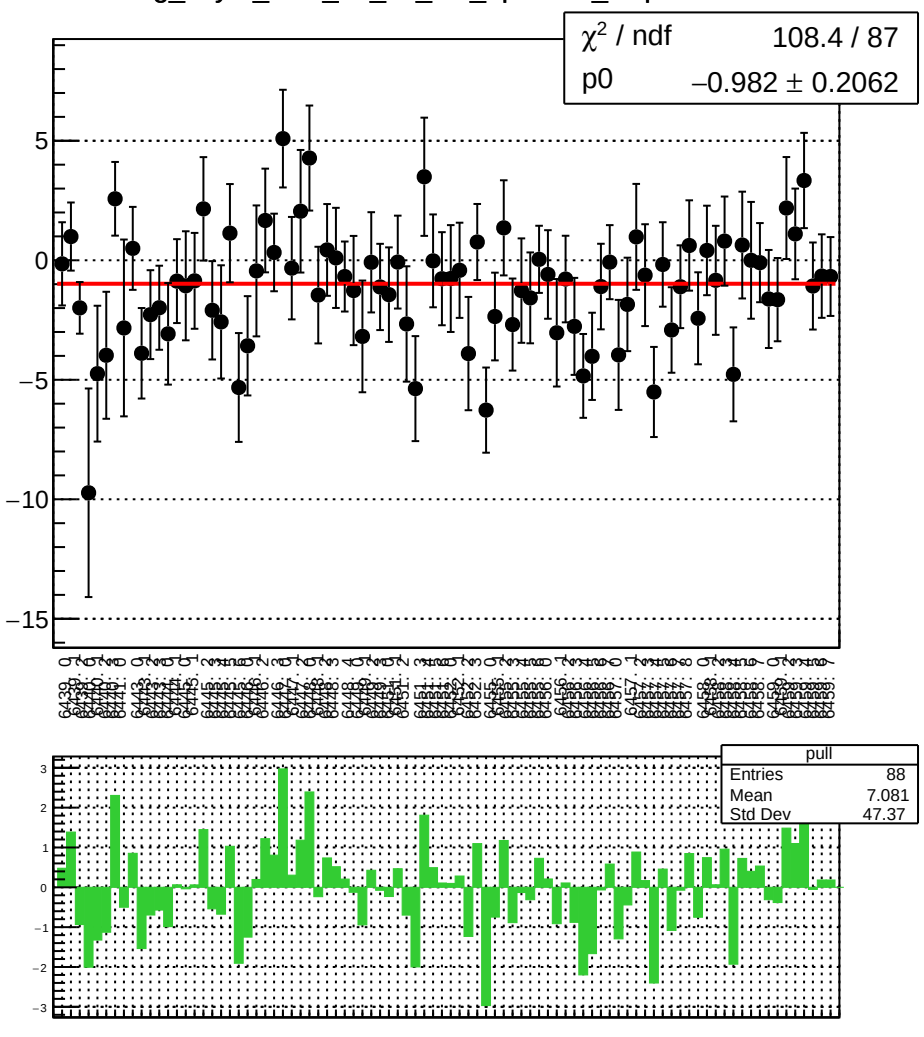

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 106.4 / 87
p0 −0.9086 ± 0.2051
pull
Entries 88
Mean 11.42
Std Dev 39.95
pull1D
Entries 88
Mean −0.02732
Std Dev 1.099

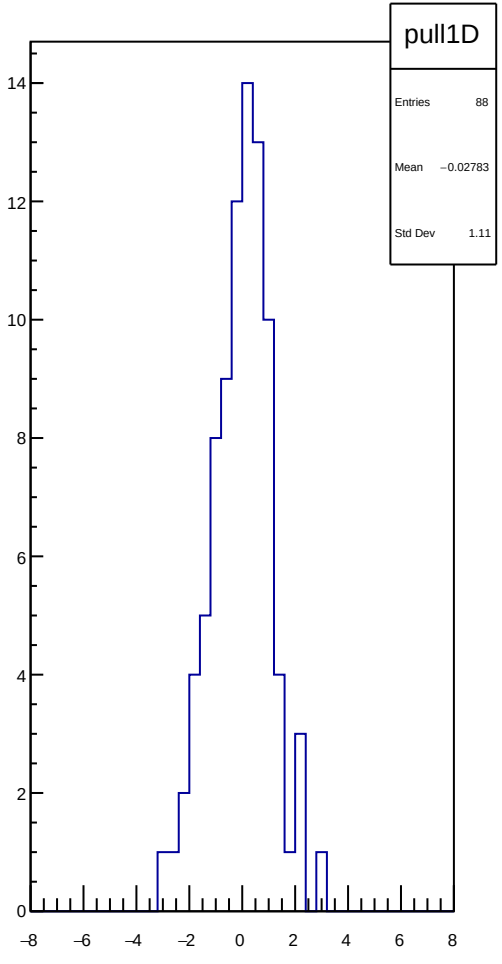

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 100.9 / 87
p0 −3.145 ± 0.3182
pull
Entries 88
Mean 23.3
Std Dev 22.08
pull1D
Entries 88
Mean −0.07488
Std Dev 1.068

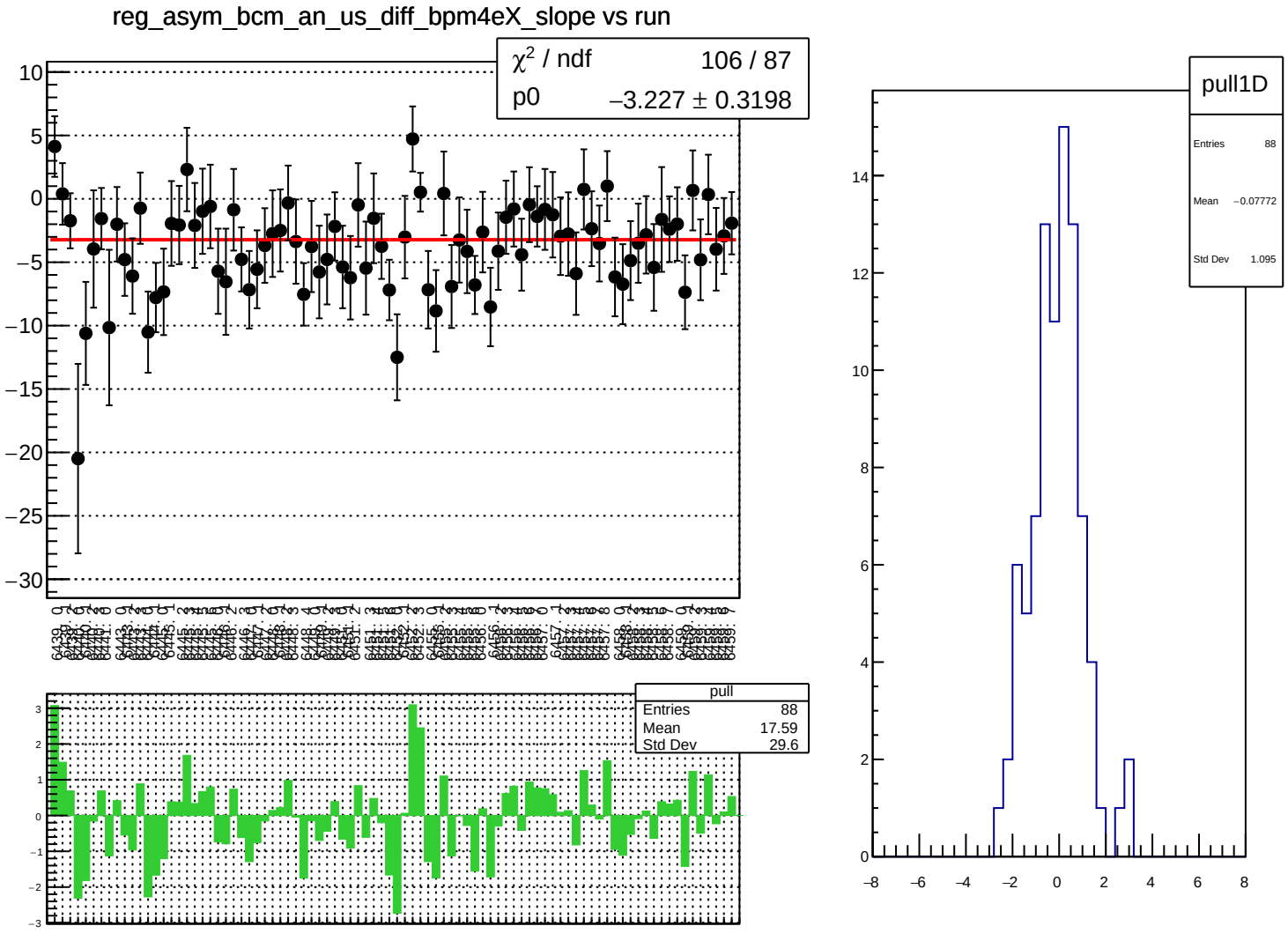

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 109.8 / 87
p0 2.24 ± 0.2061
pull
Entries 88
Mean 31.23
Std Dev 64.9
pull1D
Entries 88
Mean 0.02959
Std Dev 1.117

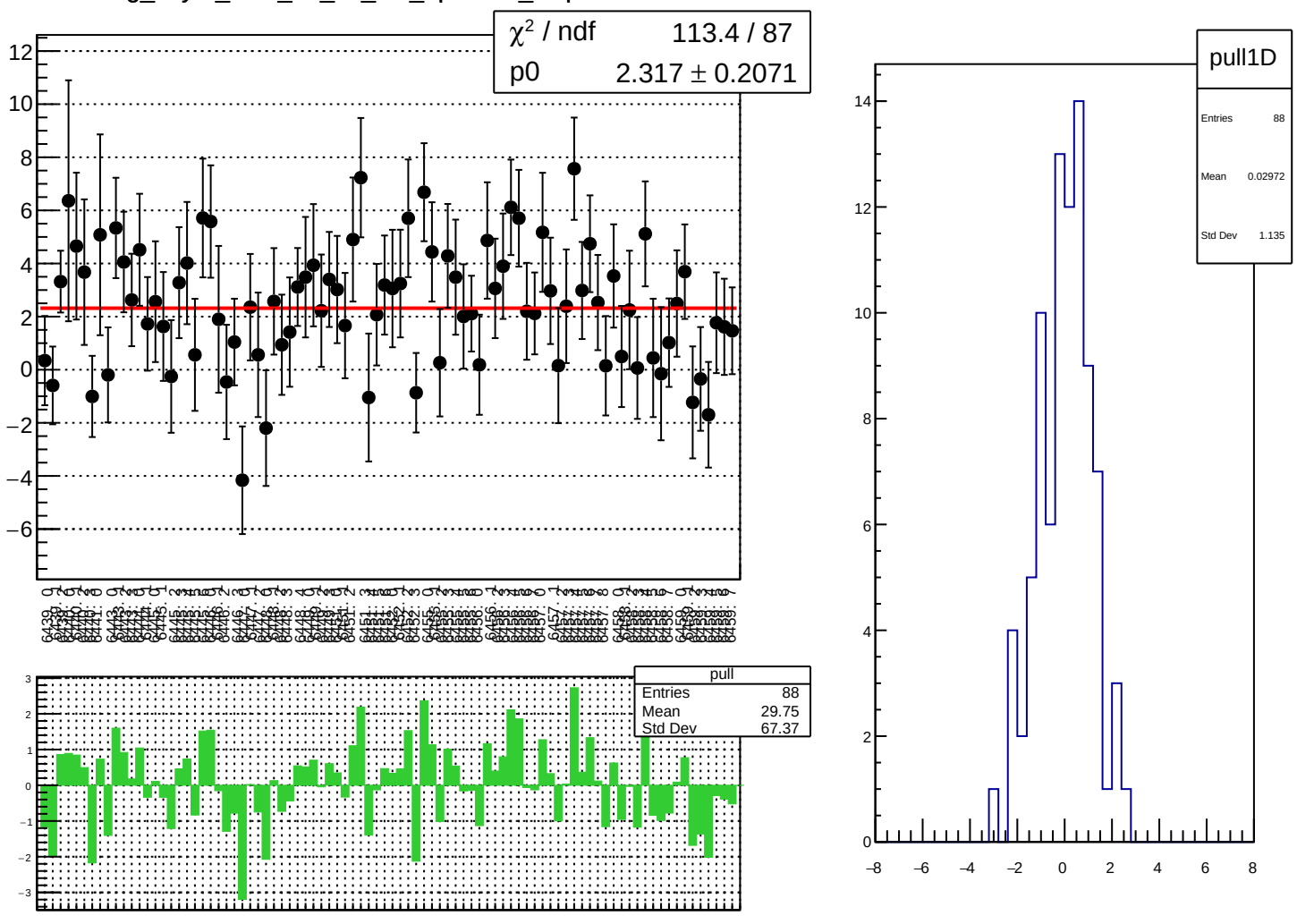

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 111.1 / 87
p0 0.1357 ± 0.008477
pull
Entries 88
Mean −517
Std Dev 556.6
pull1D
Entries 88
Mean 0.02018
Std Dev 1.123

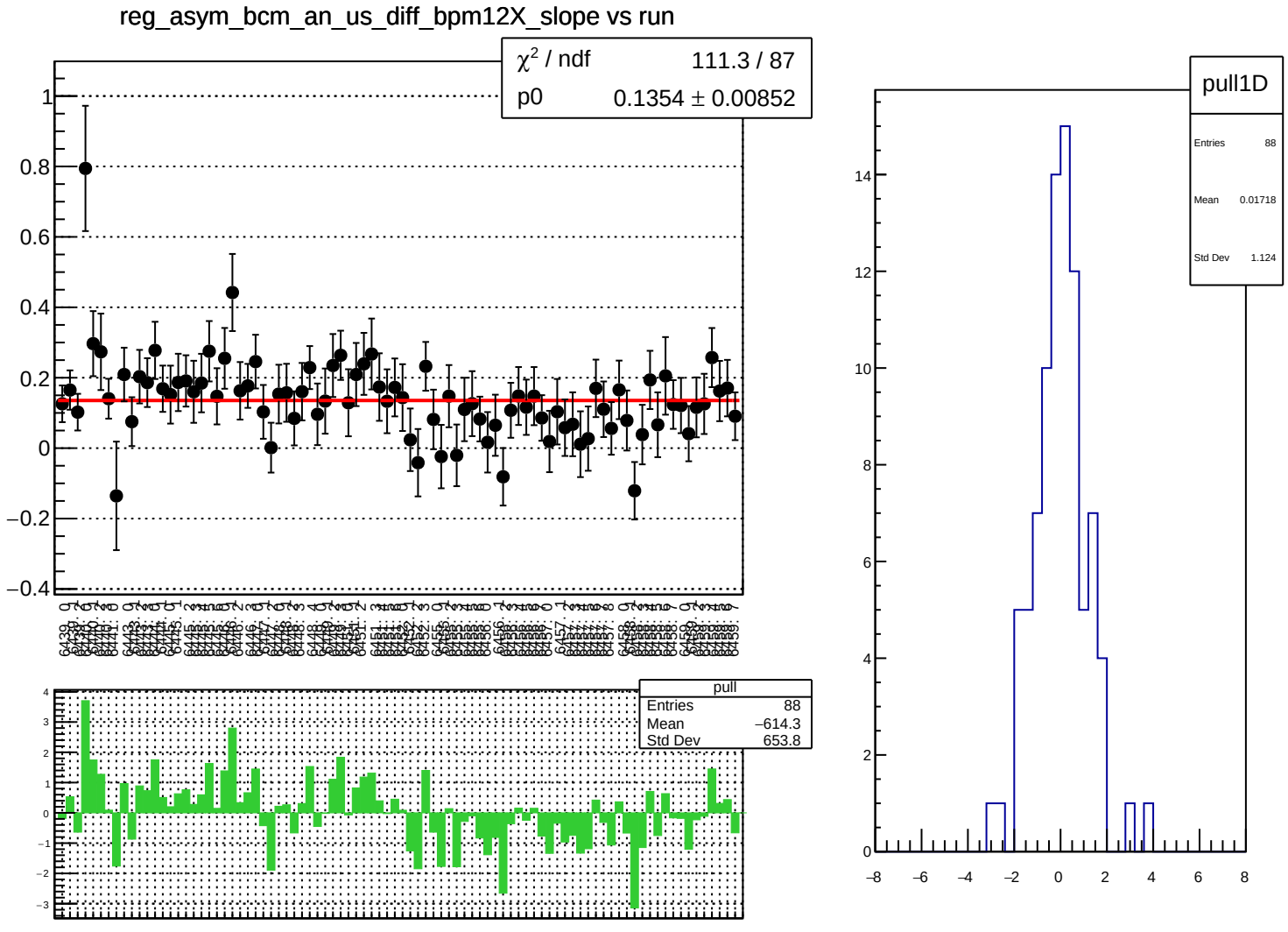

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 102.4 / 87
p0 2.457 ± 0.2944
pull
Entries 88
Mean 2.031
Std Dev 42.58
pull1D
Entries 88
Mean 0.07291
Std Dev 1.076

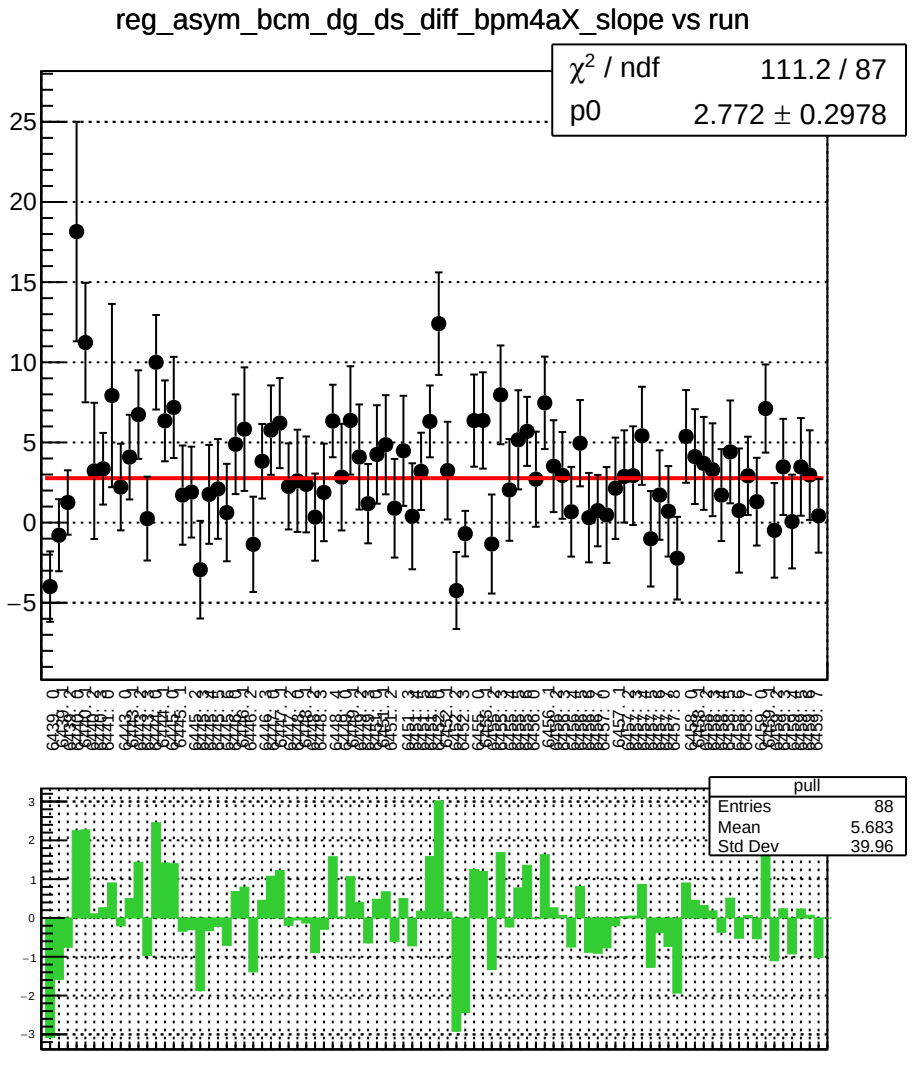

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 108.4 / 87
p0 −0.982 ± 0.2062
pull
Entries 88
Mean 7.081
Std Dev 47.37

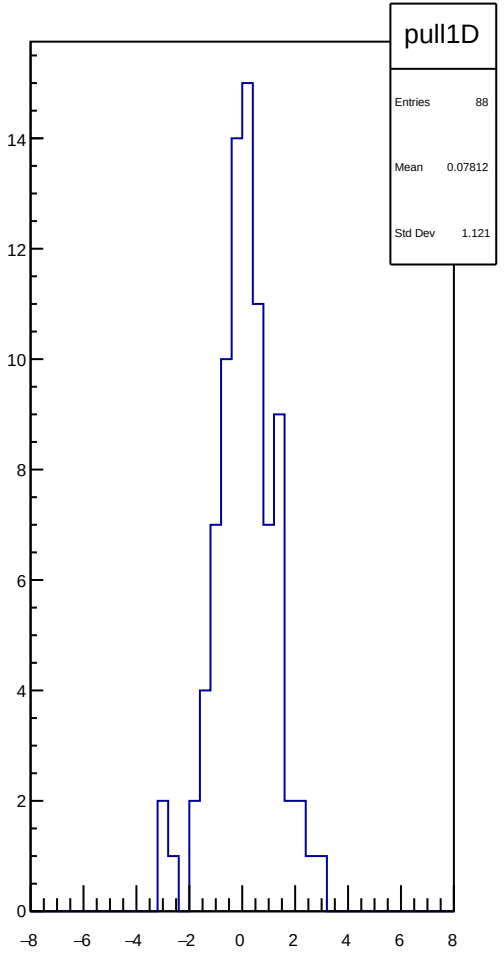

pull1D
Entries 88
Mean −0.02783
Std Dev 1.11

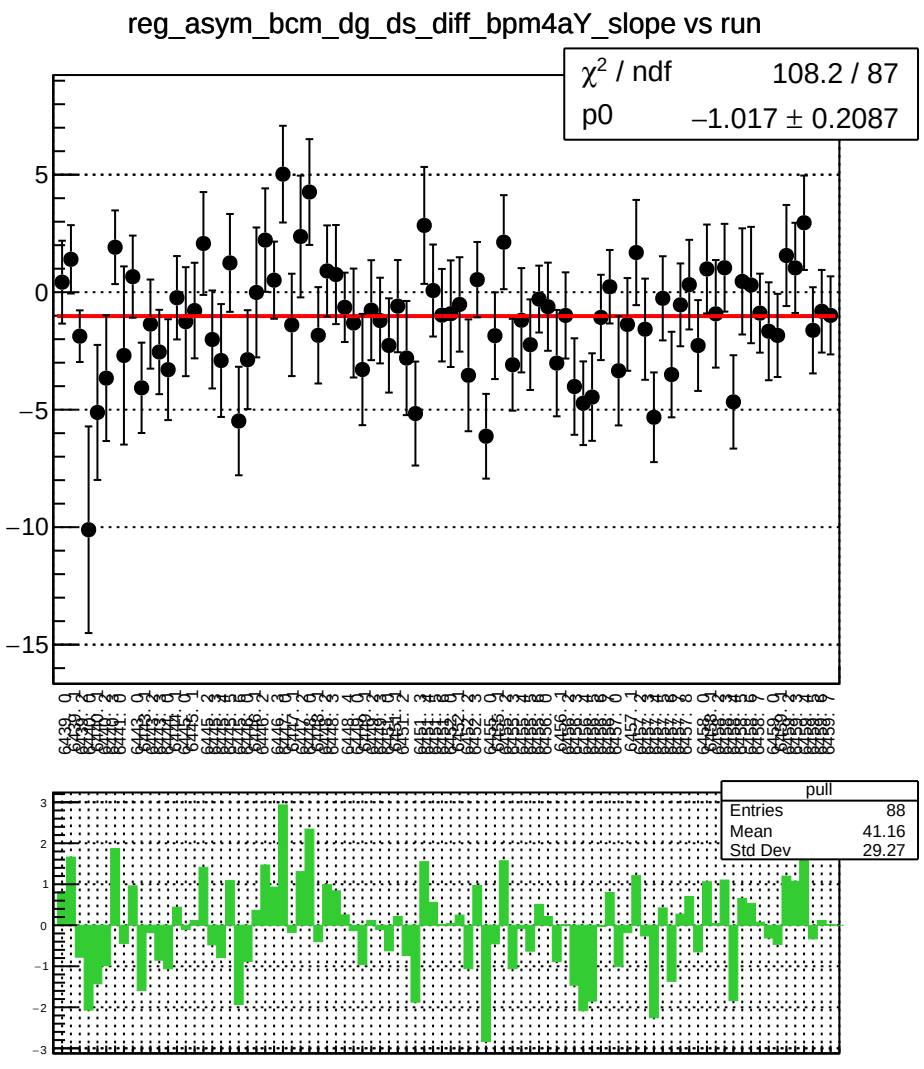

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 106 / 87
p0 −3.227 ± 0.3198
pull
Entries 88
Mean 17.59
Std Dev 29.6
pull1D
Entries 88
Mean −0.07772
Std Dev 1.095

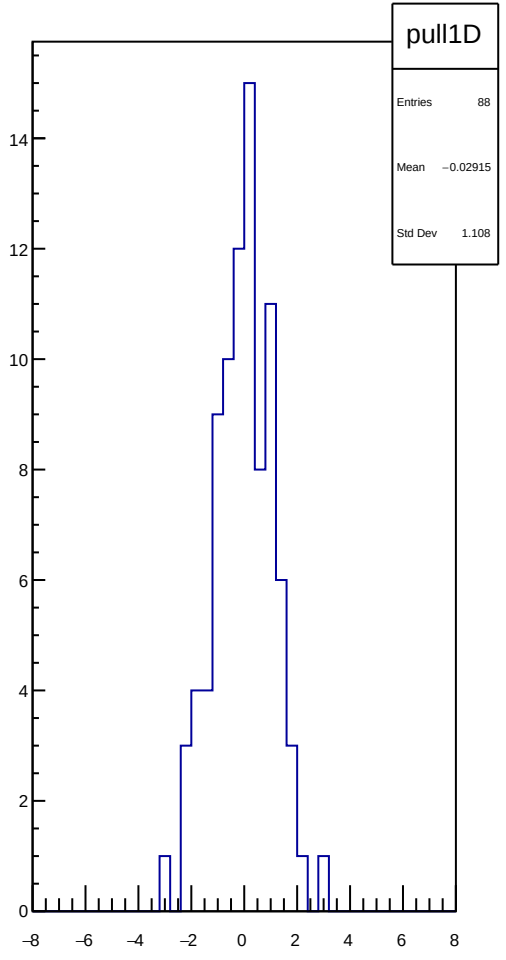

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 113.4 / 87
p0 2.317 ± 0.2071
pull
Entries 88
Mean 29.75
Std Dev 67.37
pull1D
Entries 88
Mean 0.02972
Std Dev 1.135

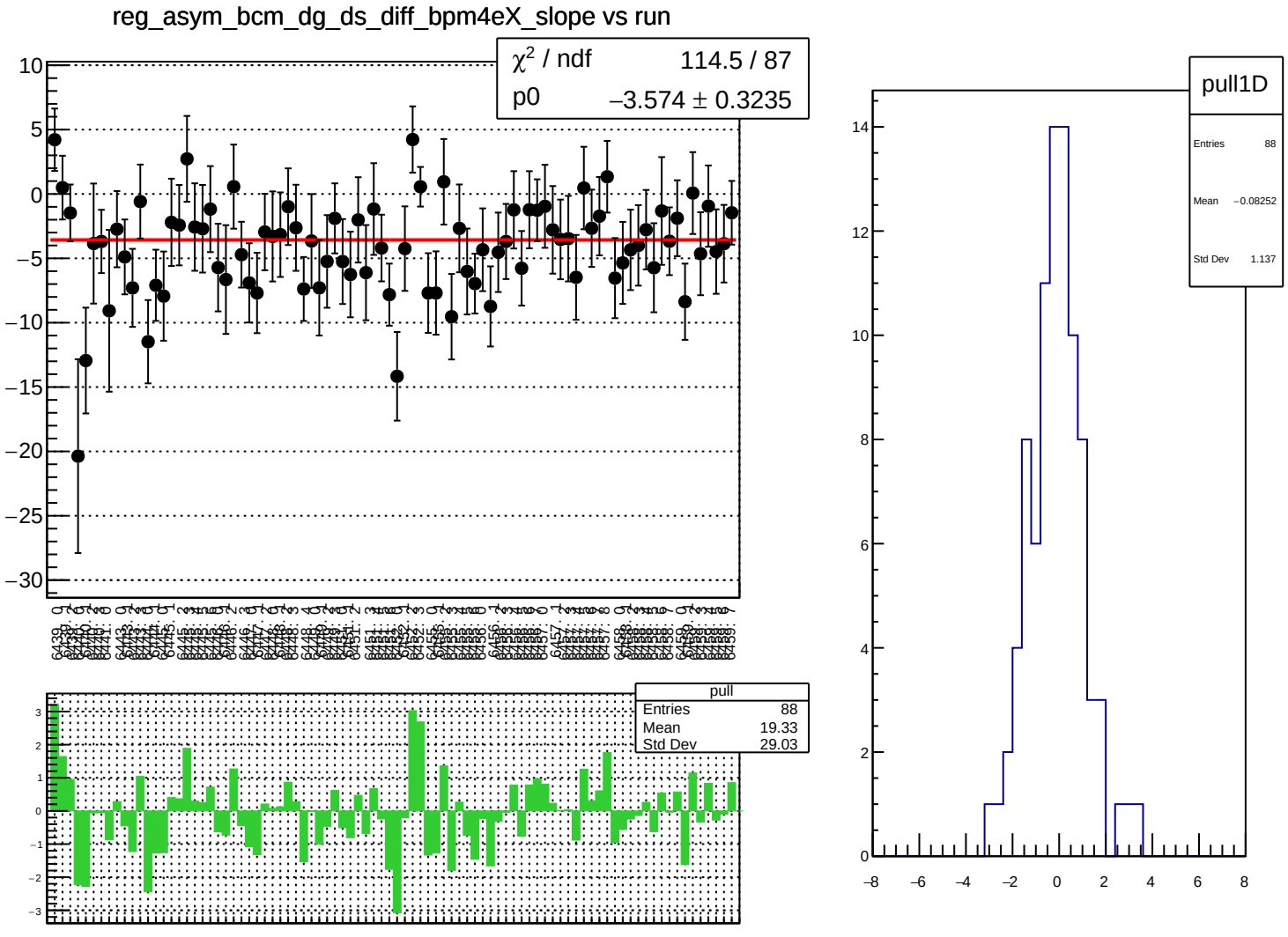

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 111.3 / 87
p0 0.1354 ± 0.00852
pull
Entries 88
Mean −614.3
Std Dev 653.8
pull1D
Entries 88
Mean 0.01718
Std Dev 1.124

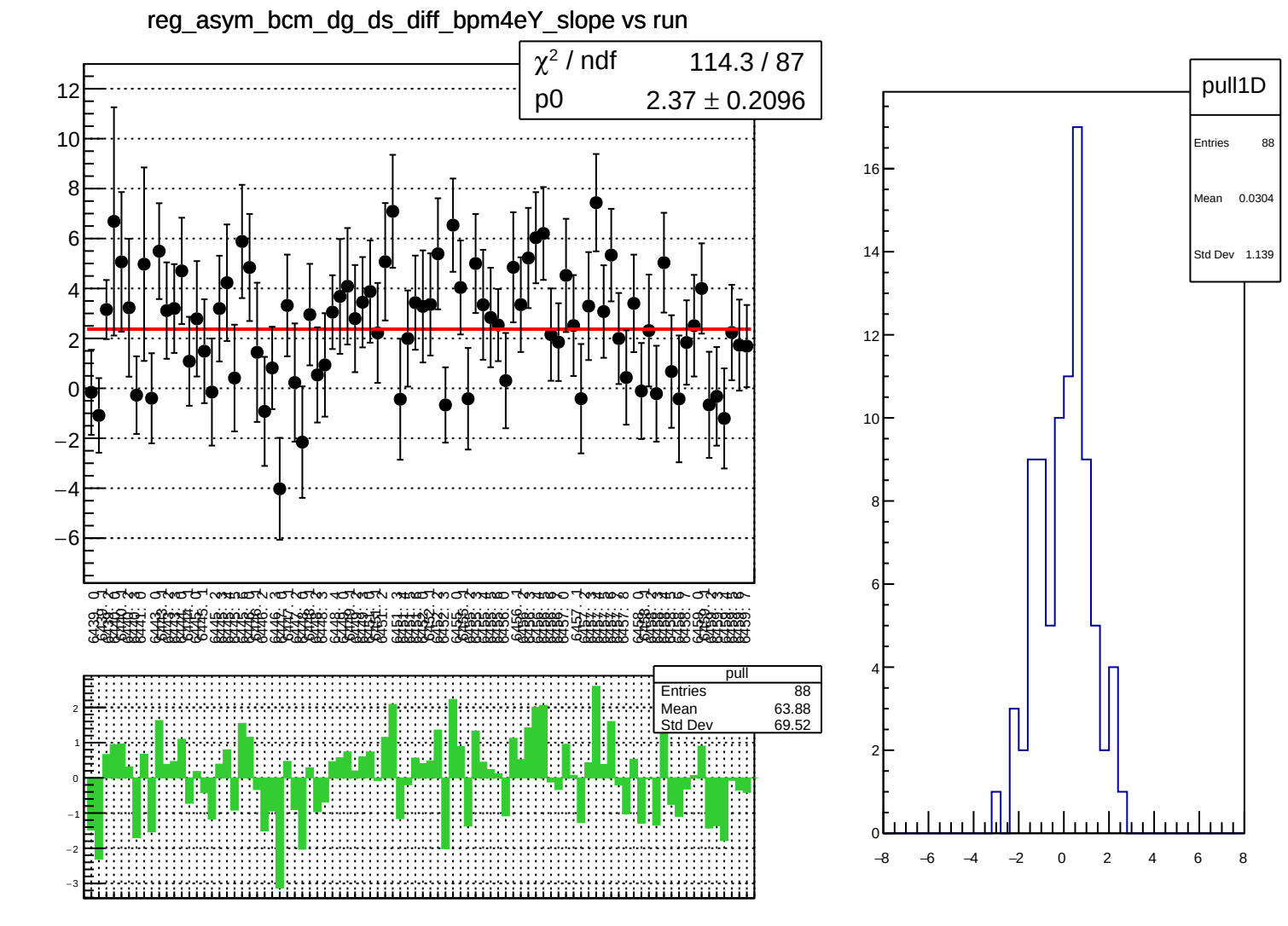

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 111.2 / 87
p0 2.772 ± 0.2978
pull
Entries 88
Mean 5.683
Std Dev 39.96

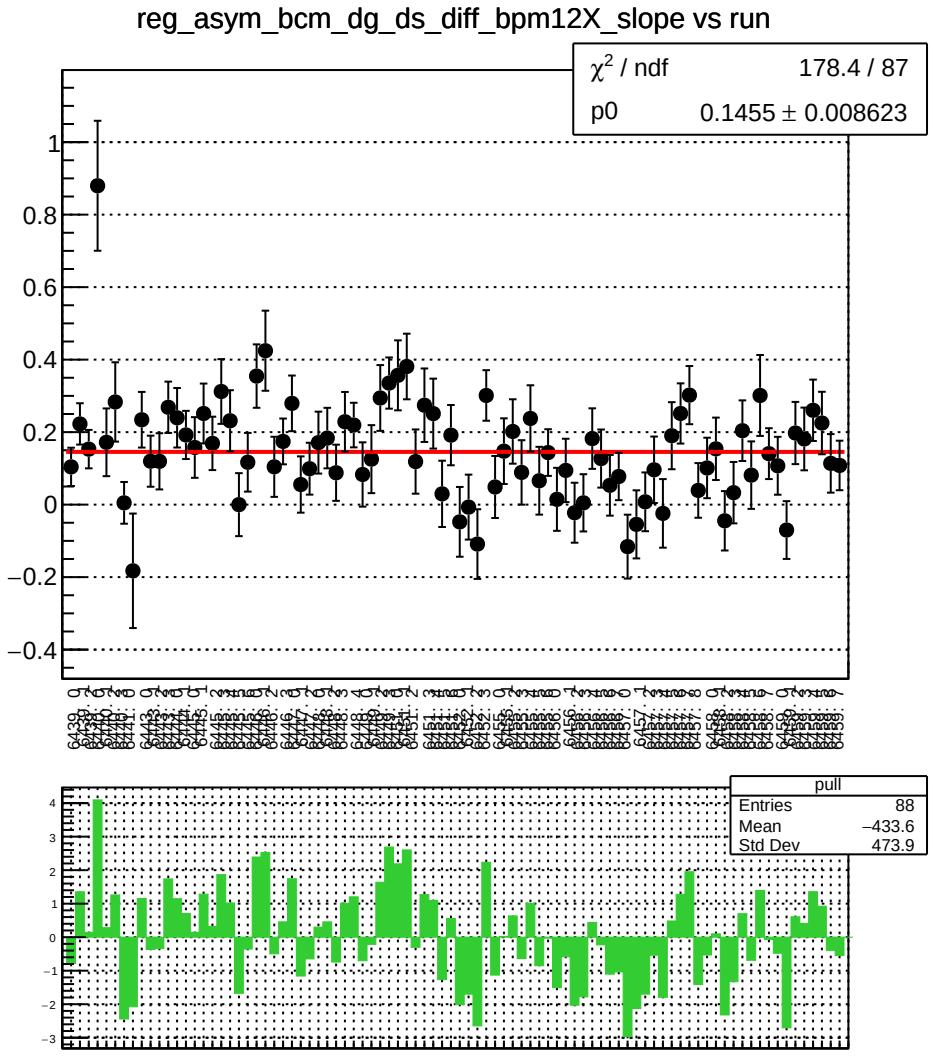

pull1D
Entries 88
Mean 0.07812
Std Dev 1.121

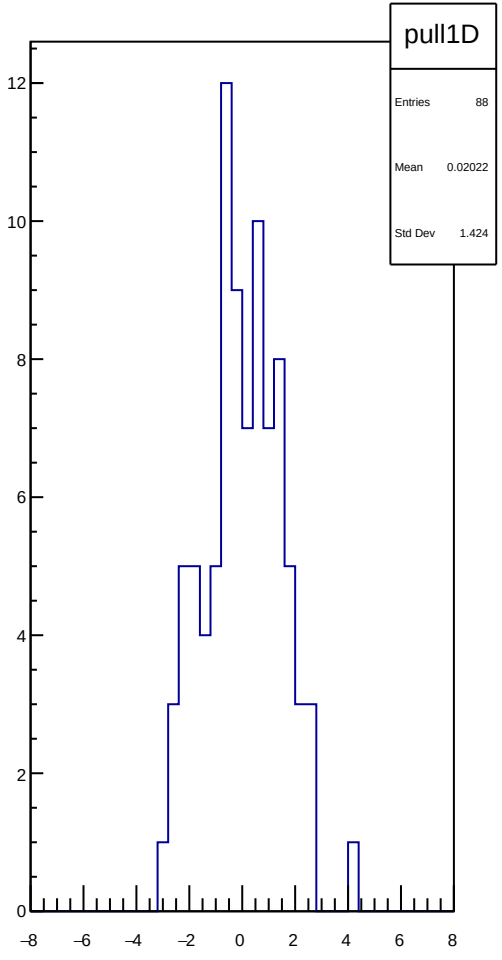

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 108.2 / 87
p0 −1.017 ± 0.2087
pull
Entries 88
Mean 41.16
Std Dev 29.27

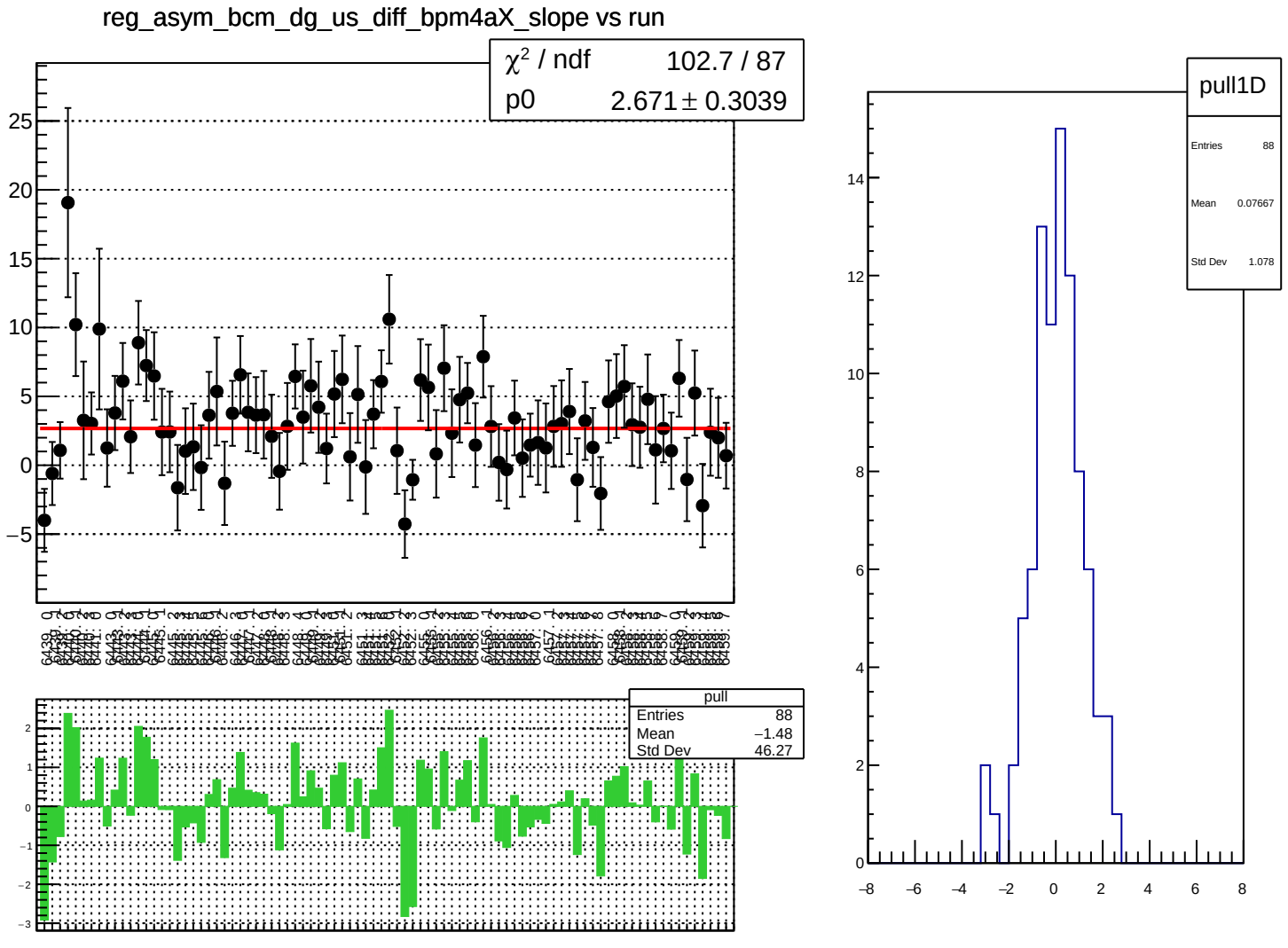

pull1D
Entries 88
Mean −0.02915
Std Dev 1.108

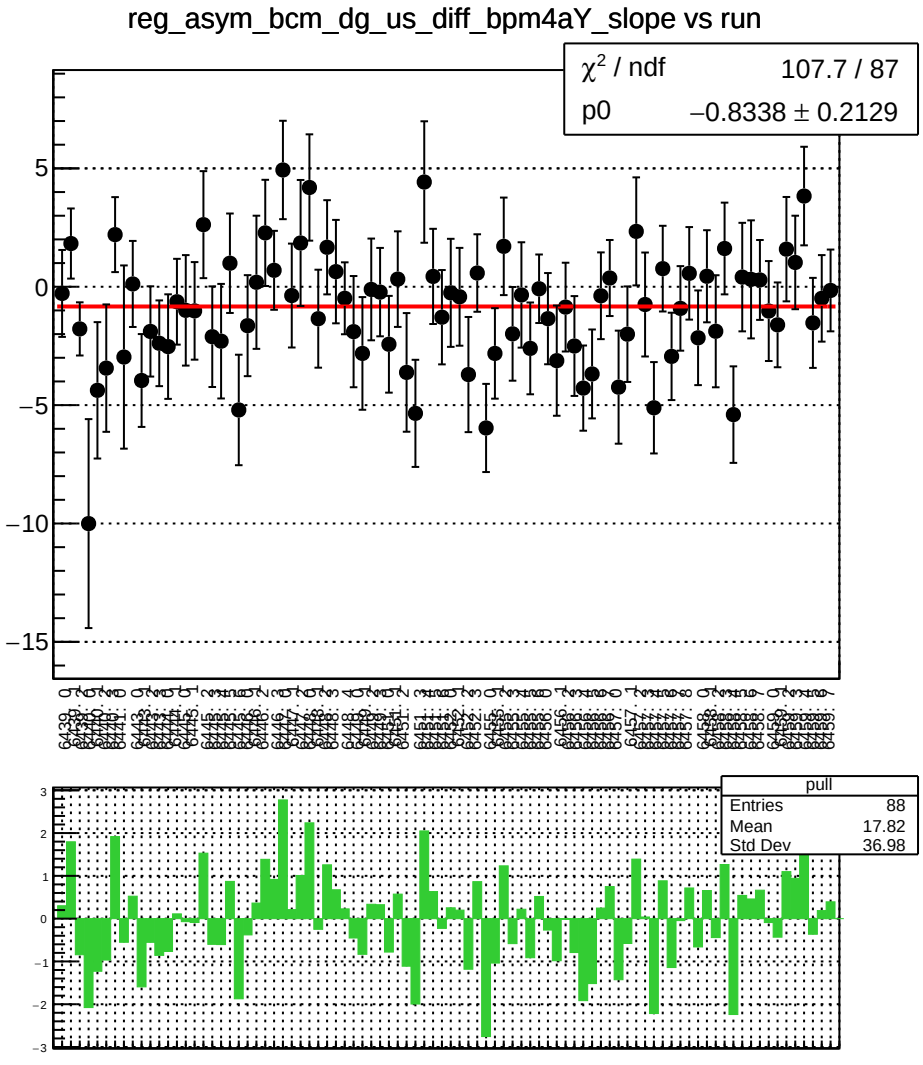

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 114.5 / 87
p0 −3.574 ± 0.3235
pull
Entries 88
Mean 19.33
Std Dev 29.03
pull1D
Entries 88
Mean −0.08252
Std Dev 1.137

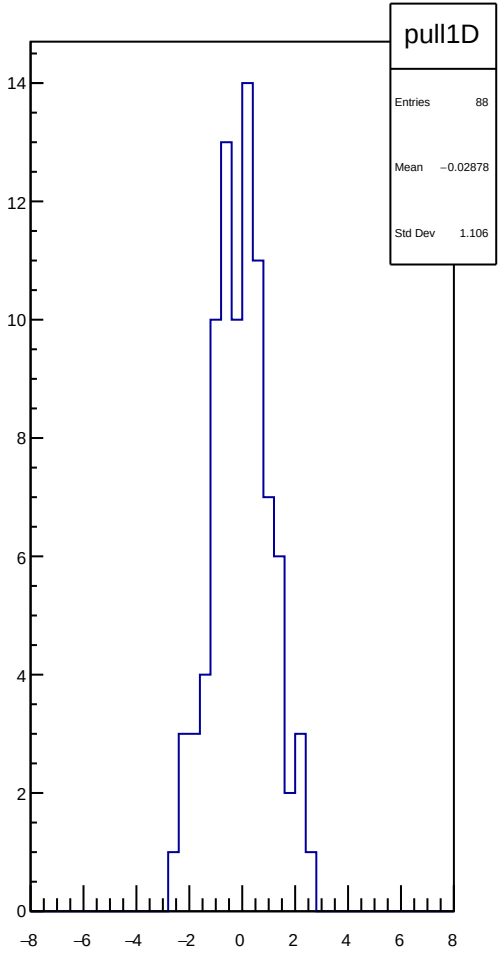

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 114.3 / 87
p0 2.37 ± 0.2096
pull
Entries 88
Mean 63.88
Std Dev 69.52
pull1D
Entries 88
Mean 0.0304
Std Dev 1.139

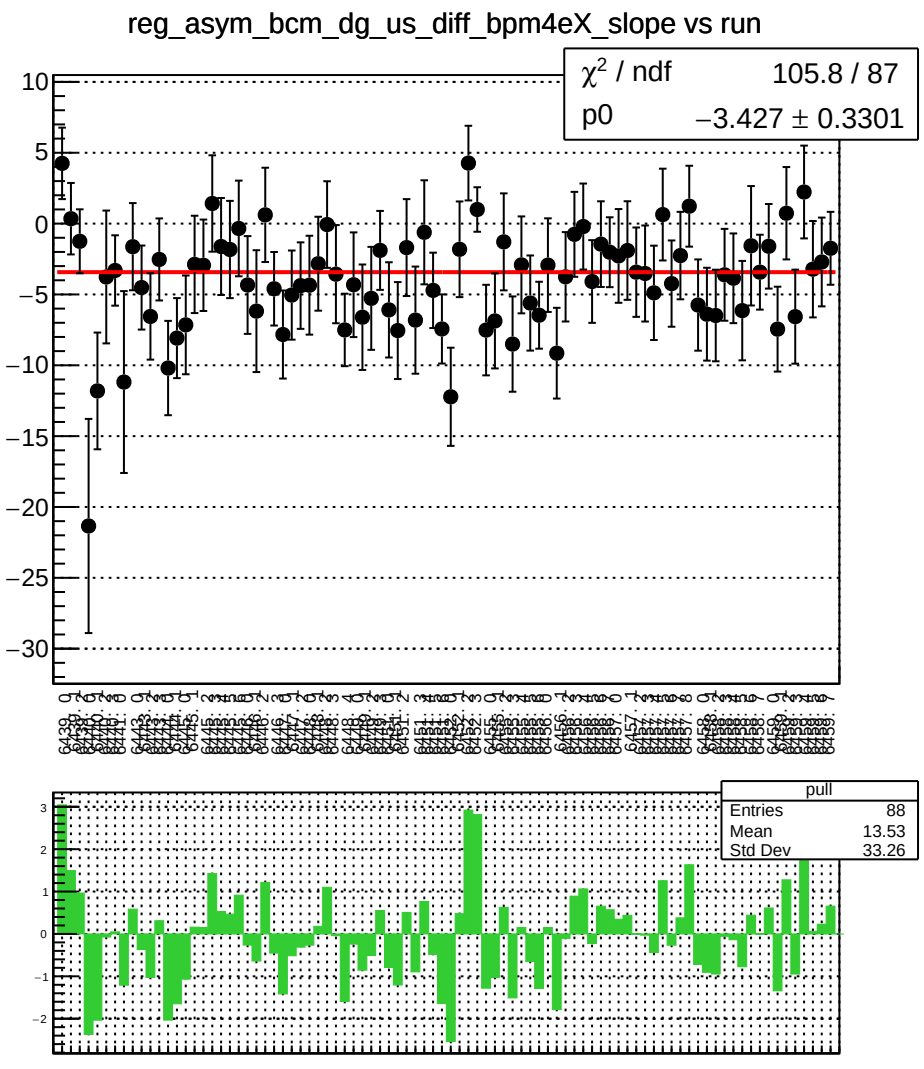

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 178.4 / 87
p0 0.1455 ± 0.008623
pull
Entries 88
Mean −433.6
Std Dev 473.9

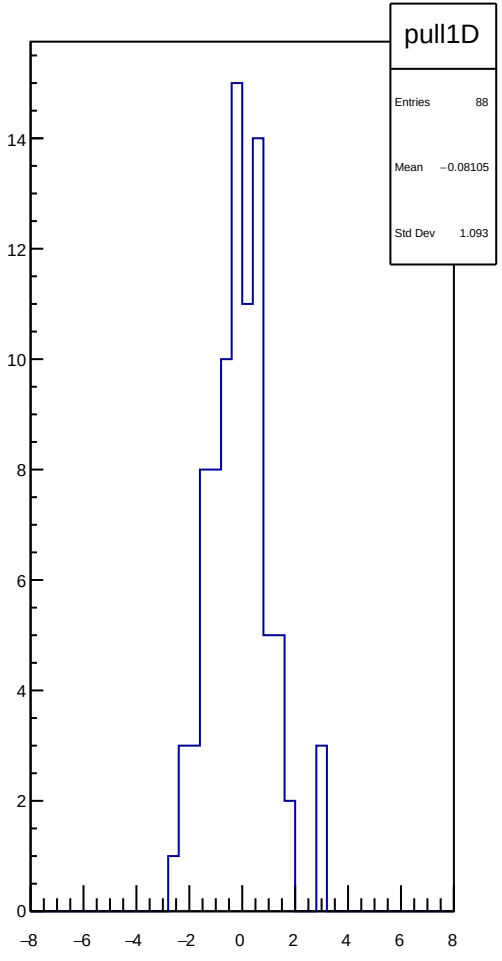

pull1D
Entries 88
Mean 0.02022
Std Dev 1.424

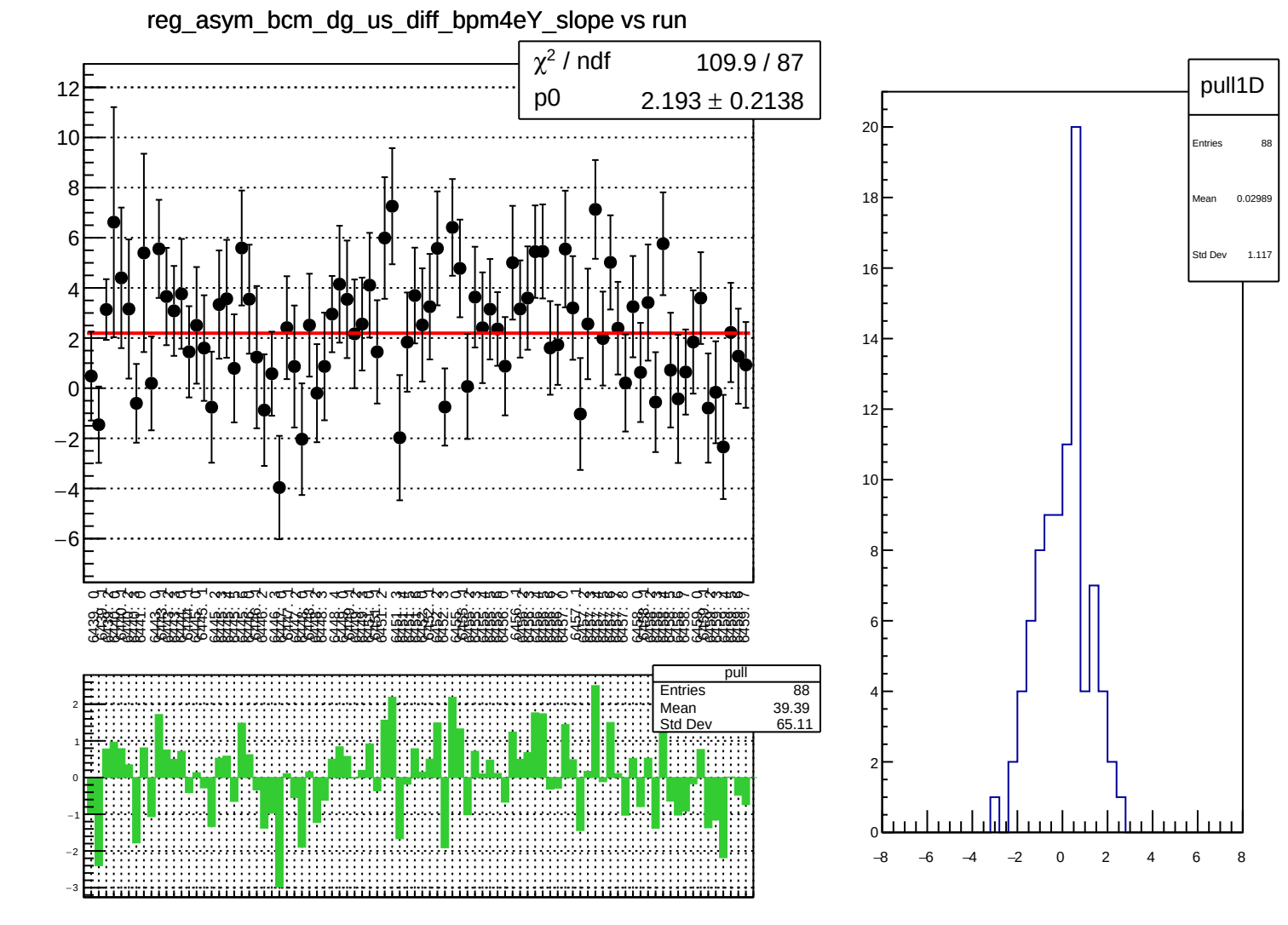

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 102.7 / 87
p0 2.671 ± 0.3039
pull
Entries 88
Mean −1.48
Std Dev 46.27
pull1D
Entries 88
Mean 0.07667
Std Dev 1.078

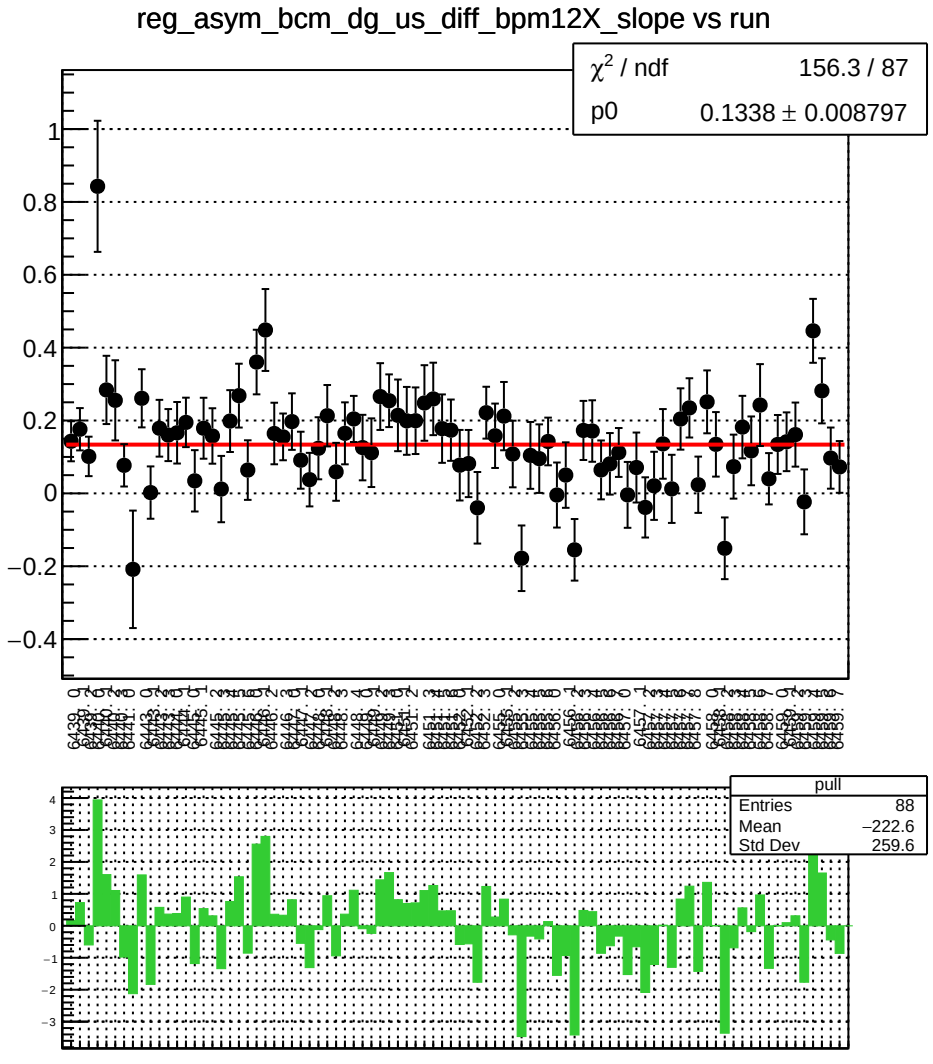

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 107.7 / 87
p0 −0.8338 ± 0.2129
pull
Entries 88
Mean 17.82
Std Dev 36.98

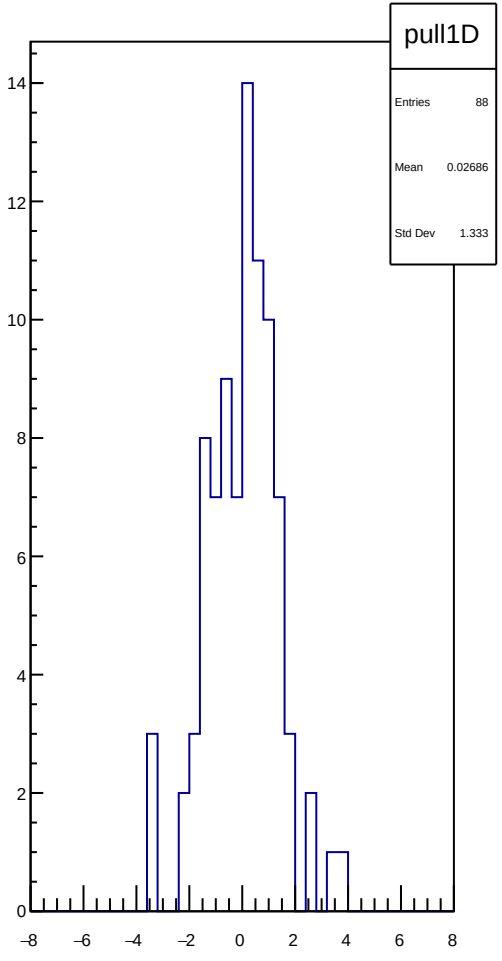

pull1D
Entries 88
Mean −0.02878
Std Dev 1.106


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 105.8 / 87
p0 −3.427 ± 0.3301
pull
Entries 88
Mean 13.53
Std Dev 33.26


pull1D
Entries 88
Mean −0.08105
Std Dev 1.093


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 109.9 / 87
p0 2.193 ± 0.2138
pull
Entries 88
Mean 39.39
Std Dev 65.11
pull1D
Entries 88
Mean 0.02989
Std Dev 1.117


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 156.3 / 87
p0 0.1338 ± 0.008797
pull
Entries 88
Mean −222.6
Std Dev 259.6


pull1D
Entries 88
Mean 0.02686
Std Dev 1.333