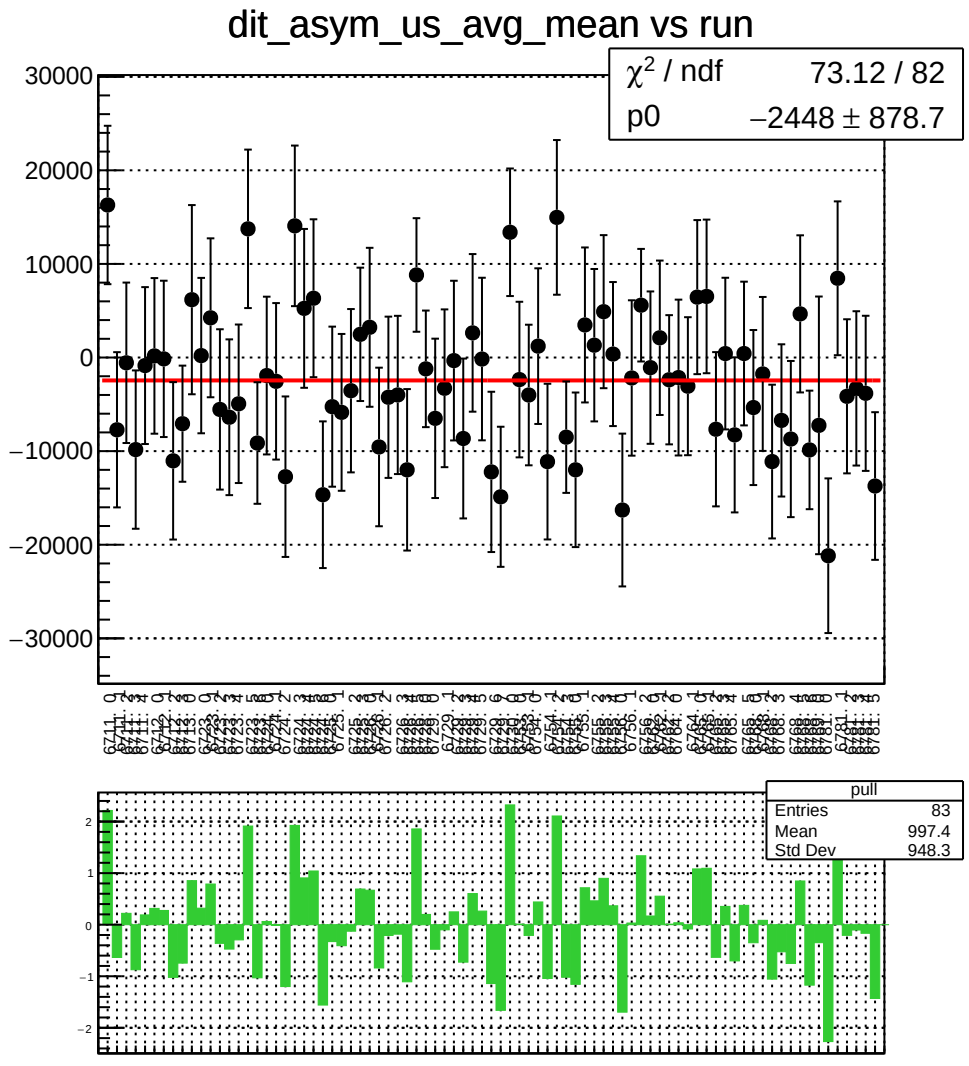
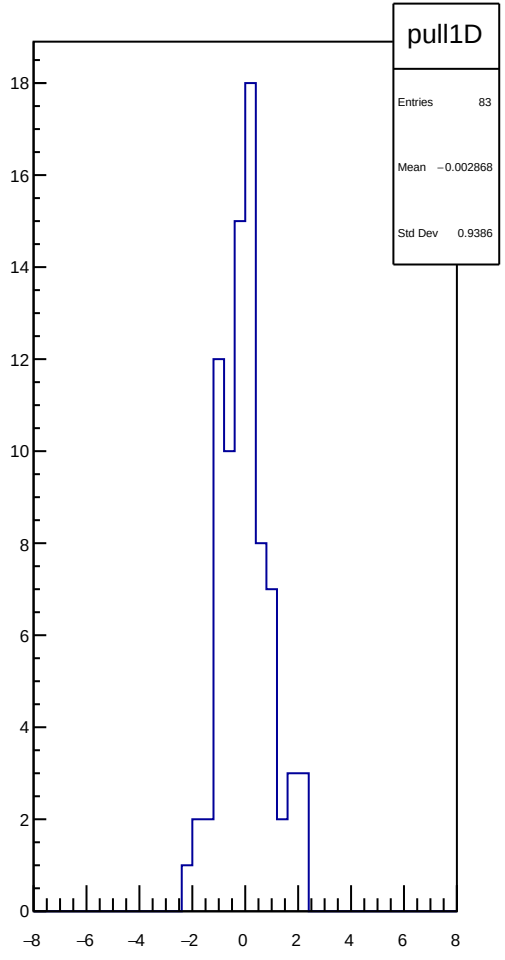
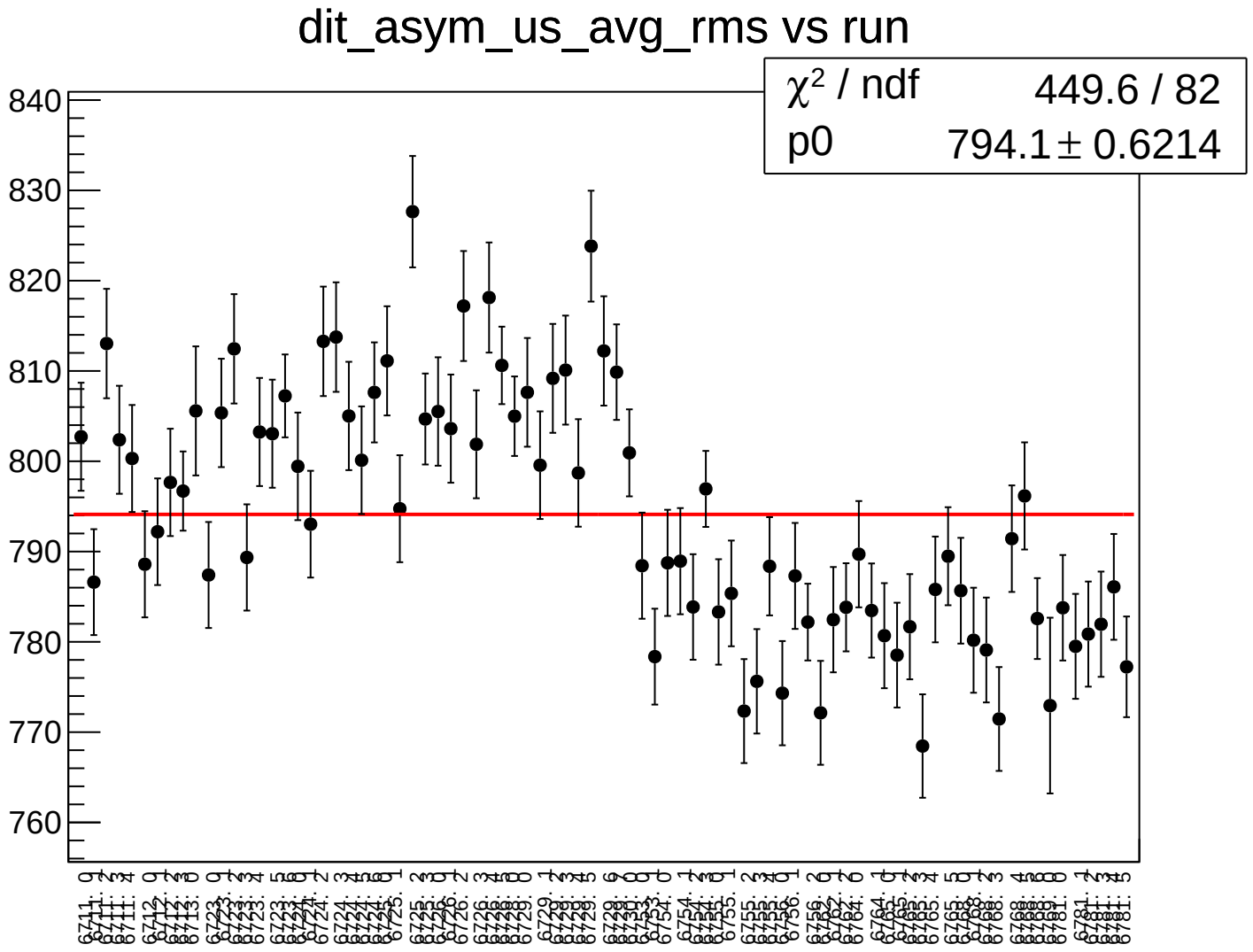
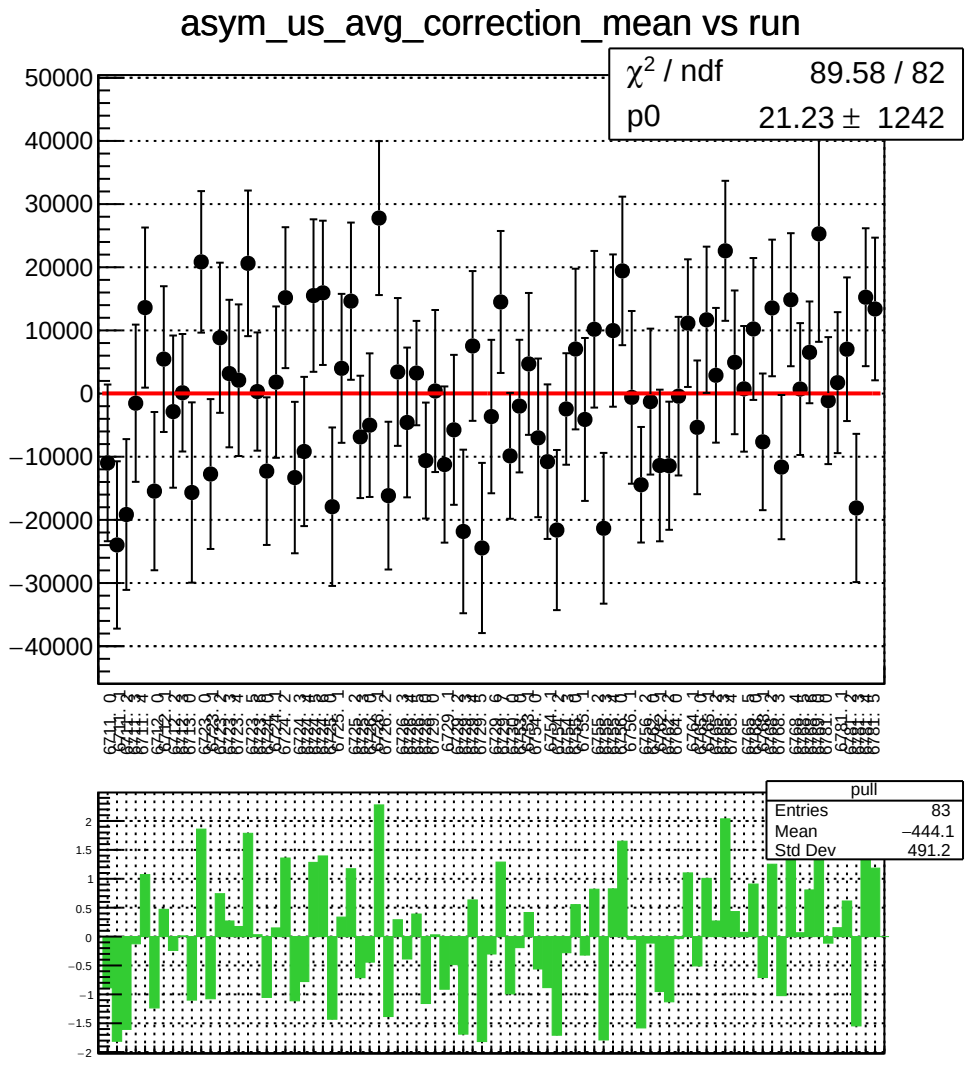
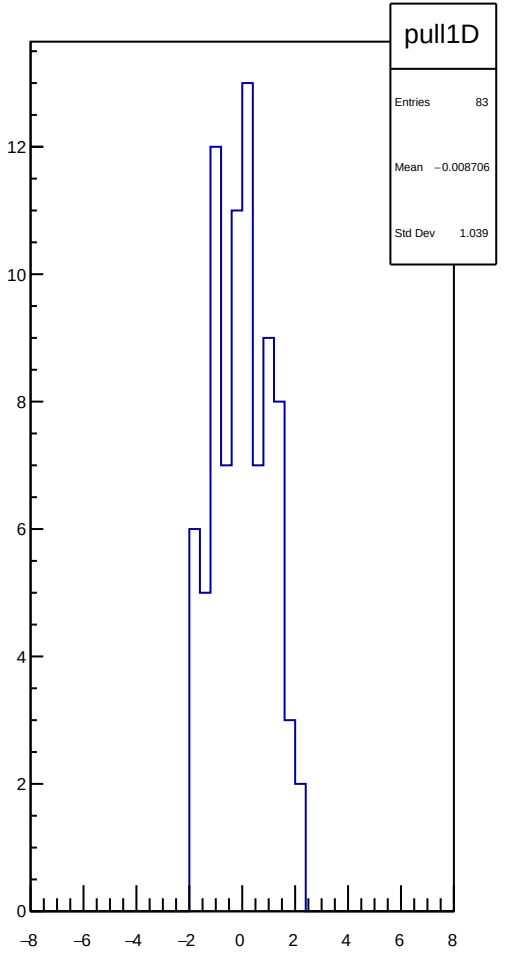
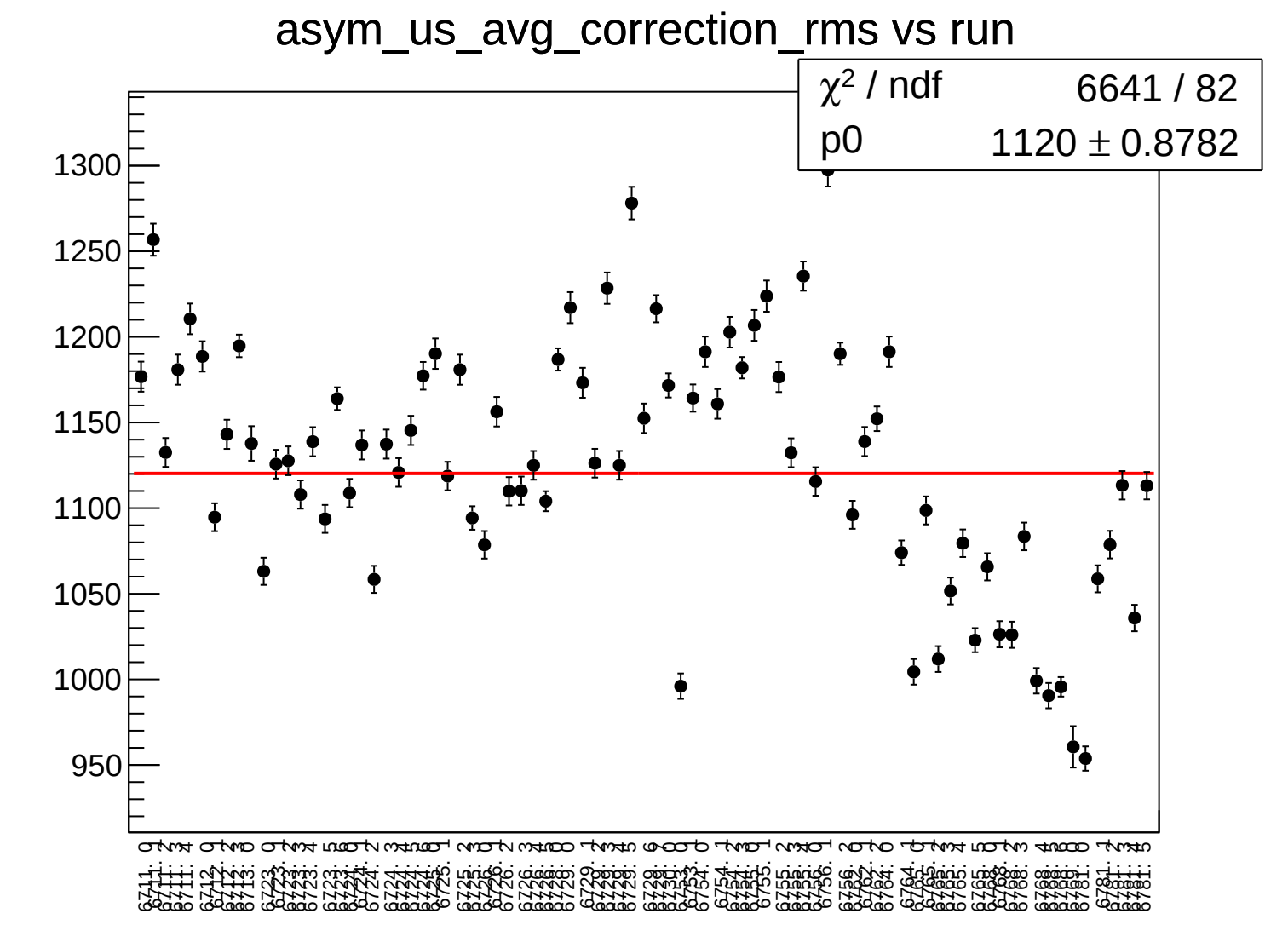

dit_asym_us_avg_mean vs run
χ² / ndf 73.12 / 82
p0 −2448 ± 878.7
pull
Entries 83
Mean 997.4
Std Dev 948.3

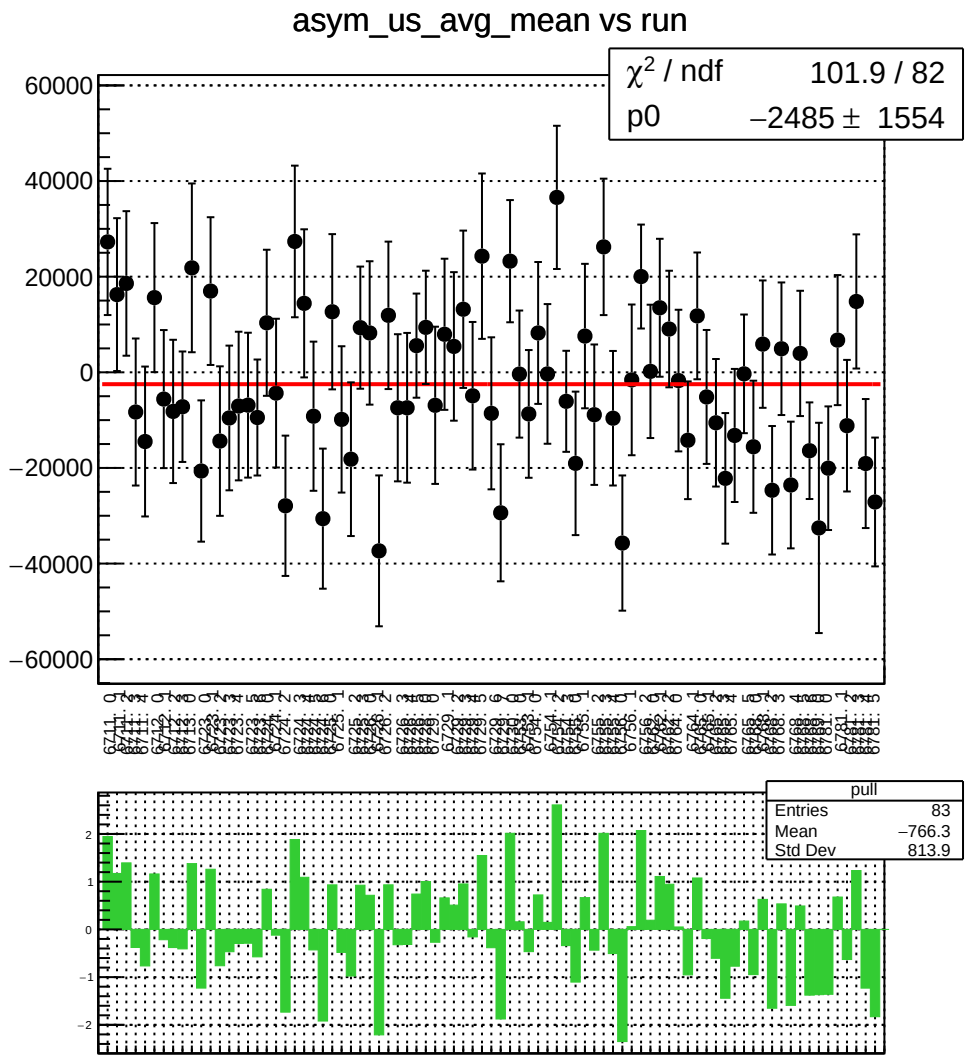

pull1D
Entries 83
Mean −0.002868
Std Dev 0.9386

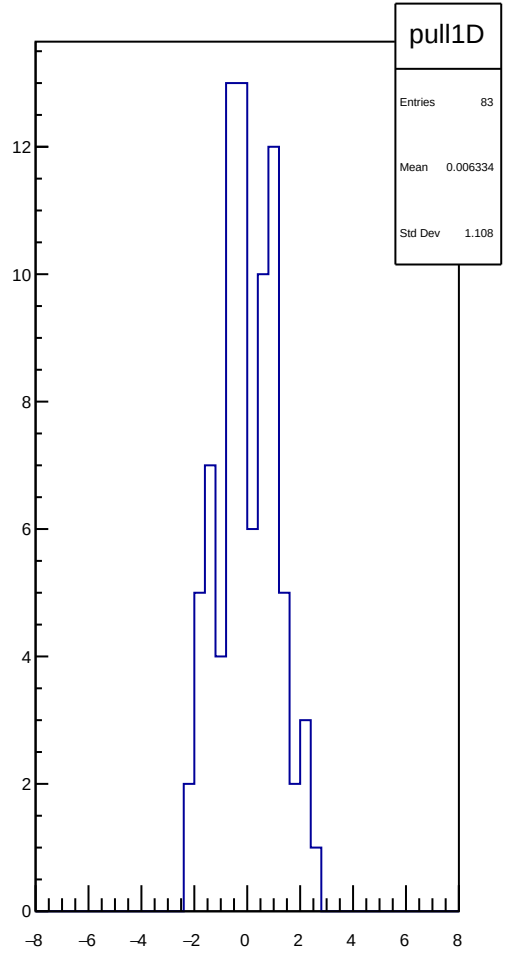

dit_asym_us_avg_rms vs run
χ² / ndf 449.6 / 82
p0 794.1 ± 0.6214
840
830
820
810
800
790
780
770
760

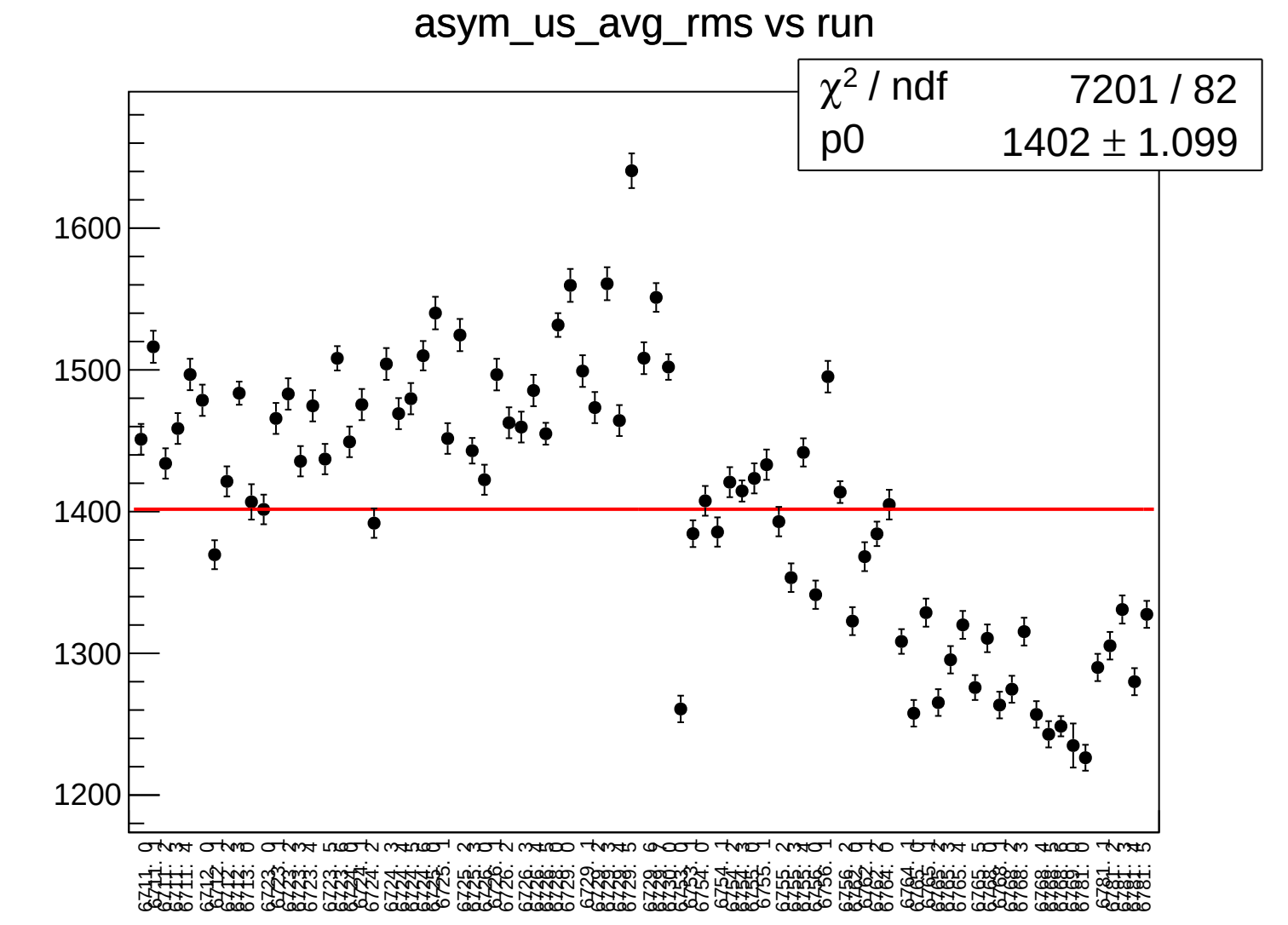

asym_us_avg_correction_mean vs run
χ² / ndf 89.58 / 82
p0 21.23 ± 1242
pull
Entries 83
Mean −444.1
Std Dev 491.2

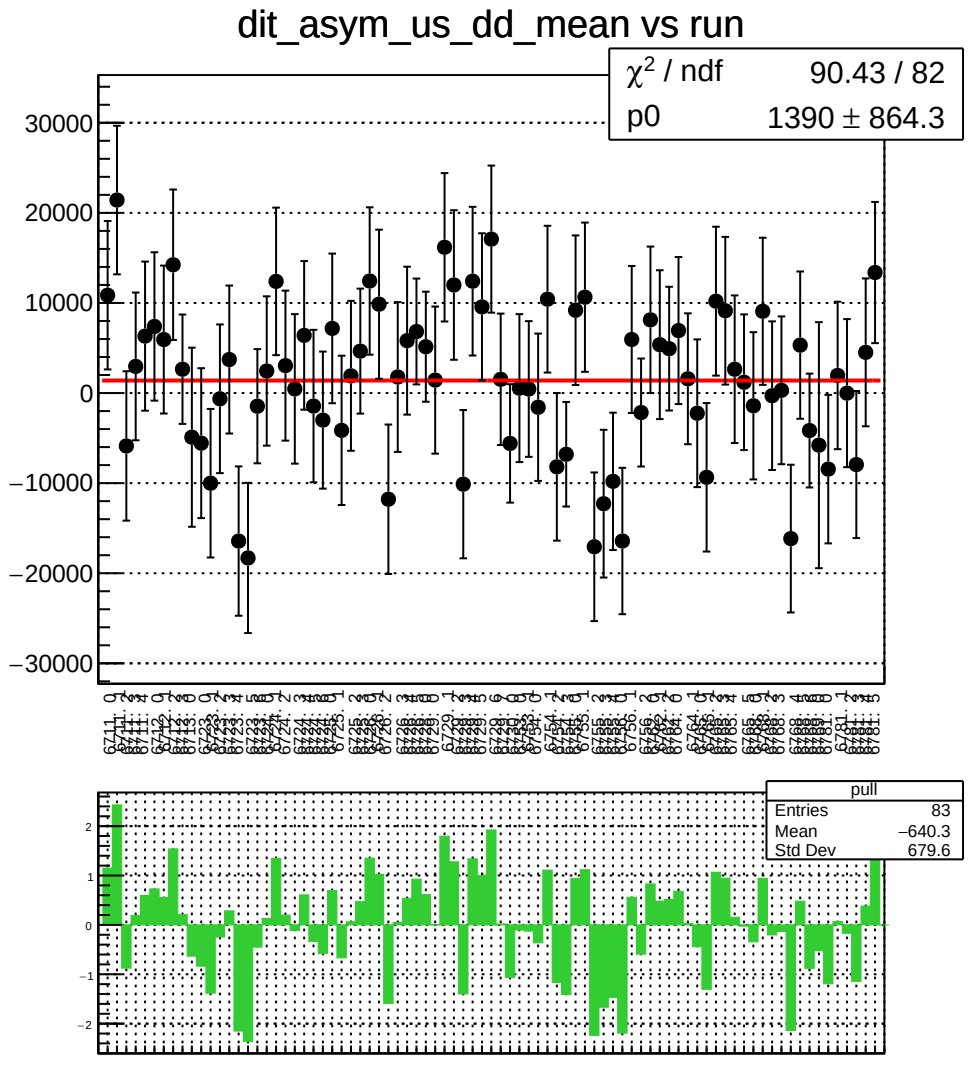

pull1D
Entries 83
Mean −0.008706
Std Dev 1.039

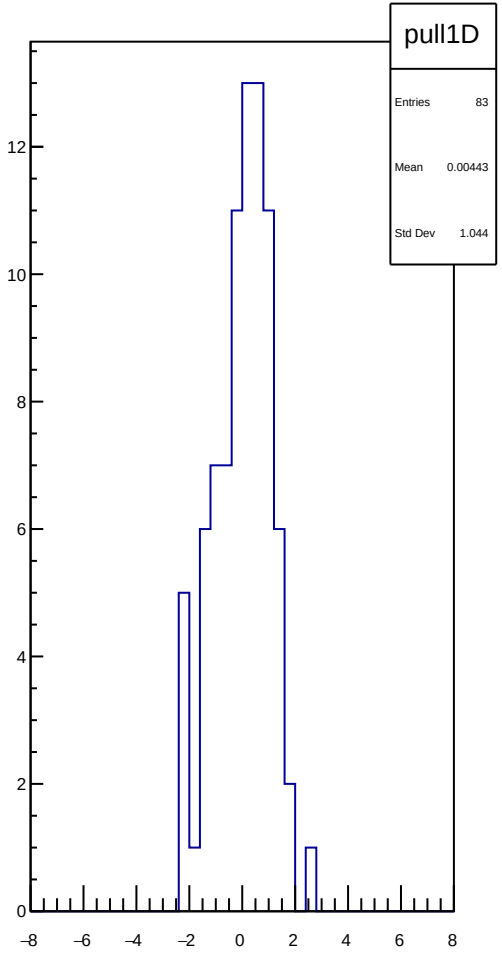

asym_us_avg_correction_rms vs run
χ² / ndf 6641 / 82
p0 1120 ± 0.8782
1300
1250
1200
1150
1100
1050
1000
950

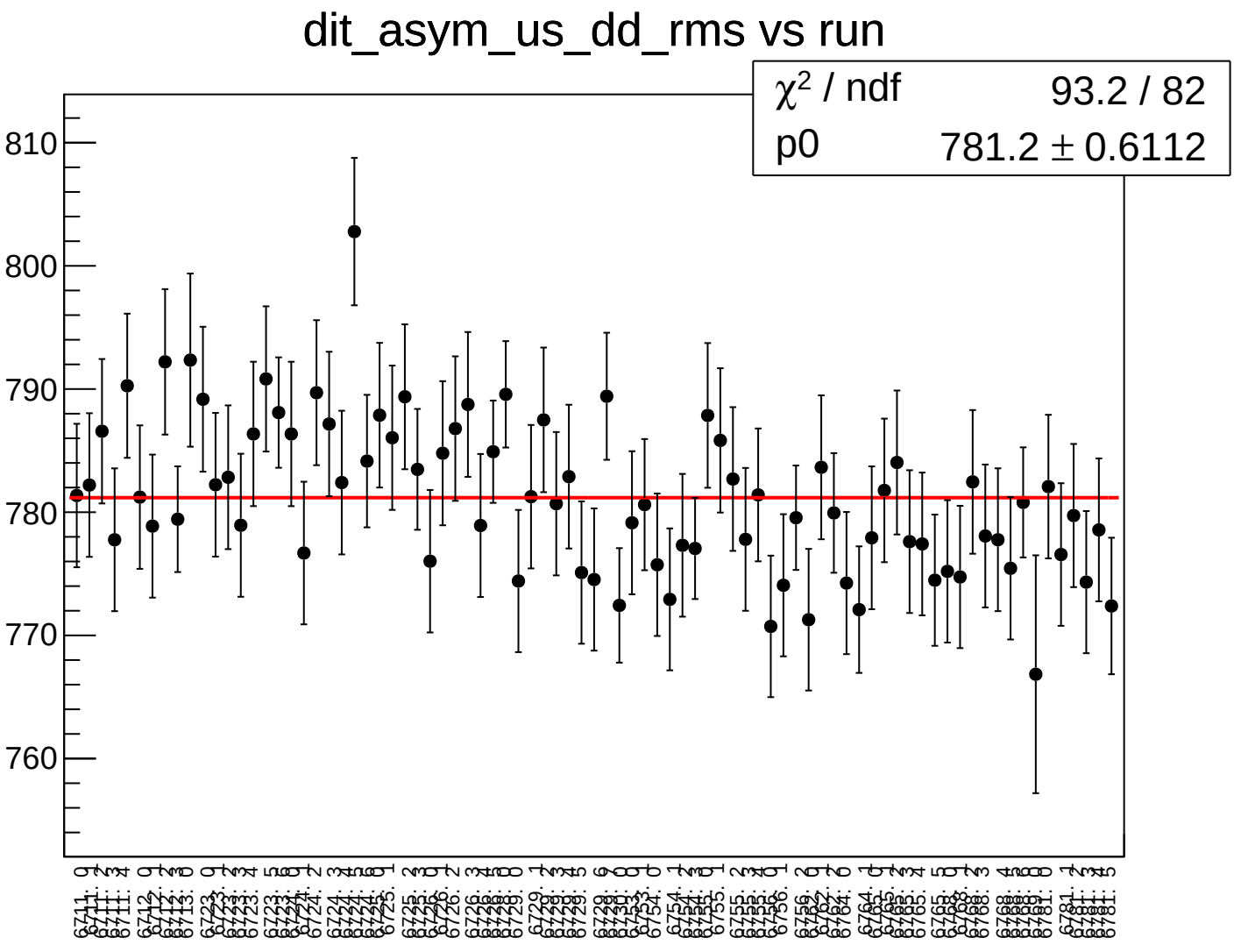

asym_us_avg_mean vs run
χ² / ndf 101.9 / 82
p0 −2485 ± 1554
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean −766.3
Std Dev 813.9
2
1
0
−1
−2

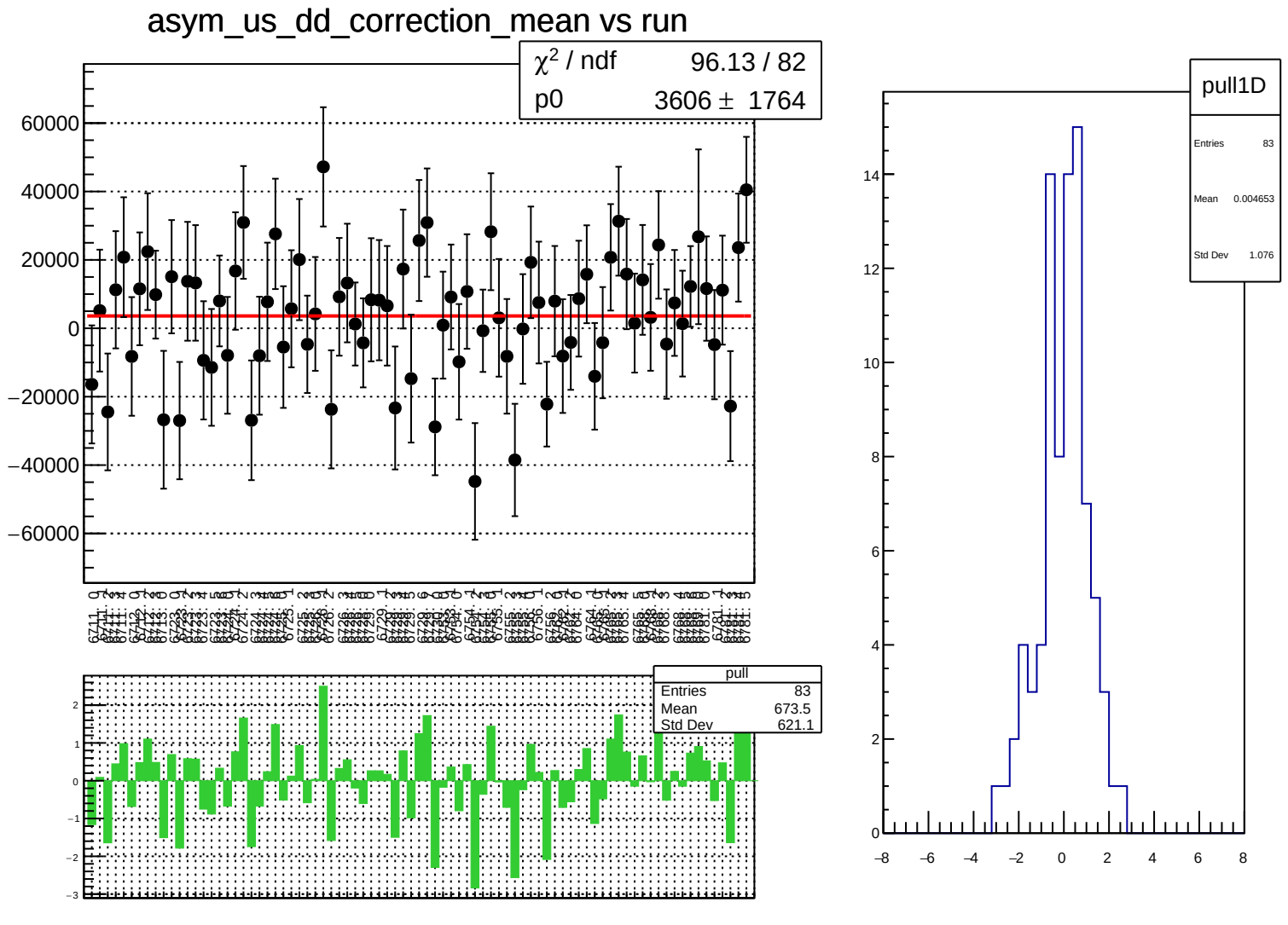

pull1D
Entries 83
Mean 0.006334
Std Dev 1.108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

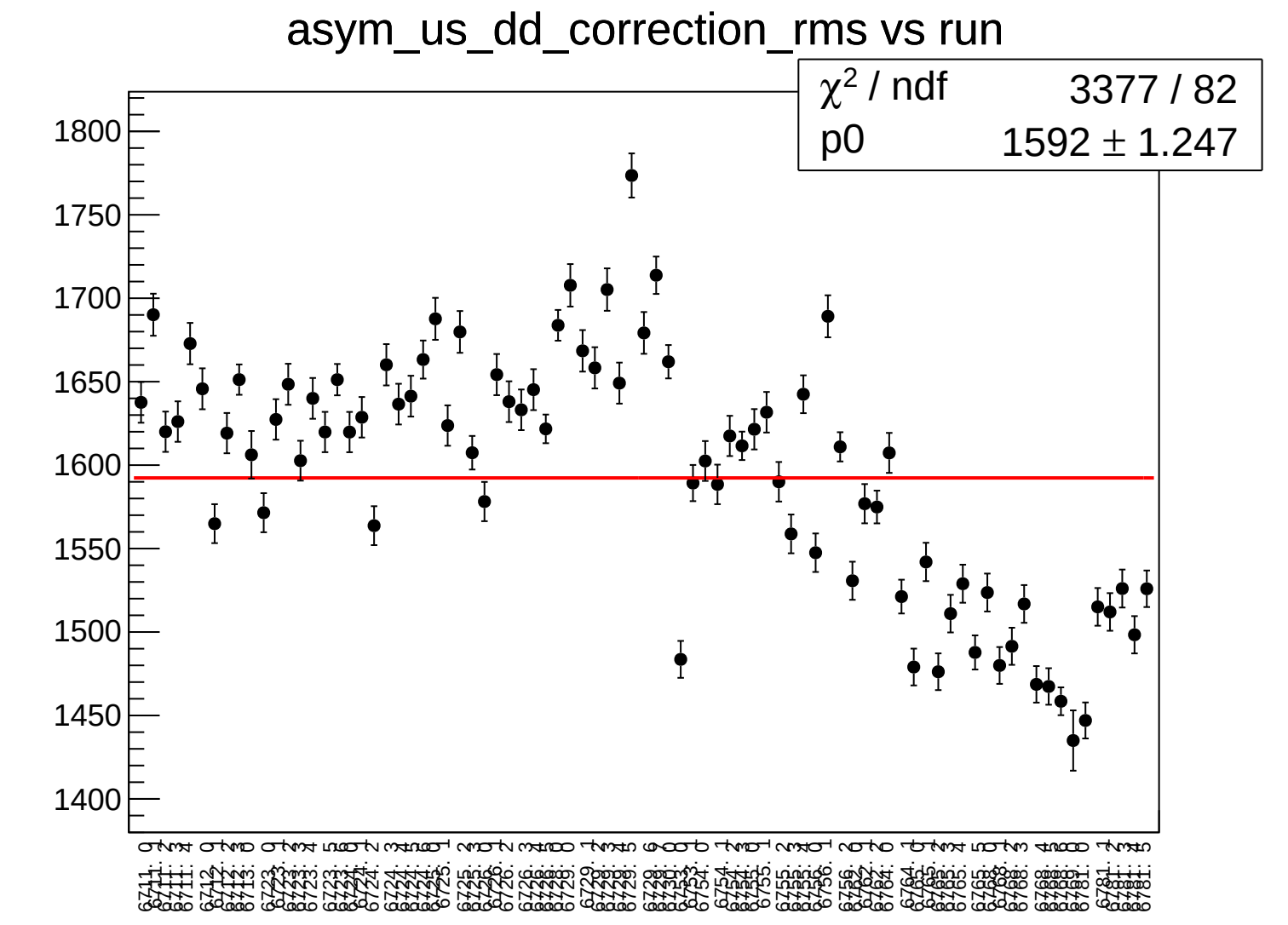

asym_us_avg_rms vs run
χ^2 / ndf 7201 / 82
p0 1402 ± 1.099
1600
1500
1400
1300
1200

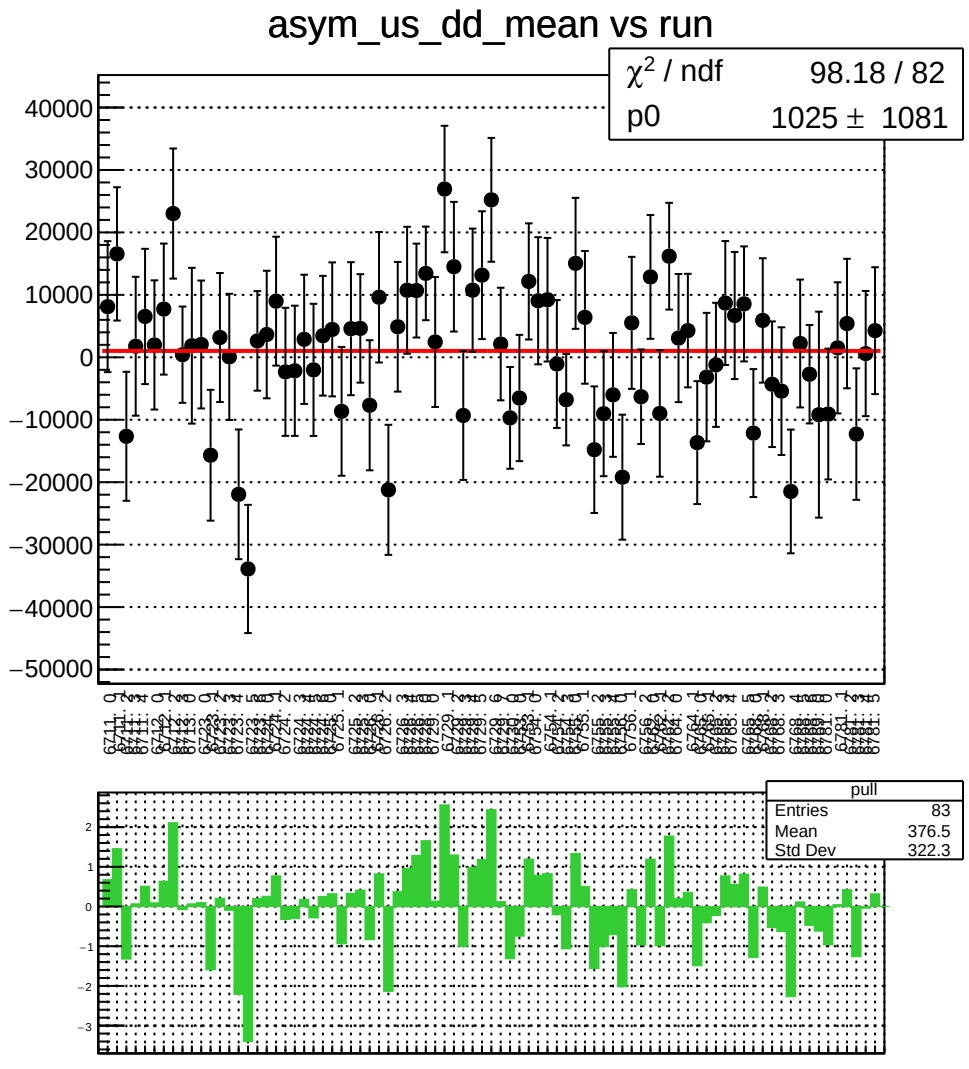

dit_asym_us_dd_mean vs run
χ² / ndf 90.43 / 82
p0 1390 ± 864.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean −640.3
Std Dev 679.6
2
1
0
−1
−2

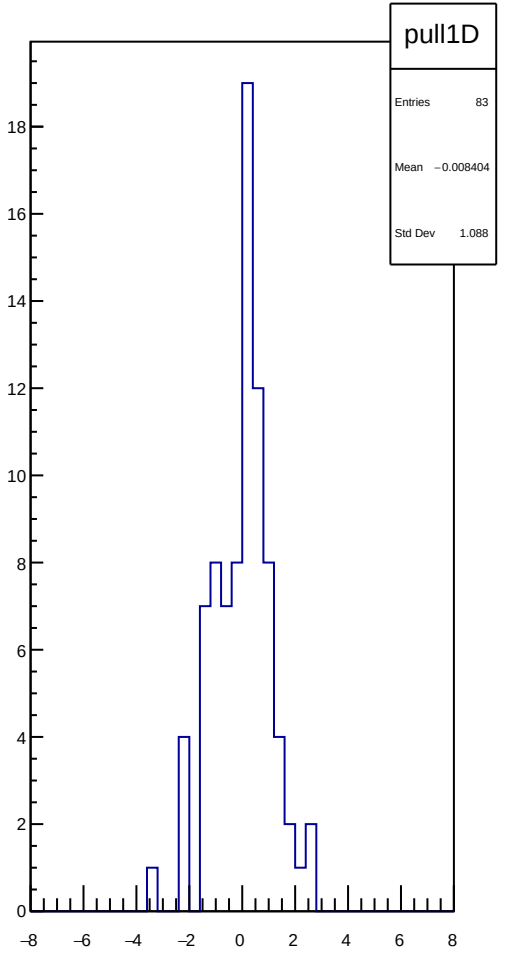

pull1D
Entries 83
Mean 0.00443
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

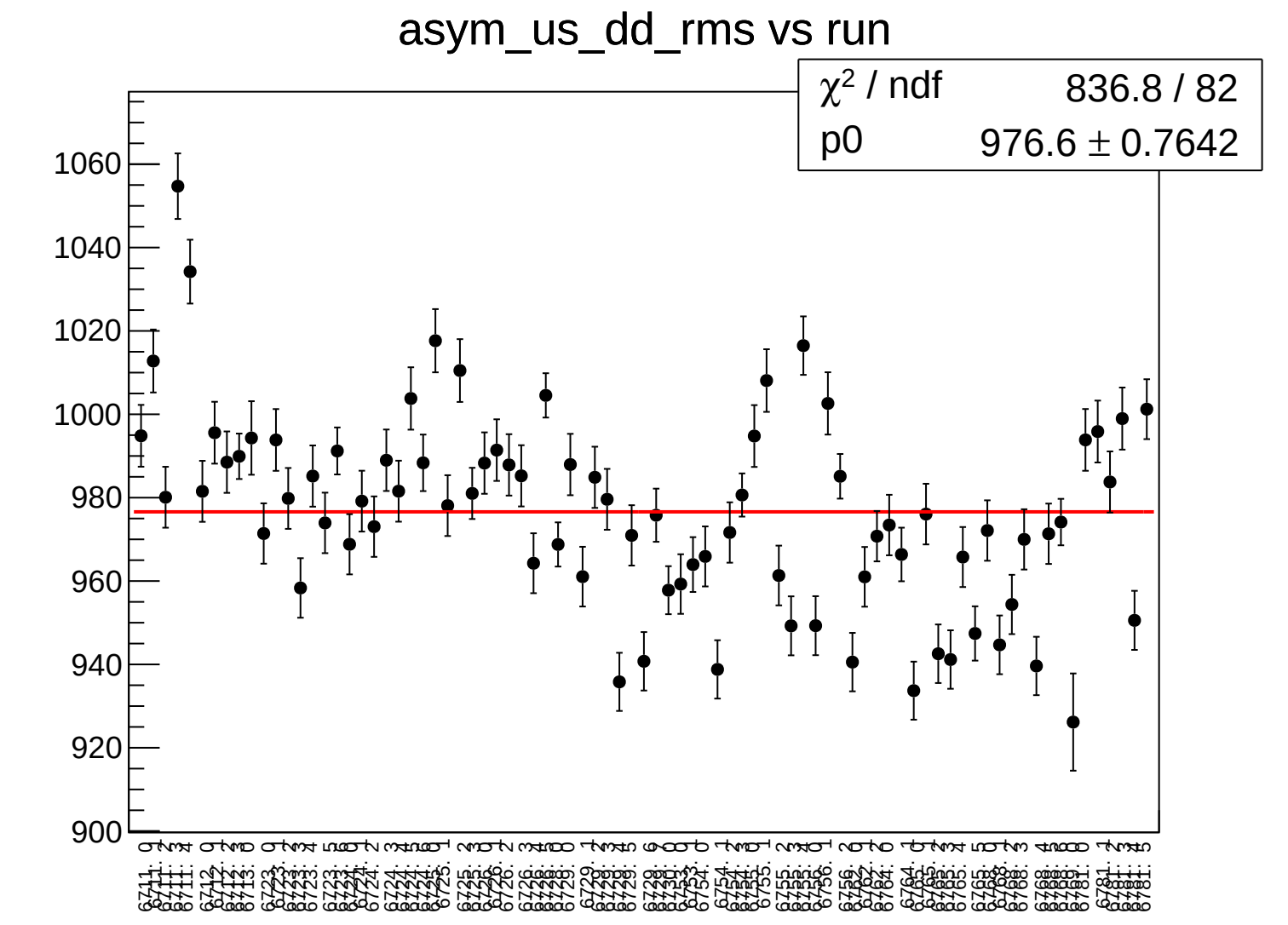

dit_asym_us_dd_rms vs run
χ² / ndf 93.2 / 82
p0 781.2 ± 0.6112
810
800
790
780
770
760

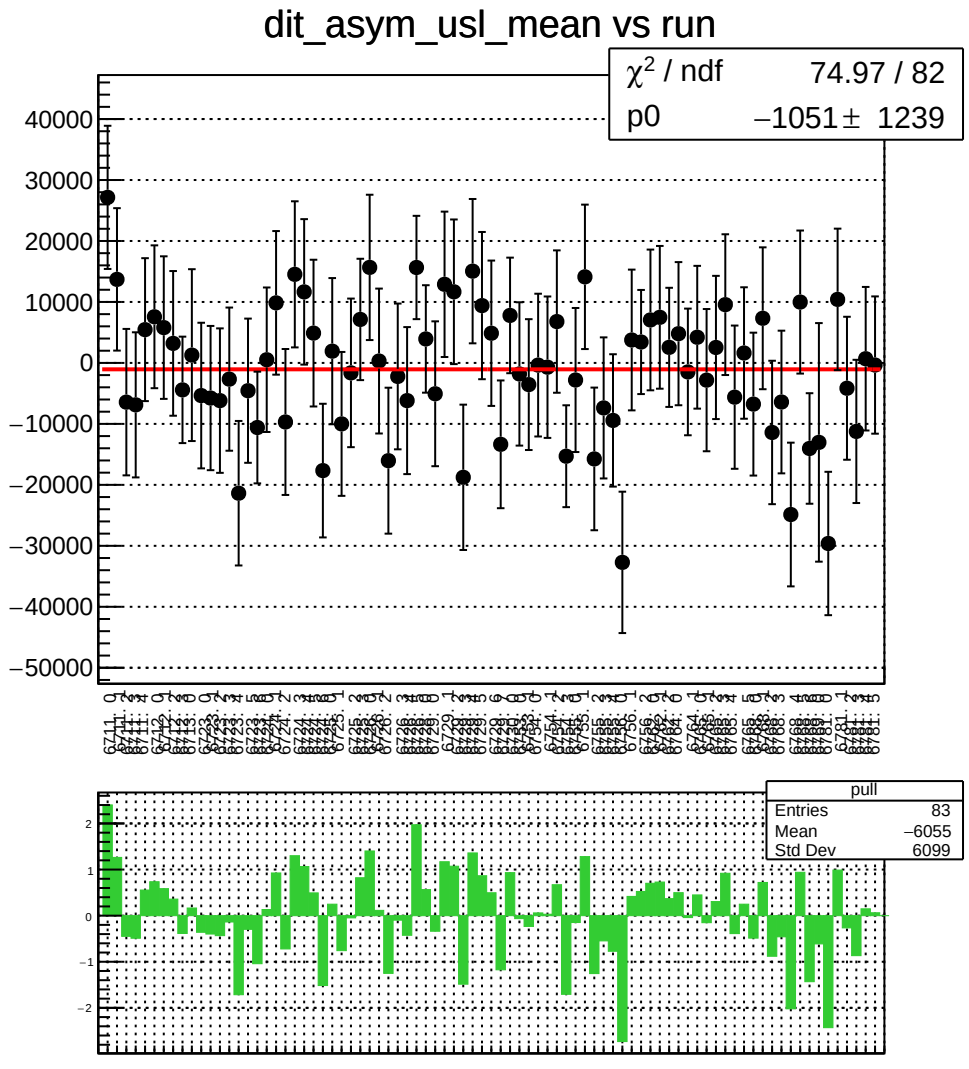

asym_us_dd_correction_mean vs run
χ² / ndf 96.13 / 82
p0 3606 ± 1764
pull
Entries 83
Mean 673.5
Std Dev 621.1
pull1D
Entries 83
Mean 0.004653
Std Dev 1.076

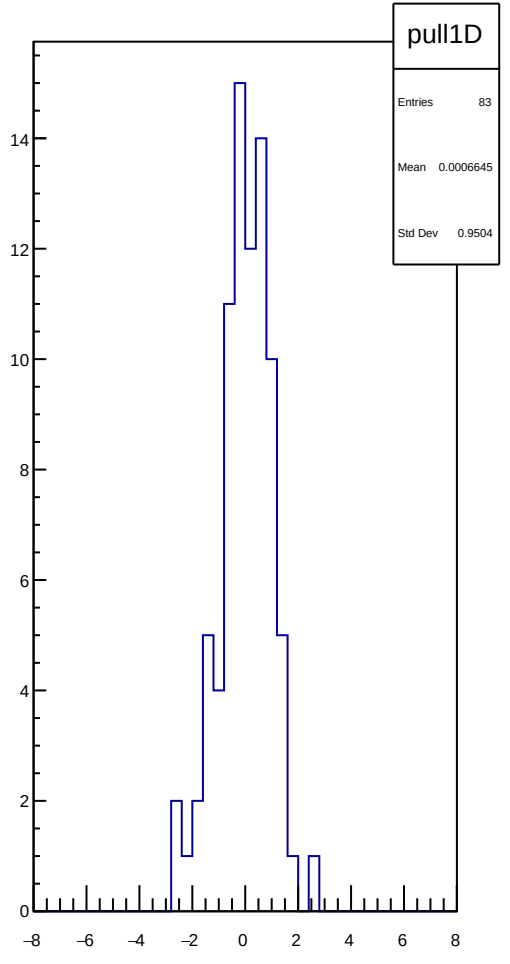

asym_us_dd_correction_rms vs run
χ² / ndf 3377 / 82
p0 1592 ± 1.247
1800
1750
1700
1650
1600
1550
1500
1450
1400

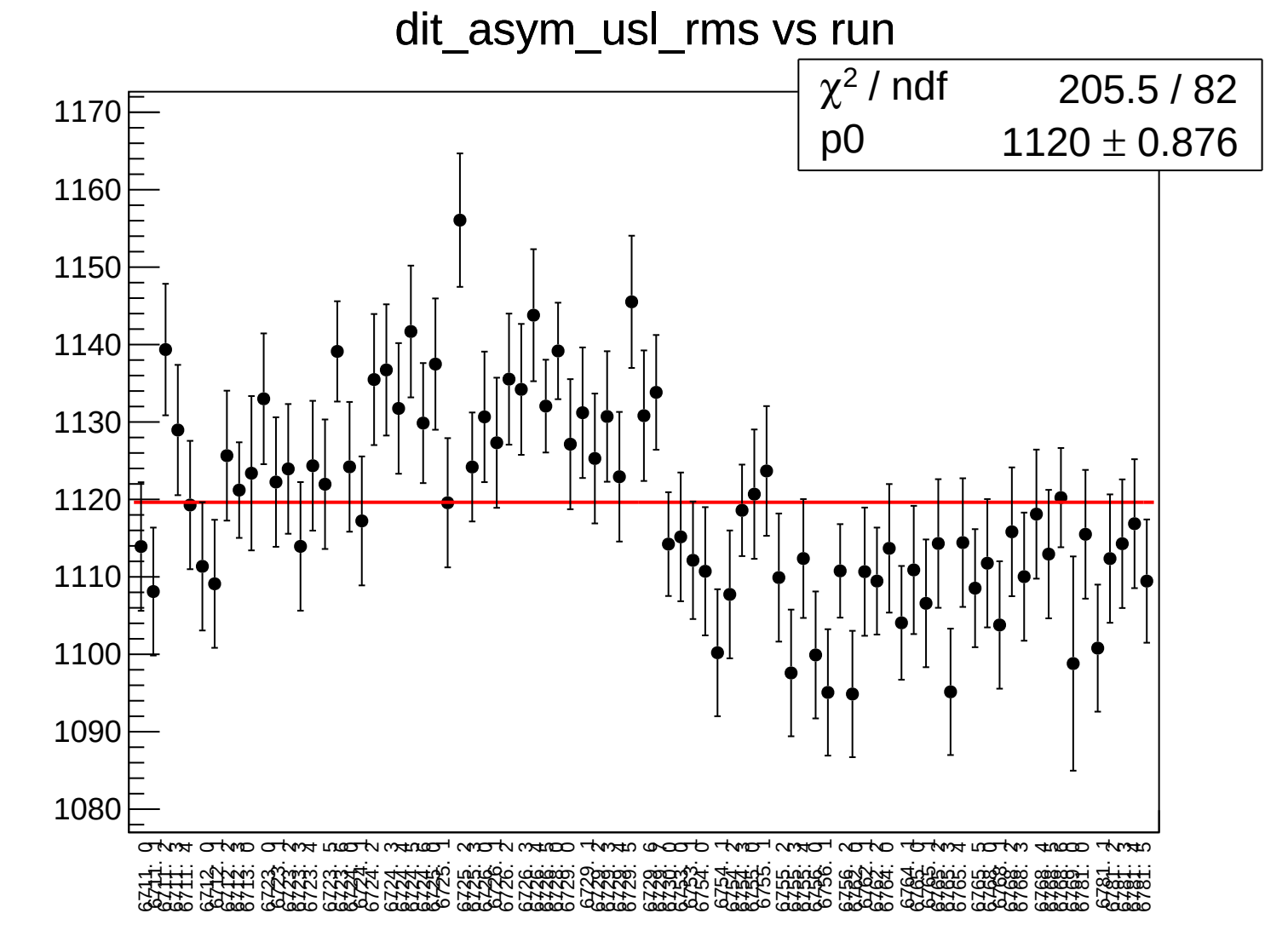

asym_us_dd_mean vs run
χ² / ndf 98.18 / 82
p0 1025 ± 1081
pull
Entries 83
Mean 376.5
Std Dev 322.3

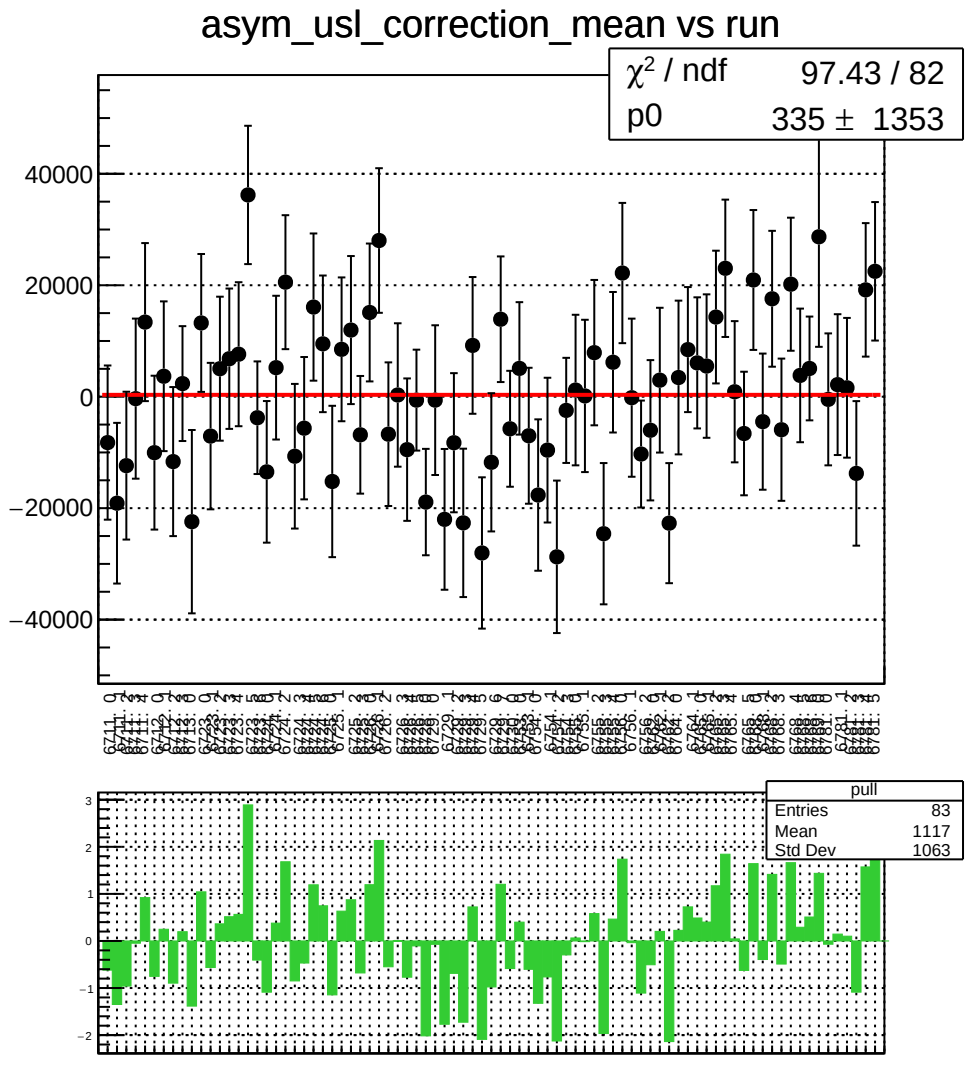

pull1D
Entries 83
Mean −0.008404
Std Dev 1.088

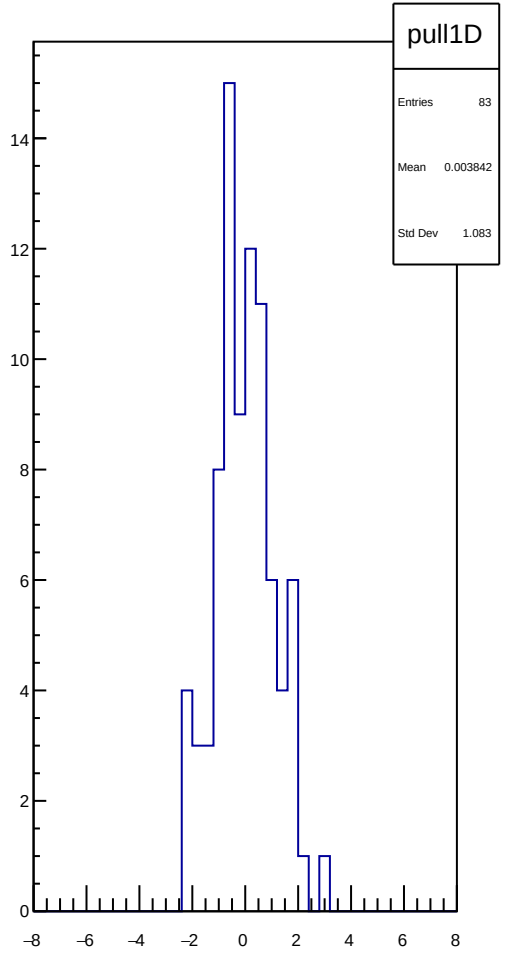

asym_us_dd_rms vs run
χ² / ndf 836.8 / 82
p0 976.6 ± 0.7642
1060
1040
1020
1000
980
960
940
920
900

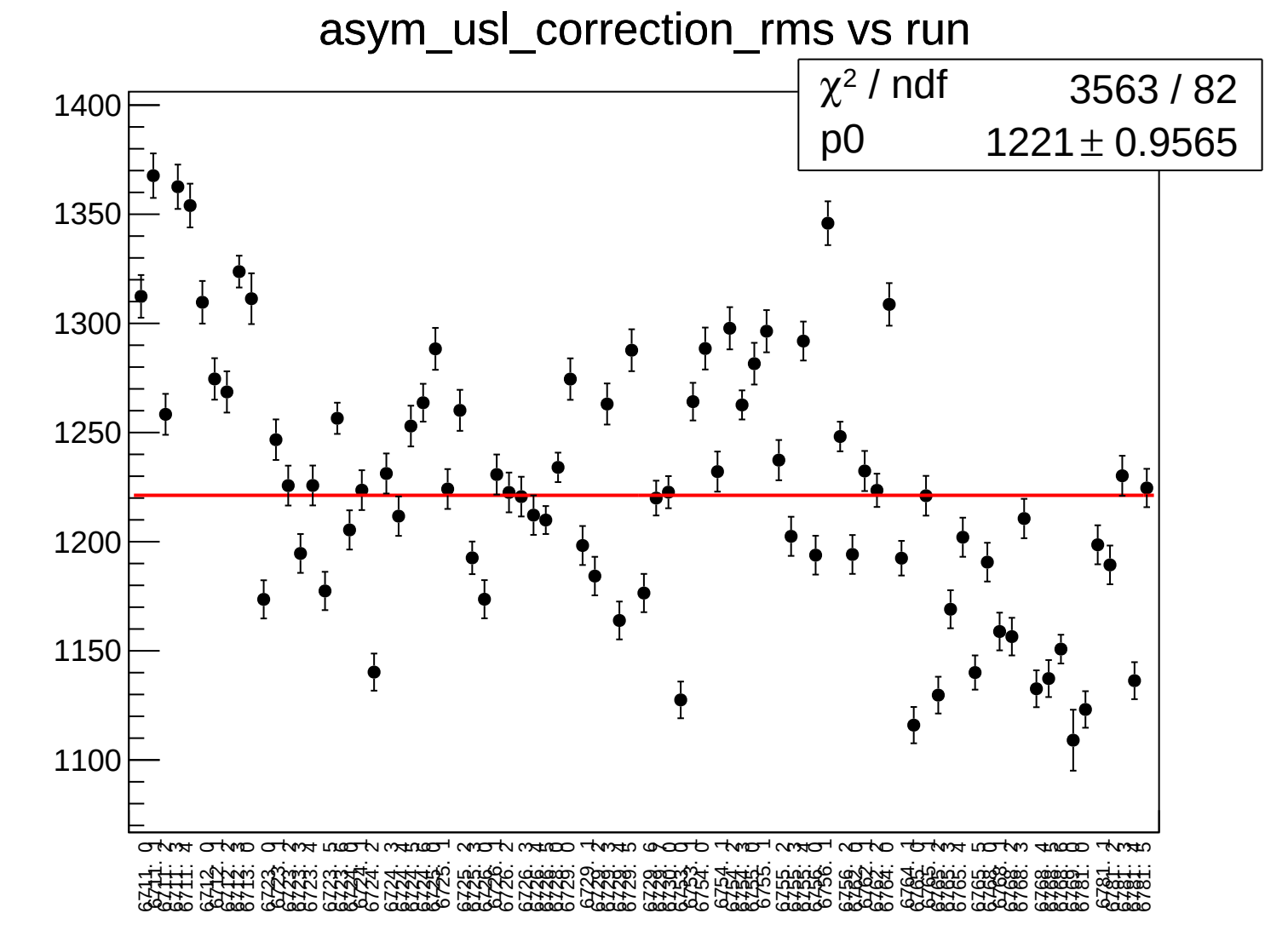

dit_asym_usl_mean vs run
χ² / ndf 74.97 / 82
p0 −1051 ± 1239
pull
Entries 83
Mean −6055
Std Dev 6099

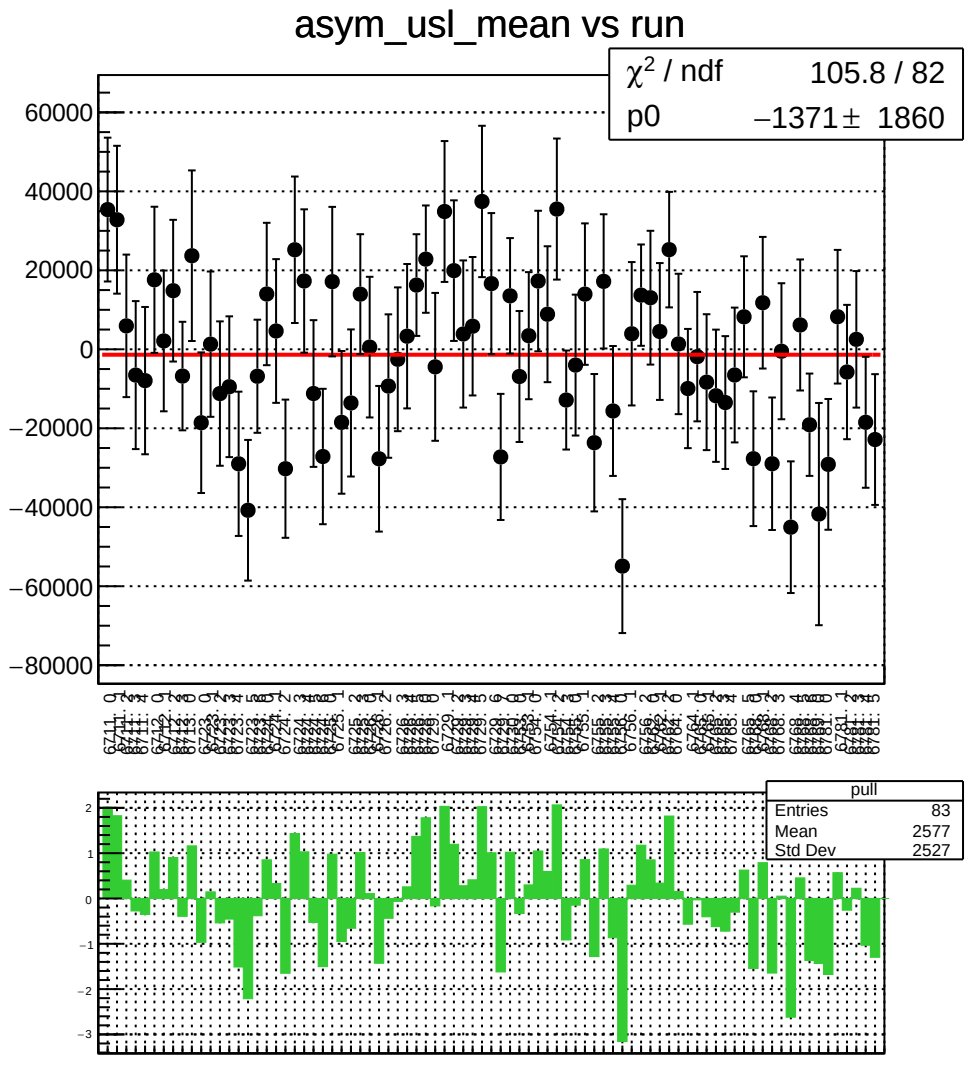

pull1D
Entries 83
Mean 0.0006645
Std Dev 0.9504

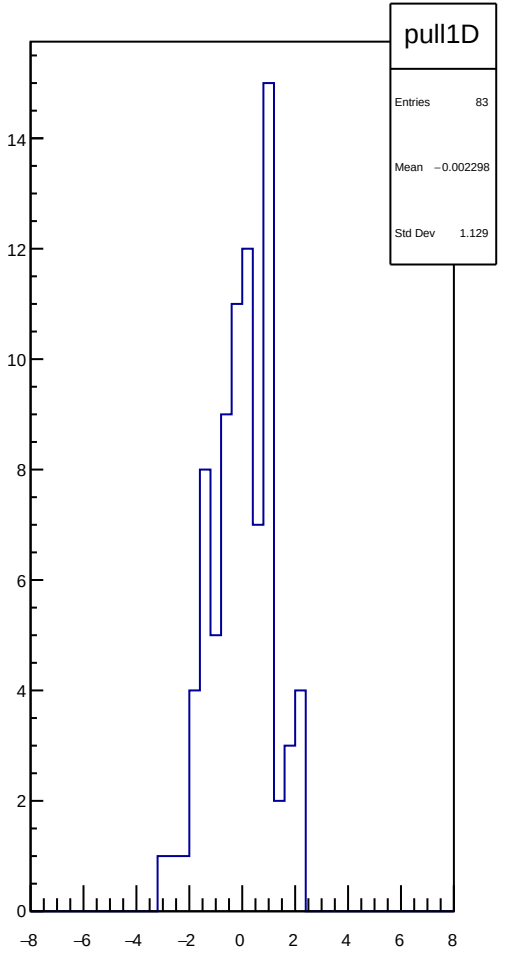

dit_asym_usl_rms vs run
χ² / ndf 205.5 / 82
p0 1120 ± 0.876
1170
1160
1150
1140
1130
1120
1110
1100
1090
1080

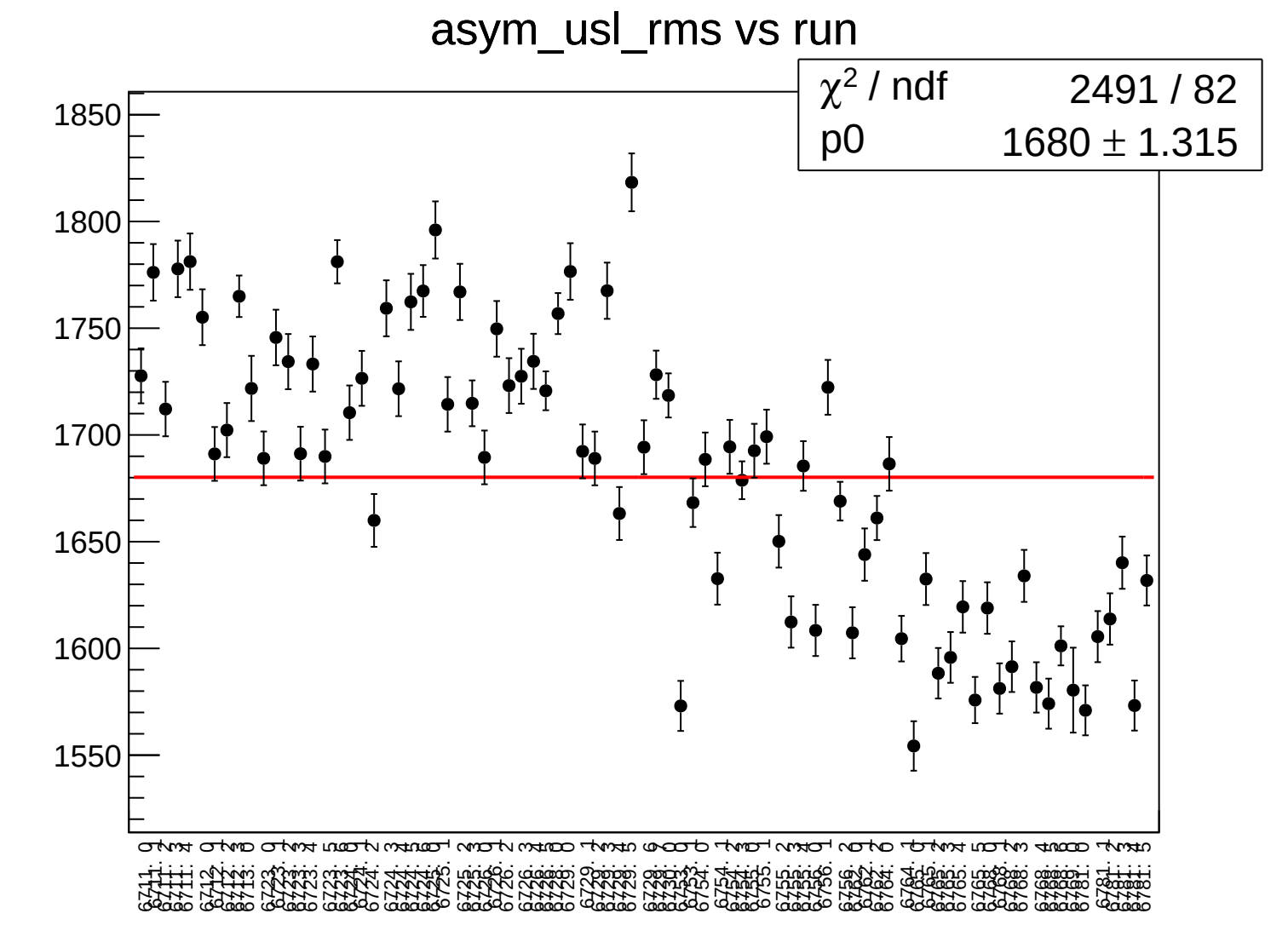

asym_usl_correction_mean vs run
χ² / ndf 97.43 / 82
p0 335 ± 1353
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 1117
Std Dev 1063
3
2
1
0
−1
−2

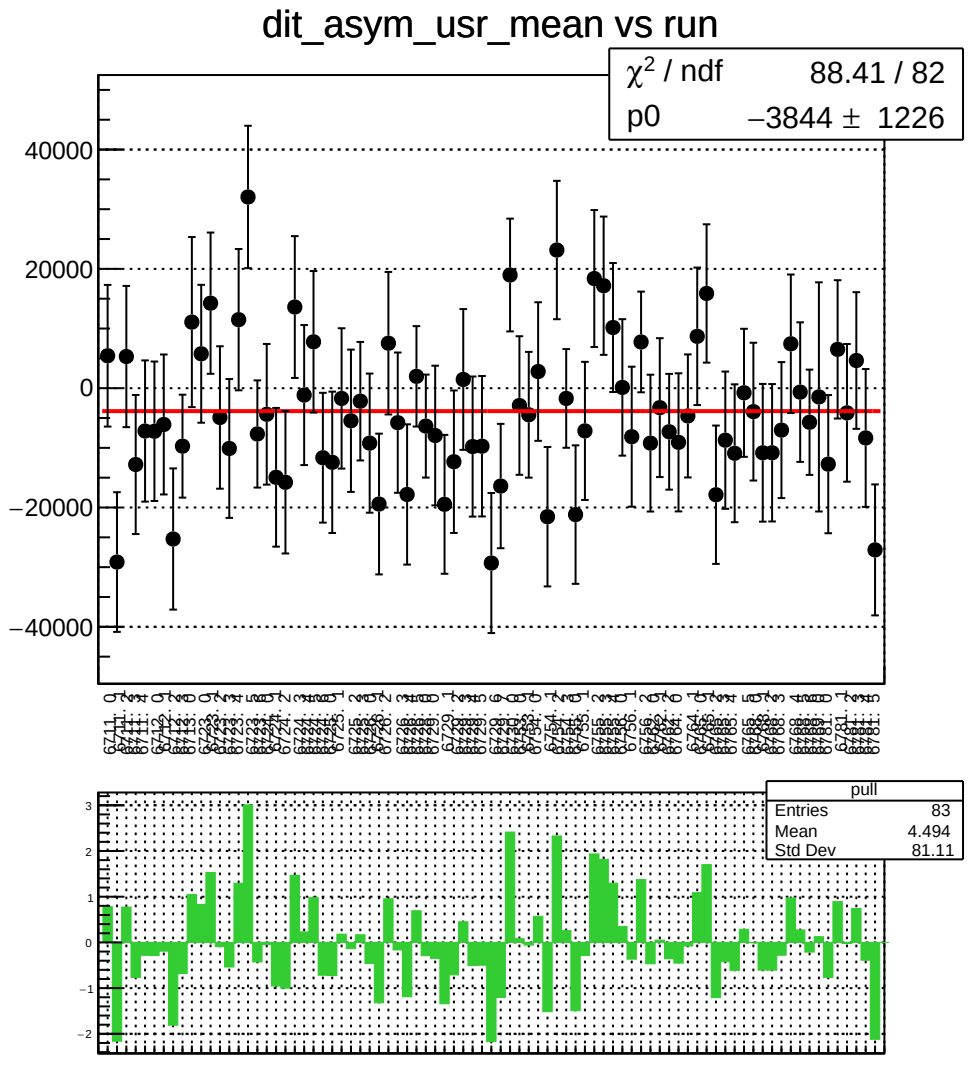

pull1D
Entries 83
Mean 0.003842
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

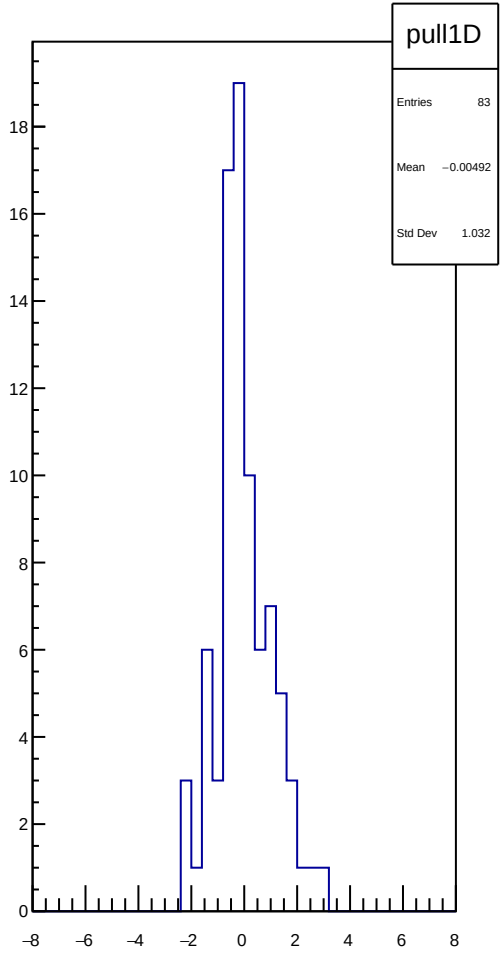

asym_usl_correction_rms vs run
χ² / ndf 3563 / 82
p0 1221 ± 0.9565
1400
1350
1300
1250
1200
1150
1100


asym_usl_mean vs run
χ² / ndf 105.8 / 82
p0 −1371 ± 1860
pull
Entries 83
Mean 2577
Std Dev 2527

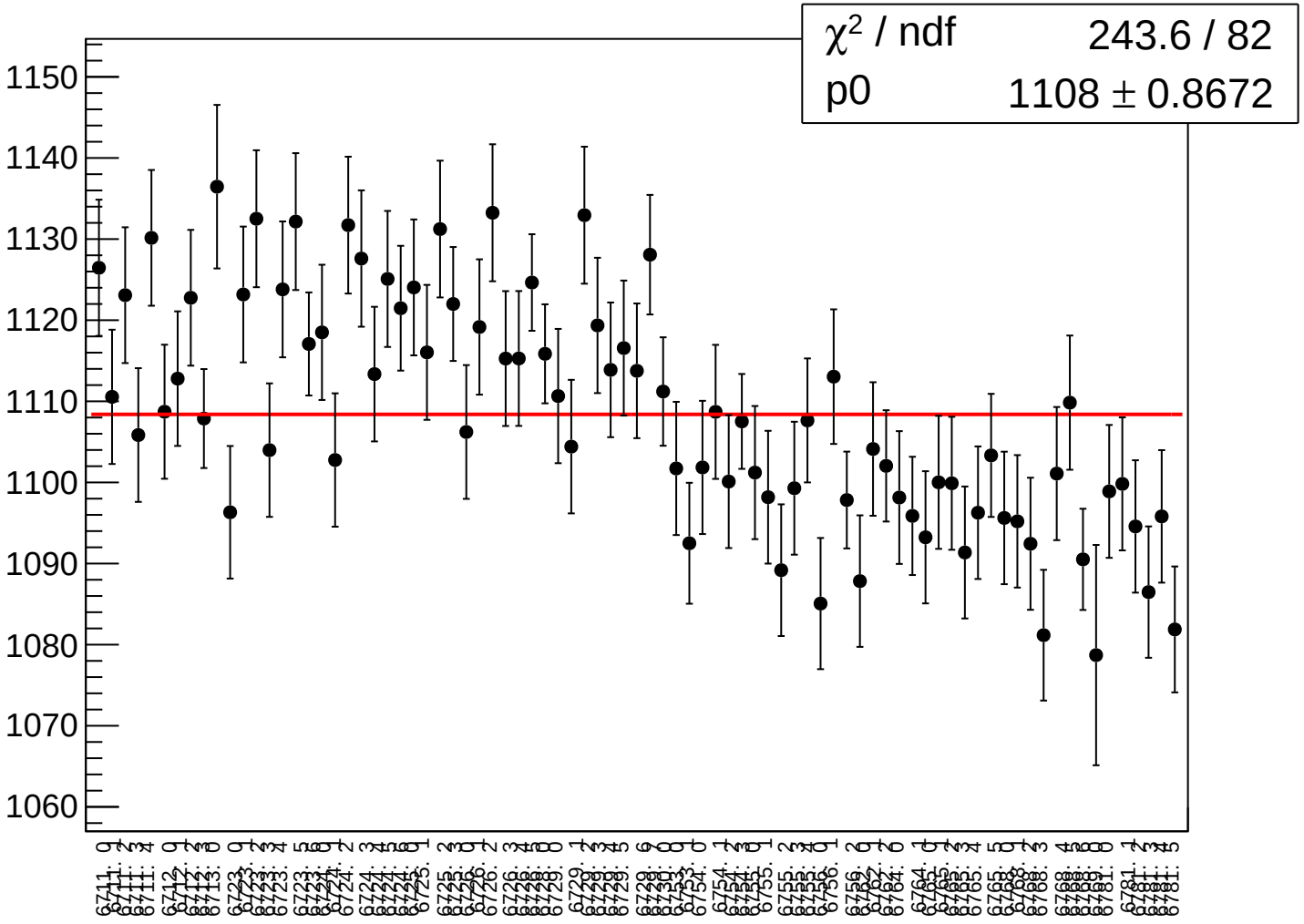

pull1D
Entries 83
Mean −0.002298
Std Dev 1.129

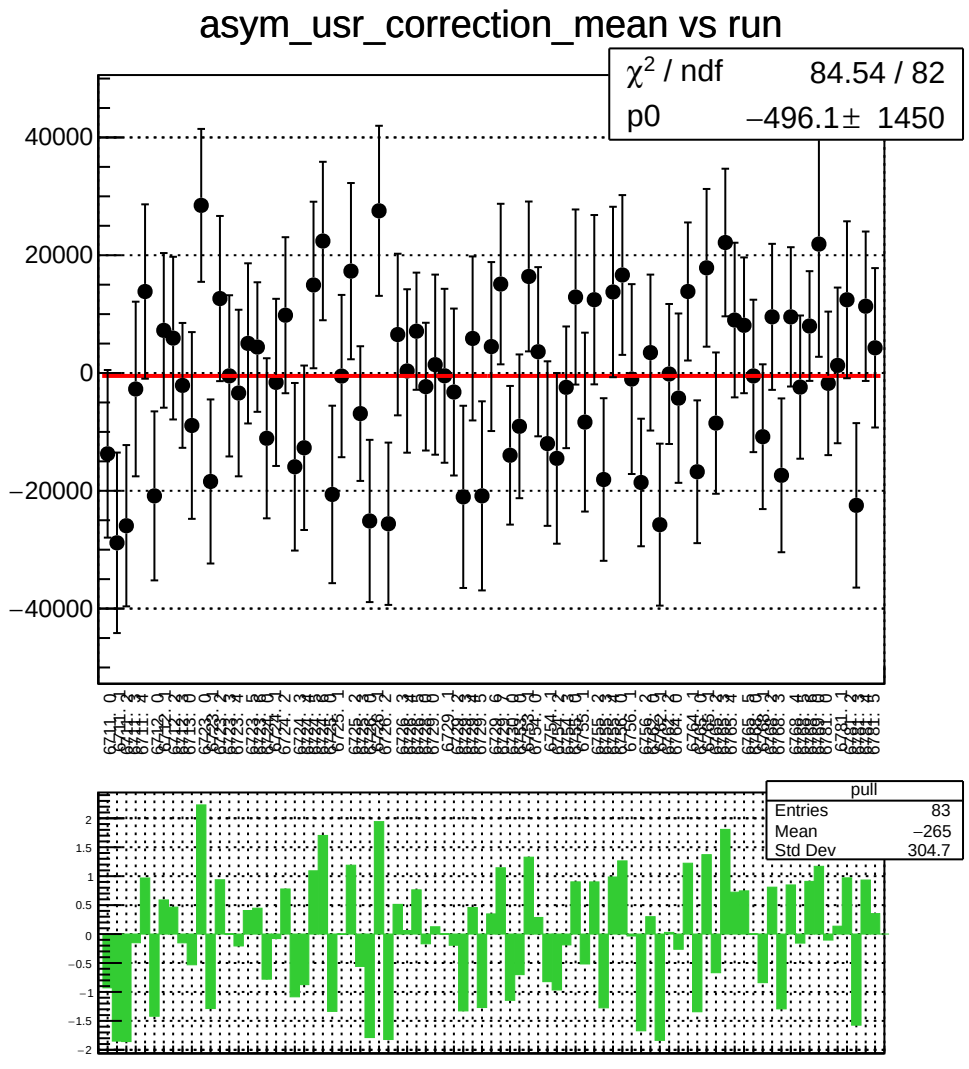

asym_usl_rms vs run
χ² / ndf 2491 / 82
p0 1680 ± 1.315
1850
1800
1750
1700
1650
1600
1550

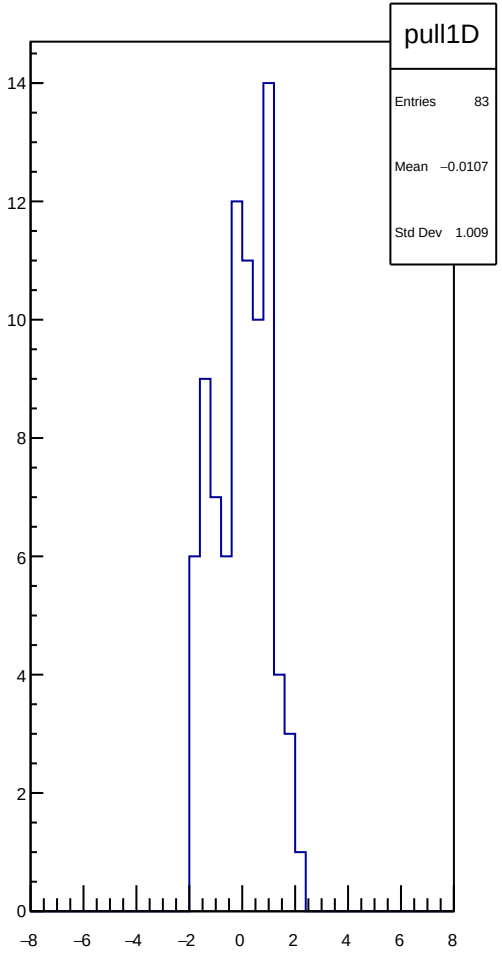

dit_asym_usr_mean vs run
χ² / ndf 88.41 / 82
p0 −3844 ± 1226
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 4.494
Std Dev 81.11
3
2
1
0
−1
−2

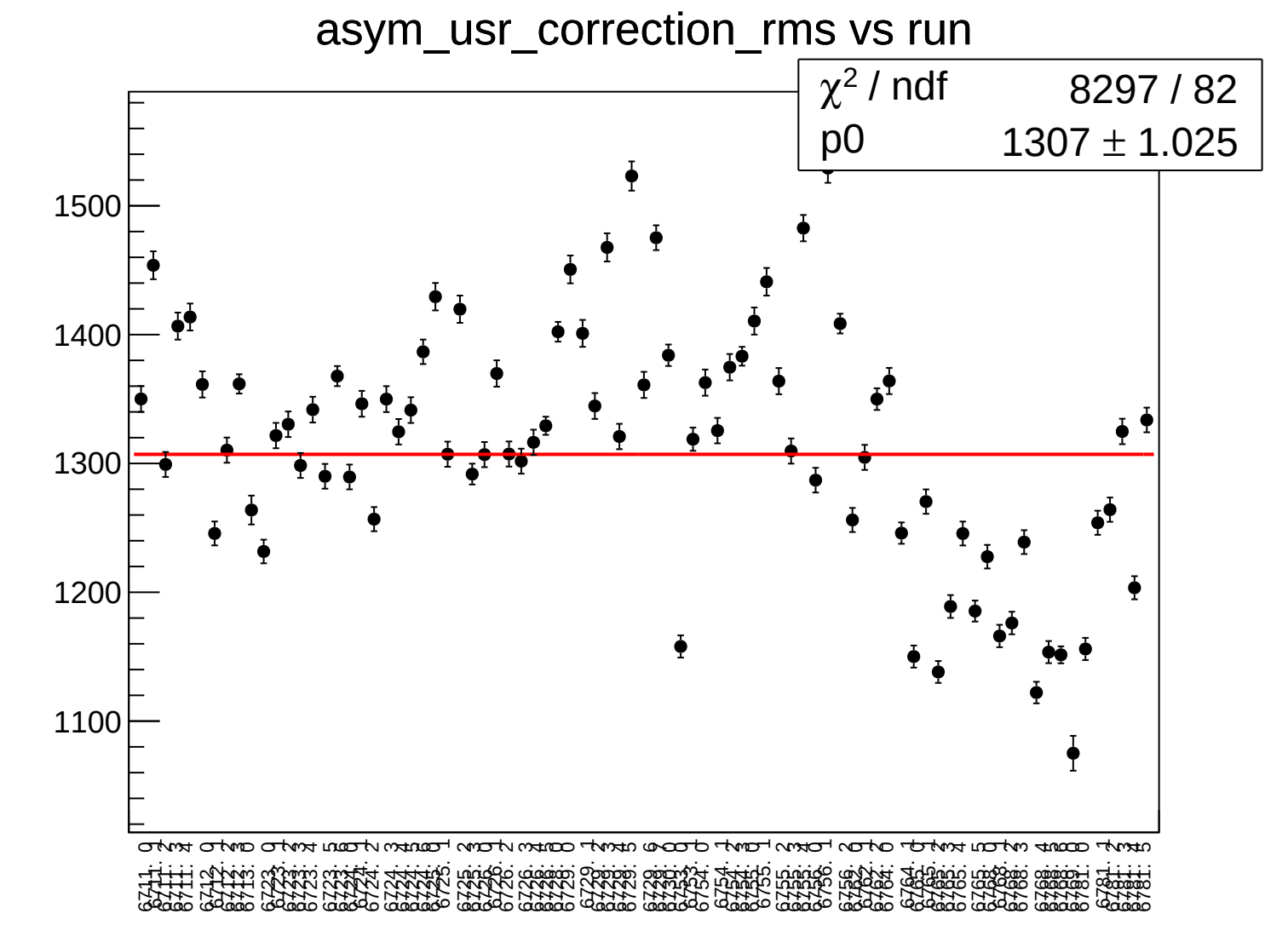

pull1D
Entries 83
Mean −0.00492
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

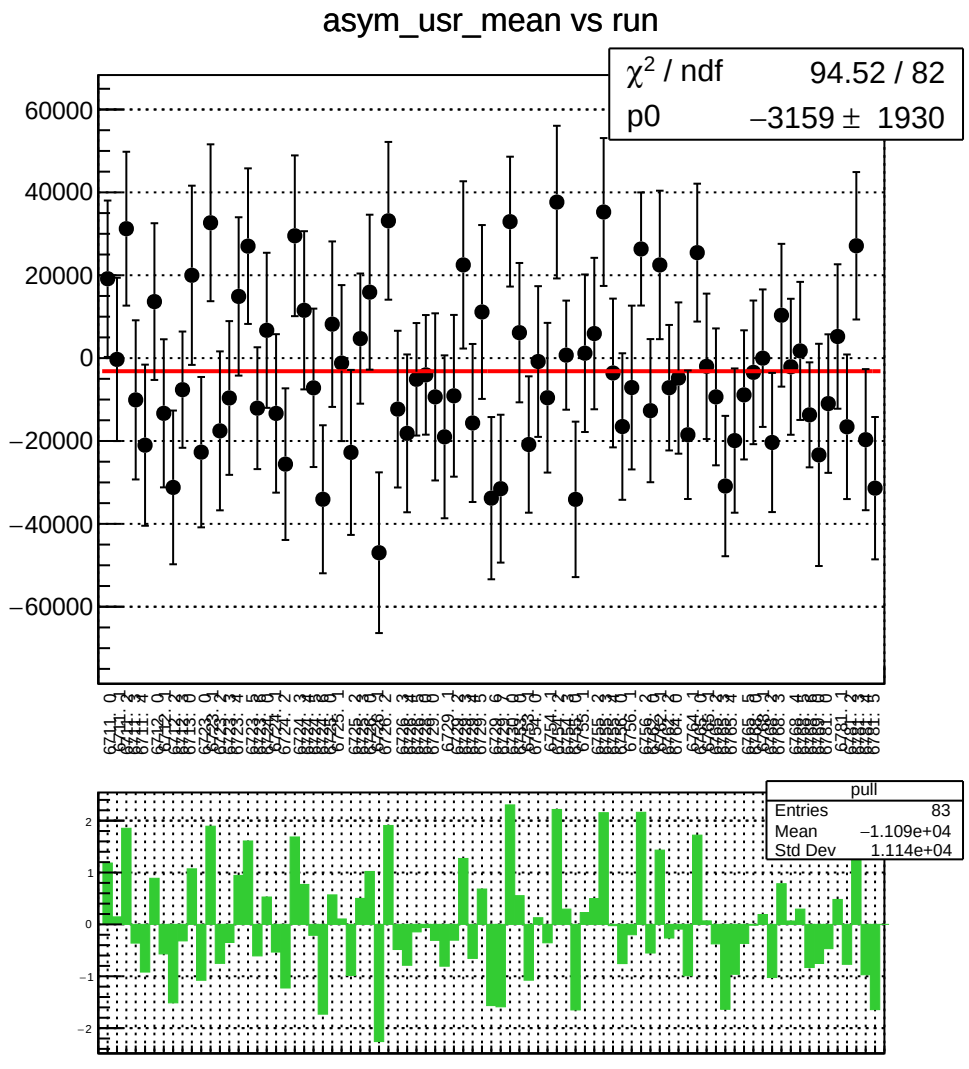
dit_asym_usr_rms vs run

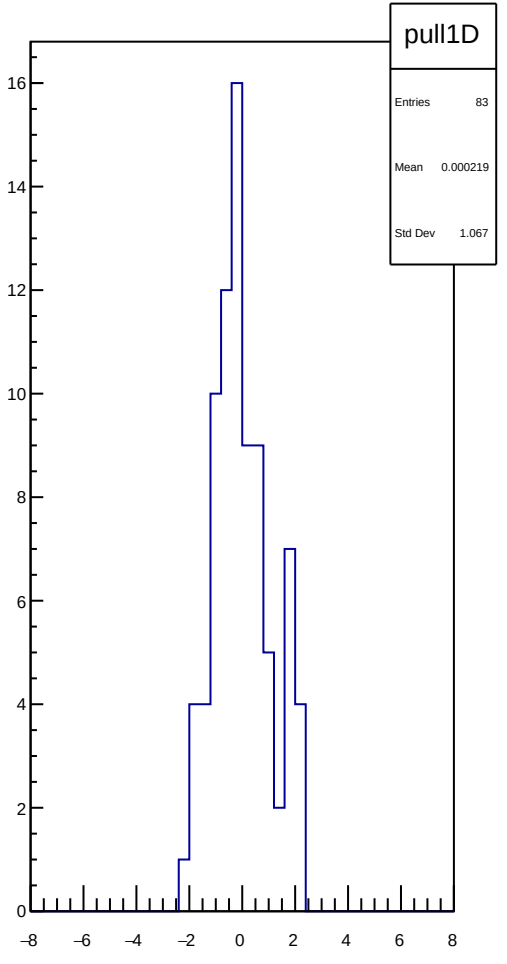


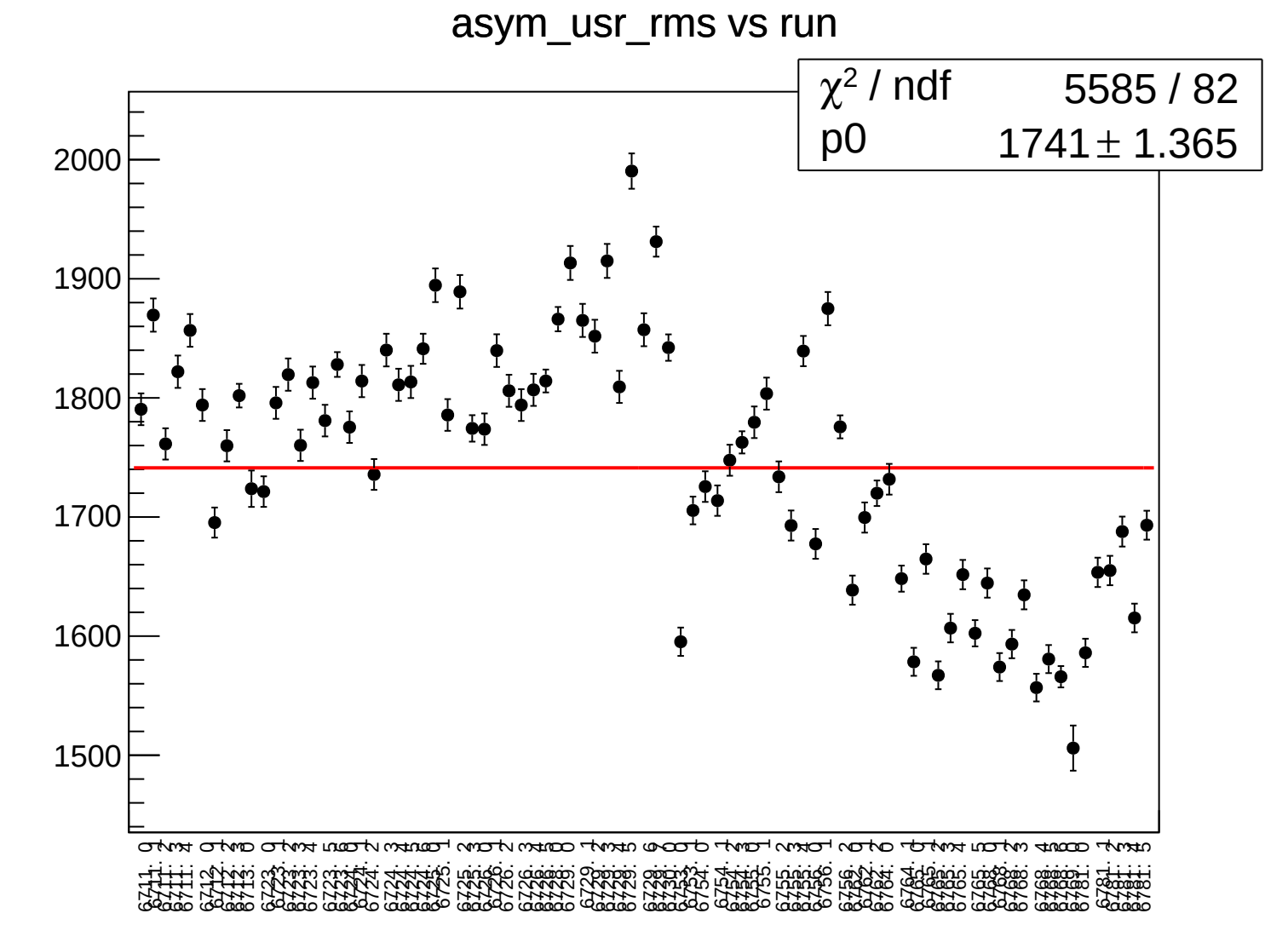

asym_usr_correction_mean vs run
χ² / ndf 84.54 / 82
p0 −496.1± 1450
40000
20000
0
−20000
−40000
pull
Entries 83
Mean −265
Std Dev 304.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

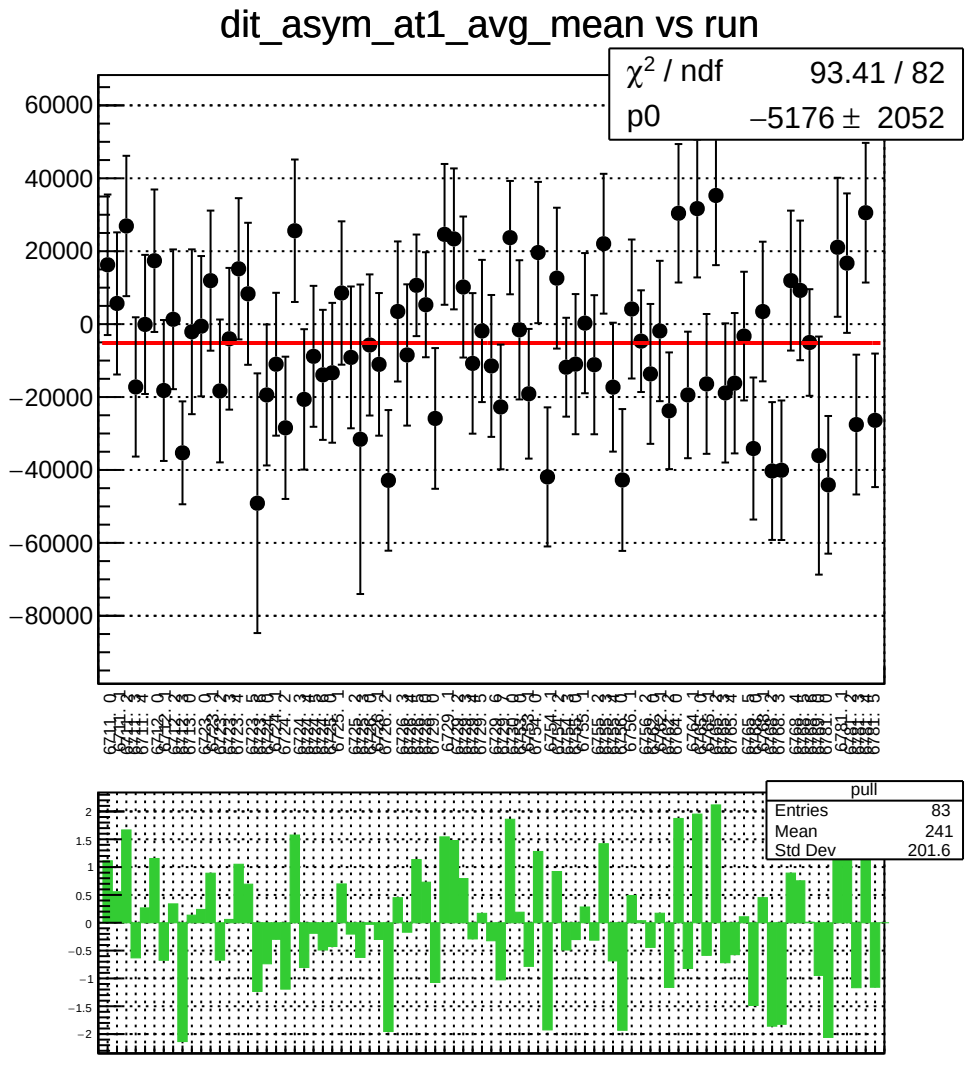

pull1D
Entries 83
Mean −0.0107
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

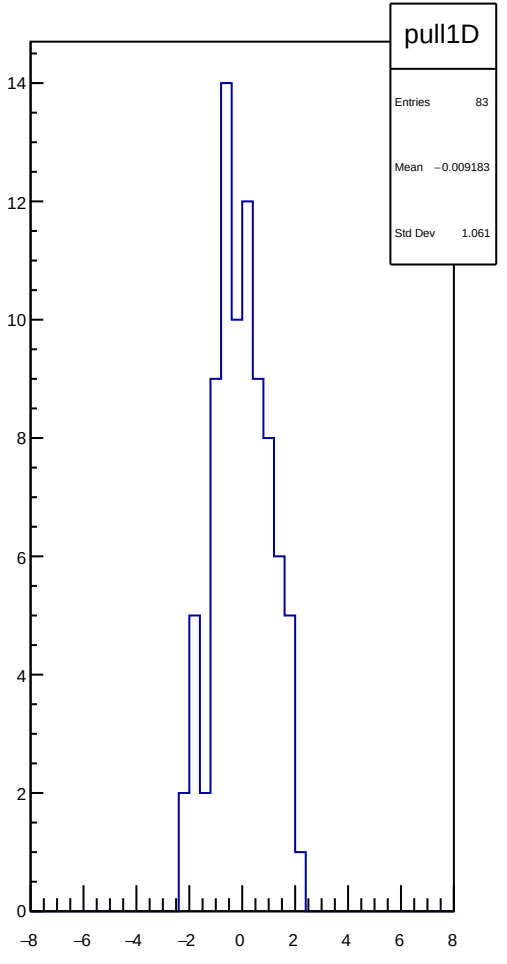

asym_usr_correction_rms vs run
χ² / ndf 8297 / 82
p0 1307 ± 1.025
1500
1400
1300
1200
1100

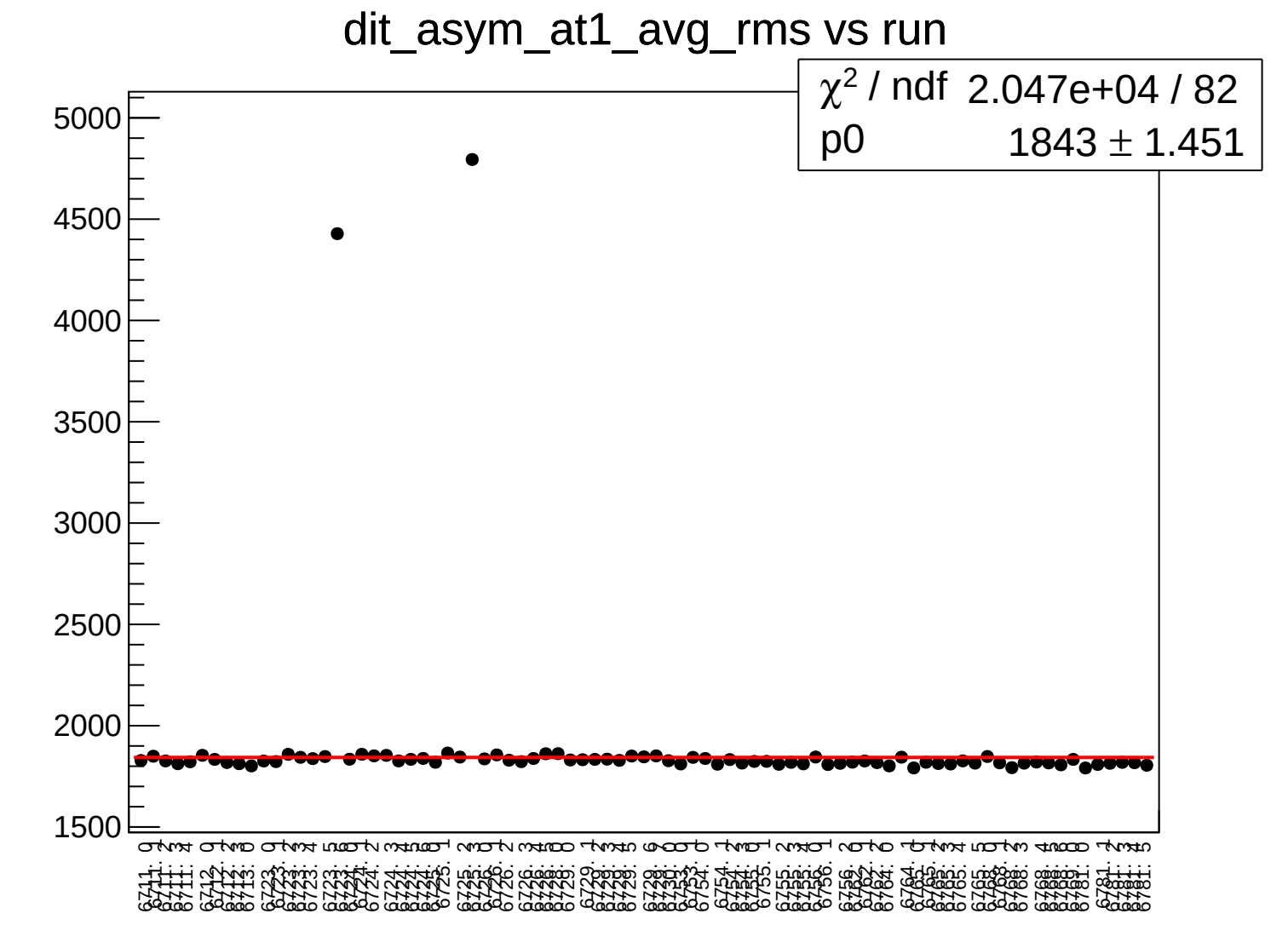

asym_usr_mean vs run
χ² / ndf 94.52 / 82
p0 −3159 ± 1930
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean −1.109e+04
Std Dev 1.114e+04
2
1
0
−1
−2

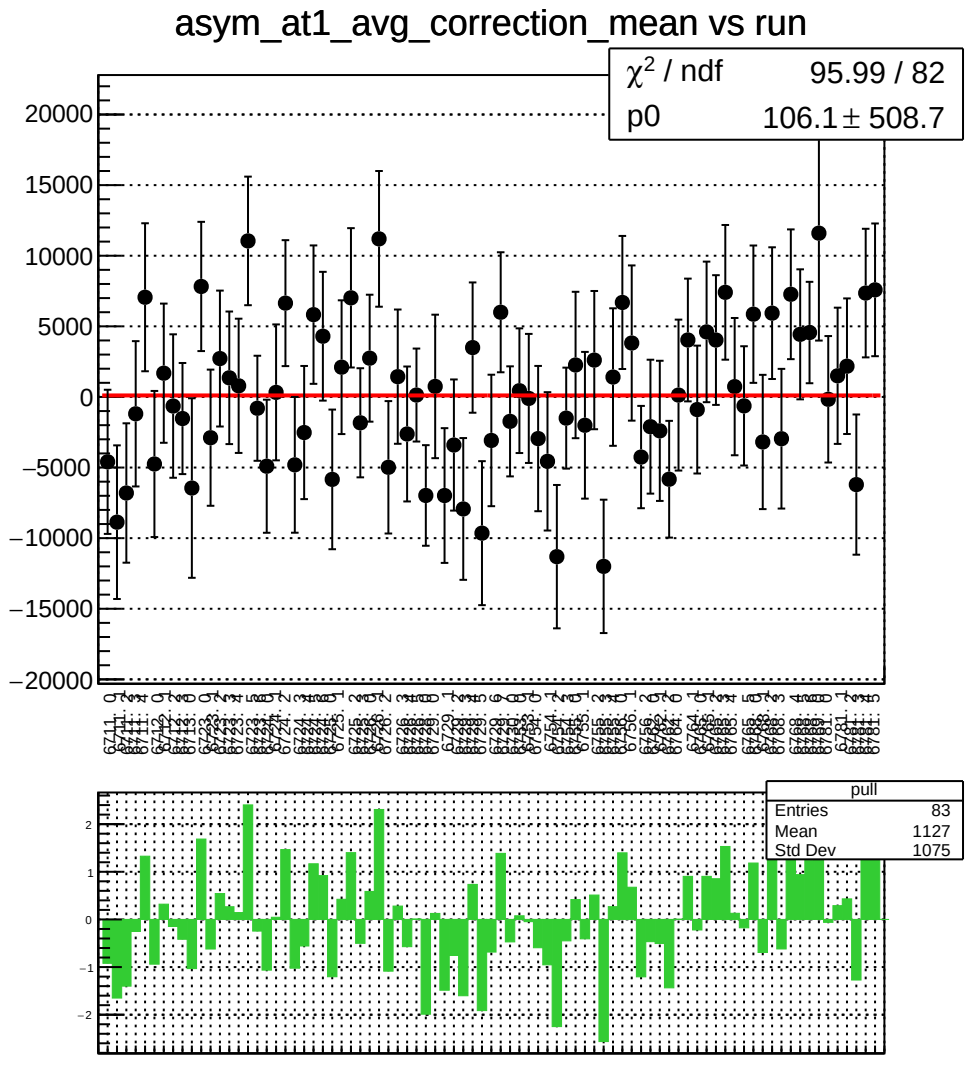

pull1D
Entries 83
Mean 0.000219
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

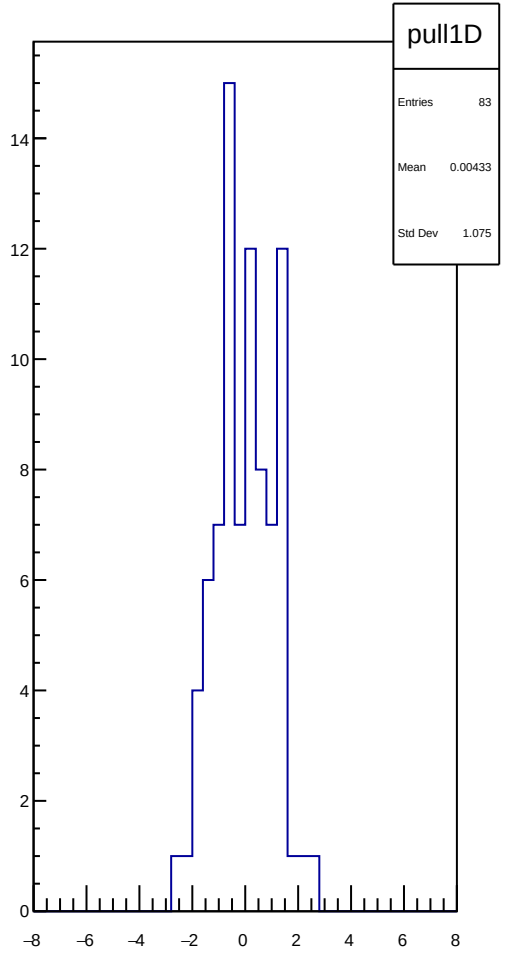

asym_usr_rms vs run
χ² / ndf 5585 / 82
p0 1741 ± 1.365
2000
1900
1800
1700
1600
1500

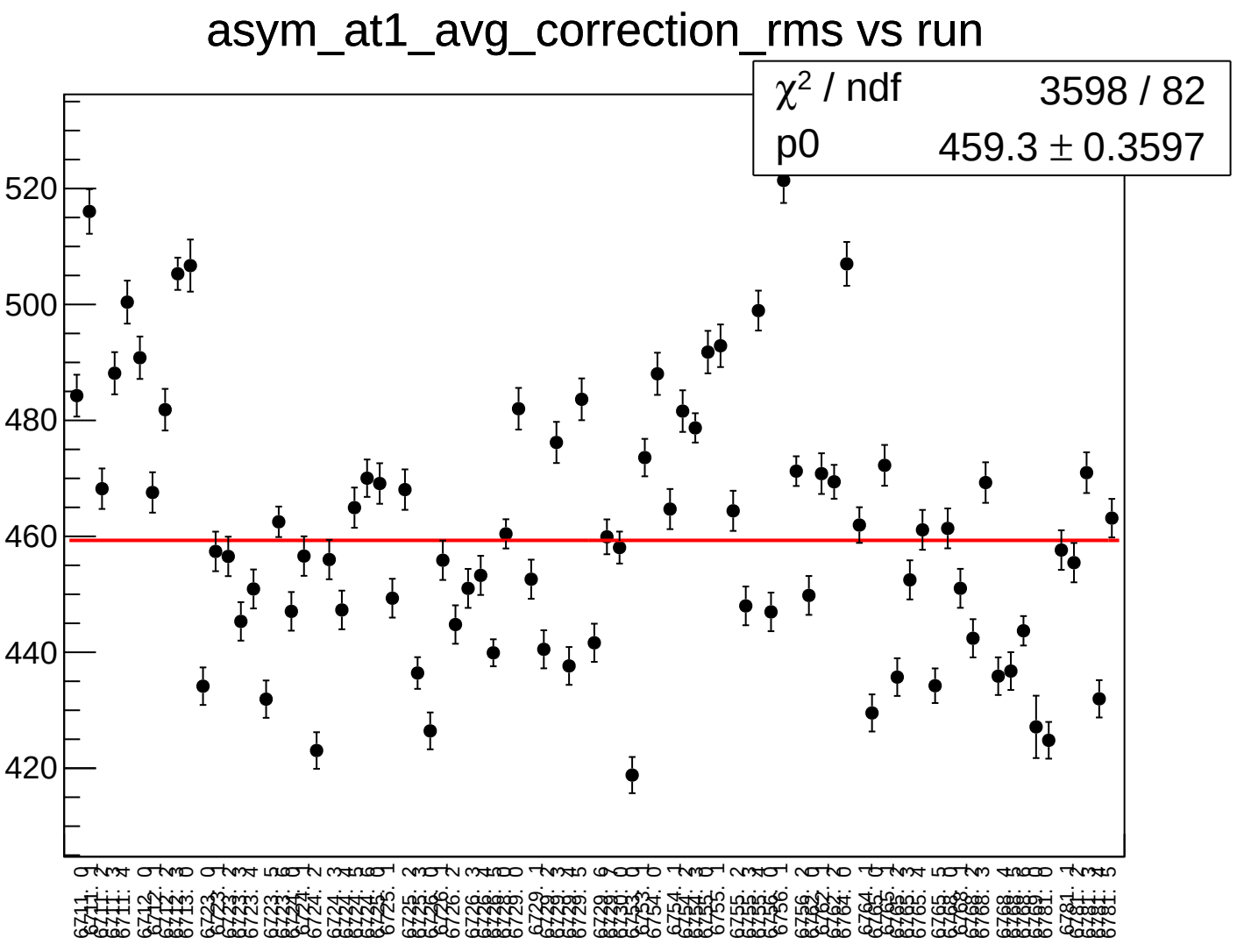

dit_asym_at1_avg_mean vs run
χ² / ndf 93.41 / 82
p0 −5176 ± 2052
pull
Entries 83
Mean 241
Std Dev 201.6

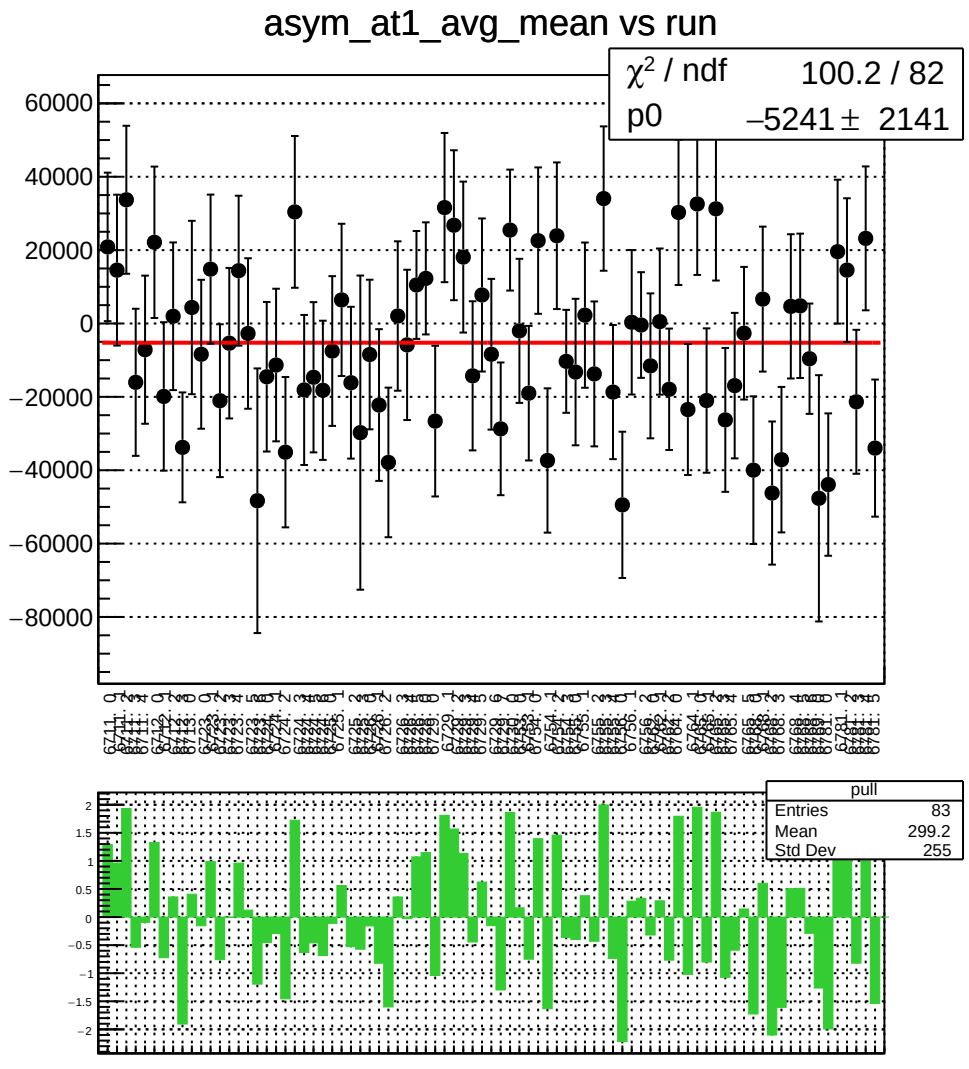

pull1D
Entries 83
Mean −0.009183
Std Dev 1.061

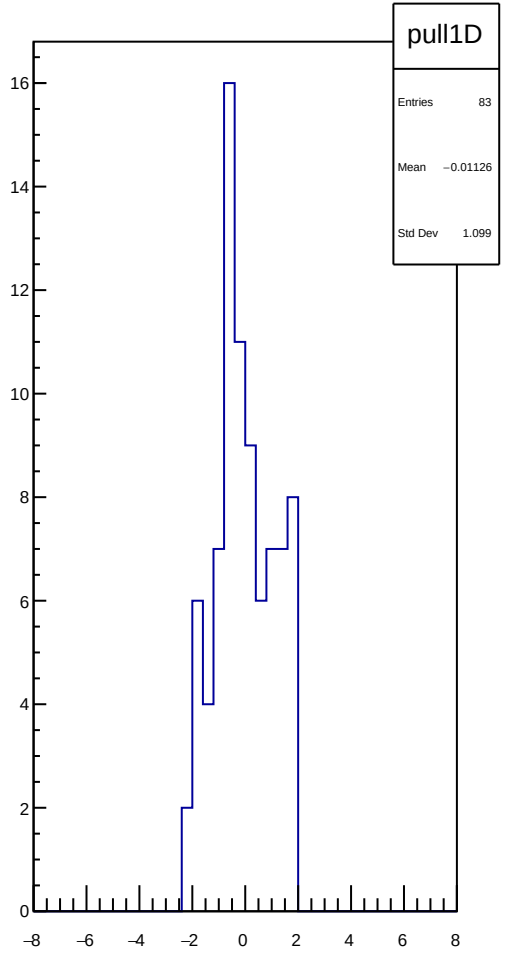

dit_asym_at1_avg_rms vs run
χ^2 / ndf 2.047e+04 / 82
p0 1843 ± 1.451
5000
4500
4000
3500
3000
2500
2000
1500

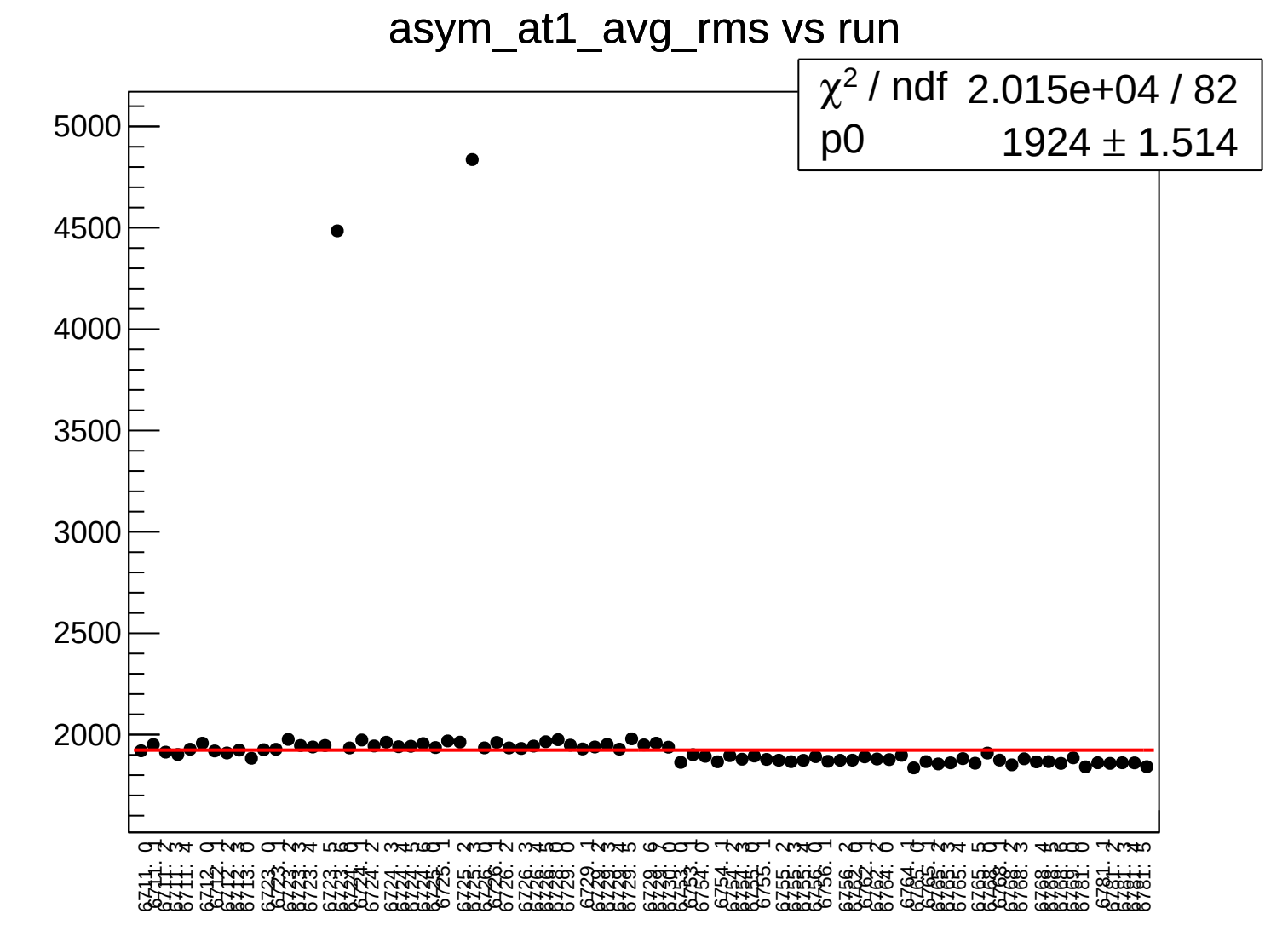

asym_at1_avg_correction_mean vs run
χ² / ndf 95.99 / 82
p0 106.1 ± 508.7
pull
Entries 83
Mean 1127
Std Dev 1075

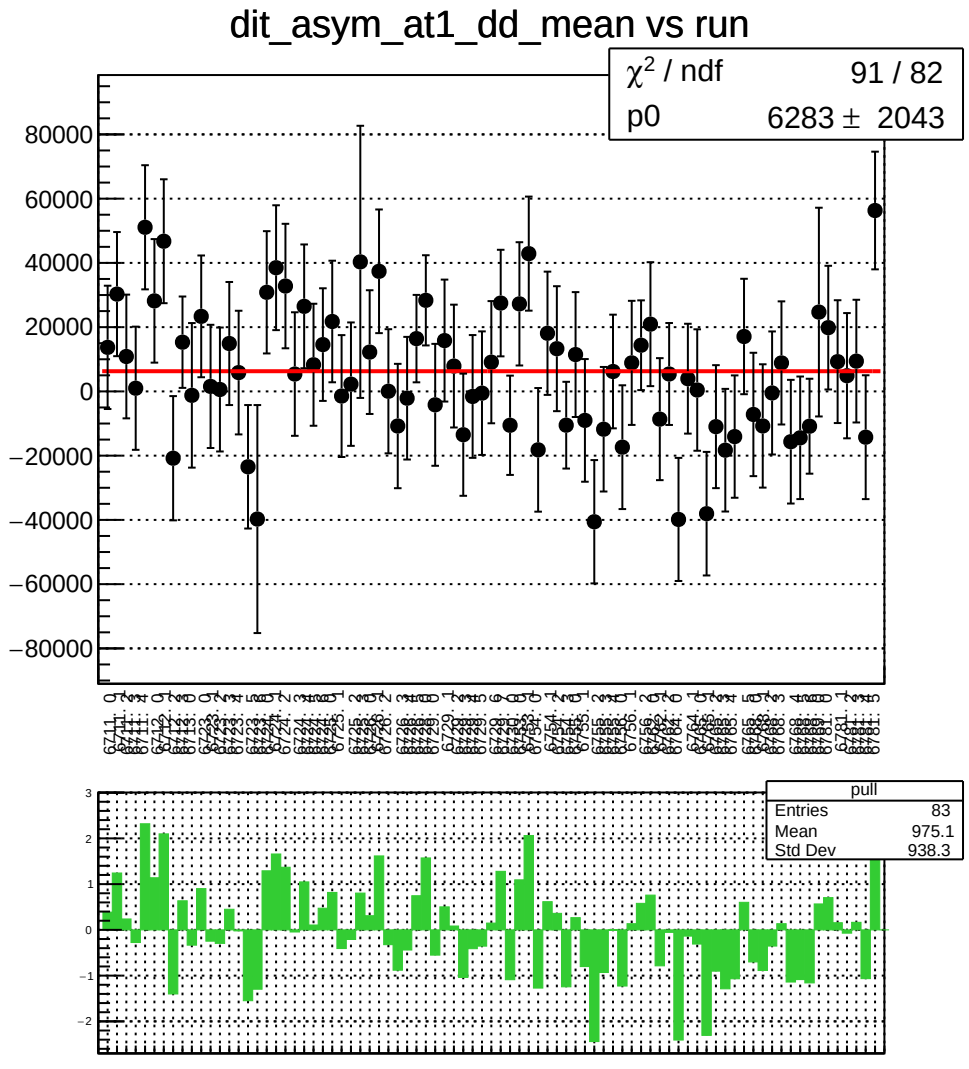

pull1D
Entries 83
Mean 0.00433
Std Dev 1.075

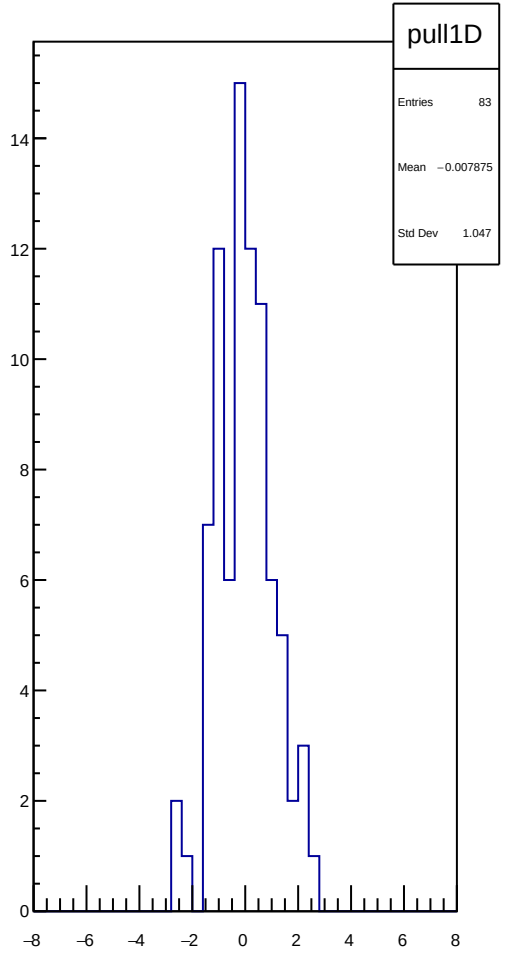

asym_at1_avg_correction_rms vs run
χ² / ndf 3598 / 82
p0 459.3 ± 0.3597
520
500
480
460
440
420

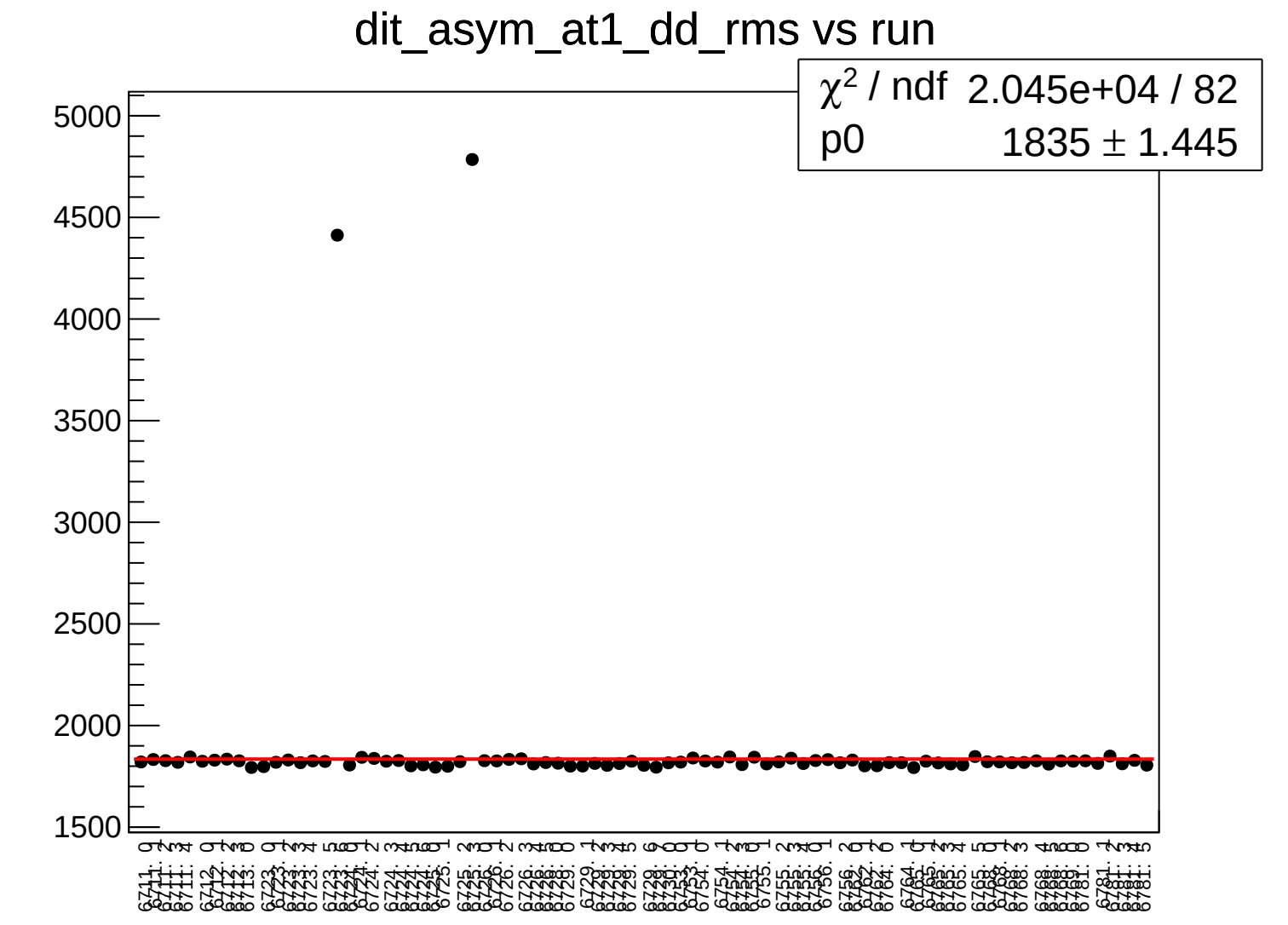

asym_at1_avg_mean vs run
χ² / ndf 100.2 / 82
p0 −5241 ± 2141
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 83
Mean 299.2
Std Dev 255
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

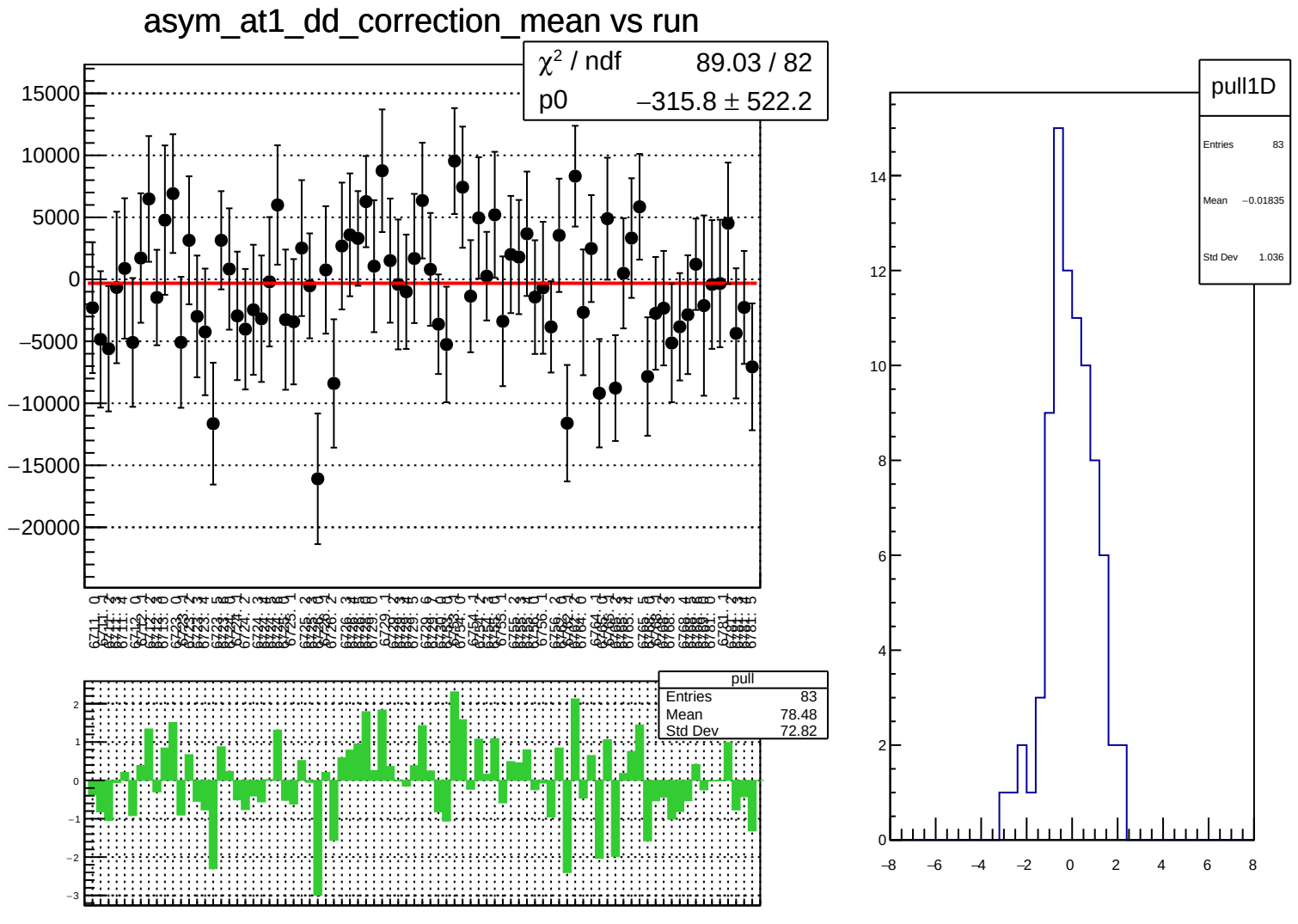

pull1D
Entries 83
Mean −0.01126
Std Dev 1.099
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

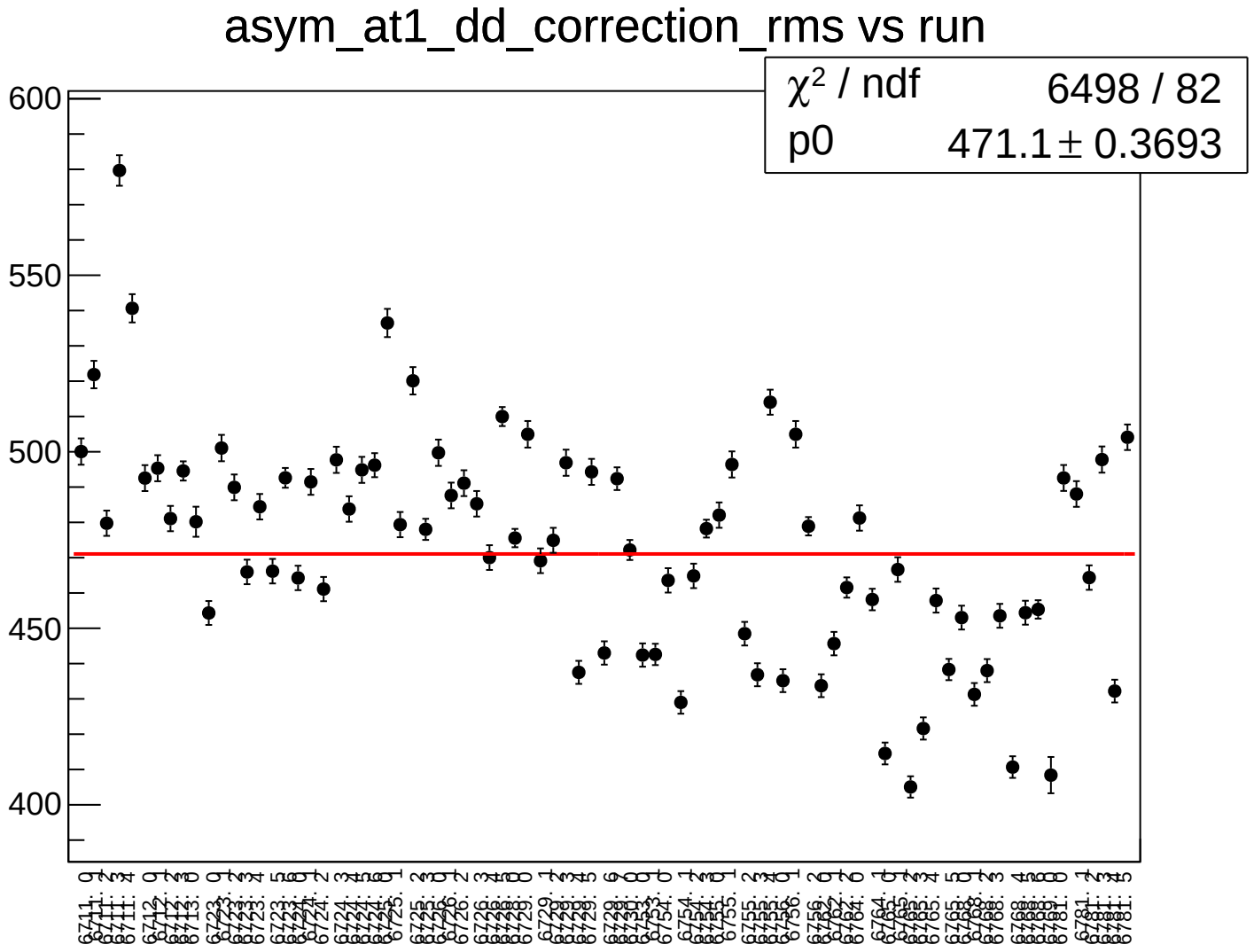

asym_at1_avg_rms vs run
χ^2 / ndf 2.015e+04 / 82
p0 1924 ± 1.514
5000
4500
4000
3500
3000
2500
2000

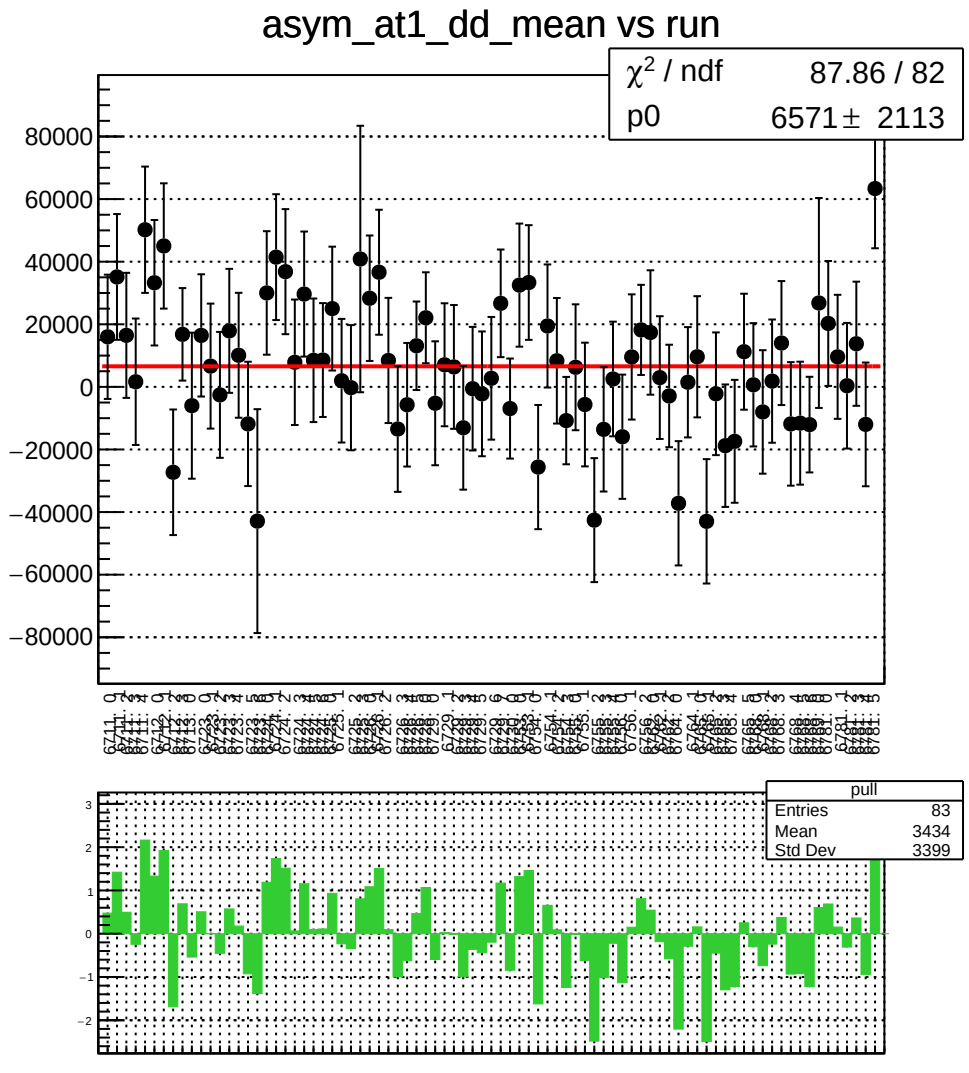

dit_asym_at1_dd_mean vs run
χ² / ndf 91 / 82
p0 6283 ± 2043
pull
Entries 83
Mean 975.1
Std Dev 938.3

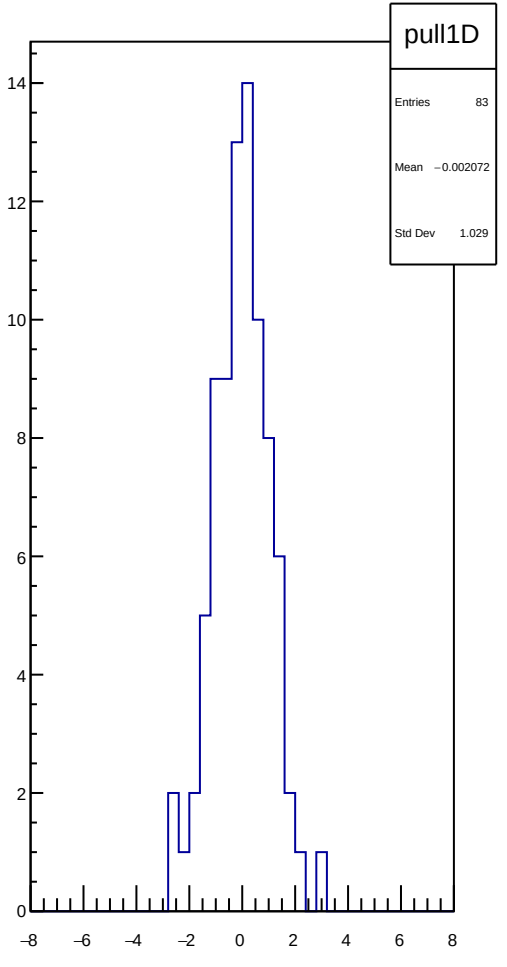

pull1D
Entries 83
Mean −0.007875
Std Dev 1.047

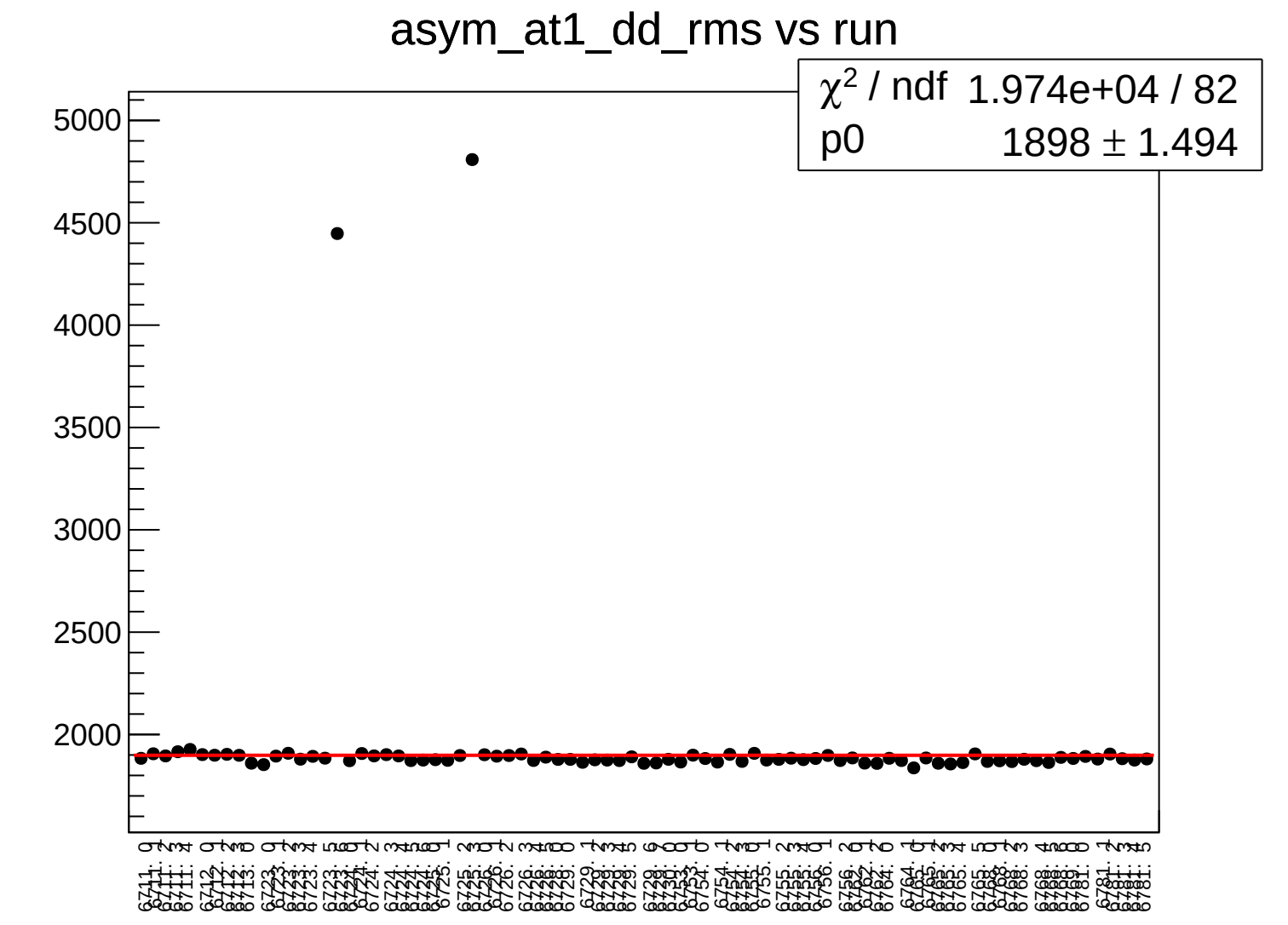

dit_asym_at1_dd_rms vs run
χ² / ndf 2.045e+04 / 82
p0 1835 ± 1.445
5000
4500
4000
3500
3000
2500
2000
1500

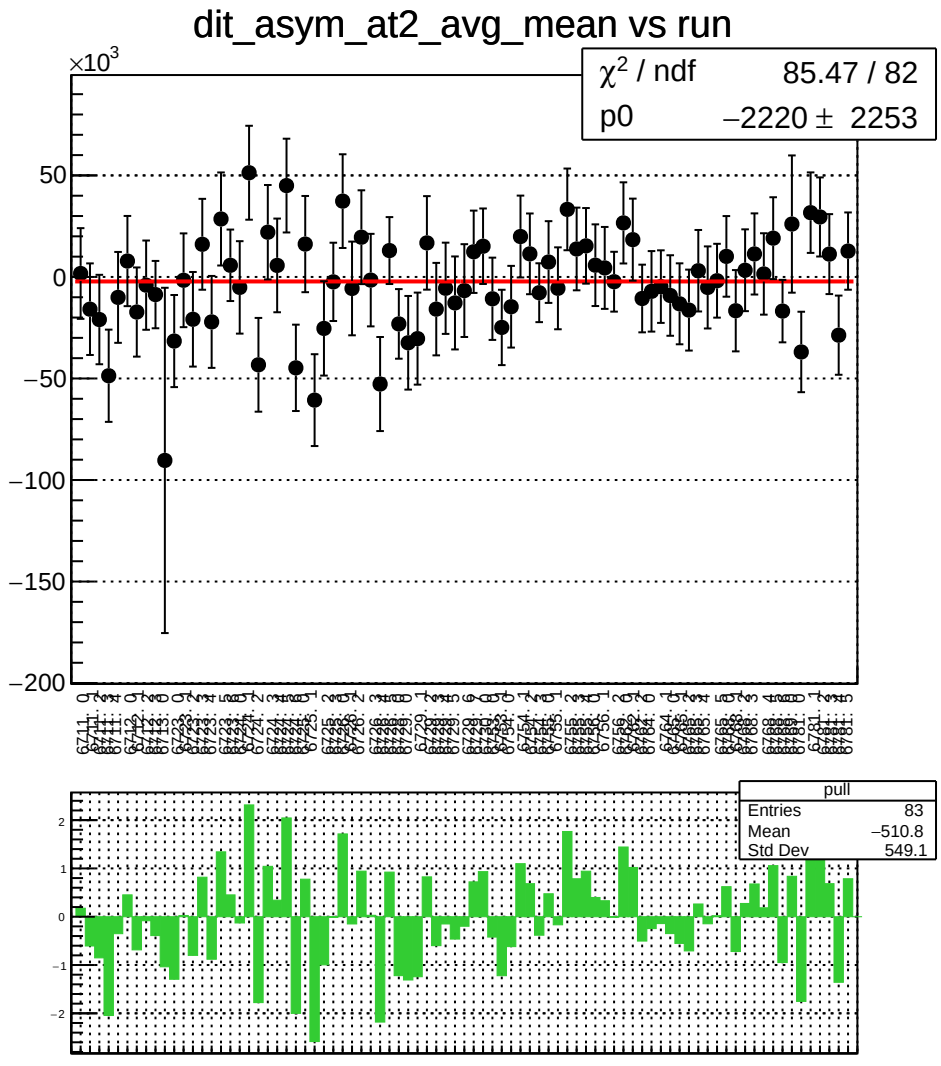

asym_at1_dd_correction_mean vs run
χ² / ndf 89.03 / 82
p0 −315.8 ± 522.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 83
Mean 78.48
Std Dev 72.82
2
1
0
−1
−2
−3
pull1D
Entries 83
Mean −0.01835
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

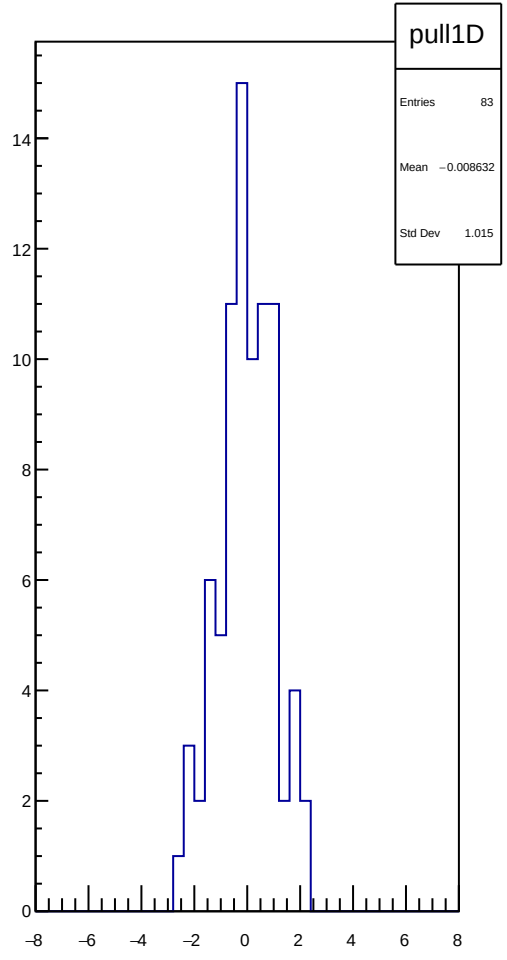

asym_at1_dd_correction_rms vs run
χ² / ndf 6498 / 82
p0 471.1 ± 0.3693
600
550
500
450
400

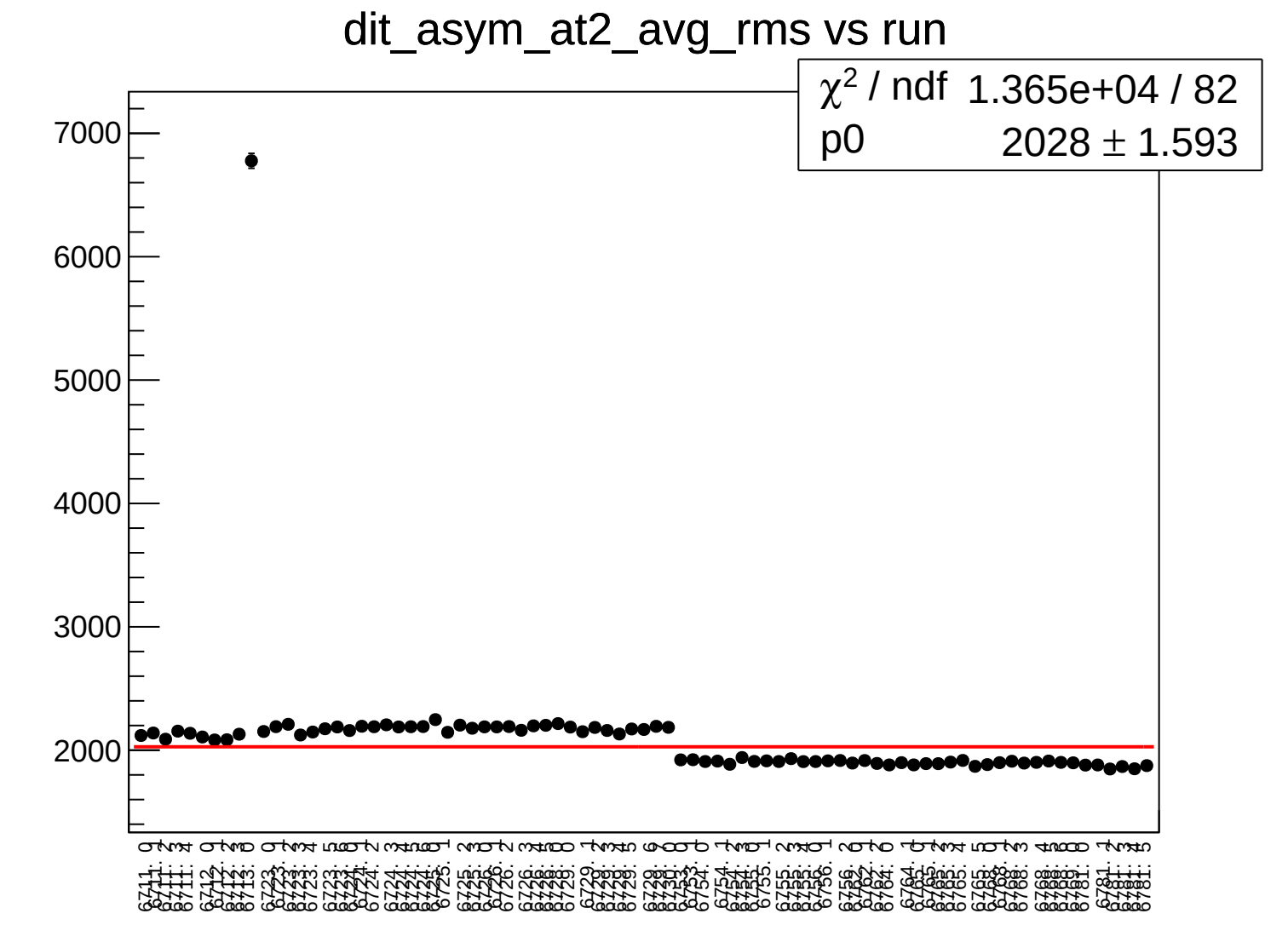

asym_at1_dd_mean vs run
χ² / ndf 87.86 / 82
p0 6571 ± 2113
pull
Entries 83
Mean 3434
Std Dev 3399

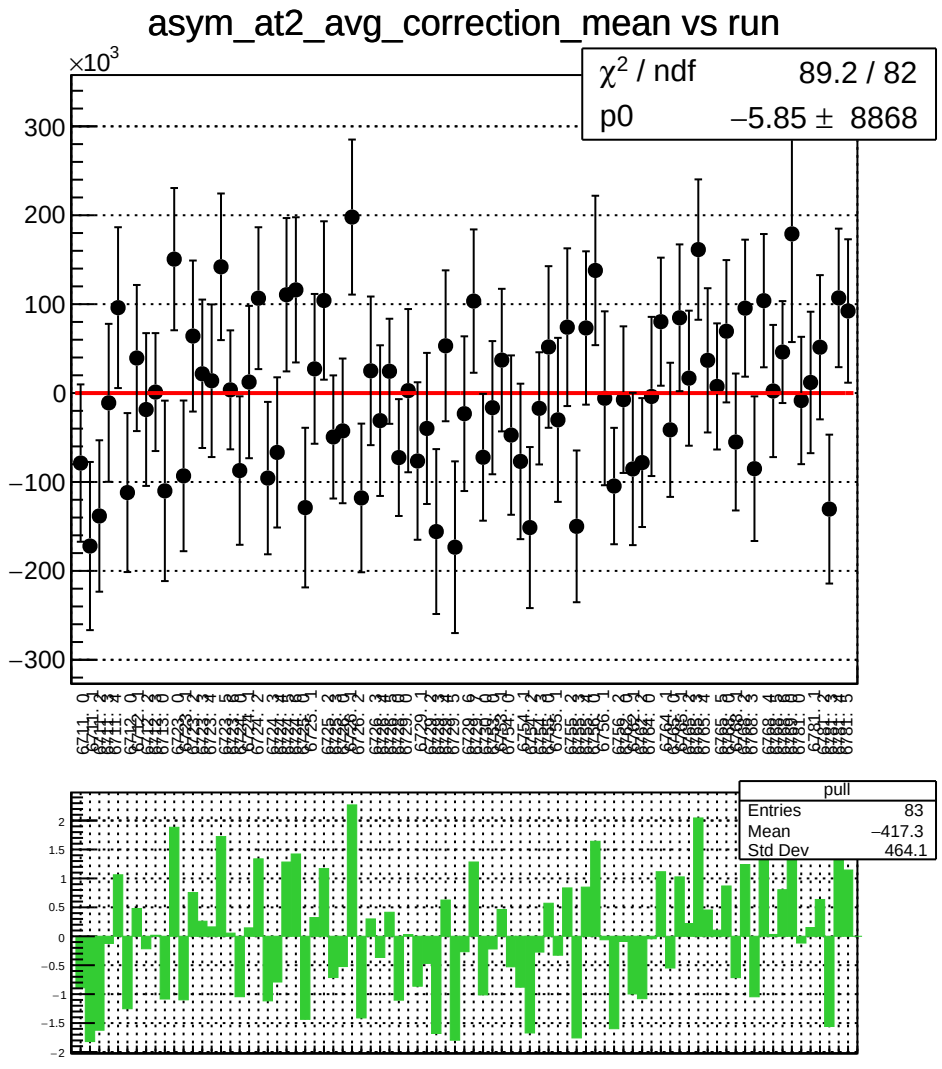

pull1D
Entries 83
Mean −0.002072
Std Dev 1.029

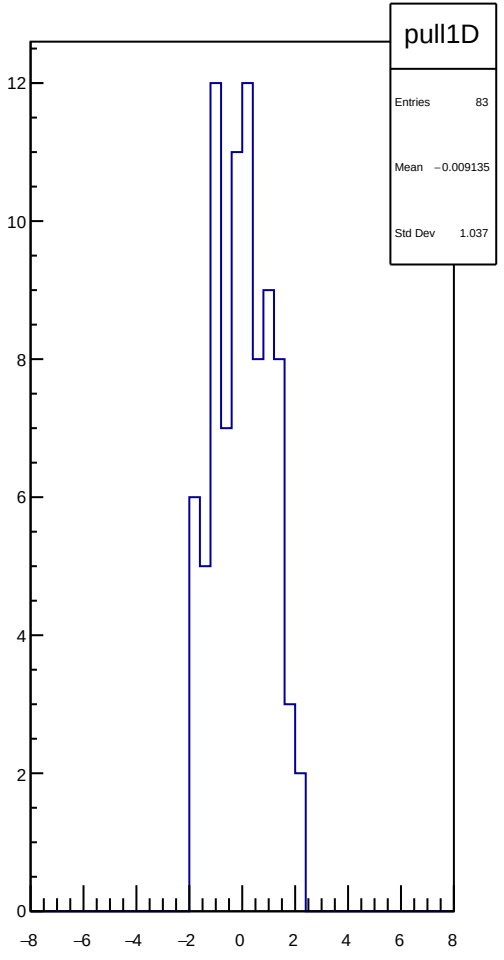

asym_at1_dd_rms vs run
χ^2 / ndf 1.974e+04 / 82
p0 1898 ± 1.494
5000
4500
4000
3500
3000
2500
2000

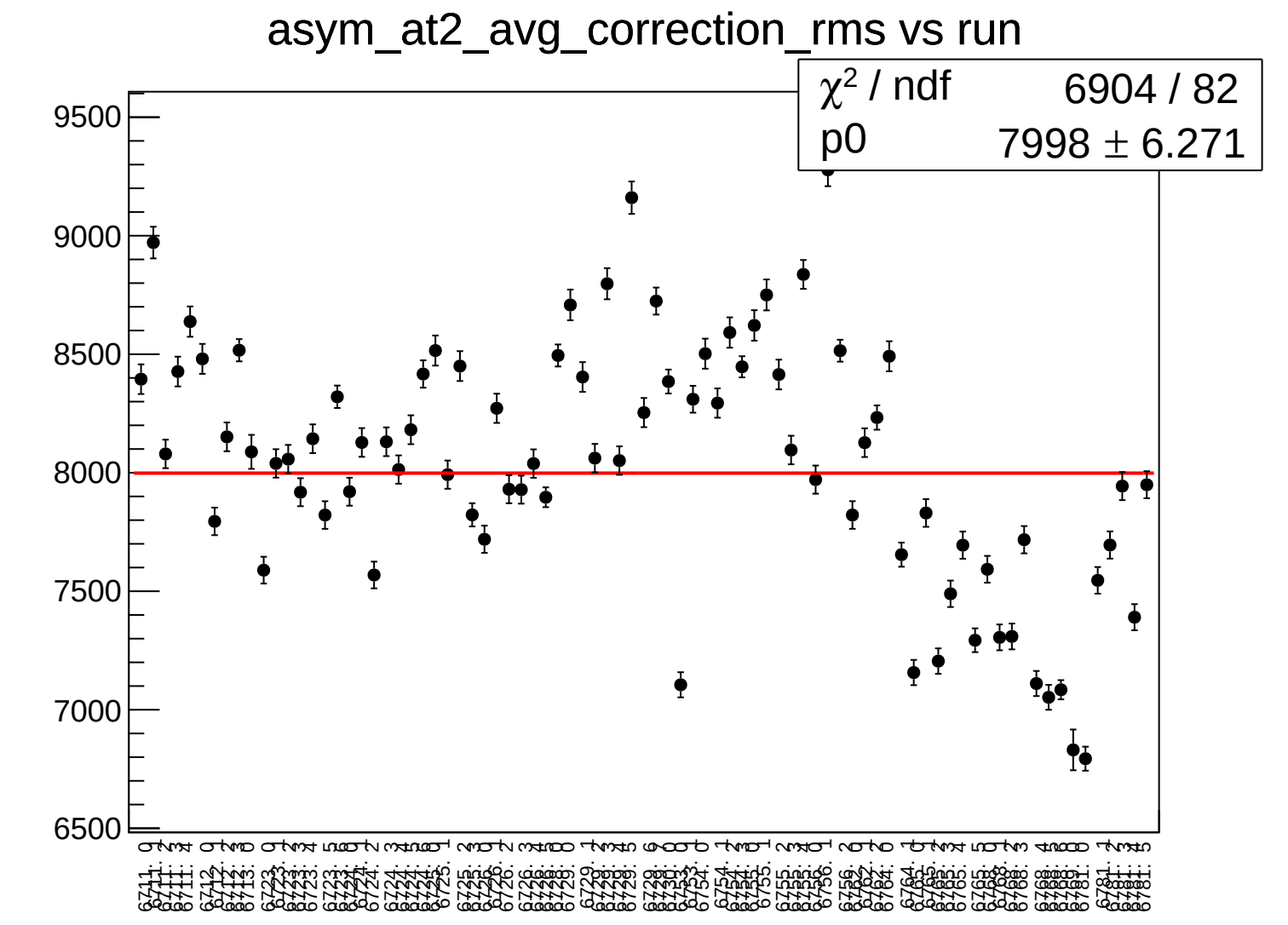

dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 85.47 / 82
p0 −2220 ± 2253
50
0
−50
−100
−150
−200
pull
Entries 83
Mean −510.8
Std Dev 549.1
2
1
0
−1
−2

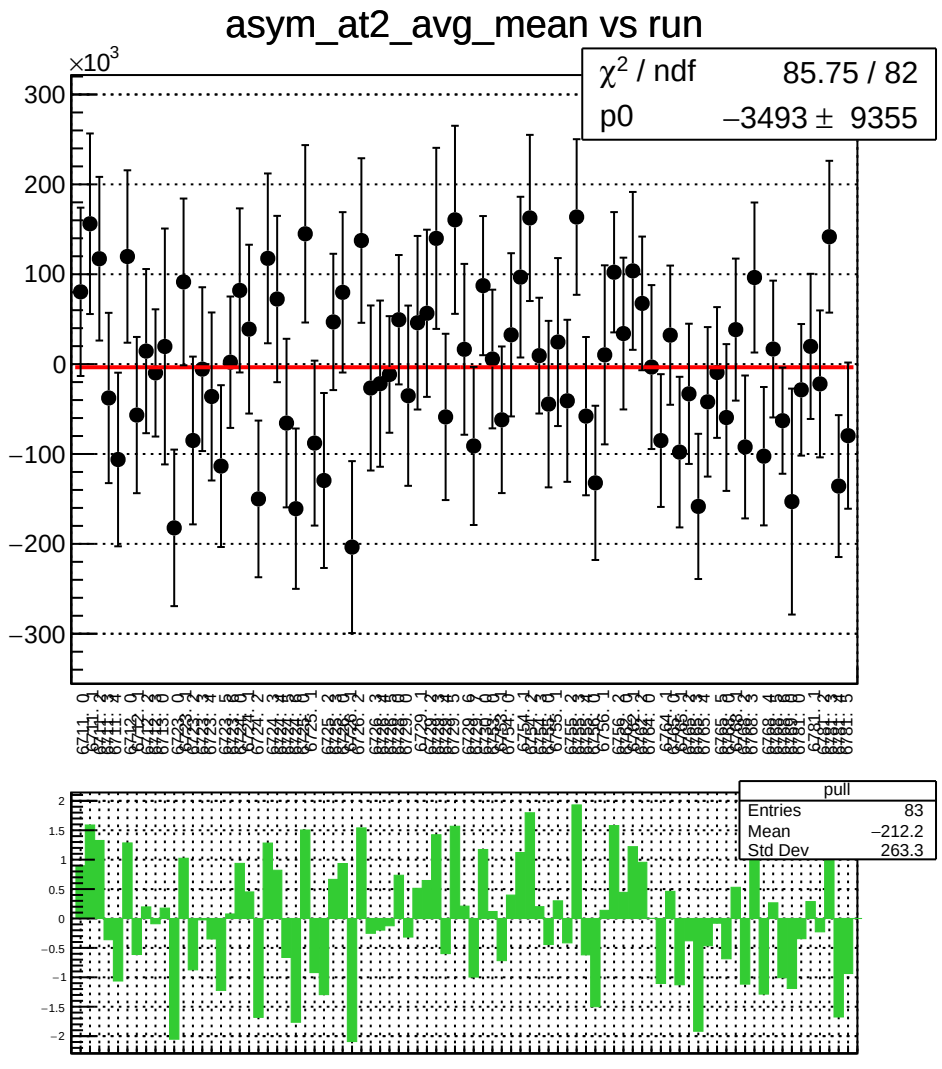

pull1D
Entries 83
Mean −0.008632
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

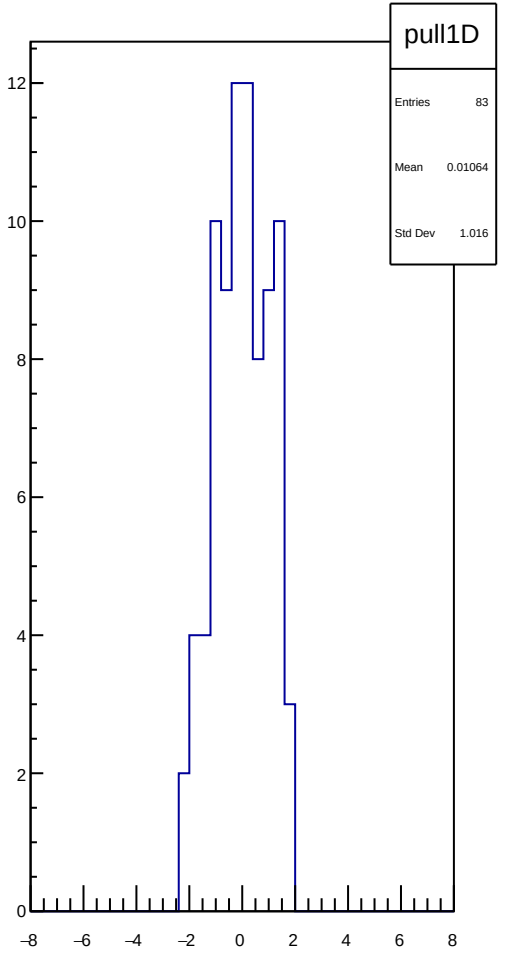

dit_asym_at2_avg_rms vs run
χ^2 / ndf 1.365e+04 / 82
p0 2028 ± 1.593
7000
6000
5000
4000
3000
2000

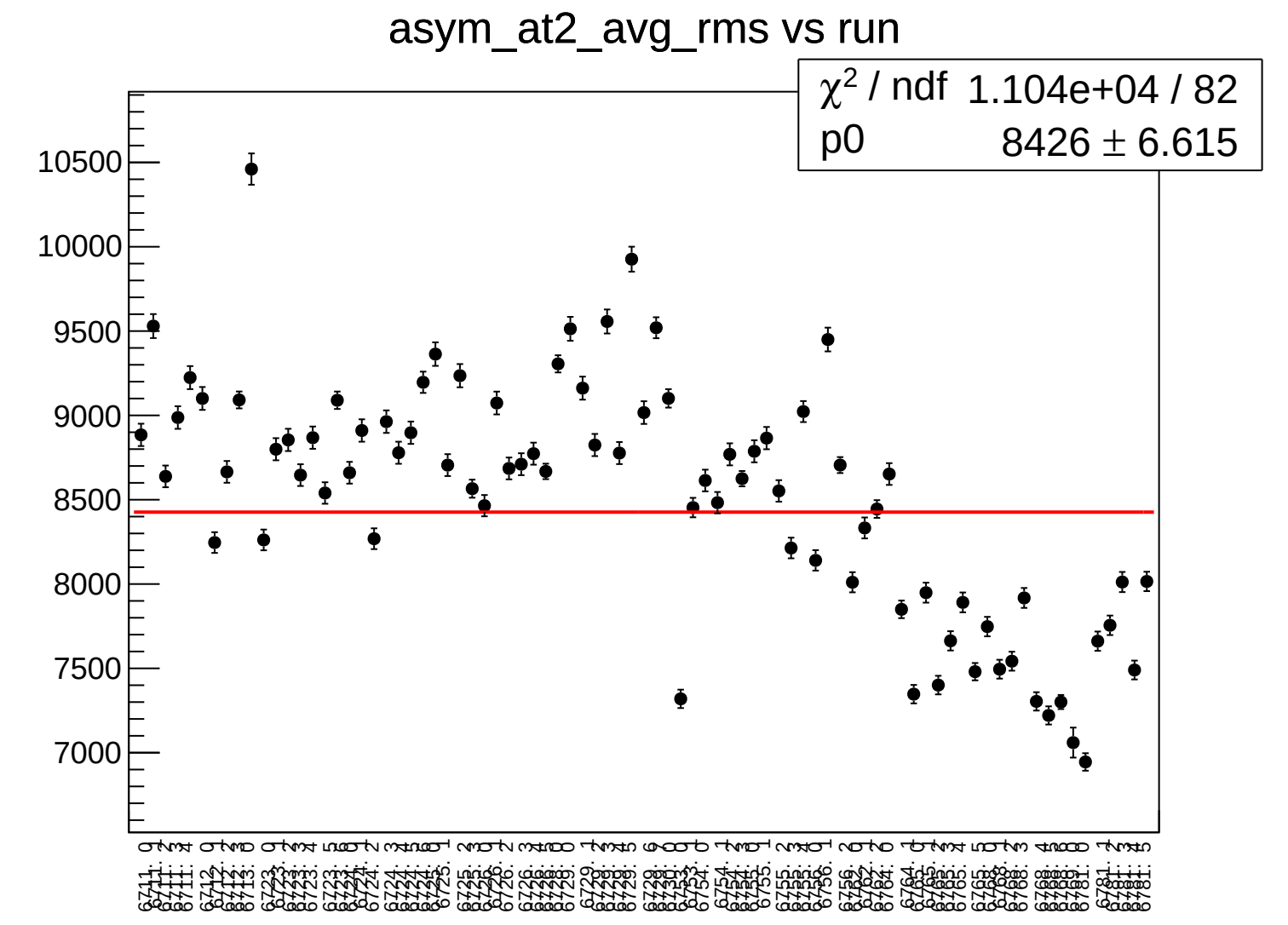

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 89.2 / 82
p0 −5.85 ± 8868
300
200
100
0
−100
−200
−300
pull
Entries 83
Mean −417.3
Std Dev 464.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

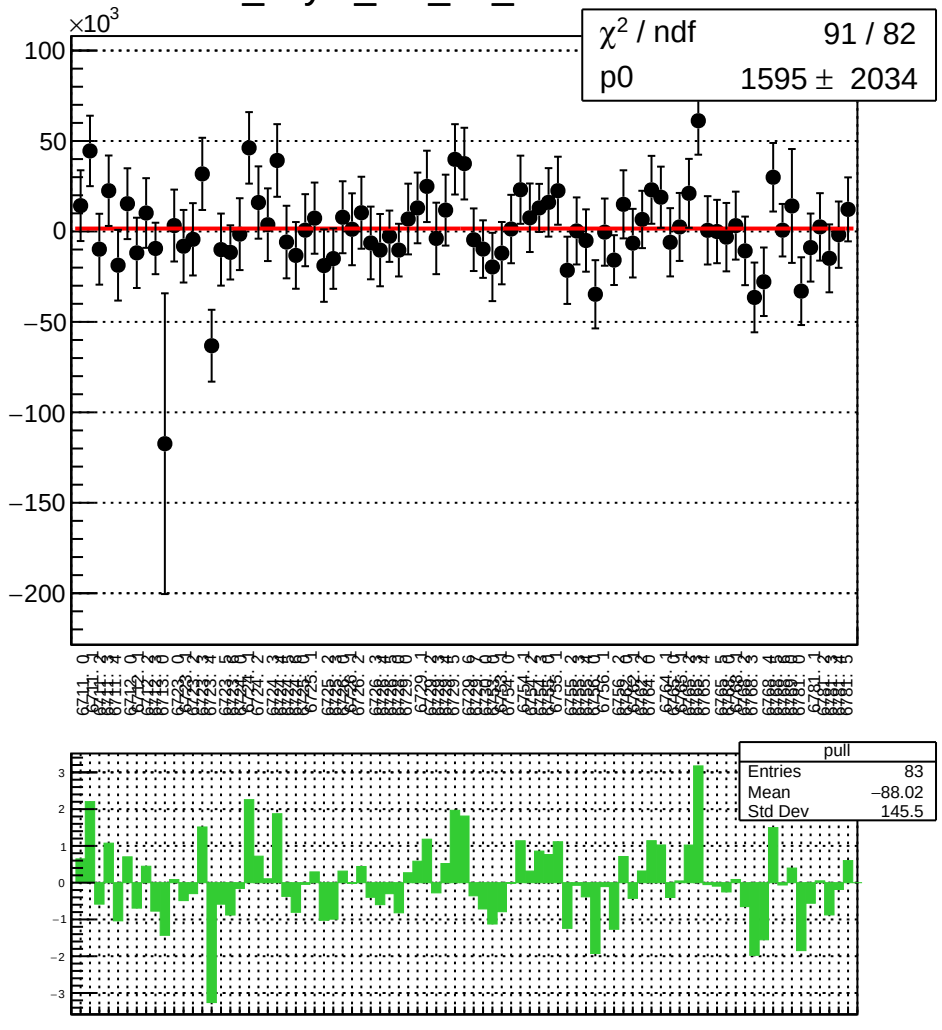

pull1D
Entries 83
Mean −0.009135
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

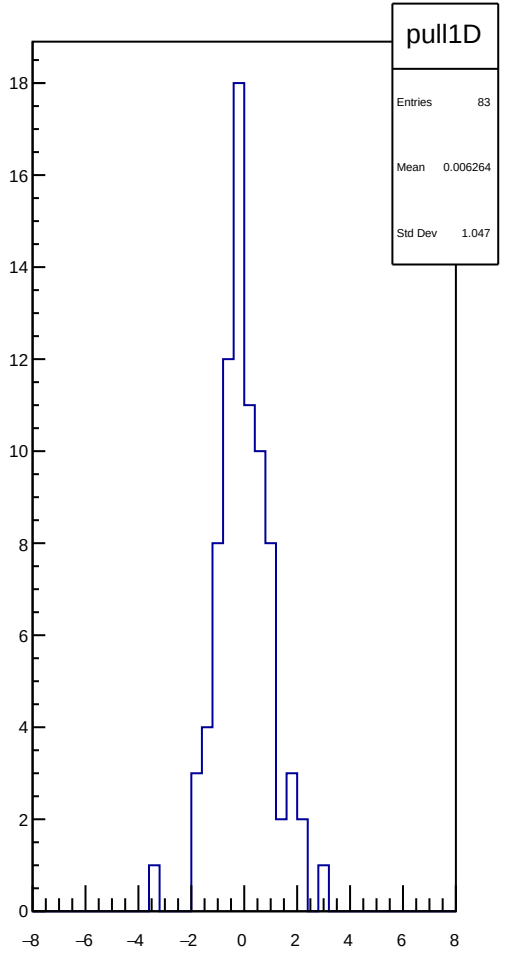

asym_at2_avg_correction_rms vs run
χ² / ndf 6904 / 82
p0 7998 ± 6.271
9500
9000
8500
8000
7500
7000
6500

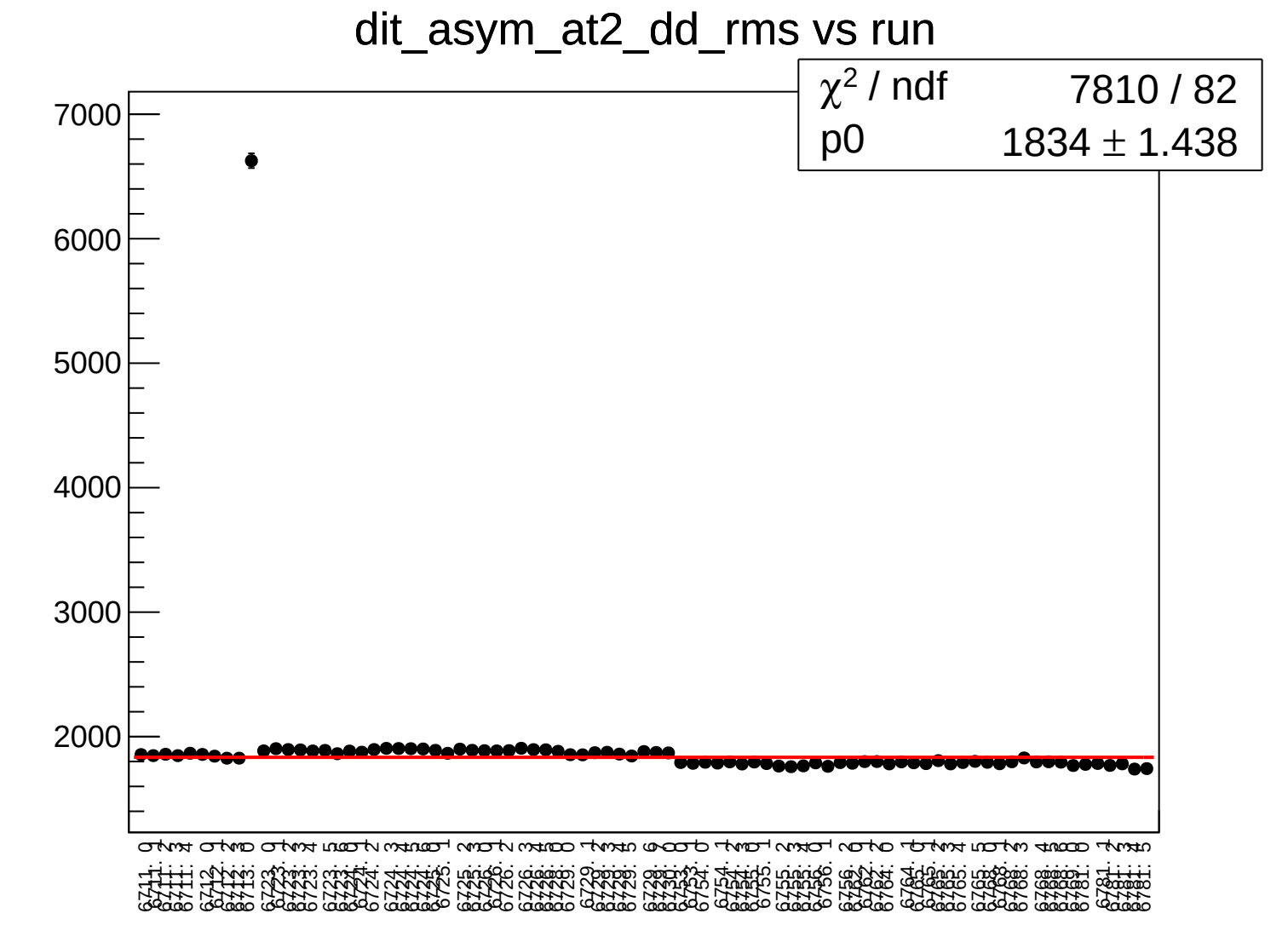

asym_at2_avg_mean vs run
×10^3
χ² / ndf 85.75 / 82
p0 −3493 ± 9355
pull
Entries 83
Mean −212.2
Std Dev 263.3

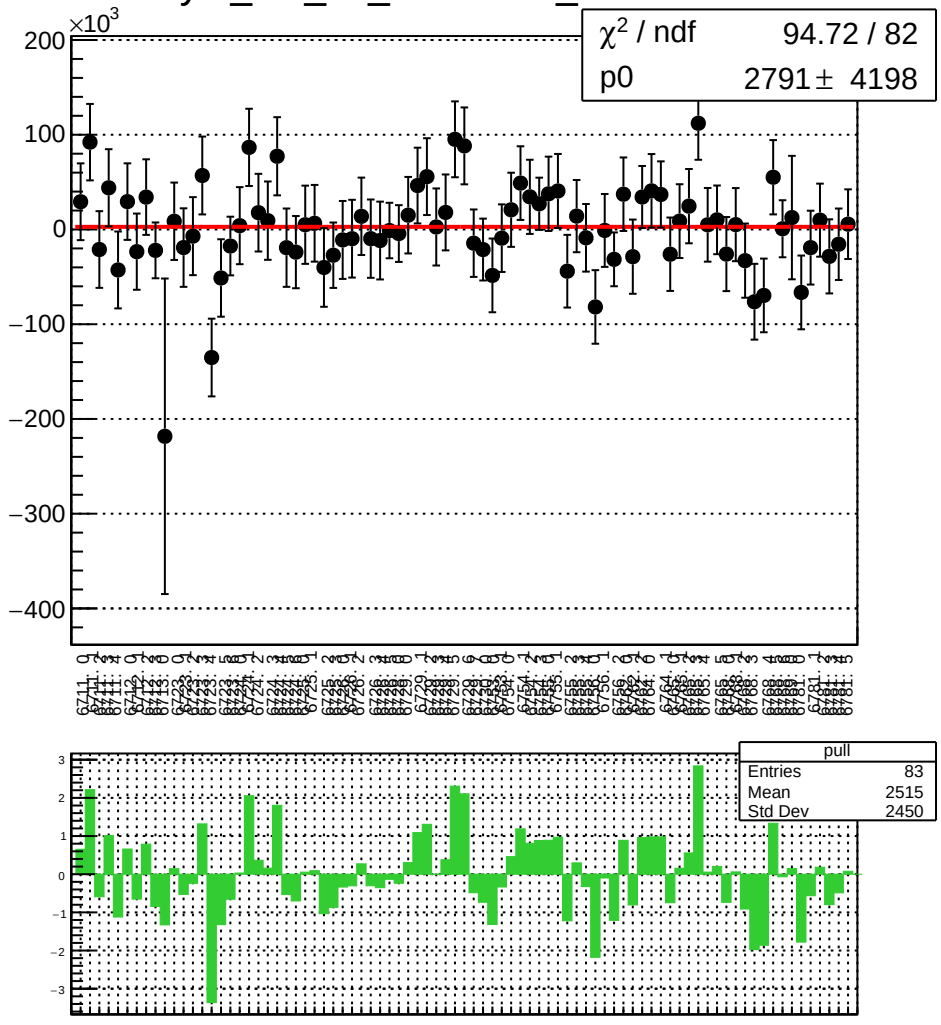

pull1D
Entries 83
Mean 0.01064
Std Dev 1.016

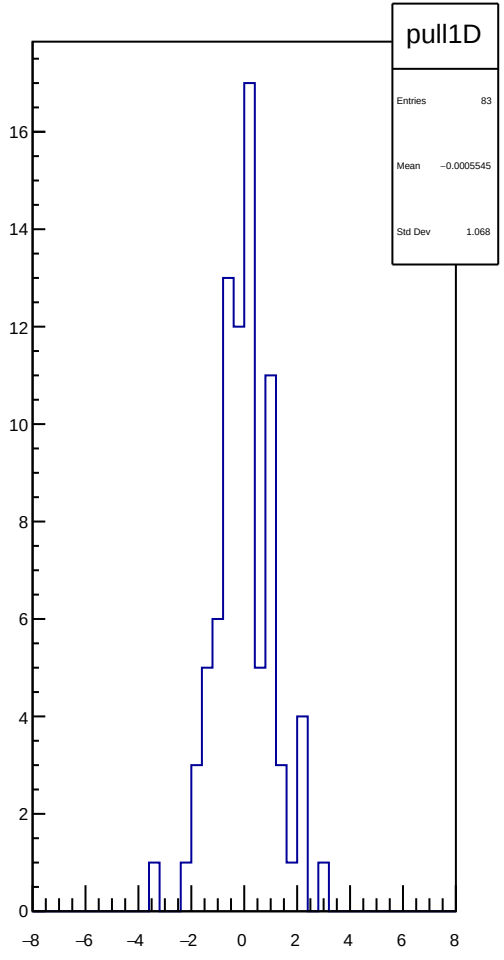

asym_at2_avg_rms vs run
χ² / ndf 1.104e+04 / 82
p0 8426 ± 6.615
10500
10000
9500
9000
8500
8000
7500
7000

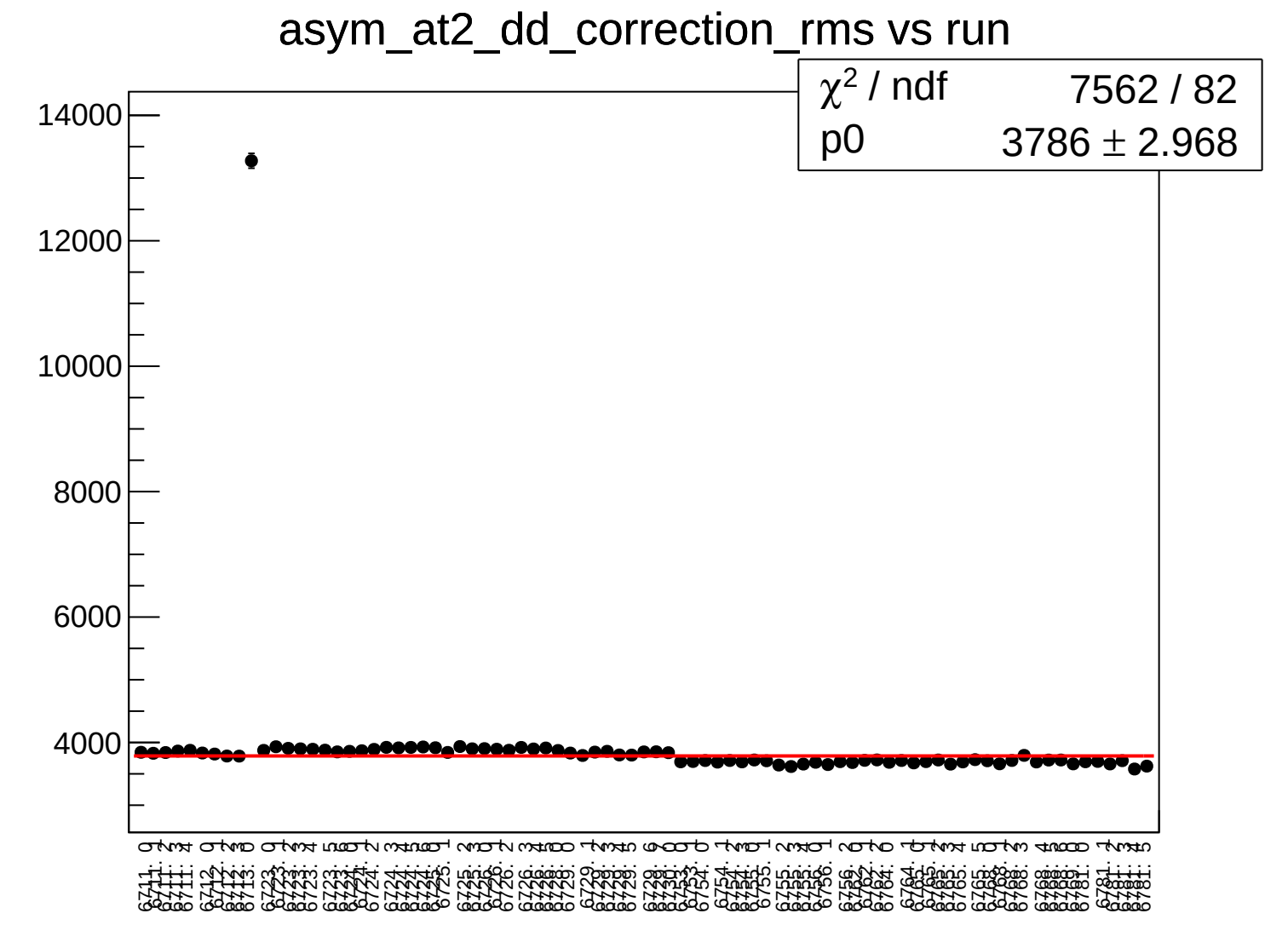

dit_asym_at2_dd_mean vs run
×10^3
χ² / ndf 91 / 82
p0 1595 ± 2034
pull
Entries 83
Mean −88.02
Std Dev 145.5

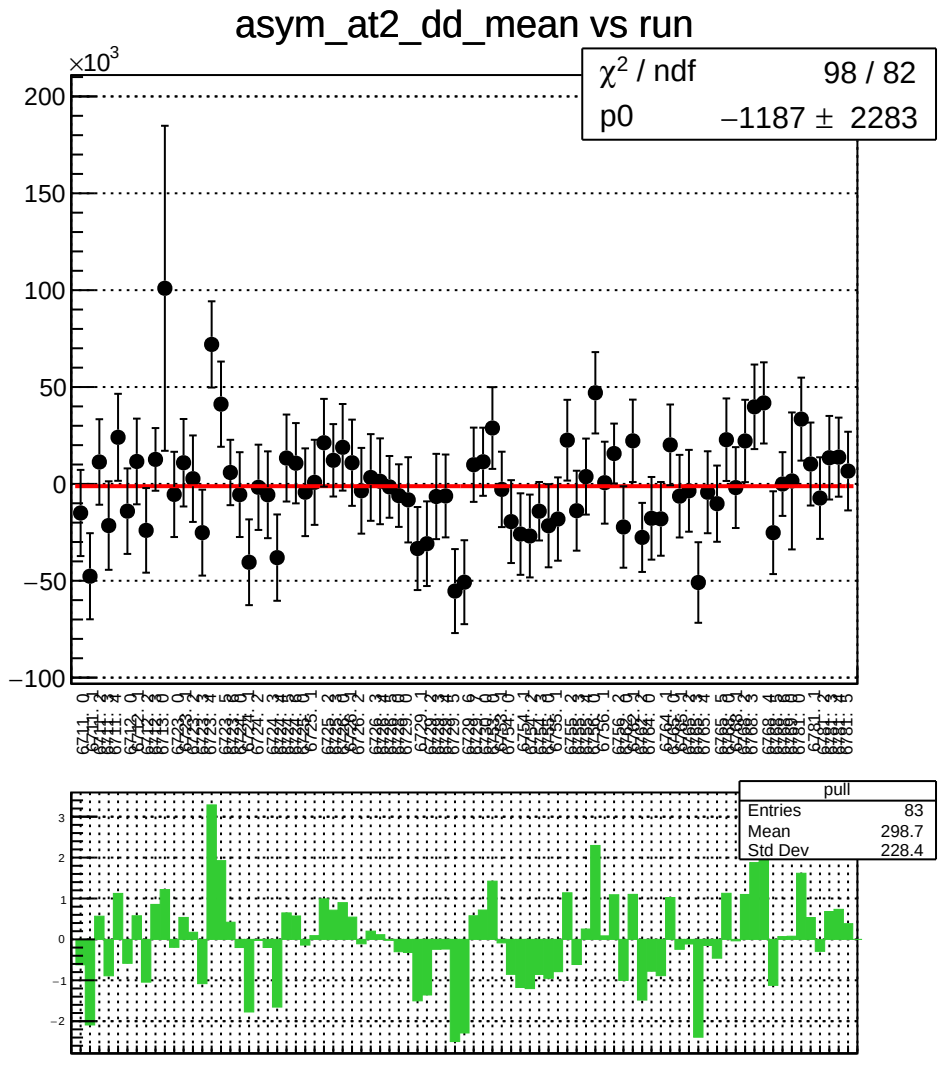

pull1D
Entries 83
Mean 0.006264
Std Dev 1.047

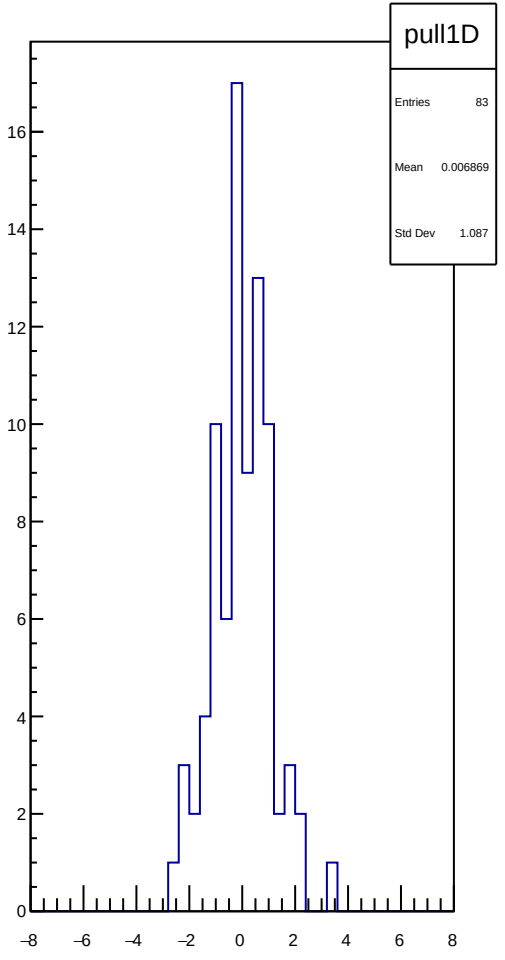

dit_asym_at2_dd_rms vs run
χ^2 / ndf 7810 / 82
p0 1834 ± 1.438
7000
6000
5000
4000
3000
2000

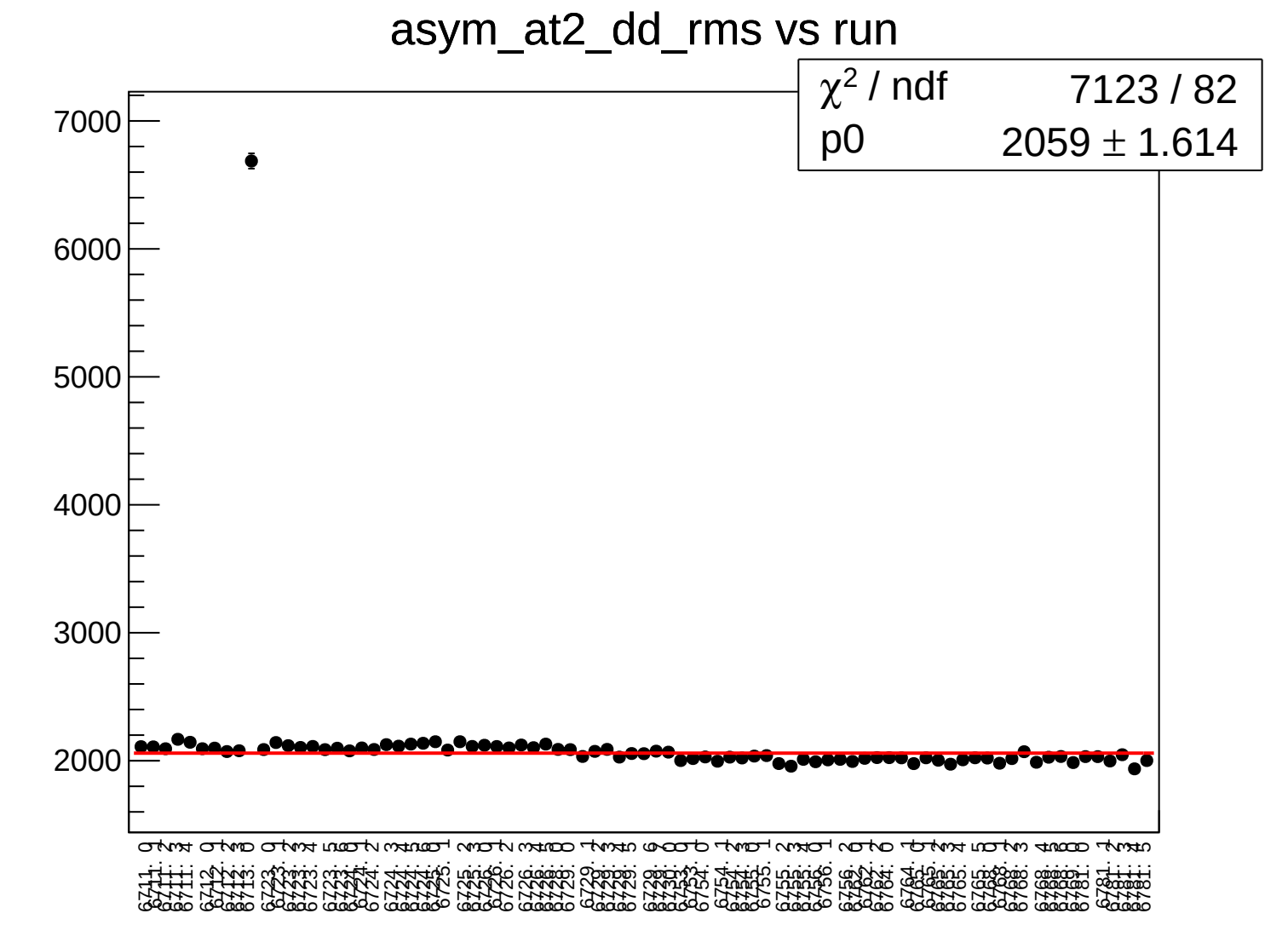

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 94.72 / 82
p0 2791 ± 4198
pull
Entries 83
Mean 2515
Std Dev 2450

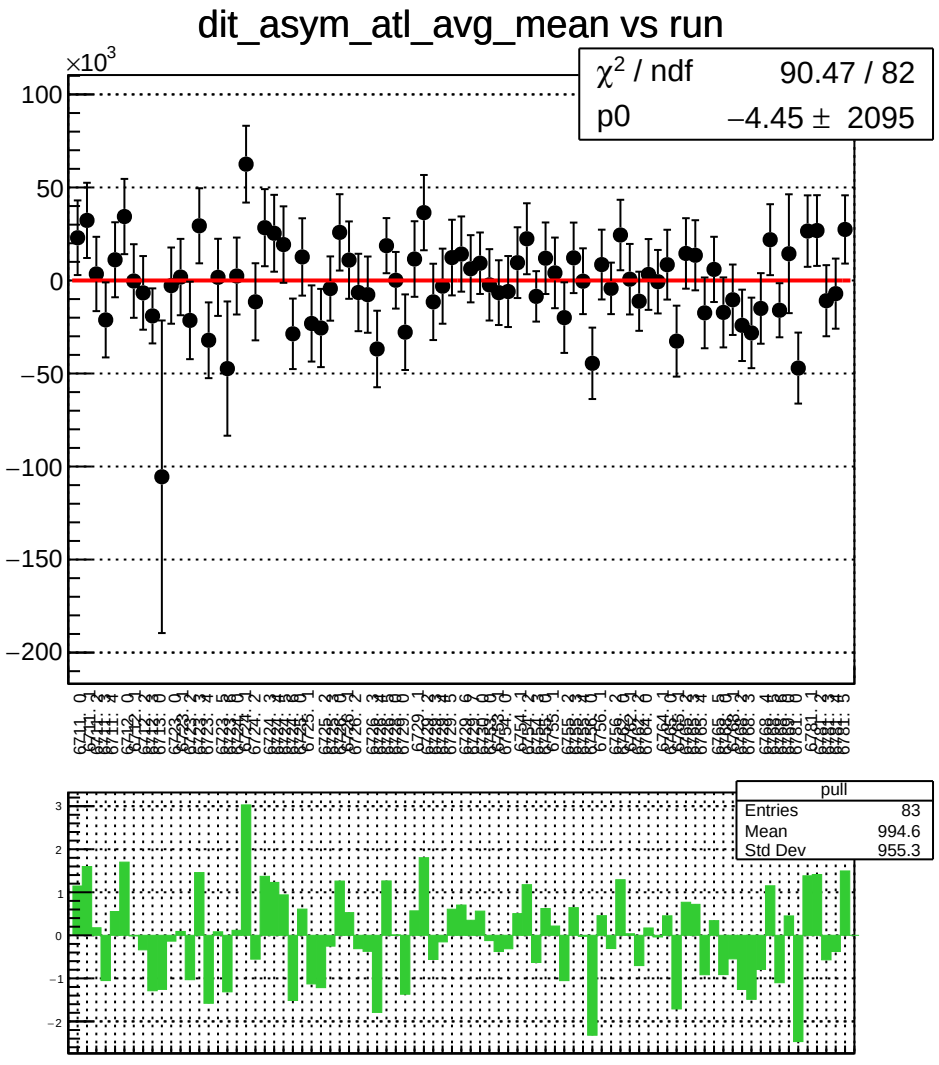

pull1D
Entries 83
Mean −0.0005545
Std Dev 1.068

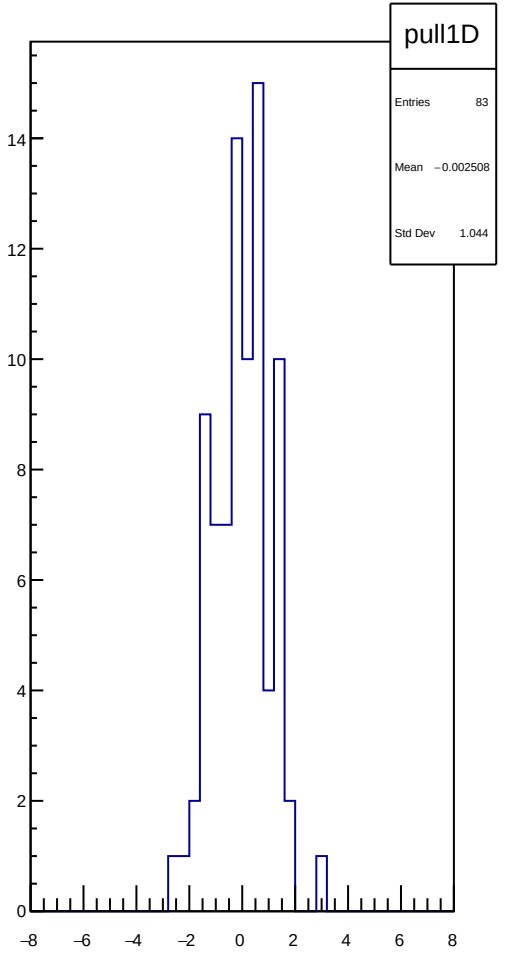

asym_at2_dd_correction_rms vs run
χ² / ndf 7562 / 82
p0 3786 ± 2.968
14000
12000
10000
8000
6000
4000

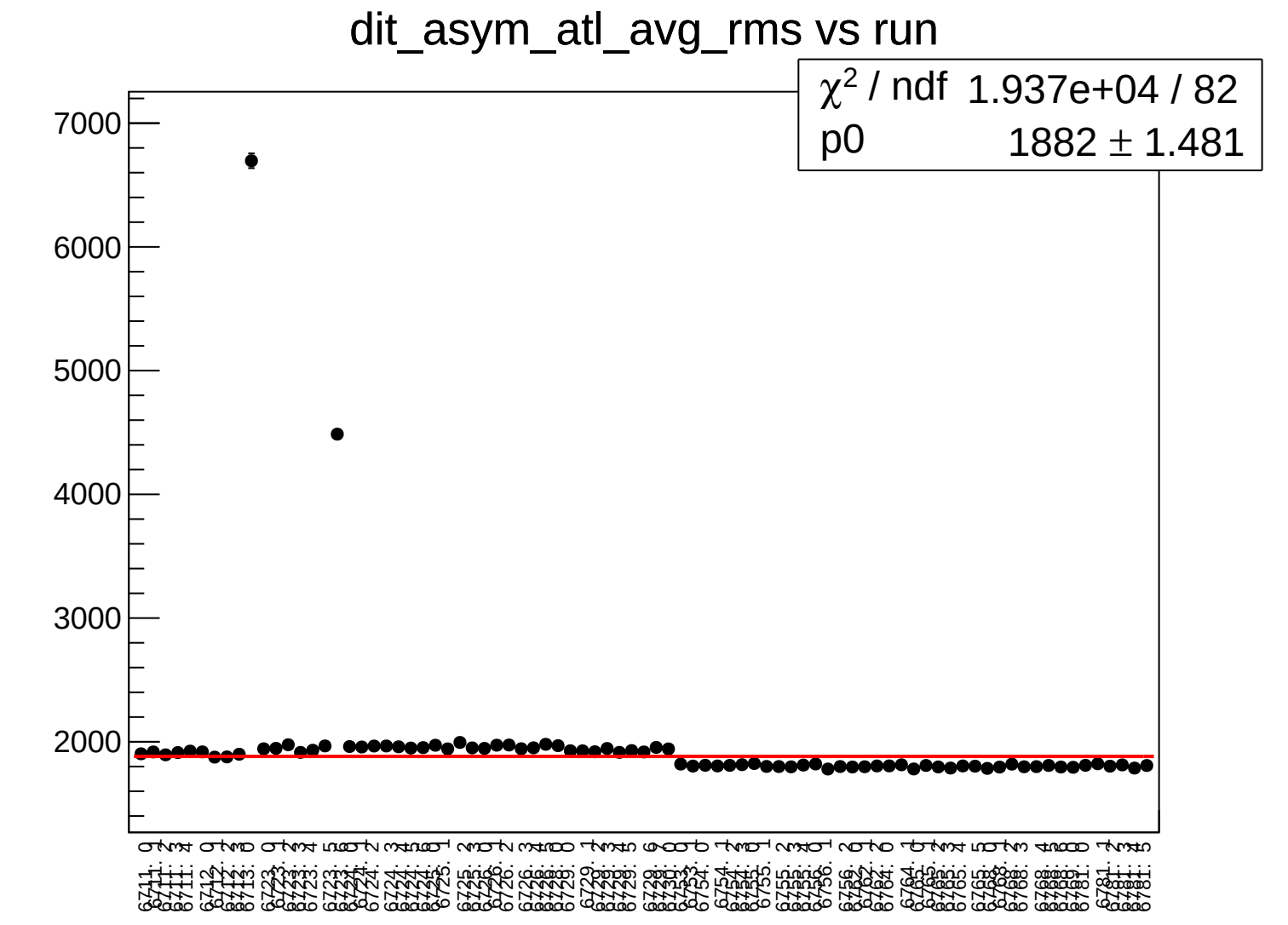

asym_at2_dd_mean vs run
×10^3
χ² / ndf 98 / 82
p0 −1187 ± 2283
200
150
100
50
0
−50
−100
pull
Entries 83
Mean 298.7
Std Dev 228.4
3
2
1
0
−1
−2

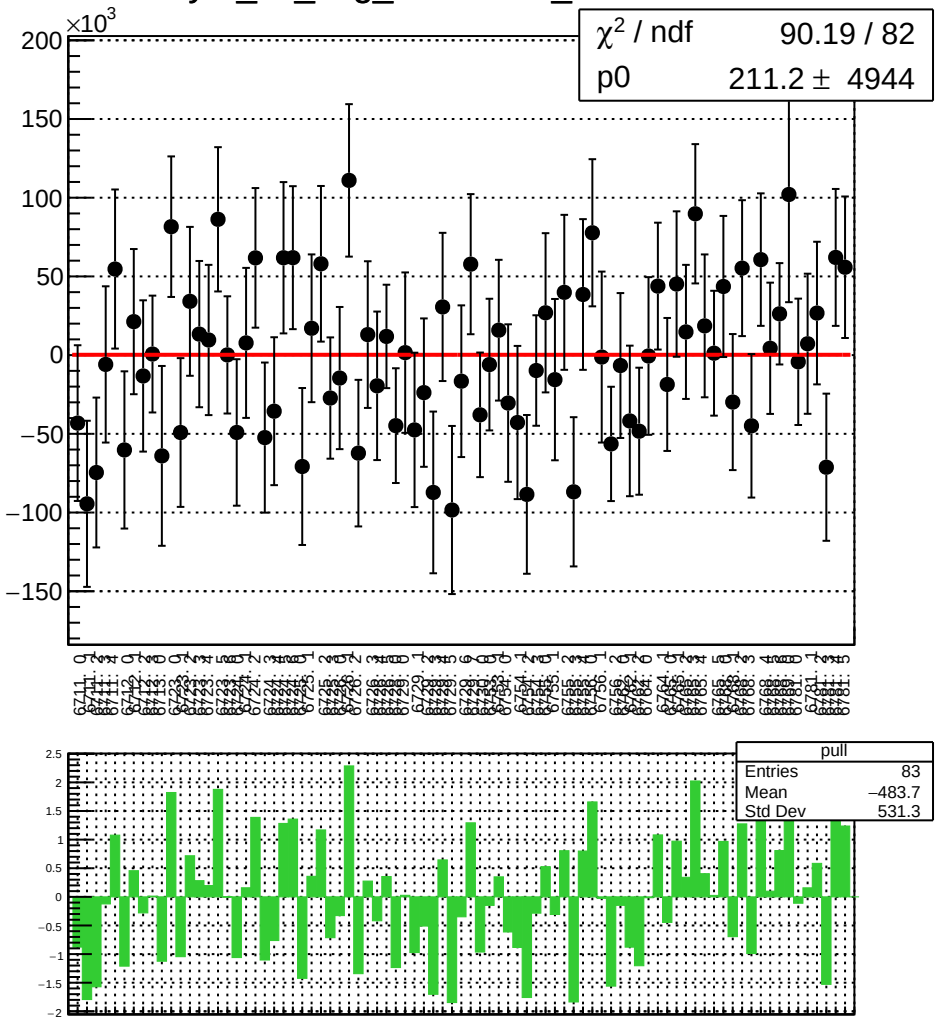

pull1D
Entries 83
Mean 0.006869
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

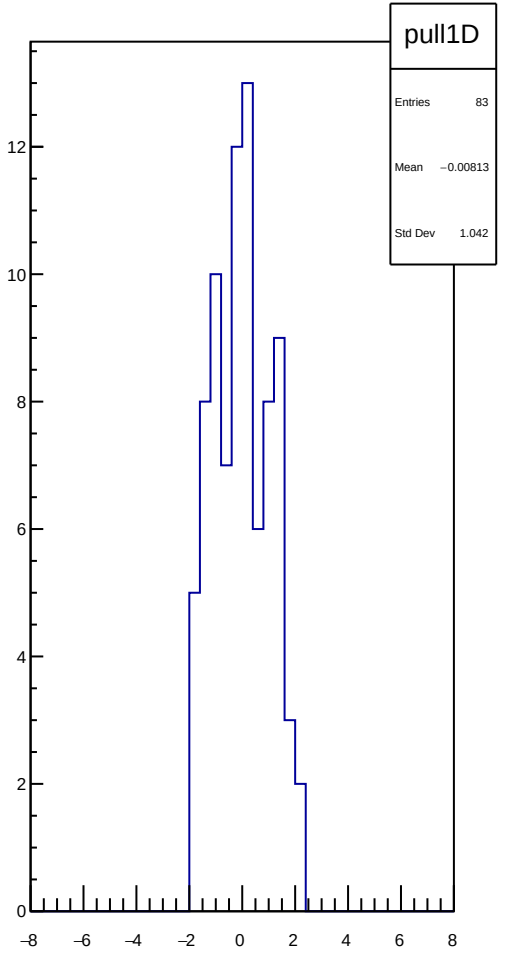

asym_at2_dd_rms vs run
χ^2 / ndf 7123 / 82
p0 2059 ± 1.614
7000
6000
5000
4000
3000
2000

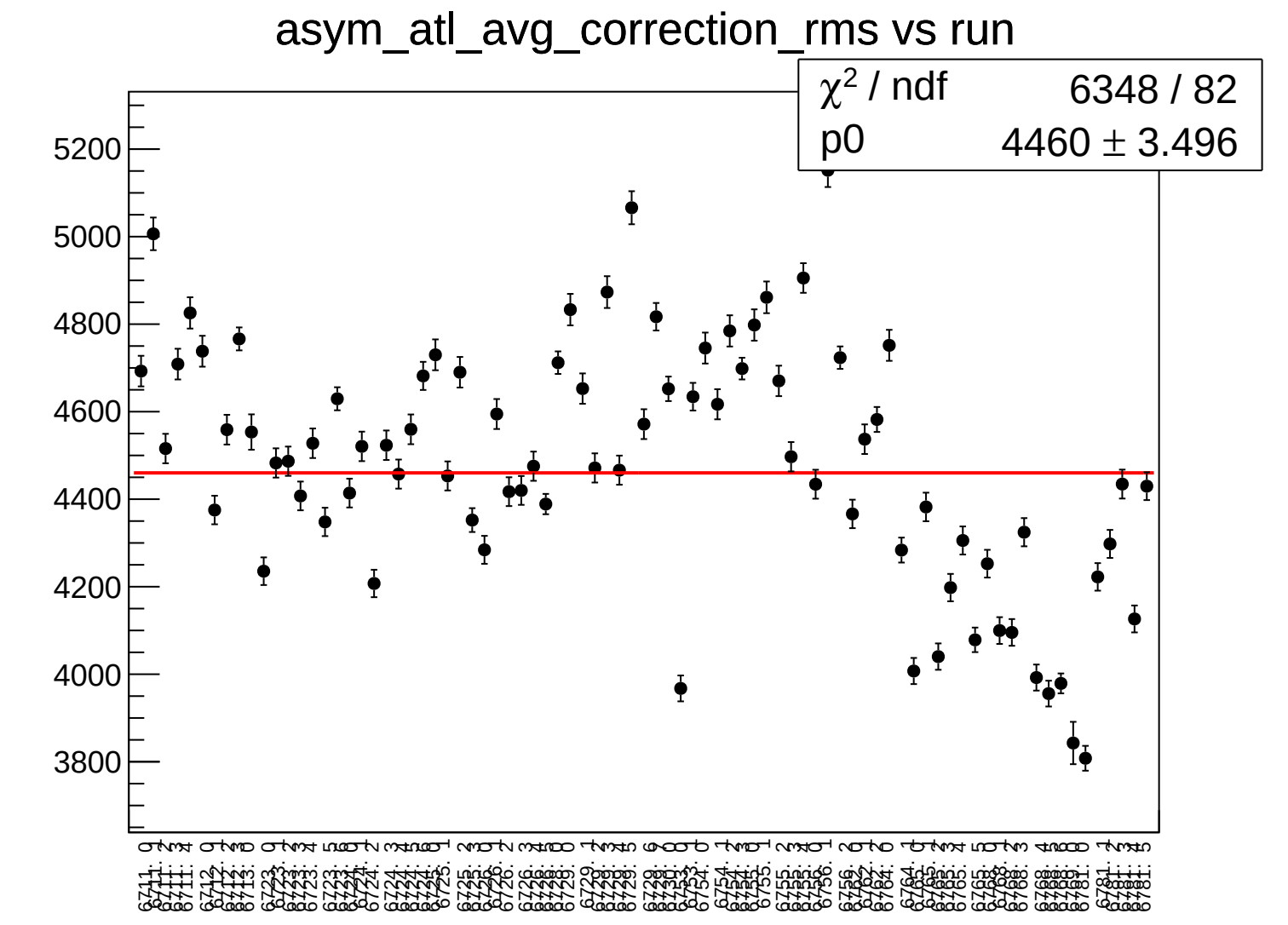

dit_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 90.47 / 82
p0 −4.45 ± 2095
pull
Entries 83
Mean 994.6
Std Dev 955.3

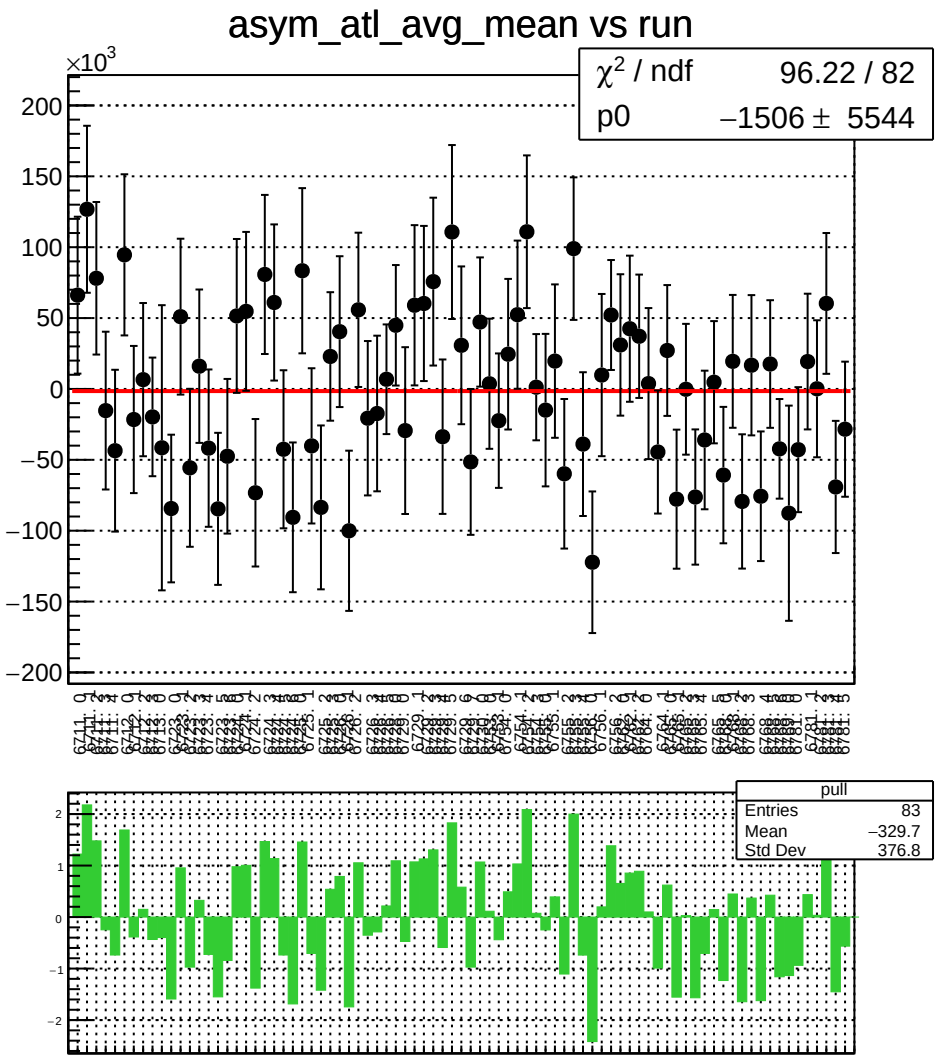

pull1D
Entries 83
Mean −0.002508
Std Dev 1.044

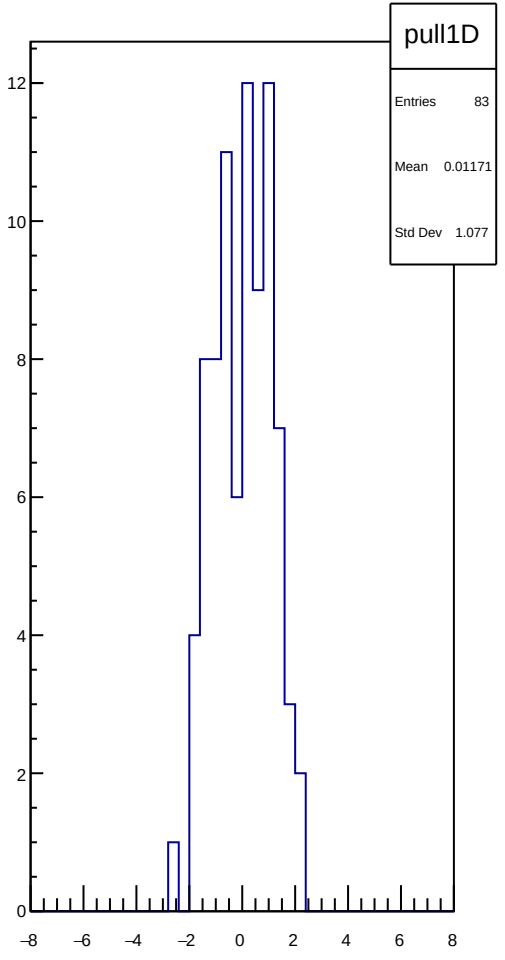

dit_asym_atl_avg_rms vs run
χ² / ndf 1.937e+04 / 82
p0 1882 ± 1.481
7000
6000
5000
4000
3000
2000

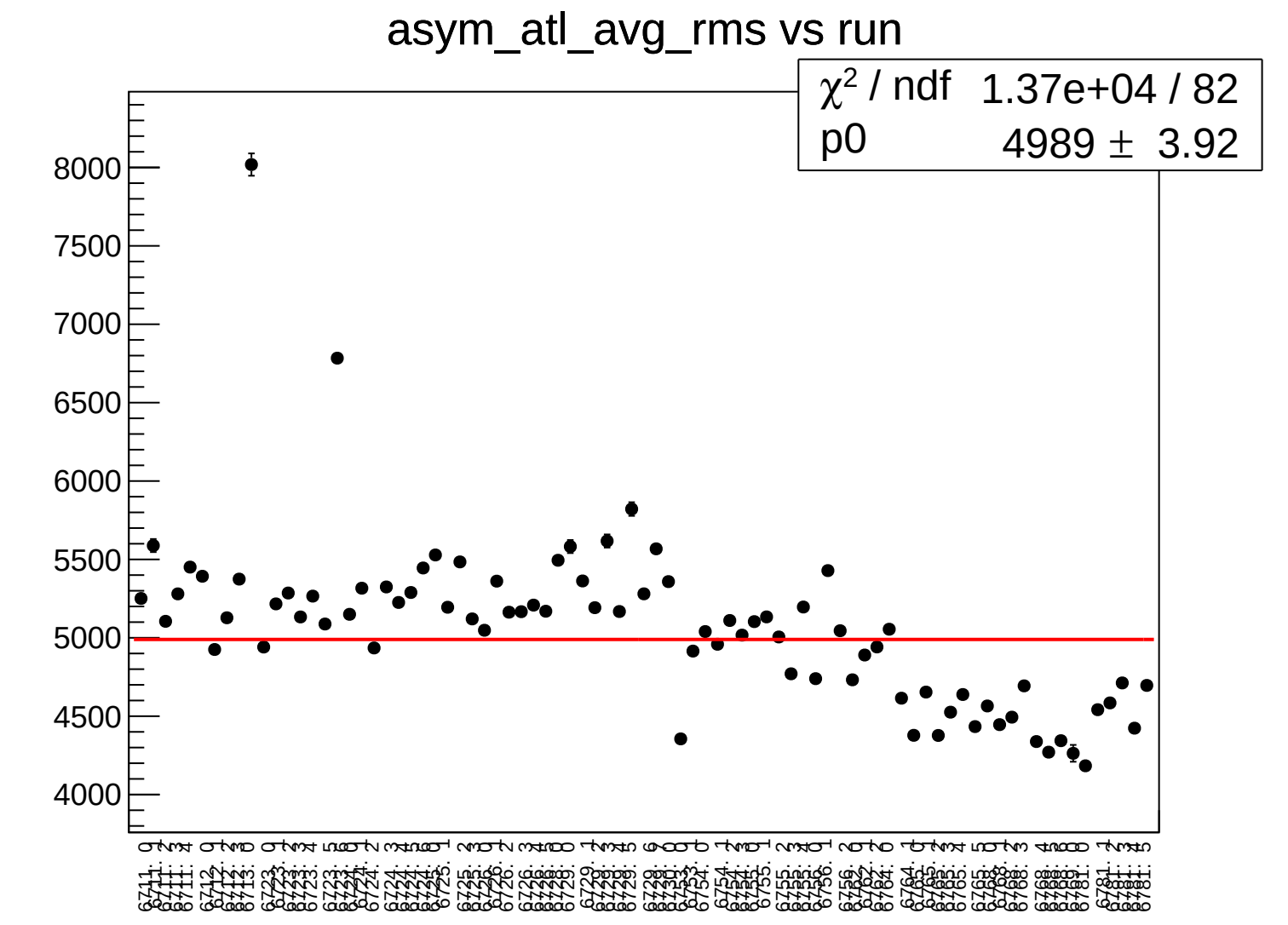

asym_atl_avg_correction_mean vs run
χ² / ndf 90.19 / 82
p0 211.2 ± 4944
pull
Entries 83
Mean −483.7
Std Dev 531.3

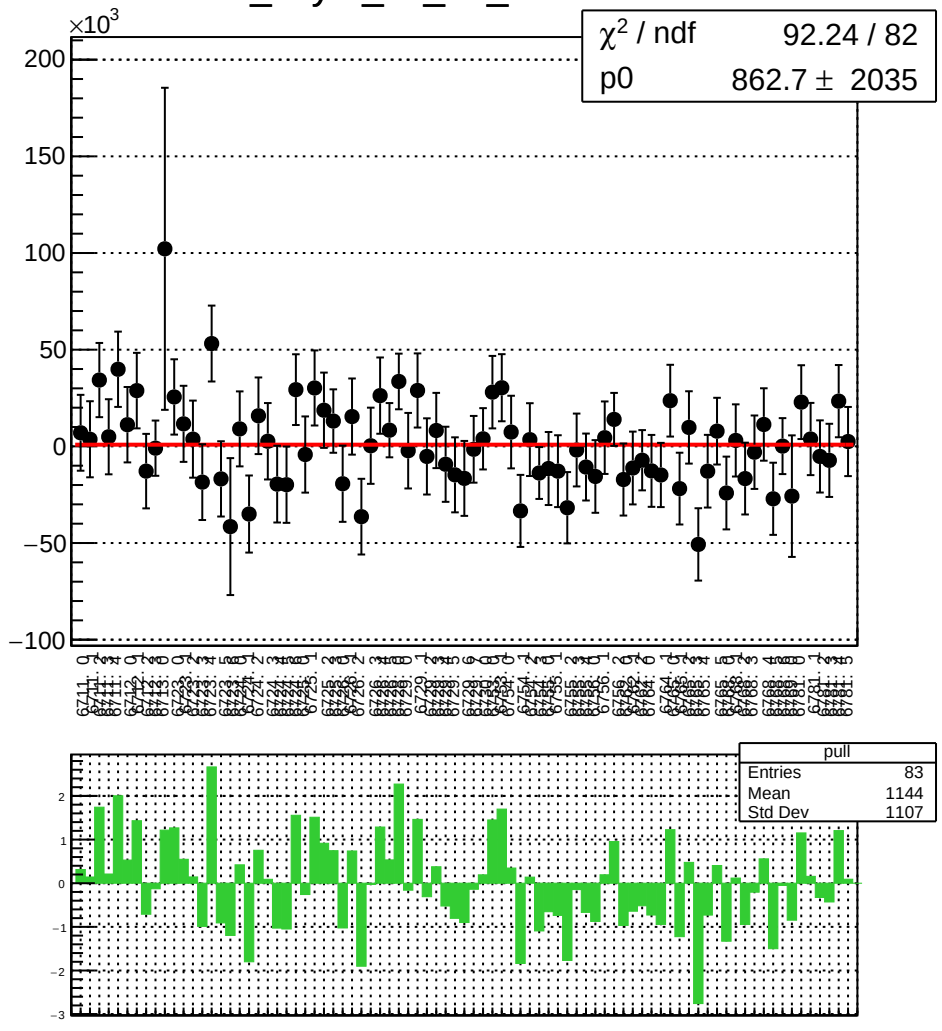

pull1D
Entries 83
Mean −0.00813
Std Dev 1.042

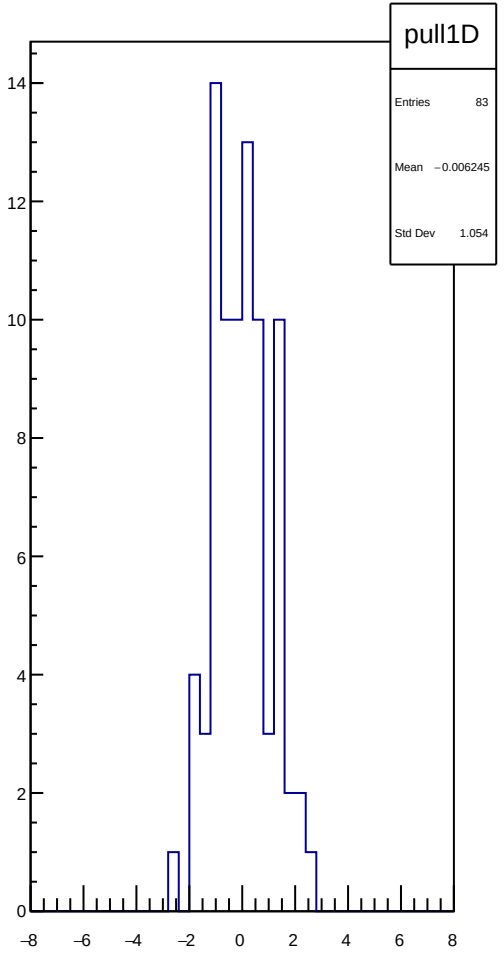

asym_atl_avg_correction_rms vs run
χ² / ndf 6348 / 82
p0 4460 ± 3.496
5200
5000
4800
4600
4400
4200
4000
3800

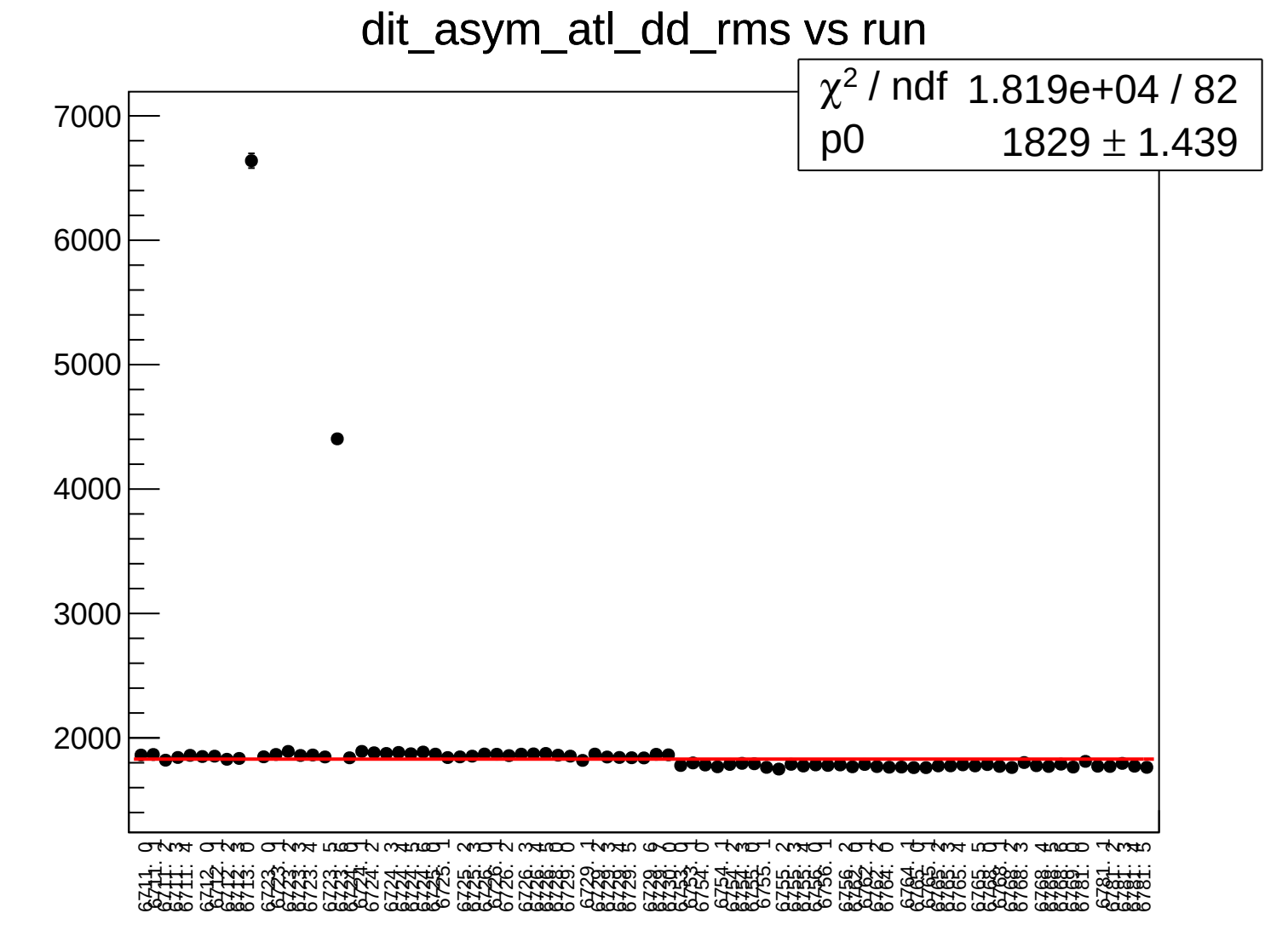

asym_atl_avg_mean vs run
×10^3
χ² / ndf 96.22 / 82
p0 −1506 ± 5544
pull
Entries 83
Mean −329.7
Std Dev 376.8

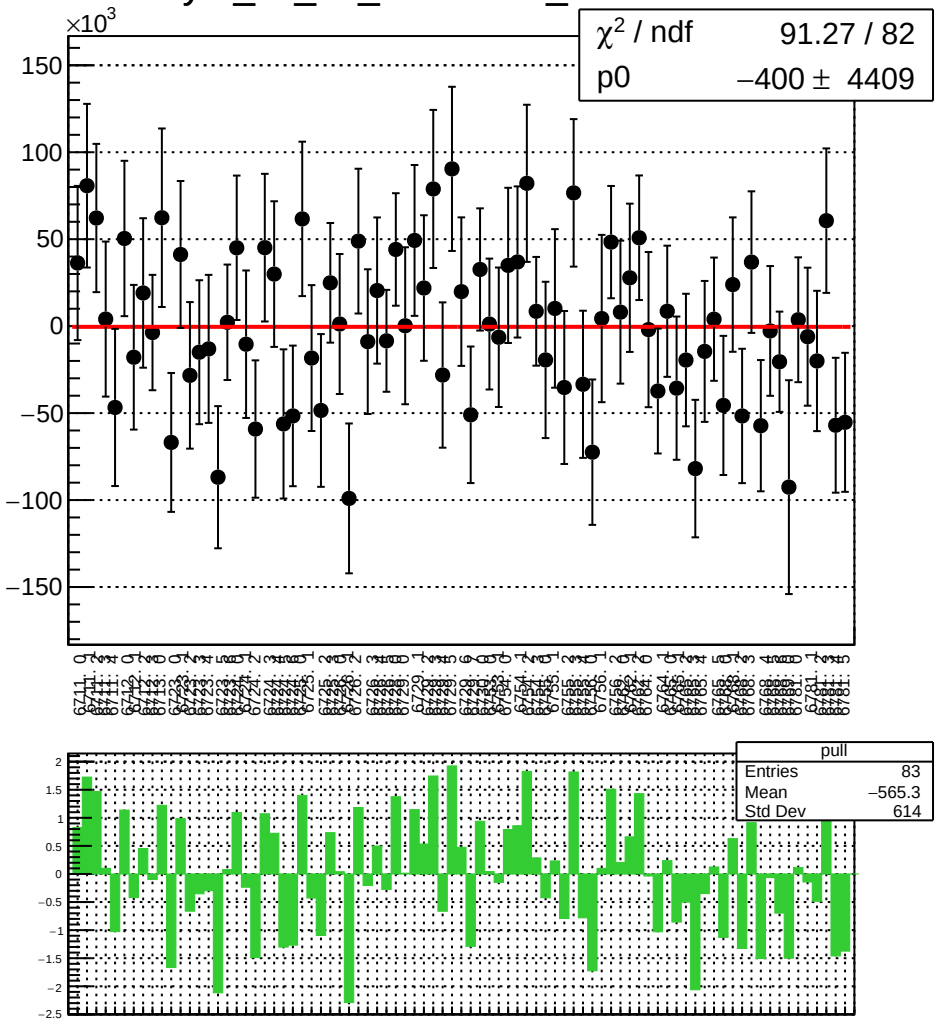

pull1D
Entries 83
Mean 0.01171
Std Dev 1.077

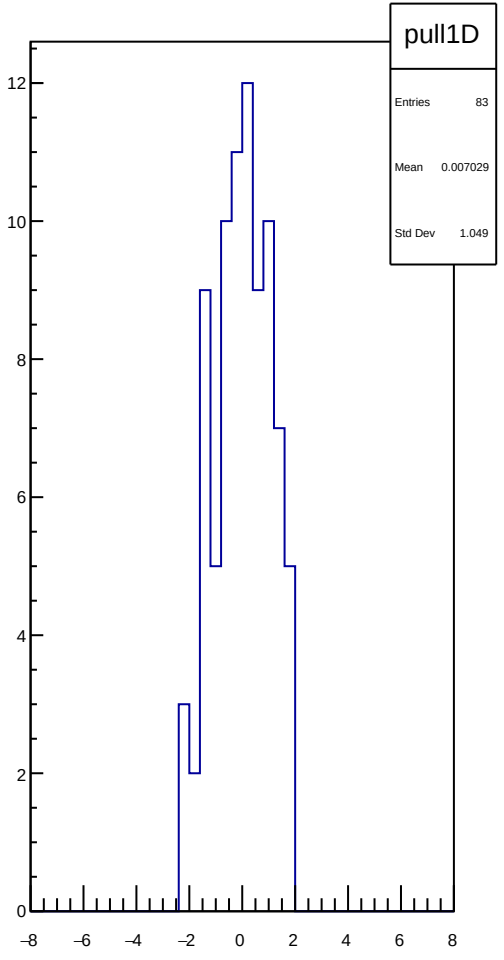

asym_atl_avg_rms vs run
χ² / ndf 1.37e+04 / 82
p0 4989 ± 3.92
8000
7500
7000
6500
6000
5500
5000
4500
4000

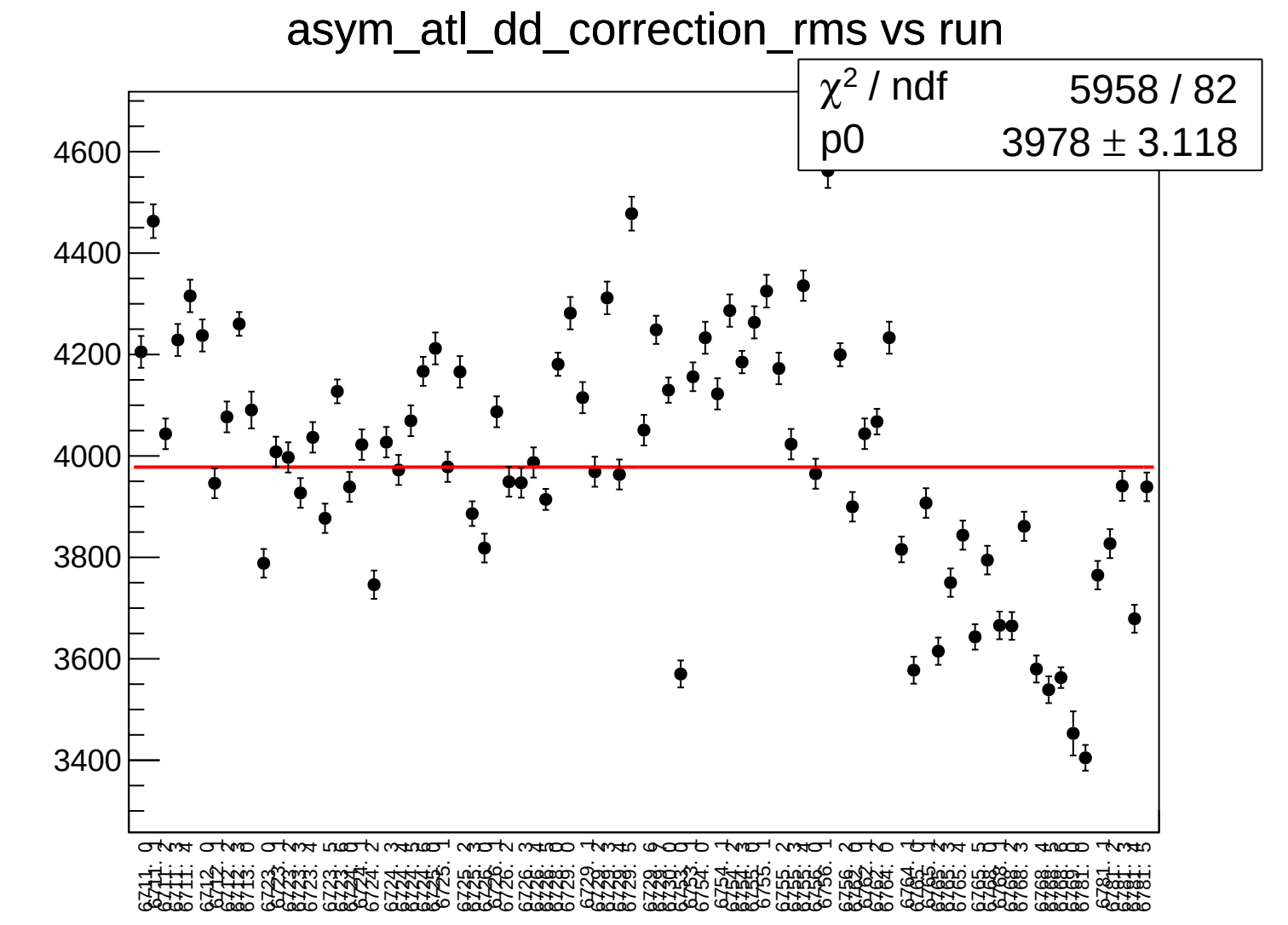

dit_asym_atl_dd_mean vs run
χ^2 / ndf 92.24 / 82
p0 862.7 ± 2035
×10^3
pull
Entries 83
Mean 1144
Std Dev 1107

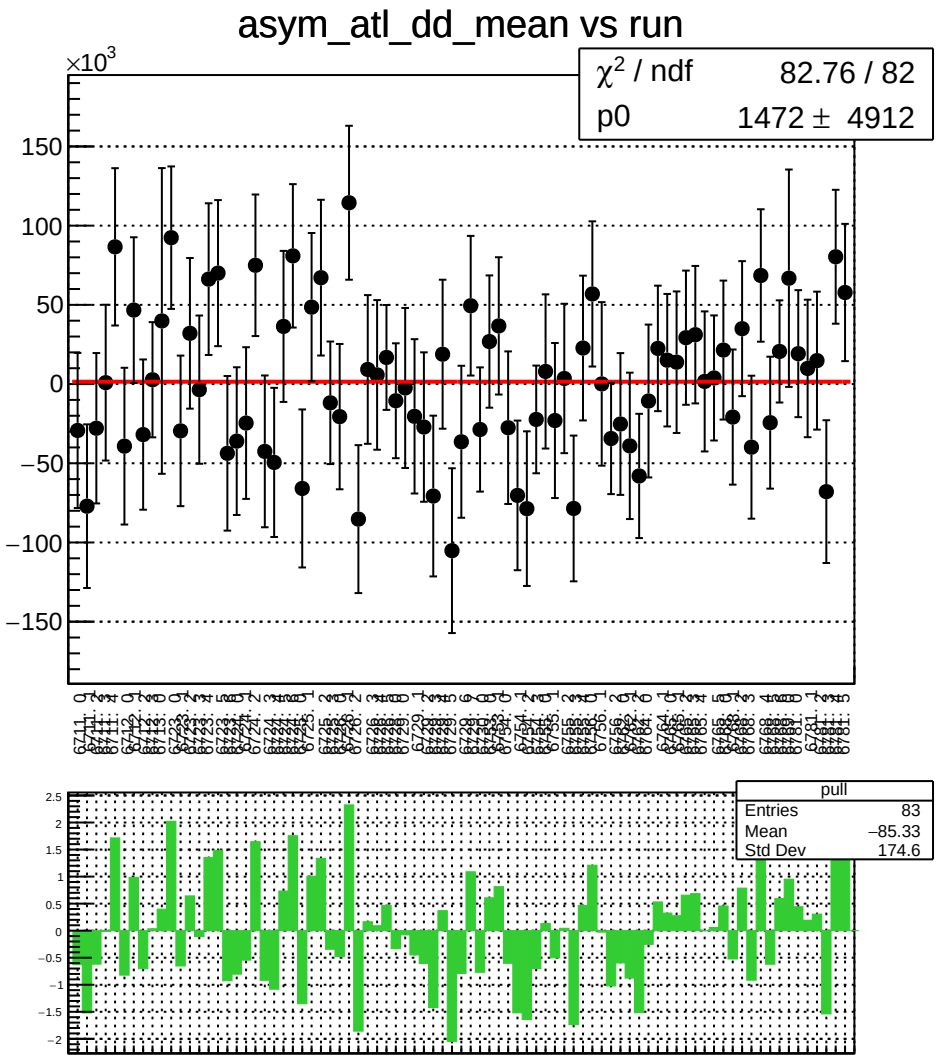

pull1D
Entries 83
Mean −0.006245
Std Dev 1.054

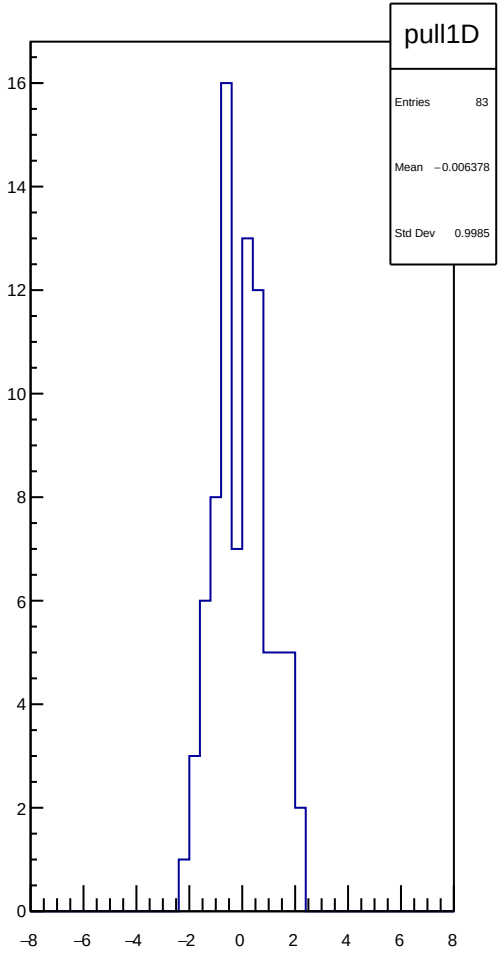

dit_asym_atl_dd_rms vs run
χ^2 / ndf 1.819e+04 / 82
p0 1829 ± 1.439
7000
6000
5000
4000
3000
2000

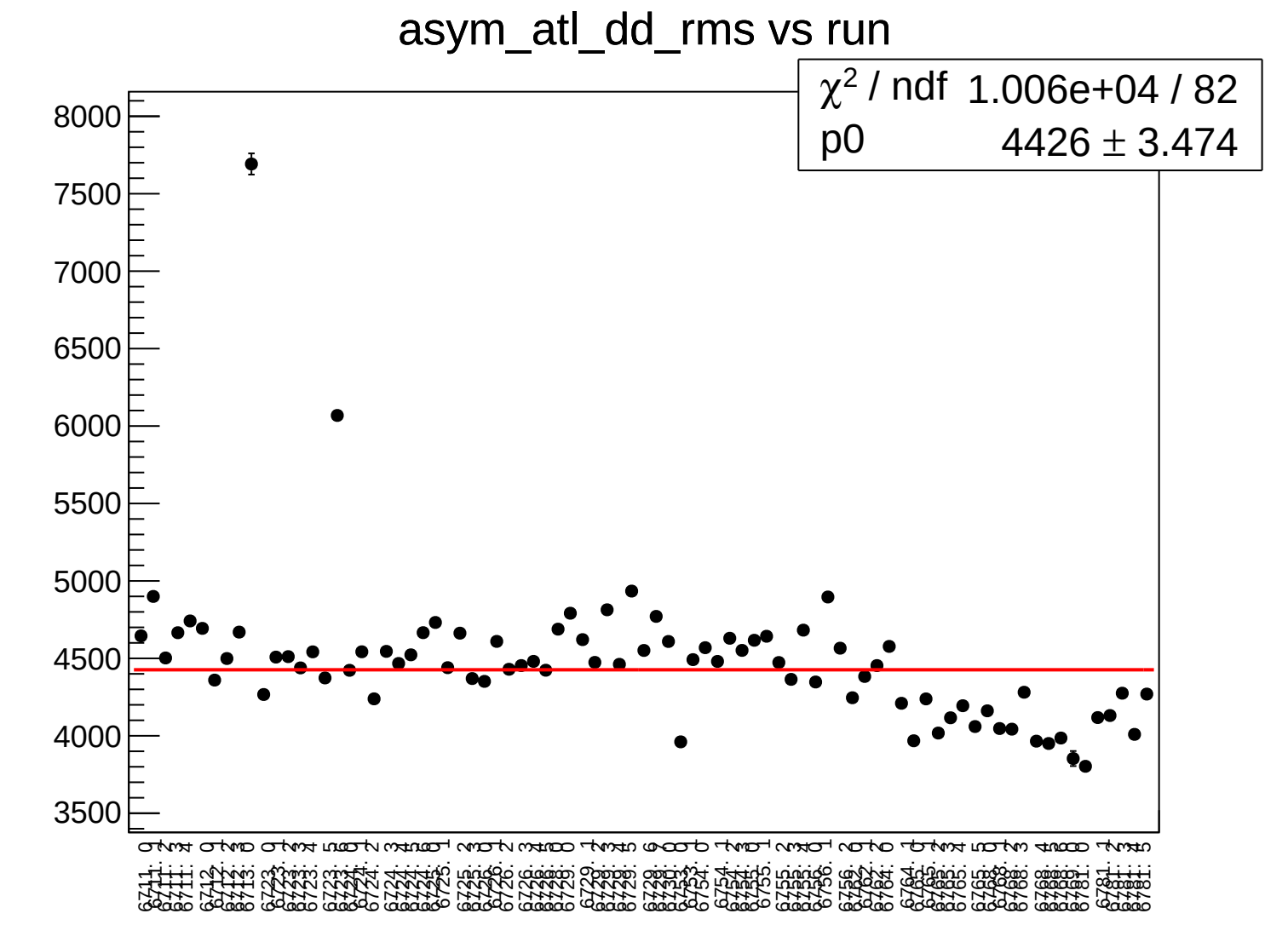

asym_atl_dd_correction_mean vs run
χ² / ndf 91.27 / 82
p0 −400 ± 4409
pull
Entries 83
Mean −565.3
Std Dev 614

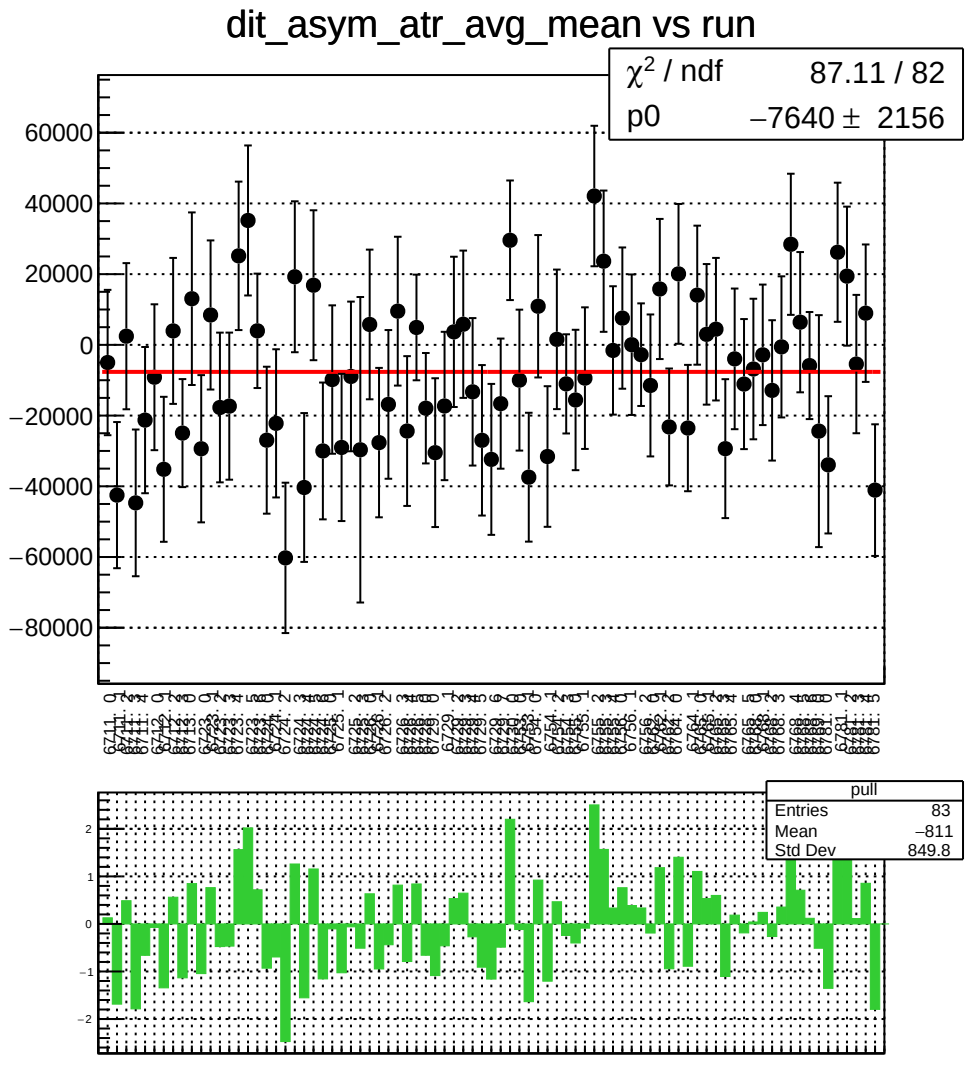

pull1D
Entries 83
Mean 0.007029
Std Dev 1.049

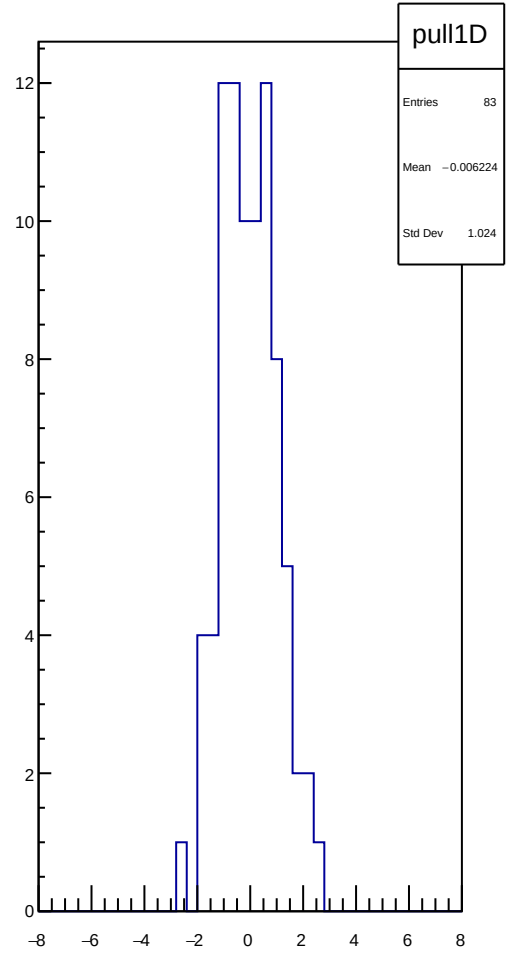

asym_atl_dd_correction_rms vs run
χ² / ndf 5958 / 82
p0 3978 ± 3.118
4600
4400
4200
4000
3800
3600
3400

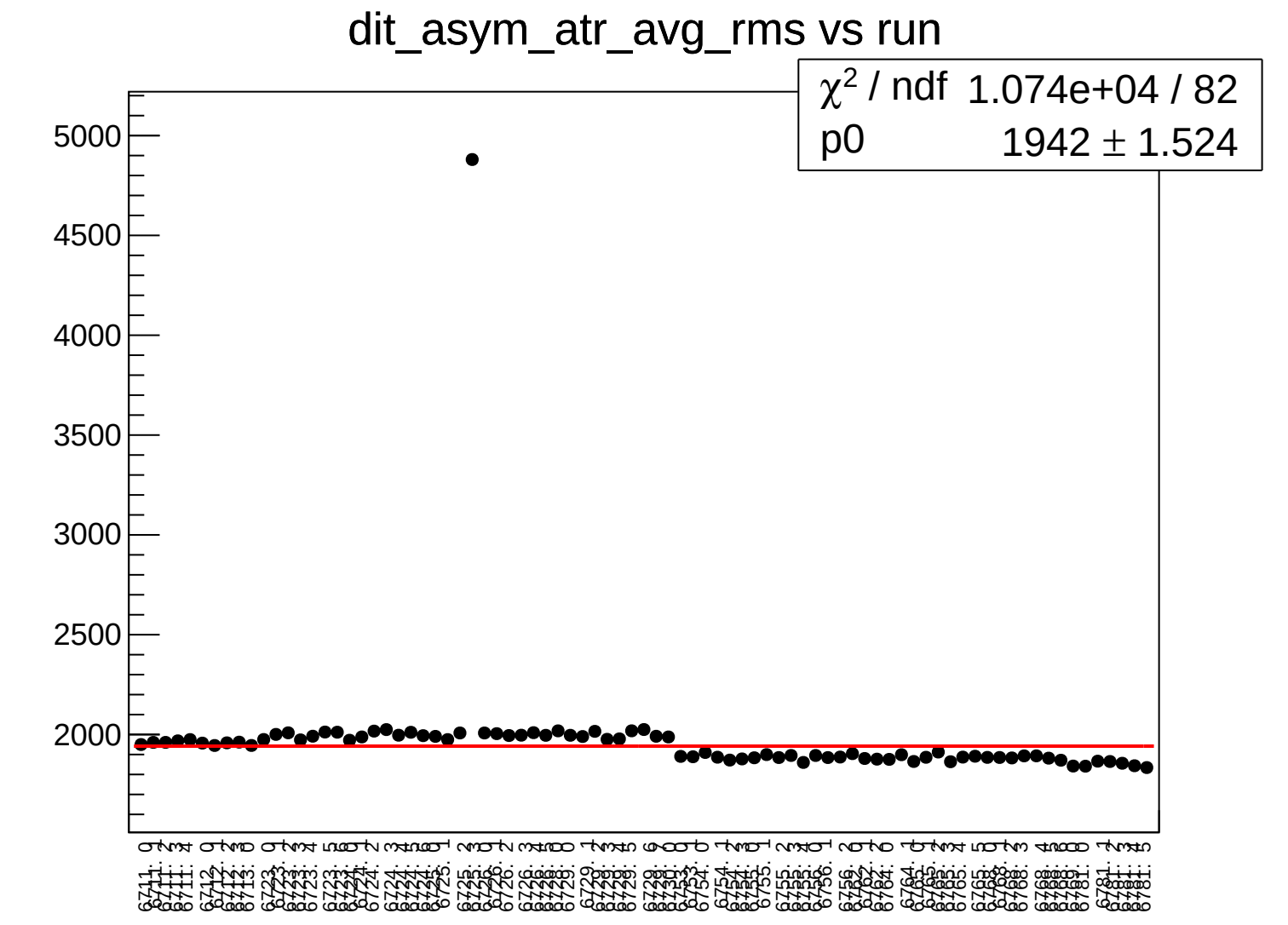

asym_atl_dd_mean vs run
χ² / ndf 82.76 / 82
p0 1472 ± 4912
pull
Entries 83
Mean −85.33
Std Dev 174.6

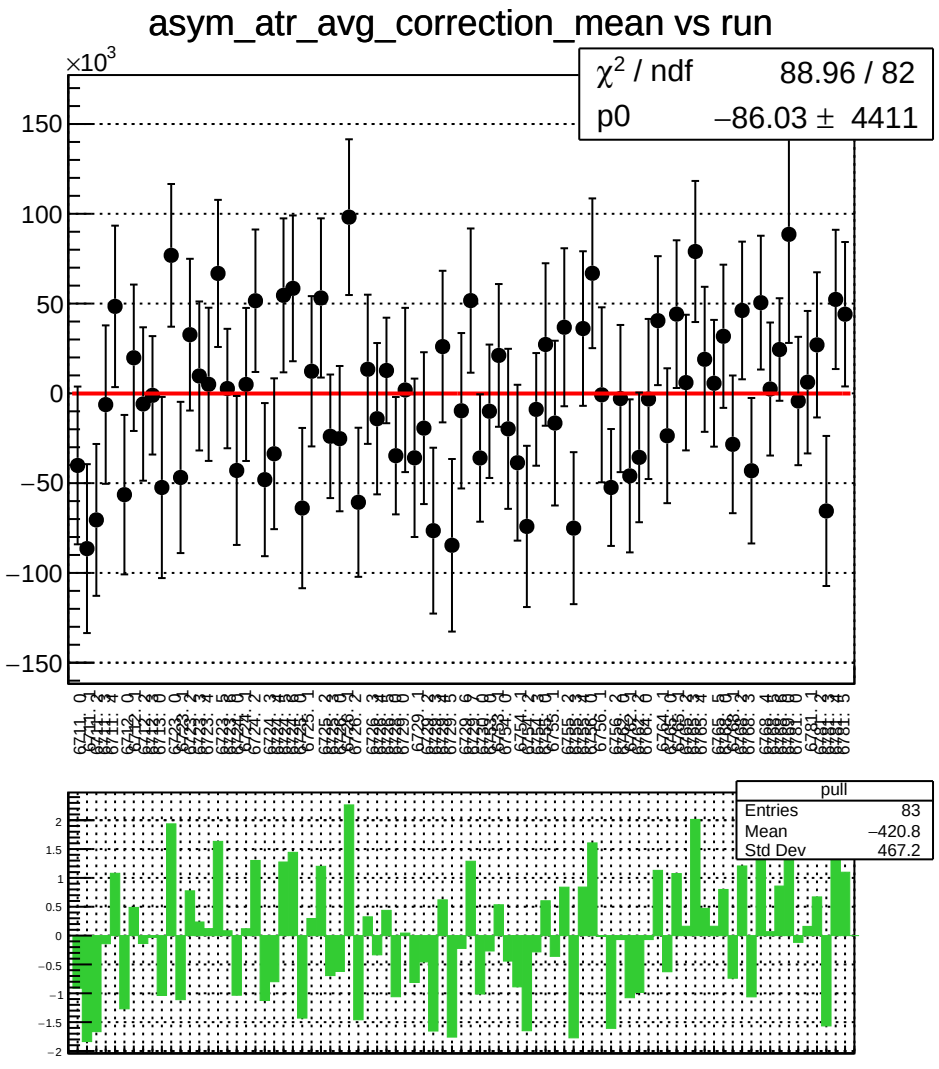

pull1D
Entries 83
Mean −0.006378
Std Dev 0.9985

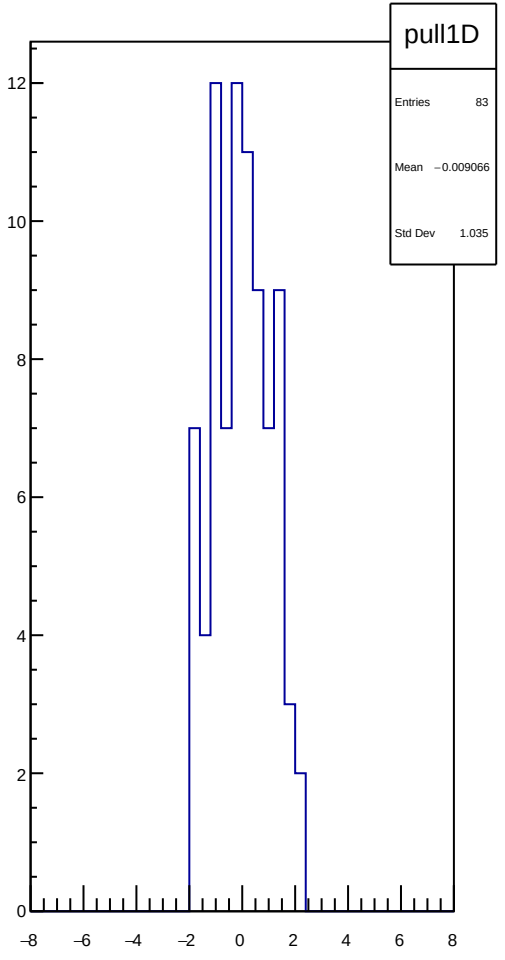

asym_atl_dd_rms vs run
χ² / ndf 1.006e+04 / 82
p0 4426 ± 3.474
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500

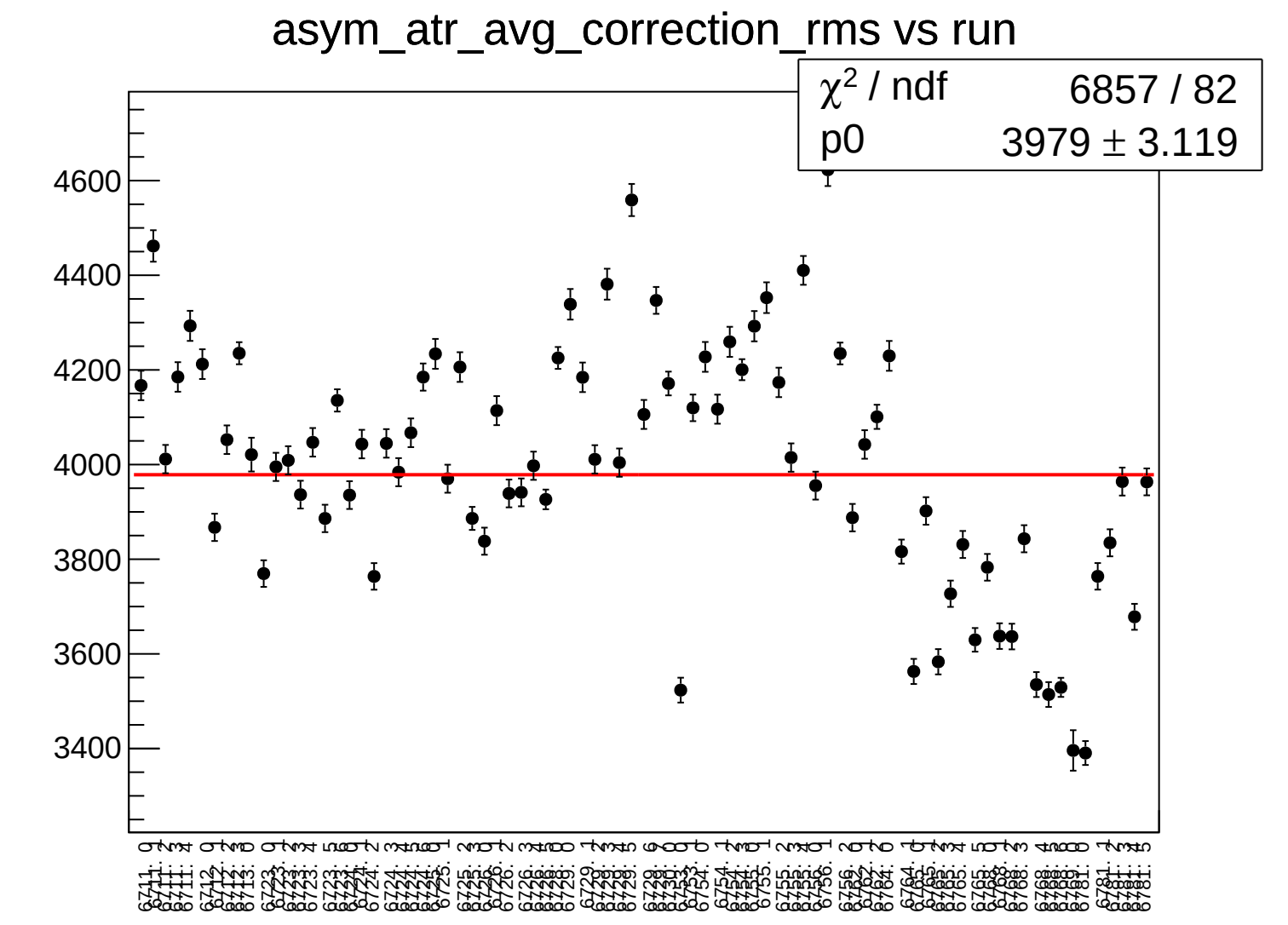

dit_asym_atr_avg_mean vs run
χ² / ndf 87.11 / 82
p0 −7640 ± 2156
pull
Entries 83
Mean −811
Std Dev 849.8

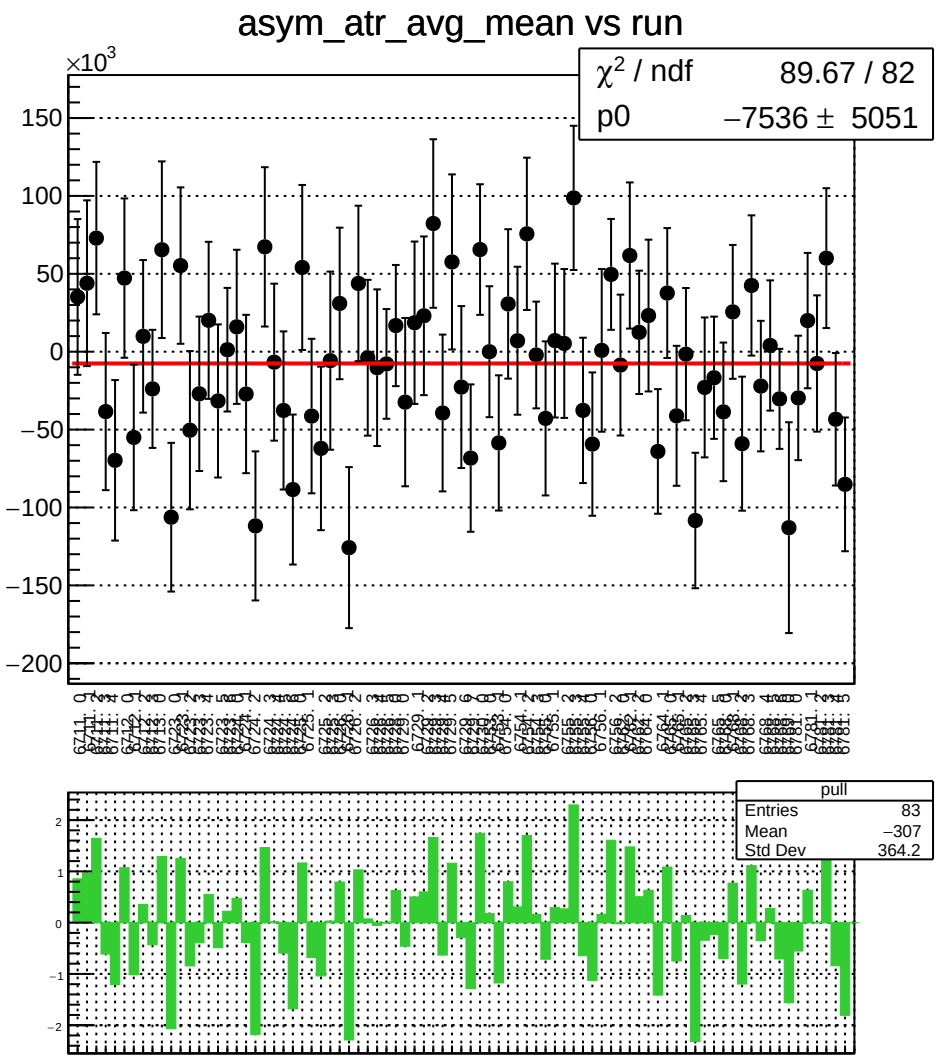

pull1D
Entries 83
Mean −0.006224
Std Dev 1.024

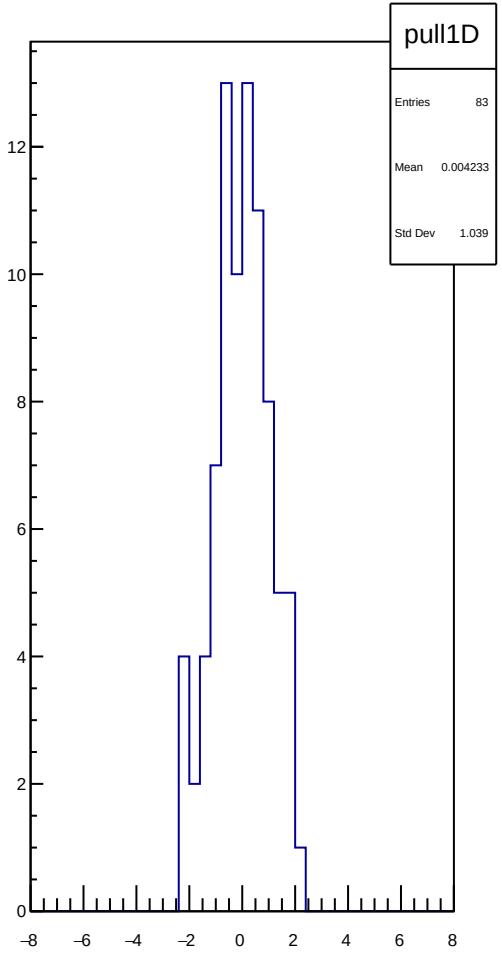

dit_asym_atr_avg_rms vs run
χ^2 / ndf 1.074e+04 / 82
p0 1942 ± 1.524
5000
4500
4000
3500
3000
2500
2000

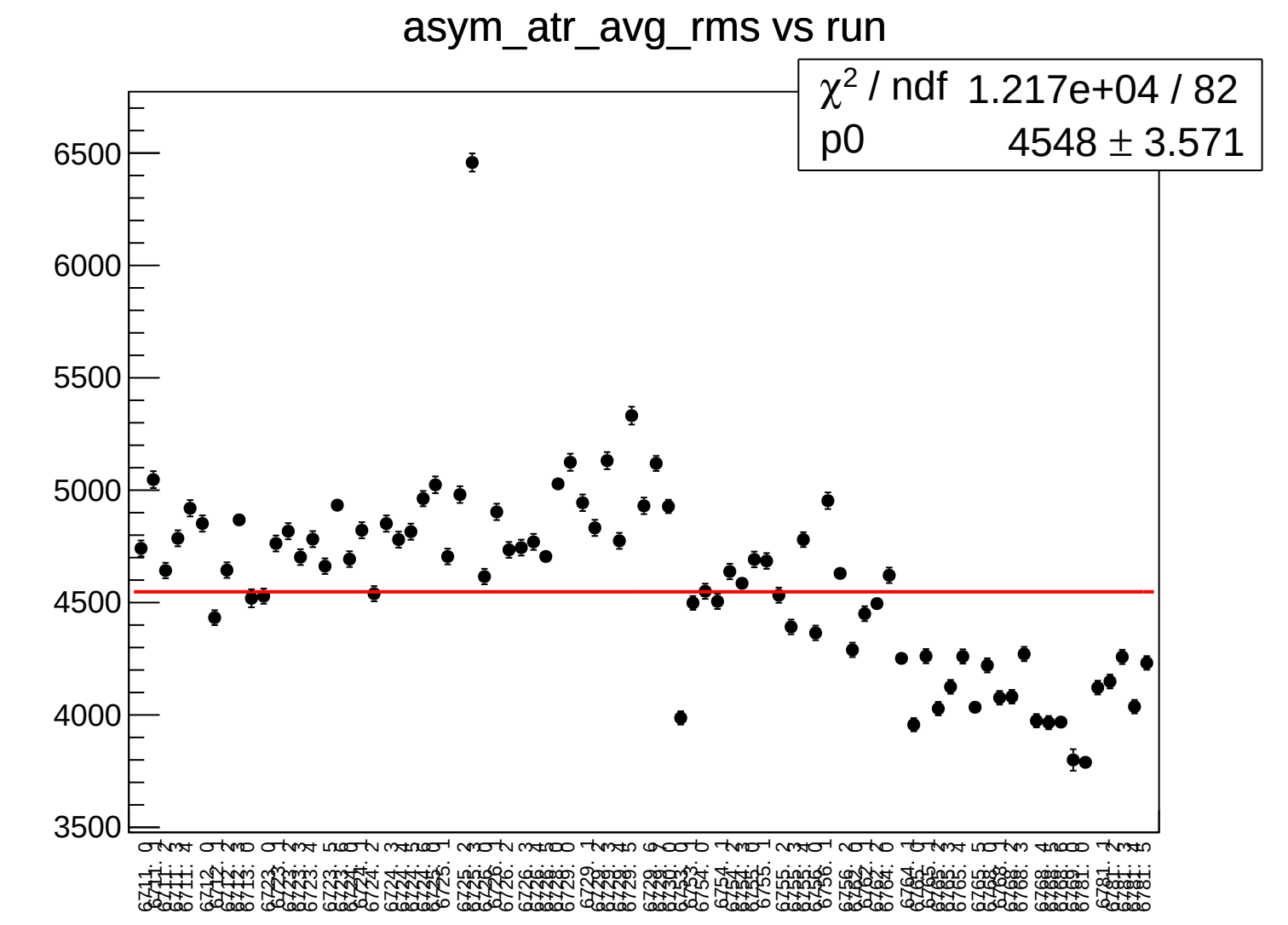

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 88.96 / 82
p0 −86.03 ± 4411
150
100
50
0
−50
−100
−150
pull
Entries 83
Mean −420.8
Std Dev 467.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

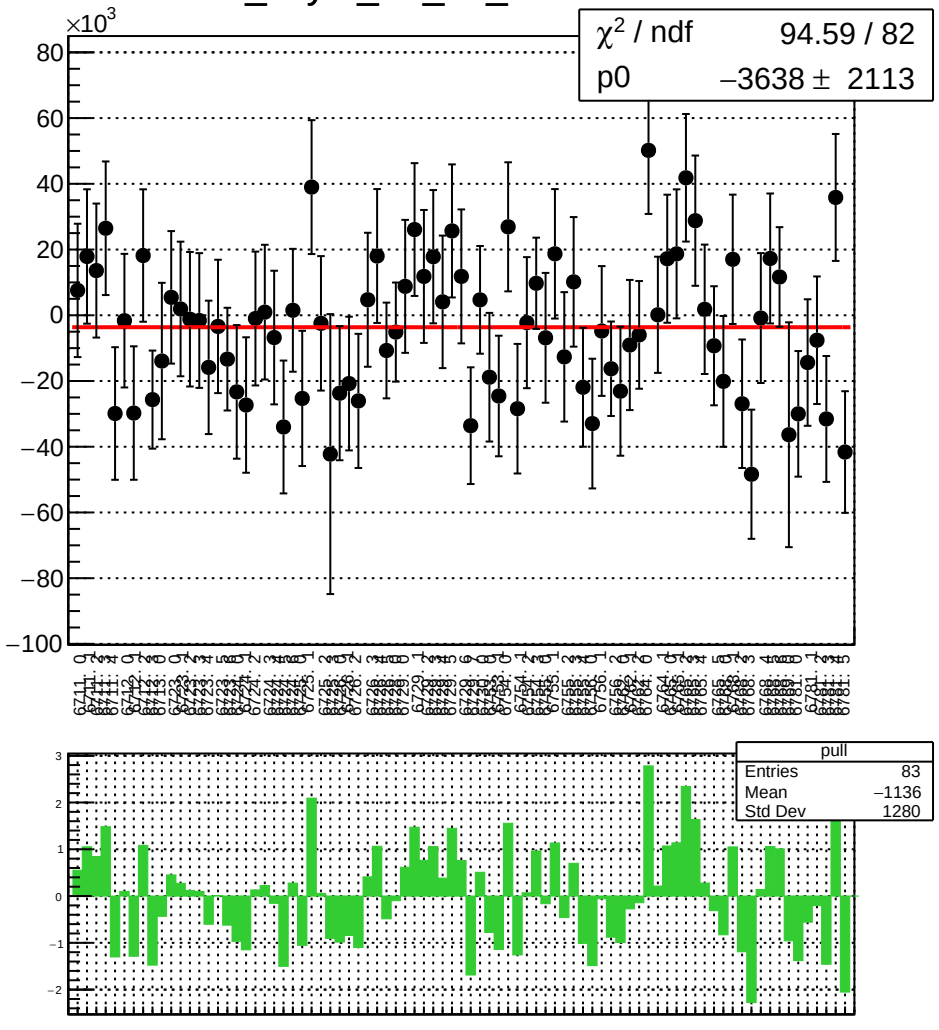

pull1D
Entries 83
Mean −0.009066
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

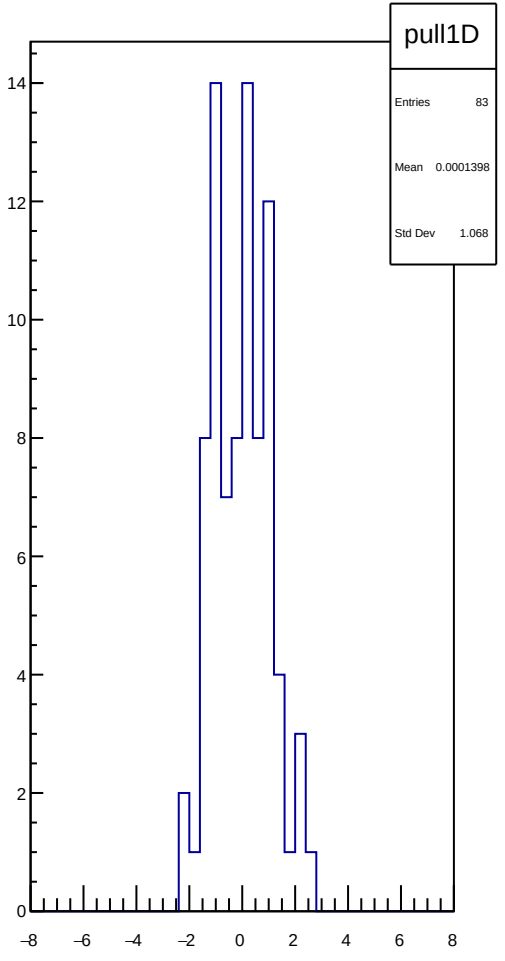

asym_atr_avg_correction_rms vs run
χ² / ndf 6857 / 82
p0 3979 ± 3.119
4600
4400
4200
4000
3800
3600
3400

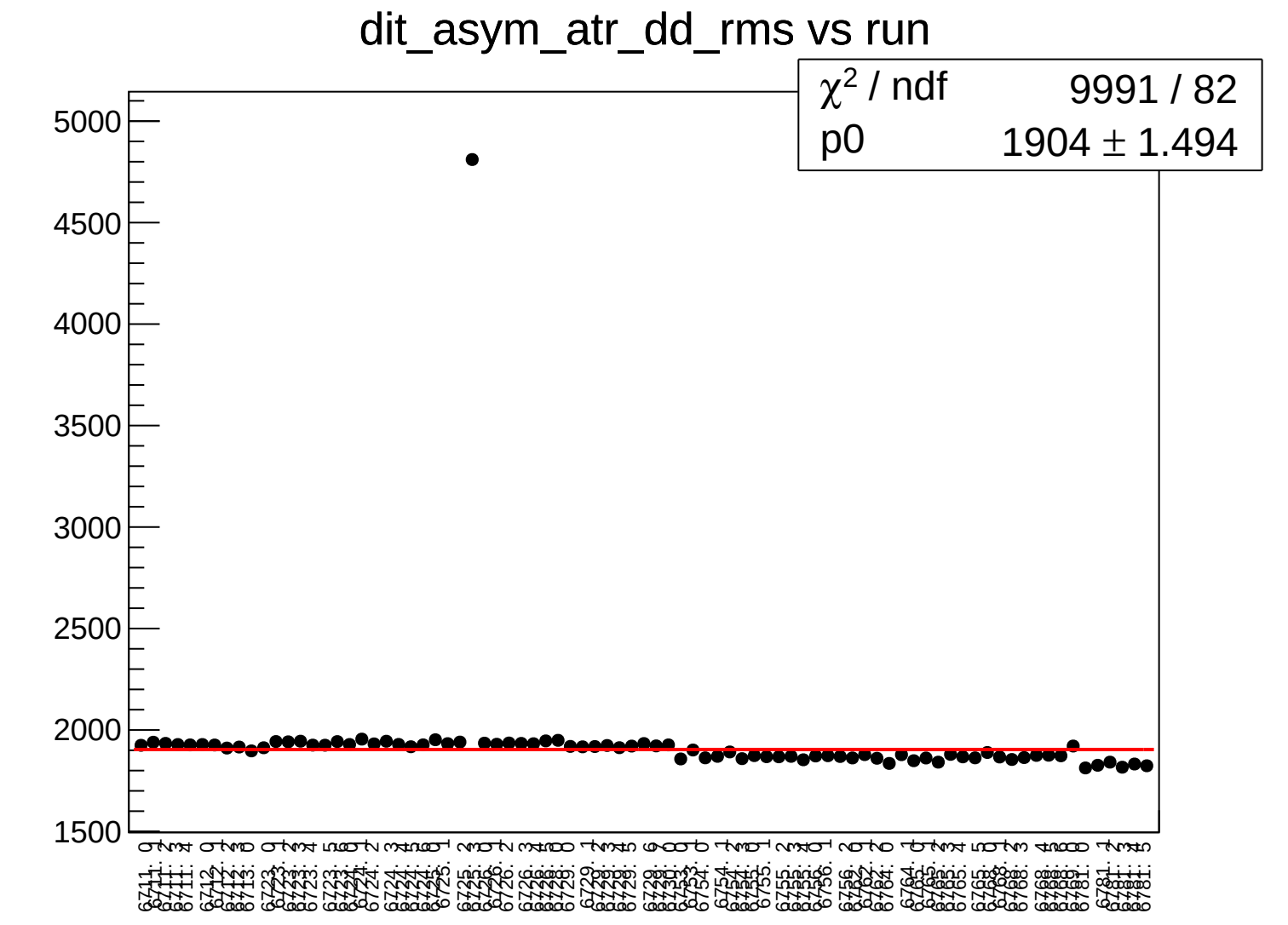

asym_atr_avg_mean vs run
×10^3
χ² / ndf 89.67 / 82
p0 −7536 ± 5051
150
100
50
0
−50
−100
−150
−200
pull
Entries 83
Mean −307
Std Dev 364.2
2
1
0
−1
−2

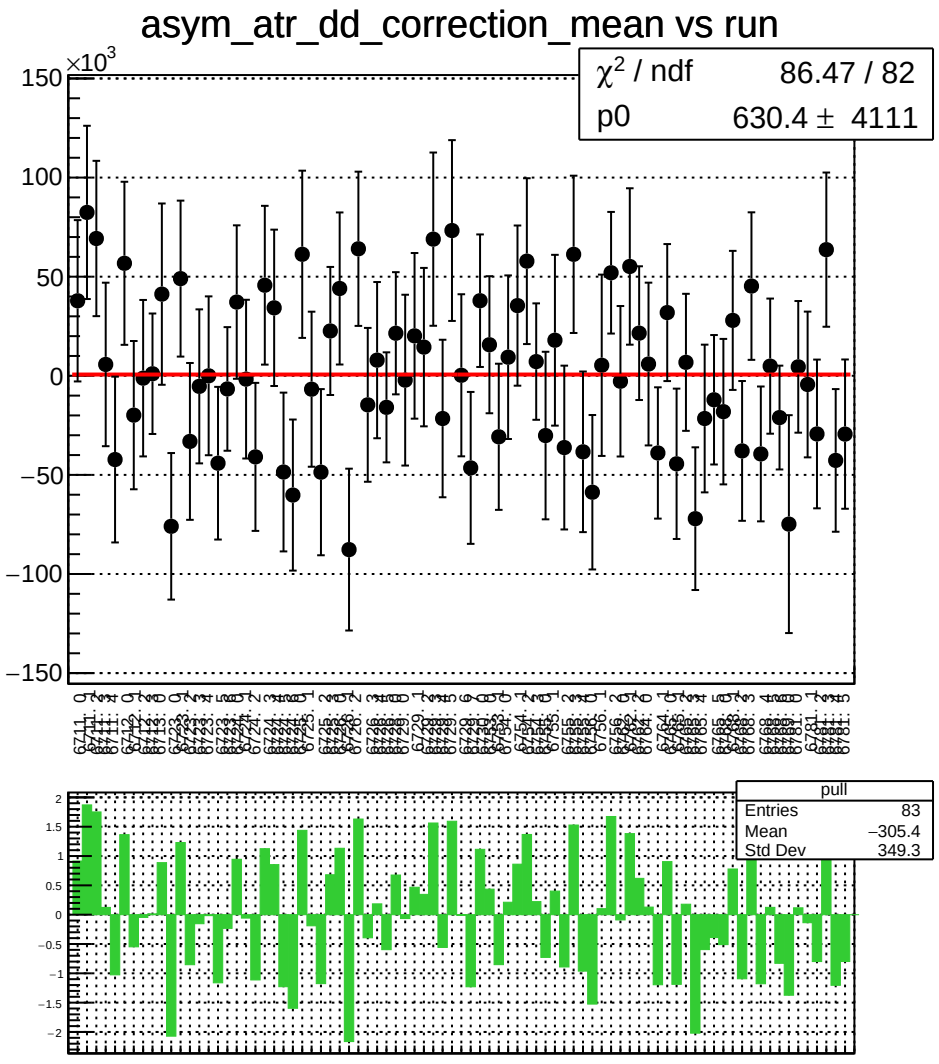

pull1D
Entries 83
Mean 0.004233
Std Dev 1.039
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

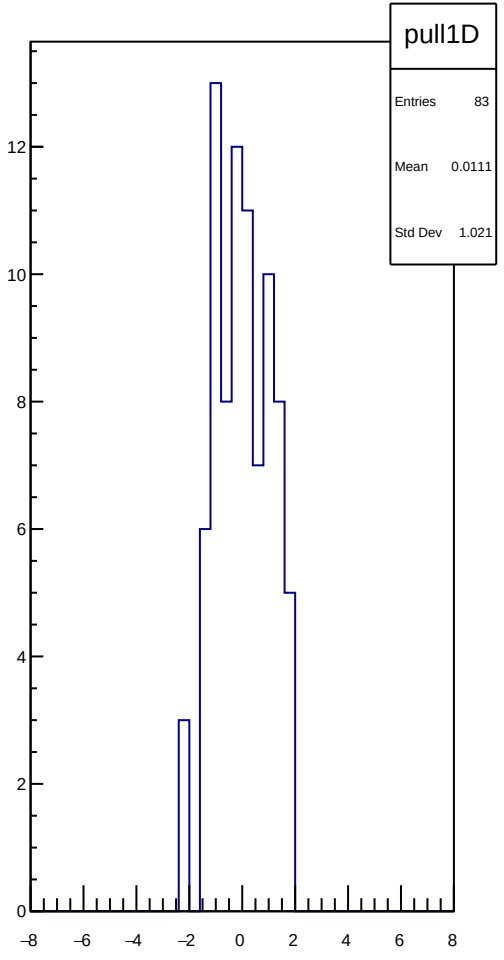

asym_atr_avg_rms vs run
χ^2 / ndf 1.217e+04 / 82
p0 4548 ± 3.571
6500
6000
5500
5000
4500
4000
3500

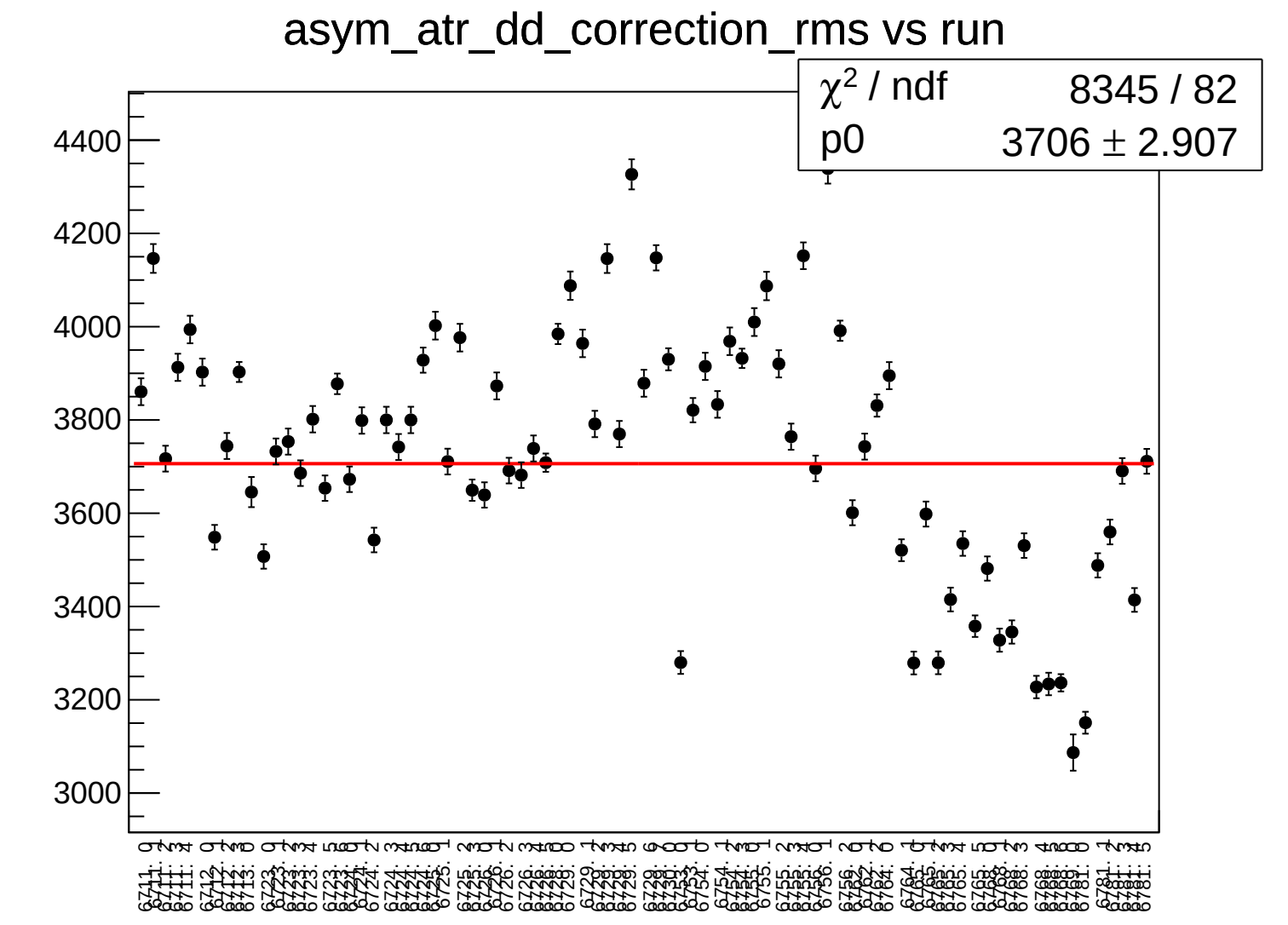

dit_asym_atr_dd_mean vs run
χ² / ndf 94.59 / 82
p0 −3638 ± 2113
×10³
pull
Entries 83
Mean −1136
Std Dev 1280

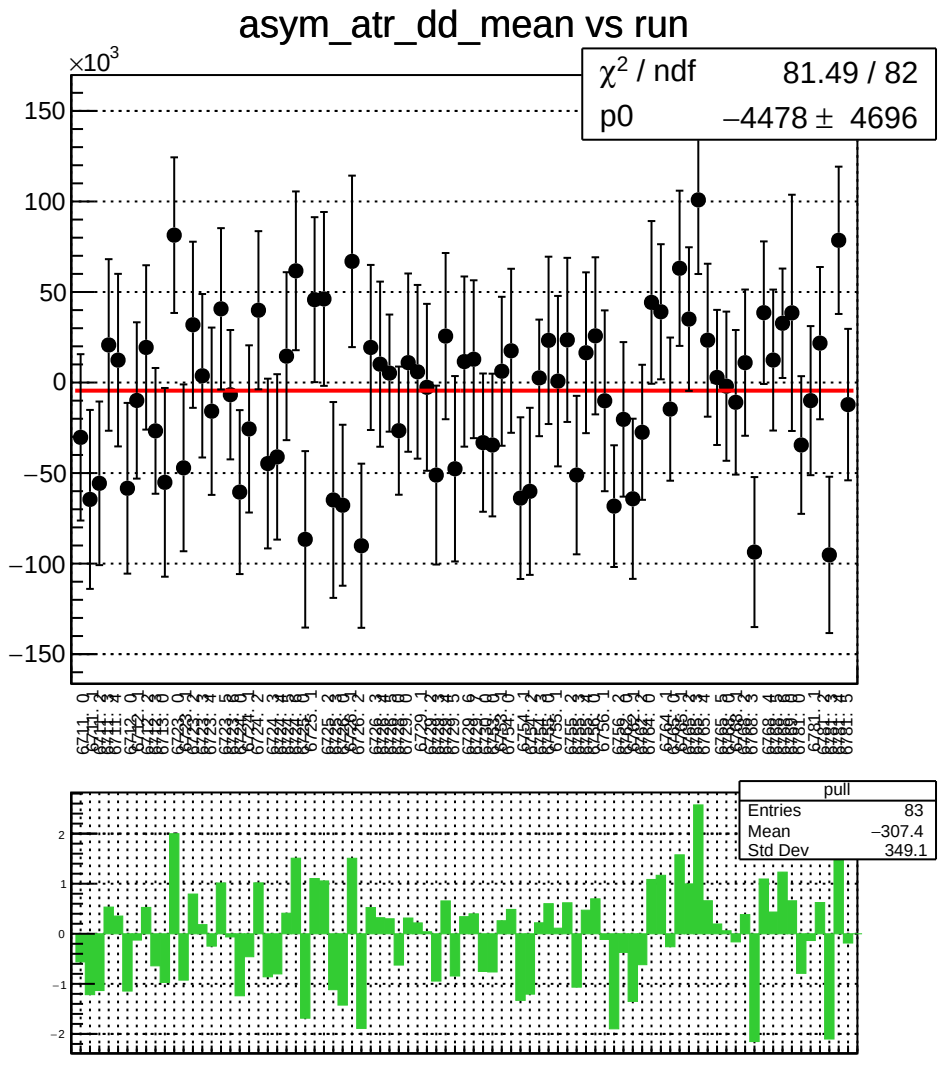

pull1D
Entries 83
Mean 0.0001398
Std Dev 1.068

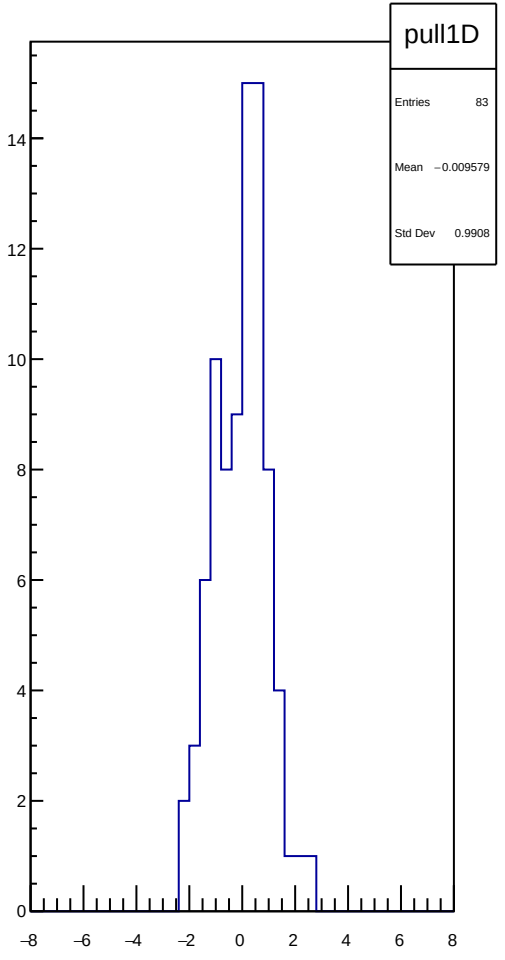

dit_asym_atr_dd_rms vs run
χ^2 / ndf 9991 / 82
p0 1904 ± 1.494
5000
4500
4000
3500
3000
2500
2000
1500

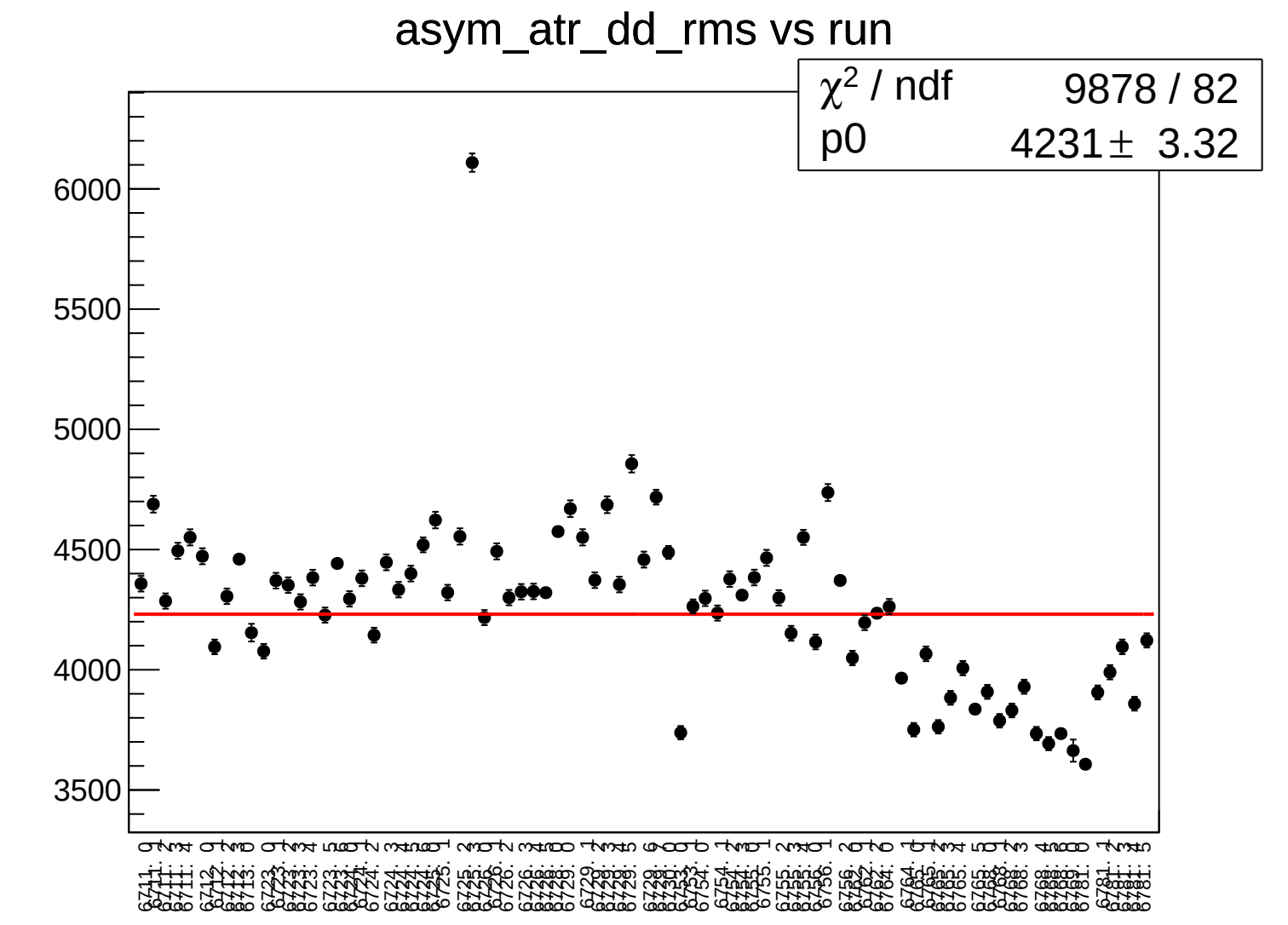

asym_atr_dd_correction_mean vs run
×10^3
χ^2 / ndf 86.47 / 82
p0 630.4 ± 4111
pull
Entries 83
Mean −305.4
Std Dev 349.3

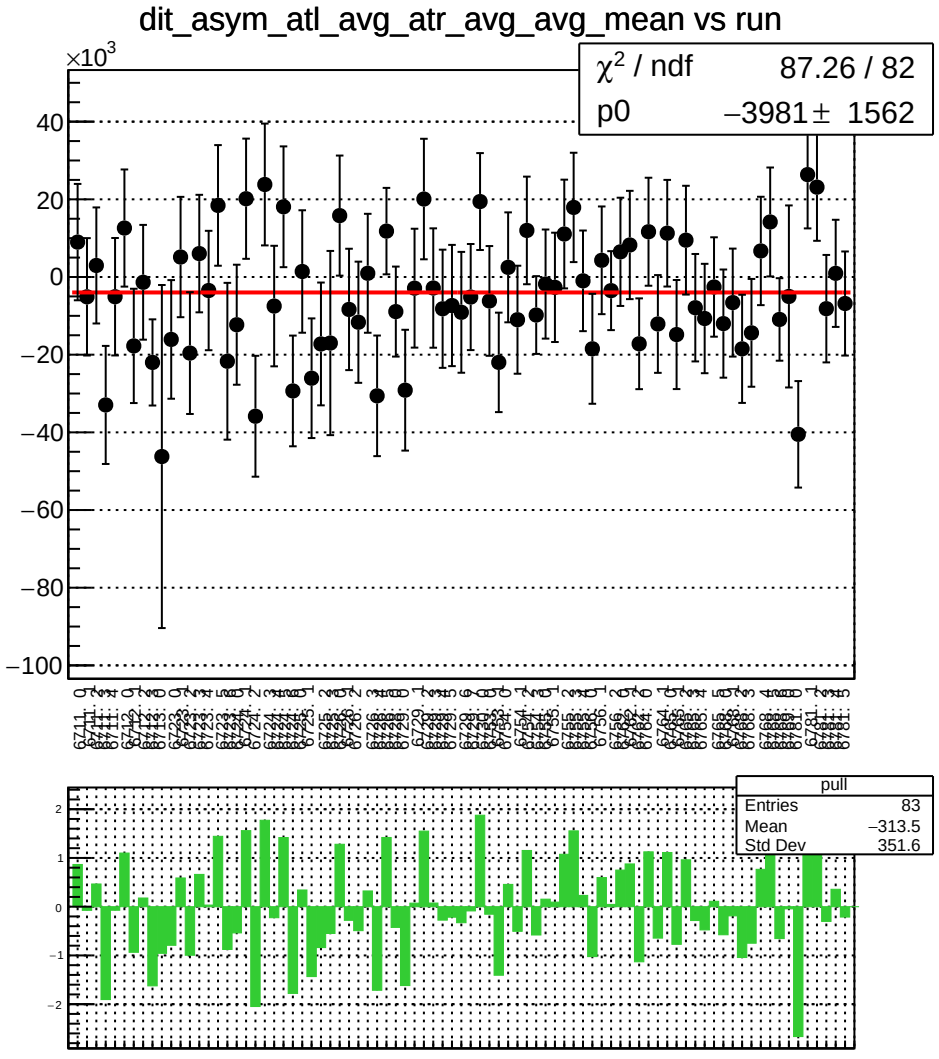

pull1D
Entries 83
Mean 0.0111
Std Dev 1.021

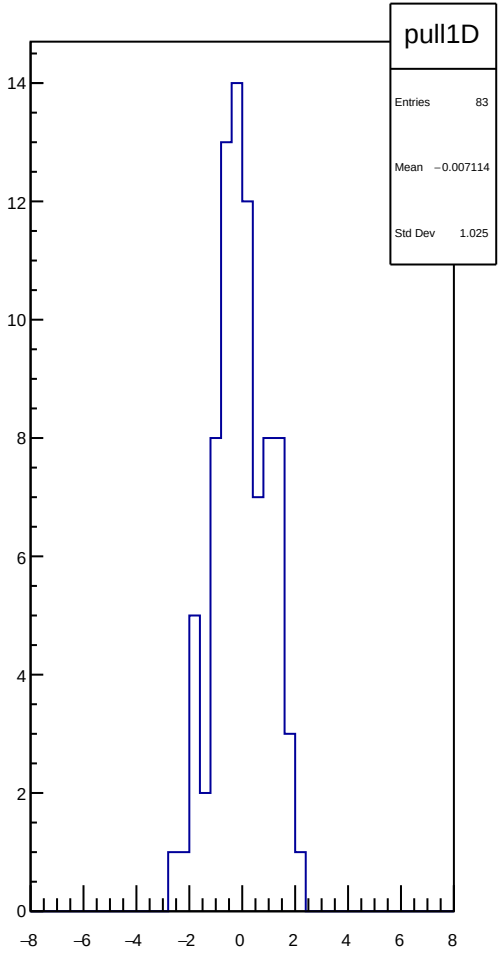

asym_atr_dd_correction_rms vs run
χ² / ndf 8345 / 82
p0 3706 ± 2.907
4400
4200
4000
3800
3600
3400
3200
3000

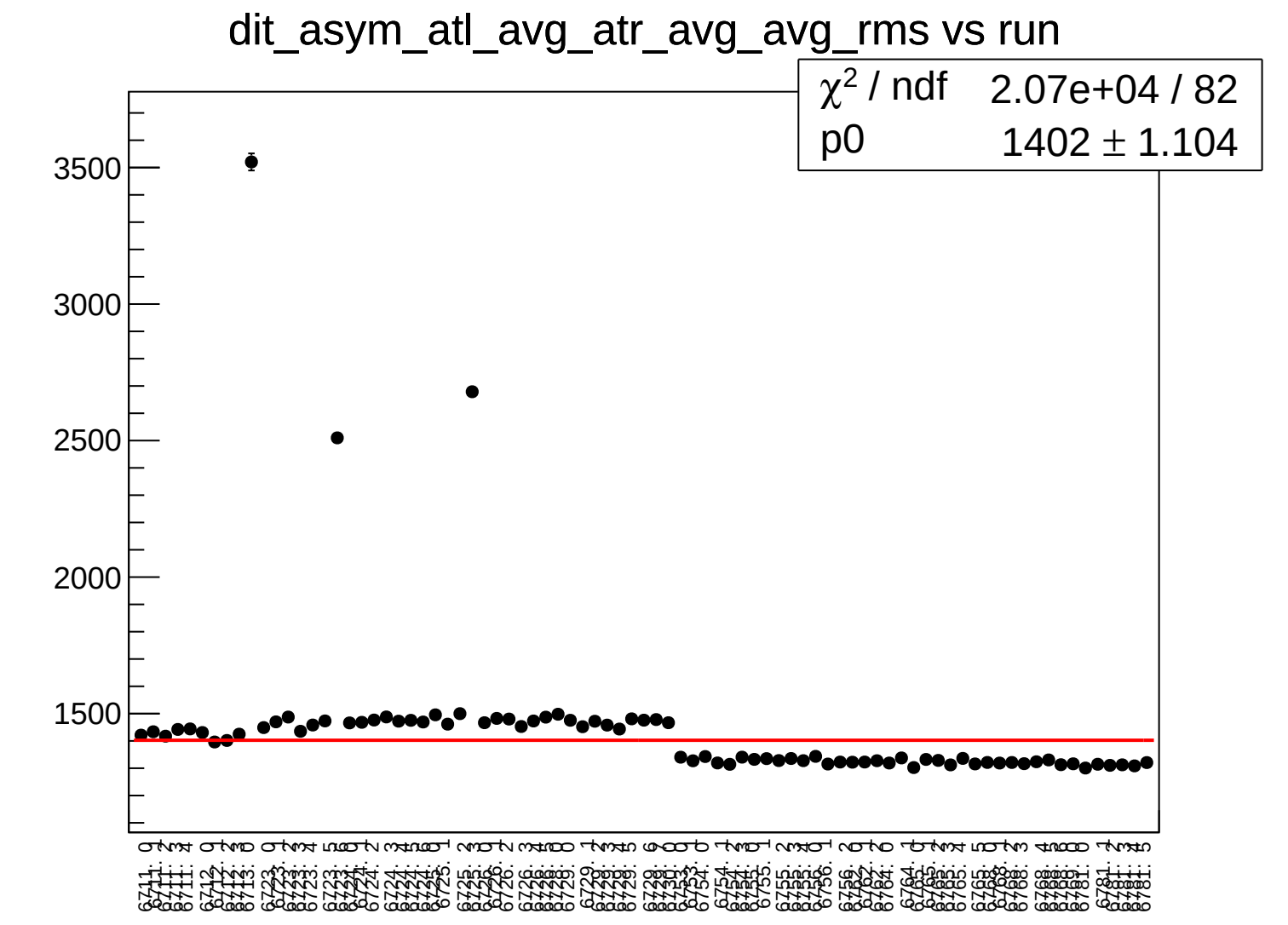

asym_atr_dd_mean vs run
×10^3
χ² / ndf 81.49 / 82
p0 −4478 ± 4696
150
100
50
0
−50
−100
−150
pull
Entries 83
Mean −307.4
Std Dev 349.1
2
1
0
−1
−2

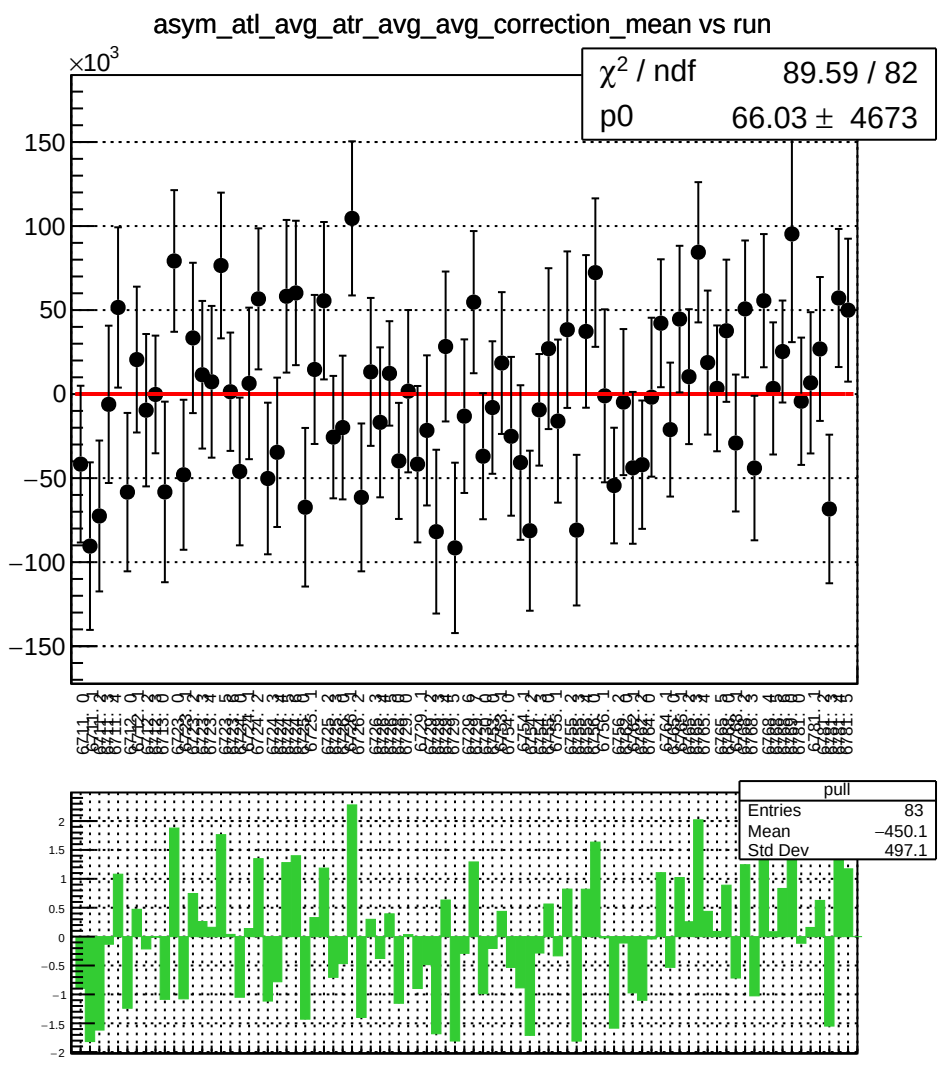

pull1D
Entries 83
Mean −0.009579
Std Dev 0.9908
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

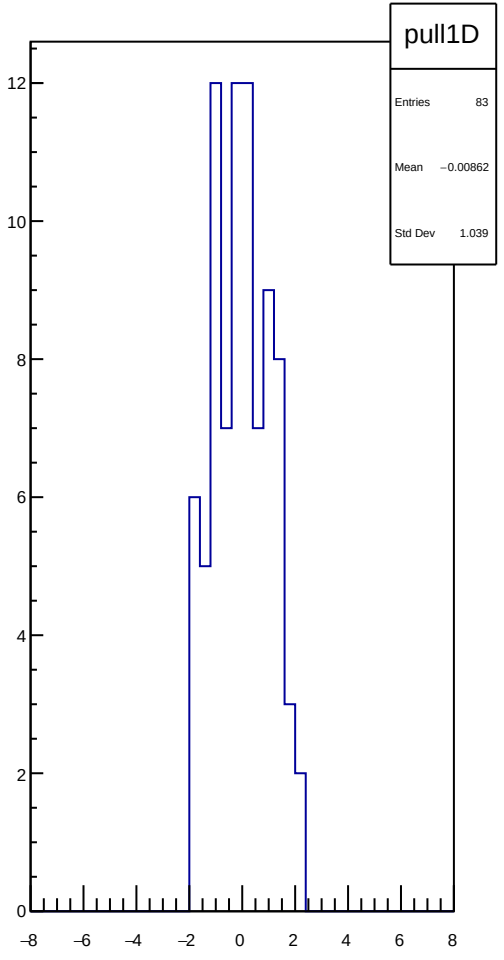

asym_atr_dd_rms vs run
χ² / ndf 9878 / 82
p0 4231 ± 3.32
6000
5500
5000
4500
4000
3500

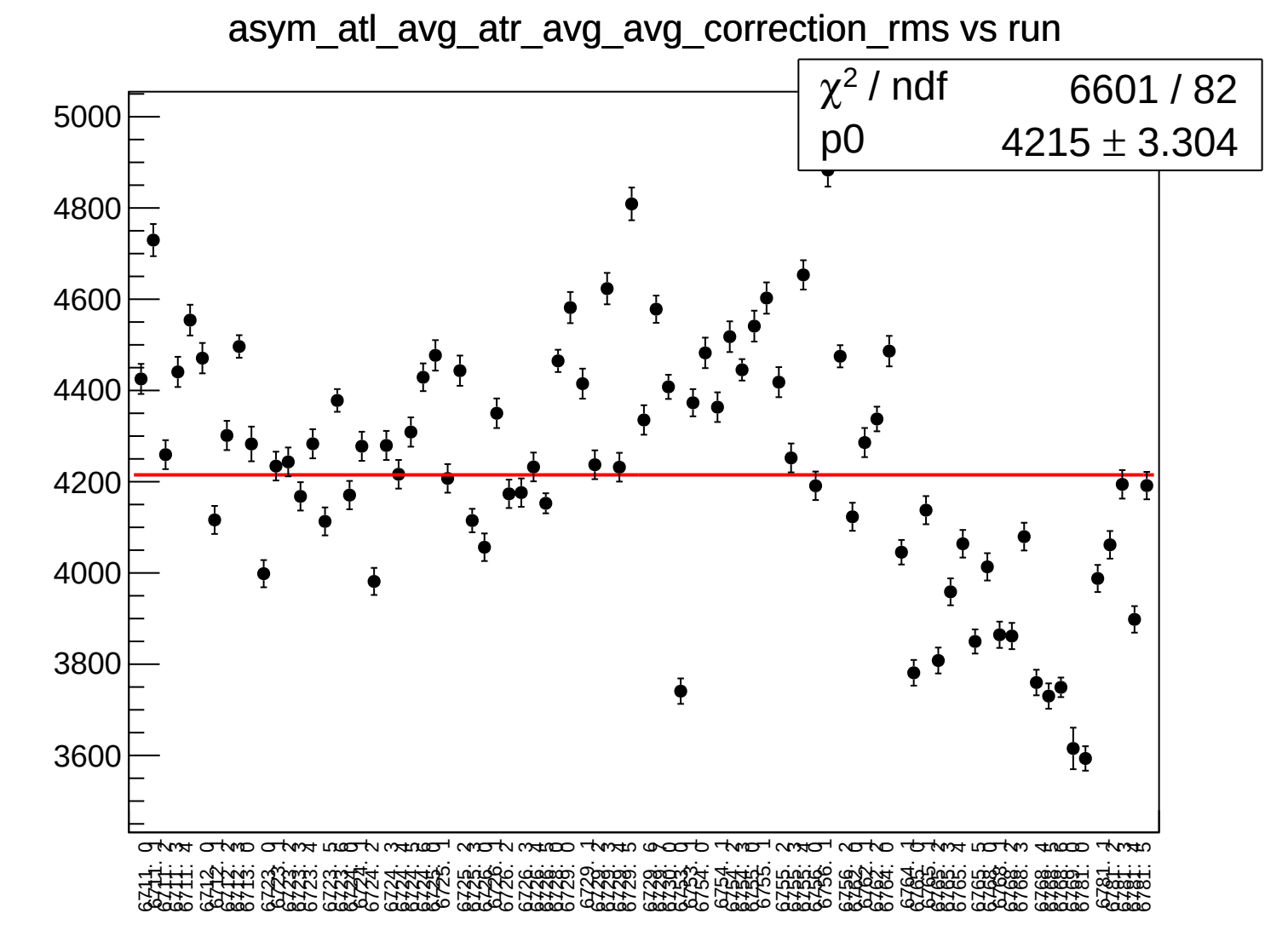

dit_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ^2 / ndf 87.26 / 82
p0 −3981 ± 1562
pull
Entries 83
Mean −313.5
Std Dev 351.6

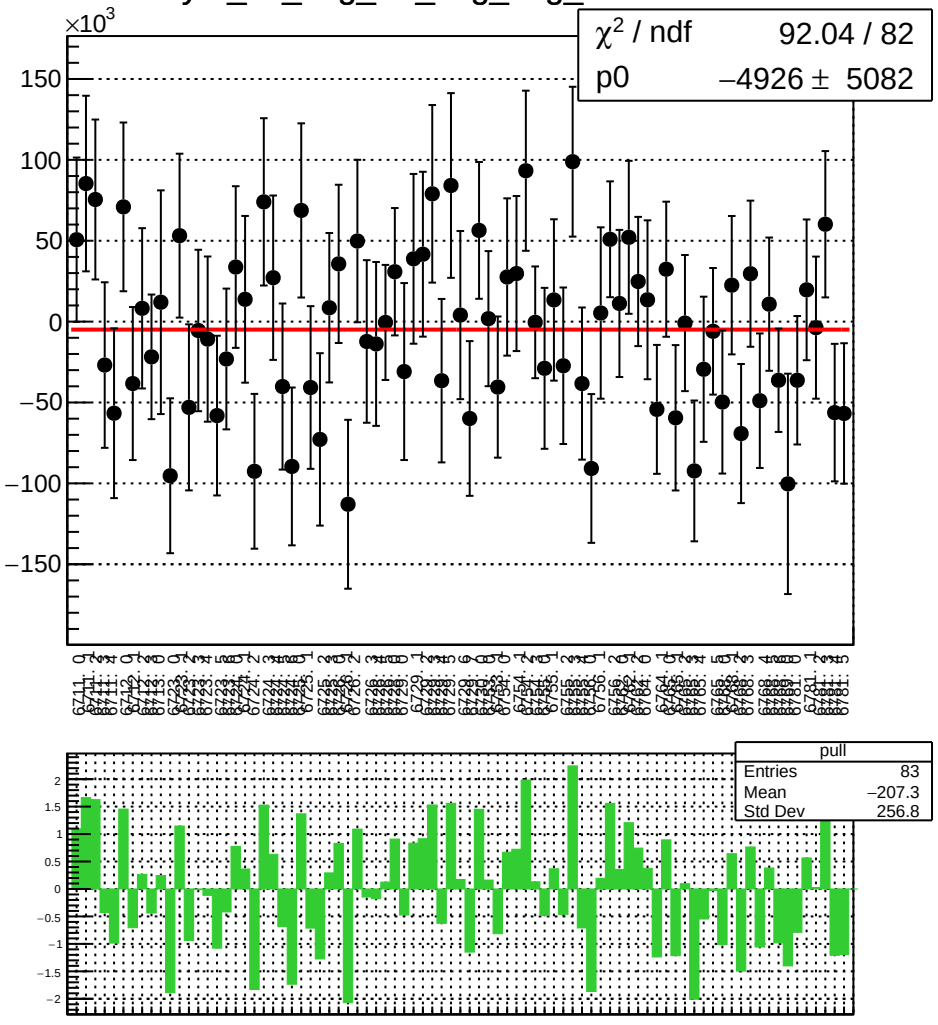

pull1D
Entries 83
Mean −0.007114
Std Dev 1.025

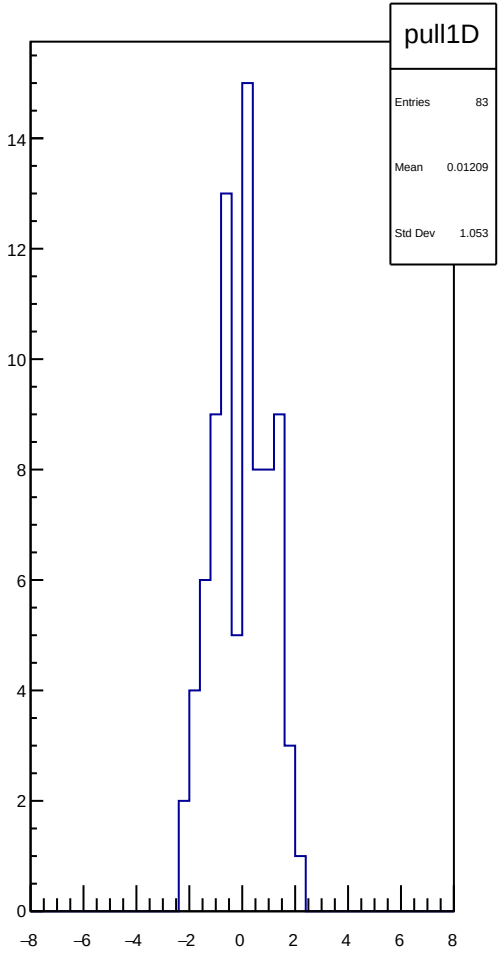

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2.07e+04 / 82
p0 1402 ± 1.104
3500
3000
2500
2000
1500

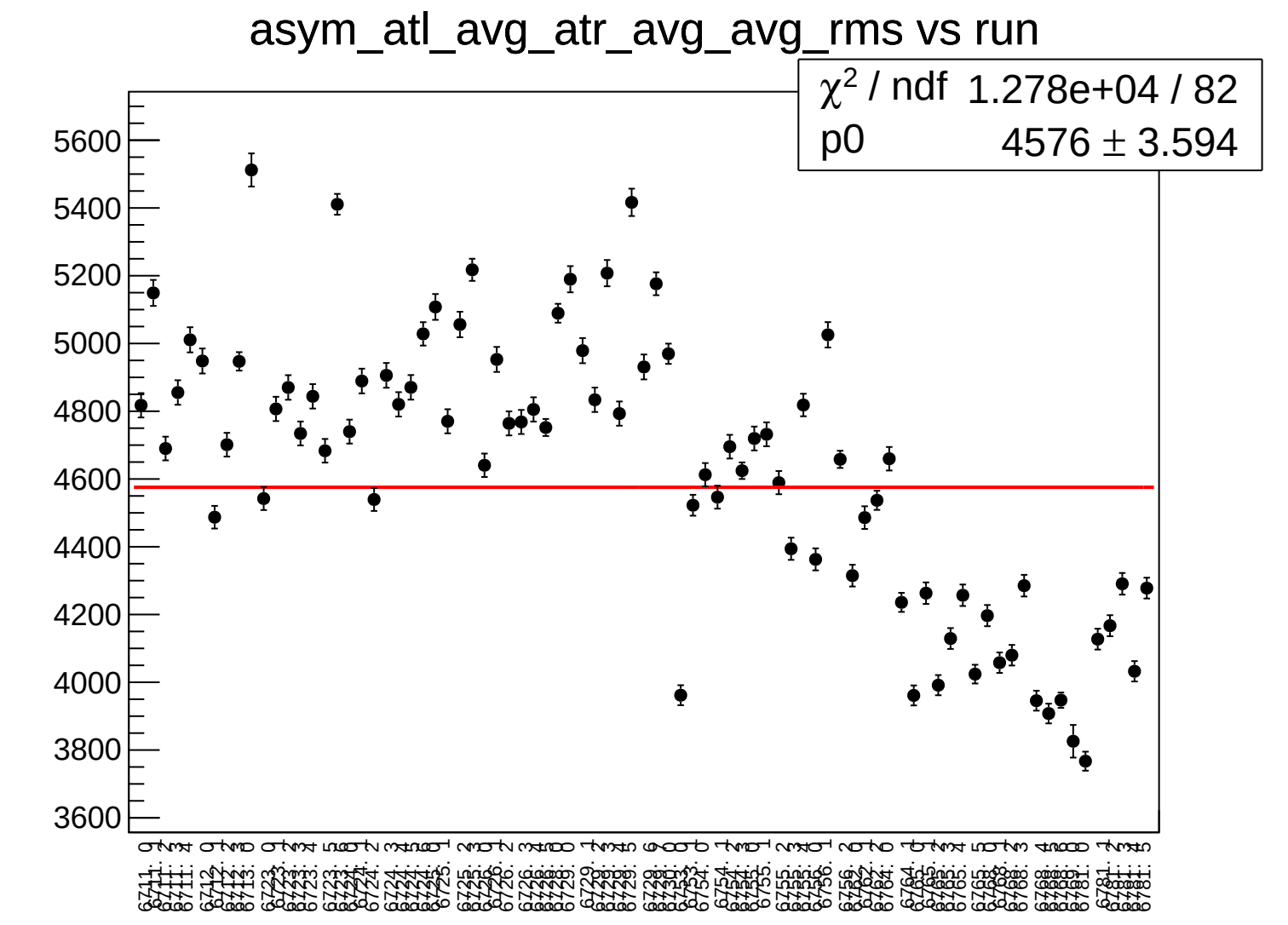

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 89.59 / 82
p0 66.03 ± 4673
150
100
50
0
−50
−100
−150
pull
Entries 83
Mean −450.1
Std Dev 497.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

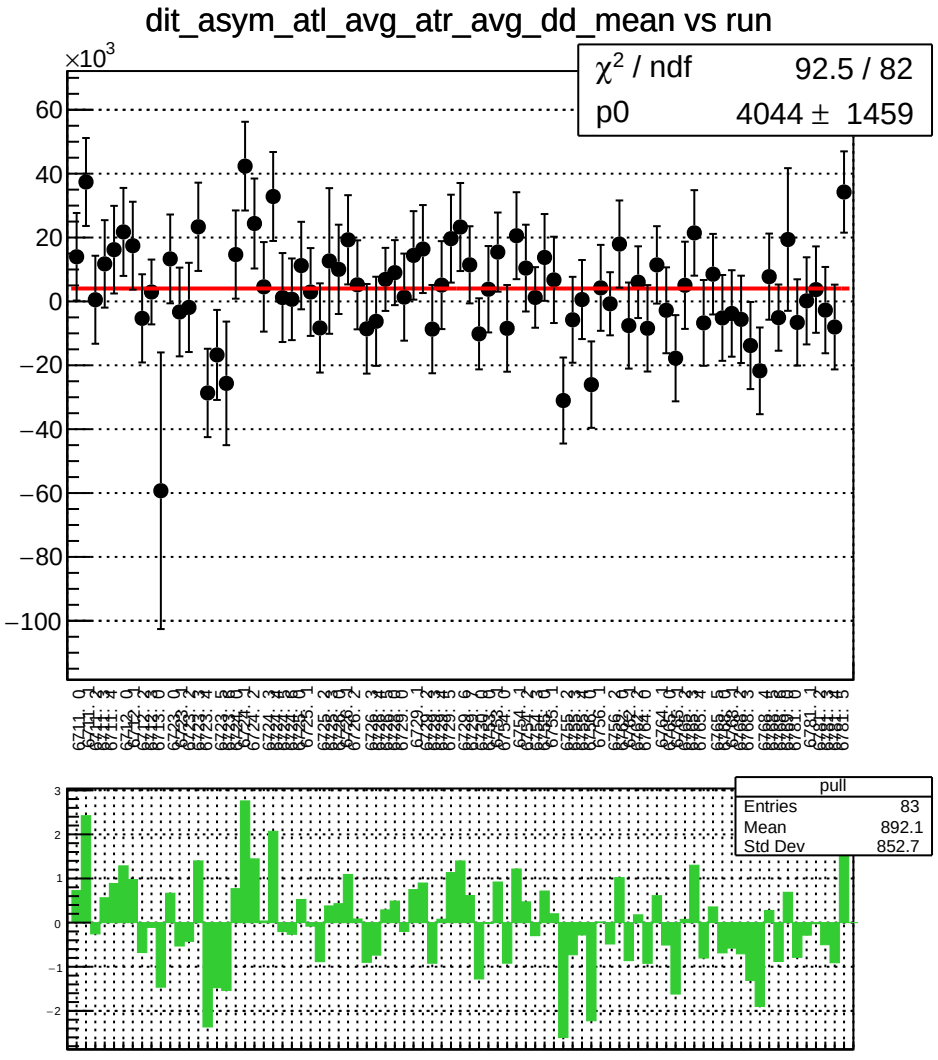

pull1D
Entries 83
Mean −0.00862
Std Dev 1.039
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

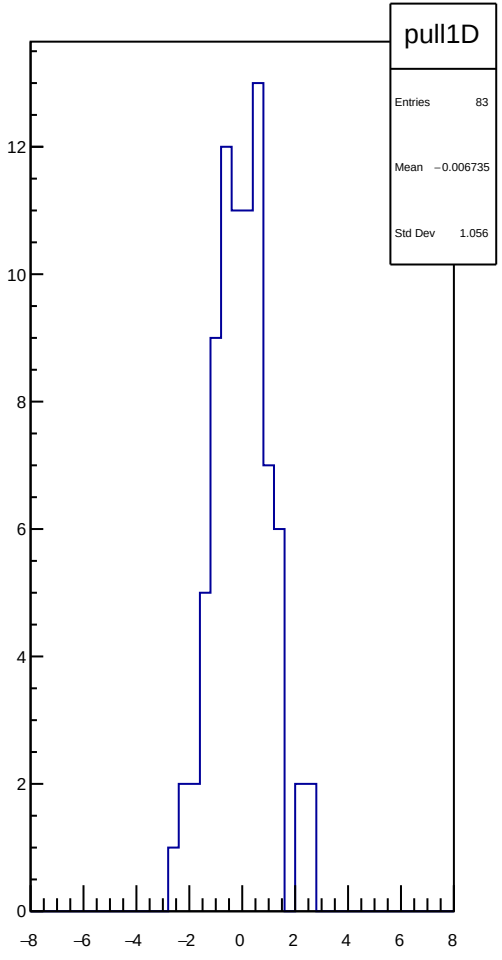

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 6601 / 82
p0 4215 ± 3.304
5000
4800
4600
4400
4200
4000
3800
3600

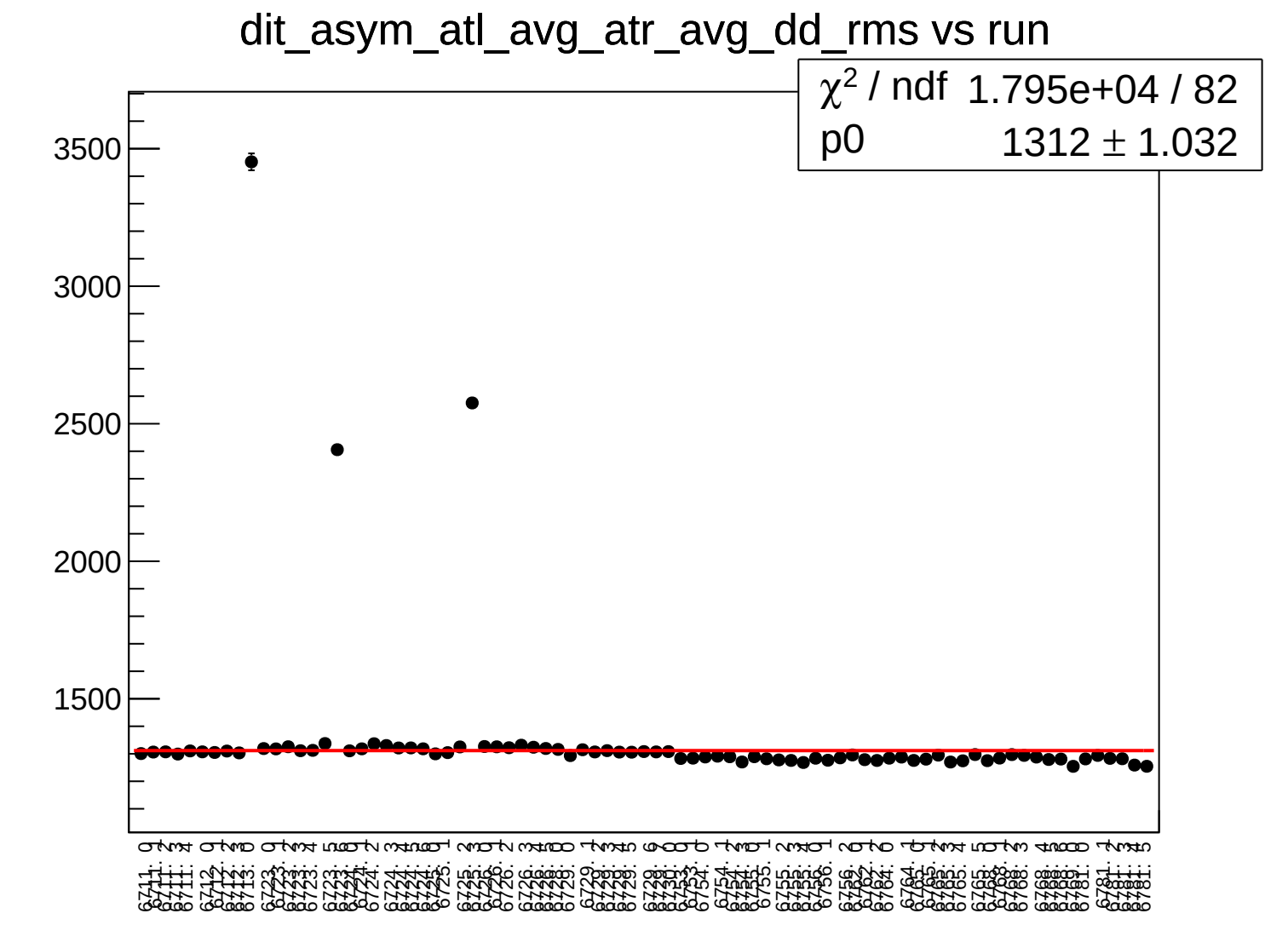

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 92.04 / 82
p0 −4926 ± 5082
pull
Entries 83
Mean −207.3
Std Dev 256.8

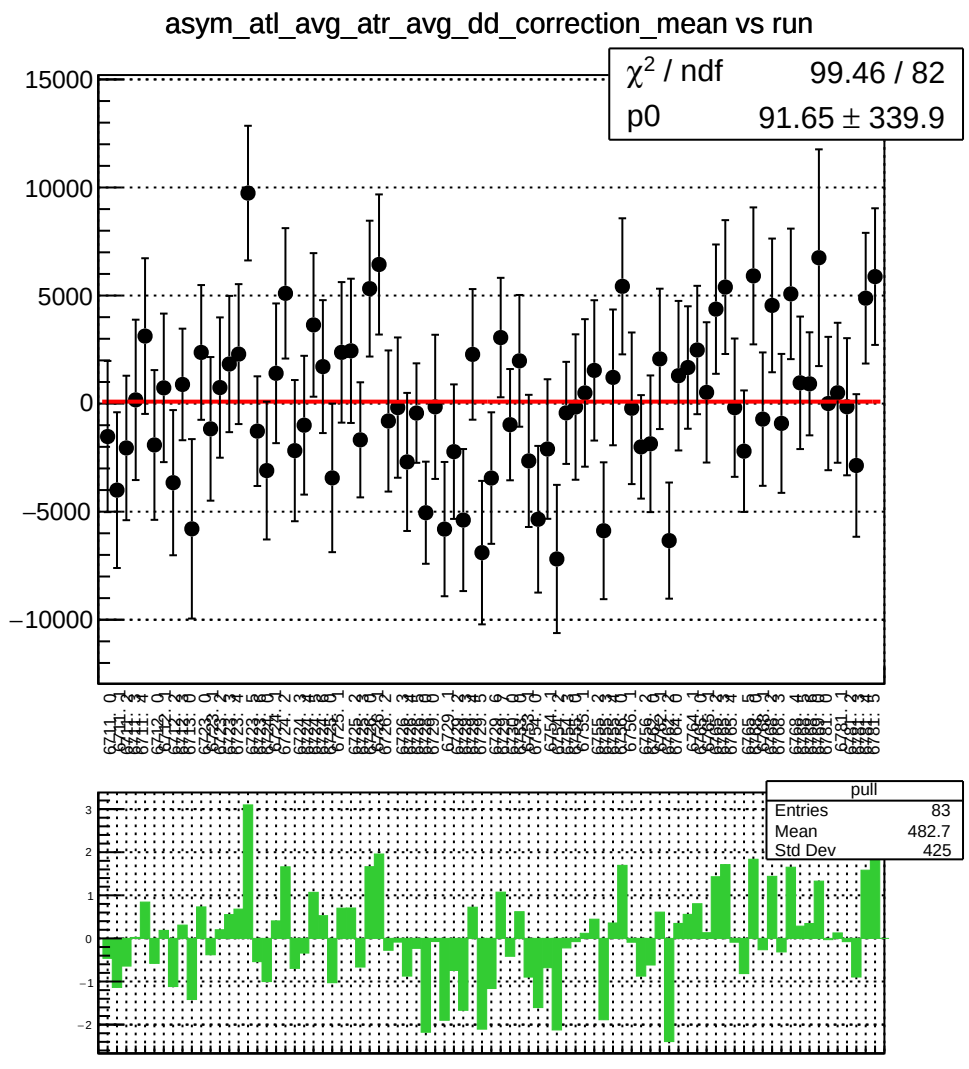

pull1D
Entries 83
Mean 0.01209
Std Dev 1.053

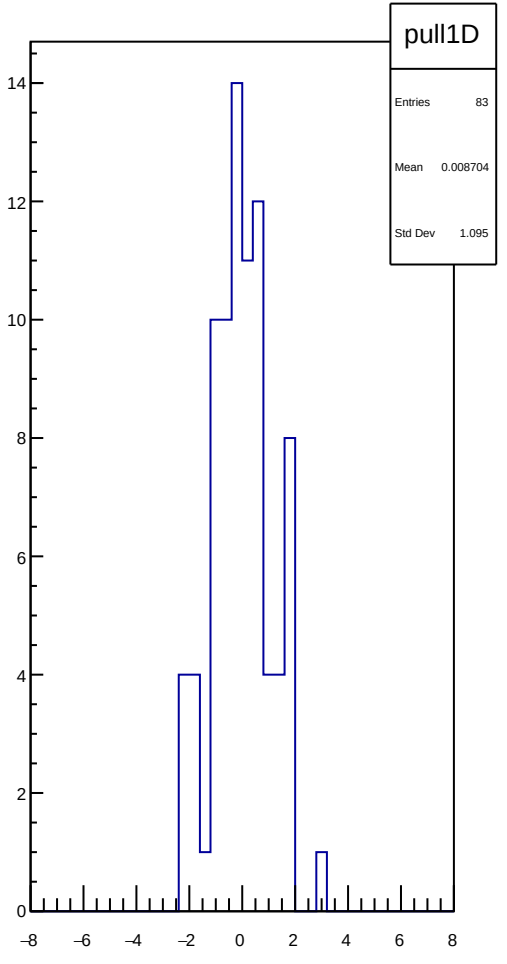

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.278e+04 / 82
p0 4576 ± 3.594
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

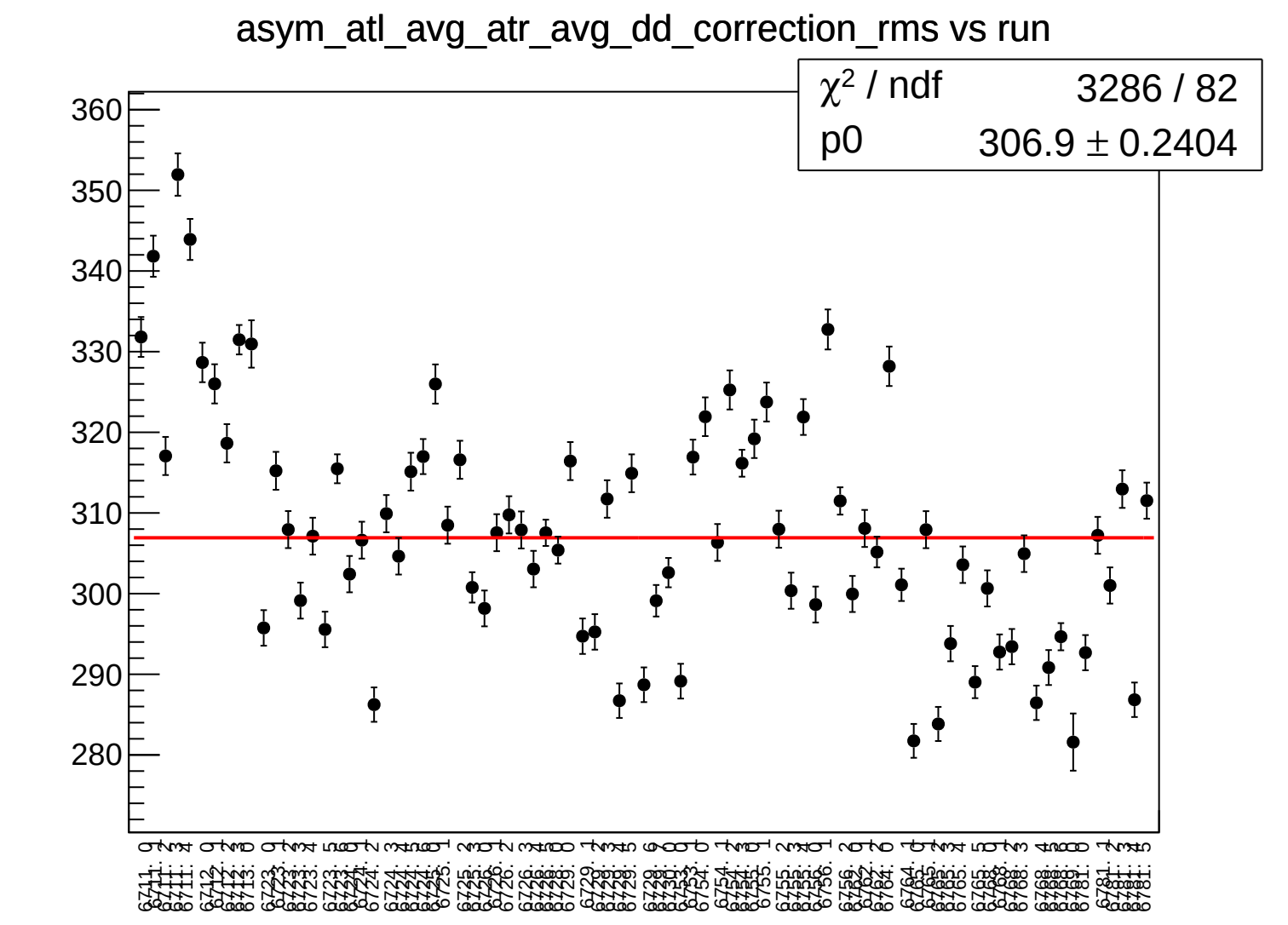

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ^2 / ndf 92.5 / 82
p0 4044 ± 1459
×10^3
pull
Entries 83
Mean 892.1
Std Dev 852.7

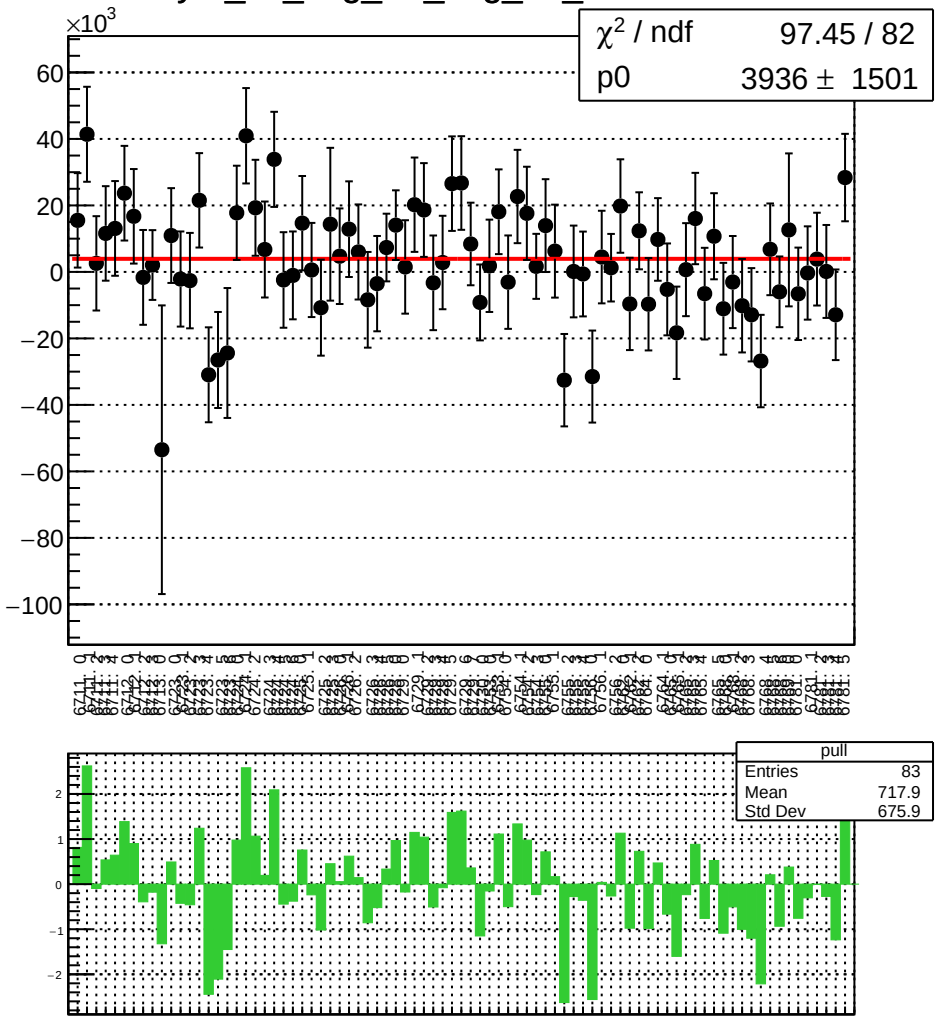

pull1D
Entries 83
Mean −0.006735
Std Dev 1.056

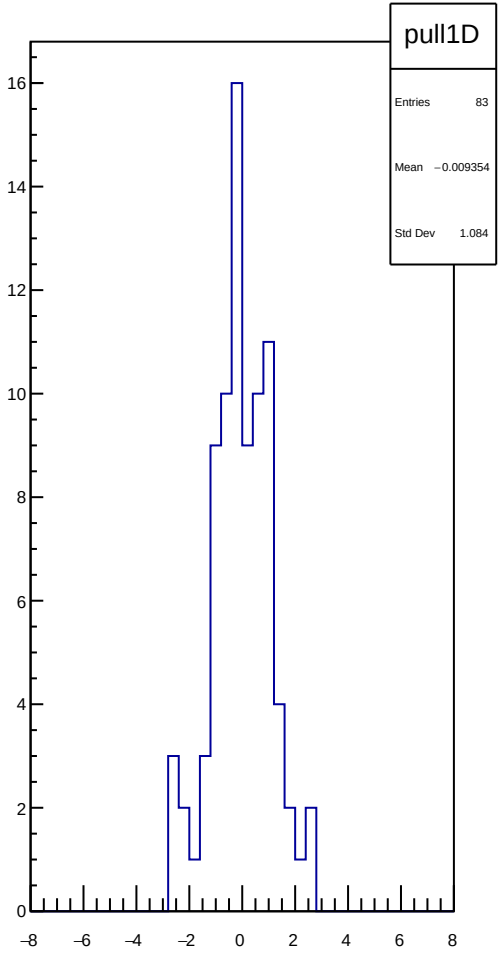

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.795e+04 / 82
p0 1312 ± 1.032
3500
3000
2500
2000
1500

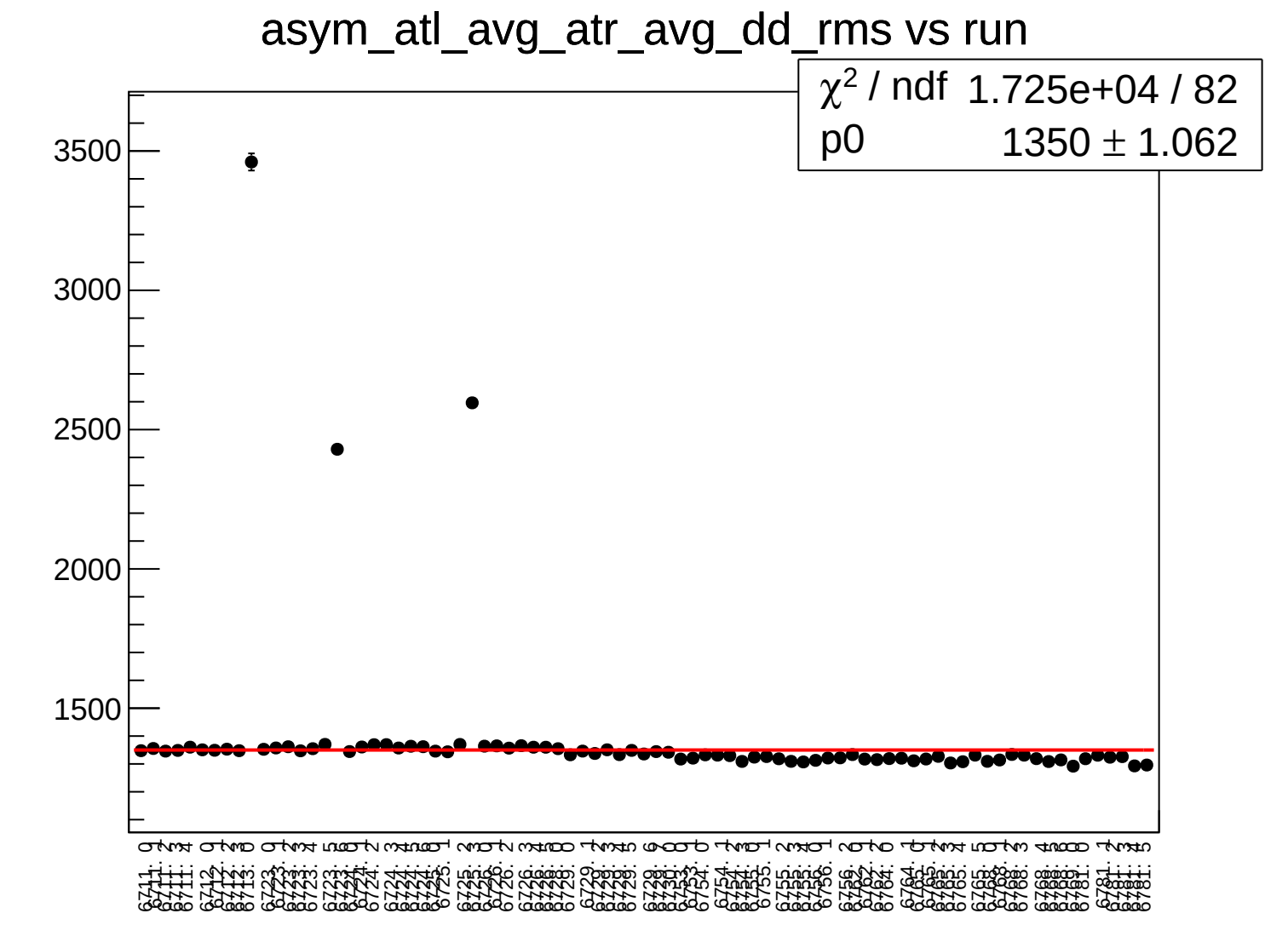

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 99.46 / 82
p0 91.65 ± 339.9
15000
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 482.7
Std Dev 425
3
2
1
0
−1
−2

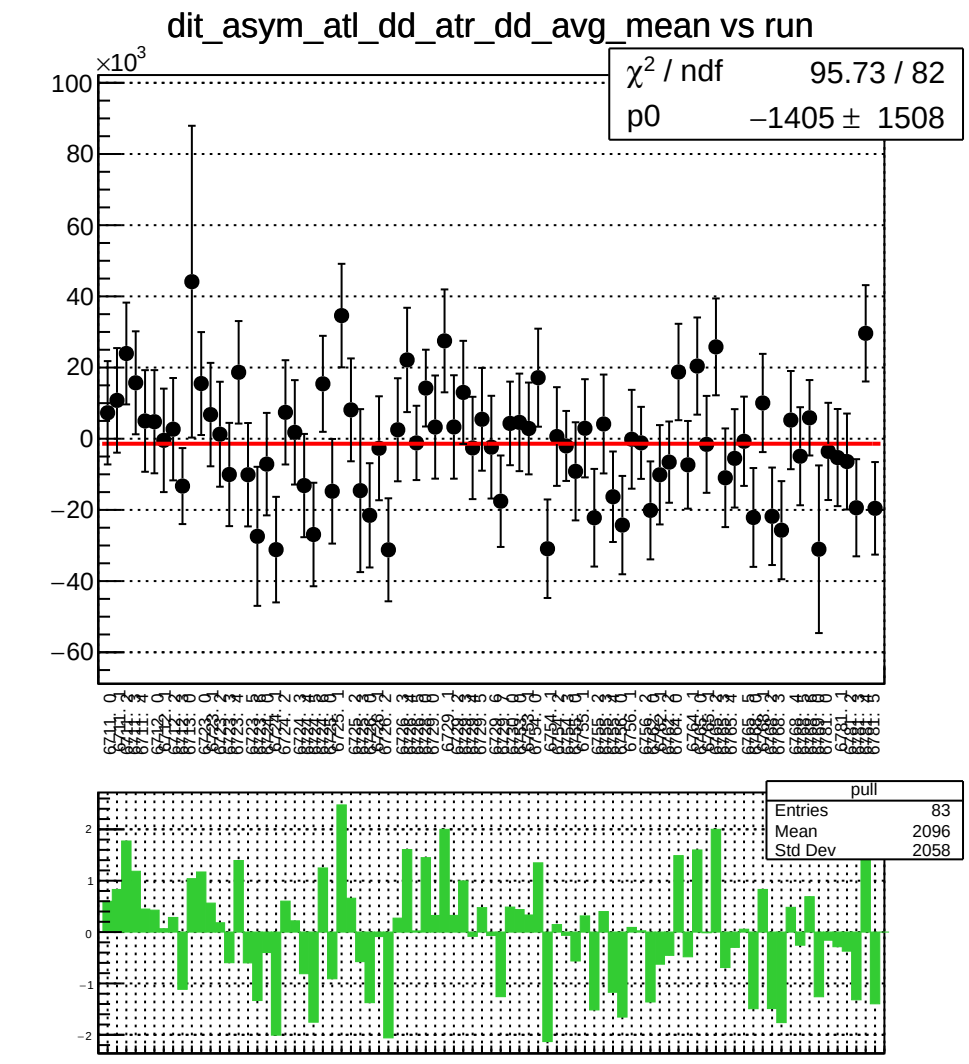

pull1D
Entries 83
Mean 0.008704
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

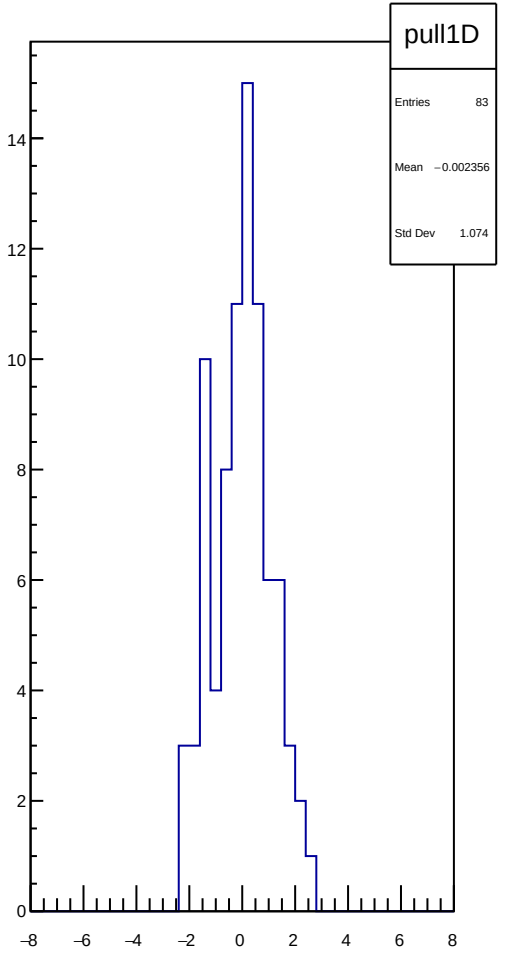

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 3286 / 82
p0 306.9 ± 0.2404
360
350
340
330
320
310
300
290
280

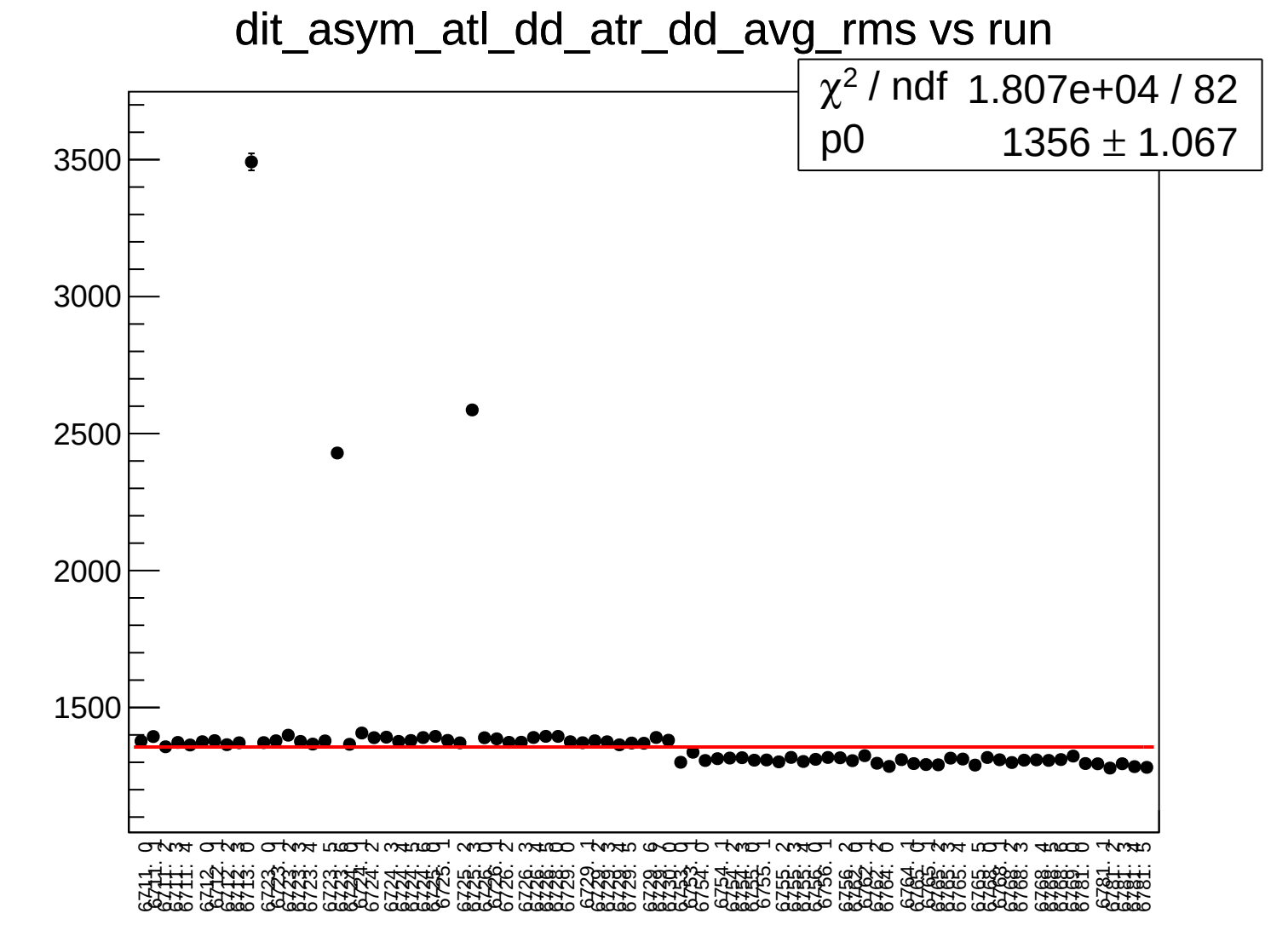

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 97.45 / 82
p0 3936 ± 1501
pull
Entries 83
Mean 717.9
Std Dev 675.9

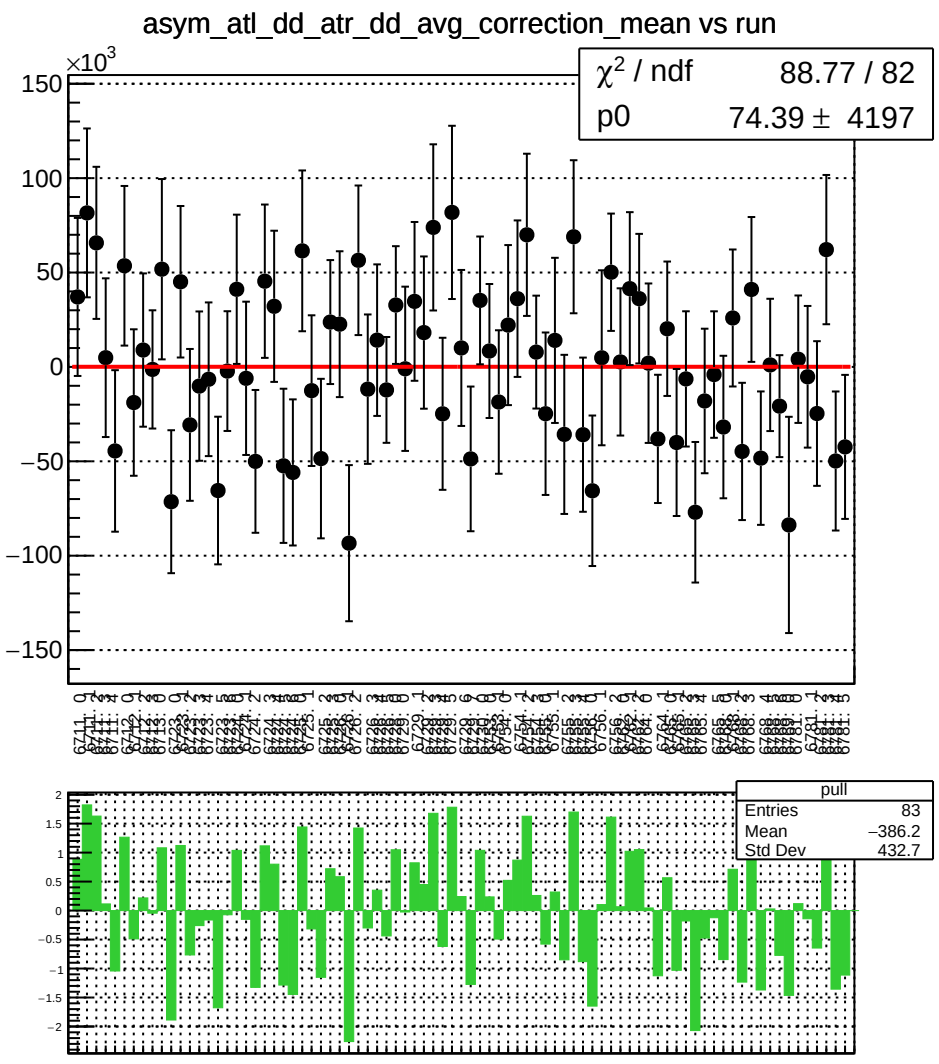

pull1D
Entries 83
Mean −0.009354
Std Dev 1.084

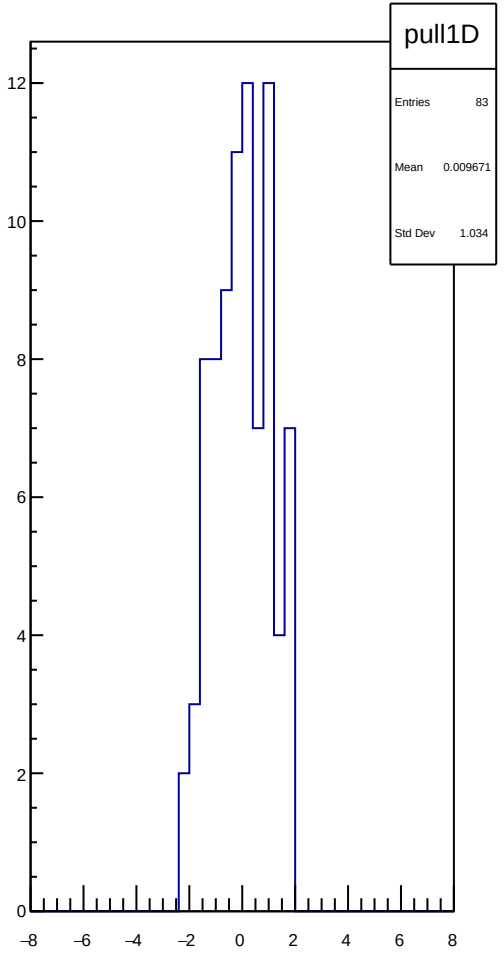

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.725e+04 / 82
p0 1350 ± 1.062
3500
3000
2500
2000
1500

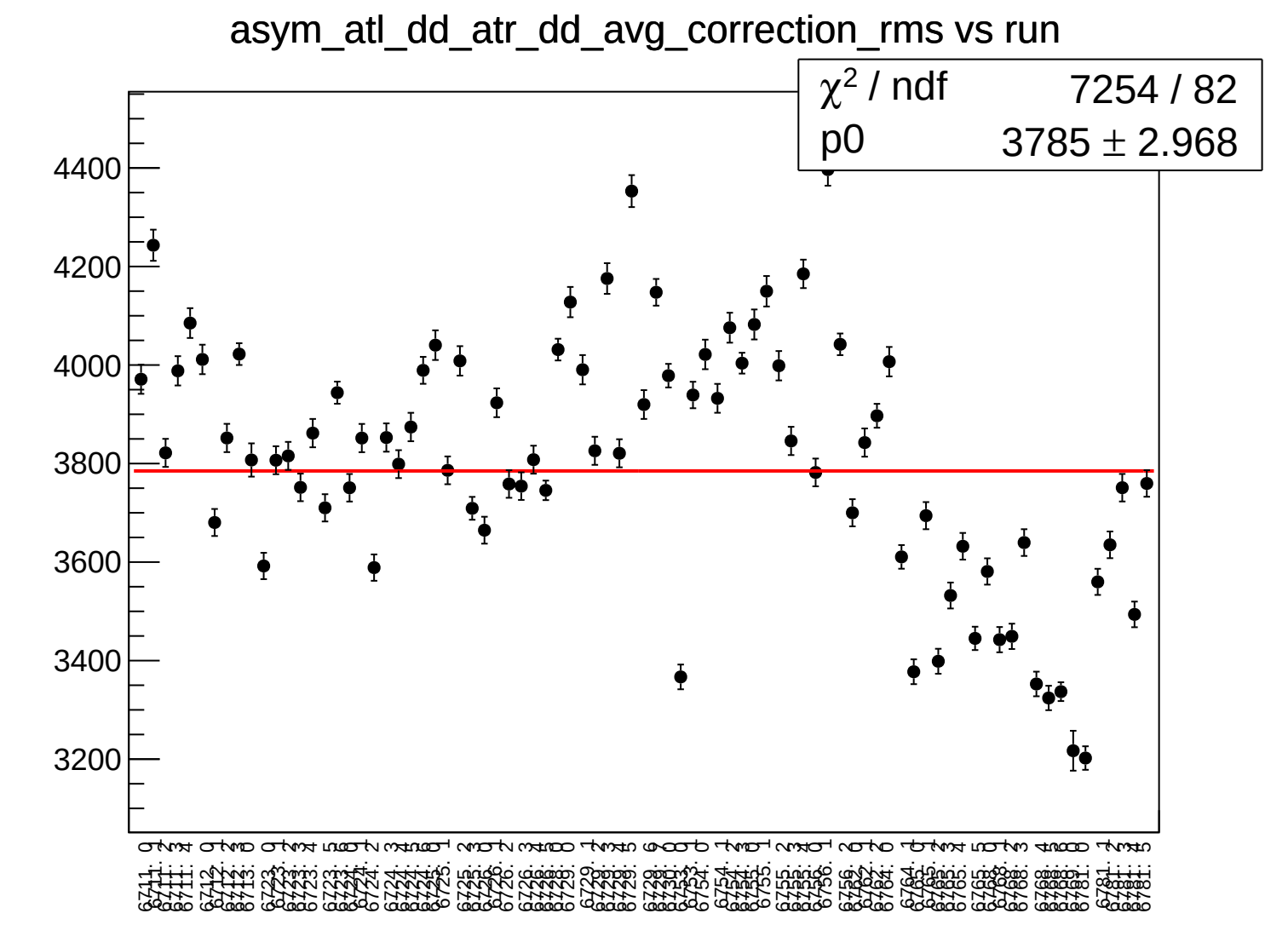

dit_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 95.73 / 82
p0 −1405 ± 1508
pull
Entries 83
Mean 2096
Std Dev 2058

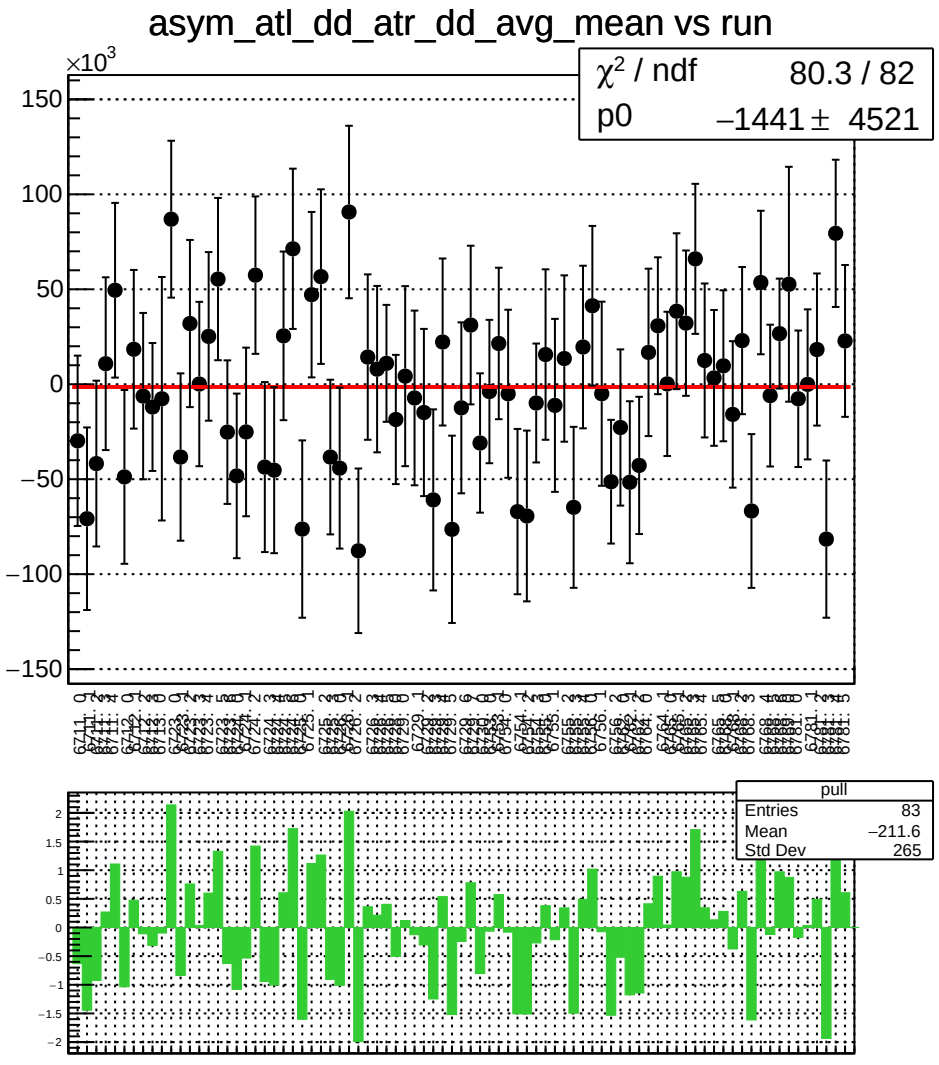

pull1D
Entries 83
Mean −0.002356
Std Dev 1.074

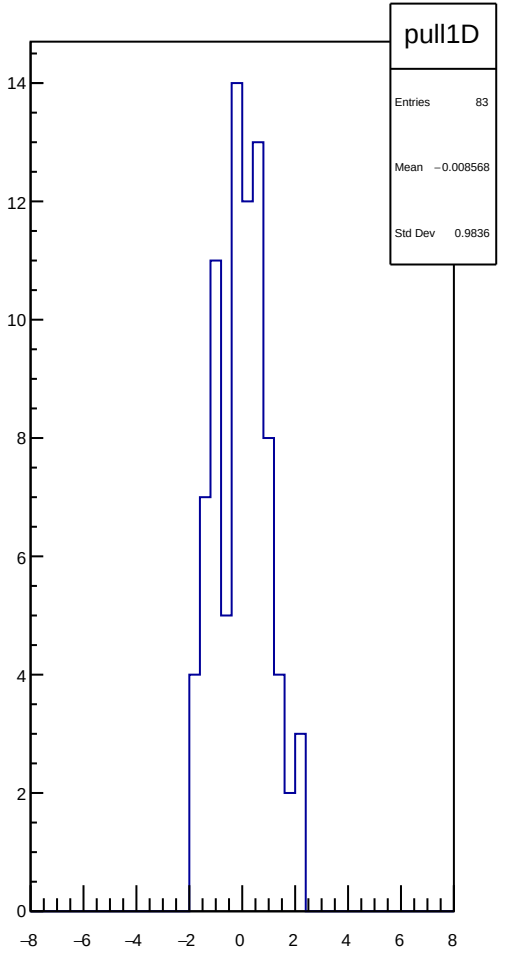

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.807e+04 / 82
p0 1356 ± 1.067
3500
3000
2500
2000
1500


asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 88.77 / 82
p0 74.39 ± 4197
pull
Entries 83
Mean −386.2
Std Dev 432.7

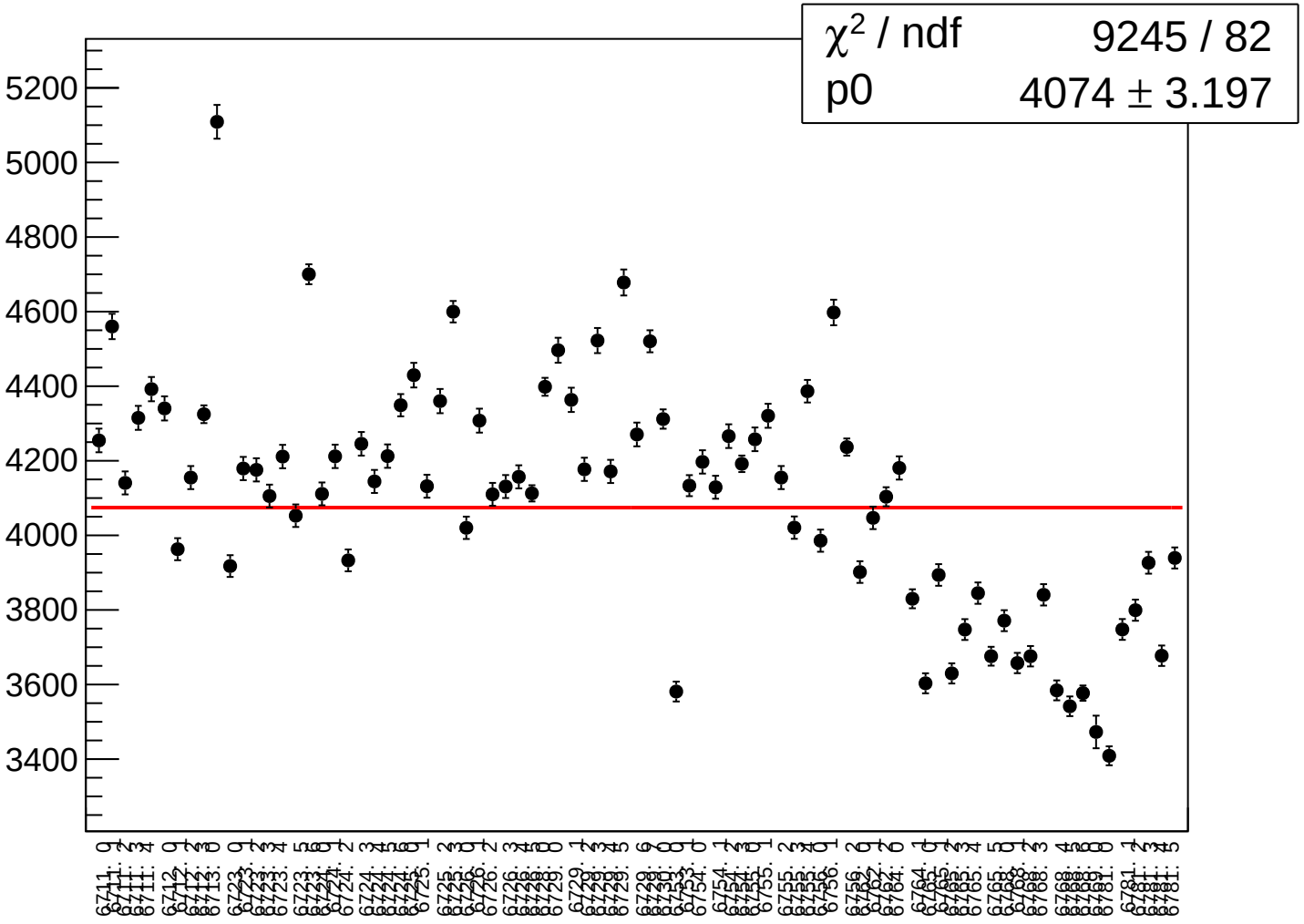

pull1D
Entries 83
Mean 0.009671
Std Dev 1.034

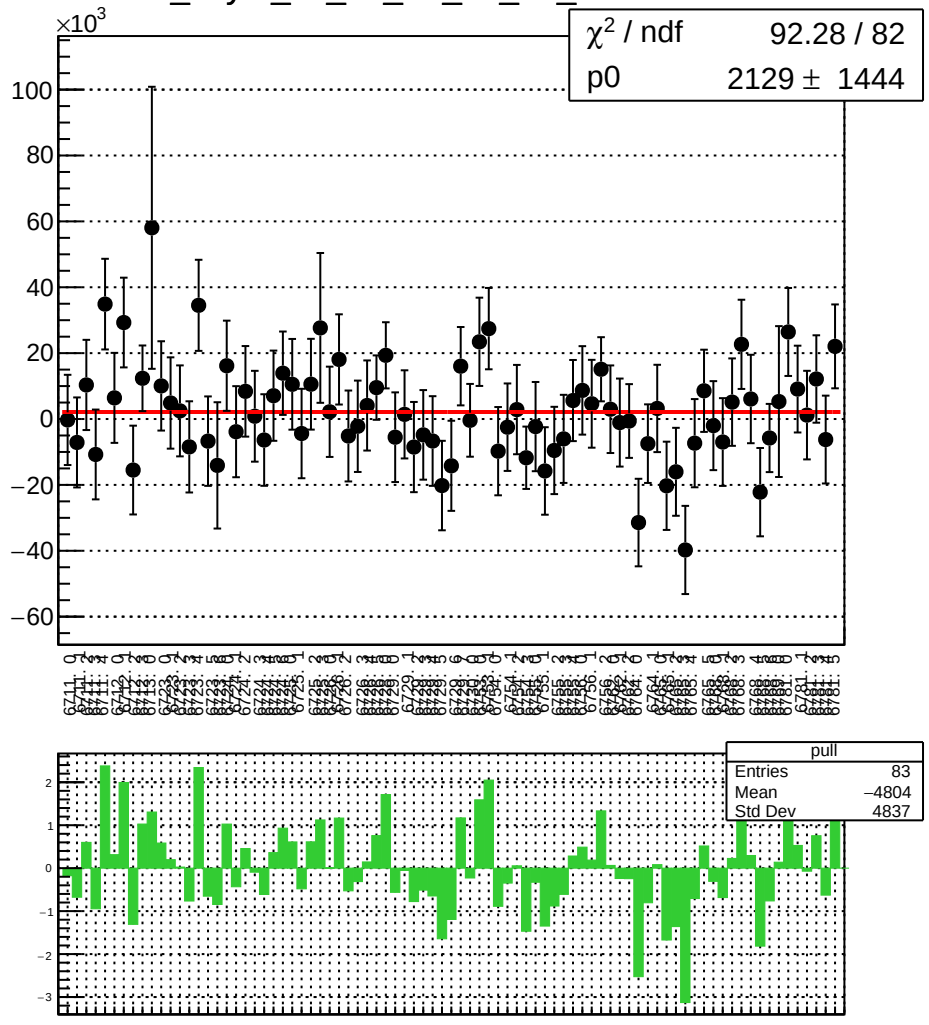

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 7254 / 82
p0 3785 ± 2.968
4400
4200
4000
3800
3600
3400
3200

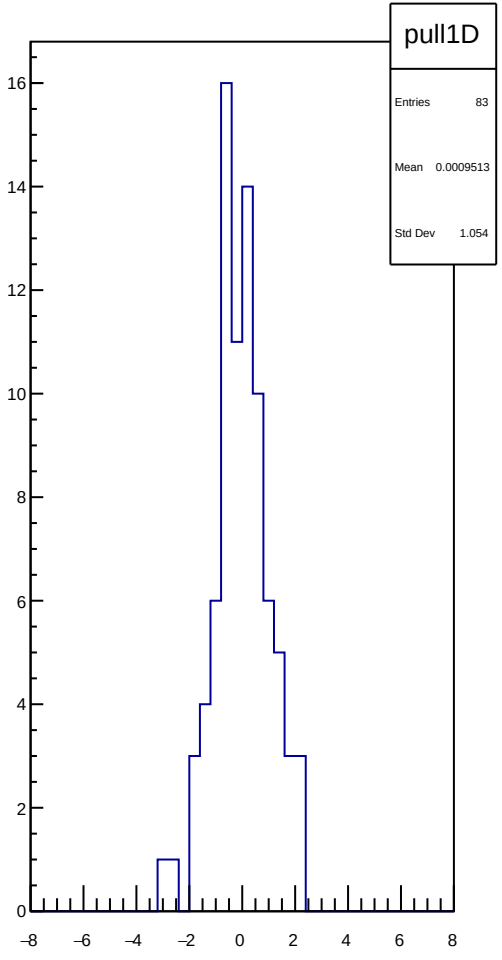

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 80.3 / 82
p0 −1441 ± 4521
150
100
50
0
−50
−100
−150
pull
Entries 83
Mean −211.6
Std Dev 265
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

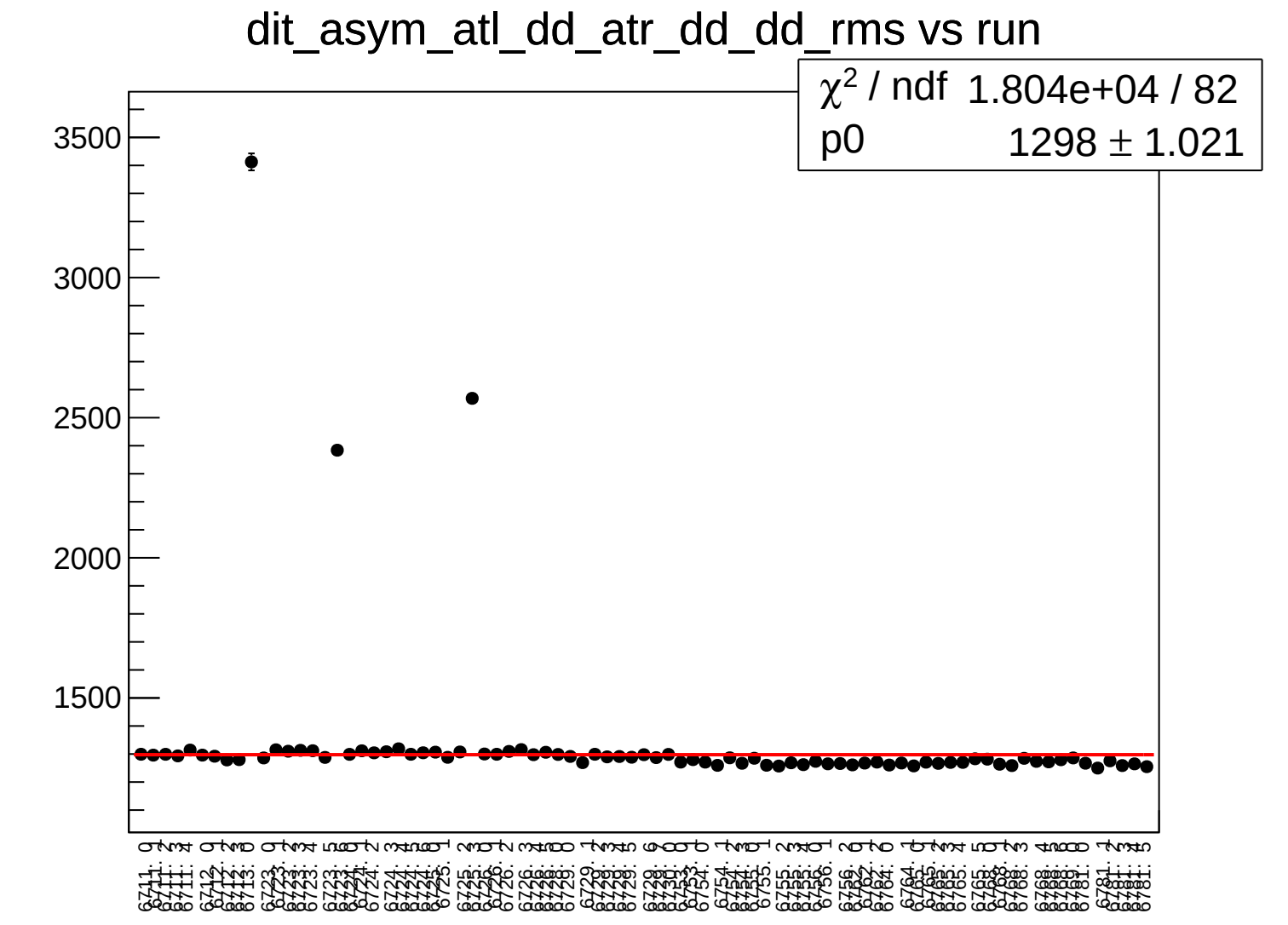

pull1D
Entries 83
Mean −0.008568
Std Dev 0.9836
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

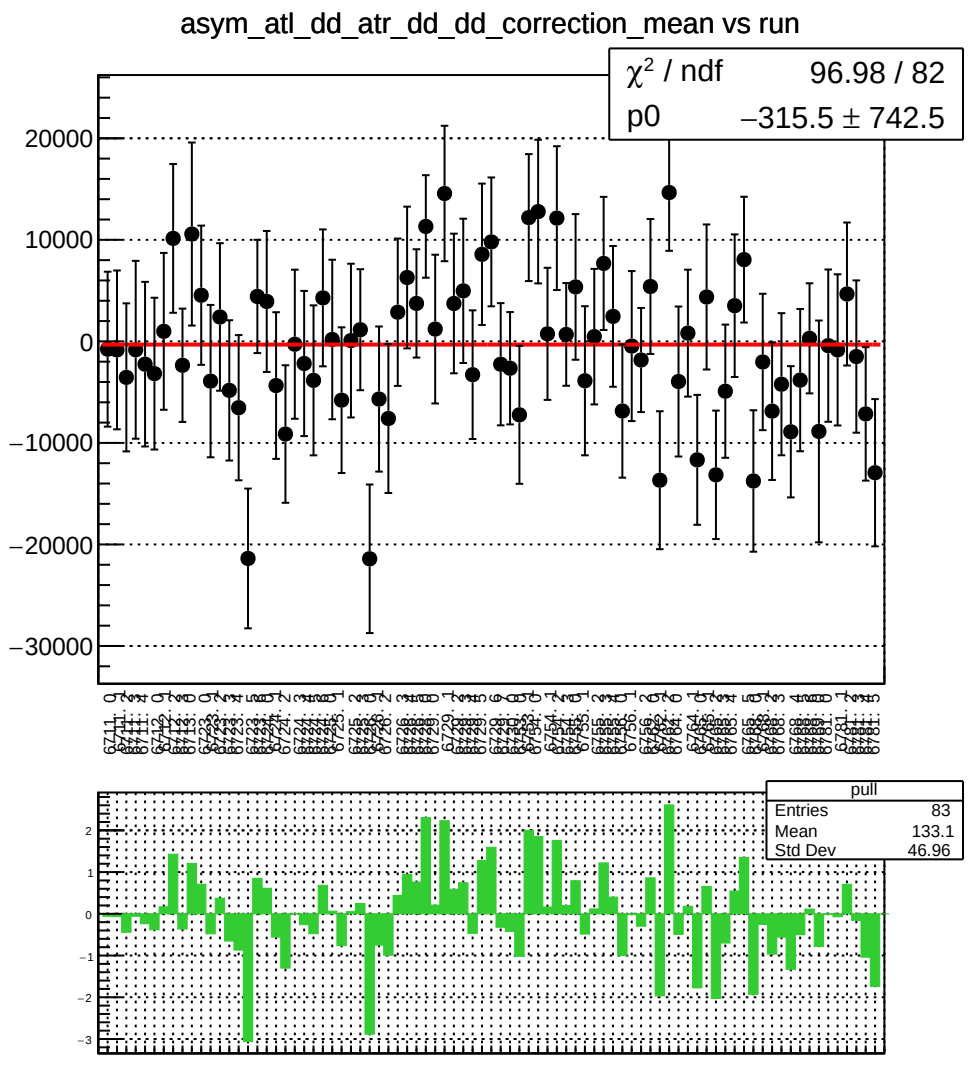
asym_atl_dd_atr_dd_avg_rms vs run

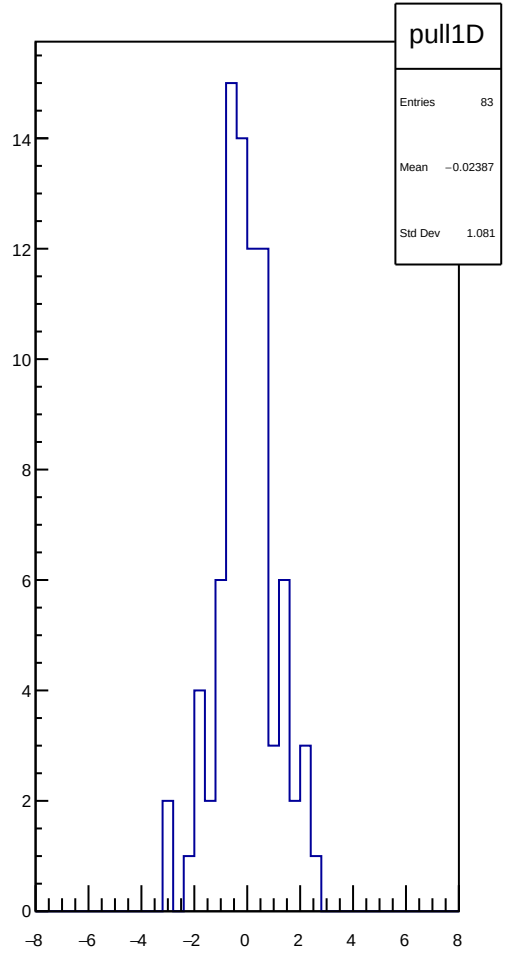


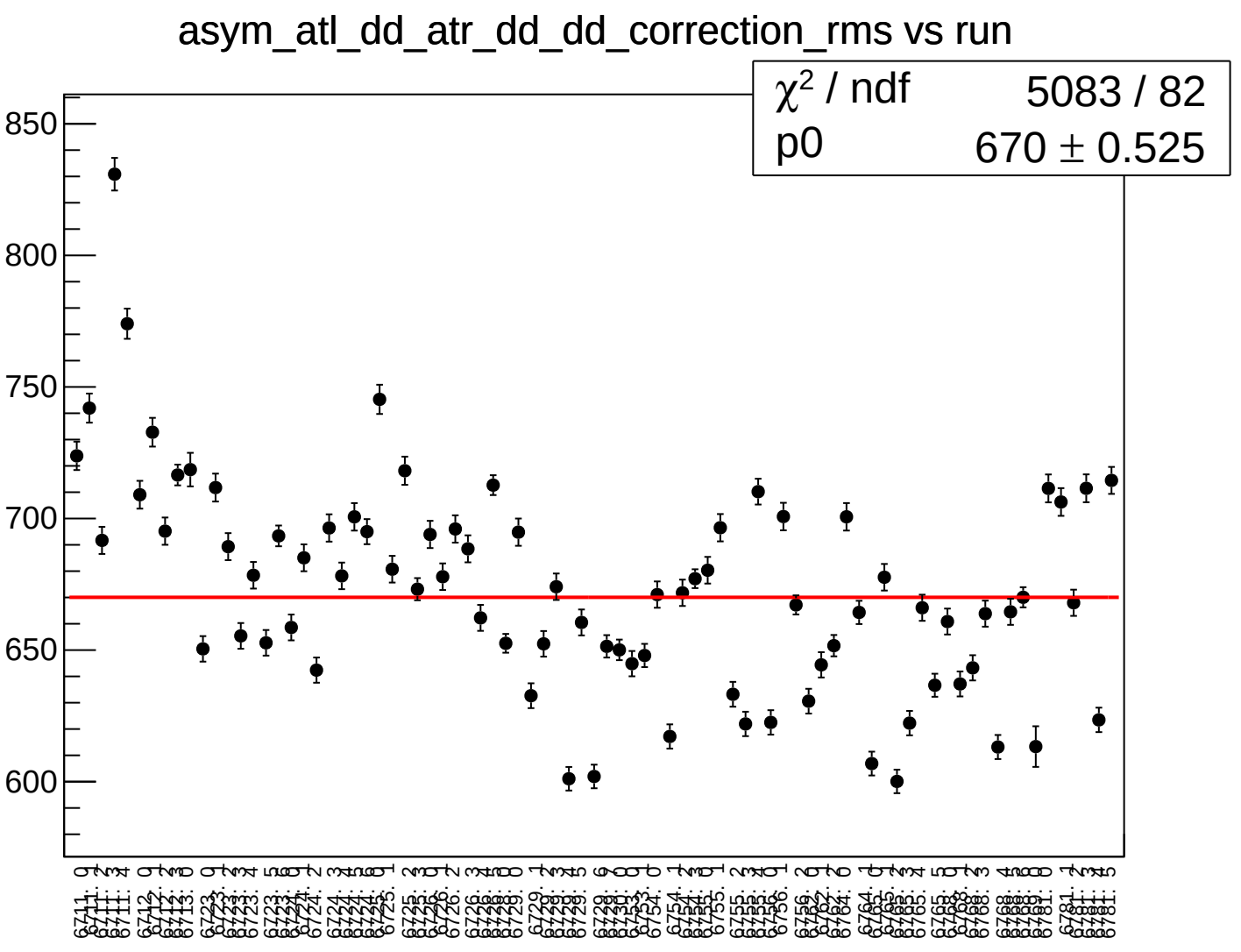

dit_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 92.28 / 82
p0 2129 ± 1444
pull
Entries 83
Mean −4804
Std Dev 4837

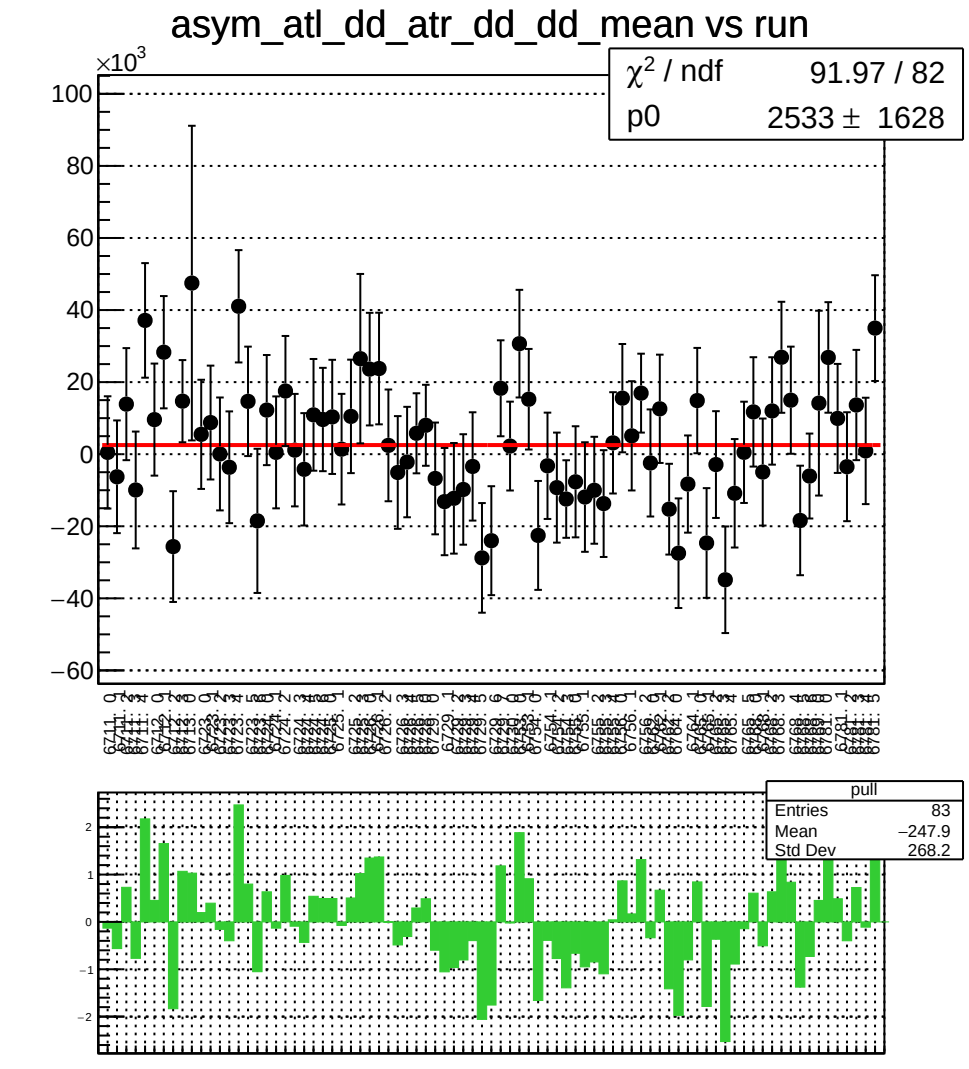

pull1D
Entries 83
Mean 0.0009513
Std Dev 1.054

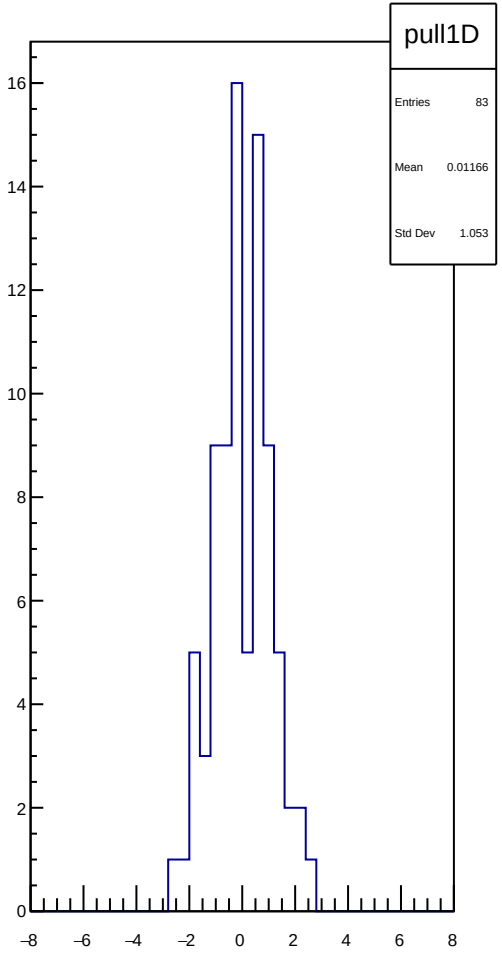

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.804e+04 / 82
p0 1298 ± 1.021
3500
3000
2500
2000
1500

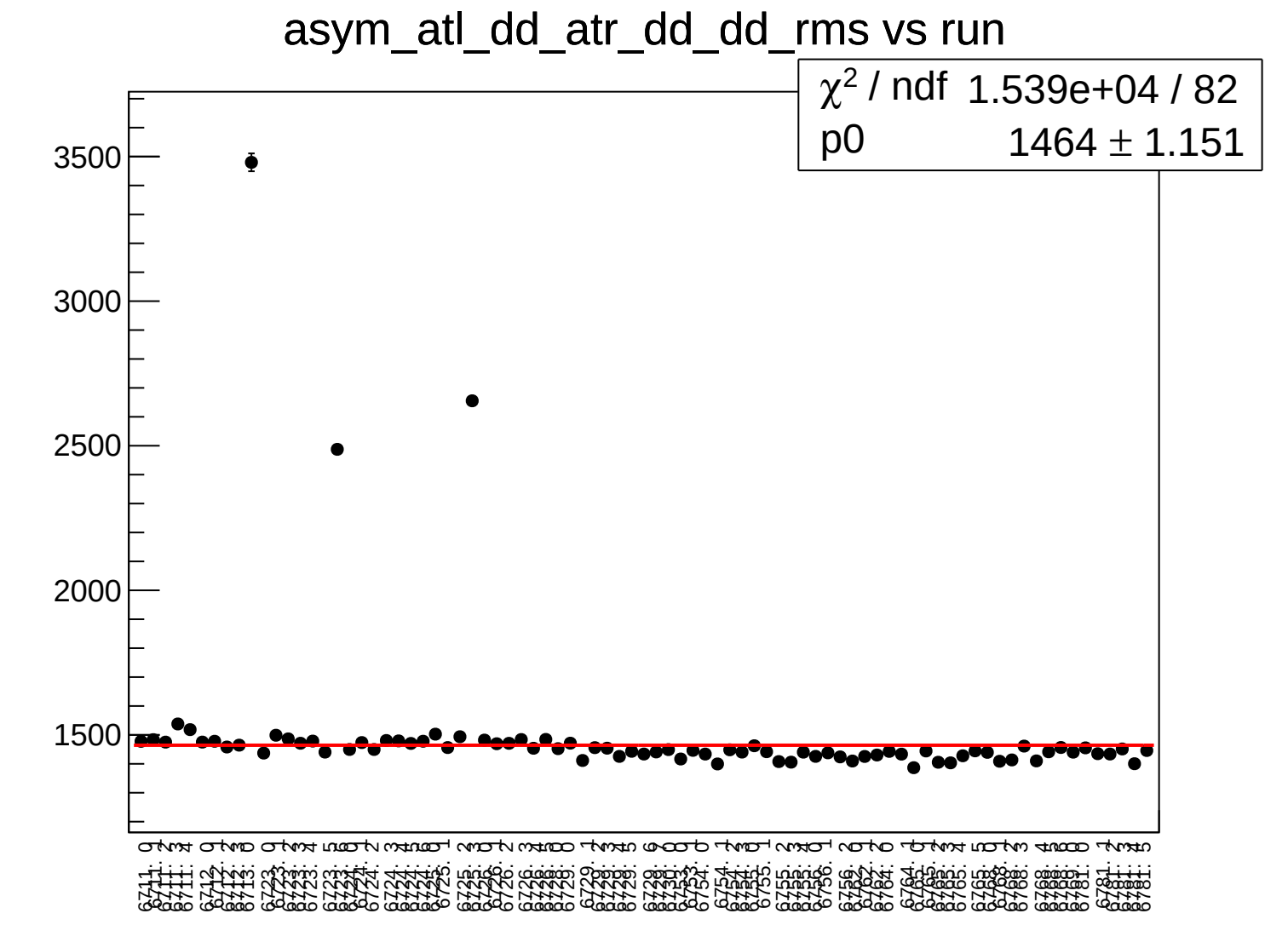

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 96.98 / 82
p0 −315.5 ± 742.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean 133.1
Std Dev 46.96
2
1
0
−1
−2
−3

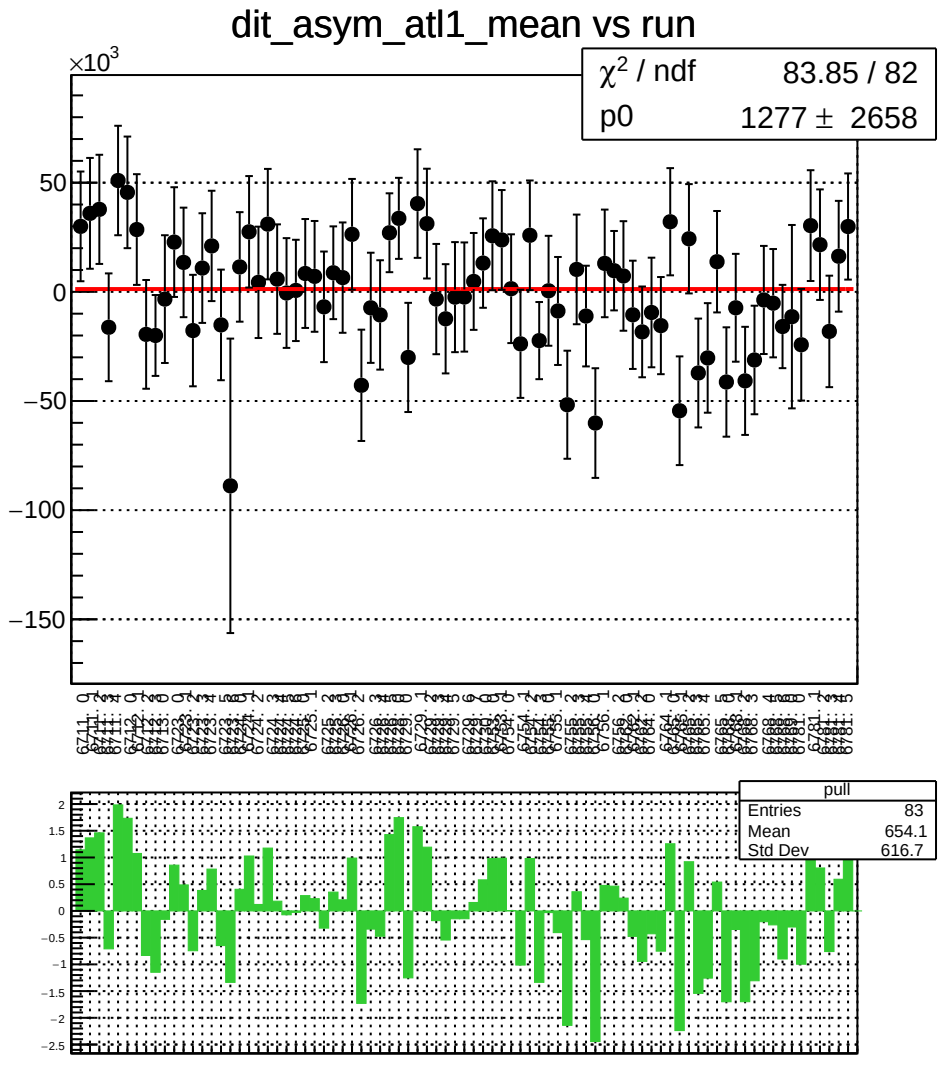

pull1D
Entries 83
Mean −0.02387
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

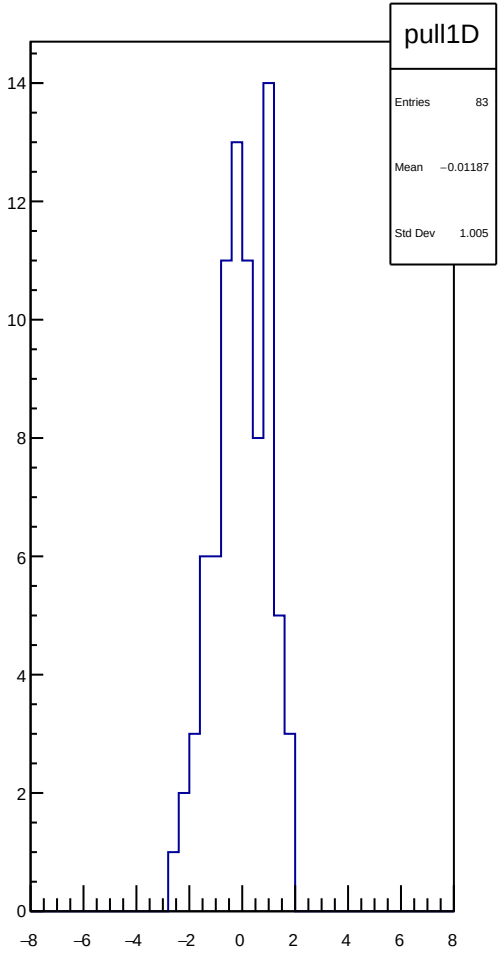

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 5083 / 82
p0 670 ± 0.525
850
800
750
700
650
600

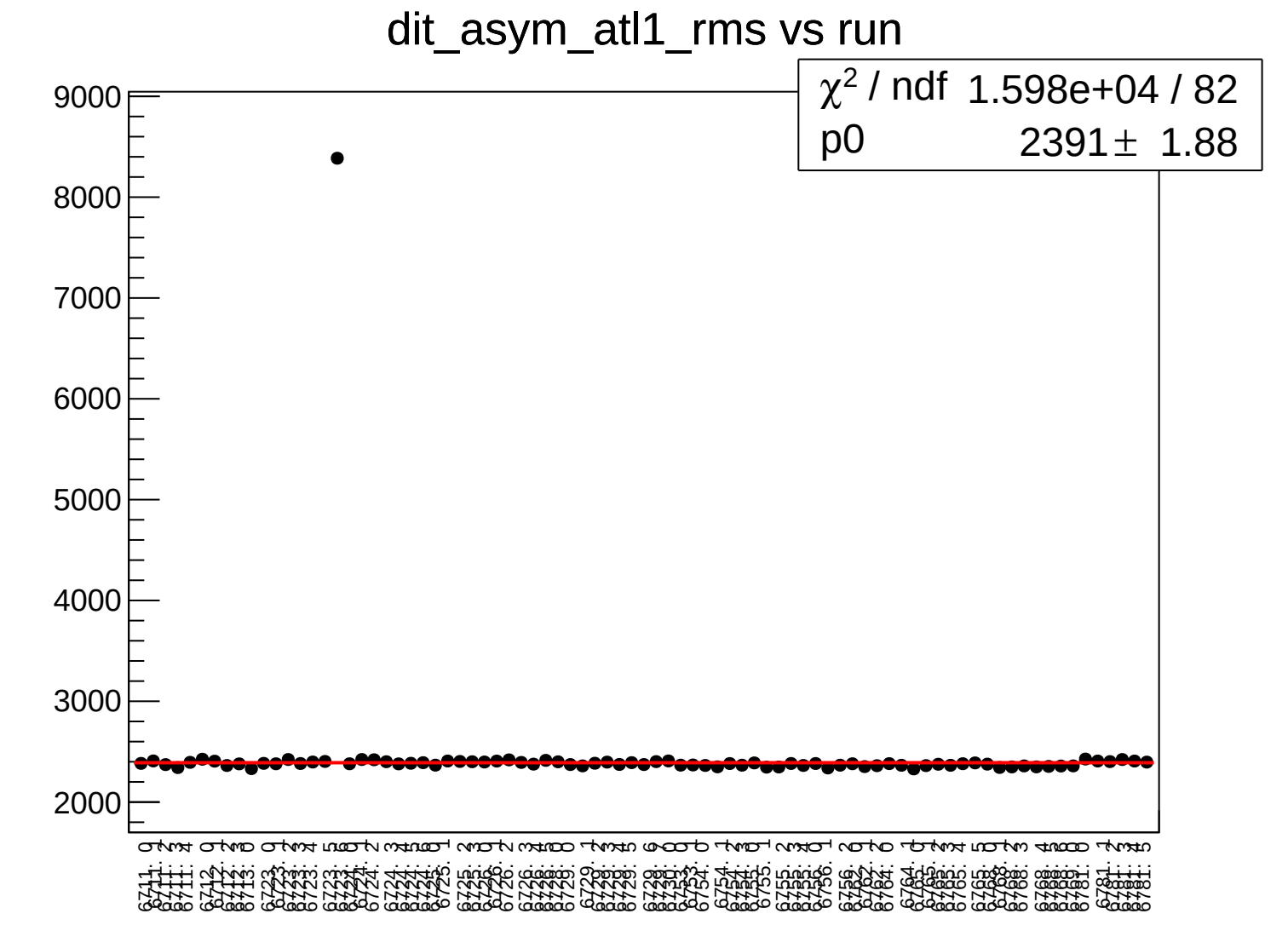

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 91.97 / 82
p0 2533 ± 1628
pull
Entries 83
Mean −247.9
Std Dev 268.2

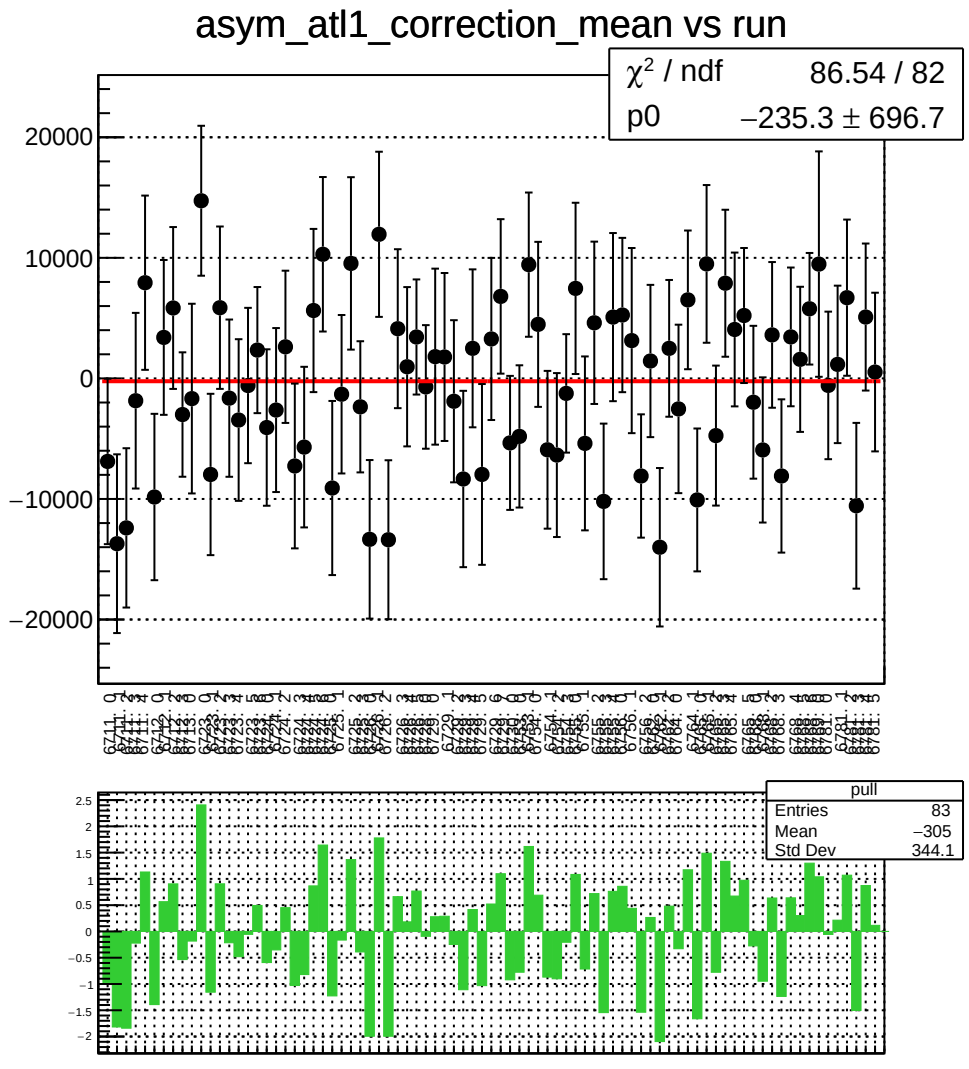

pull1D
Entries 83
Mean 0.01166
Std Dev 1.053

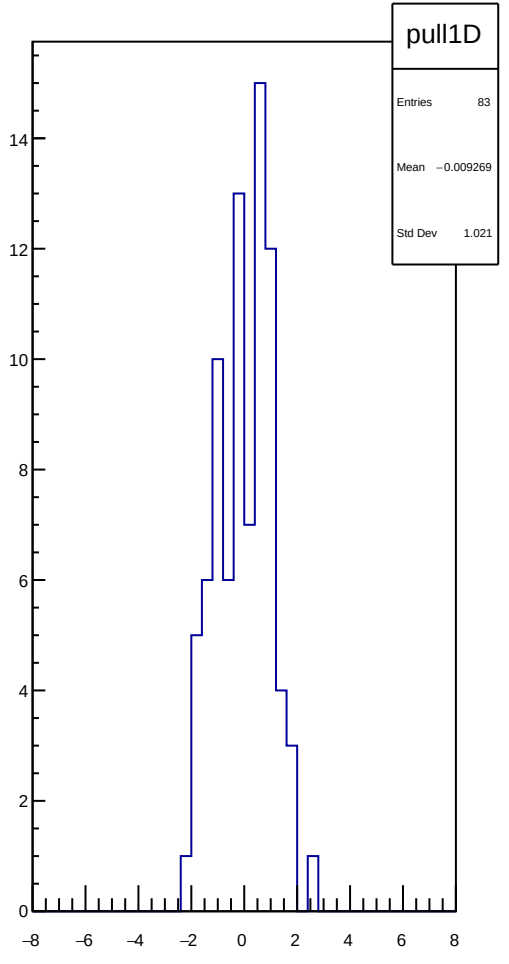

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.539e+04 / 82
p0 1464 ± 1.151
3500
3000
2500
2000
1500

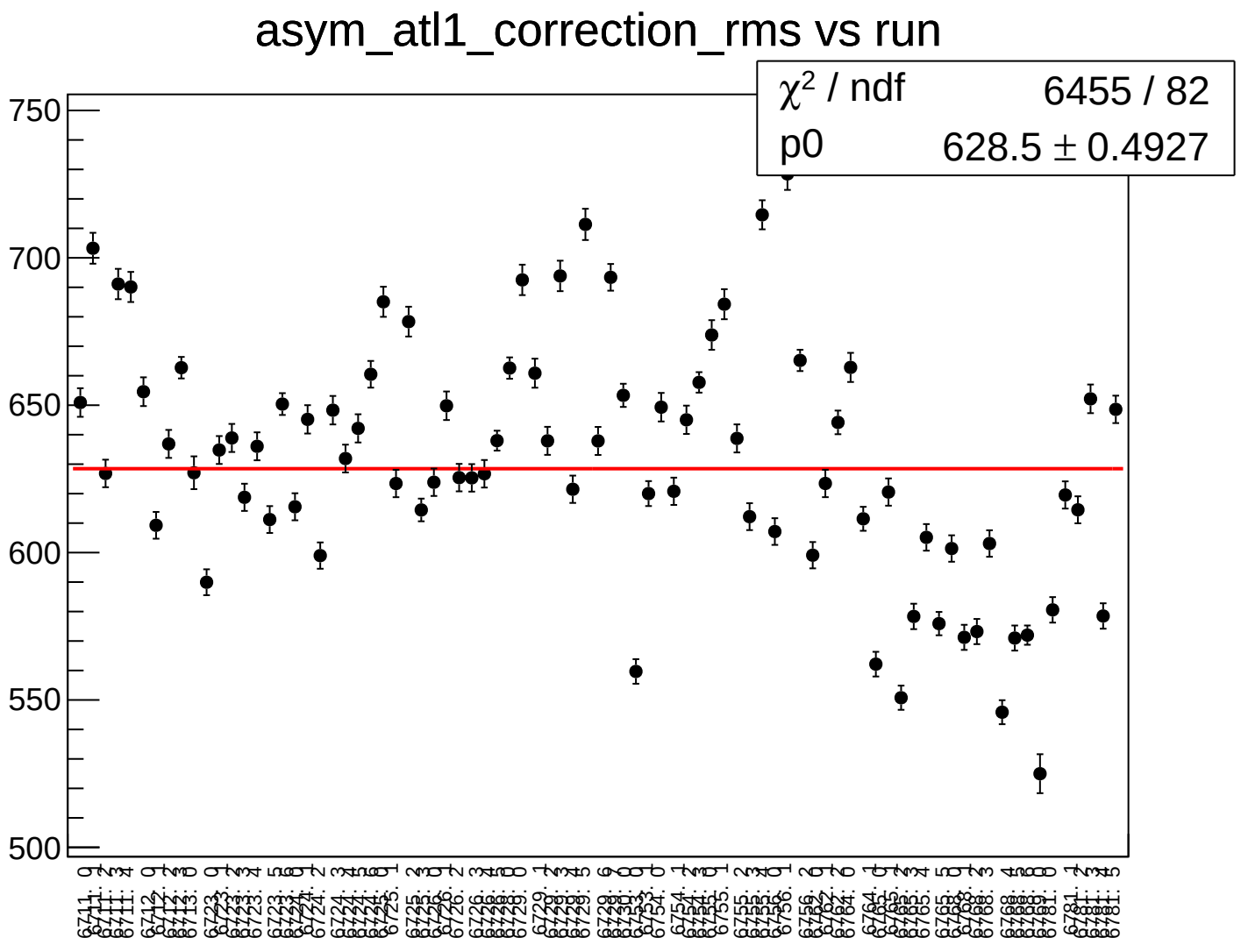

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 83.85 / 82
p0 1277 ± 2658
50
0
−50
−100
−150
pull
Entries 83
Mean 654.1
Std Dev 616.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

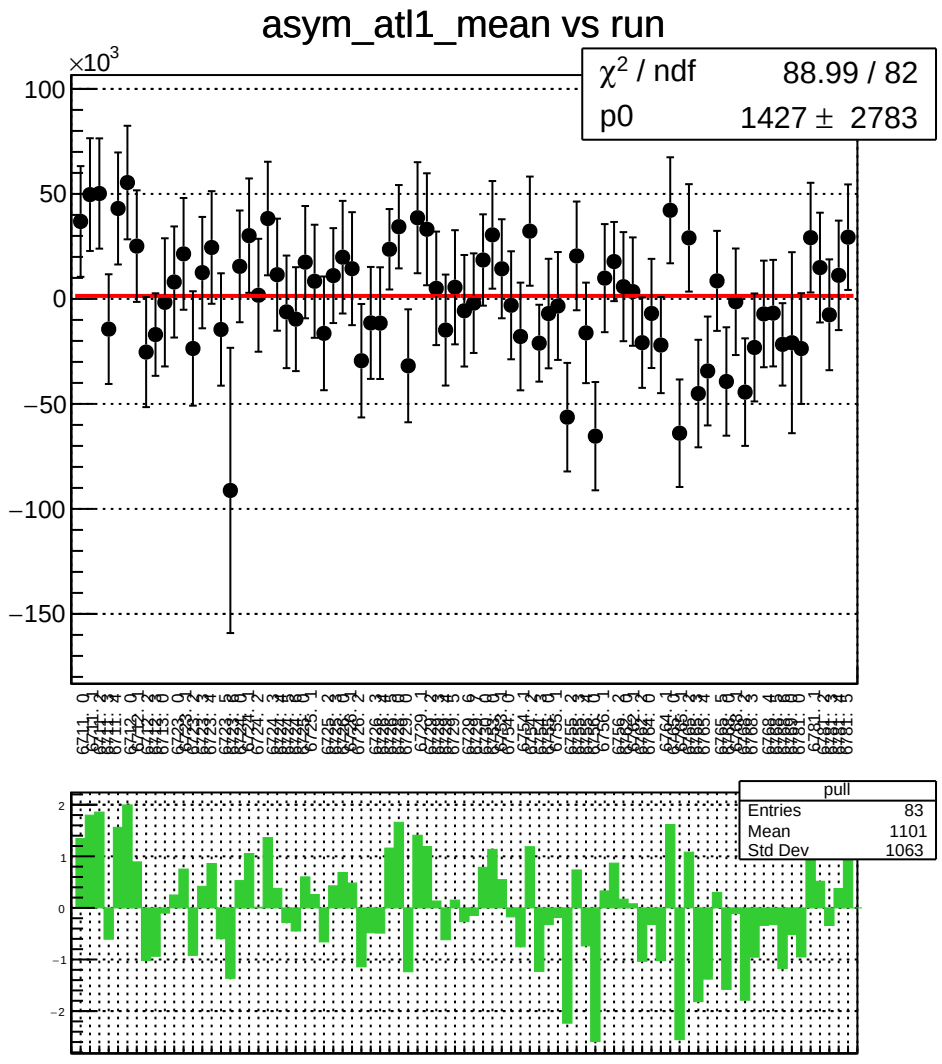

pull1D
Entries 83
Mean −0.01187
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

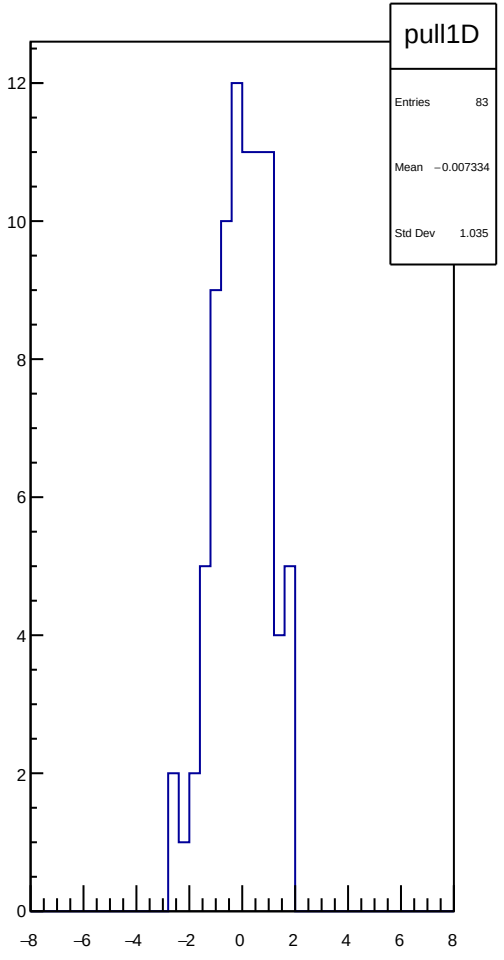

dit_asym_atl1_rms vs run
χ² / ndf 1.598e+04 / 82
p0 2391 ± 1.88
9000
8000
7000
6000
5000
4000
3000
2000

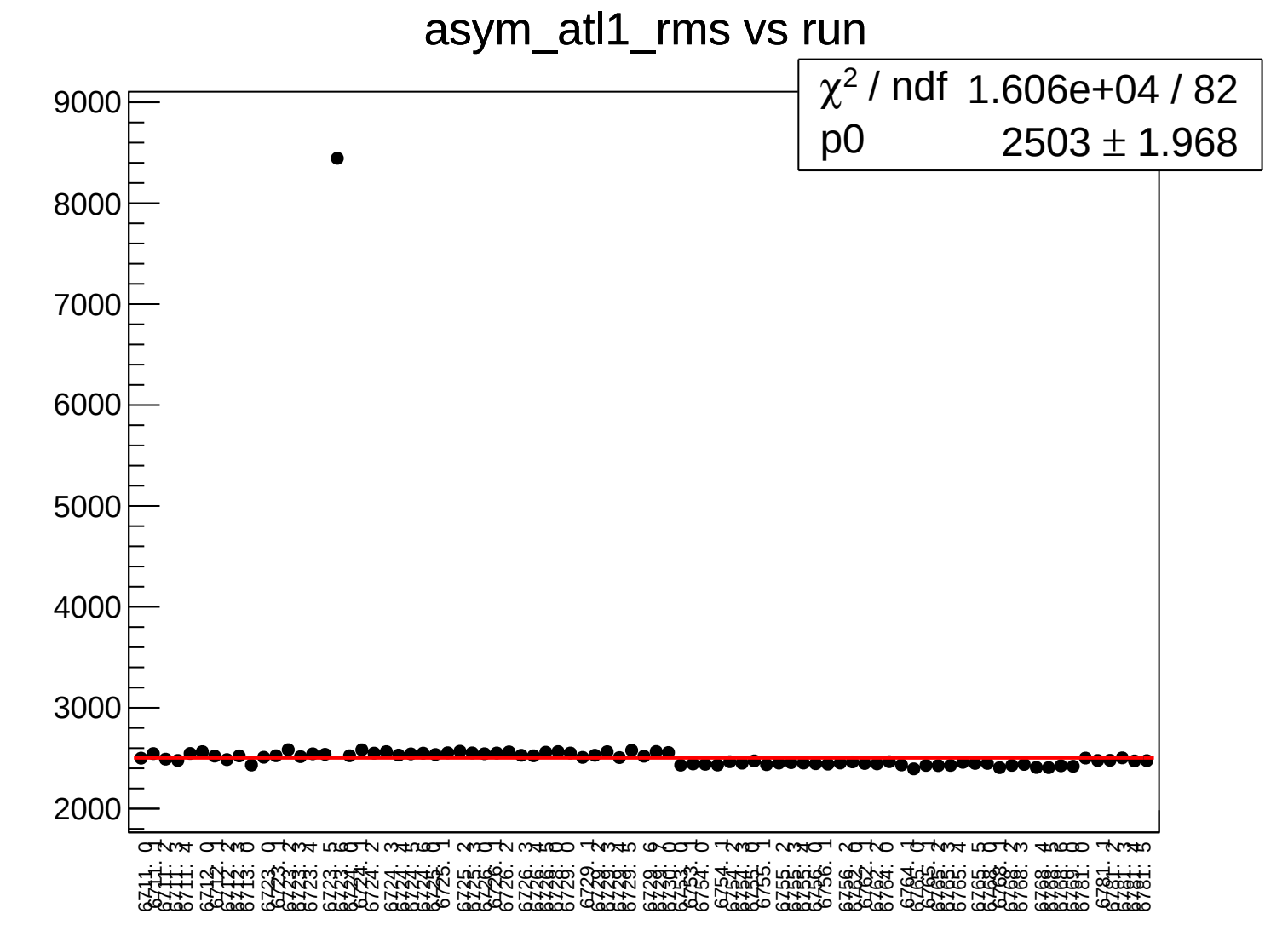

asym_atl1_correction_mean vs run
χ² / ndf 86.54 / 82
p0 −235.3 ± 696.7
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −305
Std Dev 344.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

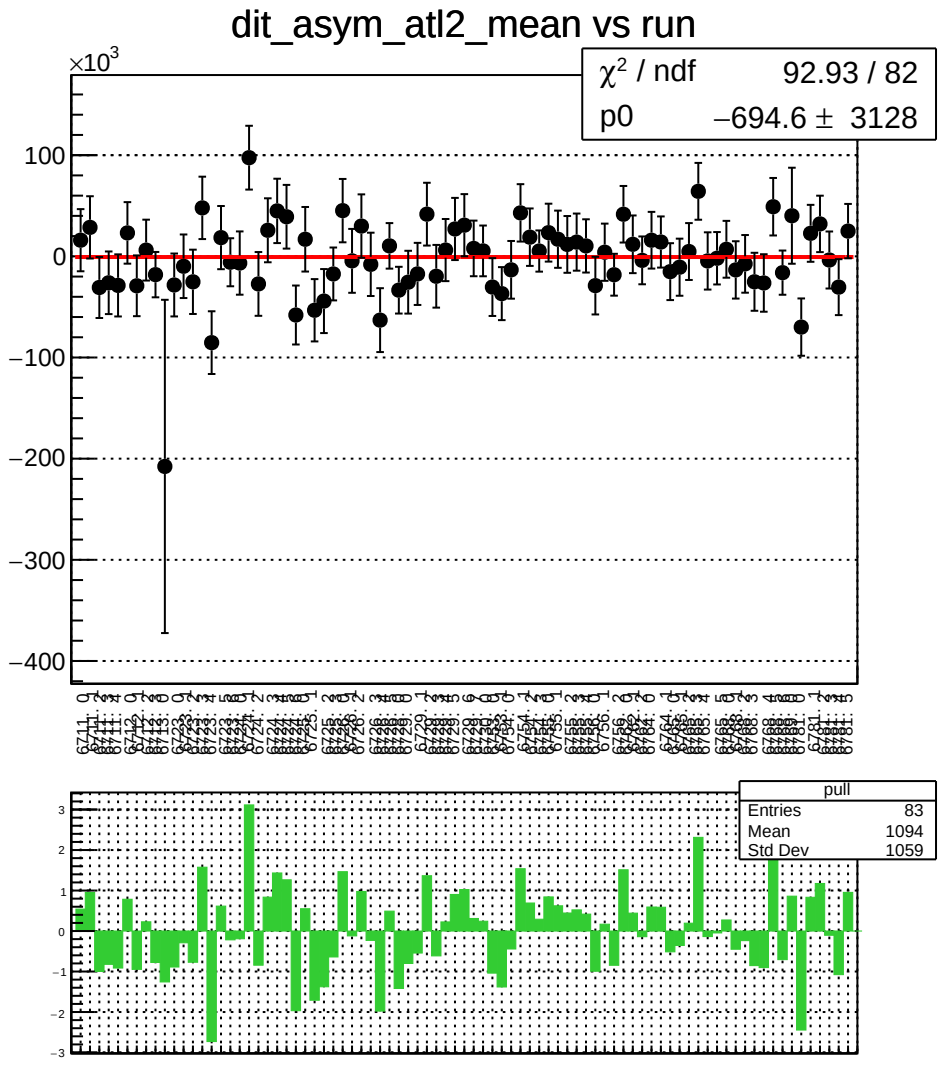

pull1D
Entries 83
Mean −0.009269
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

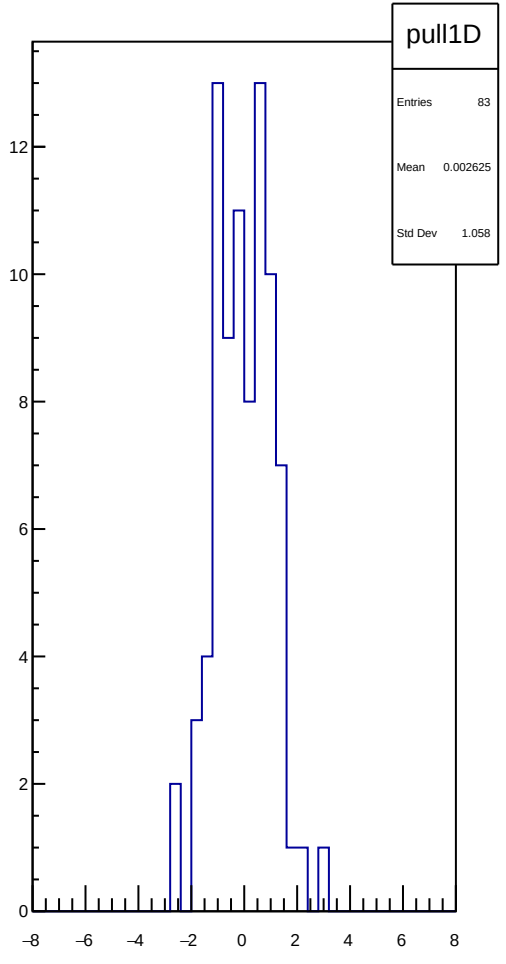

asym_atl1_correction_rms vs run
χ² / ndf 6455 / 82
p0 628.5 ± 0.4927
750
700
650
600
550
500

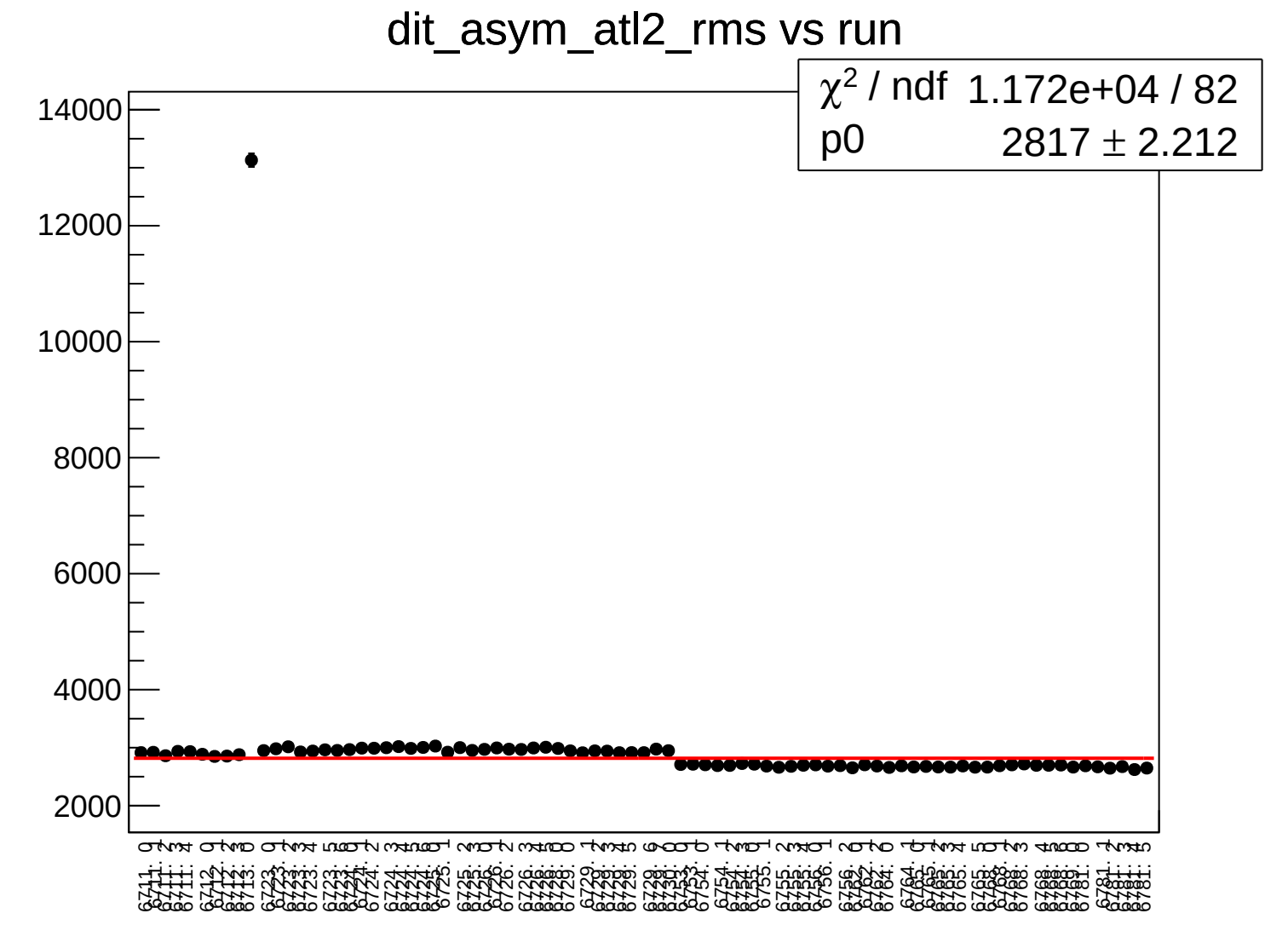

asym_atl1_mean vs run
×10^3
χ^2 / ndf 88.99 / 82
p0 1427 ± 2783
100
50
0
−50
−100
−150
pull
Entries 83
Mean 1101
Std Dev 1063
2
1
0
−1
−2

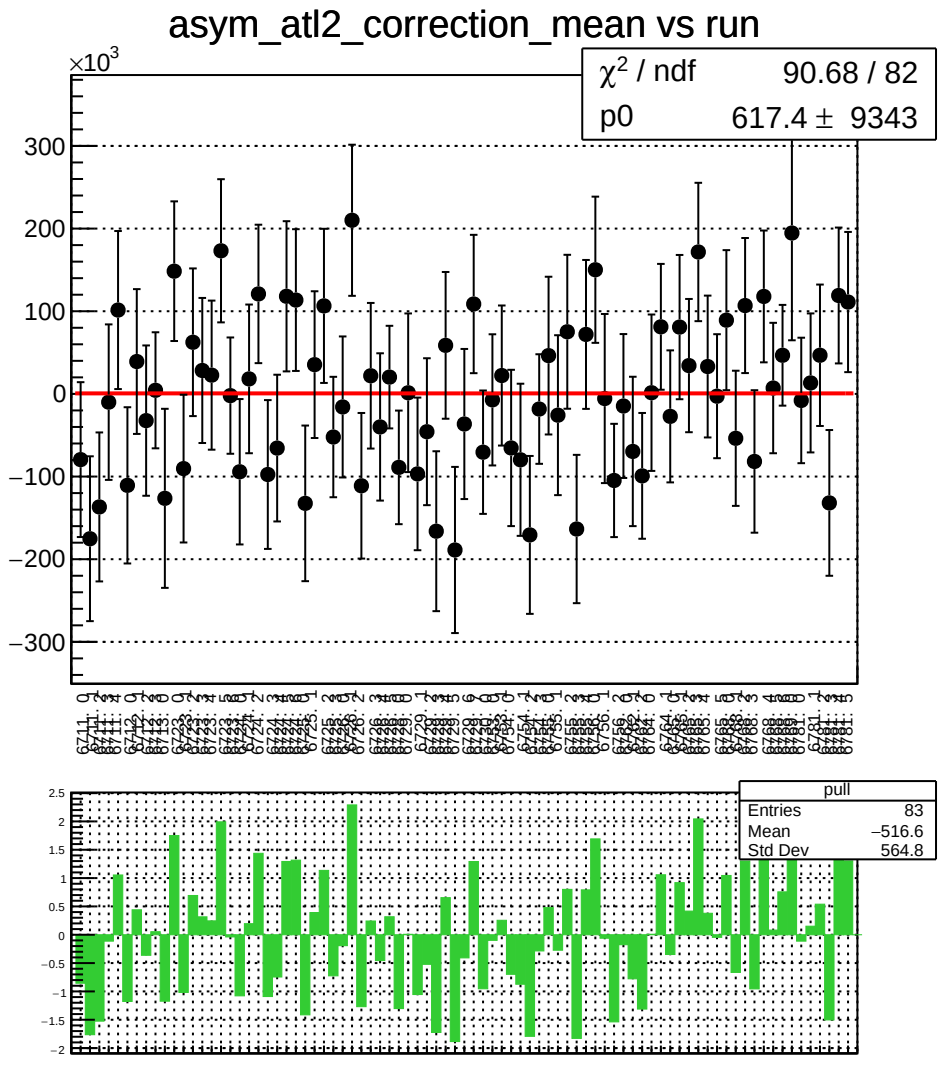

pull1D
Entries 83
Mean −0.007334
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

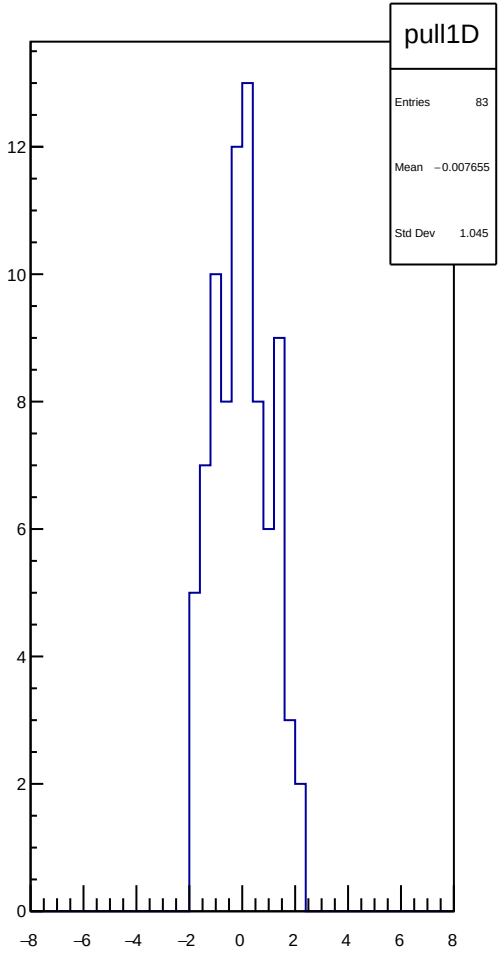

asym_atl1_rms vs run
χ² / ndf 1.606e+04 / 82
p0 2503 ± 1.968
9000
8000
7000
6000
5000
4000
3000
2000

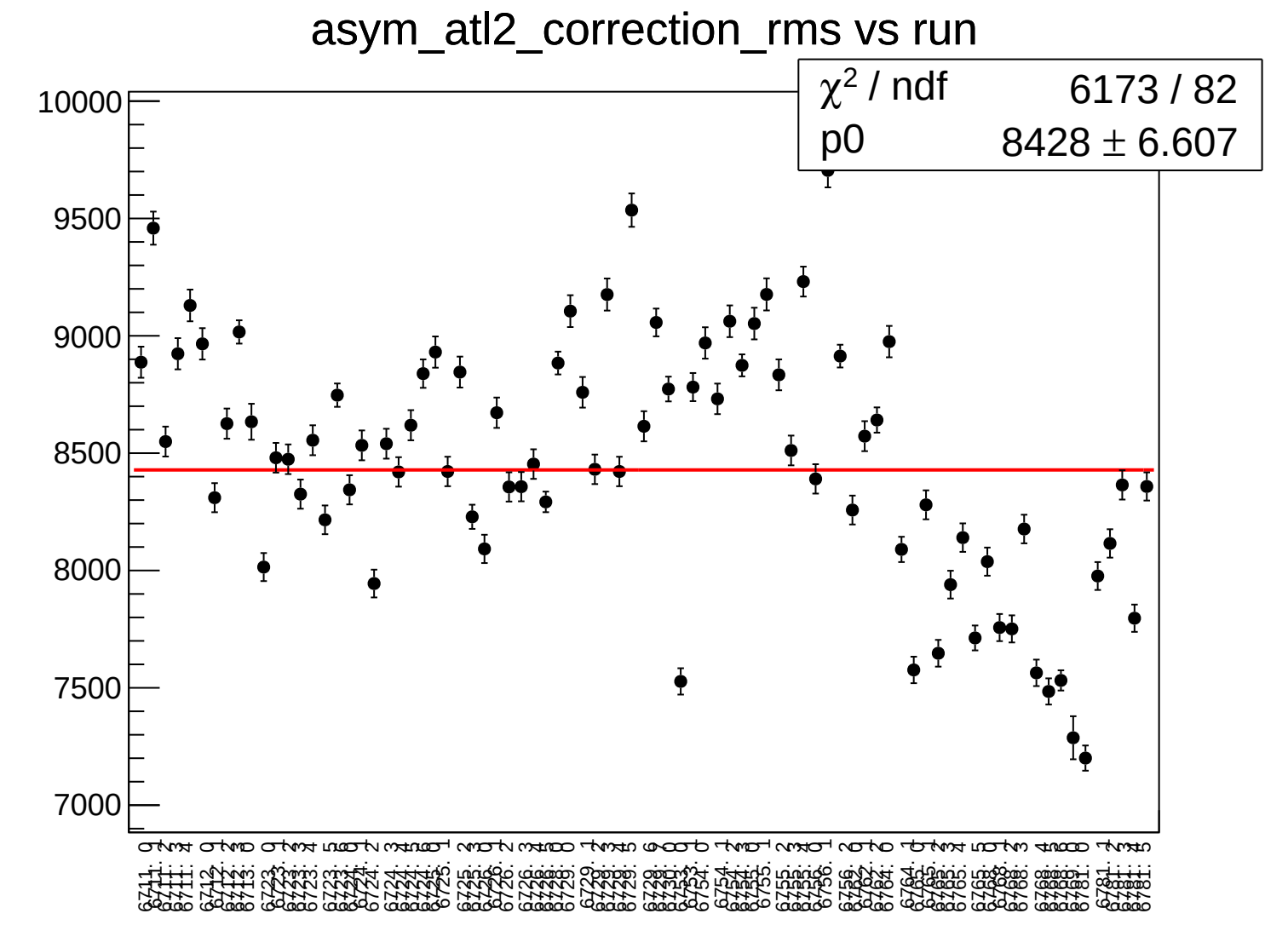

dit_asym_atl2_mean vs run
×10^3
χ² / ndf 92.93 / 82
p0 −694.6 ± 3128
100
0
−100
−200
−300
−400
pull
Entries 83
Mean 1094
Std Dev 1059
3
2
1
0
−1
−2
−3

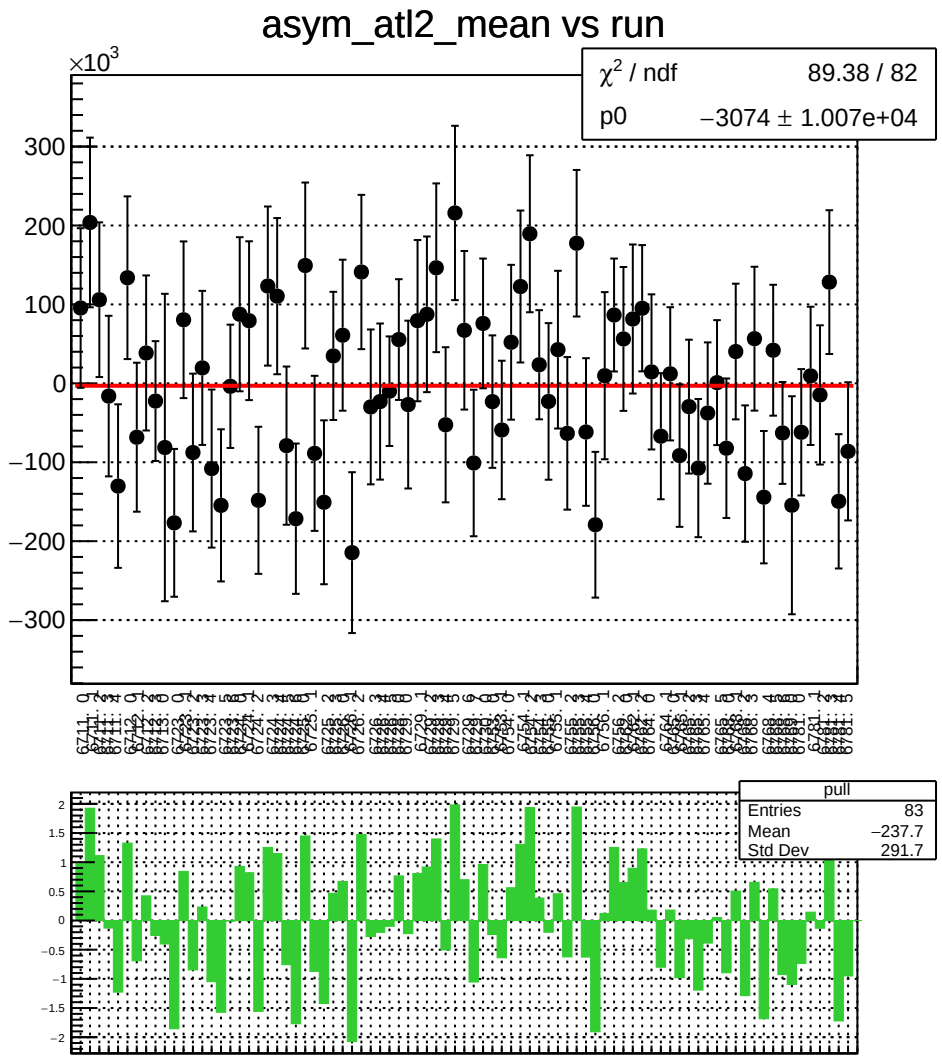

pull1D
Entries 83
Mean 0.002625
Std Dev 1.058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

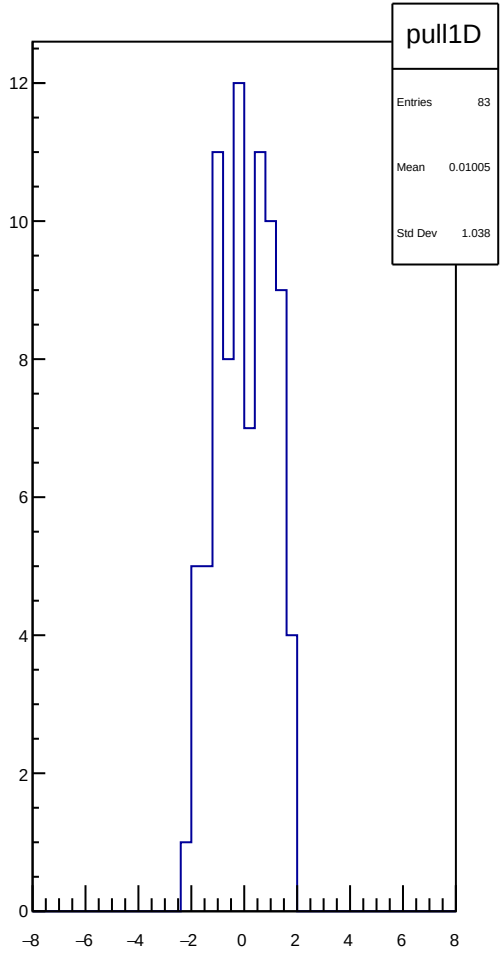

dit_asym_atl2_rms vs run
χ² / ndf 1.172e+04 / 82
p0 2817 ± 2.212
14000
12000
10000
8000
6000
4000
2000

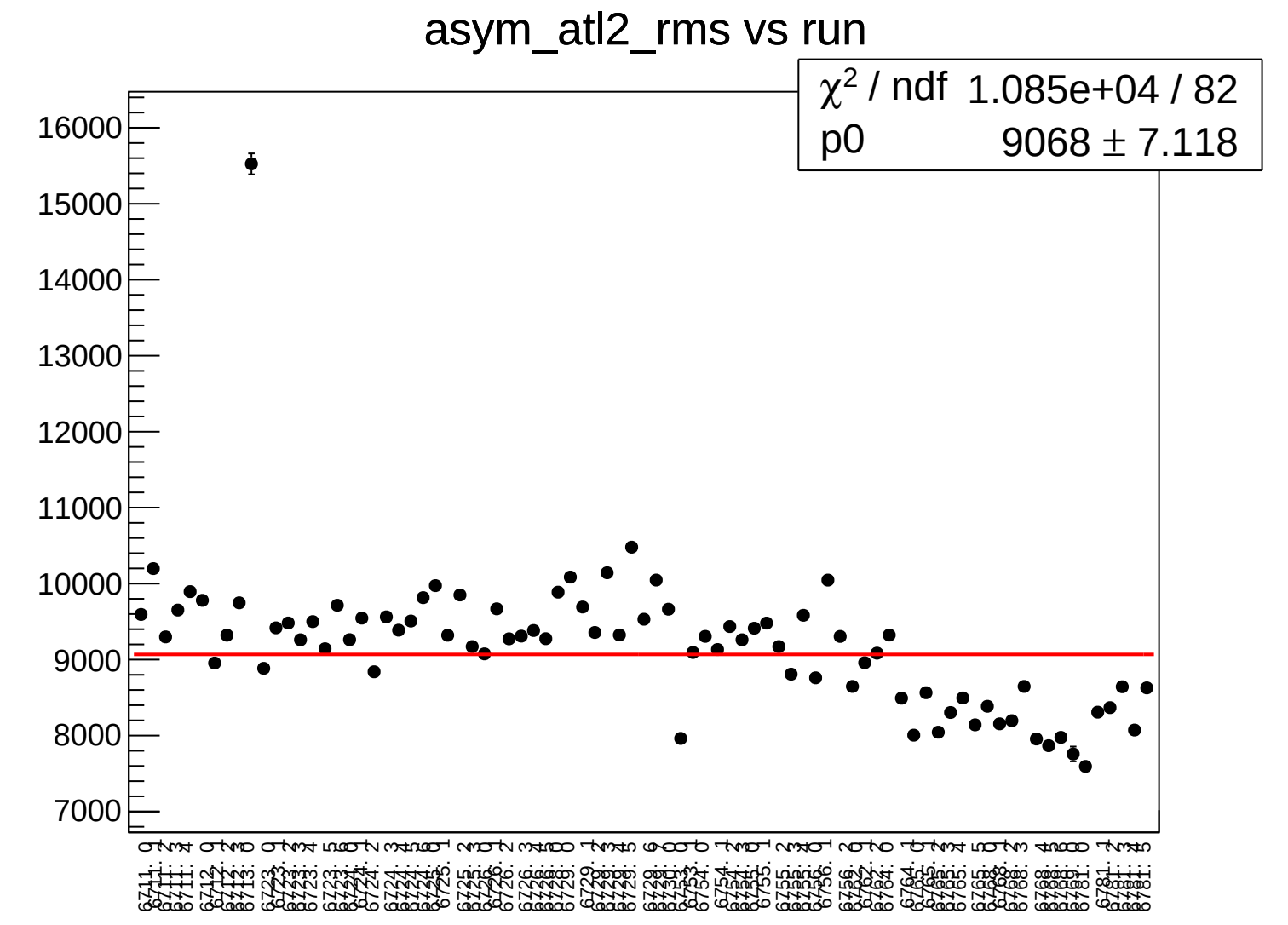

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 90.68 / 82
p0 617.4 ± 9343
300
200
100
0
−100
−200
−300
pull
Entries 83
Mean −516.6
Std Dev 564.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

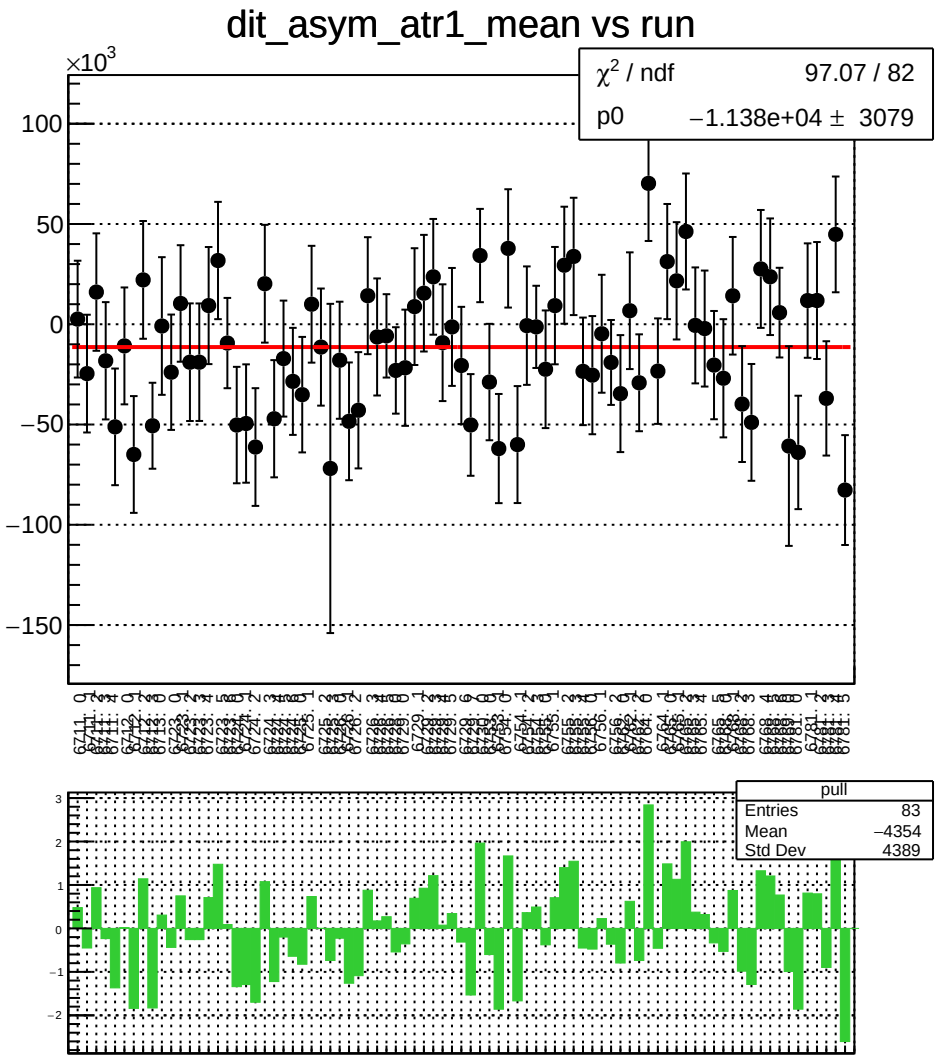

pull1D
Entries 83
Mean −0.007655
Std Dev 1.045
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

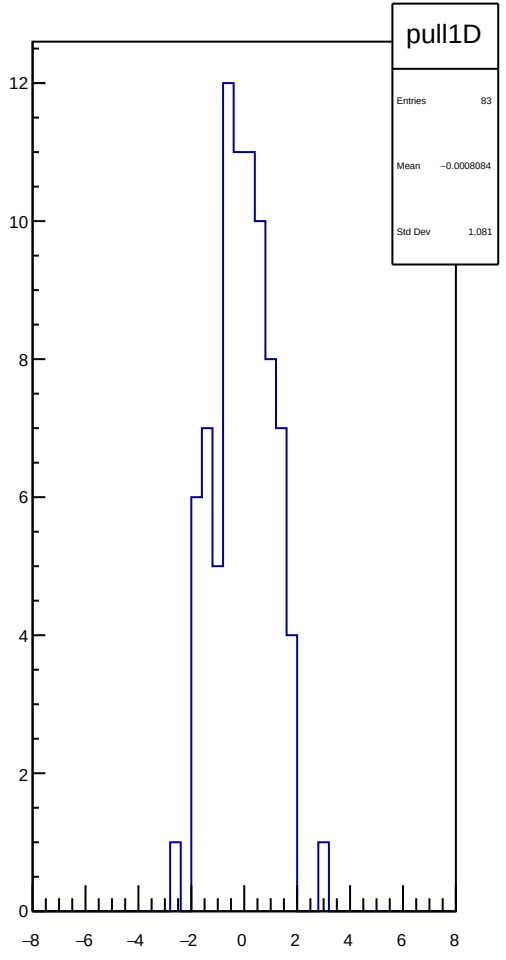

asym_atl2_correction_rms vs run
χ² / ndf 6173 / 82
p0 8428 ± 6.607
10000
9500
9000
8500
8000
7500
7000

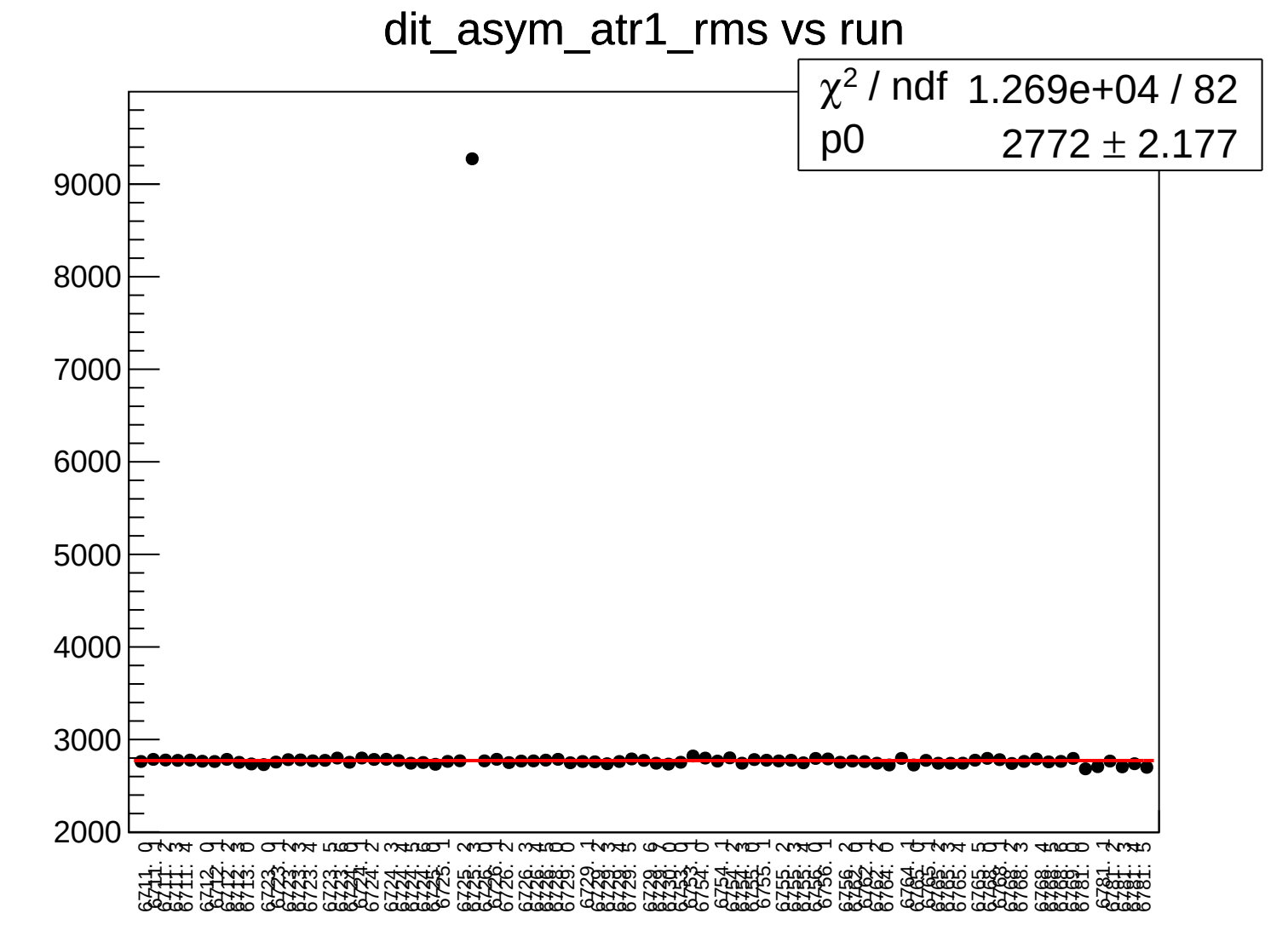

asym_atl2_mean vs run
×10^3
χ² / ndf 89.38 / 82
p0 −3074 ± 1.007e+04
300
200
100
0
−100
−200
−300
pull
Entries 83
Mean −237.7
Std Dev 291.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

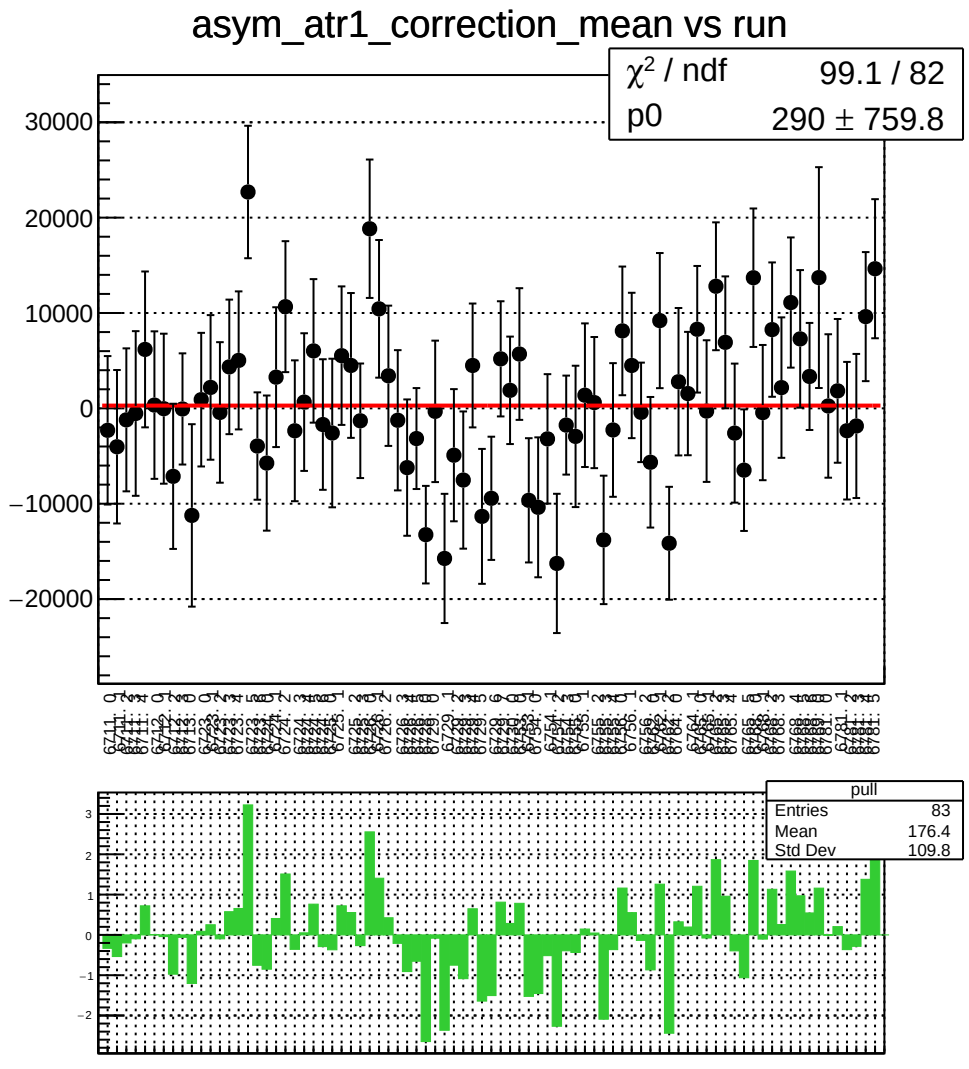

pull1D
Entries 83
Mean 0.01005
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

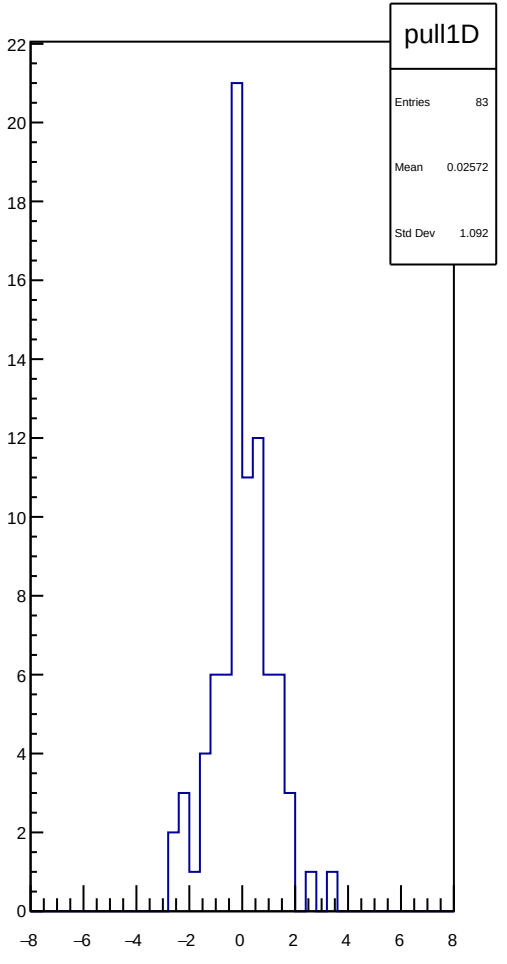

asym_atl2_rms vs run
χ² / ndf 1.085e+04 / 82
p0 9068 ± 7.118
16000
15000
14000
13000
12000
11000
10000
9000
8000
7000

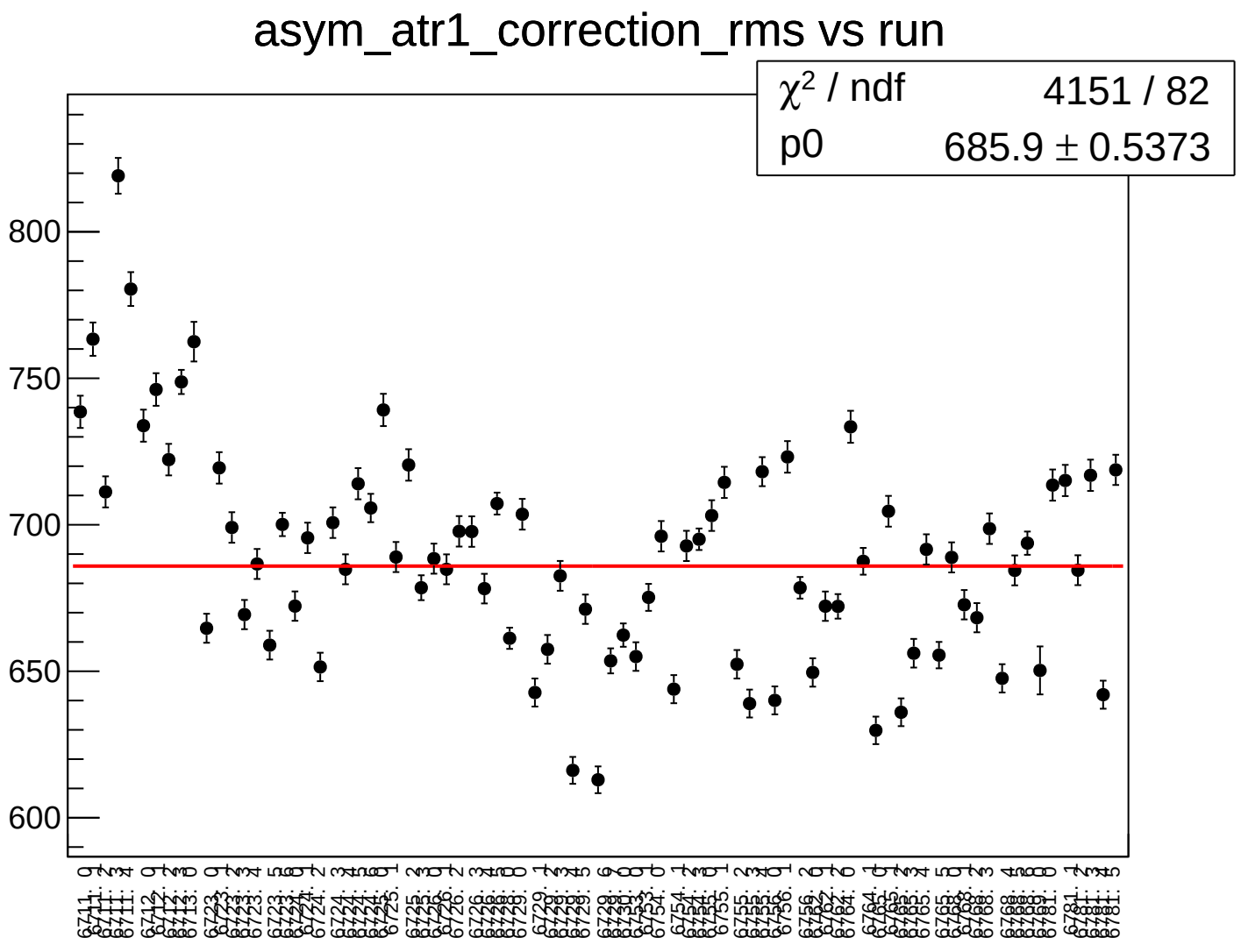

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 97.07 / 82
p0 −1.138e+04 ± 3079
100
50
0
−50
−100
−150
pull
Entries 83
Mean −4354
Std Dev 4389
3
2
1
0
−1
−2

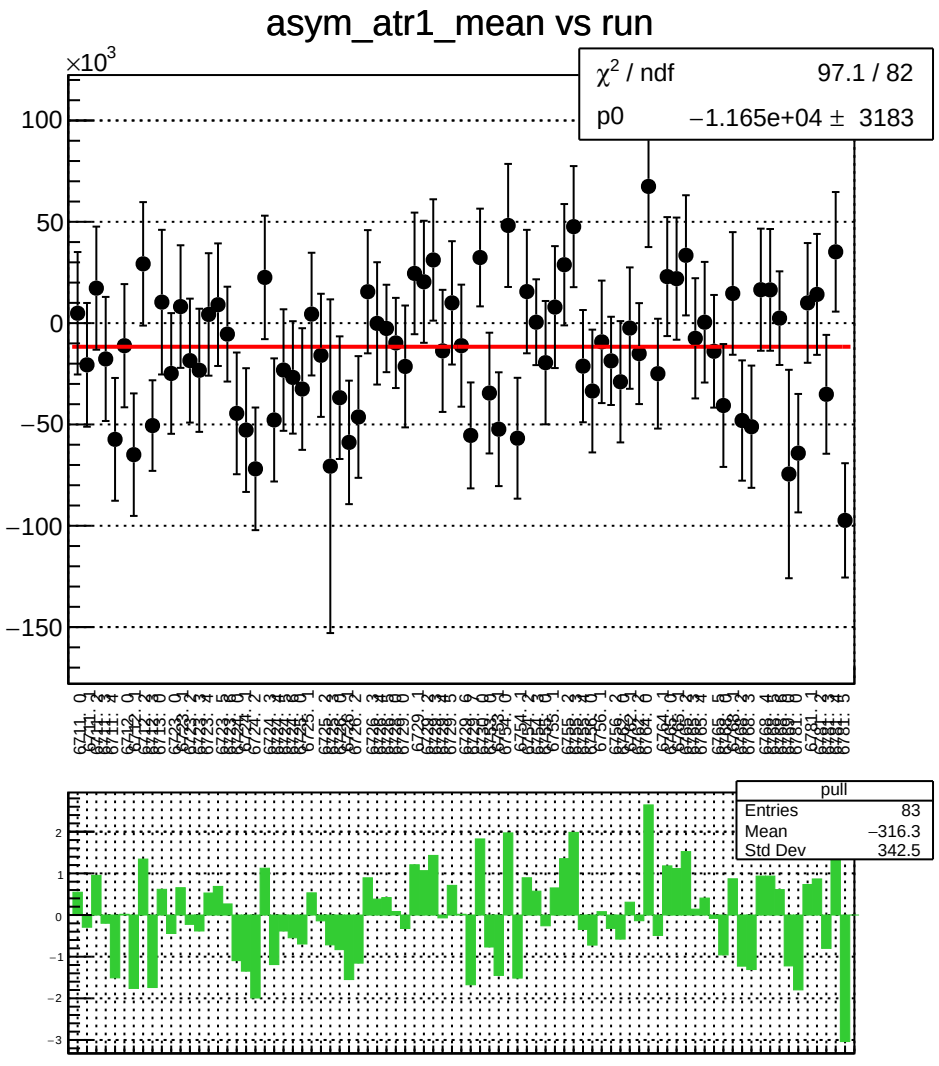

pull1D
Entries 83
Mean −0.0008084
Std Dev 1.081
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

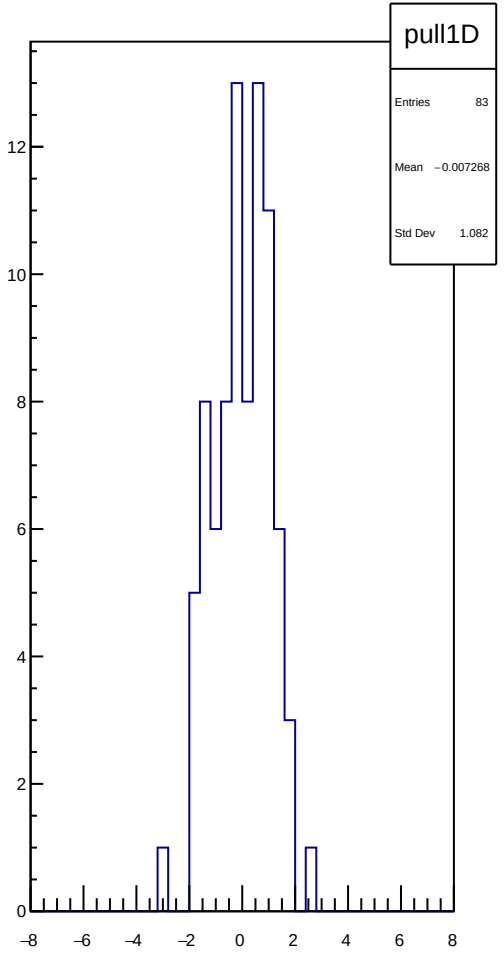

dit_asym_atr1_rms vs run
χ² / ndf 1.269e+04 / 82
p0 2772 ± 2.177
9000
8000
7000
6000
5000
4000
3000
2000

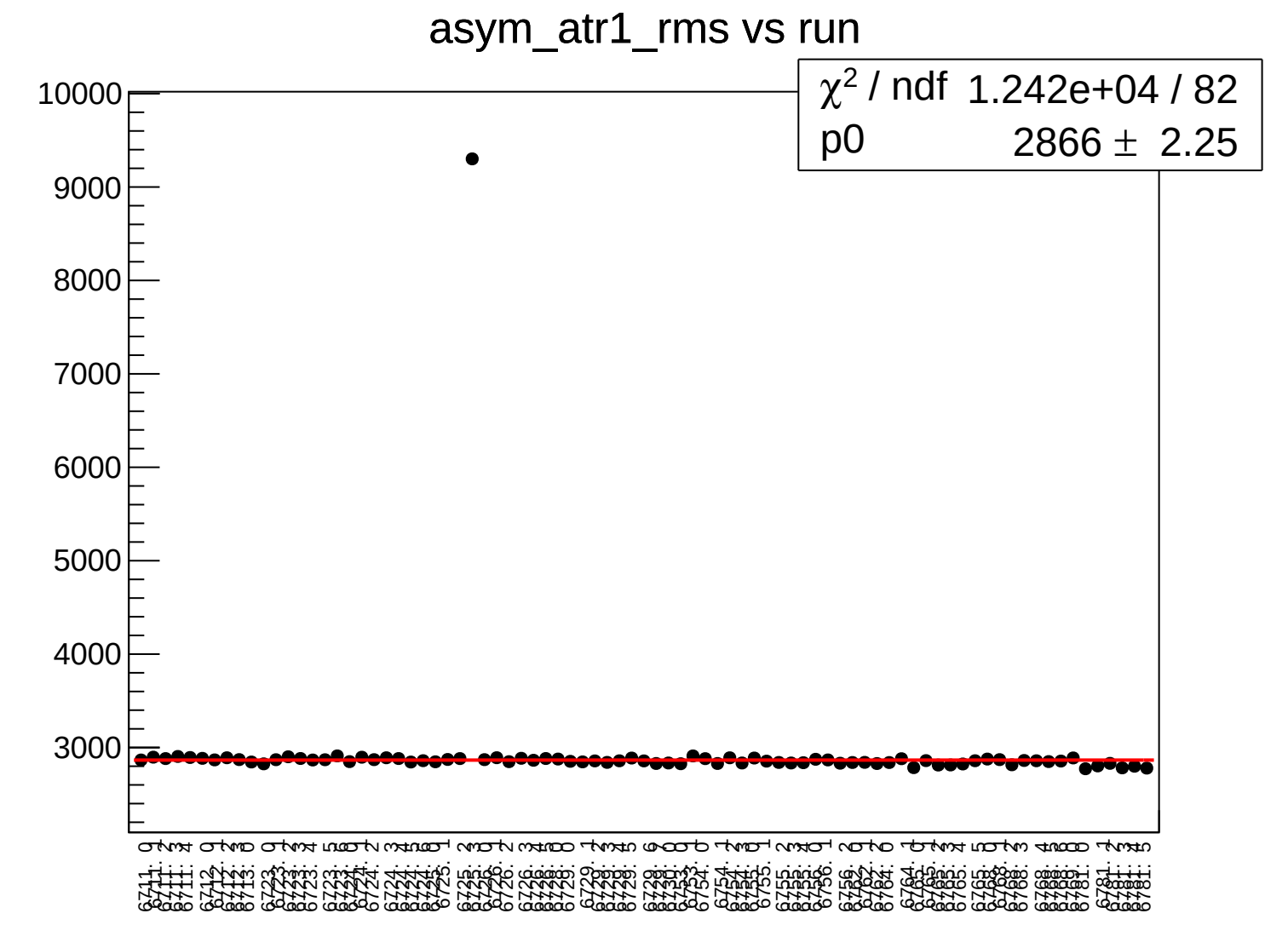

asym_atr1_correction_mean vs run
χ² / ndf 99.1 / 82
p0 290 ± 759.8
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 176.4
Std Dev 109.8
3
2
1
0
−1
−2

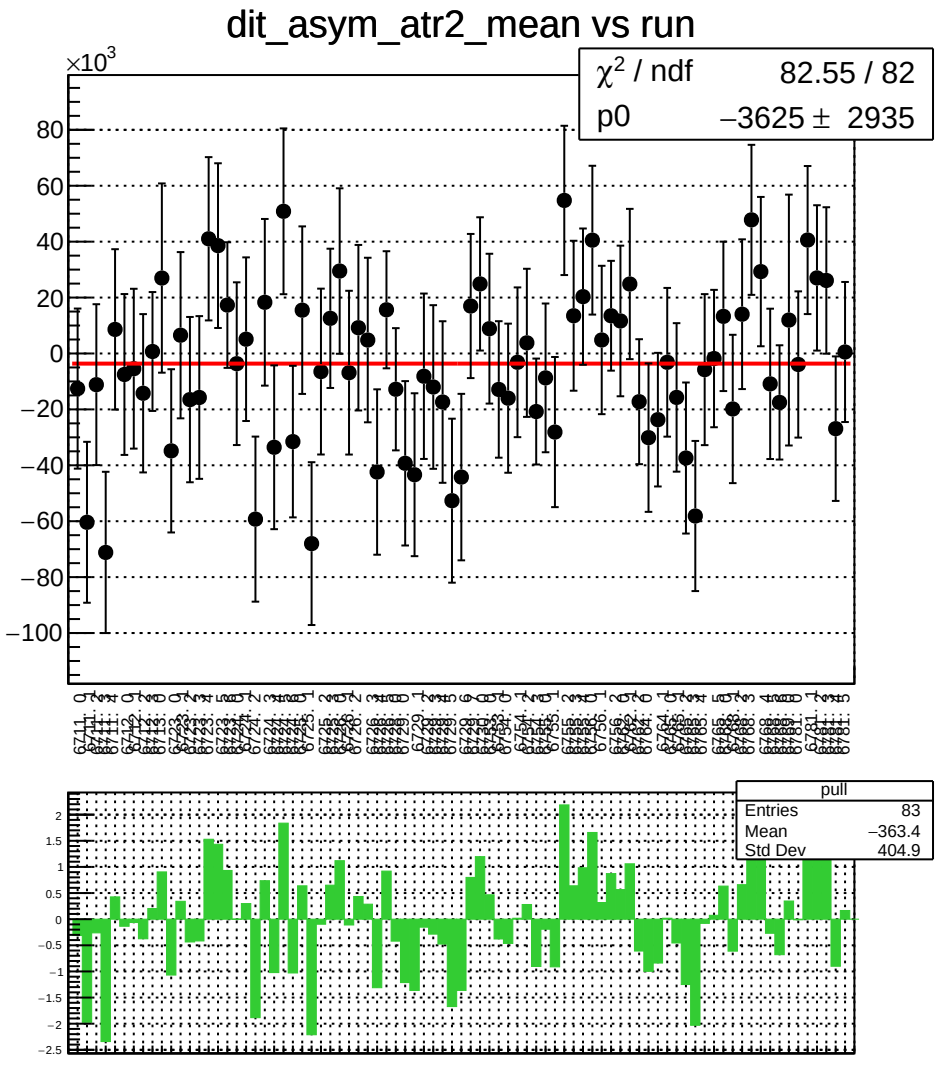

pull1D
Entries 83
Mean 0.02572
Std Dev 1.092
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

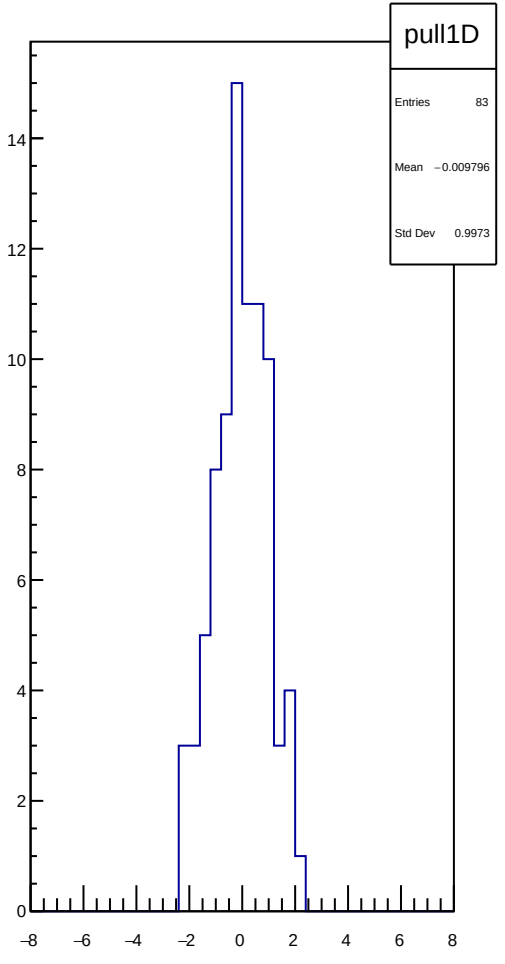

asym_atr1_correction_rms vs run
χ² / ndf 4151 / 82
p0 685.9 ± 0.5373
800
750
700
650
600

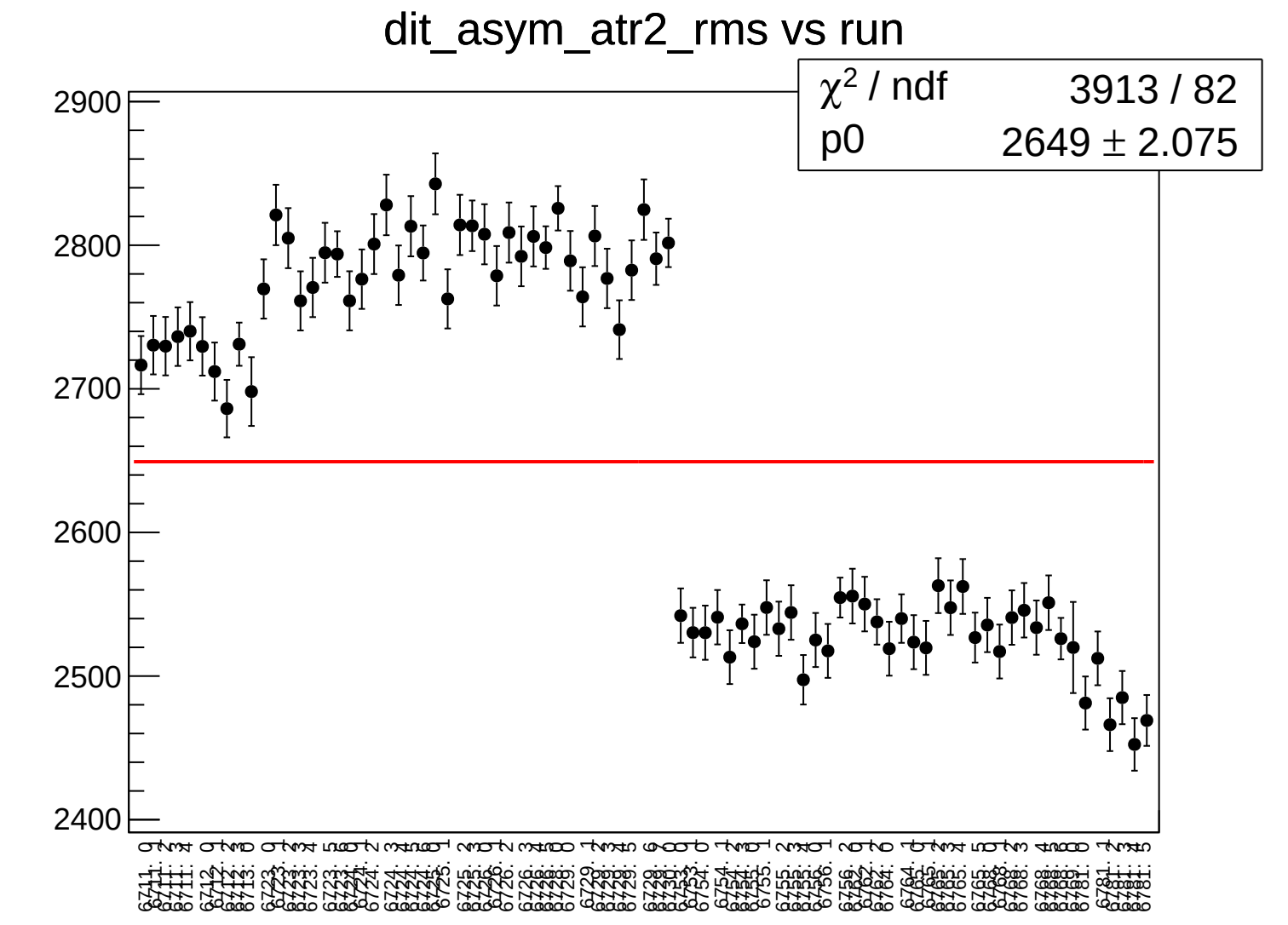

asym_atr1_mean vs run
×10^3
χ² / ndf 97.1 / 82
p0 −1.165e+04 ± 3183
100
50
0
−50
−100
−150
pull
Entries 83
Mean −316.3
Std Dev 342.5
2
1
0
−1
−2
−3

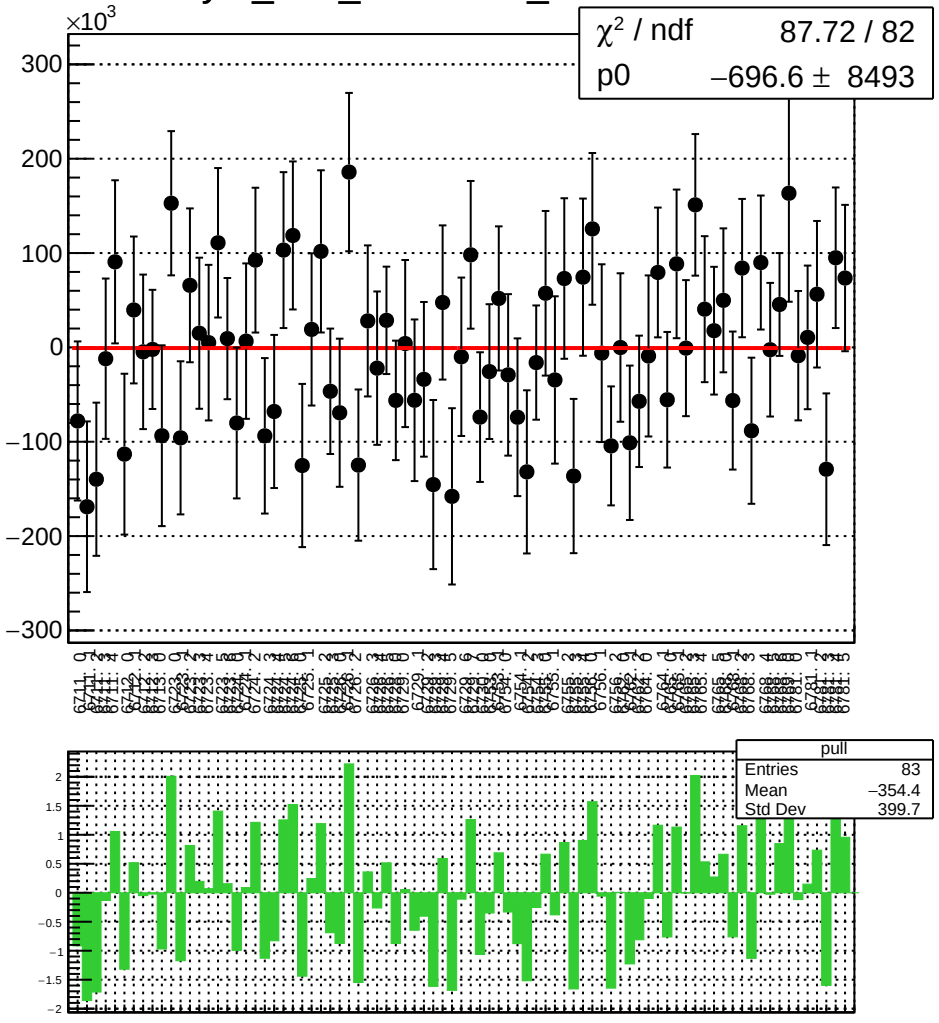

pull1D
Entries 83
Mean −0.007268
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

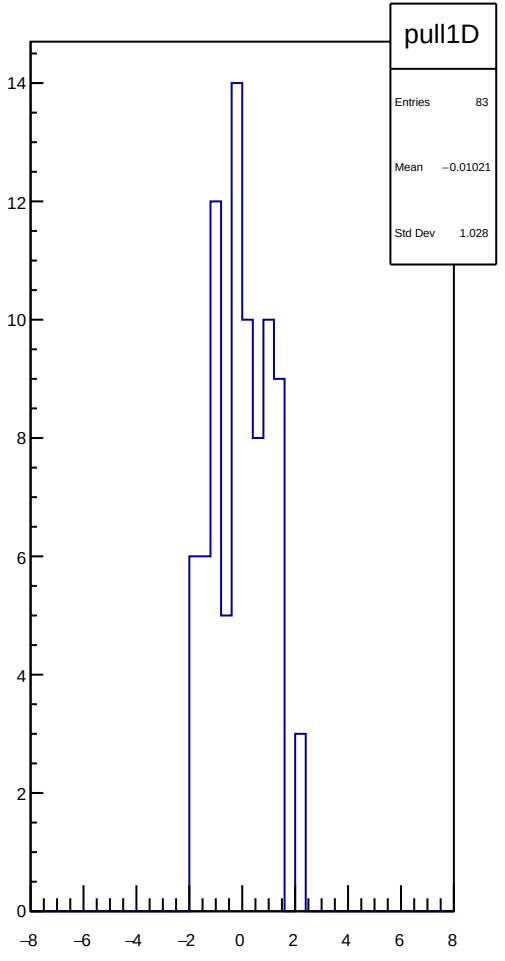

asym_atr1_rms vs run
χ^2 / ndf 1.242e+04 / 82
p0 2866 ± 2.25
10000
9000
8000
7000
6000
5000
4000
3000

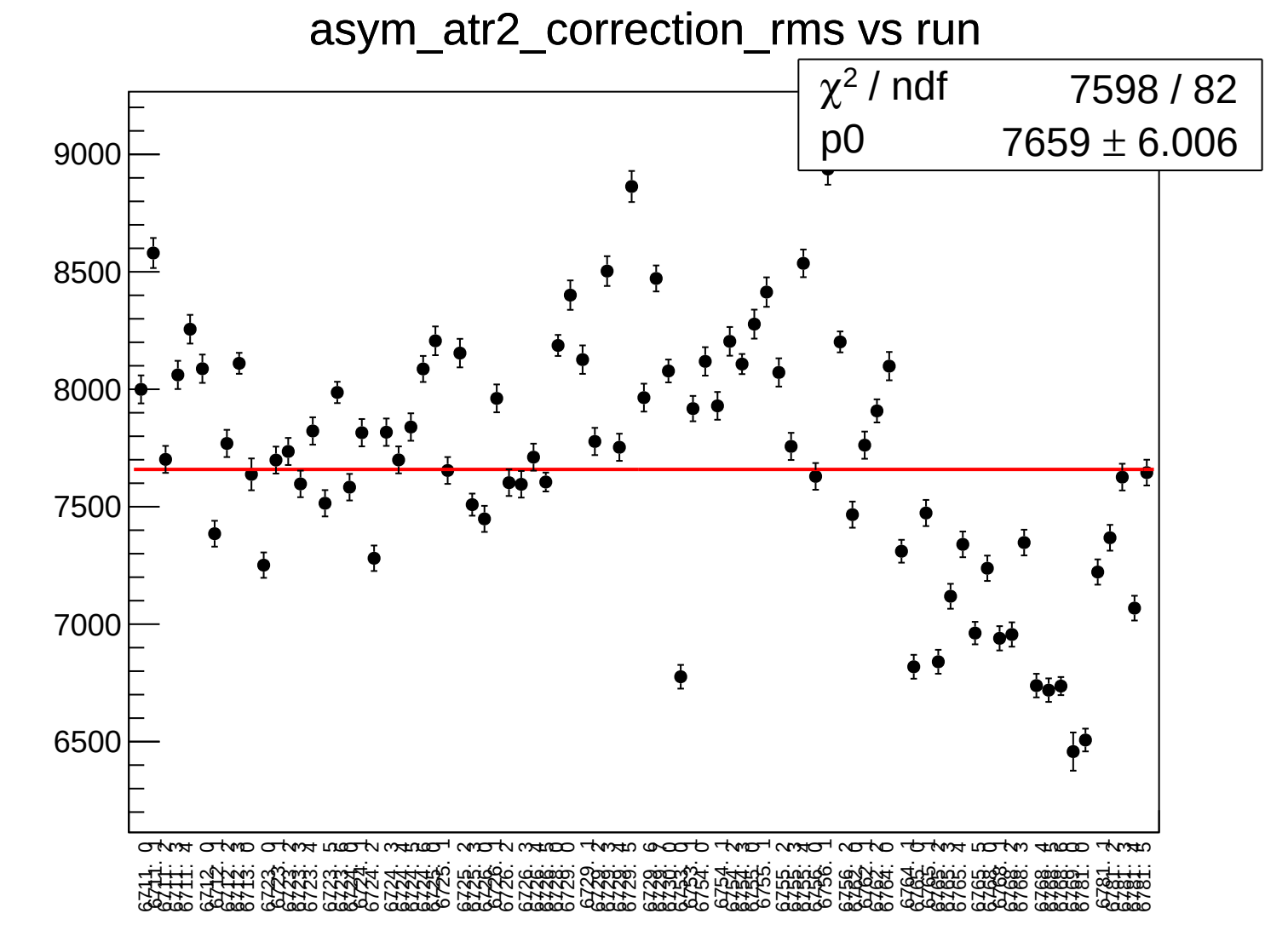

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 82.55 / 82
p0 −3625 ± 2935
pull
Entries 83
Mean −363.4
Std Dev 404.9

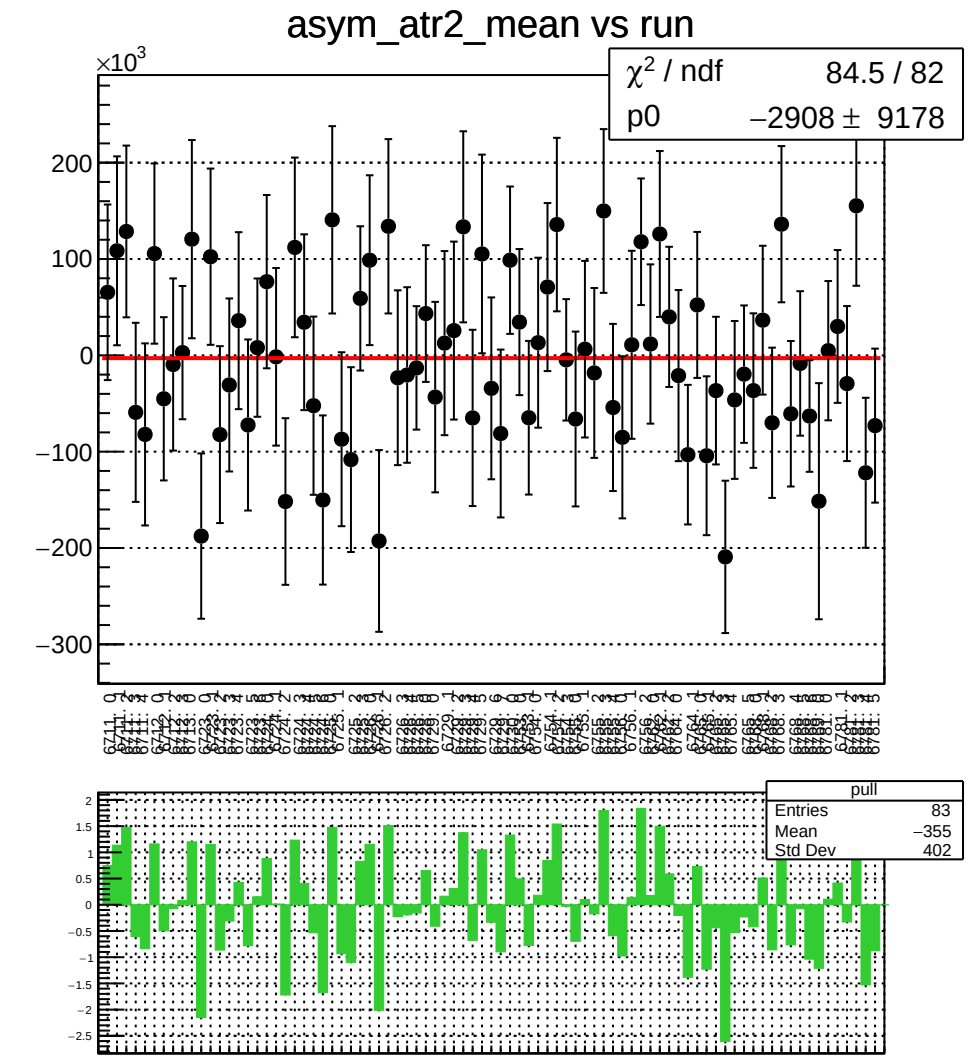

pull1D
Entries 83
Mean −0.009796
Std Dev 0.9973

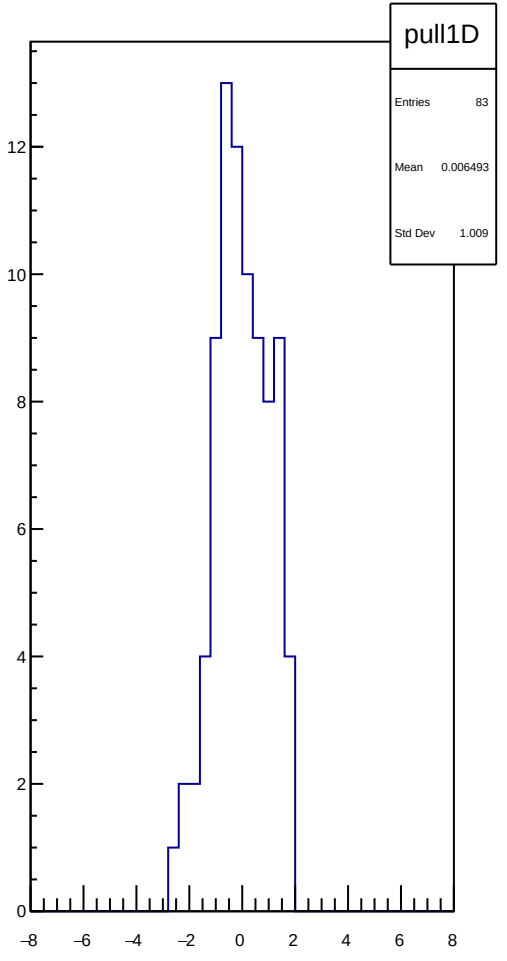

dit_asym_atr2_rms vs run
χ² / ndf 3913 / 82
p0 2649 ± 2.075
2900
2800
2700
2600
2500
2400

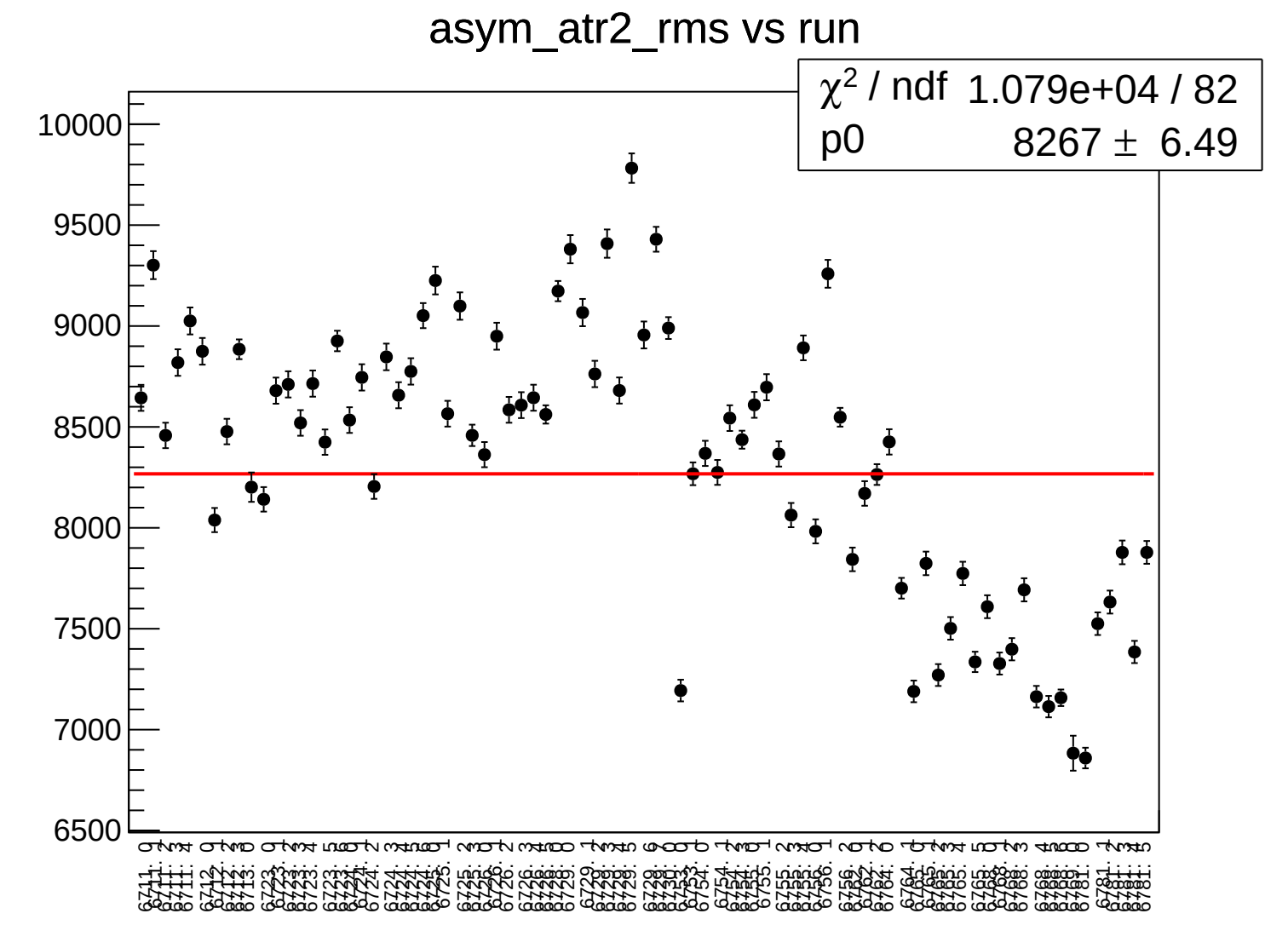

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 87.72 / 82
p0 −696.6 ± 8493
pull
Entries 83
Mean −354.4
Std Dev 399.7

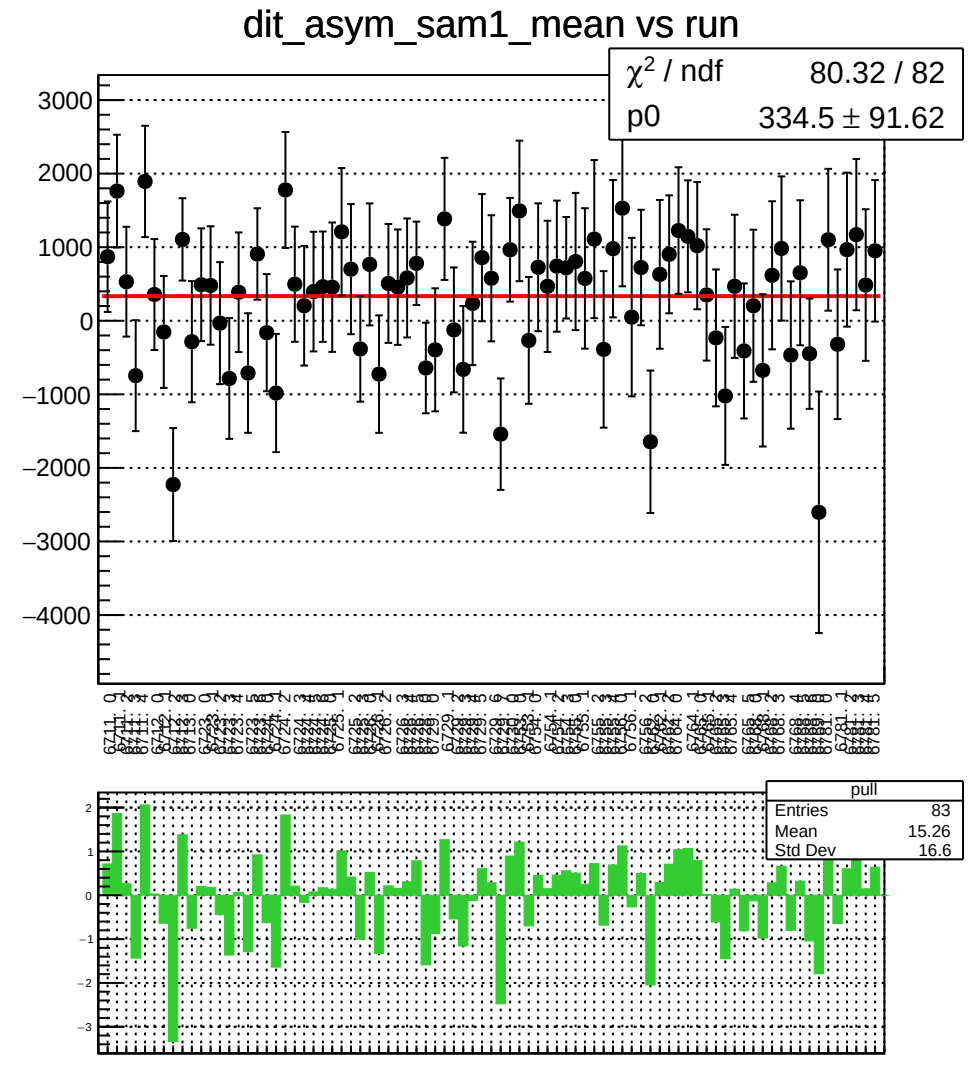

pull1D
Entries 83
Mean −0.01021
Std Dev 1.028

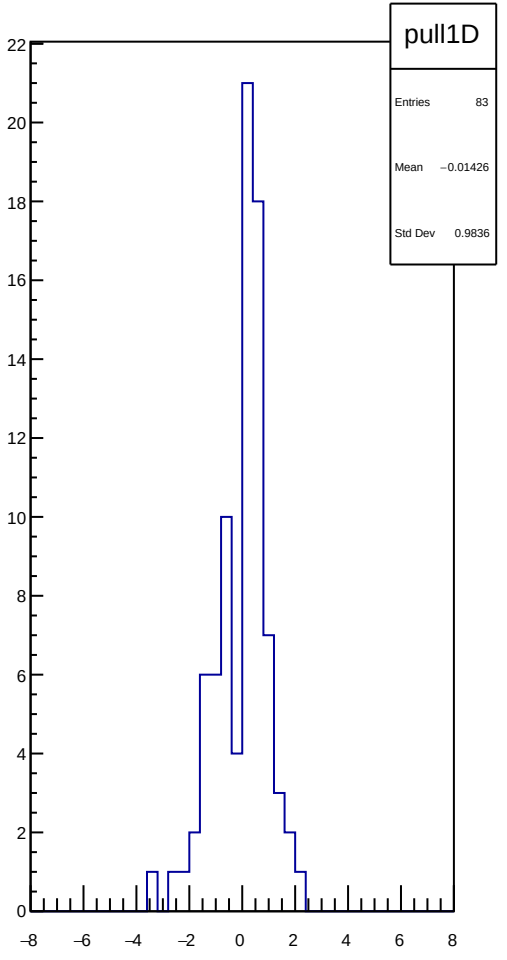

asym_atr2_correction_rms vs run
χ² / ndf 7598 / 82
p0 7659 ± 6.006
9000
8500
8000
7500
7000
6500

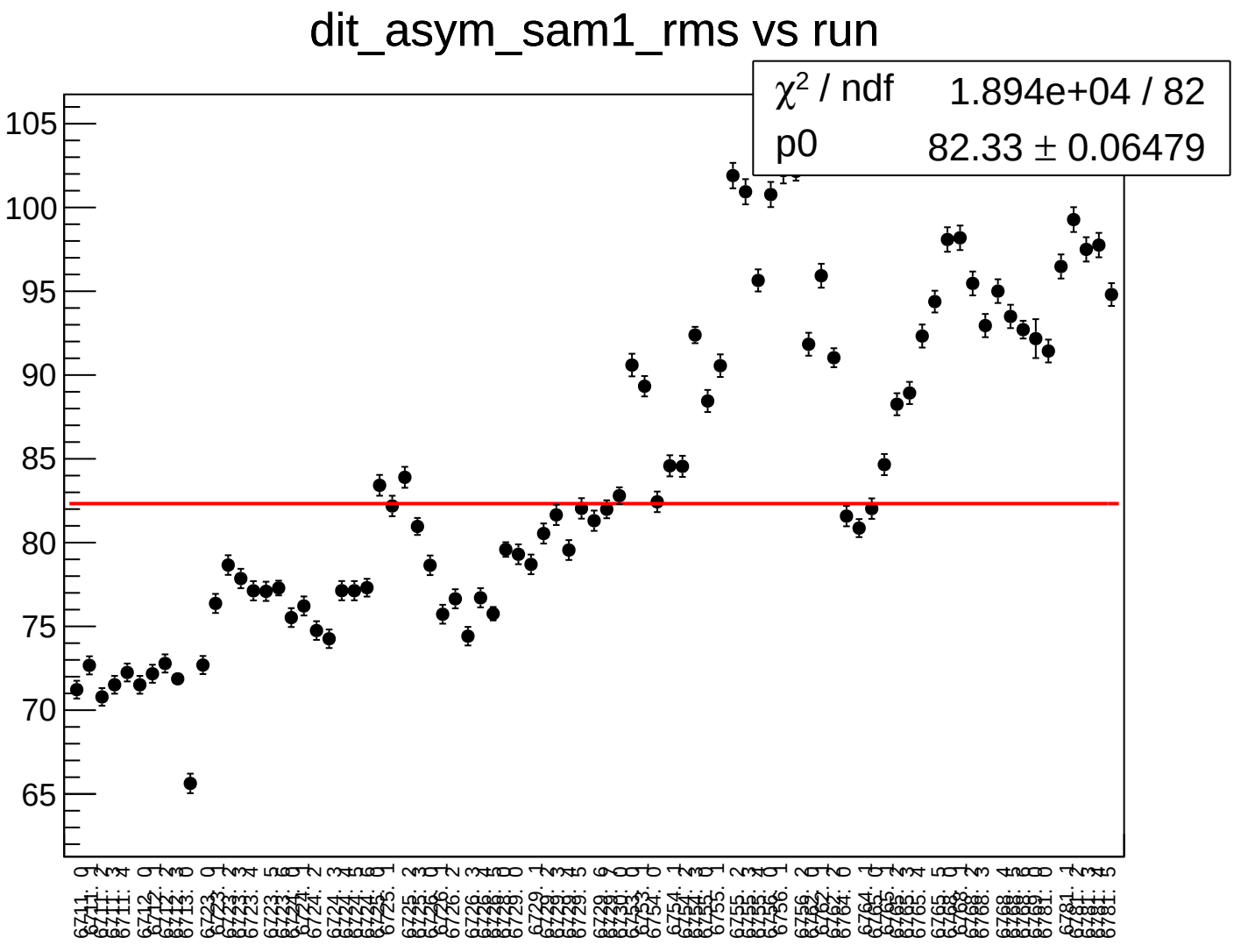

asym_atr2_mean vs run
×10^3
χ² / ndf 84.5 / 82
p0 −2908 ± 9178
200
100
0
−100
−200
−300
pull
Entries 83
Mean −355
Std Dev 402
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

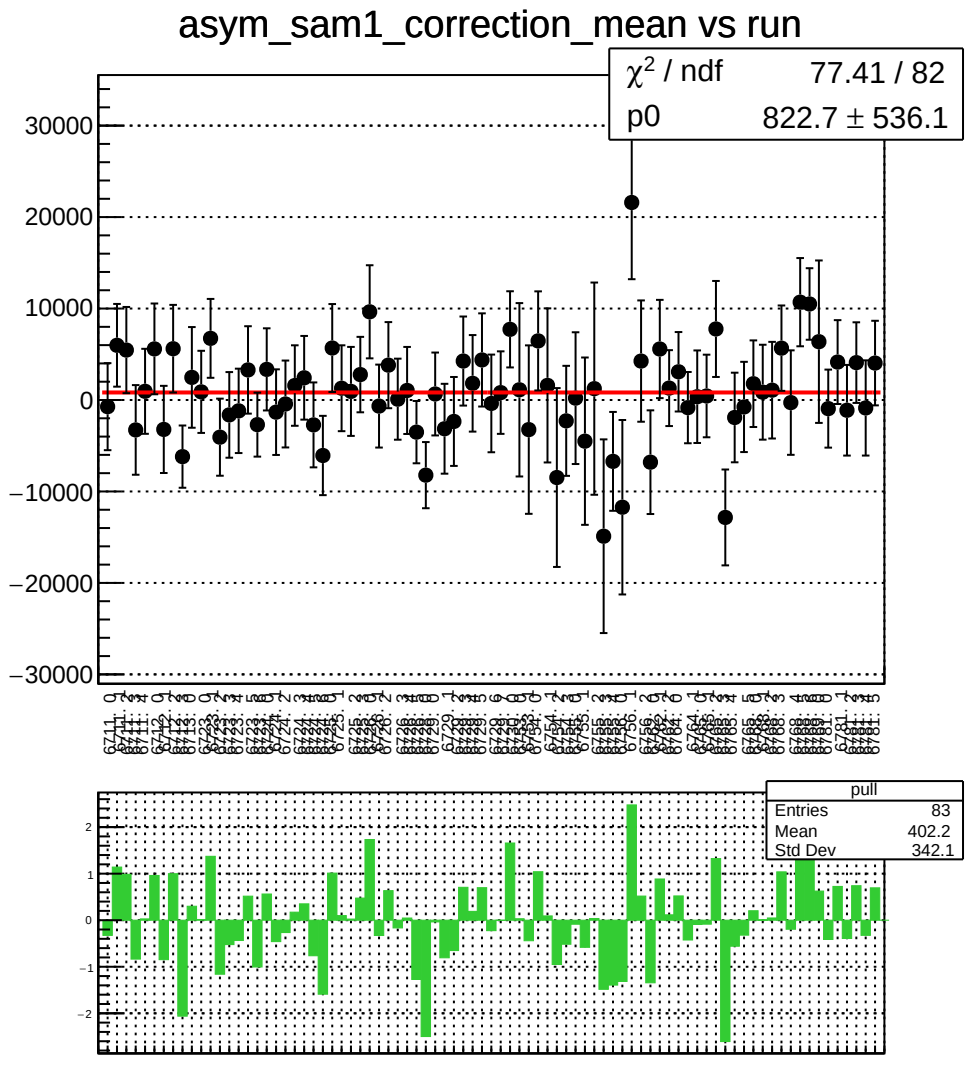

pull1D
Entries 83
Mean 0.006493
Std Dev 1.009
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

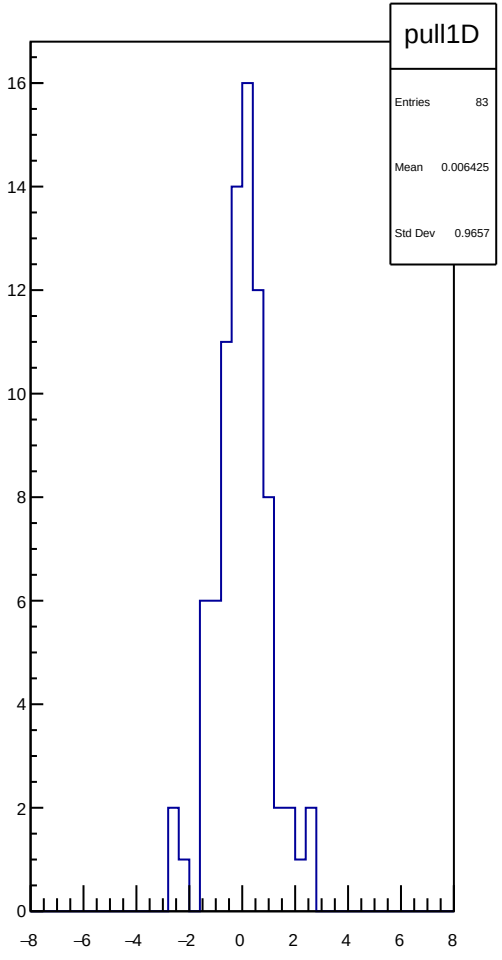

asym_atr2_rms vs run
χ² / ndf 1.079e+04 / 82
p0 8267 ± 6.49
10000
9500
9000
8500
8000
7500
7000
6500

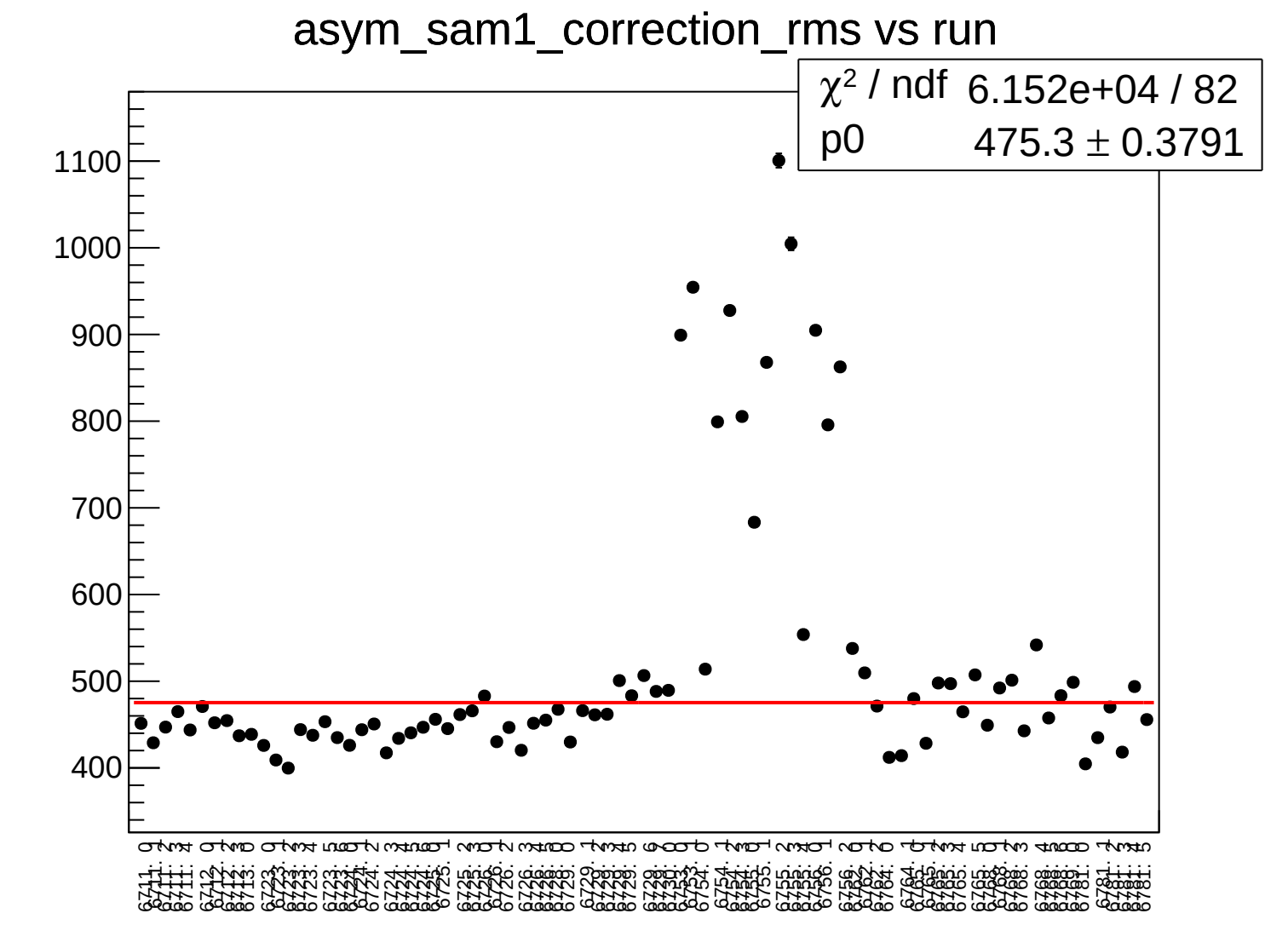

dit_asym_sam1_mean vs run
χ² / ndf 80.32 / 82
p0 334.5 ± 91.62
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 83
Mean 15.26
Std Dev 16.6
2
1
0
−1
−2
−3

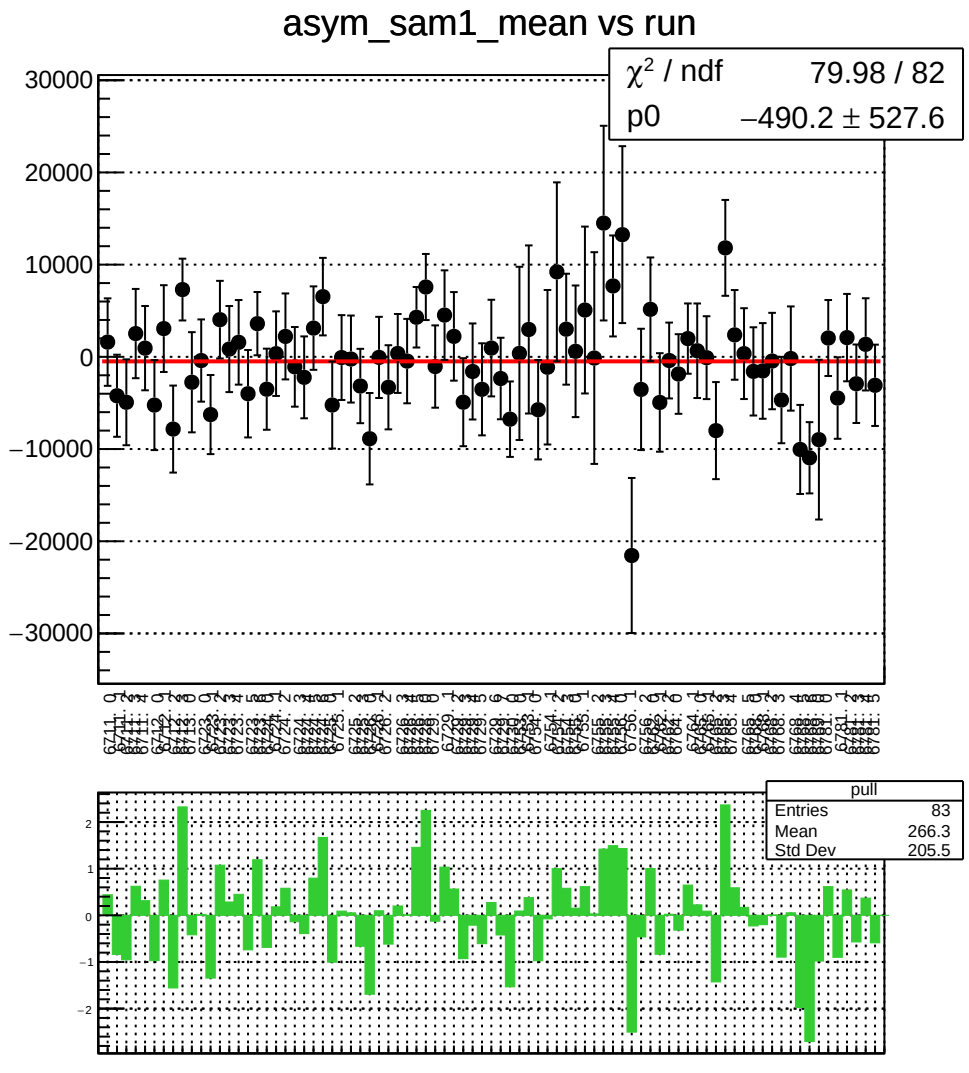

pull1D
Entries 83
Mean −0.01426
Std Dev 0.9836
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

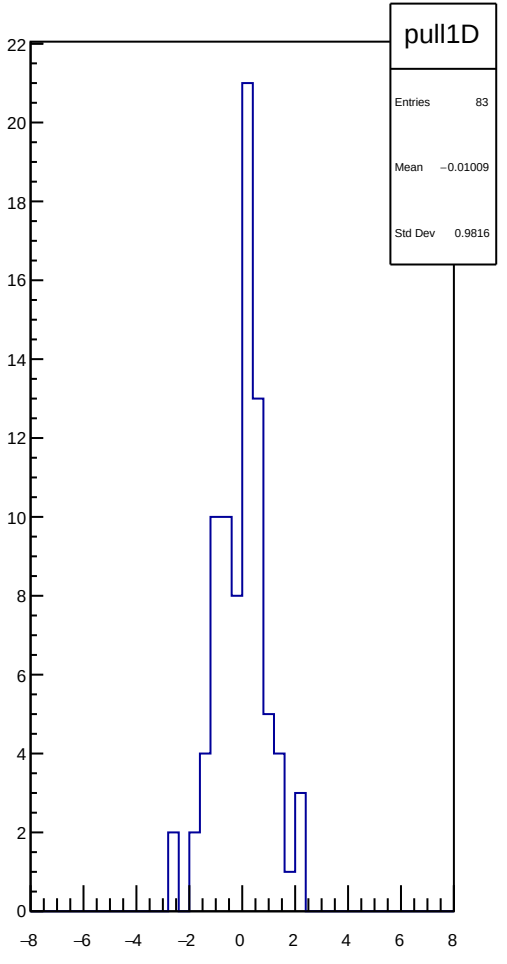

dit_asym_sam1_rms vs run
χ² / ndf 1.894e+04 / 82
p0 82.33 ± 0.06479
105
100
95
90
85
80
75
70
65

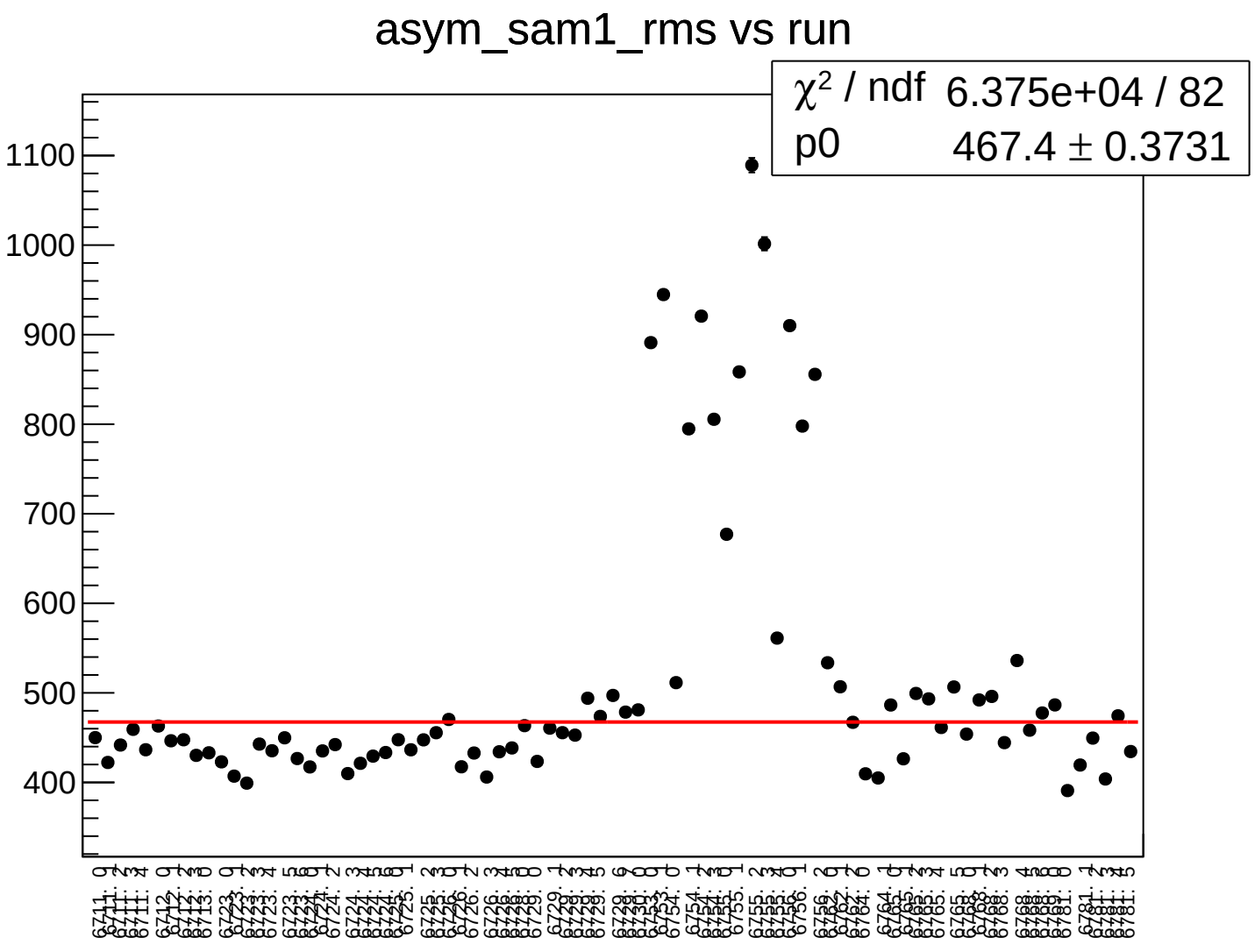

asym_sam1_correction_mean vs run
χ² / ndf 77.41 / 82
p0 822.7 ± 536.1
pull
Entries 83
Mean 402.2
Std Dev 342.1

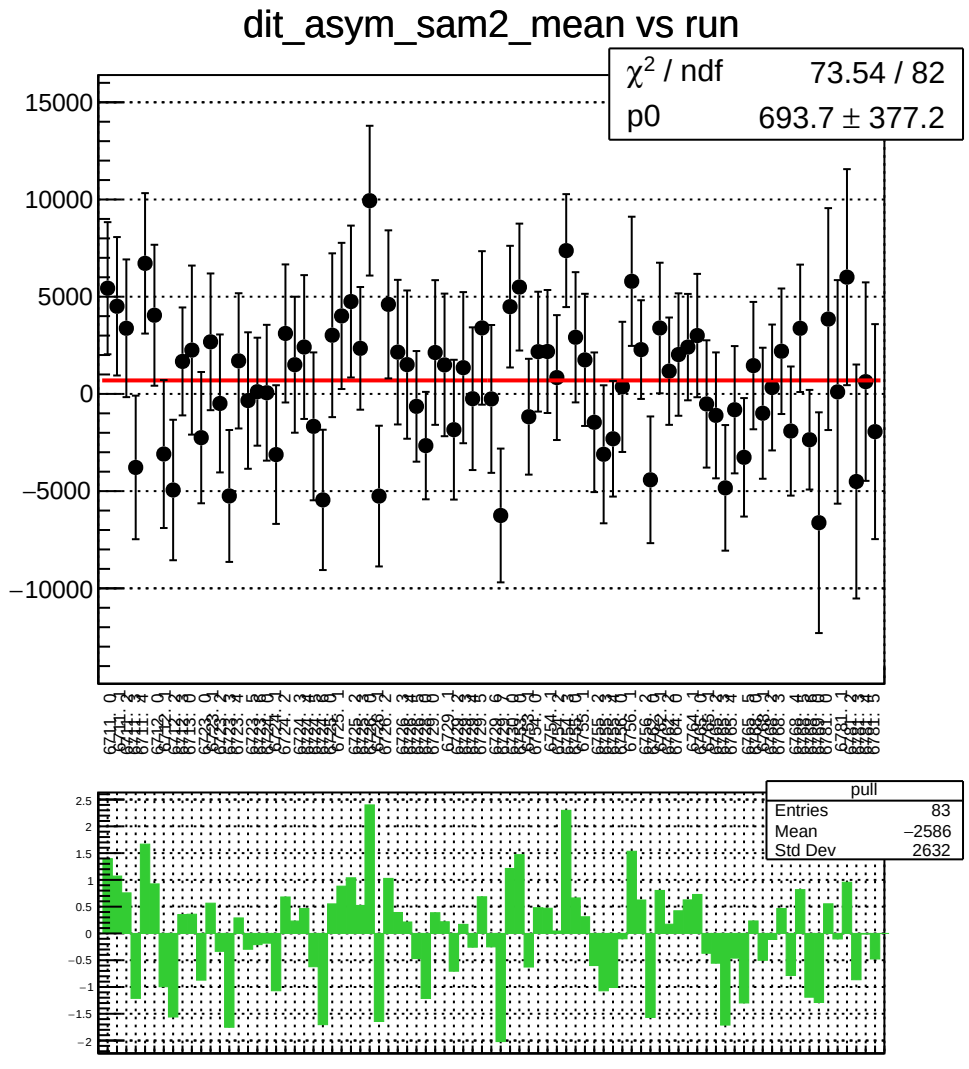

pull1D
Entries 83
Mean 0.006425
Std Dev 0.9657

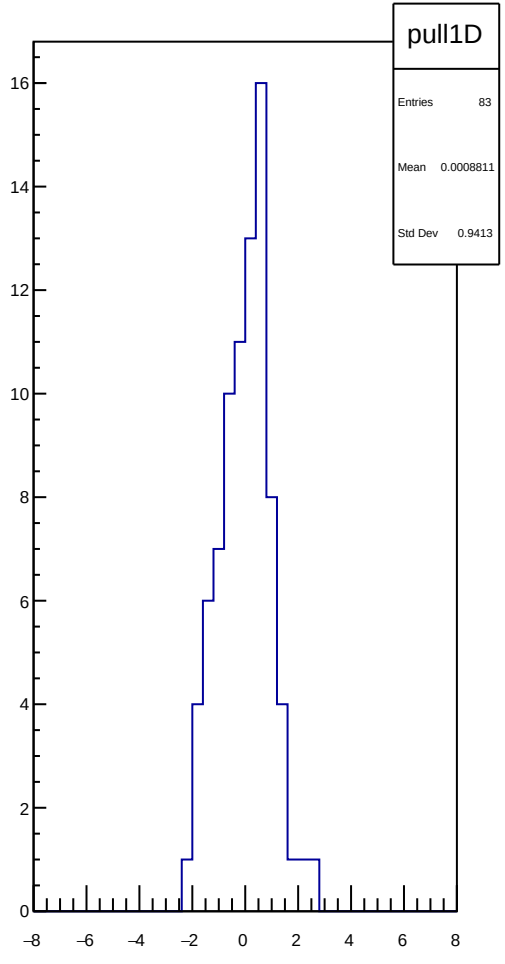

asym_sam1_correction_rms vs run
χ² / ndf 6.152e+04 / 82
p0 475.3 ± 0.3791
1100
1000
900
800
700
600
500
400

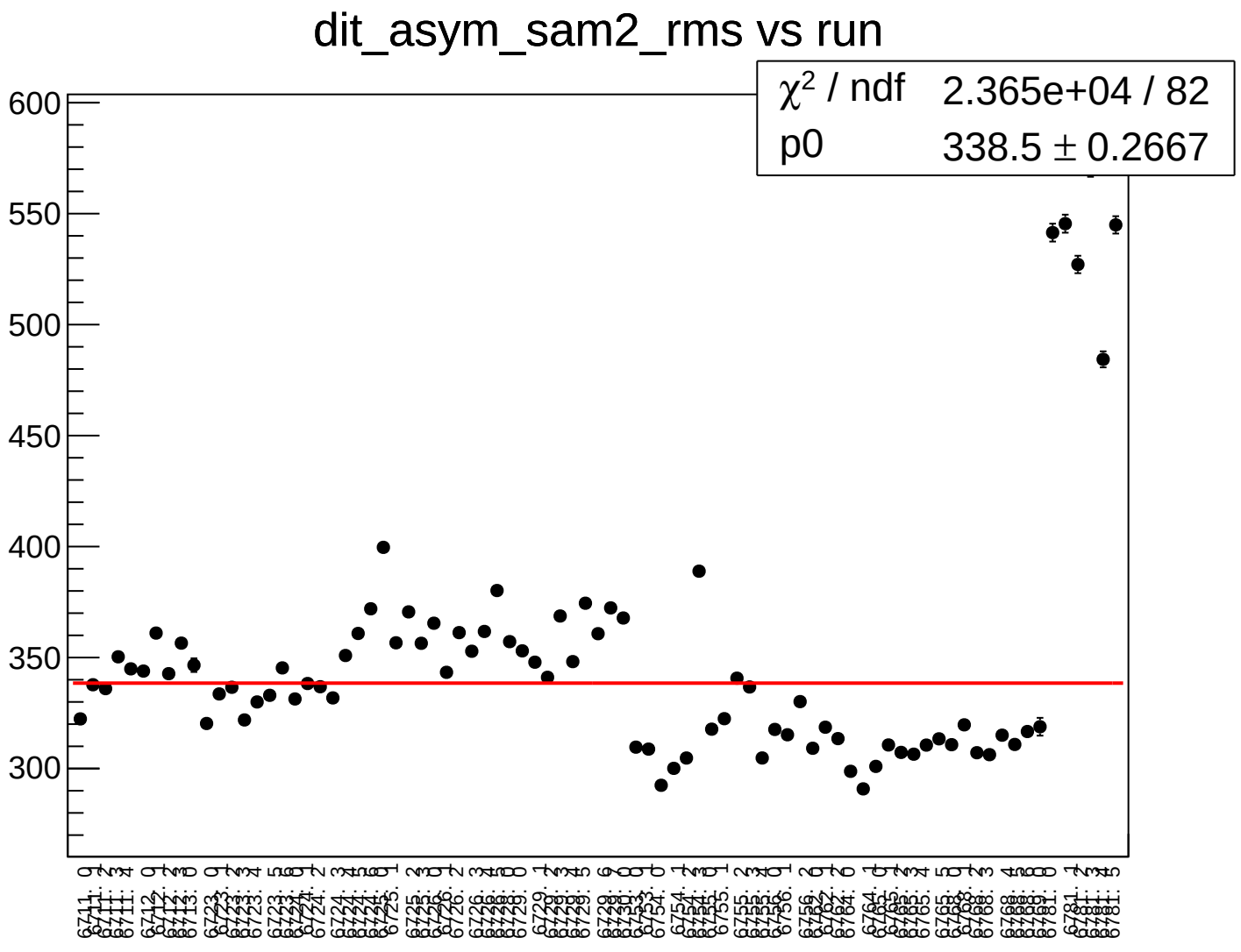

asym_sam1_mean vs run
χ² / ndf 79.98 / 82
p0 −490.2 ± 527.6
pull
Entries 83
Mean 266.3
Std Dev 205.5

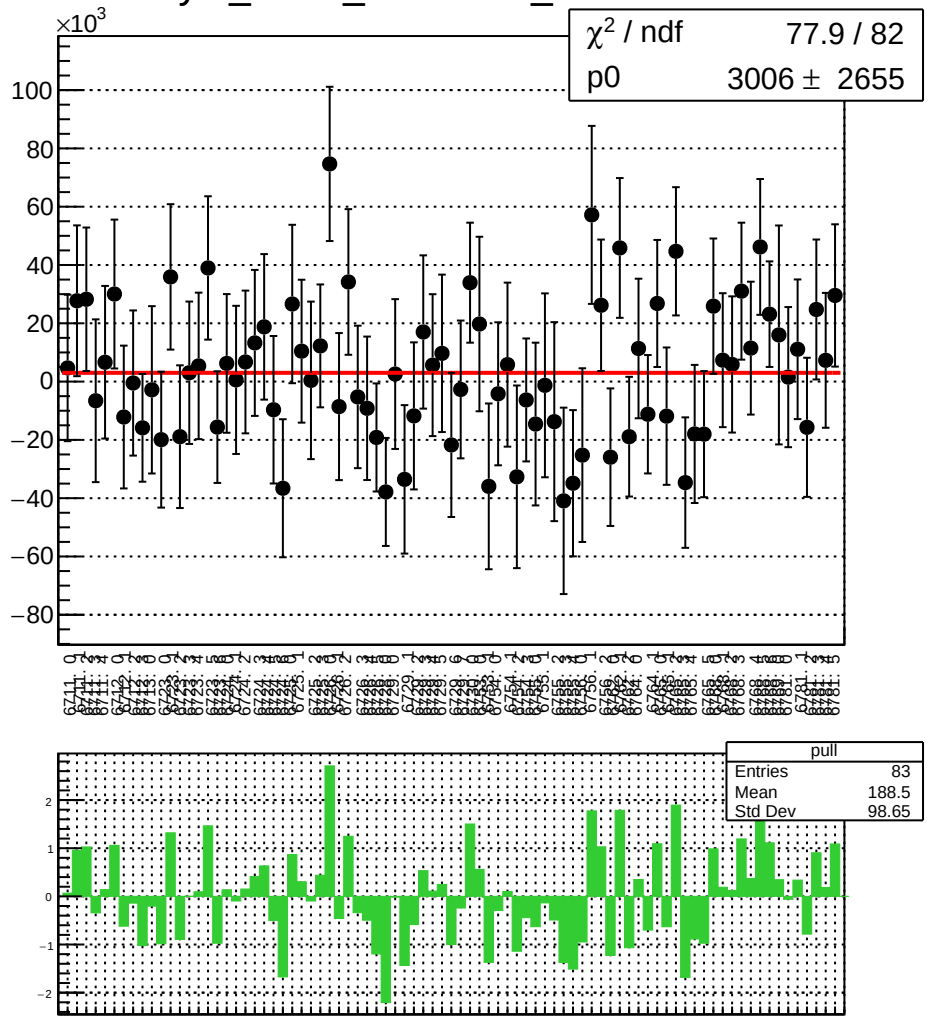

pull1D
Entries 83
Mean −0.01009
Std Dev 0.9816

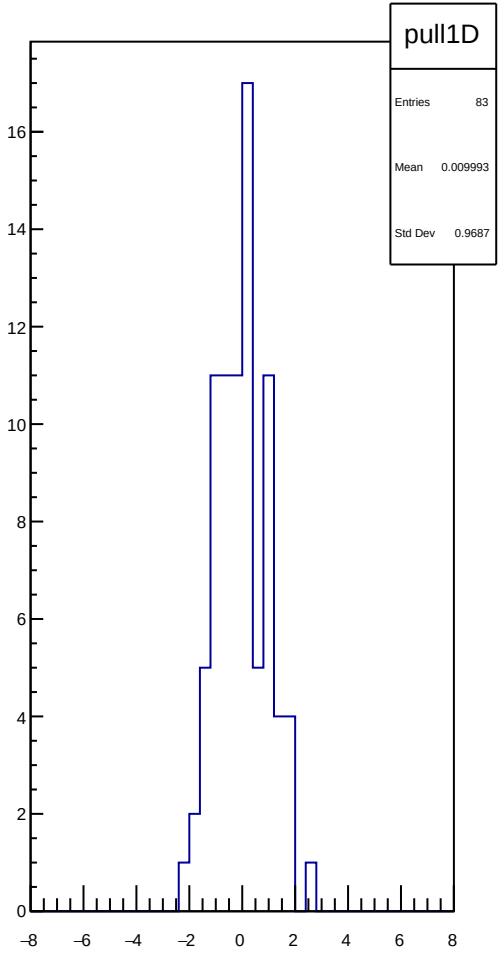

asym_sam1_rms vs run
χ² / ndf 6.375e+04 / 82
p0 467.4 ± 0.3731
1100
1000
900
800
700
600
500
400

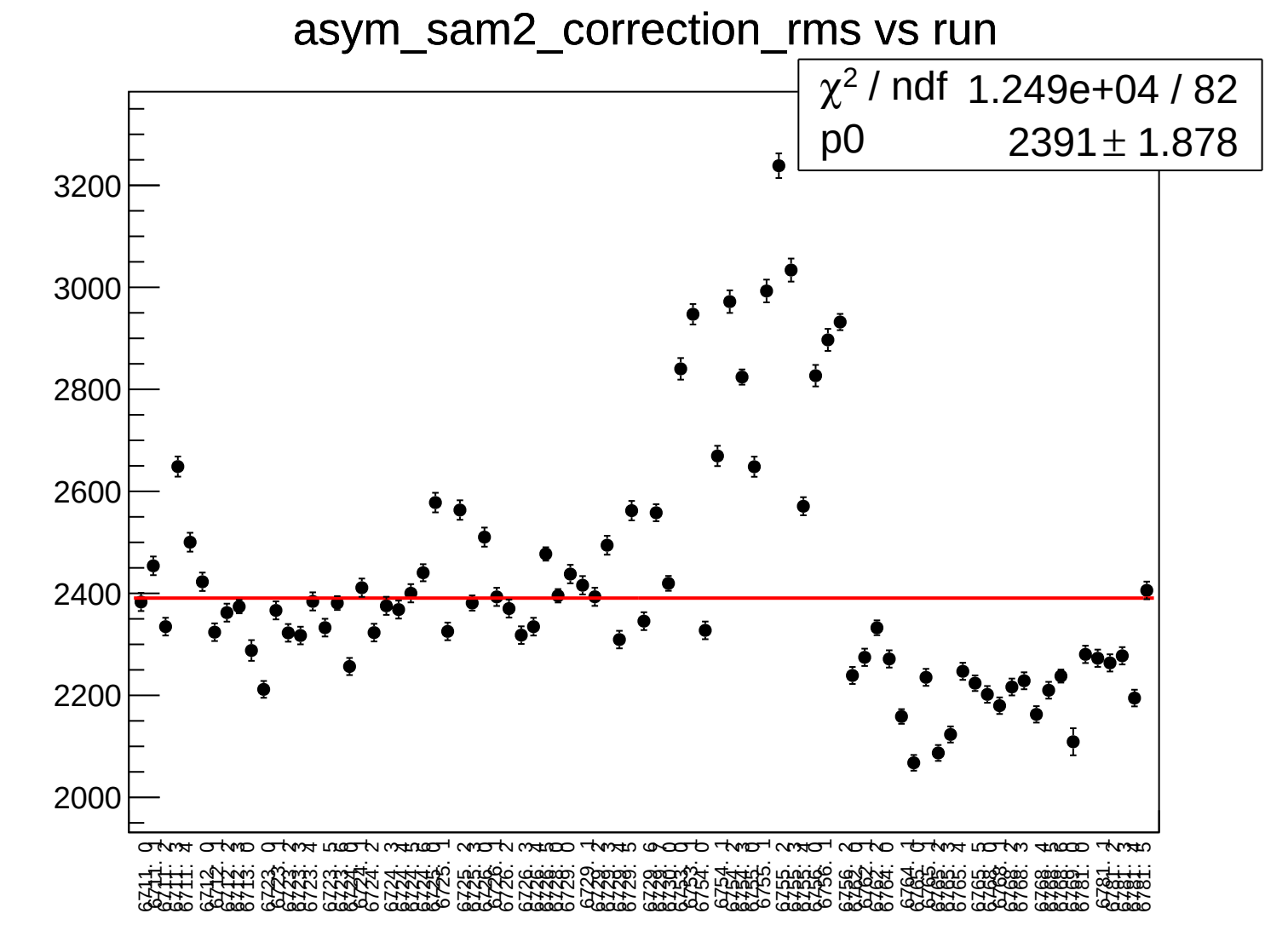

dit_asym_sam2_mean vs run
χ² / ndf 73.54 / 82
p0 693.7 ± 377.2
15000
10000
5000
0
−5000
−10000
pull
Entries 83
Mean −2586
Std Dev 2632
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

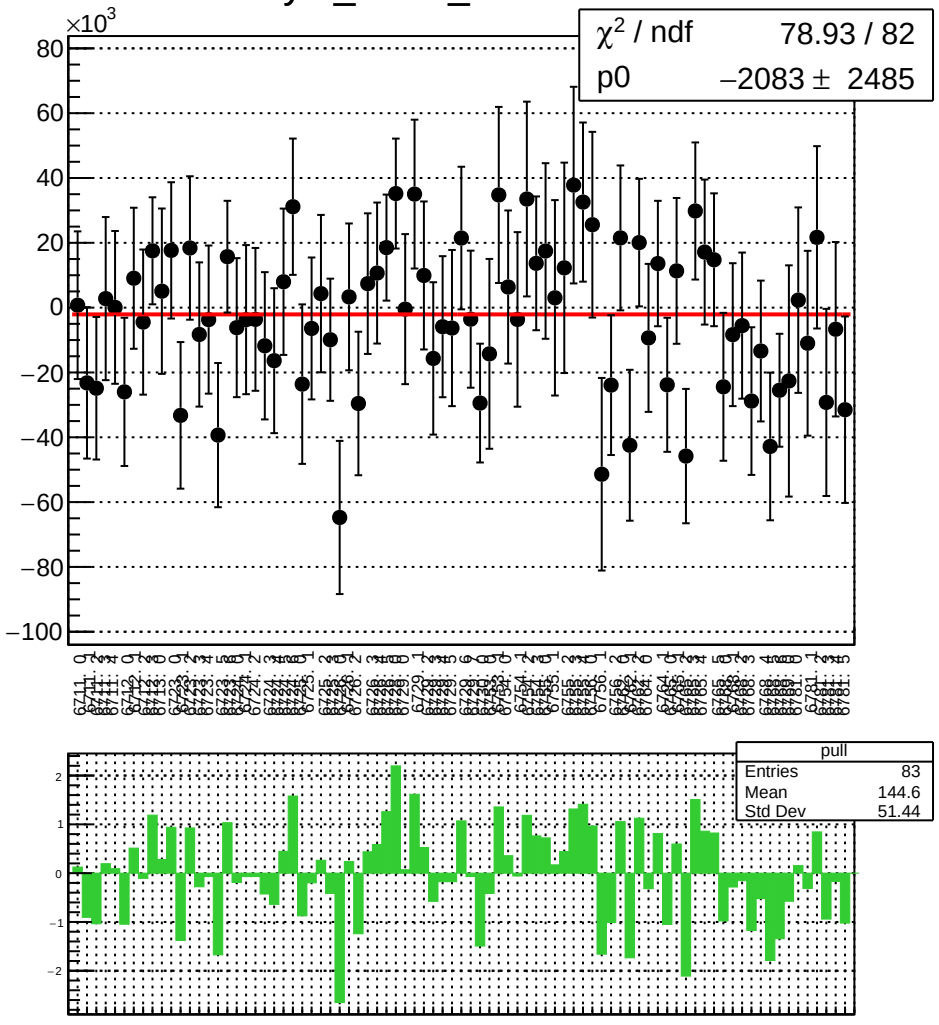

pull1D
Entries 83
Mean 0.0008811
Std Dev 0.9413
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

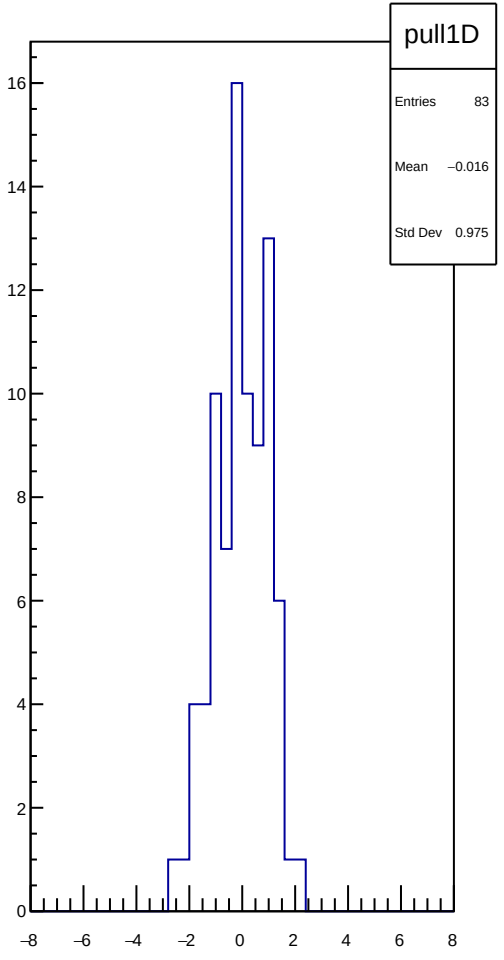

dit_asym_sam2_rms vs run
χ^2 / ndf 2.365e+04 / 82
p0 338.5 ± 0.2667
600
550
500
450
400
350
300

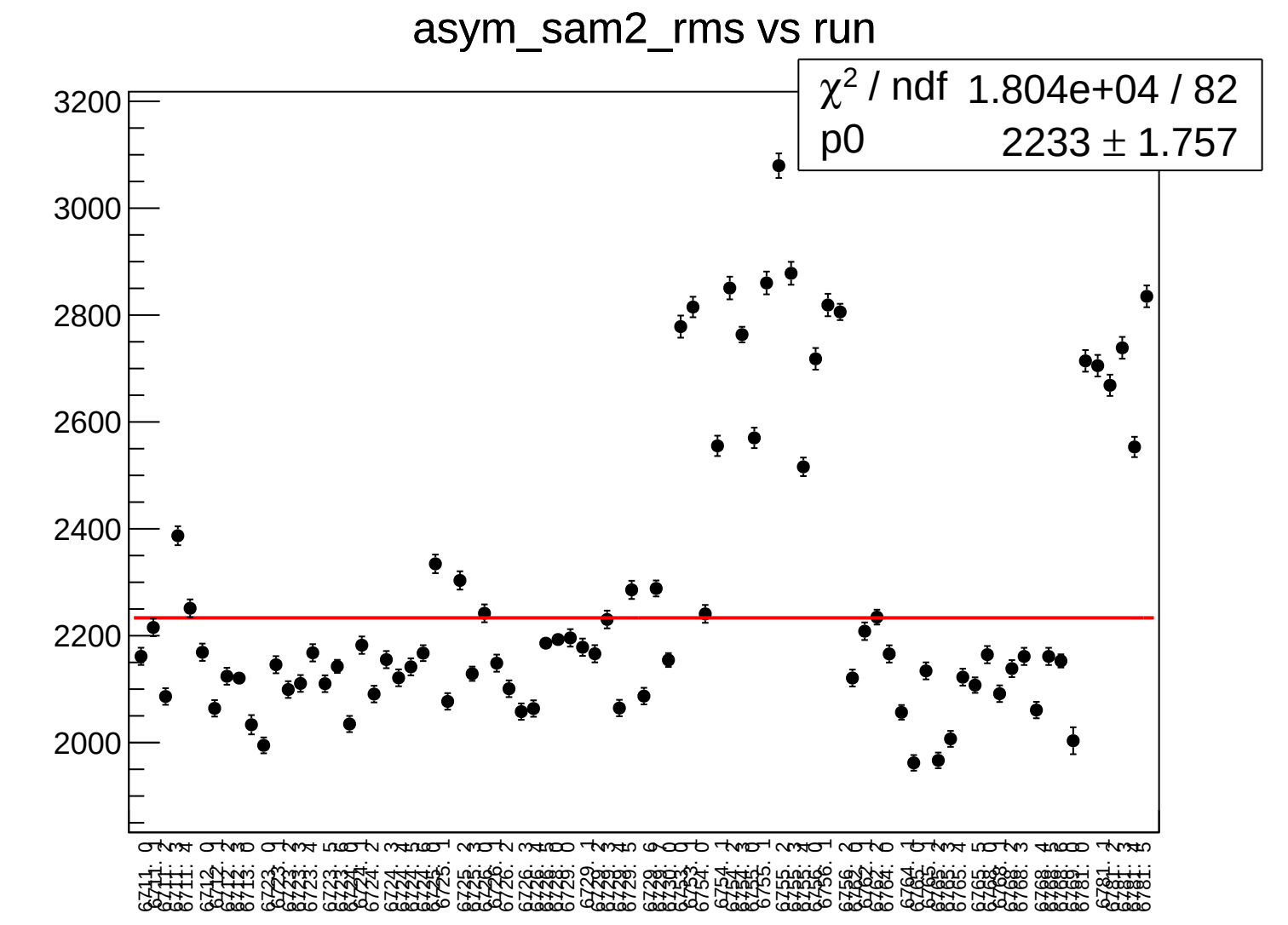

asym_sam2_correction_mean vs run
×10^3
χ^2 / ndf 77.9 / 82
p0 3006 ± 2655
pull
Entries 83
Mean 188.5
Std Dev 98.65

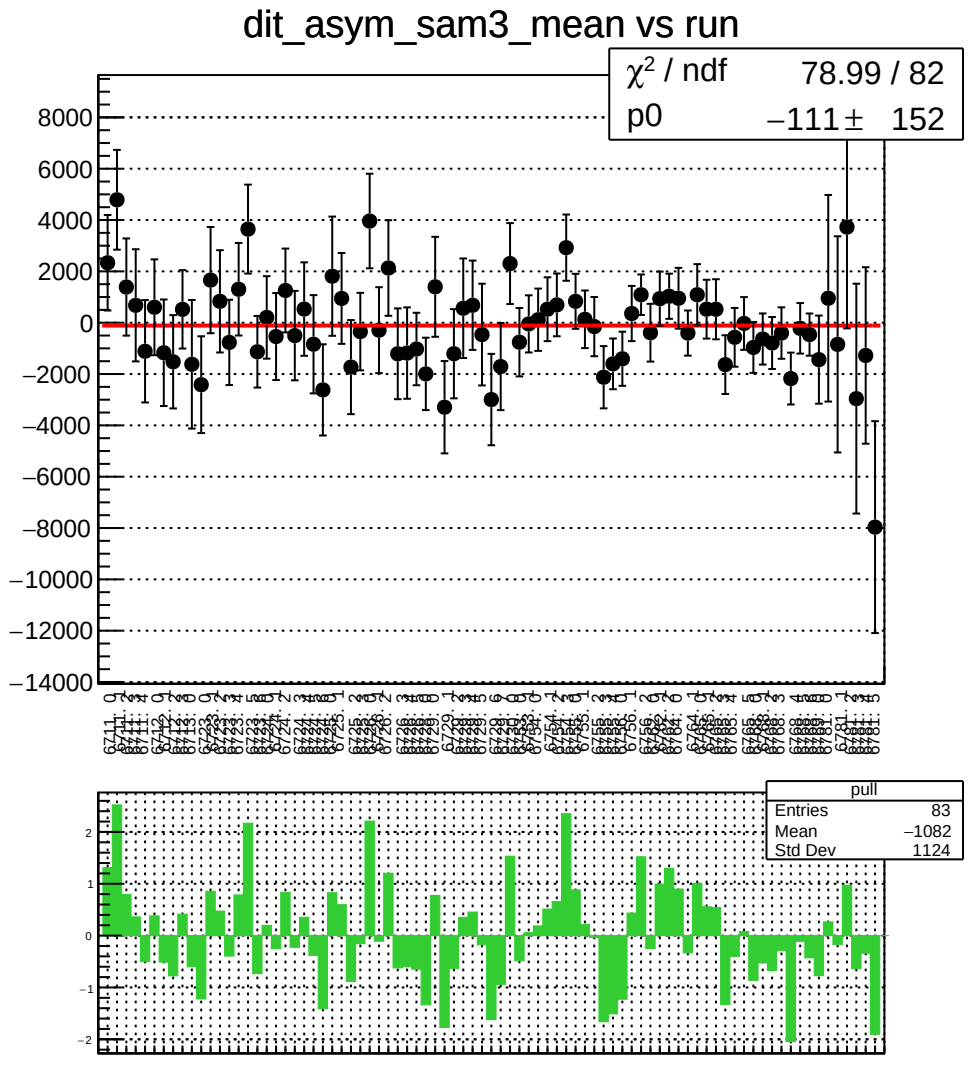

pull1D
Entries 83
Mean 0.009993
Std Dev 0.9687

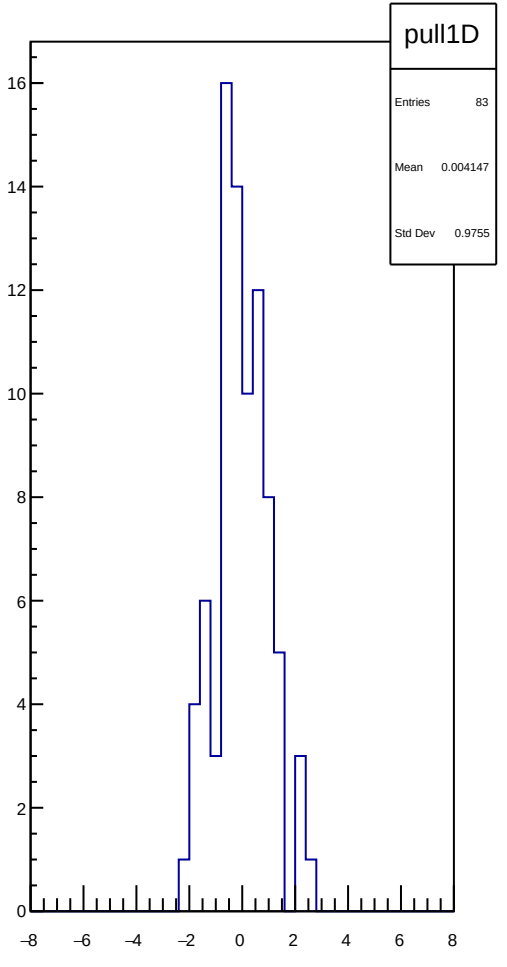

asym_sam2_correction_rms vs run
χ² / ndf 1.249e+04 / 82
p0 2391 ± 1.878
3200
3000
2800
2600
2400
2200
2000

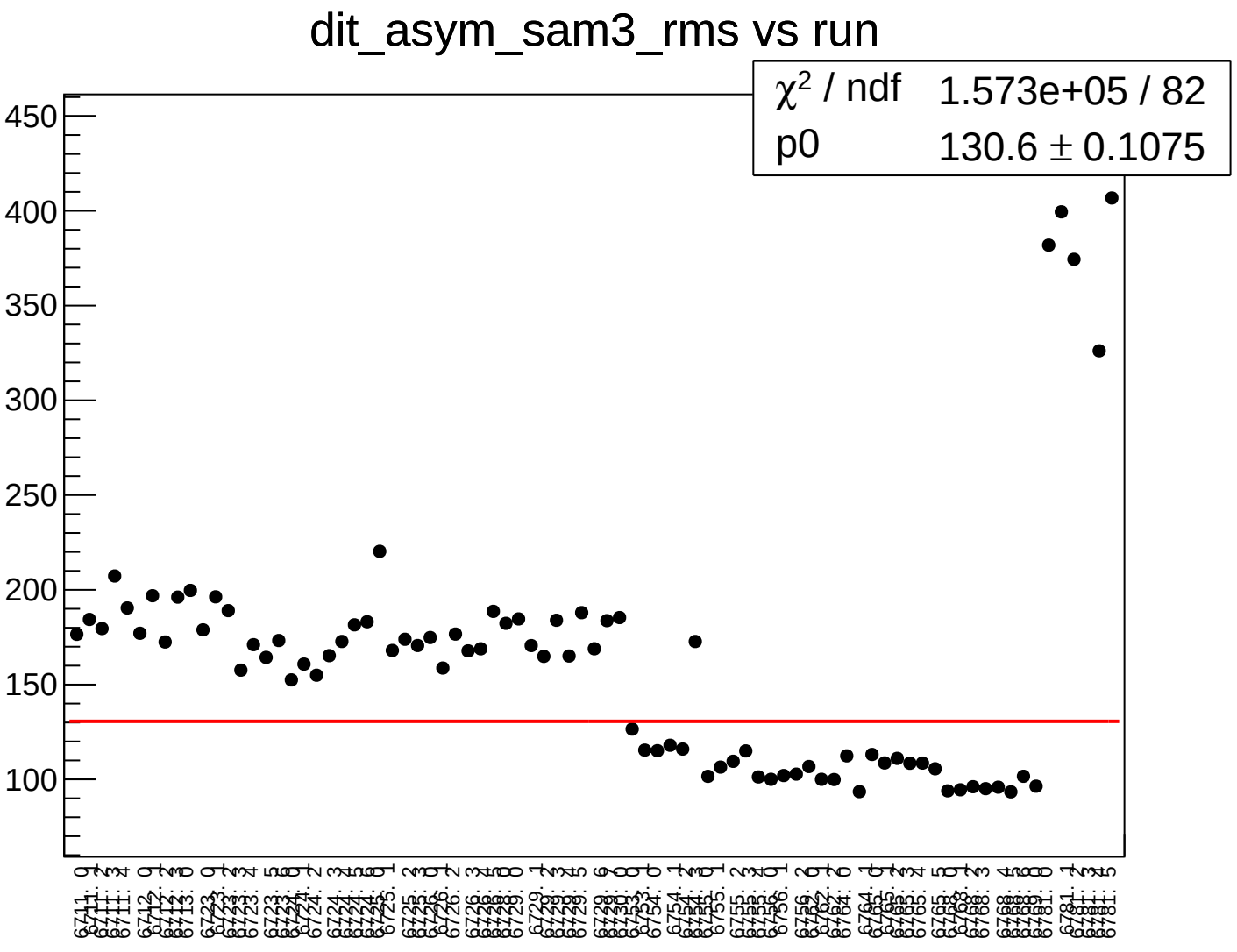

asym_sam2_mean vs run
×10^3
χ² / ndf 78.93 / 82
p0 −2083 ± 2485
pull
Entries 83
Mean 144.6
Std Dev 51.44

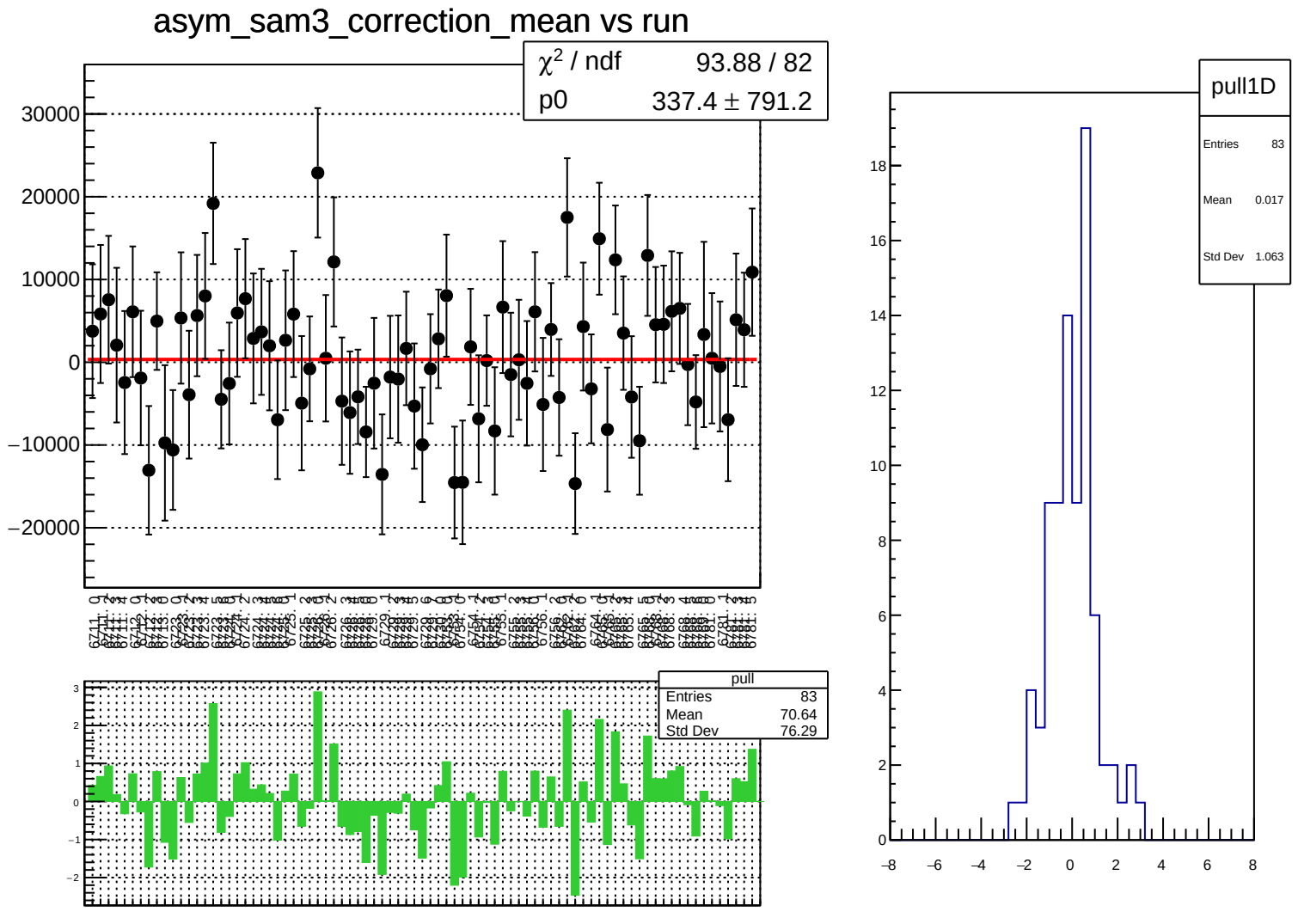

pull1D
Entries 83
Mean −0.016
Std Dev 0.975

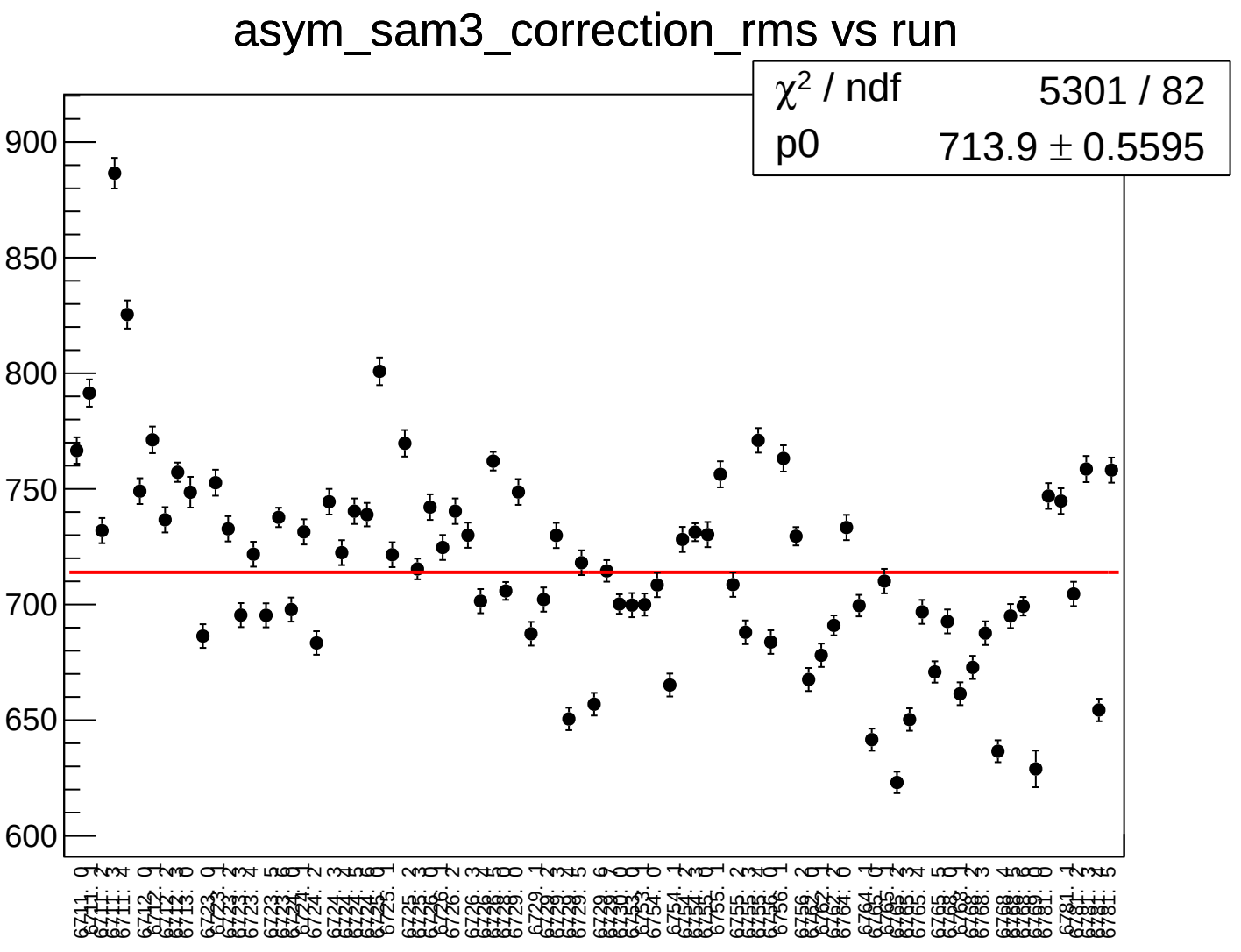

asym_sam2_rms vs run
χ² / ndf 1.804e+04 / 82
p0 2233 ± 1.757
3200
3000
2800
2600
2400
2200
2000

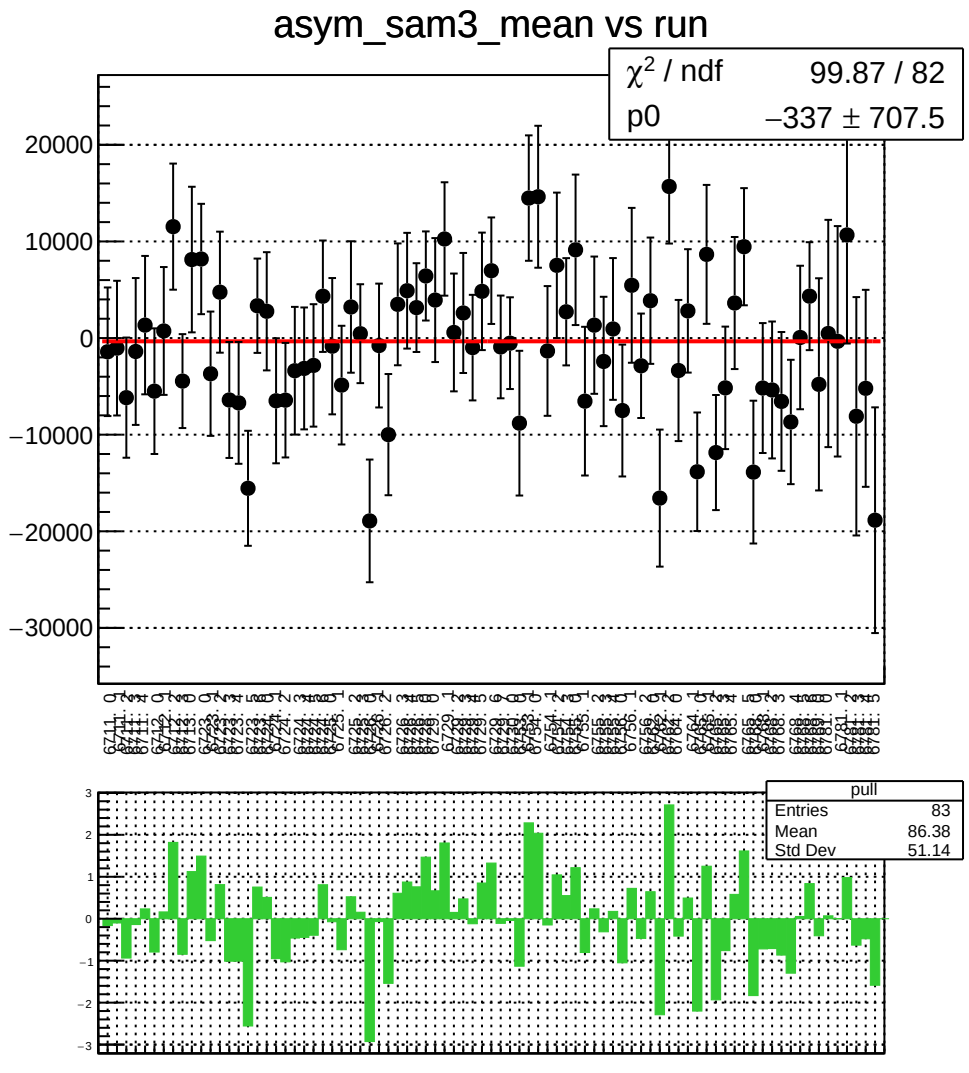

dit_asym_sam3_mean vs run
χ² / ndf 78.99 / 82
p0 −111 ± 152
pull
Entries 83
Mean −1082
Std Dev 1124

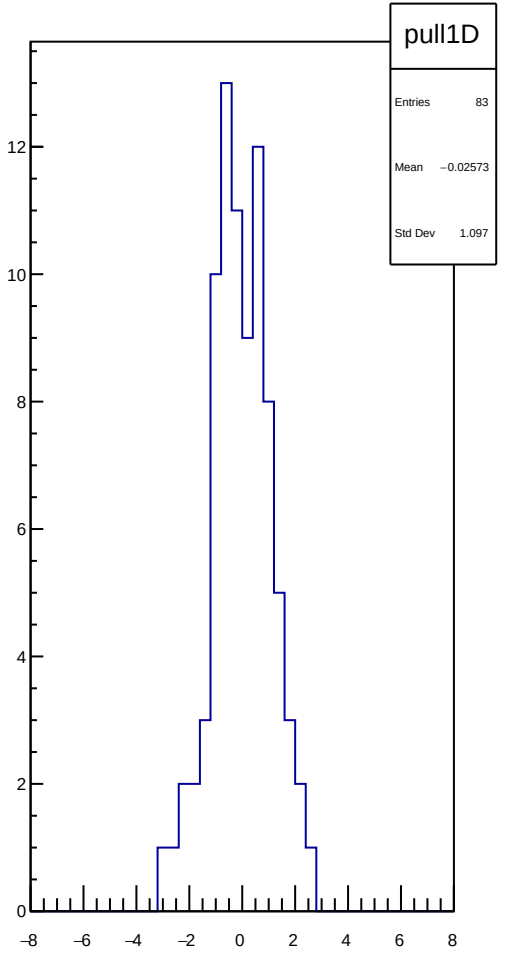

pull1D
Entries 83
Mean 0.004147
Std Dev 0.9755

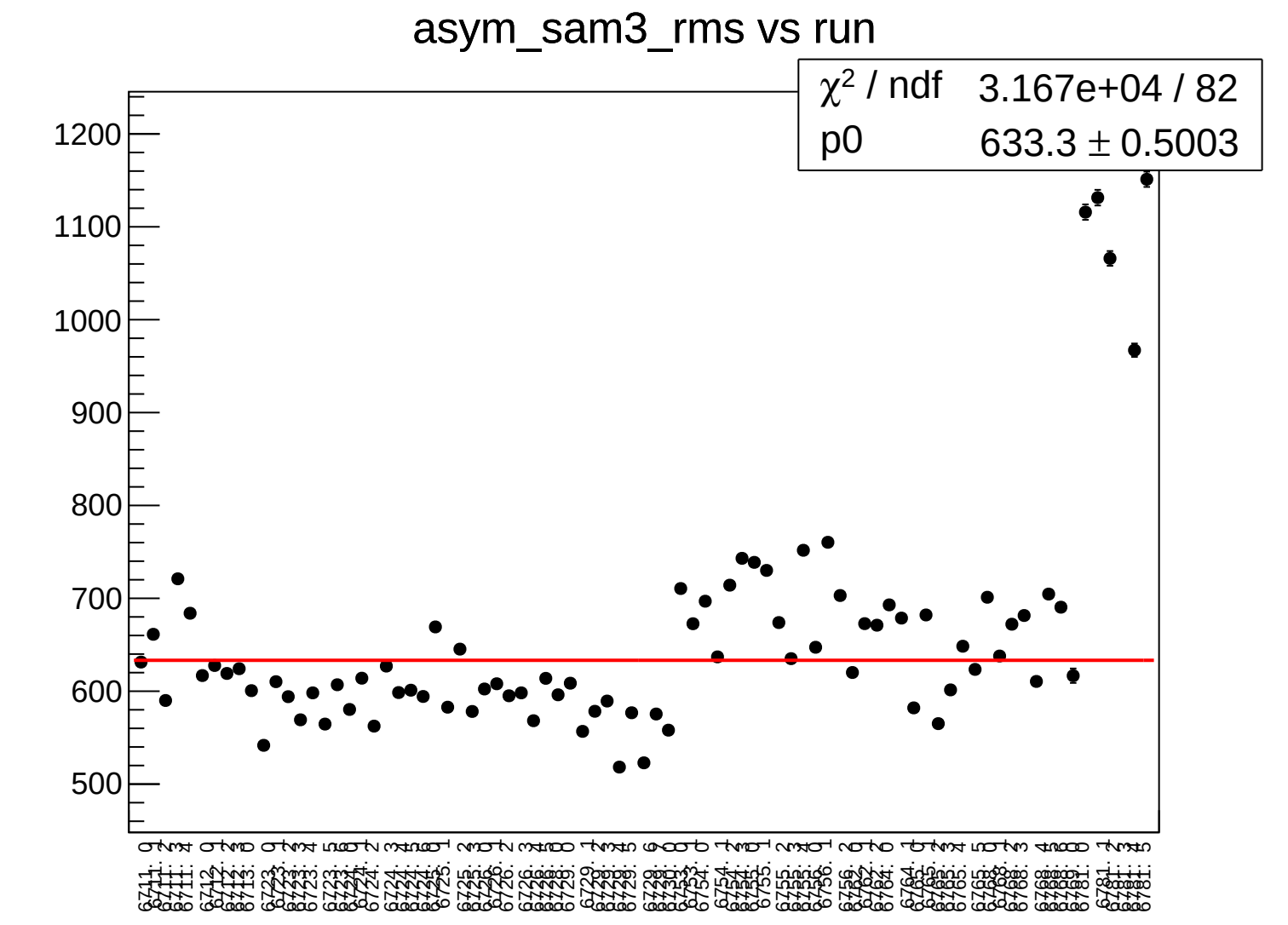

dit_asym_sam3_rms vs run
χ² / ndf 1.573e+05 / 82
p0 130.6 ± 0.1075
450
400
350
300
250
200
150
100

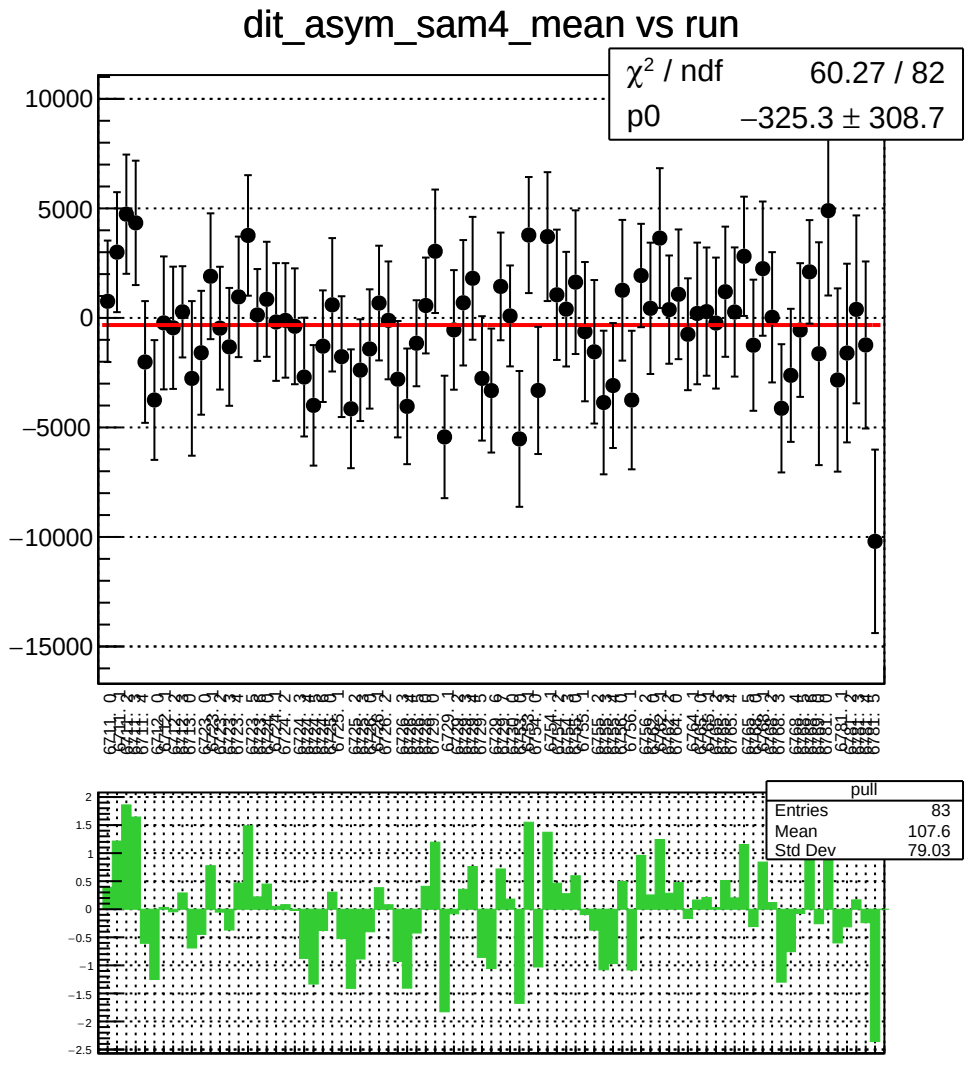

asym_sam3_correction_mean vs run
χ² / ndf 93.88 / 82
p0 337.4 ± 791.2
30000
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 70.64
Std Dev 76.29
3
2
1
0
−1
−2
pull1D
Entries 83
Mean 0.017
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

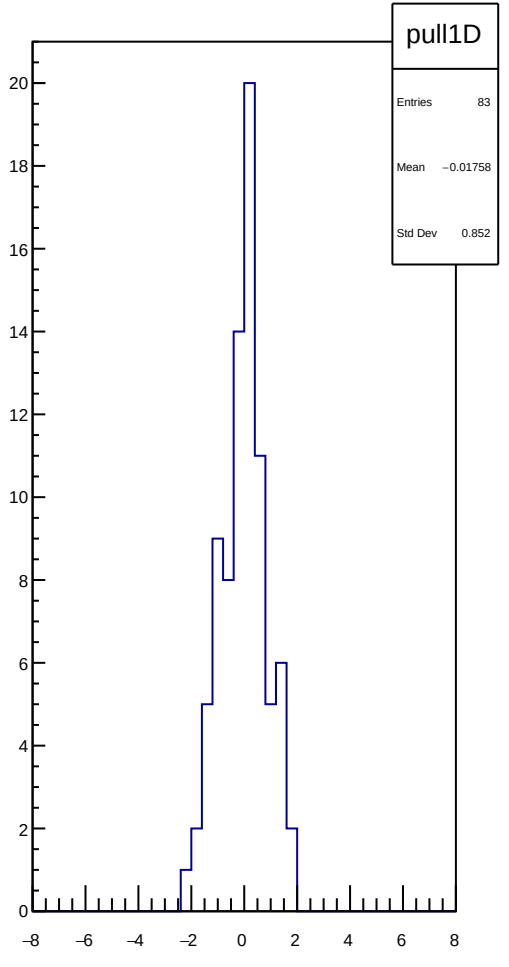

asym_sam3_correction_rms vs run
χ² / ndf 5301 / 82
p0 713.9 ± 0.5595
900
850
800
750
700
650
600


asym_sam3_mean vs run
χ² / ndf 99.87 / 82
p0 −337 ± 707.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean 86.38
Std Dev 51.14
3
2
1
0
−1
−2
−3

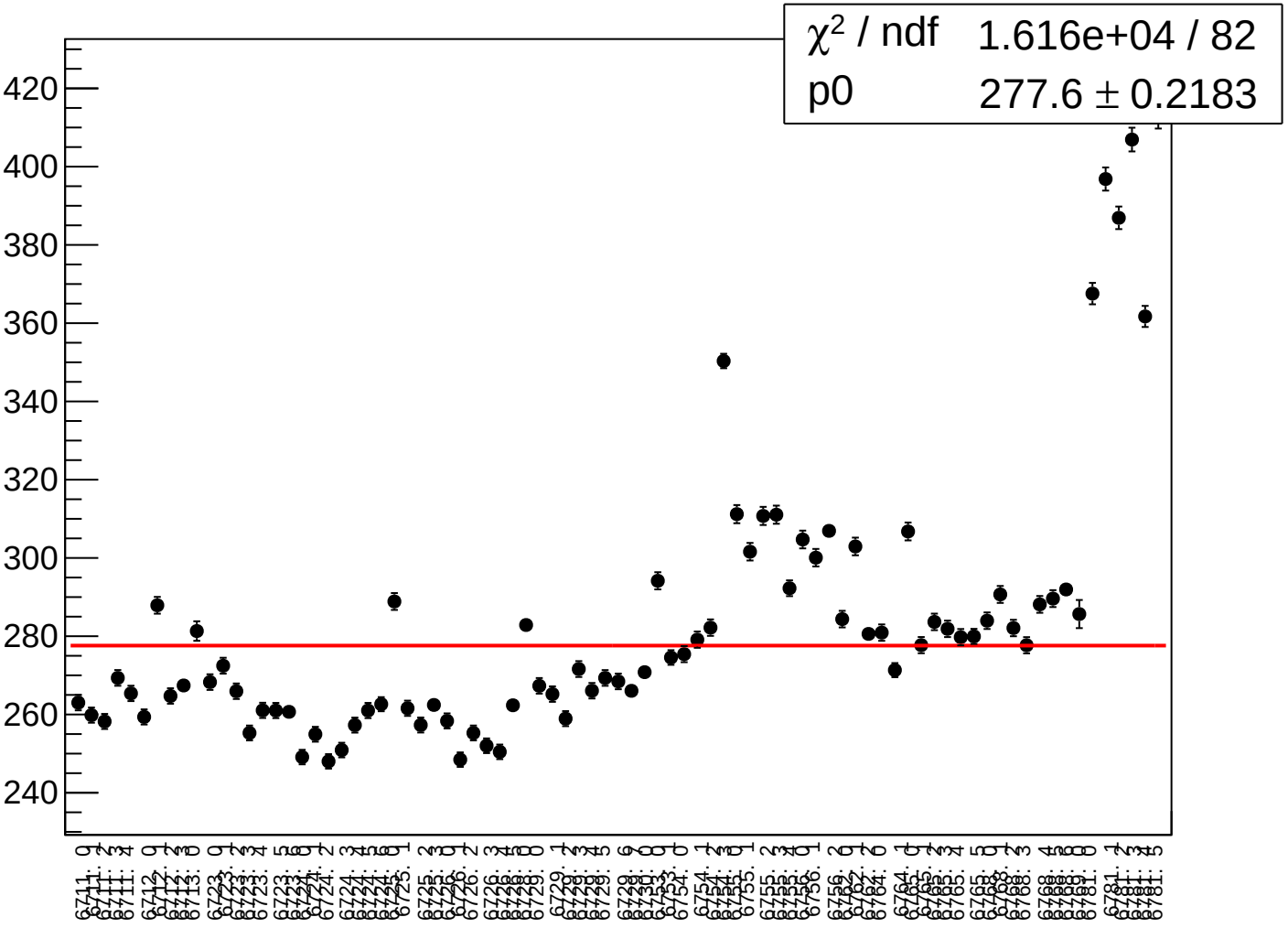

pull1D
Entries 83
Mean −0.02573
Std Dev 1.097
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

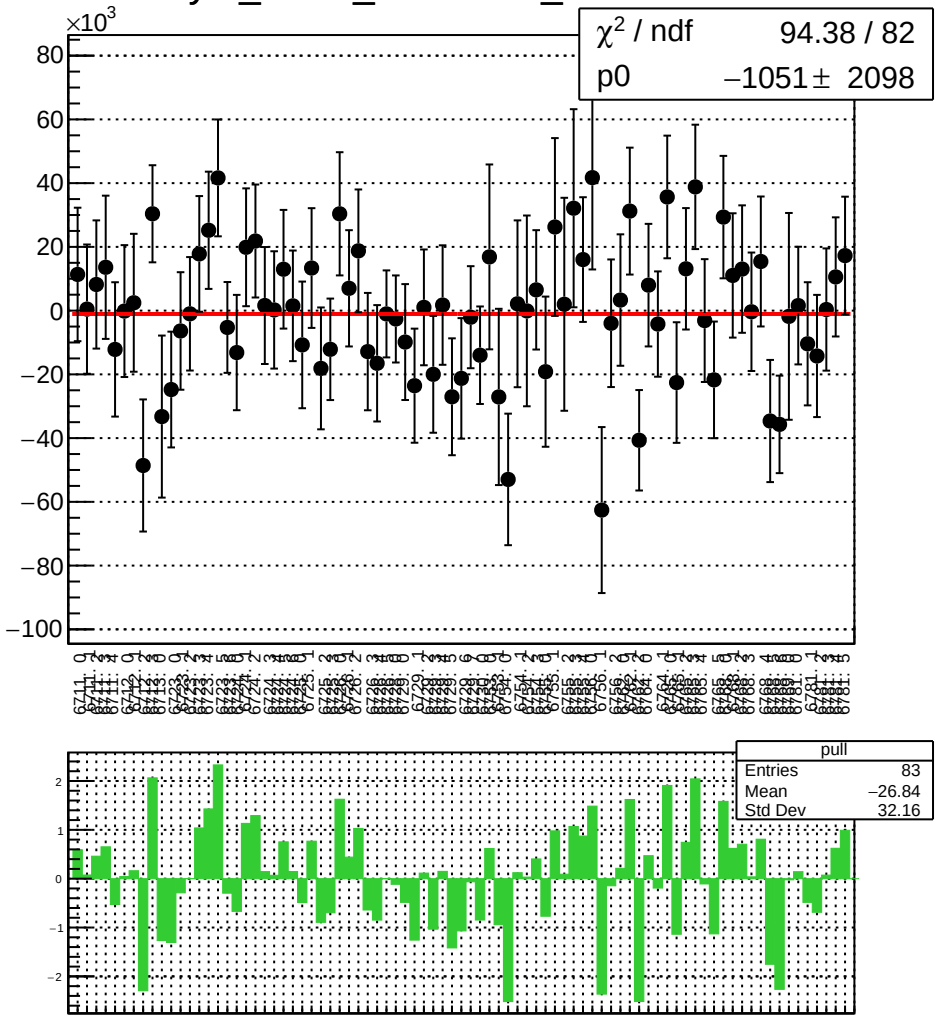

asym_sam3_rms vs run
χ² / ndf 3.167e+04 / 82
p0 633.3 ± 0.5003
1200
1100
1000
900
800
700
600
500

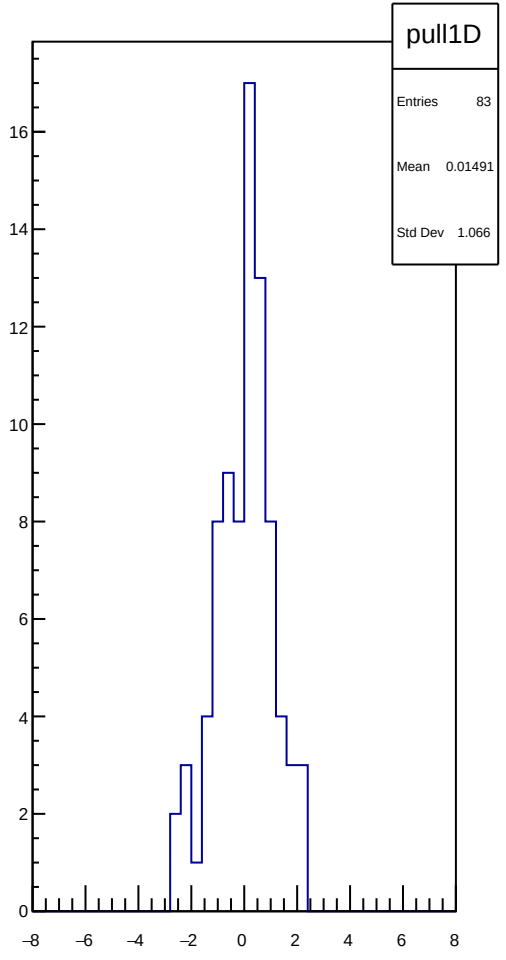

dit_asym_sam4_mean vs run
χ² / ndf 60.27 / 82
p0 −325.3 ± 308.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 107.6
Std Dev 79.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

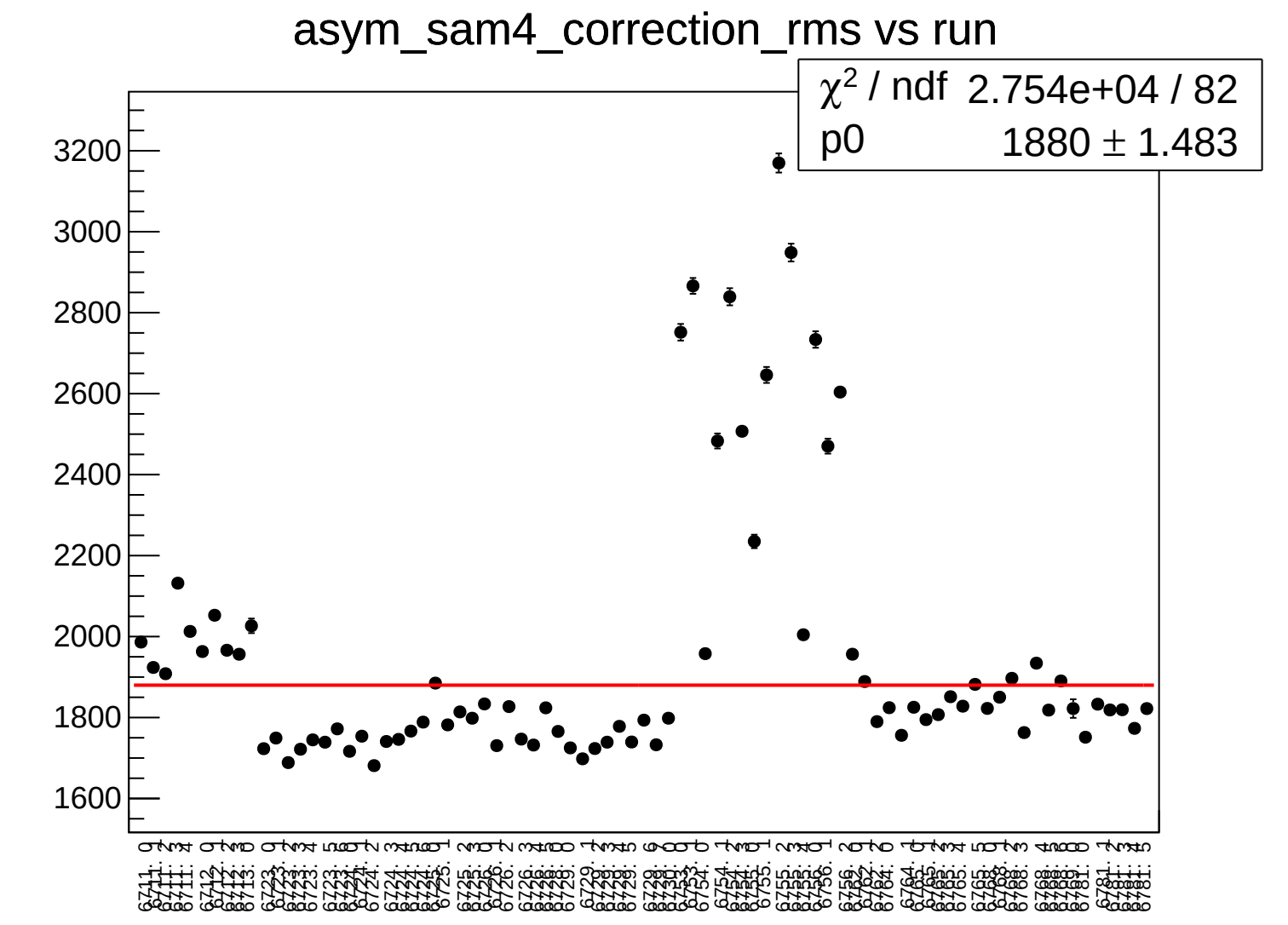

pull1D
Entries 83
Mean −0.01758
Std Dev 0.852
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

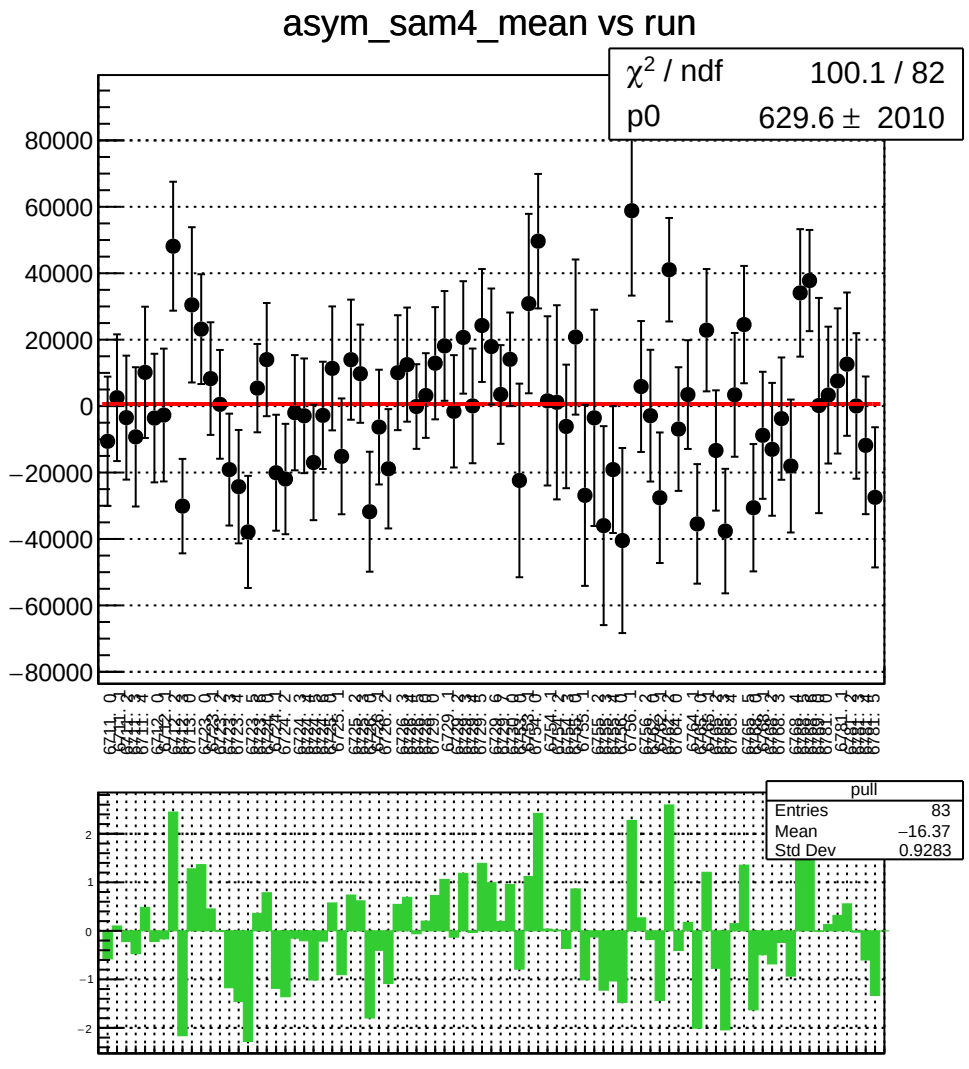
dit_asym_sam4_rms vs run

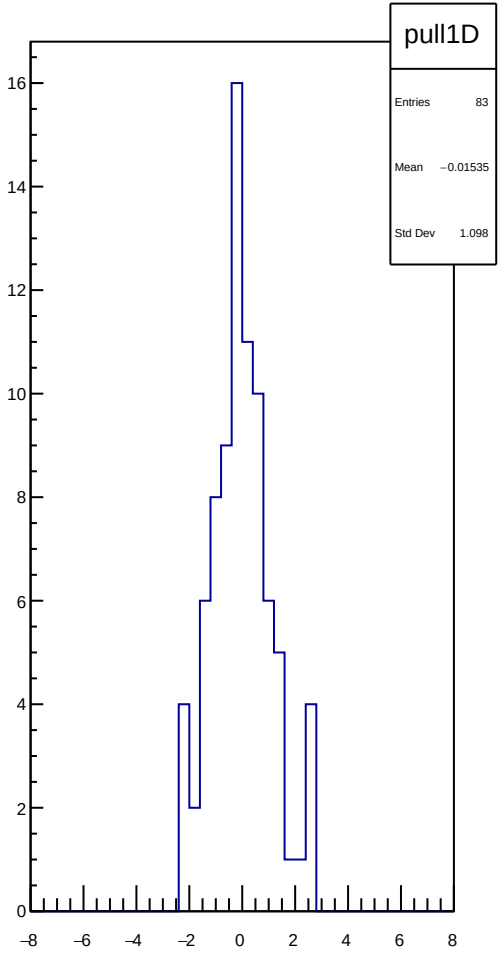


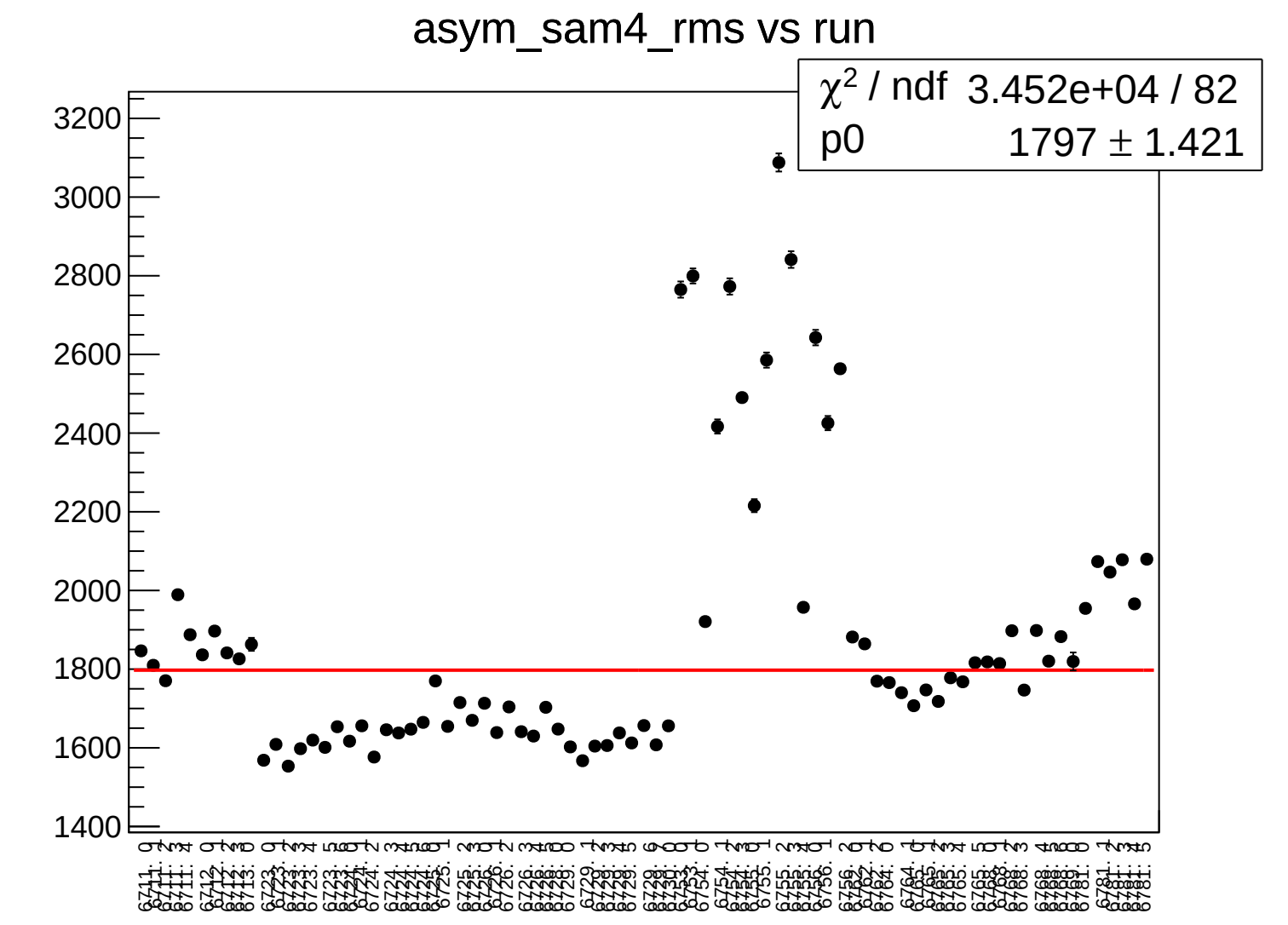

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 94.38 / 82
p0 −1051 ± 2098
pull
Entries 83
Mean −26.84
Std Dev 32.16

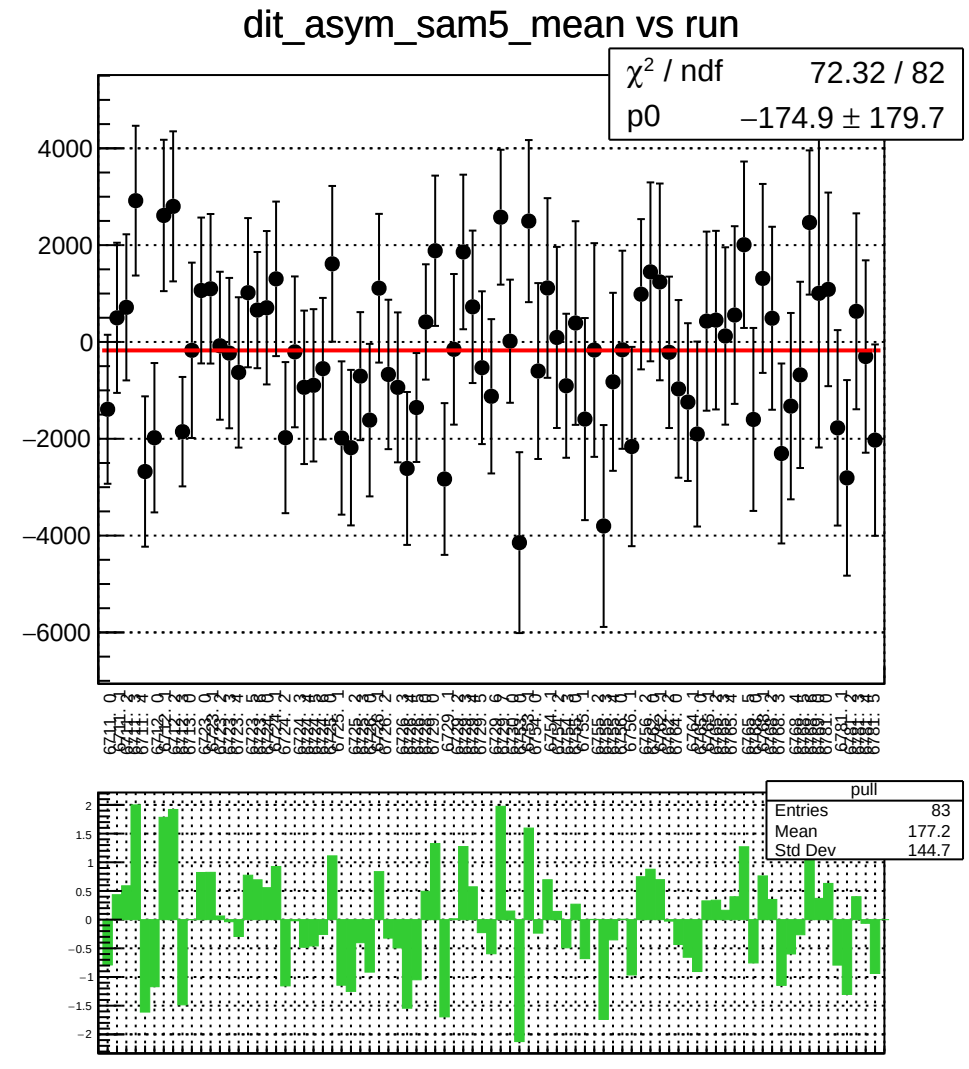

pull1D
Entries 83
Mean 0.01491
Std Dev 1.066

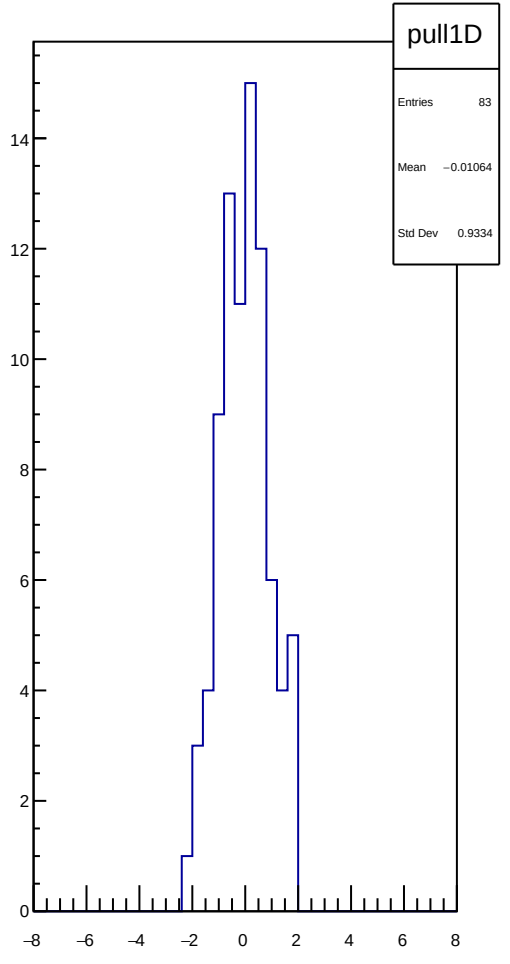

asym_sam4_correction_rms vs run
χ² / ndf 2.754e+04 / 82
p0 1880 ± 1.483
3200
3000
2800
2600
2400
2200
2000
1800
1600

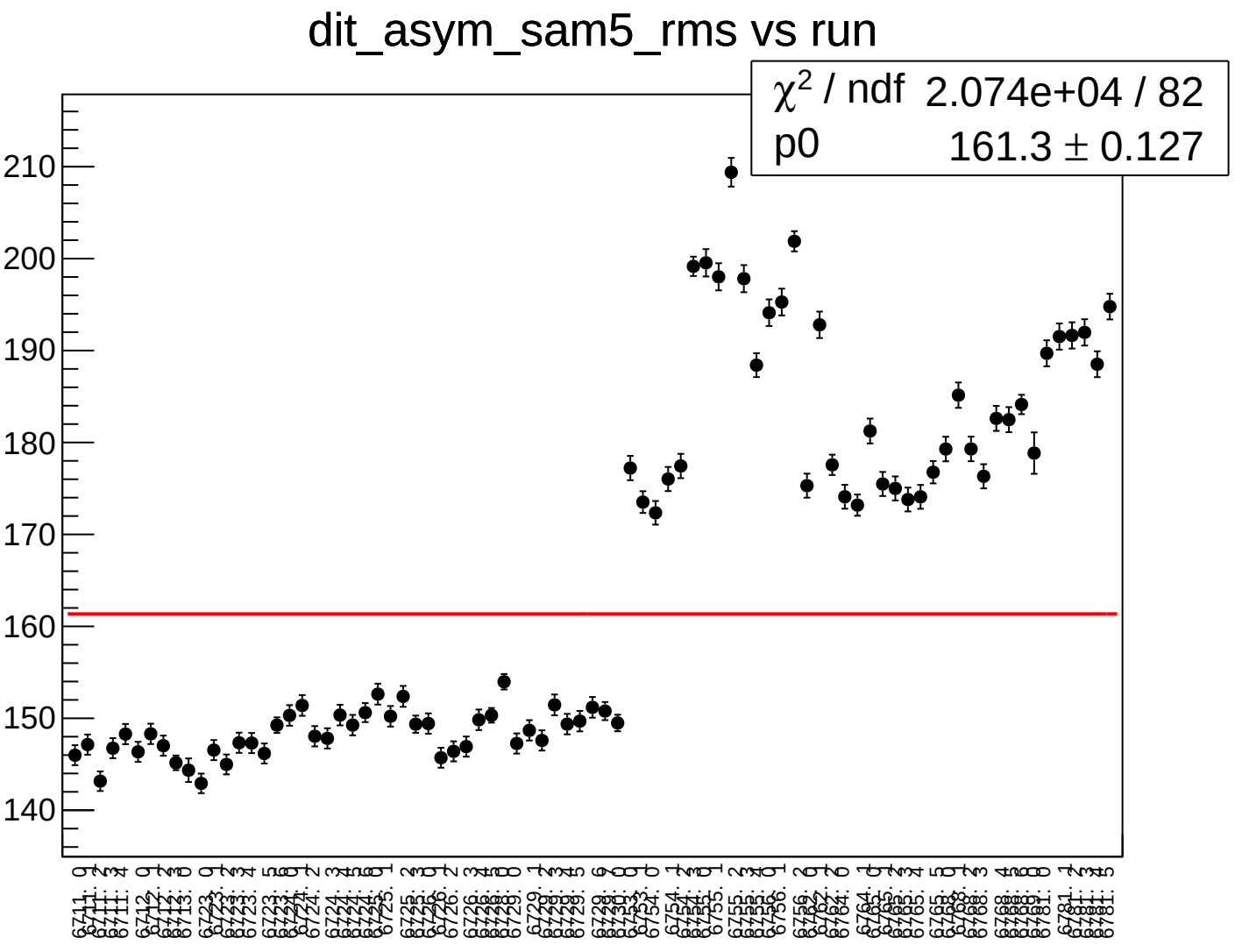

asym_sam4_mean vs run
χ² / ndf 100.1 / 82
p0 629.6 ± 2010
pull
Entries 83
Mean −16.37
Std Dev 0.9283

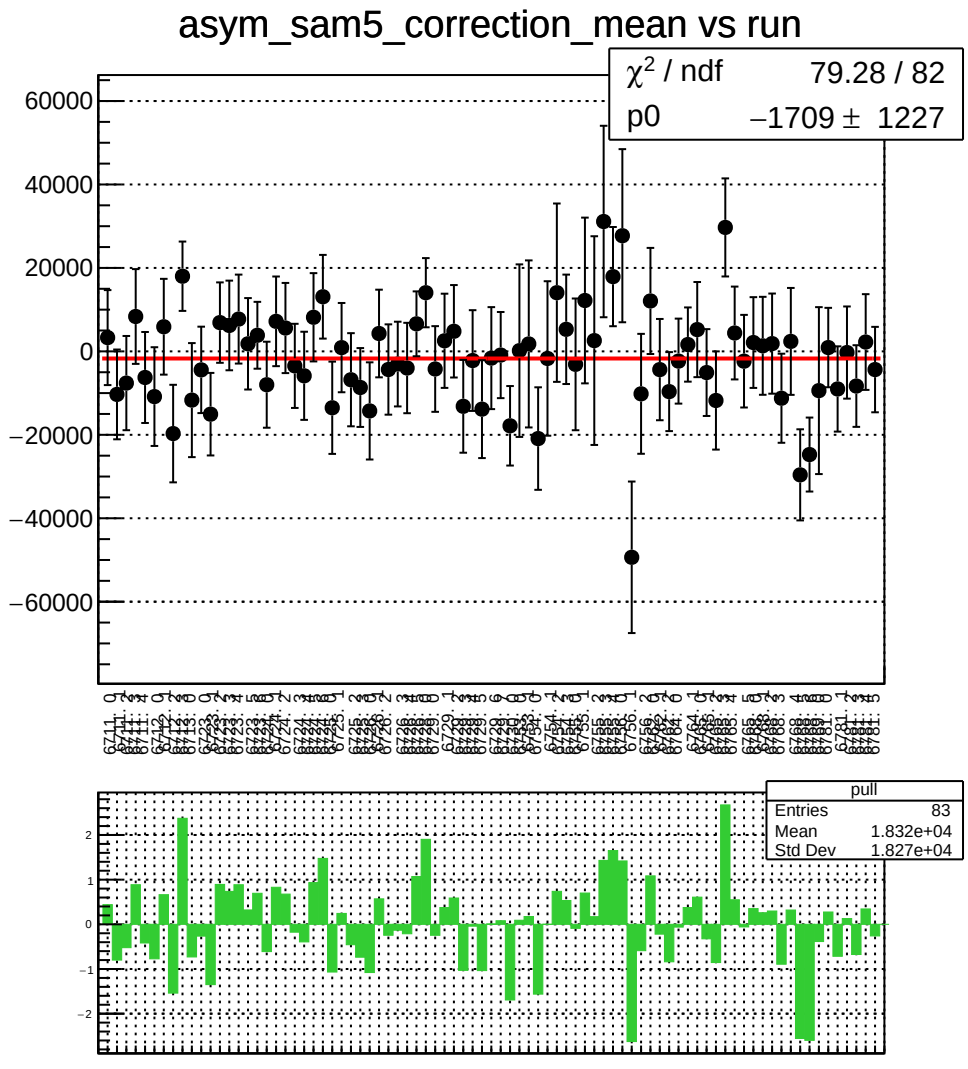

pull1D
Entries 83
Mean −0.01535
Std Dev 1.098

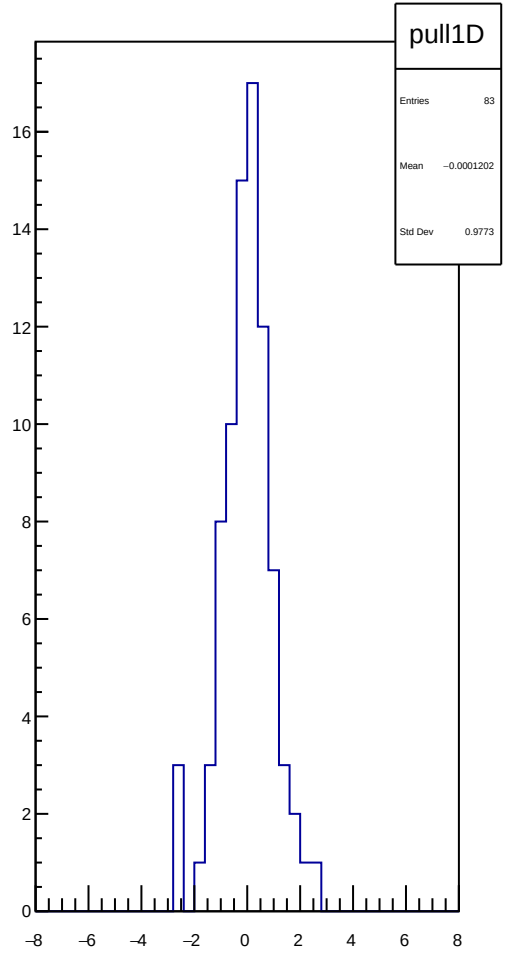

asym_sam4_rms vs run
χ² / ndf 3.452e+04 / 82
p0 1797 ± 1.421
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

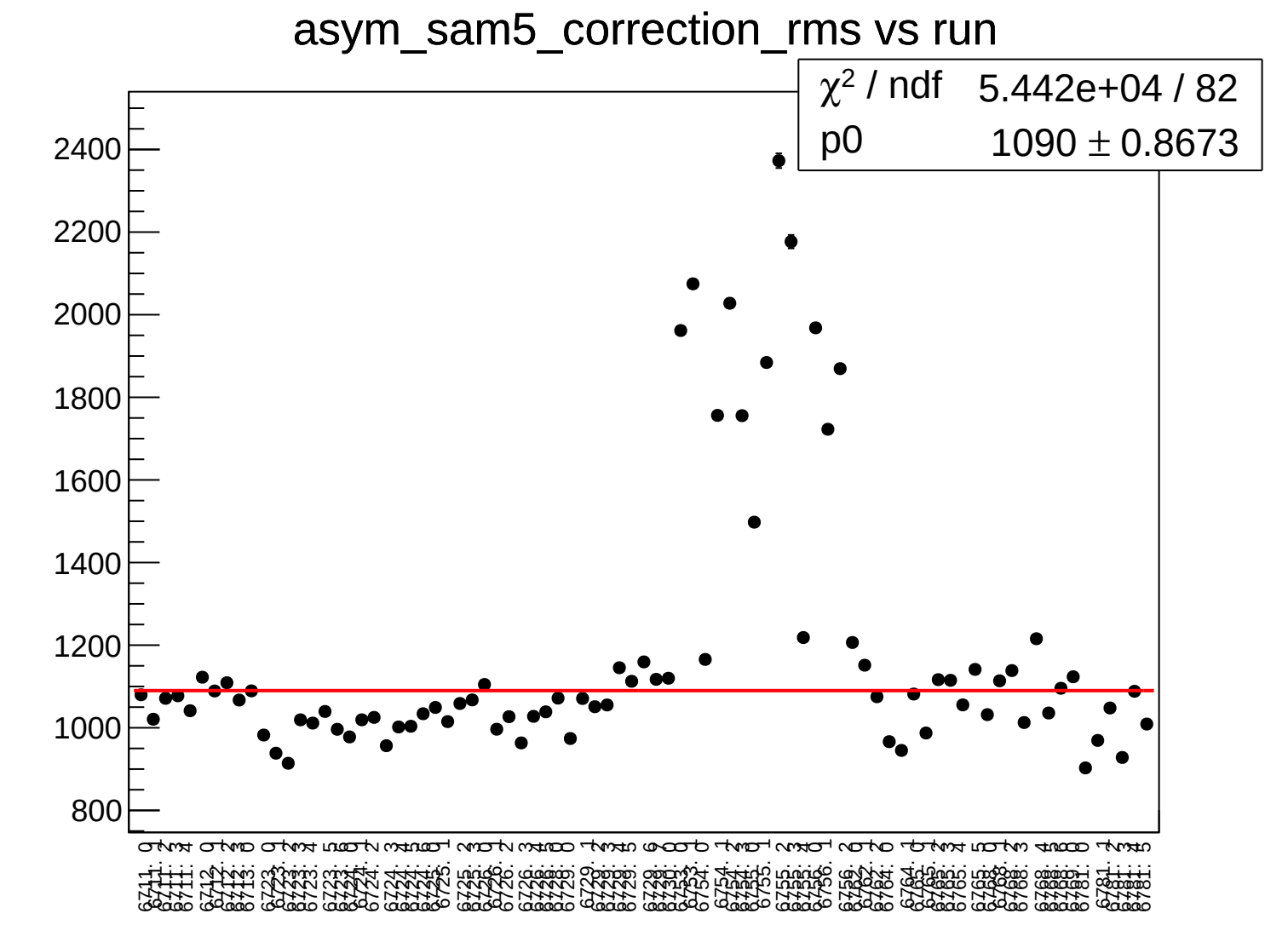

dit_asym_sam5_mean vs run
χ² / ndf 72.32 / 82
p0 −174.9 ± 179.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean 177.2
Std Dev 144.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

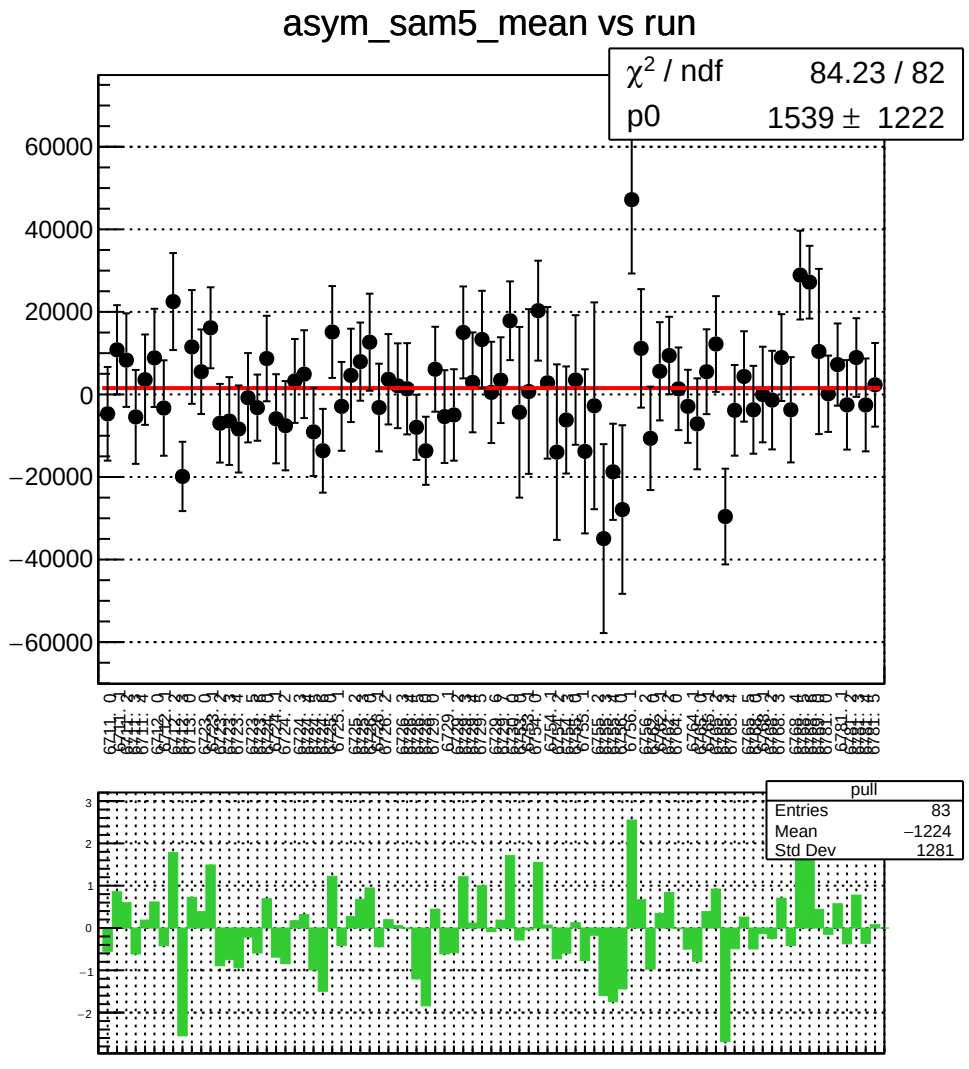

pull1D
Entries 83
Mean −0.01064
Std Dev 0.9334
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

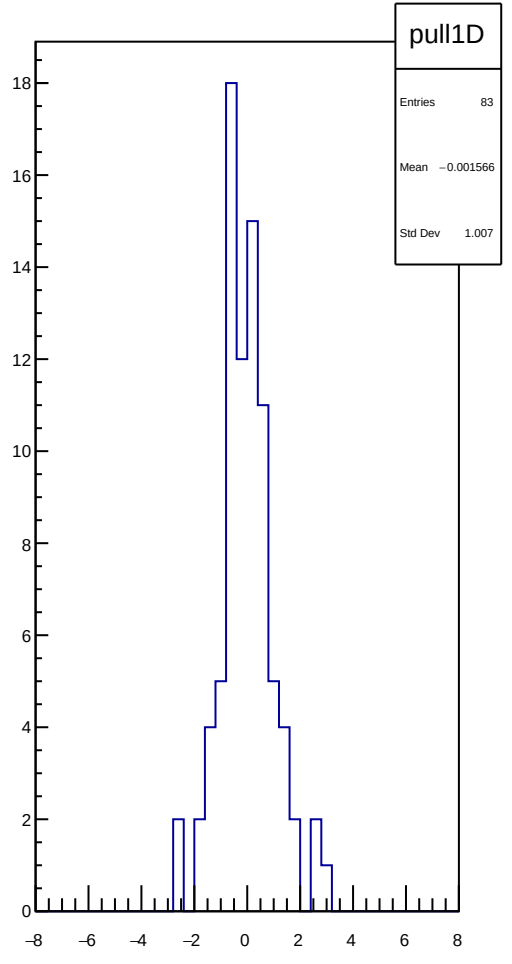

dit_asym_sam5_rms vs run
χ² / ndf 2.074e+04 / 82
p0 161.3 ± 0.127
210
200
190
180
170
160
150
140

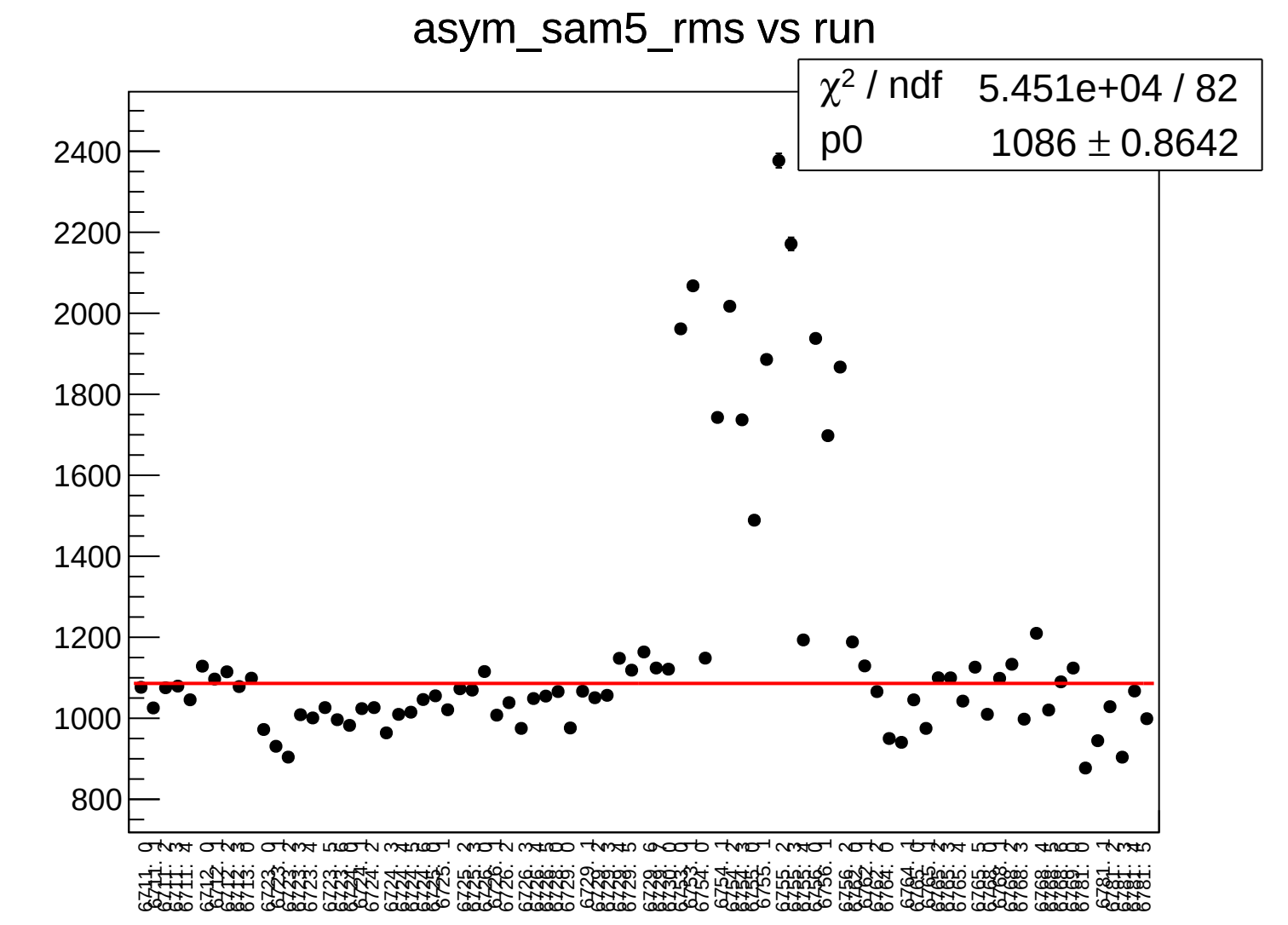

asym_sam5_correction_mean vs run
χ² / ndf 79.28 / 82
p0 −1709 ± 1227
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 1.832e+04
Std Dev 1.827e+04
2
1
0
−1
−2

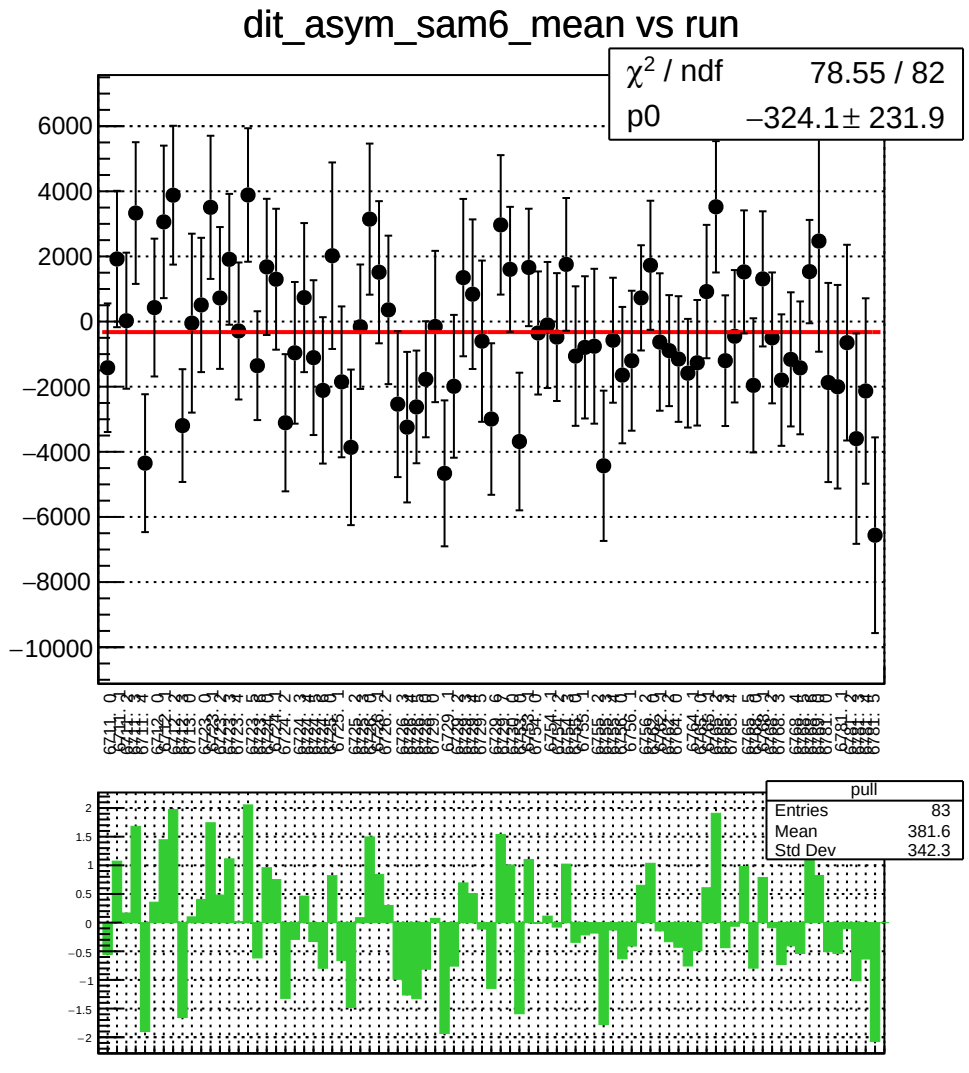

pull1D
Entries 83
Mean −0.0001202
Std Dev 0.9773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

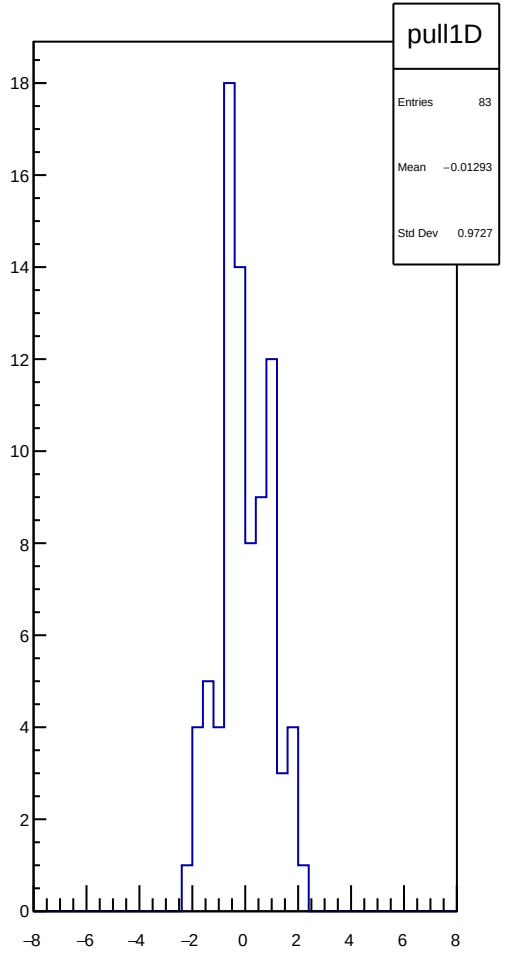

asym_sam5_correction_rms vs run
χ^2 / ndf 5.442e+04 / 82
p0 1090 ± 0.8673
2400
2200
2000
1800
1600
1400
1200
1000
800

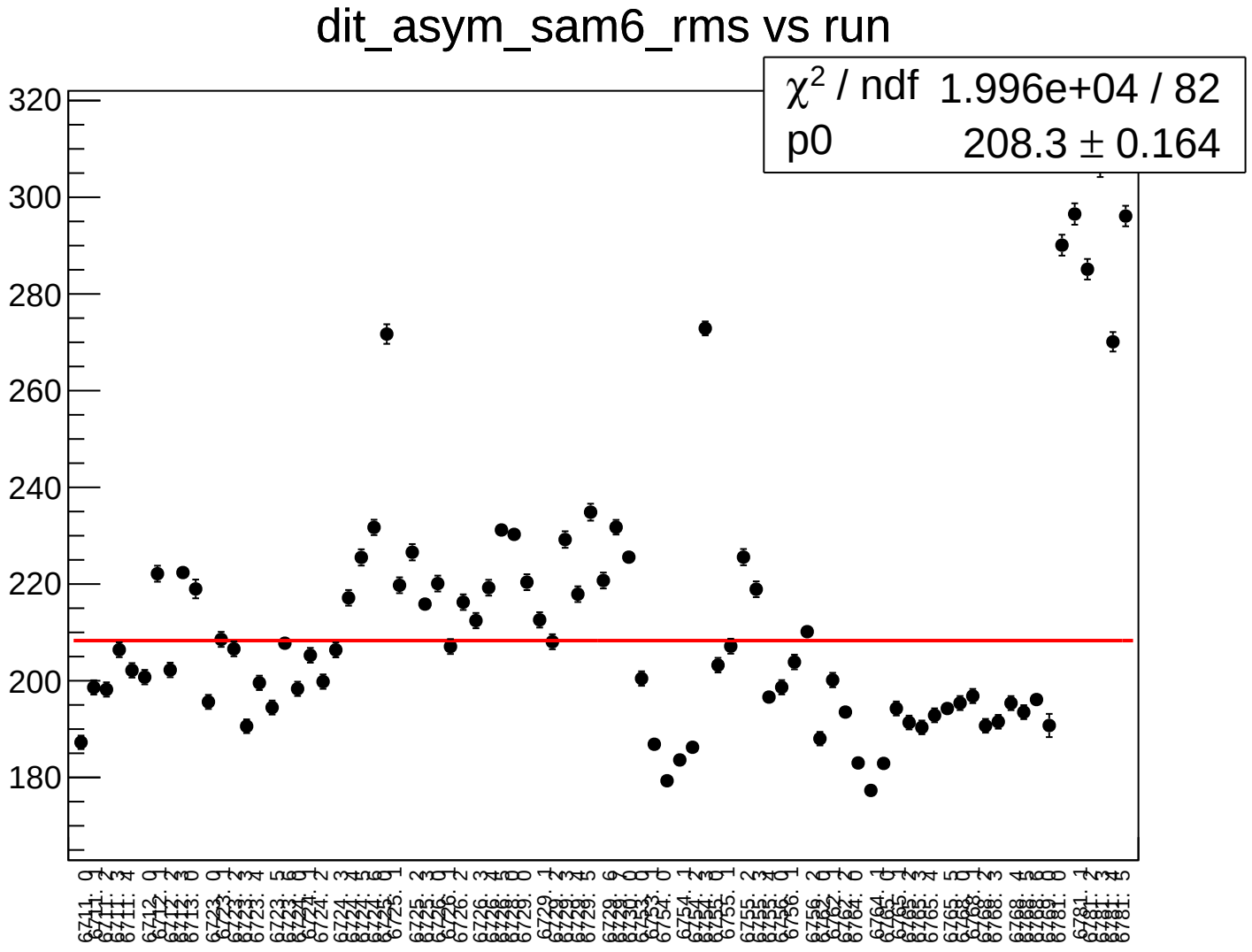

asym_sam5_mean vs run
χ² / ndf 84.23 / 82
p0 1539 ± 1222
pull
Entries 83
Mean −1224
Std Dev 1281

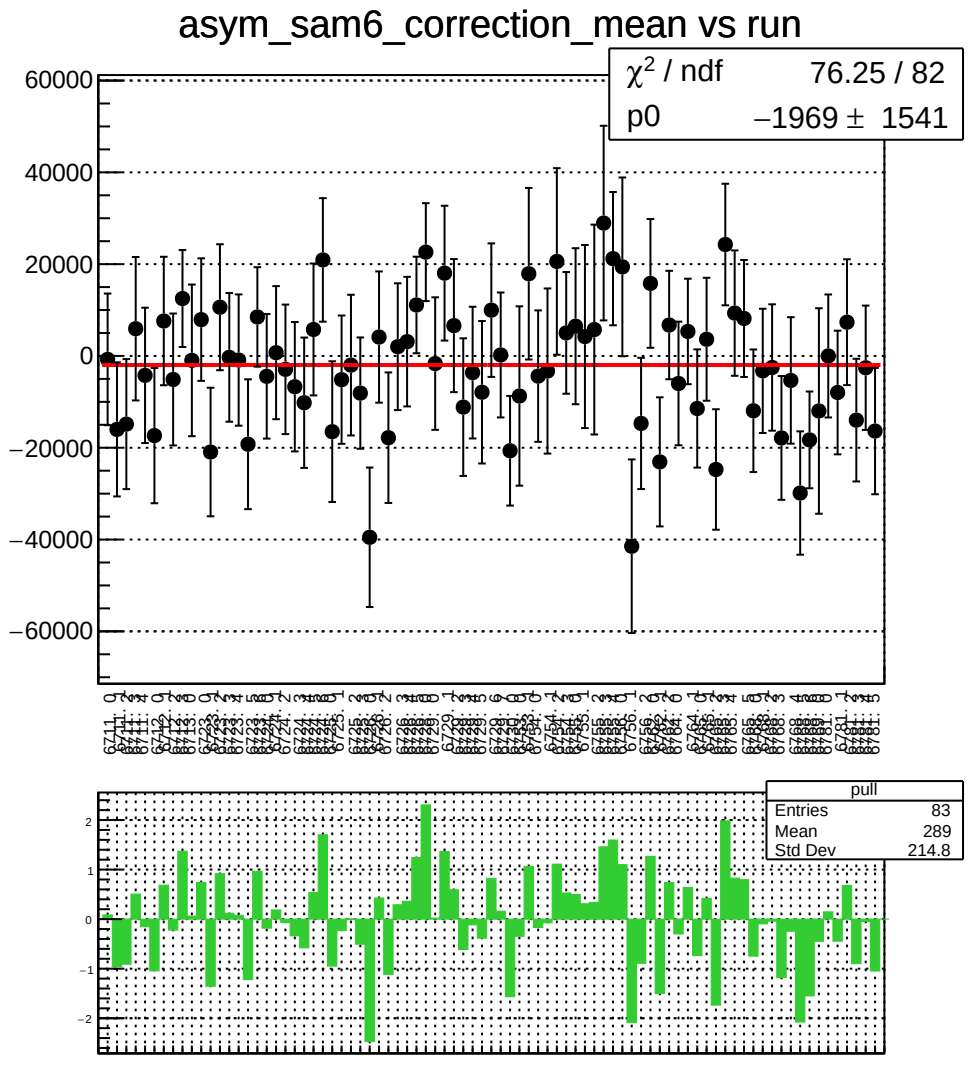

pull1D
Entries 83
Mean −0.001566
Std Dev 1.007

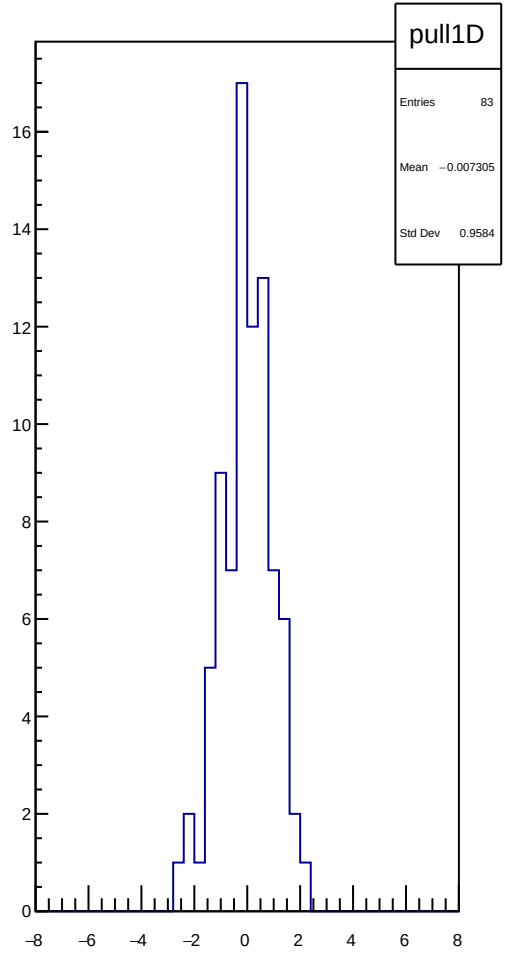

asym_sam5_rms vs run
χ² / ndf 5.451e+04 / 82
p0 1086 ± 0.8642
2400
2200
2000
1800
1600
1400
1200
1000
800

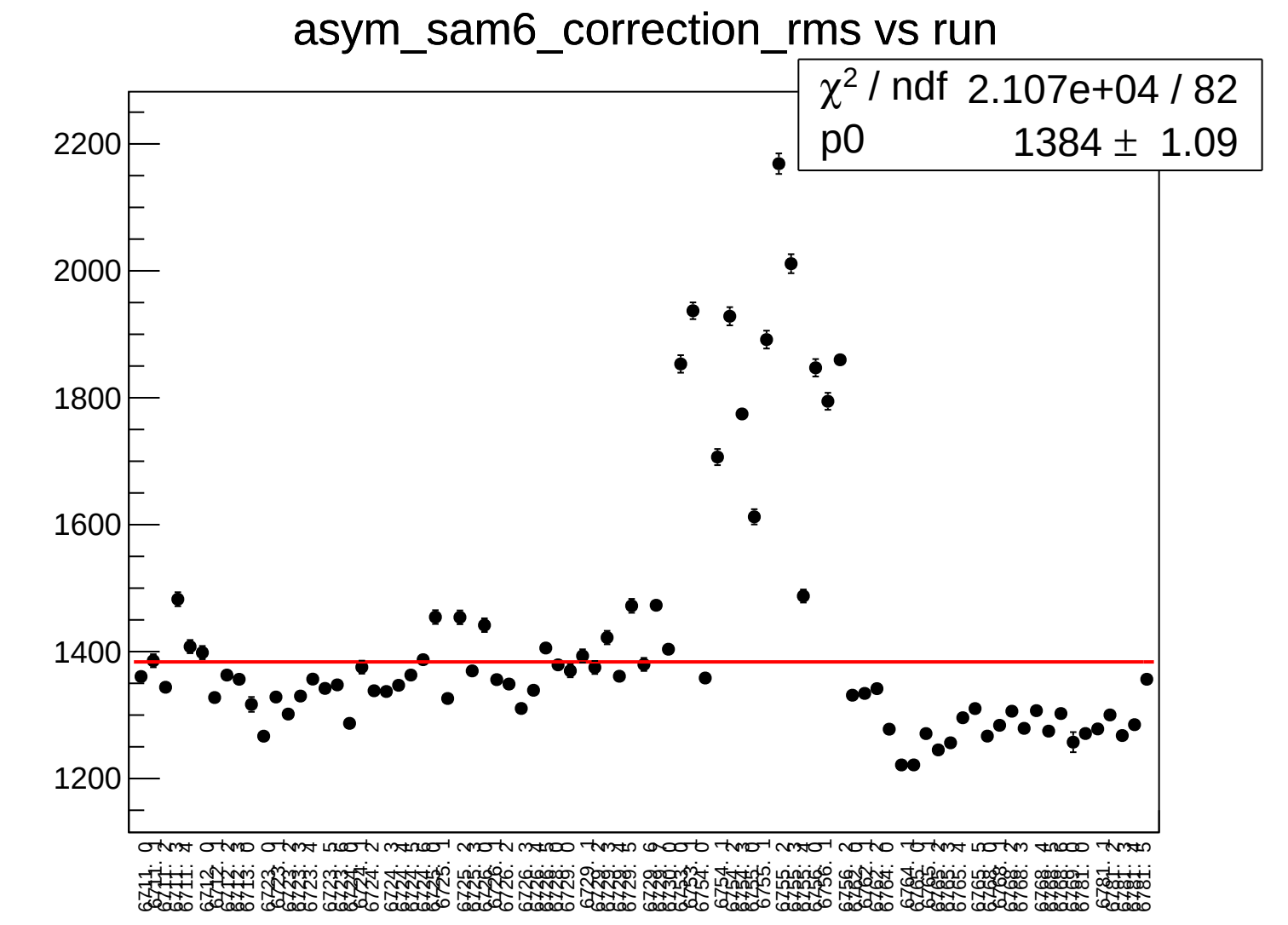

dit_asym_sam6_mean vs run
χ² / ndf 78.55 / 82
p0 −324.1± 231.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 83
Mean 381.6
Std Dev 342.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

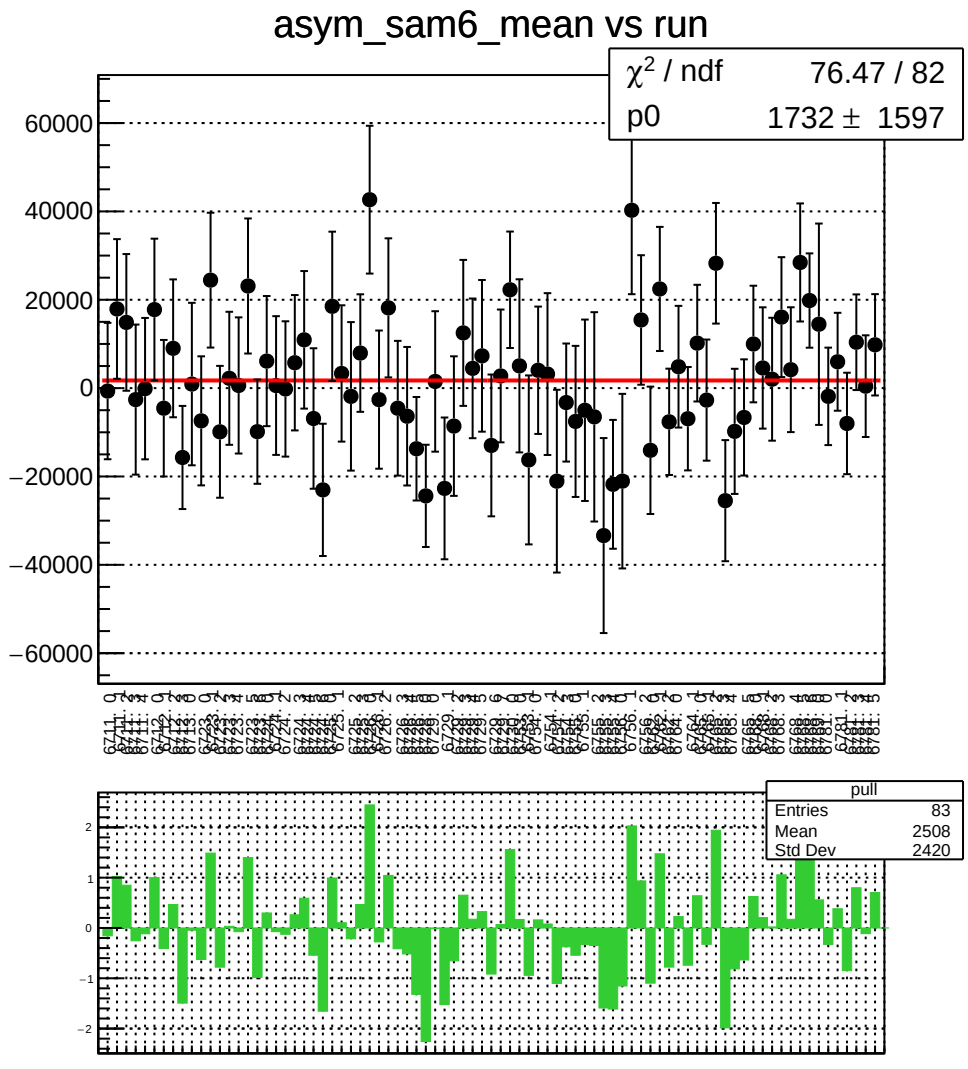

pull1D
Entries 83
Mean −0.01293
Std Dev 0.9727
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

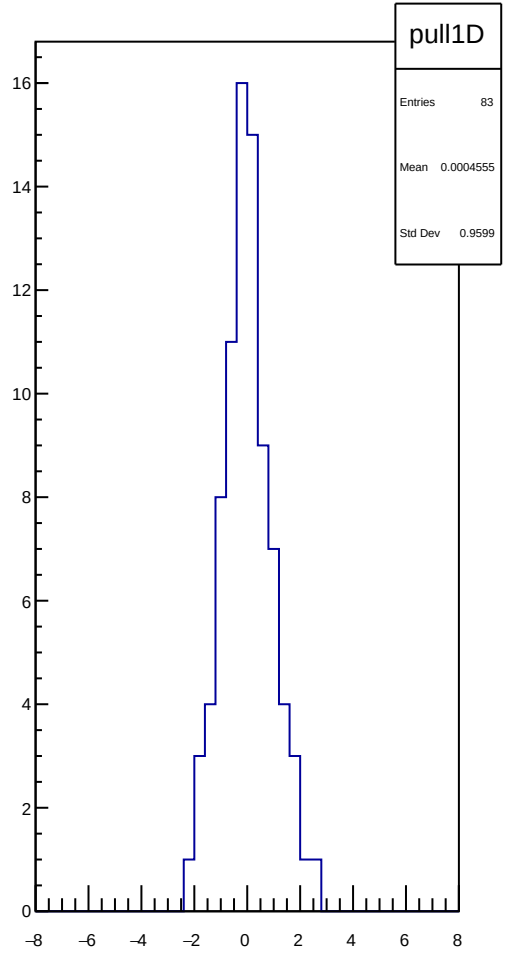

dit_asym_sam6_rms vs run
χ^2 / ndf 1.996e+04 / 82
p0 208.3 ± 0.164
320
300
280
260
240
220
200
180

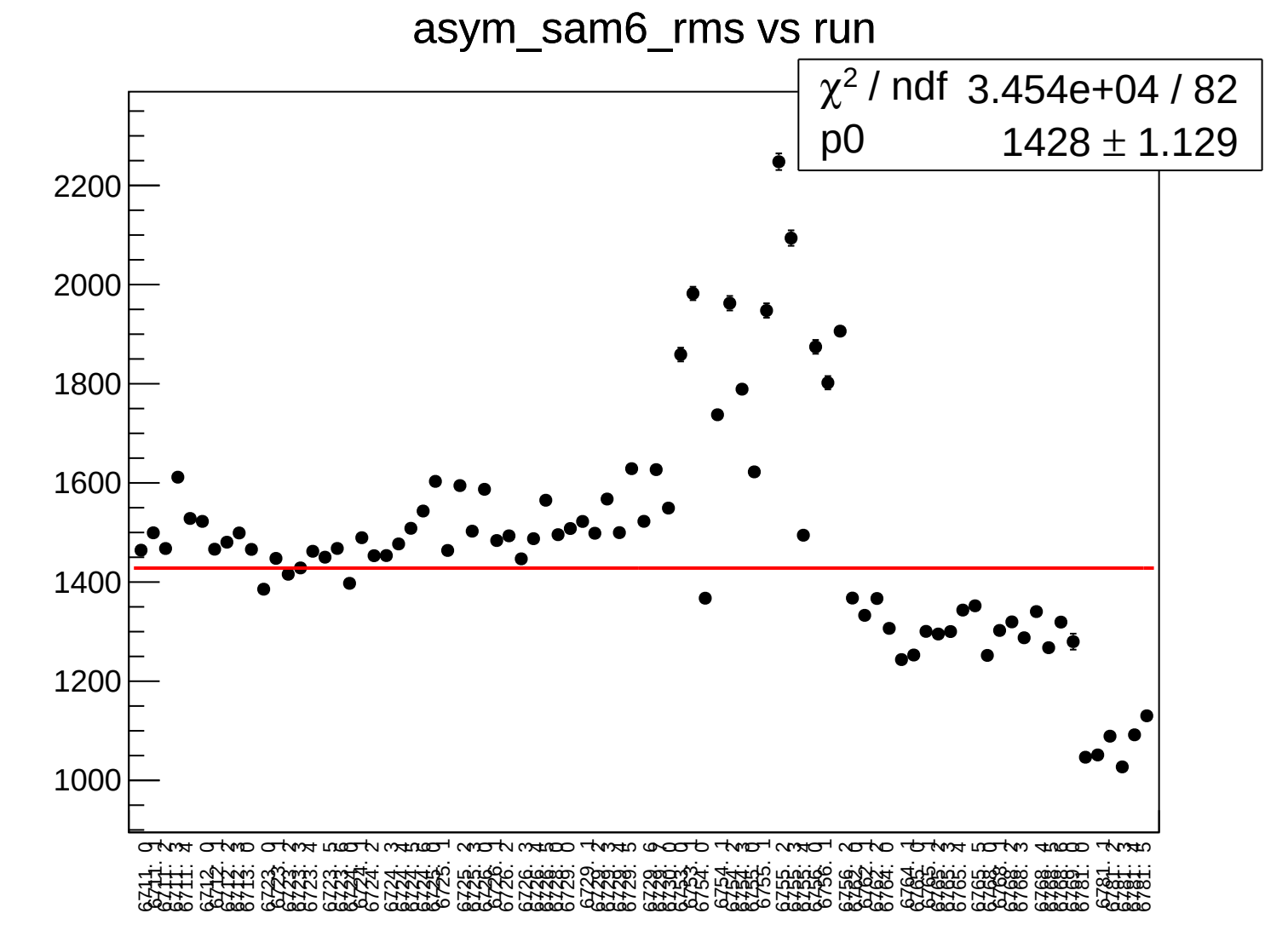

asym_sam6_correction_mean vs run
χ² / ndf 76.25 / 82
p0 −1969 ± 1541
pull
Entries 83
Mean 289
Std Dev 214.8

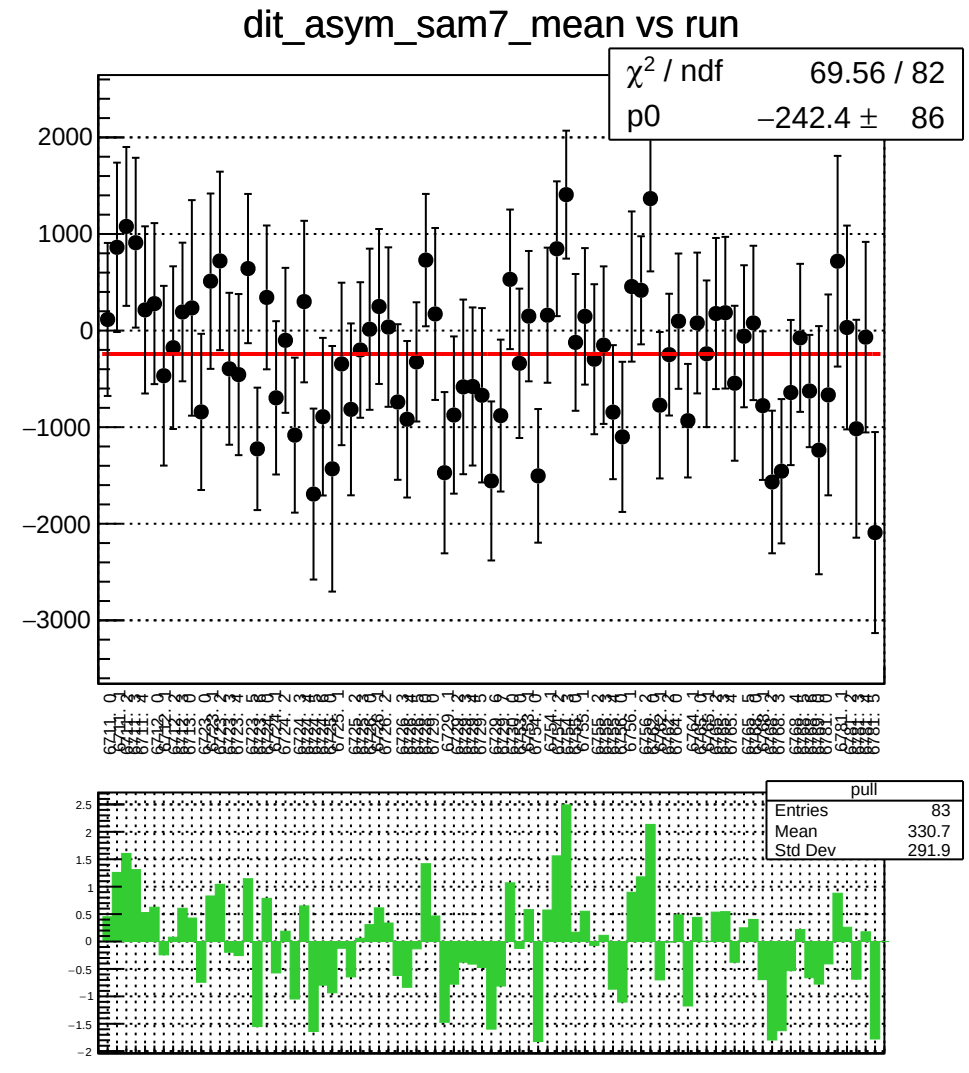

pull1D
Entries 83
Mean −0.007305
Std Dev 0.9584

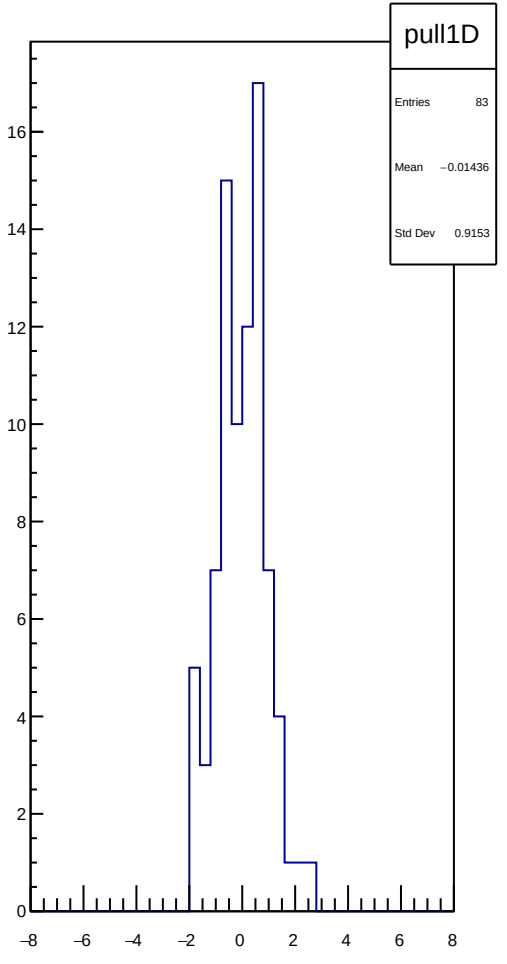

asym_sam6_correction_rms vs run
χ² / ndf 2.107e+04 / 82
p0 1384 ± 1.09
2200
2000
1800
1600
1400
1200

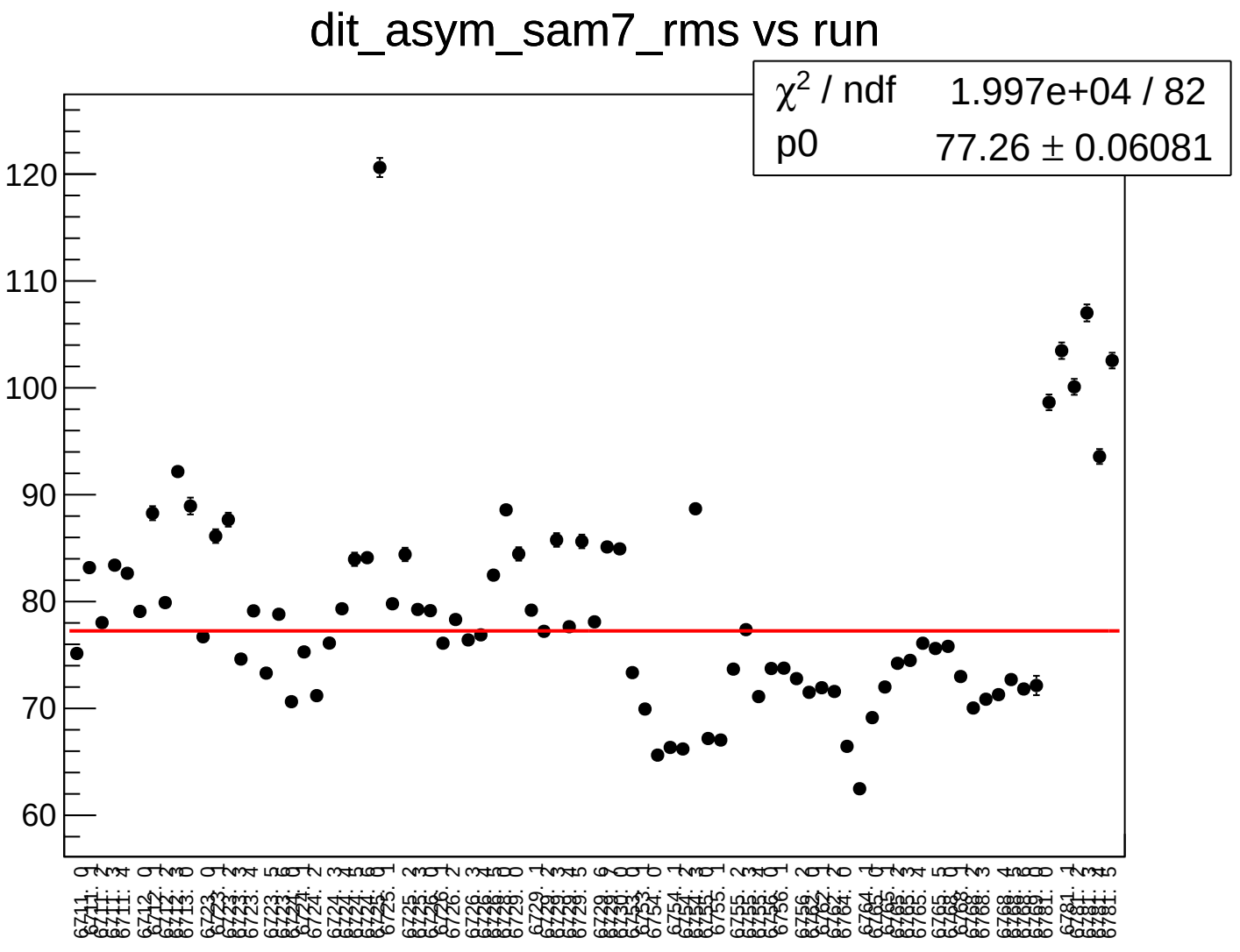

asym_sam6_mean vs run
χ² / ndf 76.47 / 82
p0 1732 ± 1597
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 83
Mean 2508
Std Dev 2420
2
1
0
−1
−2

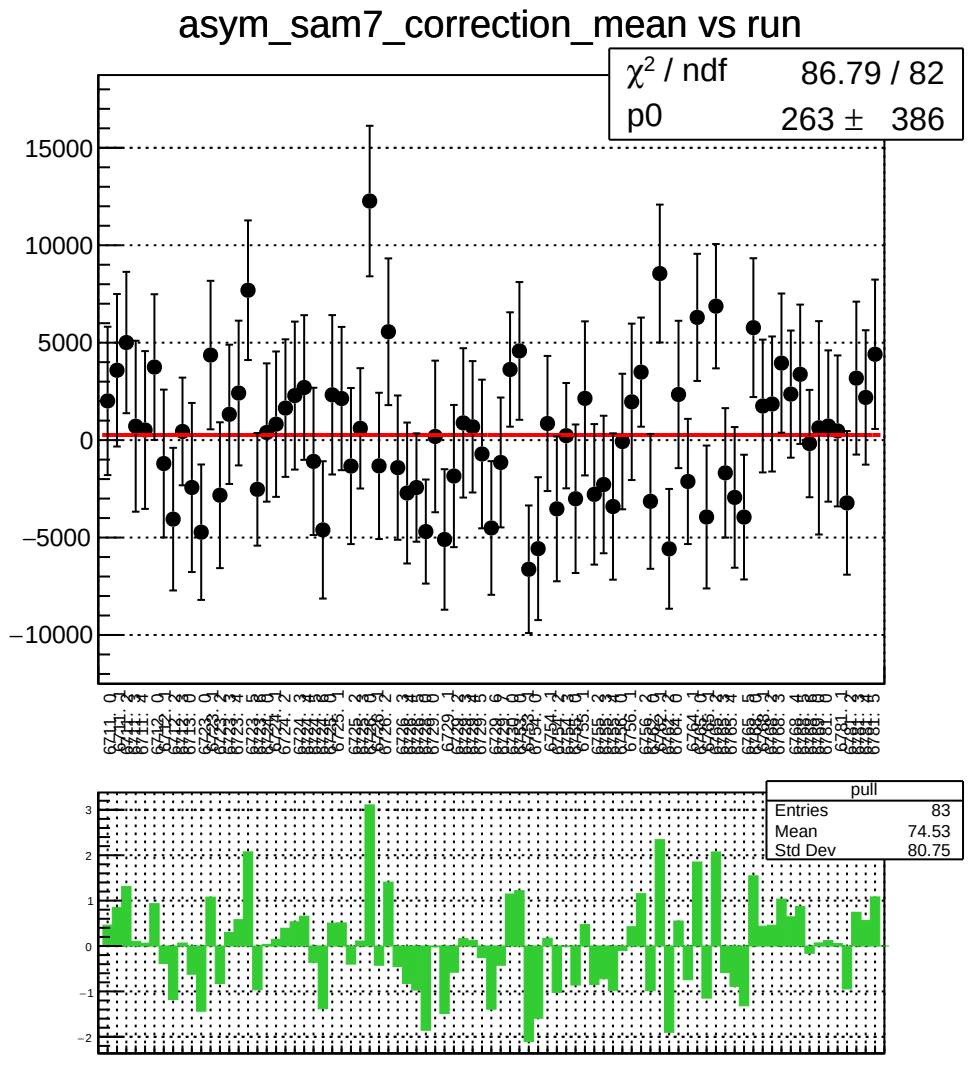

pull1D
Entries 83
Mean 0.0004555
Std Dev 0.9599
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

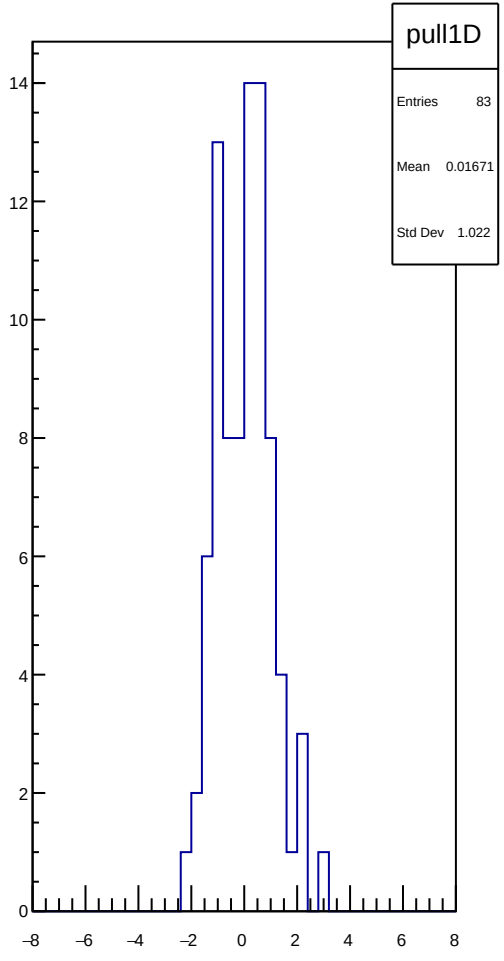

asym_sam6_rms vs run
χ² / ndf 3.454e+04 / 82
p0 1428 ± 1.129
2200
2000
1800
1600
1400
1200
1000


dit_asym_sam7_mean vs run
χ² / ndf 69.56 / 82
p0 −242.4 ± 86
pull
Entries 83
Mean 330.7
Std Dev 291.9

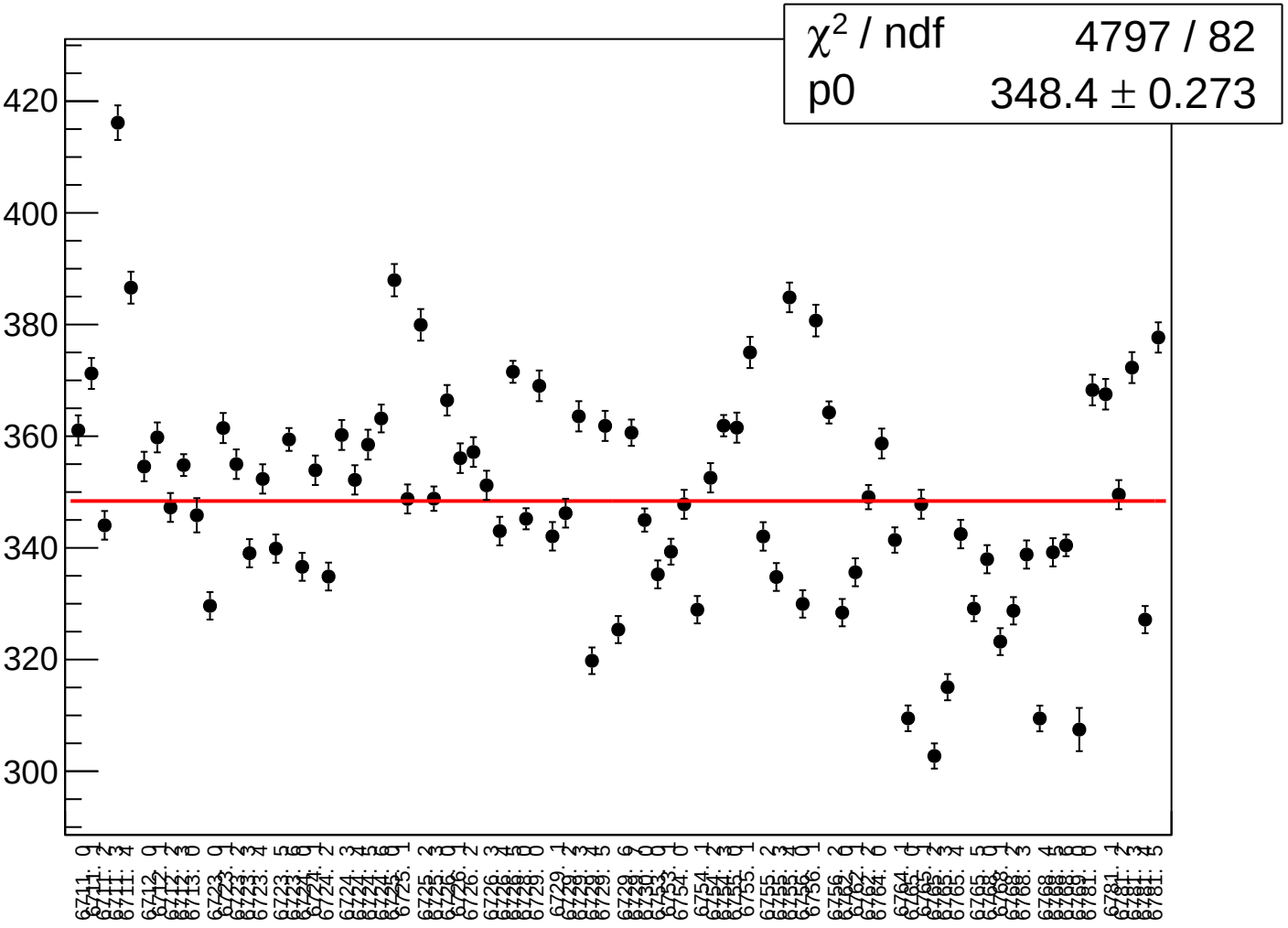

pull1D
Entries 83
Mean −0.01436
Std Dev 0.9153

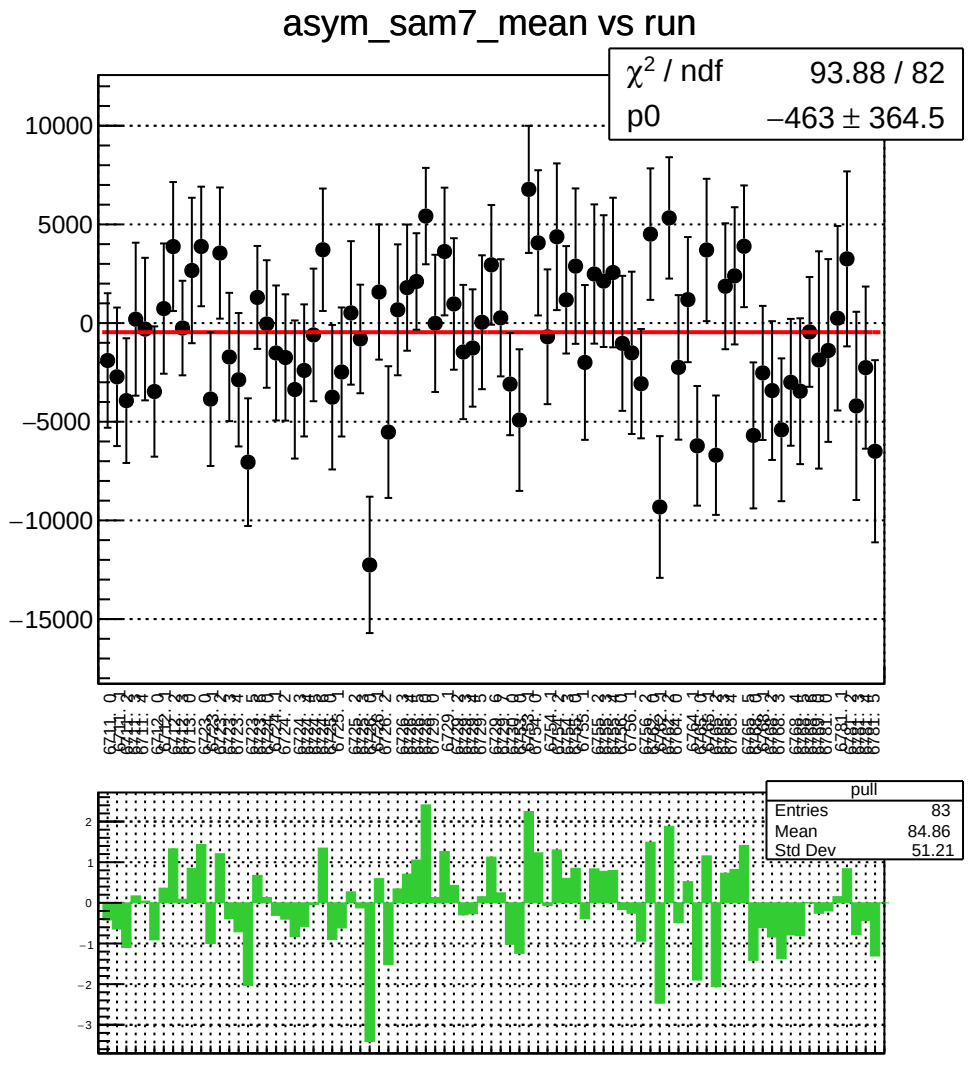

dit_asym_sam7_rms vs run
χ^2 / ndf 1.997e+04 / 82
p0 77.26 ± 0.06081
120
110
100
90
80
70
60

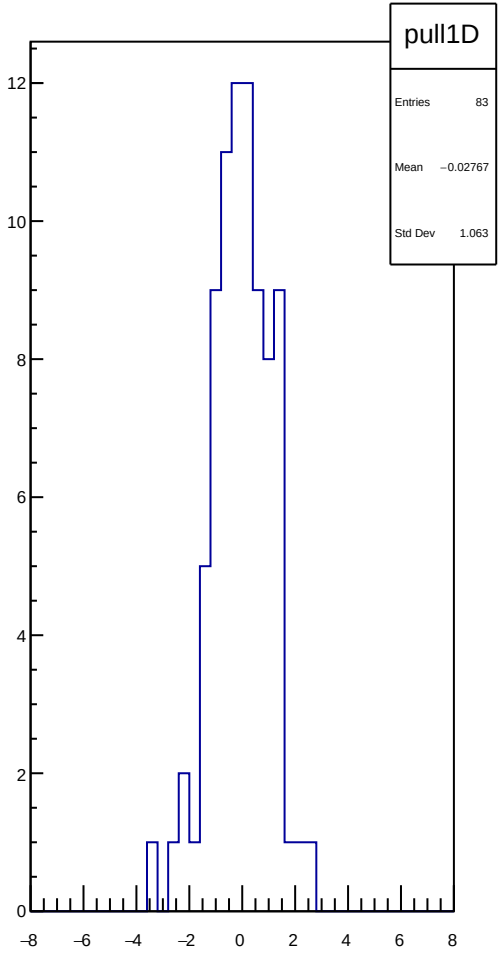

asym_sam7_correction_mean vs run
χ² / ndf 86.79 / 82
p0 263 ± 386
15000
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 74.53
Std Dev 80.75
3
2
1
0
−1
−2

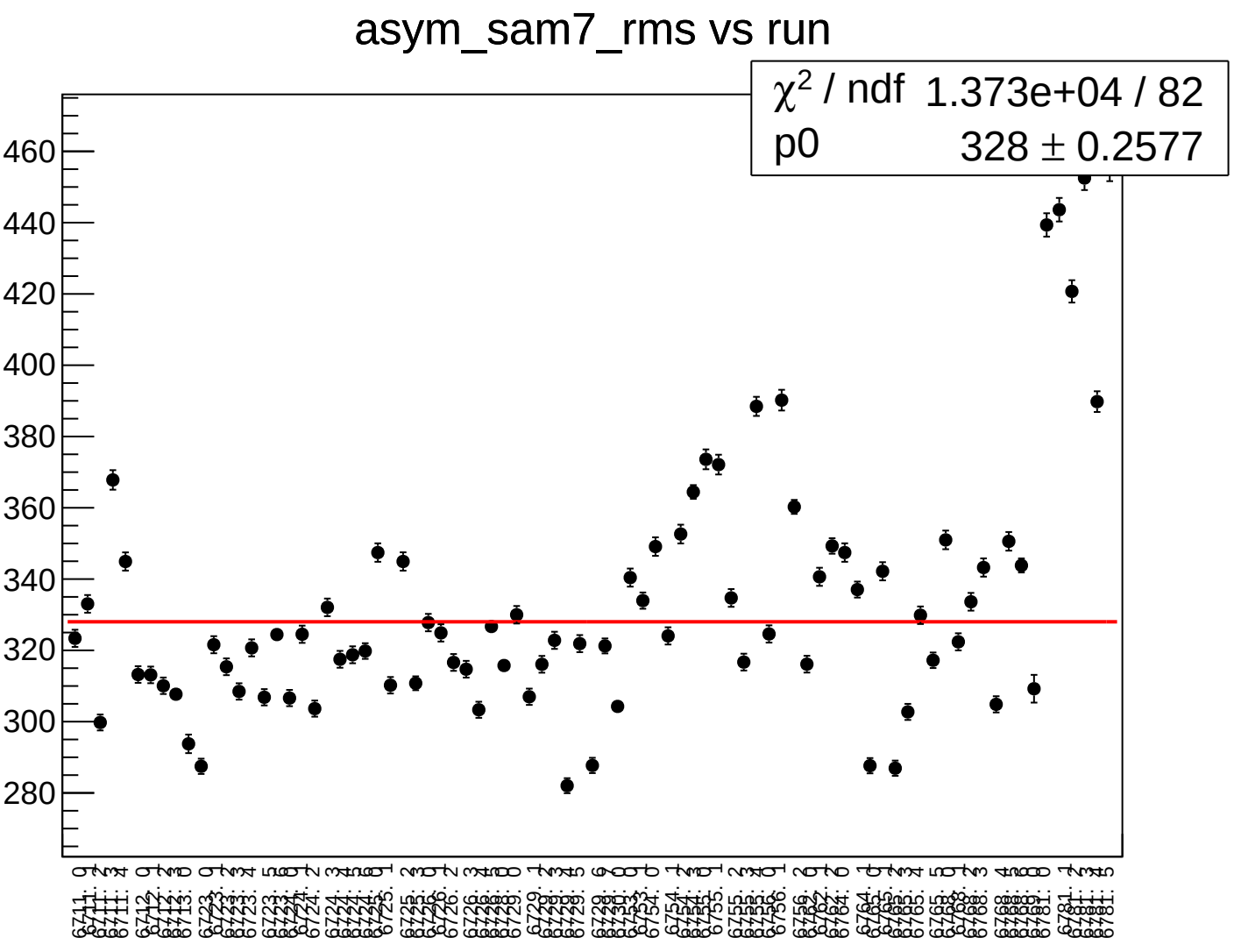

pull1D
Entries 83
Mean 0.01671
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

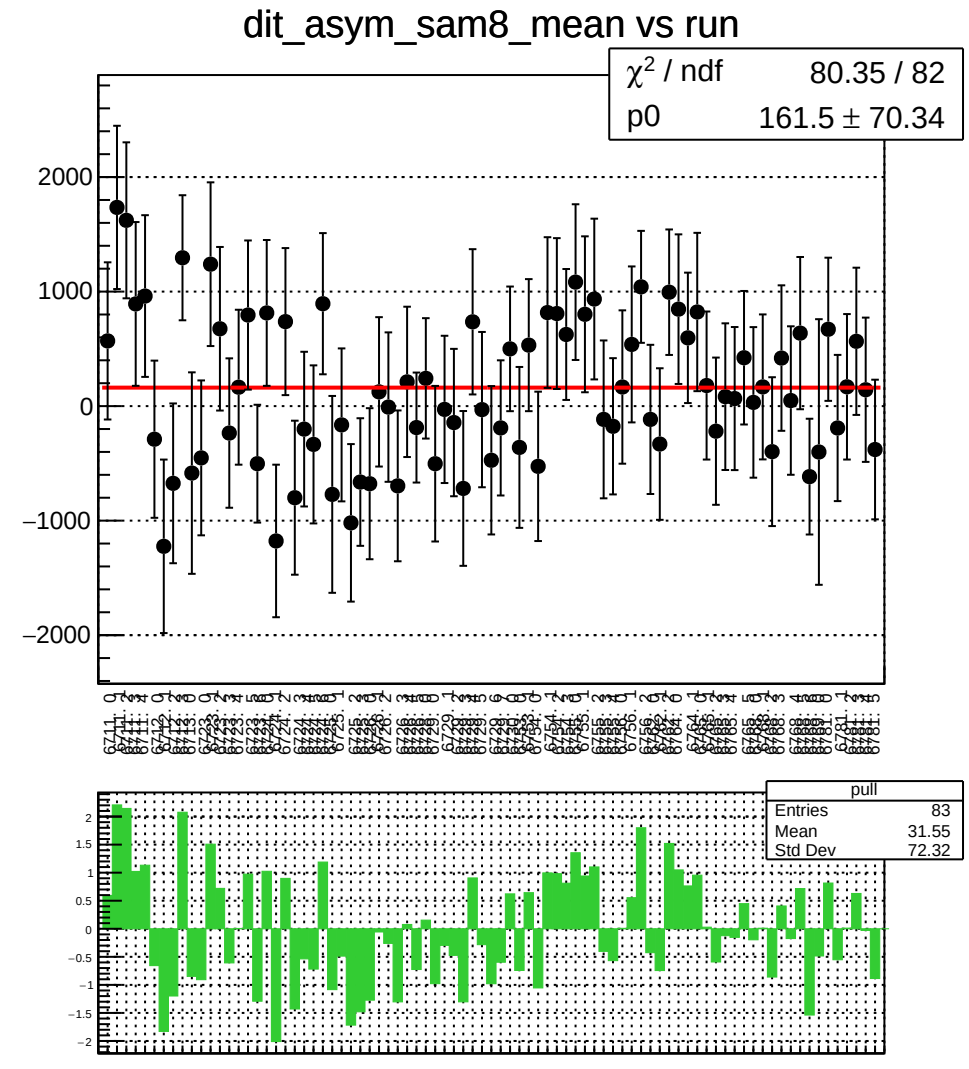
asym_sam7_correction_rms vs run

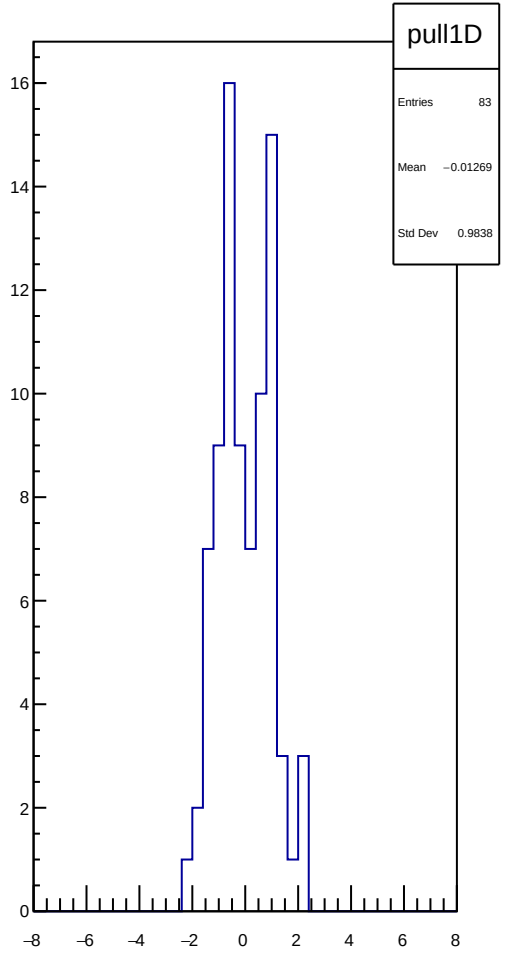


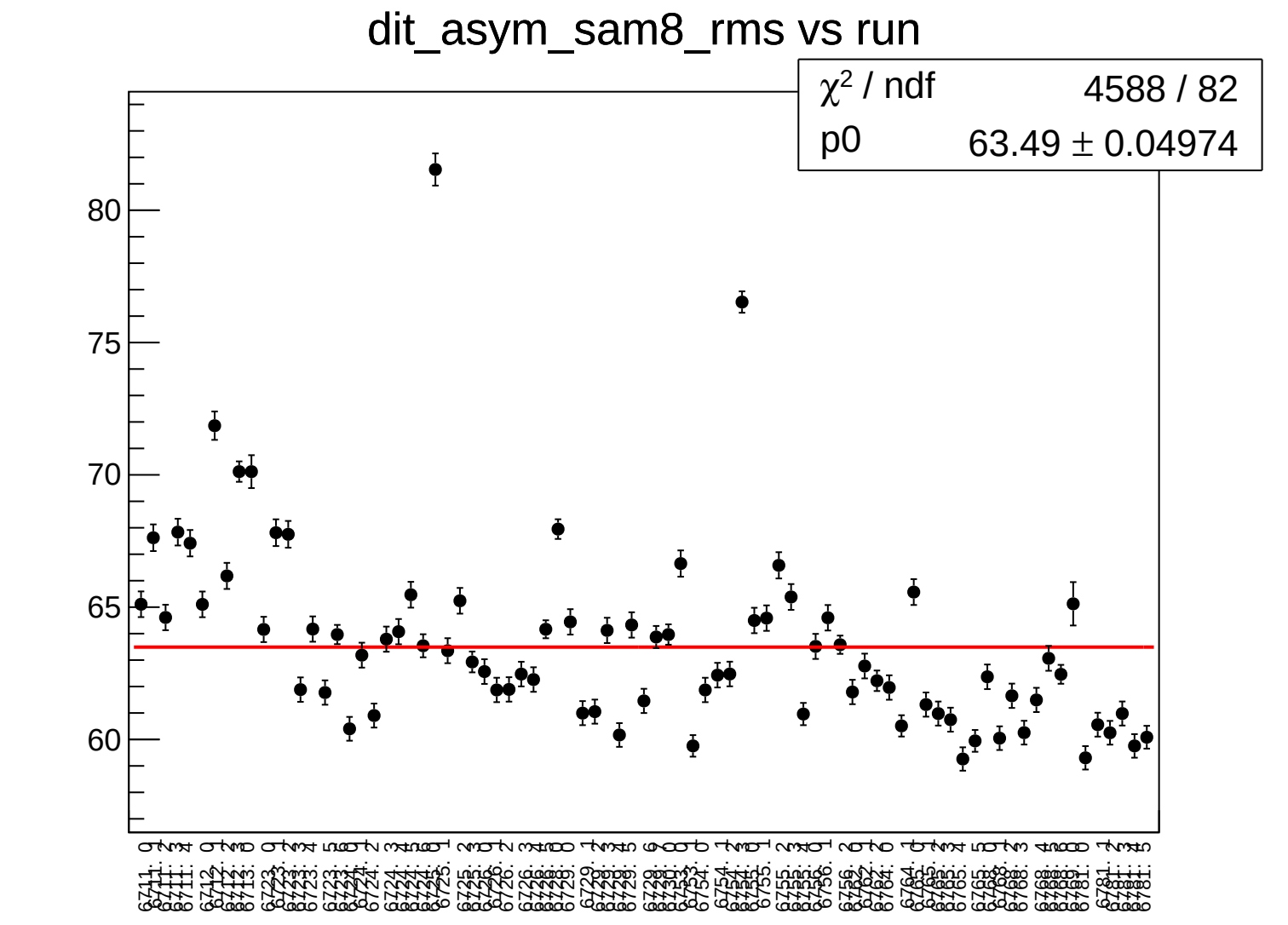

asym_sam7_mean vs run
χ² / ndf 93.88 / 82
p0 −463 ± 364.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 84.86
Std Dev 51.21
2
1
0
−1
−2
−3

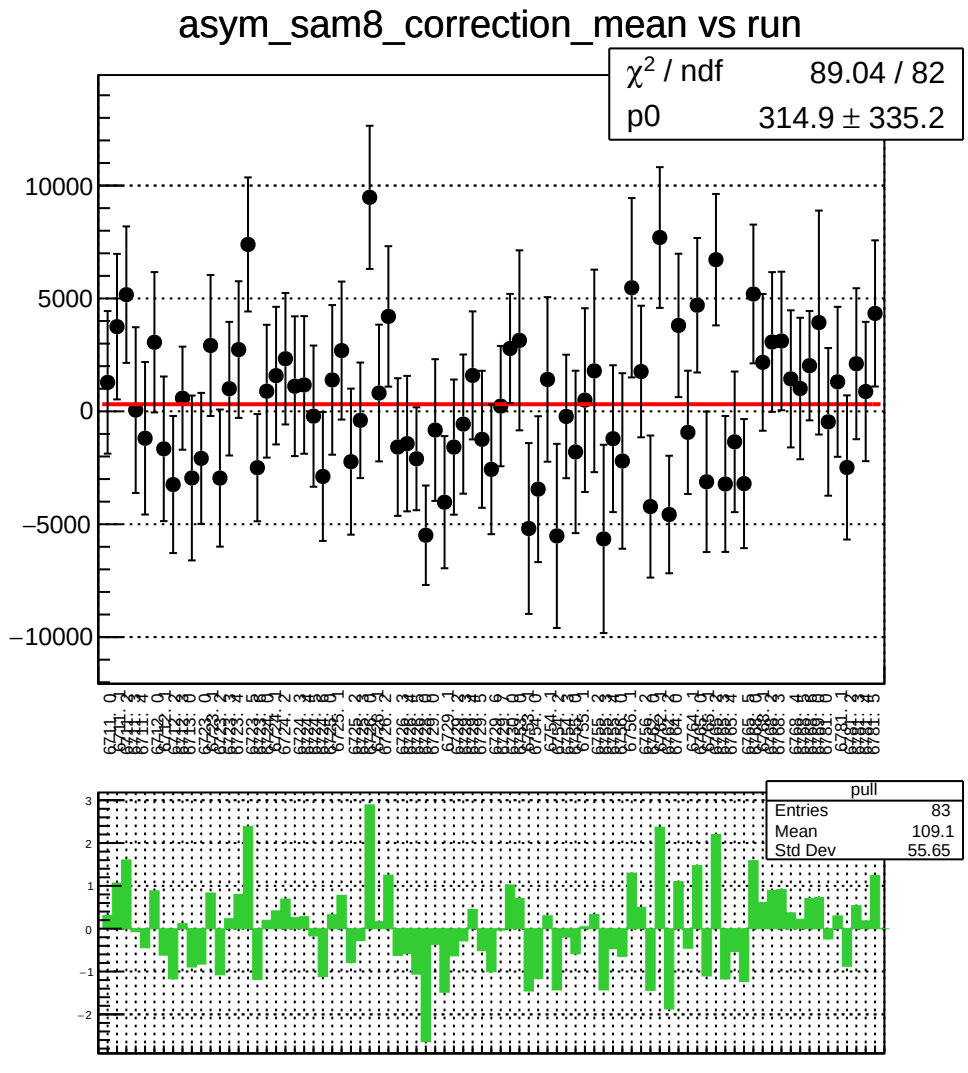

pull1D
Entries 83
Mean −0.02767
Std Dev 1.063
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

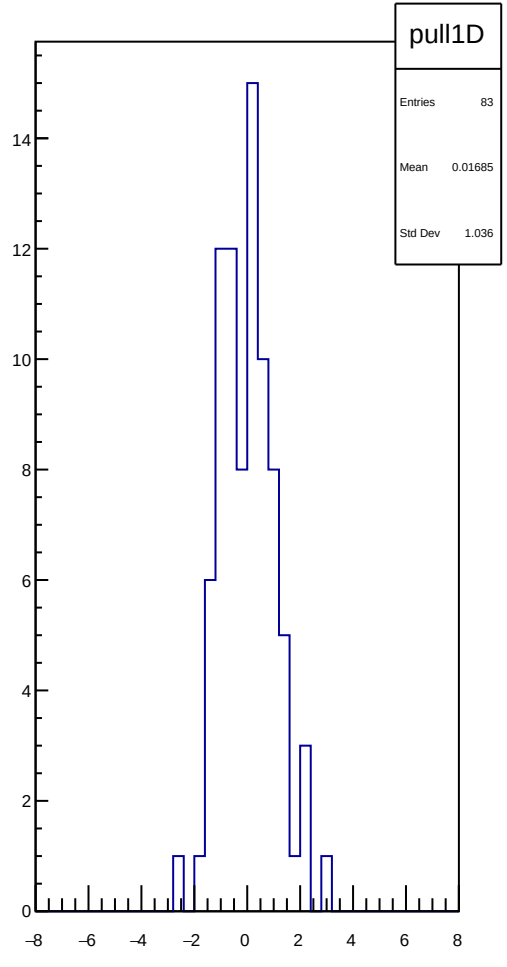

asym_sam7_rms vs run
χ^2 / ndf 1.373e+04 / 82
p0 328 ± 0.2577
460
440
420
400
380
360
340
320
300
280


dit_asym_sam8_mean vs run
χ² / ndf 80.35 / 82
p0 161.5 ± 70.34
2000
1000
0
−1000
−2000
pull
Entries 83
Mean 31.55
Std Dev 72.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

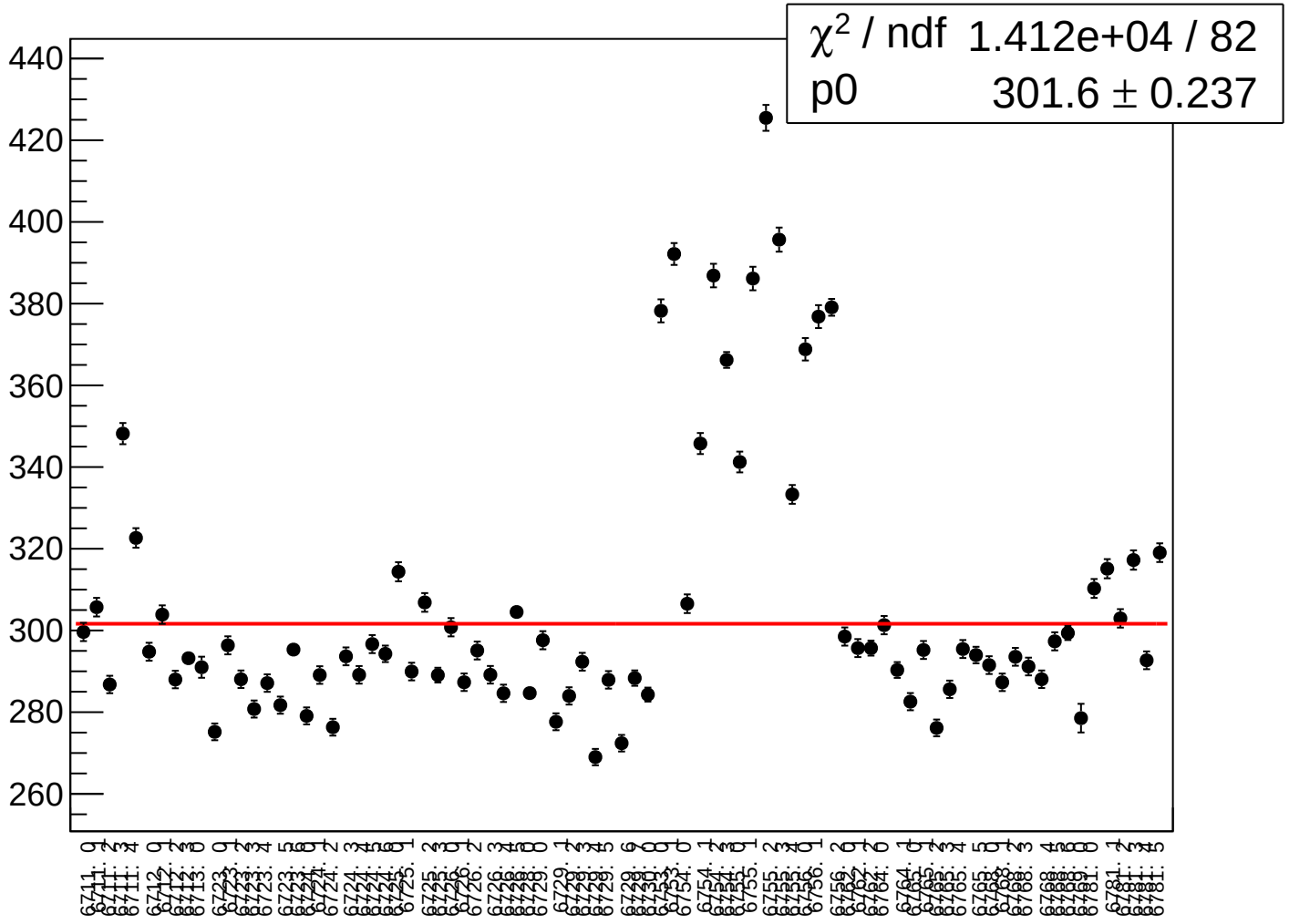

pull1D
Entries 83
Mean −0.01269
Std Dev 0.9838
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

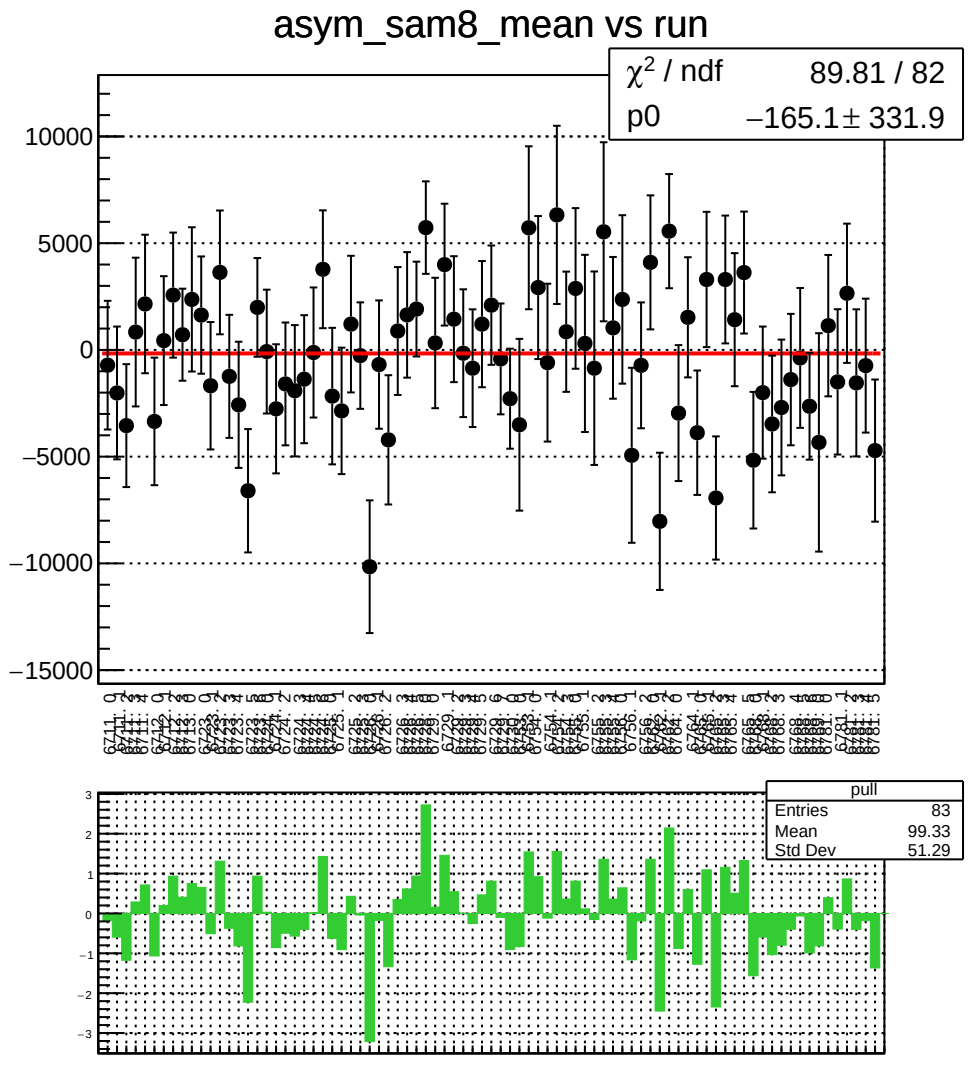

dit_asym_sam8_rms vs run
χ² / ndf 4588 / 82
p0 63.49 ± 0.04974
80
75
70
65
60

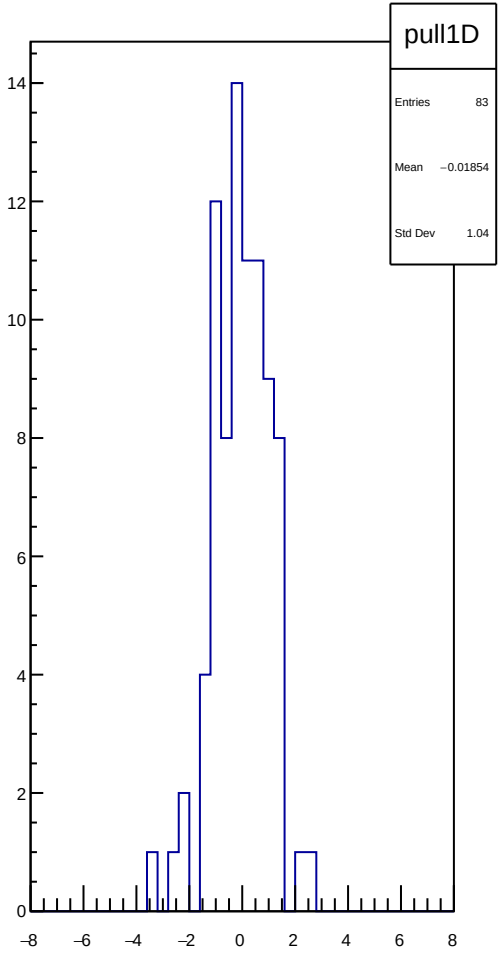

asym_sam8_correction_mean vs run
χ² / ndf 89.04 / 82
p0 314.9 ± 335.2
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 109.1
Std Dev 55.65
3
2
1
0
−1
−2

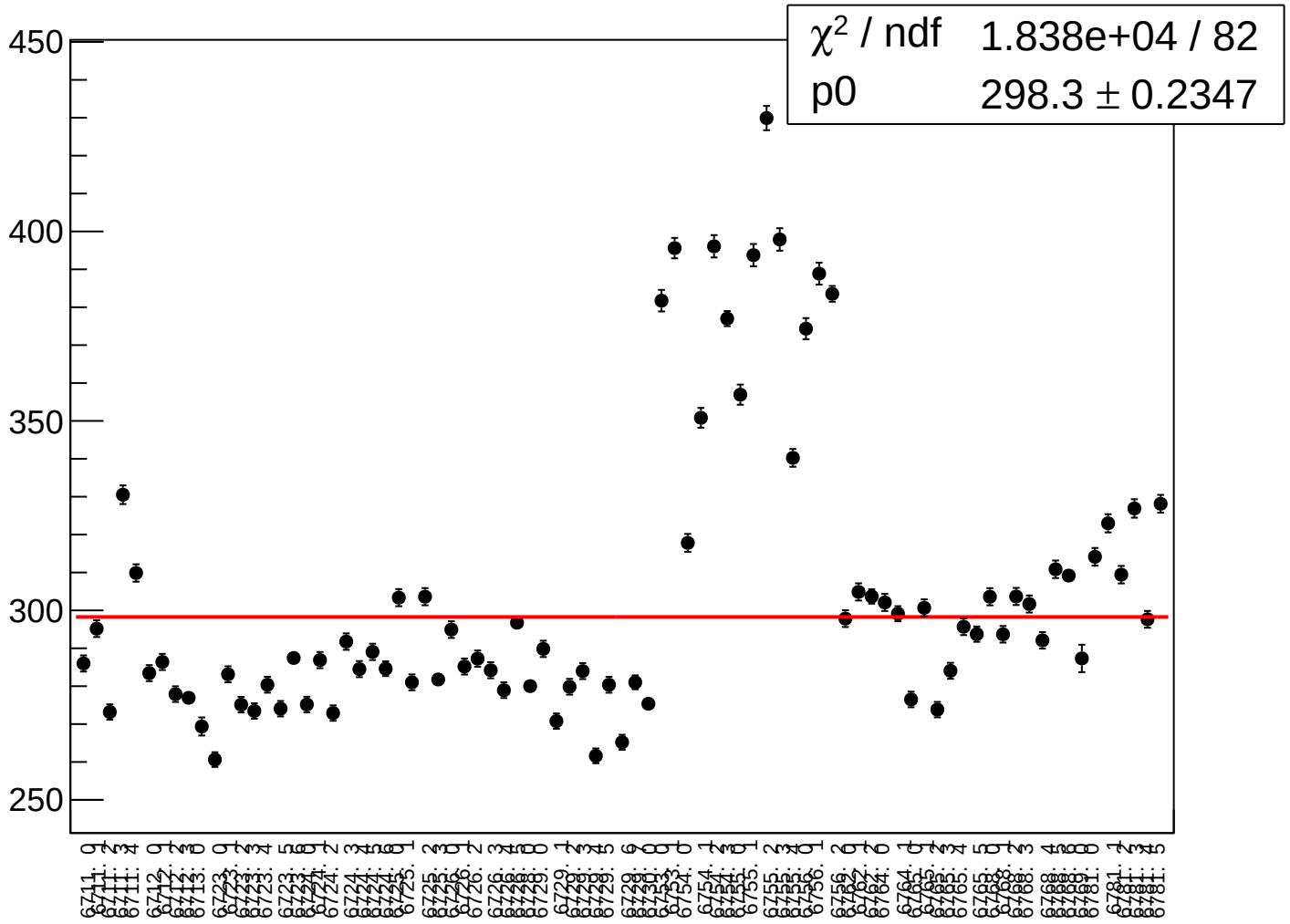

pull1D
Entries 83
Mean 0.01685
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

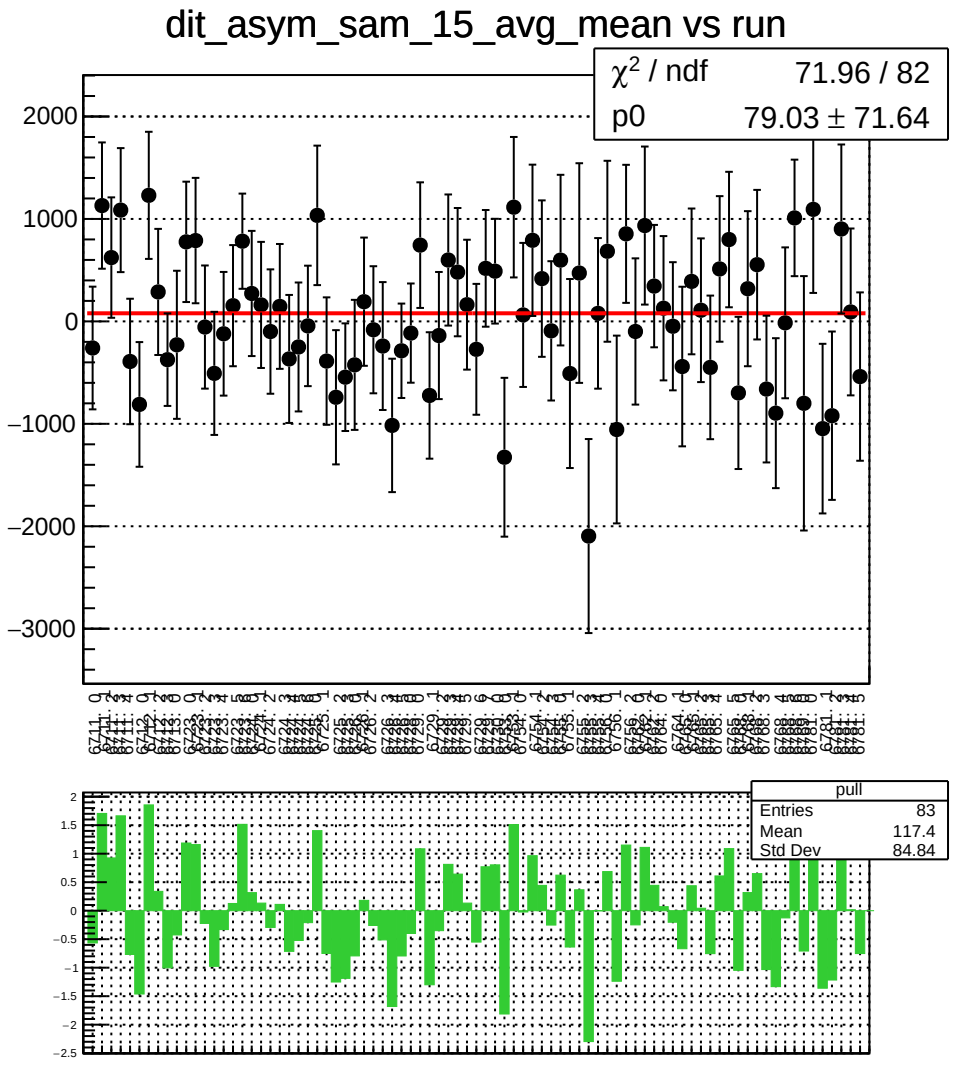
asym_sam8_correction_rms vs run

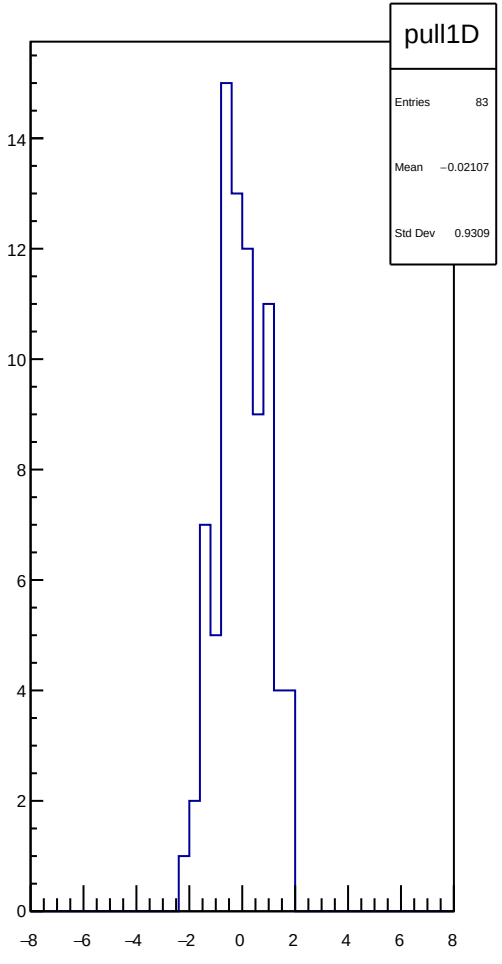


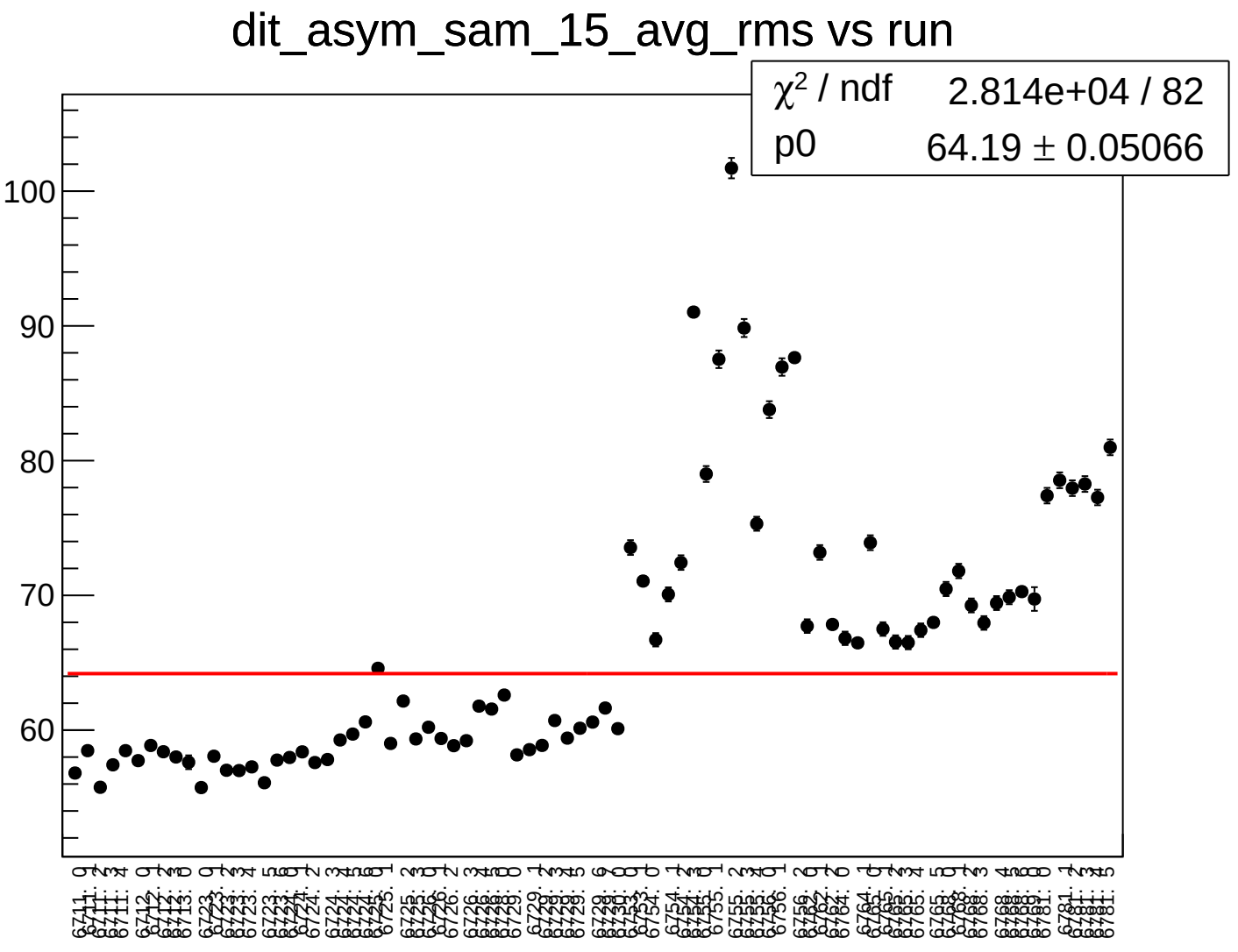

asym_sam8_mean vs run
χ² / ndf 89.81 / 82
p0 −165.1± 331.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 99.33
Std Dev 51.29
3
2
1
0
−1
−2
−3

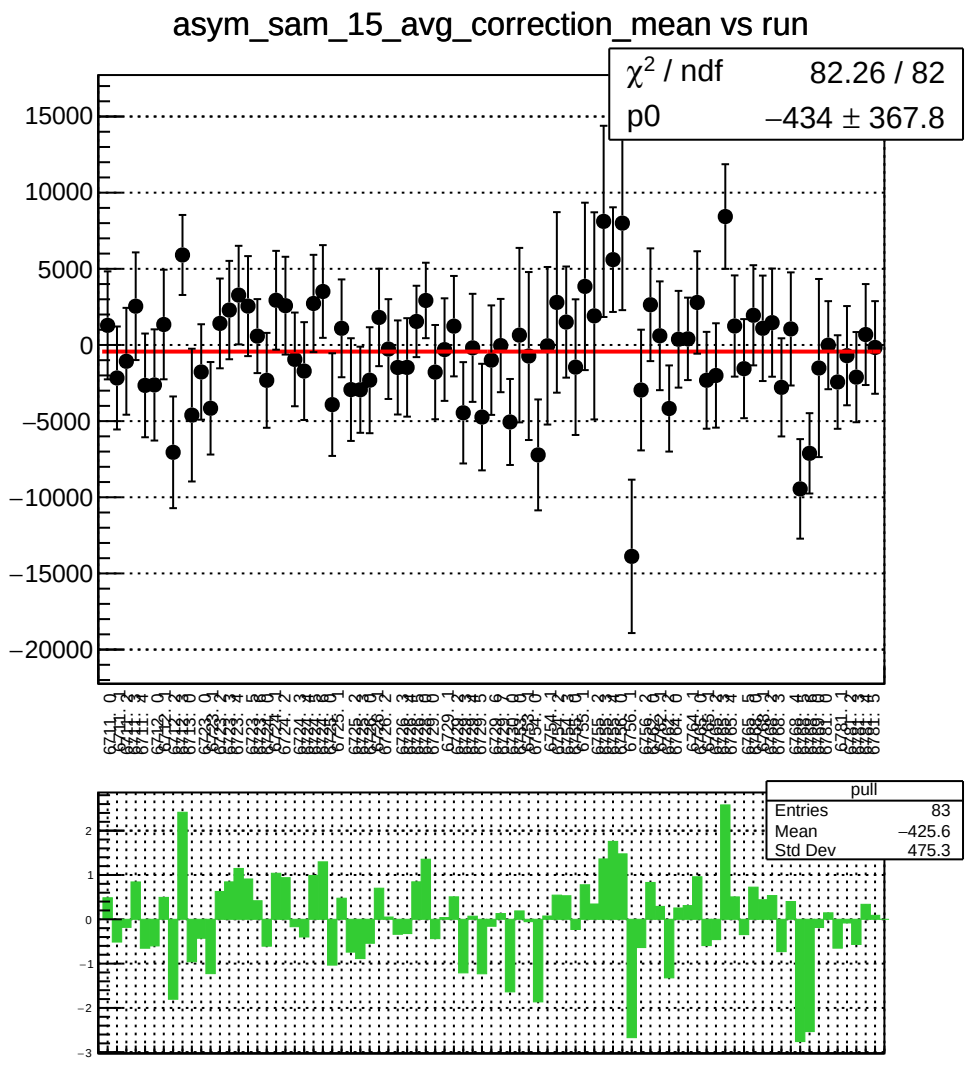

pull1D
Entries 83
Mean −0.01854
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

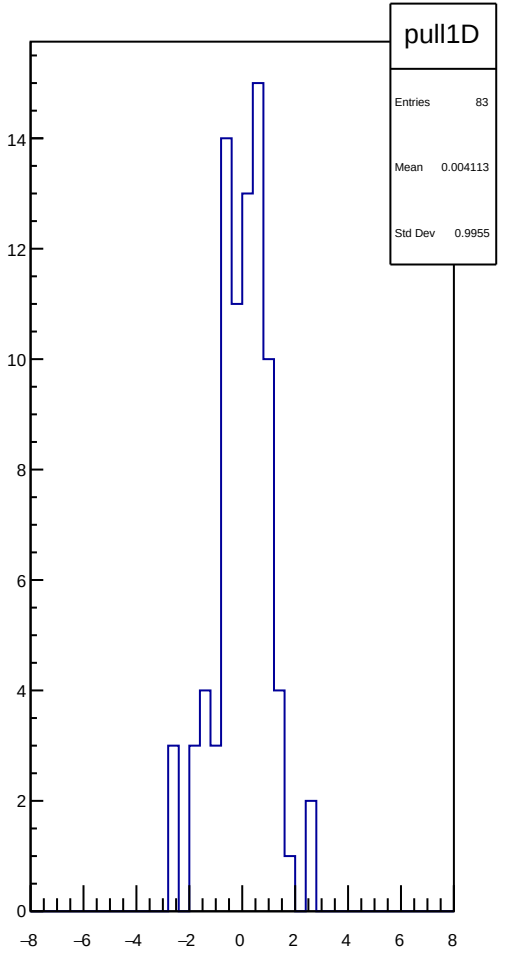

asym_sam8_rms vs run
χ^2 / ndf 1.838e+04 / 82
p0 298.3 ± 0.2347
450
400
350
300
250

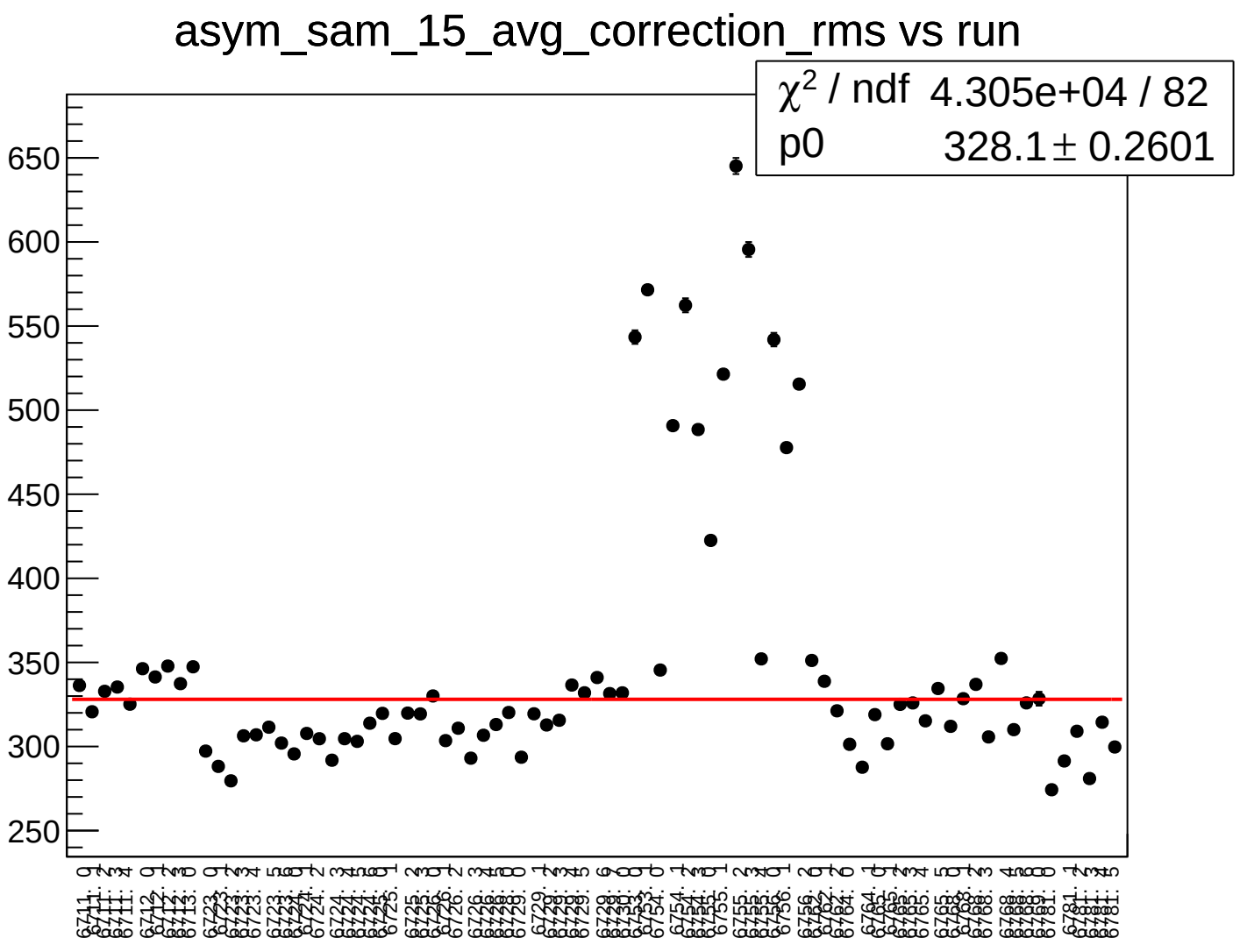

dit_asym_sam_15_avg_mean vs run
χ^2 / ndf 71.96 / 82
p0 79.03 ± 71.64
pull
Entries 83
Mean 117.4
Std Dev 84.84

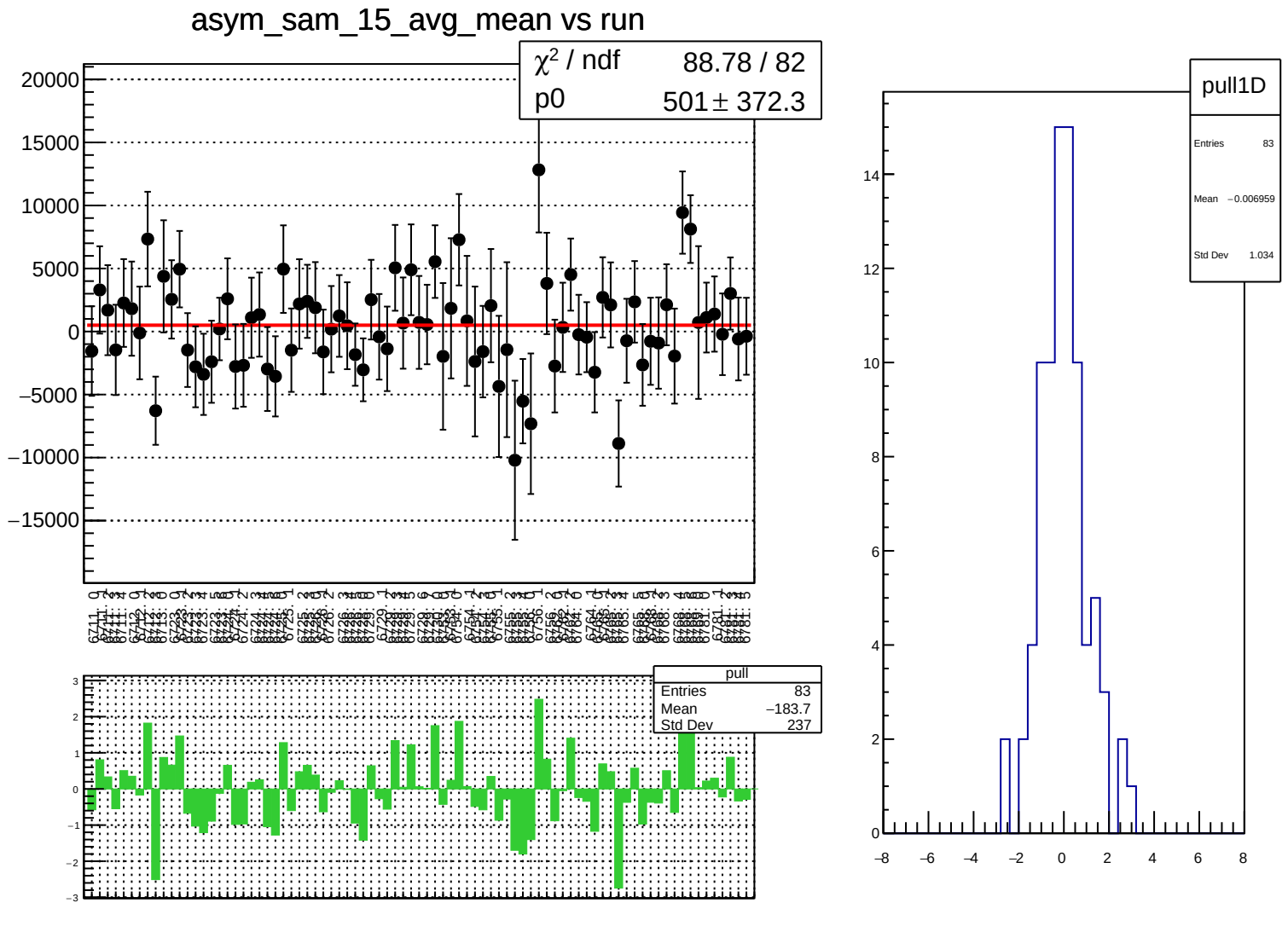

pull1D
Entries 83
Mean −0.02107
Std Dev 0.9309

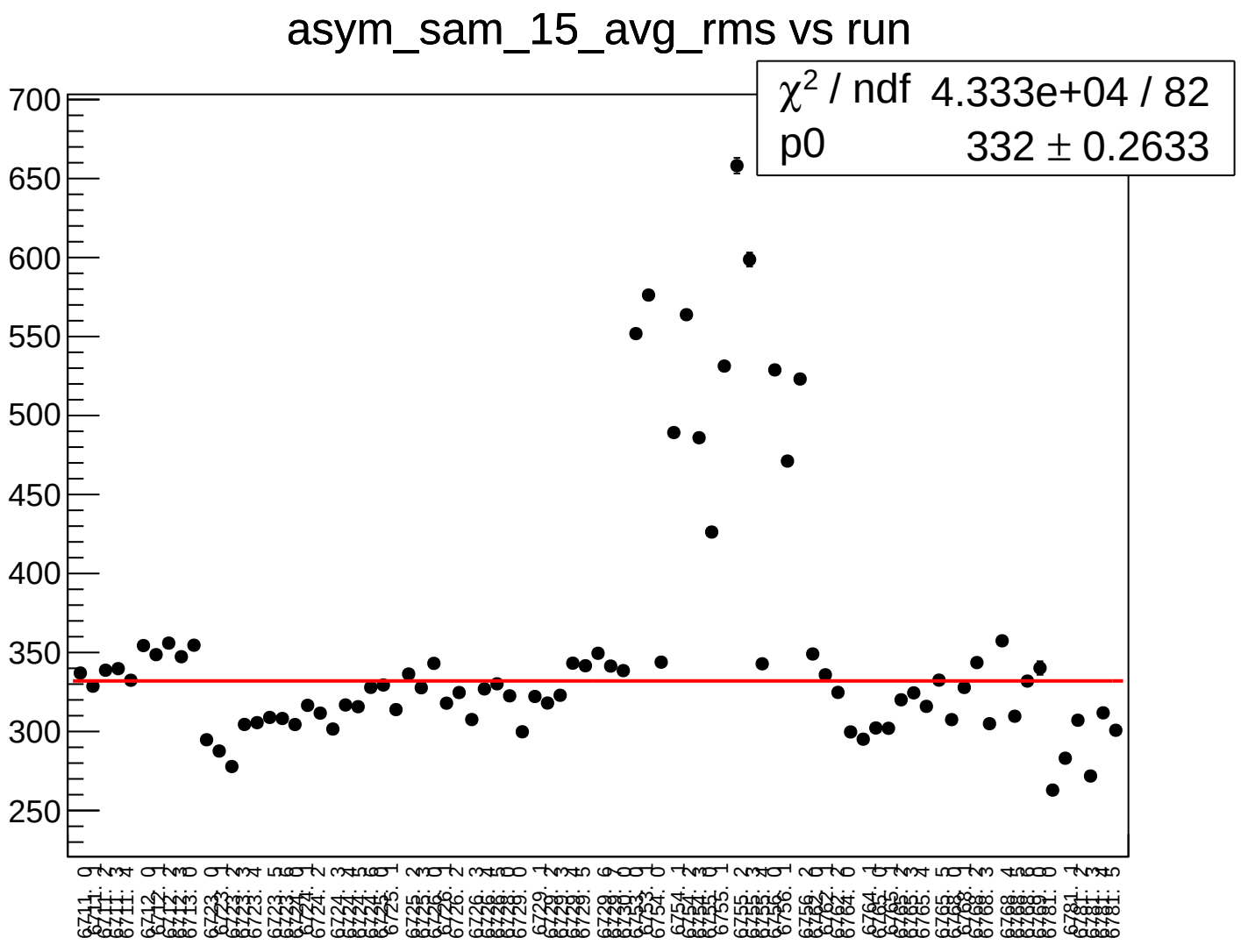

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 2.814e+04 / 82
p0 64.19 ± 0.05066
100
90
80
70
60

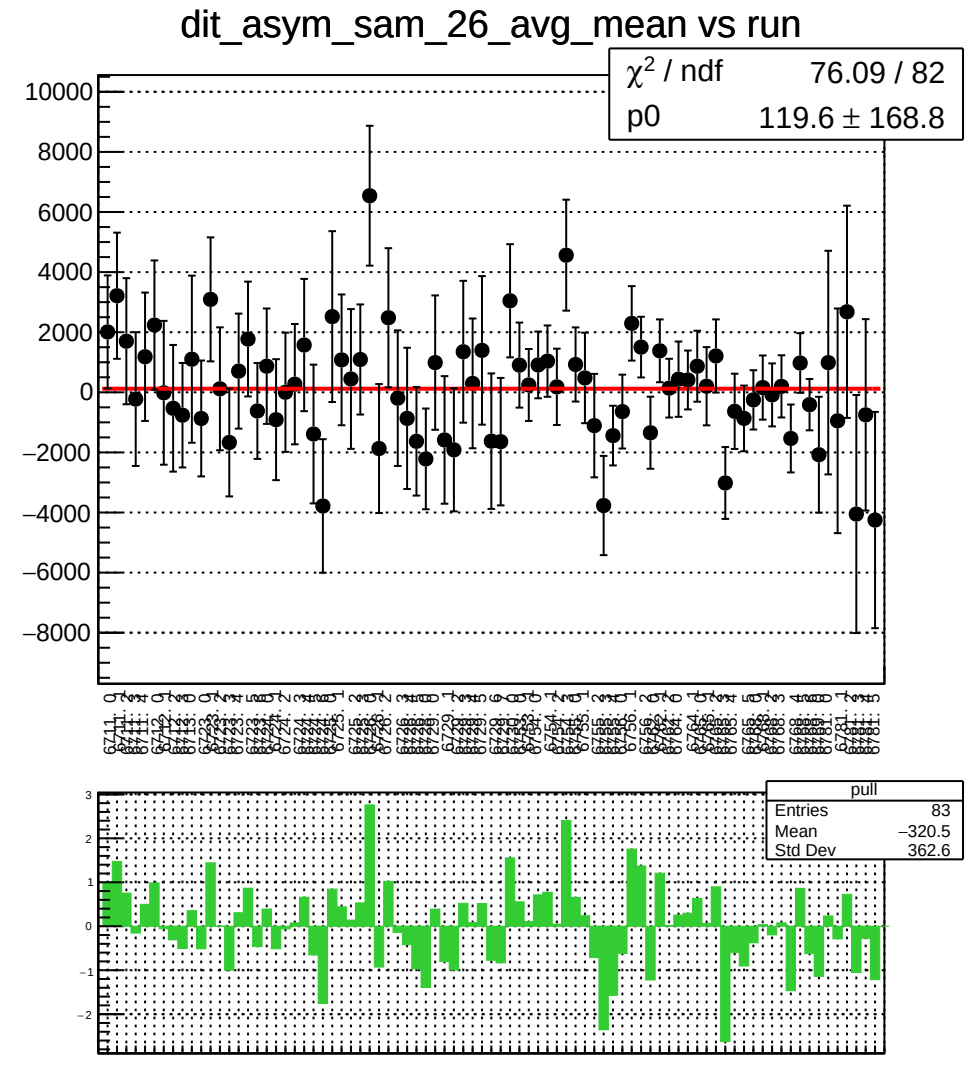

asym_sam_15_avg_correction_mean vs run
χ² / ndf 82.26 / 82
p0 −434 ± 367.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 83
Mean −425.6
Std Dev 475.3
2
1
0
−1
−2
−3

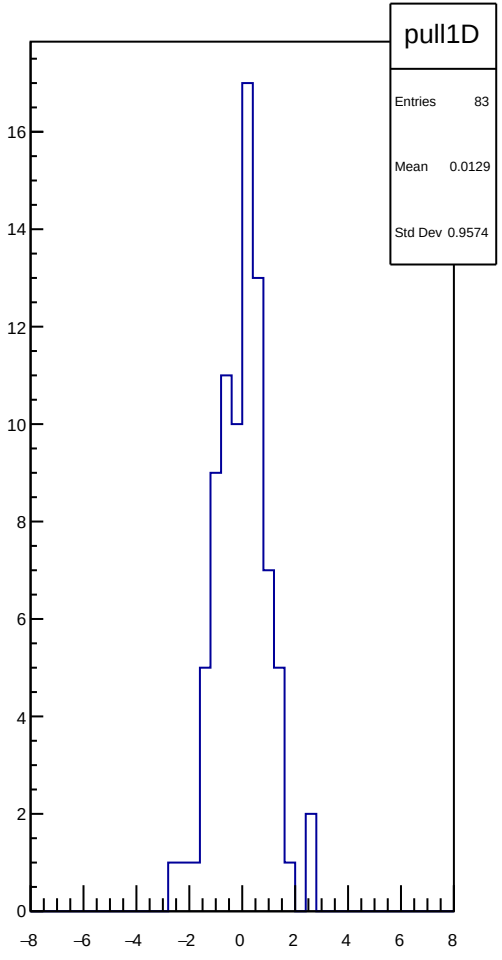

pull1D
Entries 83
Mean 0.004113
Std Dev 0.9955
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

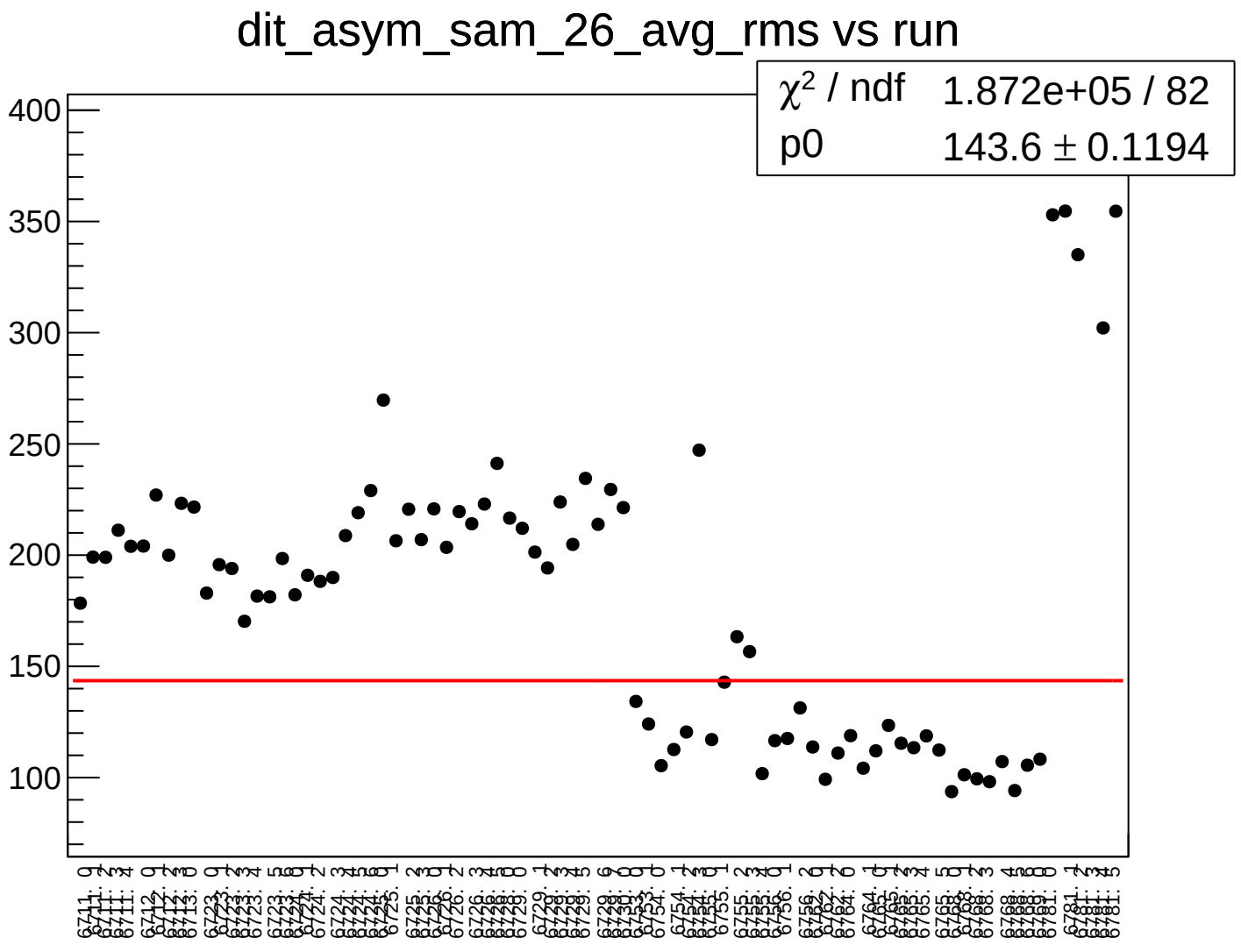

asym_sam_15_avg_correction_rms vs run
χ^2 / ndf 4.305e+04 / 82
p0 328.1 ± 0.2601
650
600
550
500
450
400
350
300
250

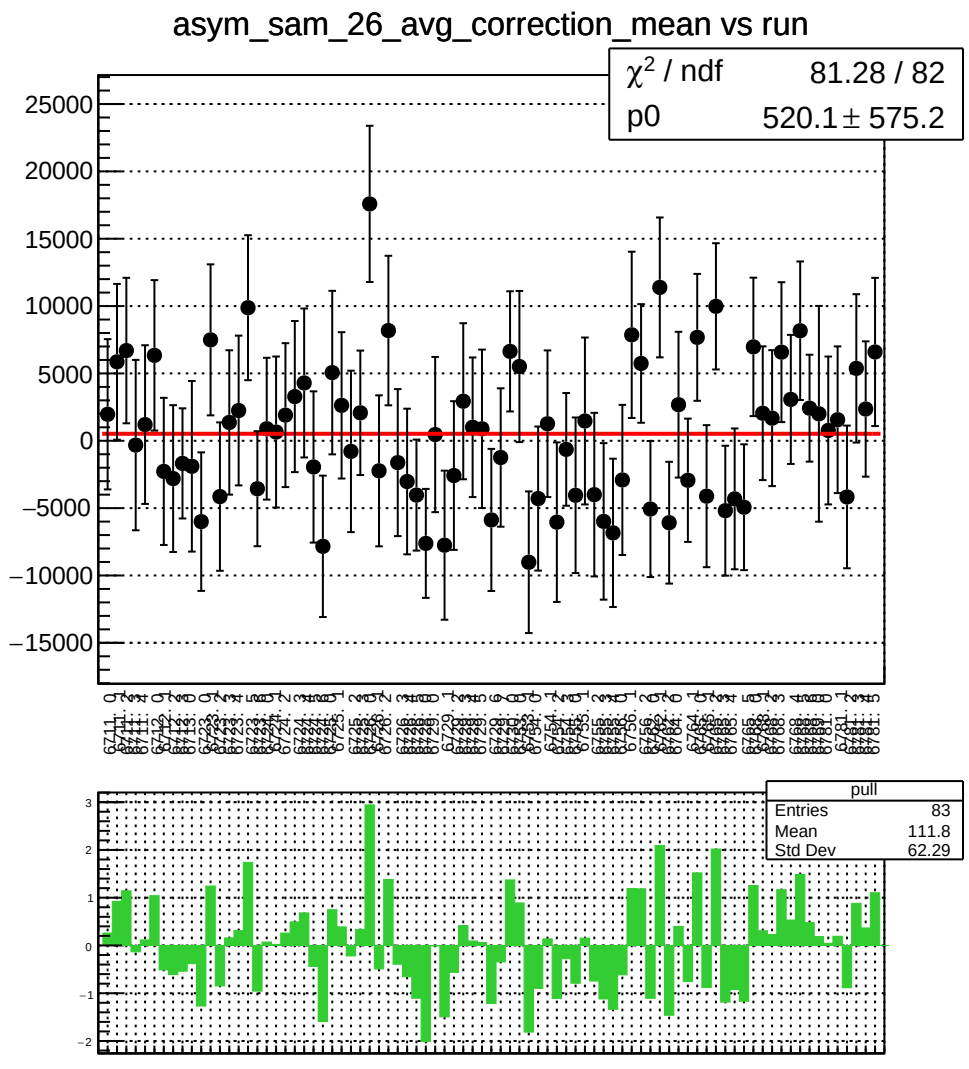

asym_sam_15_avg_mean vs run
χ² / ndf 88.78 / 82
p0 501 ± 372.3
pull
Entries 83
Mean −183.7
Std Dev 237
pull1D
Entries 83
Mean −0.006959
Std Dev 1.034

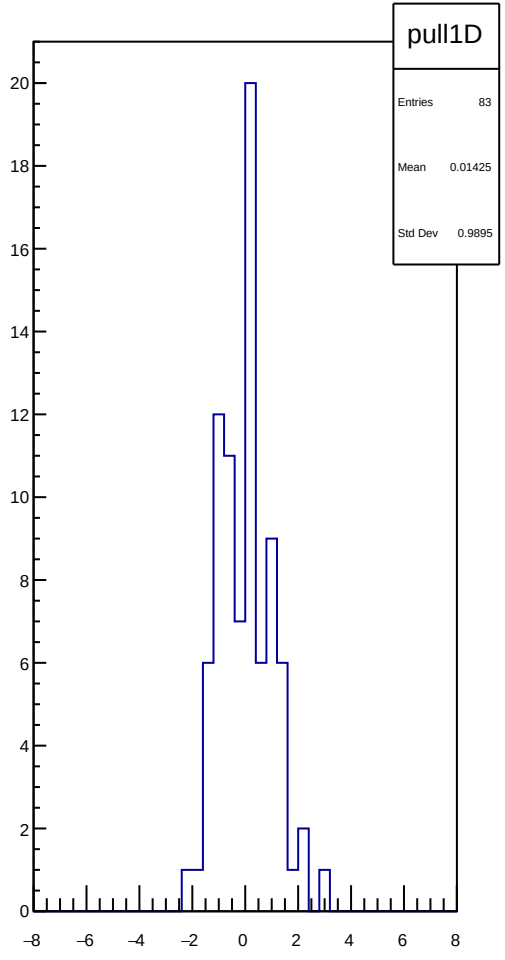

asym_sam_15_avg_rms vs run
χ^2 / ndf 4.333e+04 / 82
p0 332 ± 0.2633
700
650
600
550
500
450
400
350
300
250

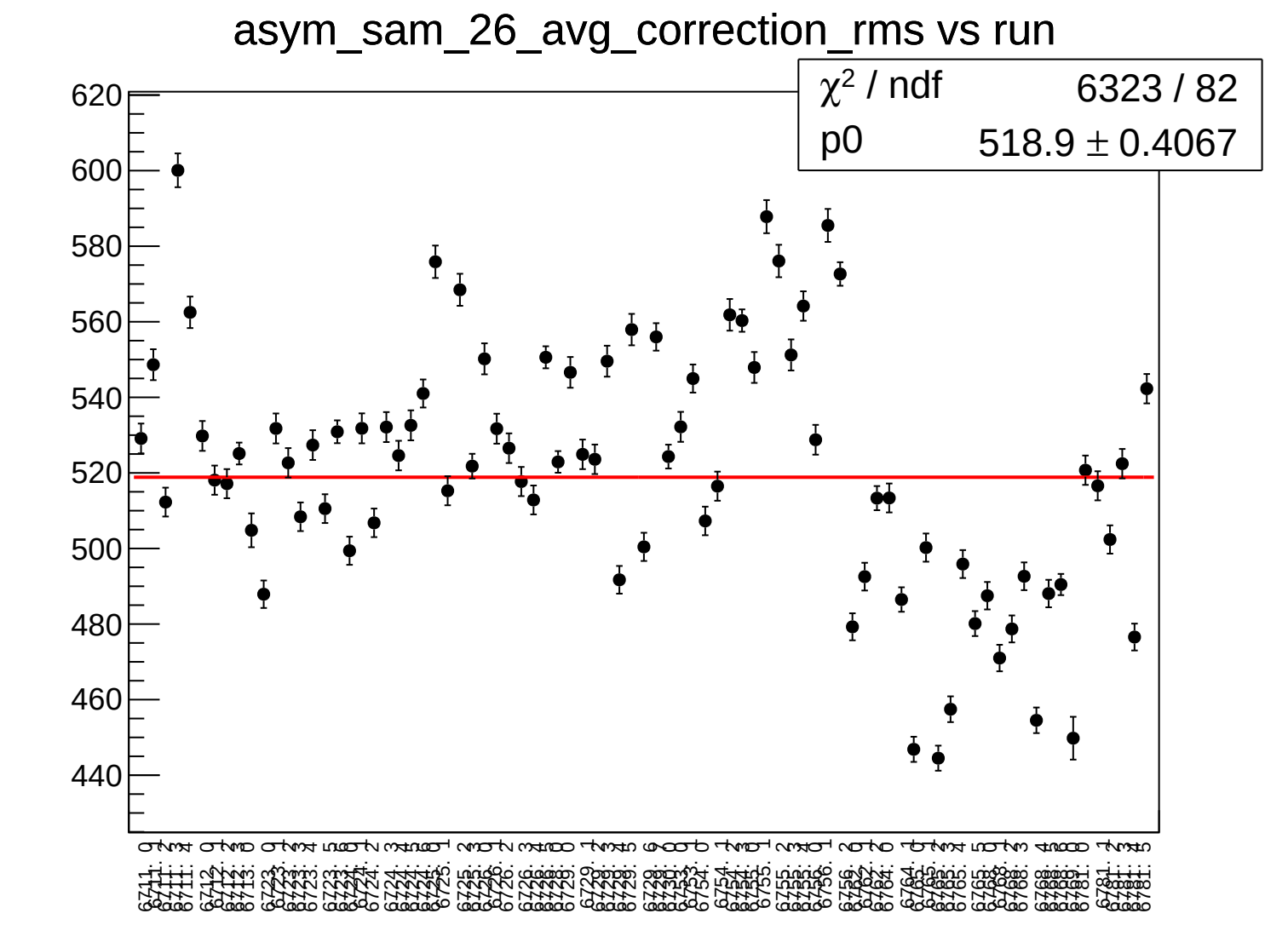

dit_asym_sam_26_avg_mean vs run
χ² / ndf 76.09 / 82
p0 119.6 ± 168.8
pull
Entries 83
Mean −320.5
Std Dev 362.6

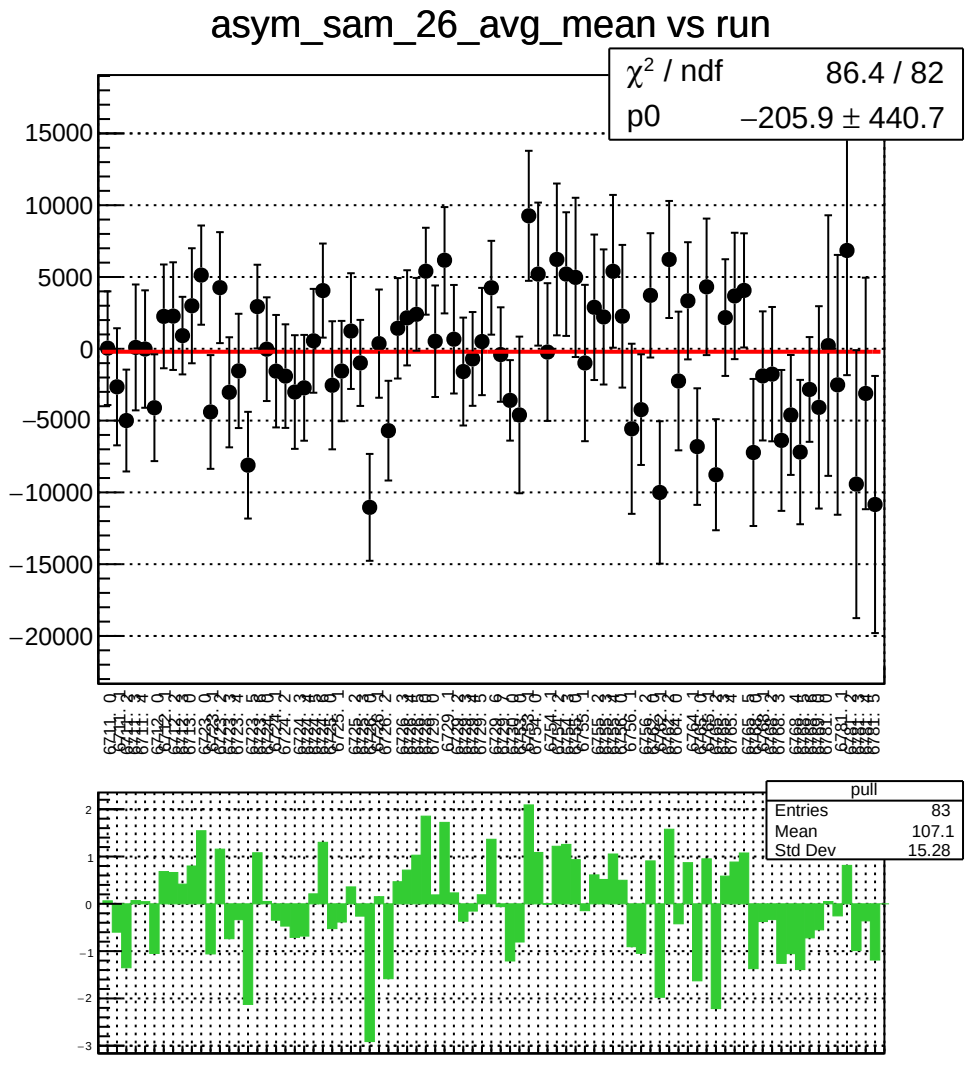

pull1D
Entries 83
Mean 0.0129
Std Dev 0.9574

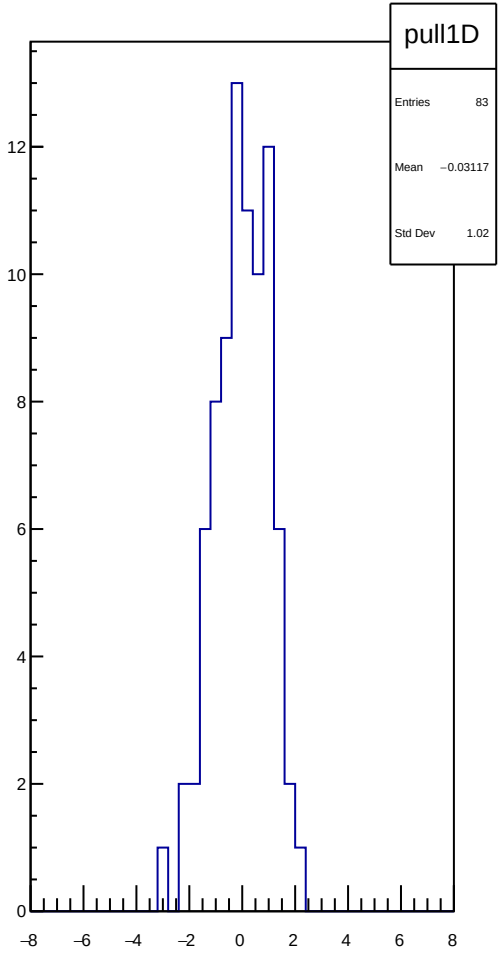

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.872e+05 / 82
p0 143.6 ± 0.1194
400
350
300
250
200
150
100

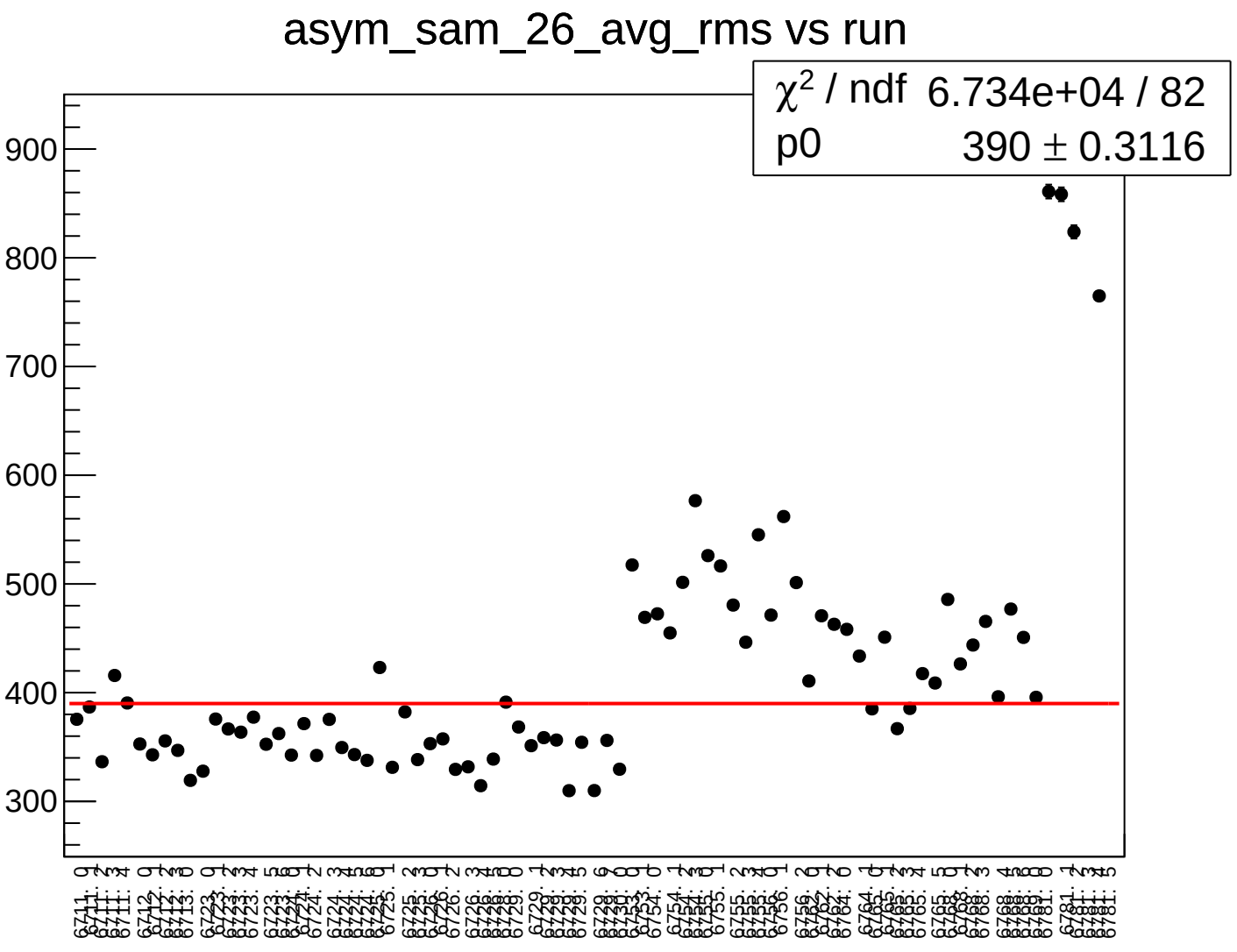

asym_sam_26_avg_correction_mean vs run
χ² / ndf 81.28 / 82
p0 520.1 ± 575.2
pull
Entries 83
Mean 111.8
Std Dev 62.29

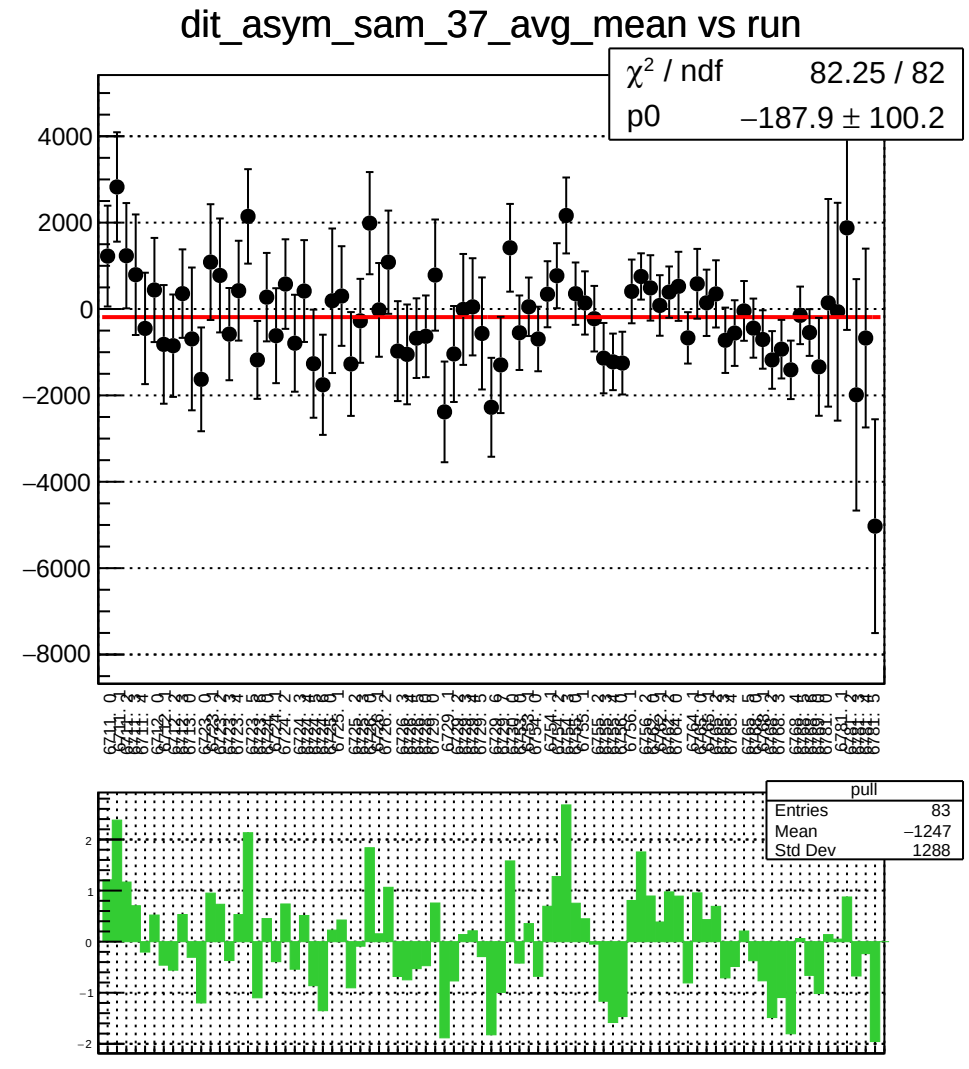

pull1D
Entries 83
Mean 0.01425
Std Dev 0.9895

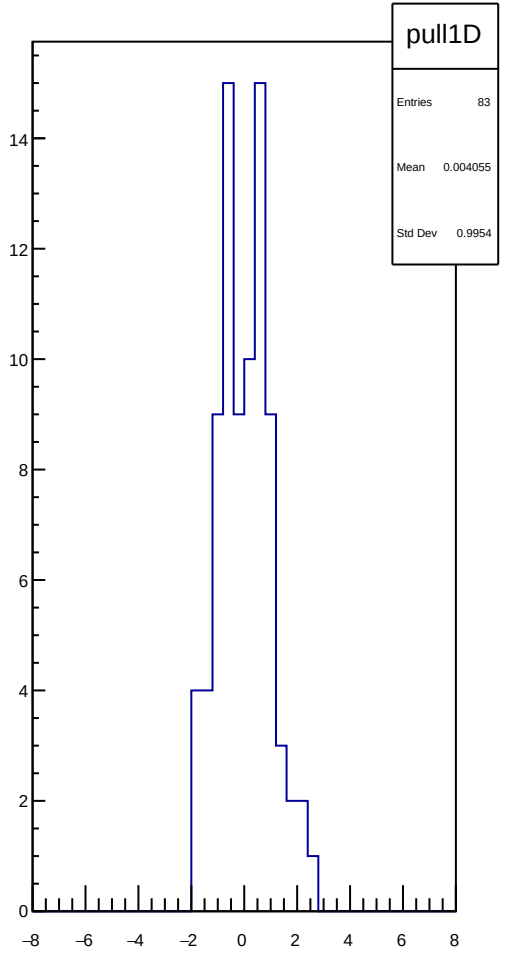

asym_sam_26_avg_correction_rms vs run
χ² / ndf 6323 / 82
p0 518.9 ± 0.4067
620
600
580
560
540
520
500
480
460
440

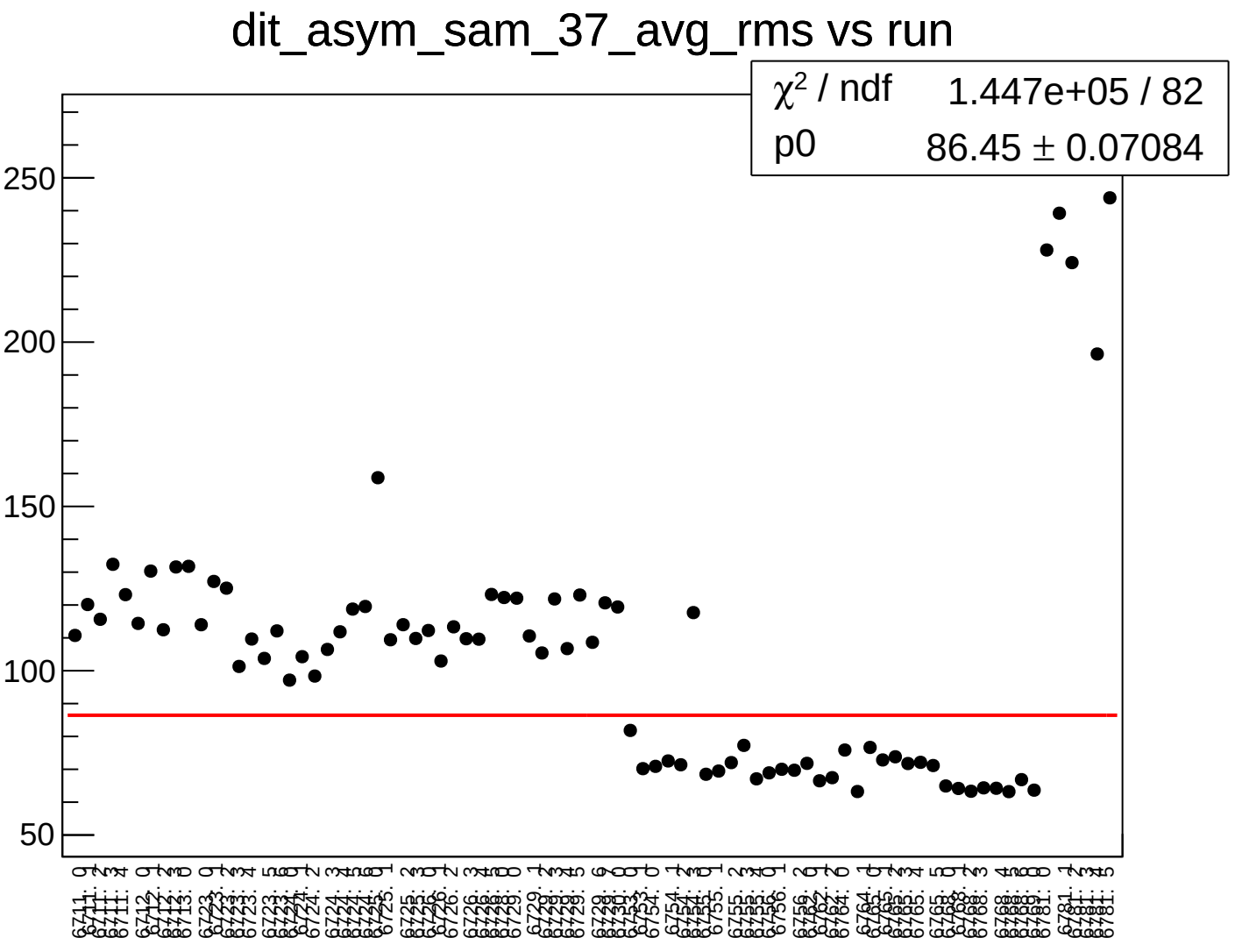

asym_sam_26_avg_mean vs run
χ² / ndf 86.4 / 82
p0 −205.9 ± 440.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 83
Mean 107.1
Std Dev 15.28
2
1
0
−1
−2
−3

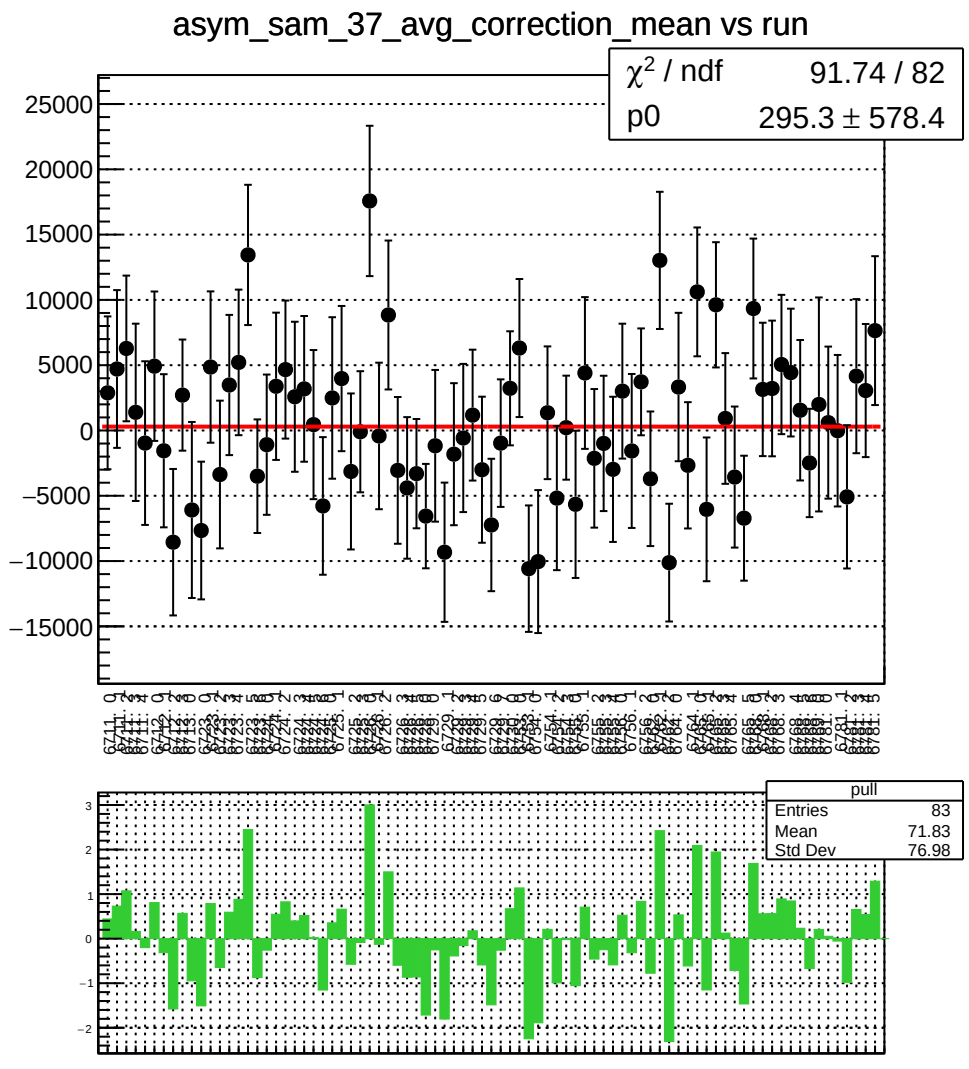

pull1D
Entries 83
Mean −0.03117
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

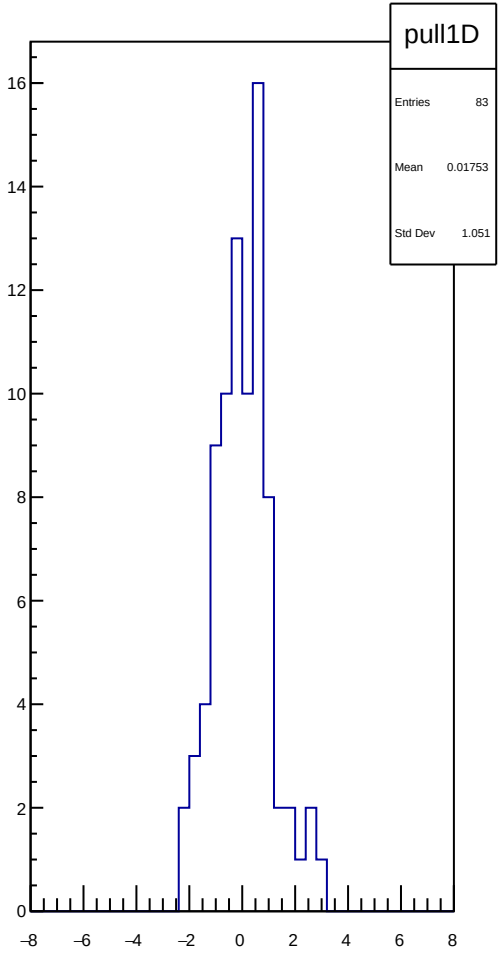

asym_sam_26_avg_rms vs run
χ^2 / ndf 6.734e+04 / 82
p0 390 ± 0.3116
900
800
700
600
500
400
300

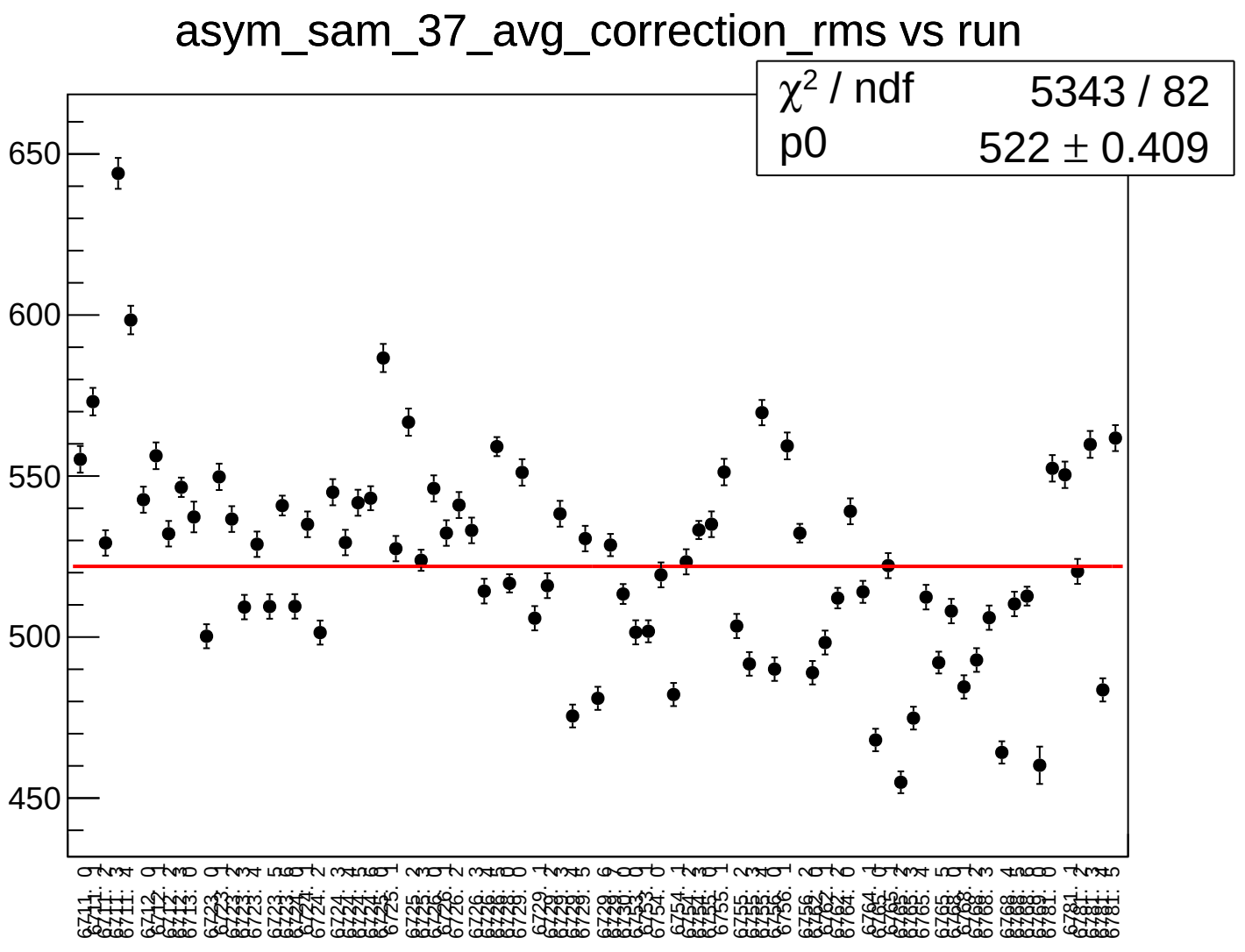

dit_asym_sam_37_avg_mean vs run
χ² / ndf 82.25 / 82
p0 −187.9 ± 100.2
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 83
Mean −1247
Std Dev 1288
2
1
0
−1
−2

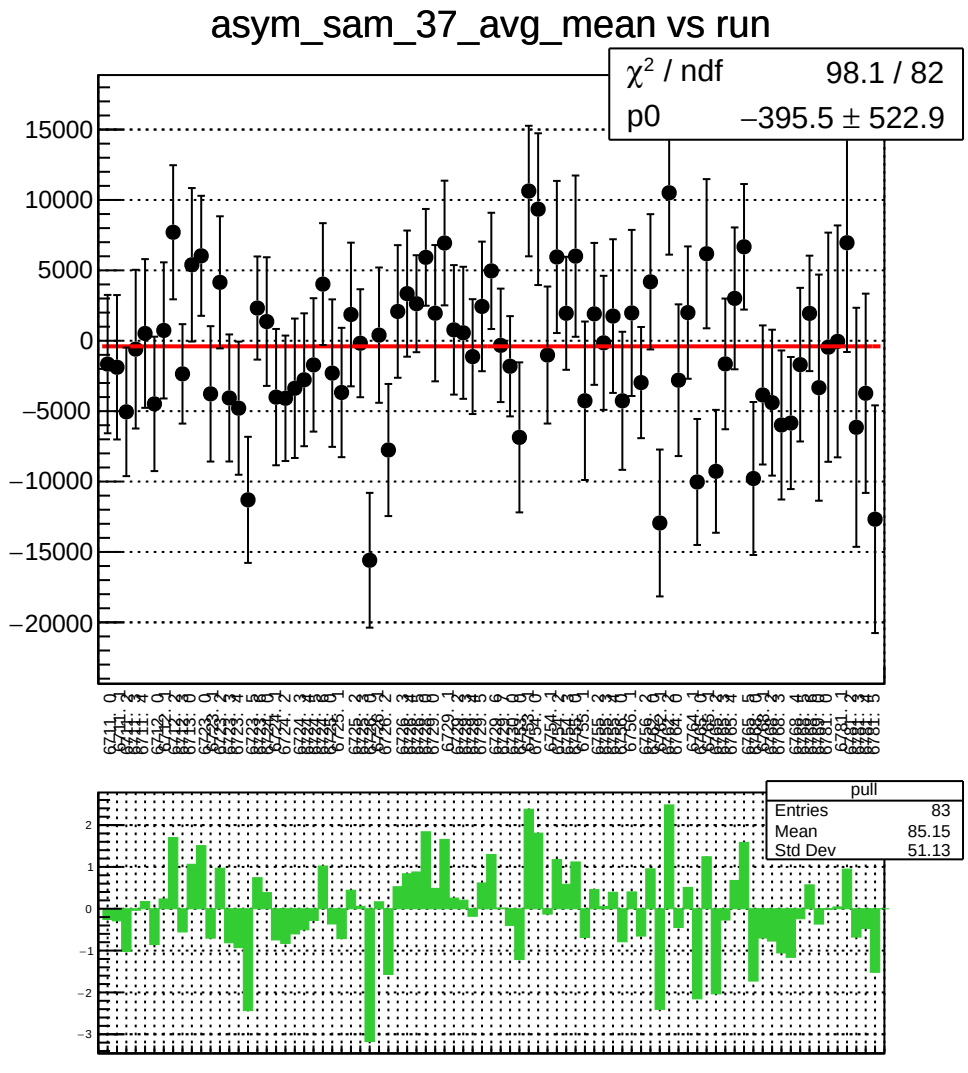

pull1D
Entries 83
Mean 0.004055
Std Dev 0.9954
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

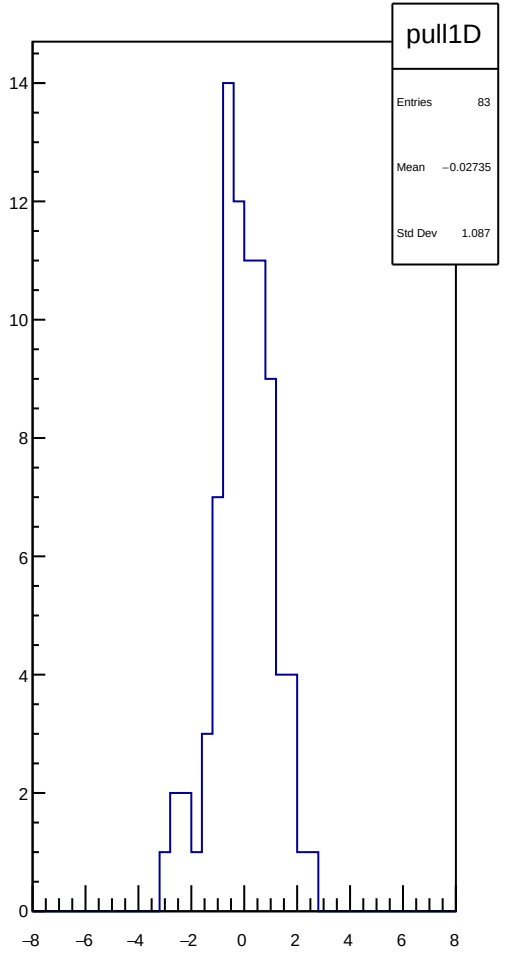

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.447e+05 / 82
p0 86.45 ± 0.07084
250
200
150
100
50

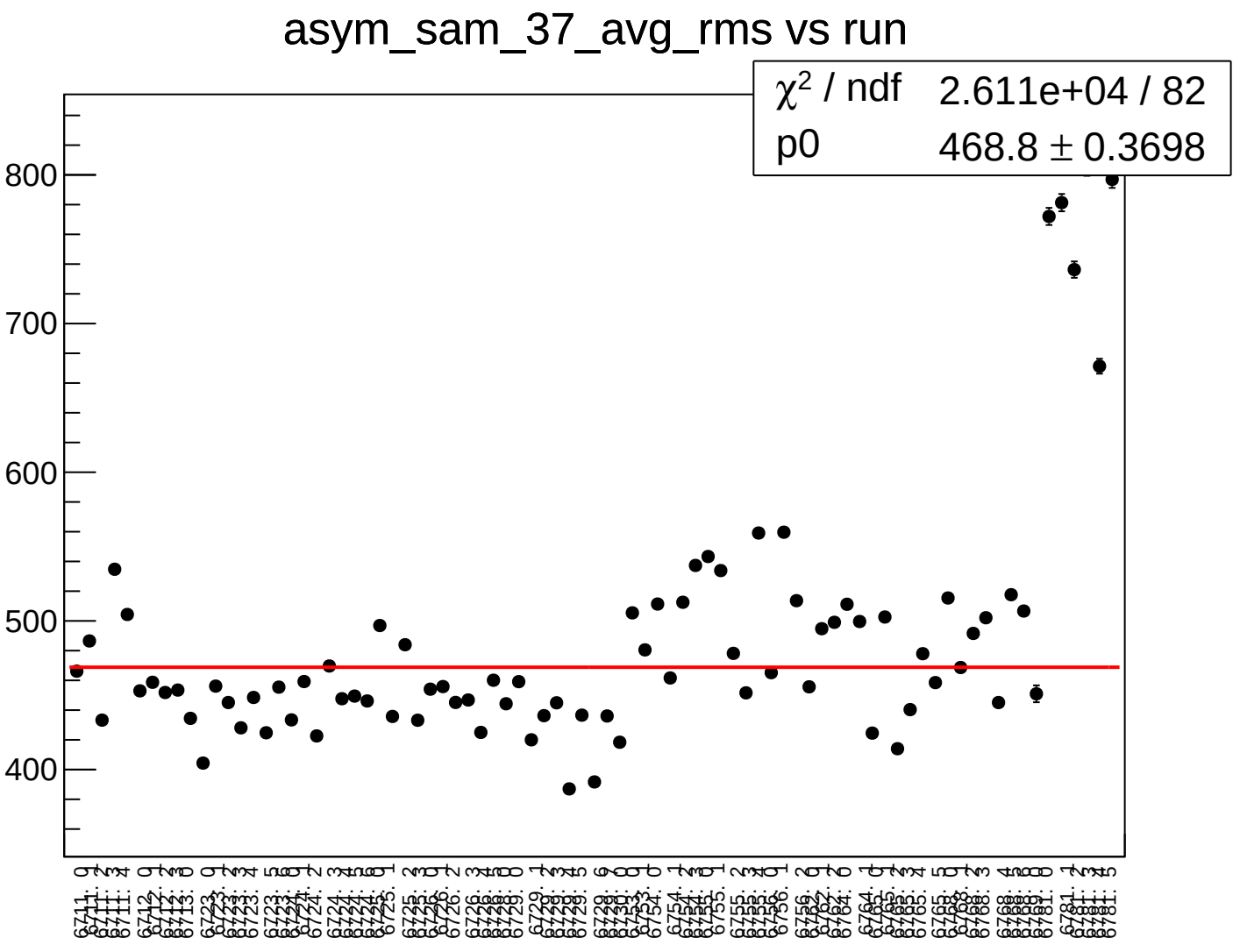

asym_sam_37_avg_correction_mean vs run
χ² / ndf 91.74 / 82
p0 295.3 ± 578.4
pull
Entries 83
Mean 71.83
Std Dev 76.98

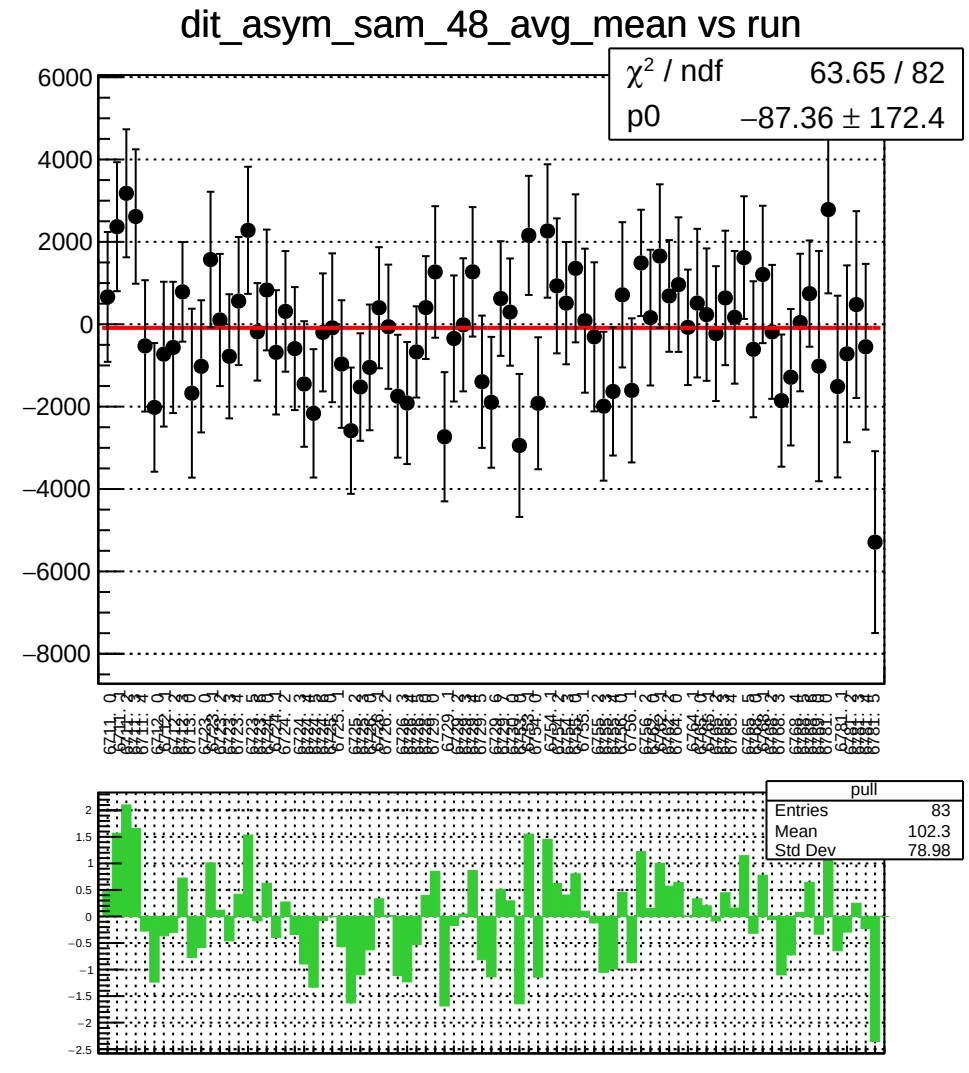

pull1D
Entries 83
Mean 0.01753
Std Dev 1.051

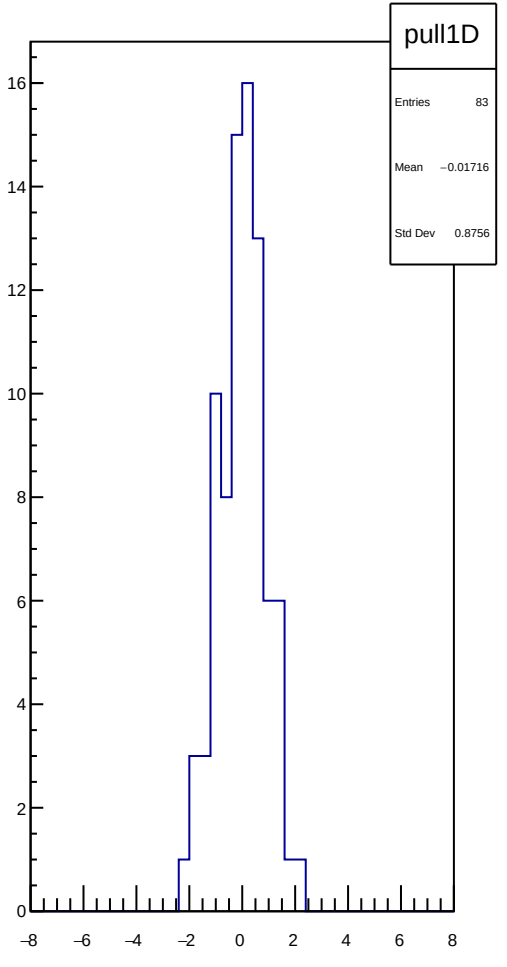

asym_sam_37_avg_correction_rms vs run
χ² / ndf 5343 / 82
p0 522 ± 0.409
650
600
550
500
450

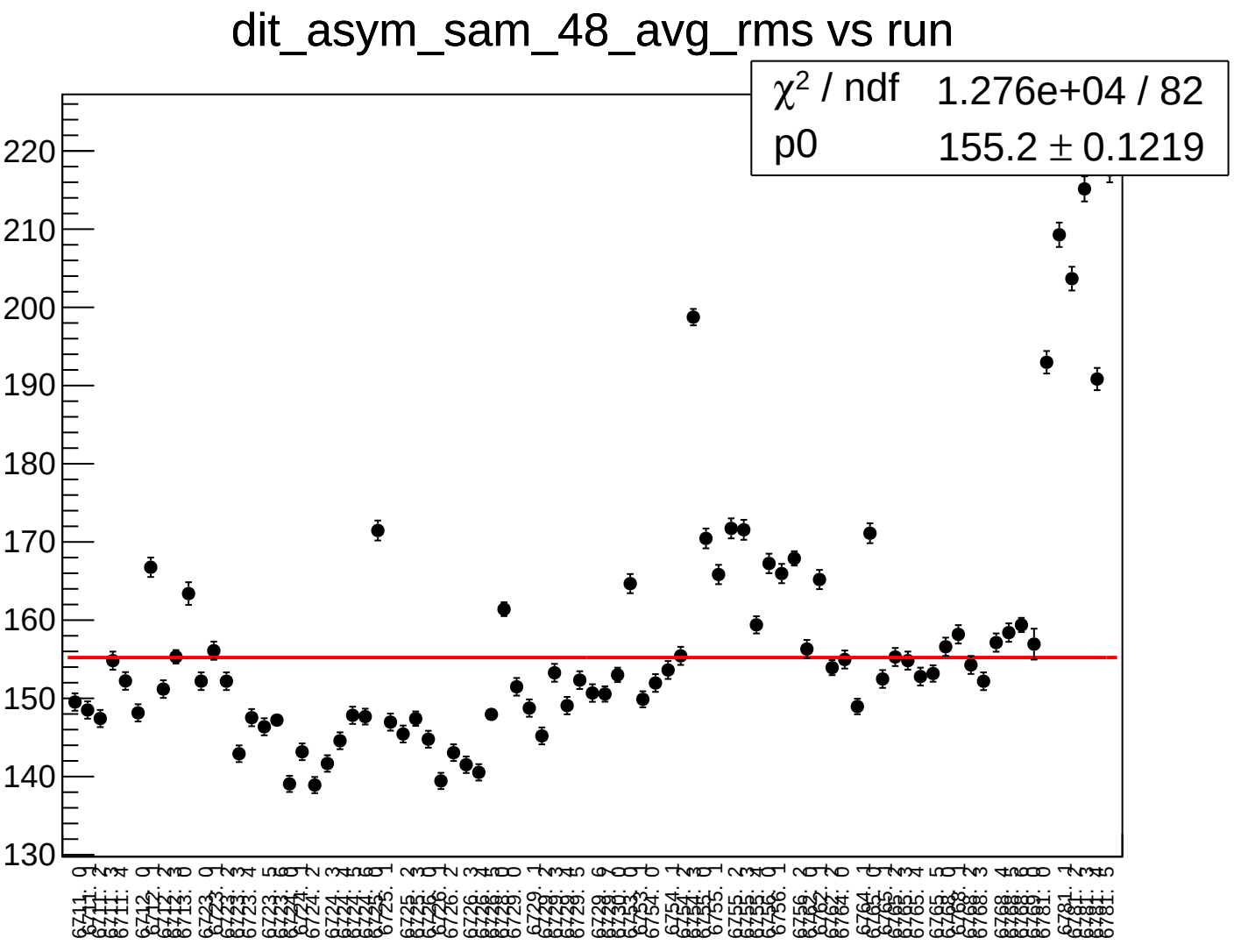

asym_sam_37_avg_mean vs run
χ² / ndf 98.1 / 82
p0 −395.5 ± 522.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 83
Mean 85.15
Std Dev 51.13
2
1
0
−1
−2
−3

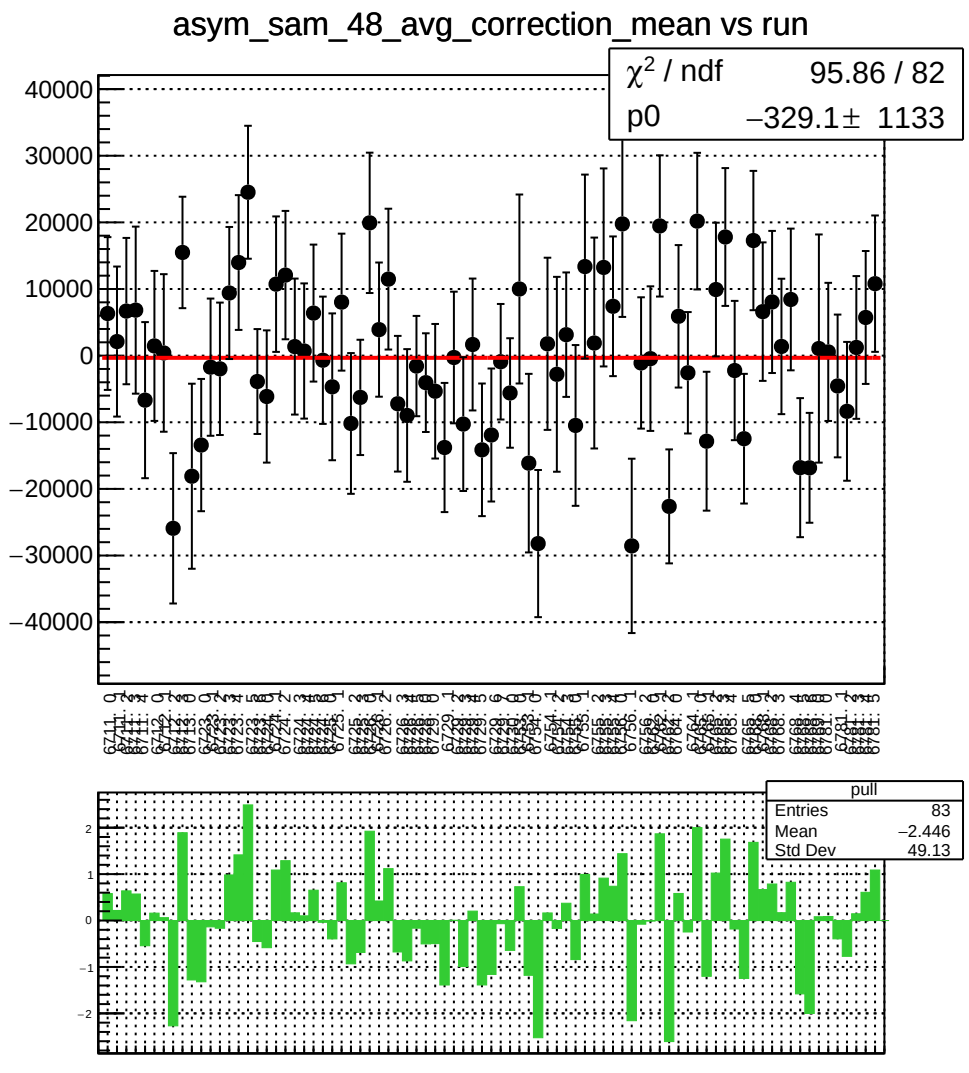

pull1D
Entries 83
Mean −0.02735
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

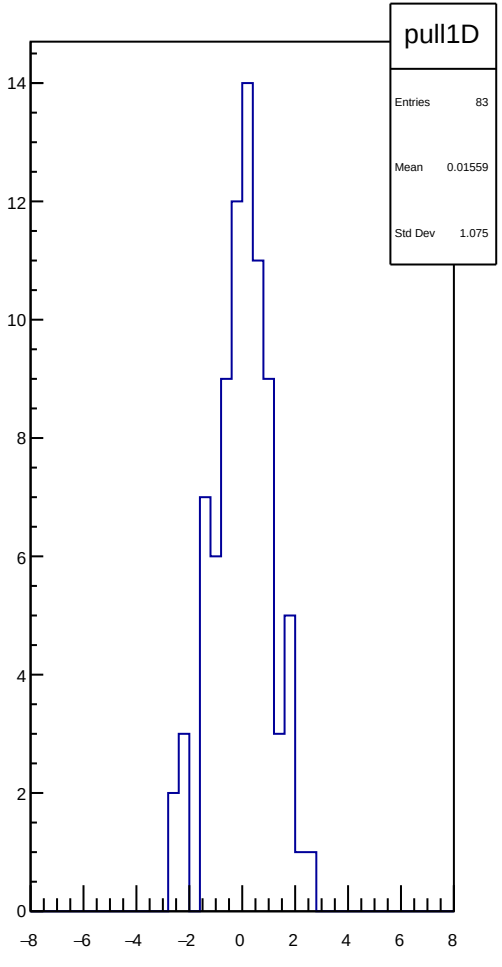

asym_sam_37_avg_rms vs run
χ^2 / ndf 2.611e+04 / 82
p0 468.8 ± 0.3698
800
700
600
500
400

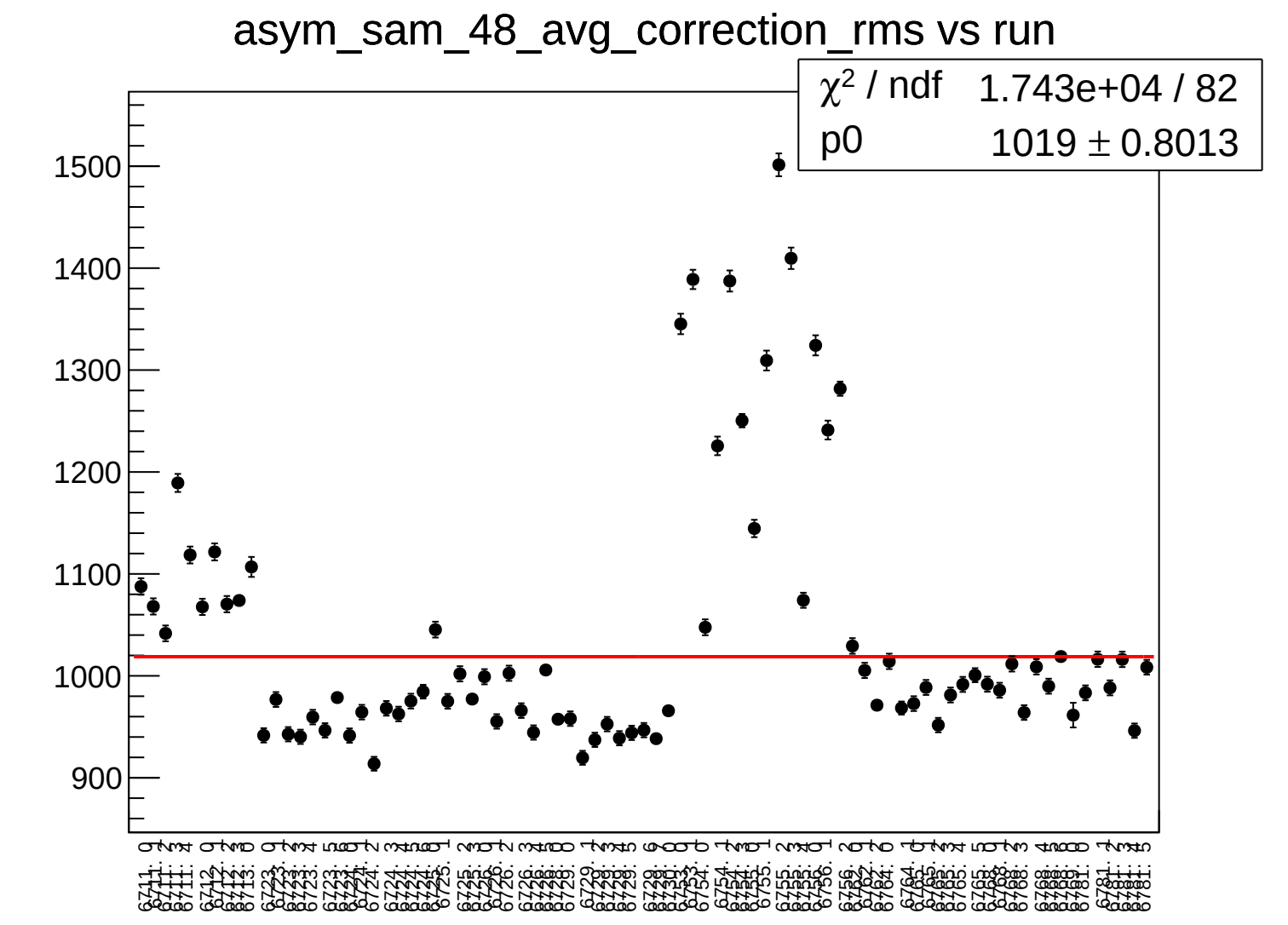

dit_asym_sam_48_avg_mean vs run
χ² / ndf 63.65 / 82
p0 −87.36 ± 172.4
pull
Entries 83
Mean 102.3
Std Dev 78.98

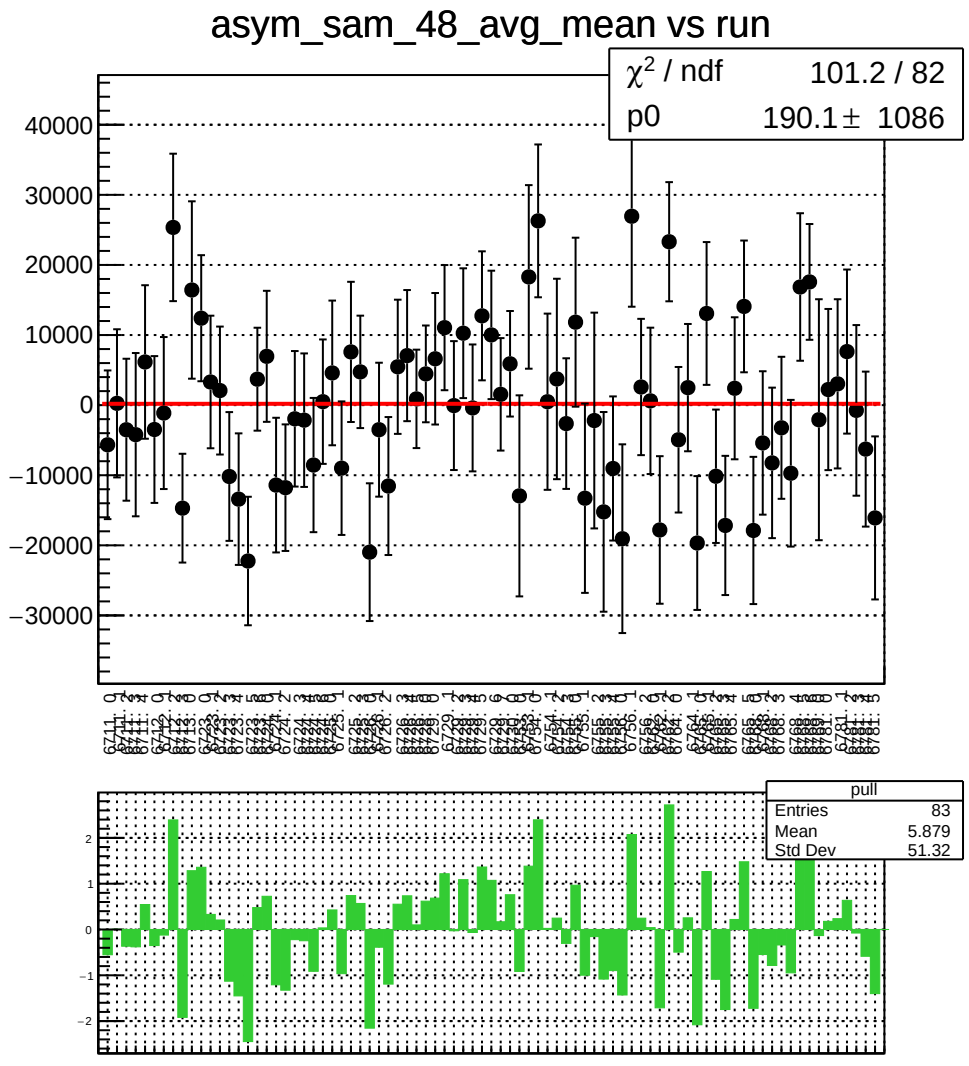

pull1D
Entries 83
Mean −0.01716
Std Dev 0.8756

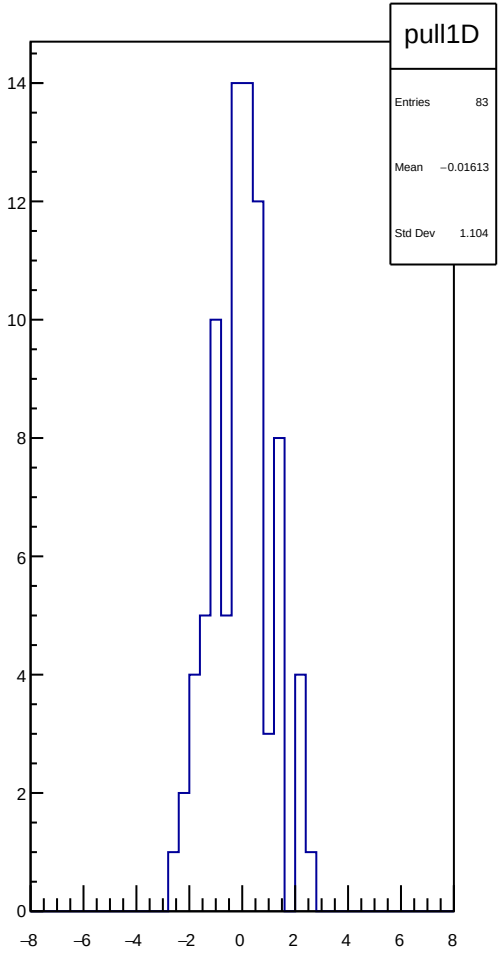

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.276e+04 / 82
p0 155.2 ± 0.1219
220
210
200
190
180
170
160
150
140
130

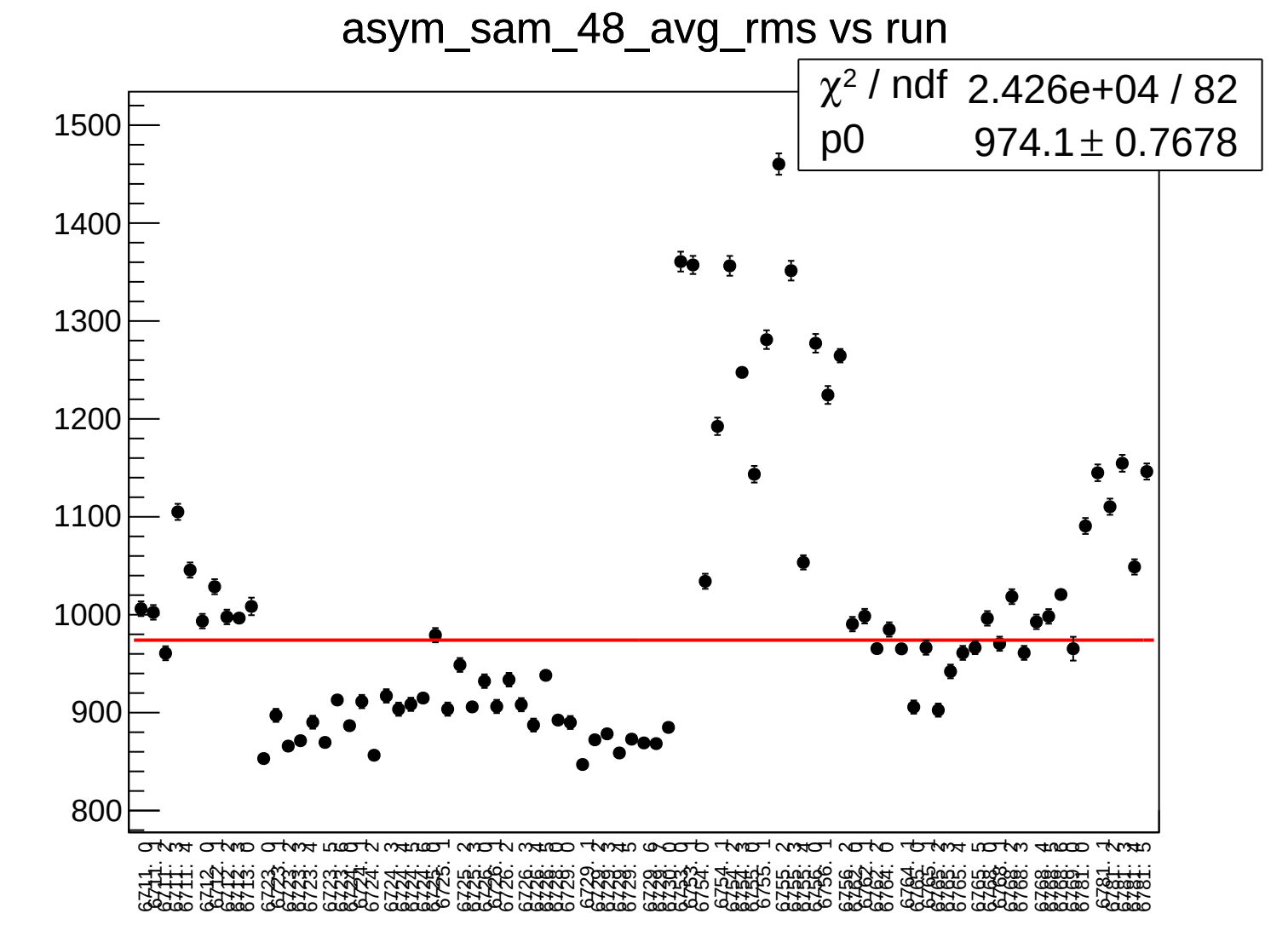

asym_sam_48_avg_correction_mean vs run
χ² / ndf 95.86 / 82
p0 −329.1± 1133
pull
Entries 83
Mean −2.446
Std Dev 49.13

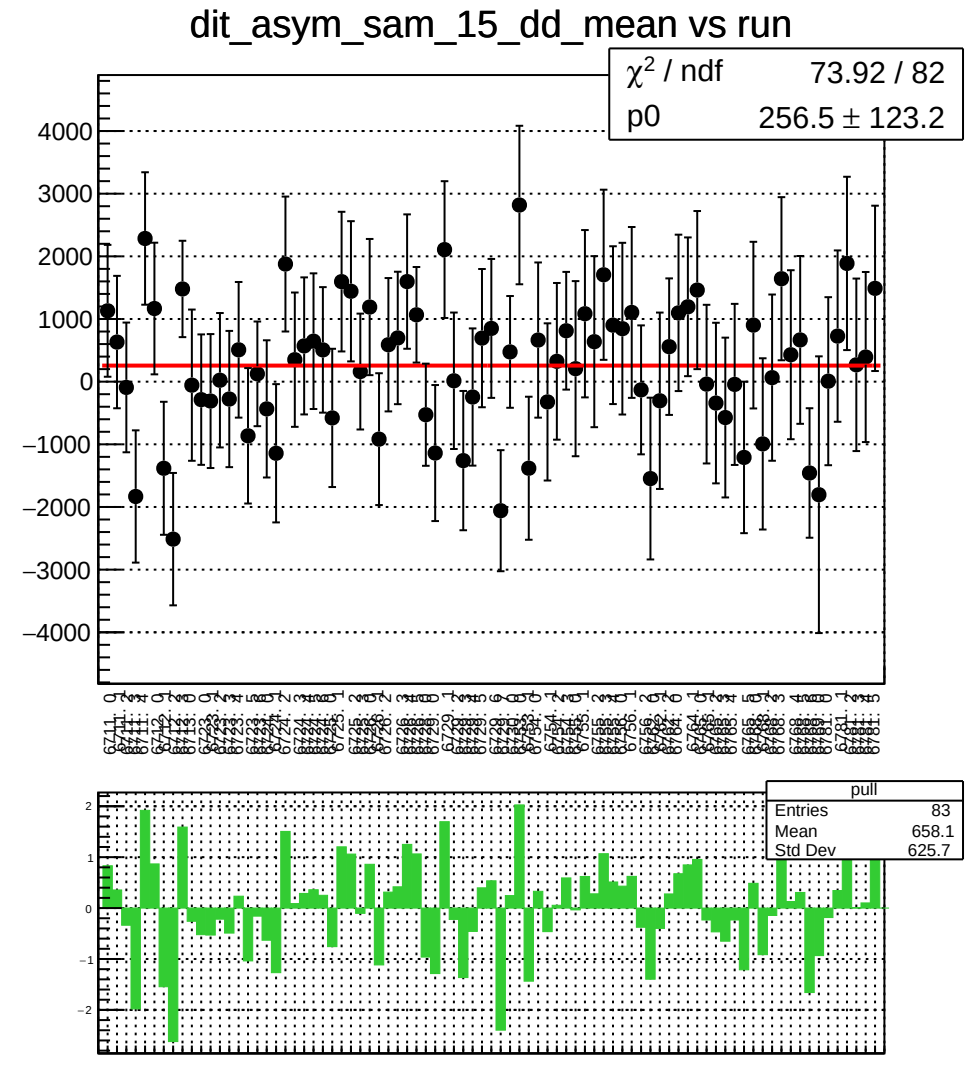

pull1D
Entries 83
Mean 0.01559
Std Dev 1.075

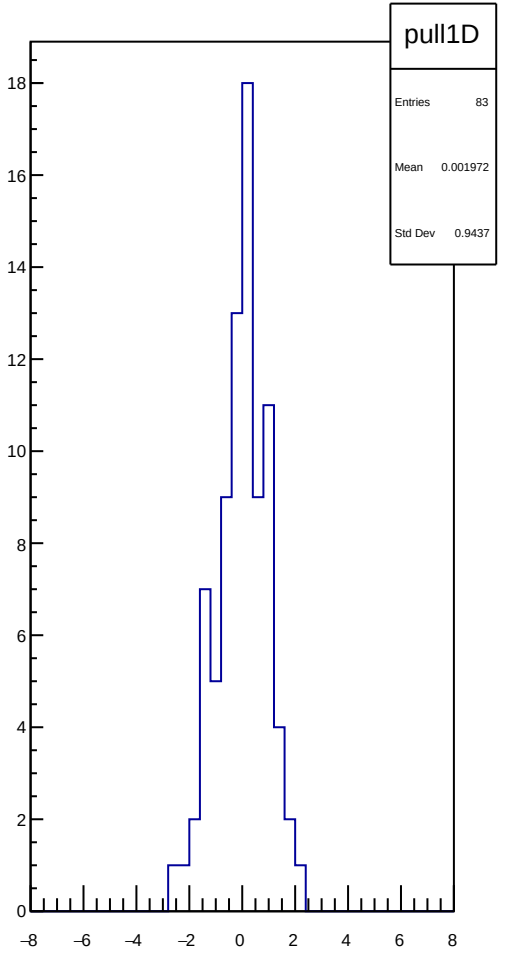

asym_sam_48_avg_correction_rms vs run
χ² / ndf 1.743e+04 / 82
p0 1019 ± 0.8013
1500
1400
1300
1200
1100
1000
900

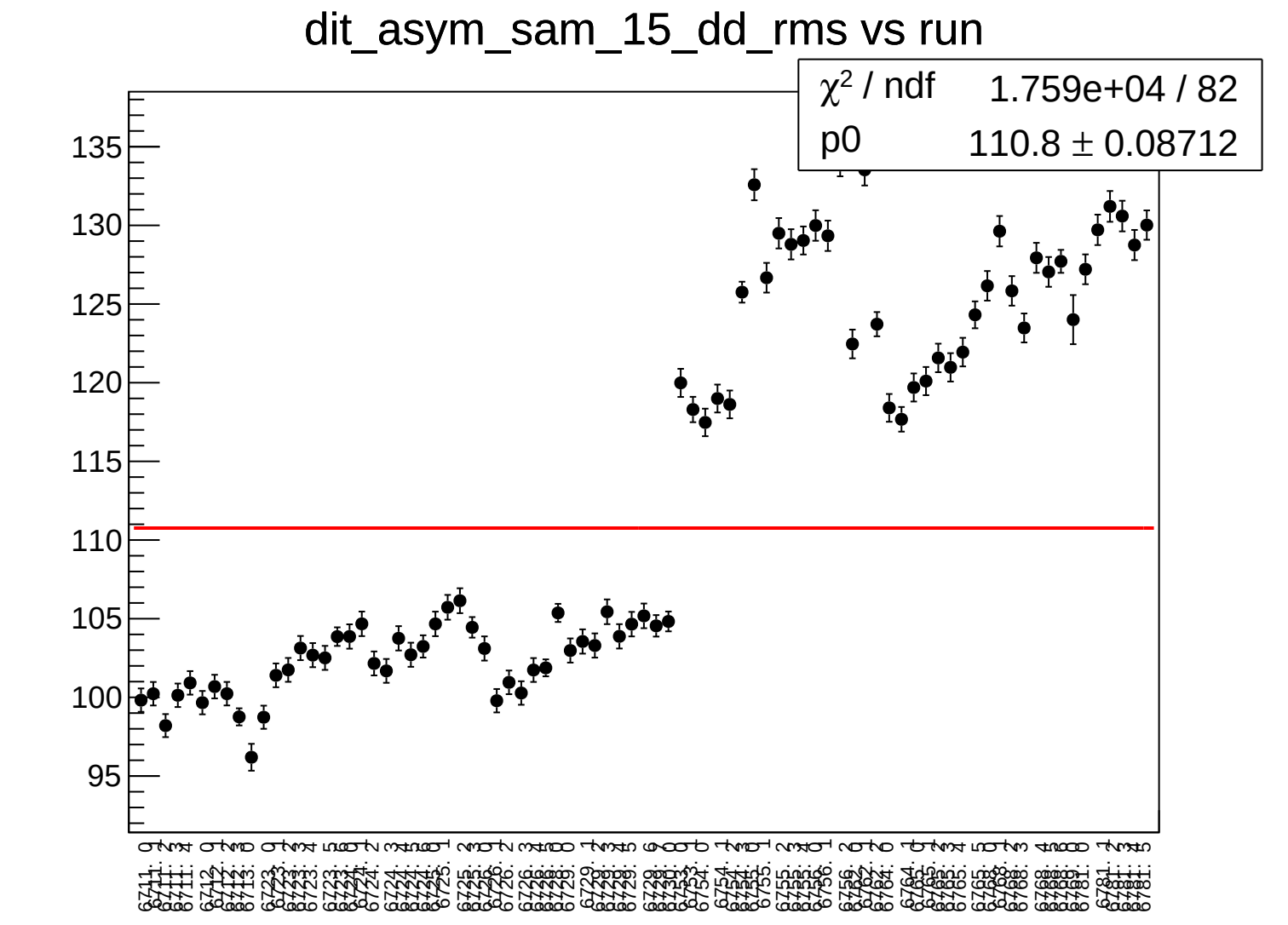

asym_sam_48_avg_mean vs run
χ² / ndf 101.2 / 82
p0 190.1 ± 1086
pull
Entries 83
Mean 5.879
Std Dev 51.32

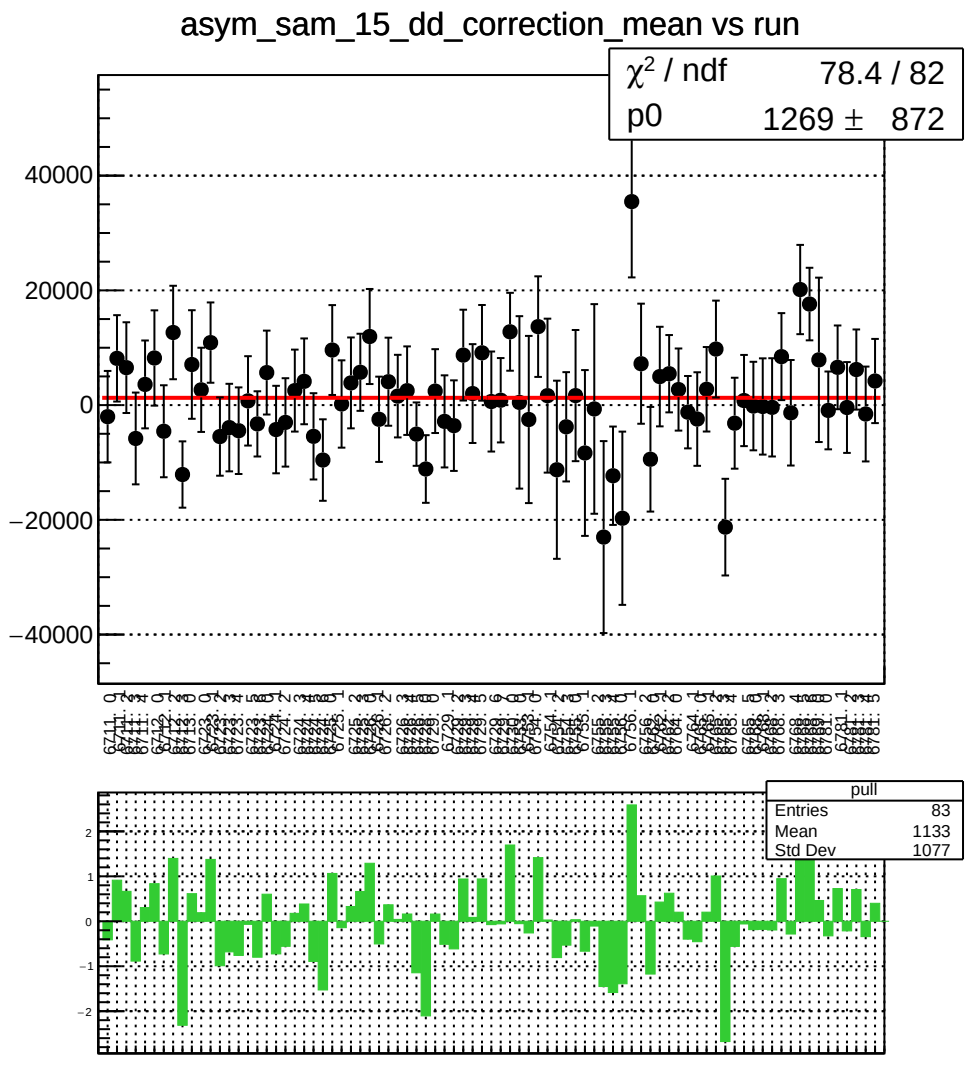

pull1D
Entries 83
Mean −0.01613
Std Dev 1.104

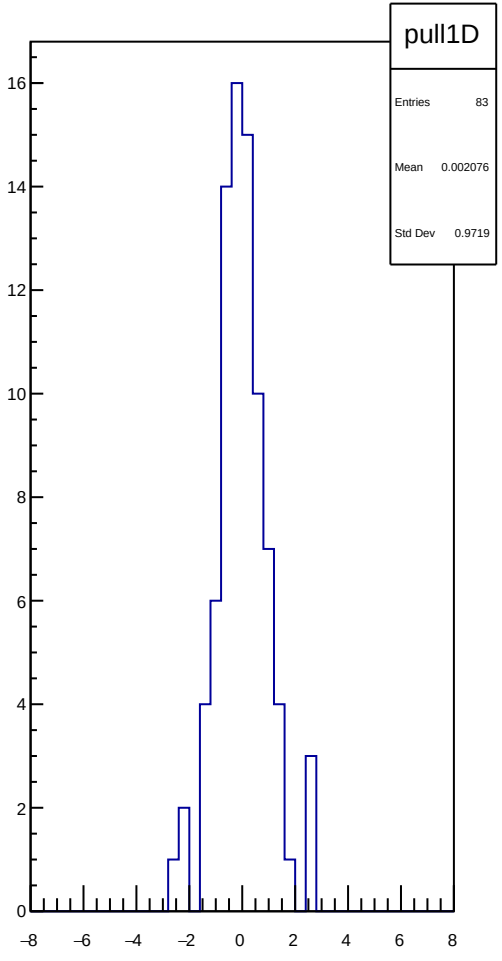

asym_sam_48_avg_rms vs run
χ² / ndf 2.426e+04 / 82
p0 974.1 ± 0.7678
1500
1400
1300
1200
1100
1000
900
800

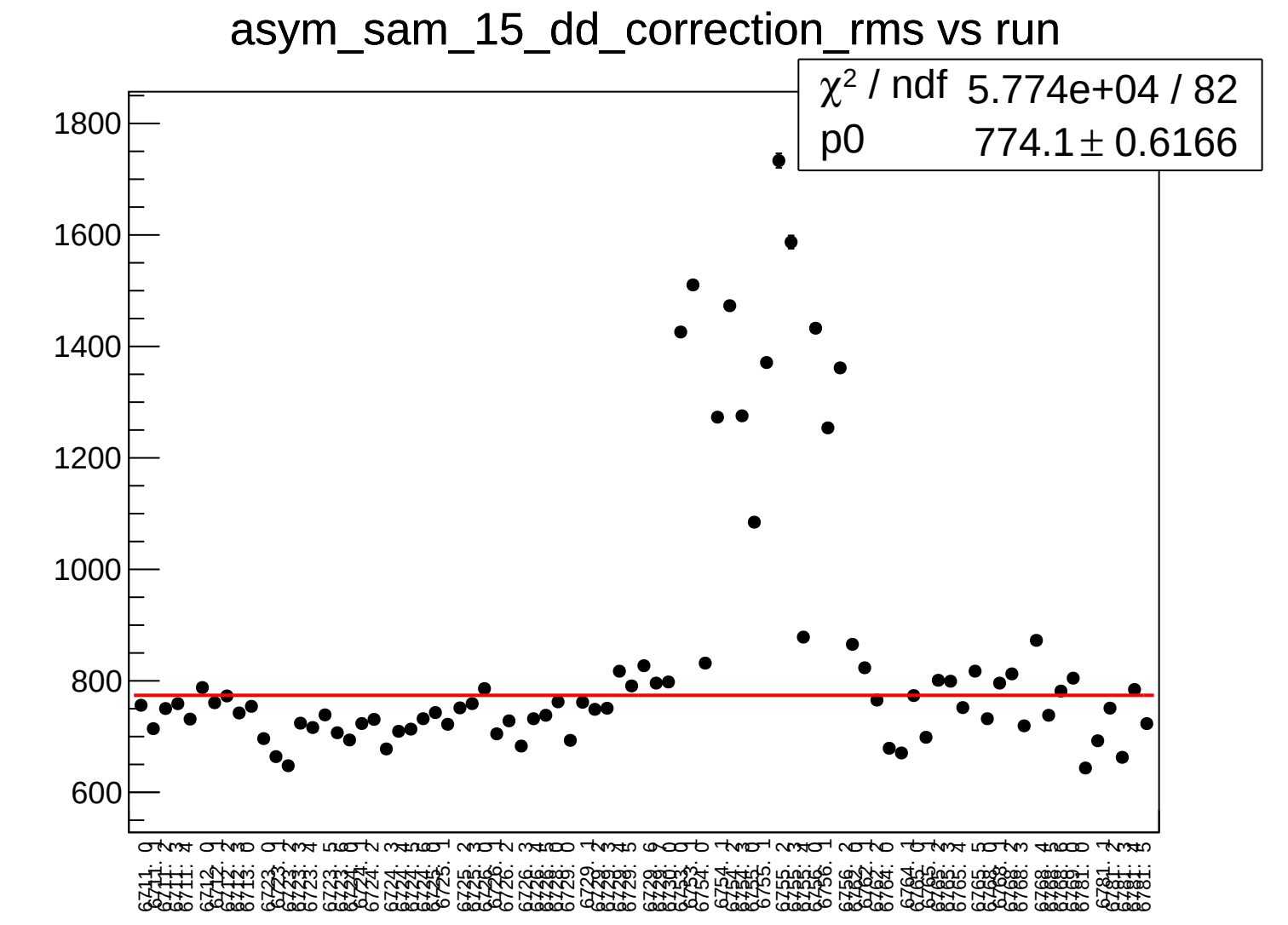

dit_asym_sam_15_dd_mean vs run
χ² / ndf 73.92 / 82
p0 256.5 ± 123.2
pull
Entries 83
Mean 658.1
Std Dev 625.7

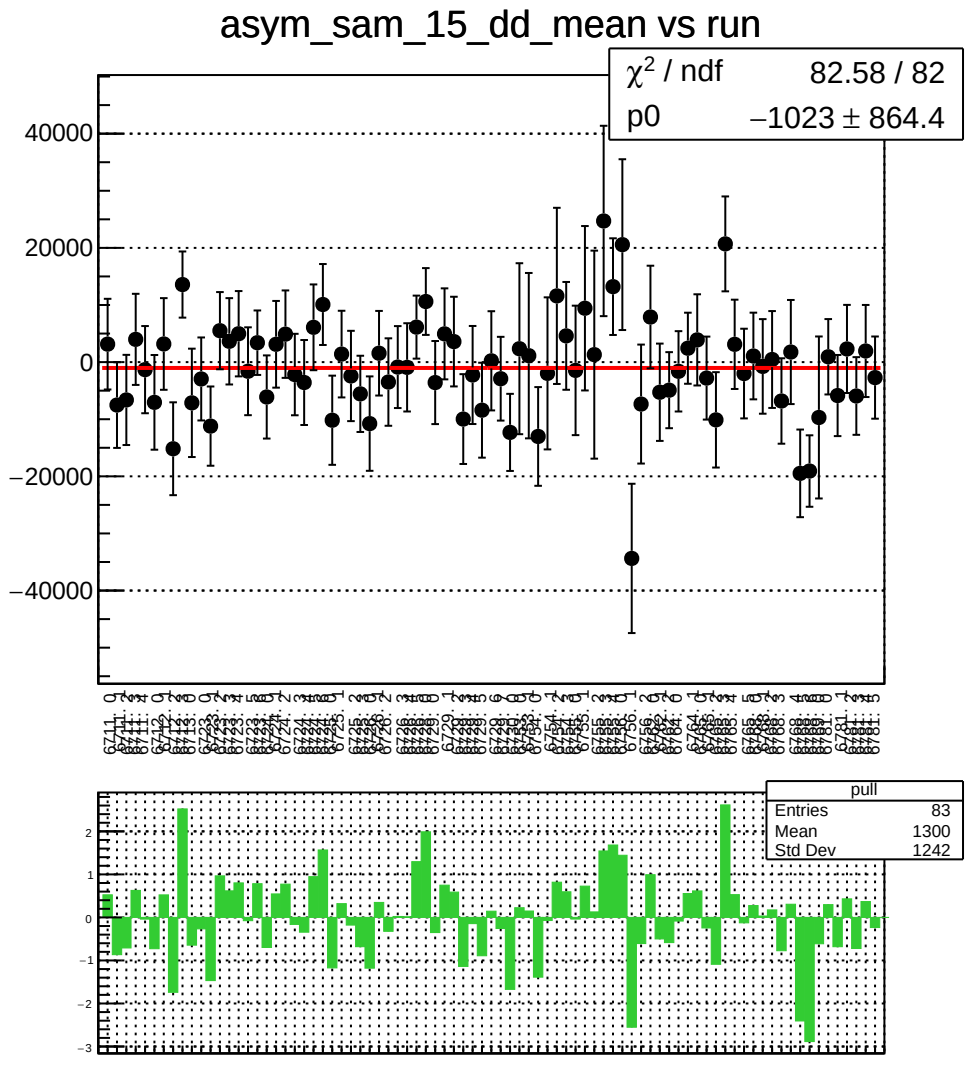

pull1D
Entries 83
Mean 0.001972
Std Dev 0.9437

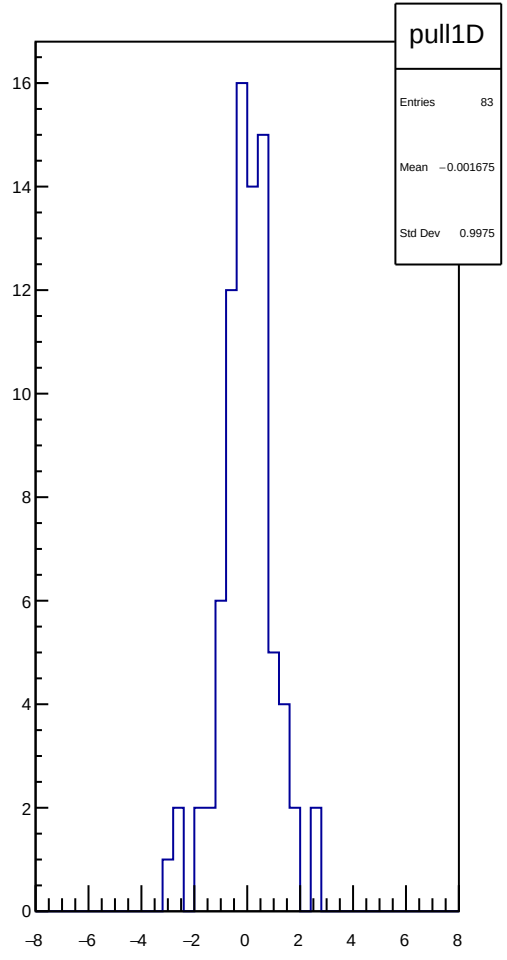

dit_asym_sam_15_dd_rms vs run
χ² / ndf 1.759e+04 / 82
p0 110.8 ± 0.08712
135
130
125
120
115
110
105
100
95

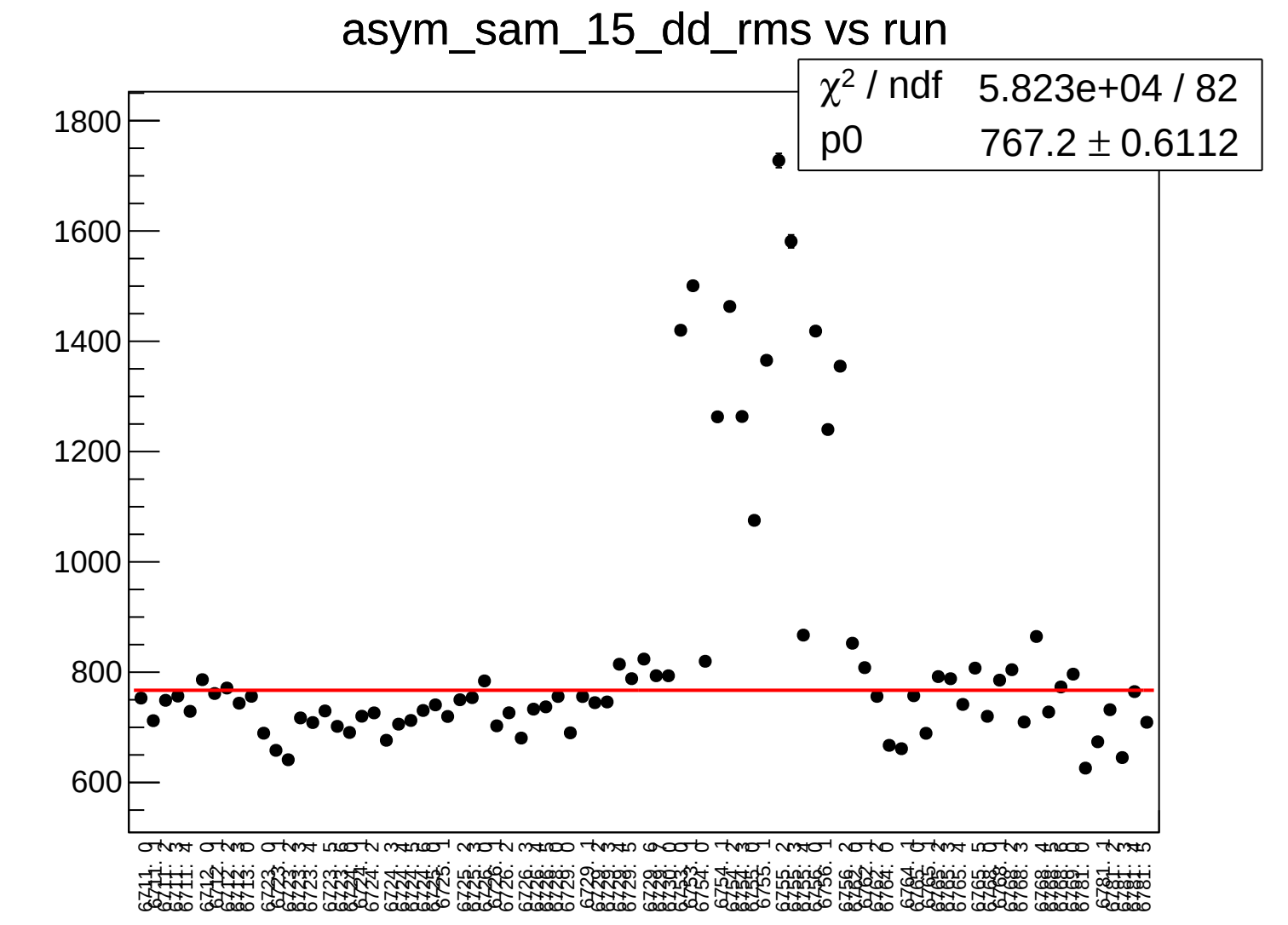

asym_sam_15_dd_correction_mean vs run
χ² / ndf 78.4 / 82
p0 1269 ± 872
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 1133
Std Dev 1077
2
1
0
−1
−2

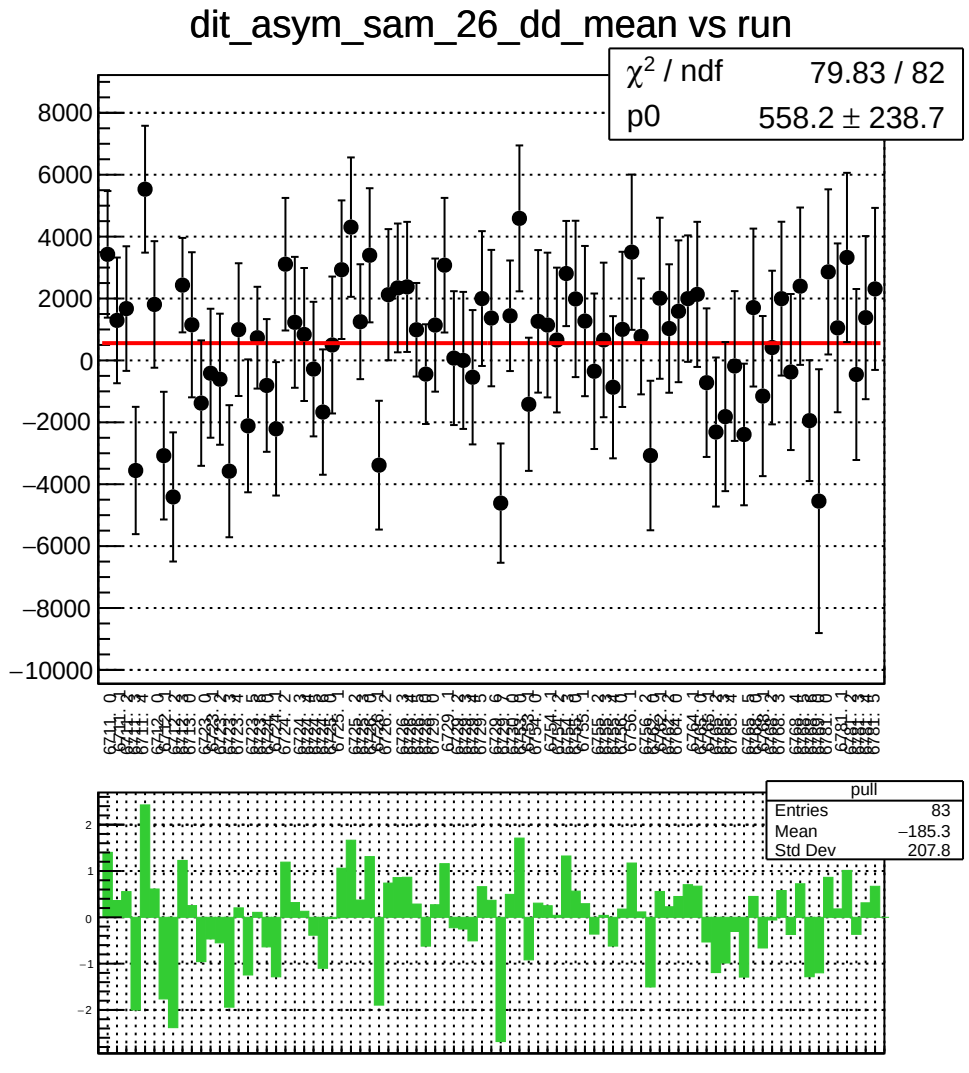

pull1D
Entries 83
Mean 0.002076
Std Dev 0.9719
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

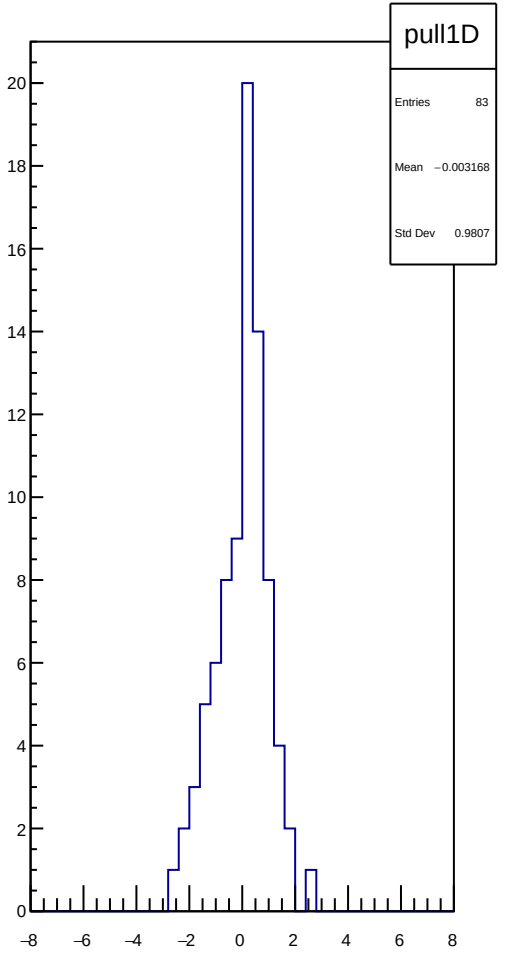

asym_sam_15_dd_correction_rms vs run
χ² / ndf 5.774e+04 / 82
p0 774.1 ± 0.6166
1800
1600
1400
1200
1000
800
600

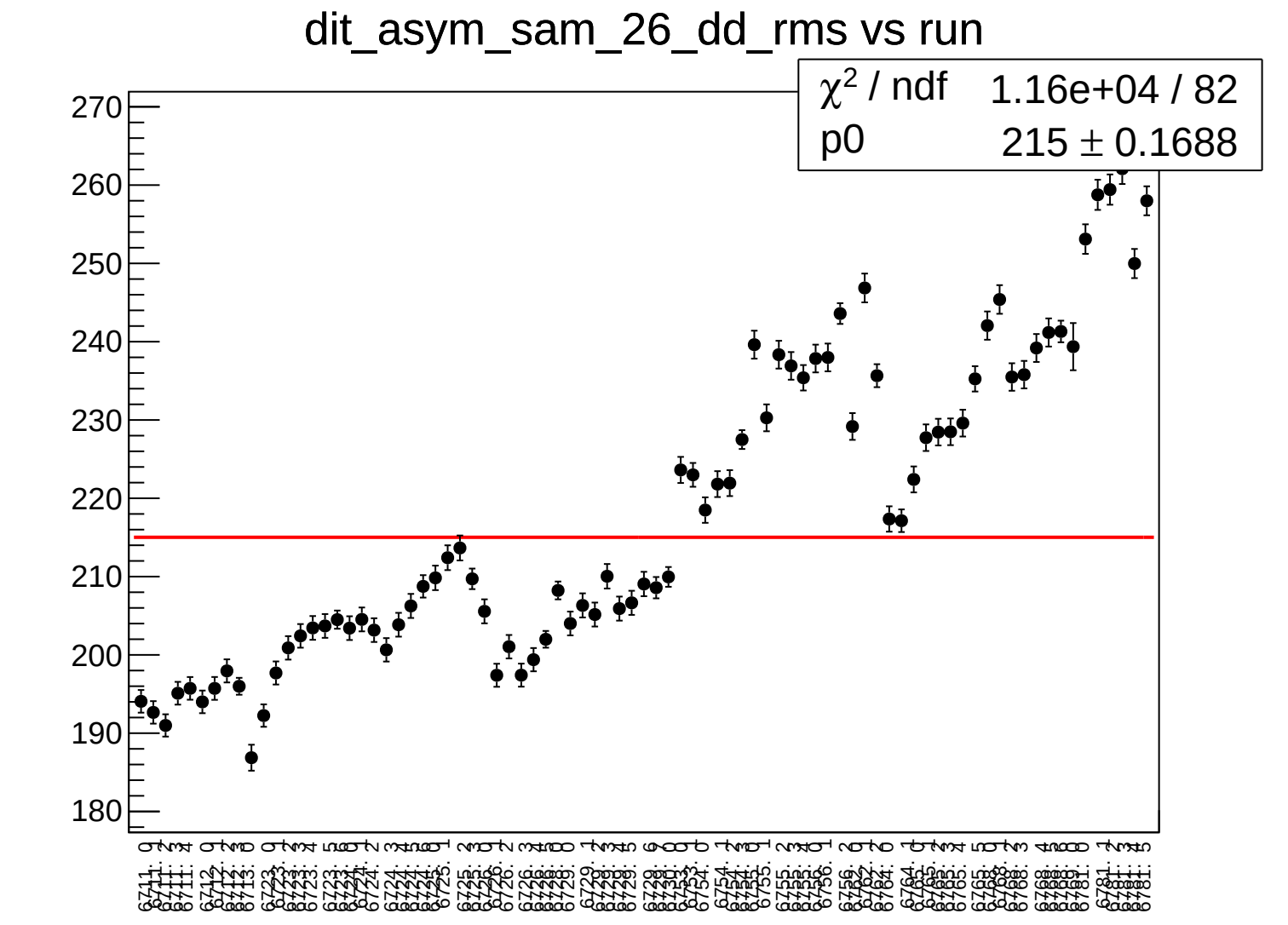

asym_sam_15_dd_mean vs run
χ^2 / ndf 82.58 / 82
p0 −1023 ± 864.4
40000
20000
0
−20000
−40000
pull
Entries 83
Mean 1300
Std Dev 1242
2
1
0
−1
−2
−3

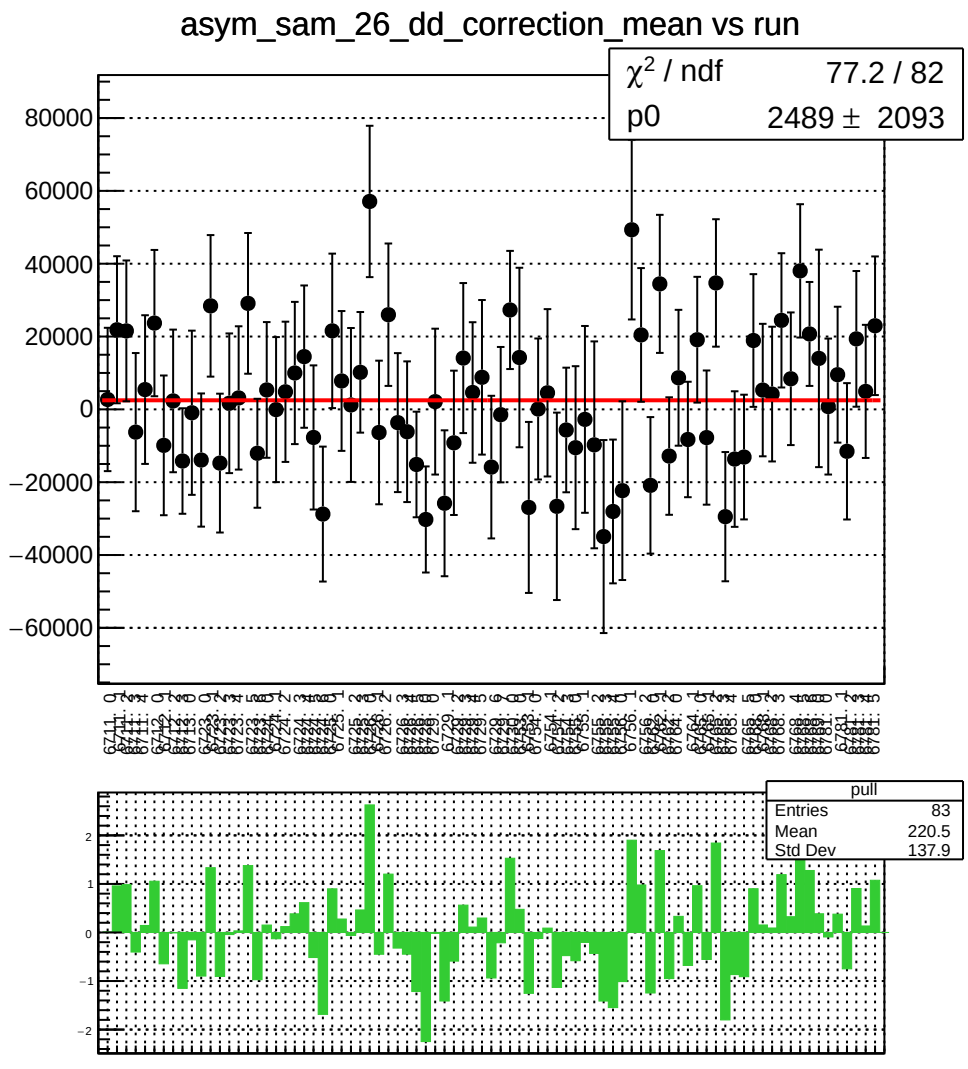

pull1D
Entries 83
Mean −0.001675
Std Dev 0.9975
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

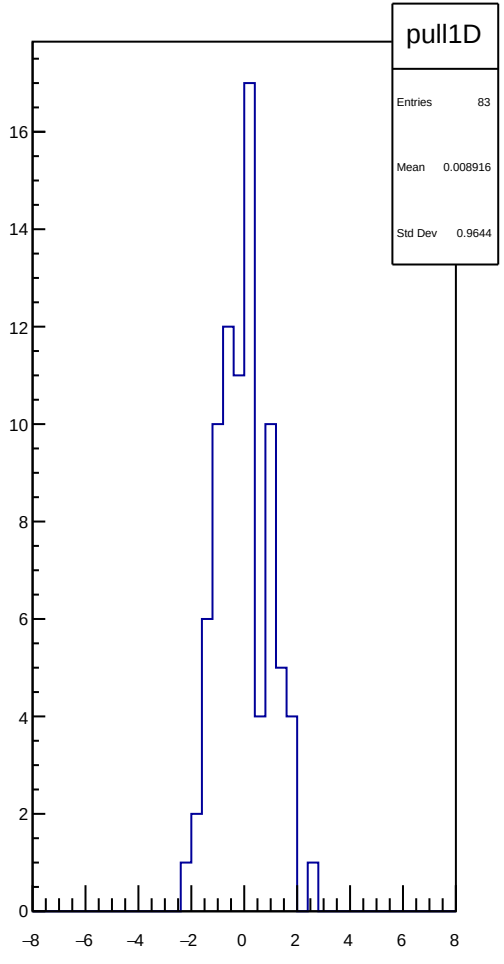

asym_sam_15_dd_rms vs run
χ^2 / ndf 5.823e+04 / 82
p0 767.2 ± 0.6112
1800
1600
1400
1200
1000
800
600

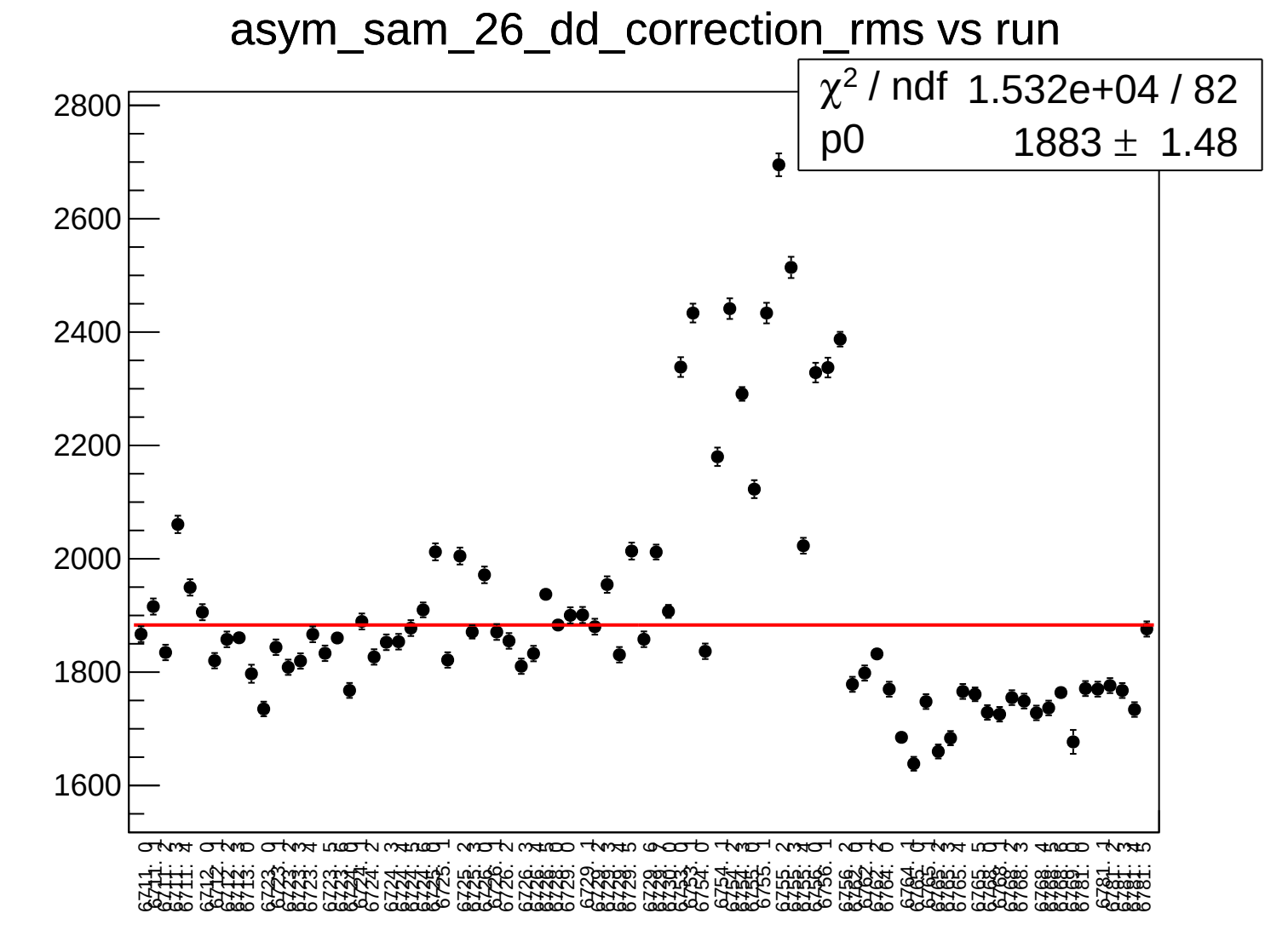

dit_asym_sam_26_dd_mean vs run
χ² / ndf 79.83 / 82
p0 558.2 ± 238.7
pull
Entries 83
Mean −185.3
Std Dev 207.8

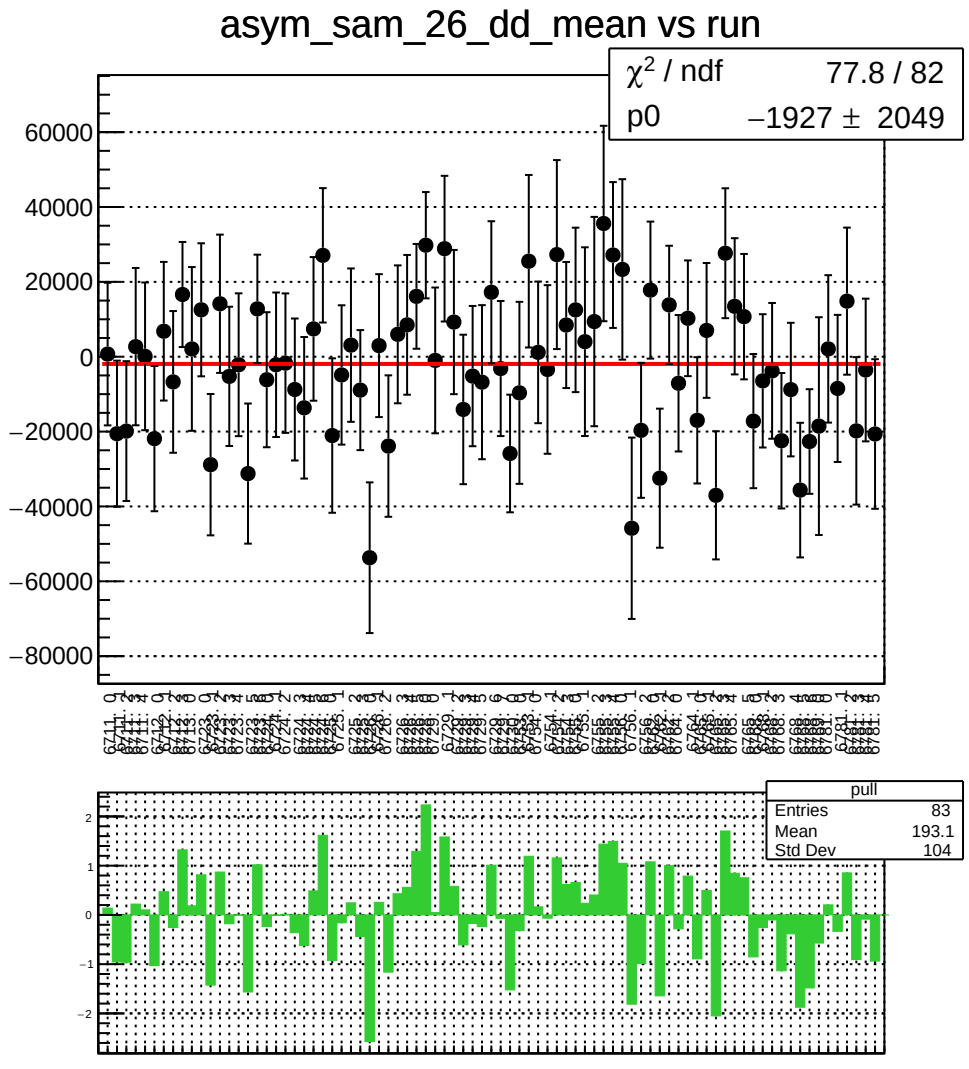

pull1D
Entries 83
Mean −0.003168
Std Dev 0.9807

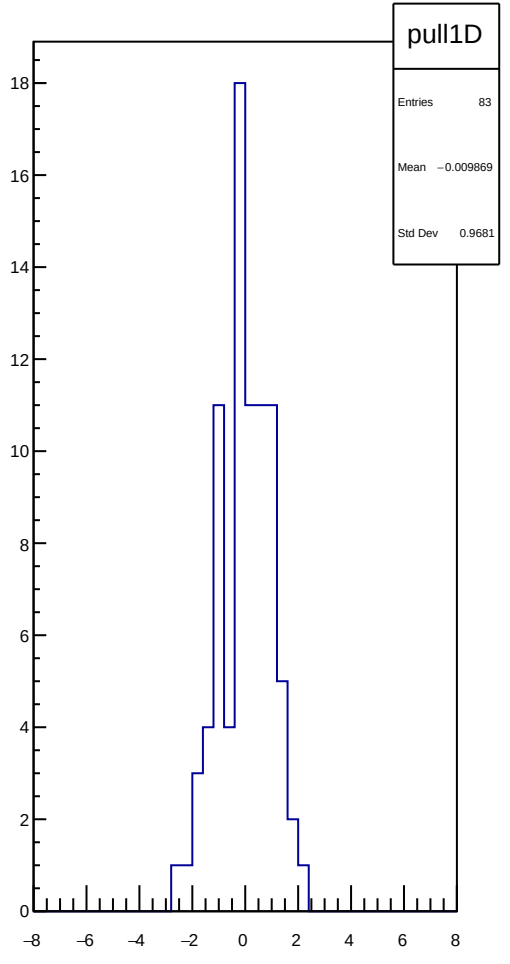

dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 1.16e+04 / 82
p0 215 ± 0.1688
270
260
250
240
230
220
210
200
190
180

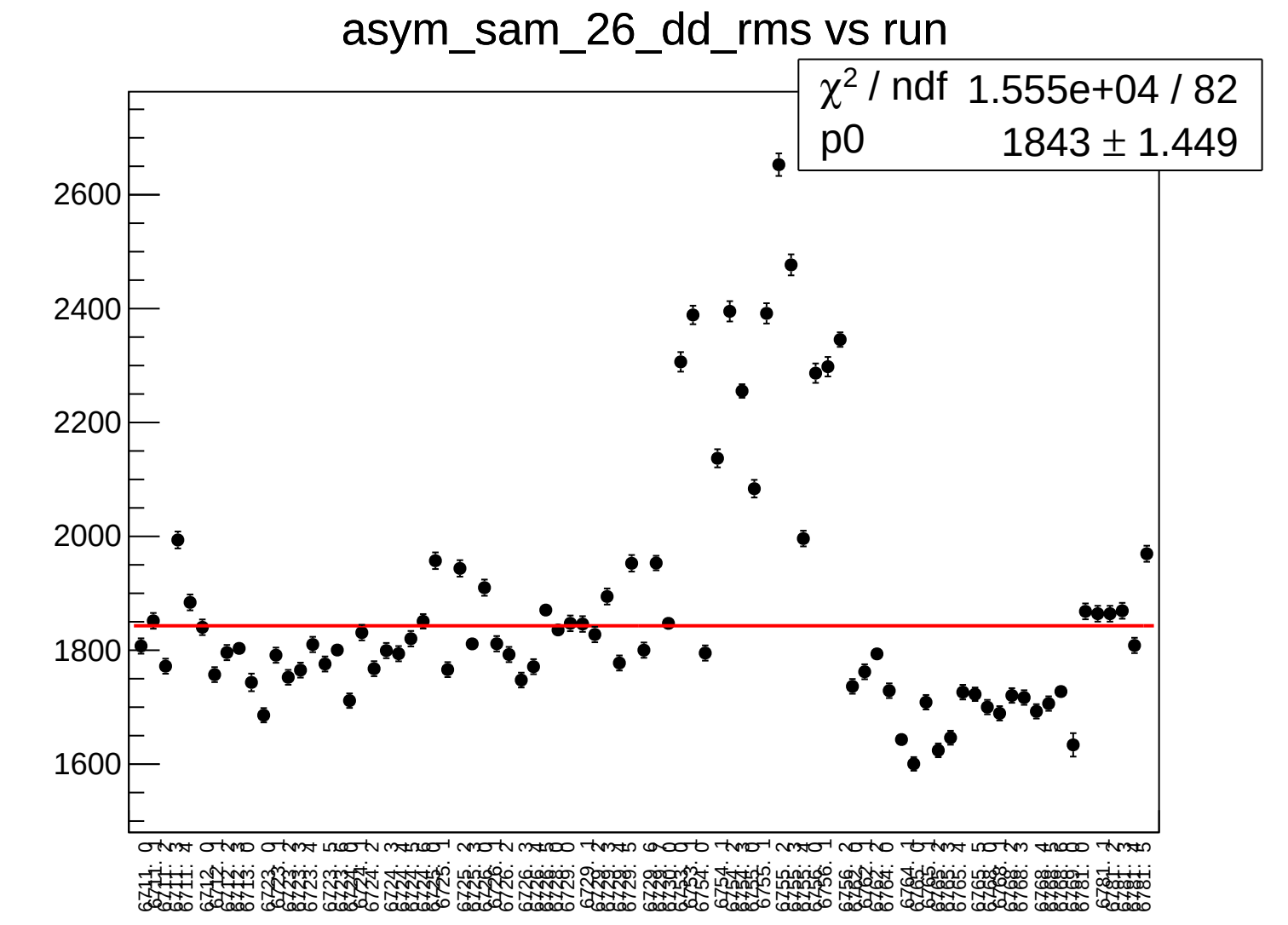

asym_sam_26_dd_correction_mean vs run
χ² / ndf 77.2 / 82
p0 2489 ± 2093
pull
Entries 83
Mean 220.5
Std Dev 137.9

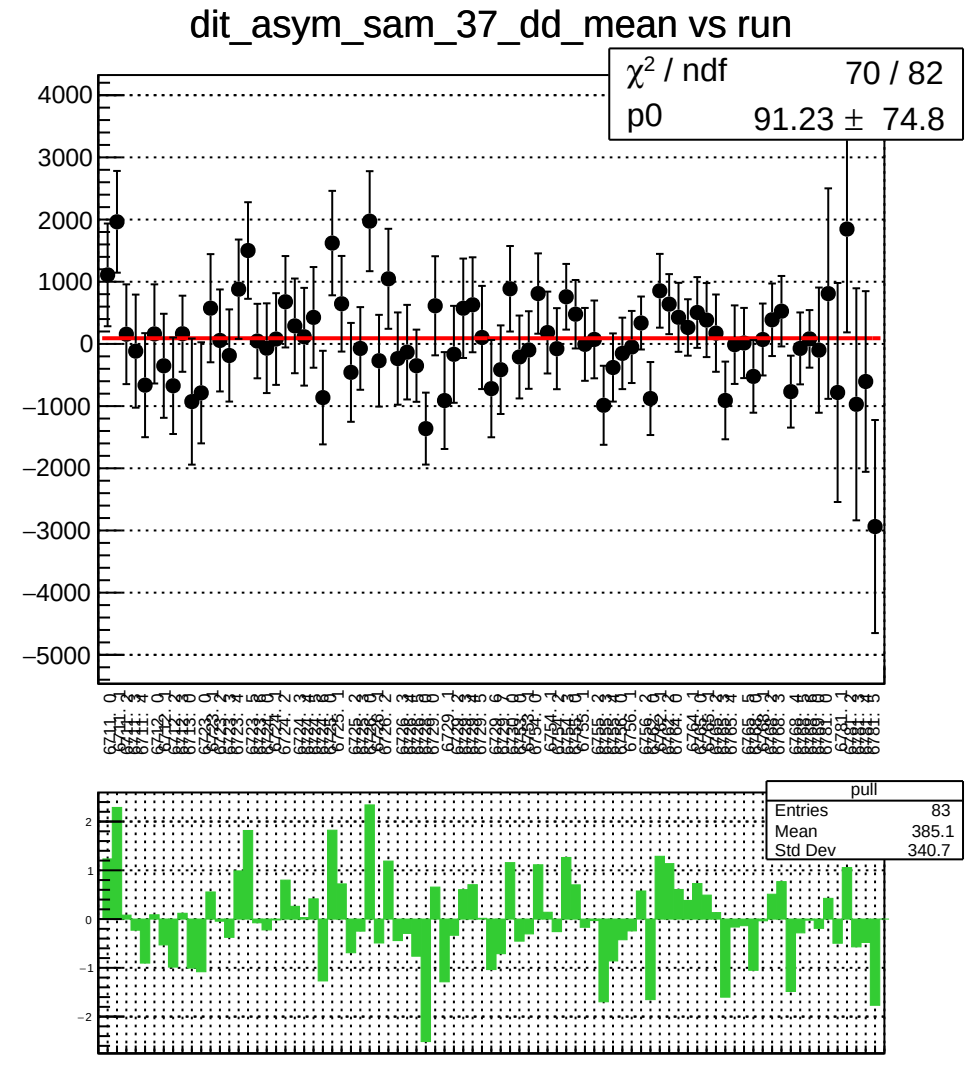

pull1D
Entries 83
Mean 0.008916
Std Dev 0.9644

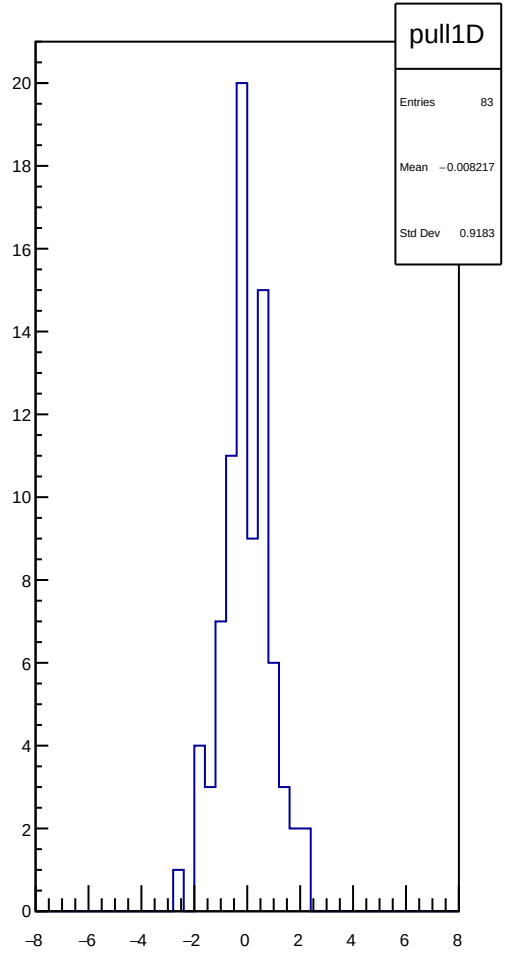

asym_sam_26_dd_correction_rms vs run
χ² / ndf 1.532e+04 / 82
p0 1883 ± 1.48
2800
2600
2400
2200
2000
1800
1600

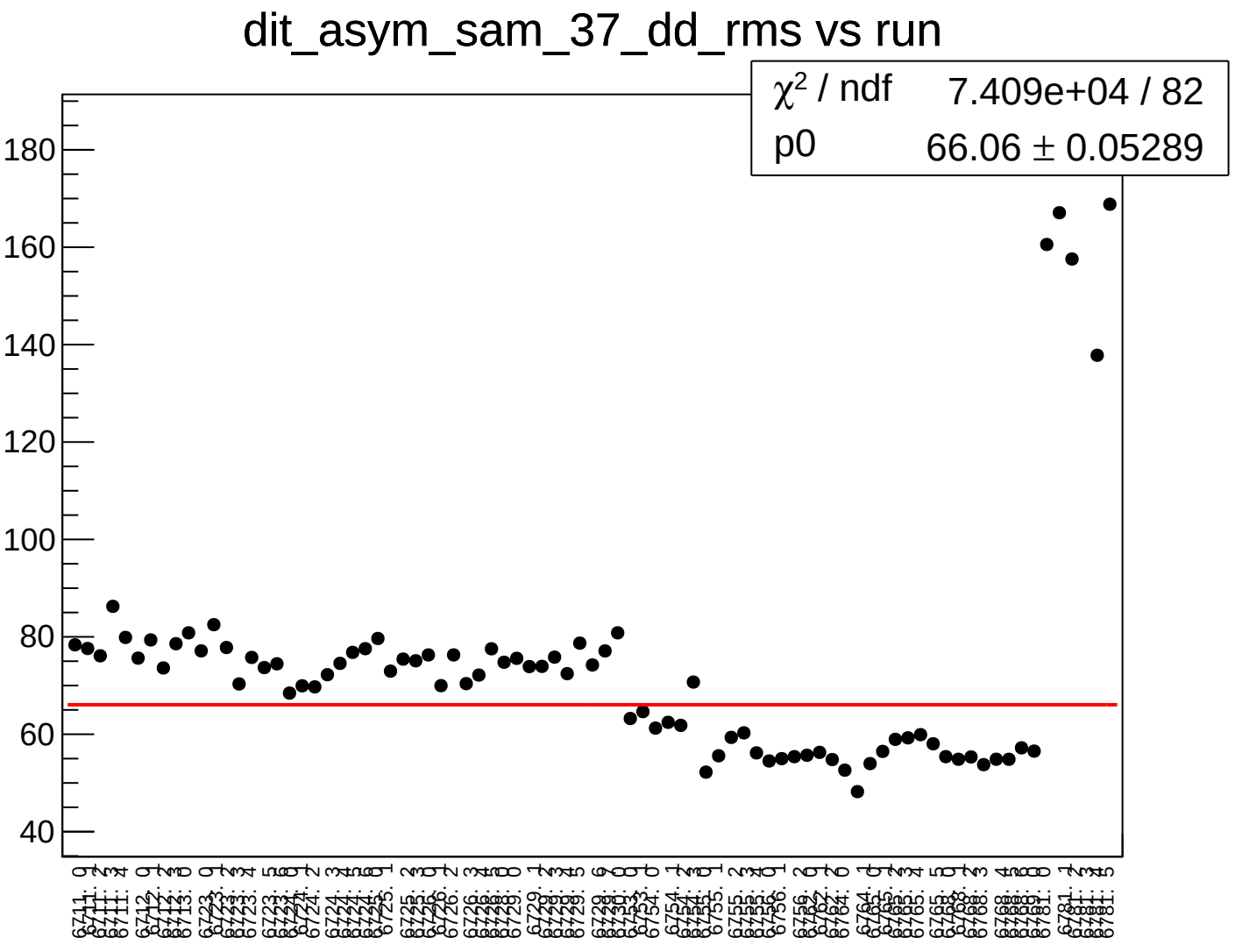

asym_sam_26_dd_mean vs run
χ² / ndf 77.8 / 82
p0 −1927 ± 2049
pull
Entries 83
Mean 193.1
Std Dev 104

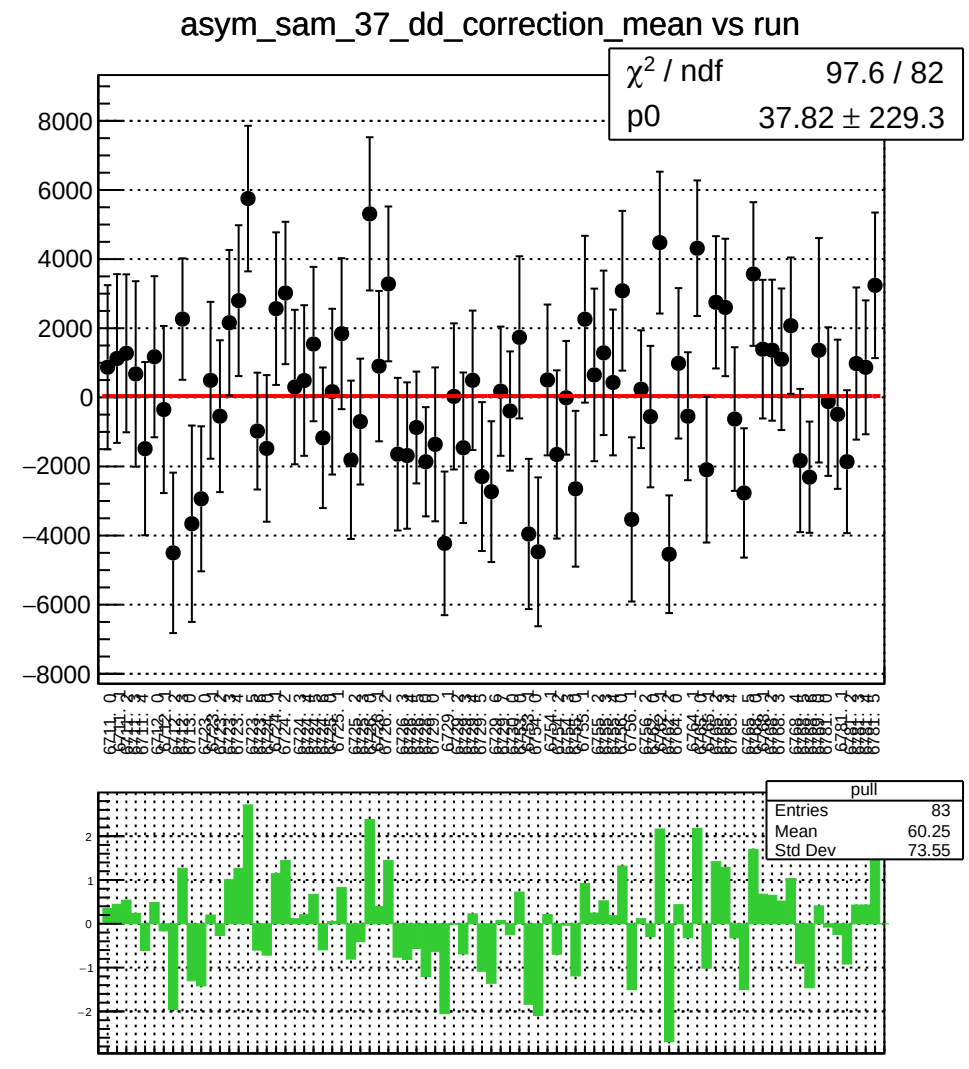

pull1D
Entries 83
Mean −0.009869
Std Dev 0.9681

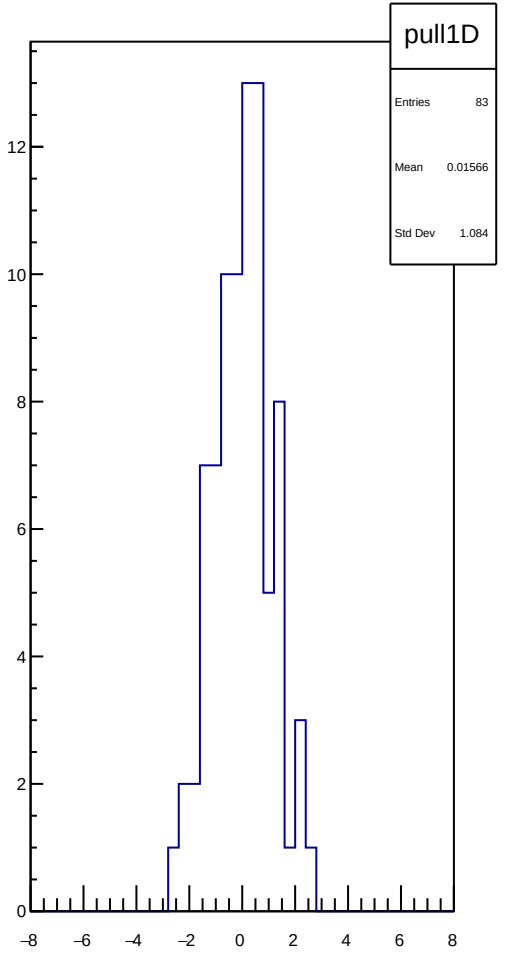

asym_sam_26_dd_rms vs run
χ² / ndf 1.555e+04 / 82
p0 1843 ± 1.449
2600
2400
2200
2000
1800
1600

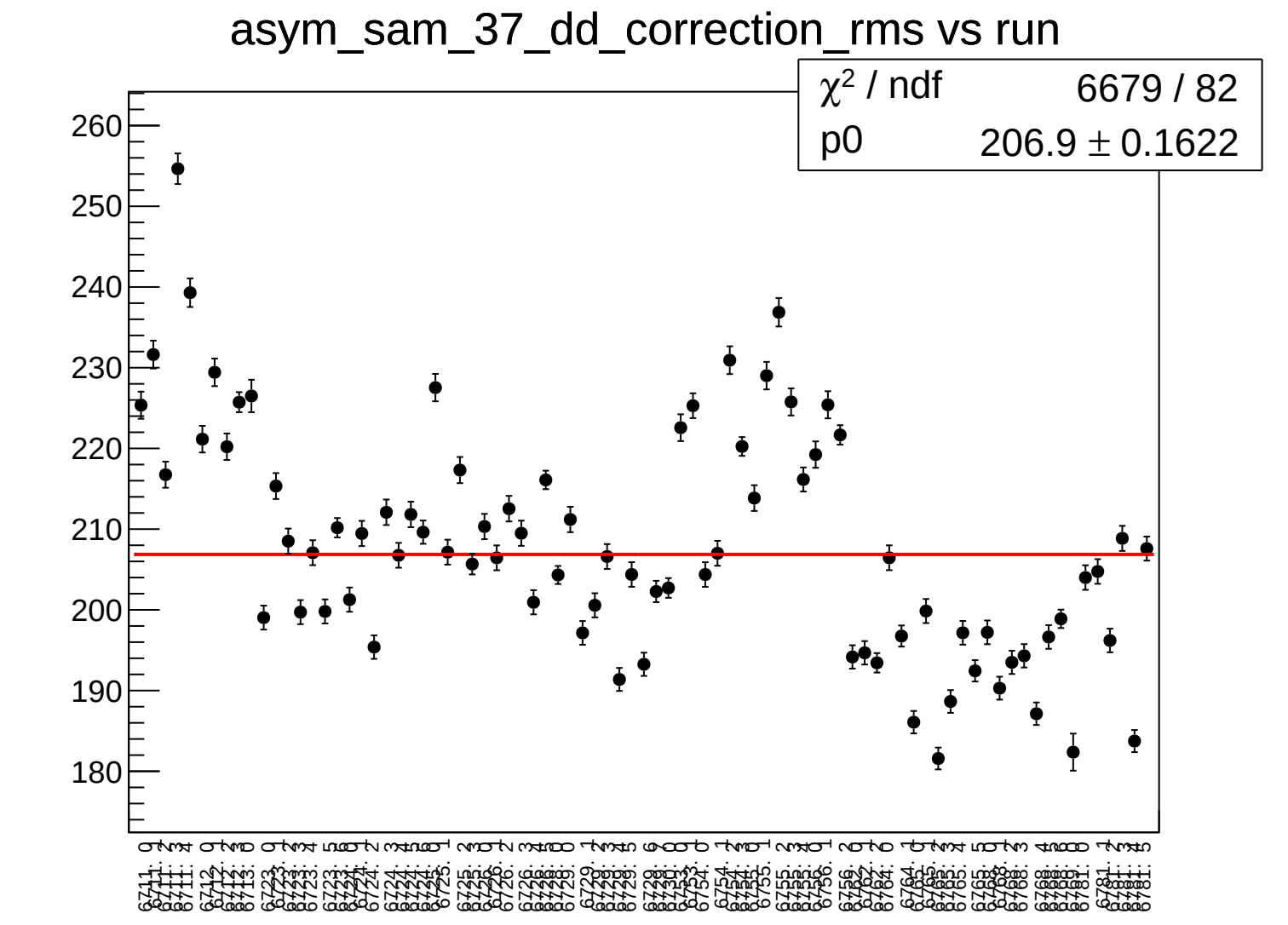

dit_asym_sam_37_dd_mean vs run
χ² / ndf 70 / 82
p0 91.23 ± 74.8
pull
Entries 83
Mean 385.1
Std Dev 340.7

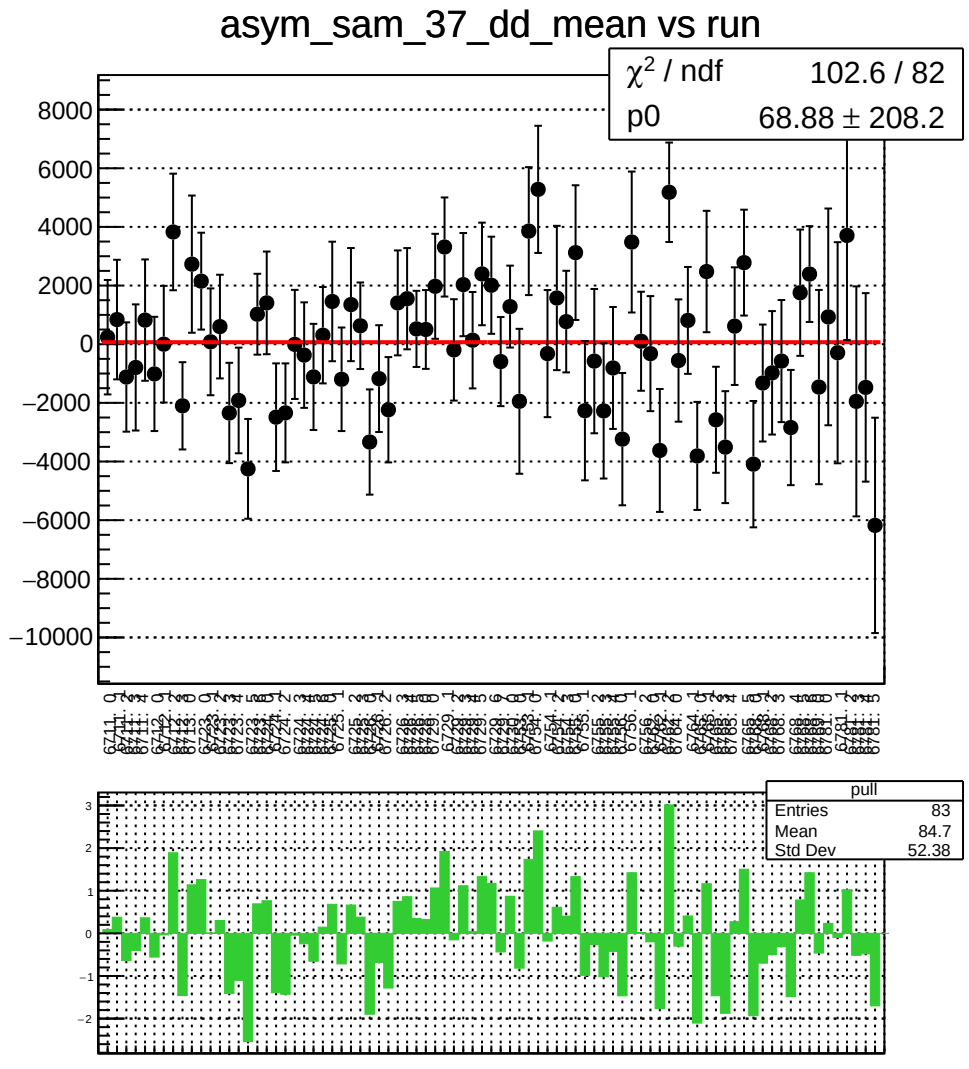

pull1D
Entries 83
Mean −0.008217
Std Dev 0.9183

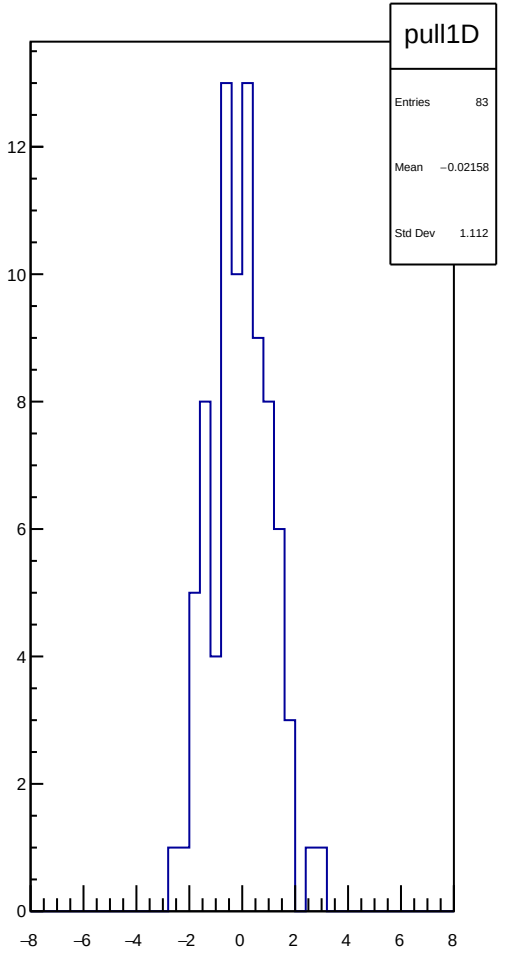

dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 7.409e+04 / 82
p0 66.06 ± 0.05289
180
160
140
120
100
80
60
40

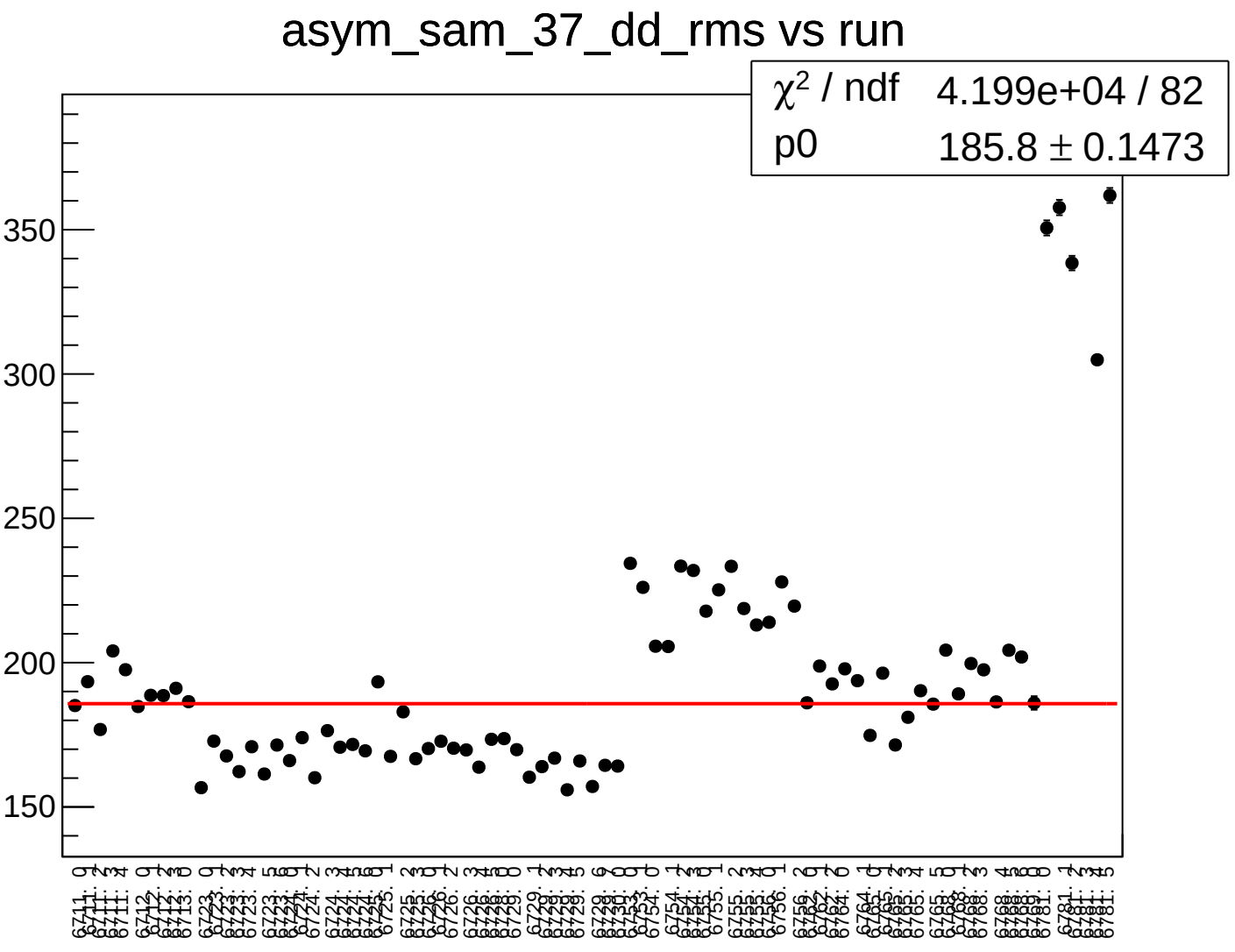

asym_sam_37_dd_correction_mean vs run
χ² / ndf 97.6 / 82
p0 37.82 ± 229.3
pull
Entries 83
Mean 60.25
Std Dev 73.55

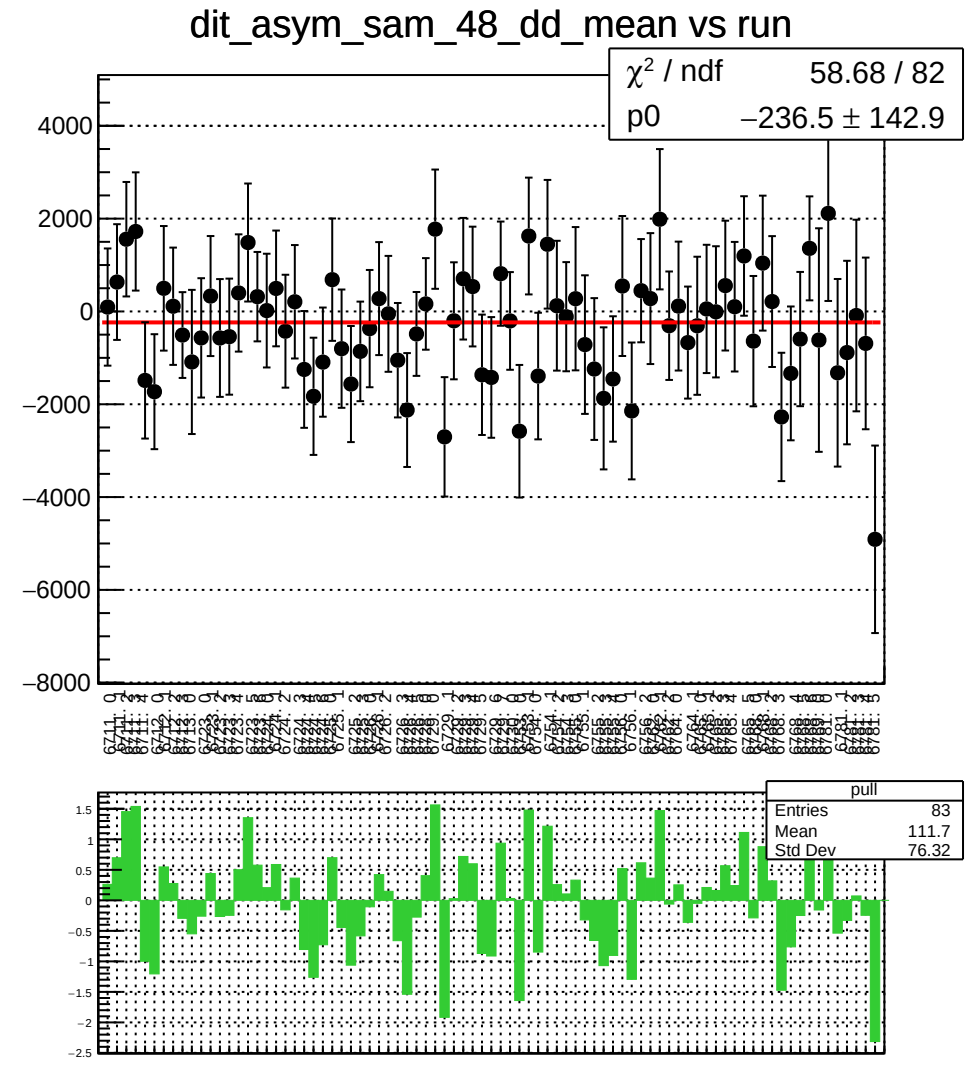

pull1D
Entries 83
Mean 0.01566
Std Dev 1.084

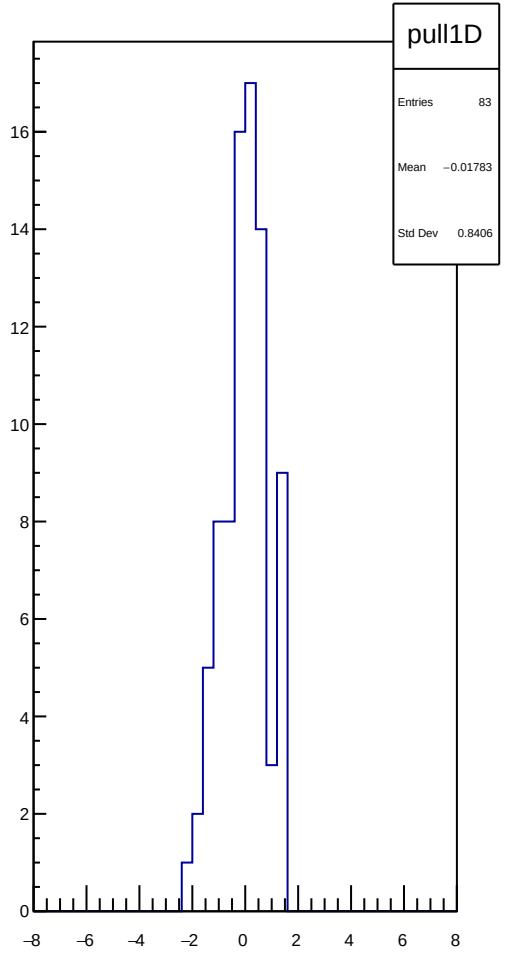

asym_sam_37_dd_correction_rms vs run
χ² / ndf 6679 / 82
p0 206.9 ± 0.1622
260
250
240
230
220
210
200
190
180

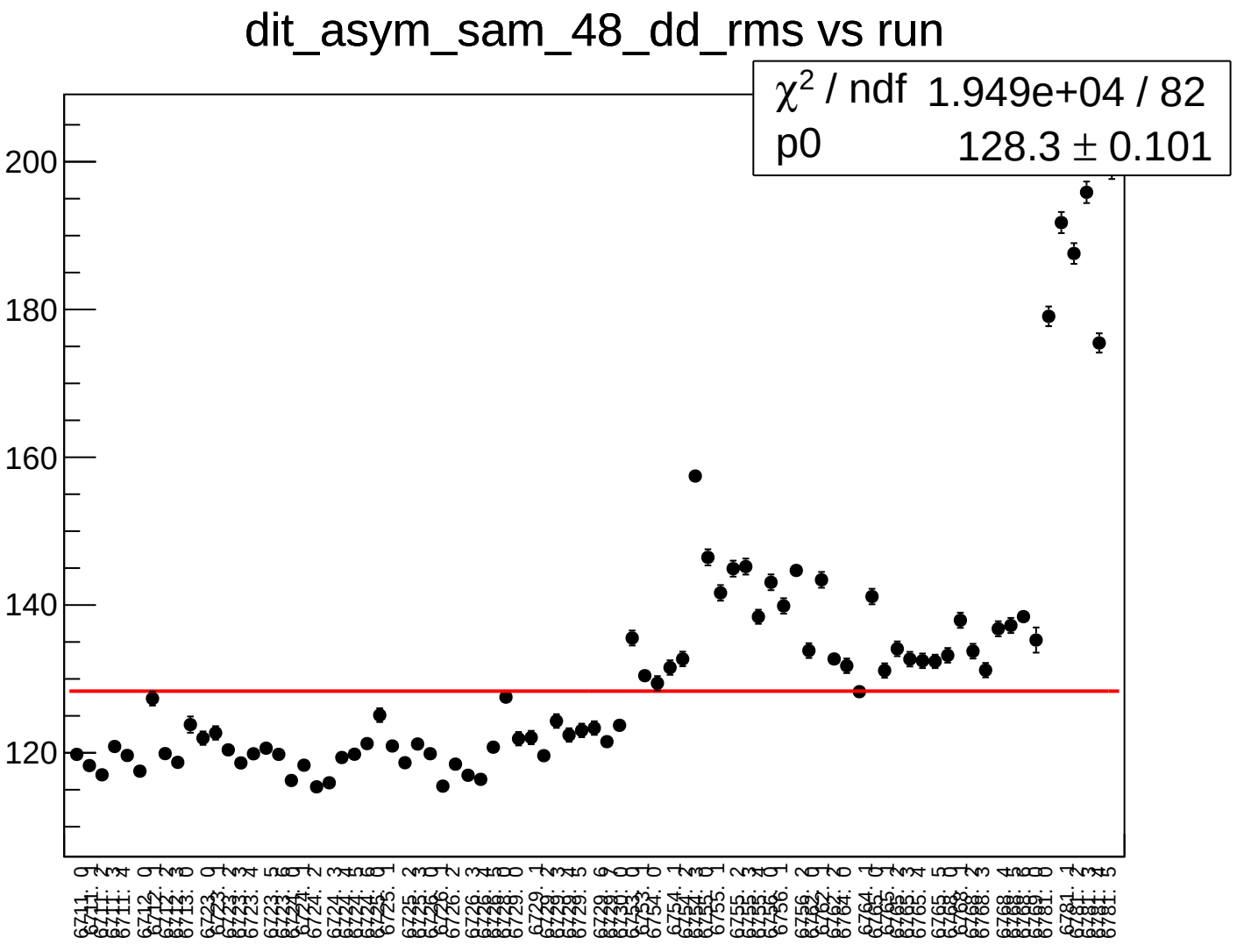

asym_sam_37_dd_mean vs run
χ² / ndf 102.6 / 82
p0 68.88 ± 208.2
pull
Entries 83
Mean 84.7
Std Dev 52.38

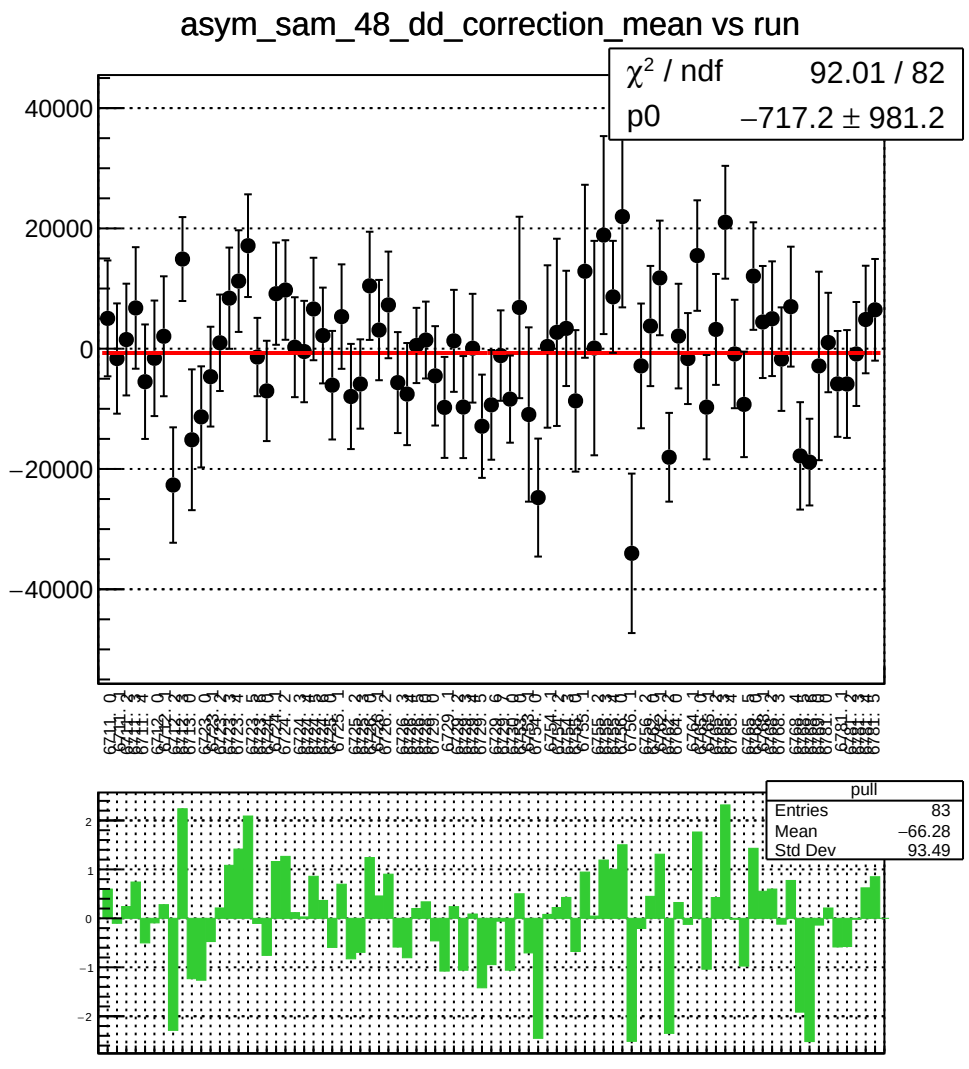

pull1D
Entries 83
Mean −0.02158
Std Dev 1.112

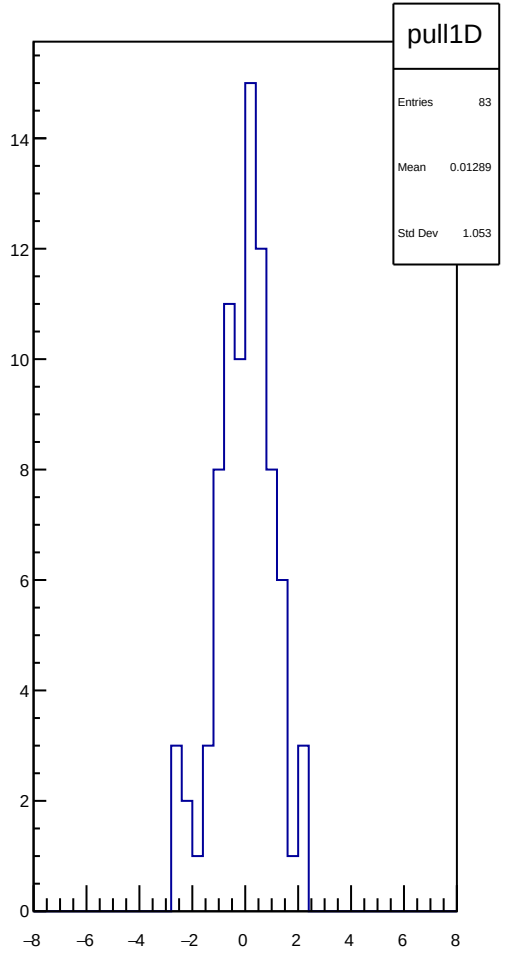

asym_sam_37_dd_rms vs run
χ² / ndf 4.199e+04 / 82
p0 185.8 ± 0.1473
350
300
250
200
150

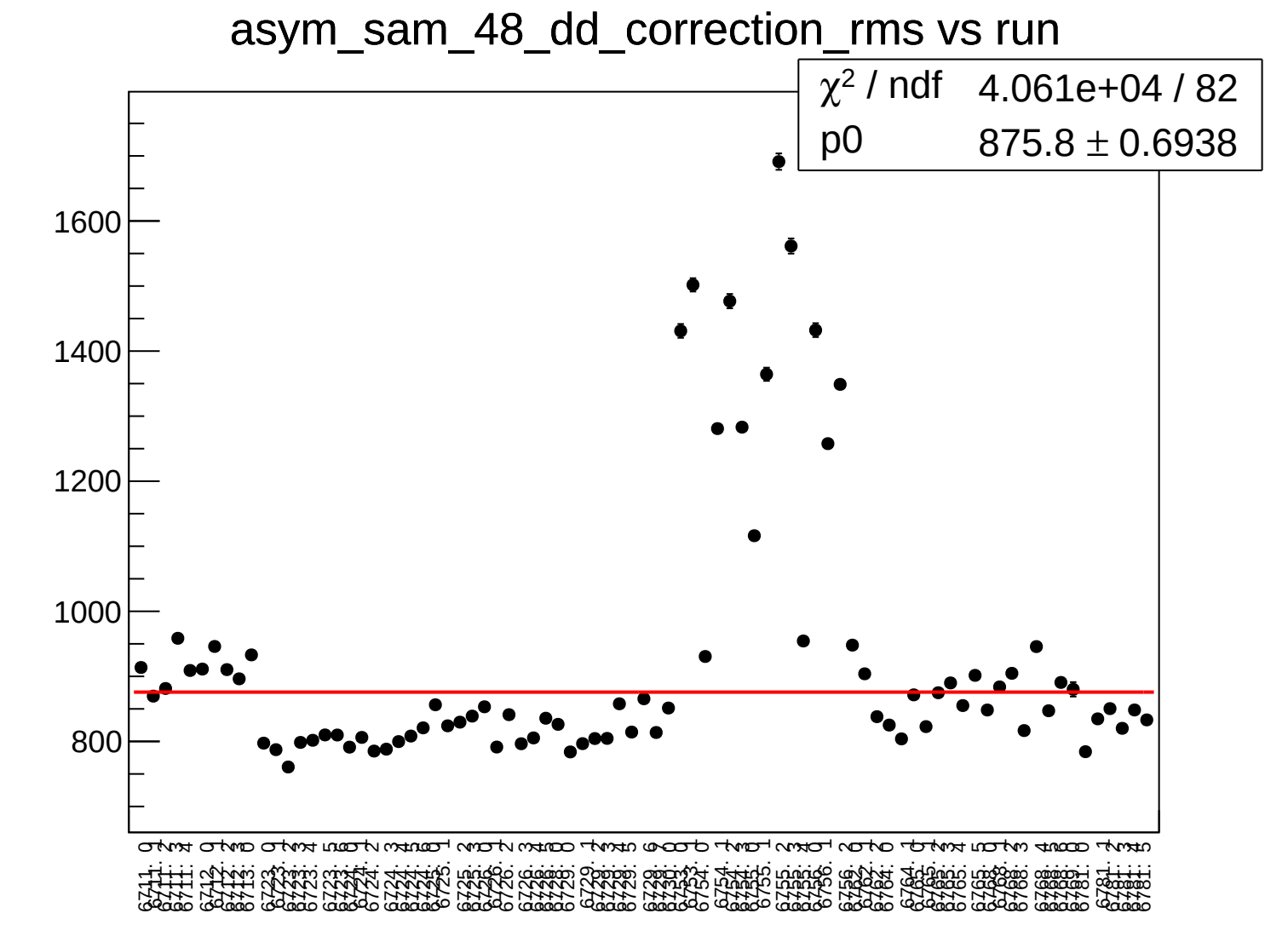

dit_asym_sam_48_dd_mean vs run
χ² / ndf 58.68 / 82
p0 −236.5 ± 142.9
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 83
Mean 111.7
Std Dev 76.32
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

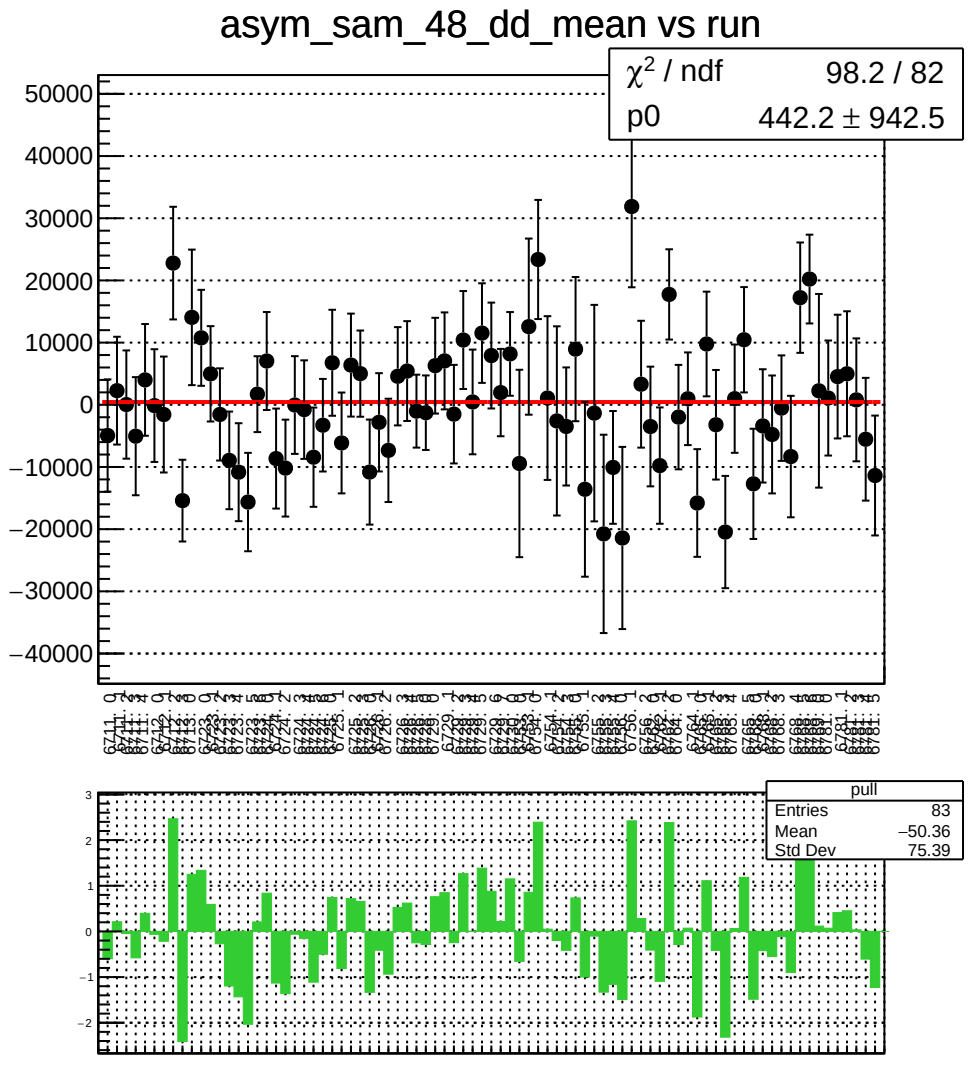

pull1D
Entries 83
Mean −0.01783
Std Dev 0.8406
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

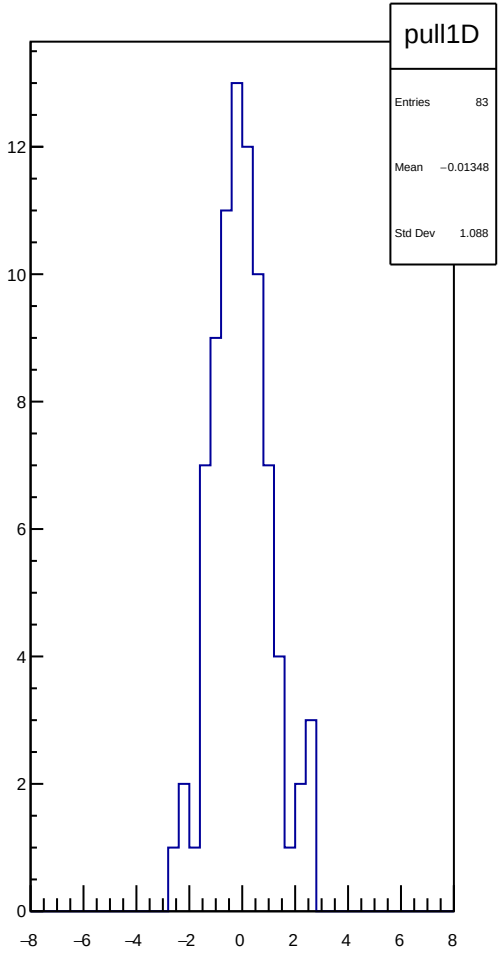

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.949e+04 / 82
p0 128.3 ± 0.101
200
180
160
140
120

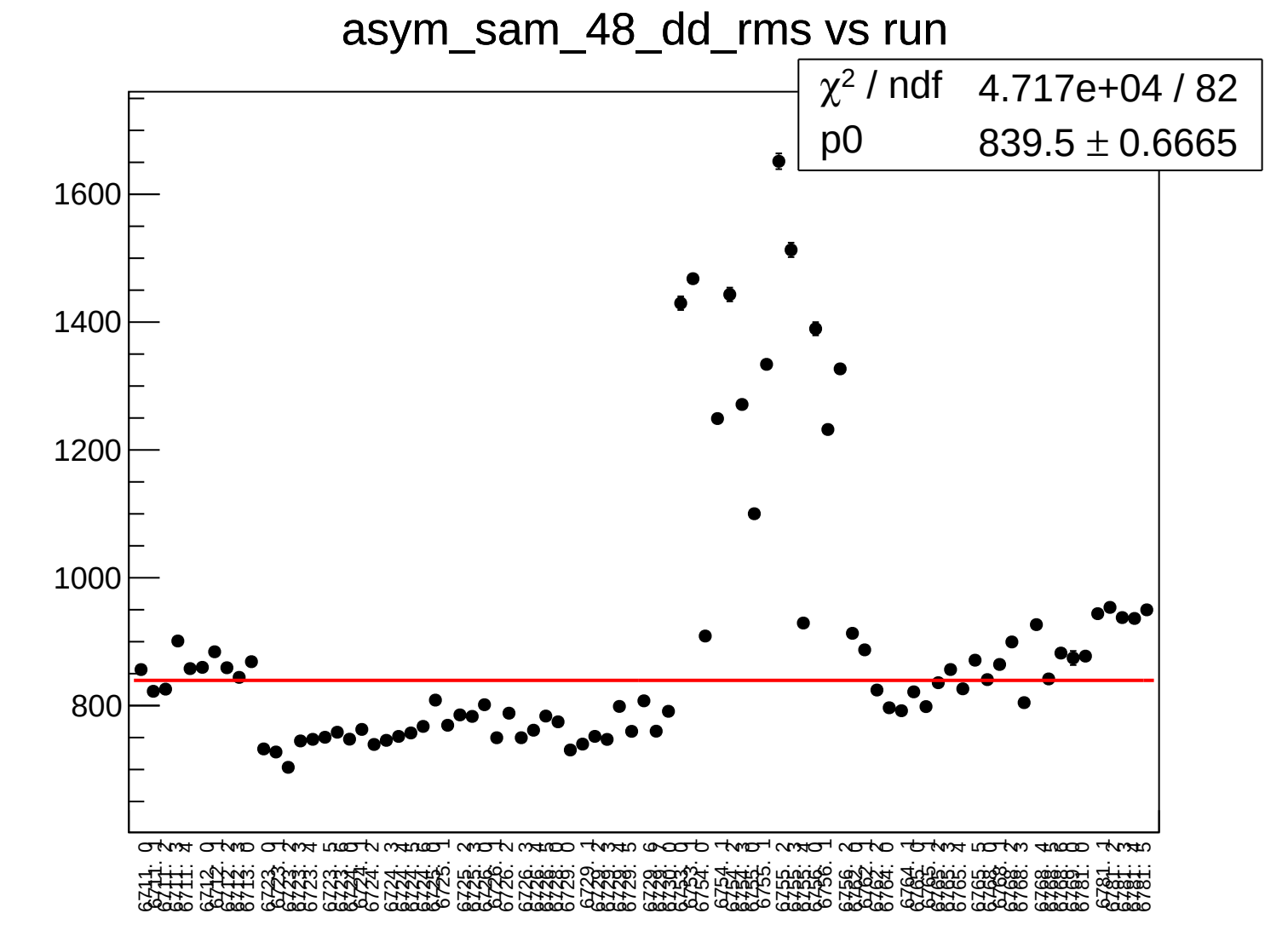

asym_sam_48_dd_correction_mean vs run
χ² / ndf 92.01 / 82
p0 −717.2 ± 981.2
40000
20000
0
−20000
−40000
pull
Entries 83
Mean −66.28
Std Dev 93.49
2
1
0
−1
−2

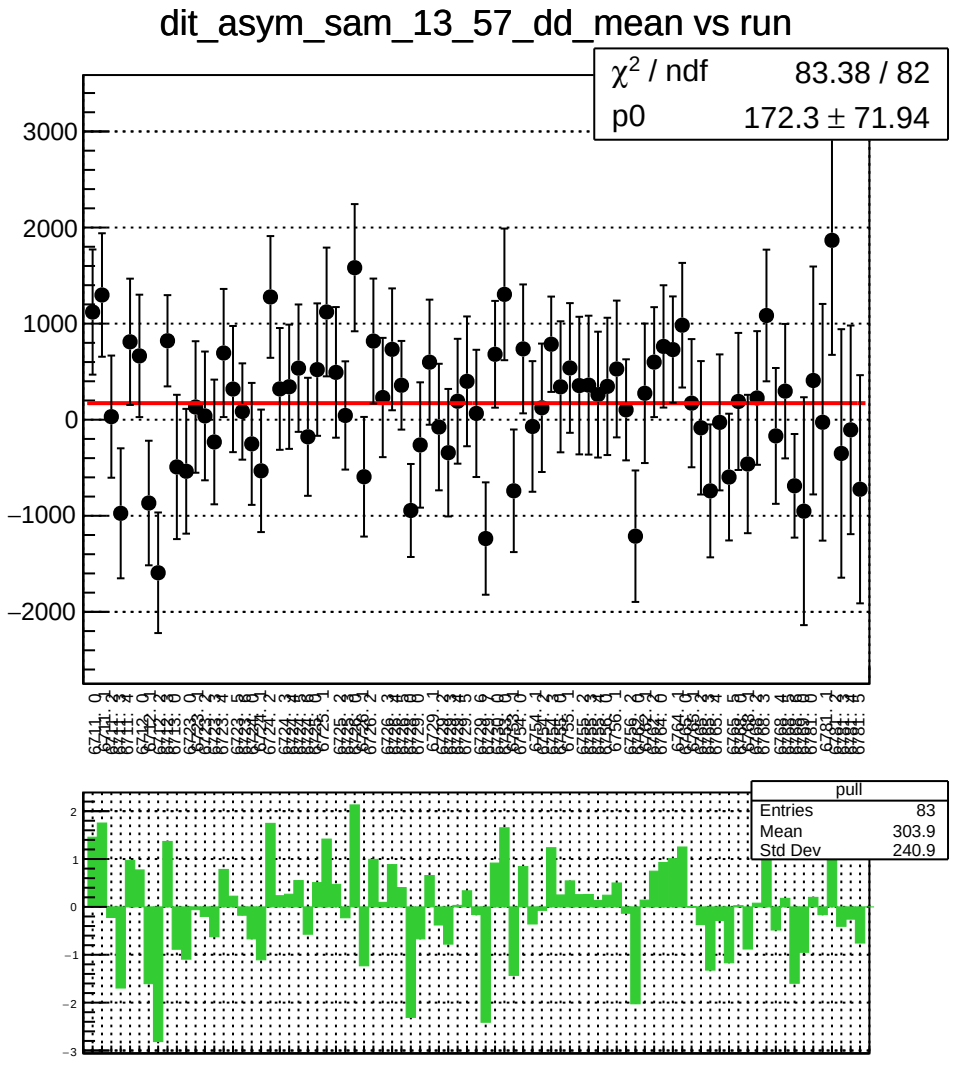

pull1D
Entries 83
Mean 0.01289
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

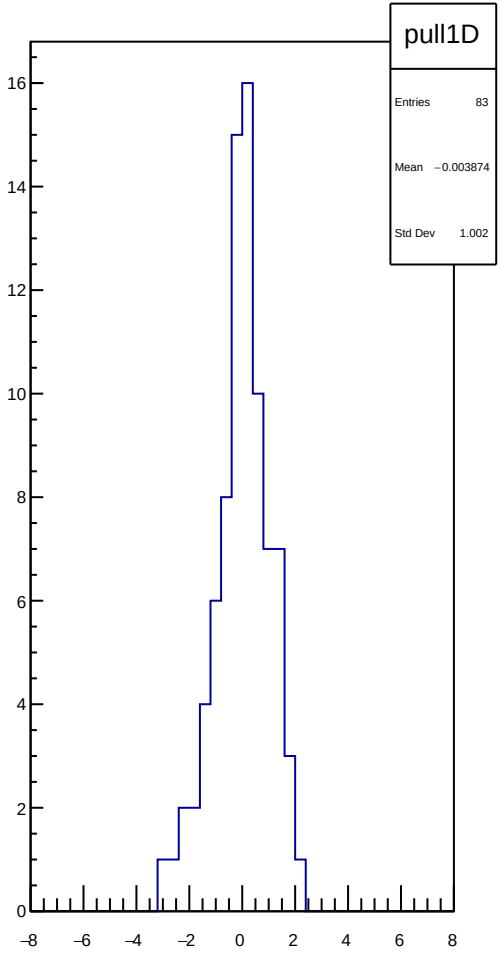

asym_sam_48_dd_correction_rms vs run
χ² / ndf 4.061e+04 / 82
p0 875.8 ± 0.6938
1600
1400
1200
1000
800

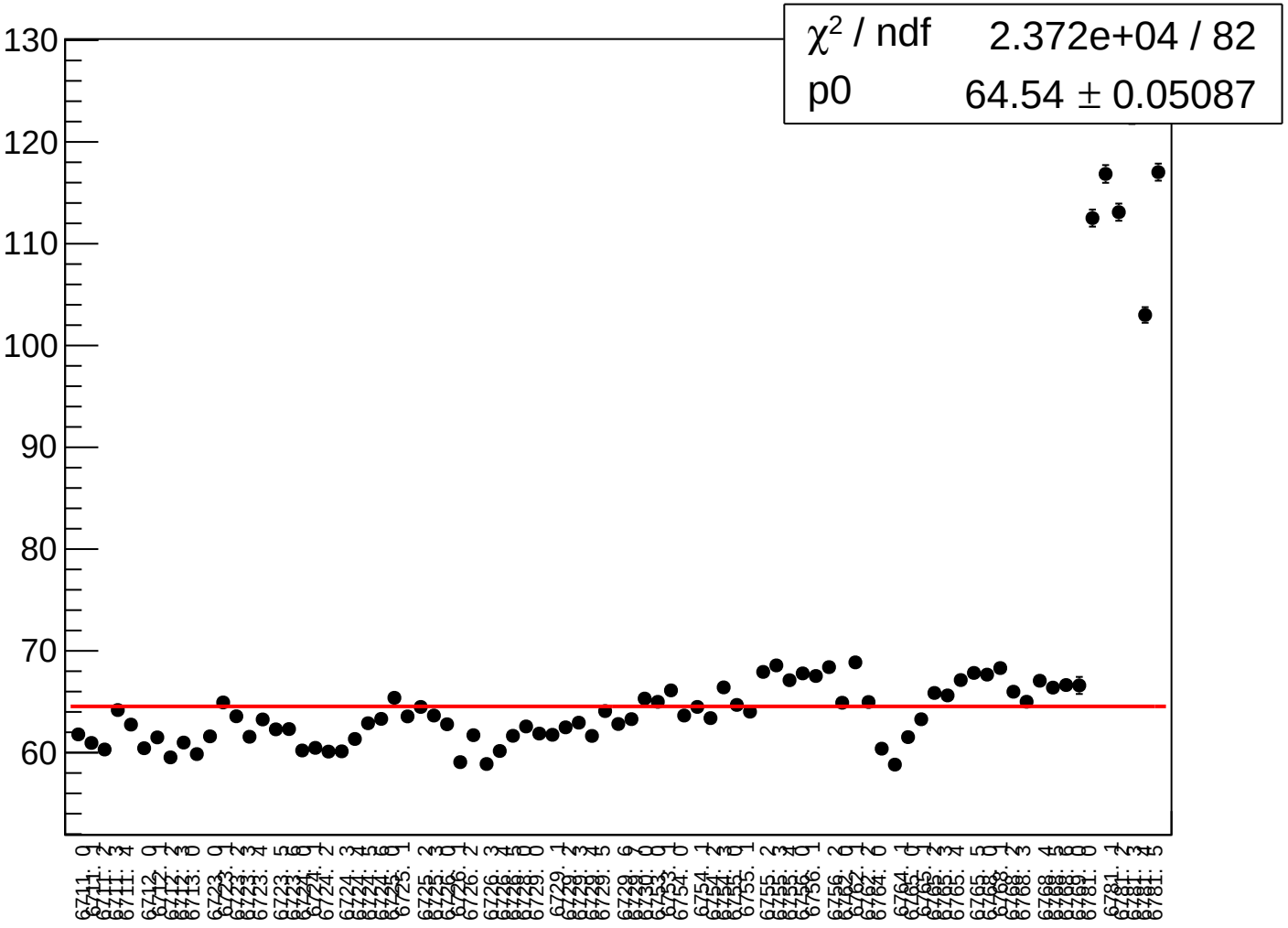

asym_sam_48_dd_mean vs run
χ² / ndf 98.2 / 82
p0 442.2 ± 942.5
pull
Entries 83
Mean −50.36
Std Dev 75.39

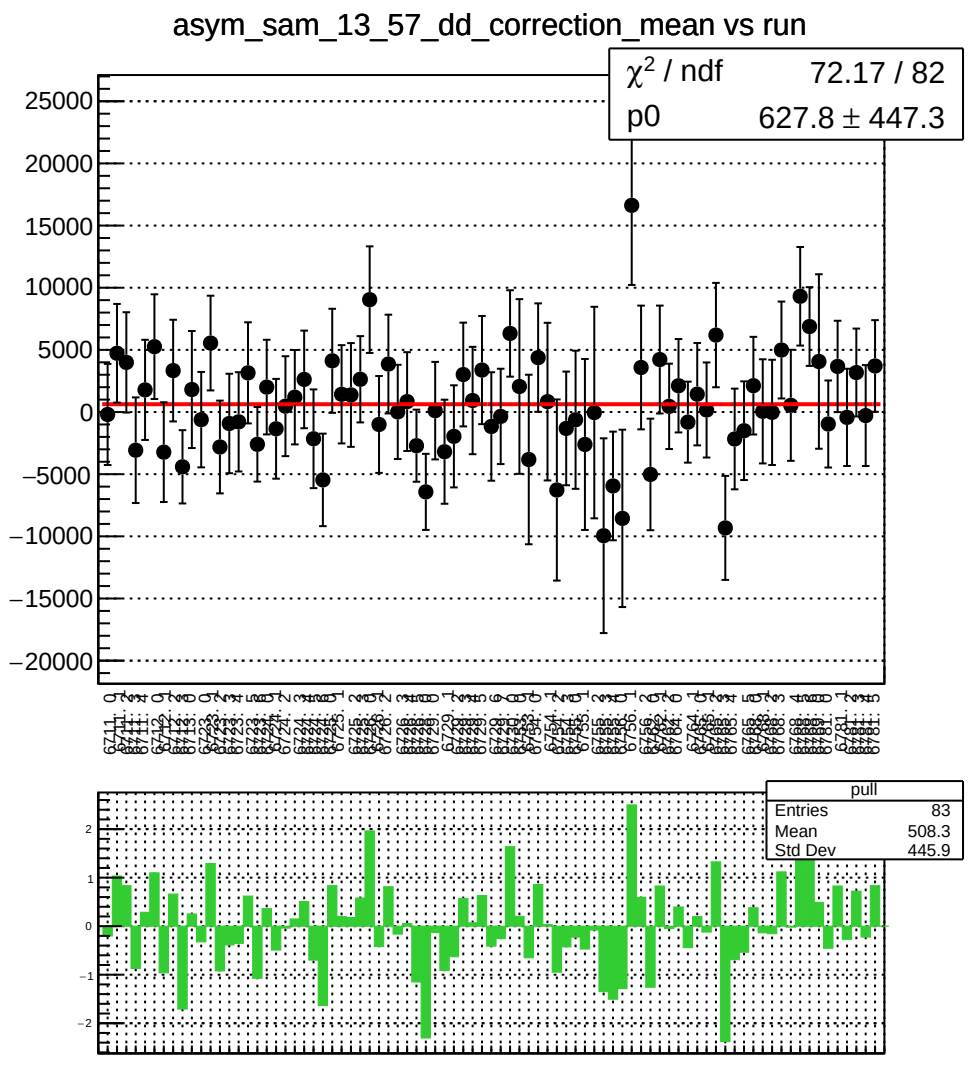

pull1D
Entries 83
Mean −0.01348
Std Dev 1.088

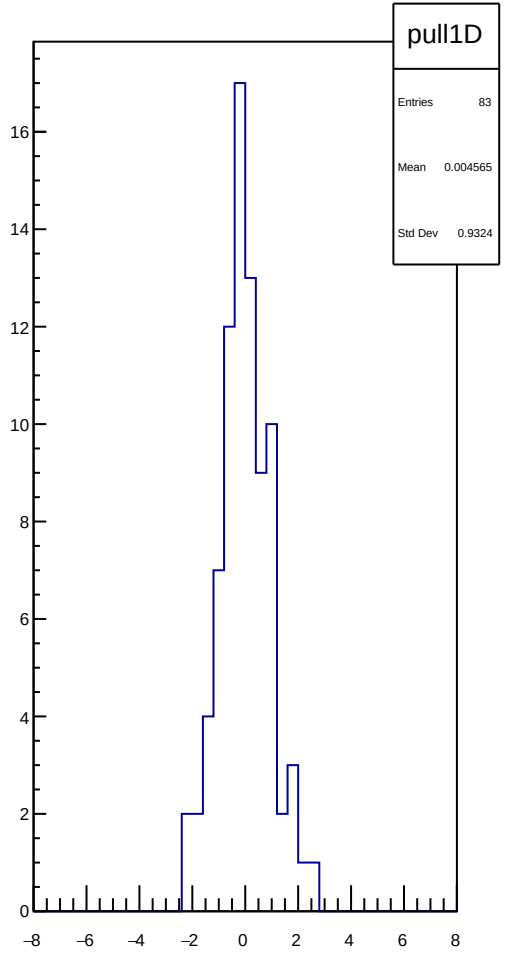

asym_sam_48_dd_rms vs run
χ² / ndf 4.717e+04 / 82
p0 839.5 ± 0.6665
1600
1400
1200
1000
800

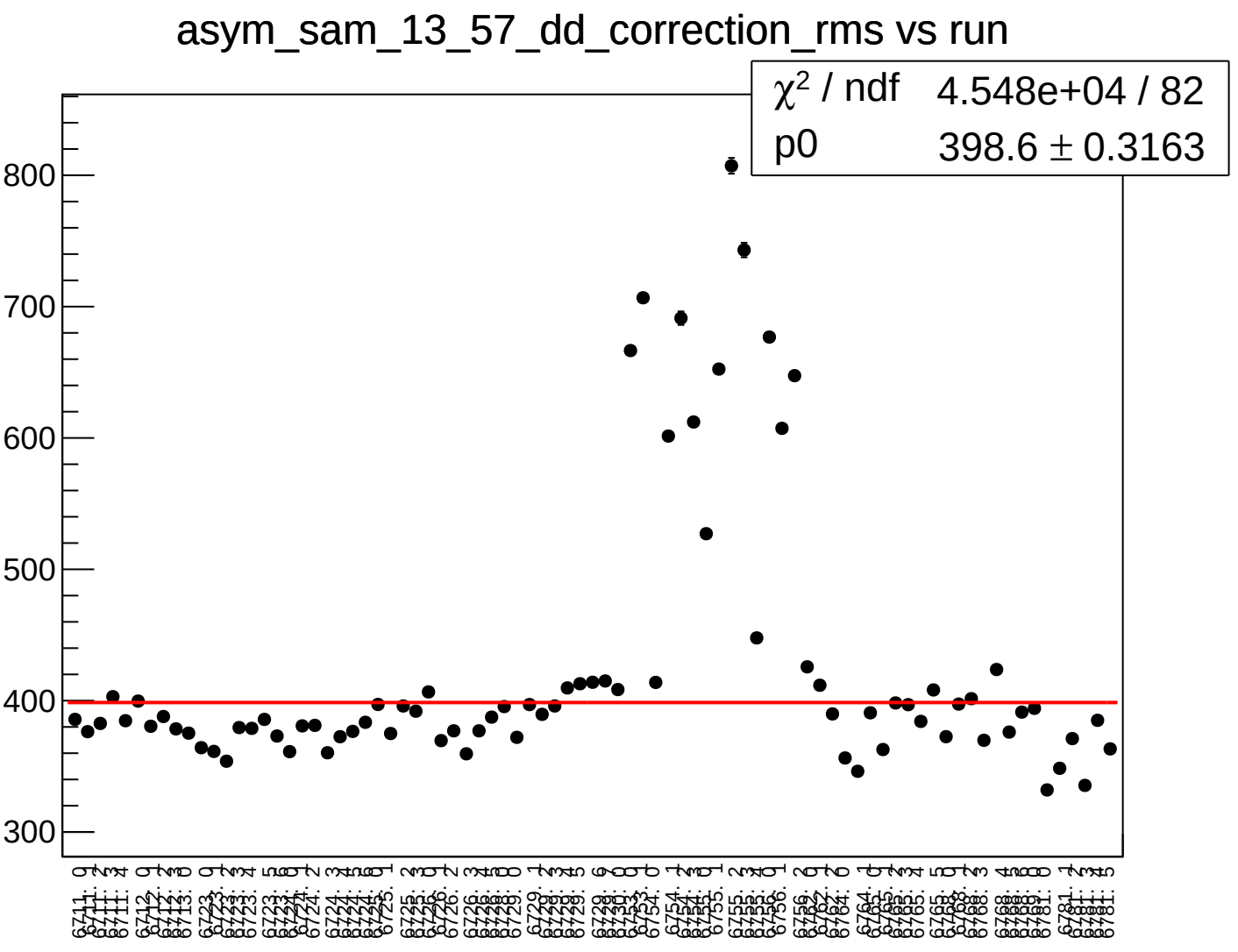

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 83.38 / 82
p0 172.3 ± 71.94
pull
Entries 83
Mean 303.9
Std Dev 240.9

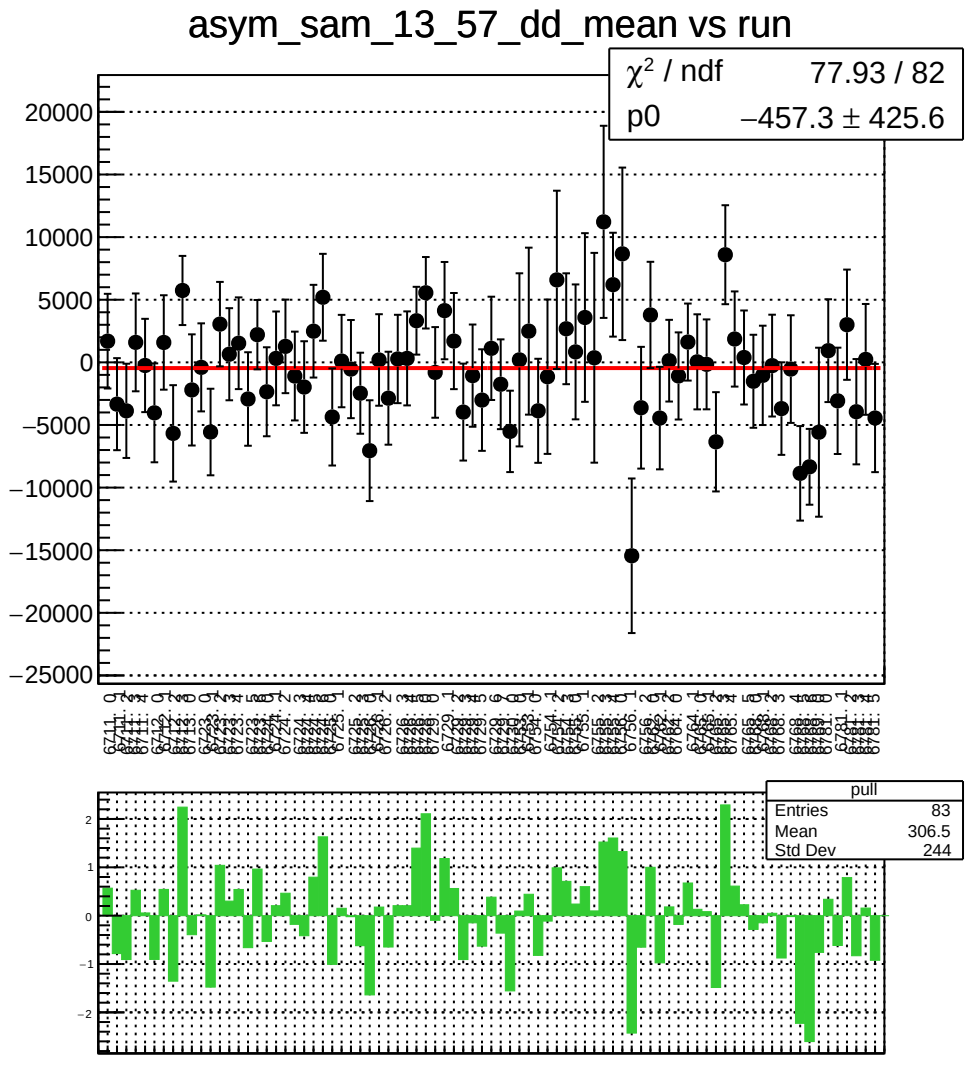

pull1D
Entries 83
Mean −0.003874
Std Dev 1.002

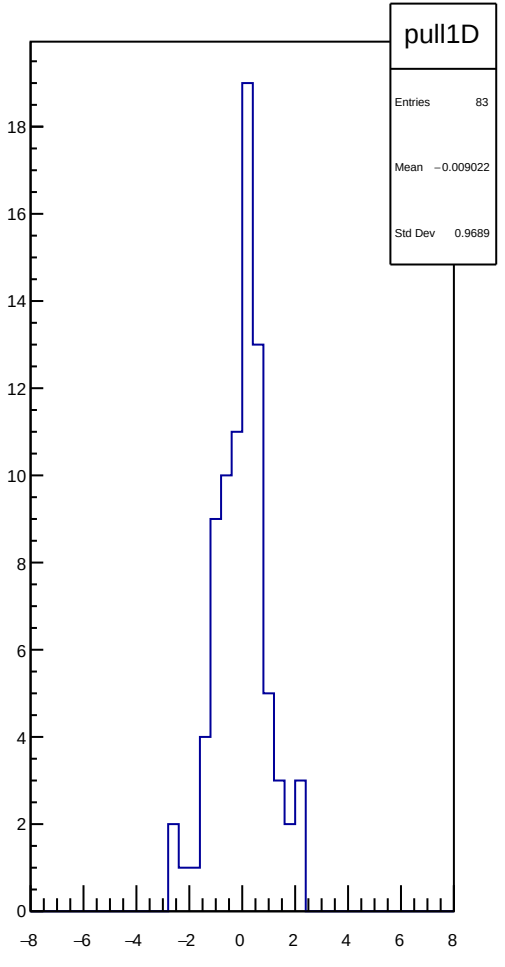

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.372e+04 / 82
p0 64.54 ± 0.05087
130
120
110
100
90
80
70
60

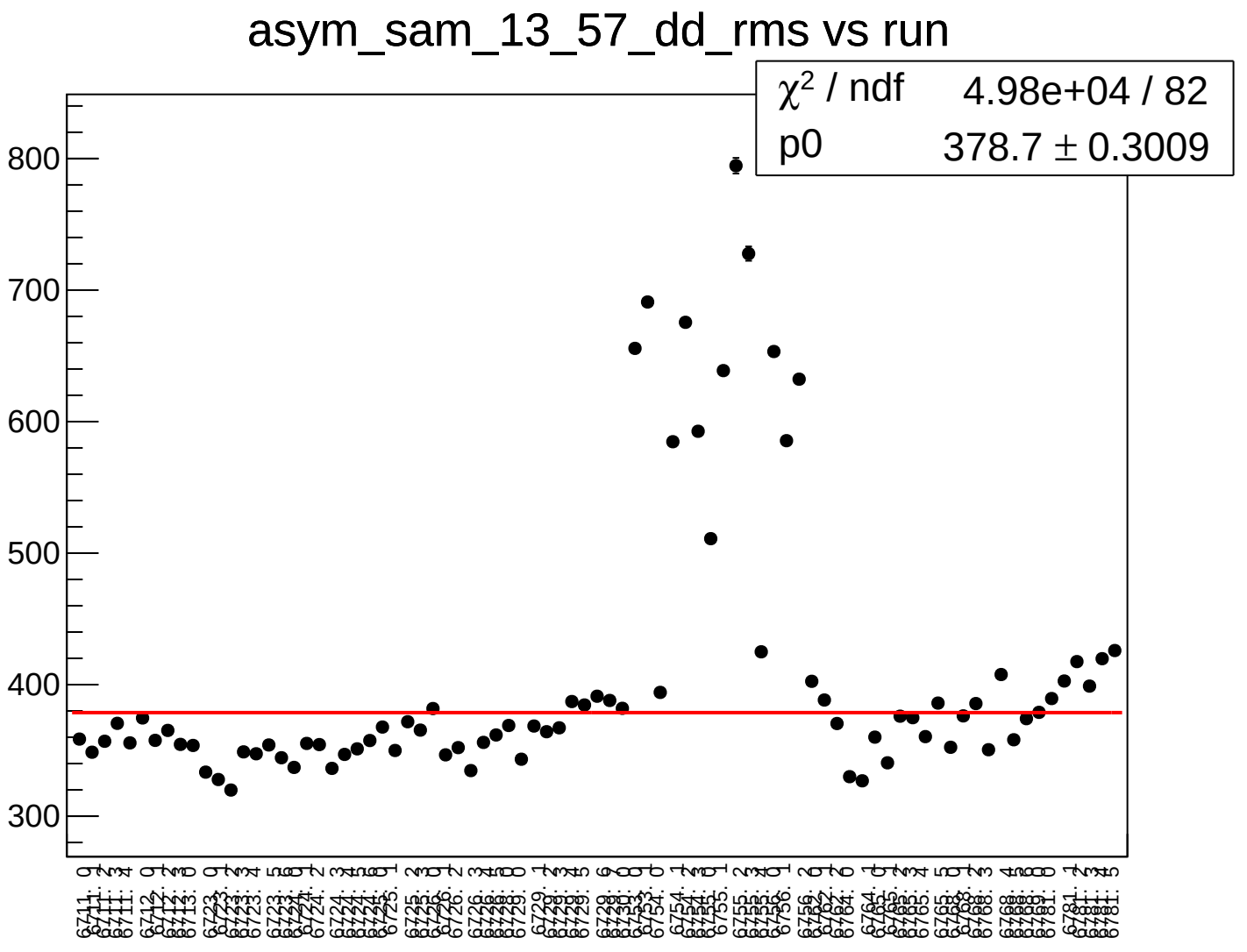

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 72.17 / 82
p0 627.8 ± 447.3
pull
Entries 83
Mean 508.3
Std Dev 445.9

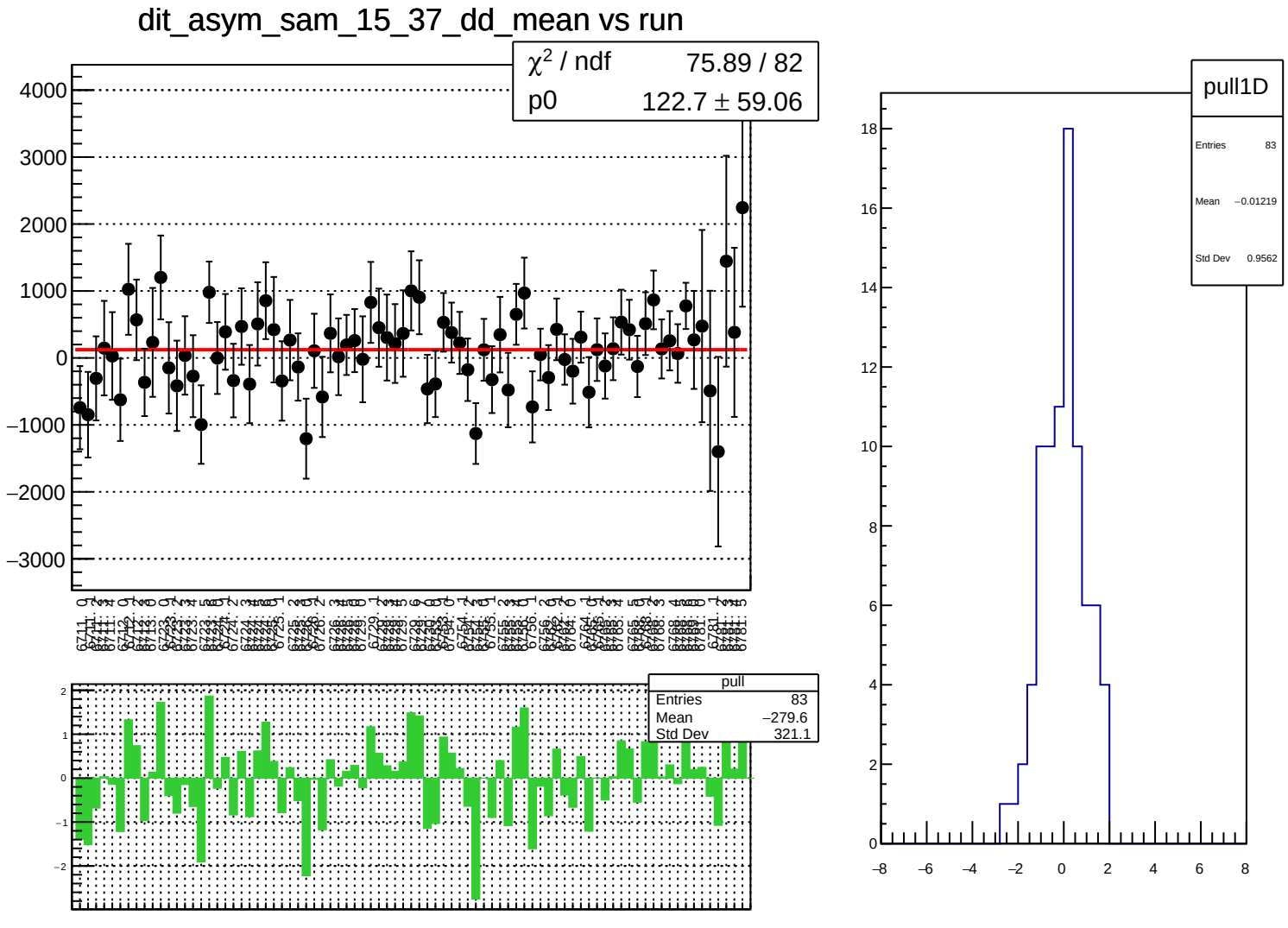

pull1D
Entries 83
Mean 0.004565
Std Dev 0.9324

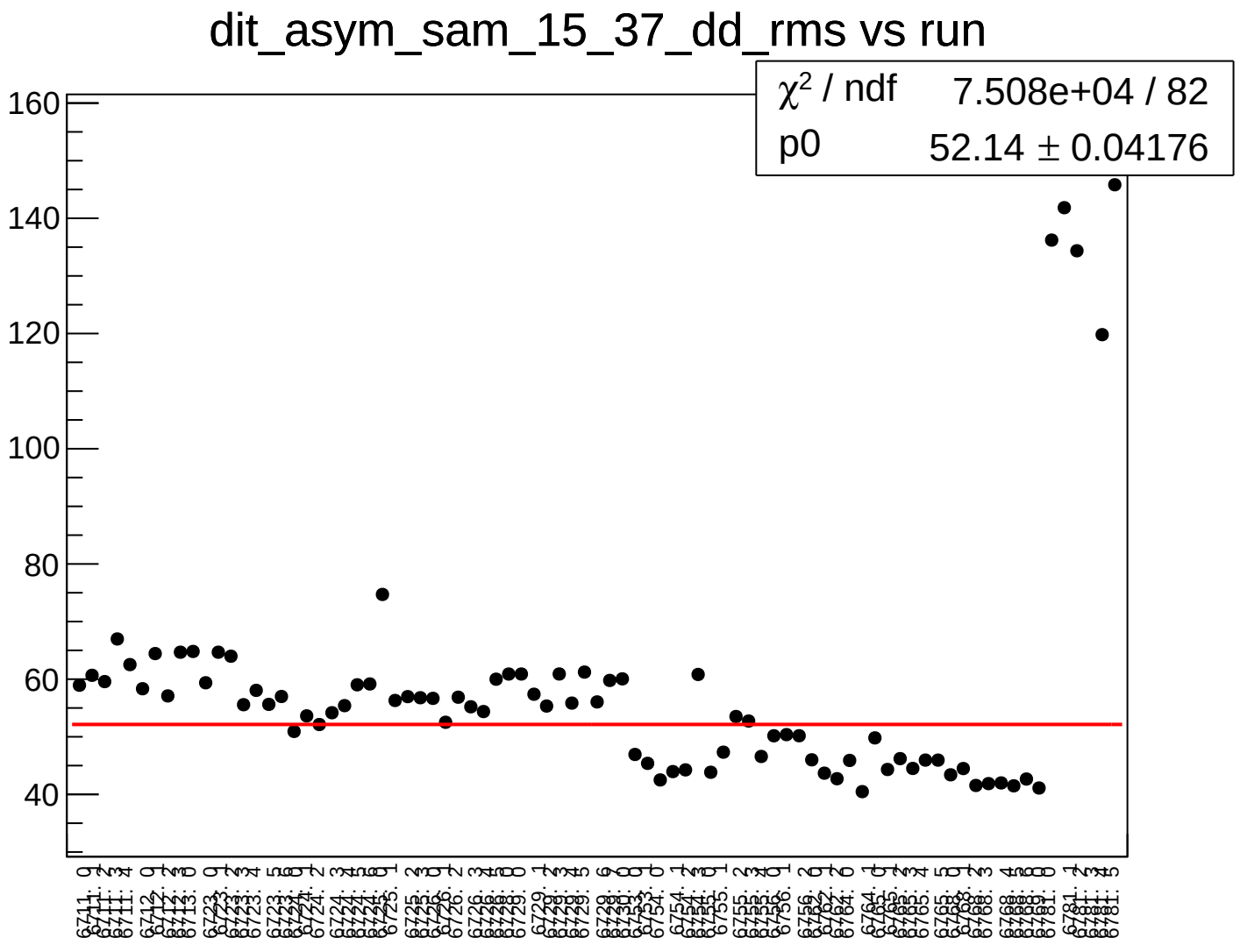

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 4.548e+04 / 82
p0 398.6 ± 0.3163
800
700
600
500
400
300

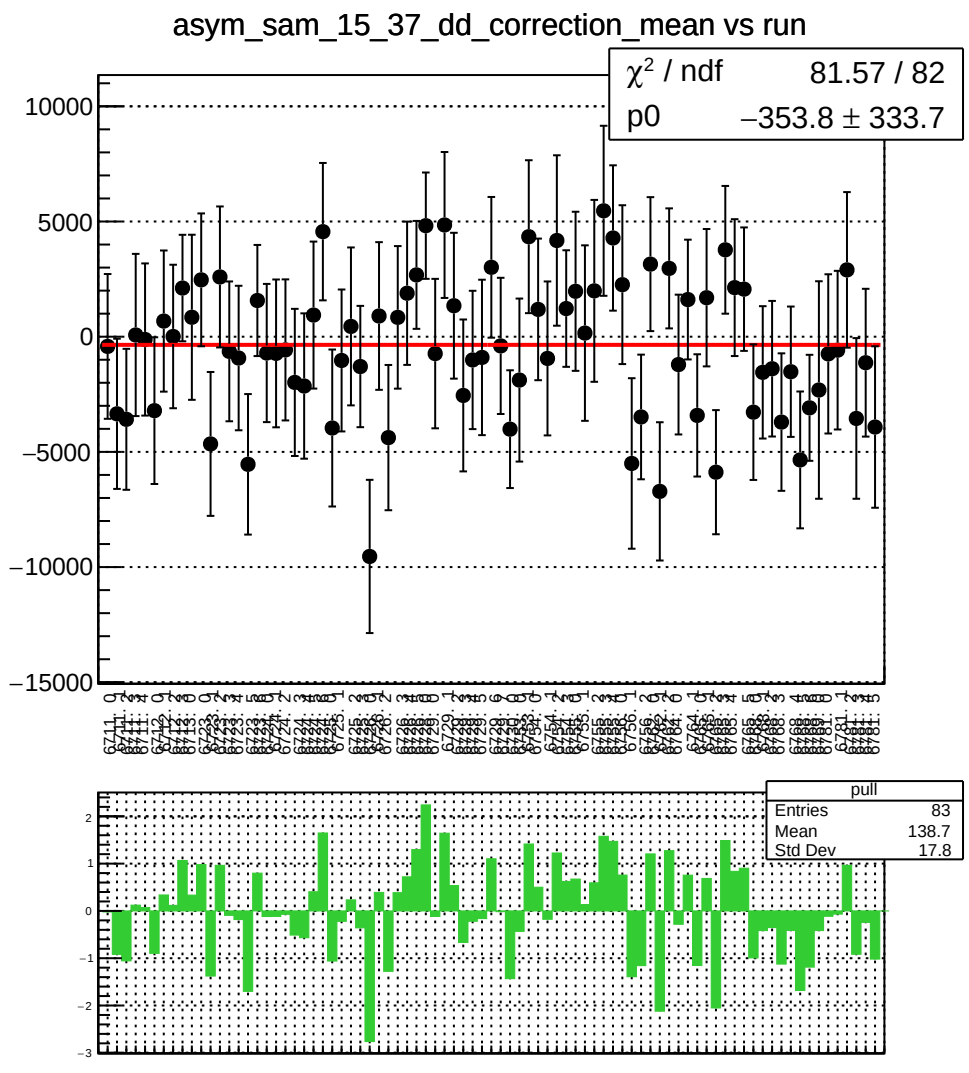

asym_sam_13_57_dd_mean vs run
χ² / ndf 77.93 / 82
p0 −457.3 ± 425.6
pull
Entries 83
Mean 306.5
Std Dev 244

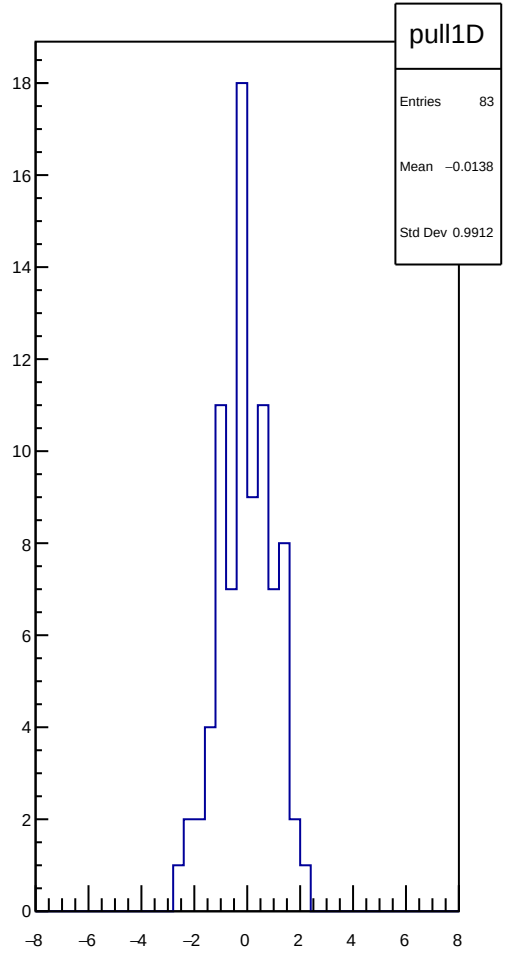

pull1D
Entries 83
Mean −0.009022
Std Dev 0.9689

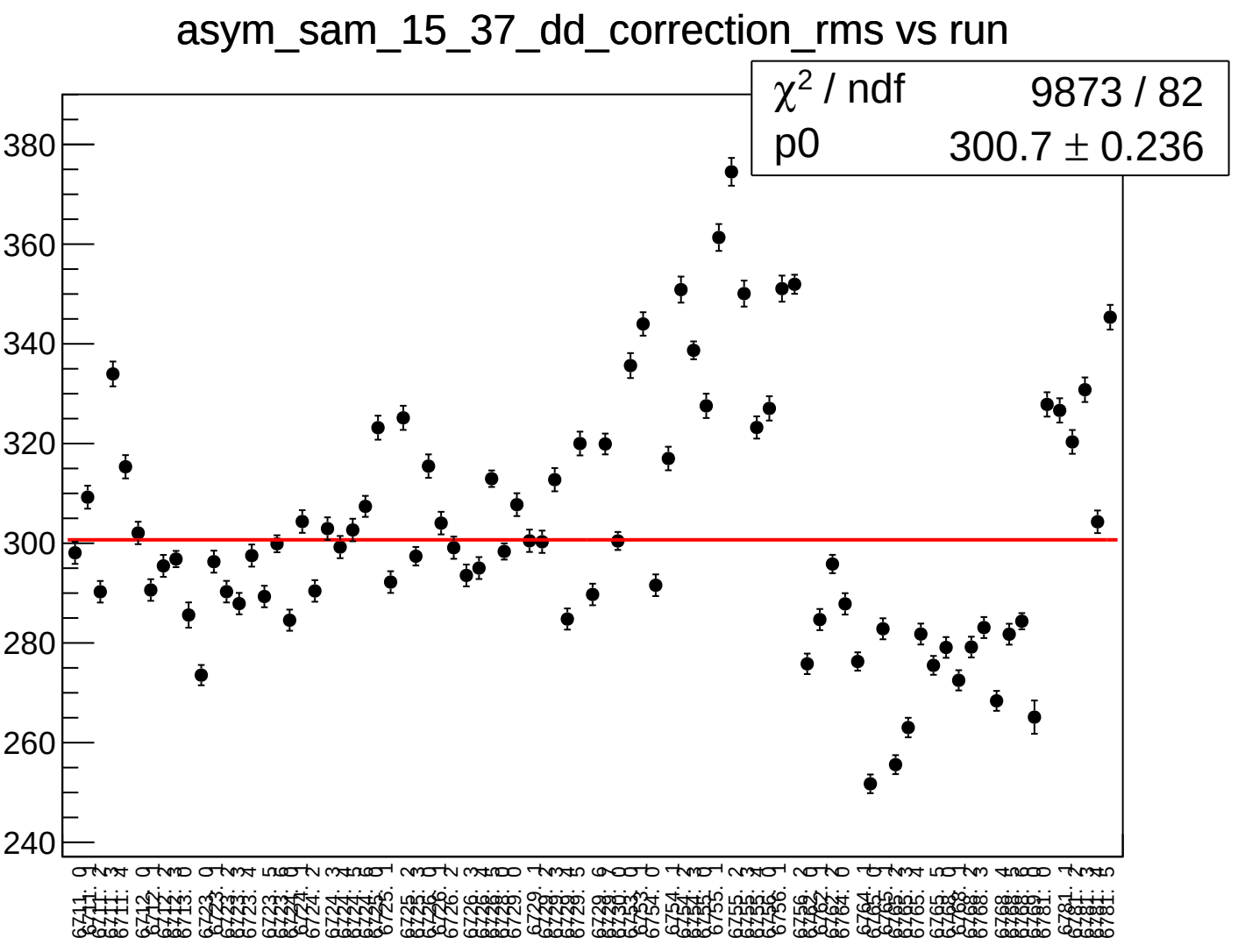

asym_sam_13_57_dd_rms vs run
χ² / ndf 4.98e+04 / 82
p0 378.7 ± 0.3009
800
700
600
500
400
300

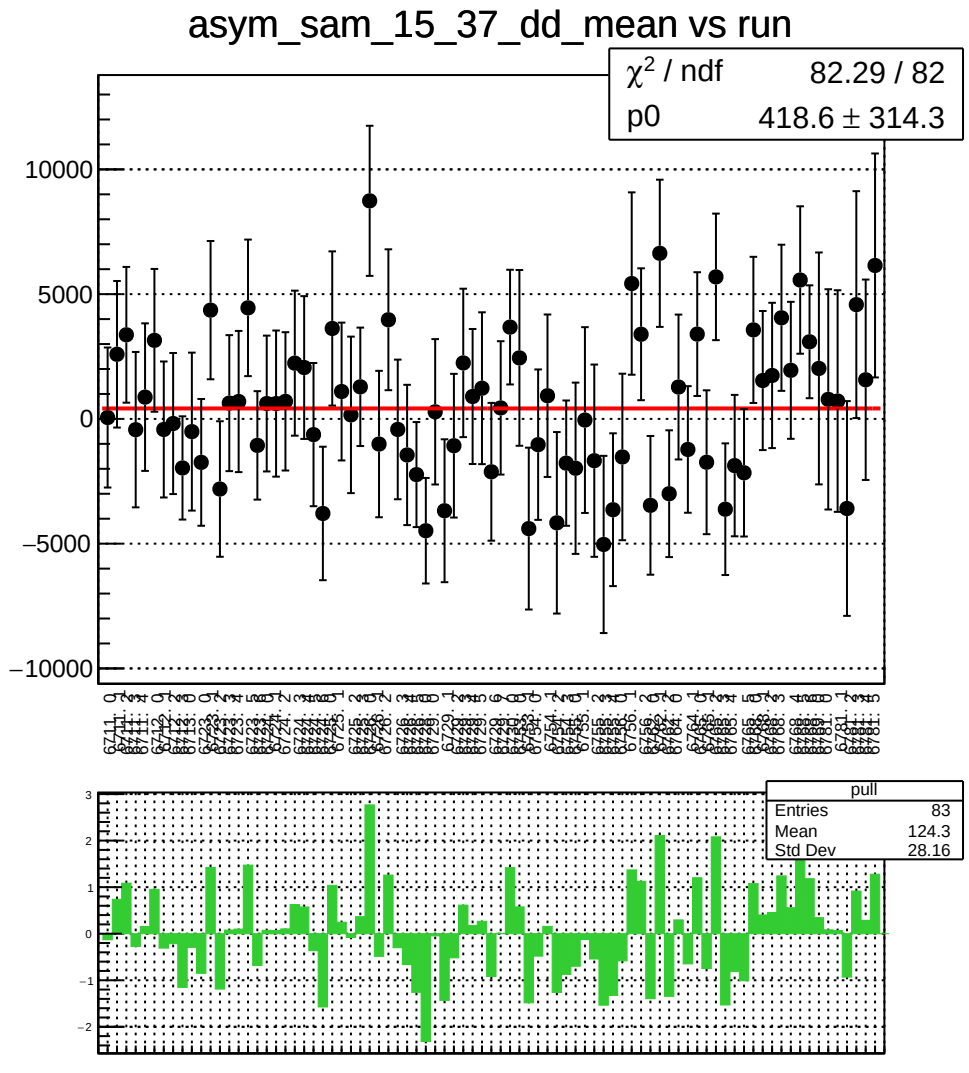

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 75.89 / 82
p0 122.7 ± 59.06
pull
Entries 83
Mean −279.6
Std Dev 321.1
pull1D
Entries 83
Mean −0.01219
Std Dev 0.9562

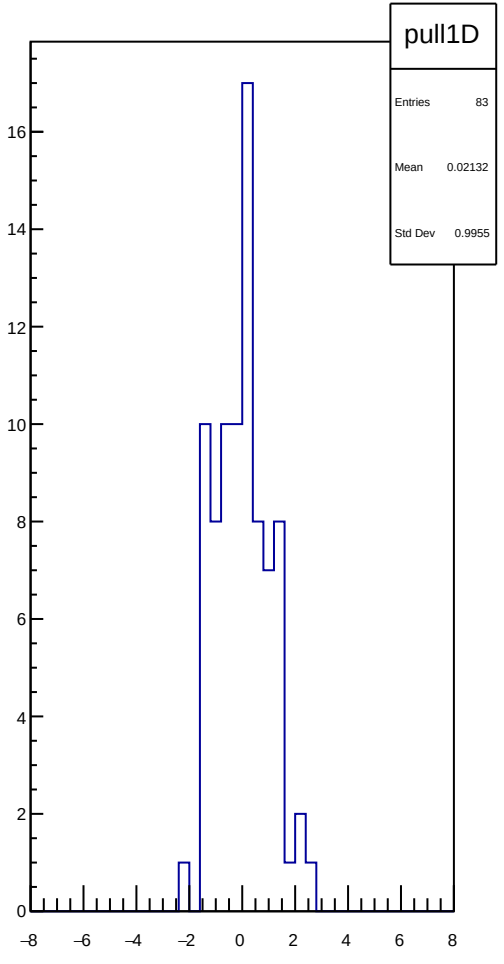

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 7.508e+04 / 82
p0 52.14 ± 0.04176
160
140
120
100
80
60
40

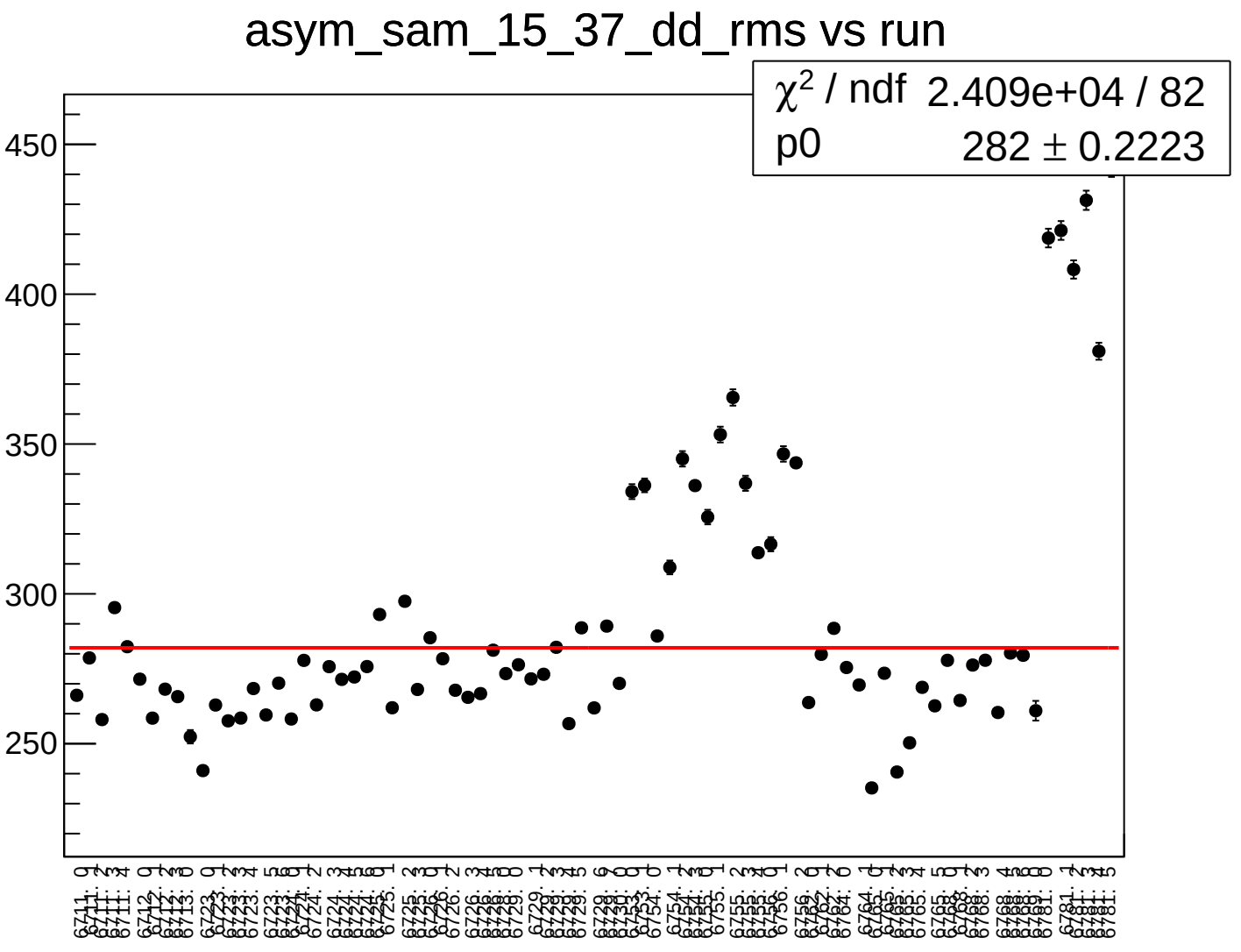

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 81.57 / 82
p0 −353.8 ± 333.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 138.7
Std Dev 17.8
2
1
0
−1
−2
−3

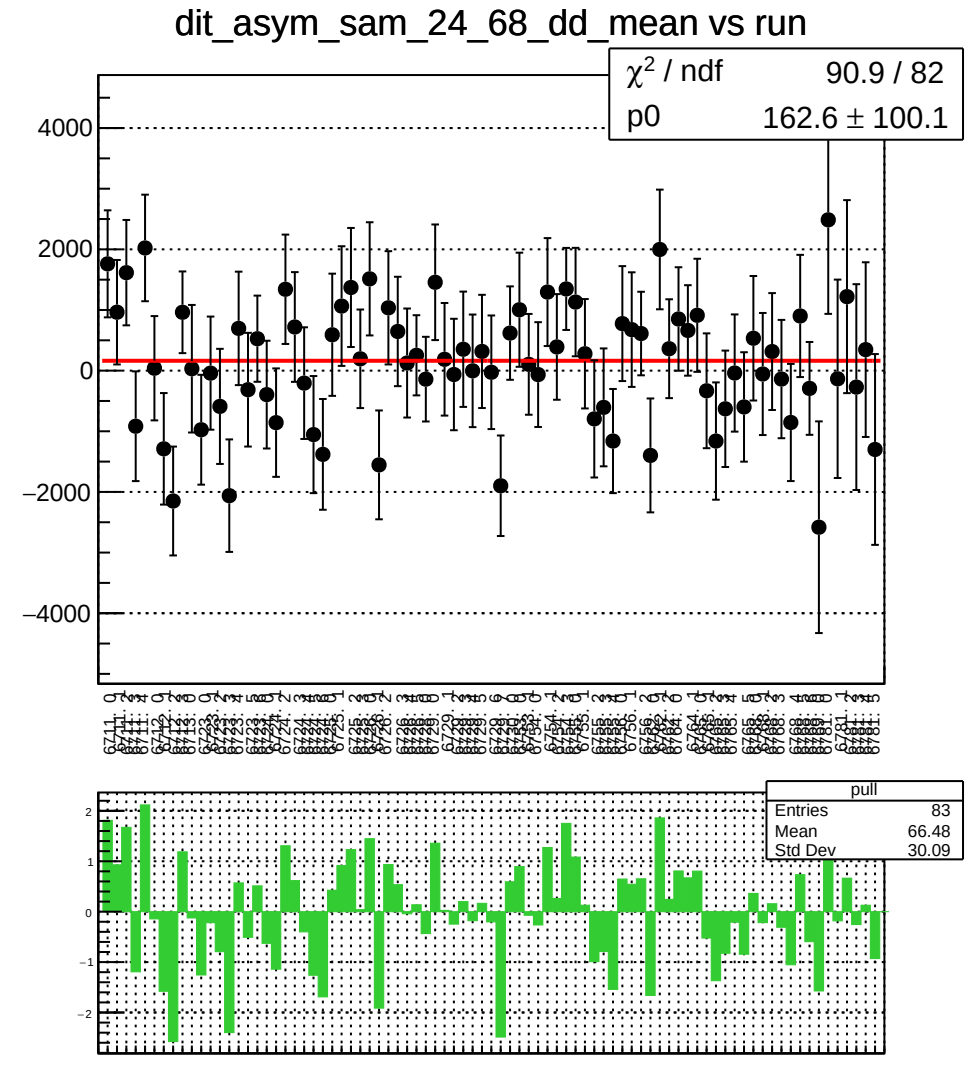

pull1D
Entries 83
Mean −0.0138
Std Dev 0.9912
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

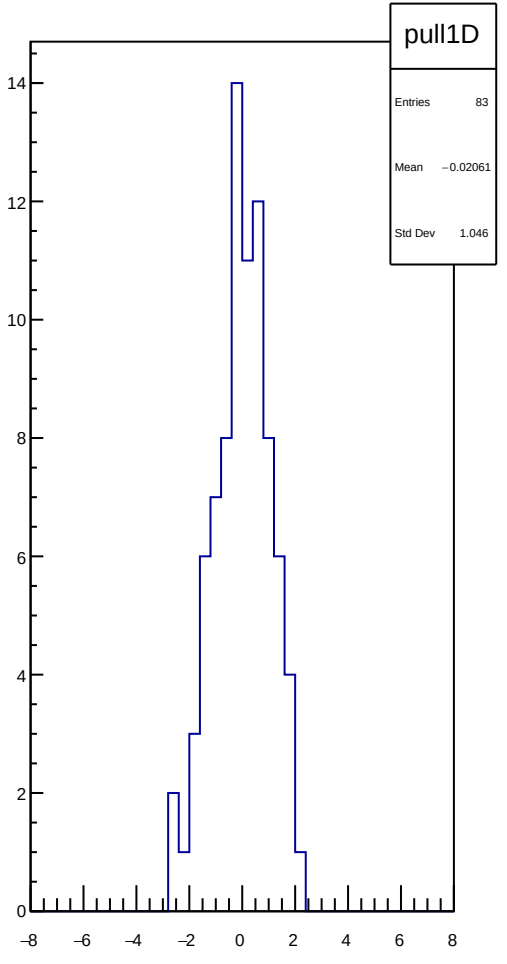

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 9873 / 82
p0 300.7 ± 0.236
380
360
340
320
300
280
260
240

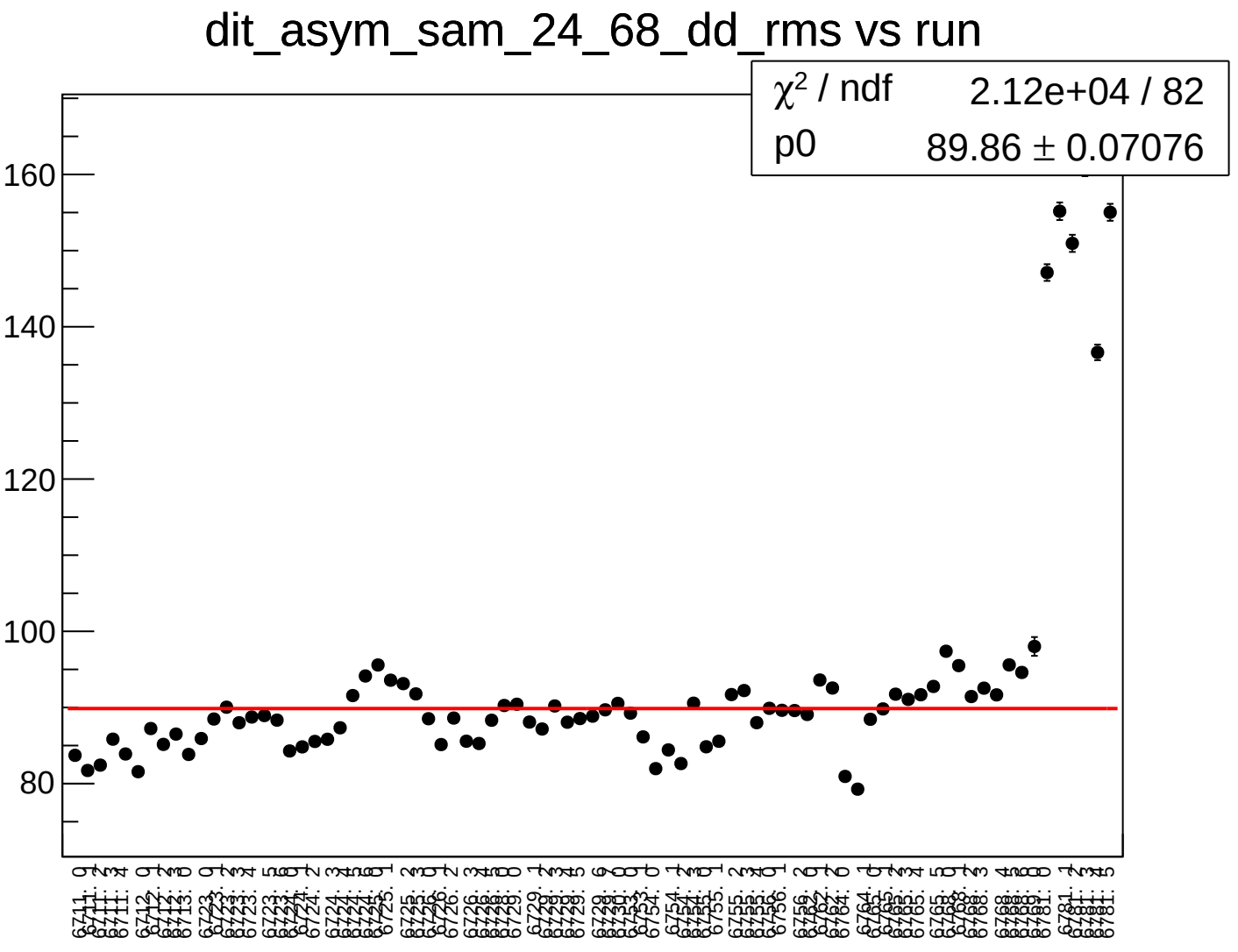

asym_sam_15_37_dd_mean vs run
χ² / ndf 82.29 / 82
p0 418.6 ± 314.3
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 124.3
Std Dev 28.16
3
2
1
0
−1
−2

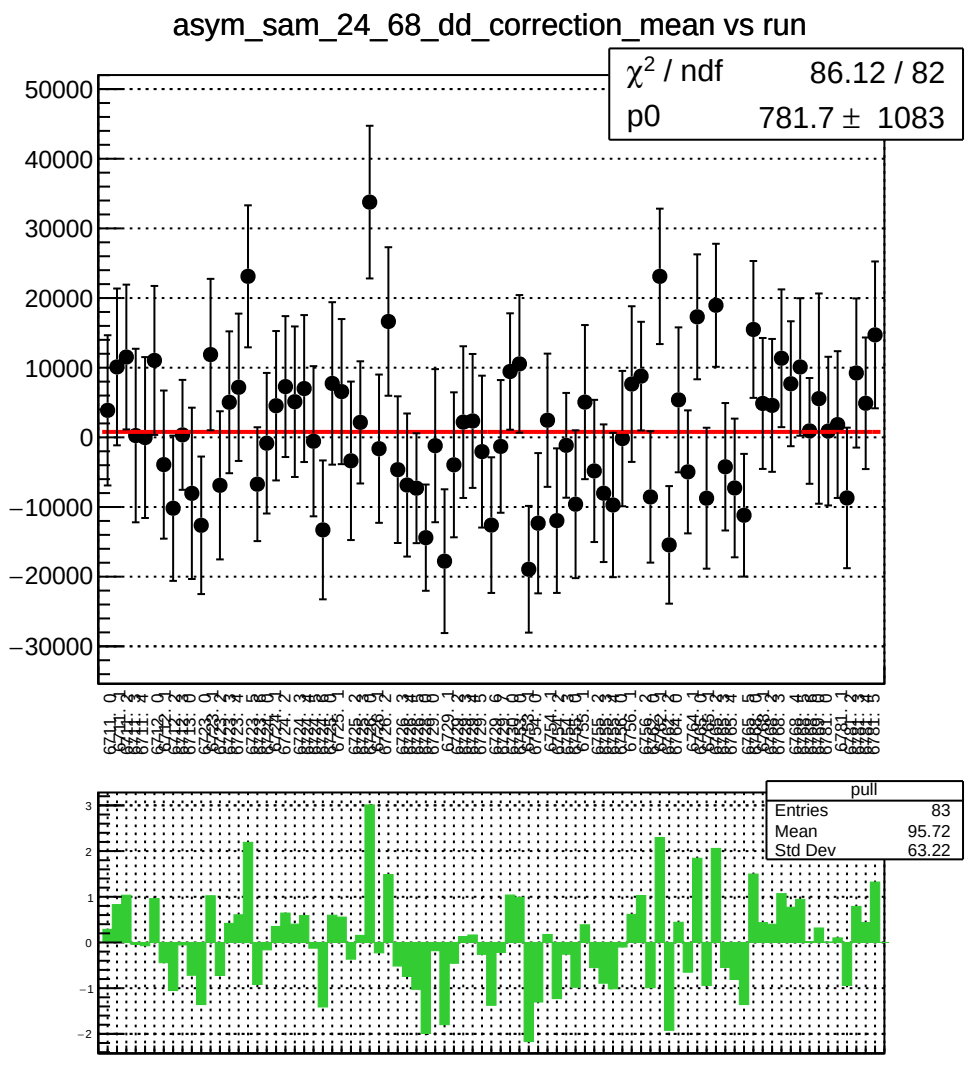

pull1D
Entries 83
Mean 0.02132
Std Dev 0.9955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

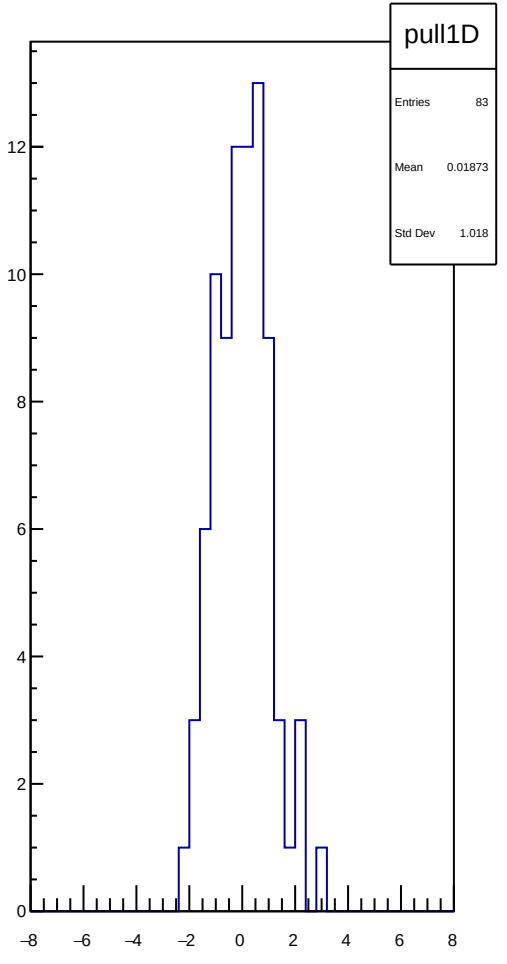

asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.409e+04 / 82
p0 282 ± 0.2223
450
400
350
300
250

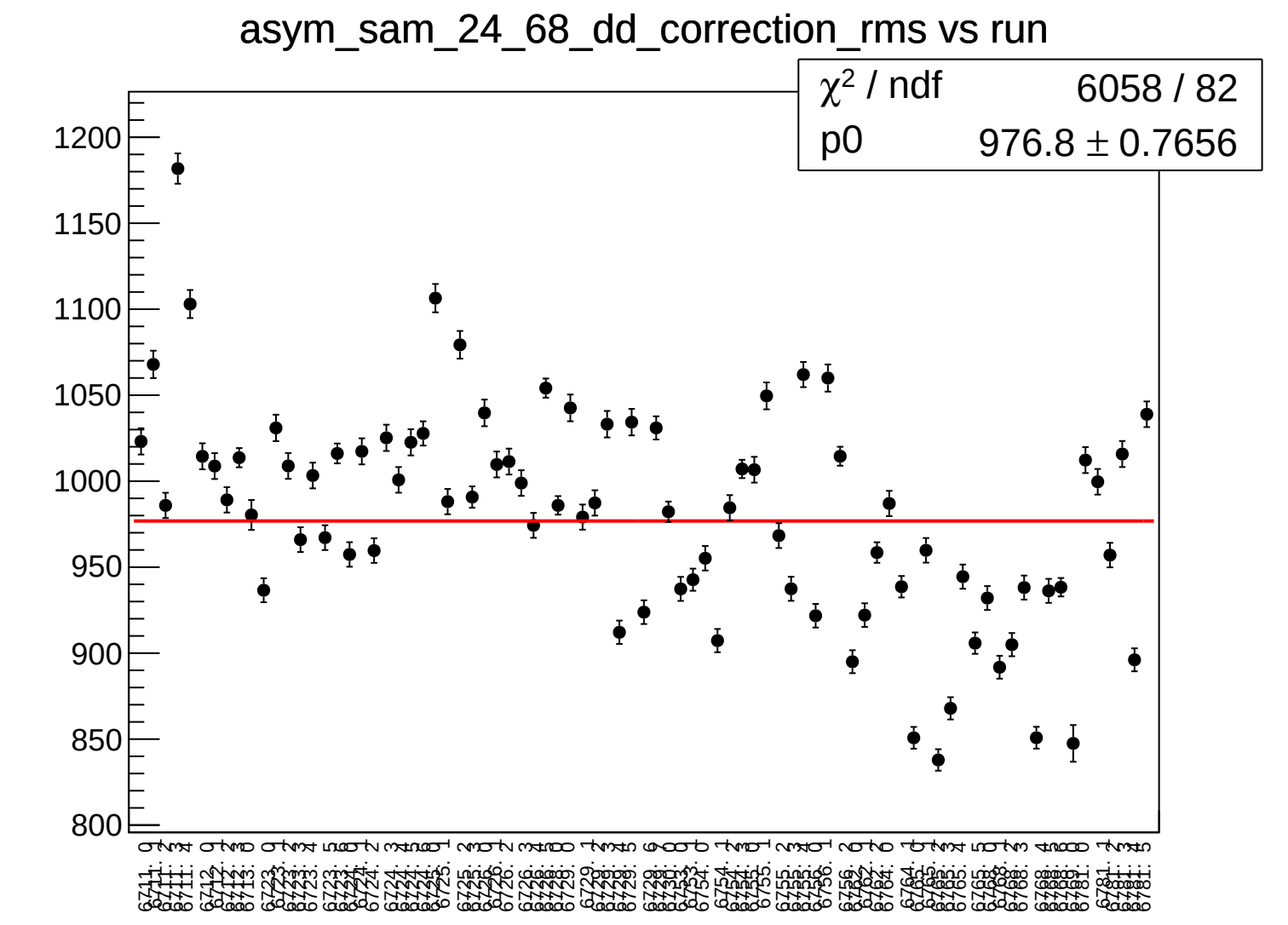

dit_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 90.9 / 82
p0 162.6 ± 100.1
4000
2000
0
−2000
−4000
pull
Entries 83
Mean 66.48
Std Dev 30.09
2
1
0
−1
−2

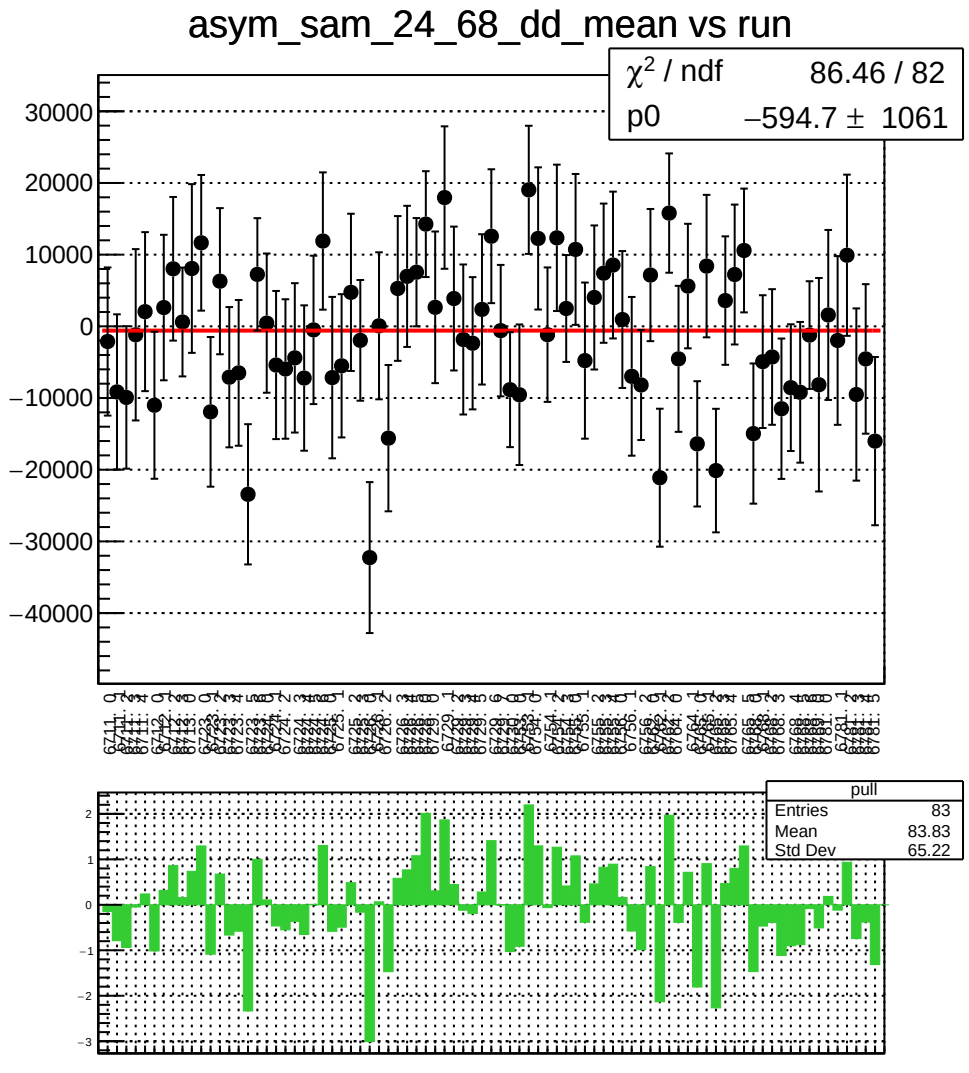

pull1D
Entries 83
Mean −0.02061
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

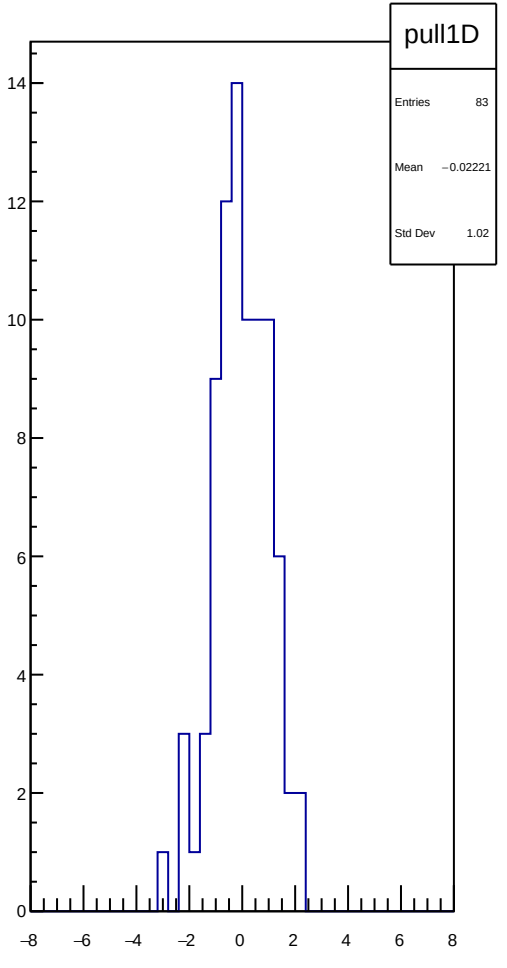

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 2.12e+04 / 82
p0 89.86 ± 0.07076
160
140
120
100
80

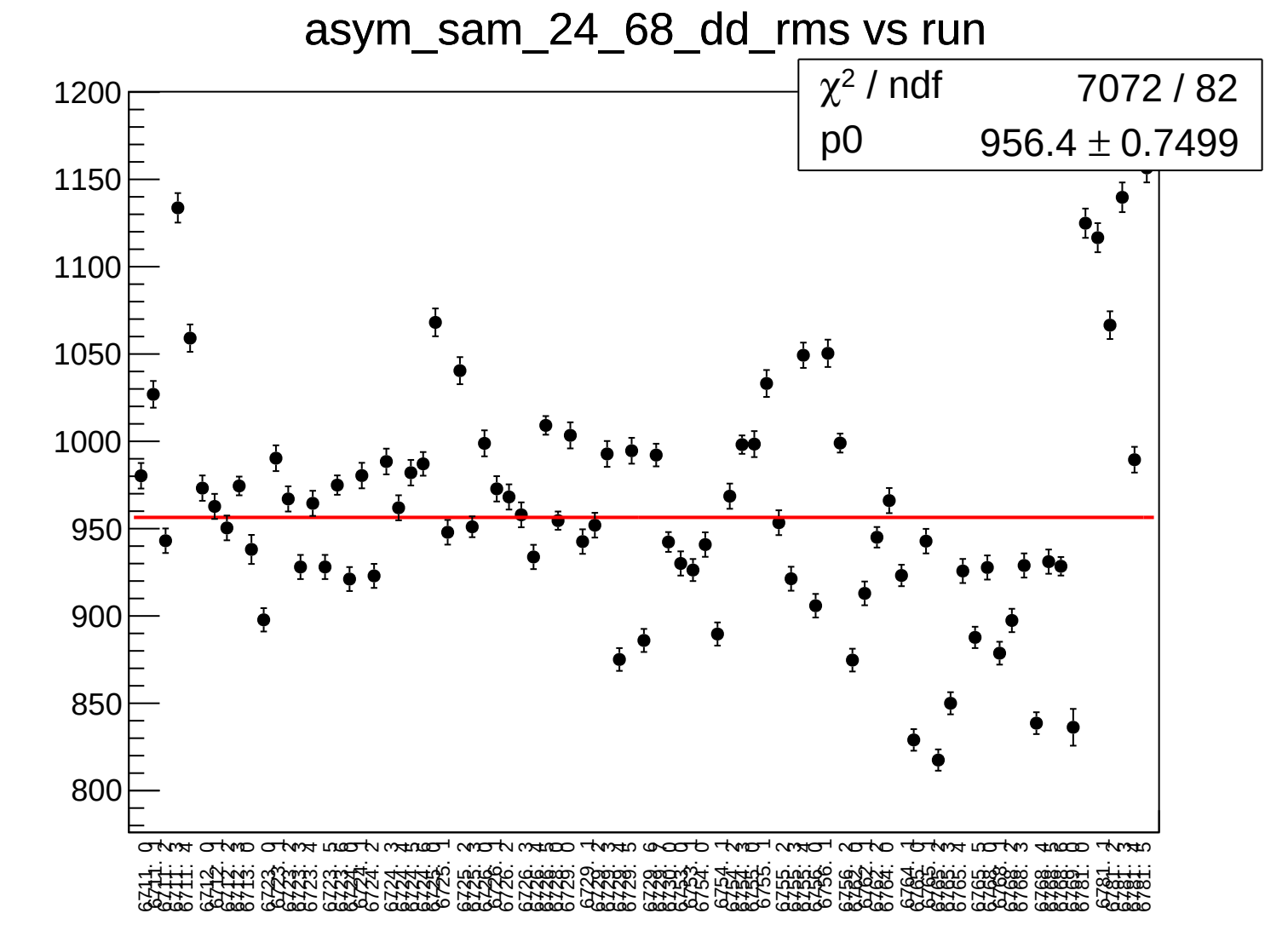

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 86.12 / 82
p0 781.7 ± 1083
pull
Entries 83
Mean 95.72
Std Dev 63.22

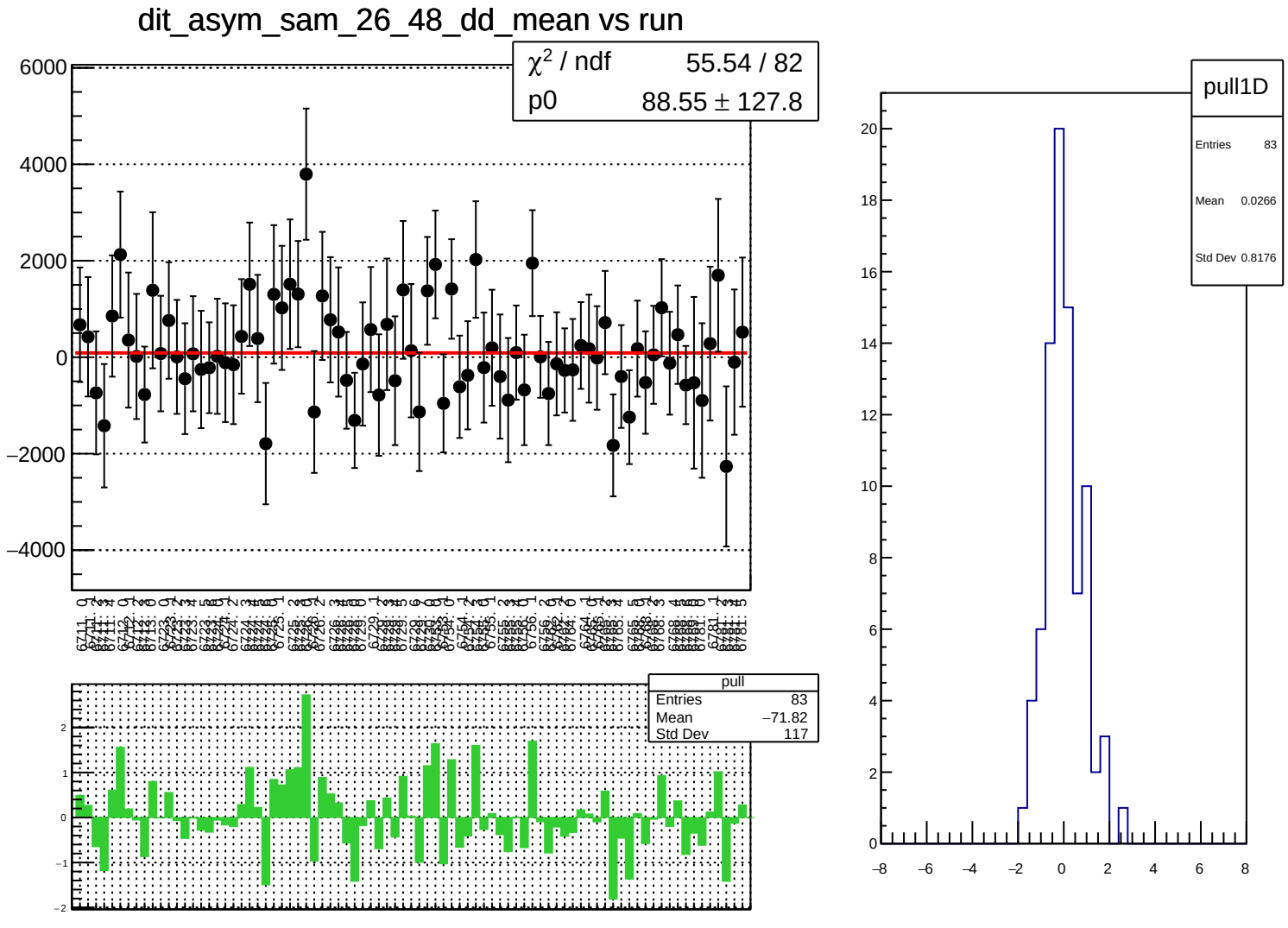

pull1D
Entries 83
Mean 0.01873
Std Dev 1.018

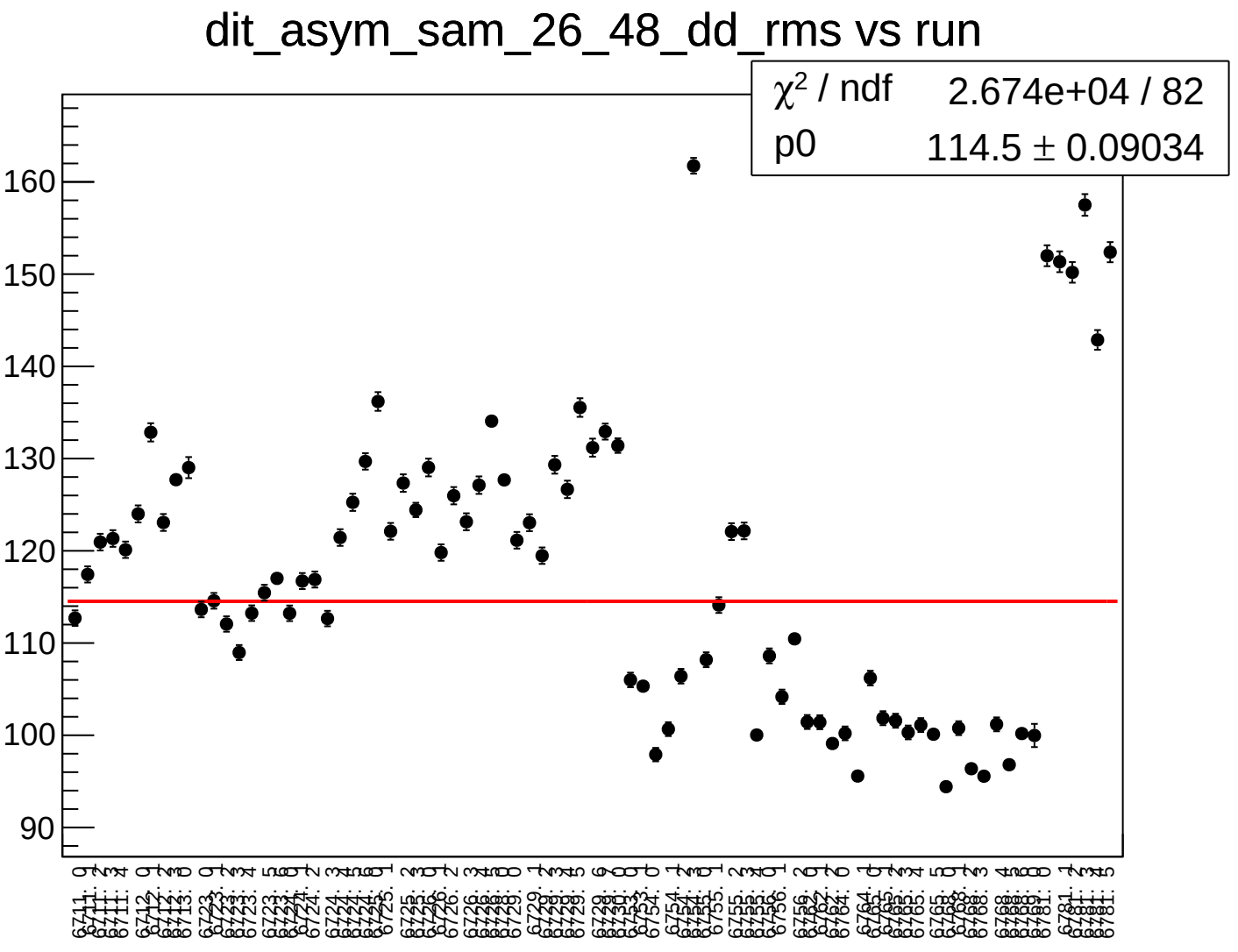

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 6058 / 82
p0 976.8 ± 0.7656
1200
1150
1100
1050
1000
950
900
850
800

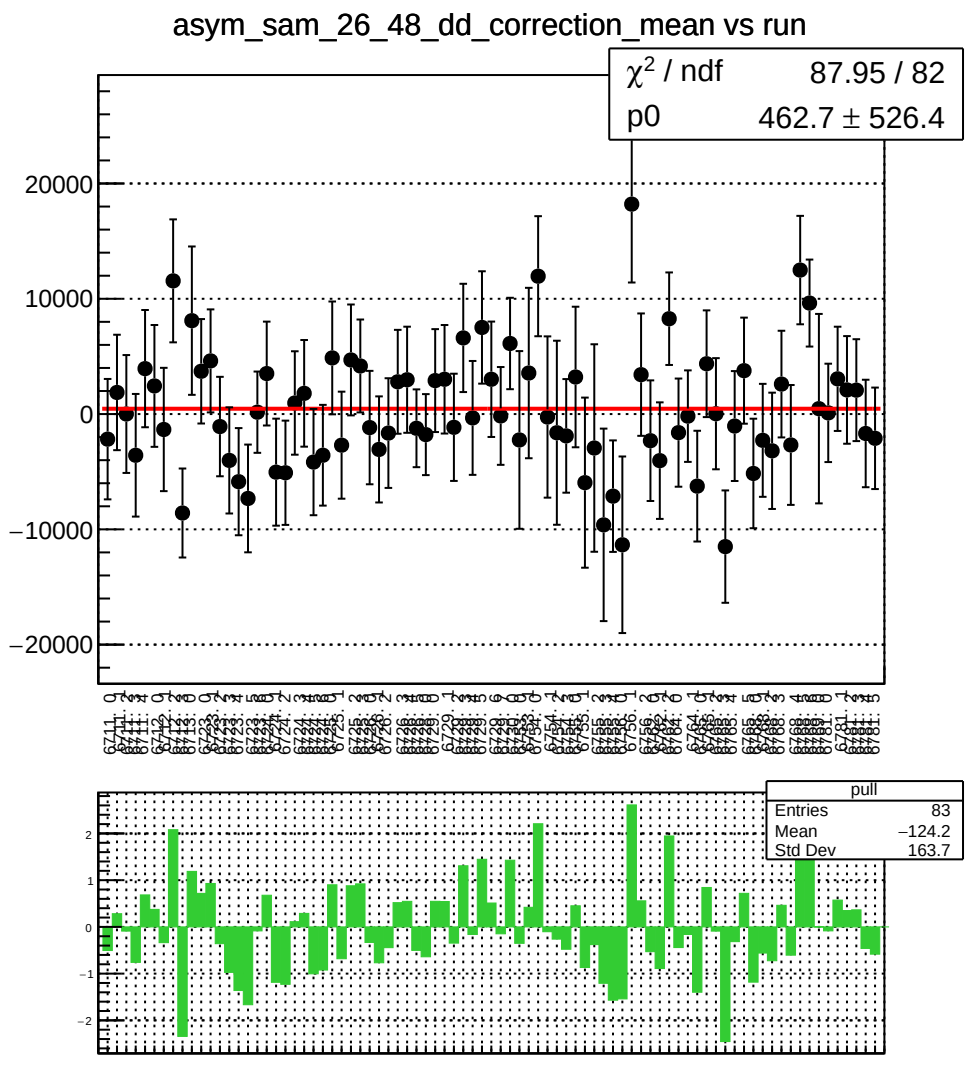

asym_sam_24_68_dd_mean vs run
χ² / ndf 86.46 / 82
p0 −594.7 ± 1061
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 83
Mean 83.83
Std Dev 65.22
2
1
0
−1
−2
−3

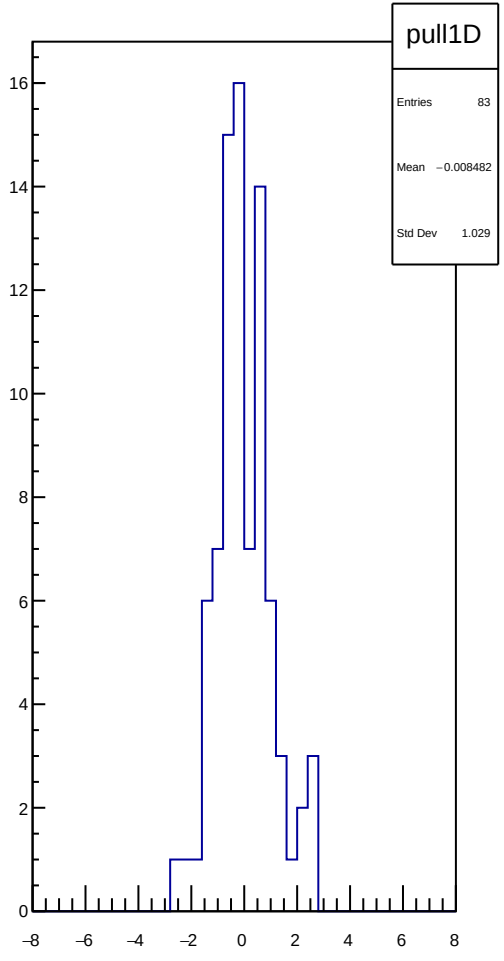

pull1D
Entries 83
Mean −0.02221
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

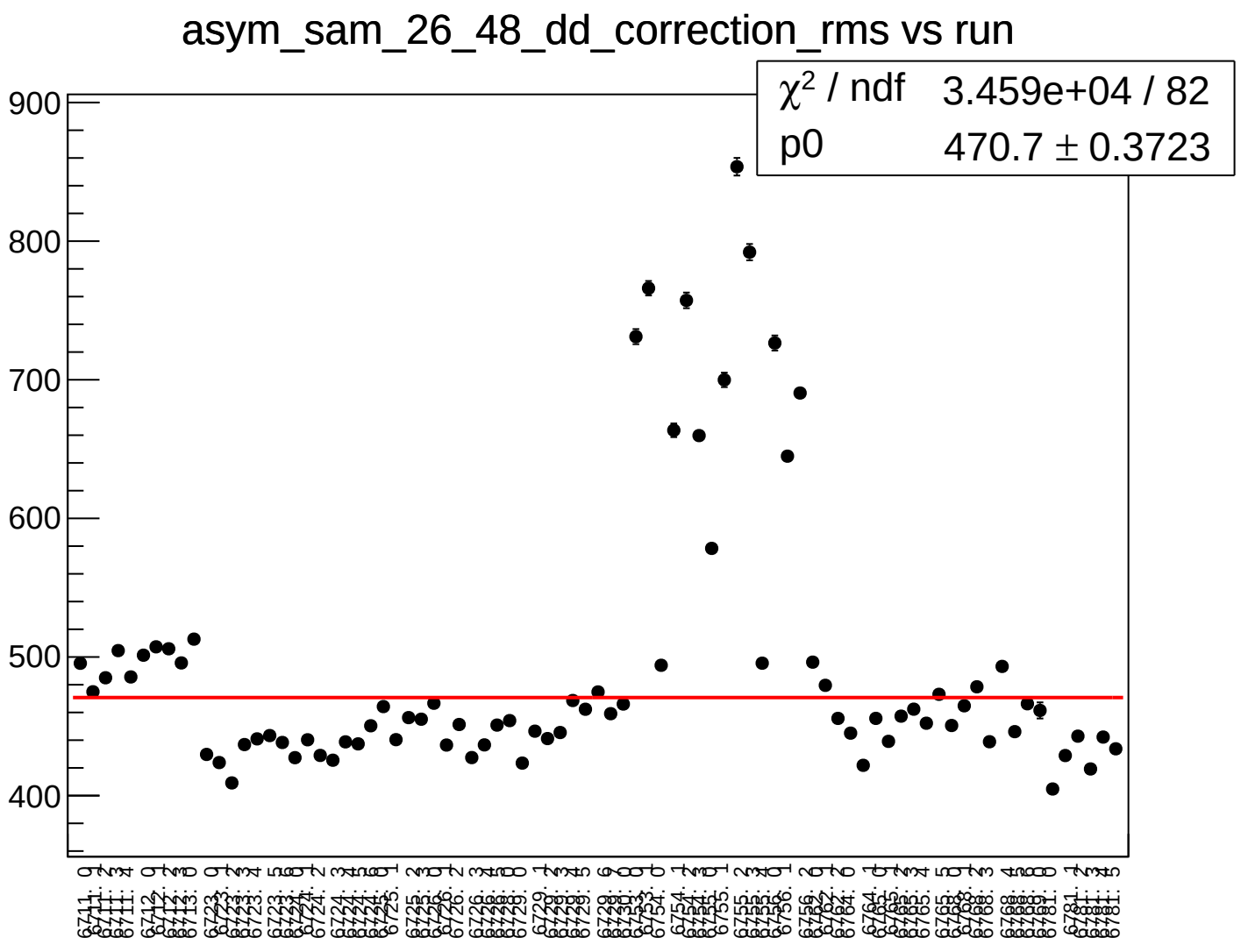

asym_sam_24_68_dd_rms vs run
χ² / ndf 7072 / 82
p0 956.4 ± 0.7499
1200
1150
1100
1050
1000
950
900
850
800

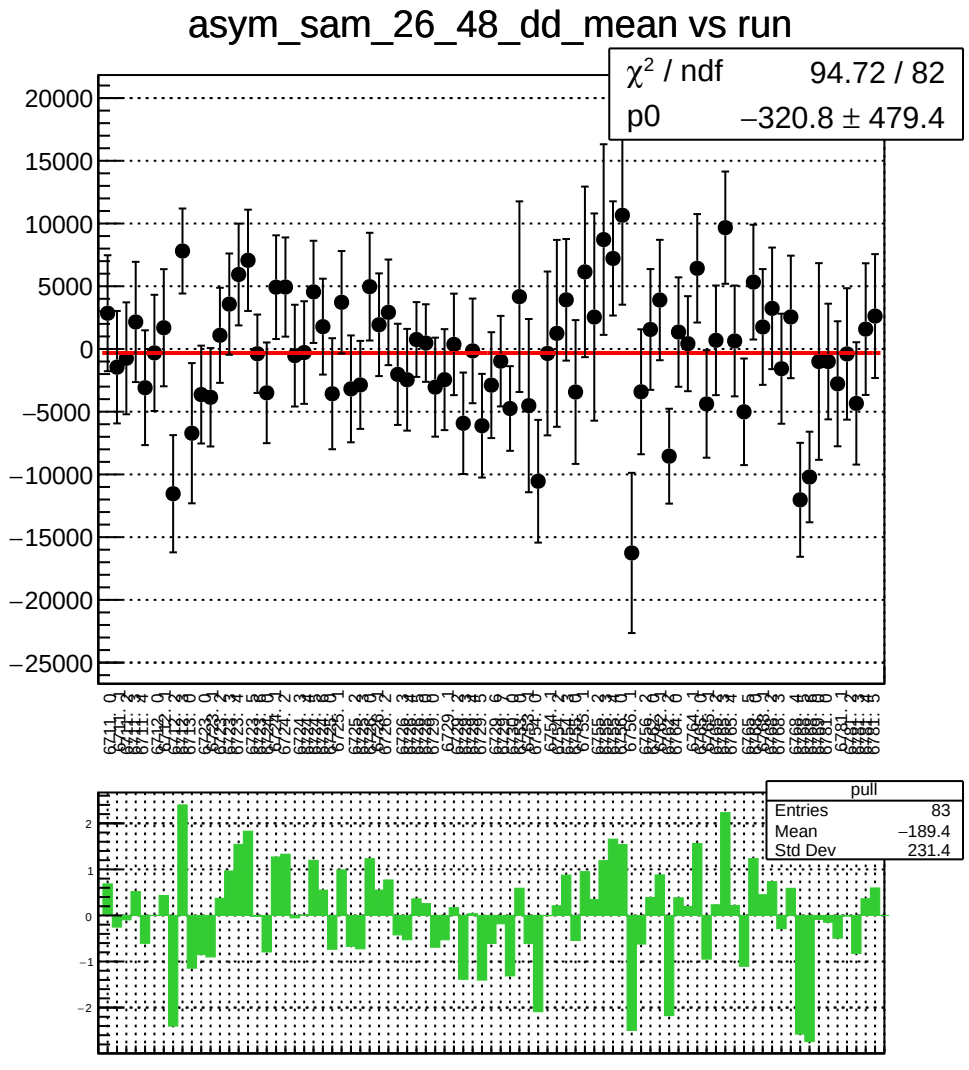

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 55.54 / 82
p0 88.55 ± 127.8
6000
4000
2000
0
−2000
−4000
pull
Entries 83
Mean −71.82
Std Dev 117
2
1
0
−1
−2
pull1D
Entries 83
Mean 0.0266
Std Dev 0.8176
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

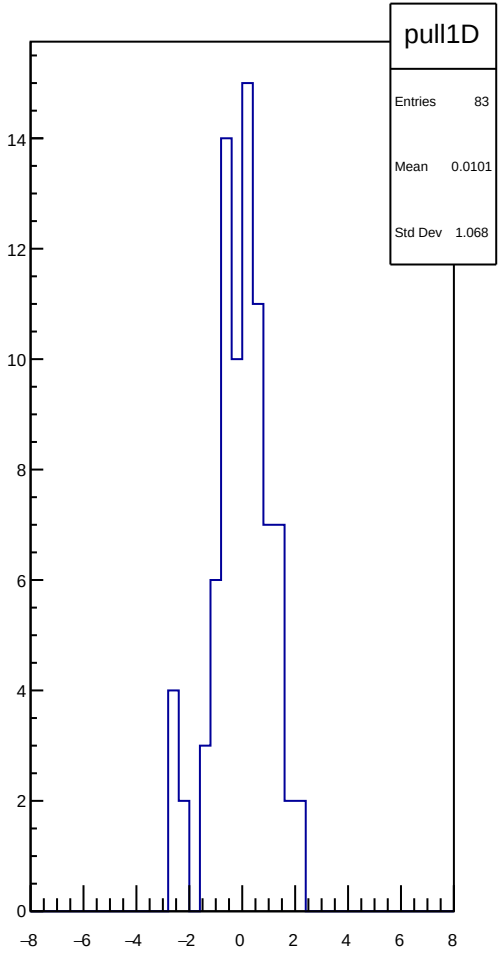

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.674e+04 / 82
p0 114.5 ± 0.09034
160
150
140
130
120
110
100
90

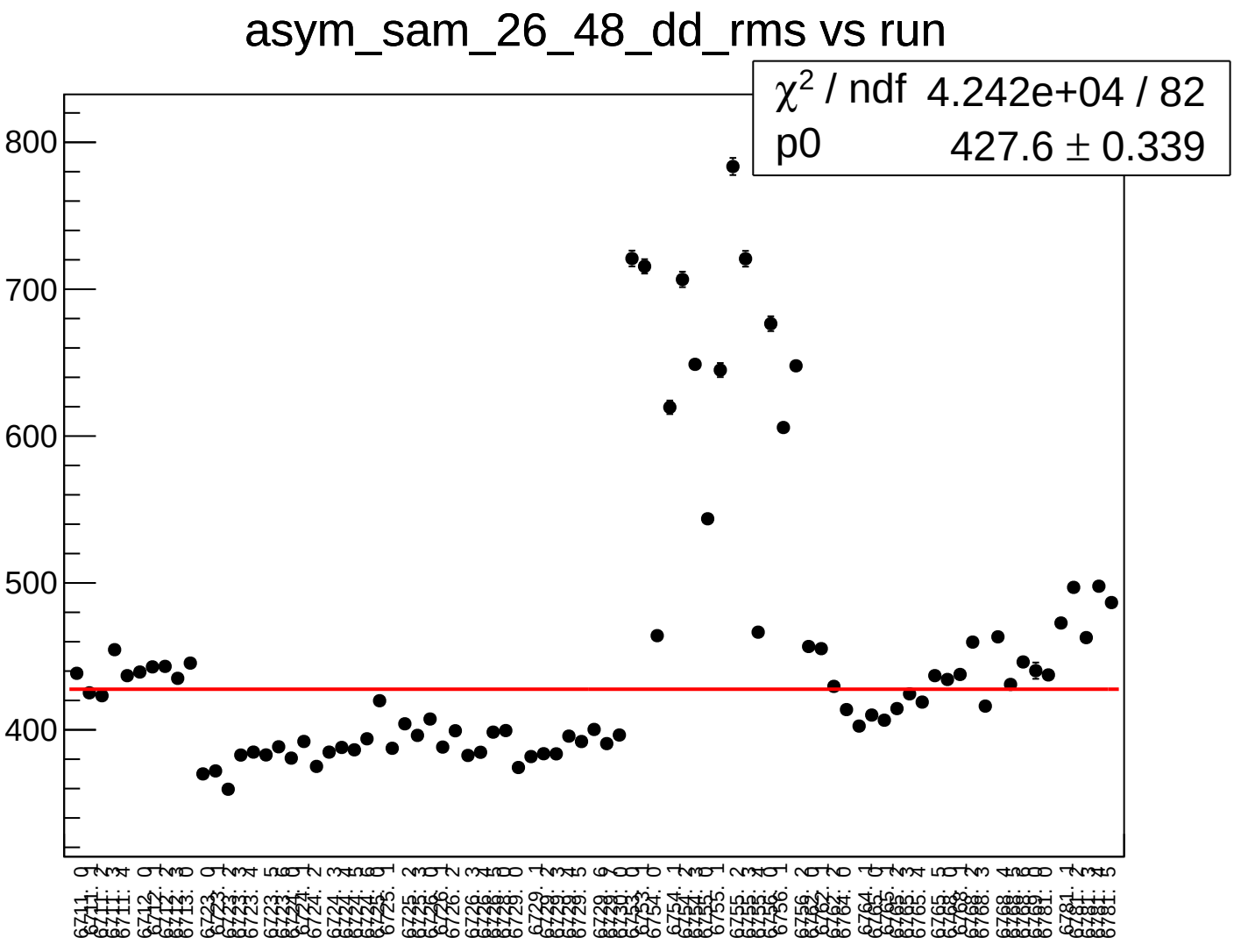

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 87.95 / 82
p0 462.7 ± 526.4
20000
10000
0
−10000
−20000
pull
Entries 83
Mean −124.2
Std Dev 163.7
2
1
0
−1
−2

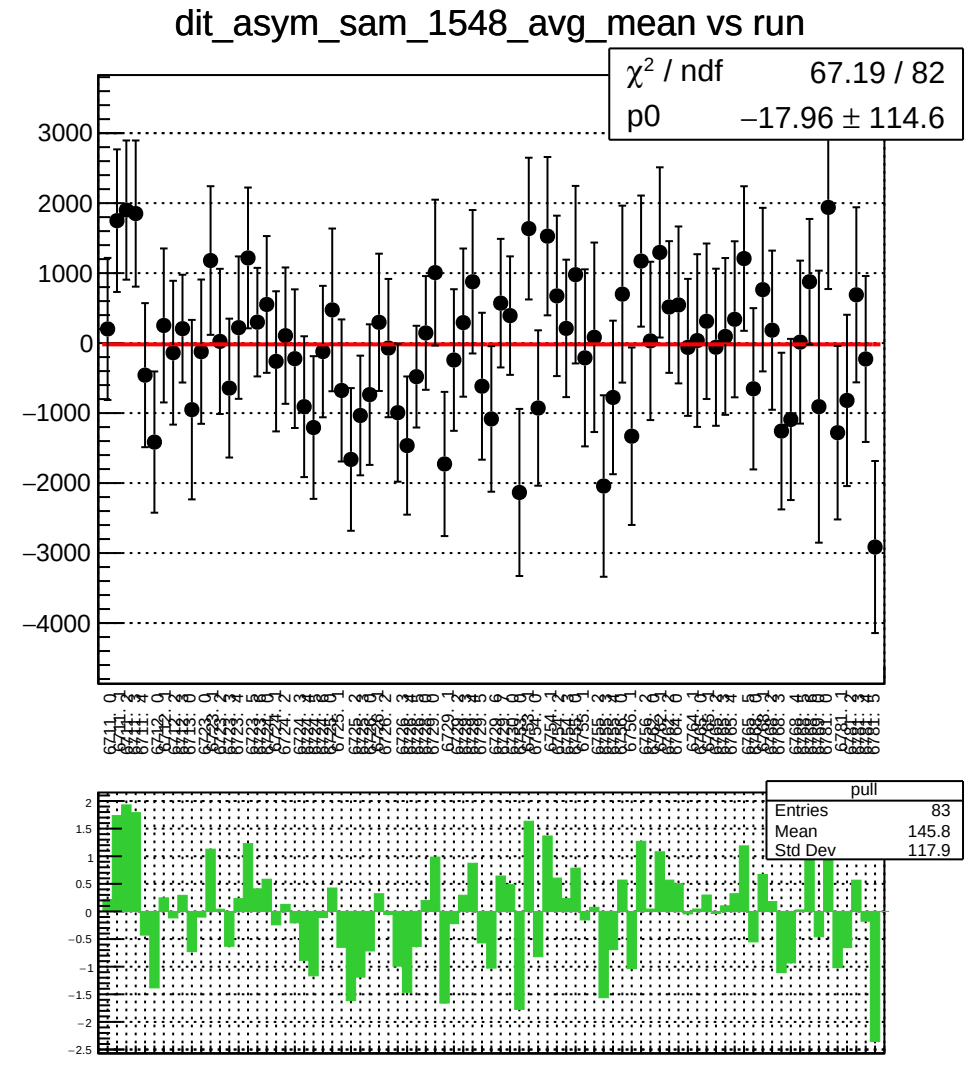

pull1D
Entries 83
Mean −0.008482
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

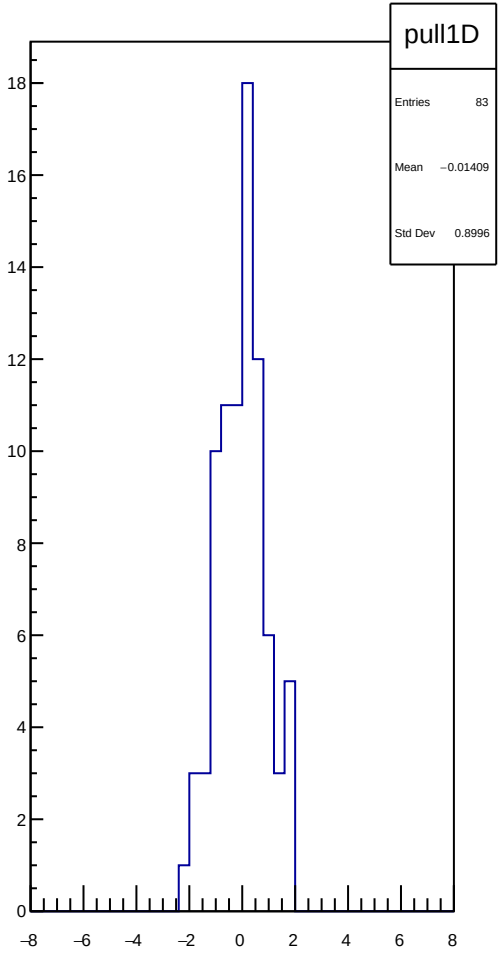

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 3.459e+04 / 82
p0 470.7 ± 0.3723
900
800
700
600
500
400

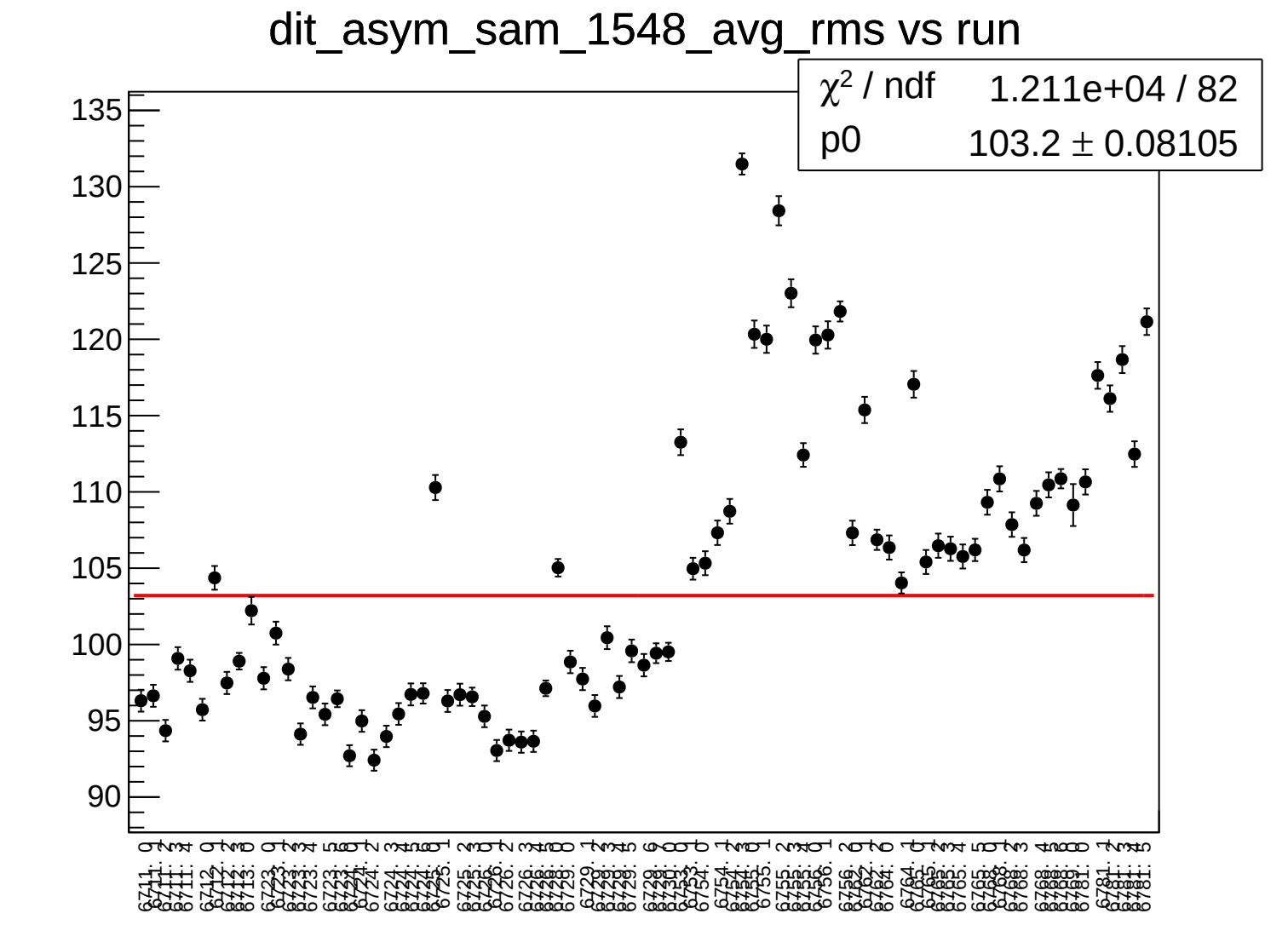

asym_sam_26_48_dd_mean vs run
χ² / ndf 94.72 / 82
p0 −320.8 ± 479.4
pull
Entries 83
Mean −189.4
Std Dev 231.4

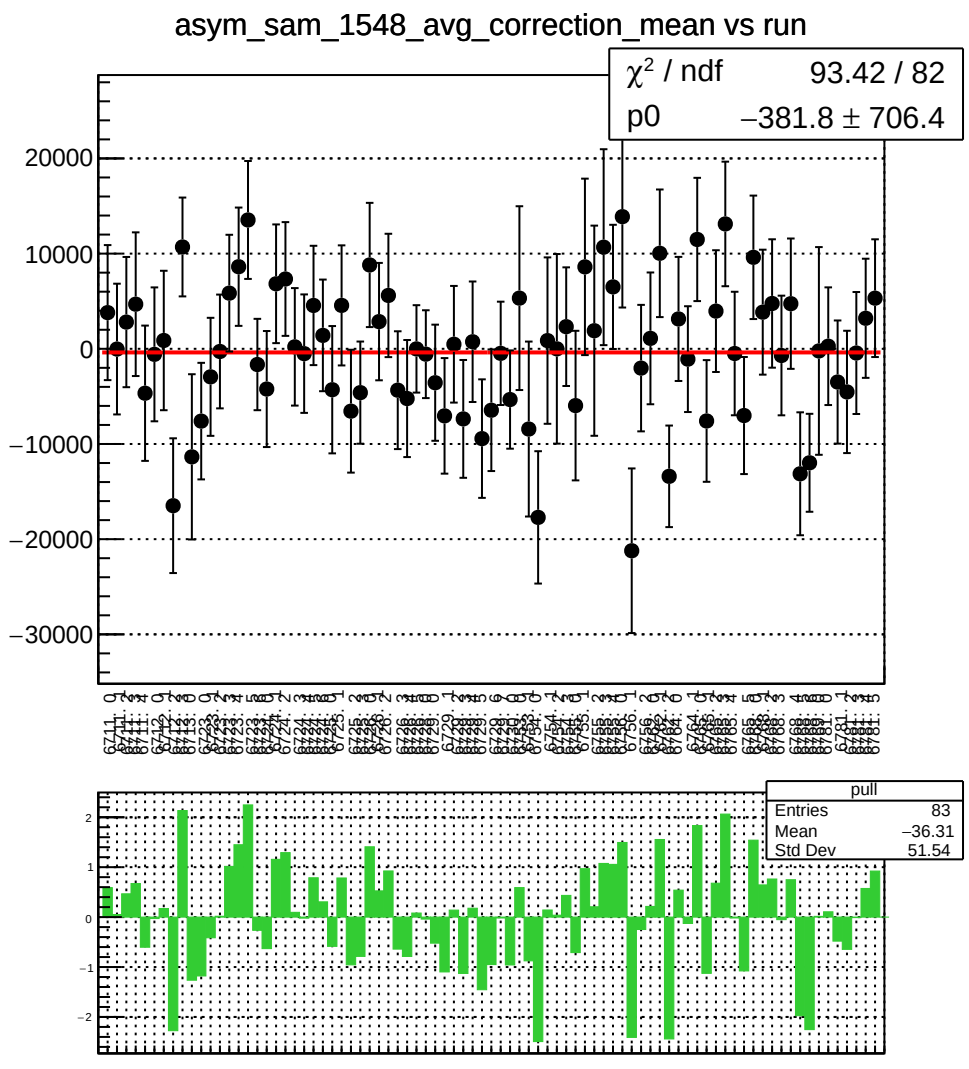

pull1D
Entries 83
Mean 0.0101
Std Dev 1.068

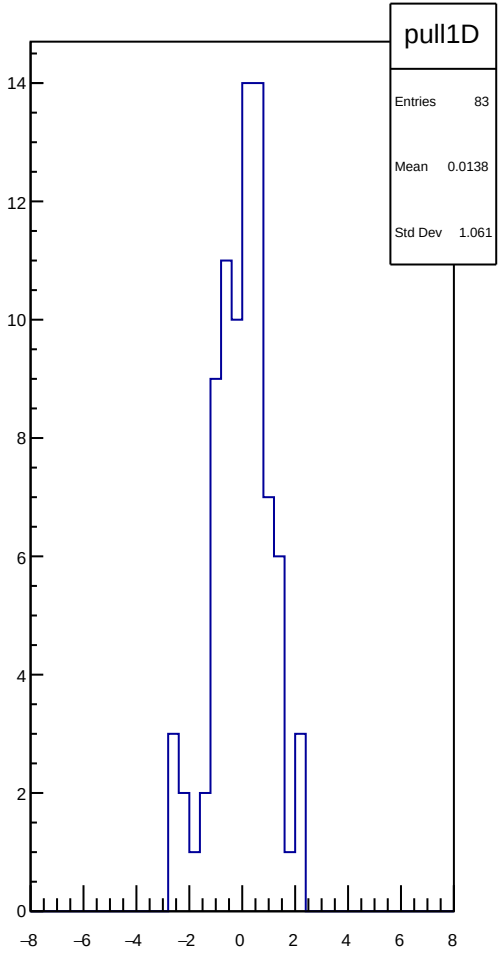

asym_sam_26_48_dd_rms vs run
χ^2 / ndf 4.242e+04 / 82
p0 427.6 ± 0.339
800
700
600
500
400

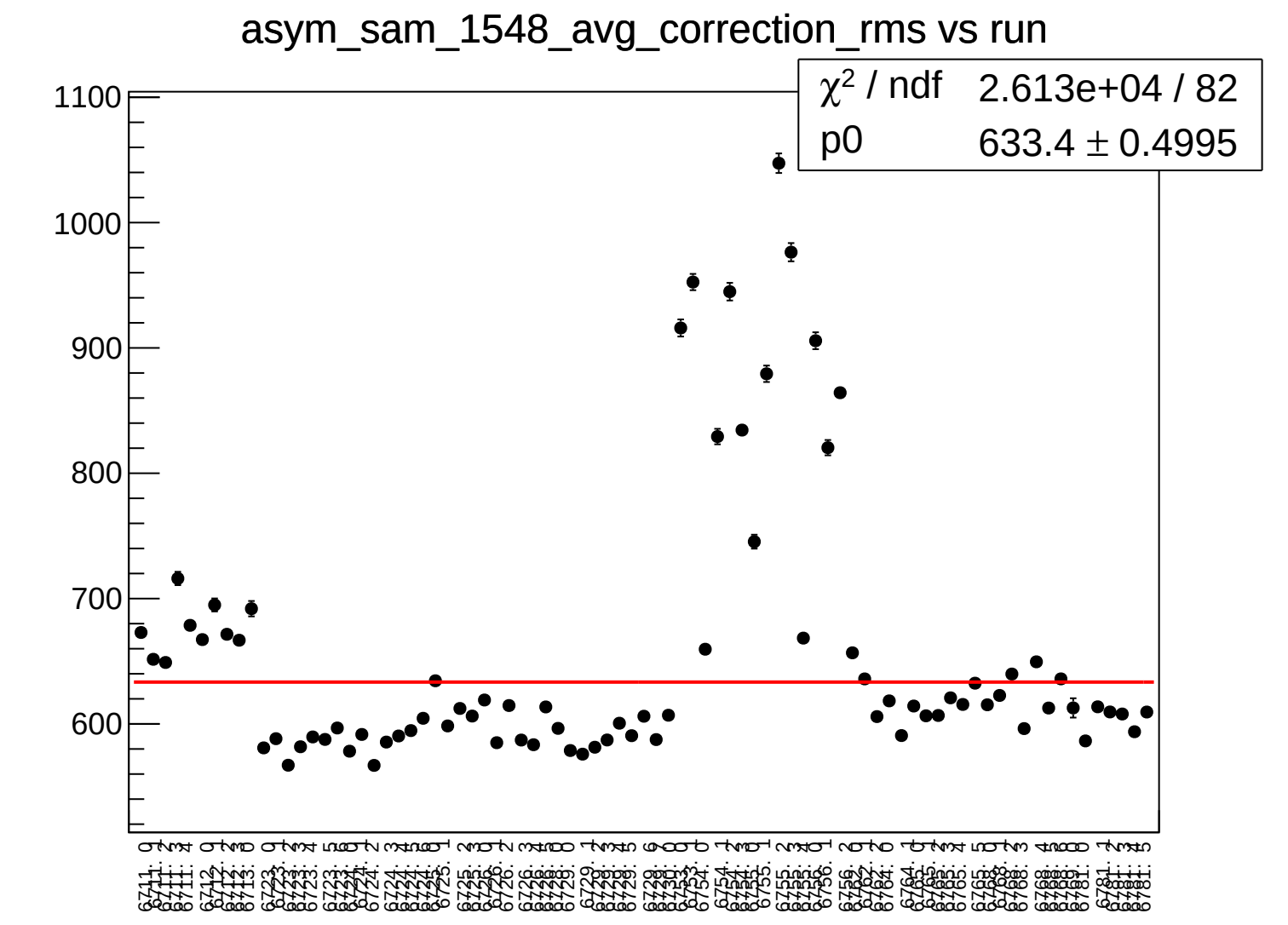

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 67.19 / 82
p0 −17.96 ± 114.6
pull
Entries 83
Mean 145.8
Std Dev 117.9

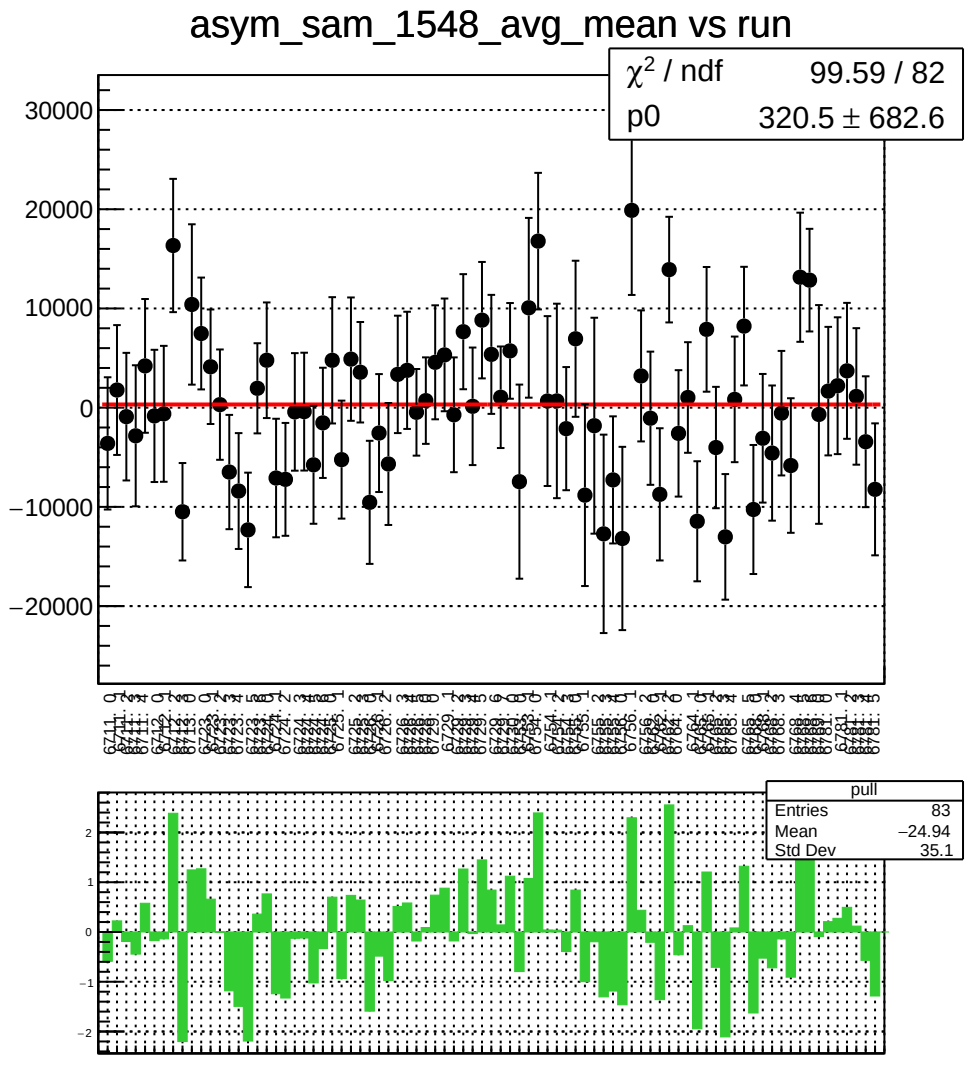

pull1D
Entries 83
Mean −0.01409
Std Dev 0.8996

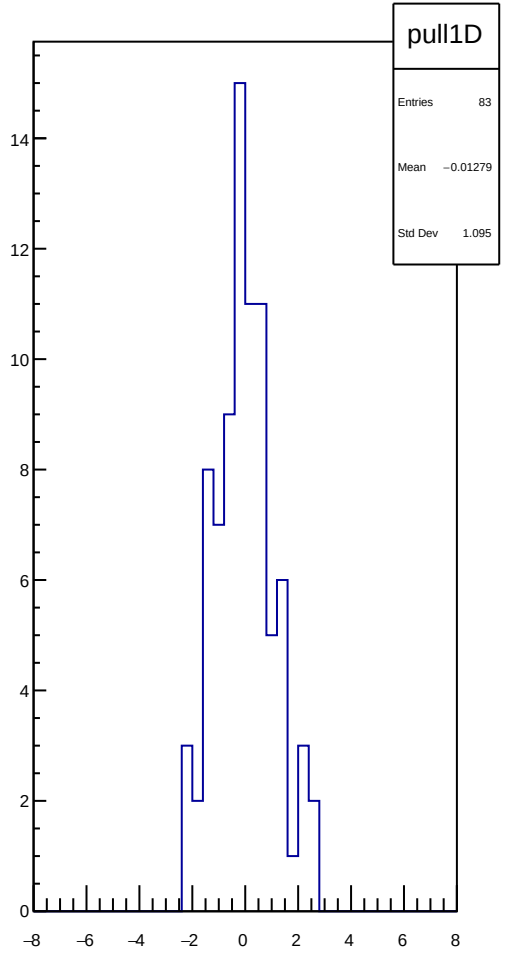

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.211e+04 / 82
p0 103.2 ± 0.08105
135
130
125
120
115
110
105
100
95
90

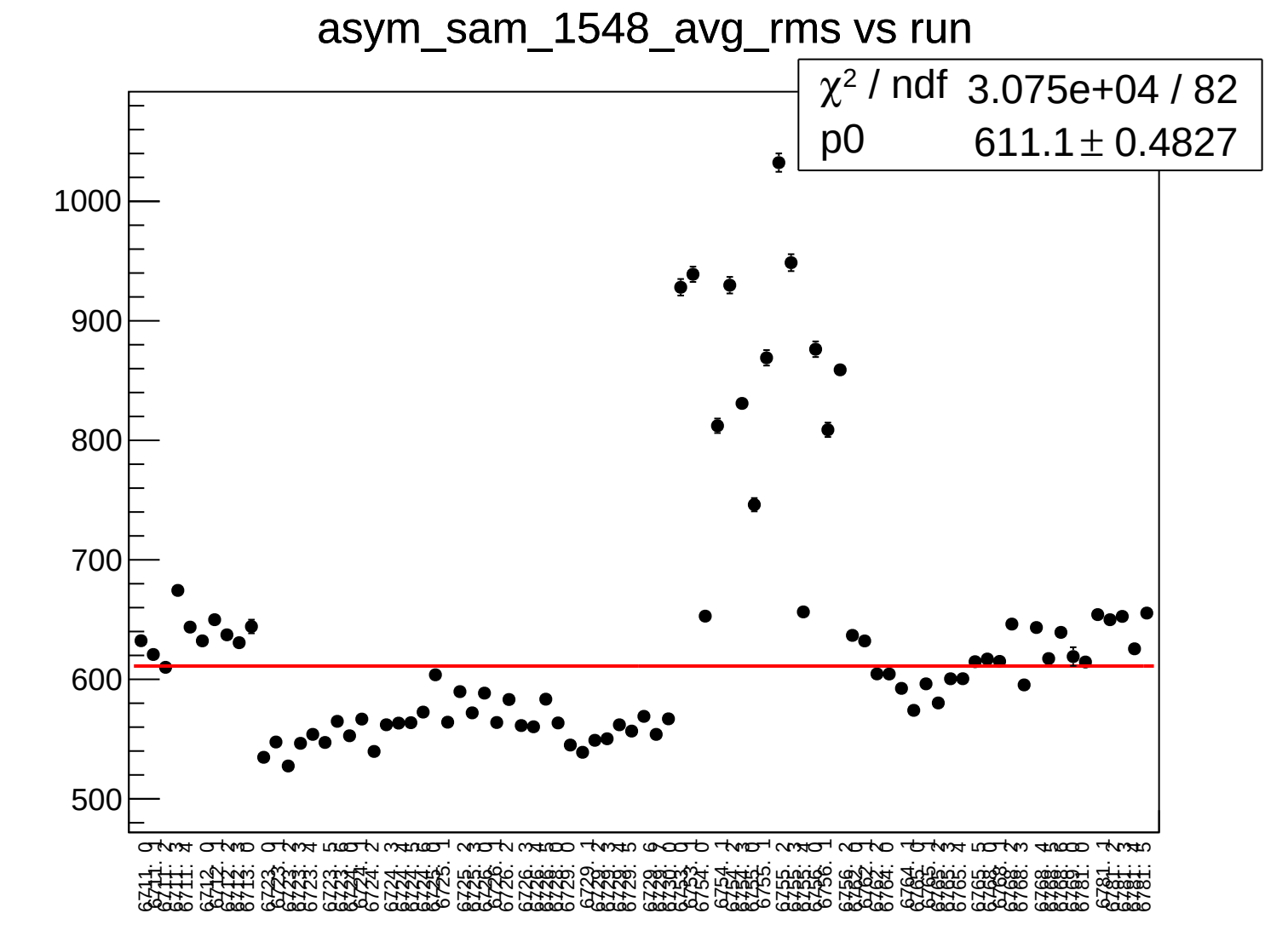

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 93.42 / 82
p0 −381.8 ± 706.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean −36.31
Std Dev 51.54
2
1
0
−1
−2

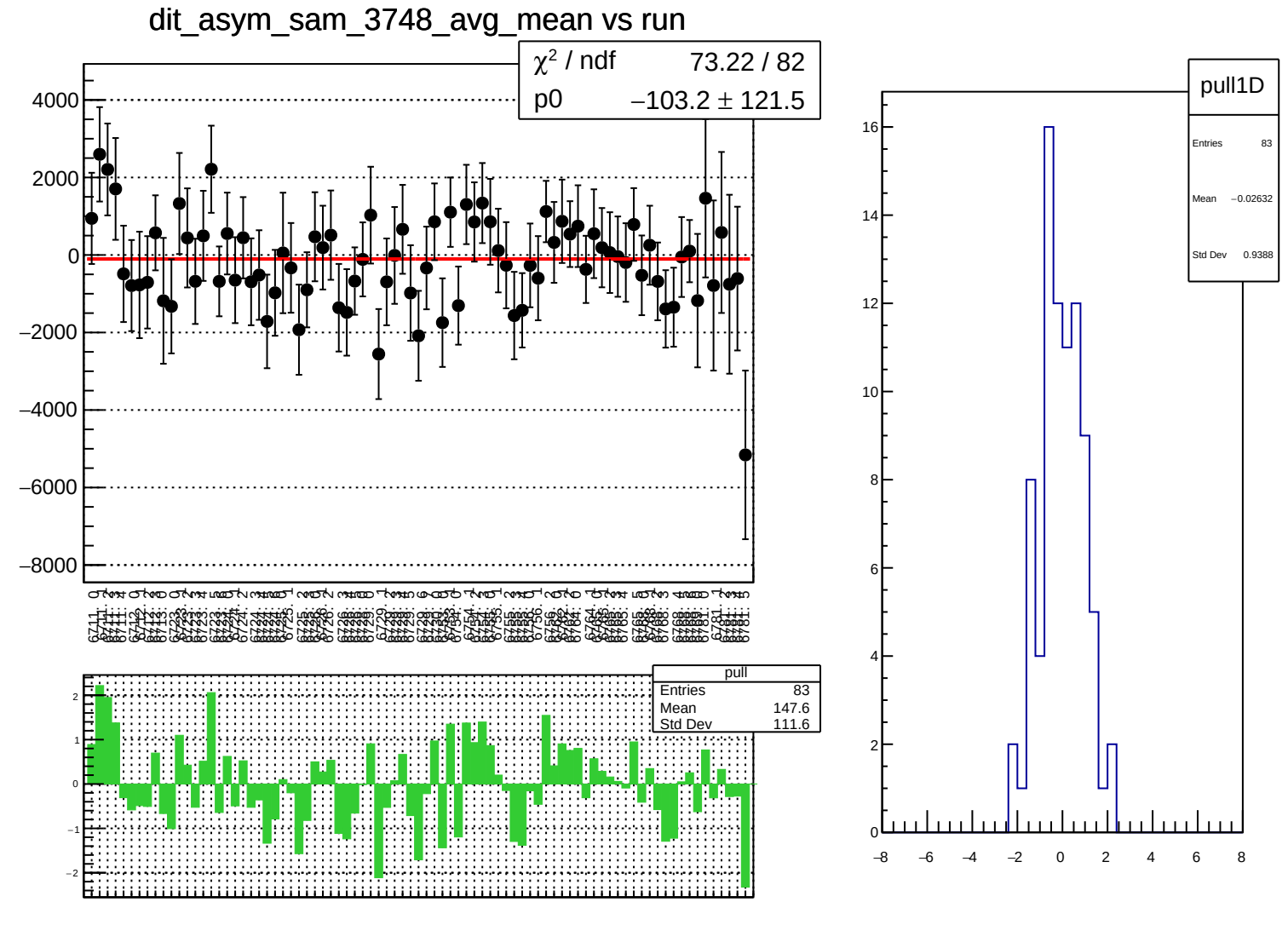

pull1D
Entries 83
Mean 0.0138
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

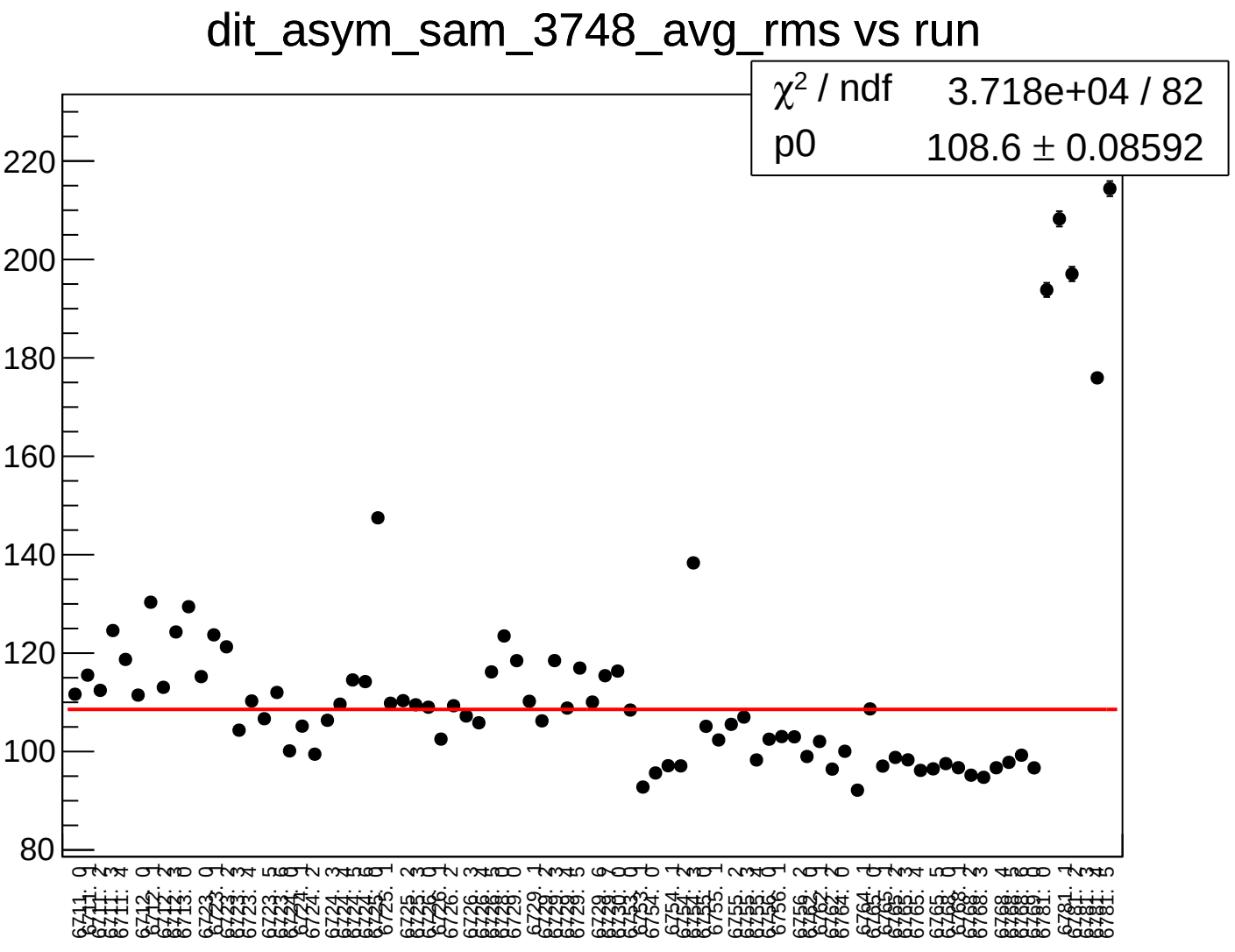

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 2.613e+04 / 82
p0 633.4 ± 0.4995
1100
1000
900
800
700
600

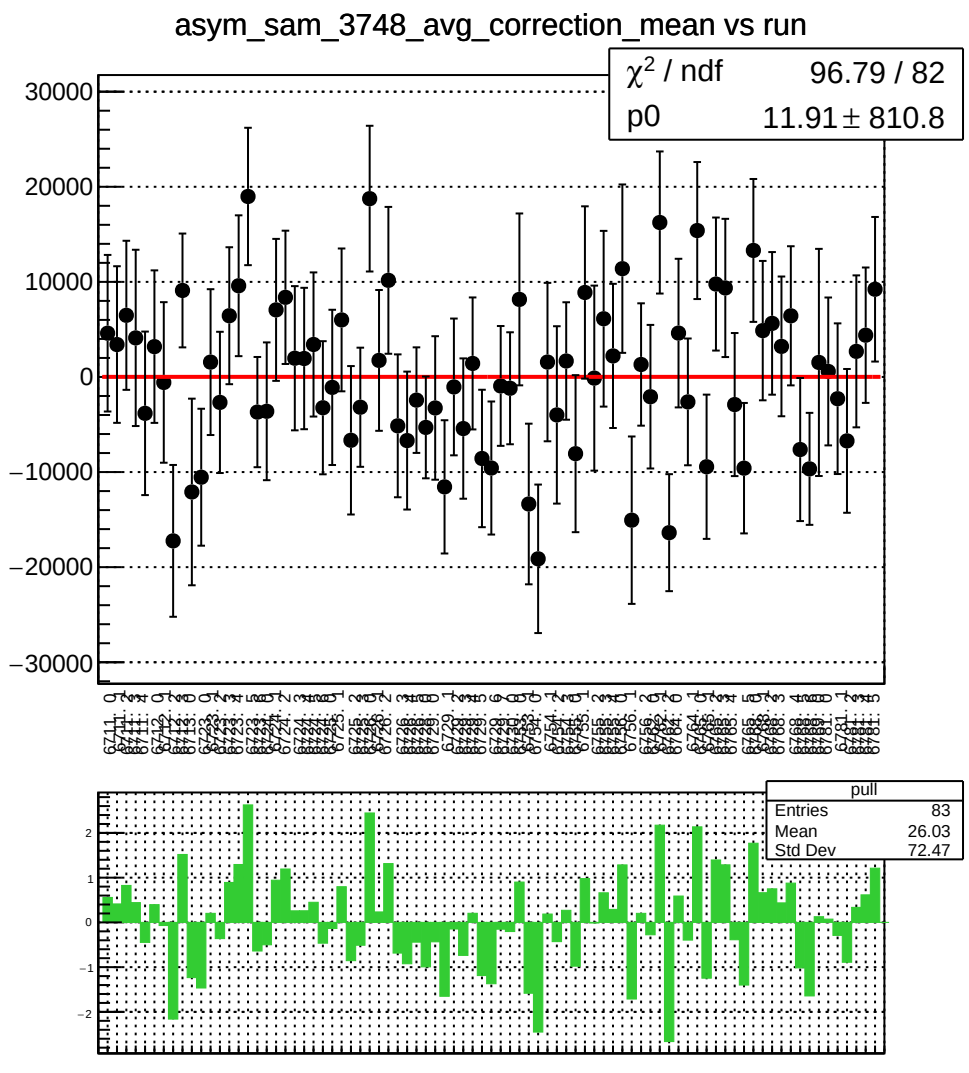

asym_sam_1548_avg_mean vs run
χ² / ndf 99.59 / 82
p0 320.5 ± 682.6
pull
Entries 83
Mean −24.94
Std Dev 35.1

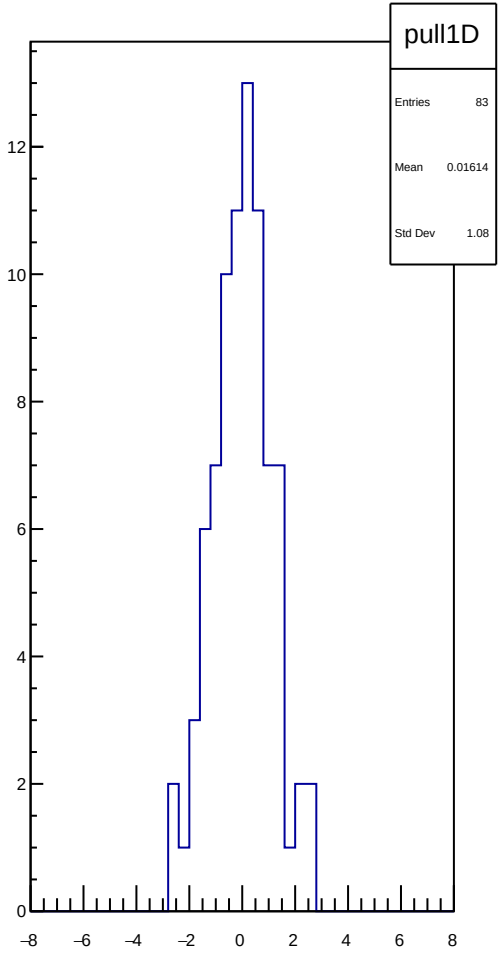

pull1D
Entries 83
Mean −0.01279
Std Dev 1.095

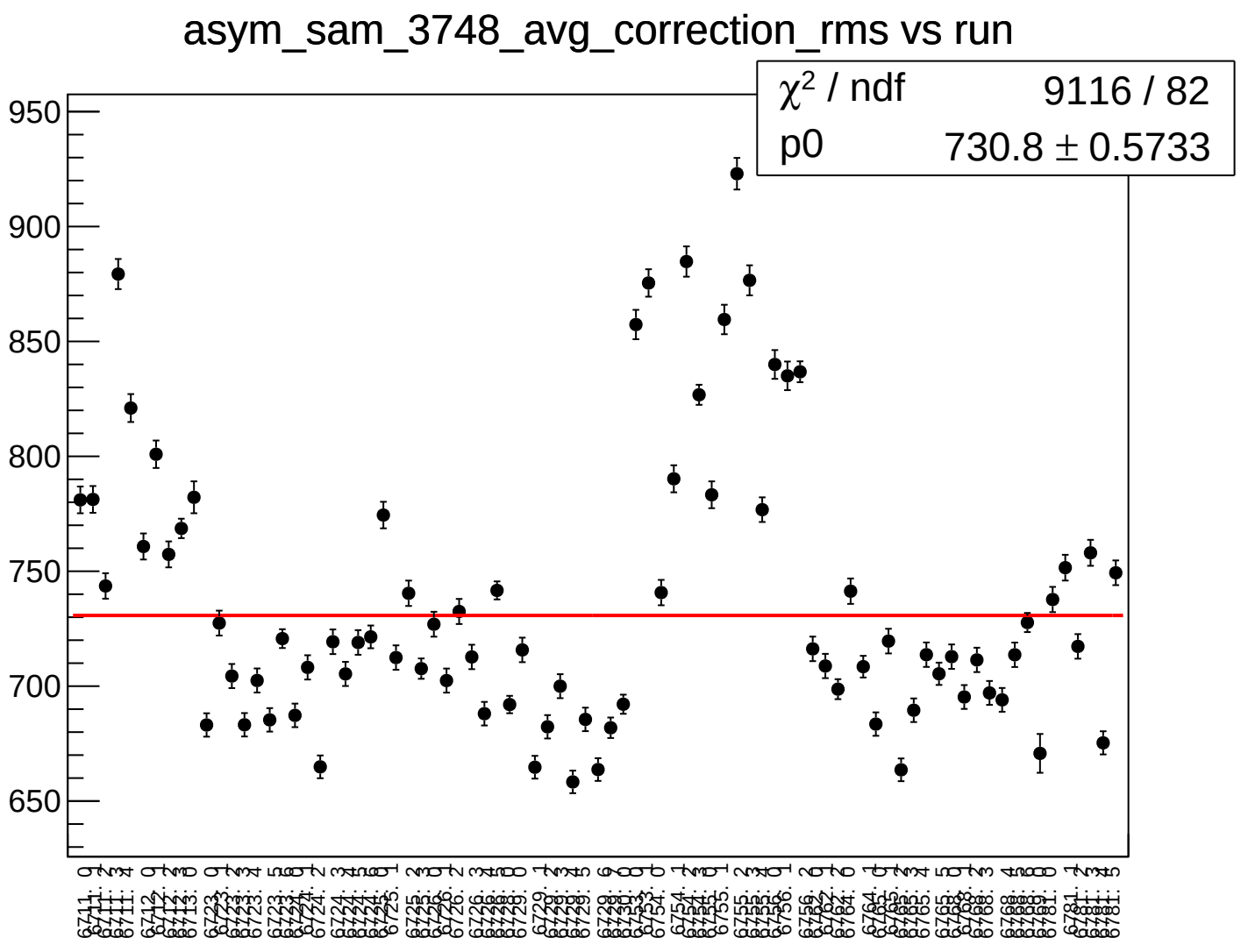

asym_sam_1548_avg_rms vs run
χ² / ndf 3.075e+04 / 82
p0 611.1 ± 0.4827
1000
900
800
700
600
500

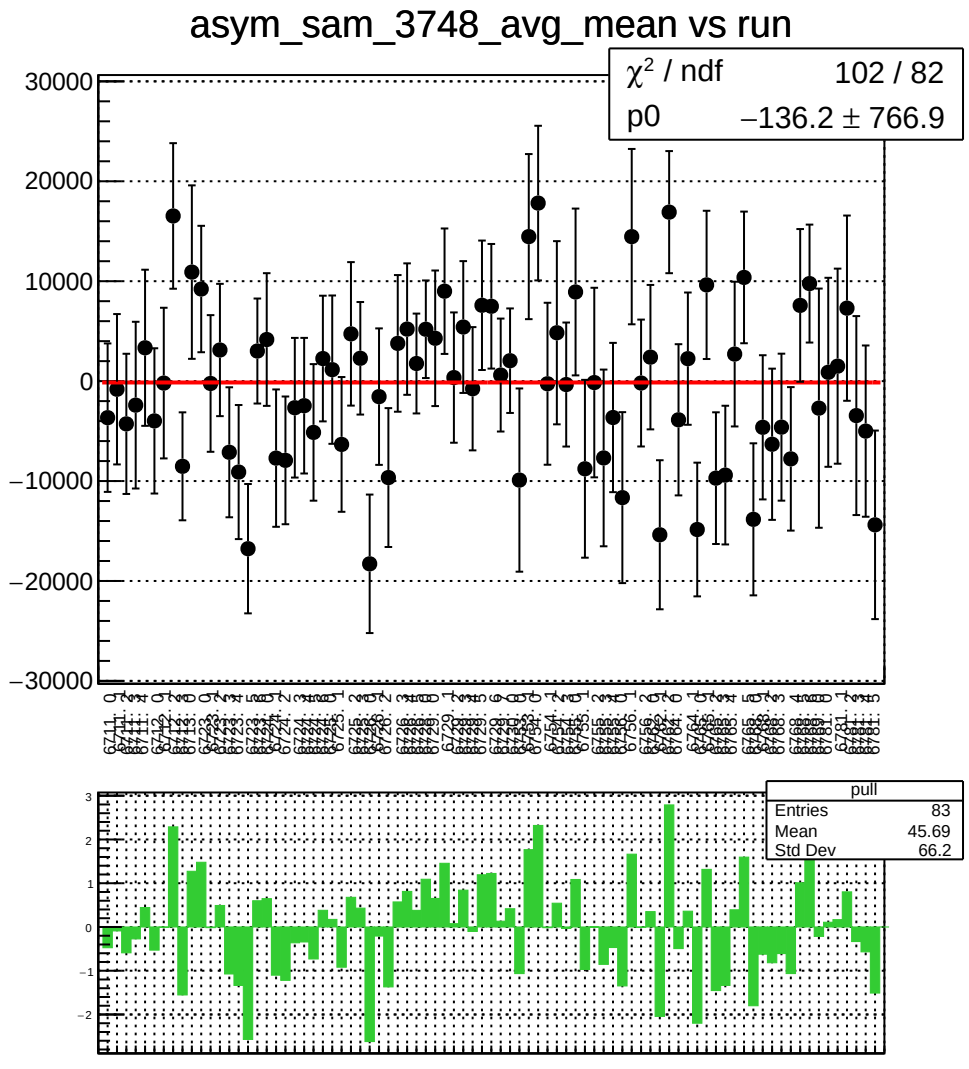

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 73.22 / 82
p0 −103.2 ± 121.5
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 83
Mean 147.6
Std Dev 111.6
pull1D
Entries 83
Mean −0.02632
Std Dev 0.9388
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

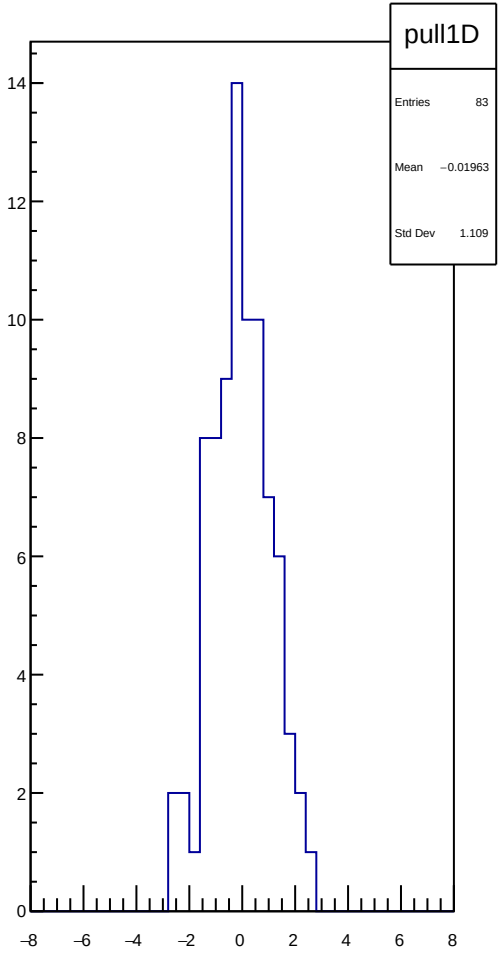

dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 3.718e+04 / 82
p0 108.6 ± 0.08592
220
200
180
160
140
120
100
80

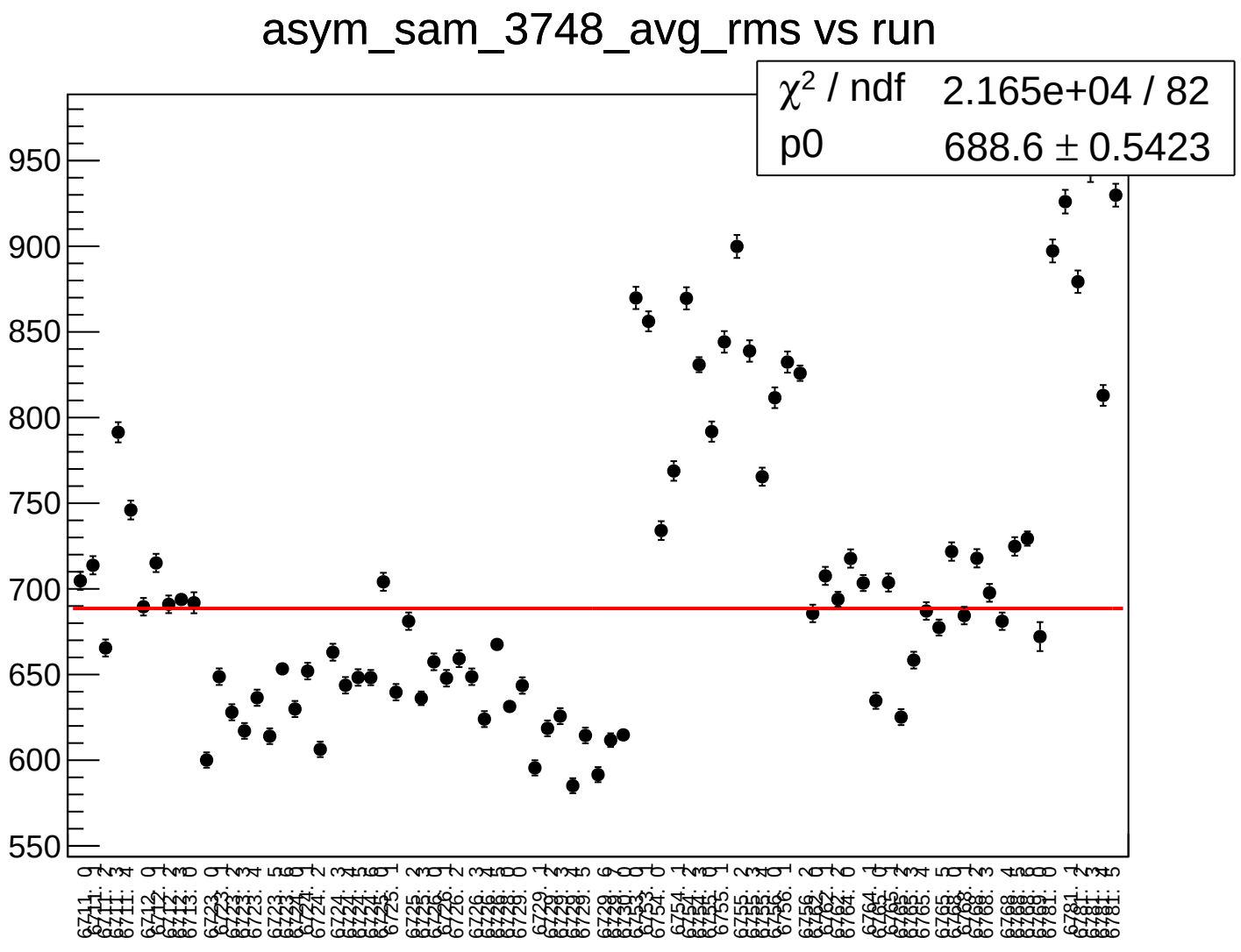

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 96.79 / 82
p0 11.91 ± 810.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 83
Mean 26.03
Std Dev 72.47
2
1
0
−1
−2

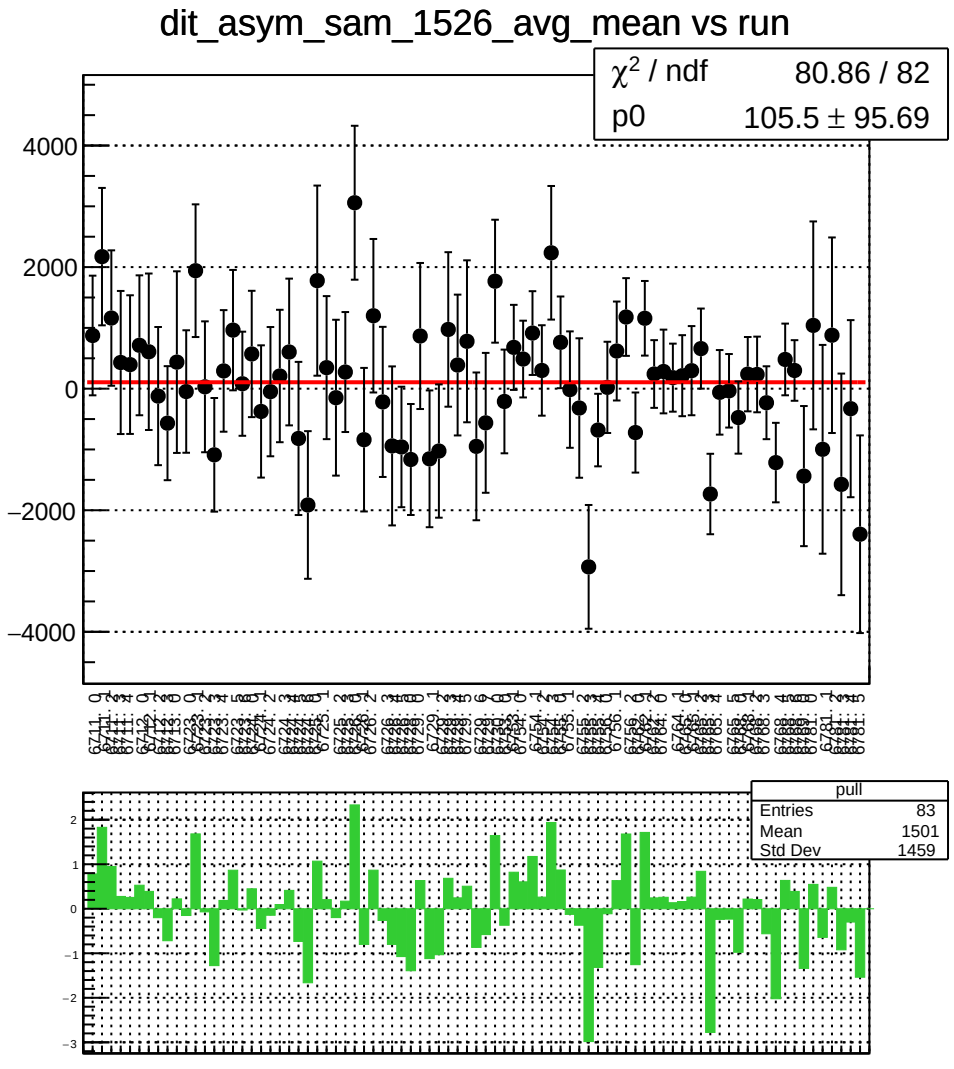

pull1D
Entries 83
Mean 0.01614
Std Dev 1.08
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

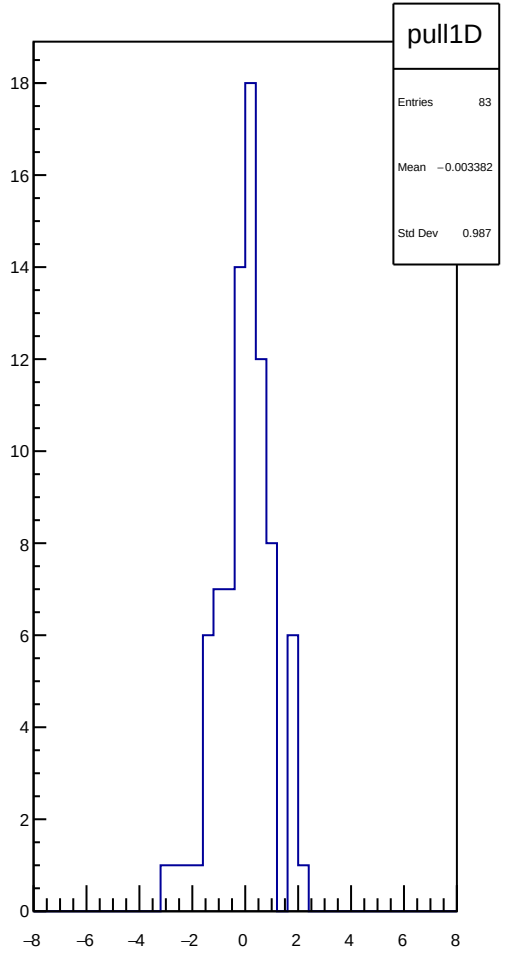

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 9116 / 82
p0 730.8 ± 0.5733
950
900
850
800
750
700
650

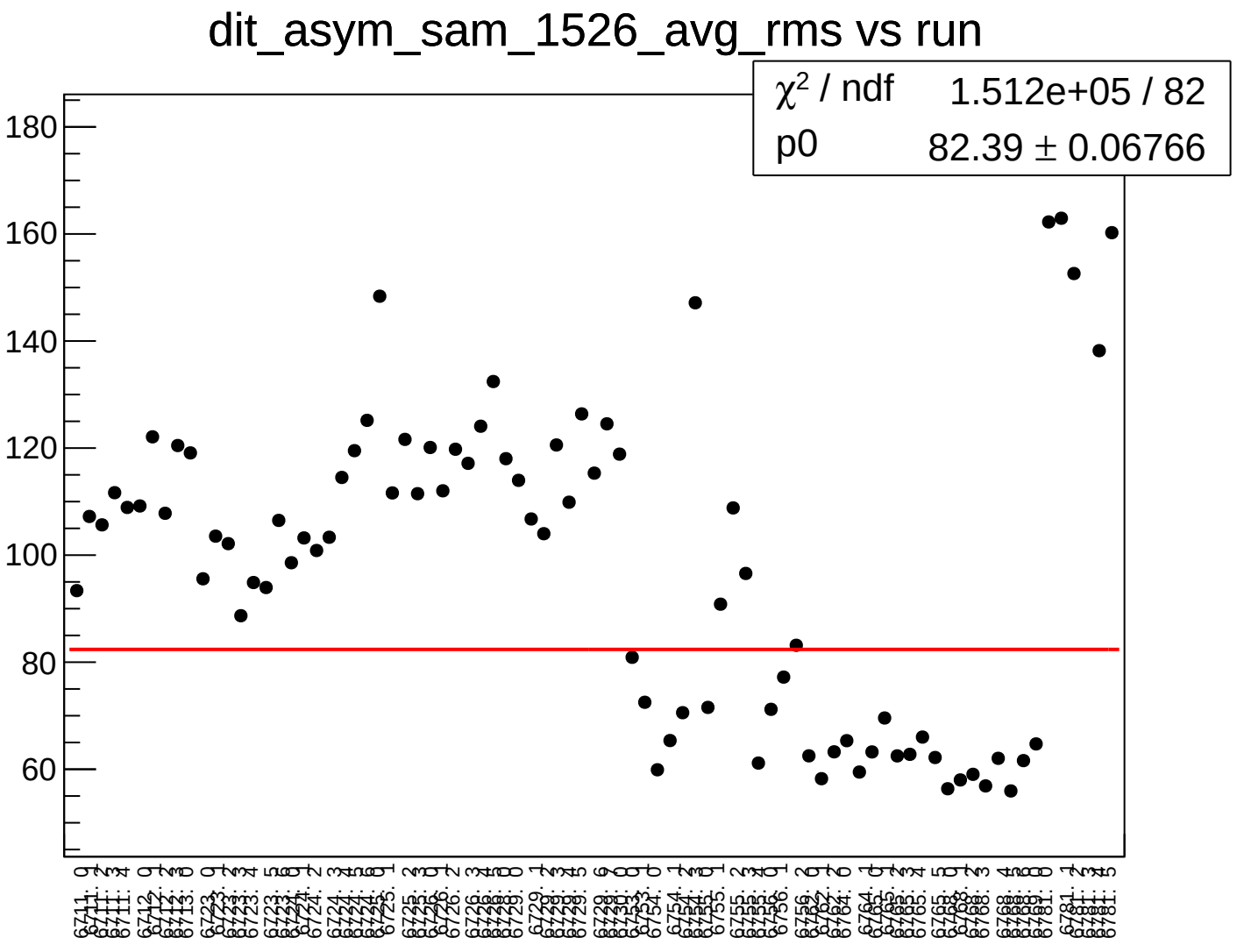

asym_sam_3748_avg_mean vs run
χ² / ndf 102 / 82
p0 −136.2 ± 766.9
pull
Entries 83
Mean 45.69
Std Dev 66.2

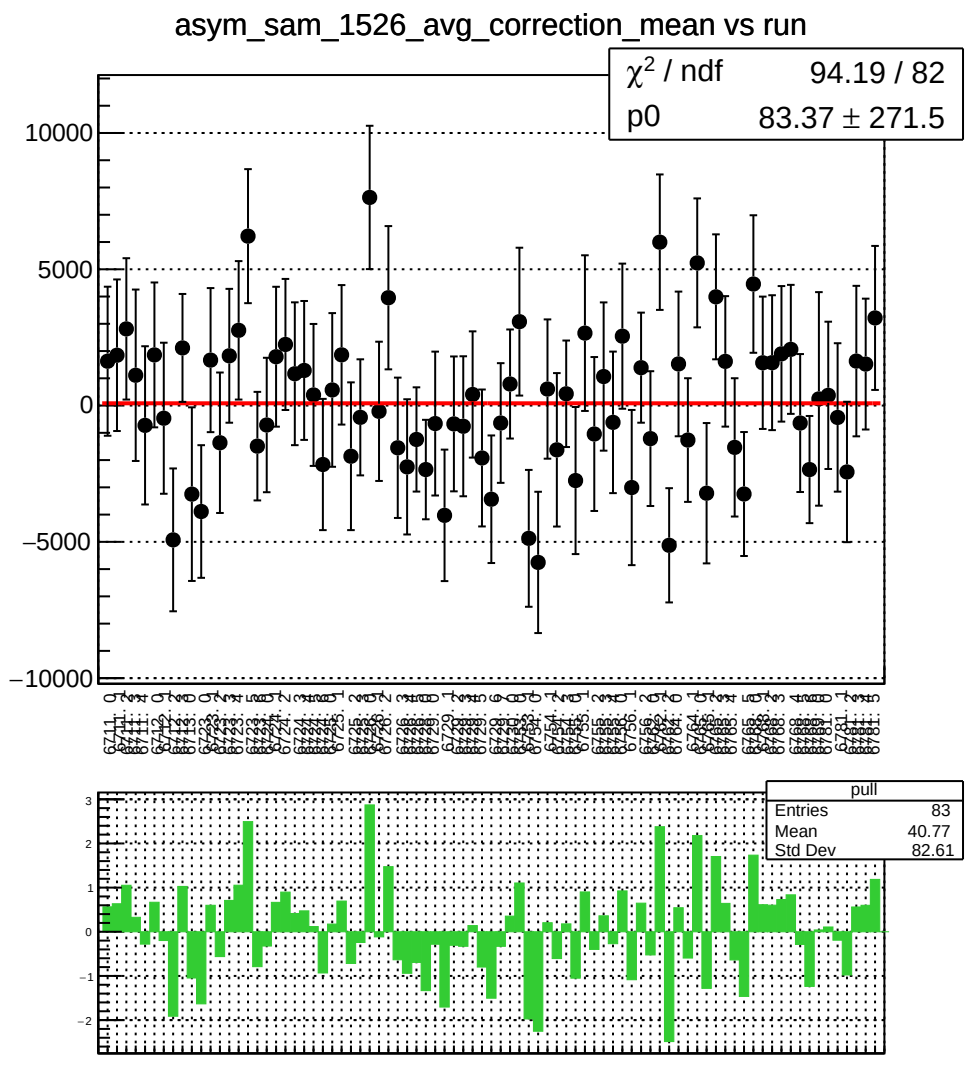

pull1D
Entries 83
Mean −0.01963
Std Dev 1.109

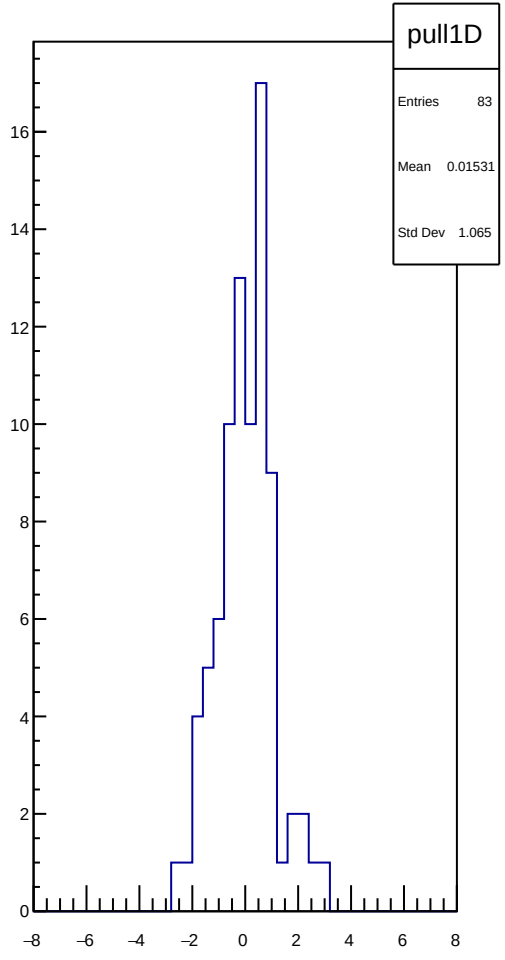

asym_sam_3748_avg_rms vs run
χ^2 / ndf 2.165e+04 / 82
p0 688.6 ± 0.5423
950
900
850
800
750
700
650
600
550

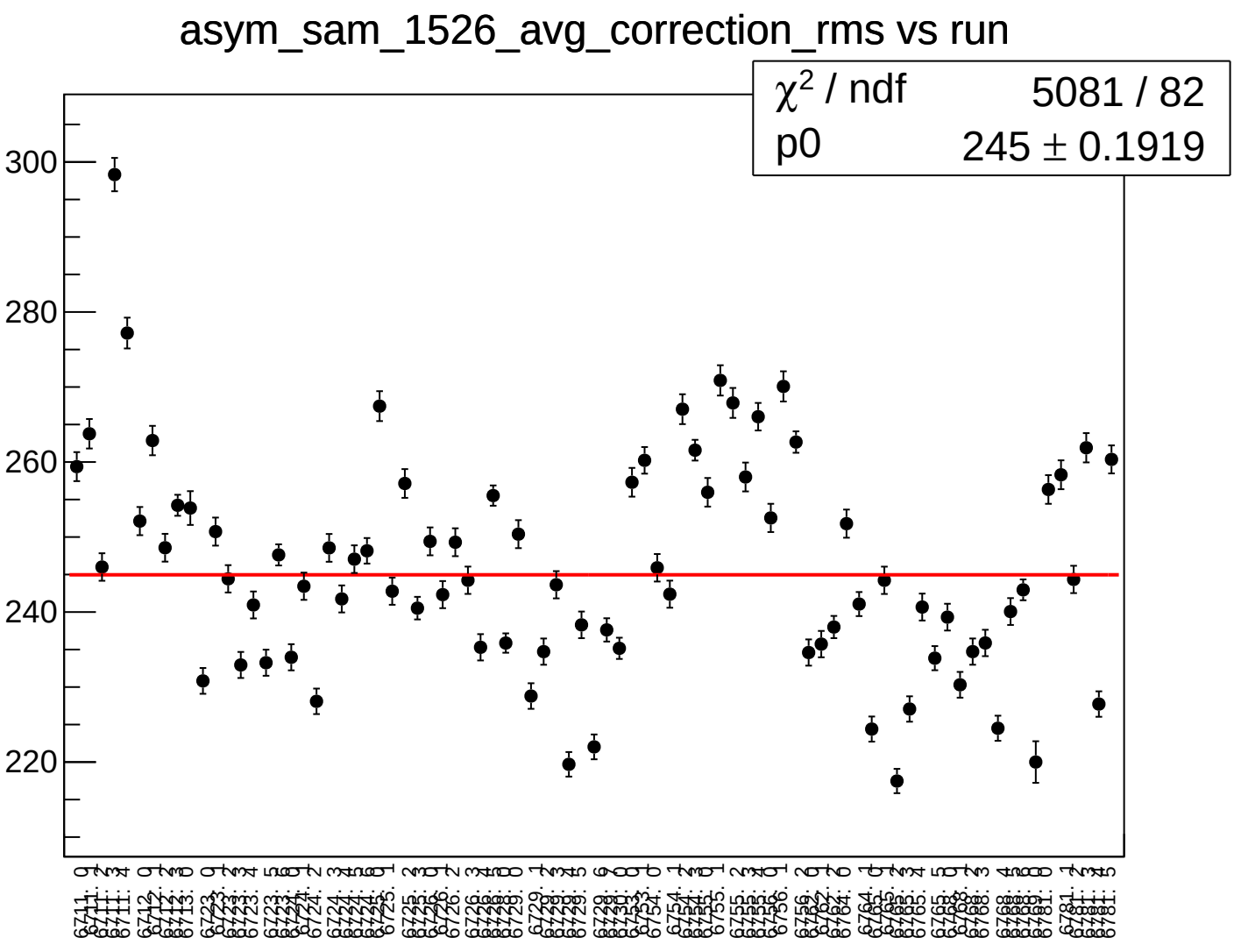

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 80.86 / 82
p0 105.5 ± 95.69
4000
2000
0
−2000
−4000
pull
Entries 83
Mean 1501
Std Dev 1459
2
1
0
−1
−2
−3

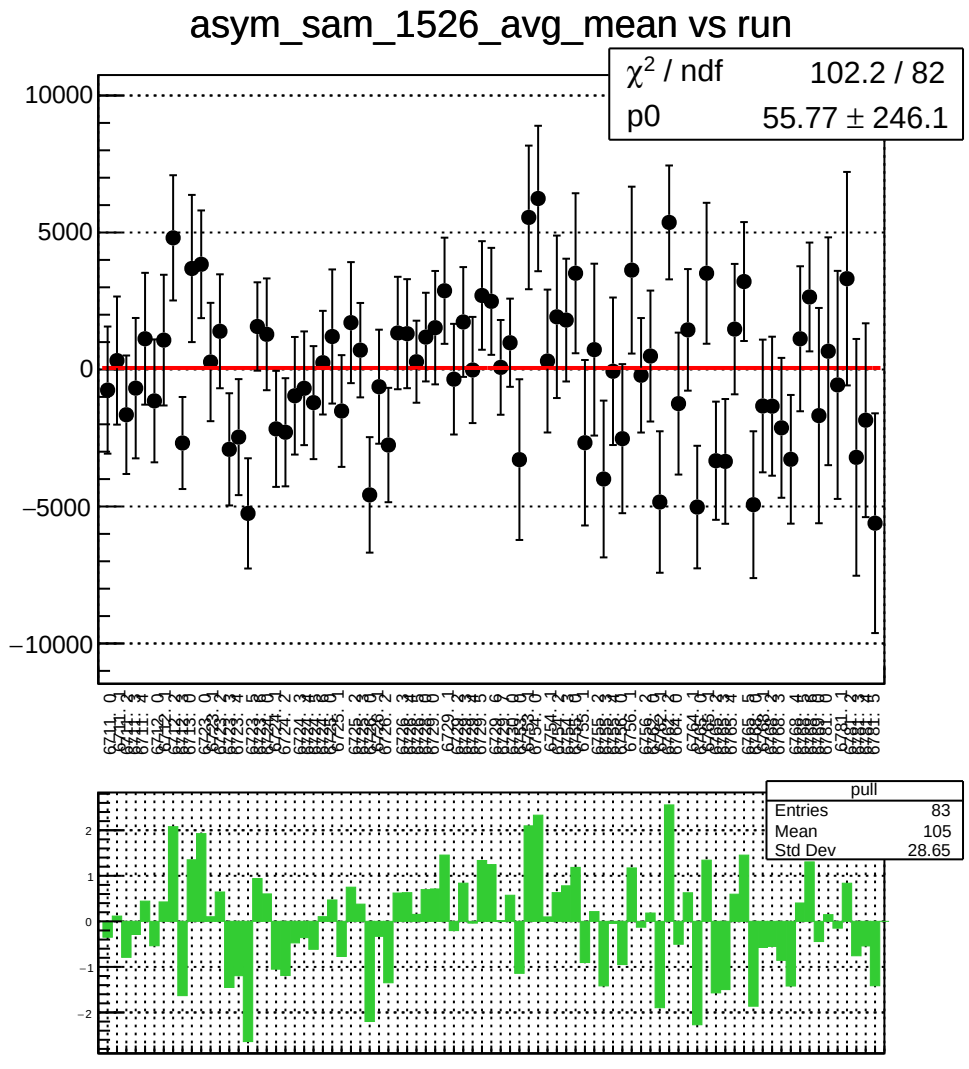

pull1D
Entries 83
Mean −0.003382
Std Dev 0.987
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

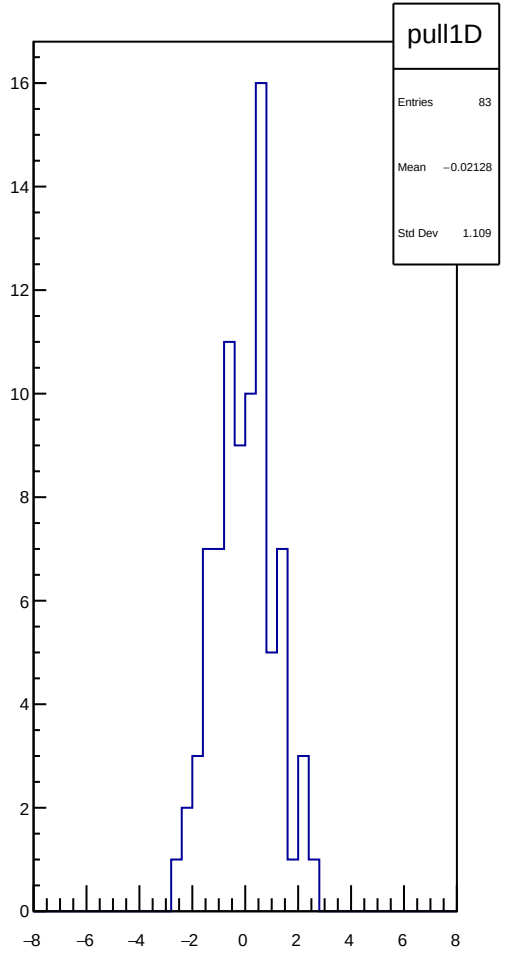

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.512e+05 / 82
p0 82.39 ± 0.06766
180
160
140
120
100
80
60

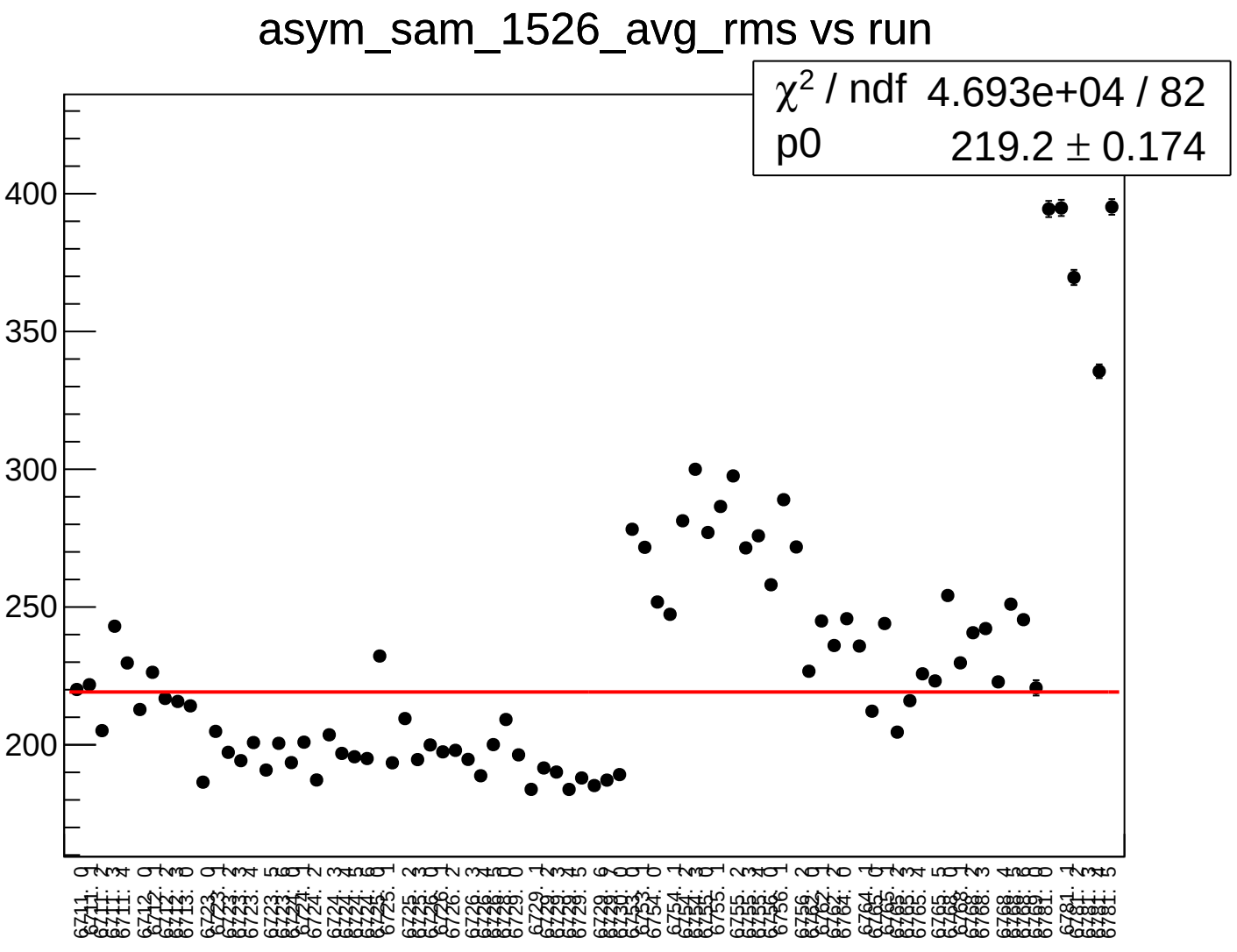

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 94.19 / 82
p0 83.37 ± 271.5
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 40.77
Std Dev 82.61
3
2
1
0
−1
−2

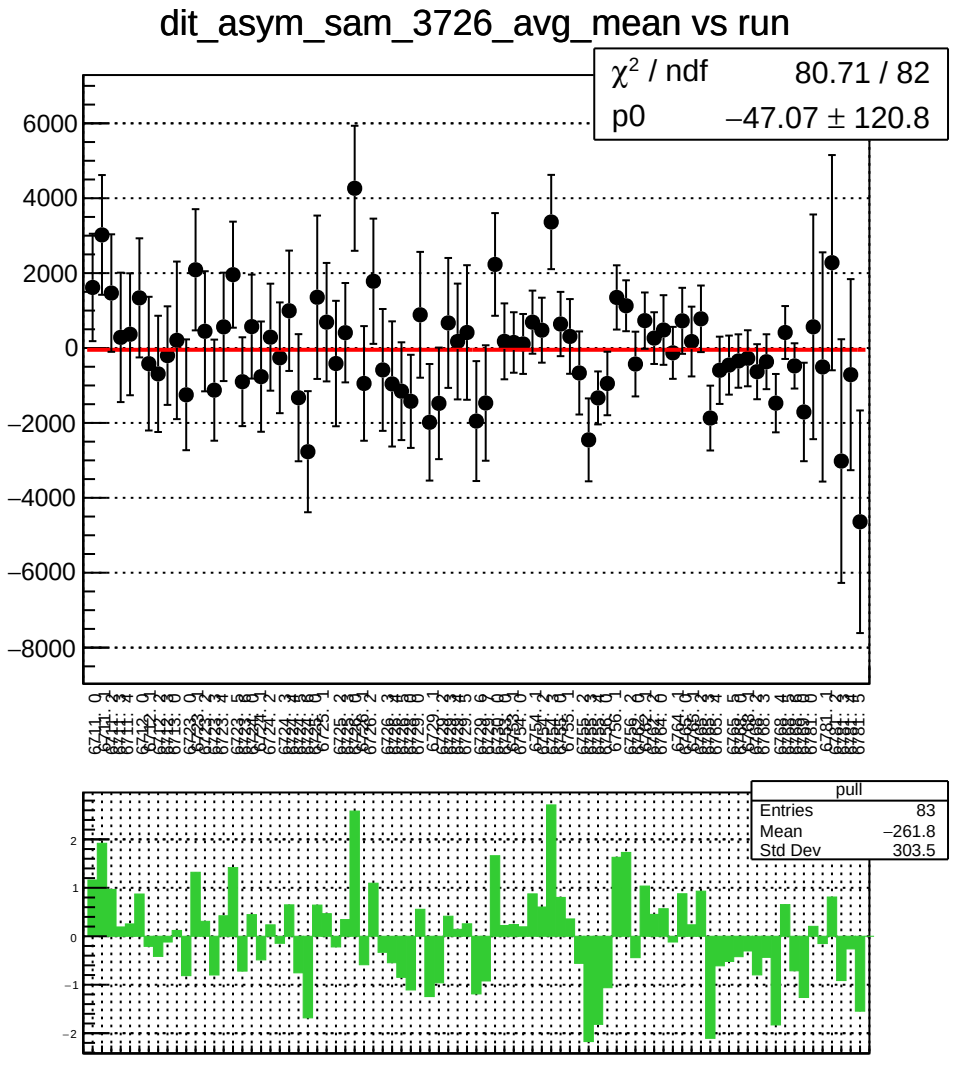

pull1D
Entries 83
Mean 0.01531
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

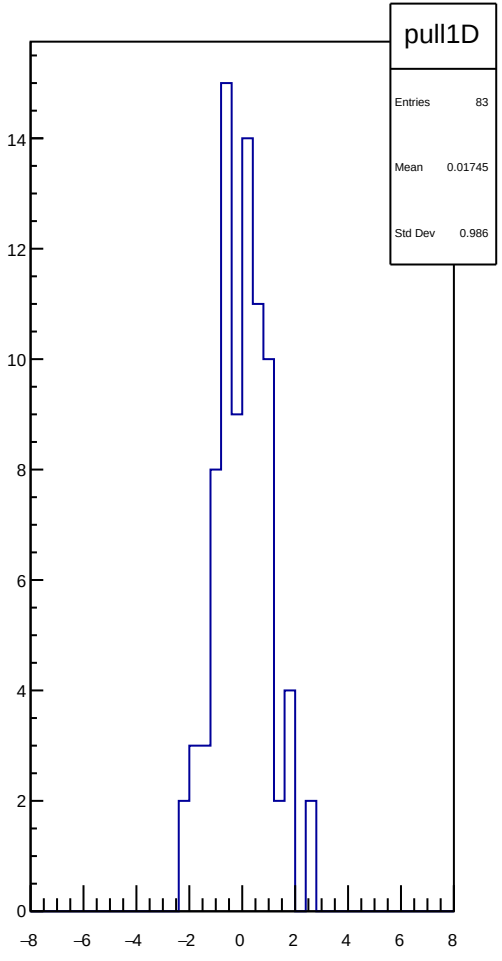

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 5081 / 82
p0 245 ± 0.1919
300
280
260
240
220

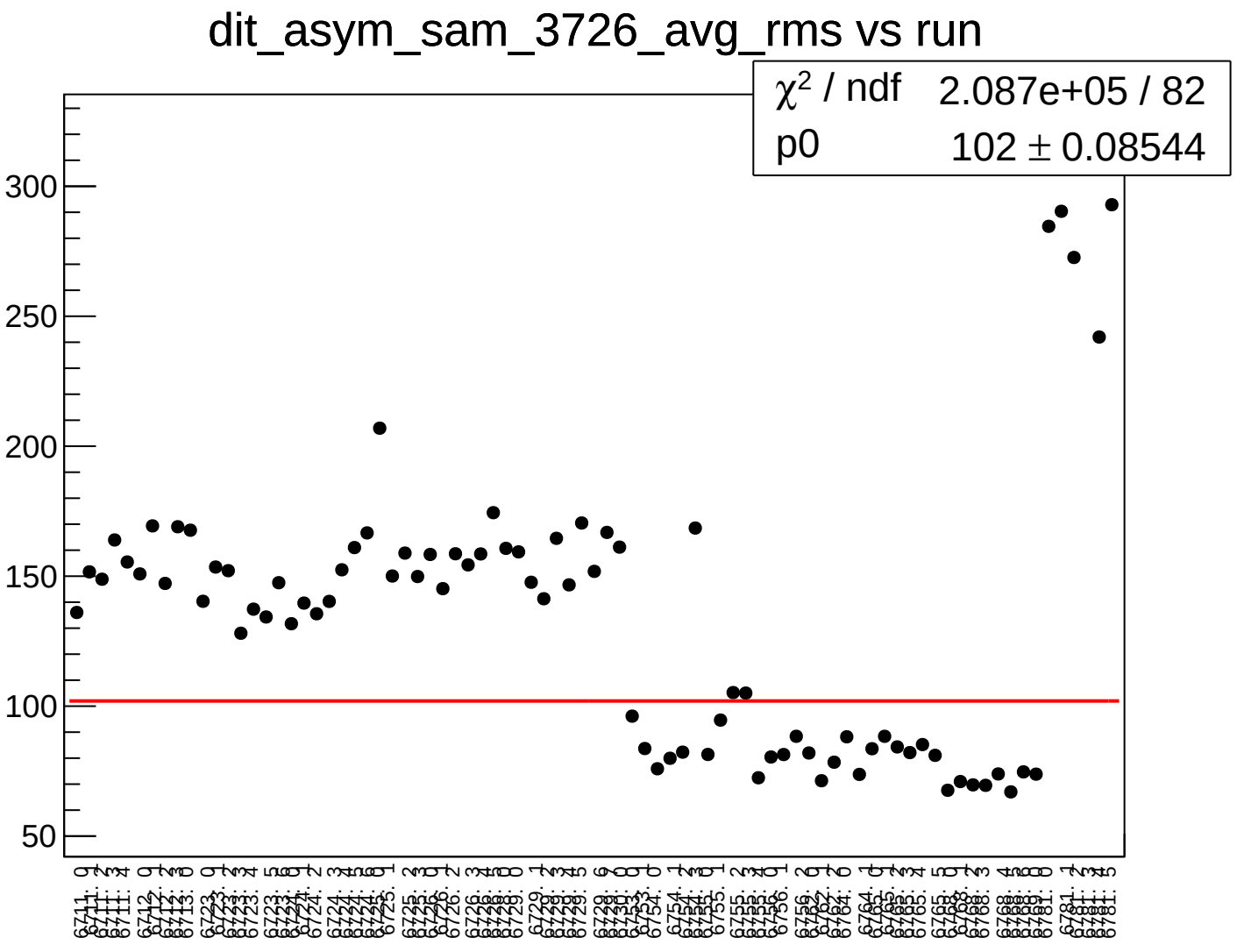

asym_sam_1526_avg_mean vs run
χ² / ndf 102.2 / 82
p0 55.77 ± 246.1
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 105
Std Dev 28.65
2
1
0
−1
−2

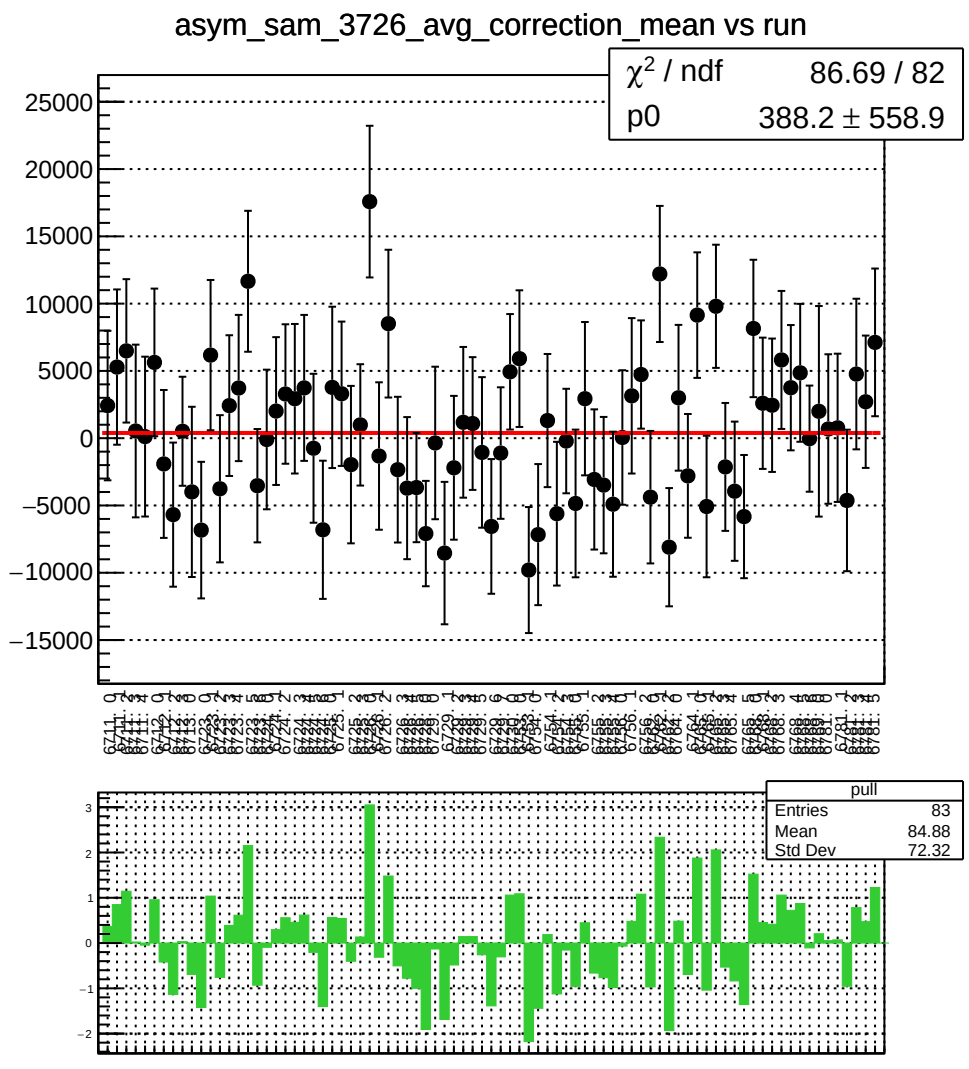

pull1D
Entries 83
Mean −0.02128
Std Dev 1.109
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

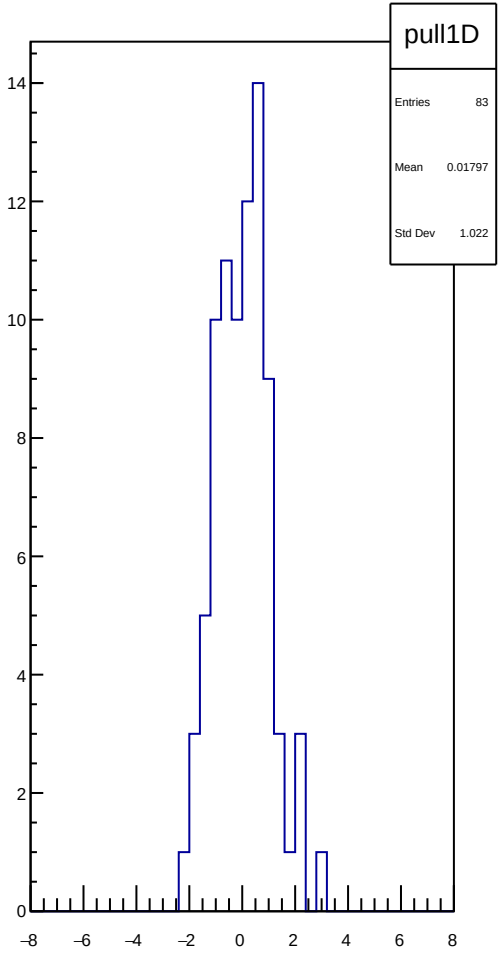

asym_sam_1526_avg_rms vs run
χ² / ndf 4.693e+04 / 82
p0 219.2 ± 0.174
400
350
300
250
200

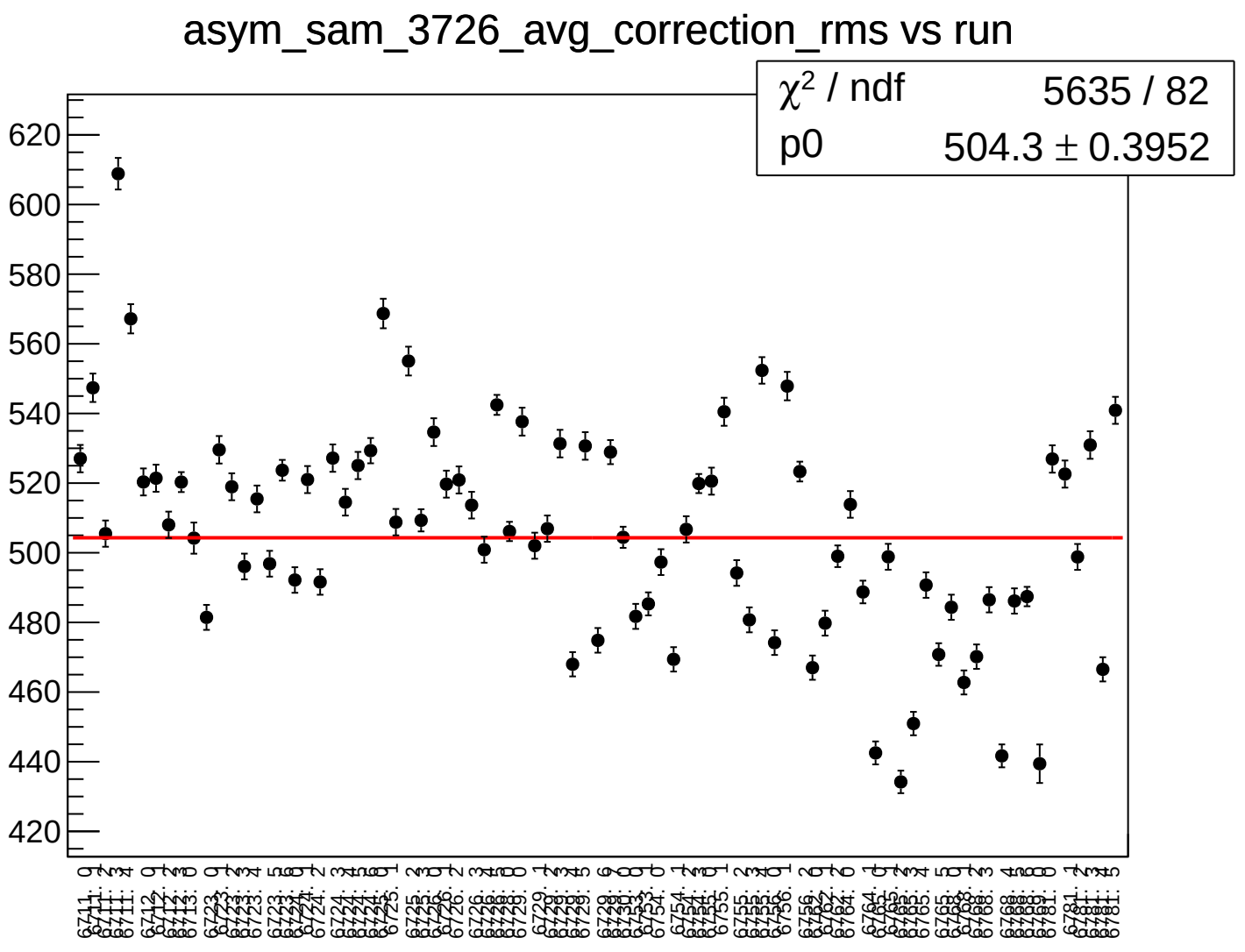

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 80.71 / 82
p0 −47.07 ± 120.8
pull
Entries 83
Mean −261.8
Std Dev 303.5

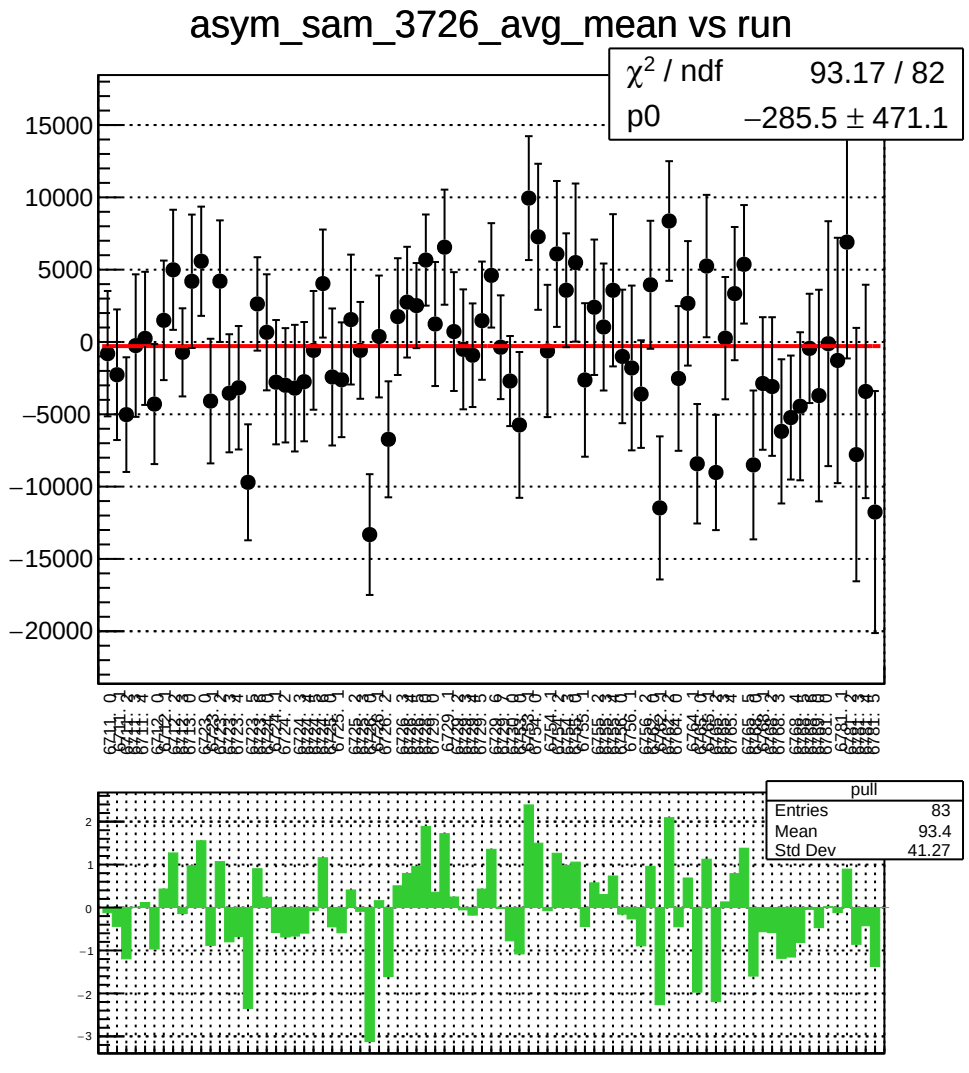

pull1D
Entries 83
Mean 0.01745
Std Dev 0.986

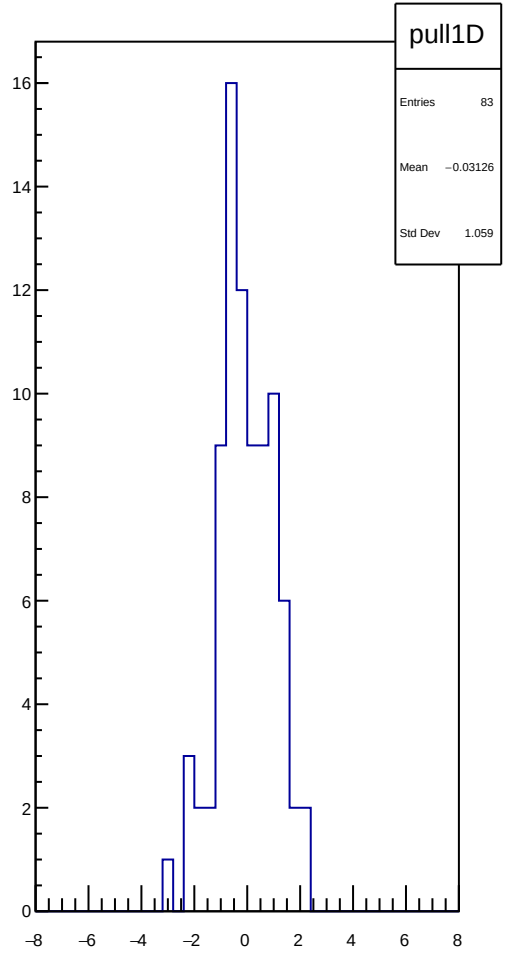

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.087e+05 / 82
p0 102 ± 0.08544
300
250
200
150
100
50

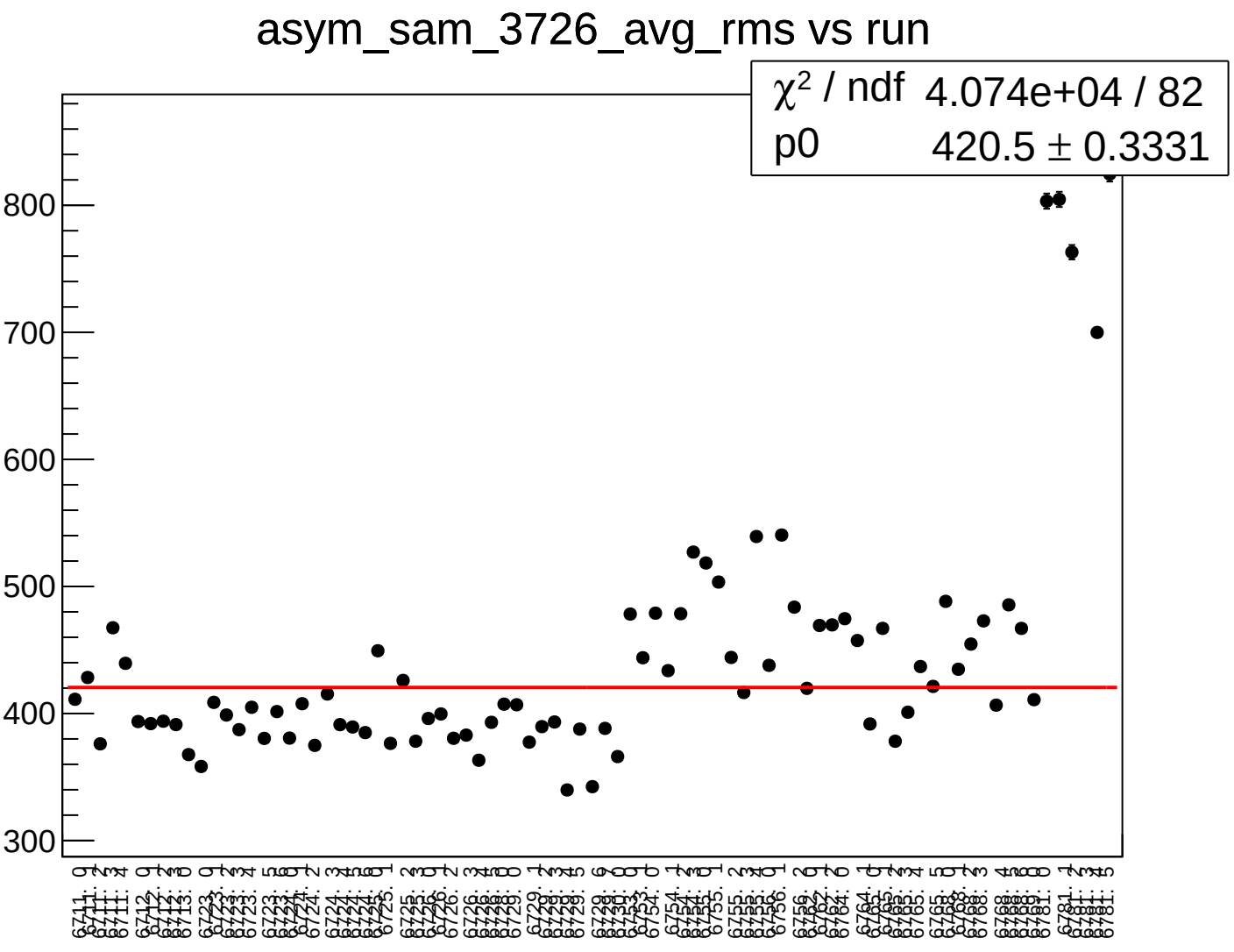

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 86.69 / 82
p0 388.2 ± 558.9
pull
Entries 83
Mean 84.88
Std Dev 72.32

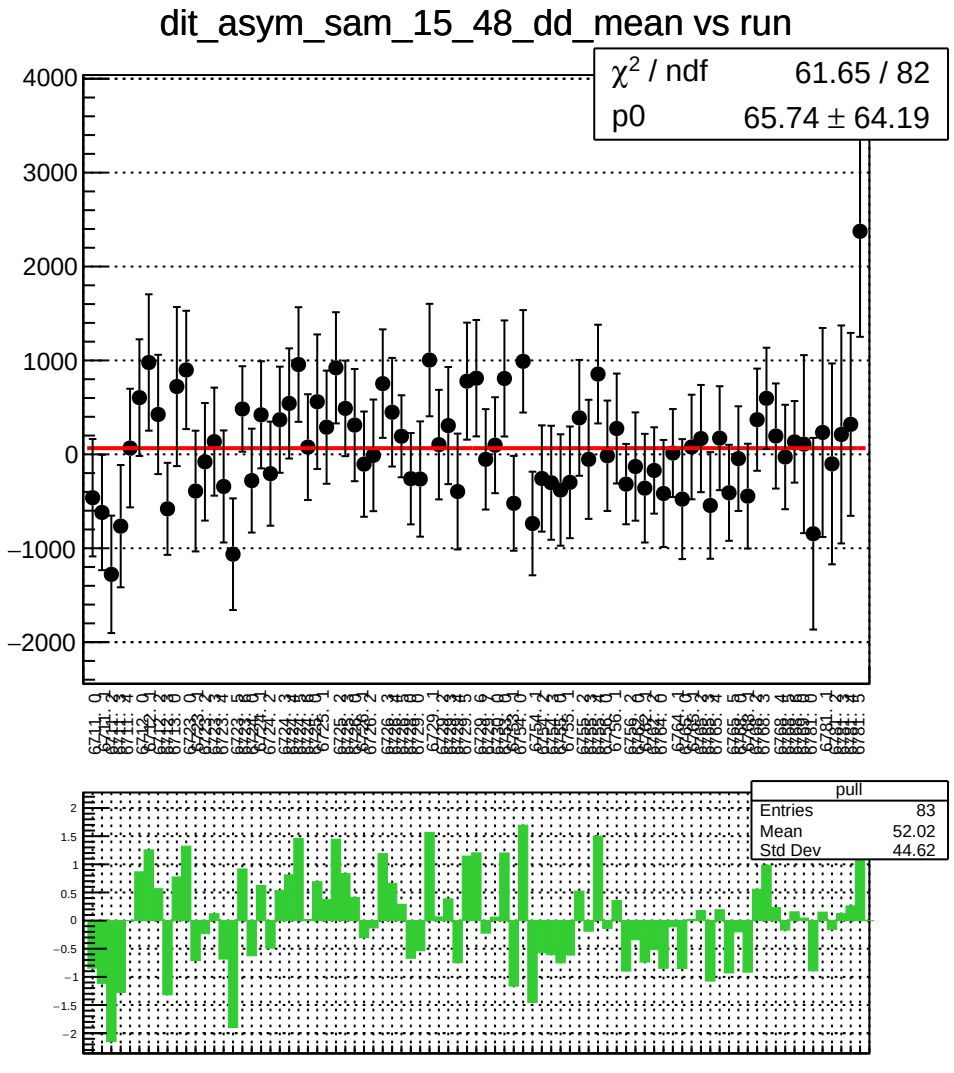

pull1D
Entries 83
Mean 0.01797
Std Dev 1.022

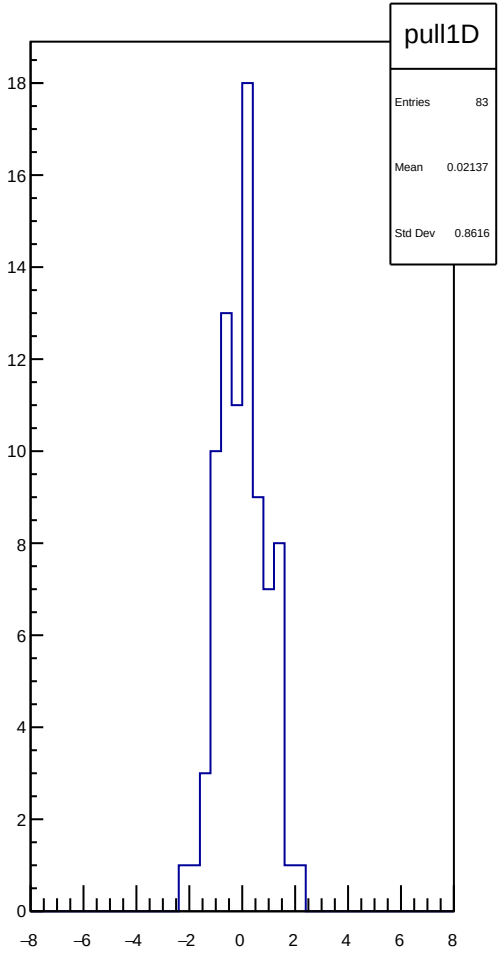

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 5635 / 82
p0 504.3 ± 0.3952
620
600
580
560
540
520
500
480
460
440
420

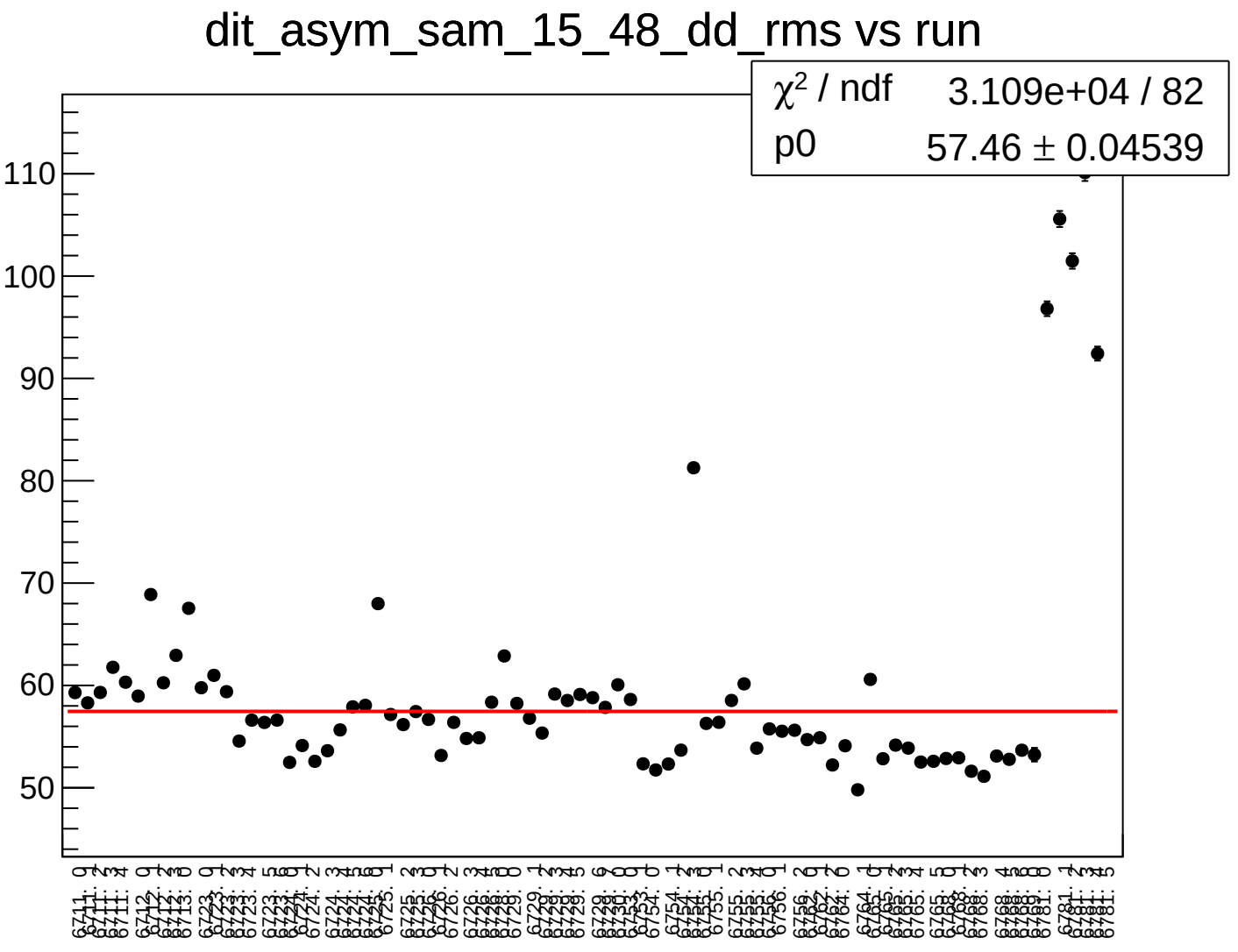

asym_sam_3726_avg_mean vs run
χ² / ndf 93.17 / 82
p0 −285.5 ± 471.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 83
Mean 93.4
Std Dev 41.27
2
1
0
−1
−2
−3

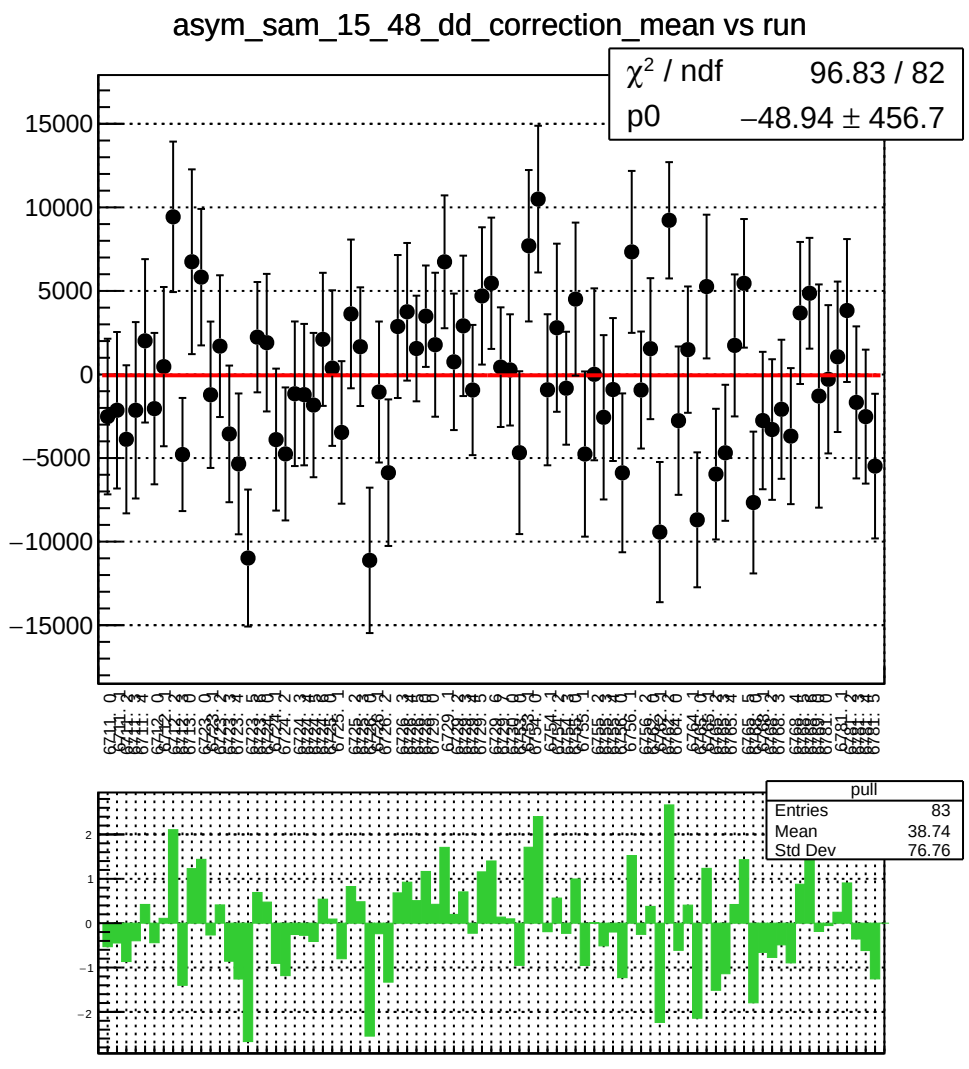

pull1D
Entries 83
Mean −0.03126
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

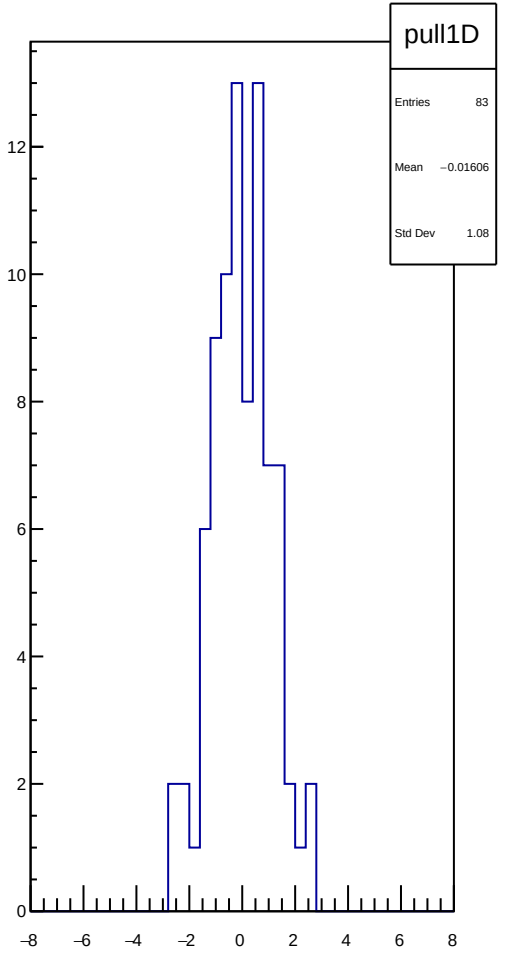

asym_sam_3726_avg_rms vs run
χ² / ndf 4.074e+04 / 82
p0 420.5 ± 0.3331
800
700
600
500
400
300

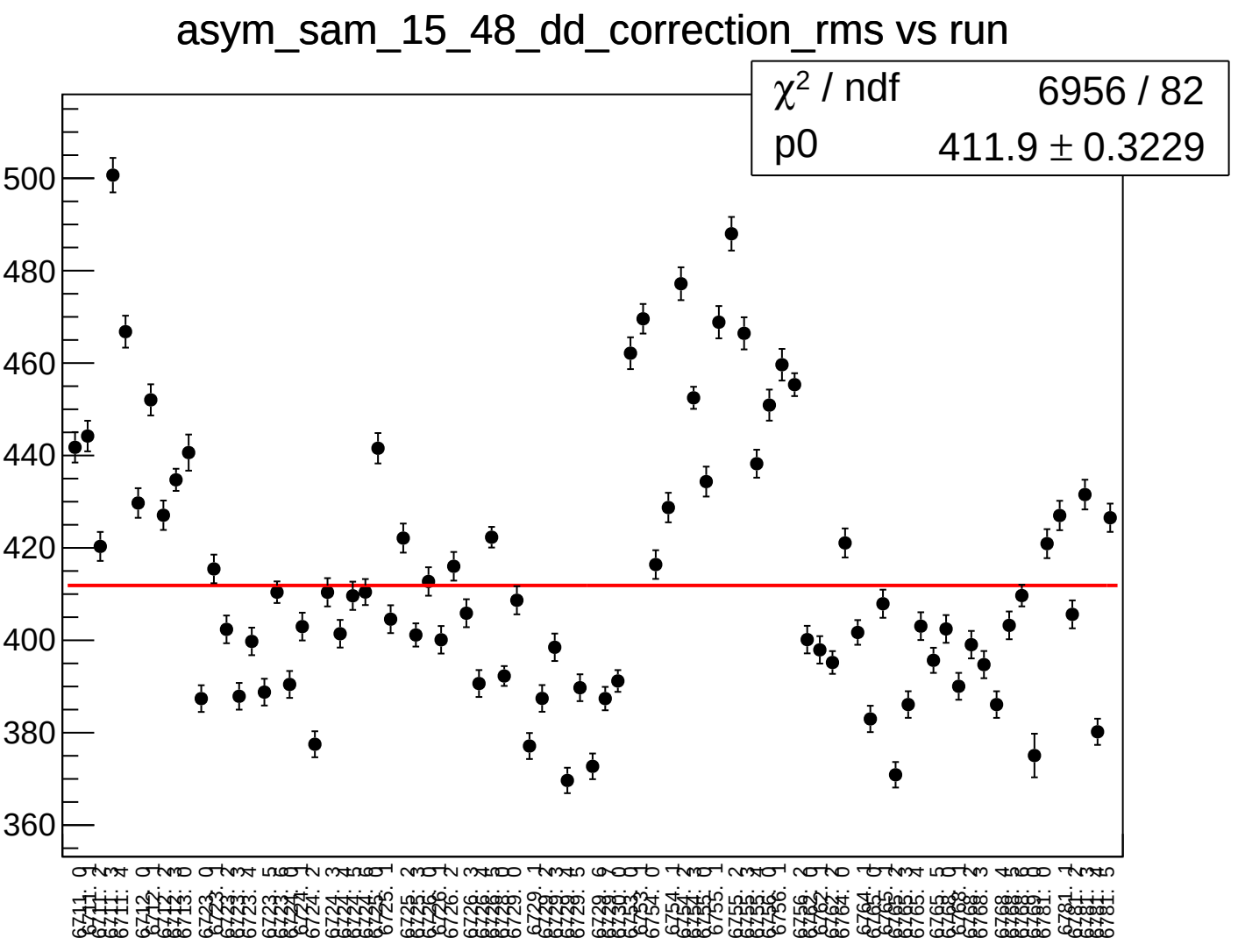

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 61.65 / 82
p0 65.74 ± 64.19
pull
Entries 83
Mean 52.02
Std Dev 44.62

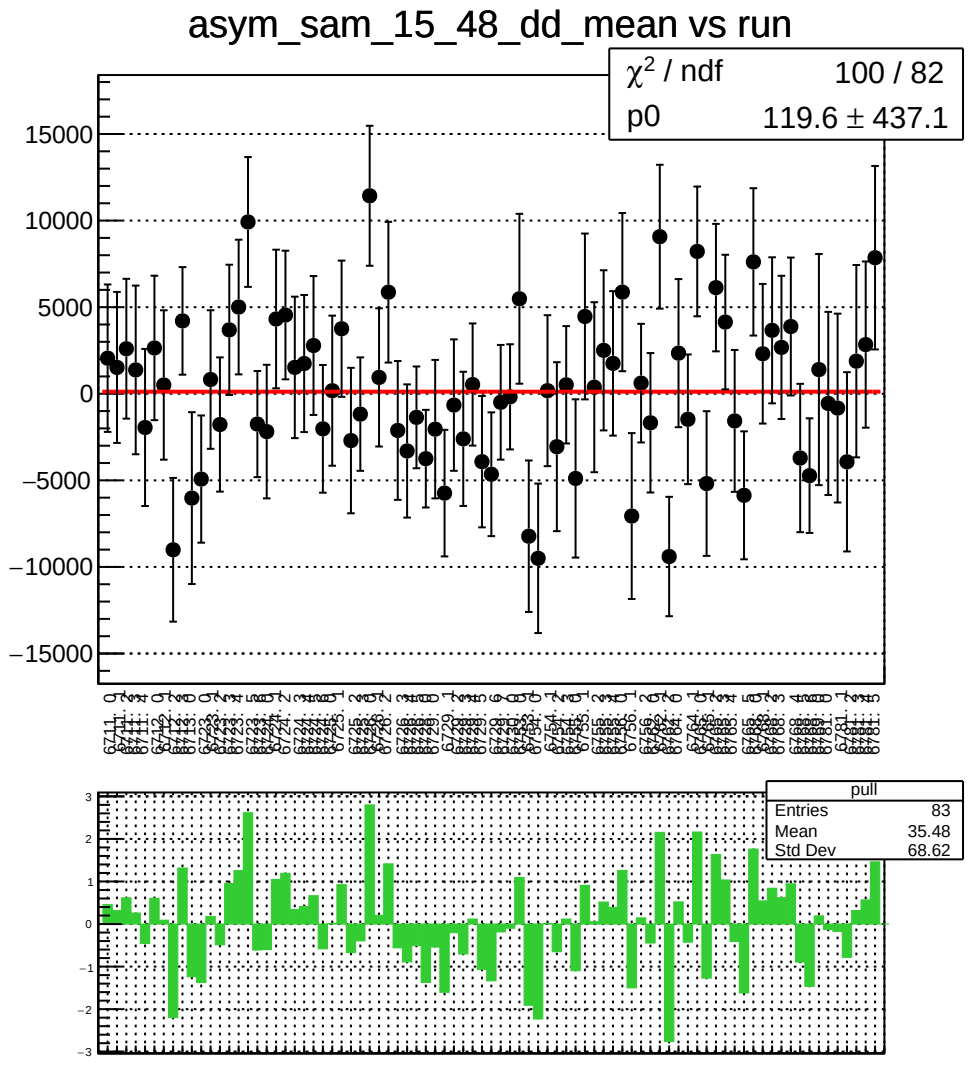

pull1D
Entries 83
Mean 0.02137
Std Dev 0.8616

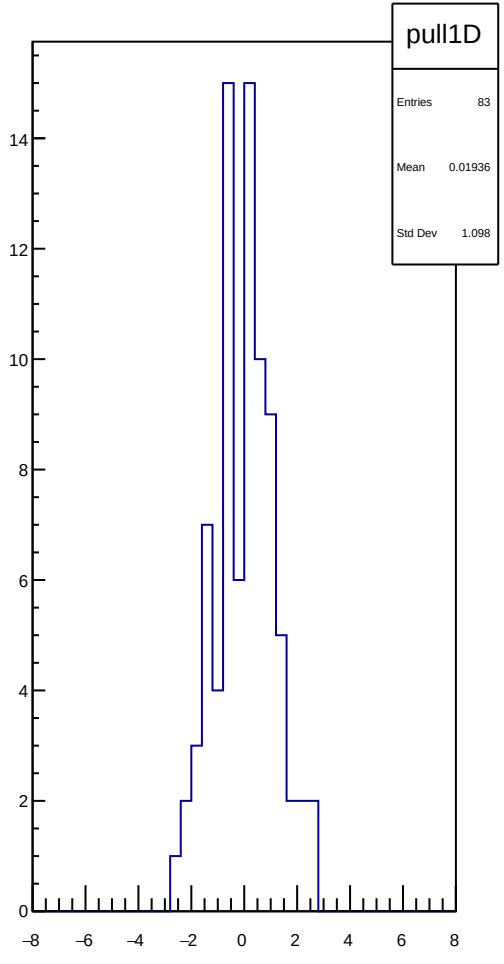

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.109e+04 / 82
p0 57.46 ± 0.04539
110
100
90
80
70
60
50

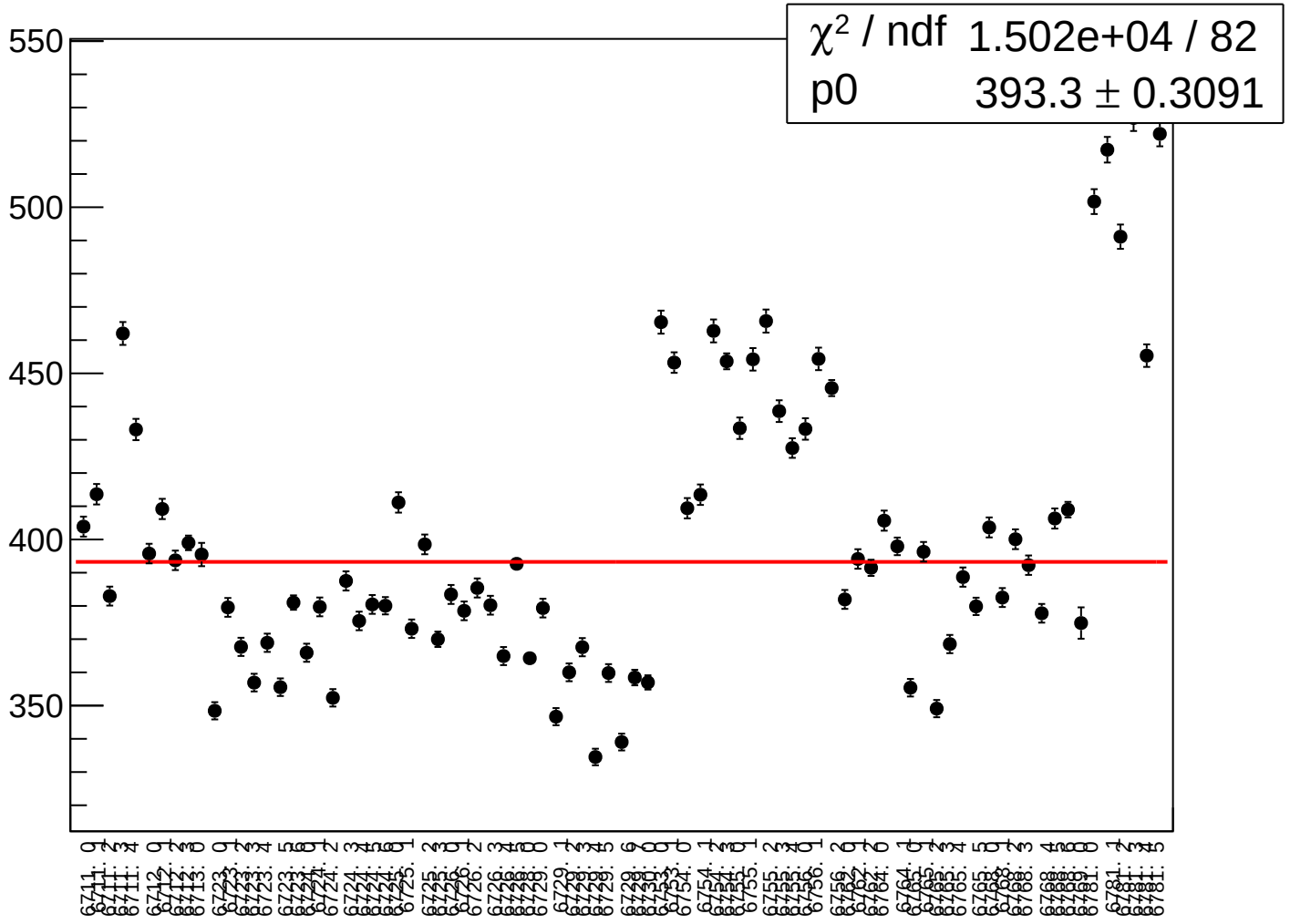

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 96.83 / 82
p0 −48.94 ± 456.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 38.74
Std Dev 76.76
2
1
0
−1
−2

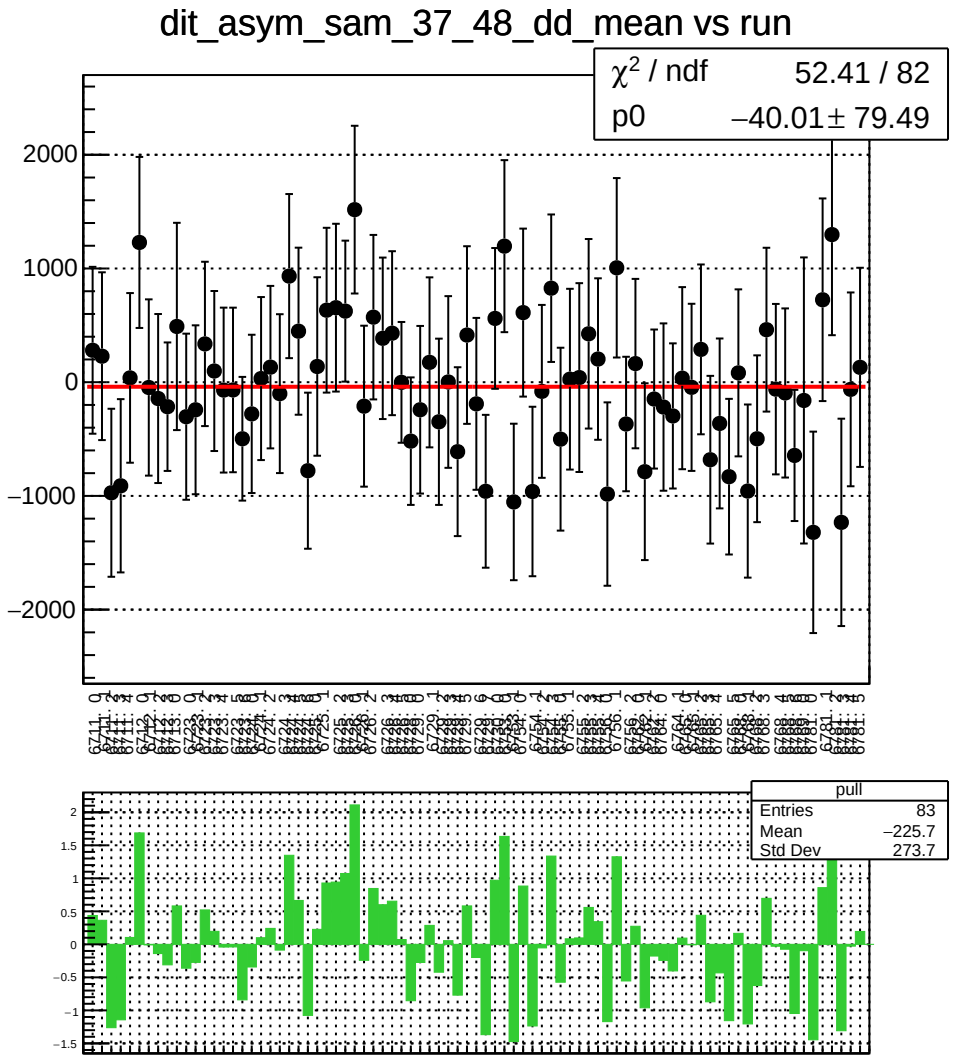

pull1D
Entries 83
Mean −0.01606
Std Dev 1.08
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

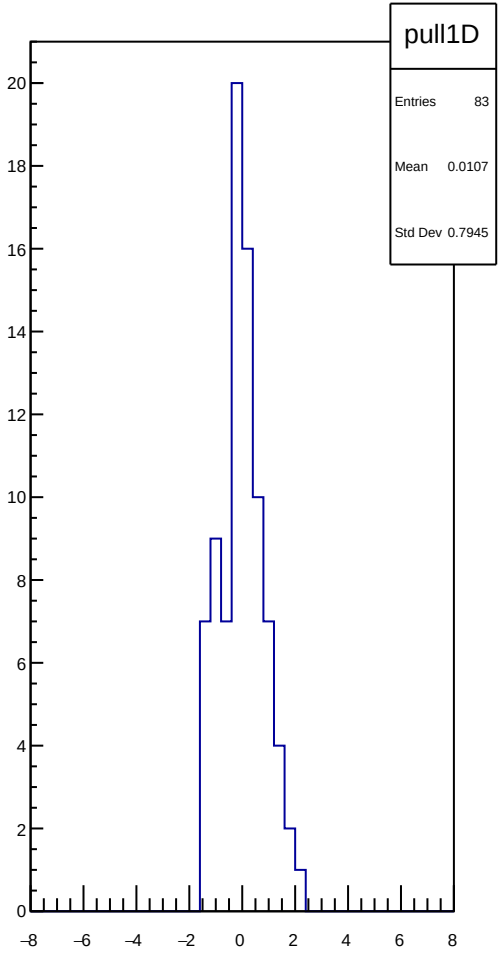

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 6956 / 82
p0 411.9 ± 0.3229
500
480
460
440
420
400
380
360

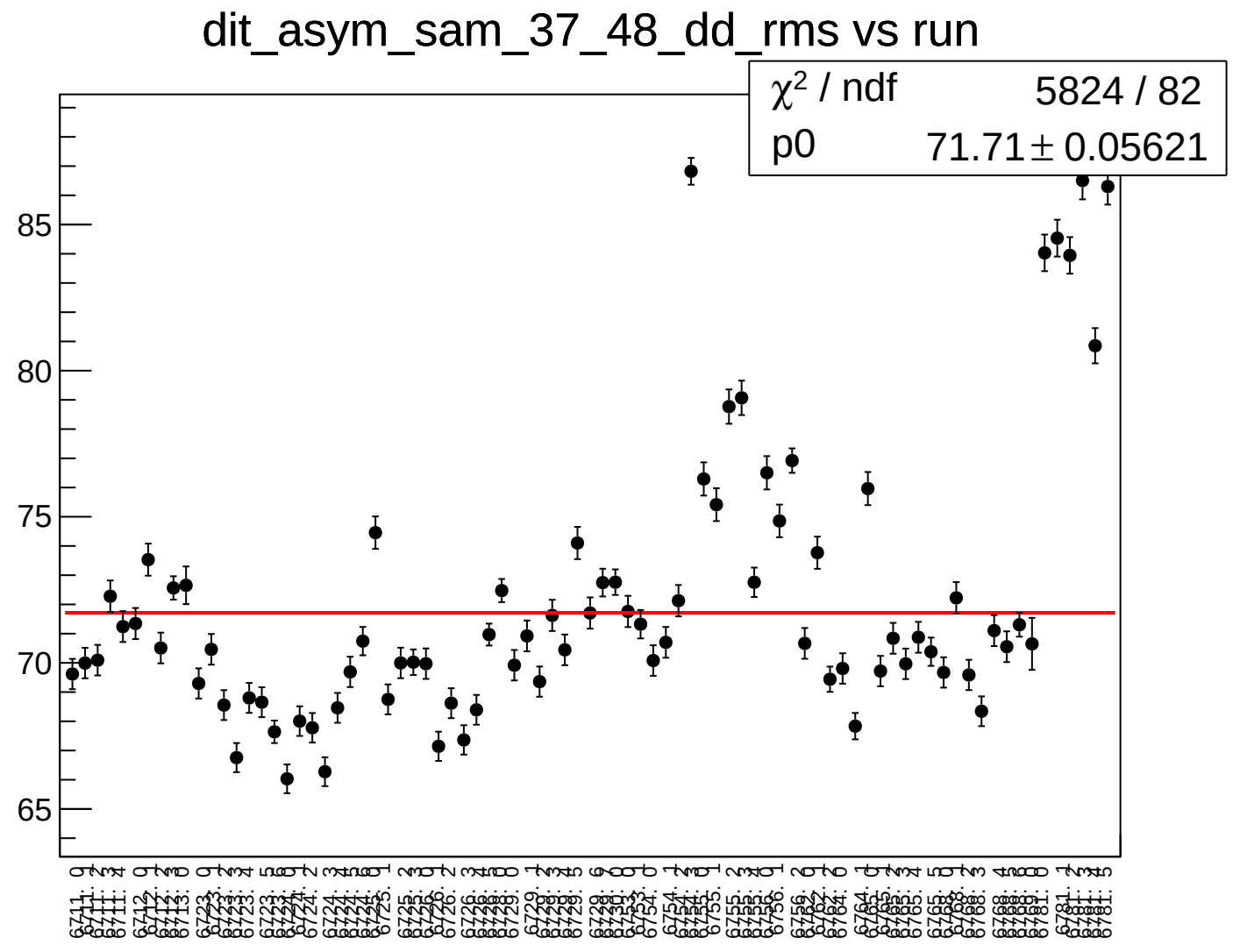

asym_sam_15_48_dd_mean vs run
χ² / ndf 100 / 82
p0 119.6 ± 437.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 35.48
Std Dev 68.62
3
2
1
0
−1
−2
−3

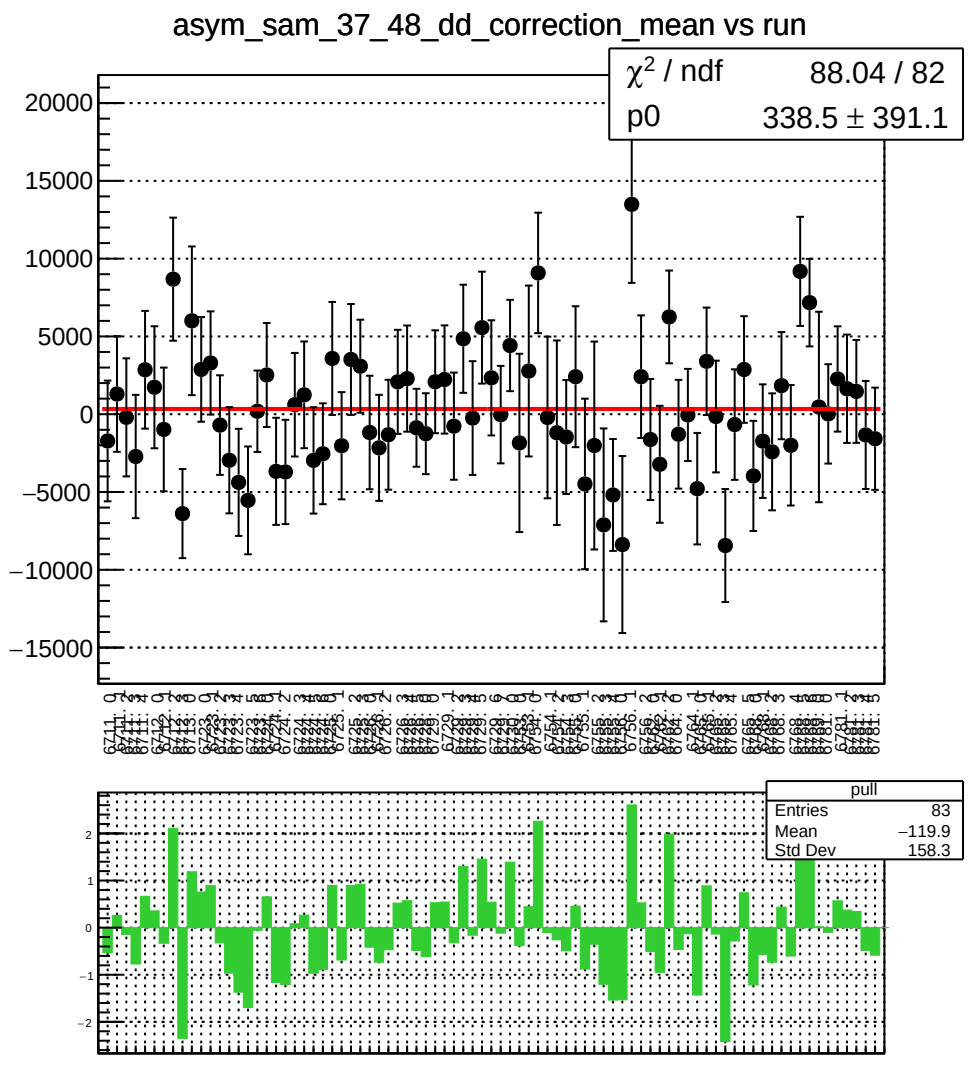

pull1D
Entries 83
Mean 0.01936
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

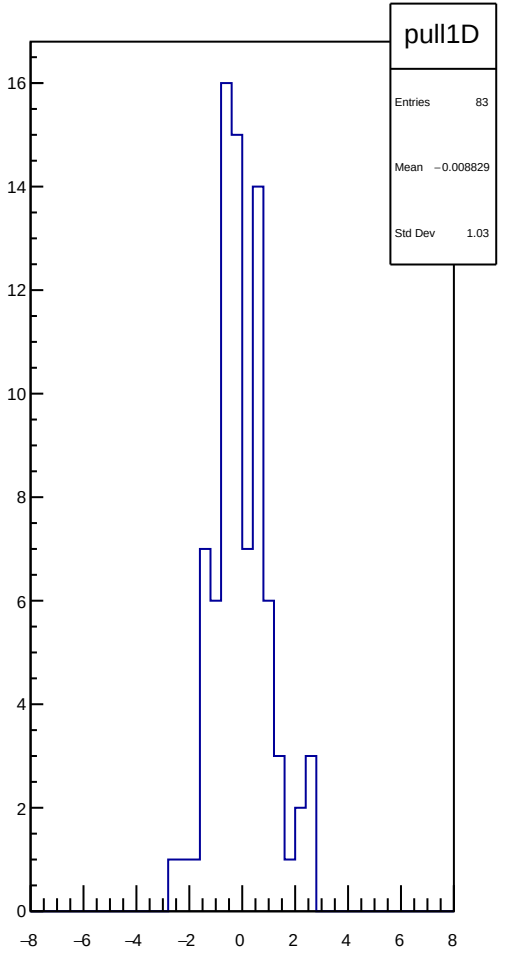

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.502e+04 / 82
p0 393.3 ± 0.3091
550
500
450
400
350

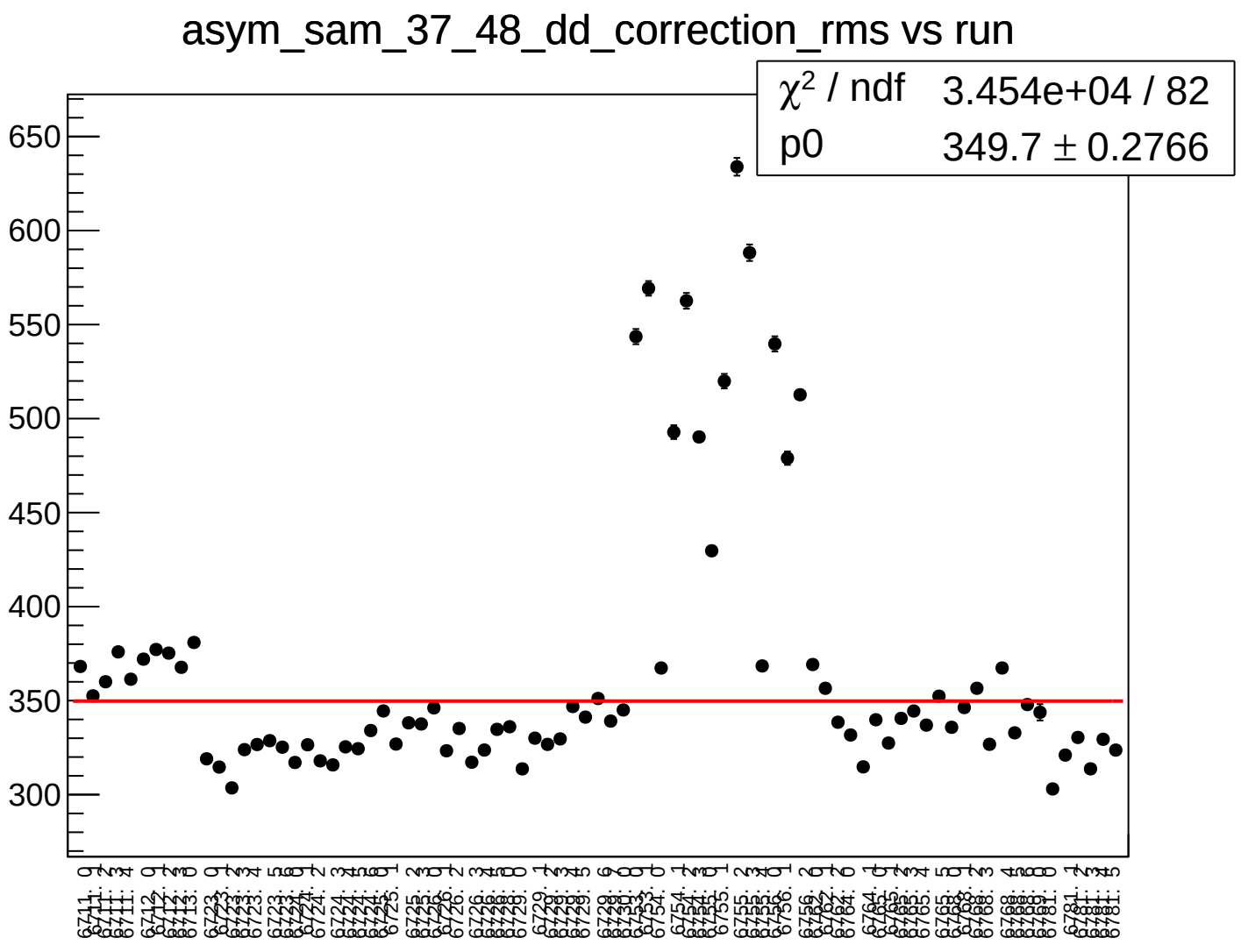

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 52.41 / 82
p0 −40.01± 79.49
pull
Entries 83
Mean −225.7
Std Dev 273.7

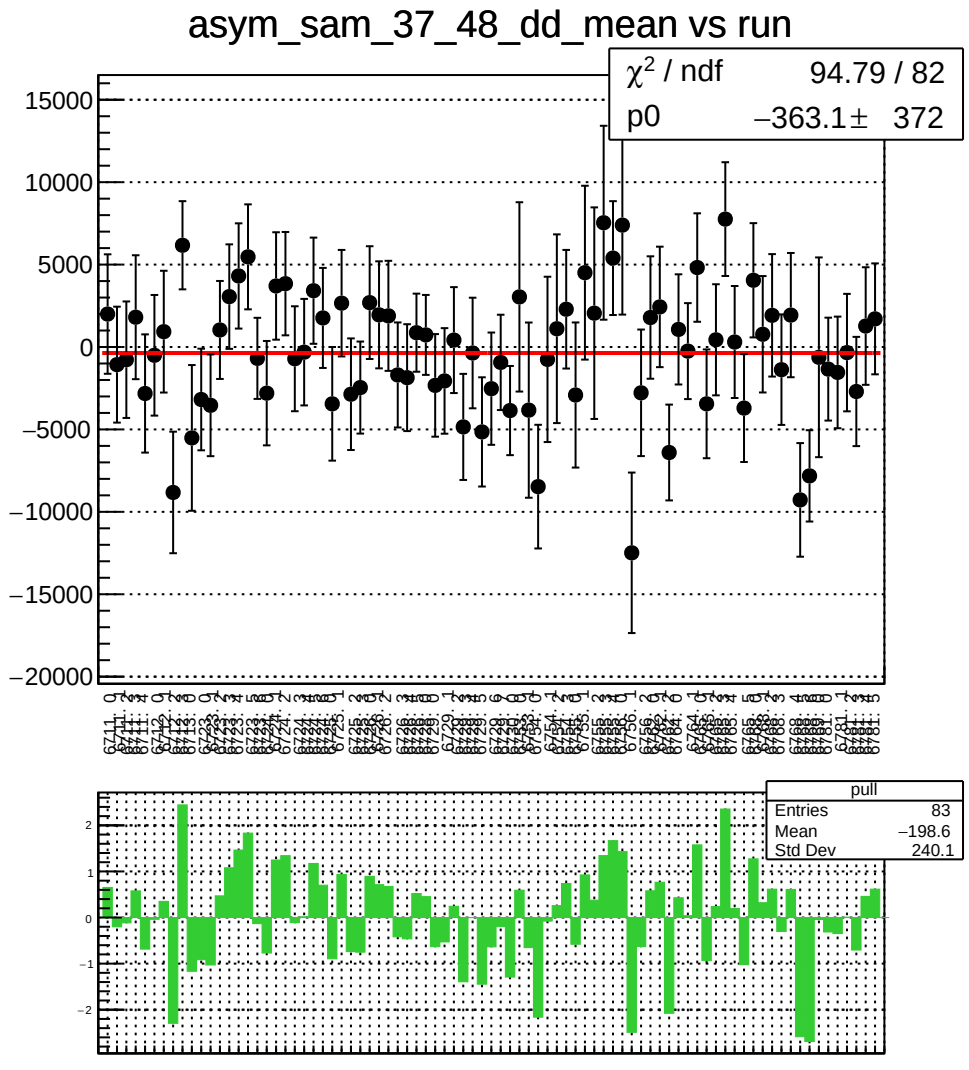

pull1D
Entries 83
Mean 0.0107
Std Dev 0.7945

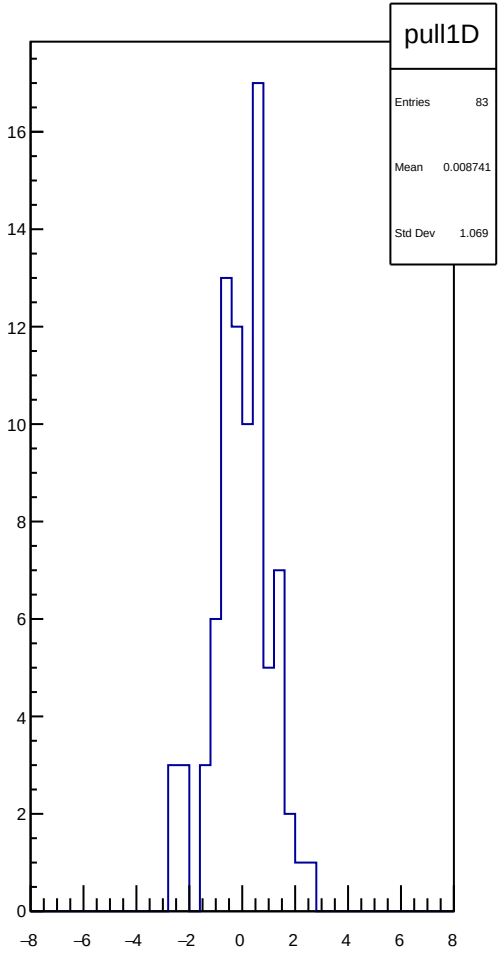

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 5824 / 82
p0 71.71 ± 0.05621
85
80
75
70
65

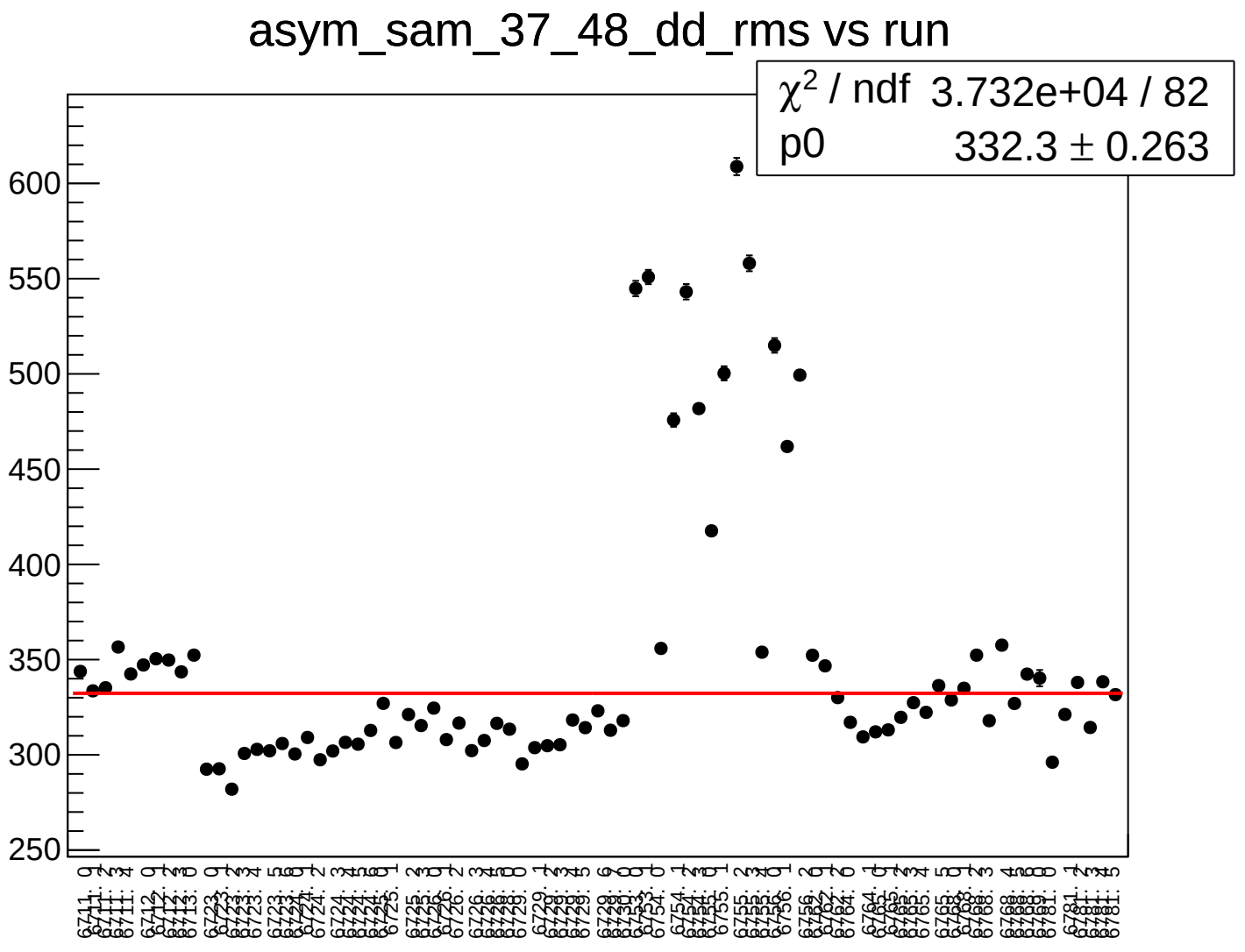

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 88.04 / 82
p0 338.5 ± 391.1
pull
Entries 83
Mean −119.9
Std Dev 158.3

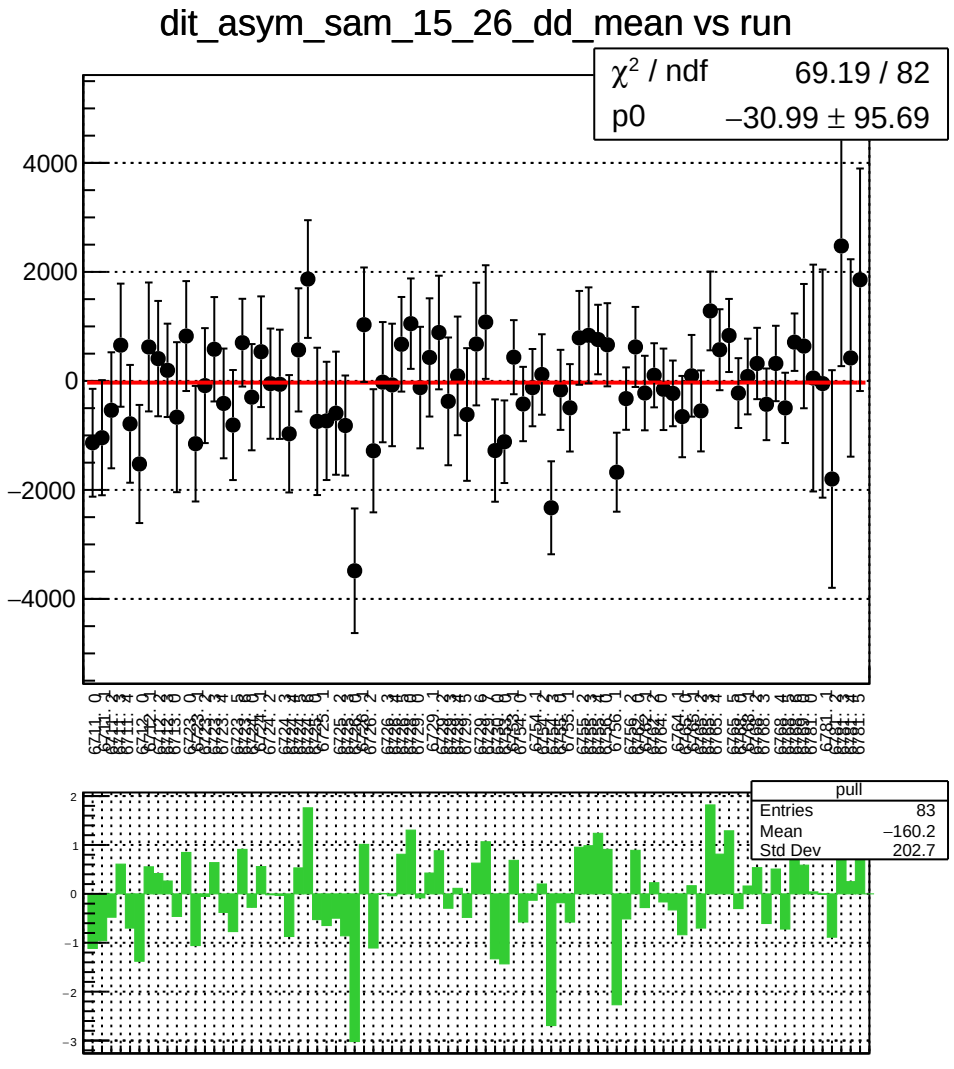

pull1D
Entries 83
Mean −0.008829
Std Dev 1.03

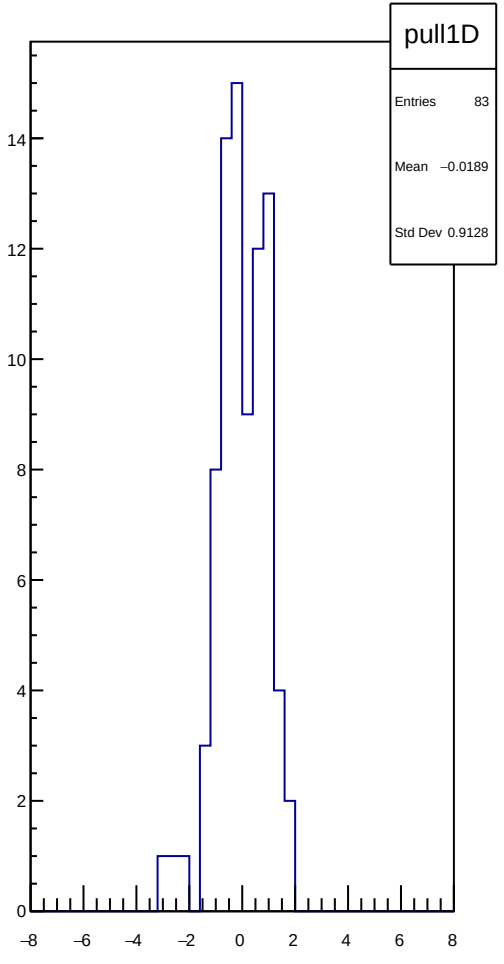

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 3.454e+04 / 82
p0 349.7 ± 0.2766
650
600
550
500
450
400
350
300

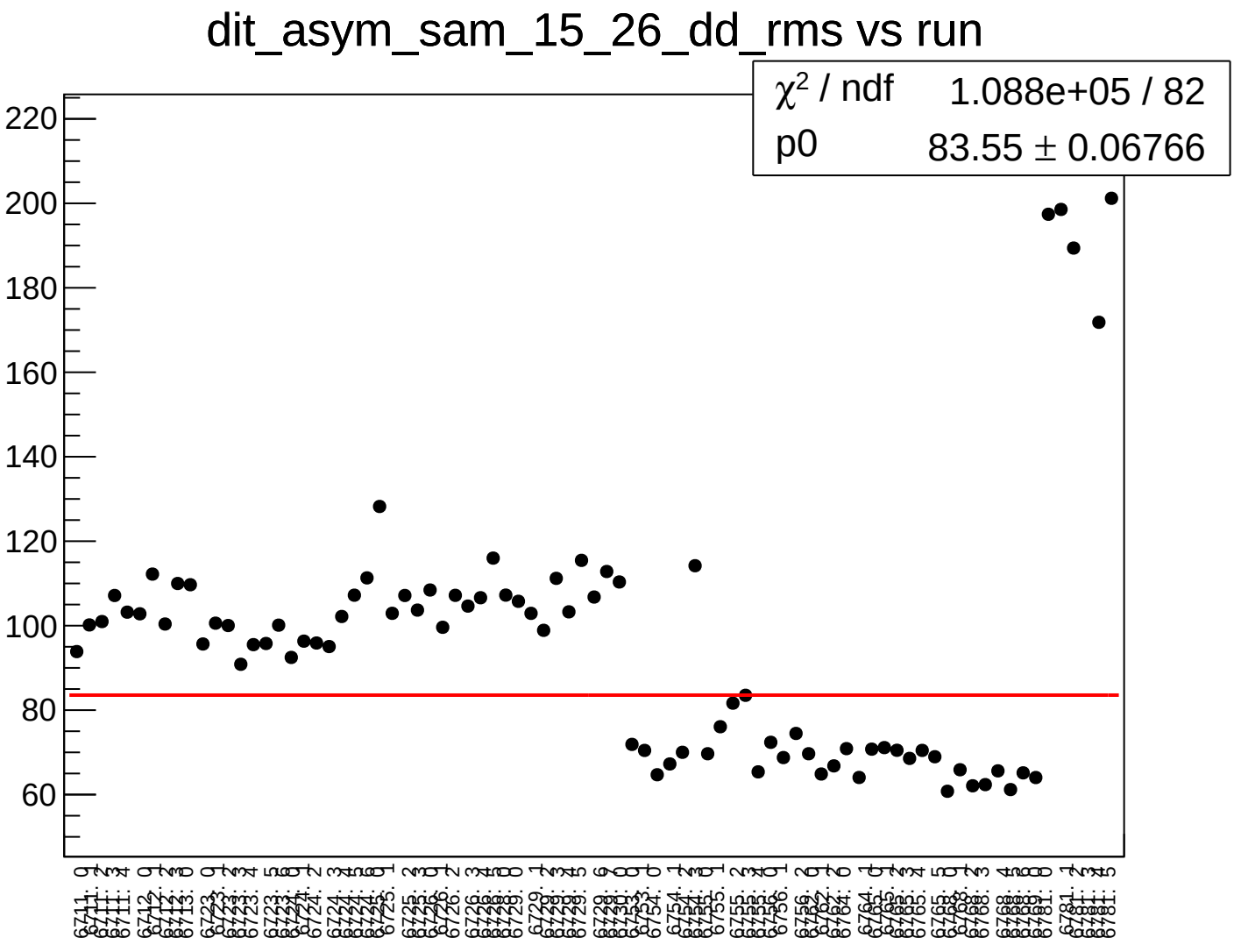

asym_sam_37_48_dd_mean vs run
χ² / ndf 94.79 / 82
p0 −363.1± 372
pull
Entries 83
Mean −198.6
Std Dev 240.1

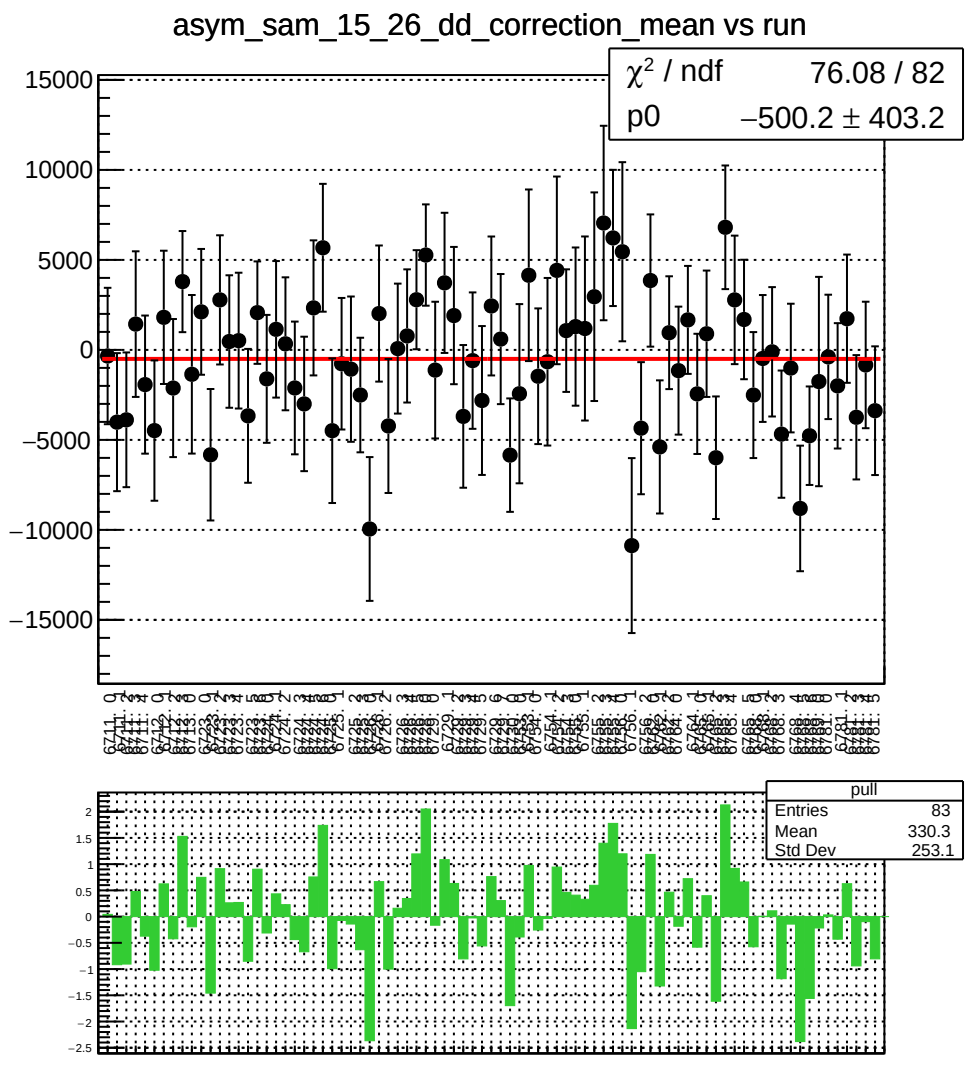

pull1D
Entries 83
Mean 0.008741
Std Dev 1.069

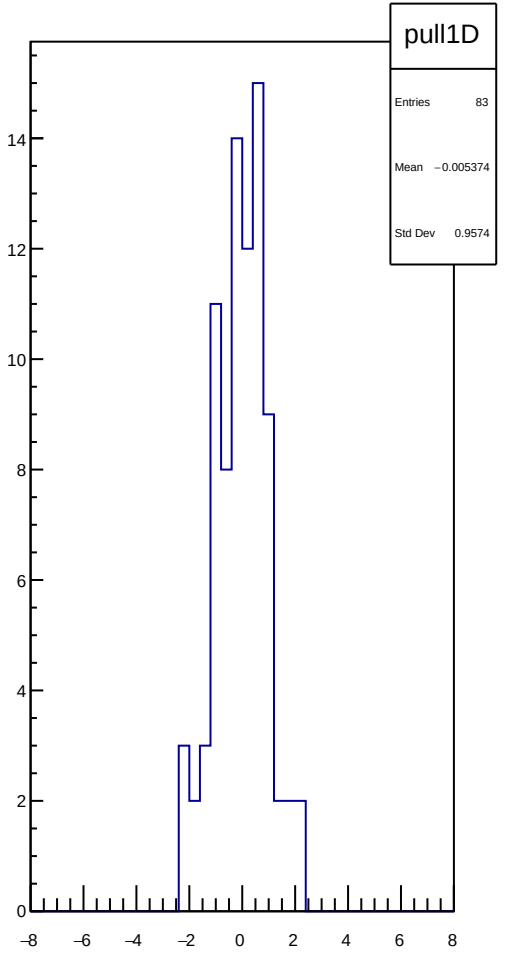

asym_sam_37_48_dd_rms vs run
χ^2 / ndf 3.732e+04 / 82
p0 332.3 ± 0.263
600
550
500
450
400
350
300
250

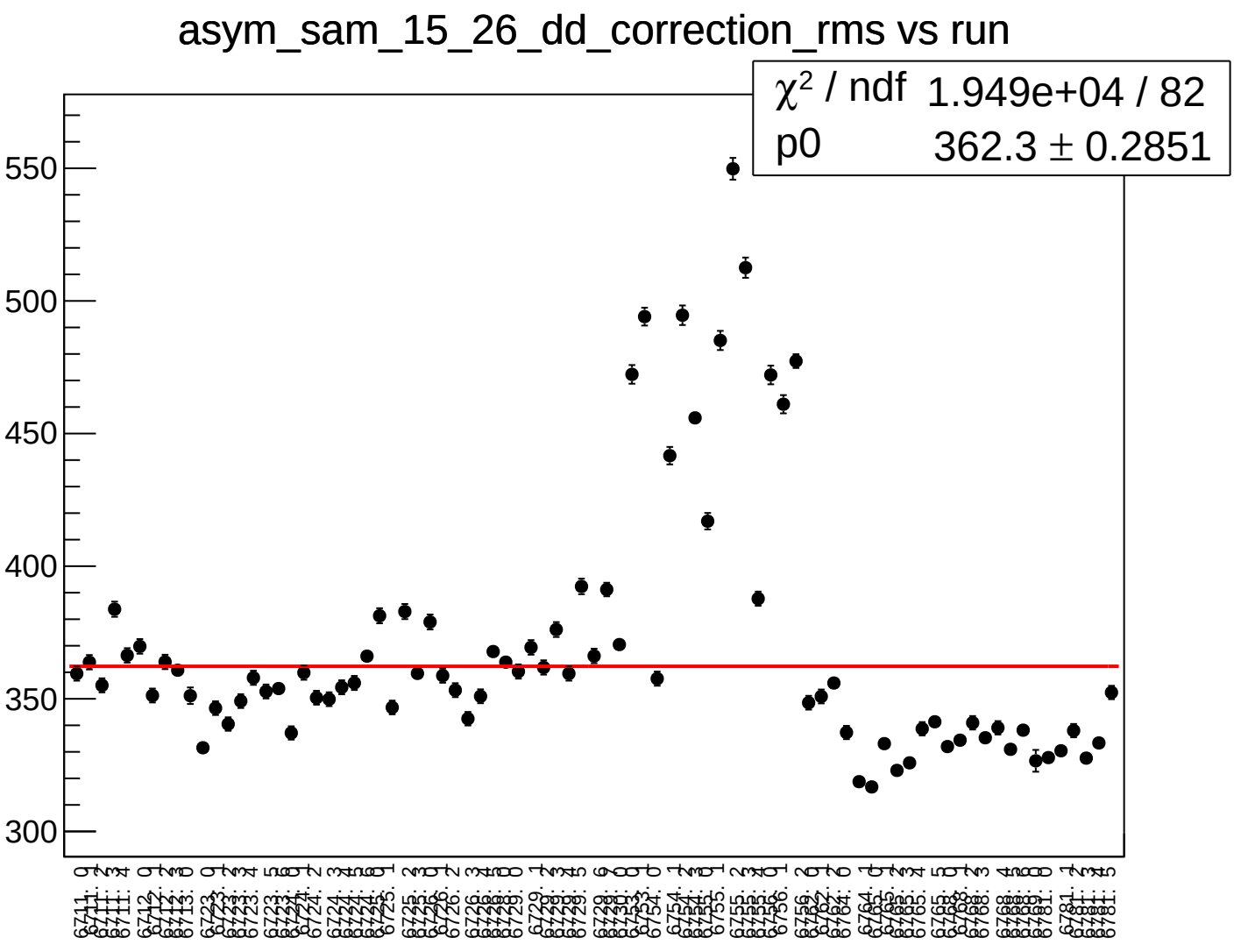

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 69.19 / 82
p0 −30.99 ± 95.69
4000
2000
0
−2000
−4000
pull
Entries 83
Mean −160.2
Std Dev 202.7
2
1
0
−1
−2
−3

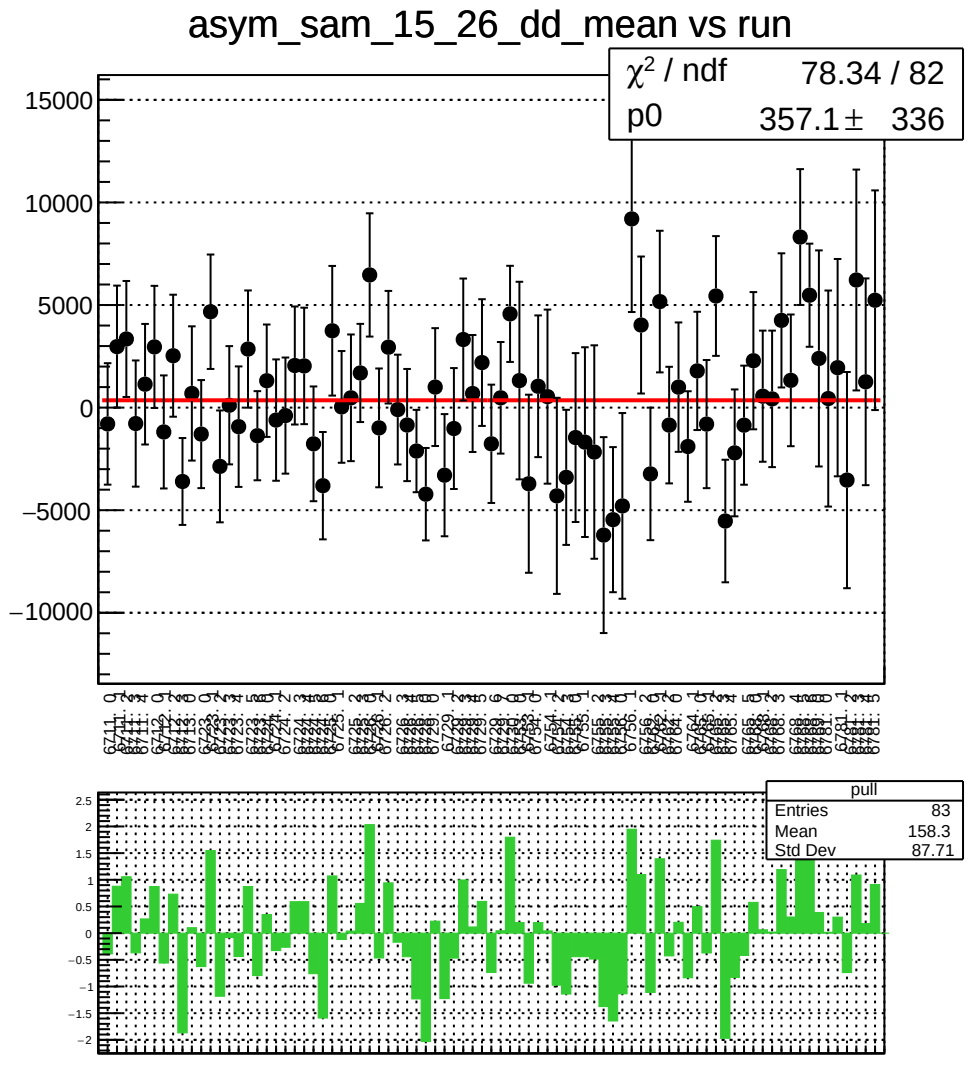

pull1D
Entries 83
Mean −0.0189
Std Dev 0.9128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

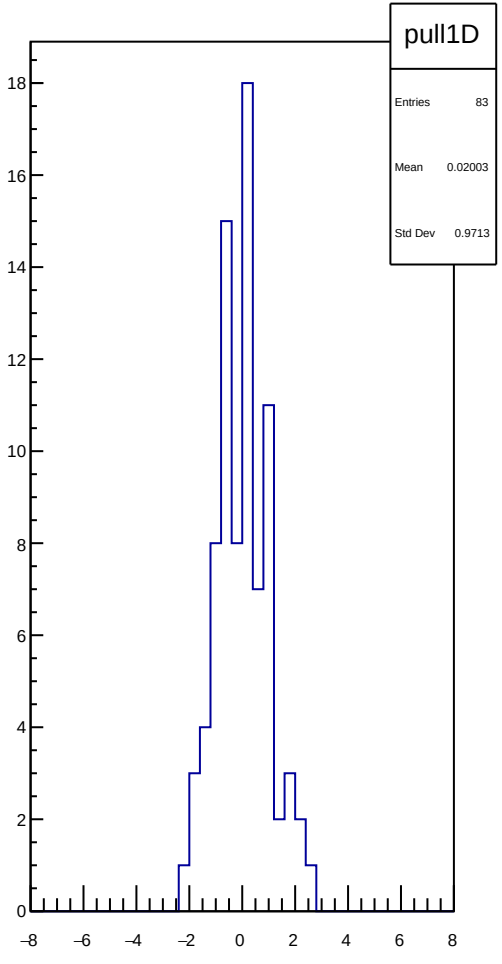

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 1.088e+05 / 82
p0 83.55 ± 0.06766
220
200
180
160
140
120
100
80
60

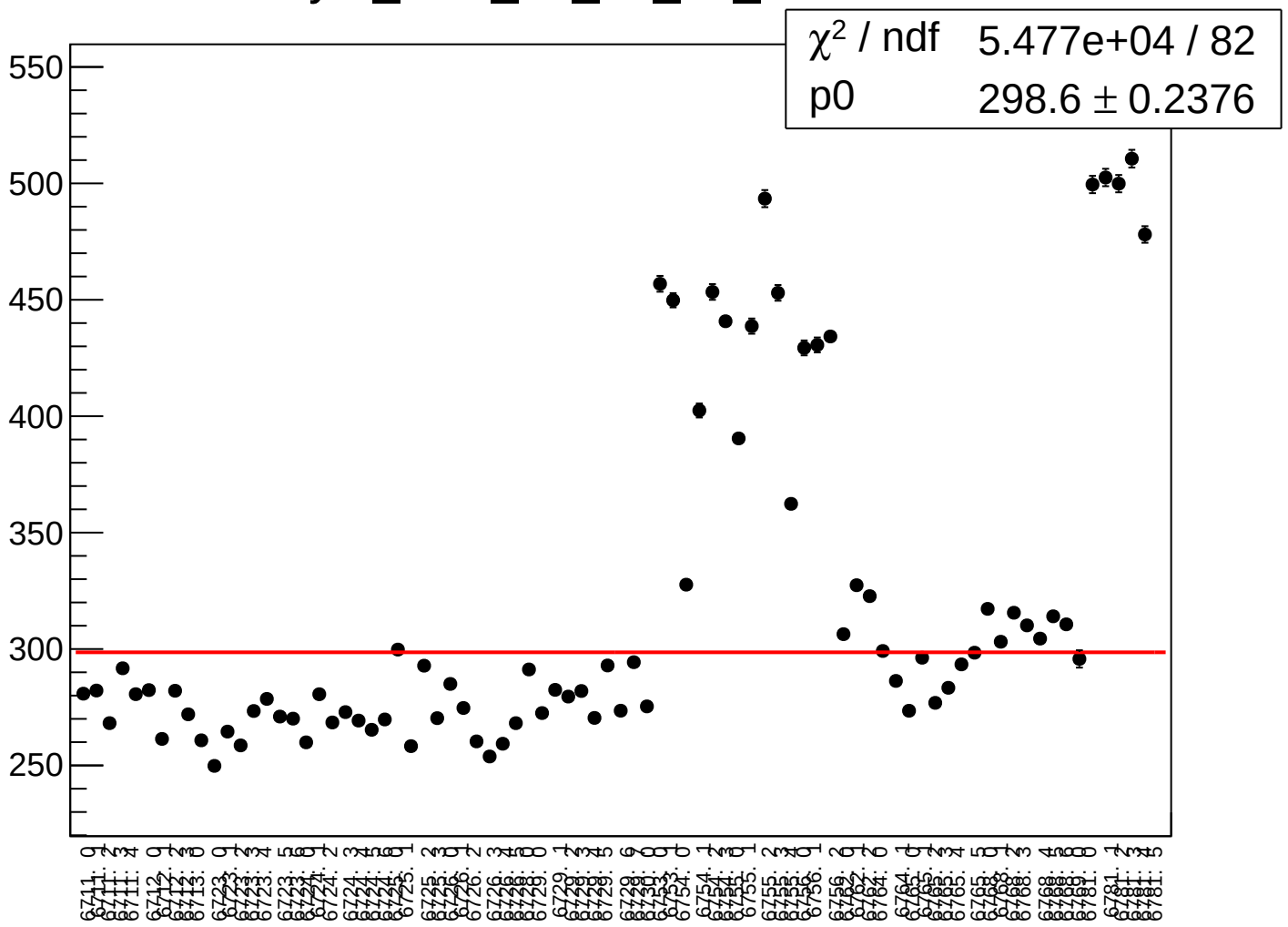

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 76.08 / 82
p0 −500.2 ± 403.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 330.3
Std Dev 253.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

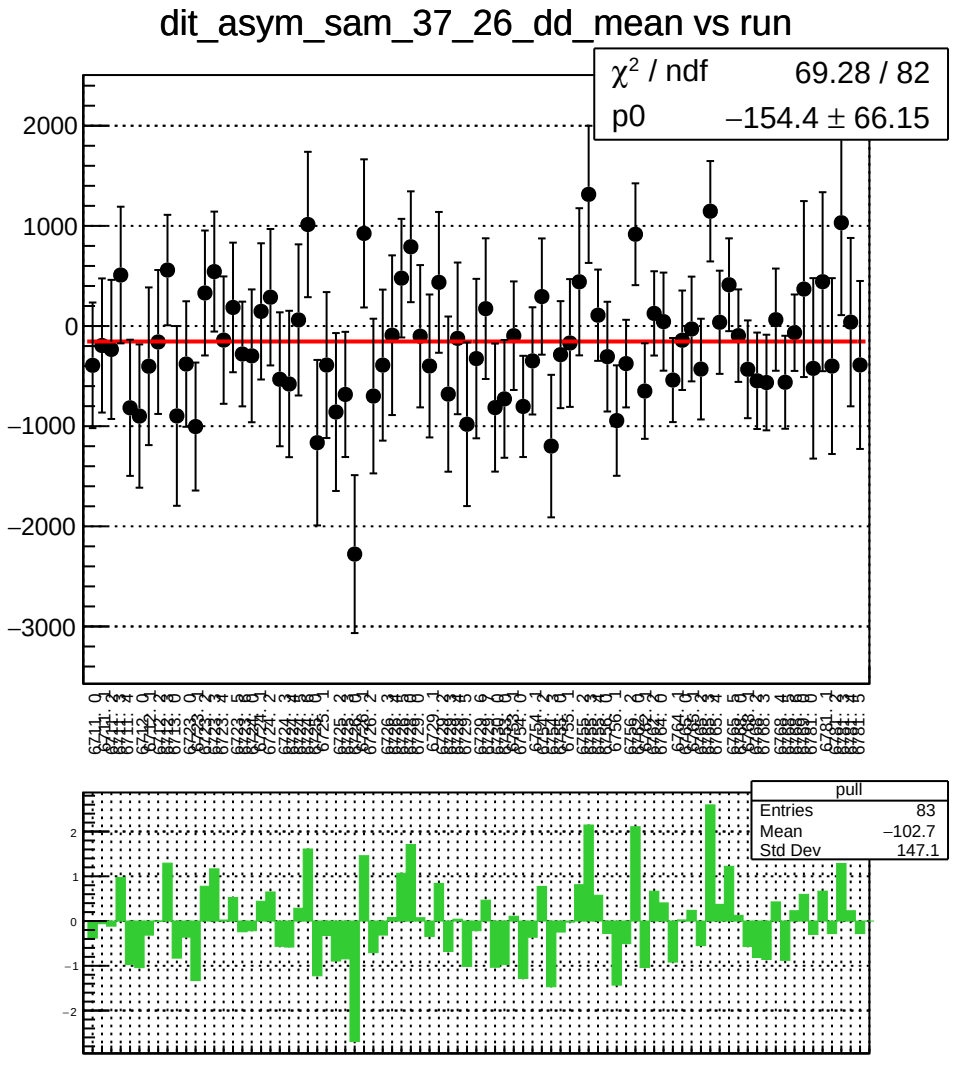

pull1D
Entries 83
Mean −0.005374
Std Dev 0.9574
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

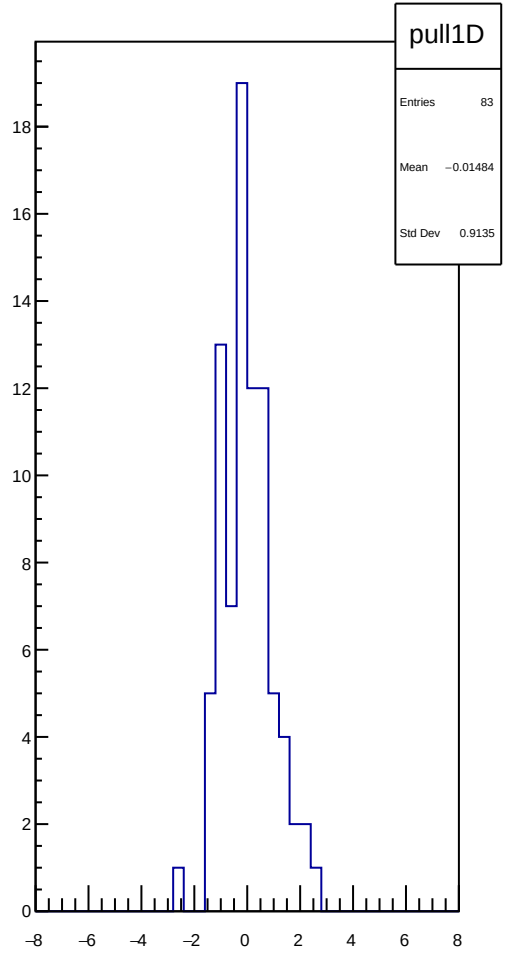

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 1.949e+04 / 82
p0 362.3 ± 0.2851
550
500
450
400
350
300

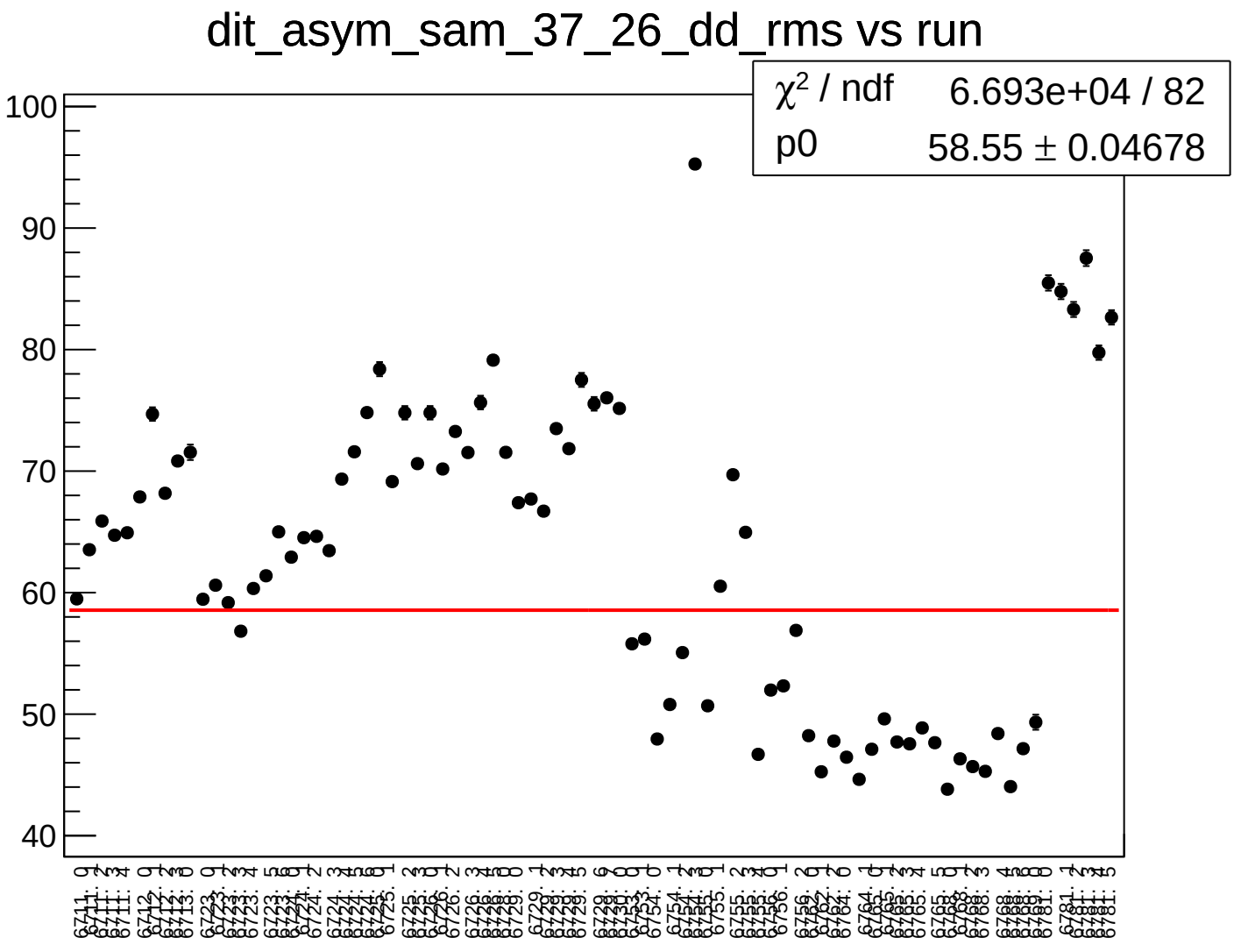

asym_sam_15_26_dd_mean vs run
χ² / ndf 78.34 / 82
p0 357.1 ± 336
pull
Entries 83
Mean 158.3
Std Dev 87.71

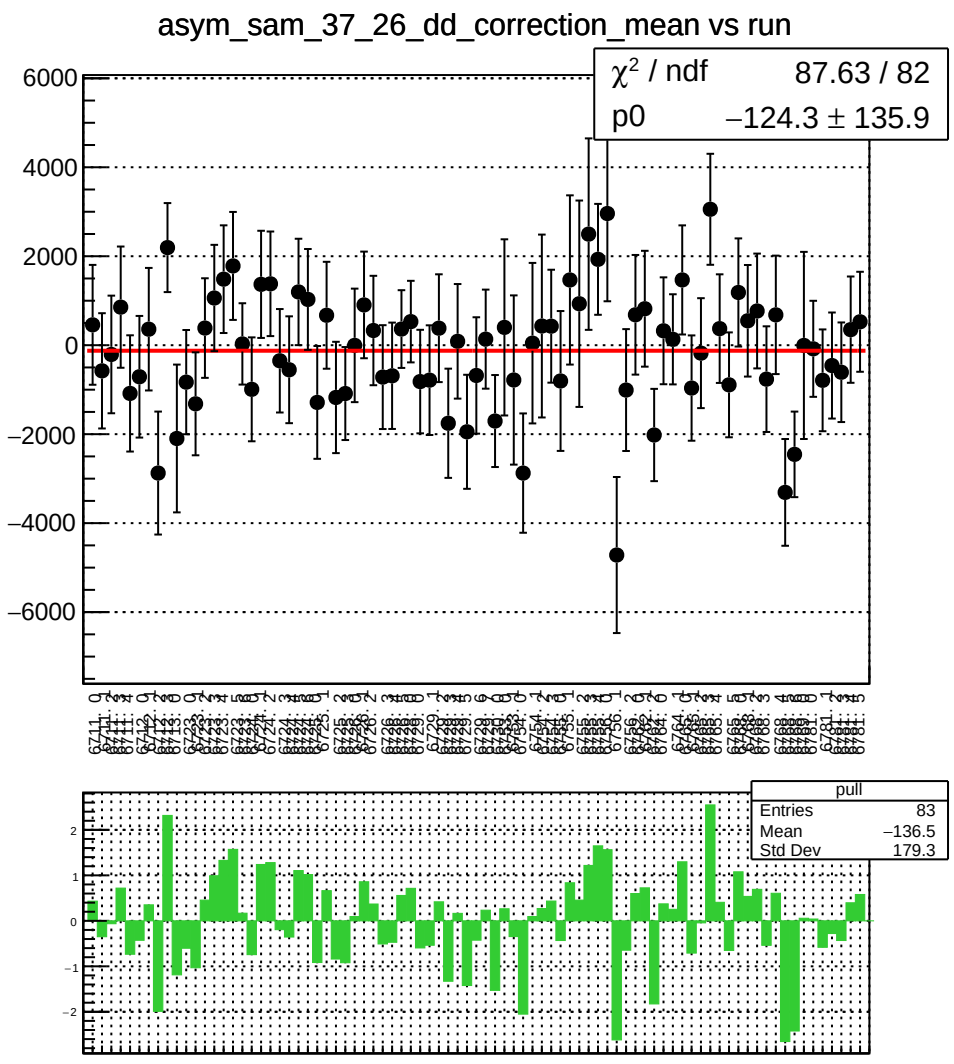

pull1D
Entries 83
Mean 0.02003
Std Dev 0.9713

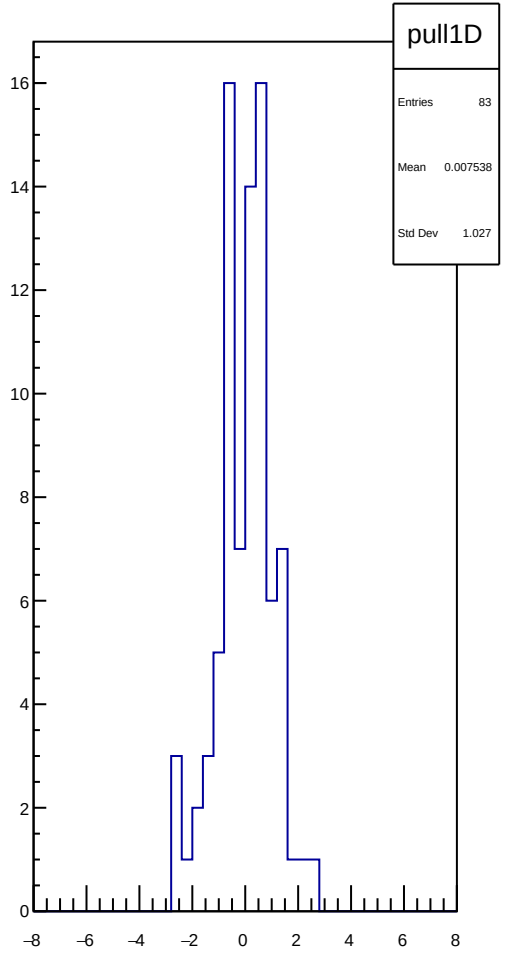

asym_sam_15_26_dd_rms vs run
χ² / ndf 5.477e+04 / 82
p0 298.6 ± 0.2376
550
500
450
400
350
300
250

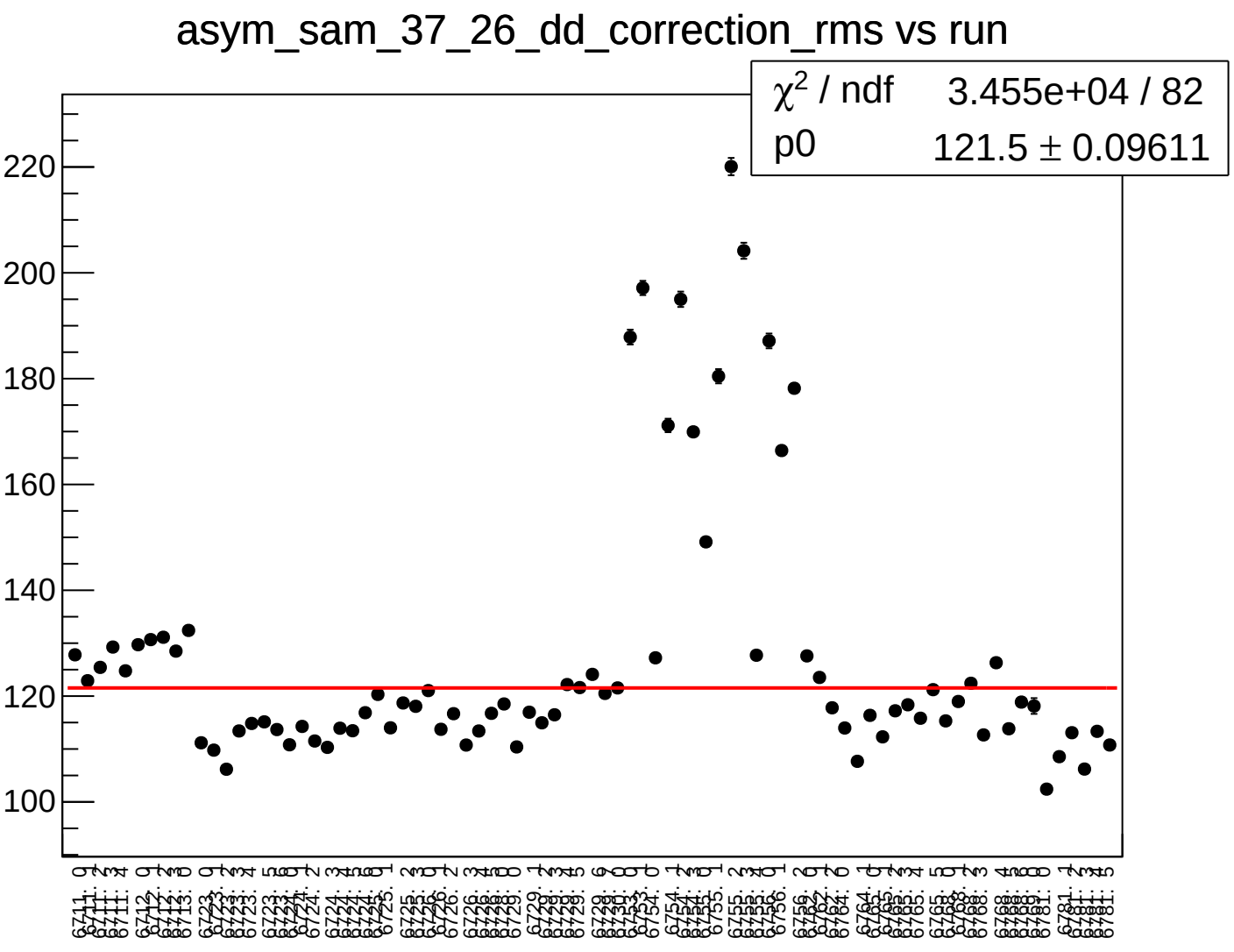

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 69.28 / 82
p0 −154.4 ± 66.15
2000
1000
0
−1000
−2000
−3000
pull
Entries 83
Mean −102.7
Std Dev 147.1
2
1
0
−1
−2

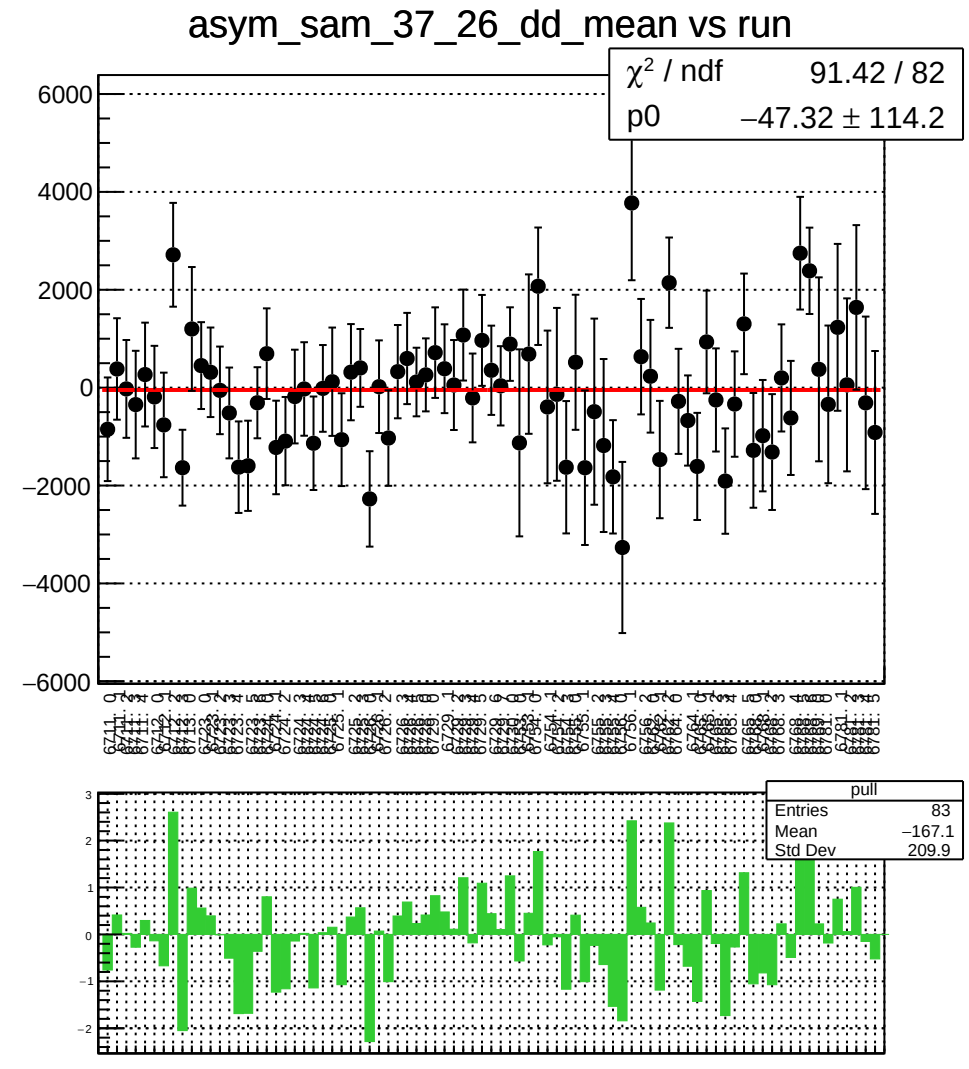

pull1D
Entries 83
Mean −0.01484
Std Dev 0.9135
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

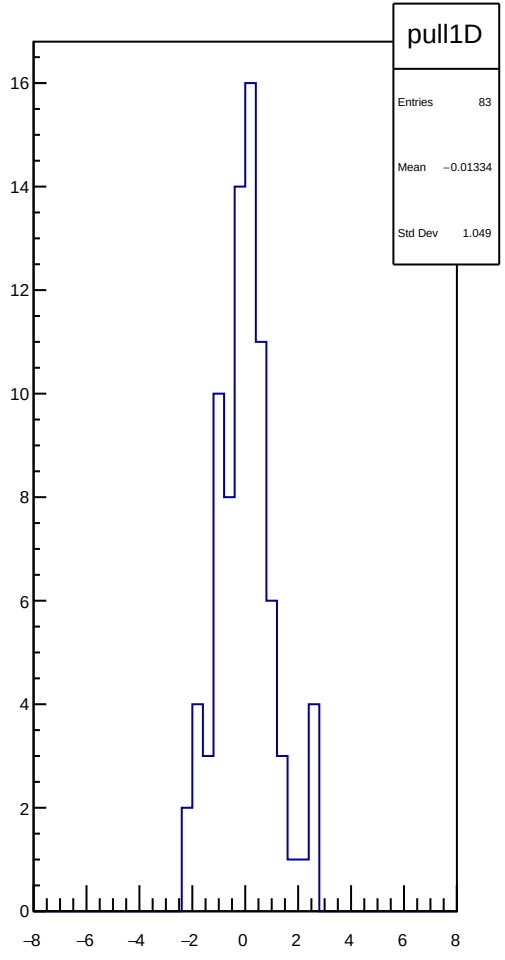

dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 6.693e+04 / 82
p0 58.55 ± 0.04678
100
90
80
70
60
50
40

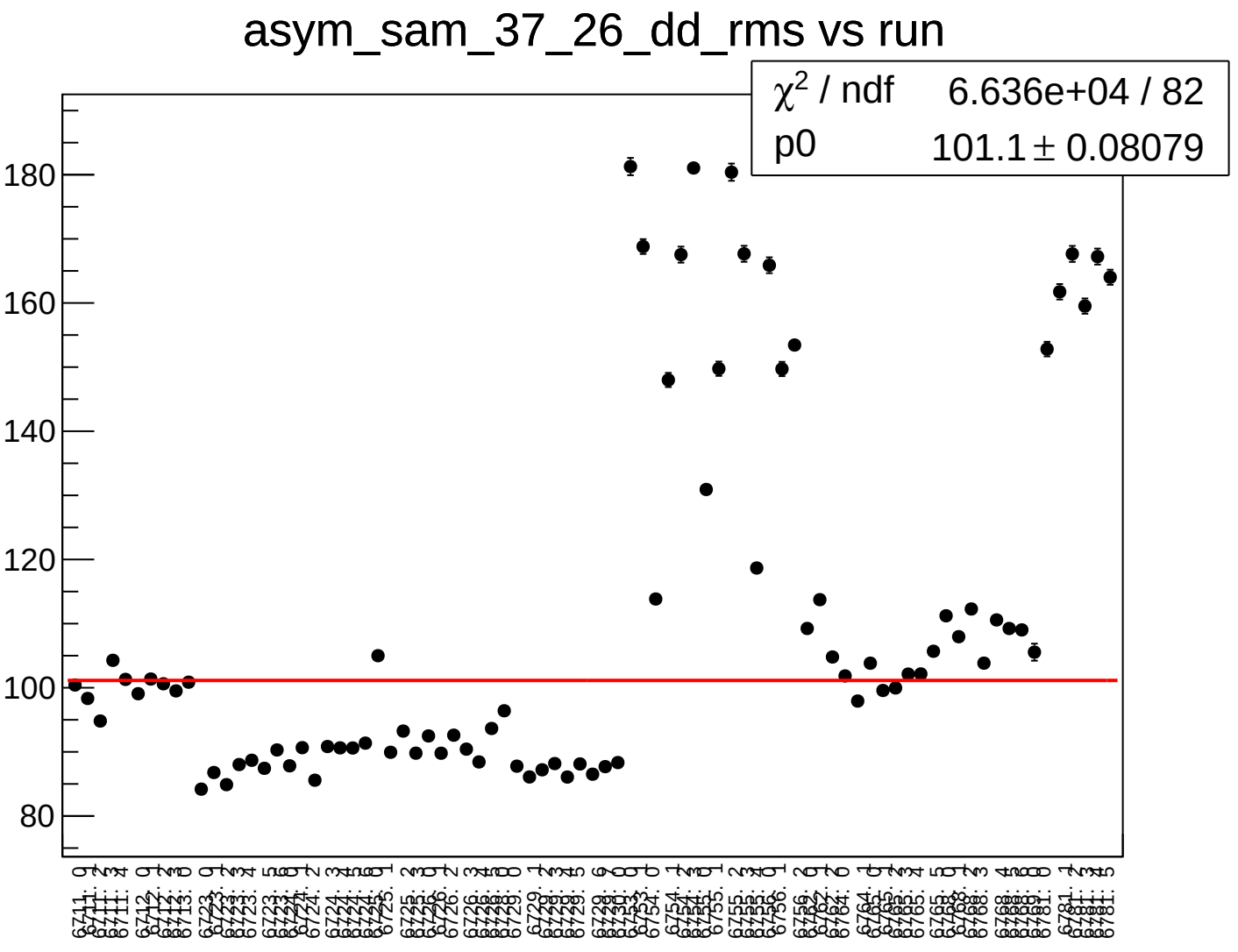

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 87.63 / 82
p0 −124.3 ± 135.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean −136.5
Std Dev 179.3
2
1
0
−1
−2

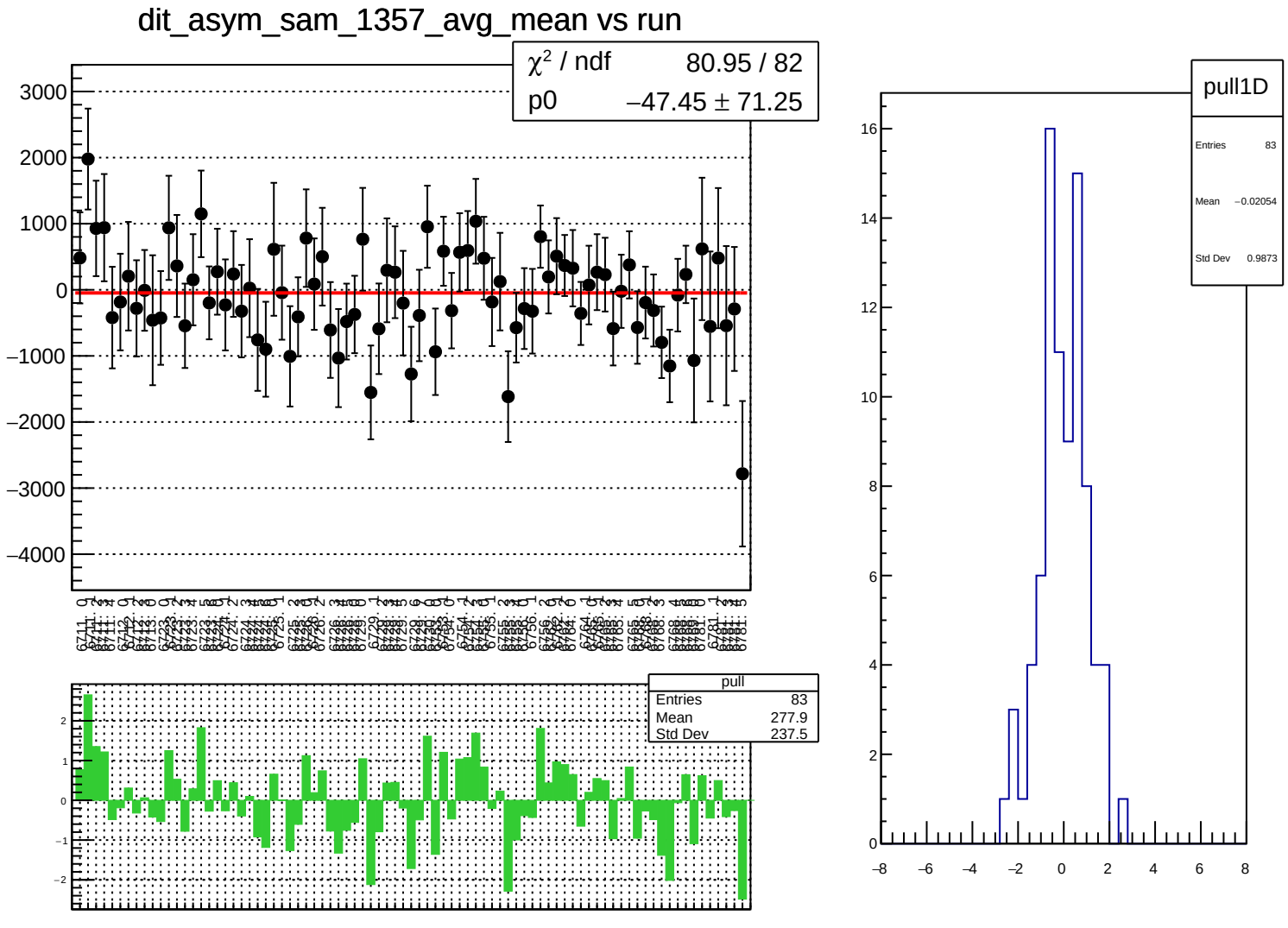

pull1D
Entries 83
Mean 0.007538
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

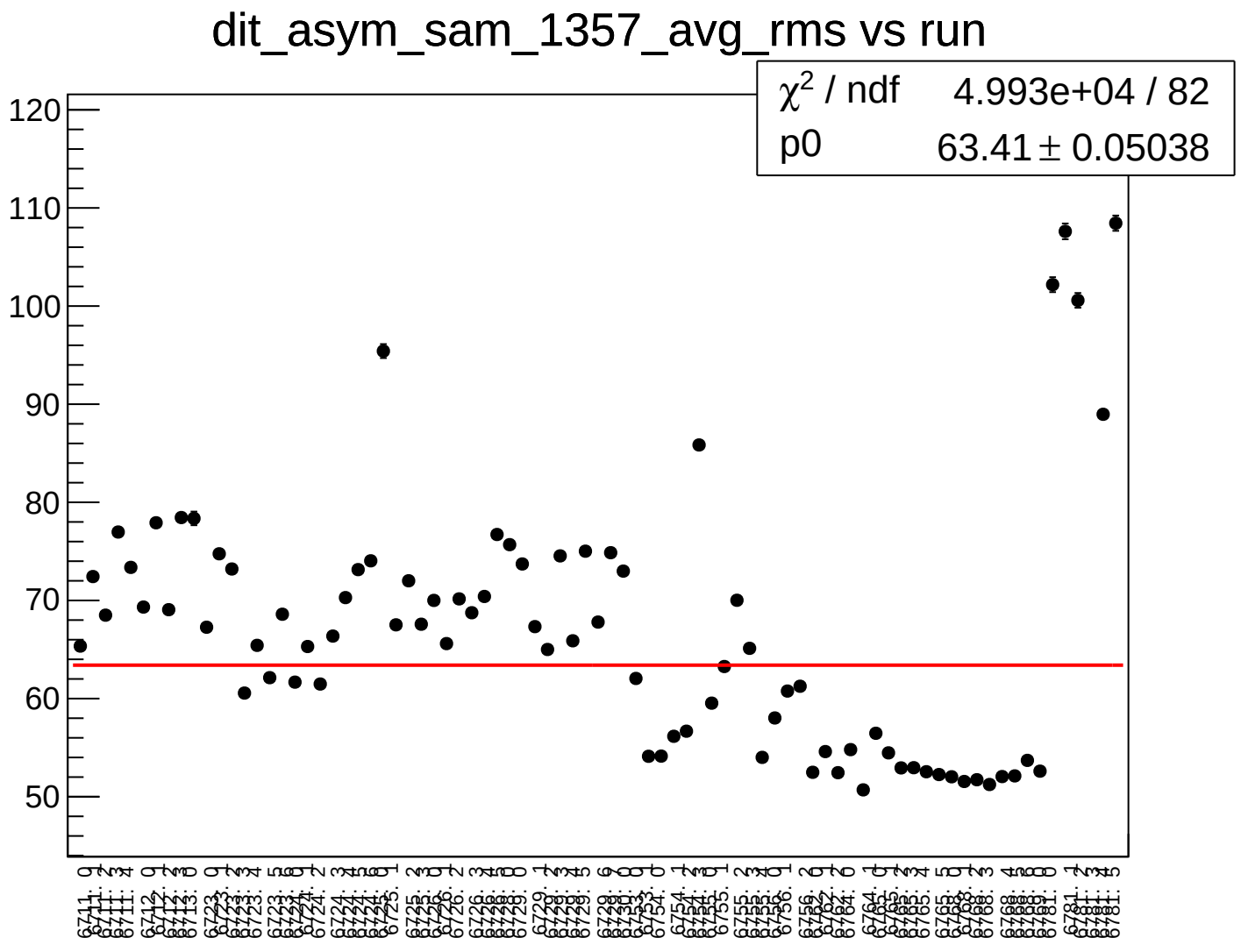

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 3.455e+04 / 82
p0 121.5 ± 0.09611
220
200
180
160
140
120
100

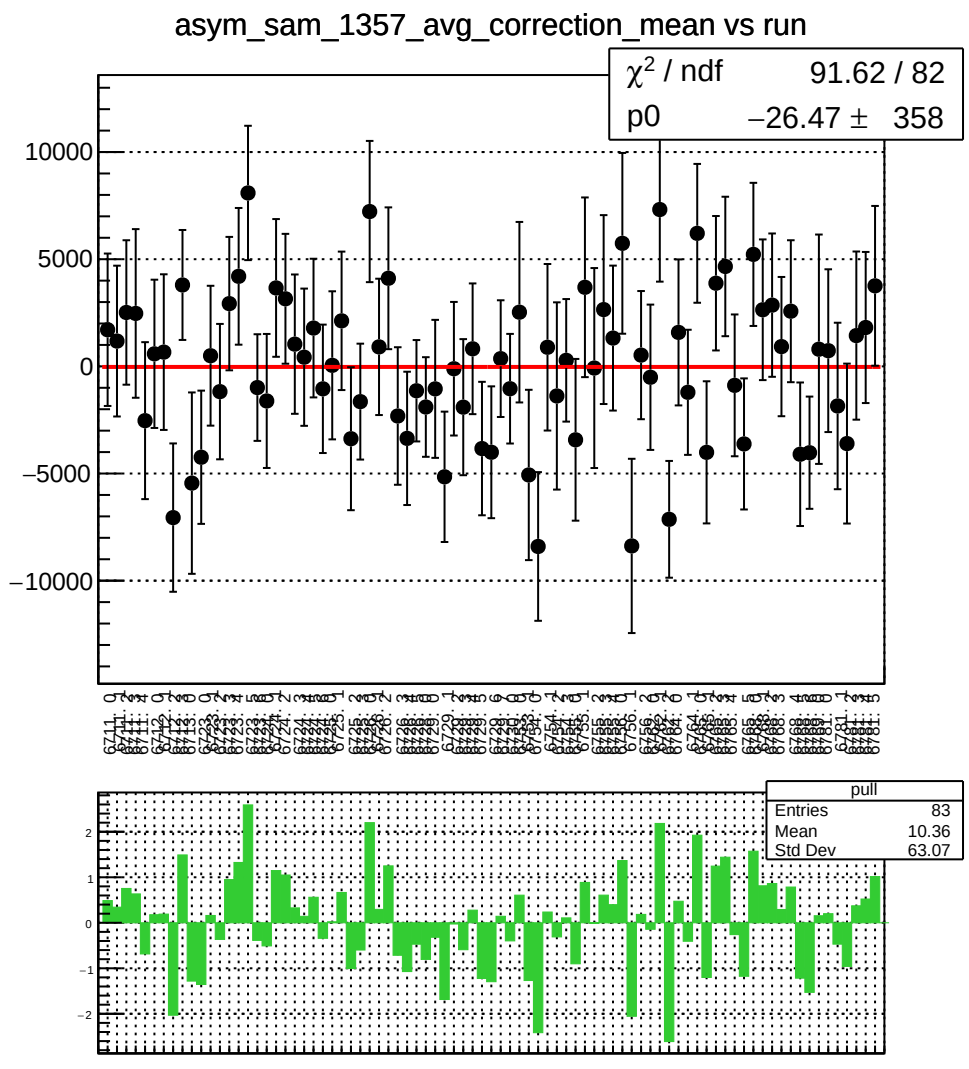

asym_sam_37_26_dd_mean vs run
χ² / ndf 91.42 / 82
p0 −47.32 ± 114.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean −167.1
Std Dev 209.9
3
2
1
0
−1
−2

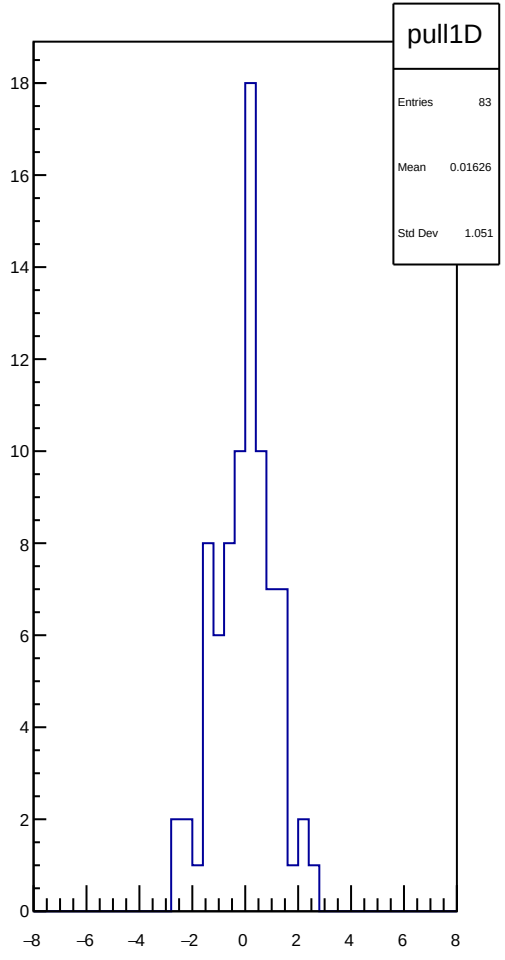

pull1D
Entries 83
Mean −0.01334
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

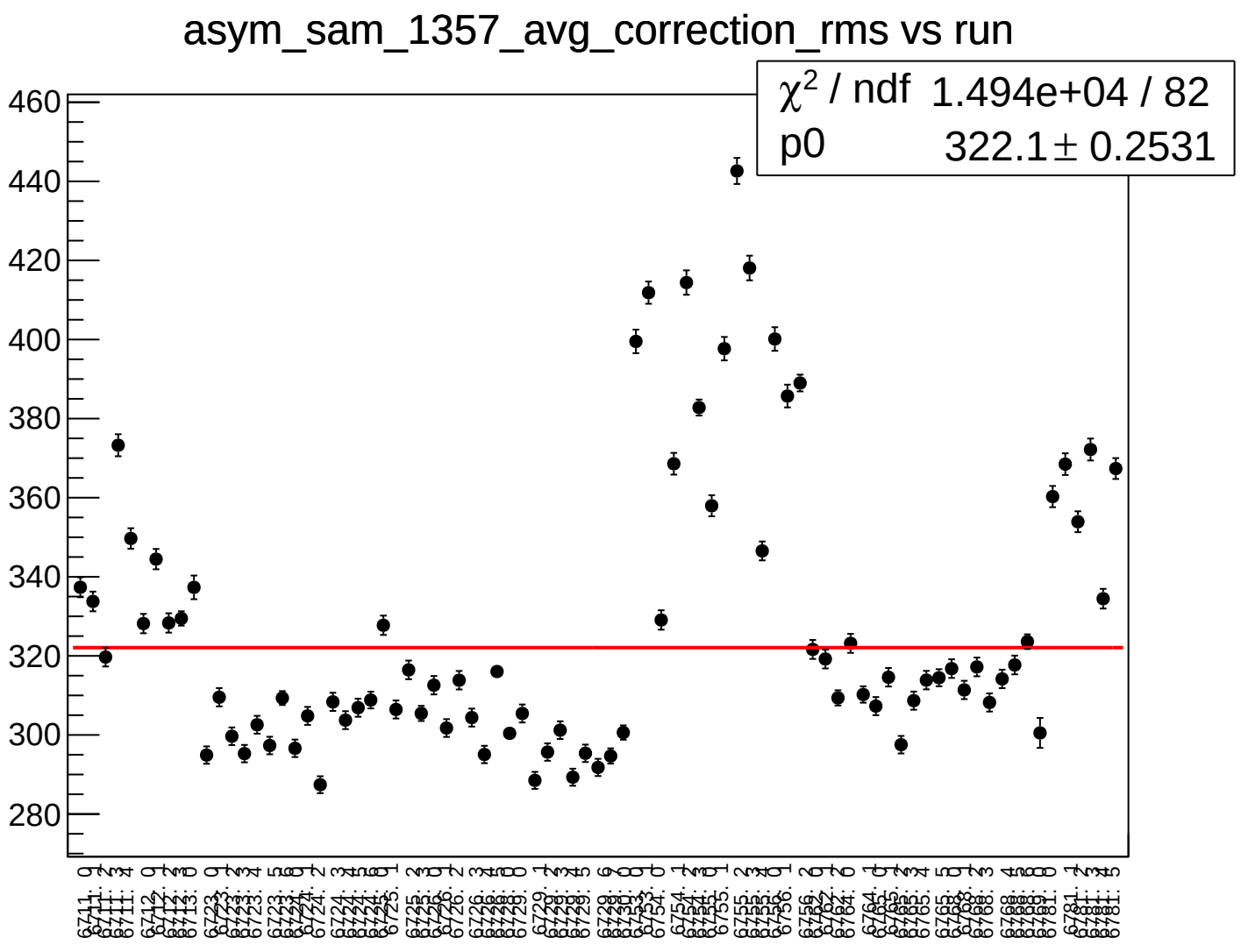

asym_sam_37_26_dd_rms vs run
χ^2 / ndf 6.636e+04 / 82
p0 101.1 ± 0.08079
180
160
140
120
100
80

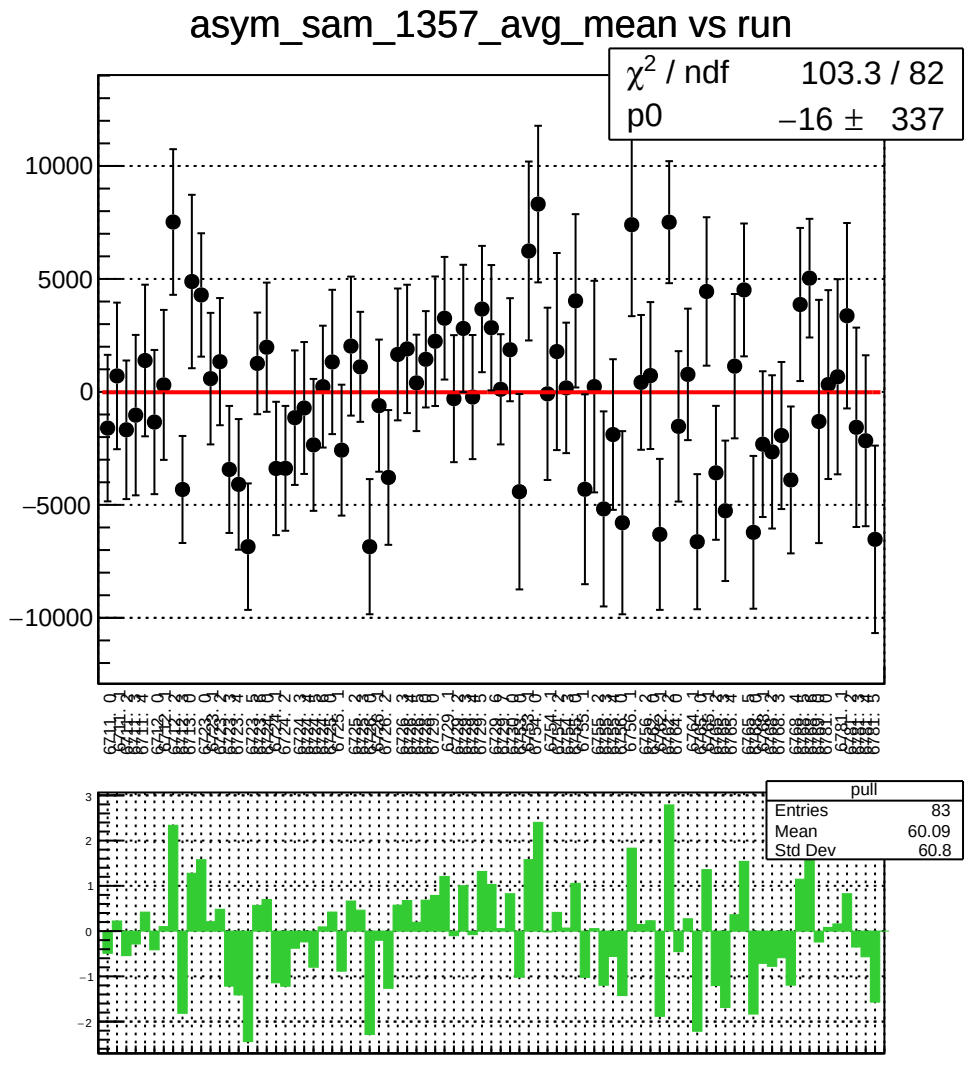

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 80.95 / 82
p0 −47.45 ± 71.25
pull
Entries 83
Mean 277.9
Std Dev 237.5
pull1D
Entries 83
Mean −0.02054
Std Dev 0.9873

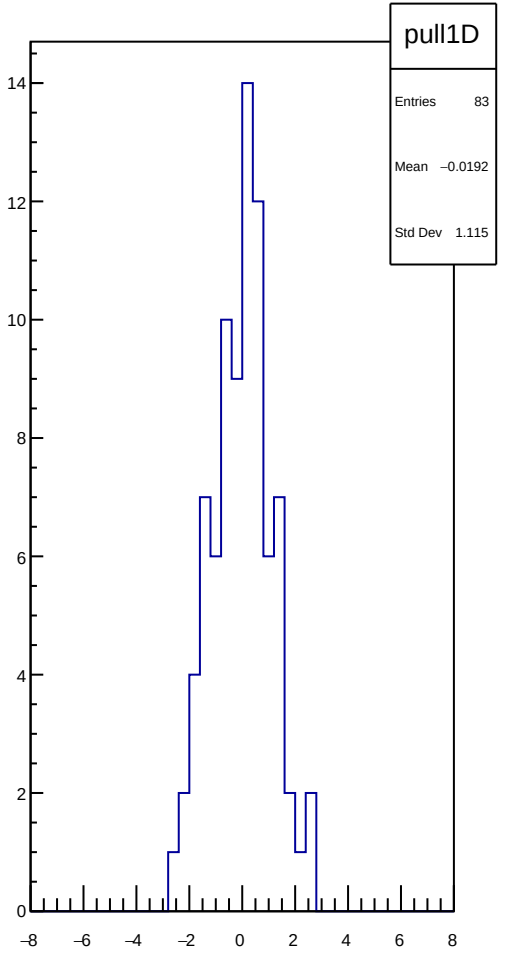

dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 4.993e+04 / 82
p0 63.41 ± 0.05038
120
110
100
90
80
70
60
50

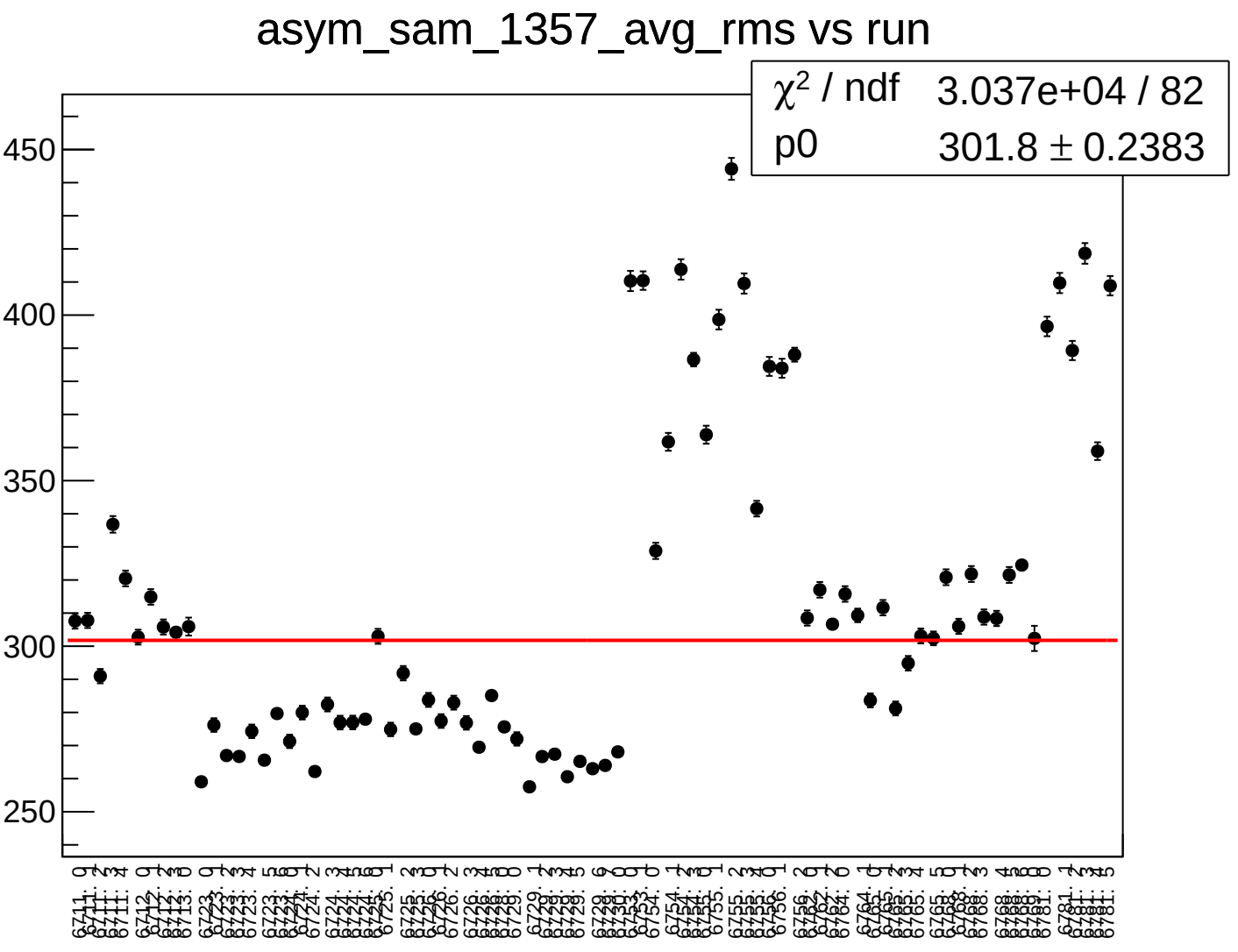

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 91.62 / 82
p0 −26.47 ± 358
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 10.36
Std Dev 63.07
2
1
0
−1
−2

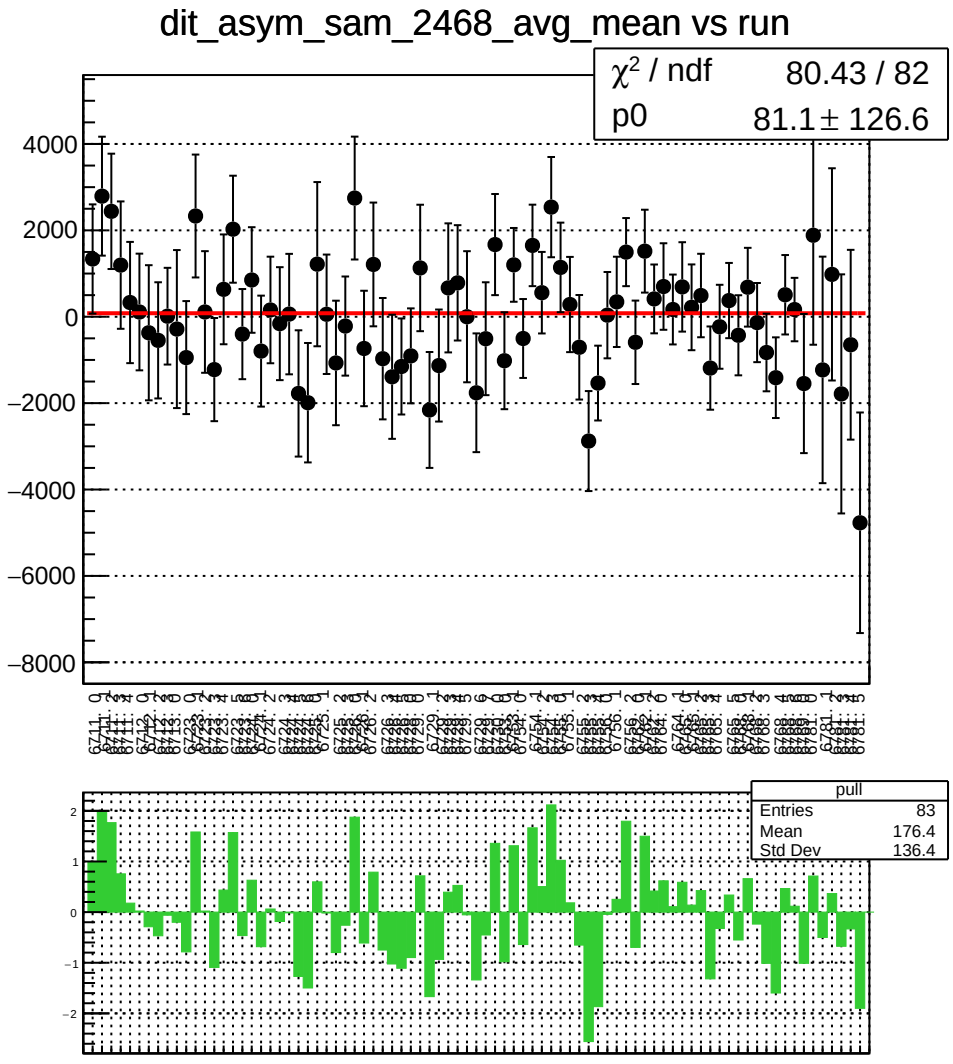

pull1D
Entries 83
Mean 0.01626
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

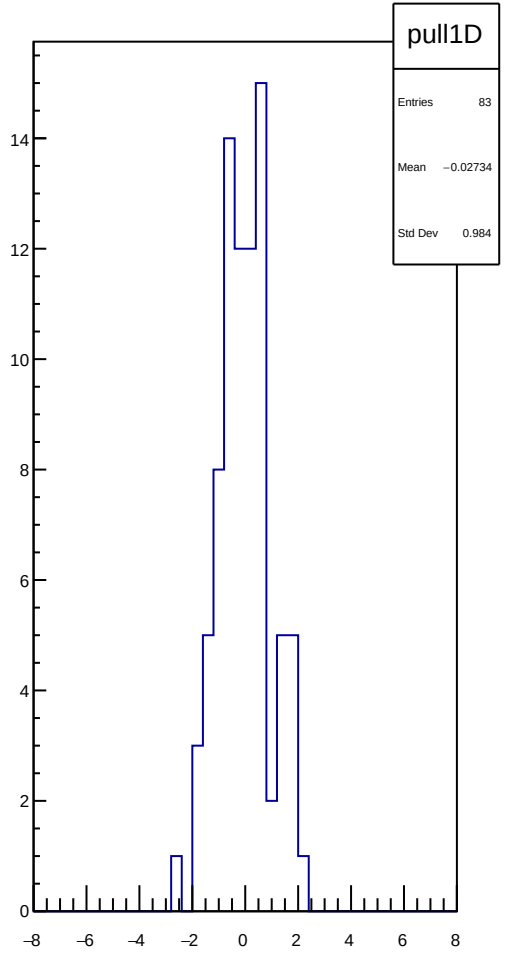

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 1.494e+04 / 82
p0 322.1 ± 0.2531
460
440
420
400
380
360
340
320
300
280

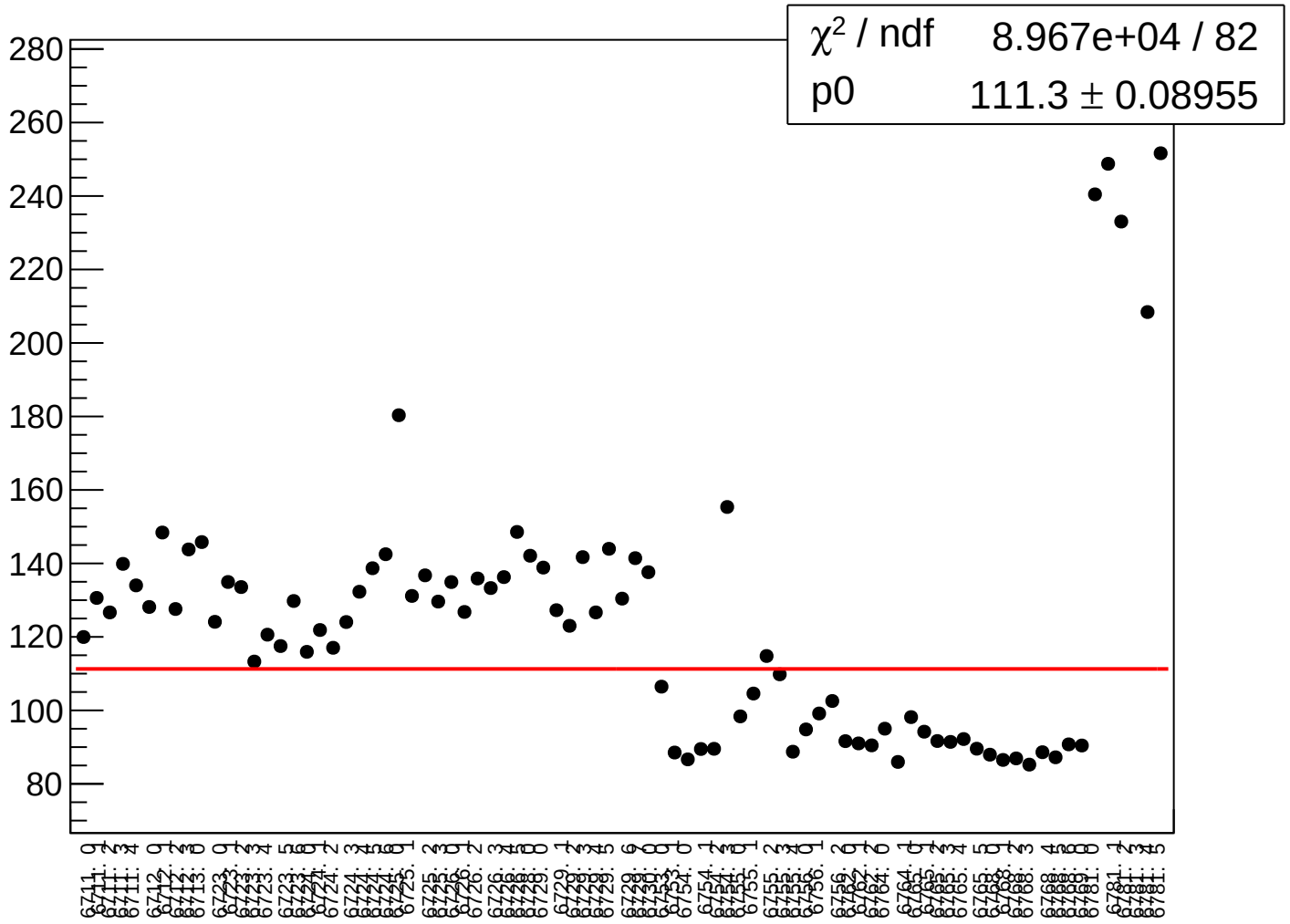

asym_sam_1357_avg_mean vs run
χ² / ndf 103.3 / 82
p0 −16 ± 337
10000
5000
0
−5000
−10000
pull
Entries 83
Mean 60.09
Std Dev 60.8
3
2
1
0
−1
−2

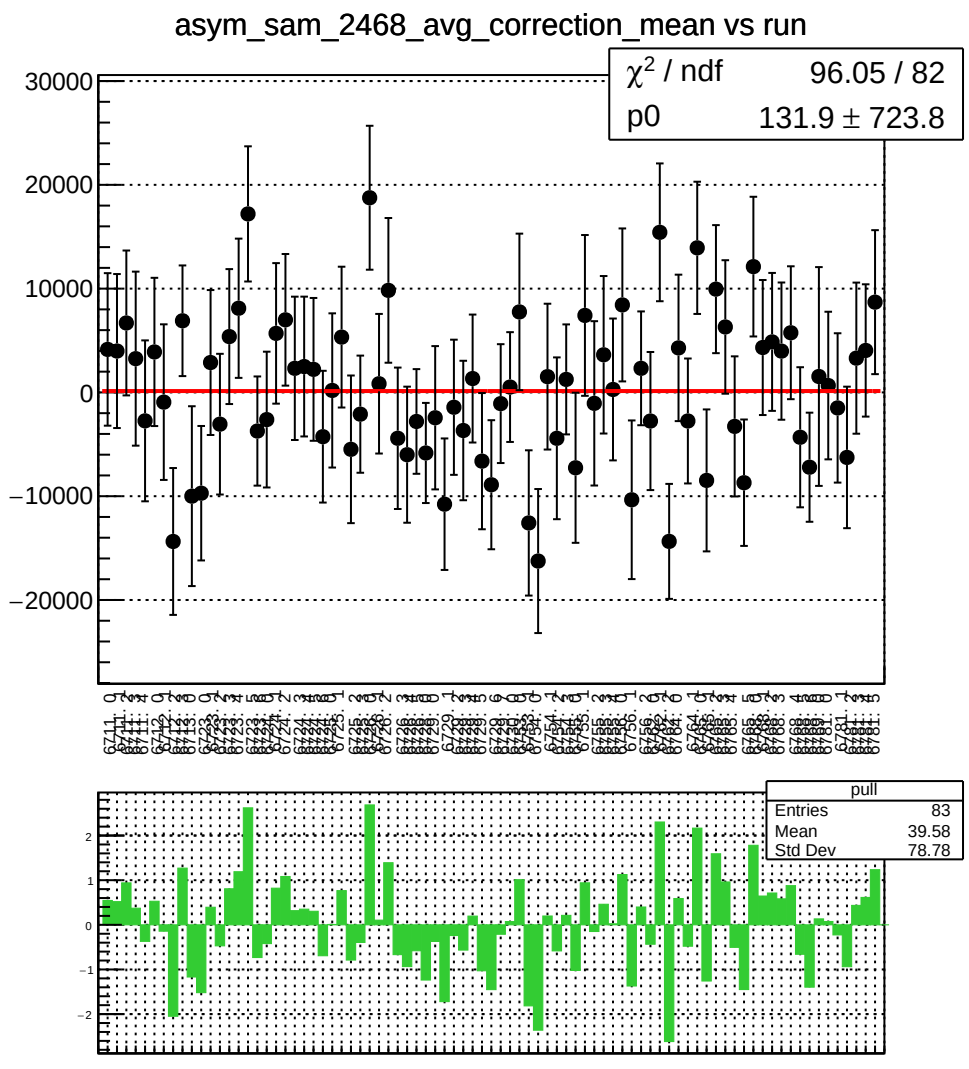

pull1D
Entries 83
Mean −0.0192
Std Dev 1.115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

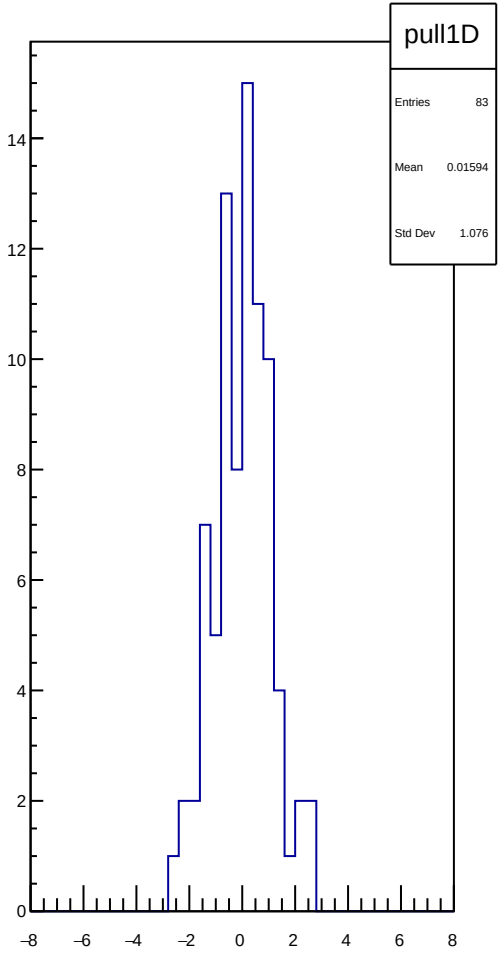

asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.037e+04 / 82
p0 301.8 ± 0.2383
450
400
350
300
250

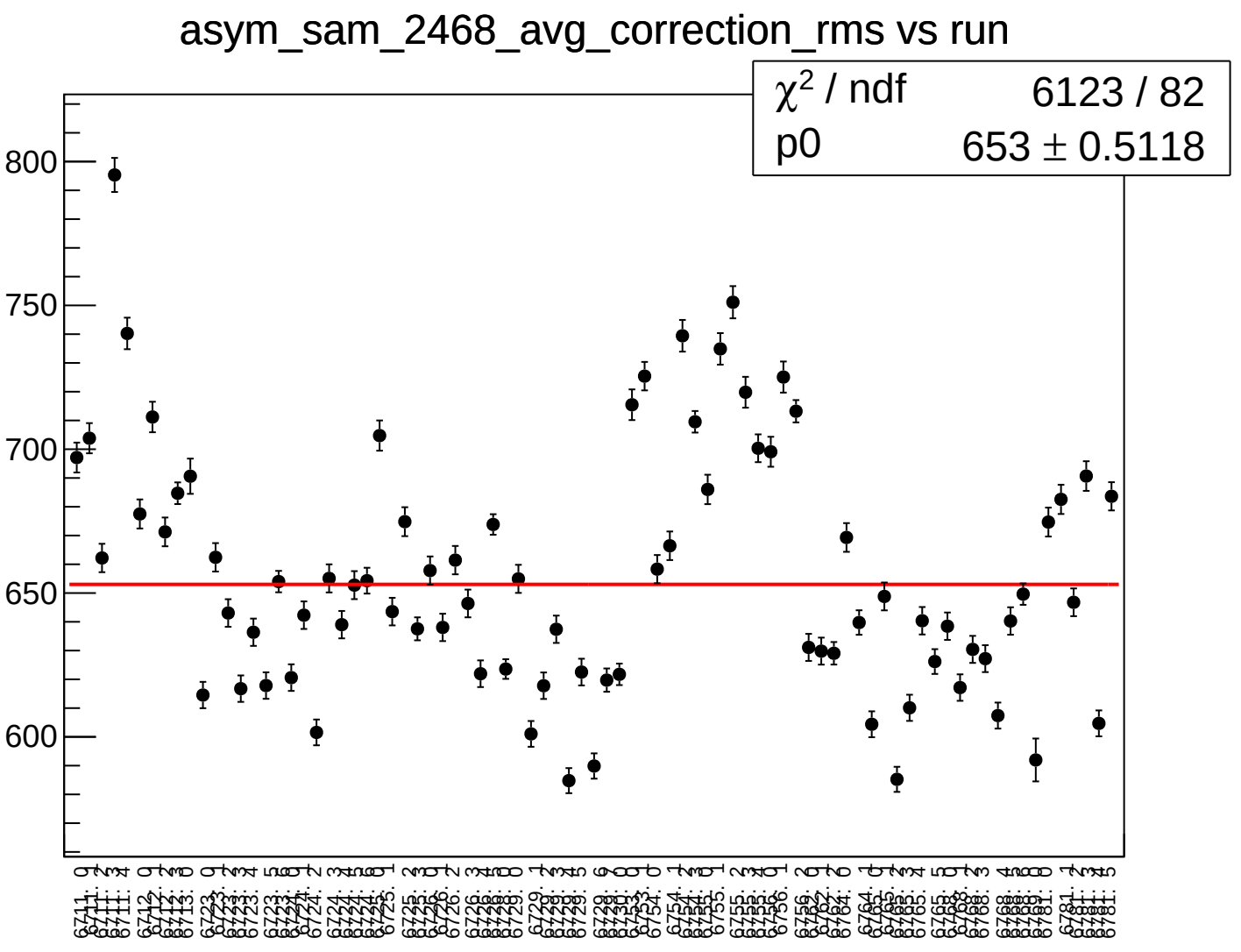

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 80.43 / 82
p0 81.1 ± 126.6
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 83
Mean 176.4
Std Dev 136.4
2
1
0
−1
−2

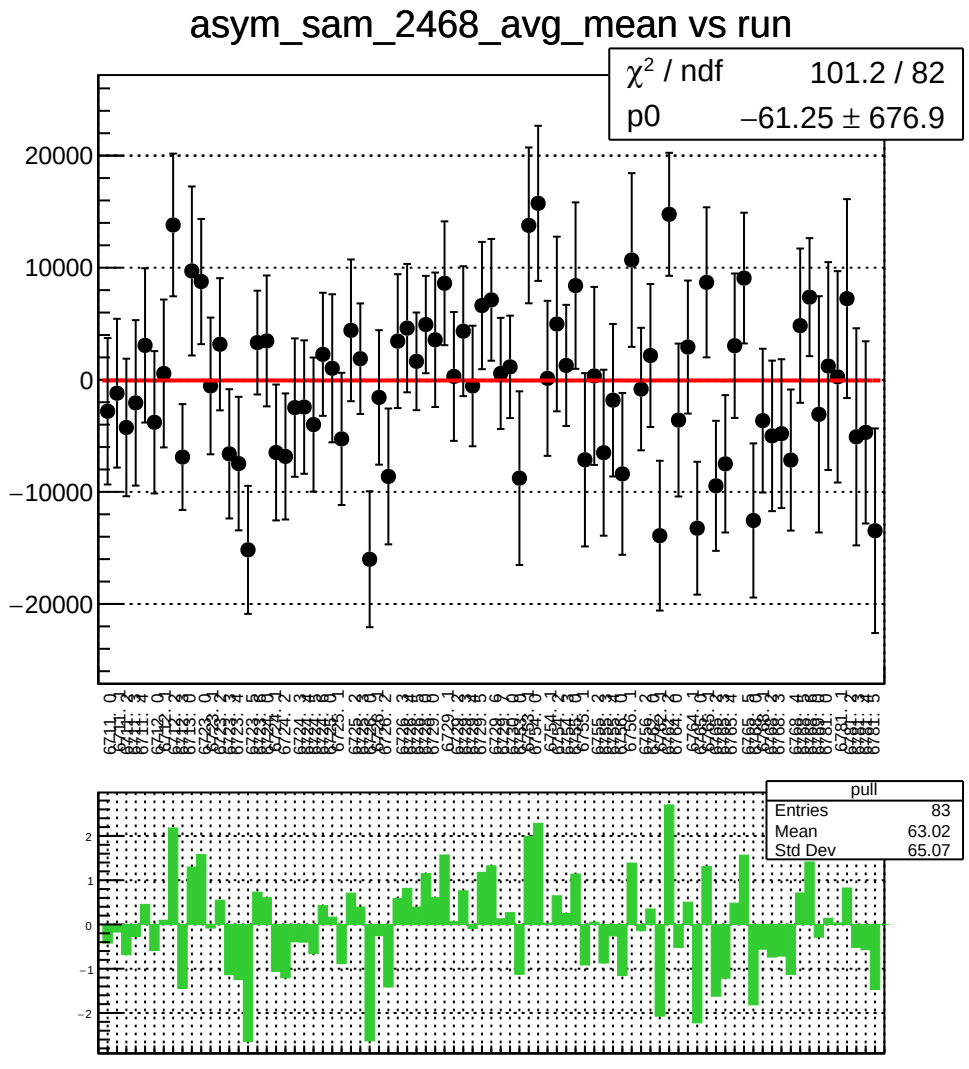

pull1D
Entries 83
Mean −0.02734
Std Dev 0.984
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

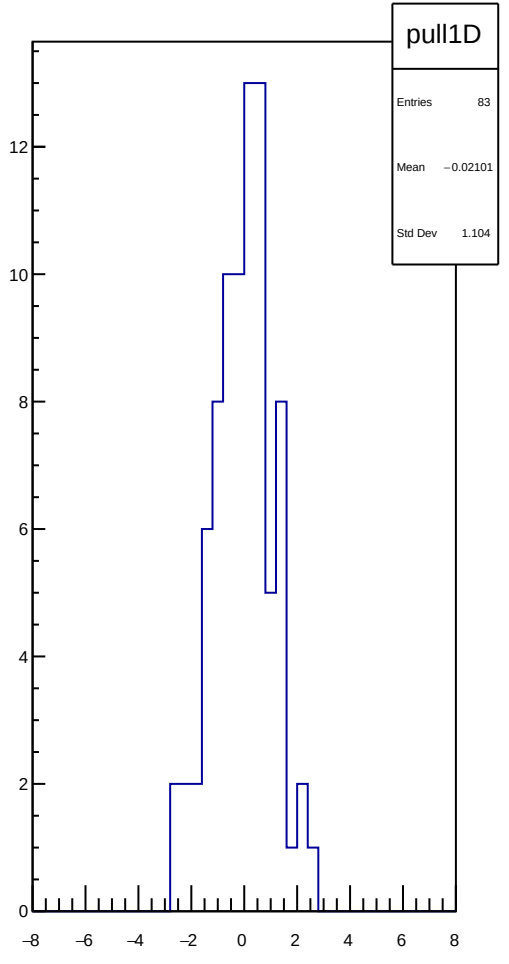

dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 8.967e+04 / 82
p0 111.3 ± 0.08955
280
260
240
220
200
180
160
140
120
100
80

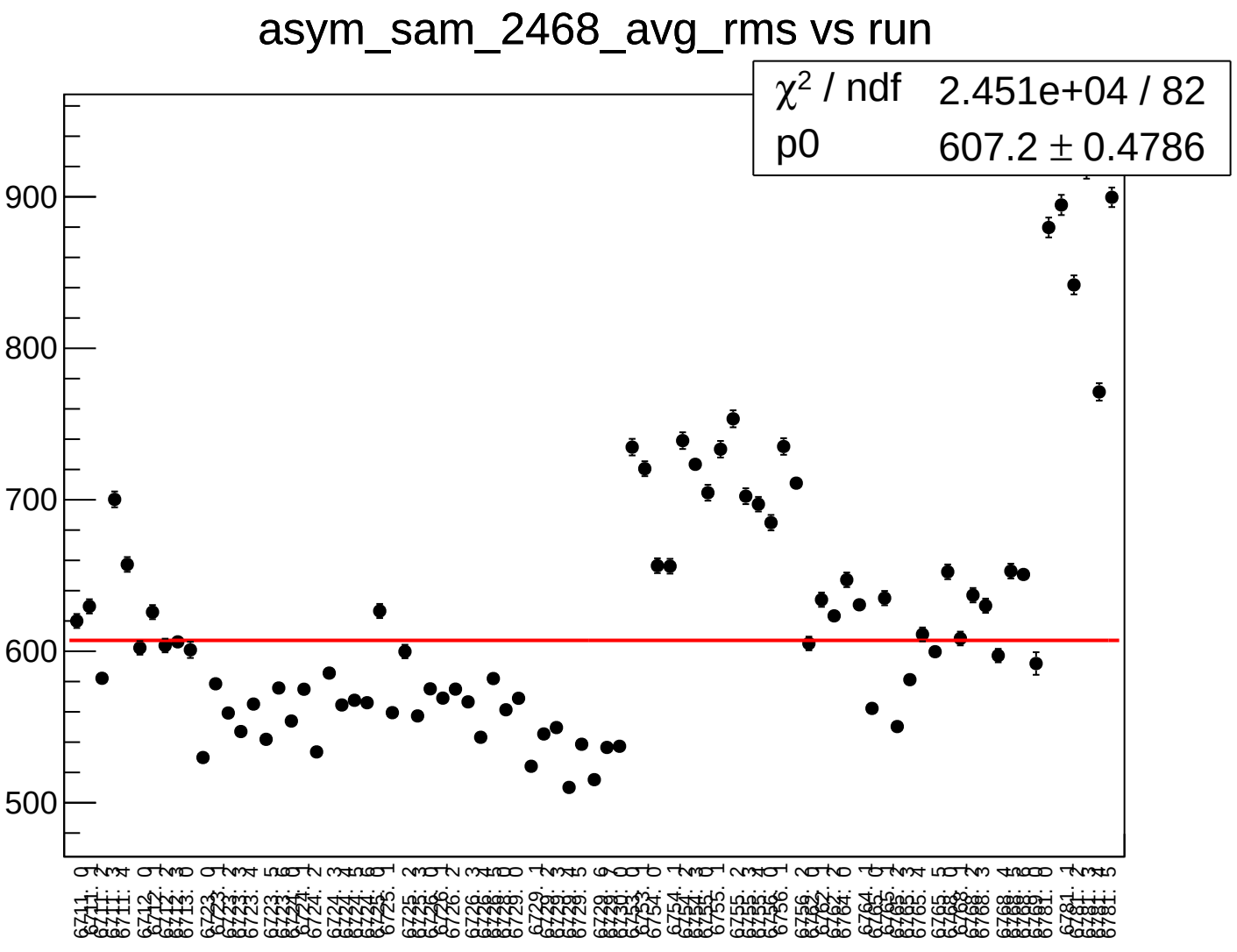

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 96.05 / 82
p0 131.9 ± 723.8
pull
Entries 83
Mean 39.58
Std Dev 78.78

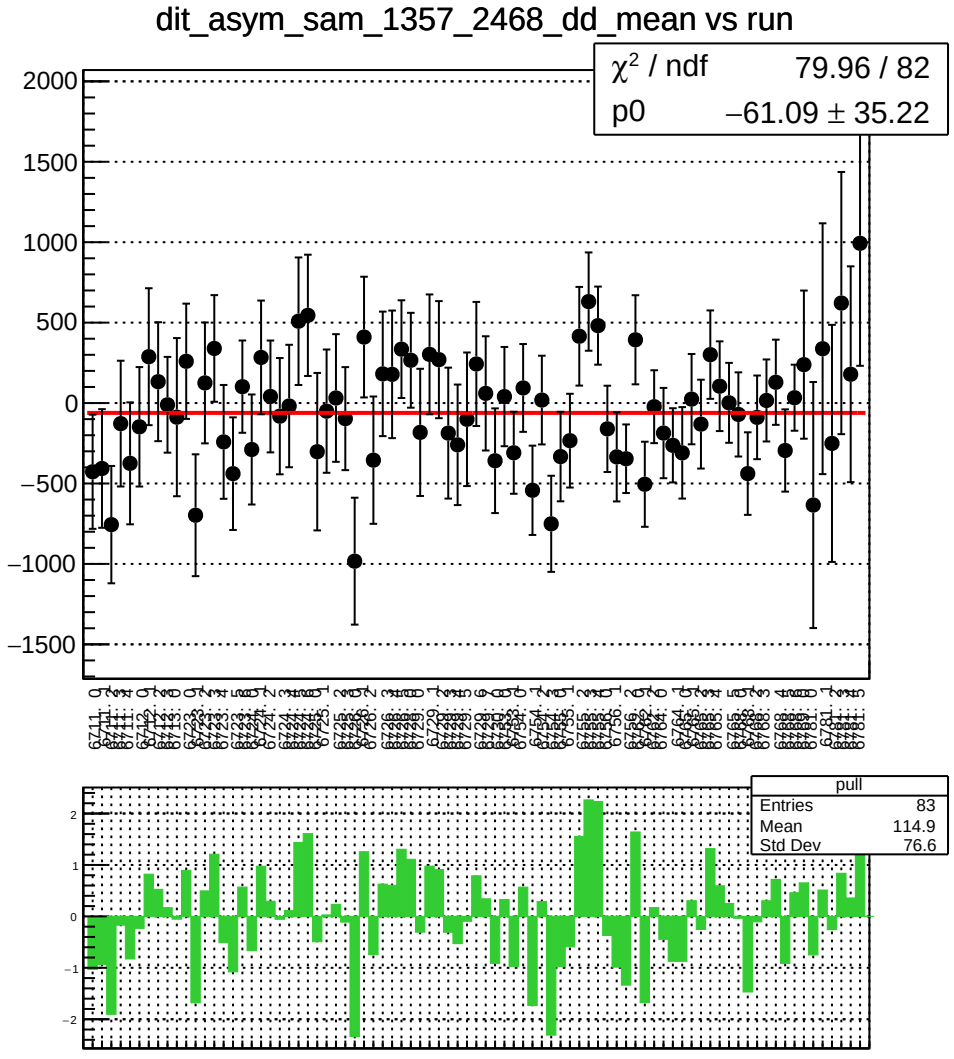

pull1D
Entries 83
Mean 0.01594
Std Dev 1.076

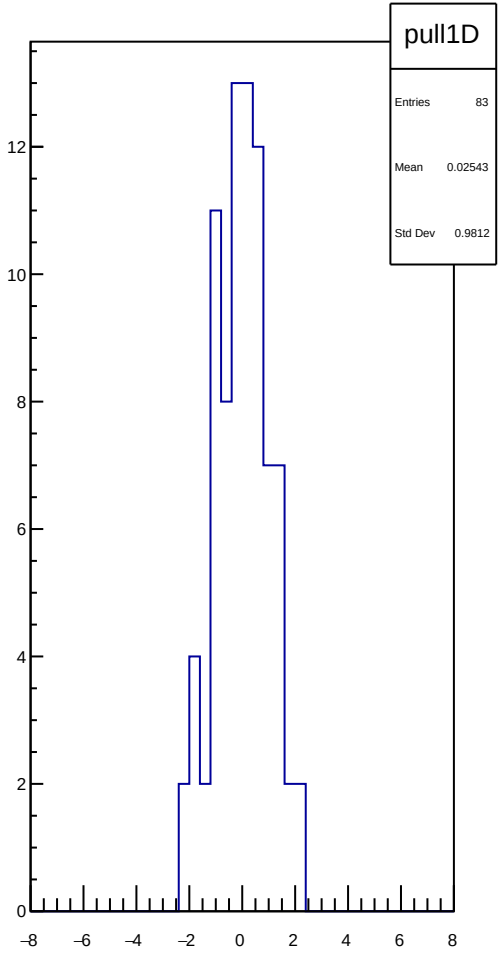

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 6123 / 82
p0 653 ± 0.5118
800
750
700
650
600

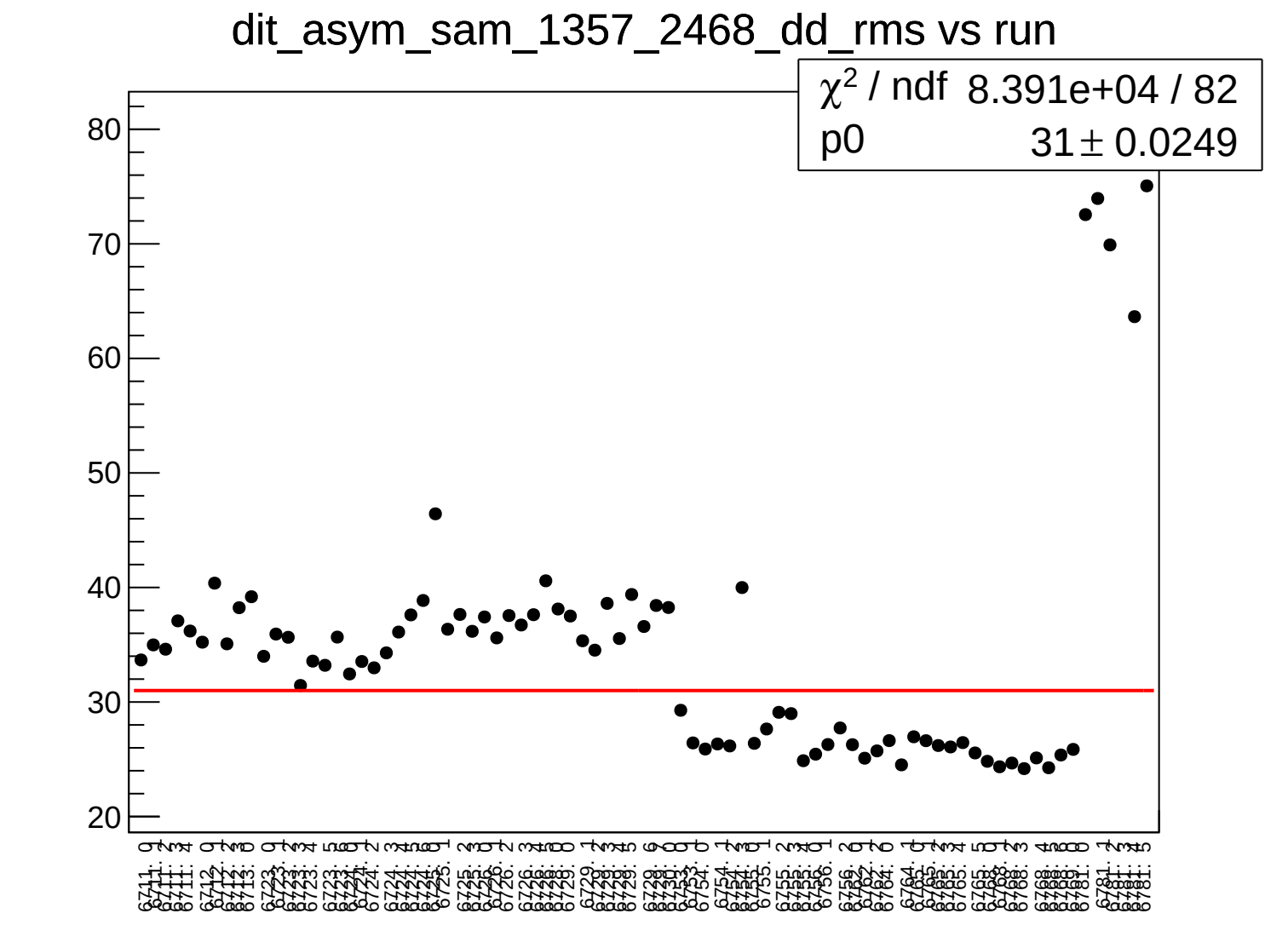

asym_sam_2468_avg_mean vs run
χ² / ndf 101.2 / 82
p0 −61.25 ± 676.9
20000
10000
0
−10000
−20000
pull
Entries 83
Mean 63.02
Std Dev 65.07
2
1
0
−1
−2


pull1D
Entries 83
Mean −0.02101
Std Dev 1.104
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

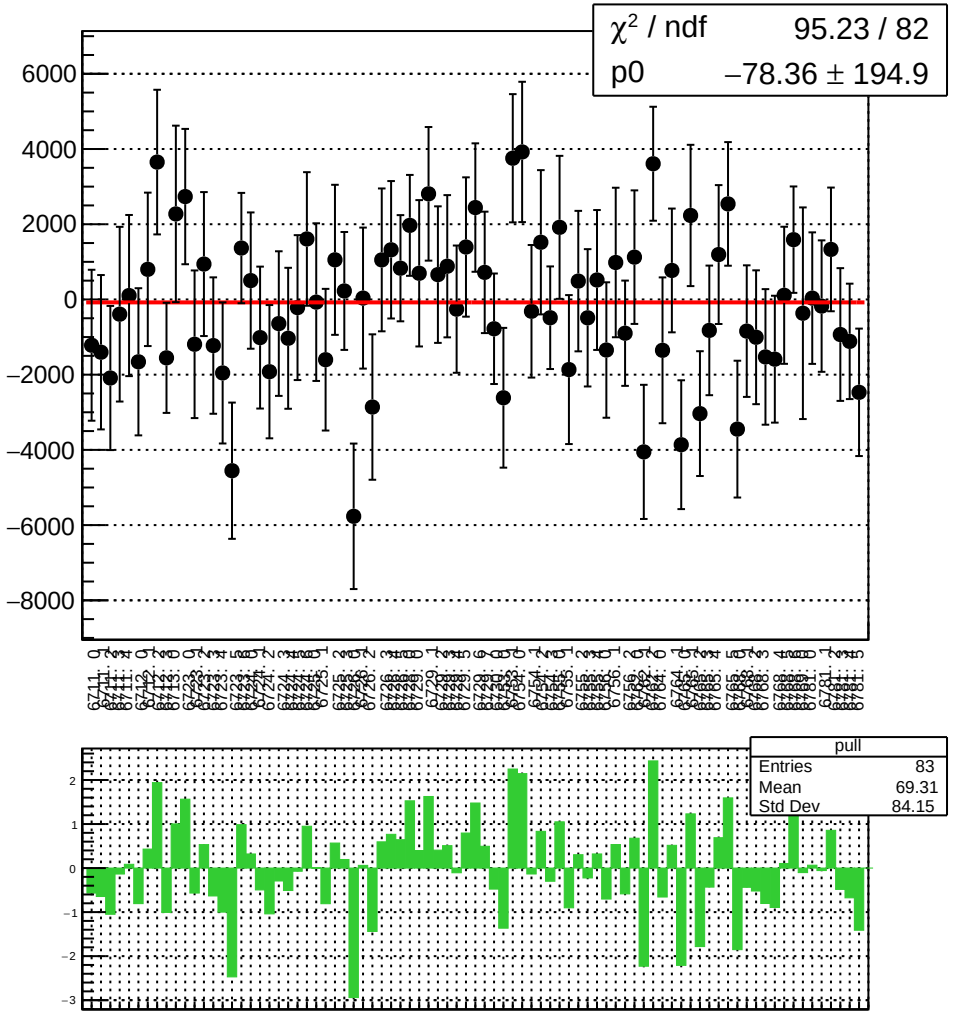

asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.451e+04 / 82
p0 607.2 ± 0.4786
900
800
700
600
500

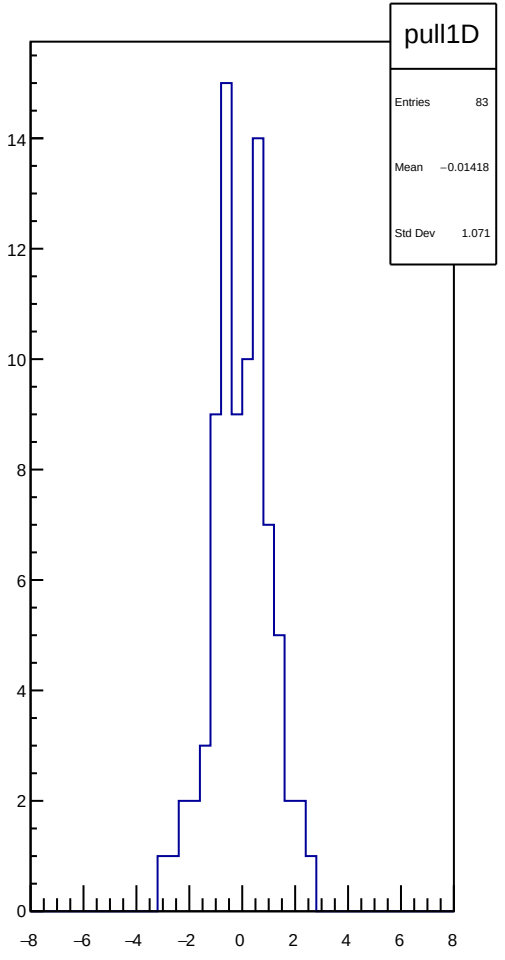

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 79.96 / 82
p0 −61.09 ± 35.22
pull
Entries 83
Mean 114.9
Std Dev 76.6

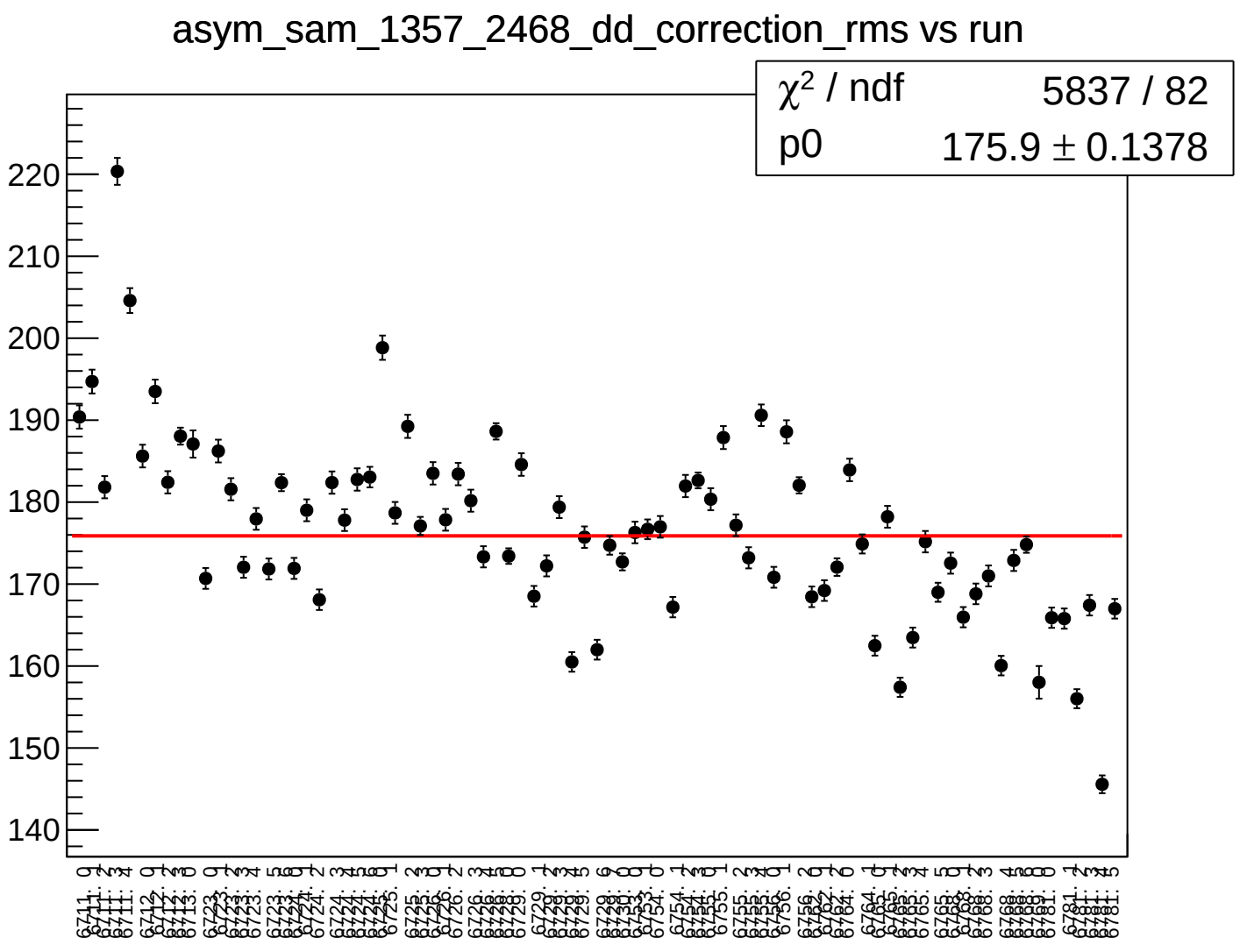

pull1D
Entries 83
Mean 0.02543
Std Dev 0.9812

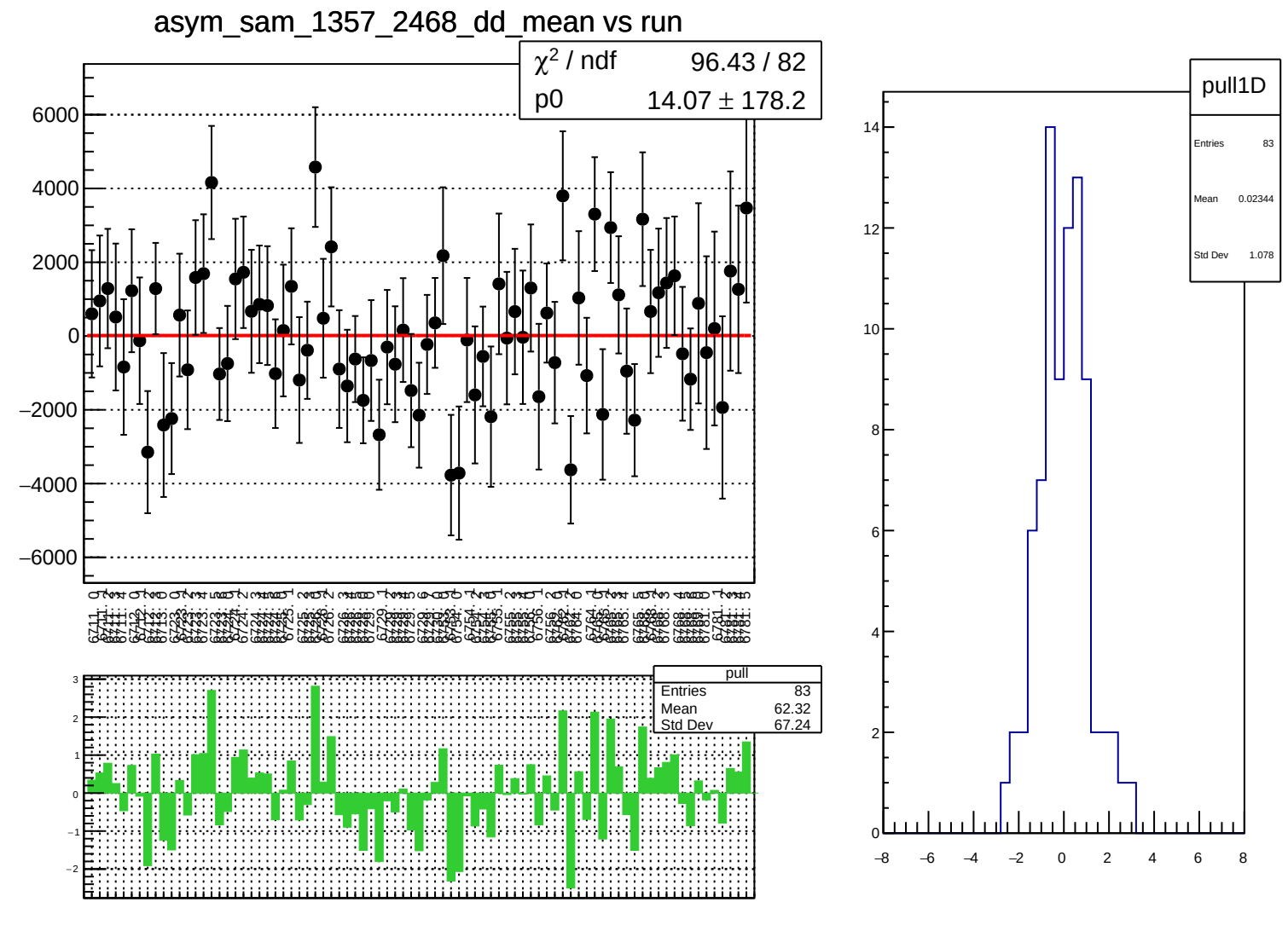

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 8.391e+04 / 82
p0 31 ± 0.0249
80
70
60
50
40
30
20

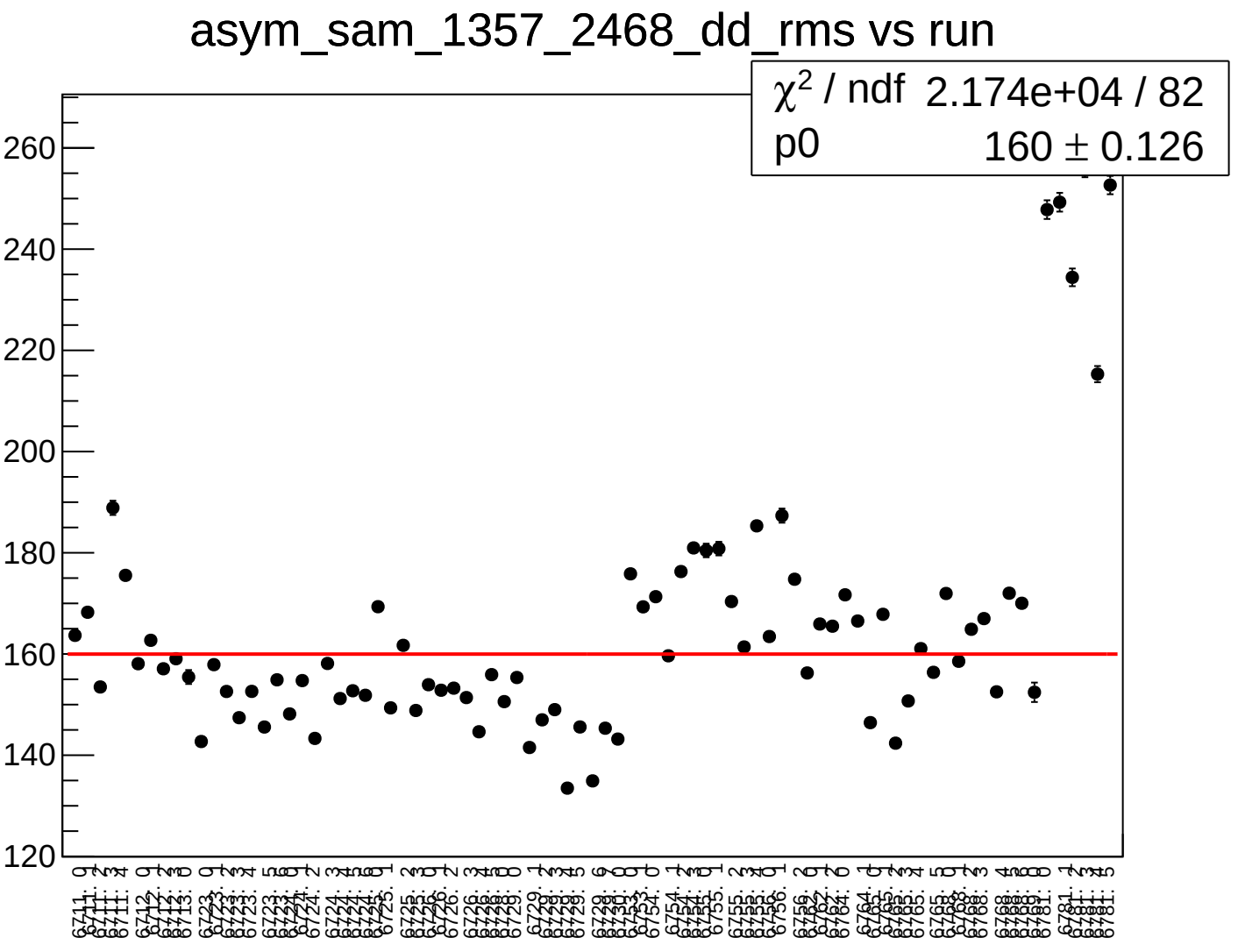
asym_sam_1357_2468_dd_correction_mean vs run

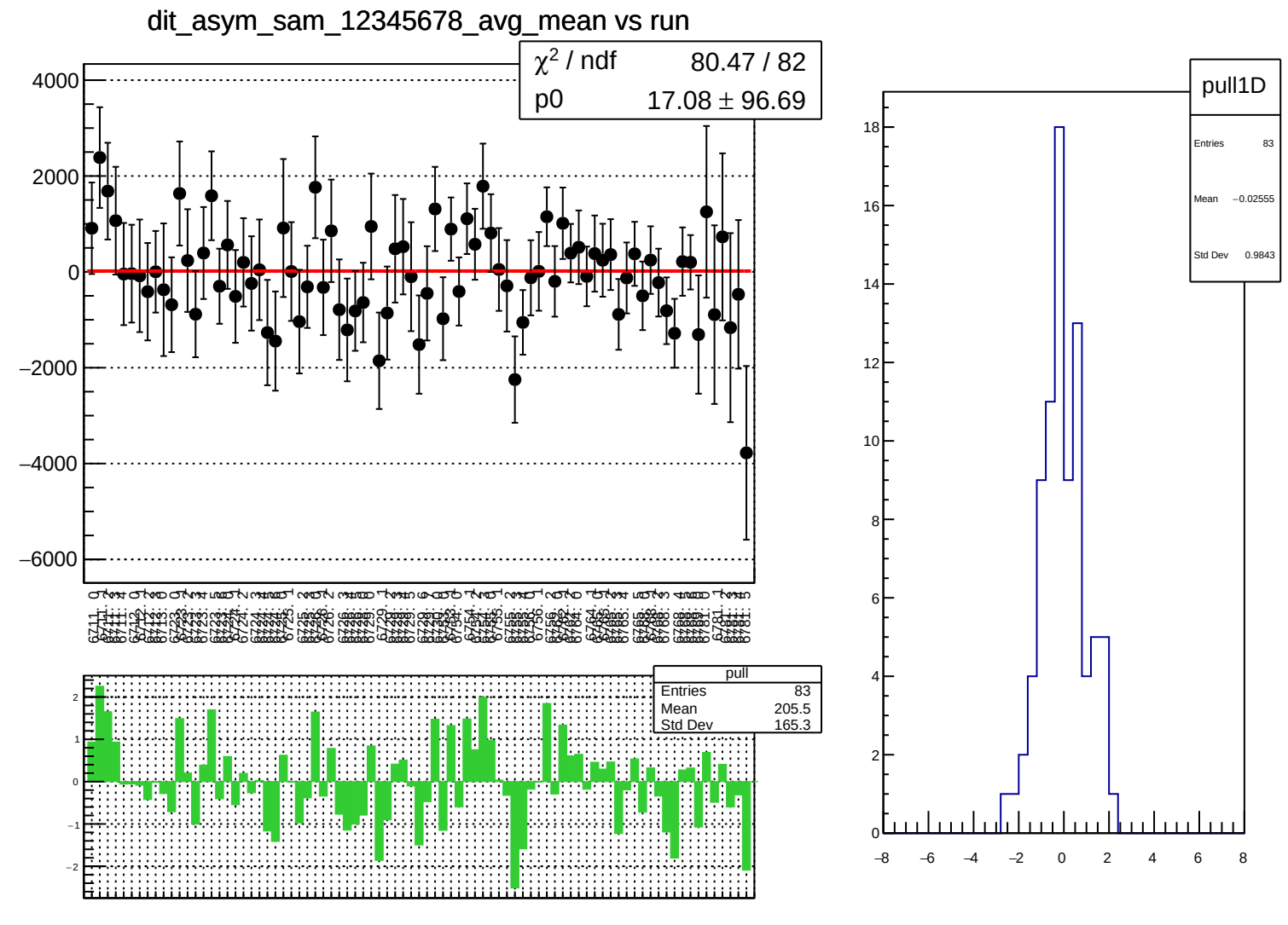


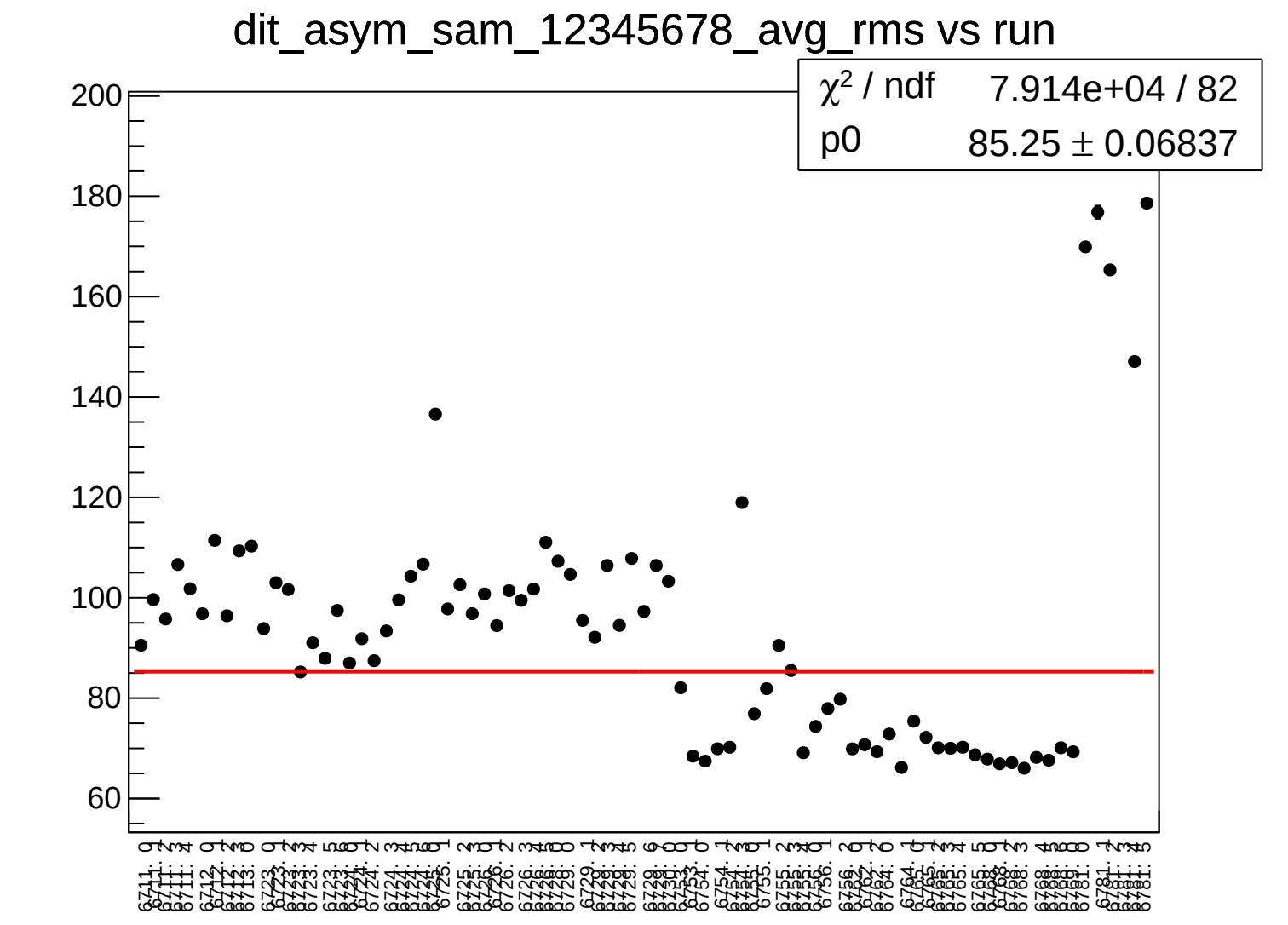


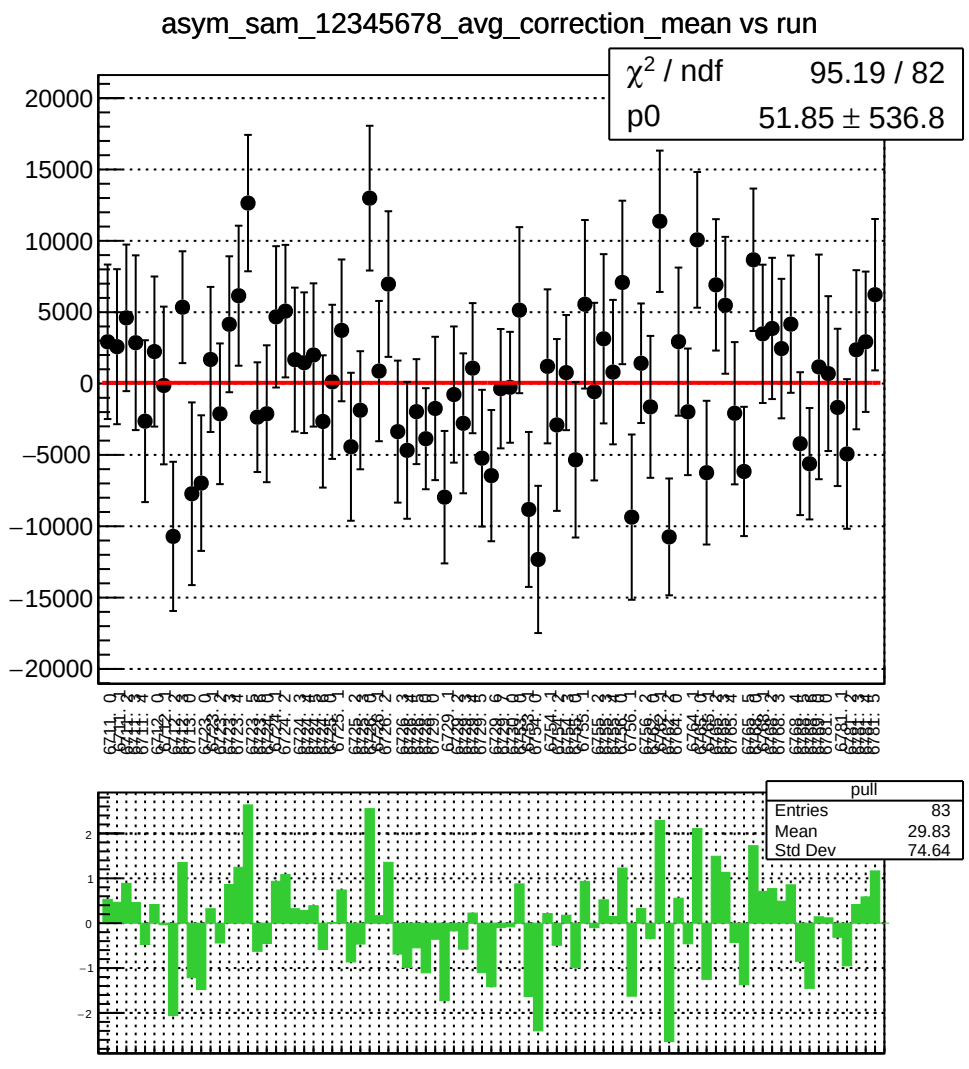

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 5837 / 82
p0 175.9 ± 0.1378
220
210
200
190
180
170
160
150
140

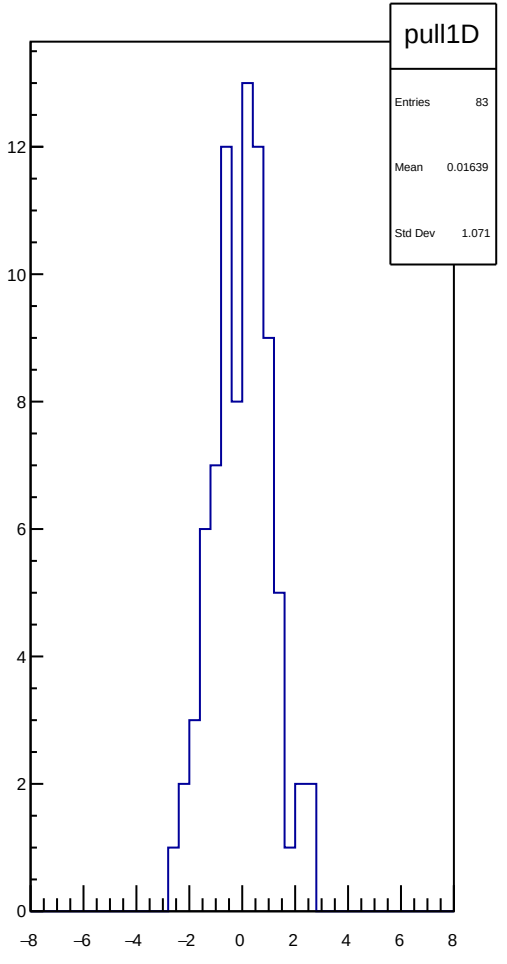

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 96.43 / 82
p0 14.07 ± 178.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean 62.32
Std Dev 67.24
3
2
1
0
−1
−2
pull1D
Entries 83
Mean 0.02344
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

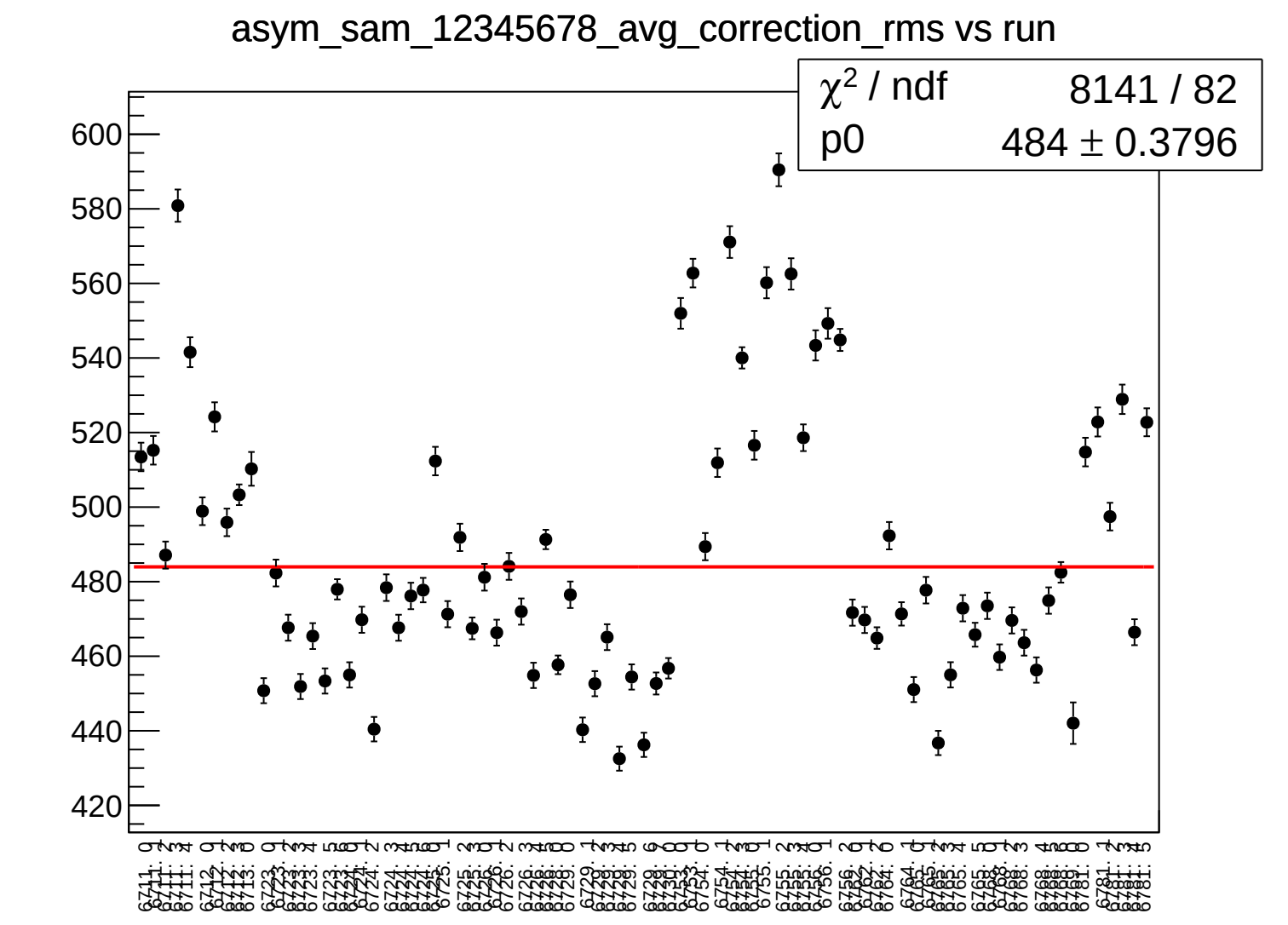

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.174e+04 / 82
p0 160 ± 0.126
260
240
220
200
180
160
140
120

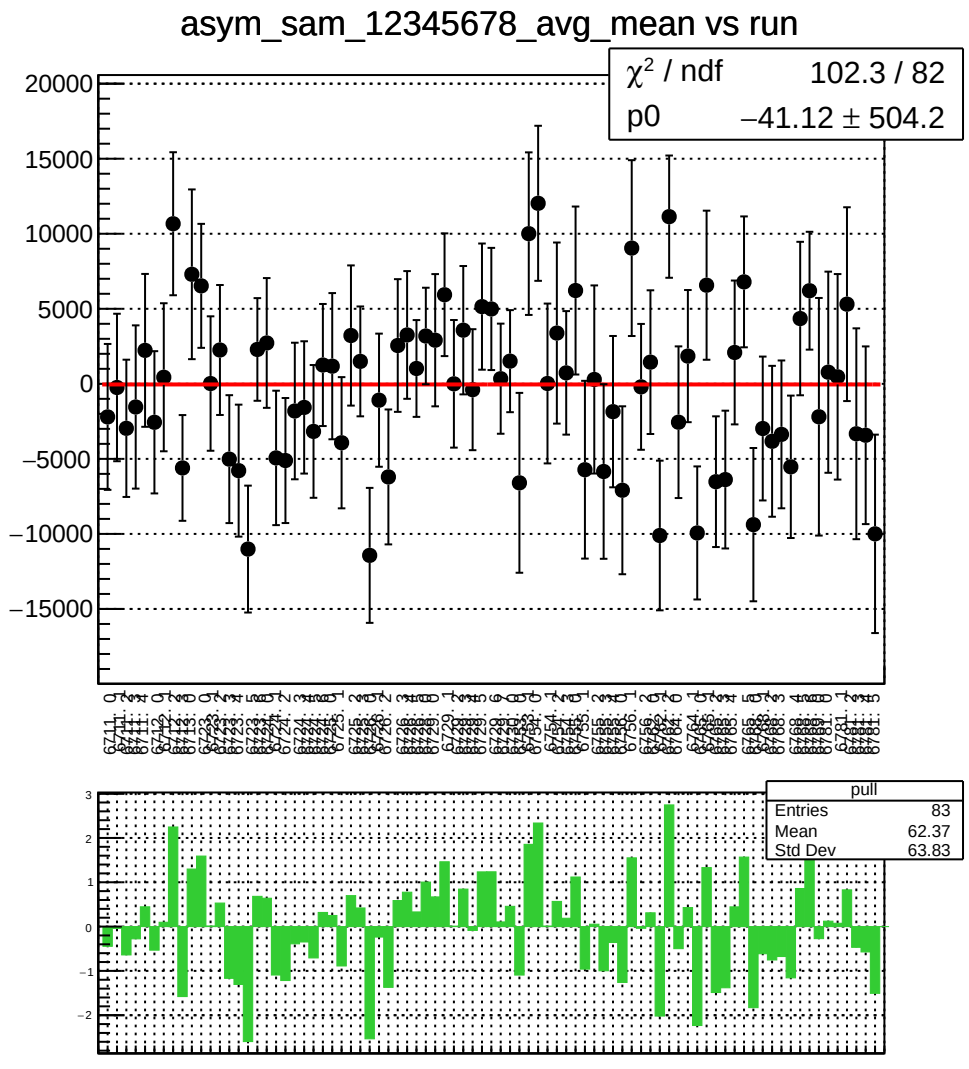

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 80.47 / 82
p0 17.08 ± 96.69
4000
2000
0
−2000
−4000
−6000
pull
Entries 83
Mean 205.5
Std Dev 165.3
2
1
0
−1
−2
pull1D
Entries 83
Mean −0.02555
Std Dev 0.9843
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

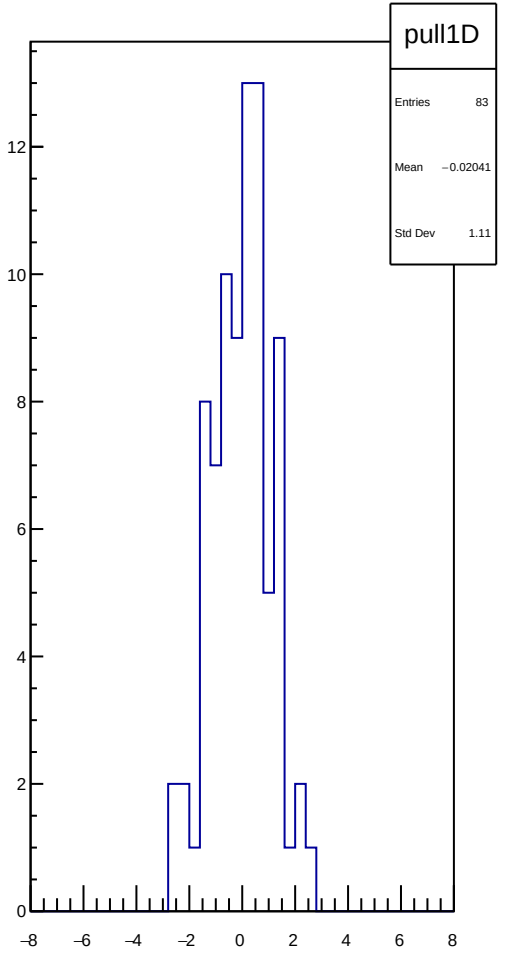

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 7.914e+04 / 82
p0 85.25 ± 0.06837
200
180
160
140
120
100
80
60

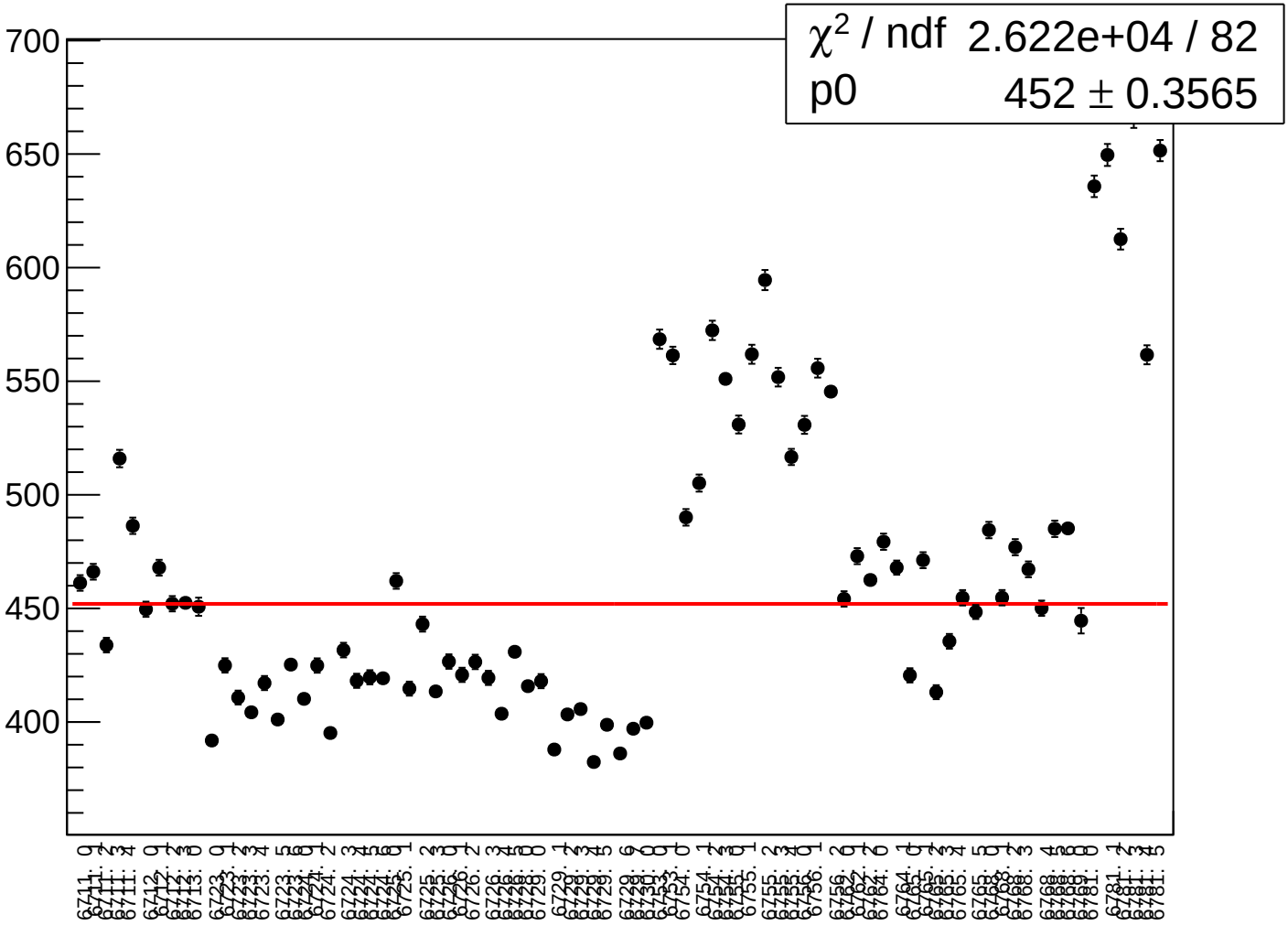

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 95.19 / 82
p0 51.85 ± 536.8
pull
Entries 83
Mean 29.83
Std Dev 74.64

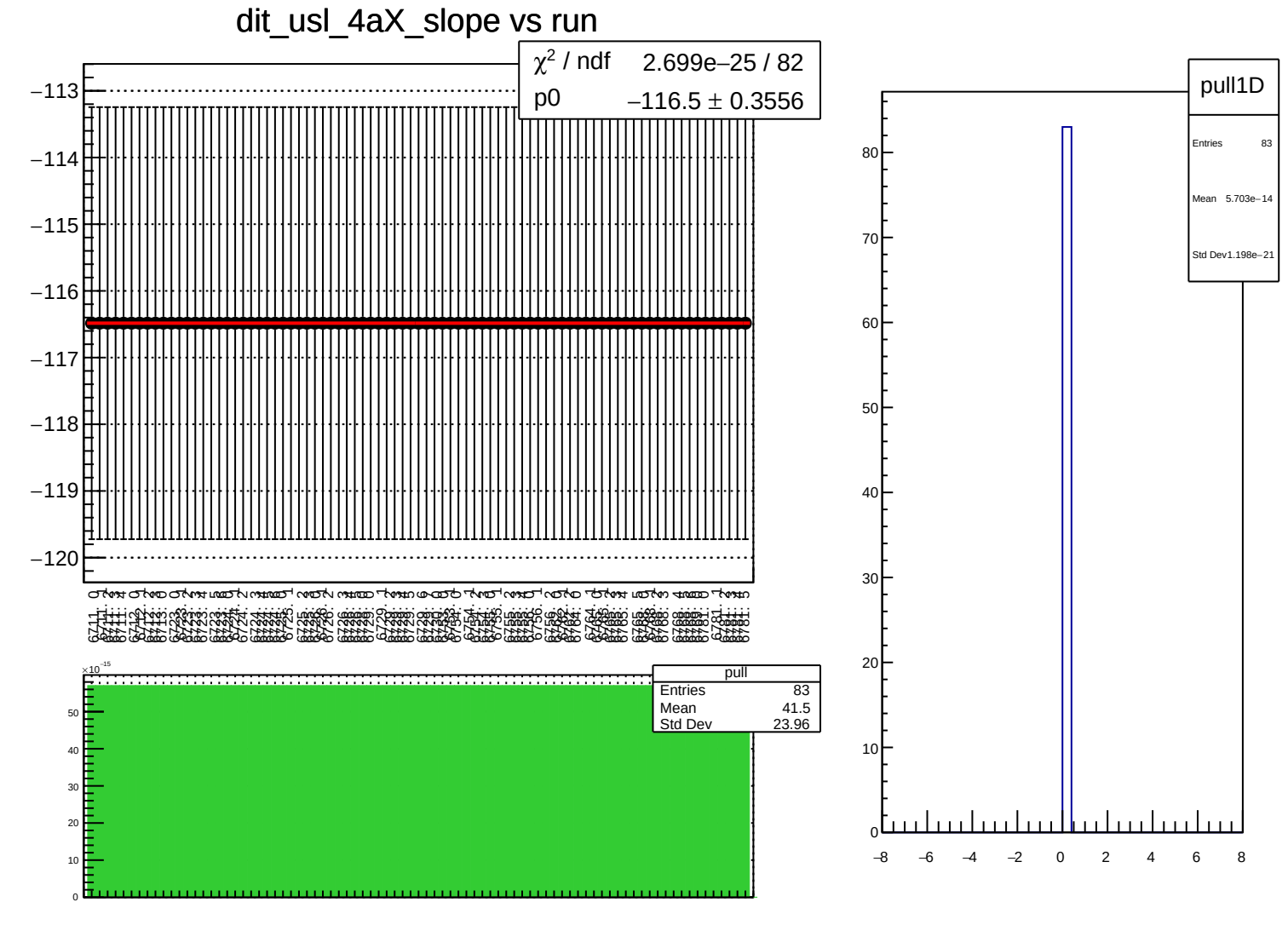

pull1D
Entries 83
Mean 0.01639
Std Dev 1.071

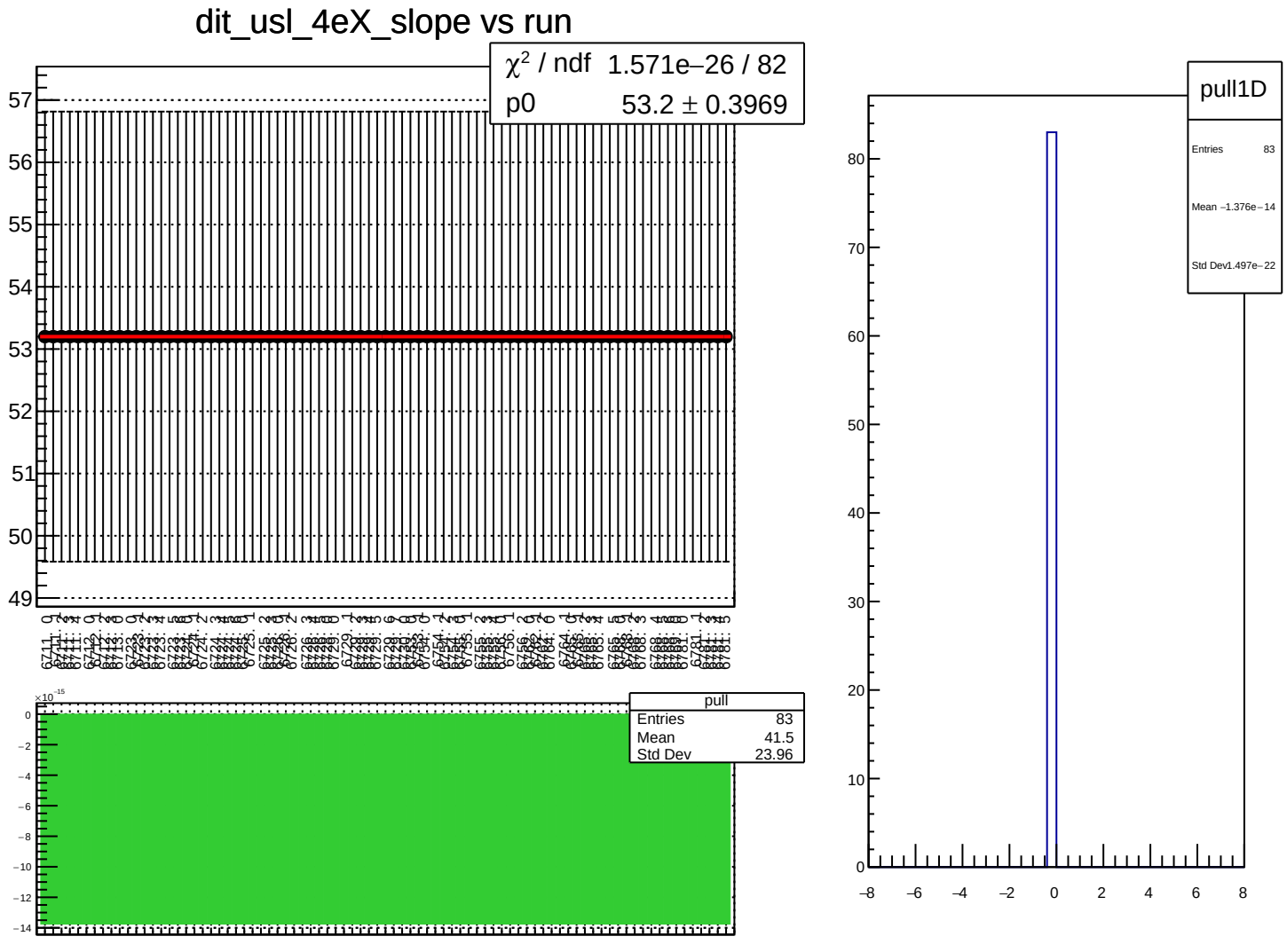

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 8141 / 82
p0 484 ± 0.3796
600
580
560
540
520
500
480
460
440
420

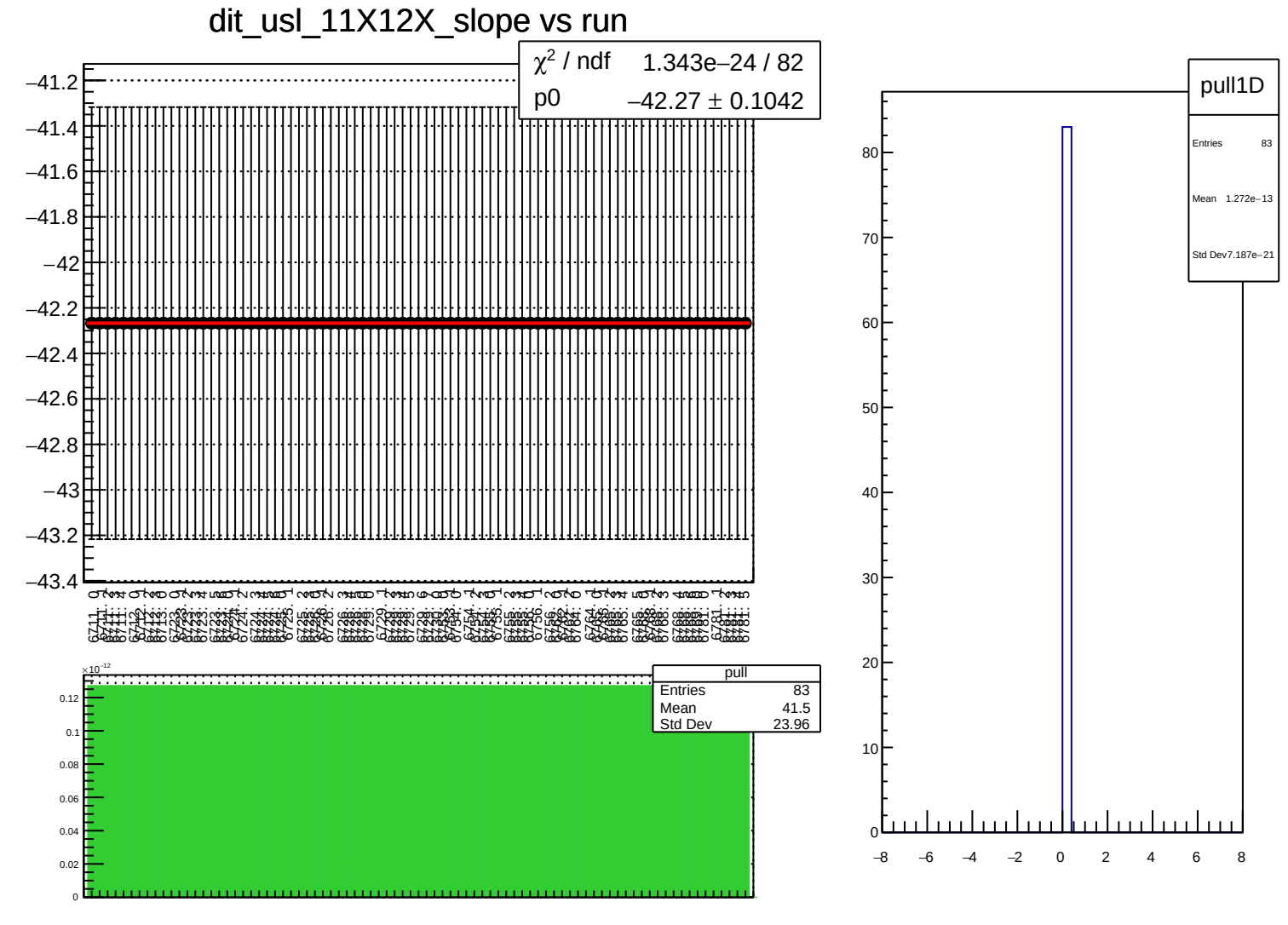

asym_sam_12345678_avg_mean vs run
χ² / ndf 102.3 / 82
p0 −41.12 ± 504.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 83
Mean 62.37
Std Dev 63.83
3
2
1
0
−1
−2

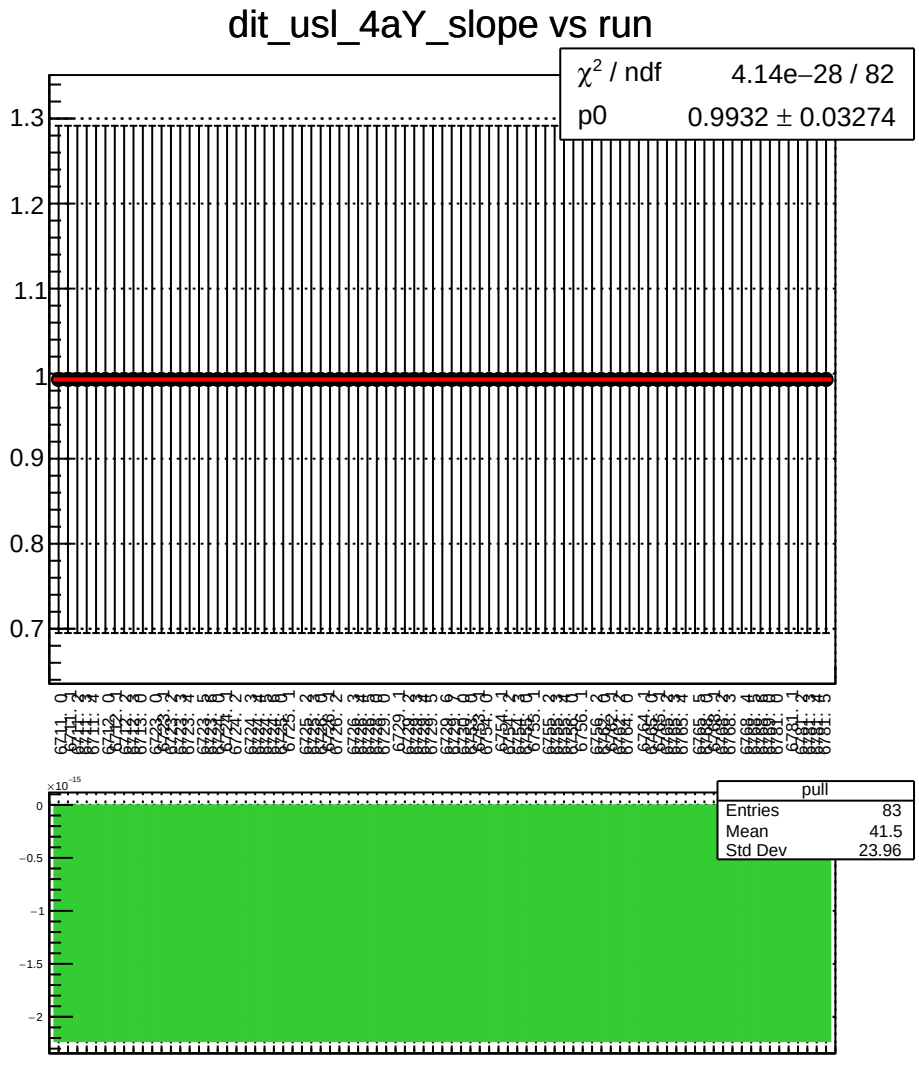

pull1D
Entries 83
Mean −0.02041
Std Dev 1.11
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

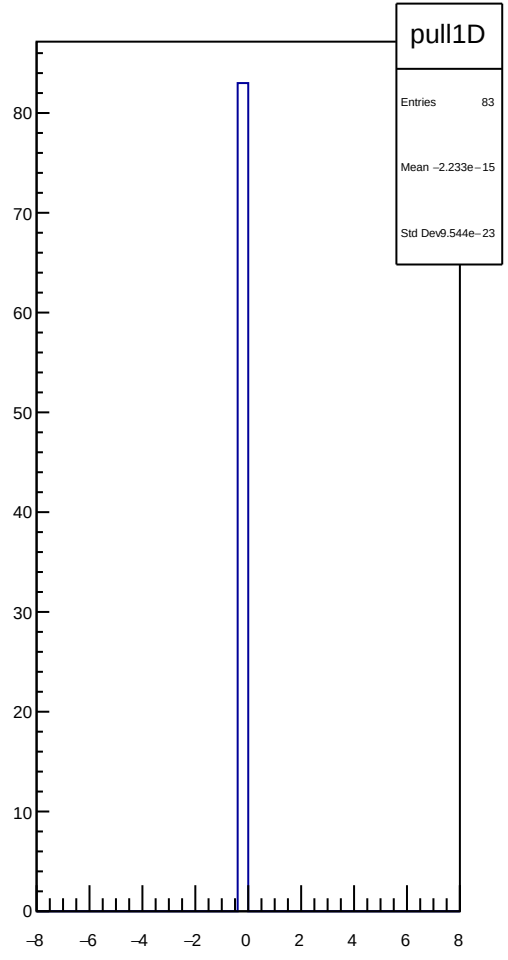

asym_sam_12345678_avg_rms vs run
χ² / ndf 2.622e+04 / 82
p0 452 ± 0.3565
700
650
600
550
500
450
400

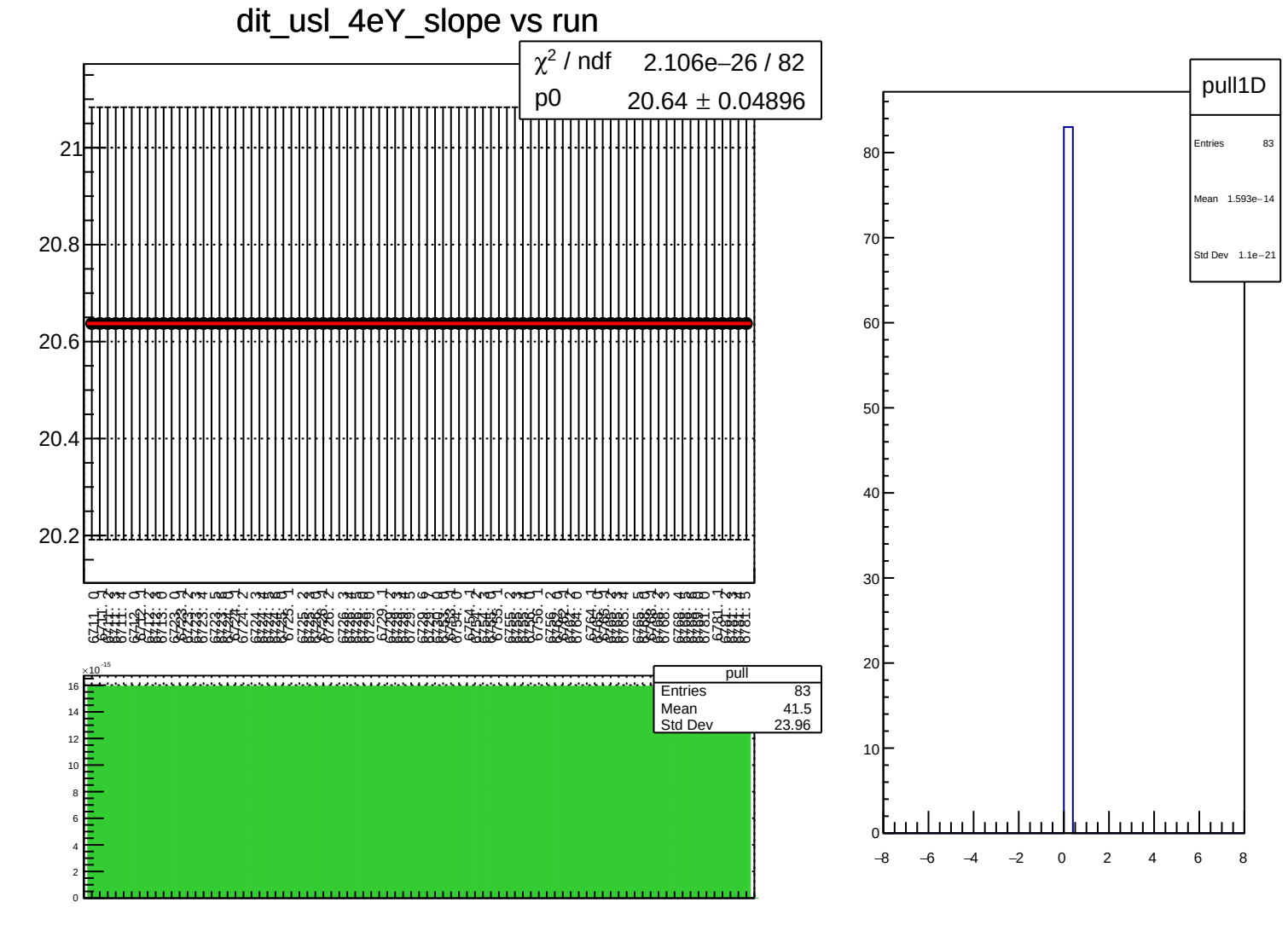

dit_usl_4aX_slope vs run
χ² / ndf 2.699e−25 / 82
p0 −116.5 ± 0.3556
−113
−114
−115
−116
−117
−118
−119
−120
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
50
40
30
20
10
0
pull1D
Entries 83
Mean 5.703e−14
Std Dev1.198e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

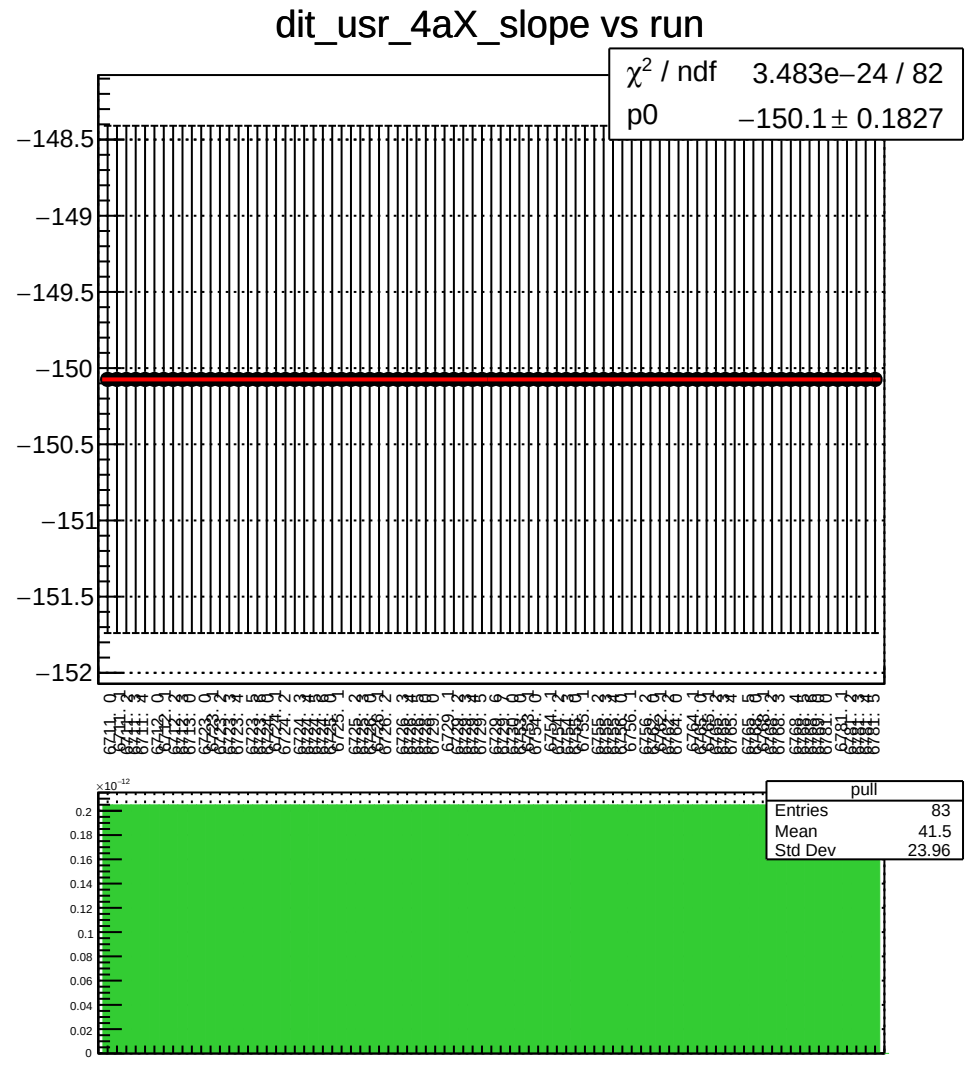

dit_usl_4eX_slope vs run
χ² / ndf 1.571e−26 / 82
p0 53.2 ± 0.3969
pull
Entries 83
Mean 41.5
Std Dev 23.96
pull1D
Entries 83
Mean −1.376e−14
Std Dev1.497e−22

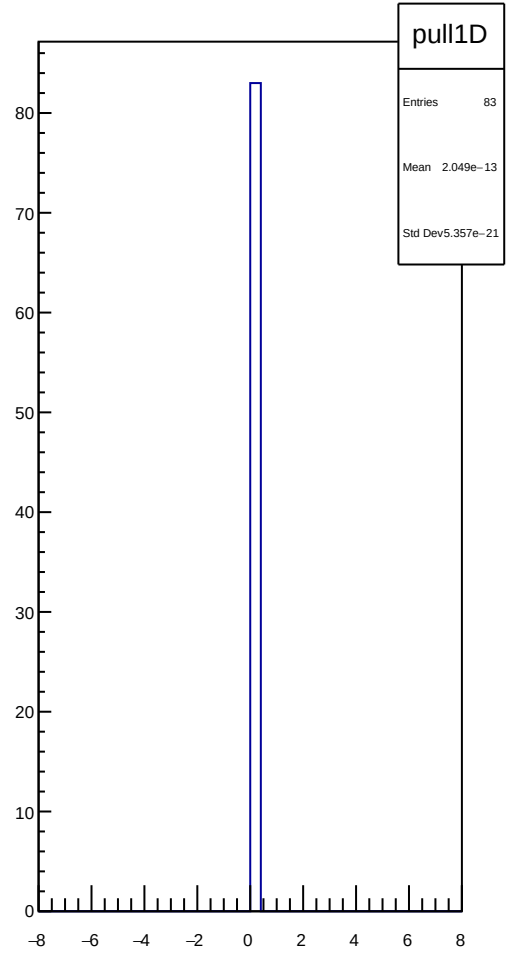

dit_usl_11X12X_slope vs run
χ² / ndf 1.343e−24 / 82
p0 −42.27 ± 0.1042
−41.2
−41.4
−41.6
−41.8
−42
−42.2
−42.4
−42.6
−42.8
−43
−43.2
−43.4
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹²
0.12
0.1
0.08
0.06
0.04
0.02
0
pull1D
Entries 83
Mean 1.272e−13
Std Dev7.187e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

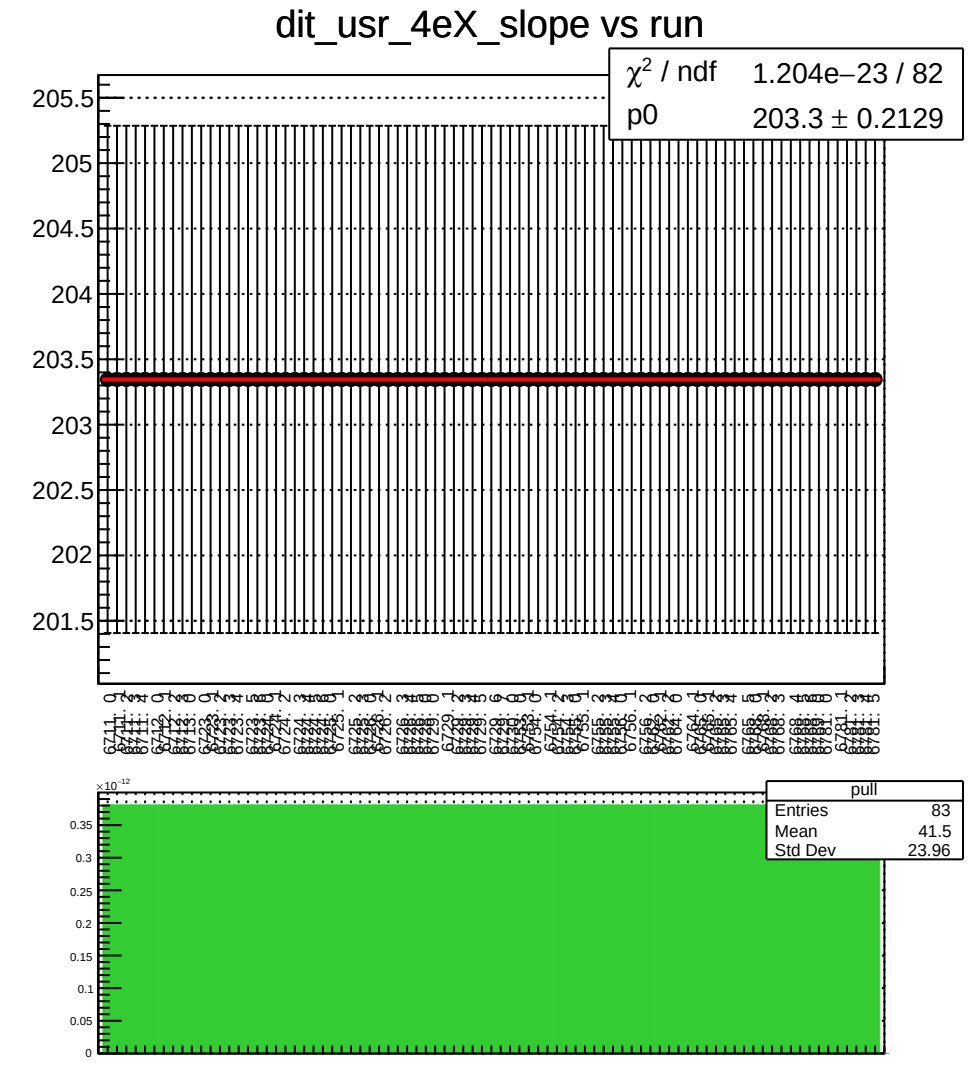

dit_usl_4aY_slope vs run
χ² / ndf 4.14e−28 / 82
p0 0.9932 ± 0.03274
pull
Entries 83
Mean 41.5
Std Dev 23.96

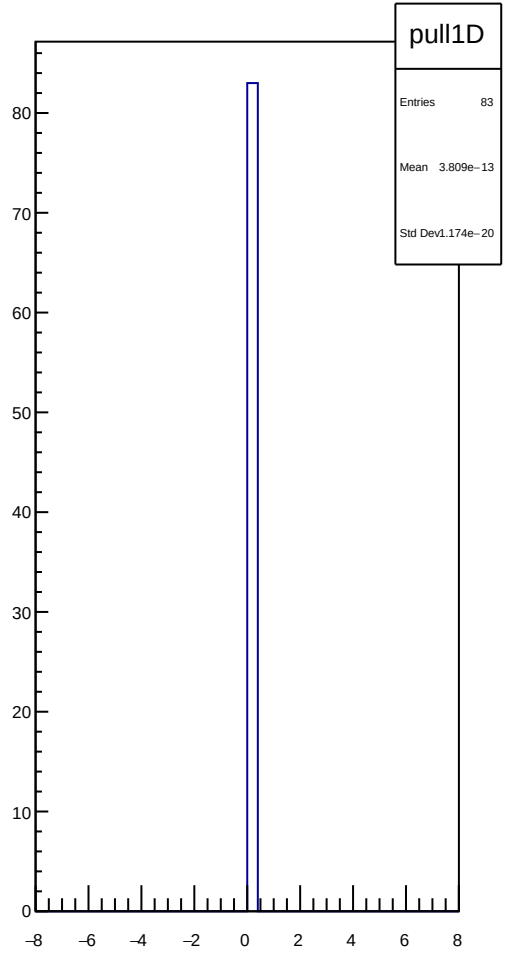

pull1D
Entries 83
Mean −2.233e−15
Std Dev9.544e−23

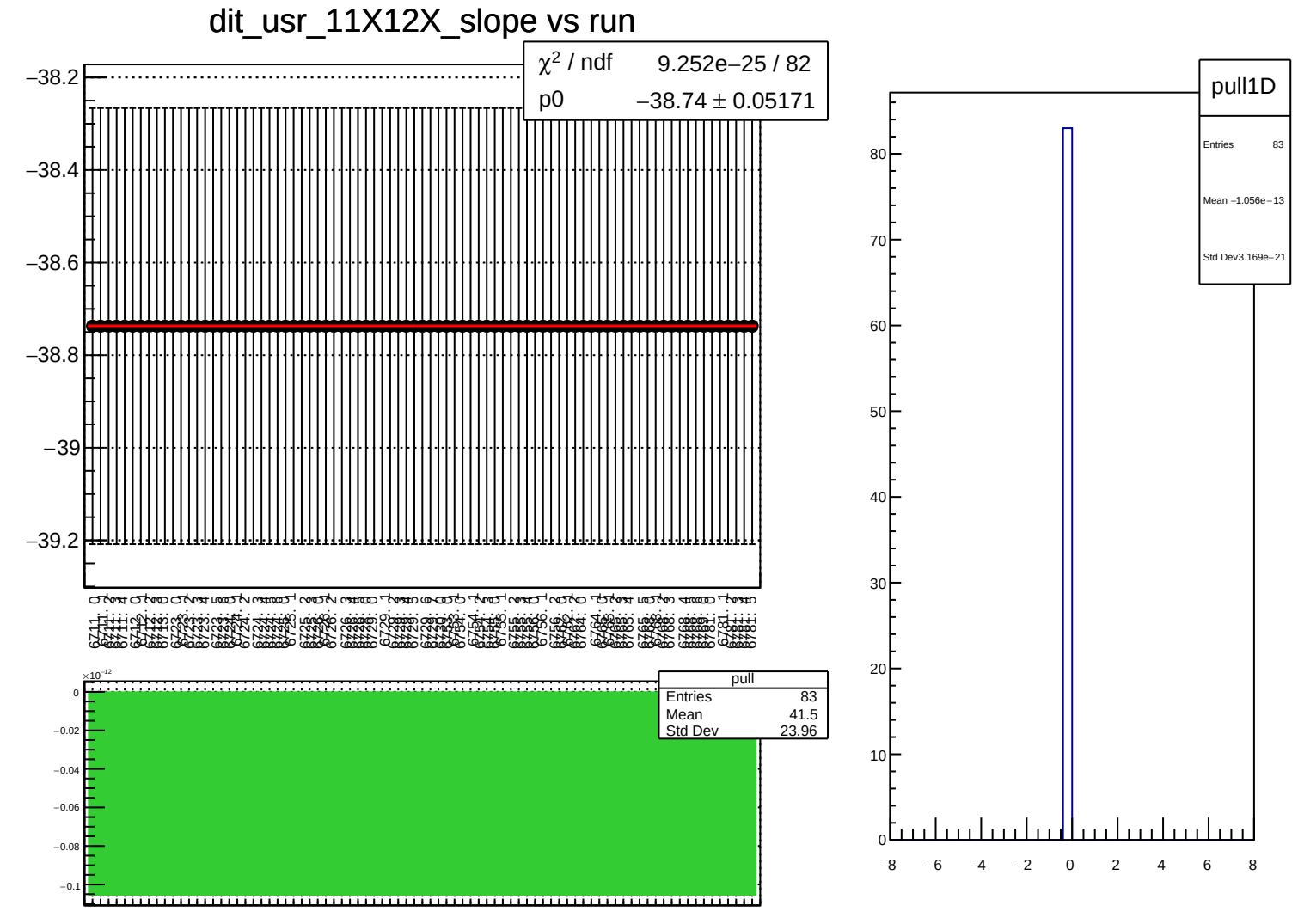

dit_usl_4eY_slope vs run
χ² / ndf 2.106e−26 / 82
p0 20.64 ± 0.04896
21
20.8
20.6
20.4
20.2
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
16
14
12
10
8
6
4
2
0
pull1D
Entries 83
Mean 1.593e−14
Std Dev 1.1e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

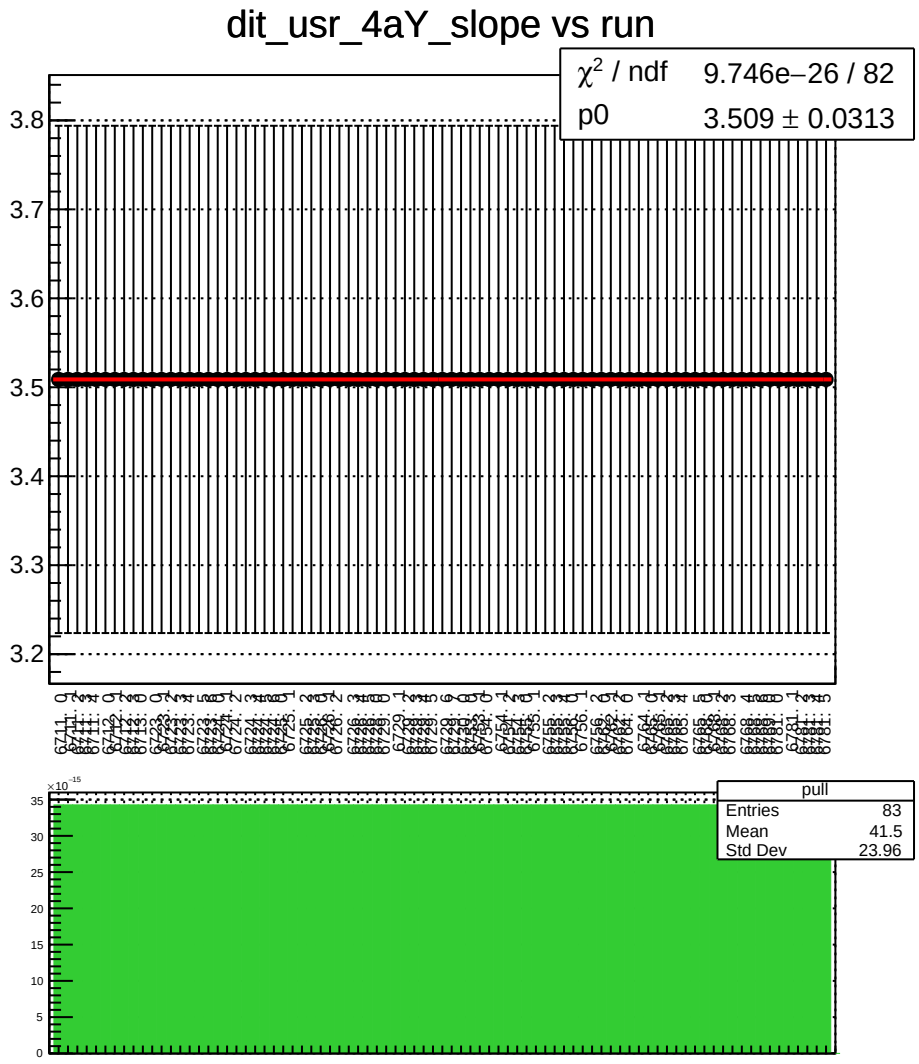

dit_usr_4aX_slope vs run
χ² / ndf 3.483e−24 / 82
p0 −150.1 ± 0.1827
−148.5
−149
−149.5
−150
−150.5
−151
−151.5
−152
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹²
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

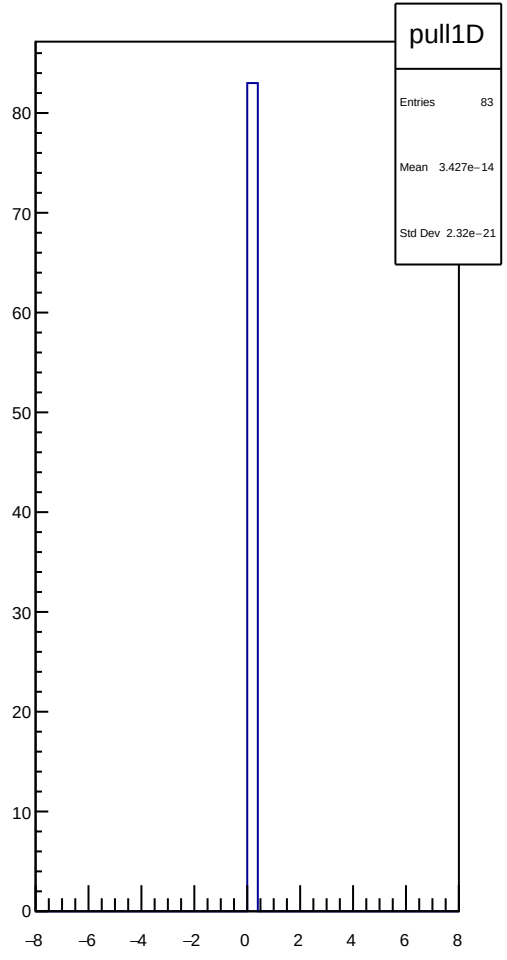

pull1D
Entries 83
Mean 2.049e−13
Std Dev 5.357e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

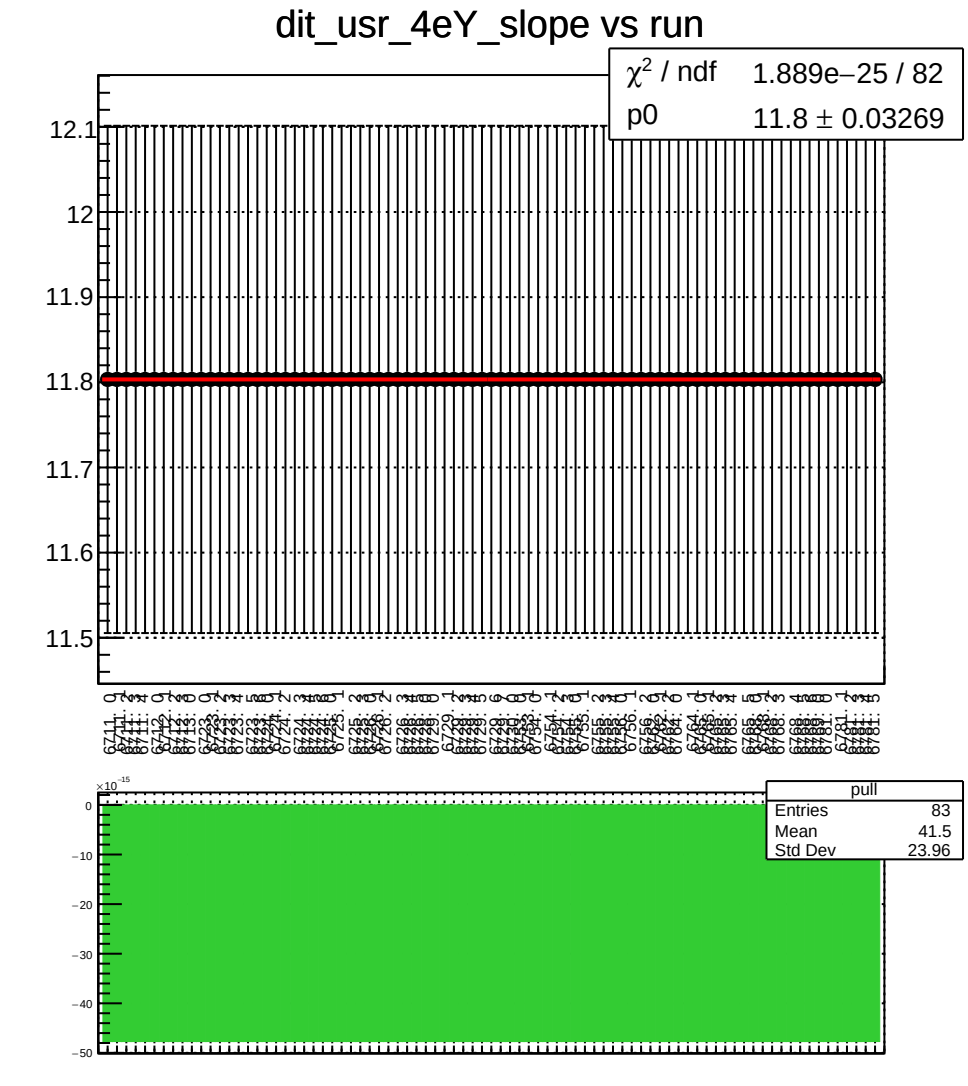

dit_usr_4eX_slope vs run
χ² / ndf 1.204e−23 / 82
p0 203.3 ± 0.2129
205.5
205
204.5
204
203.5
203
202.5
202
201.5
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹²
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

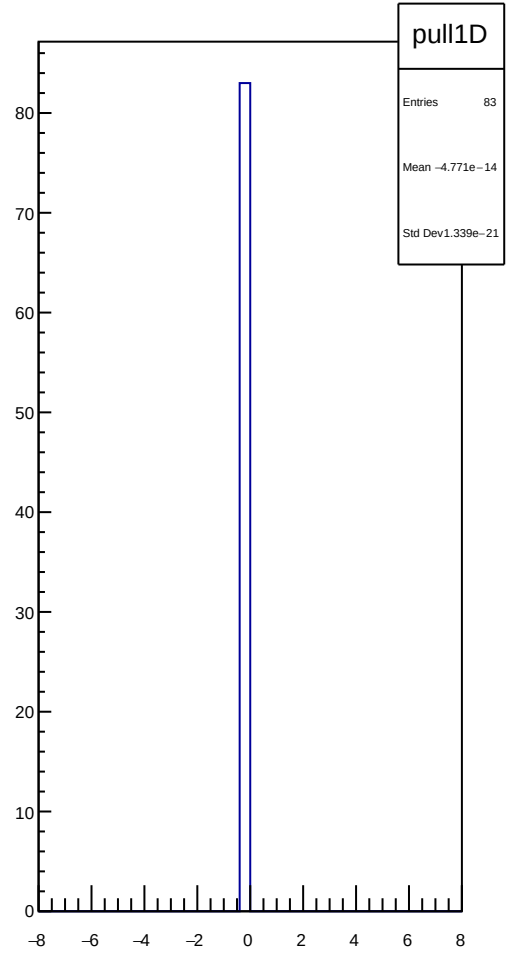

pull1D
Entries 83
Mean 3.809e−13
Std Dev1.174e−20
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

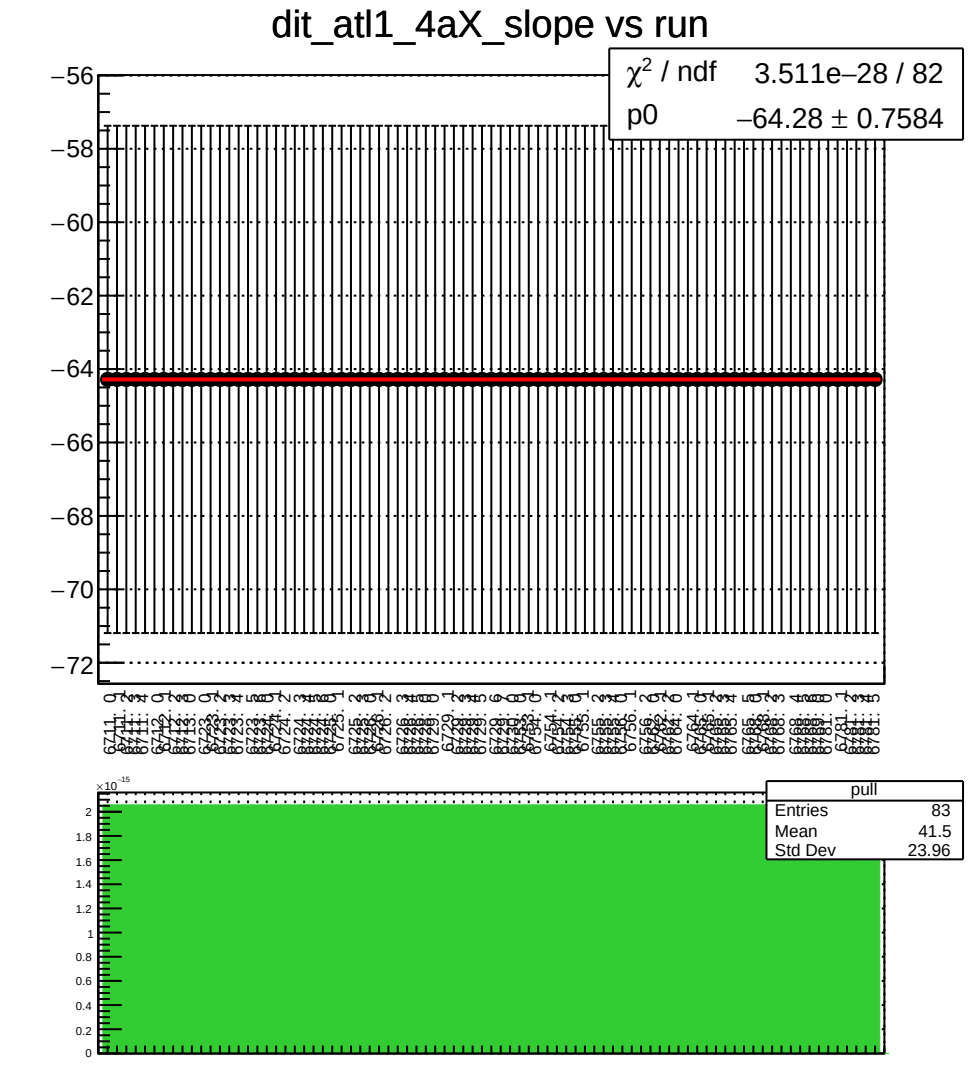

dit_usr_11X12X_slope vs run
χ² / ndf 9.252e−25 / 82
p0 −38.74 ± 0.05171
−38.2
−38.4
−38.6
−38.8
−39
−39.2
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull1D
Entries 83
Mean −1.056e−13
Std Dev3.169e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

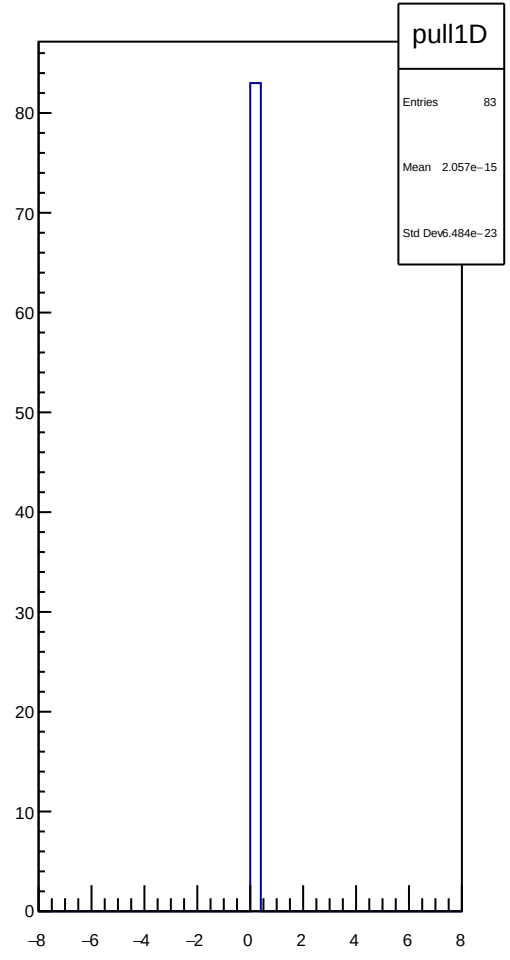

dit_usr_4aY_slope vs run
χ² / ndf 9.746e−26 / 82
p0 3.509 ± 0.0313
3.8
3.7
3.6
3.5
3.4
3.3
3.2
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
35
30
25
20
15
10
5
0

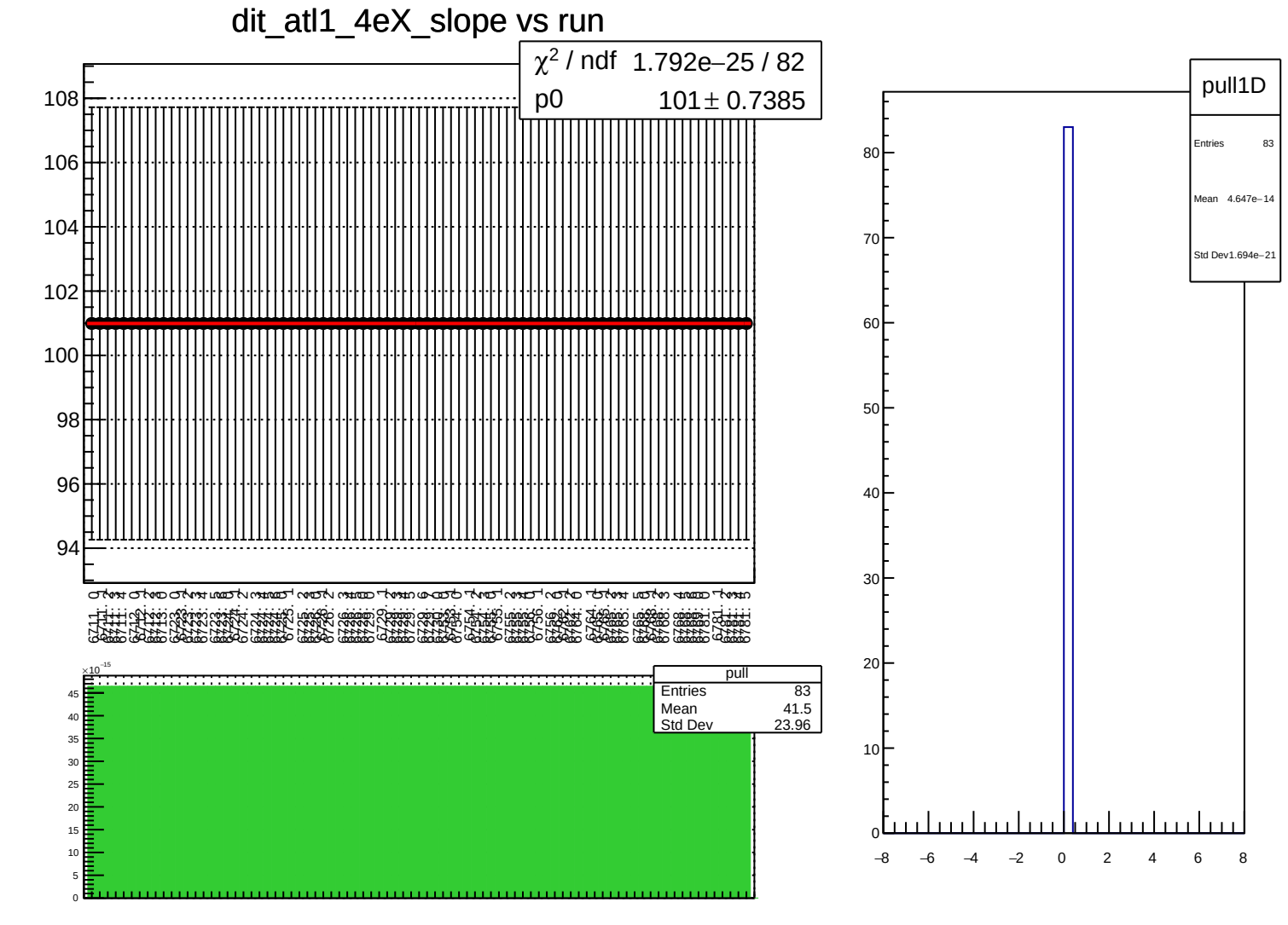

pull1D
Entries 83
Mean 3.427e−14
Std Dev 2.32e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

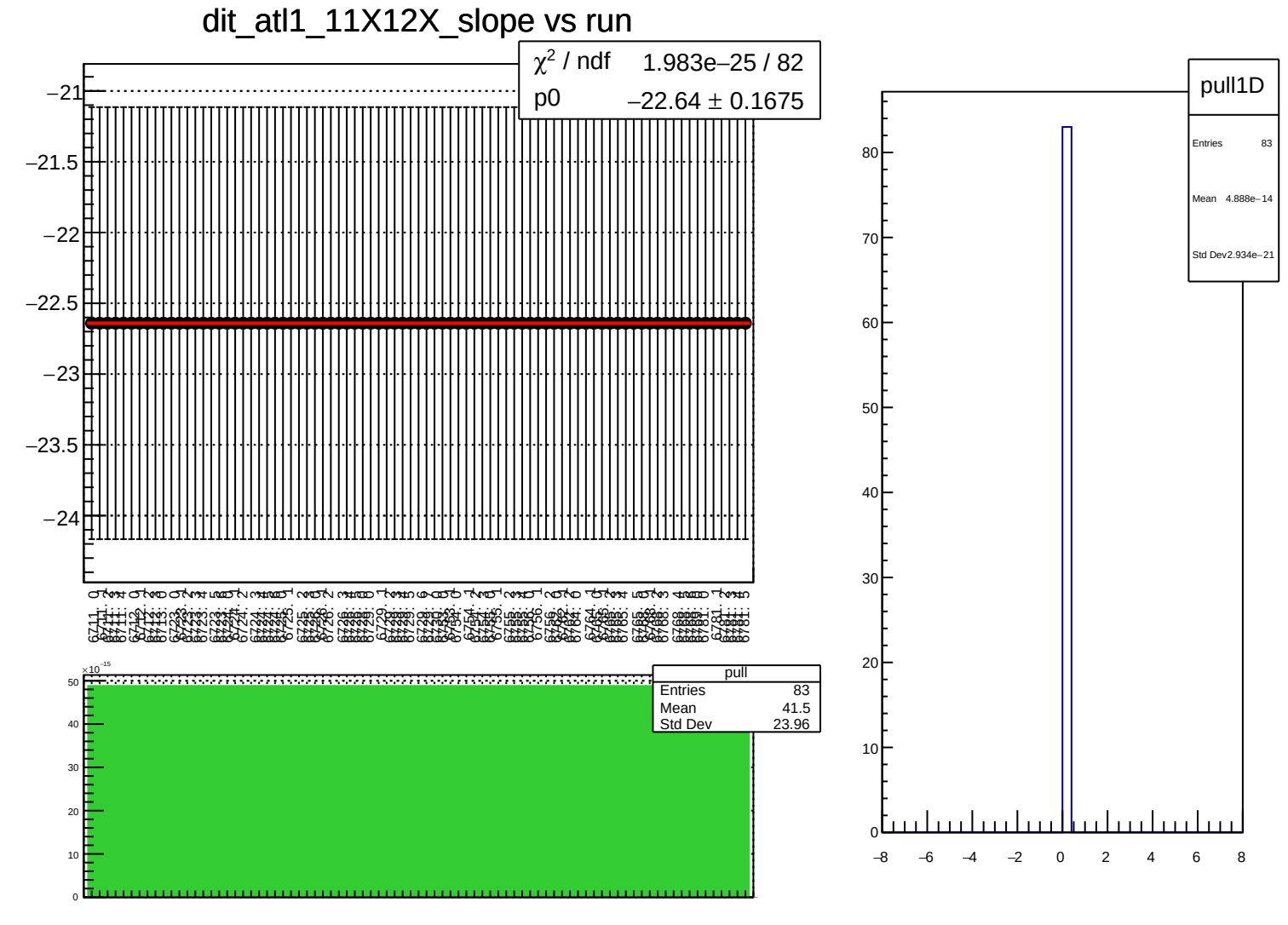

dit_usr_4eY_slope vs run
χ² / ndf 1.889e−25 / 82
p0 11.8 ± 0.03269
12.1
12
11.9
11.8
11.7
11.6
11.5
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
0
−10
−20
−30
−40
−50

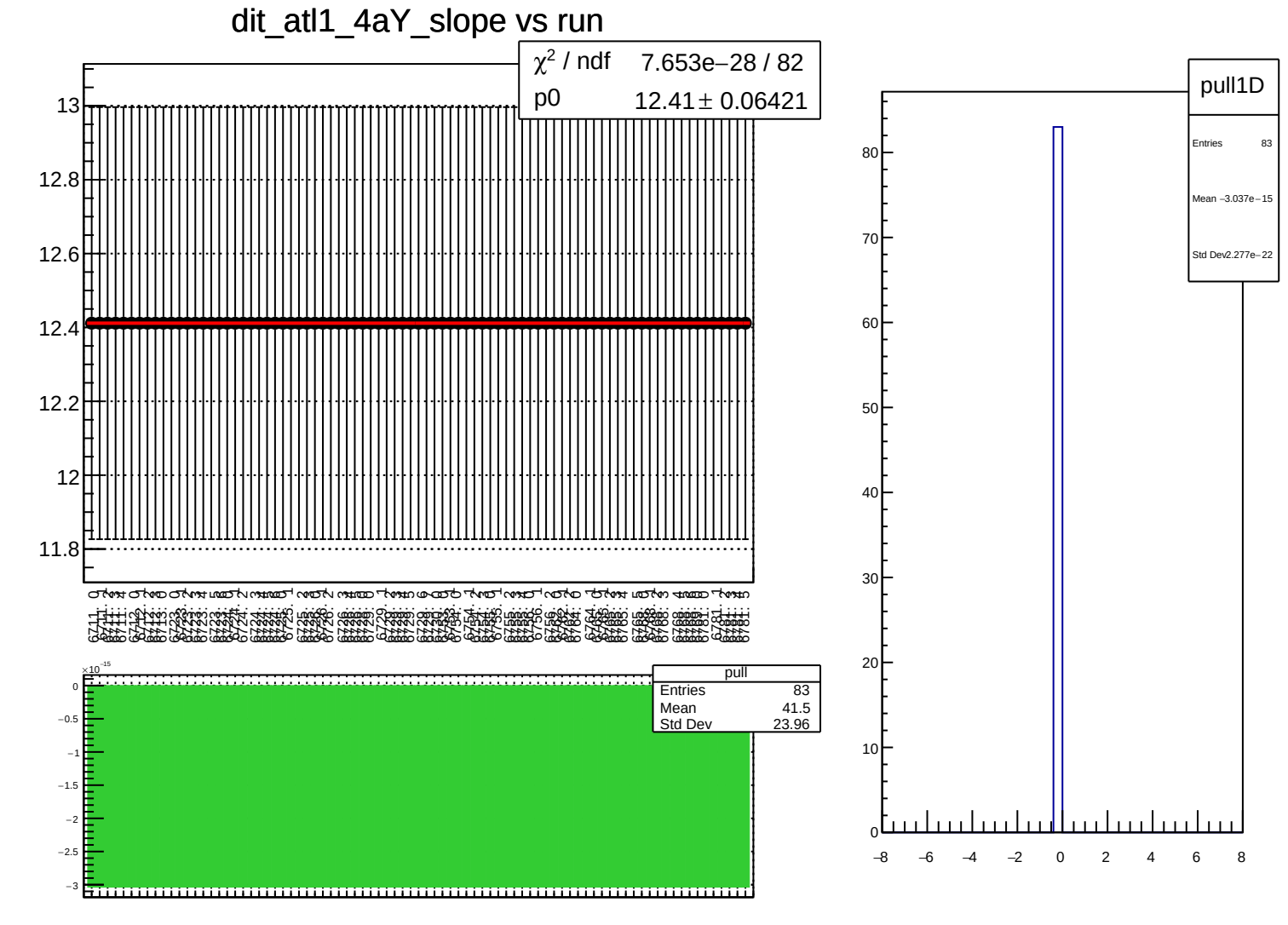

pull1D
Entries 83
Mean −4.771e−14
Std Dev1.339e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

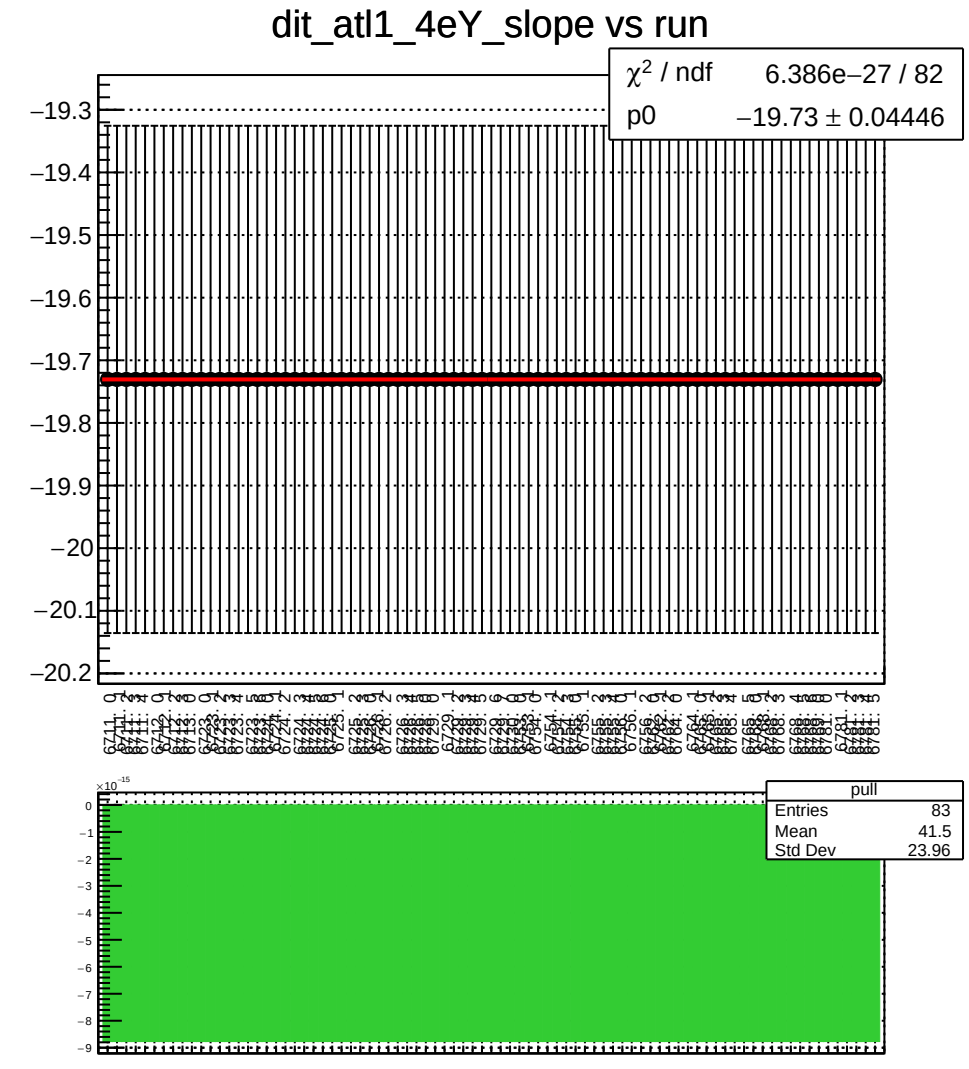

dit_atl1_4aX_slope vs run
χ² / ndf 3.511e−28 / 82
p0 −64.28 ± 0.7584
pull
Entries 83
Mean 41.5
Std Dev 23.96

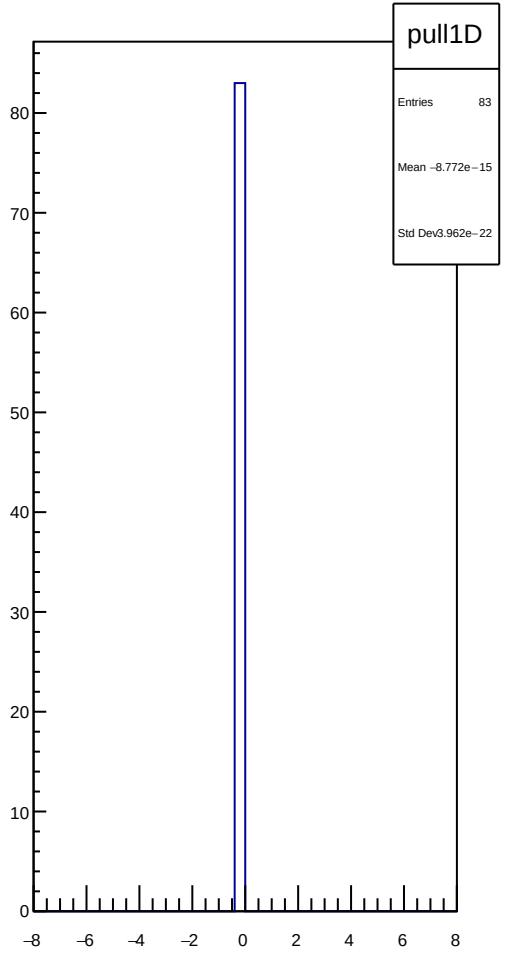

pull1D
Entries 83
Mean 2.057e−15
Std Dev 6.484e−23

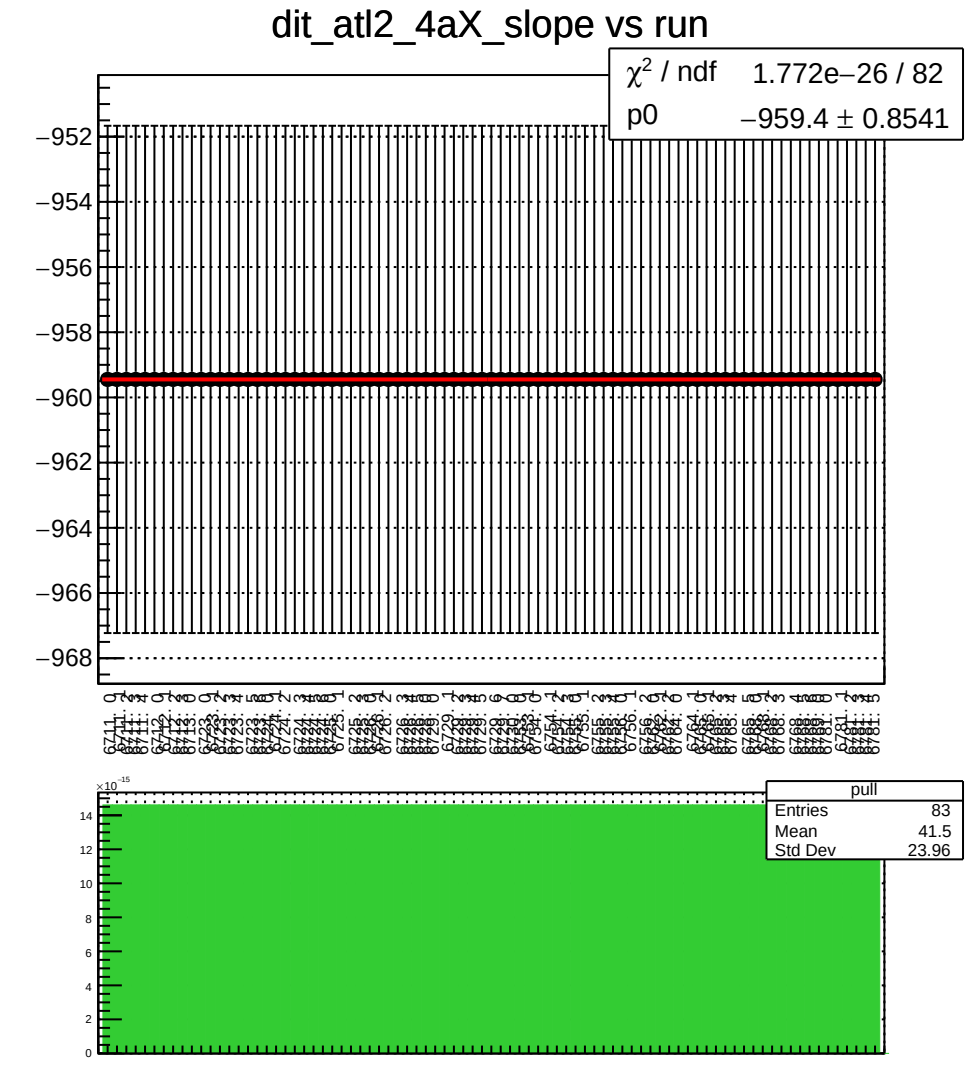

dit_atl1_4eX_slope vs run
χ² / ndf 1.792e−25 / 82
p0 101 ± 0.7385
108
106
104
102
100
98
96
94
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
45
40
35
30
25
20
15
10
5
0
pull1D
Entries 83
Mean 4.647e−14
Std Dev1.694e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

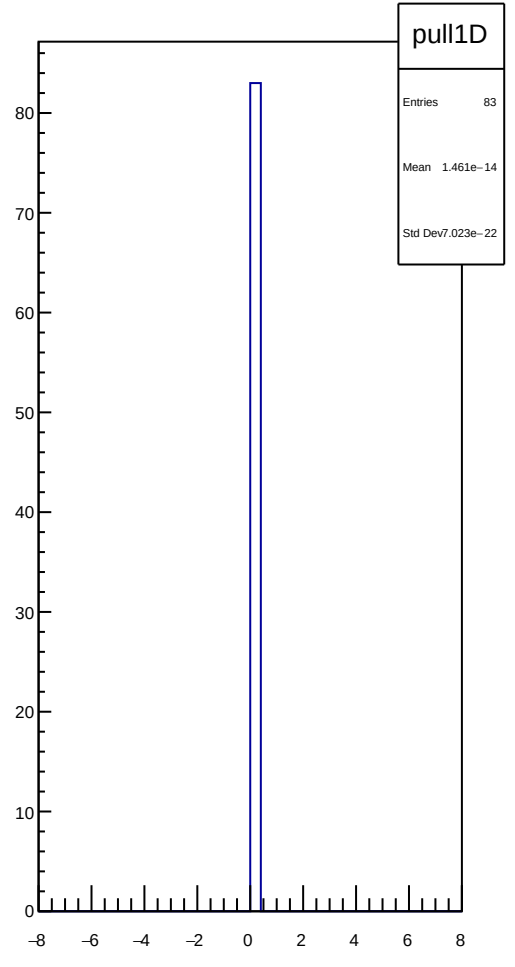

dit_atl1_11X12X_slope vs run
χ² / ndf 1.983e−25 / 82
p0 −22.64 ± 0.1675
−21
−21.5
−22
−22.5
−23
−23.5
−24
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
50
40
30
20
10
0
pull1D
Entries 83
Mean 4.888e−14
Std Dev2.934e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

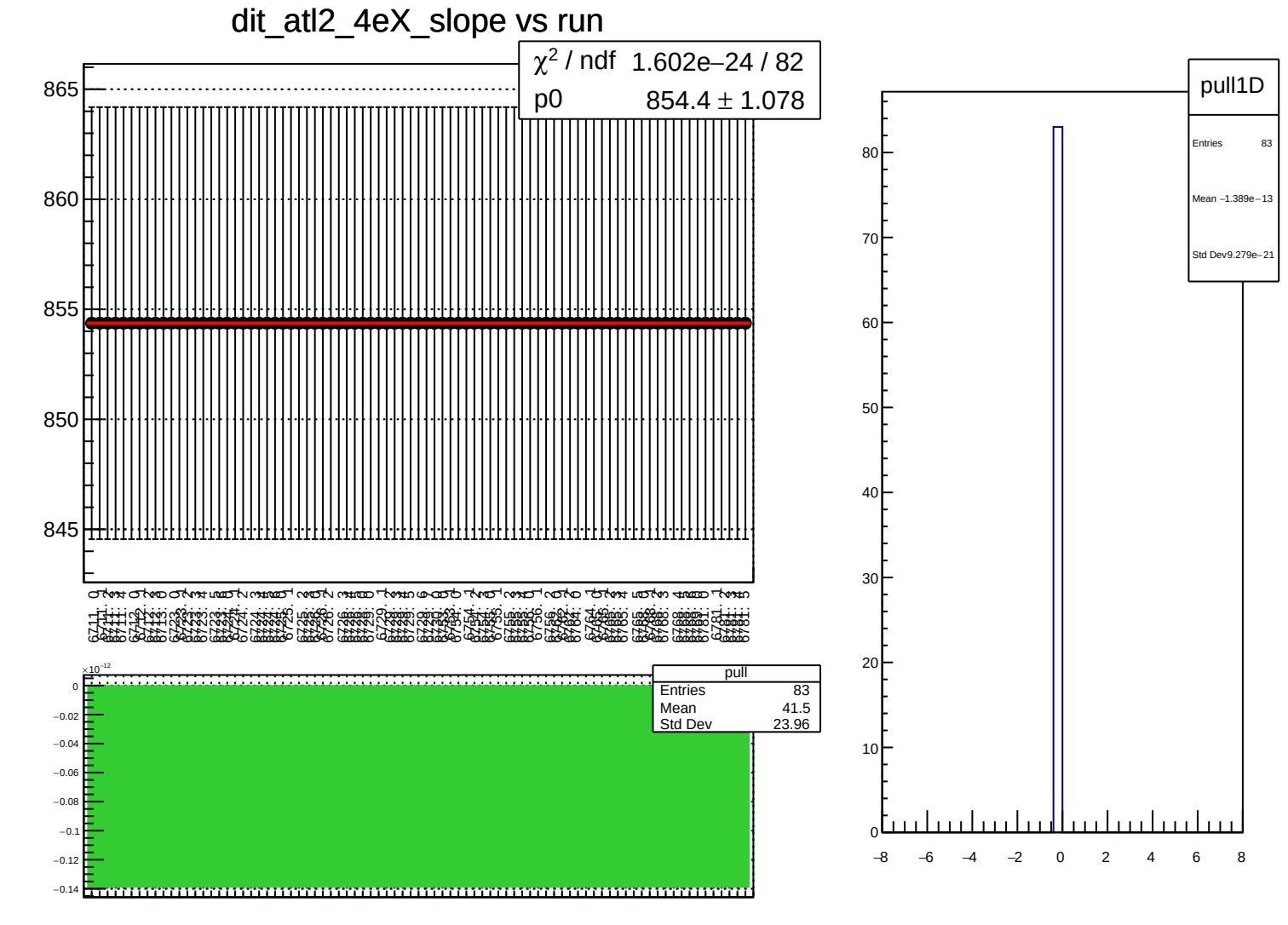

dit_atl1_4aY_slope vs run
χ² / ndf 7.653e−28 / 82
p0 12.41 ± 0.06421
13
12.8
12.6
12.4
12.2
12
11.8
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 83
Mean −3.037e−15
Std Dev 2.277e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

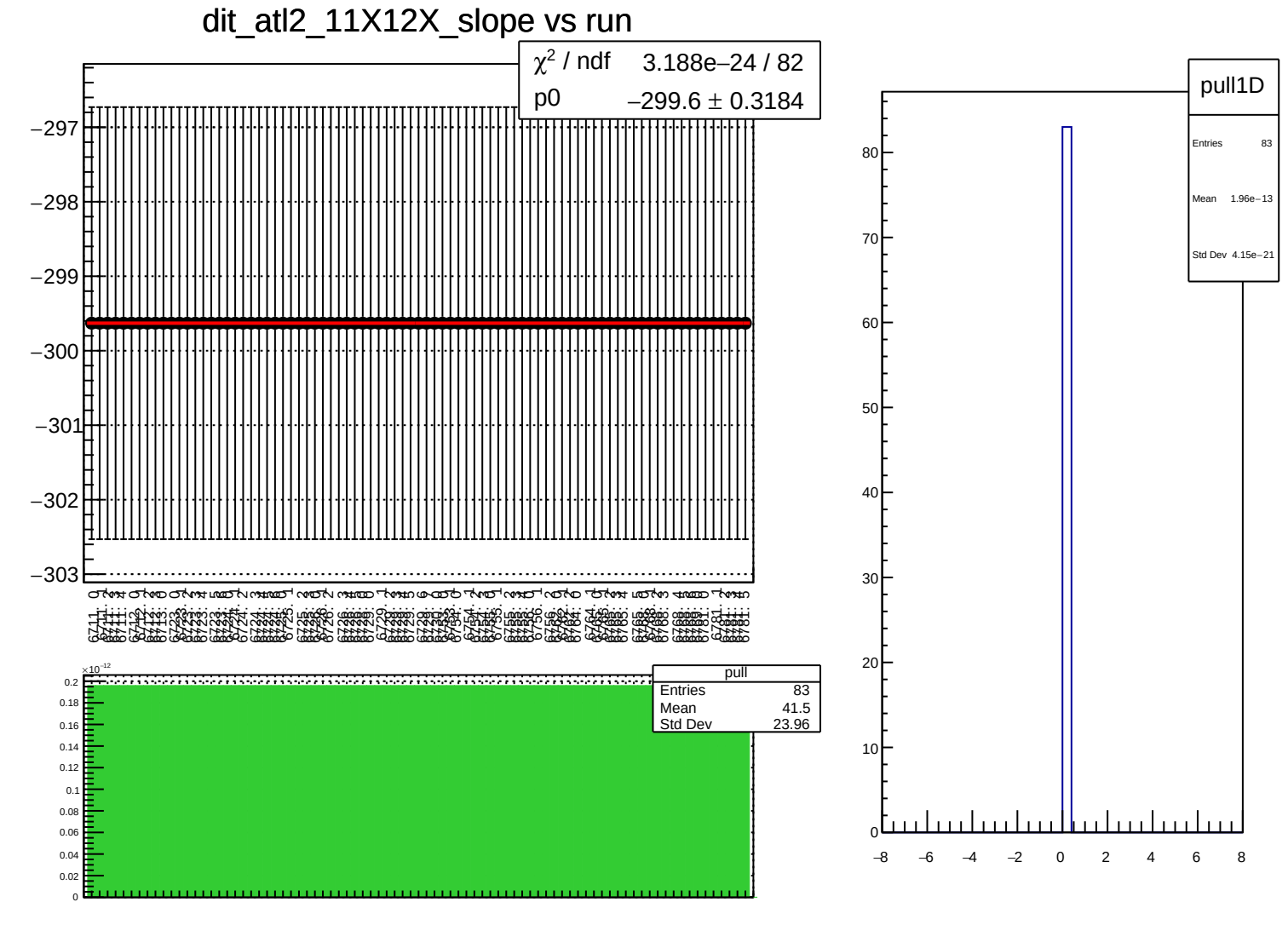

dit_atl1_4eY_slope vs run
χ² / ndf 6.386e−27 / 82
p0 −19.73 ± 0.04446
−19.3
−19.4
−19.5
−19.6
−19.7
−19.8
−19.9
−20
−20.1
−20.2
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵

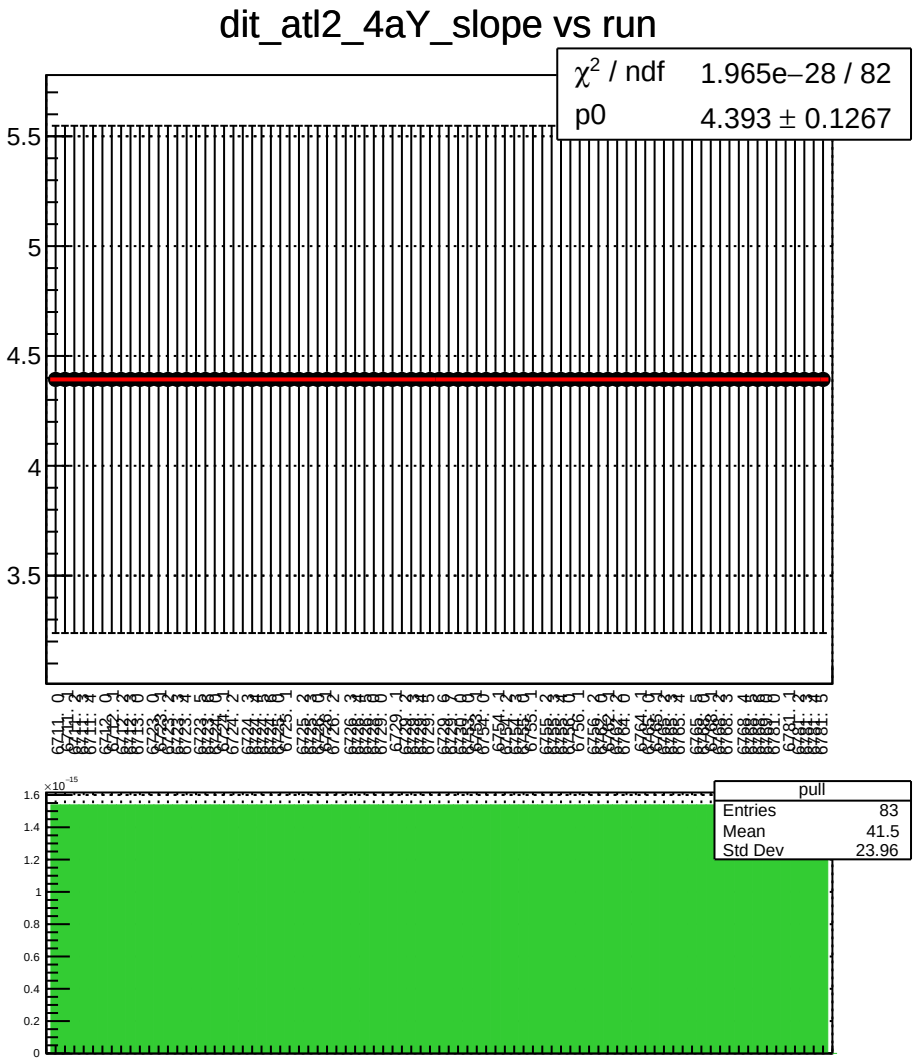

pull1D
Entries 83
Mean −8.772e−15
Std Dev 3.962e−22

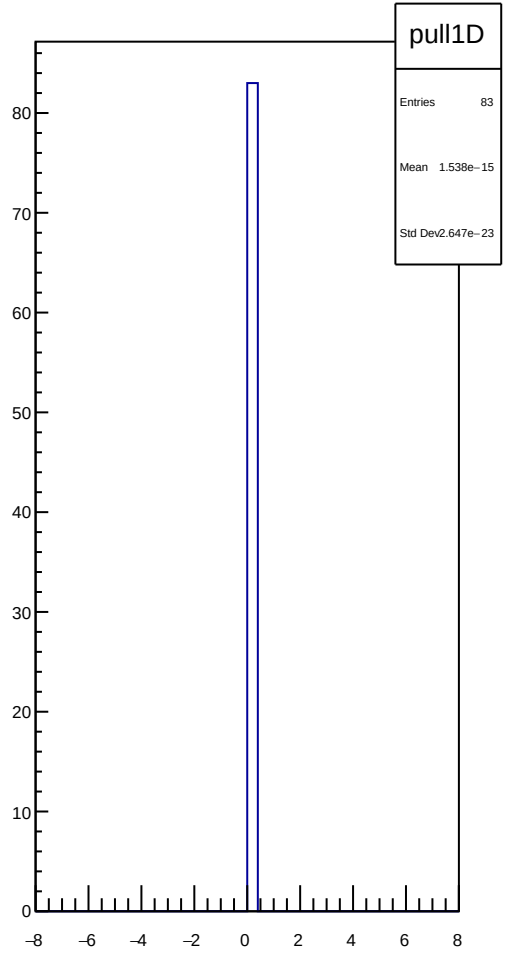

dit_atl2_4aX_slope vs run
χ² / ndf 1.772e−26 / 82
p0 −959.4 ± 0.8541
−952
−954
−956
−958
−960
−962
−964
−966
−968
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
14
12
10
8
6
4
2
0

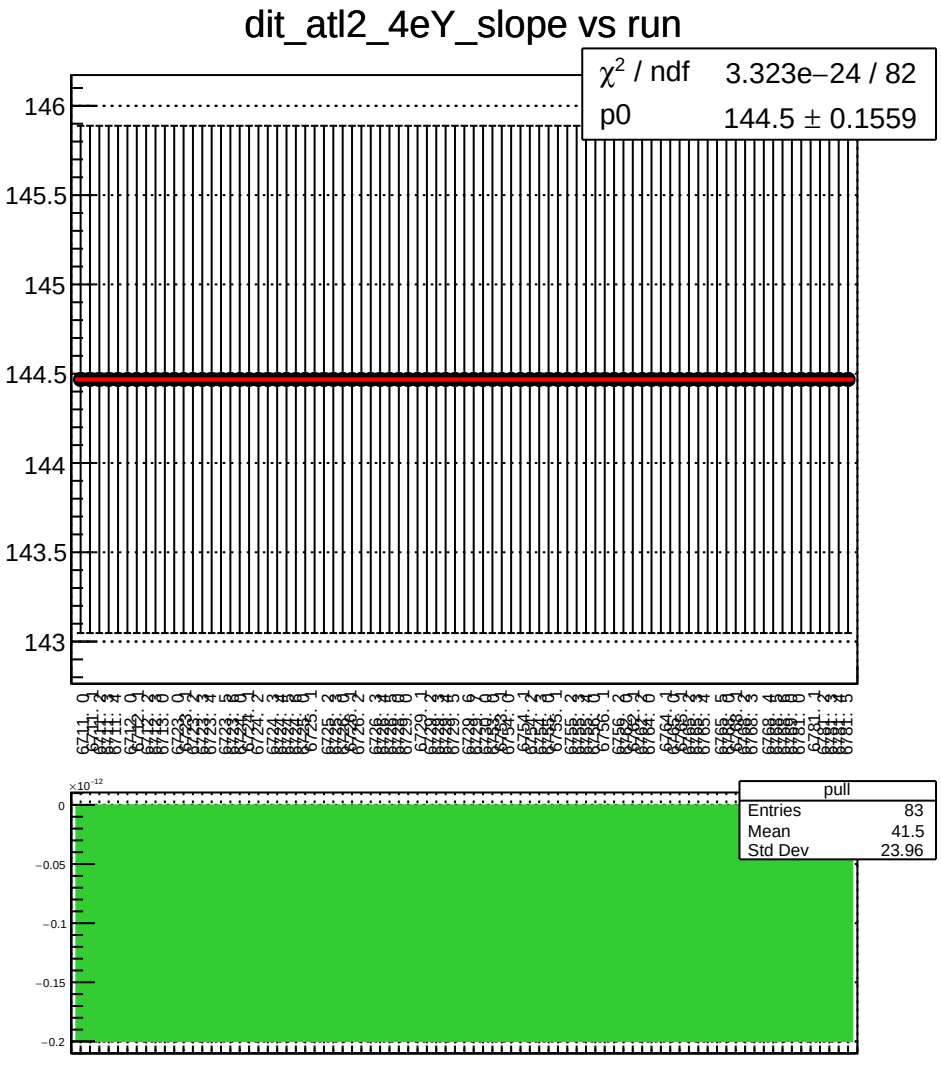

pull1D
Entries 83
Mean 1.461e−14
Std Dev7.023e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

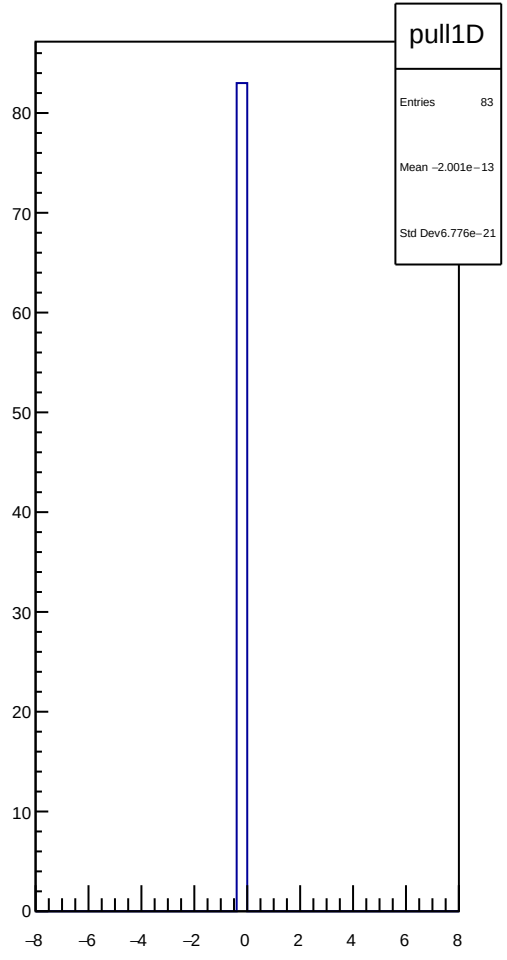

dit_atl2_4eX_slope vs run
χ² / ndf 1.602e−24 / 82
p0 854.4 ± 1.078
865
860
855
850
845
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull1D
Entries 83
Mean −1.389e−13
Std Dev9.279e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

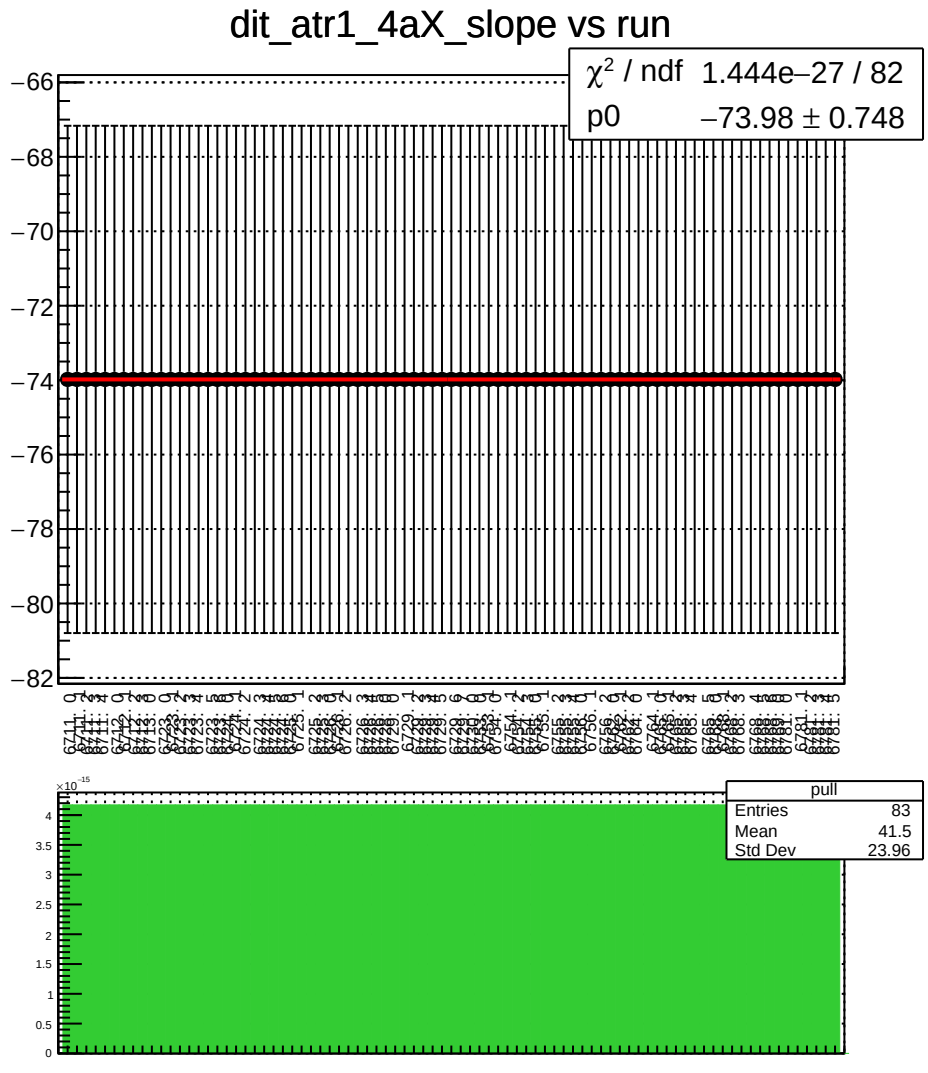

dit_atl2_11X12X_slope vs run
χ² / ndf 3.188e−24 / 82
p0 −299.6 ± 0.3184
−297
−298
−299
−300
−301
−302
−303
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹²
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull1D
Entries 83
Mean 1.96e−13
Std Dev 4.15e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

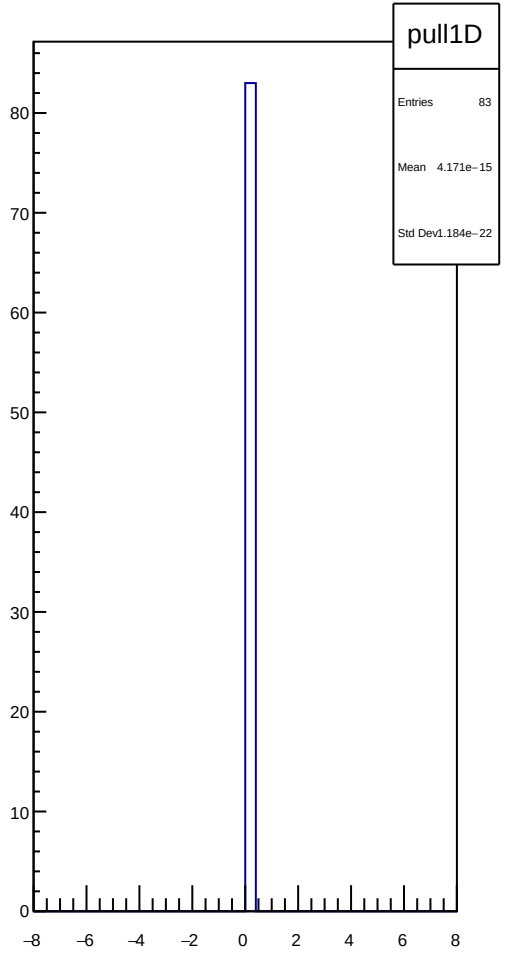

dit_atl2_4aY_slope vs run
χ² / ndf 1.965e−28 / 82
p0 4.393 ± 0.1267
pull
Entries 83
Mean 41.5
Std Dev 23.96

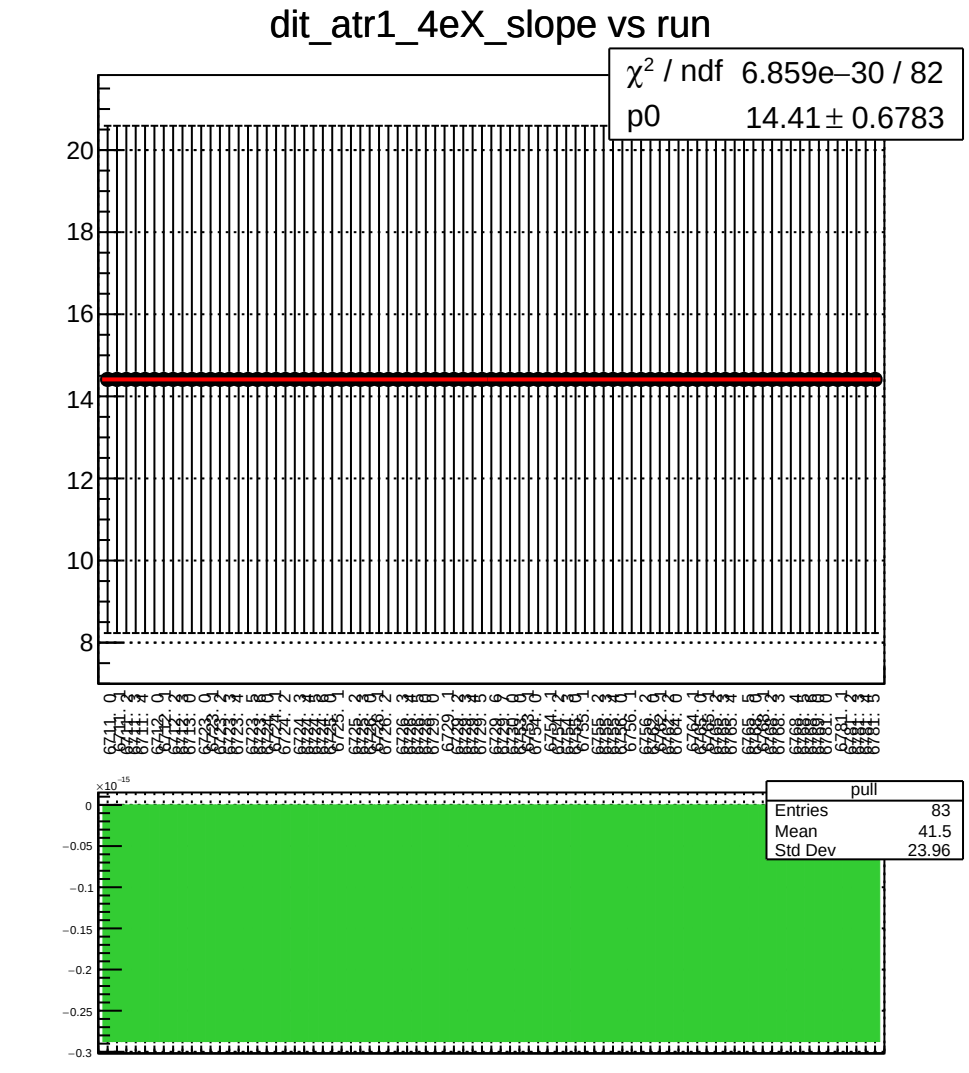

pull1D
Entries 83
Mean 1.538e−15
Std Dev2.647e−23

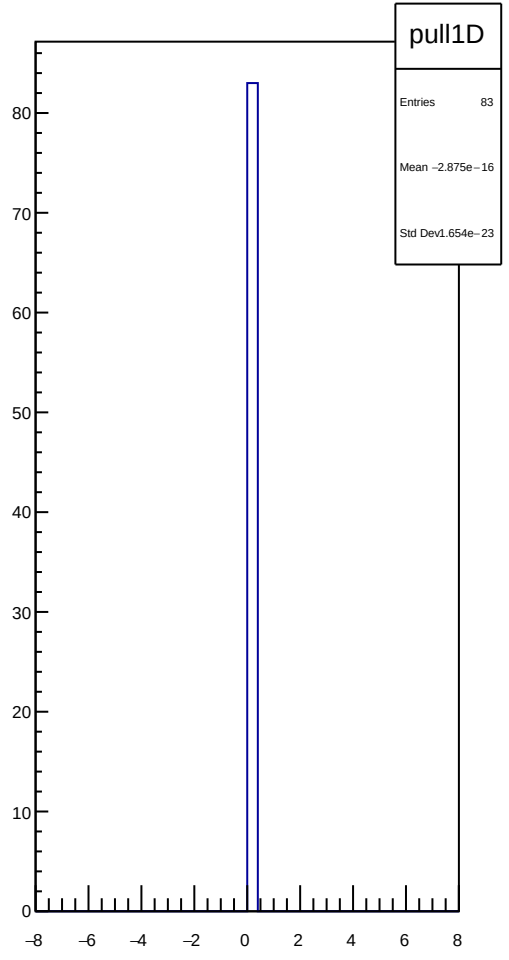

dit_atl2_4eY_slope vs run
χ² / ndf 3.323e−24 / 82
p0 144.5 ± 0.1559
146
145.5
145
144.5
144
143.5
143
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2

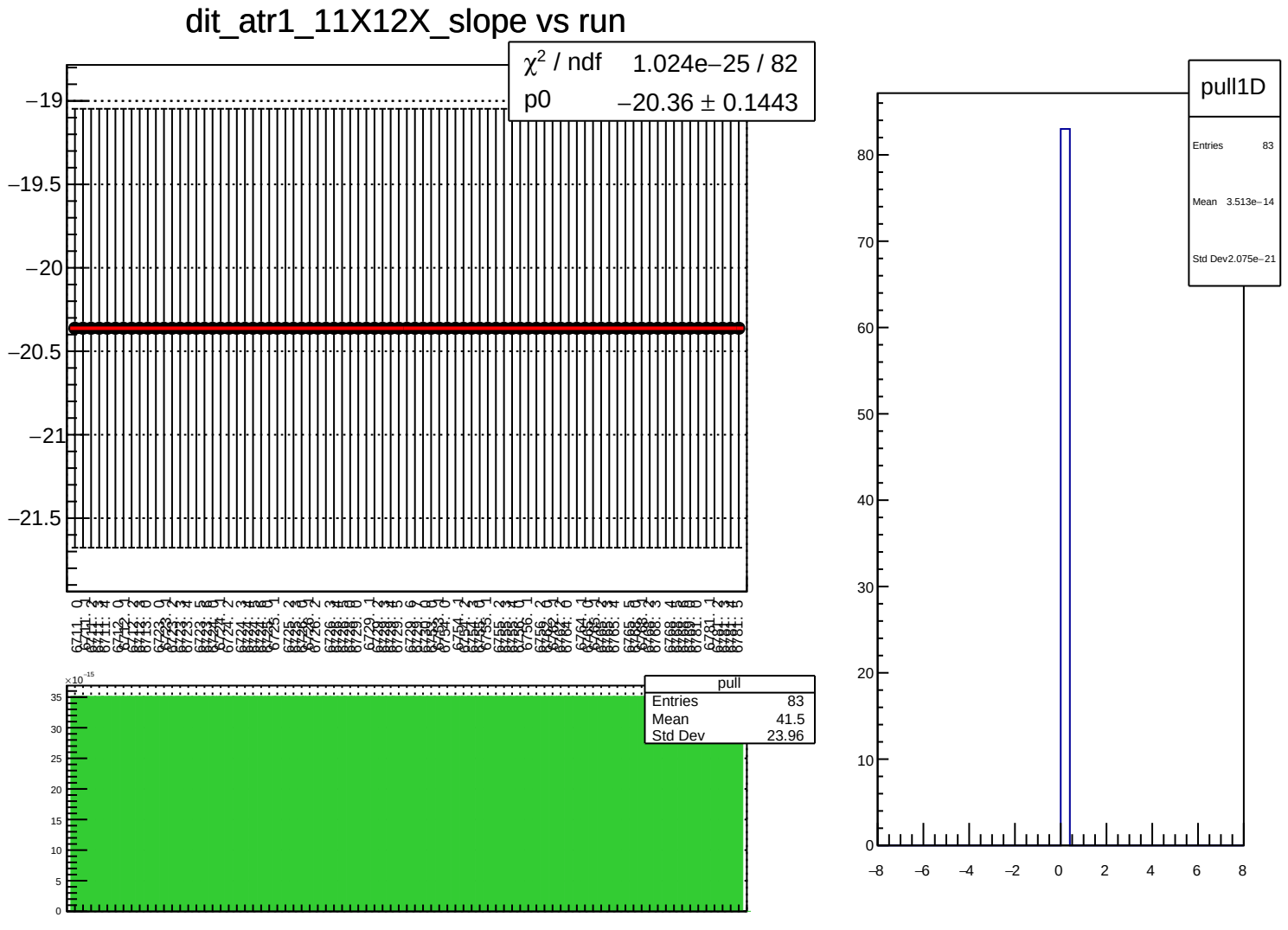

pull1D
Entries 83
Mean −2.001e−13
Std Dev6.776e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

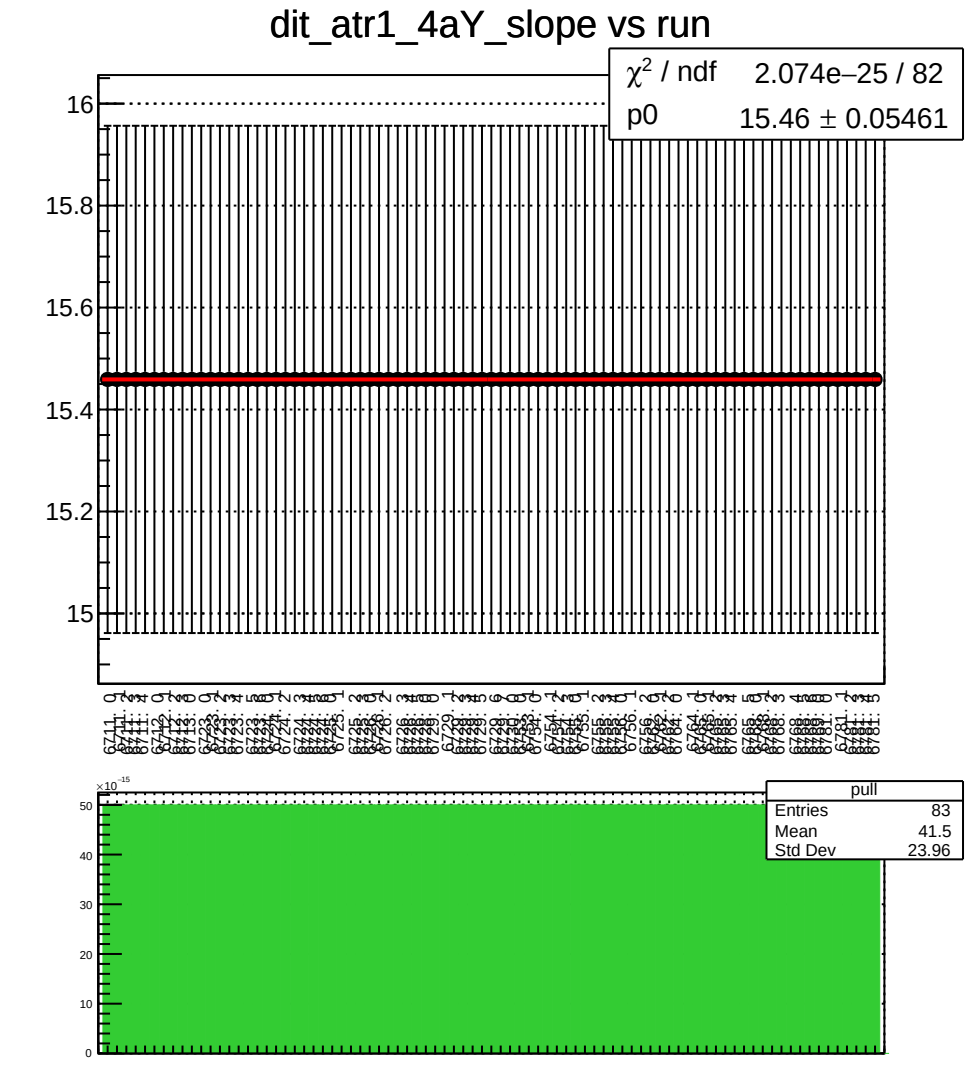

dit_atr1_4aX_slope vs run
χ² / ndf 1.444e−27 / 82
p0 −73.98 ± 0.748
pull
Entries 83
Mean 41.5
Std Dev 23.96

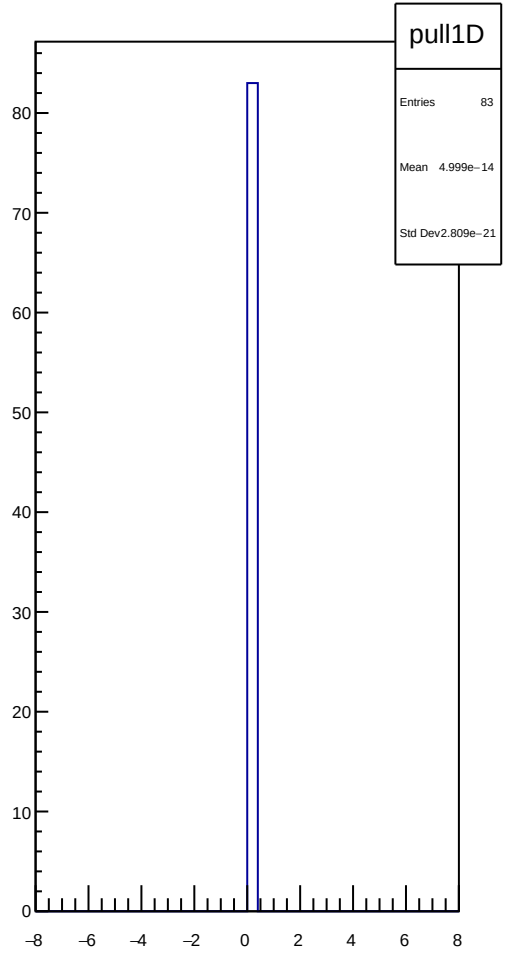

pull1D
Entries 83
Mean 4.171e−15
Std Dev1.184e−22

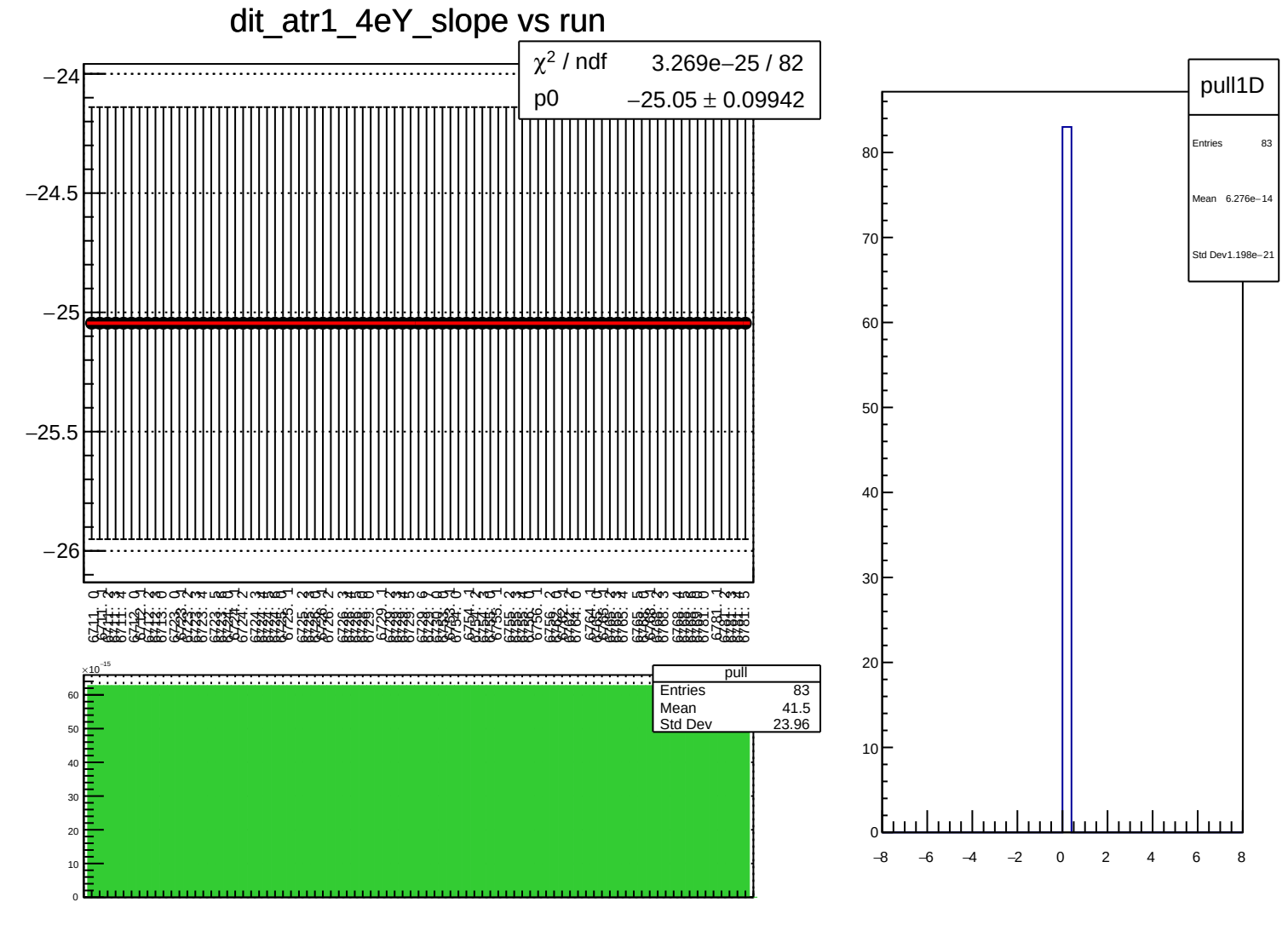

dit_atr1_4eX_slope vs run
χ² / ndf 6.859e−30 / 82
p0 14.41 ± 0.6783
pull
Entries 83
Mean 41.5
Std Dev 23.96

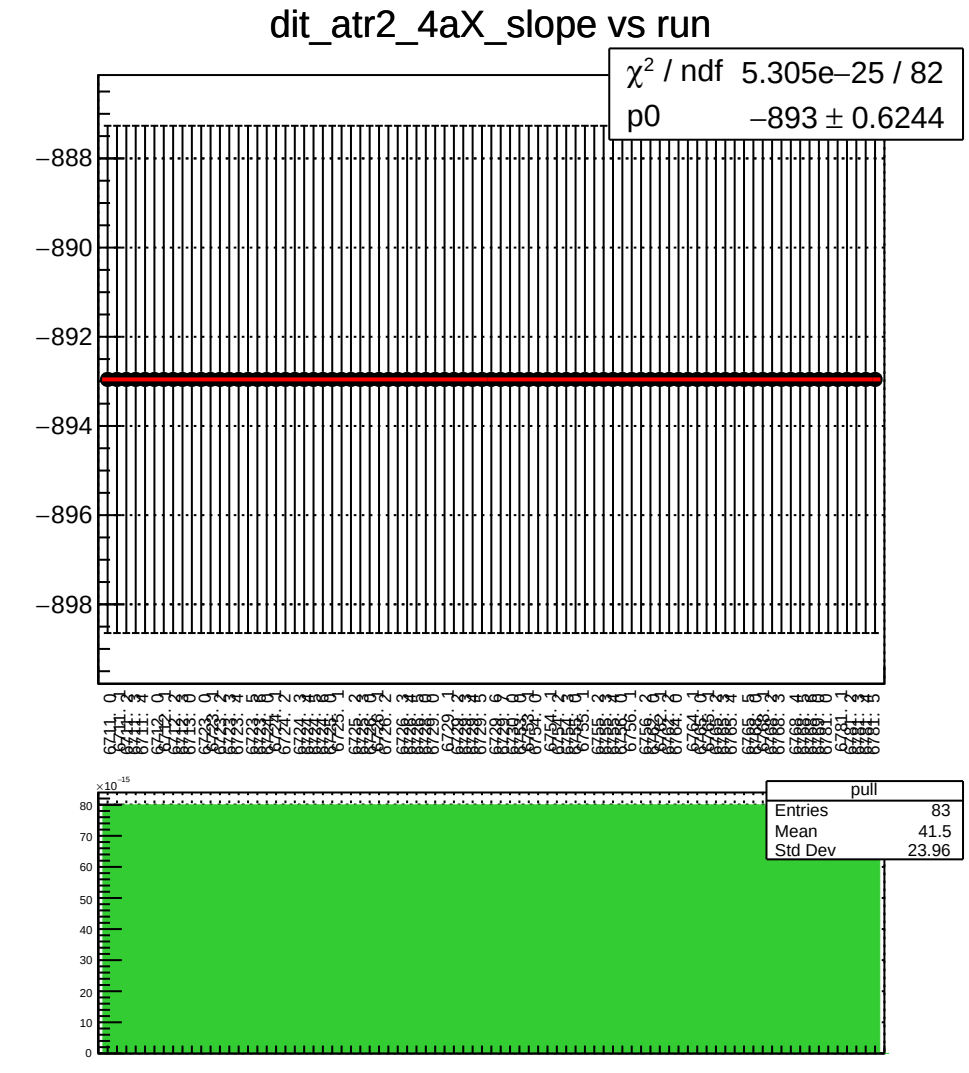

pull1D
Entries 83
Mean −2.875e−16
Std Dev1.654e−23

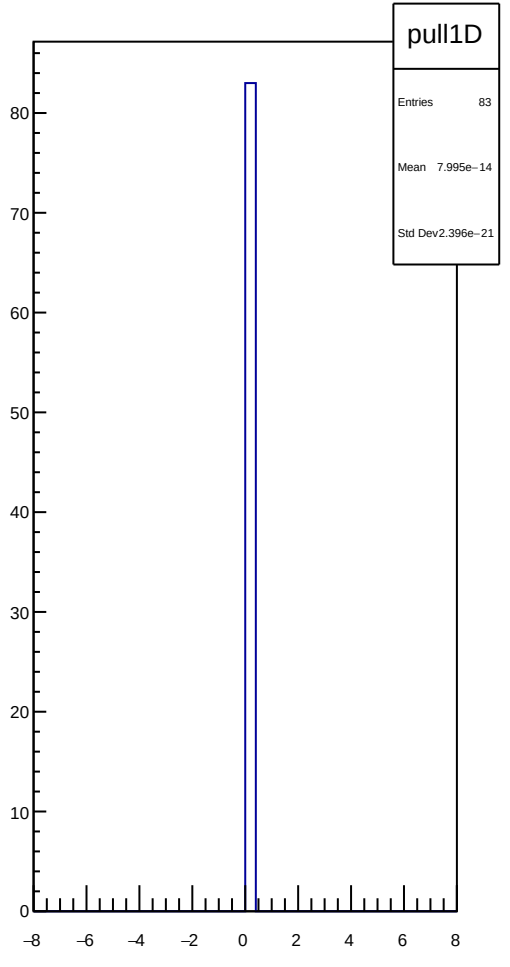

dit_atr1_11X12X_slope vs run
χ² / ndf 1.024e−25 / 82
p0 −20.36 ± 0.1443
−19
−19.5
−20
−20.5
−21
−21.5
pull
Entries 83
Mean 41.5
Std Dev 23.96
pull1D
Entries 83
Mean 3.513e−14
Std Dev2.075e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

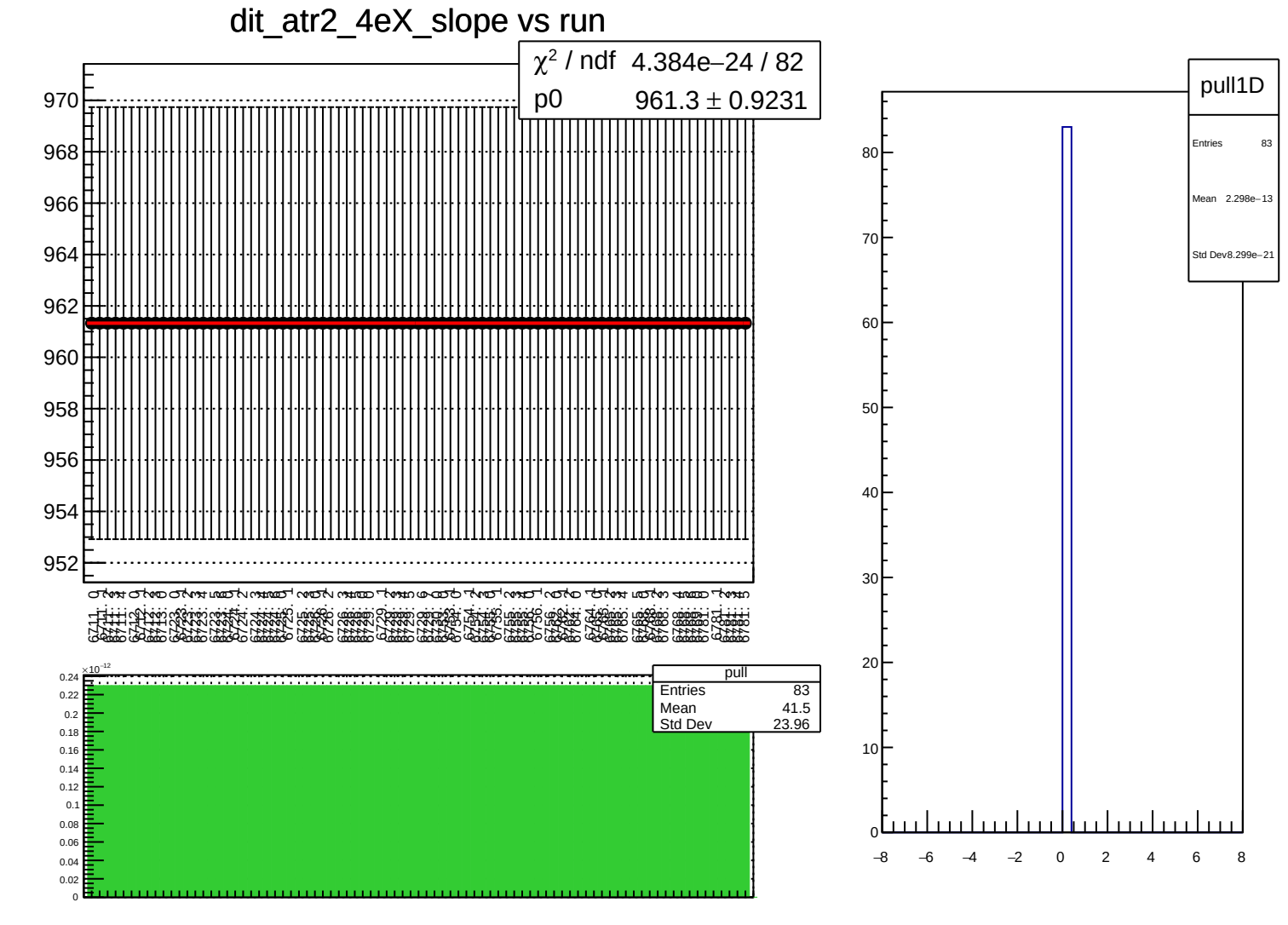

dit_atr1_4aY_slope vs run
χ² / ndf 2.074e−25 / 82
p0 15.46 ± 0.05461
16
15.8
15.6
15.4
15.2
15
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
50
40
30
20
10
0

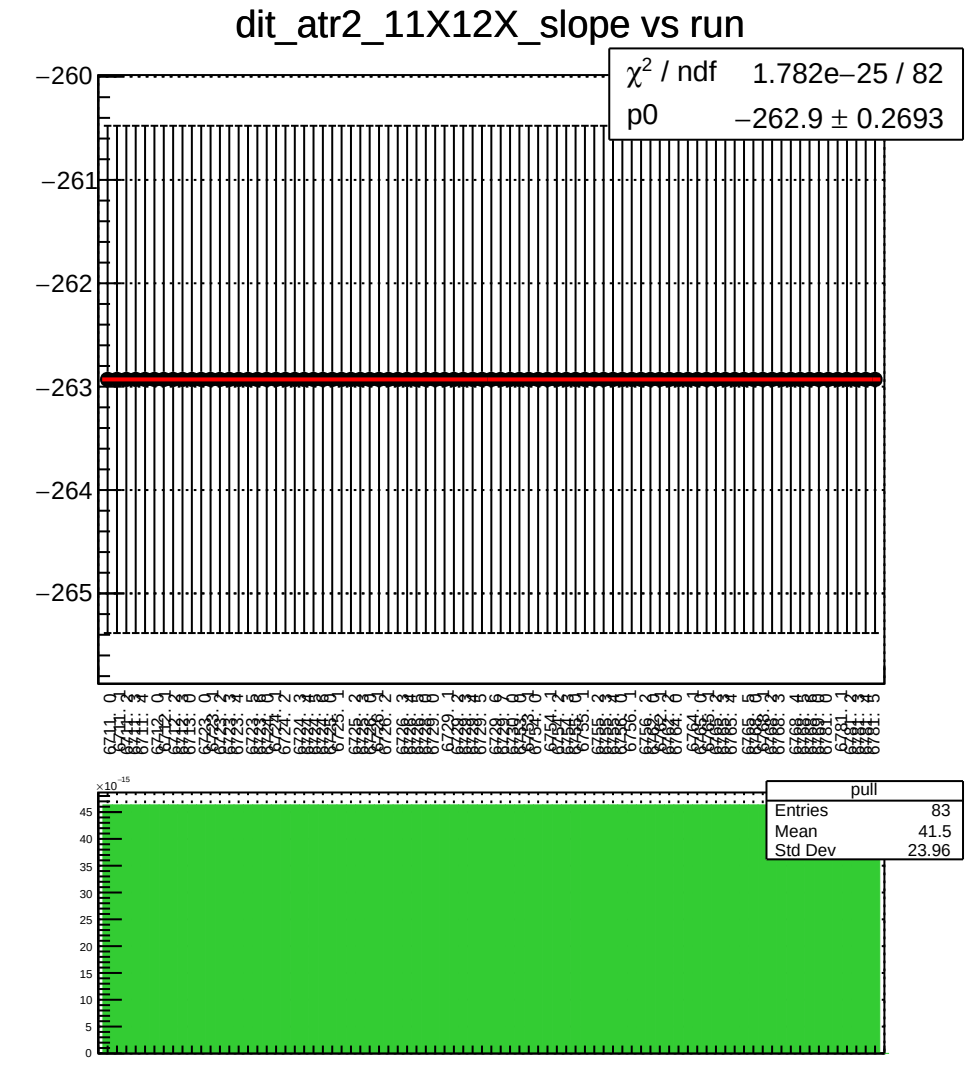

pull1D
Entries 83
Mean 4.999e−14
Std Dev2.809e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

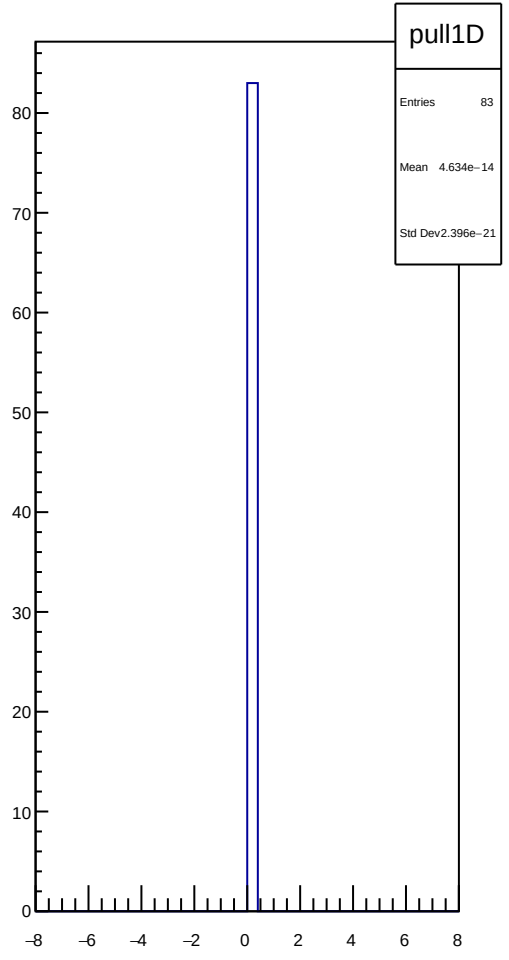

dit_atr1_4eY_slope vs run
χ² / ndf 3.269e−25 / 82
p0 −25.05 ± 0.09942
−24
−24.5
−25
−25.5
−26
pull
Entries 83
Mean 41.5
Std Dev 23.96
pull1D
Entries 83
Mean 6.276e−14
Std Dev1.198e−21


dit_atr2_4aX_slope vs run
χ² / ndf 5.305e−25 / 82
p0 −893 ± 0.6244
−888
−890
−892
−894
−896
−898
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
80
70
60
50
40
30
20
10
0


pull1D
Entries 83
Mean 7.995e−14
Std Dev2.396e−21
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 4.384e−24 / 82
p0 961.3 ± 0.9231
970
968
966
964
962
960
958
956
954
952
×10⁻¹²
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 83
Mean 41.5
Std Dev 23.96
pull1D
Entries 83
Mean 2.298e−13
Std Dev 8.299e−21
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 1.782e−25 / 82
p0 −262.9 ± 0.2693
−260
−261
−262
−263
−264
−265
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
45
40
35
30
25
20
15
10
5
0


pull1D
Entries 83
Mean 4.634e−14
Std Dev2.396e−21
80
70
60
50
40
30
20
10
0
−8
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−4
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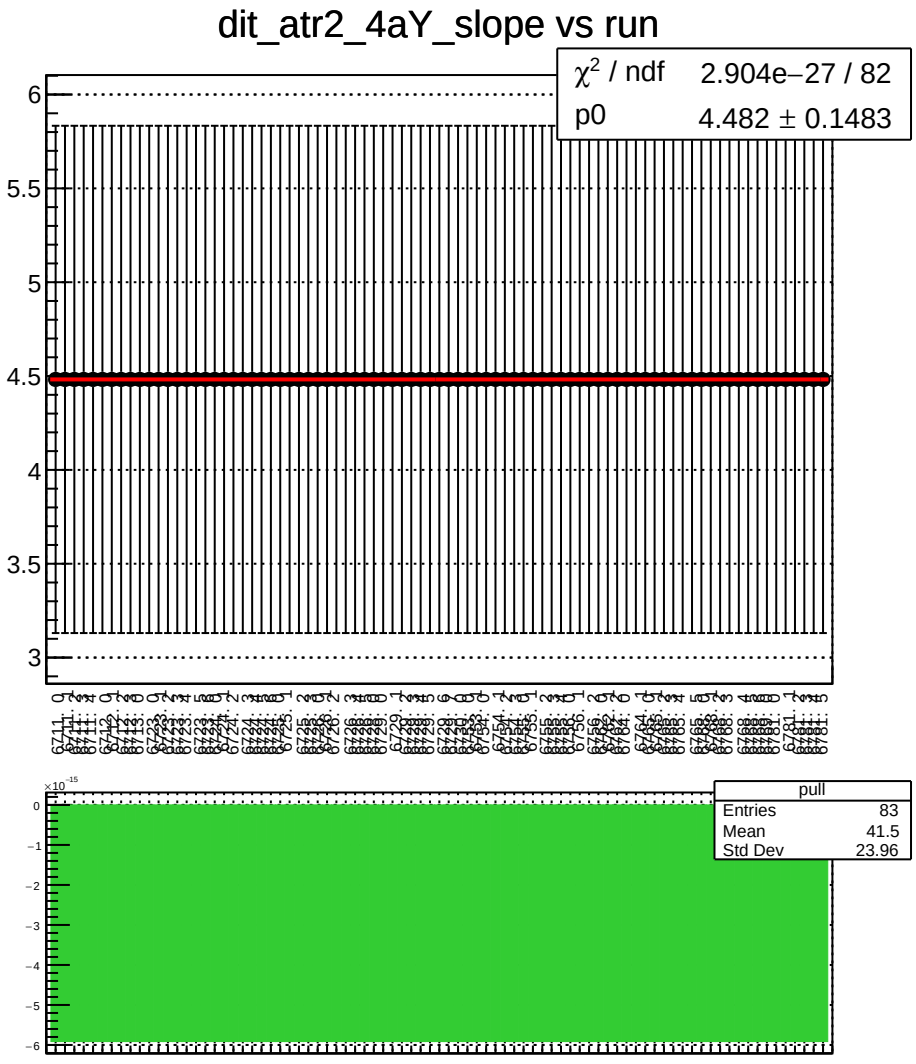
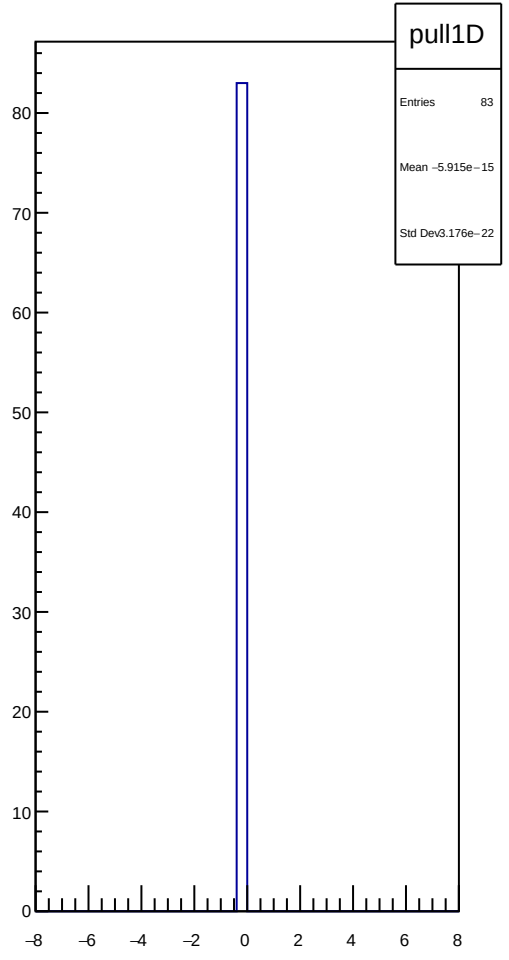
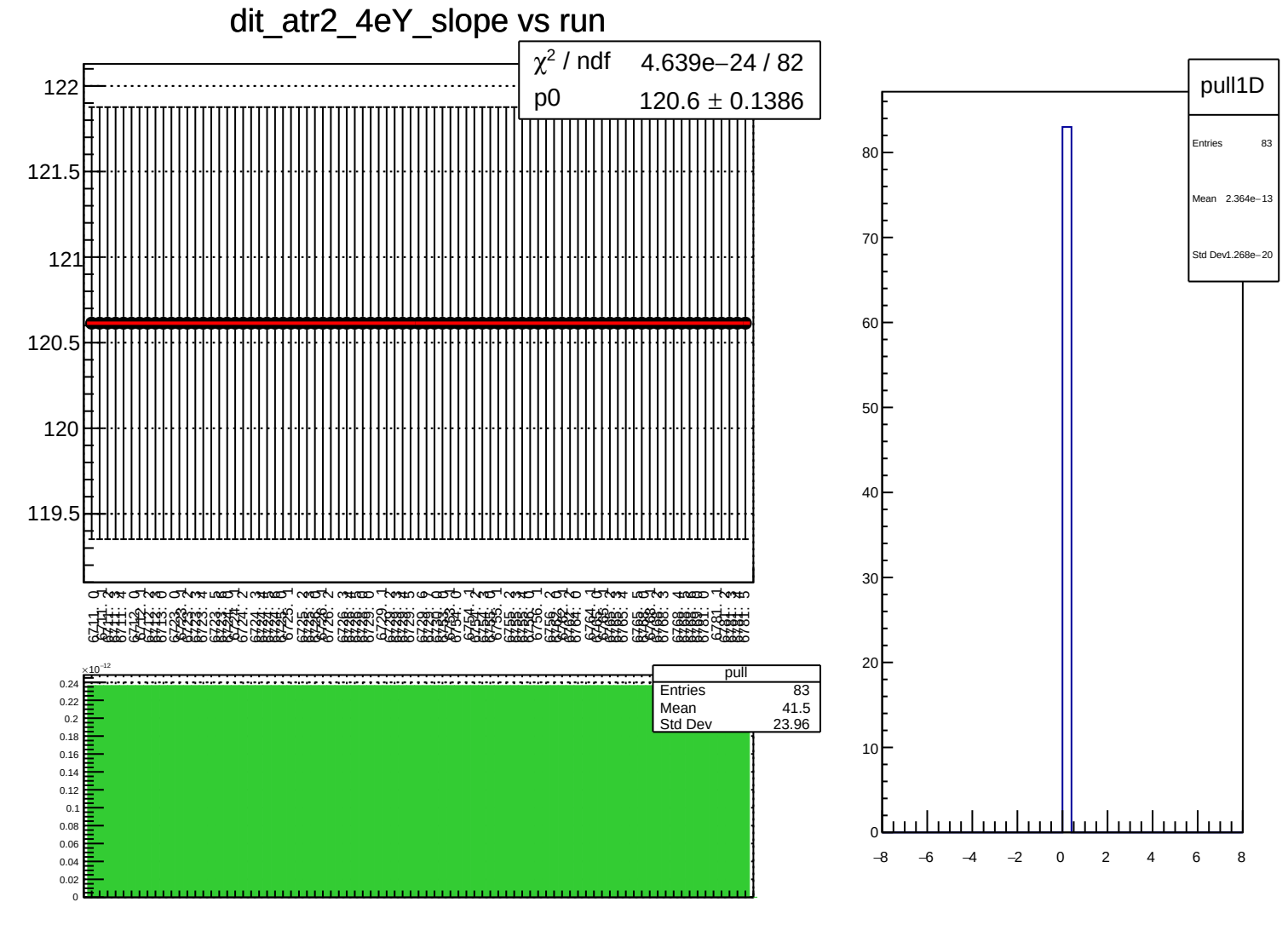
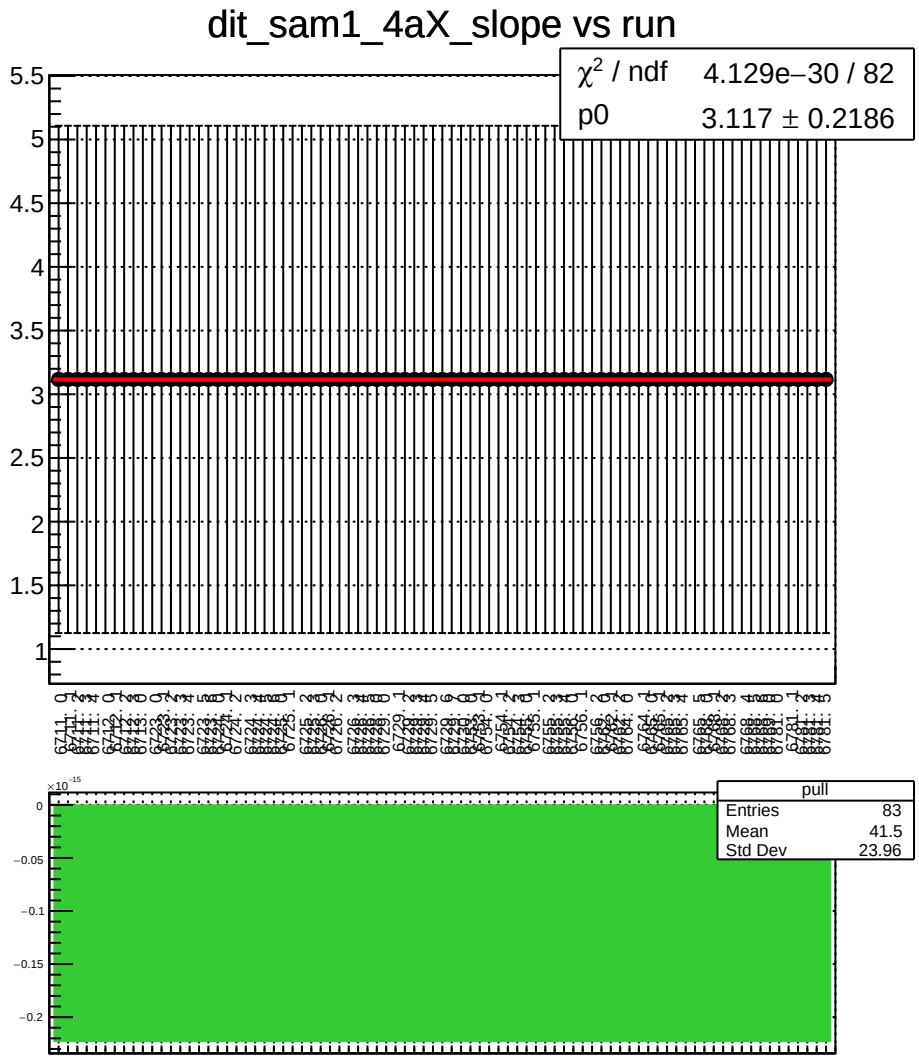
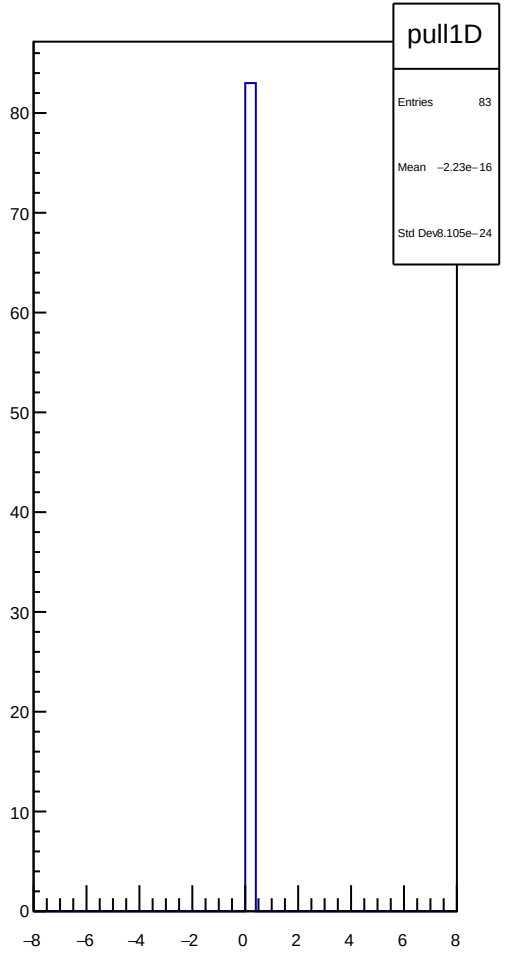
2
4
6
8

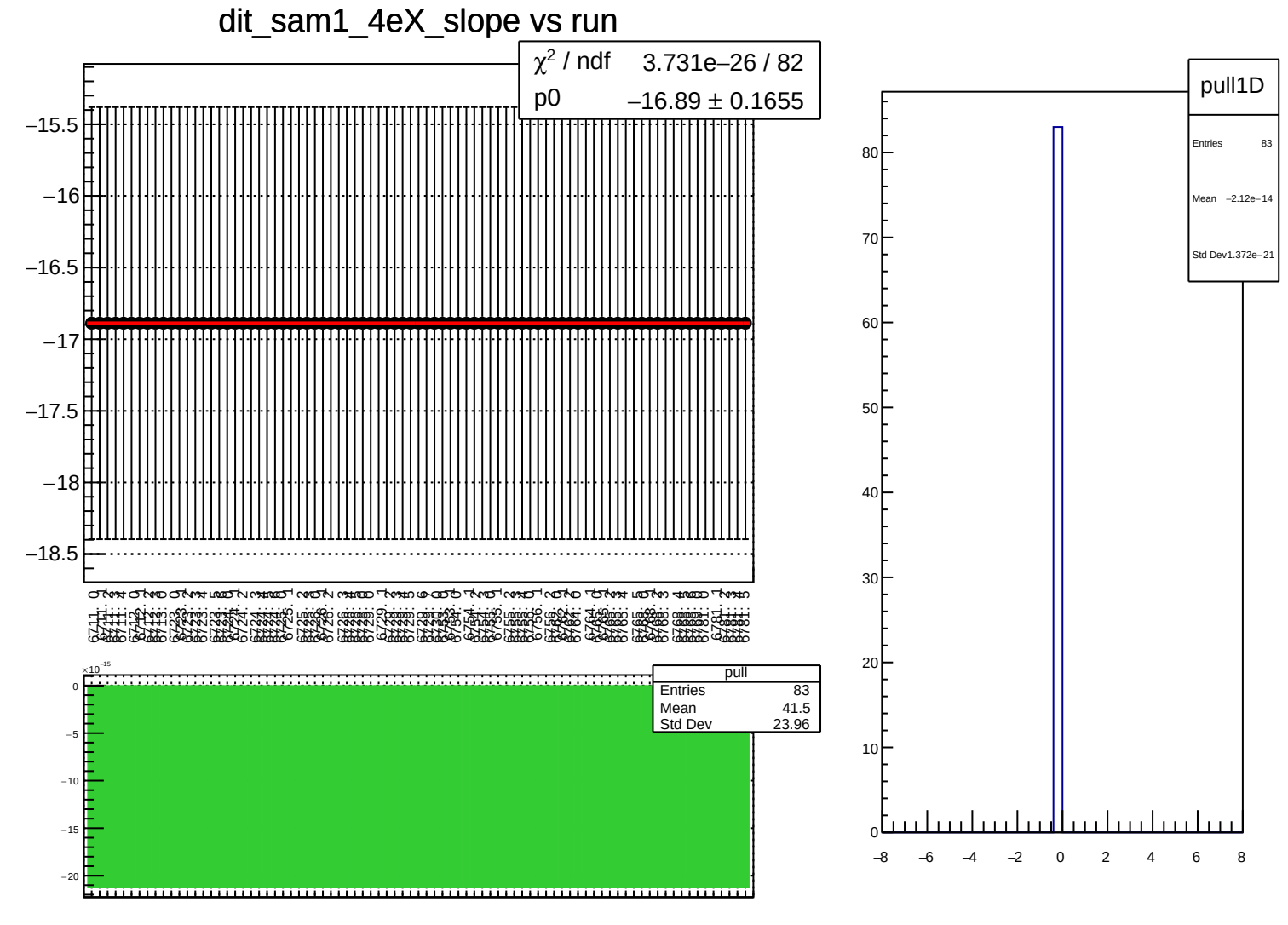

dit_atr2_4aY_slope vs run
χ² / ndf 2.904e−27 / 82
p0 4.482 ± 0.1483
pull
Entries 83
Mean 41.5
Std Dev 23.96

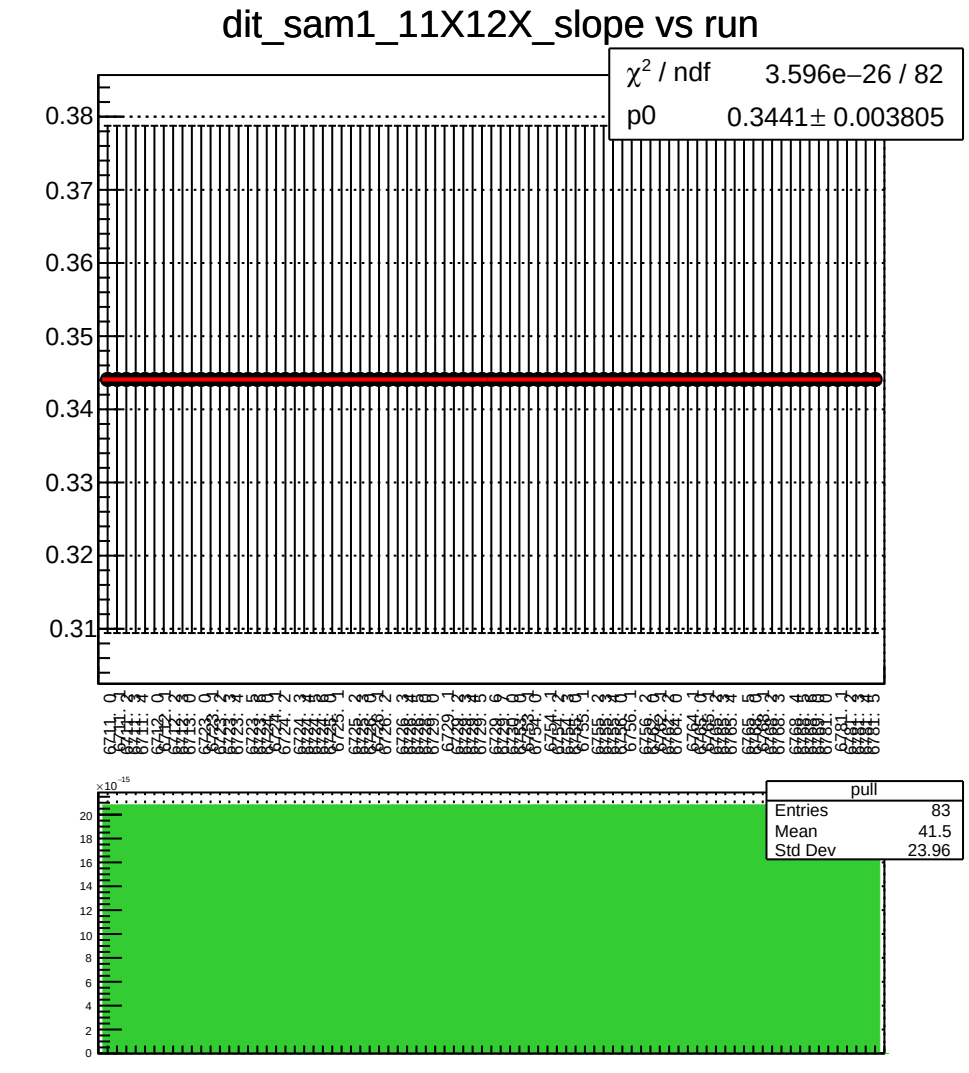

pull1D
Entries 83
Mean −5.915e−15
Std Dev 3.176e−22

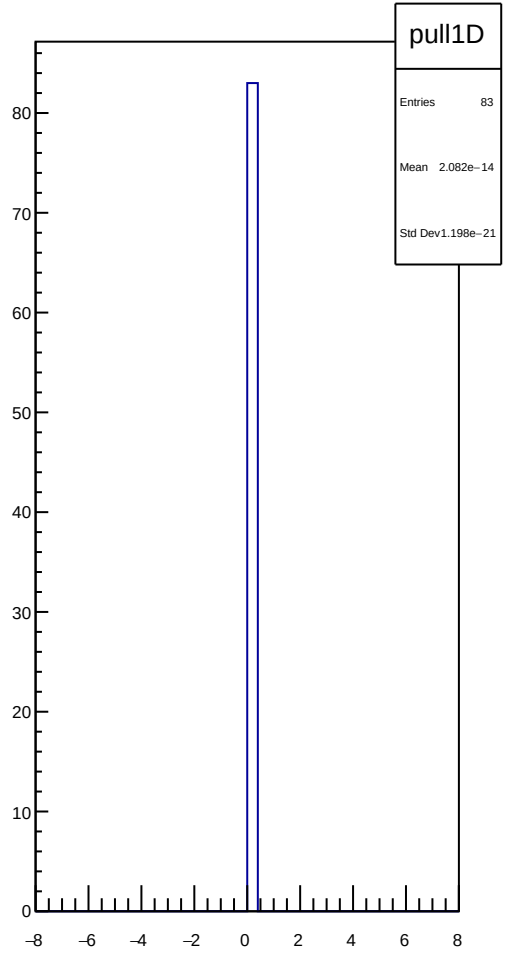

dit_atr2_4eY_slope vs run
χ² / ndf 4.639e−24 / 82
p0 120.6 ± 0.1386
122
121.5
121
120.5
120
119.5
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹²
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull1D
Entries 83
Mean 2.364e−13
Std Dev1.268e−20
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

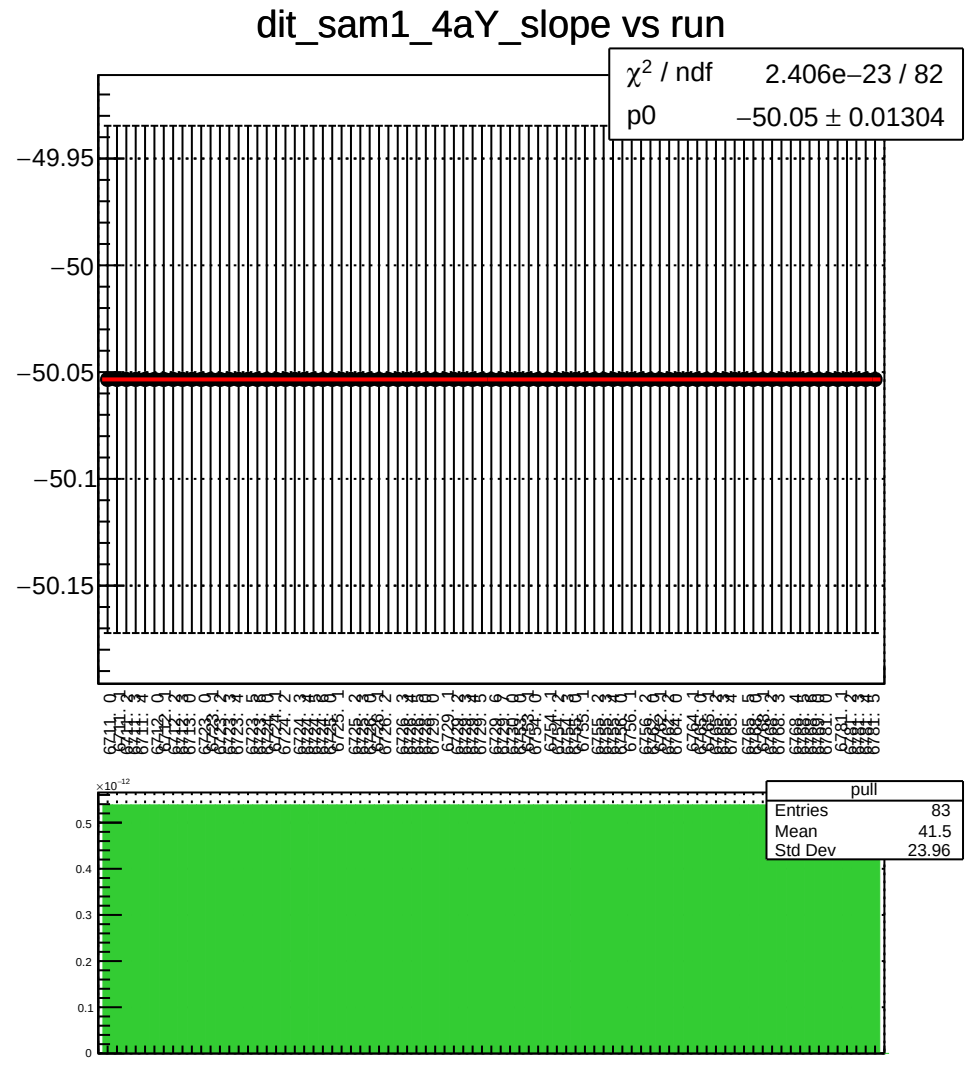

dit_sam1_4aX_slope vs run
χ² / ndf 4.129e−30 / 82
p0 3.117 ± 0.2186
pull
Entries 83
Mean 41.5
Std Dev 23.96

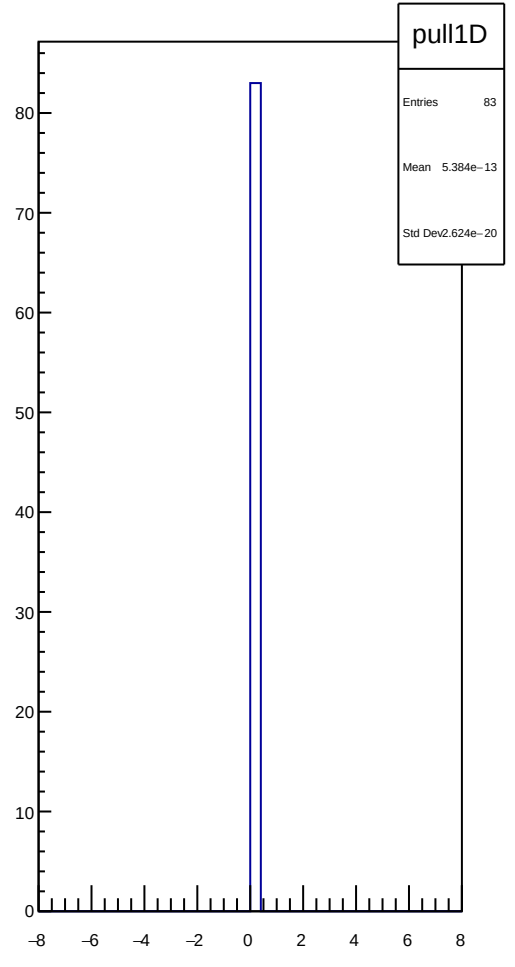

pull1D
Entries 83
Mean −2.23e−16
Std Dev 8.105e−24

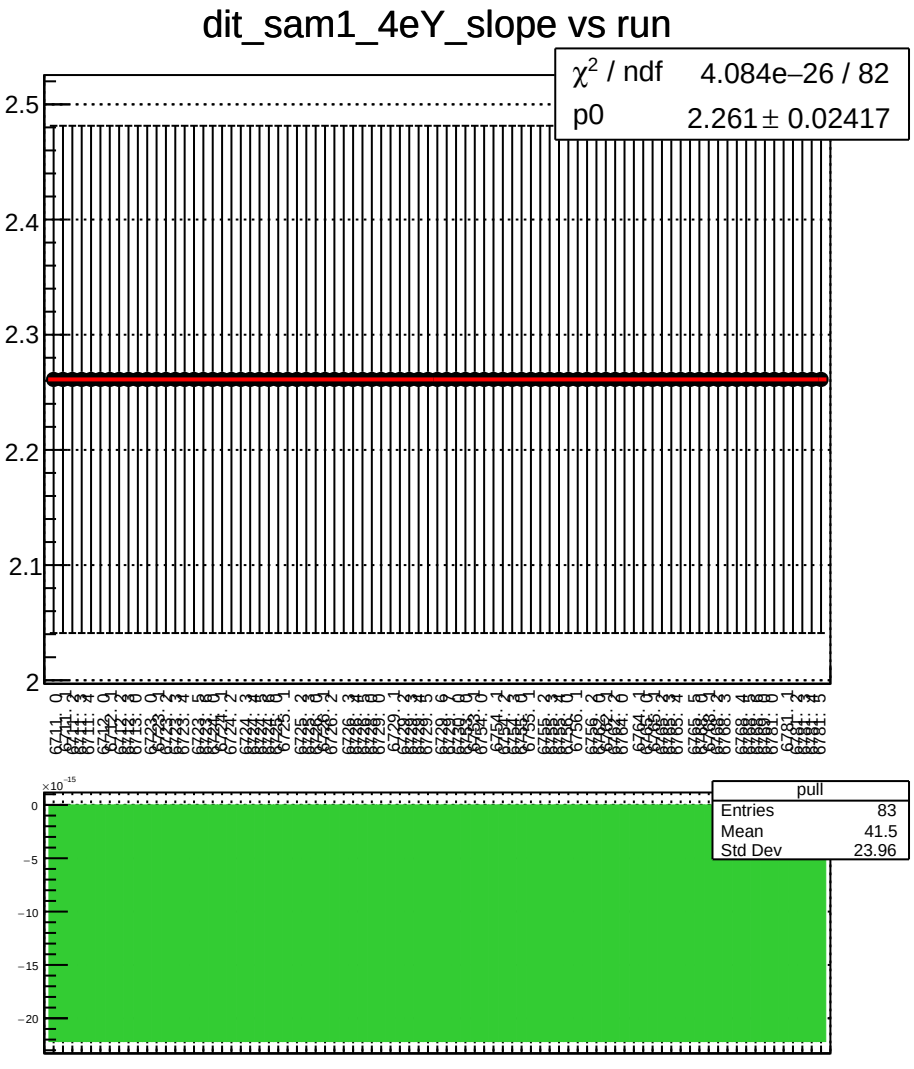

dit_sam1_4eX_slope vs run
χ² / ndf 3.731e−26 / 82
p0 −16.89 ± 0.1655
−15.5
−16
−16.5
−17
−17.5
−18
−18.5
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
0
−5
−10
−15
−20
pull1D
Entries 83
Mean −2.12e−14
Std Dev1.372e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

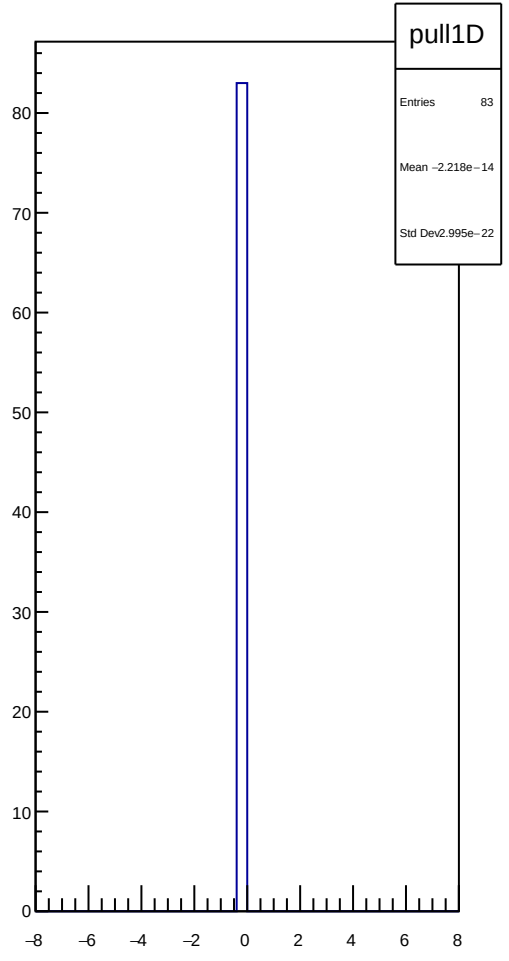

dit_sam1_11X12X_slope vs run
χ² / ndf 3.596e−26 / 82
p0 0.3441± 0.003805
0.38
0.37
0.36
0.35
0.34
0.33
0.32
0.31
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
20
18
16
14
12
10
8
6
4
2
0

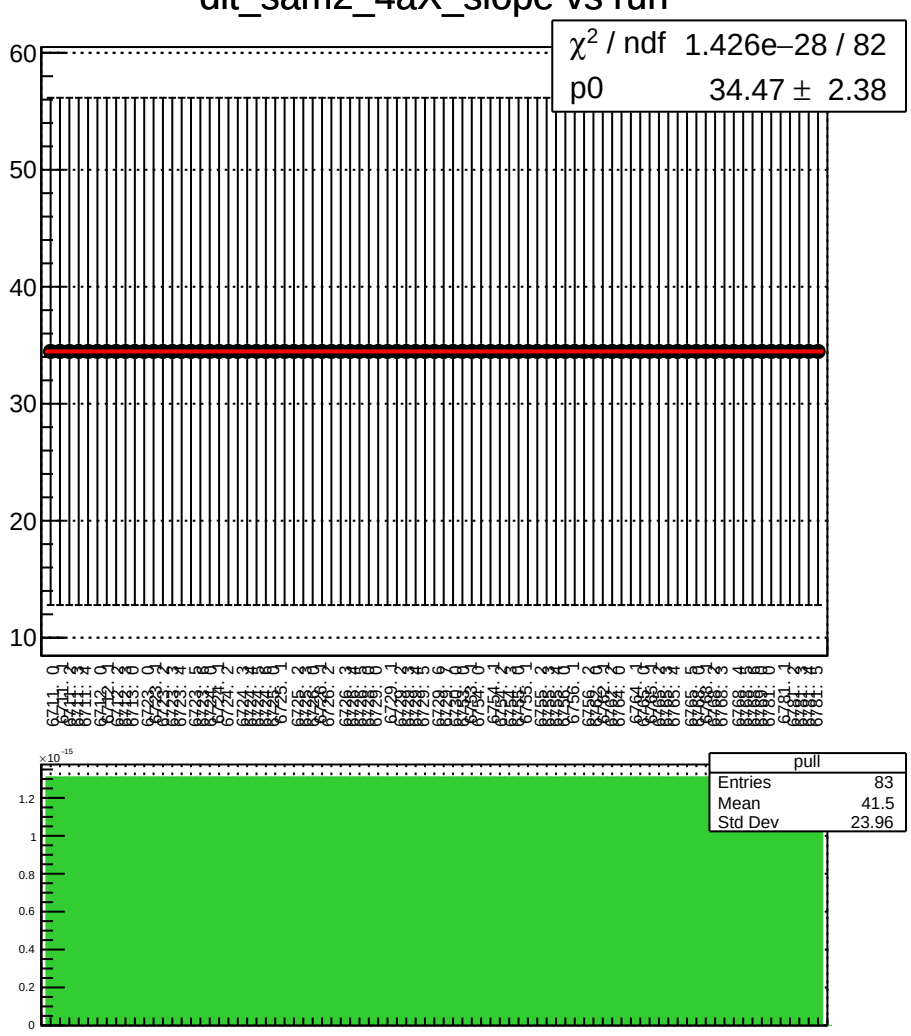

pull1D
Entries 83
Mean 2.082e−14
Std Dev1.198e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

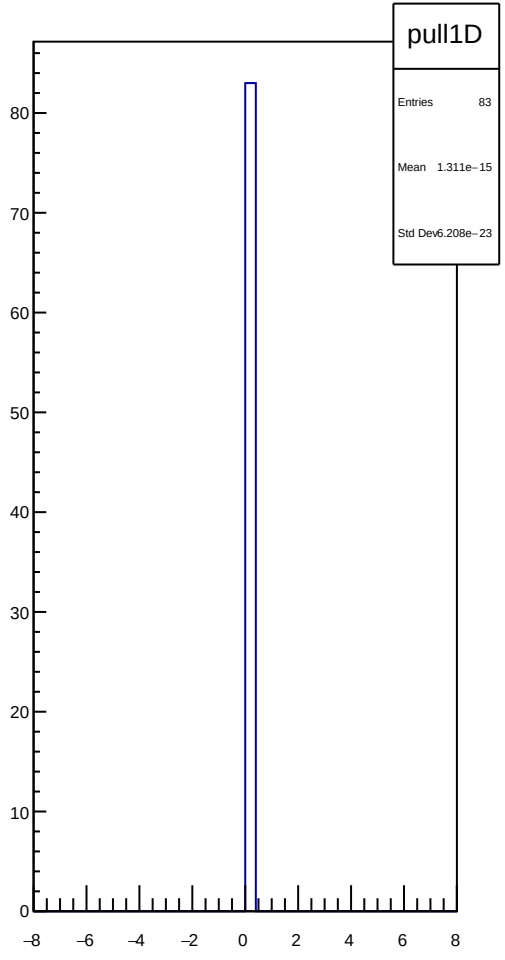

dit_sam1_4aY_slope vs run
χ² / ndf 2.406e−23 / 82
p0 −50.05 ± 0.01304
−49.95
−50
−50.05
−50.1
−50.15
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹²
0.5
0.4
0.3
0.2
0.1
0

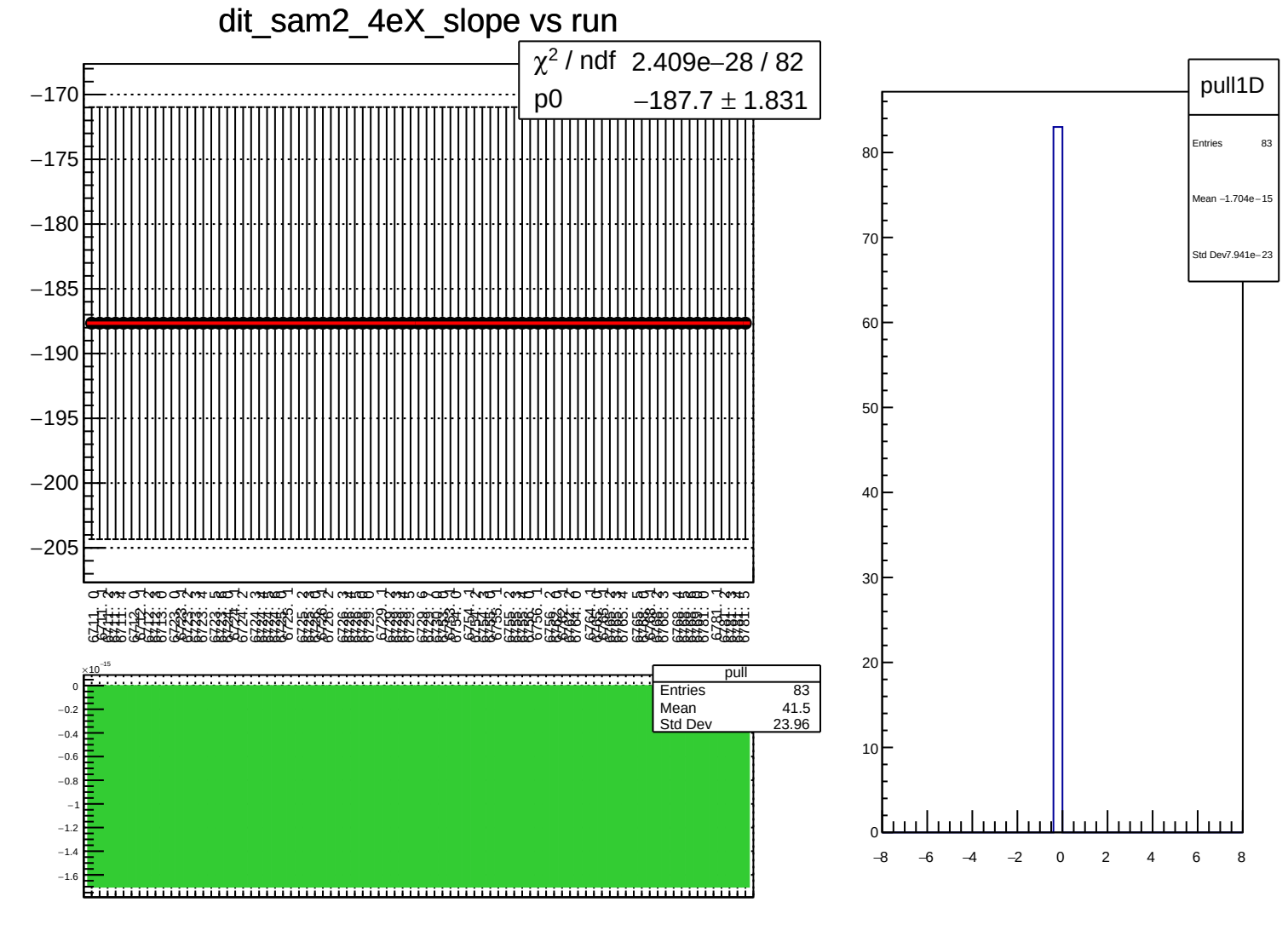

pull1D
Entries 83
Mean 5.384e−13
Std Dev 2.624e−20
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

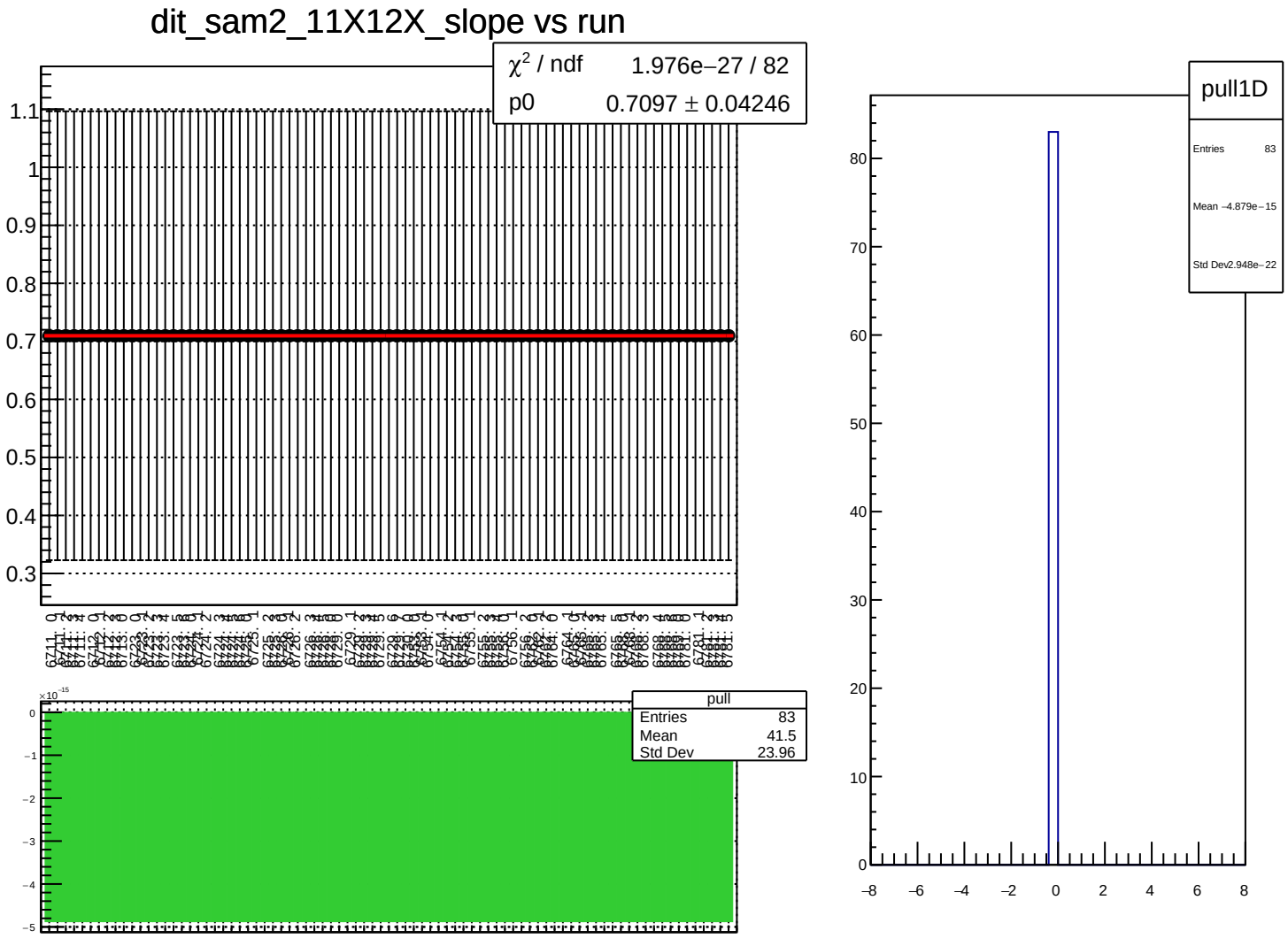

dit_sam1_4eY_slope vs run
χ² / ndf 4.084e−26 / 82
p0 2.261 ± 0.02417
2.5
2.4
2.3
2.2
2.1
2
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
0
−5
−10
−15
−20

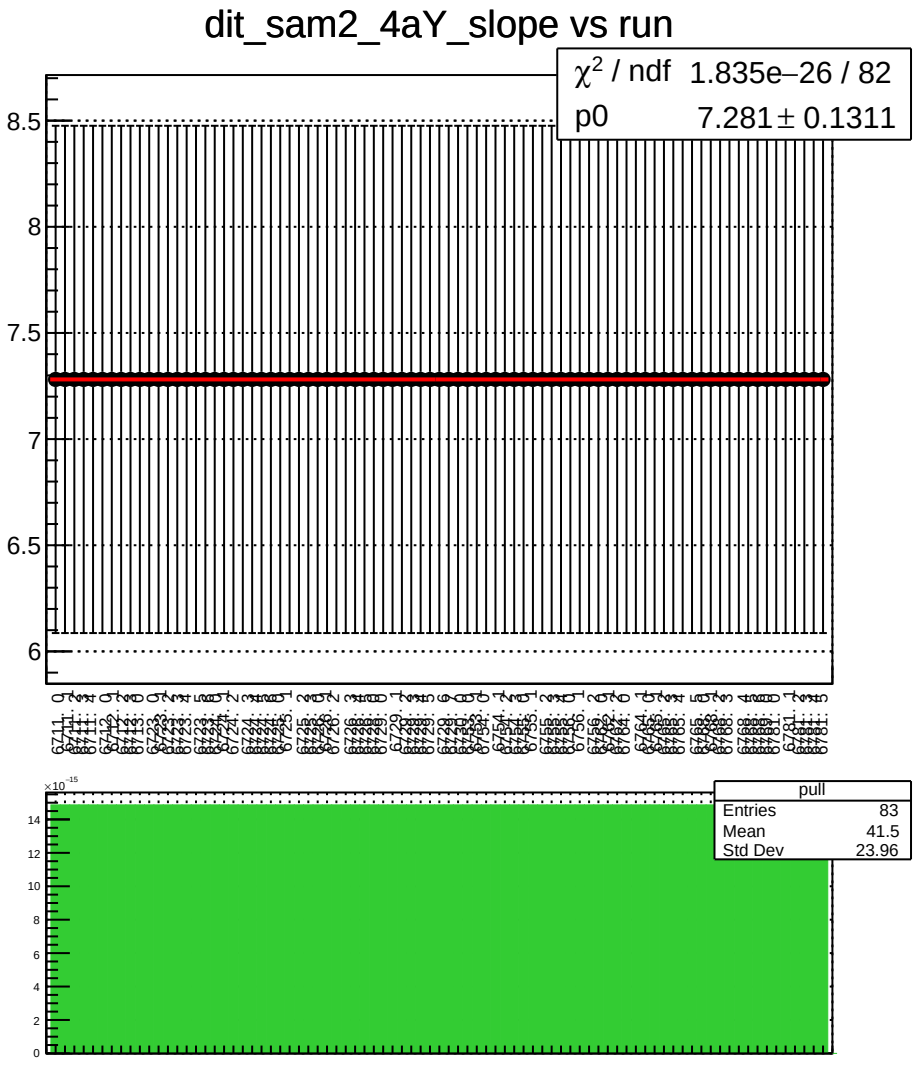

pull1D
Entries 83
Mean −2.218e−14
Std Dev 2.995e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

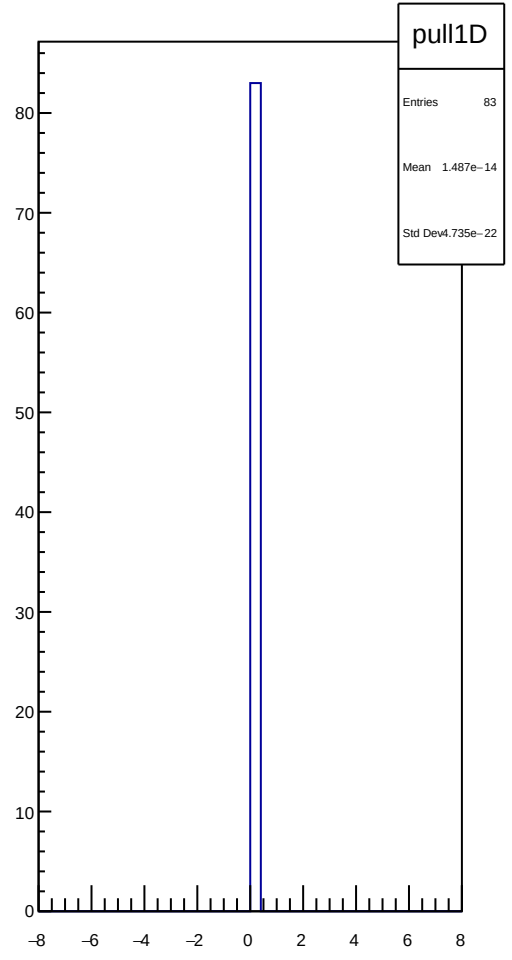

dit_sam2_4aX_slope vs run
χ² / ndf 1.426e−28 / 82
p0 34.47 ± 2.38
pull
Entries 83
Mean 41.5
Std Dev 23.96

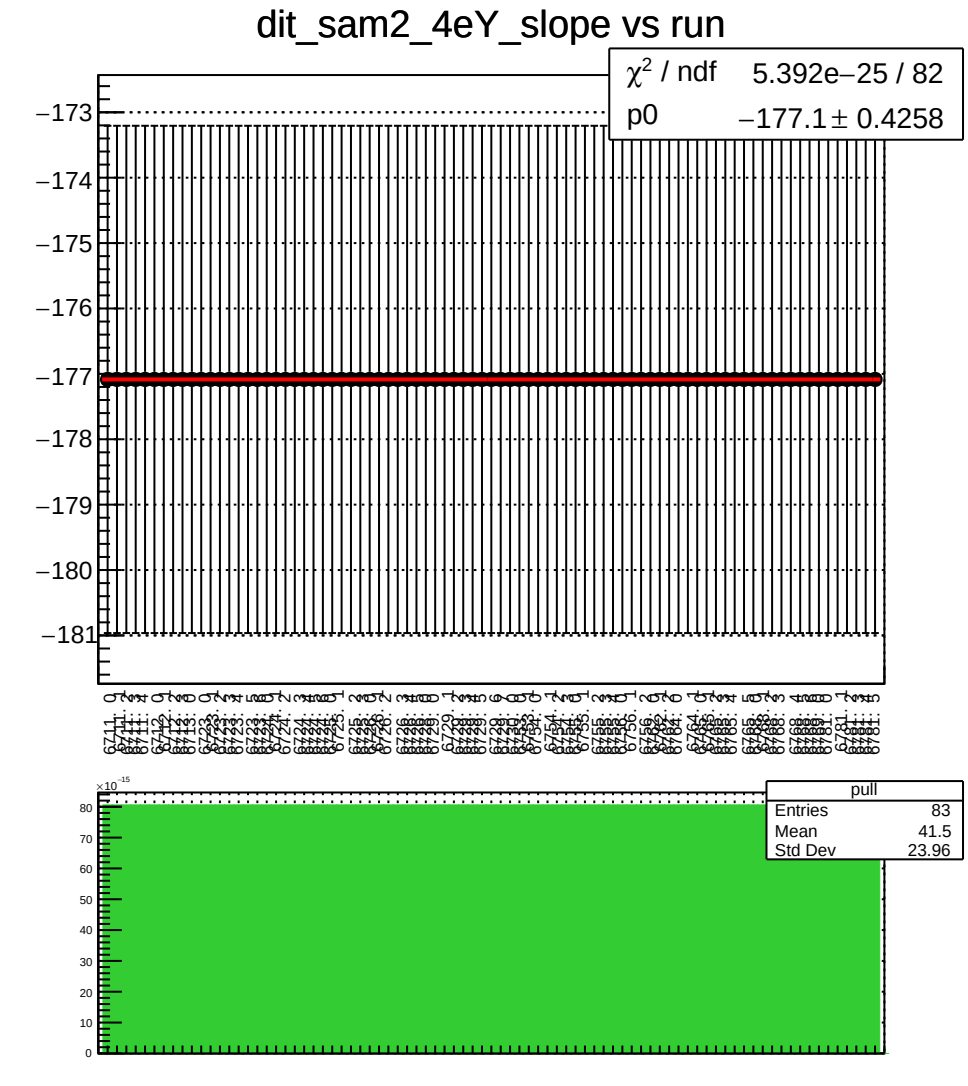

pull1D
Entries 83
Mean 1.311e−15
Std Dev 6.208e−23

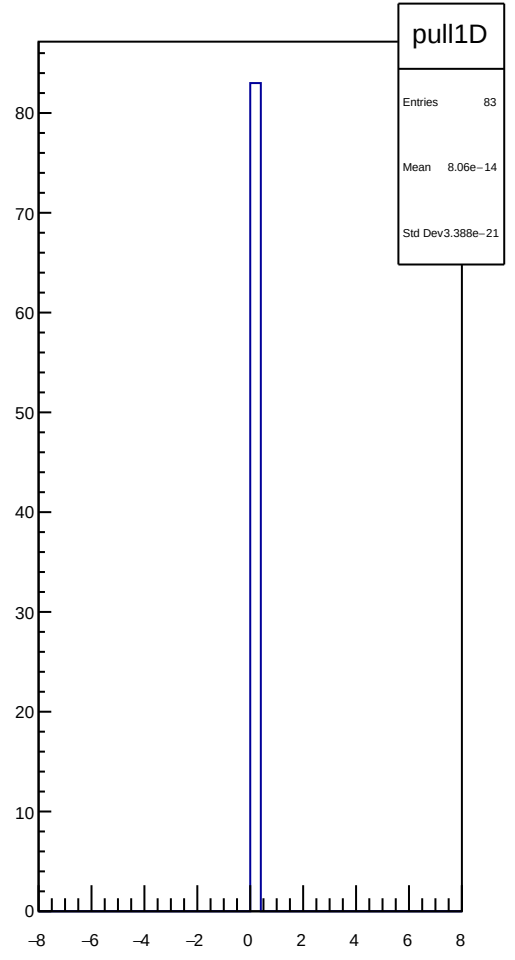

dit_sam2_4eX_slope vs run
χ² / ndf 2.409e−28 / 82
p0 −187.7 ± 1.831
−170
−175
−180
−185
−190
−195
−200
−205
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
pull1D
Entries 83
Mean −1.704e−15
Std Dev7.941e−23
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

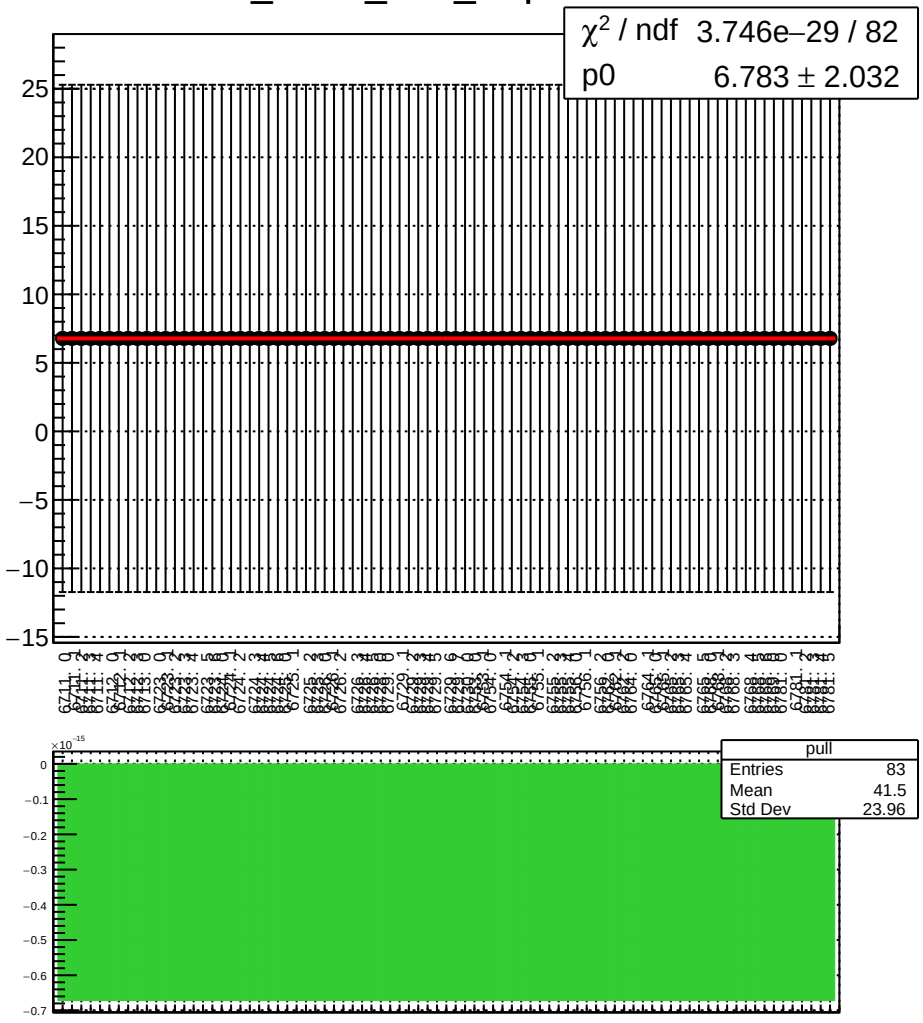

dit_sam2_11X12X_slope vs run
χ² / ndf 1.976e−27 / 82
p0 0.7097 ± 0.04246
pull
Entries 83
Mean 41.5
Std Dev 23.96
pull1D
Entries 83
Mean −4.879e−15
Std Dev2.948e−22

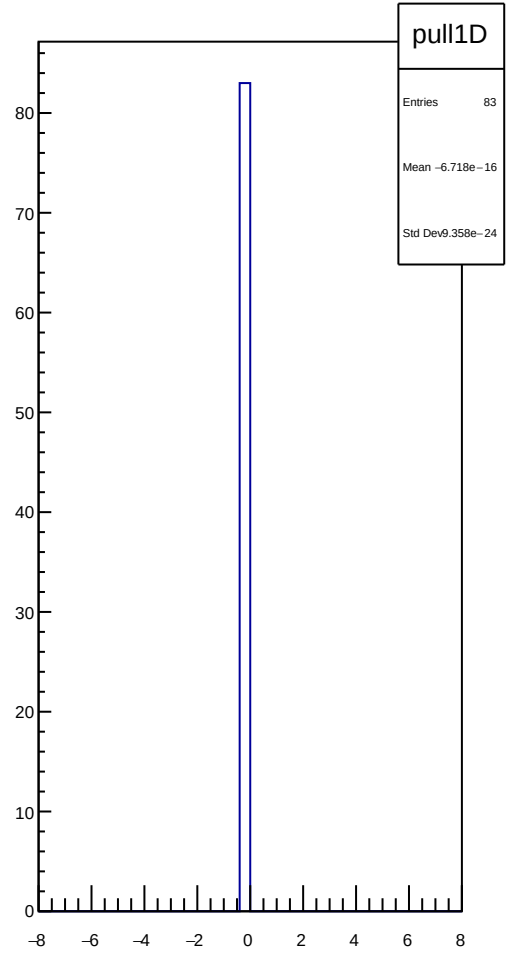

dit_sam2_4aY_slope vs run
χ² / ndf 1.835e−26 / 82
p0 7.281 ± 0.1311
pull
Entries 83
Mean 41.5
Std Dev 23.96

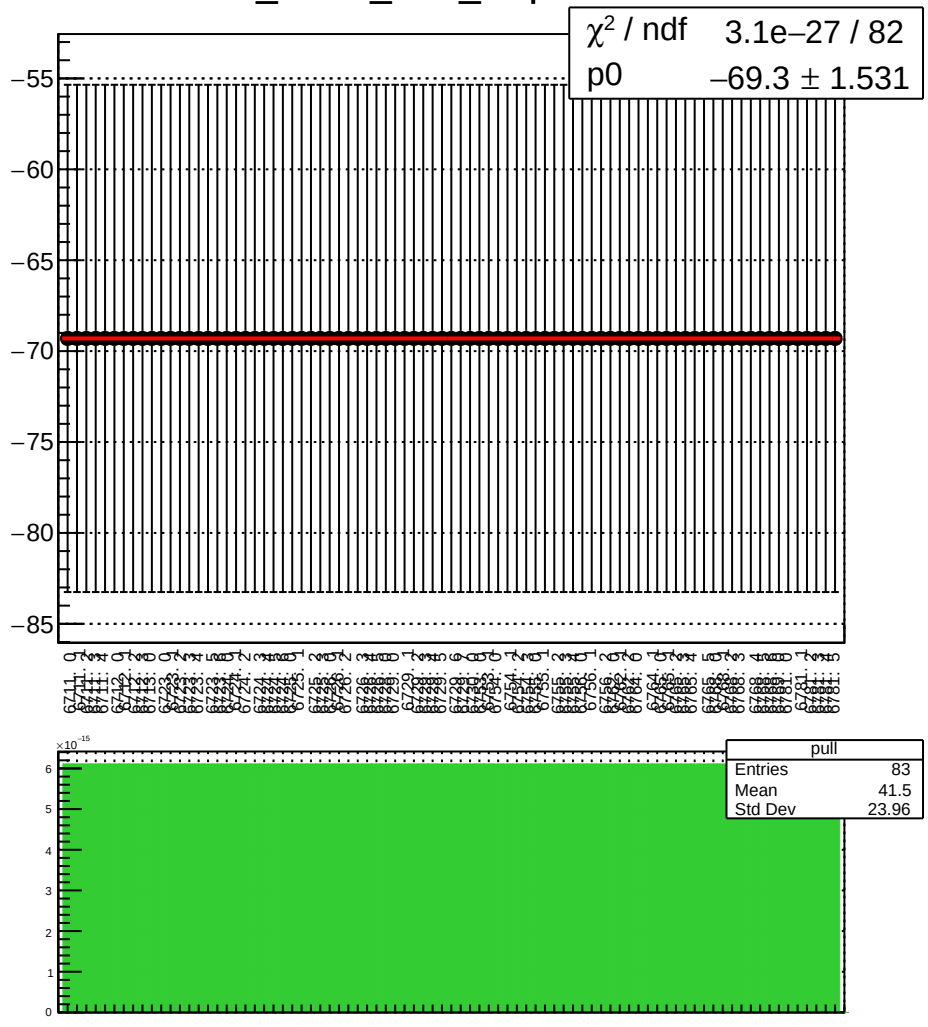

pull1D
Entries 83
Mean 1.487e−14
Std Dev 4.735e−22

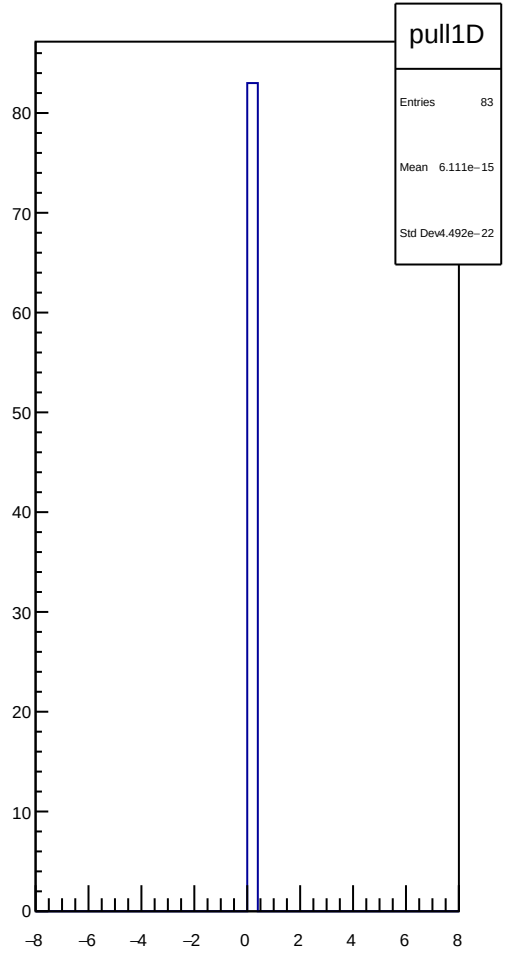

dit_sam2_4eY_slope vs run
χ² / ndf 5.392e−25 / 82
p0 −177.1 ± 0.4258
−173
−174
−175
−176
−177
−178
−179
−180
−181
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
80
70
60
50
40
30
20
10
0

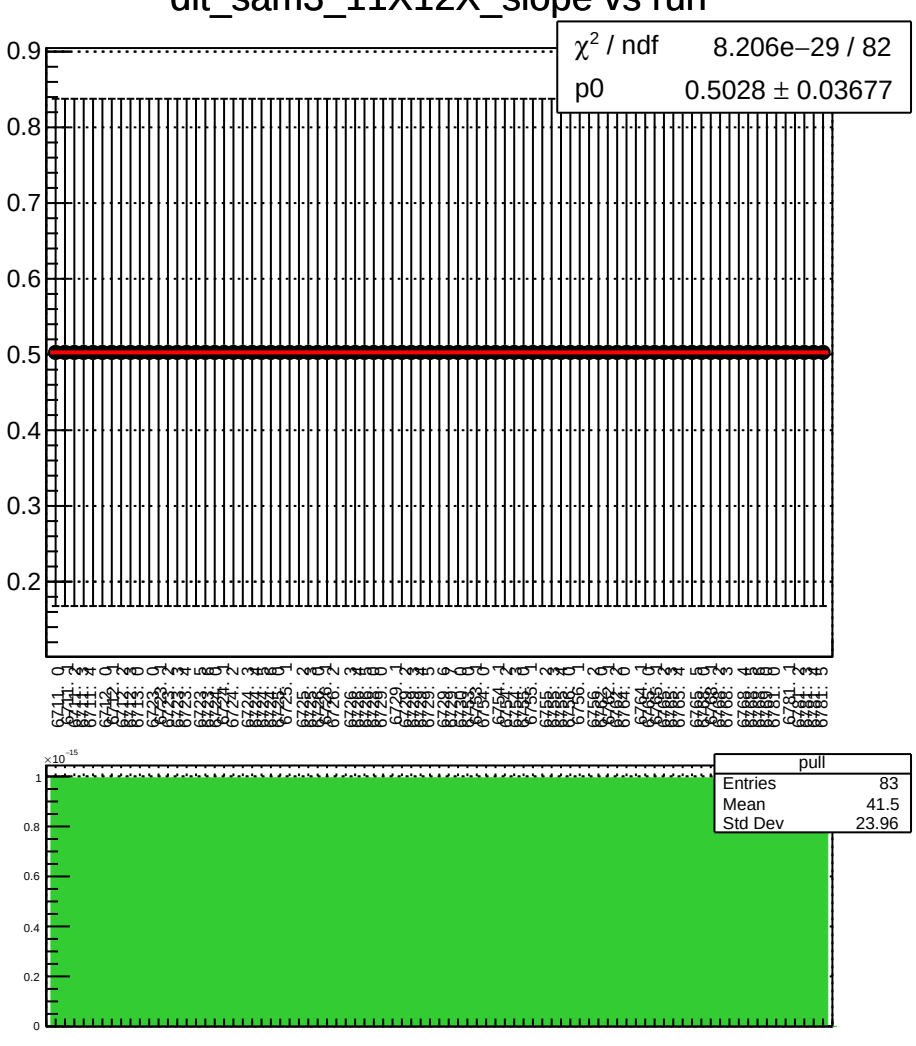

pull1D
Entries 83
Mean 8.06e−14
Std Dev3.388e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

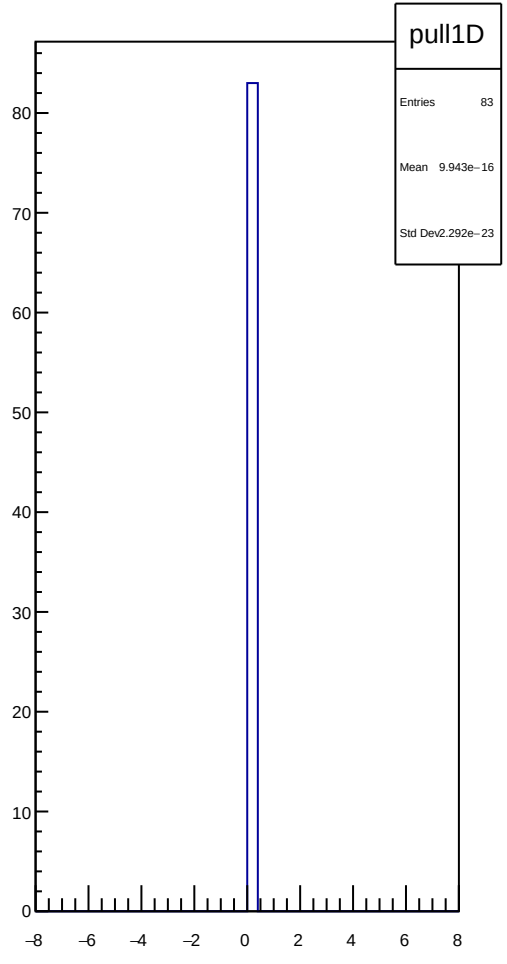

dit_sam3_4aX_slope vs run
χ^2 / ndf 3.746e−29 / 82
p0 6.783 ± 2.032
pull
Entries 83
Mean 41.5
Std Dev 23.96

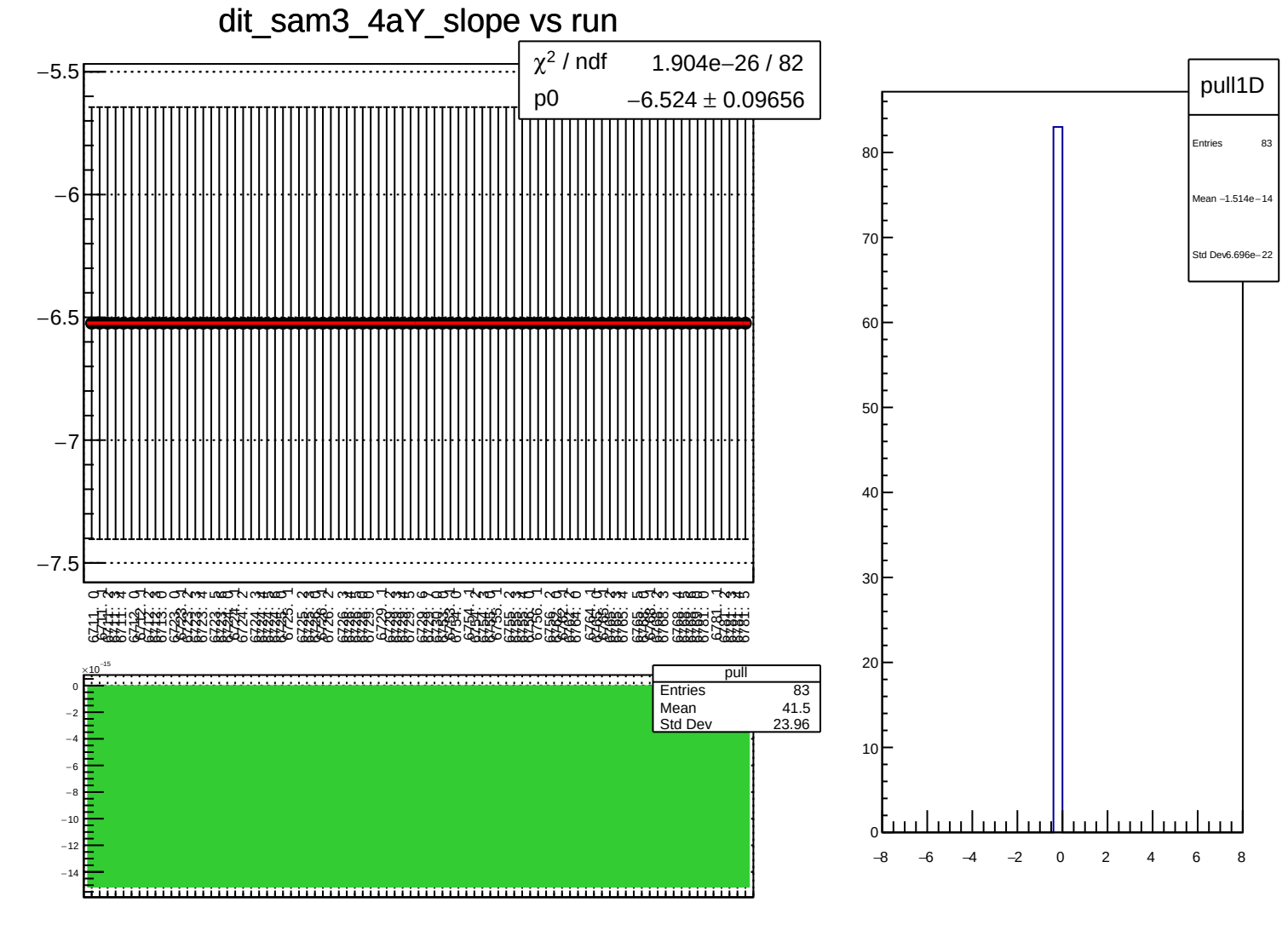

pull1D
Entries 83
Mean −6.718e−16
Std Dev 9.358e−24

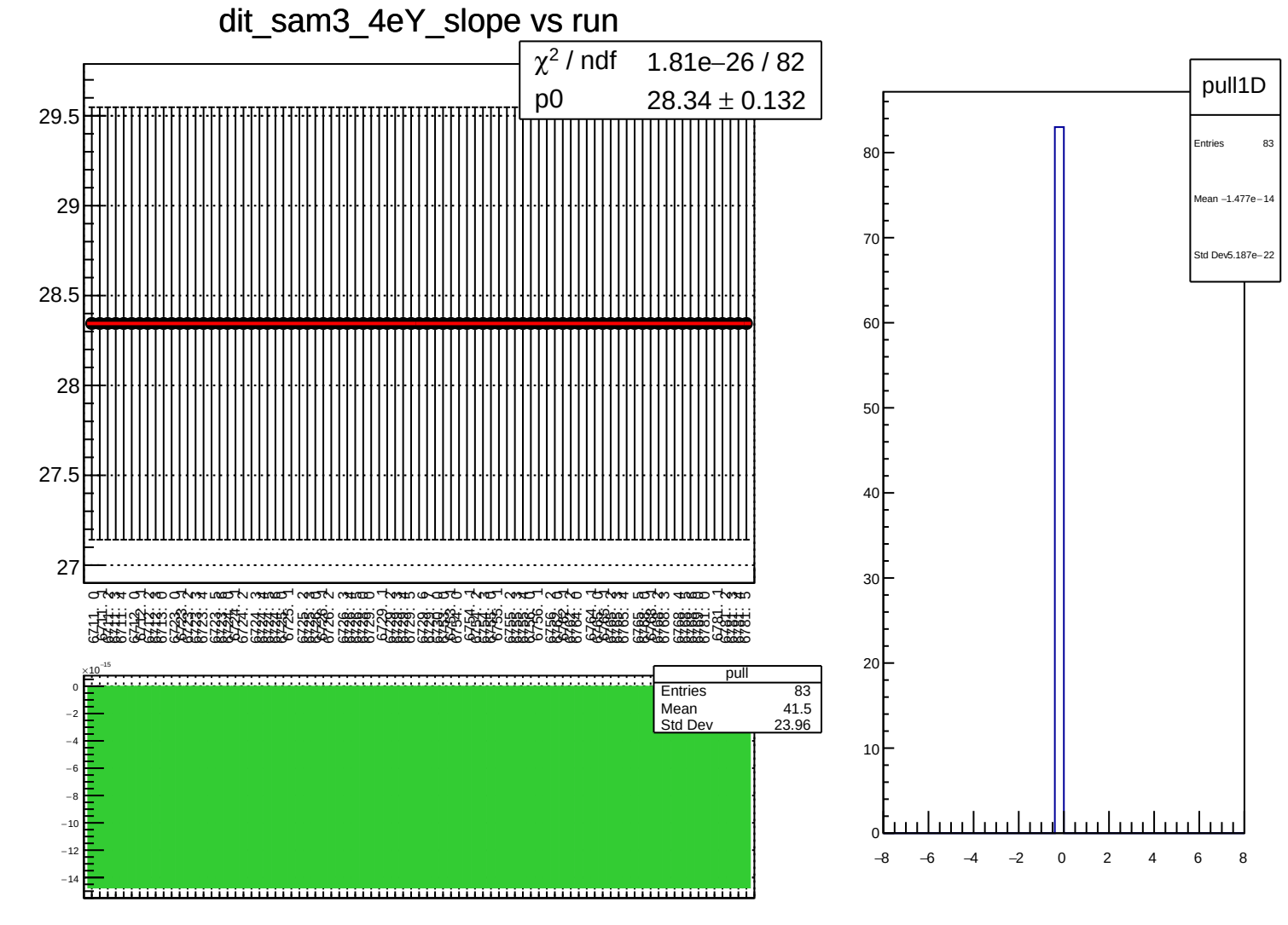

dit_sam3_4eX_slope vs run
χ² / ndf 3.1e−27 / 82
p0 −69.3 ± 1.531
−55
−60
−65
−70
−75
−80
−85
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
6
5
4
3
2
1
0

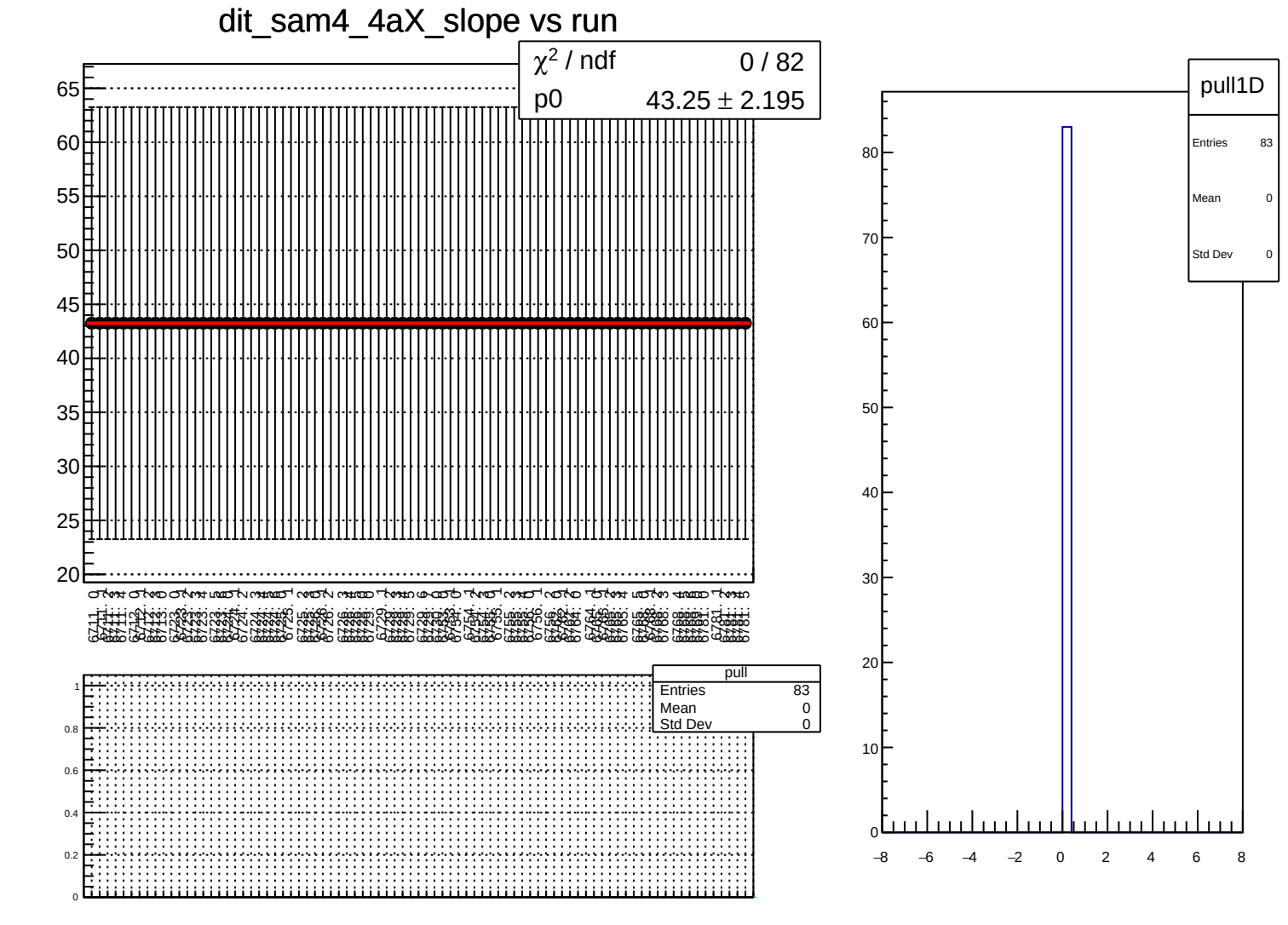

pull1D
Entries 83
Mean 6.111e−15
Std Dev4.492e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

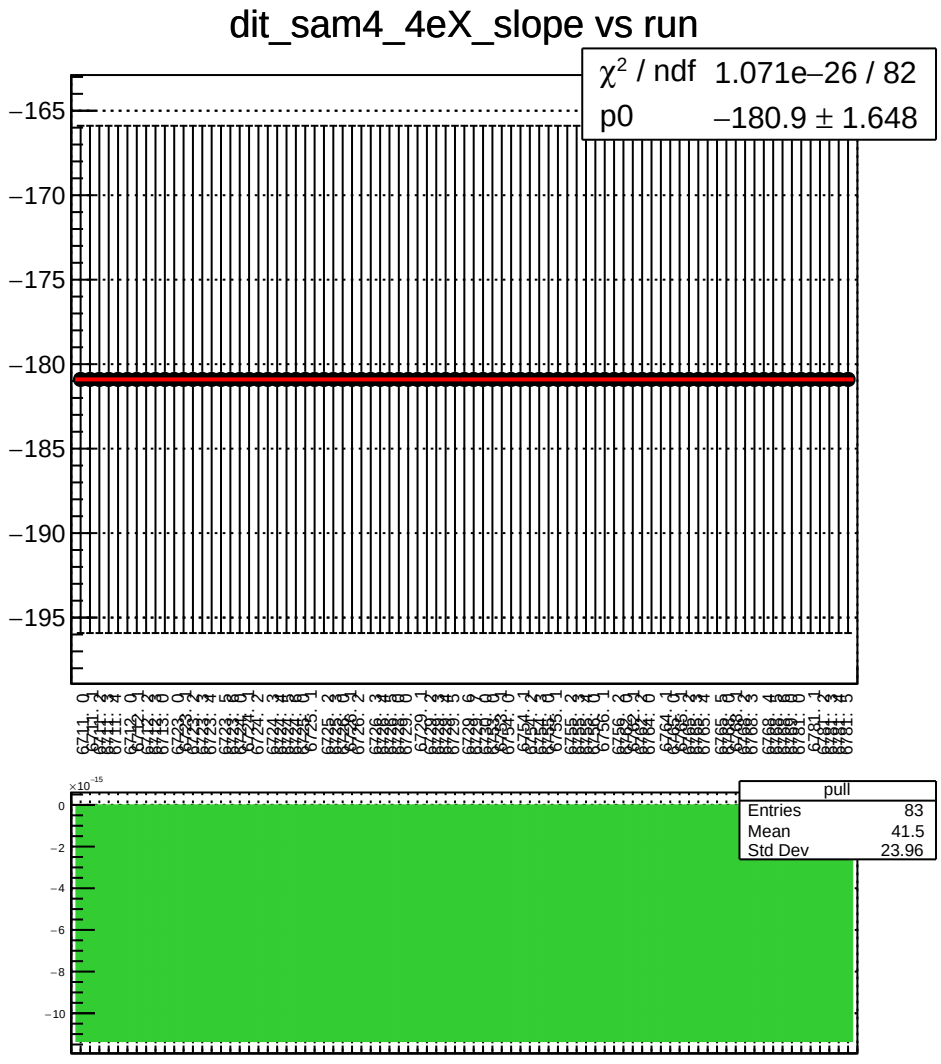

dit_sam3_11X12X_slope vs run
χ² / ndf 8.206e−29 / 82
p0 0.5028 ± 0.03677
pull
Entries 83
Mean 41.5
Std Dev 23.96

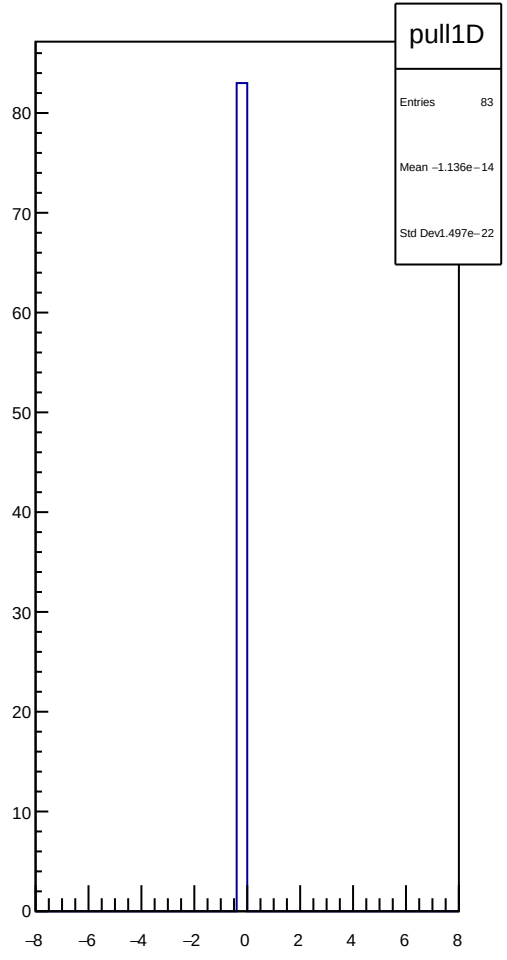

pull1D
Entries 83
Mean 9.943e−16
Std Dev 2.292e−23

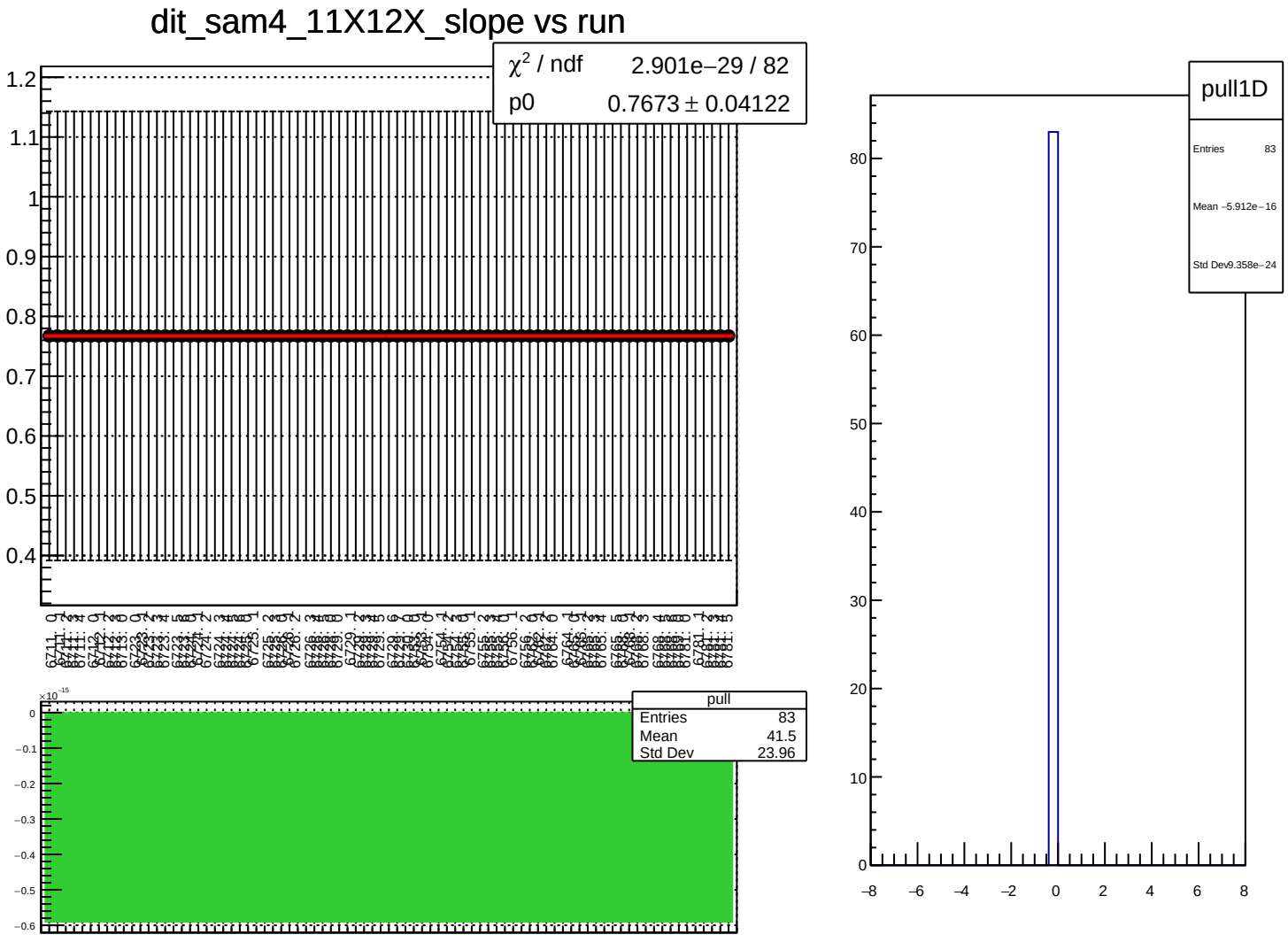

dit_sam3_4aY_slope vs run
χ² / ndf 1.904e−26 / 82
p0 −6.524 ± 0.09656
−5.5
−6
−6.5
−7
−7.5
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
pull1D
Entries 83
Mean −1.514e−14
Std Dev 6.696e−22

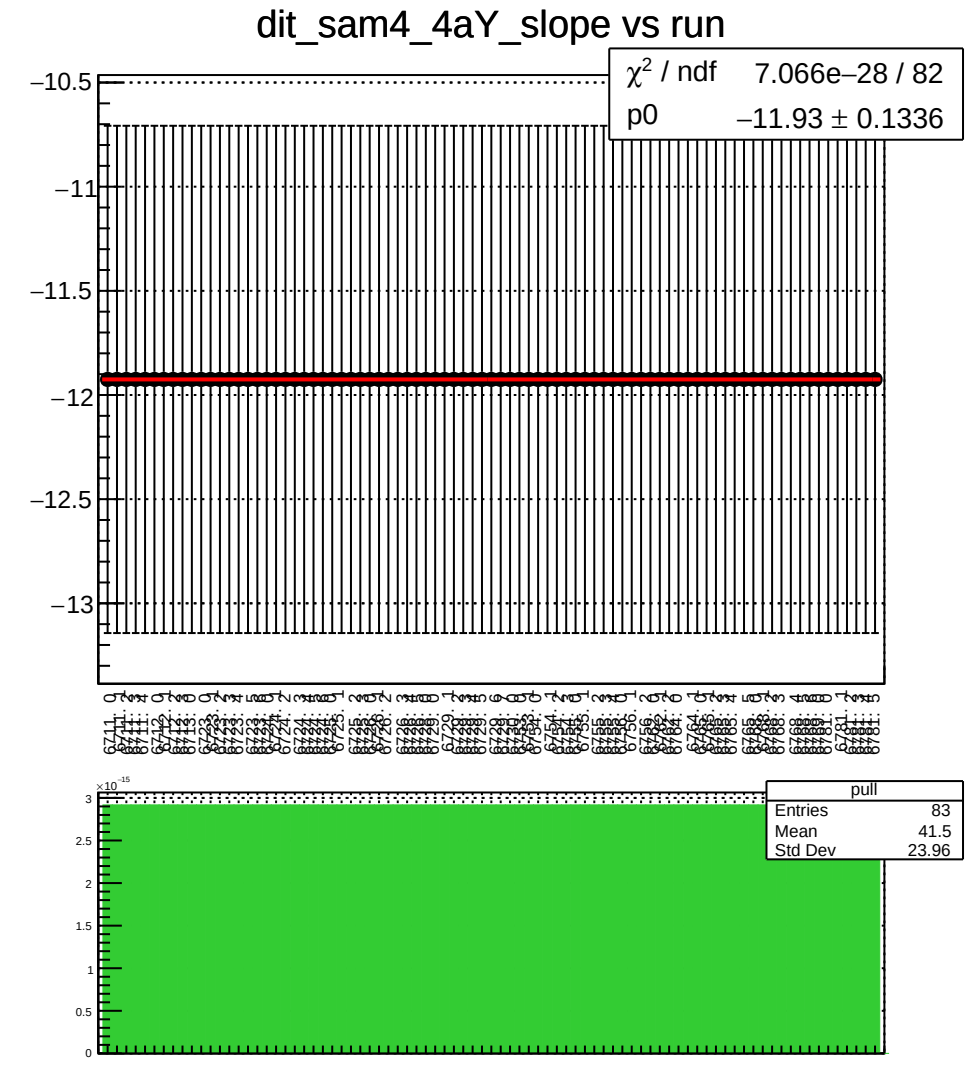

dit_sam3_4eY_slope vs run
χ² / ndf 1.81e−26 / 82
p0 28.34 ± 0.132
29.5
29
28.5
28
27.5
27
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 83
Mean −1.477e−14
Std Dev5.187e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

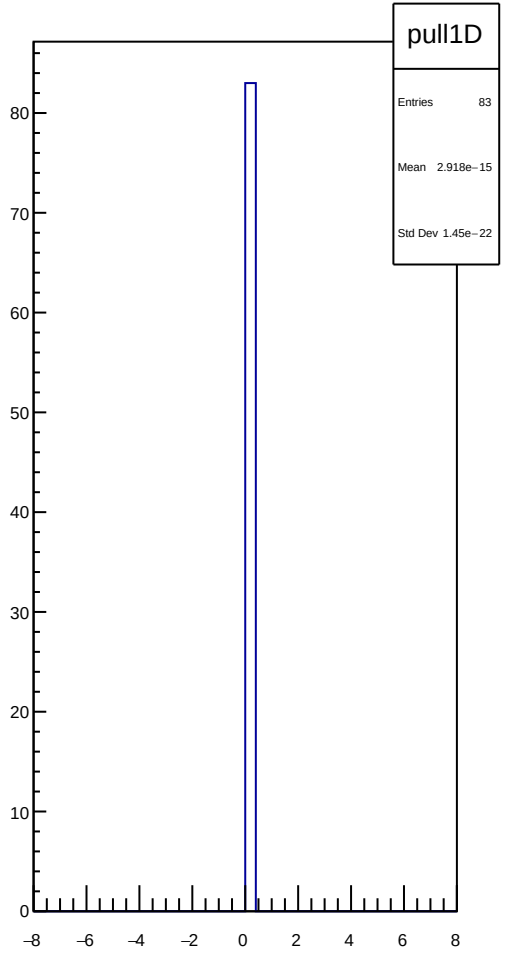

dit_sam4_4aX_slope vs run
χ² / ndf 0 / 82
p0 43.25 ± 2.195
pull
Entries 83
Mean 0
Std Dev 0
pull1D
Entries 83
Mean 0
Std Dev 0

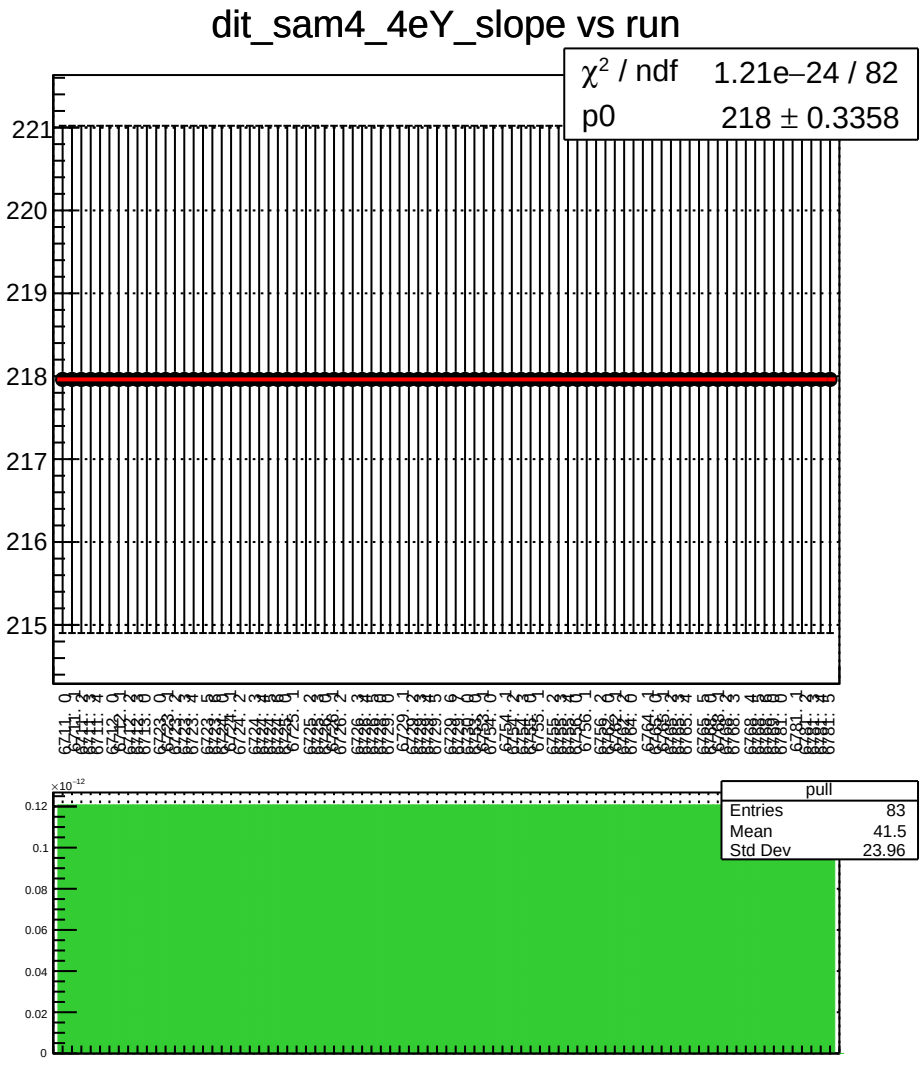

dit_sam4_4eX_slope vs run
χ^2 / ndf 1.071e−26 / 82
p0 −180.9 ± 1.648
−165
−170
−175
−180
−185
−190
−195
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
0
−2
−4
−6
−8
−10

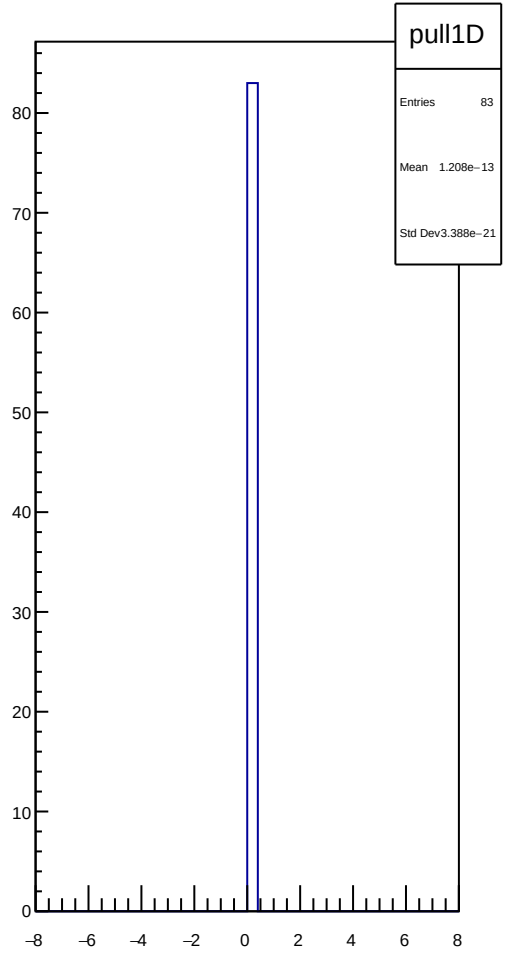

pull1D
Entries 83
Mean −1.136e−14
Std Dev1.497e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

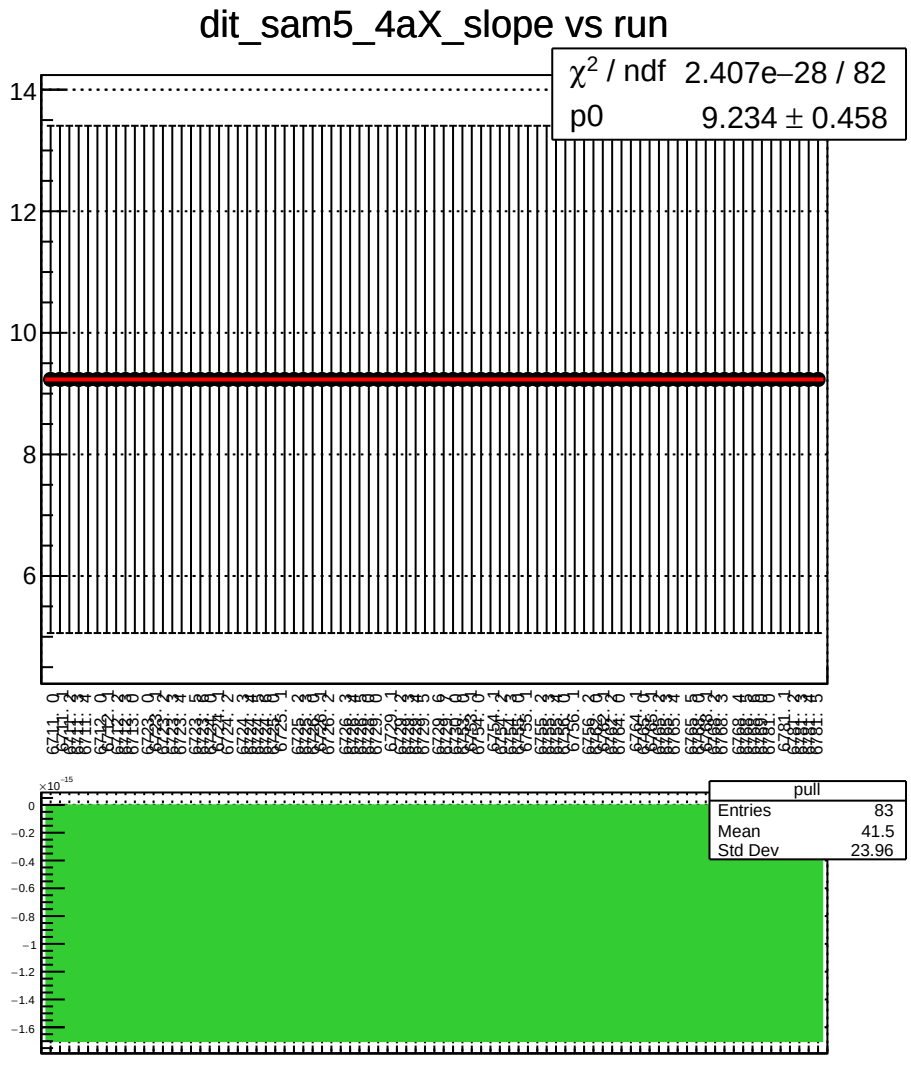

dit_sam4_11X12X_slope vs run
χ² / ndf 2.901e−29 / 82
p0 0.7673 ± 0.04122
pull
Entries 83
Mean 41.5
Std Dev 23.96
pull1D
Entries 83
Mean −5.912e−16
Std Dev 9.358e−24

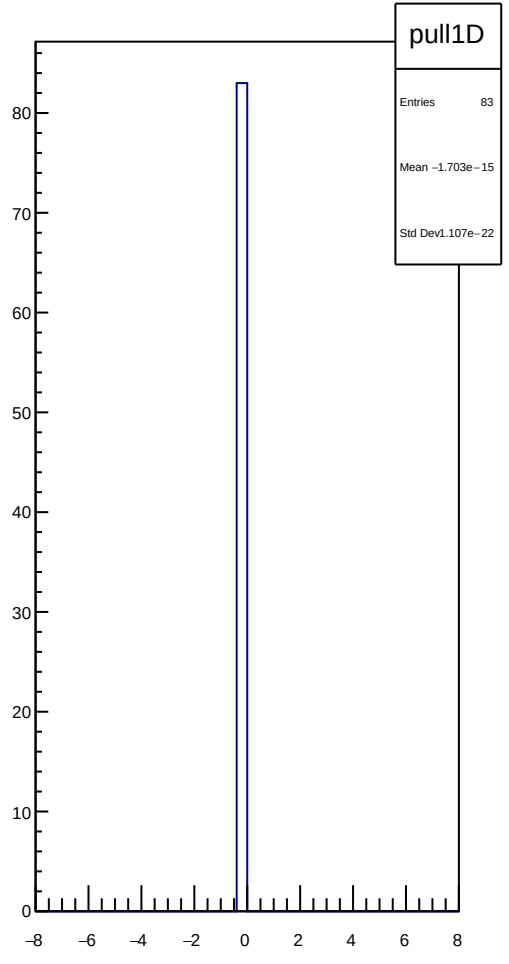

dit_sam4_4aY_slope vs run
χ² / ndf 7.066e−28 / 82
p0 −11.93 ± 0.1336
−10.5
−11
−11.5
−12
−12.5
−13
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0

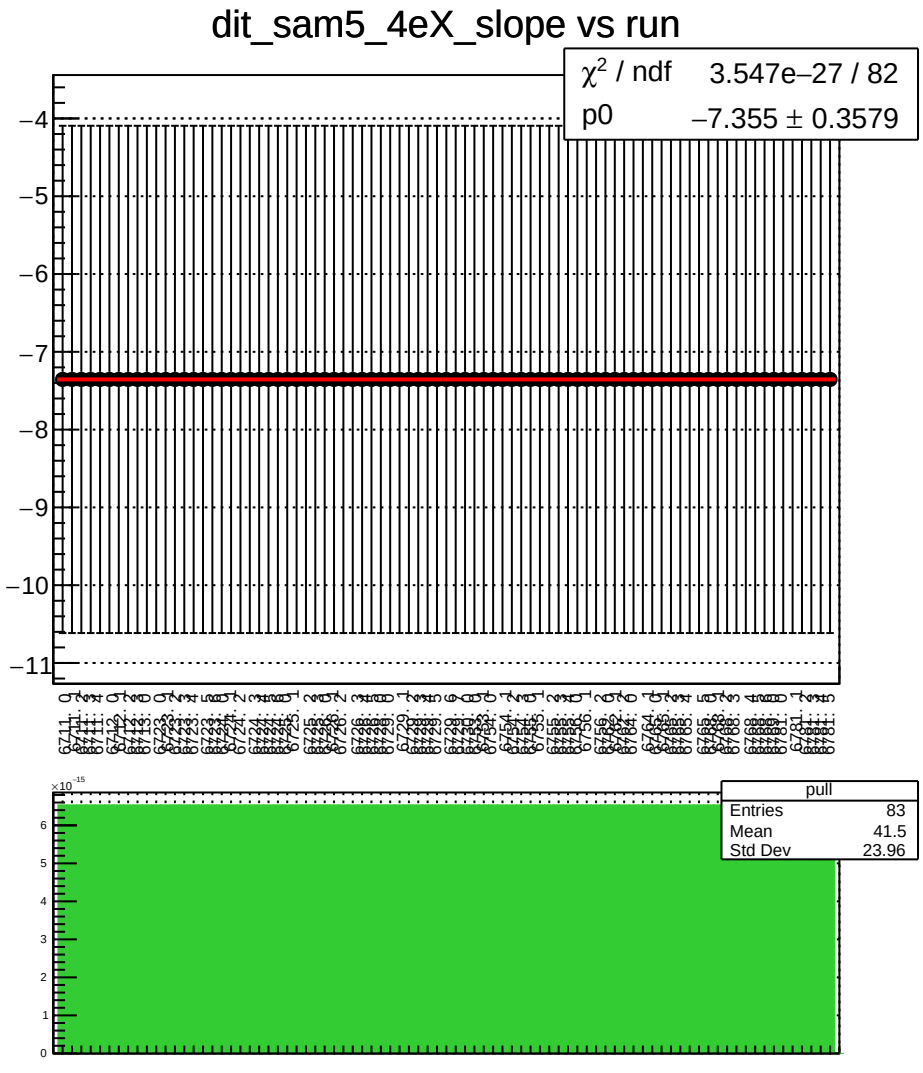

pull1D
Entries 83
Mean 2.918e−15
Std Dev 1.45e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

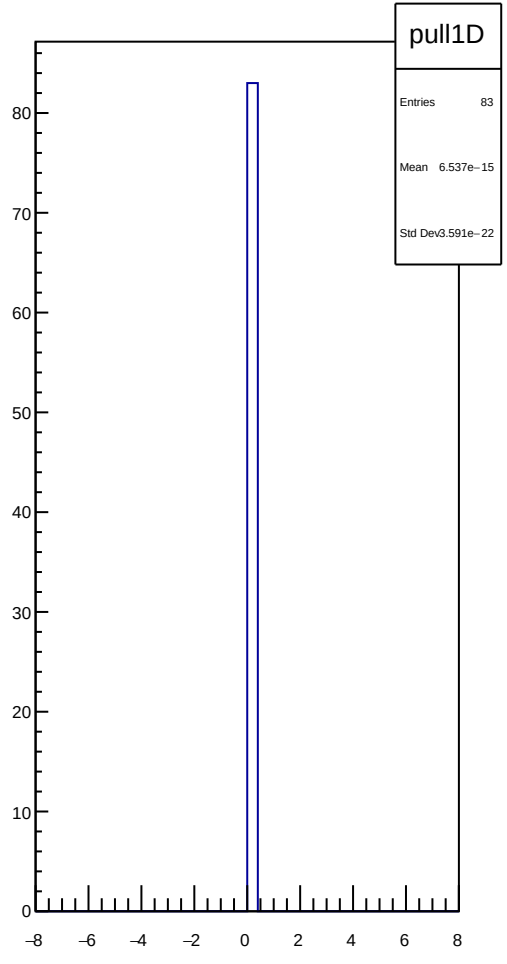

dit_sam4_4eY_slope vs run
χ² / ndf 1.21e−24 / 82
p0 218 ± 0.3358
221
220
219
218
217
216
215
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹²
0.12
0.1
0.08
0.06
0.04
0.02
0

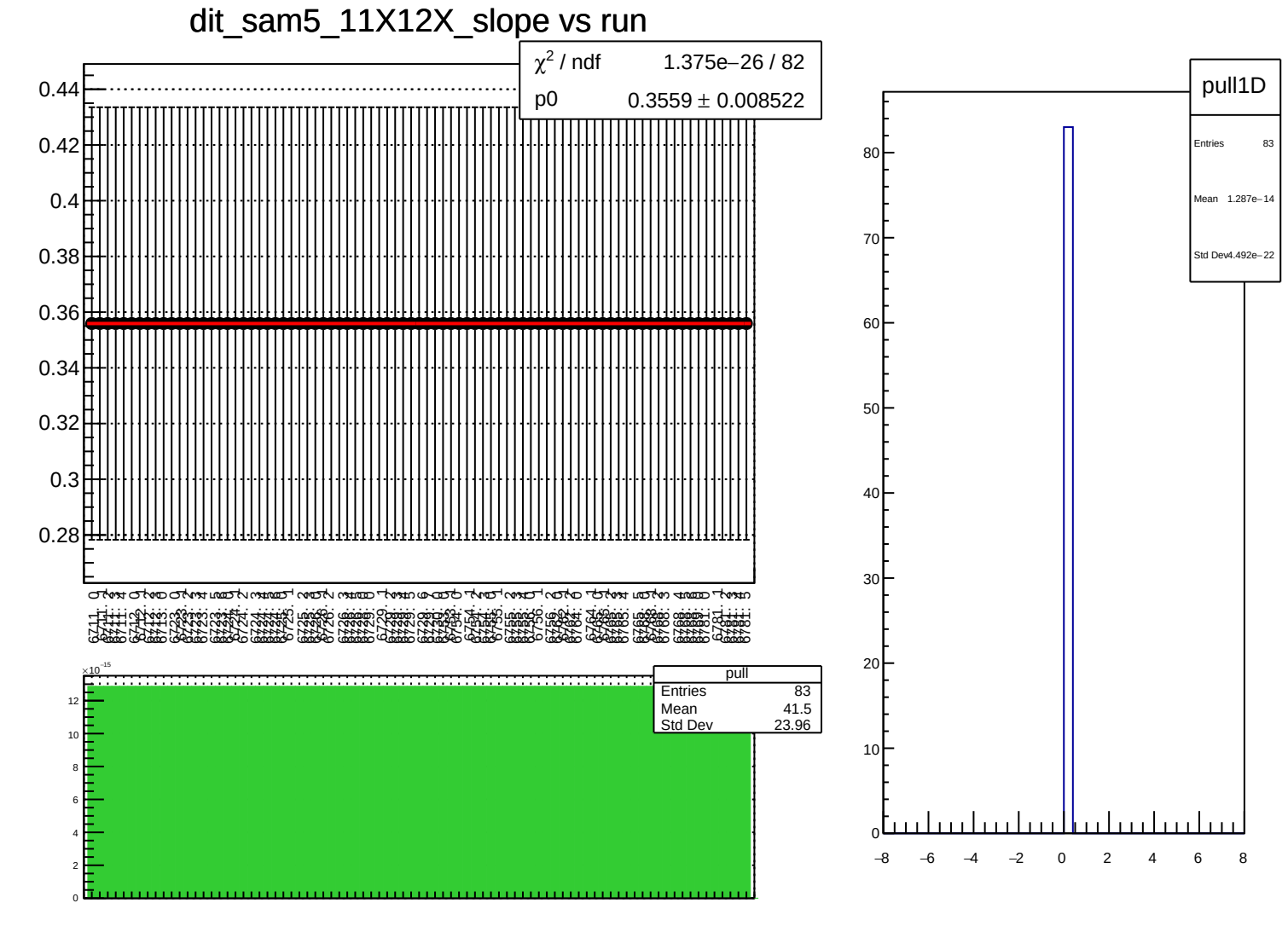

pull1D
Entries 83
Mean 1.208e−13
Std Dev3.388e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

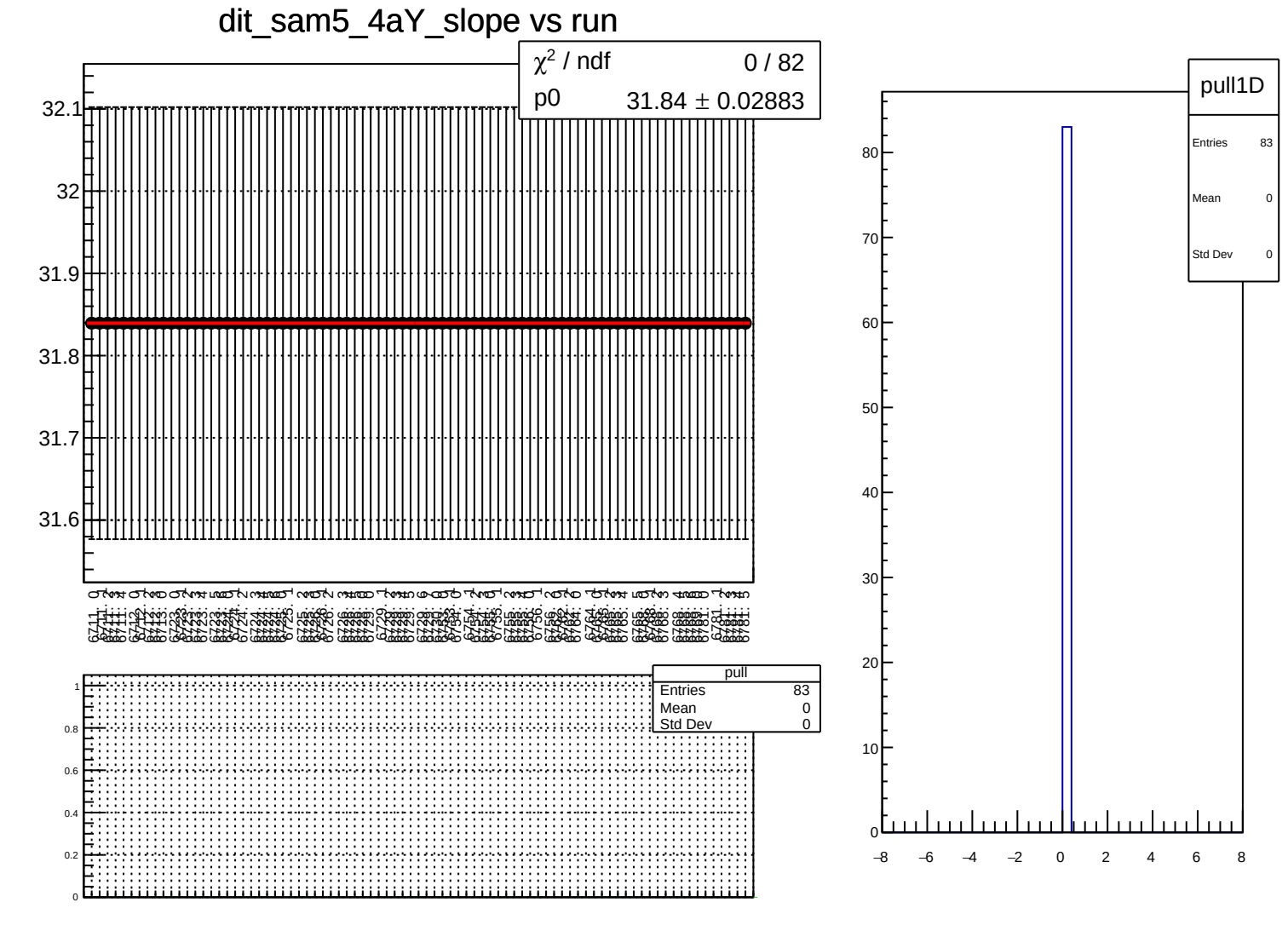

dit_sam5_4aX_slope vs run
χ^2 / ndf 2.407e−28 / 82
p0 9.234 ± 0.458
pull
Entries 83
Mean 41.5
Std Dev 23.96

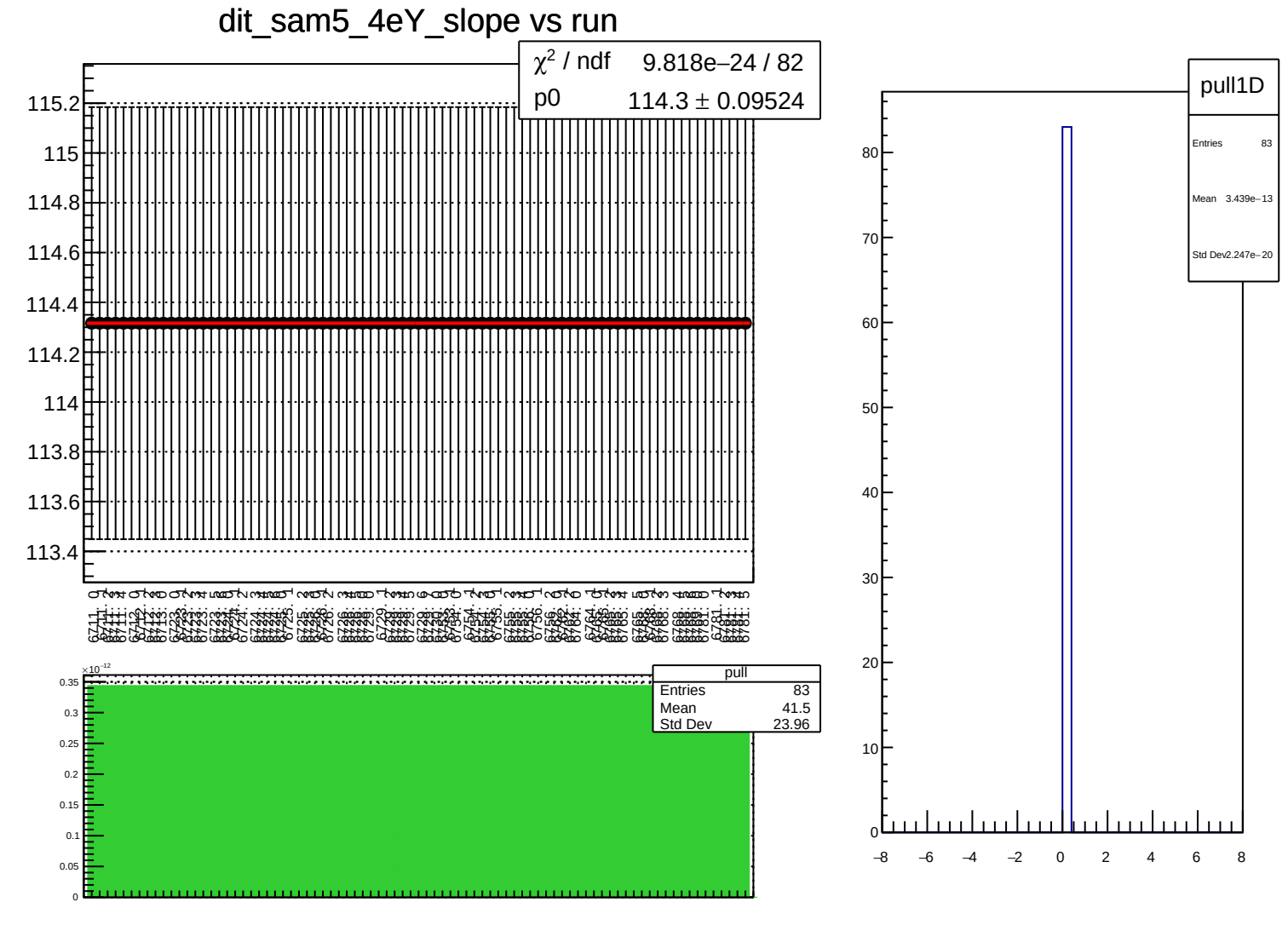

pull1D
Entries 83
Mean −1.703e−15
Std Dev1.107e−22

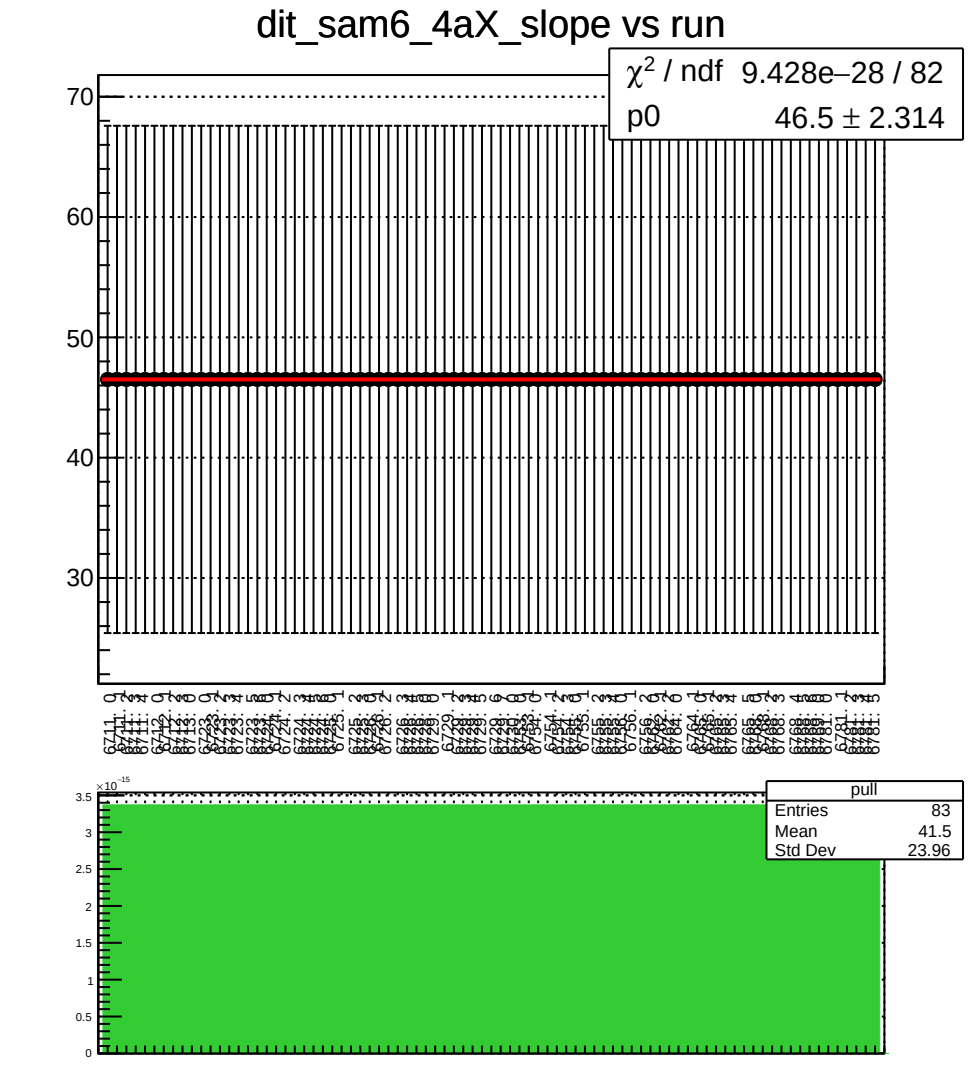

dit_sam5_4eX_slope vs run
χ² / ndf 3.547e−27 / 82
p0 −7.355 ± 0.3579
pull
Entries 83
Mean 41.5
Std Dev 23.96

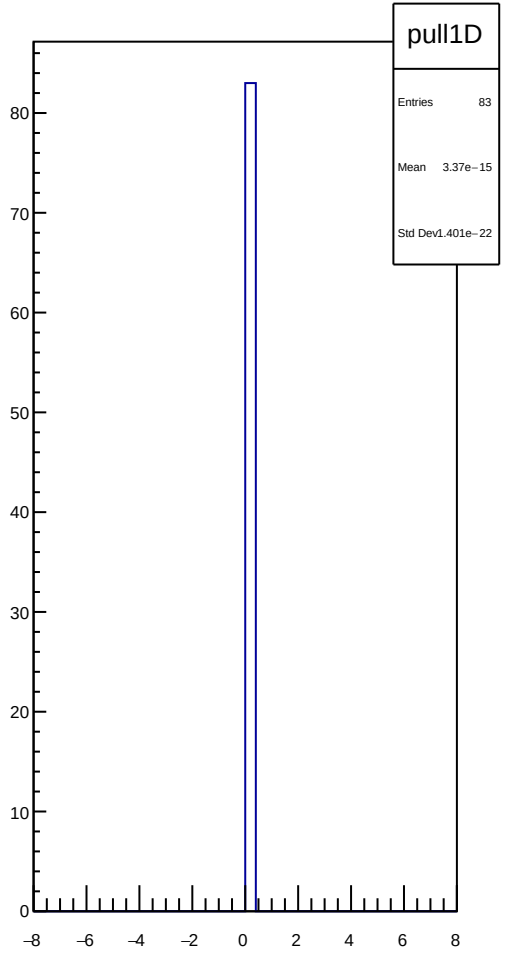

pull1D
Entries 83
Mean 6.537e−15
Std Dev 3.591e−22

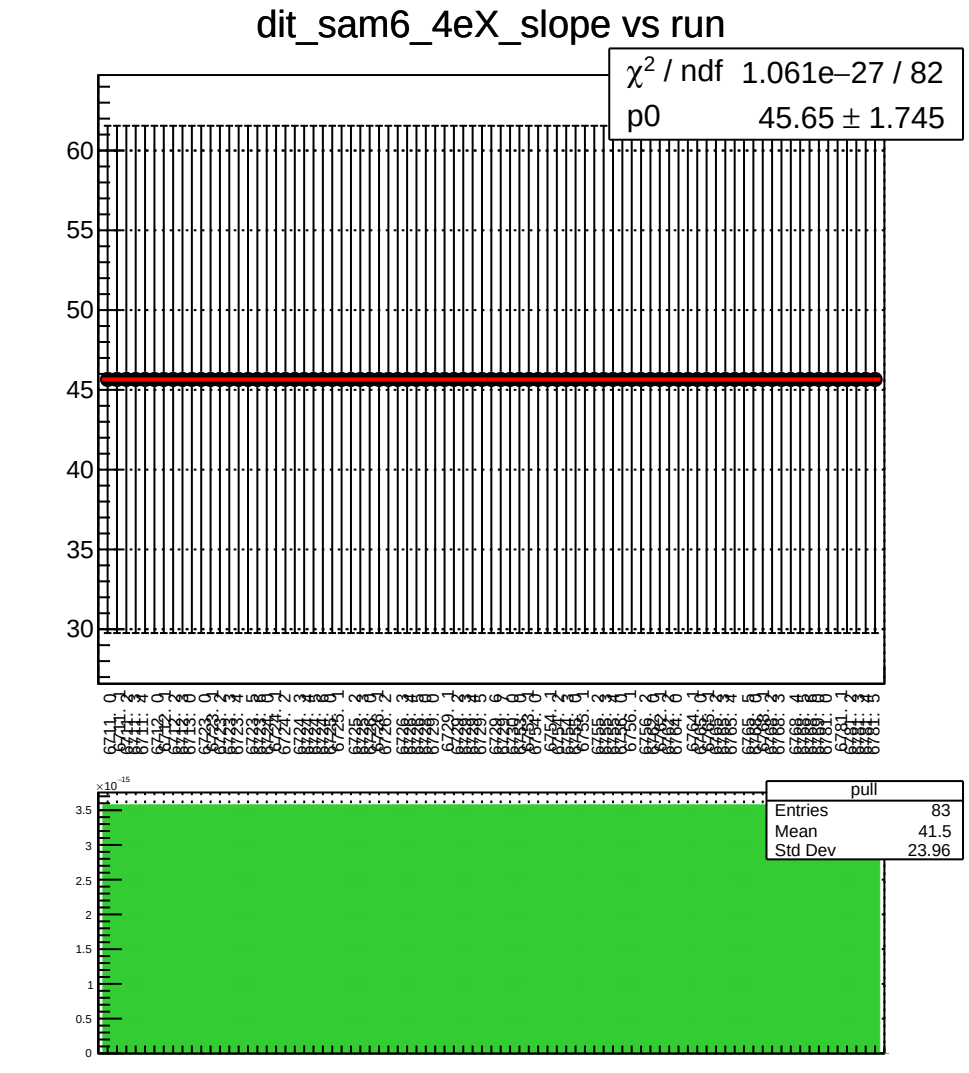

dit_sam5_11X12X_slope vs run
χ² / ndf 1.375e−26 / 82
p0 0.3559 ± 0.008522
0.44
0.42
0.4
0.38
0.36
0.34
0.32
0.3
0.28
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
12
10
8
6
4
2
0
pull1D
Entries 83
Mean 1.287e−14
Std Dev 4.492e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

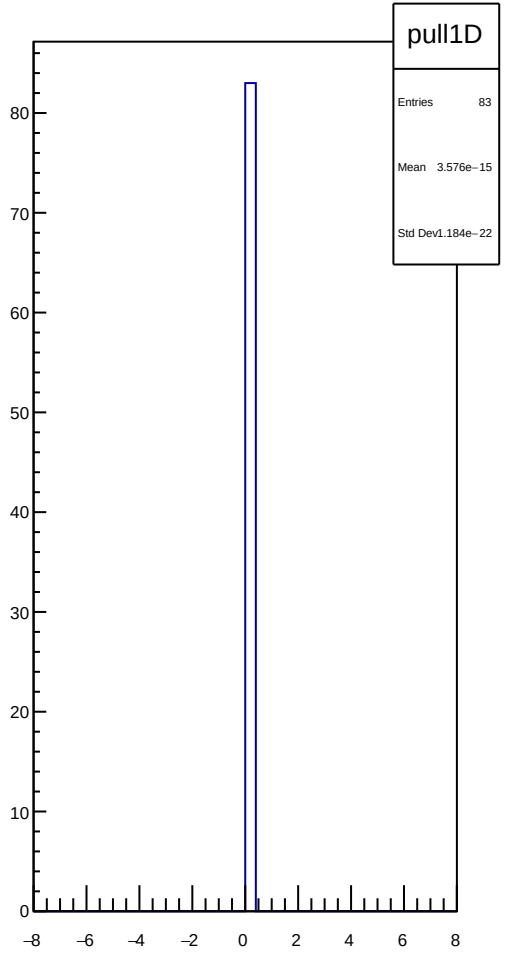

dit_sam5_4aY_slope vs run
χ² / ndf 0 / 82
p0 31.84 ± 0.02883
32.1
32
31.9
31.8
31.7
31.6
pull
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 83
Mean 0
Std Dev 0
80
70
60
50
40
30
20
10
0
–8
–6
–4
–2
0
2
4
6
8

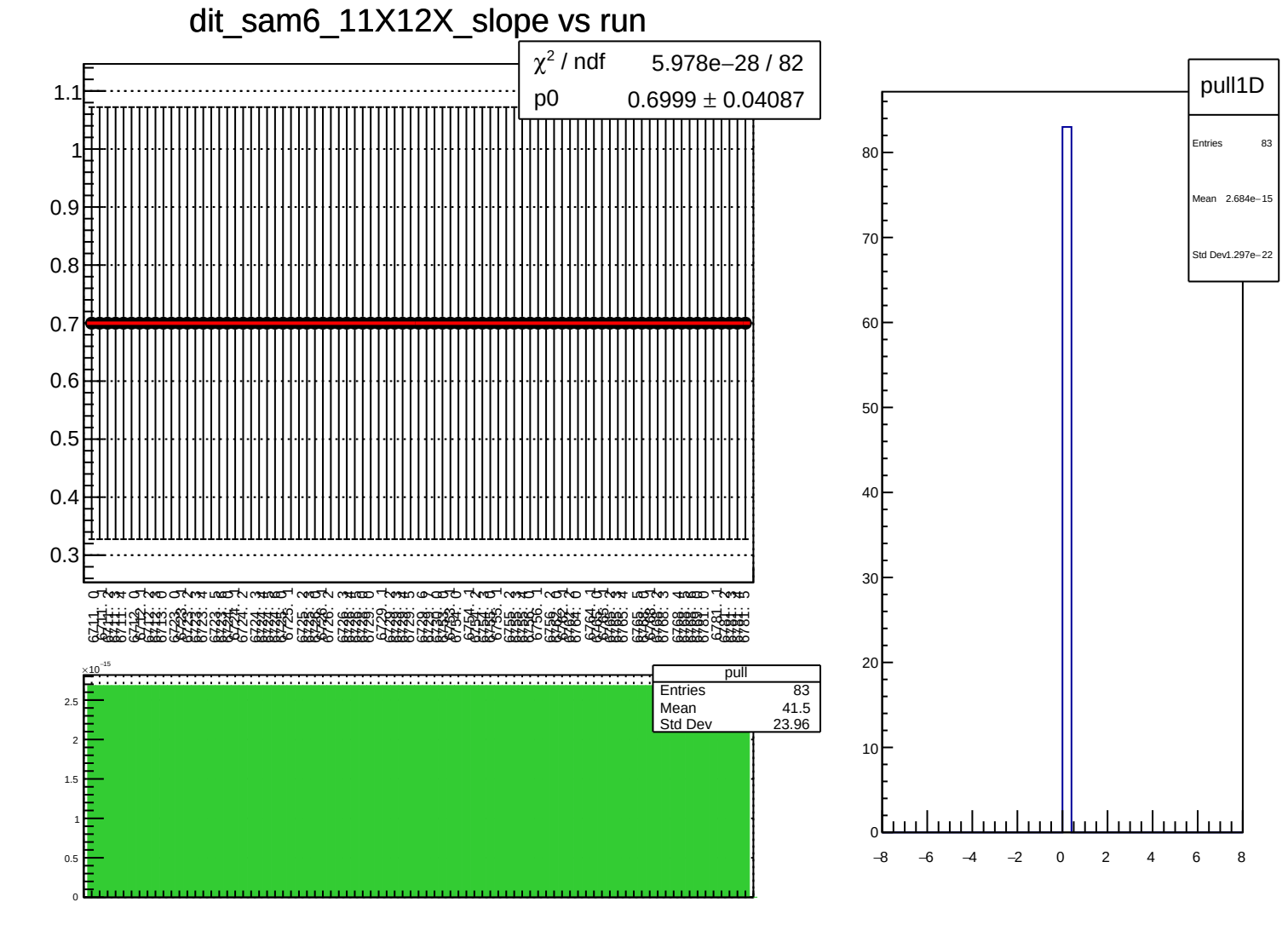

dit_sam5_4eY_slope vs run
χ^2 / ndf 9.818e−24 / 82
p0 114.3 ± 0.09524
pull
Entries 83
Mean 41.5
Std Dev 23.96
pull1D
Entries 83
Mean 3.439e−13
Std Dev2.247e−20

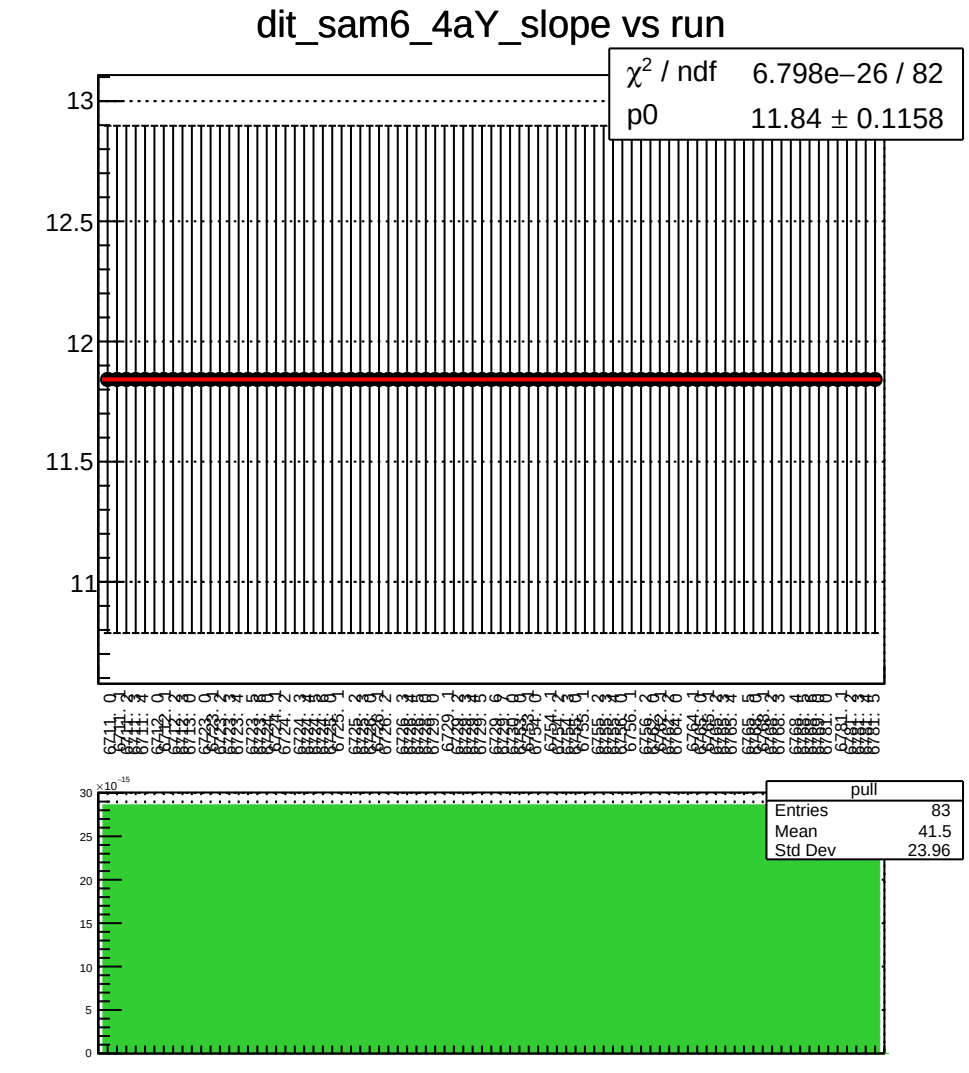

dit_sam6_4aX_slope vs run
χ^2 / ndf 9.428e−28 / 82
p0 46.5 ± 2.314
70
60
50
40
30
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10^-15
3.5
3
2.5
2
1.5
1
0.5
0

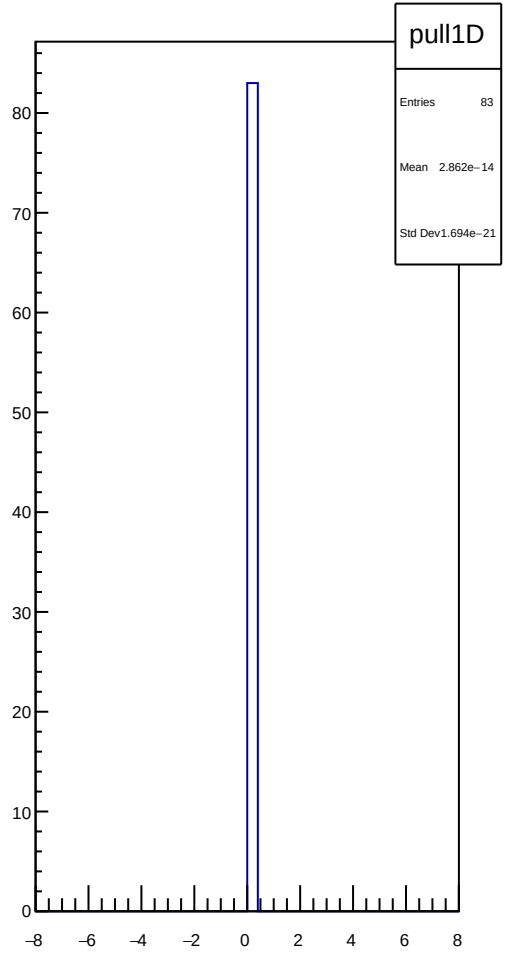

pull1D
Entries 83
Mean 3.37e−15
Std Dev1.401e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

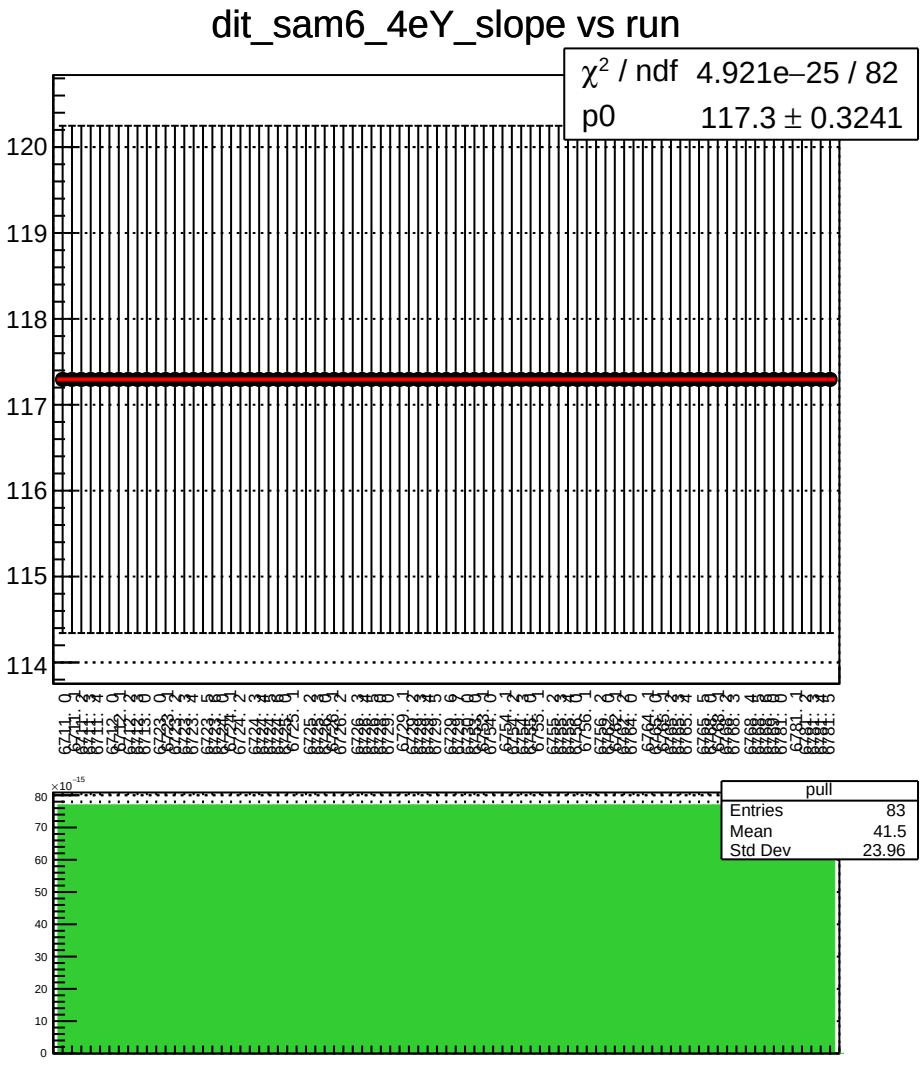

dit_sam6_4eX_slope vs run
χ² / ndf 1.061e−27 / 82
p0 45.65 ± 1.745
pull
Entries 83
Mean 41.5
Std Dev 23.96

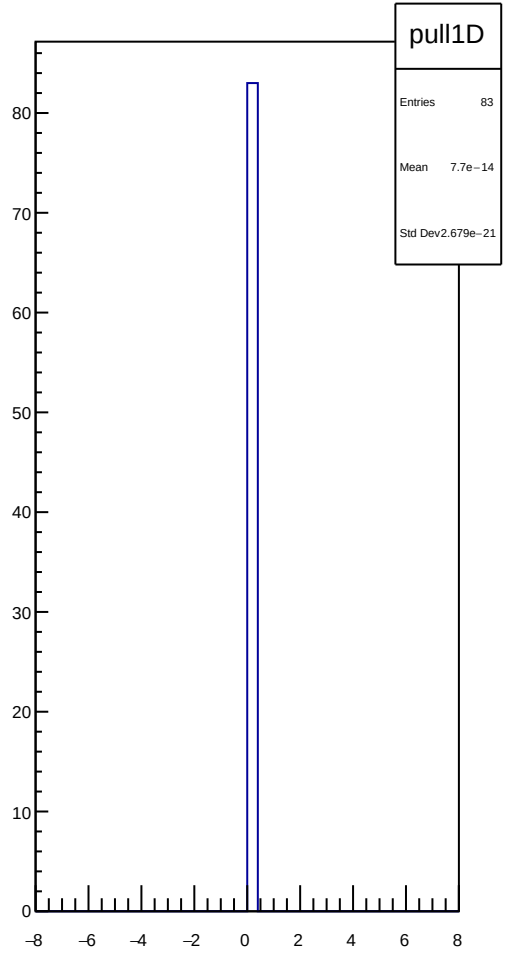

pull1D
Entries 83
Mean 3.576e−15
Std Dev1.184e−22

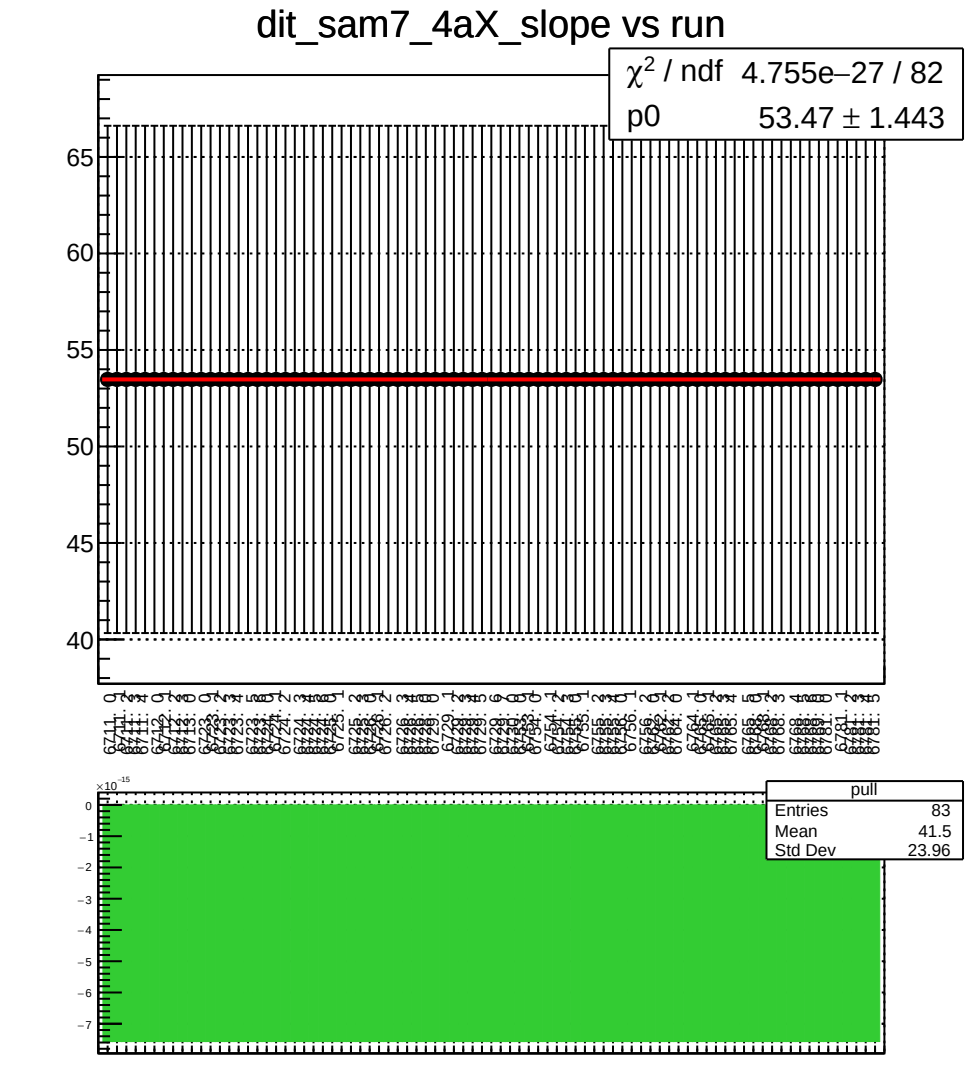

dit_sam6_11X12X_slope vs run
χ² / ndf 5.978e−28 / 82
p0 0.6999 ± 0.04087
pull
Entries 83
Mean 41.5
Std Dev 23.96
pull1D
Entries 83
Mean 2.684e−15
Std Dev1.297e−22

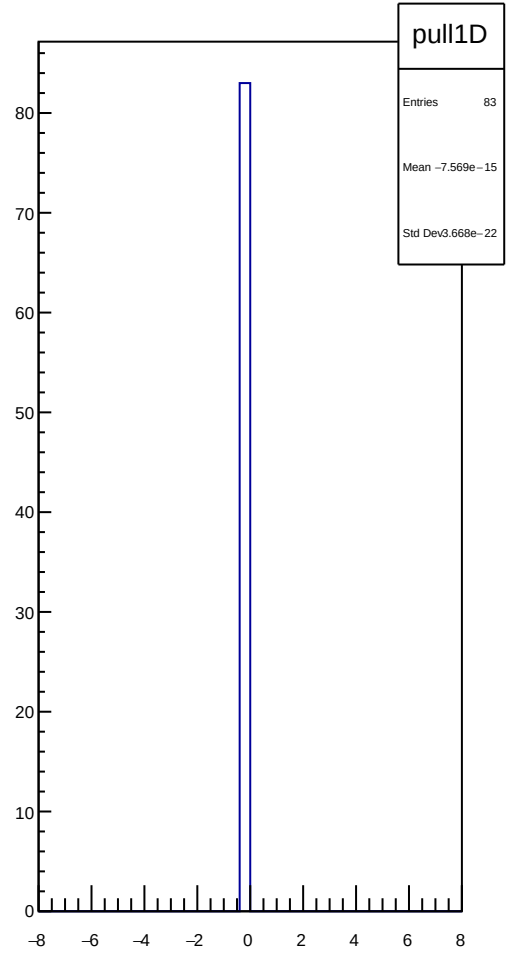

dit_sam6_4aY_slope vs run
χ² / ndf 6.798e−26 / 82
p0 11.84 ± 0.1158
13
12.5
12
11.5
11
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
30
25
20
15
10
5
0

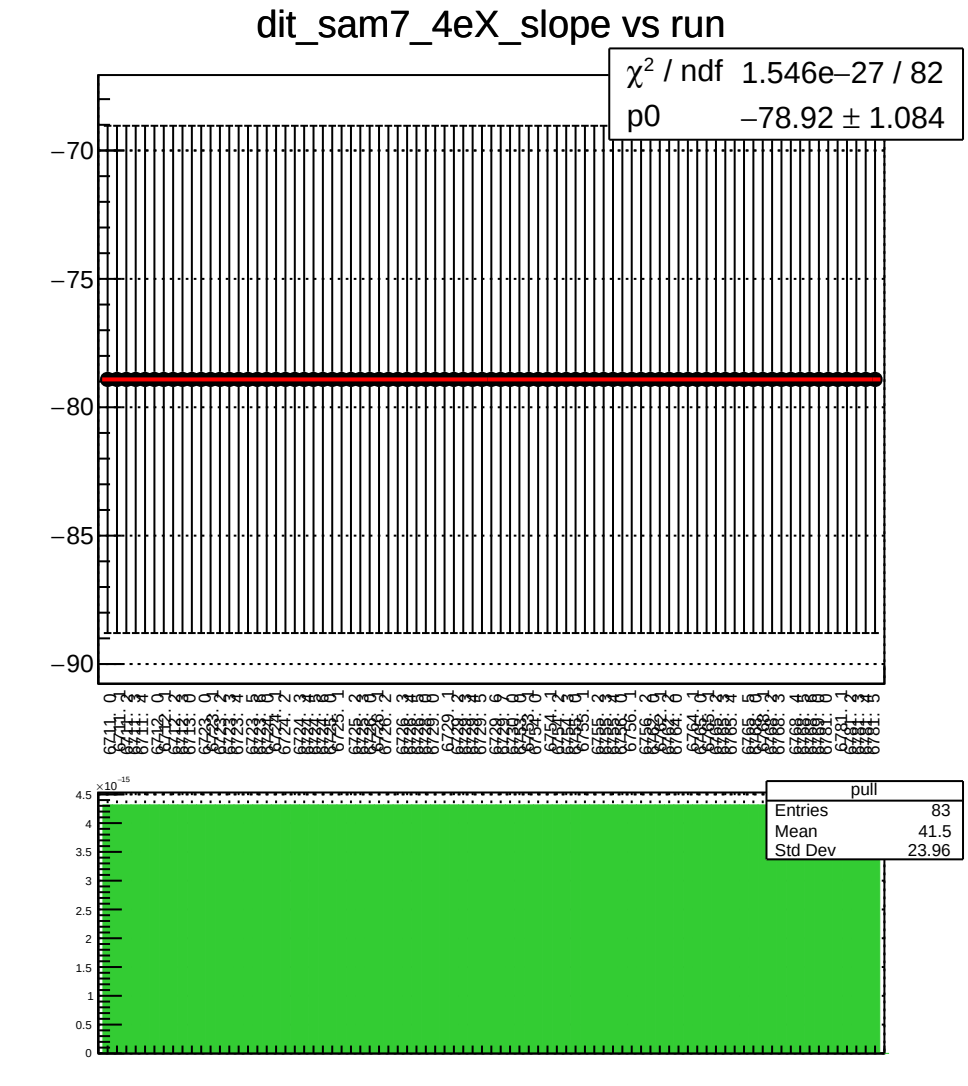

pull1D
Entries 83
Mean 2.862e−14
Std Dev1.694e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

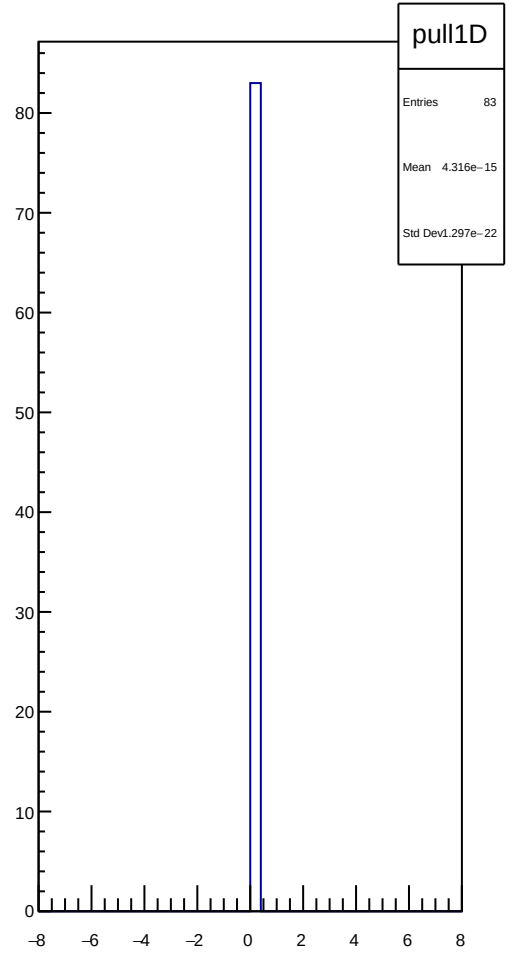

dit_sam6_4eY_slope vs run
χ² / ndf 4.921e−25 / 82
p0 117.3 ± 0.3241
120
119
118
117
116
115
114
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
80
70
60
50
40
30
20
10
0

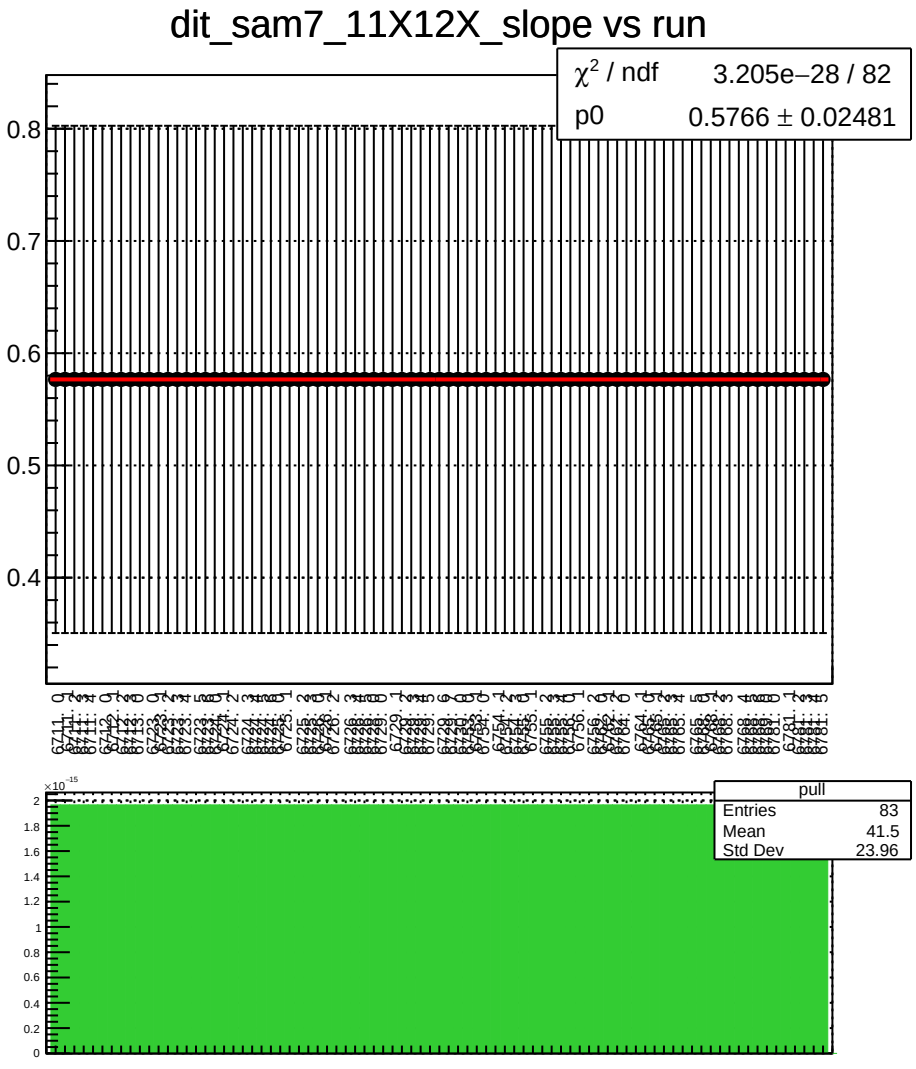

pull1D
Entries 83
Mean 7.7e−14
Std Dev2.679e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

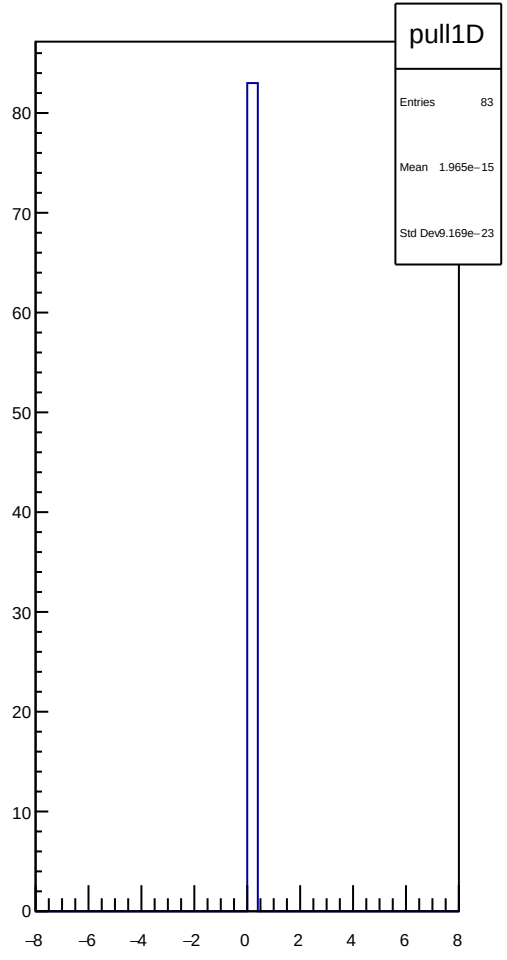

dit_sam7_4aX_slope vs run
χ² / ndf 4.755e−27 / 82
p0 53.47 ± 1.443
65
60
55
50
45
40
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
−7

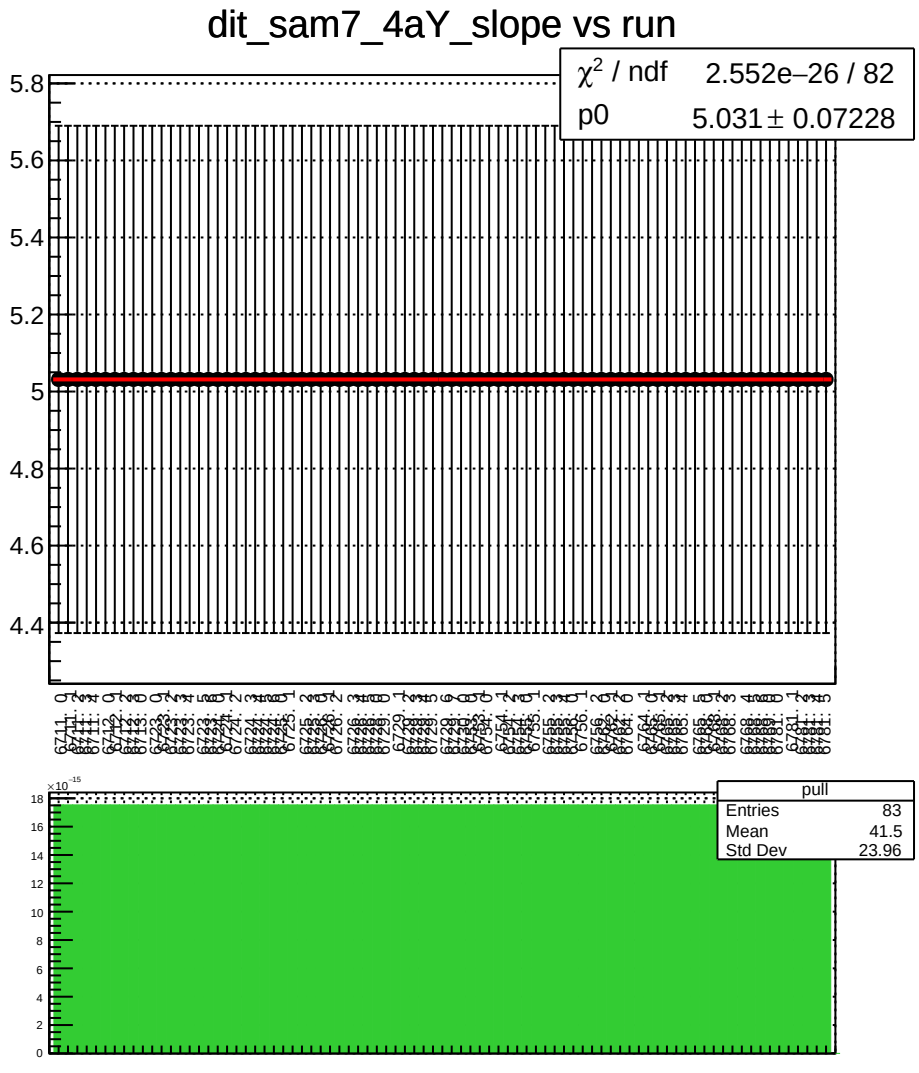

pull1D
Entries 83
Mean −7.569e−15
Std Dev3.668e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

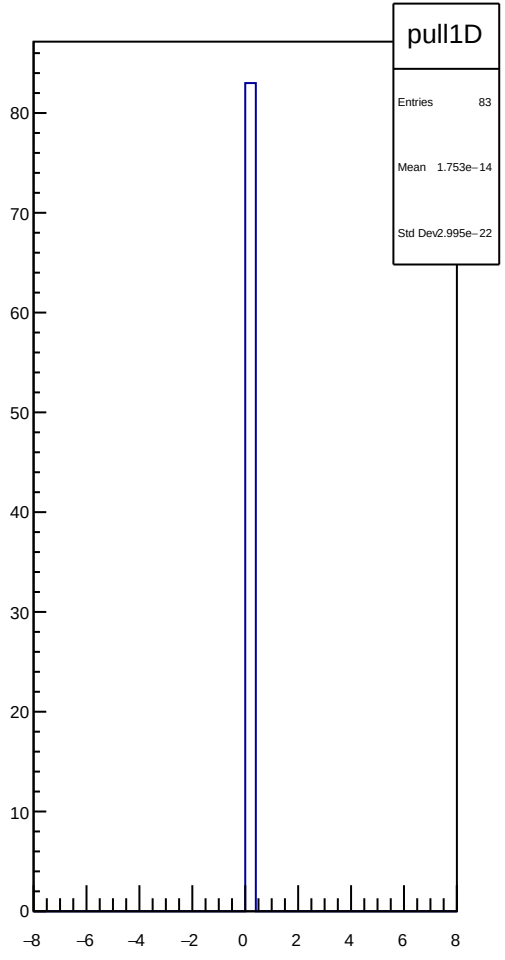

dit_sam7_4eX_slope vs run
χ² / ndf 1.546e−27 / 82
p0 −78.92 ± 1.084
−70
−75
−80
−85
−90
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0

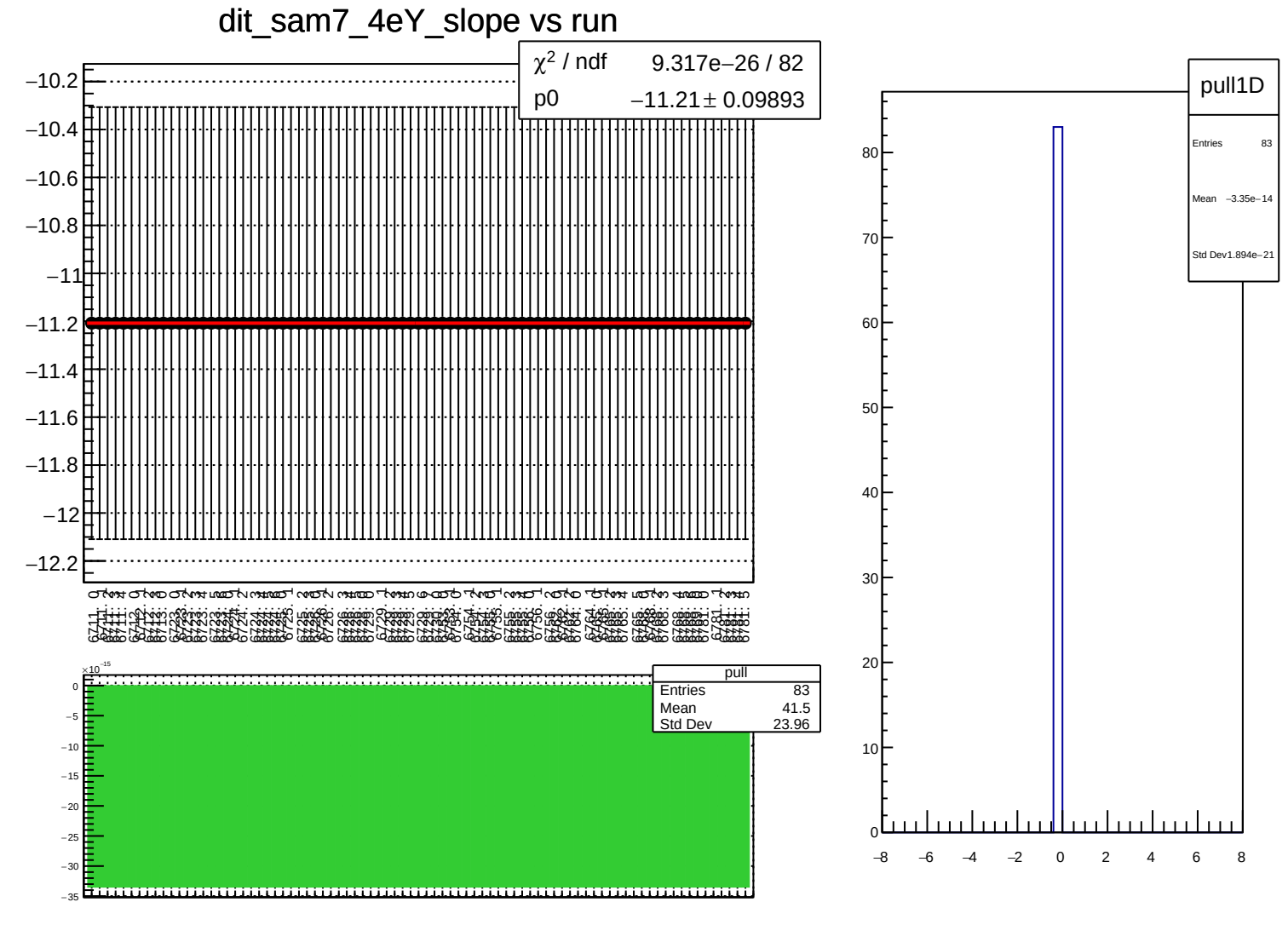

pull1D
Entries 83
Mean 4.316e−15
Std Dev1.297e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

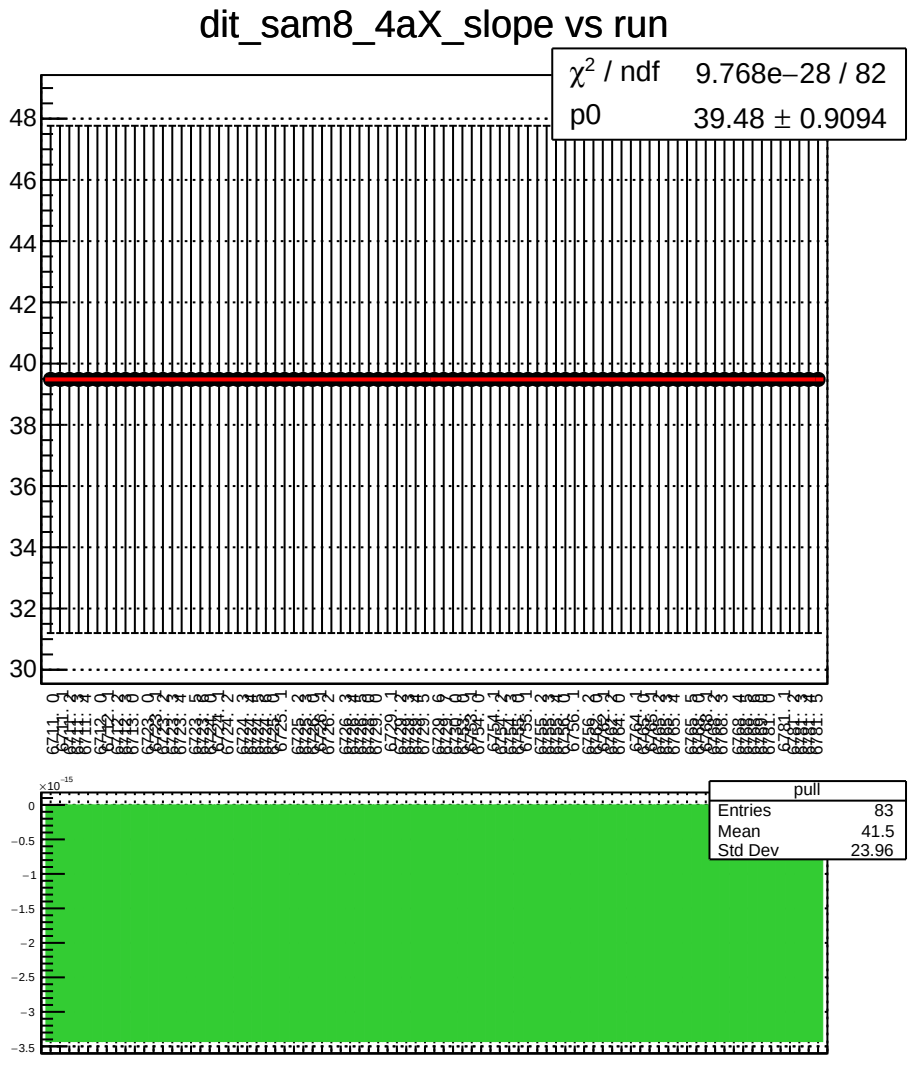

dit_sam7_11X12X_slope vs run
χ² / ndf 3.205e−28 / 82
p0 0.5766 ± 0.02481
pull
Entries 83
Mean 41.5
Std Dev 23.96

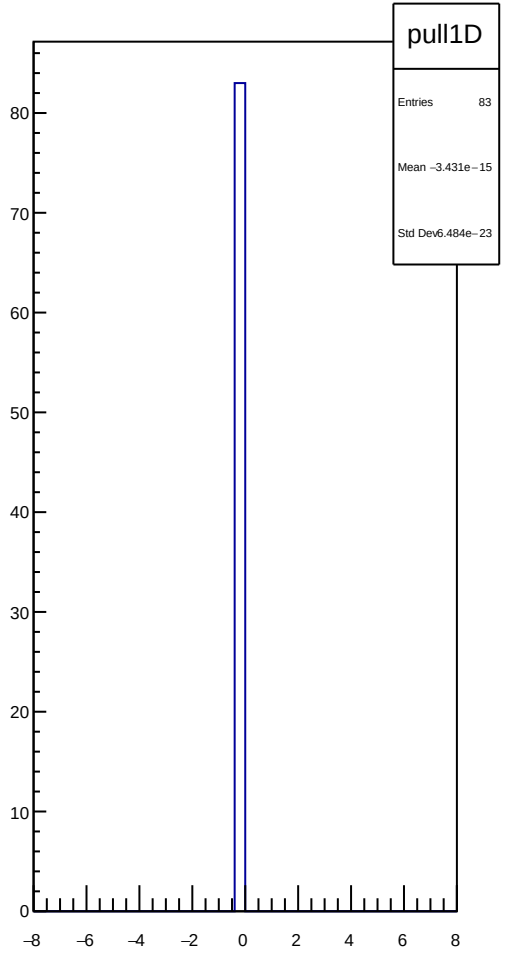

pull1D
Entries 83
Mean 1.965e−15
Std Dev9.169e−23

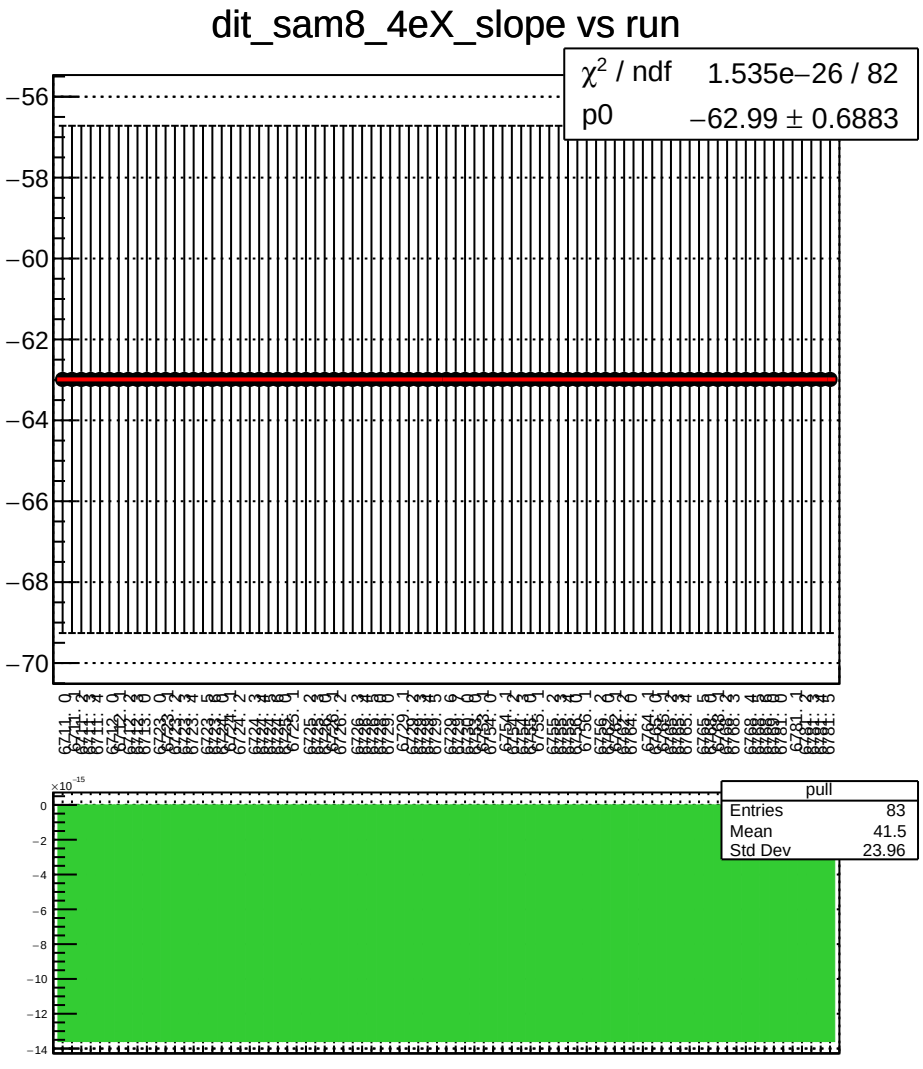

dit_sam7_4aY_slope vs run
χ² / ndf 2.552e−26 / 82
p0 5.031 ± 0.07228
pull
Entries 83
Mean 41.5
Std Dev 23.96

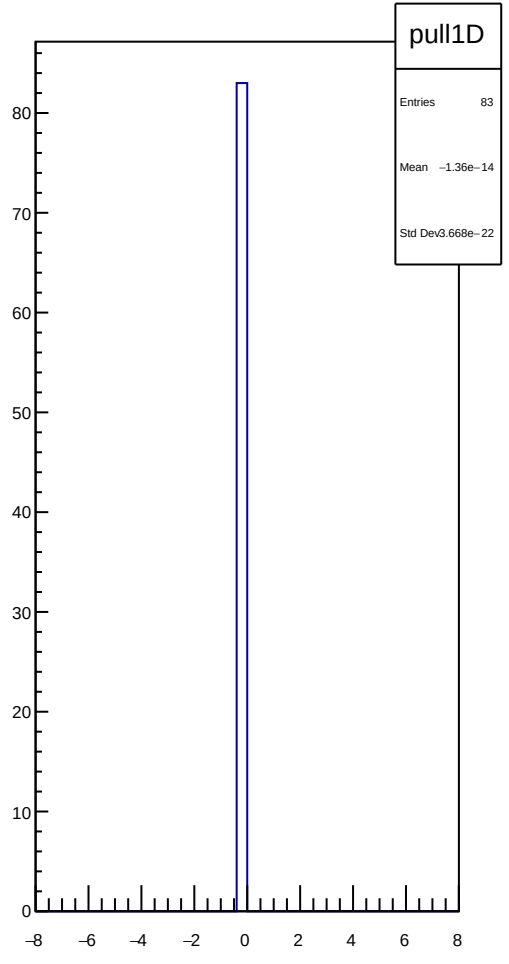

pull1D
Entries 83
Mean 1.753e−14
Std Dev 2.995e−22

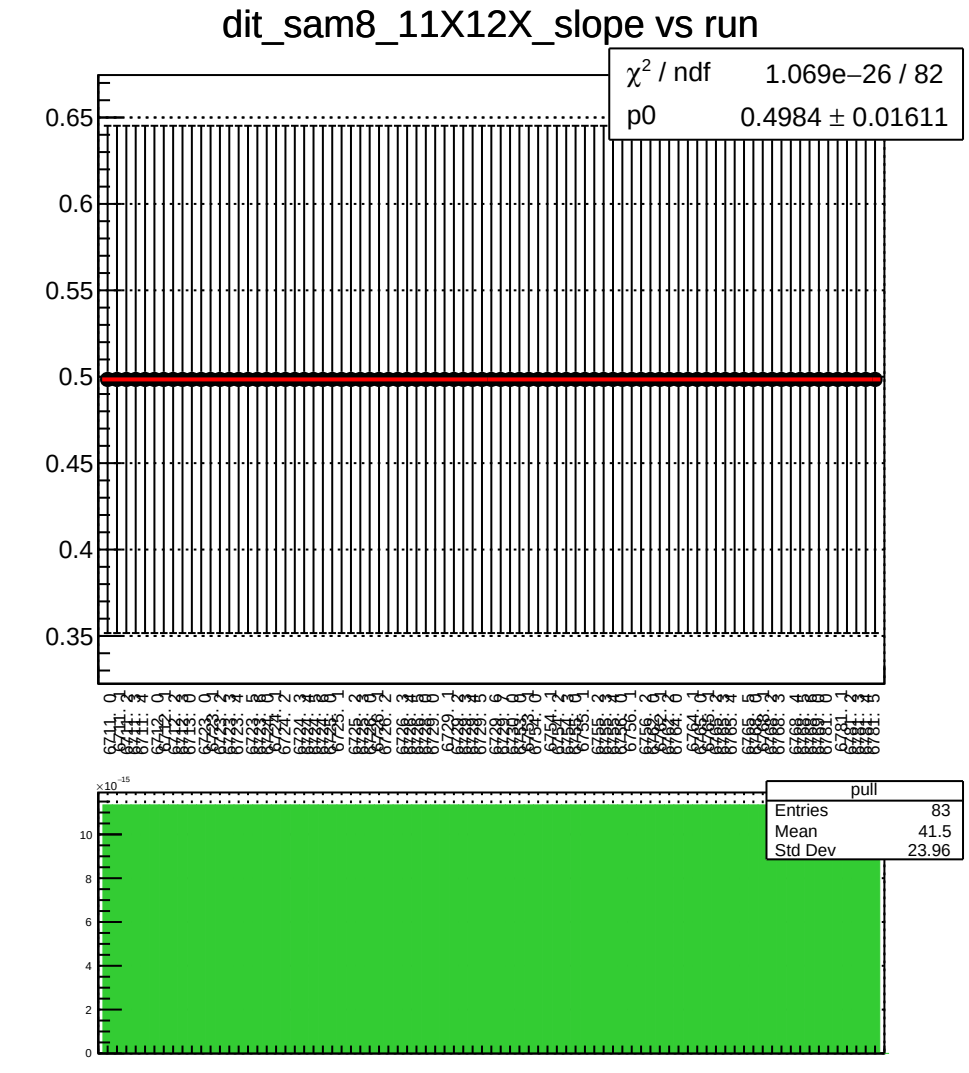

dit_sam7_4eY_slope vs run
χ² / ndf 9.317e−26 / 82
p0 −11.21 ± 0.09893
−10.2
−10.4
−10.6
−10.8
−11
−11.2
−11.4
−11.6
−11.8
−12
−12.2
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
pull1D
Entries 83
Mean −3.35e−14
Std Dev1.894e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

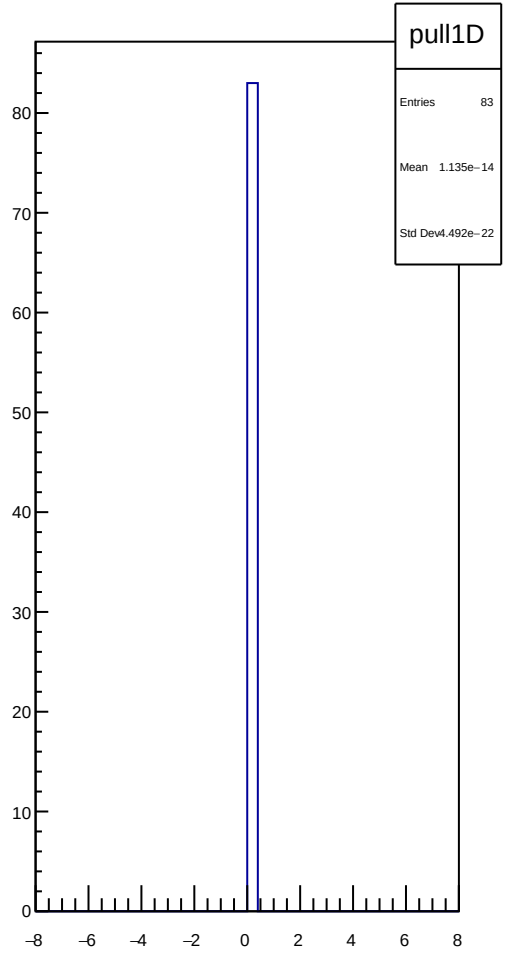

dit_sam8_4aX_slope vs run
χ² / ndf 9.768e−28 / 82
p0 39.48 ± 0.9094
pull
Entries 83
Mean 41.5
Std Dev 23.96

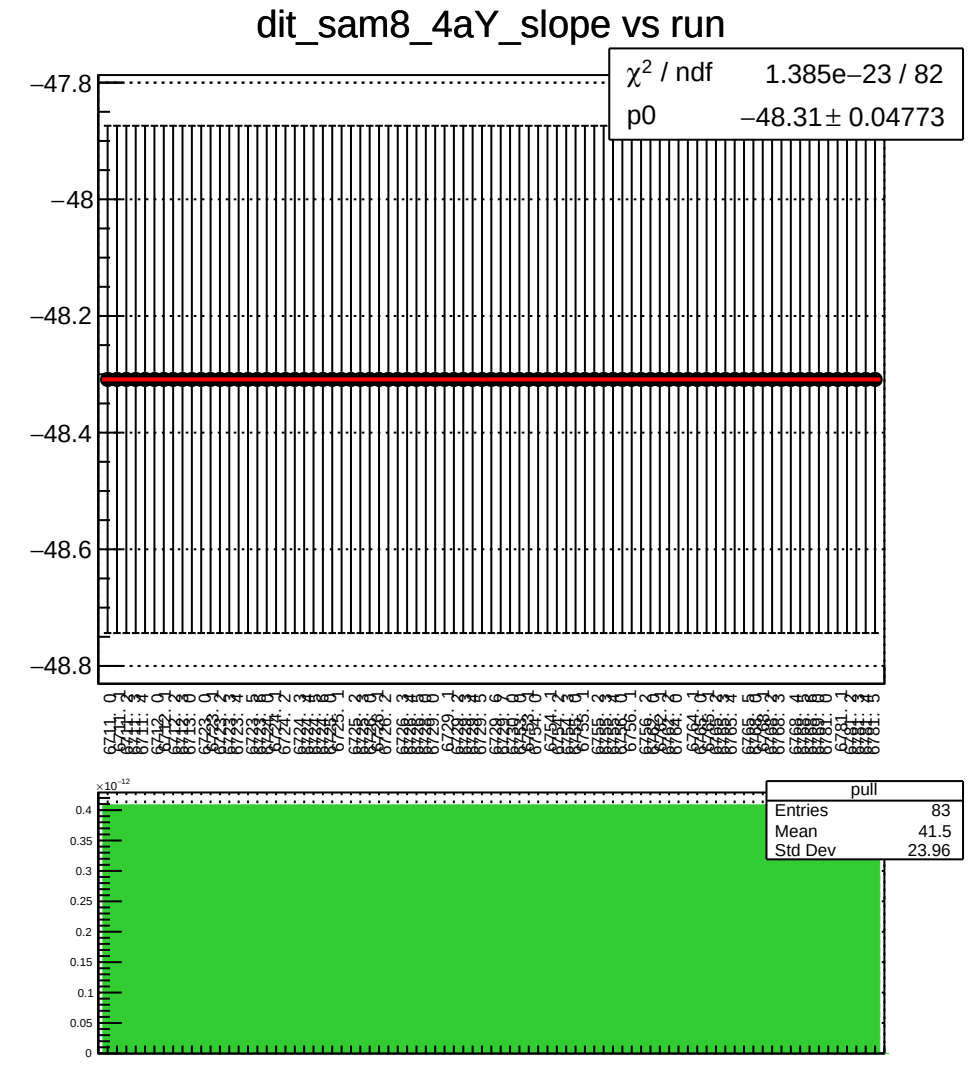

pull1D
Entries 83
Mean −3.431e−15
Std Dev 6.484e−23

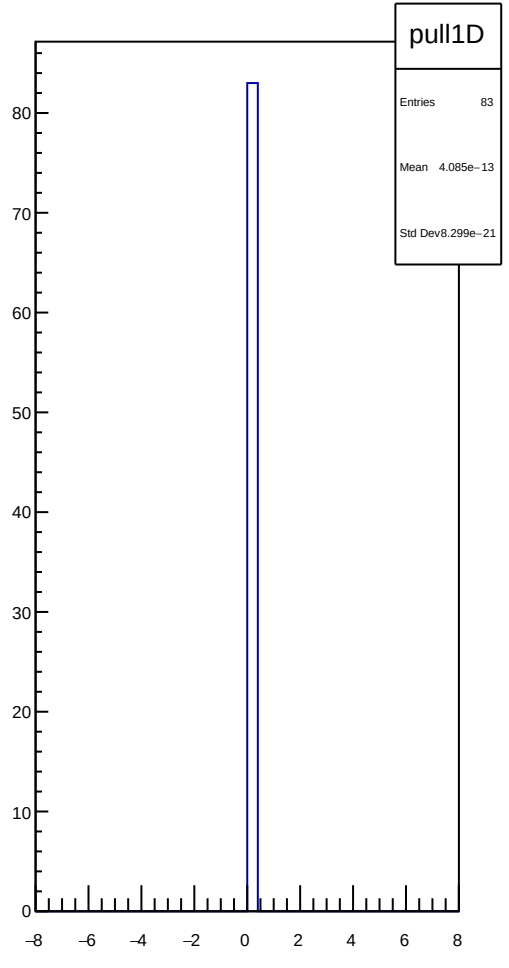

dit_sam8_4eX_slope vs run
χ² / ndf 1.535e−26 / 82
p0 −62.99 ± 0.6883
−56
−58
−60
−62
−64
−66
−68
−70
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14

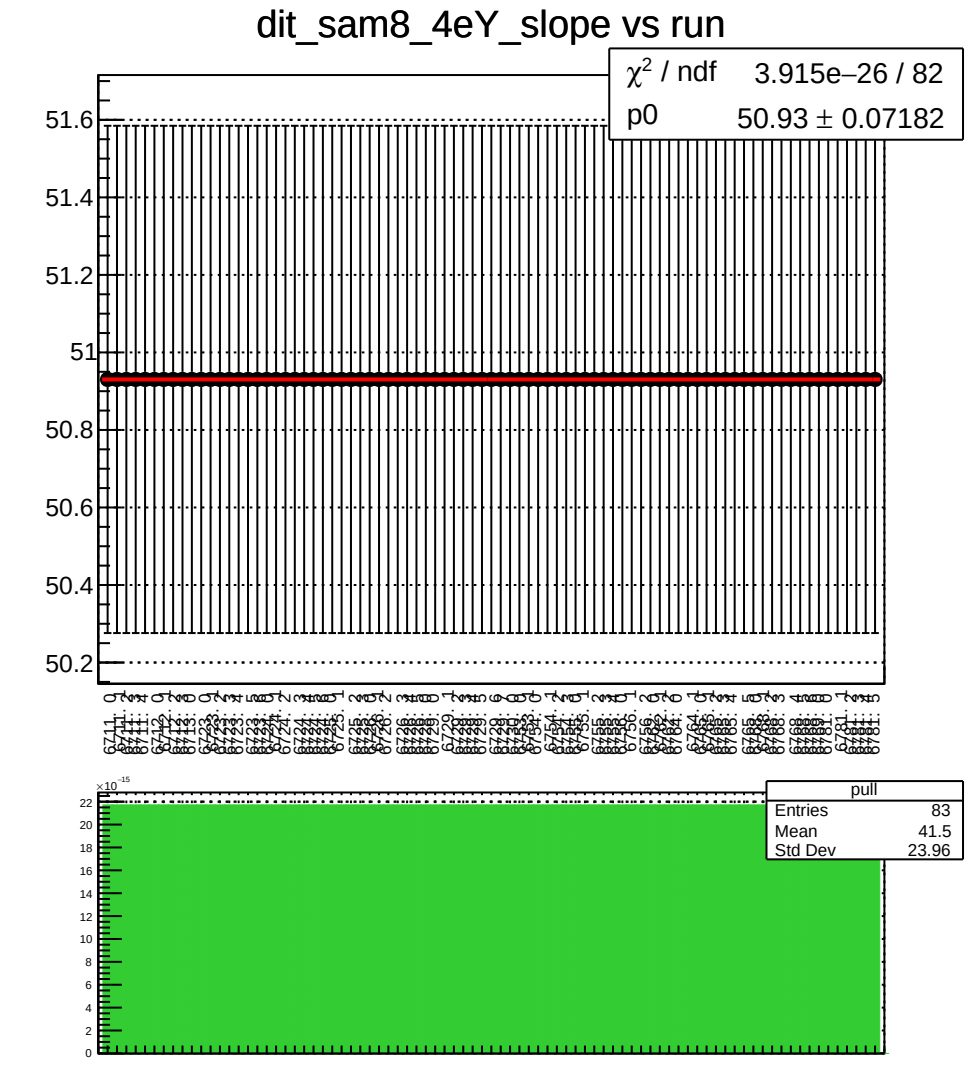

pull1D
Entries 83
Mean −1.36e−14
Std Dev 3.668e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

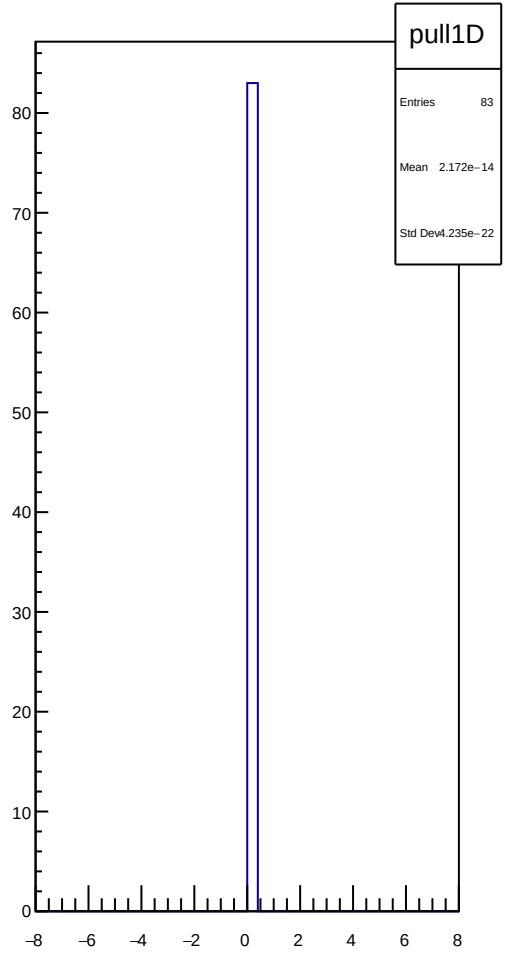

dit_sam8_11X12X_slope vs run
χ² / ndf 1.069e−26 / 82
p0 0.4984 ± 0.01611
0.65
0.6
0.55
0.5
0.45
0.4
0.35
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹⁵
10
8
6
4
2
0


pull1D
Entries 83
Mean 1.135e−14
Std Dev4.492e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_4aY_slope vs run
χ² / ndf 1.385e−23 / 82
p0 −48.31 ± 0.04773
−47.8
−48
−48.2
−48.4
−48.6
−48.8
pull
Entries 83
Mean 41.5
Std Dev 23.96
×10⁻¹²
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0


pull1D
Entries 83
Mean 4.085e−13
Std Dev8.299e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_4eY_slope vs run
χ² / ndf 3.915e−26 / 82
p0 50.93 ± 0.07182
51.6
51.4
51.2
51
50.8
50.6
50.4
50.2
×10⁻¹⁵
22
20
18
16
14
12
10
8
6
4
2
0
pull
Entries 83
Mean 41.5
Std Dev 23.96


pull1D
Entries 83
Mean 2.172e−14
Std Dev 4.235e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
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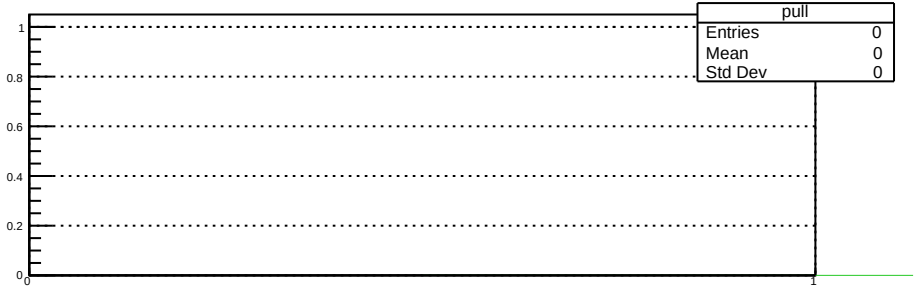
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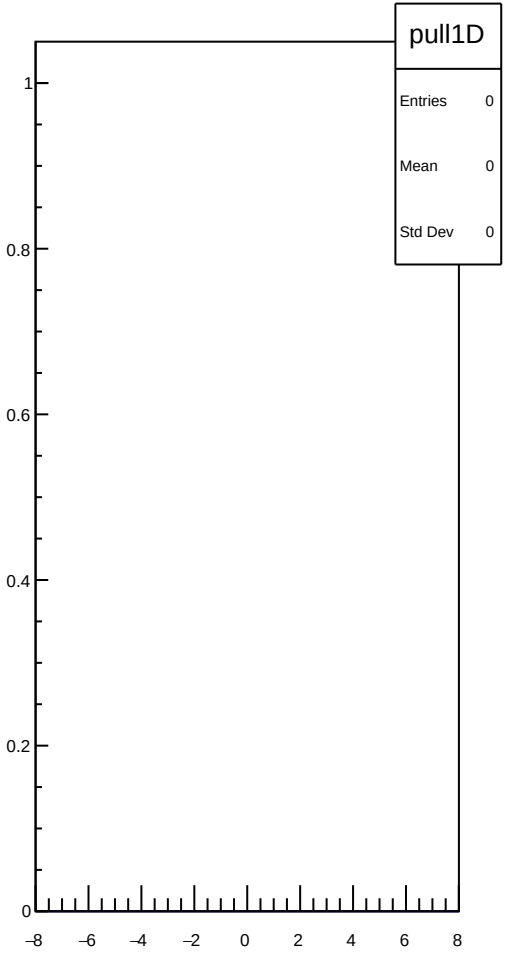
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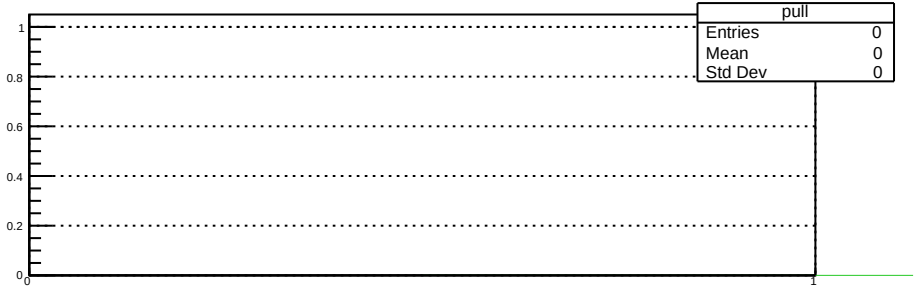
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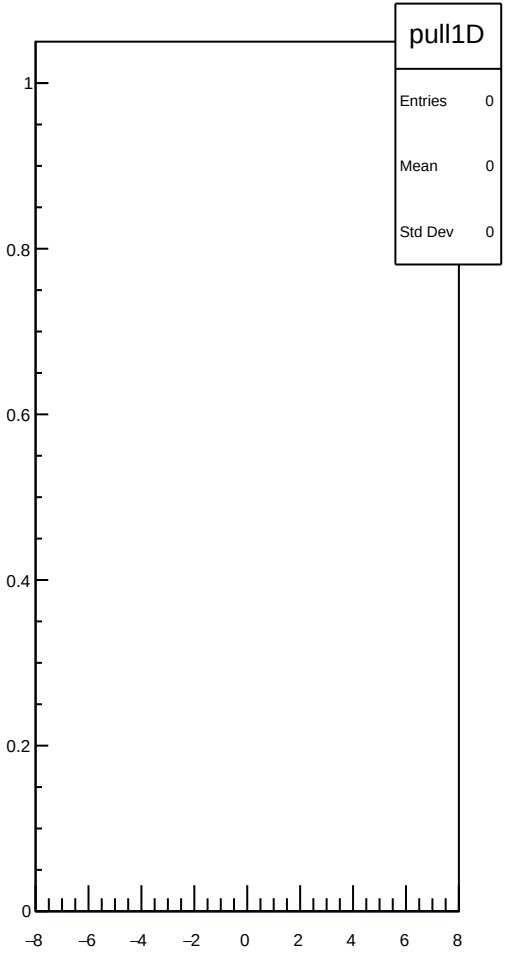
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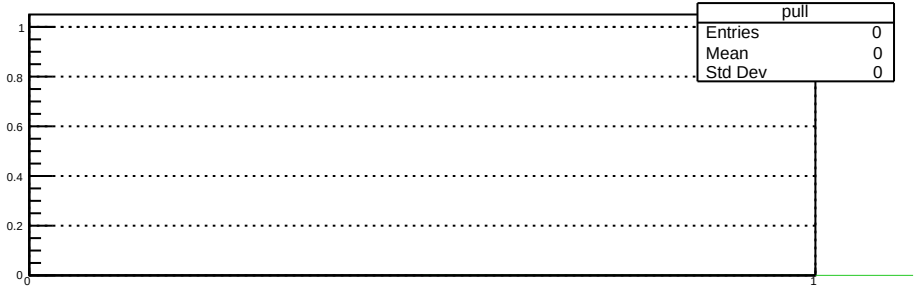
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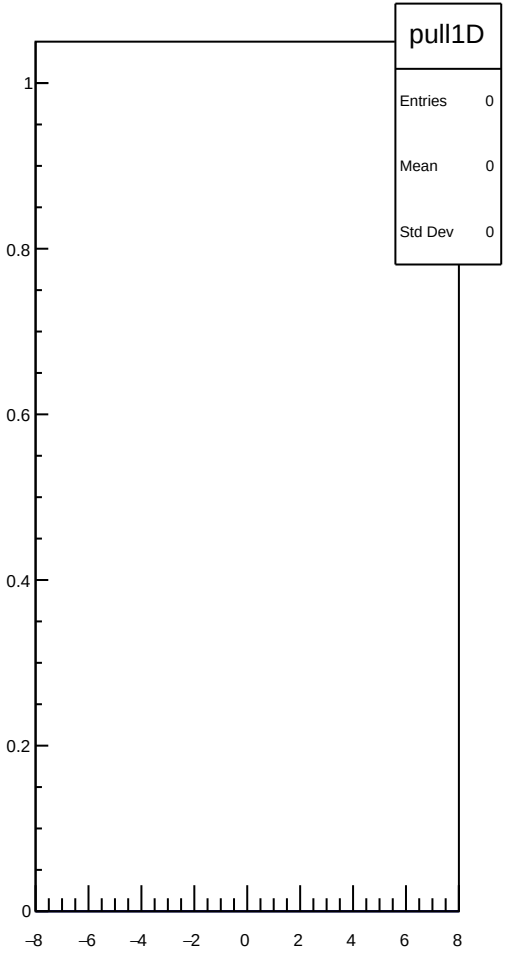
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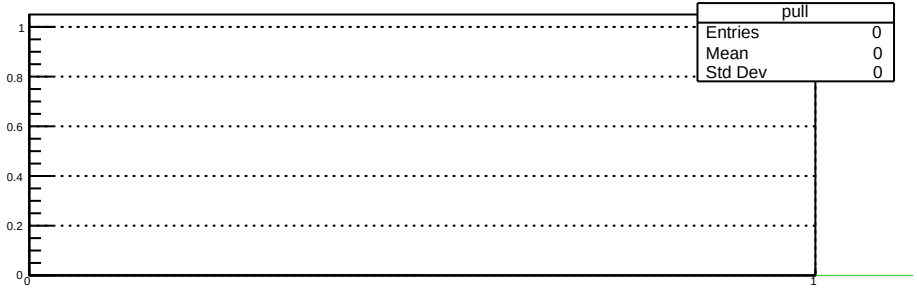
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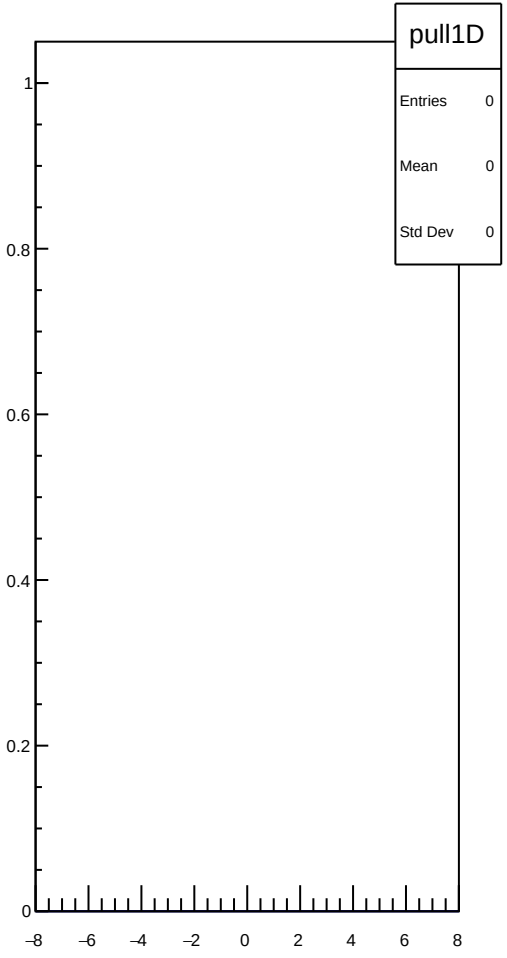
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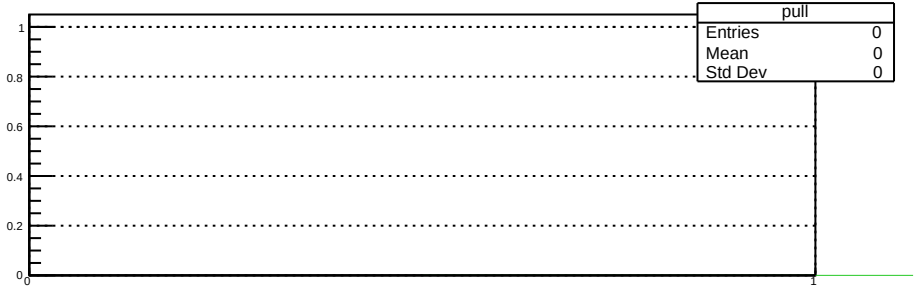
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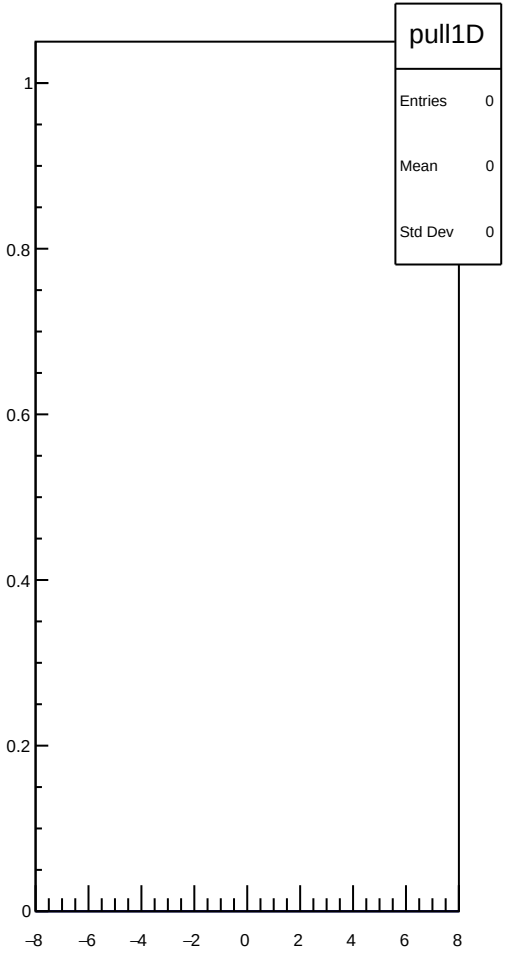
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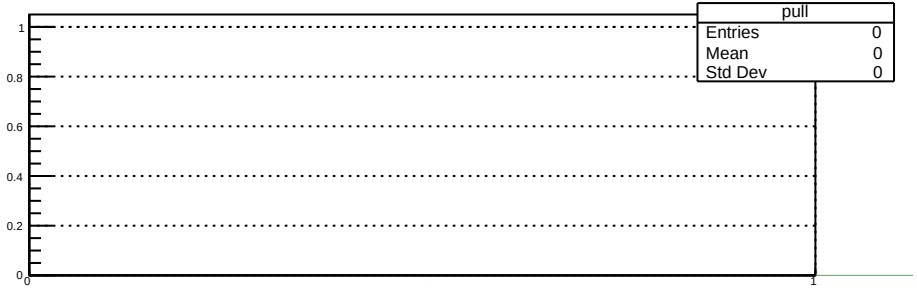
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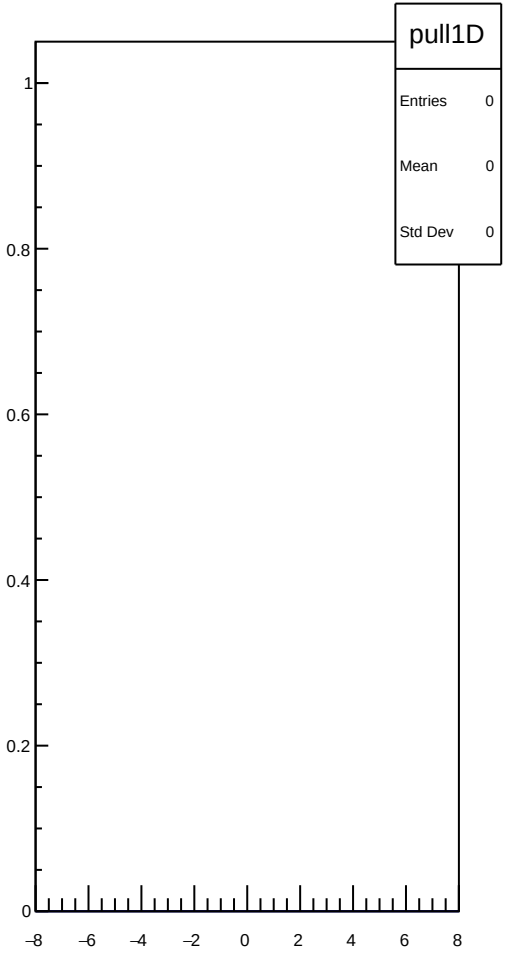
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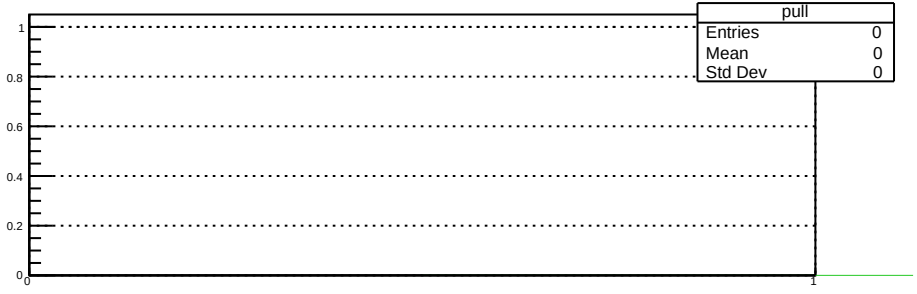
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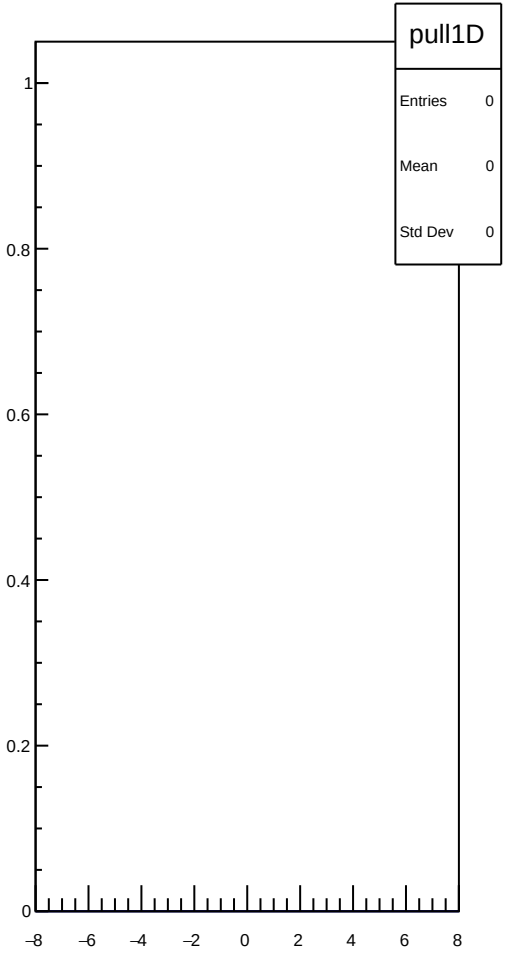
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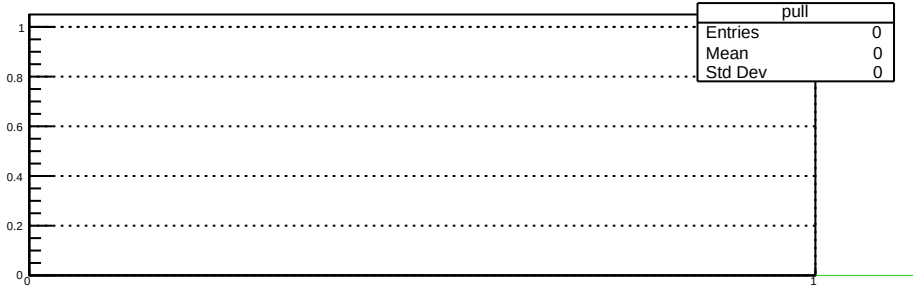
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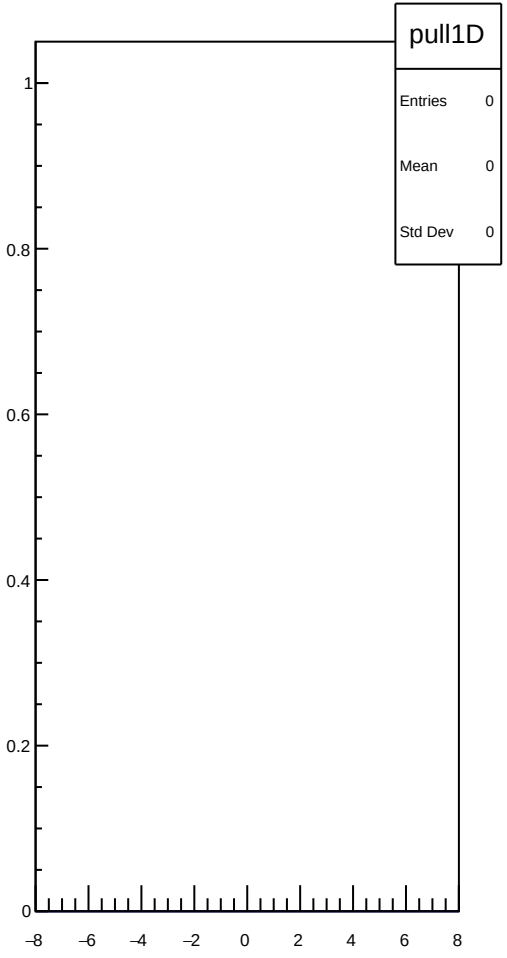
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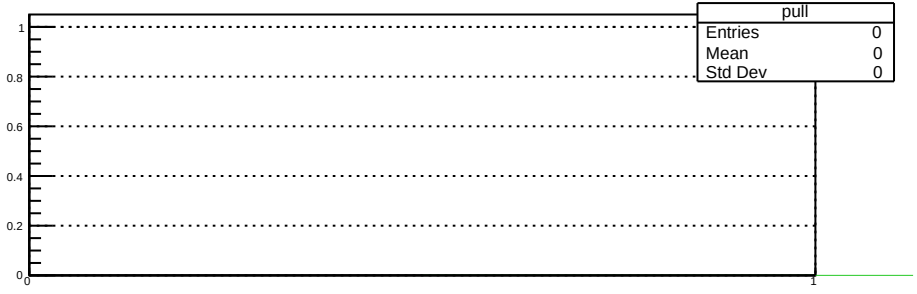
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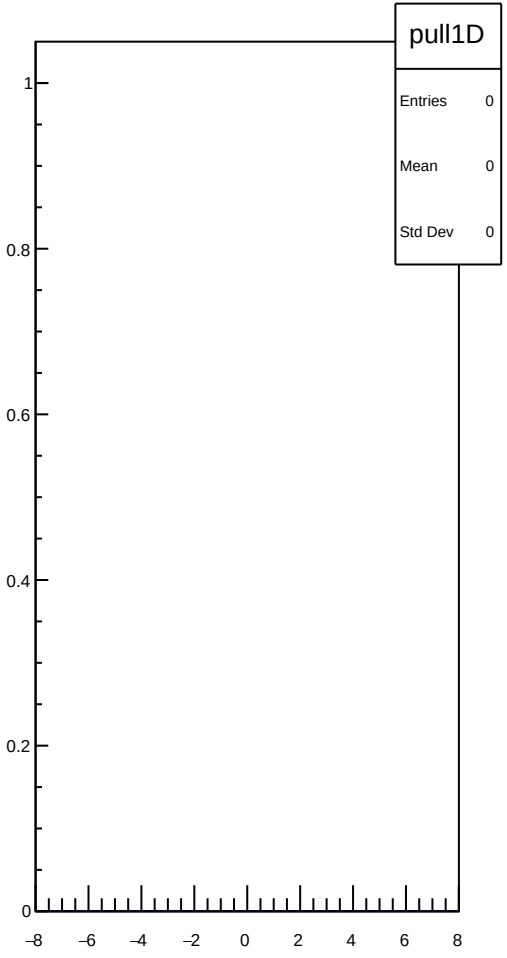
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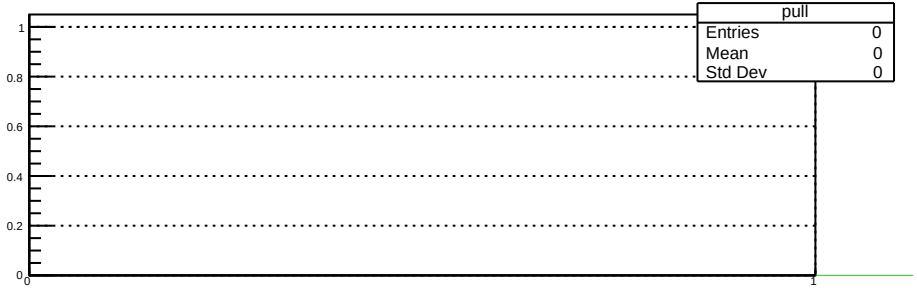
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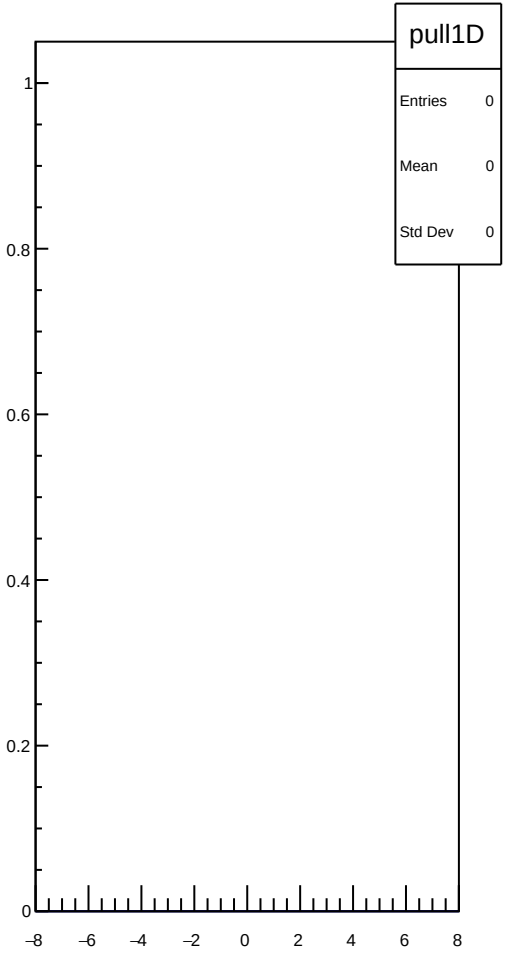
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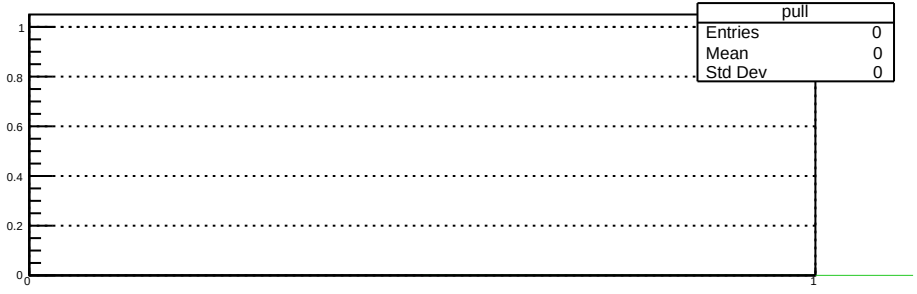
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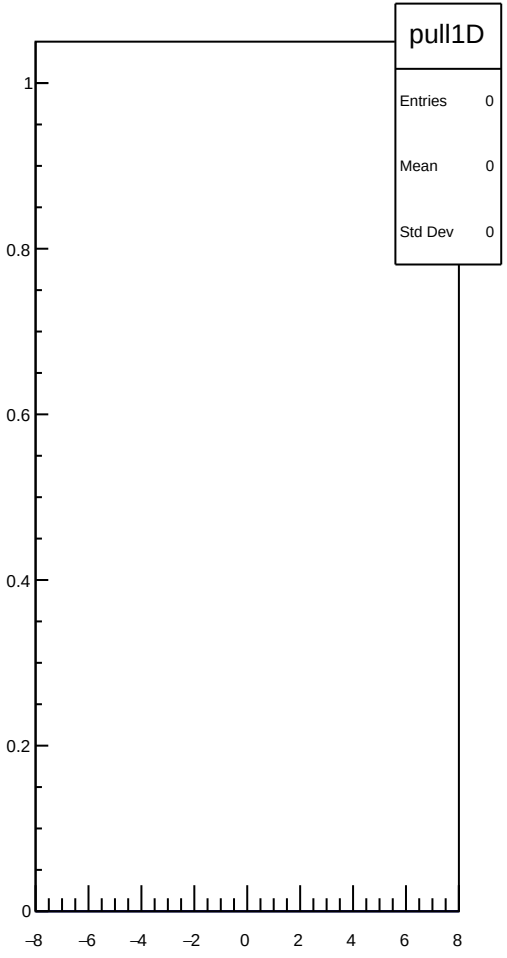
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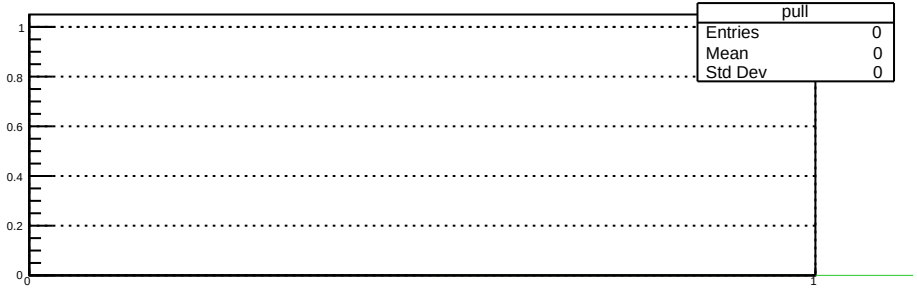
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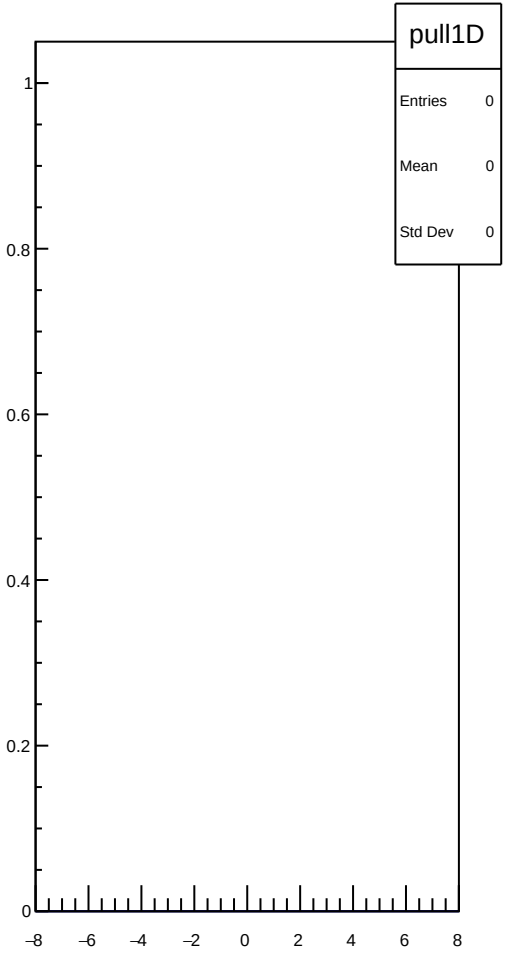
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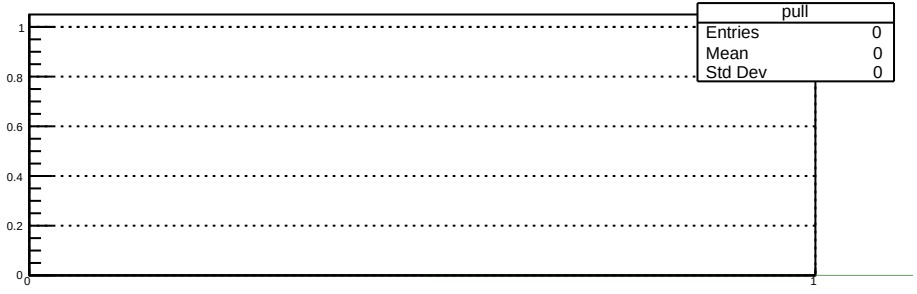
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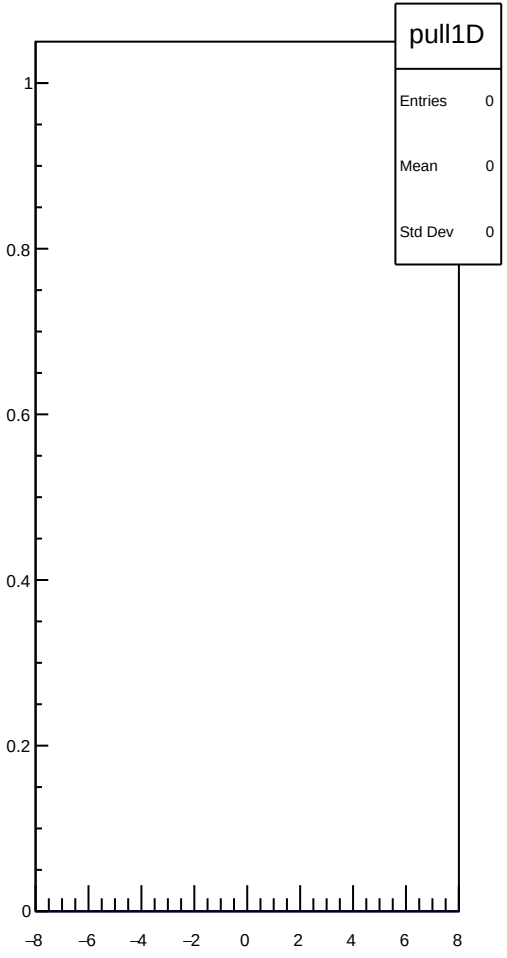
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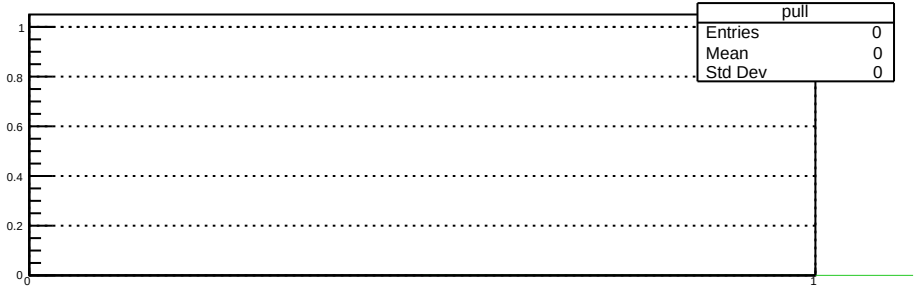
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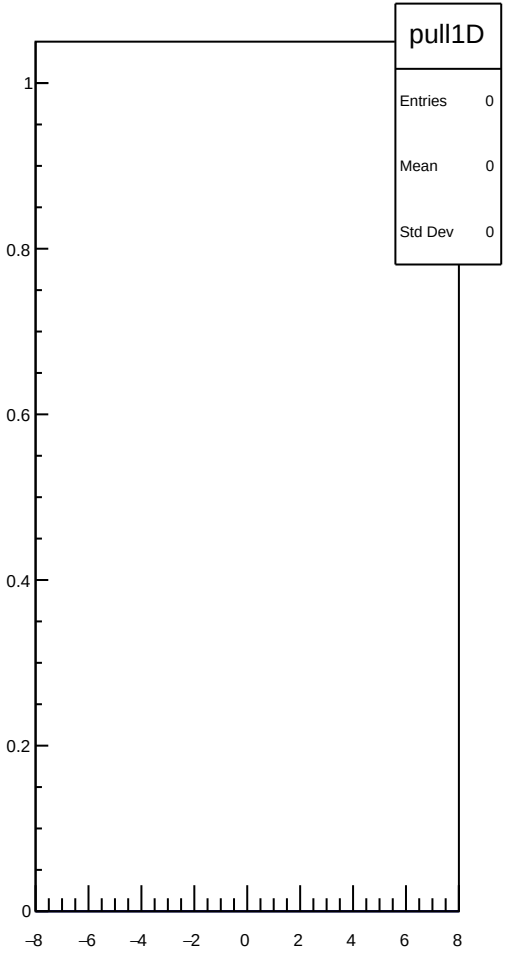
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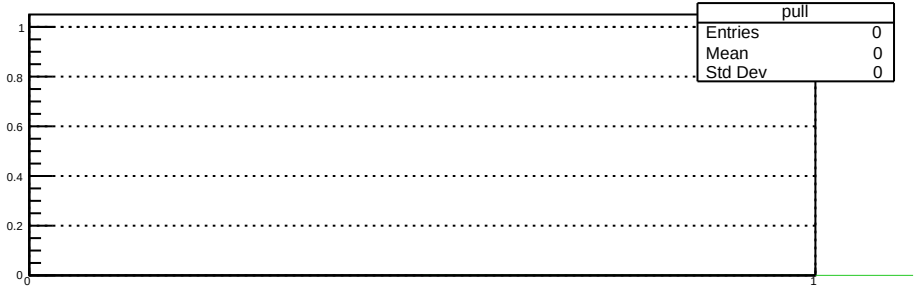
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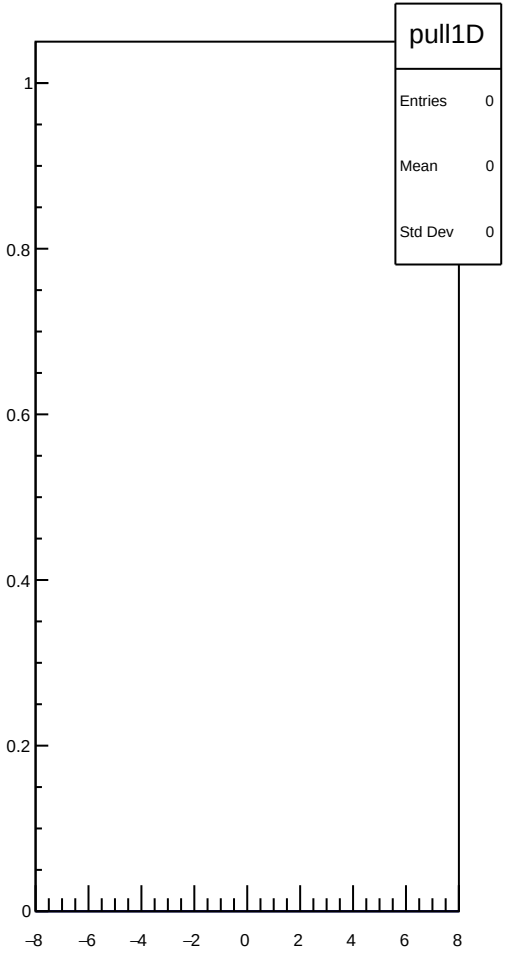
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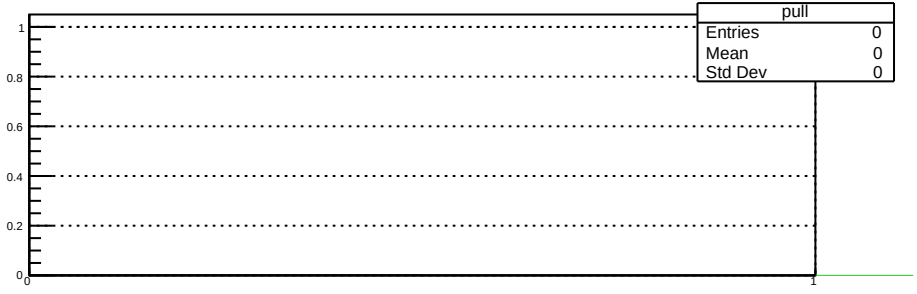
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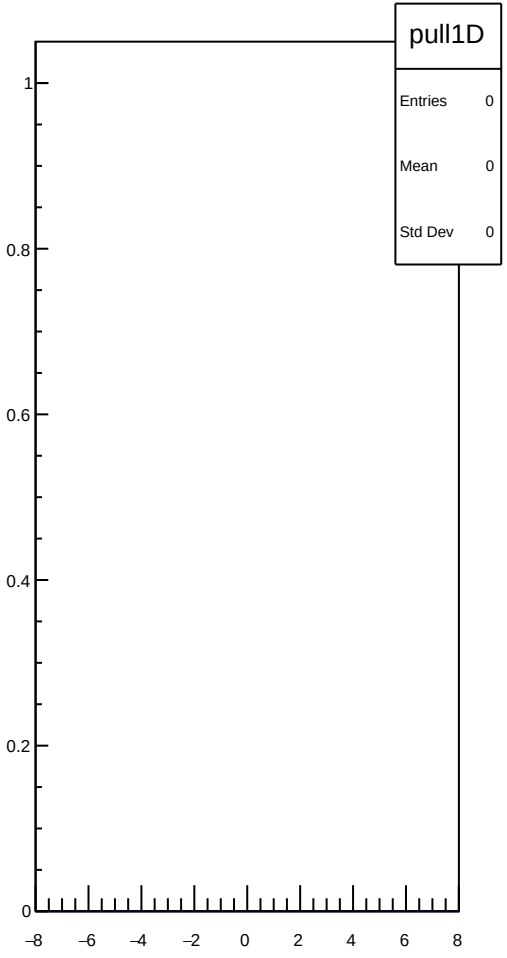
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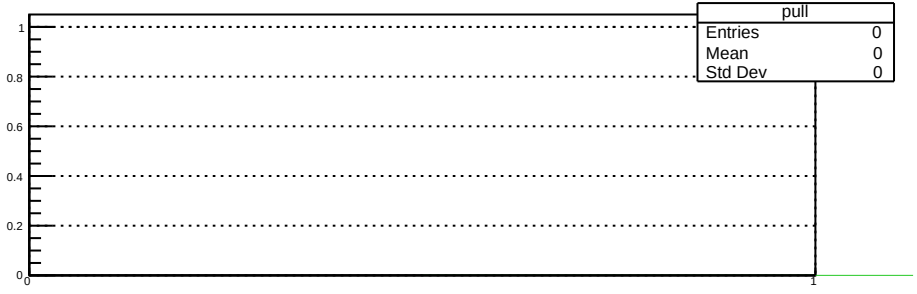
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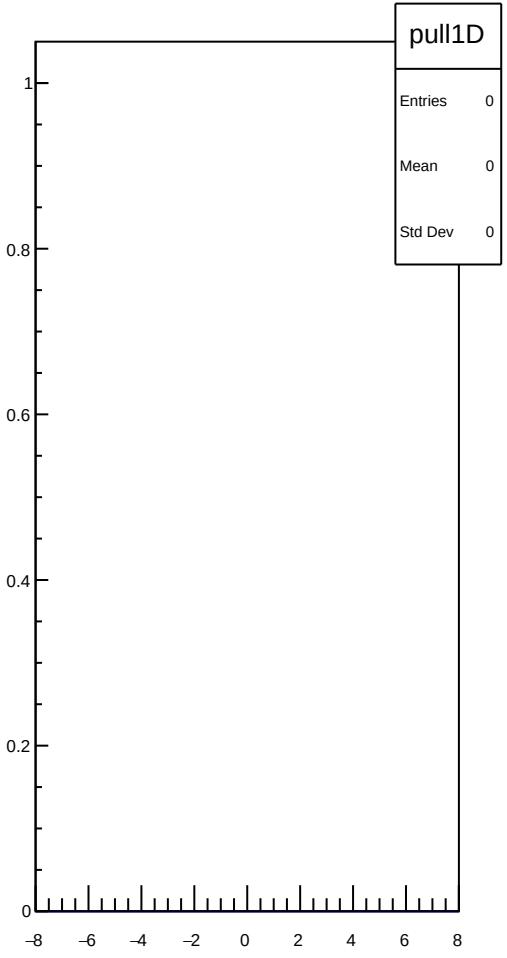
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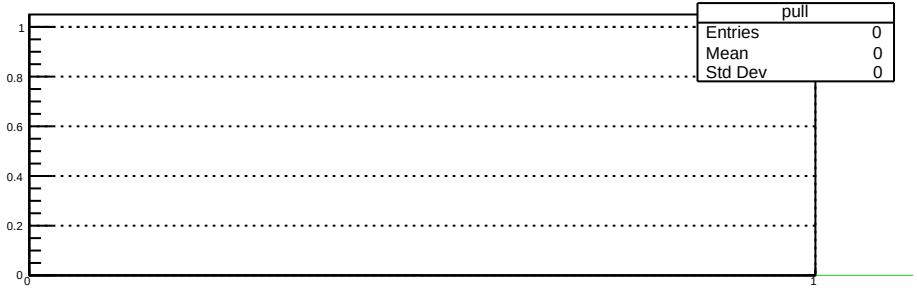
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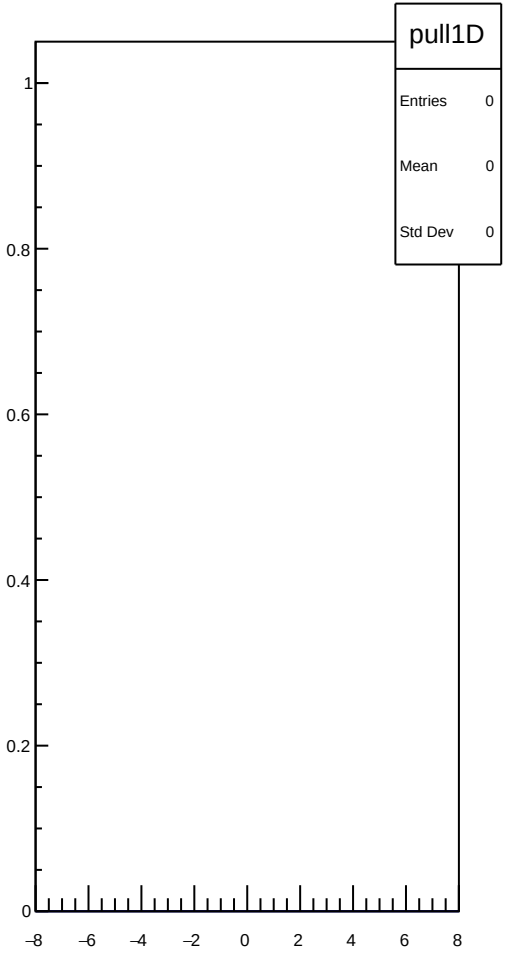
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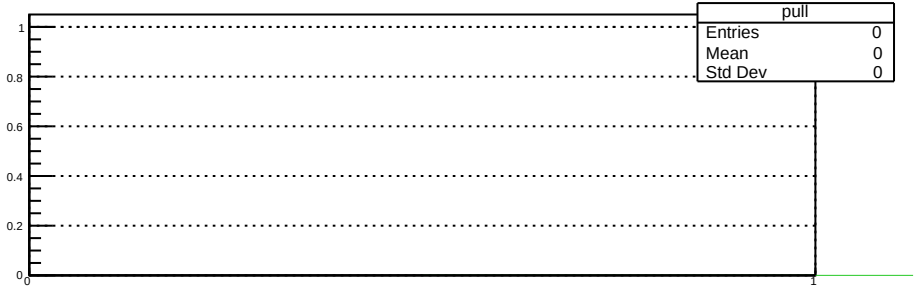
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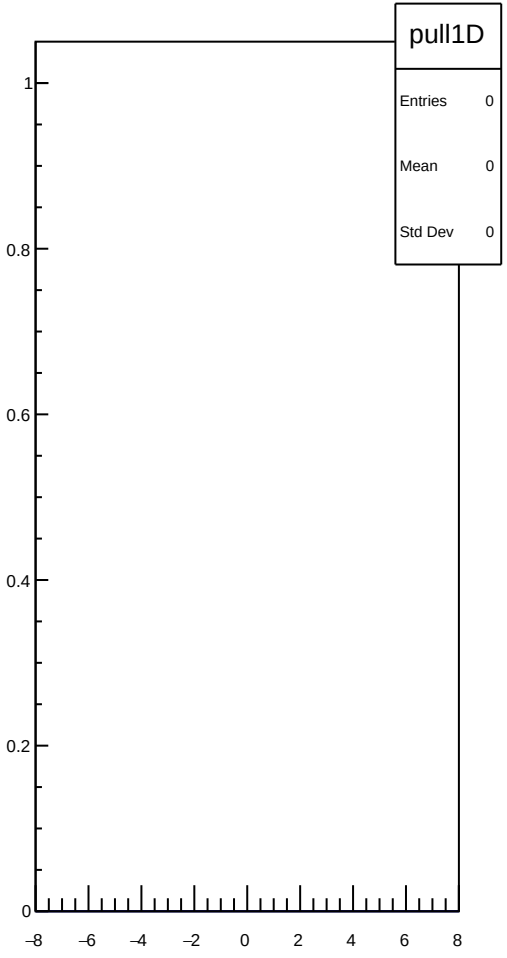
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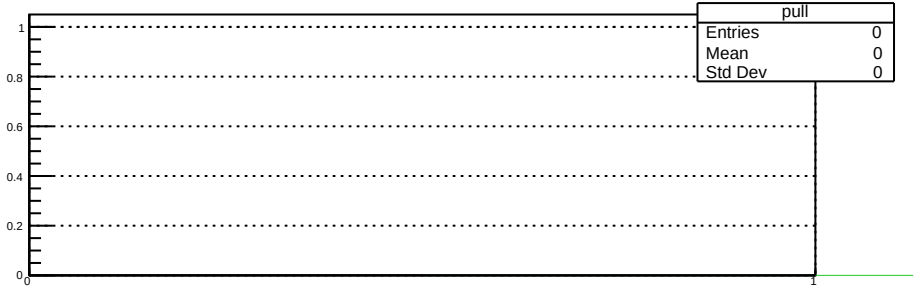
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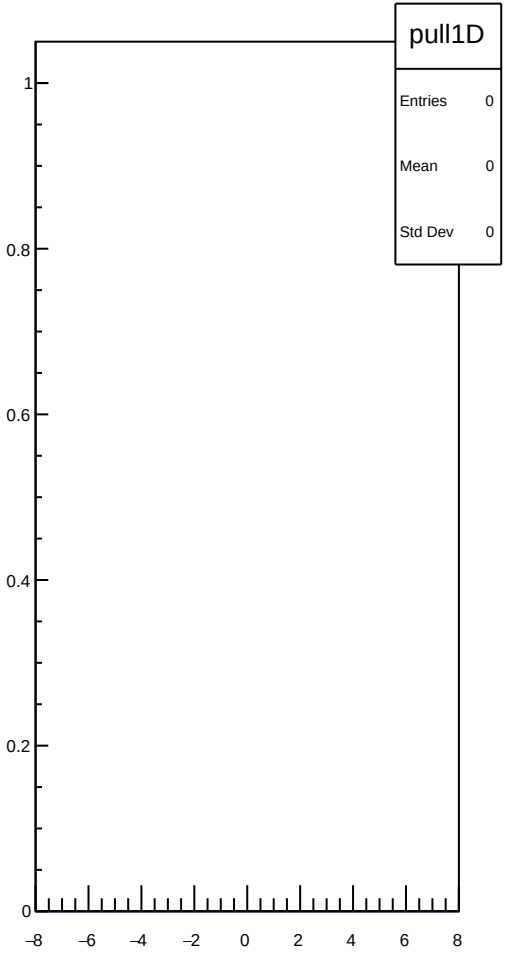
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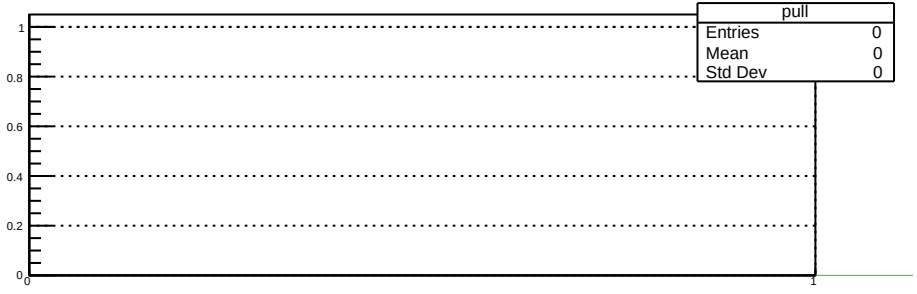
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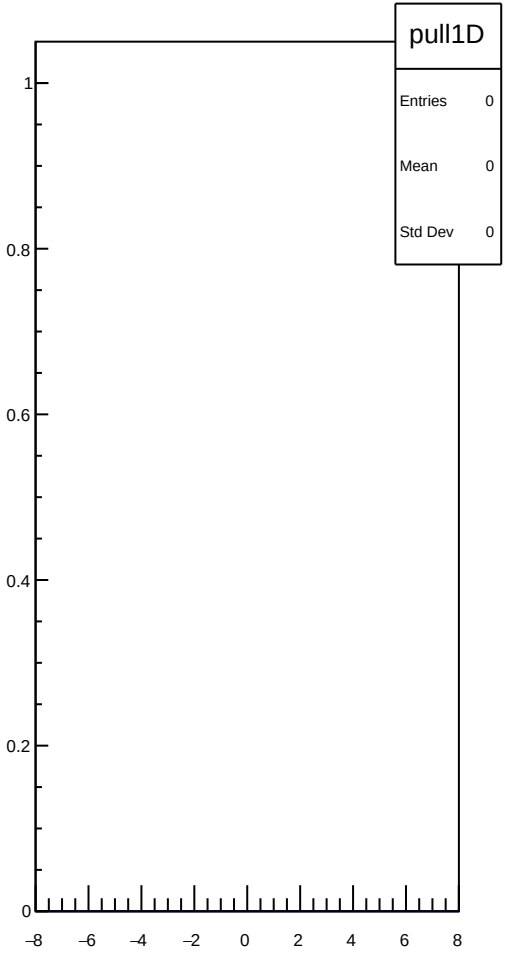
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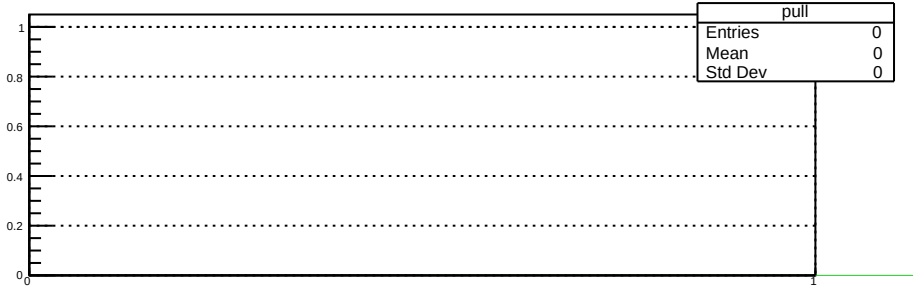
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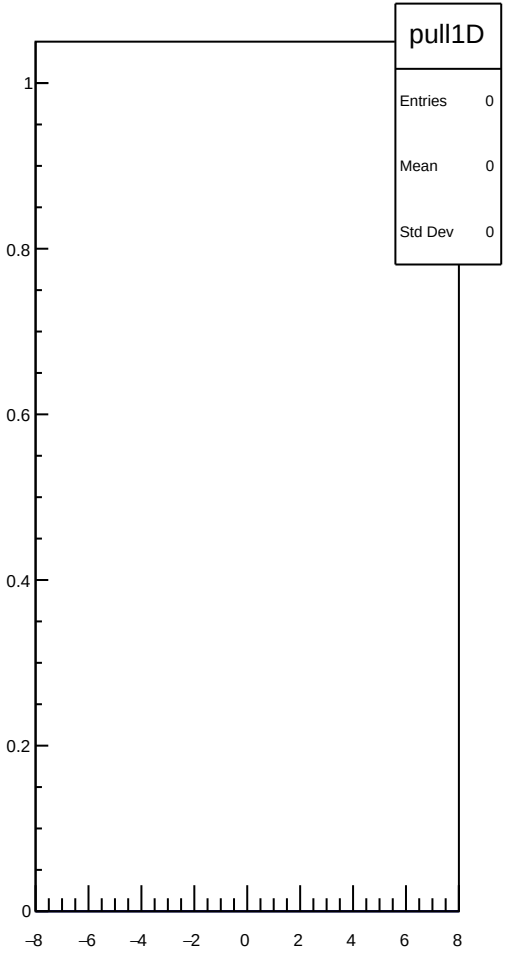
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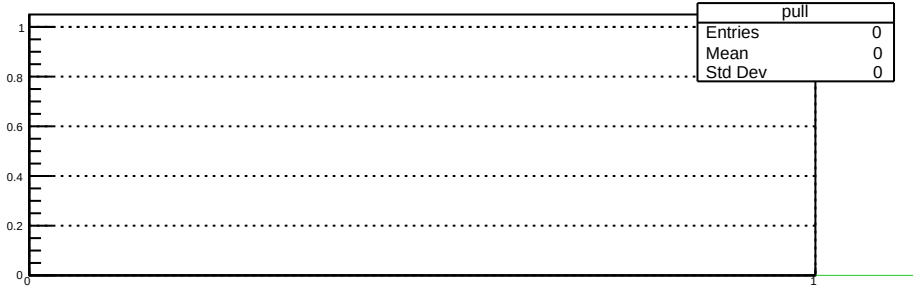
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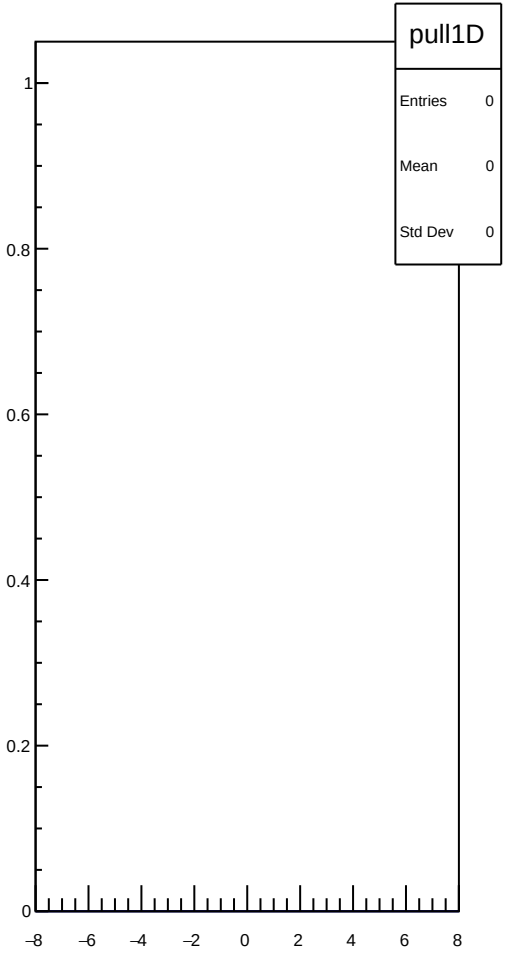
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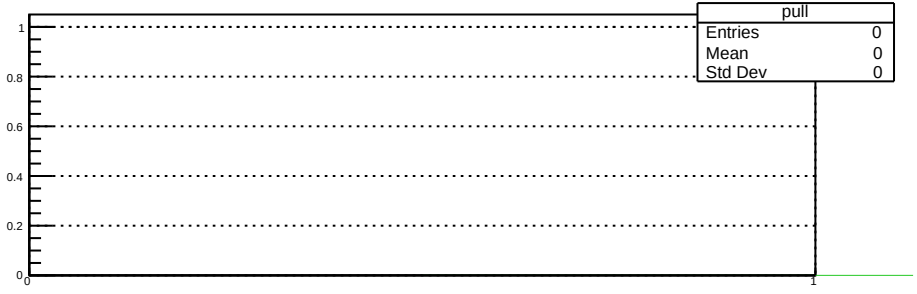
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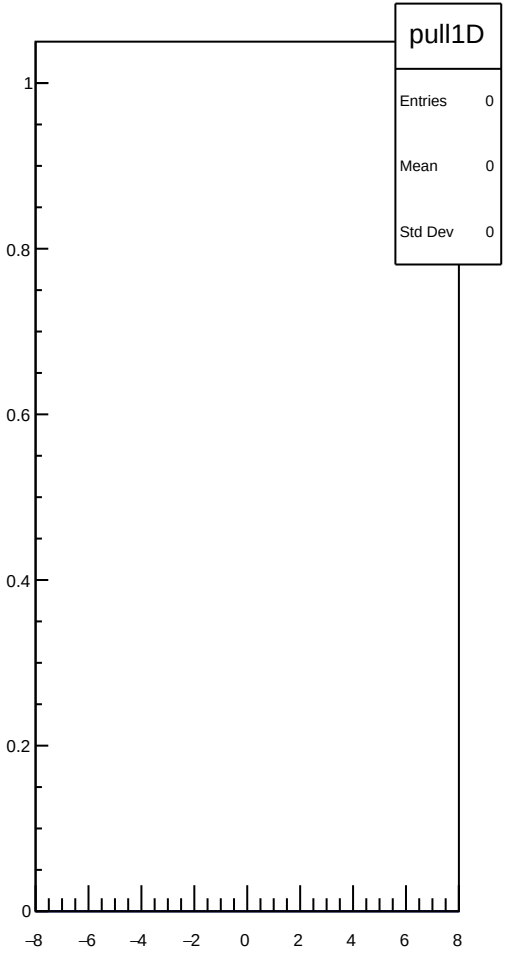
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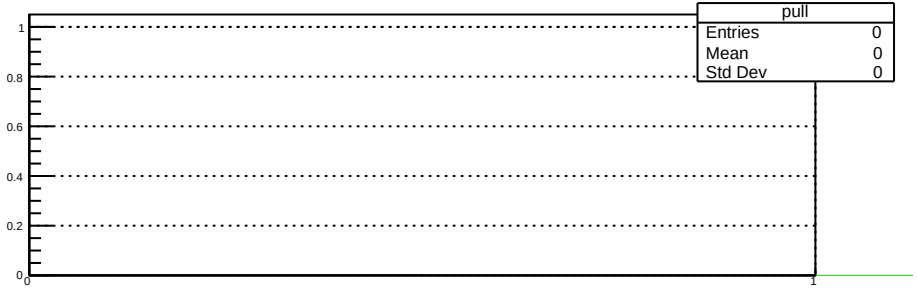
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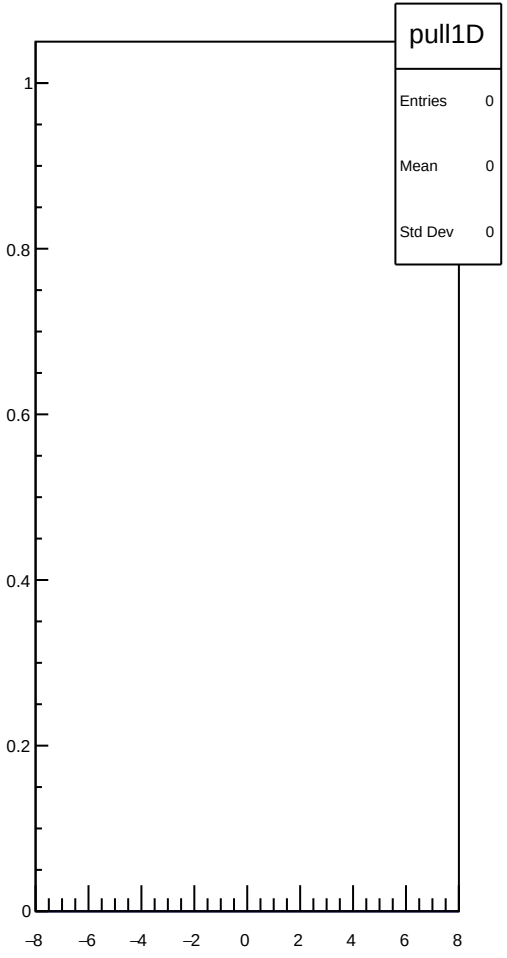
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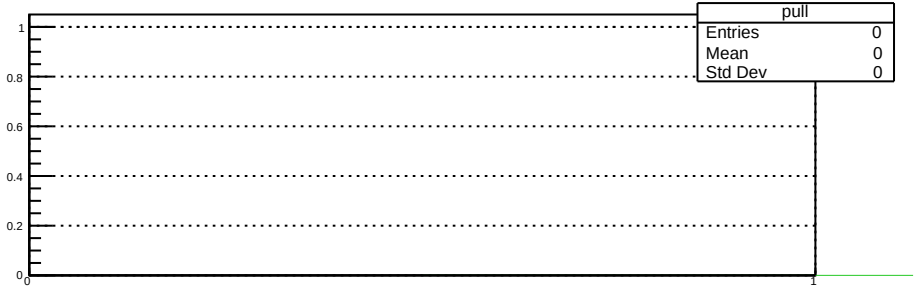
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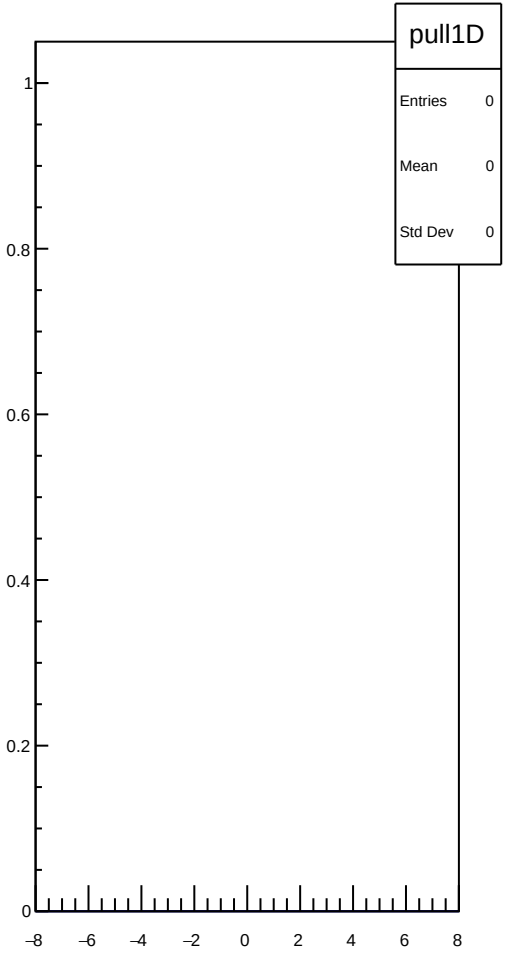
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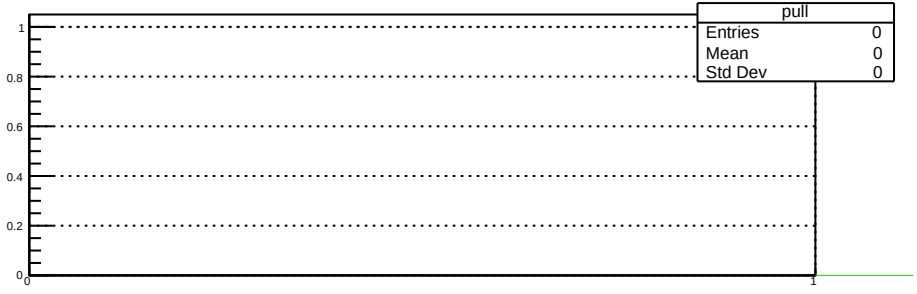
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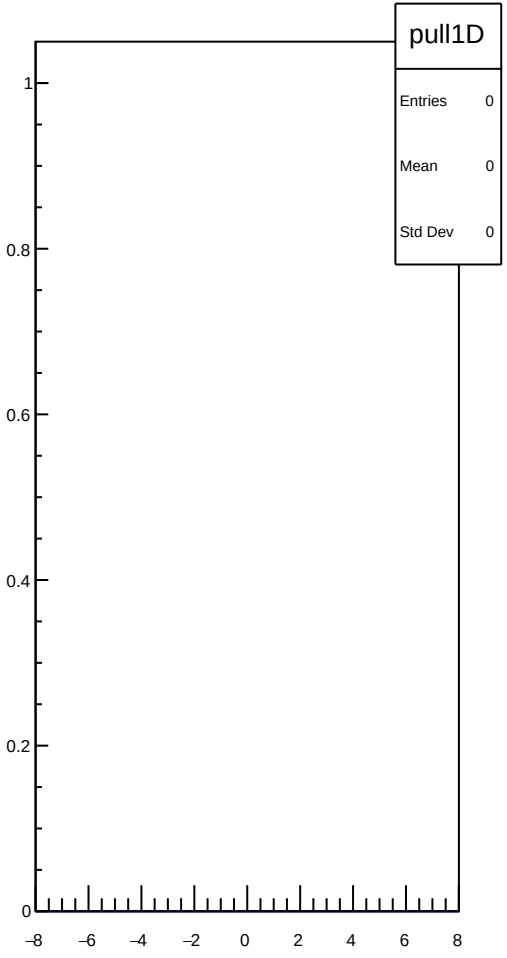
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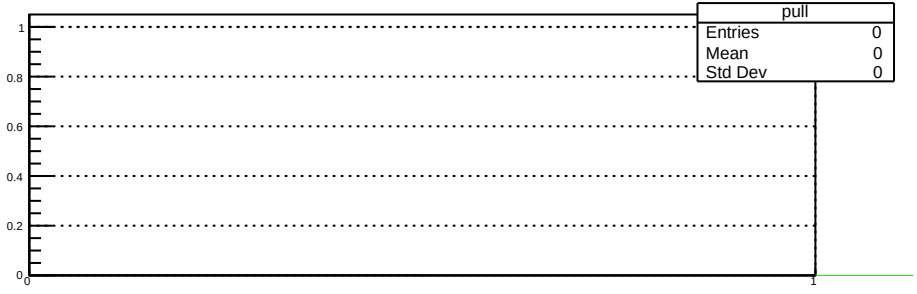
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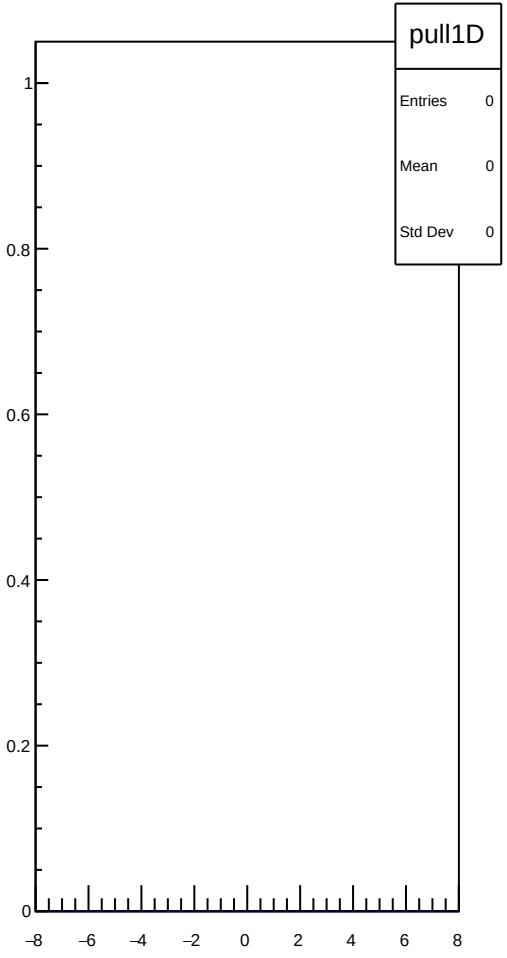
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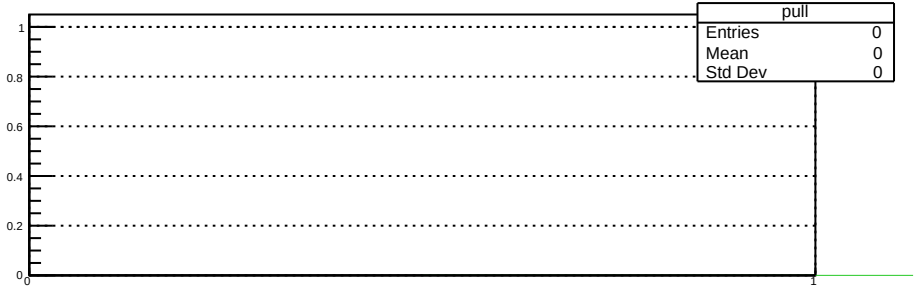
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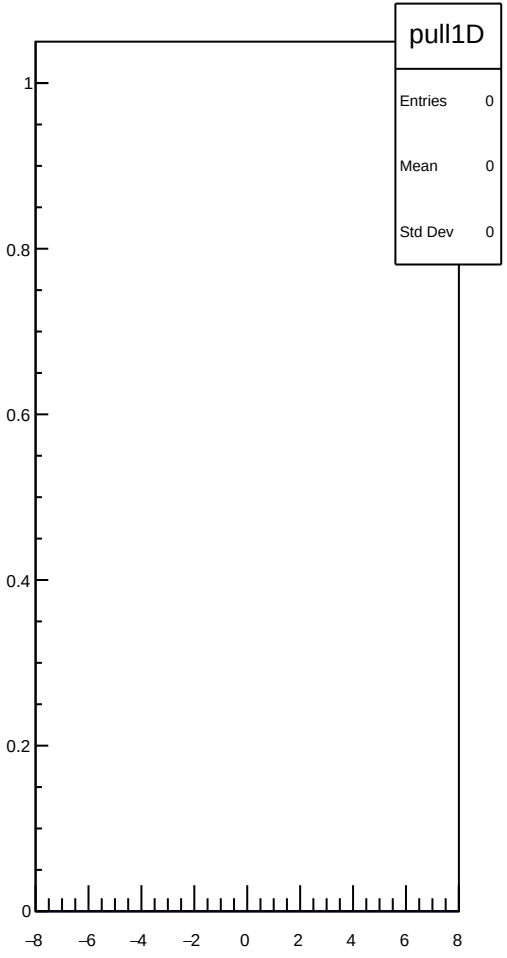
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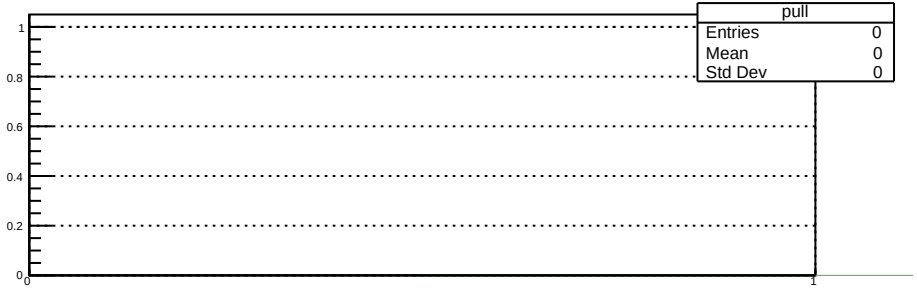
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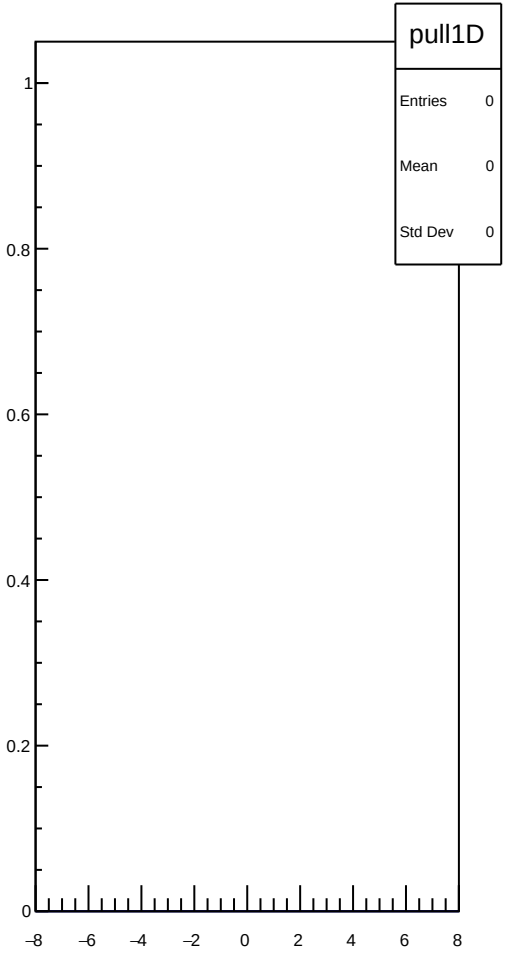
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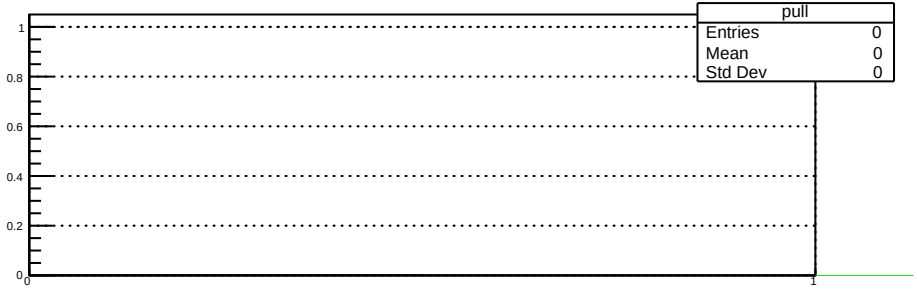
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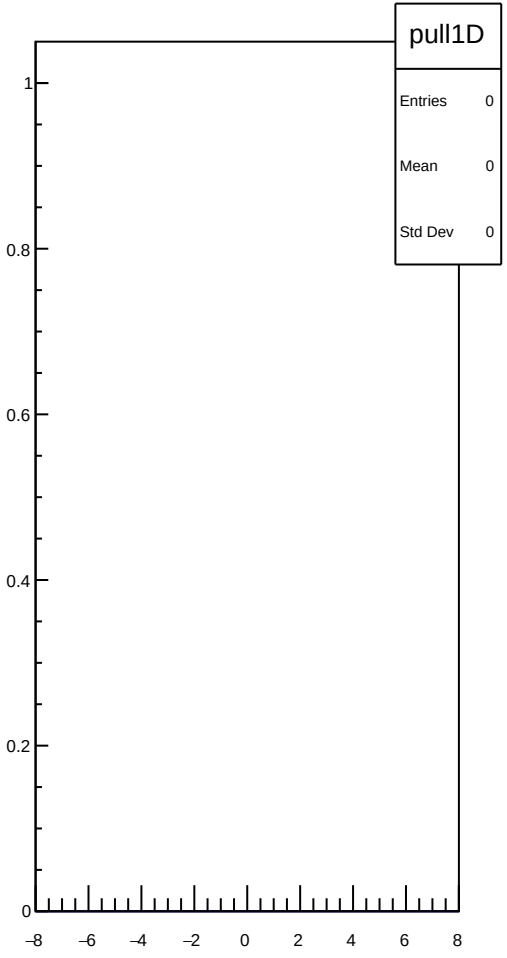
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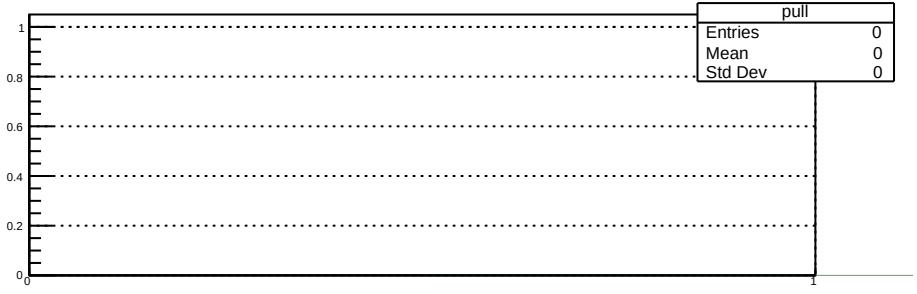
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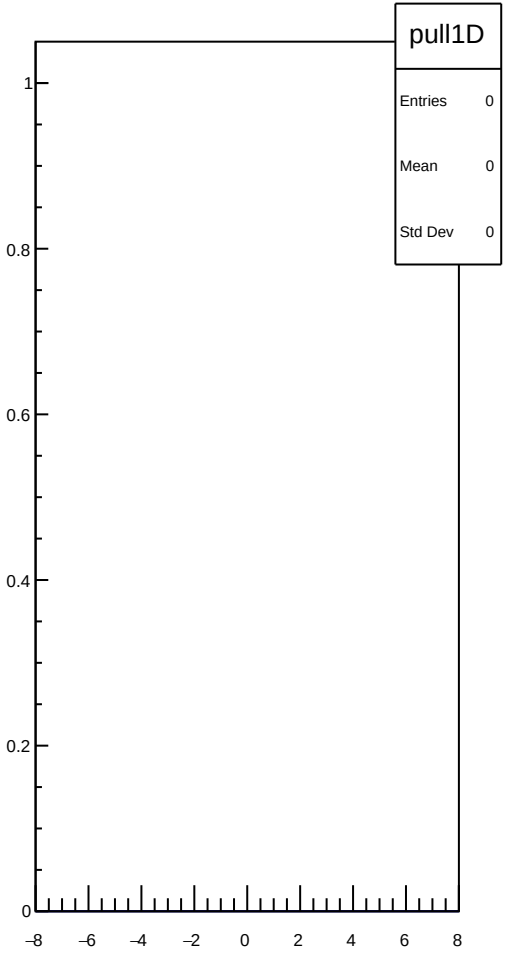
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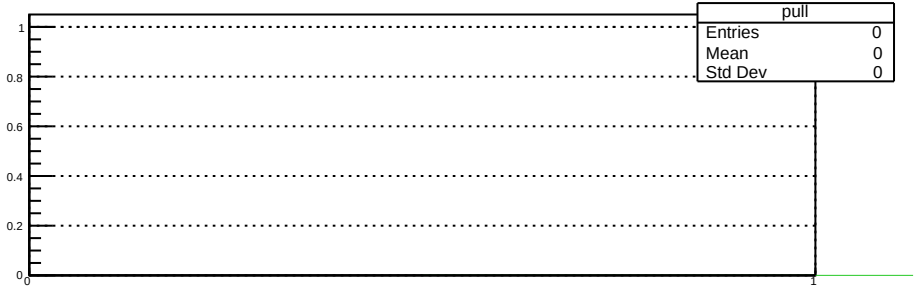
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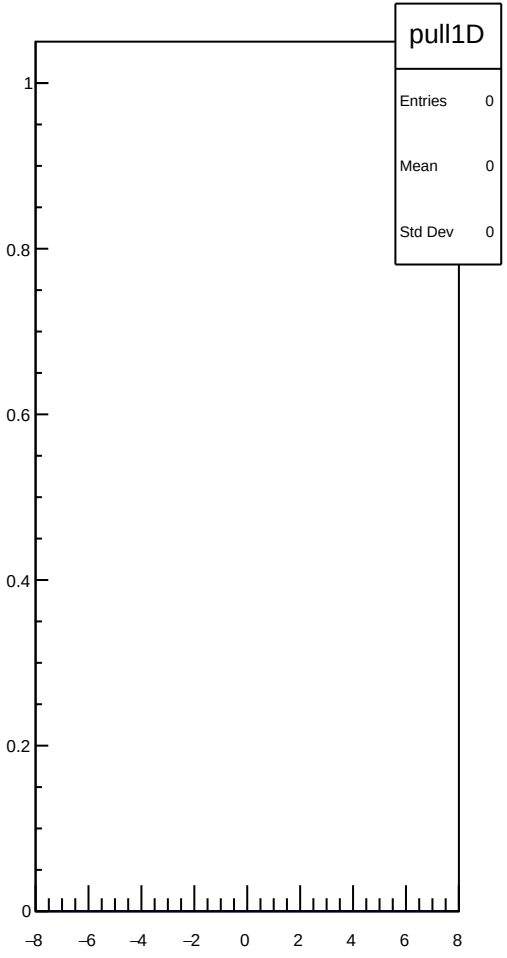
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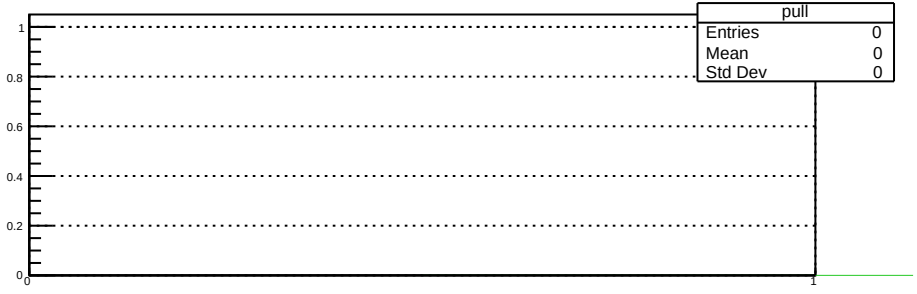
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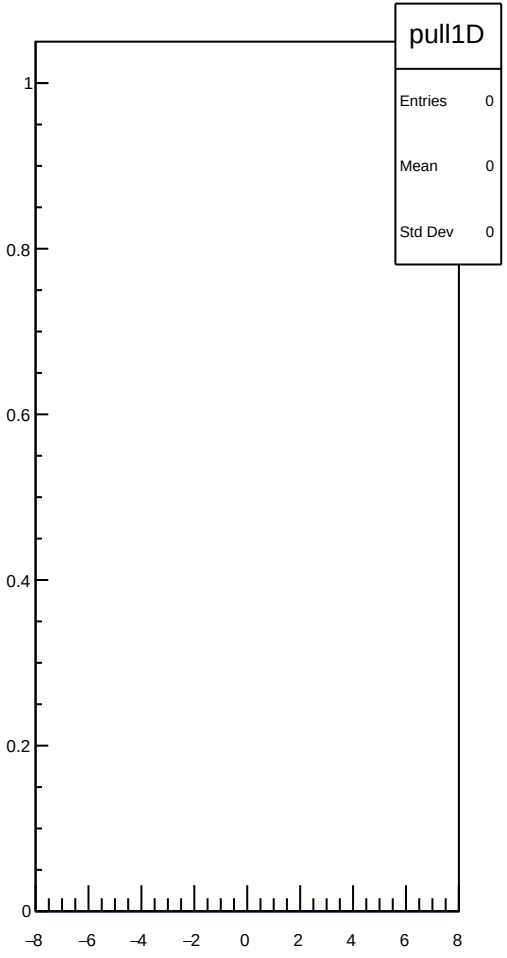
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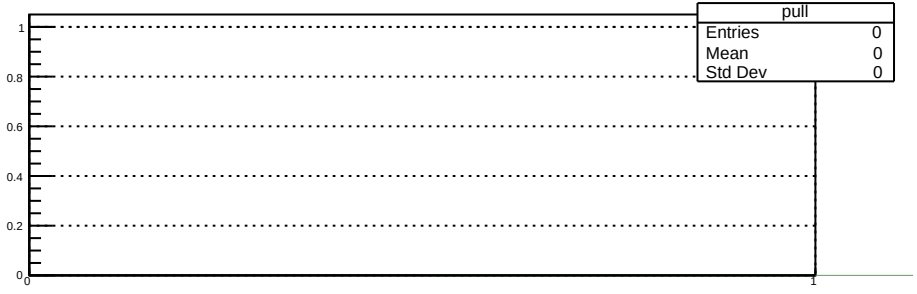
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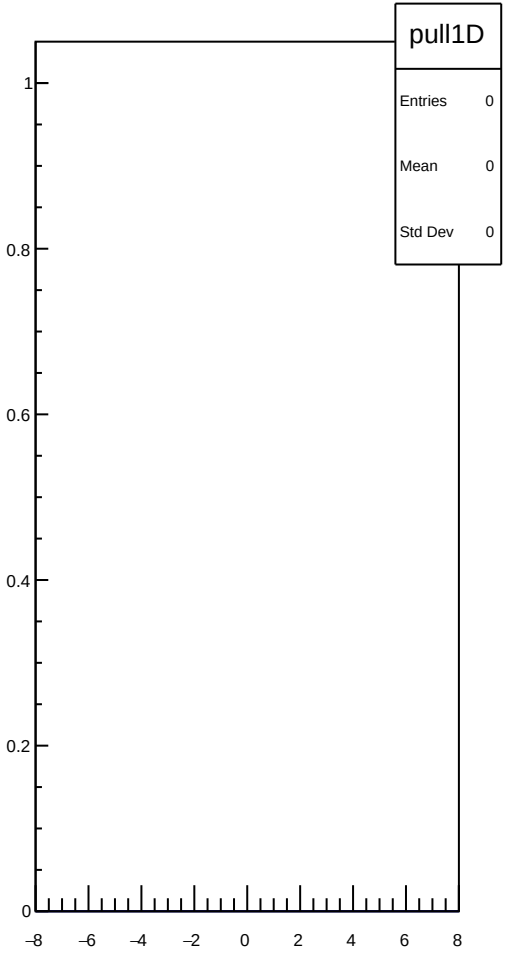
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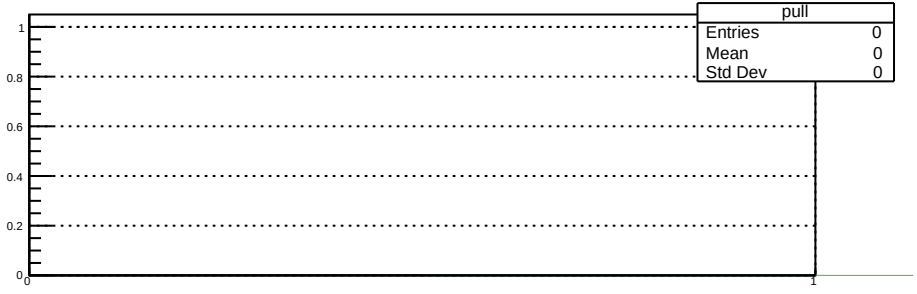
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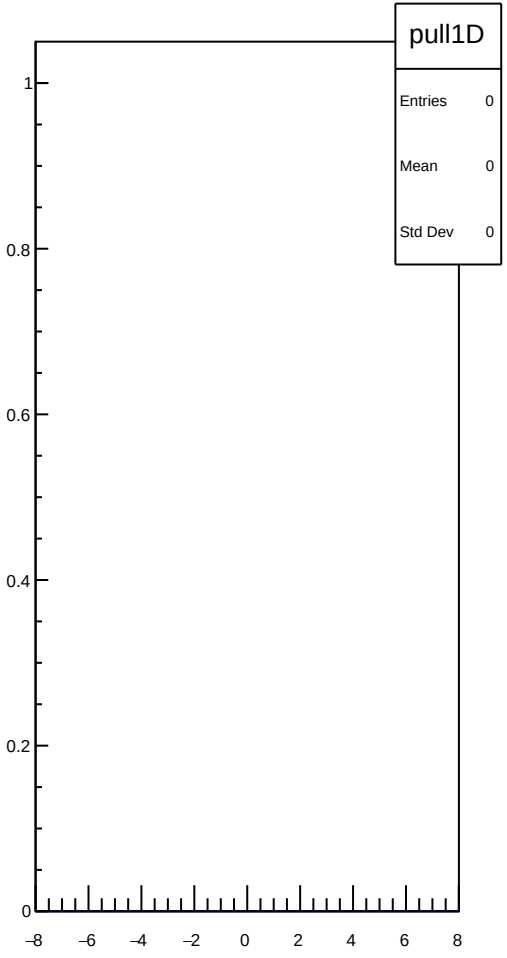
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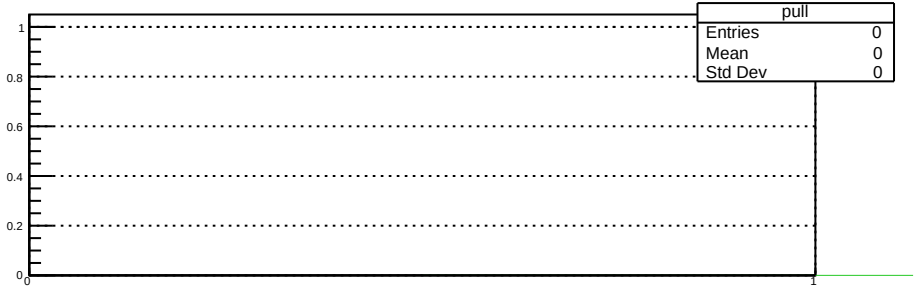
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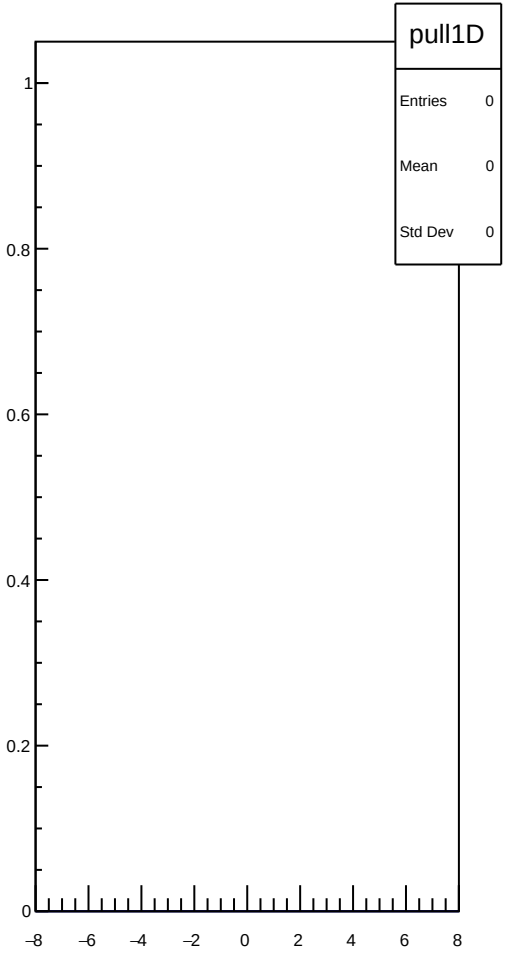
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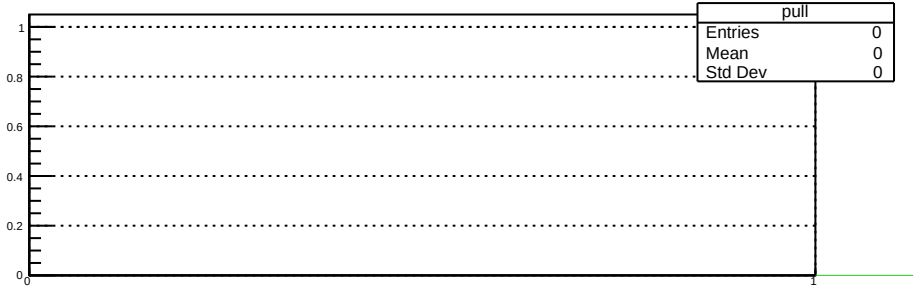
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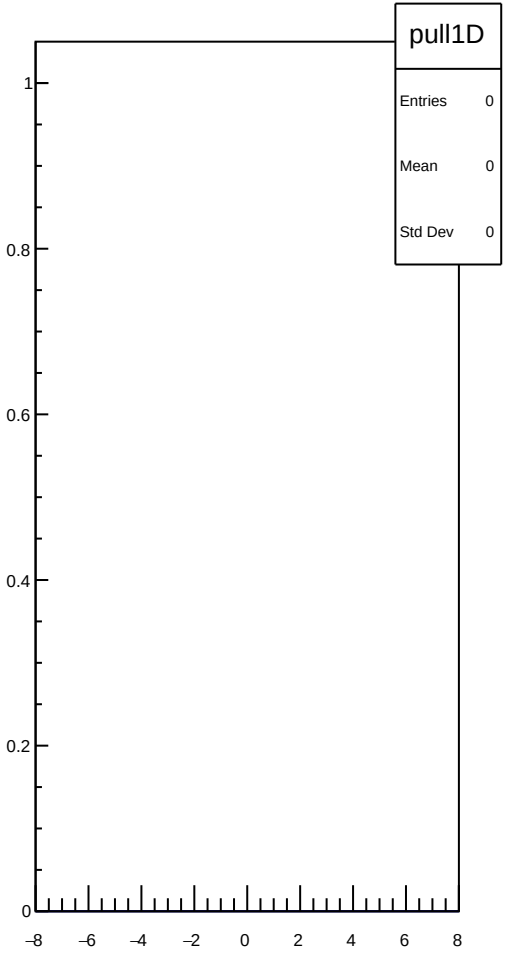
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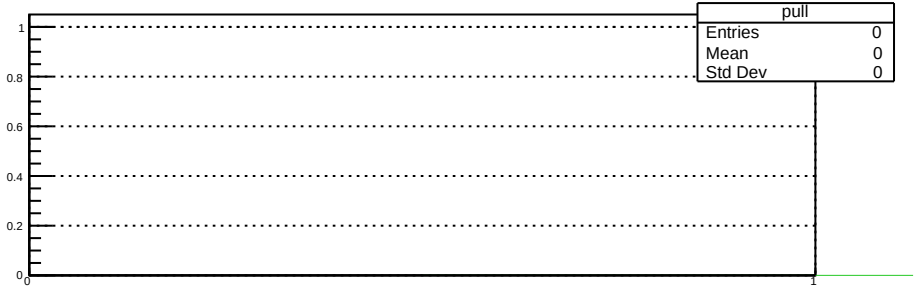
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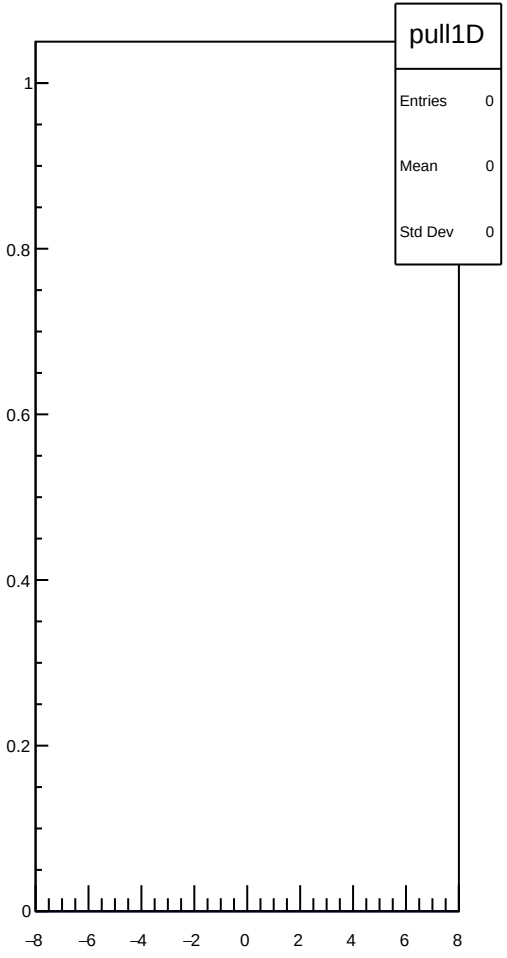
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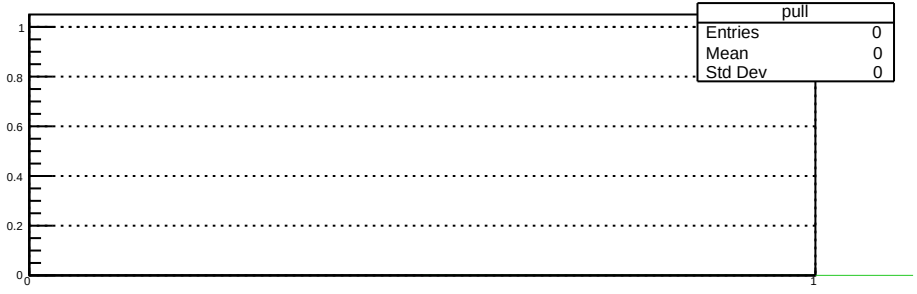
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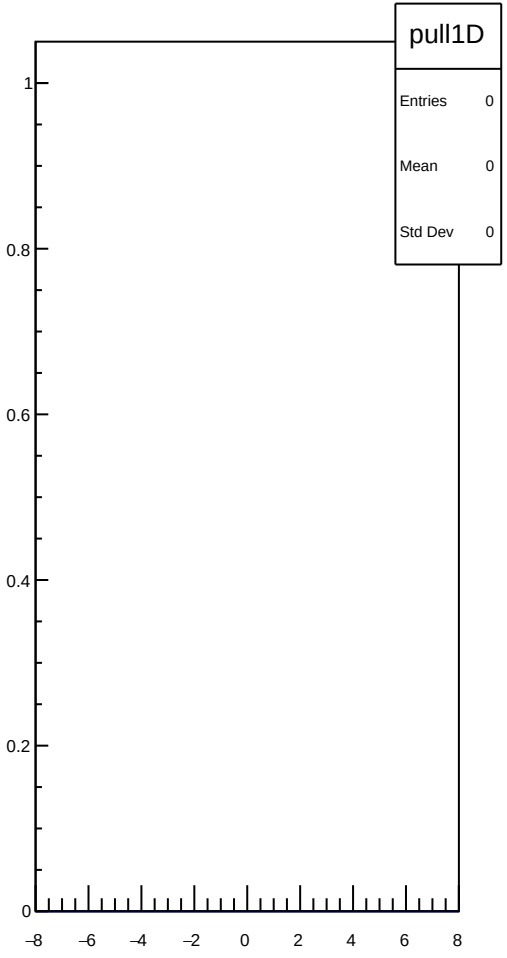
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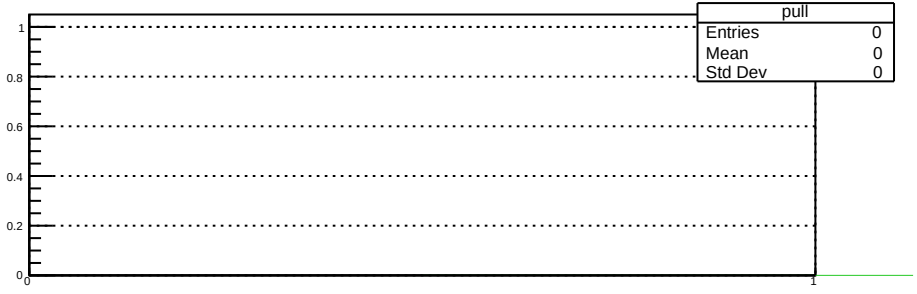
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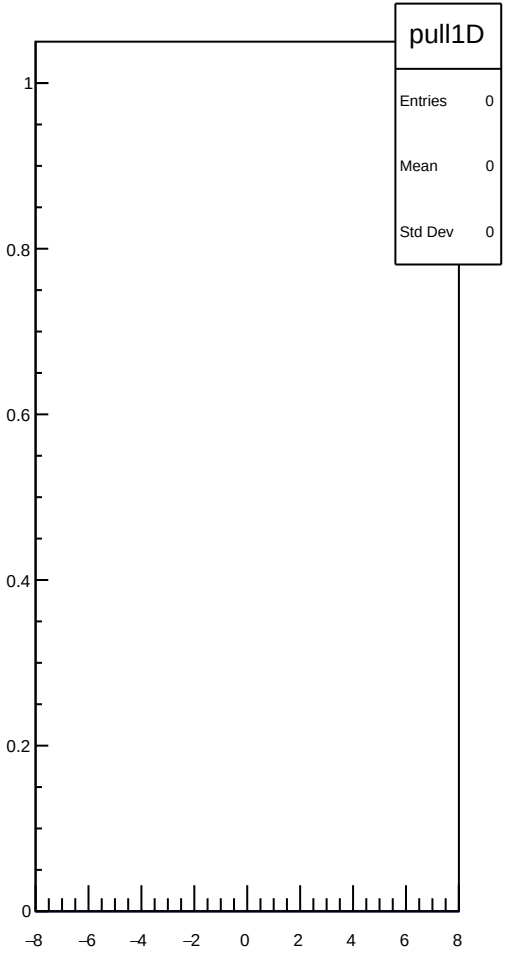
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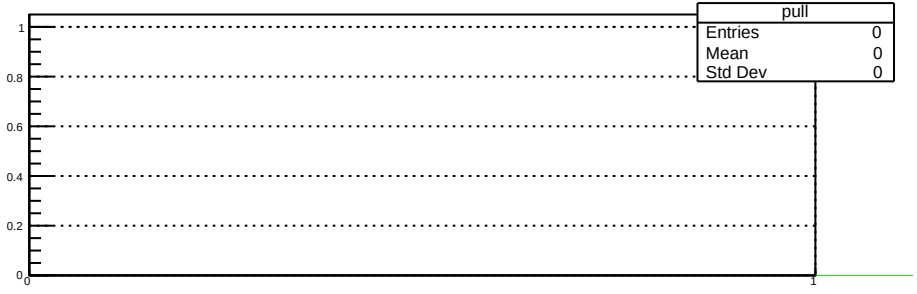
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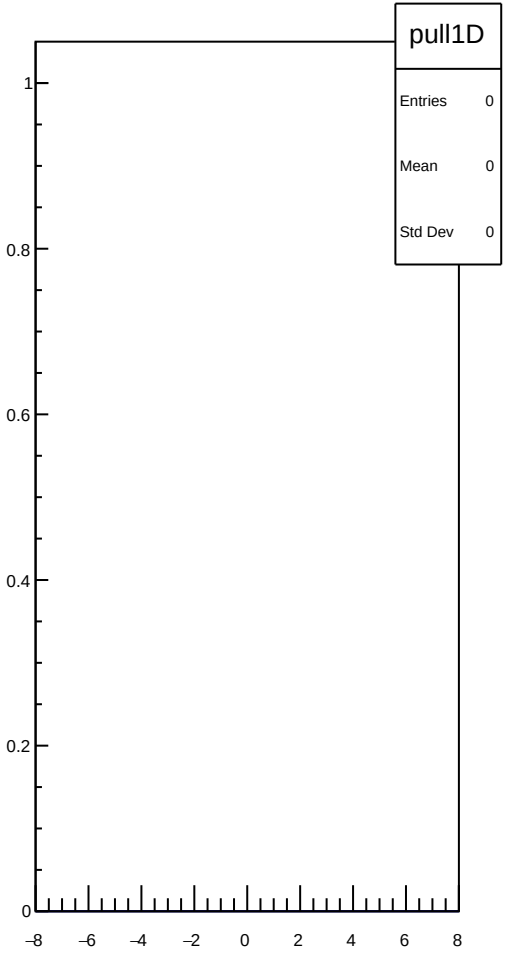
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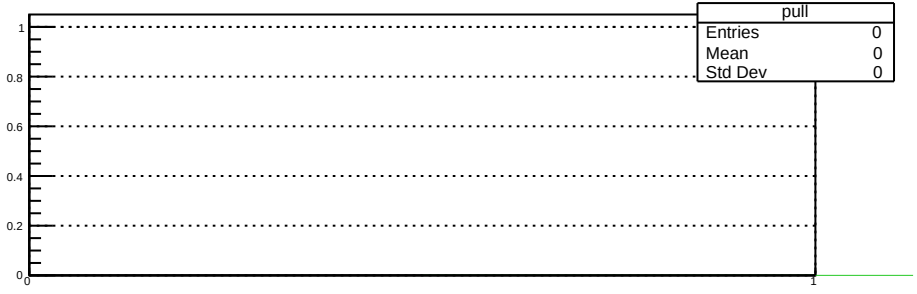
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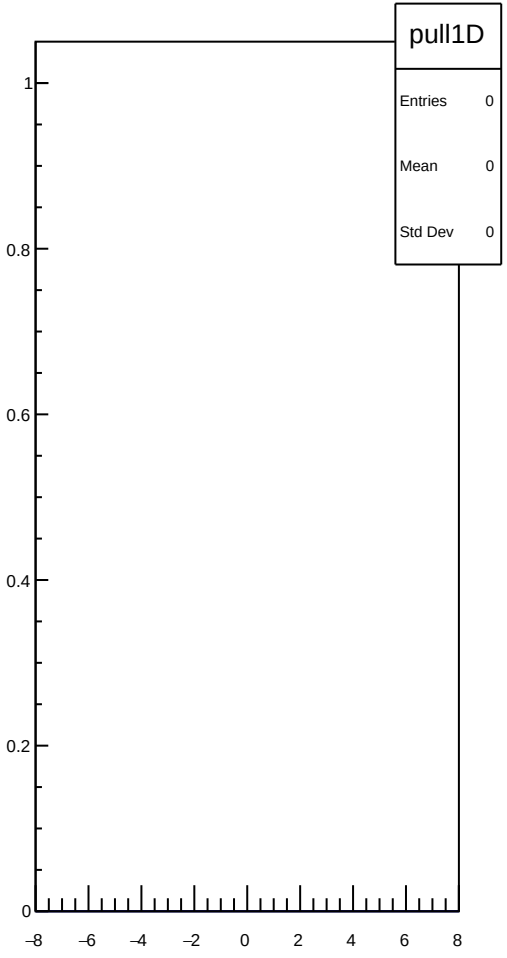
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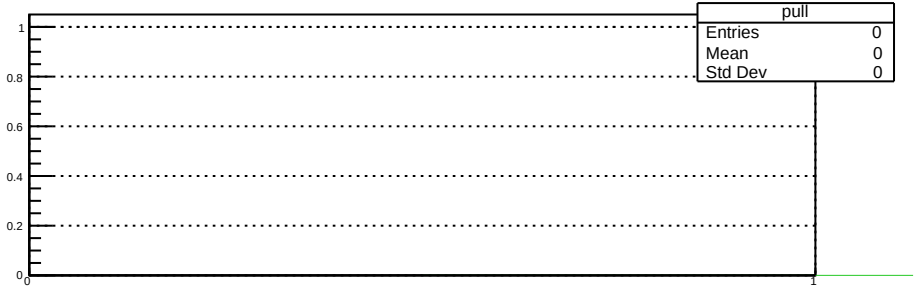
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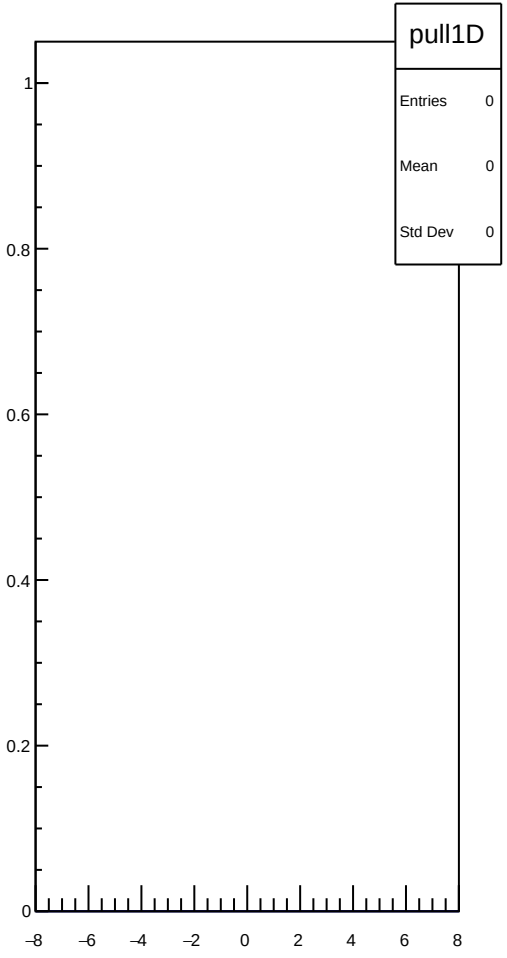
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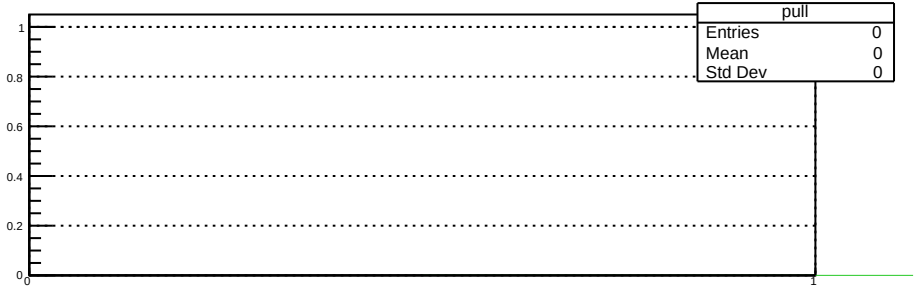
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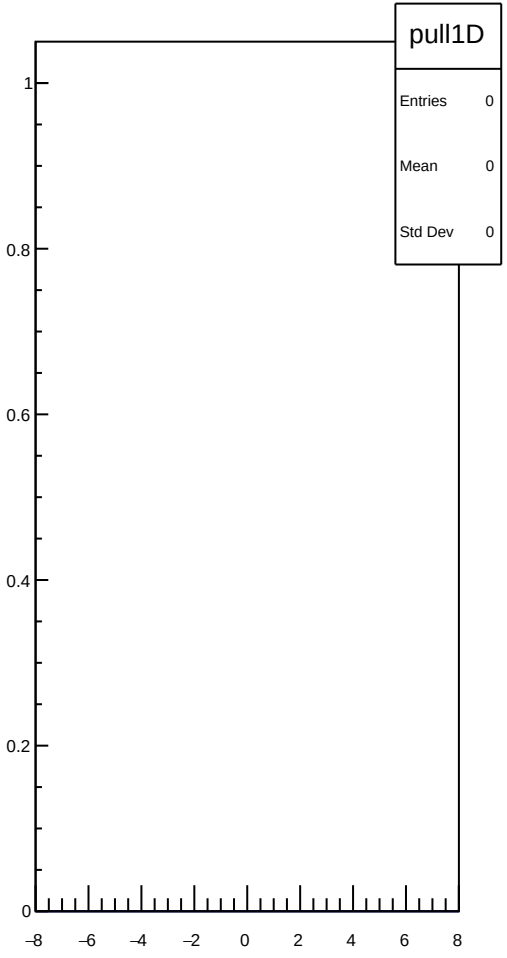
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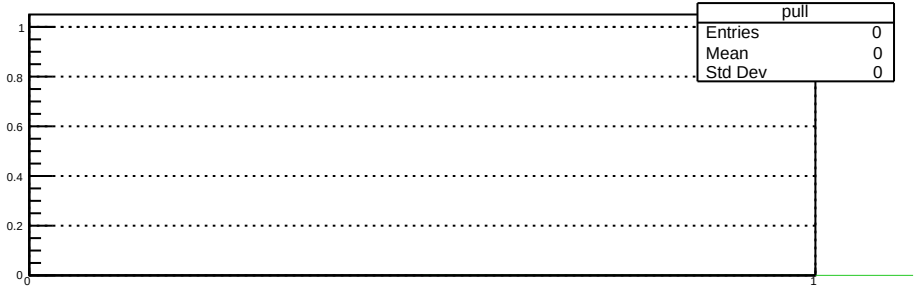
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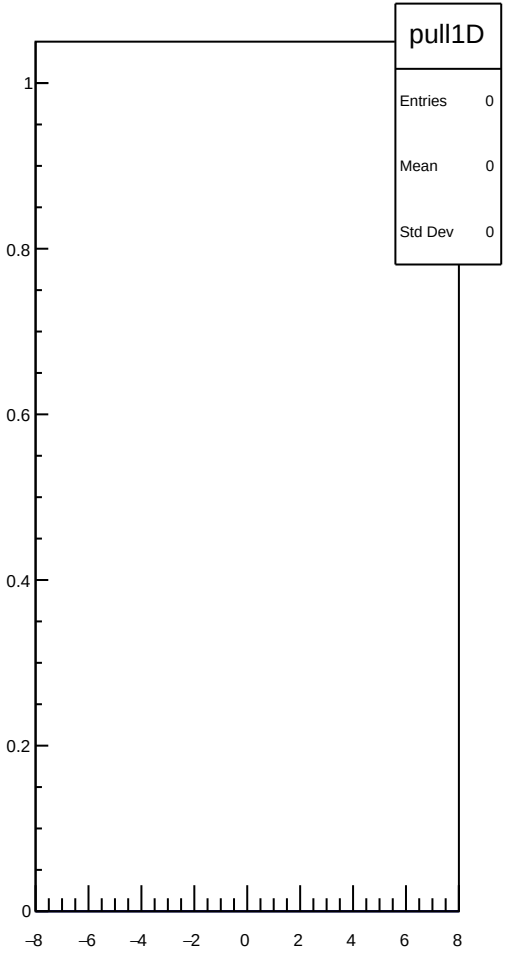
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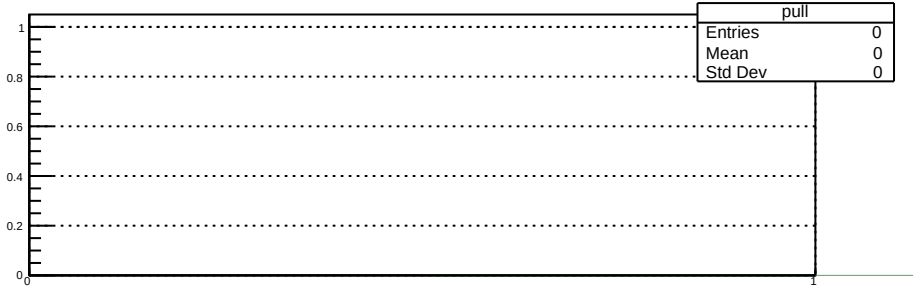
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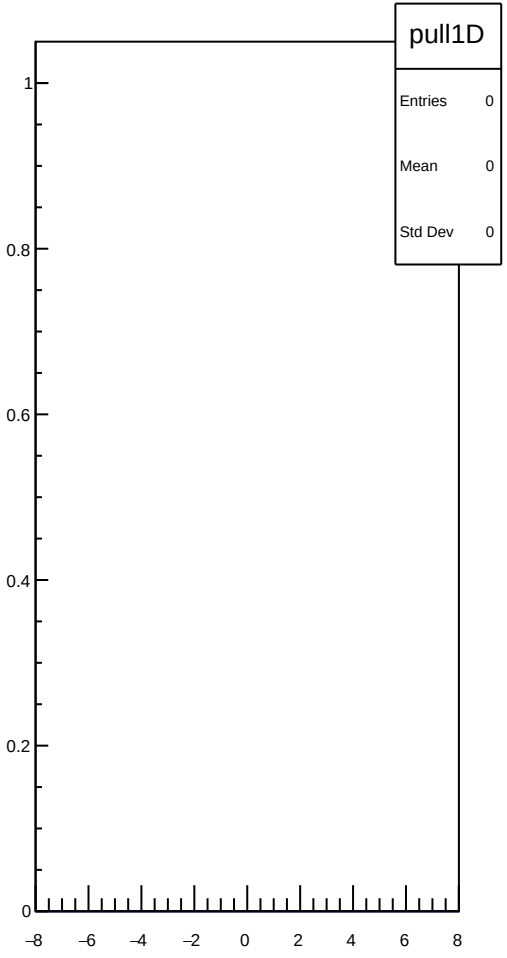
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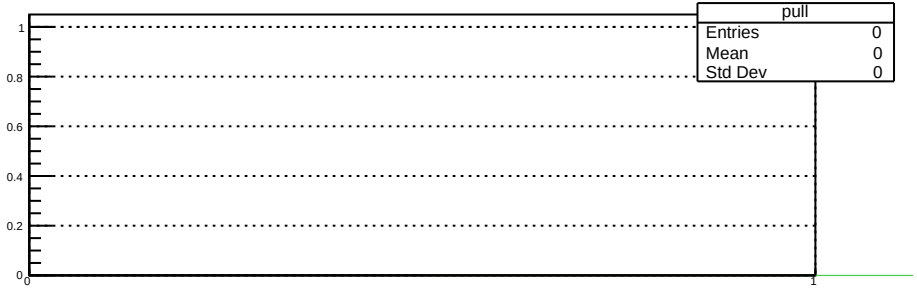
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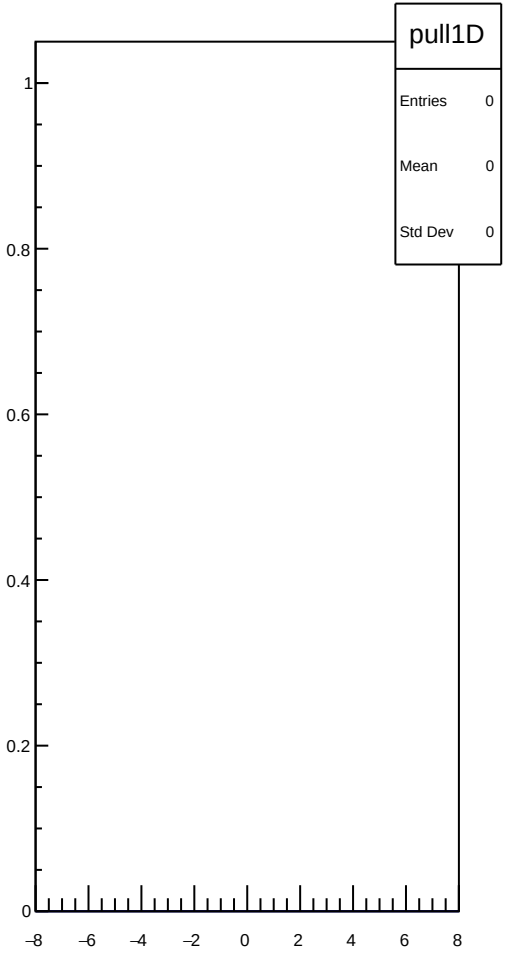
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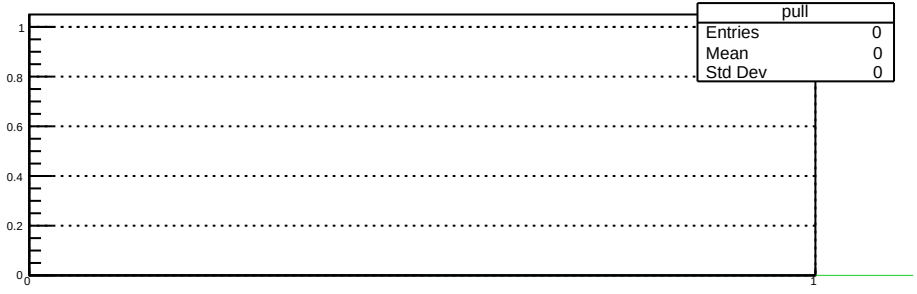
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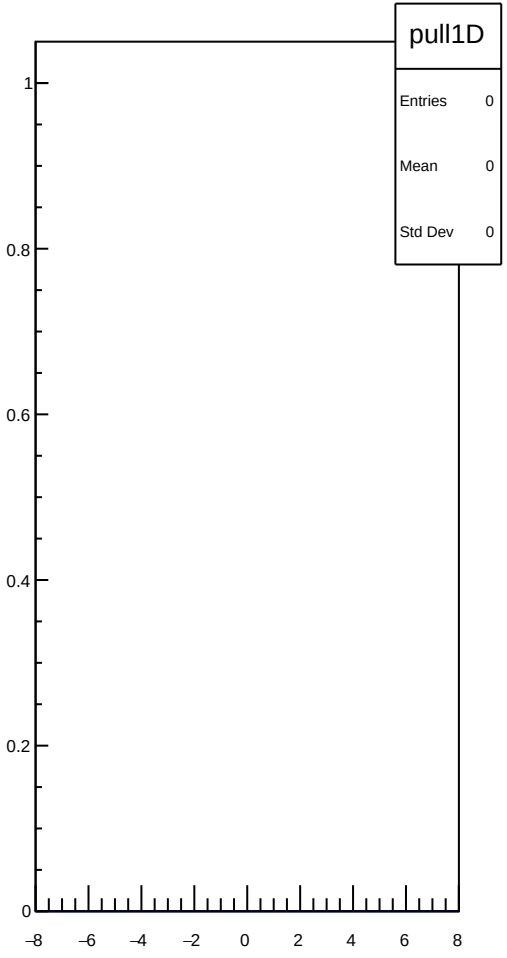
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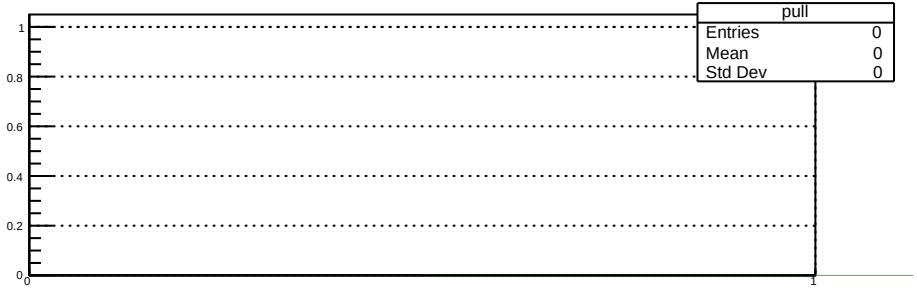
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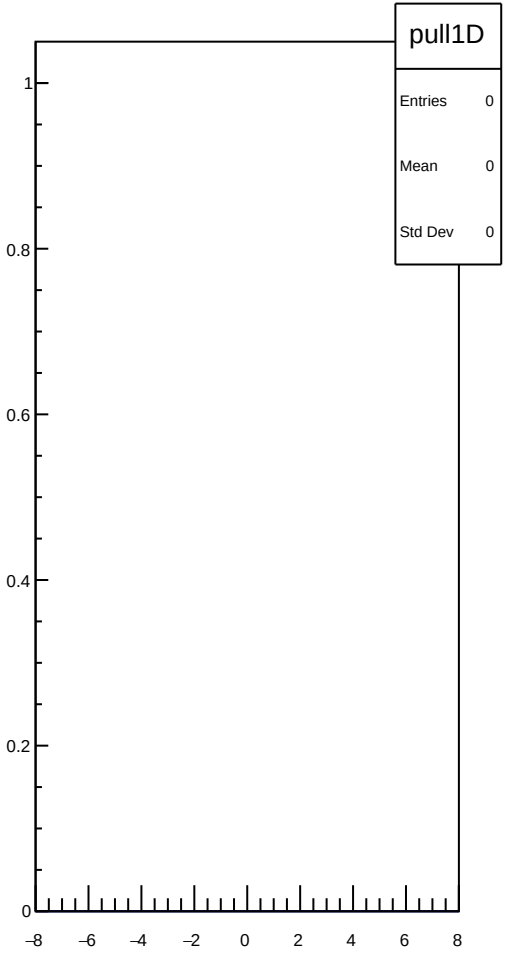
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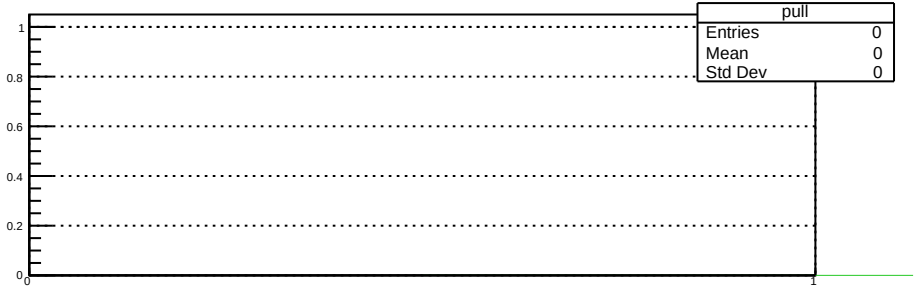
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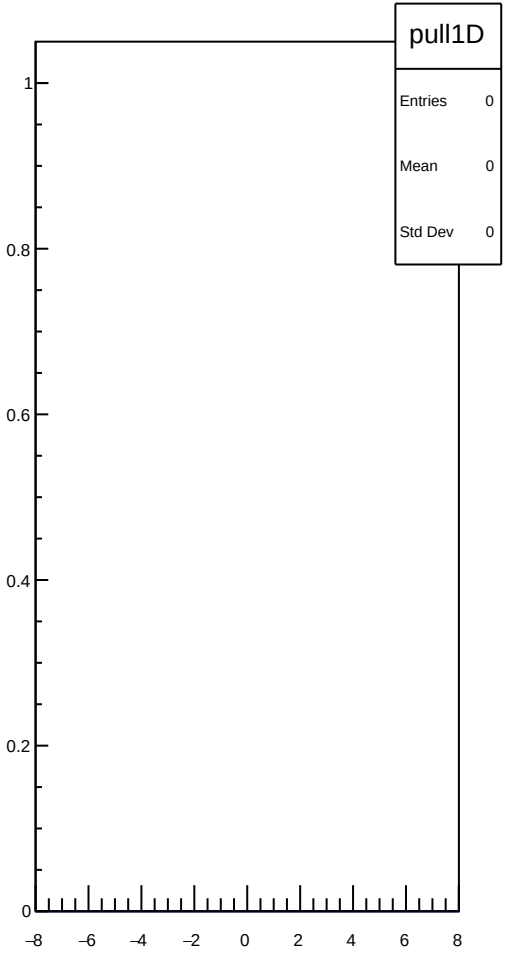
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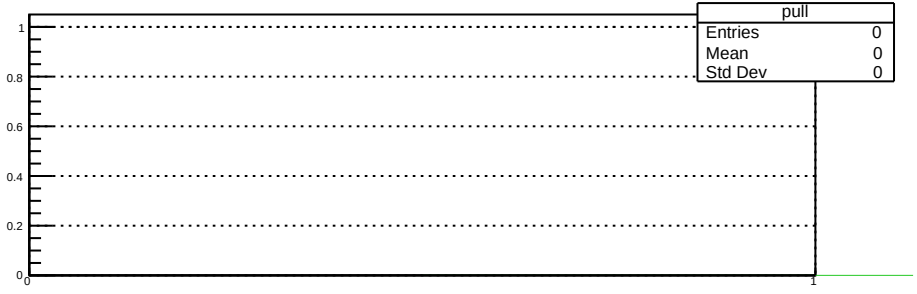
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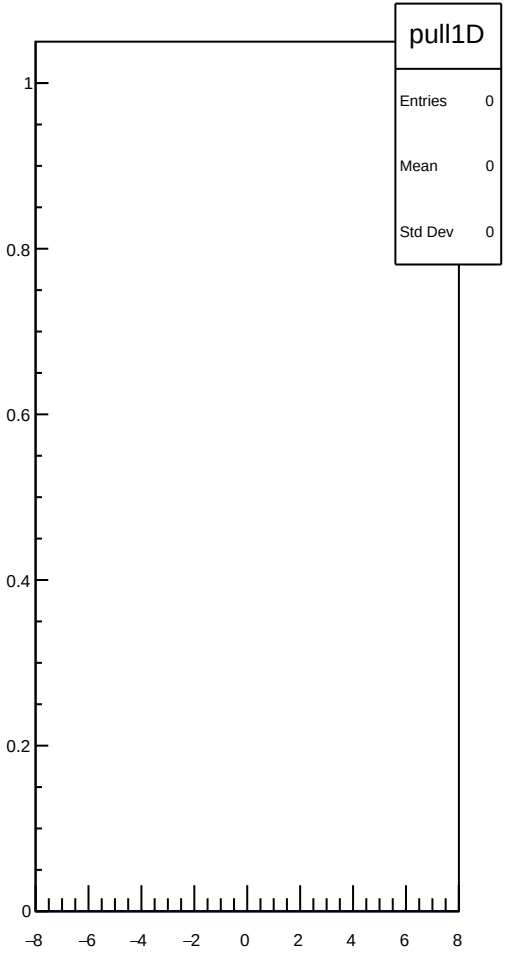
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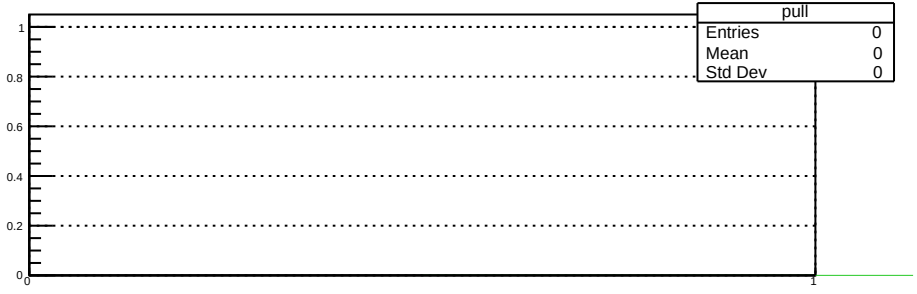
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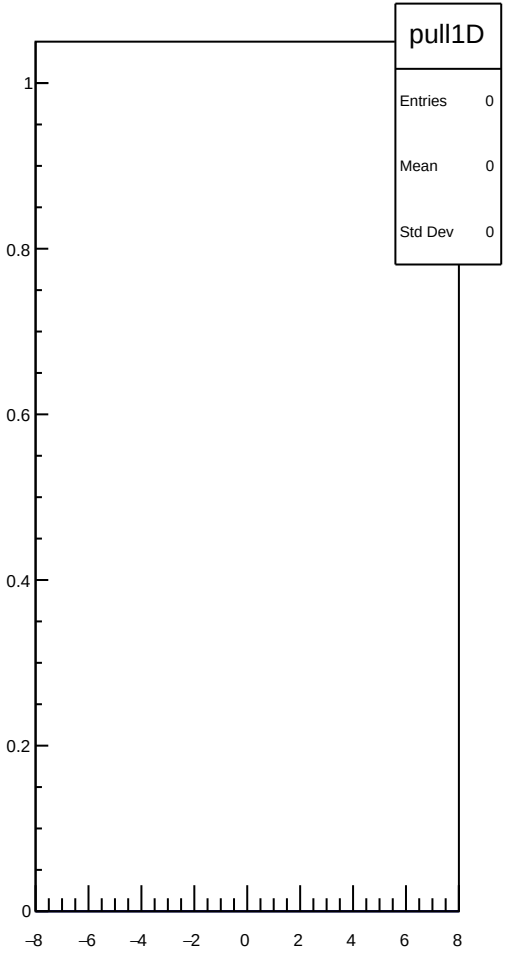
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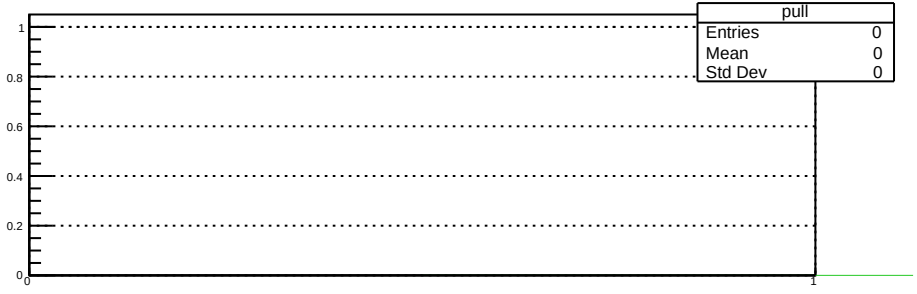
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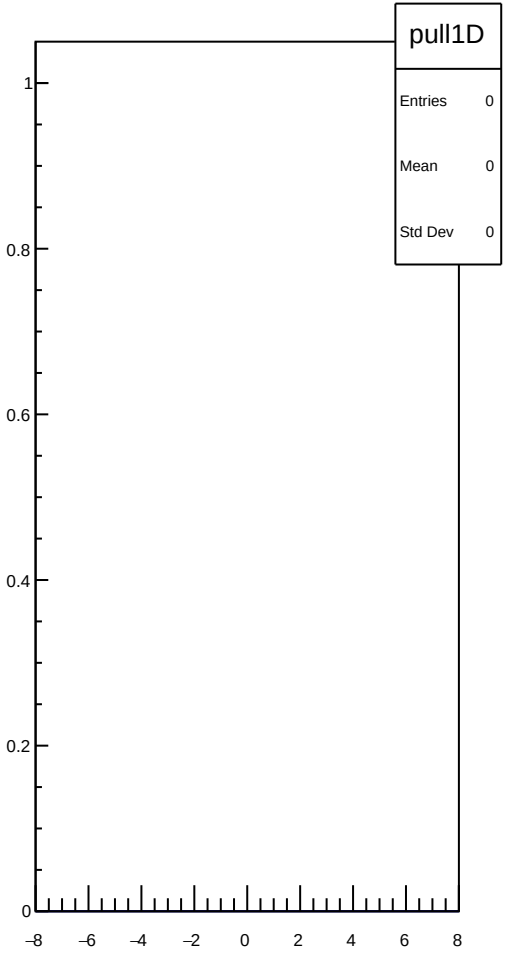
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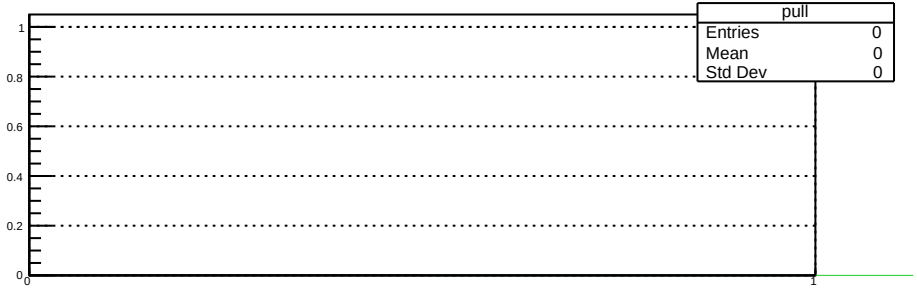
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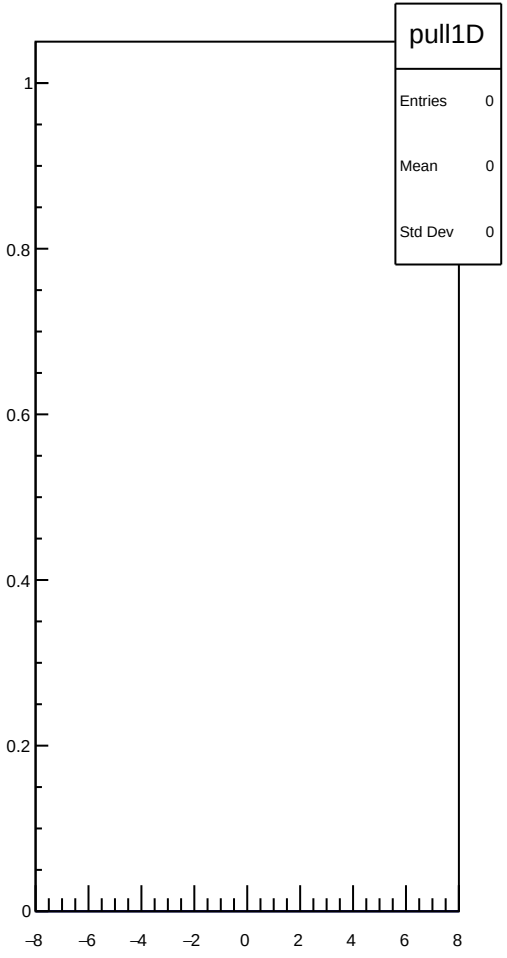
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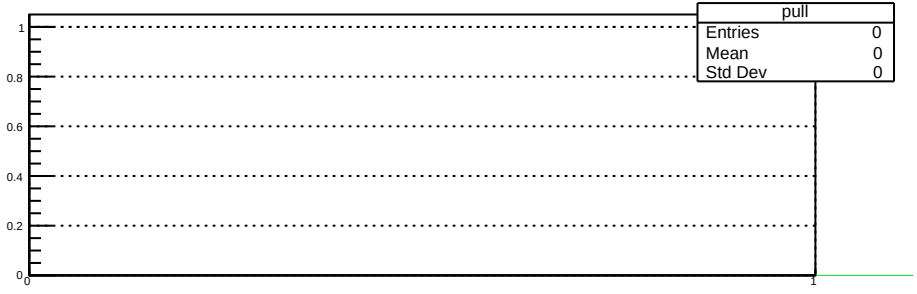
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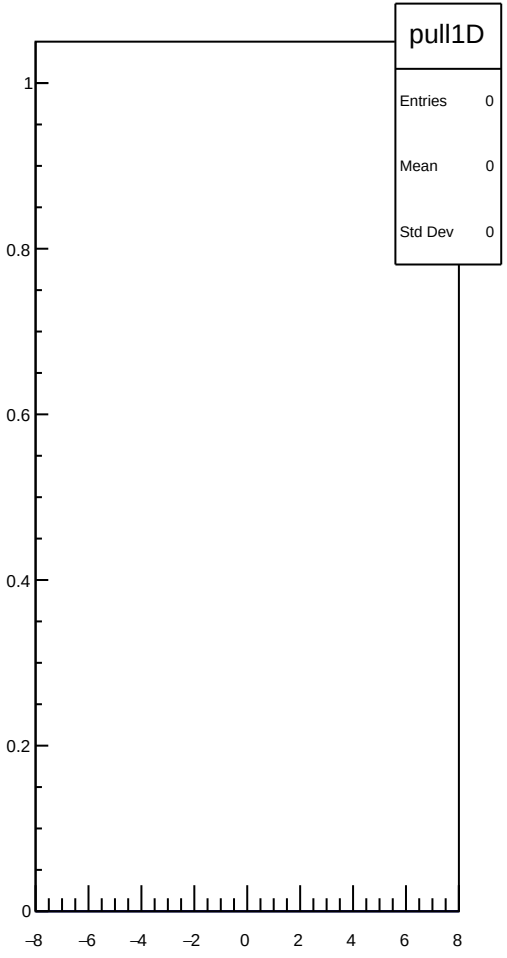
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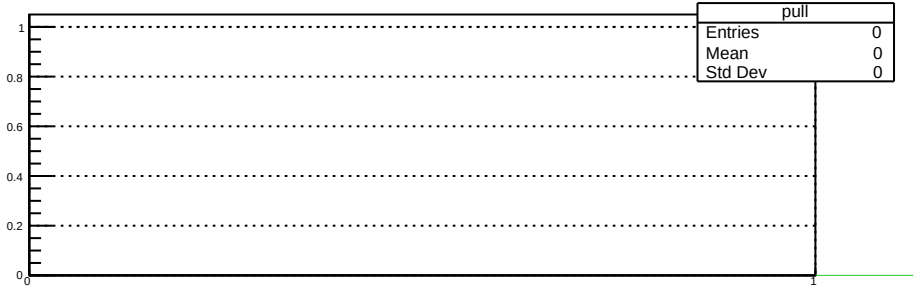
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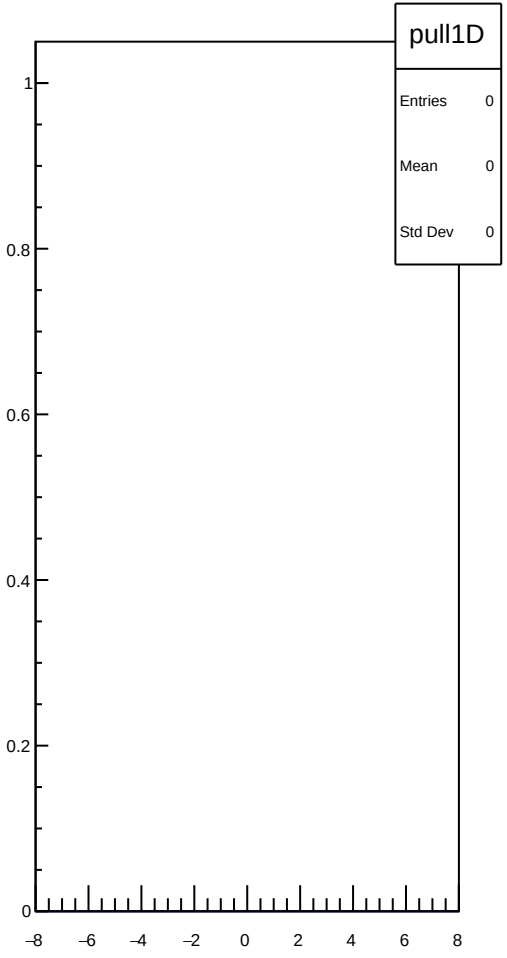
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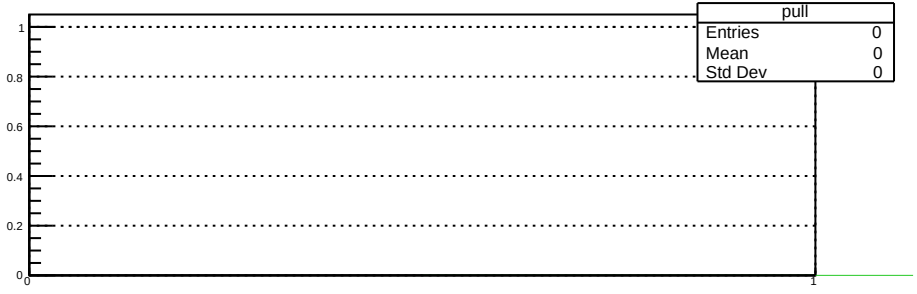
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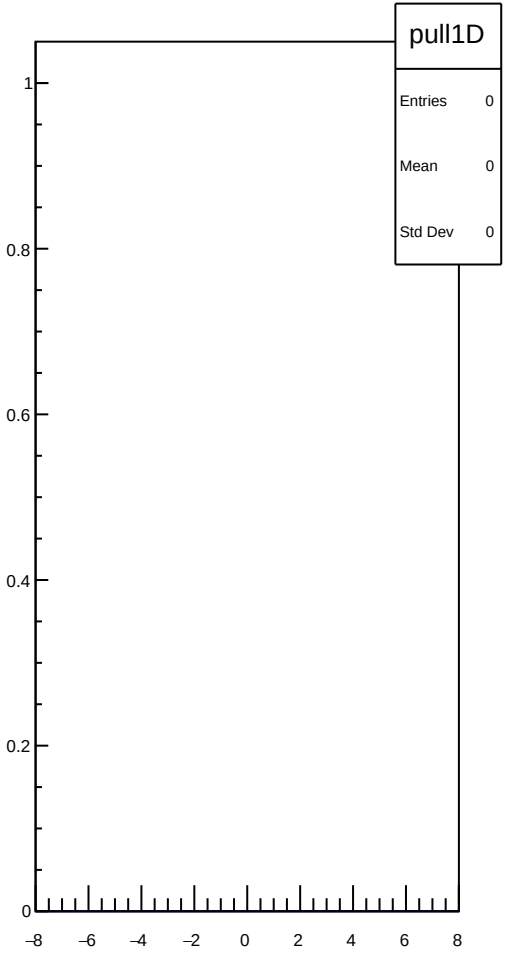
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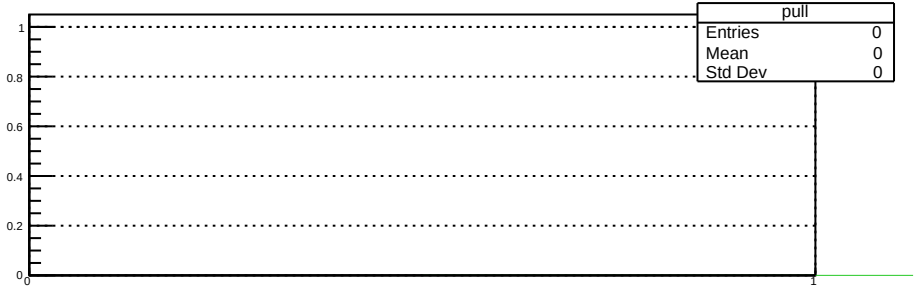
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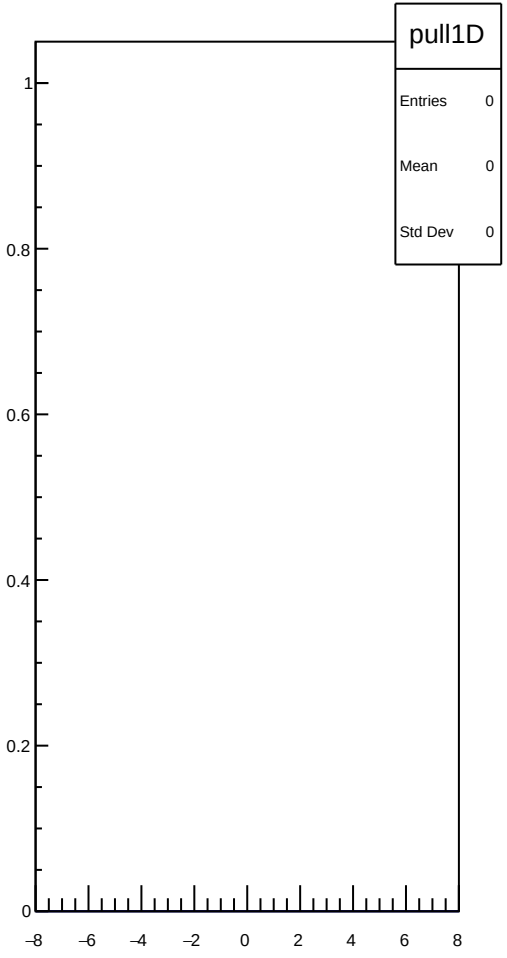
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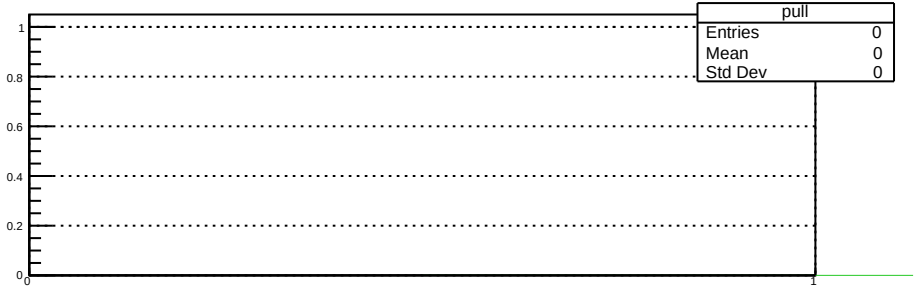
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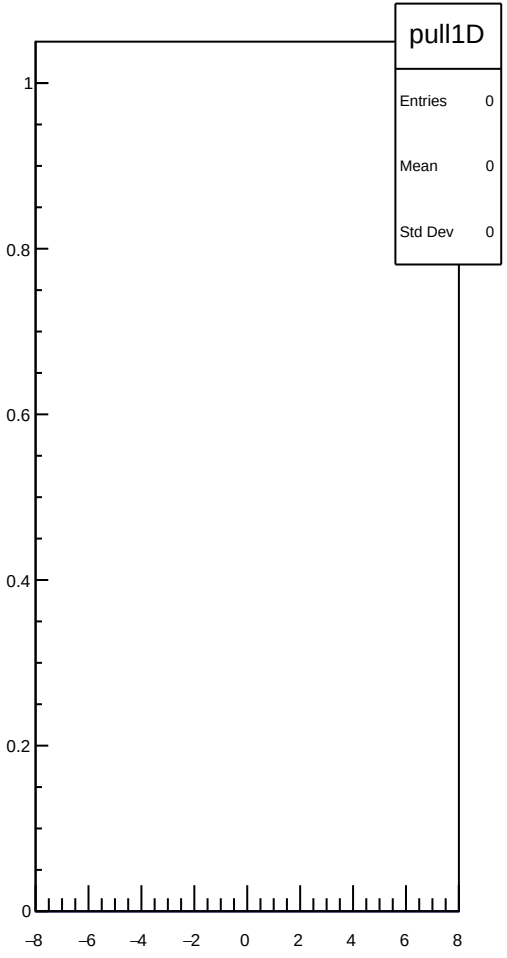
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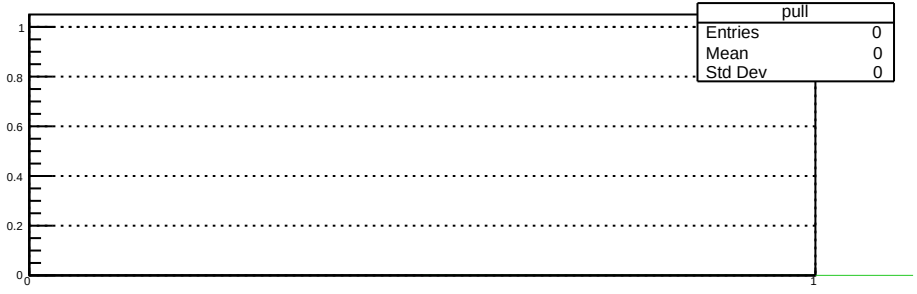
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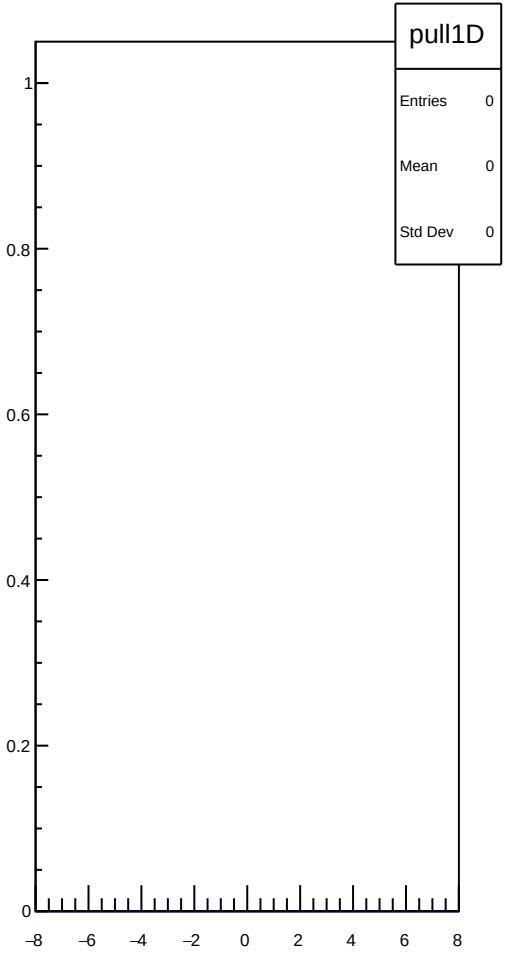
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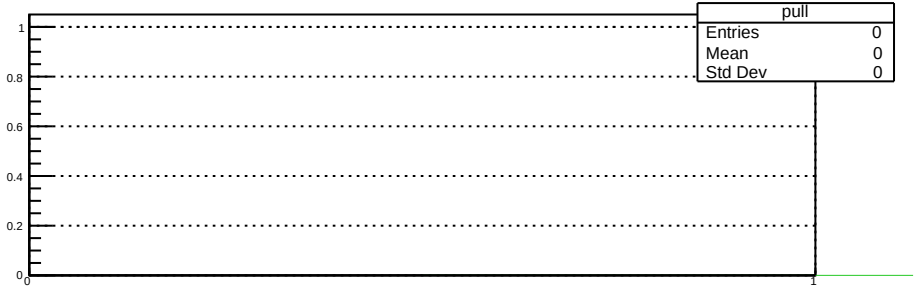
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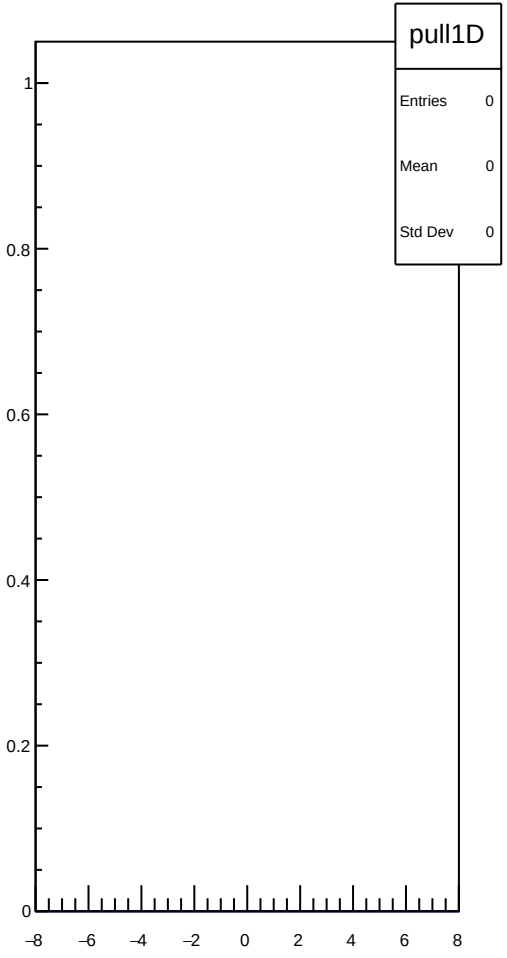
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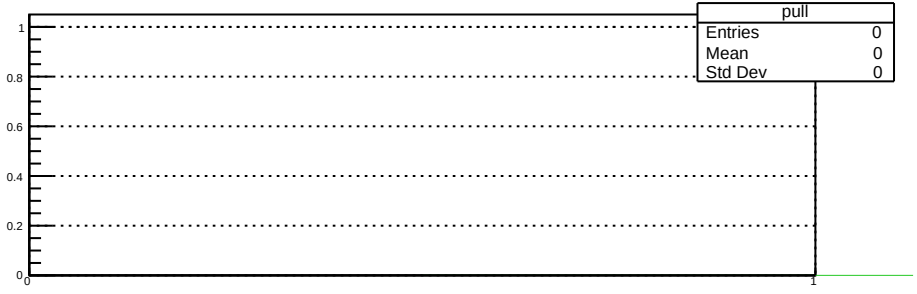
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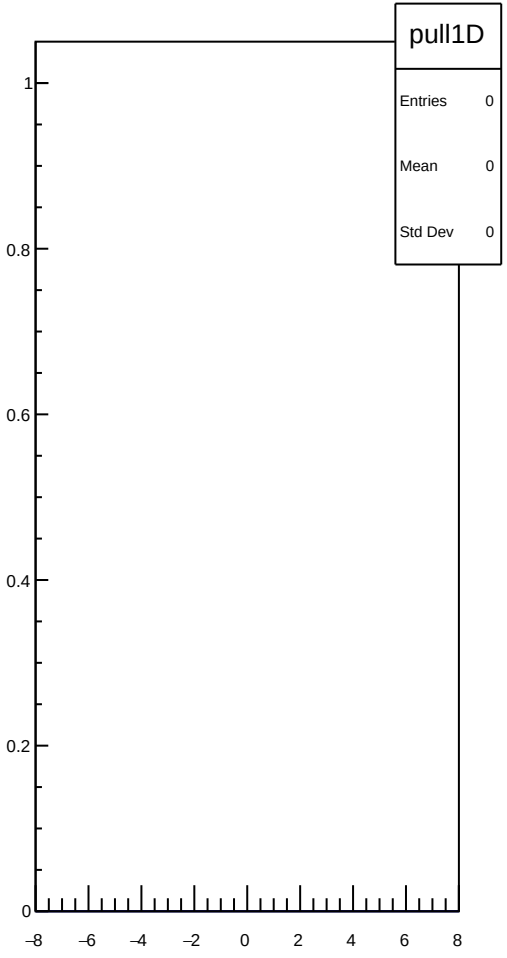
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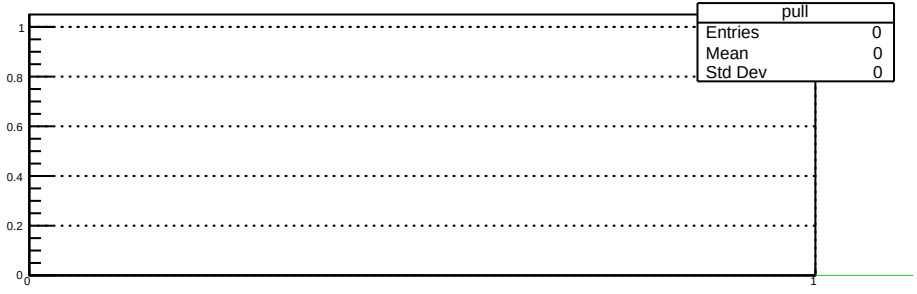
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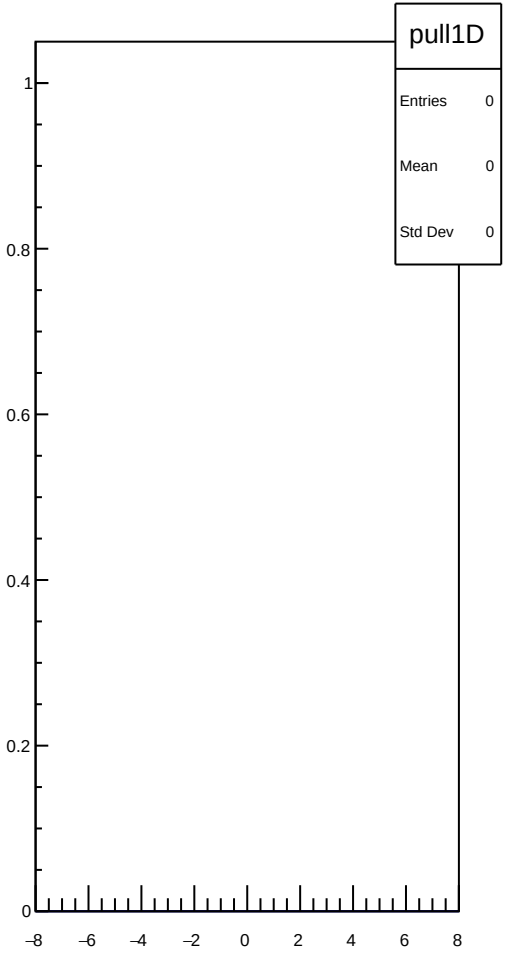
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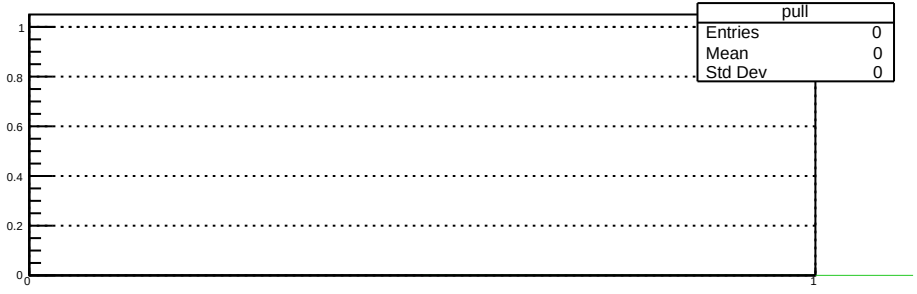
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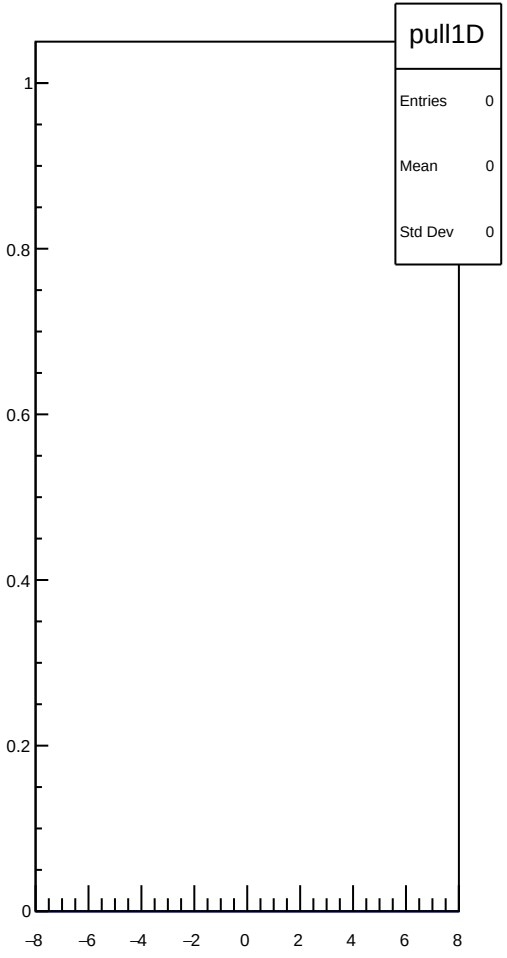
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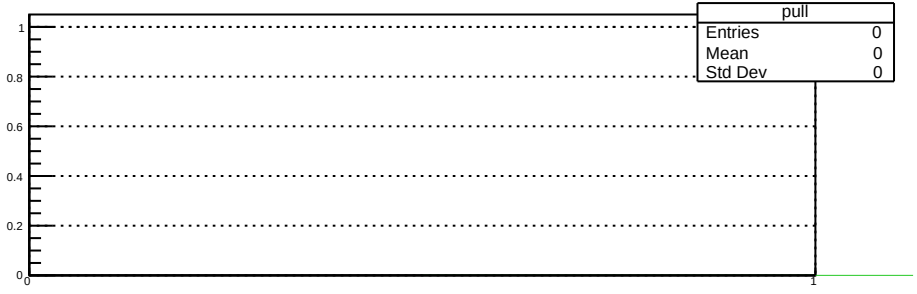
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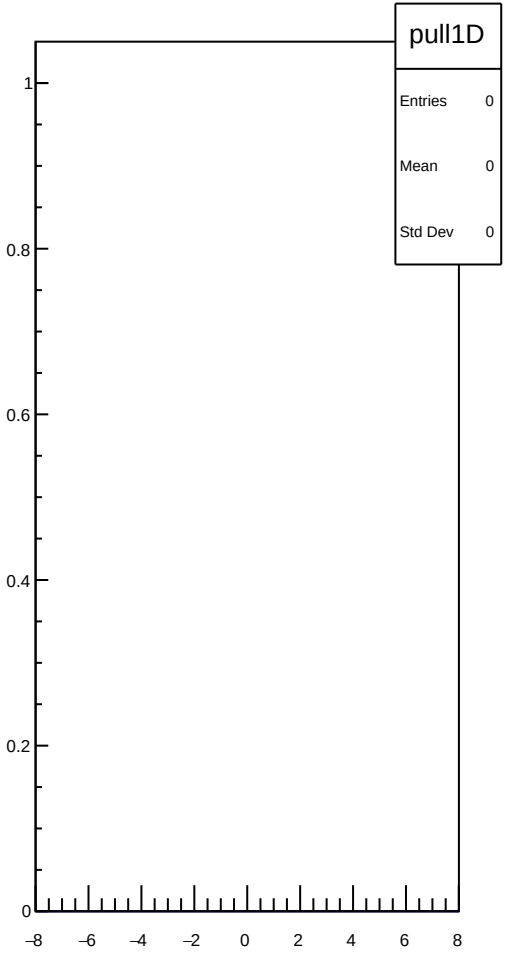
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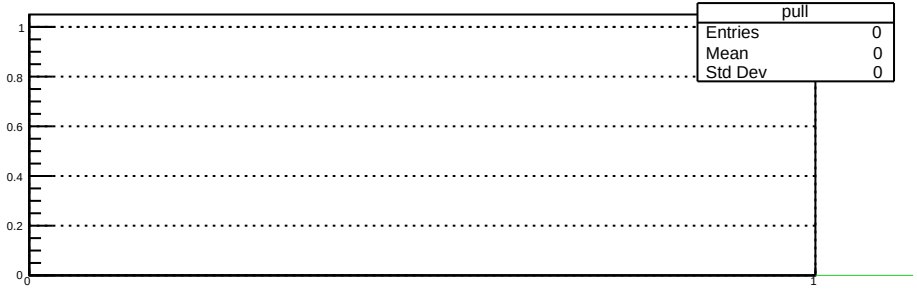
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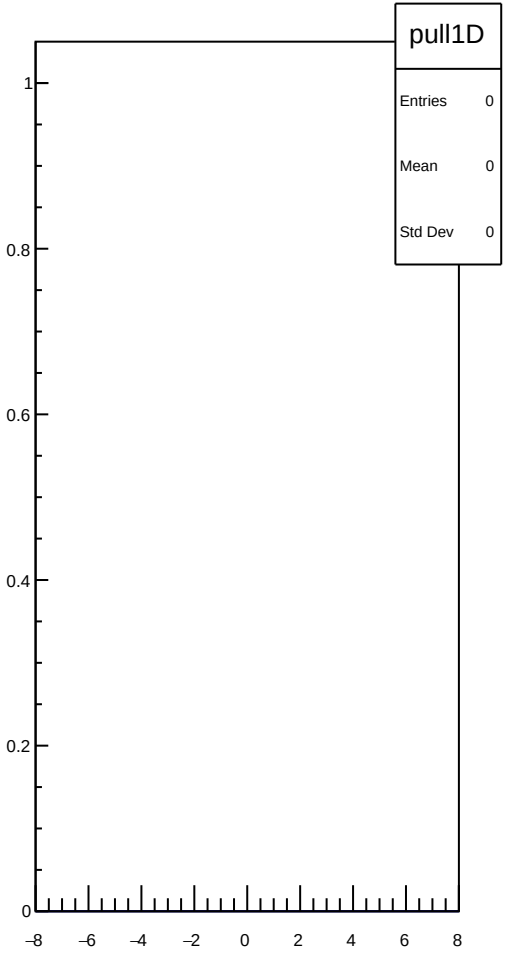
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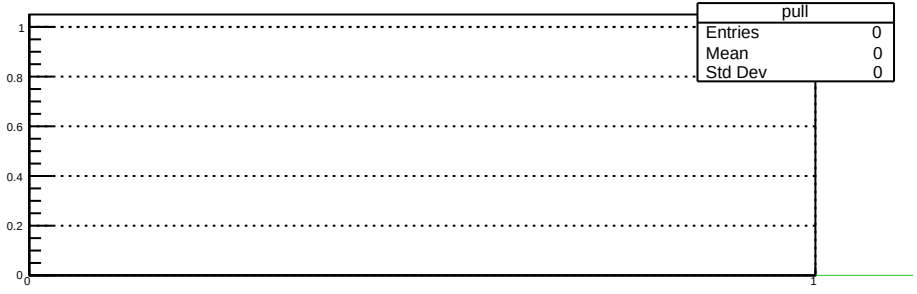
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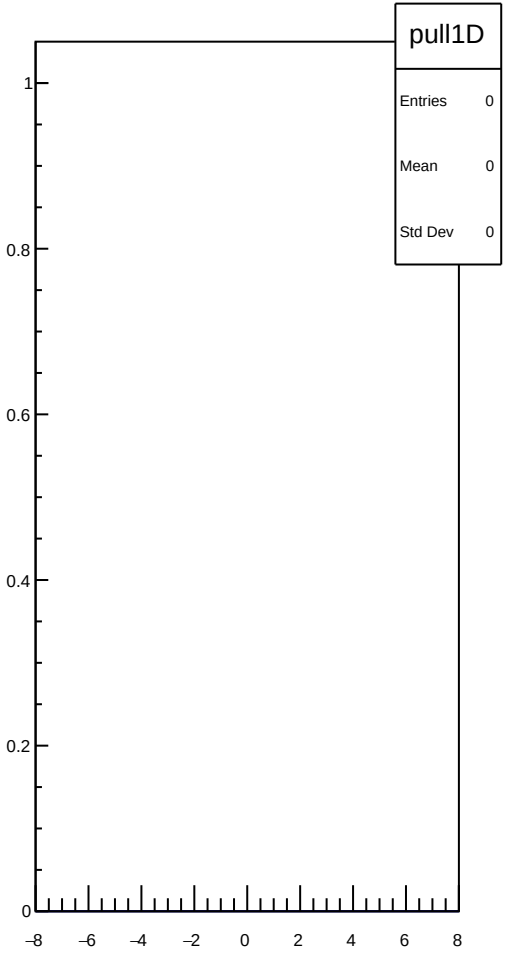
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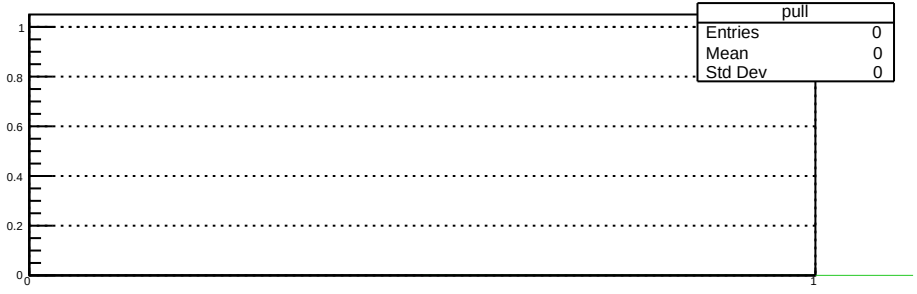
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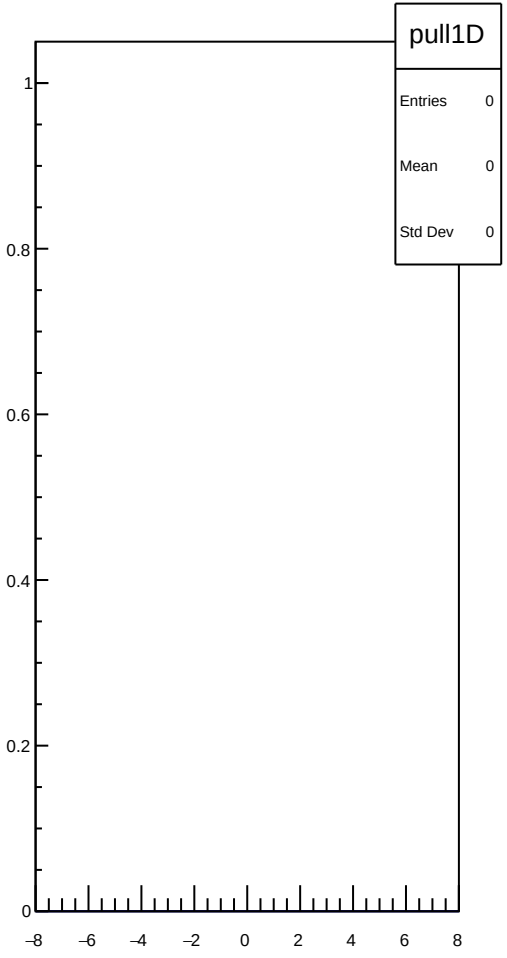
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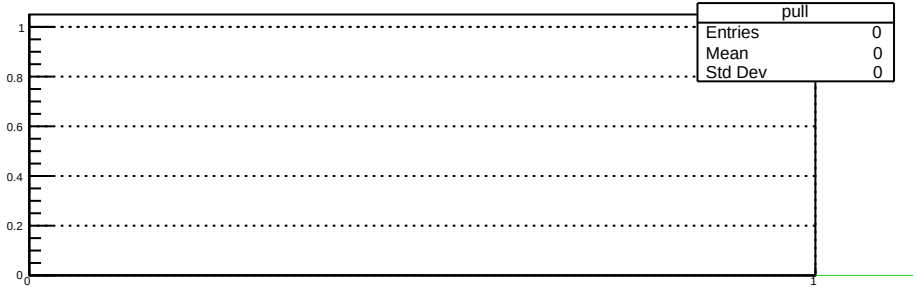
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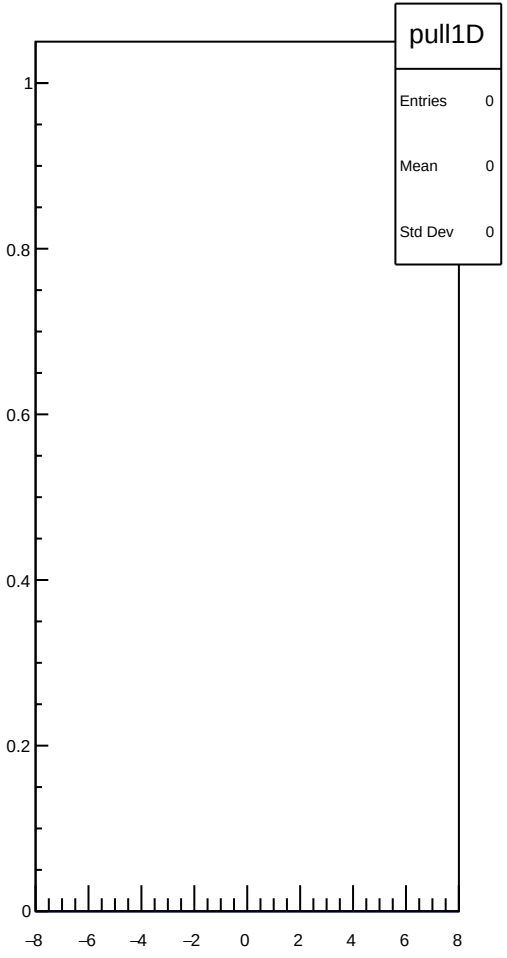
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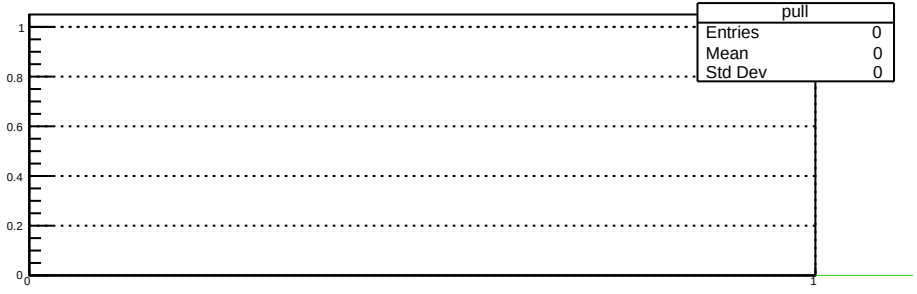
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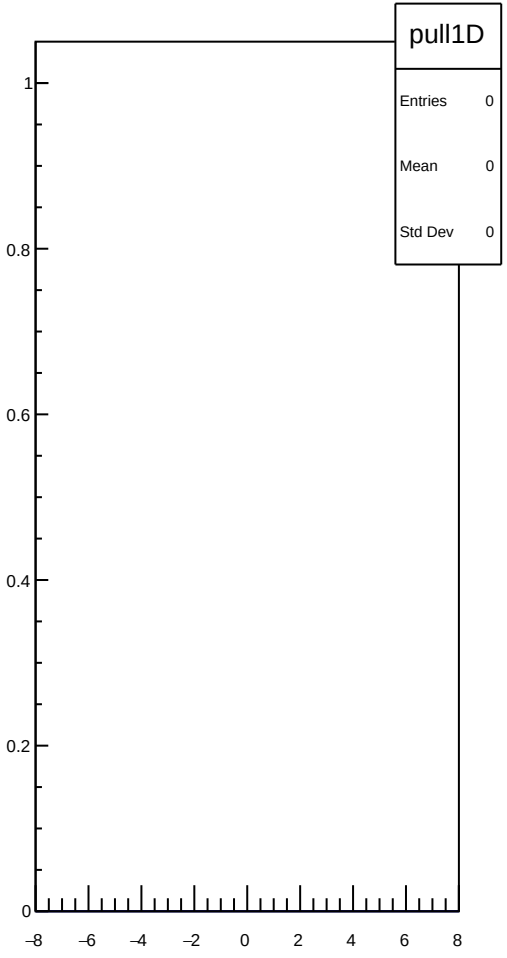
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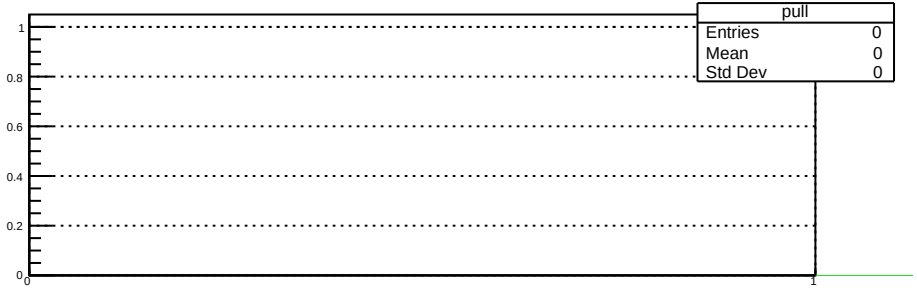
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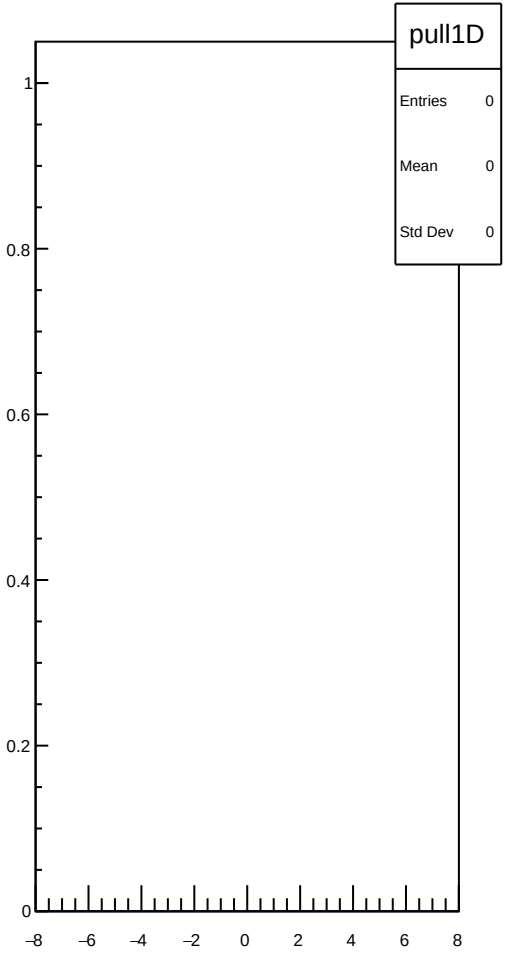
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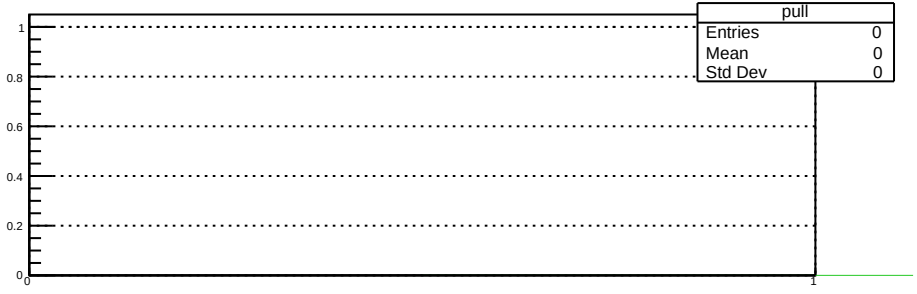
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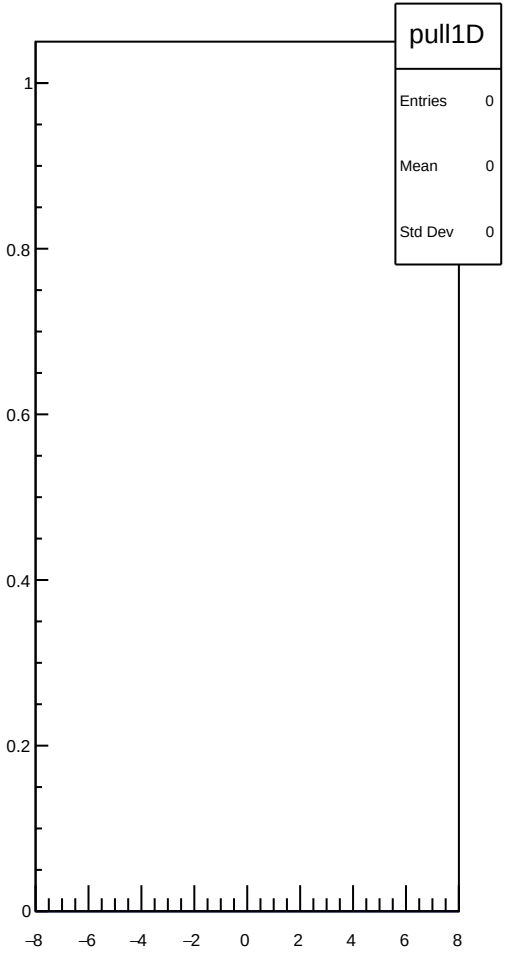
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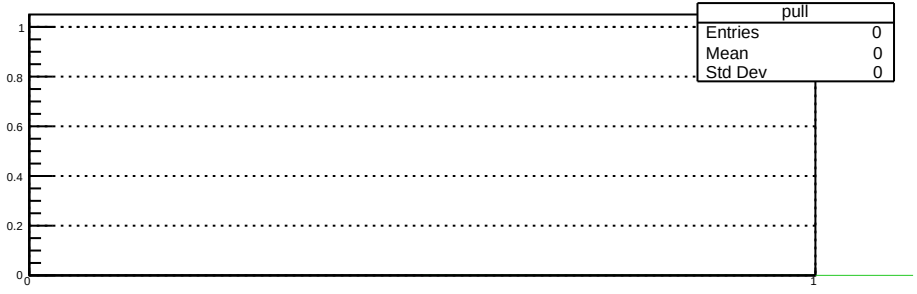
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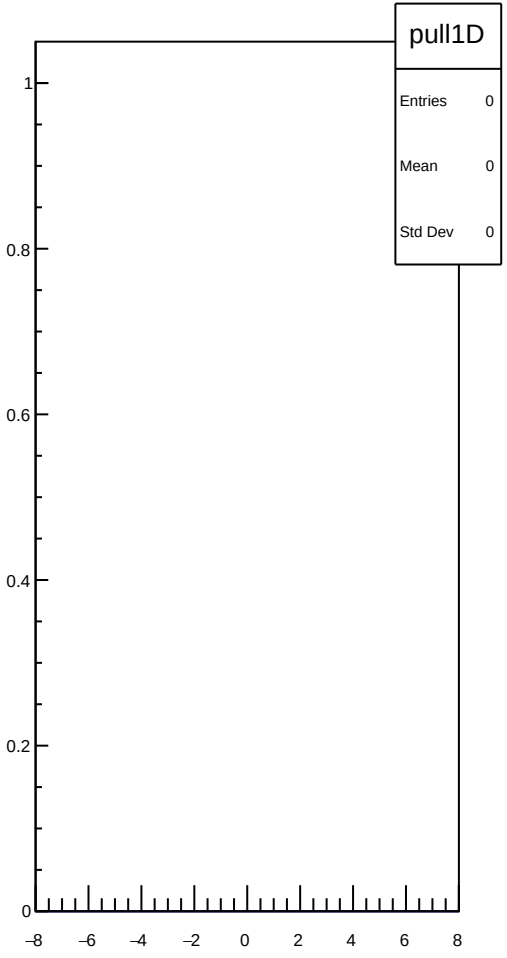
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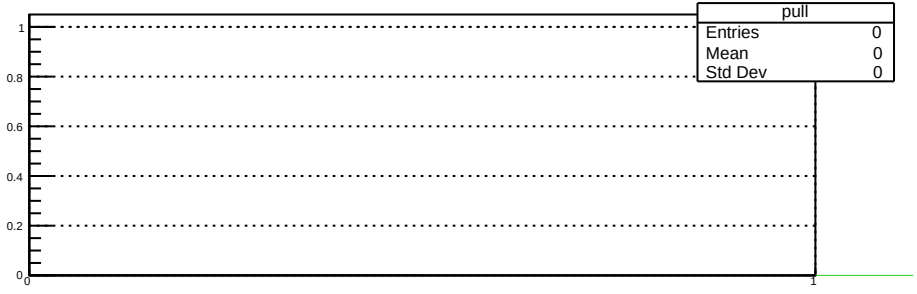
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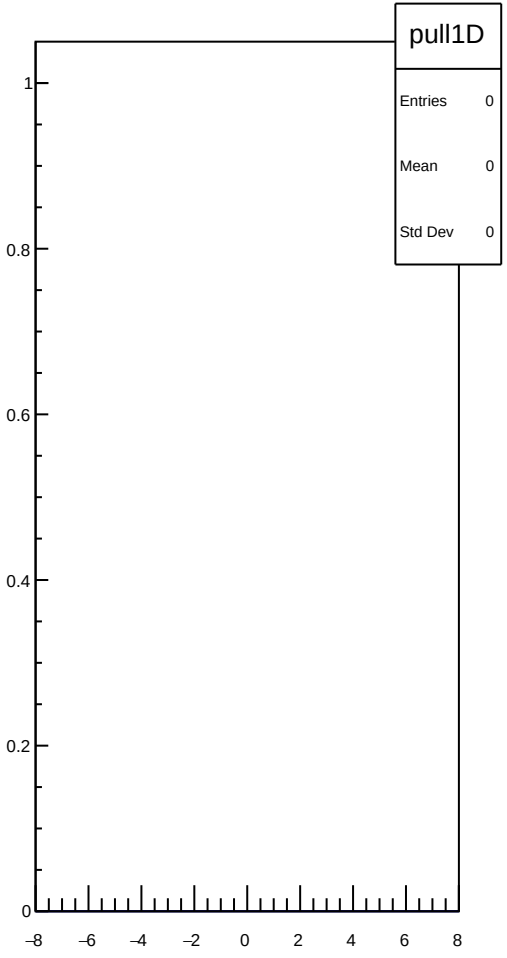
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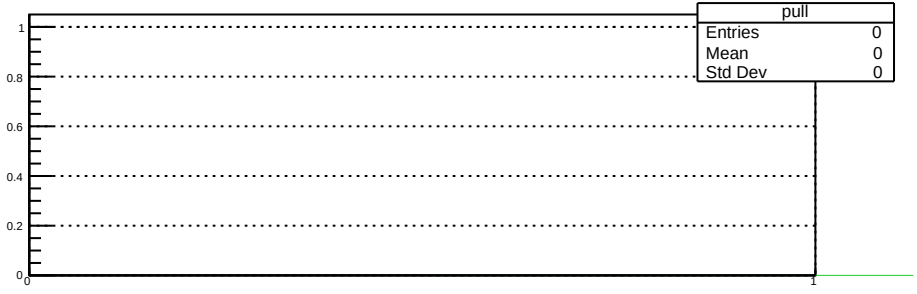
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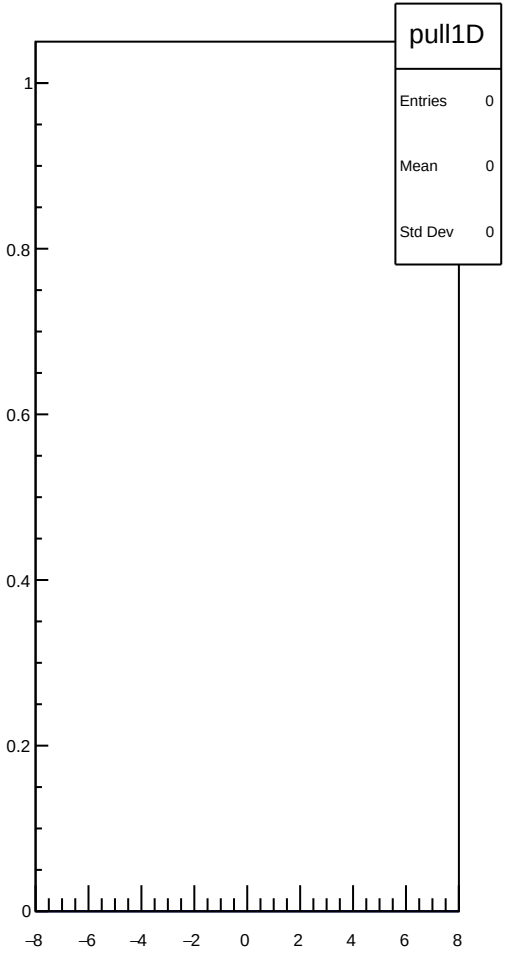
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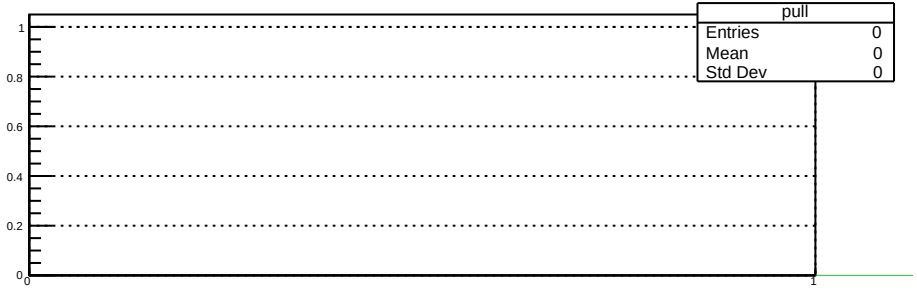
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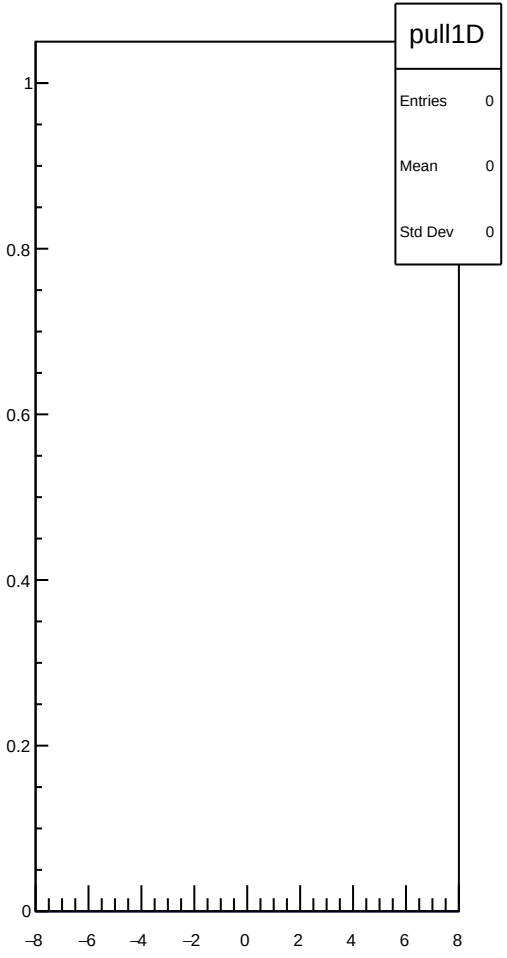
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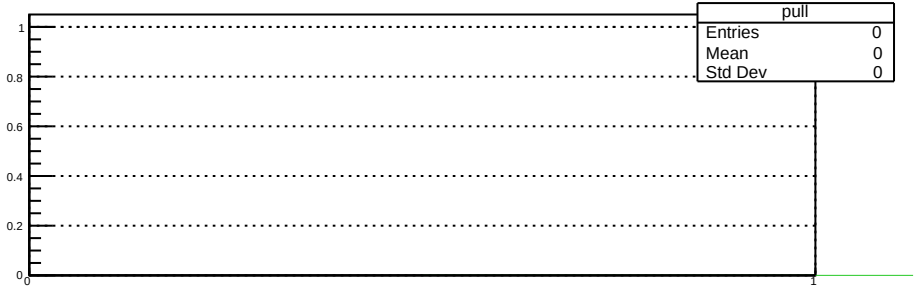
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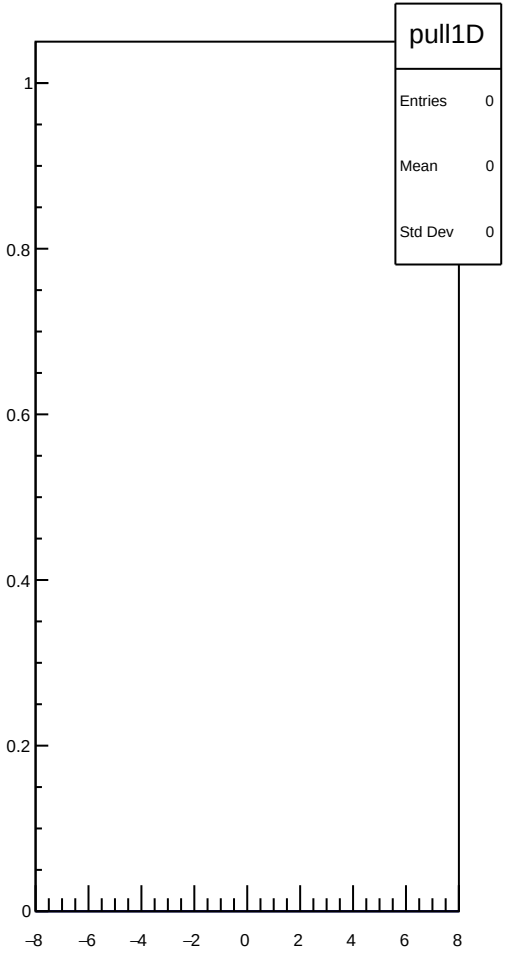
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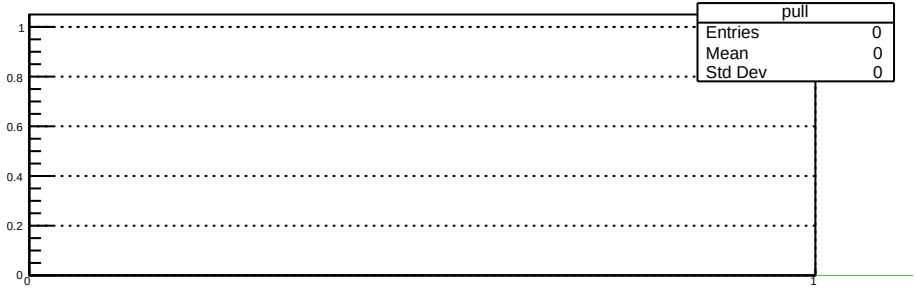
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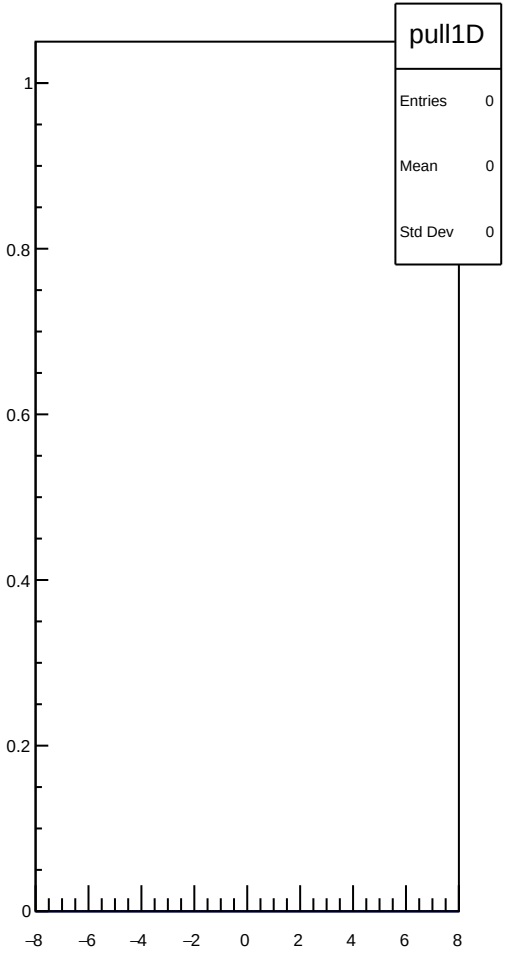
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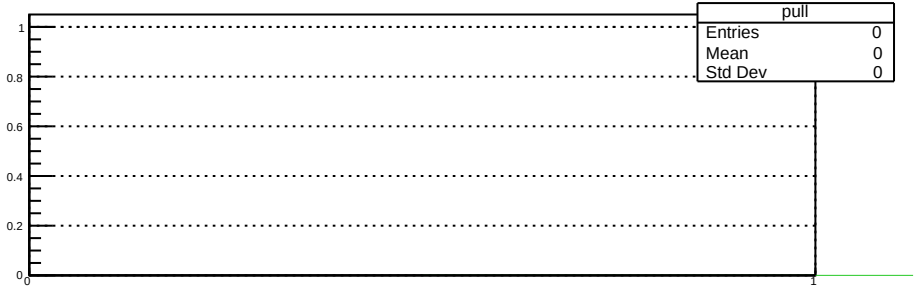
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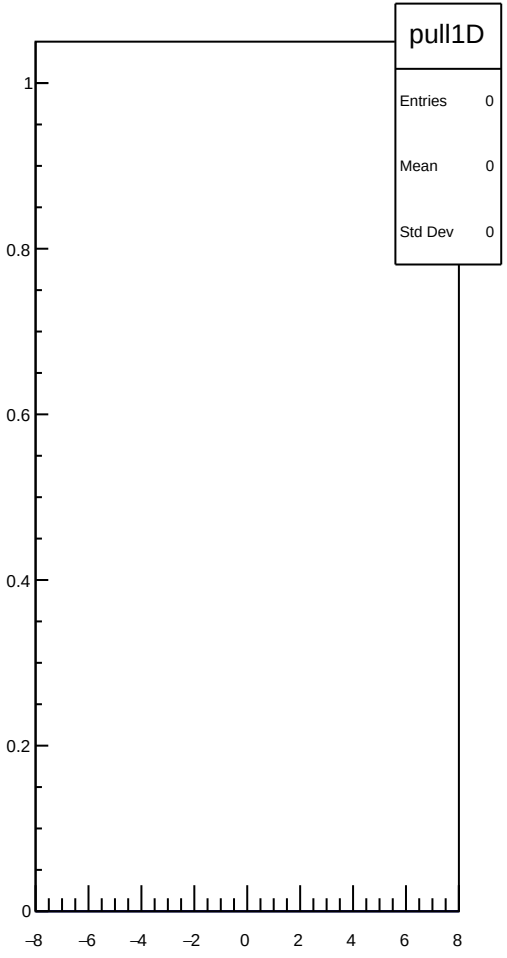
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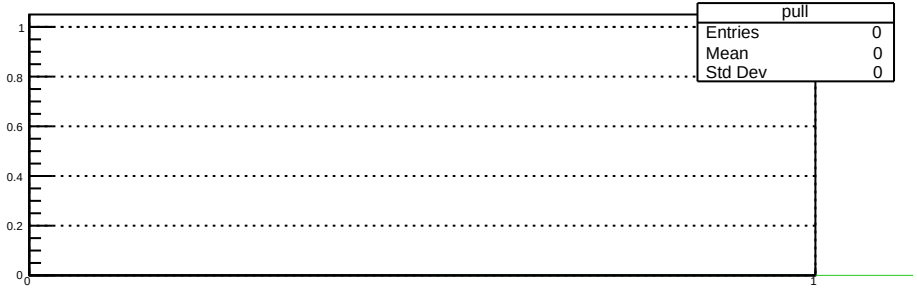
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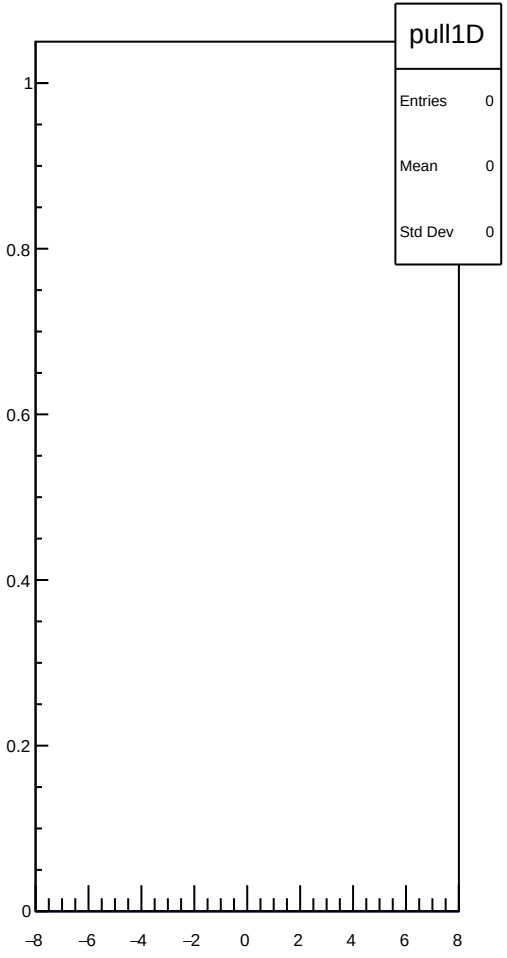
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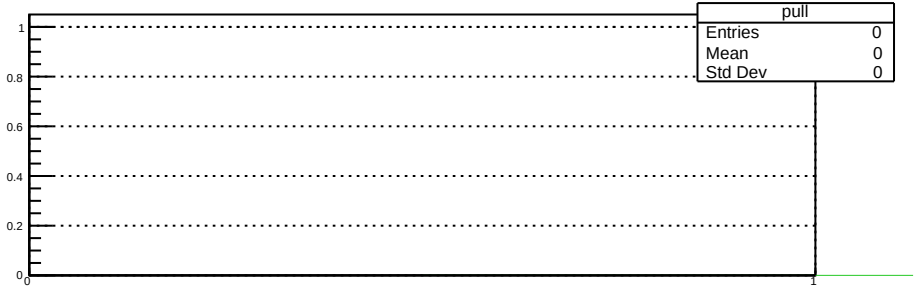
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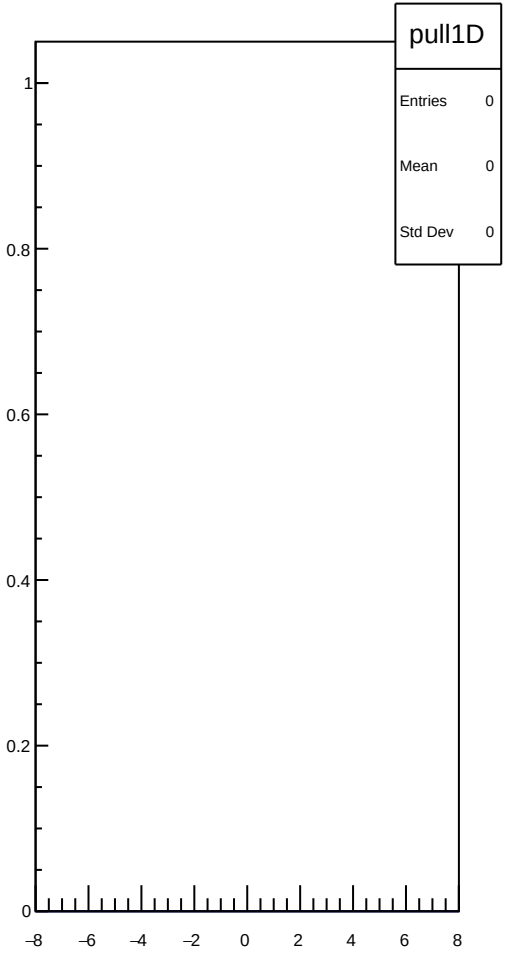
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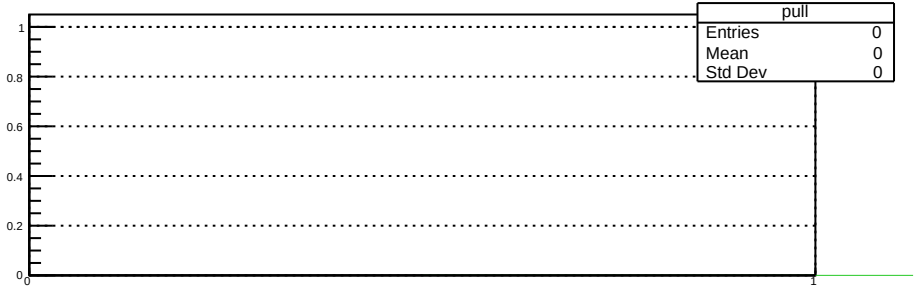
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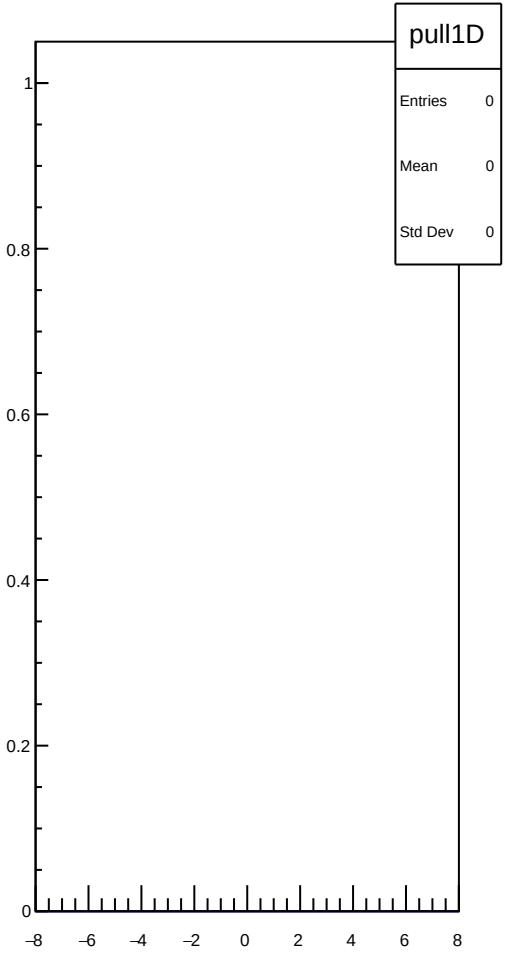
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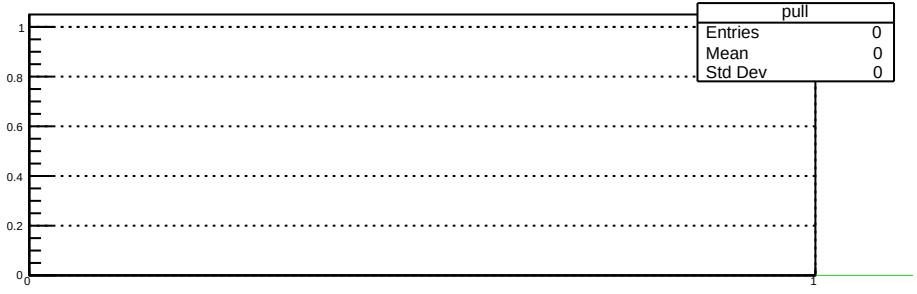
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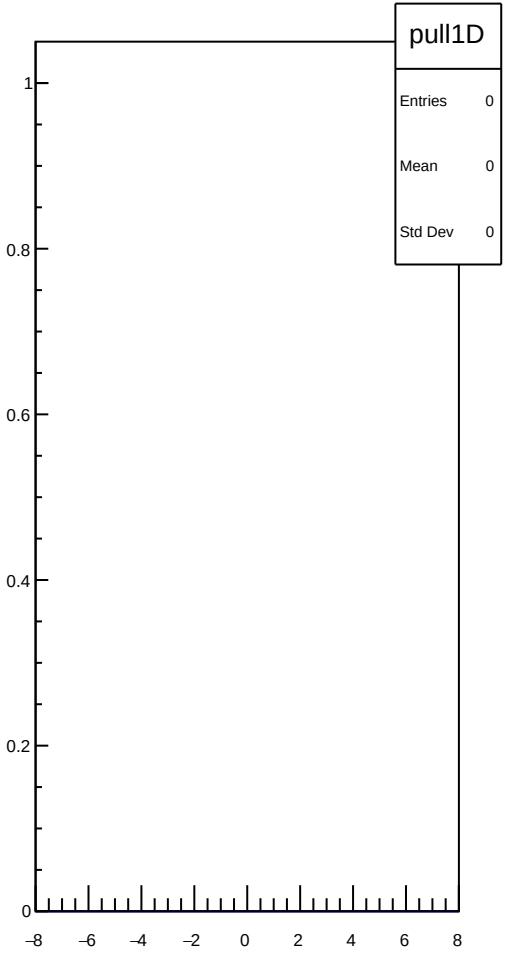
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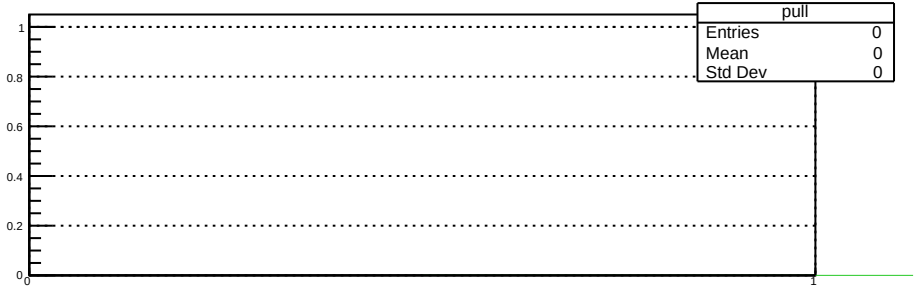
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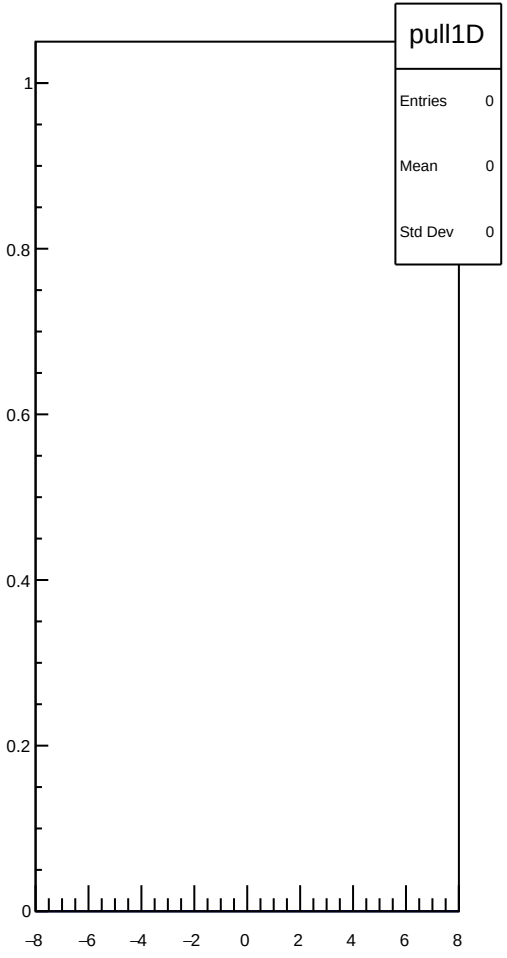
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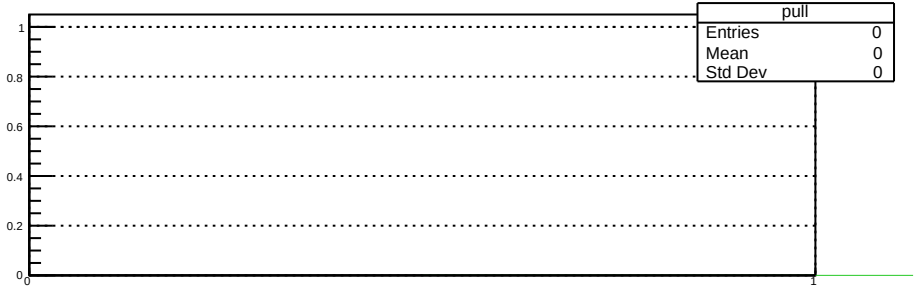
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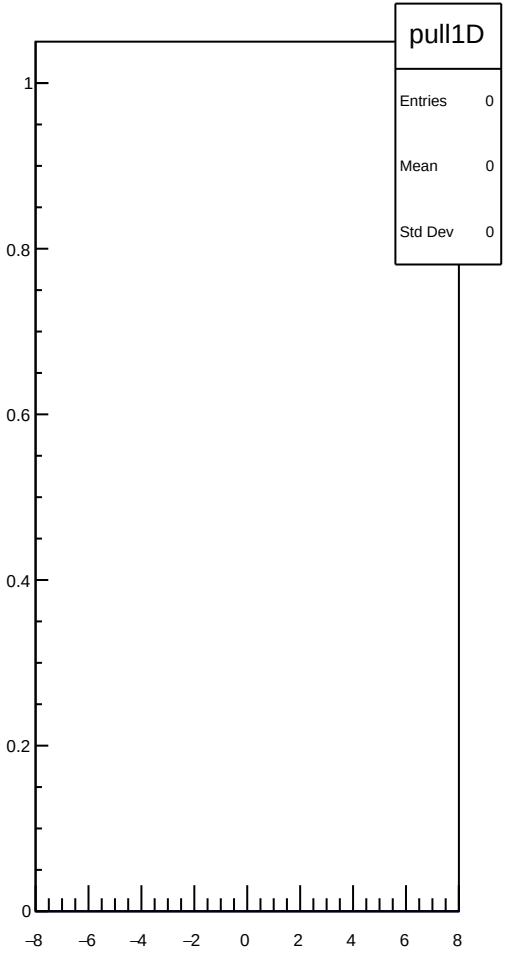
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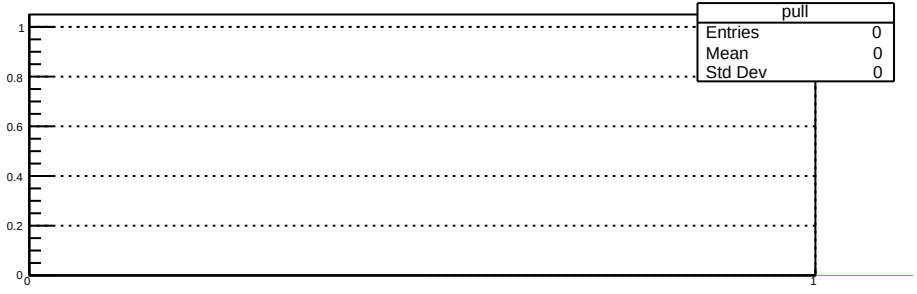
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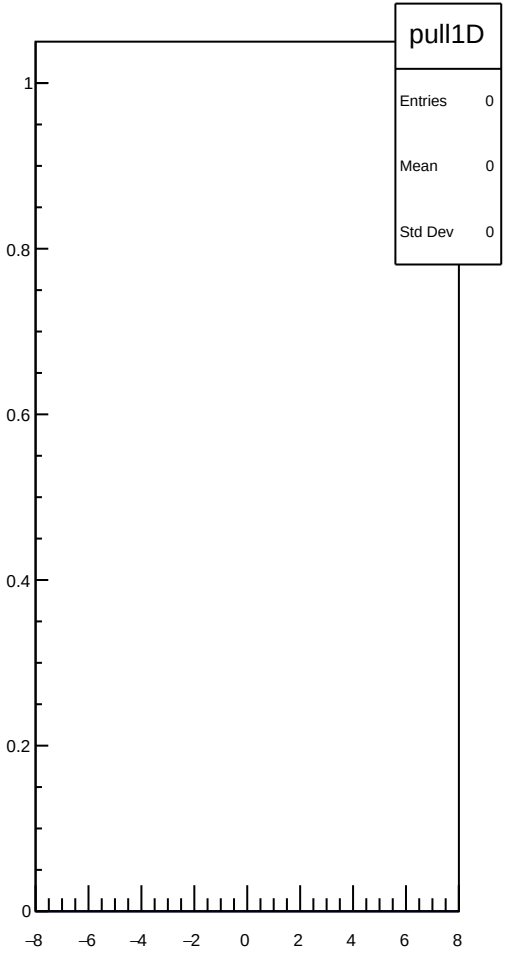
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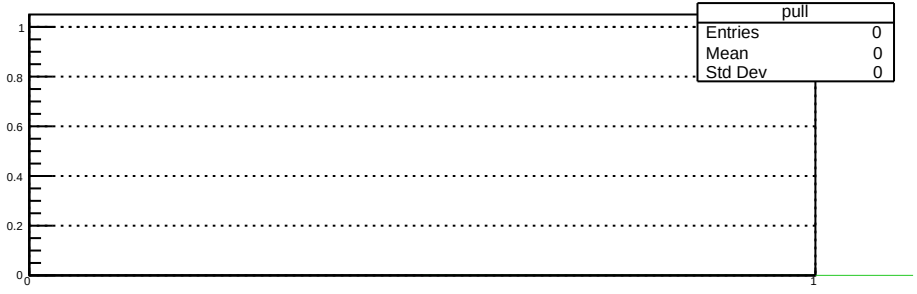
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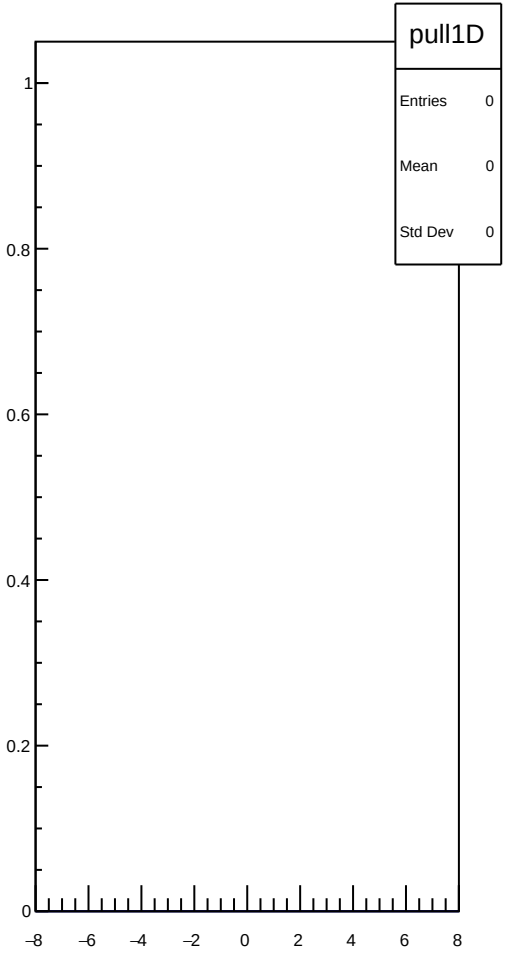
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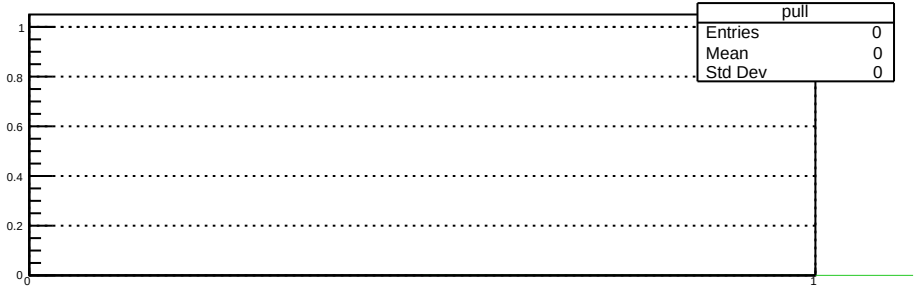
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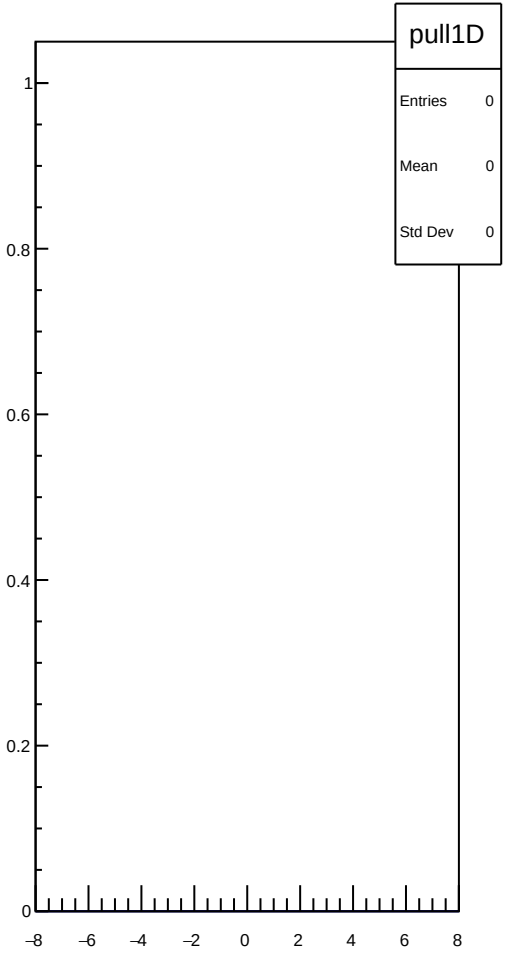
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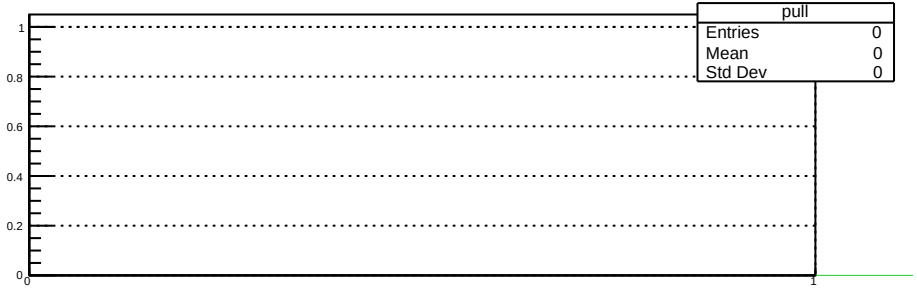
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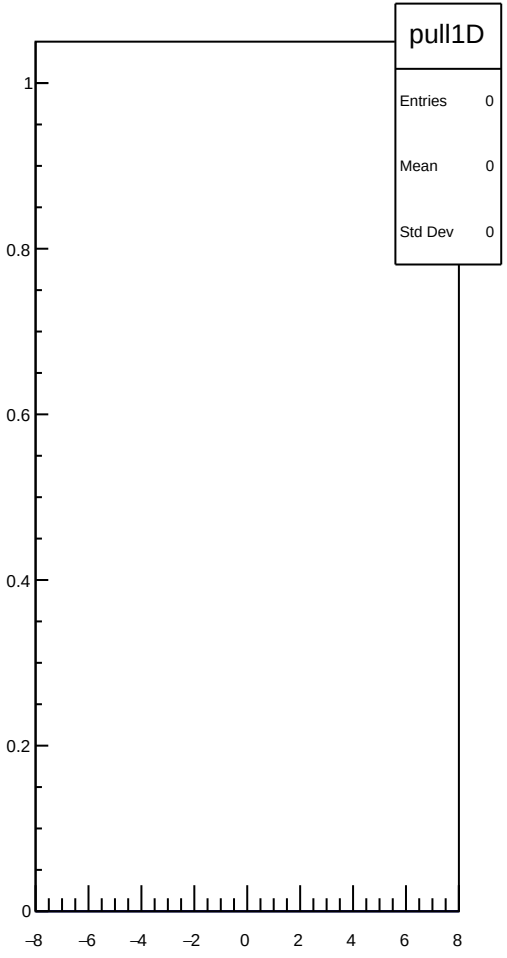
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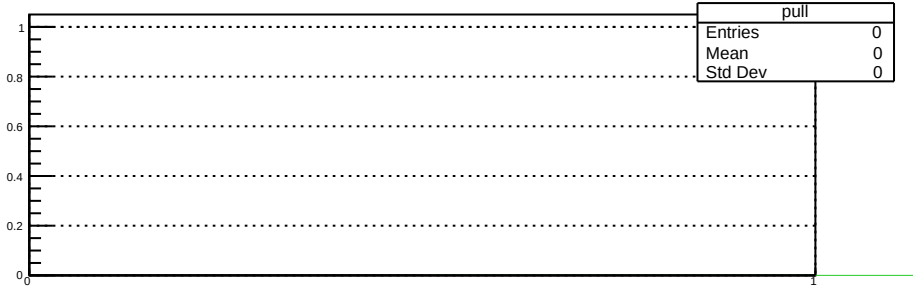
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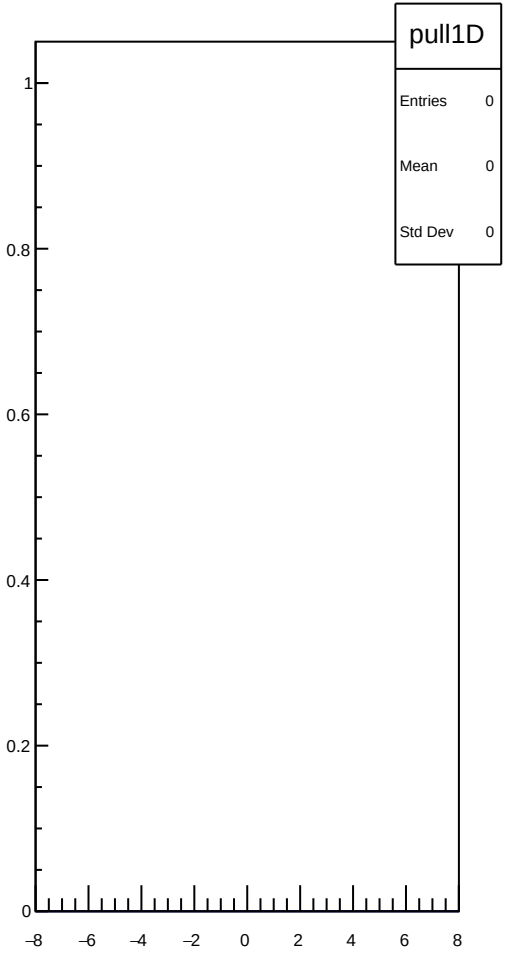
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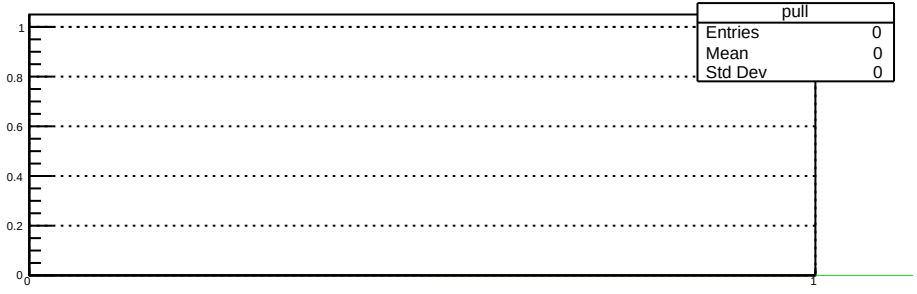
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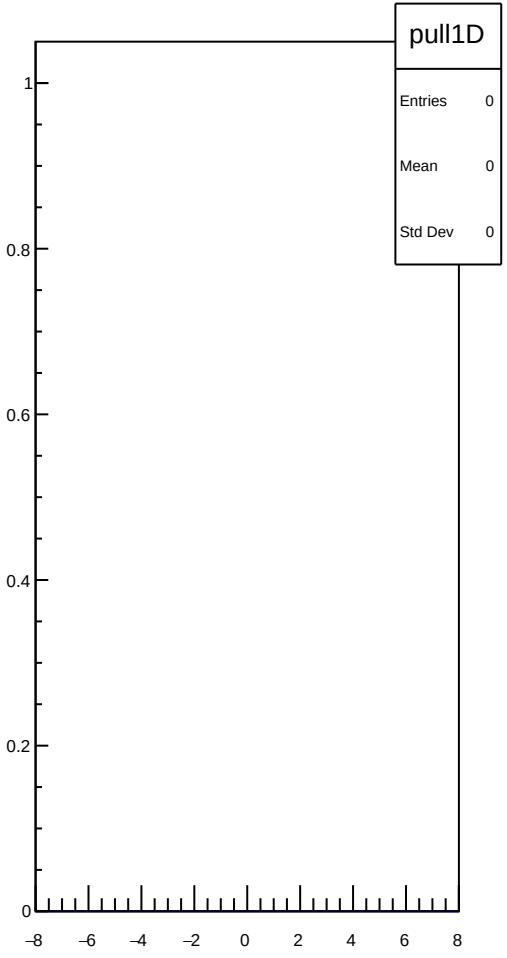
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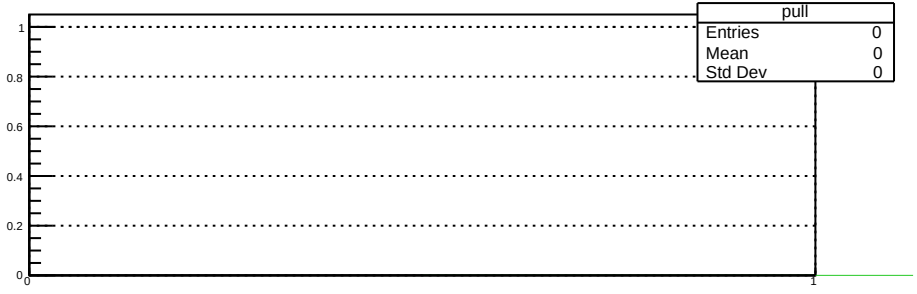
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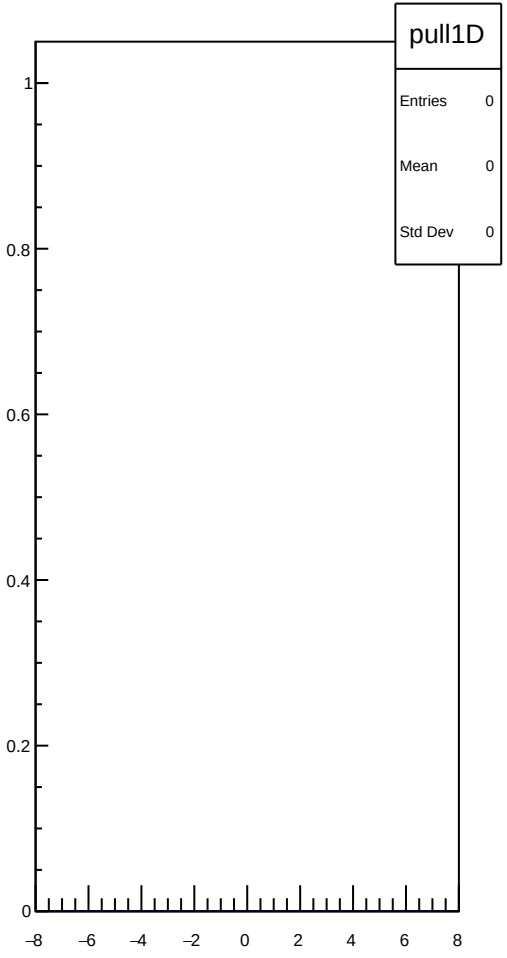
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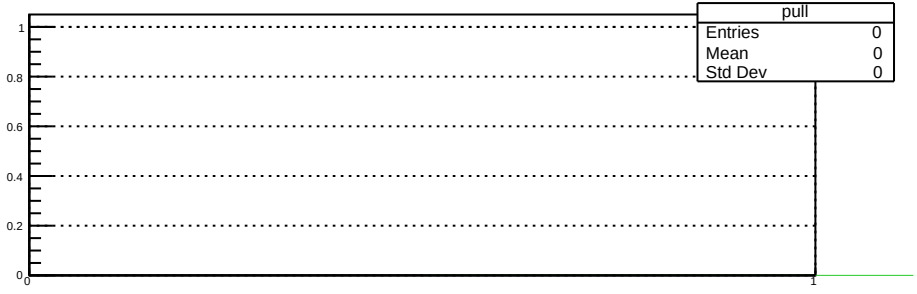
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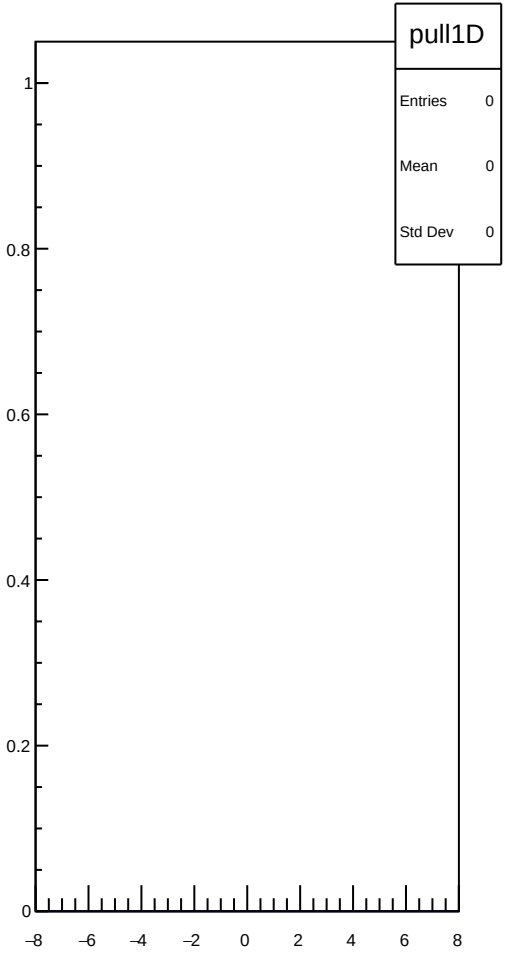
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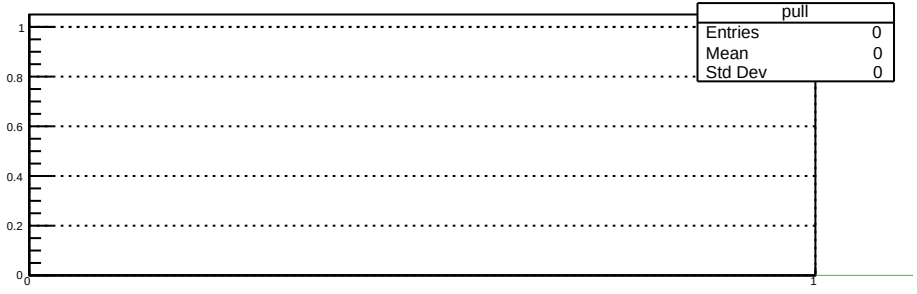
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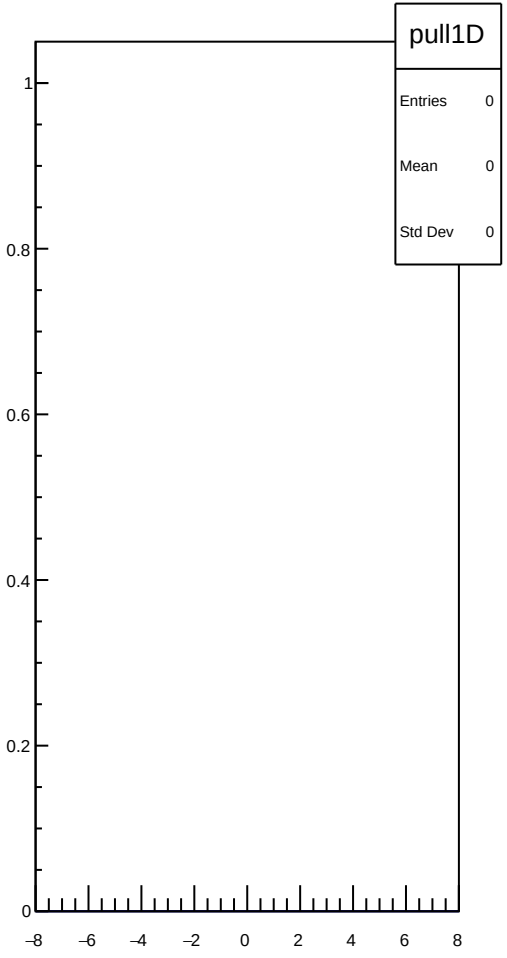
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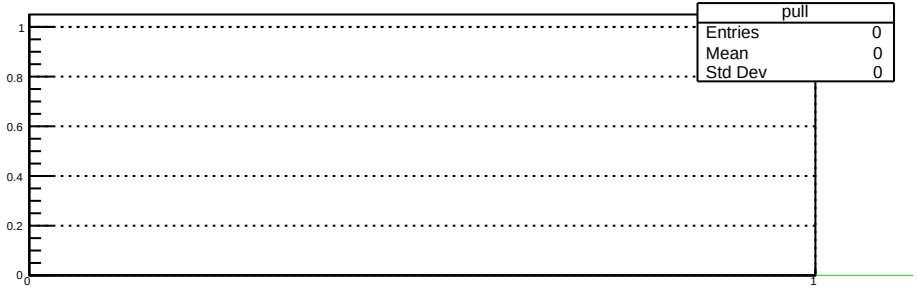
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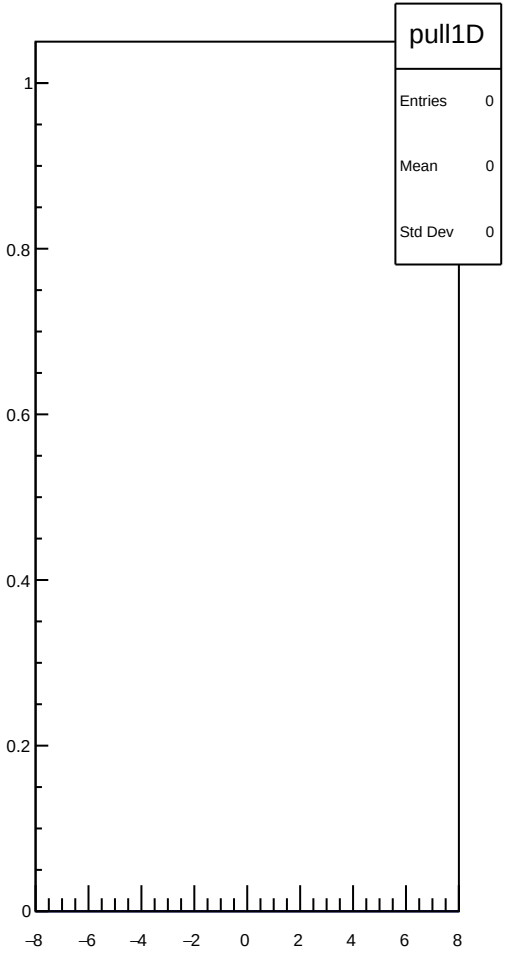
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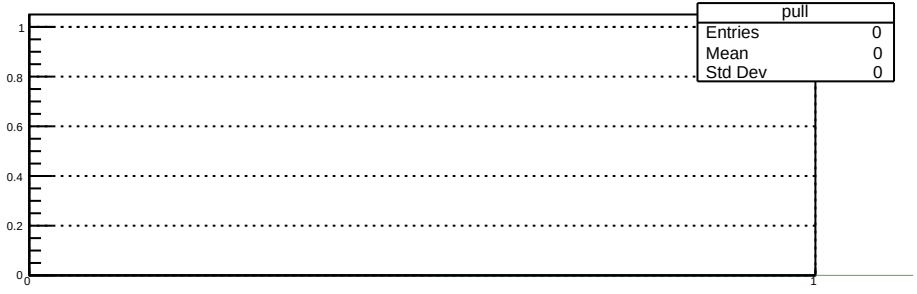
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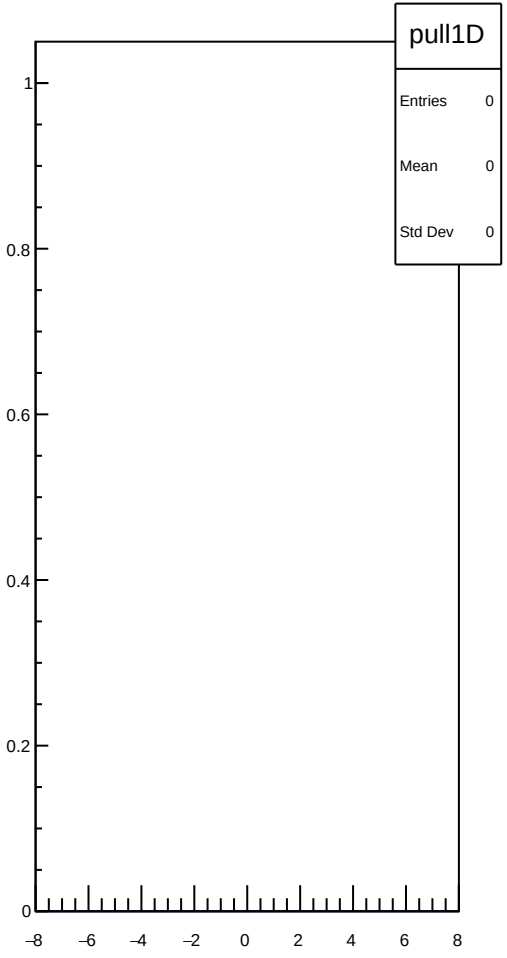
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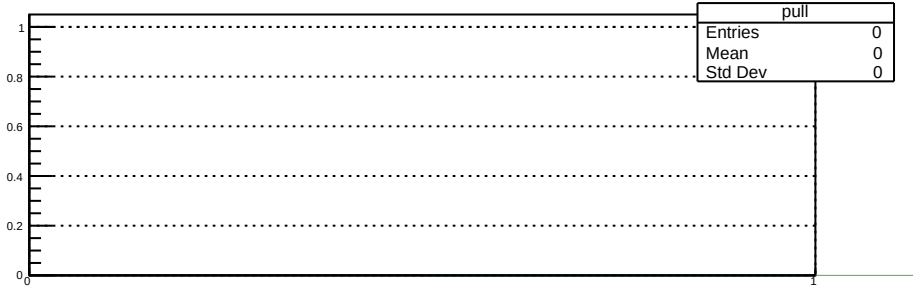
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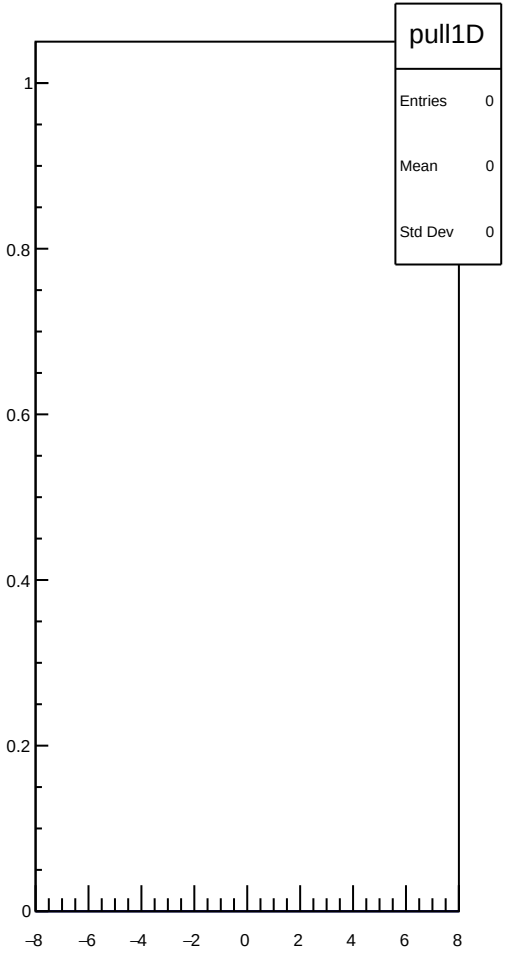
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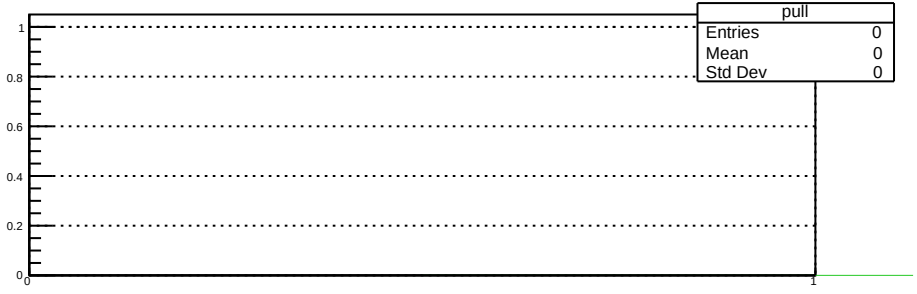
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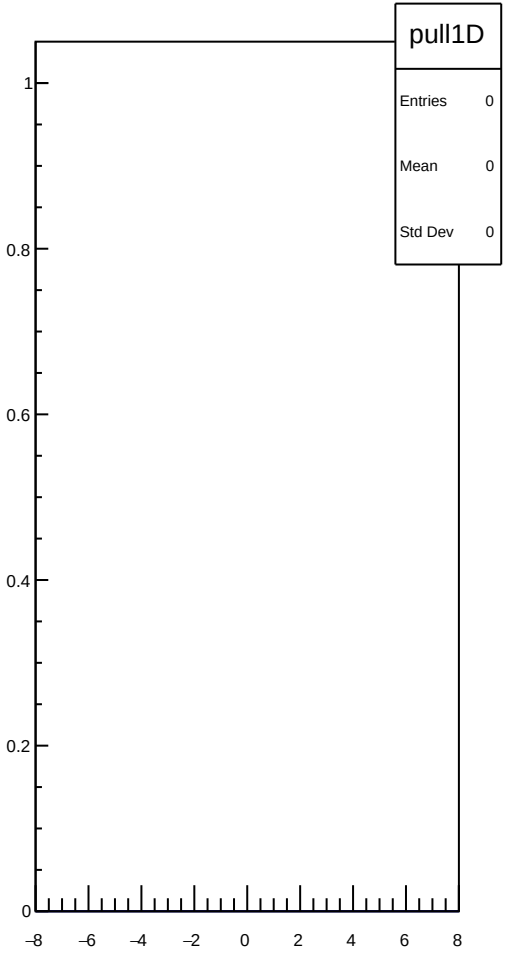
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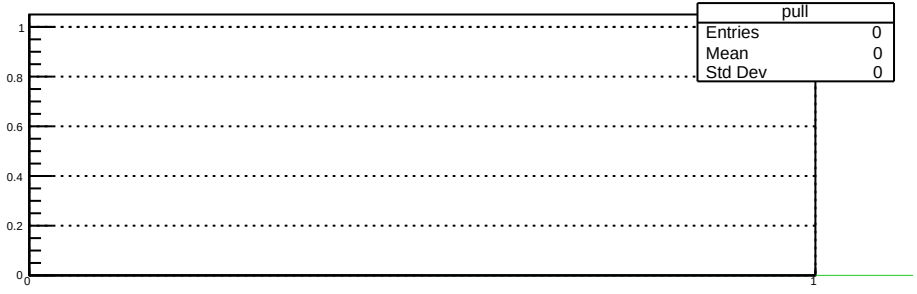
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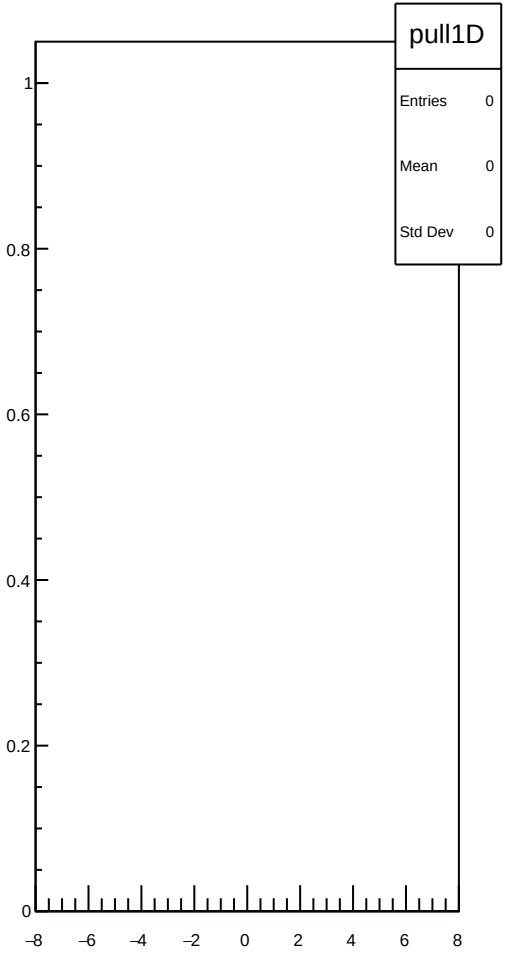
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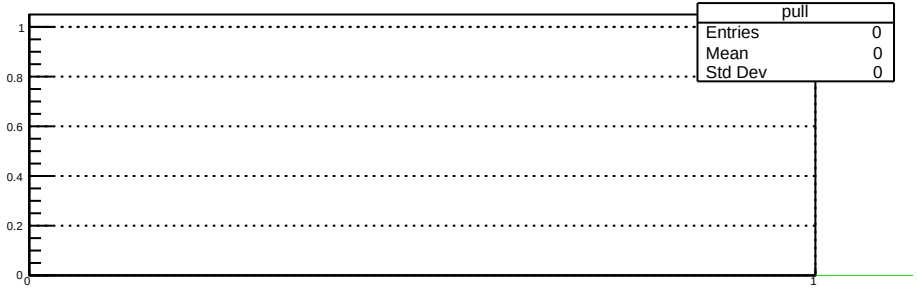
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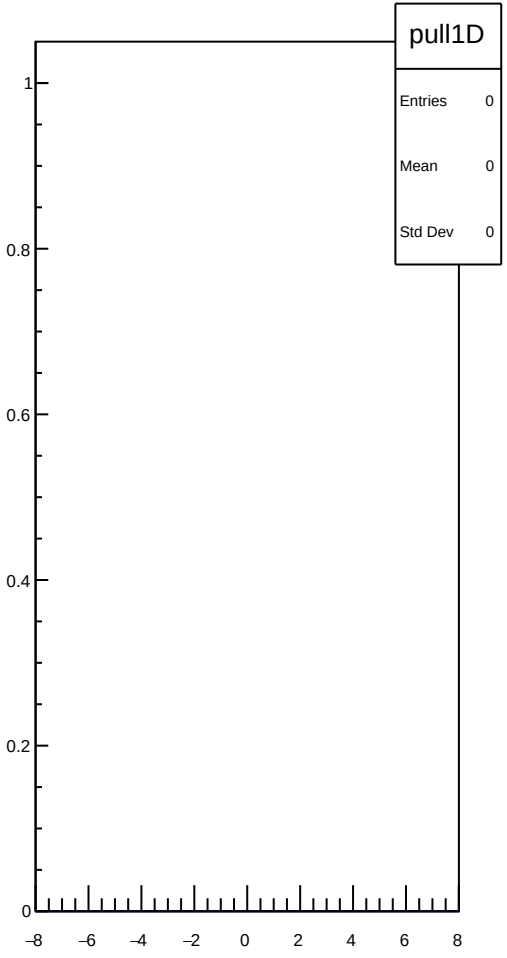
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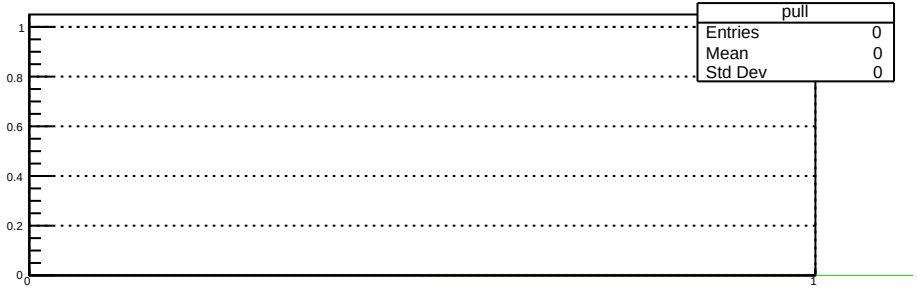
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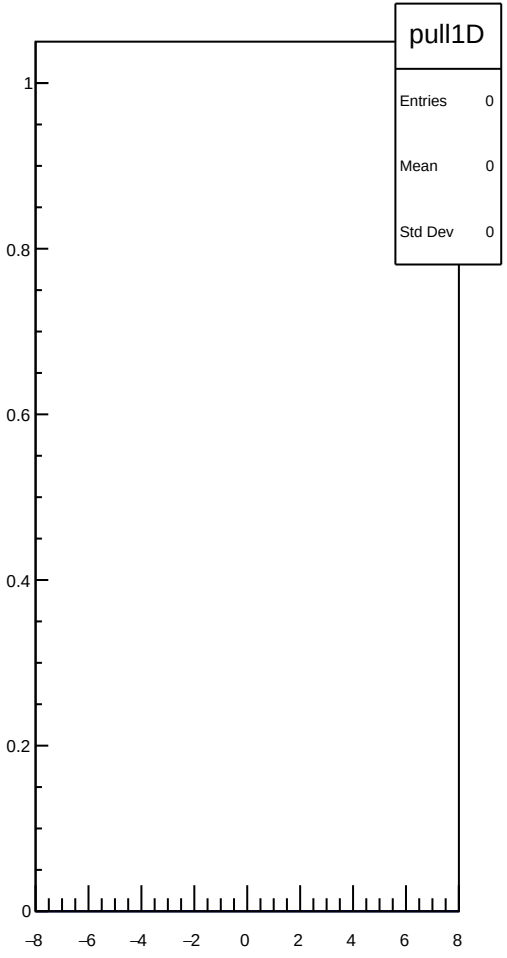
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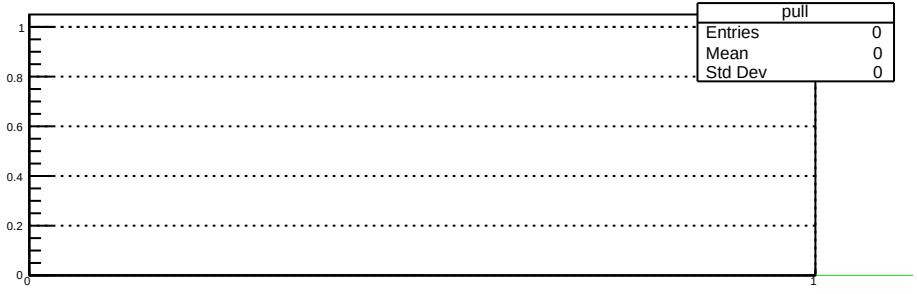
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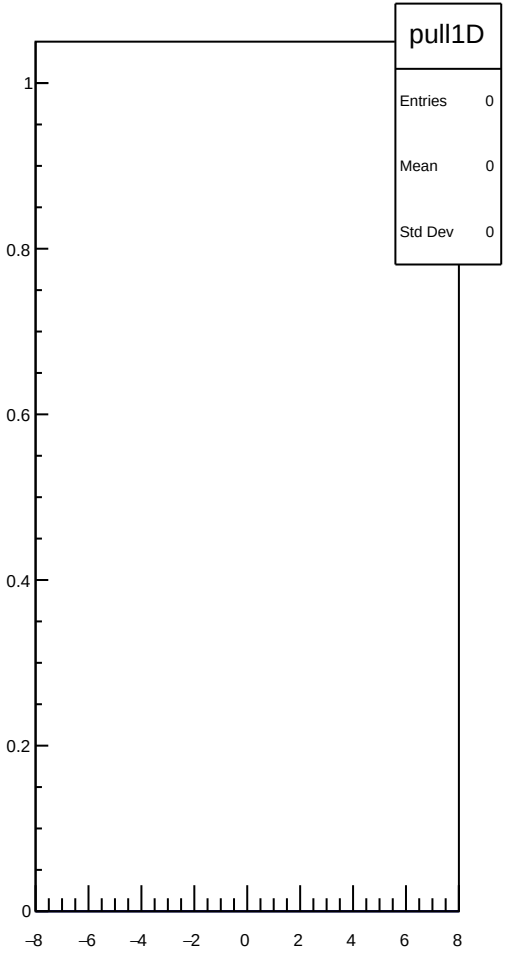
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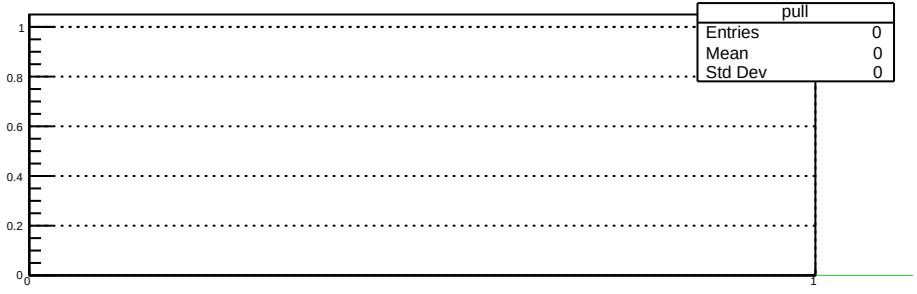
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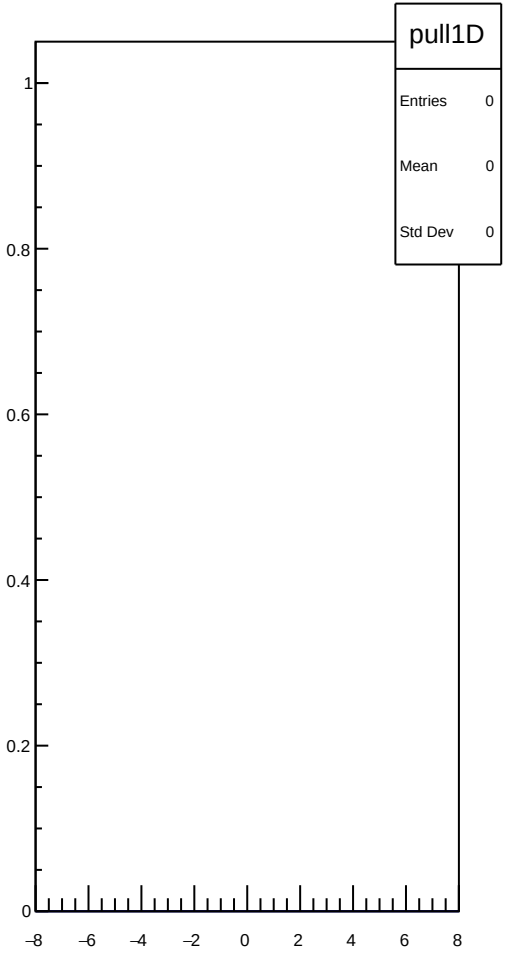
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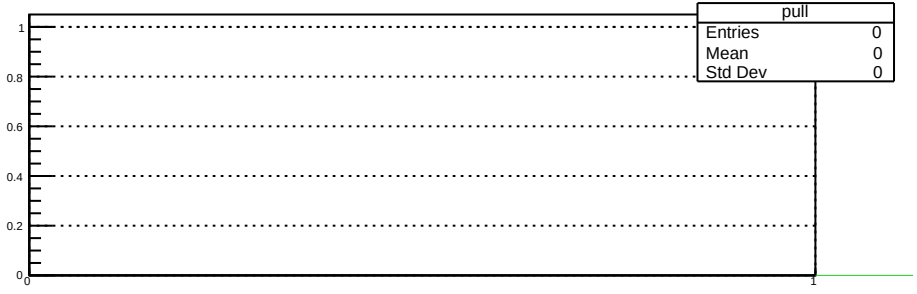
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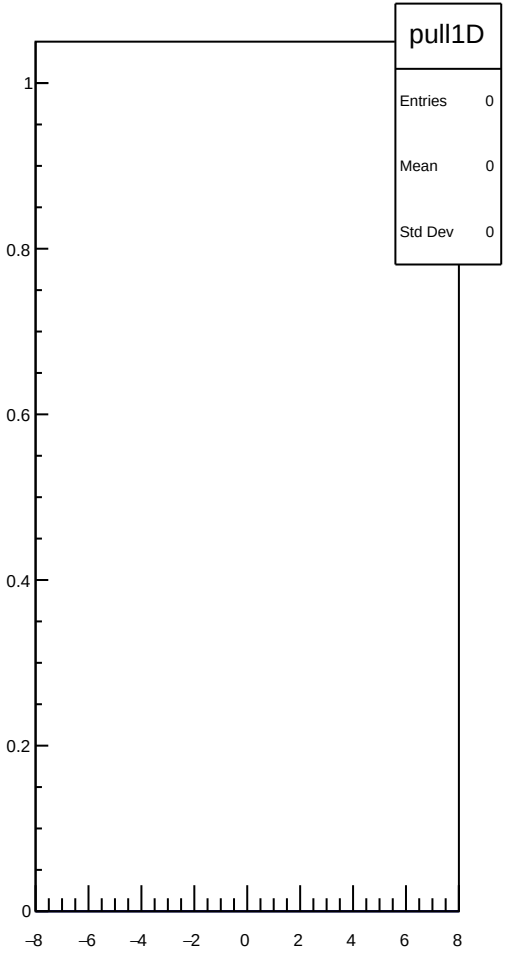
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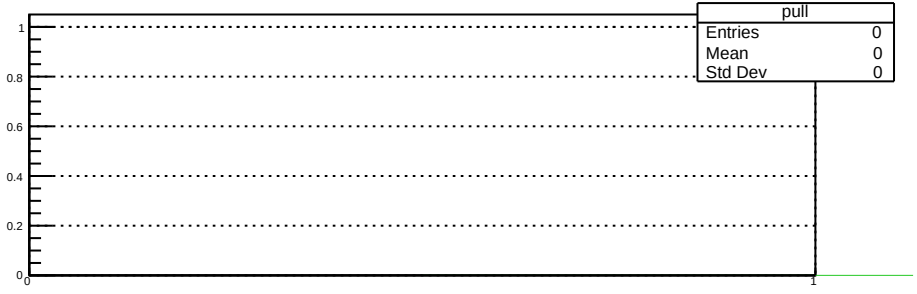
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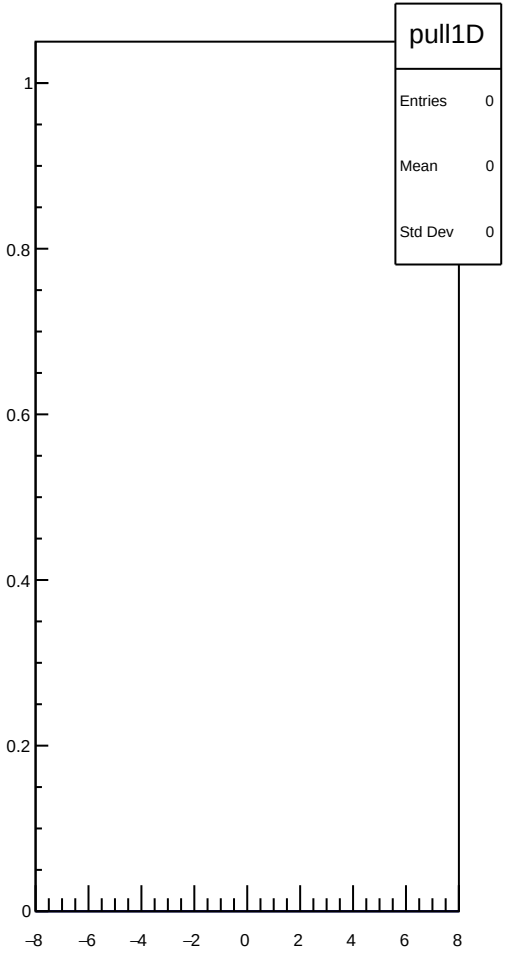
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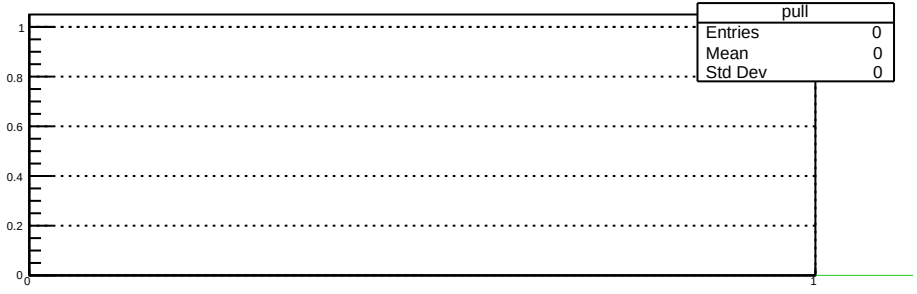
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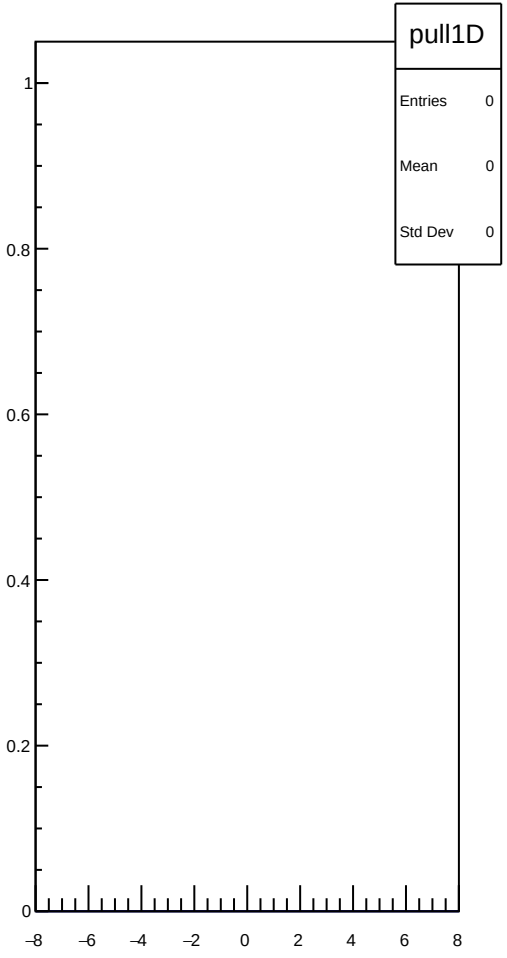
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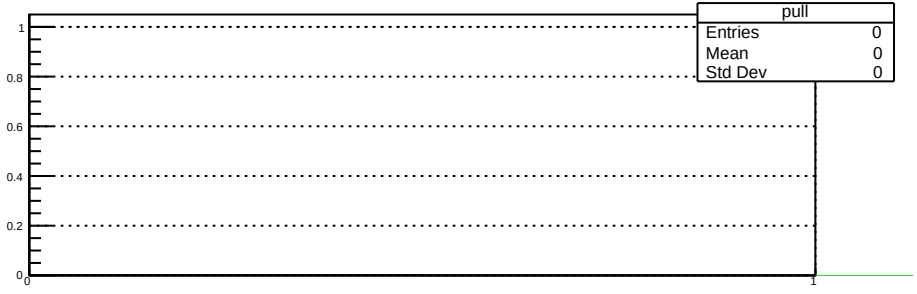
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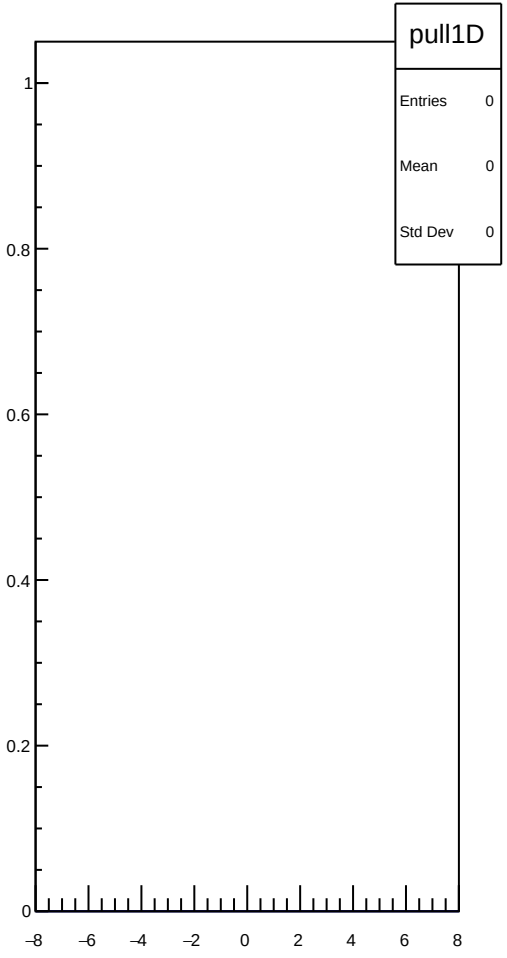
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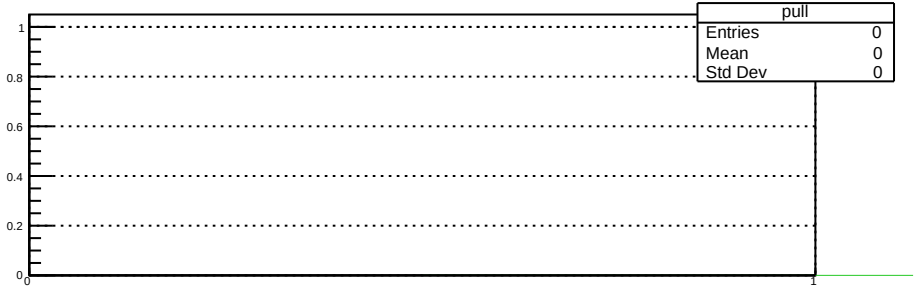
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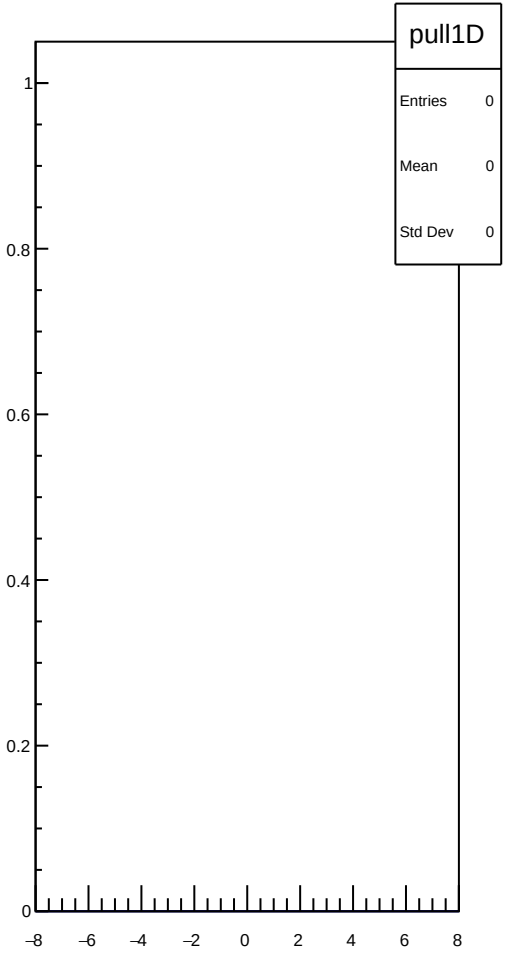
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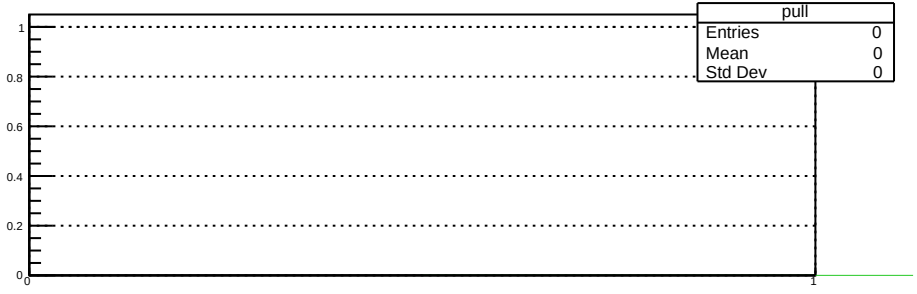
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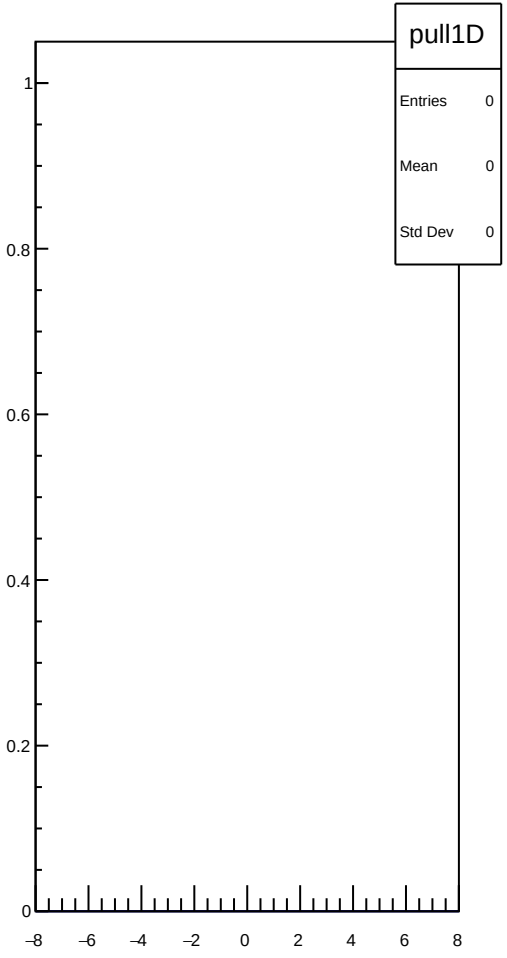
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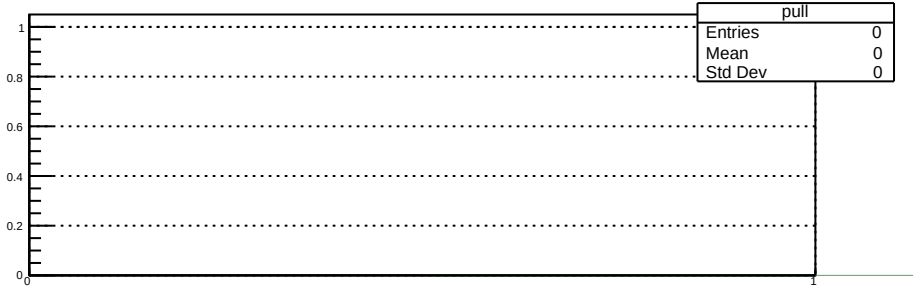
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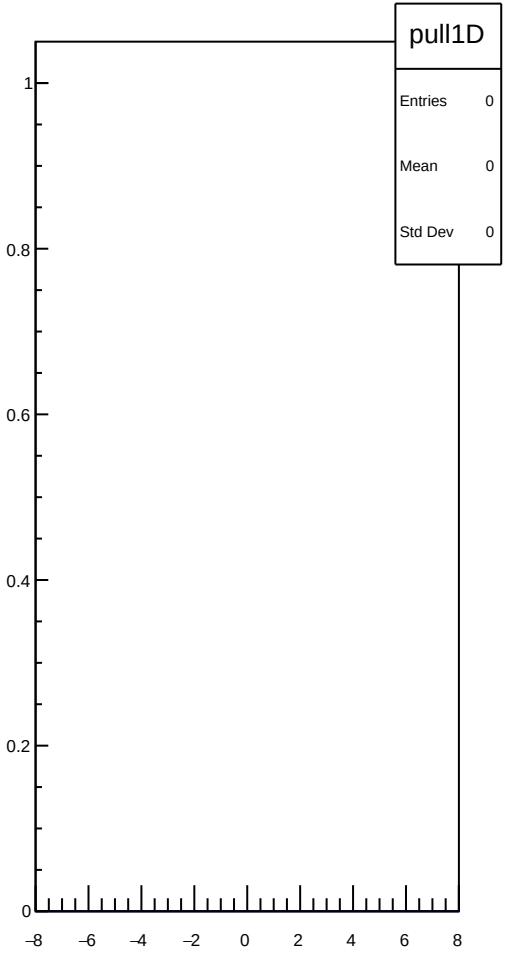
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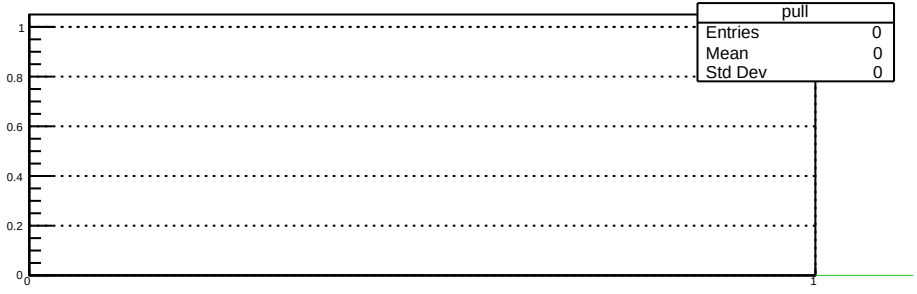
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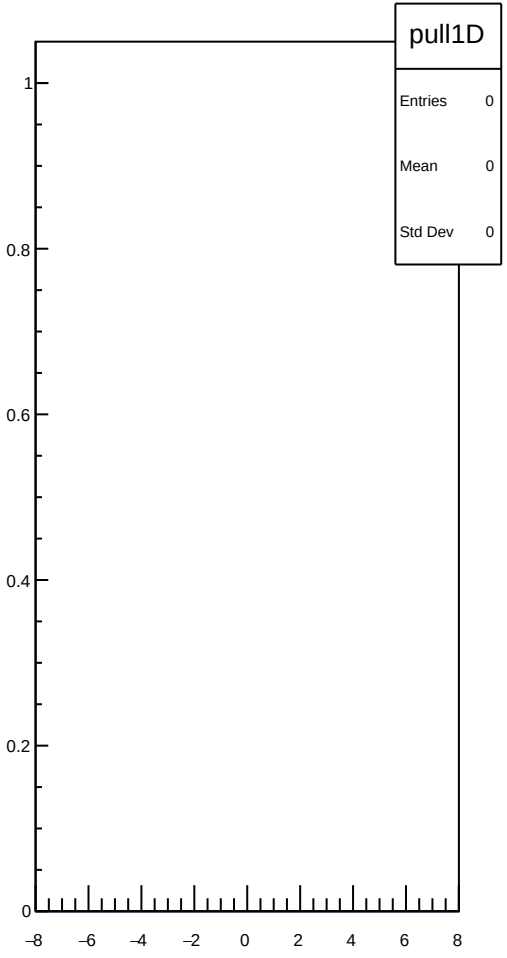
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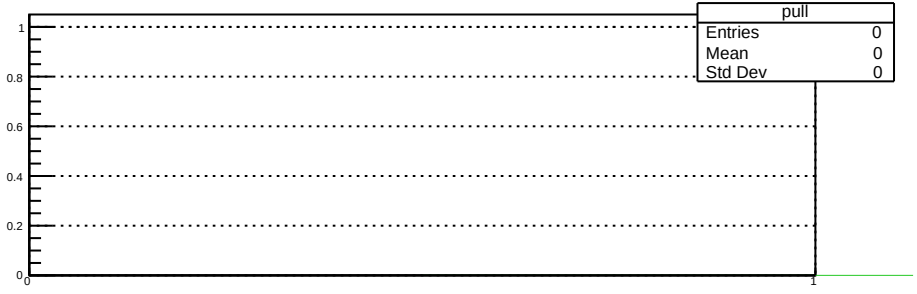
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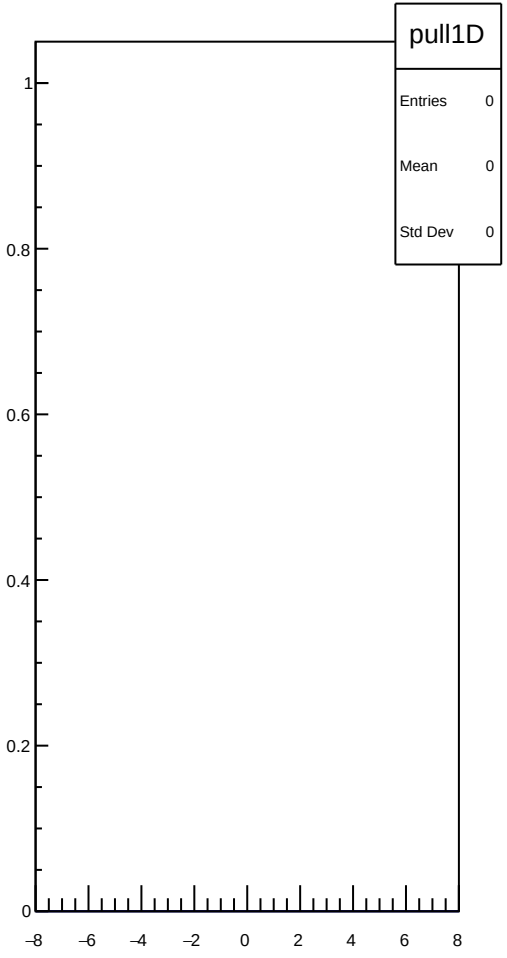
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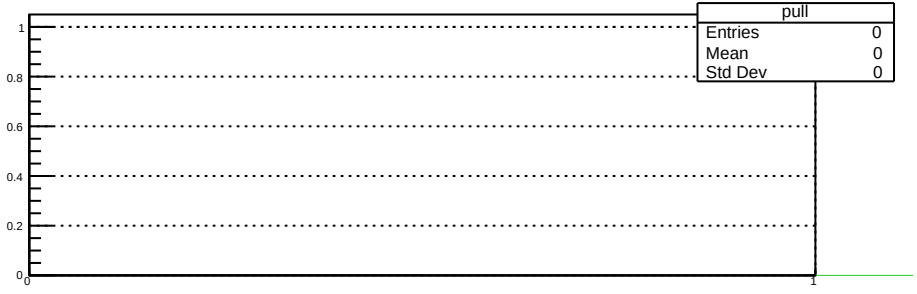
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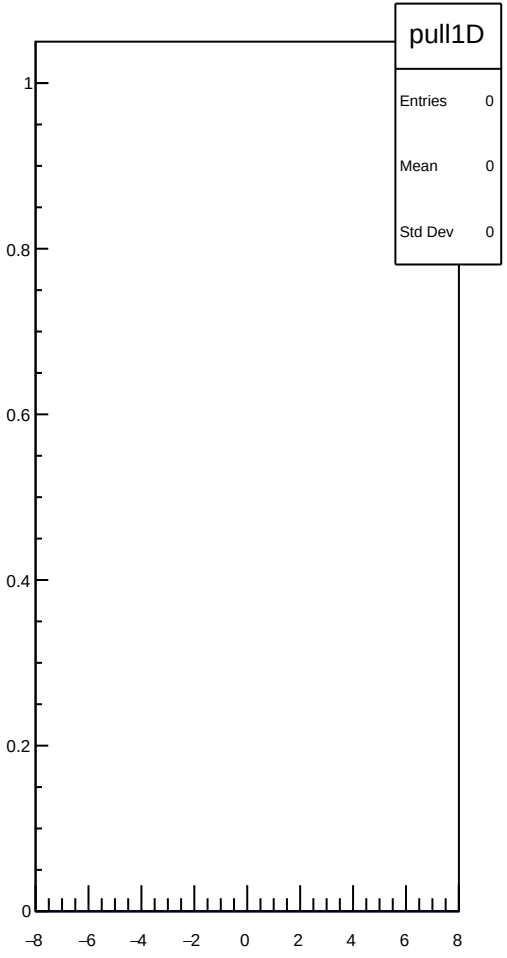
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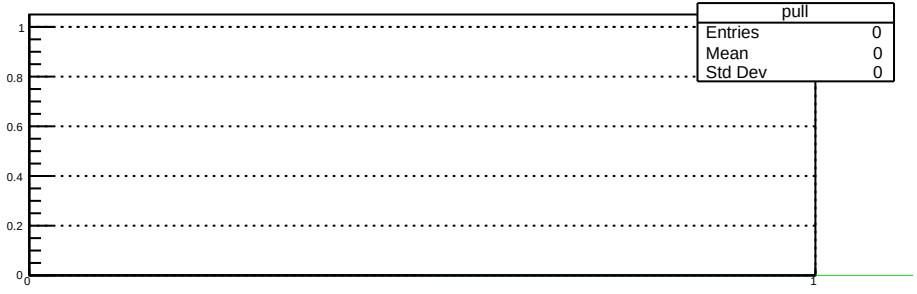
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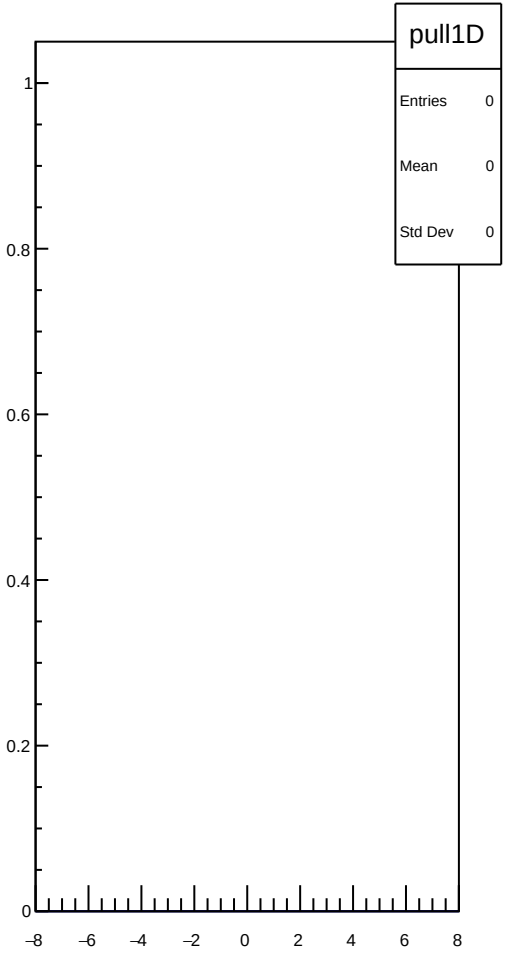
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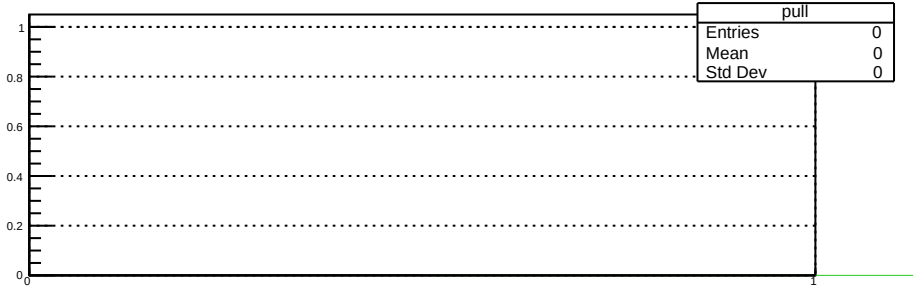
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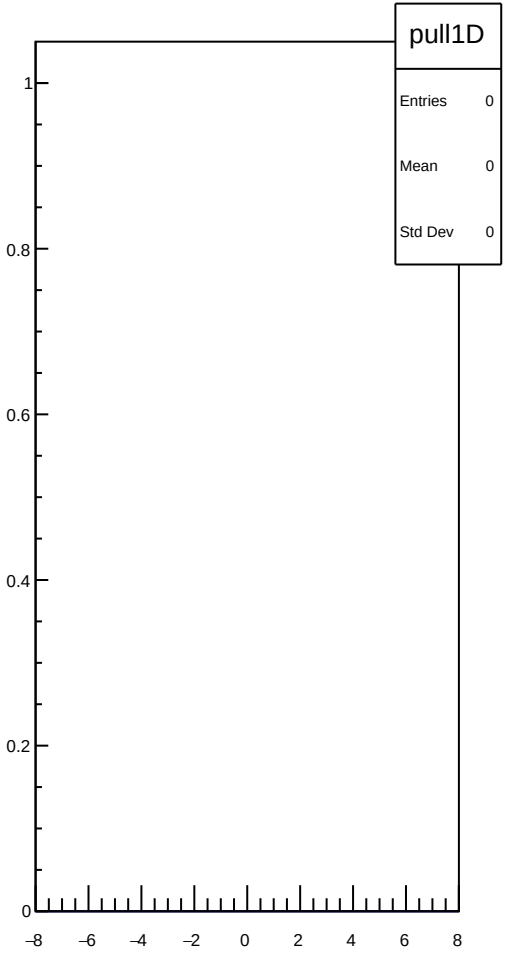
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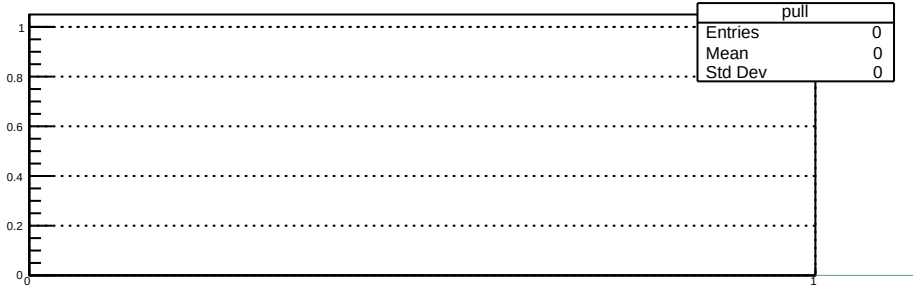
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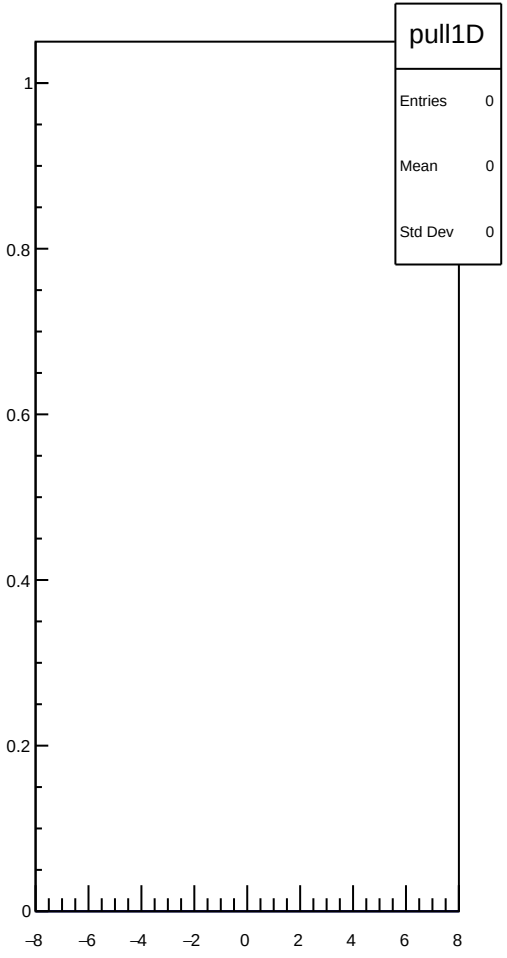
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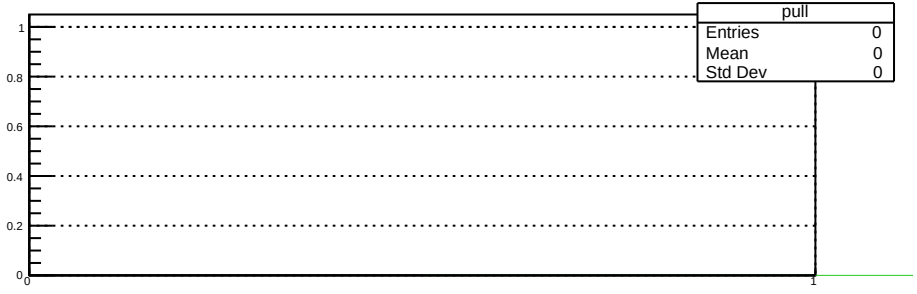
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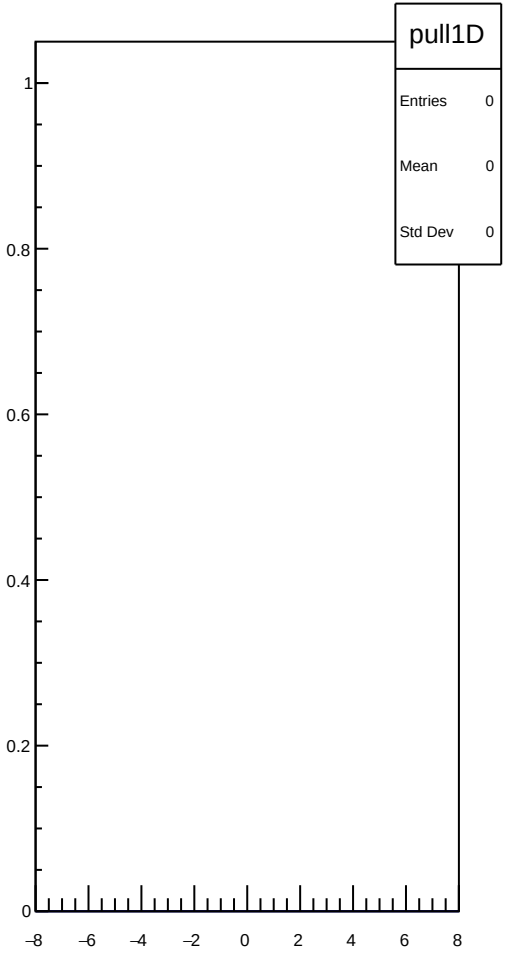
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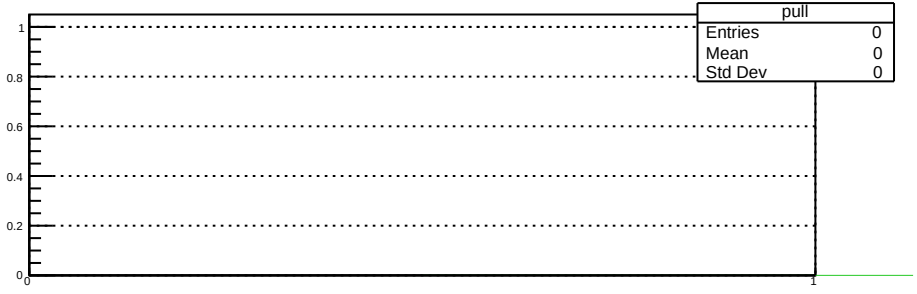
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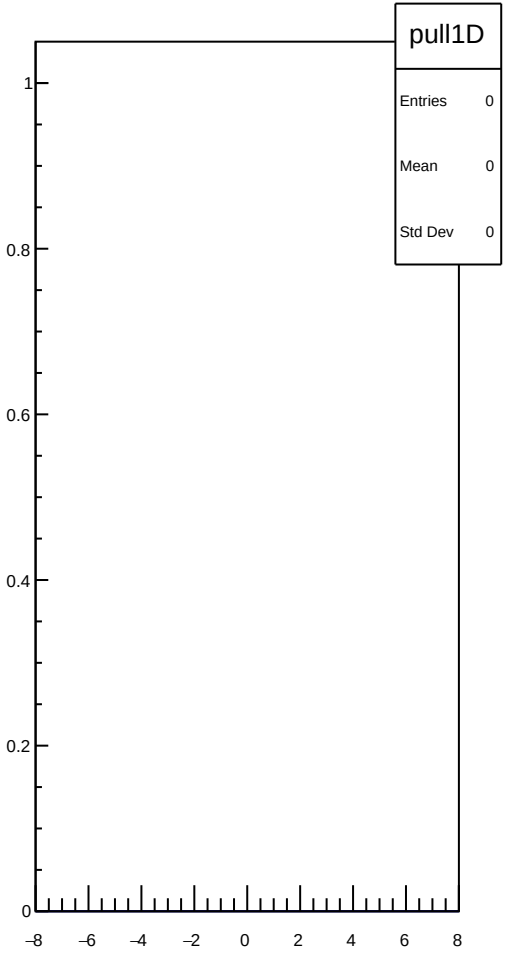
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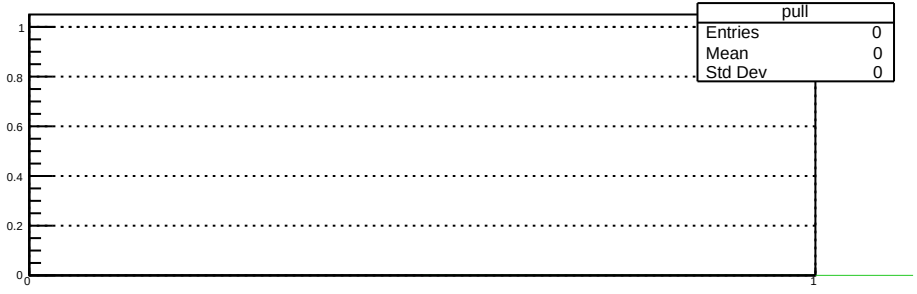
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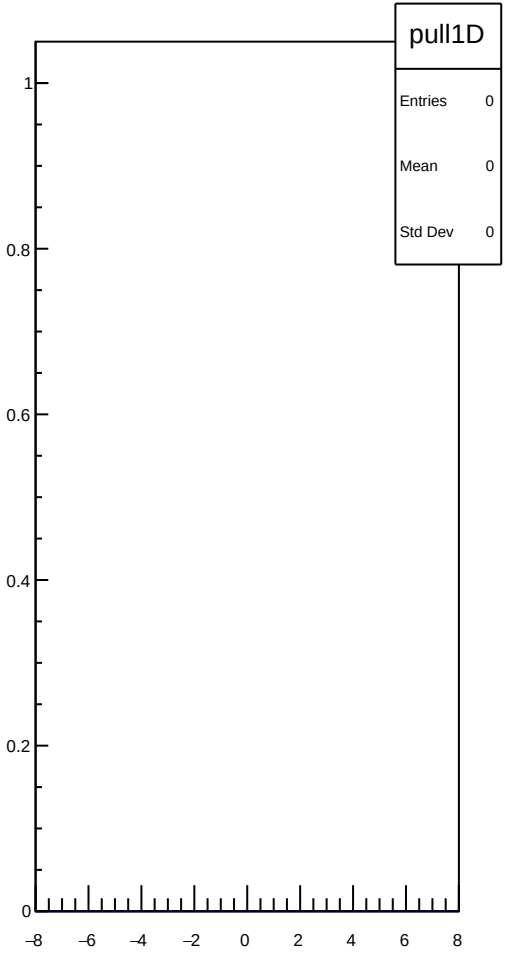
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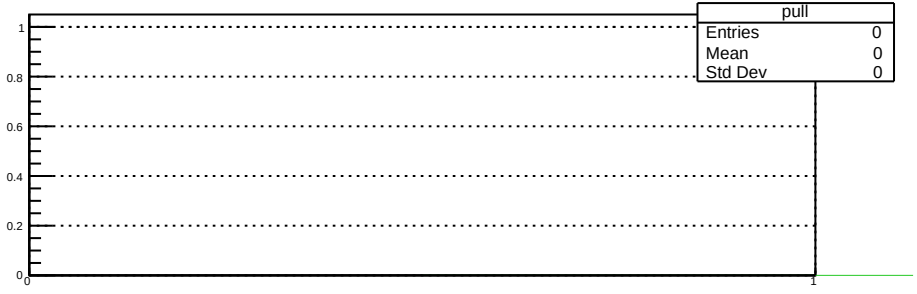
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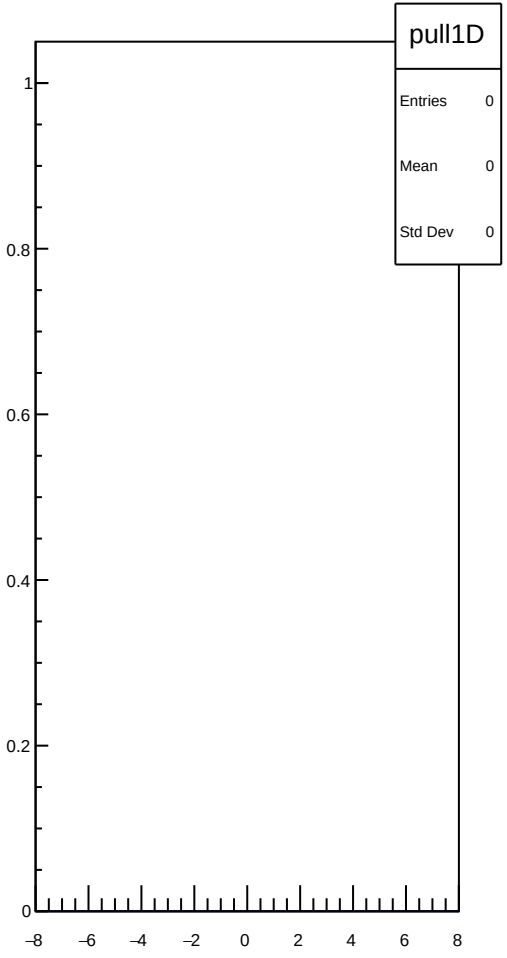
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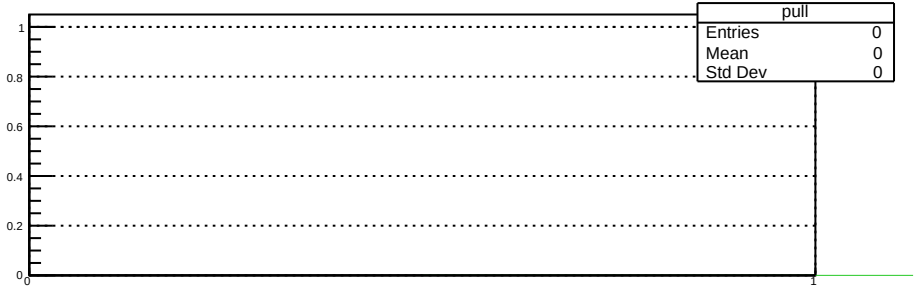
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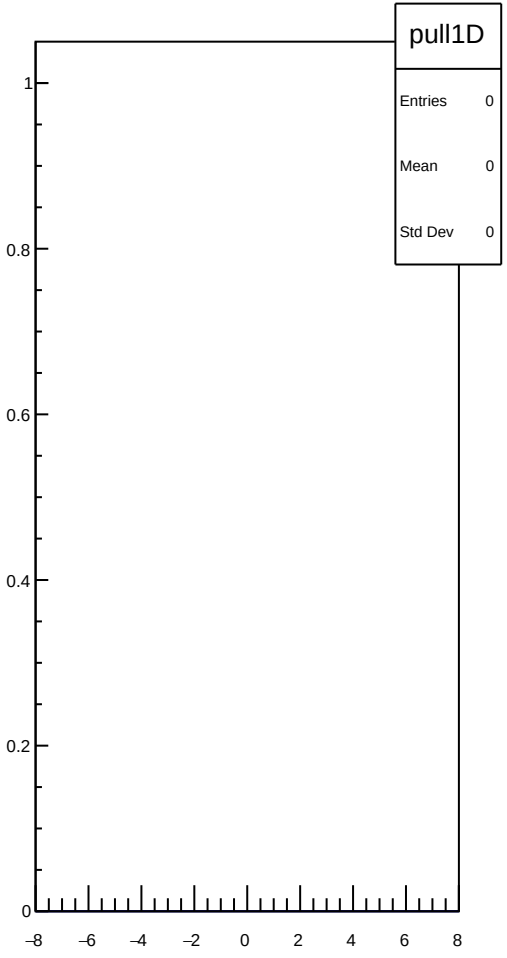
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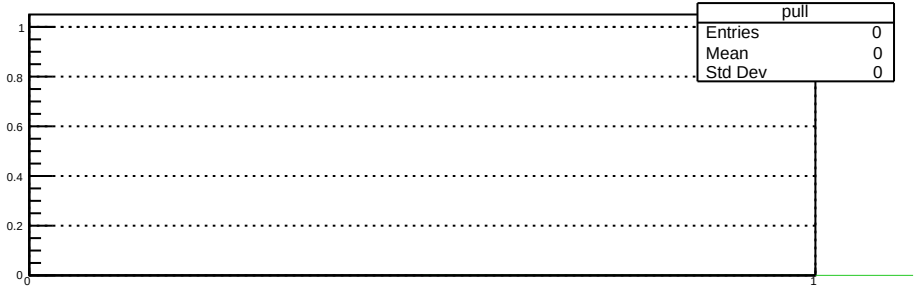
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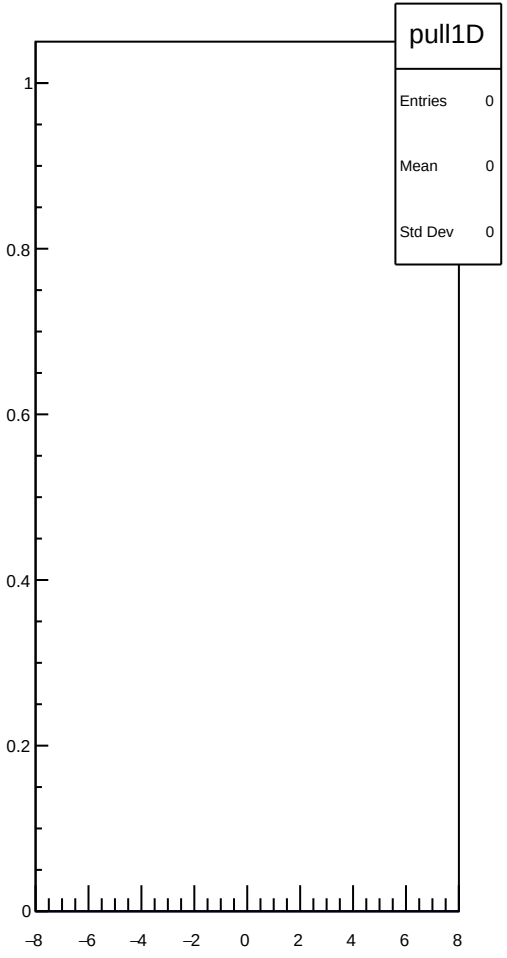
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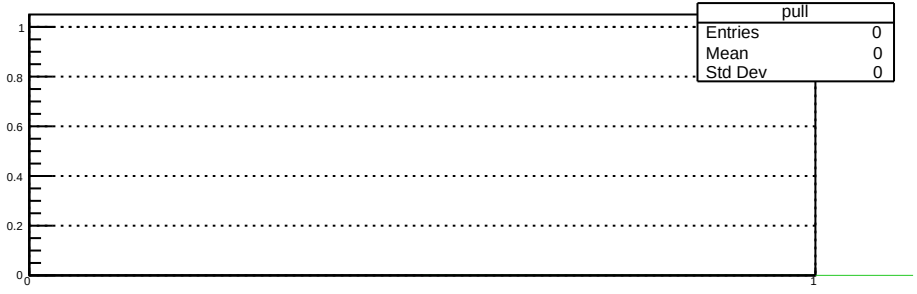
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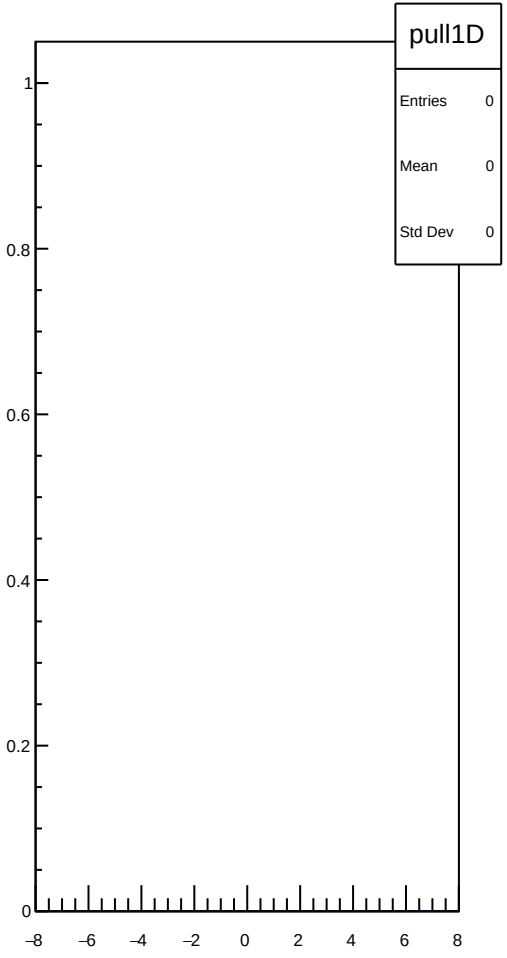
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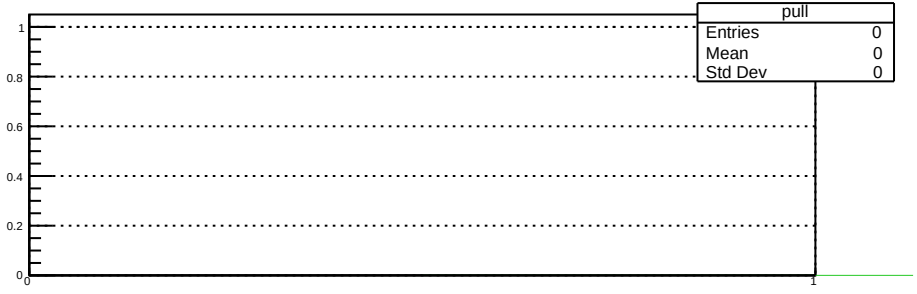
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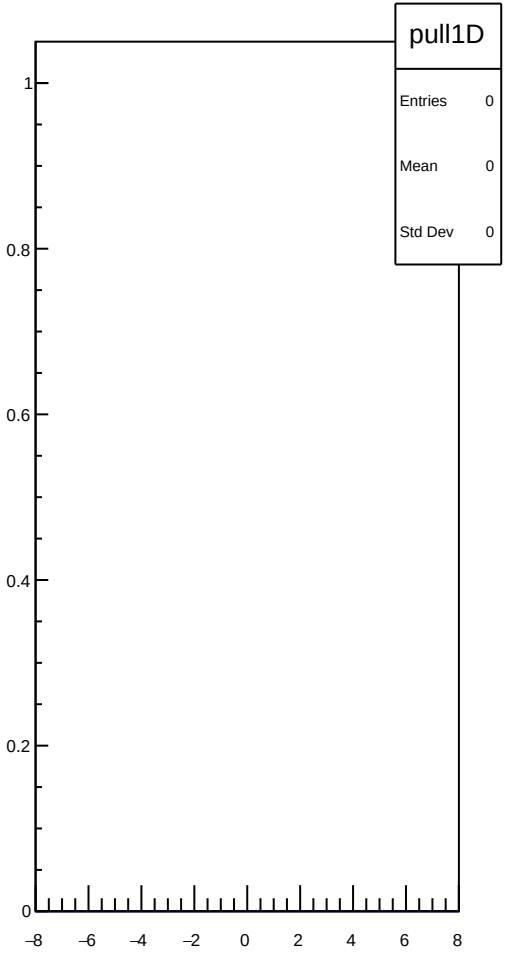
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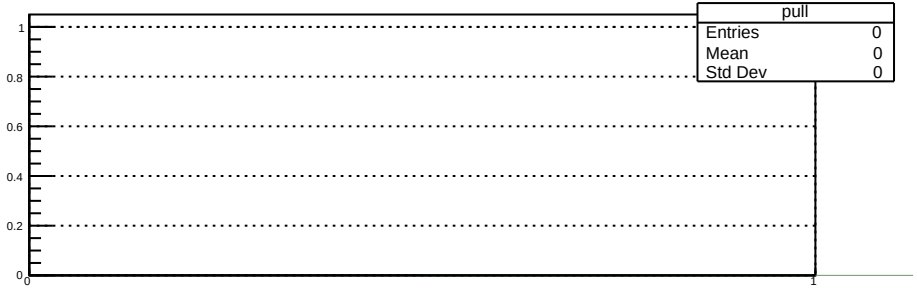
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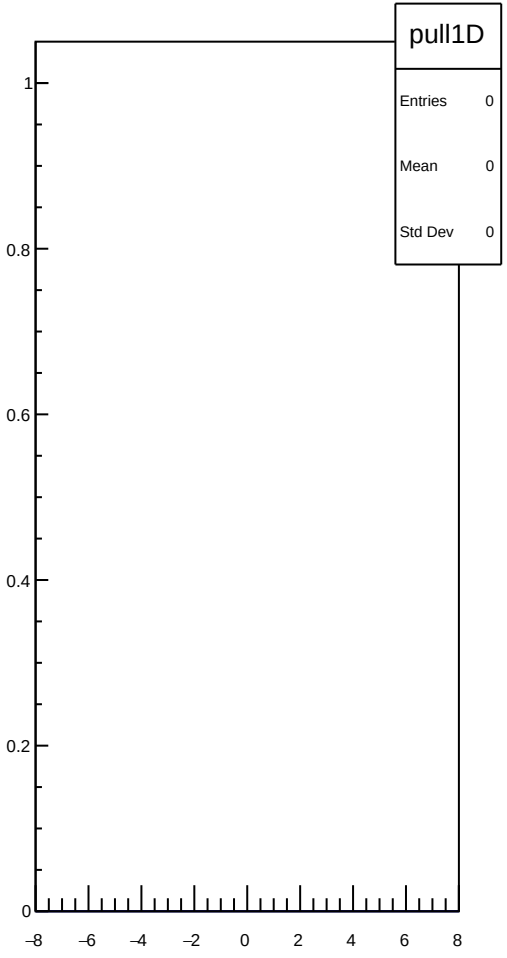
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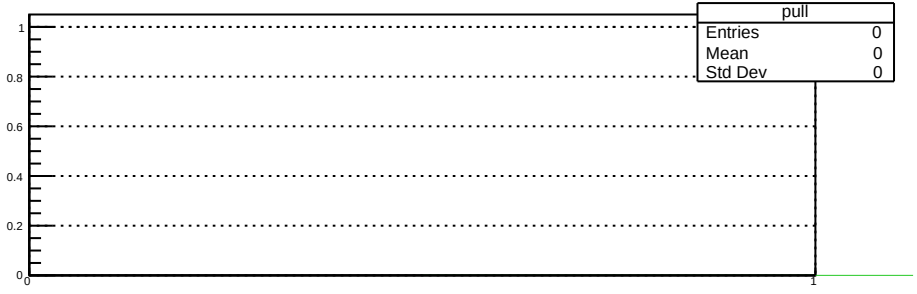
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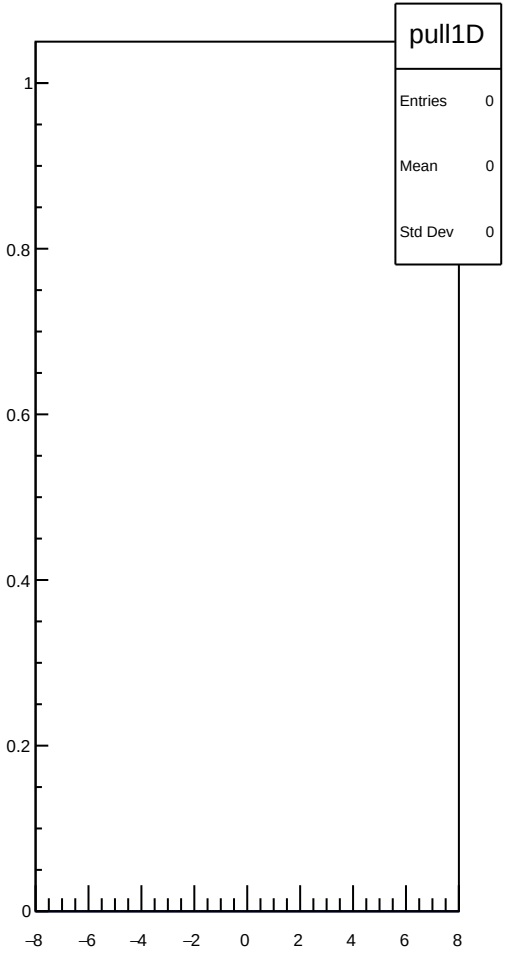
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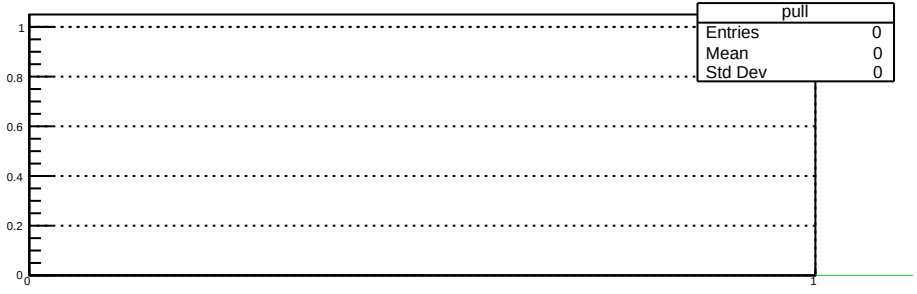
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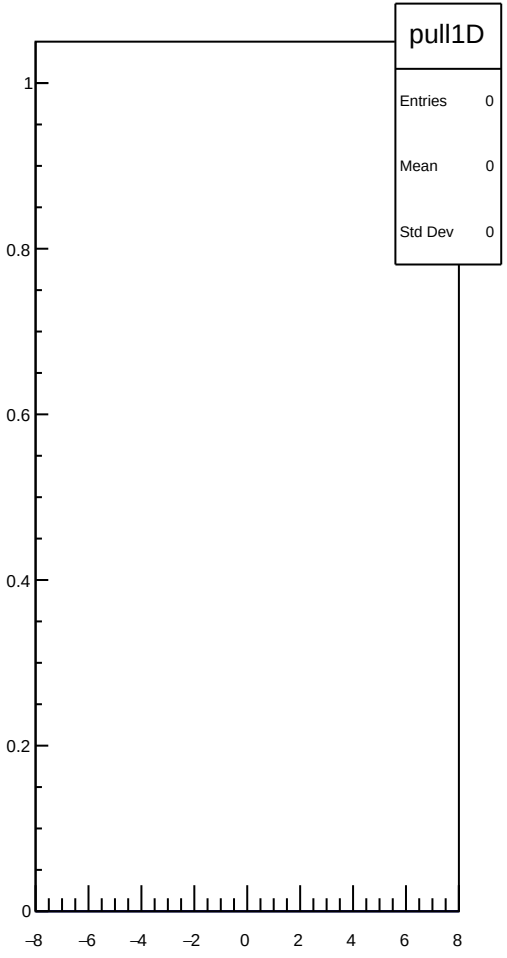
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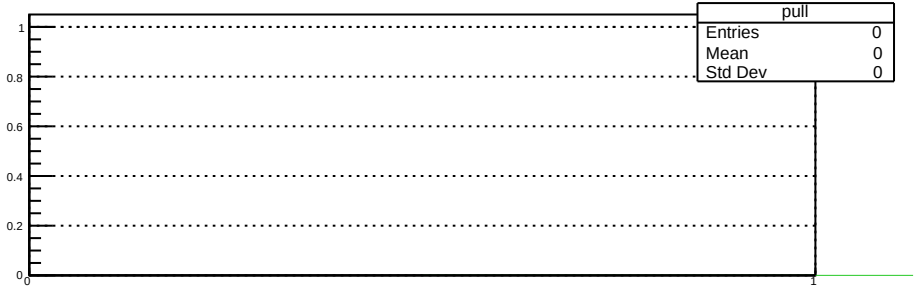
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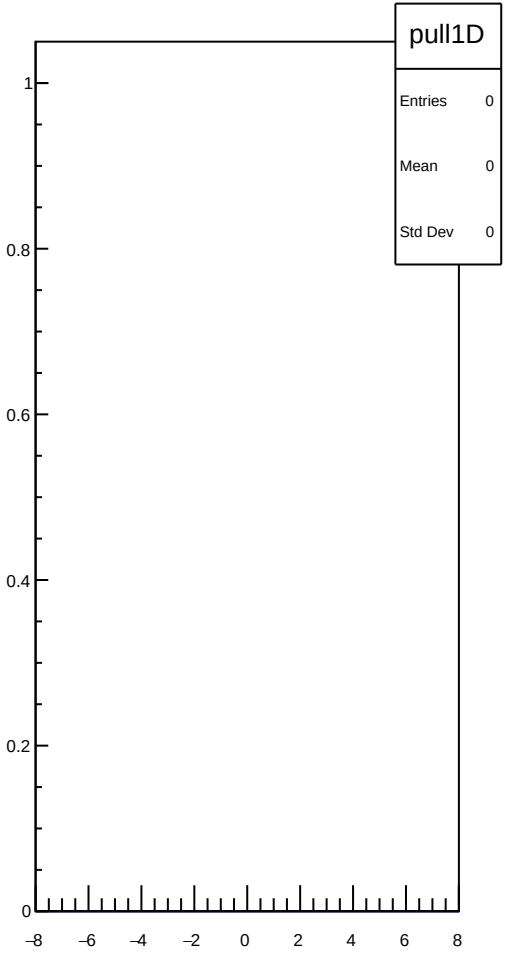
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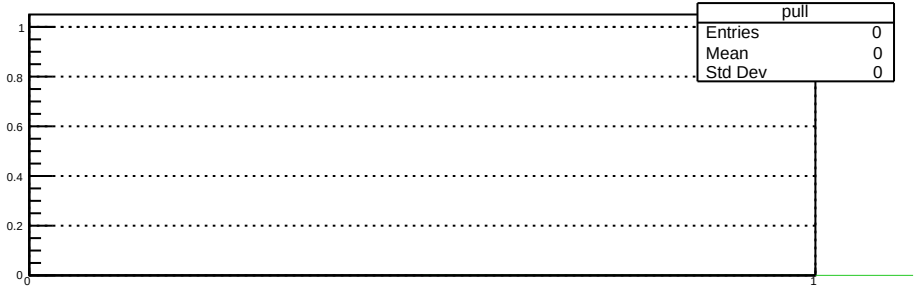
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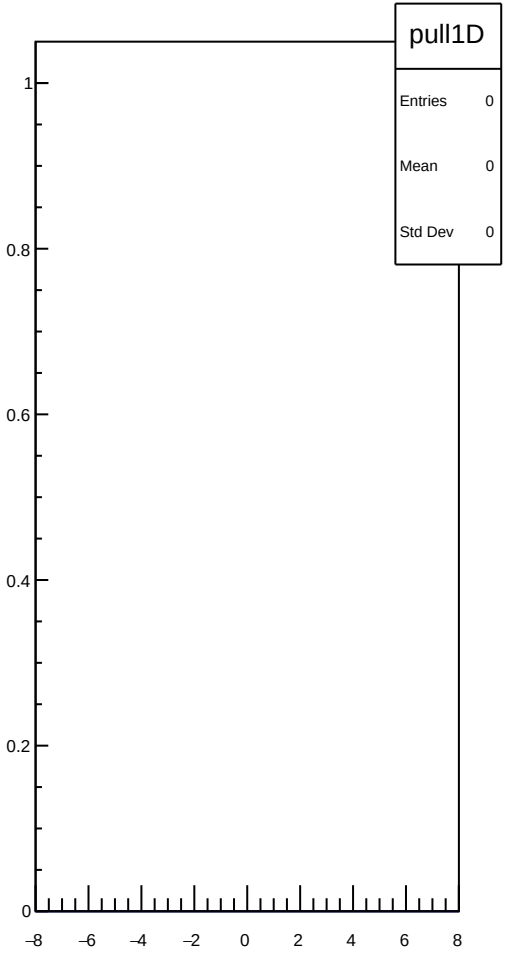
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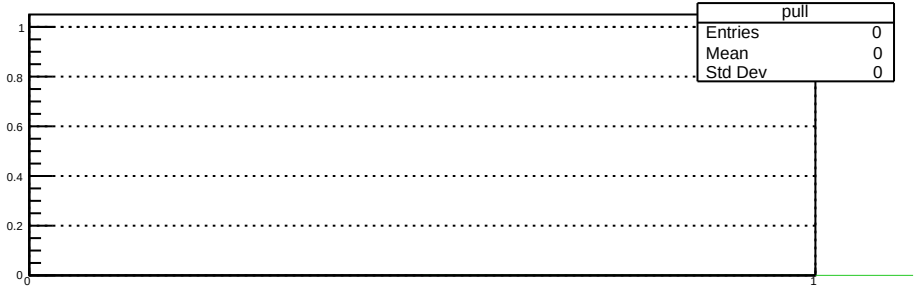
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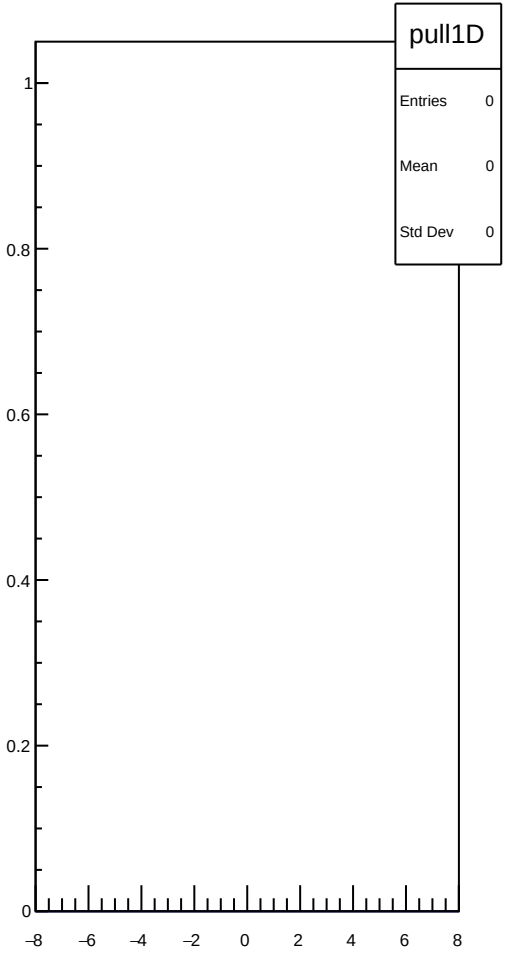
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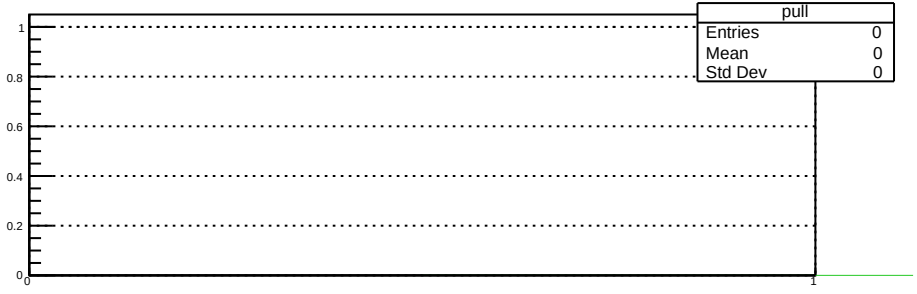
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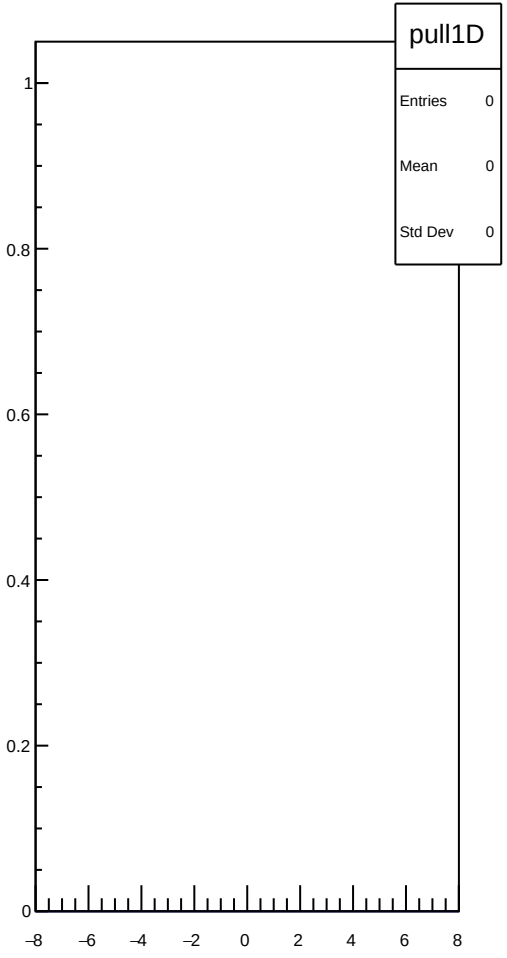
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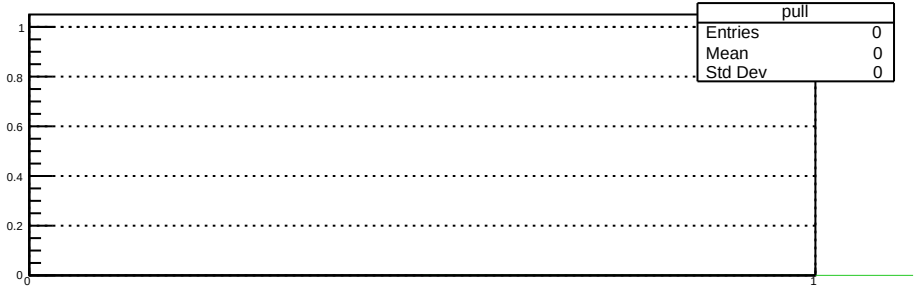
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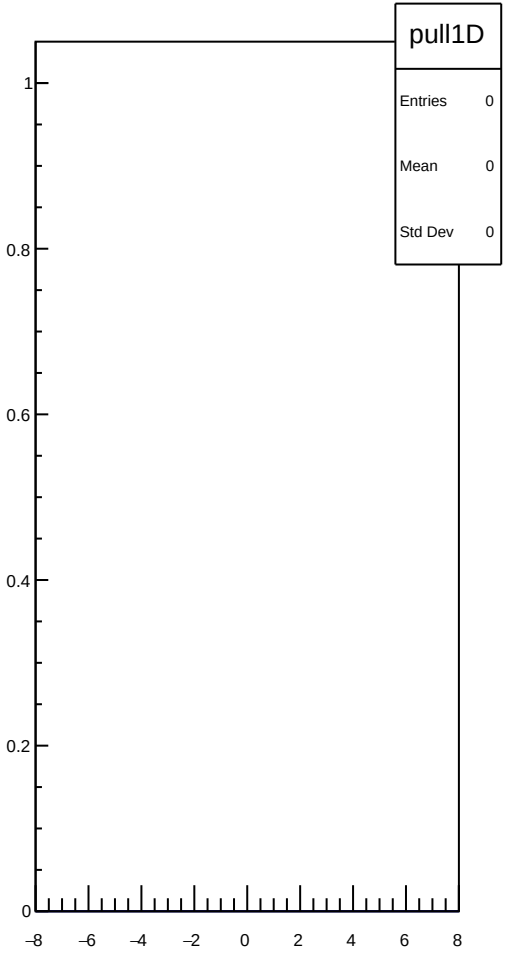
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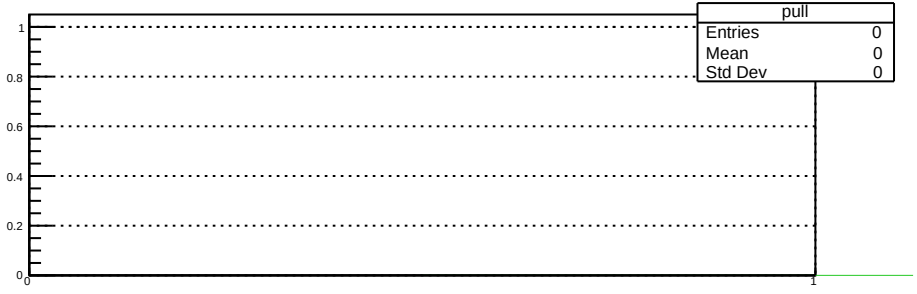
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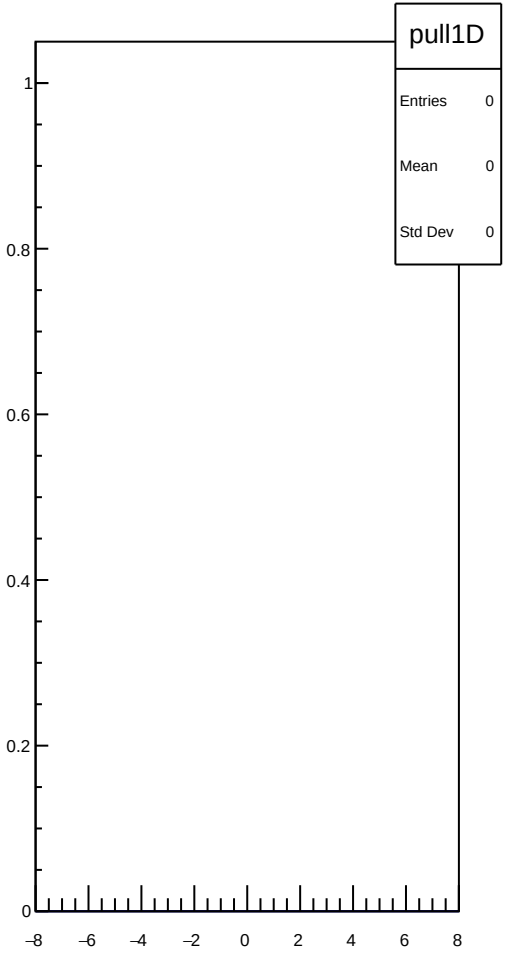
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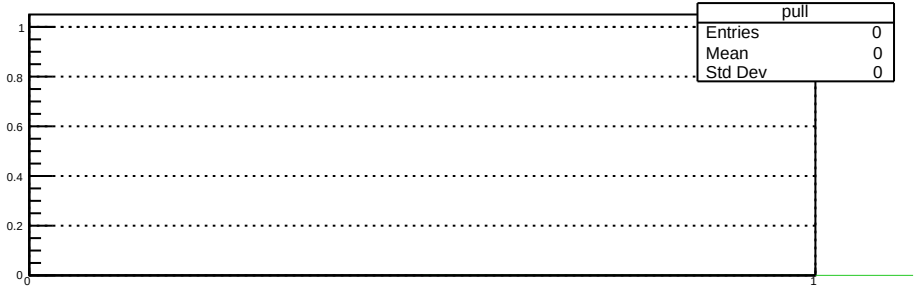
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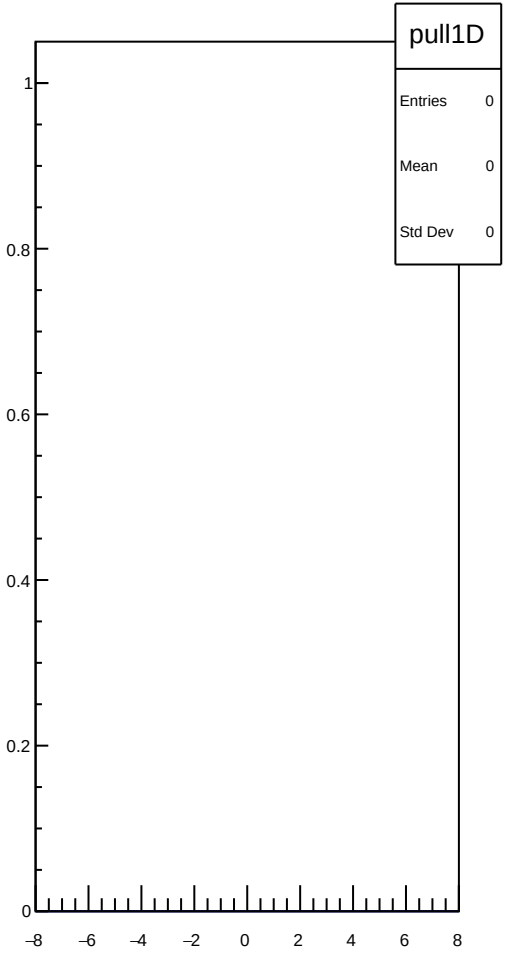
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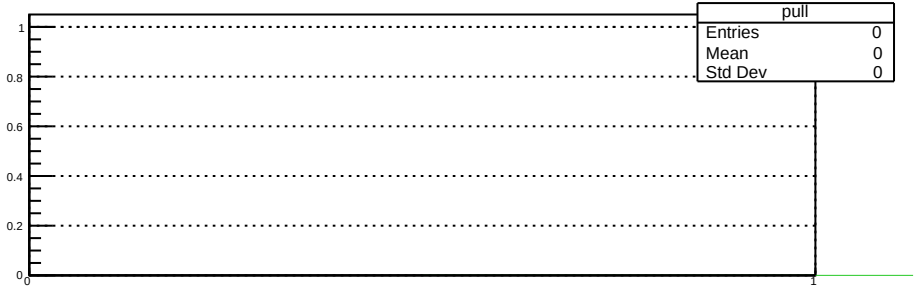
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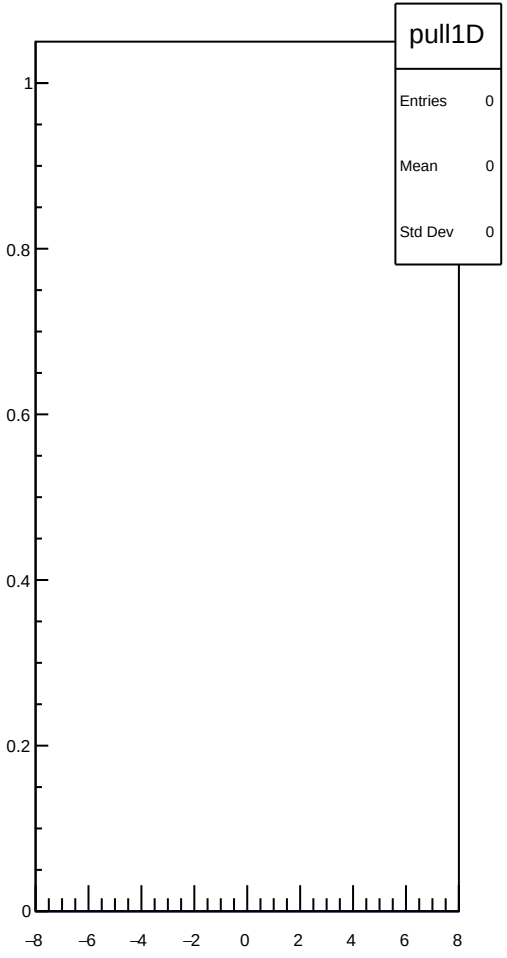
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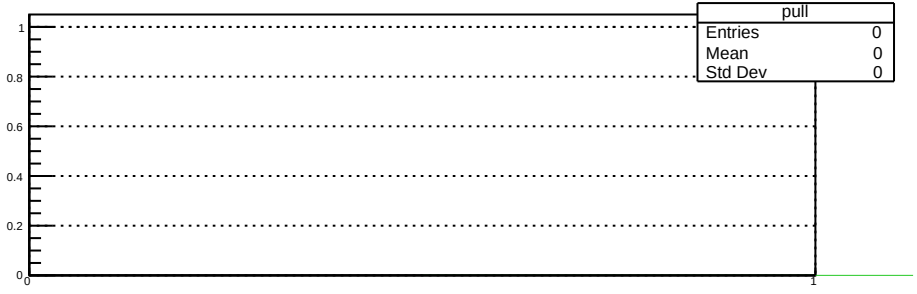
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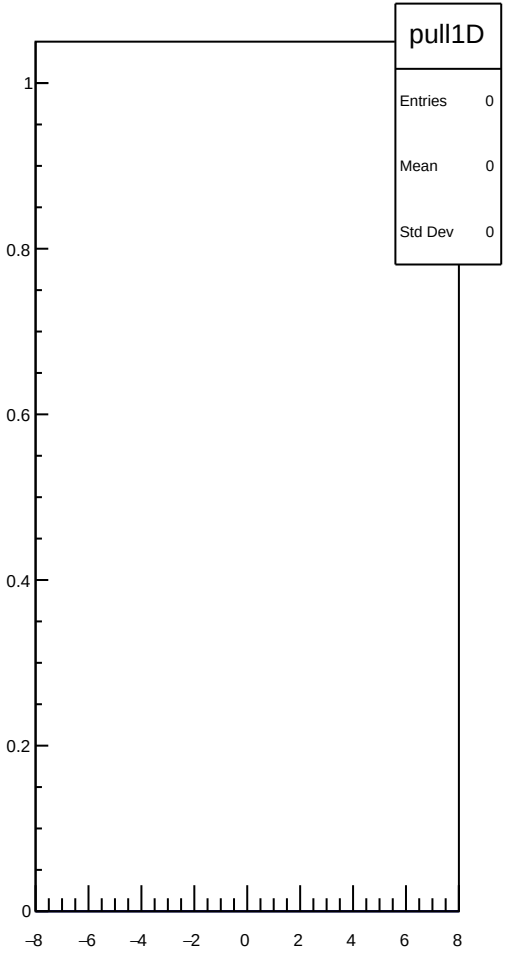
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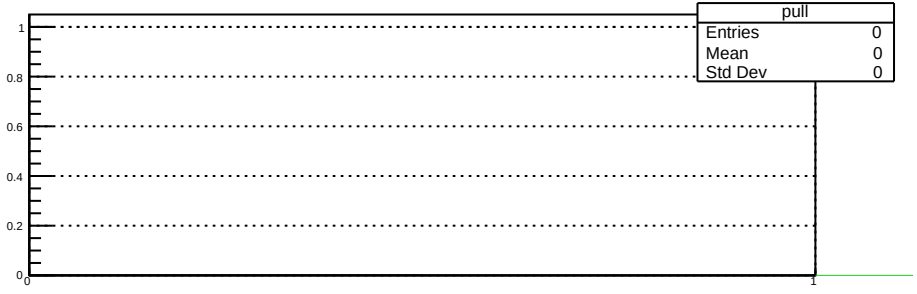
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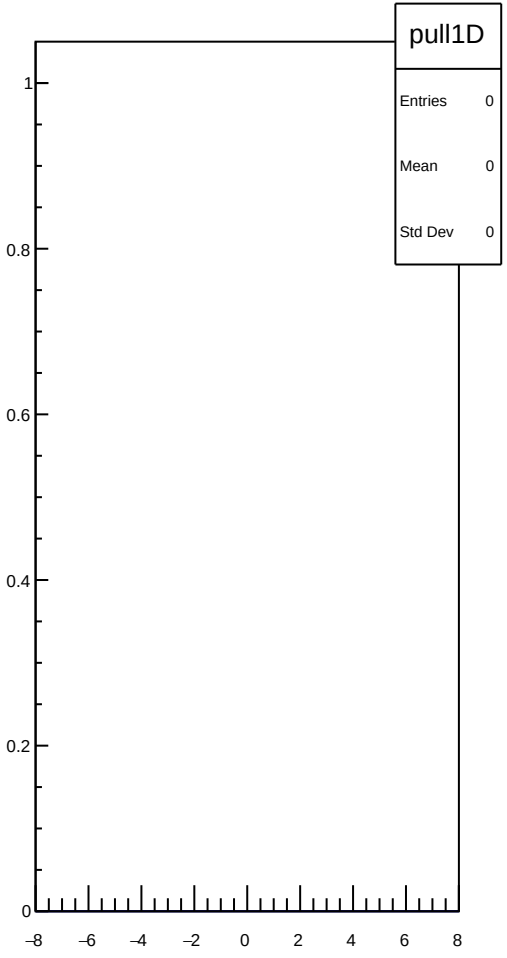
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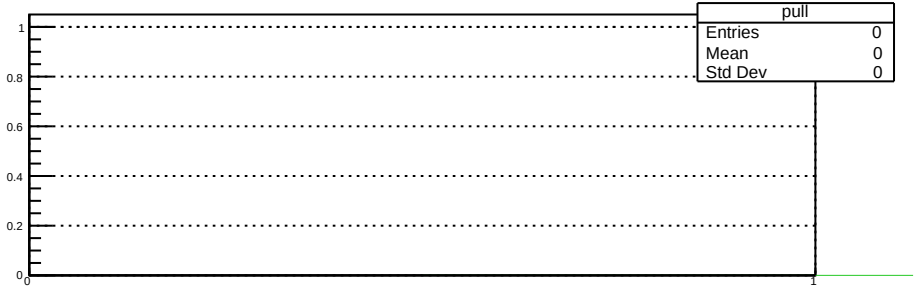
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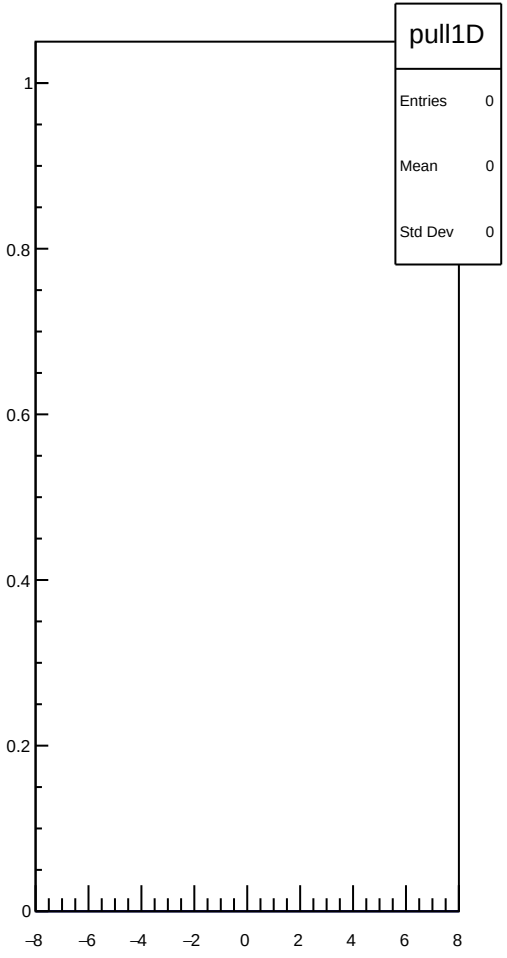
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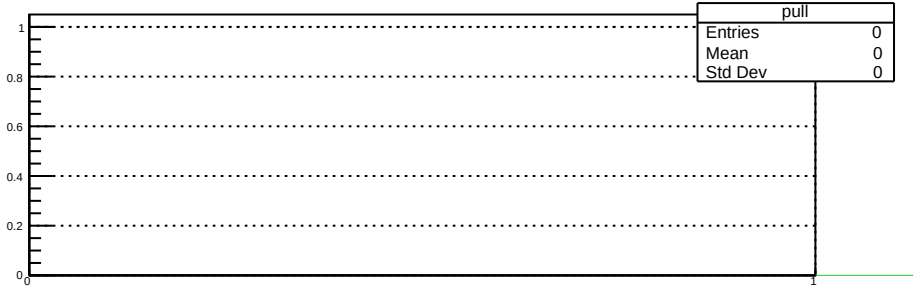
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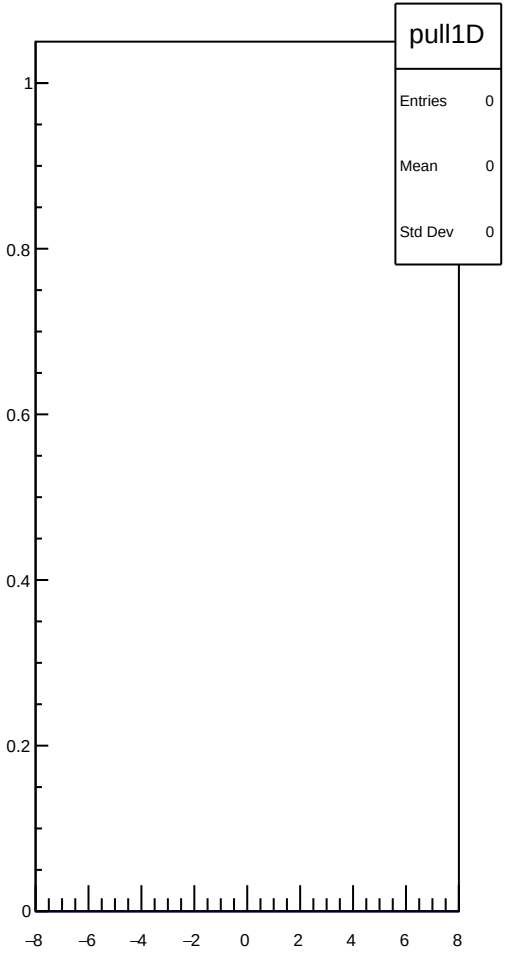
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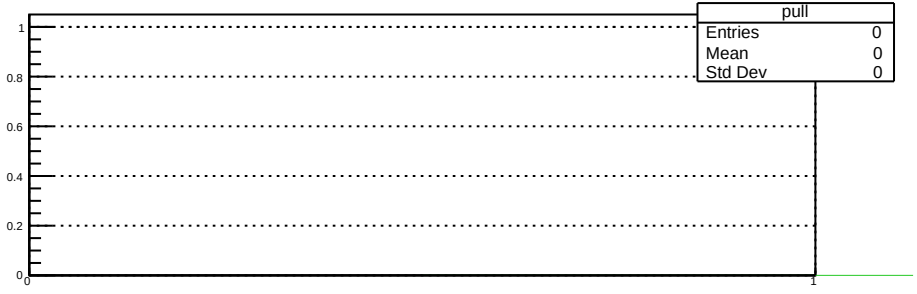
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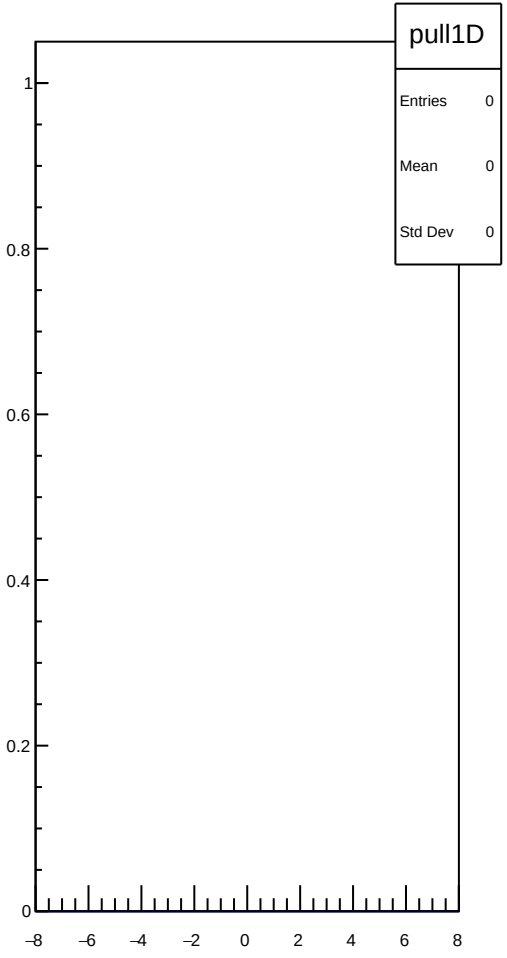
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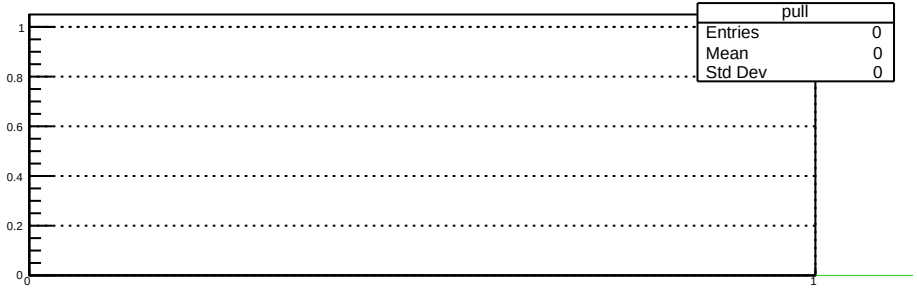
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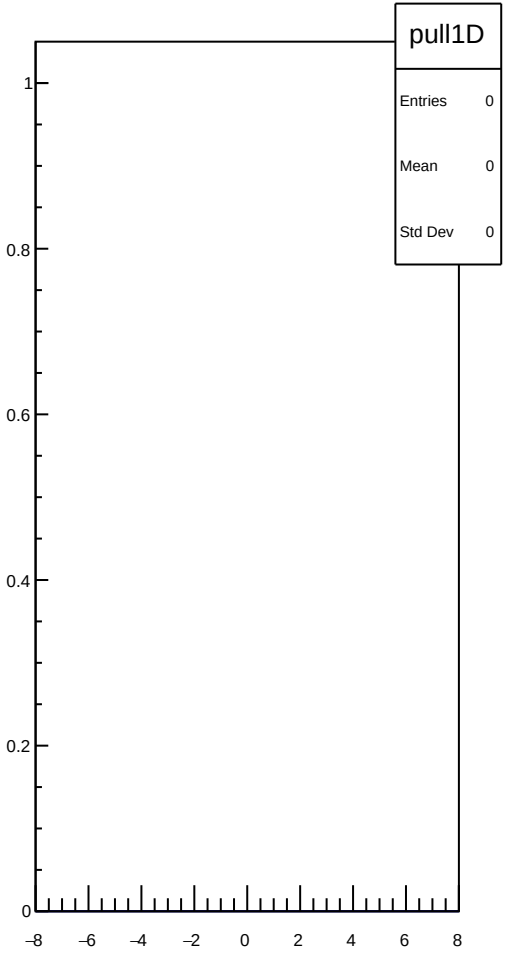
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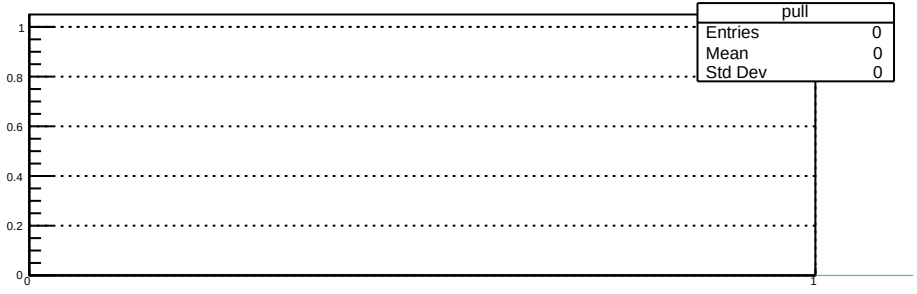
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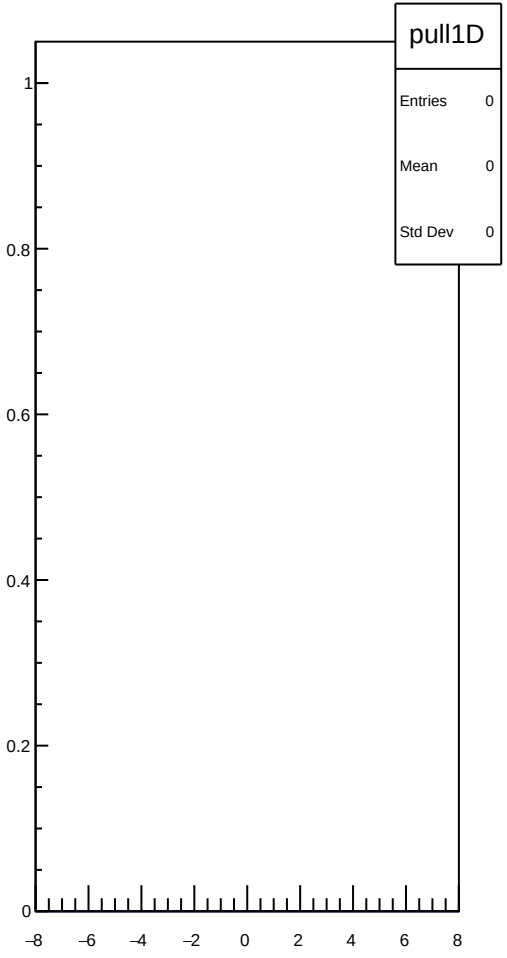
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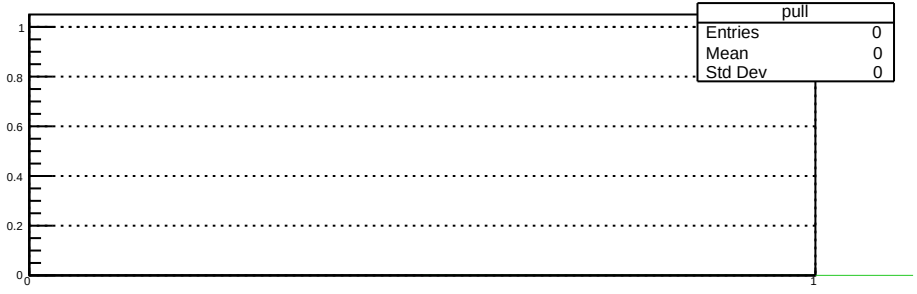
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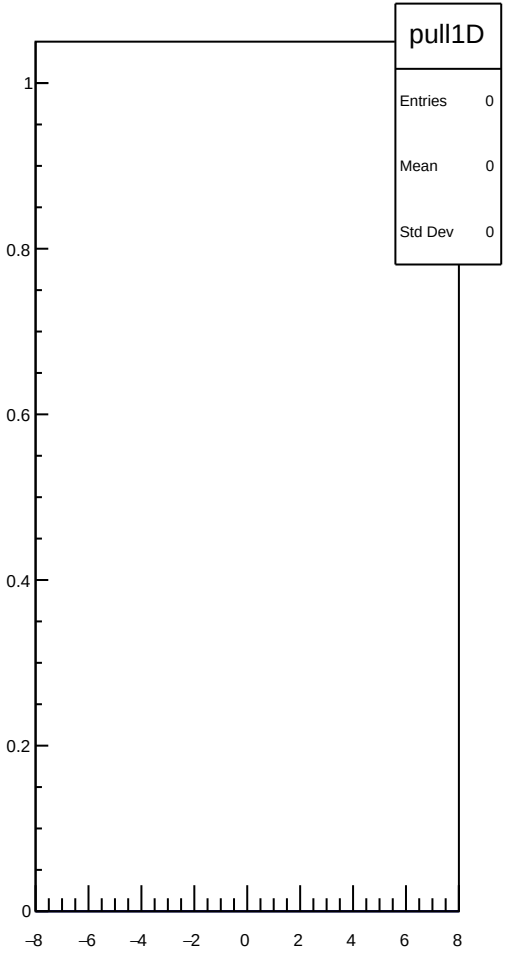
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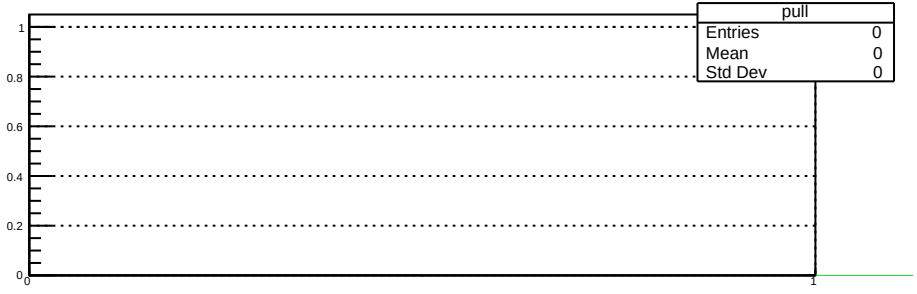
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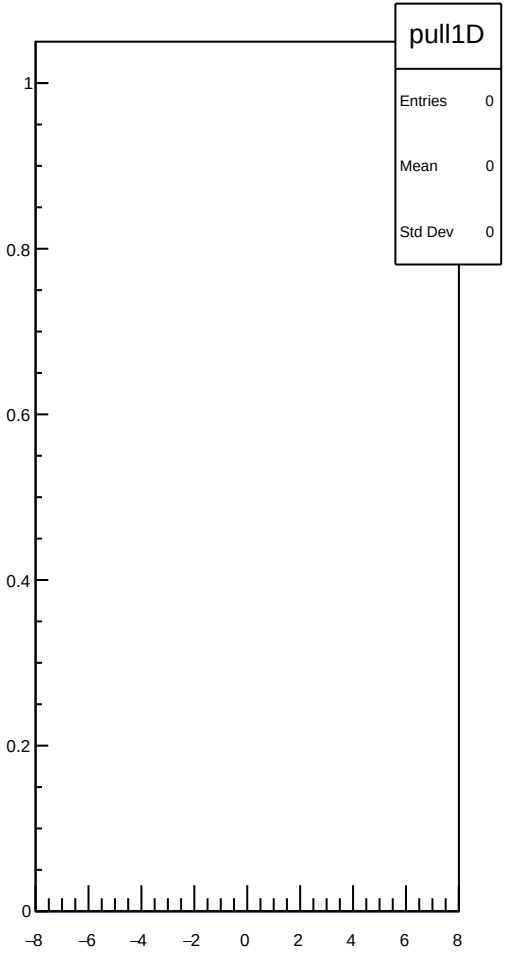
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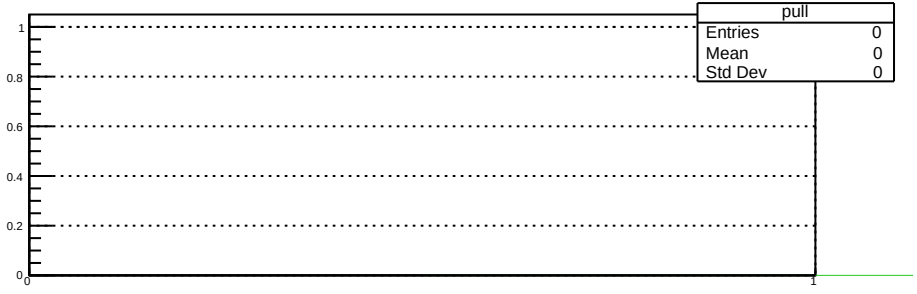
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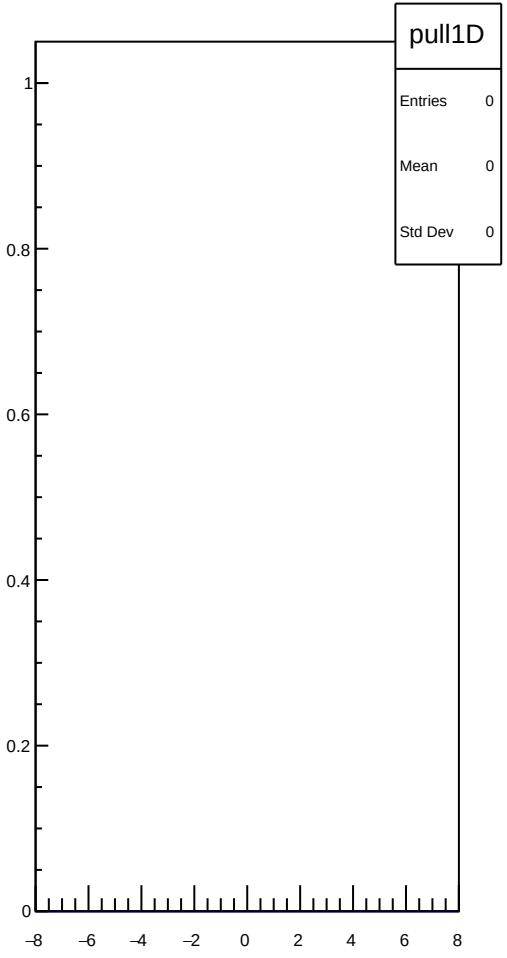
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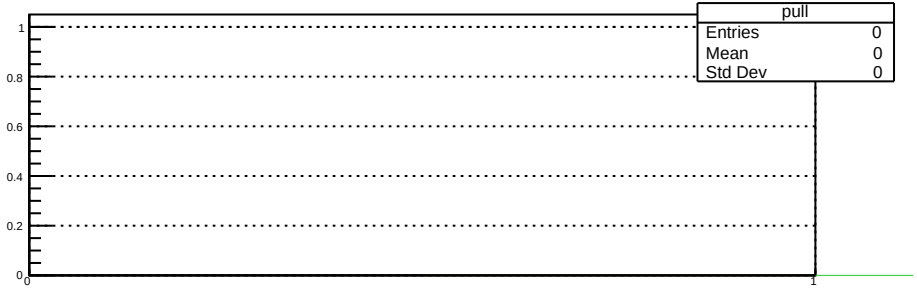
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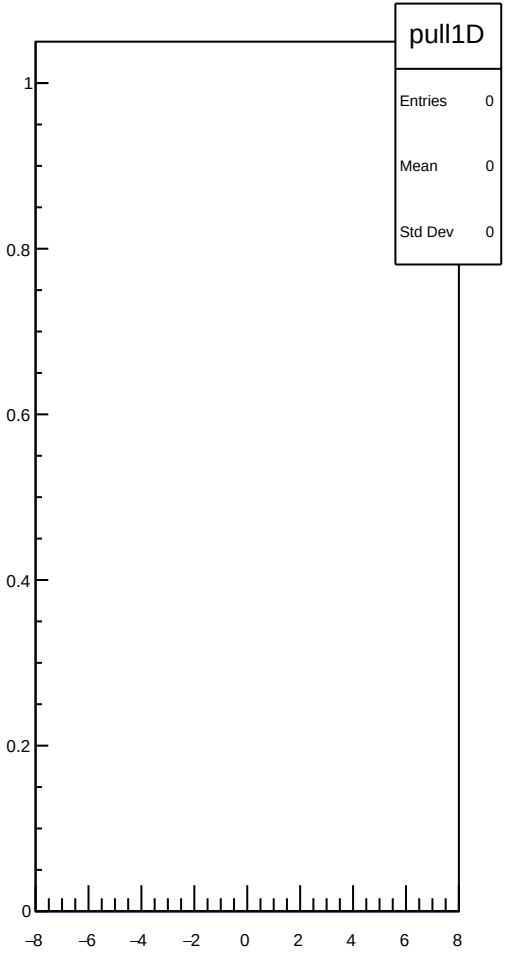
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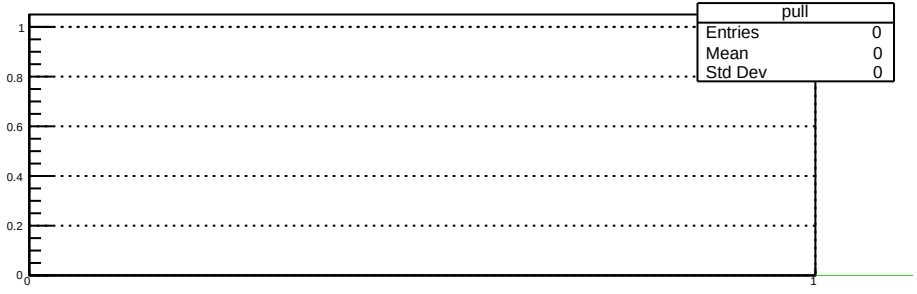
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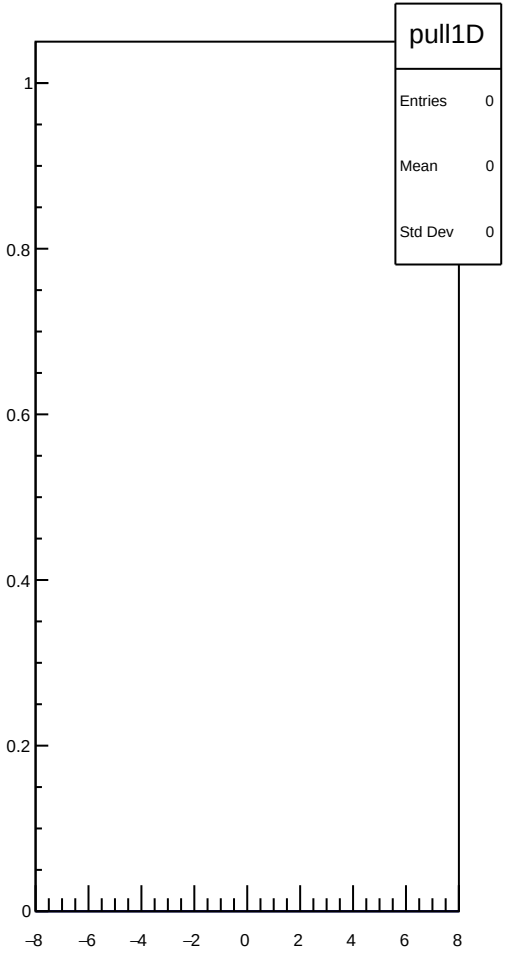
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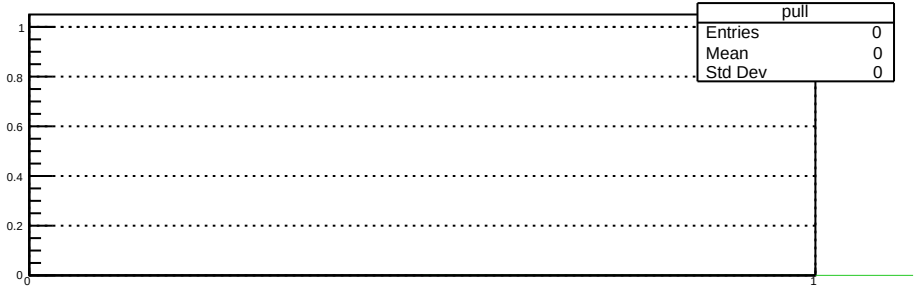
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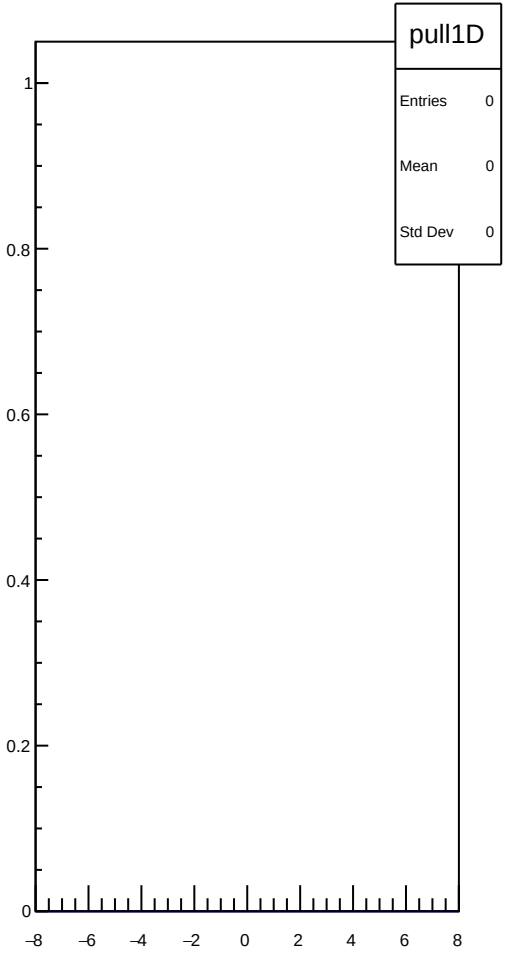
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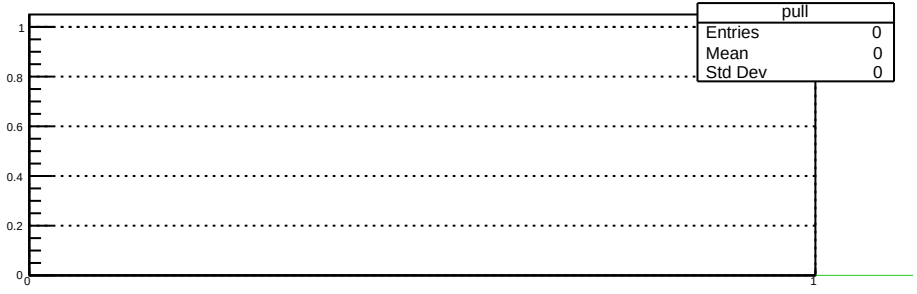
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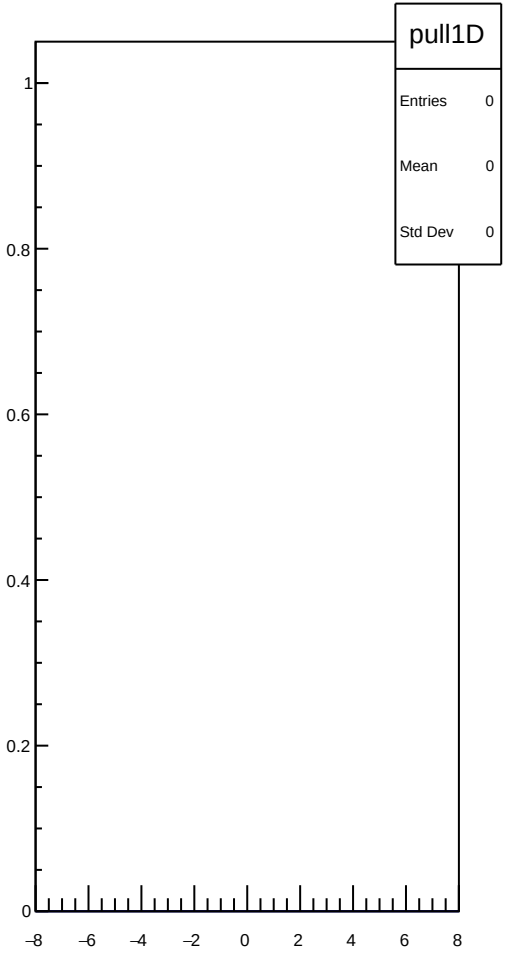
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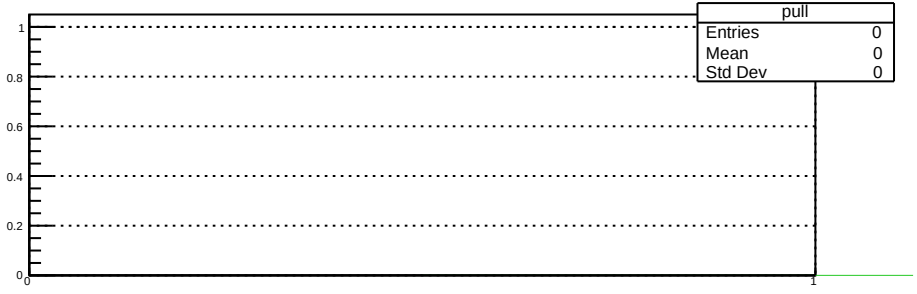
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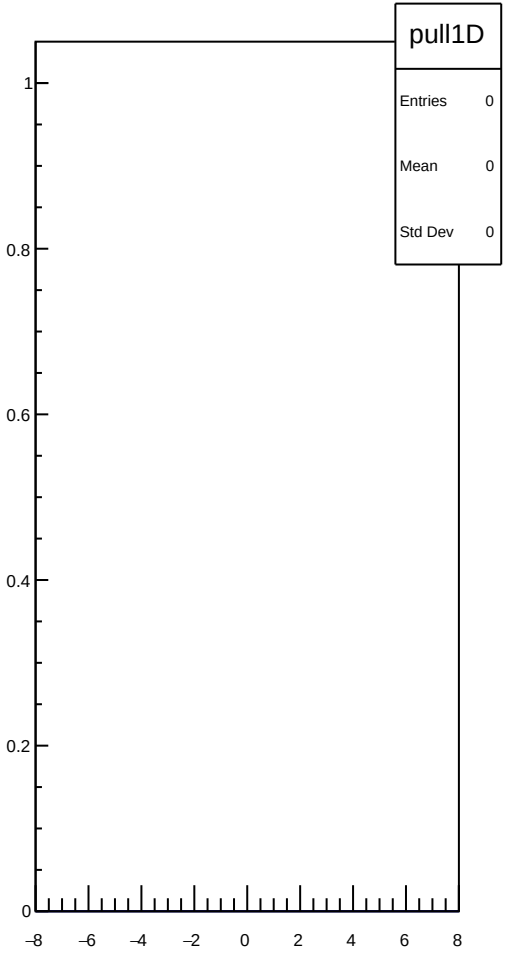
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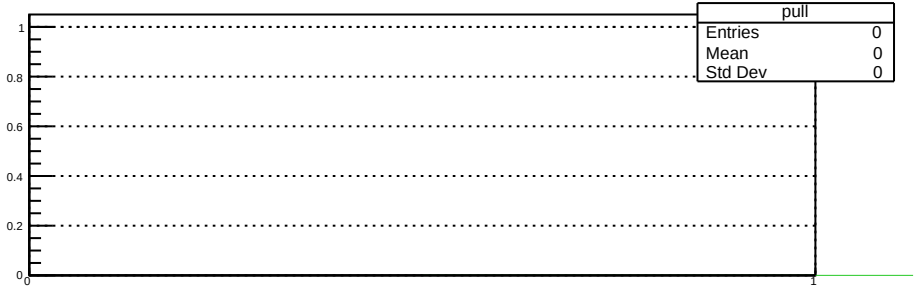
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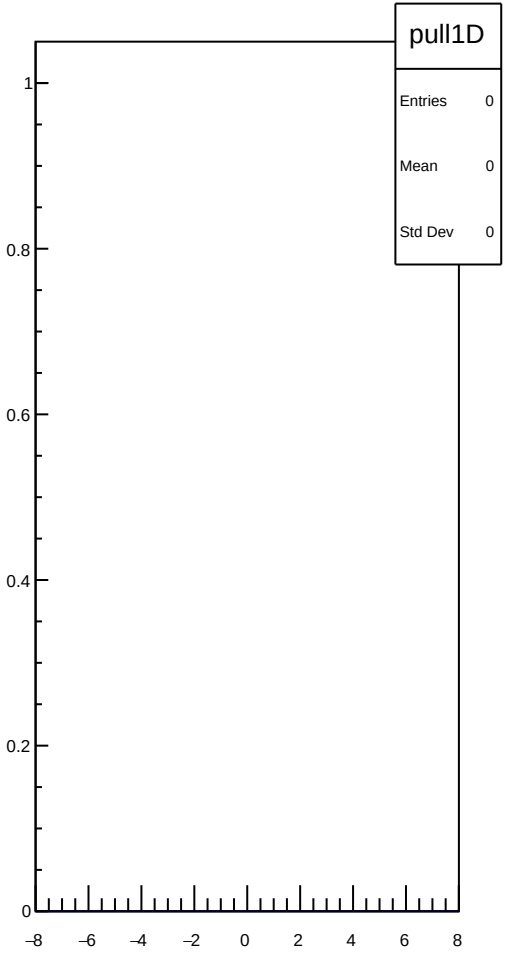
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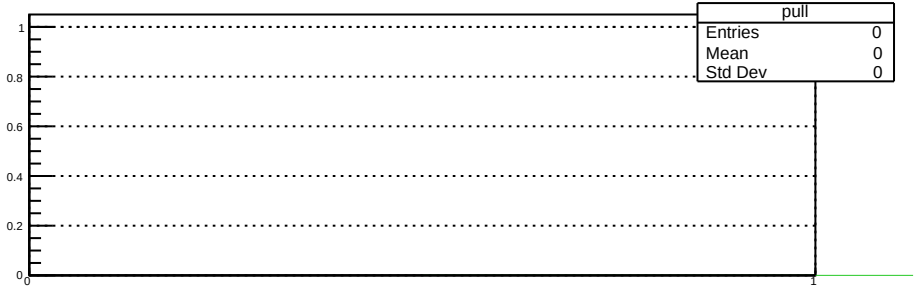
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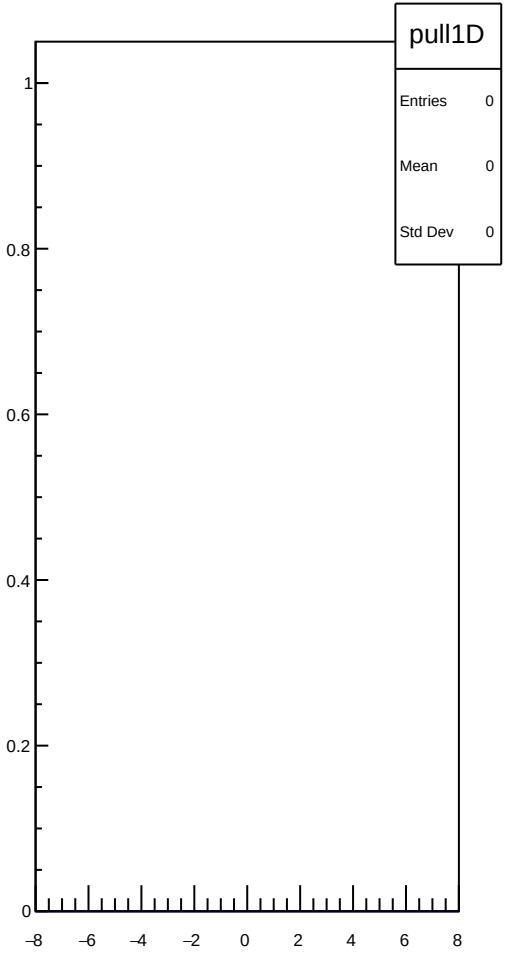
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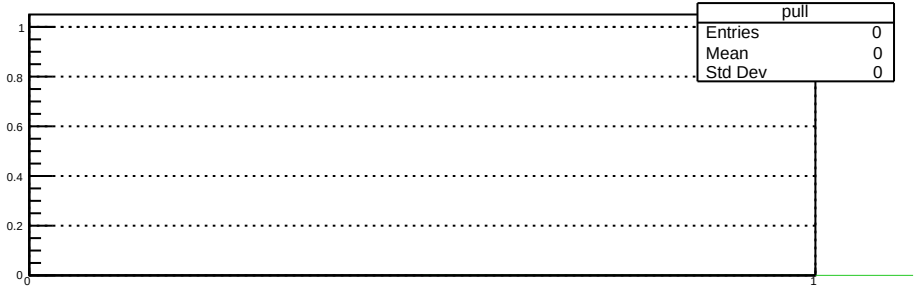
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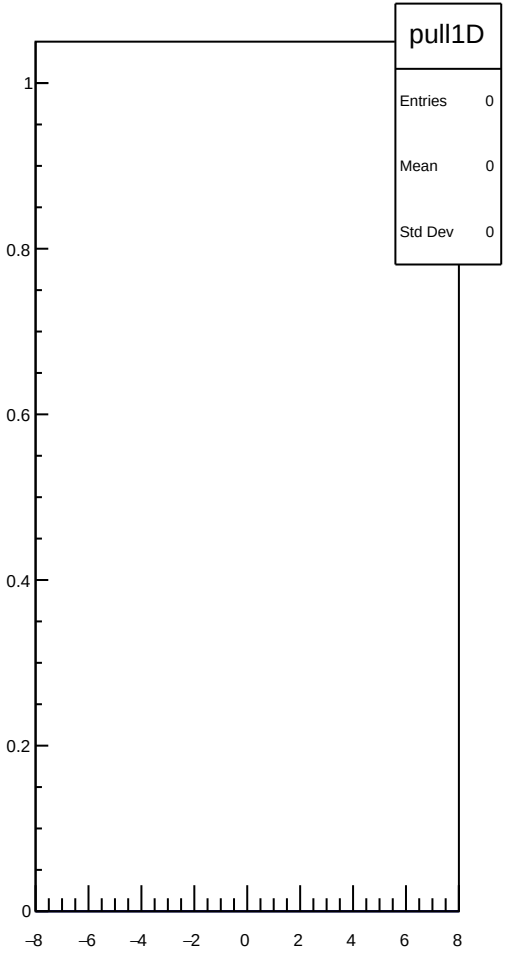
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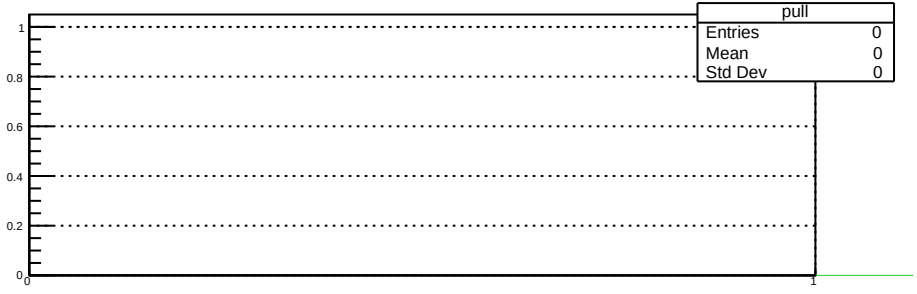
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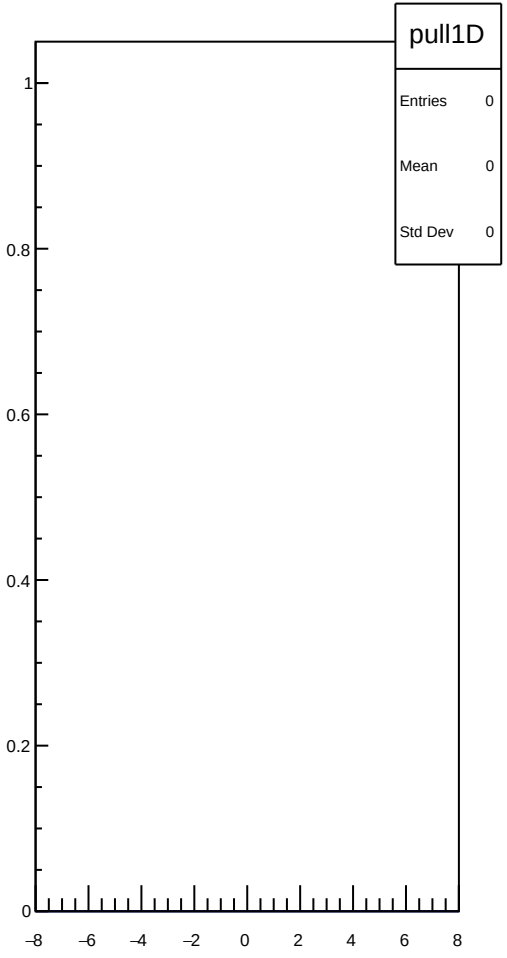
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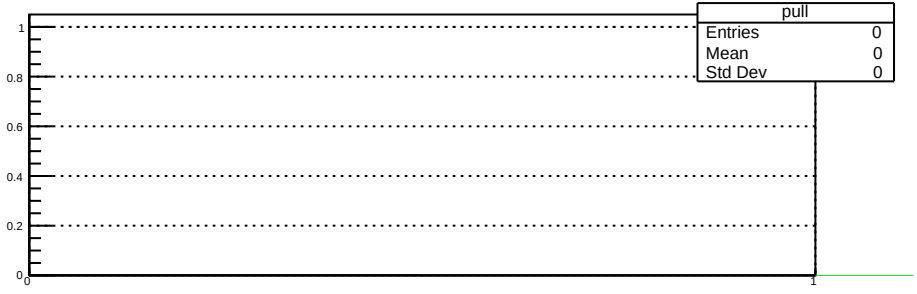
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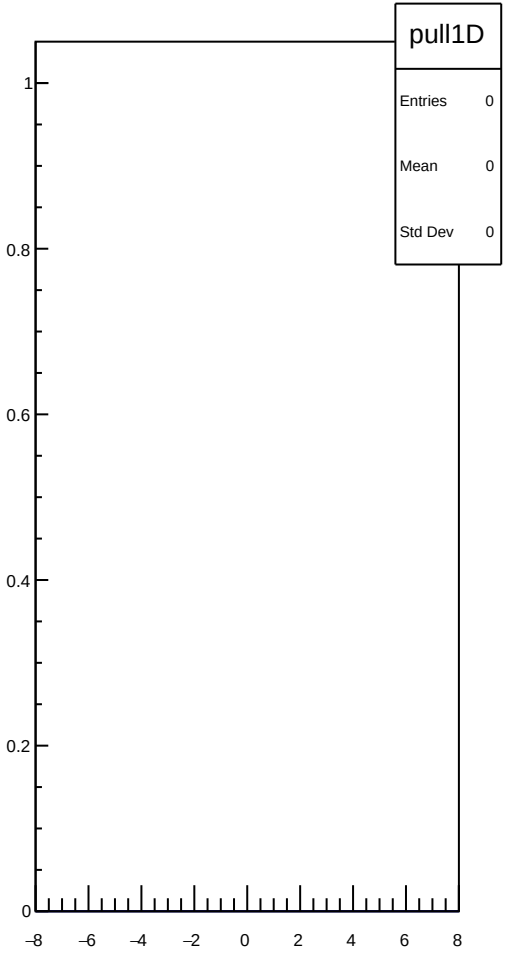
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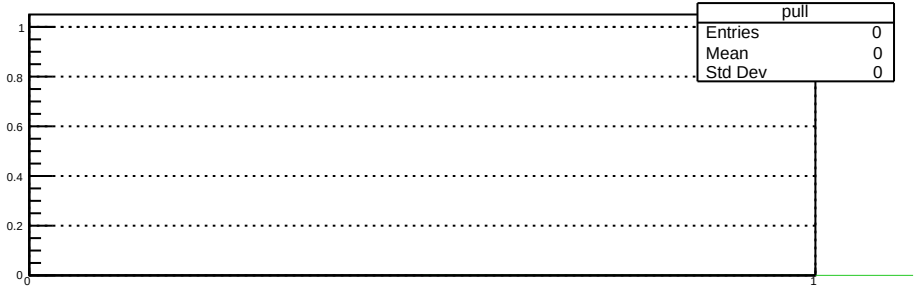
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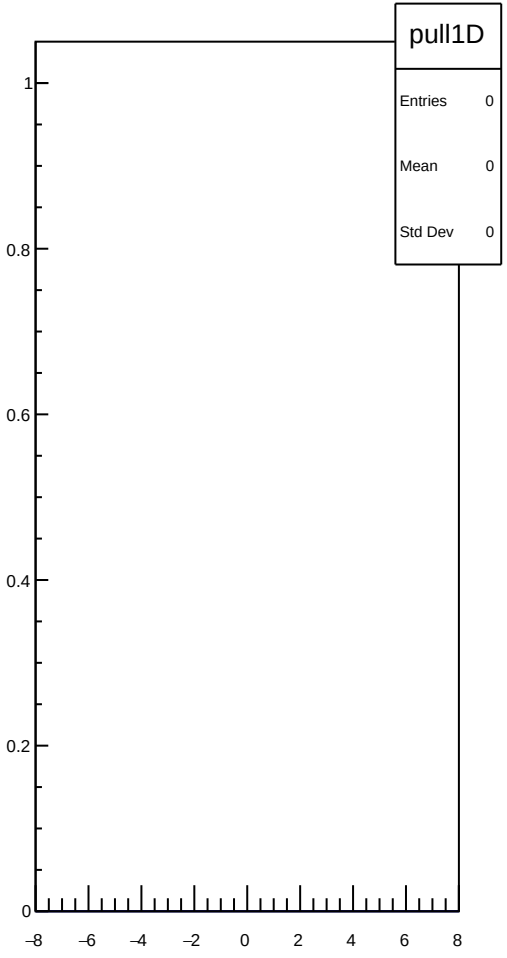
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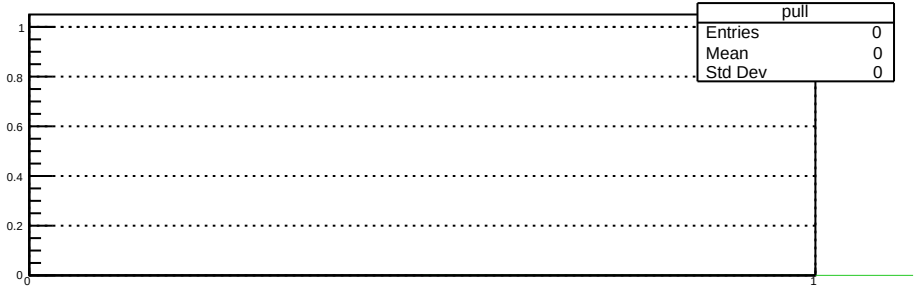
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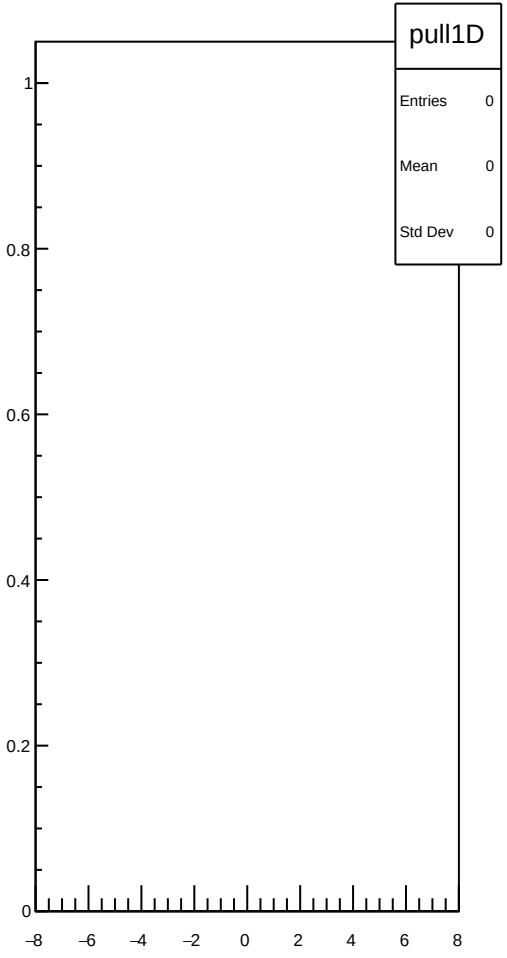
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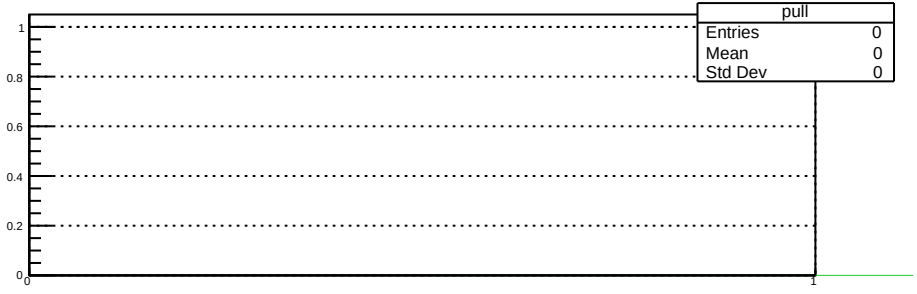
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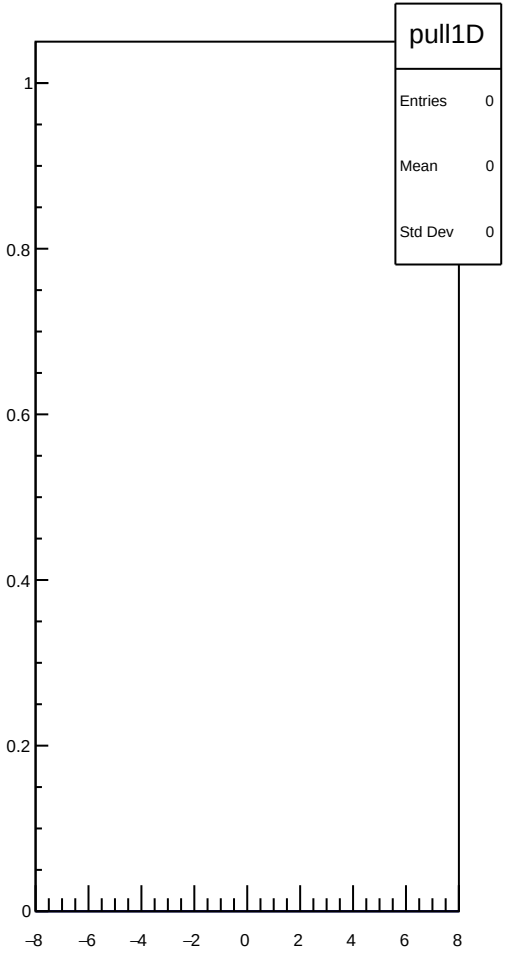
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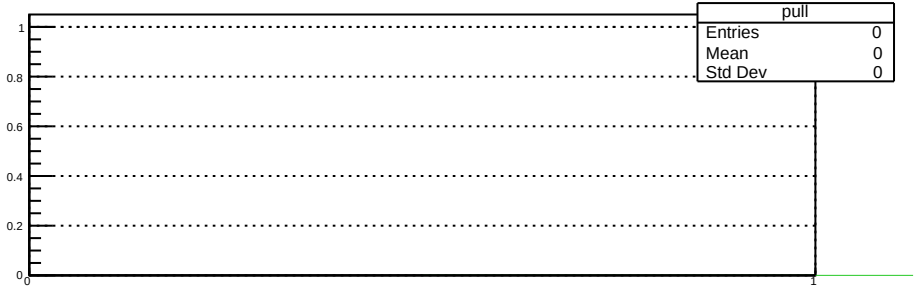
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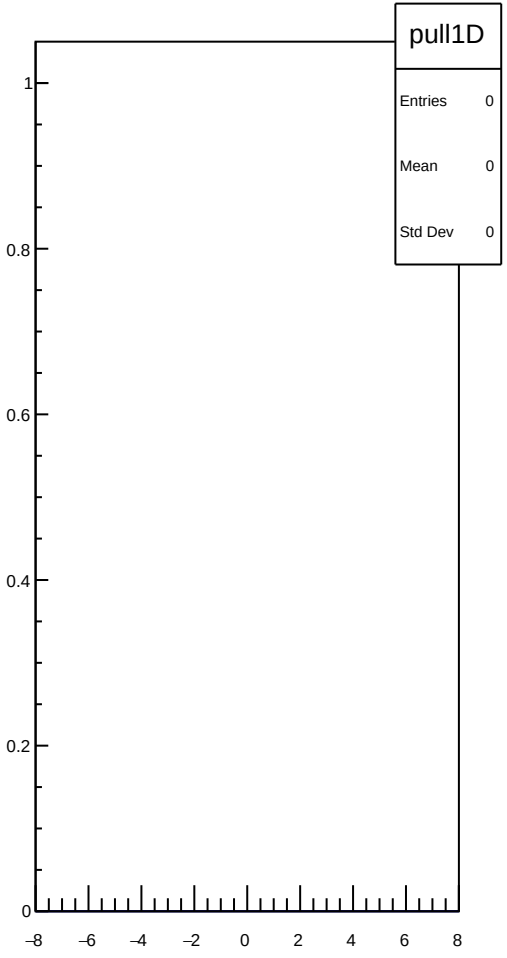
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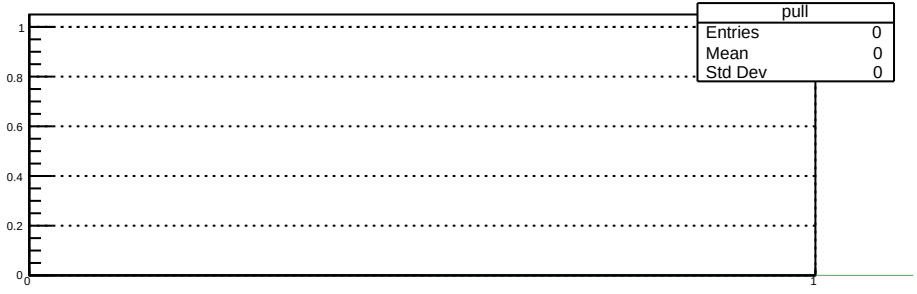
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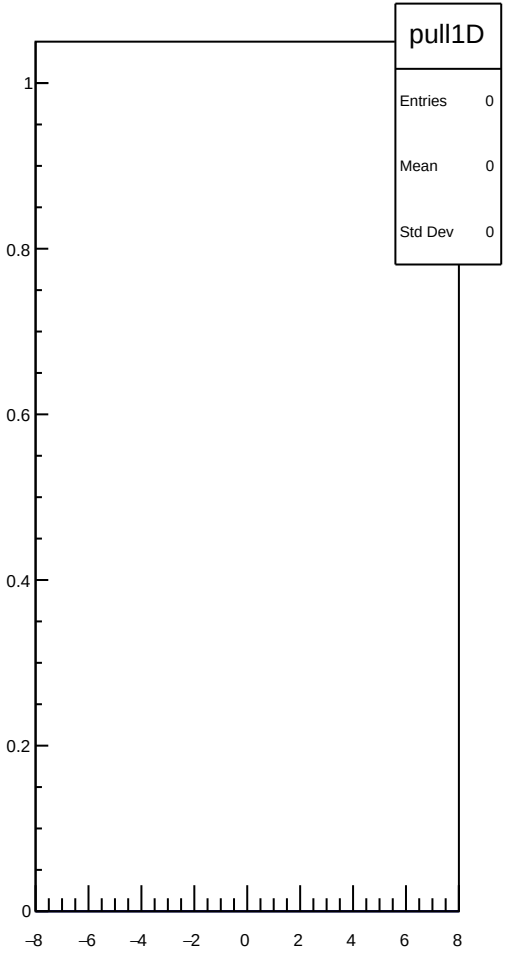
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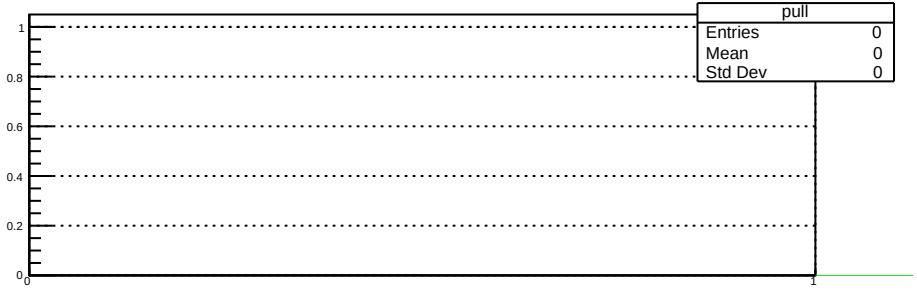
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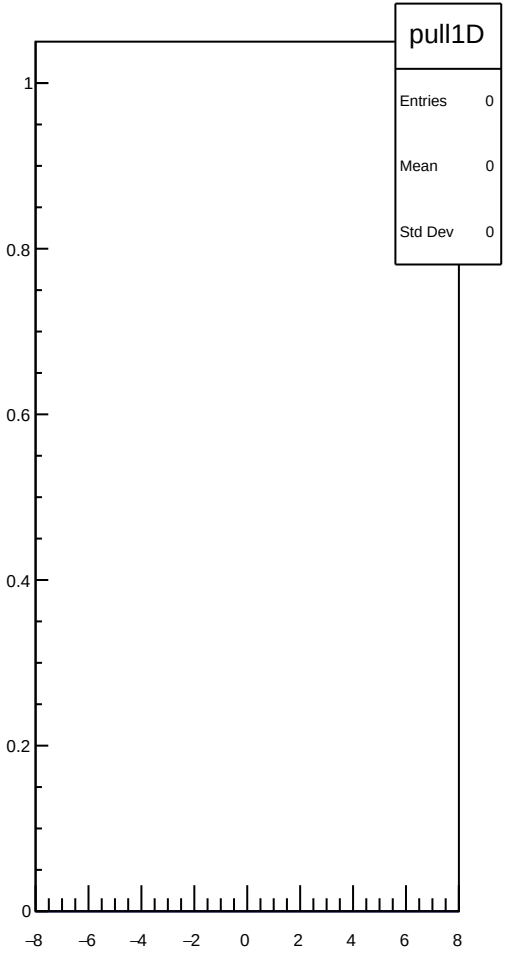
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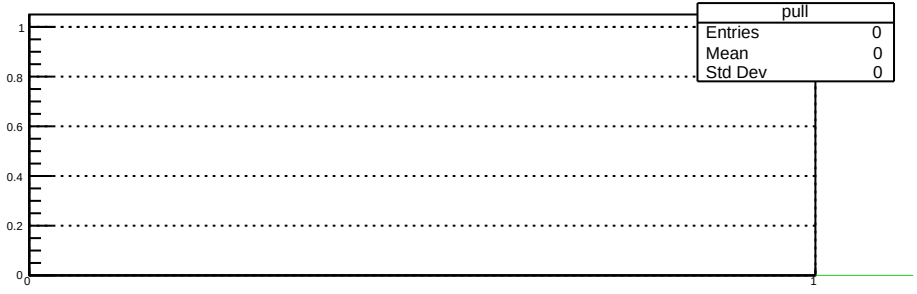
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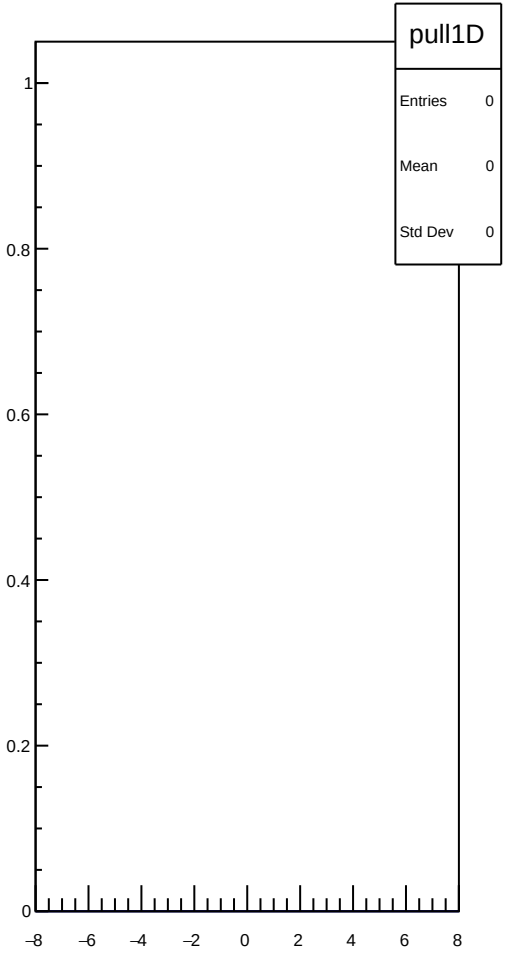
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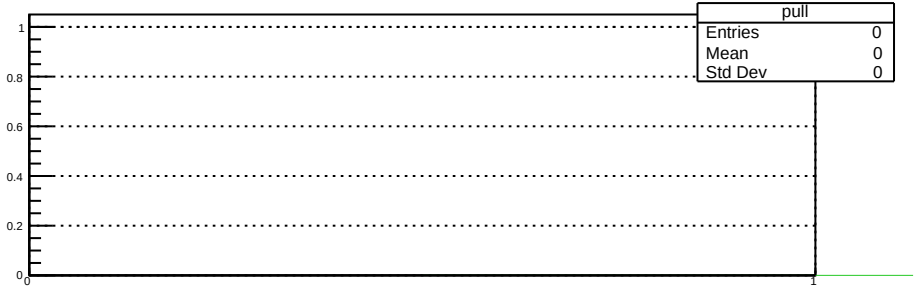
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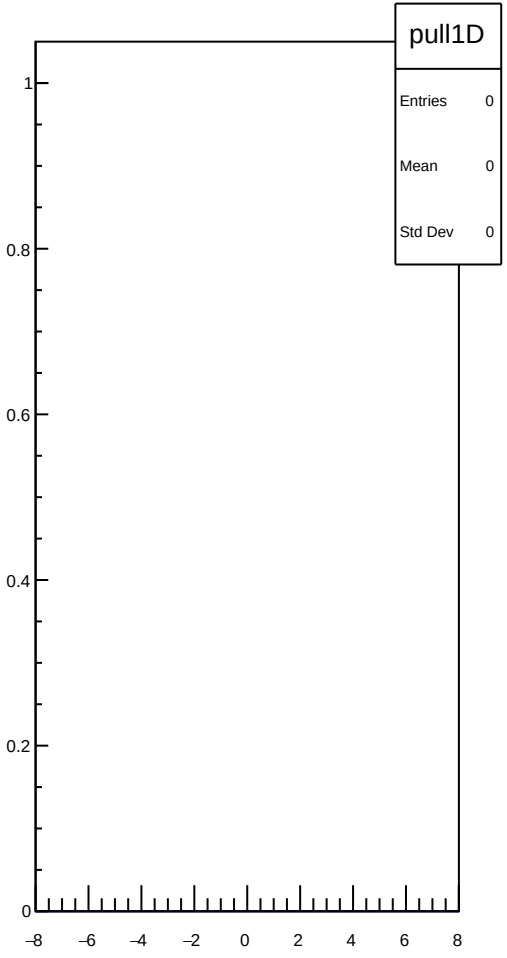
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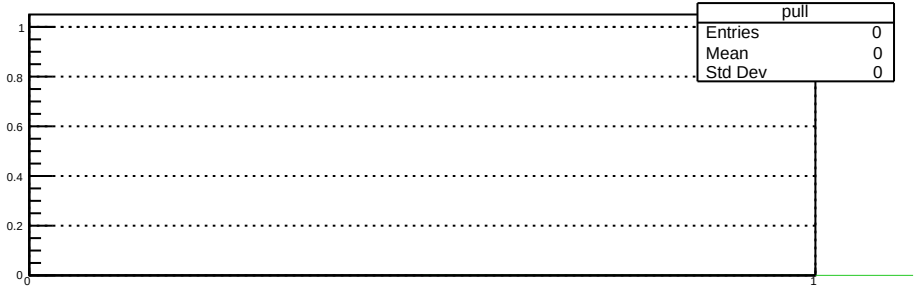
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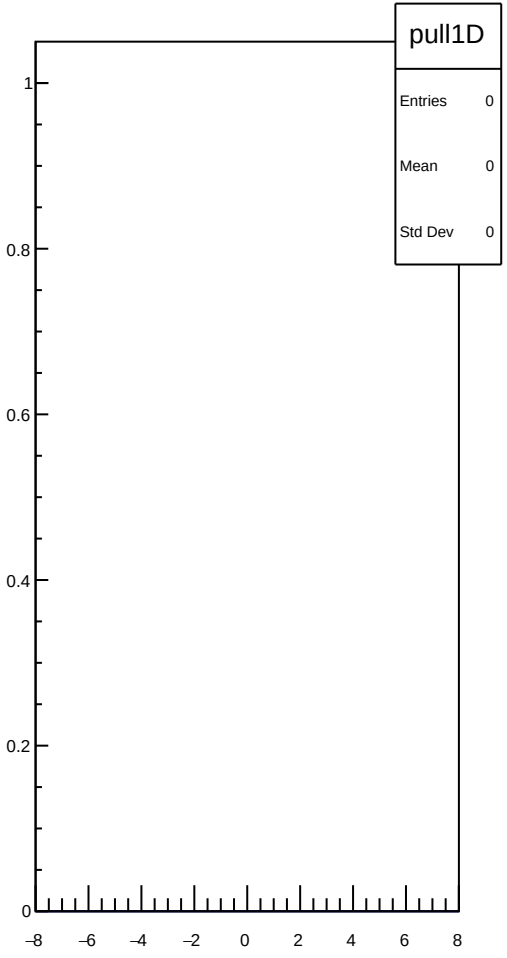
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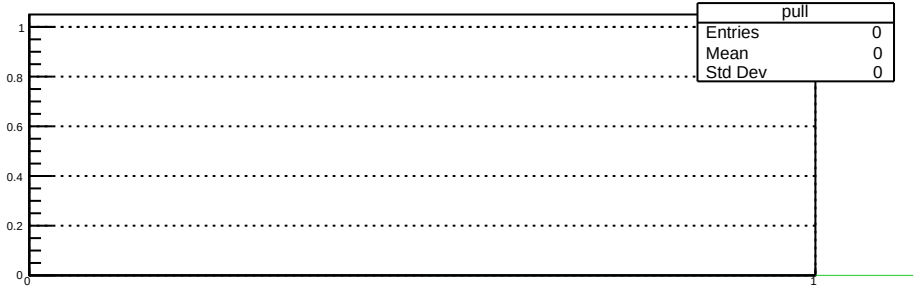
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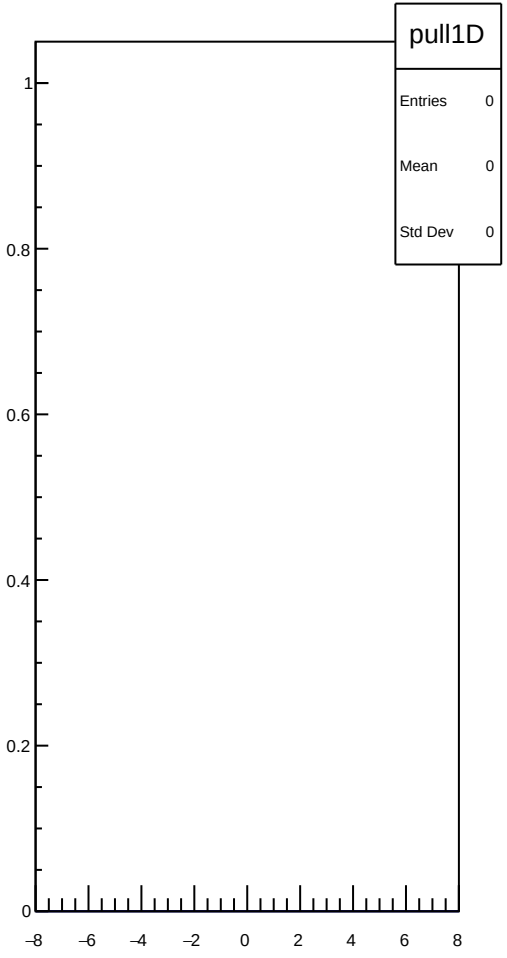
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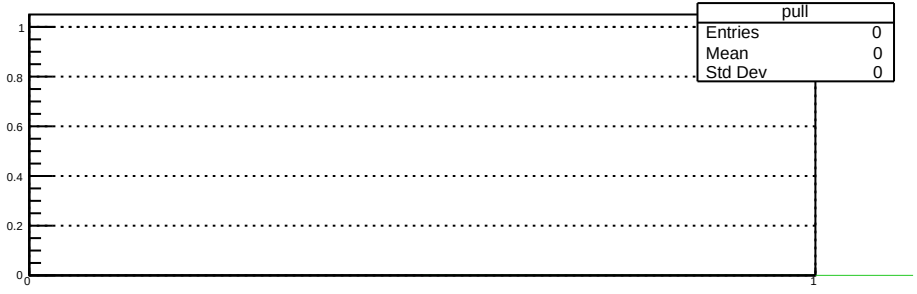
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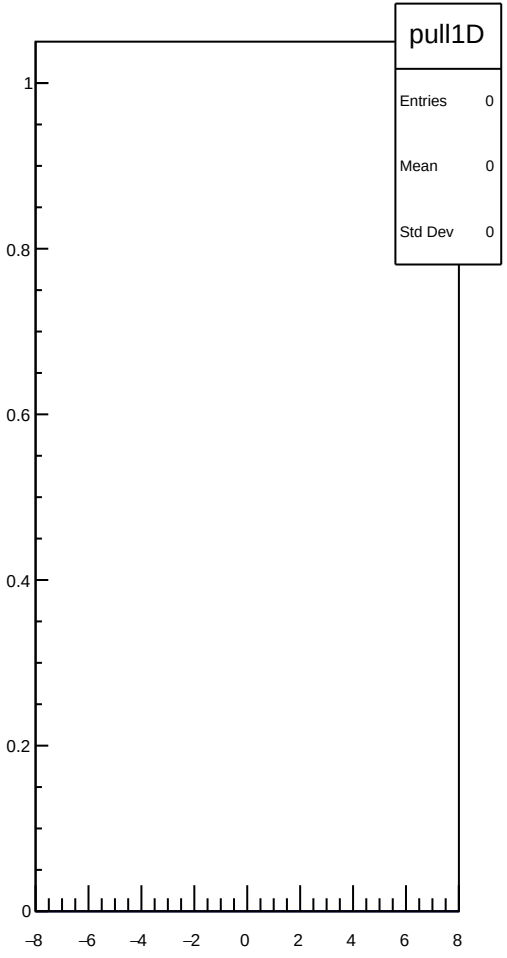
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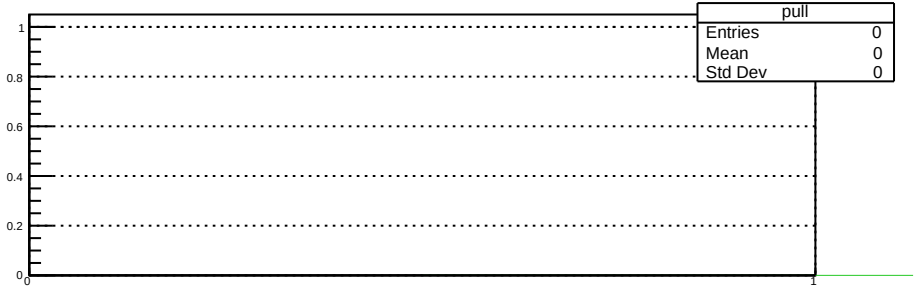
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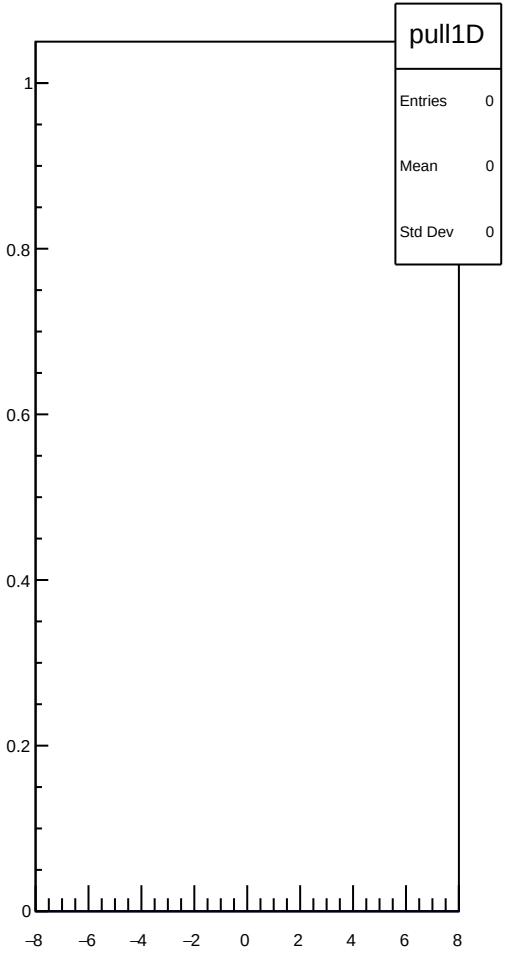
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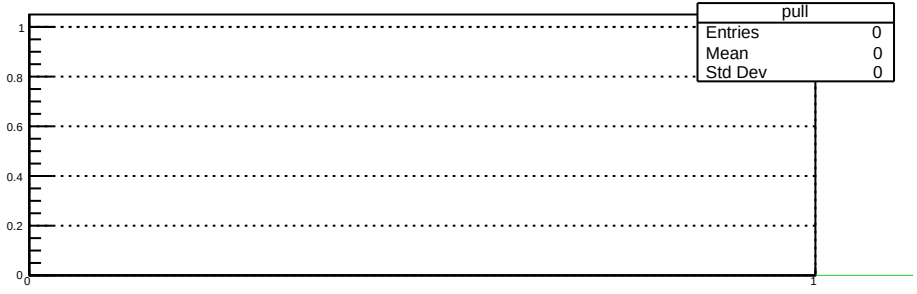
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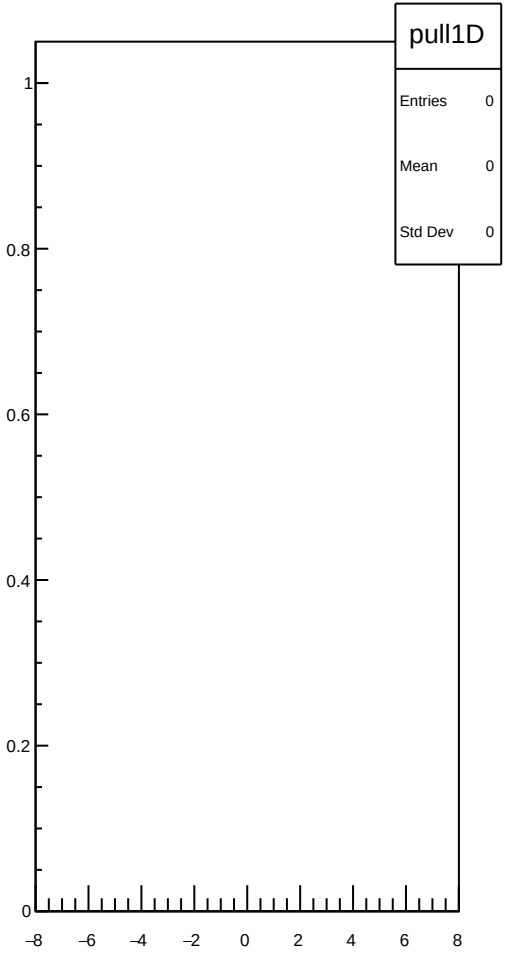
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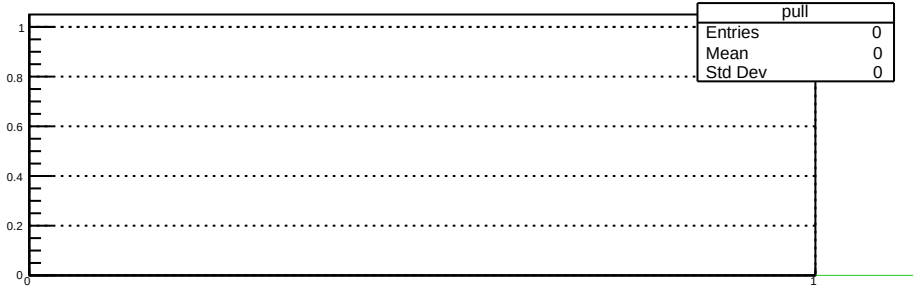
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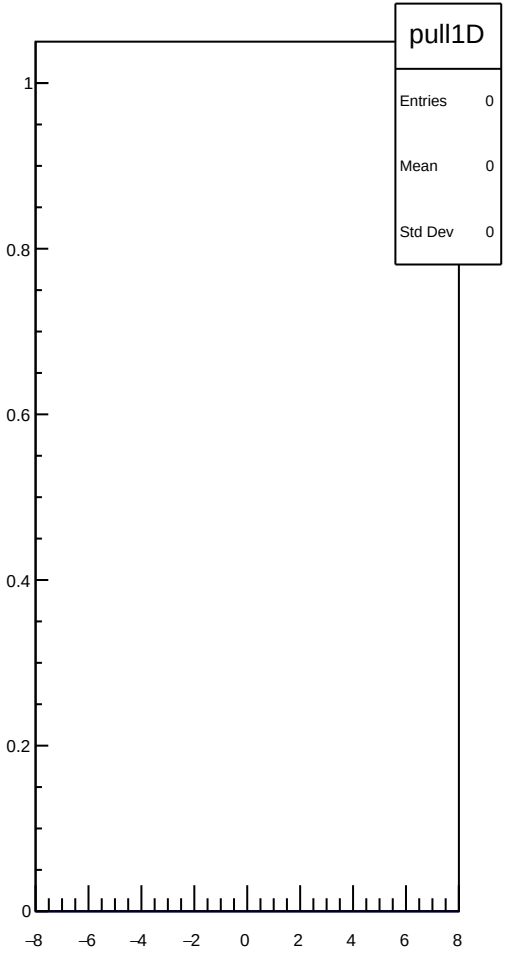
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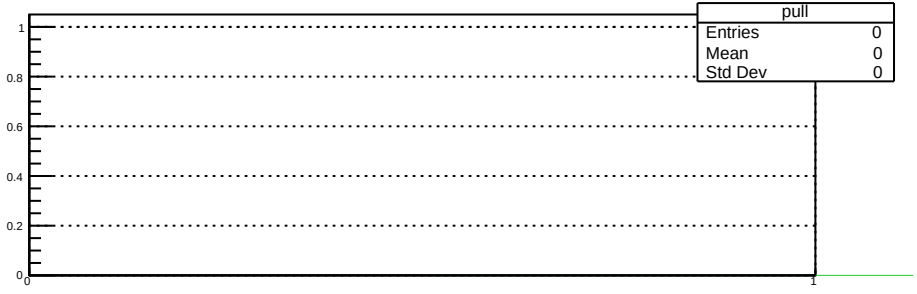
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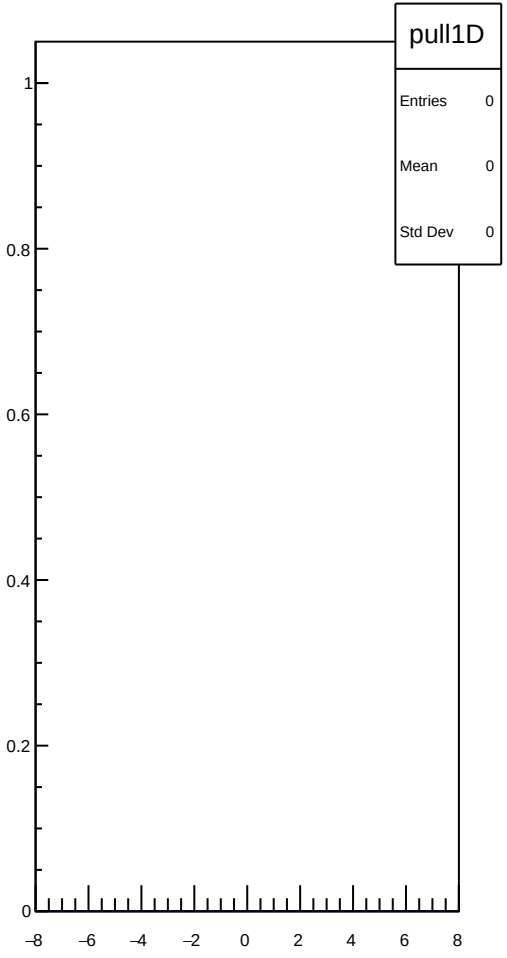
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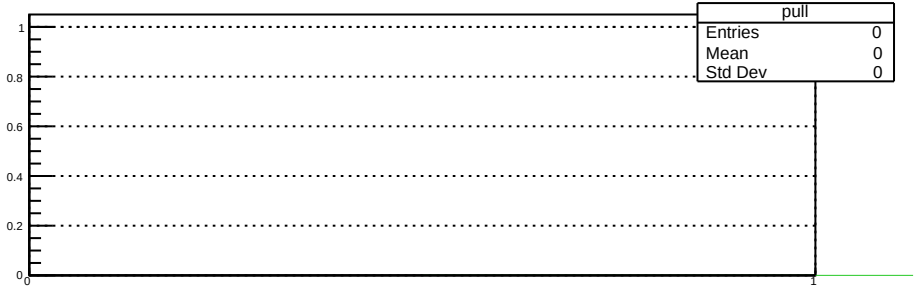
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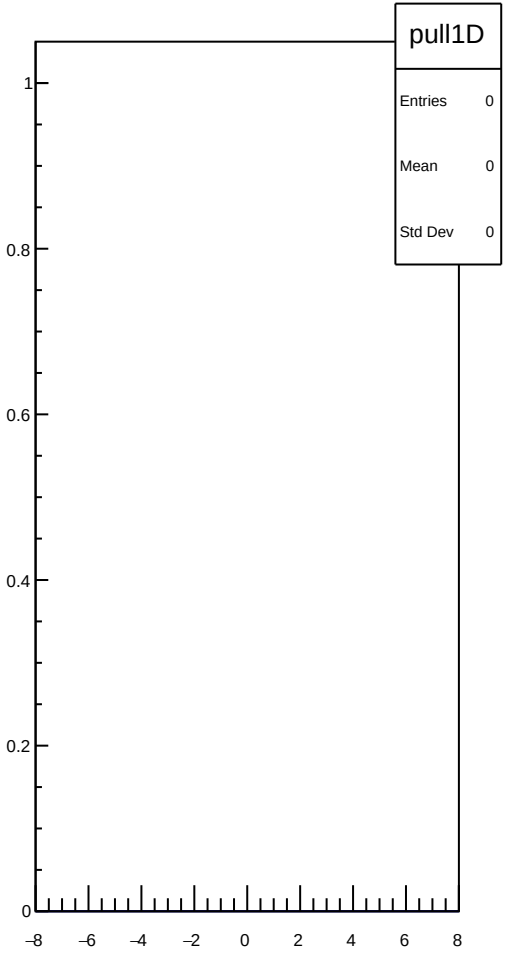
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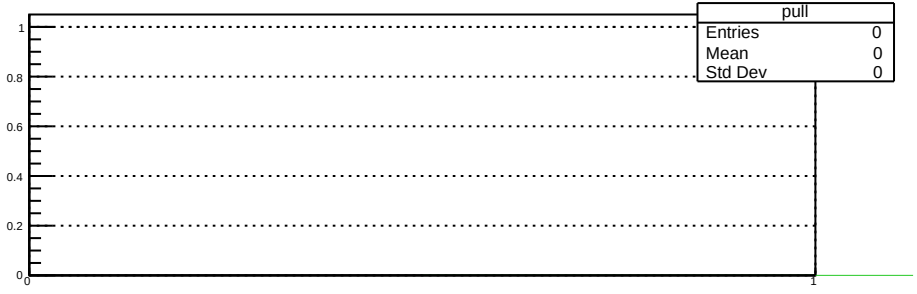
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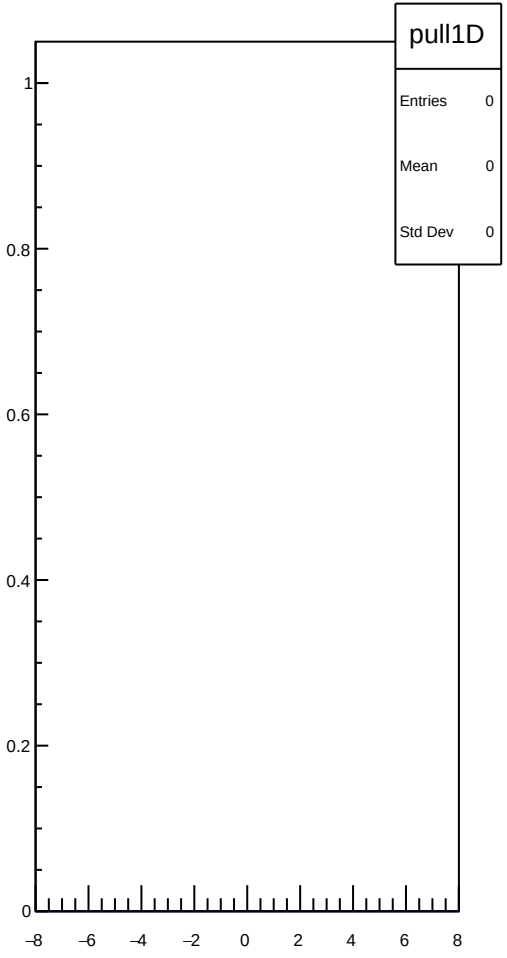
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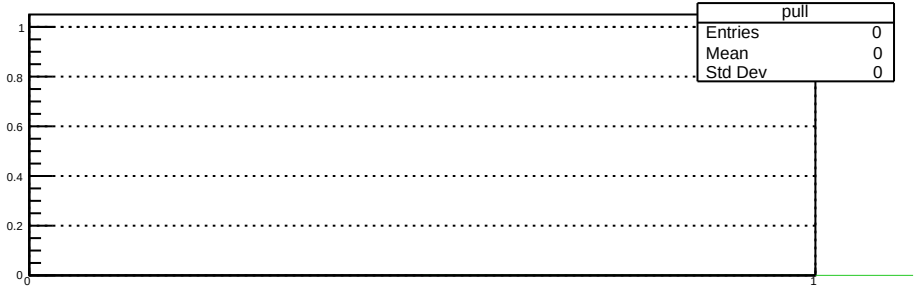
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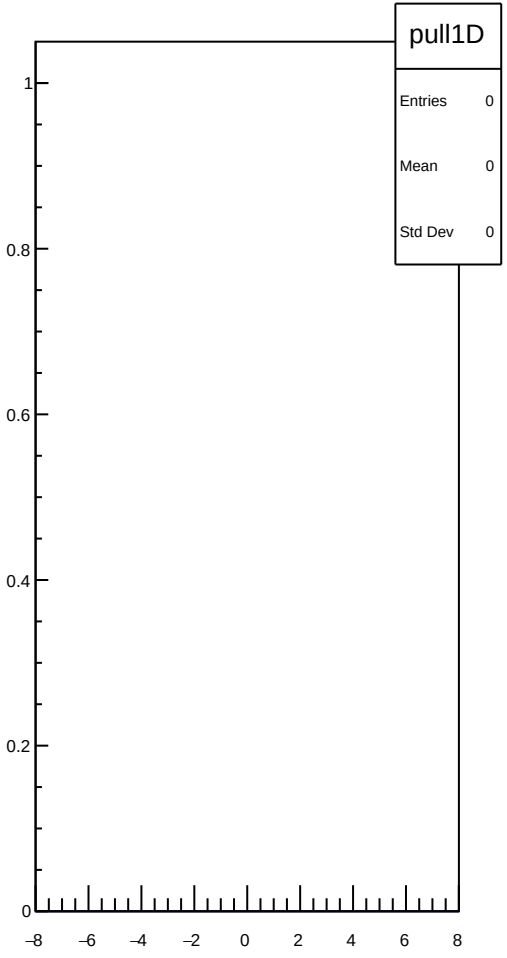
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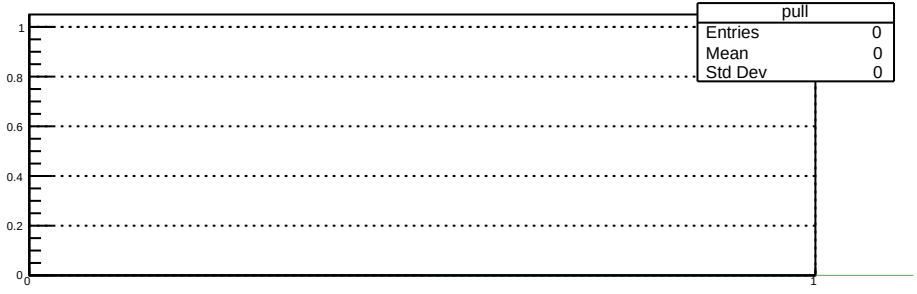
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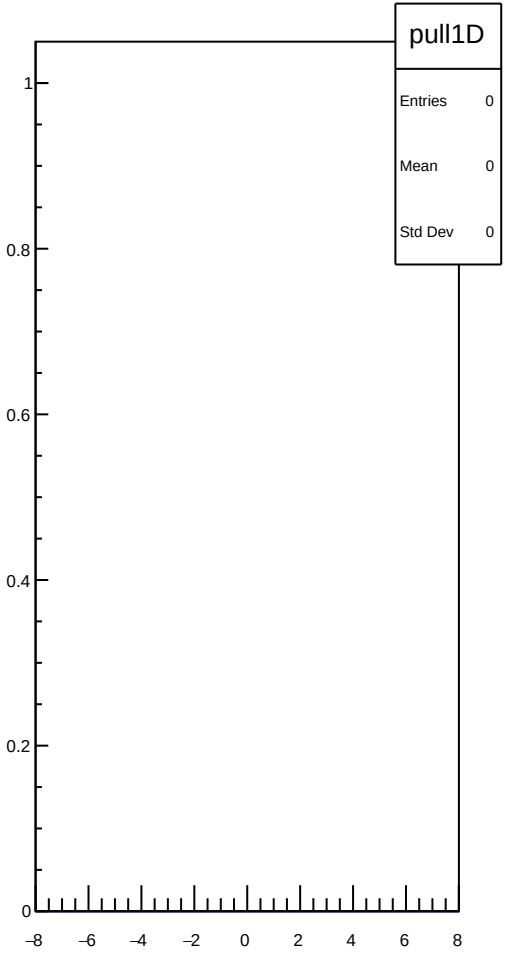
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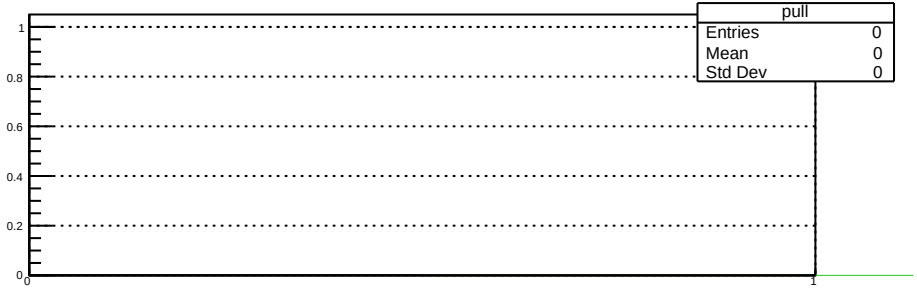
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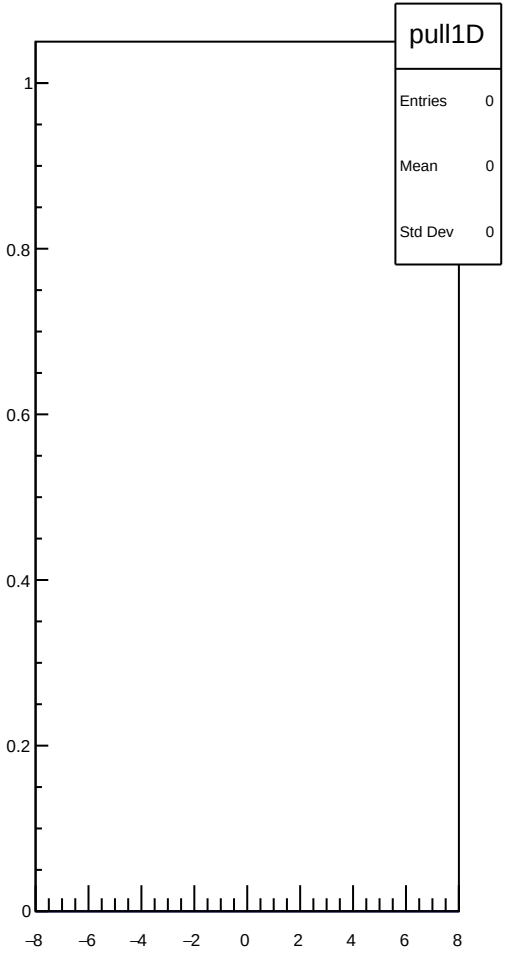
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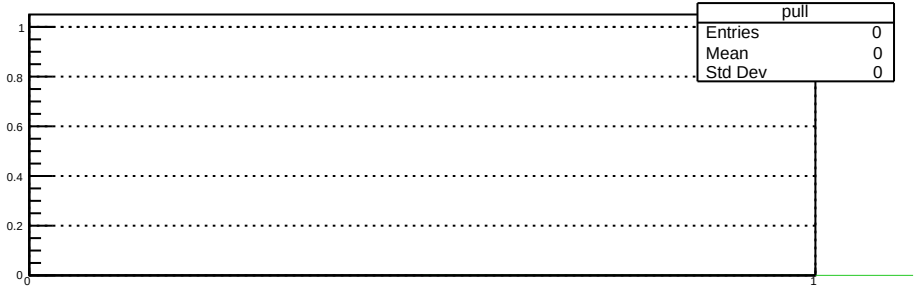
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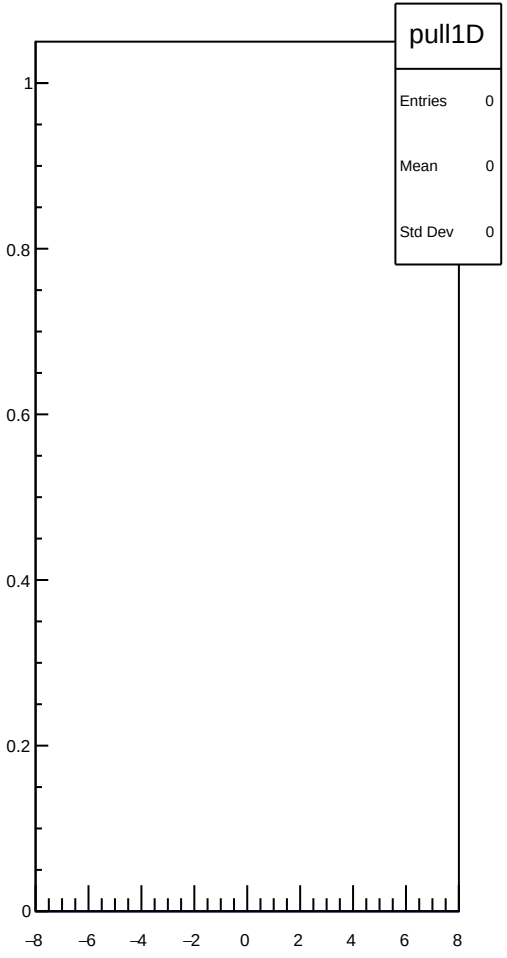
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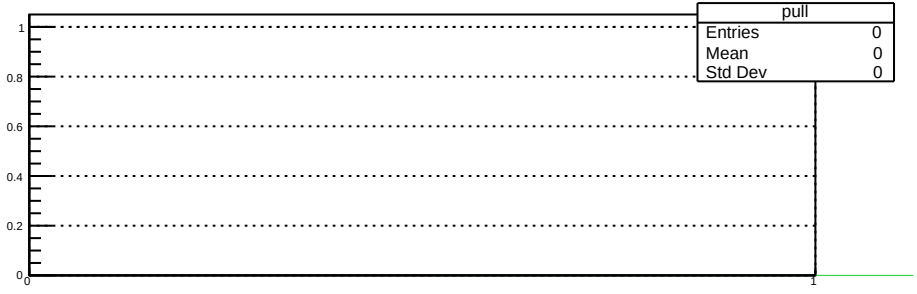
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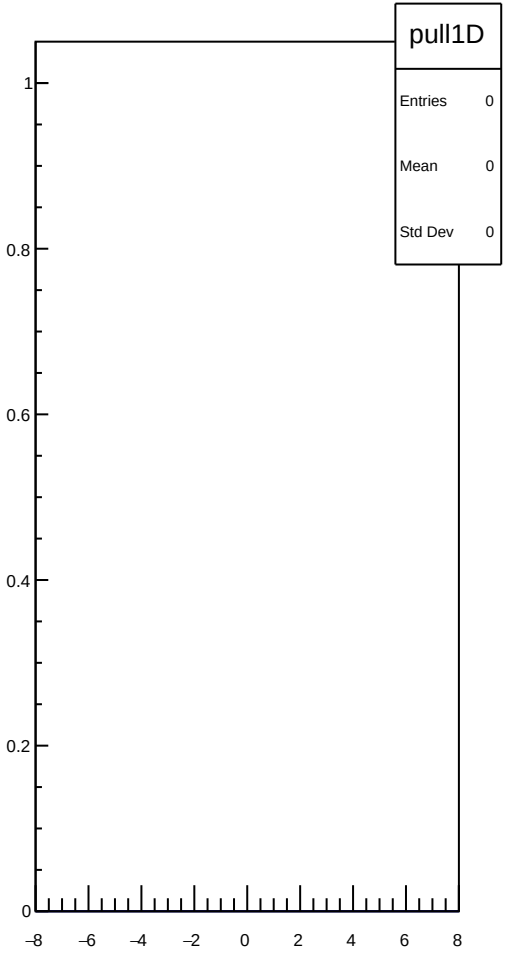
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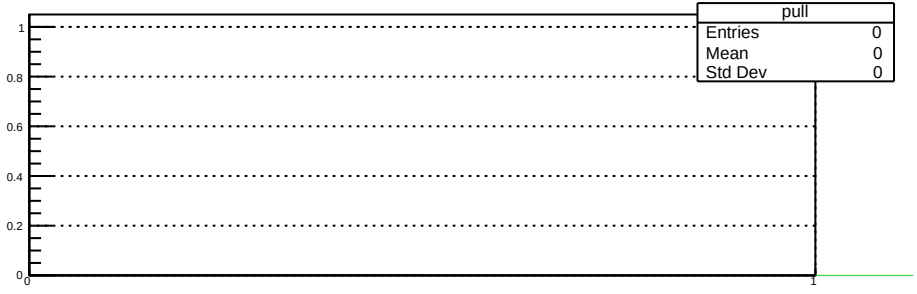
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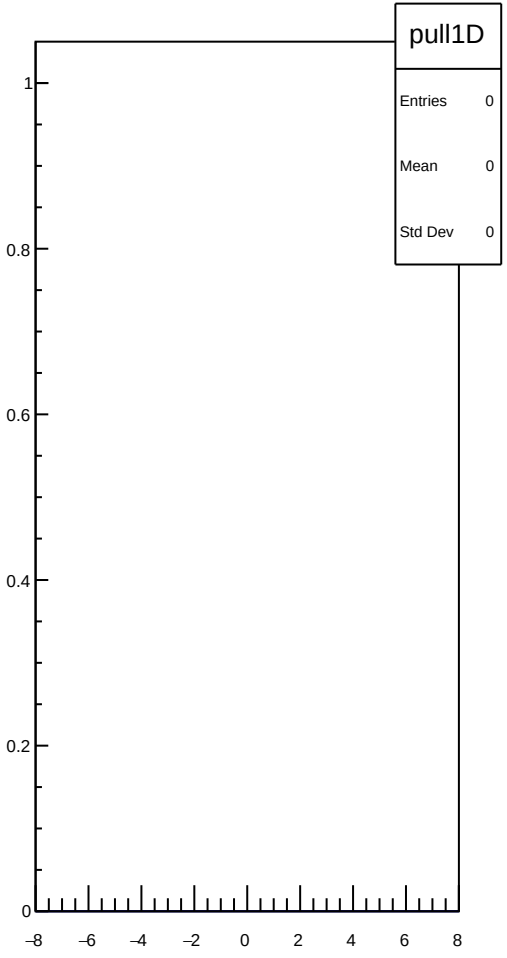
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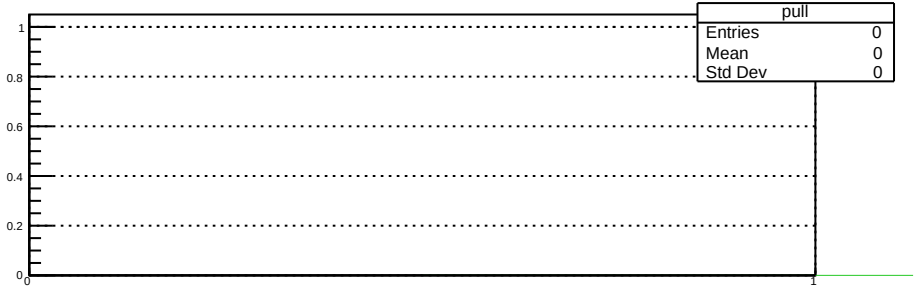
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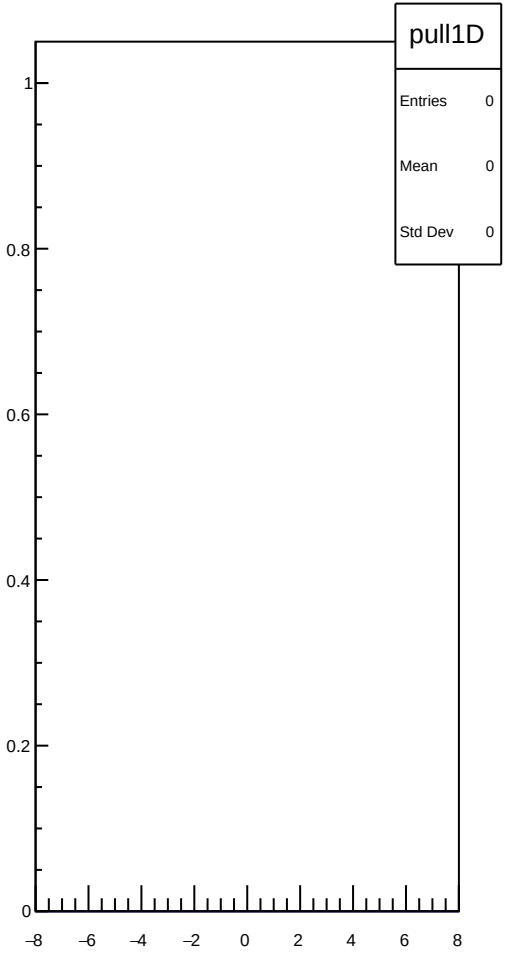
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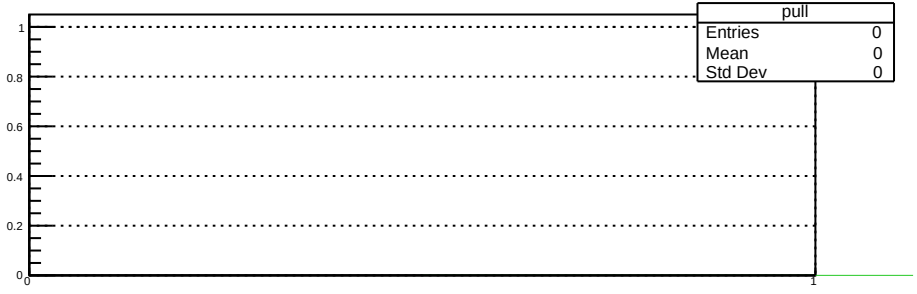
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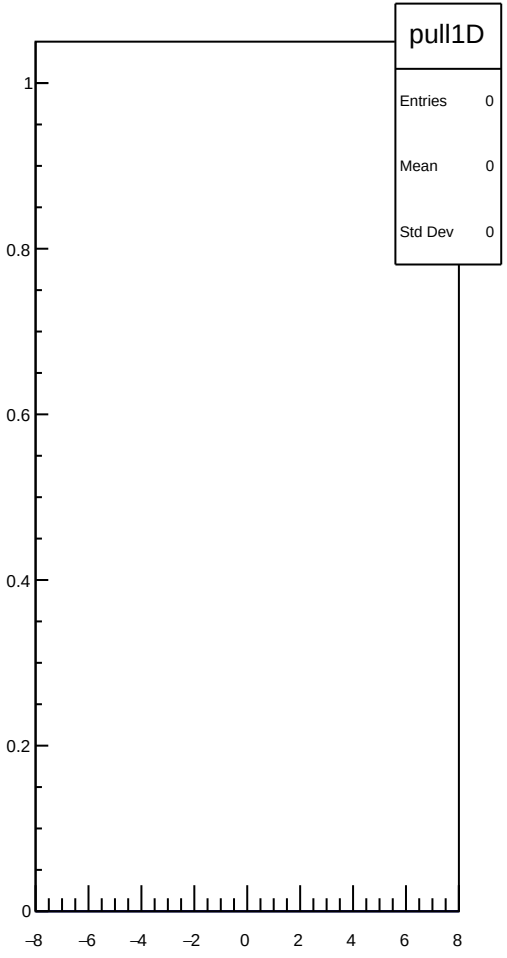
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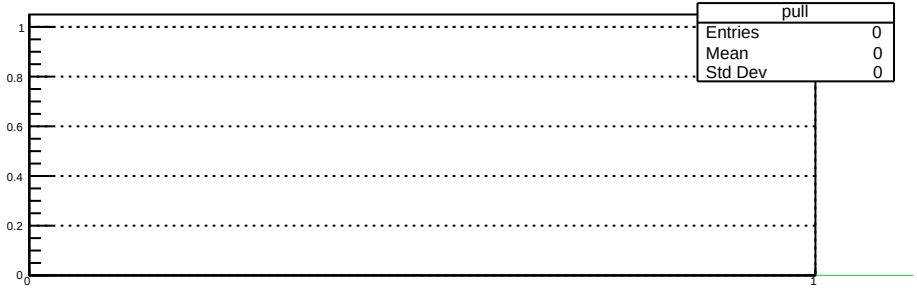
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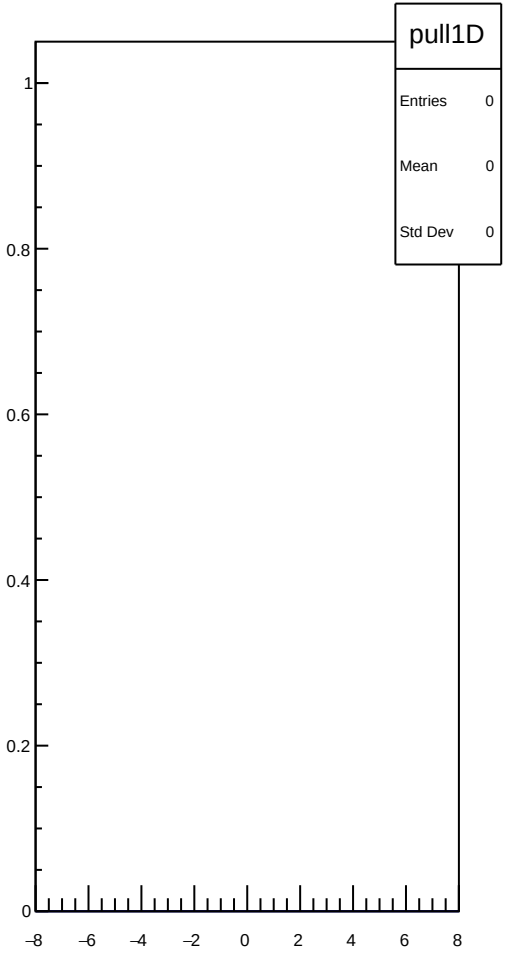
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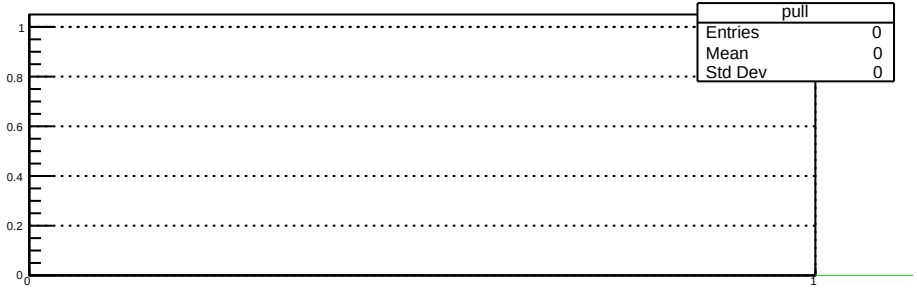
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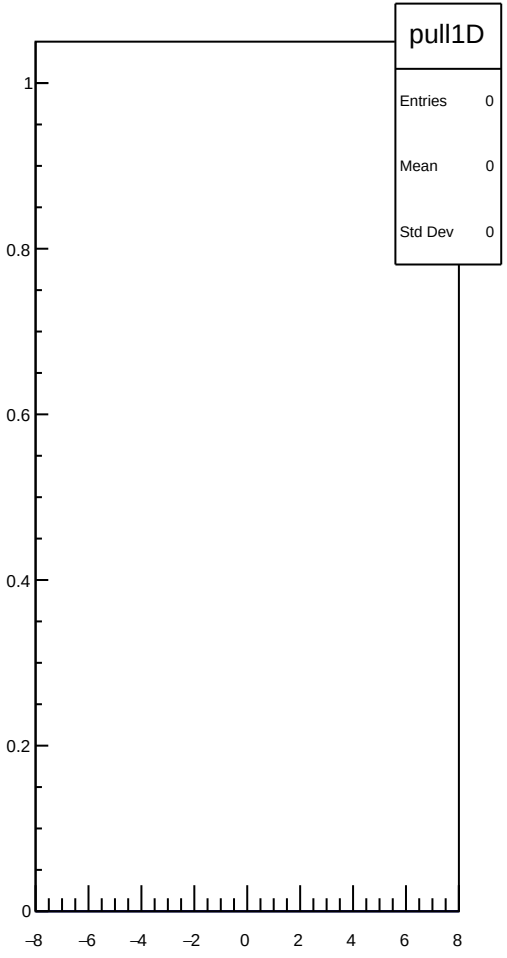
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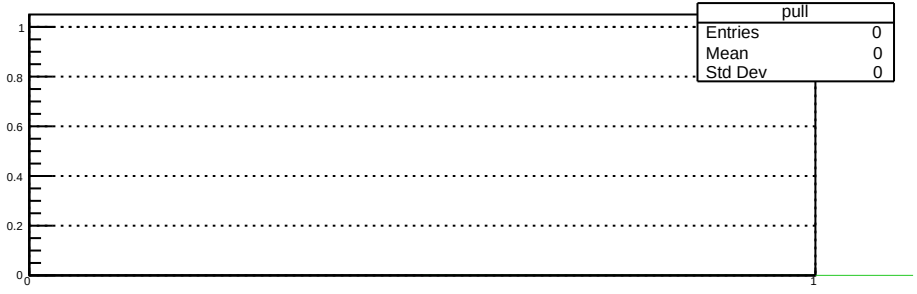
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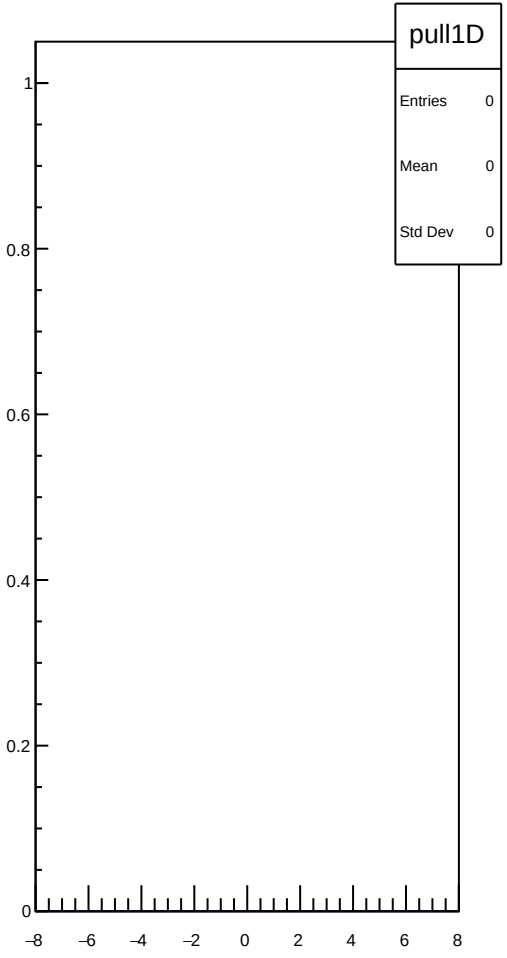
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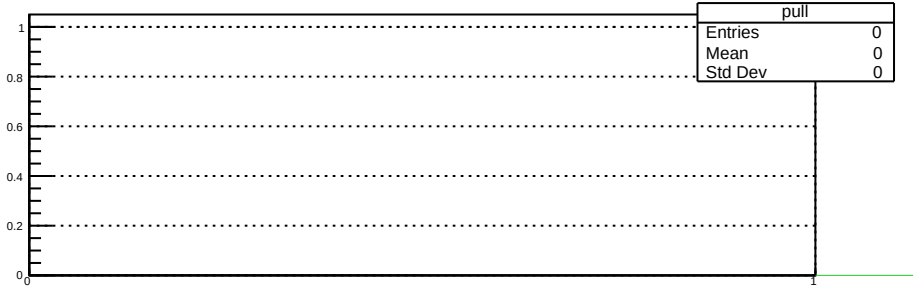
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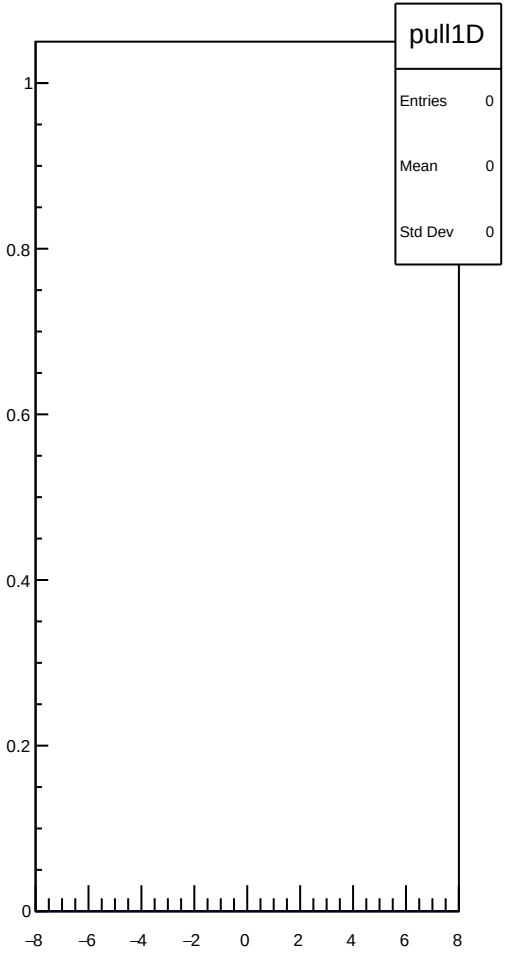
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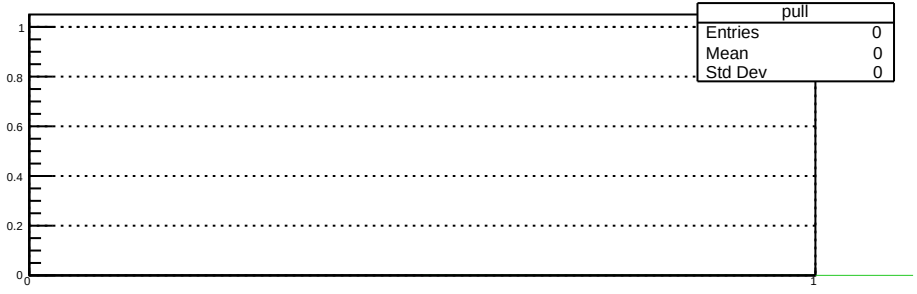
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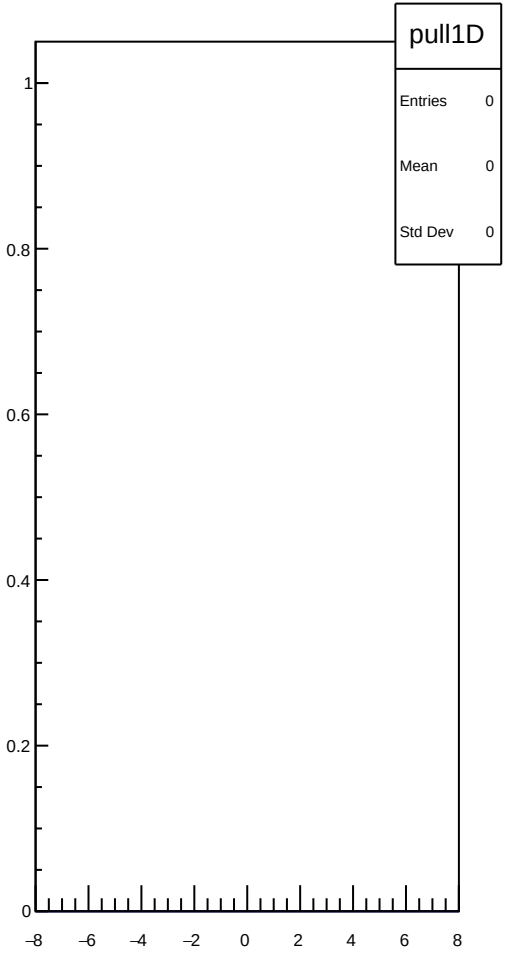
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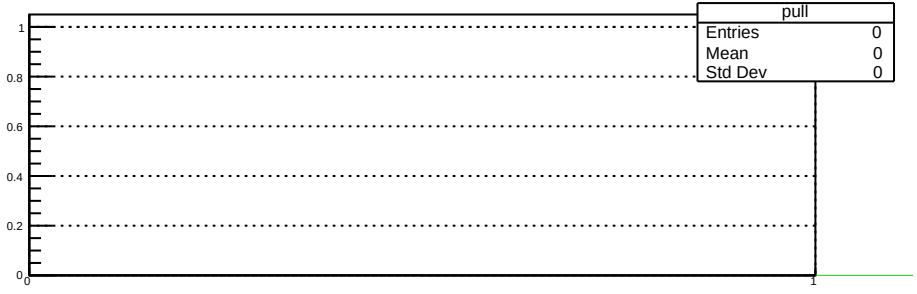
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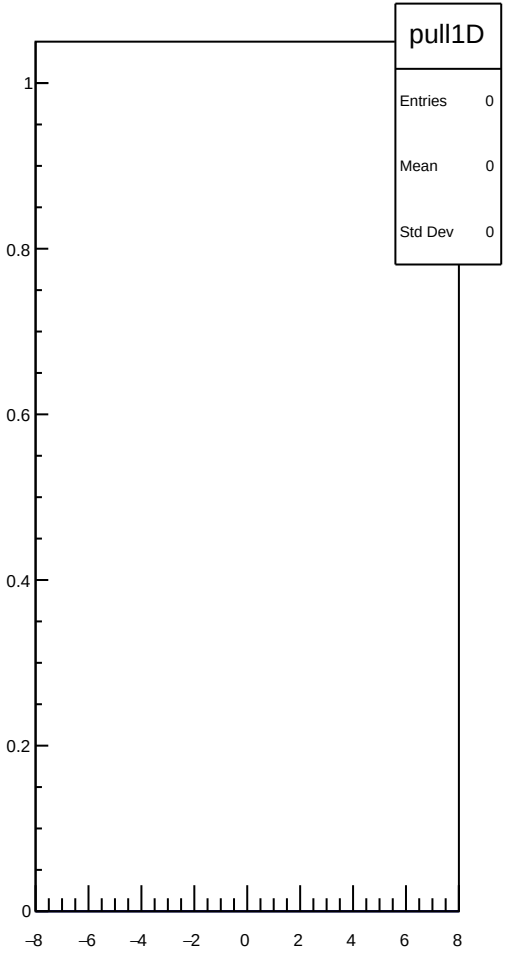
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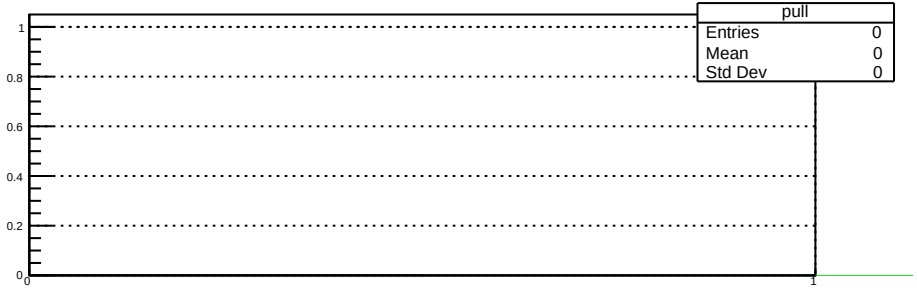
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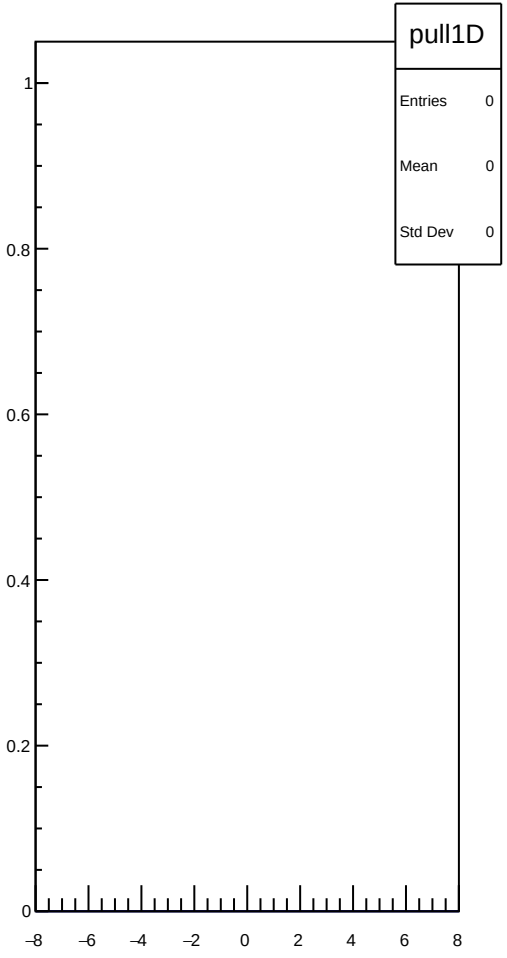
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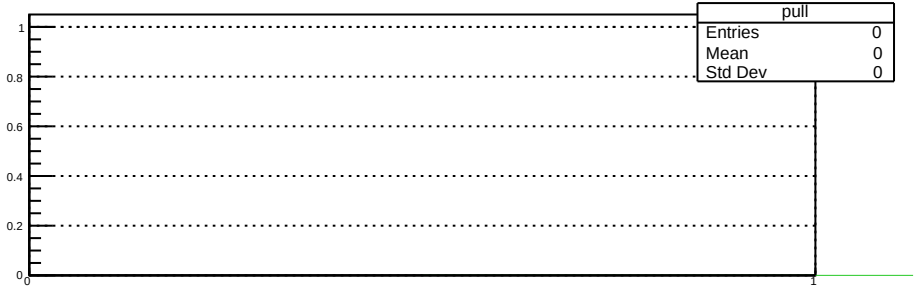
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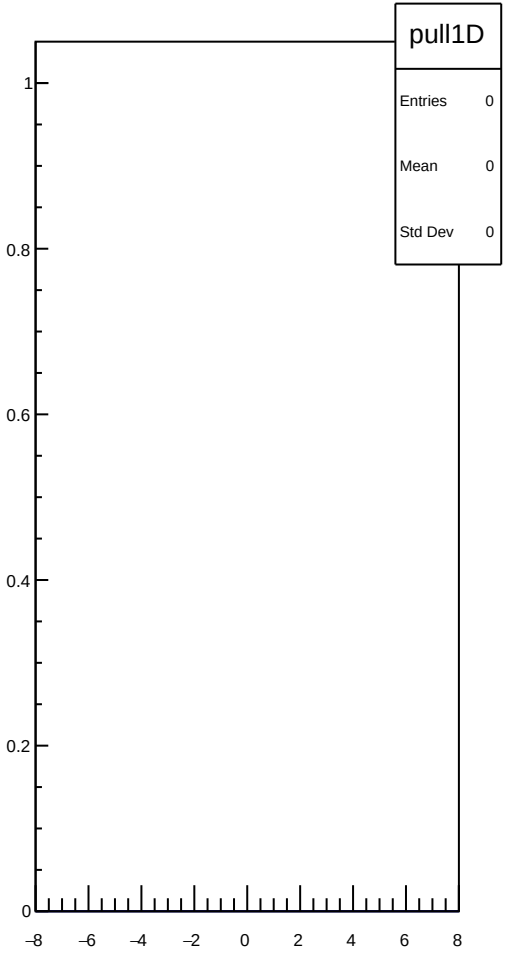
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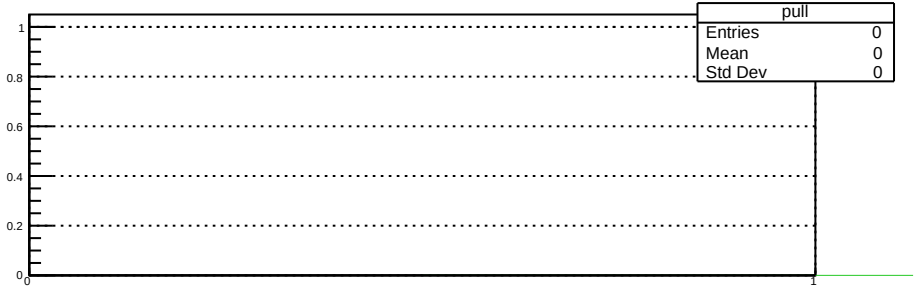
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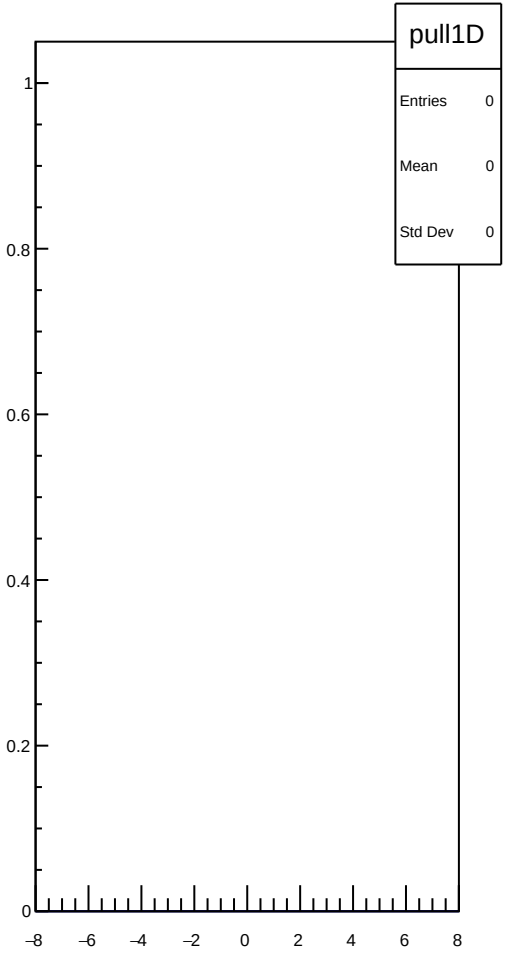
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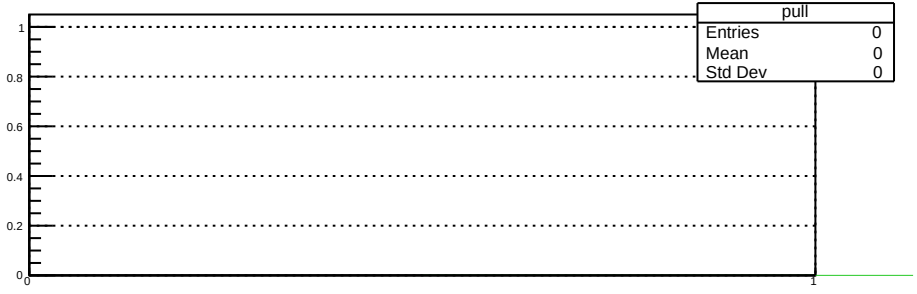
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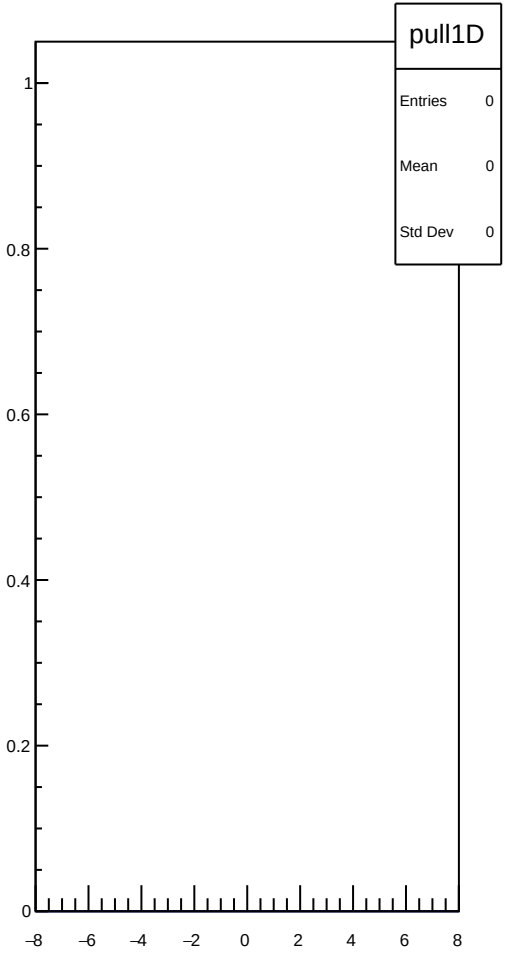
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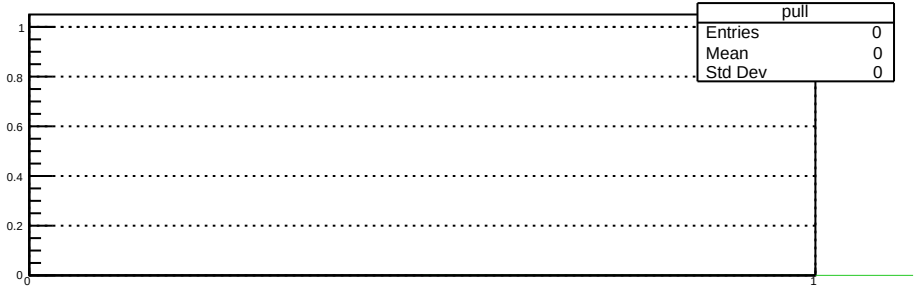
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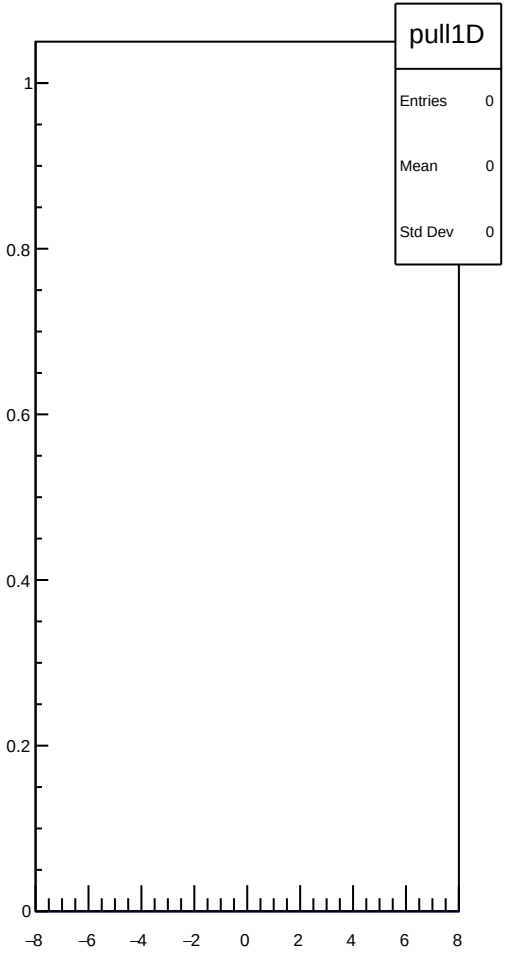
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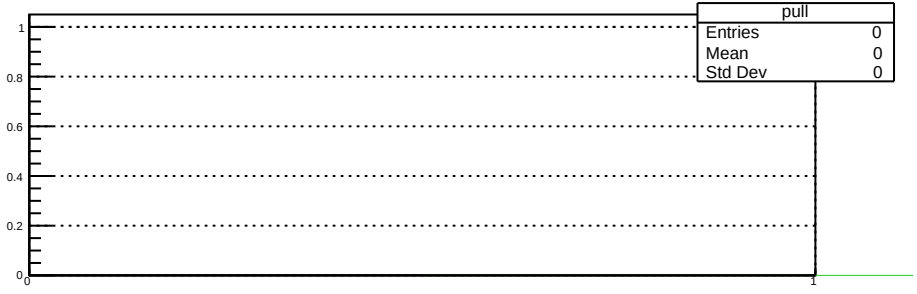
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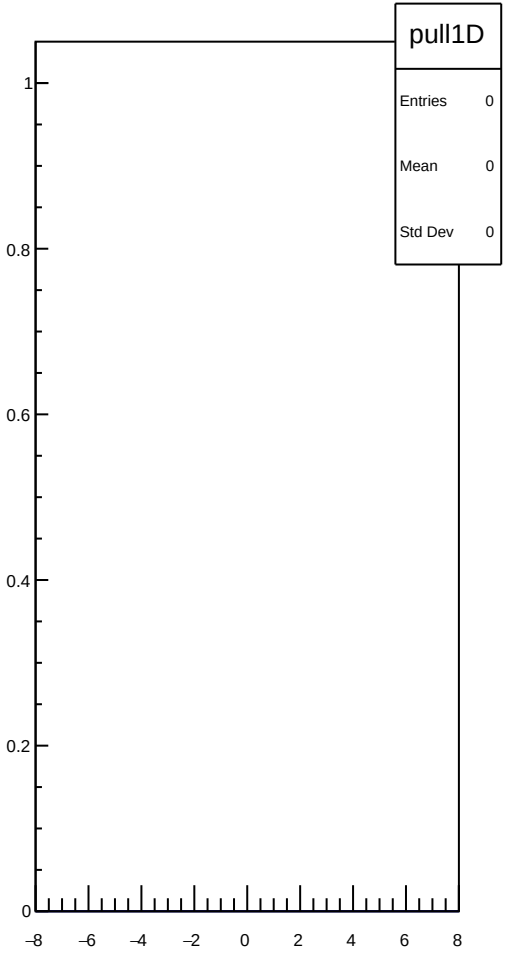
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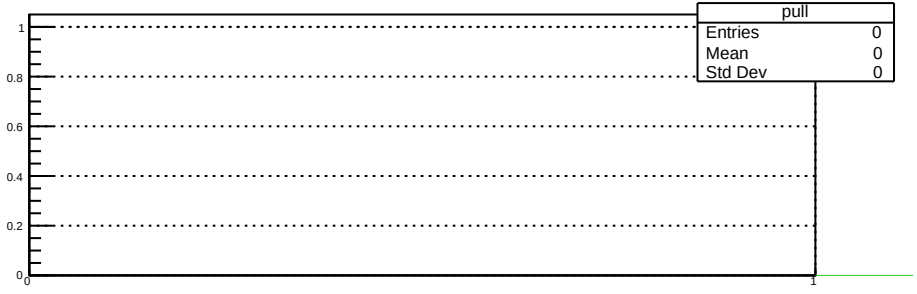
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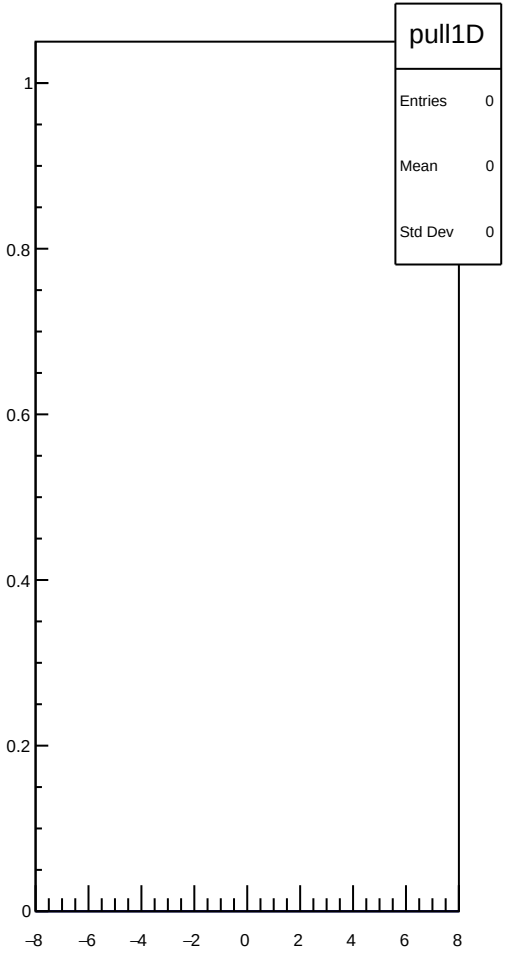
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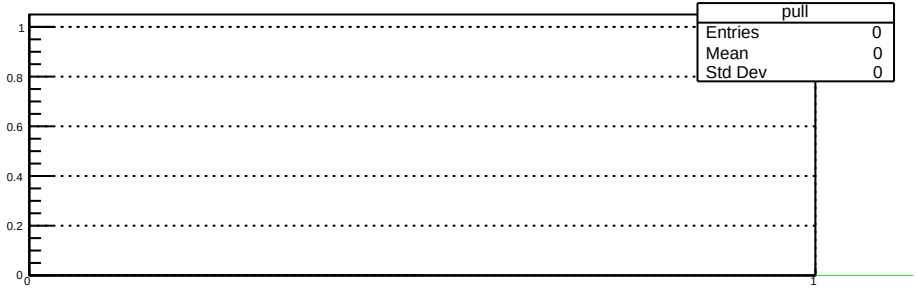
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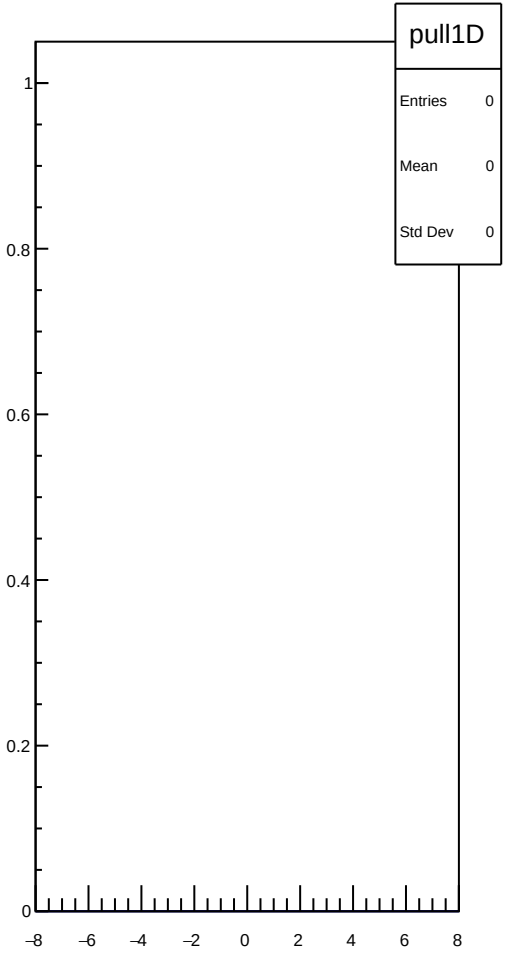
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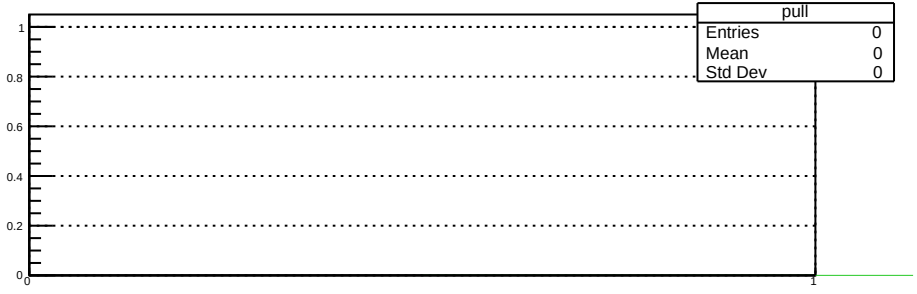
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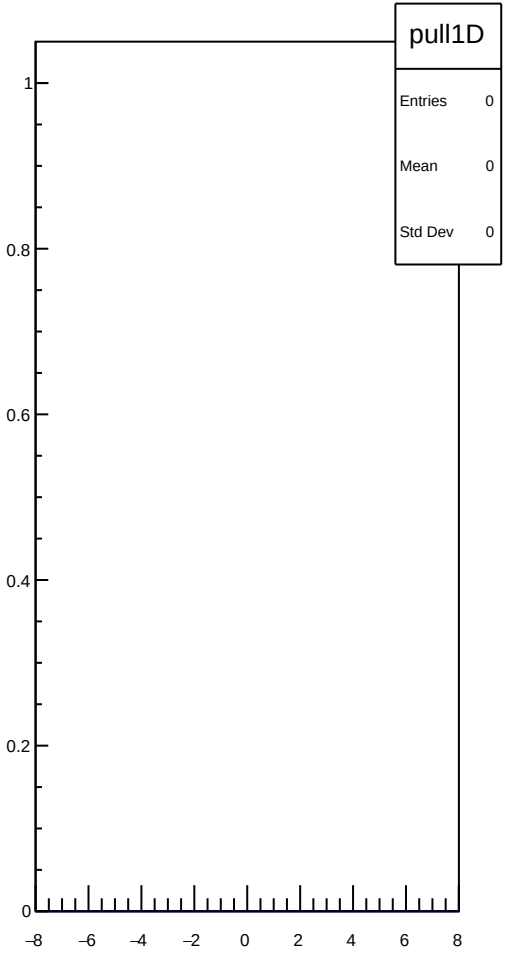
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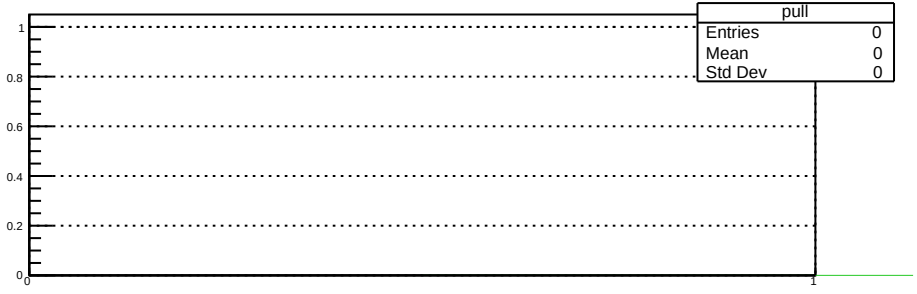
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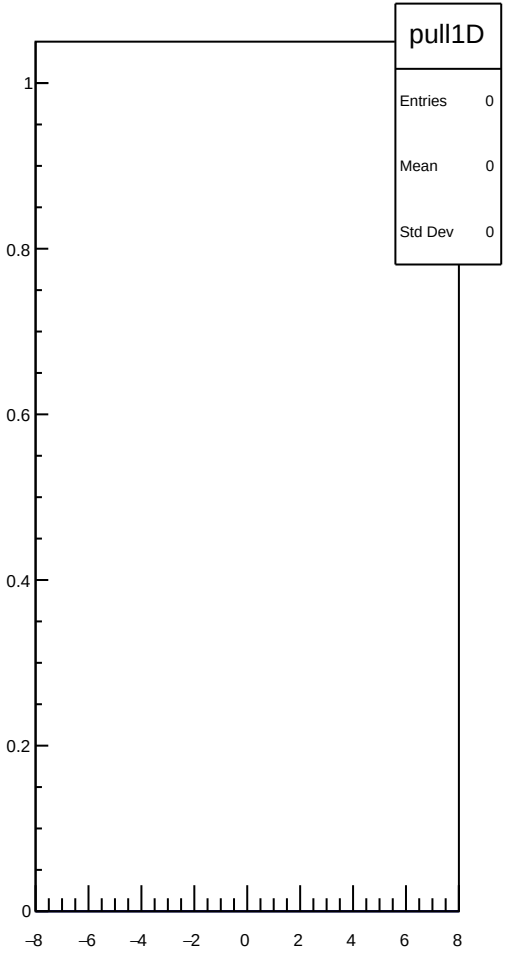
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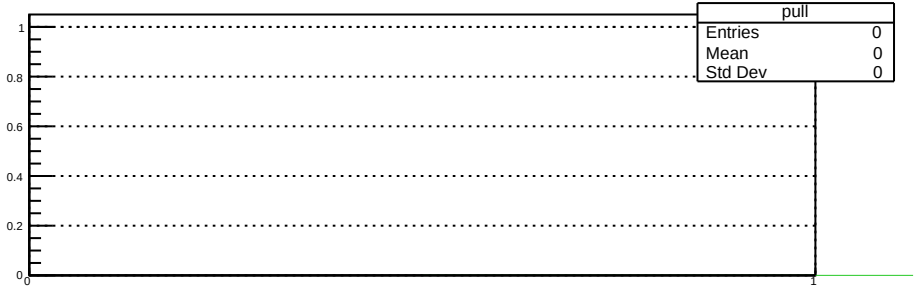
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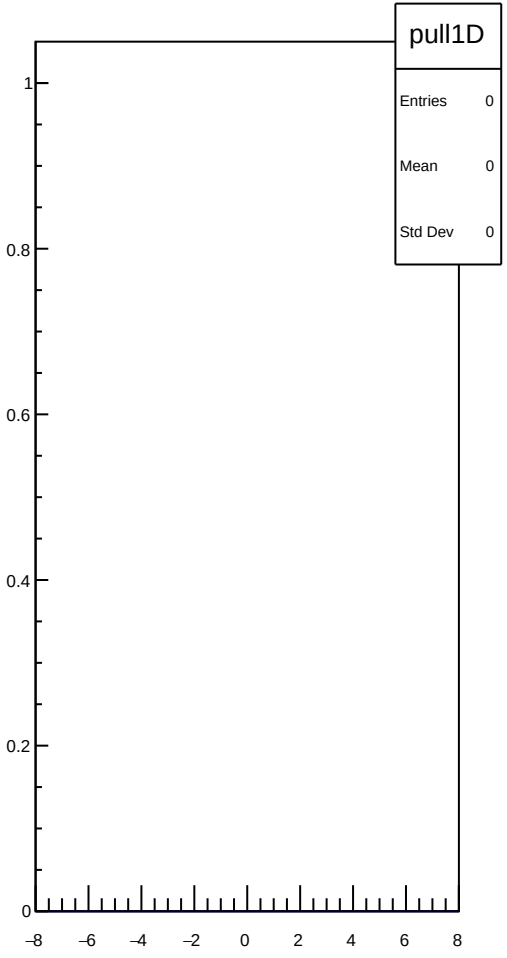
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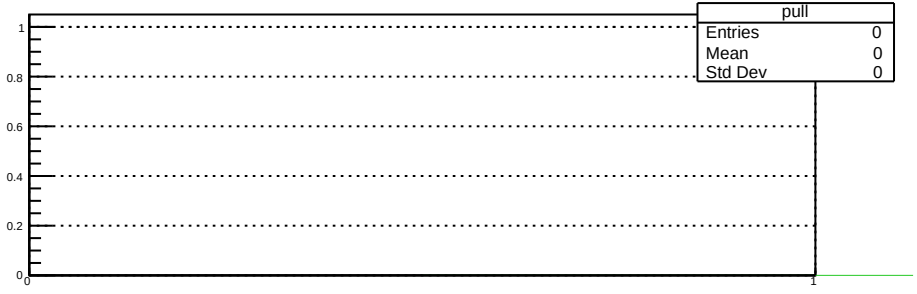
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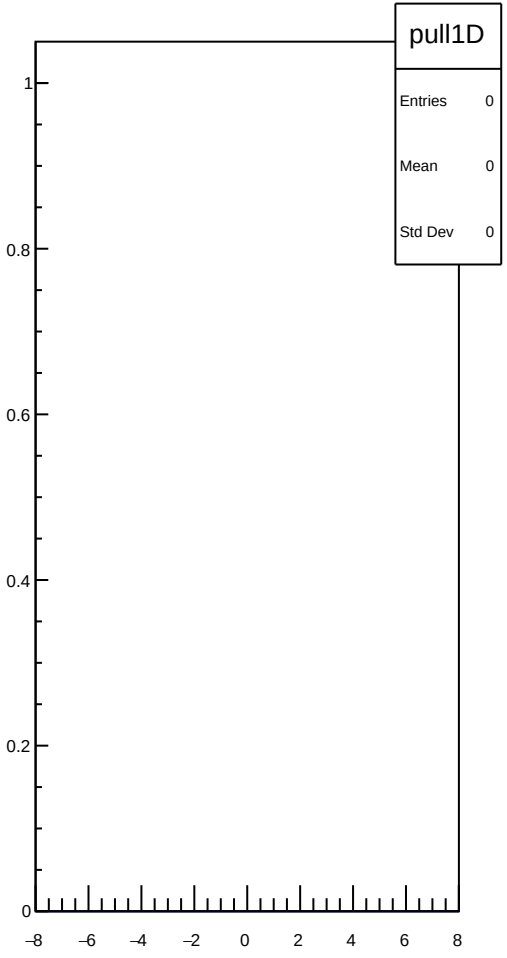
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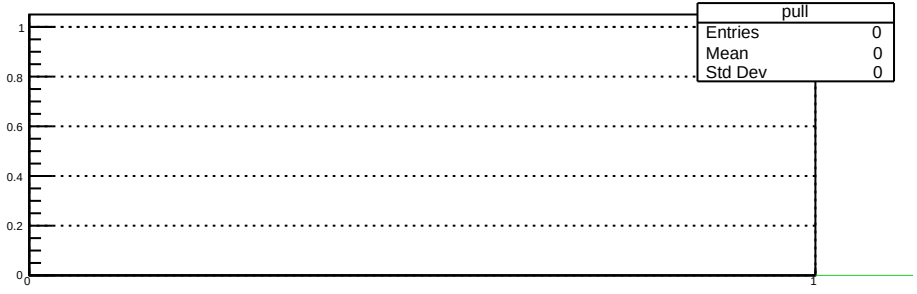
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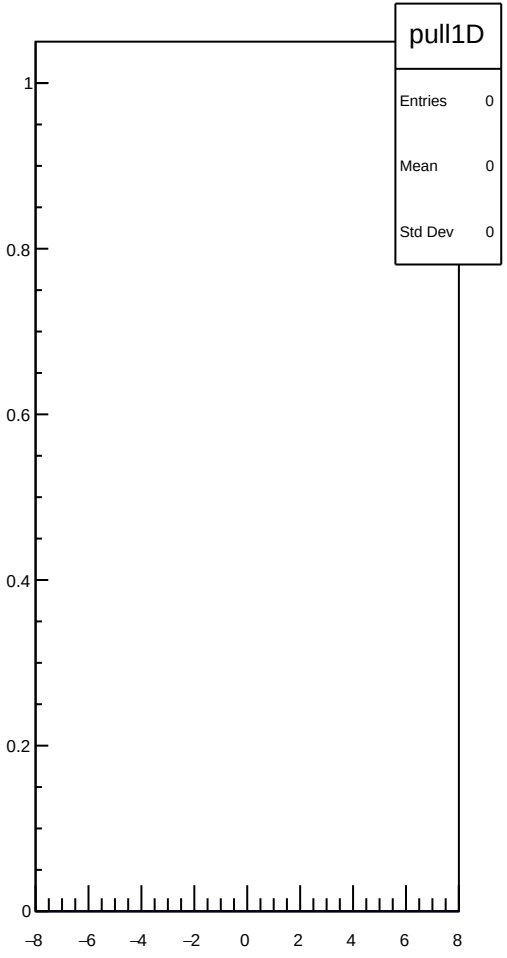
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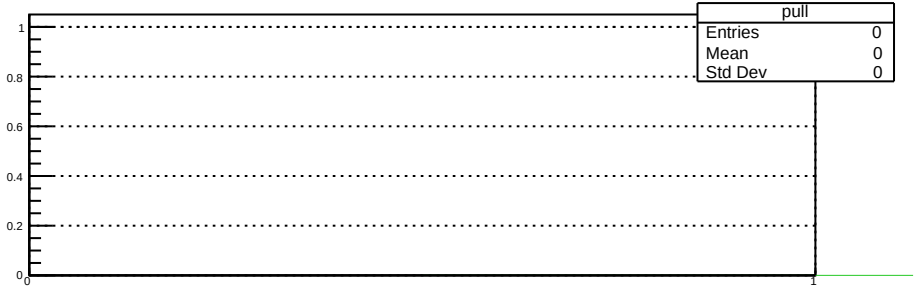
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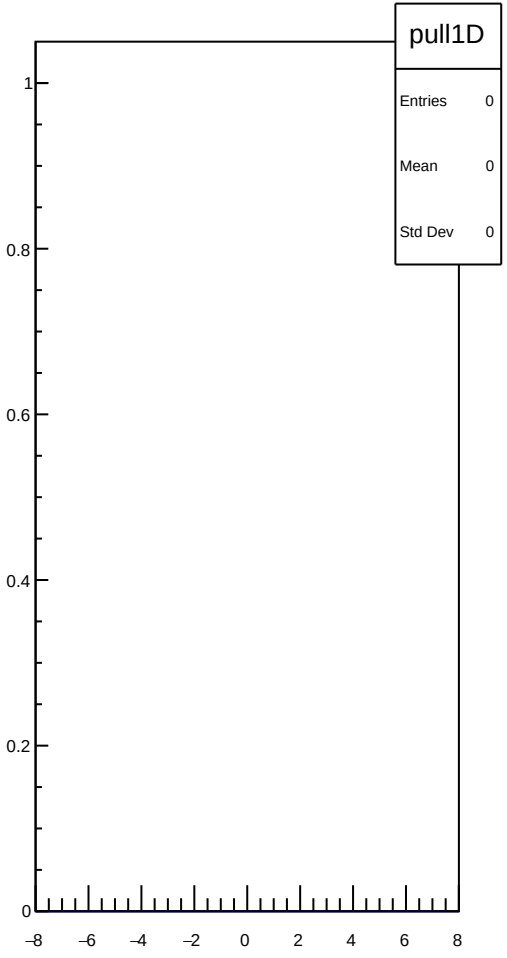
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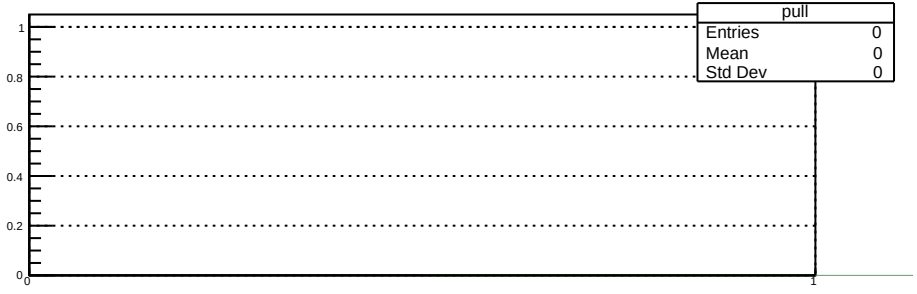
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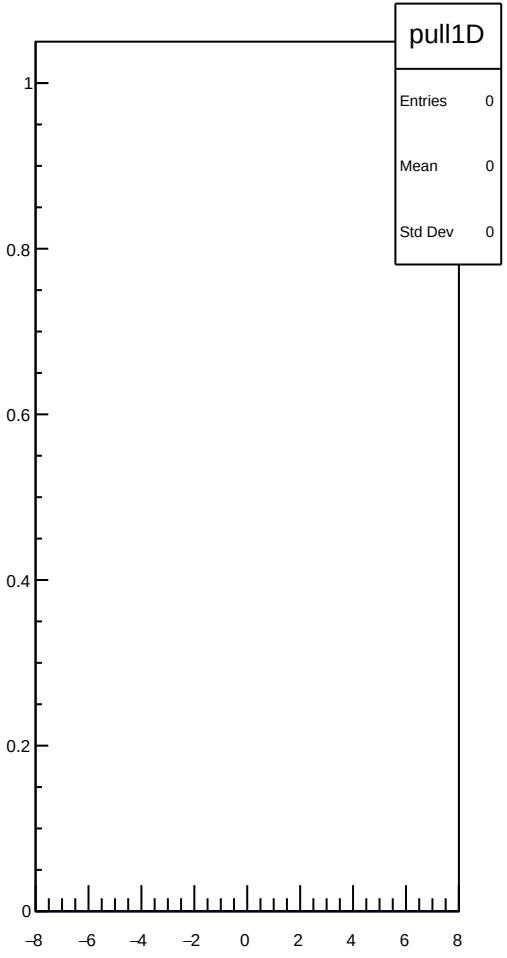
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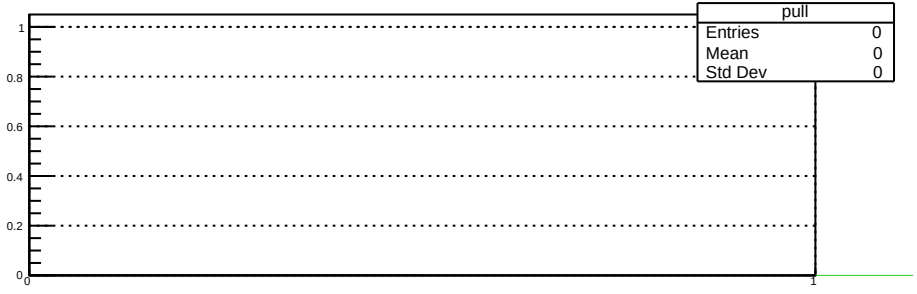
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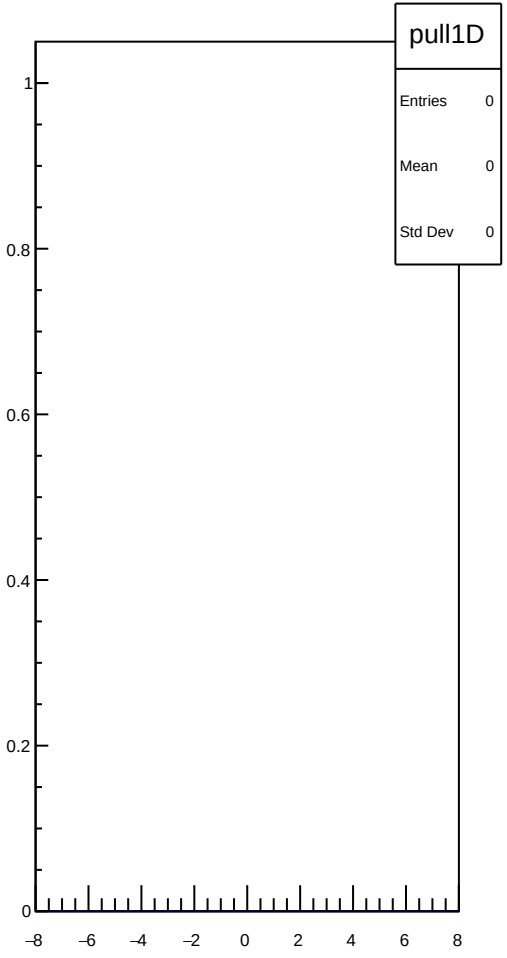
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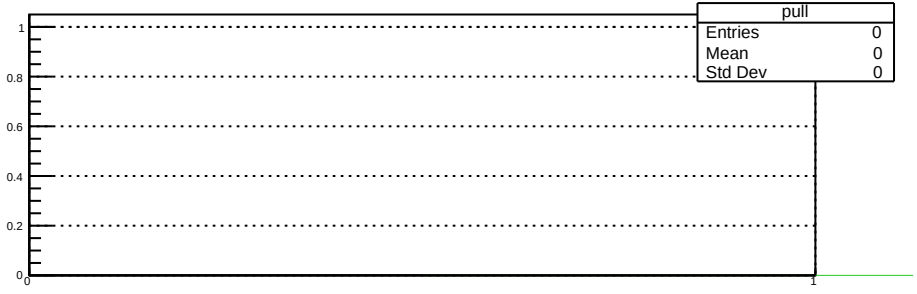
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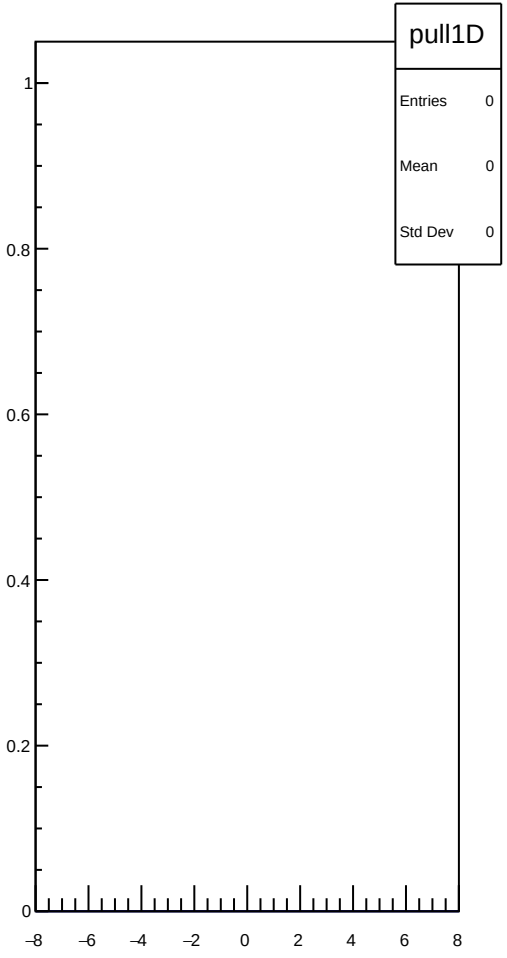
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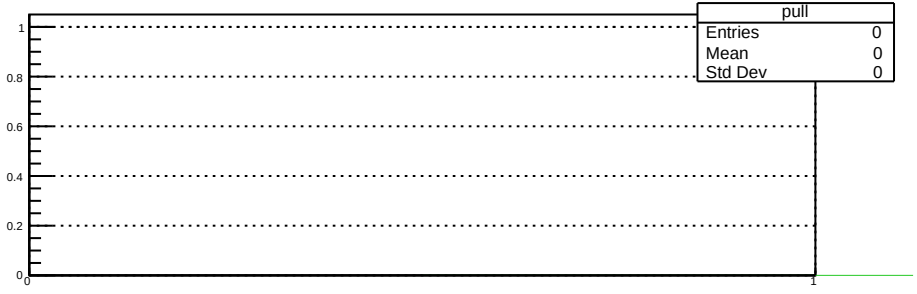
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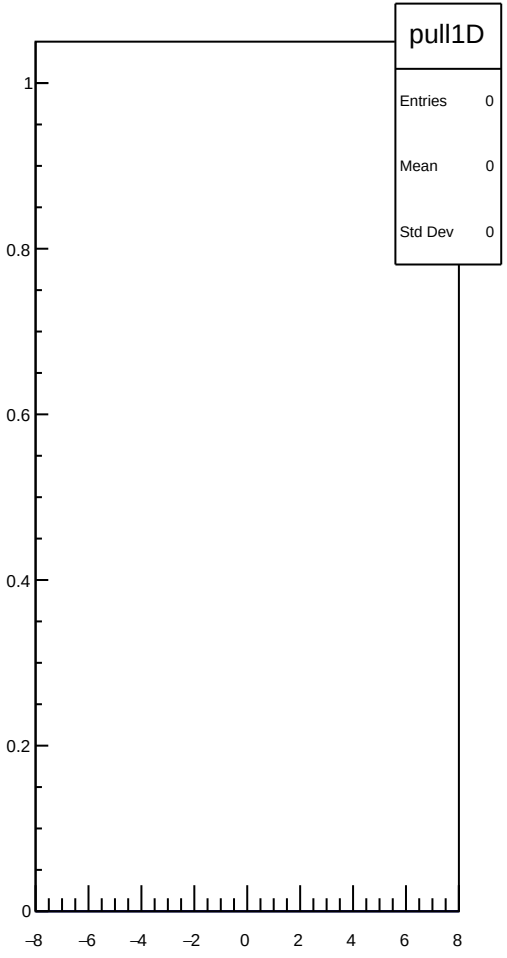
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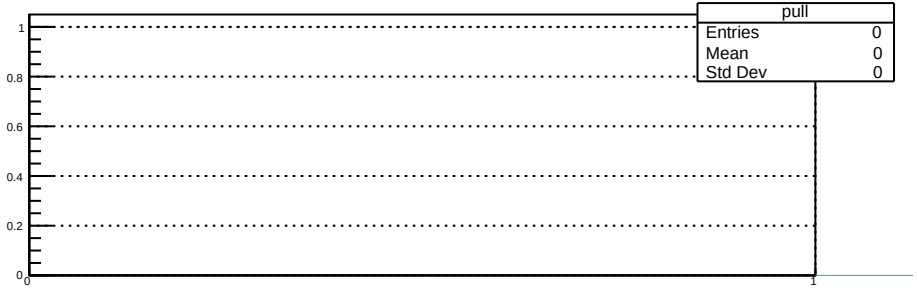
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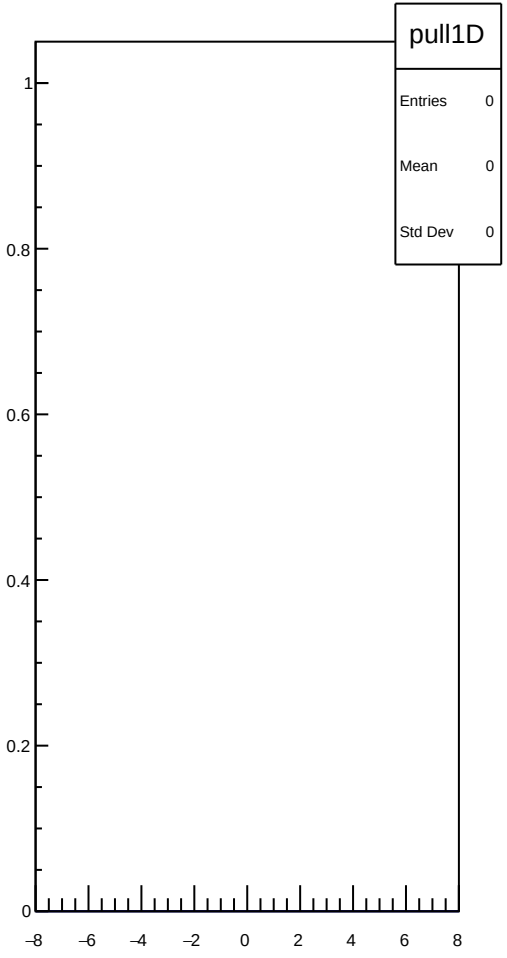
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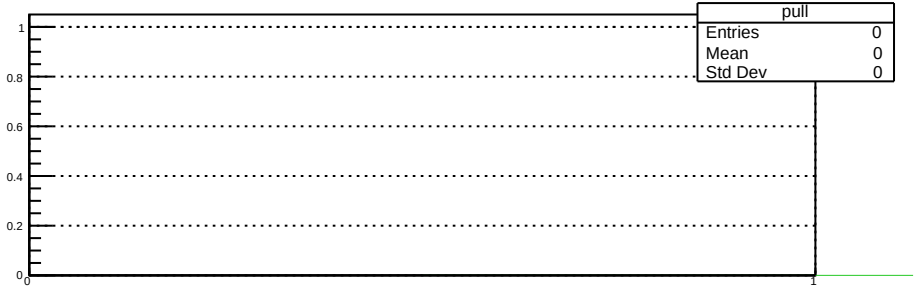
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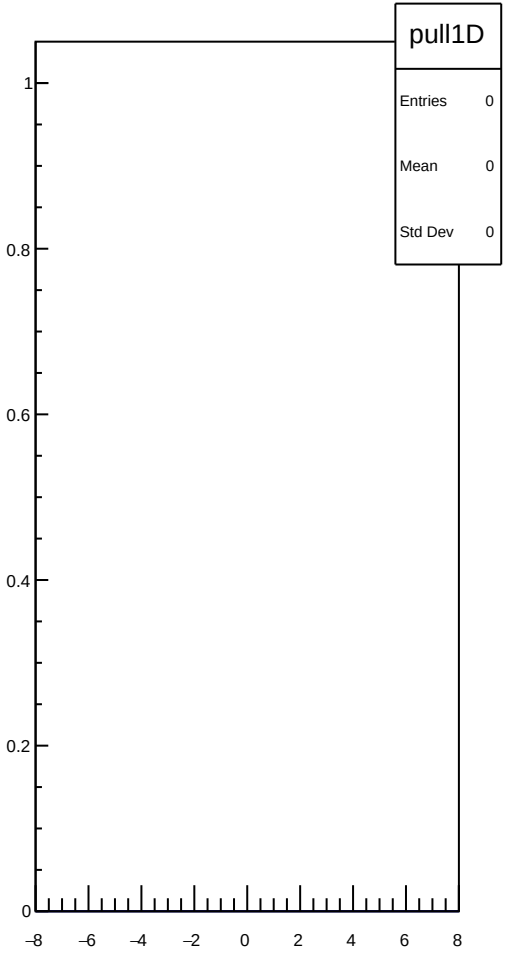
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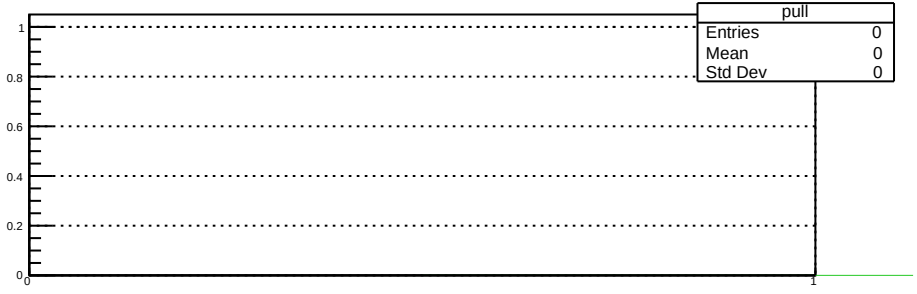
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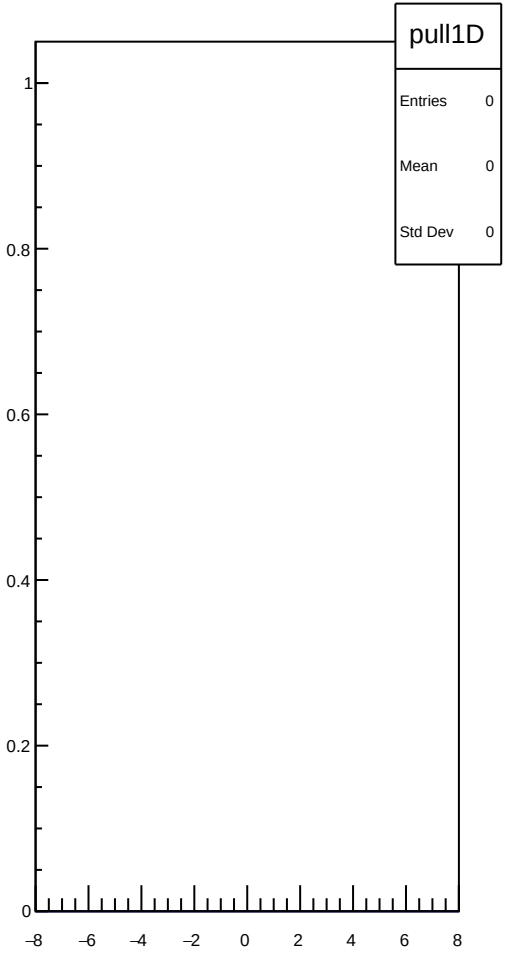
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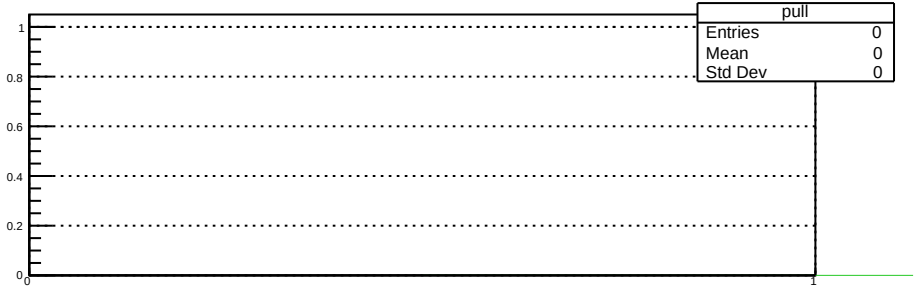
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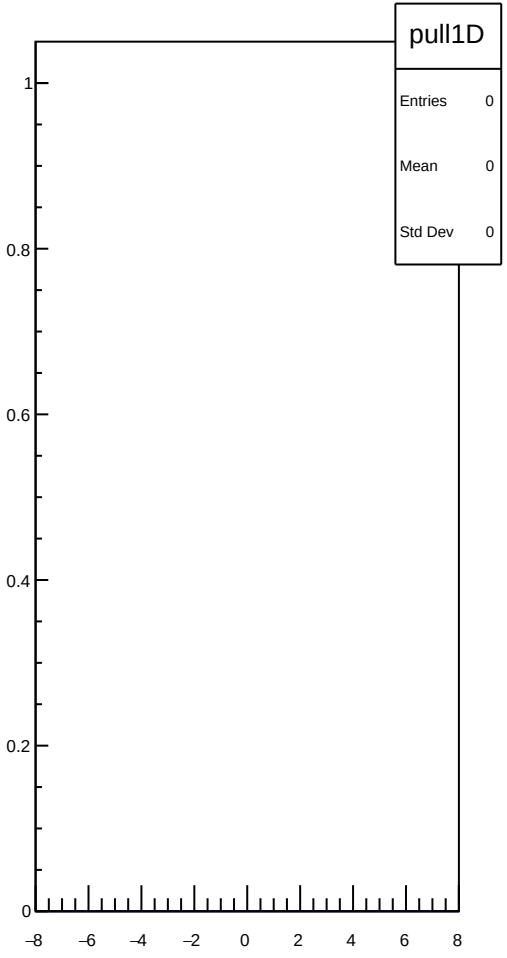
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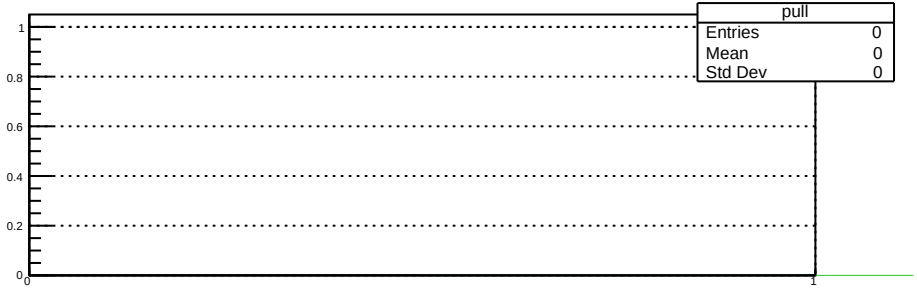
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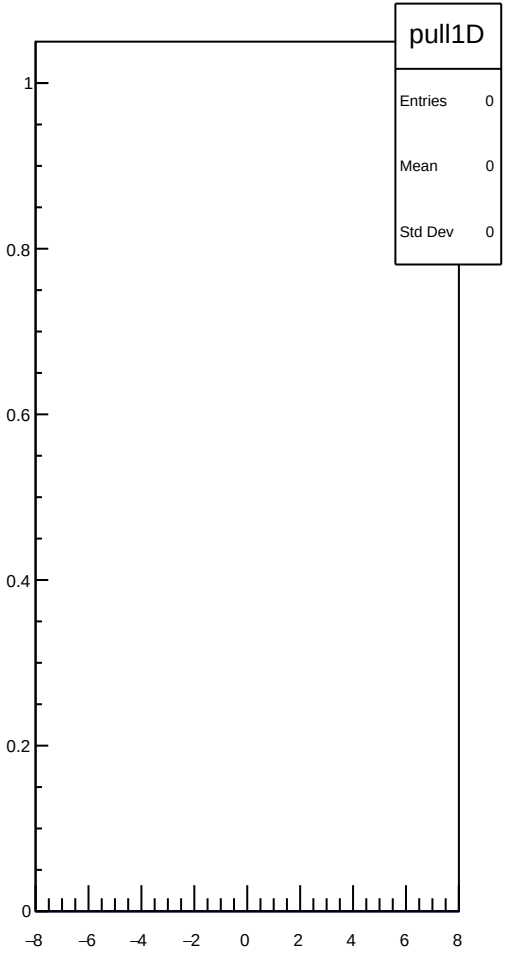
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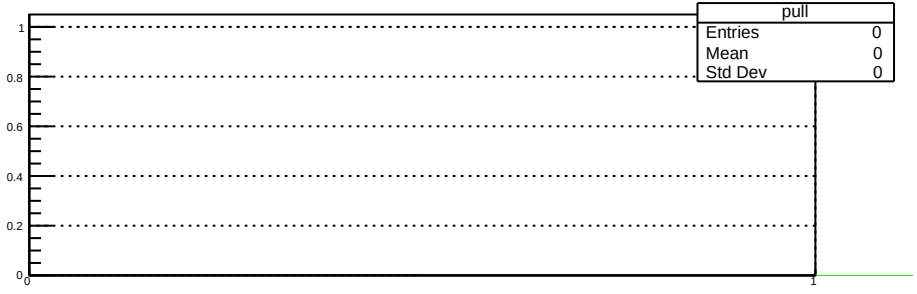
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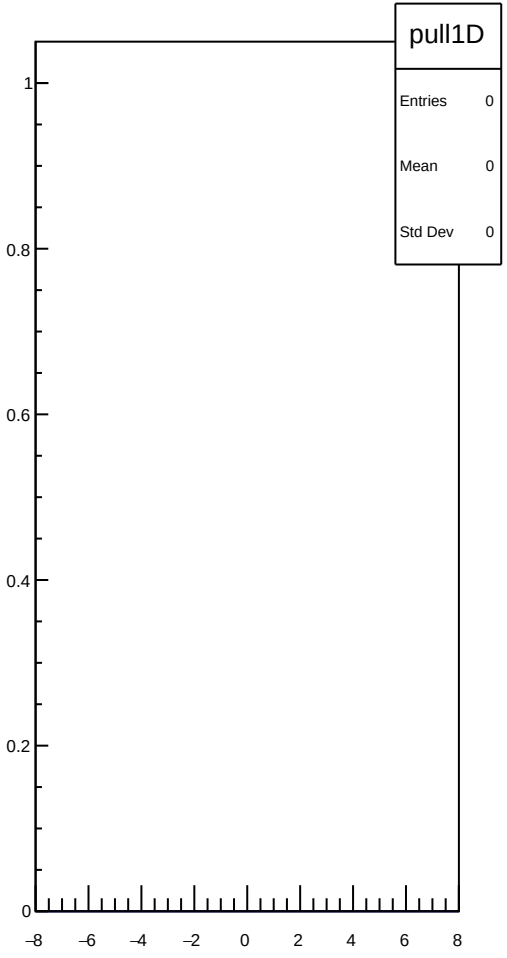
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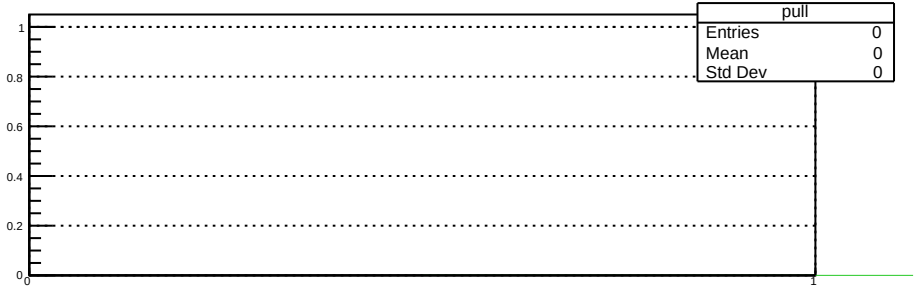
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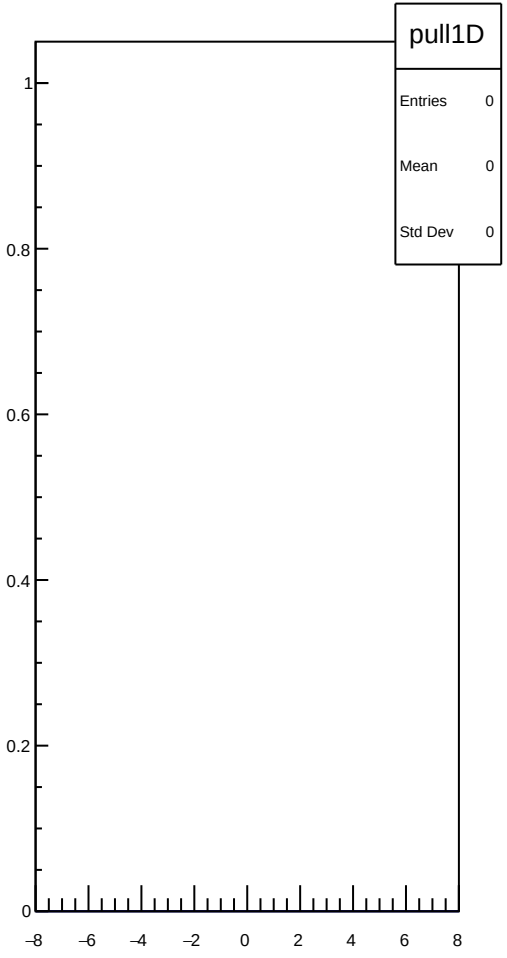
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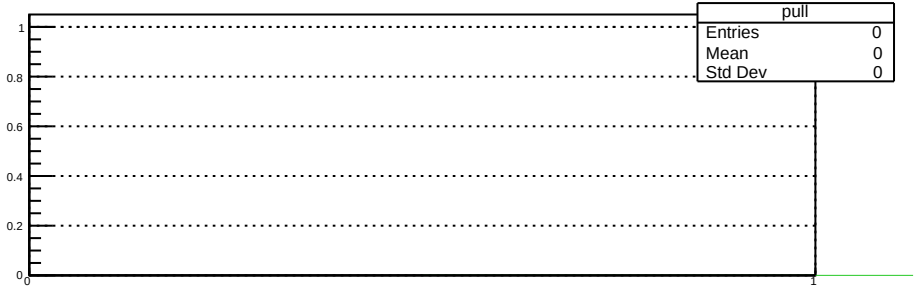
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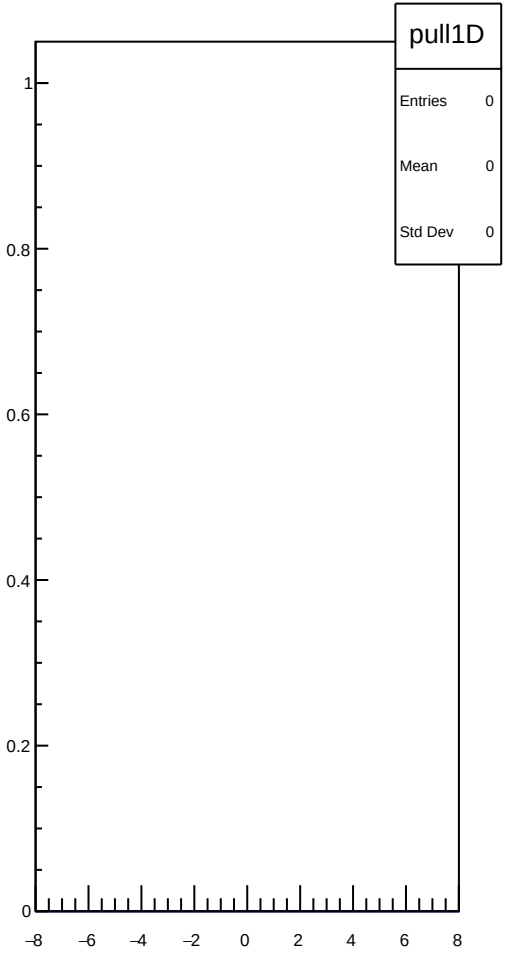
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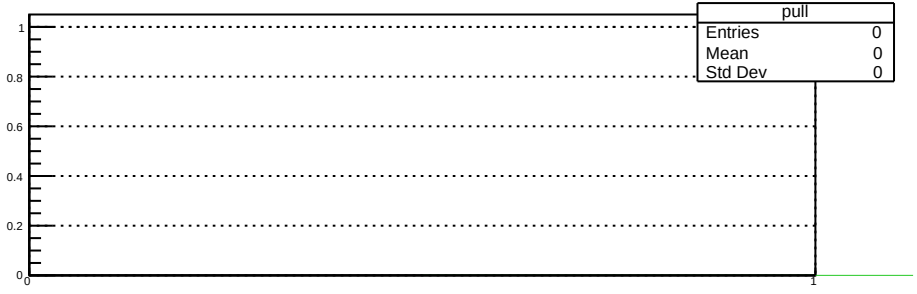
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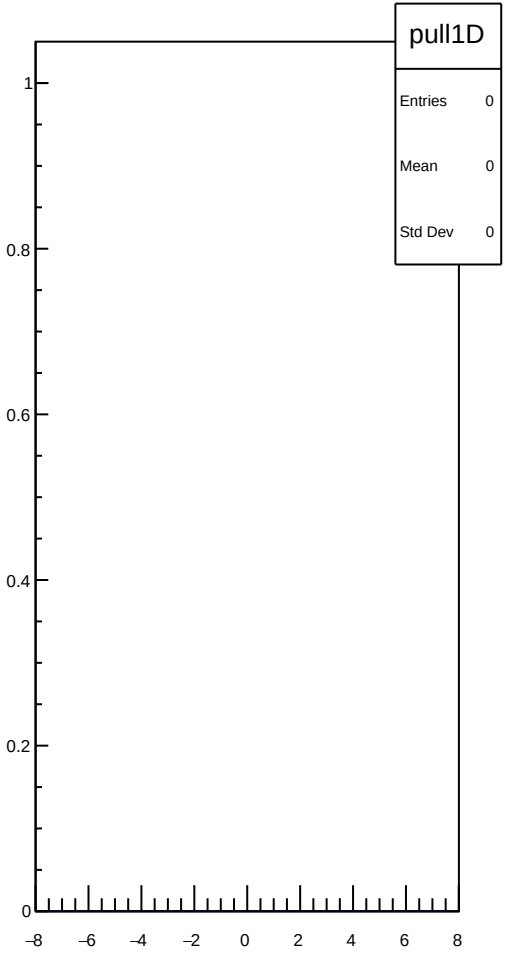
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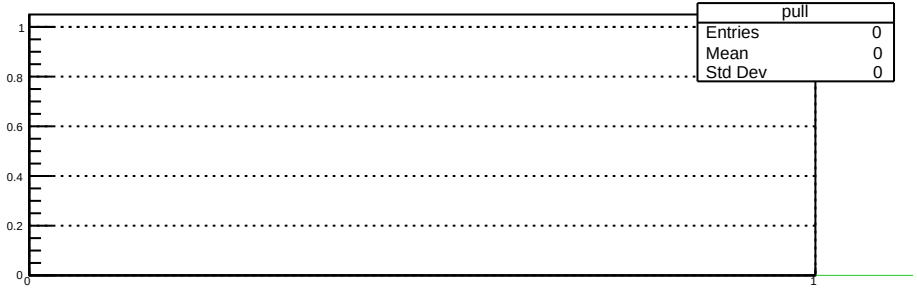
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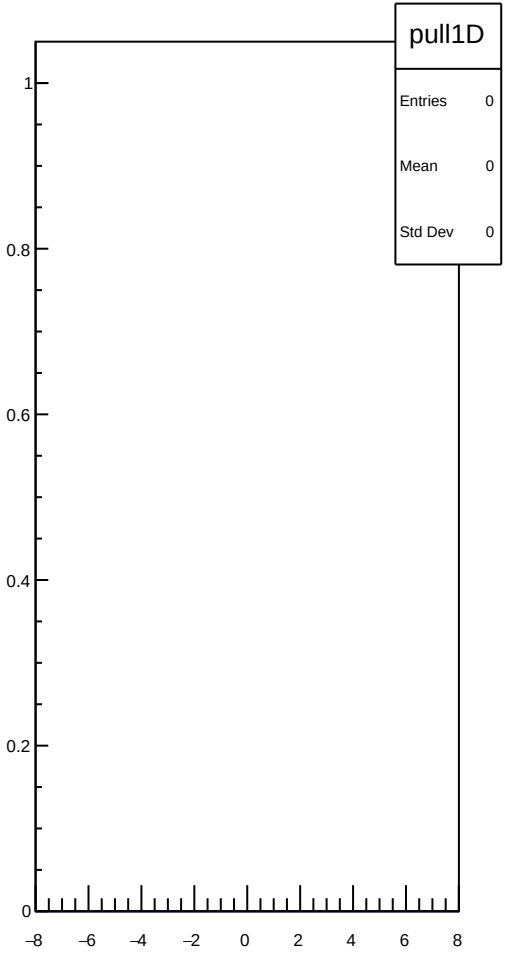
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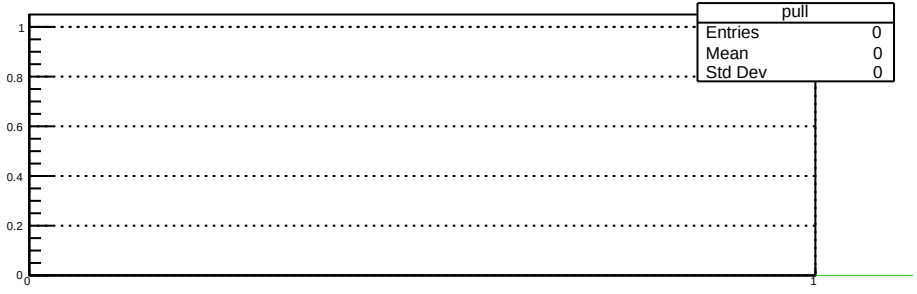
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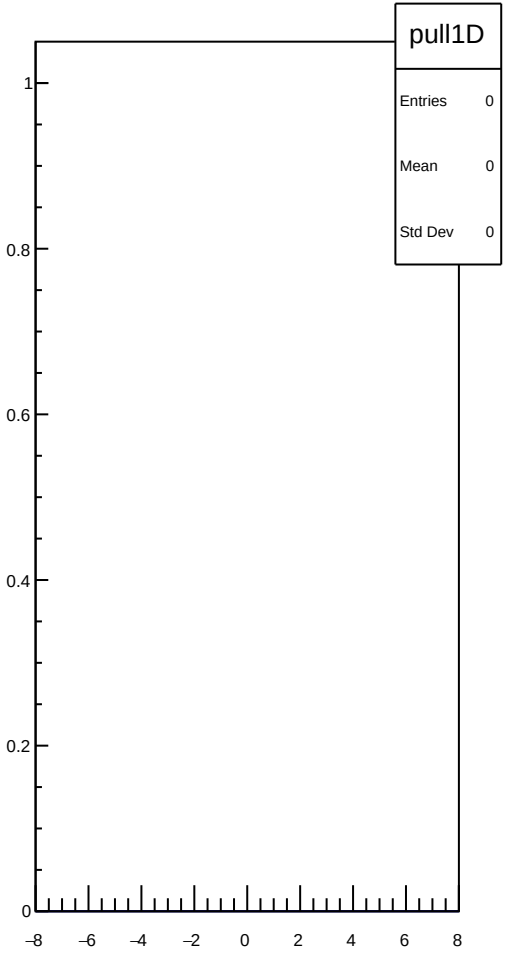
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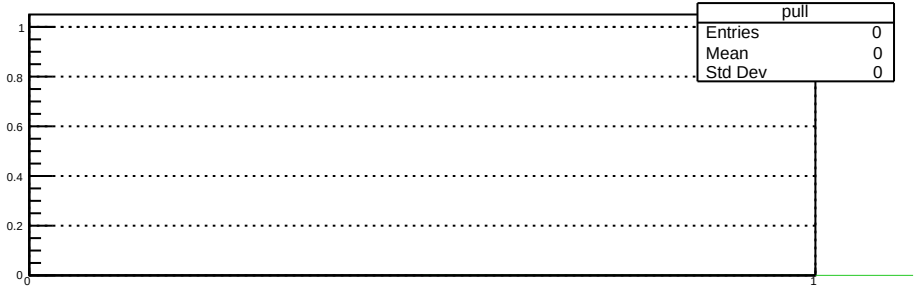
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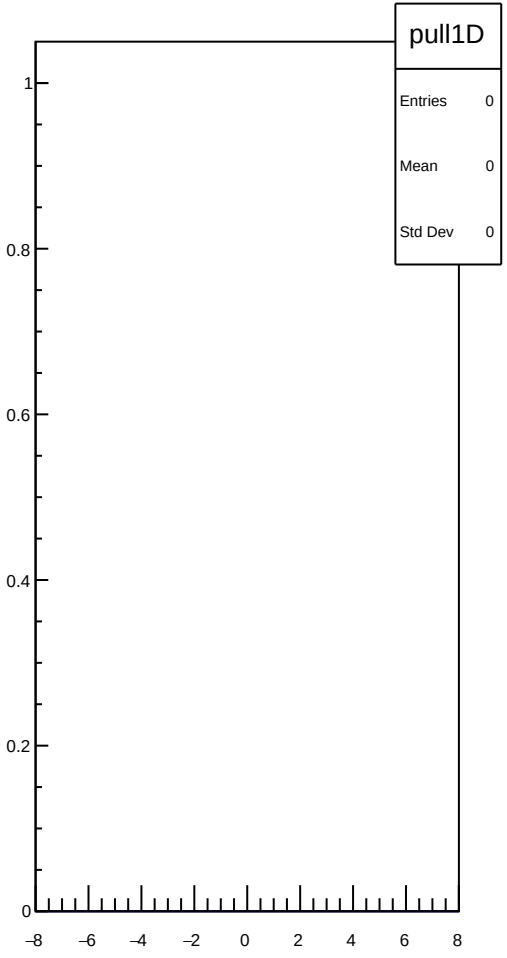
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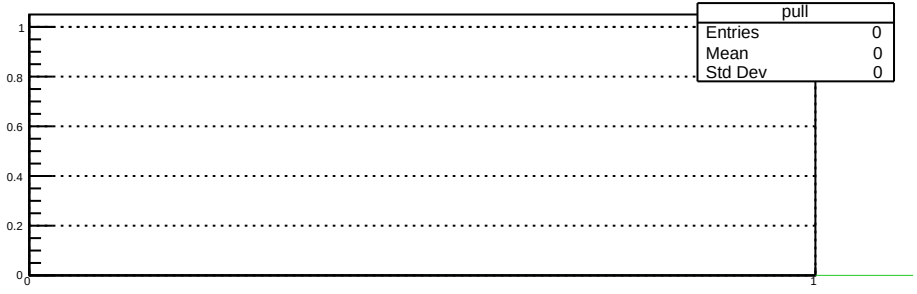
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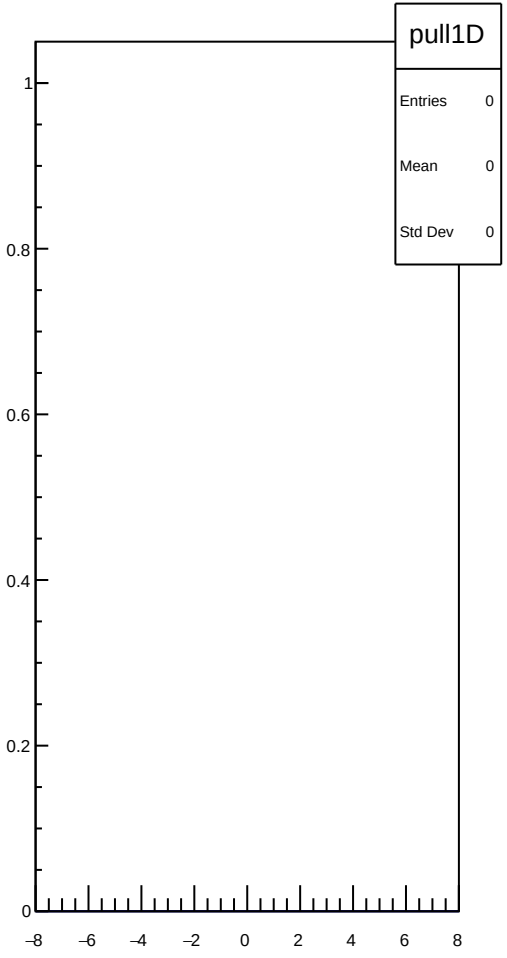
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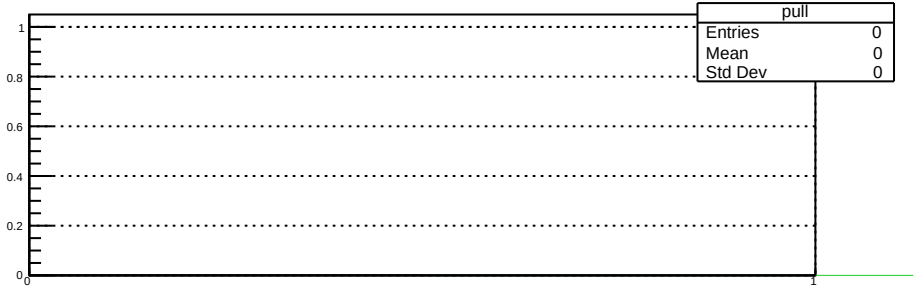
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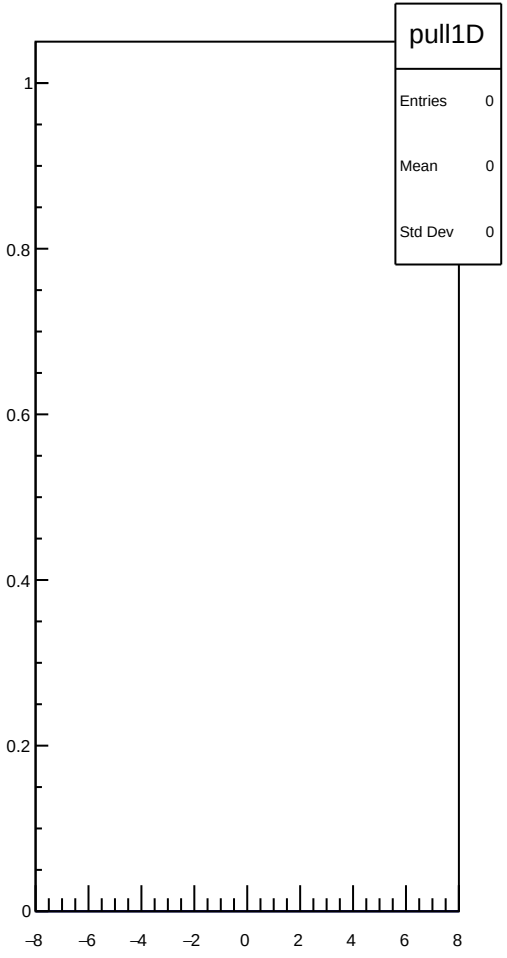
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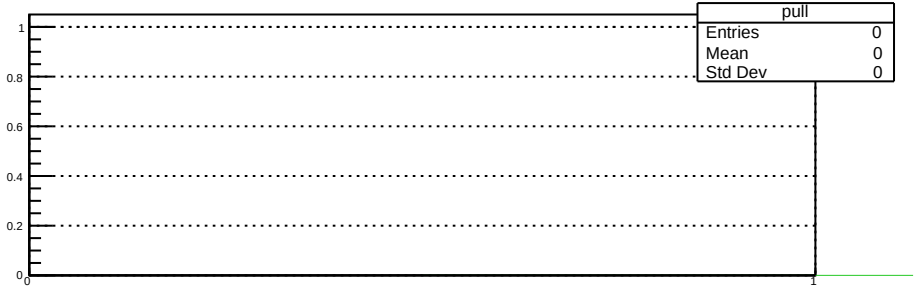
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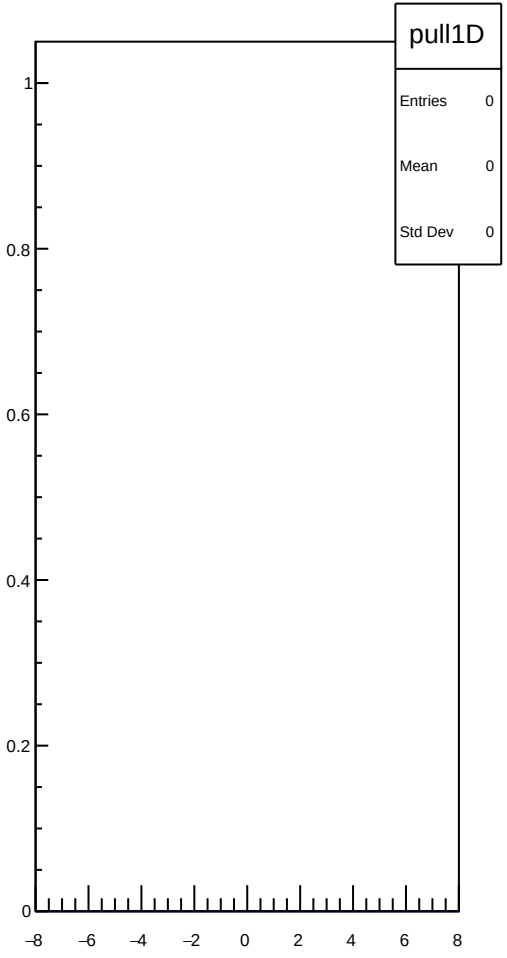
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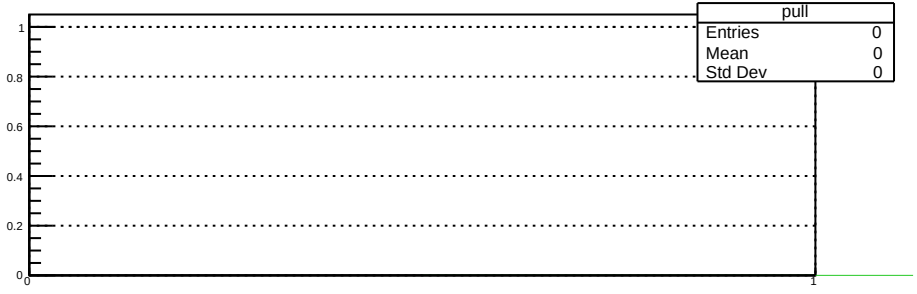
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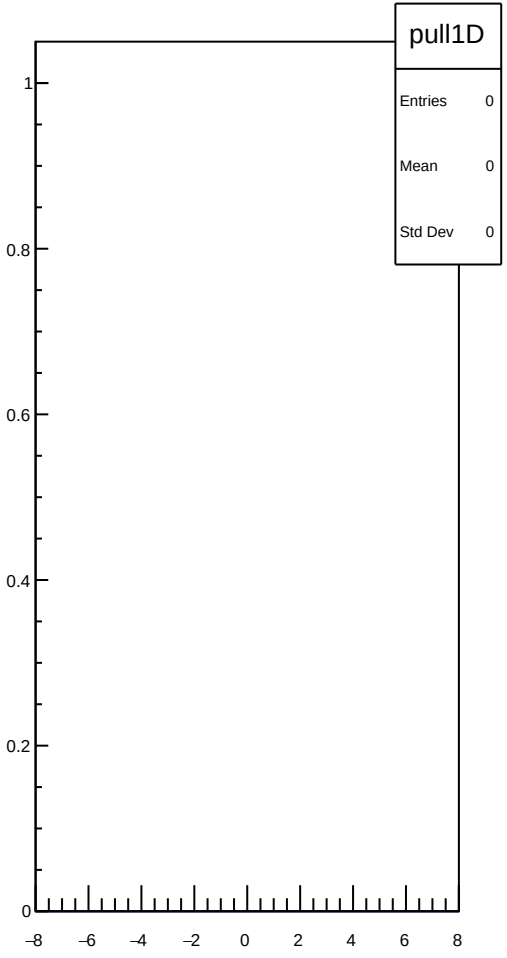
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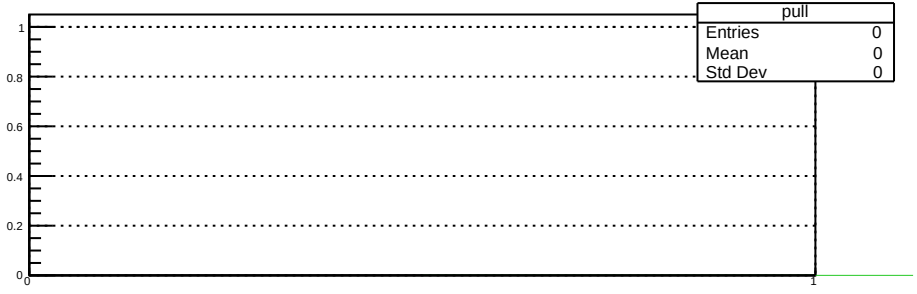
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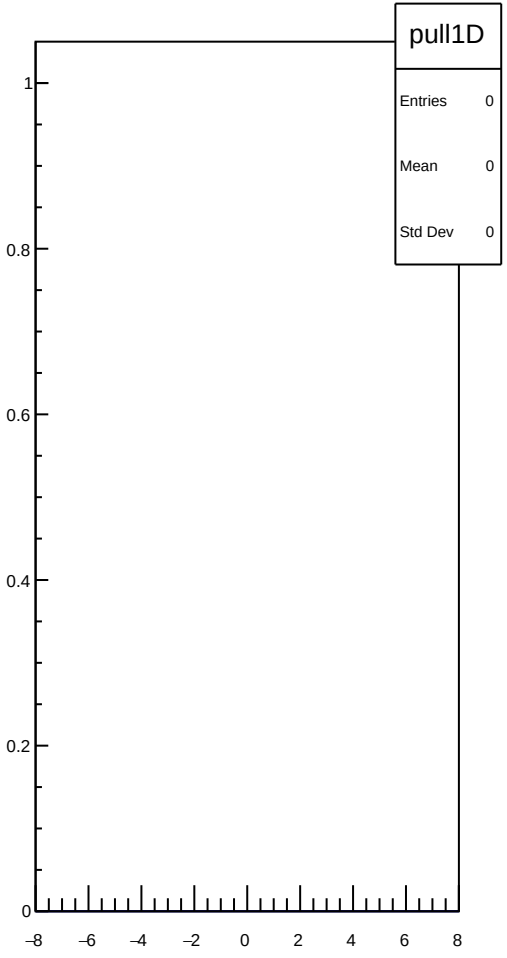
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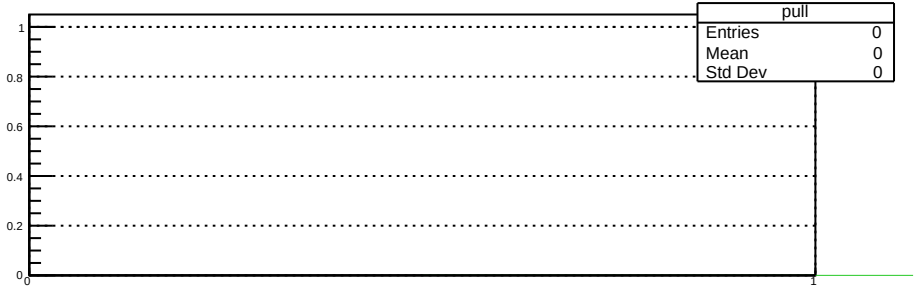
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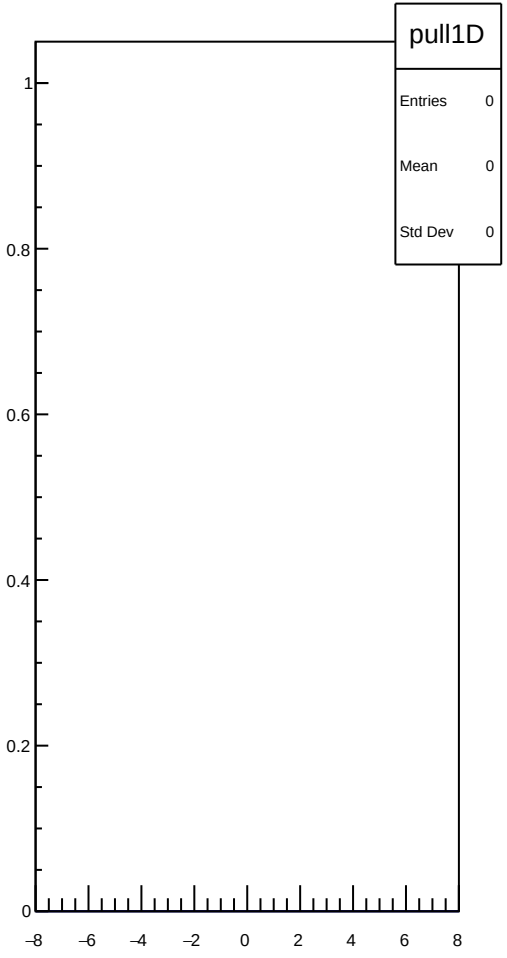
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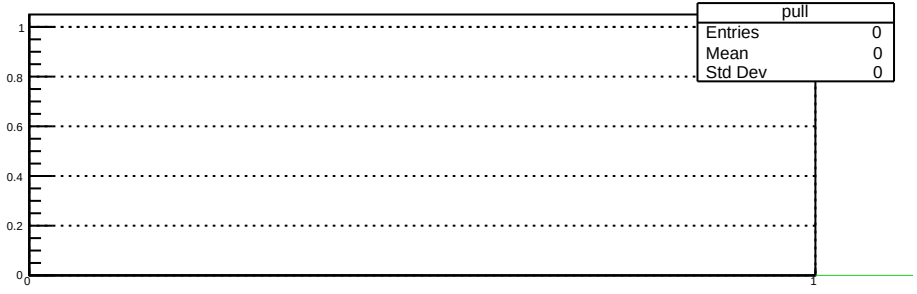
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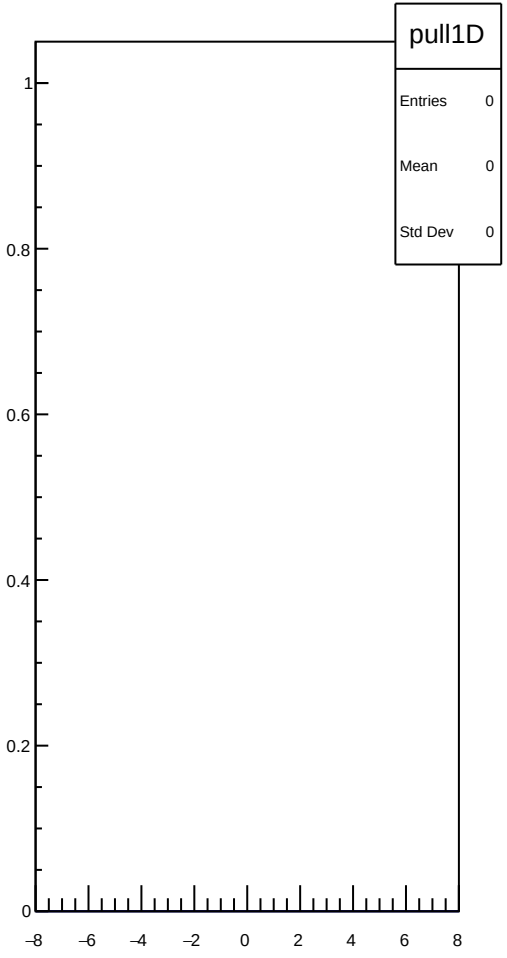
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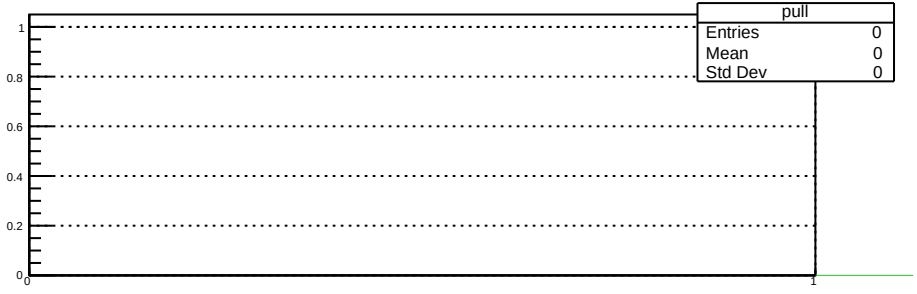
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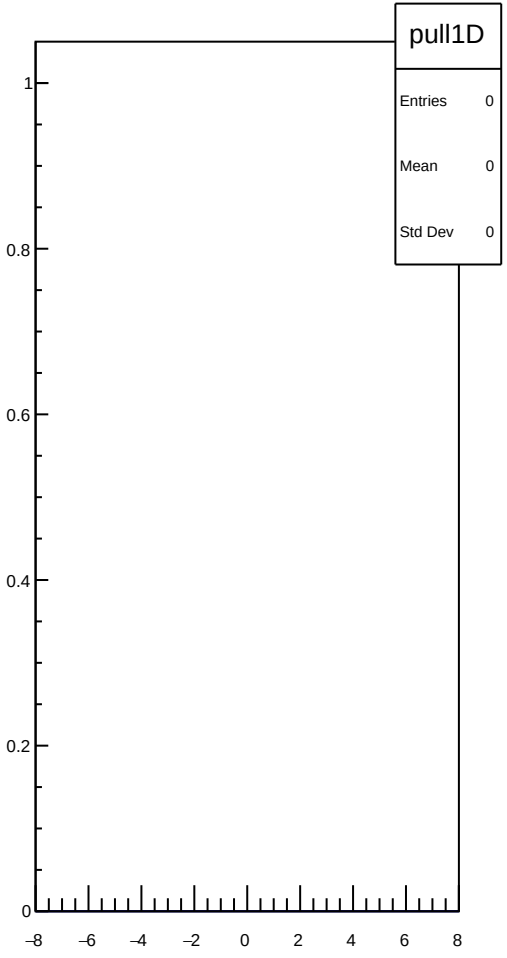
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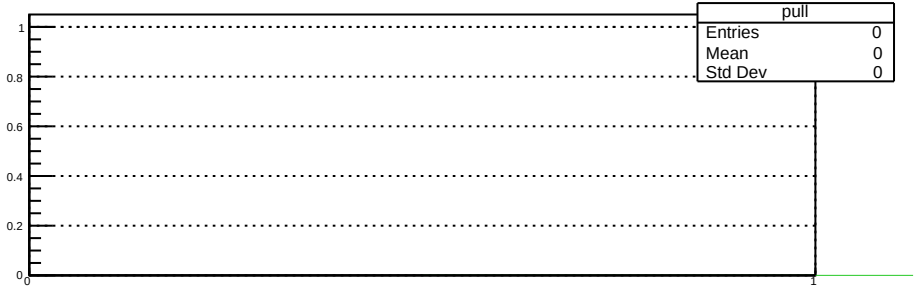
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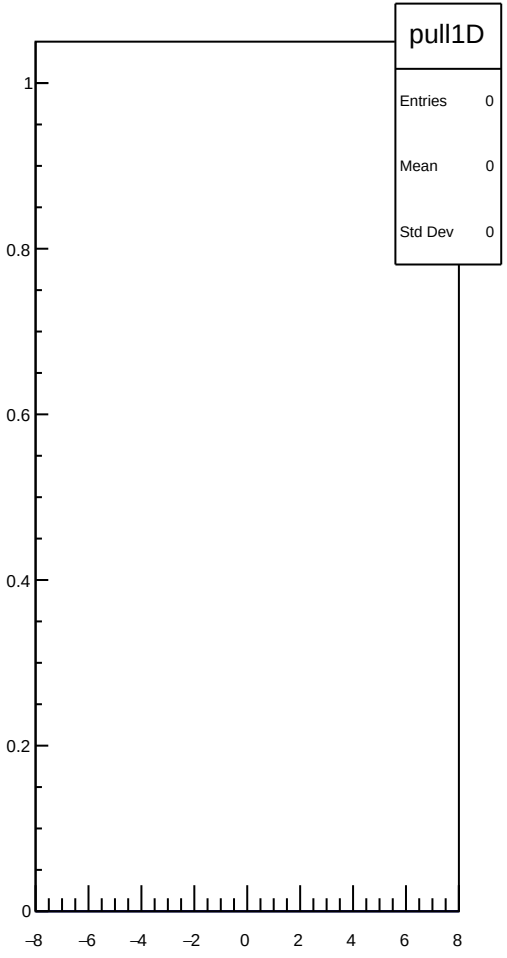
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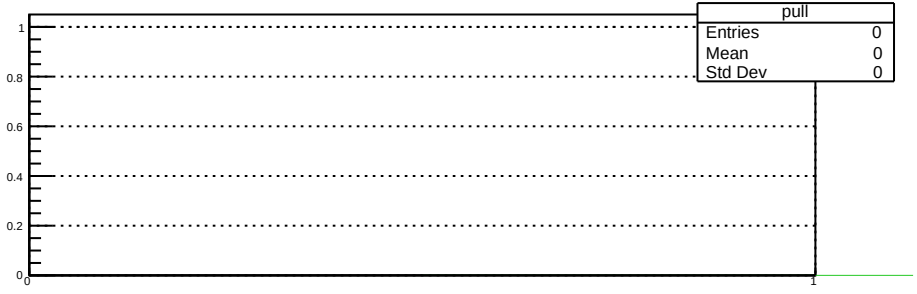
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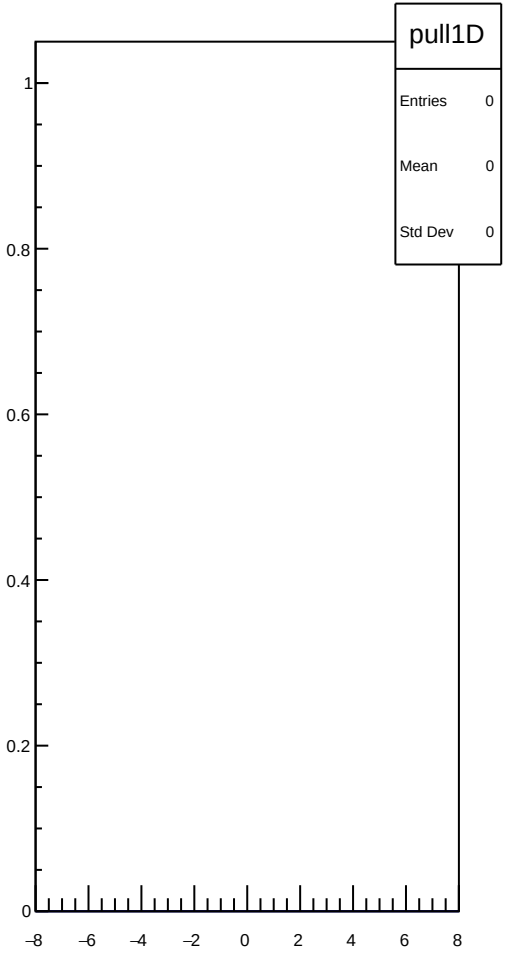
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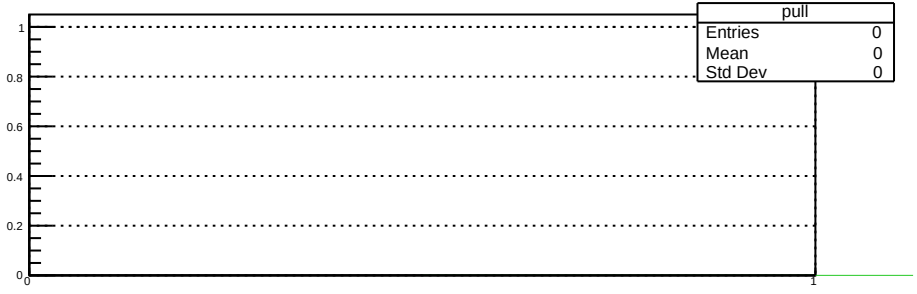
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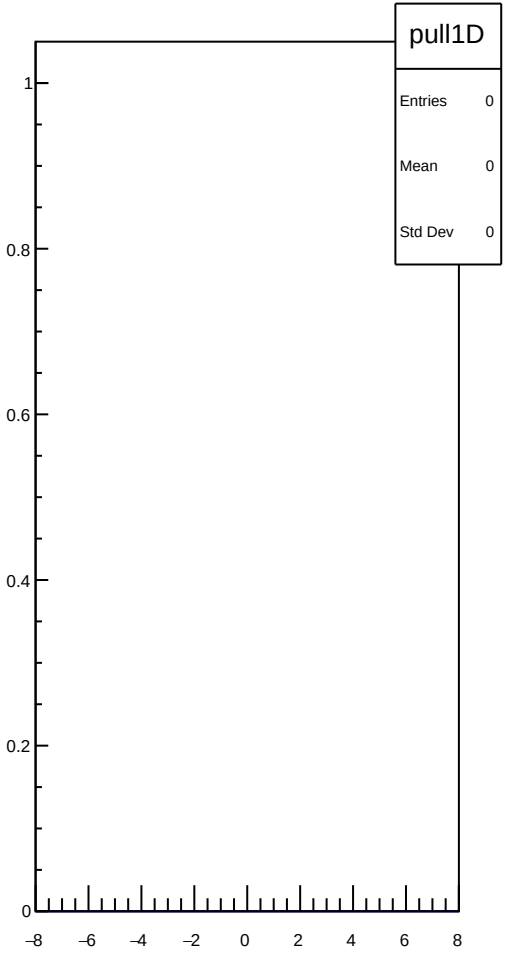
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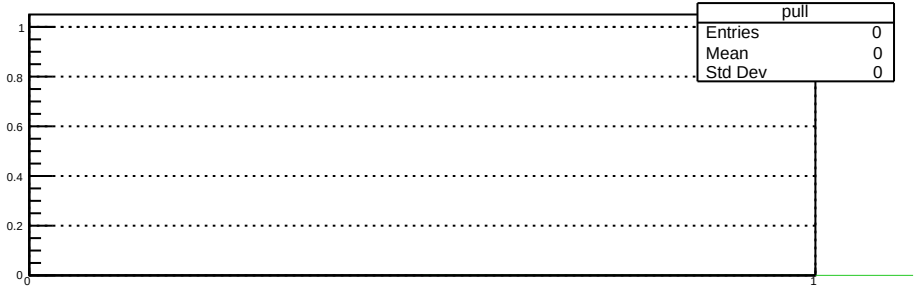
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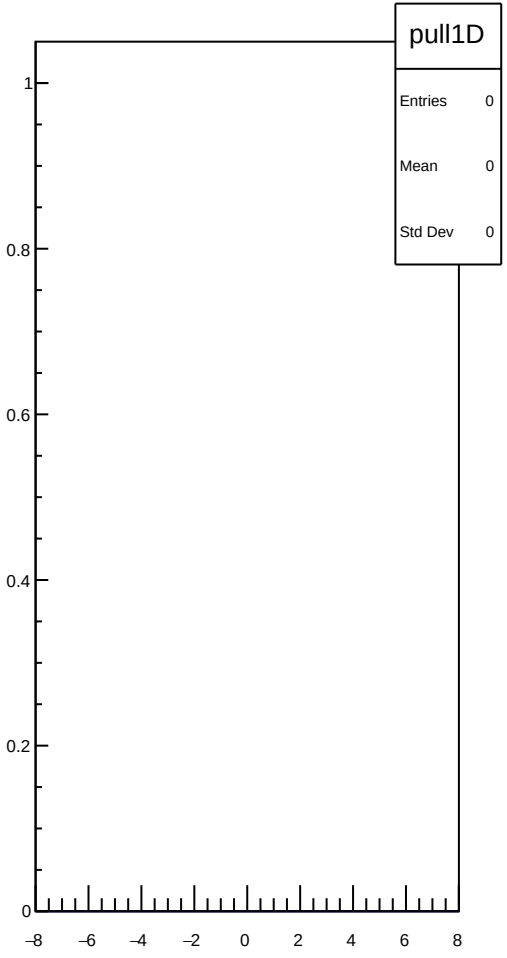
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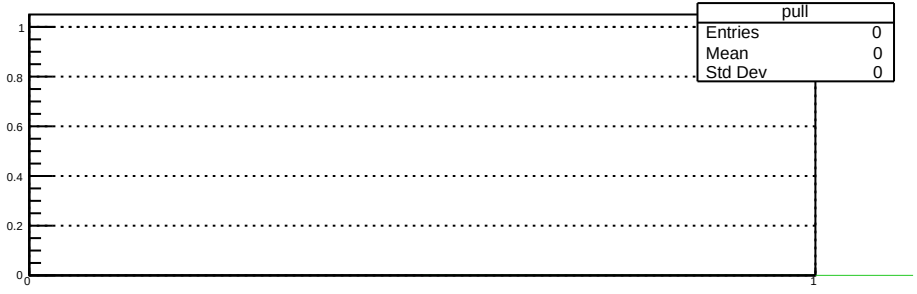
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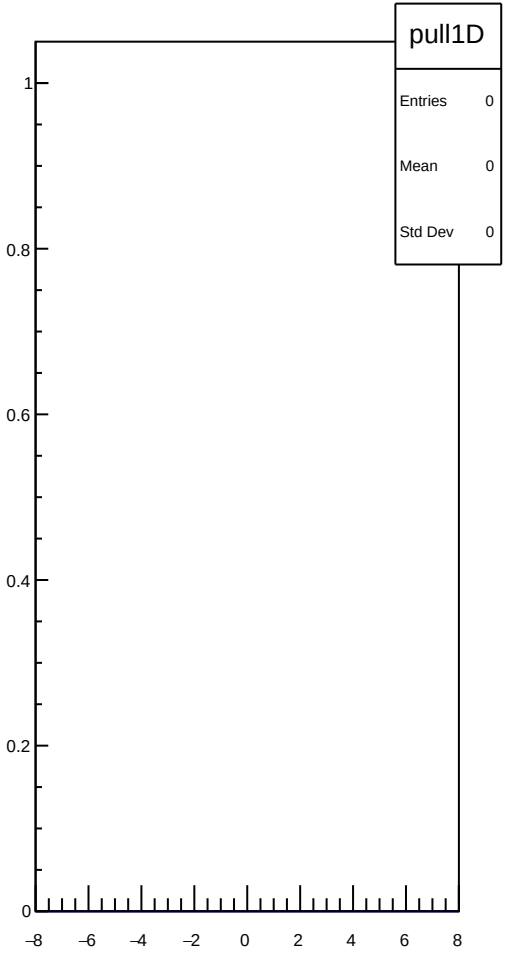
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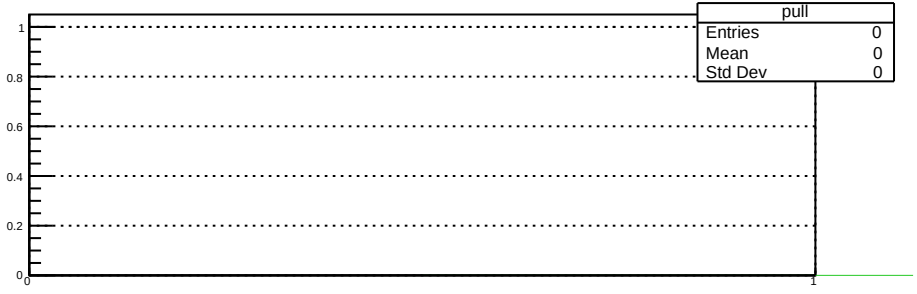
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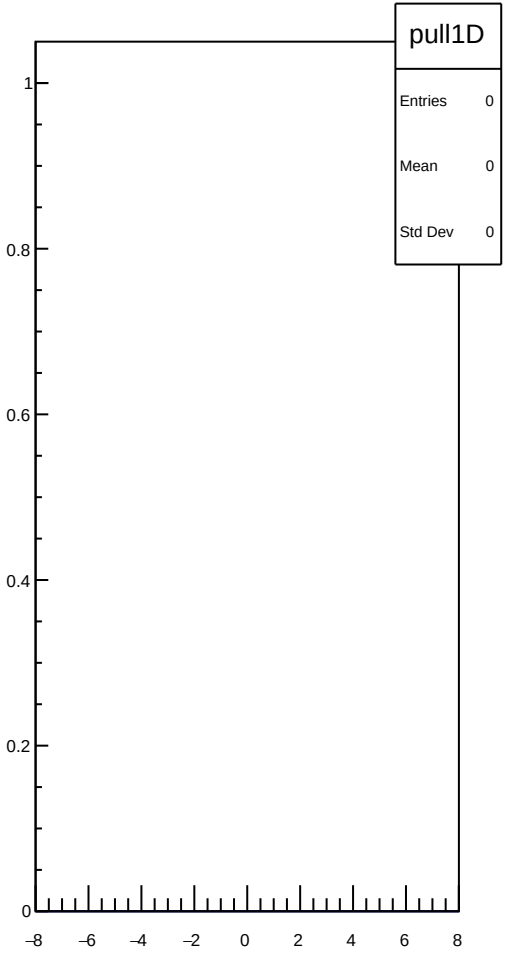
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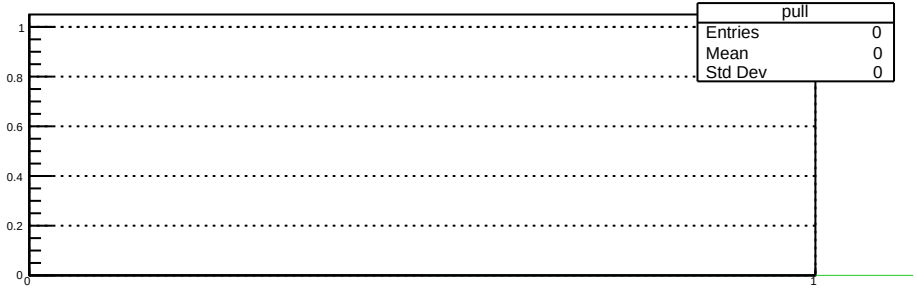
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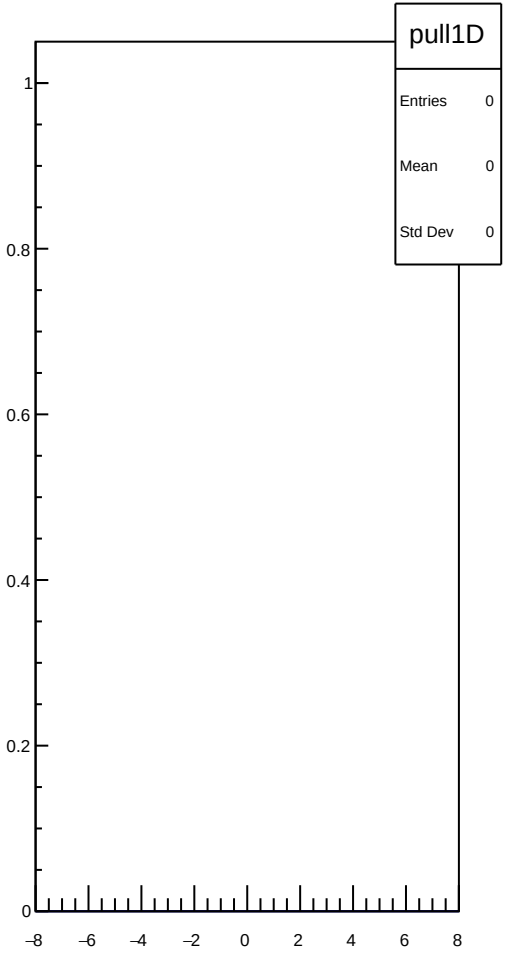
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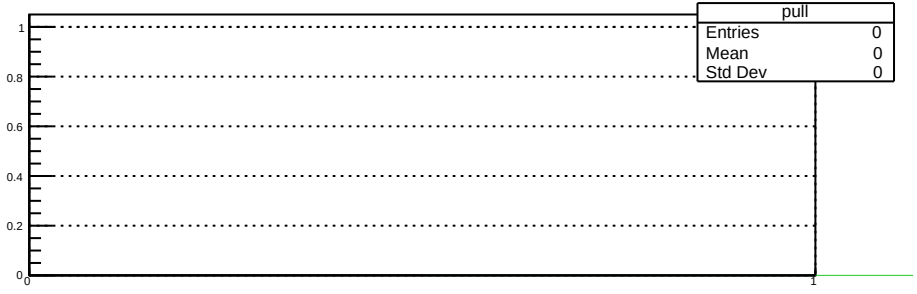
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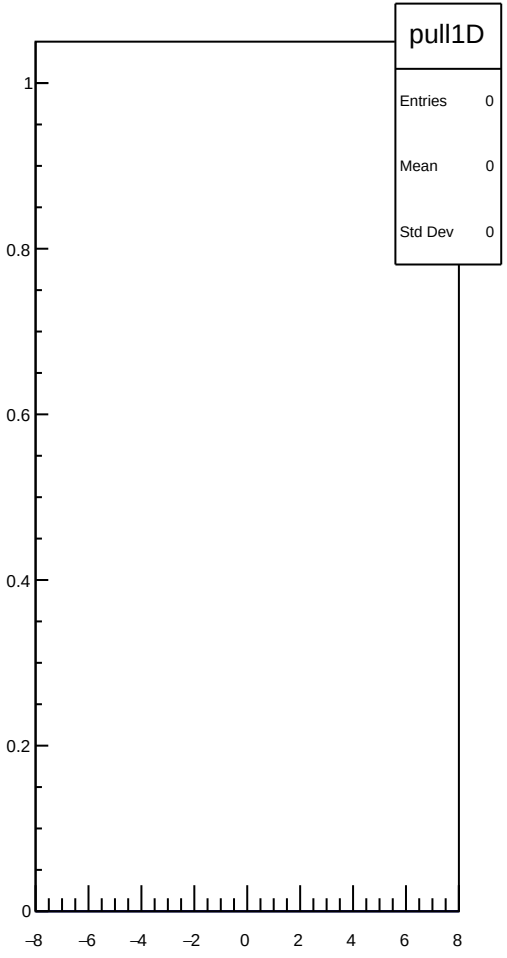
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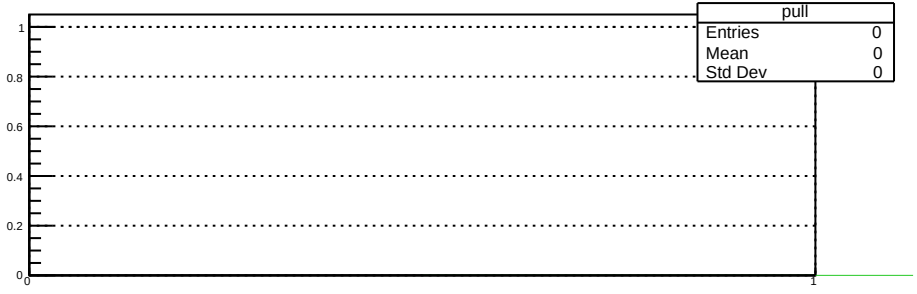
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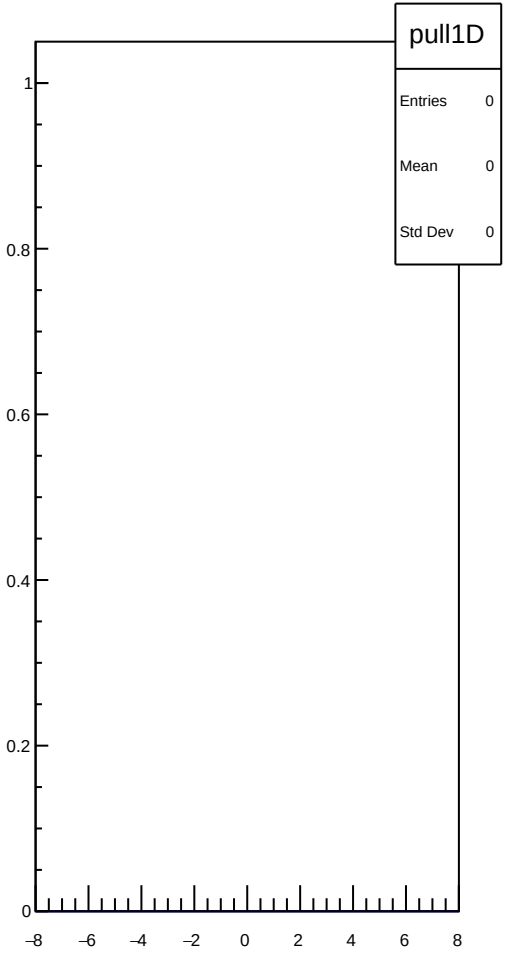
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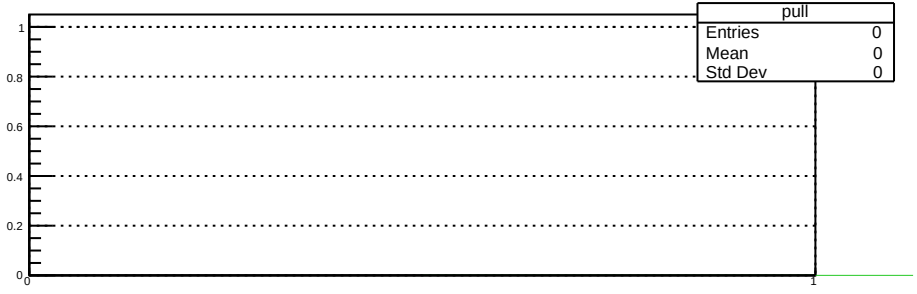
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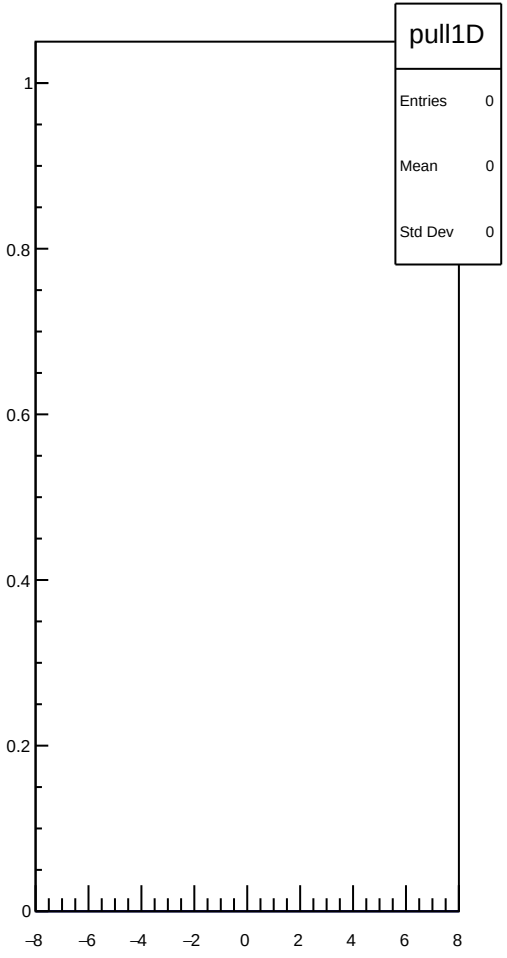
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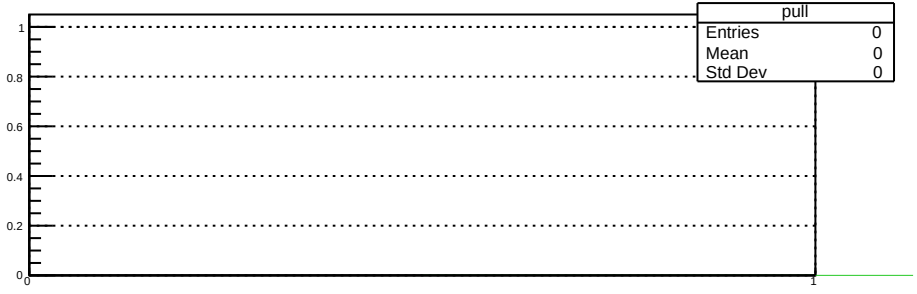
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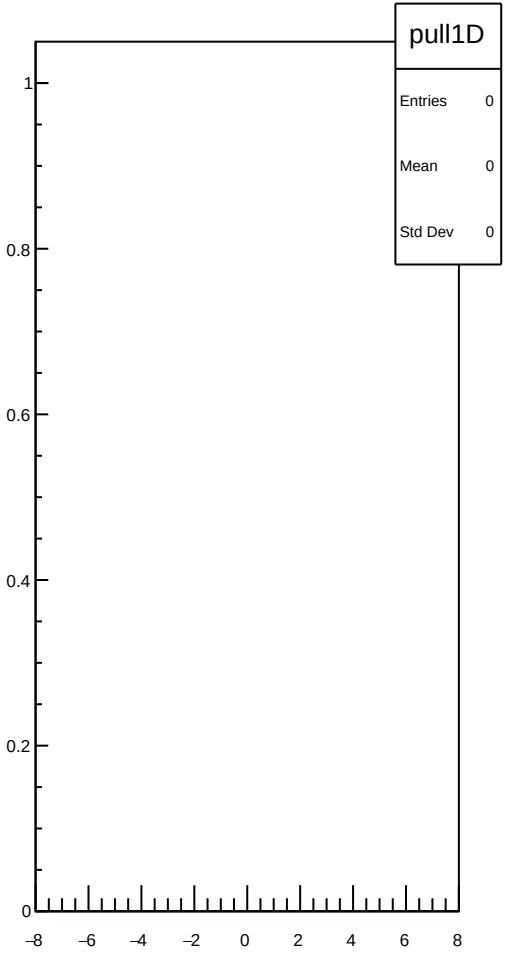
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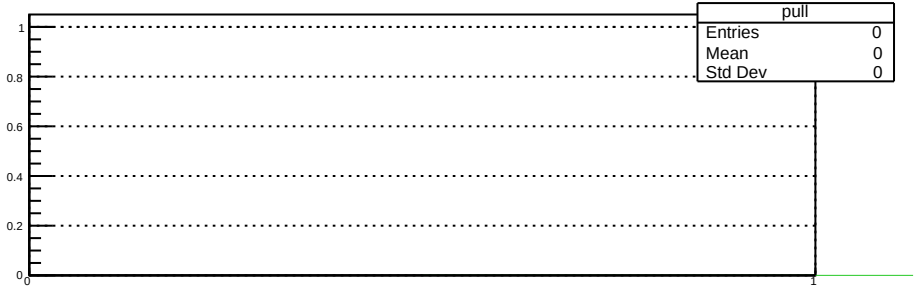
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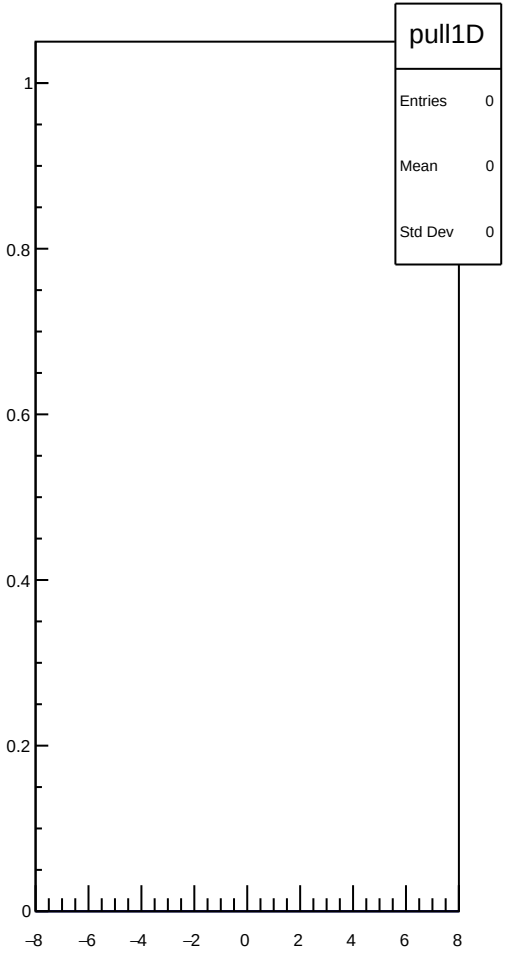
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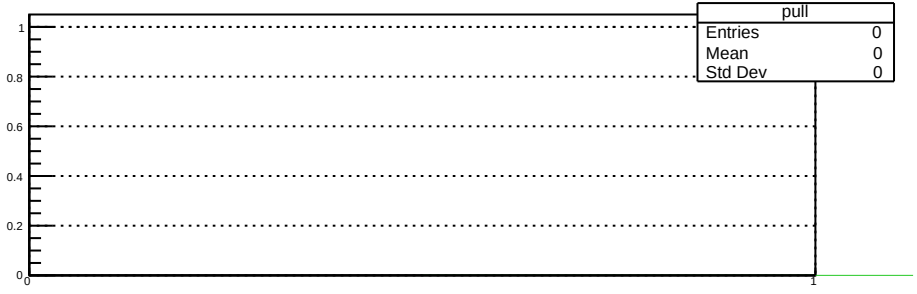
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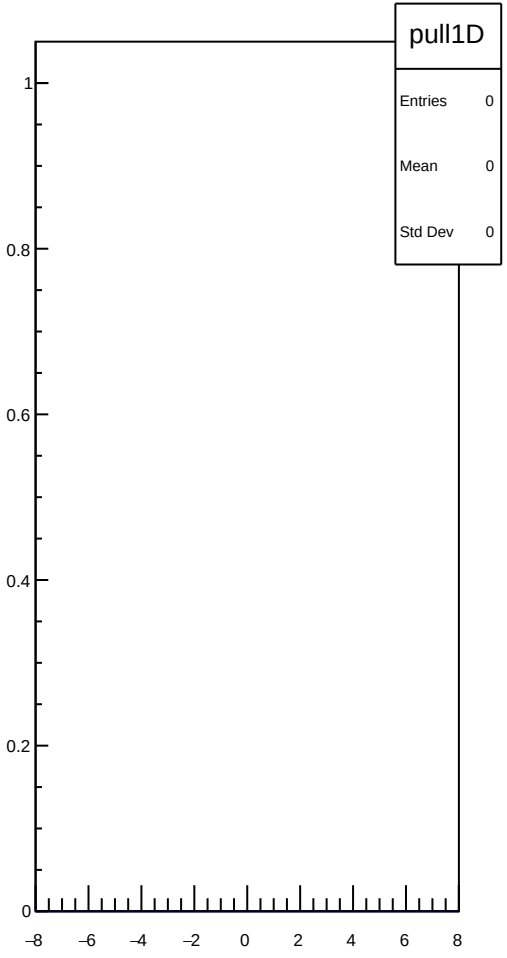
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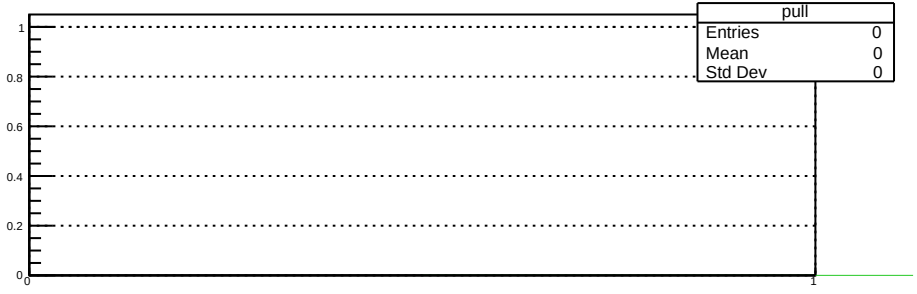
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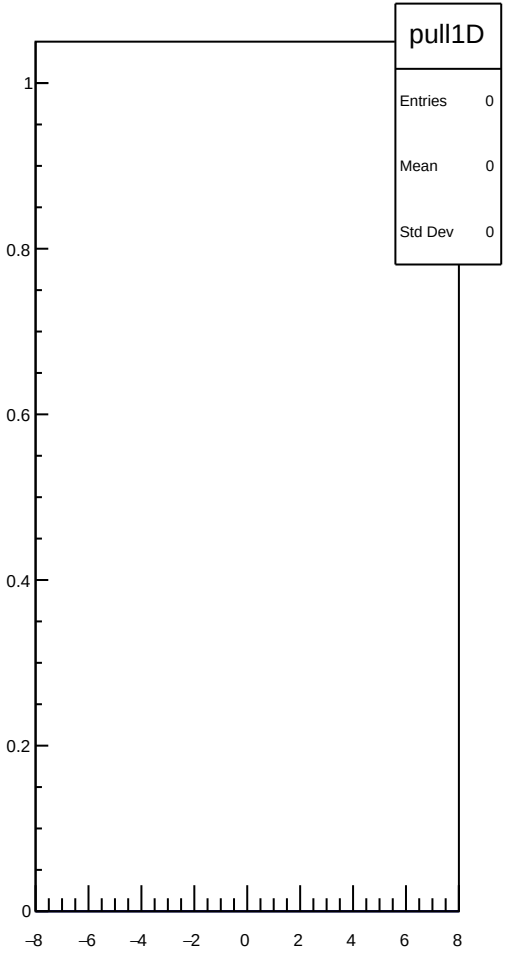
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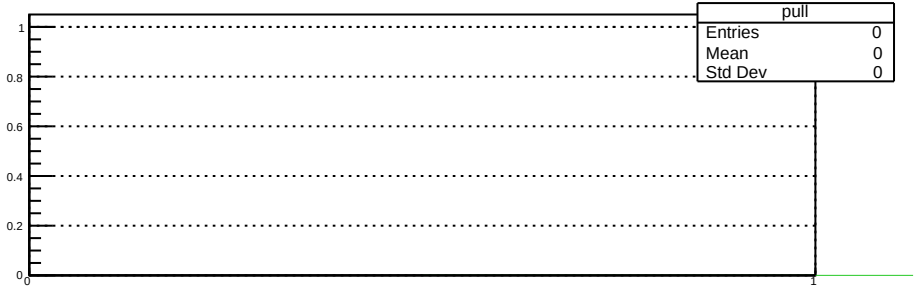
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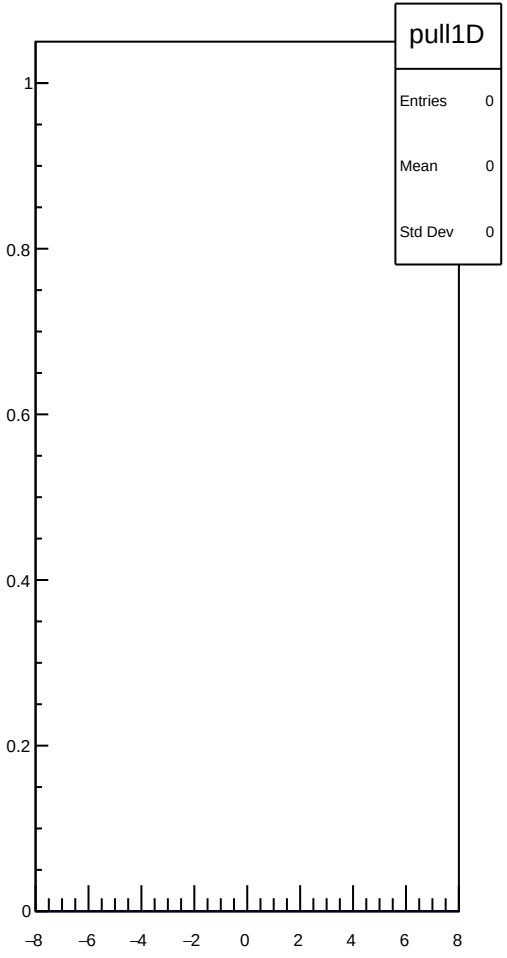
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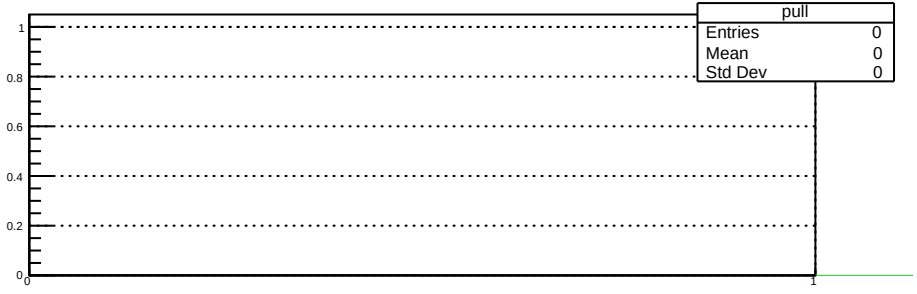
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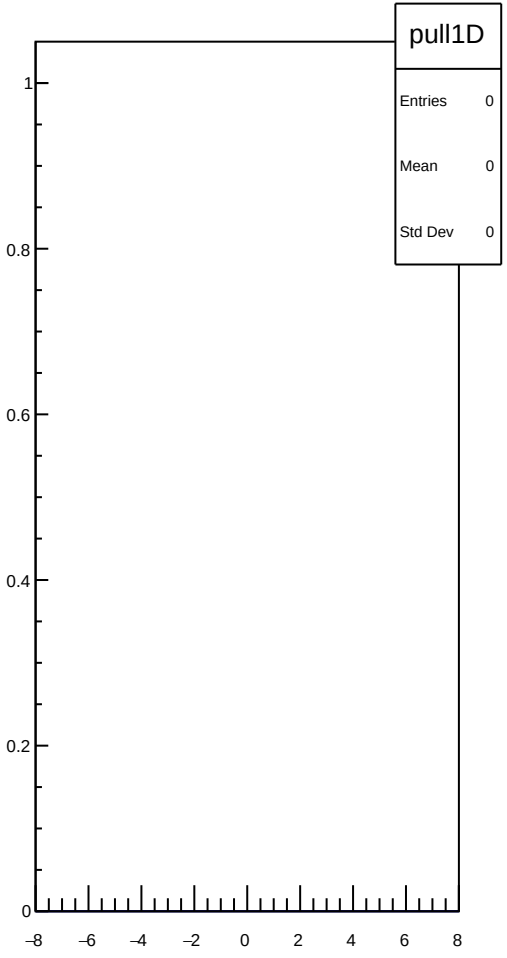
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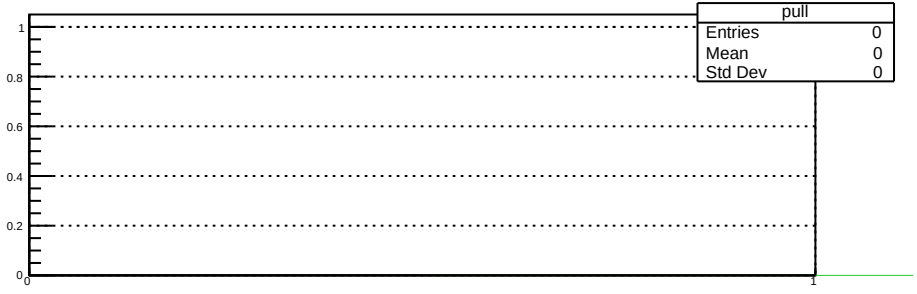
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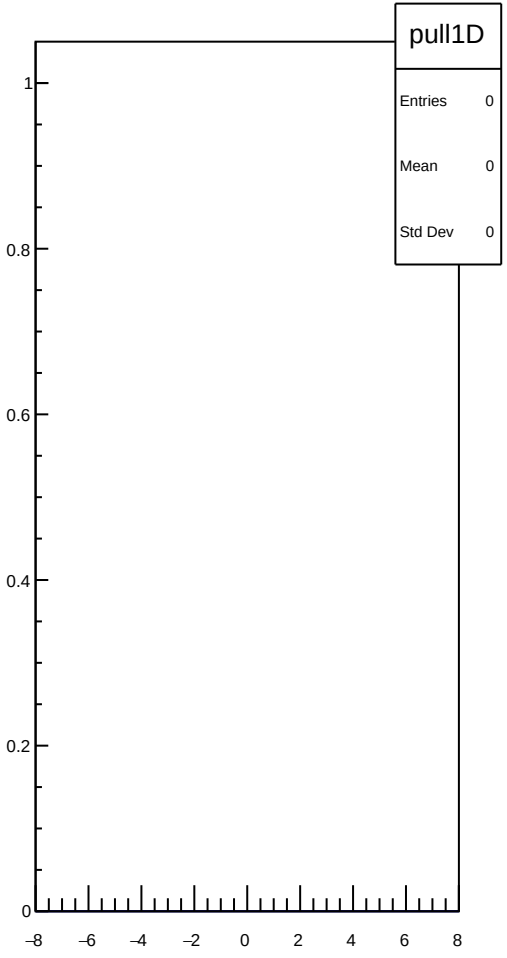
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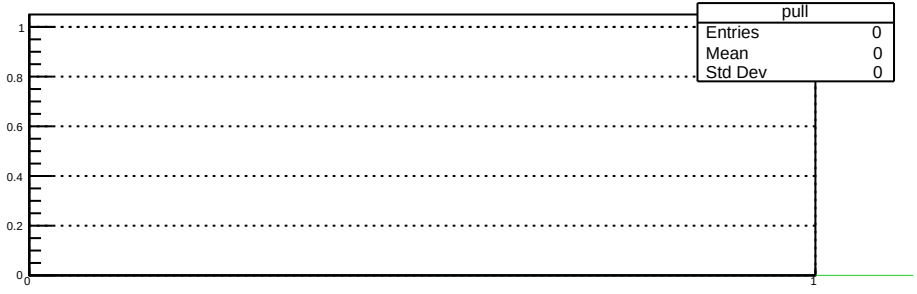
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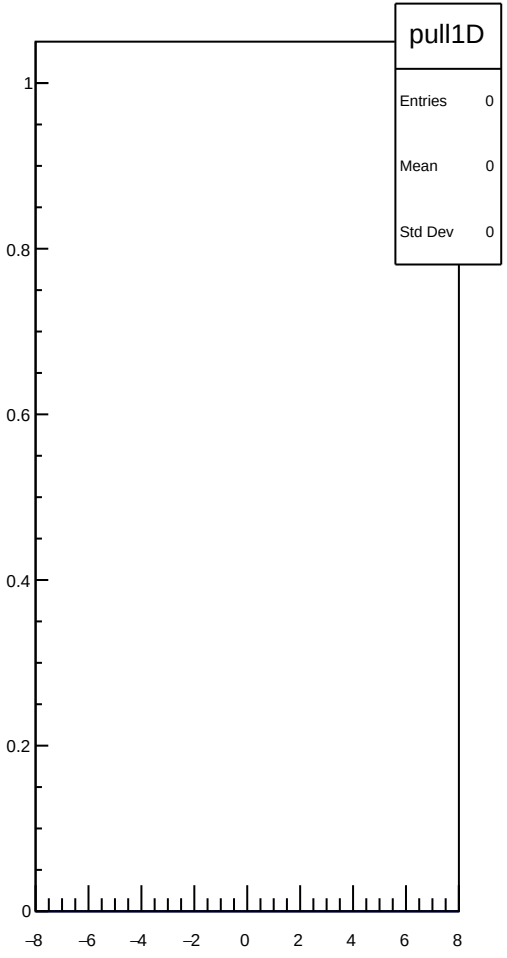
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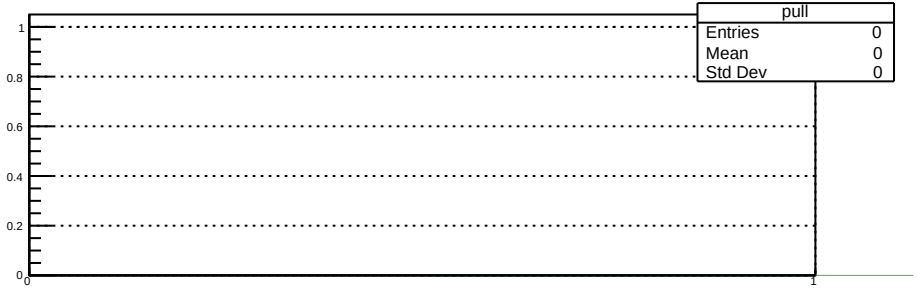
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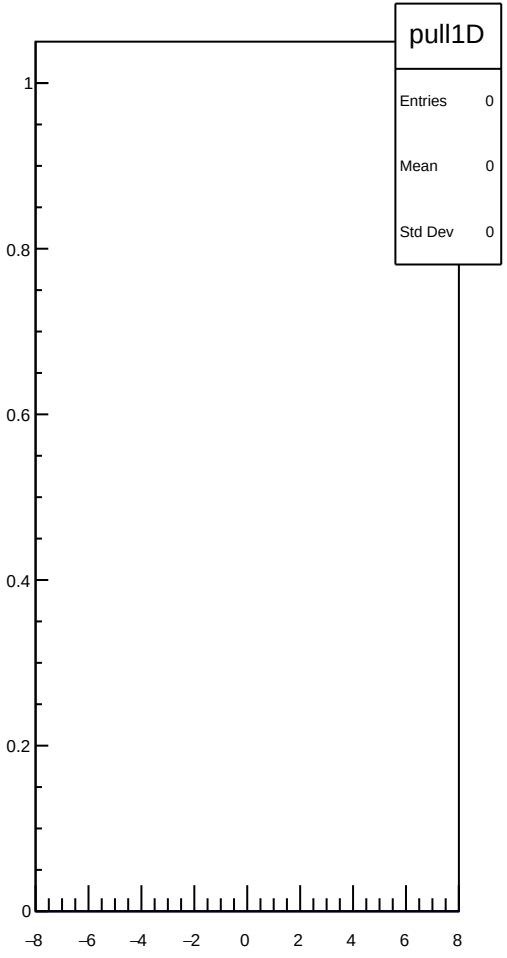
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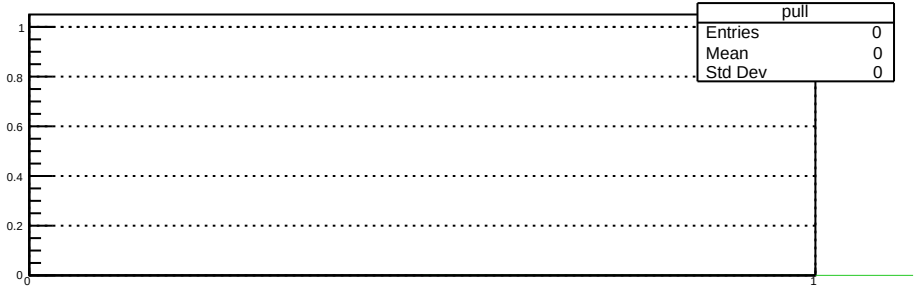
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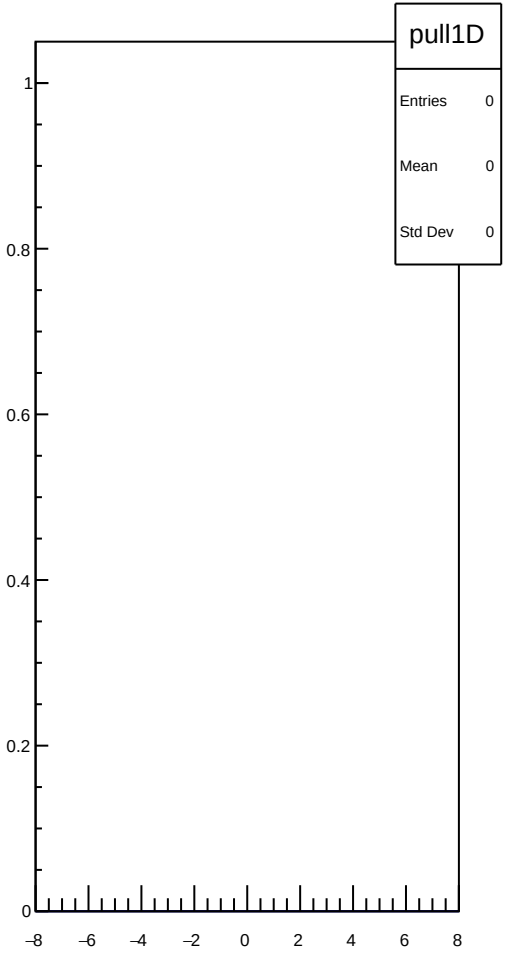
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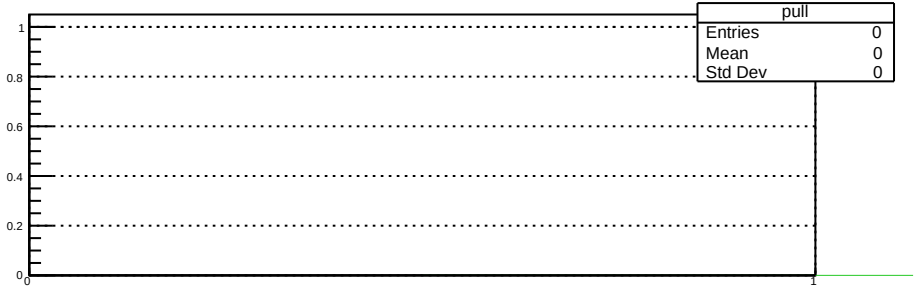
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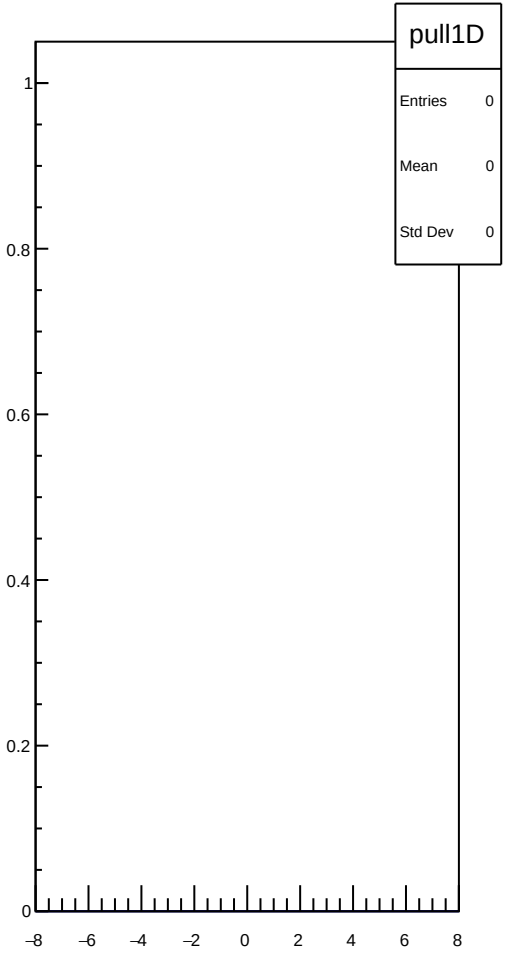
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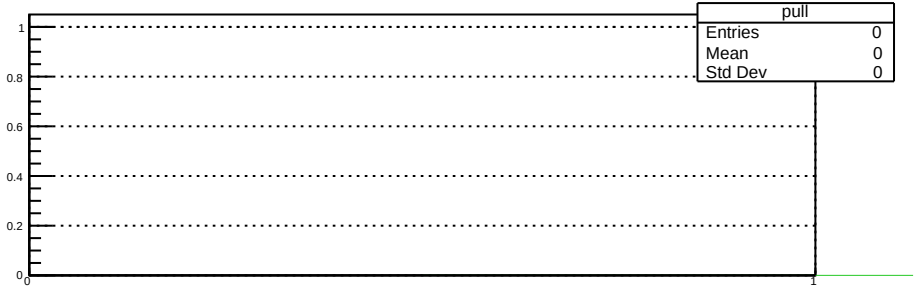
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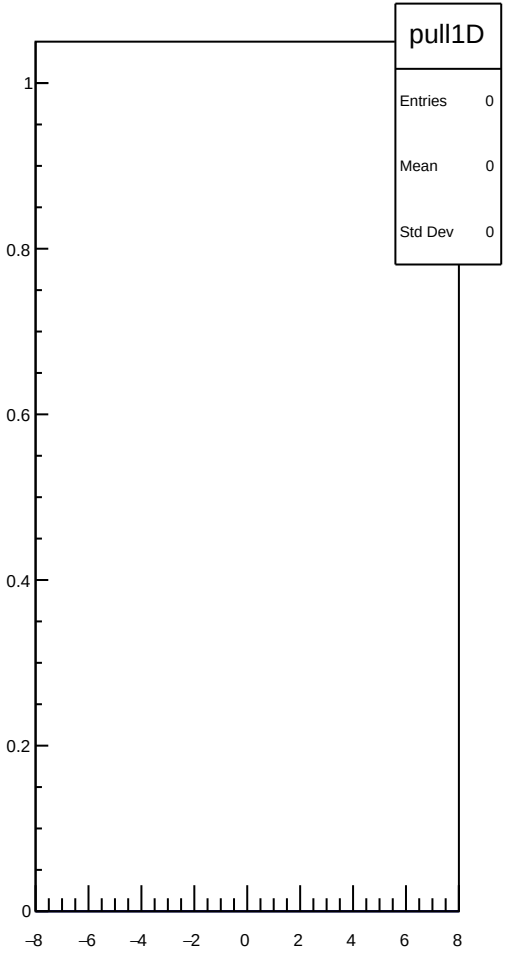
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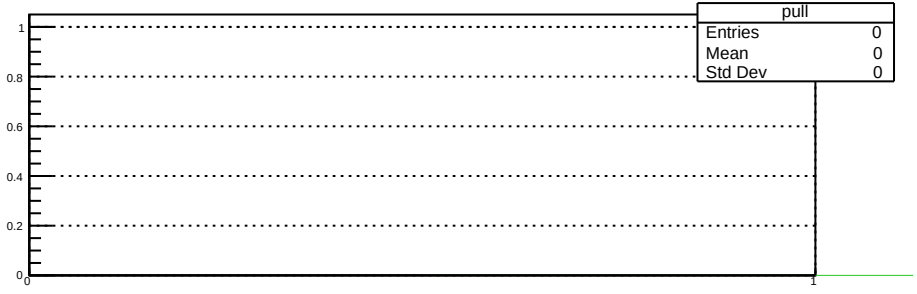
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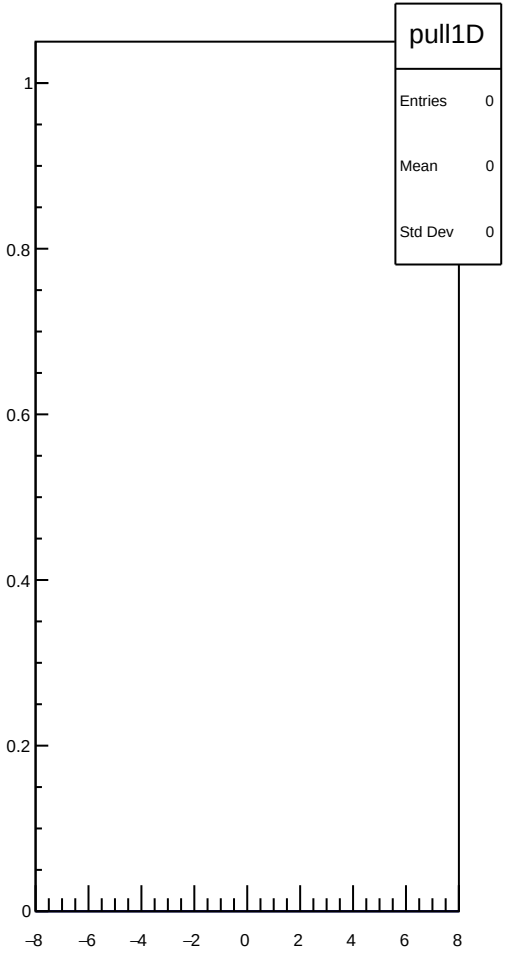
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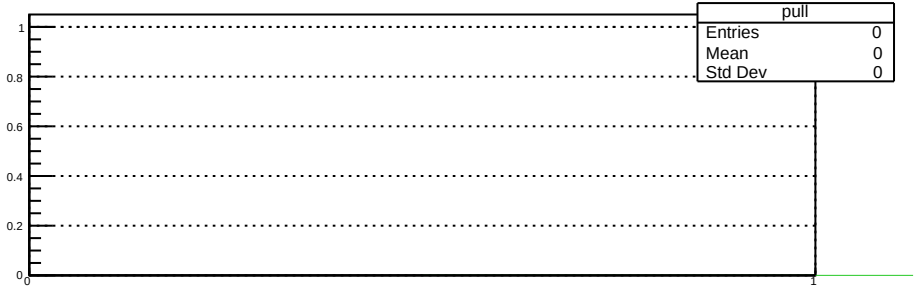
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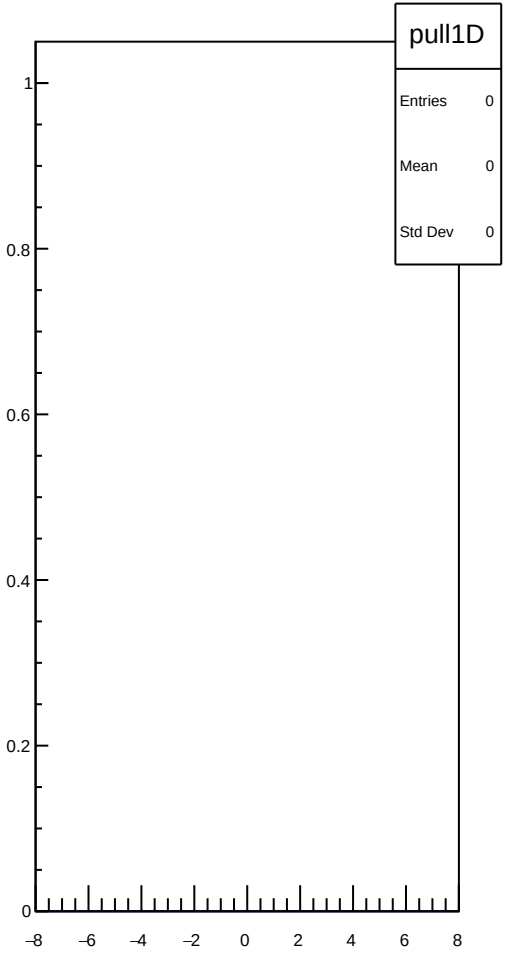
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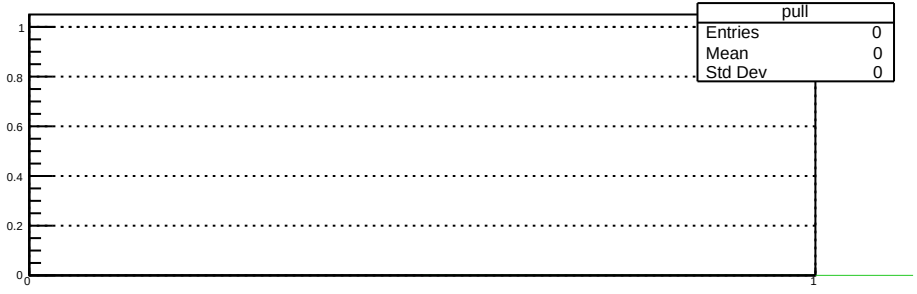
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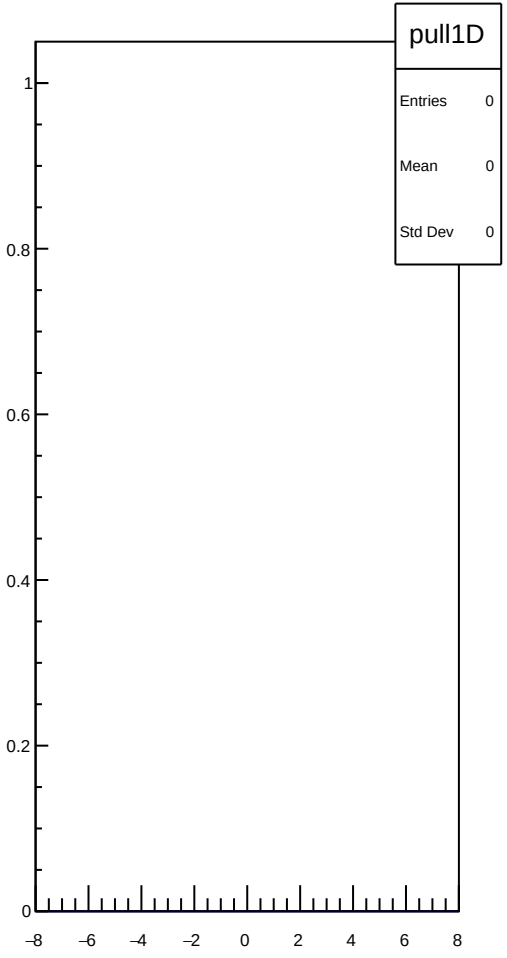
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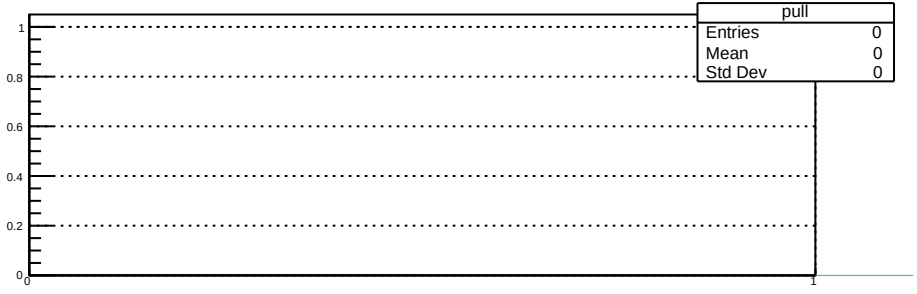
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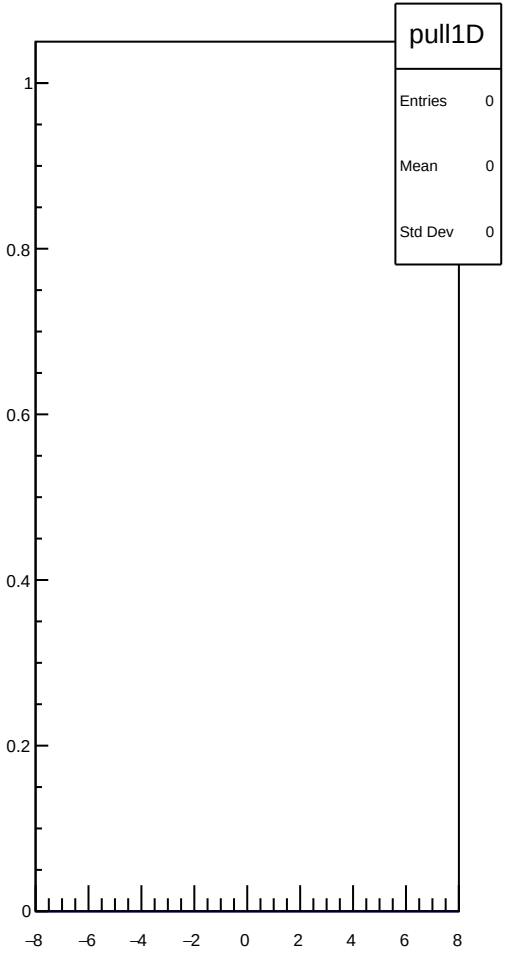
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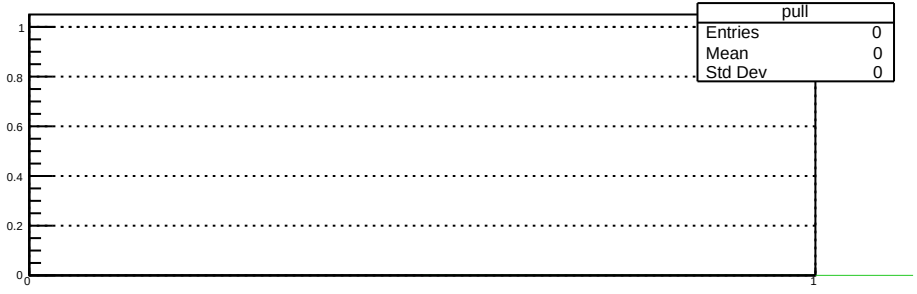
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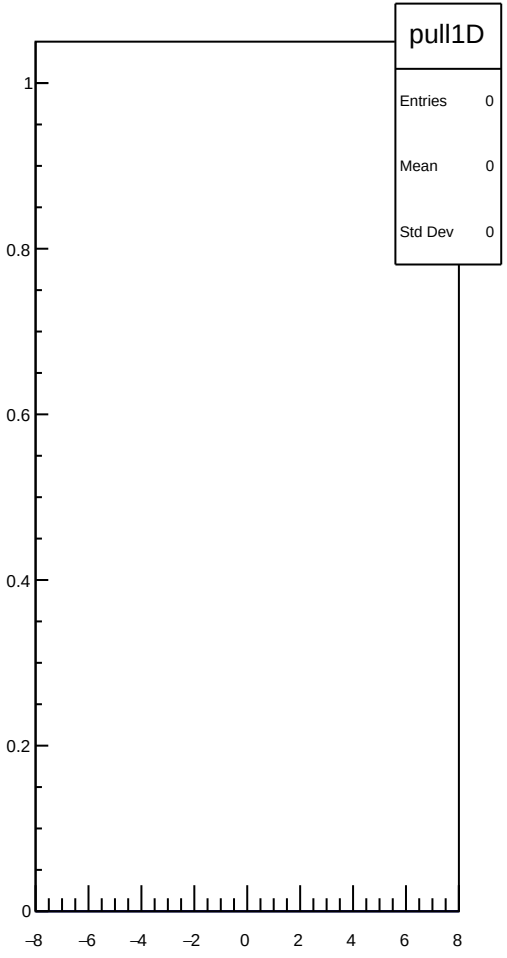
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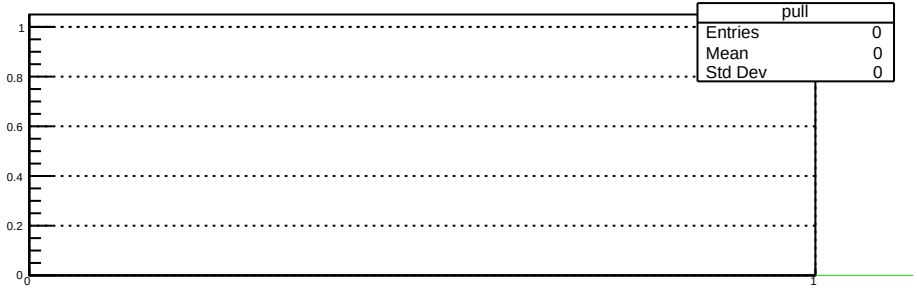
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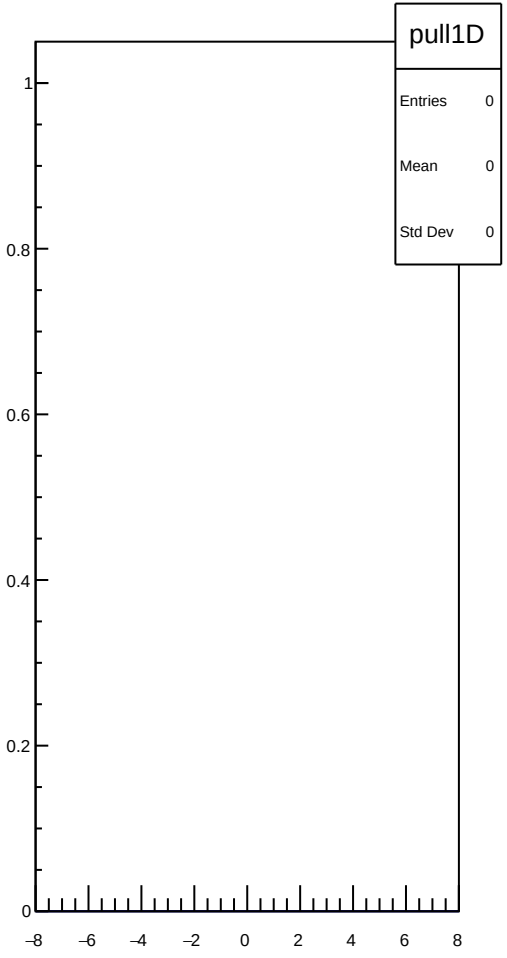
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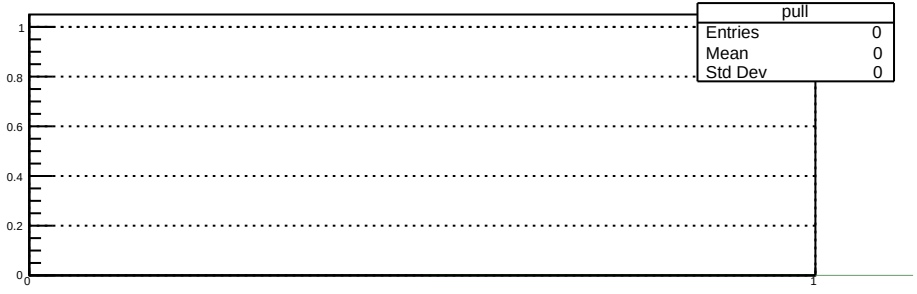
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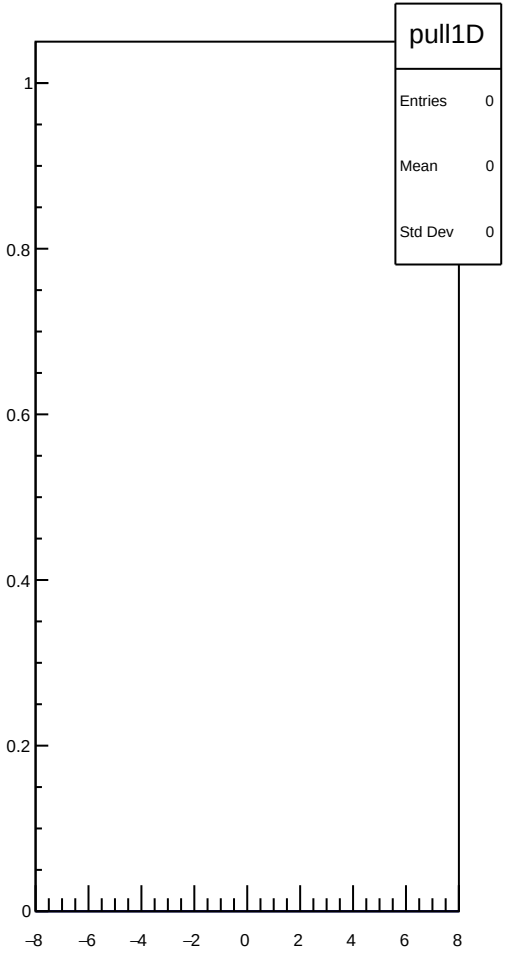
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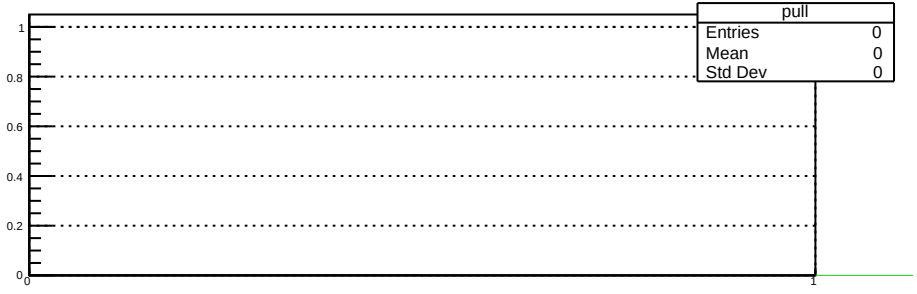
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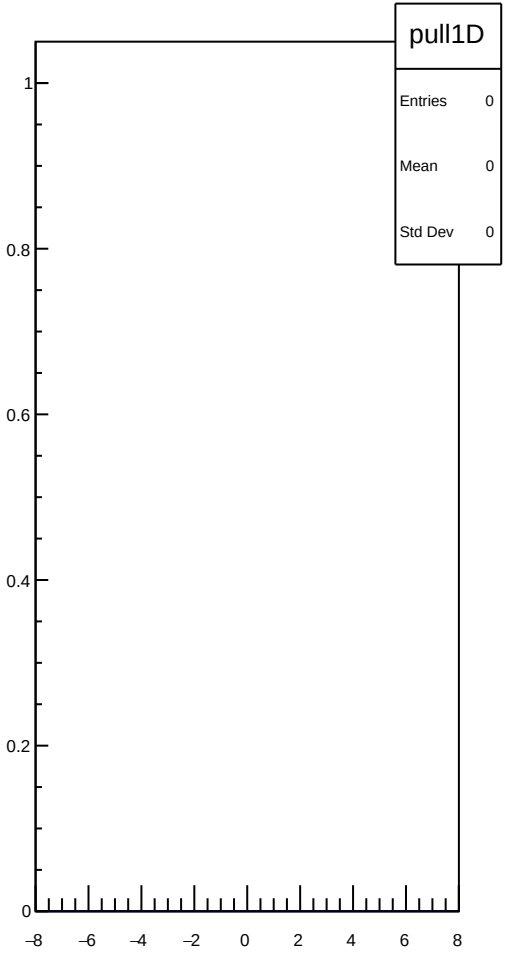
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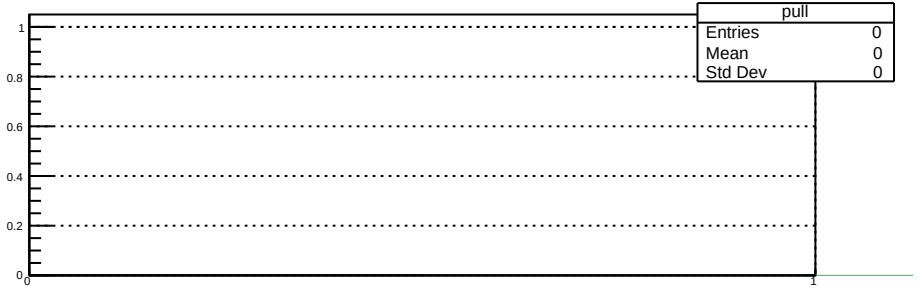
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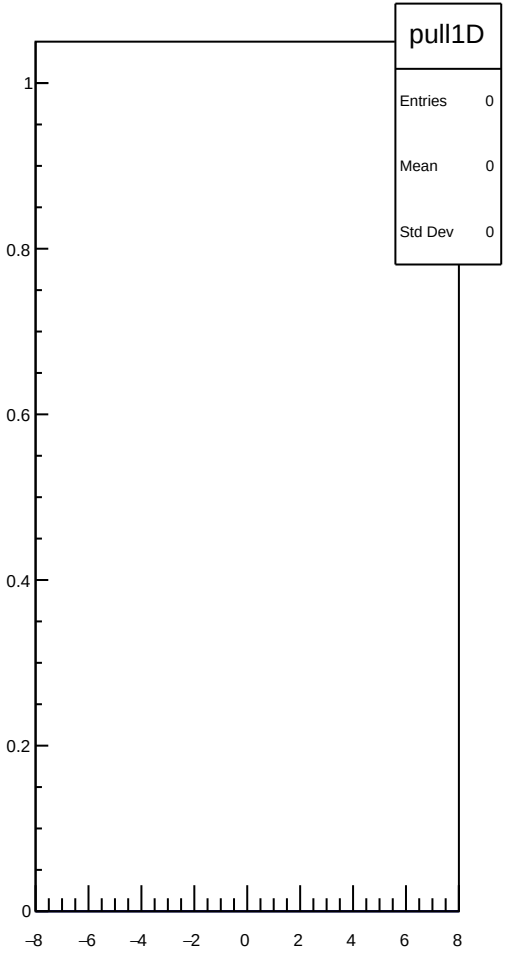
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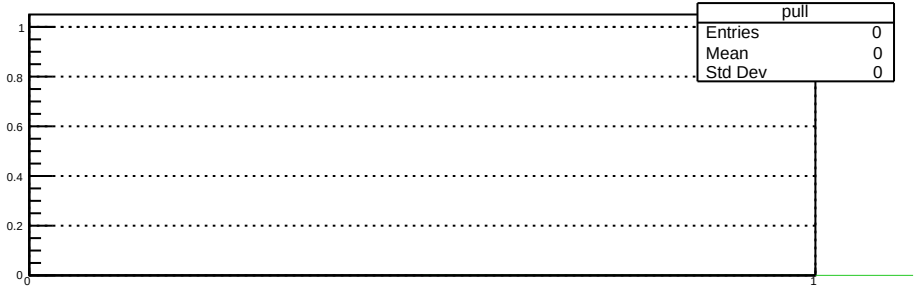
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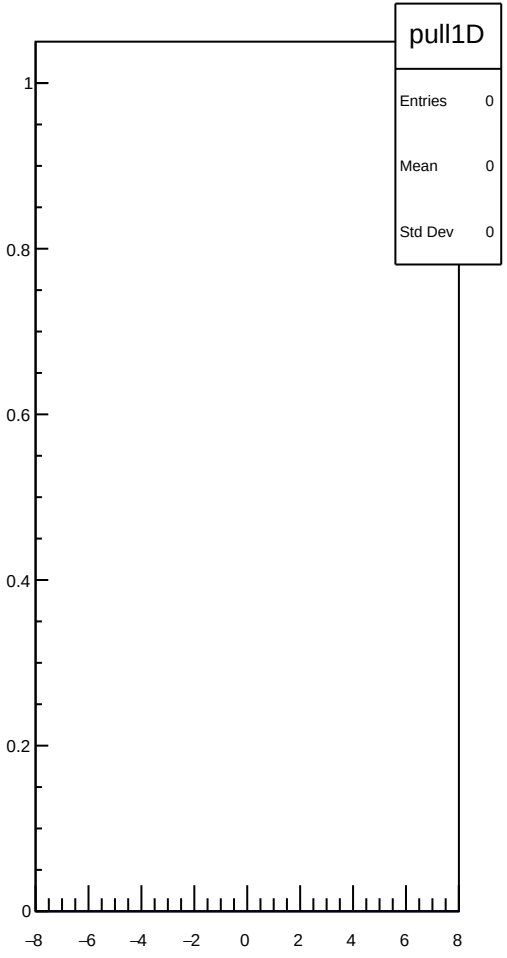
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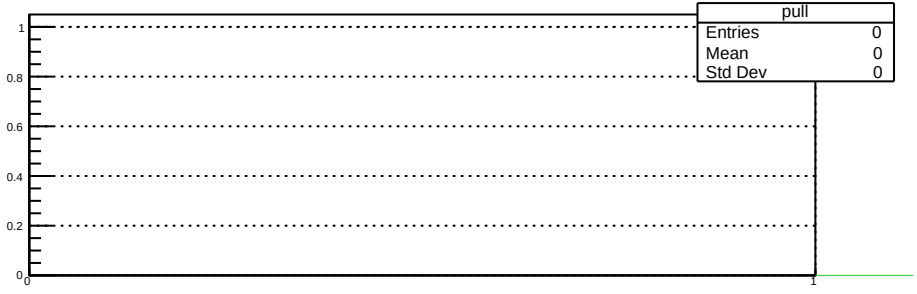
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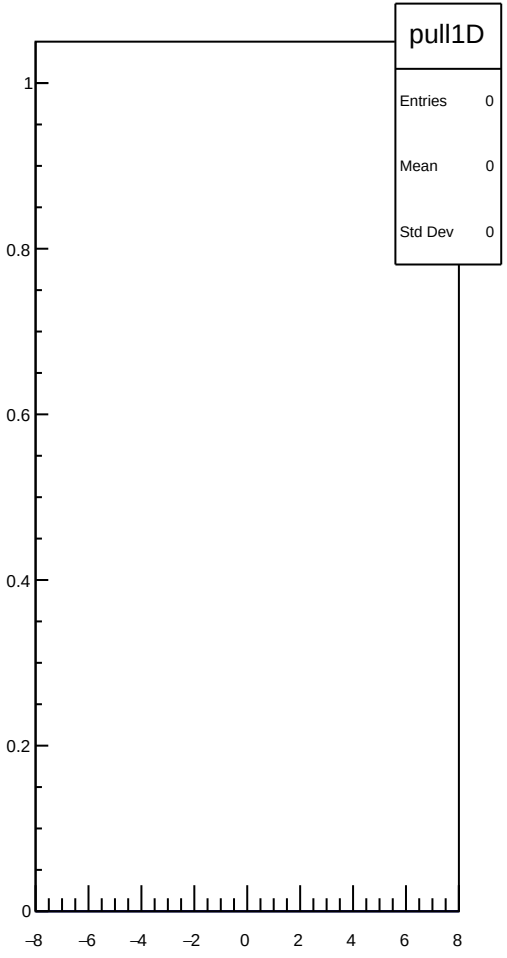
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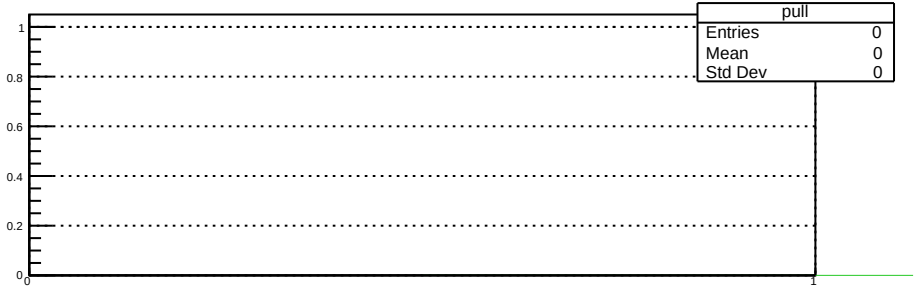
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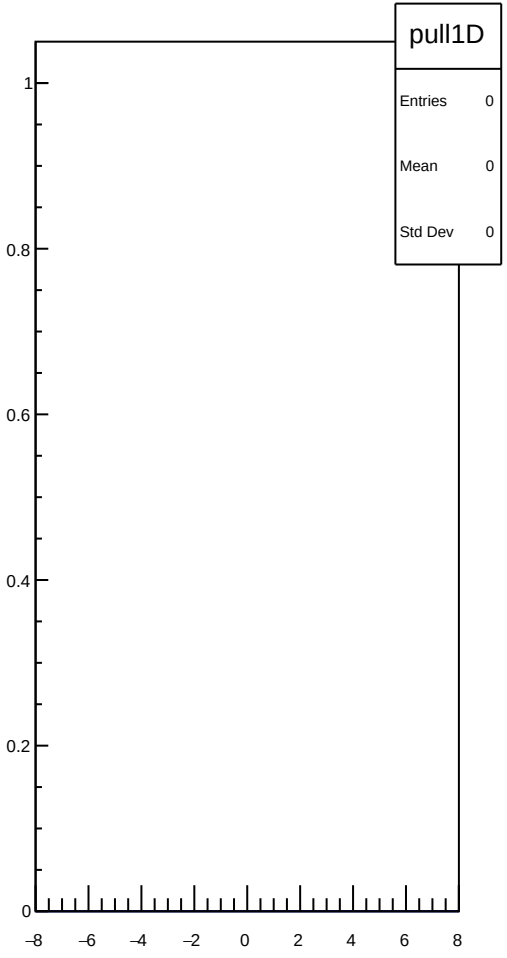
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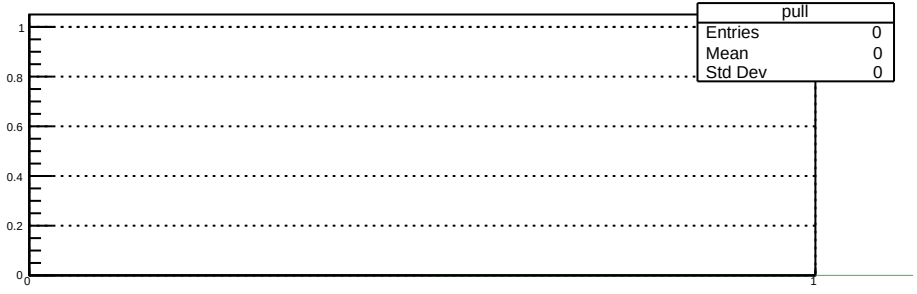
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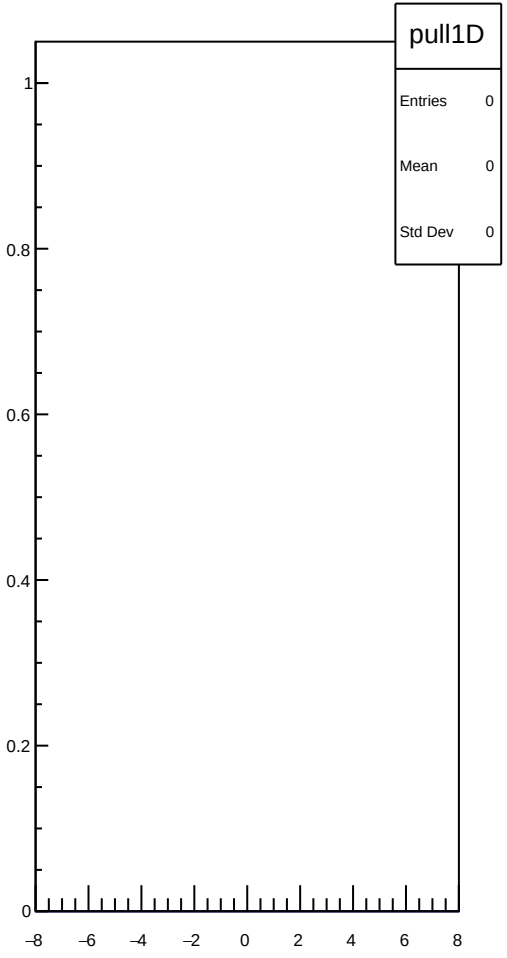
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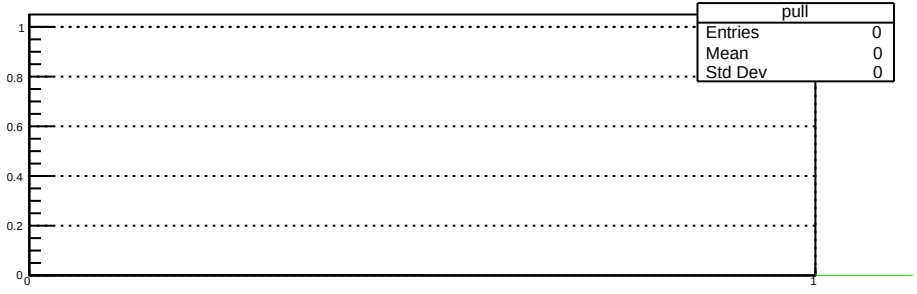
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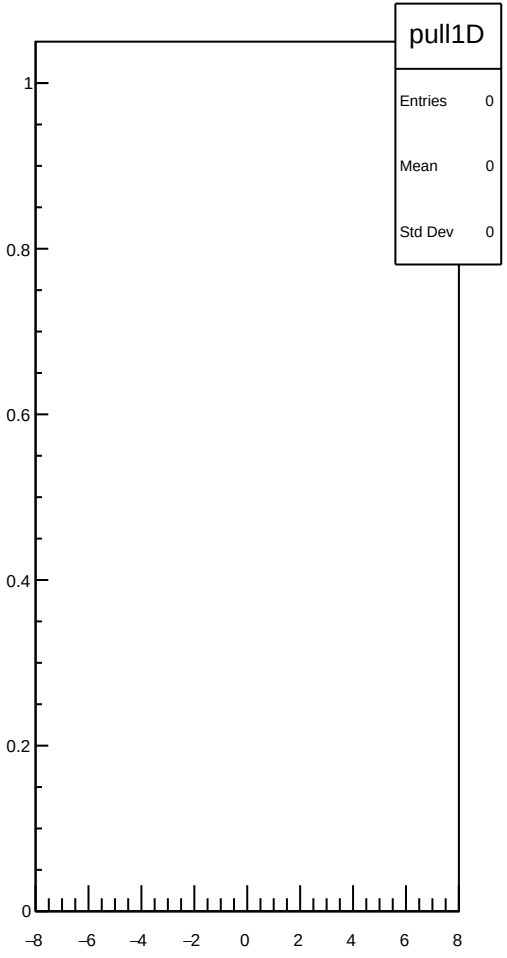
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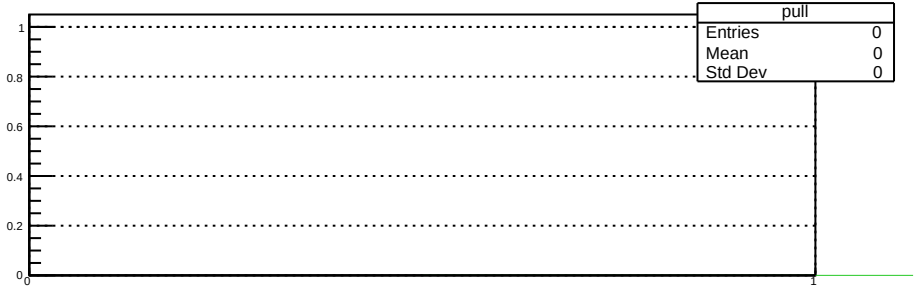
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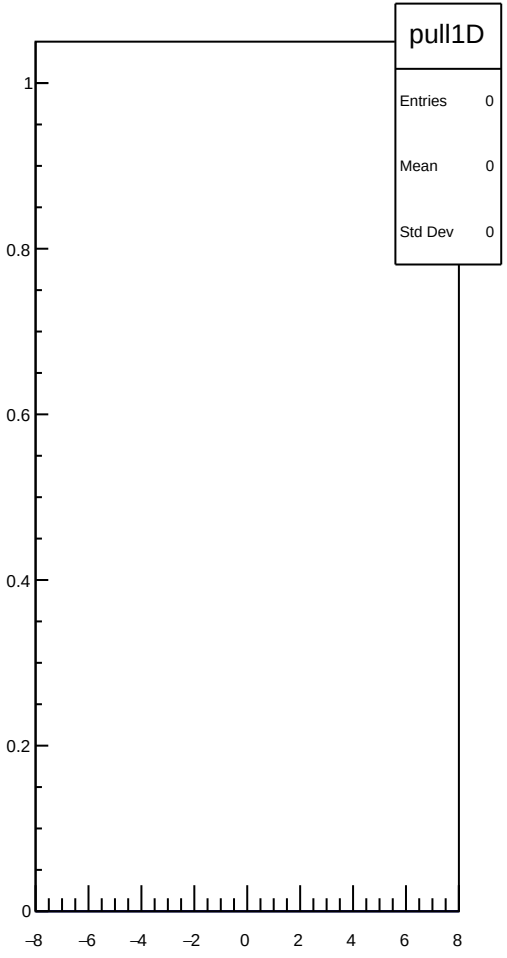
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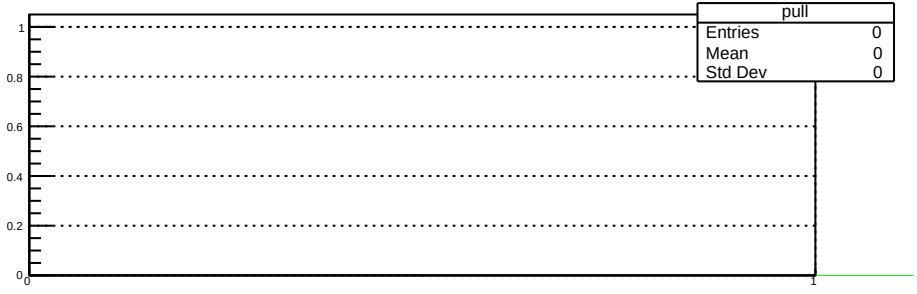
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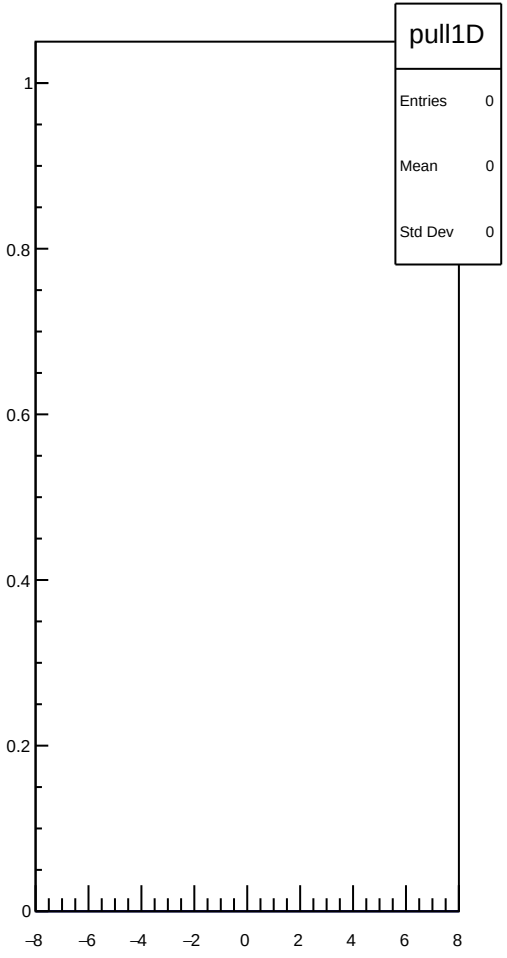
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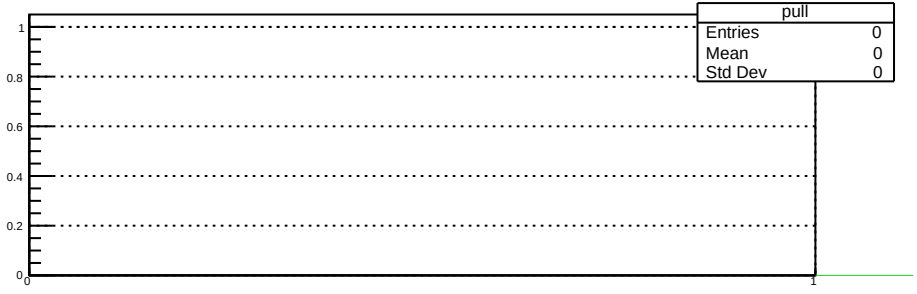
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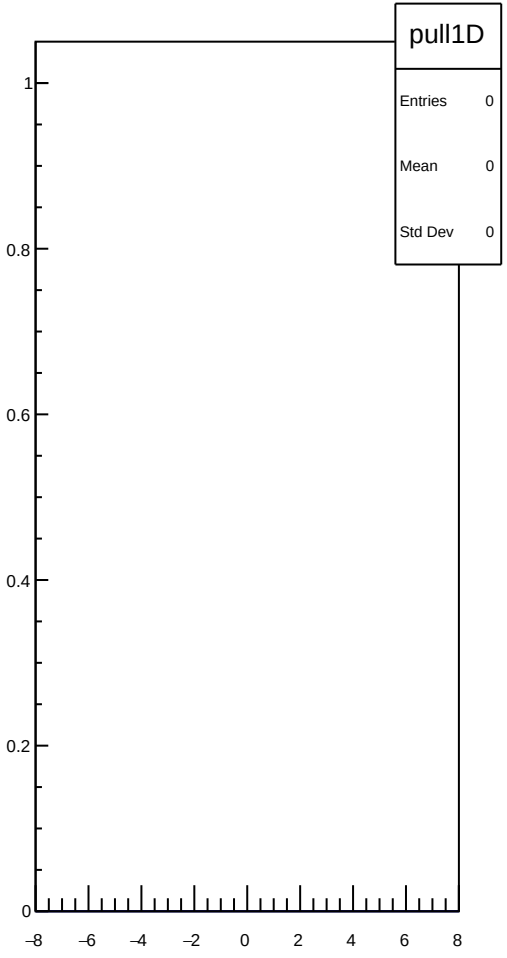
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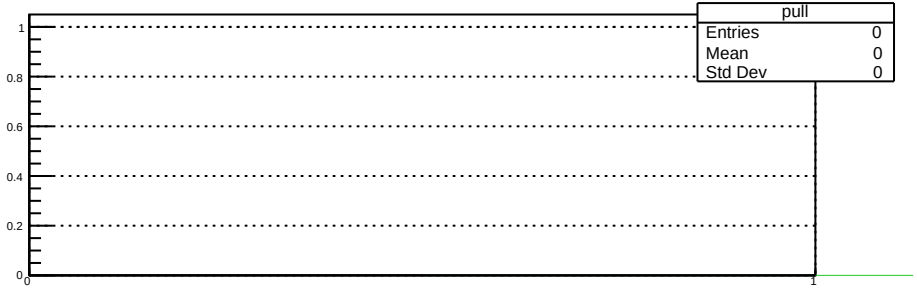
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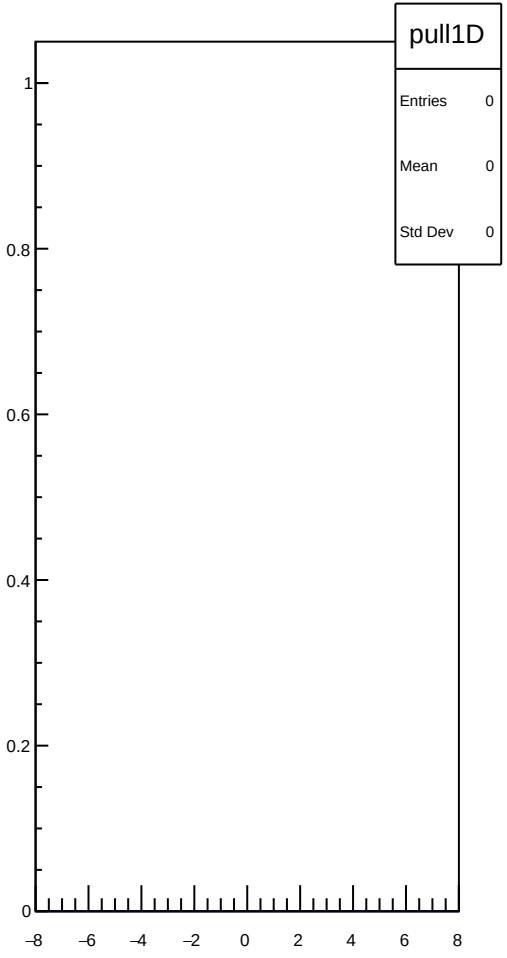
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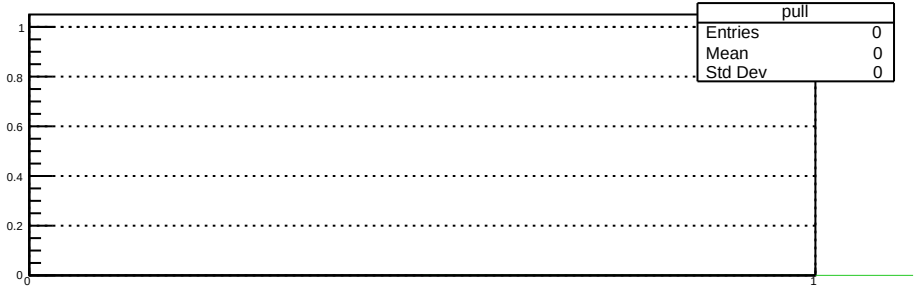
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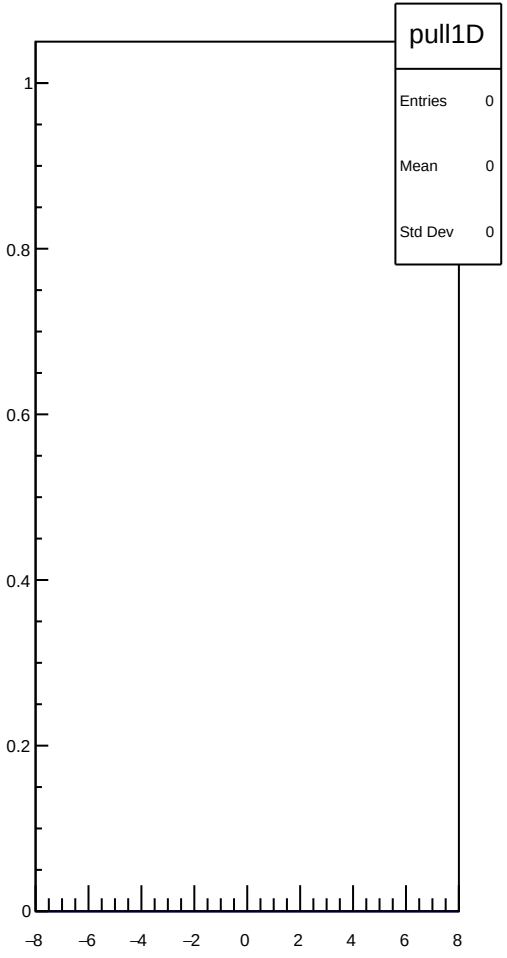
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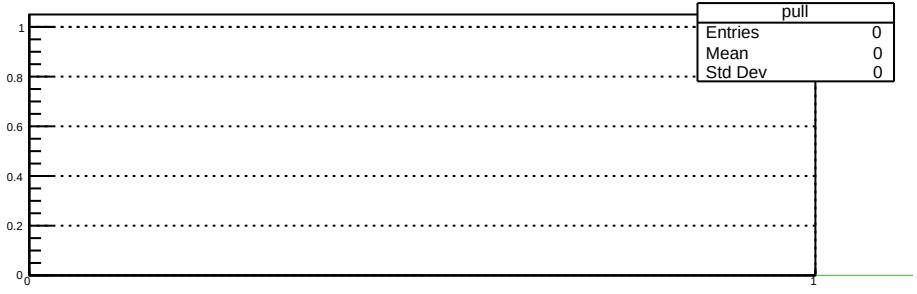
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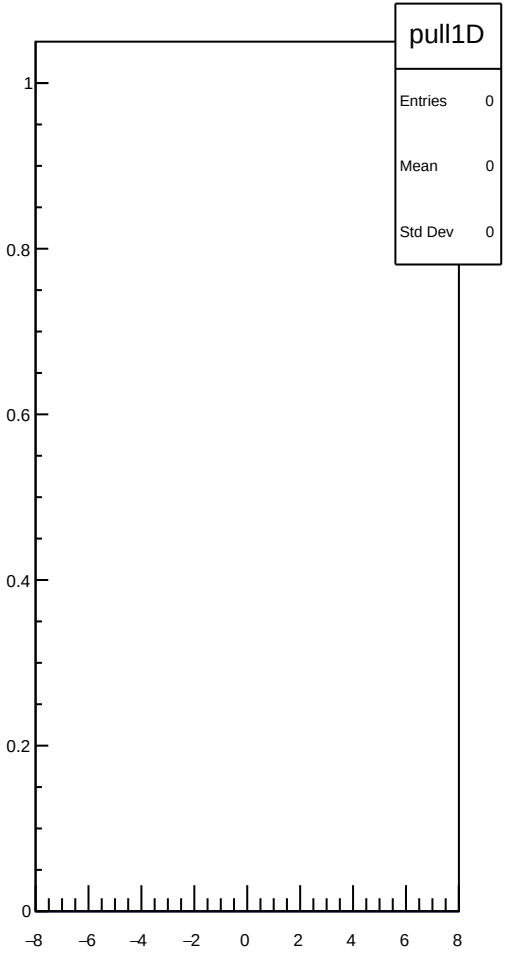
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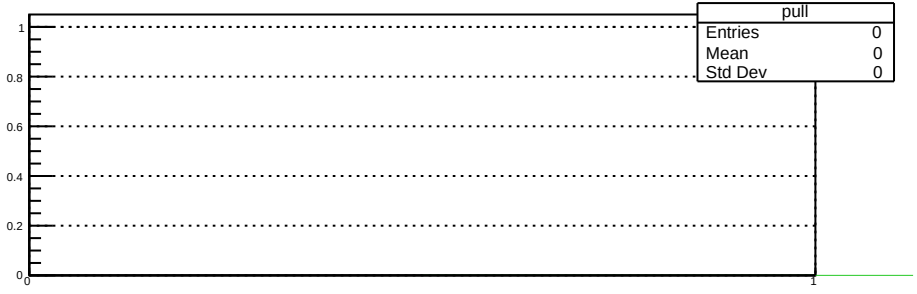
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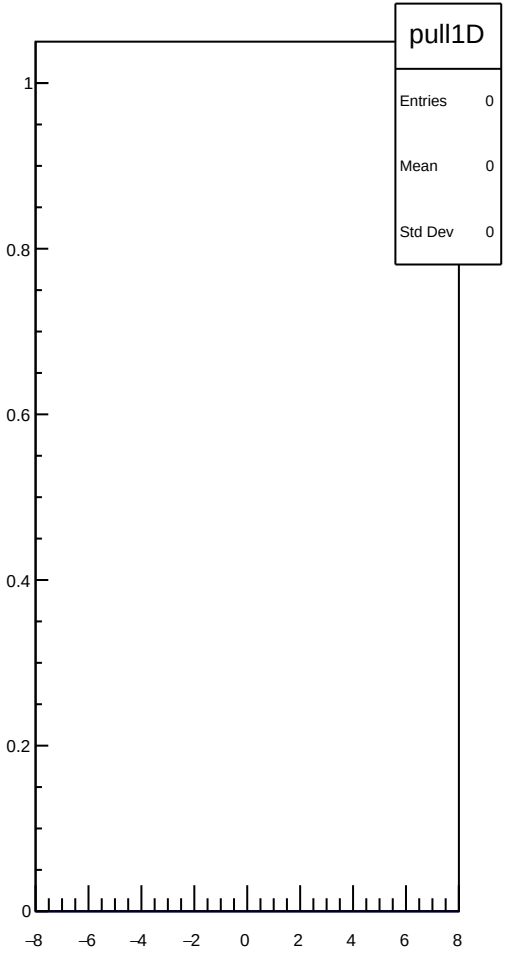
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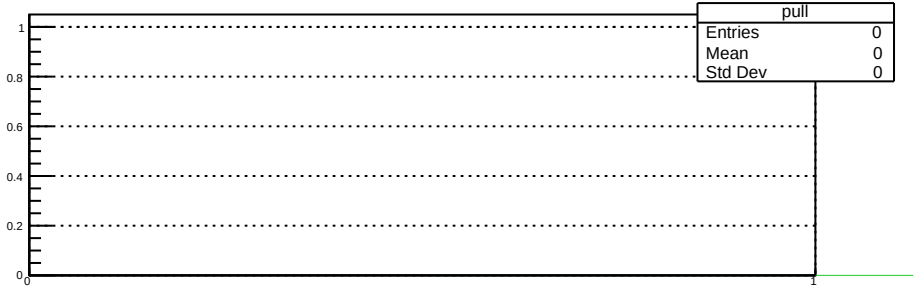
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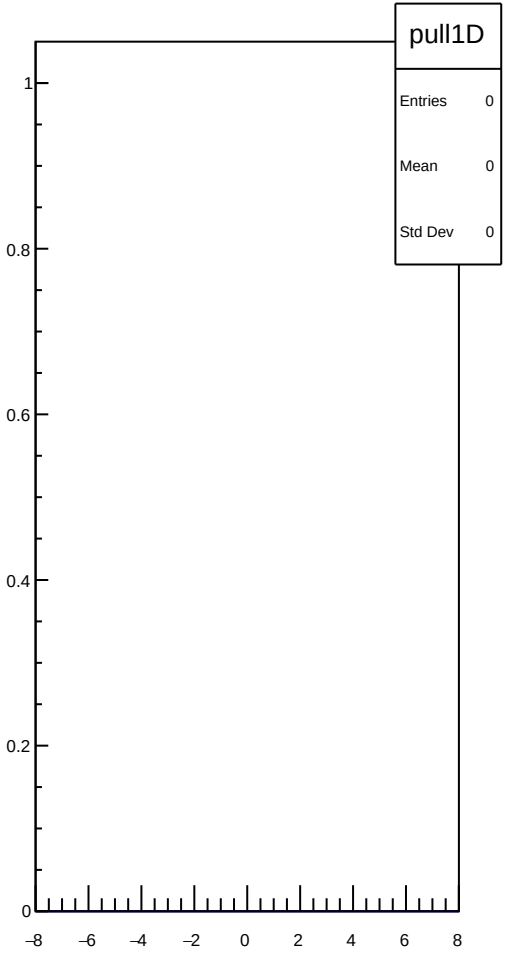
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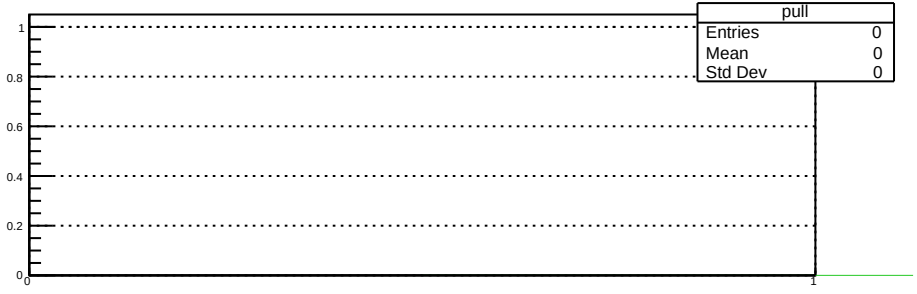
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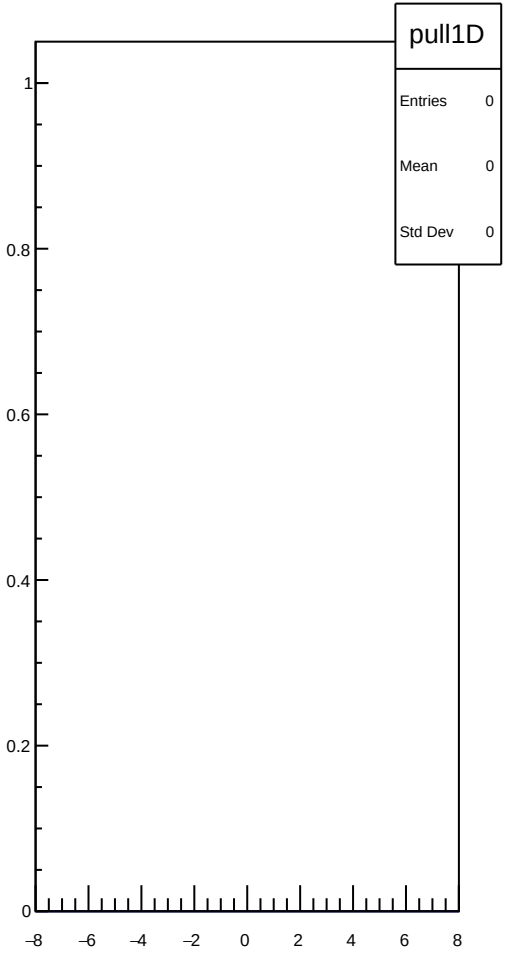
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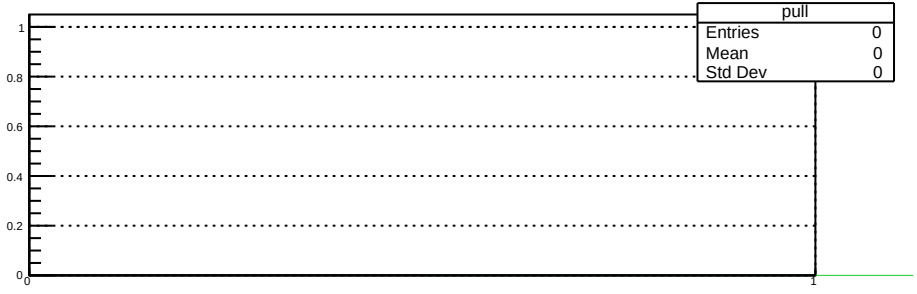
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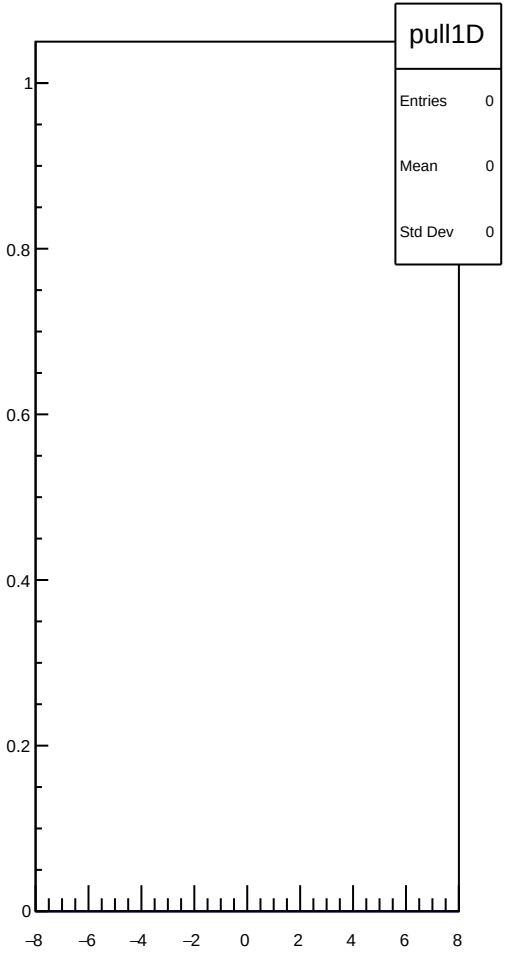
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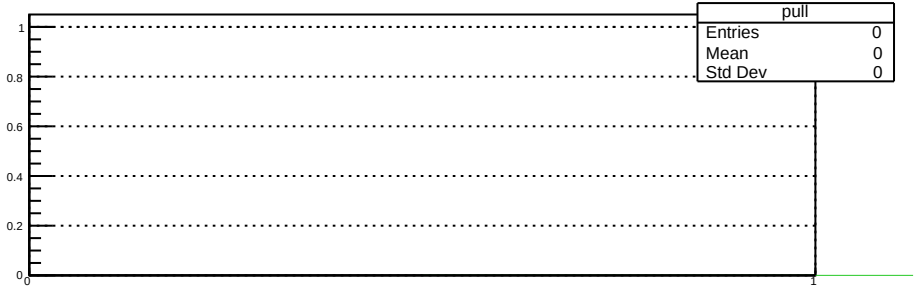
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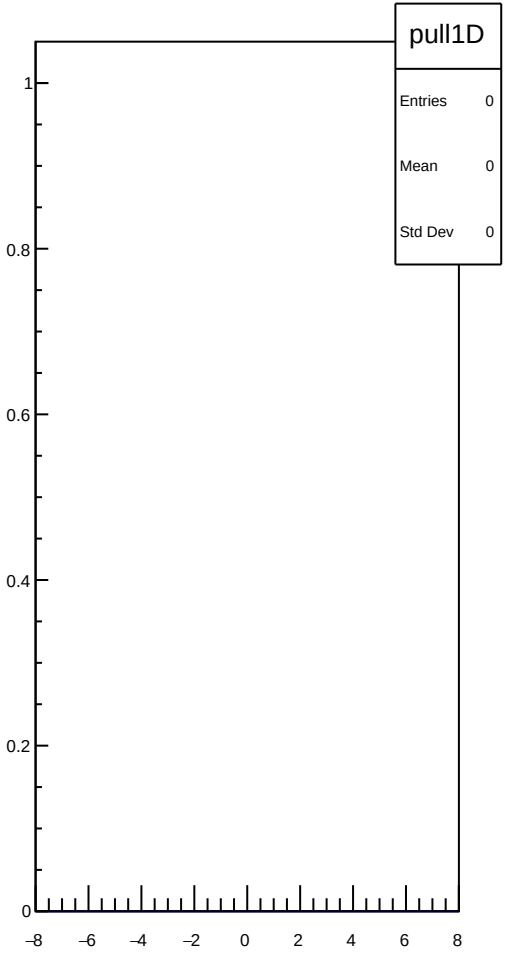
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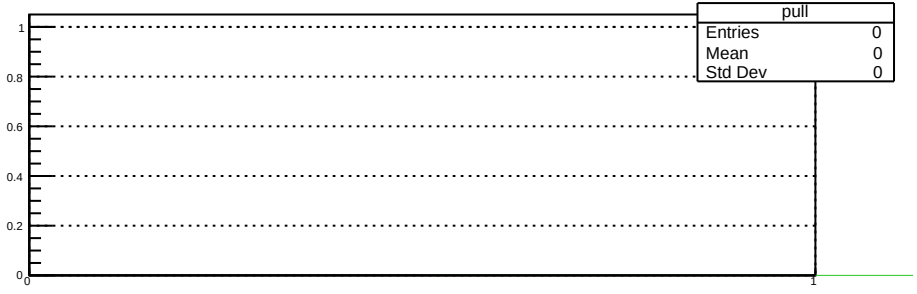
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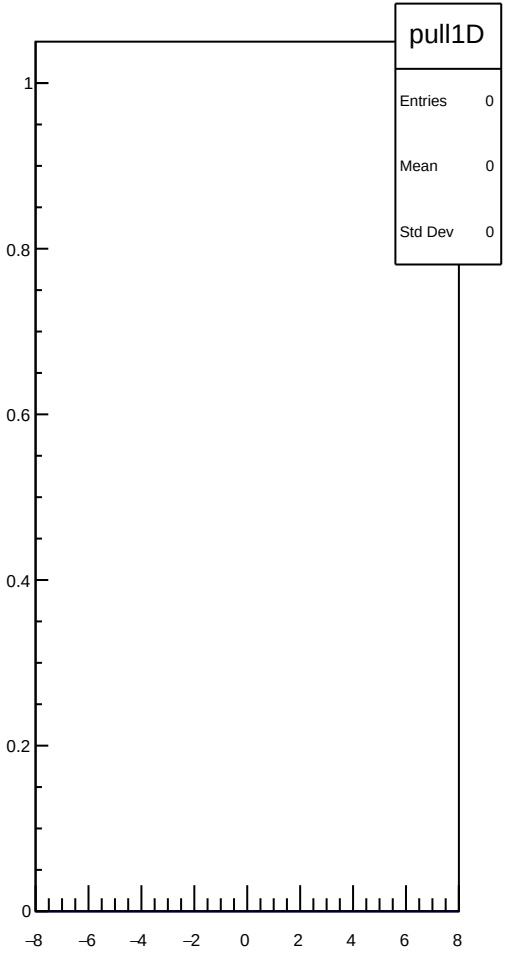
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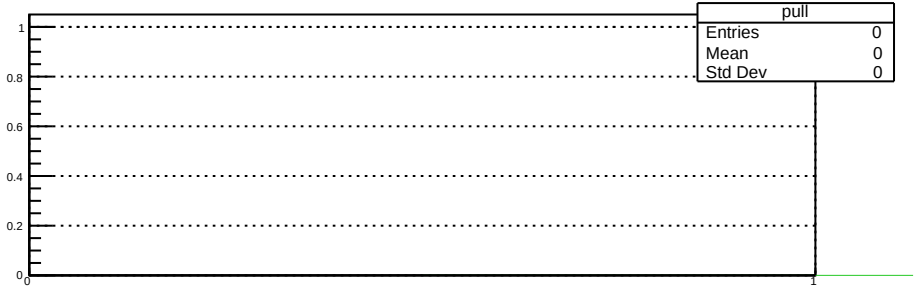
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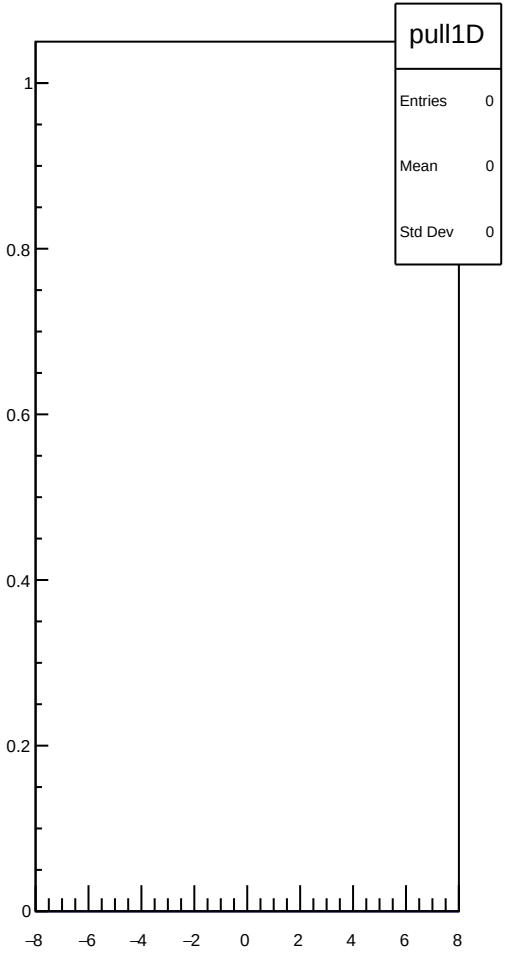
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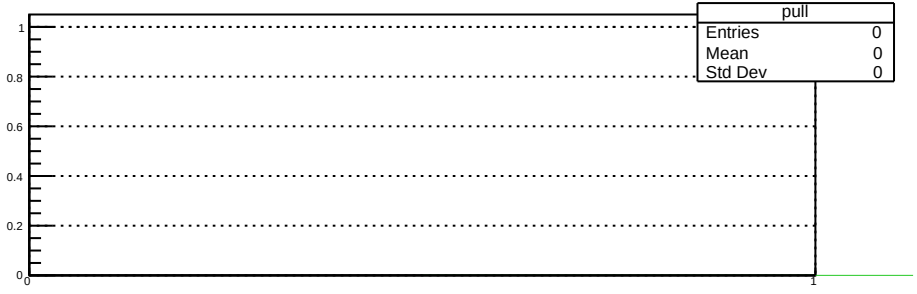
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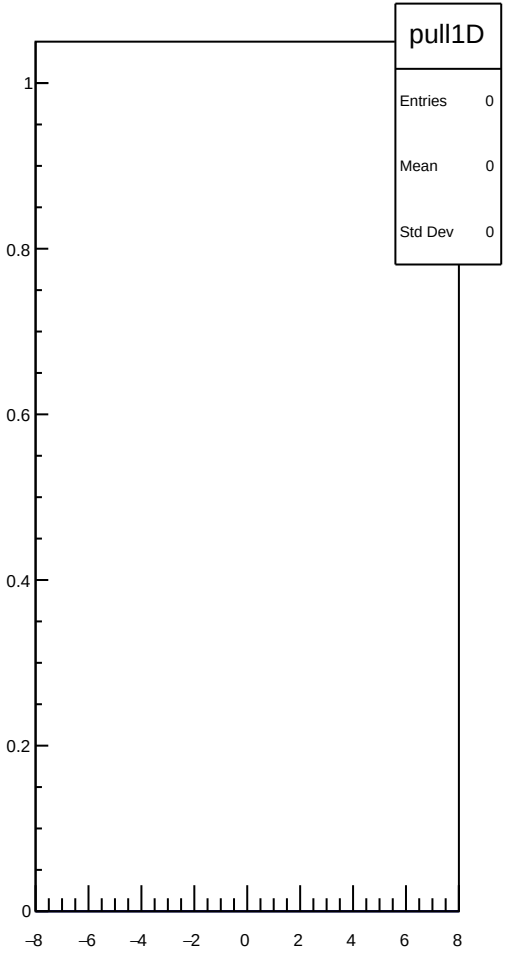
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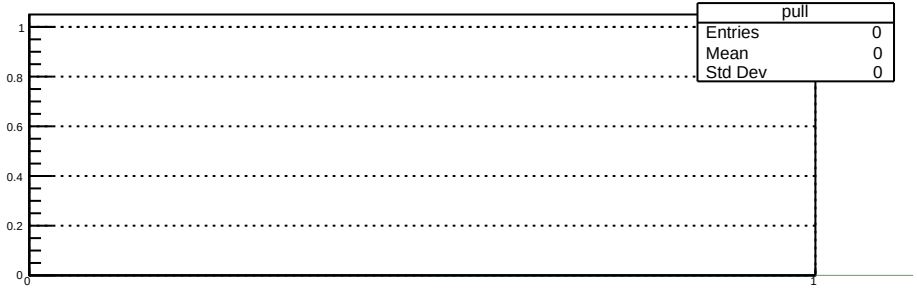
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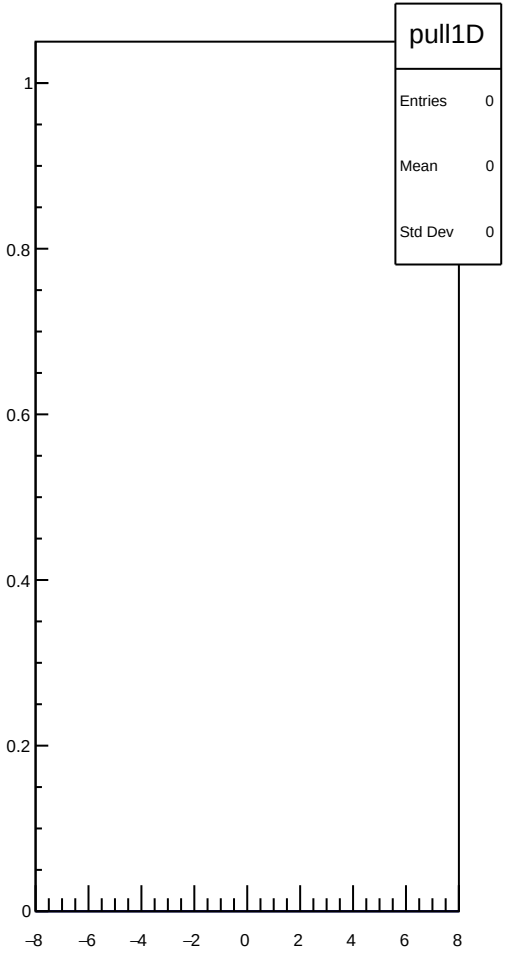
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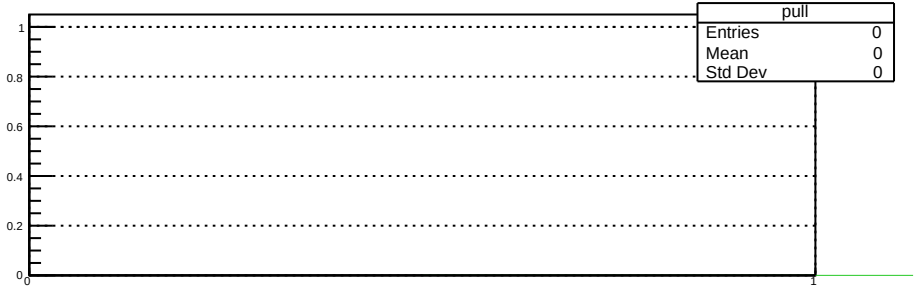
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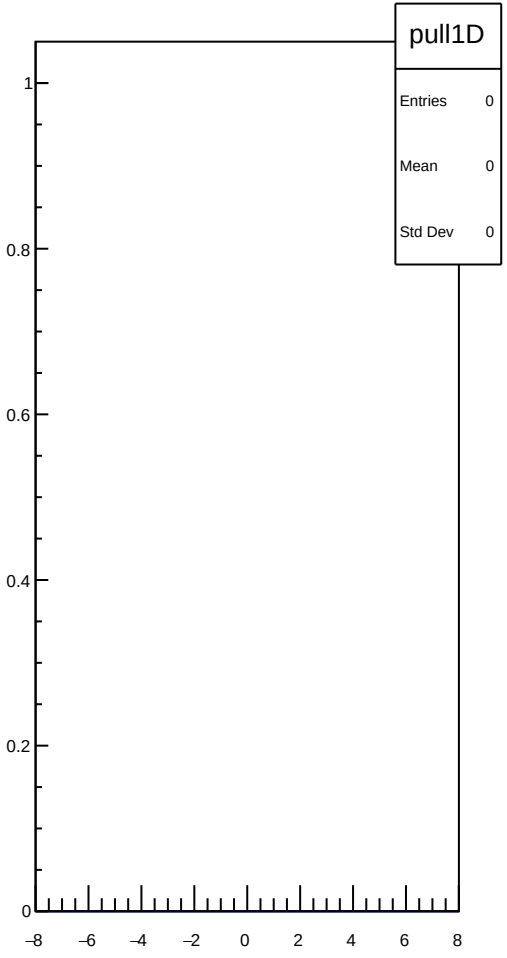
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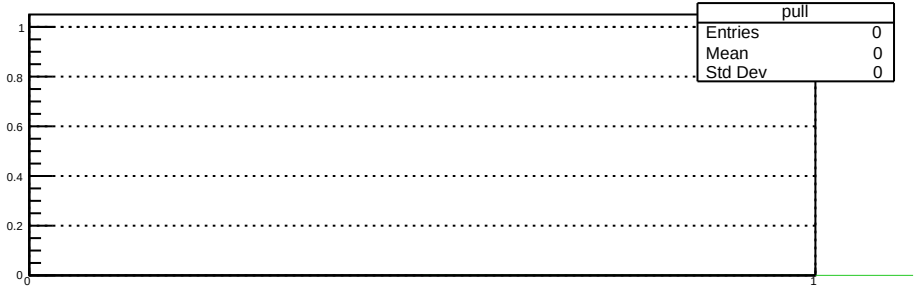
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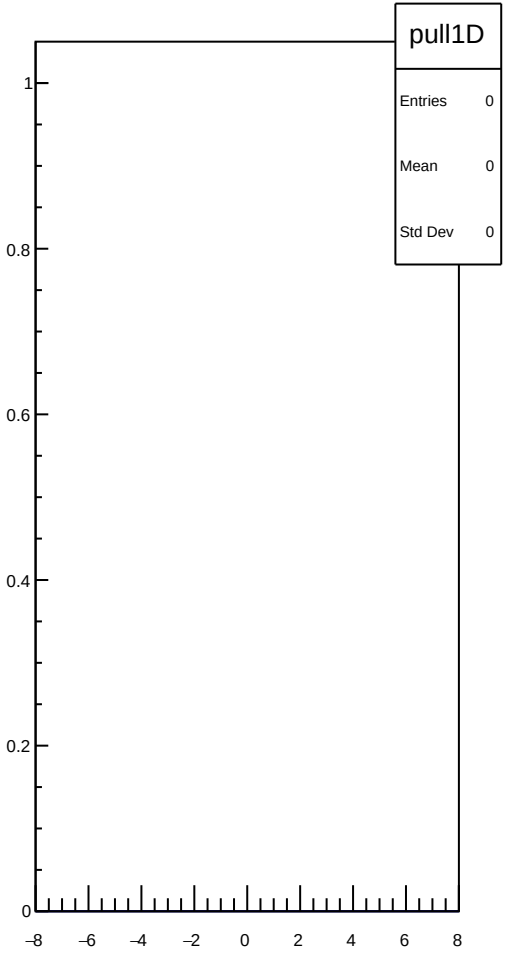
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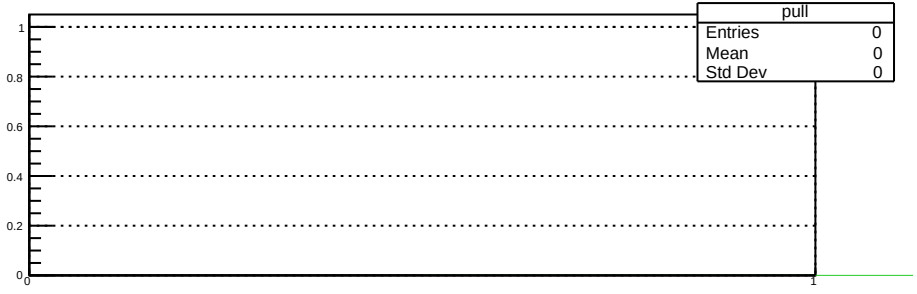
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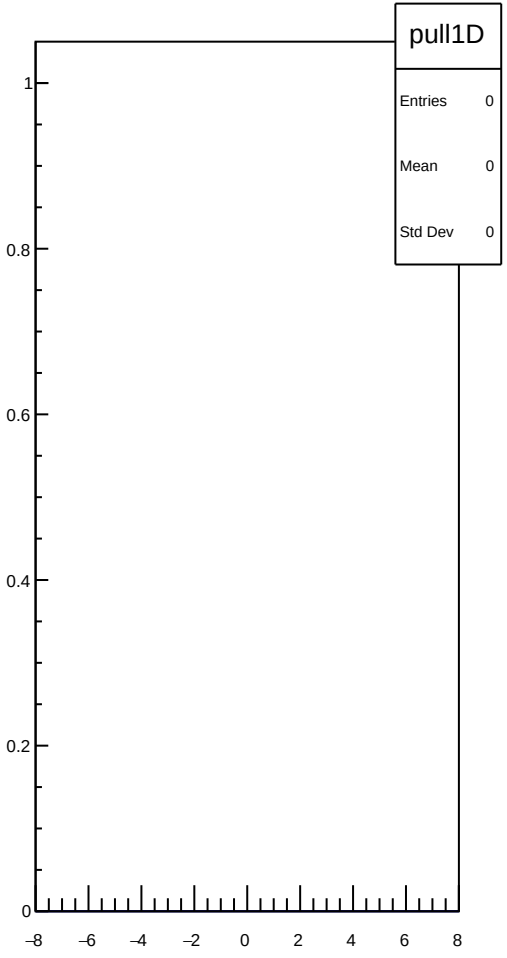
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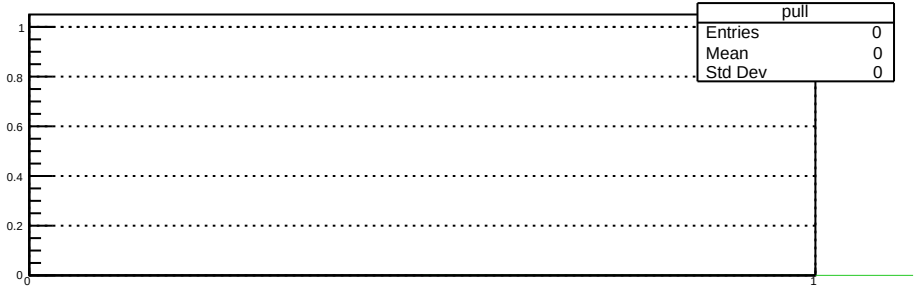
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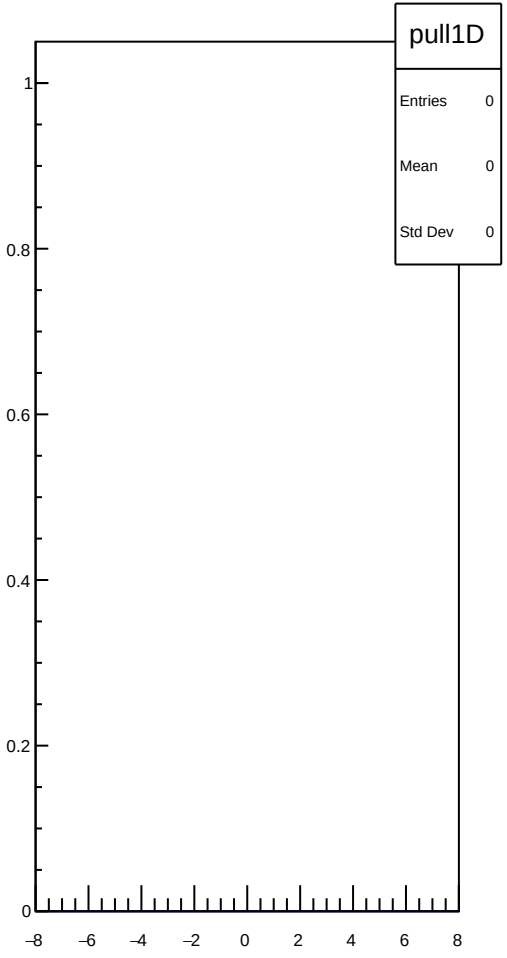
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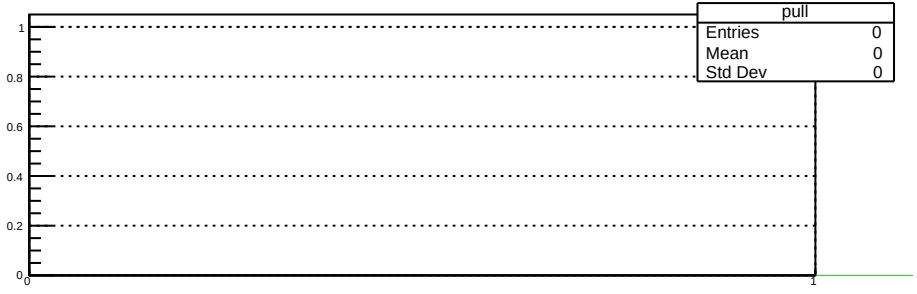
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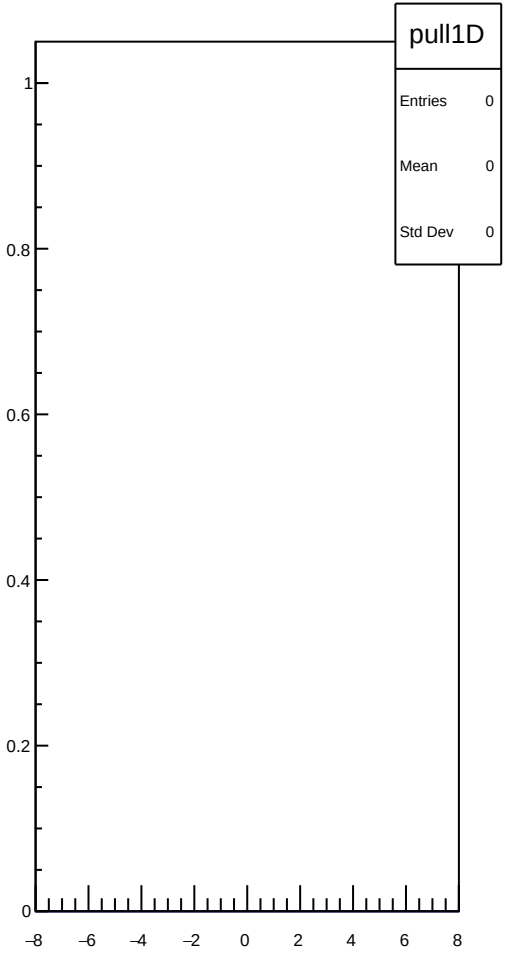
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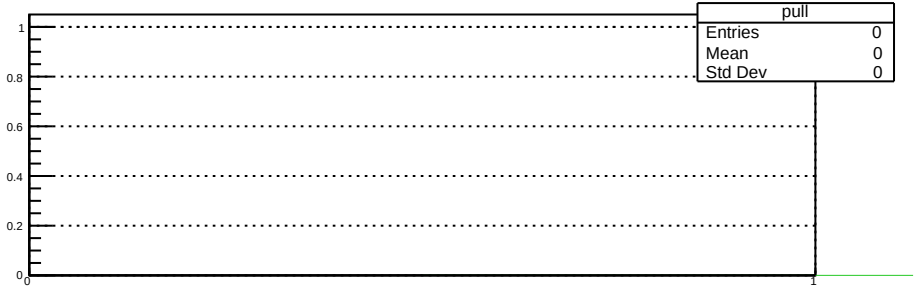
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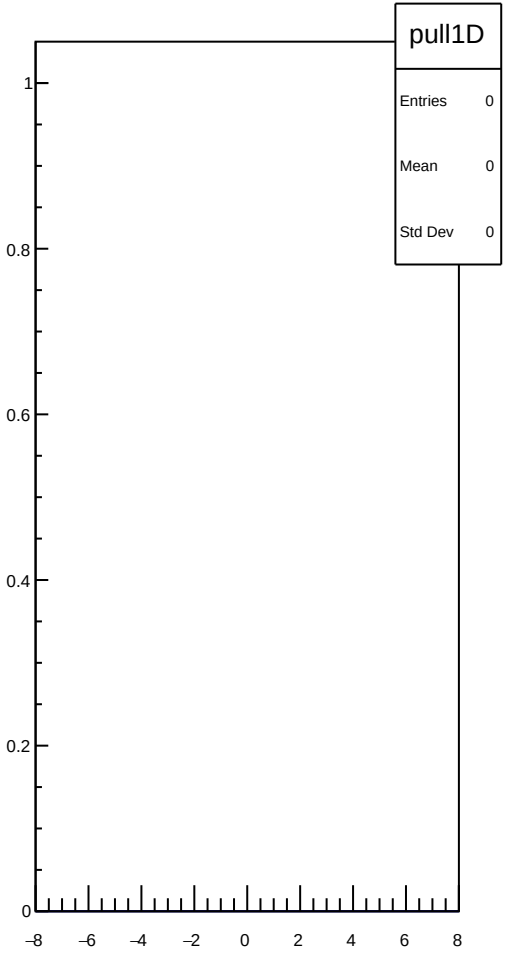
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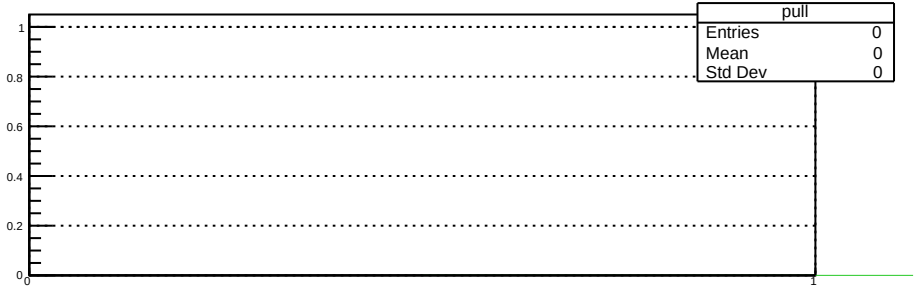
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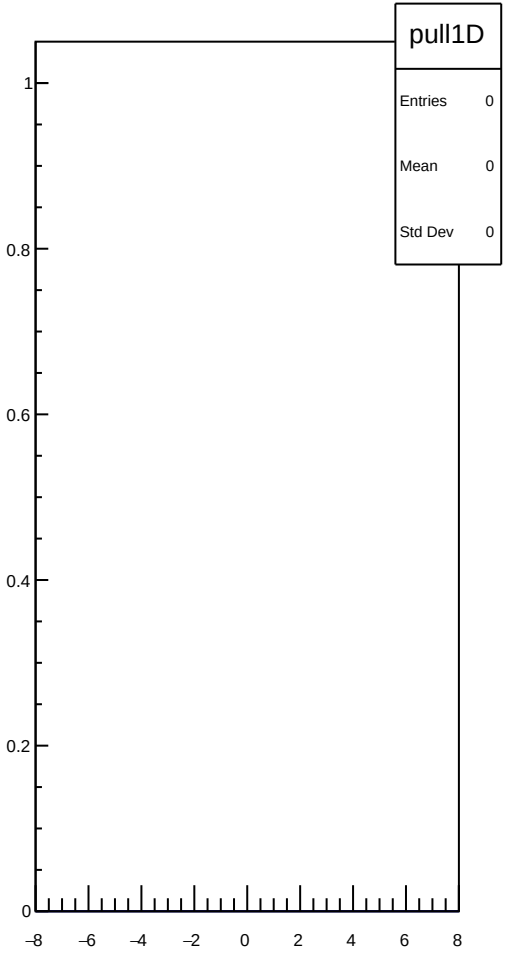
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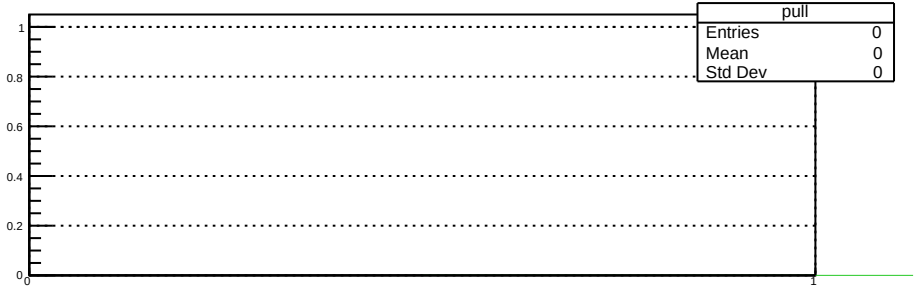
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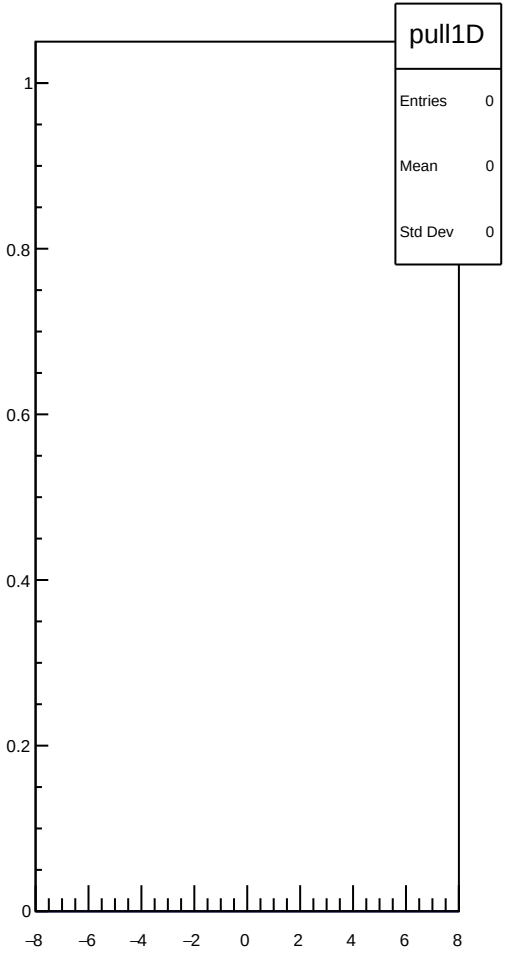
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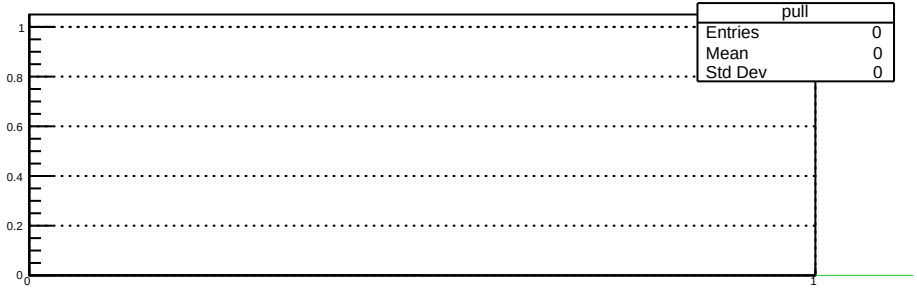
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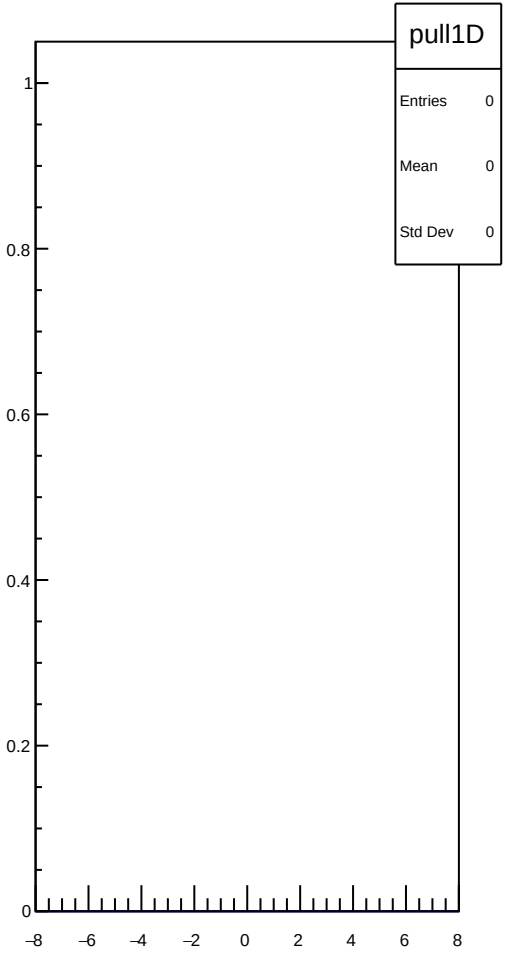
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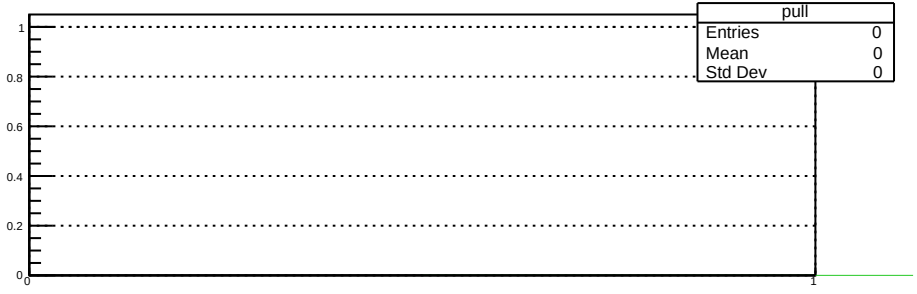
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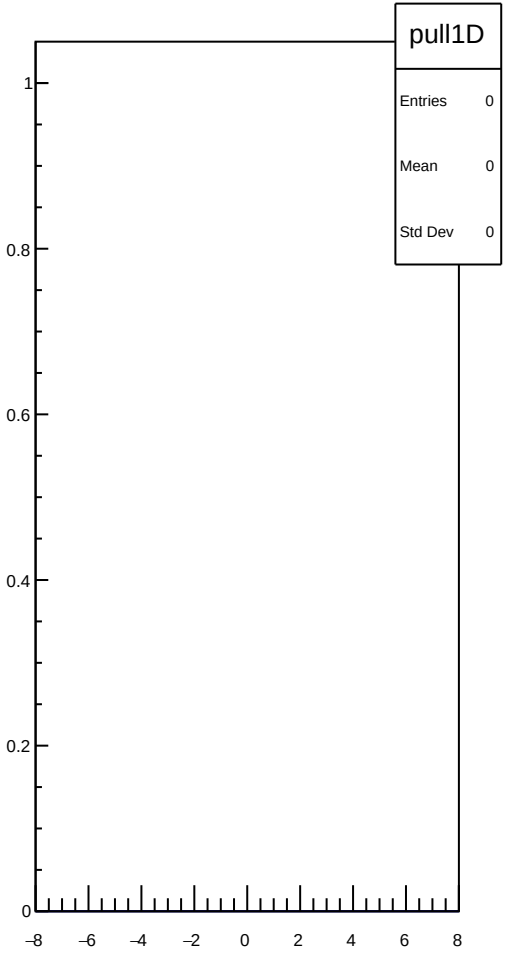
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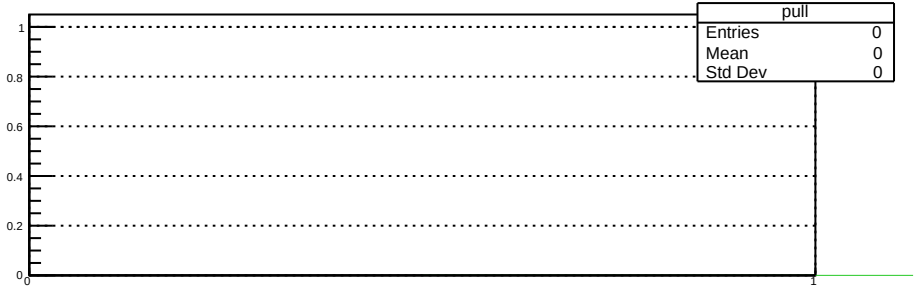
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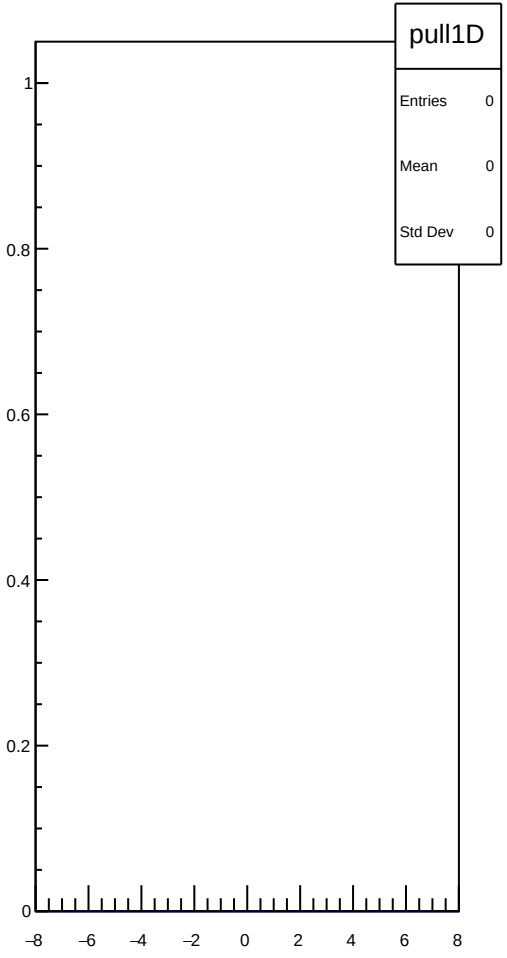
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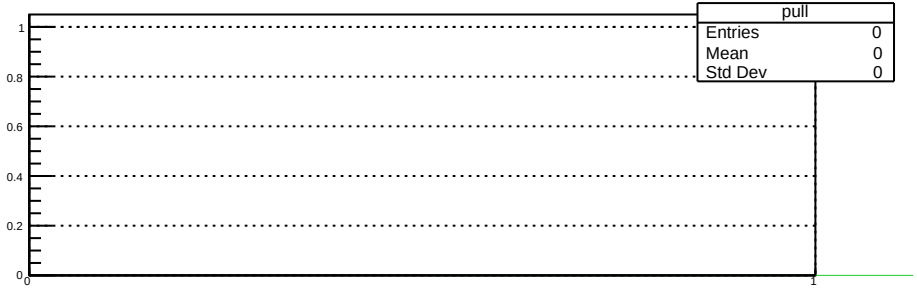
0.2
0
–8
–6
–4
–2
0
2
4
6
8


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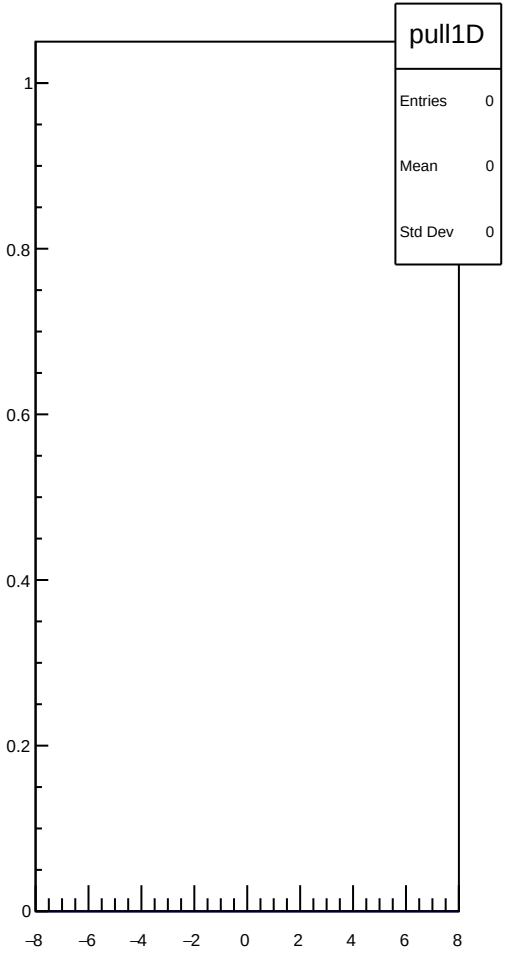
0.6
0.4
0.2
0
0
1


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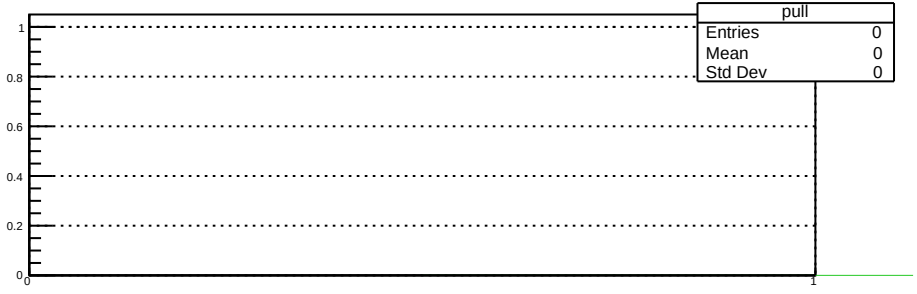
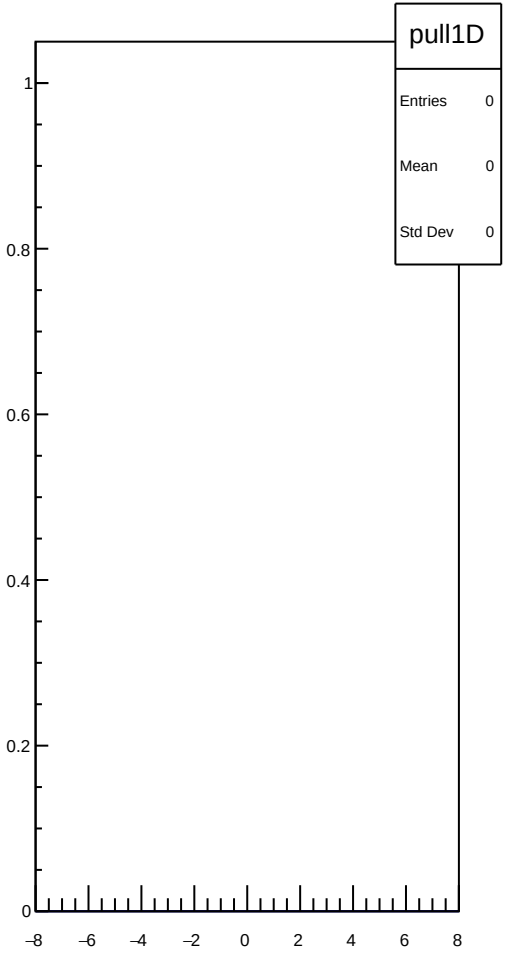
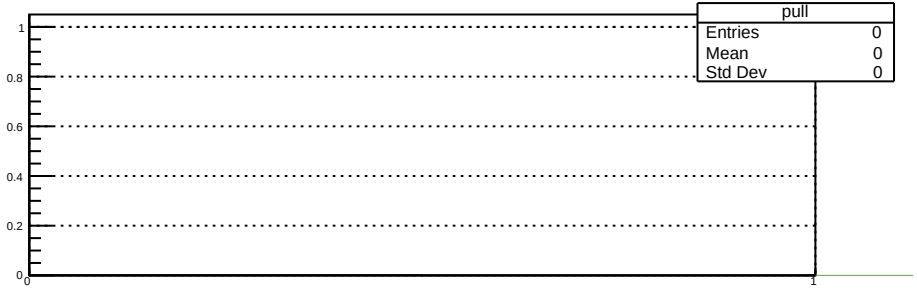
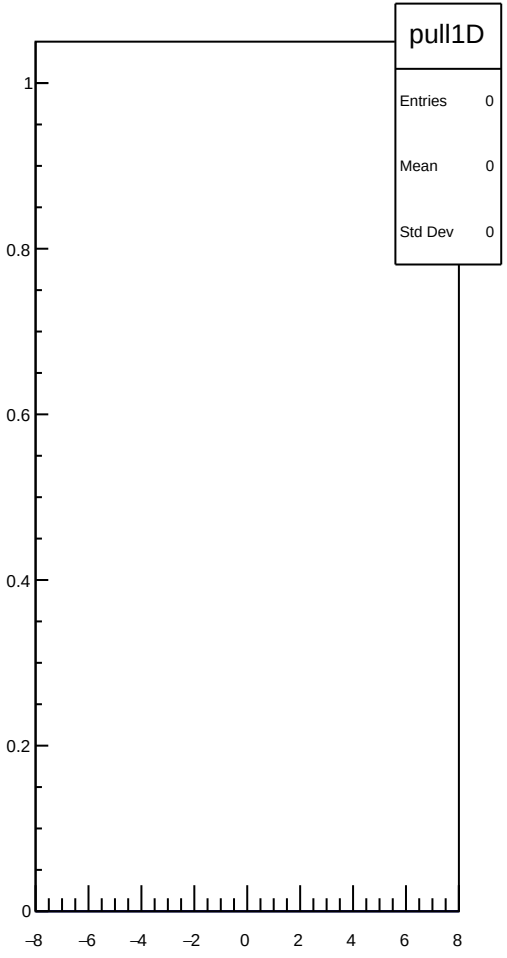
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


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


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


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


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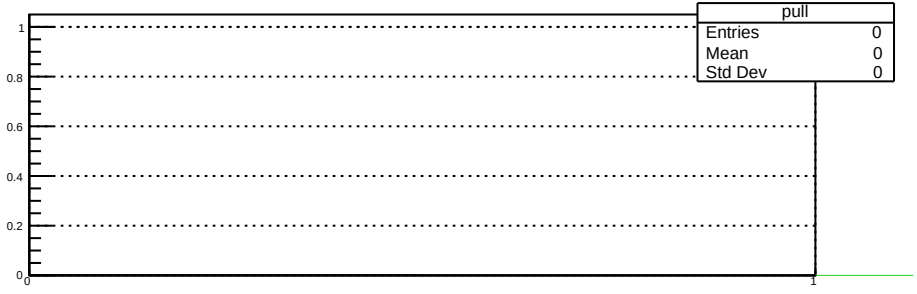
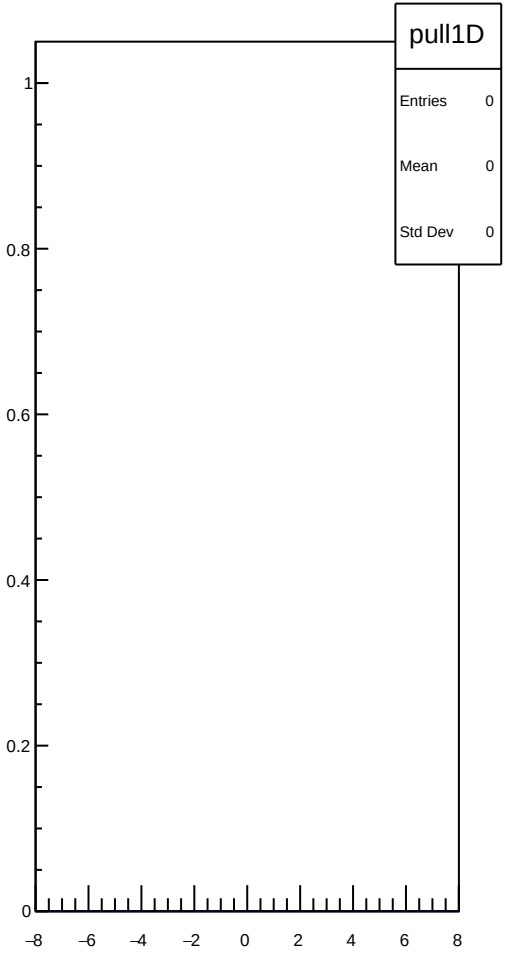
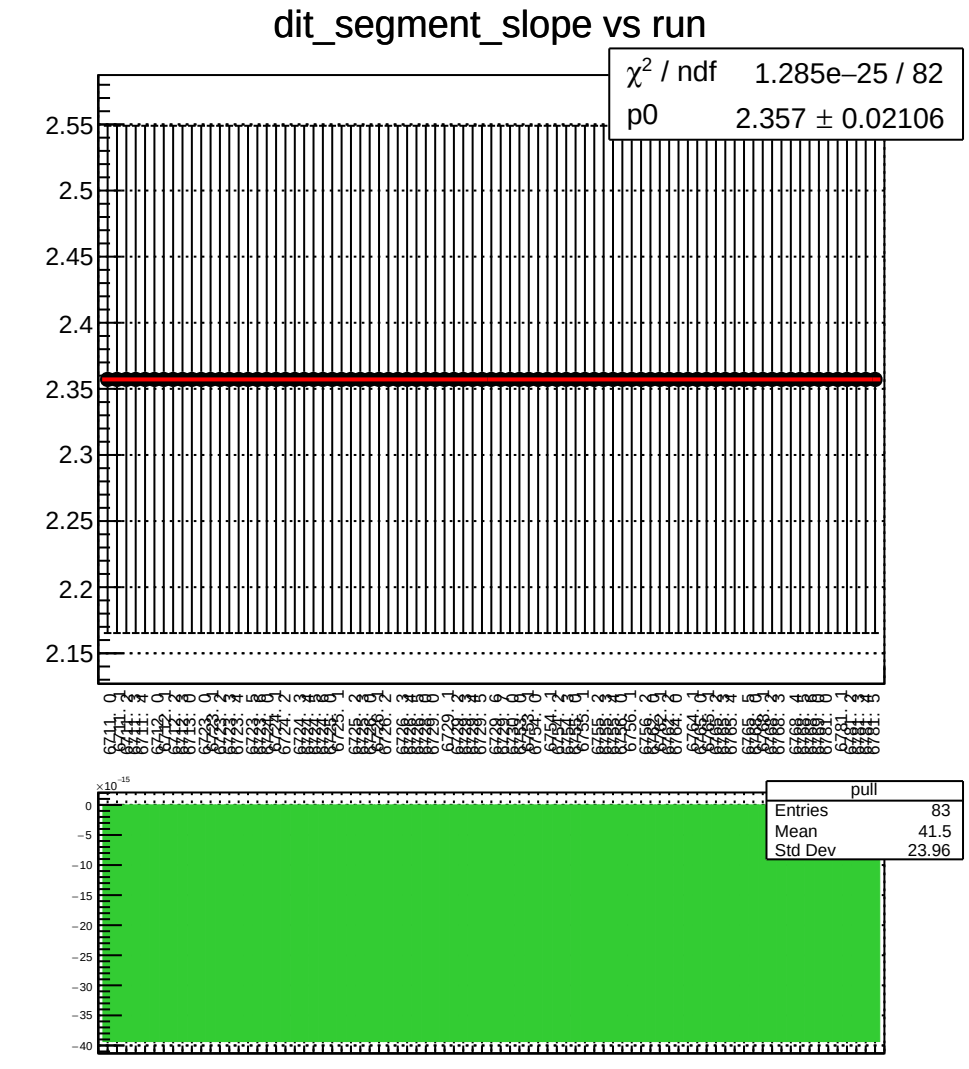
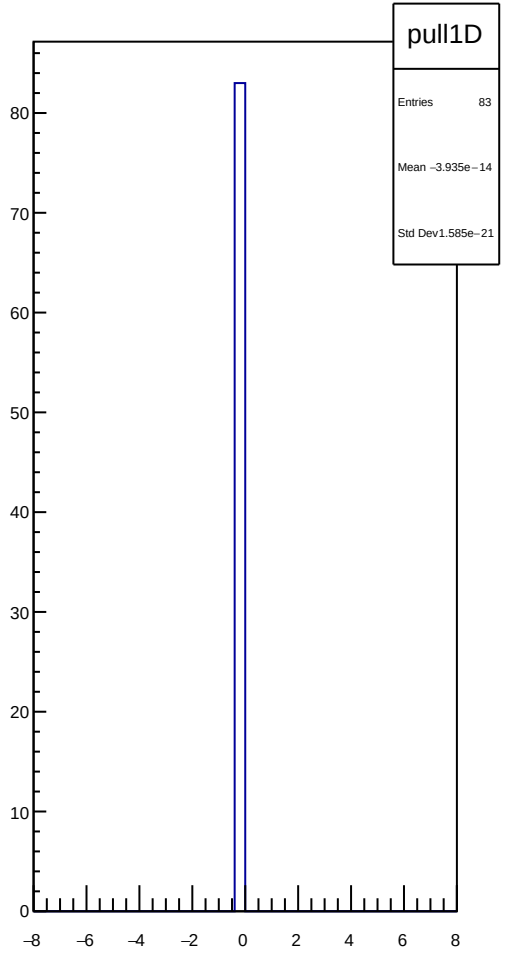
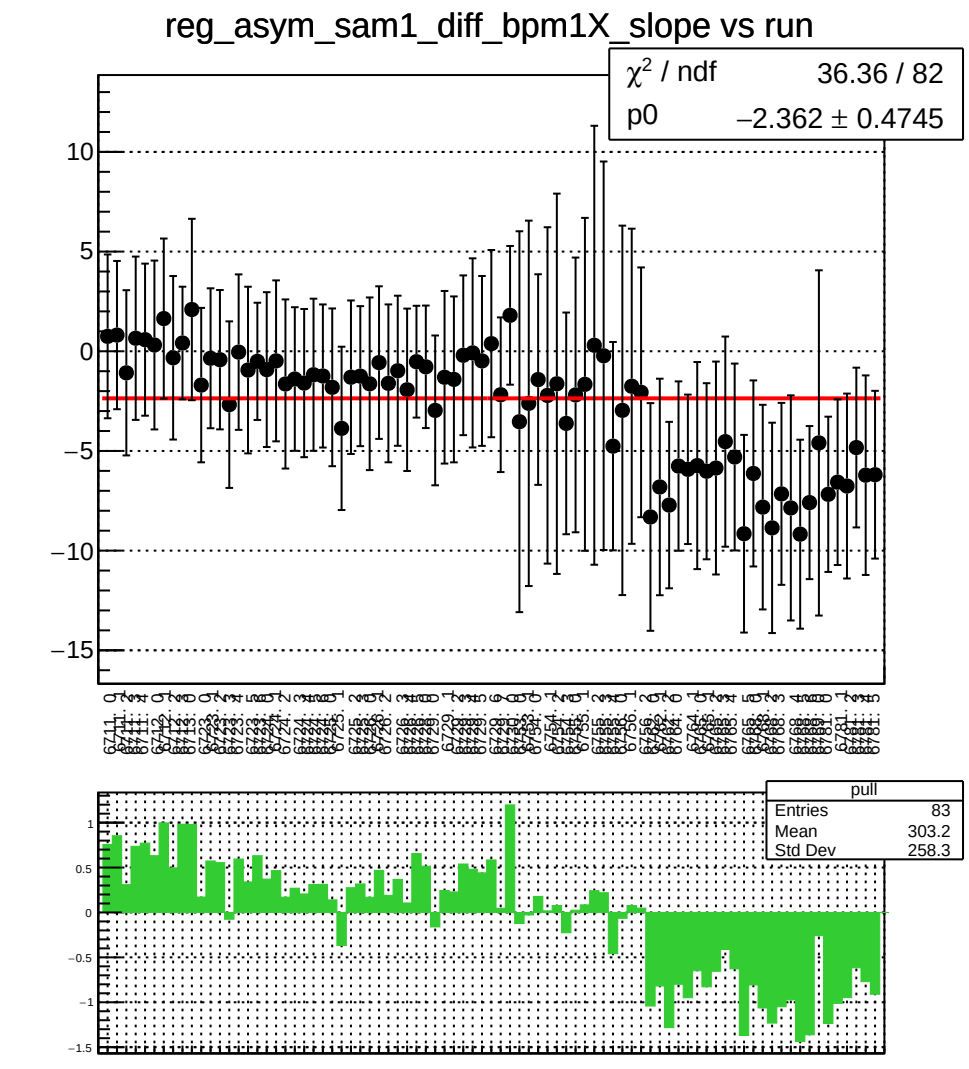
2
4
6
8

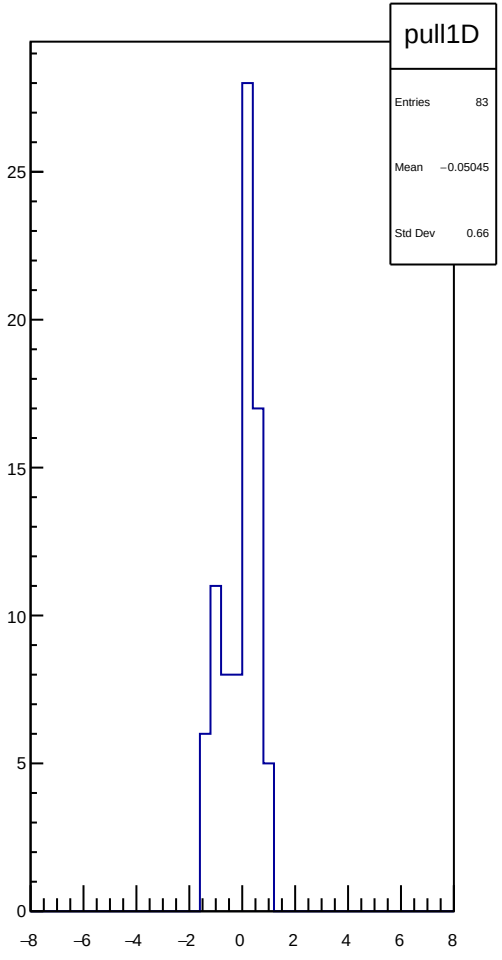

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

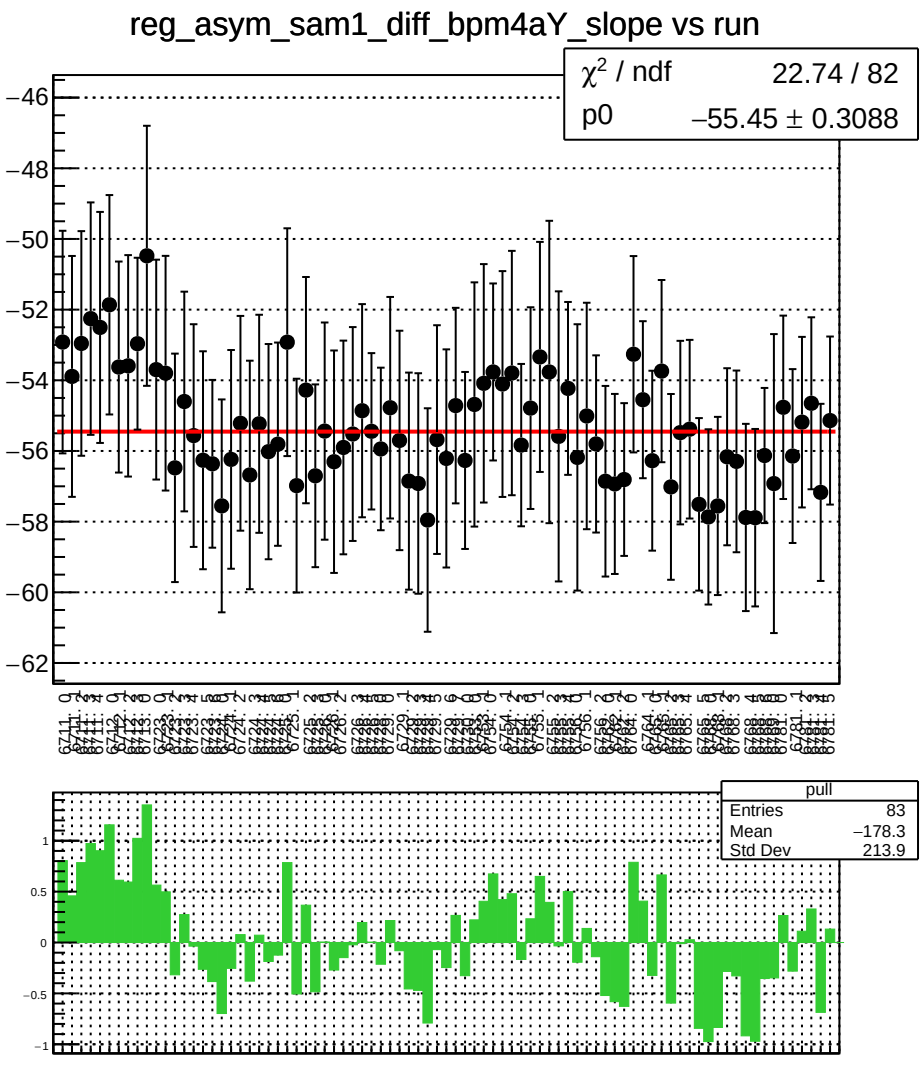

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

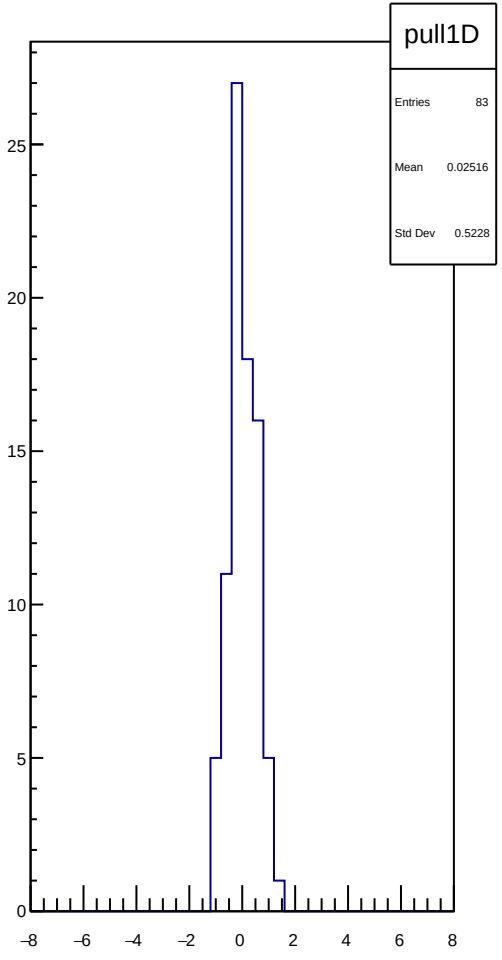

dit_segment_slope vs run
χ² / ndf 1.285e−25 / 82
p0 2.357 ± 0.02106
pull
Entries 83
Mean 41.5
Std Dev 23.96

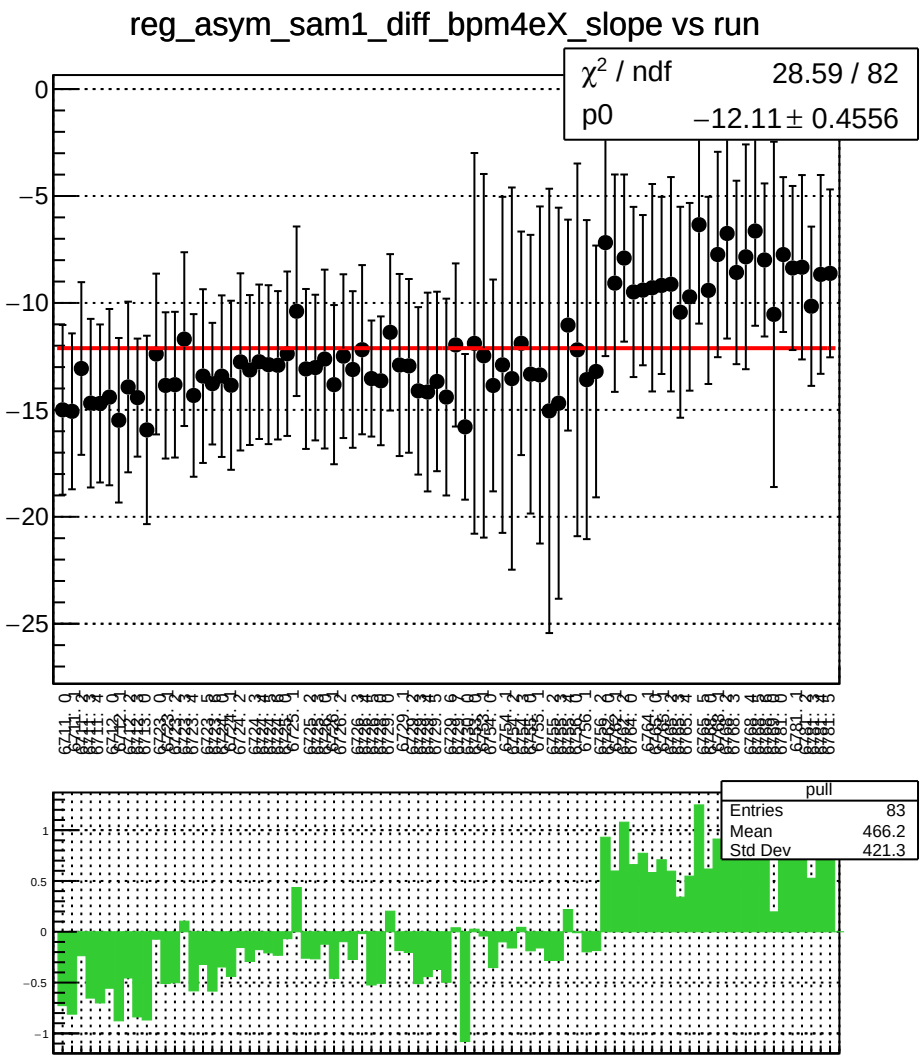

pull1D
Entries 83
Mean −3.935e−14
Std Dev1.585e−21

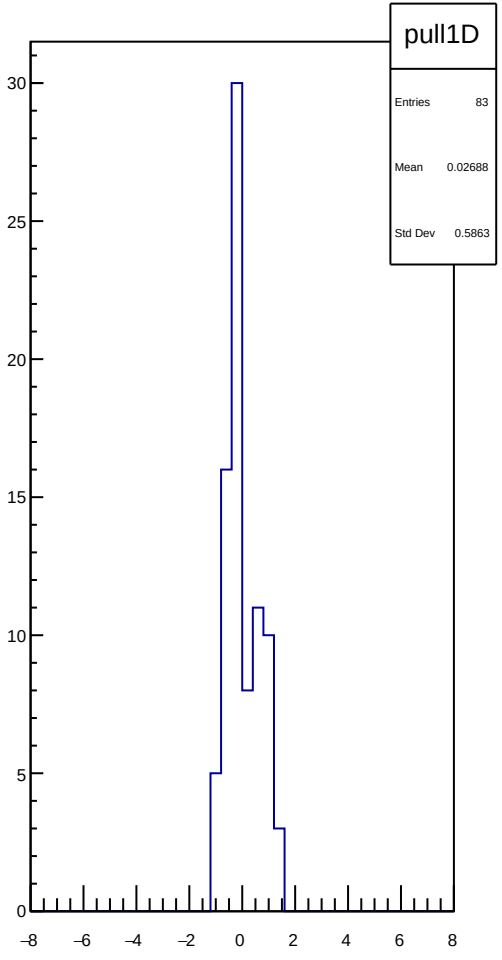

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 36.36 / 82
p0 −2.362 ± 0.4745
pull
Entries 83
Mean 303.2
Std Dev 258.3

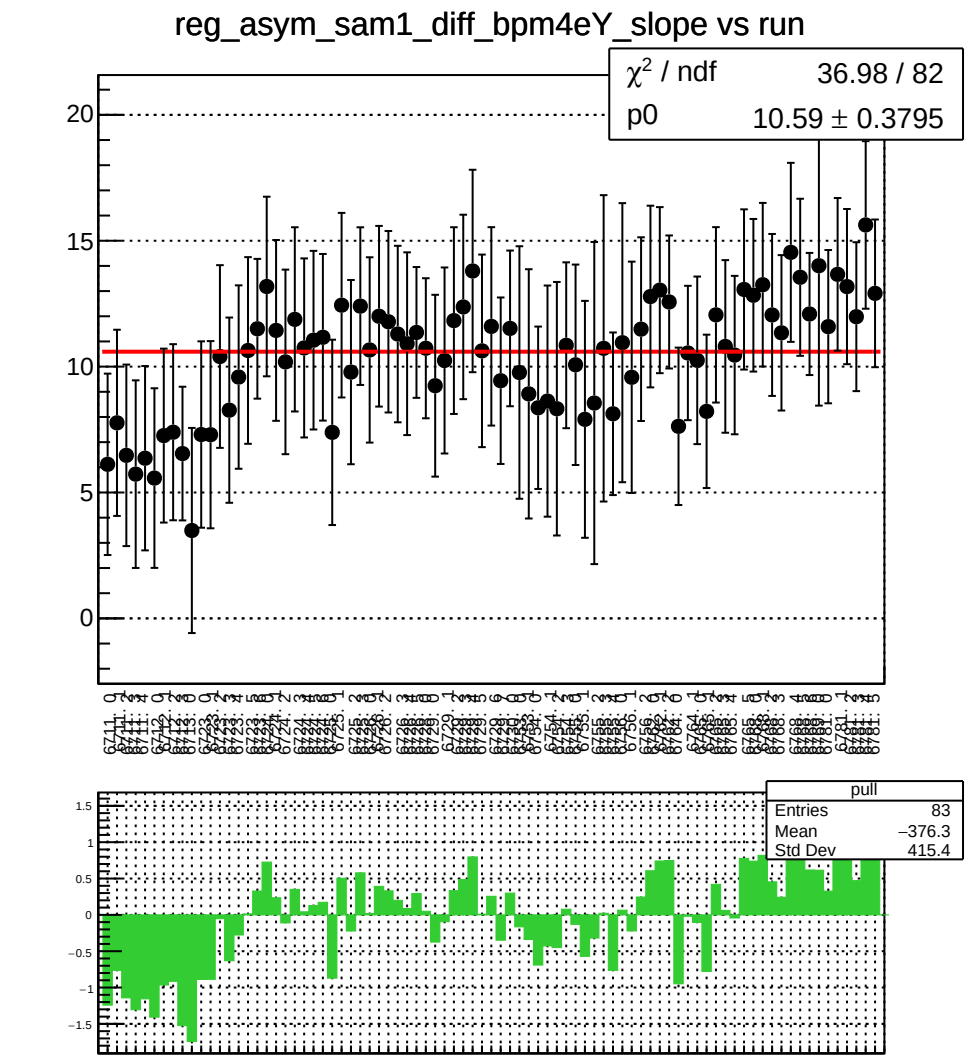

pull1D
Entries 83
Mean −0.05045
Std Dev 0.66

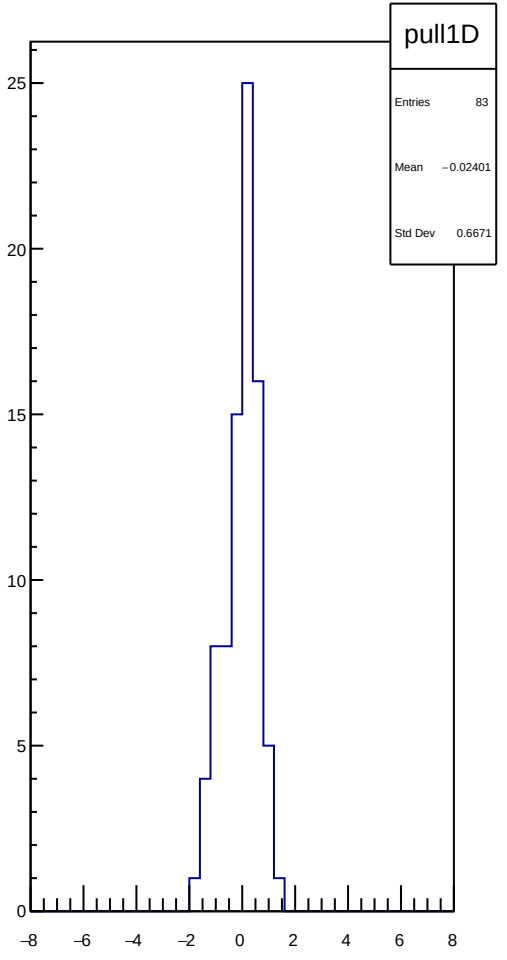

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 22.74 / 82
p0 −55.45 ± 0.3088
pull
Entries 83
Mean −178.3
Std Dev 213.9

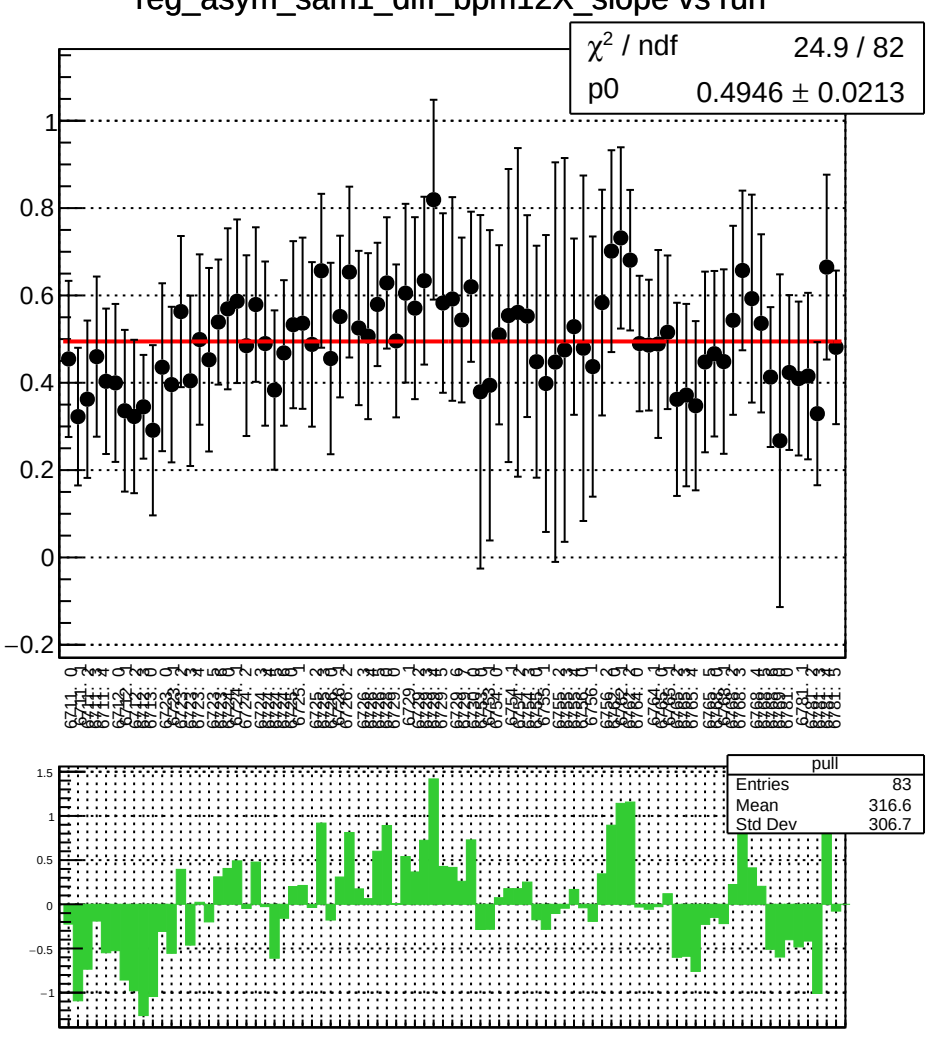

pull1D
Entries 83
Mean 0.02516
Std Dev 0.5228

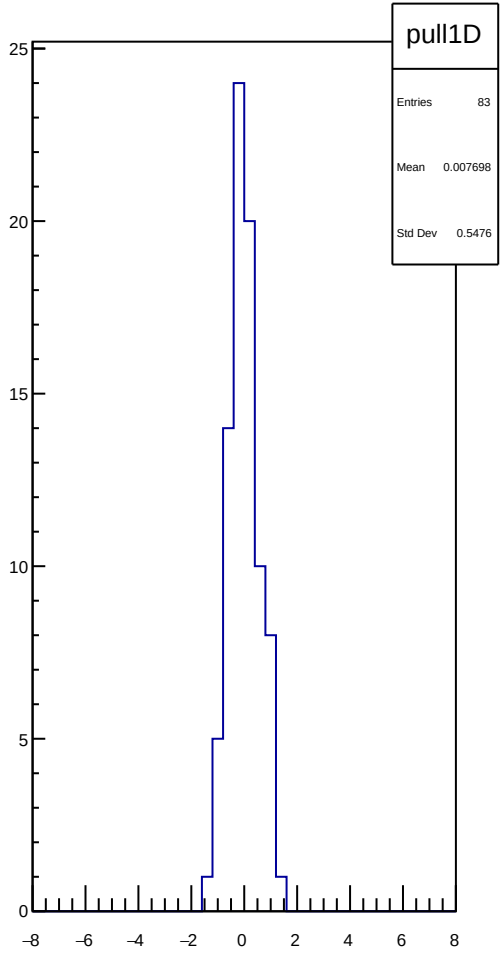

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 28.59 / 82
p0 −12.11 ± 0.4556
pull
Entries 83
Mean 466.2
Std Dev 421.3

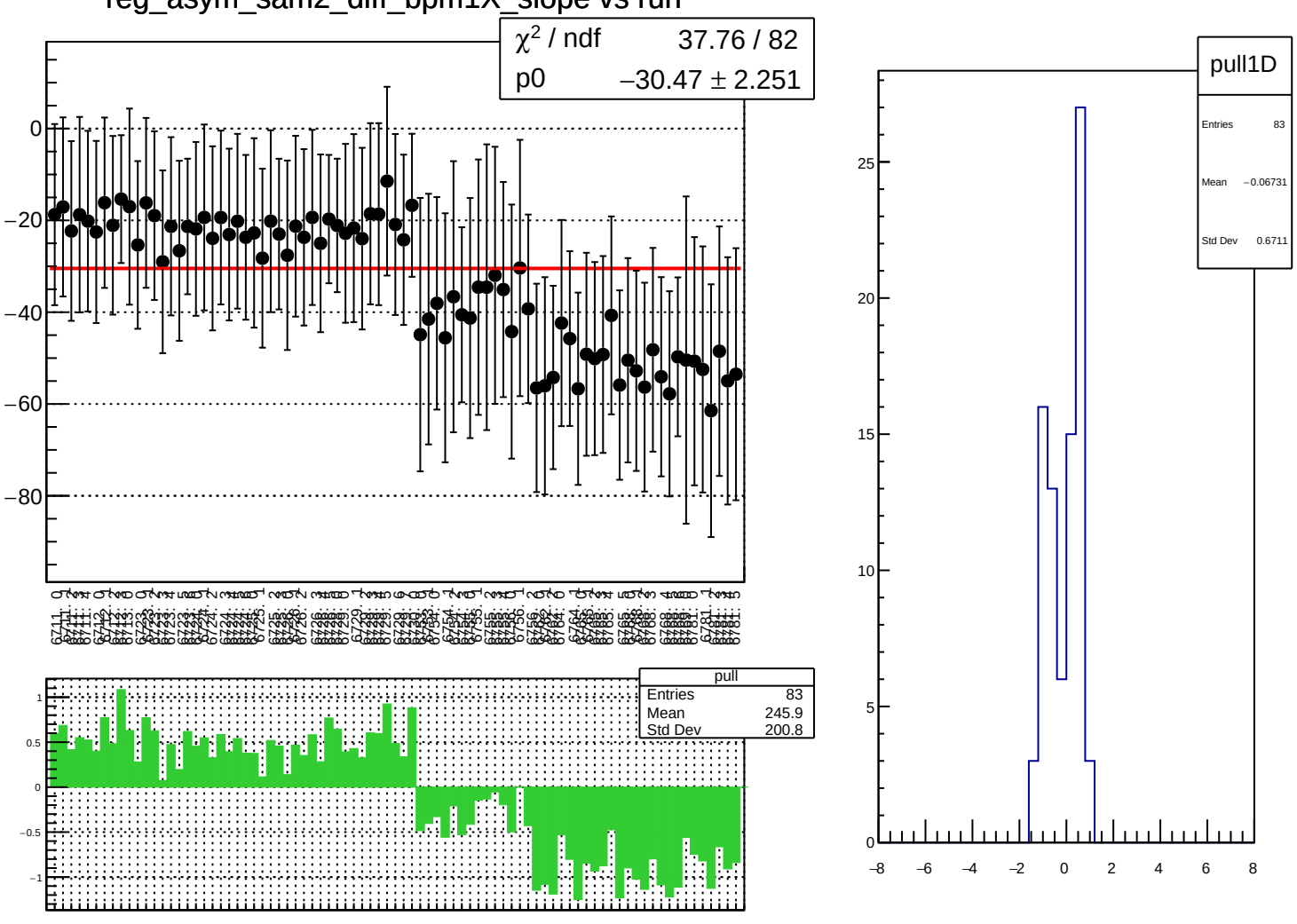

pull1D
Entries 83
Mean 0.02688
Std Dev 0.5863

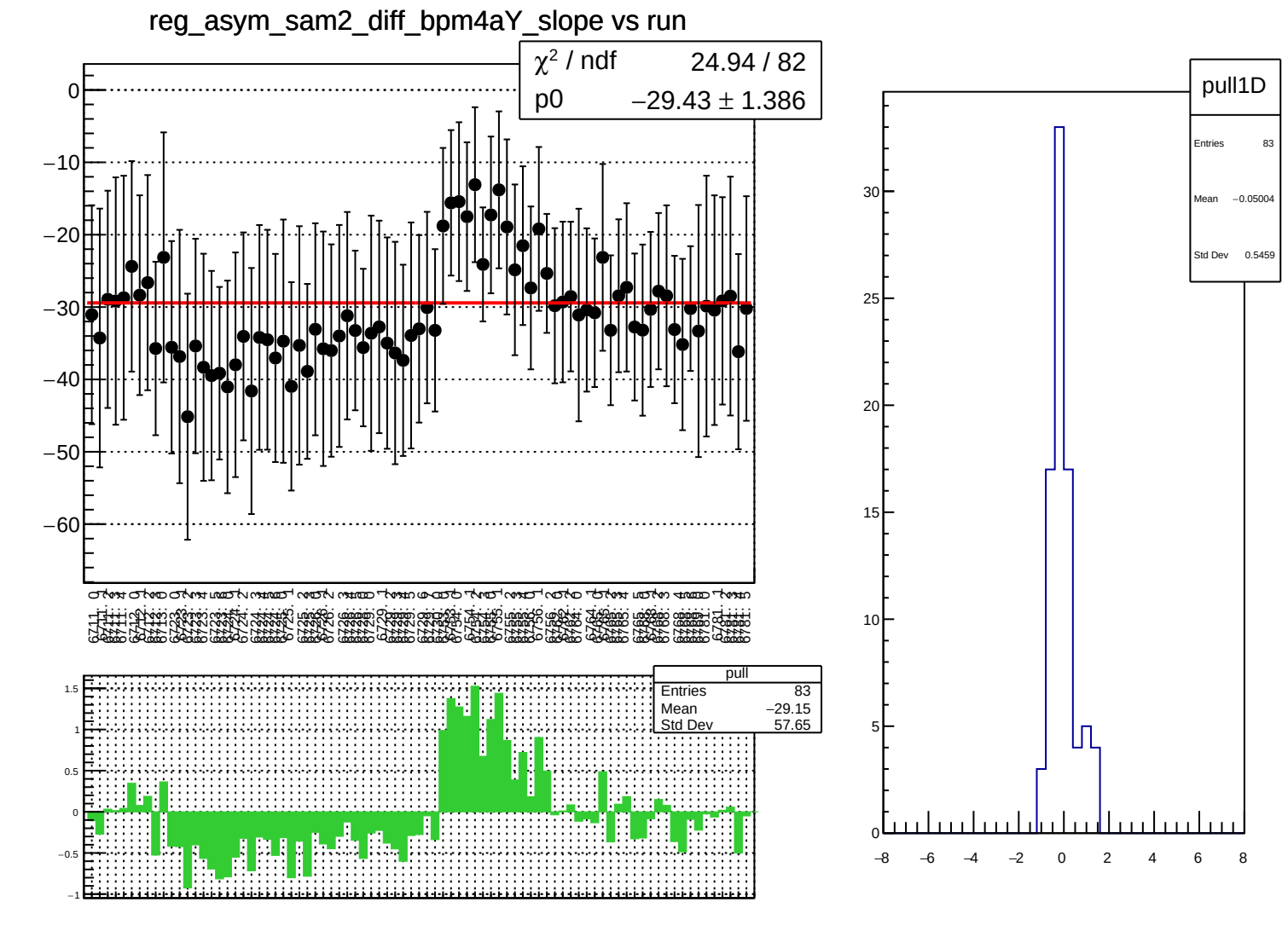

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 36.98 / 82
p0 10.59 ± 0.3795
pull
Entries 83
Mean −376.3
Std Dev 415.4

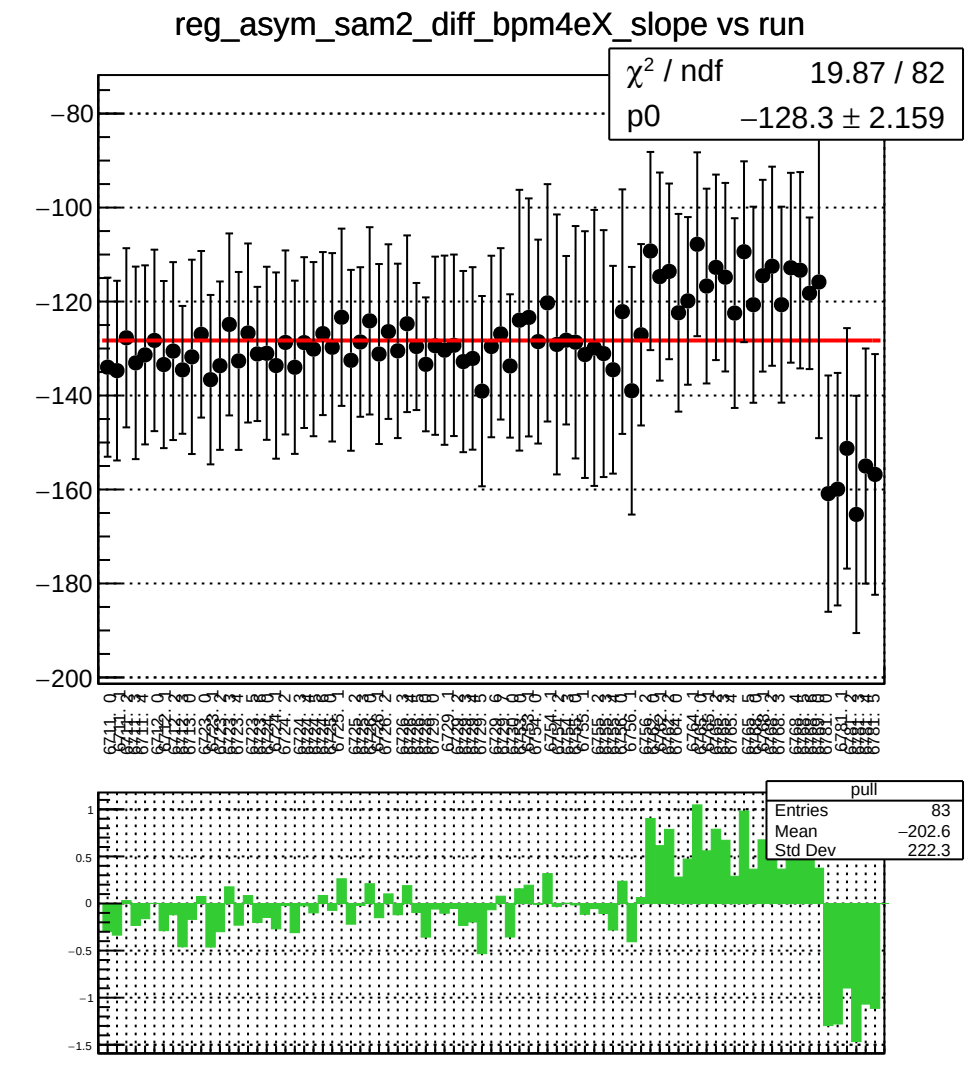

pull1D
Entries 83
Mean −0.02401
Std Dev 0.6671

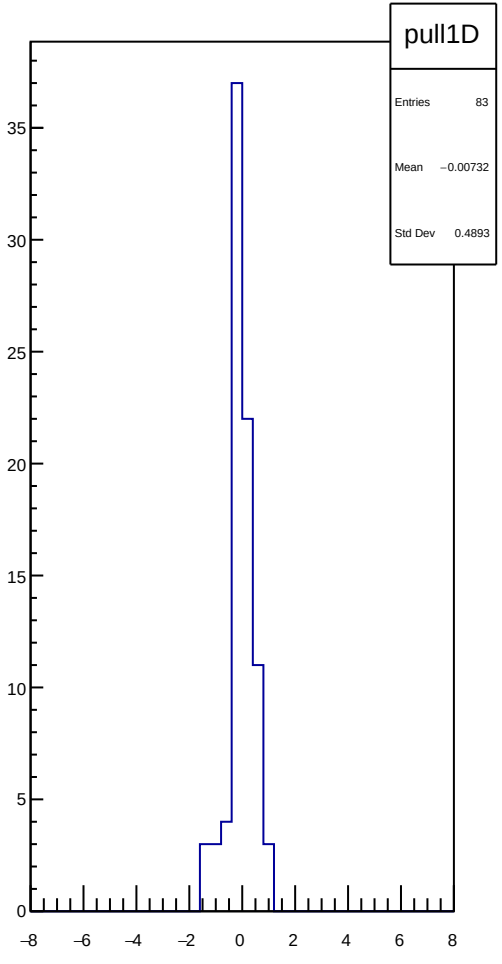

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 24.9 / 82
p0 0.4946 ± 0.0213
pull
Entries 83
Mean 316.6
Std Dev 306.7

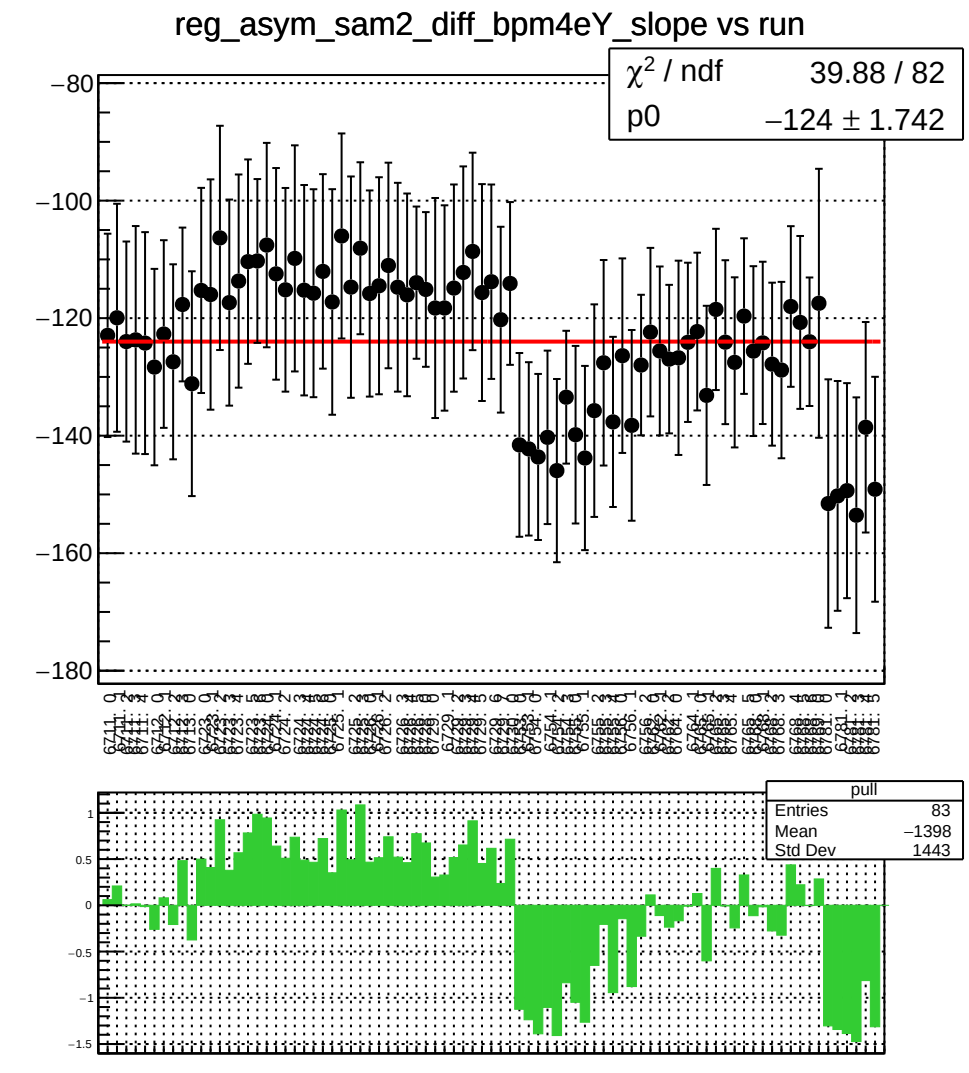

pull1D
Entries 83
Mean 0.007698
Std Dev 0.5476

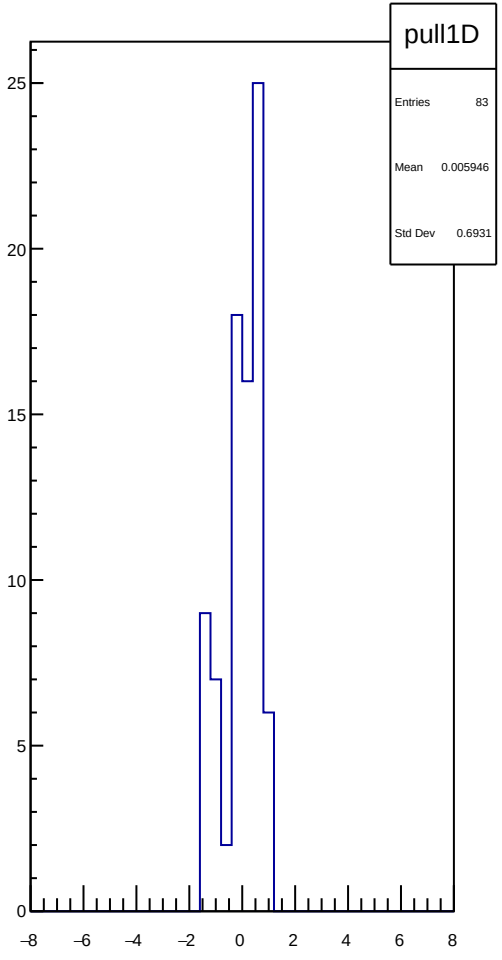

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 37.76 / 82
p0 −30.47 ± 2.251
pull
Entries 83
Mean 245.9
Std Dev 200.8
pull1D
Entries 83
Mean −0.06731
Std Dev 0.6711

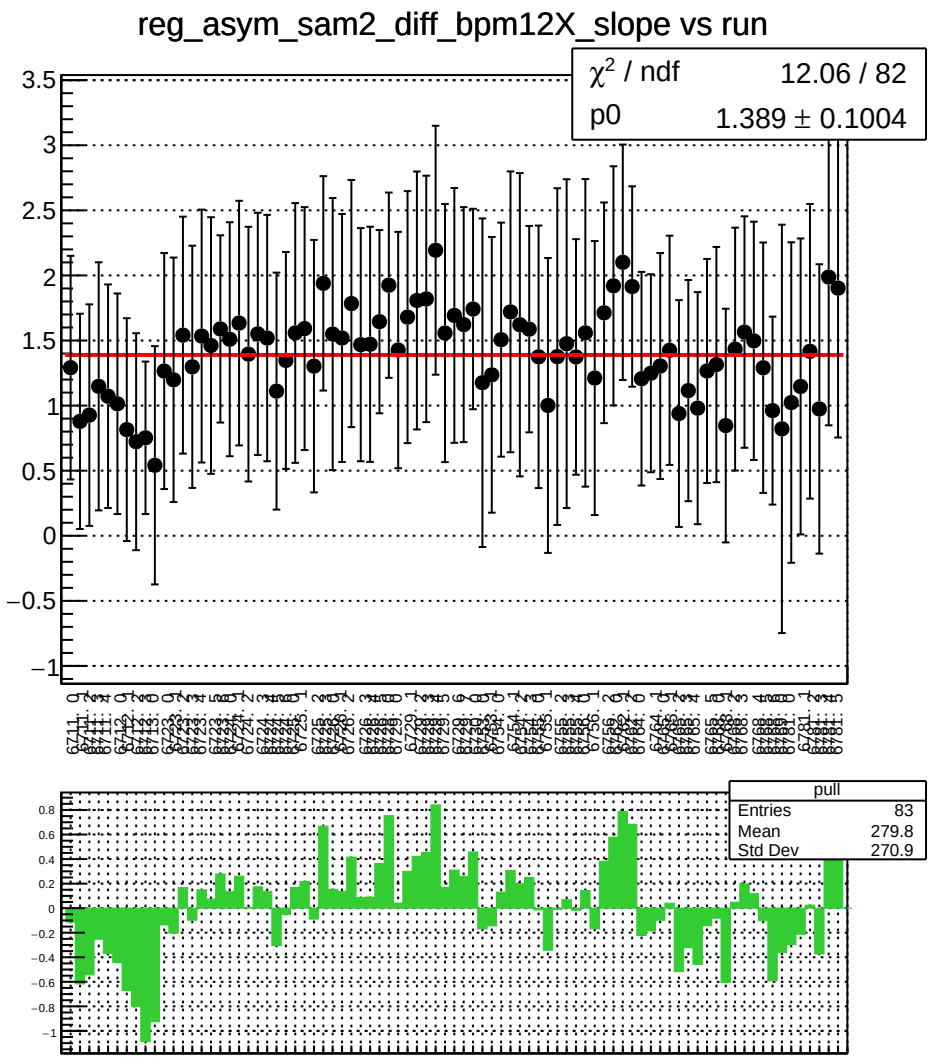

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 24.94 / 82
p0 −29.43 ± 1.386
pull
Entries 83
Mean −29.15
Std Dev 57.65
pull1D
Entries 83
Mean −0.05004
Std Dev 0.5459

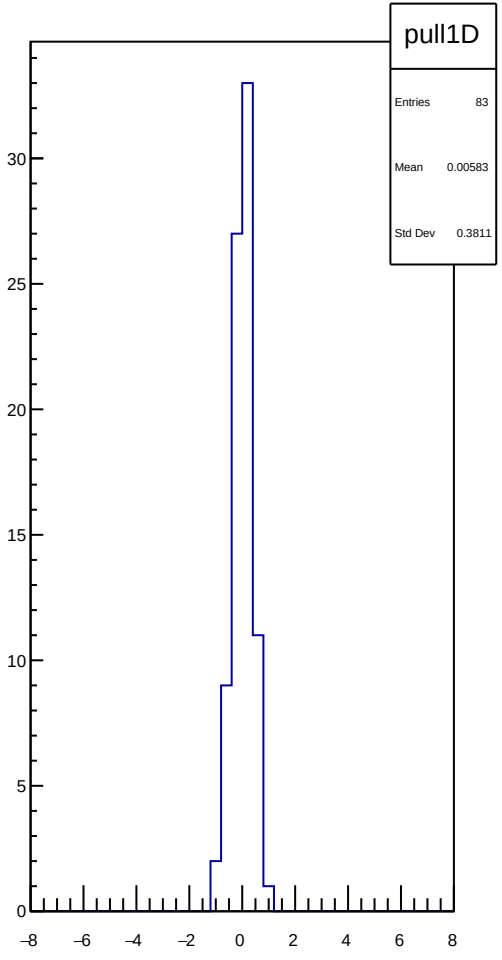

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 19.87 / 82
p0 −128.3 ± 2.159
pull
Entries 83
Mean −202.6
Std Dev 222.3

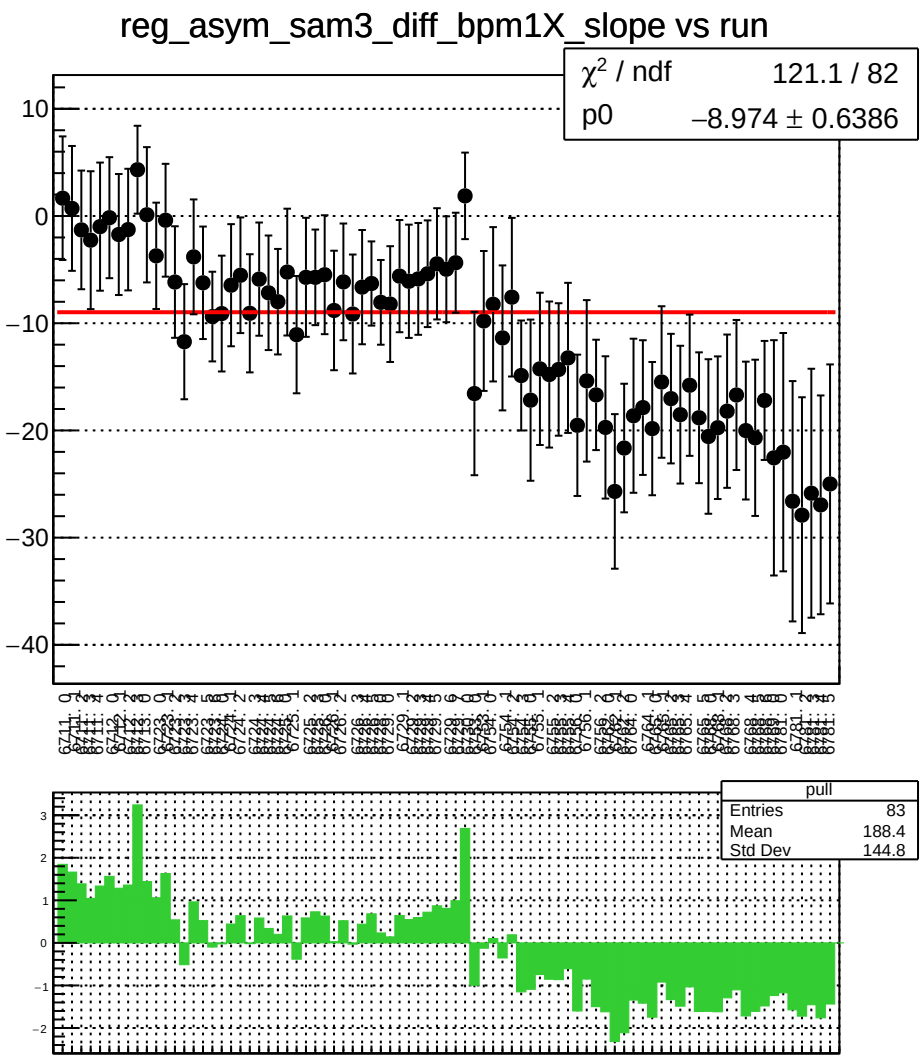

pull1D
Entries 83
Mean −0.00732
Std Dev 0.4893

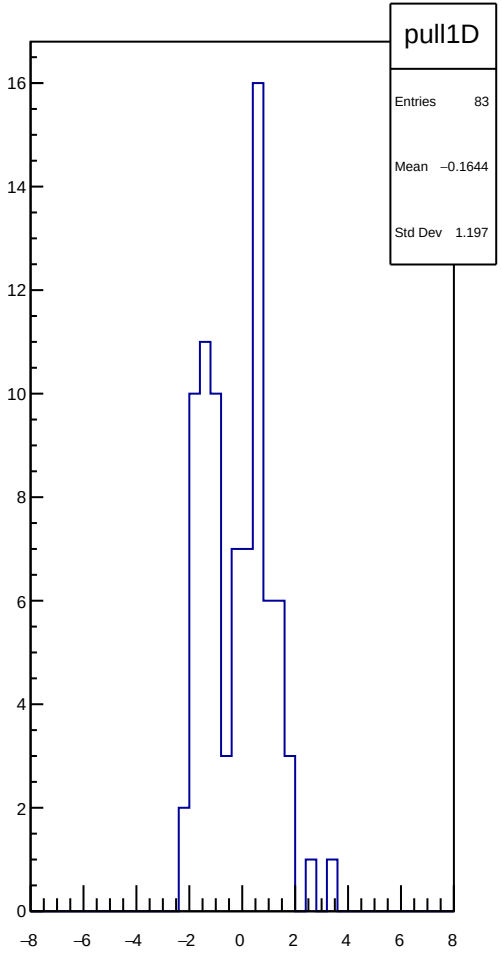

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 39.88 / 82
p0 −124 ± 1.742
pull
Entries 83
Mean −1398
Std Dev 1443

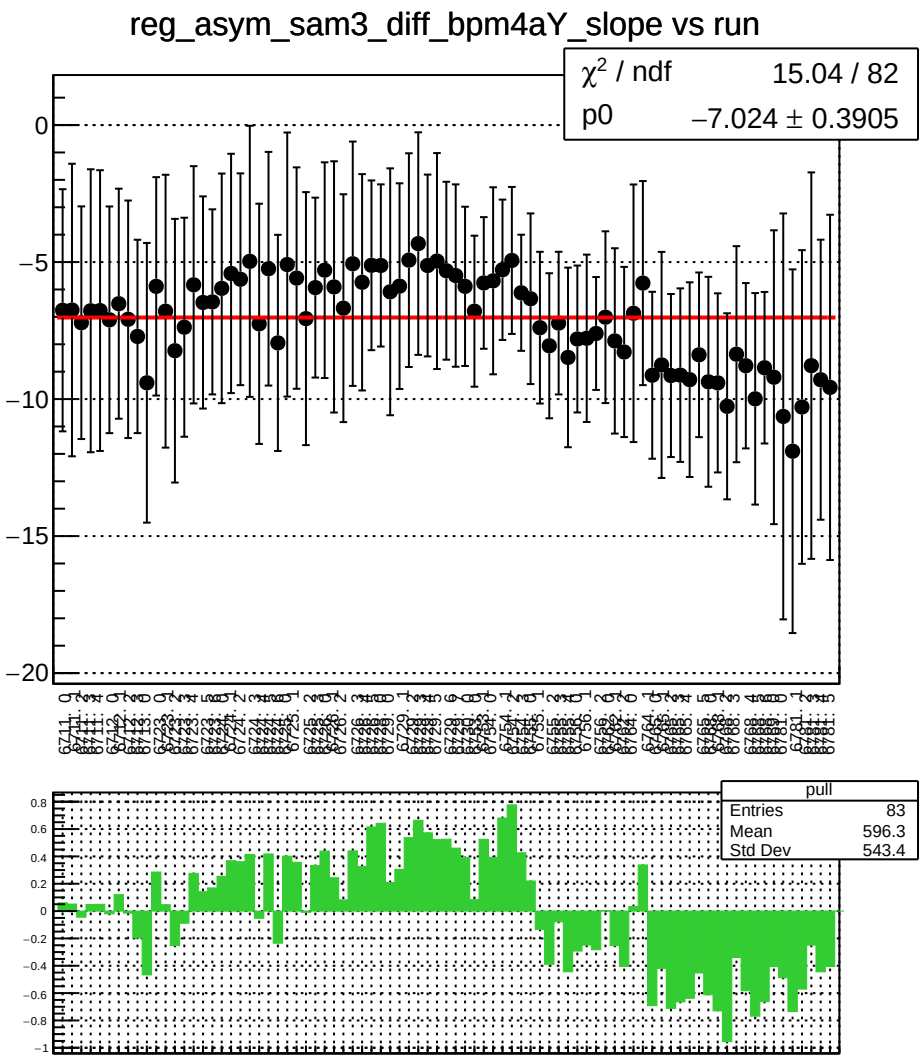

pull1D
Entries 83
Mean 0.005946
Std Dev 0.6931

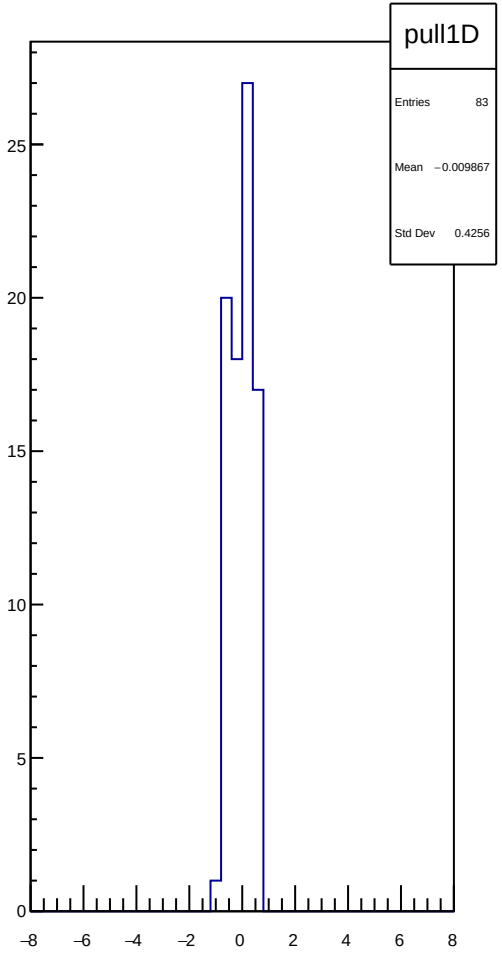

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 12.06 / 82
p0 1.389 ± 0.1004
pull
Entries 83
Mean 279.8
Std Dev 270.9

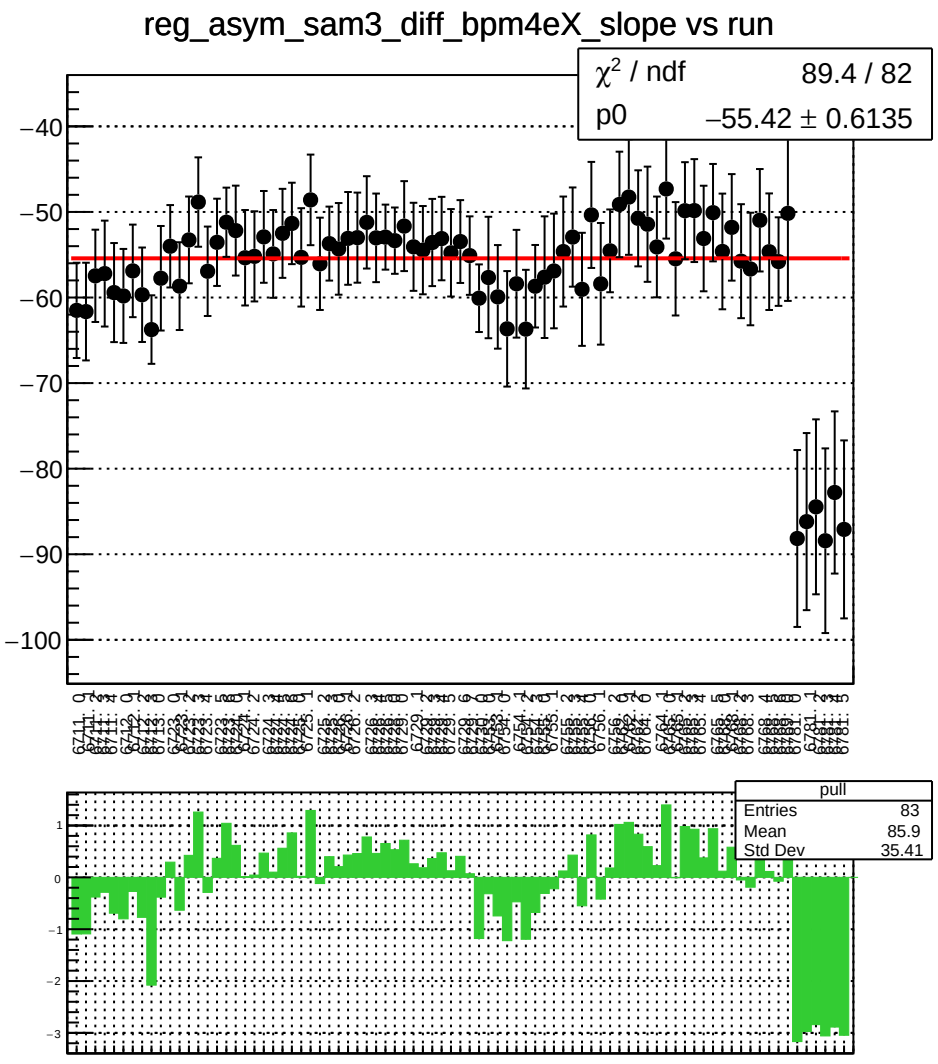

pull1D
Entries 83
Mean 0.00583
Std Dev 0.3811

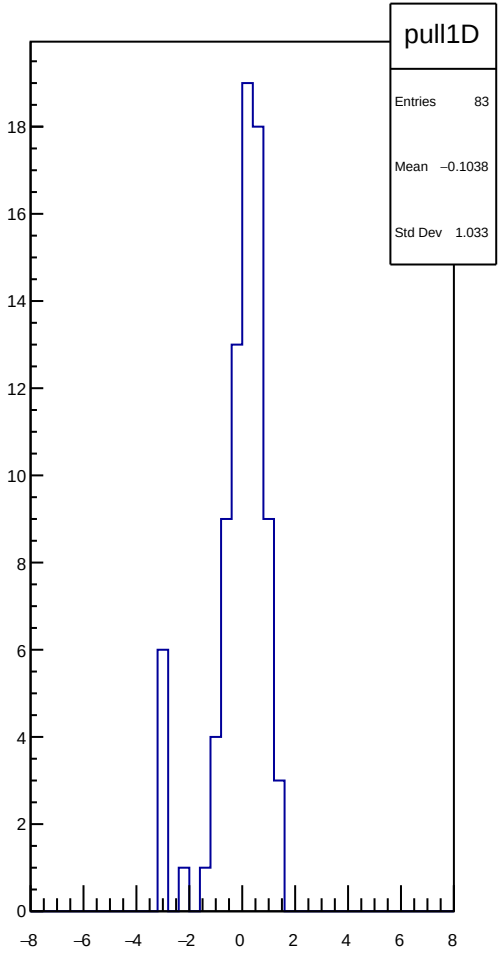

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 121.1 / 82
p0 −8.974 ± 0.6386
pull
Entries 83
Mean 188.4
Std Dev 144.8

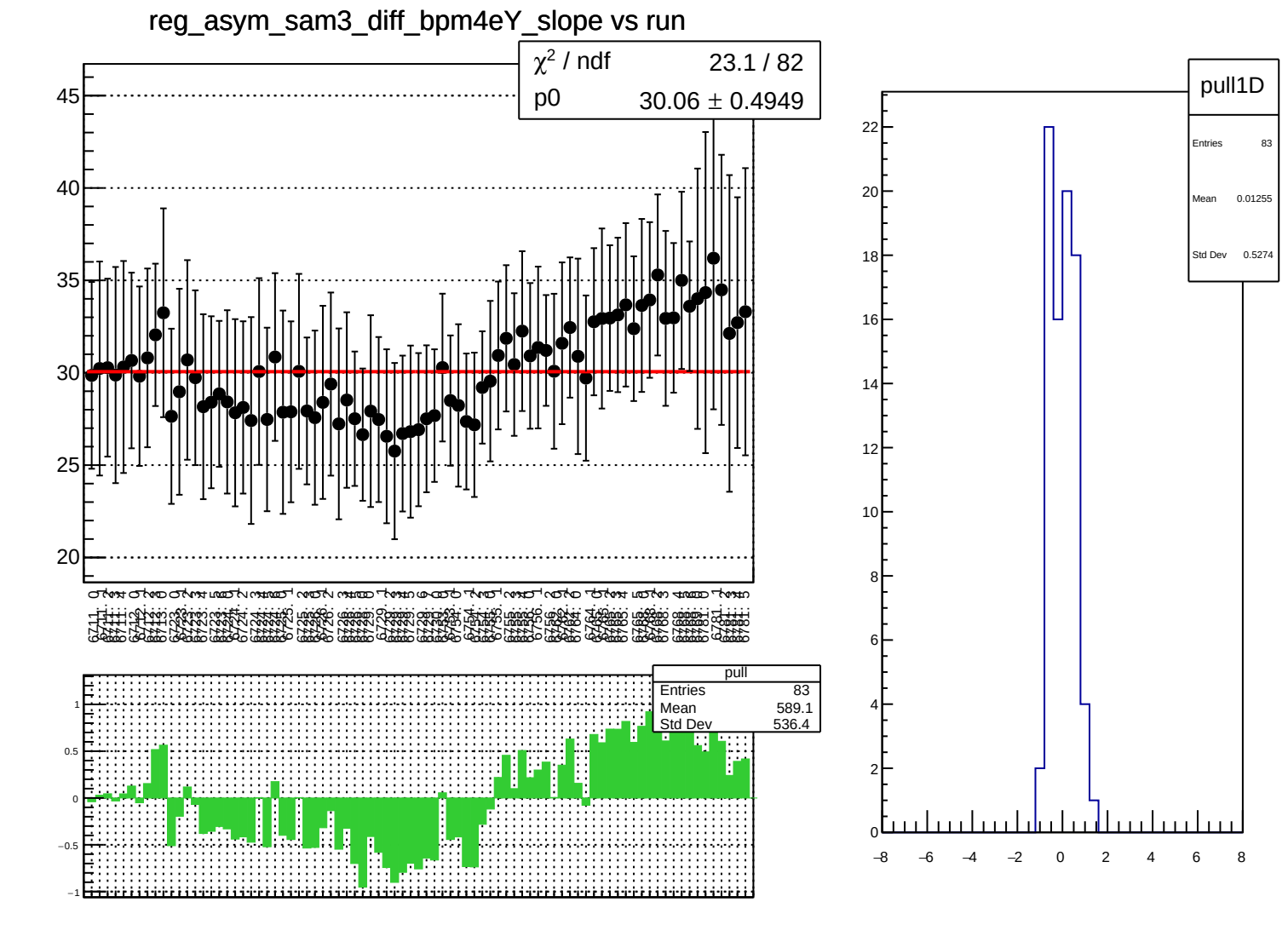

pull1D
Entries 83
Mean −0.1644
Std Dev 1.197

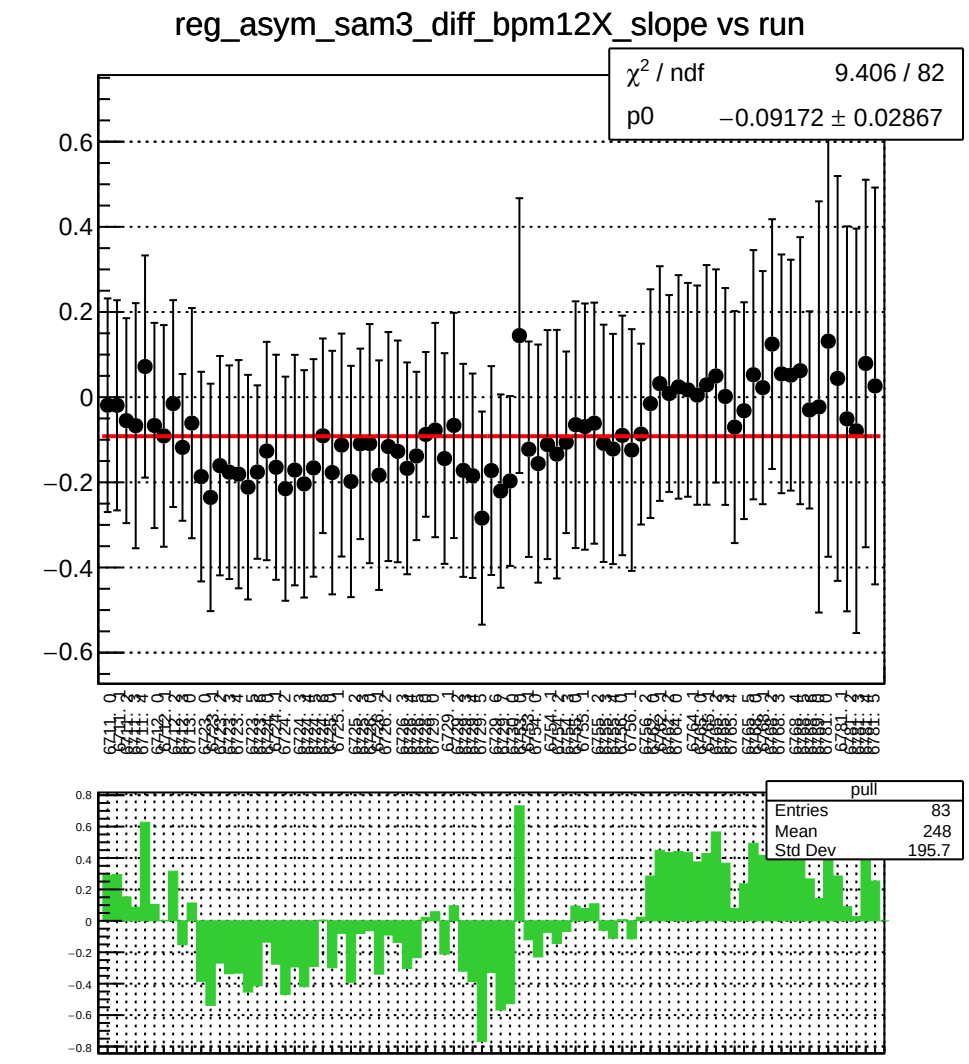

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 15.04 / 82
p0 −7.024 ± 0.3905
pull
Entries 83
Mean 596.3
Std Dev 543.4

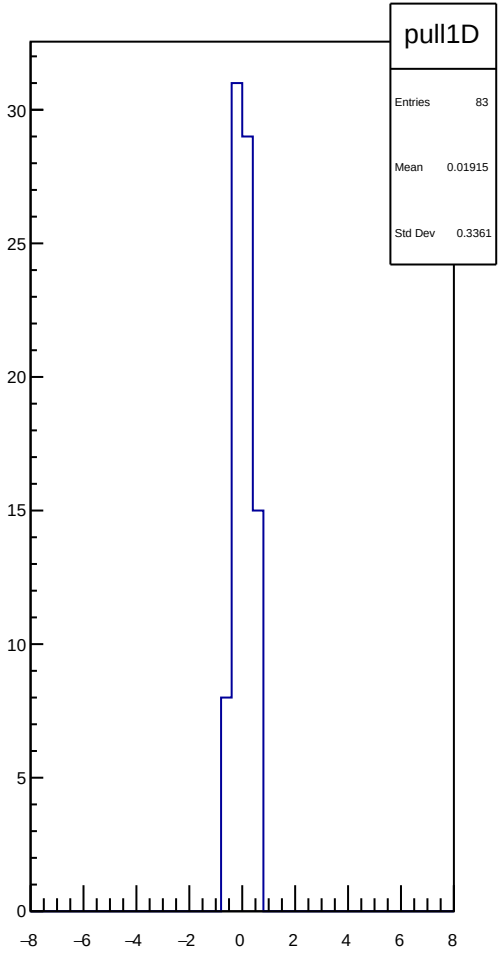

pull1D
Entries 83
Mean −0.009867
Std Dev 0.4256

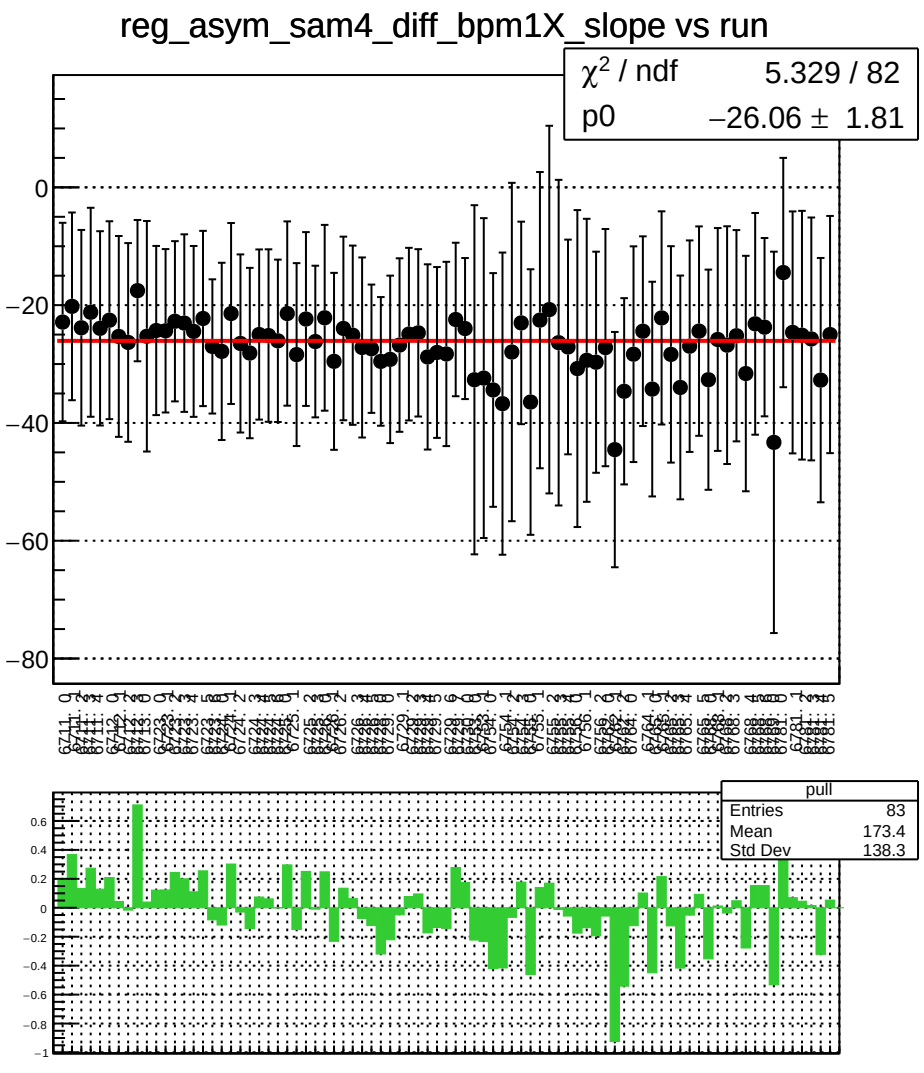

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 89.4 / 82
p0 −55.42 ± 0.6135
pull
Entries 83
Mean 85.9
Std Dev 35.41

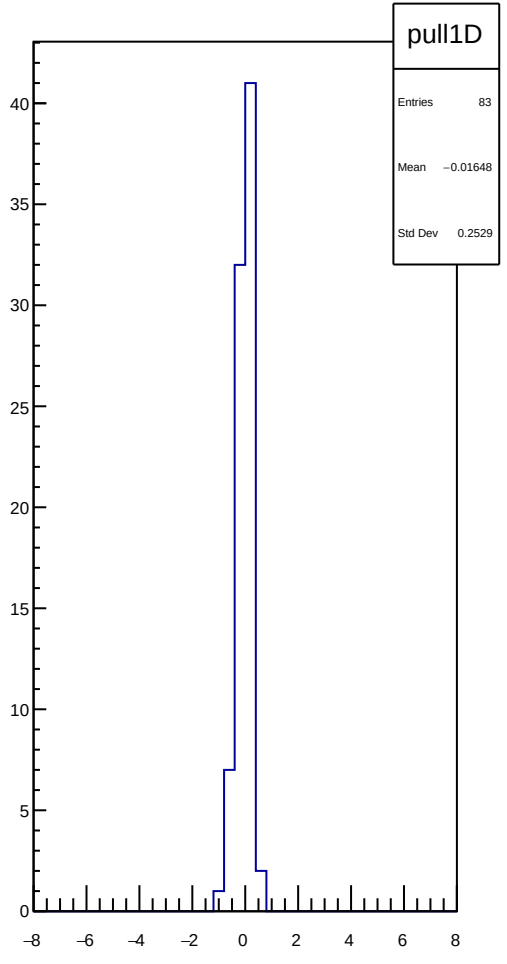

pull1D
Entries 83
Mean −0.1038
Std Dev 1.033

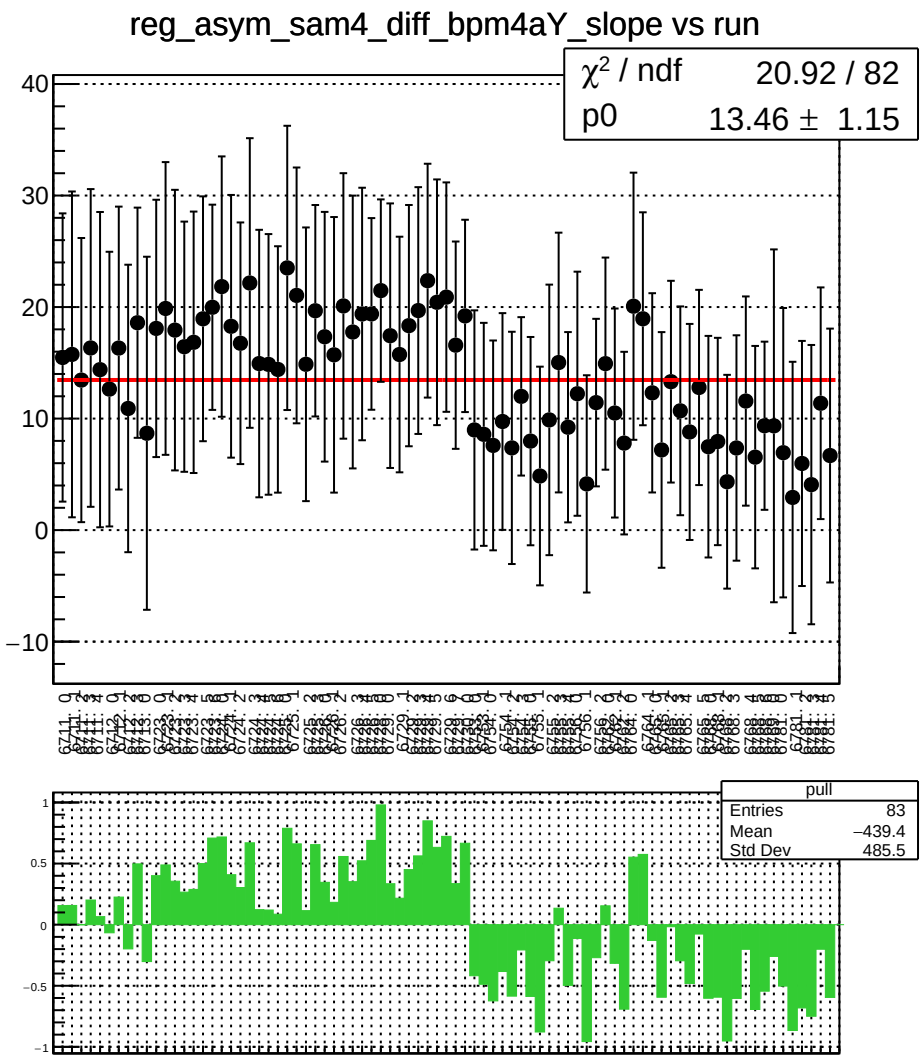

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 23.1 / 82
p0 30.06 ± 0.4949
pull
Entries 83
Mean 589.1
Std Dev 536.4
pull1D
Entries 83
Mean 0.01255
Std Dev 0.5274

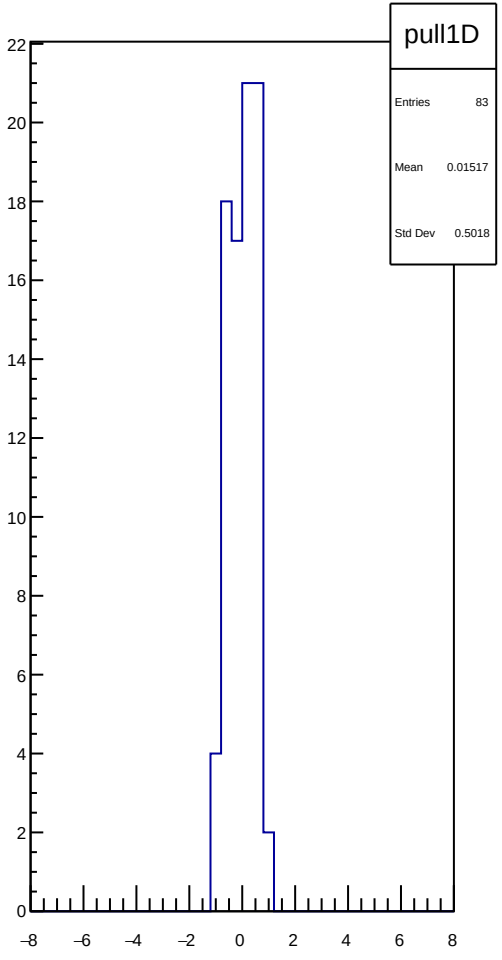

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 9.406 / 82
p0 −0.09172 ± 0.02867
pull
Entries 83
Mean 248
Std Dev 195.7

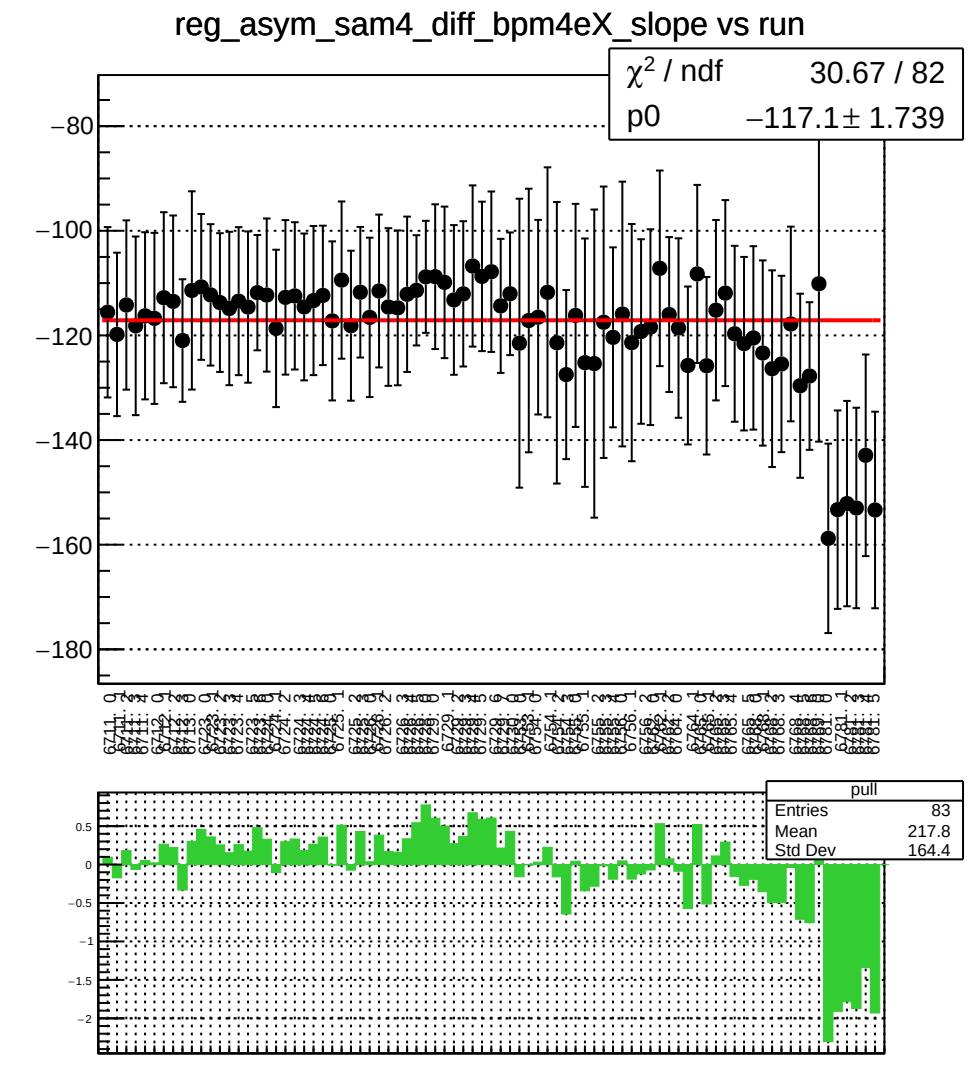

pull1D
Entries 83
Mean 0.01915
Std Dev 0.3361

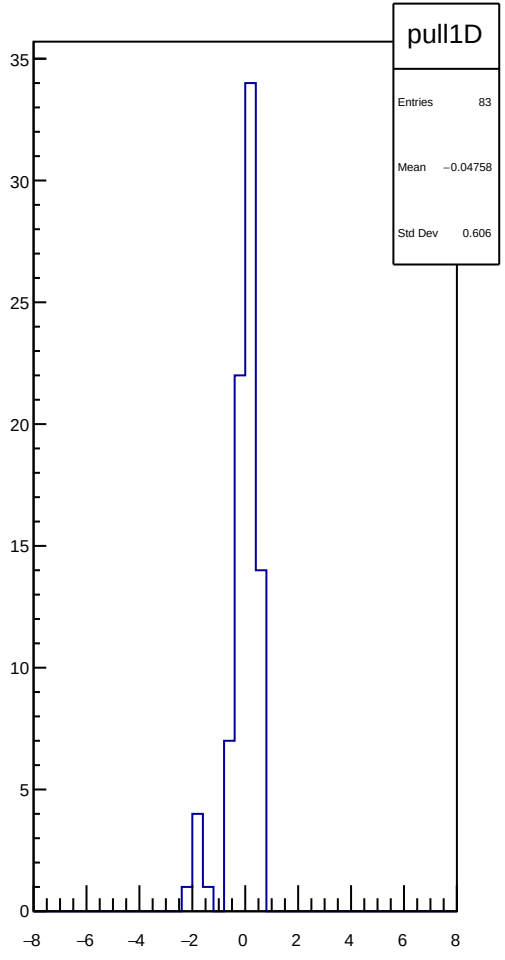

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 5.329 / 82
p0 −26.06 ± 1.81
pull
Entries 83
Mean 173.4
Std Dev 138.3

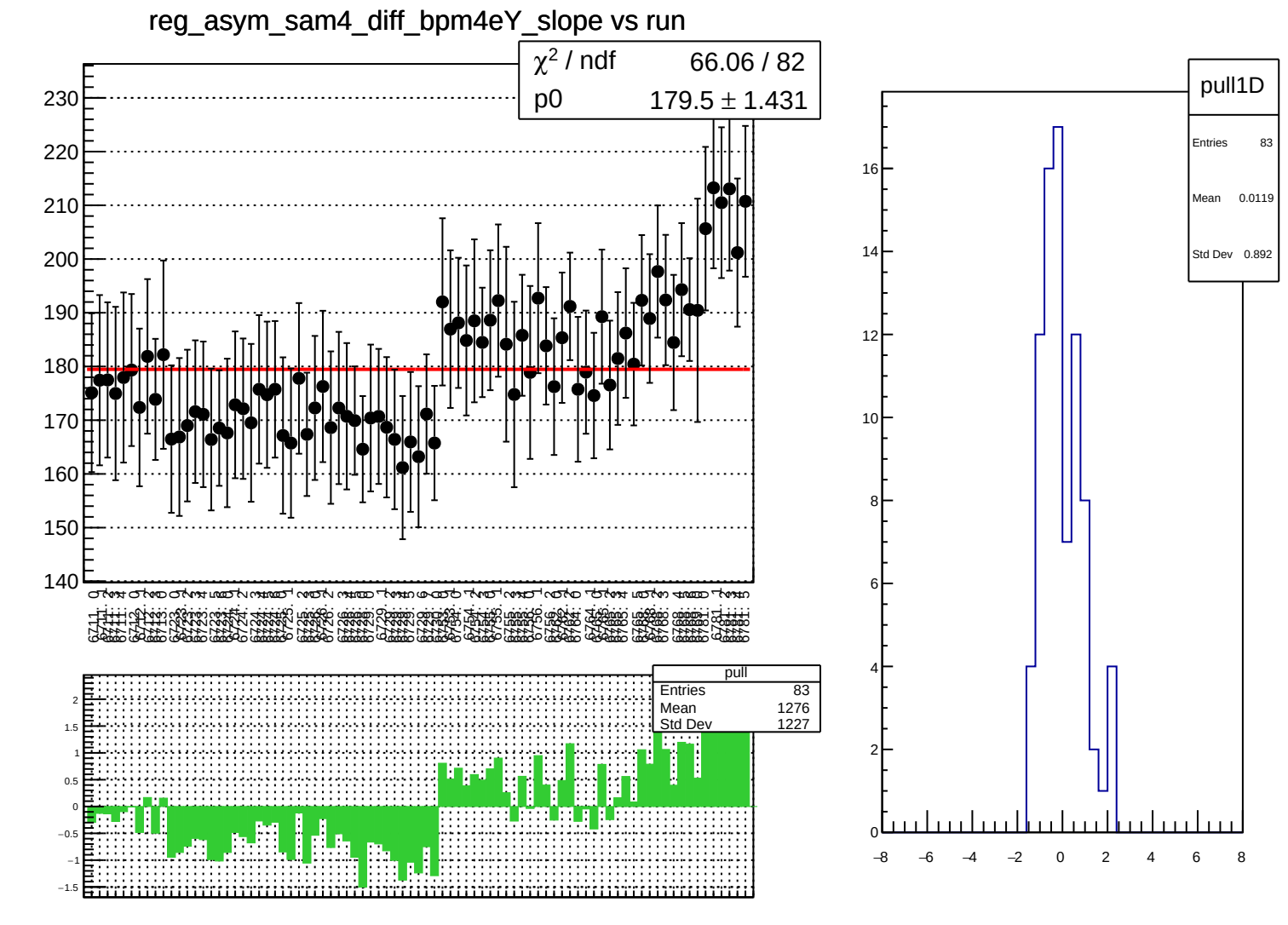

pull1D
Entries 83
Mean −0.01648
Std Dev 0.2529

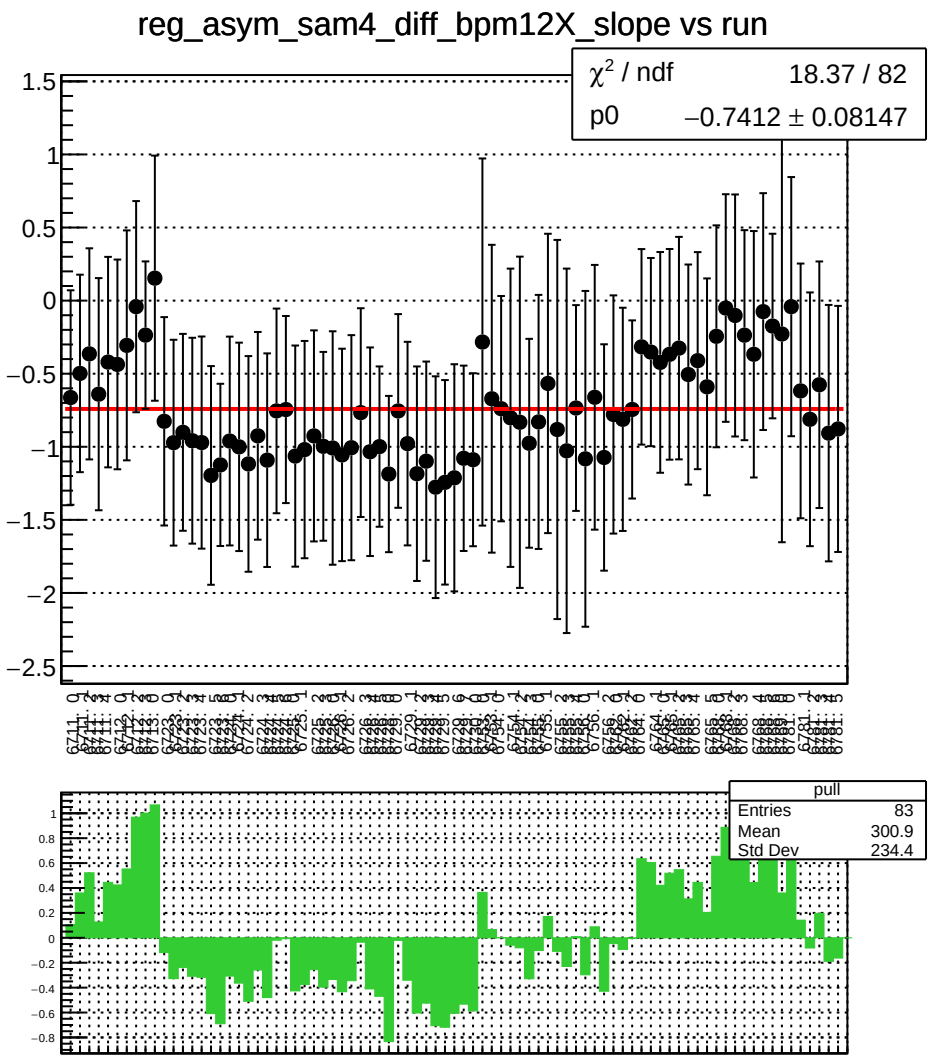

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 20.92 / 82
p0 13.46 ± 1.15
pull
Entries 83
Mean −439.4
Std Dev 485.5

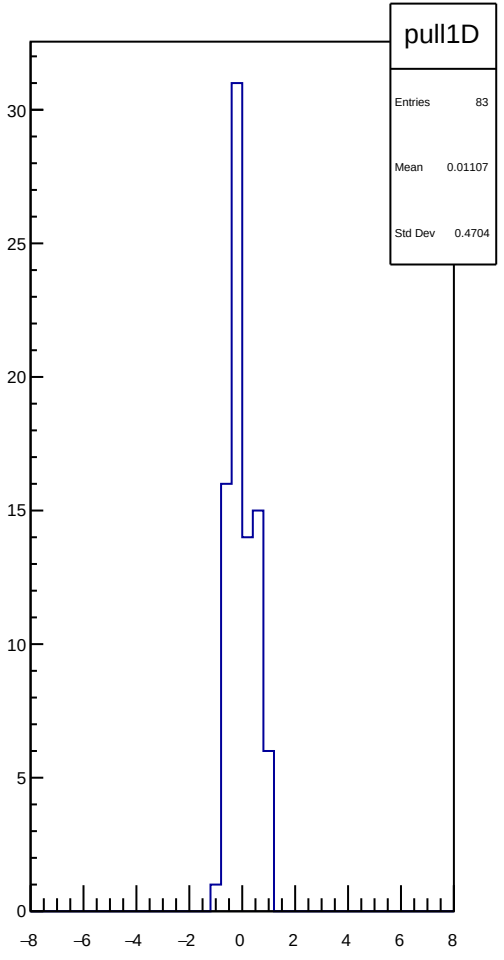

pull1D
Entries 83
Mean 0.01517
Std Dev 0.5018

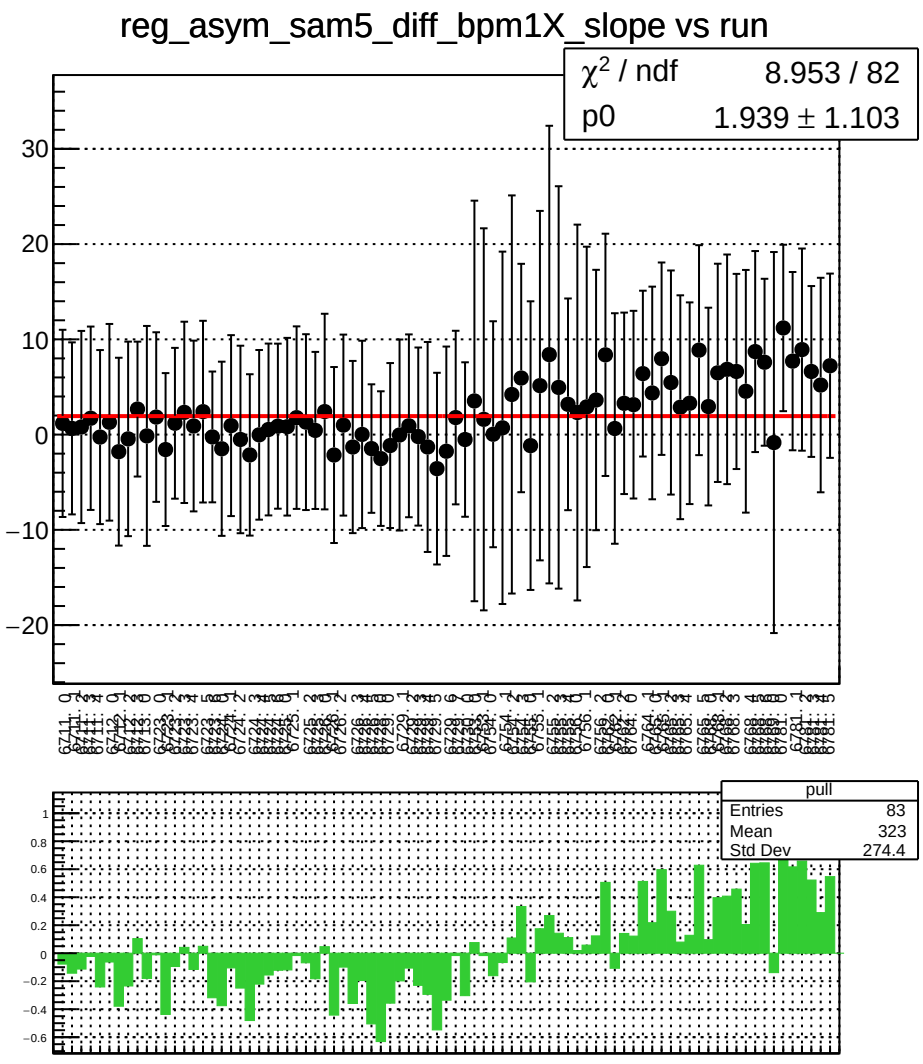

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 30.67 / 82
p0 −117.1± 1.739
−80
−100
−120
−140
−160
−180
pull
Entries 83
Mean 217.8
Std Dev 164.4
0.5
0
−0.5
−1
−1.5
−2

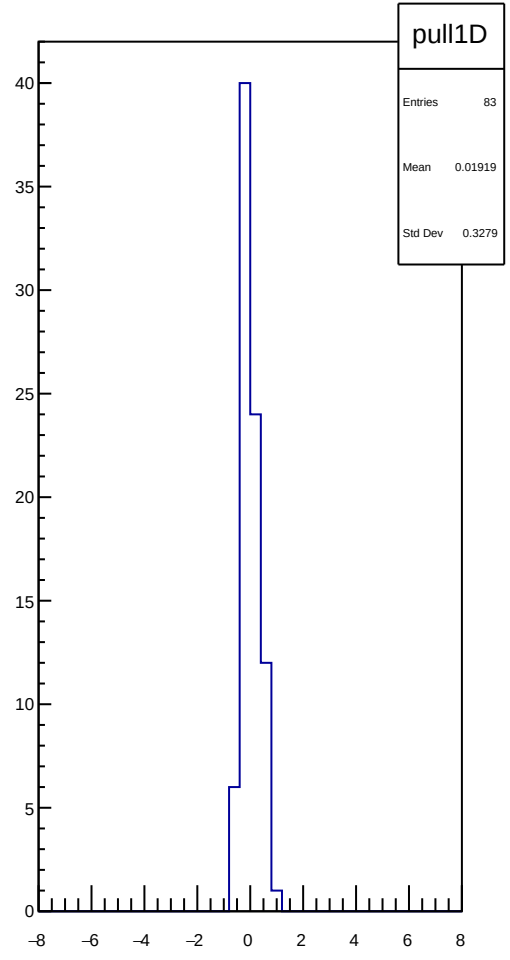

pull1D
Entries 83
Mean −0.04758
Std Dev 0.606
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

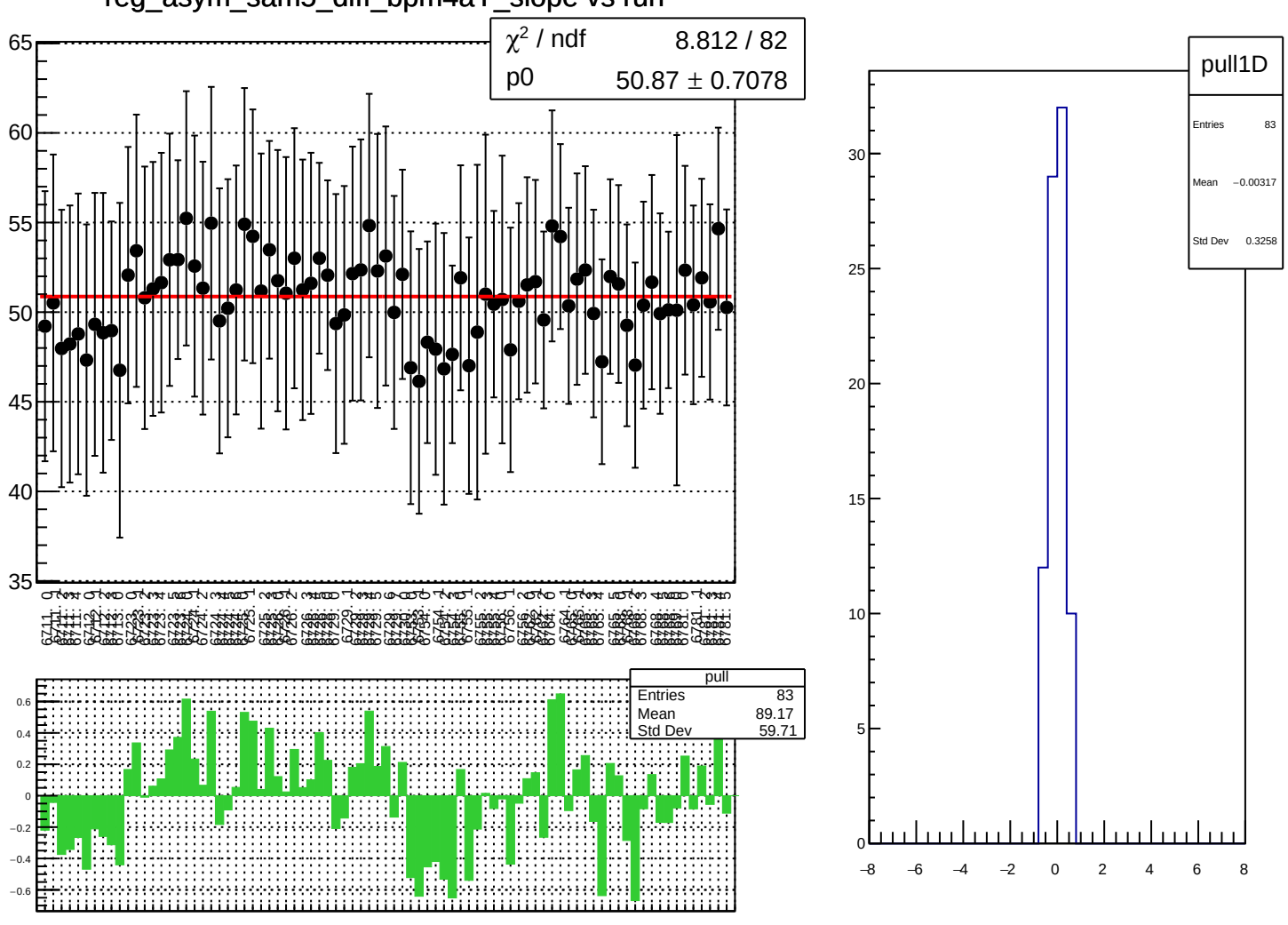

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 66.06 / 82
p0 179.5 ± 1.431
pull
Entries 83
Mean 1276
Std Dev 1227
pull1D
Entries 83
Mean 0.0119
Std Dev 0.892

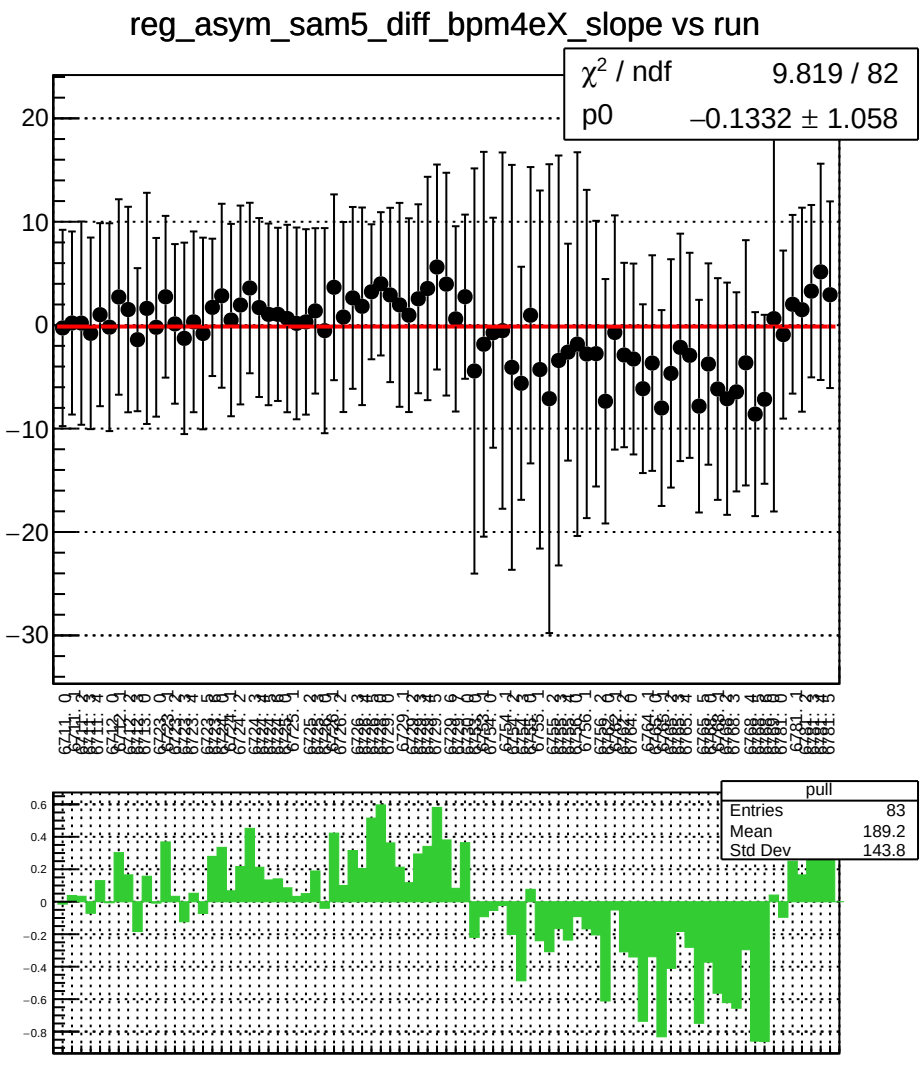

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 18.37 / 82
p0 −0.7412 ± 0.08147
pull
Entries 83
Mean 300.9
Std Dev 234.4

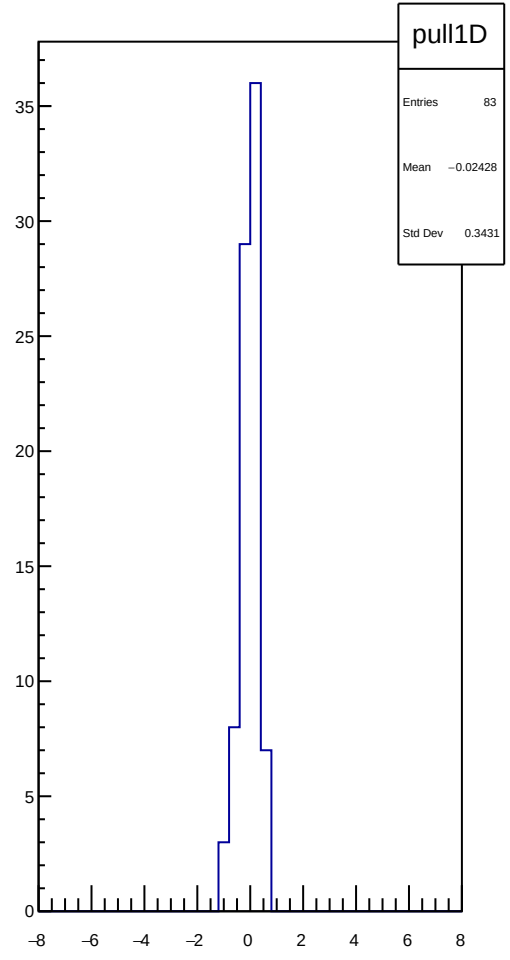

pull1D
Entries 83
Mean 0.01107
Std Dev 0.4704

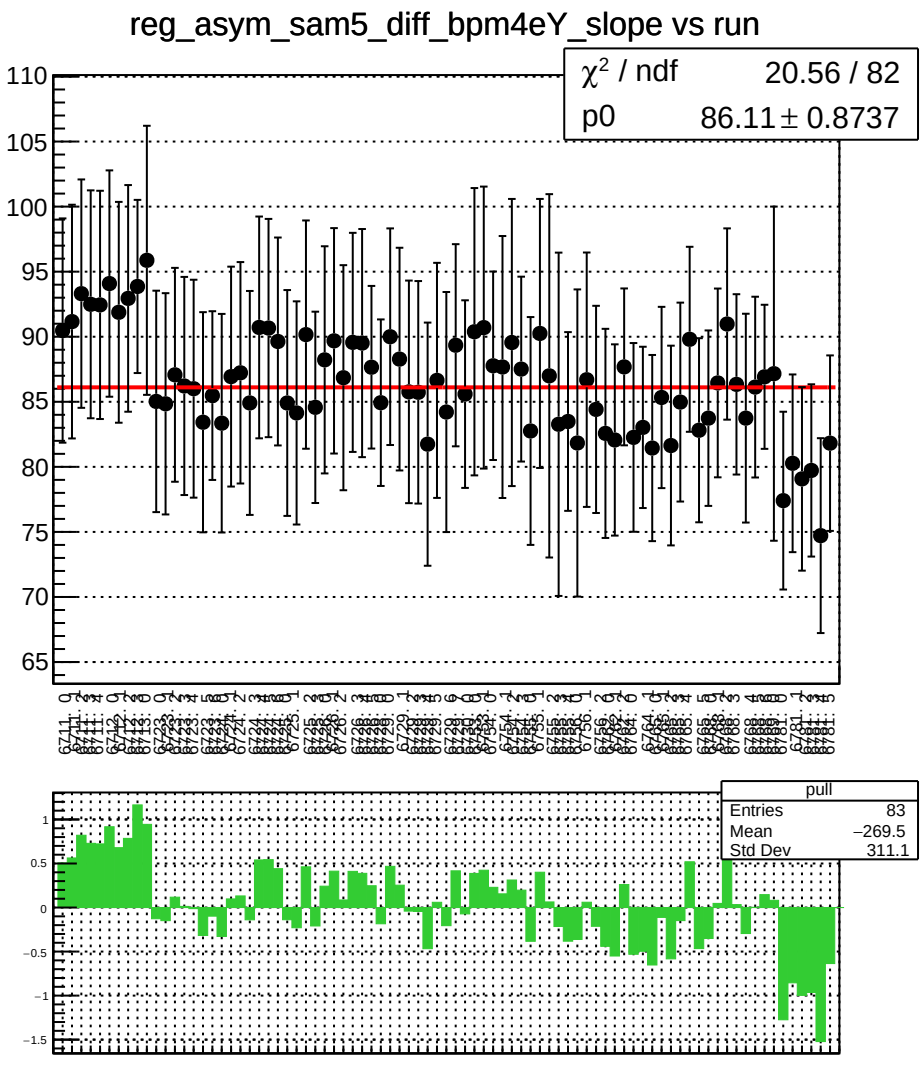

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 8.953 / 82
p0 1.939 ± 1.103
pull
Entries 83
Mean 323
Std Dev 274.4

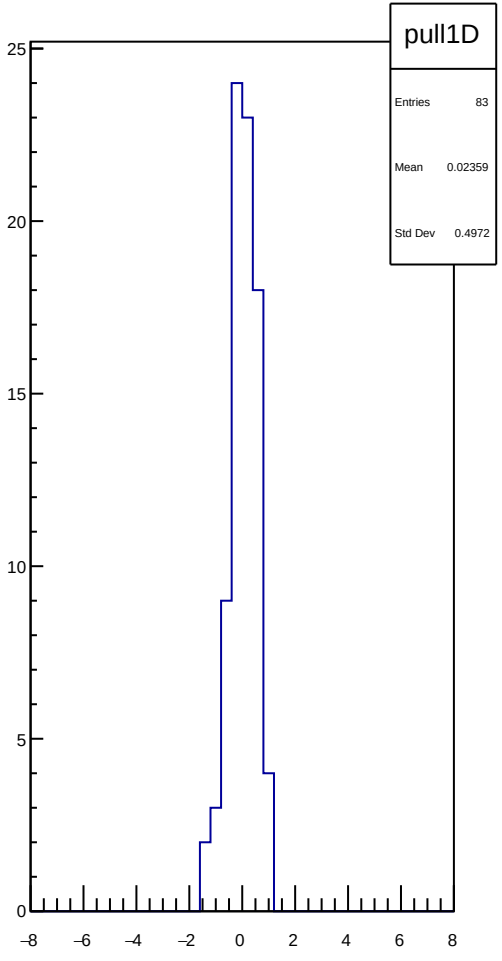

pull1D
Entries 83
Mean 0.01919
Std Dev 0.3279

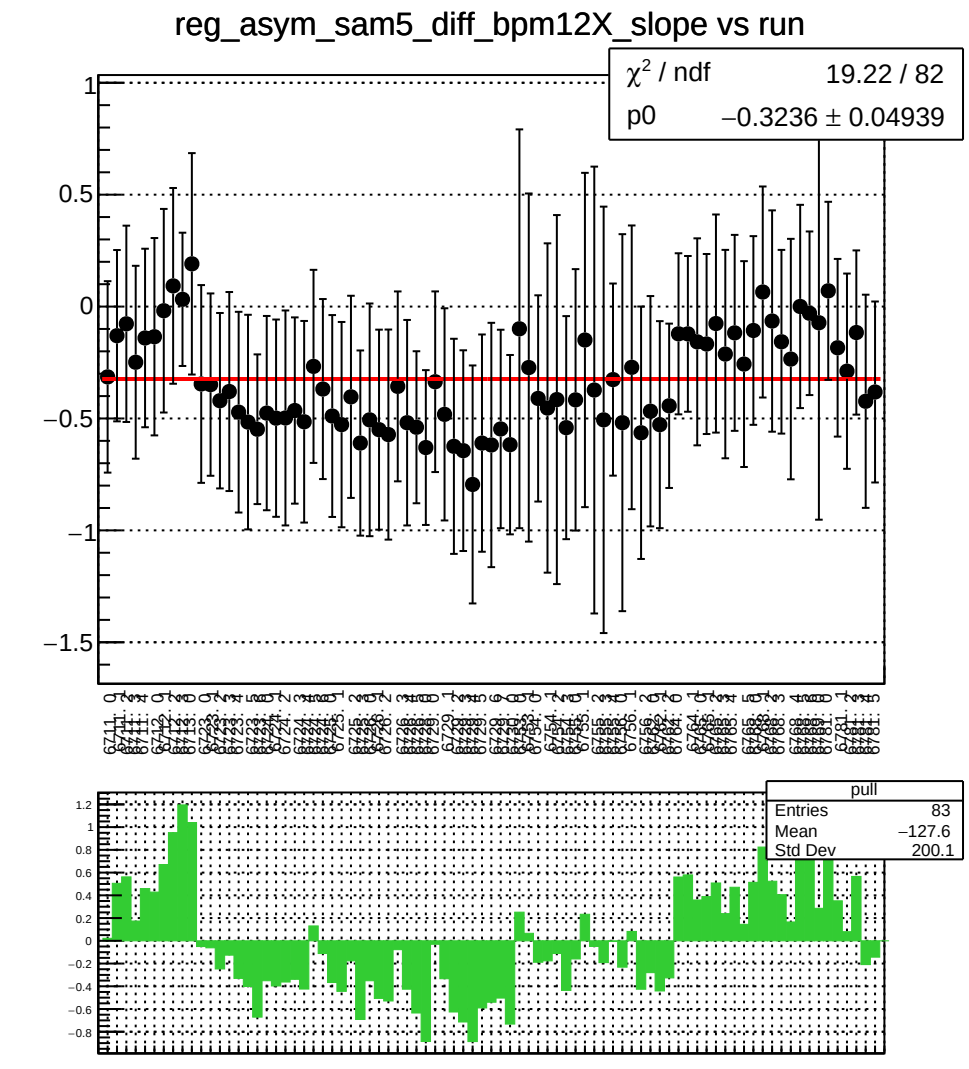

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 8.812 / 82
p0 50.87 ± 0.7078
pull
Entries 83
Mean 89.17
Std Dev 59.71
pull1D
Entries 83
Mean −0.00317
Std Dev 0.3258

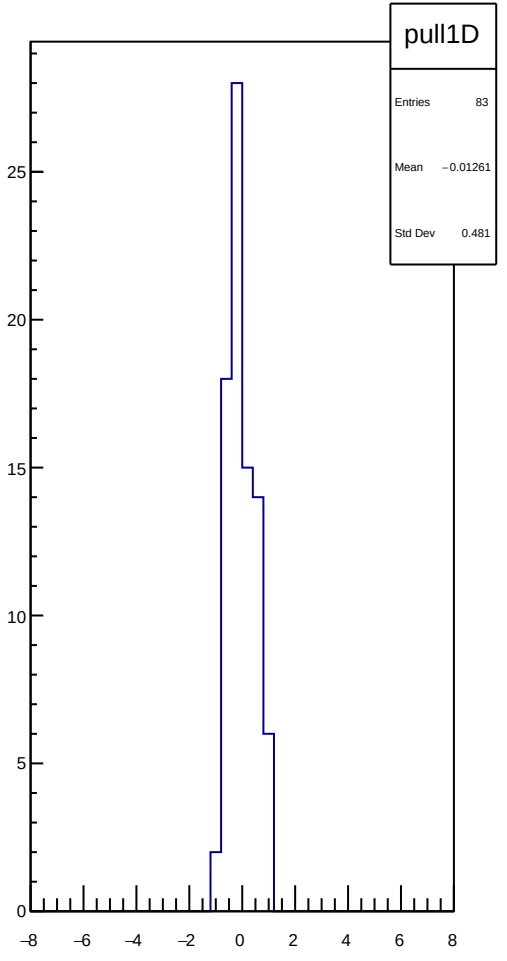

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 9.819 / 82
p0 −0.1332 ± 1.058
pull
Entries 83
Mean 189.2
Std Dev 143.8

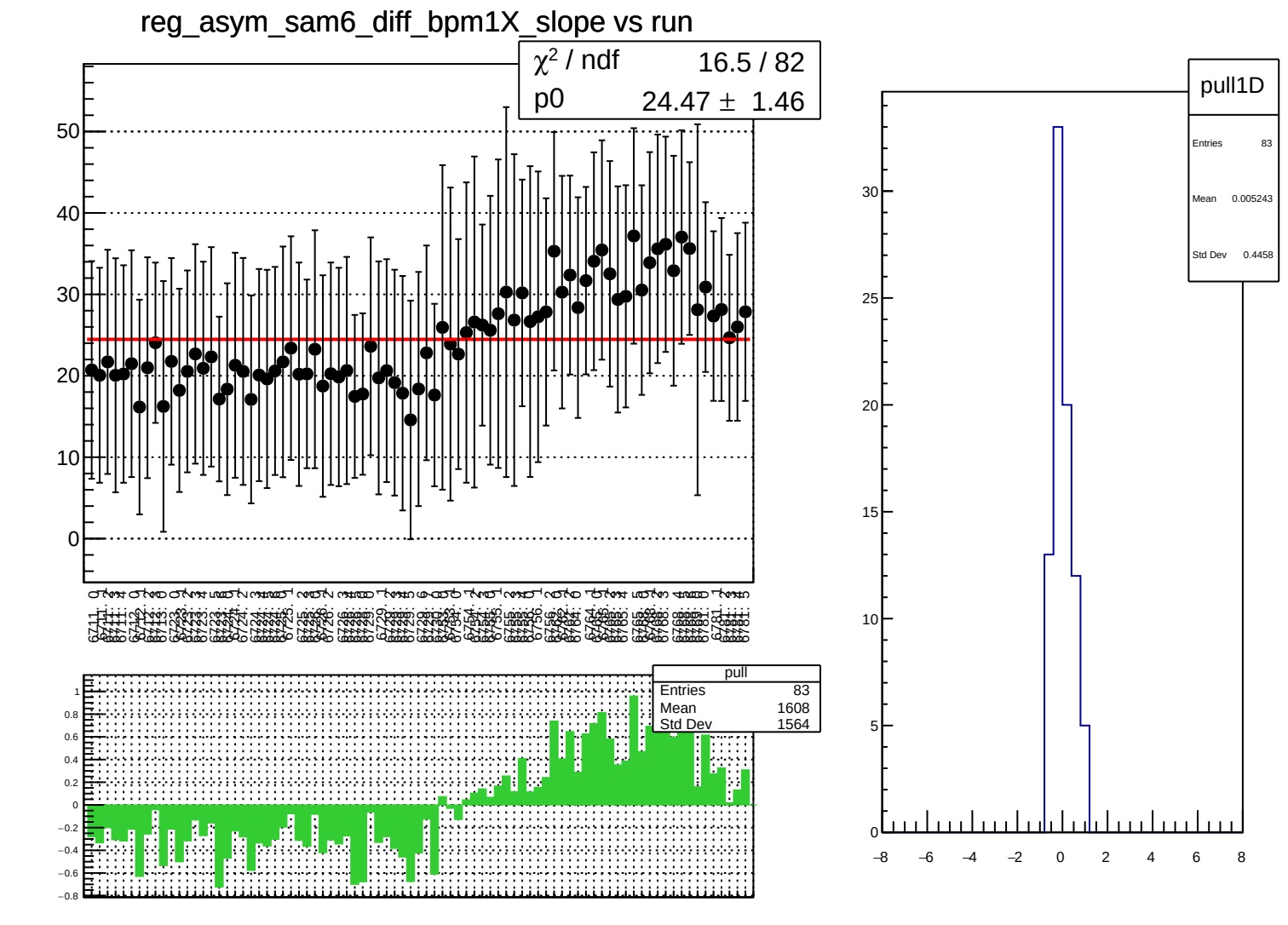

pull1D
Entries 83
Mean −0.02428
Std Dev 0.3431

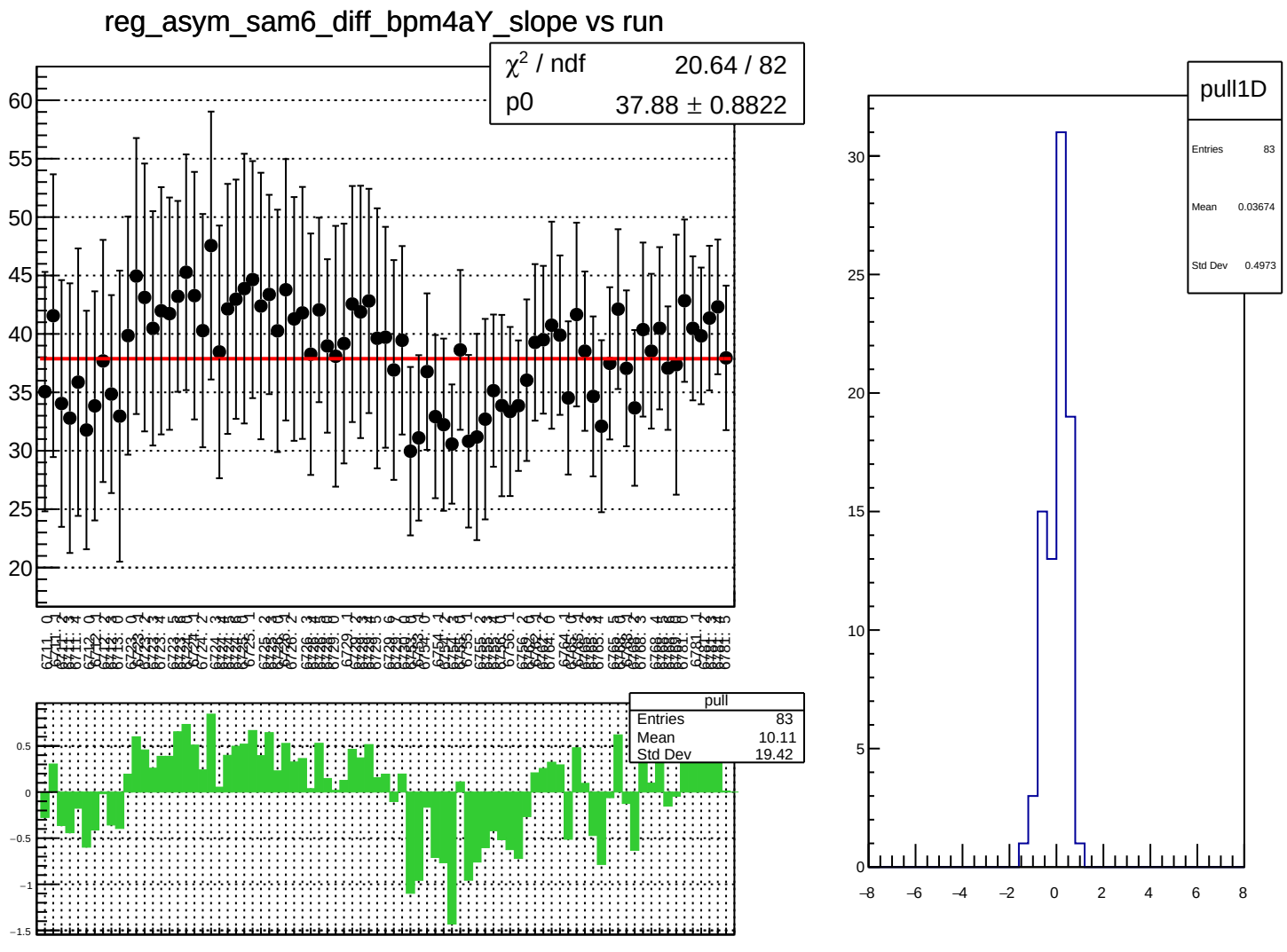

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 20.56 / 82
p0 86.11 ± 0.8737
pull
Entries 83
Mean −269.5
Std Dev 311.1

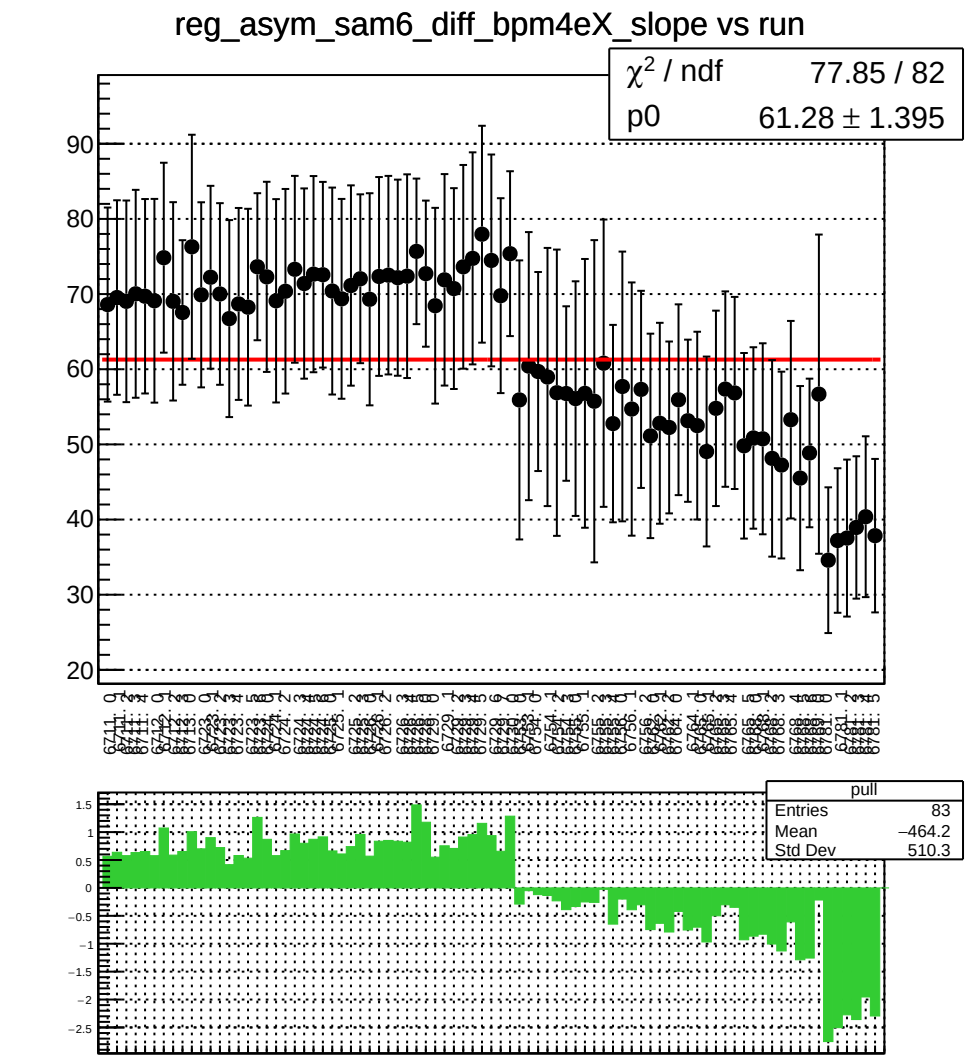

pull1D
Entries 83
Mean 0.02359
Std Dev 0.4972

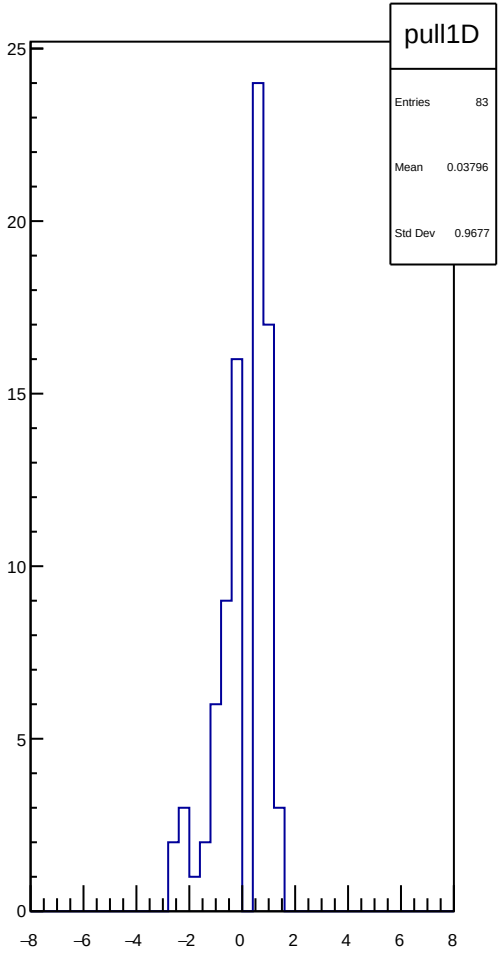

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 19.22 / 82
p0 −0.3236 ± 0.04939
pull
Entries 83
Mean −127.6
Std Dev 200.1

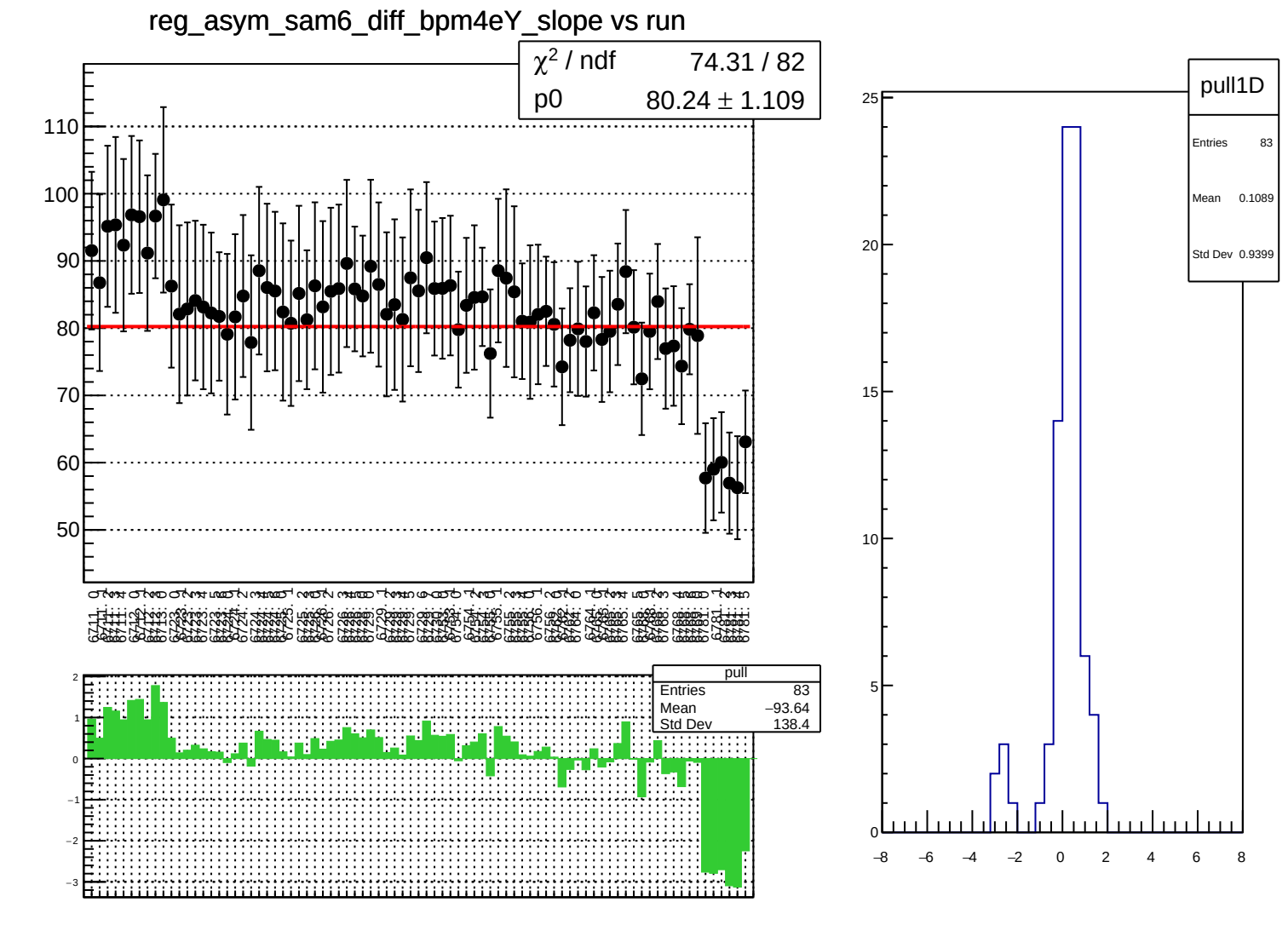

pull1D
Entries 83
Mean −0.01261
Std Dev 0.481

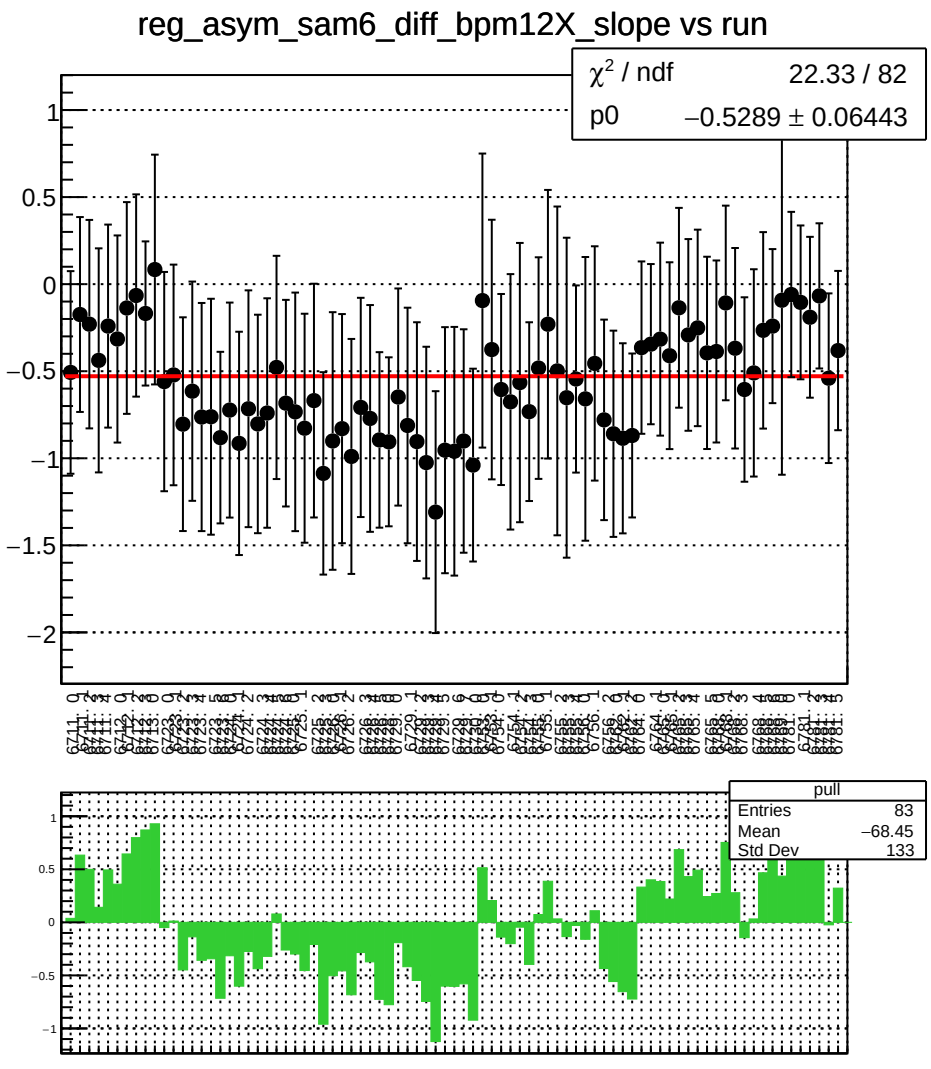

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 16.5 / 82
p0 24.47 ± 1.46
pull
Entries 83
Mean 1608
Std Dev 1564
pull1D
Entries 83
Mean 0.005243
Std Dev 0.4458

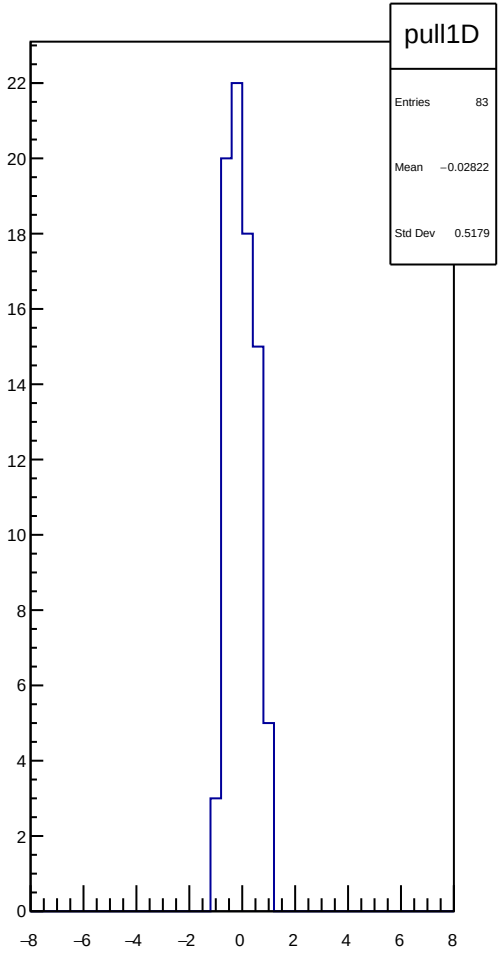

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 20.64 / 82
p0 37.88 ± 0.8822
pull
Entries 83
Mean 10.11
Std Dev 19.42
pull1D
Entries 83
Mean 0.03674
Std Dev 0.4973

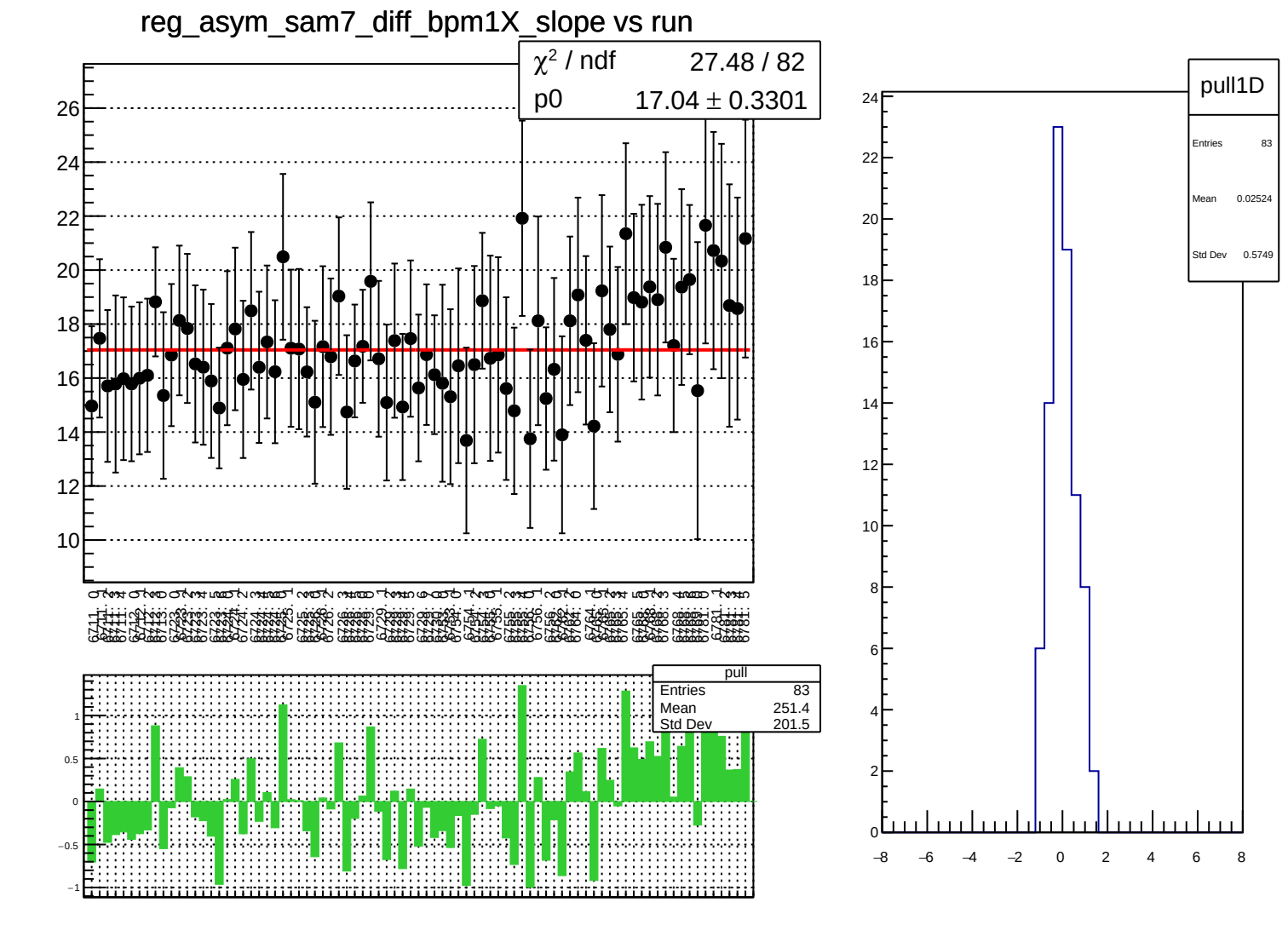

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 77.85 / 82
p0 61.28 ± 1.395
pull
Entries 83
Mean −464.2
Std Dev 510.3

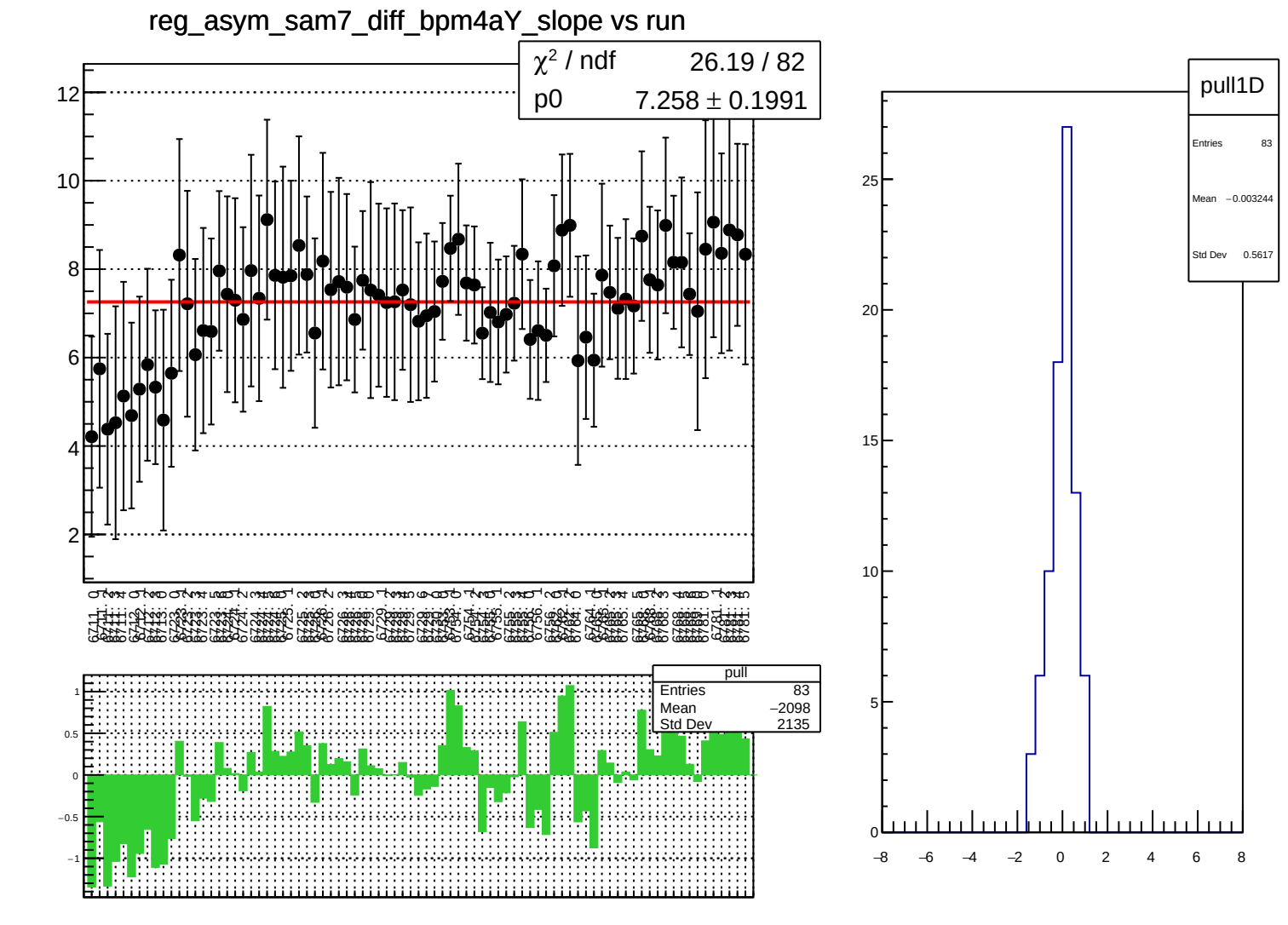

pull1D
Entries 83
Mean 0.03796
Std Dev 0.9677

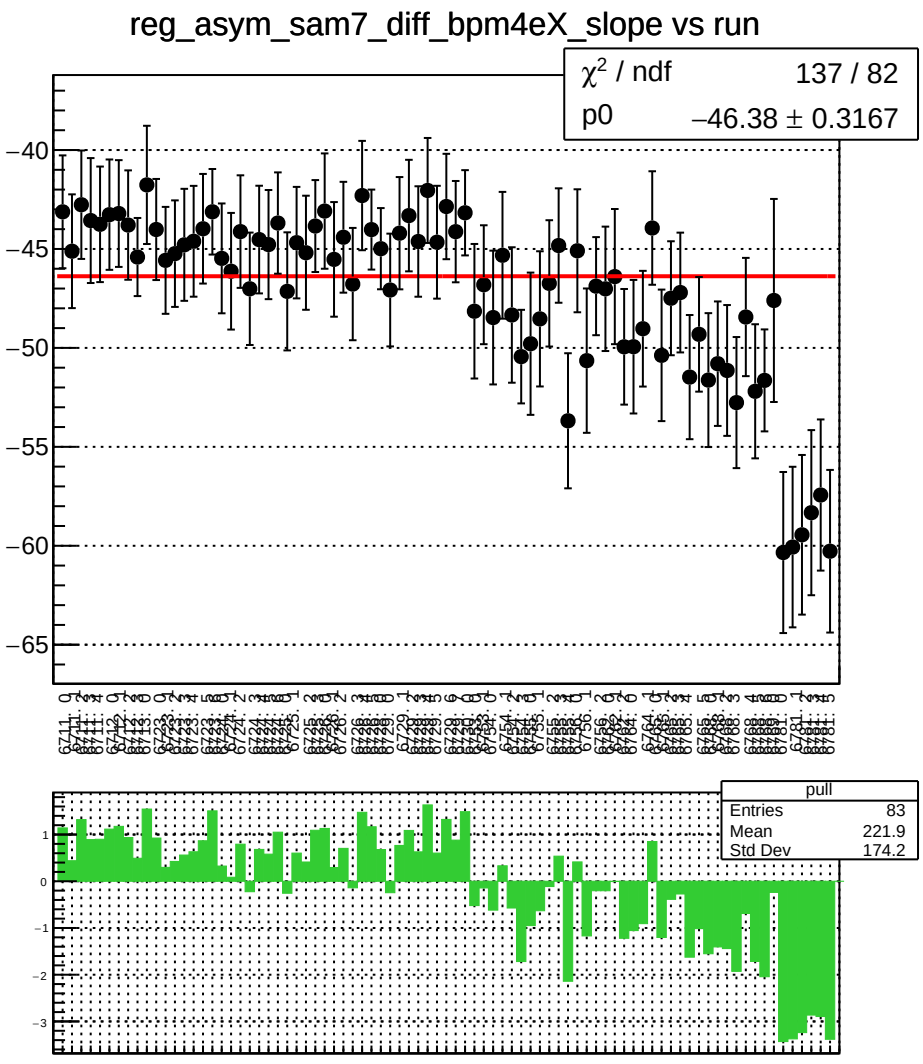

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 74.31 / 82
p0 80.24 ± 1.109
pull
Entries 83
Mean −93.64
Std Dev 138.4
pull1D
Entries 83
Mean 0.1089
Std Dev 0.9399

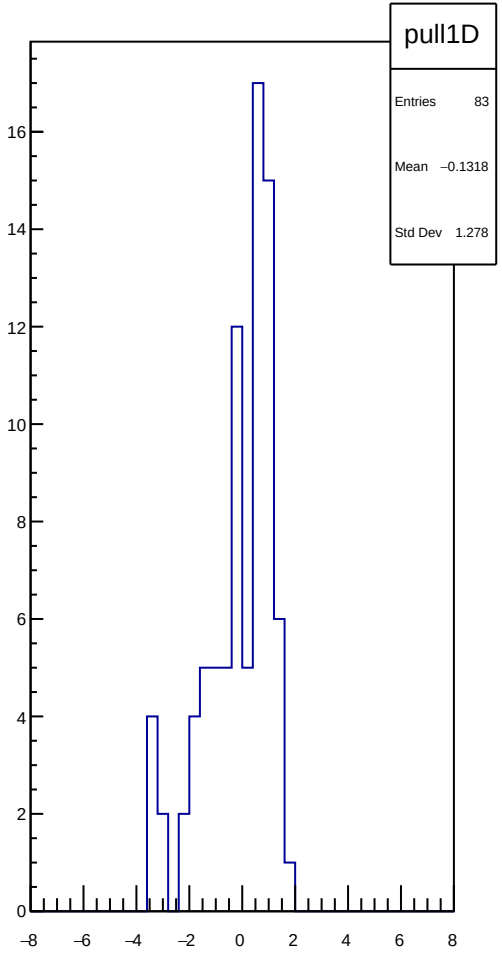

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 22.33 / 82
p0 −0.5289 ± 0.06443
pull
Entries 83
Mean −68.45
Std Dev 133

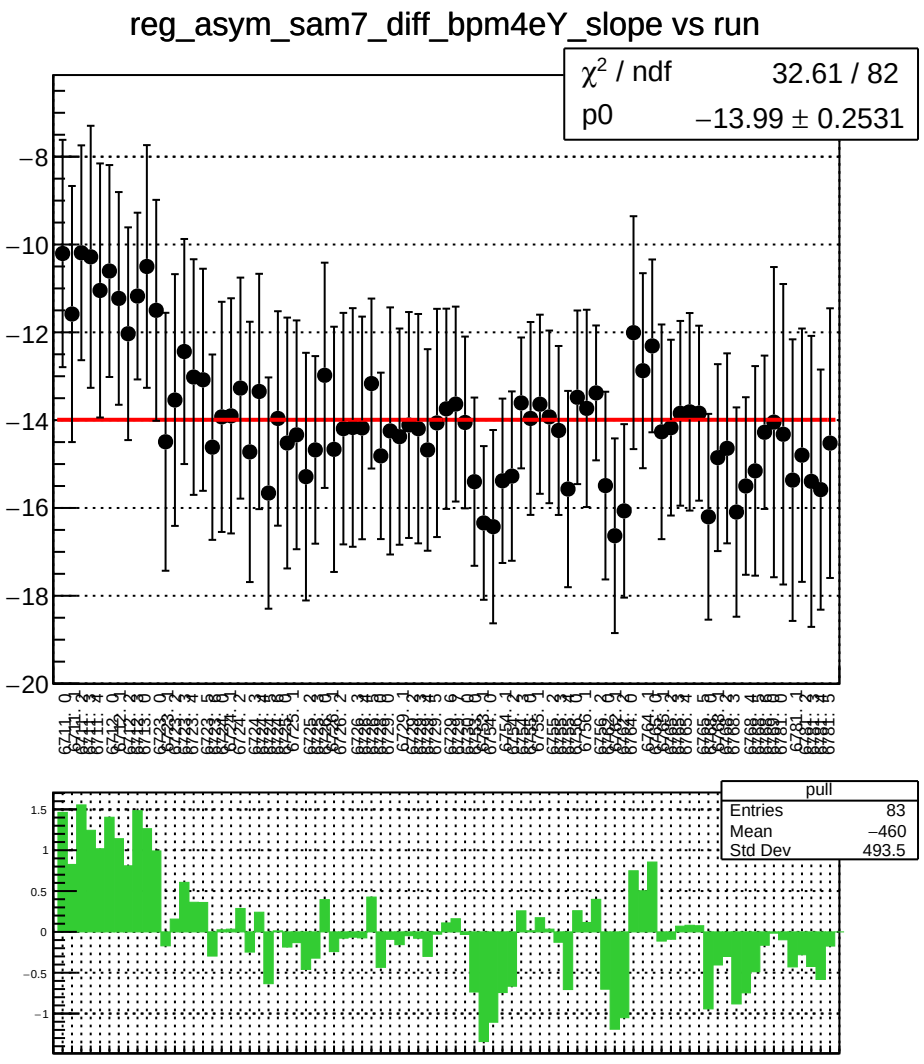

pull1D
Entries 83
Mean −0.02822
Std Dev 0.5179

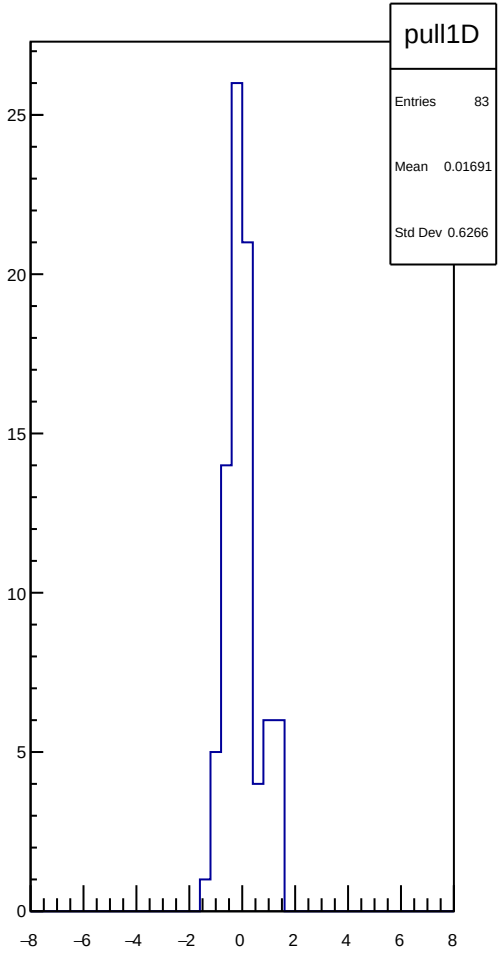

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 27.48 / 82
p0 17.04 ± 0.3301
pull
Entries 83
Mean 251.4
Std Dev 201.5
pull1D
Entries 83
Mean 0.02524
Std Dev 0.5749

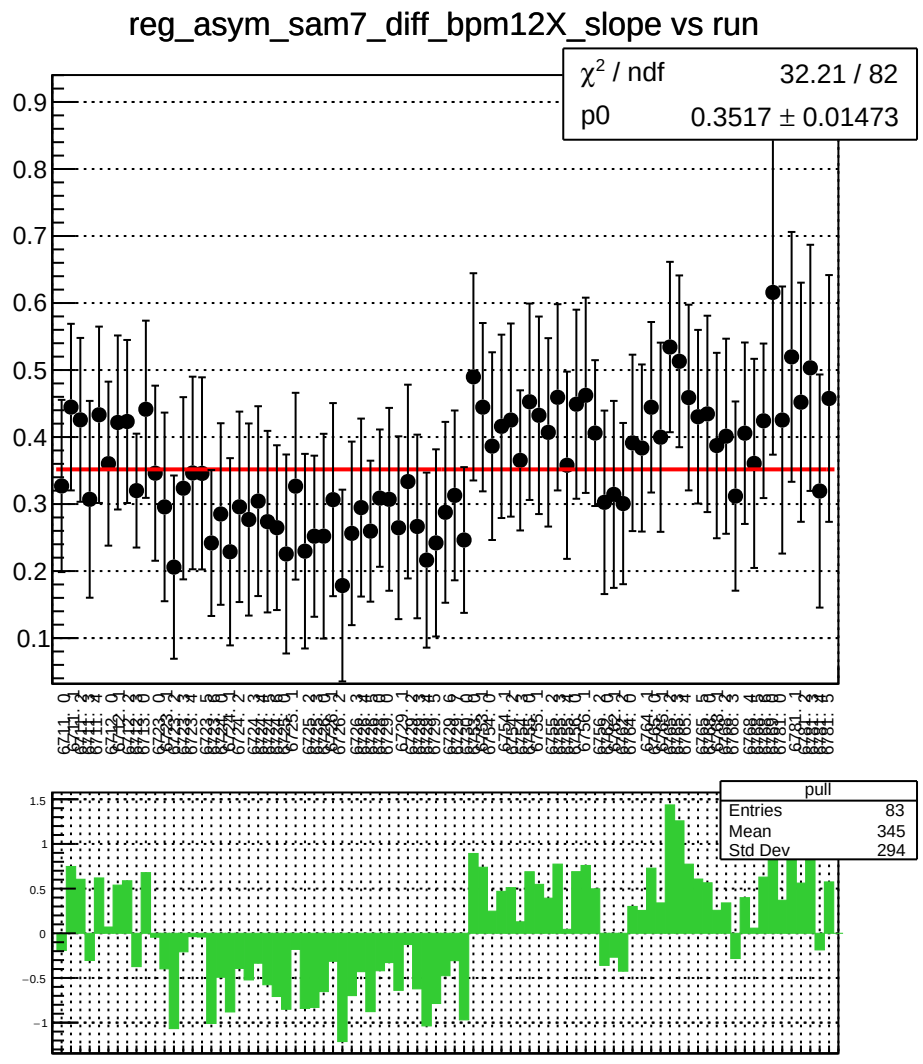

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 26.19 / 82
p0 7.258 ± 0.1991
pull
Entries 83
Mean −2098
Std Dev 2135
pull1D
Entries 83
Mean −0.003244
Std Dev 0.5617

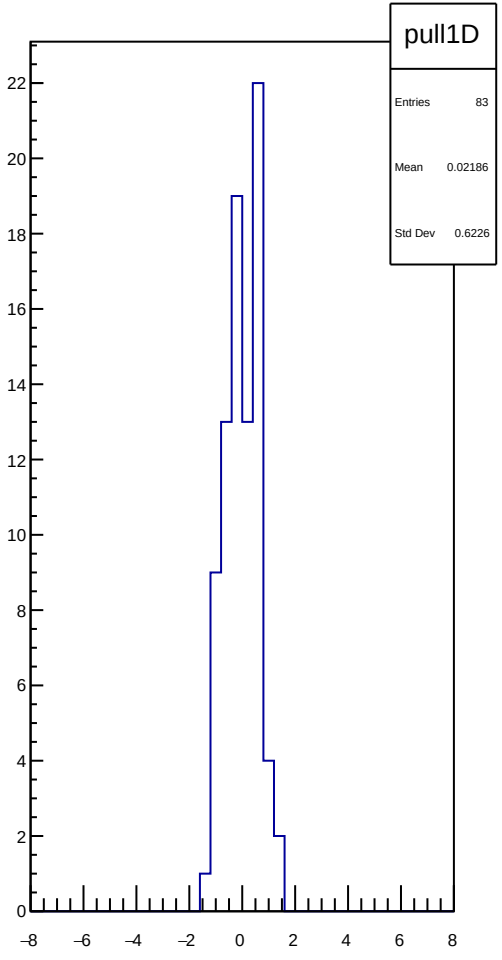

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 137 / 82
p0 −46.38 ± 0.3167
pull
Entries 83
Mean 221.9
Std Dev 174.2

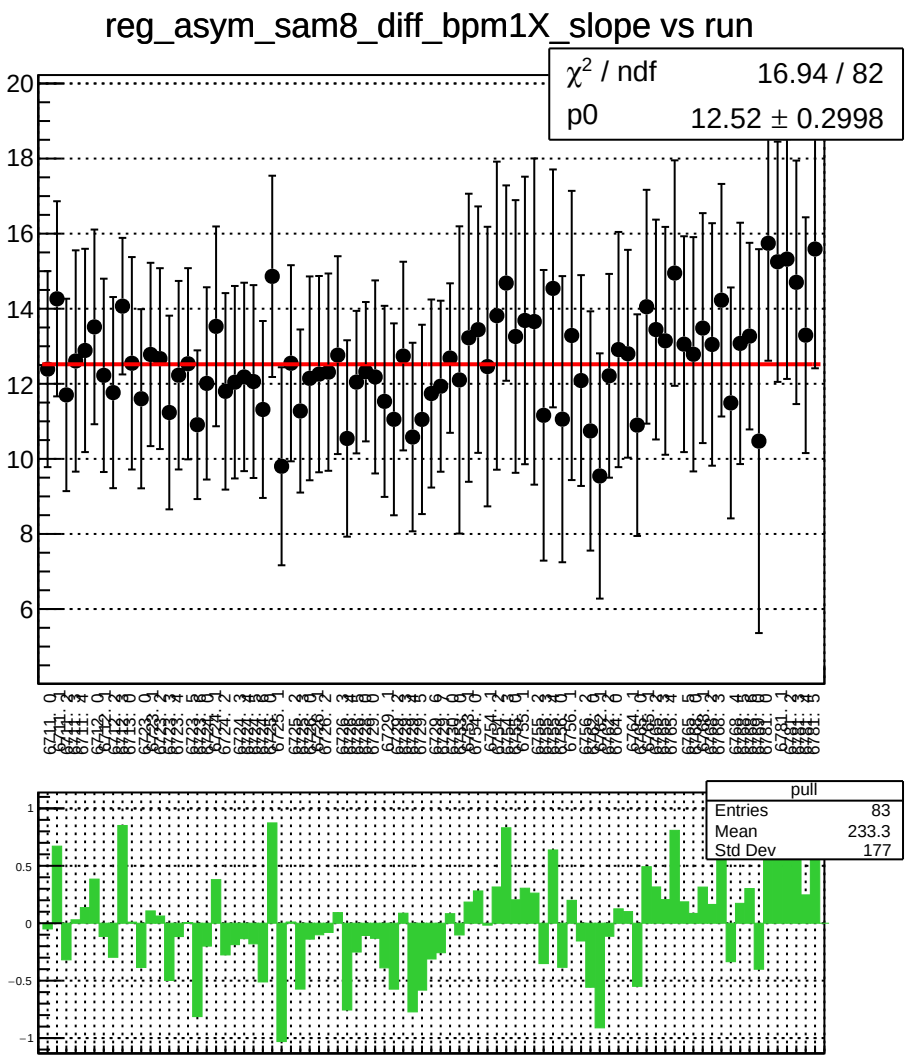

pull1D
Entries 83
Mean −0.1318
Std Dev 1.278

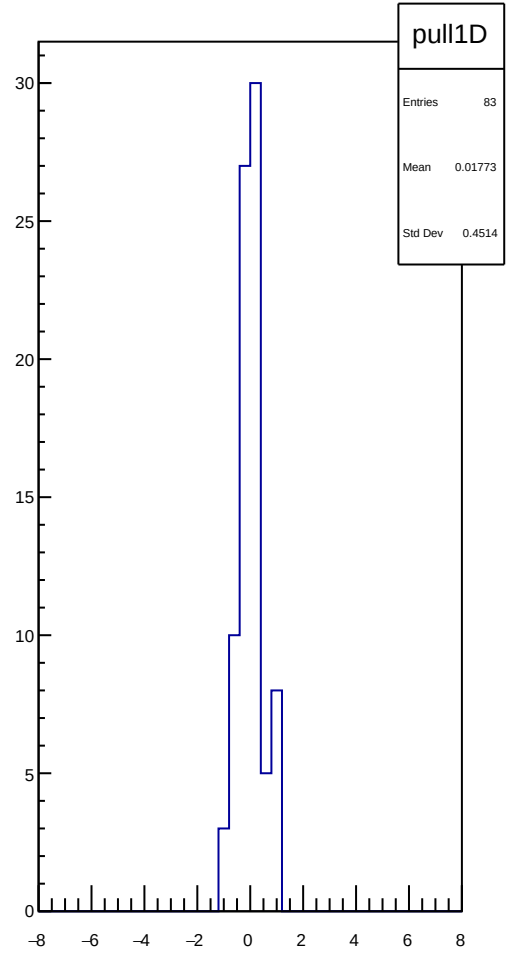

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 32.61 / 82
p0 −13.99 ± 0.2531
pull
Entries 83
Mean −460
Std Dev 493.5

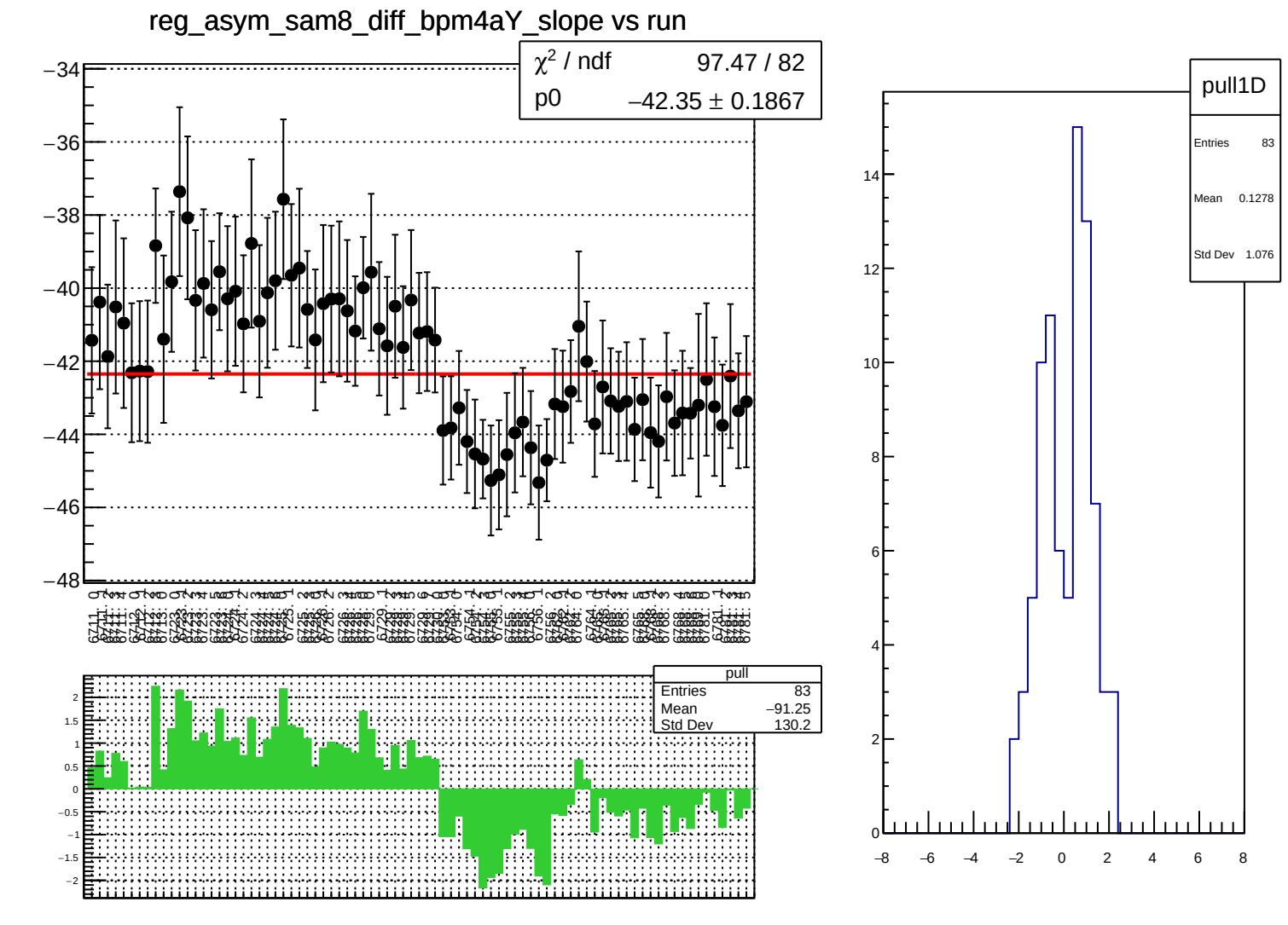

pull1D
Entries 83
Mean 0.01691
Std Dev 0.6266

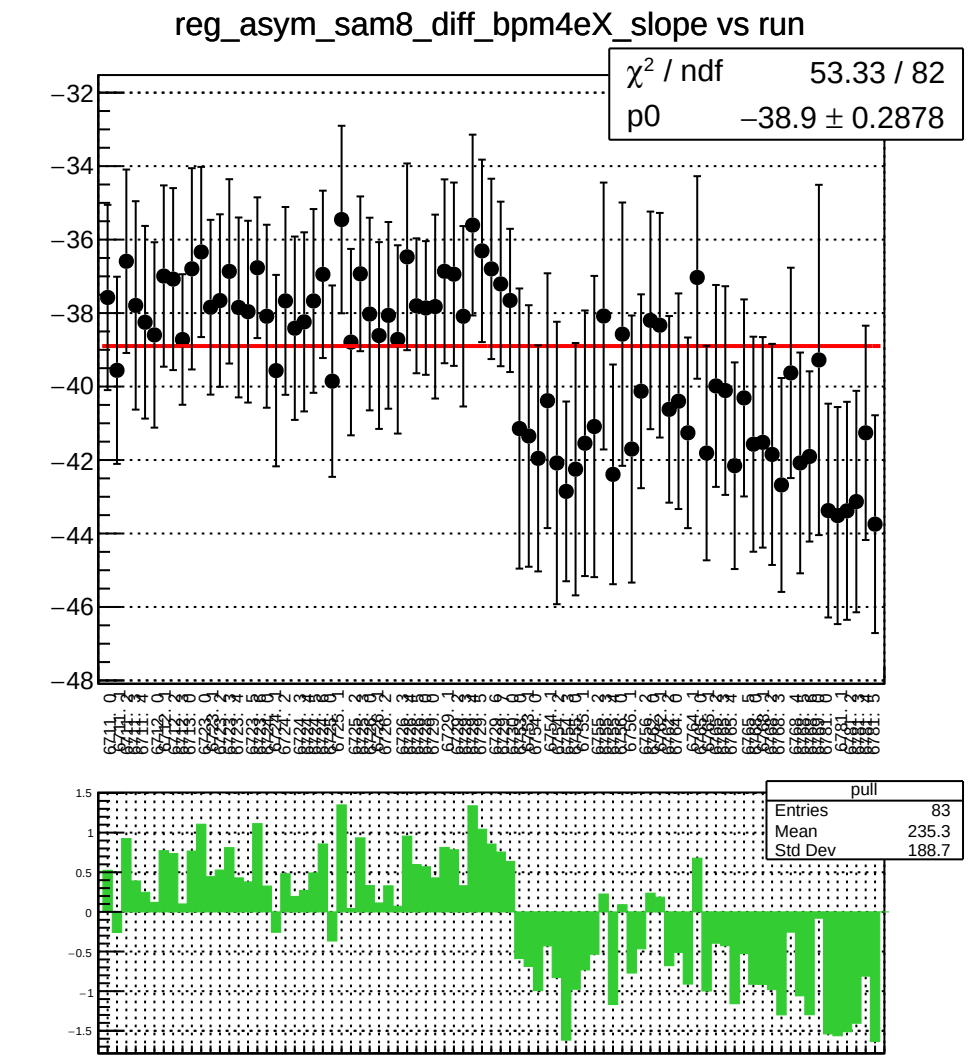

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 32.21 / 82
p0 0.3517 ± 0.01473
pull
Entries 83
Mean 345
Std Dev 294

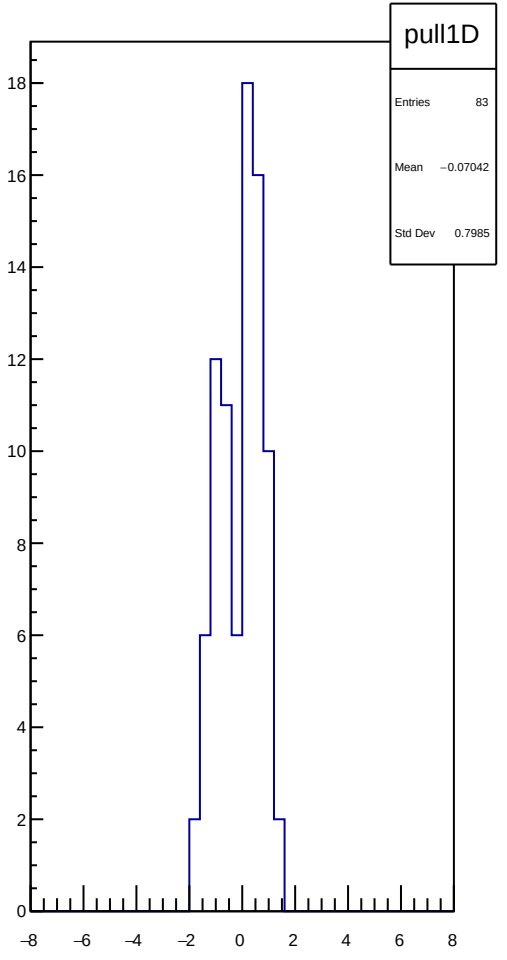

pull1D
Entries 83
Mean 0.02186
Std Dev 0.6226

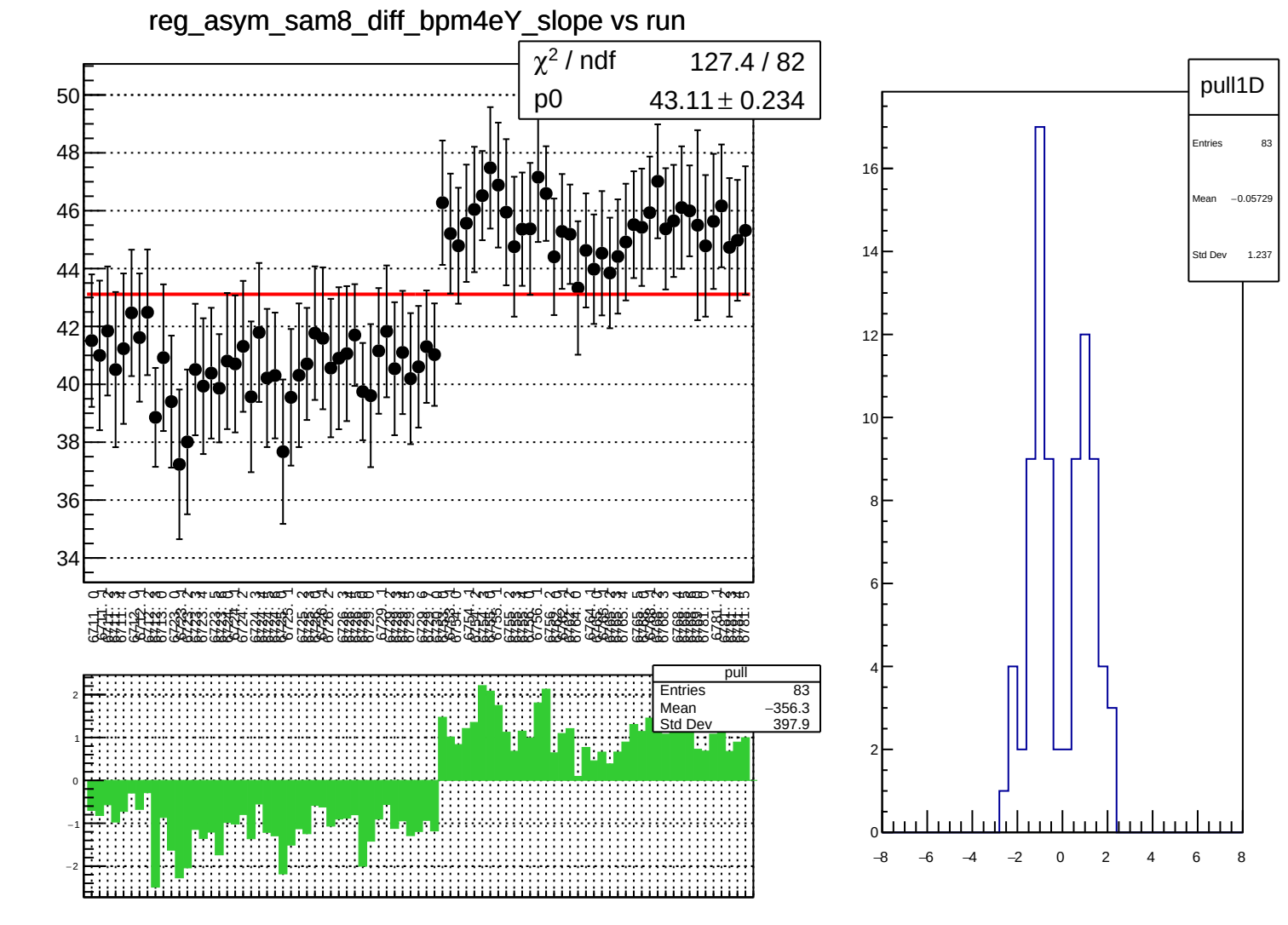

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 16.94 / 82
p0 12.52 ± 0.2998
pull
Entries 83
Mean 233.3
Std Dev 177

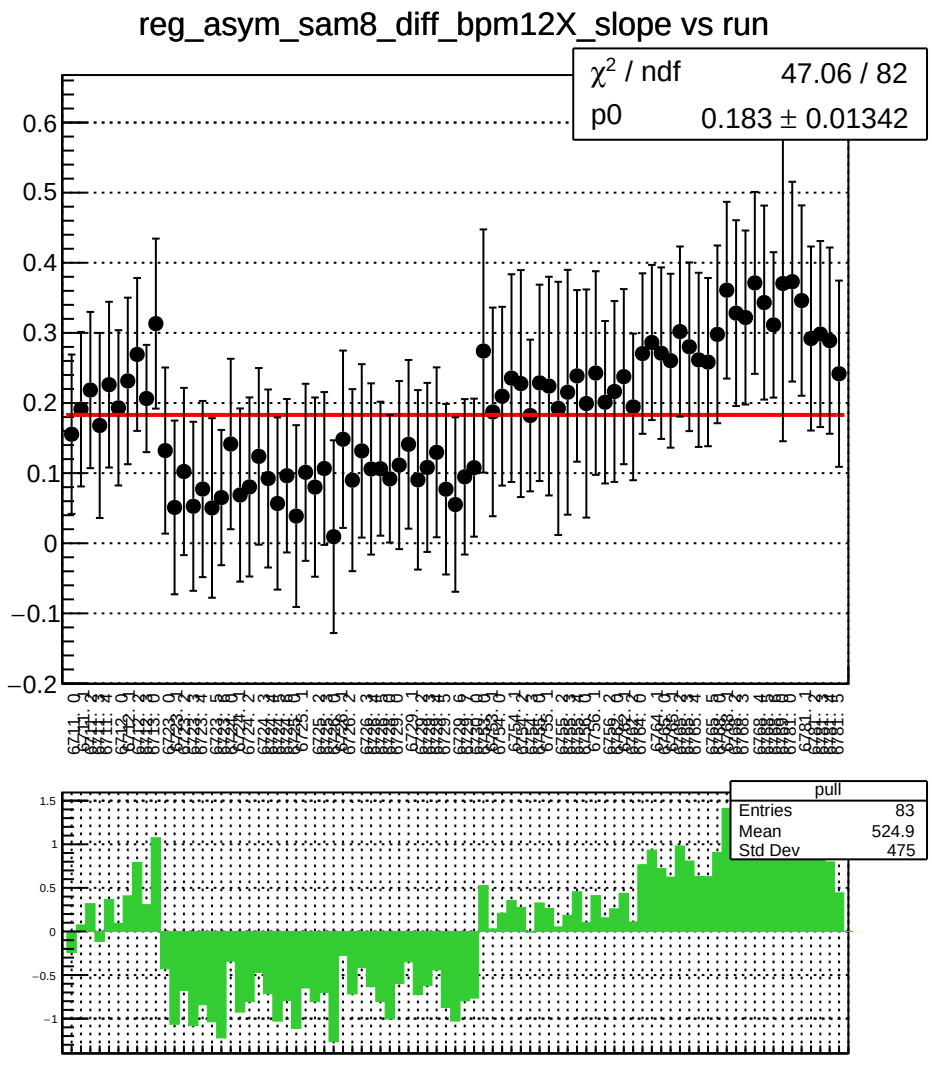

pull1D
Entries 83
Mean 0.01773
Std Dev 0.4514

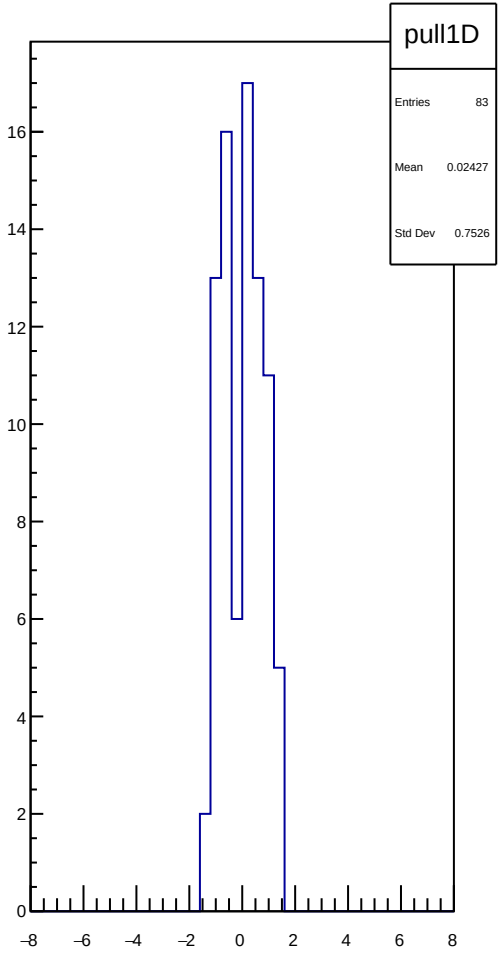

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 97.47 / 82
p0 −42.35 ± 0.1867
pull
Entries 83
Mean −91.25
Std Dev 130.2
pull1D
Entries 83
Mean 0.1278
Std Dev 1.076

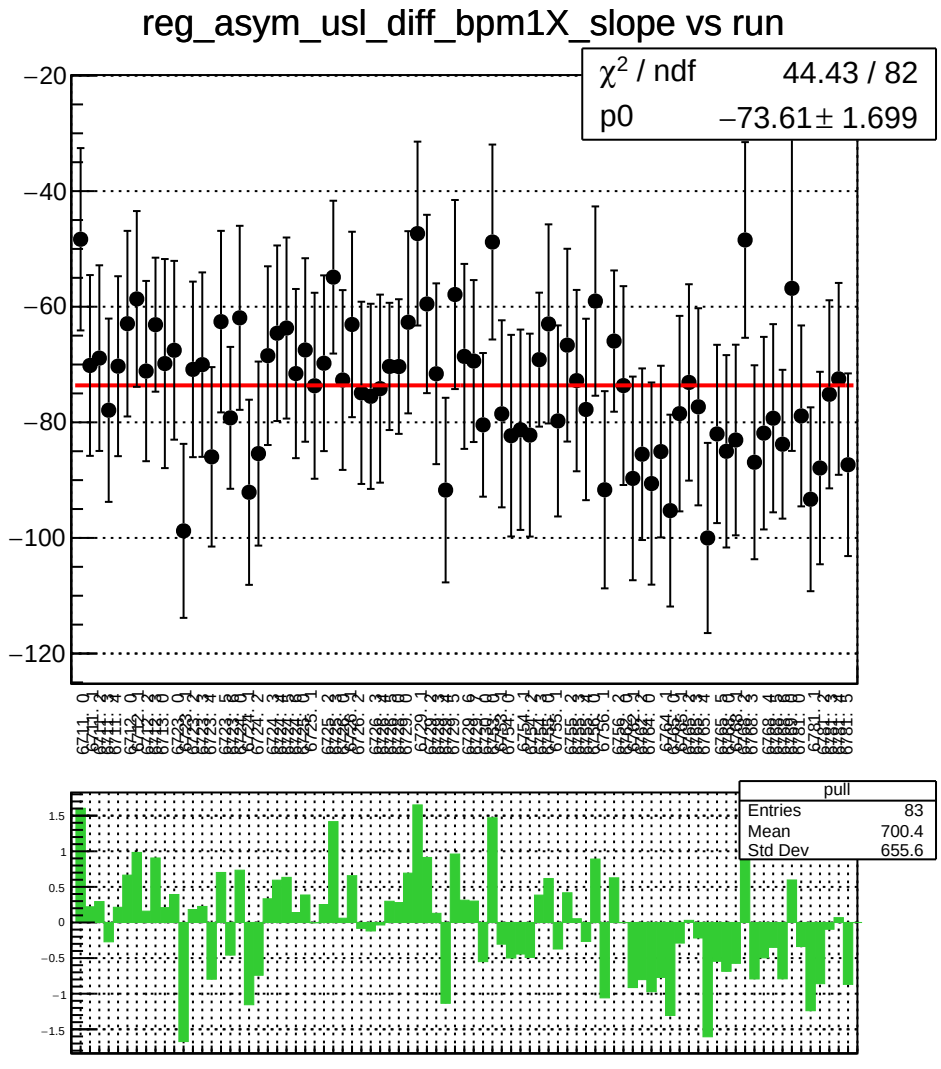

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 53.33 / 82
p0 −38.9 ± 0.2878
pull
Entries 83
Mean 235.3
Std Dev 188.7

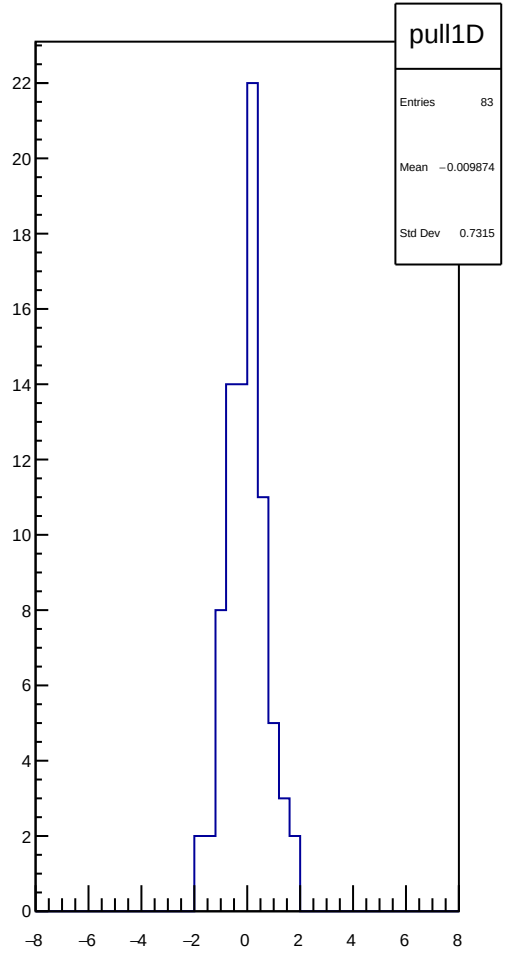

pull1D
Entries 83
Mean −0.07042
Std Dev 0.7985

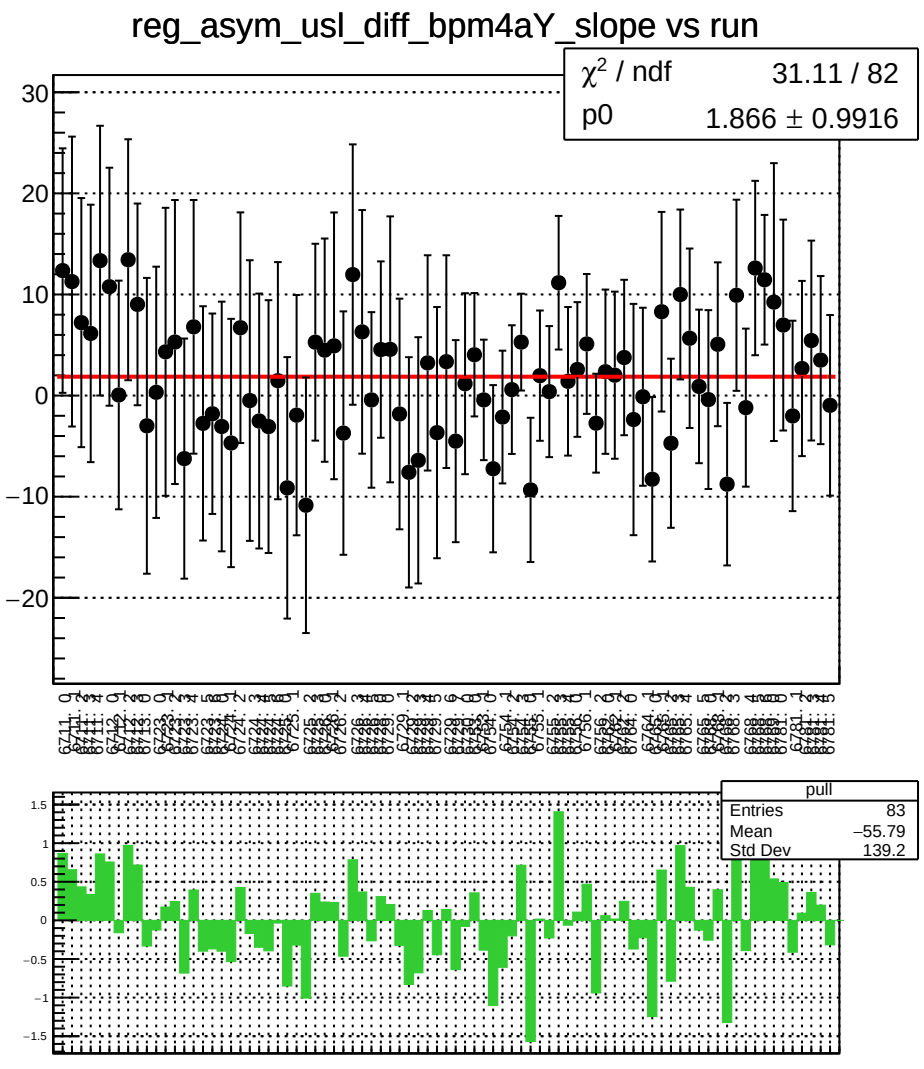

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 127.4 / 82
p0 43.11 ± 0.234
pull
Entries 83
Mean −356.3
Std Dev 397.9
pull1D
Entries 83
Mean −0.05729
Std Dev 1.237

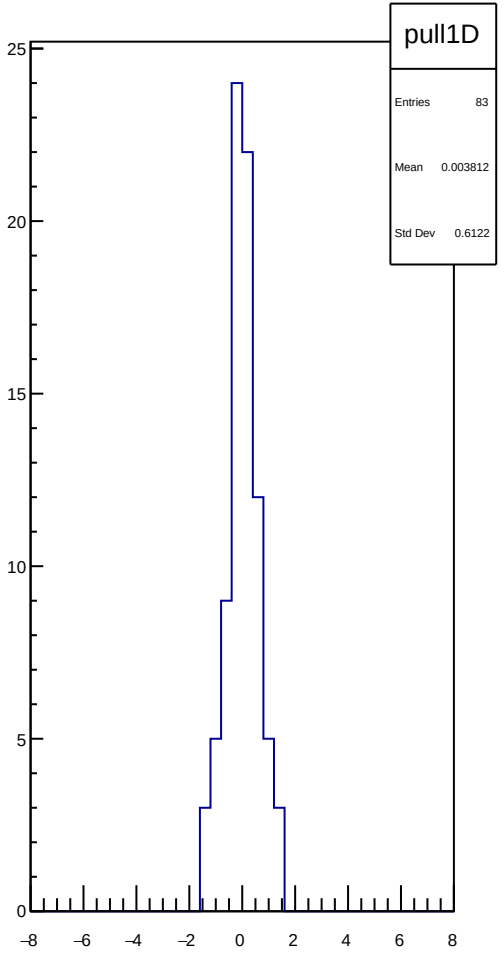

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 47.06 / 82
p0 0.183 ± 0.01342
pull
Entries 83
Mean 524.9
Std Dev 475

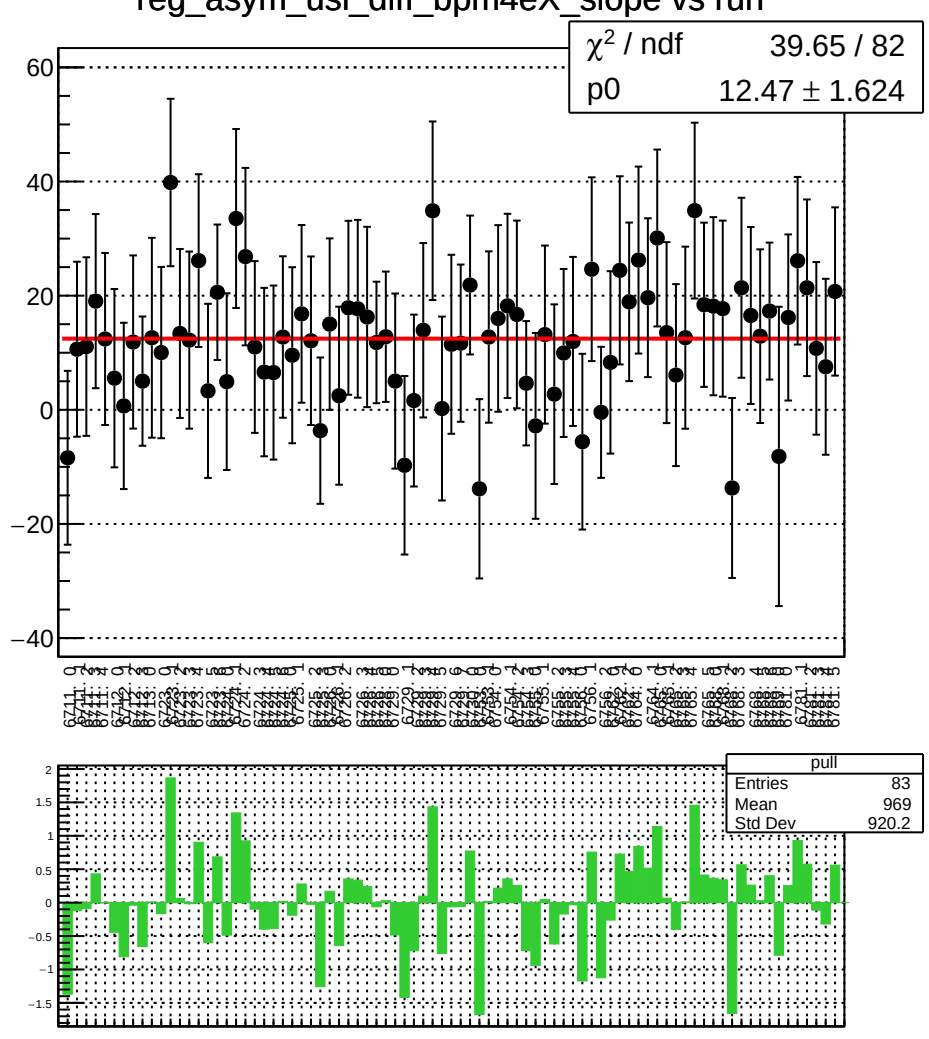

pull1D
Entries 83
Mean 0.02427
Std Dev 0.7526

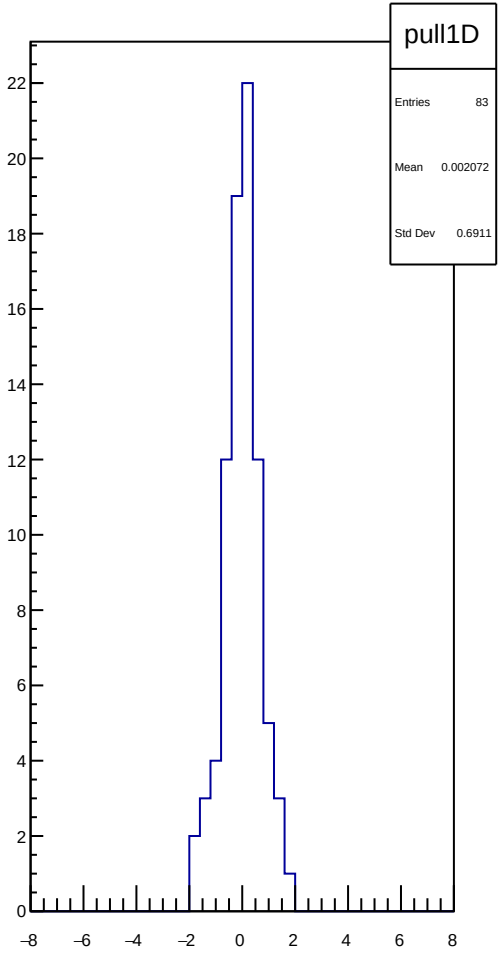

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 44.43 / 82
p0 −73.61 ± 1.699
−20
−40
−60
−80
−100
−120
pull
Entries 83
Mean 700.4
Std Dev 655.6
1.5
1
0.5
0
−0.5
−1
−1.5

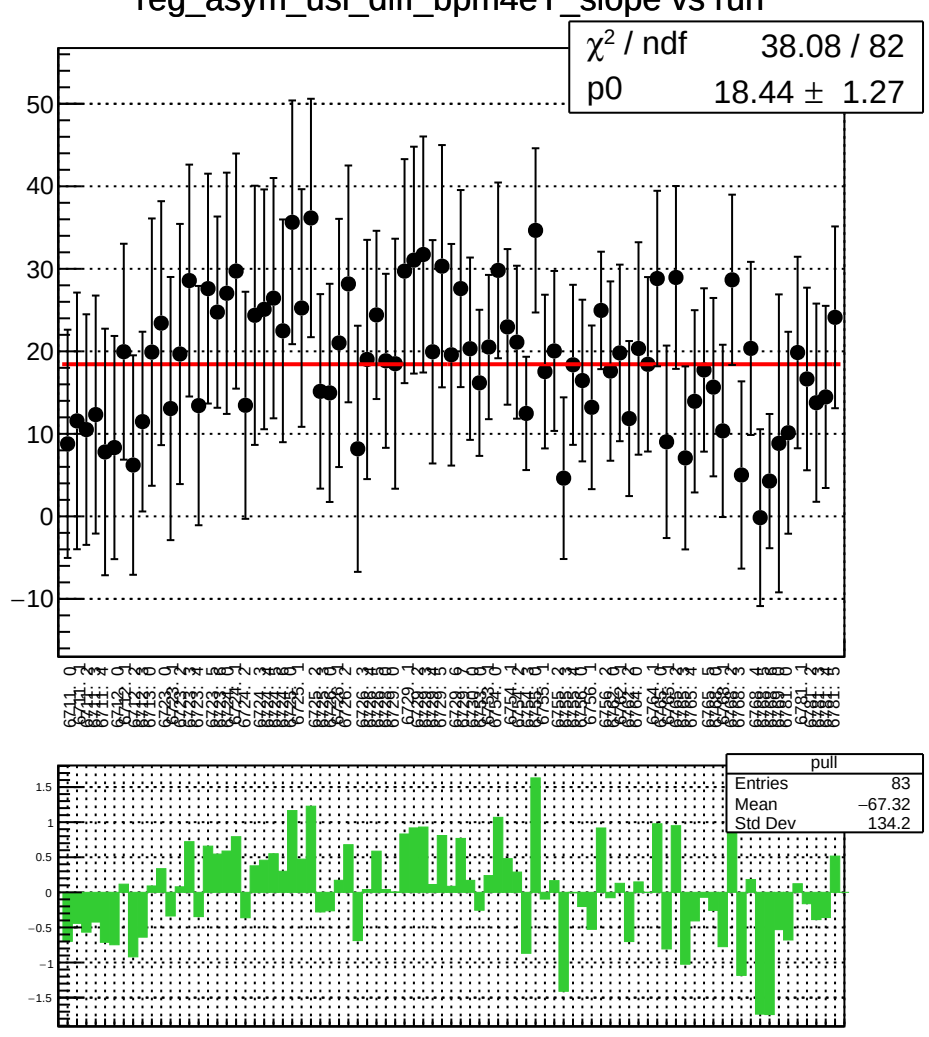

pull1D
Entries 83
Mean −0.009874
Std Dev 0.7315
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

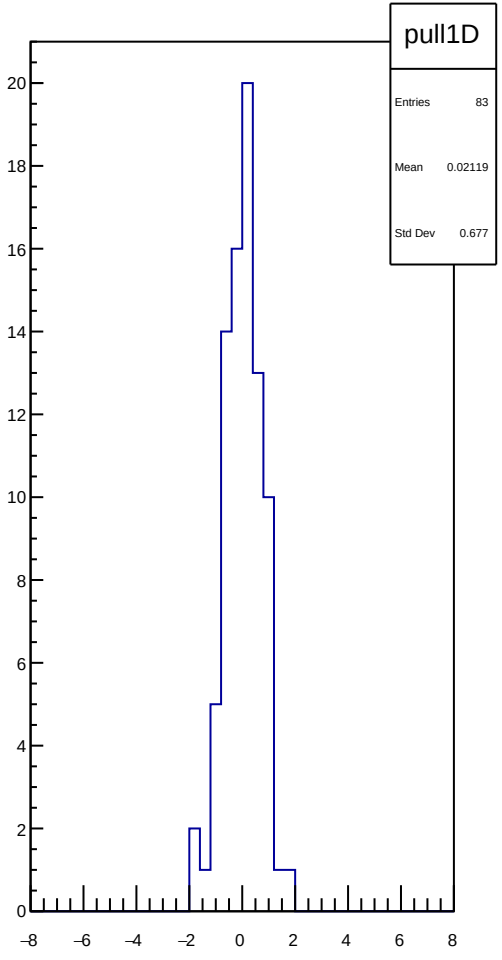

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 31.11 / 82
p0 1.866 ± 0.9916
pull
Entries 83
Mean −55.79
Std Dev 139.2

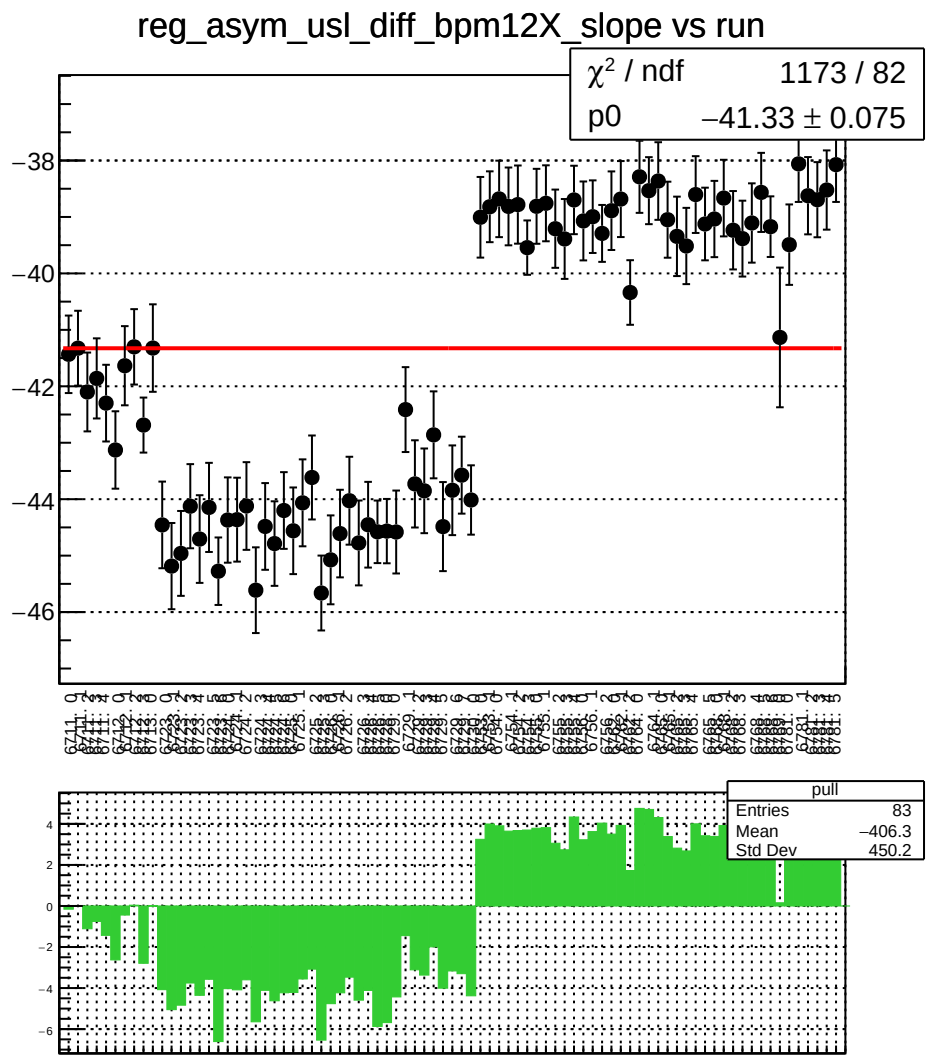

pull1D
Entries 83
Mean 0.003812
Std Dev 0.6122

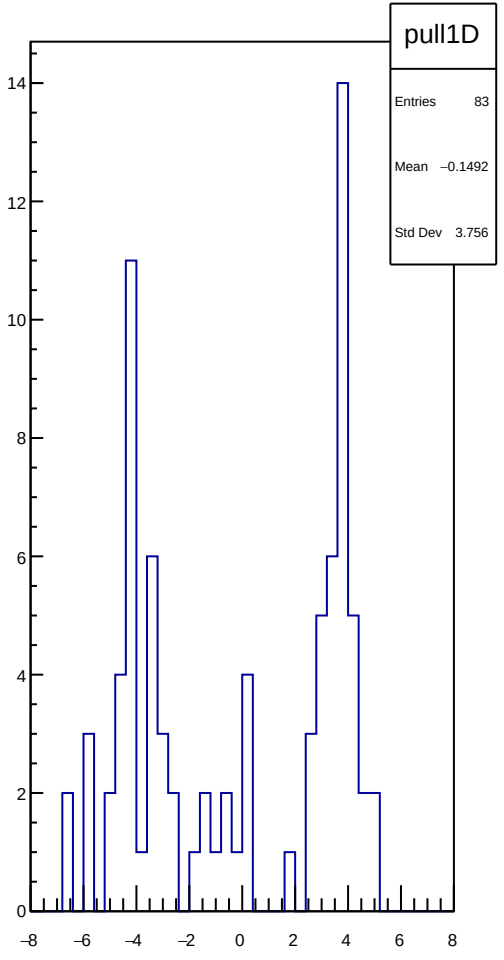

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 39.65 / 82
p0 12.47 ± 1.624
pull
Entries 83
Mean 969
Std Dev 920.2

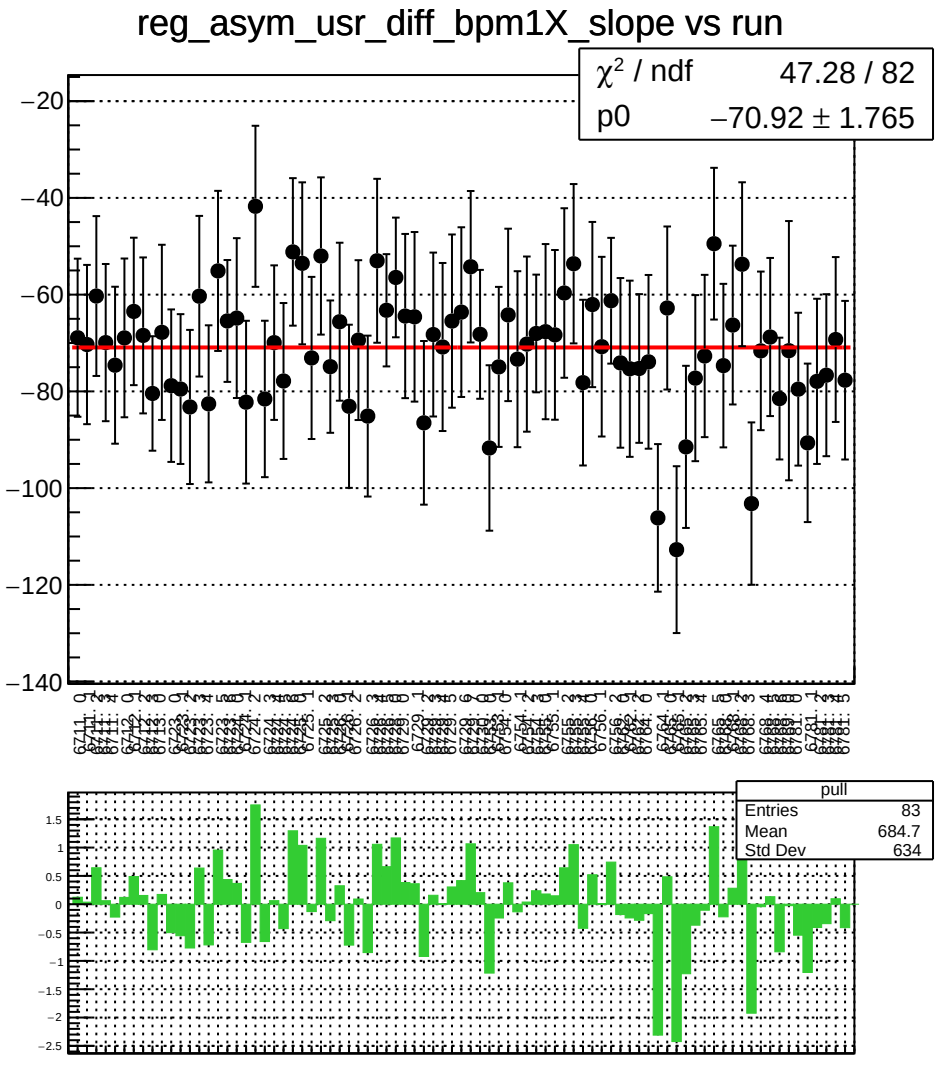

pull1D
Entries 83
Mean 0.002072
Std Dev 0.6911

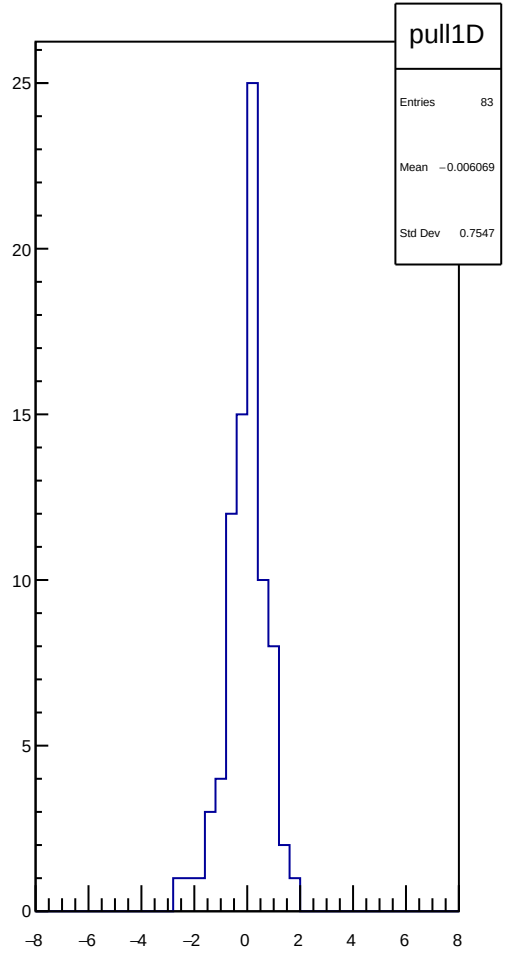

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 38.08 / 82
p0 18.44 ± 1.27
pull
Entries 83
Mean −67.32
Std Dev 134.2

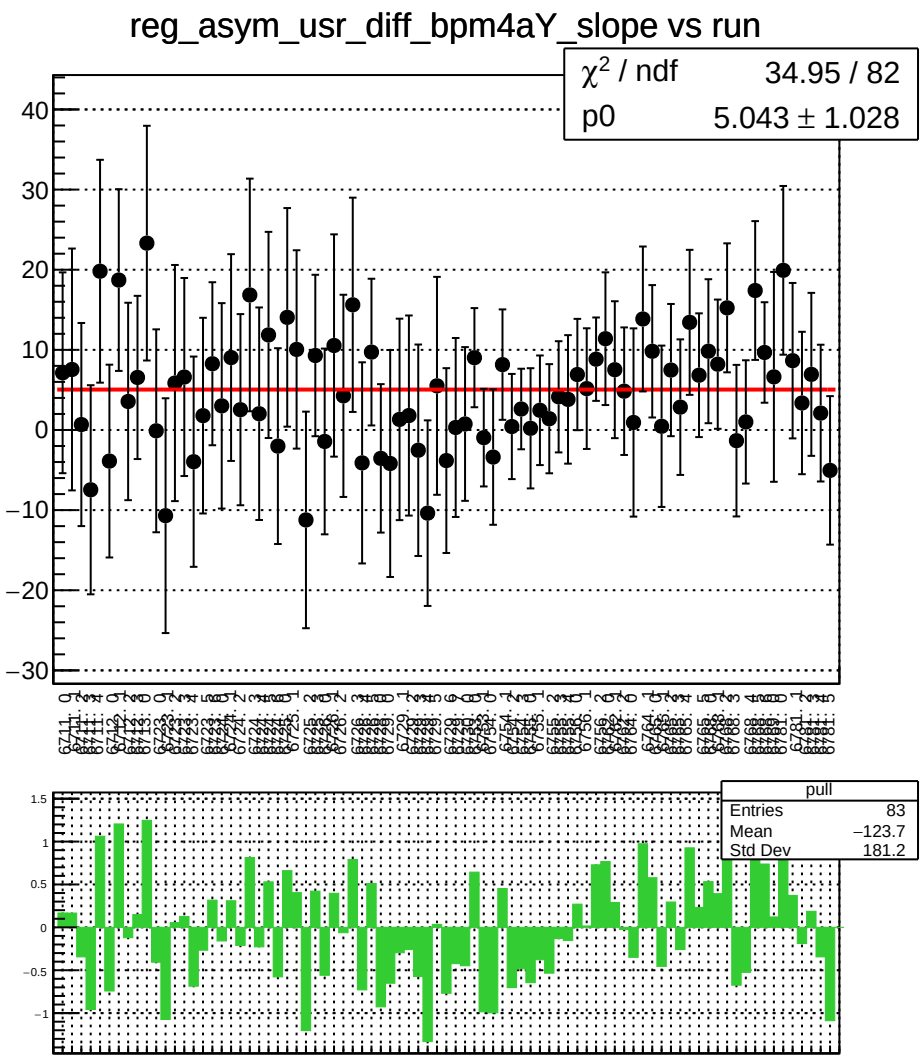

pull1D
Entries 83
Mean 0.02119
Std Dev 0.677

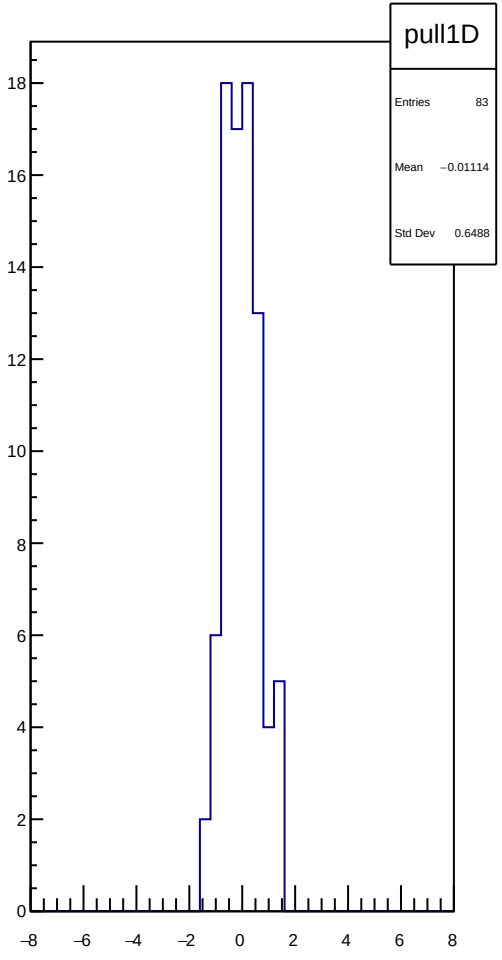

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 1173 / 82
p0 −41.33 ± 0.075
−38
−40
−42
−44
−46
pull
Entries 83
Mean −406.3
Std Dev 450.2
4
2
0
−2
−4
−6

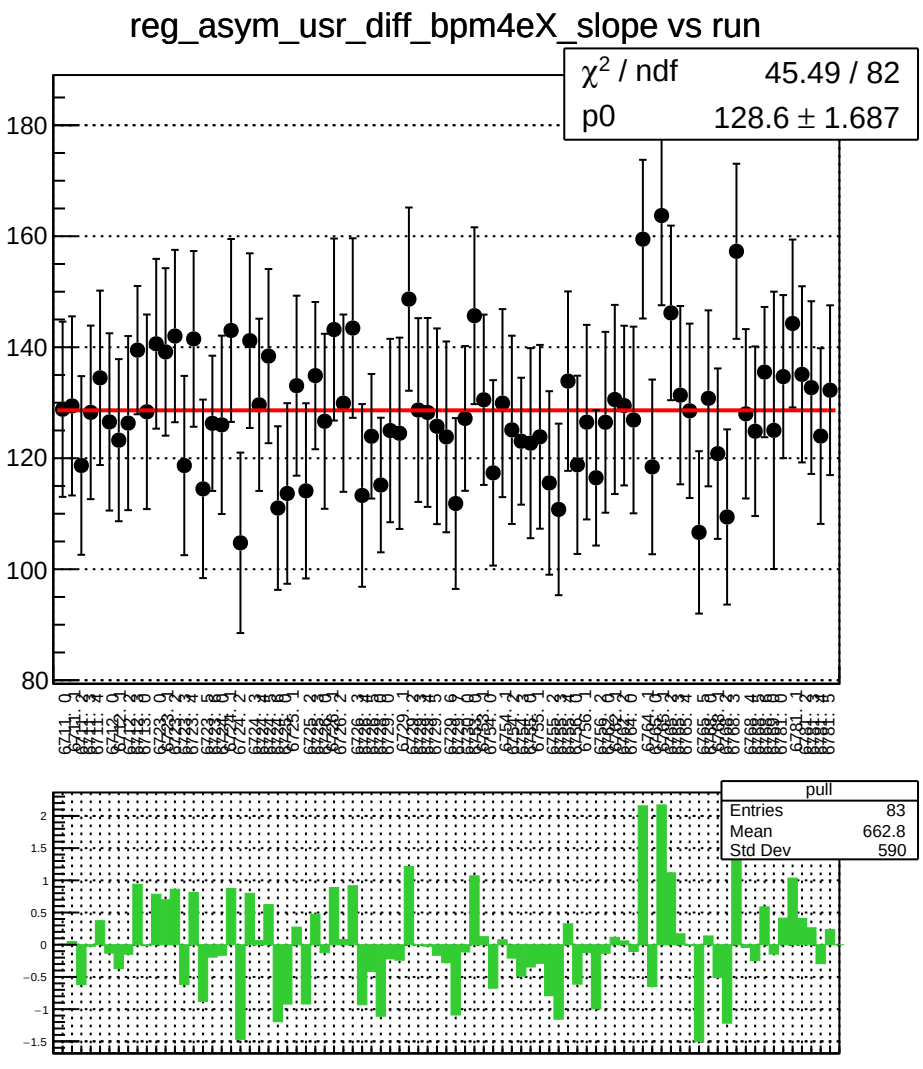

pull1D
Entries 83
Mean −0.1492
Std Dev 3.756
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

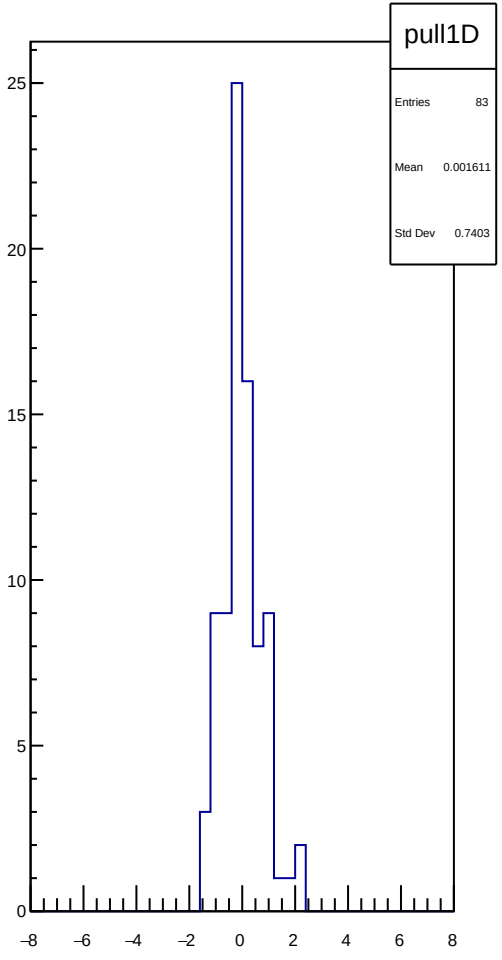

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 47.28 / 82
p0 −70.92 ± 1.765
pull
Entries 83
Mean 684.7
Std Dev 634

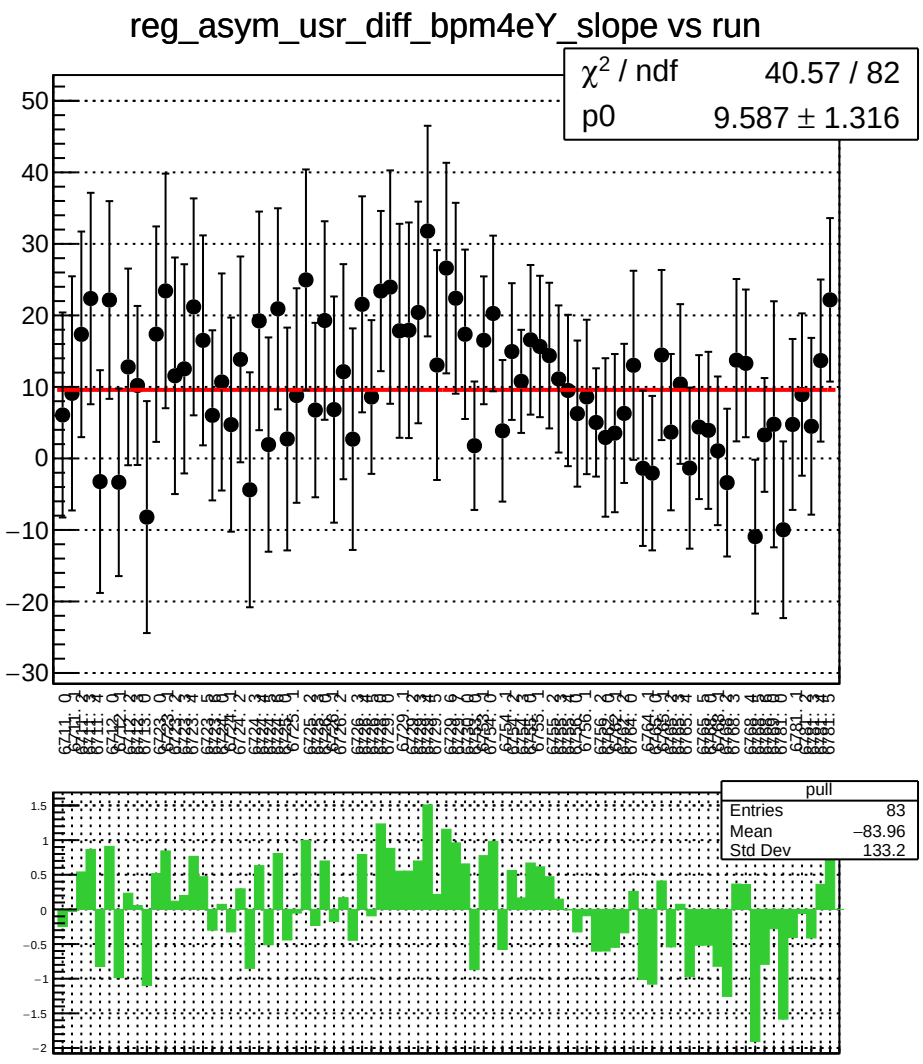

pull1D
Entries 83
Mean −0.006069
Std Dev 0.7547

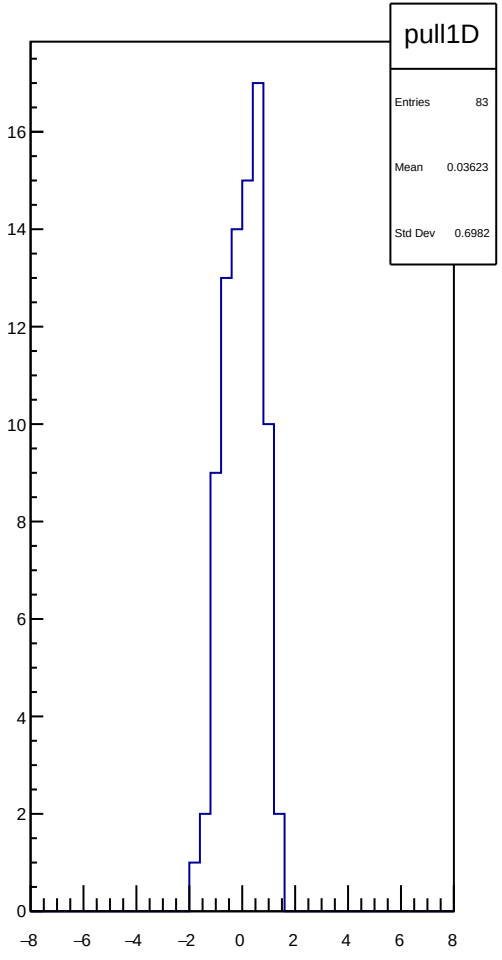

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 34.95 / 82
p0 5.043 ± 1.028
pull
Entries 83
Mean −123.7
Std Dev 181.2

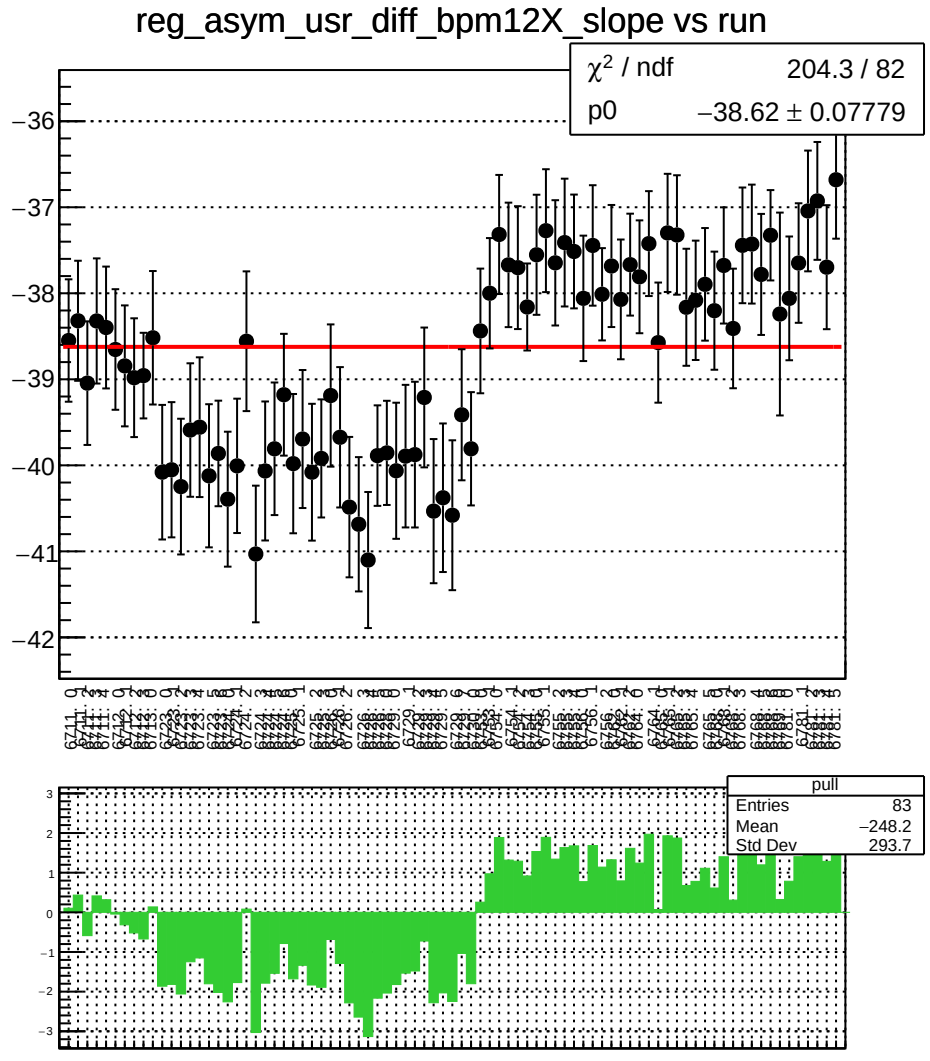

pull1D
Entries 83
Mean −0.01114
Std Dev 0.6488

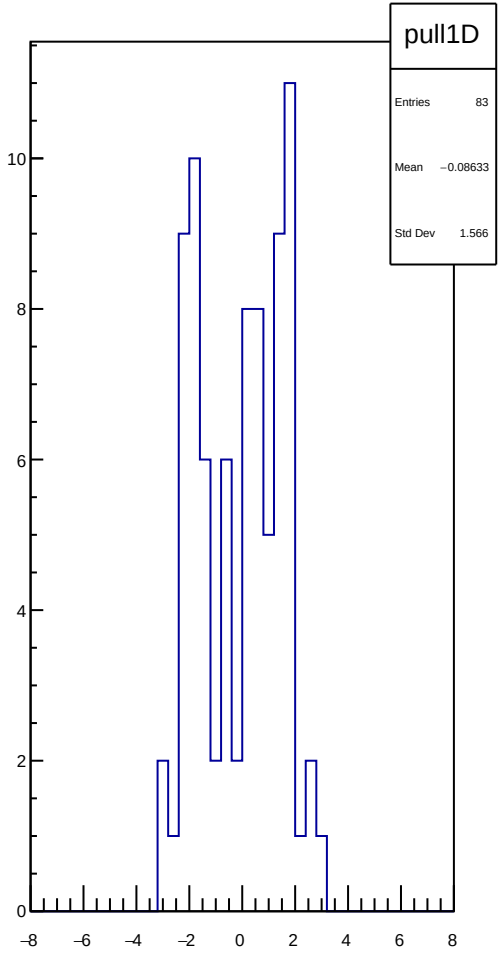

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 45.49 / 82
p0 128.6 ± 1.687
pull
Entries 83
Mean 662.8
Std Dev 590

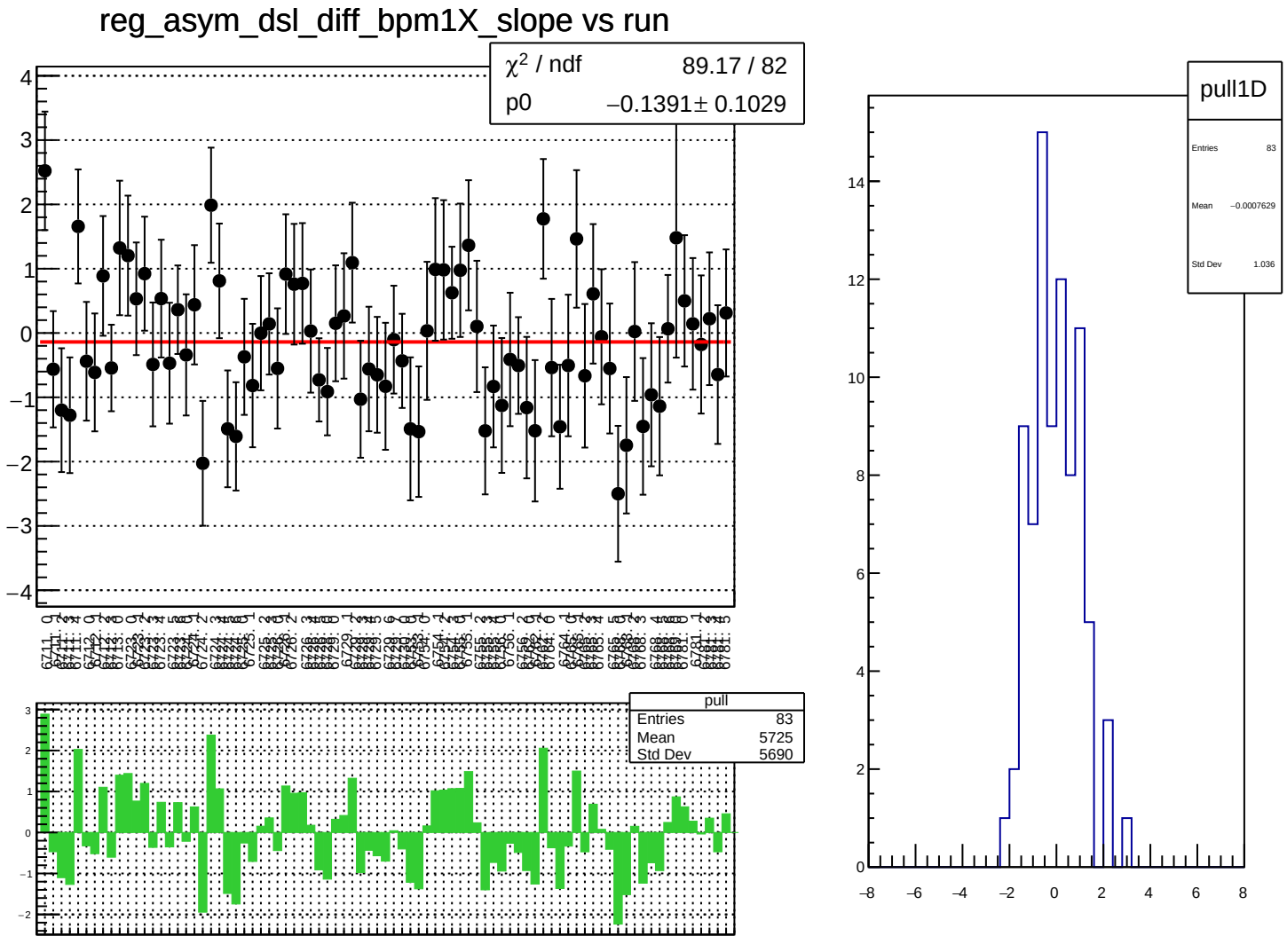

pull1D
Entries 83
Mean 0.001611
Std Dev 0.7403

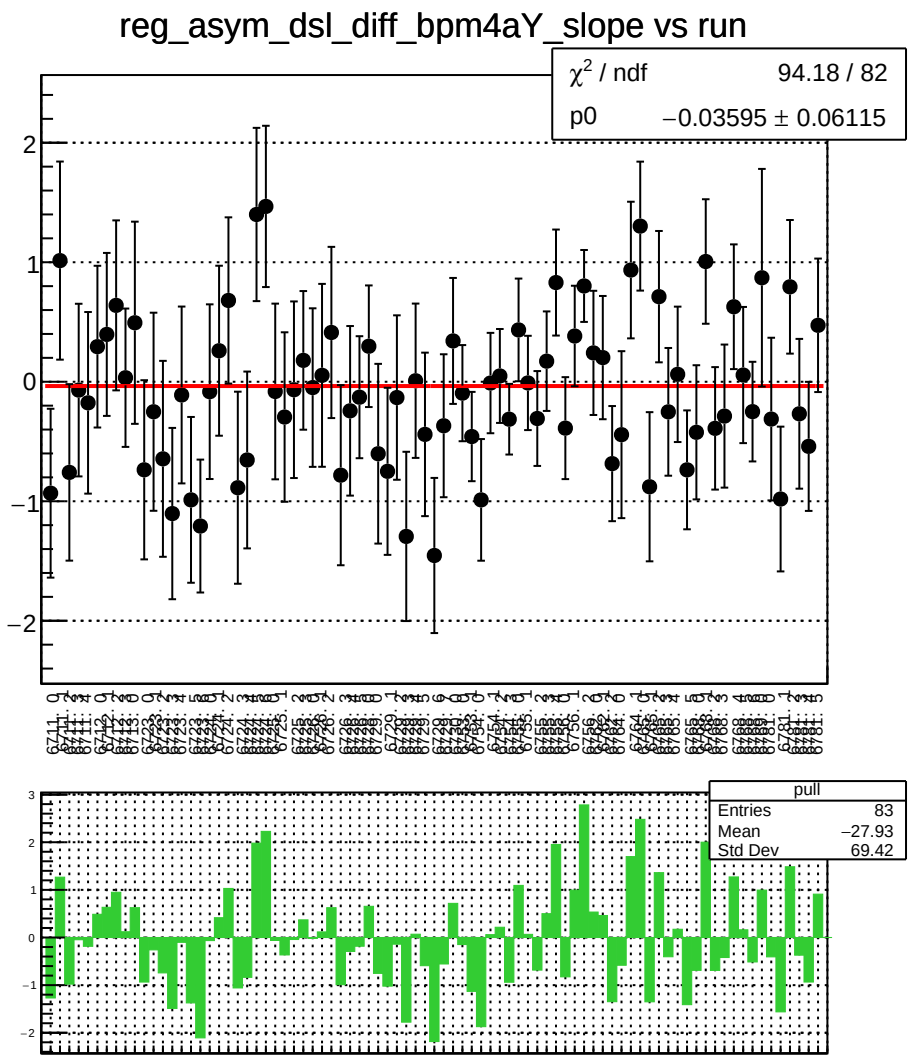

reg_asym_usr_diff_bpm4eY_slope vs run
χ^2 / ndf 40.57 / 82
p0 9.587 ± 1.316
pull
Entries 83
Mean −83.96
Std Dev 133.2

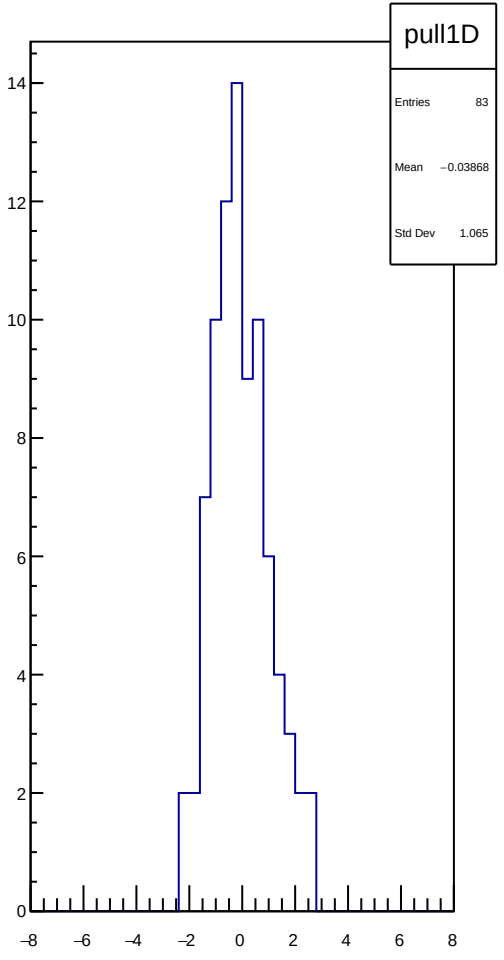

pull1D
Entries 83
Mean 0.03623
Std Dev 0.6982

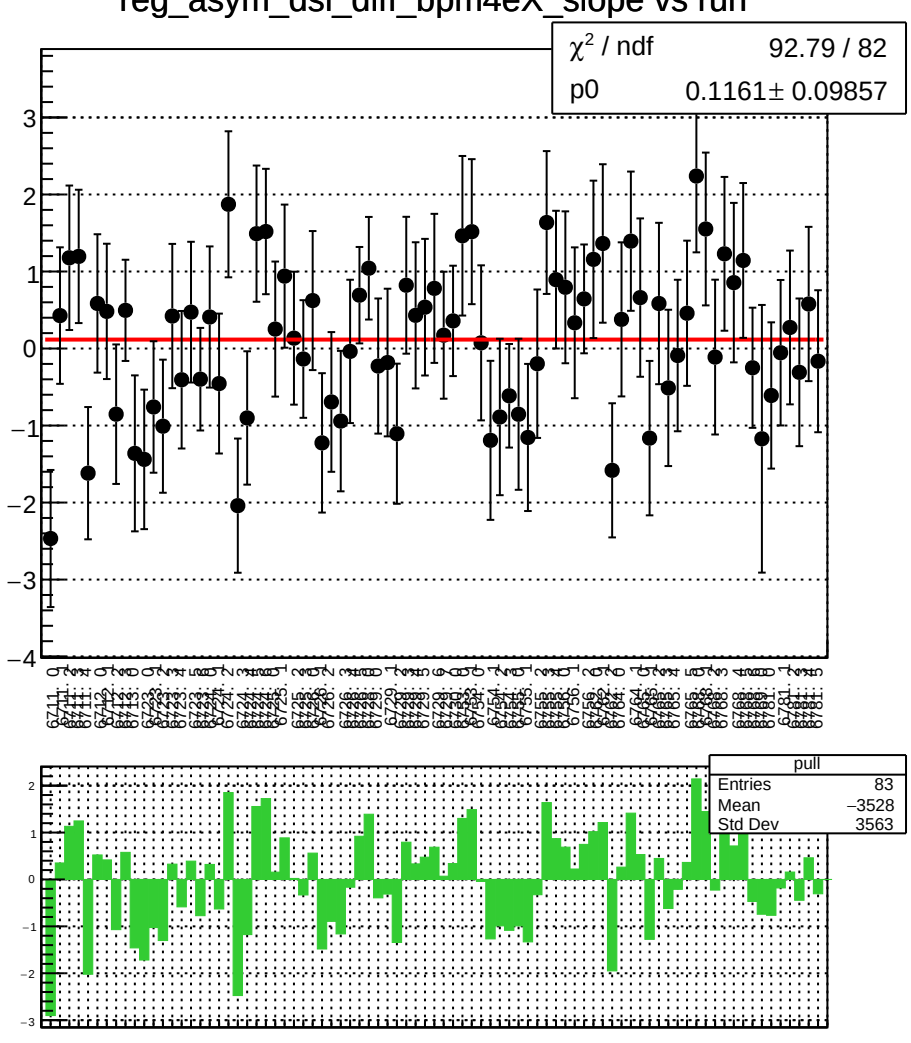

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 204.3 / 82
p0 −38.62 ± 0.07779
pull
Entries 83
Mean −248.2
Std Dev 293.7

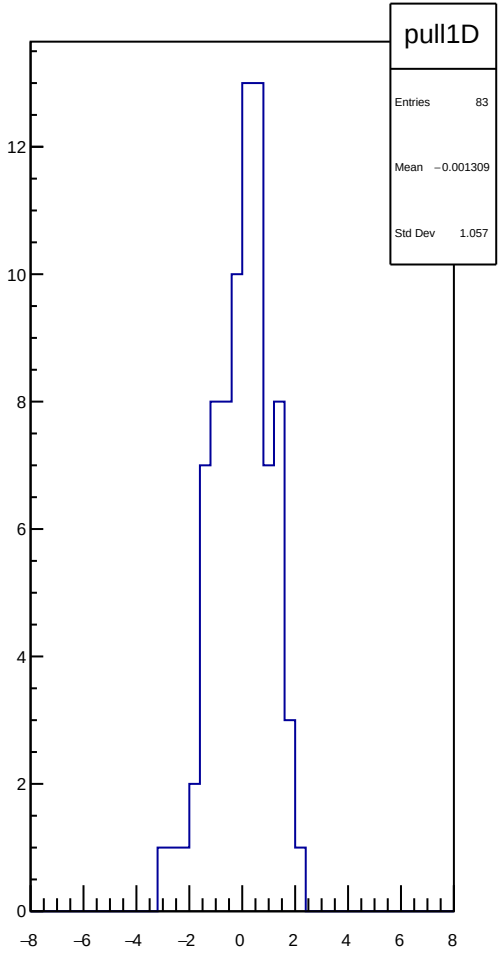

pull1D
Entries 83
Mean −0.08633
Std Dev 1.566

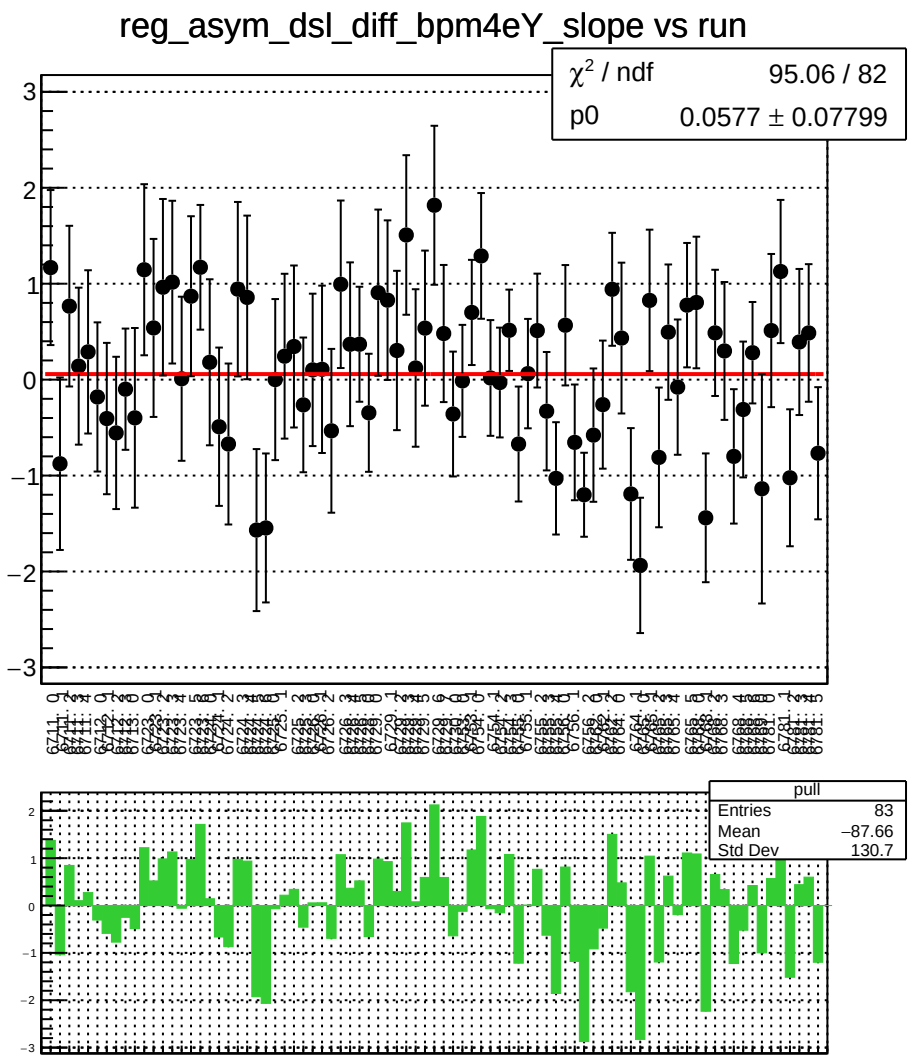

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 89.17 / 82
p0 −0.1391± 0.1029
pull
Entries 83
Mean 5725
Std Dev 5690
pull1D
Entries 83
Mean −0.0007629
Std Dev 1.036

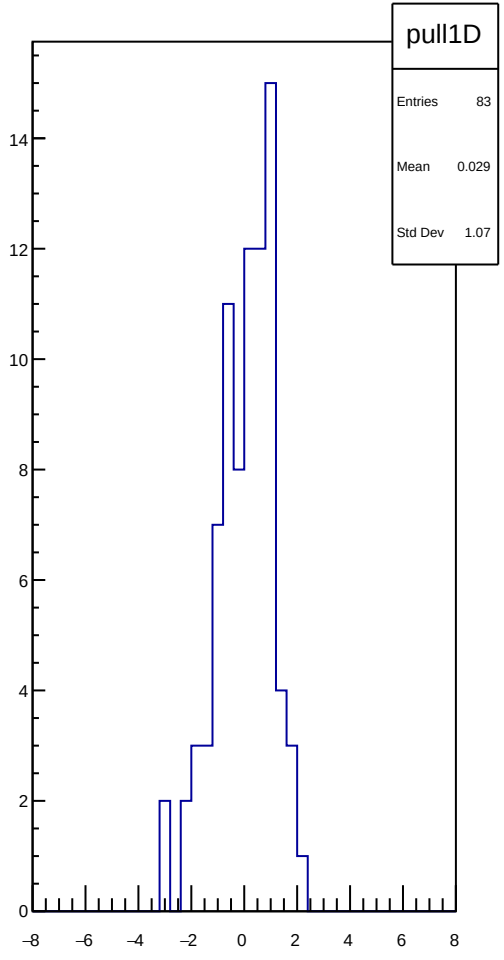

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 94.18 / 82
p0 −0.03595 ± 0.06115
pull
Entries 83
Mean −27.93
Std Dev 69.42

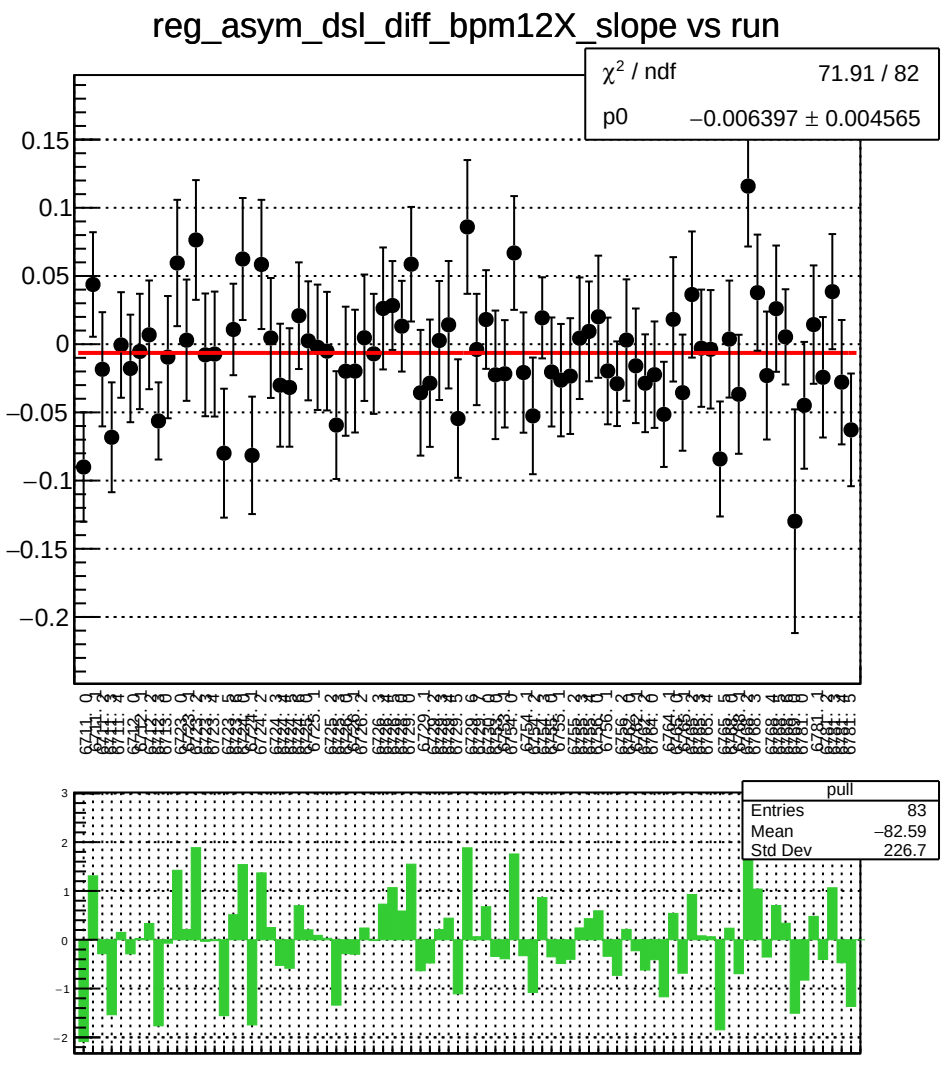

pull1D
Entries 83
Mean −0.03868
Std Dev 1.065

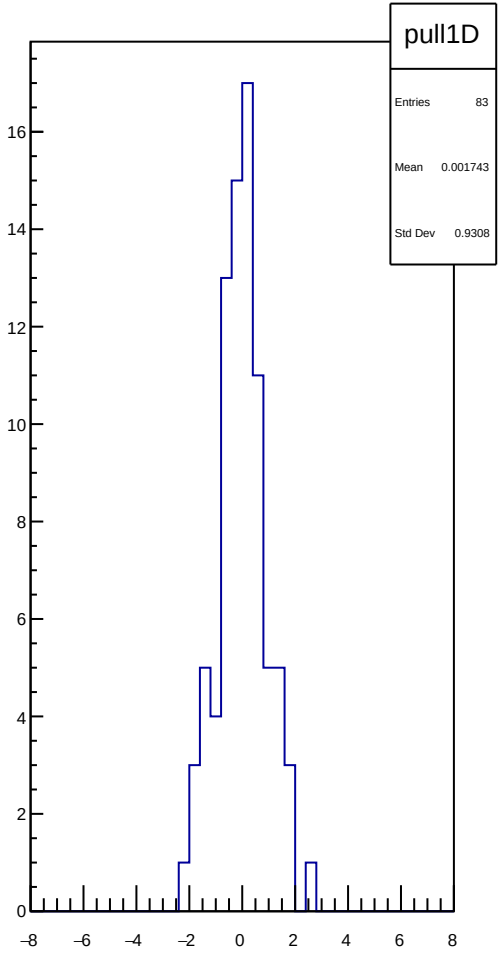

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 92.79 / 82
p0 0.1161± 0.09857
pull
Entries 83
Mean −3528
Std Dev 3563

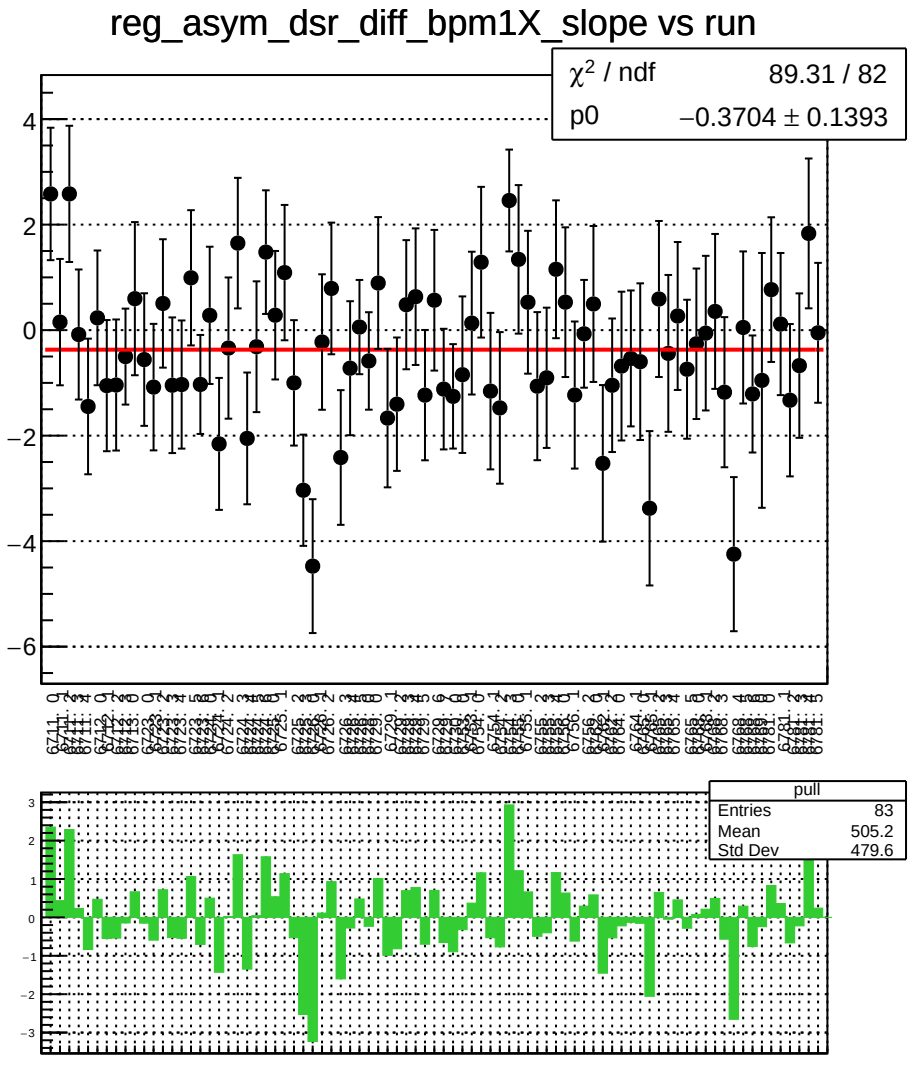

pull1D
Entries 83
Mean −0.001309
Std Dev 1.057

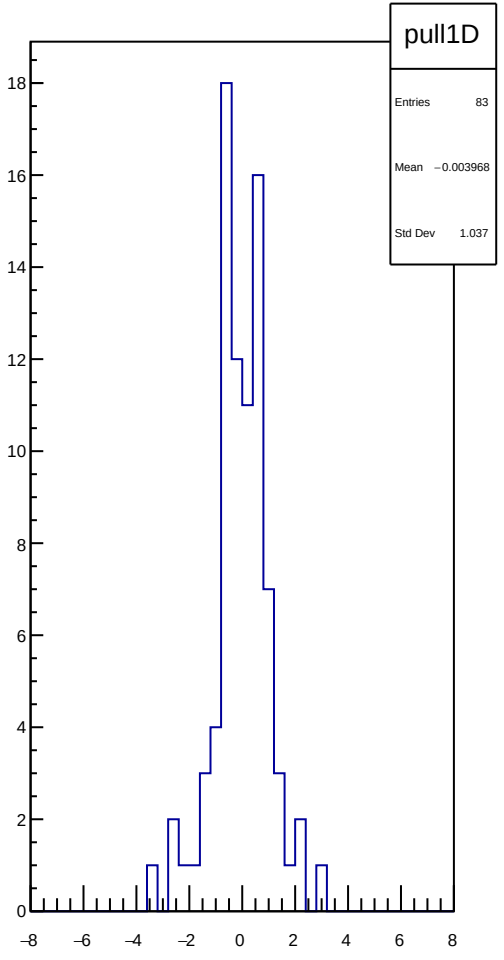

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 95.06 / 82
p0 0.0577 ± 0.07799
pull
Entries 83
Mean −87.66
Std Dev 130.7

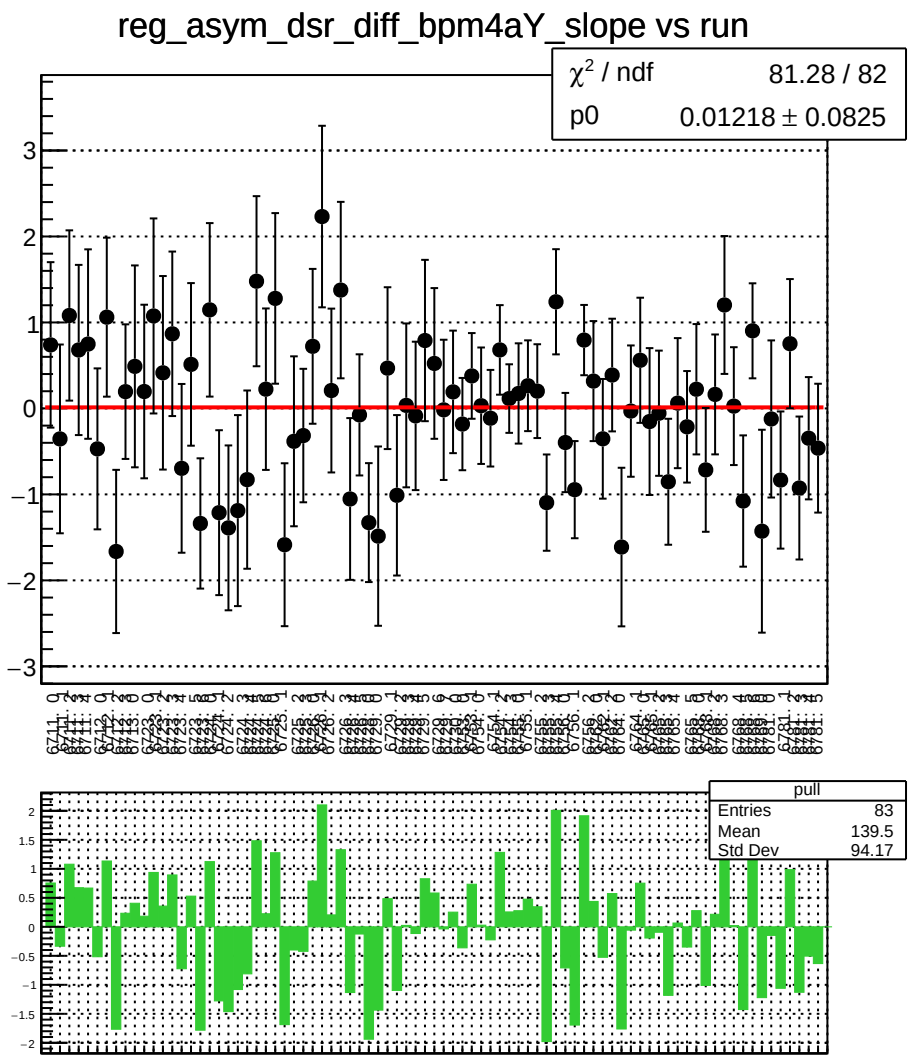

pull1D
Entries 83
Mean 0.029
Std Dev 1.07

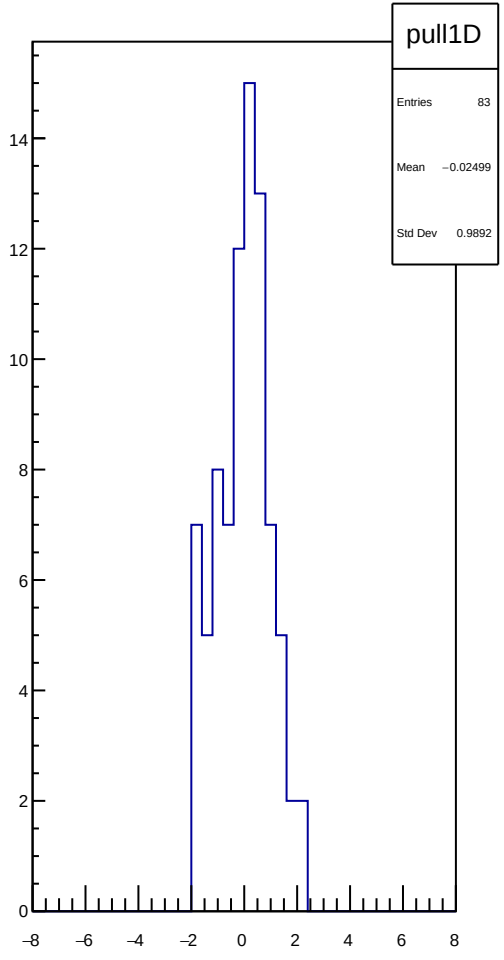

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 71.91 / 82
p0 −0.006397 ± 0.004565
pull
Entries 83
Mean −82.59
Std Dev 226.7

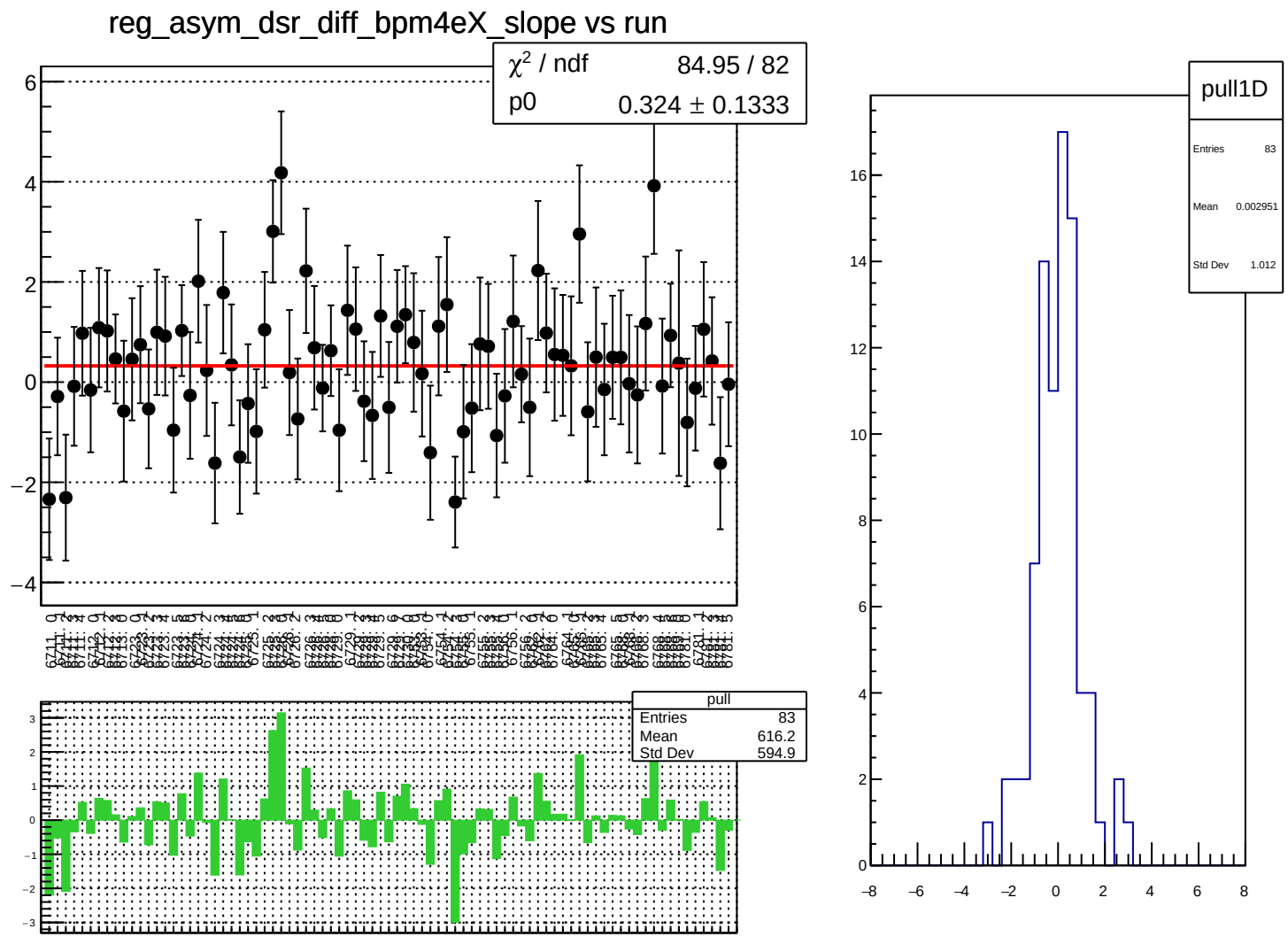

pull1D
Entries 83
Mean 0.001743
Std Dev 0.9308

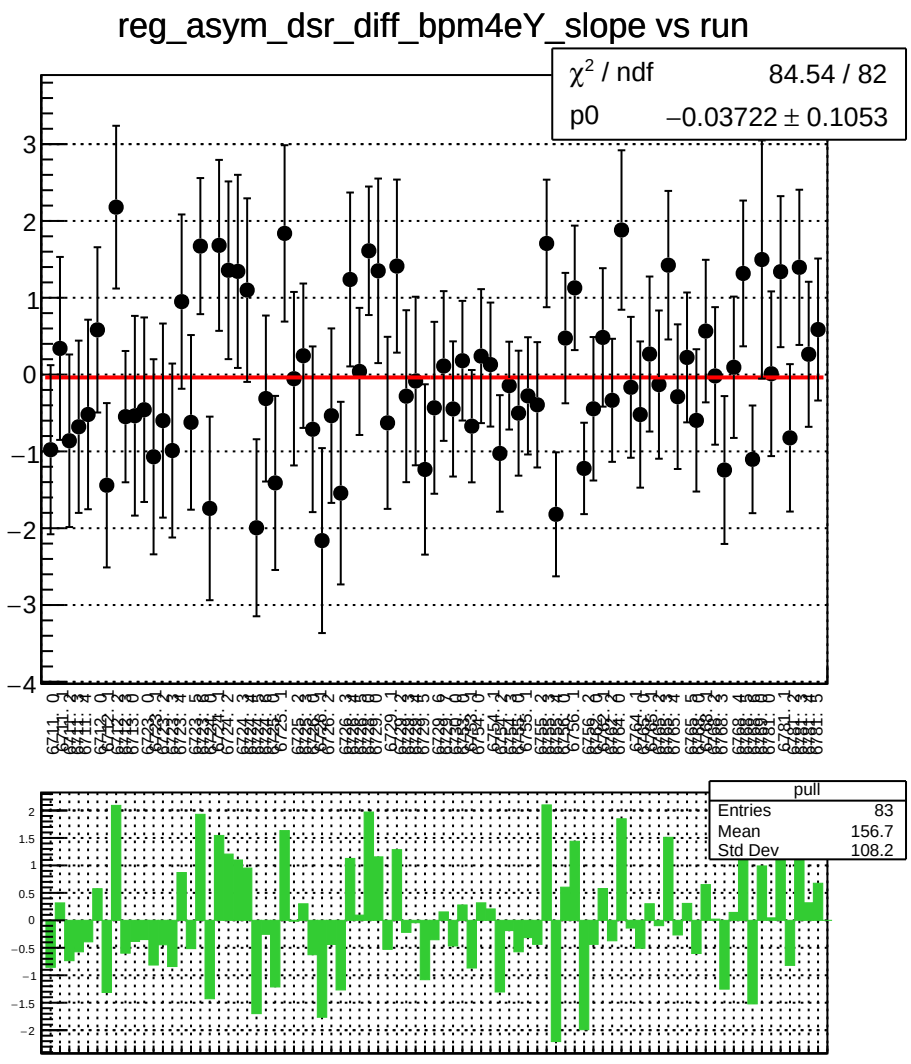

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 89.31 / 82
p0 −0.3704 ± 0.1393
pull
Entries 83
Mean 505.2
Std Dev 479.6

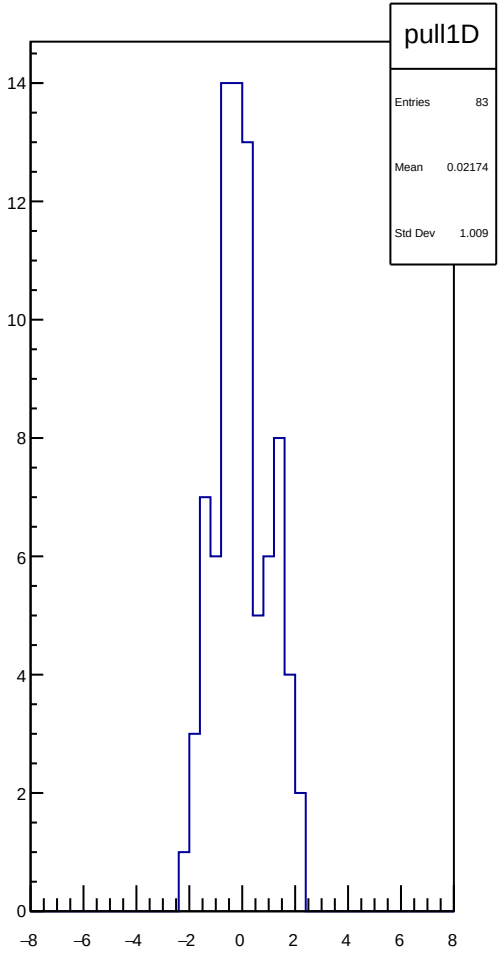

pull1D
Entries 83
Mean −0.003968
Std Dev 1.037

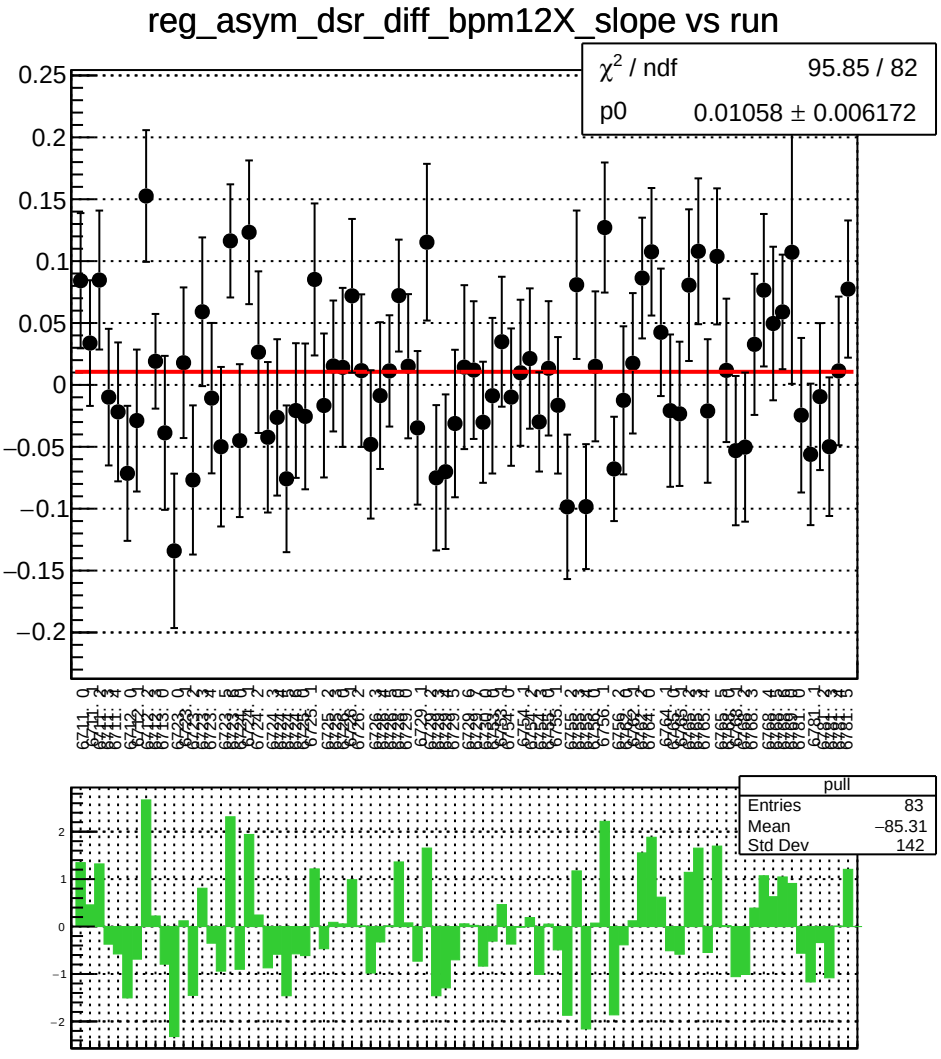

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 81.28 / 82
p0 0.01218 ± 0.0825
pull
Entries 83
Mean 139.5
Std Dev 94.17

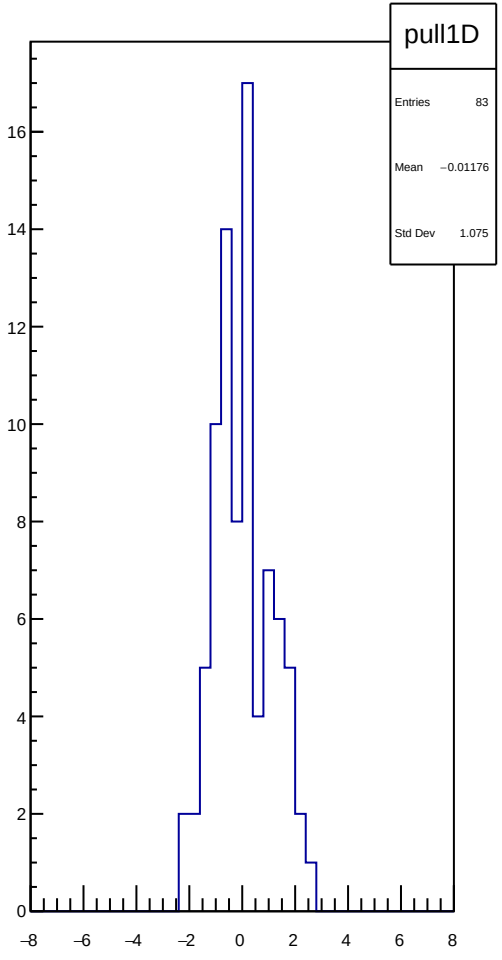

pull1D
Entries 83
Mean −0.02499
Std Dev 0.9892

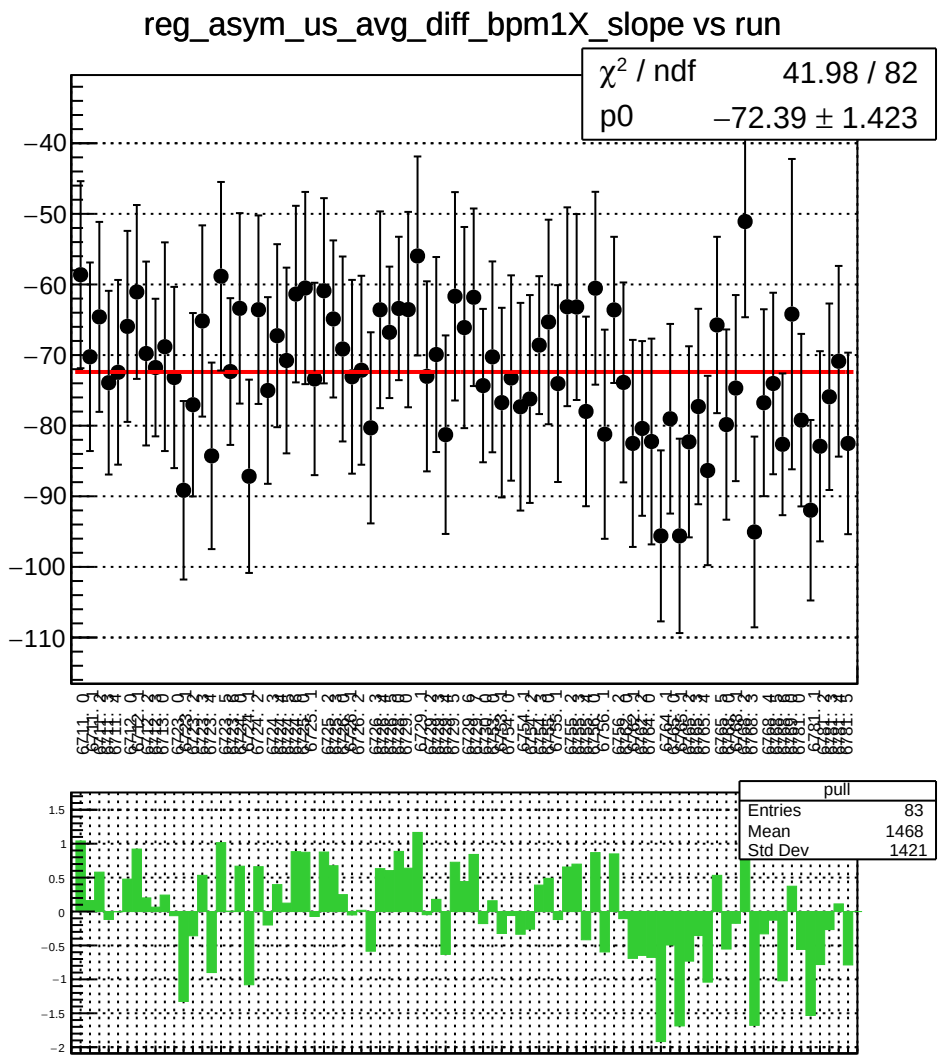

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 84.95 / 82
p0 0.324 ± 0.1333
pull
Entries 83
Mean 616.2
Std Dev 594.9
pull1D
Entries 83
Mean 0.002951
Std Dev 1.012

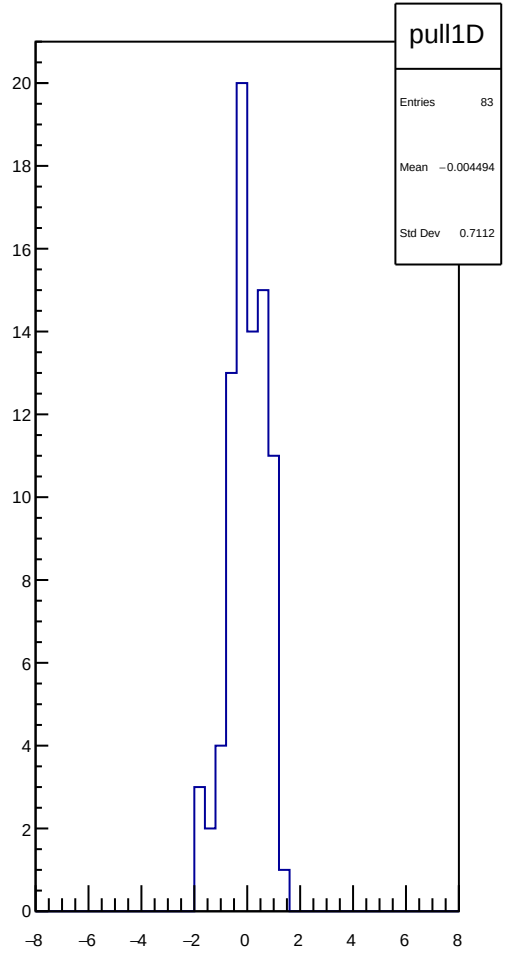

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 84.54 / 82
p0 −0.03722 ± 0.1053
pull
Entries 83
Mean 156.7
Std Dev 108.2

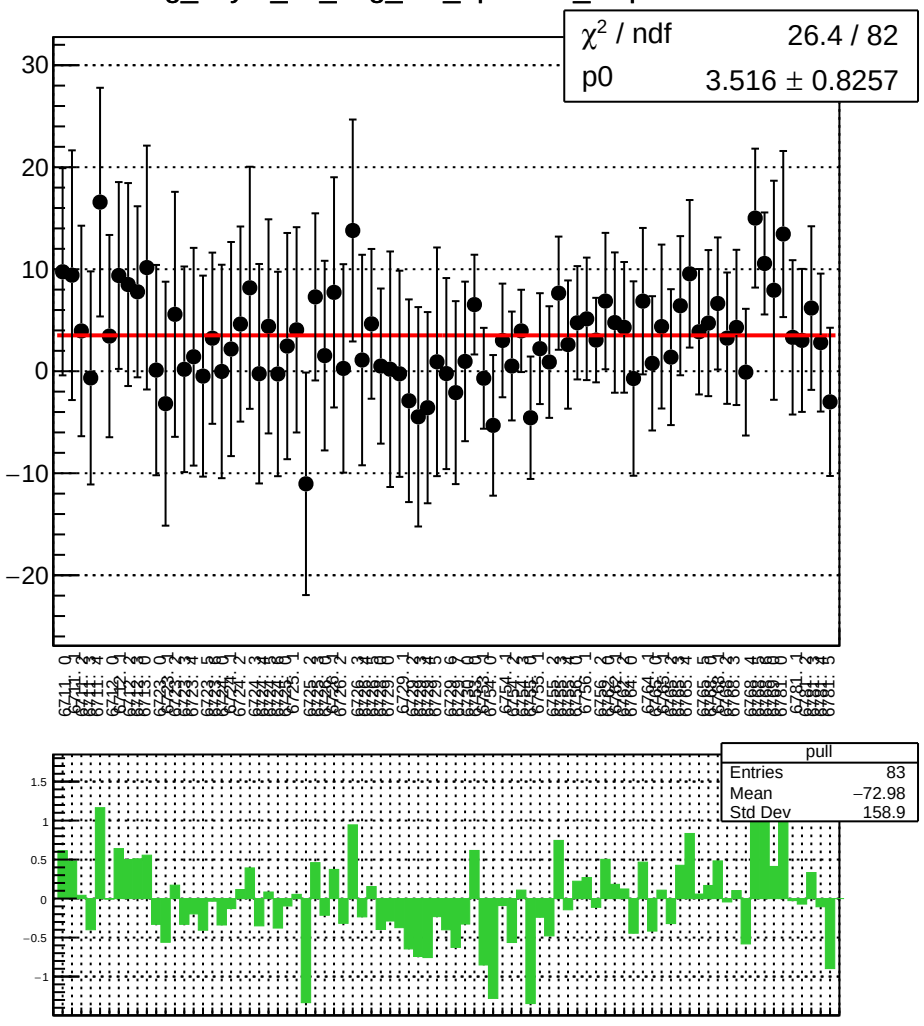

pull1D
Entries 83
Mean 0.02174
Std Dev 1.009

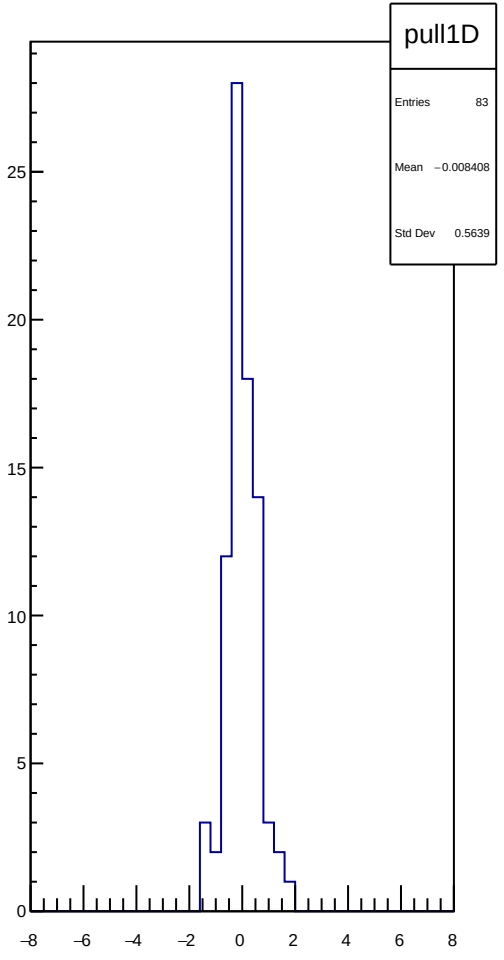

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 95.85 / 82
p0 0.01058 ± 0.006172
pull
Entries 83
Mean −85.31
Std Dev 142

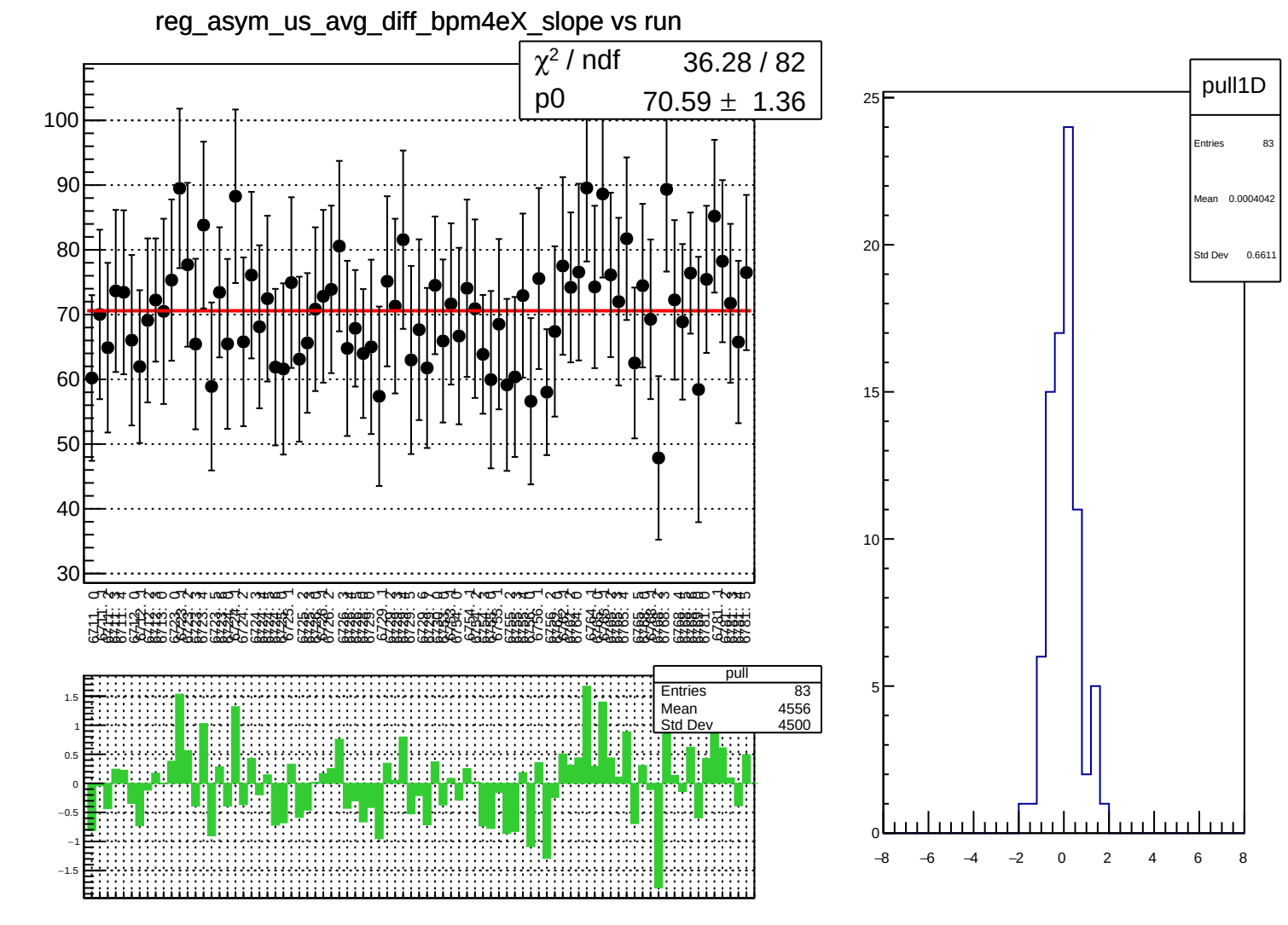

pull1D
Entries 83
Mean −0.01176
Std Dev 1.075

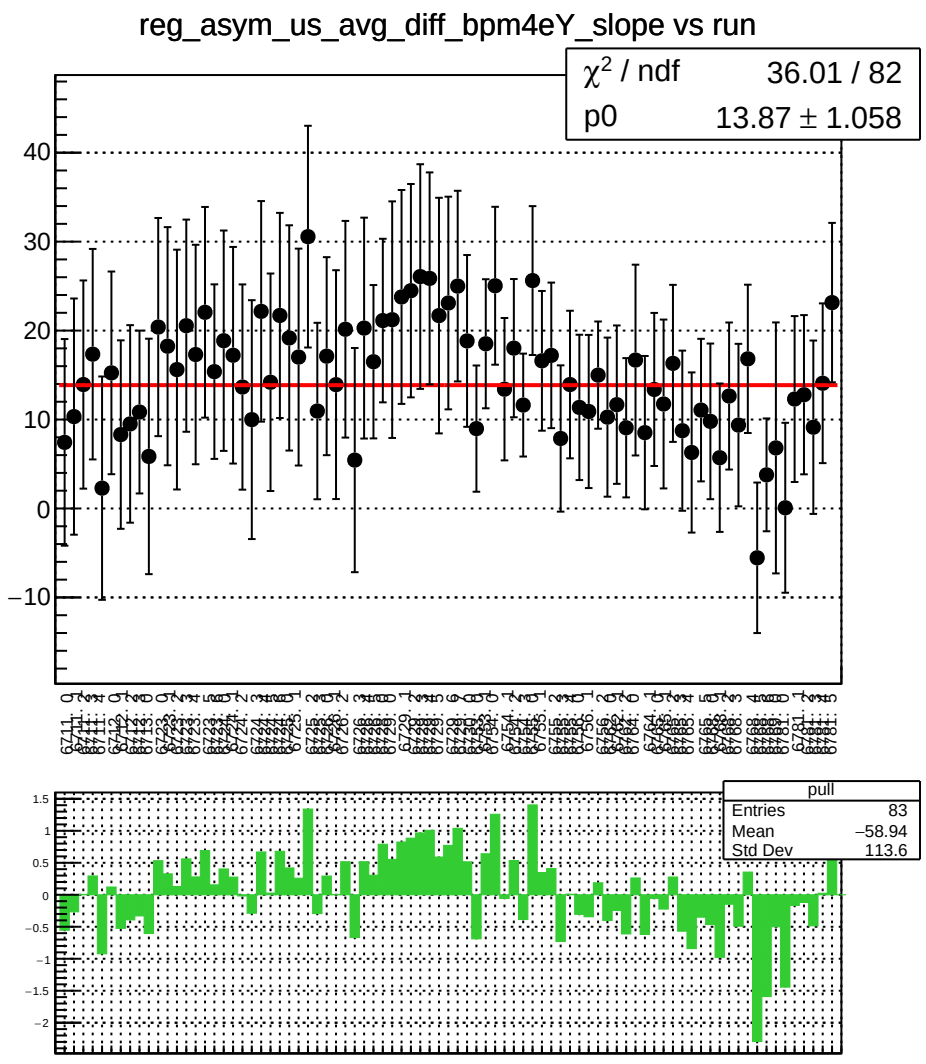

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 41.98 / 82
p0 −72.39 ± 1.423
pull
Entries 83
Mean 1468
Std Dev 1421

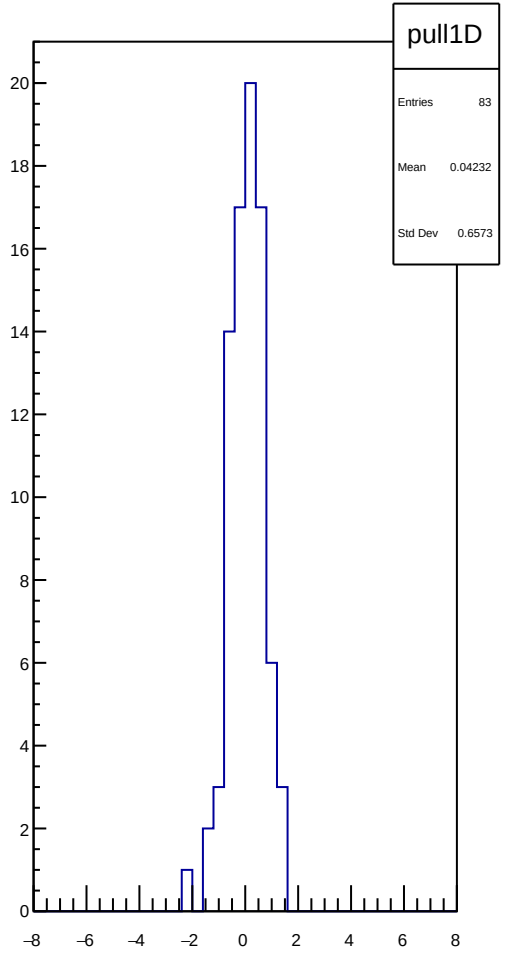

pull1D
Entries 83
Mean −0.004494
Std Dev 0.7112

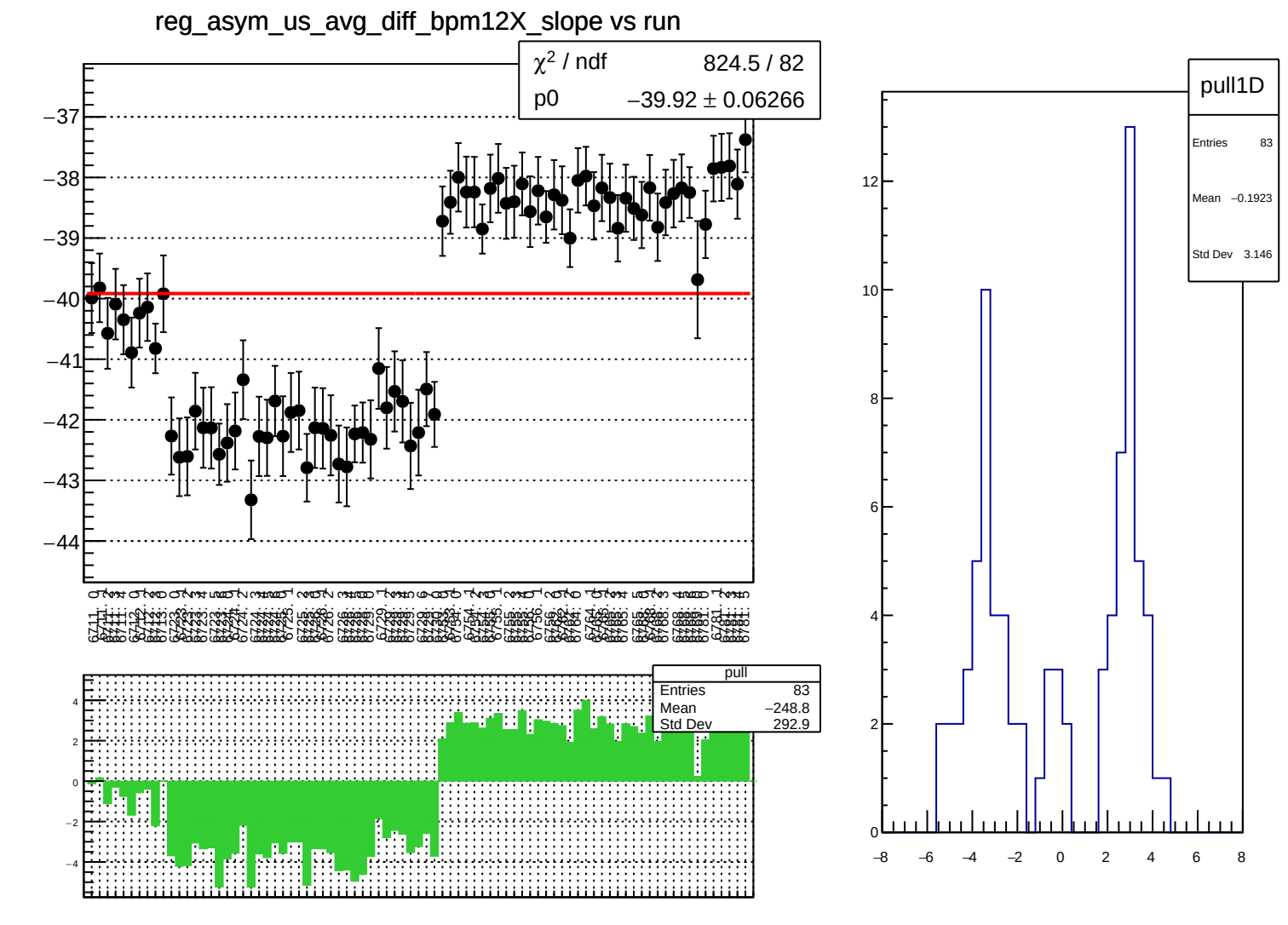

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.4 / 82
p0 3.516 ± 0.8257
pull
Entries 83
Mean −72.98
Std Dev 158.9

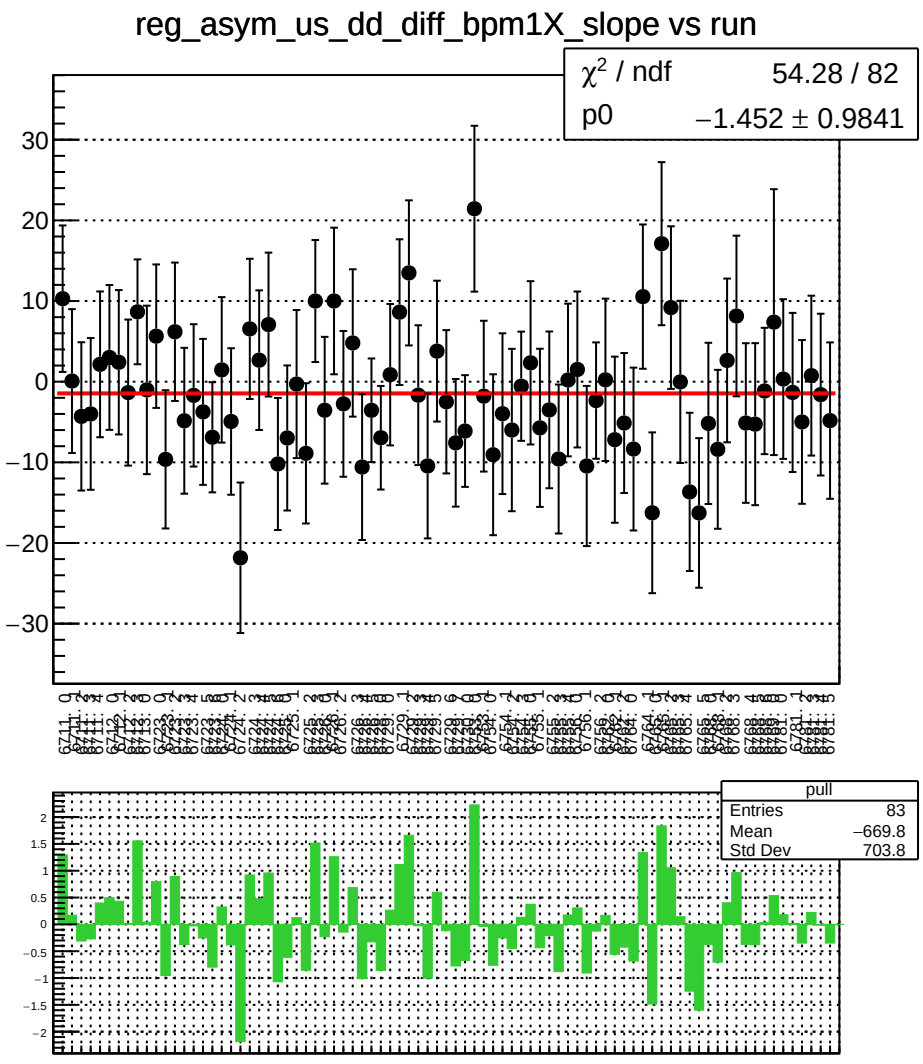

pull1D
Entries 83
Mean −0.008408
Std Dev 0.5639

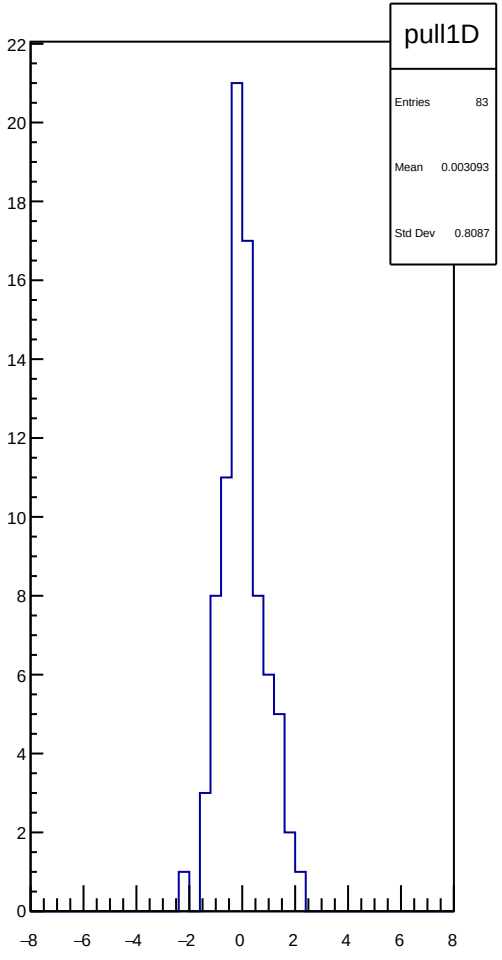

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.28 / 82
p0 70.59 ± 1.36
pull
Entries 83
Mean 4556
Std Dev 4500
pull1D
Entries 83
Mean 0.0004042
Std Dev 0.6611

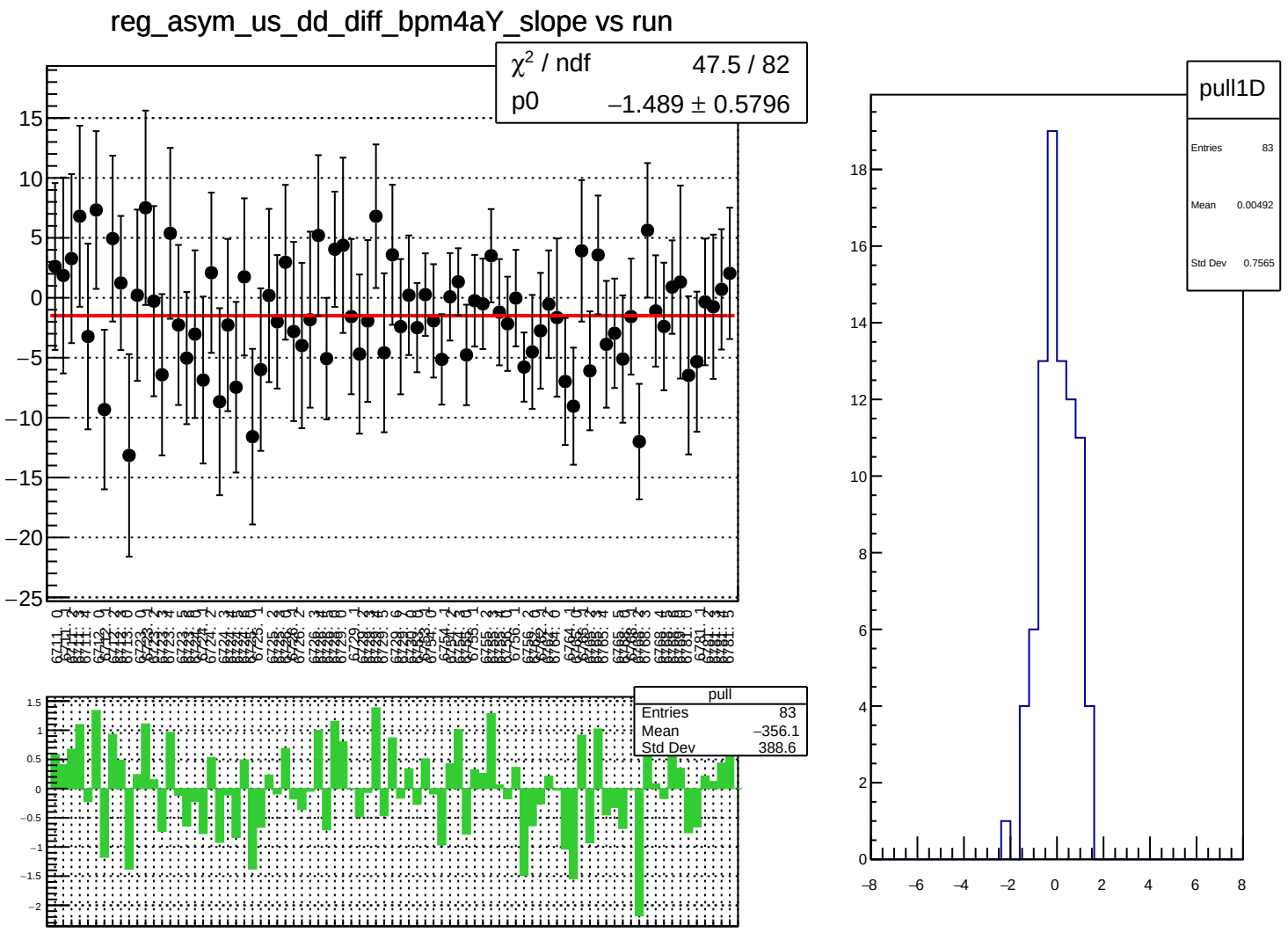

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.01 / 82
p0 13.87 ± 1.058
pull
Entries 83
Mean −58.94
Std Dev 113.6

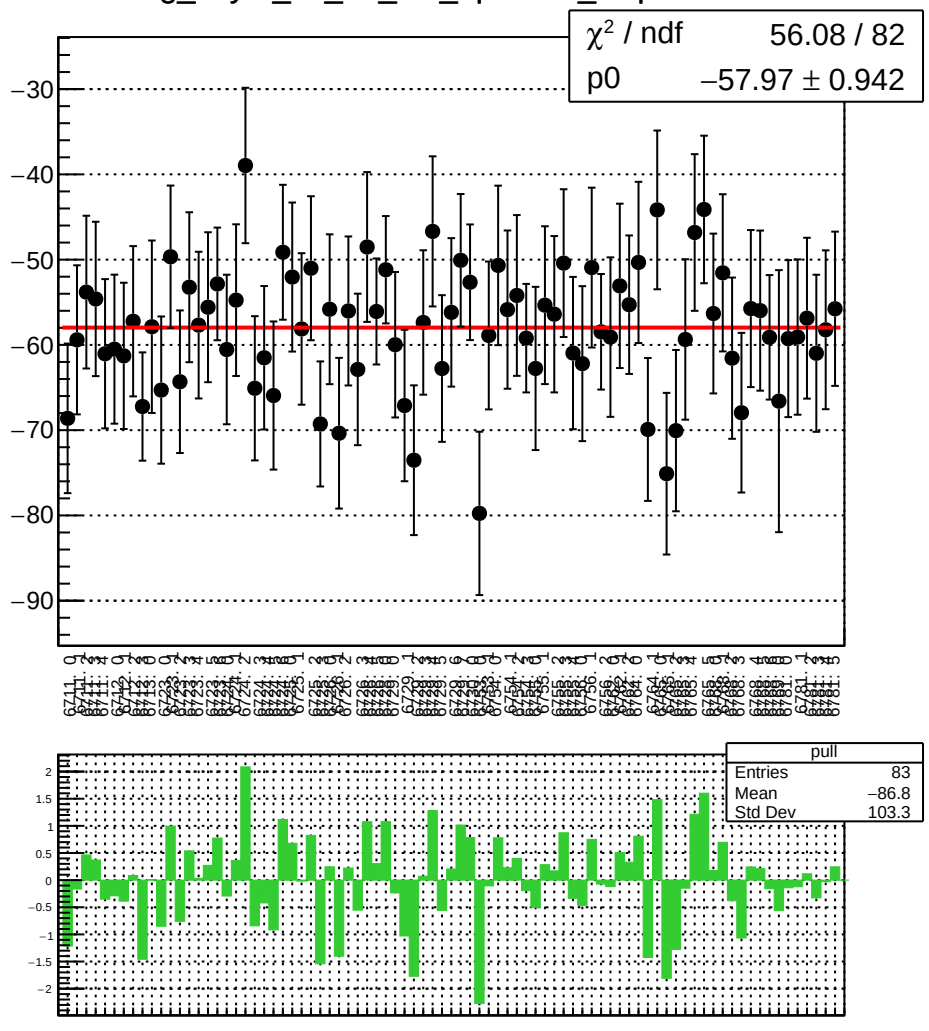

pull1D
Entries 83
Mean 0.04232
Std Dev 0.6573

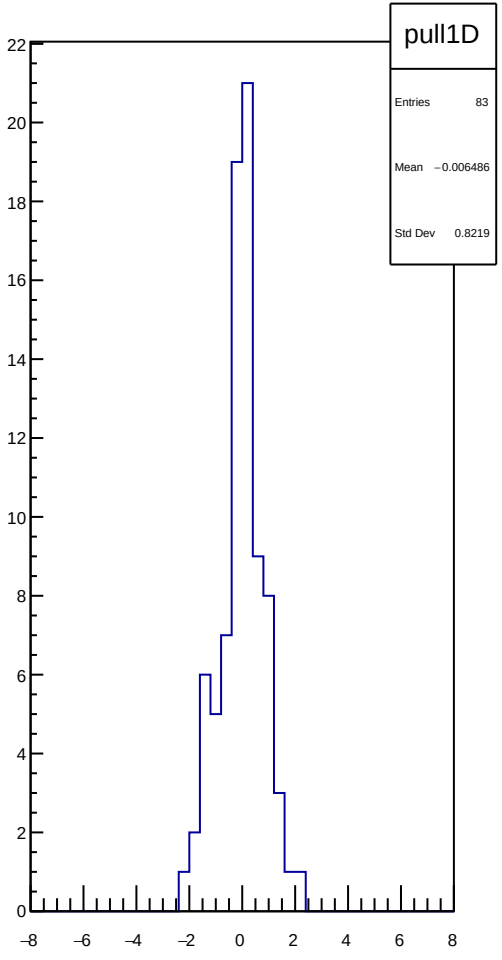

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 824.5 / 82
p0 −39.92 ± 0.06266
pull
Entries 83
Mean −248.8
Std Dev 292.9
pull1D
Entries 83
Mean −0.1923
Std Dev 3.146

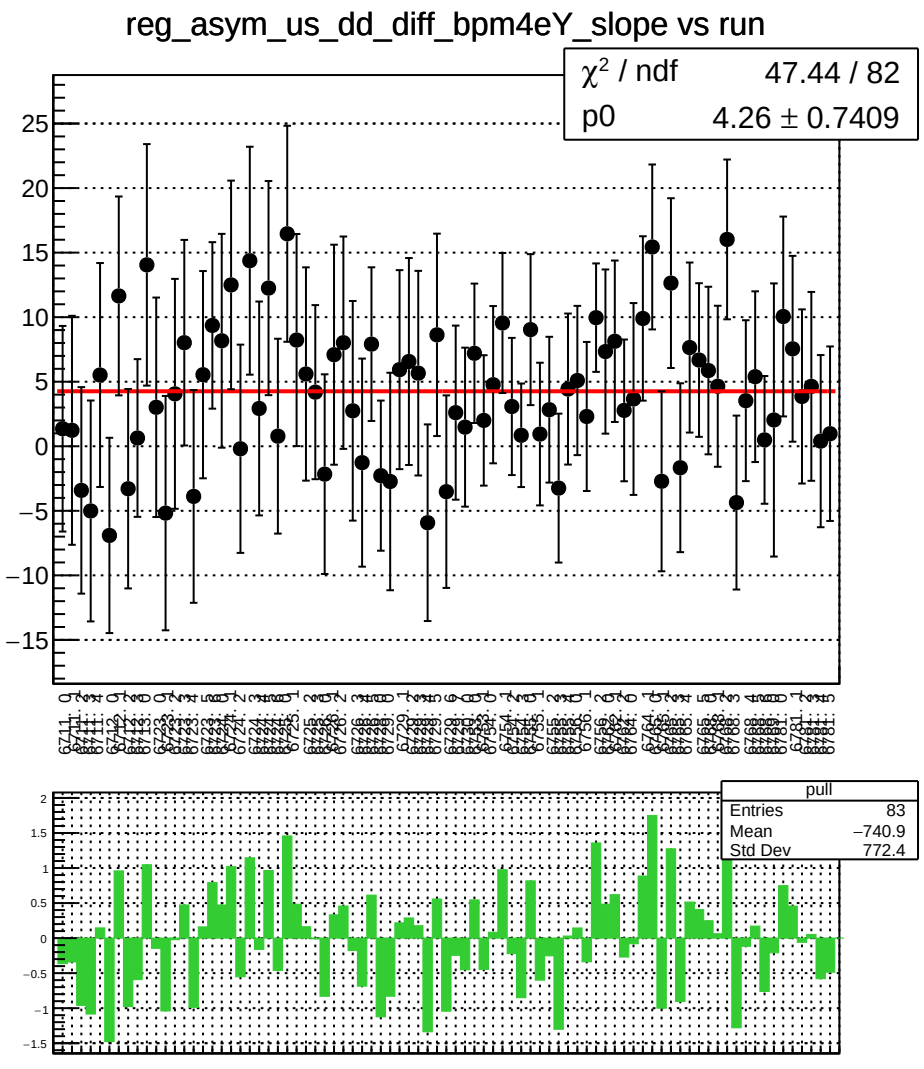

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 54.28 / 82
p0 −1.452 ± 0.9841
pull
Entries 83
Mean −669.8
Std Dev 703.8

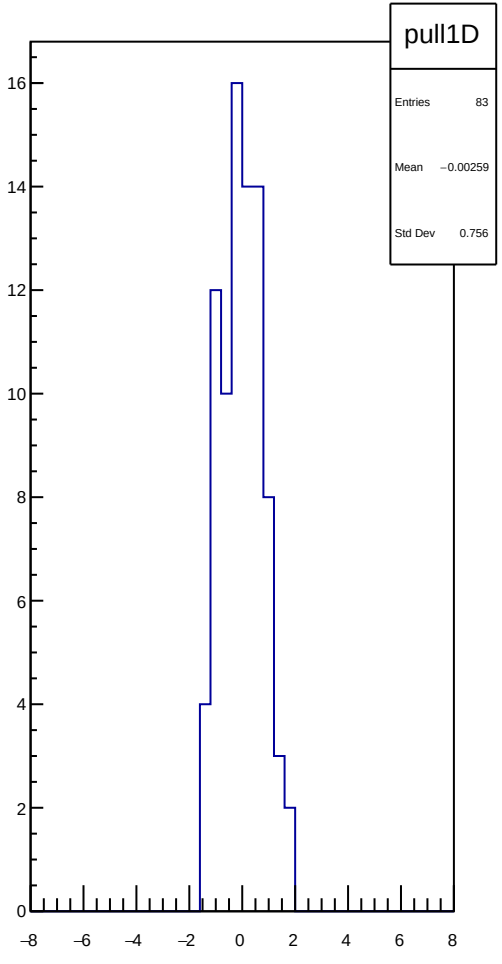

pull1D
Entries 83
Mean 0.003093
Std Dev 0.8087

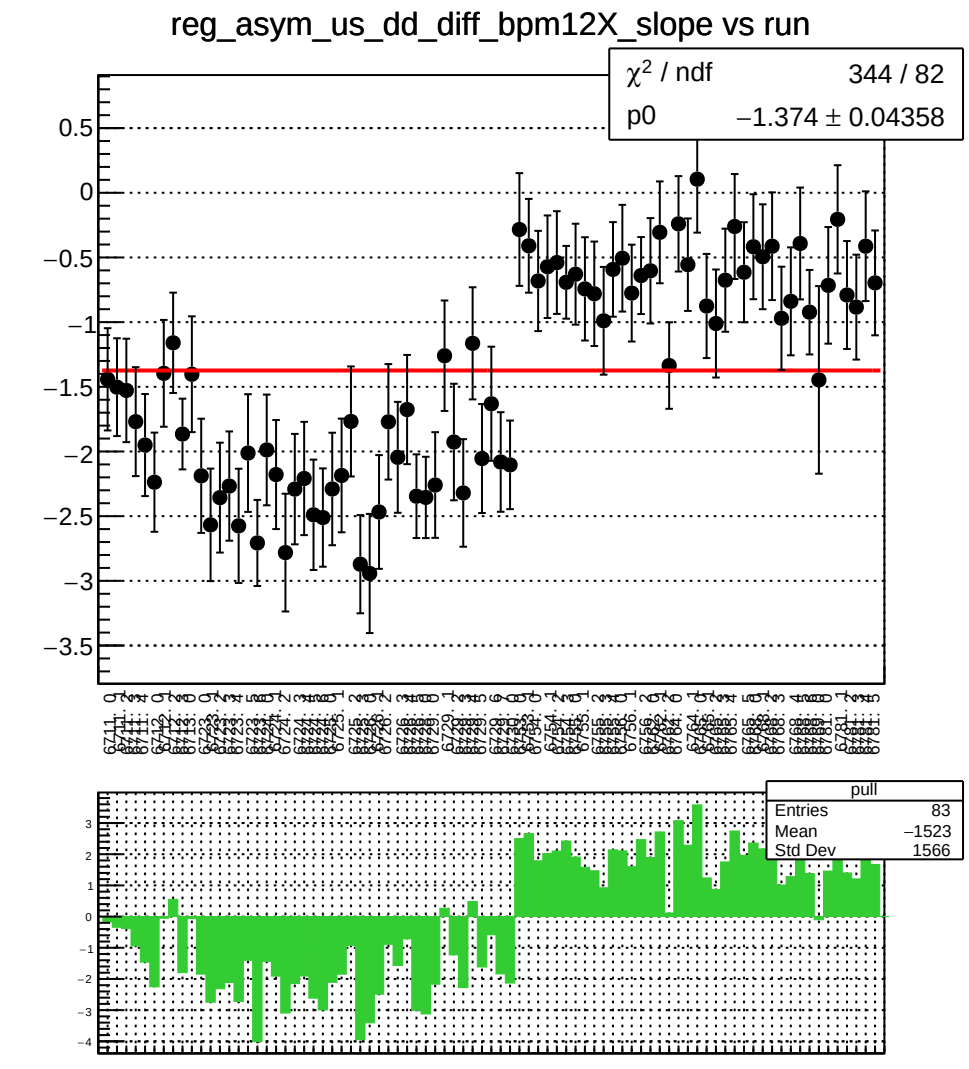

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.5 / 82
p0 −1.489 ± 0.5796
pull
Entries 83
Mean −356.1
Std Dev 388.6
pull1D
Entries 83
Mean 0.00492
Std Dev 0.7565

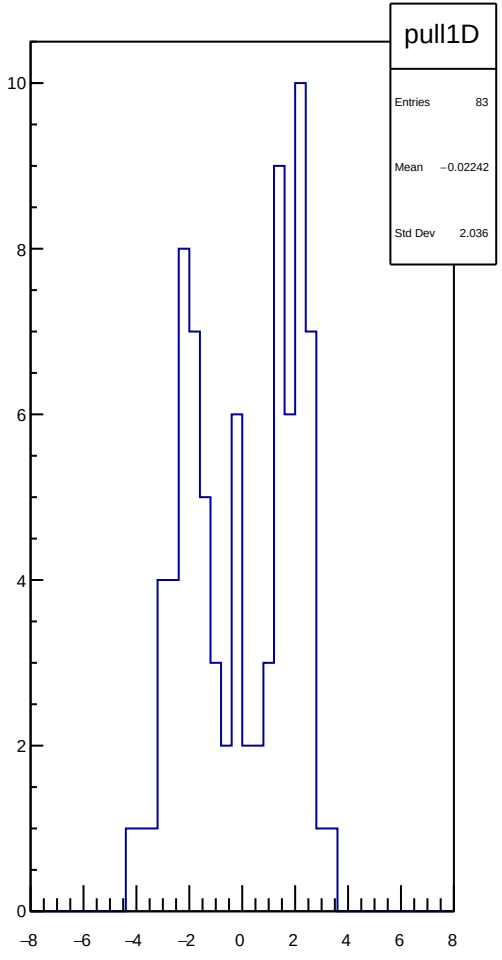

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 56.08 / 82
p0 −57.97 ± 0.942
pull
Entries 83
Mean −86.8
Std Dev 103.3

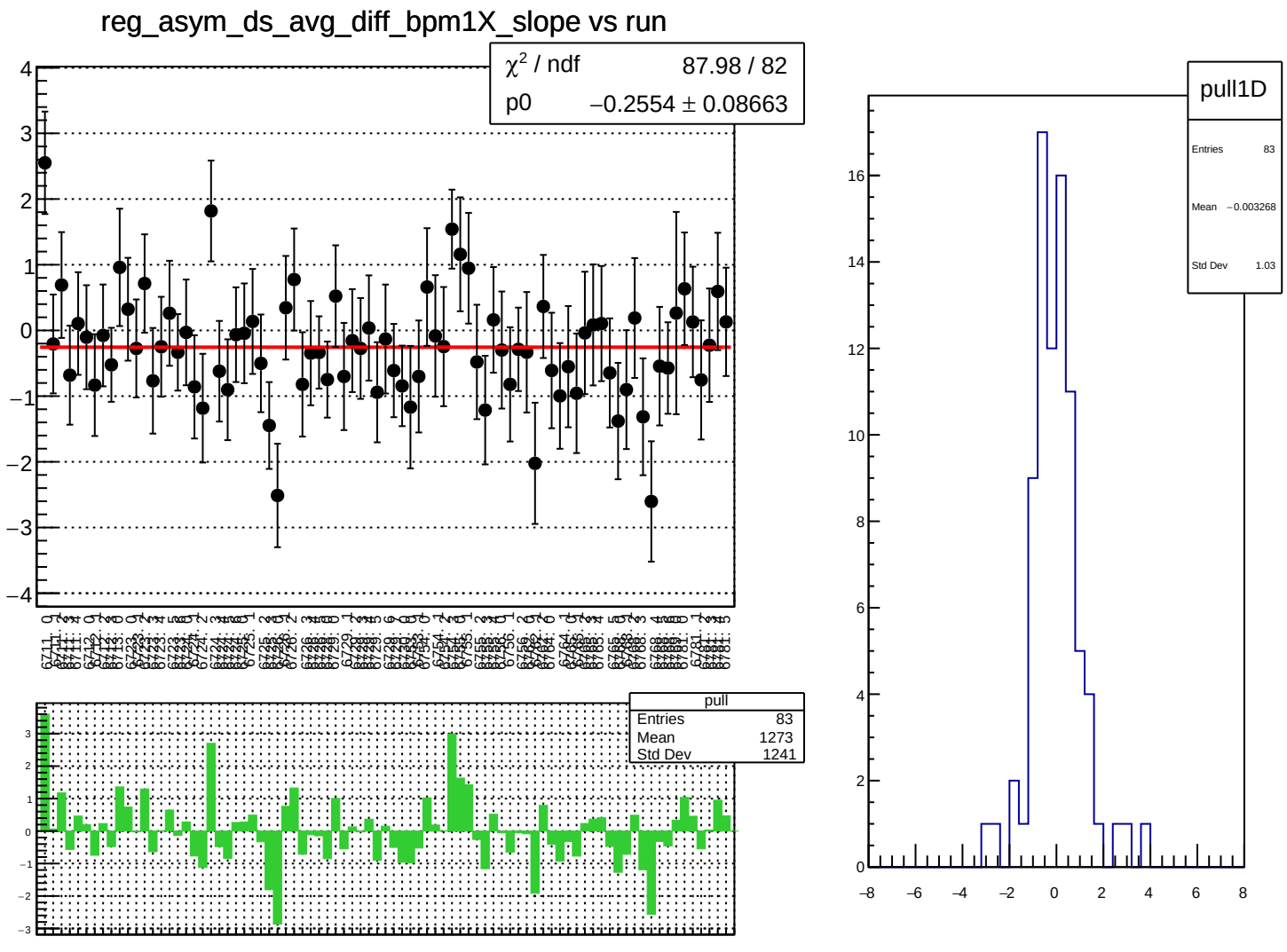

pull1D
Entries 83
Mean −0.006486
Std Dev 0.8219

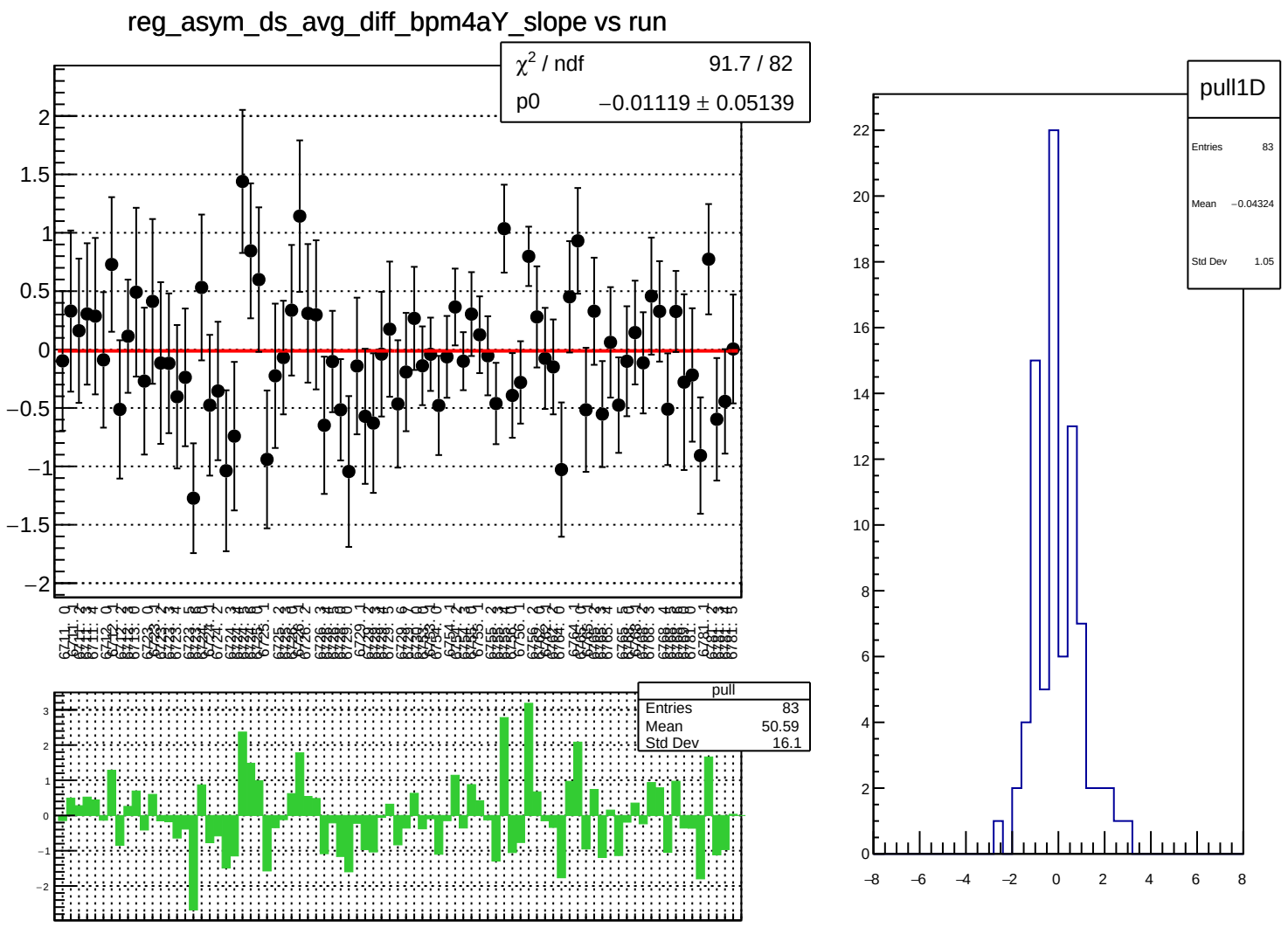

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.44 / 82
p0 4.26 ± 0.7409
pull
Entries 83
Mean −740.9
Std Dev 772.4

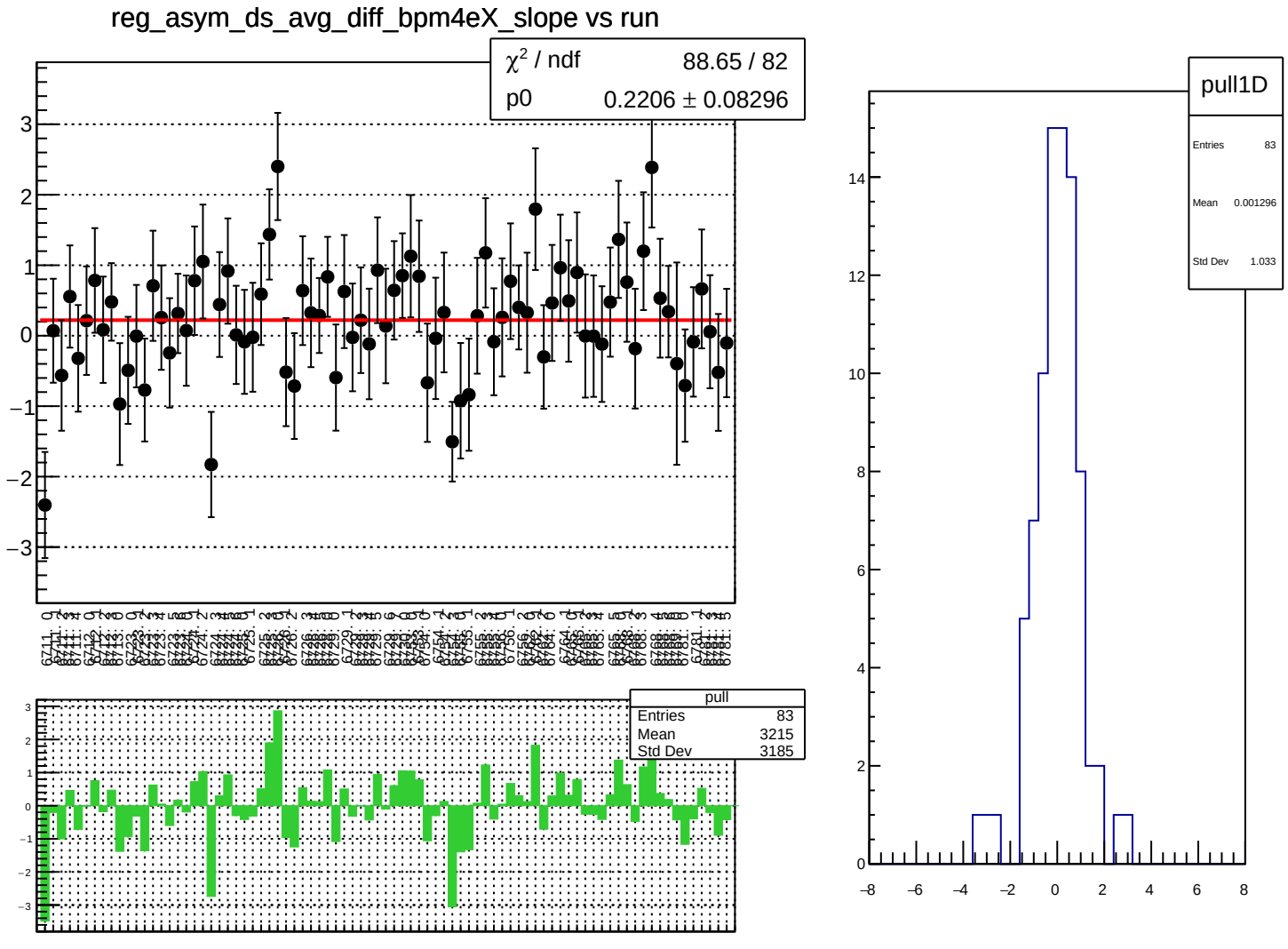

pull1D
Entries 83
Mean −0.00259
Std Dev 0.756

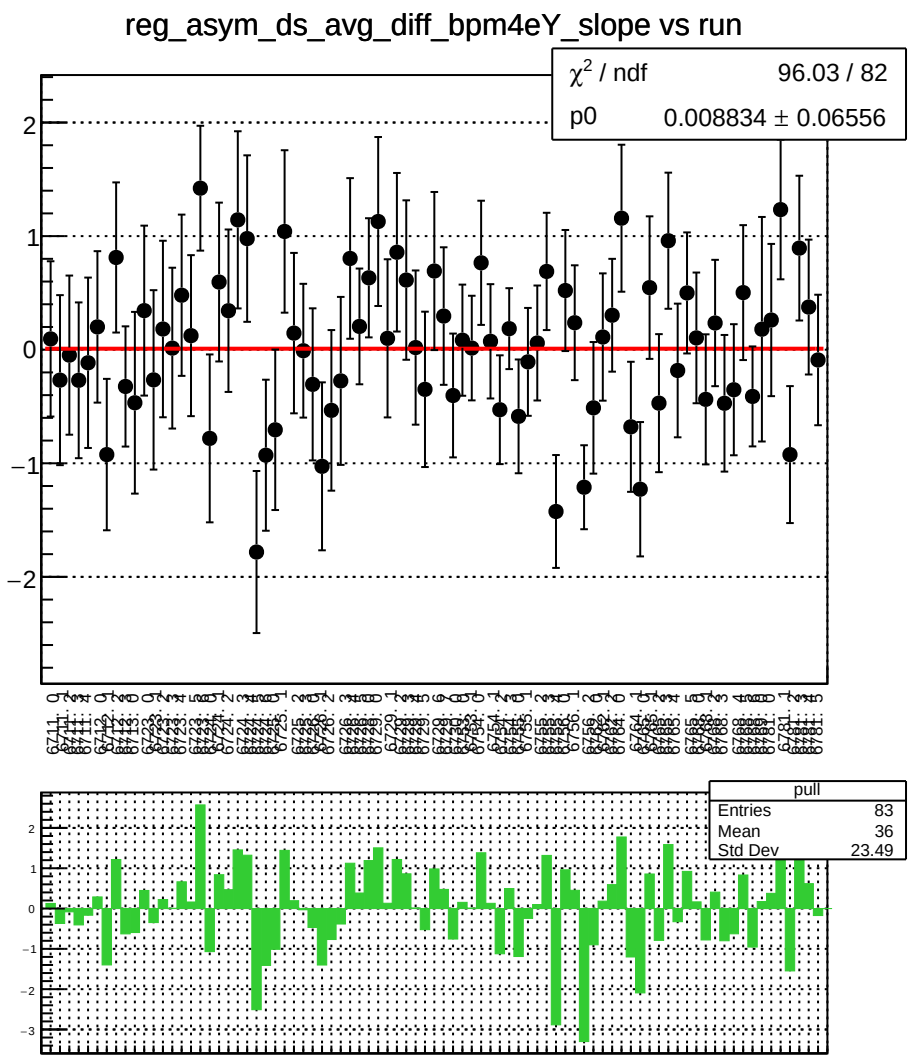

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 344 / 82
p0 −1.374 ± 0.04358
pull
Entries 83
Mean −1523
Std Dev 1566

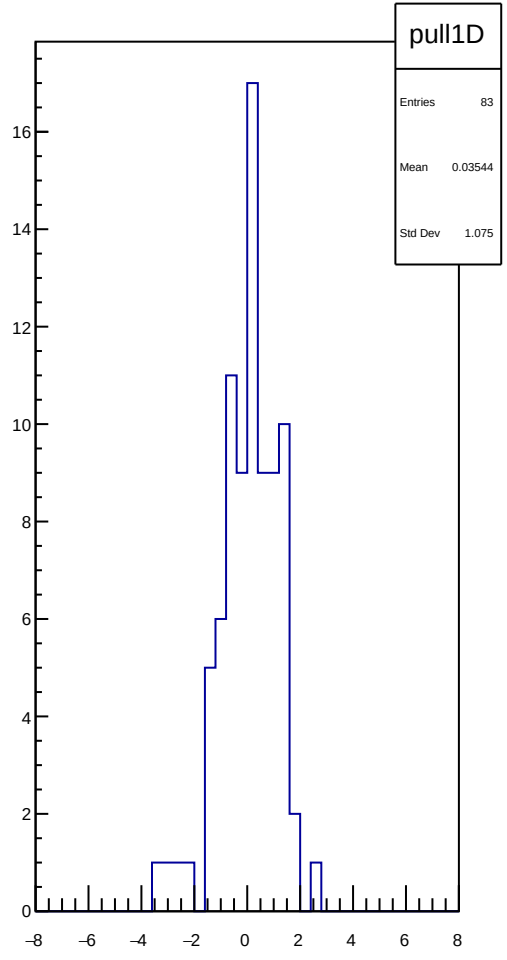

pull1D
Entries 83
Mean −0.02242
Std Dev 2.036

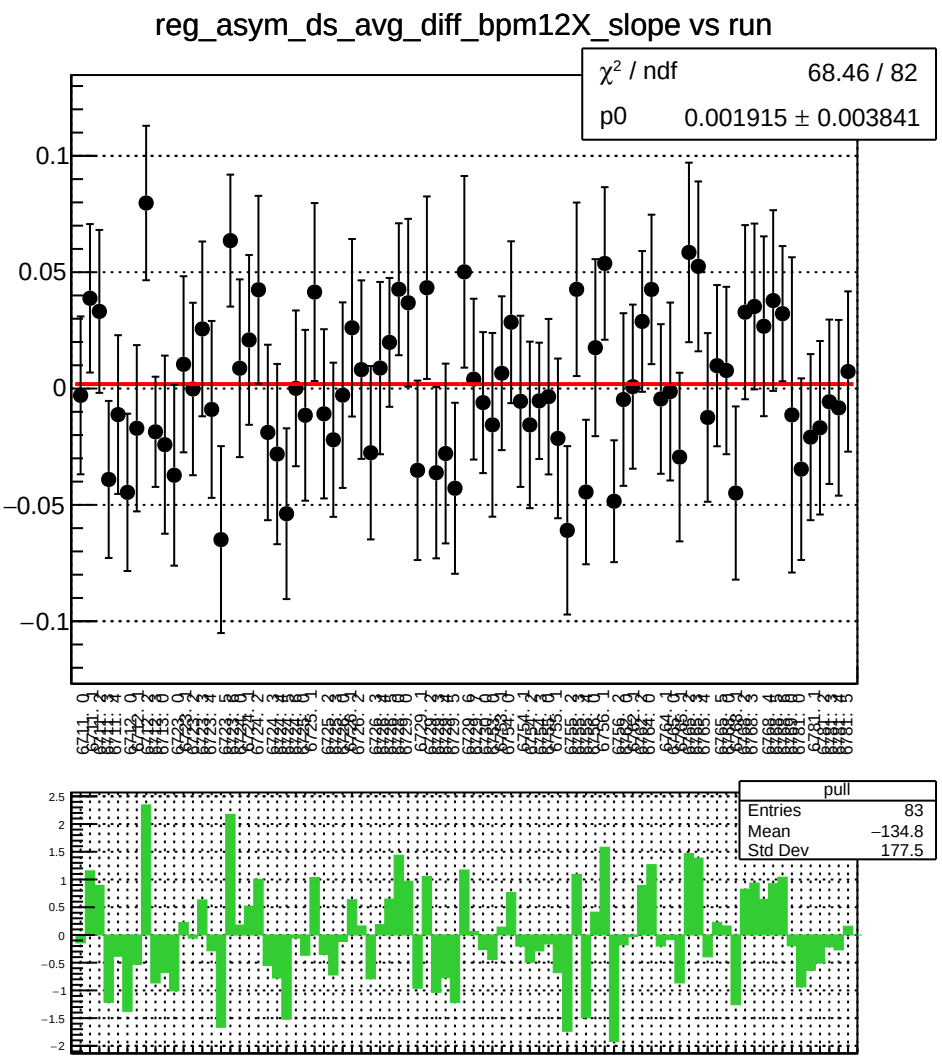

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 87.98 / 82
p0 −0.2554 ± 0.08663
pull
Entries 83
Mean 1273
Std Dev 1241
pull1D
Entries 83
Mean −0.003268
Std Dev 1.03

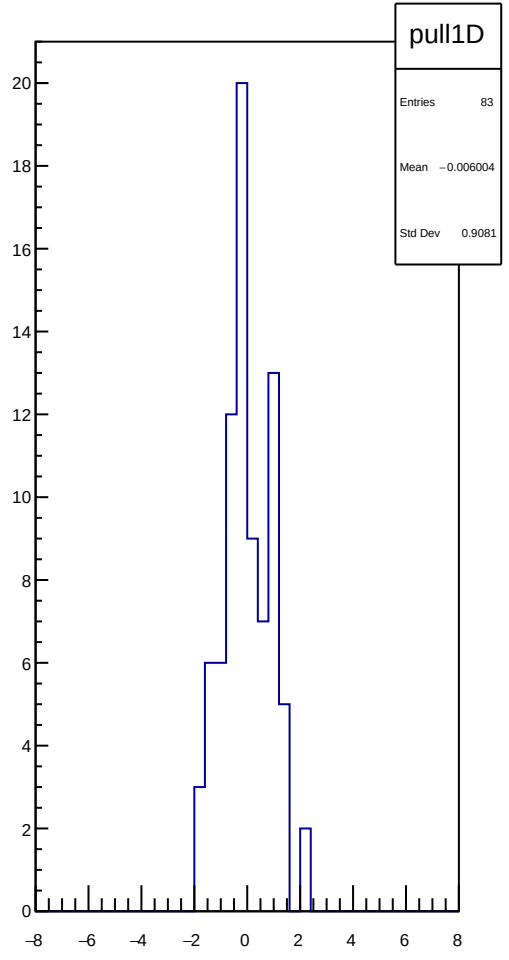

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 91.7 / 82
p0 −0.01119 ± 0.05139
pull
Entries 83
Mean 50.59
Std Dev 16.1
pull1D
Entries 83
Mean −0.04324
Std Dev 1.05

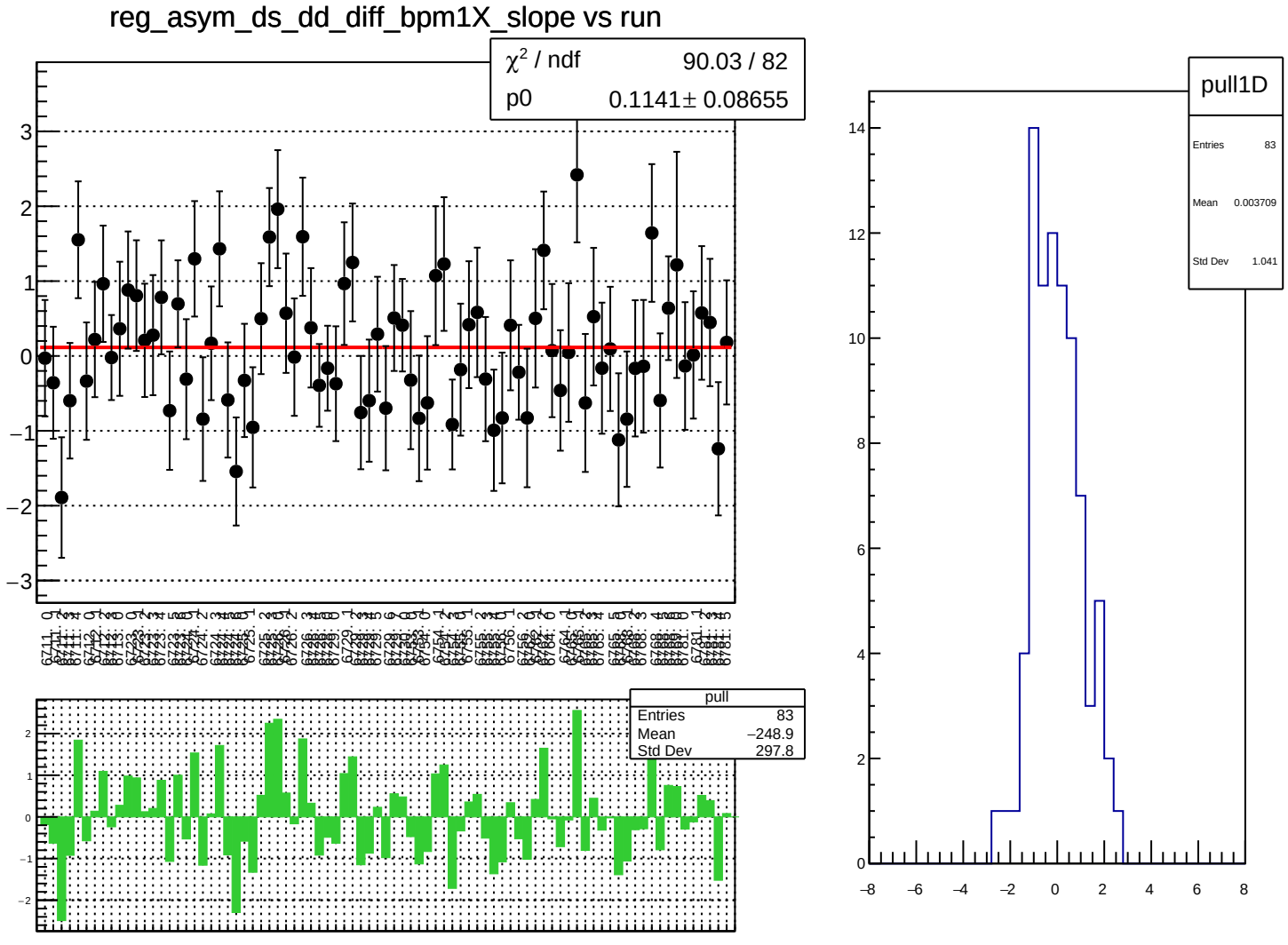

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 88.65 / 82
p0 0.2206 ± 0.08296
pull
Entries 83
Mean 3215
Std Dev 3185
pull1D
Entries 83
Mean 0.001296
Std Dev 1.033

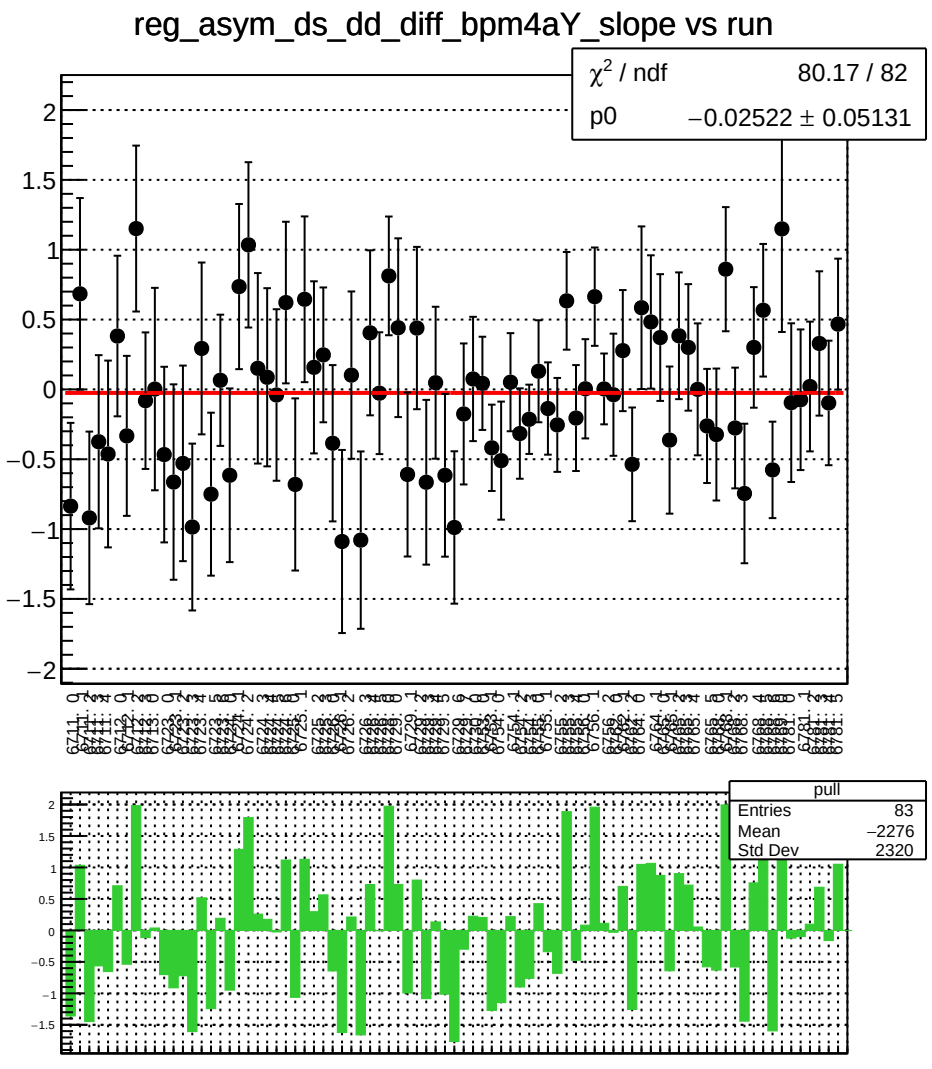

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 96.03 / 82
p0 0.008834 ± 0.06556
pull
Entries 83
Mean 36
Std Dev 23.49

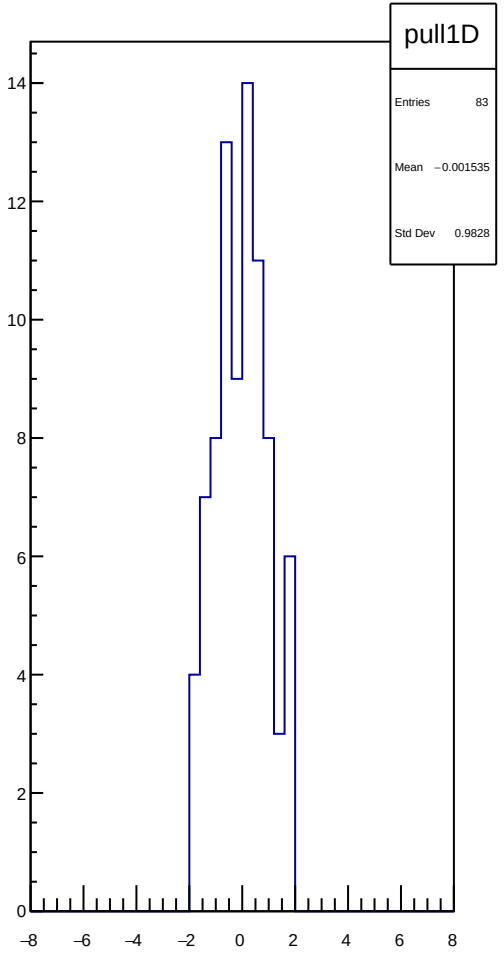

pull1D
Entries 83
Mean 0.03544
Std Dev 1.075

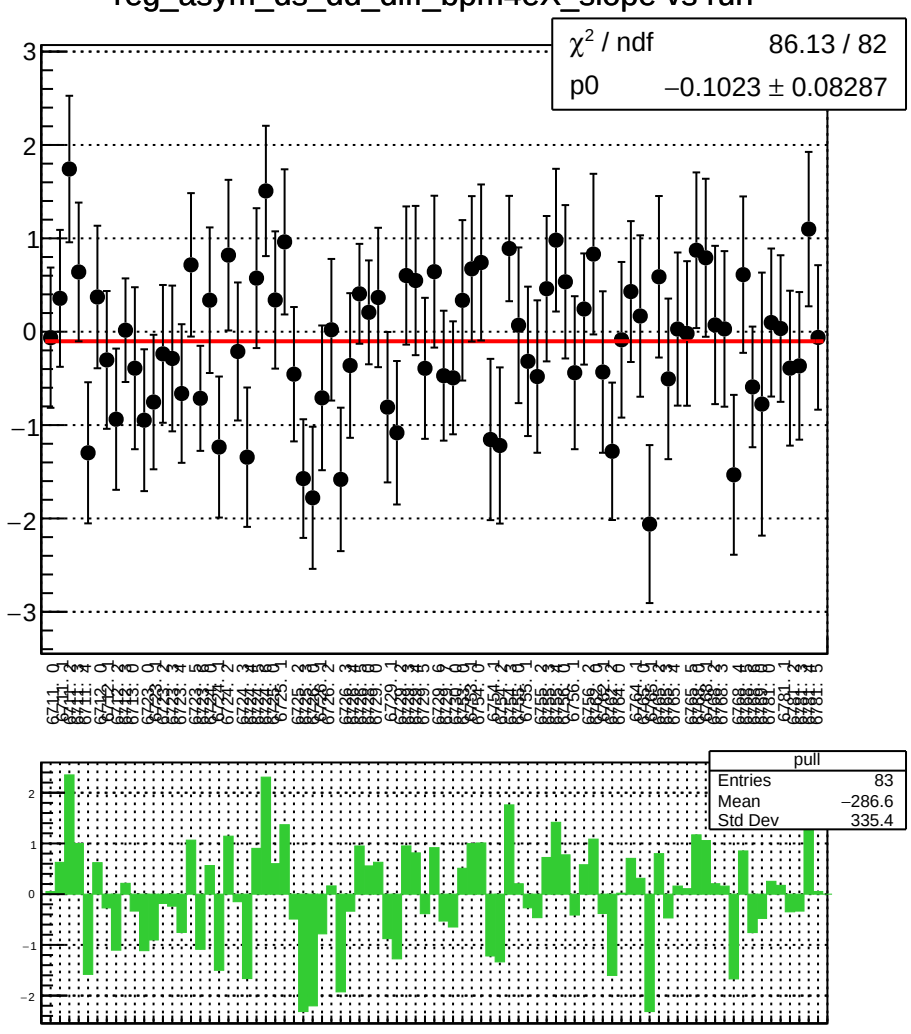

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 68.46 / 82
p0 0.001915 ± 0.003841
0.1
0.05
0
−0.05
−0.1
pull
Entries 83
Mean −134.8
Std Dev 177.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

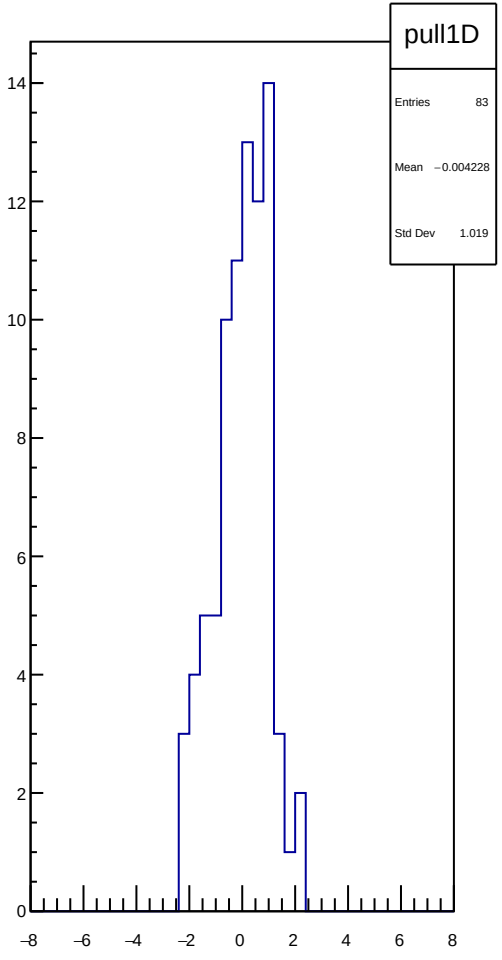

pull1D
Entries 83
Mean −0.006004
Std Dev 0.9081
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

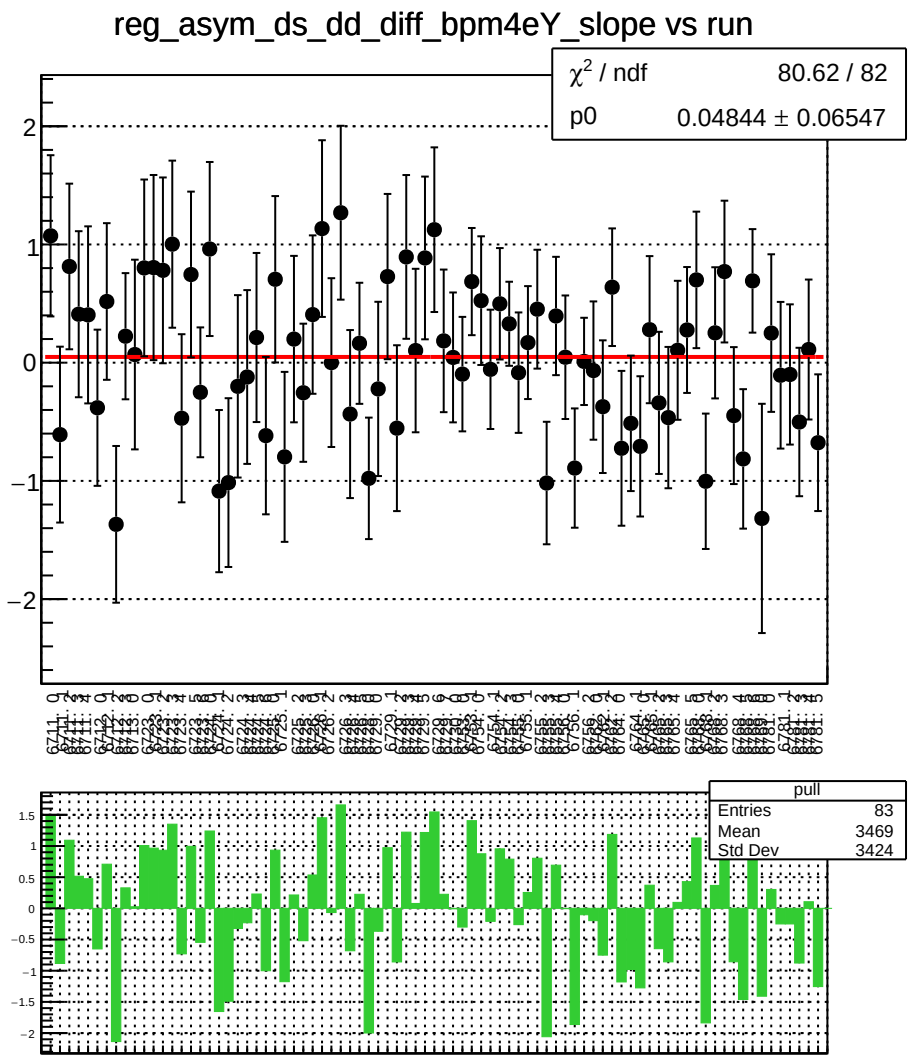

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 90.03 / 82
p0 0.1141± 0.08655
pull
Entries 83
Mean −248.9
Std Dev 297.8
pull1D
Entries 83
Mean 0.003709
Std Dev 1.041

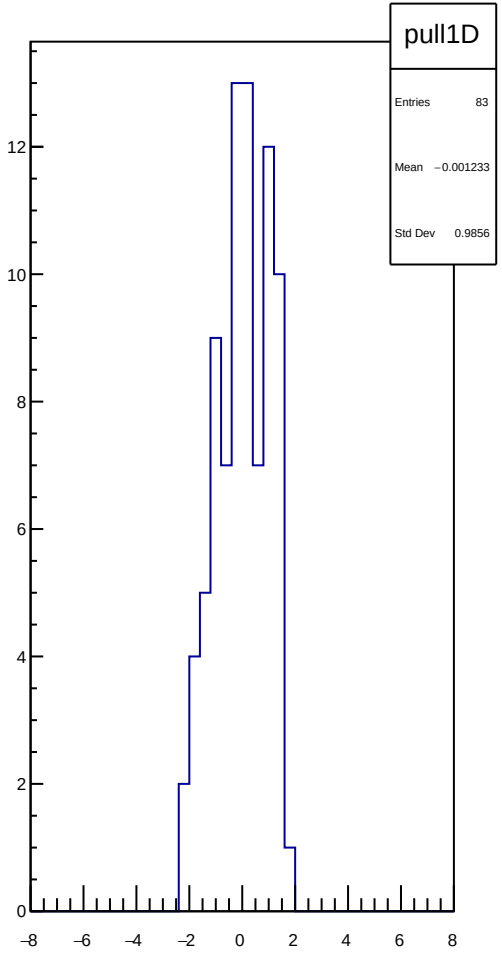

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.17 / 82
p0 −0.02522 ± 0.05131
pull
Entries 83
Mean −2276
Std Dev 2320

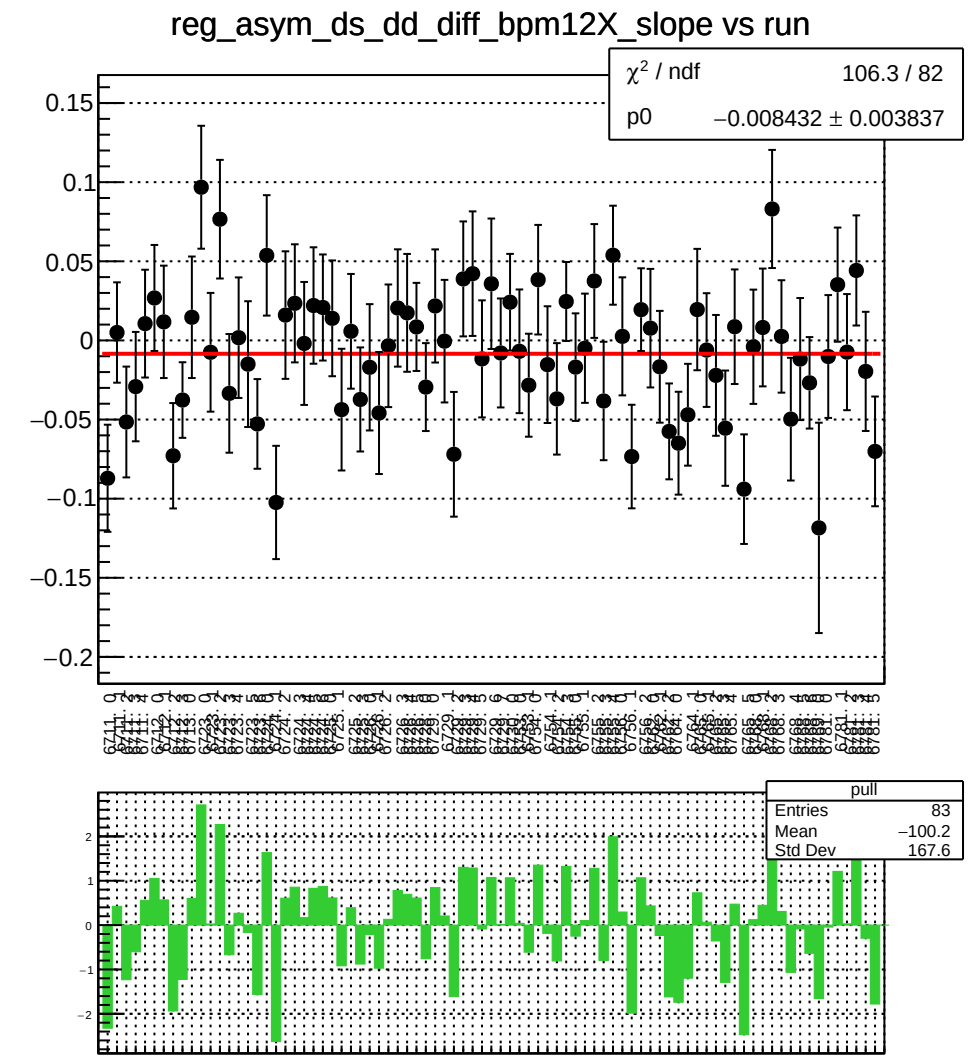

pull1D
Entries 83
Mean −0.001535
Std Dev 0.9828

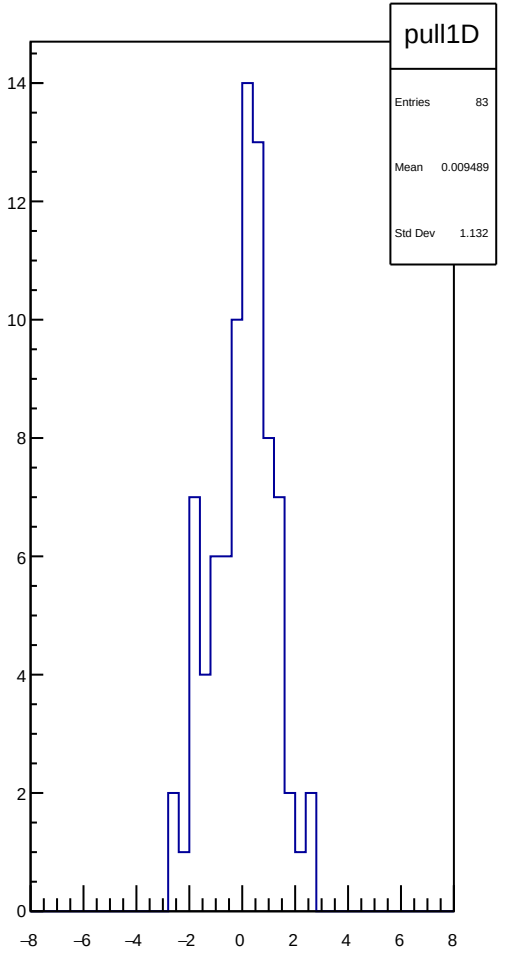

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 86.13 / 82
p0 −0.1023 ± 0.08287
pull
Entries 83
Mean −286.6
Std Dev 335.4

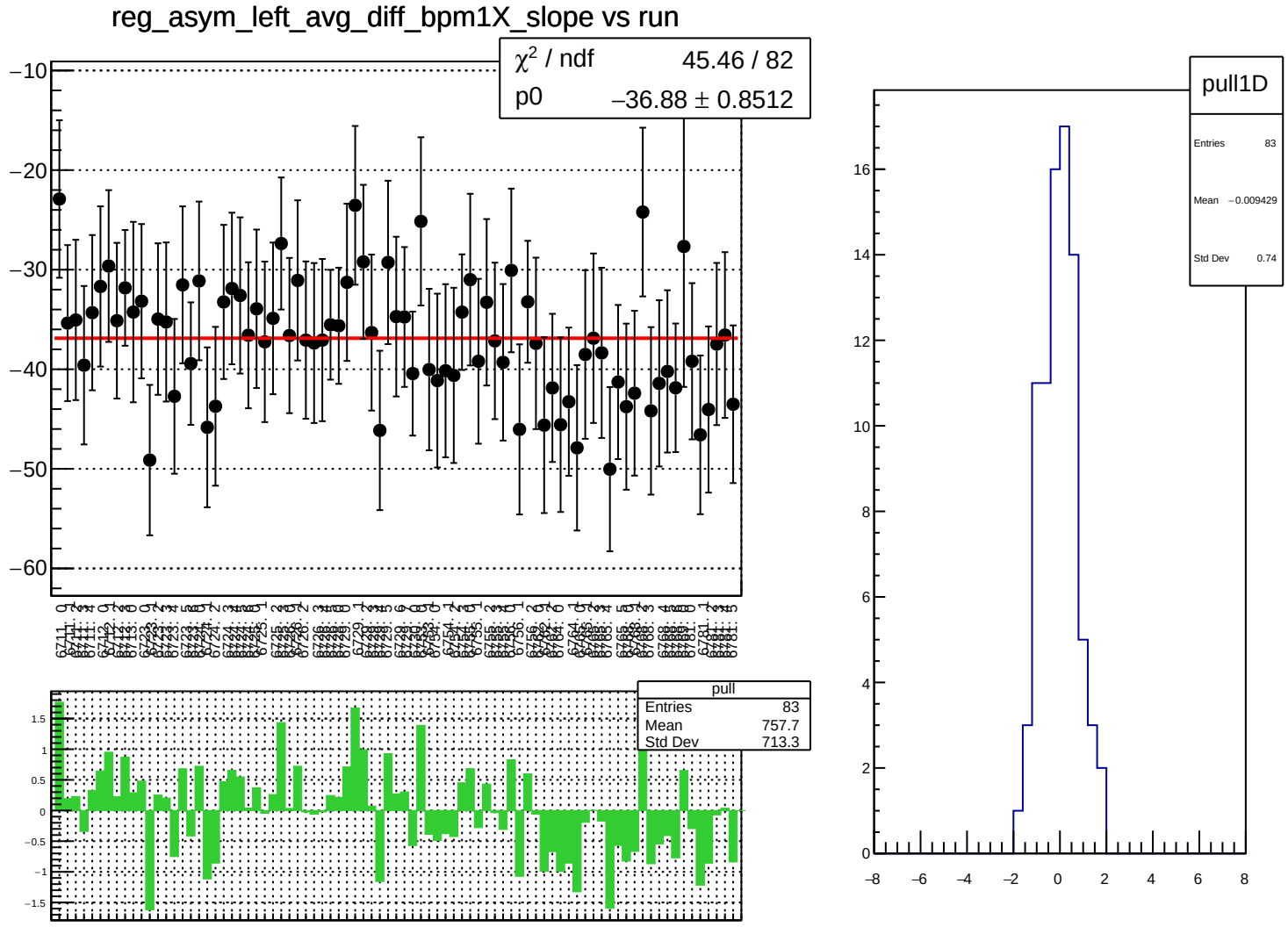

pull1D
Entries 83
Mean −0.004228
Std Dev 1.019

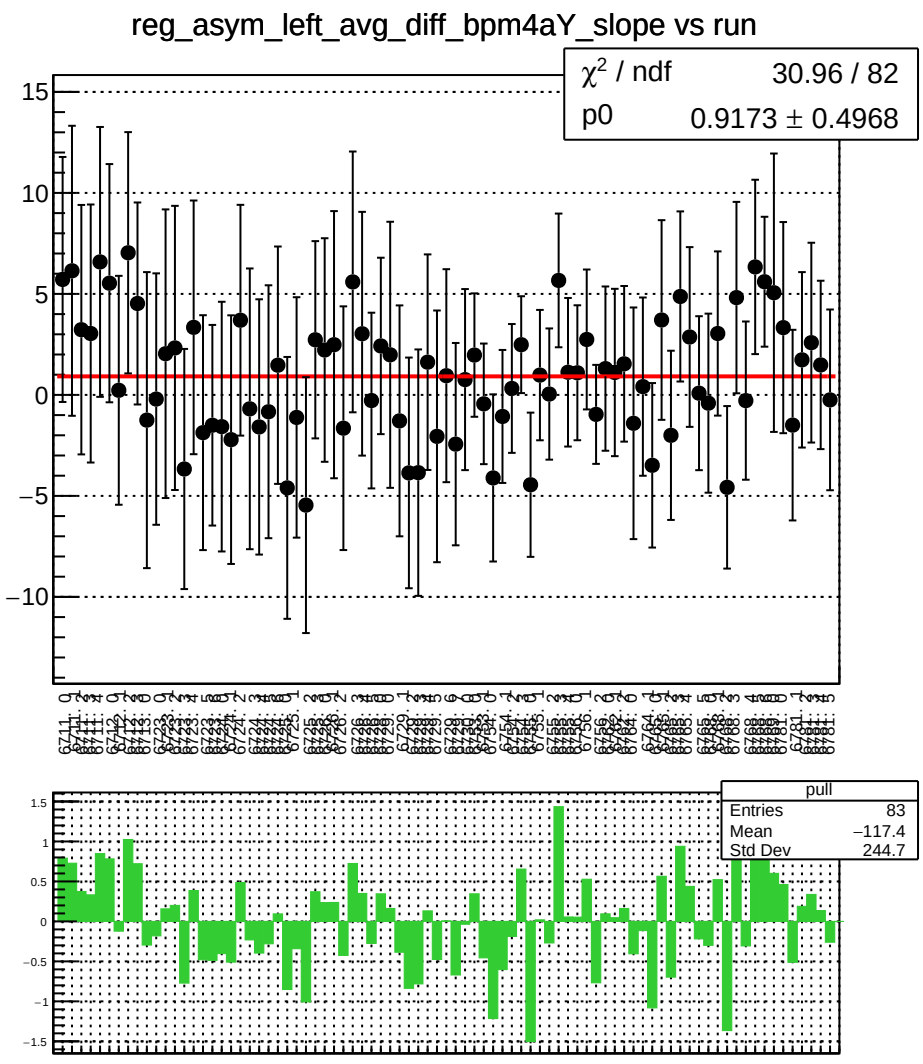

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.62 / 82
p0 0.04844 ± 0.06547
pull
Entries 83
Mean 3469
Std Dev 3424

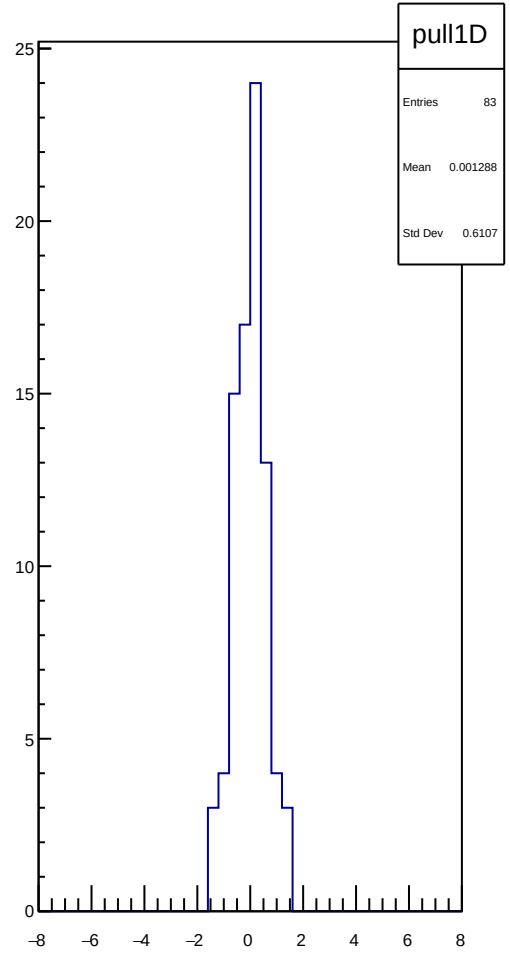

pull1D
Entries 83
Mean −0.001233
Std Dev 0.9856

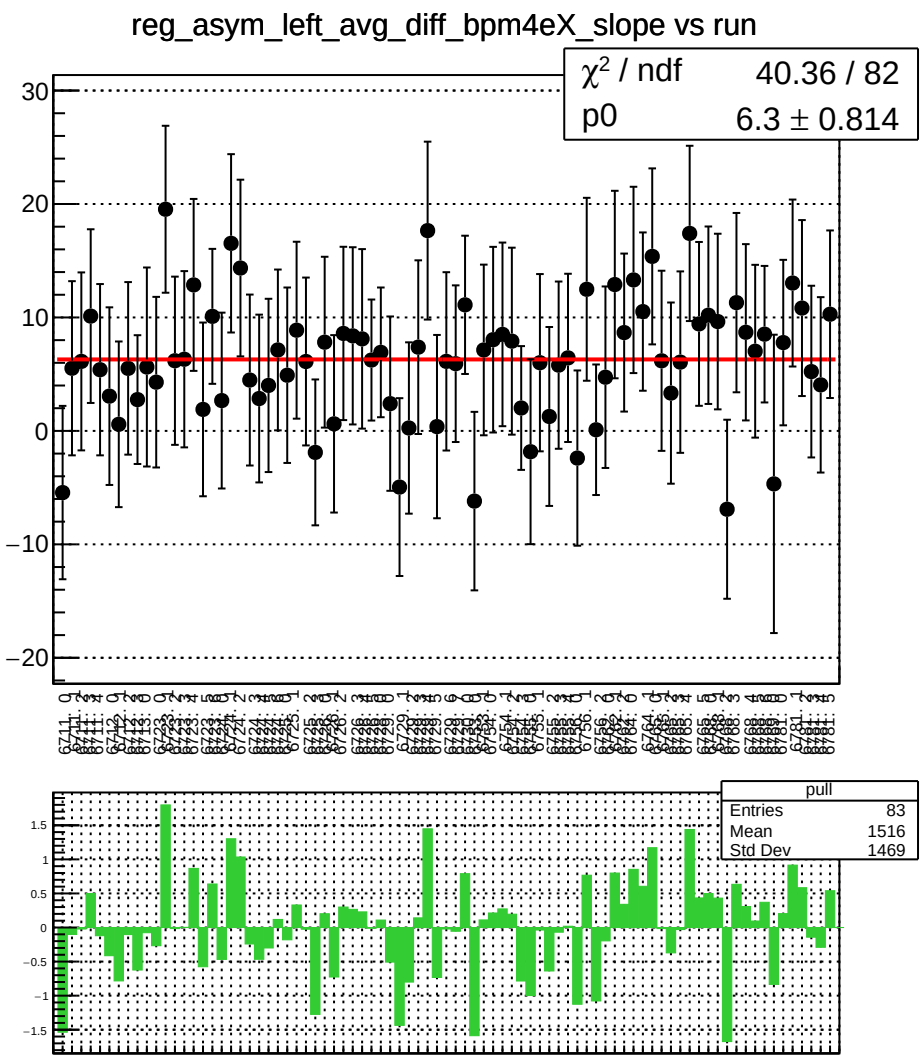

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 106.3 / 82
p0 −0.008432 ± 0.003837
pull
Entries 83
Mean −100.2
Std Dev 167.6

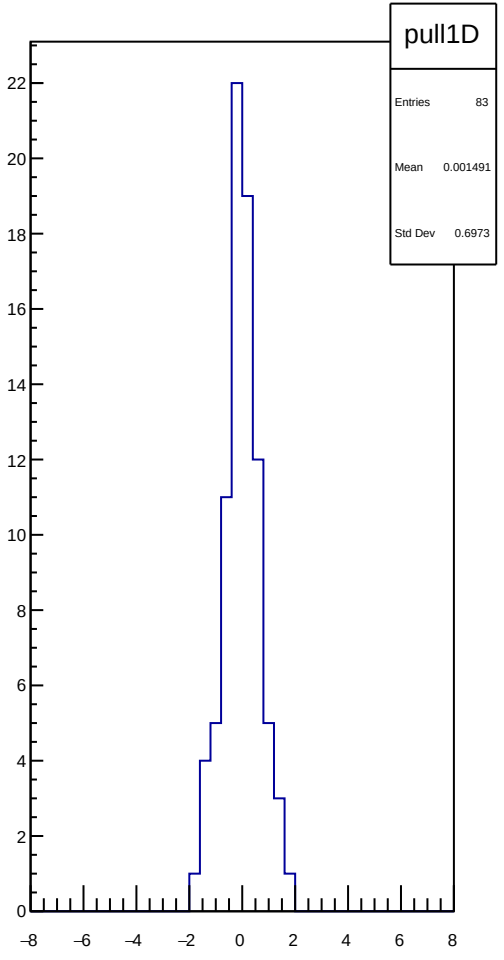

pull1D
Entries 83
Mean 0.009489
Std Dev 1.132

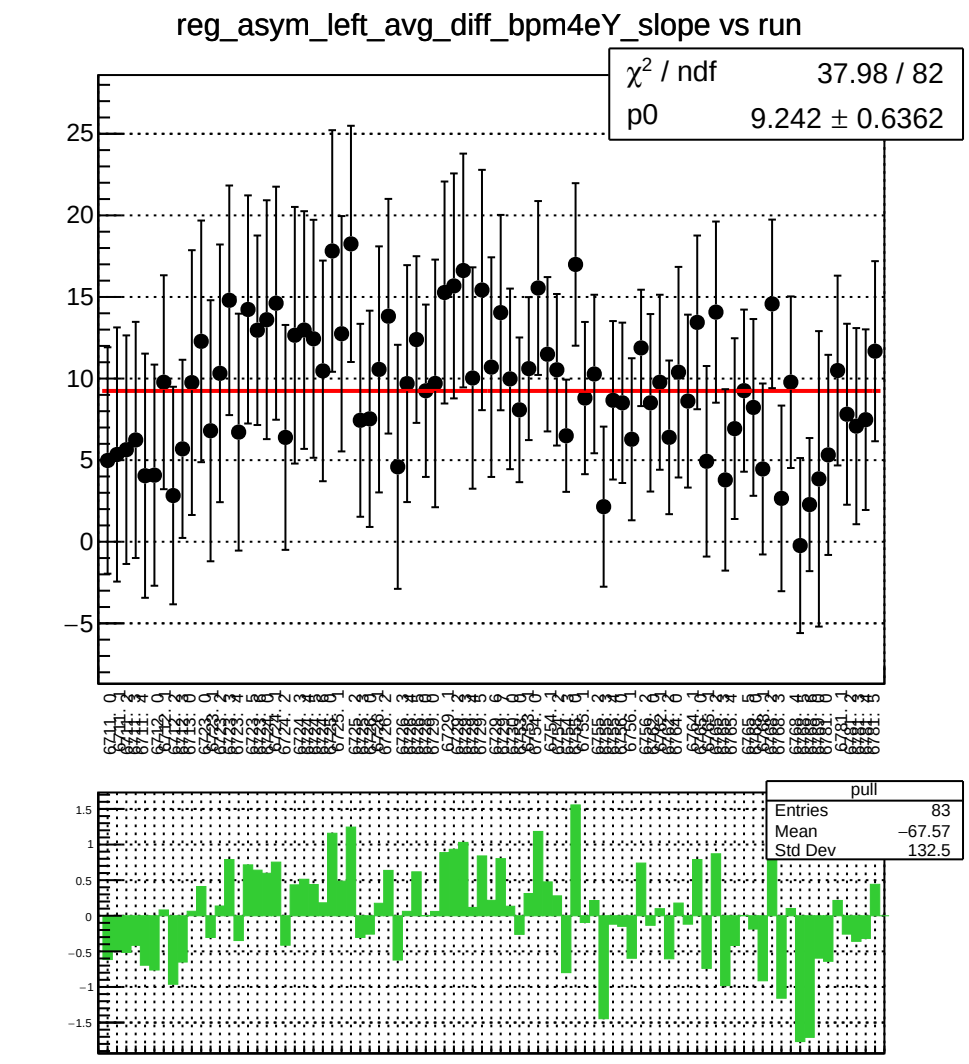

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 45.46 / 82
p0 −36.88 ± 0.8512
pull
Entries 83
Mean 757.7
Std Dev 713.3
pull1D
Entries 83
Mean −0.009429
Std Dev 0.74

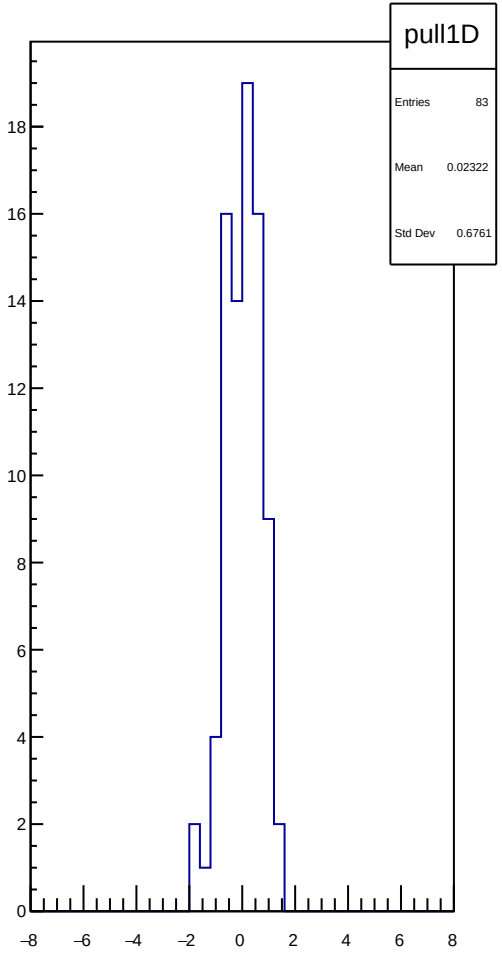

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.96 / 82
p0 0.9173 ± 0.4968
pull
Entries 83
Mean −117.4
Std Dev 244.7

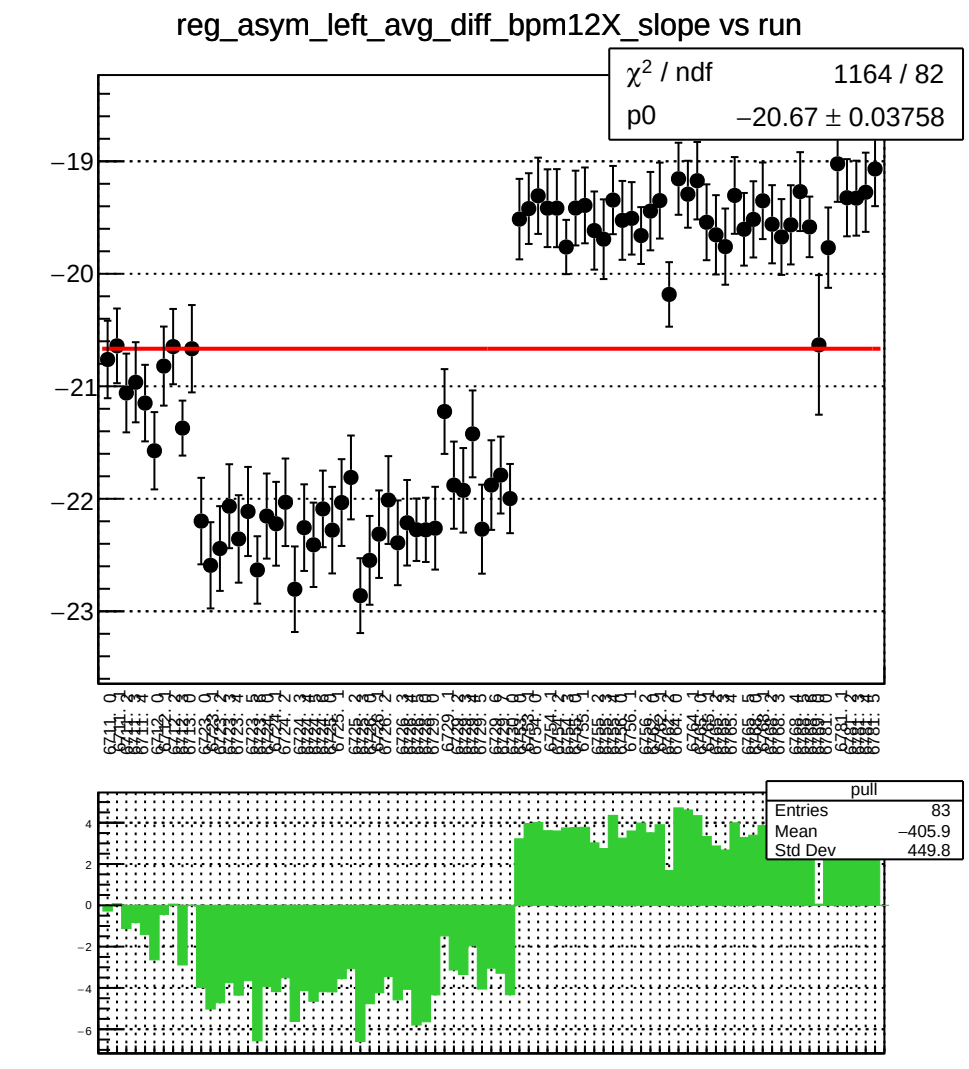

pull1D
Entries 83
Mean 0.001288
Std Dev 0.6107

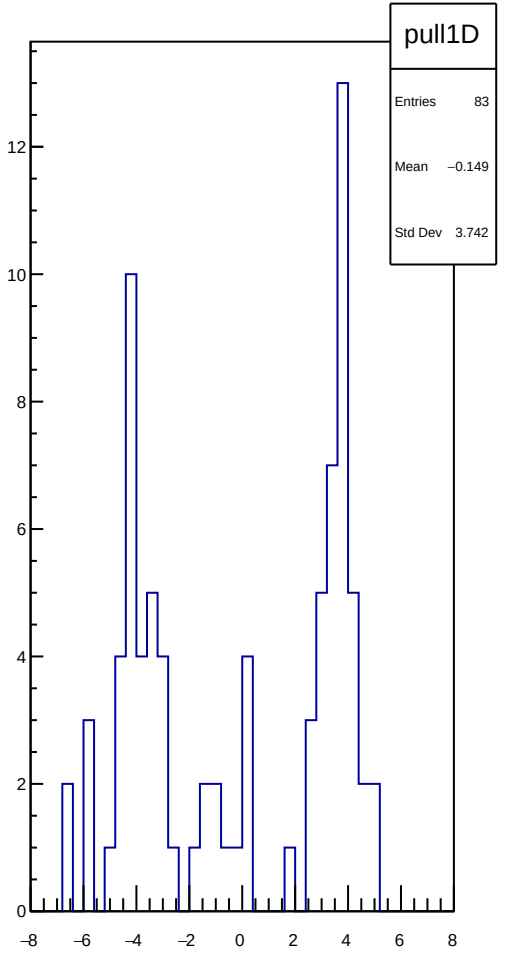

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.36 / 82
p0 6.3 ± 0.814
pull
Entries 83
Mean 1516
Std Dev 1469

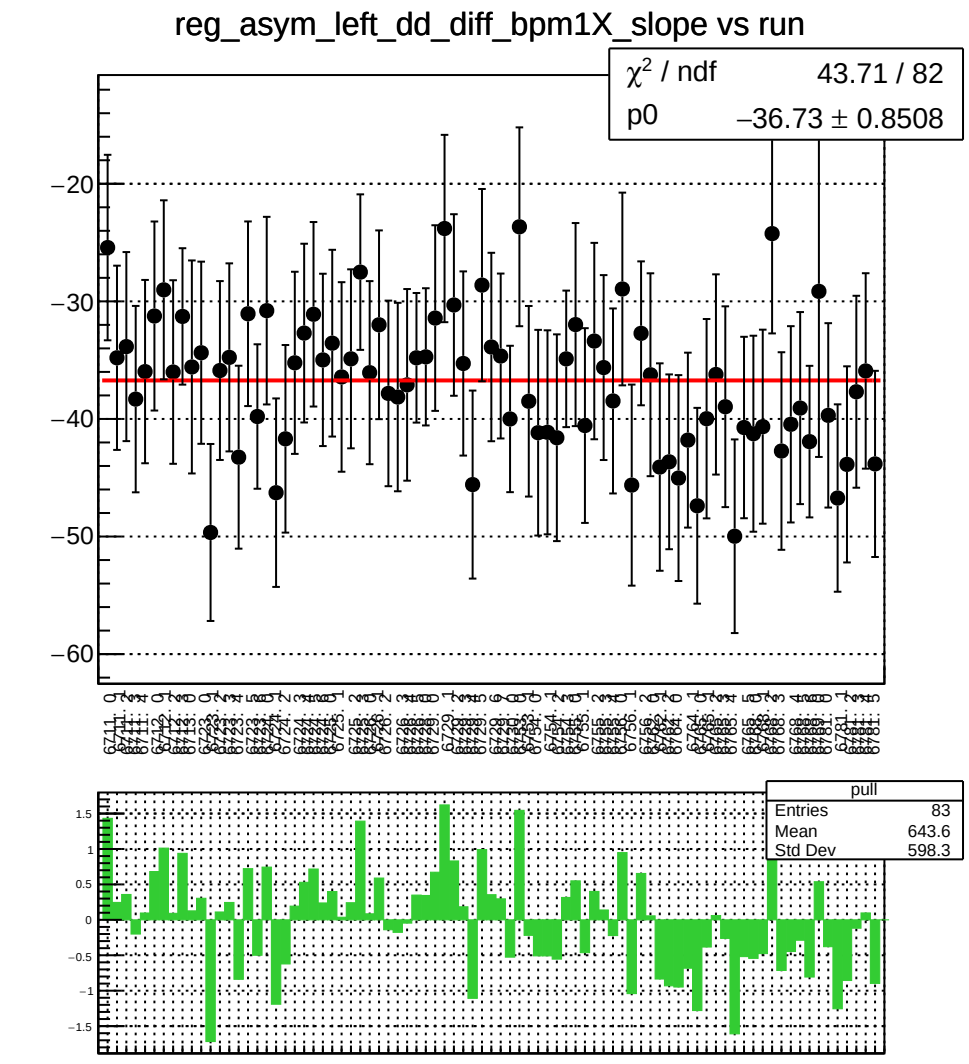

pull1D
Entries 83
Mean 0.001491
Std Dev 0.6973

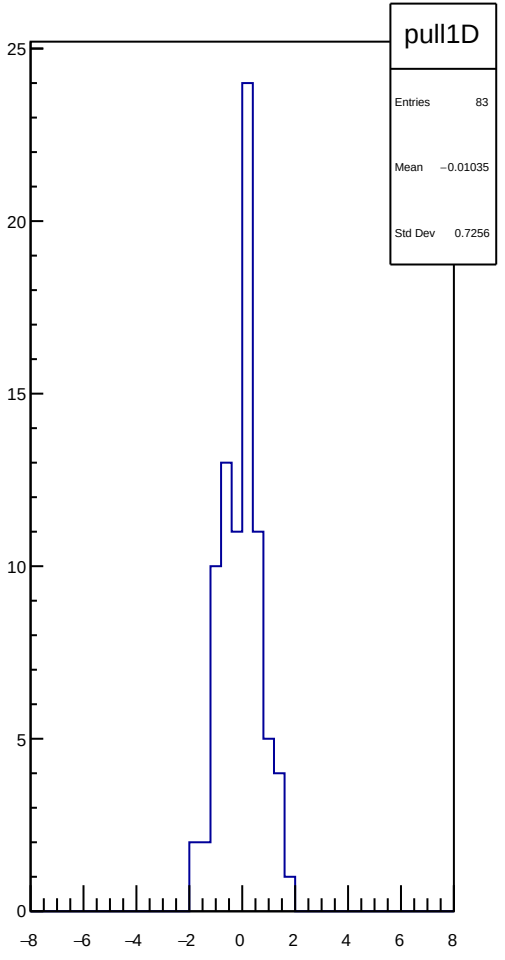

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.98 / 82
p0 9.242 ± 0.6362
pull
Entries 83
Mean −67.57
Std Dev 132.5

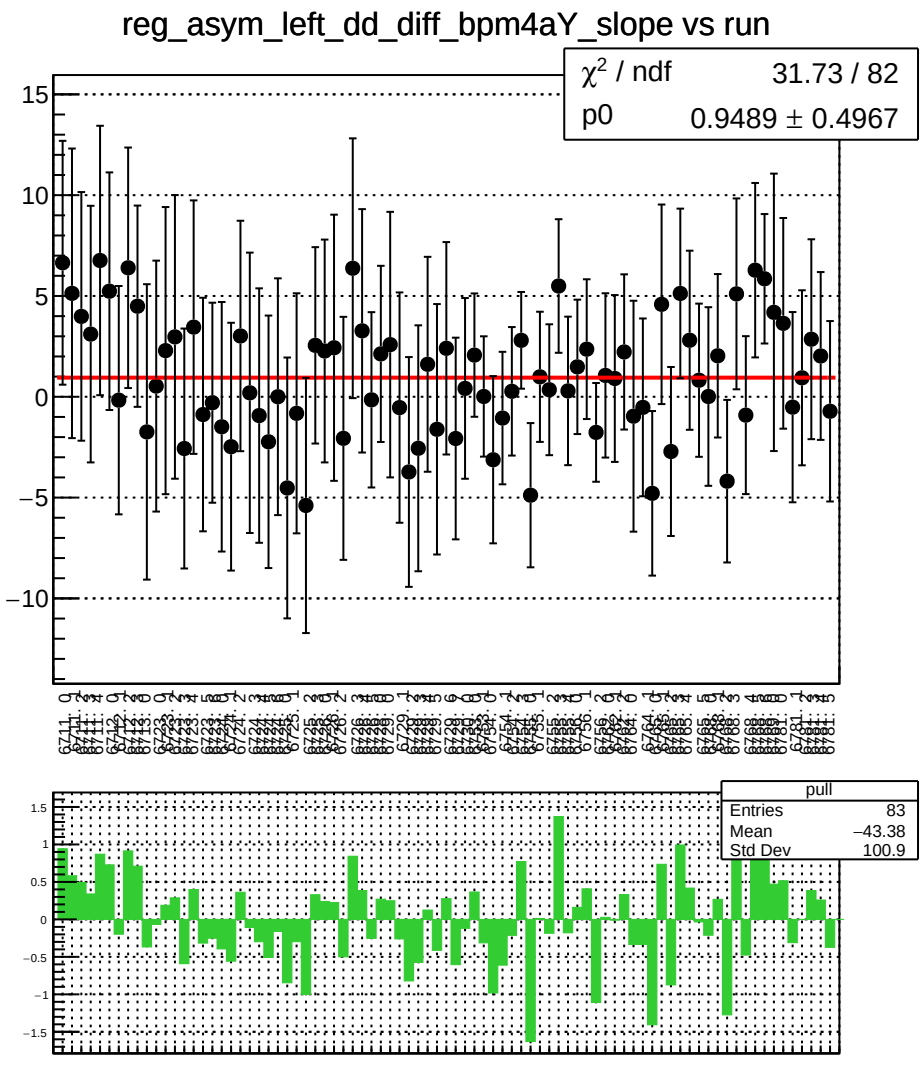

pull1D
Entries 83
Mean 0.02322
Std Dev 0.6761

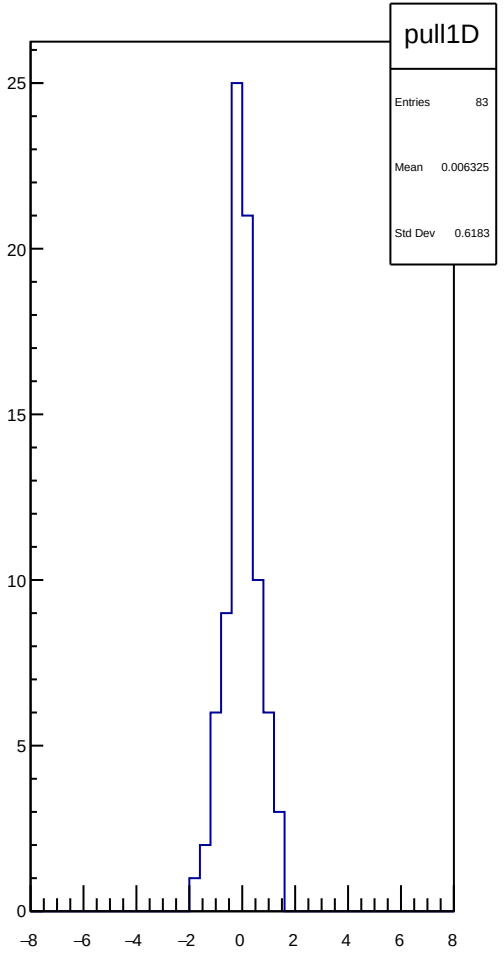

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 1164 / 82
p0 −20.67 ± 0.03758
−19
−20
−21
−22
−23
pull
Entries 83
Mean −405.9
Std Dev 449.8
4
2
0
−2
−4
−6

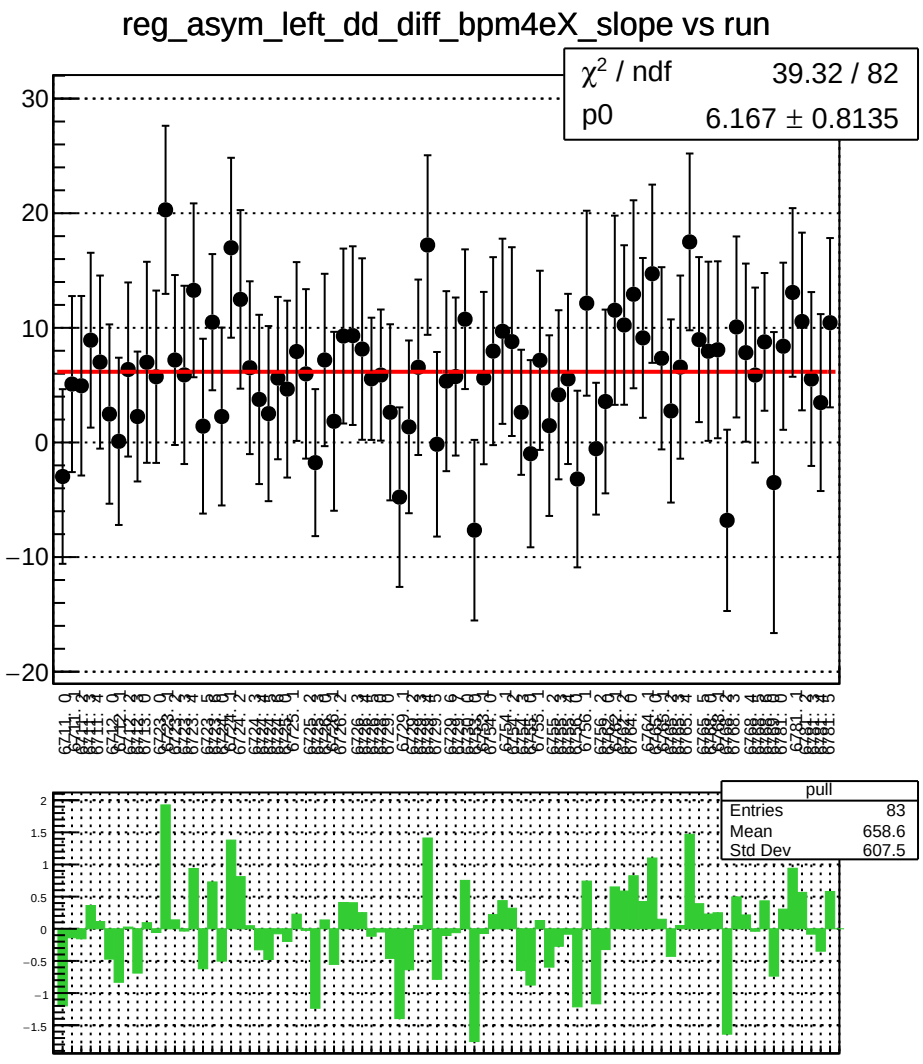

pull1D
Entries 83
Mean −0.149
Std Dev 3.742
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

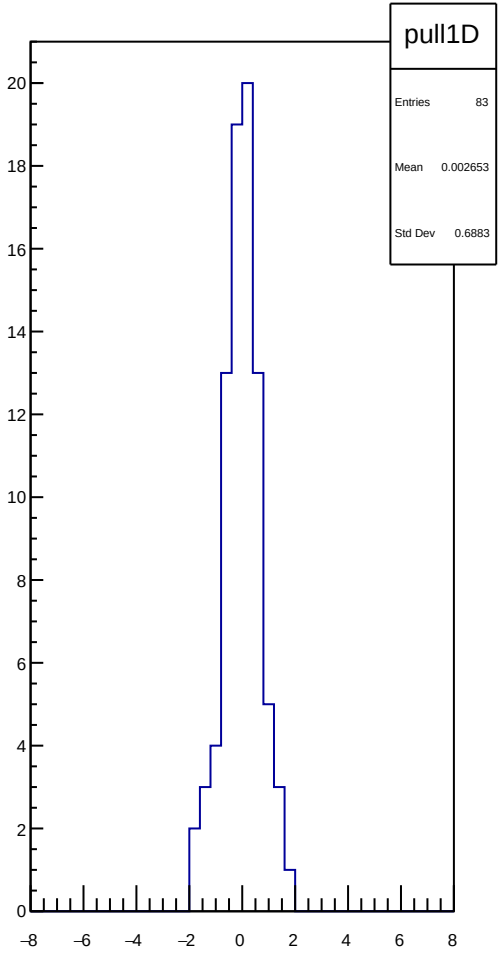

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 43.71 / 82
p0 −36.73 ± 0.8508
pull
Entries 83
Mean 643.6
Std Dev 598.3

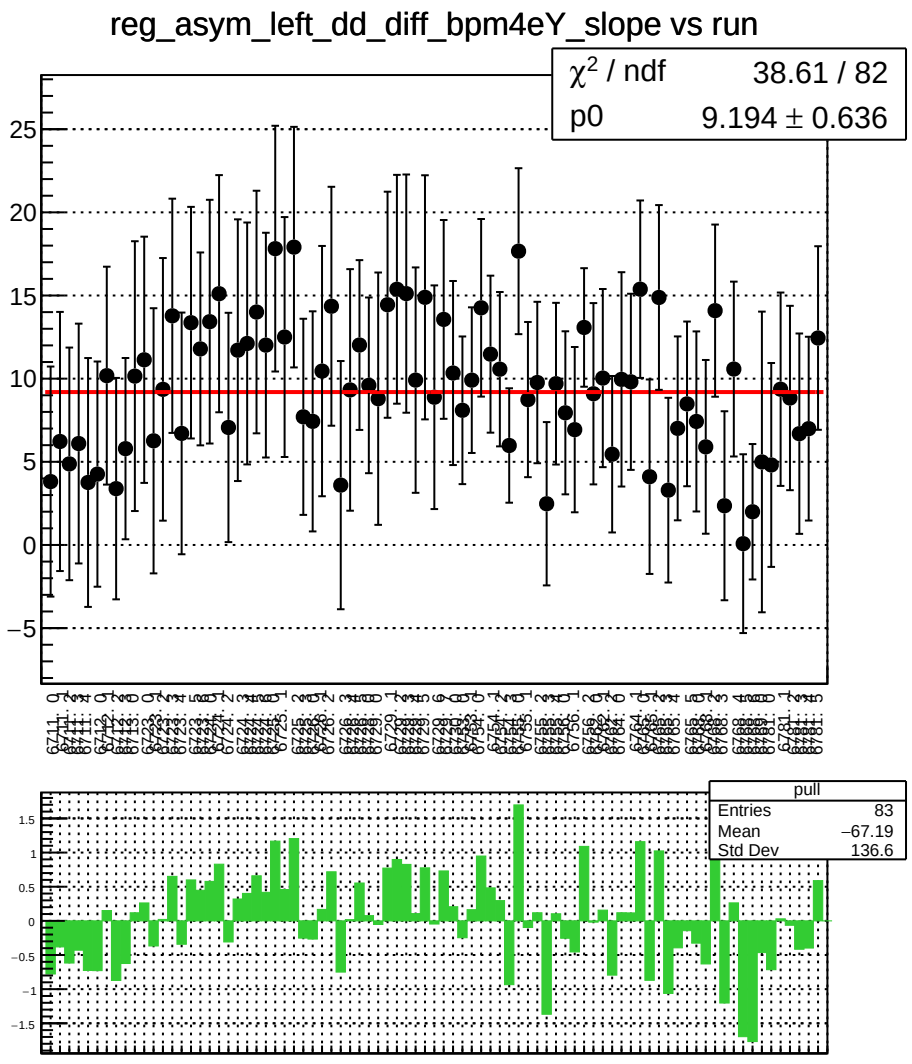

pull1D
Entries 83
Mean −0.01035
Std Dev 0.7256

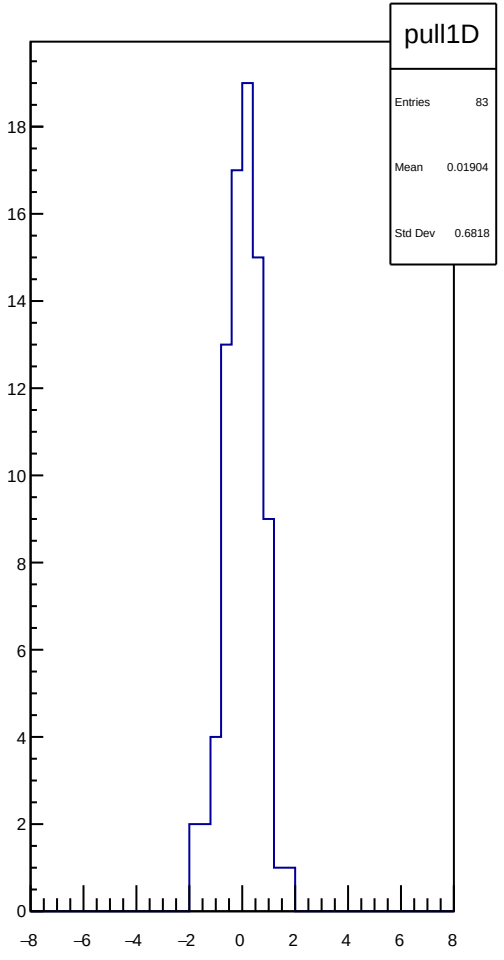

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.73 / 82
p0 0.9489 ± 0.4967
pull
Entries 83
Mean −43.38
Std Dev 100.9

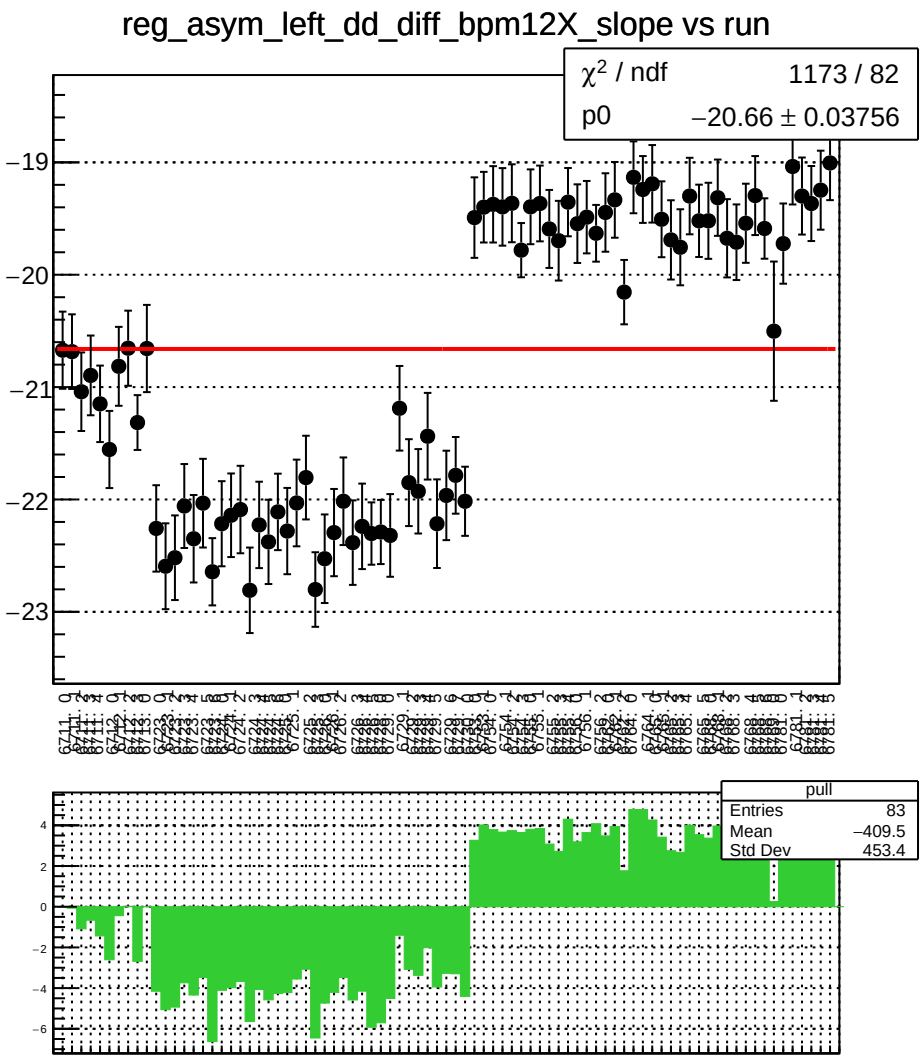

pull1D
Entries 83
Mean 0.006325
Std Dev 0.6183

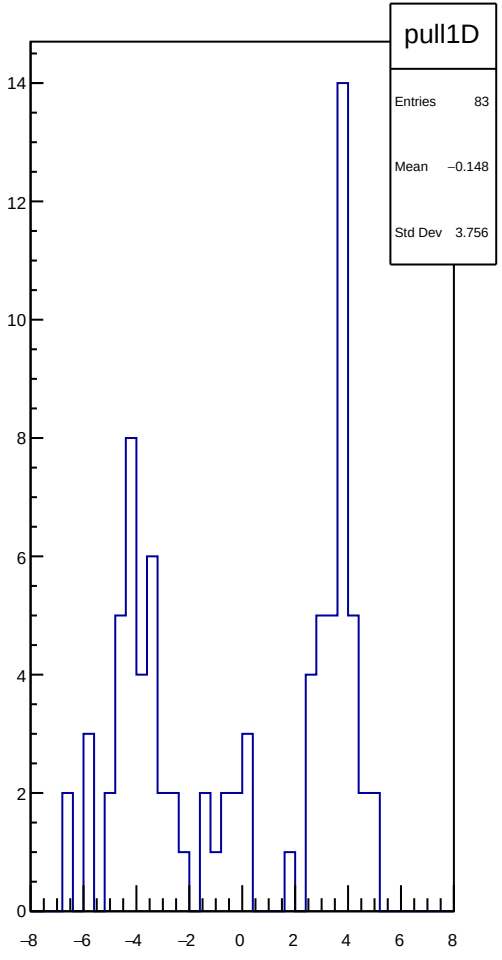

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.32 / 82
p0 6.167 ± 0.8135
pull
Entries 83
Mean 658.6
Std Dev 607.5

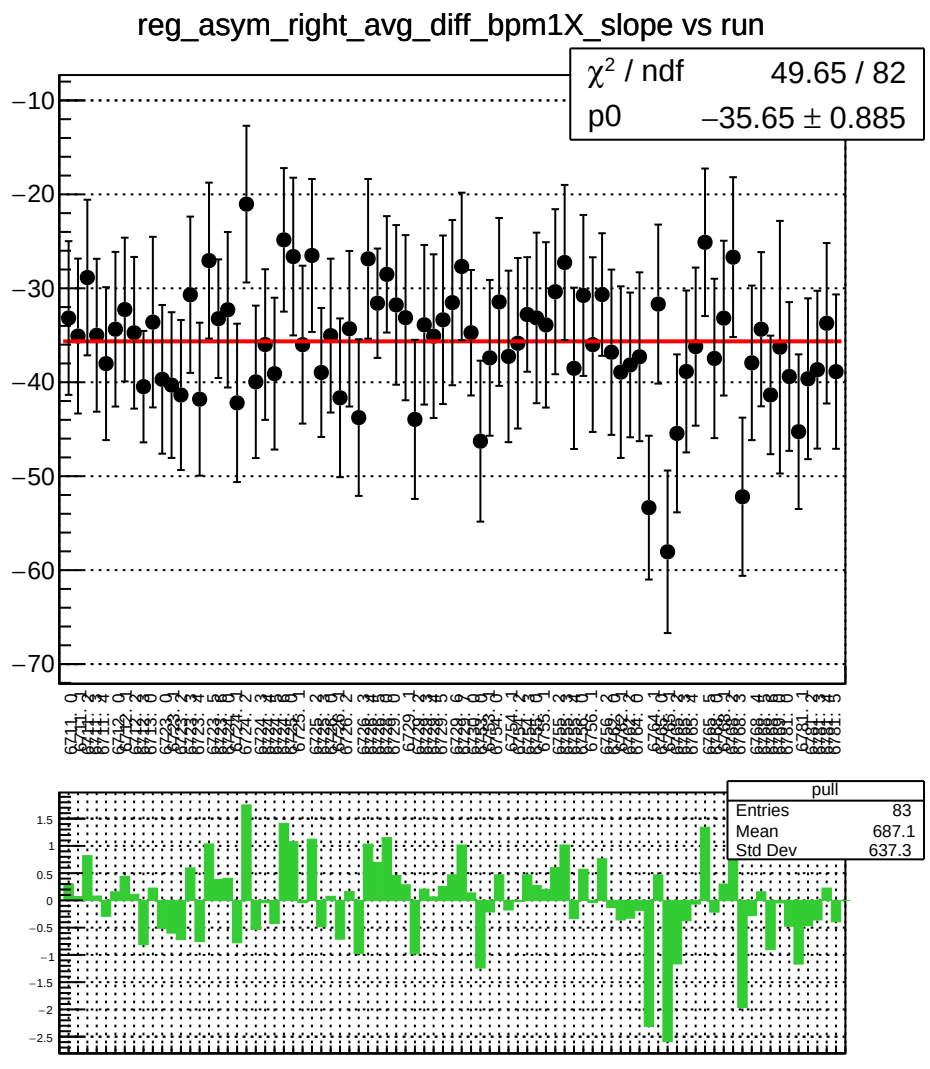

pull1D
Entries 83
Mean 0.002653
Std Dev 0.6883

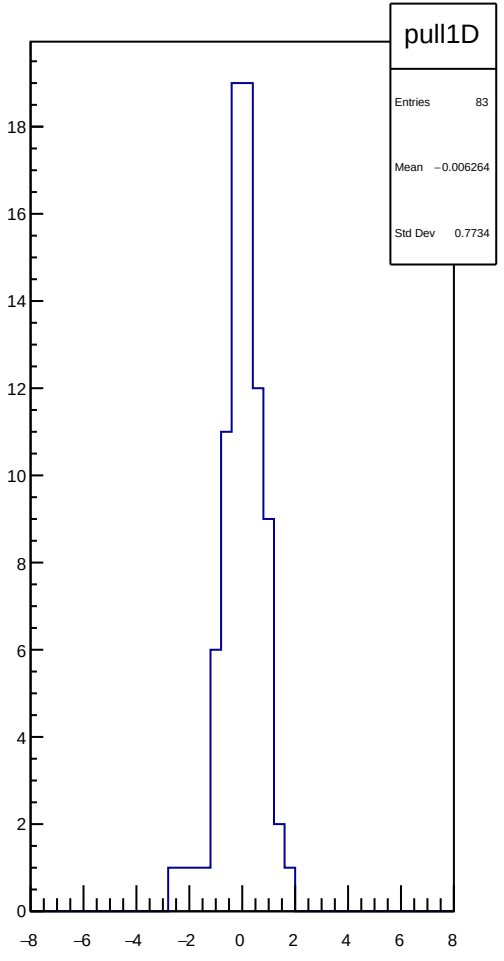

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 38.61 / 82
p0 9.194 ± 0.636
pull
Entries 83
Mean −67.19
Std Dev 136.6

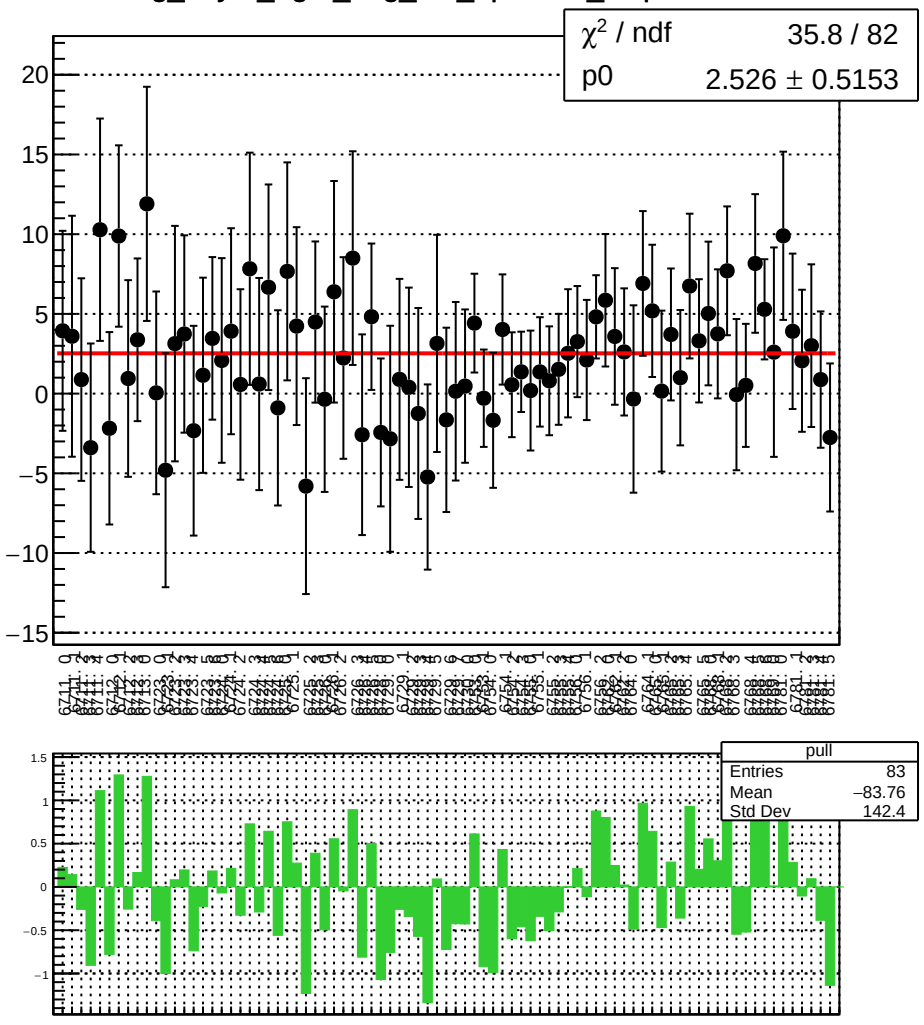

pull1D
Entries 83
Mean 0.01904
Std Dev 0.6818

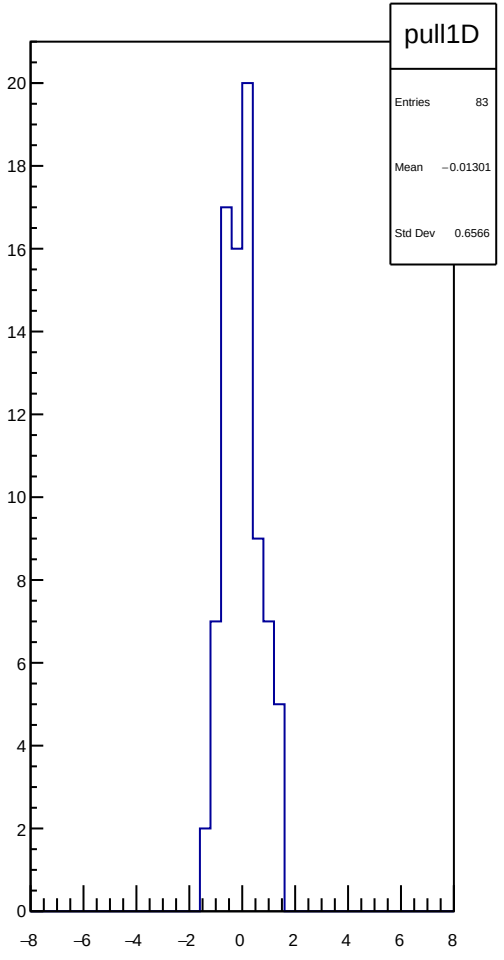

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 1173 / 82
p0 −20.66 ± 0.03756
pull
Entries 83
Mean −409.5
Std Dev 453.4

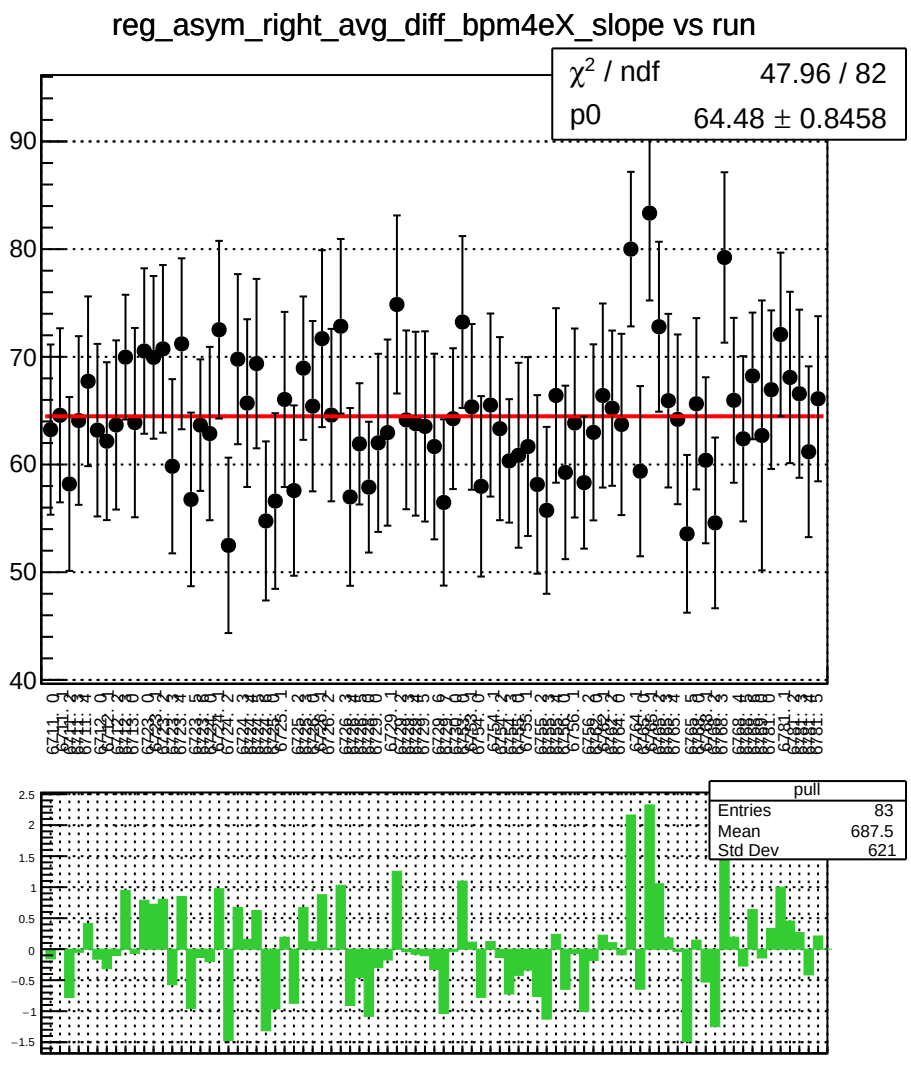

pull1D
Entries 83
Mean −0.148
Std Dev 3.756

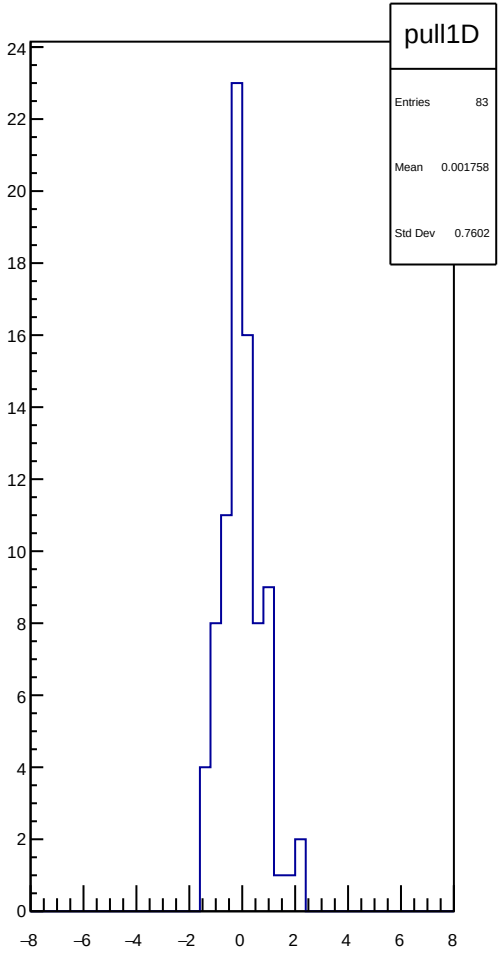

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 49.65 / 82
p0 −35.65 ± 0.885
pull
Entries 83
Mean 687.1
Std Dev 637.3

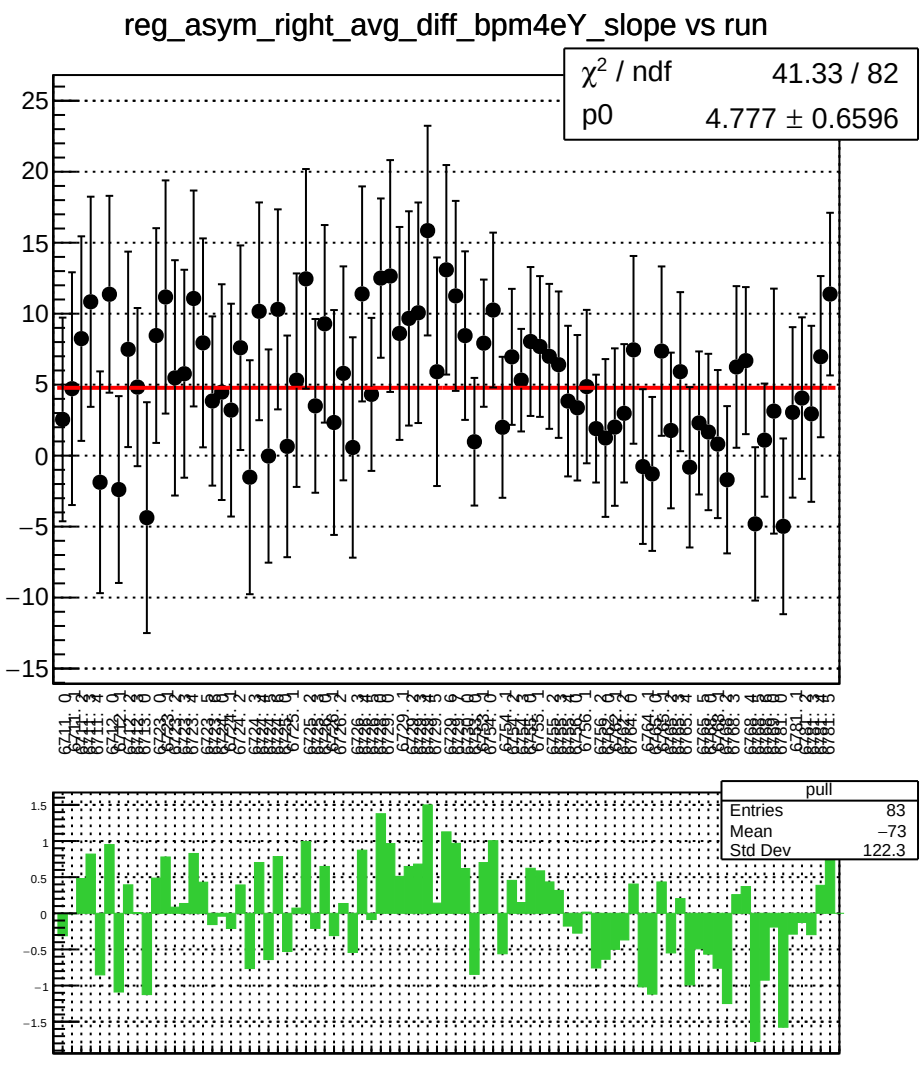

pull1D
Entries 83
Mean −0.006264
Std Dev 0.7734

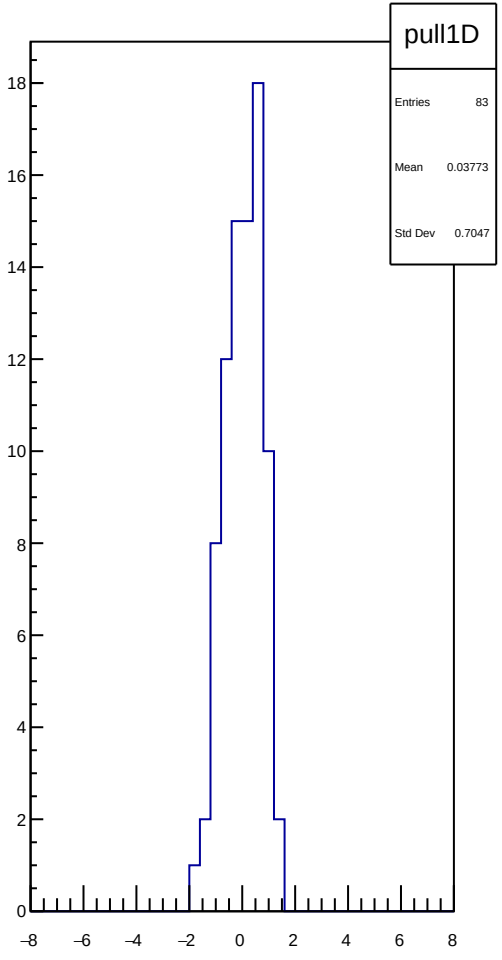

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.8 / 82
p0 2.526 ± 0.5153
pull
Entries 83
Mean −83.76
Std Dev 142.4

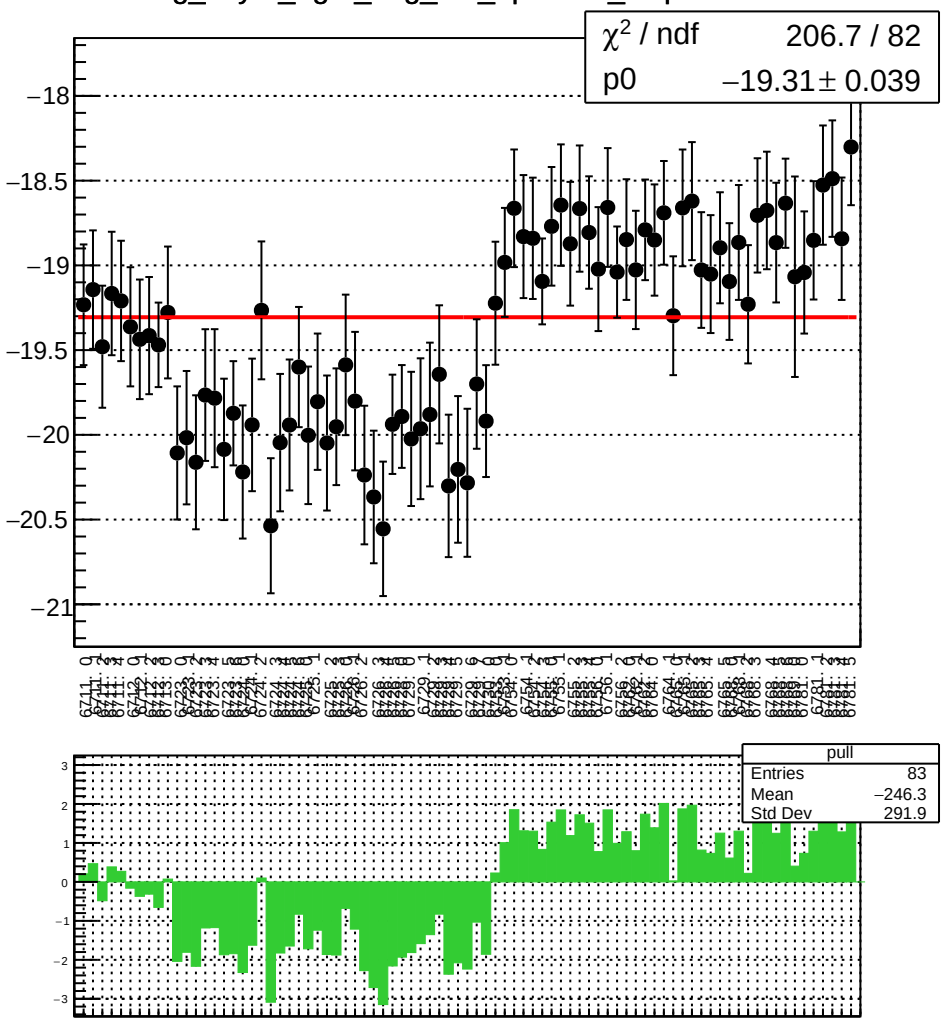

pull1D
Entries 83
Mean −0.01301
Std Dev 0.6566

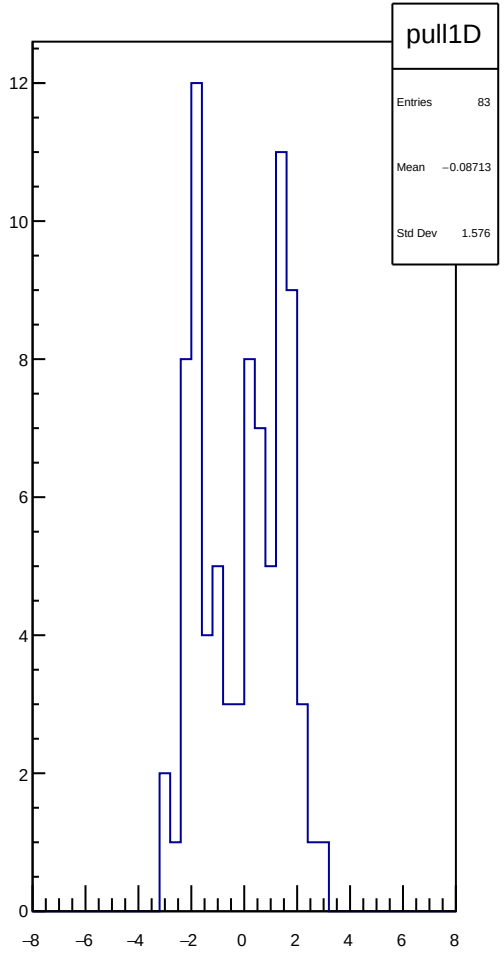

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.96 / 82
p0 64.48 ± 0.8458
pull
Entries 83
Mean 687.5
Std Dev 621

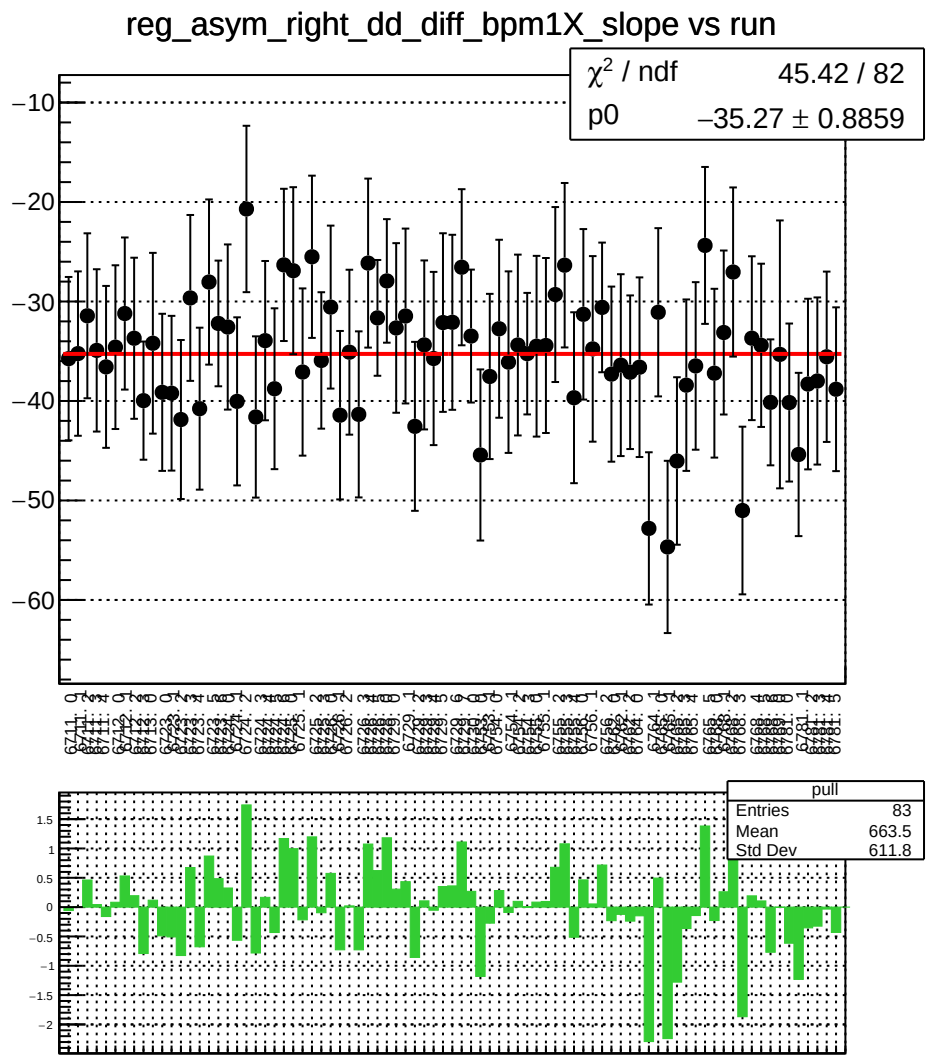

pull1D
Entries 83
Mean 0.001758
Std Dev 0.7602

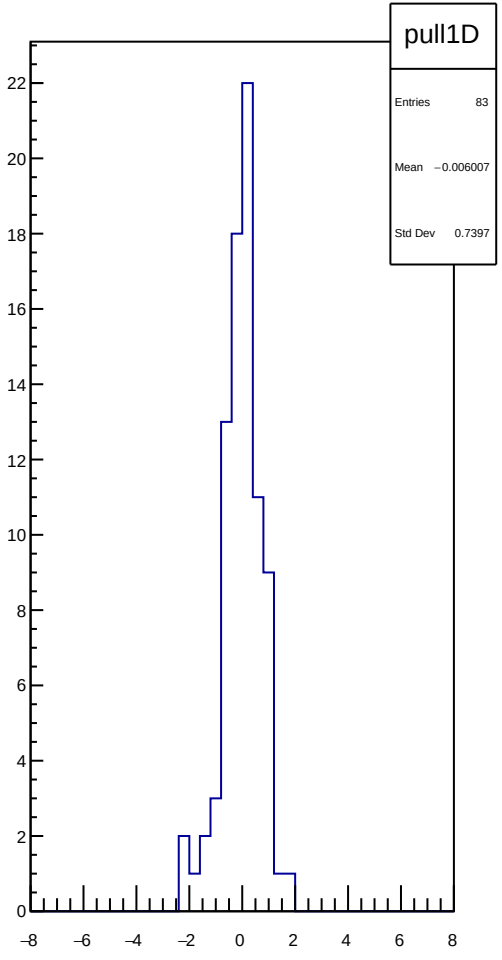

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.33 / 82
p0 4.777 ± 0.6596
pull
Entries 83
Mean −73
Std Dev 122.3

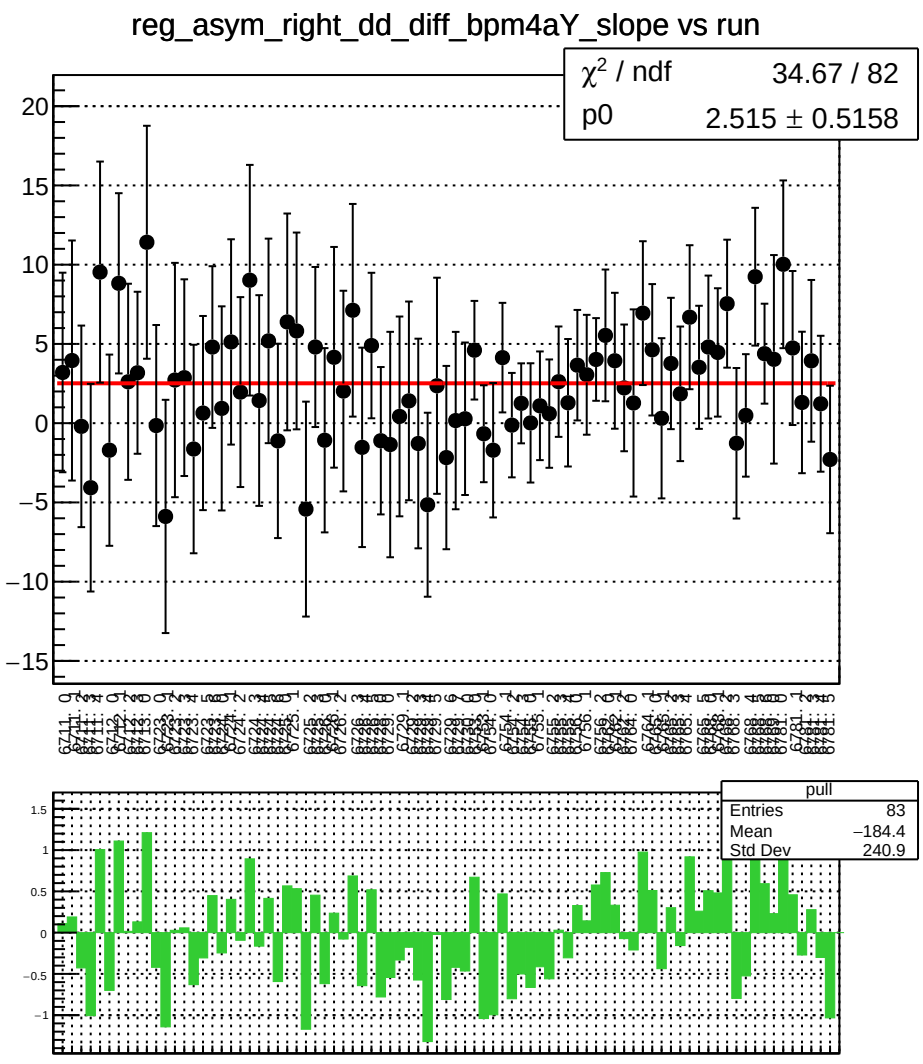

pull1D
Entries 83
Mean 0.03773
Std Dev 0.7047

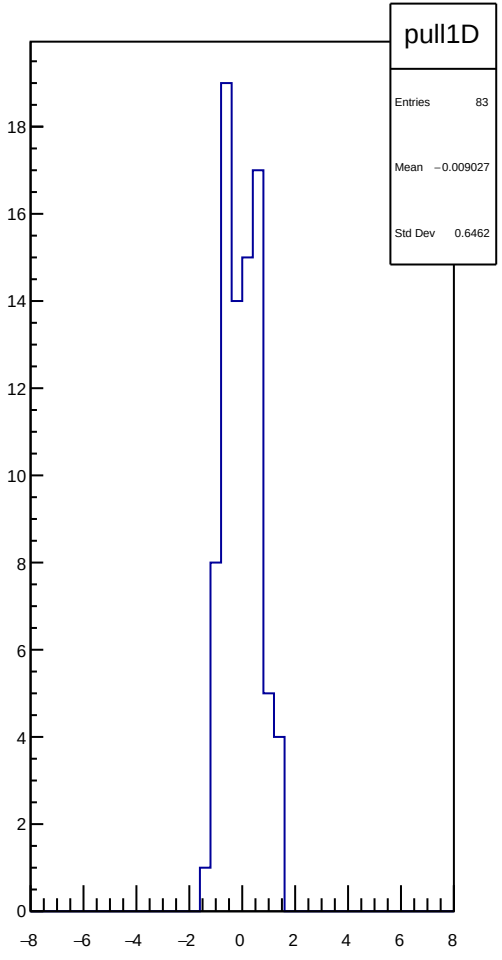

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 206.7 / 82
p0 −19.31 ± 0.039
−18
−18.5
−19
−19.5
−20
−20.5
−21
pull
Entries 83
Mean −246.3
Std Dev 291.9
3
2
1
0
−1
−2
−3

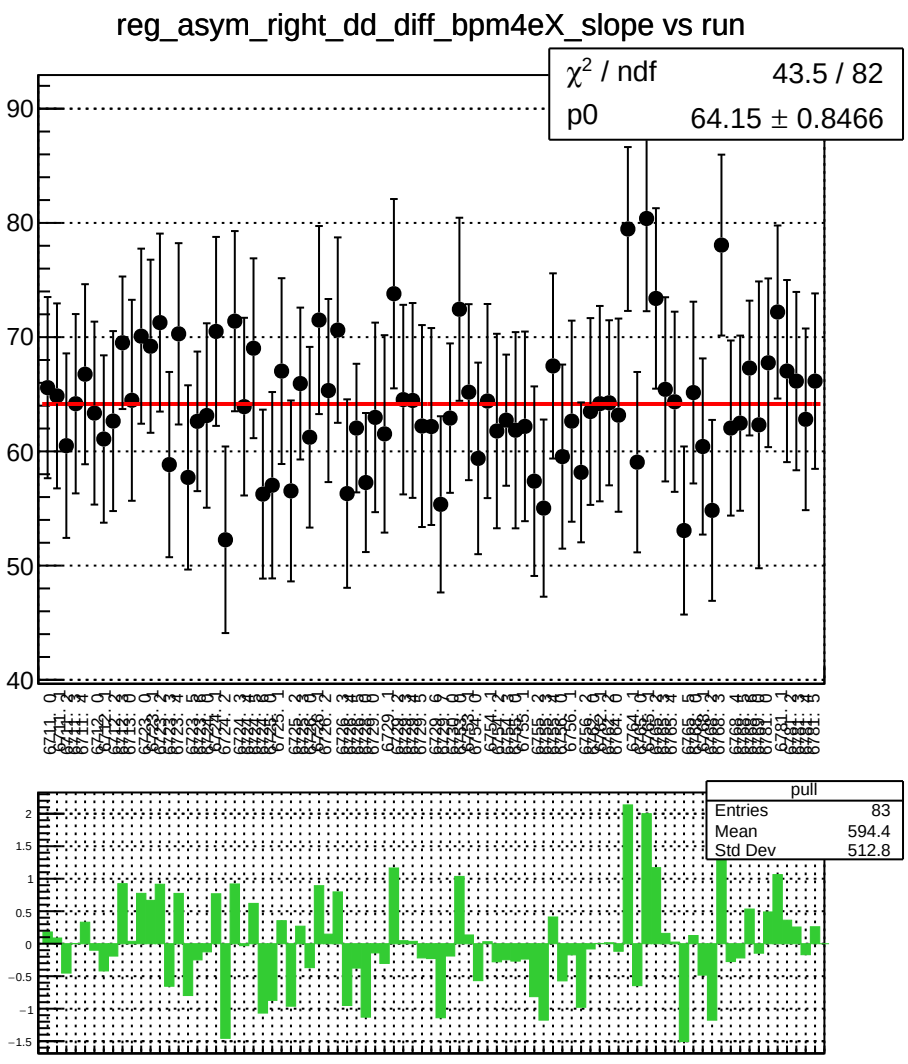

pull1D
Entries 83
Mean −0.08713
Std Dev 1.576
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

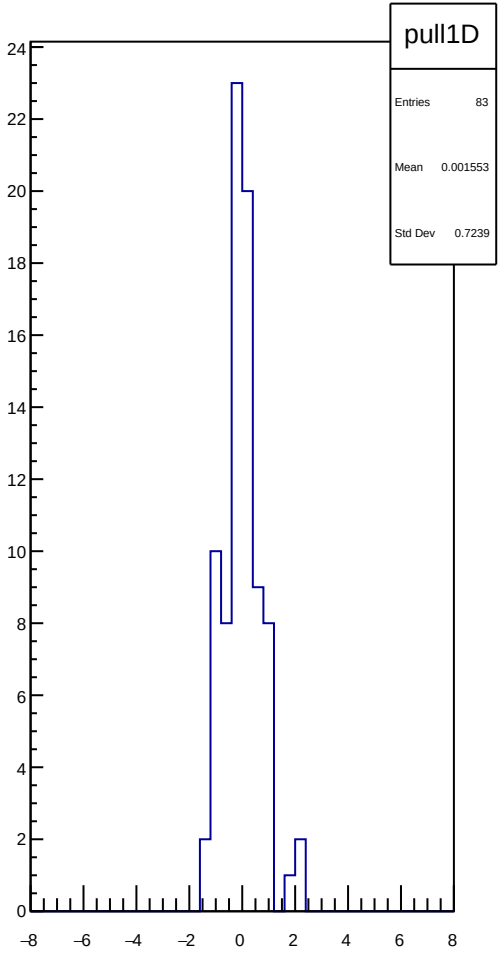

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 45.42 / 82
p0 −35.27 ± 0.8859
pull
Entries 83
Mean 663.5
Std Dev 611.8

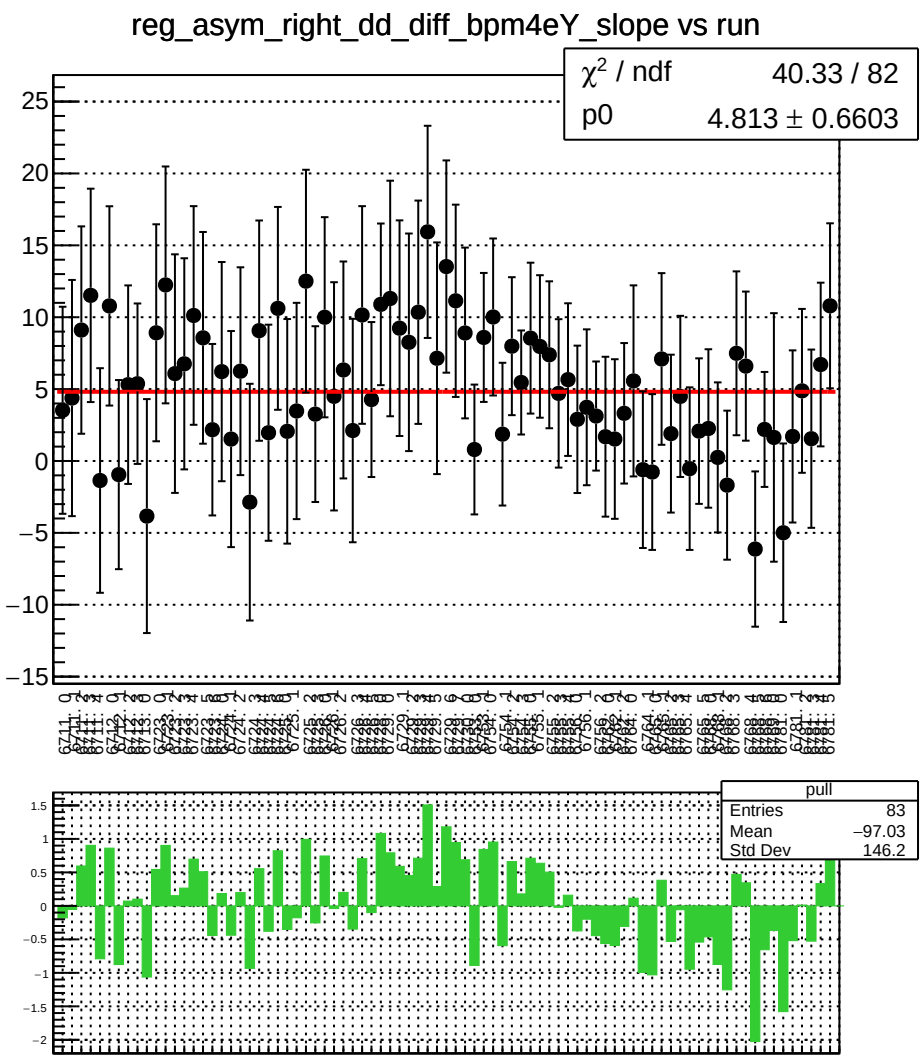

pull1D
Entries 83
Mean −0.006007
Std Dev 0.7397

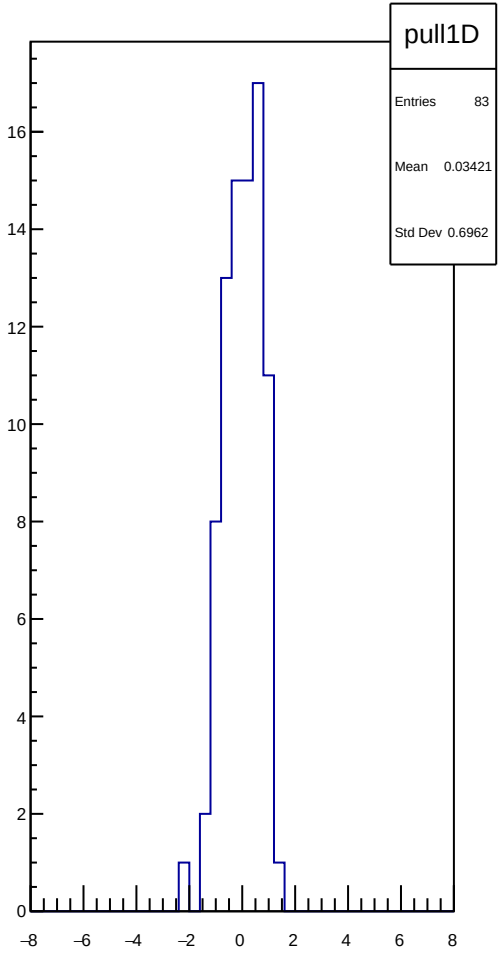

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.67 / 82
p0 2.515 ± 0.5158
pull
Entries 83
Mean −184.4
Std Dev 240.9

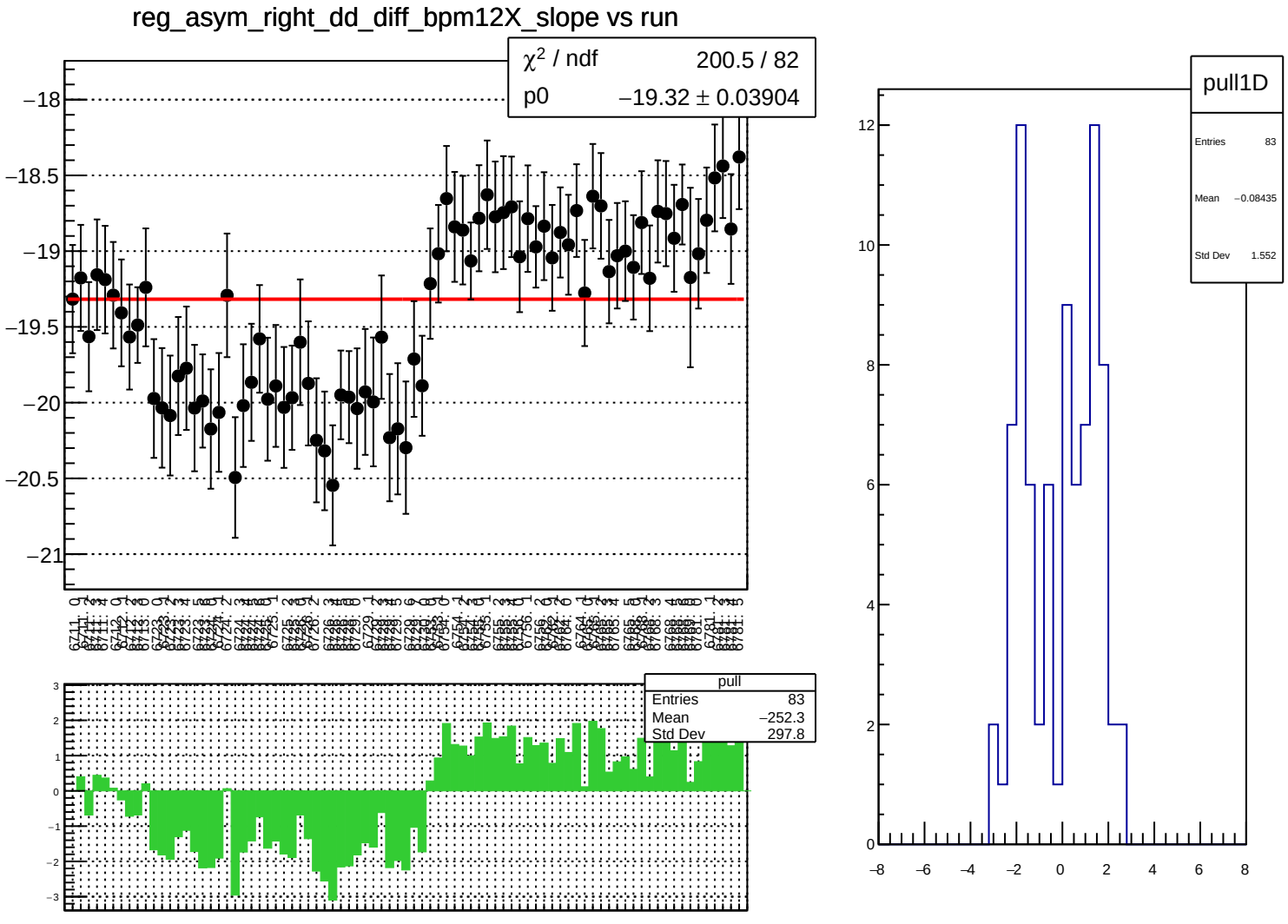

pull1D
Entries 83
Mean −0.009027
Std Dev 0.6462

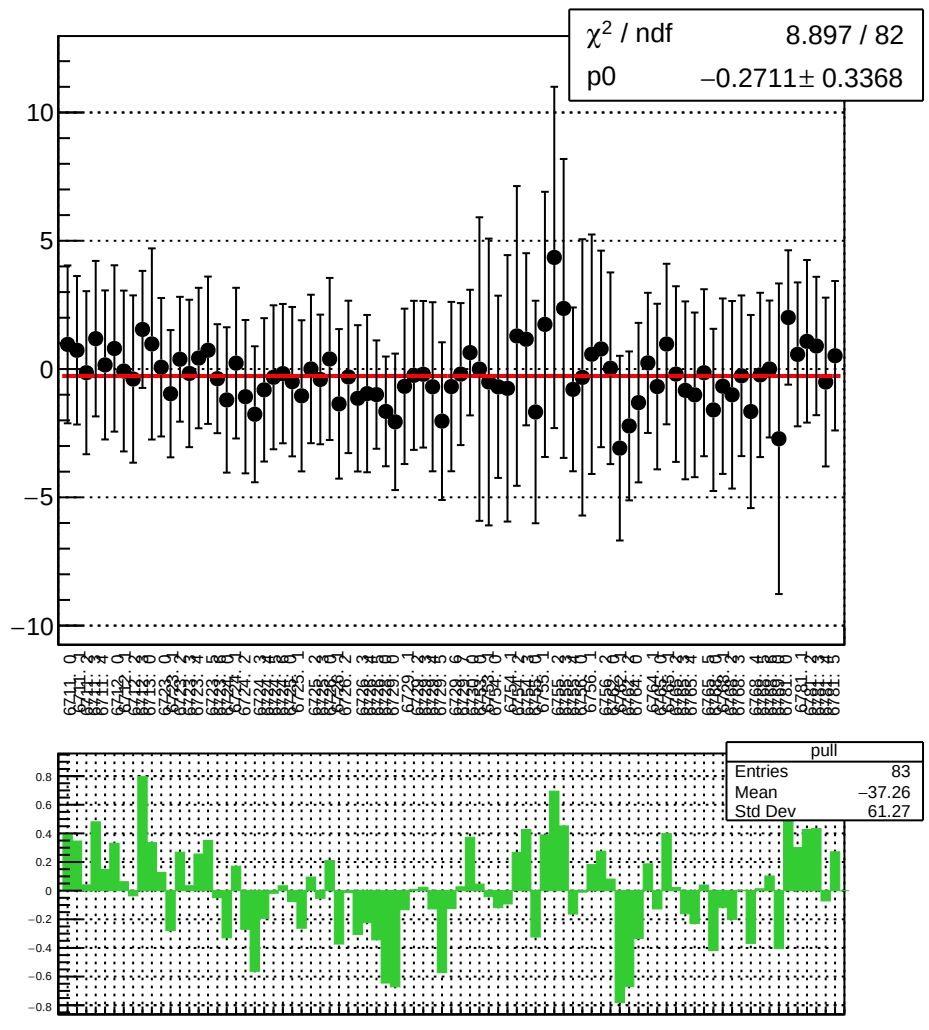

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.5 / 82
p0 64.15 ± 0.8466
pull
Entries 83
Mean 594.4
Std Dev 512.8

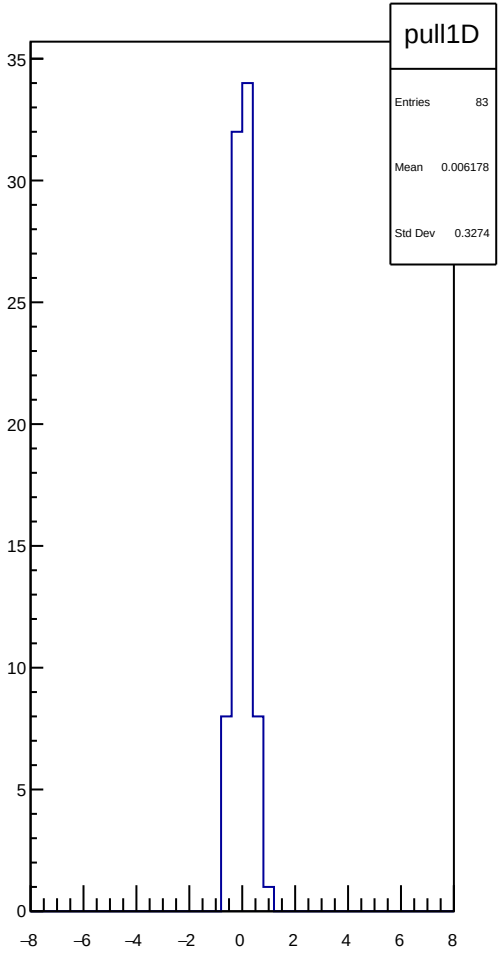

pull1D
Entries 83
Mean 0.001553
Std Dev 0.7239

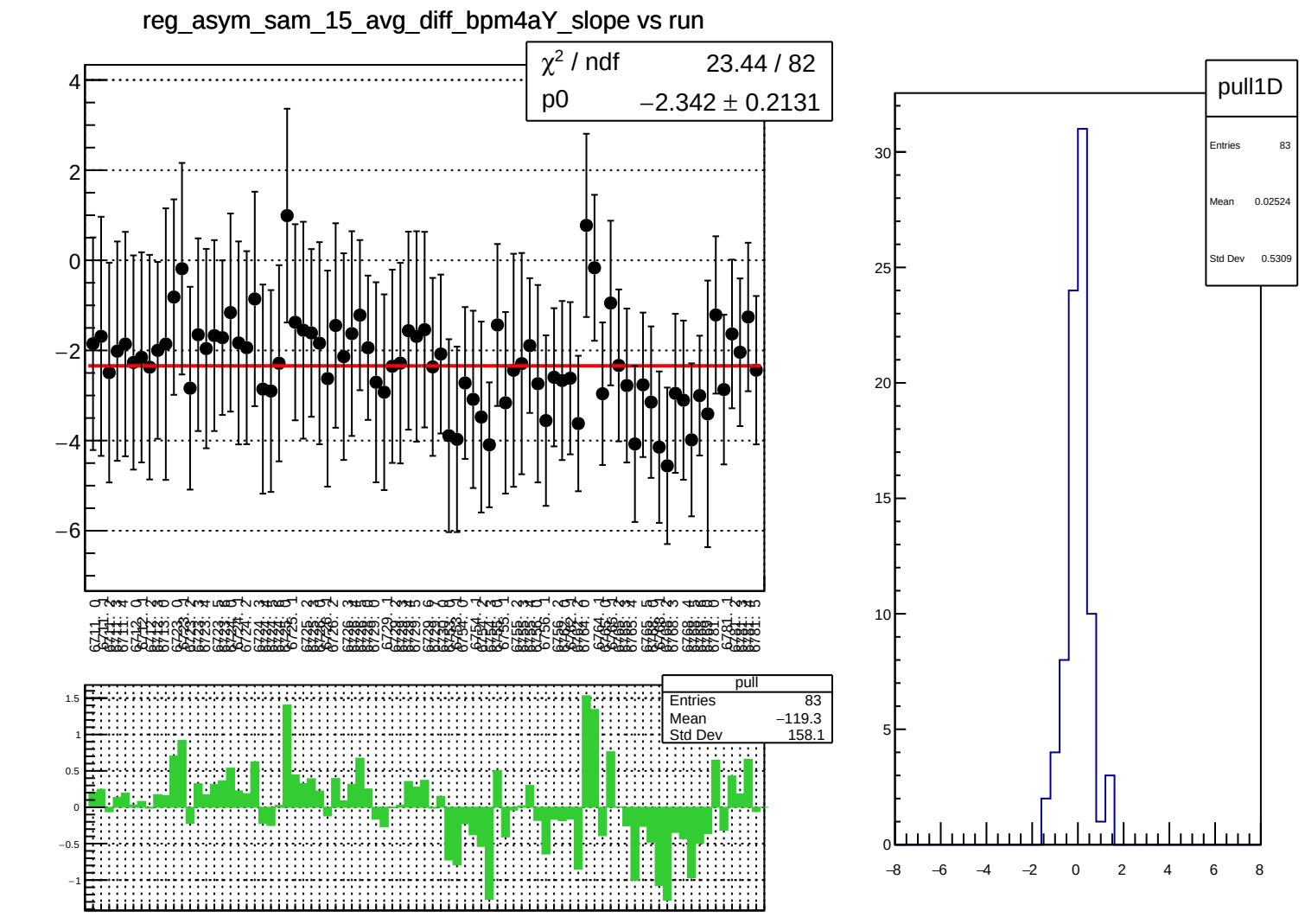

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.33 / 82
p0 4.813 ± 0.6603
pull
Entries 83
Mean −97.03
Std Dev 146.2

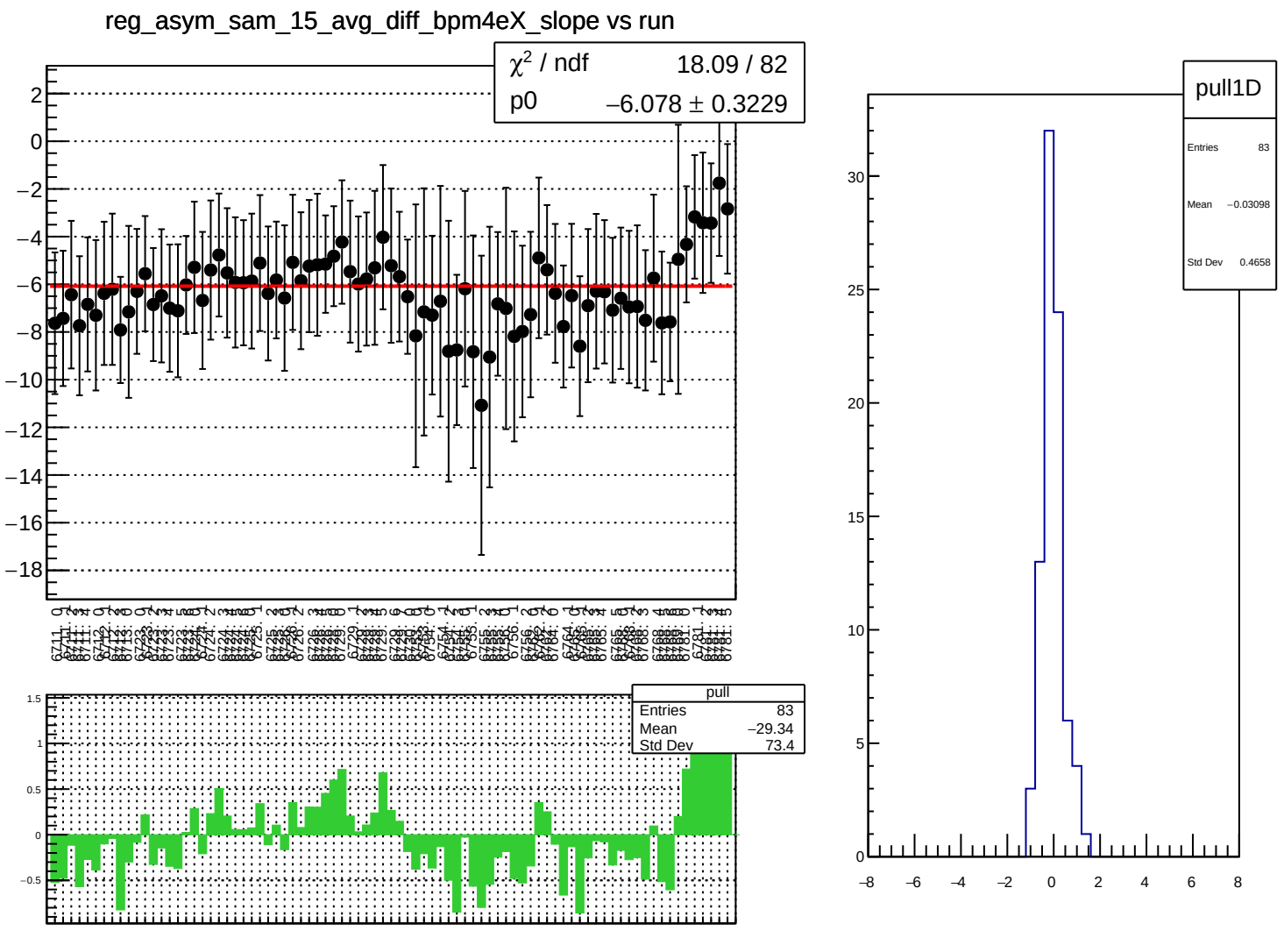

pull1D
Entries 83
Mean 0.03421
Std Dev 0.6962

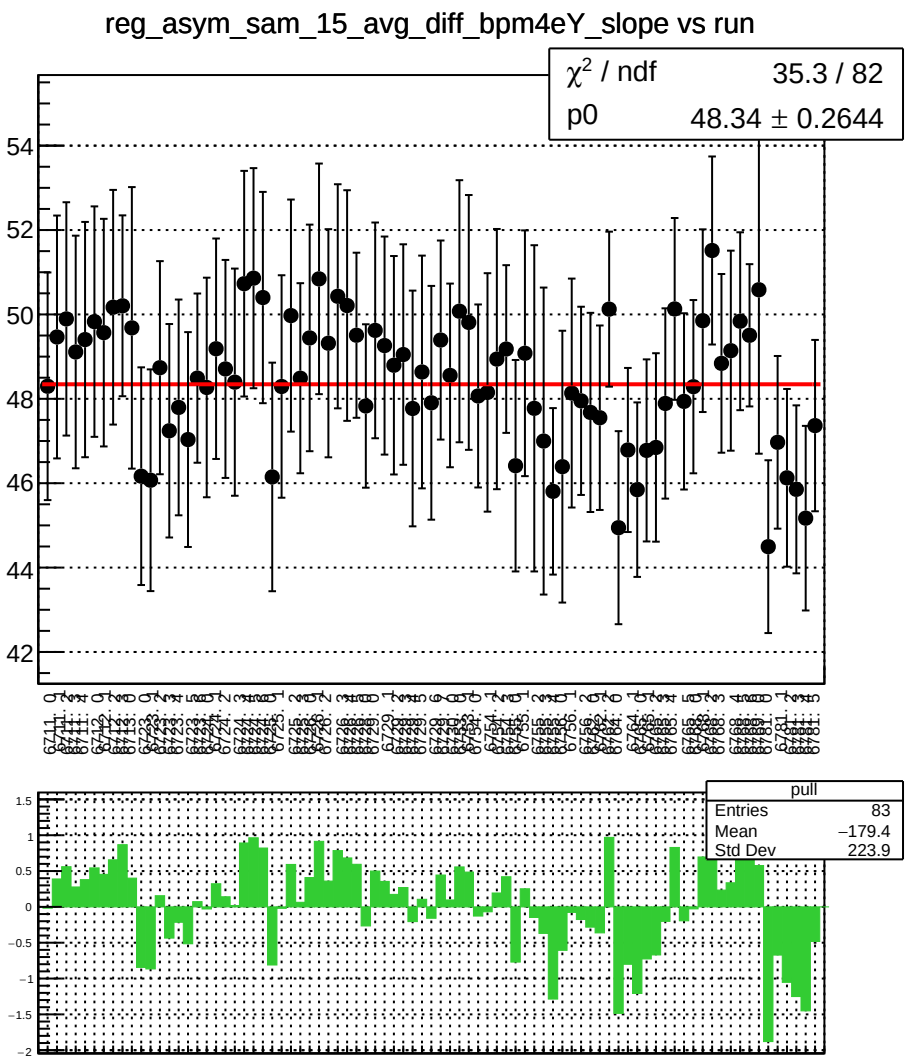

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 200.5 / 82
p0 −19.32 ± 0.03904
−18
−18.5
−19
−19.5
−20
−20.5
−21
pull
Entries 83
Mean −252.3
Std Dev 297.8
3
2
1
0
−1
−2
−3
pull1D
Entries 83
Mean −0.08435
Std Dev 1.552
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

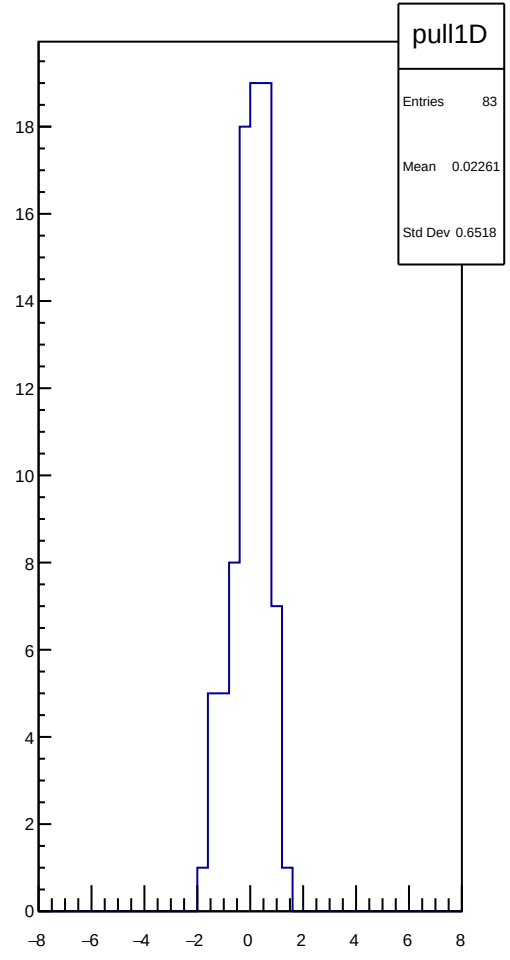

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 8.897 / 82
p0 −0.2711± 0.3368
pull
Entries 83
Mean −37.26
Std Dev 61.27

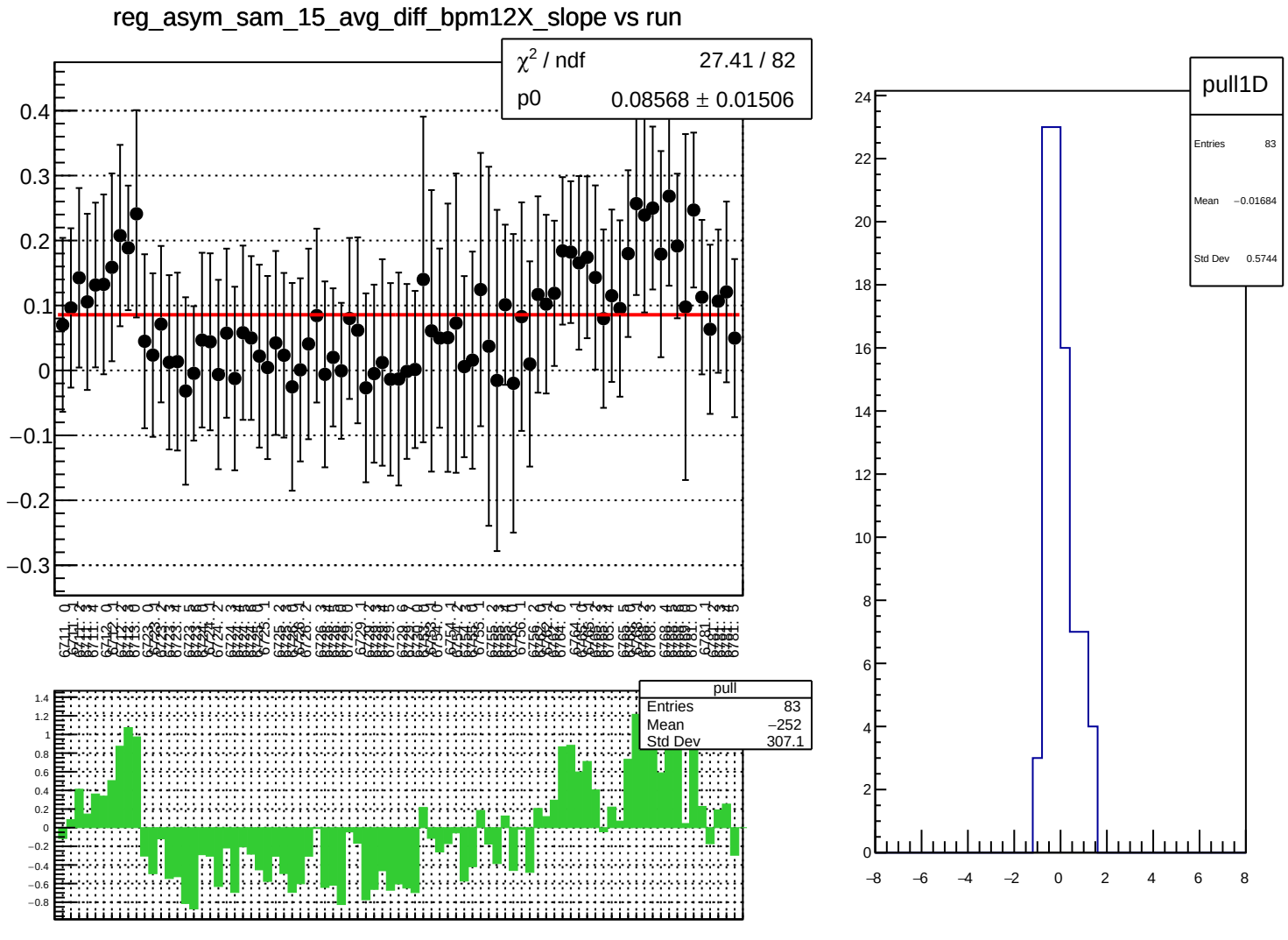

pull1D
Entries 83
Mean 0.006178
Std Dev 0.3274

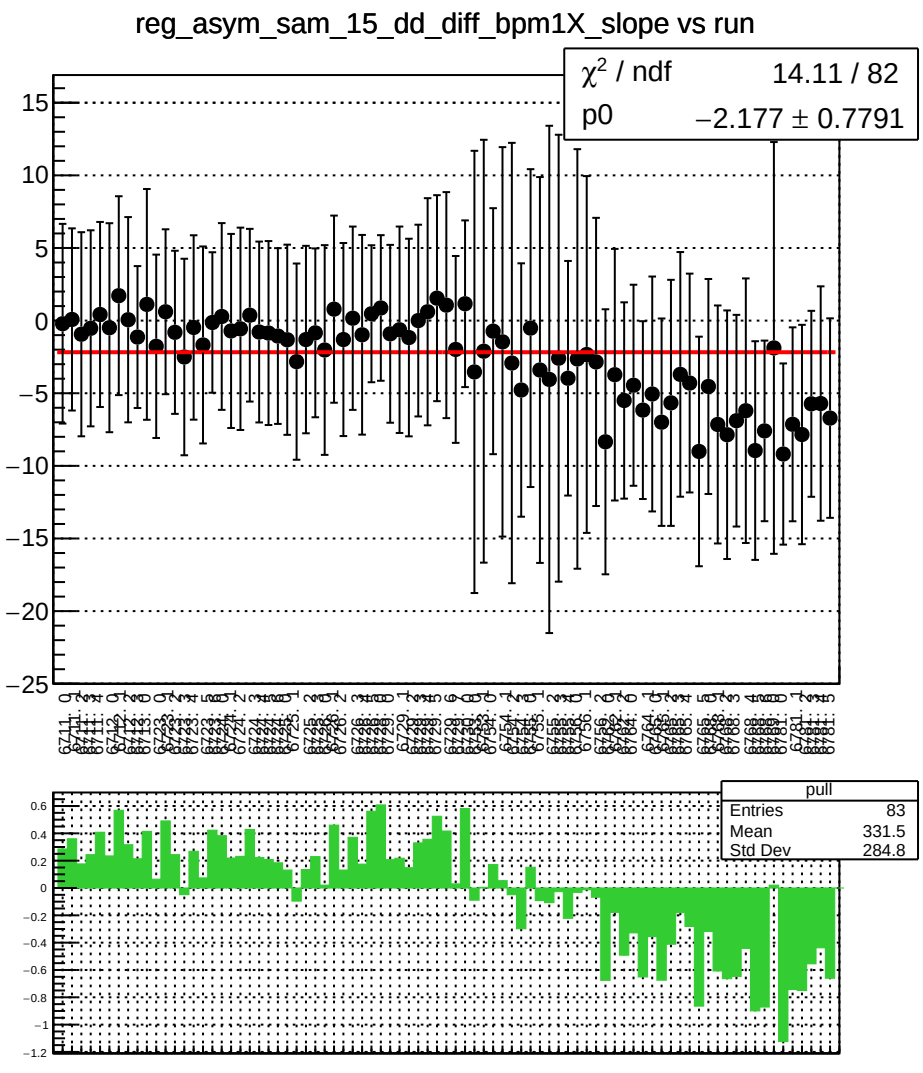

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.44 / 82
p0 −2.342 ± 0.2131
pull
Entries 83
Mean −119.3
Std Dev 158.1
pull1D
Entries 83
Mean 0.02524
Std Dev 0.5309

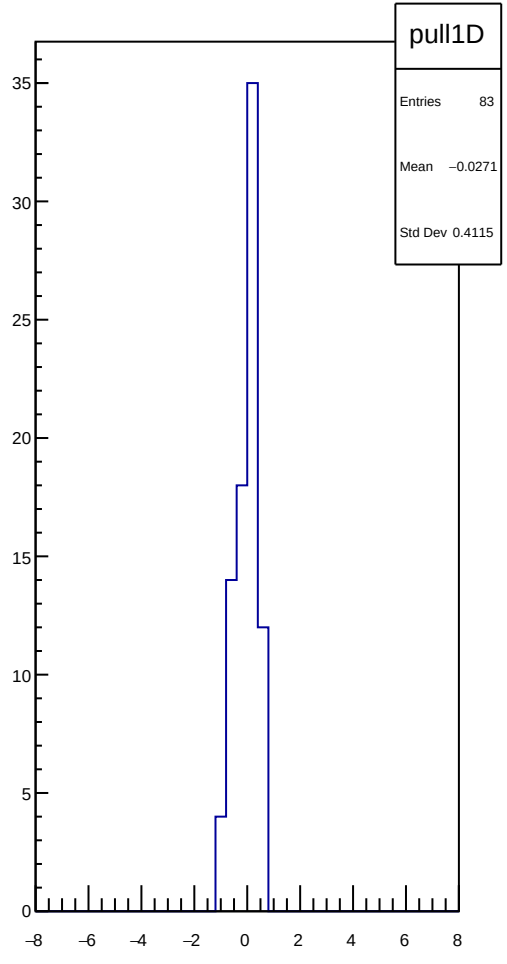

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.09 / 82
p0 −6.078 ± 0.3229
pull
Entries 83
Mean −29.34
Std Dev 73.4
pull1D
Entries 83
Mean −0.03098
Std Dev 0.4658

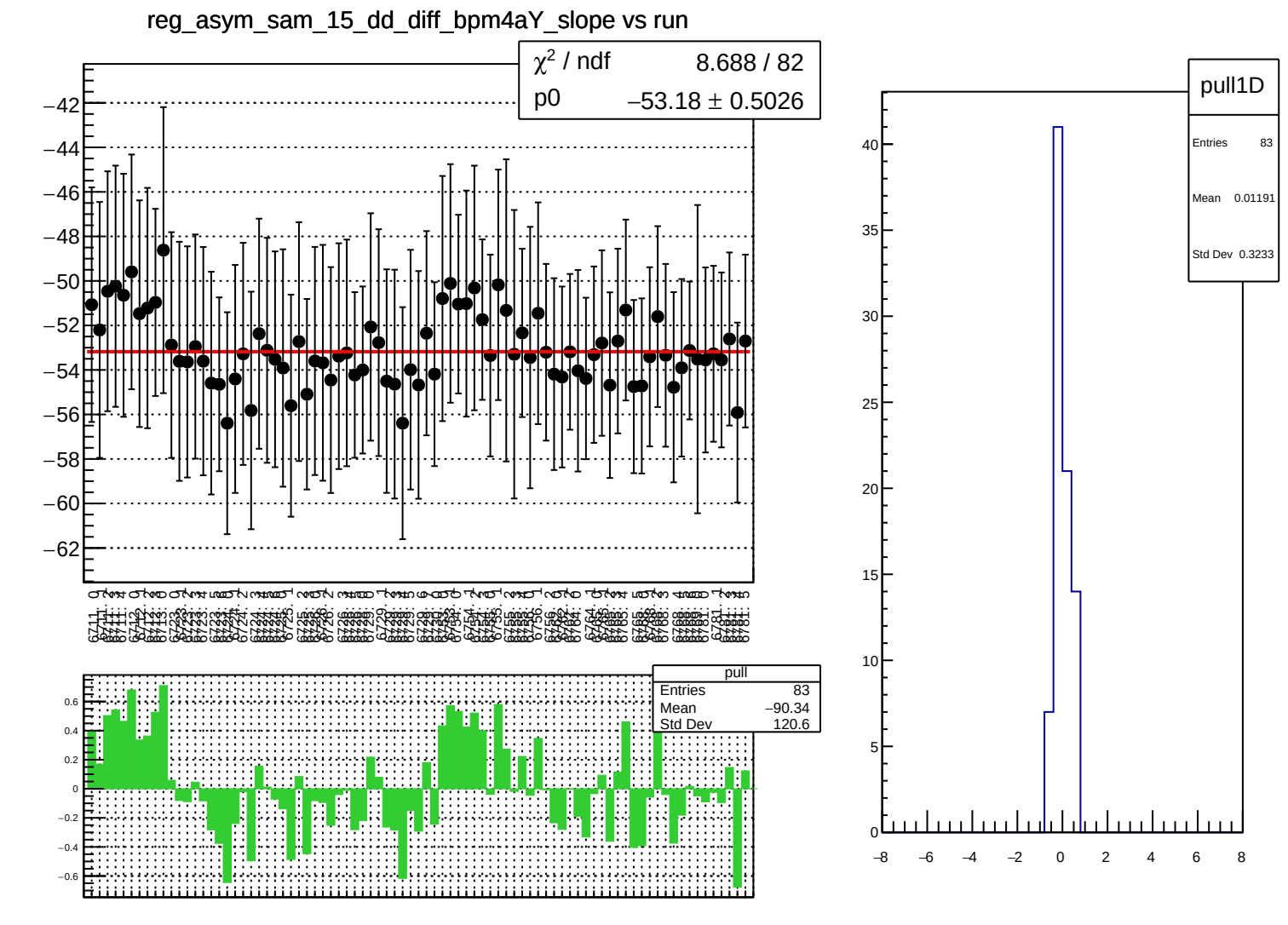

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.3 / 82
p0 48.34 ± 0.2644
pull
Entries 83
Mean −179.4
Std Dev 223.9

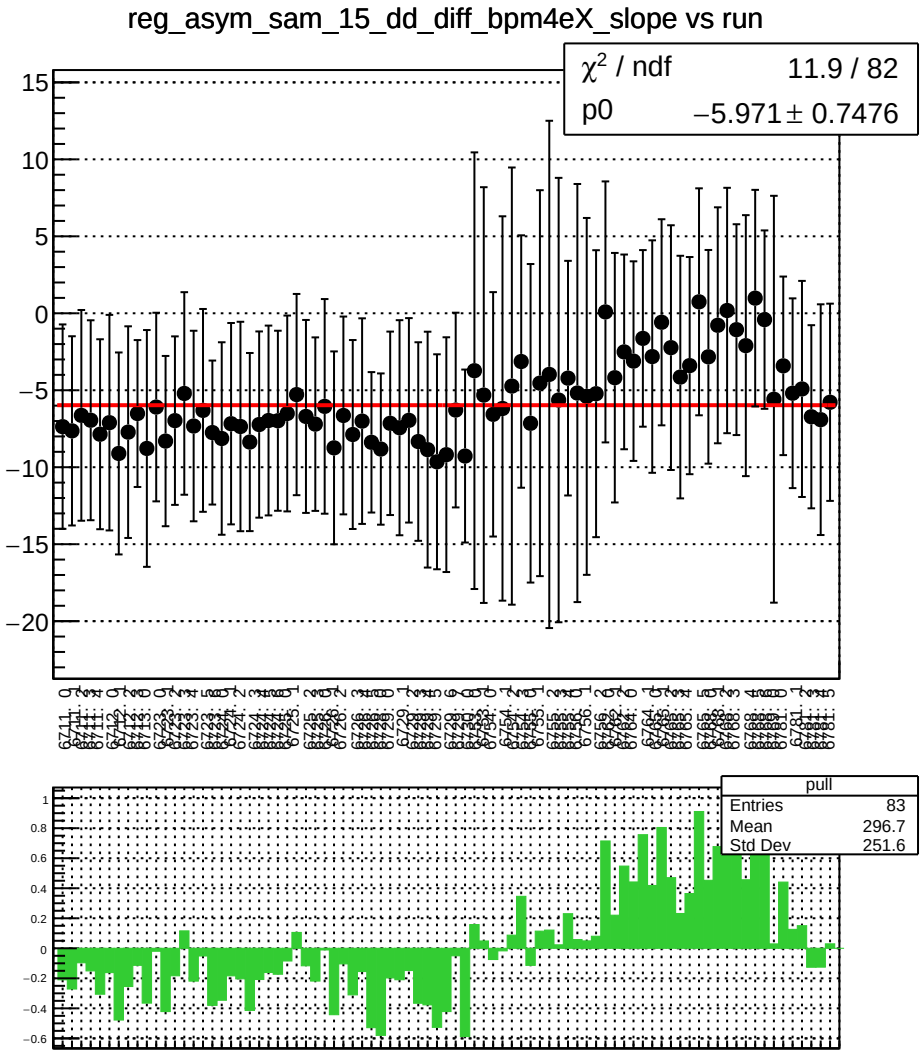

pull1D
Entries 83
Mean 0.02261
Std Dev 0.6518

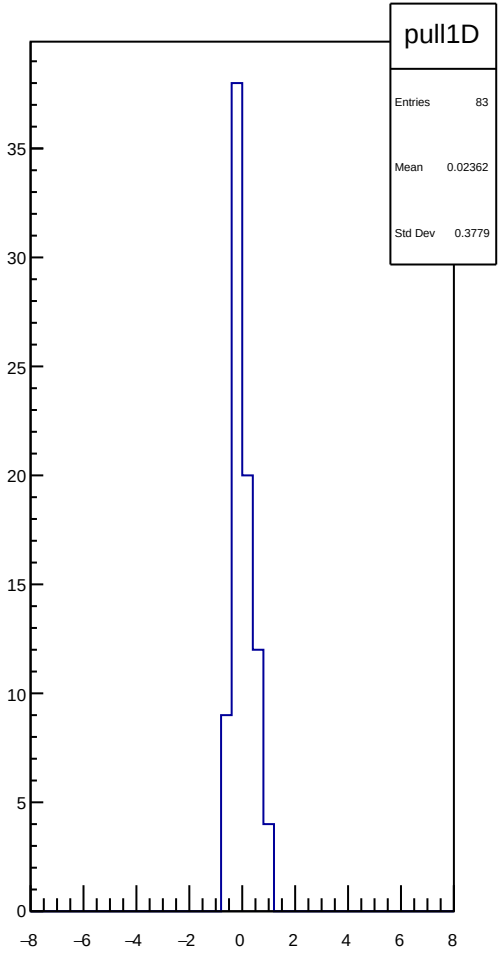

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 27.41 / 82
p0 0.08568 ± 0.01506
pull
Entries 83
Mean −252
Std Dev 307.1
pull1D
Entries 83
Mean −0.01684
Std Dev 0.5744

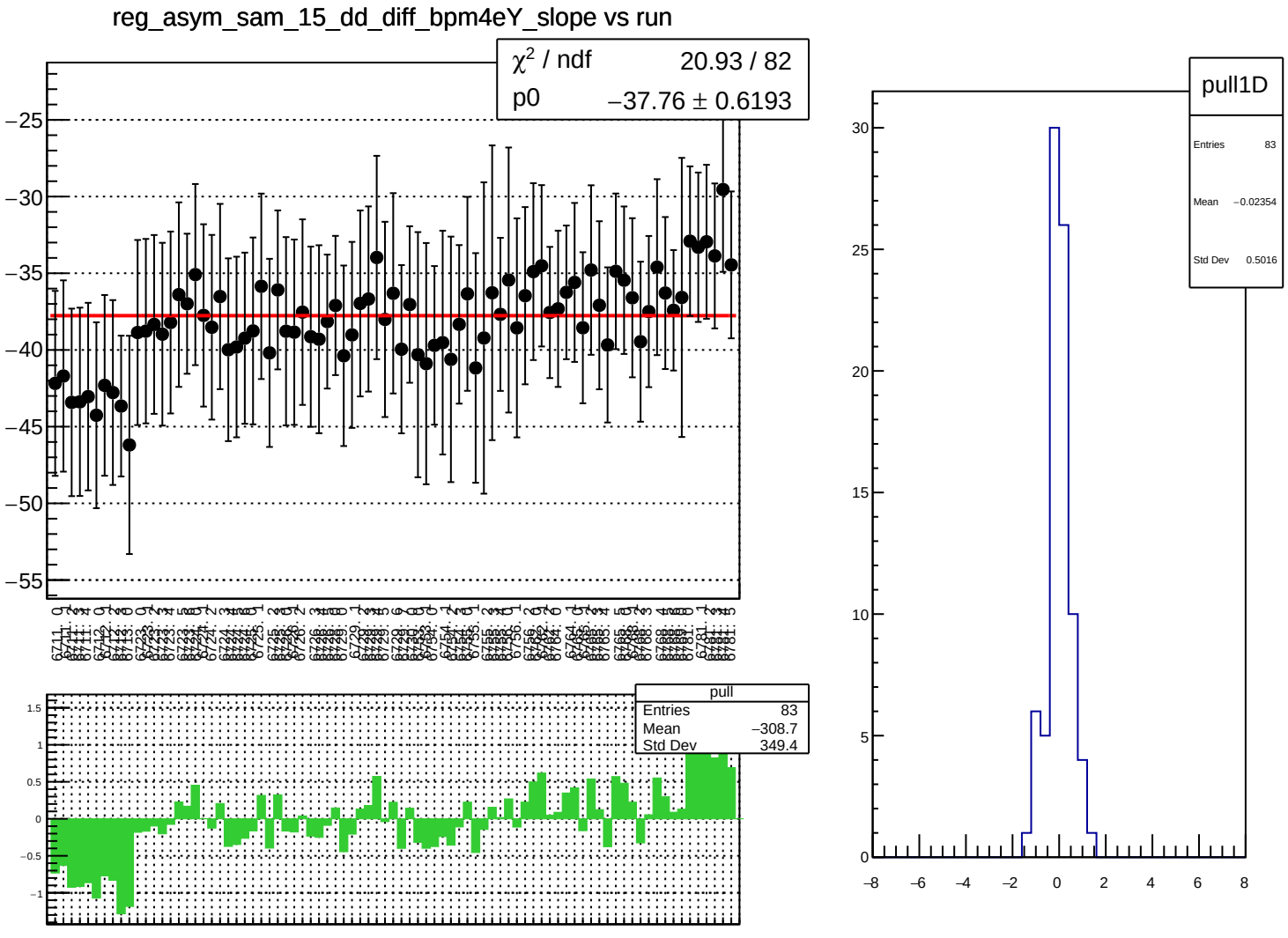

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 14.11 / 82
p0 −2.177 ± 0.7791
pull
Entries 83
Mean 331.5
Std Dev 284.8

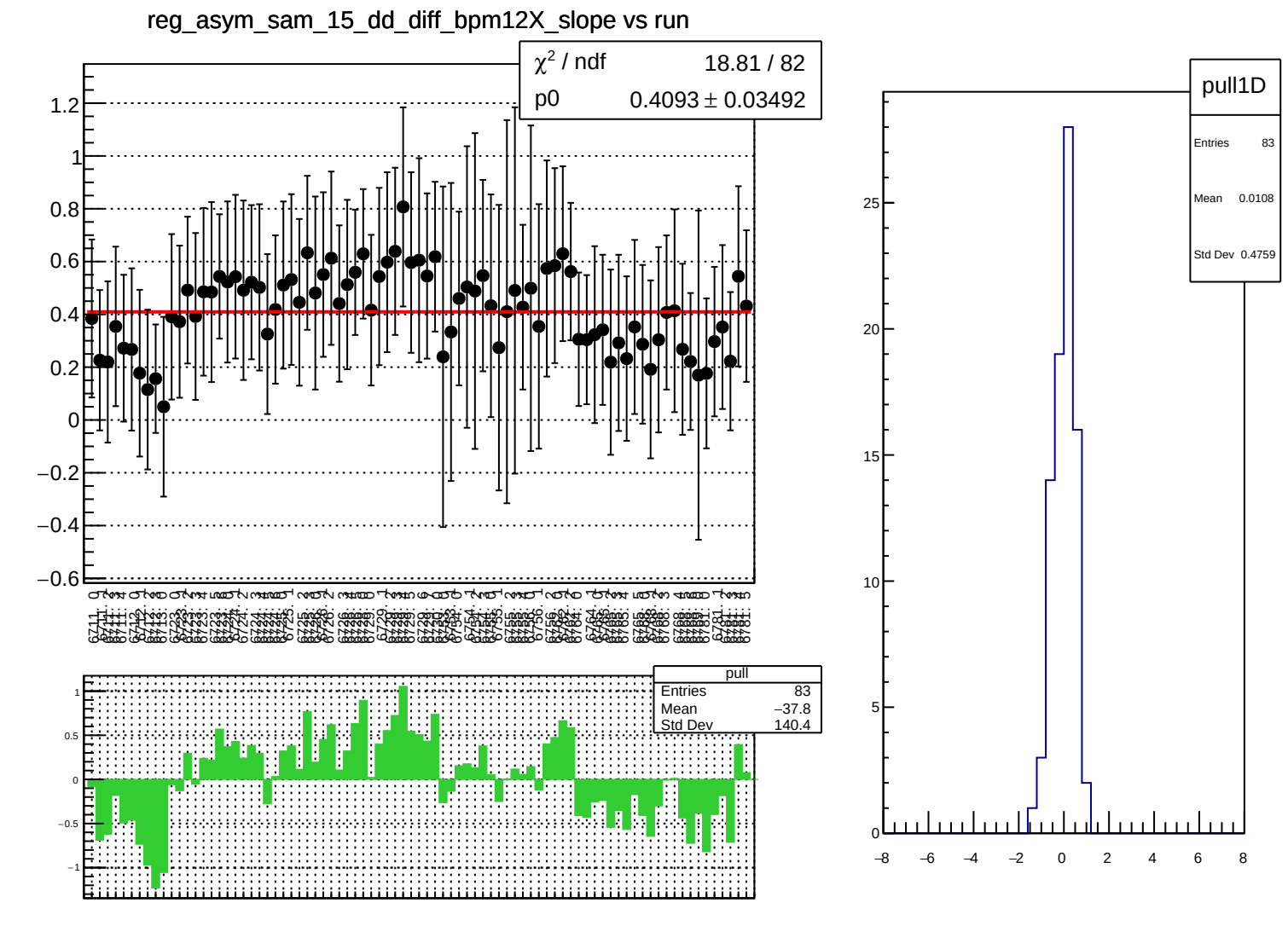

pull1D
Entries 83
Mean −0.0271
Std Dev 0.4115

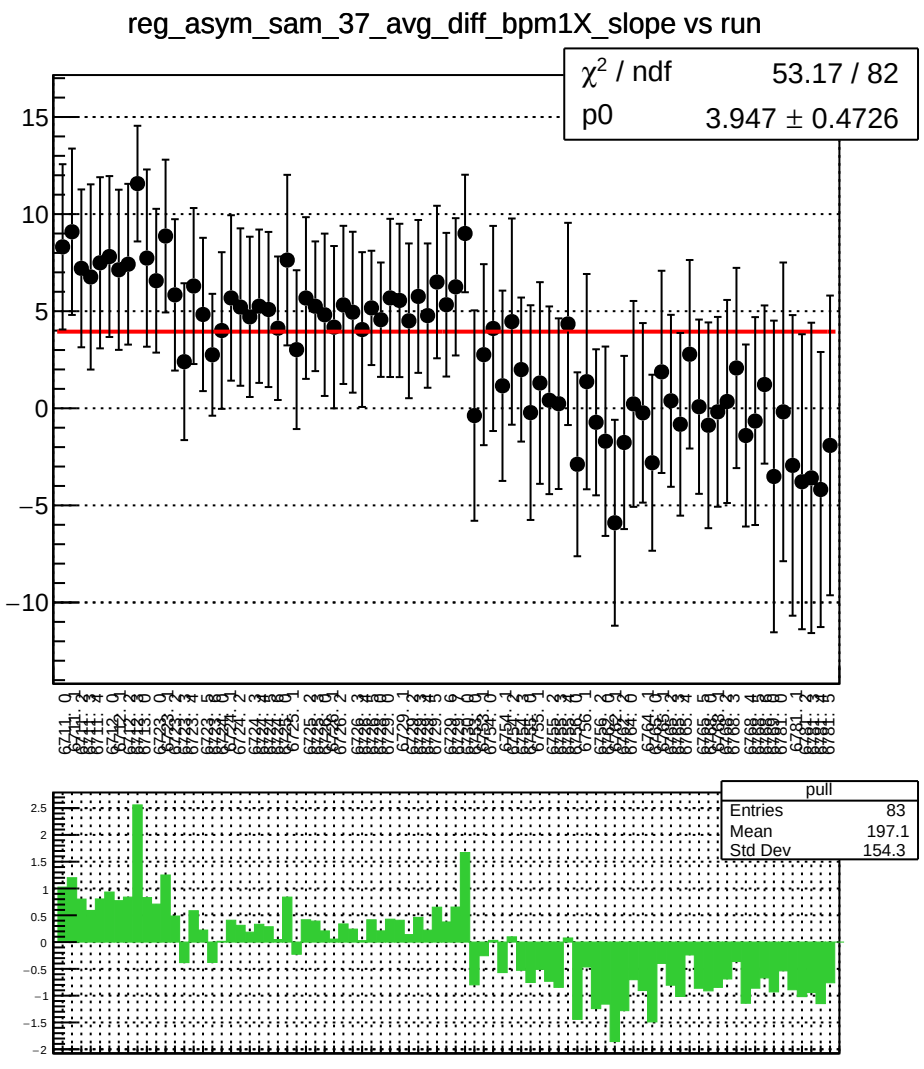

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.688 / 82
p0 −53.18 ± 0.5026
pull
Entries 83
Mean −90.34
Std Dev 120.6
pull1D
Entries 83
Mean 0.01191
Std Dev 0.3233

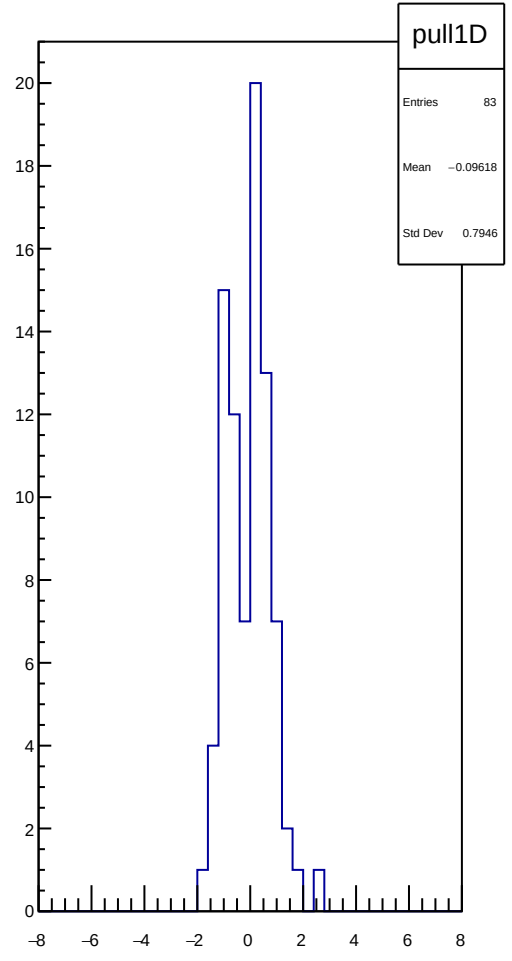

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.9 / 82
p0 −5.971 ± 0.7476
pull
Entries 83
Mean 296.7
Std Dev 251.6

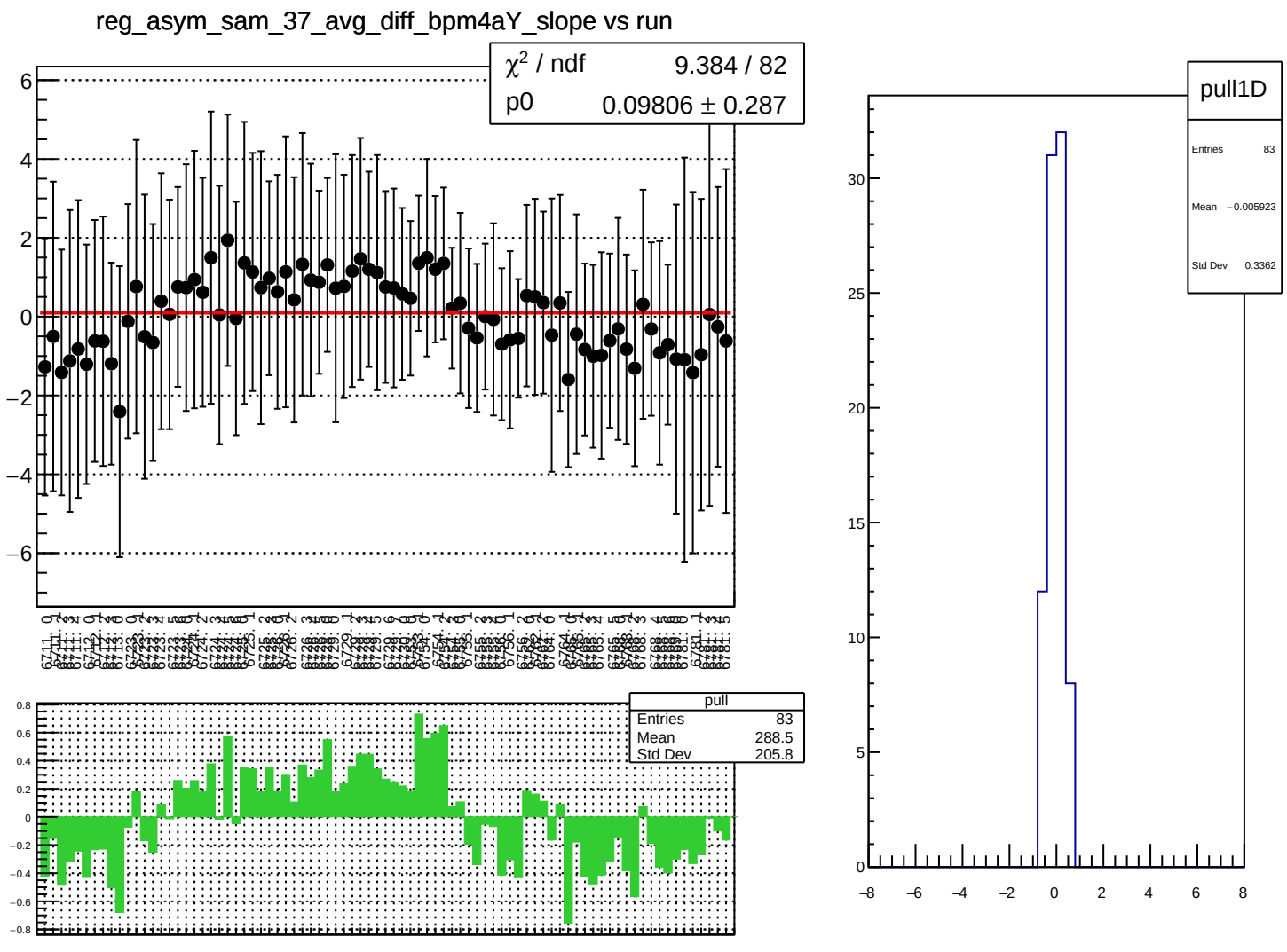

pull1D
Entries 83
Mean 0.02362
Std Dev 0.3779

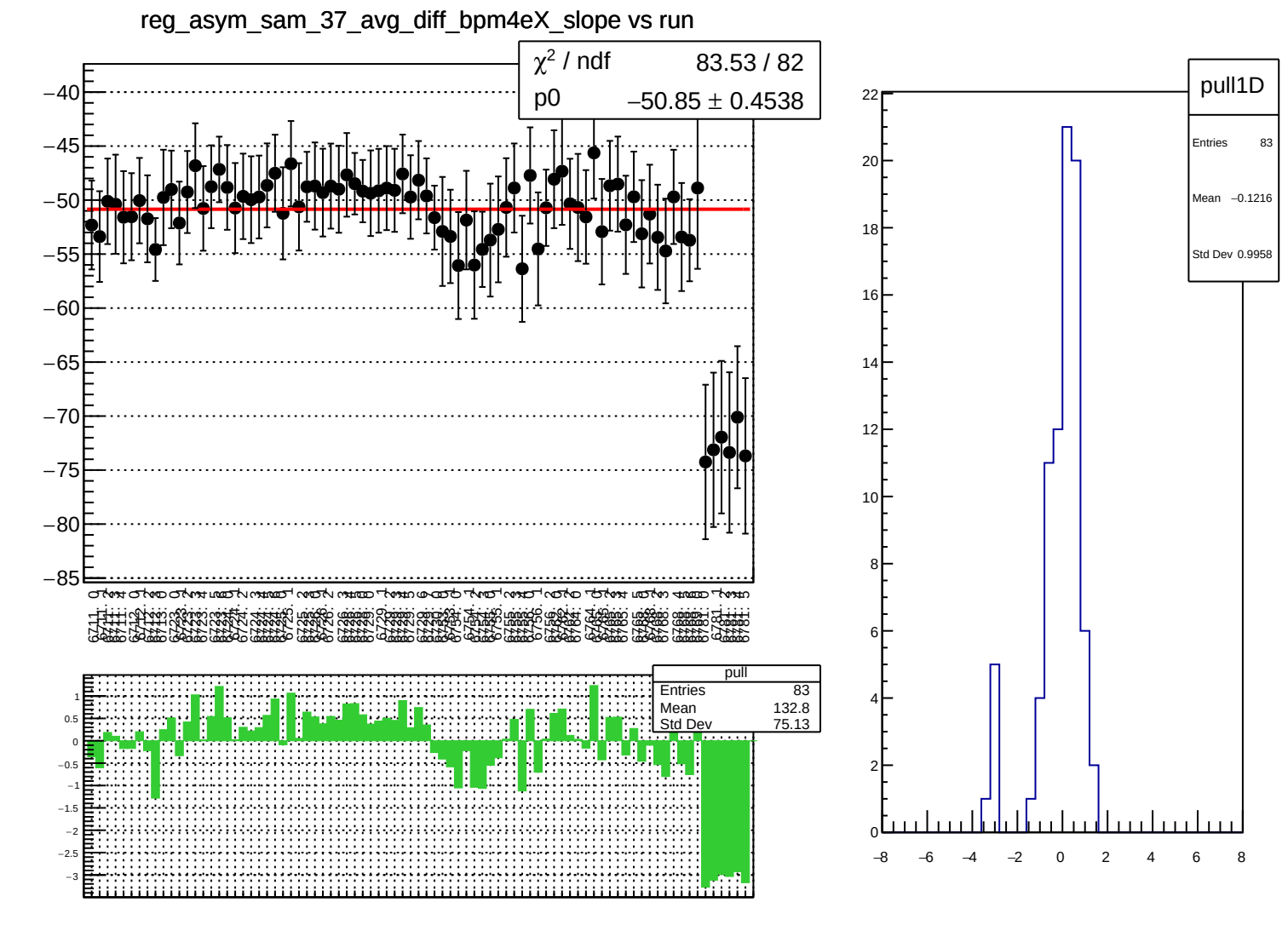

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.93 / 82
p0 −37.76 ± 0.6193
pull
Entries 83
Mean −308.7
Std Dev 349.4
pull1D
Entries 83
Mean −0.02354
Std Dev 0.5016

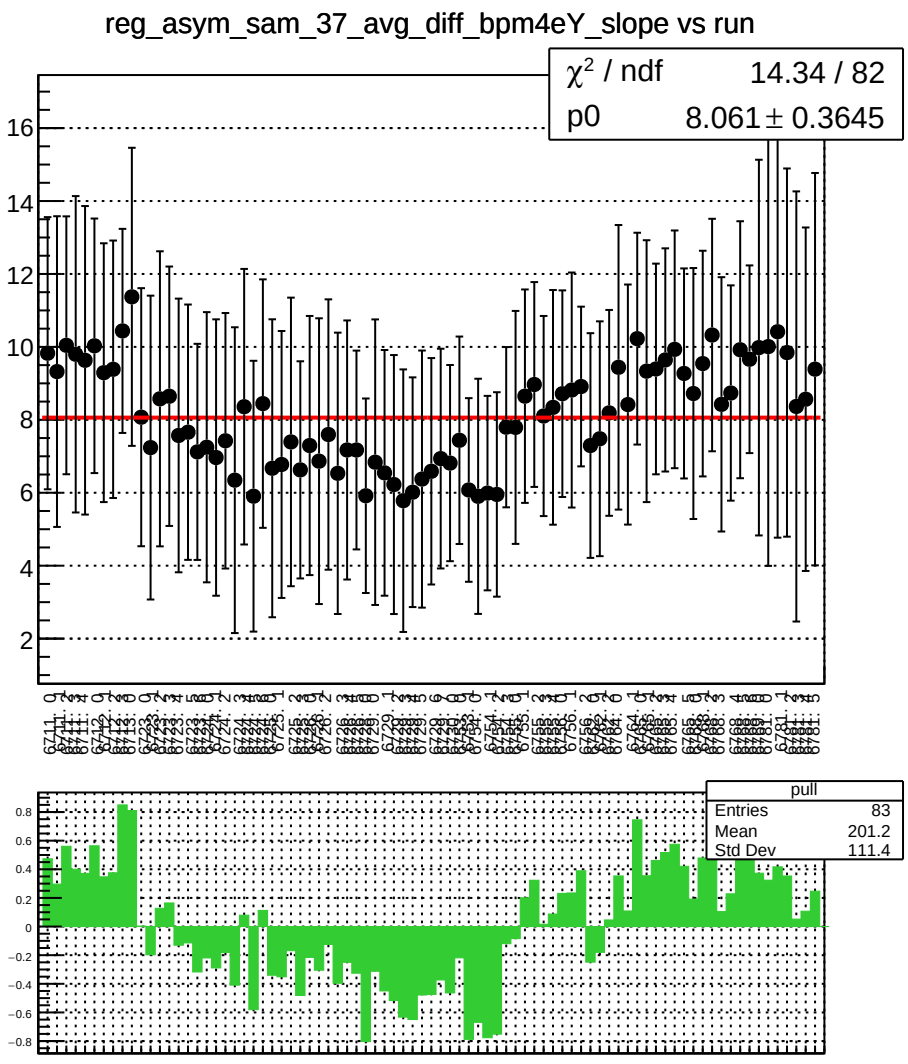

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 18.81 / 82
p0 0.4093 ± 0.03492
pull
Entries 83
Mean −37.8
Std Dev 140.4
pull1D
Entries 83
Mean 0.0108
Std Dev 0.4759

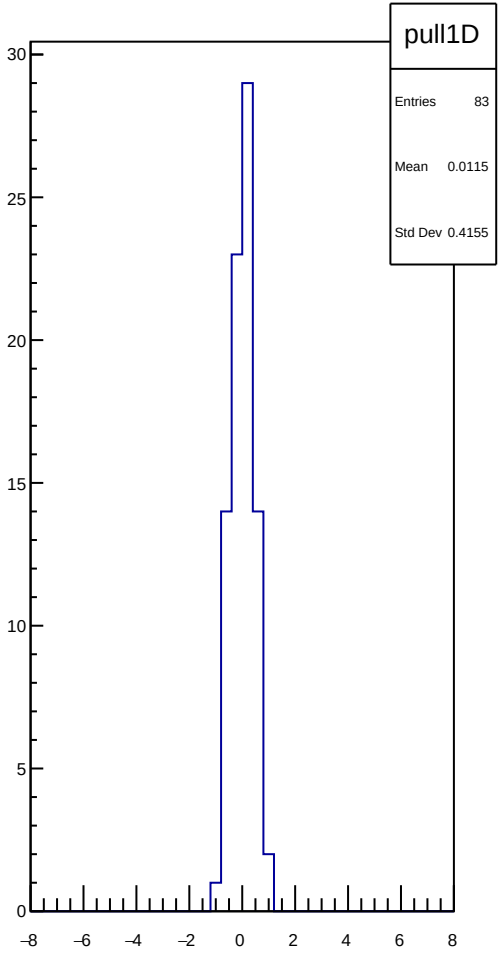

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 53.17 / 82
p0 3.947 ± 0.4726
pull
Entries 83
Mean 197.1
Std Dev 154.3

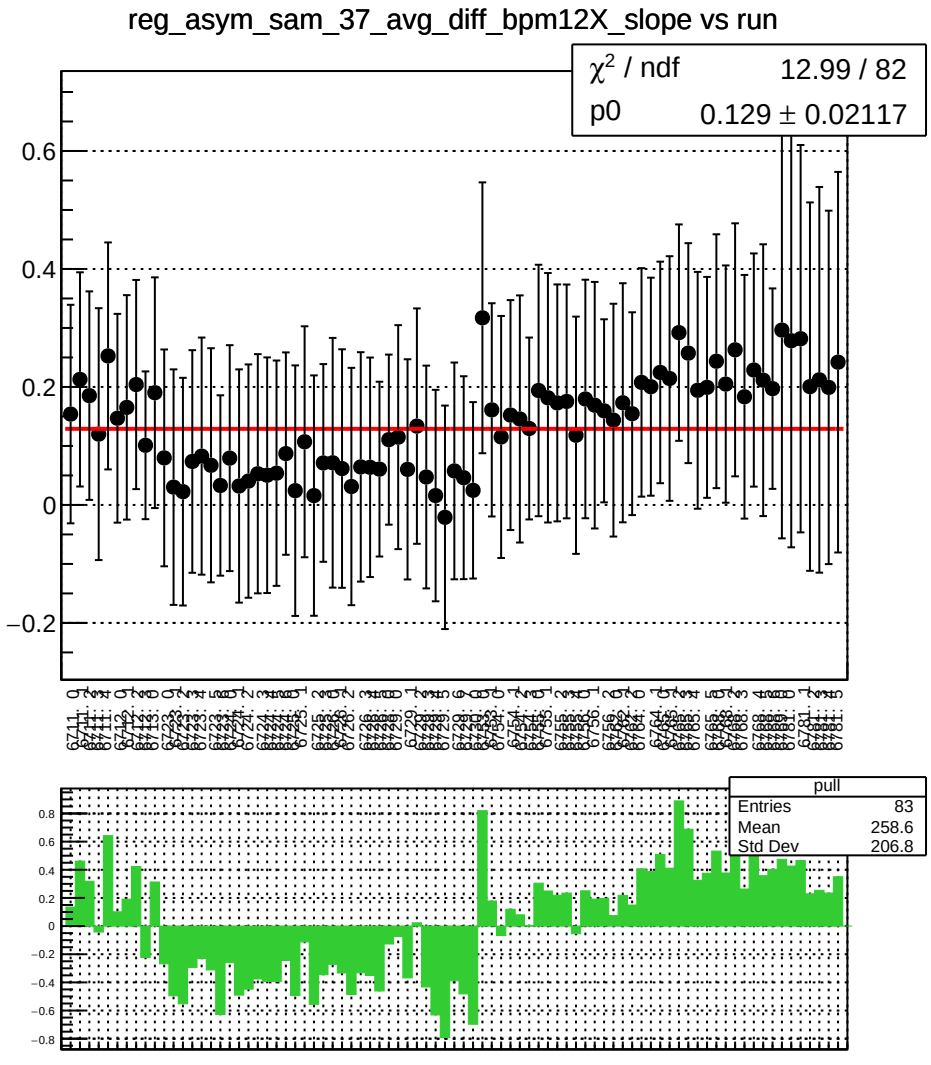

pull1D
Entries 83
Mean −0.09618
Std Dev 0.7946

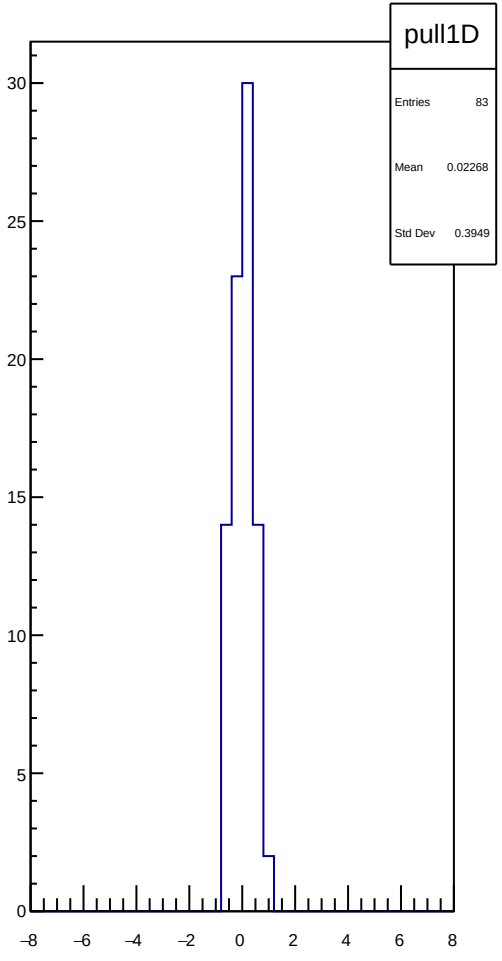

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.384 / 82
p0 0.09806 ± 0.287
pull
Entries 83
Mean 288.5
Std Dev 205.8
pull1D
Entries 83
Mean −0.005923
Std Dev 0.3362

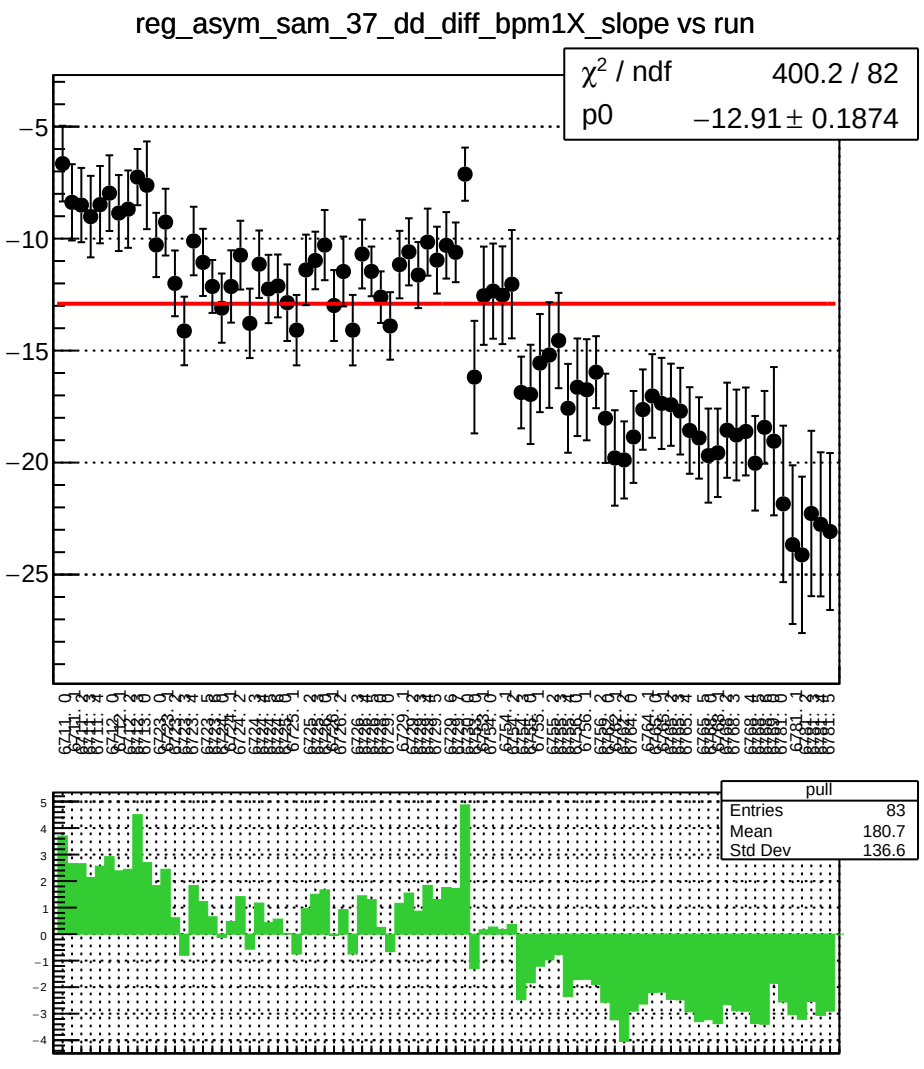

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 83.53 / 82
p0 −50.85 ± 0.4538
pull
Entries 83
Mean 132.8
Std Dev 75.13
pull1D
Entries 83
Mean −0.1216
Std Dev 0.9958

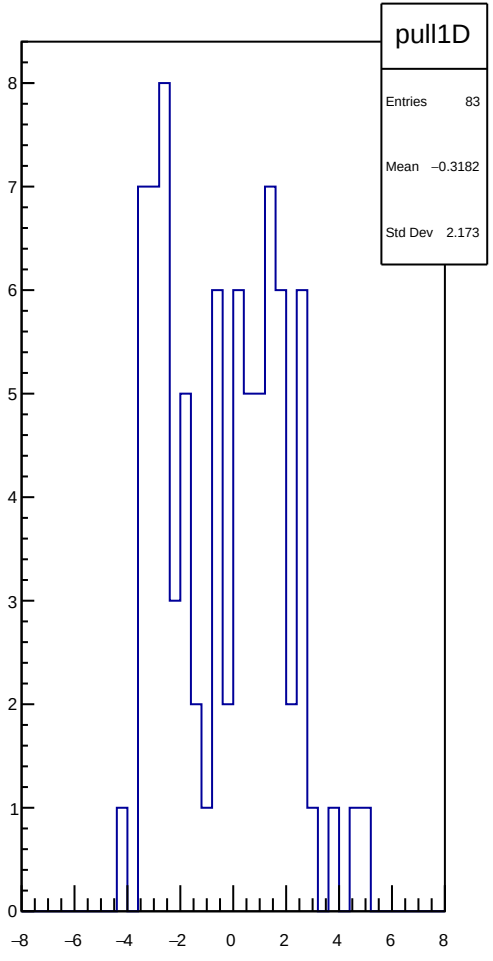

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.34 / 82
p0 8.061 ± 0.3645
pull
Entries 83
Mean 201.2
Std Dev 111.4

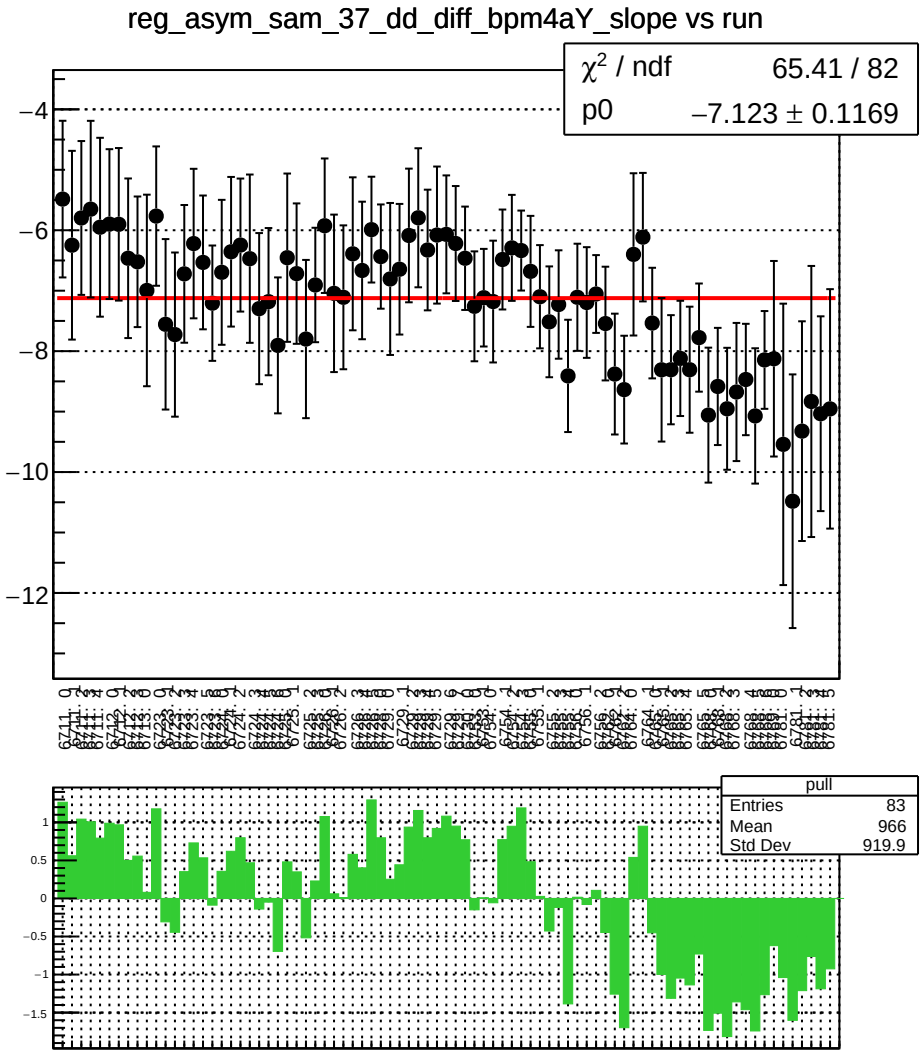

pull1D
Entries 83
Mean 0.0115
Std Dev 0.4155

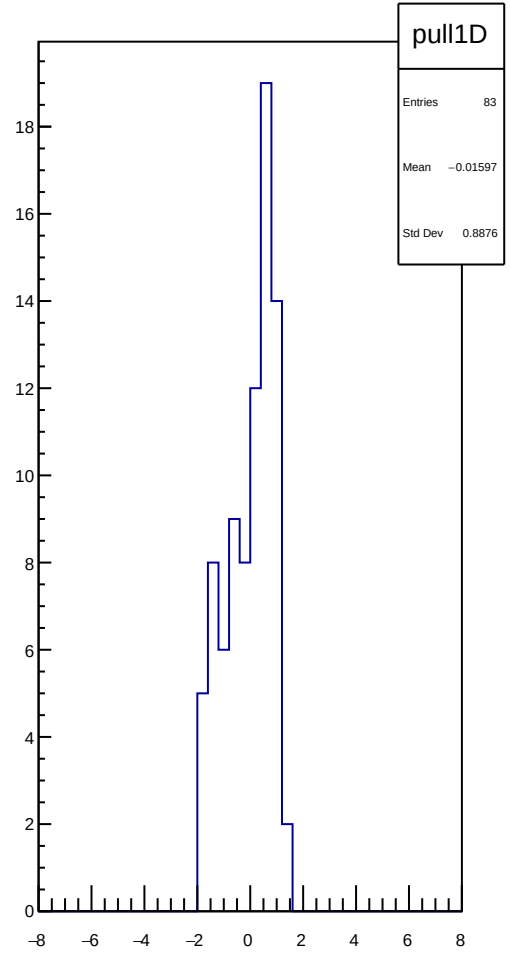

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 12.99 / 82
p0 0.129 ± 0.02117
pull
Entries 83
Mean 258.6
Std Dev 206.8

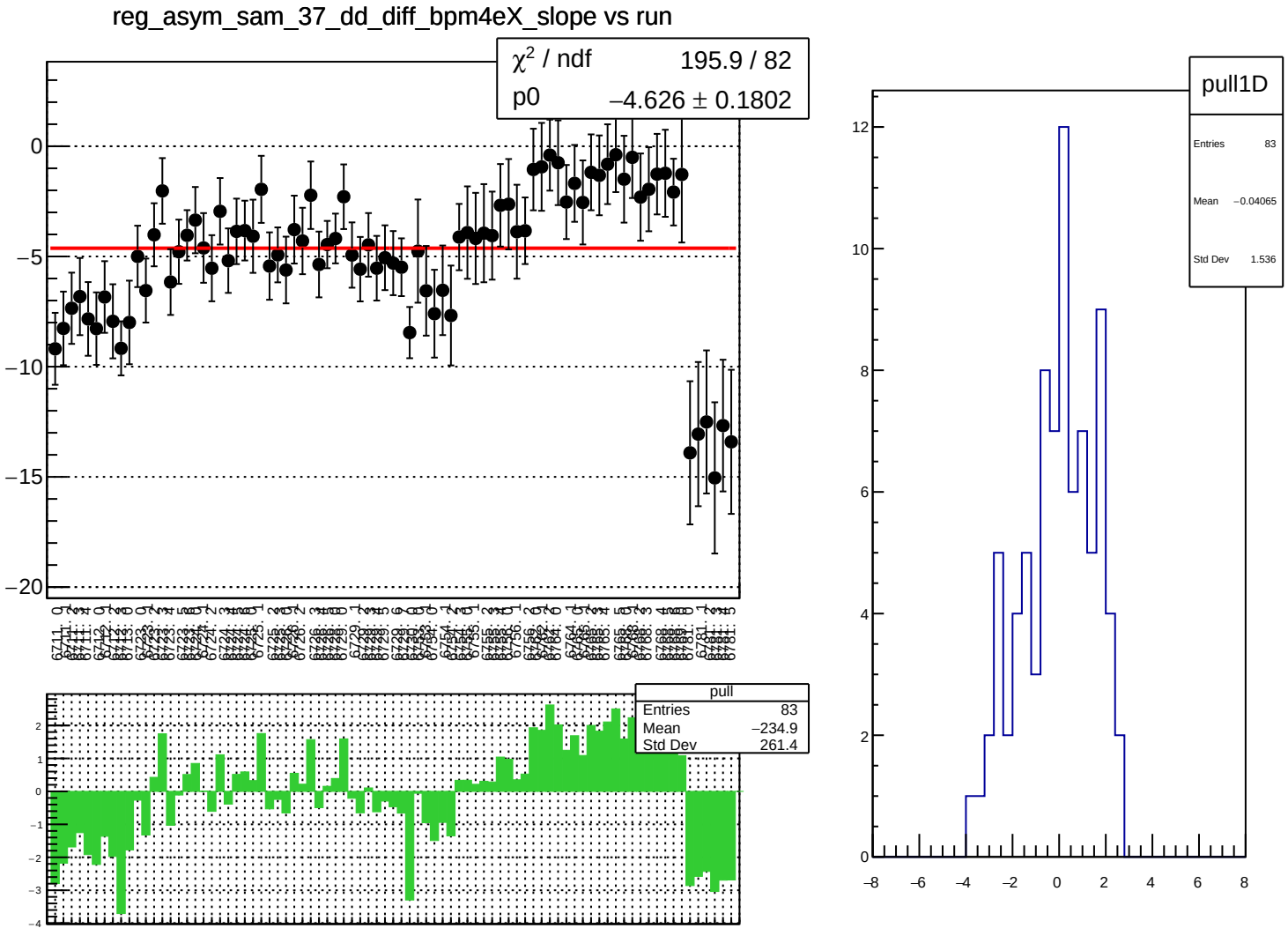

pull1D
Entries 83
Mean 0.02268
Std Dev 0.3949

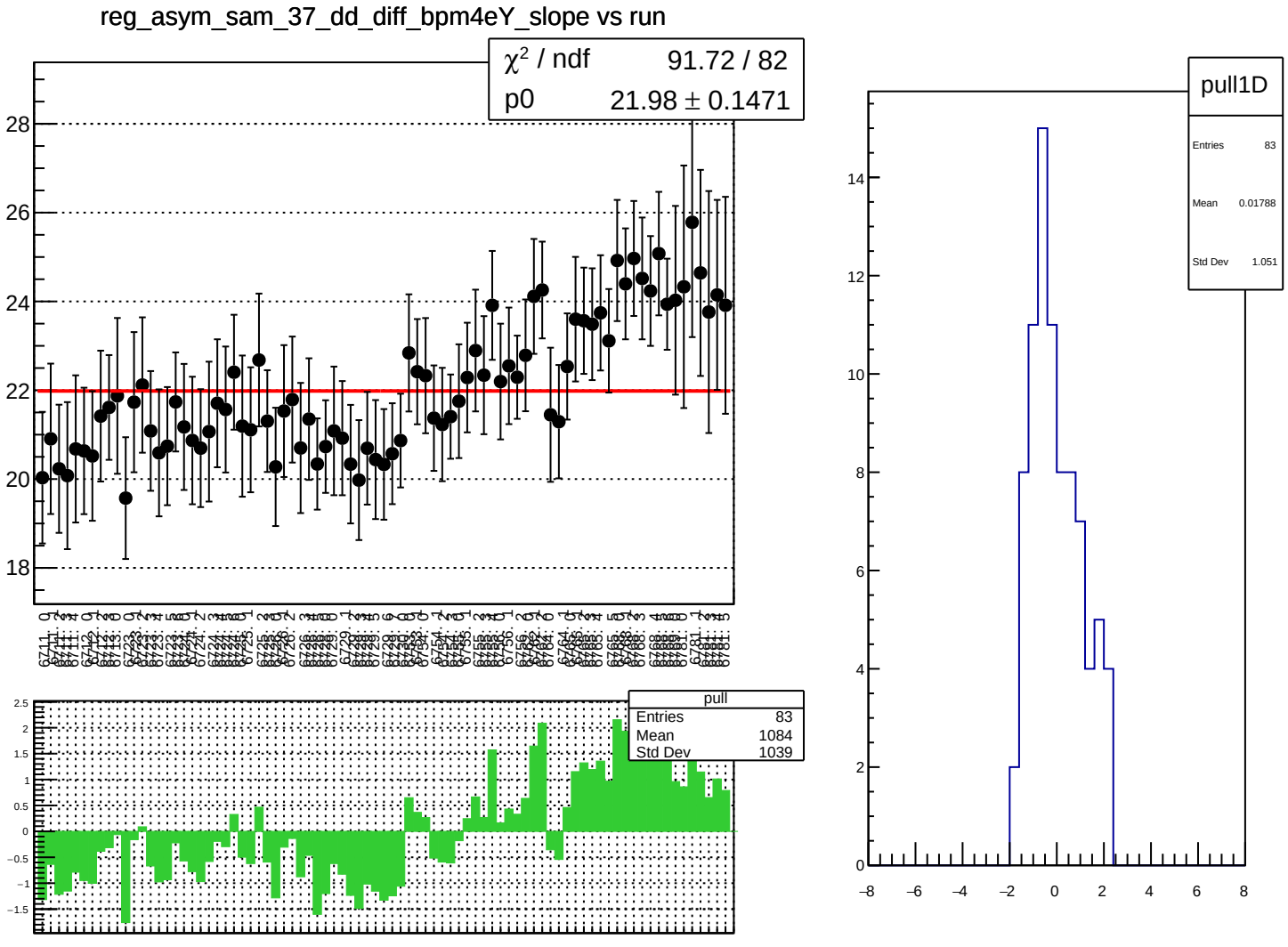

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 400.2 / 82
p0 −12.91 ± 0.1874
pull
Entries 83
Mean 180.7
Std Dev 136.6

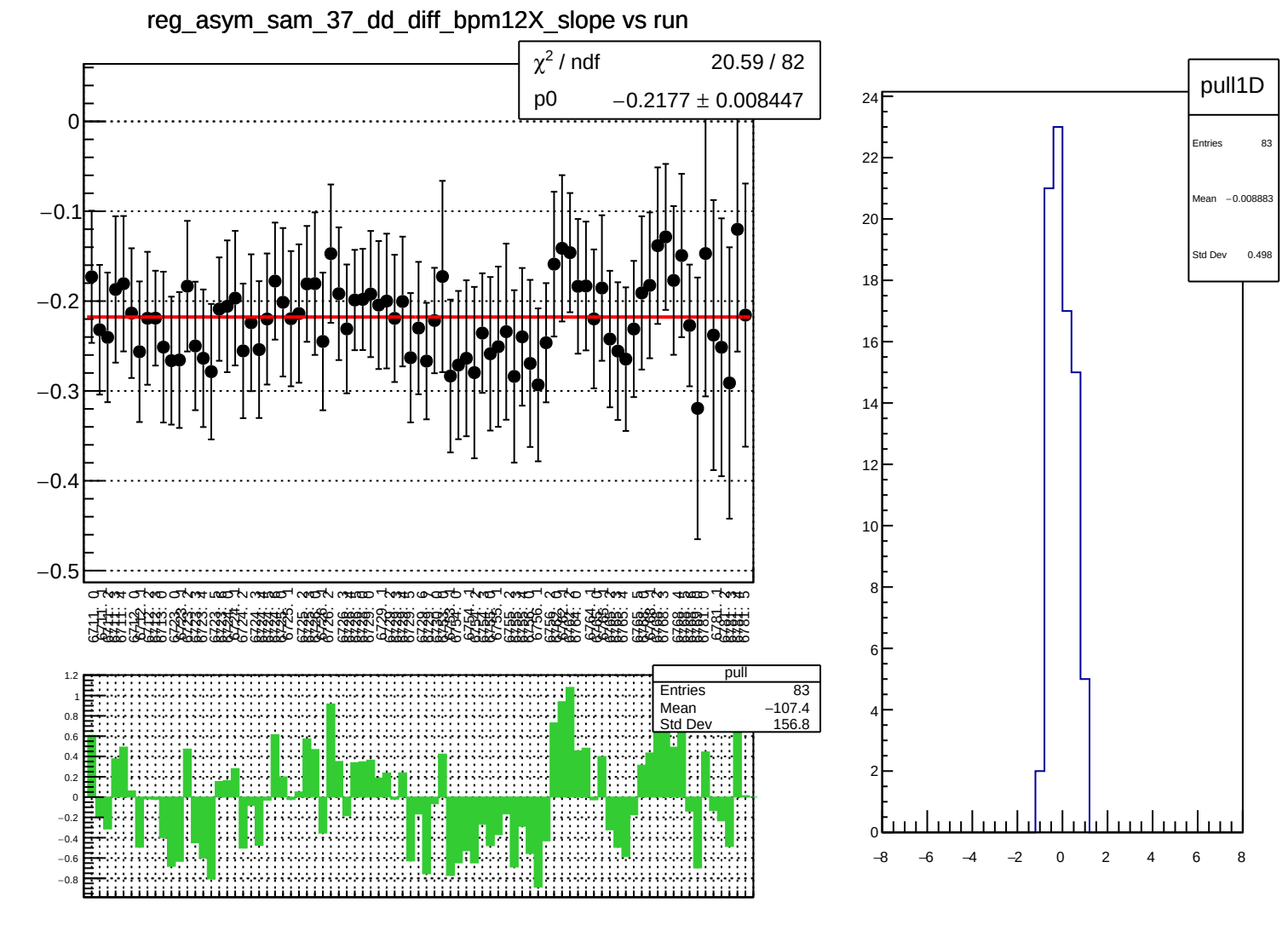

pull1D
Entries 83
Mean −0.3182
Std Dev 2.173

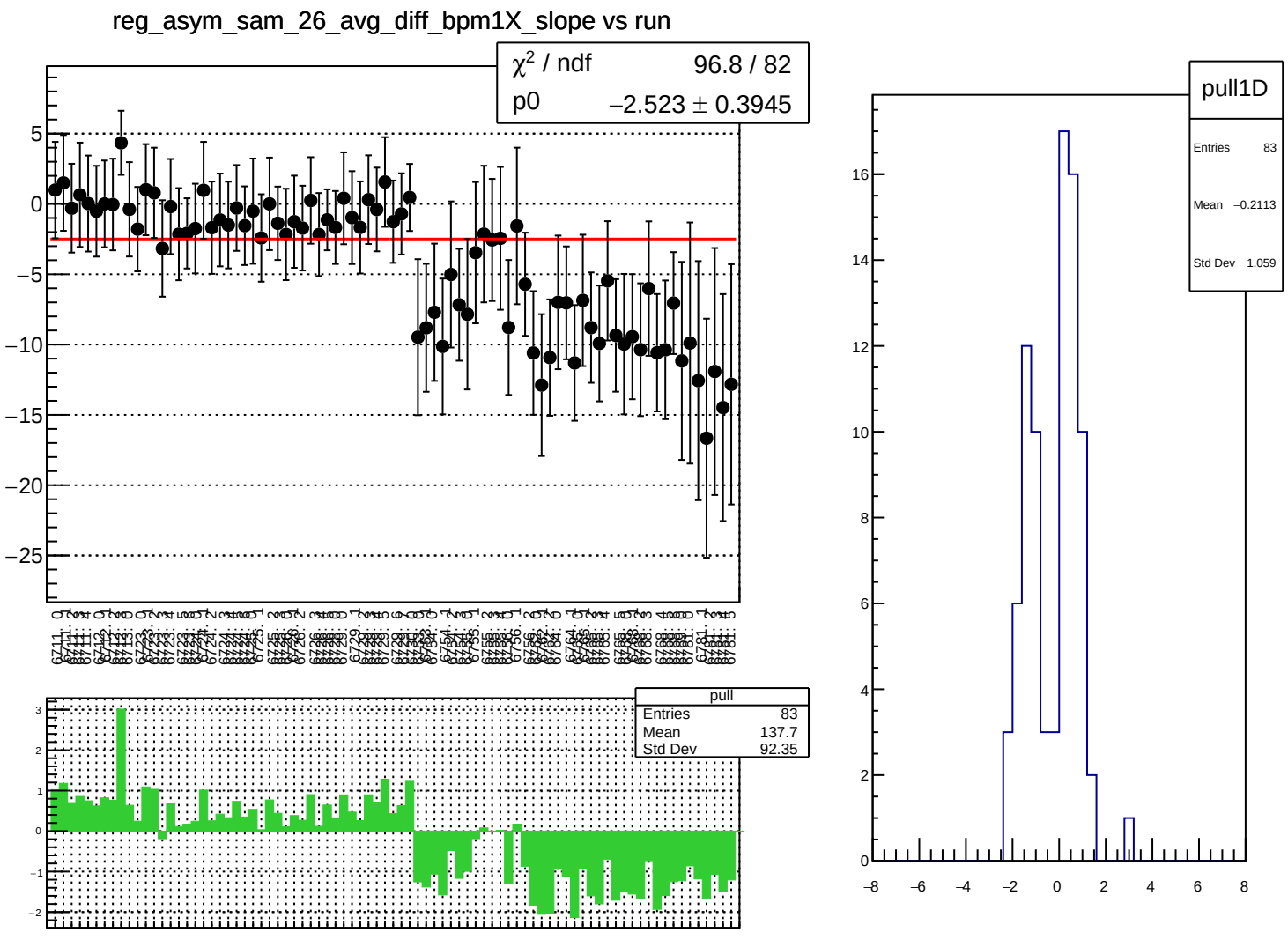

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.41 / 82
p0 −7.123 ± 0.1169
pull
Entries 83
Mean 966
Std Dev 919.9

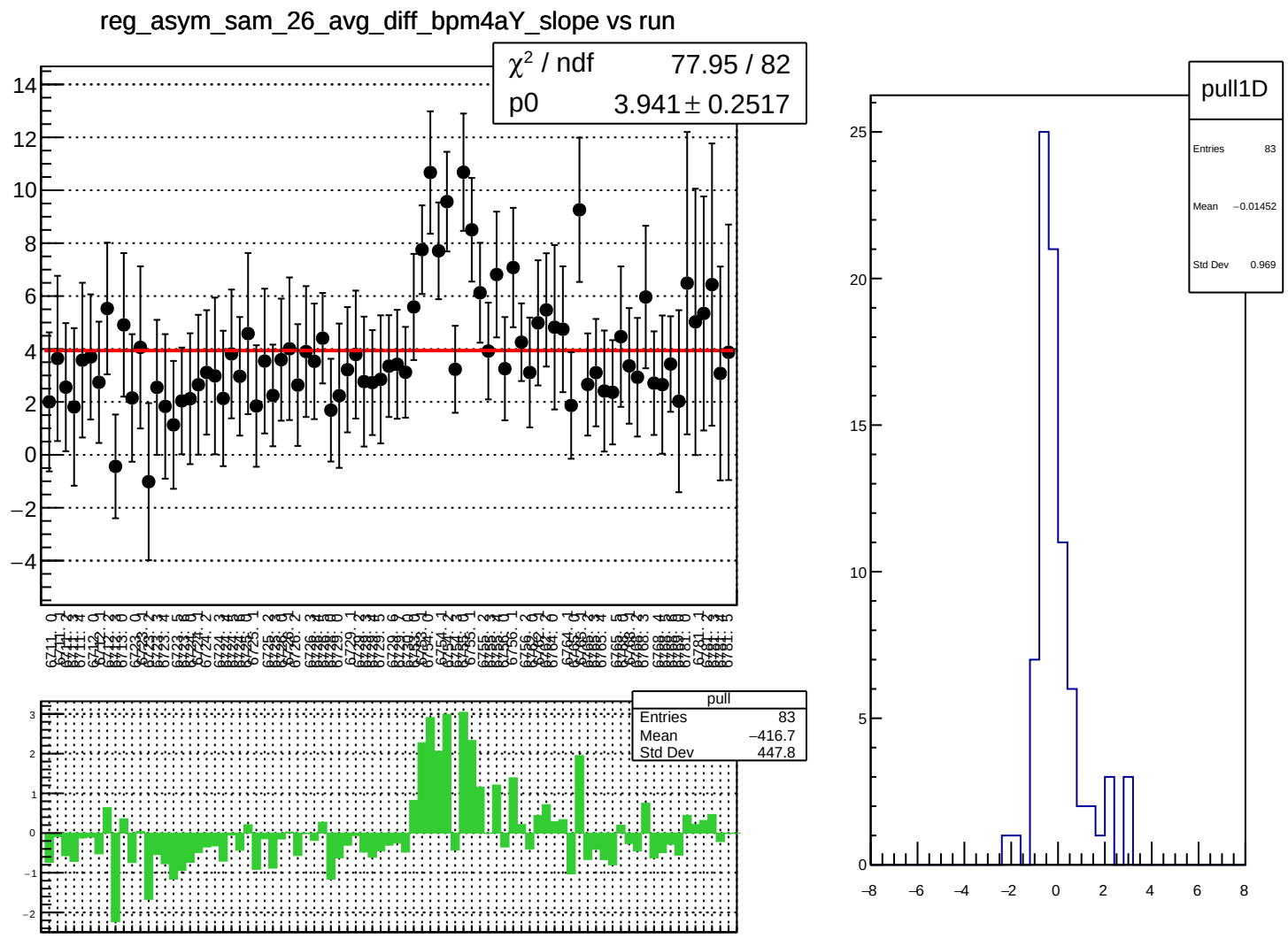

pull1D
Entries 83
Mean −0.01597
Std Dev 0.8876

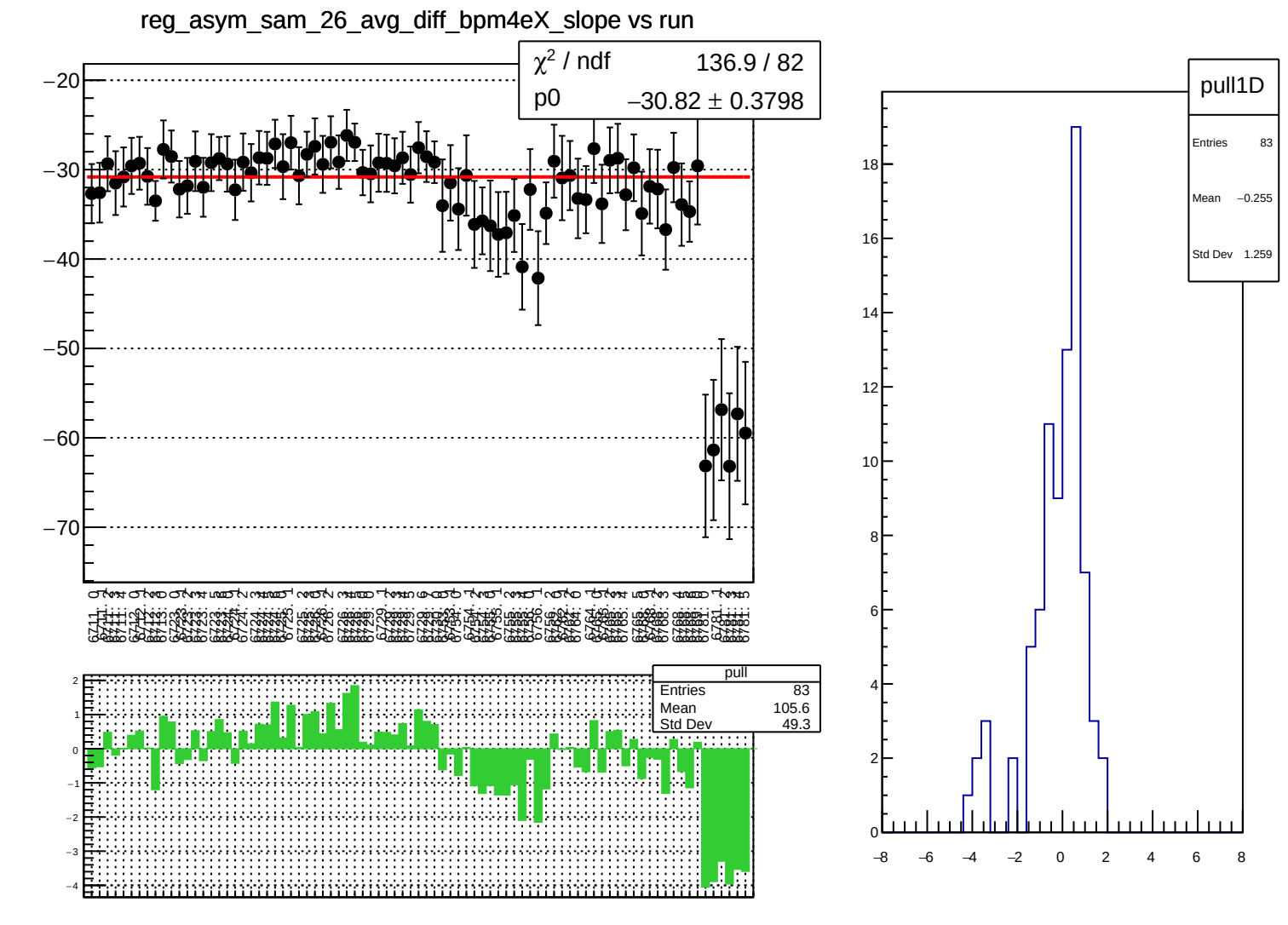

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 195.9 / 82
p0 −4.626 ± 0.1802
pull
Entries 83
Mean −234.9
Std Dev 261.4
pull1D
Entries 83
Mean −0.04065
Std Dev 1.536

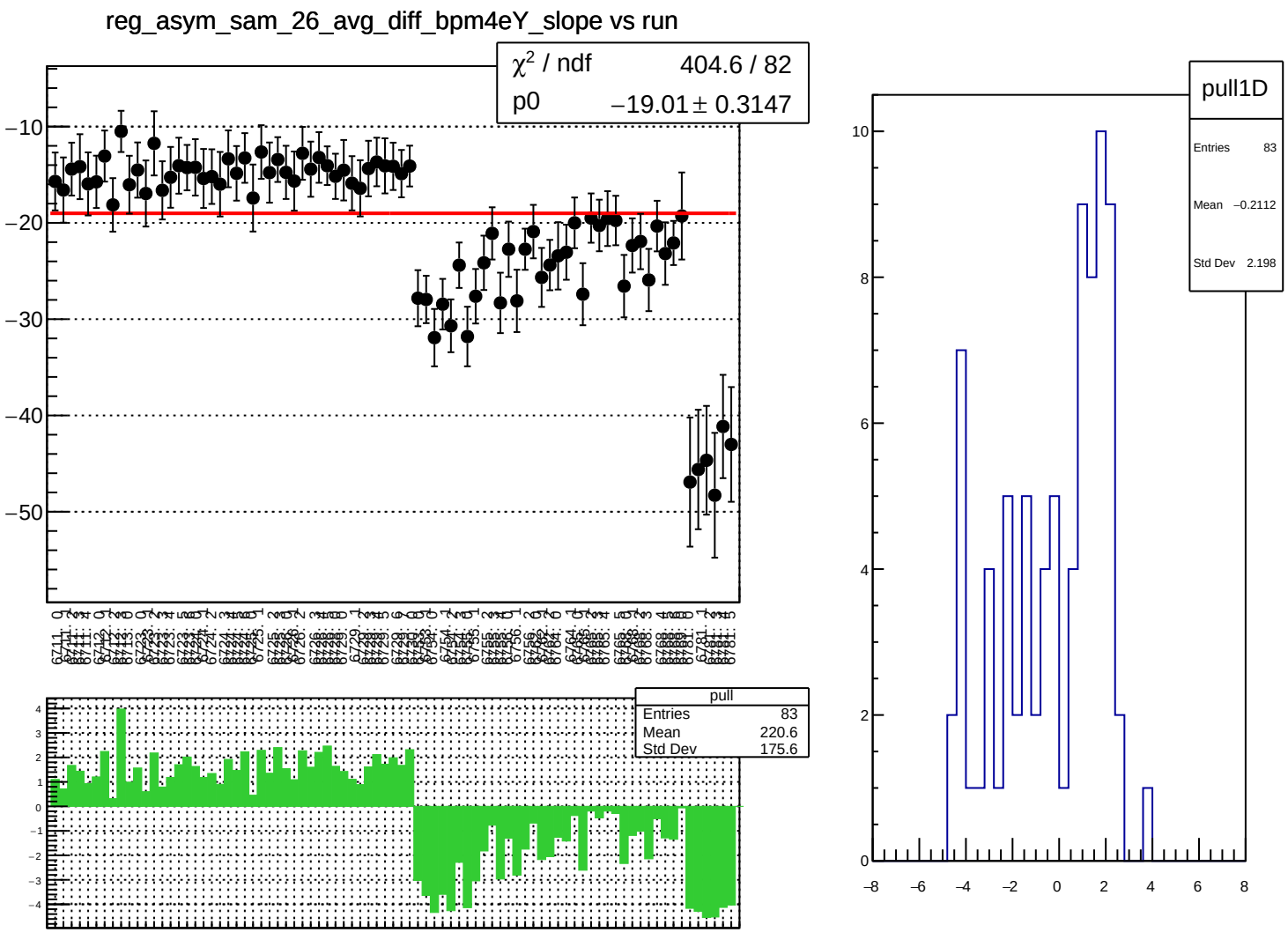

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 91.72 / 82
p0 21.98 ± 0.1471
28
26
24
22
20
18
pull
Entries 83
Mean 1084
Std Dev 1039
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean 0.01788
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

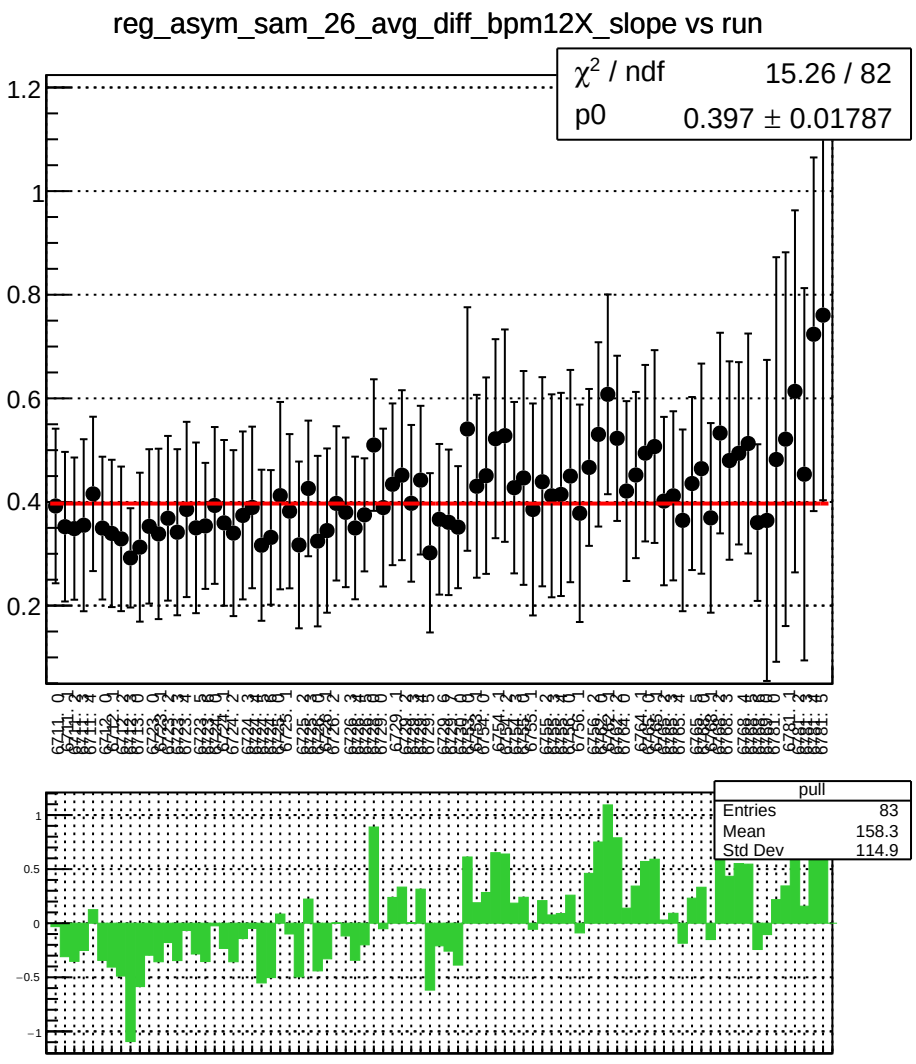

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 20.59 / 82
p0 −0.2177 ± 0.008447
pull
Entries 83
Mean −107.4
Std Dev 156.8
pull1D
Entries 83
Mean −0.008883
Std Dev 0.498

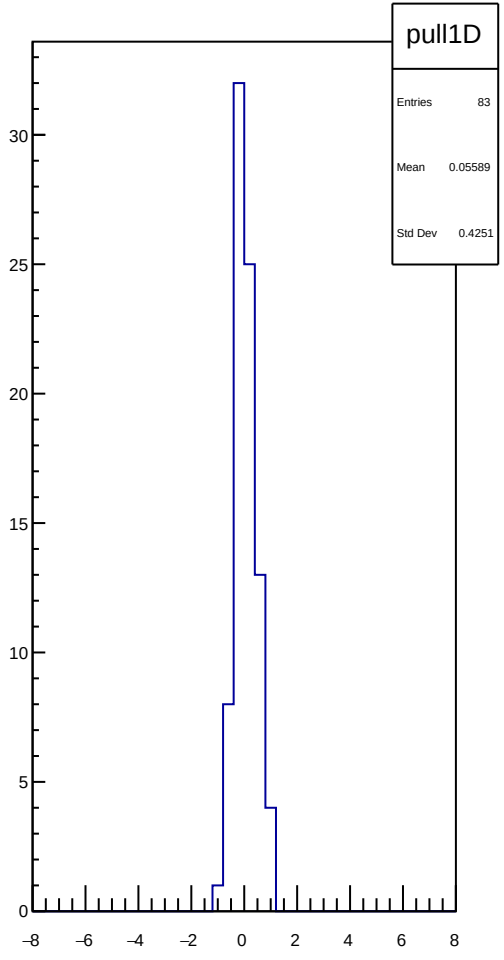

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 96.8 / 82
p0 −2.523 ± 0.3945
pull
Entries 83
Mean 137.7
Std Dev 92.35
pull1D
Entries 83
Mean −0.2113
Std Dev 1.059

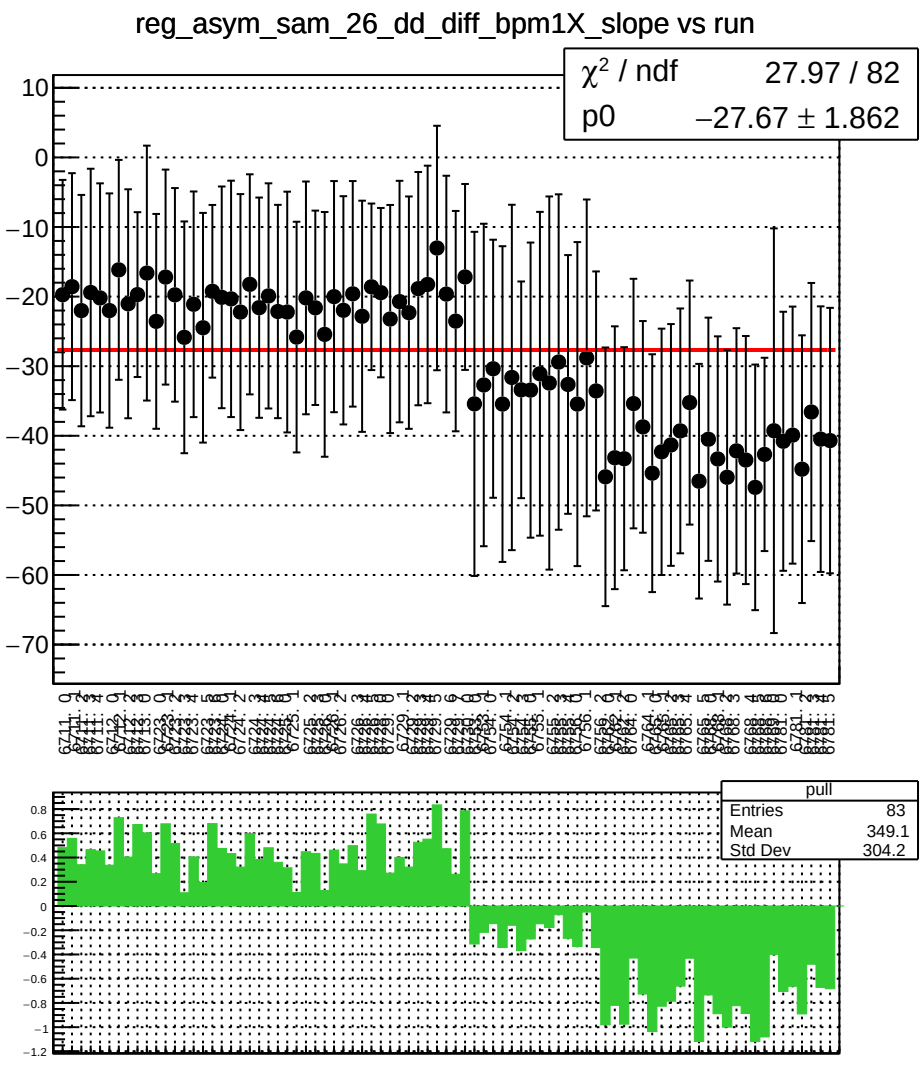

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 77.95 / 82
p0 3.941 ± 0.2517
pull
Entries 83
Mean −416.7
Std Dev 447.8
pull1D
Entries 83
Mean −0.01452
Std Dev 0.969

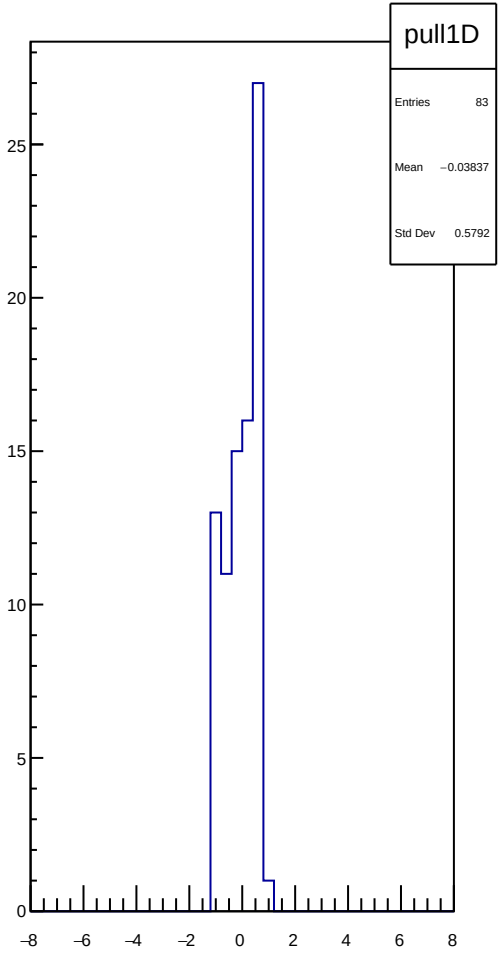

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 136.9 / 82
p0 −30.82 ± 0.3798
pull
Entries 83
Mean 105.6
Std Dev 49.3
pull1D
Entries 83
Mean −0.255
Std Dev 1.259

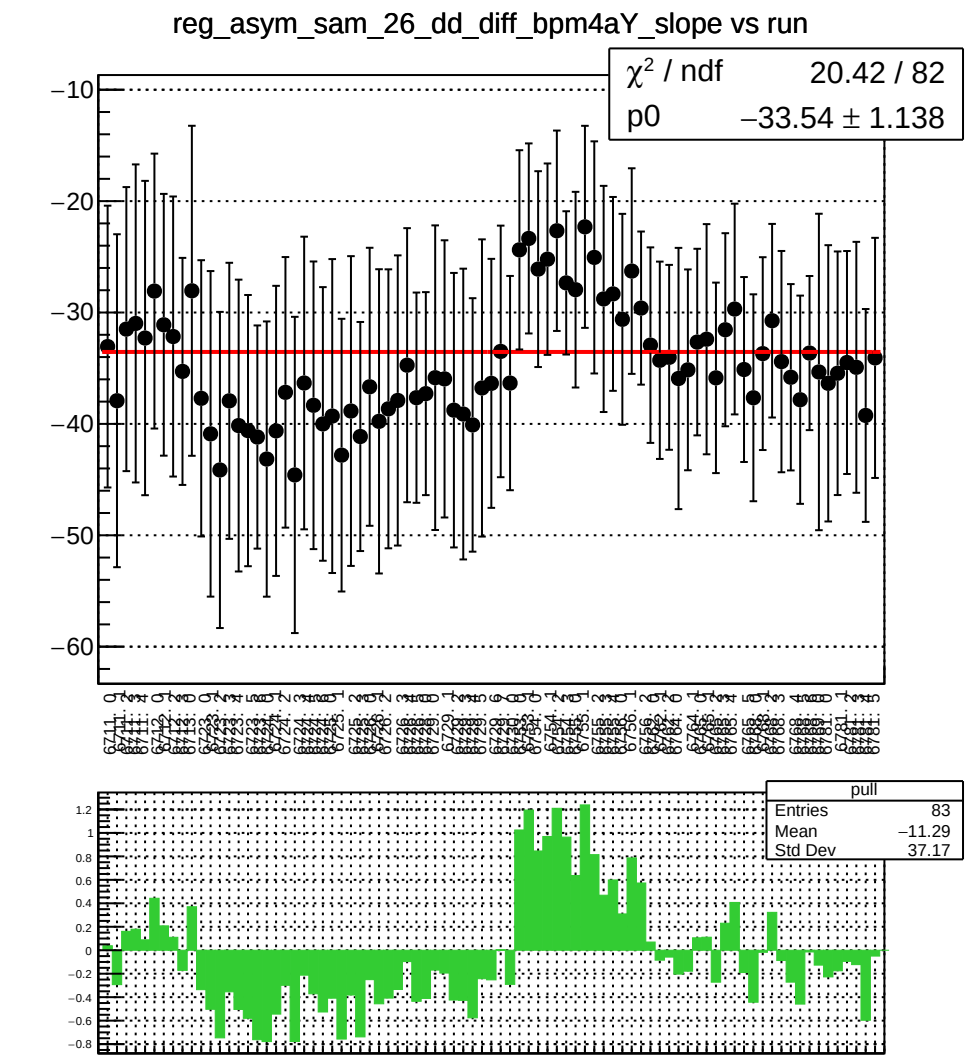

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 404.6 / 82
p0 −19.01 ± 0.3147
−10
−20
−30
−40
−50
pull
Entries 83
Mean 220.6
Std Dev 175.6
pull1D
Entries 83
Mean −0.2112
Std Dev 2.198

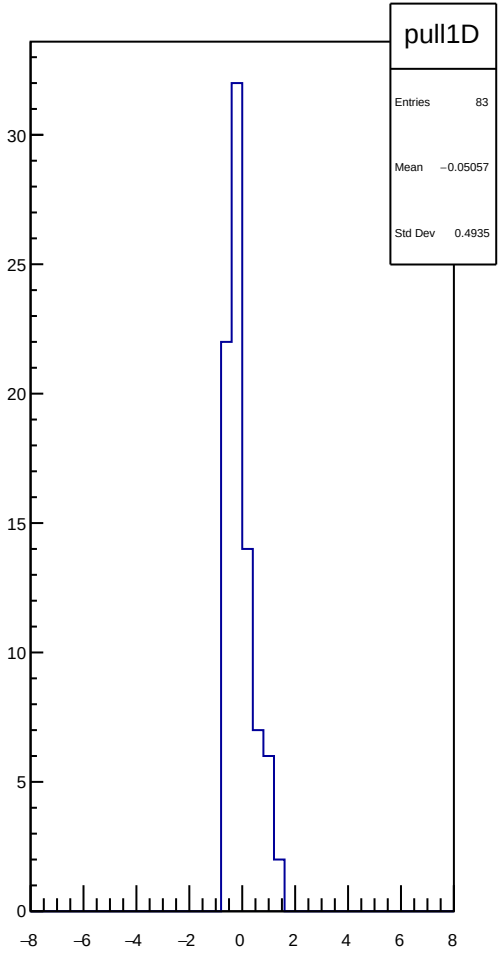

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 15.26 / 82
p0 0.397 ± 0.01787
pull
Entries 83
Mean 158.3
Std Dev 114.9

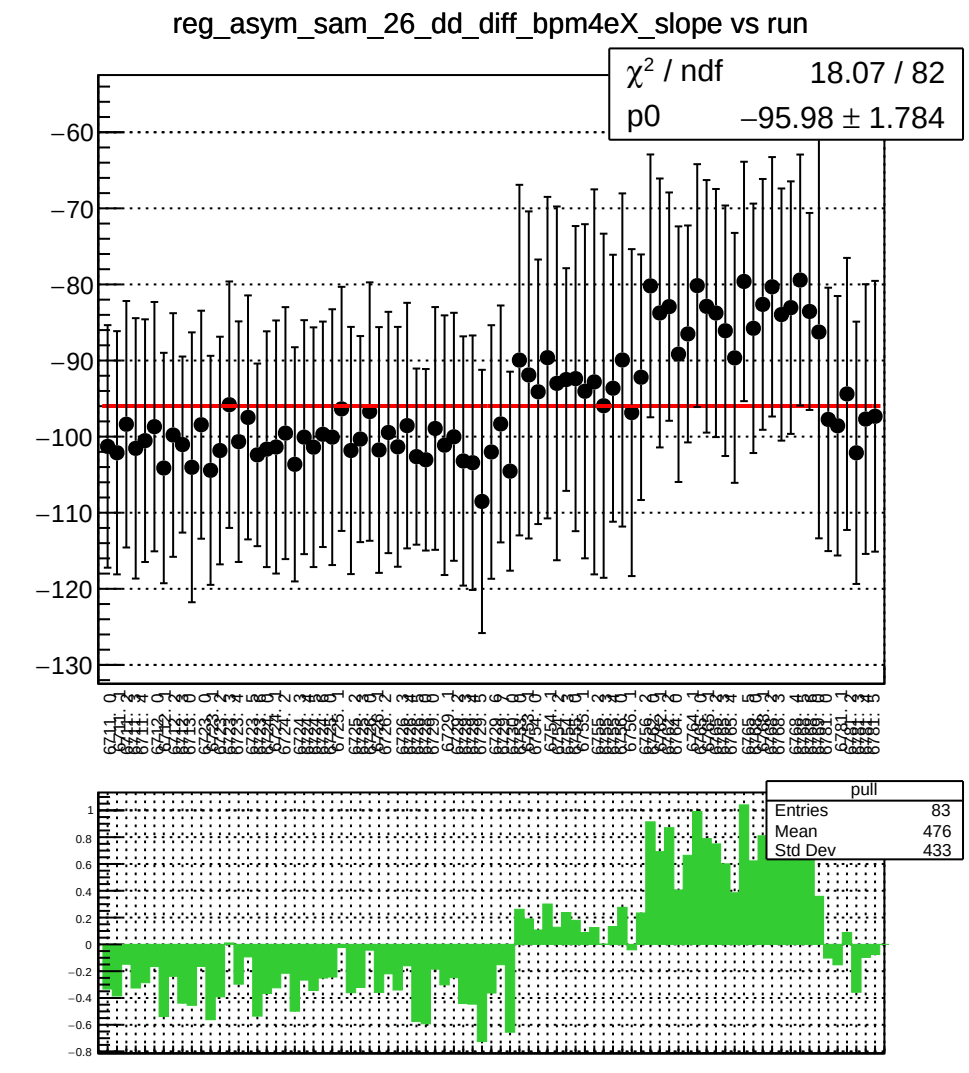

pull1D
Entries 83
Mean 0.05589
Std Dev 0.4251

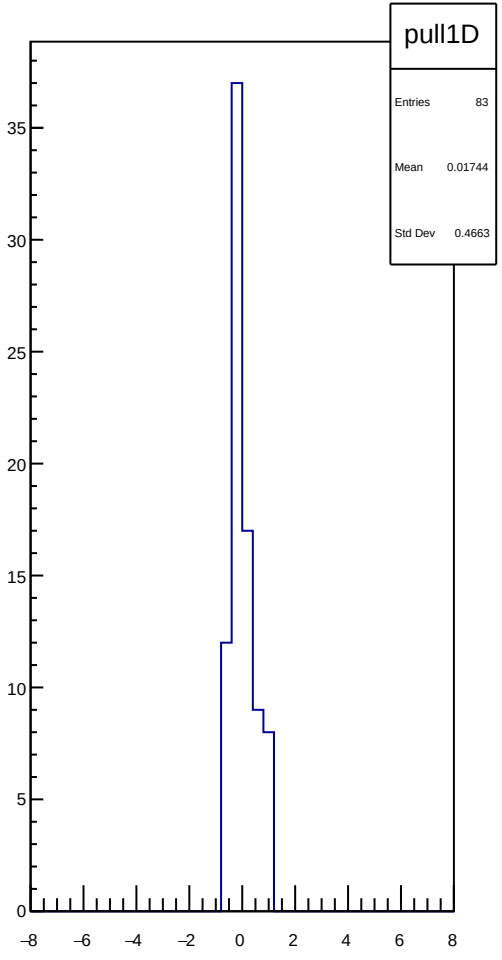

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 27.97 / 82
p0 −27.67 ± 1.862
pull
Entries 83
Mean 349.1
Std Dev 304.2

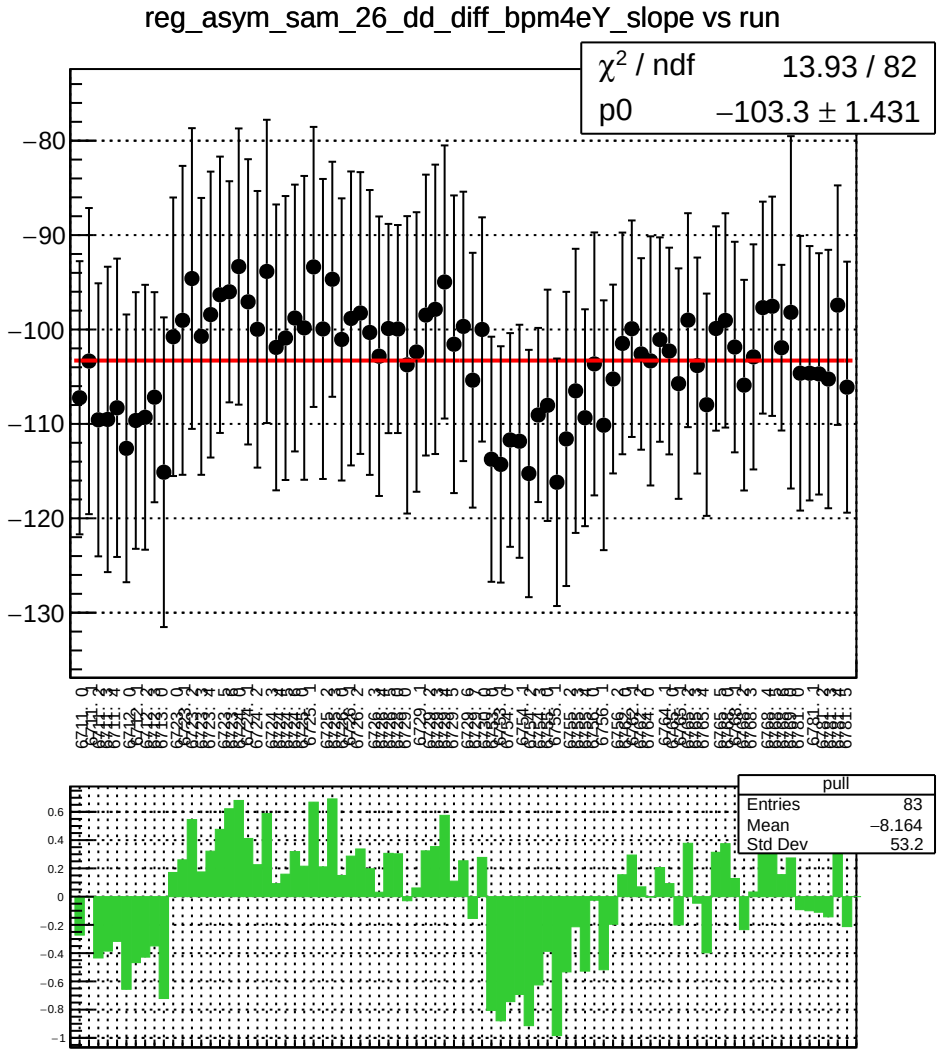

pull1D
Entries 83
Mean −0.03837
Std Dev 0.5792

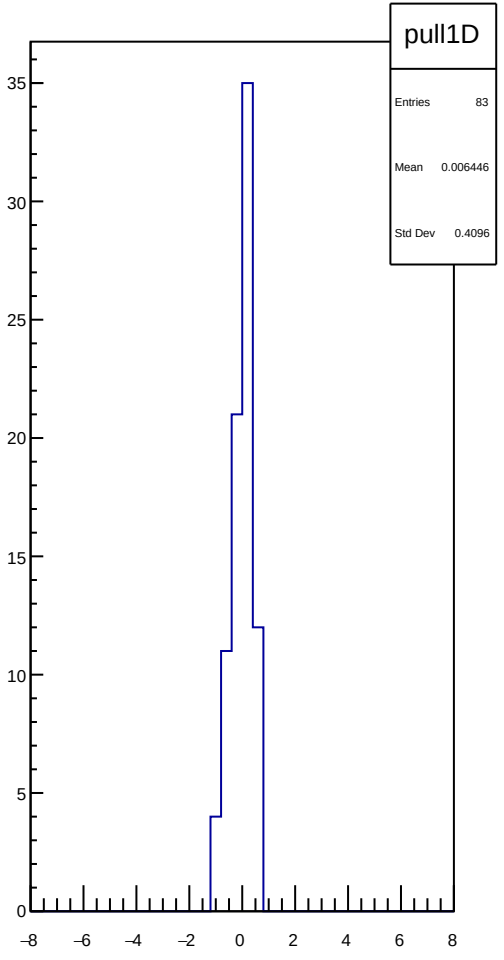

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.42 / 82
p0 −33.54 ± 1.138
pull
Entries 83
Mean −11.29
Std Dev 37.17

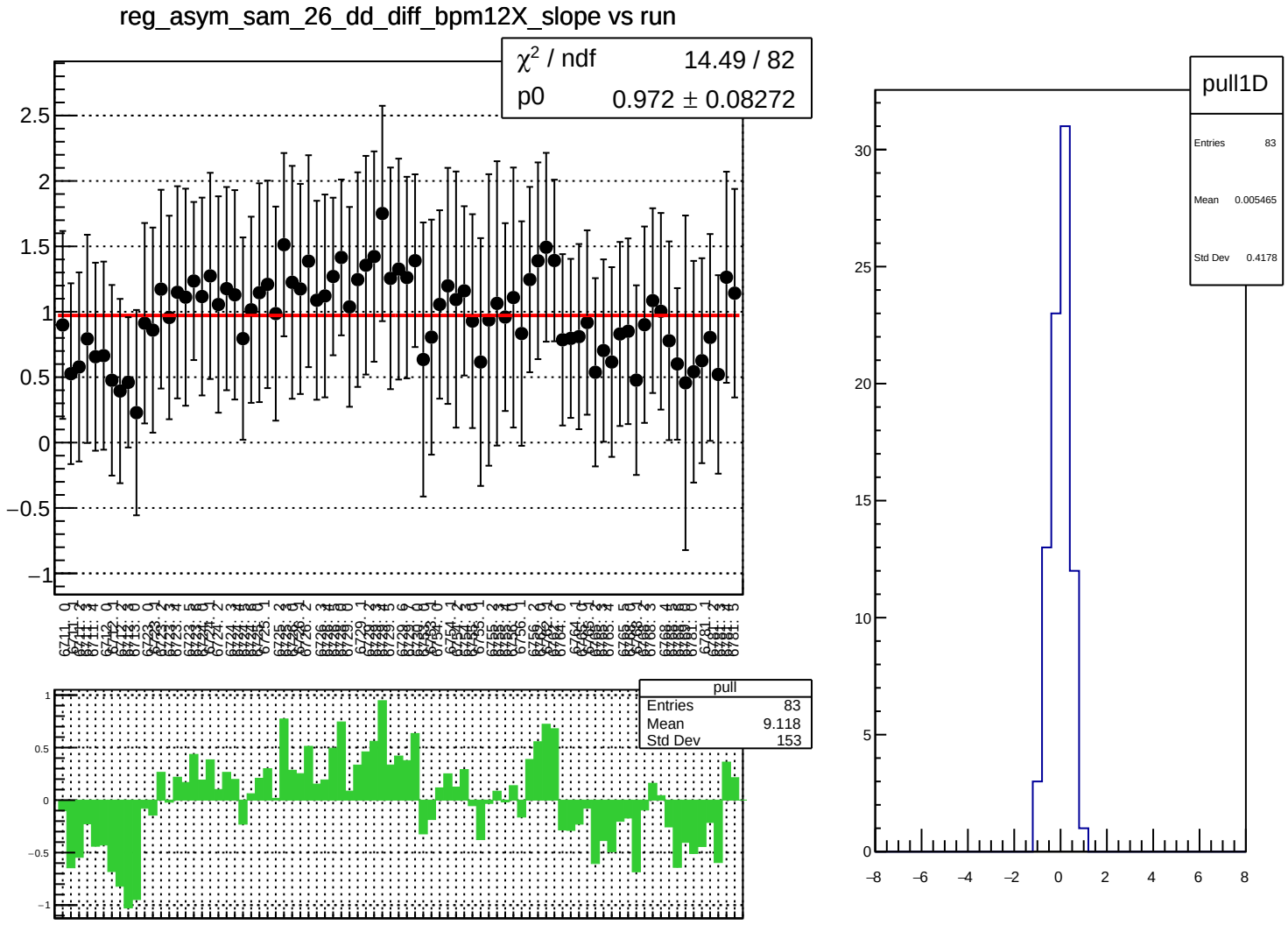

pull1D
Entries 83
Mean −0.05057
Std Dev 0.4935

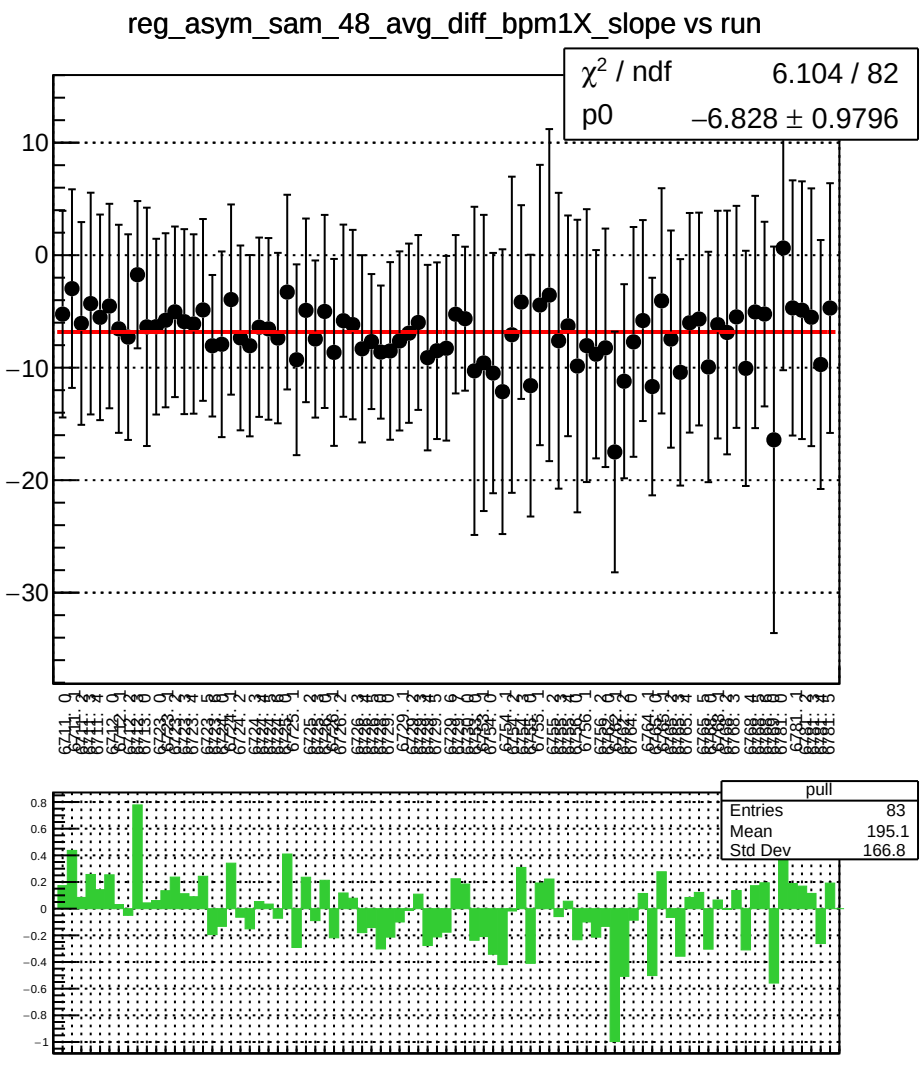

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.07 / 82
p0 −95.98 ± 1.784
pull
Entries 83
Mean 476
Std Dev 433

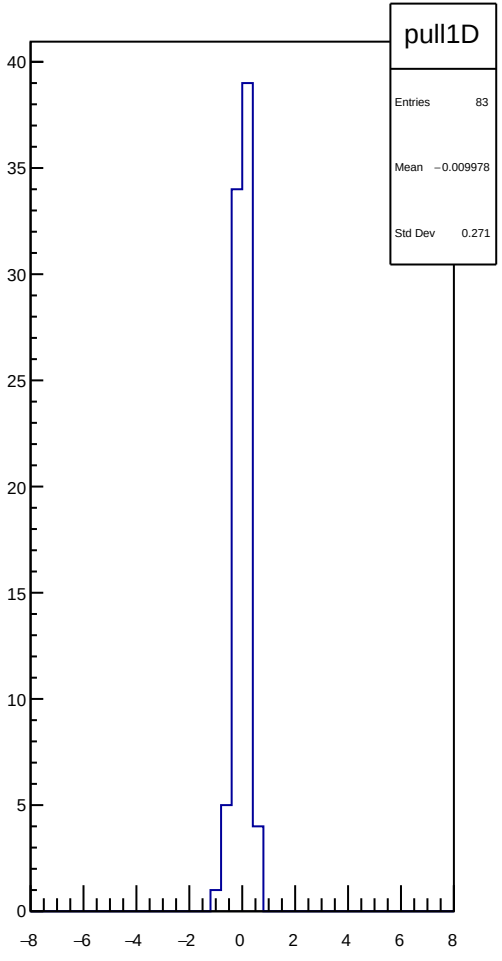

pull1D
Entries 83
Mean 0.01744
Std Dev 0.4663

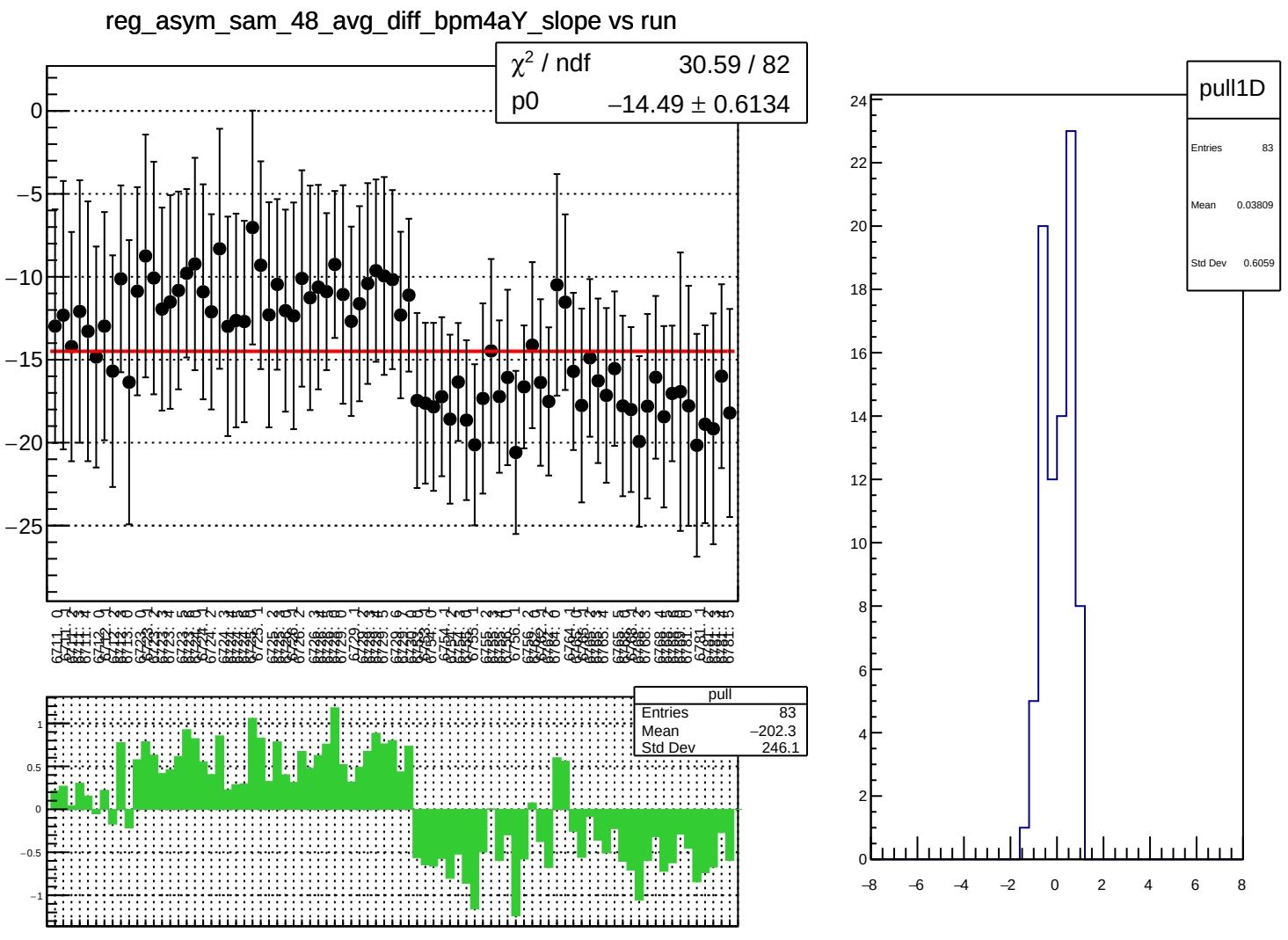

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.93 / 82
p0 −103.3 ± 1.431
pull
Entries 83
Mean −8.164
Std Dev 53.2

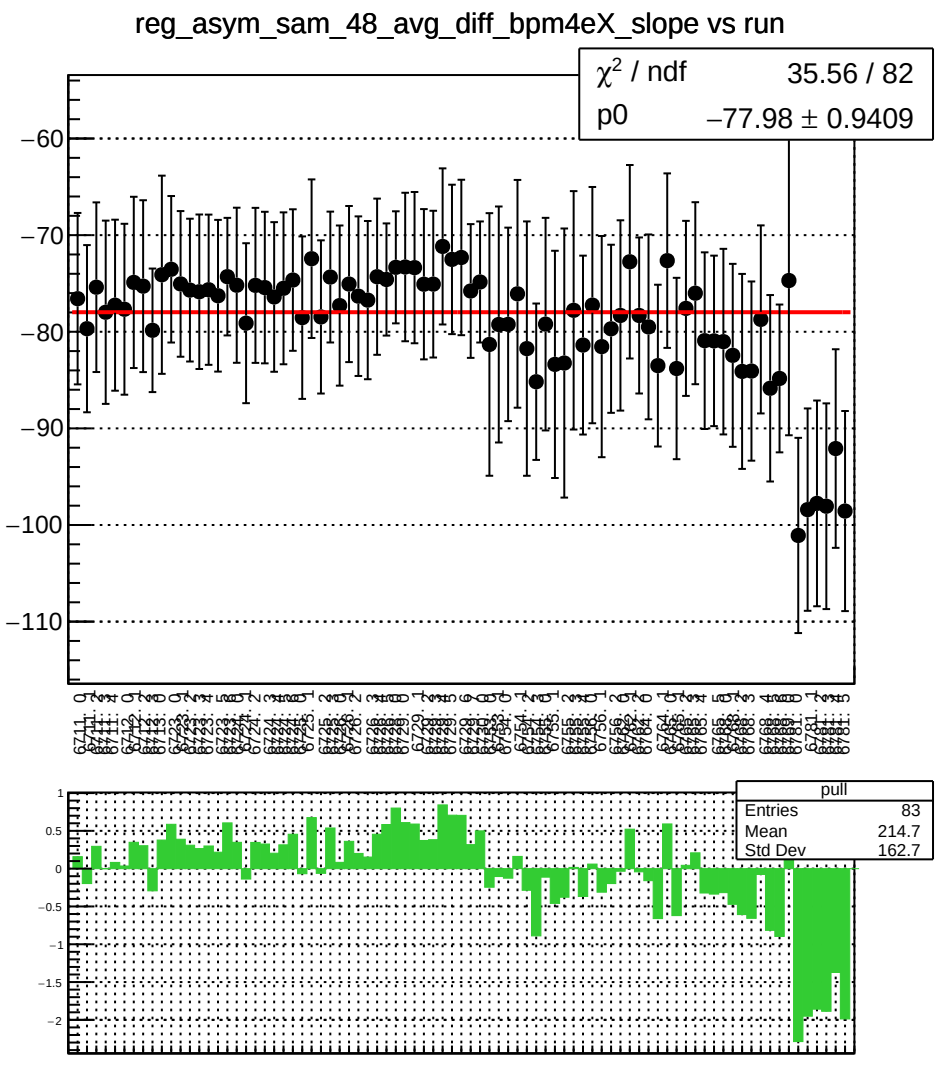

pull1D
Entries 83
Mean 0.006446
Std Dev 0.4096

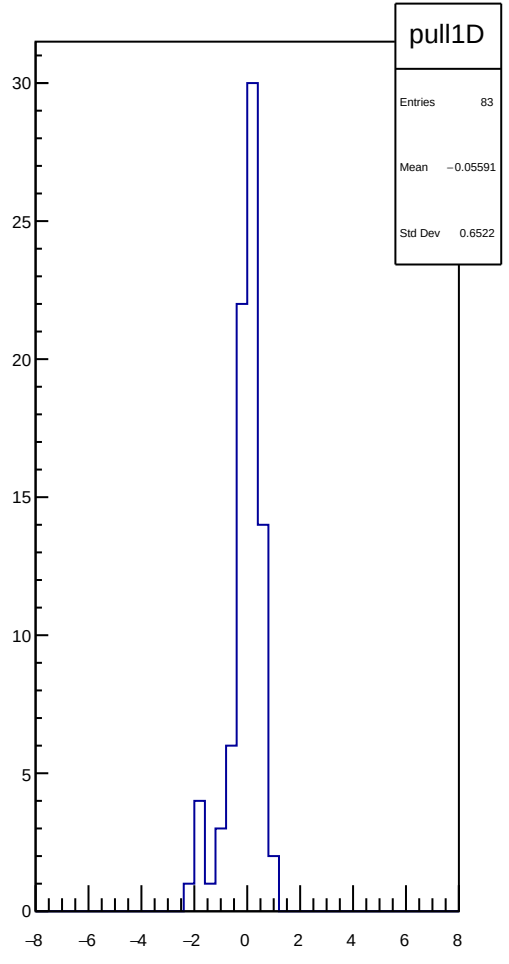

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 14.49 / 82
p0 0.972 ± 0.08272
pull
Entries 83
Mean 9.118
Std Dev 153
pull1D
Entries 83
Mean 0.005465
Std Dev 0.4178

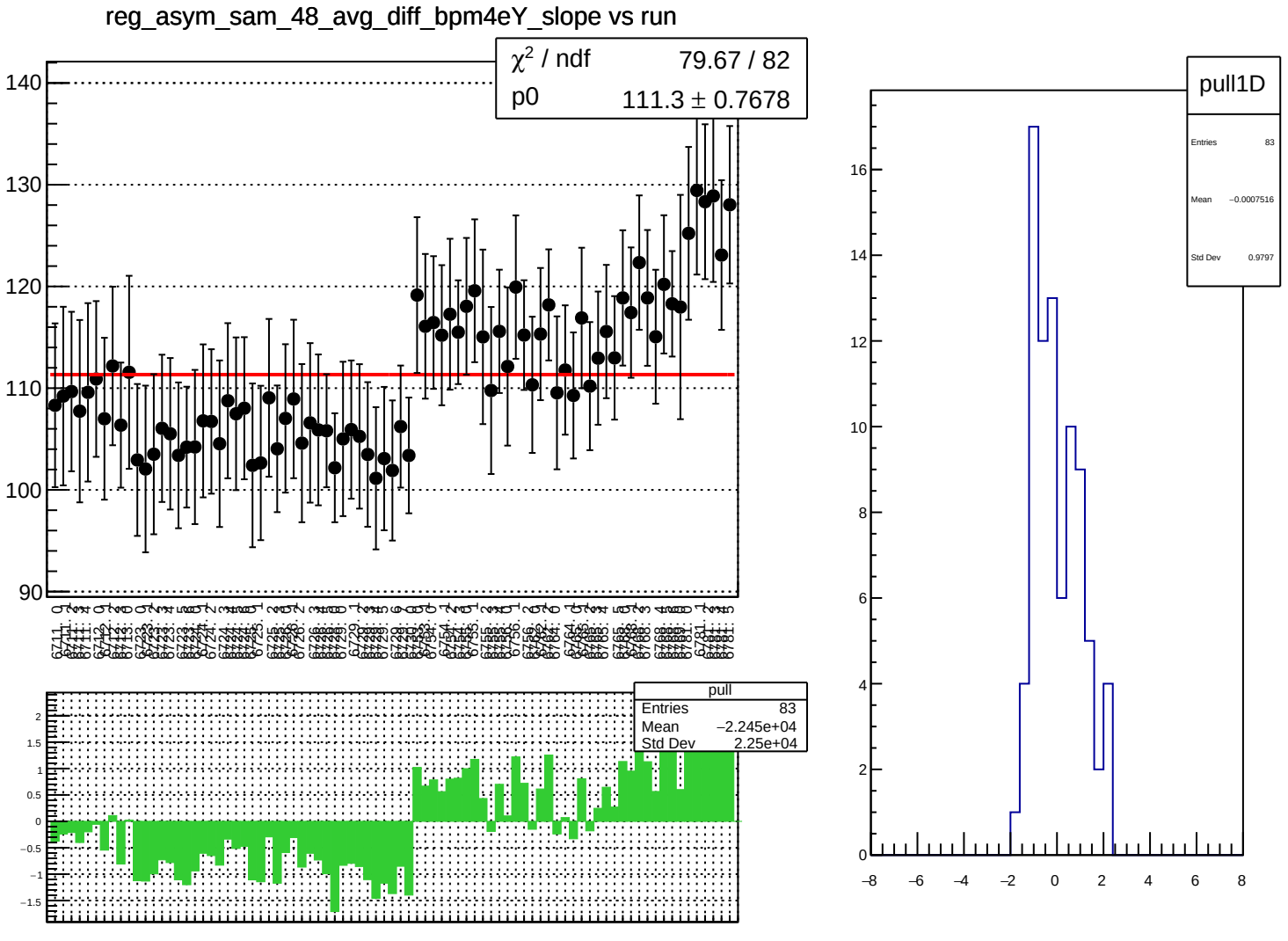

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 6.104 / 82
p0 −6.828 ± 0.9796
pull
Entries 83
Mean 195.1
Std Dev 166.8

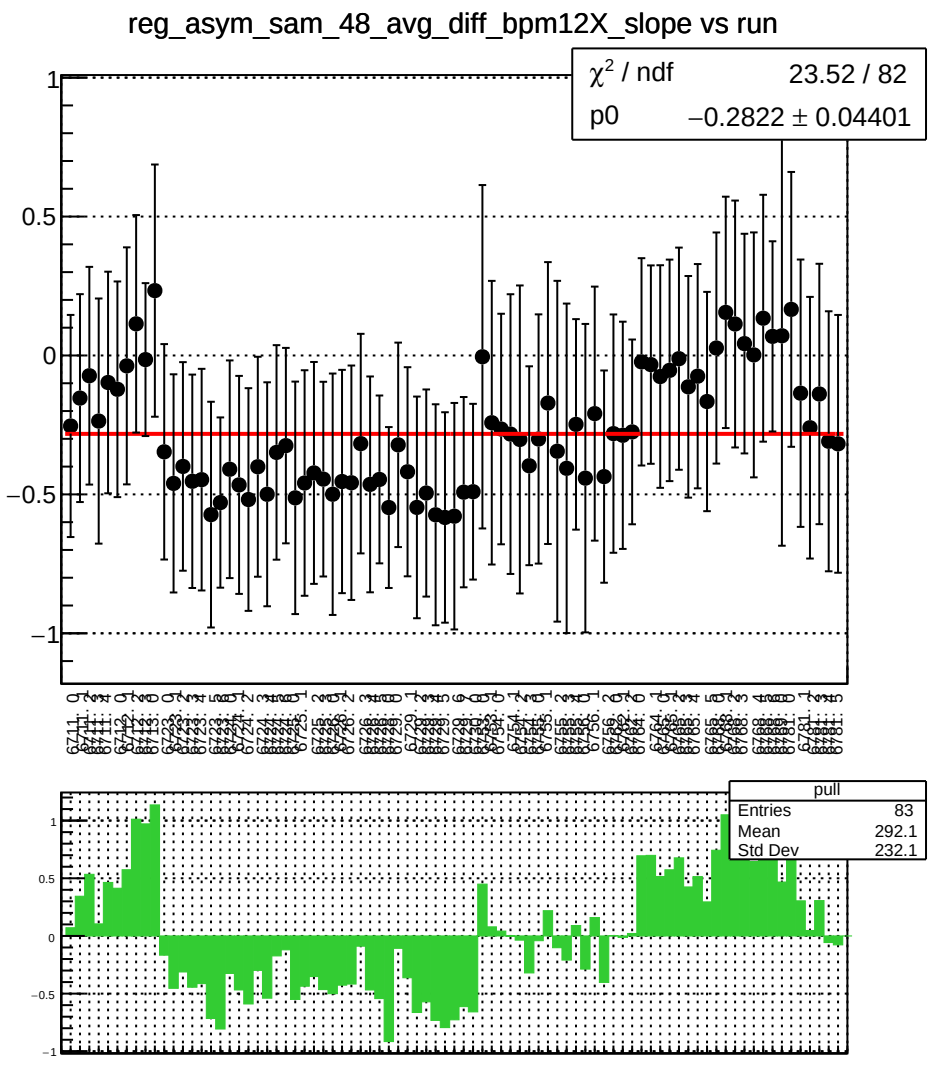

pull1D
Entries 83
Mean −0.009978
Std Dev 0.271

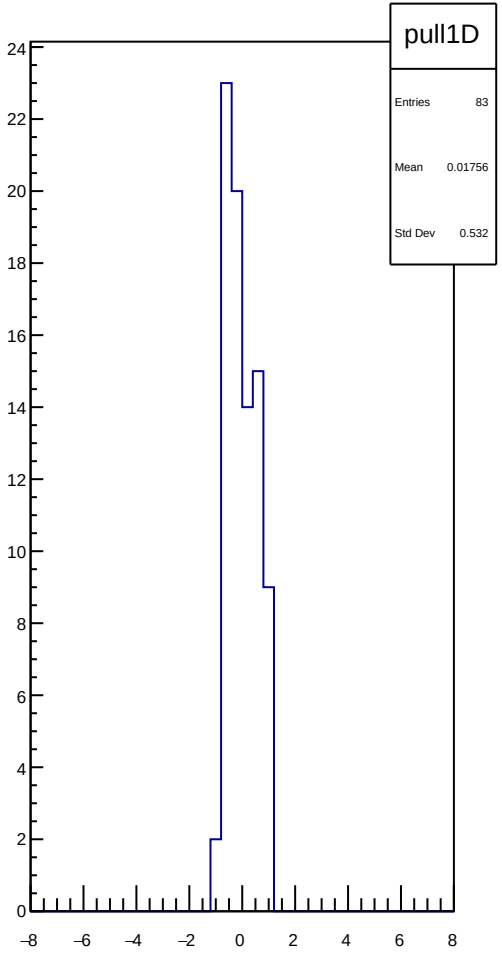

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.59 / 82
p0 −14.49 ± 0.6134
pull
Entries 83
Mean −202.3
Std Dev 246.1
pull1D
Entries 83
Mean 0.03809
Std Dev 0.6059

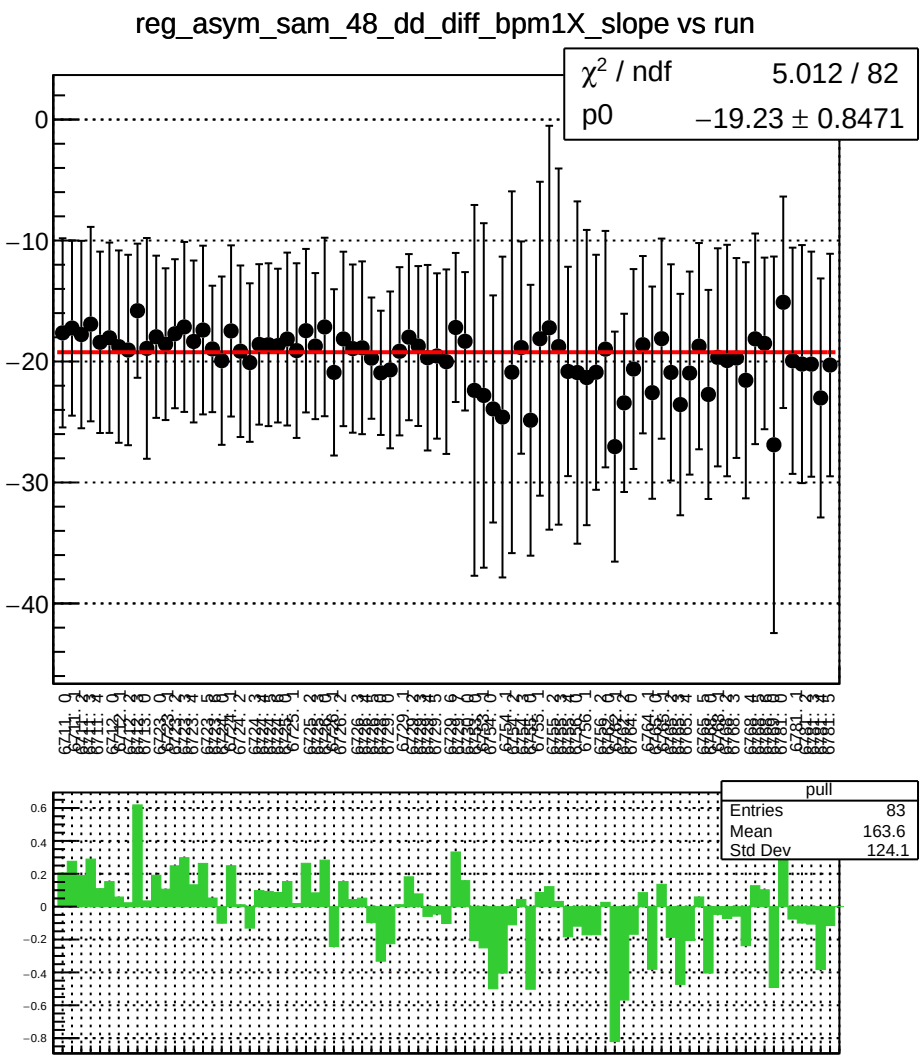

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.56 / 82
p0 −77.98 ± 0.9409
−60
−70
−80
−90
−100
−110
pull
Entries 83
Mean 214.7
Std Dev 162.7
1
0.5
0
−0.5
−1
−1.5
−2

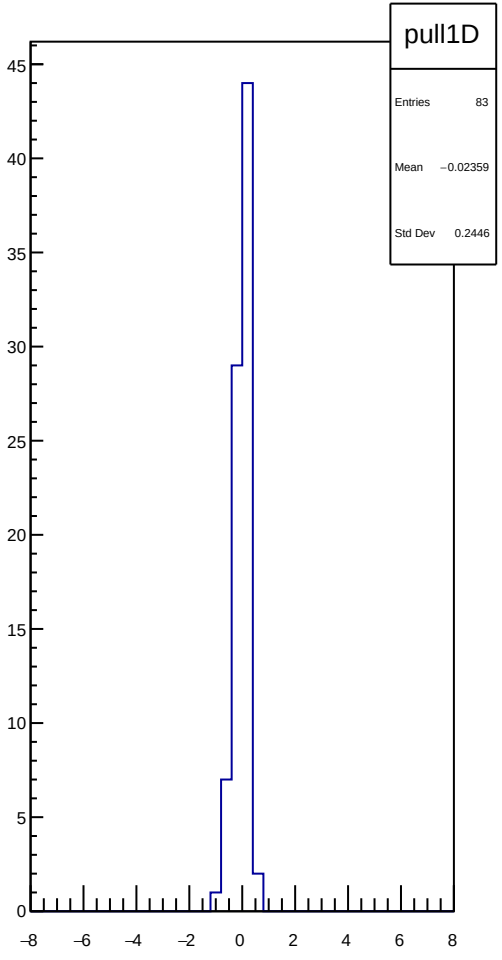

pull1D
Entries 83
Mean −0.05591
Std Dev 0.6522
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

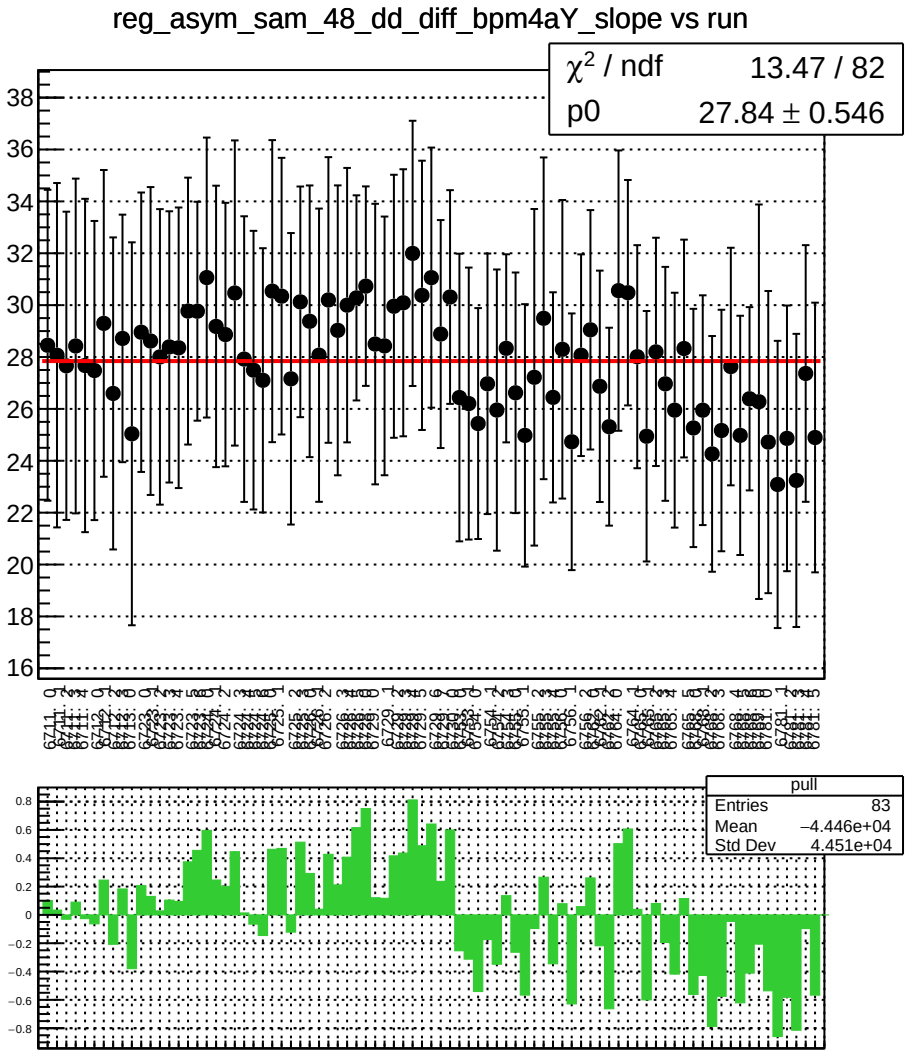

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.67 / 82
p0 111.3 ± 0.7678
140
130
120
110
100
90
pull
Entries 83
Mean −2.245e+04
Std Dev 2.25e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean −0.0007516
Std Dev 0.9797
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

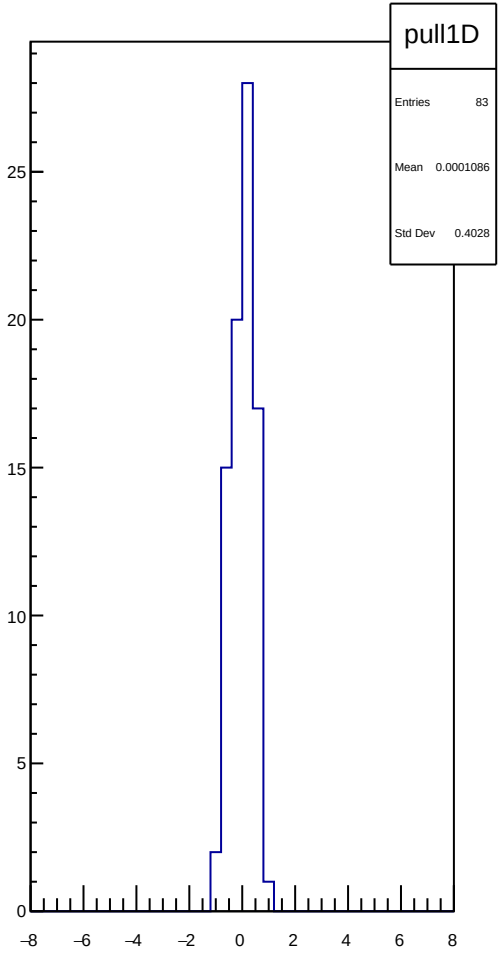

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 23.52 / 82
p0 −0.2822 ± 0.04401
pull
Entries 83
Mean 292.1
Std Dev 232.1

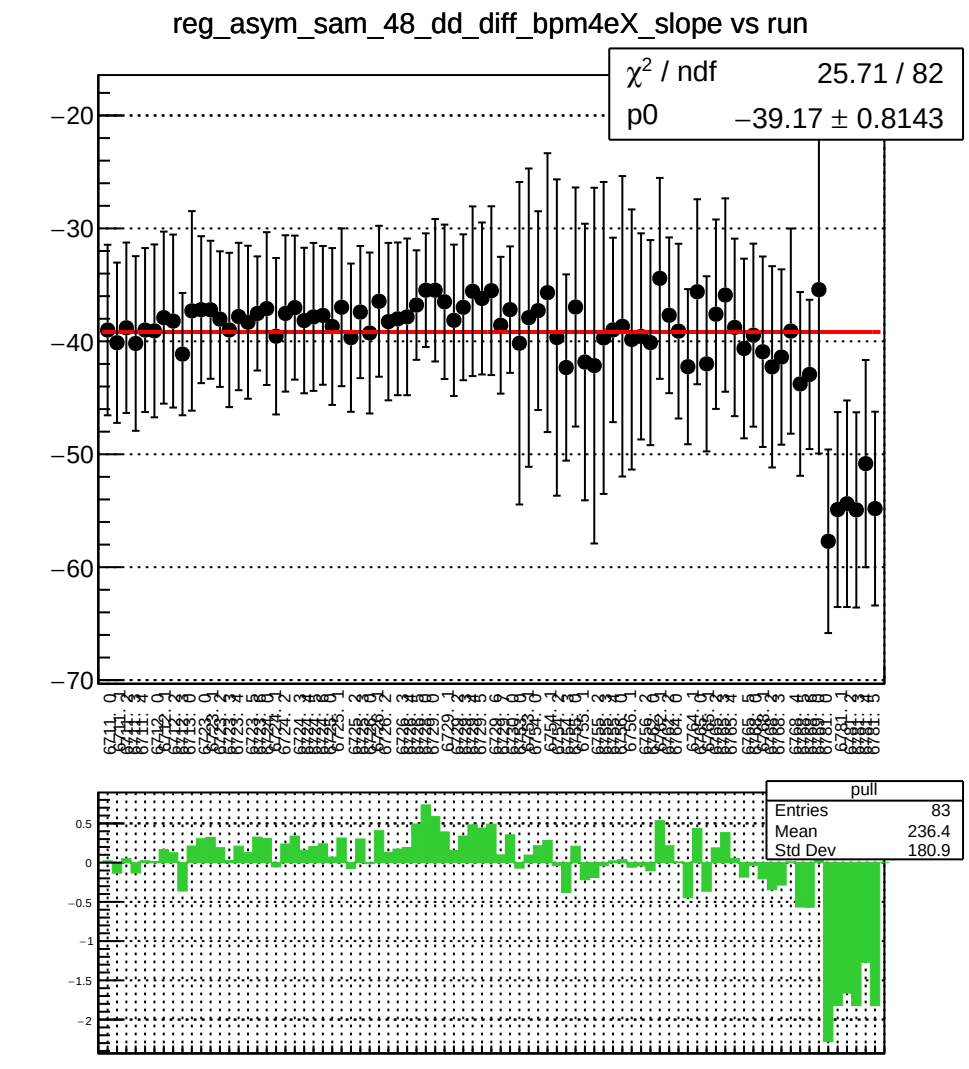

pull1D
Entries 83
Mean 0.01756
Std Dev 0.532

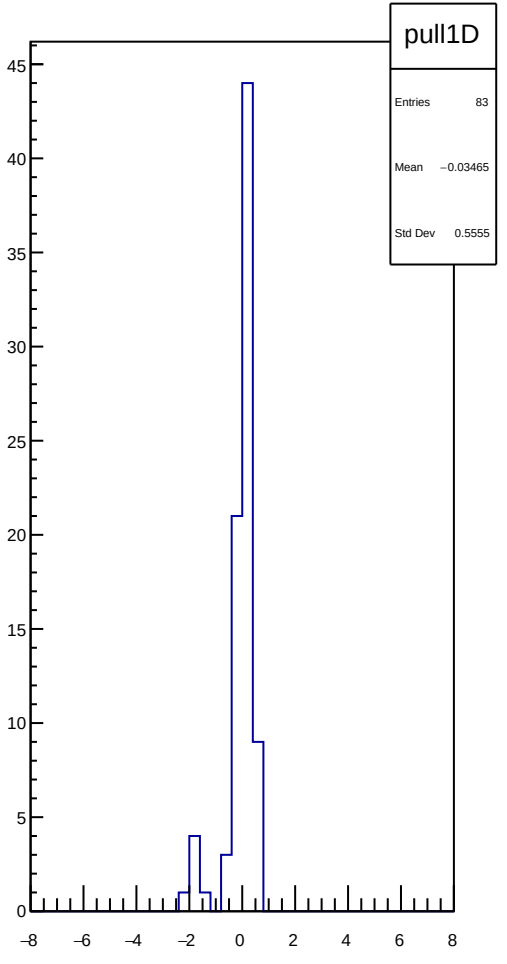

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 5.012 / 82
p0 −19.23 ± 0.8471
pull
Entries 83
Mean 163.6
Std Dev 124.1

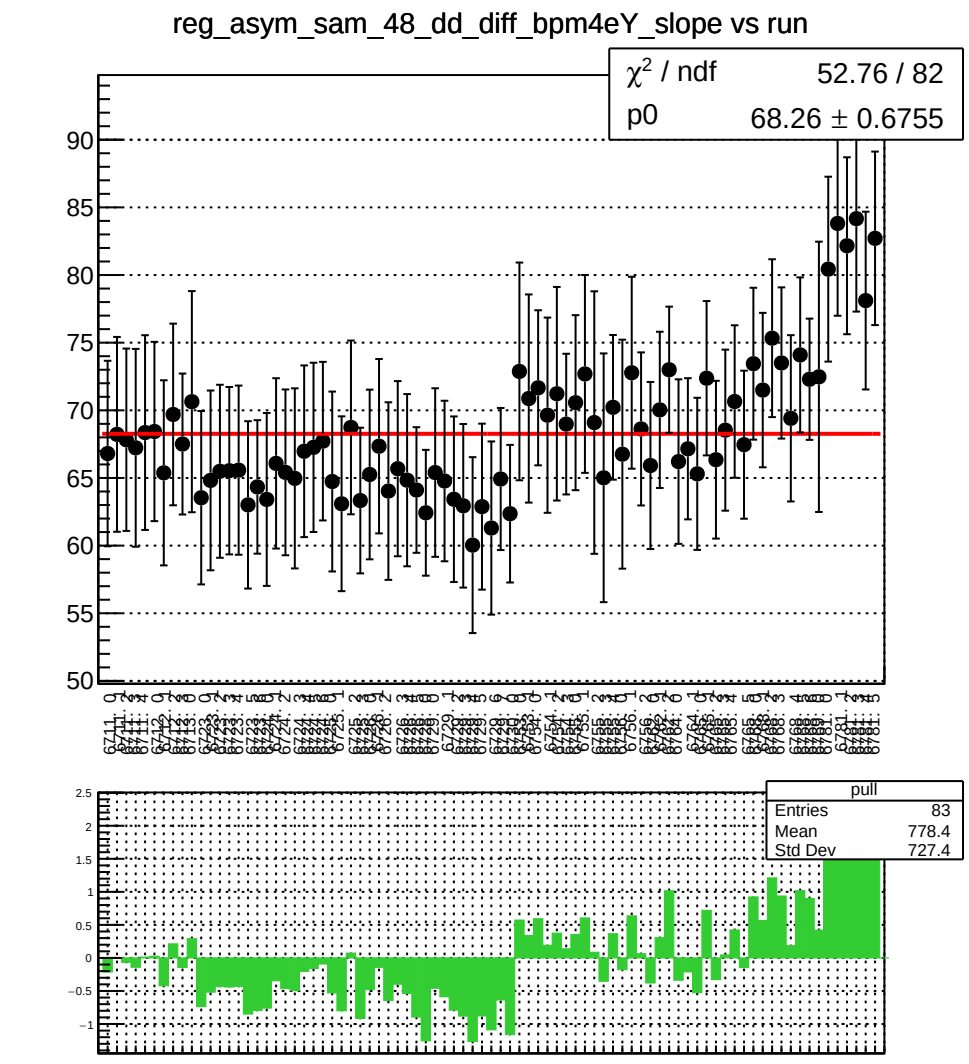

pull1D
Entries 83
Mean −0.02359
Std Dev 0.2446

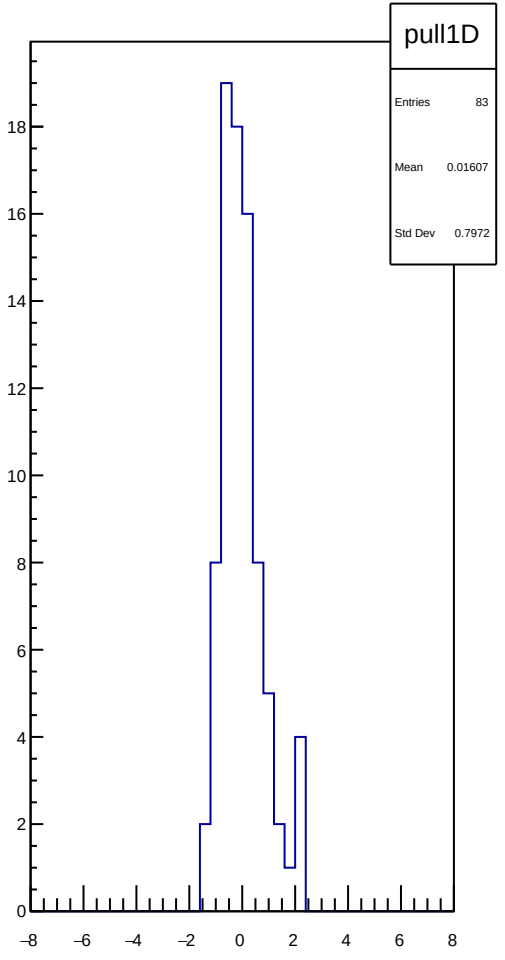

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.47 / 82
p0 27.84 ± 0.546
pull
Entries 83
Mean −4.446e+04
Std Dev 4.451e+04

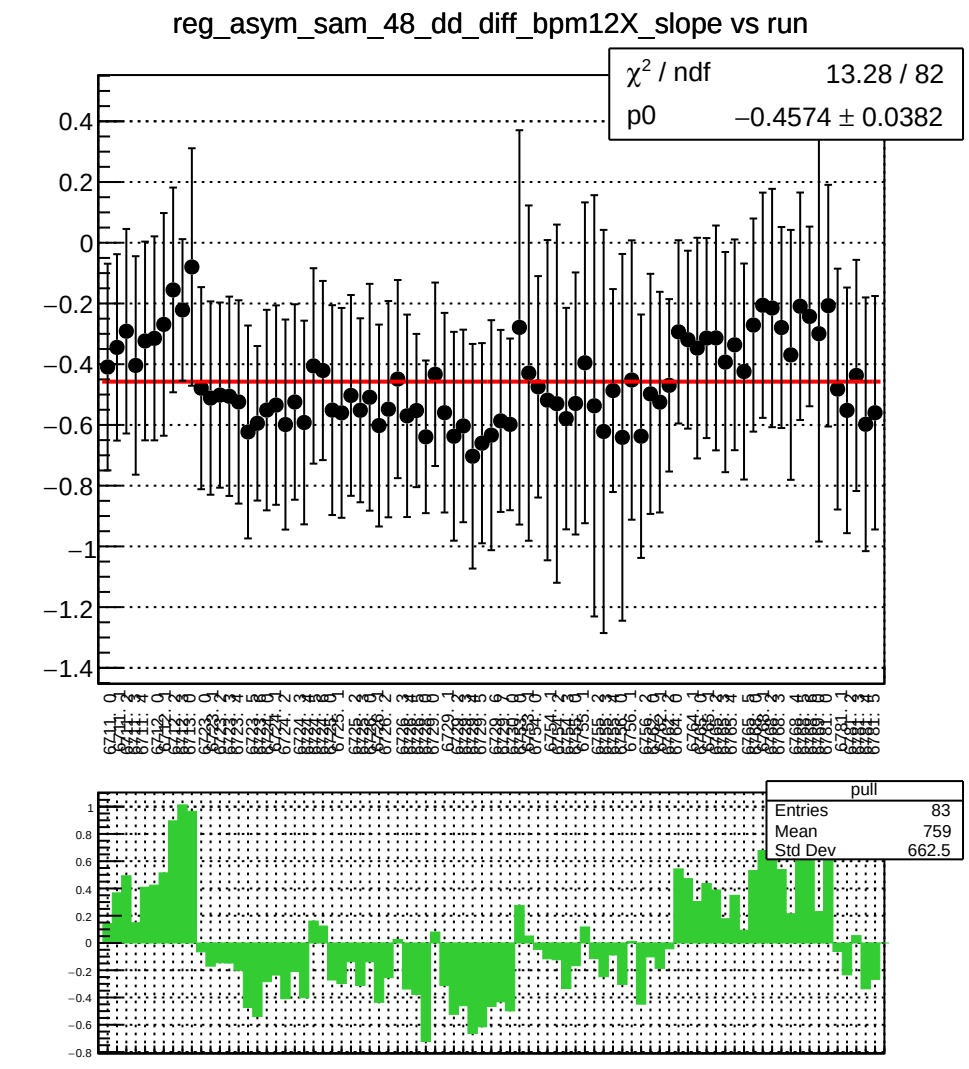

pull1D
Entries 83
Mean 0.0001086
Std Dev 0.4028

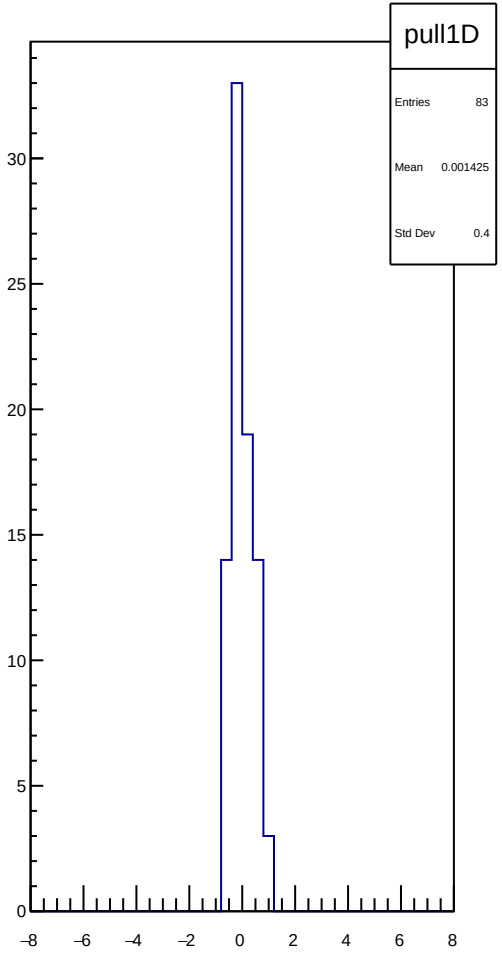

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.71 / 82
p0 −39.17 ± 0.8143
pull
Entries 83
Mean 236.4
Std Dev 180.9

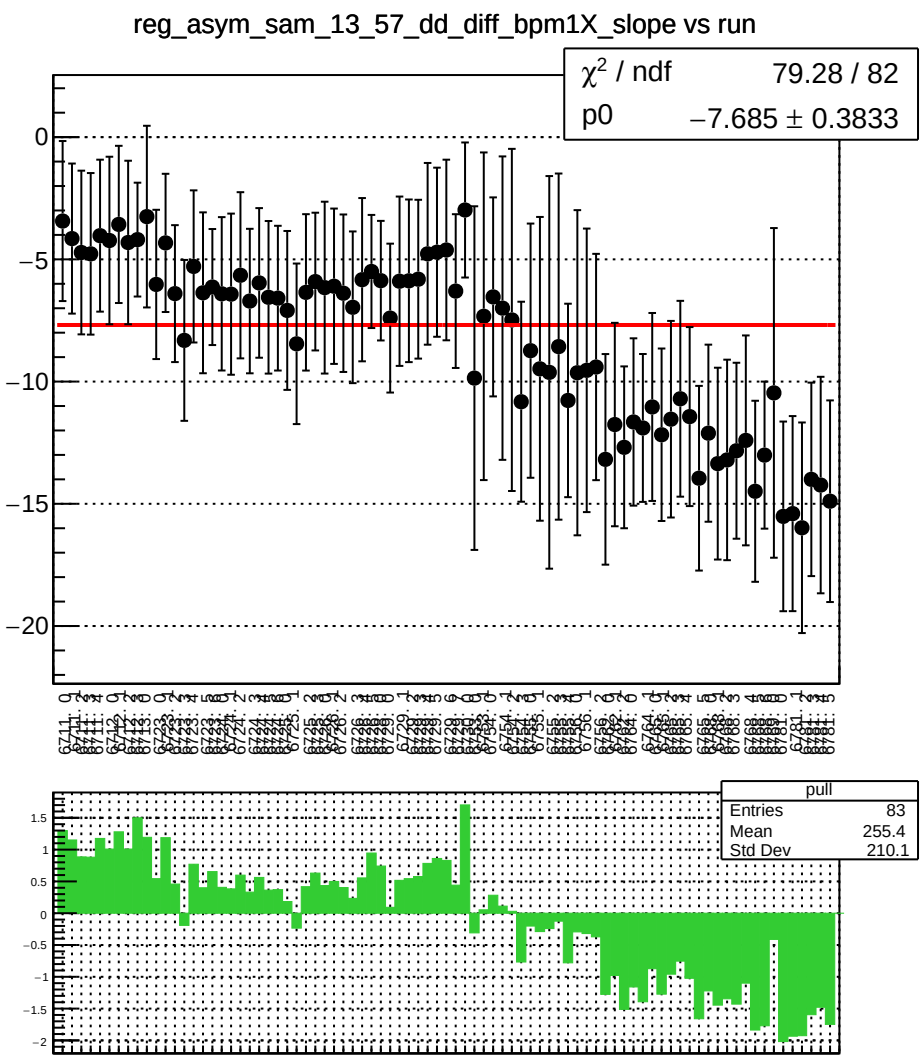

pull1D
Entries 83
Mean −0.03465
Std Dev 0.5555

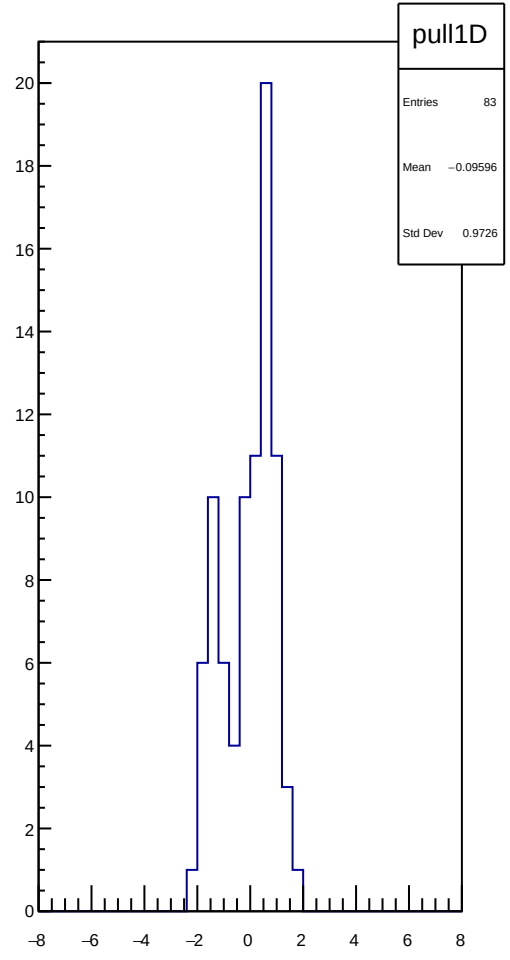

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.76 / 82
p0 68.26 ± 0.6755
pull
Entries 83
Mean 778.4
Std Dev 727.4

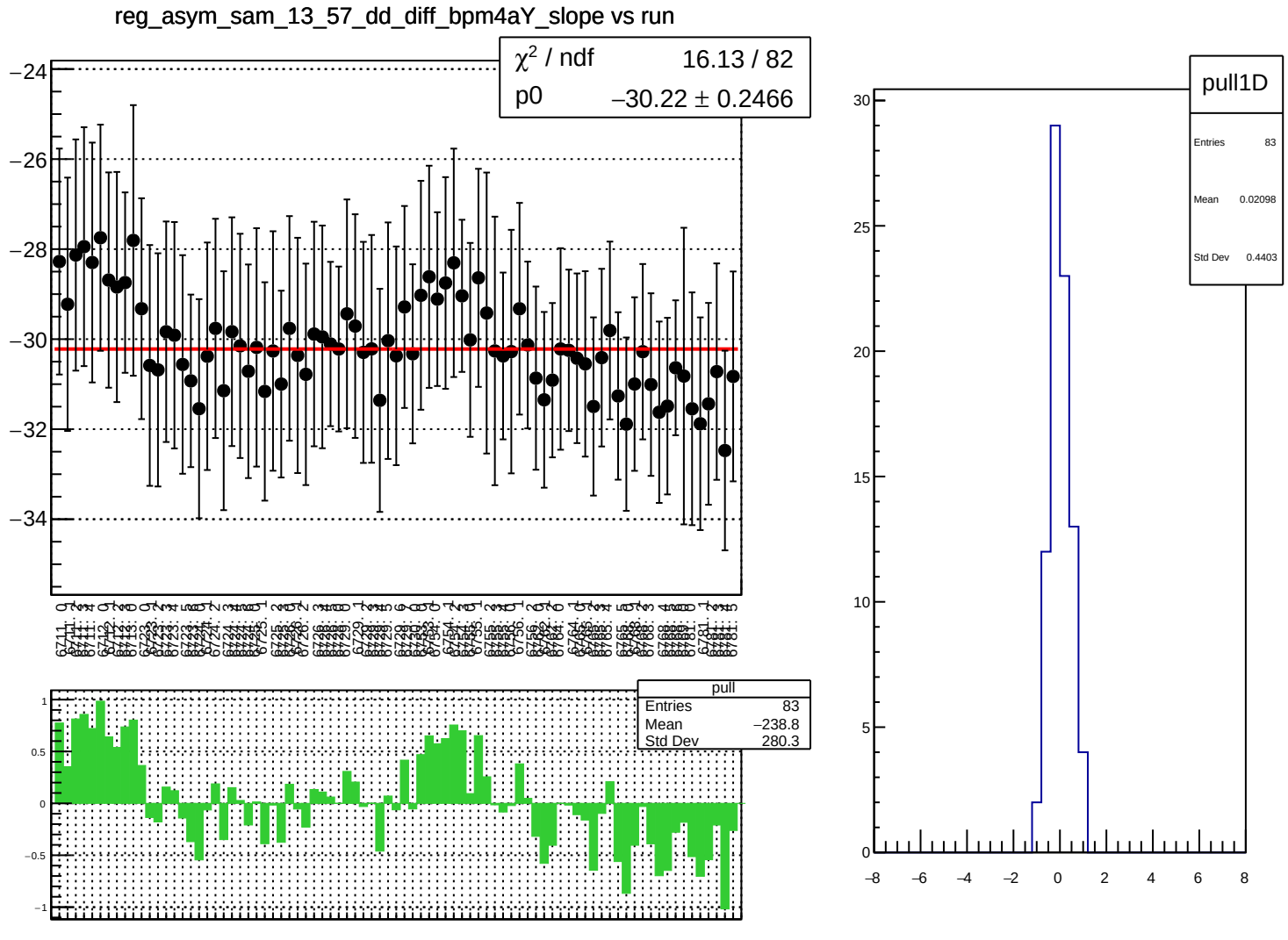

pull1D
Entries 83
Mean 0.01607
Std Dev 0.7972

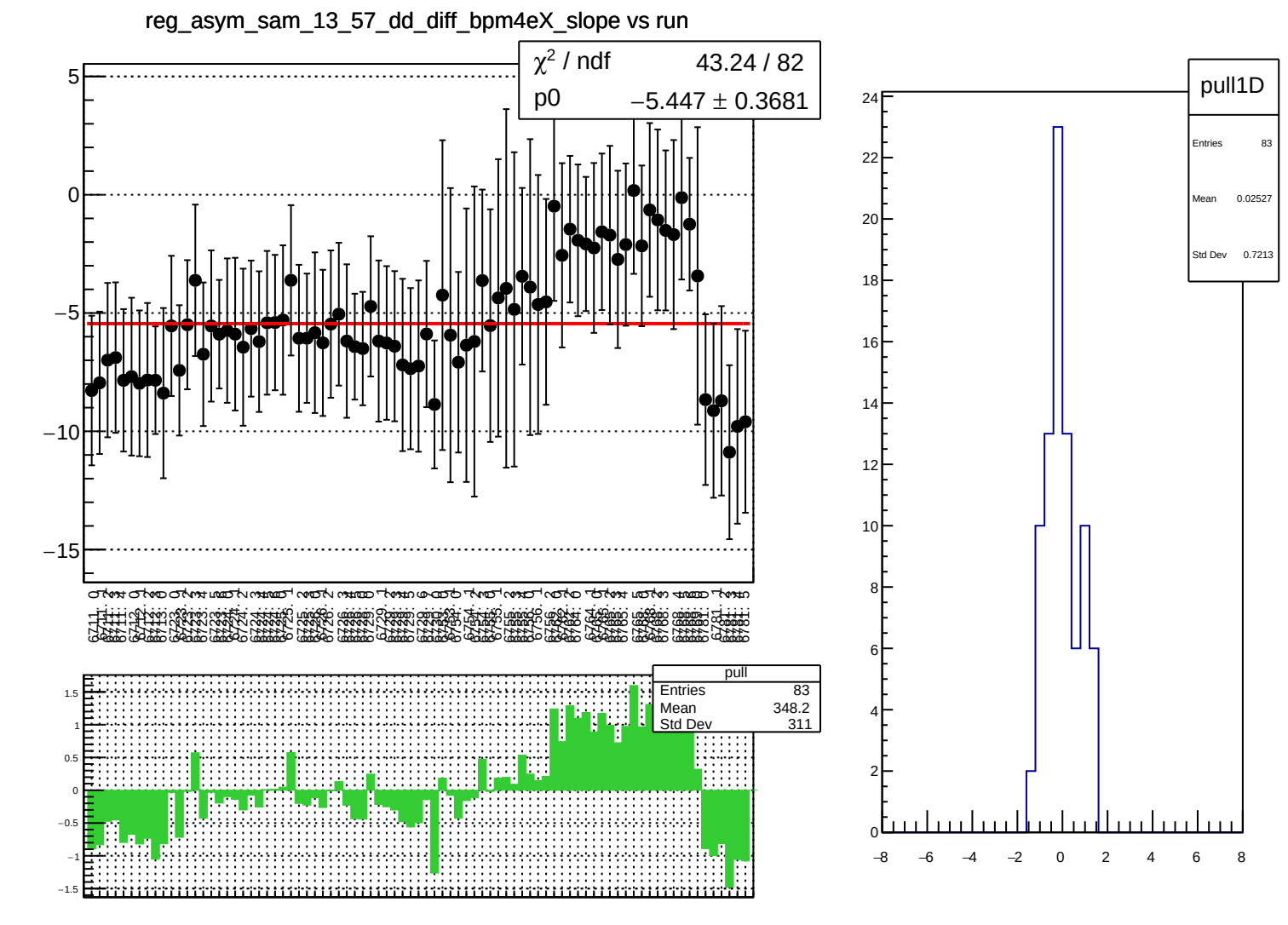

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 13.28 / 82
p0 −0.4574 ± 0.0382
pull
Entries 83
Mean 759
Std Dev 662.5

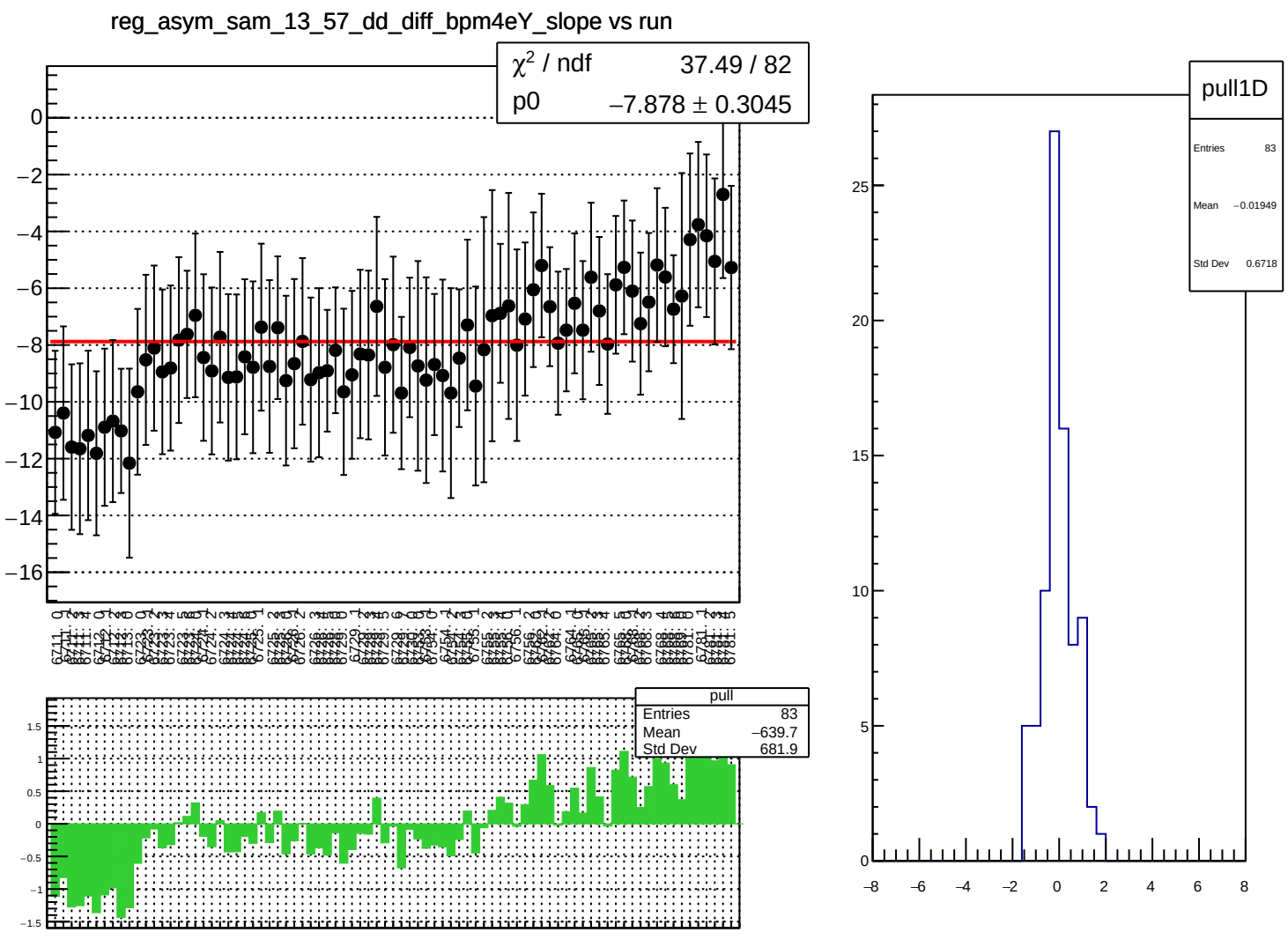

pull1D
Entries 83
Mean 0.001425
Std Dev 0.4

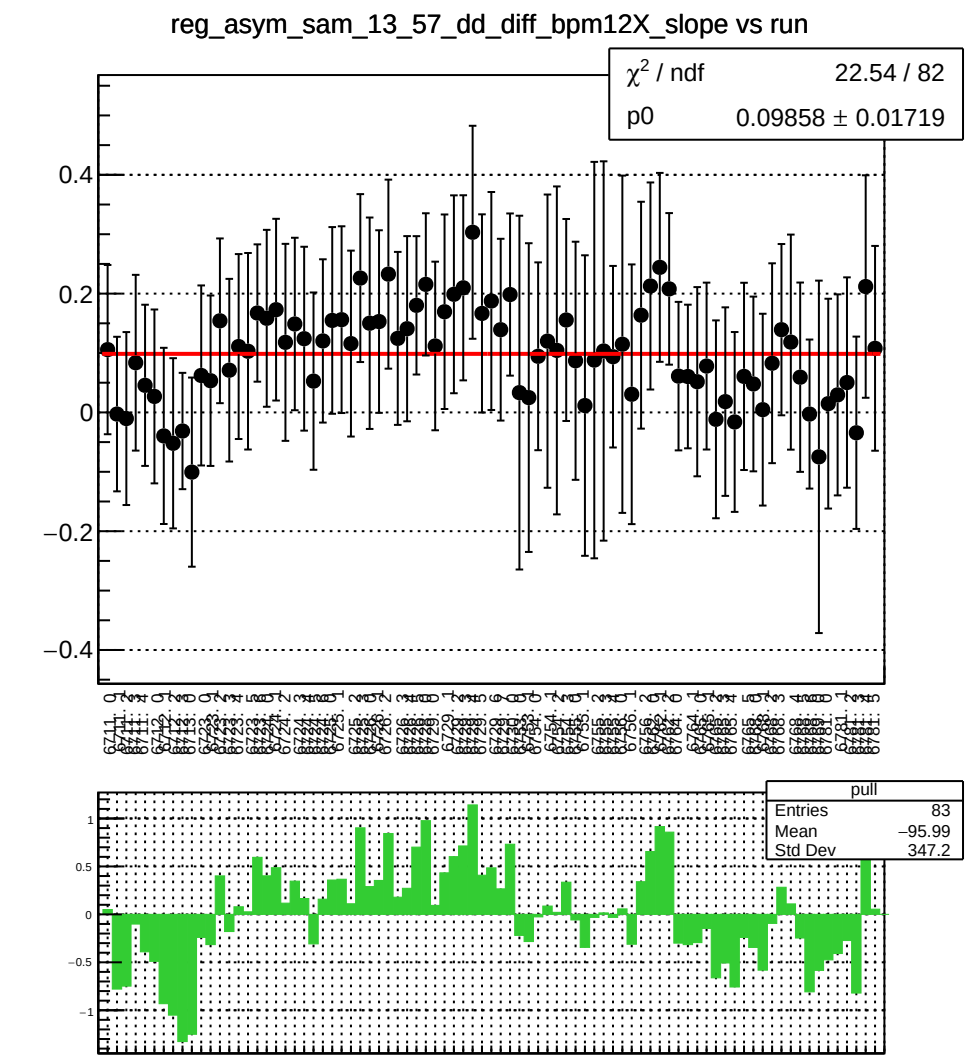

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 79.28 / 82
p0 −7.685 ± 0.3833
pull
Entries 83
Mean 255.4
Std Dev 210.1

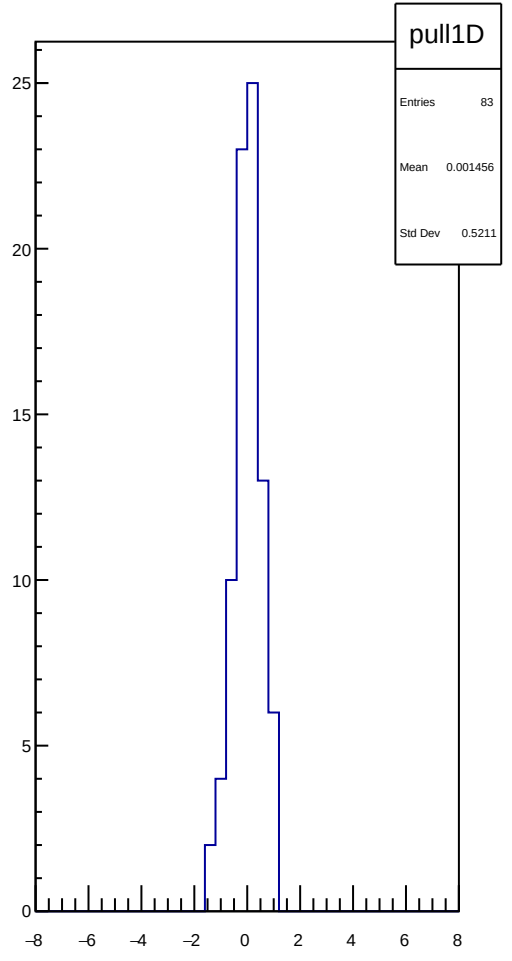

pull1D
Entries 83
Mean −0.09596
Std Dev 0.9726

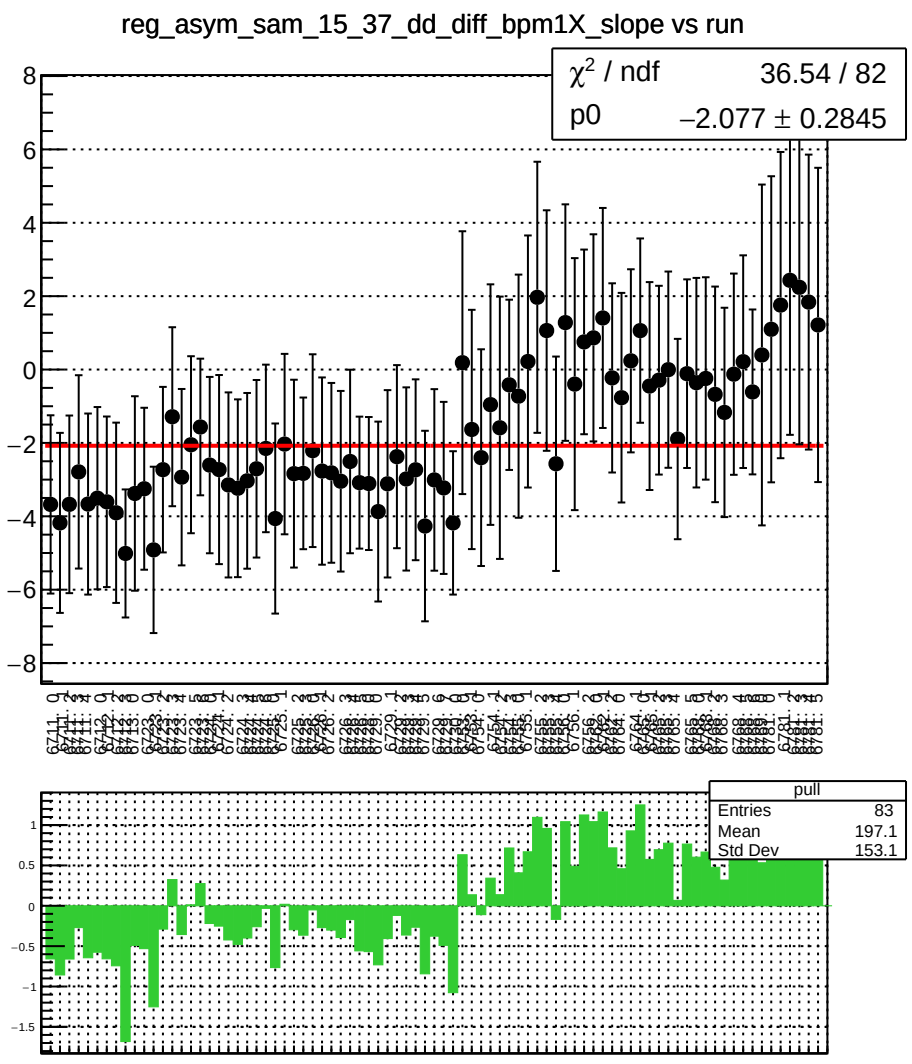

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.13 / 82
p0 −30.22 ± 0.2466
pull
Entries 83
Mean −238.8
Std Dev 280.3
pull1D
Entries 83
Mean 0.02098
Std Dev 0.4403

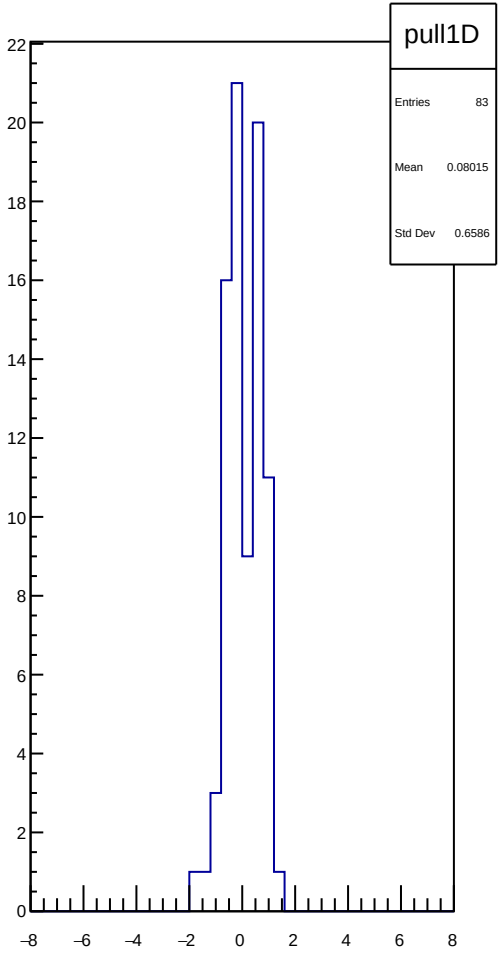

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.24 / 82
p0 −5.447 ± 0.3681
pull
Entries 83
Mean 348.2
Std Dev 311
pull1D
Entries 83
Mean 0.02527
Std Dev 0.7213

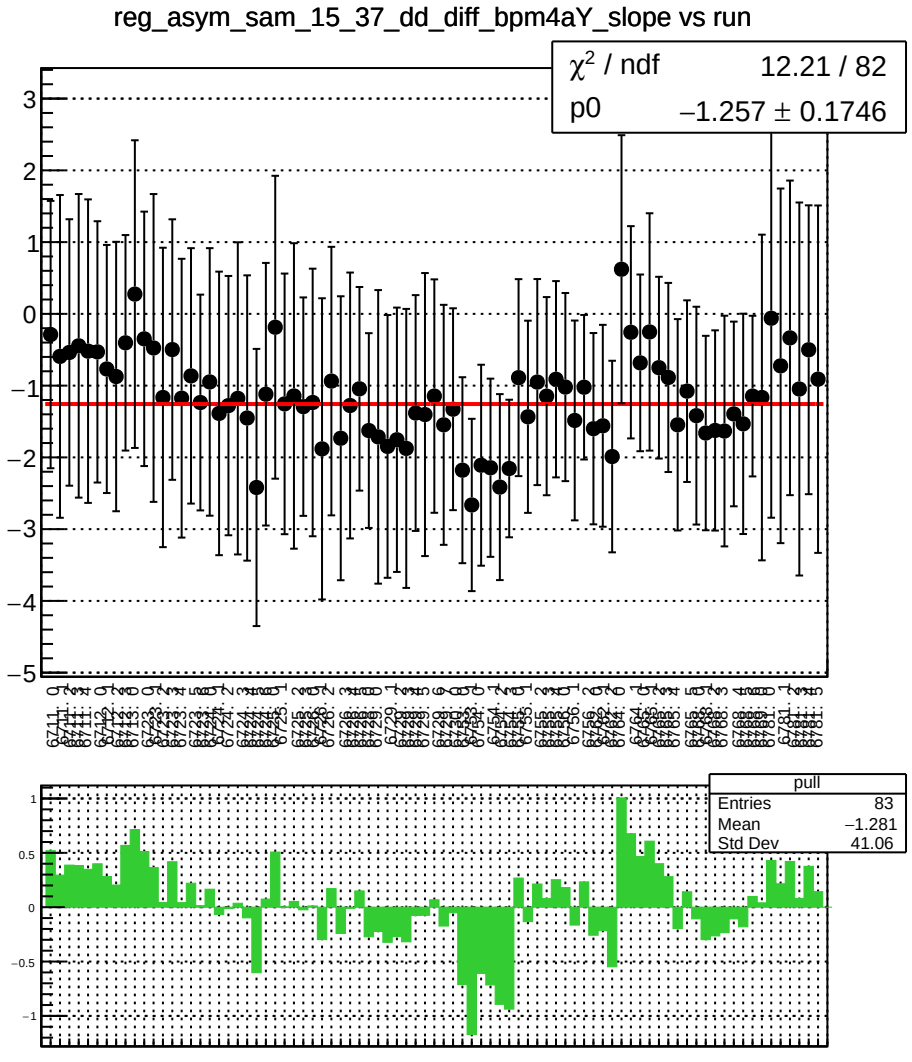

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.49 / 82
p0 −7.878 ± 0.3045
pull
Entries 83
Mean −639.7
Std Dev 681.9
pull1D
Entries 83
Mean −0.01949
Std Dev 0.6718

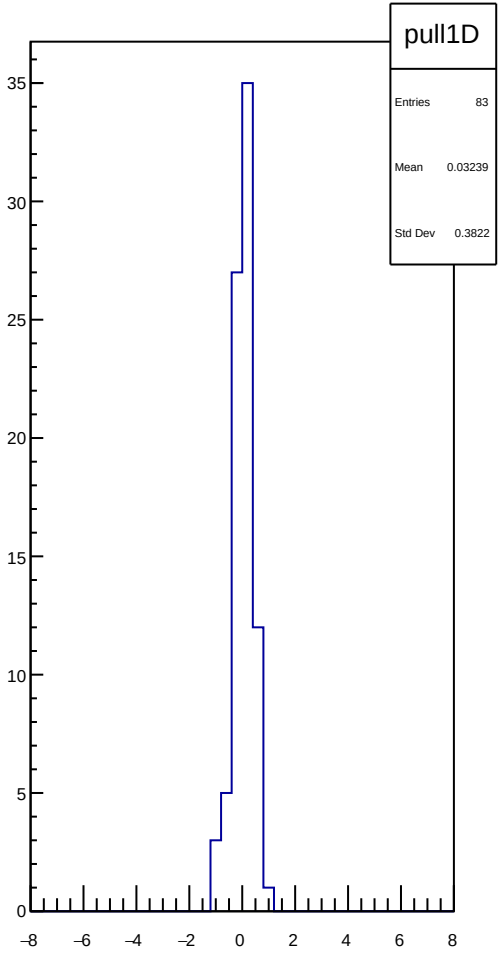

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 22.54 / 82
p0 0.09858 ± 0.01719
0.4
0.2
0
−0.2
−0.4
pull
Entries 83
Mean −95.99
Std Dev 347.2
1
0.5
0
−0.5
−1

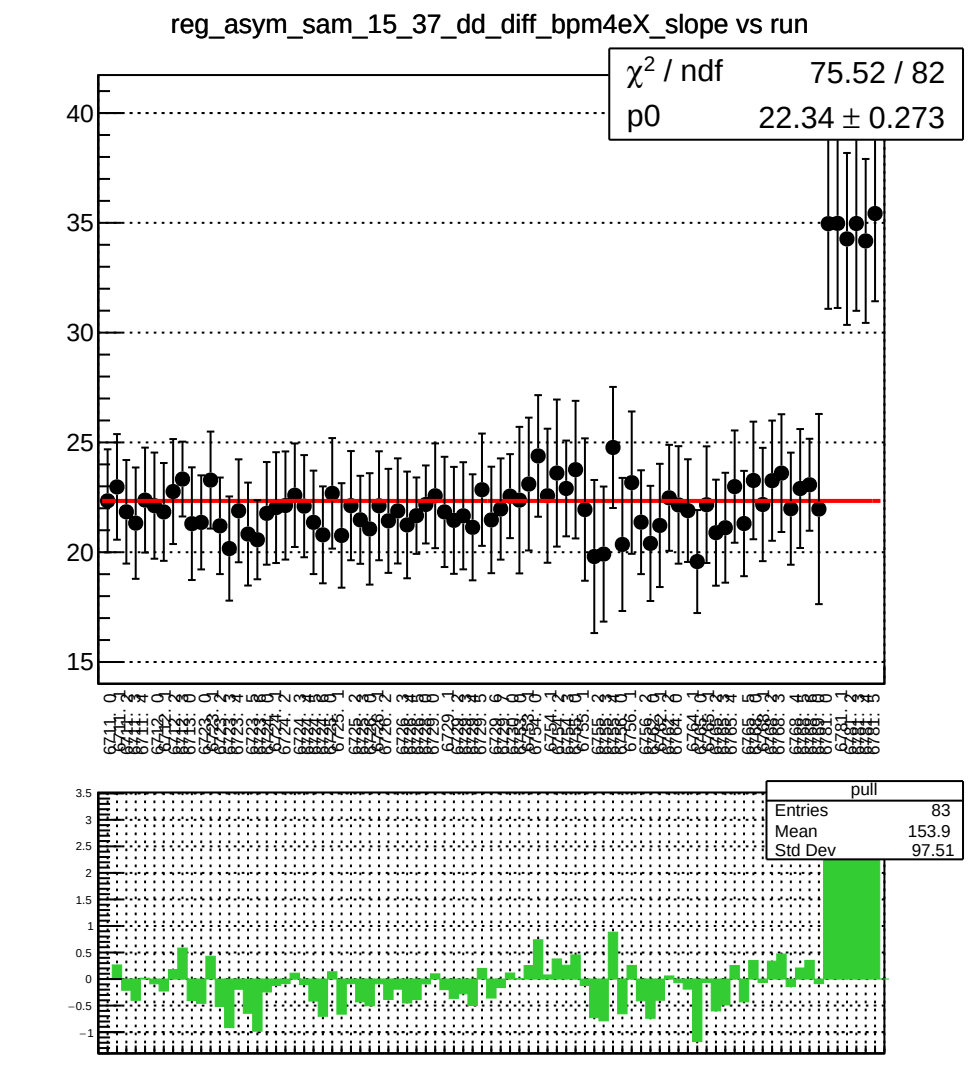

pull1D
Entries 83
Mean 0.001456
Std Dev 0.5211
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

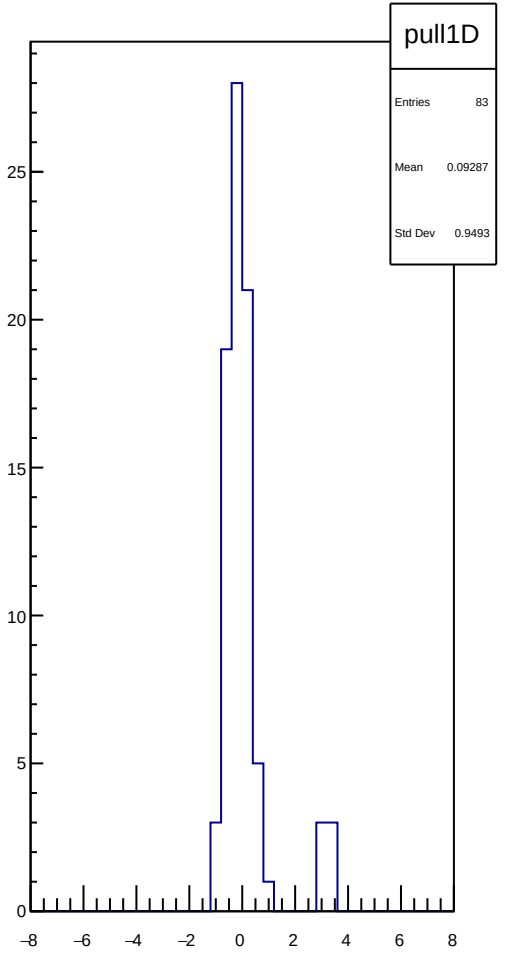

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 36.54 / 82
p0 −2.077 ± 0.2845
pull
Entries 83
Mean 197.1
Std Dev 153.1

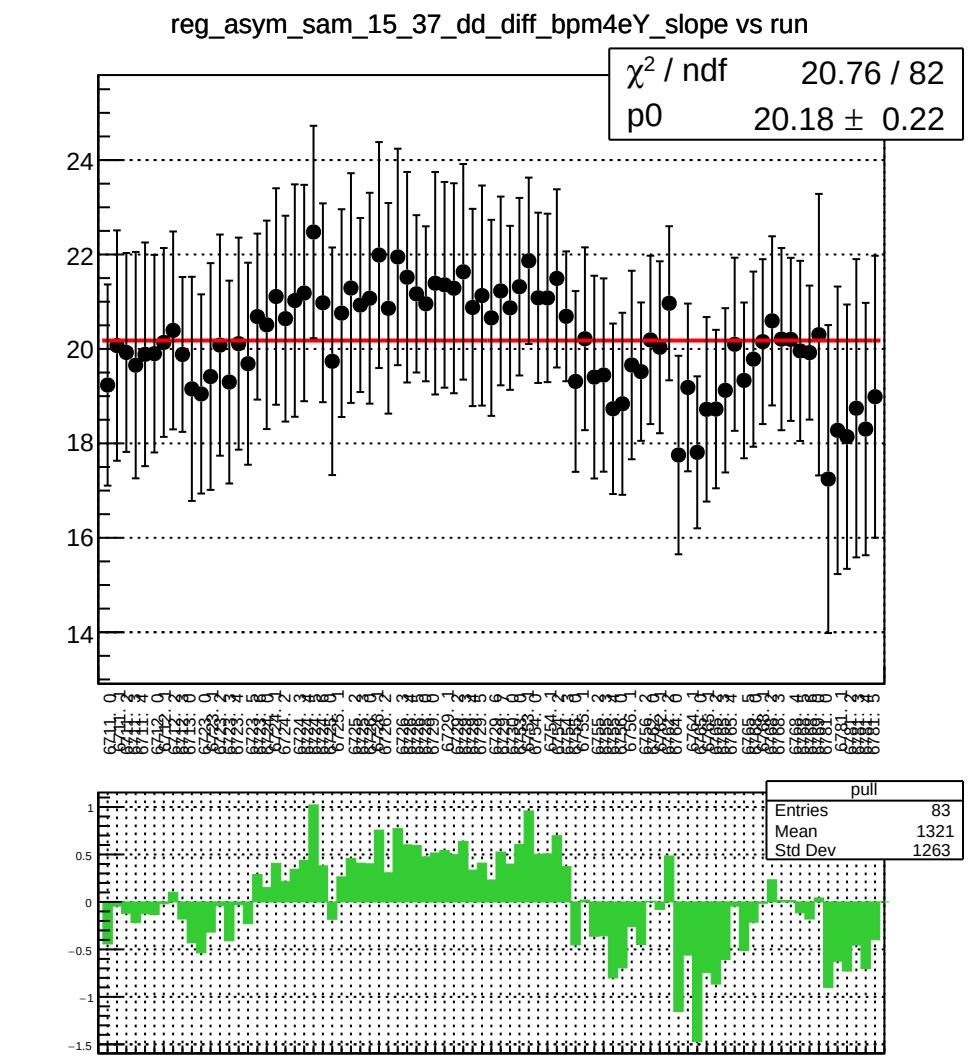

pull1D
Entries 83
Mean 0.08015
Std Dev 0.6586

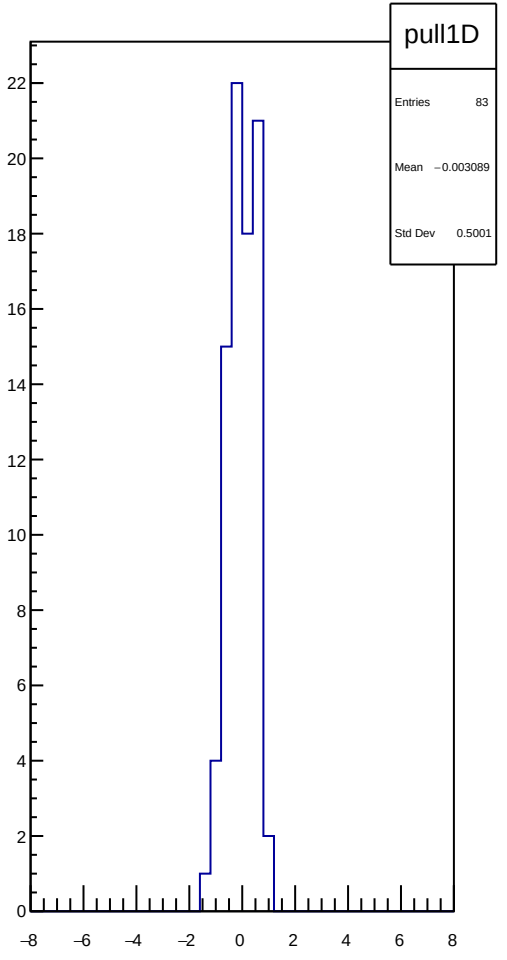

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.21 / 82
p0 −1.257 ± 0.1746
pull
Entries 83
Mean −1.281
Std Dev 41.06

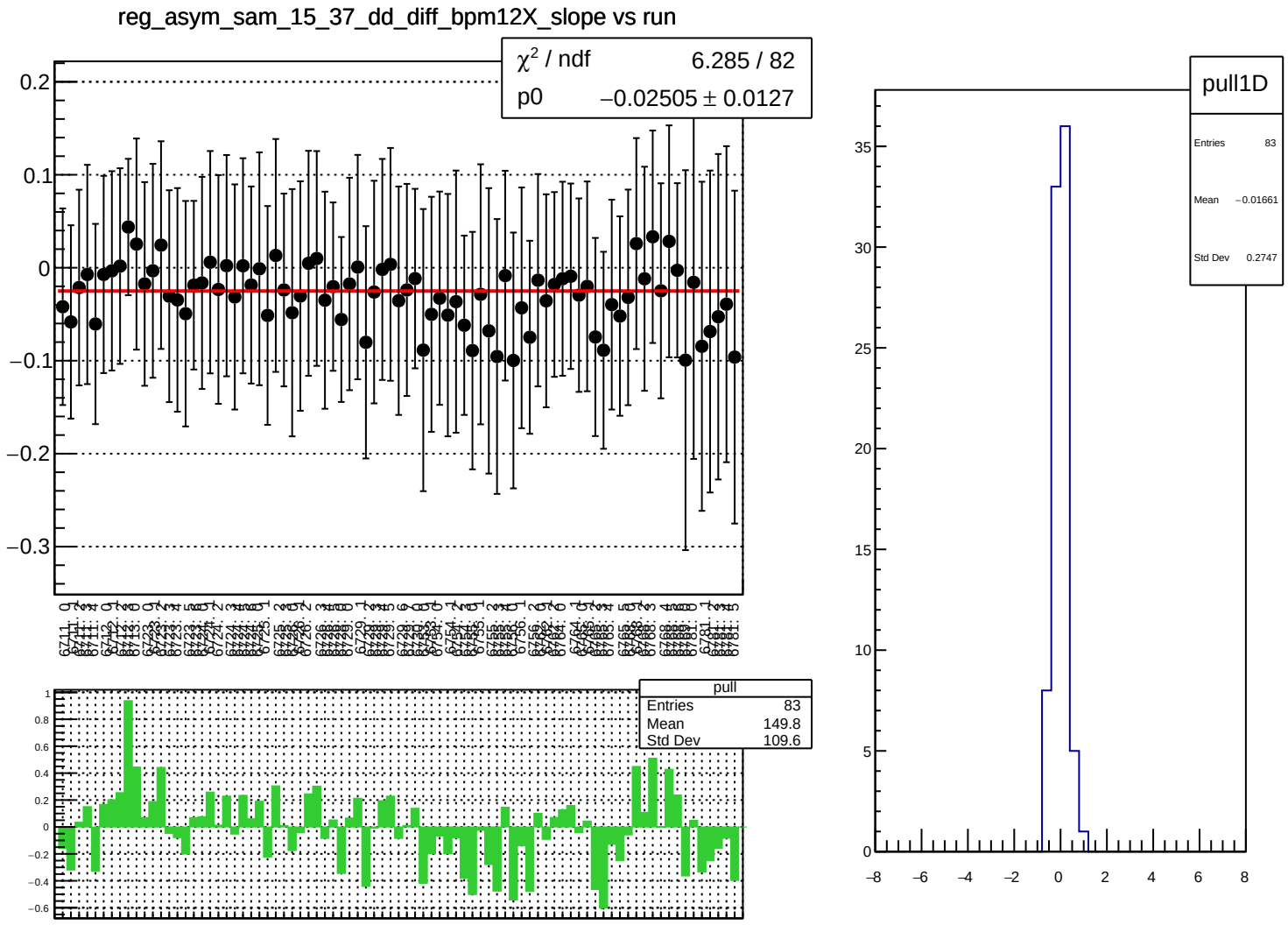

pull1D
Entries 83
Mean 0.03239
Std Dev 0.3822

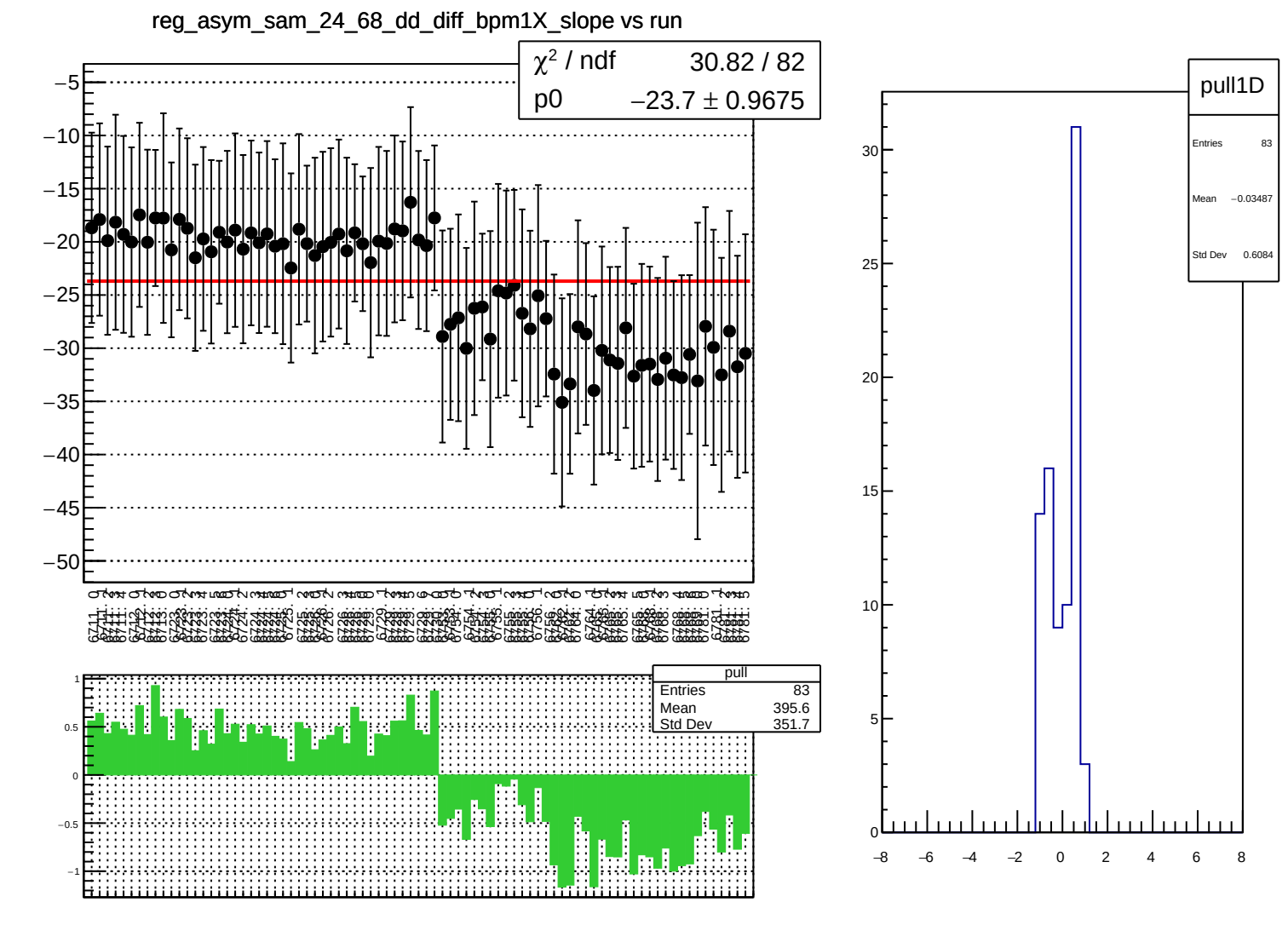

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.52 / 82
p0 22.34 ± 0.273
pull
Entries 83
Mean 153.9
Std Dev 97.51

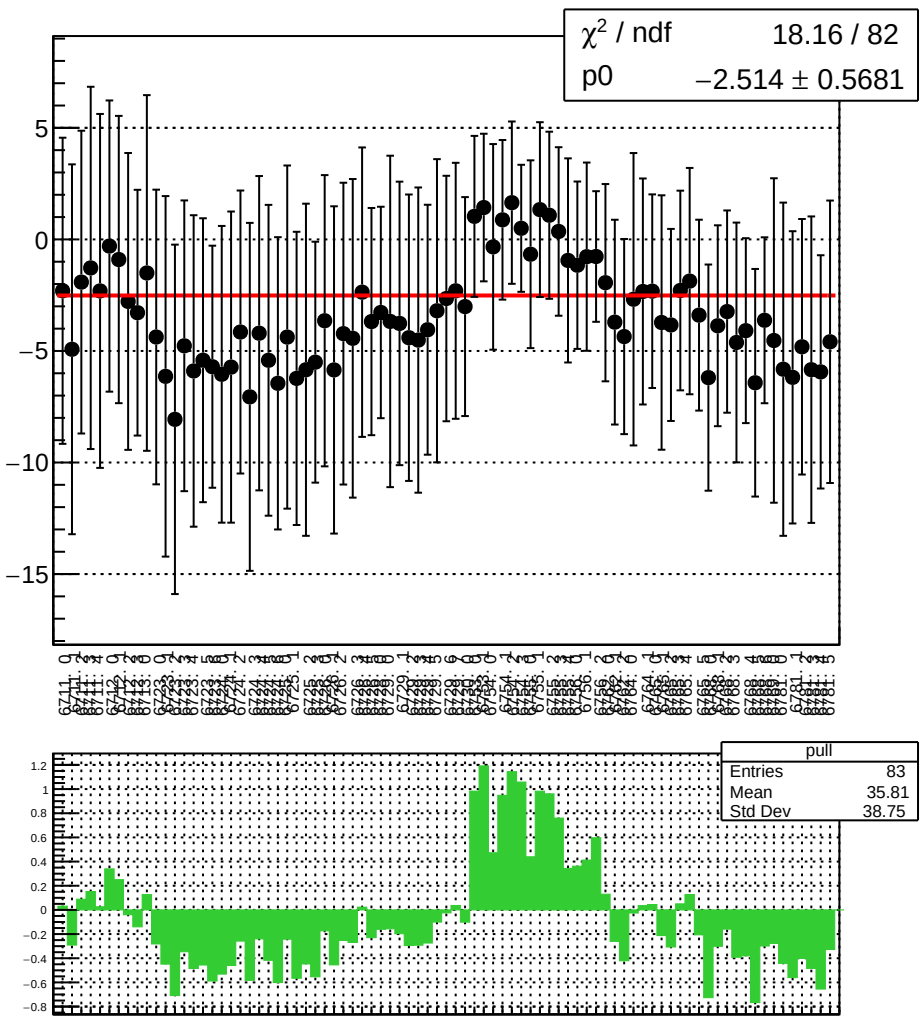

pull1D
Entries 83
Mean 0.09287
Std Dev 0.9493

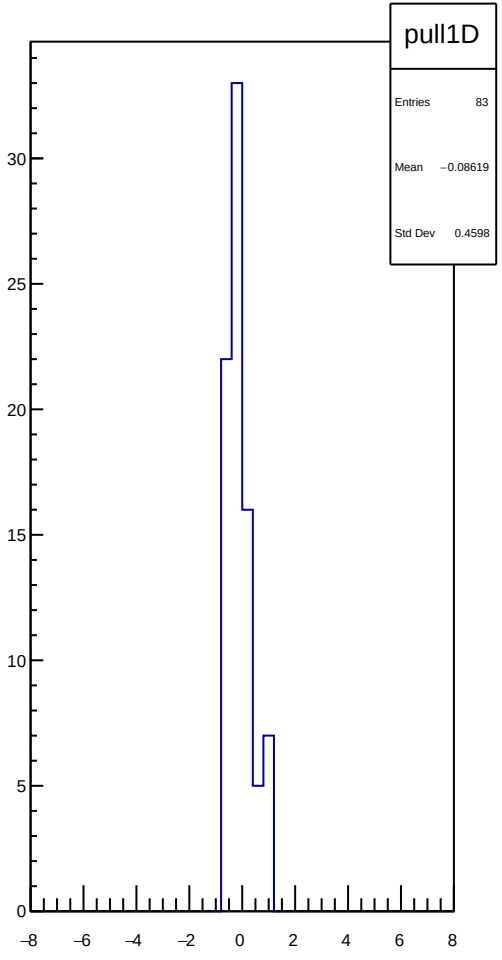

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.76 / 82
p0 20.18 ± 0.22
pull
Entries 83
Mean 1321
Std Dev 1263

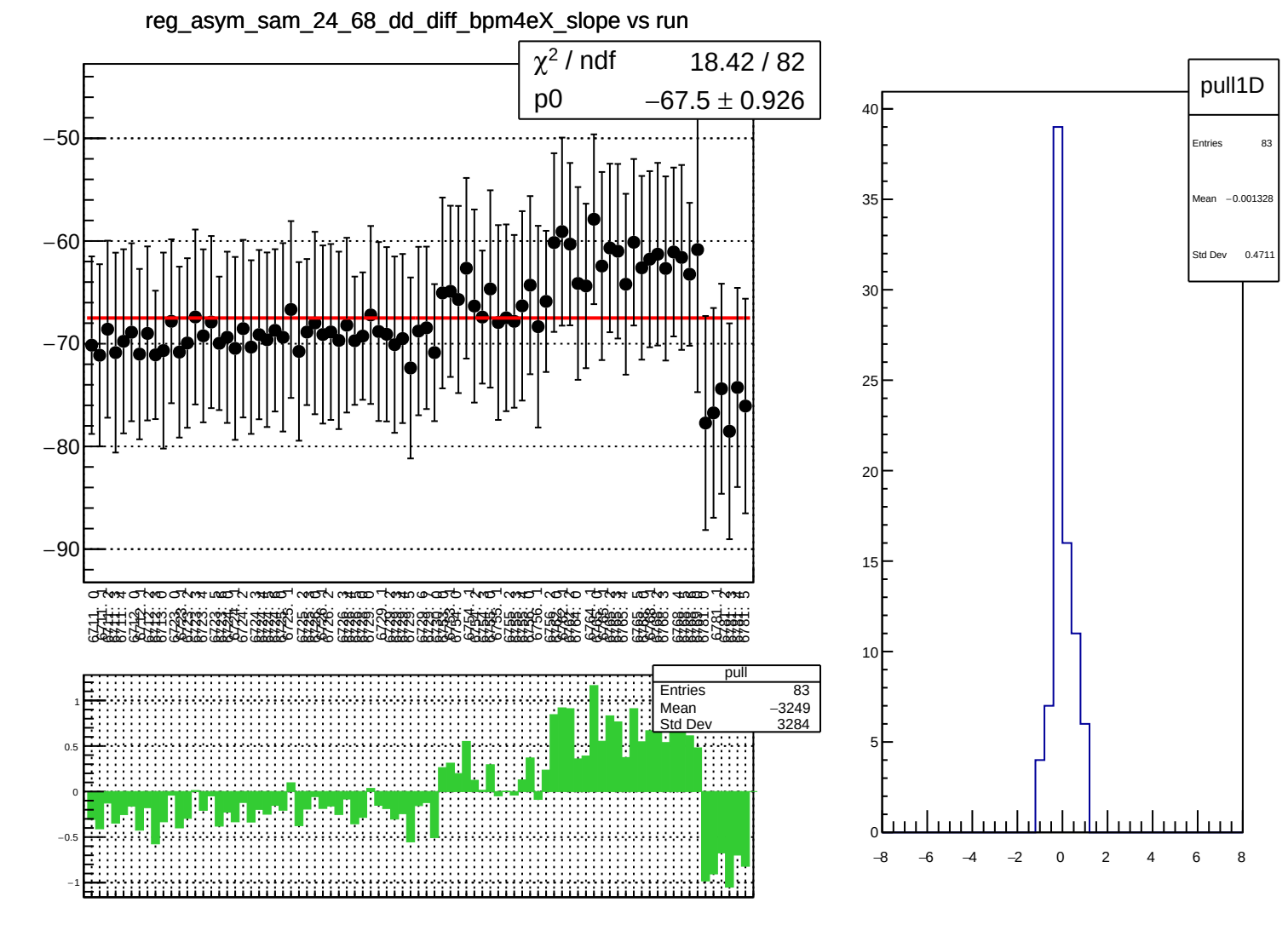

pull1D
Entries 83
Mean −0.003089
Std Dev 0.5001

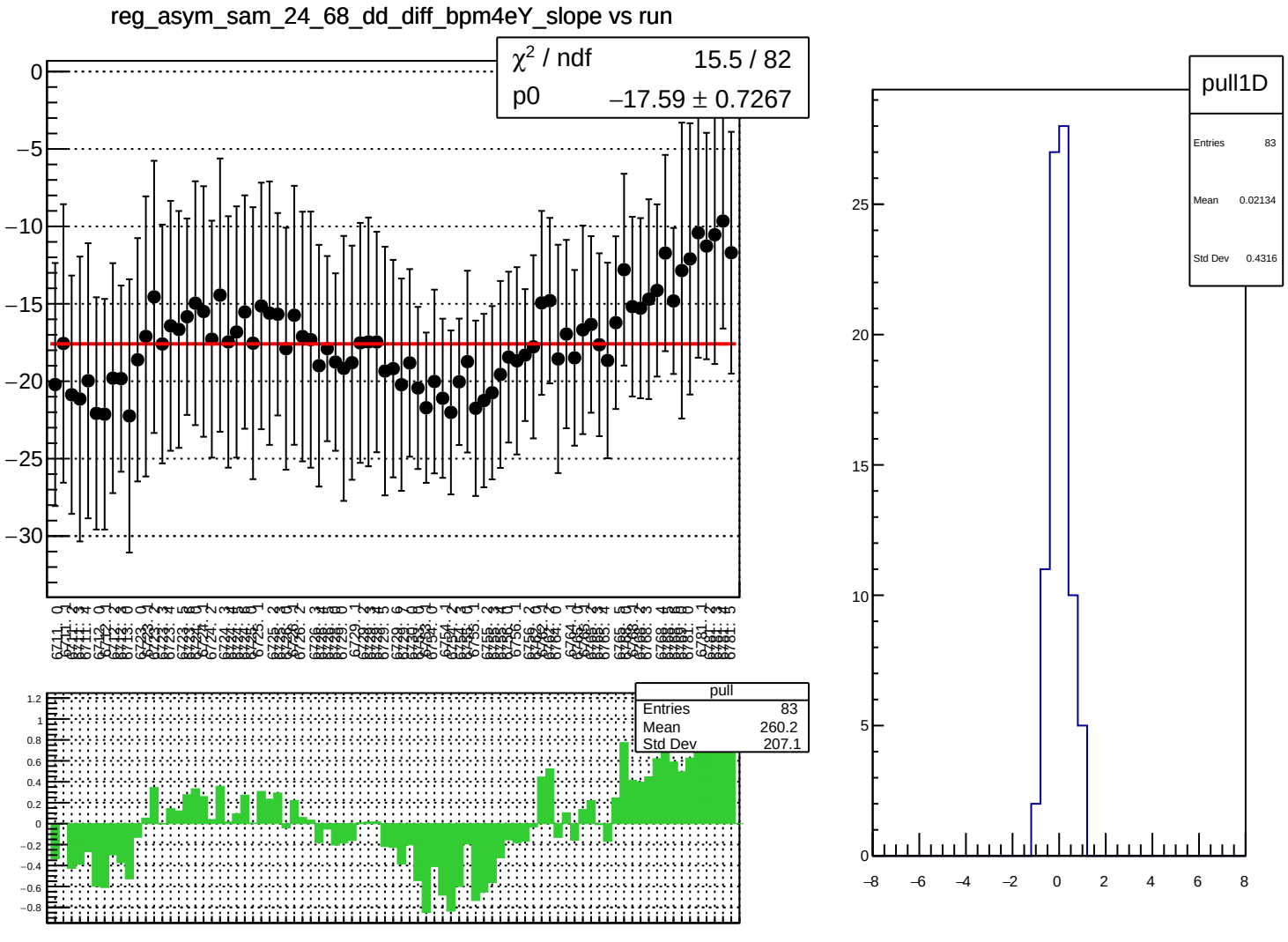

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 6.285 / 82
p0 −0.02505 ± 0.0127
pull
Entries 83
Mean 149.8
Std Dev 109.6
pull1D
Entries 83
Mean −0.01661
Std Dev 0.2747

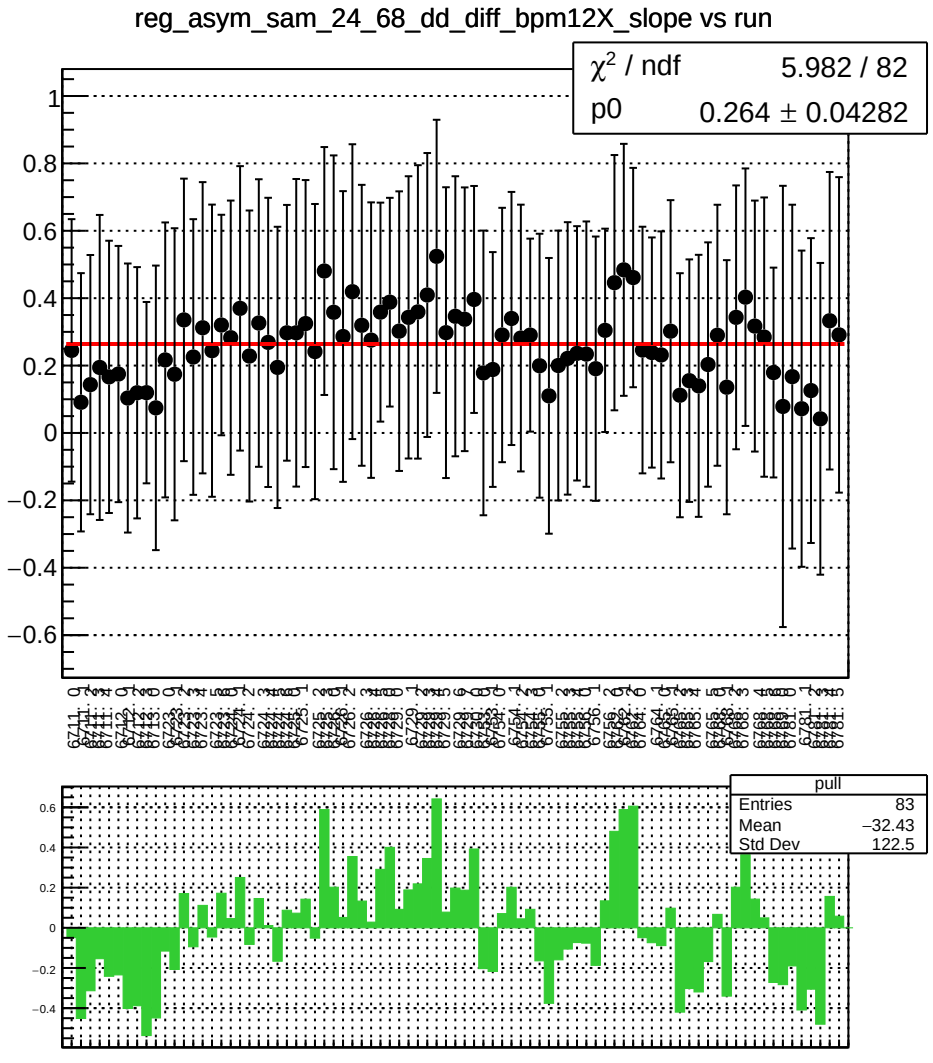

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 30.82 / 82
p0 −23.7 ± 0.9675
pull
Entries 83
Mean 395.6
Std Dev 351.7
pull1D
Entries 83
Mean −0.03487
Std Dev 0.6084

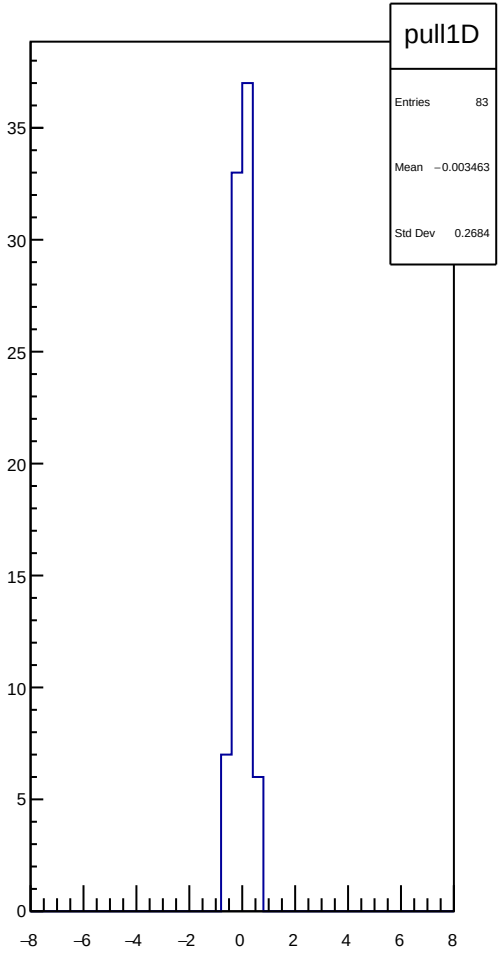

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.16 / 82
p0 −2.514 ± 0.5681
pull
Entries 83
Mean 35.81
Std Dev 38.75

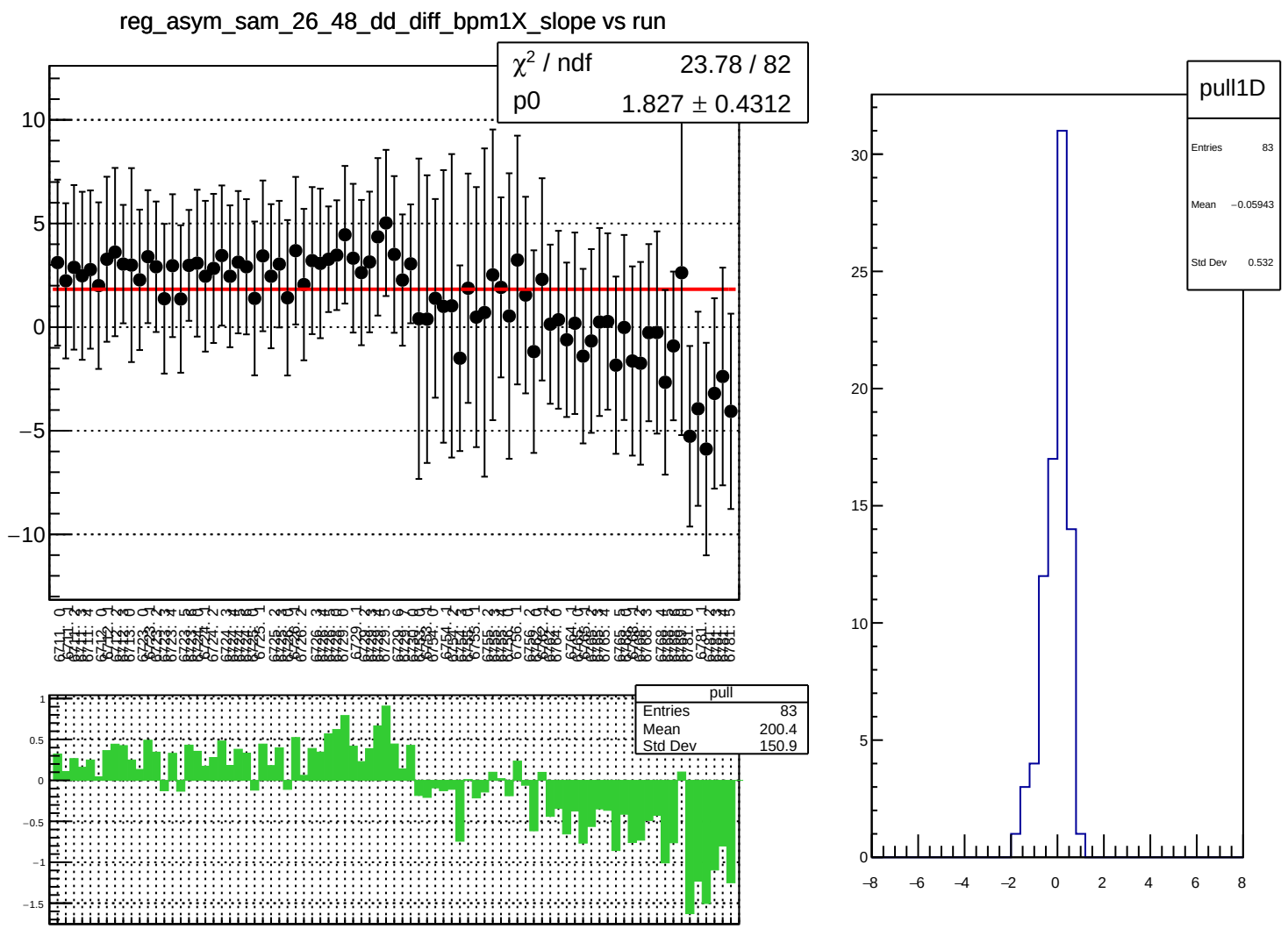

pull1D
Entries 83
Mean −0.08619
Std Dev 0.4598

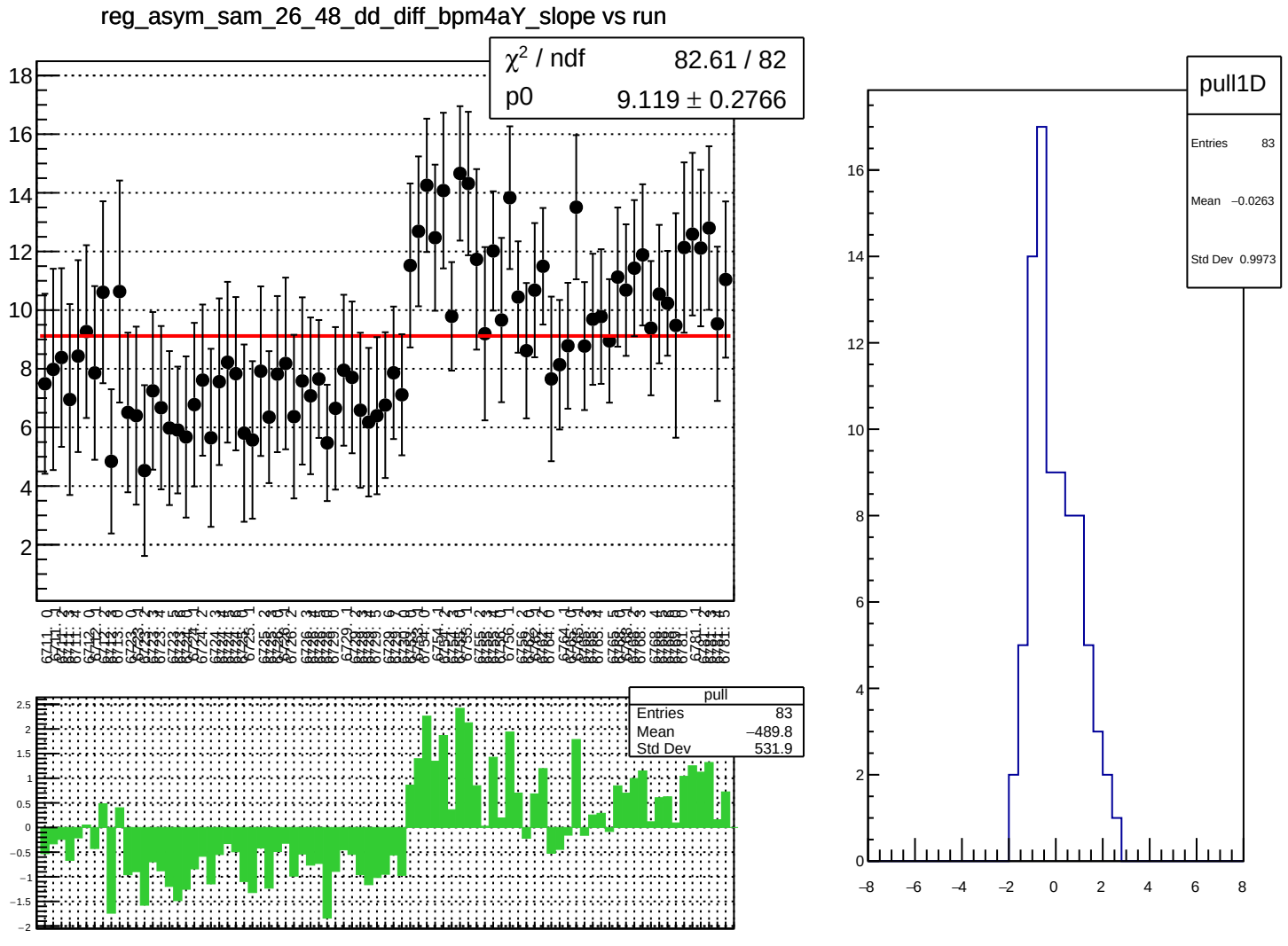

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.42 / 82
p0 −67.5 ± 0.926
−50
−60
−70
−80
−90
pull
Entries 83
Mean −3249
Std Dev 3284
1
0.5
0
−0.5
−1
pull1D
Entries 83
Mean −0.001328
Std Dev 0.4711
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

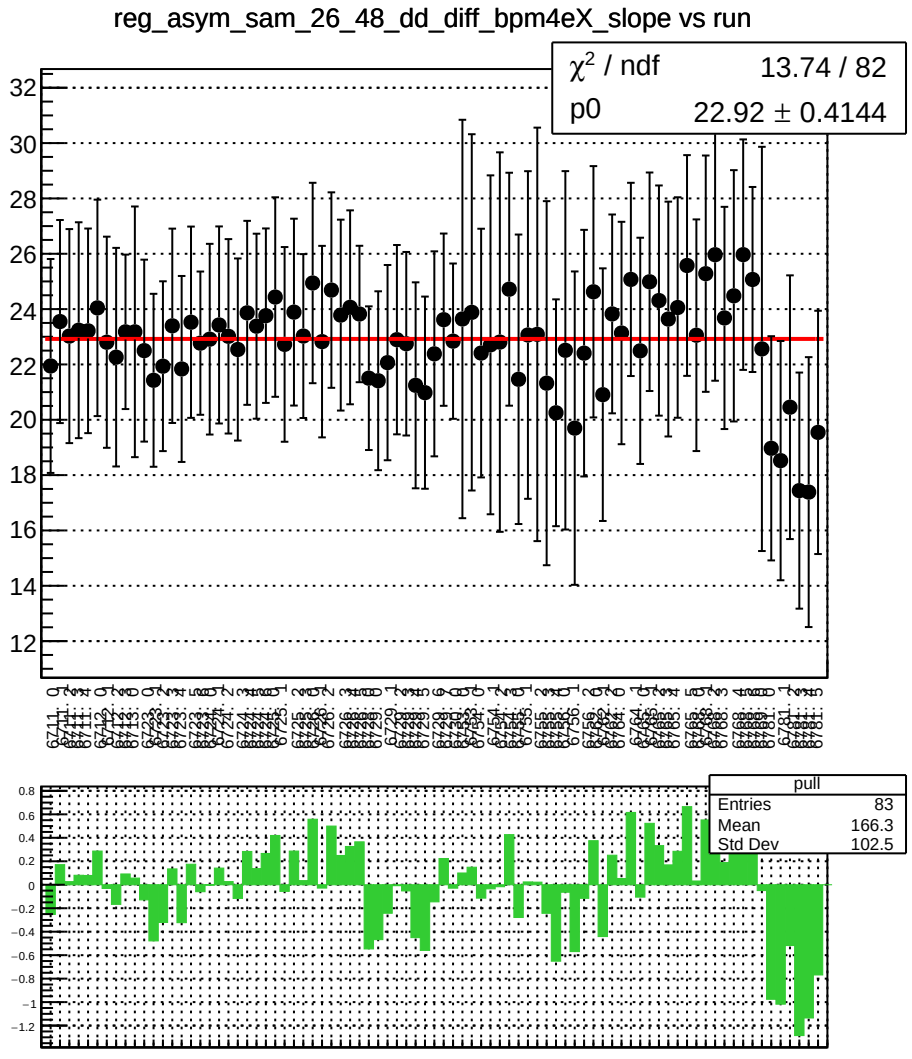

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.5 / 82
p0 −17.59 ± 0.7267
pull
Entries 83
Mean 260.2
Std Dev 207.1
pull1D
Entries 83
Mean 0.02134
Std Dev 0.4316

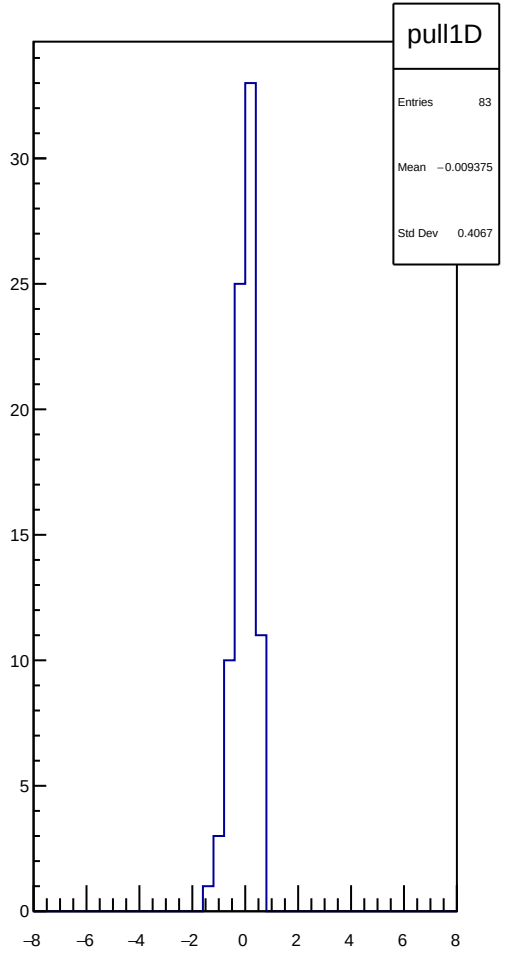

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 5.982 / 82
p0 0.264 ± 0.04282
pull
Entries 83
Mean −32.43
Std Dev 122.5

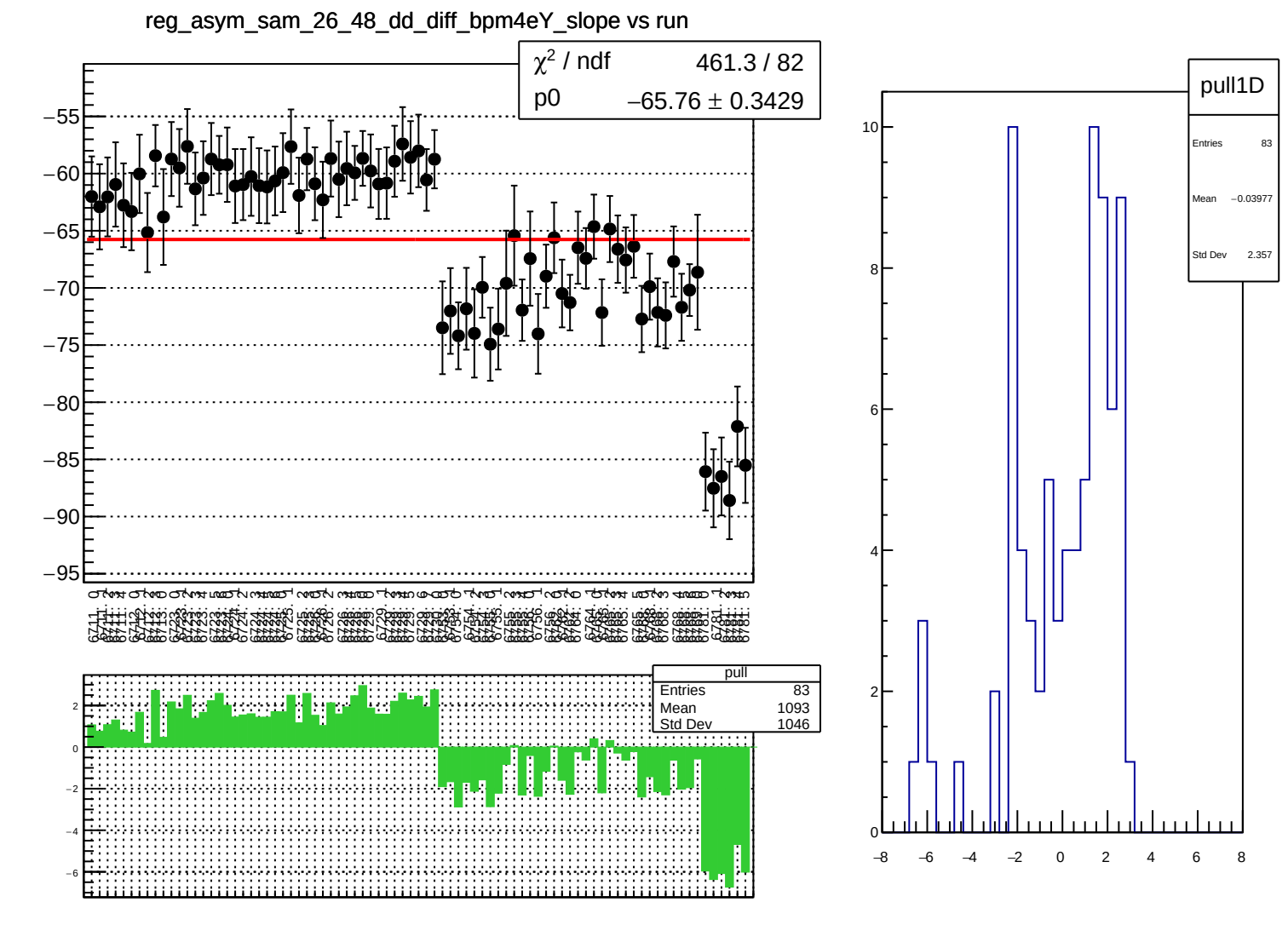

pull1D
Entries 83
Mean −0.003463
Std Dev 0.2684

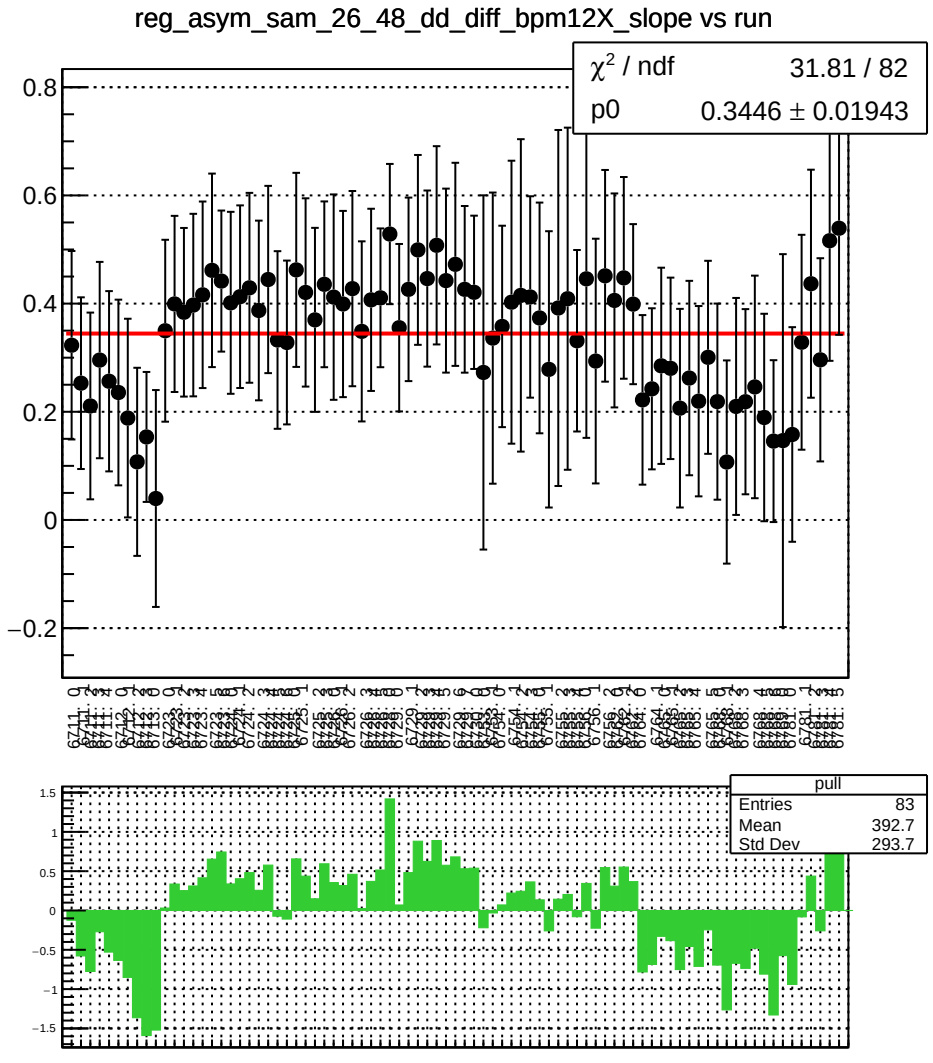

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 23.78 / 82
p0 1.827 ± 0.4312
pull
Entries 83
Mean 200.4
Std Dev 150.9
pull1D
Entries 83
Mean −0.05943
Std Dev 0.532

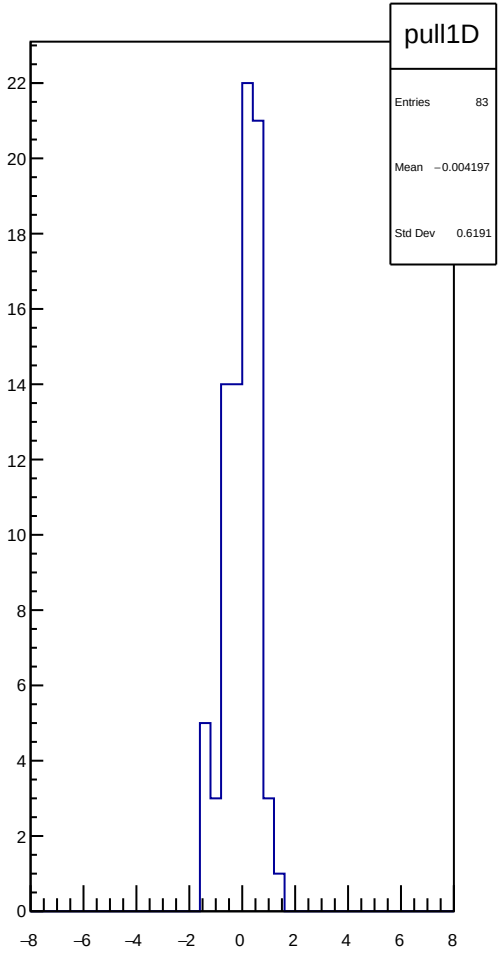

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.61 / 82
p0 9.119 ± 0.2766
pull
Entries 83
Mean −489.8
Std Dev 531.9
pull1D
Entries 83
Mean −0.0263
Std Dev 0.9973

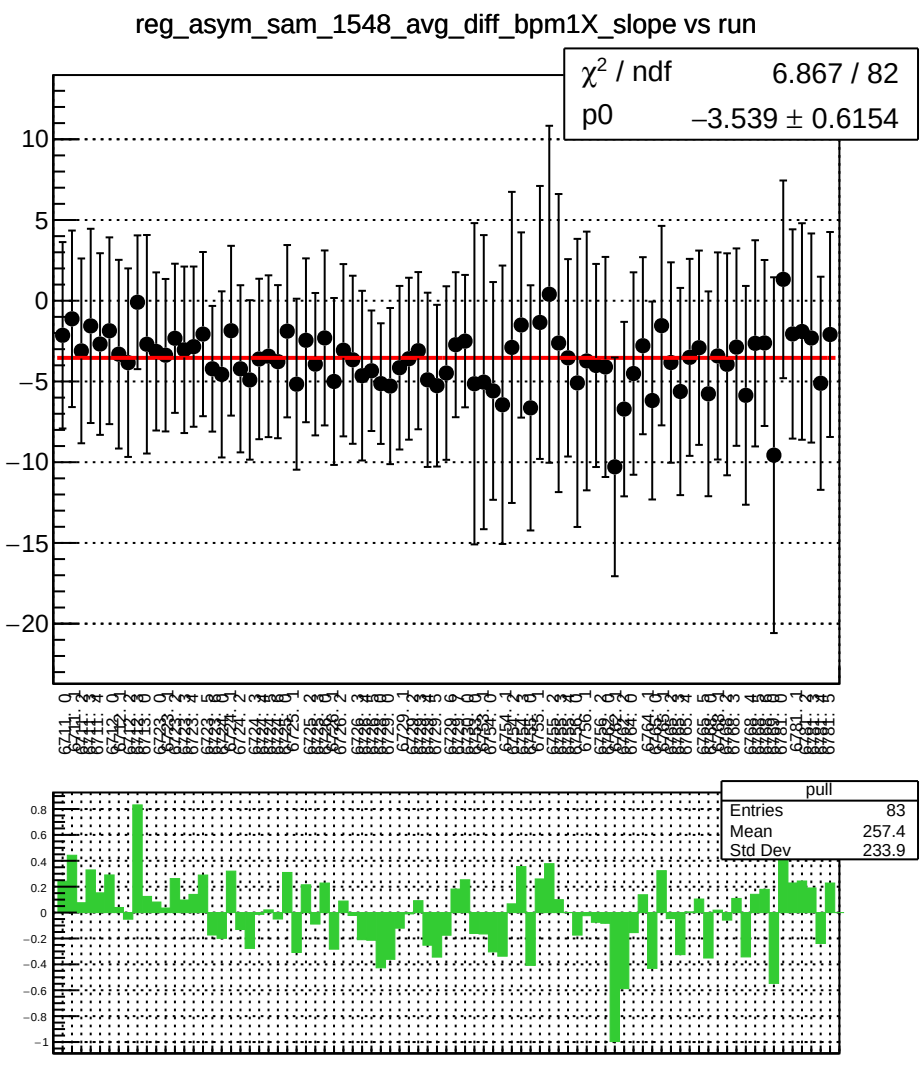

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.74 / 82
p0 22.92 ± 0.4144
pull
Entries 83
Mean 166.3
Std Dev 102.5

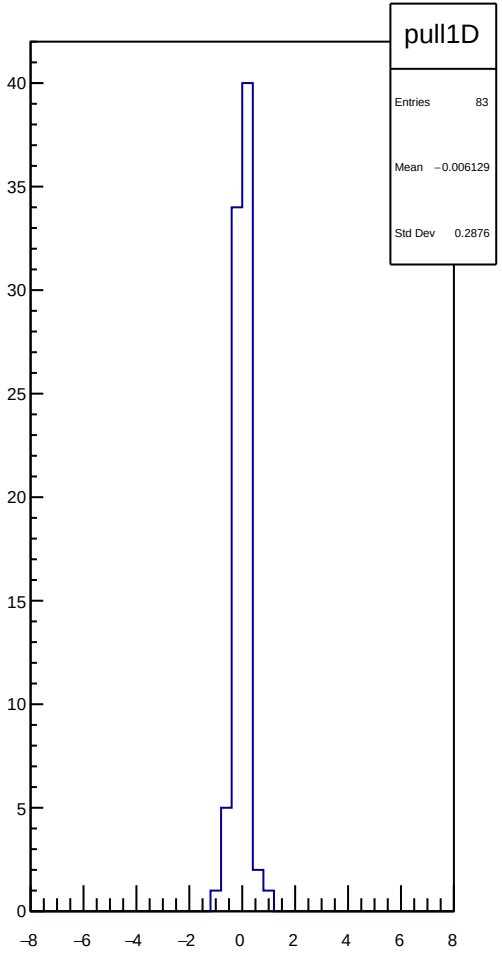

pull1D
Entries 83
Mean −0.009375
Std Dev 0.4067

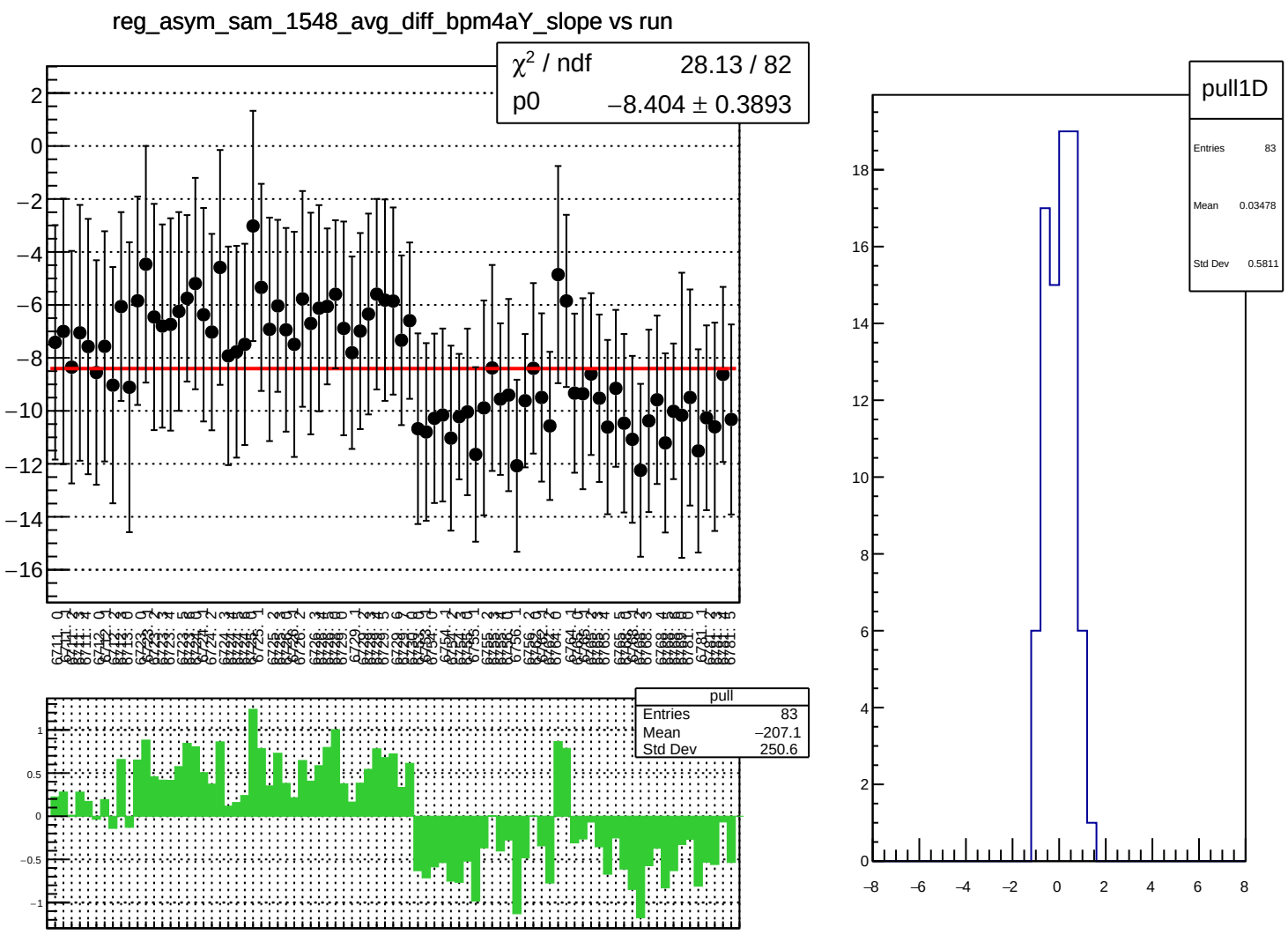

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 461.3 / 82
p0 −65.76 ± 0.3429
pull
Entries 83
Mean 1093
Std Dev 1046
pull1D
Entries 83
Mean −0.03977
Std Dev 2.357

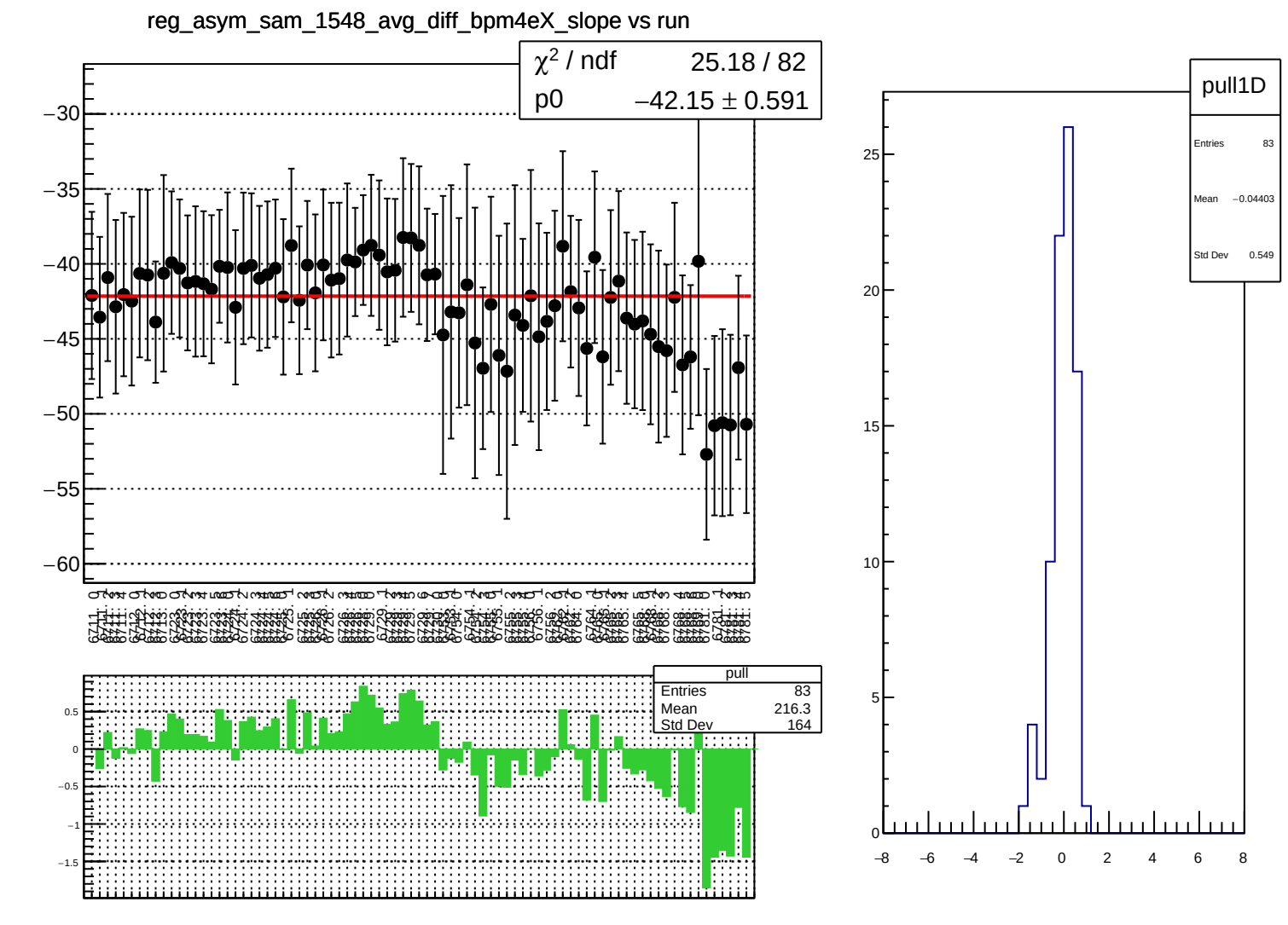

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 31.81 / 82
p0 0.3446 ± 0.01943
pull
Entries 83
Mean 392.7
Std Dev 293.7

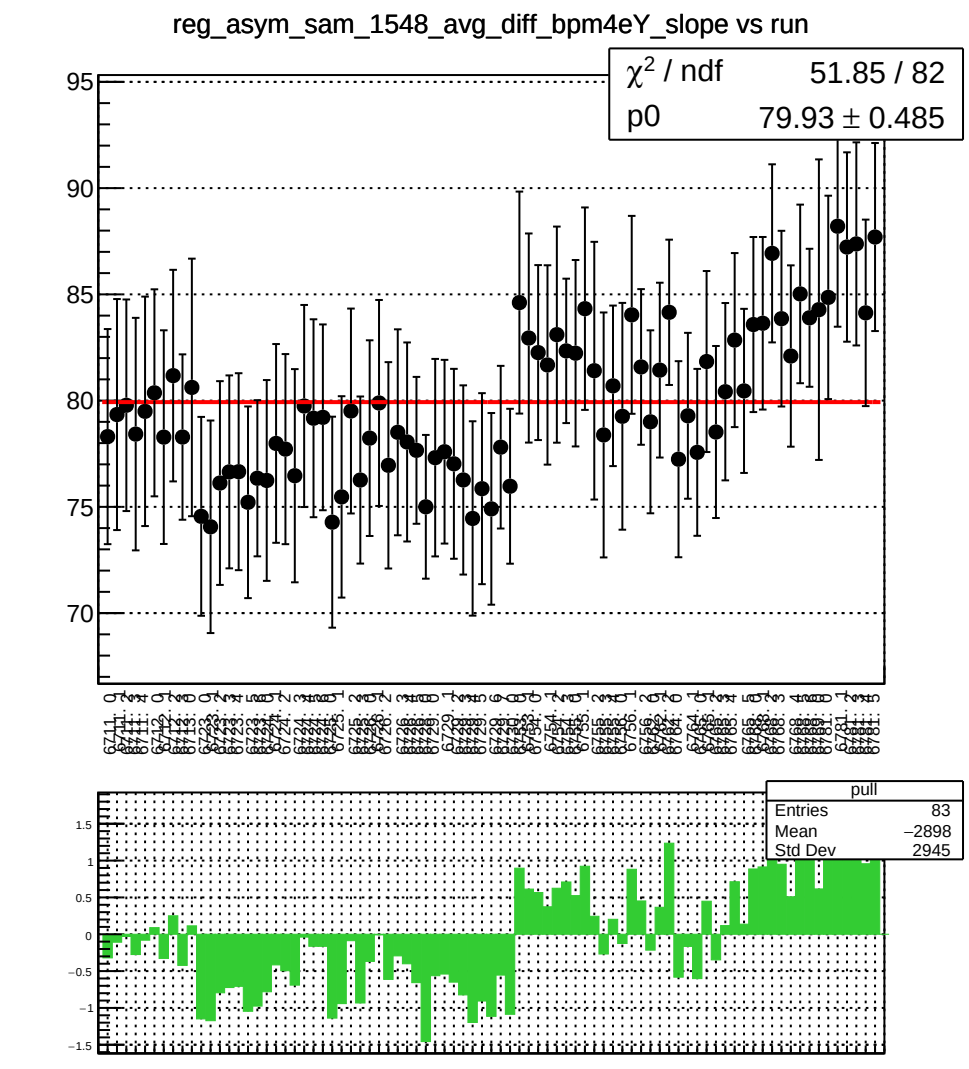

pull1D
Entries 83
Mean −0.004197
Std Dev 0.6191

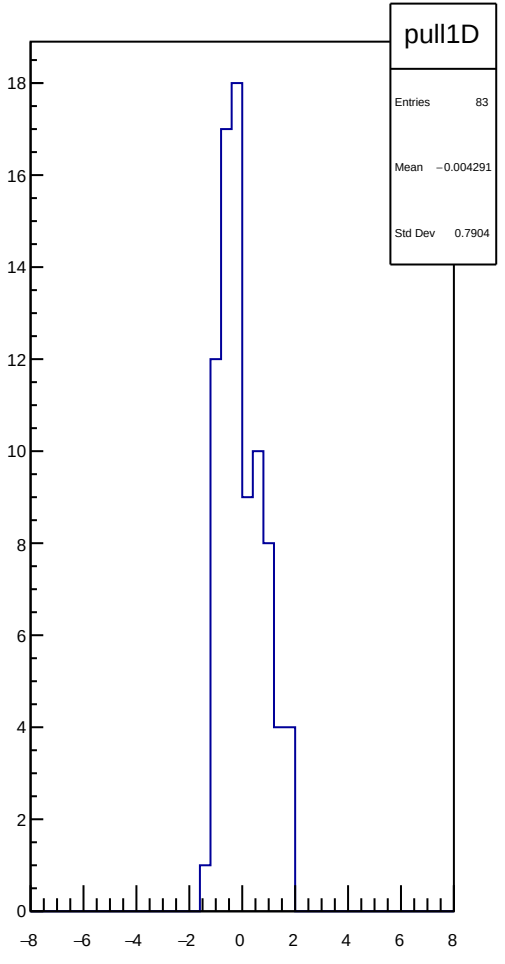

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 6.867 / 82
p0 −3.539 ± 0.6154
pull
Entries 83
Mean 257.4
Std Dev 233.9

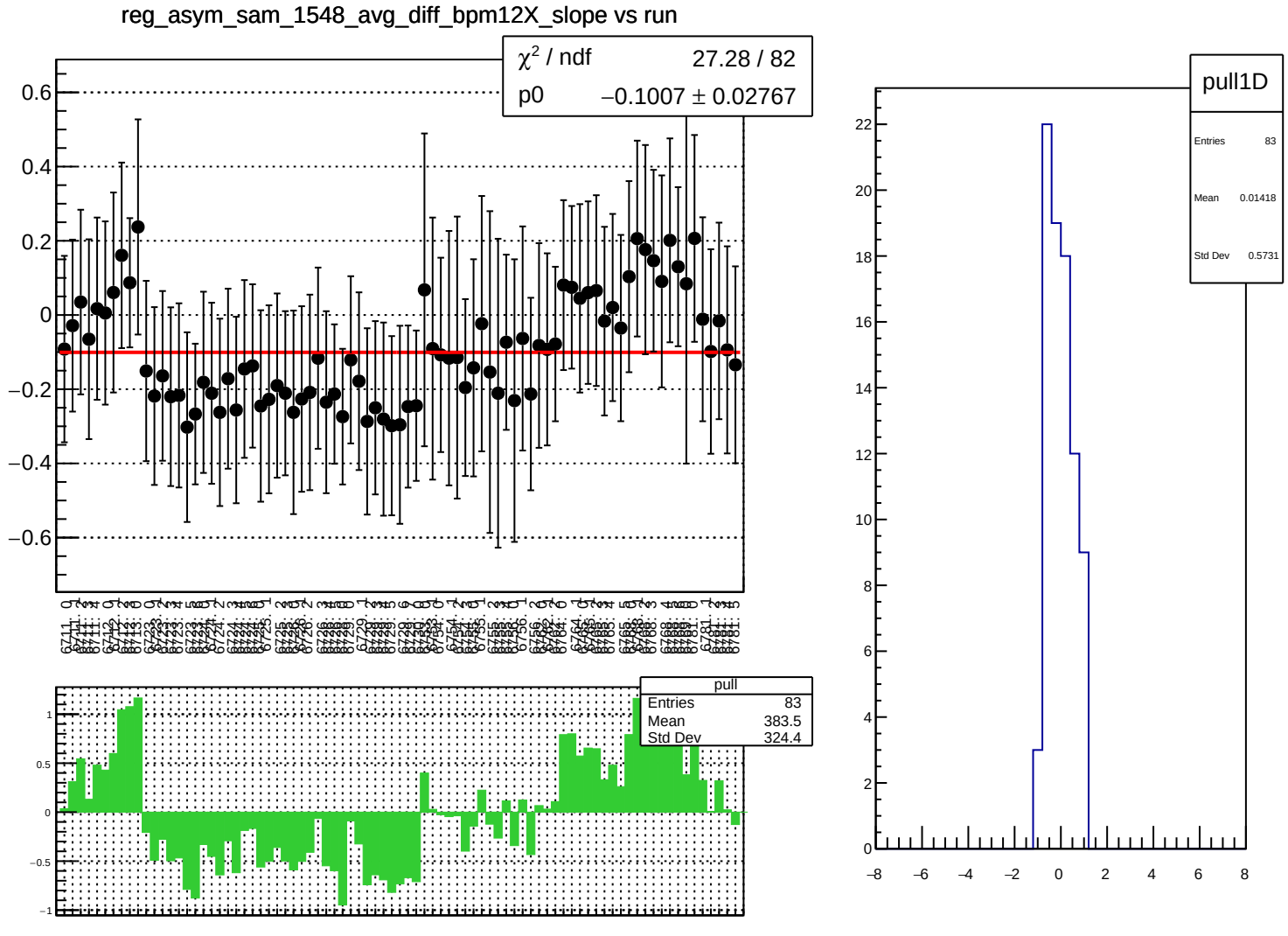

pull1D
Entries 83
Mean −0.006129
Std Dev 0.2876

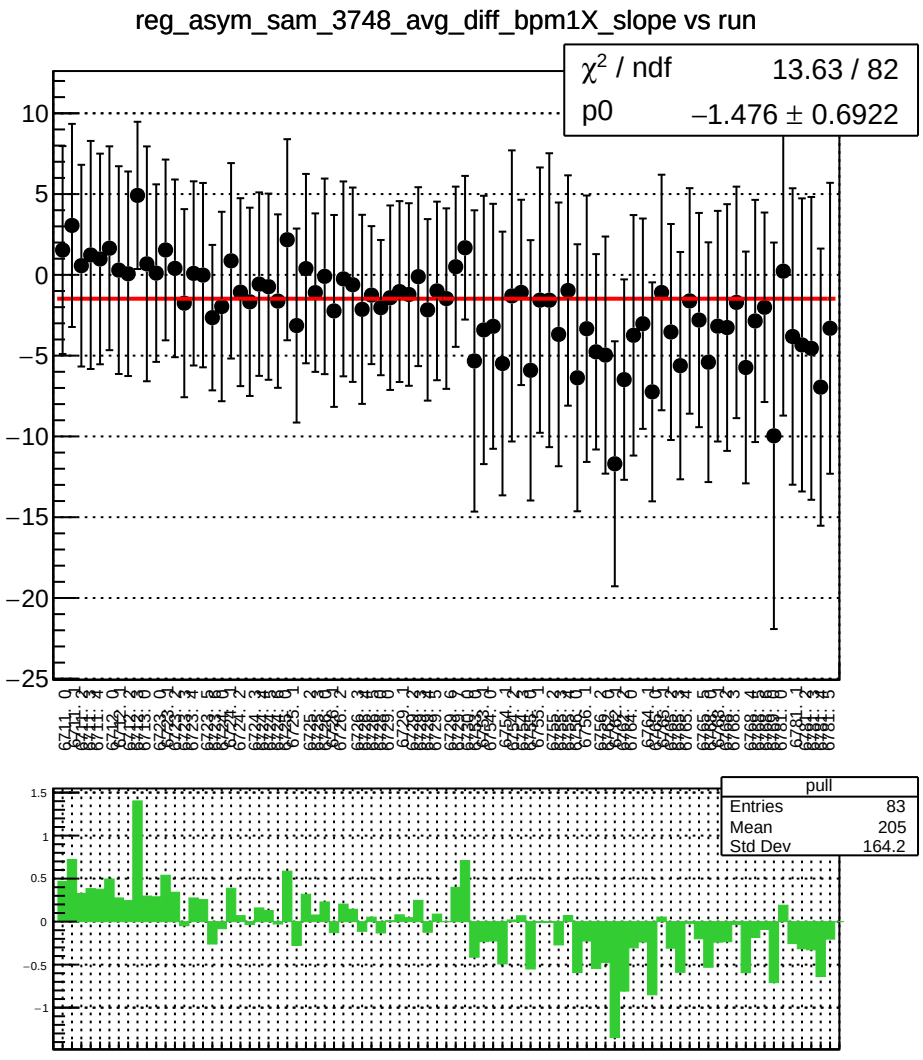

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.13 / 82
p0 −8.404 ± 0.3893
pull
Entries 83
Mean −207.1
Std Dev 250.6
pull1D
Entries 83
Mean 0.03478
Std Dev 0.5811

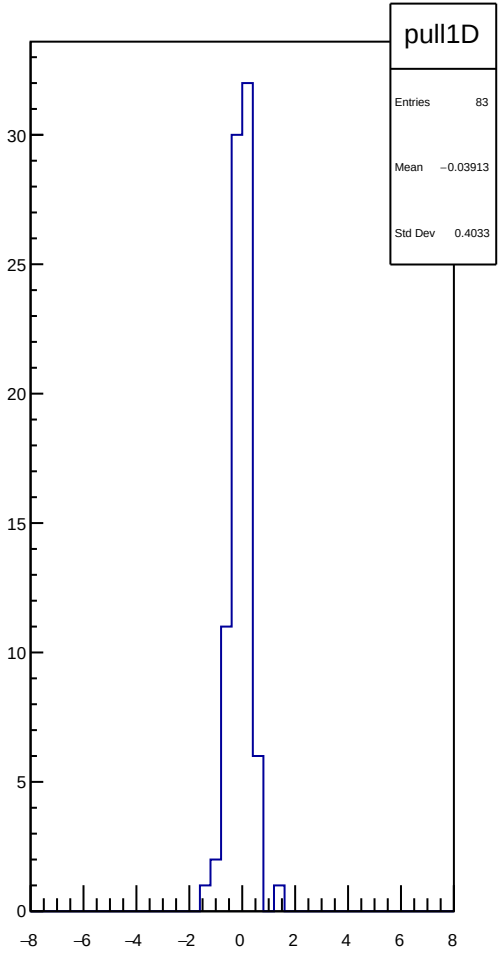

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.18 / 82
p0 −42.15 ± 0.591
pull
Entries 83
Mean 216.3
Std Dev 164
pull1D
Entries 83
Mean −0.04403
Std Dev 0.549

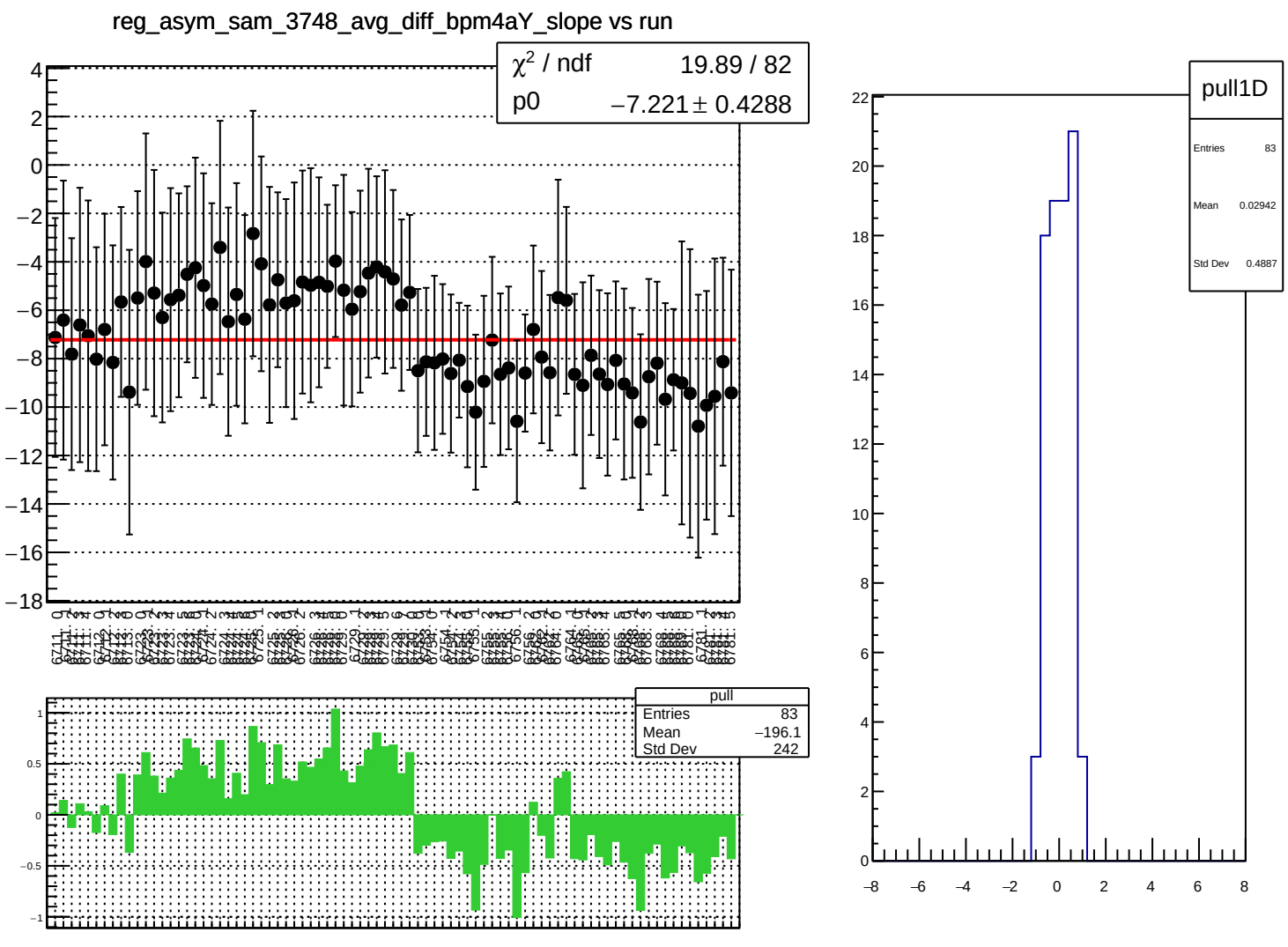

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.85 / 82
p0 79.93 ± 0.485
pull
Entries 83
Mean −2898
Std Dev 2945

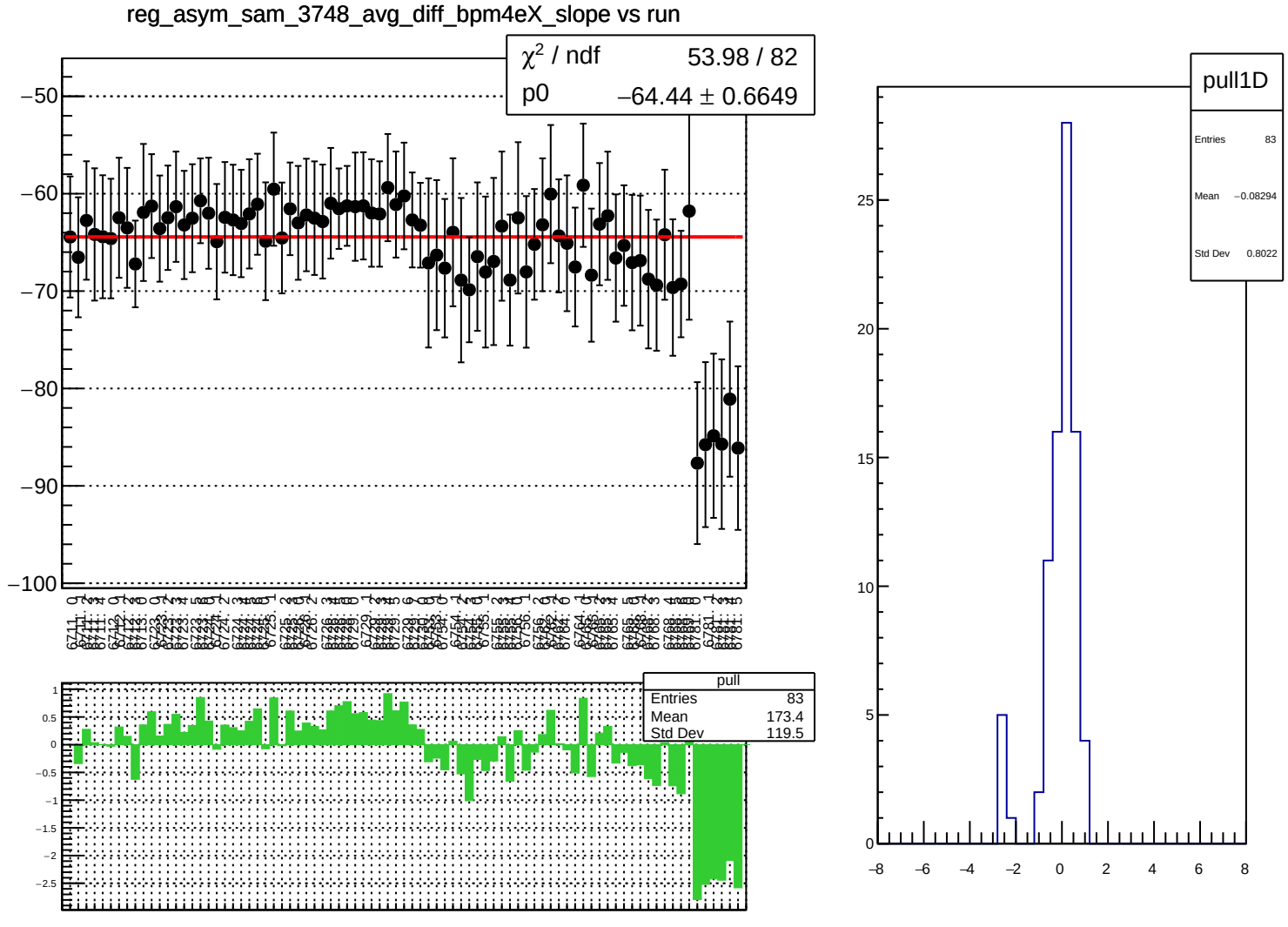

pull1D
Entries 83
Mean −0.004291
Std Dev 0.7904

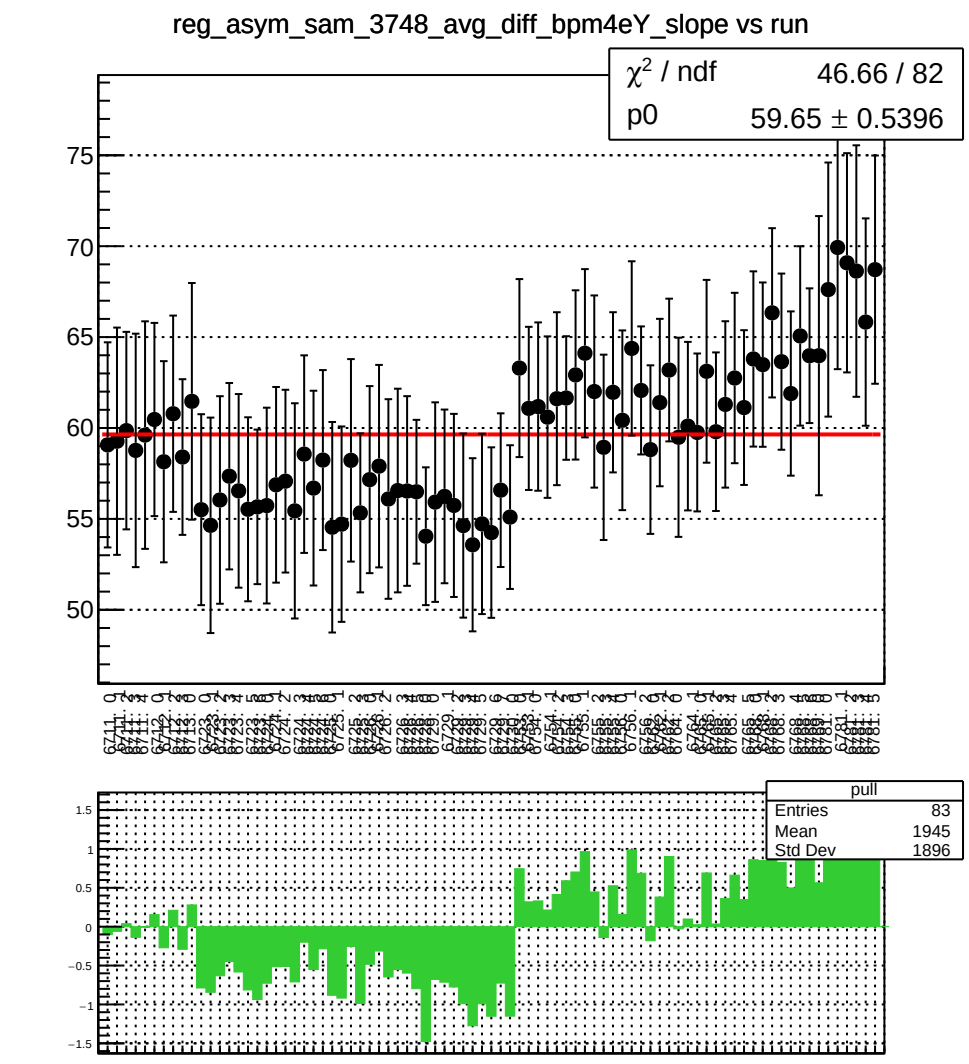

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 27.28 / 82
p0 −0.1007 ± 0.02767
pull
Entries 83
Mean 383.5
Std Dev 324.4
pull1D
Entries 83
Mean 0.01418
Std Dev 0.5731

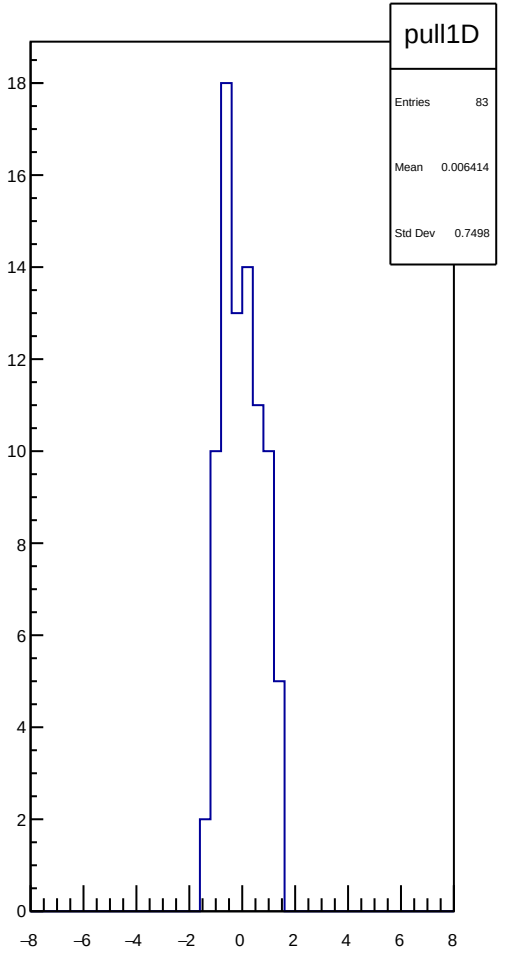

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 13.63 / 82
p0 −1.476 ± 0.6922
pull
Entries 83
Mean 205
Std Dev 164.2

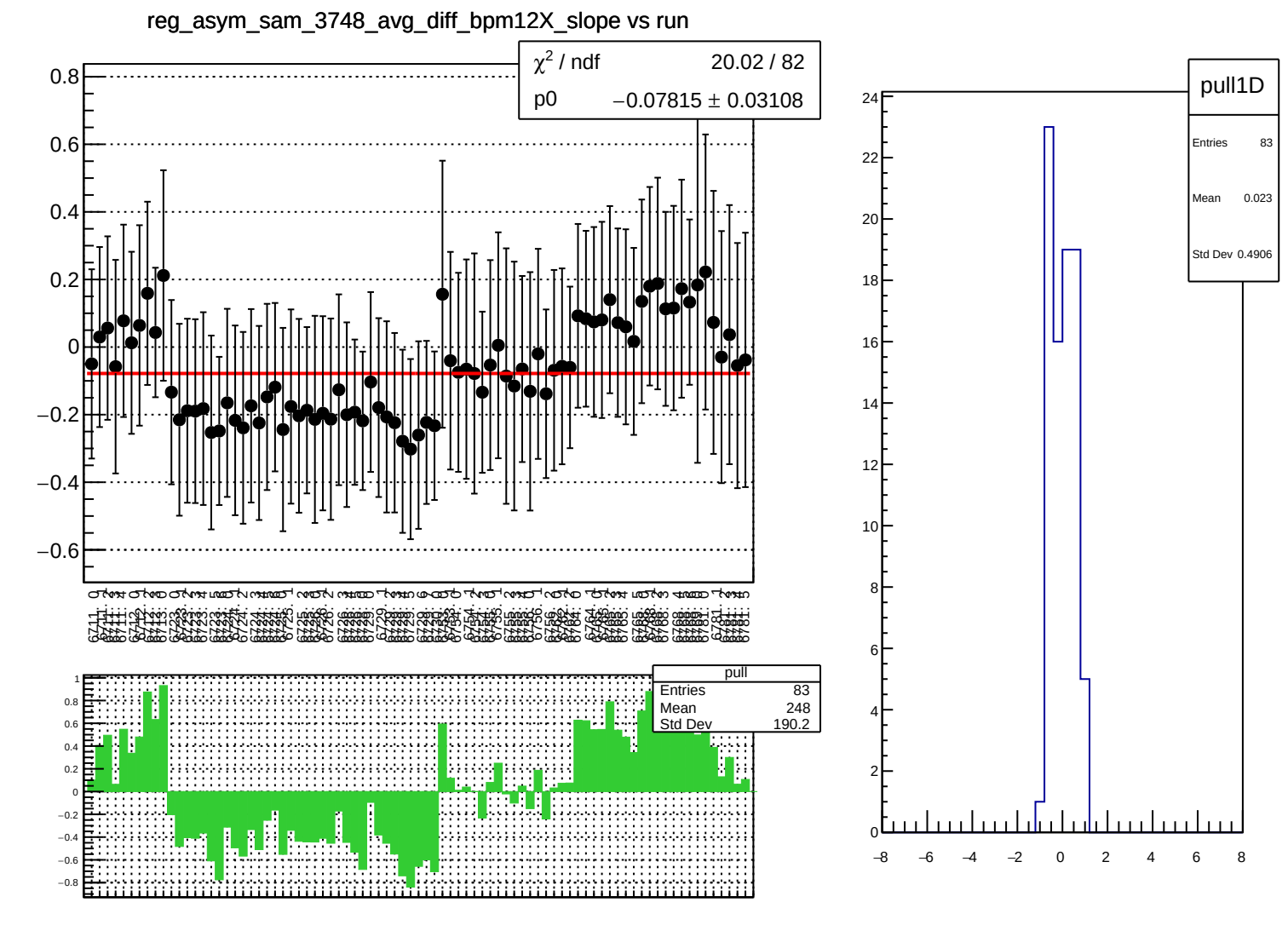

pull1D
Entries 83
Mean −0.03913
Std Dev 0.4033

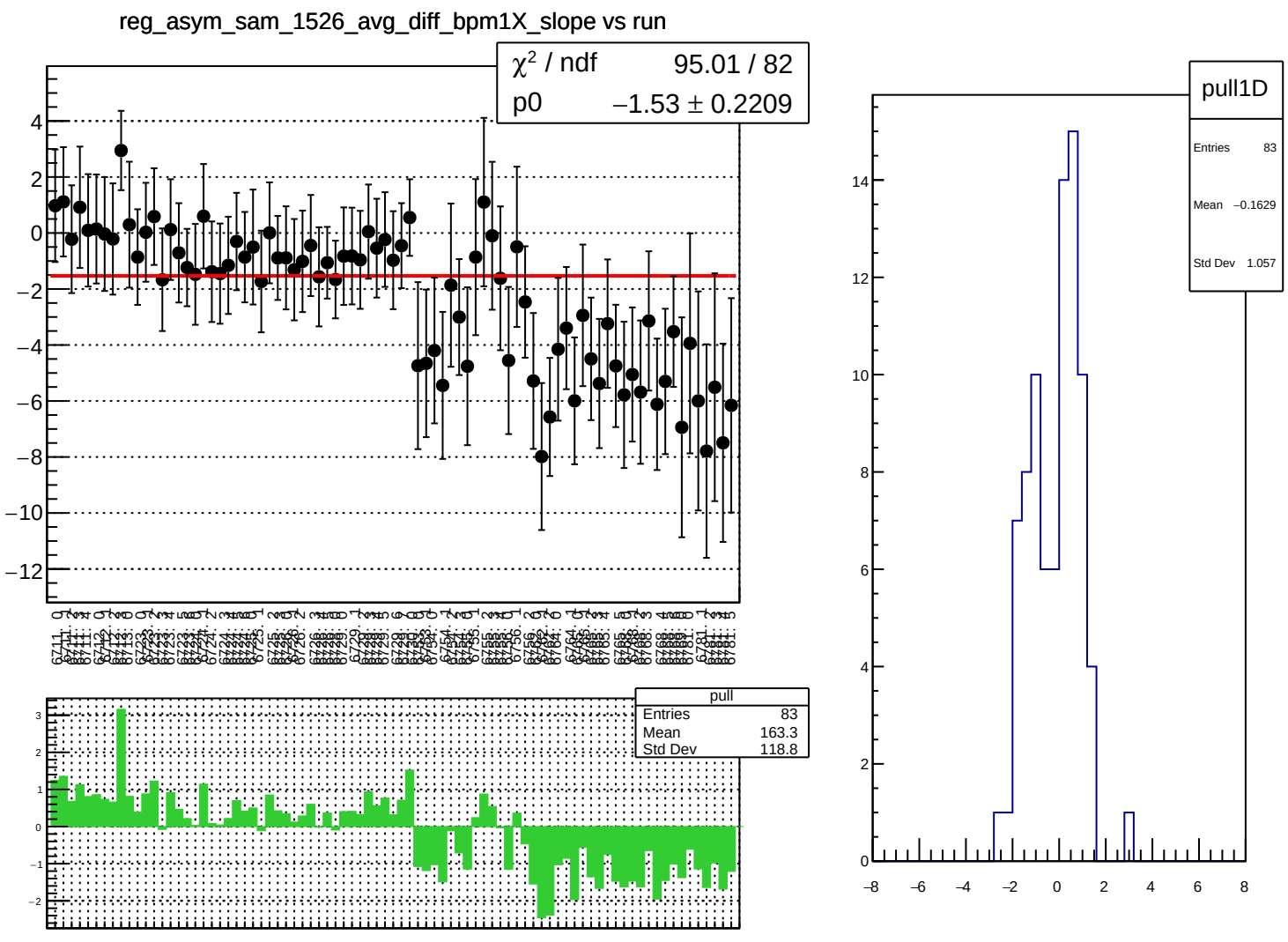

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.89 / 82
p0 −7.221 ± 0.4288
pull
Entries 83
Mean −196.1
Std Dev 242
pull1D
Entries 83
Mean 0.02942
Std Dev 0.4887

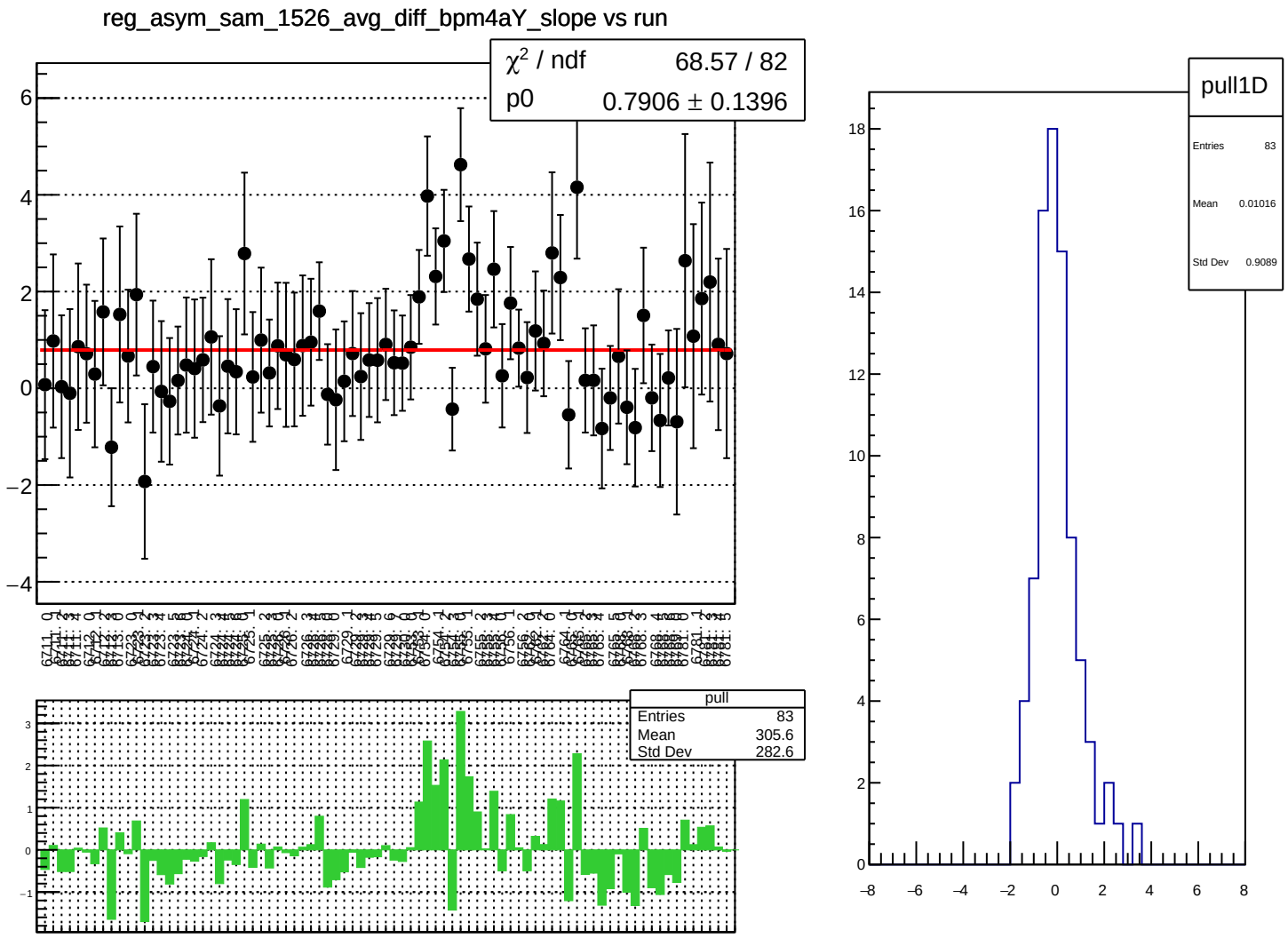

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 53.98 / 82
p0 −64.44 ± 0.6649
−50
−60
−70
−80
−90
−100
pull
Entries 83
Mean 173.4
Std Dev 119.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 83
Mean −0.08294
Std Dev 0.8022
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

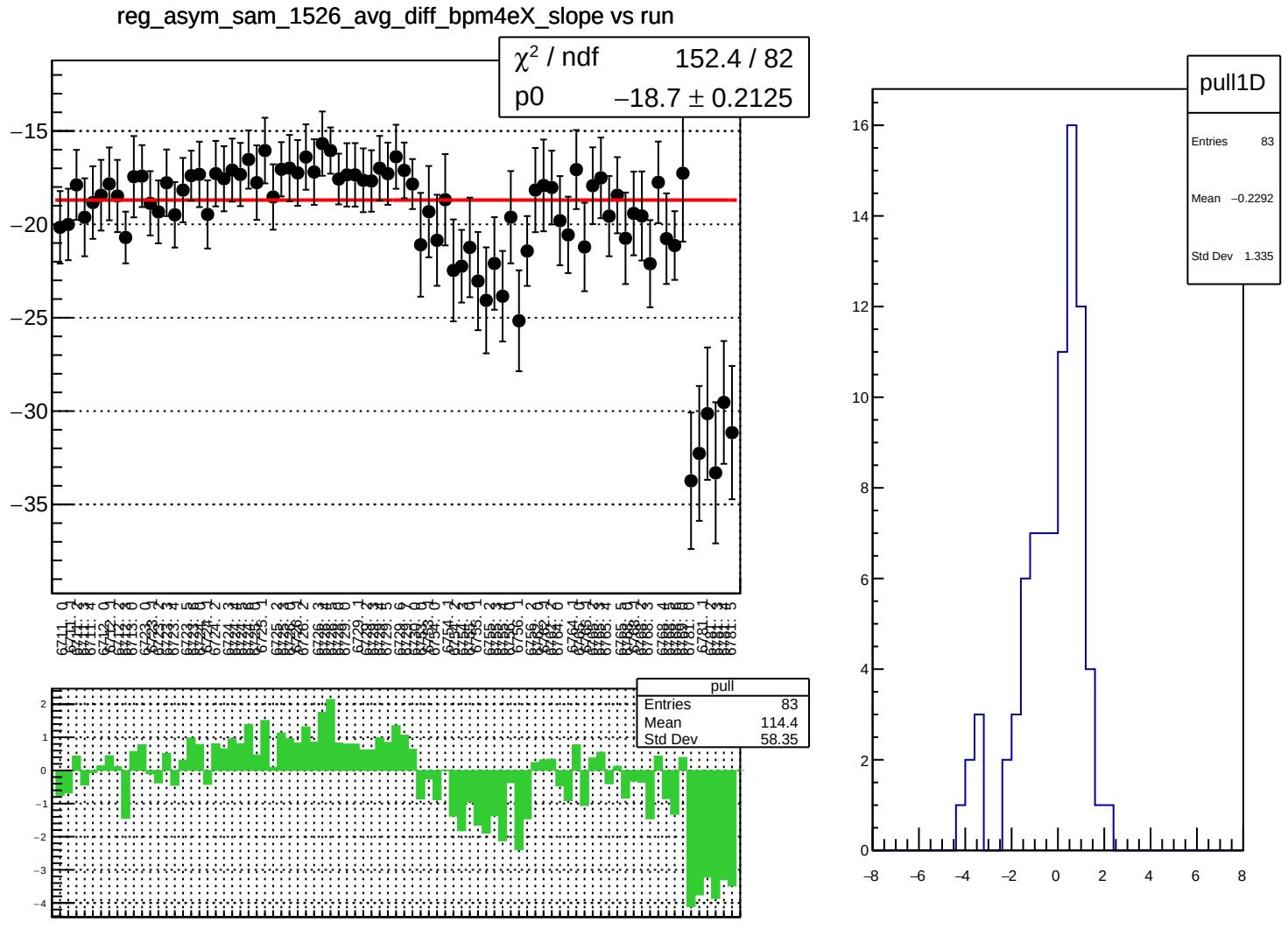

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 46.66 / 82
p0 59.65 ± 0.5396
pull
Entries 83
Mean 1945
Std Dev 1896

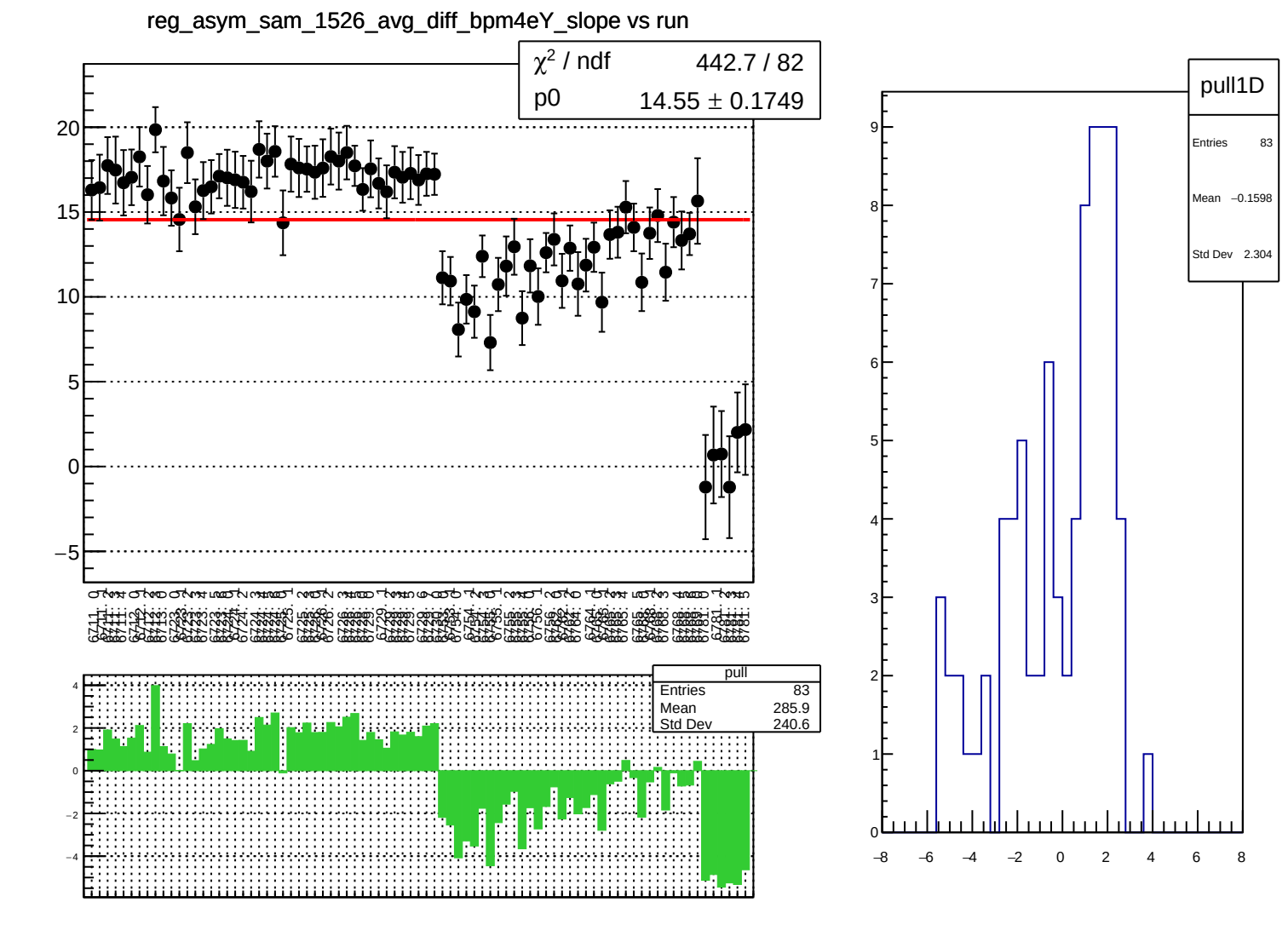

pull1D
Entries 83
Mean 0.006414
Std Dev 0.7498

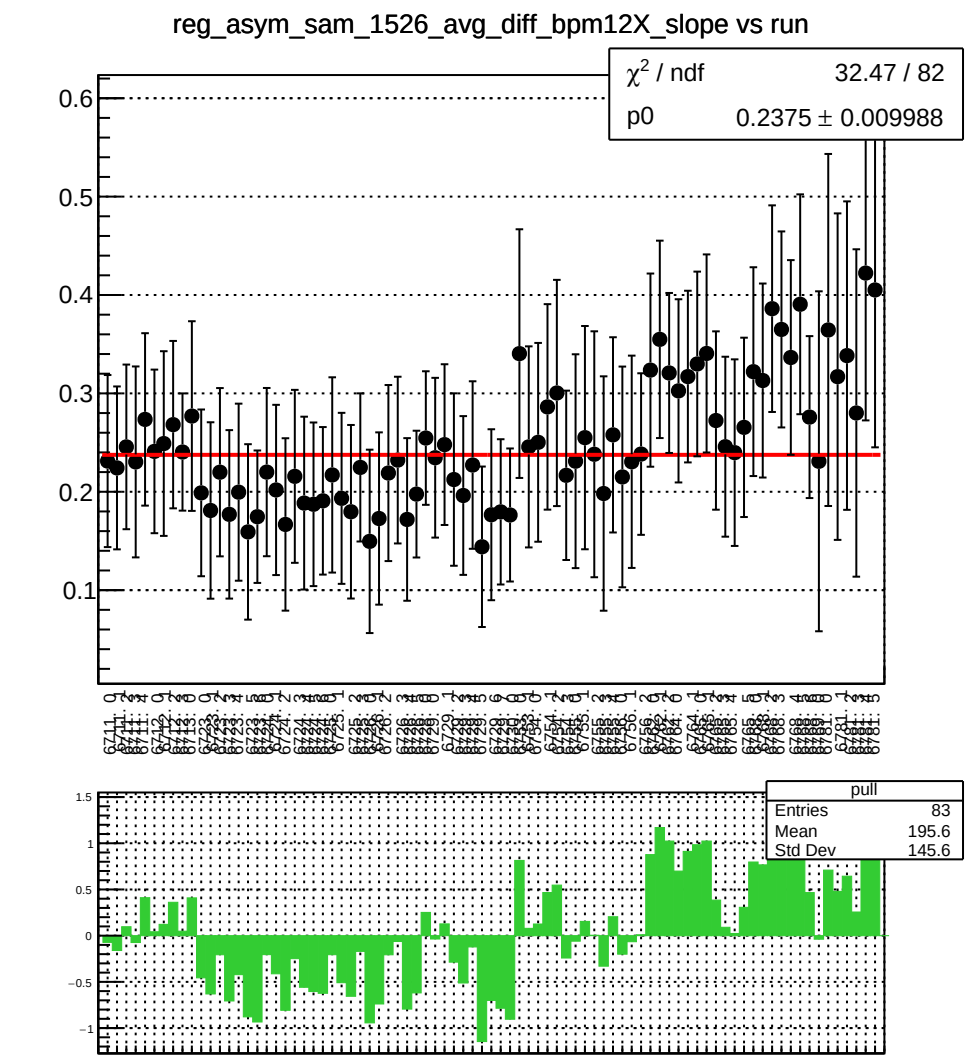

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 20.02 / 82
p0 −0.07815 ± 0.03108
pull
Entries 83
Mean 248
Std Dev 190.2
pull1D
Entries 83
Mean 0.023
Std Dev 0.4906

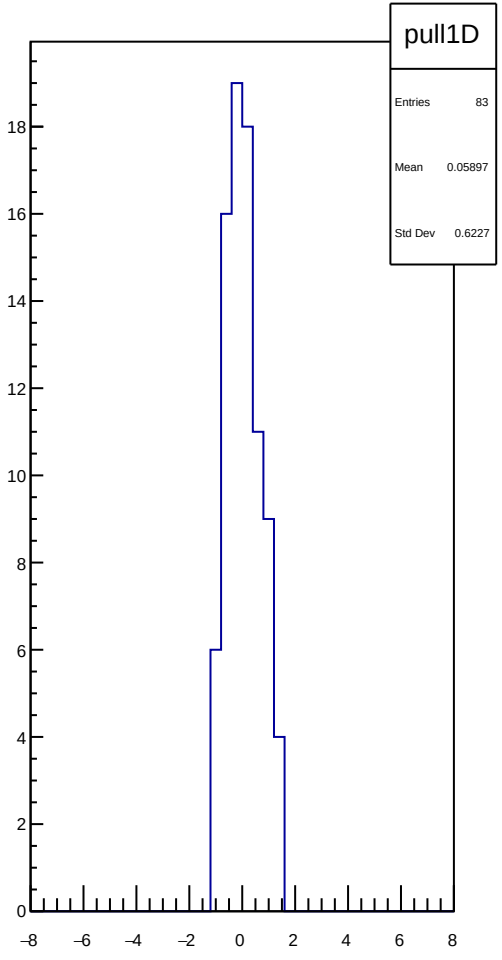

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 95.01 / 82
p0 −1.53 ± 0.2209
pull
Entries 83
Mean 163.3
Std Dev 118.8
pull1D
Entries 83
Mean −0.1629
Std Dev 1.057

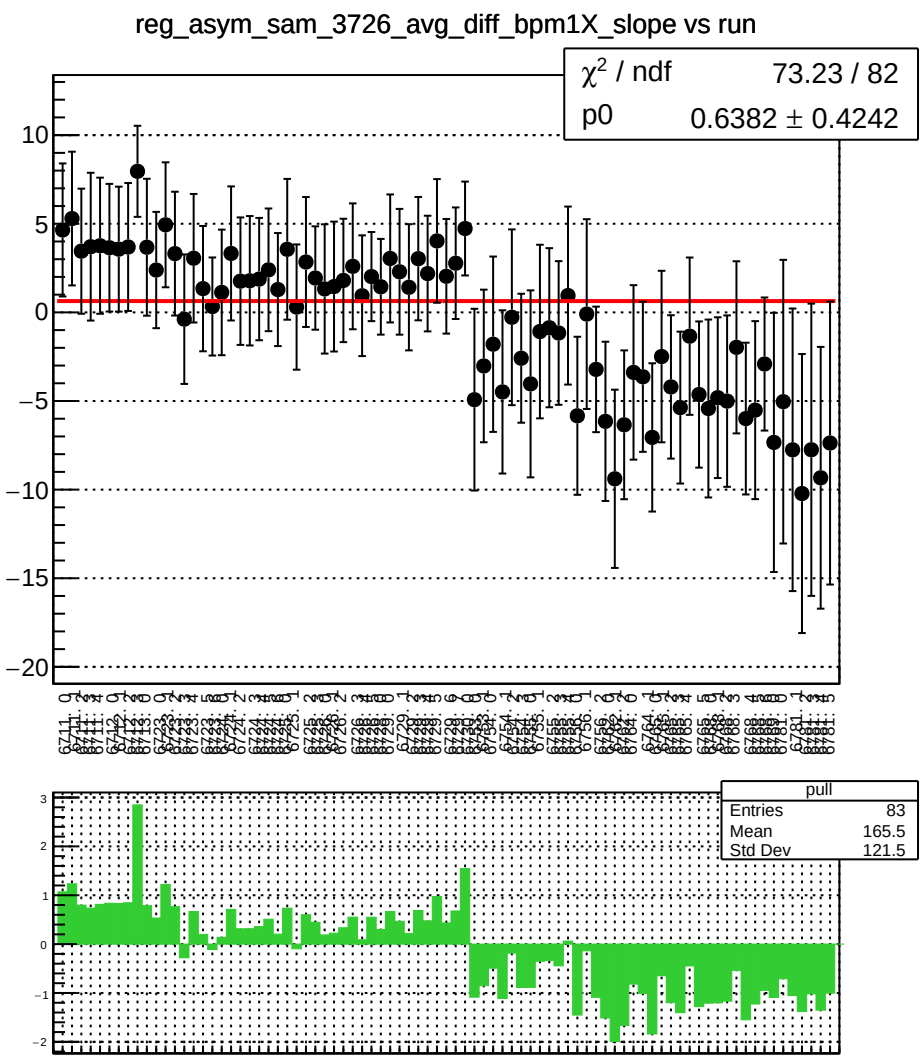

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 68.57 / 82
p0 0.7906 ± 0.1396
pull
Entries 83
Mean 305.6
Std Dev 282.6
pull1D
Entries 83
Mean 0.01016
Std Dev 0.9089

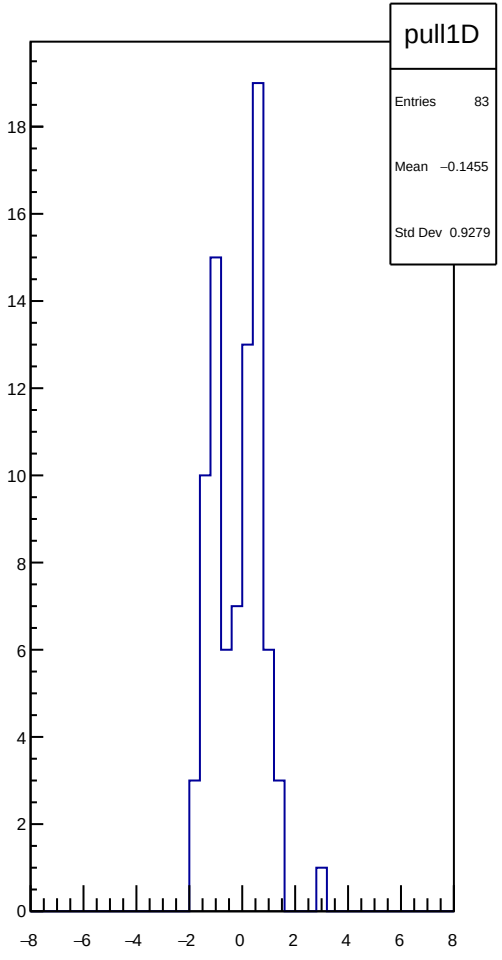

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 152.4 / 82
p0 −18.7 ± 0.2125
pull
Entries 83
Mean 114.4
Std Dev 58.35
pull1D
Entries 83
Mean −0.2292
Std Dev 1.335

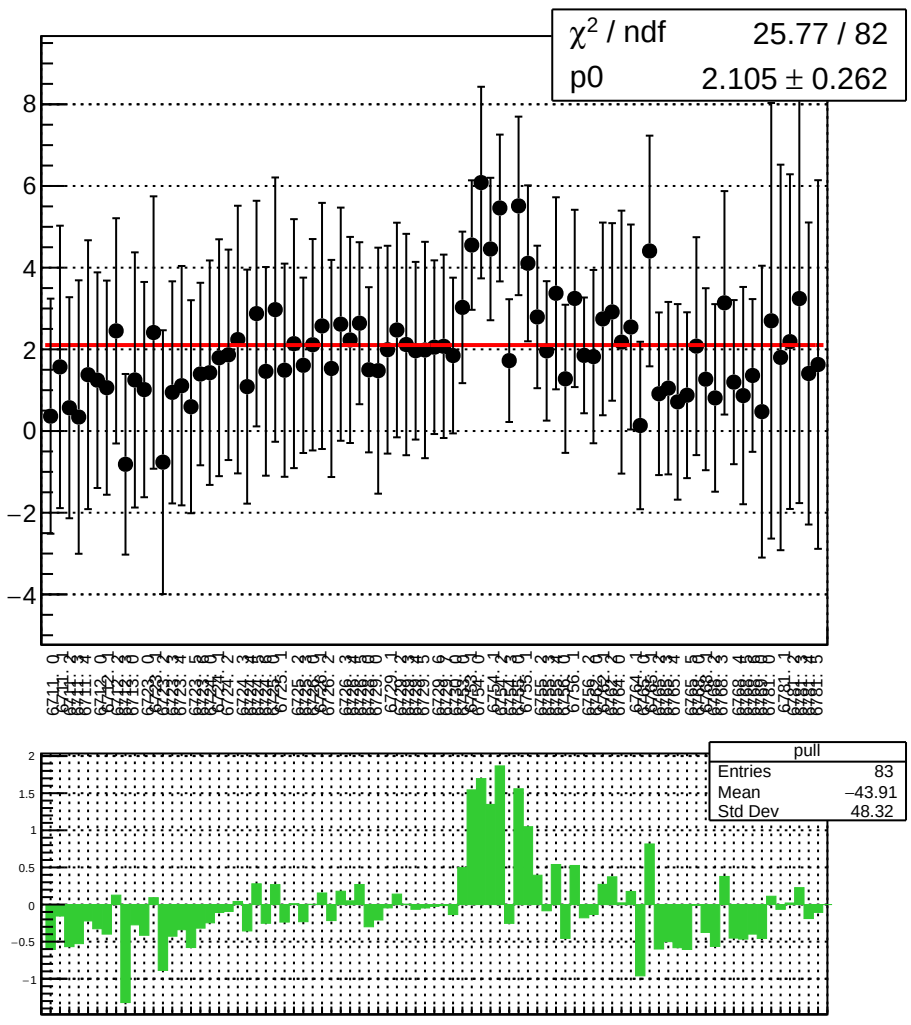

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 442.7 / 82
p0 14.55 ± 0.1749
pull
Entries 83
Mean 285.9
Std Dev 240.6
pull1D
Entries 83
Mean −0.1598
Std Dev 2.304

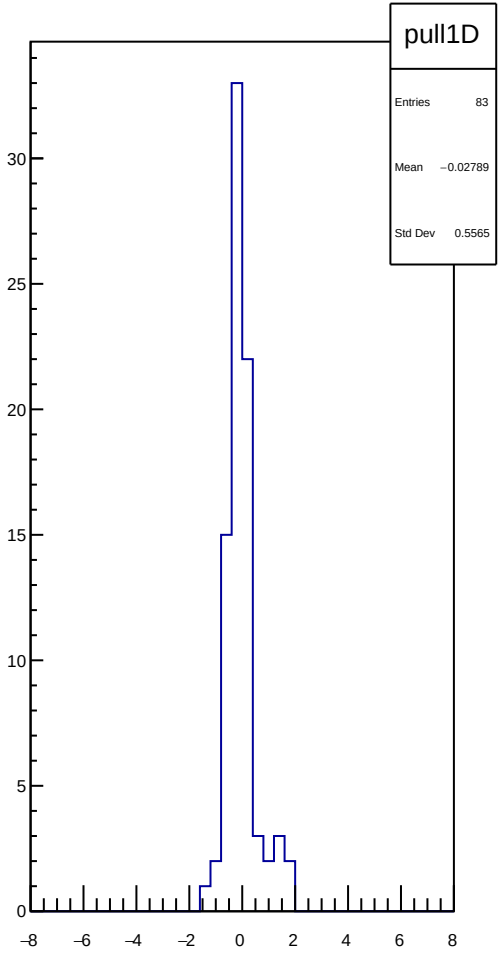

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 32.47 / 82
p0 0.2375 ± 0.009988
pull
Entries 83
Mean 195.6
Std Dev 145.6

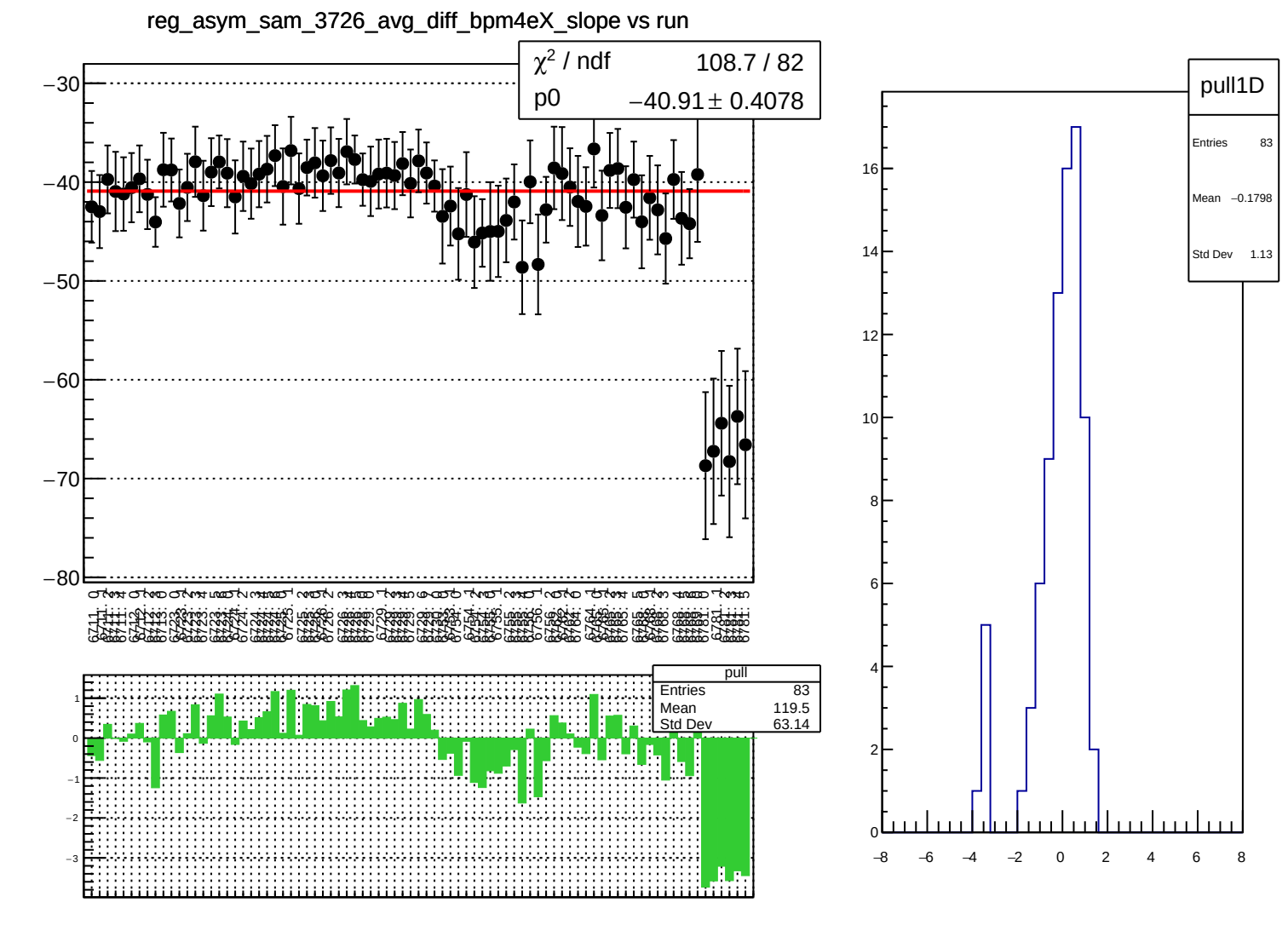

pull1D
Entries 83
Mean 0.05897
Std Dev 0.6227

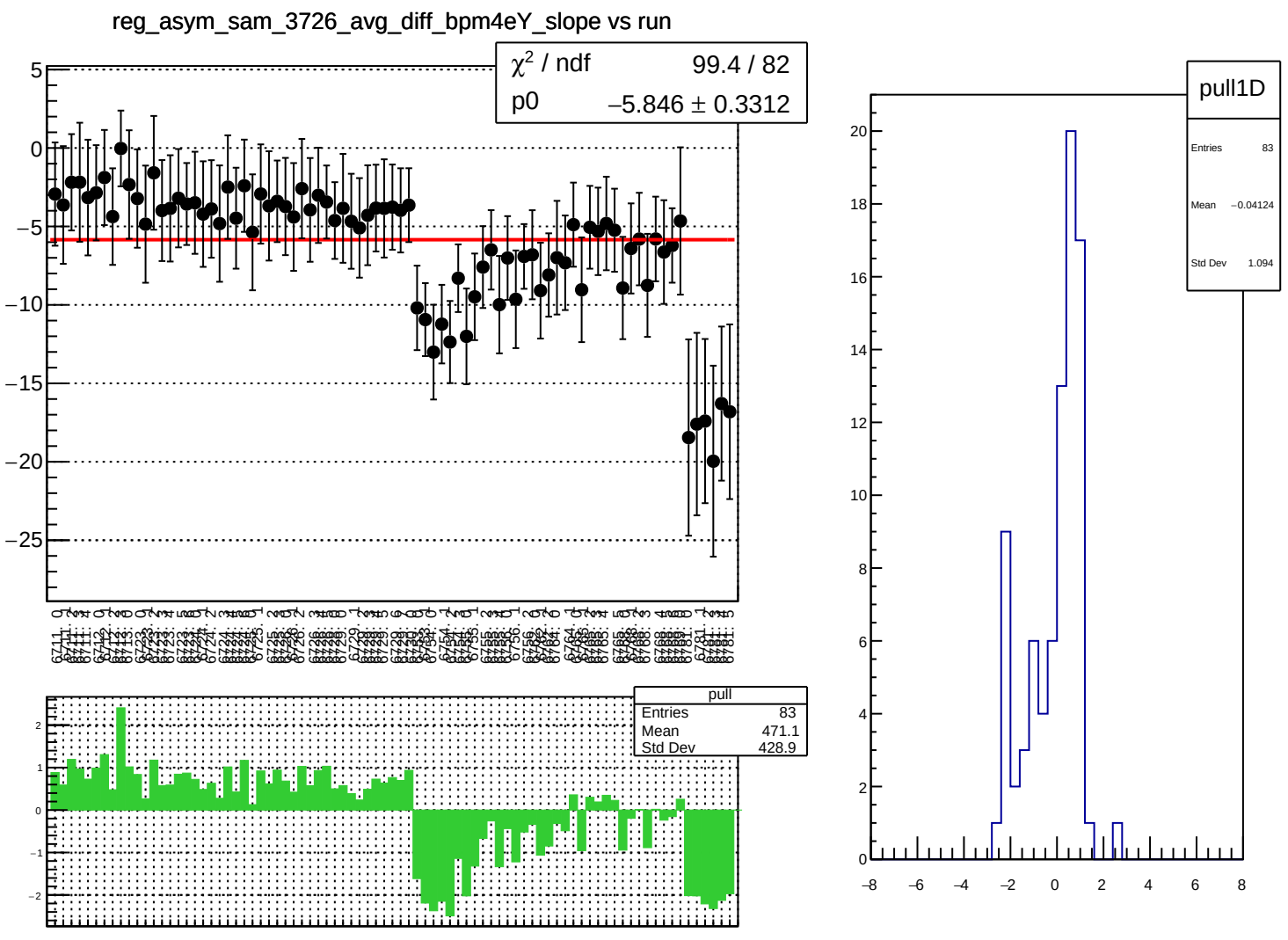

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 73.23 / 82
p0 0.6382 ± 0.4242
pull
Entries 83
Mean 165.5
Std Dev 121.5

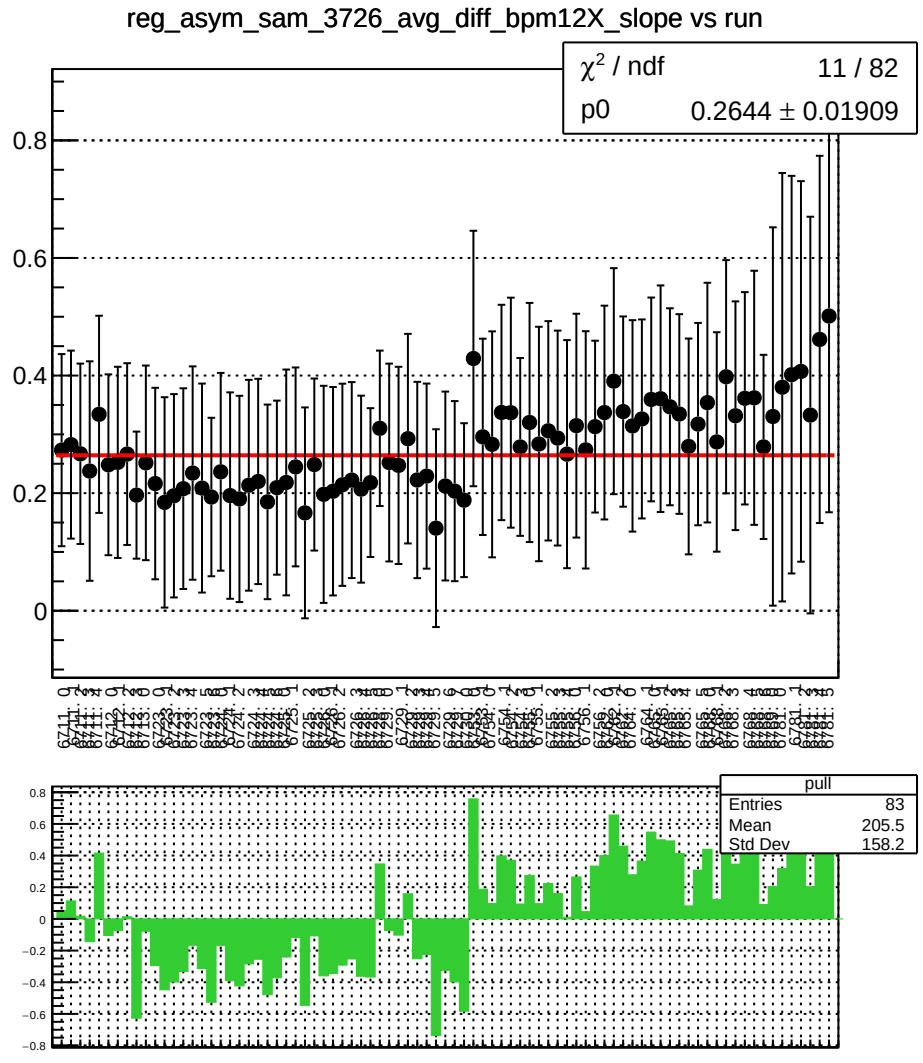

pull1D
Entries 83
Mean −0.1455
Std Dev 0.9279

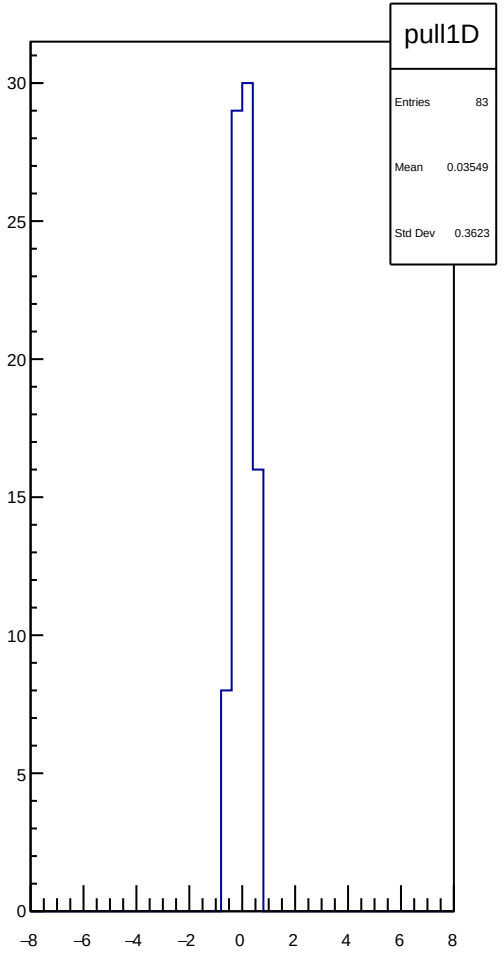

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.77 / 82
p0 2.105 ± 0.262
pull
Entries 83
Mean −43.91
Std Dev 48.32

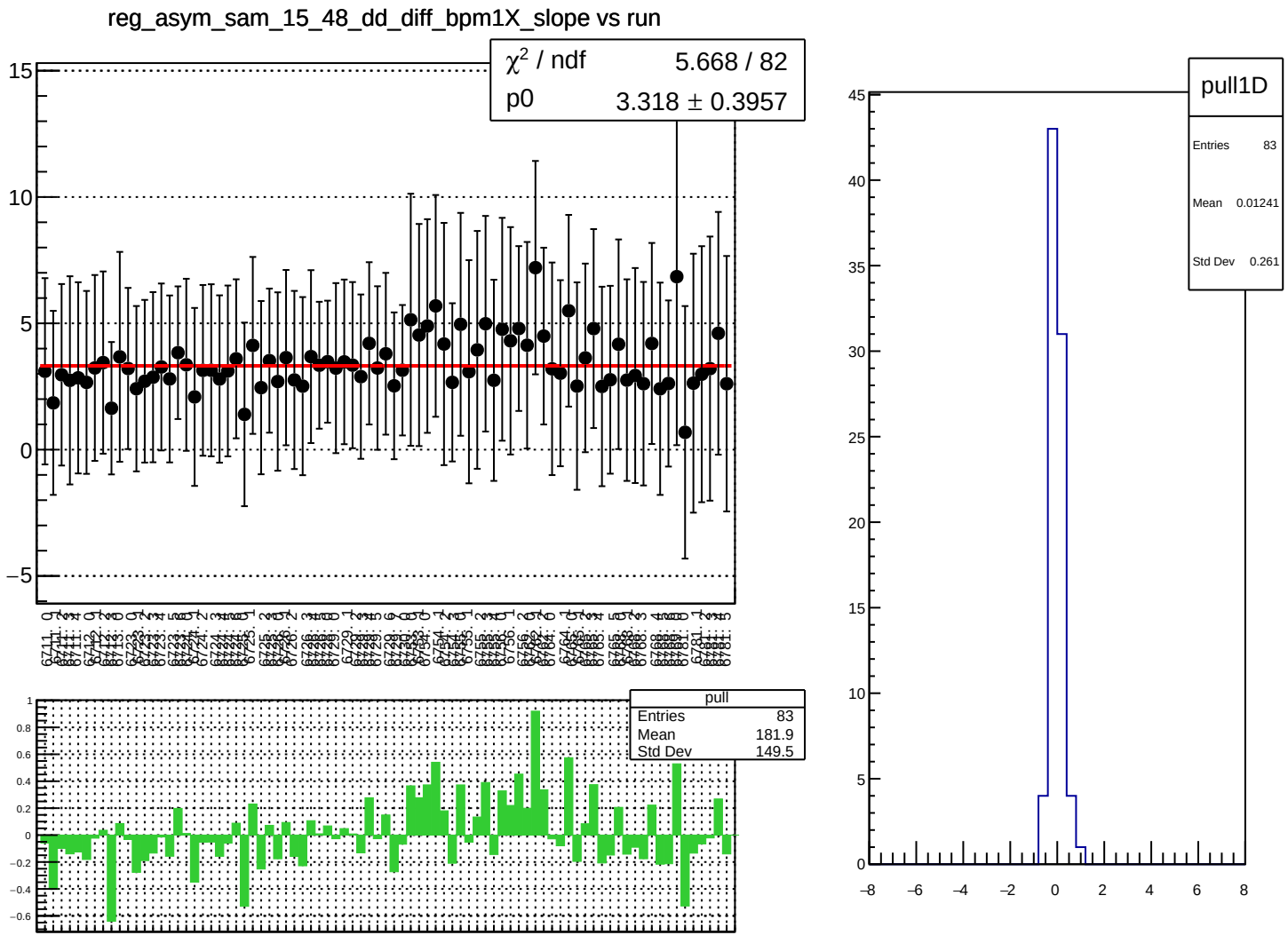

pull1D
Entries 83
Mean −0.02789
Std Dev 0.5565

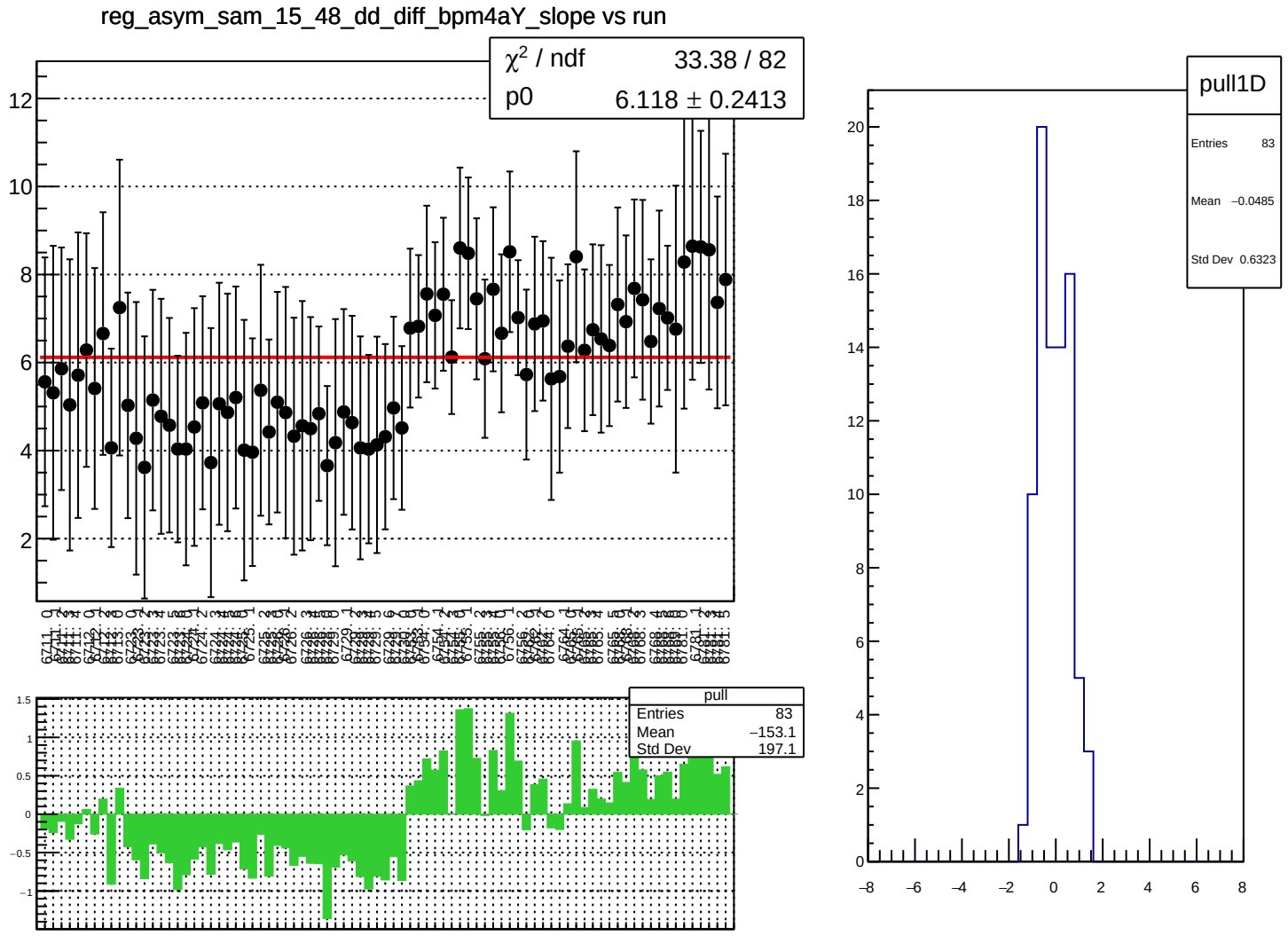

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 108.7 / 82
p0 −40.91 ± 0.4078
pull
Entries 83
Mean 119.5
Std Dev 63.14
pull1D
Entries 83
Mean −0.1798
Std Dev 1.13

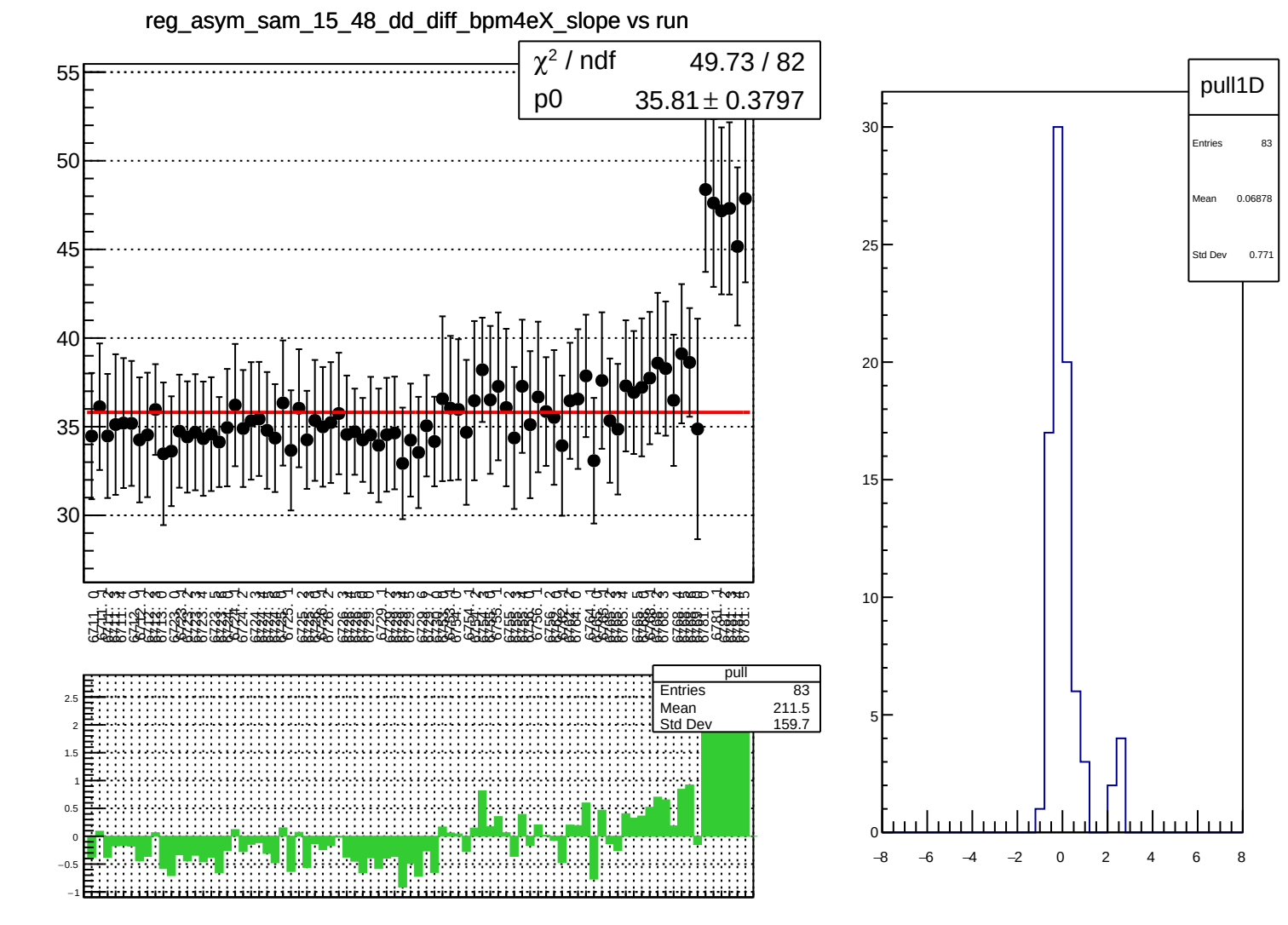

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 99.4 / 82
p0 −5.846 ± 0.3312
pull
Entries 83
Mean 471.1
Std Dev 428.9
pull1D
Entries 83
Mean −0.04124
Std Dev 1.094

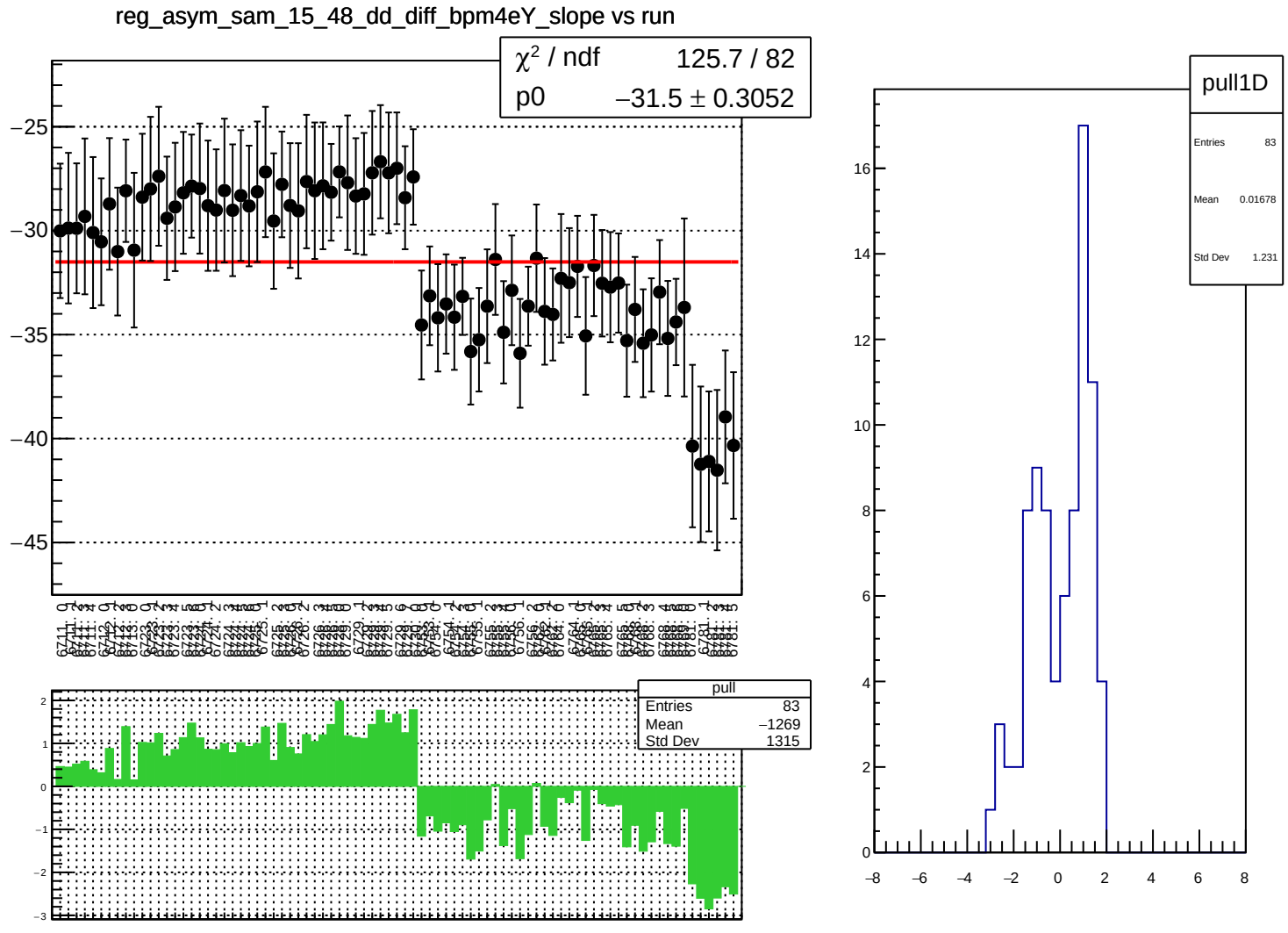

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 11 / 82
p0 0.2644 ± 0.01909
0.8
0.6
0.4
0.2
0
pull
Entries 83
Mean 205.5
Std Dev 158.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

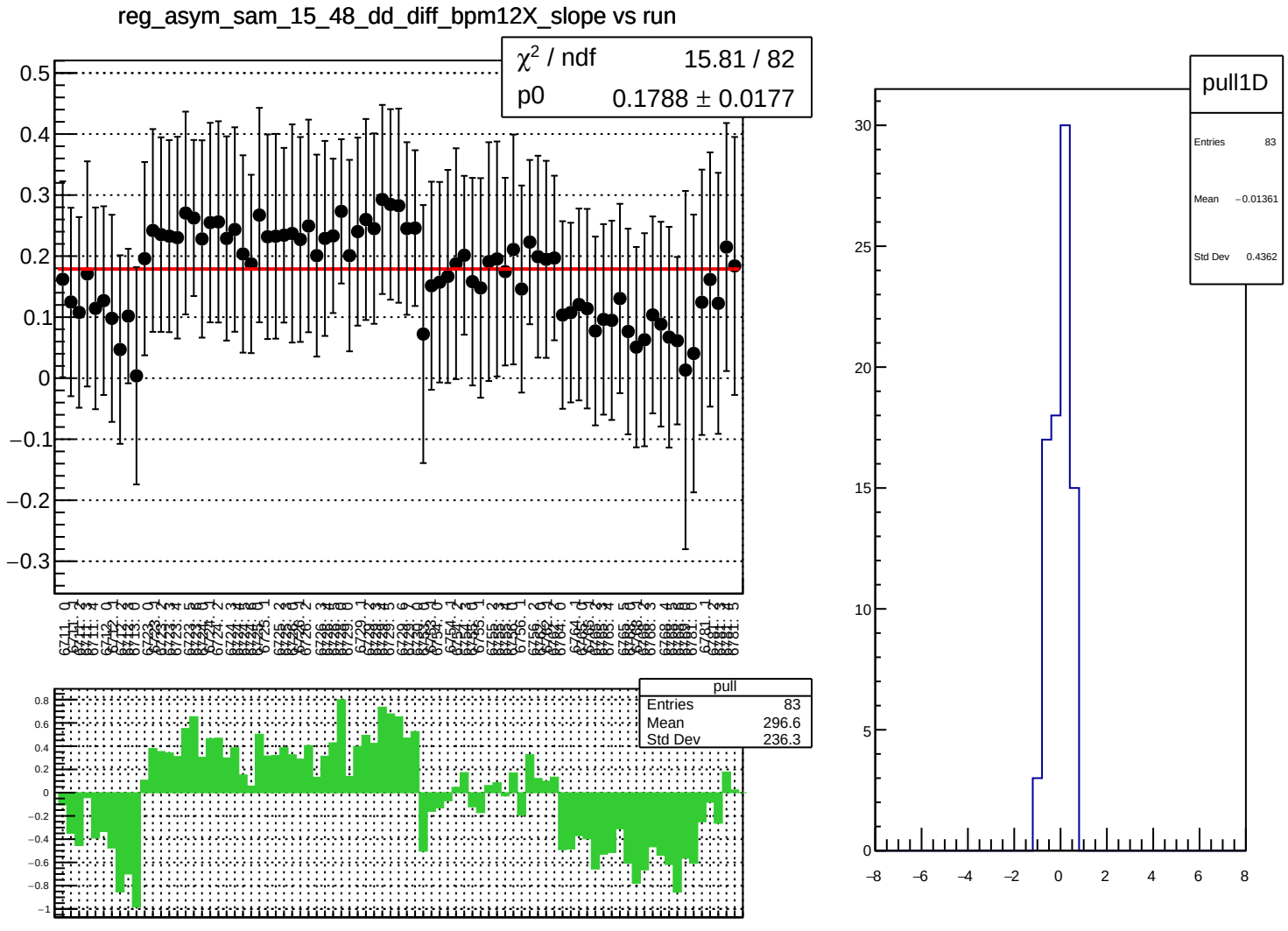

pull1D
Entries 83
Mean 0.03549
Std Dev 0.3623
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

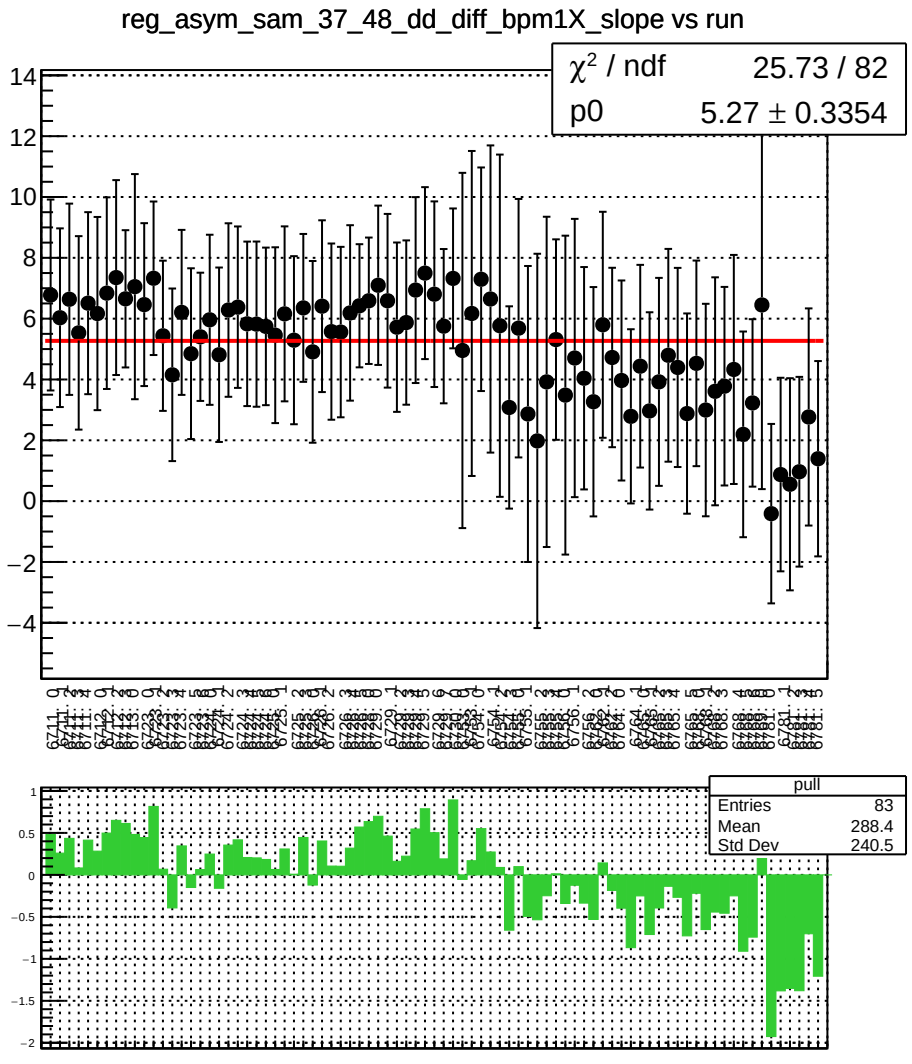

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 5.668 / 82
p0 3.318 ± 0.3957
pull
Entries 83
Mean 181.9
Std Dev 149.5
pull1D
Entries 83
Mean 0.01241
Std Dev 0.261

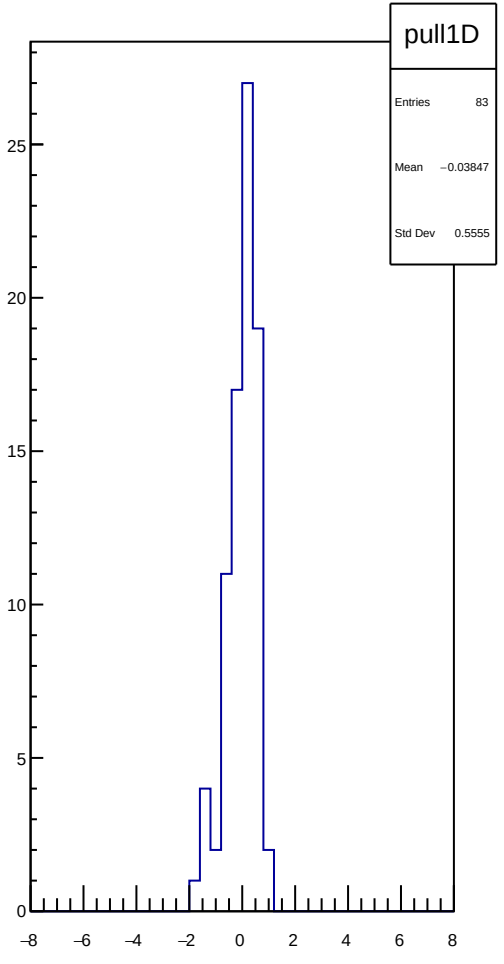

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.38 / 82
p0 6.118 ± 0.2413
pull
Entries 83
Mean −153.1
Std Dev 197.1
pull1D
Entries 83
Mean −0.0485
Std Dev 0.6323

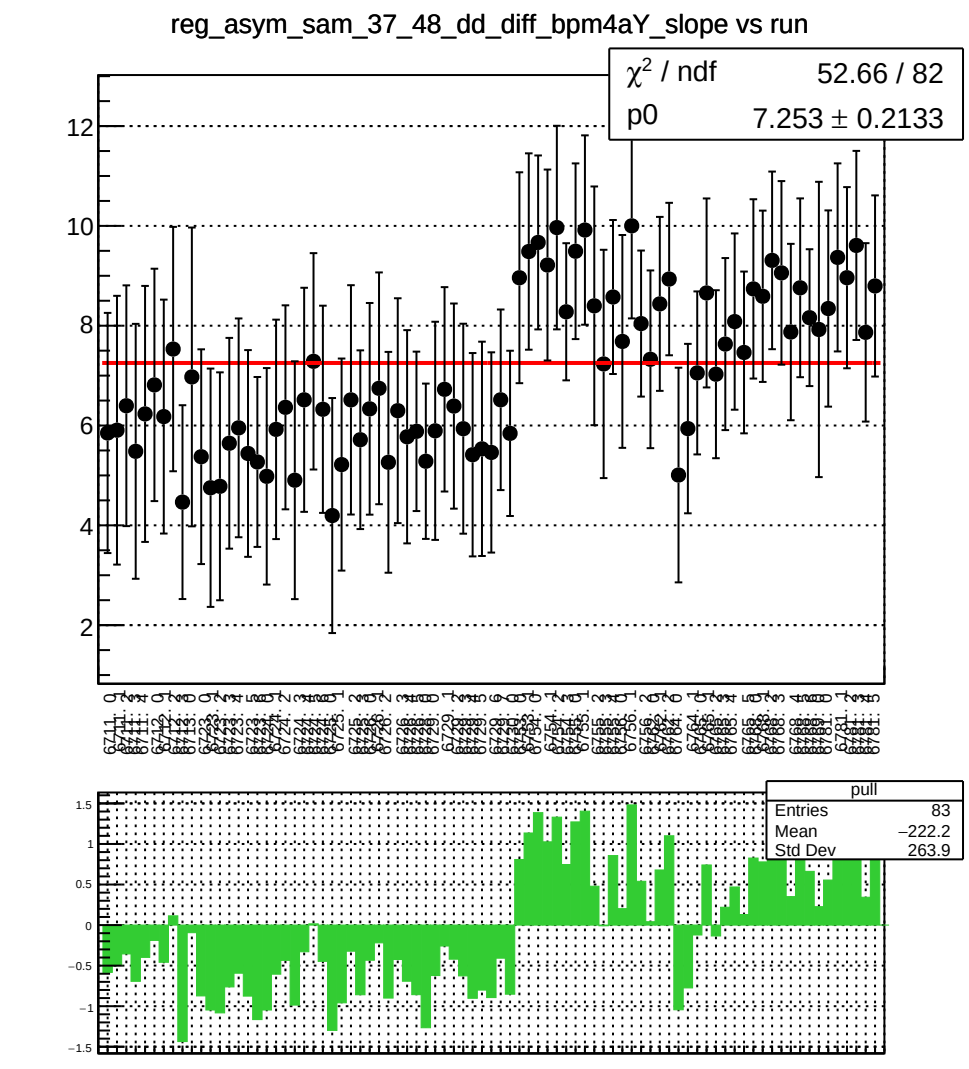

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.73 / 82
p0 35.81 ± 0.3797
pull
Entries 83
Mean 211.5
Std Dev 159.7
pull1D
Entries 83
Mean 0.06878
Std Dev 0.771

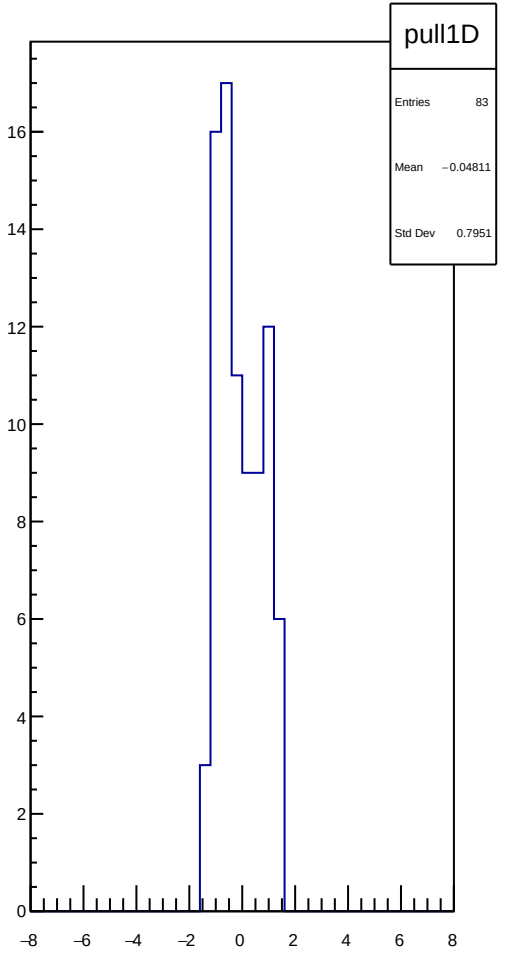

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 125.7 / 82
p0 −31.5 ± 0.3052
pull
Entries 83
Mean −1269
Std Dev 1315
pull1D
Entries 83
Mean 0.01678
Std Dev 1.231

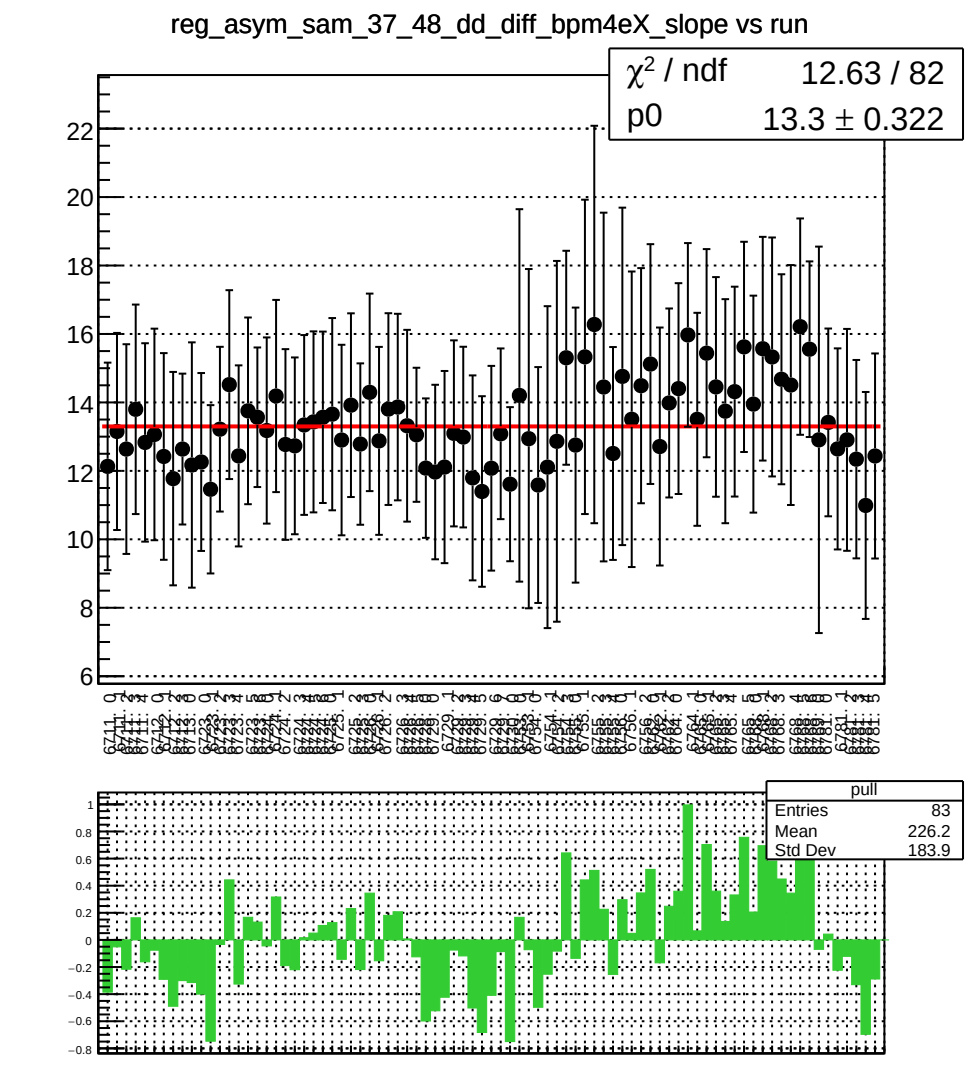

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 15.81 / 82
p0 0.1788 ± 0.0177
pull
Entries 83
Mean 296.6
Std Dev 236.3
pull1D
Entries 83
Mean −0.01361
Std Dev 0.4362

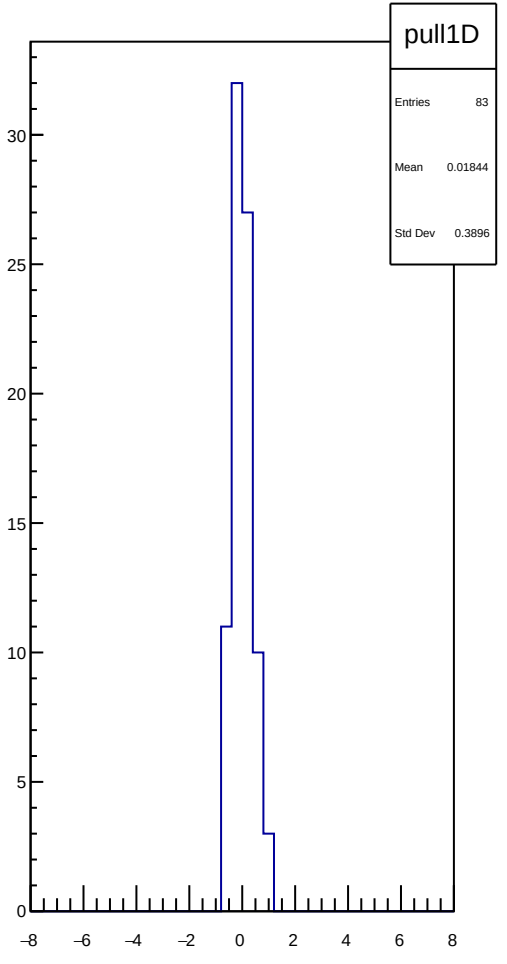

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 25.73 / 82
p0 5.27 ± 0.3354
pull
Entries 83
Mean 288.4
Std Dev 240.5

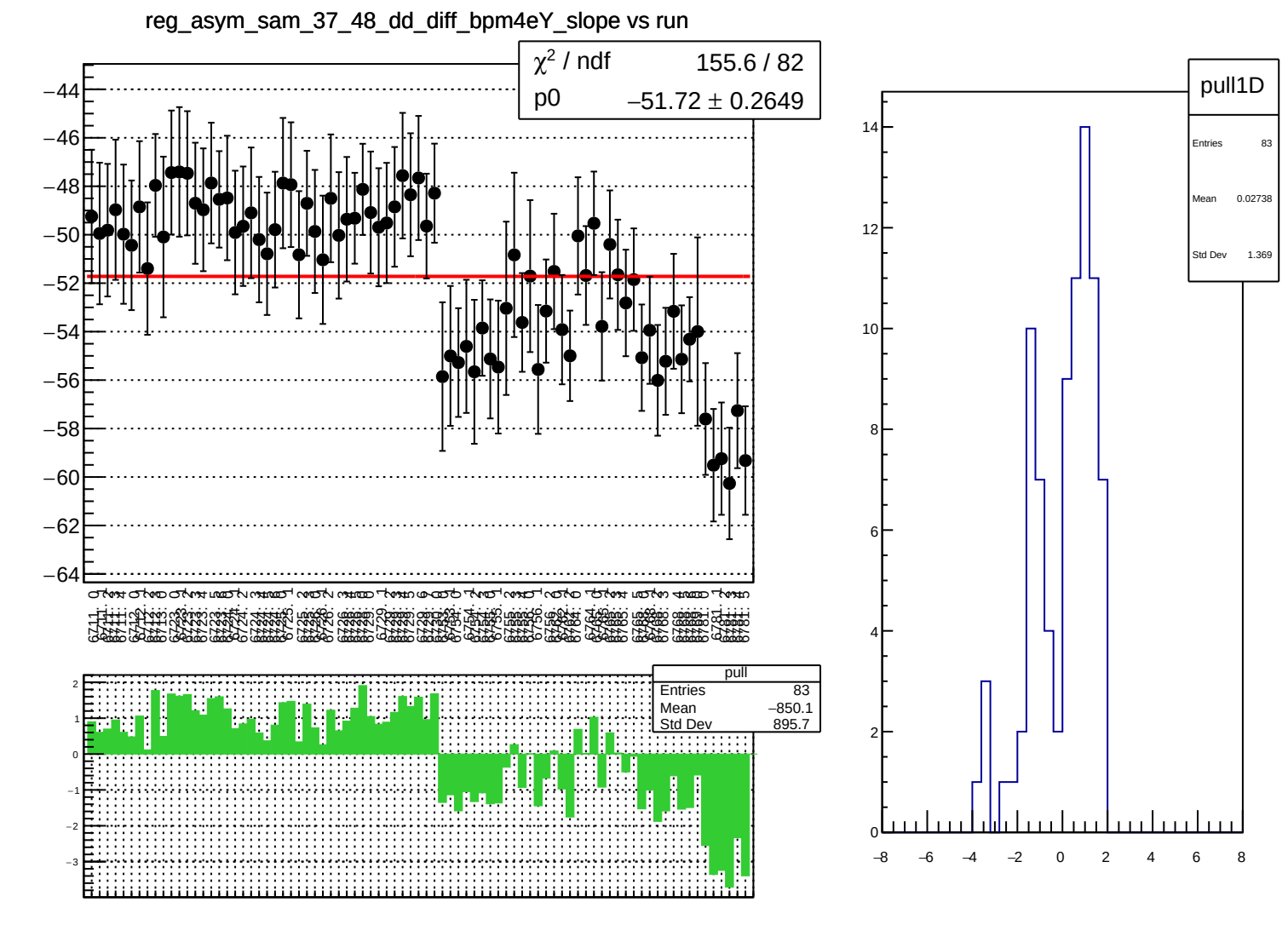

pull1D
Entries 83
Mean −0.03847
Std Dev 0.5555

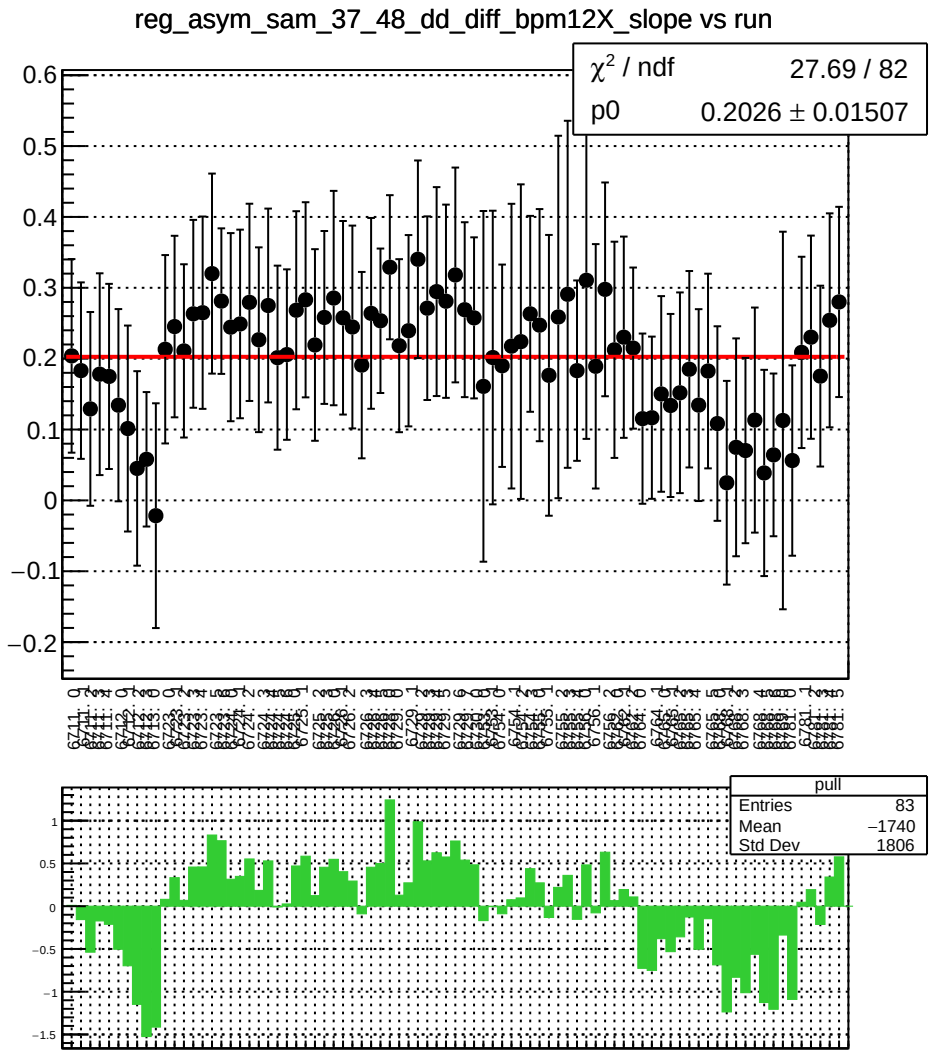

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.66 / 82
p0 7.253 ± 0.2133
pull
Entries 83
Mean −222.2
Std Dev 263.9

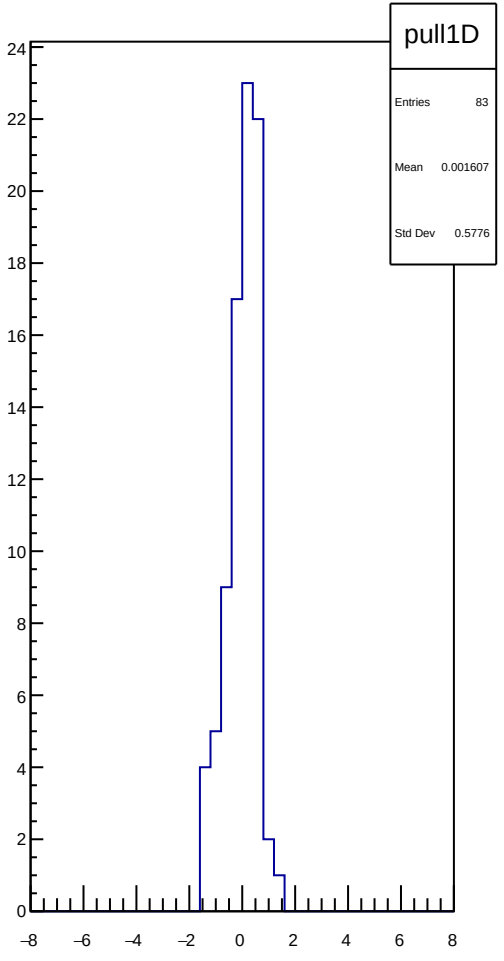

pull1D
Entries 83
Mean −0.04811
Std Dev 0.7951

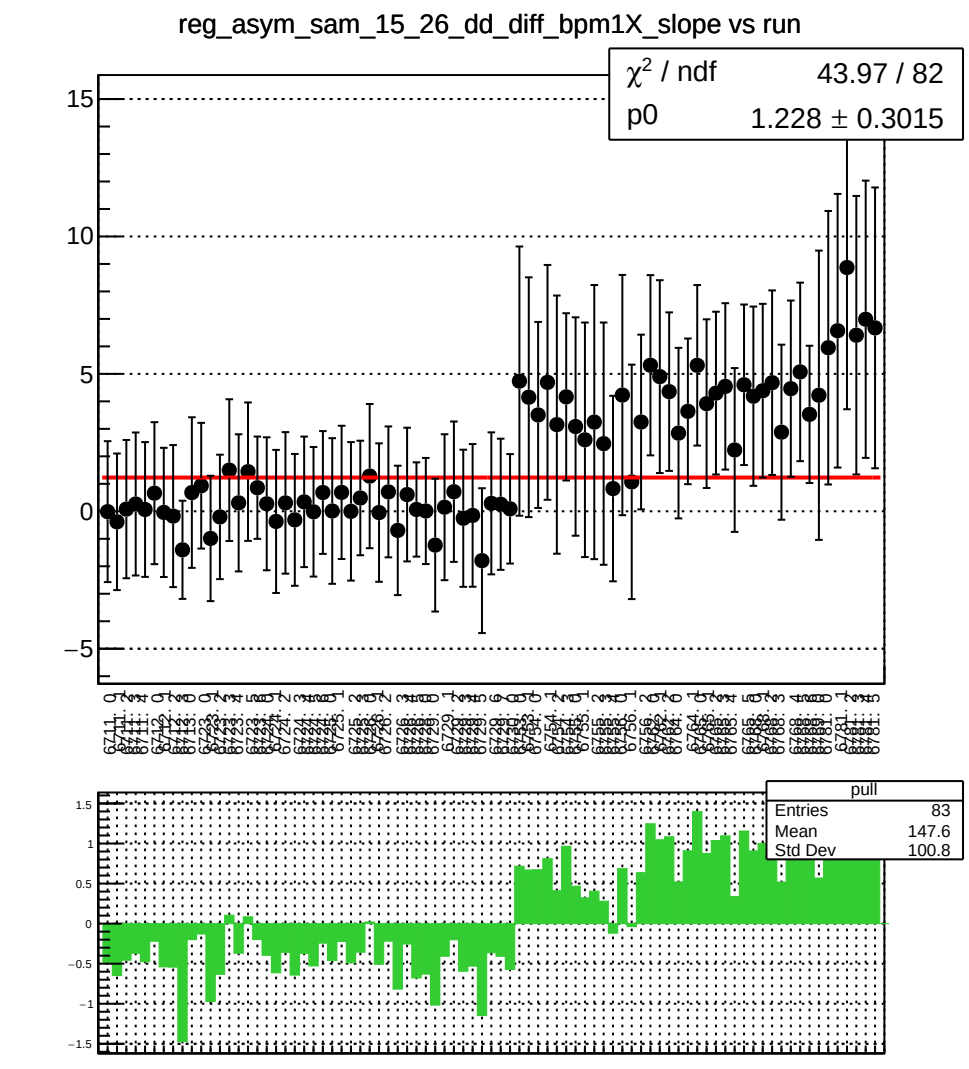

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.63 / 82
p0 13.3 ± 0.322
pull
Entries 83
Mean 226.2
Std Dev 183.9

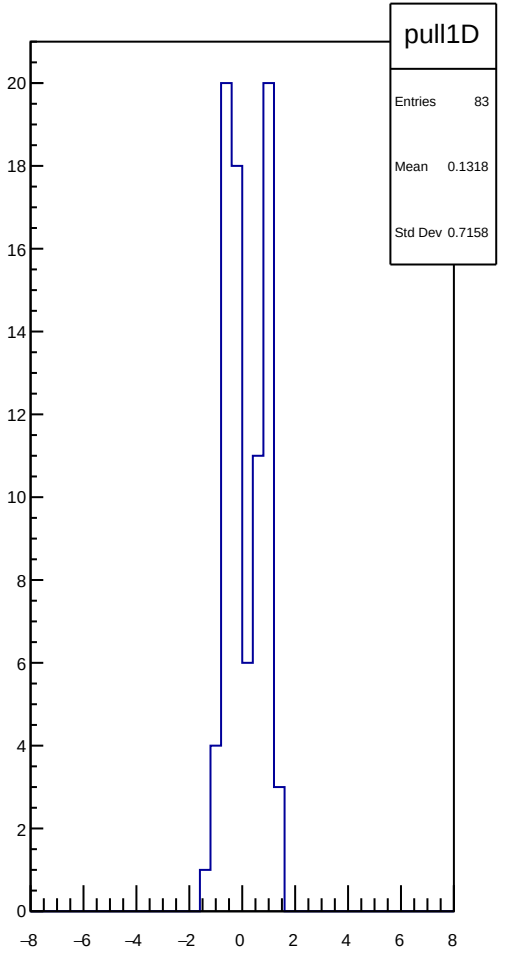

pull1D
Entries 83
Mean 0.01844
Std Dev 0.3896

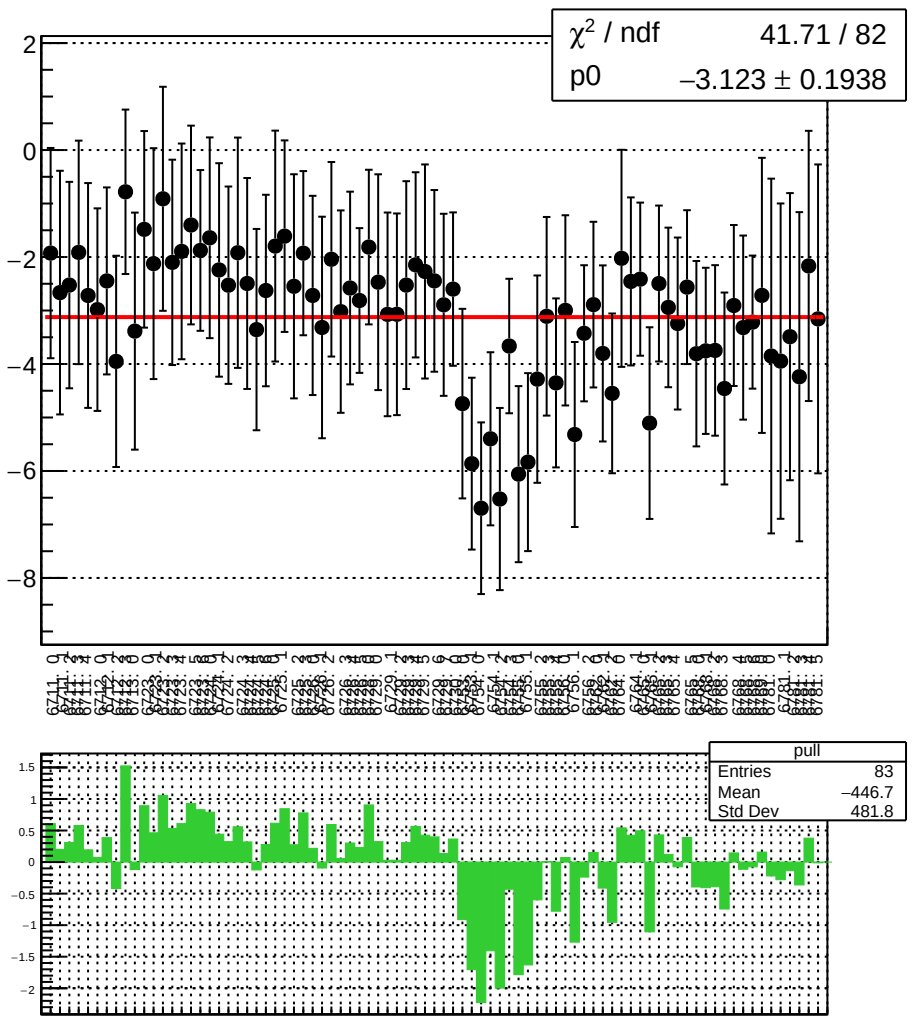

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 155.6 / 82
p0 −51.72 ± 0.2649
pull
Entries 83
Mean −850.1
Std Dev 895.7
pull1D
Entries 83
Mean 0.02738
Std Dev 1.369

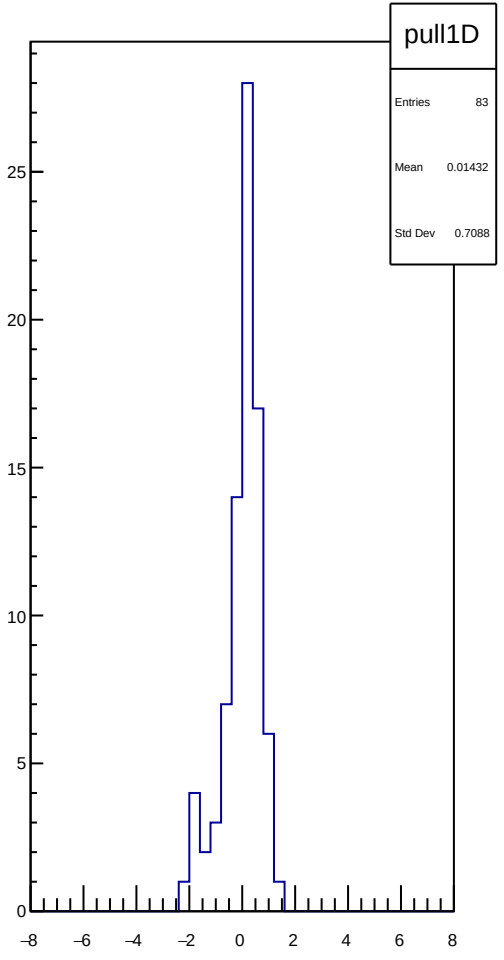

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 27.69 / 82
p0 0.2026 ± 0.01507
pull
Entries 83
Mean −1740
Std Dev 1806

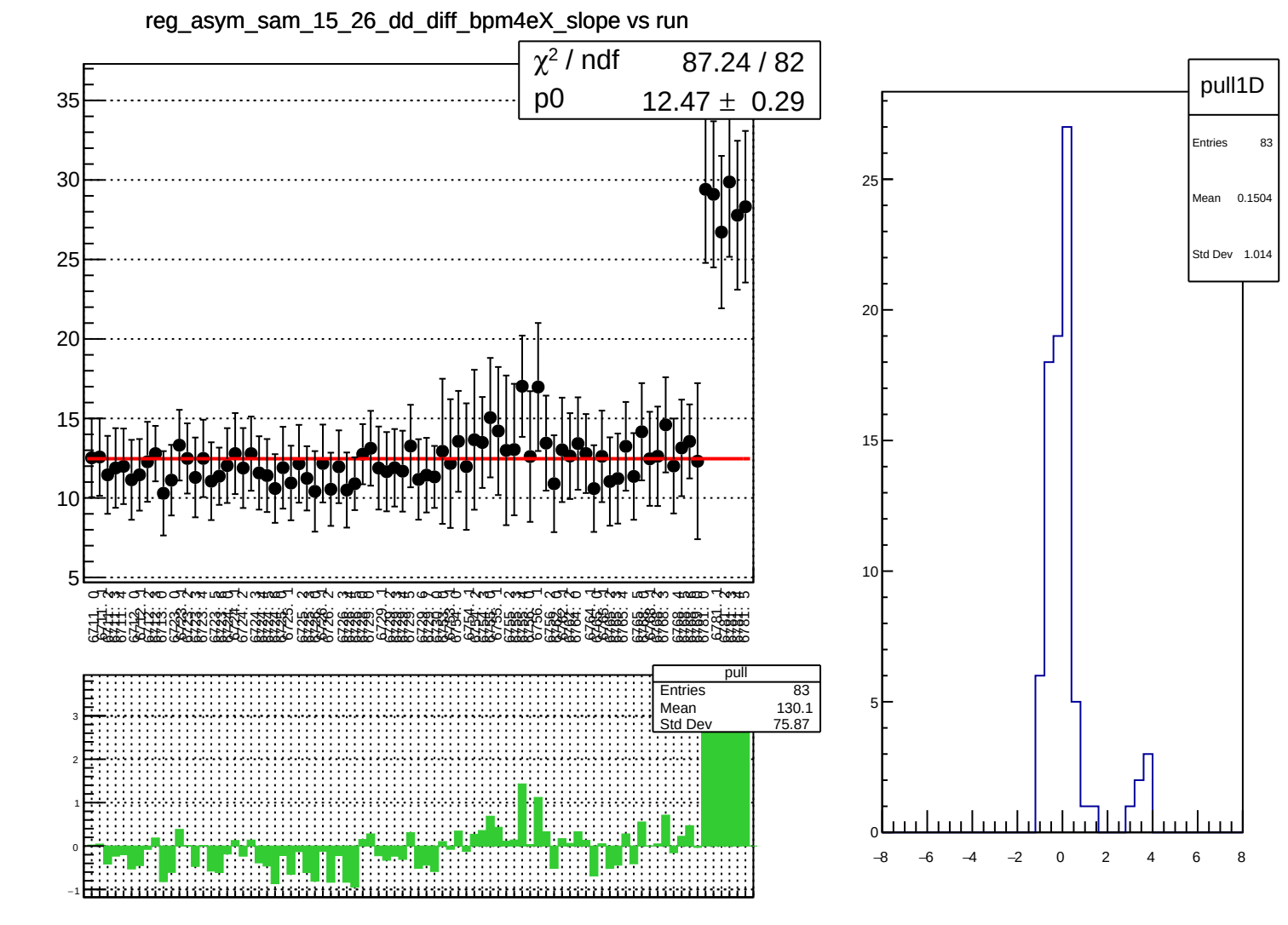

pull1D
Entries 83
Mean 0.001607
Std Dev 0.5776

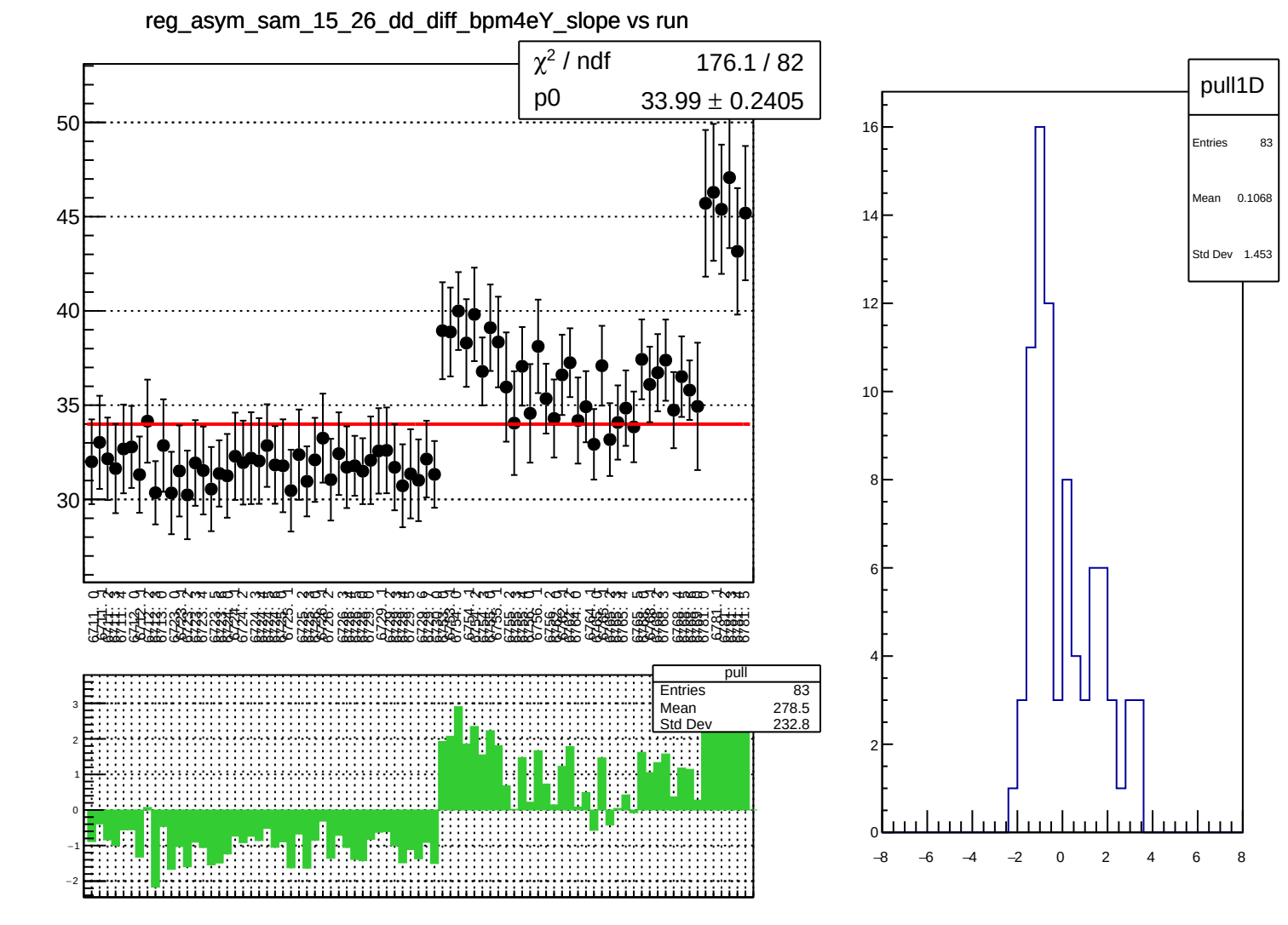

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 43.97 / 82
p0 1.228 ± 0.3015
pull
Entries 83
Mean 147.6
Std Dev 100.8

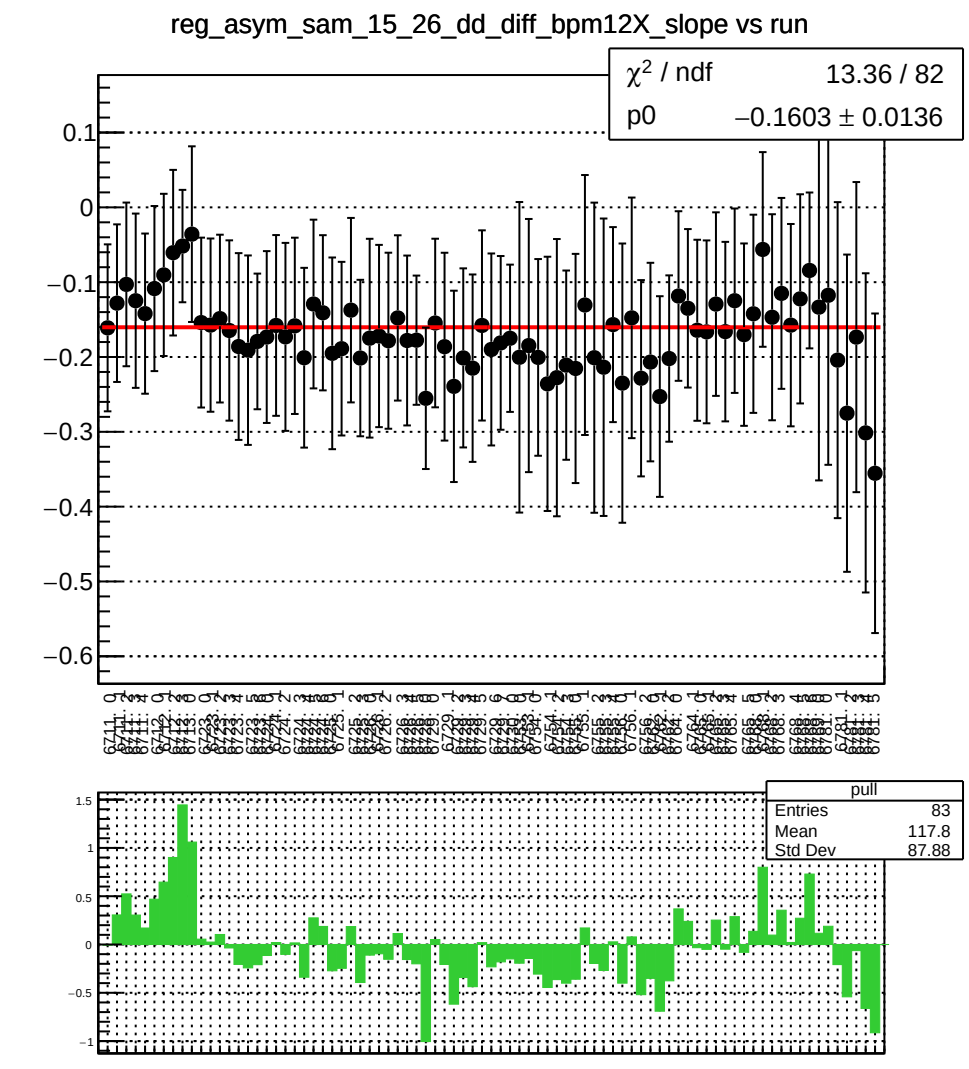

pull1D
Entries 83
Mean 0.1318
Std Dev 0.7158

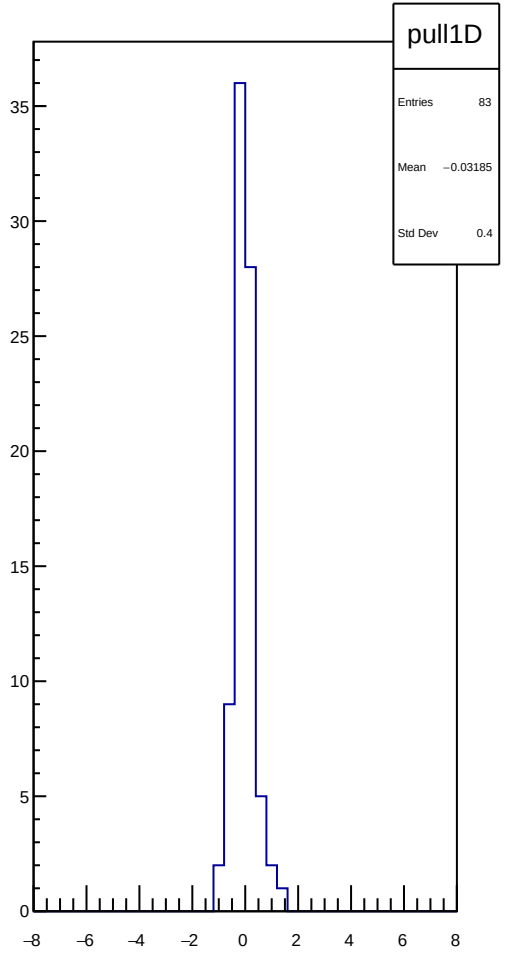

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.71 / 82
p0 −3.123 ± 0.1938
pull
Entries 83
Mean −446.7
Std Dev 481.8

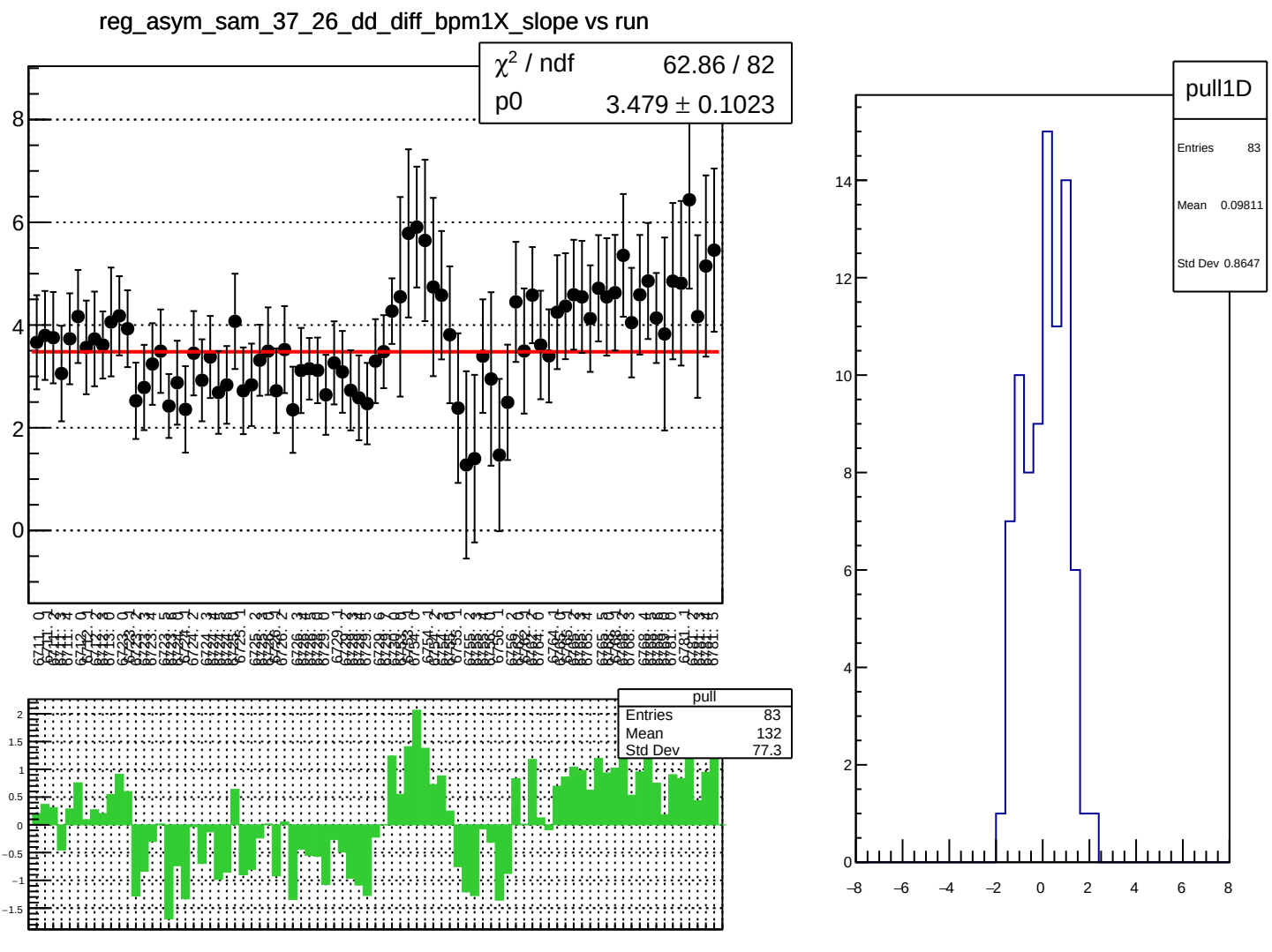

pull1D
Entries 83
Mean 0.01432
Std Dev 0.7088

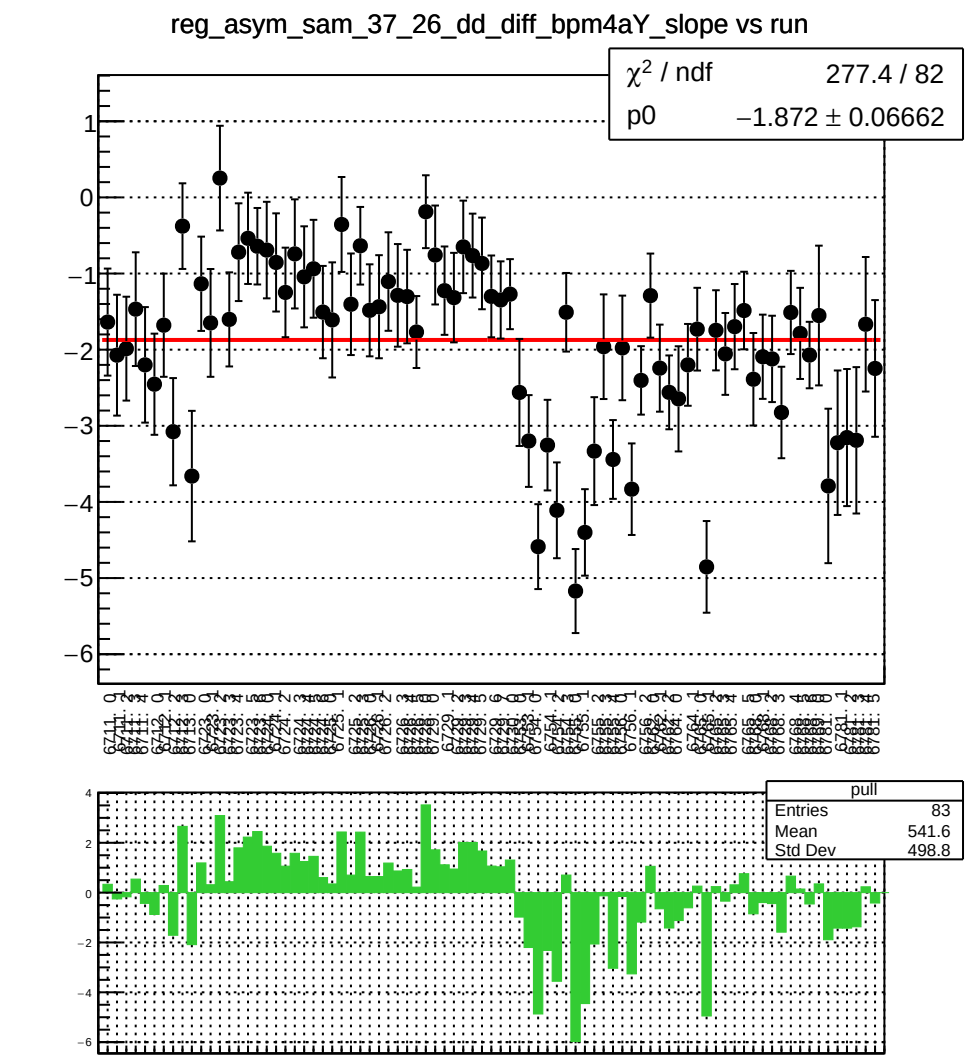

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 87.24 / 82
p0 12.47 ± 0.29
pull
Entries 83
Mean 130.1
Std Dev 75.87
pull1D
Entries 83
Mean 0.1504
Std Dev 1.014

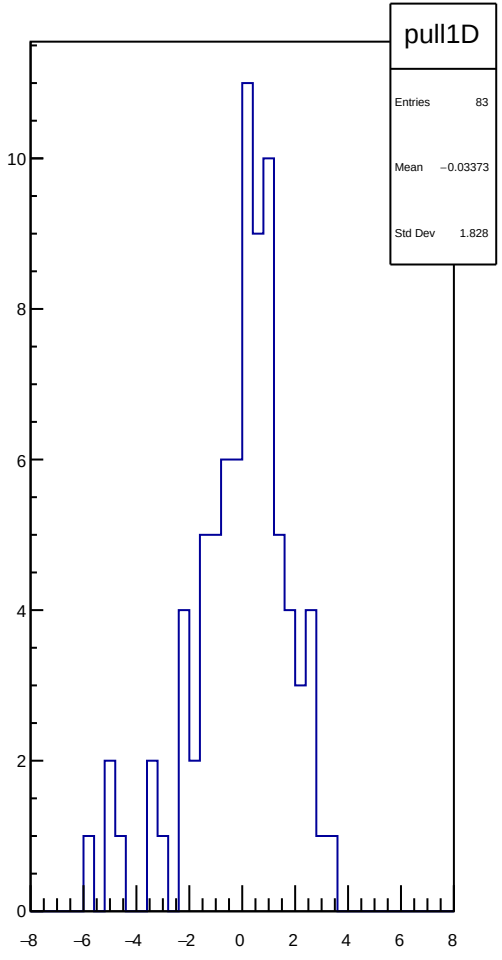

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 176.1 / 82
p0 33.99 ± 0.2405
pull
Entries 83
Mean 278.5
Std Dev 232.8
pull1D
Entries 83
Mean 0.1068
Std Dev 1.453

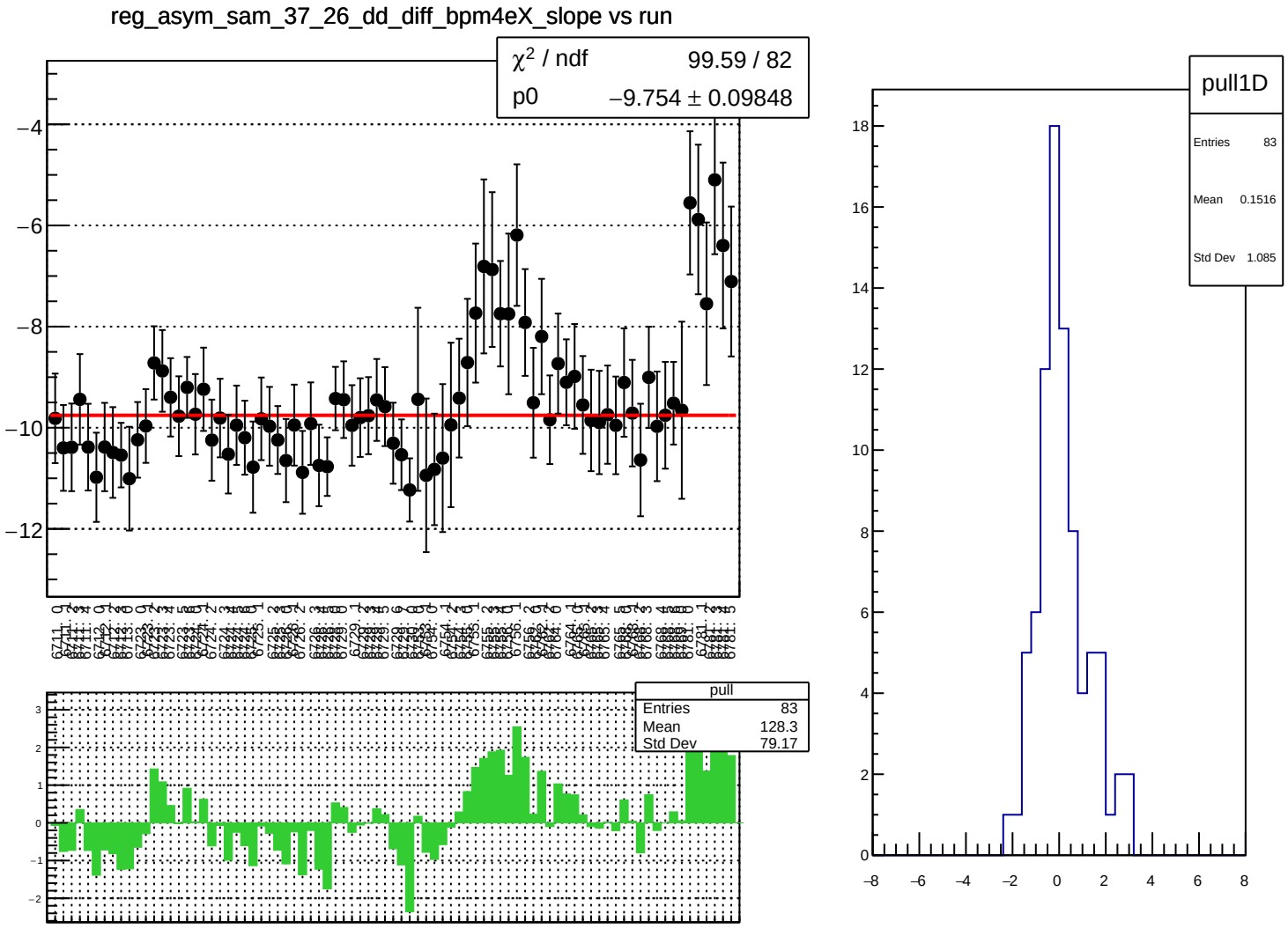

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 13.36 / 82
p0 −0.1603 ± 0.0136
pull
Entries 83
Mean 117.8
Std Dev 87.88

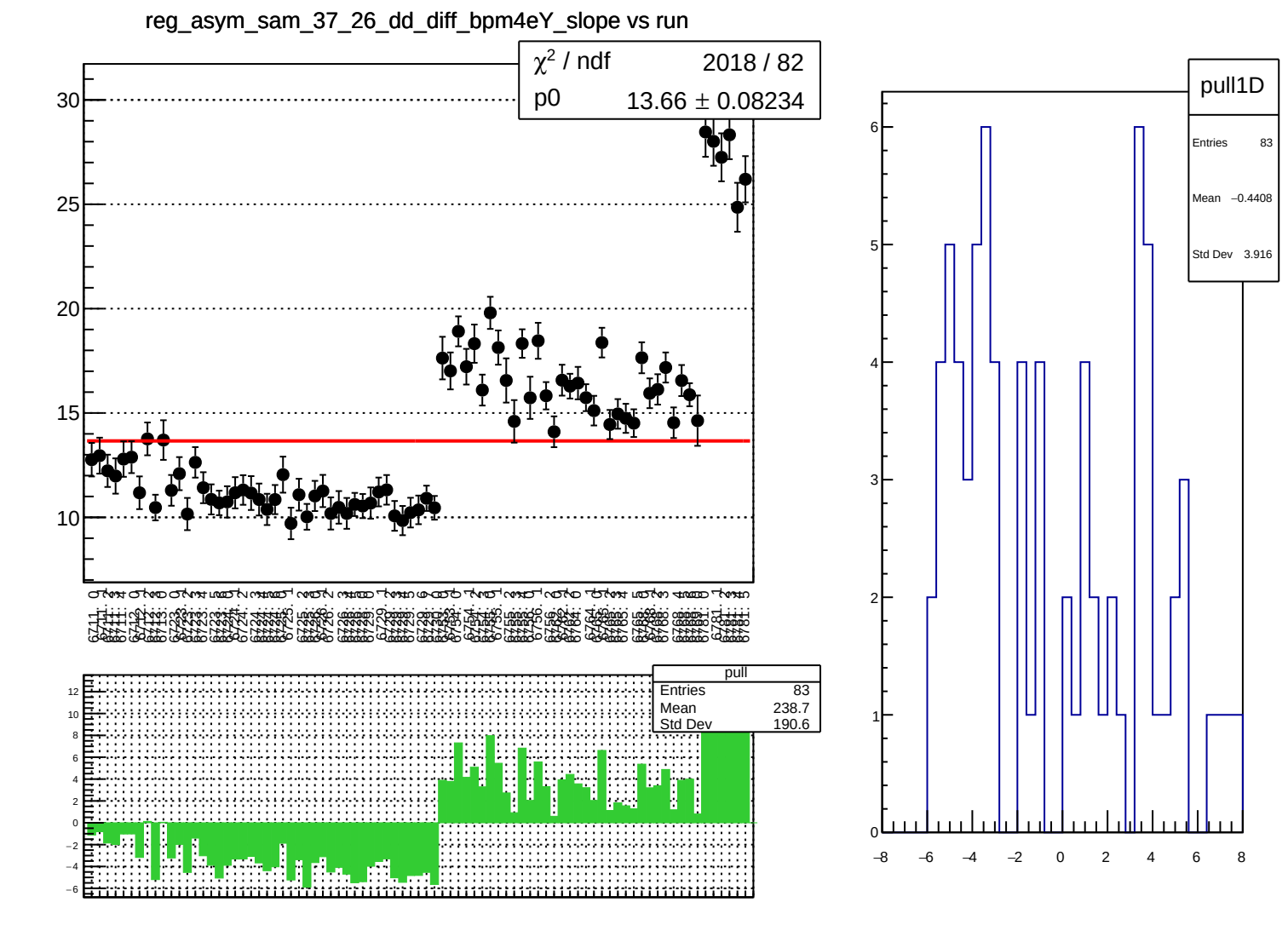

pull1D
Entries 83
Mean −0.03185
Std Dev 0.4

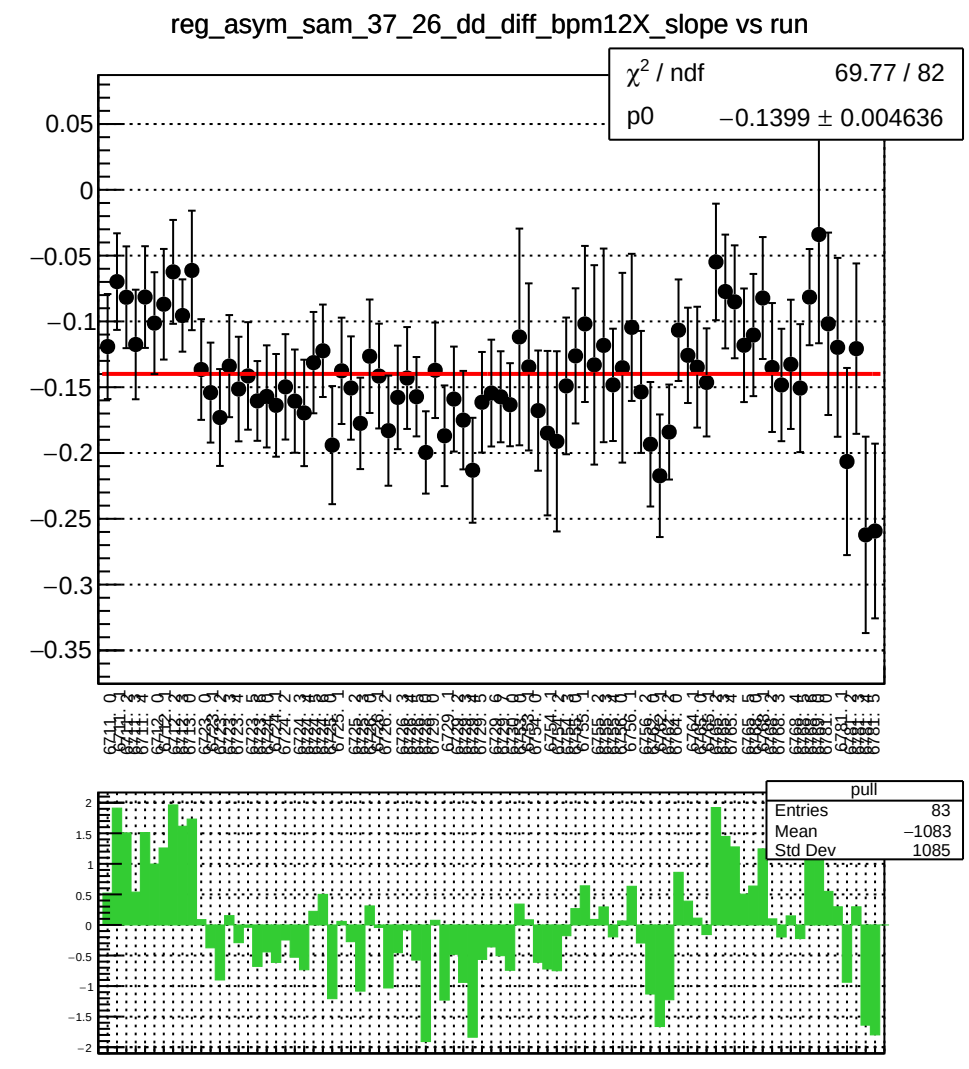

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 62.86 / 82
p0 3.479 ± 0.1023
pull
Entries 83
Mean 132
Std Dev 77.3
pull1D
Entries 83
Mean 0.09811
Std Dev 0.8647

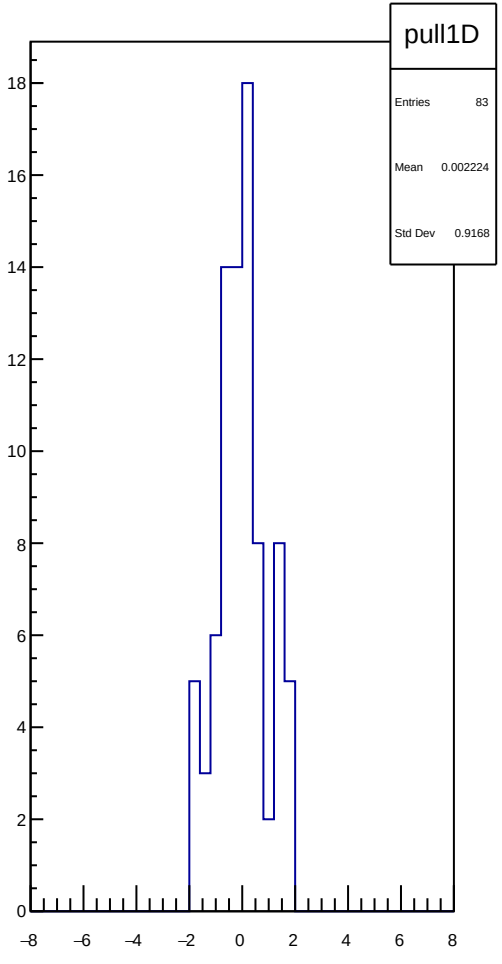

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 277.4 / 82
p0 −1.872 ± 0.06662
pull
Entries 83
Mean 541.6
Std Dev 498.8

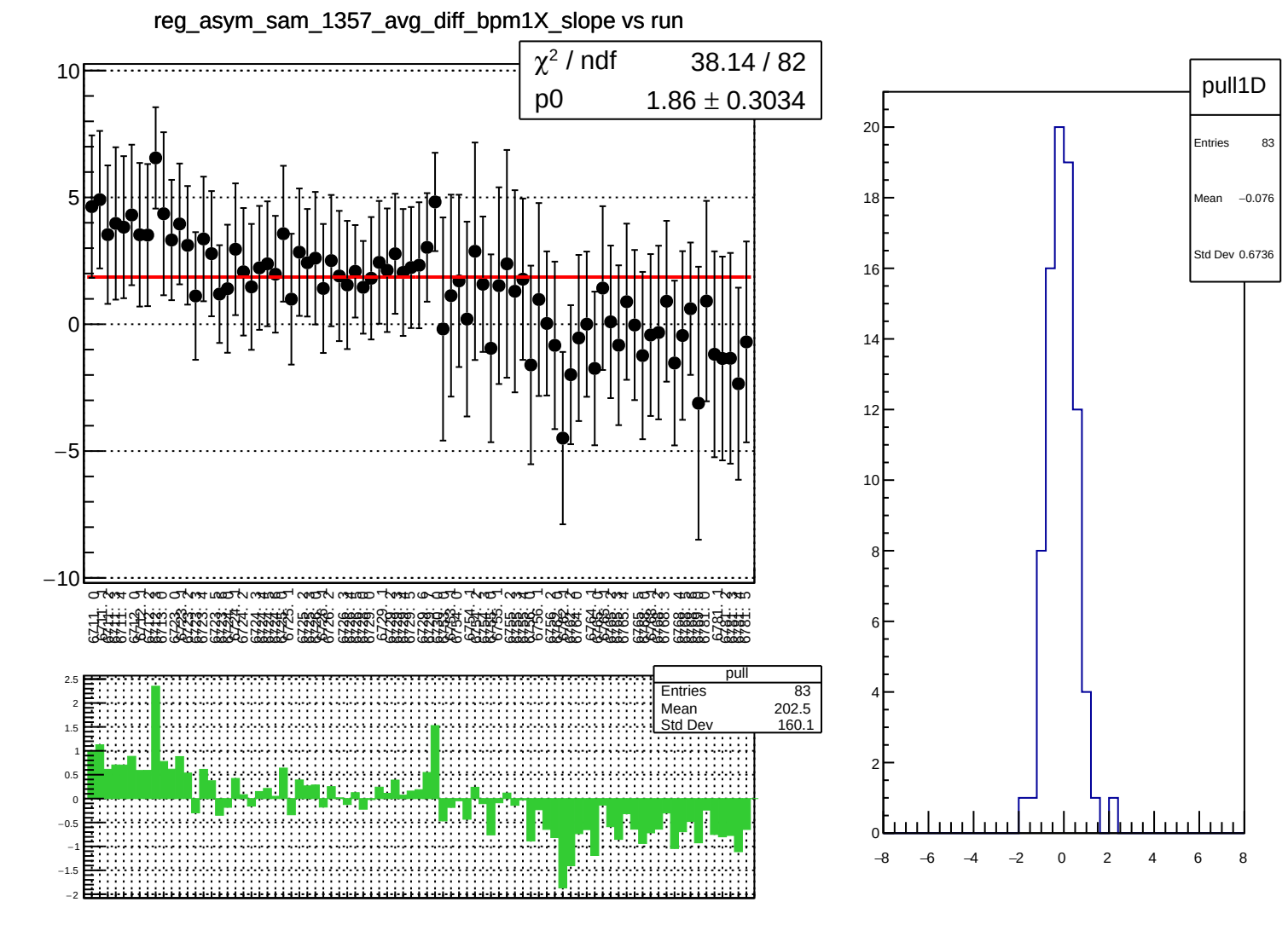

pull1D
Entries 83
Mean −0.03373
Std Dev 1.828

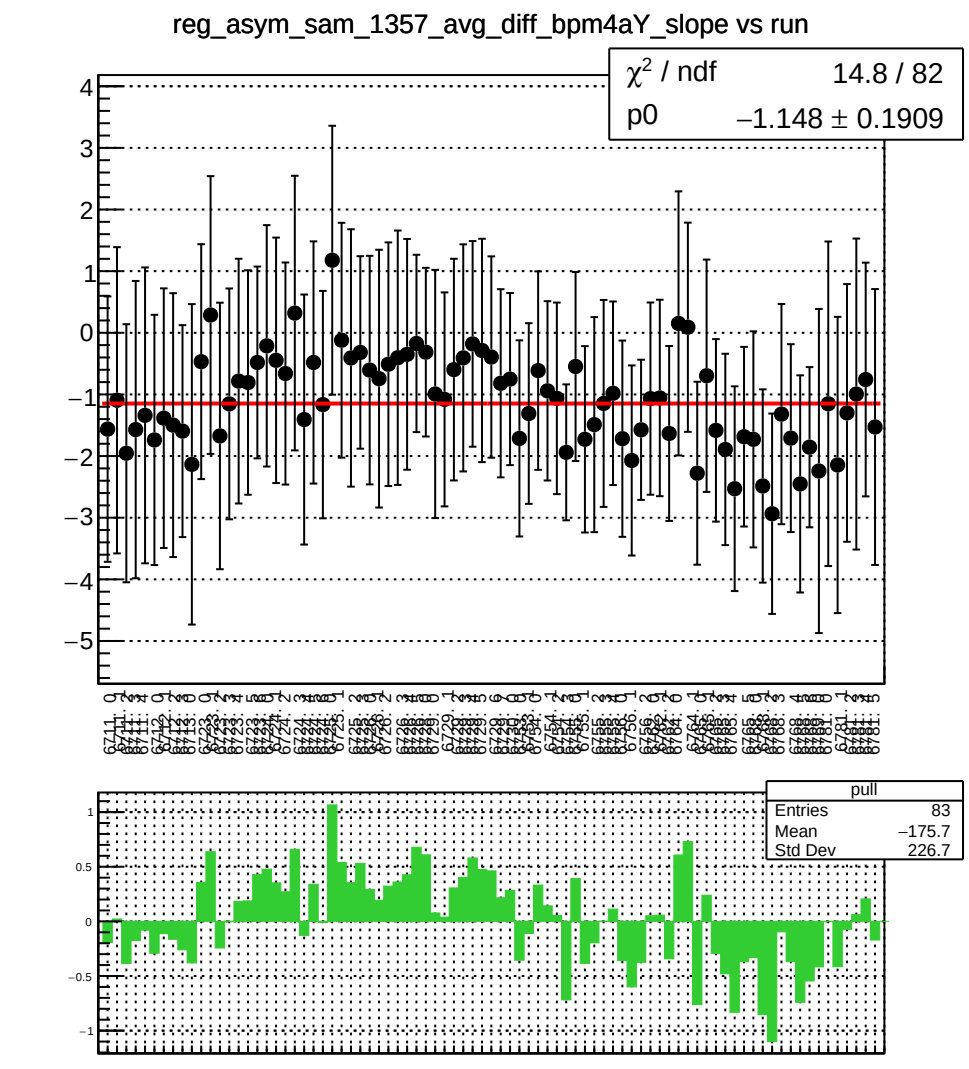

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 99.59 / 82
p0 −9.754 ± 0.09848
pull
Entries 83
Mean 128.3
Std Dev 79.17
pull1D
Entries 83
Mean 0.1516
Std Dev 1.085

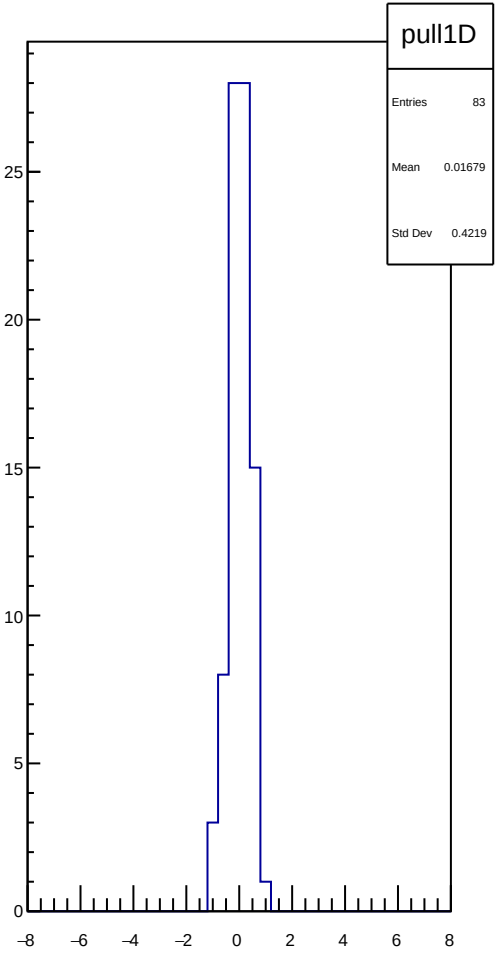

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2018 / 82
p0 13.66 ± 0.08234
pull
Entries 83
Mean 238.7
Std Dev 190.6
pull1D
Entries 83
Mean −0.4408
Std Dev 3.916

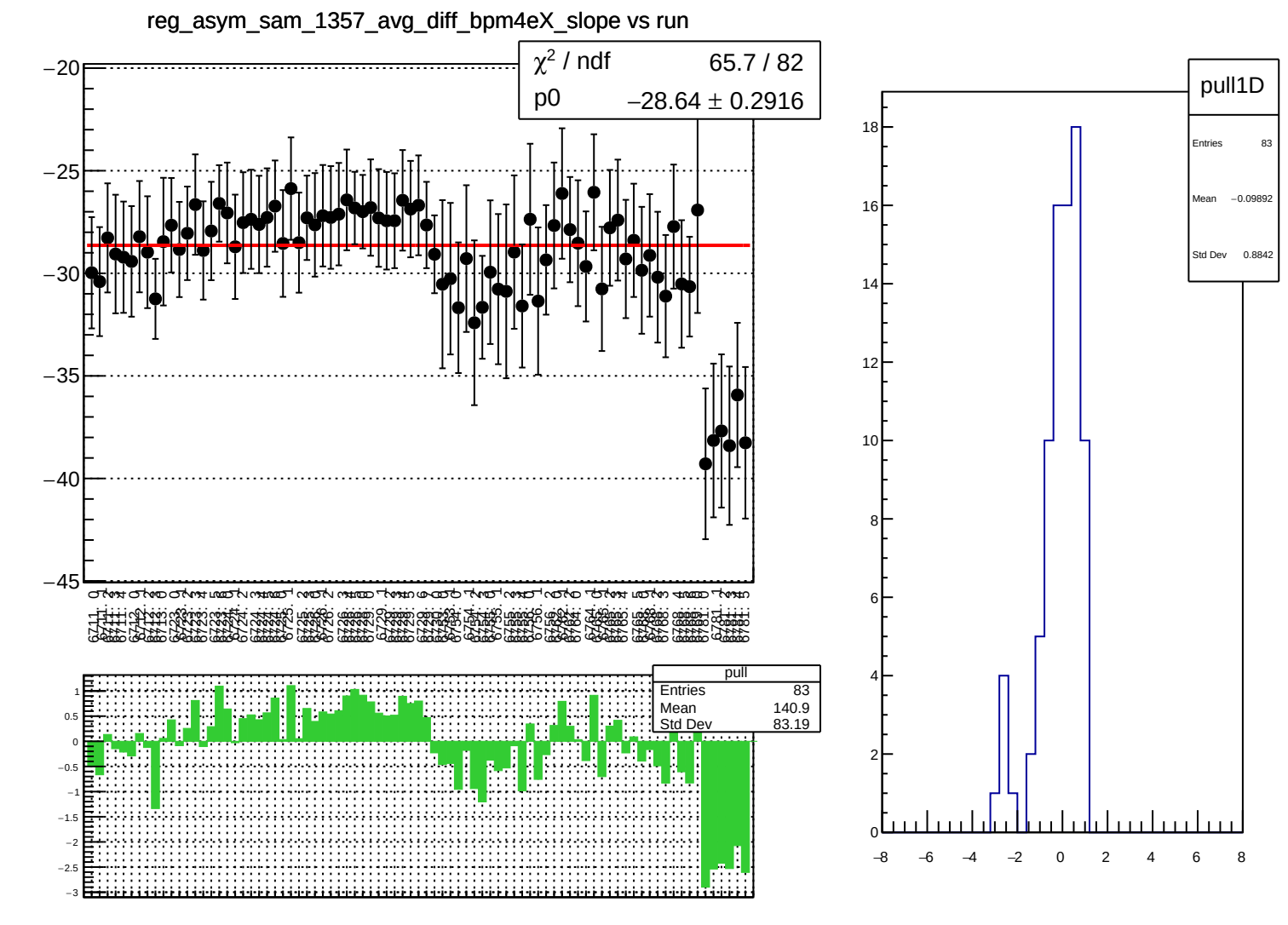

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 69.77 / 82
p0 −0.1399 ± 0.004636
pull
Entries 83
Mean −1083
Std Dev 1085

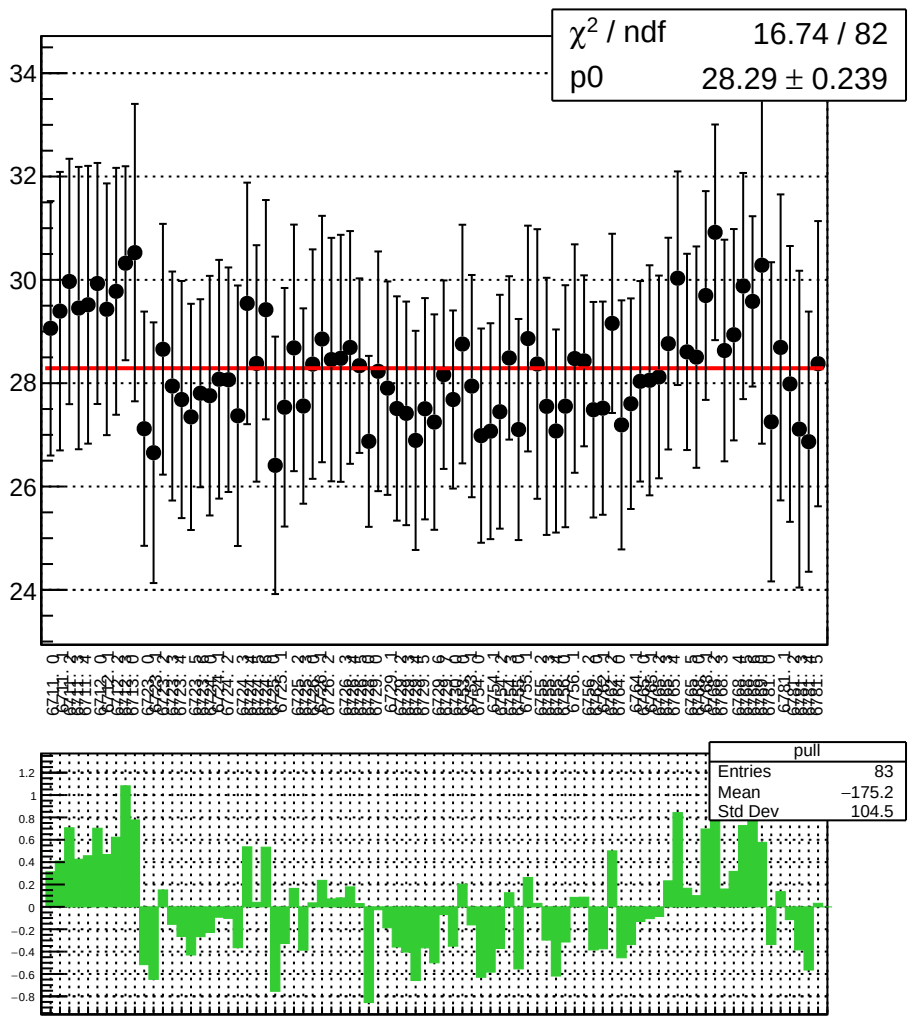

pull1D
Entries 83
Mean 0.002224
Std Dev 0.9168

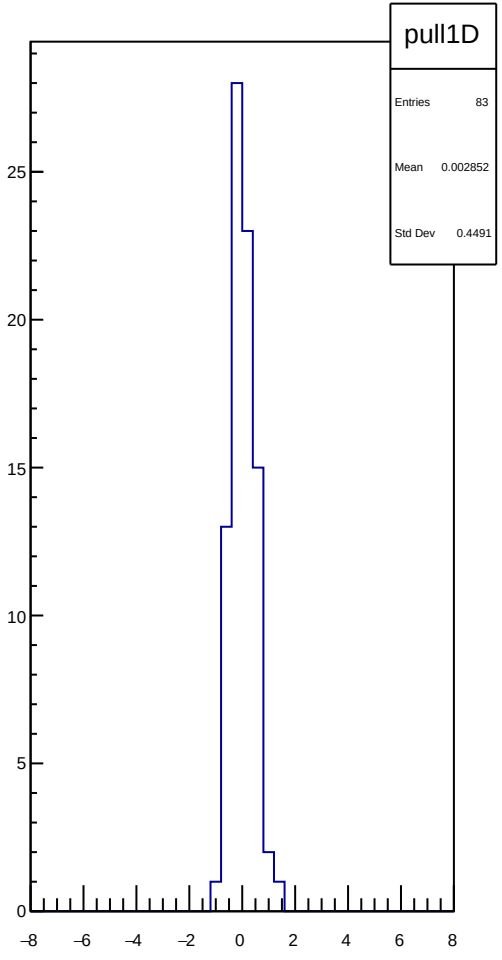

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 38.14 / 82
p0 1.86 ± 0.3034
pull
Entries 83
Mean 202.5
Std Dev 160.1
pull1D
Entries 83
Mean −0.076
Std Dev 0.6736

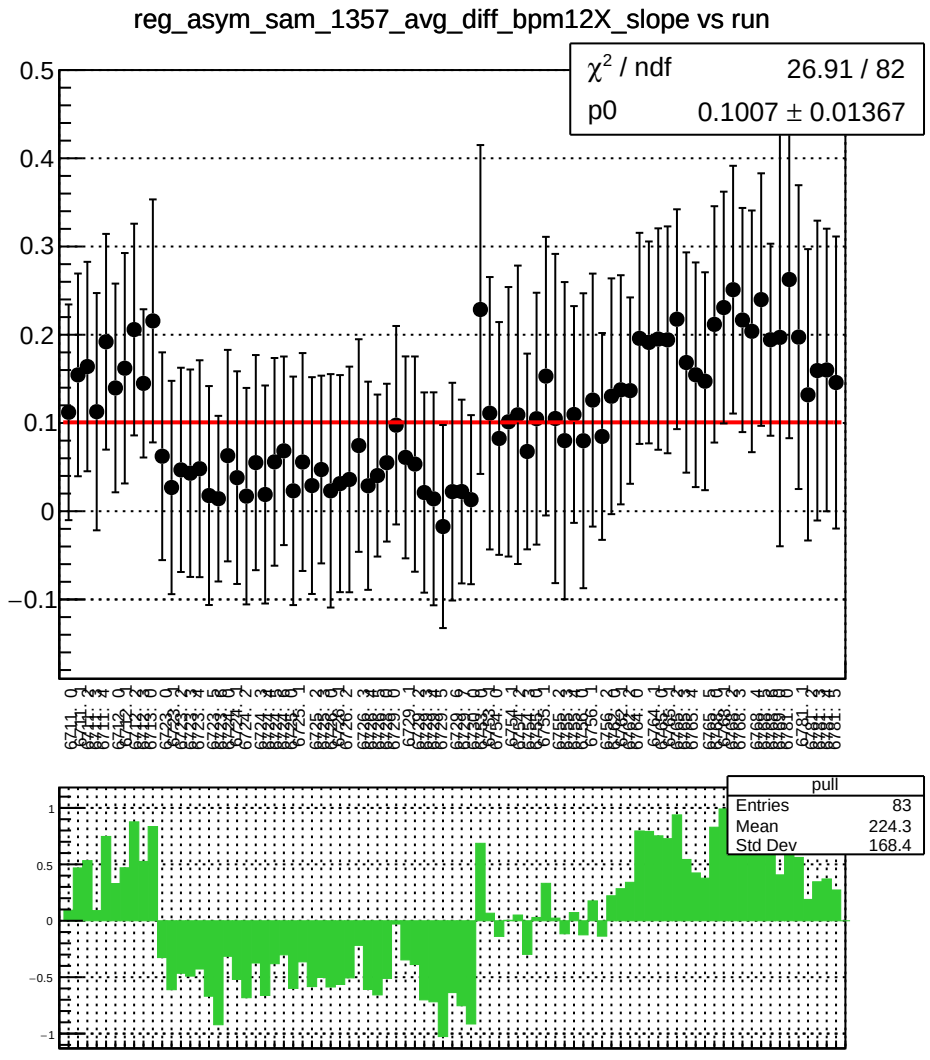

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.8 / 82
p0 −1.148 ± 0.1909
pull
Entries 83
Mean −175.7
Std Dev 226.7

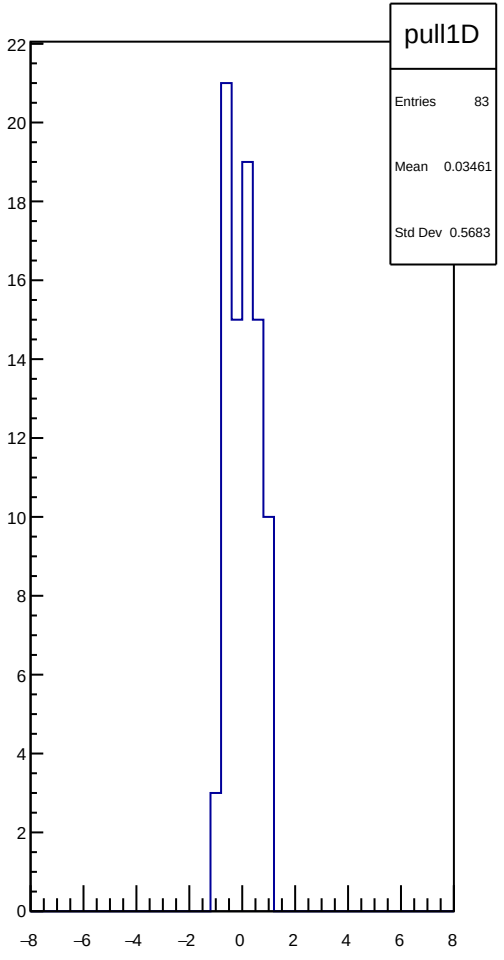

pull1D
Entries 83
Mean 0.01679
Std Dev 0.4219

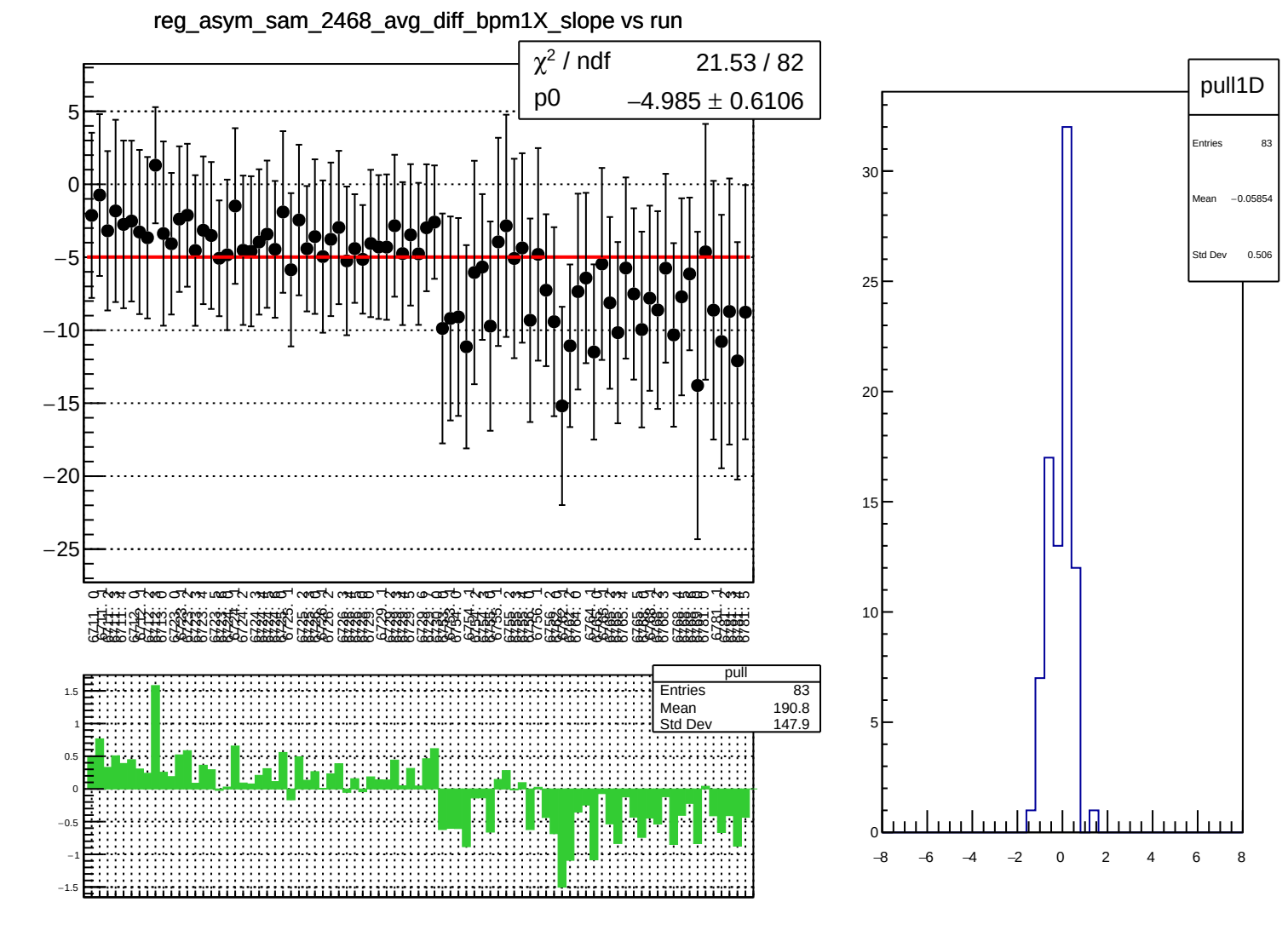

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 65.7 / 82
p0 −28.64 ± 0.2916
pull
Entries 83
Mean 140.9
Std Dev 83.19
pull1D
Entries 83
Mean −0.09892
Std Dev 0.8842

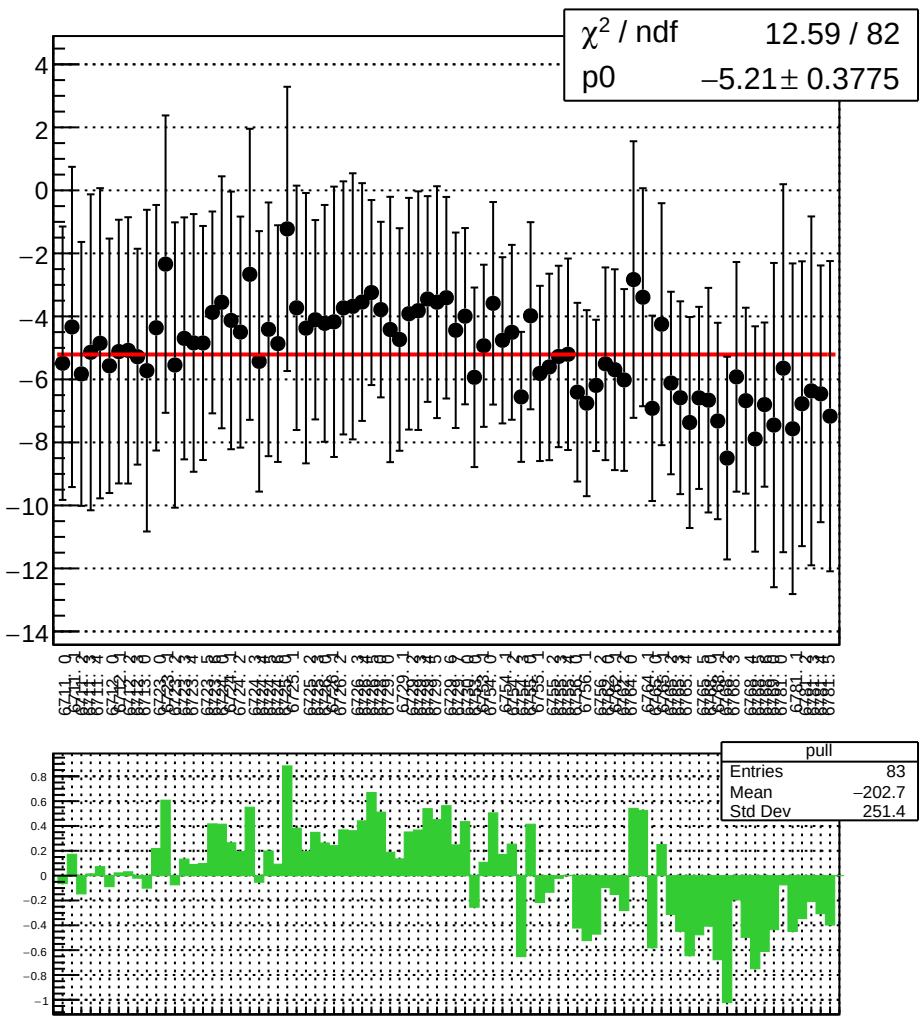

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.74 / 82
p0 28.29 ± 0.239
pull
Entries 83
Mean −175.2
Std Dev 104.5

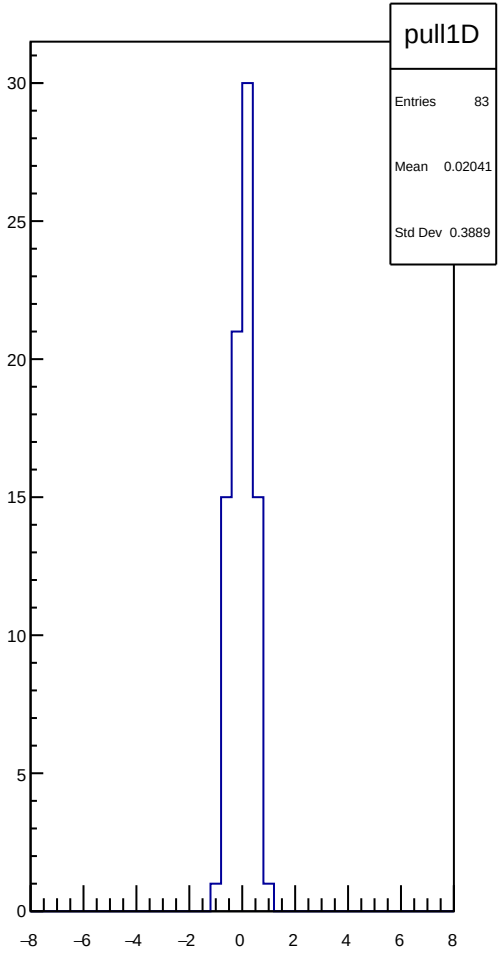

pull1D
Entries 83
Mean 0.002852
Std Dev 0.4491

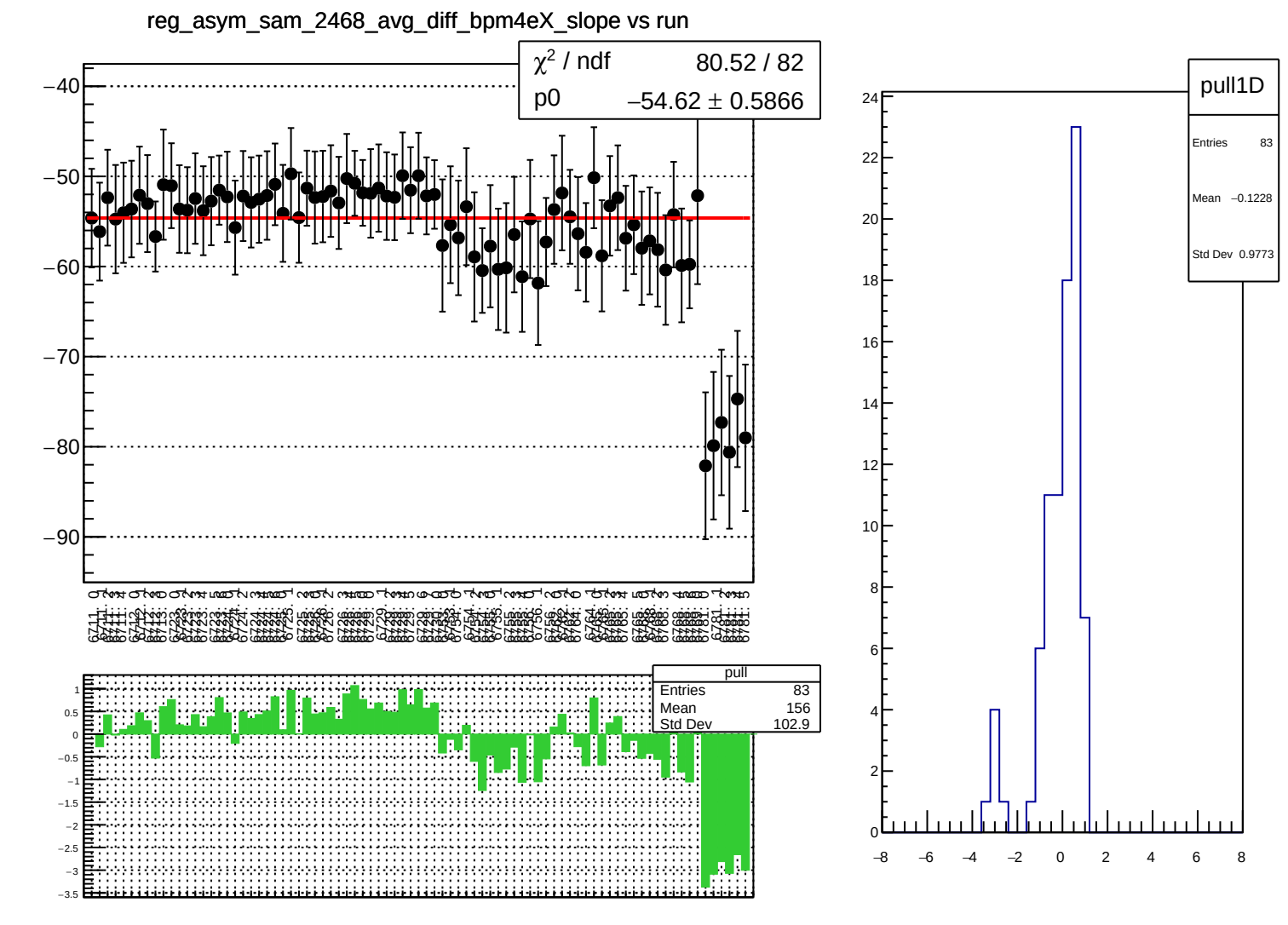

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 26.91 / 82
p0 0.1007 ± 0.01367
pull
Entries 83
Mean 224.3
Std Dev 168.4

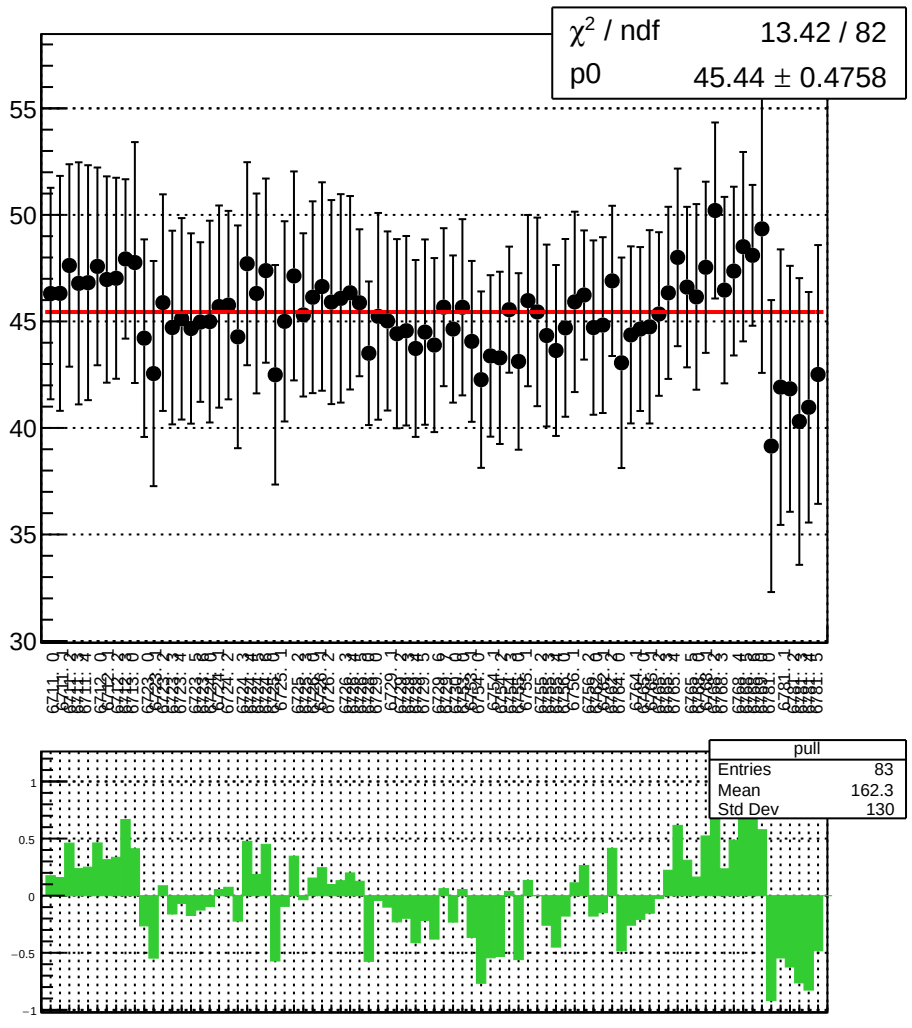

pull1D
Entries 83
Mean 0.03461
Std Dev 0.5683

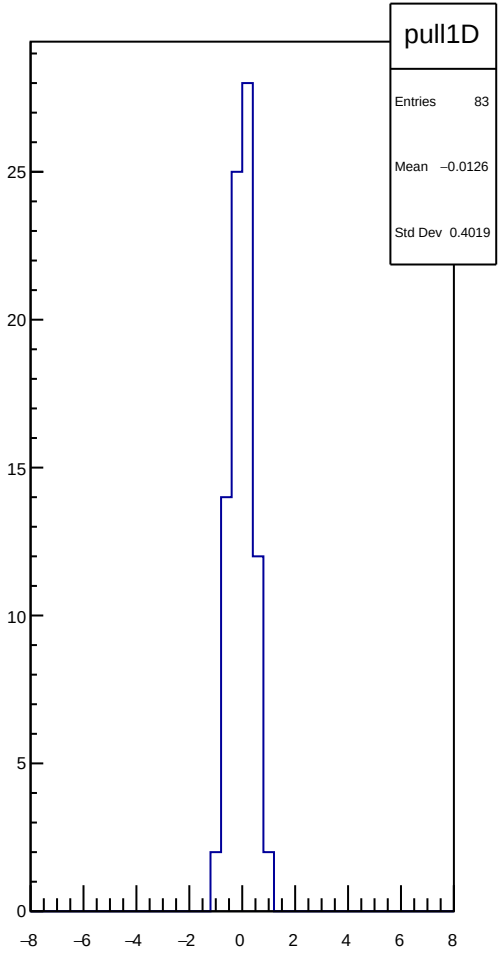

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 21.53 / 82
p0 −4.985 ± 0.6106
pull
Entries 83
Mean 190.8
Std Dev 147.9
pull1D
Entries 83
Mean −0.05854
Std Dev 0.506

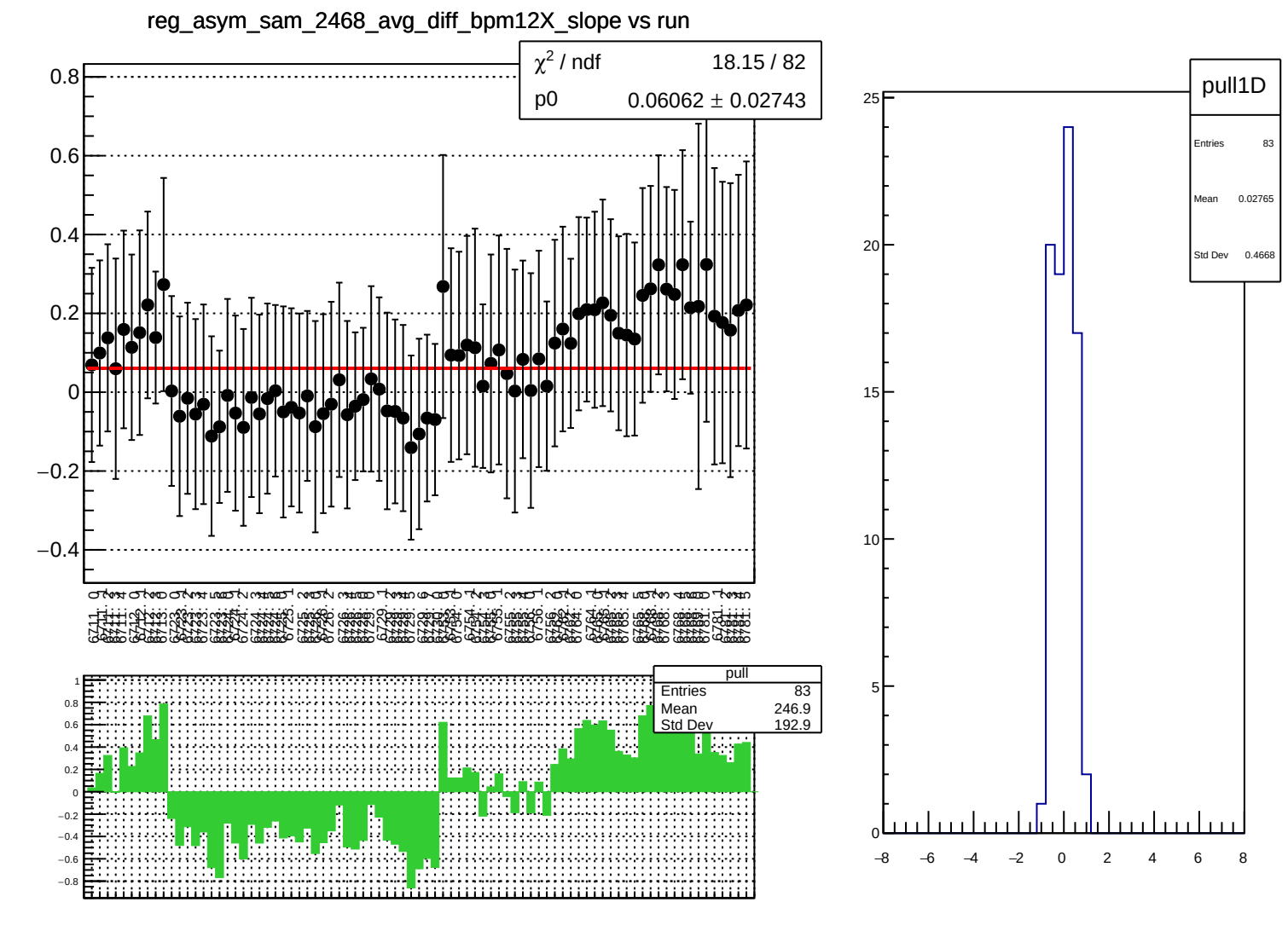

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.59 / 82
p0 −5.21 ± 0.3775
pull
Entries 83
Mean −202.7
Std Dev 251.4

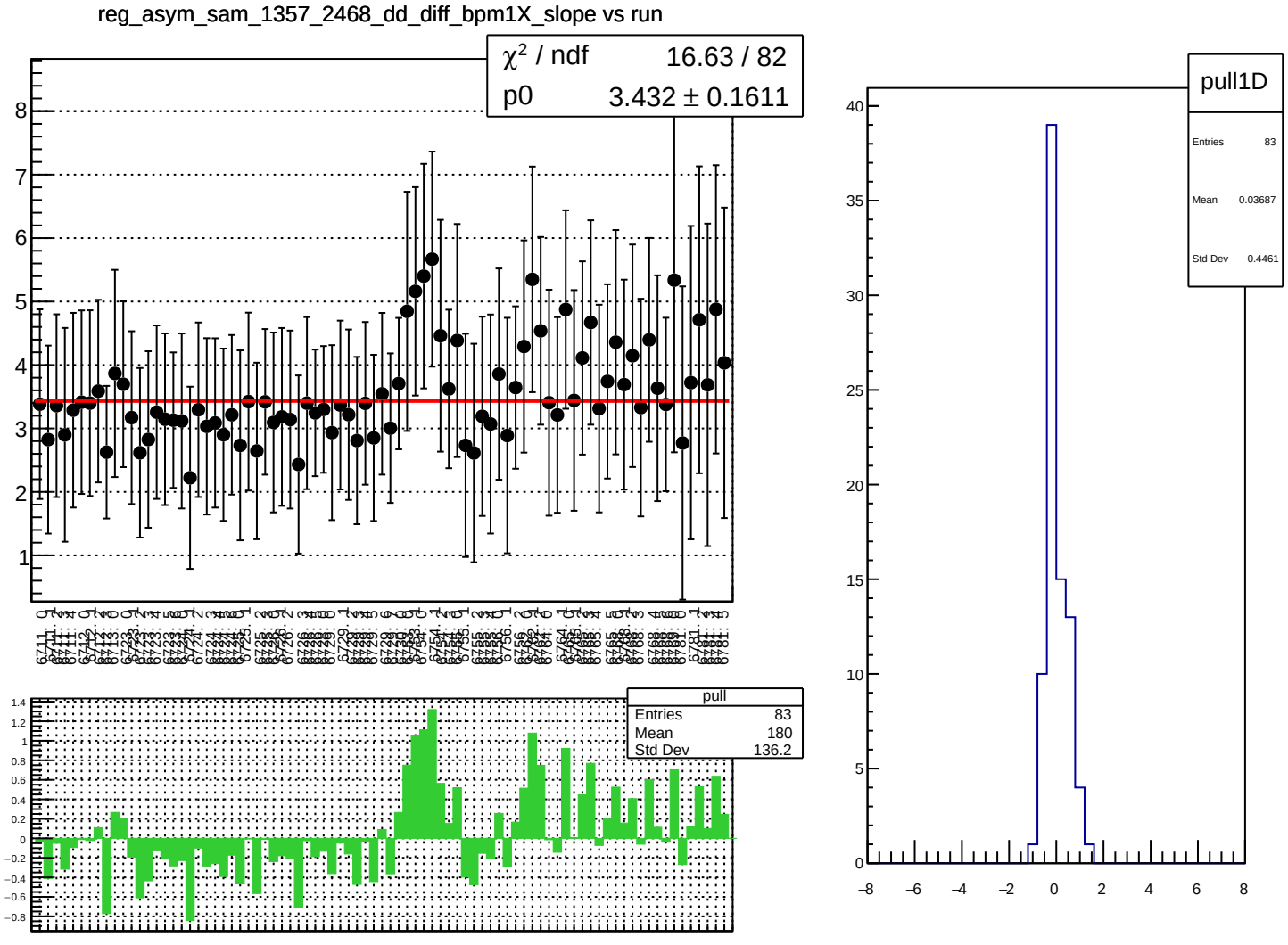

pull1D
Entries 83
Mean 0.02041
Std Dev 0.3889

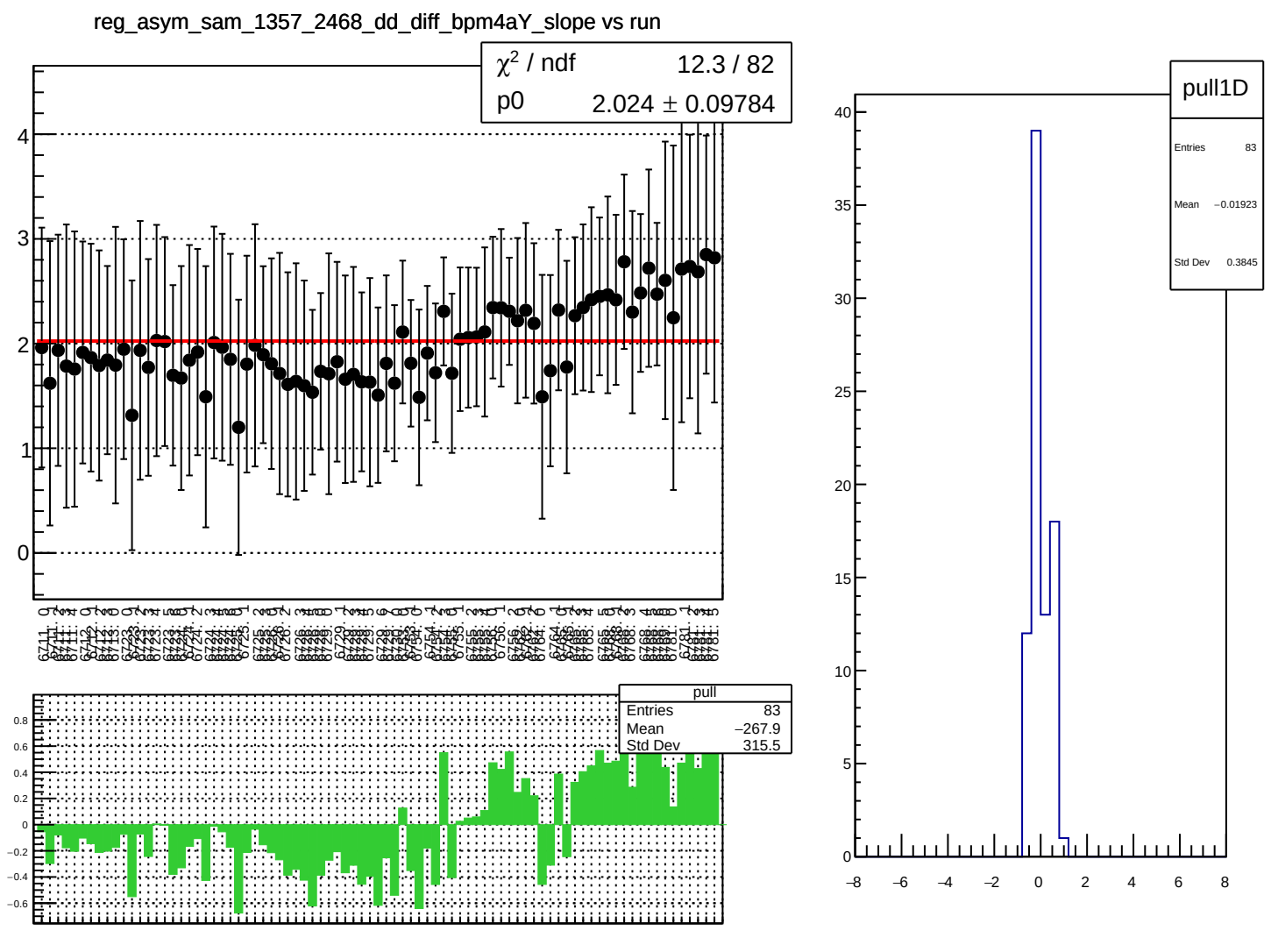

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.52 / 82
p0 −54.62 ± 0.5866
pull
Entries 83
Mean 156
Std Dev 102.9
pull1D
Entries 83
Mean −0.1228
Std Dev 0.9773

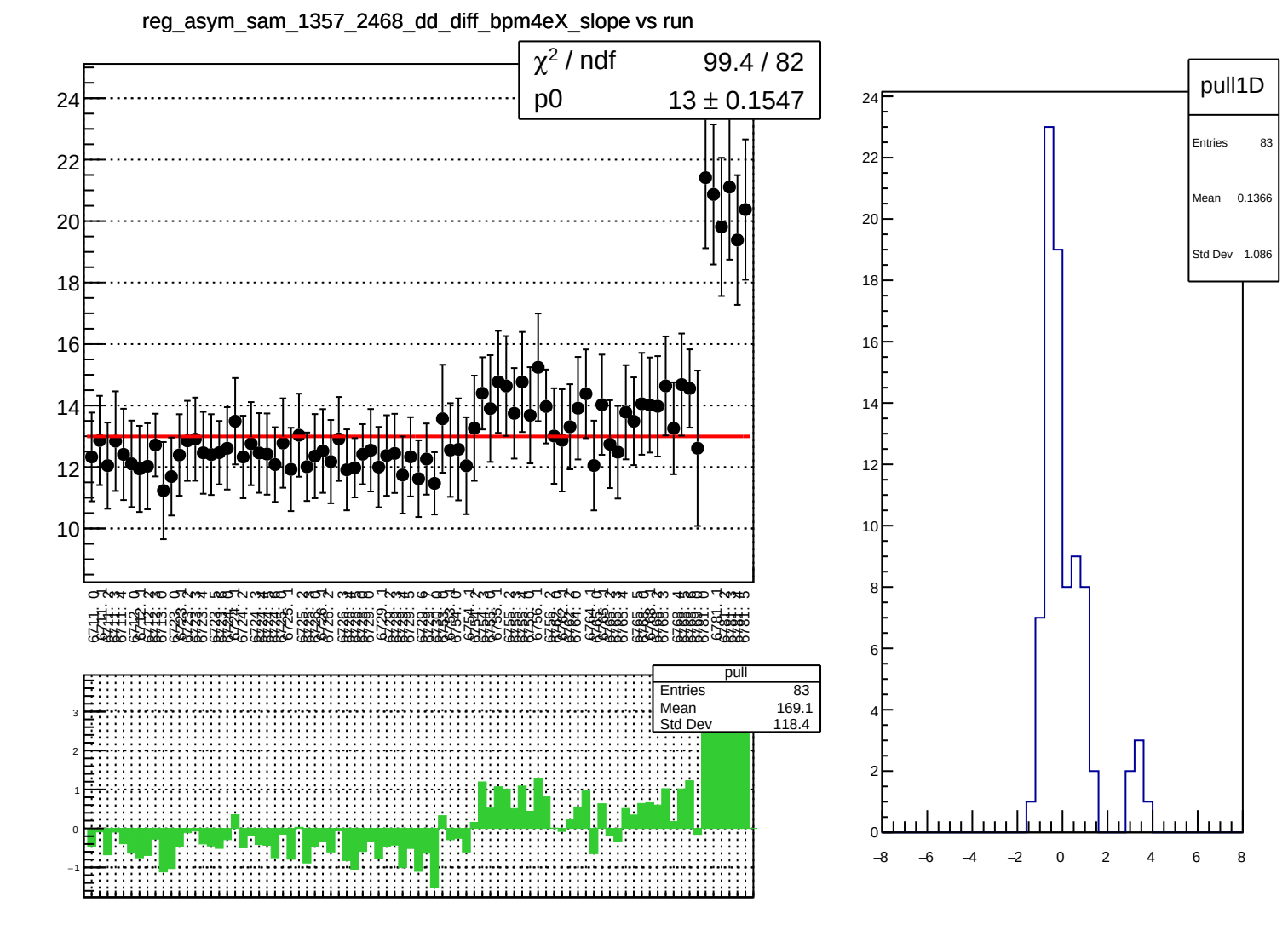

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.42 / 82
p0 45.44 ± 0.4758
pull
Entries 83
Mean 162.3
Std Dev 130

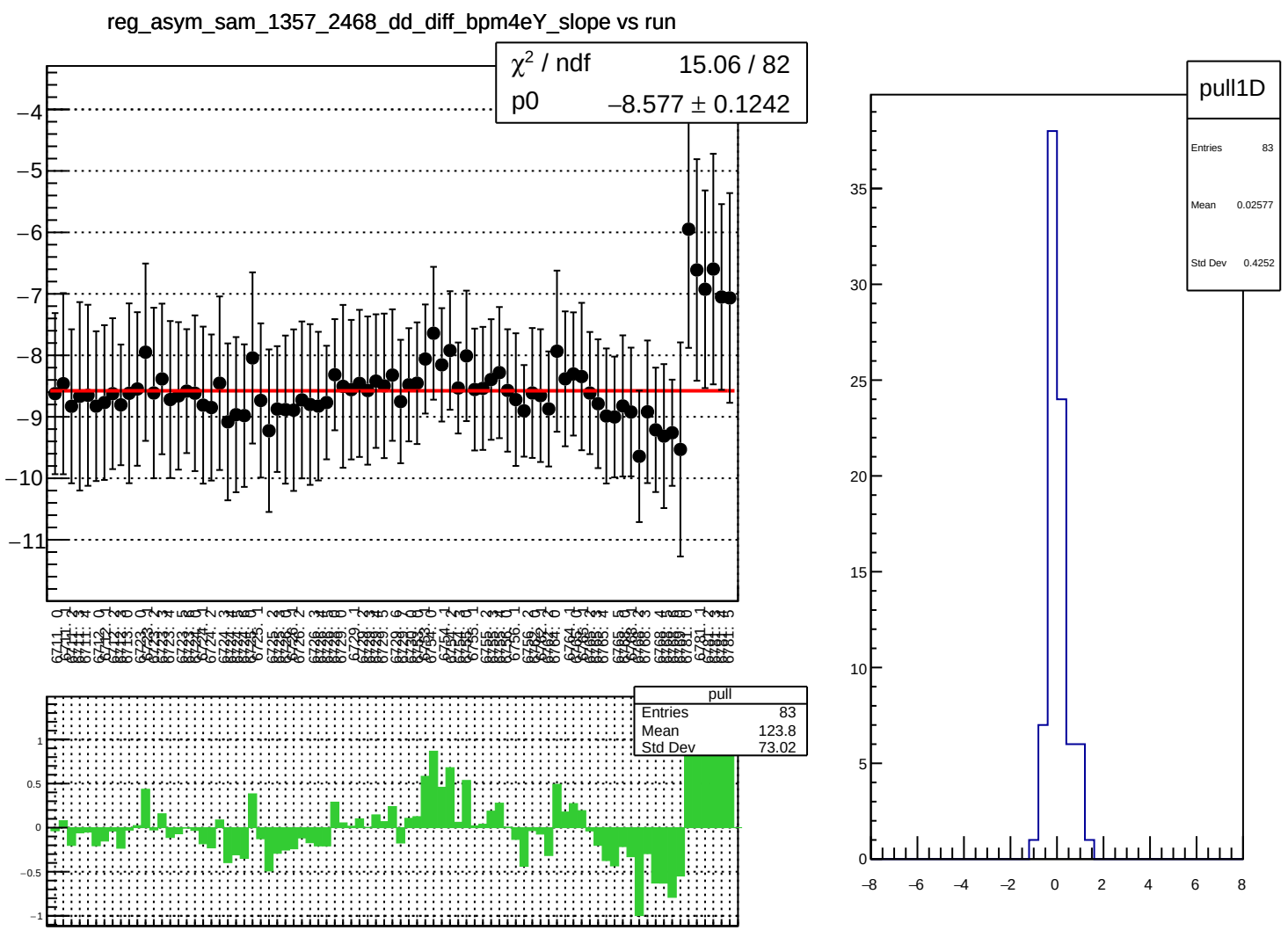

pull1D
Entries 83
Mean −0.0126
Std Dev 0.4019

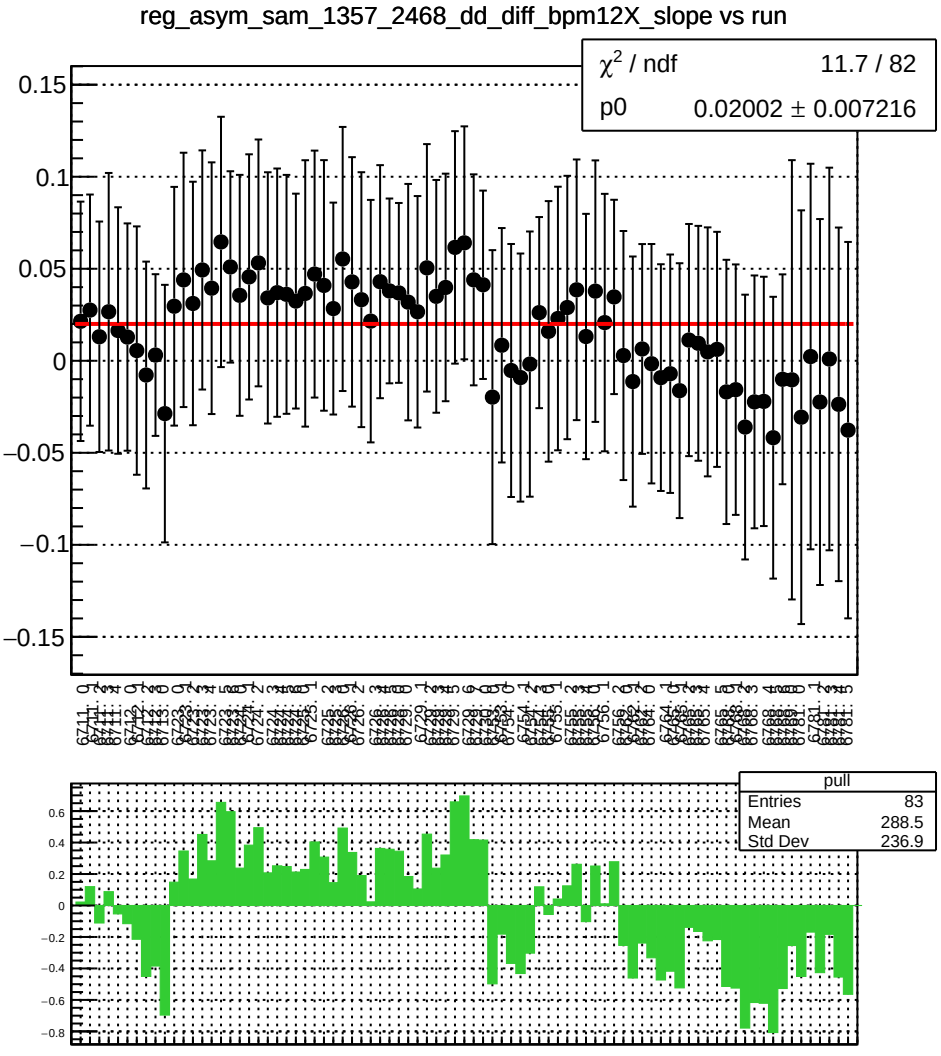

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 18.15 / 82
p0 0.06062 ± 0.02743
pull
Entries 83
Mean 246.9
Std Dev 192.9
pull1D
Entries 83
Mean 0.02765
Std Dev 0.4668

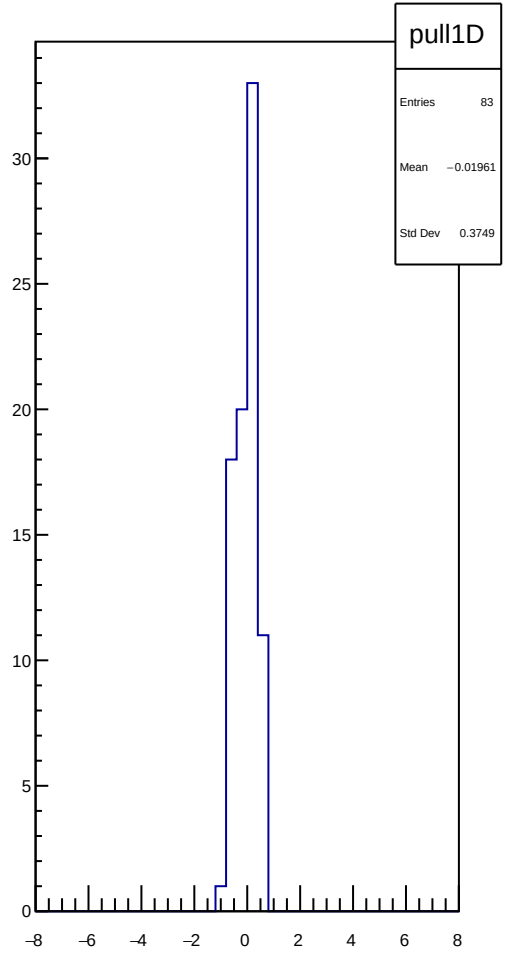

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 16.63 / 82
p0 3.432 ± 0.1611
pull
Entries 83
Mean 180
Std Dev 136.2
pull1D
Entries 83
Mean 0.03687
Std Dev 0.4461

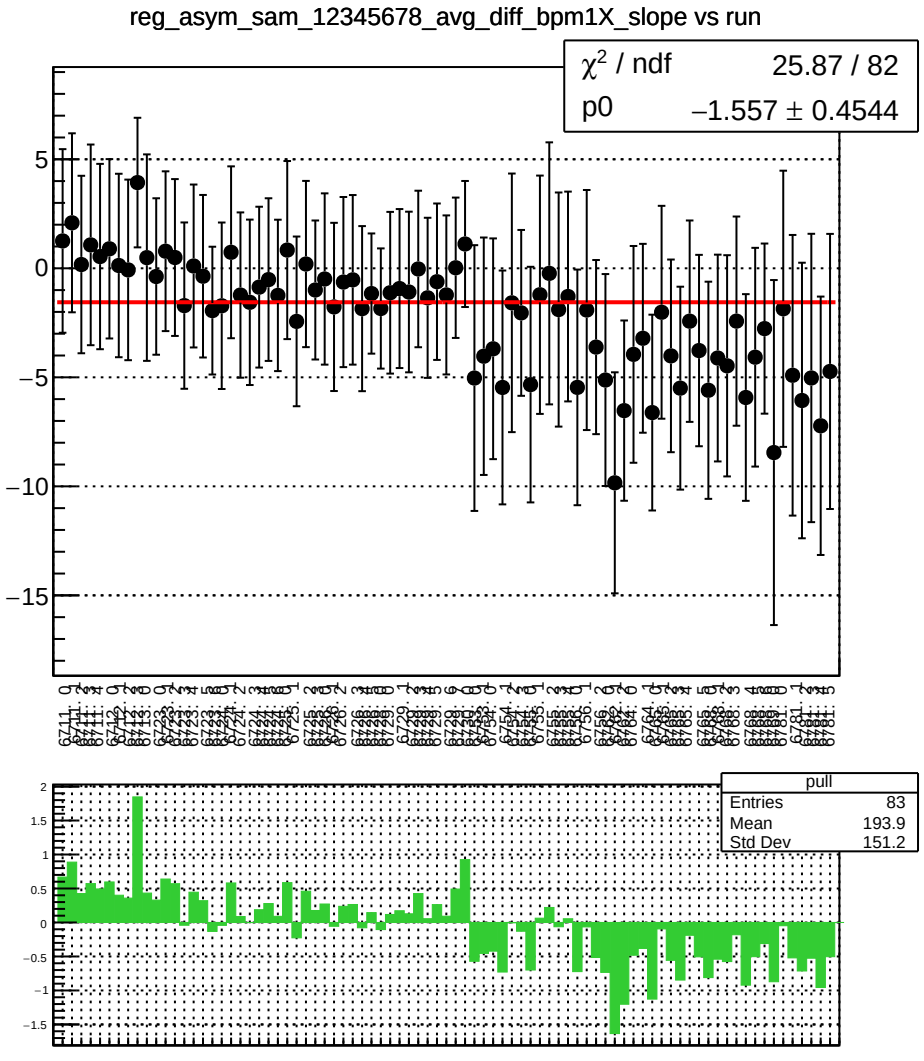

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.3 / 82
p0 2.024 ± 0.09784
pull
Entries 83
Mean −267.9
Std Dev 315.5
pull1D
Entries 83
Mean −0.01923
Std Dev 0.3845

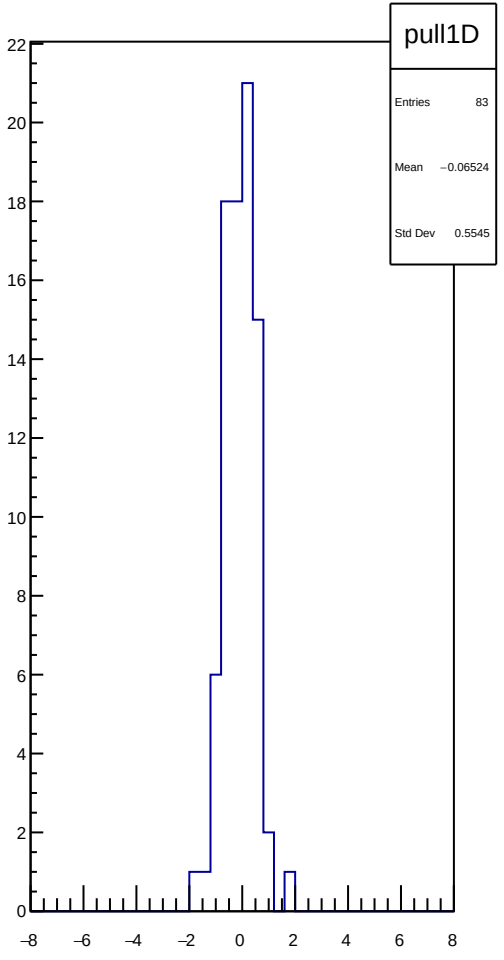

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 99.4 / 82
p0 13 ± 0.1547
pull
Entries 83
Mean 169.1
Std Dev 118.4
pull1D
Entries 83
Mean 0.1366
Std Dev 1.086

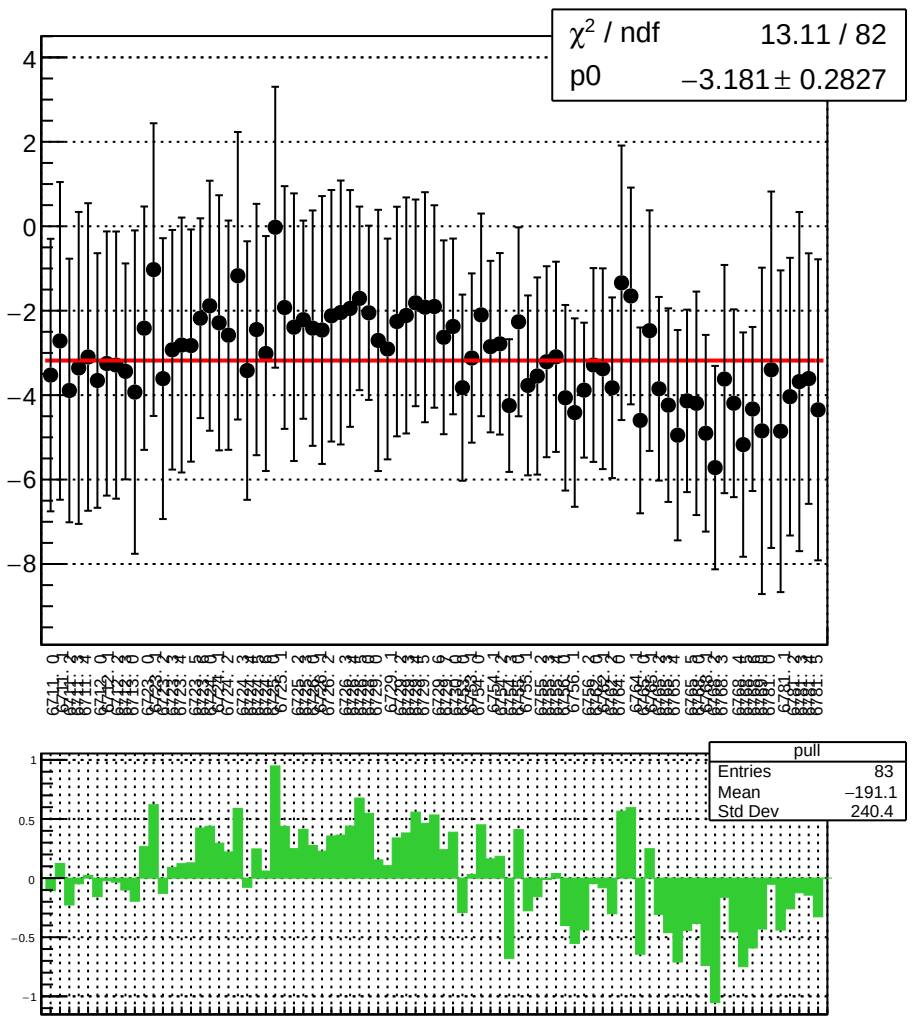

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.06 / 82
p0 −8.577 ± 0.1242
pull
Entries 83
Mean 123.8
Std Dev 73.02
pull1D
Entries 83
Mean 0.02577
Std Dev 0.4252

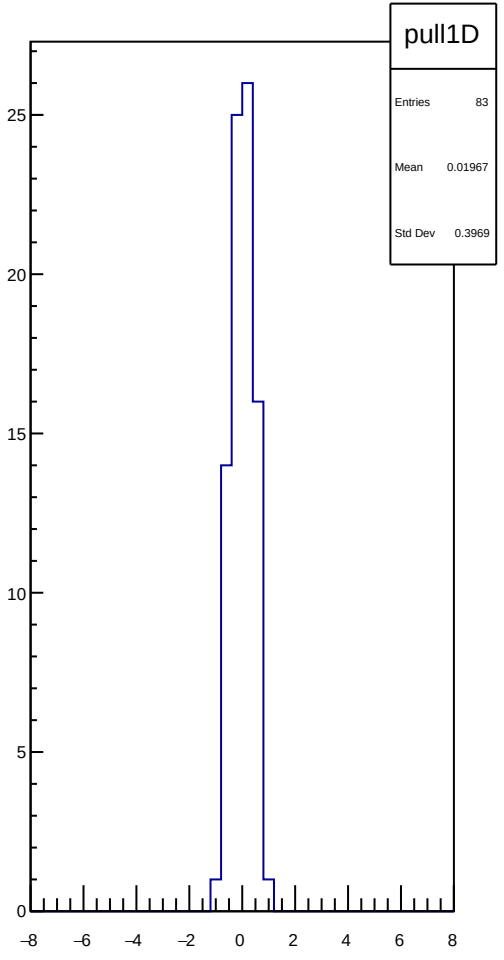

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 11.7 / 82
p0 0.02002 ± 0.007216
pull
Entries 83
Mean 288.5
Std Dev 236.9

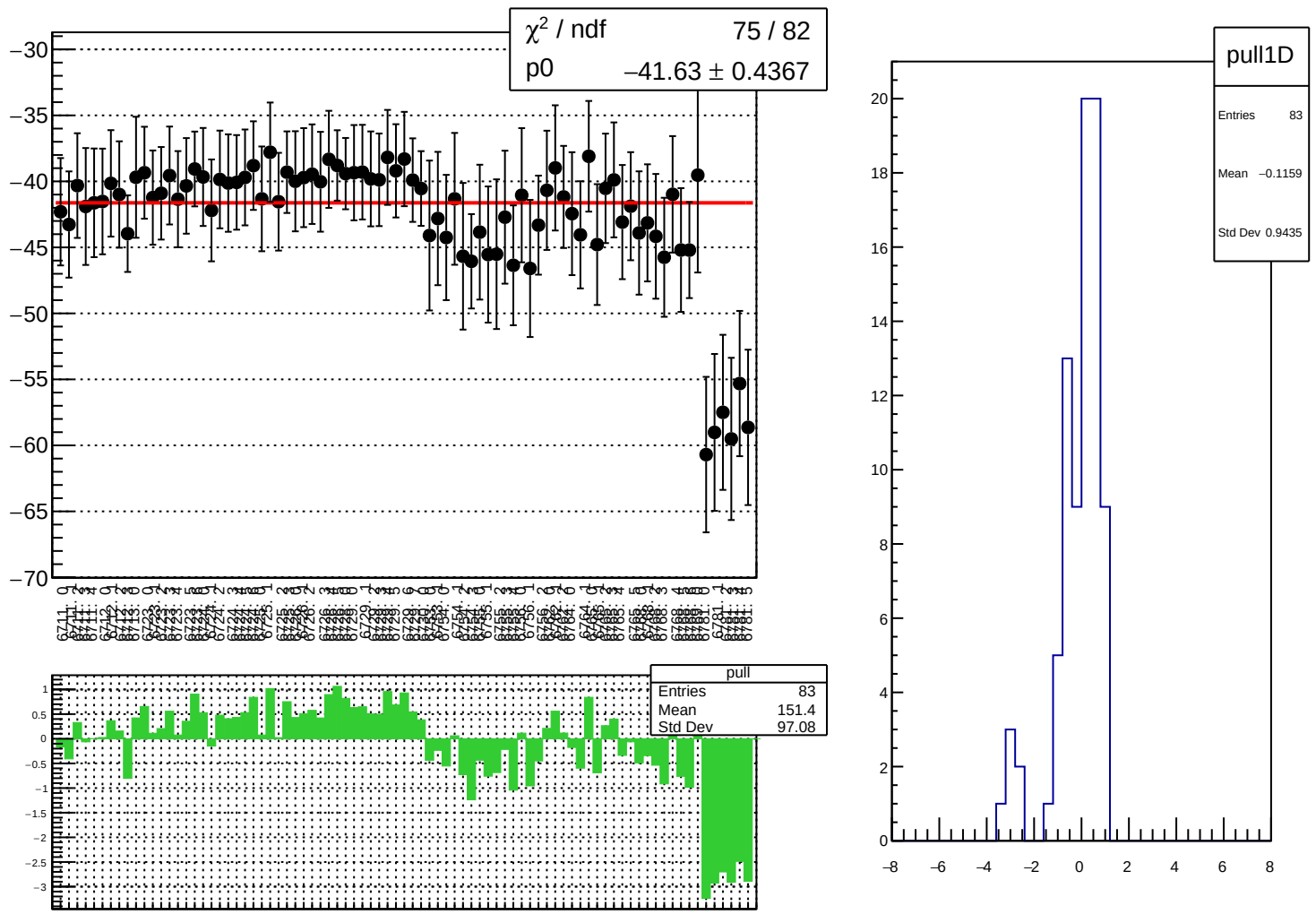

pull1D
Entries 83
Mean −0.01961
Std Dev 0.3749

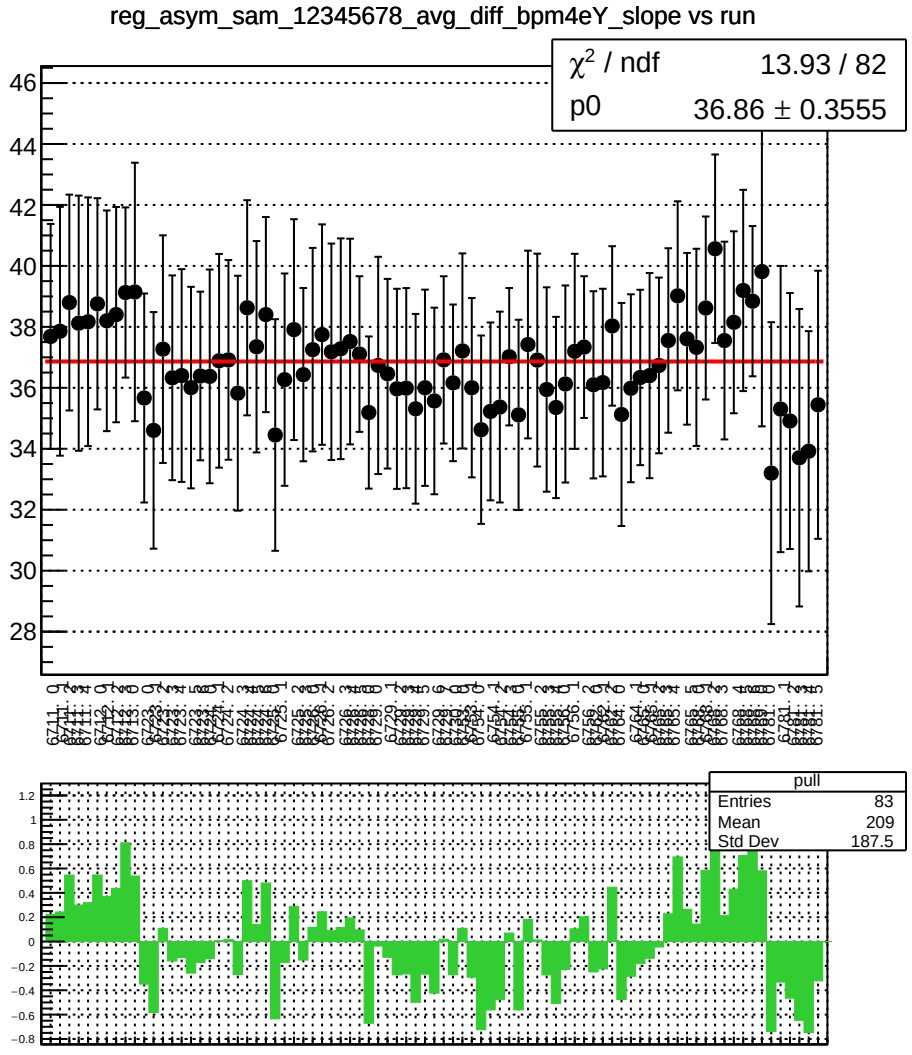

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 25.87 / 82
p0 −1.557 ± 0.4544
pull
Entries 83
Mean 193.9
Std Dev 151.2

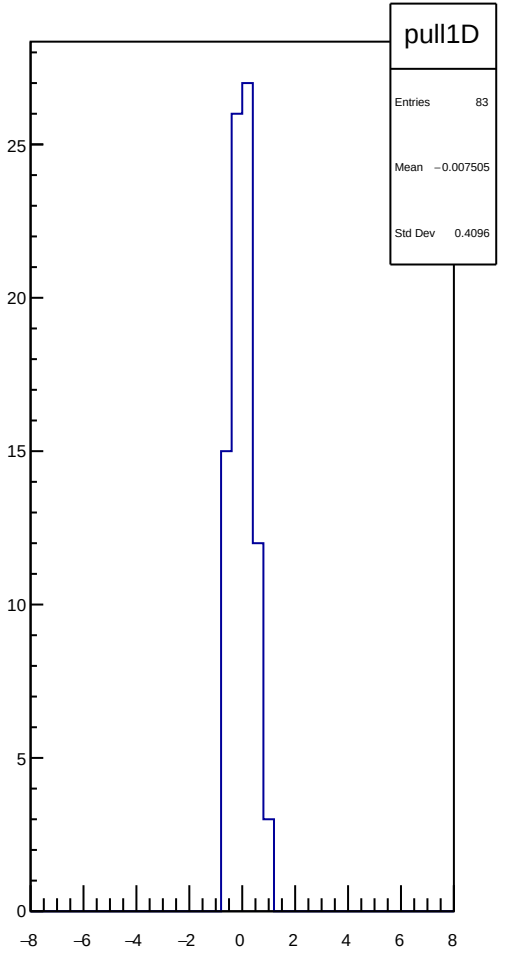

pull1D
Entries 83
Mean −0.06524
Std Dev 0.5545

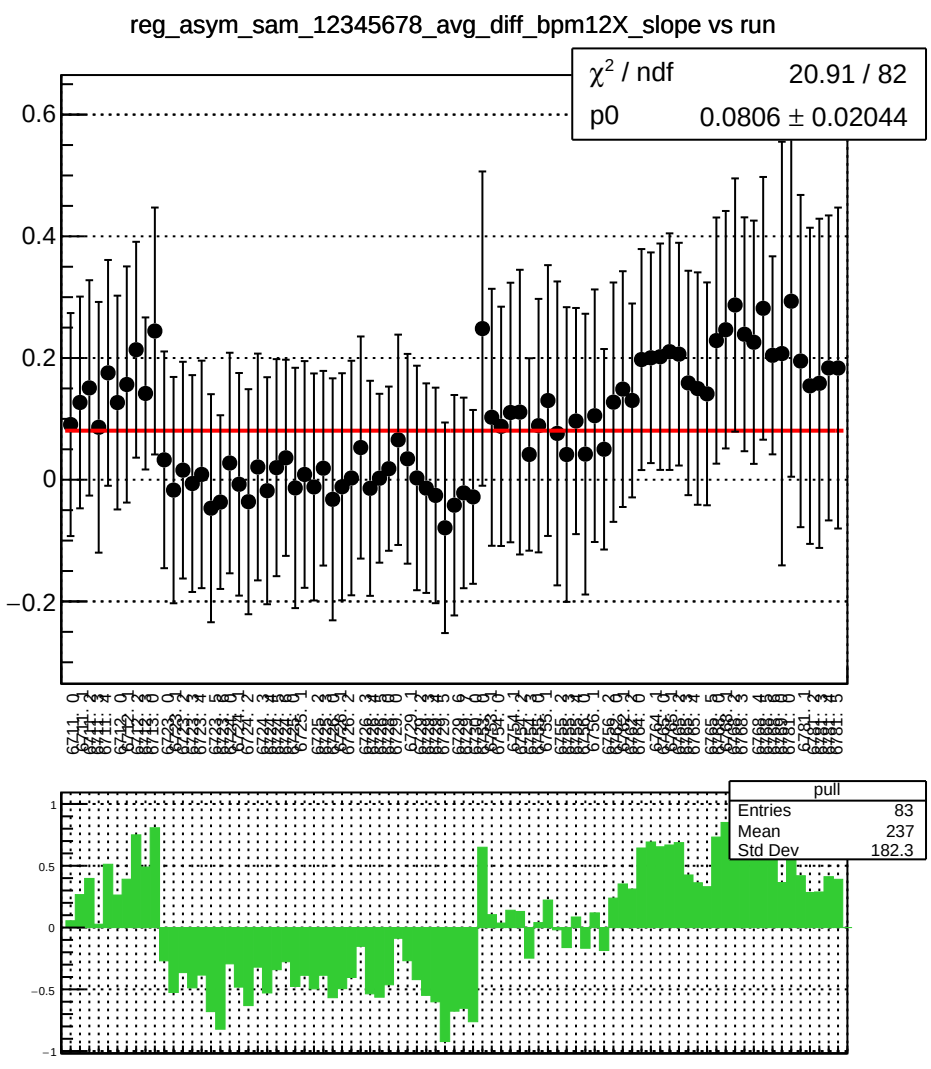

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.11 / 82
p0 −3.181 ± 0.2827
pull
Entries 83
Mean −191.1
Std Dev 240.4

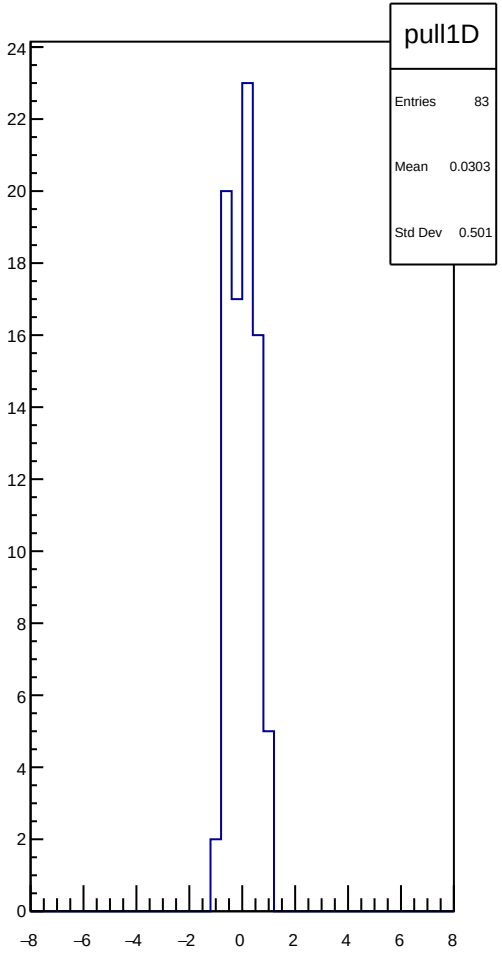

pull1D
Entries 83
Mean 0.01967
Std Dev 0.3969

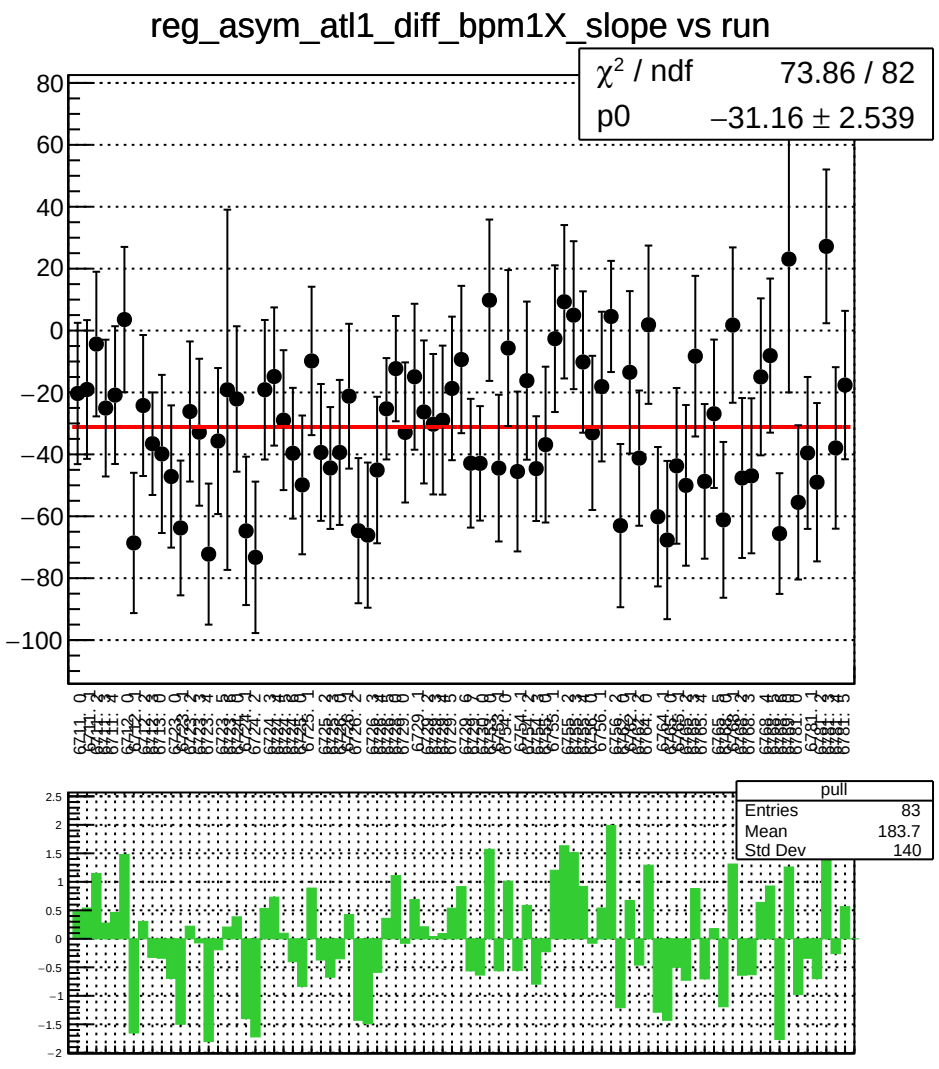

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 75 / 82
p0 −41.63 ± 0.4367
pull
Entries 83
Mean 151.4
Std Dev 97.08
pull1D
Entries 83
Mean −0.1159
Std Dev 0.9435

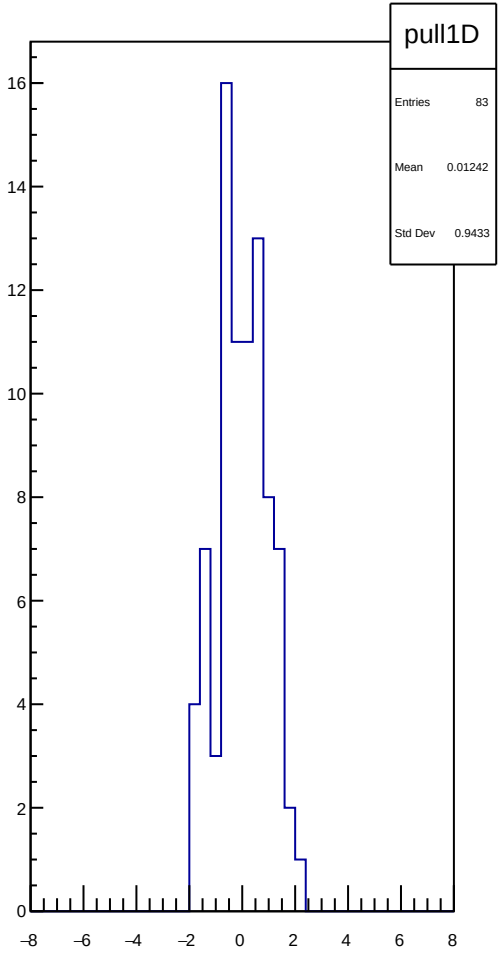

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.93 / 82
p0 36.86 ± 0.3555
pull
Entries 83
Mean 209
Std Dev 187.5

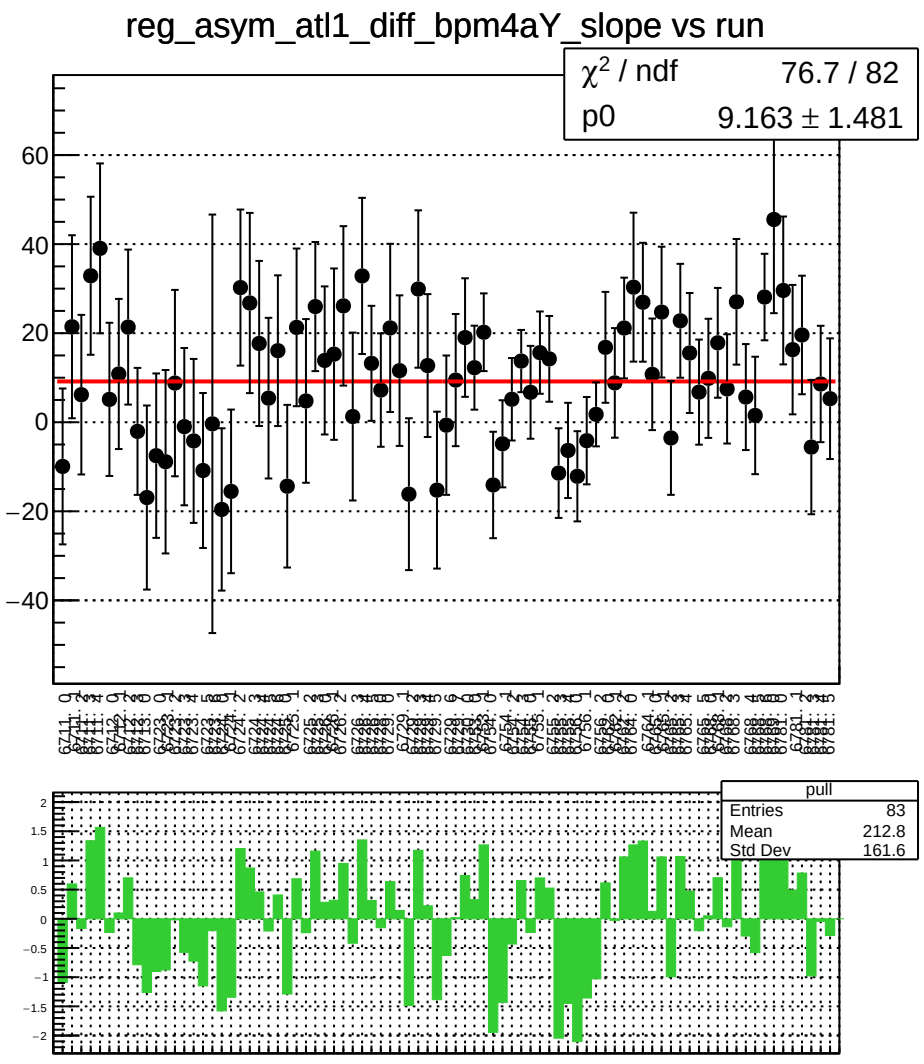

pull1D
Entries 83
Mean −0.007505
Std Dev 0.4096

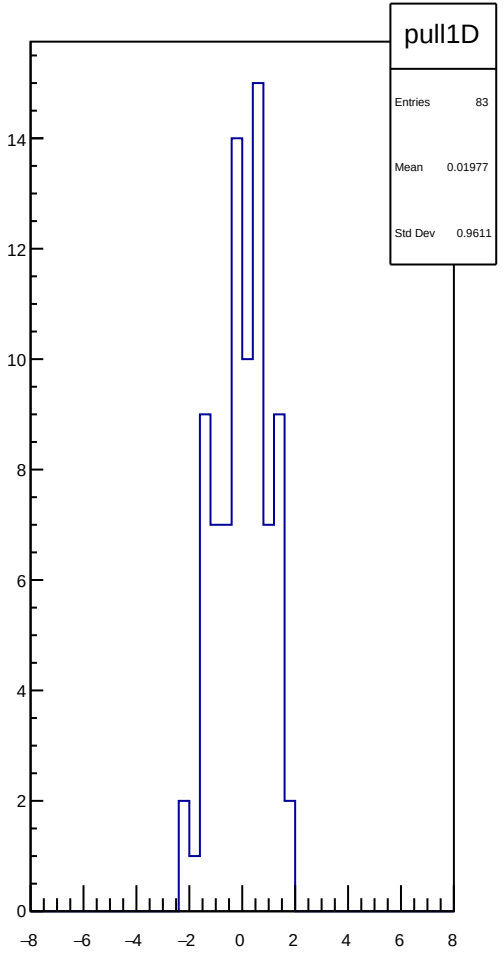

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 20.91 / 82
p0 0.0806 ± 0.02044
pull
Entries 83
Mean 237
Std Dev 182.3

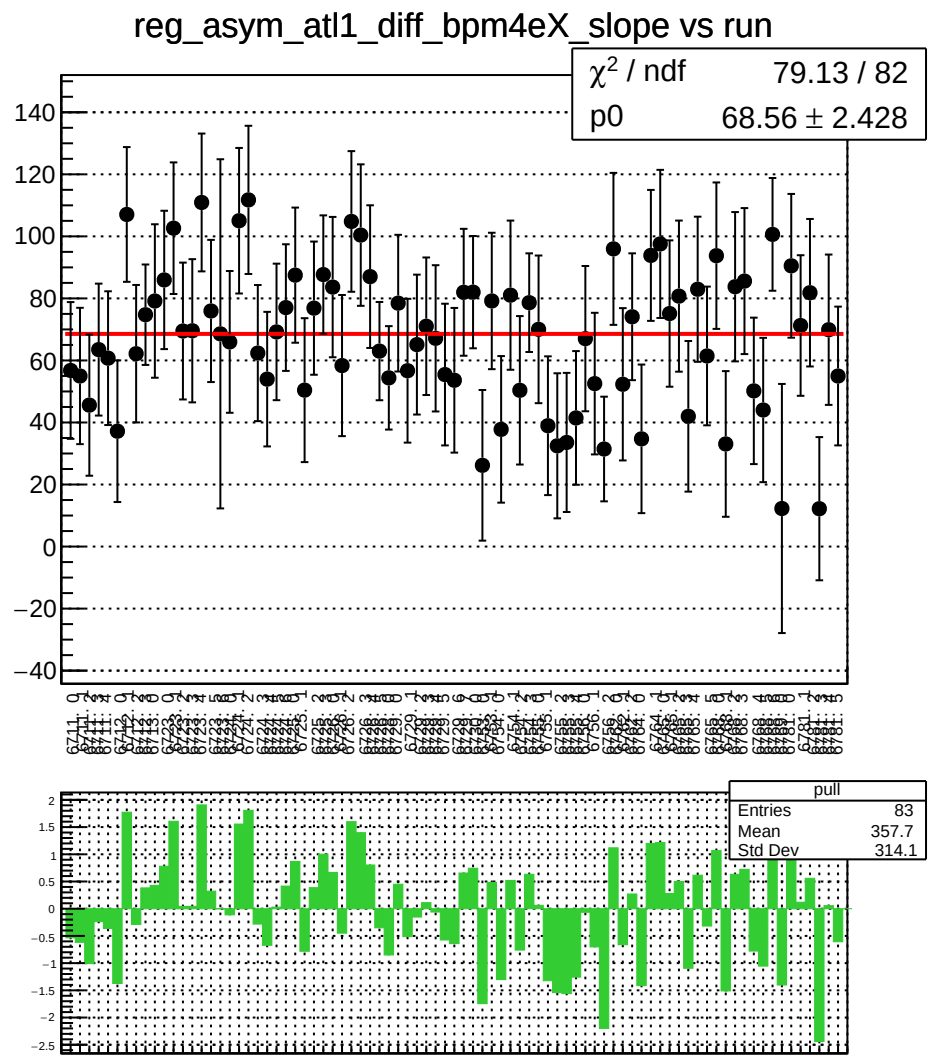

pull1D
Entries 83
Mean 0.0303
Std Dev 0.501

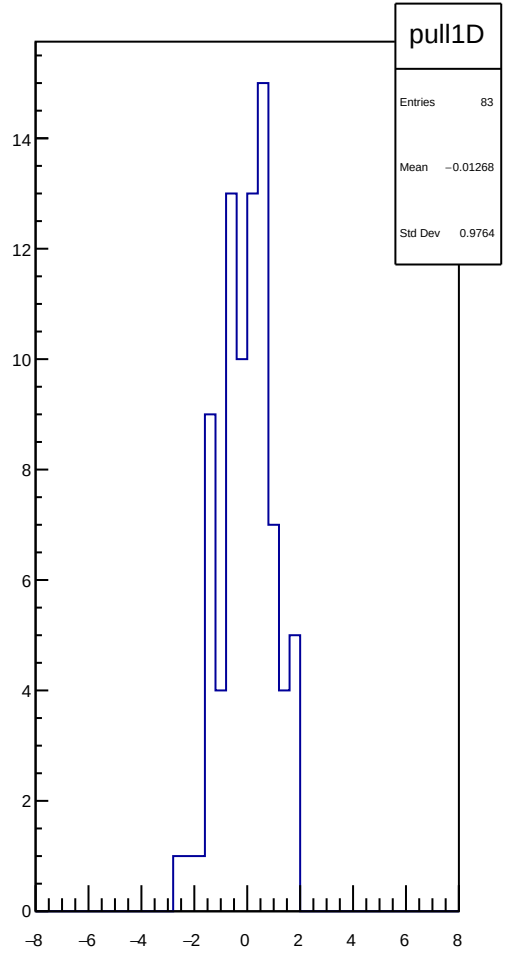

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 73.86 / 82
p0 −31.16 ± 2.539
pull
Entries 83
Mean 183.7
Std Dev 140

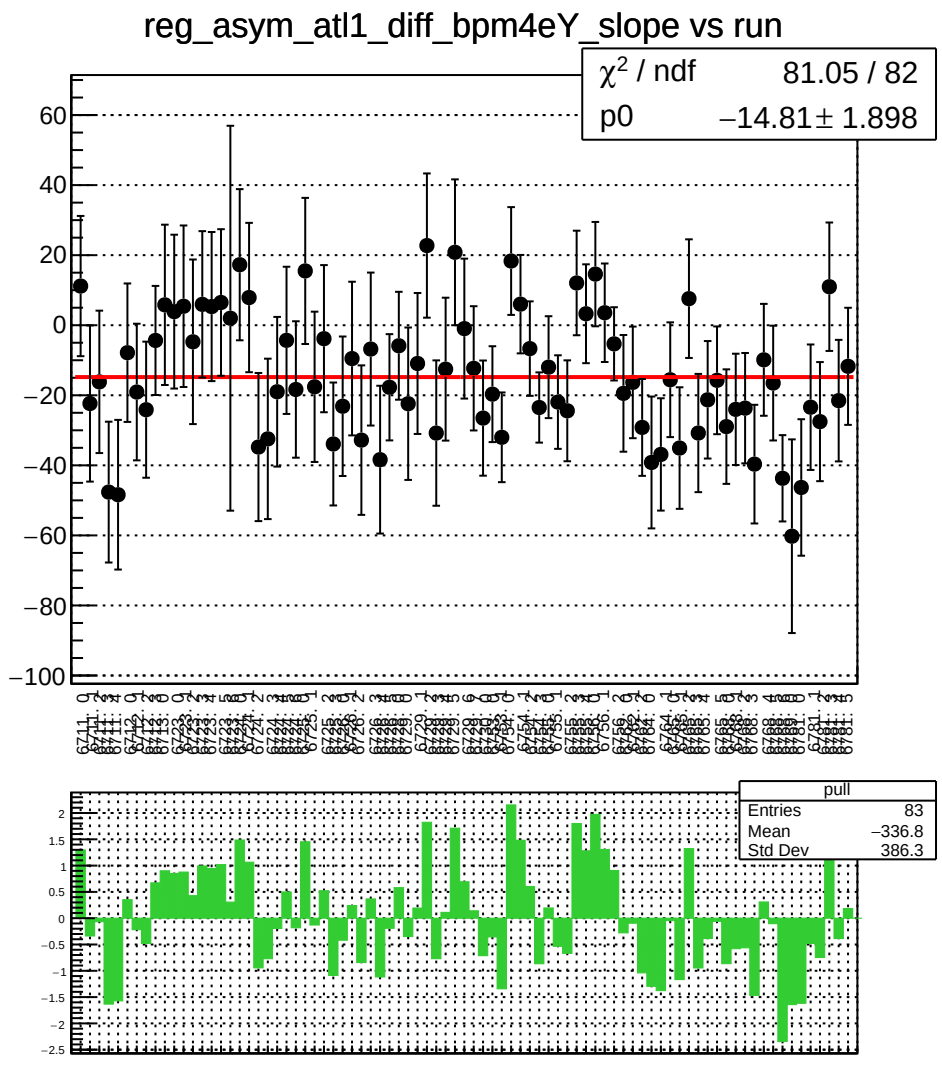

pull1D
Entries 83
Mean 0.01242
Std Dev 0.9433

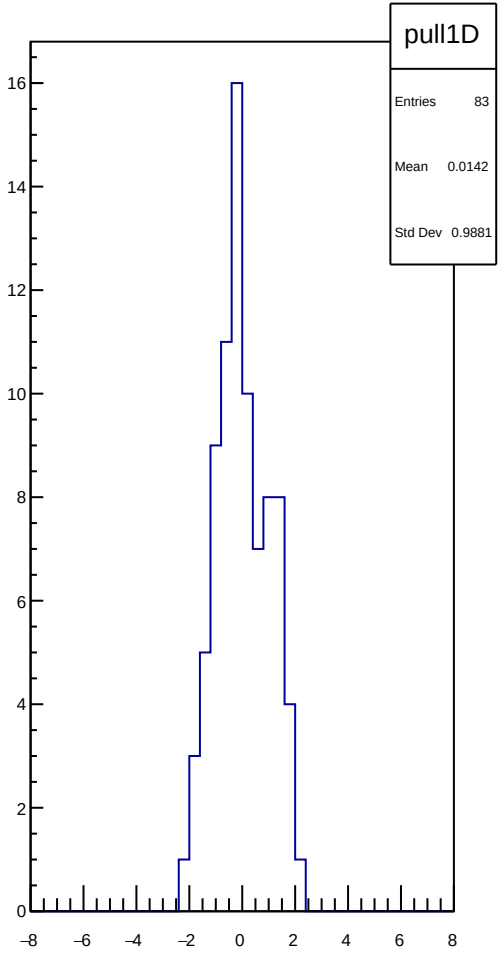

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 76.7 / 82
p0 9.163 ± 1.481
pull
Entries 83
Mean 212.8
Std Dev 161.6

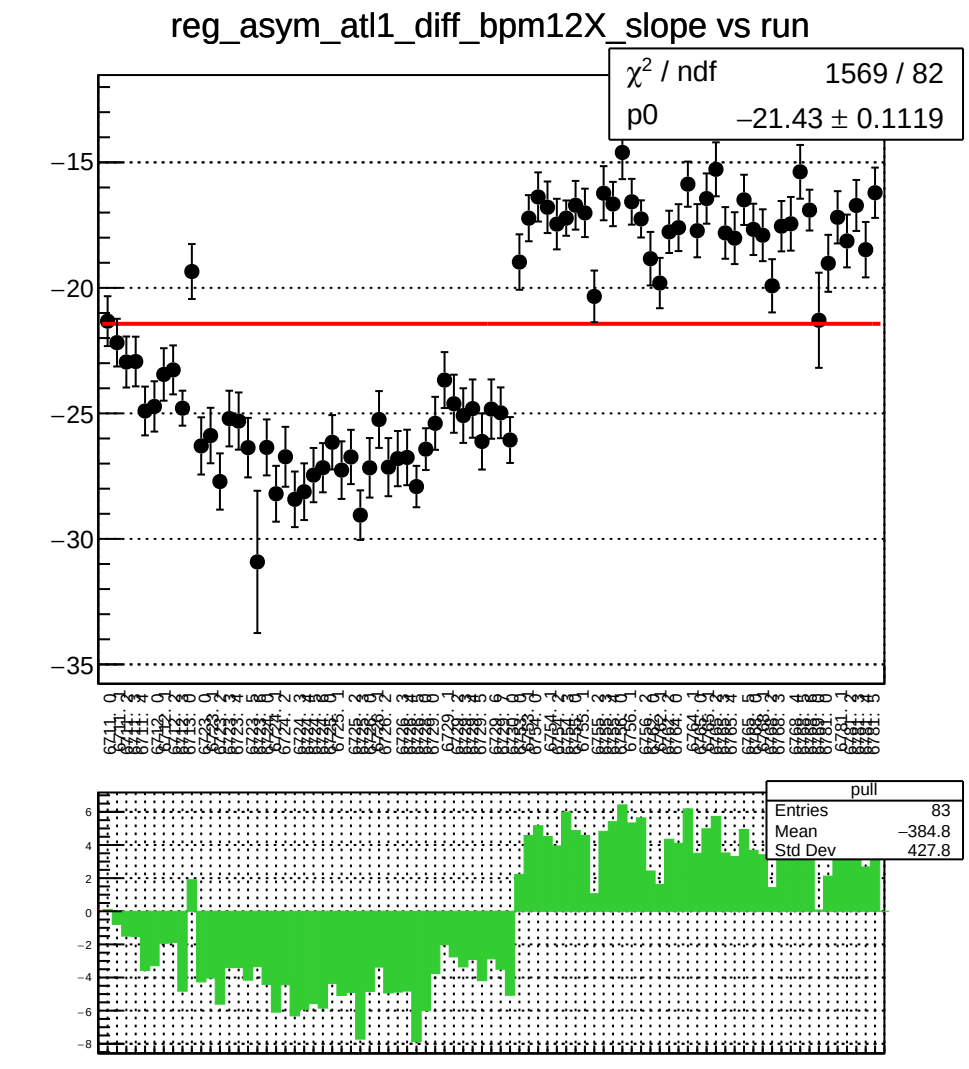

pull1D
Entries 83
Mean 0.01977
Std Dev 0.9611

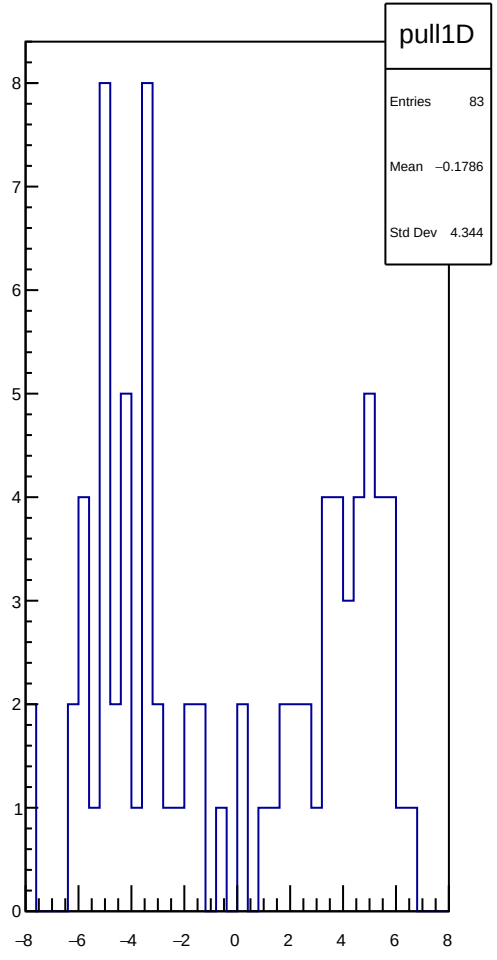

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 79.13 / 82
p0 68.56 ± 2.428
pull
Entries 83
Mean 357.7
Std Dev 314.1

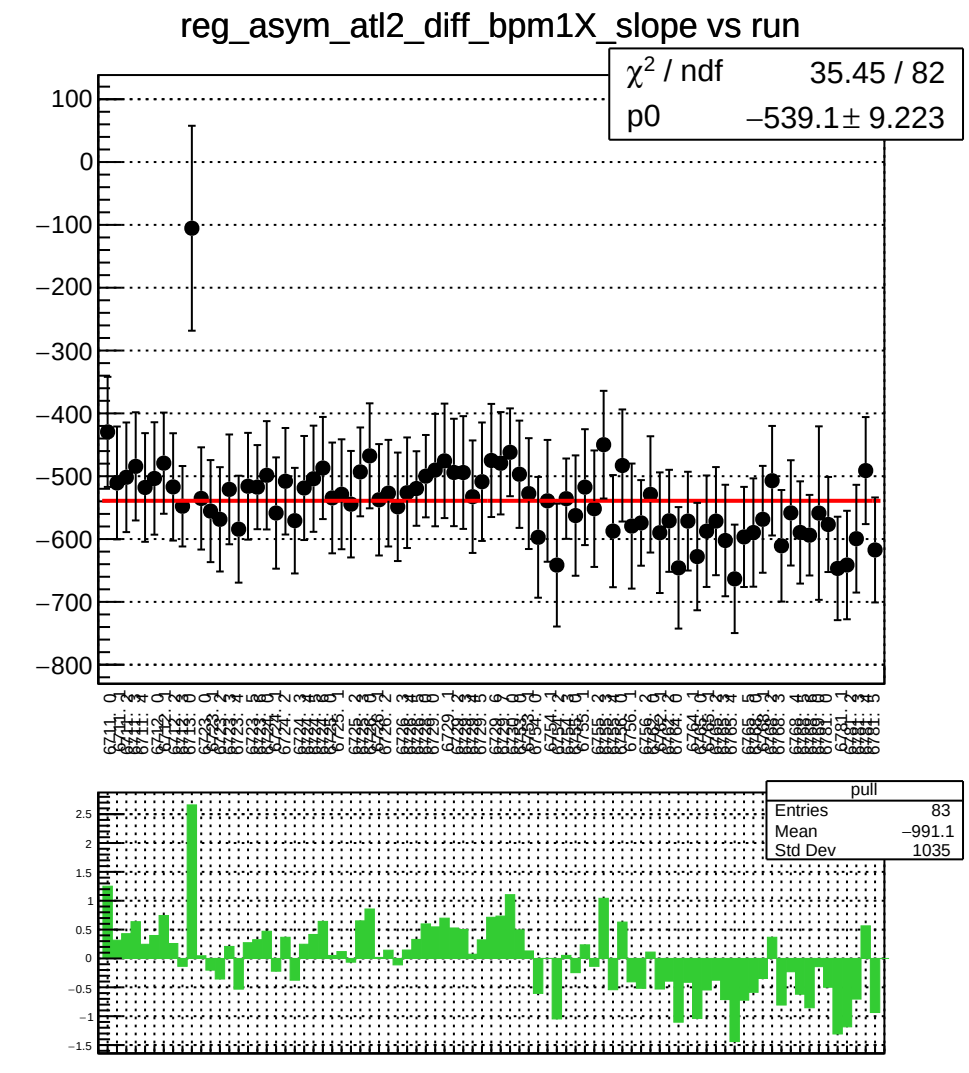

pull1D
Entries 83
Mean −0.01268
Std Dev 0.9764

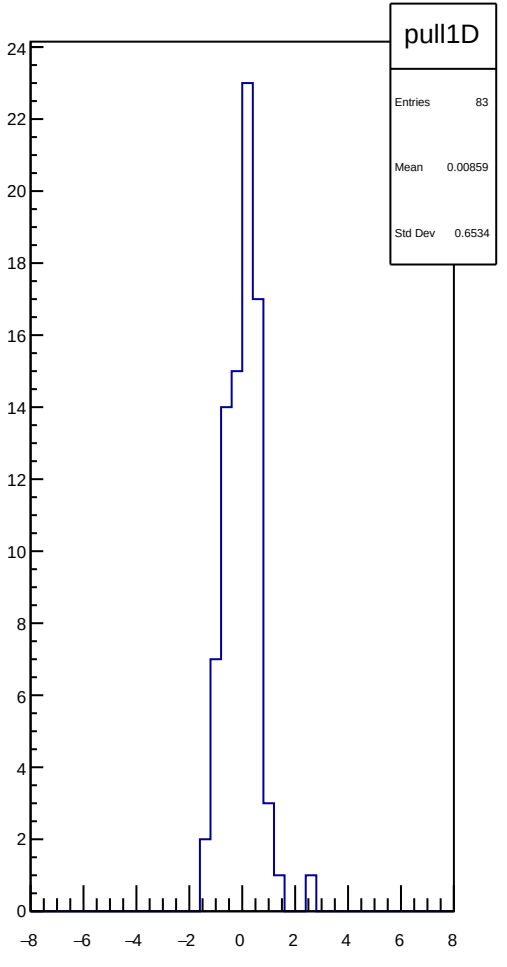

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 81.05 / 82
p0 −14.81 ± 1.898
pull
Entries 83
Mean −336.8
Std Dev 386.3

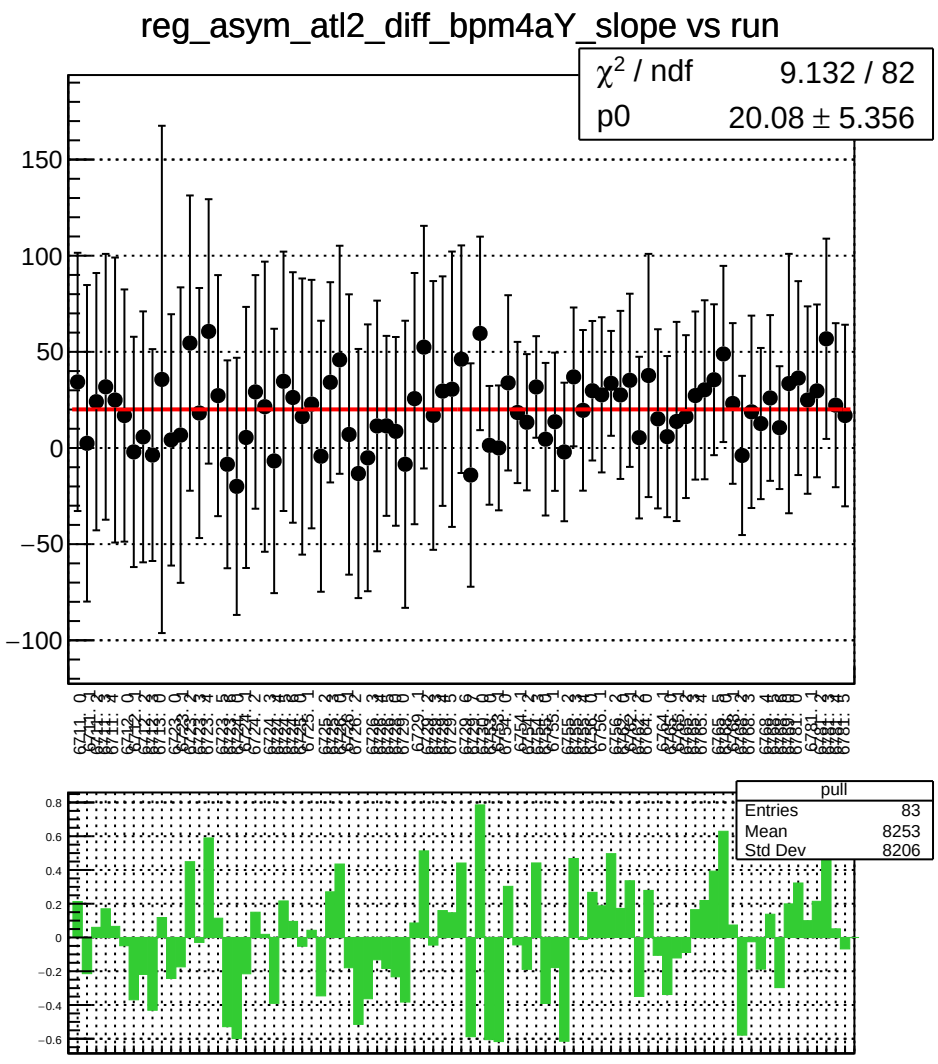

pull1D
Entries 83
Mean 0.0142
Std Dev 0.9881

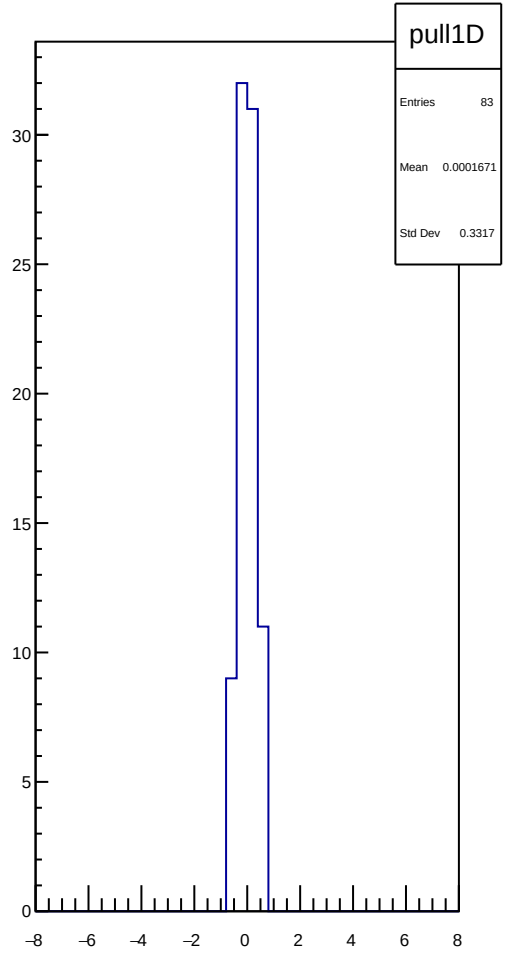

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 1569 / 82
p0 −21.43 ± 0.1119
pull
Entries 83
Mean −384.8
Std Dev 427.8

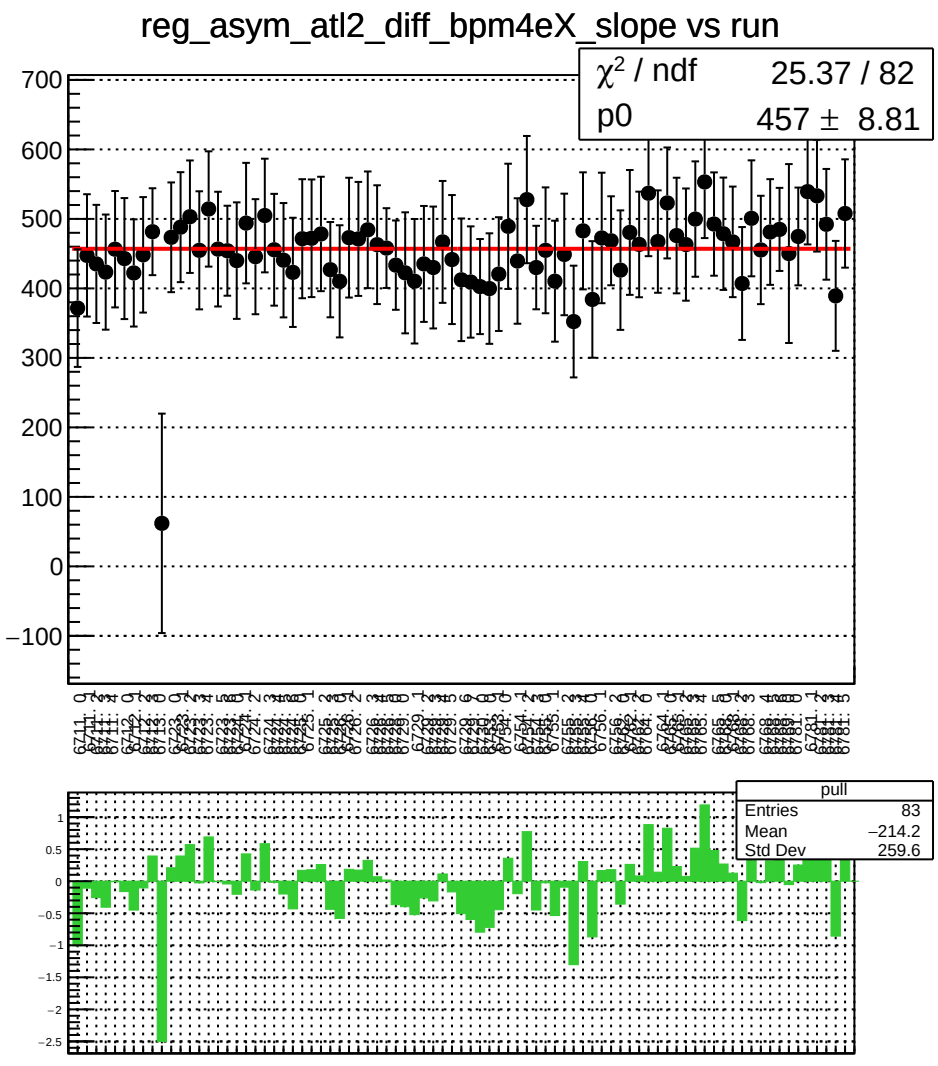

pull1D
Entries 83
Mean −0.1786
Std Dev 4.344

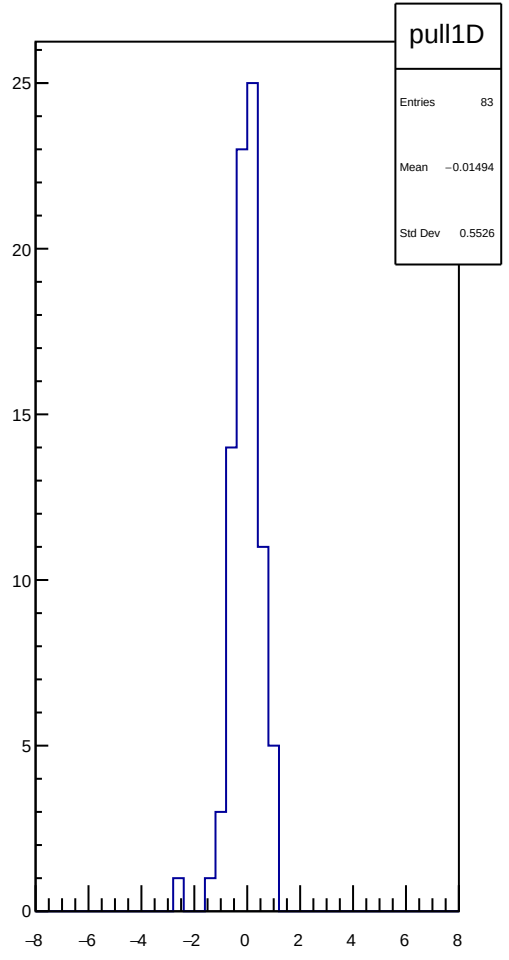

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 35.45 / 82
p0 −539.1 ± 9.223
pull
Entries 83
Mean −991.1
Std Dev 1035

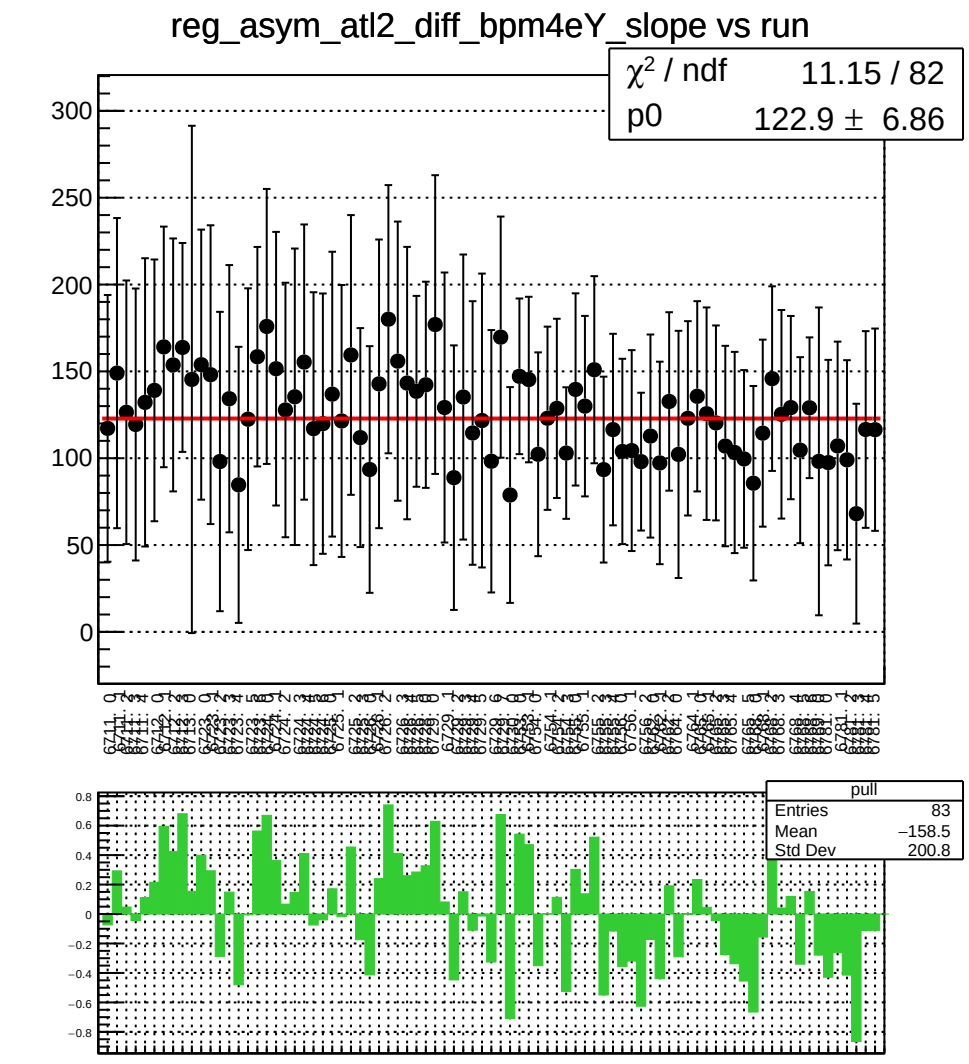

pull1D
Entries 83
Mean 0.00859
Std Dev 0.6534

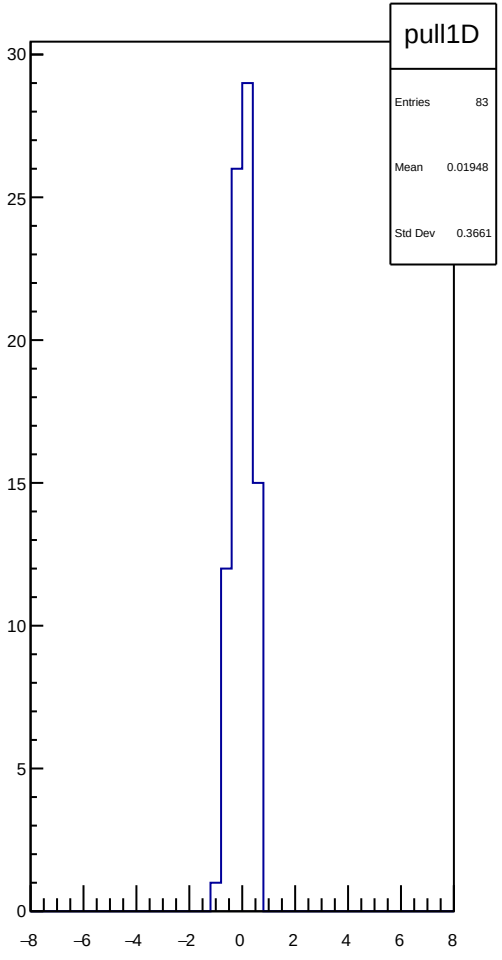

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 9.132 / 82
p0 20.08 ± 5.356
150
100
50
0
−50
−100
pull
Entries 83
Mean 8253
Std Dev 8206
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

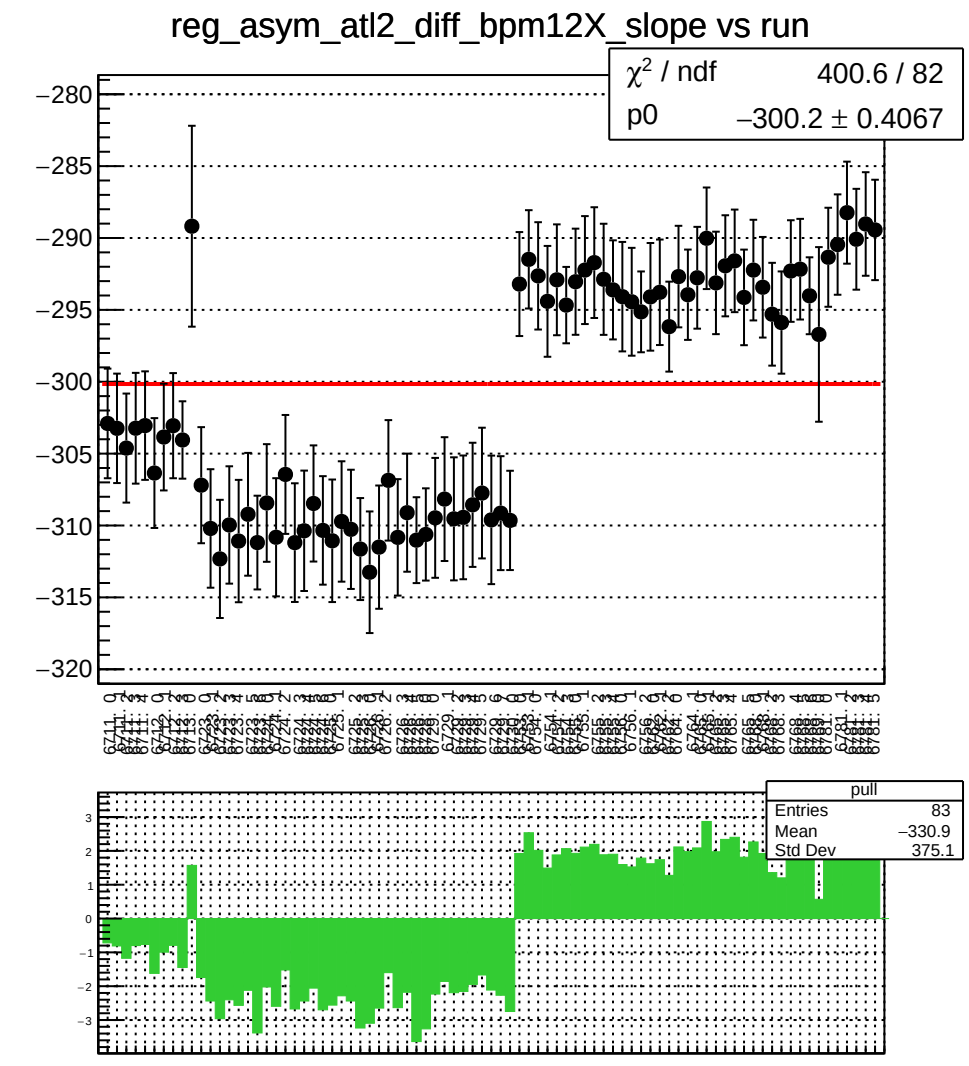

pull1D
Entries 83
Mean 0.0001671
Std Dev 0.3317
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

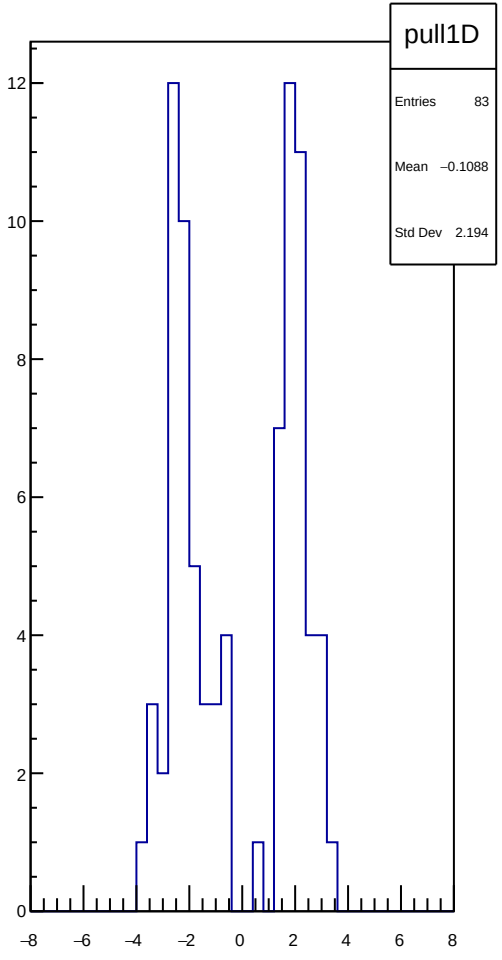

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 25.37 / 82
p0 457 ± 8.81
pull
Entries 83
Mean −214.2
Std Dev 259.6

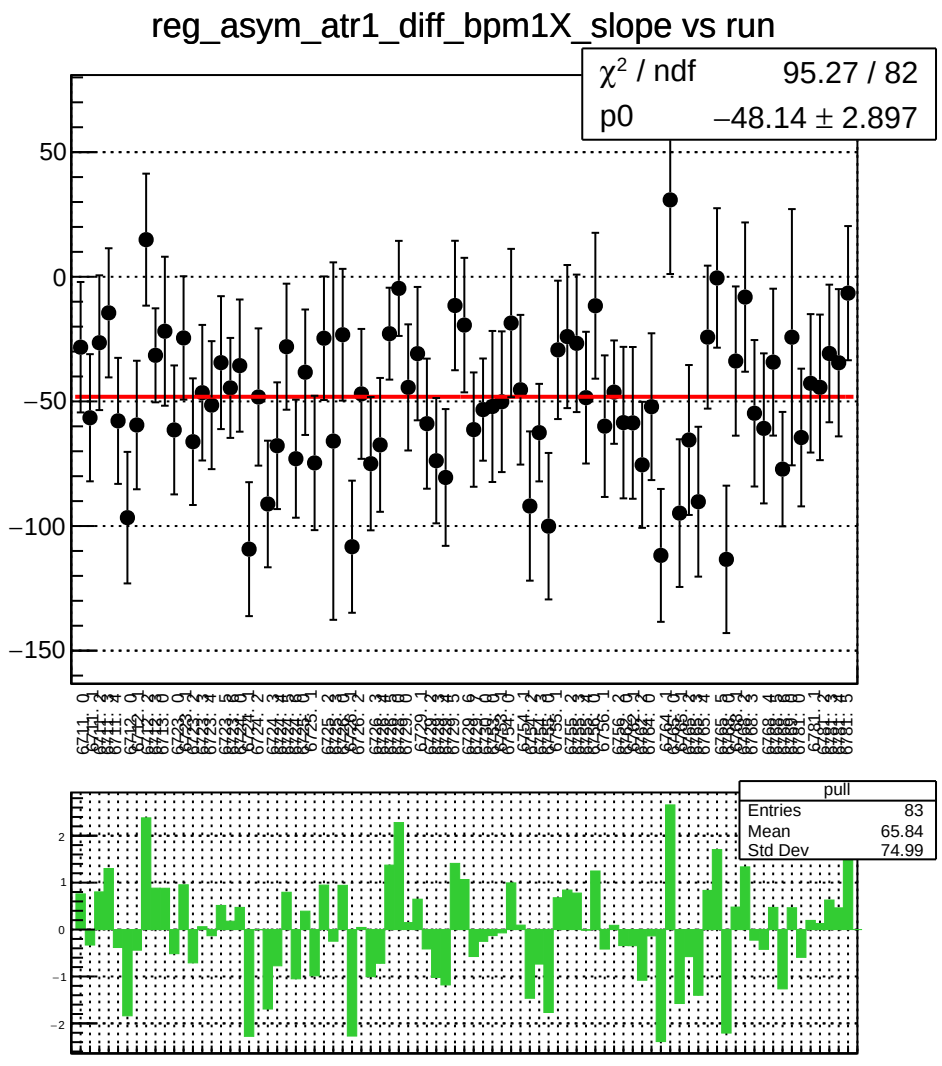

pull1D
Entries 83
Mean −0.01494
Std Dev 0.5526

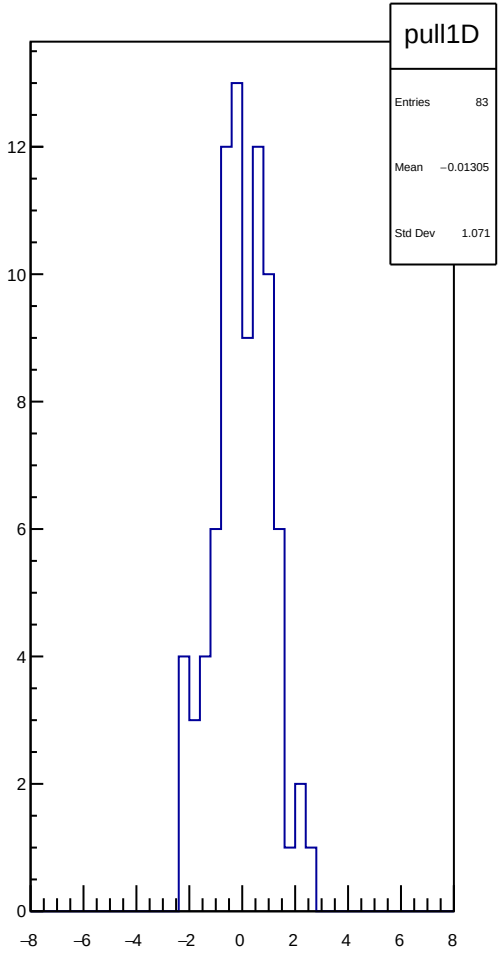

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 11.15 / 82
p0 122.9 ± 6.86
pull
Entries 83
Mean −158.5
Std Dev 200.8

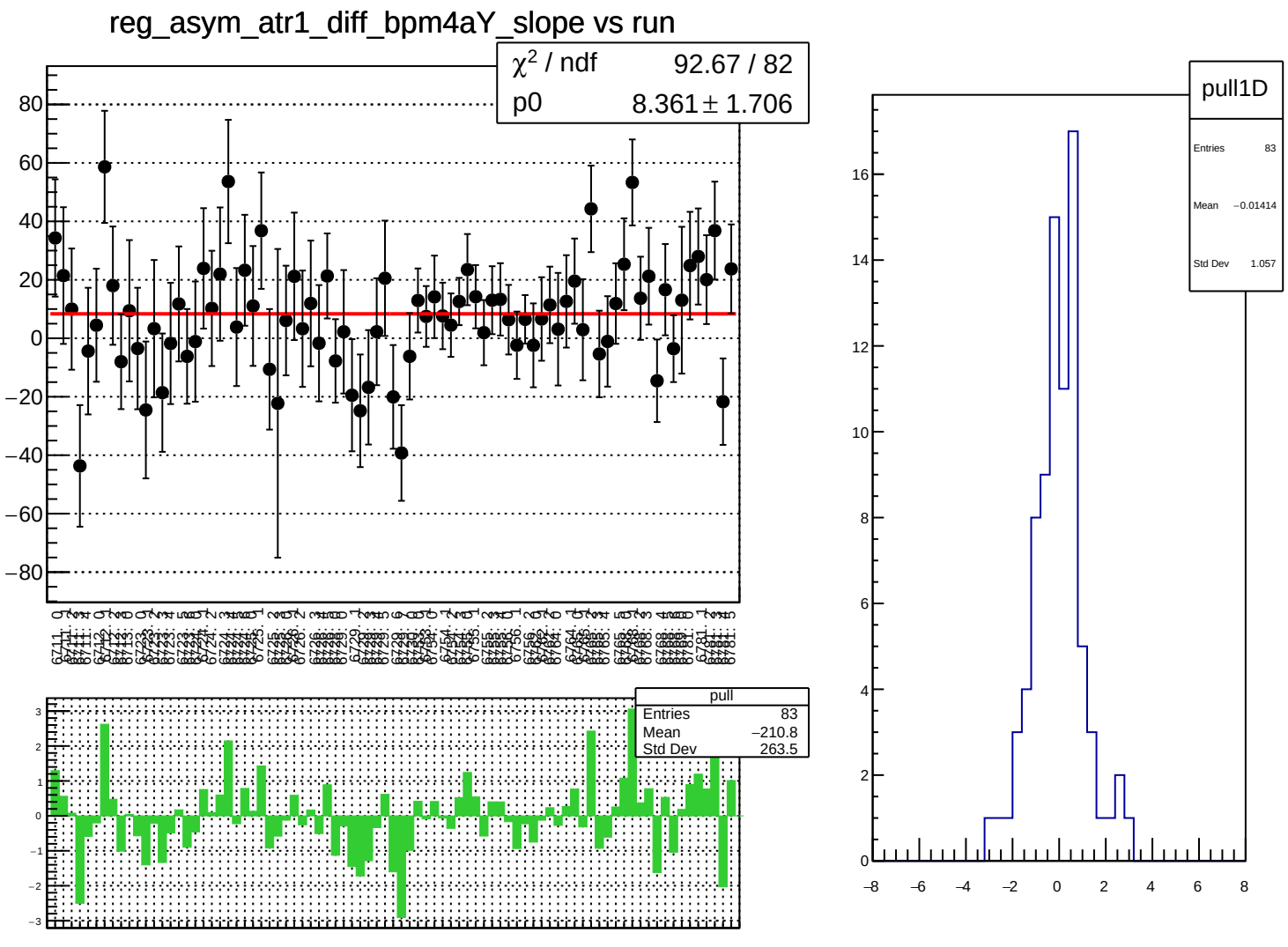

pull1D
Entries 83
Mean 0.01948
Std Dev 0.3661

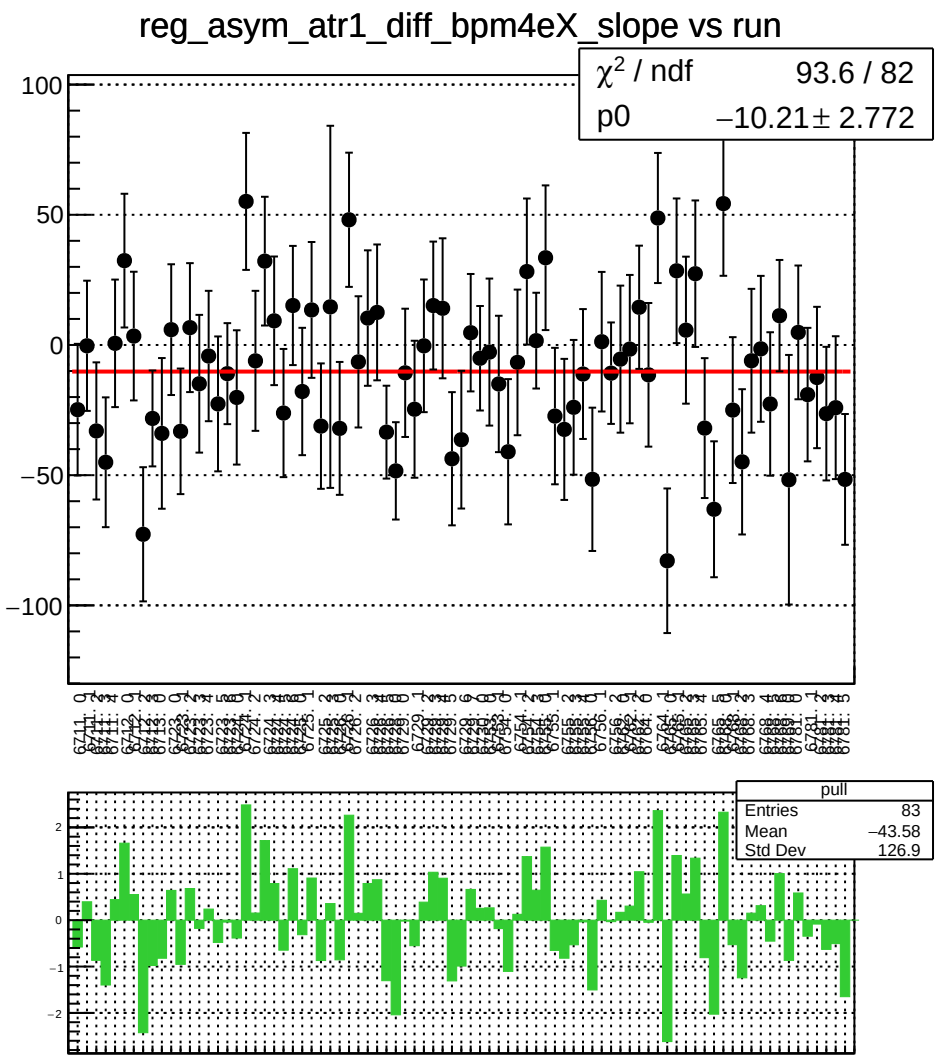

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 400.6 / 82
p0 −300.2 ± 0.4067
pull
Entries 83
Mean −330.9
Std Dev 375.1

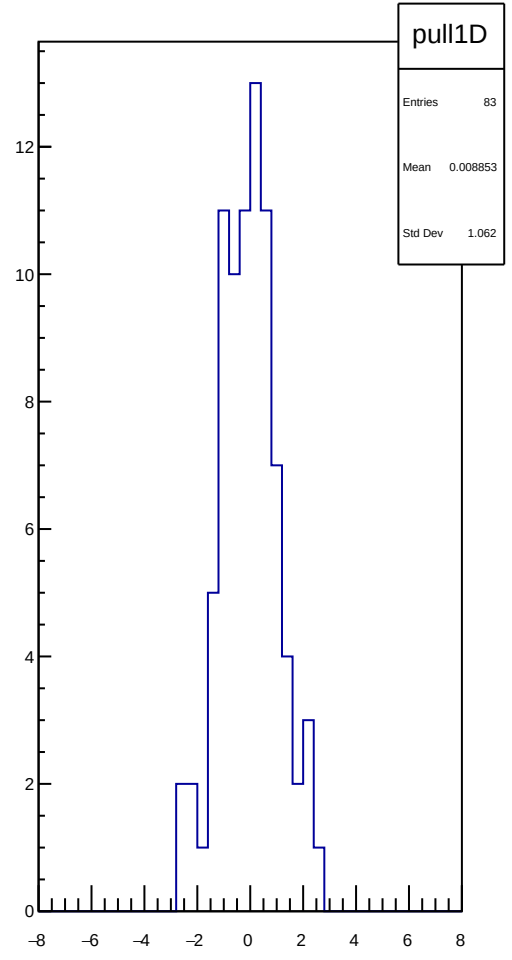

pull1D
Entries 83
Mean −0.1088
Std Dev 2.194

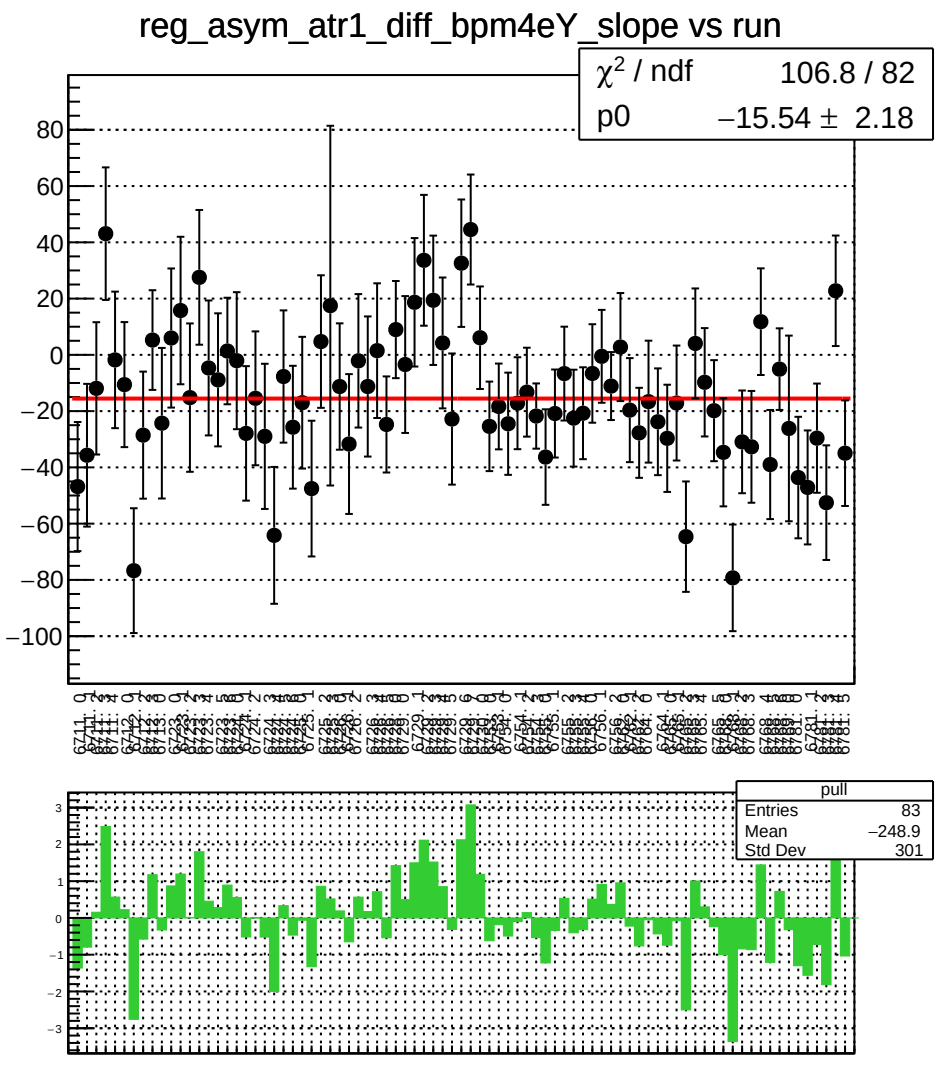

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 95.27 / 82
p0 −48.14 ± 2.897
50
0
−50
−100
−150
pull
Entries 83
Mean 65.84
Std Dev 74.99
2
1
0
−1
−2

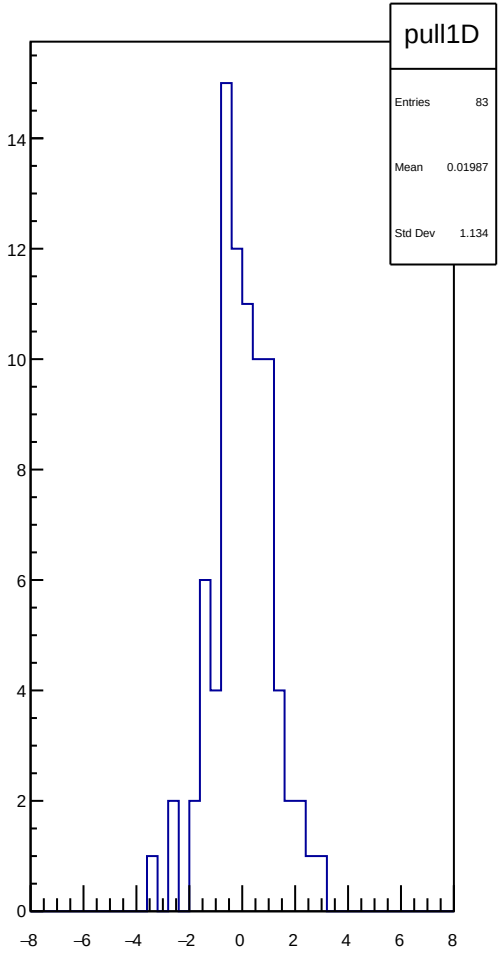

pull1D
Entries 83
Mean −0.01305
Std Dev 1.071
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

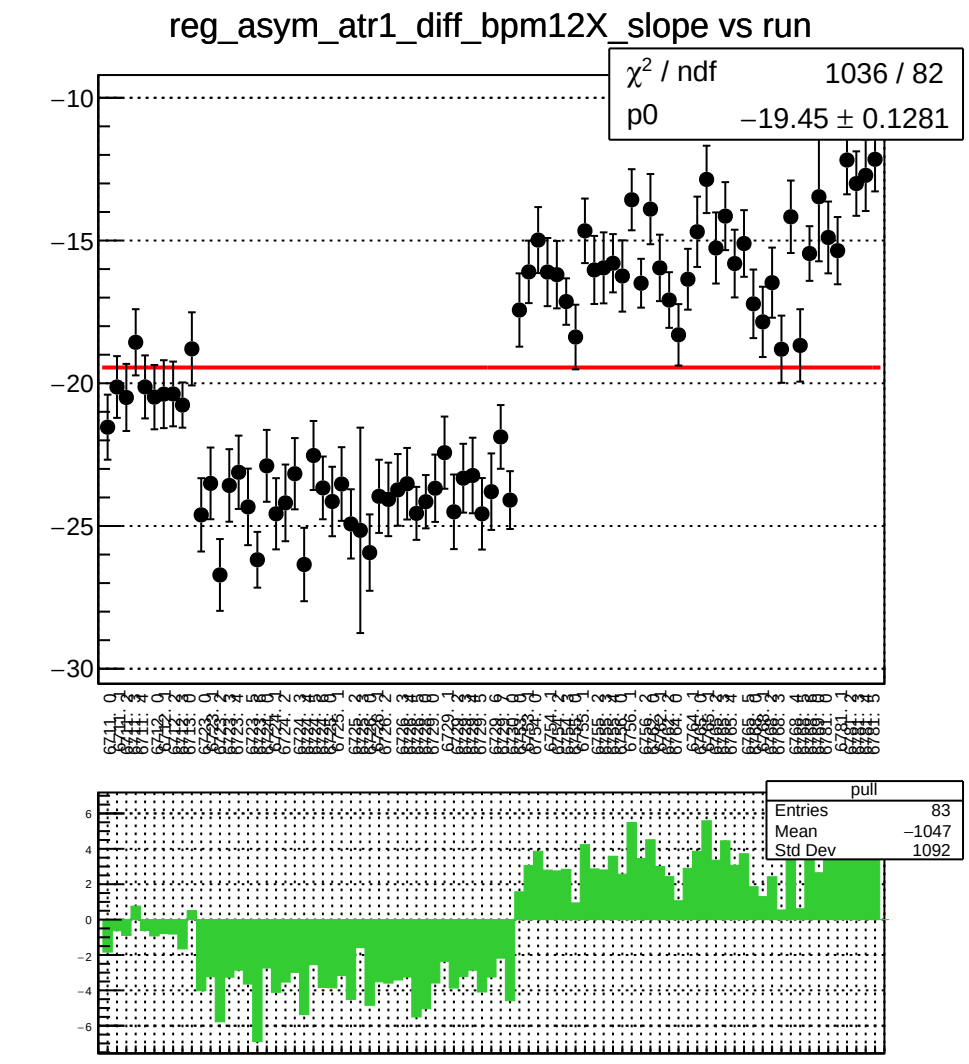

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 92.67 / 82
p0 8.361 ± 1.706
pull
Entries 83
Mean −210.8
Std Dev 263.5
pull1D
Entries 83
Mean −0.01414
Std Dev 1.057

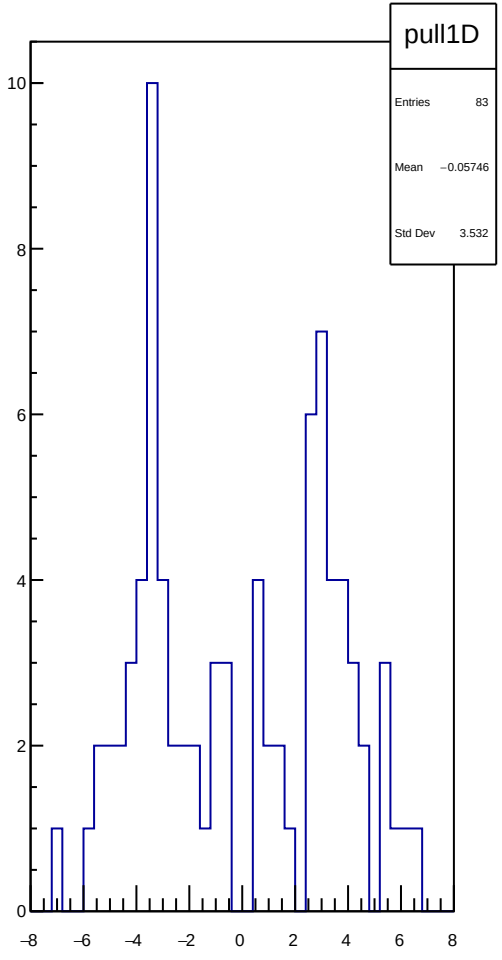

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 93.6 / 82
p0 −10.21± 2.772
100
50
0
−50
−100
pull
Entries 83
Mean −43.58
Std Dev 126.9
2
1
0
−1
−2

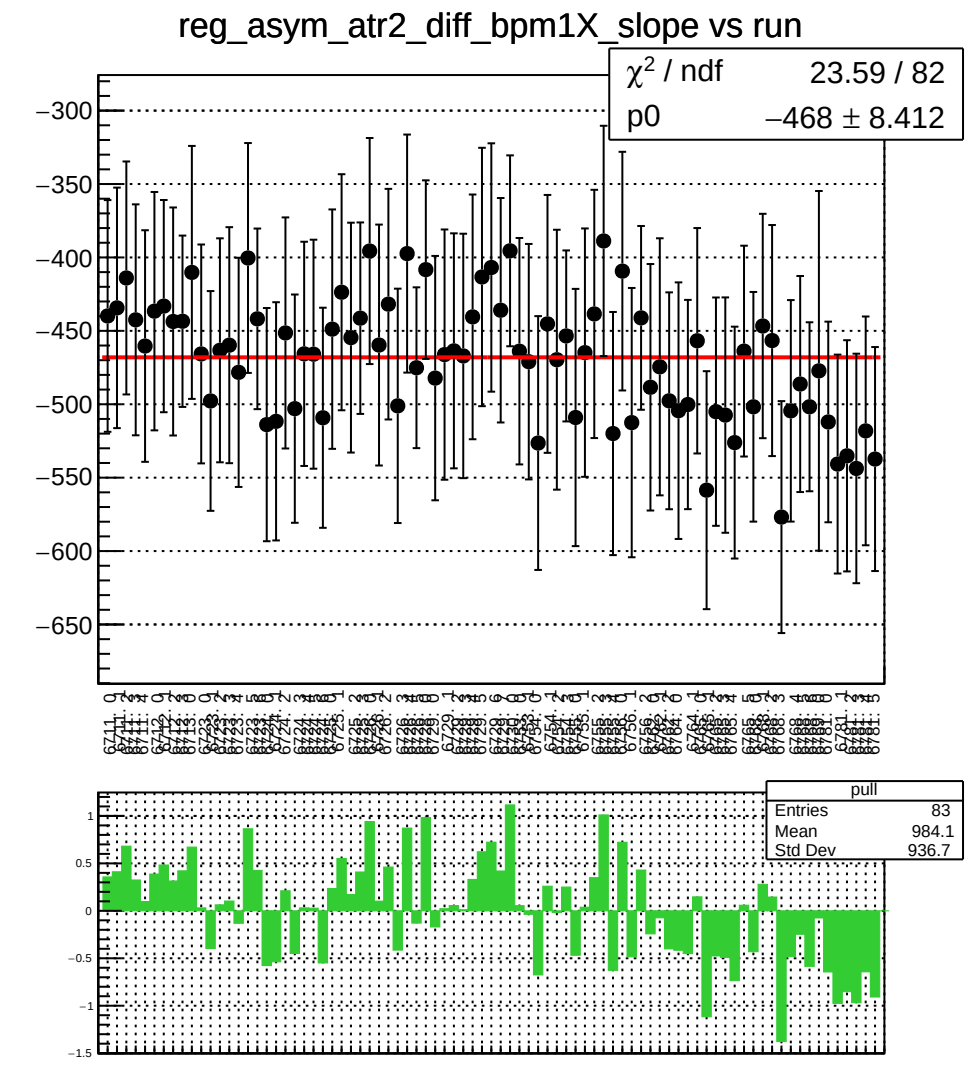

pull1D
Entries 83
Mean 0.008853
Std Dev 1.062
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

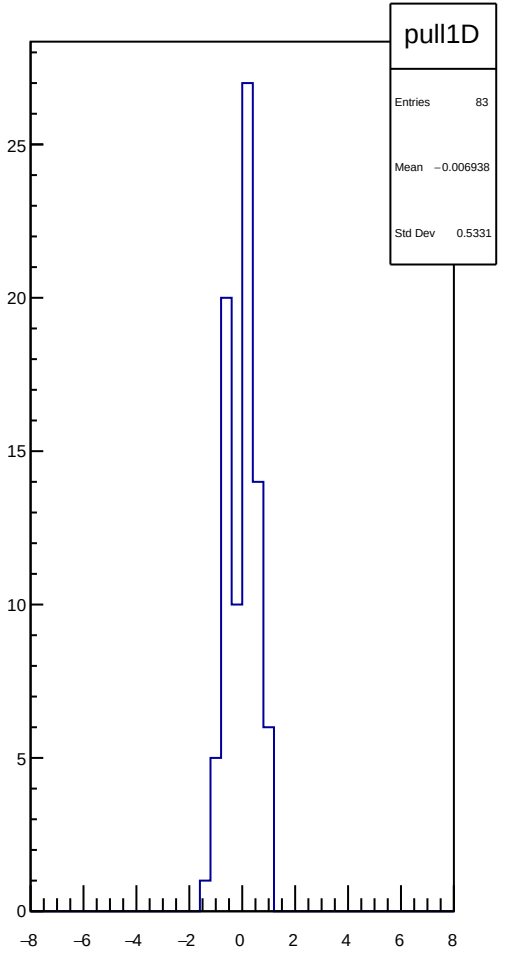

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 106.8 / 82
p0 −15.54 ± 2.18
pull
Entries 83
Mean −248.9
Std Dev 301

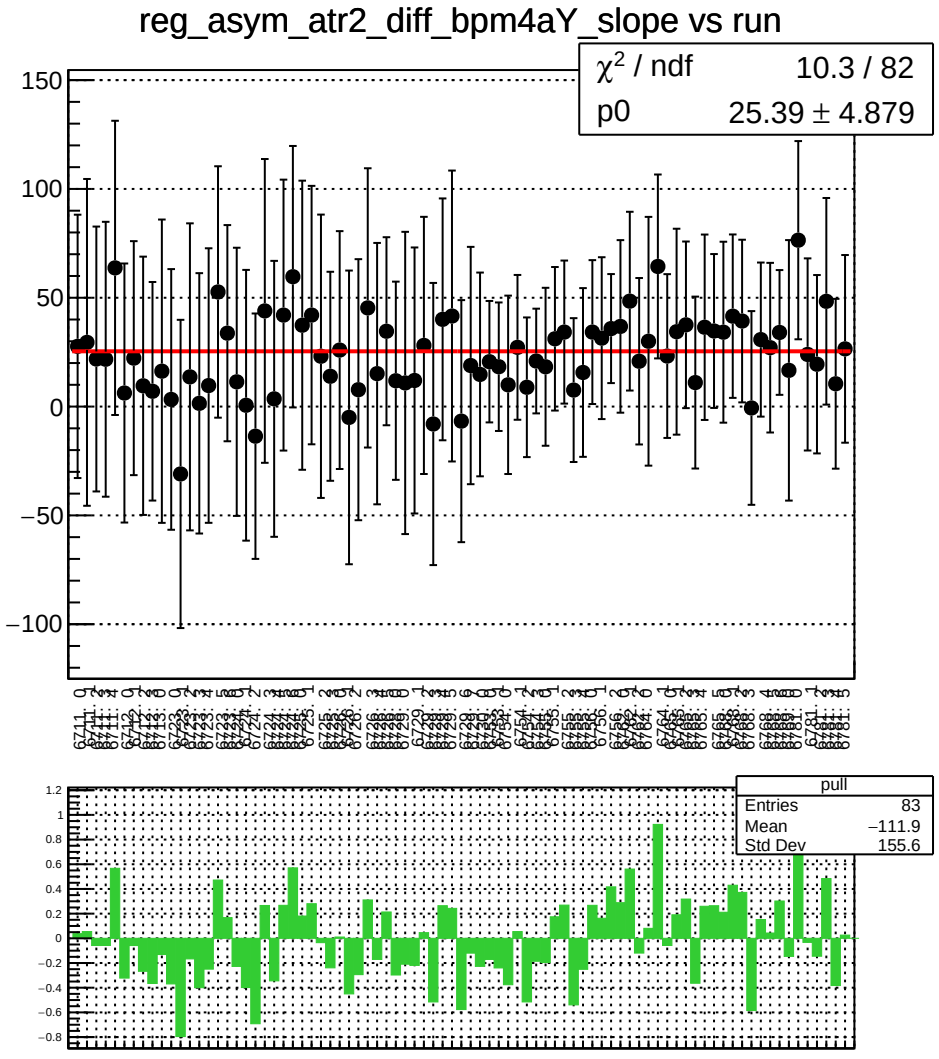

pull1D
Entries 83
Mean 0.01987
Std Dev 1.134

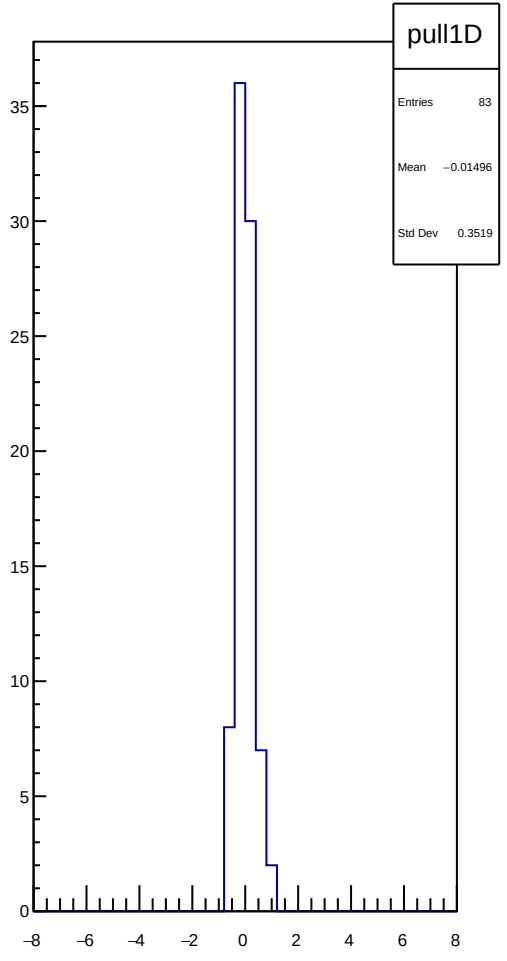

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 1036 / 82
p0 −19.45 ± 0.1281
pull
Entries 83
Mean −1047
Std Dev 1092

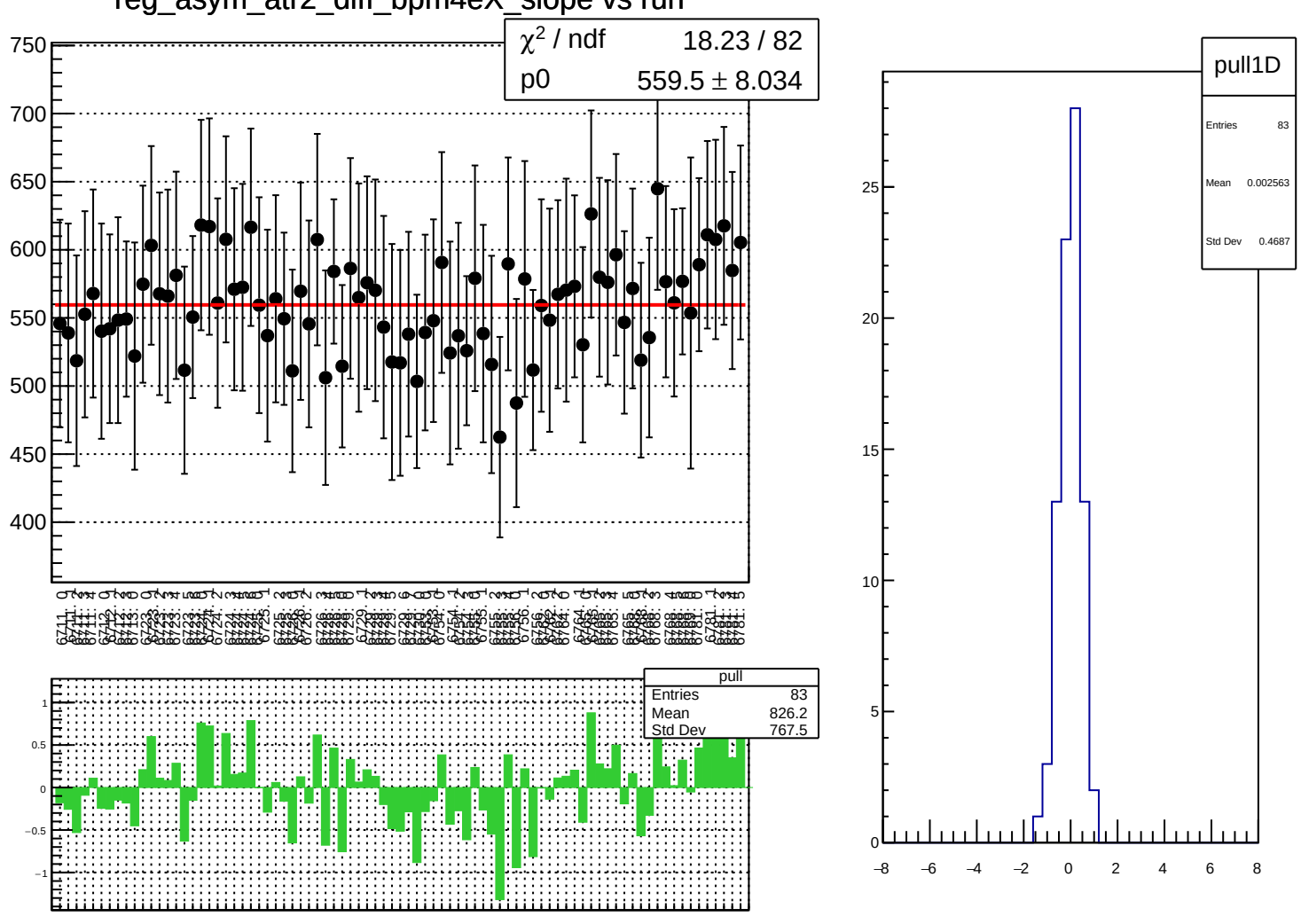

pull1D
Entries 83
Mean −0.05746
Std Dev 3.532

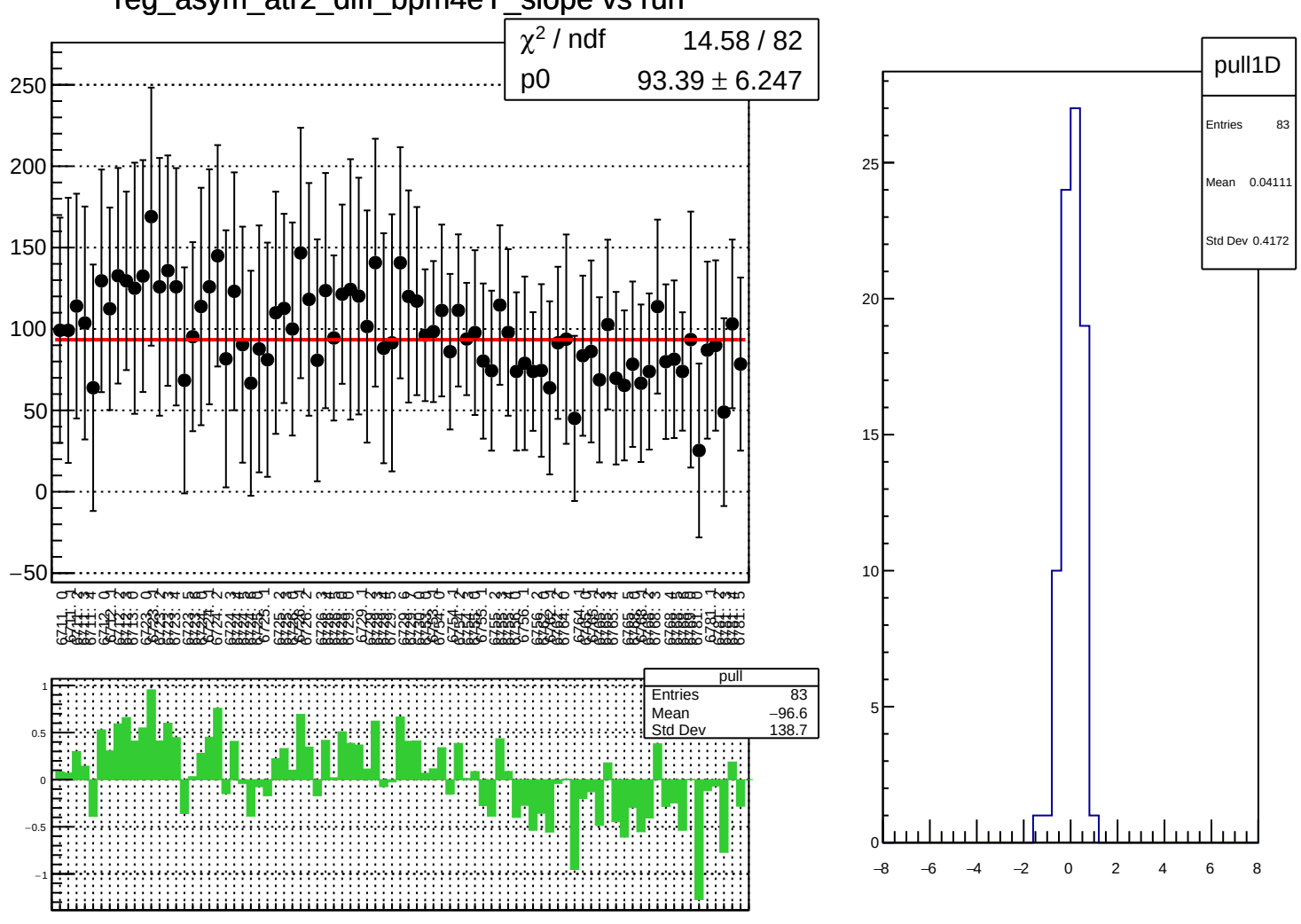

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 23.59 / 82
p0 −468 ± 8.412
pull
Entries 83
Mean 984.1
Std Dev 936.7

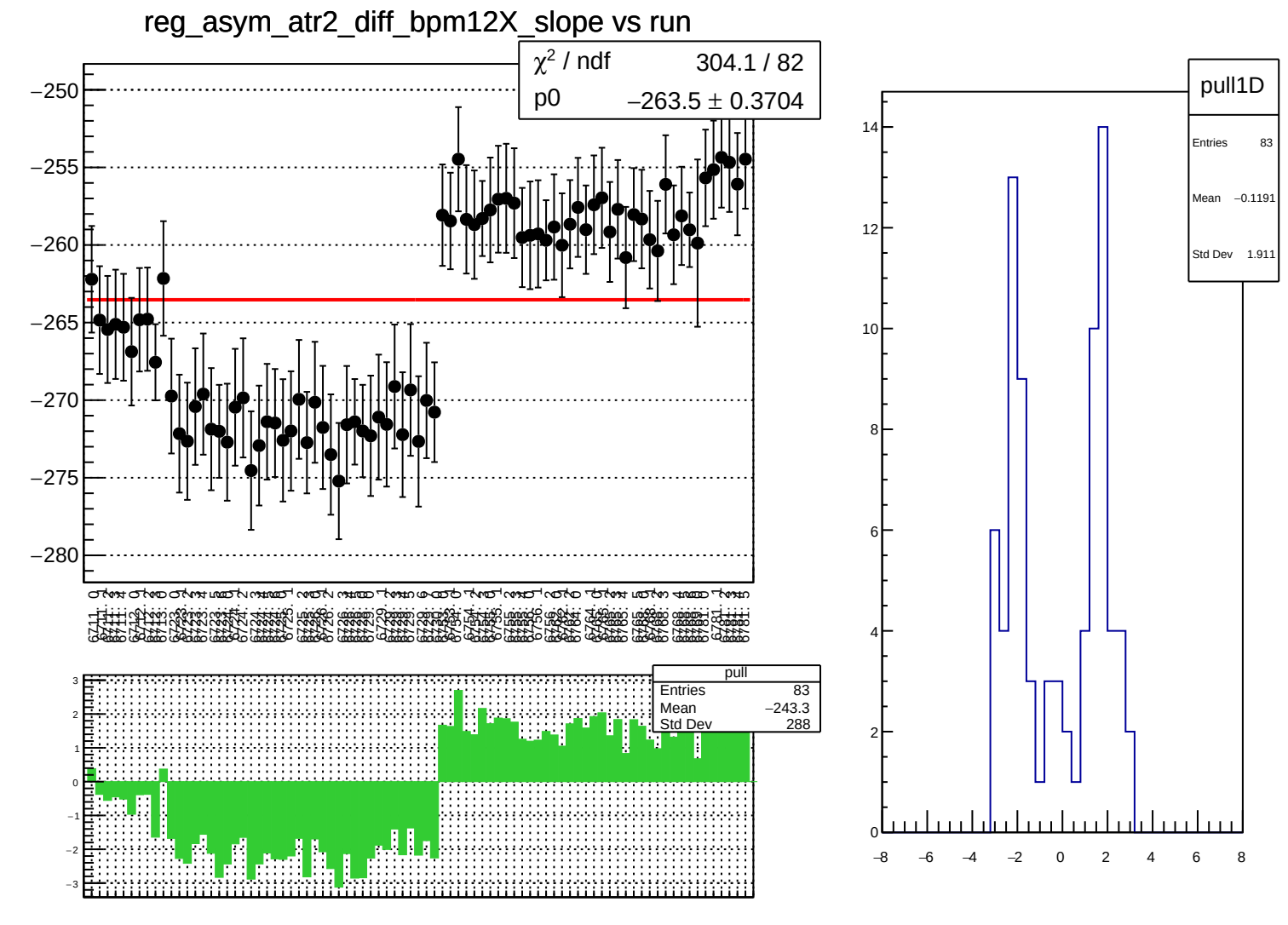

pull1D
Entries 83
Mean −0.006938
Std Dev 0.5331

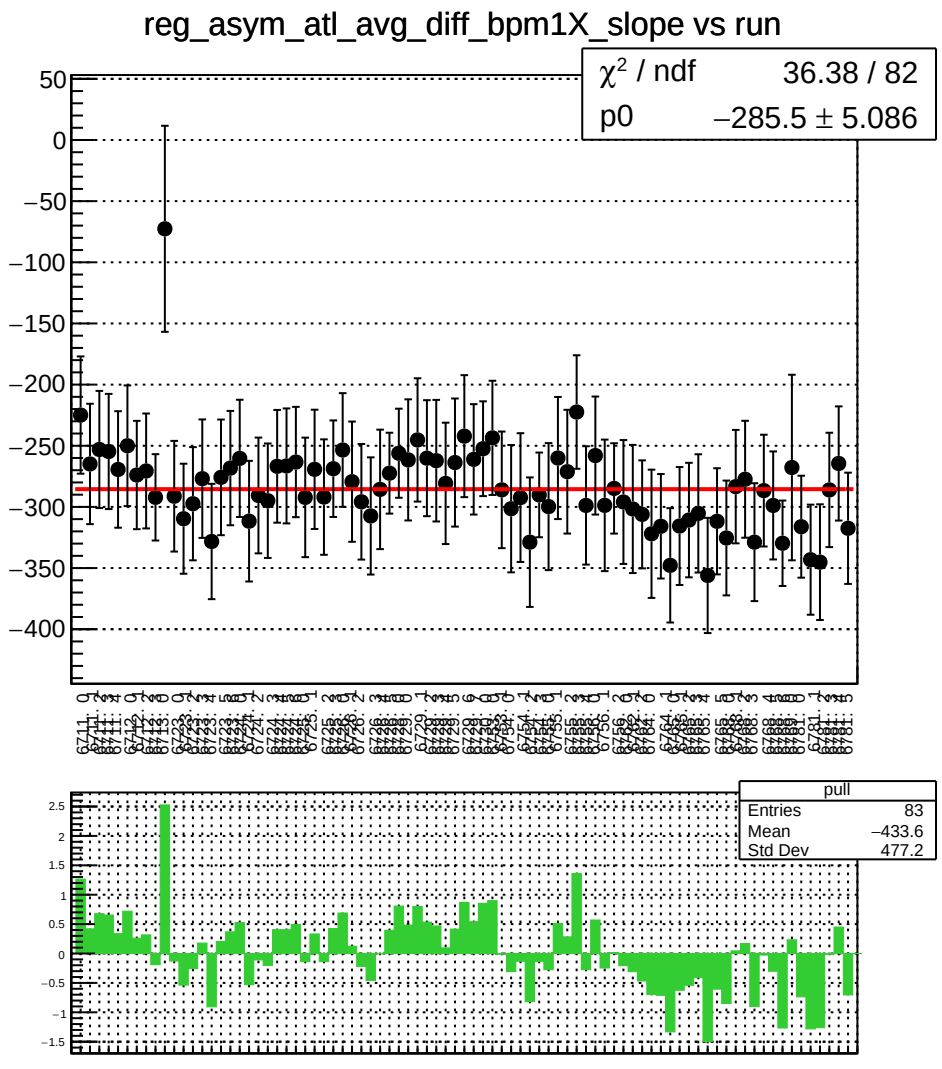

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 10.3 / 82
p0 25.39 ± 4.879
150
100
50
0
−50
−100
pull
Entries 83
Mean −111.9
Std Dev 155.6
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

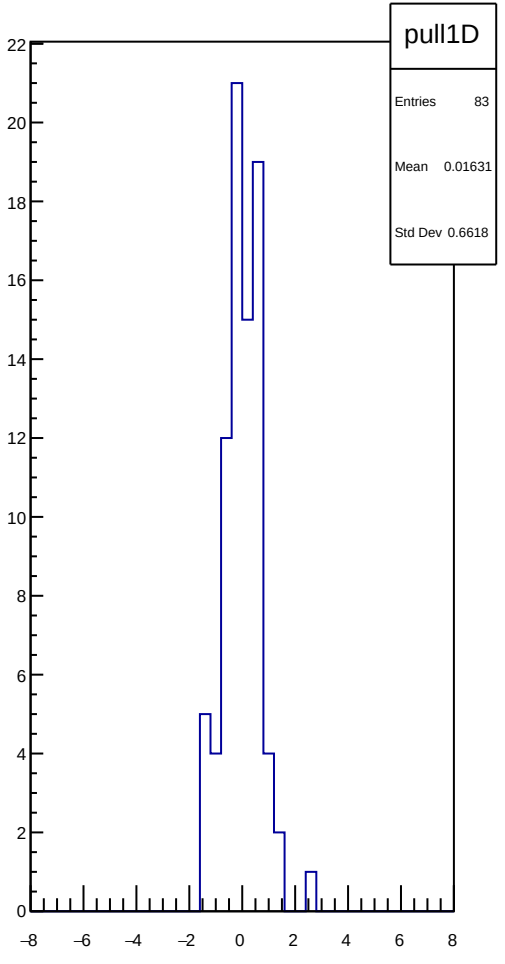

pull1D
Entries 83
Mean −0.01496
Std Dev 0.3519
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

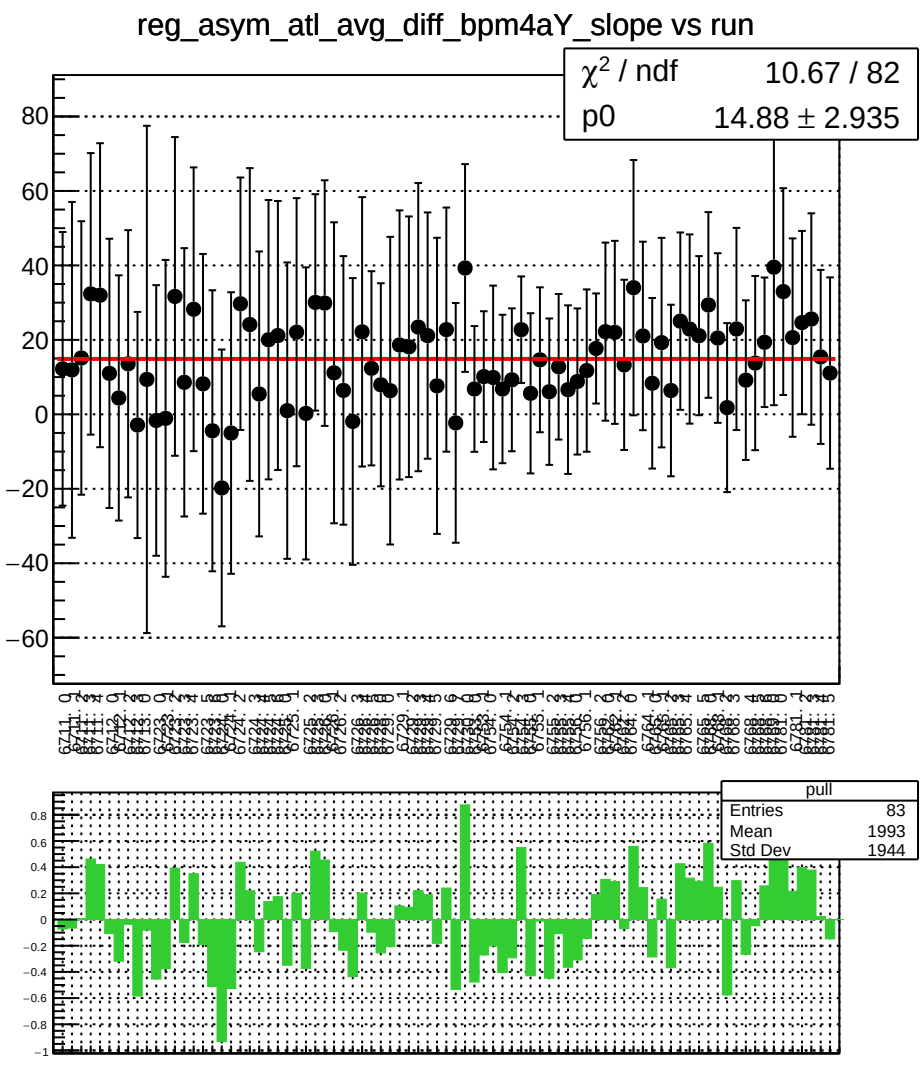

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 18.23 / 82
p0 559.5 ± 8.034
750
700
650
600
550
500
450
400
pull
Entries 83
Mean 826.2
Std Dev 767.5
1
0.5
0
−0.5
−1
pull1D
Entries 83
Mean 0.002563
Std Dev 0.4687
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

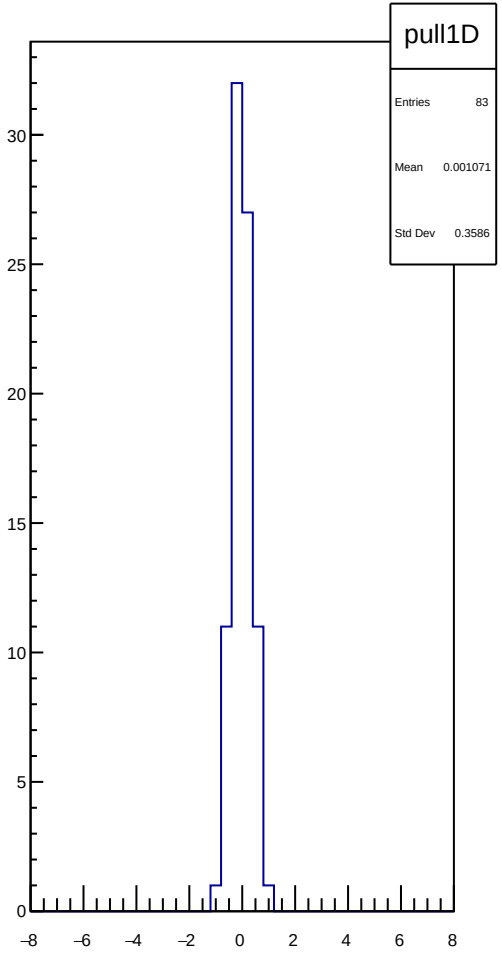

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 14.58 / 82
p0 93.39 ± 6.247
pull
Entries 83
Mean −96.6
Std Dev 138.7
pull1D
Entries 83
Mean 0.04111
Std Dev 0.4172

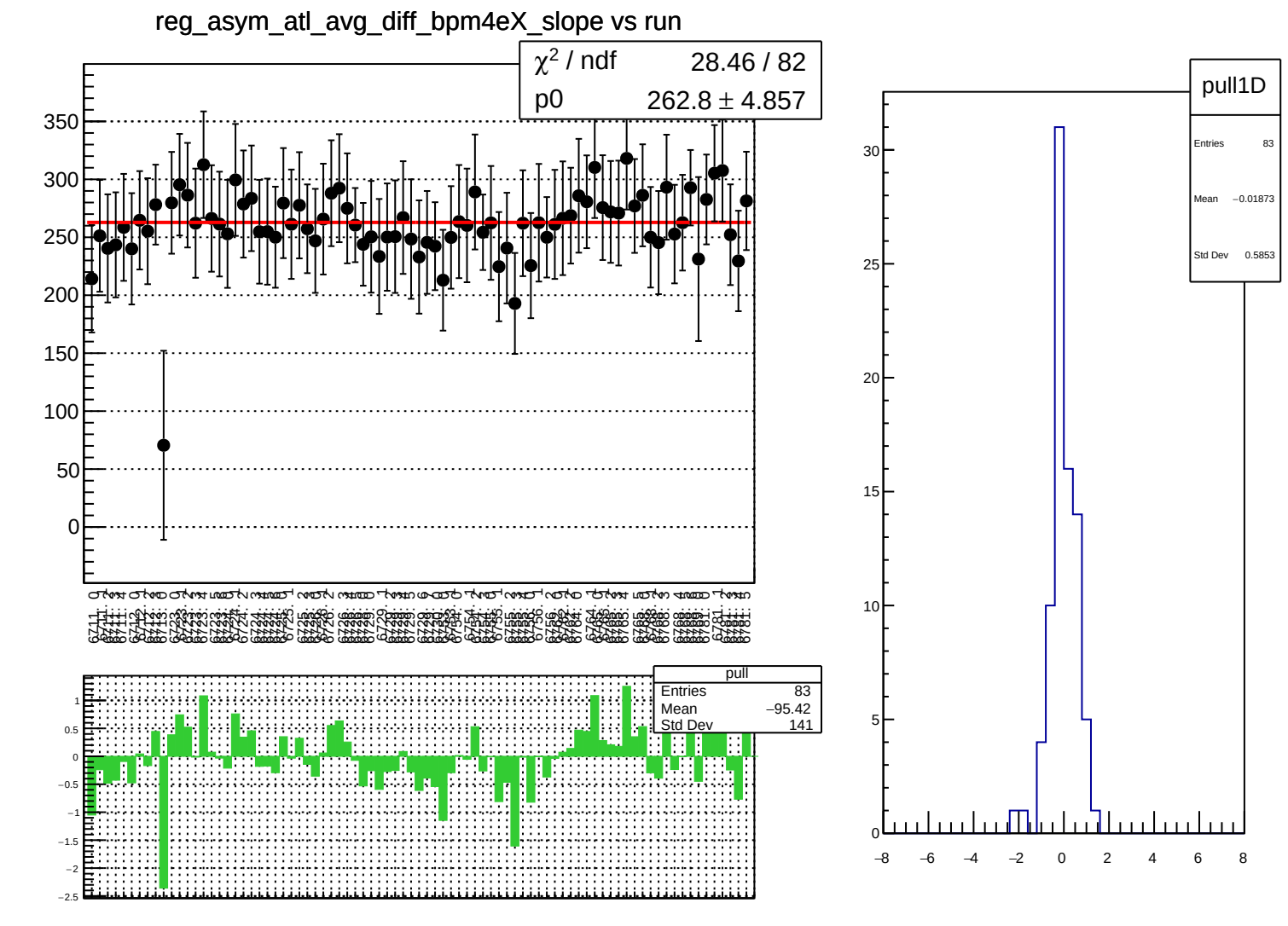

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 304.1 / 82
p0 −263.5 ± 0.3704
pull
Entries 83
Mean −243.3
Std Dev 288
pull1D
Entries 83
Mean −0.1191
Std Dev 1.911

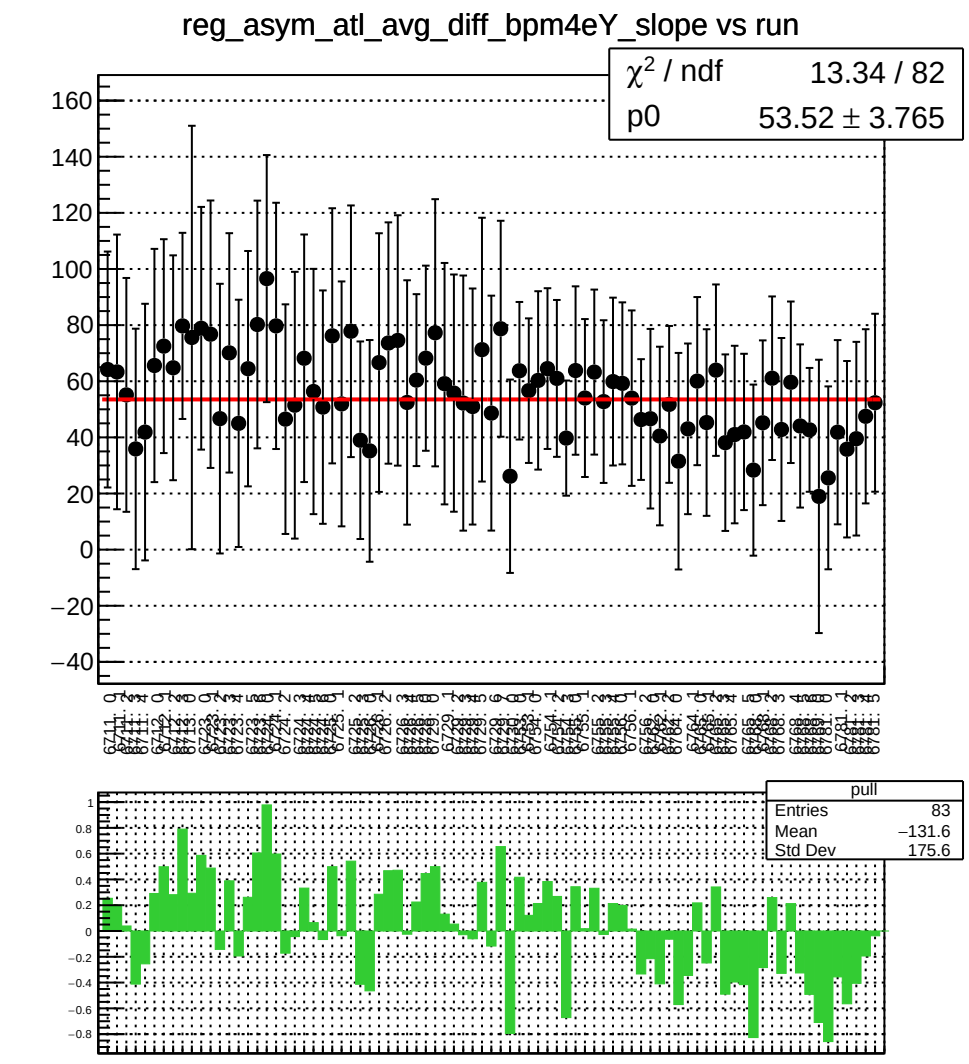

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 36.38 / 82
p0 −285.5 ± 5.086
pull
Entries 83
Mean −433.6
Std Dev 477.2

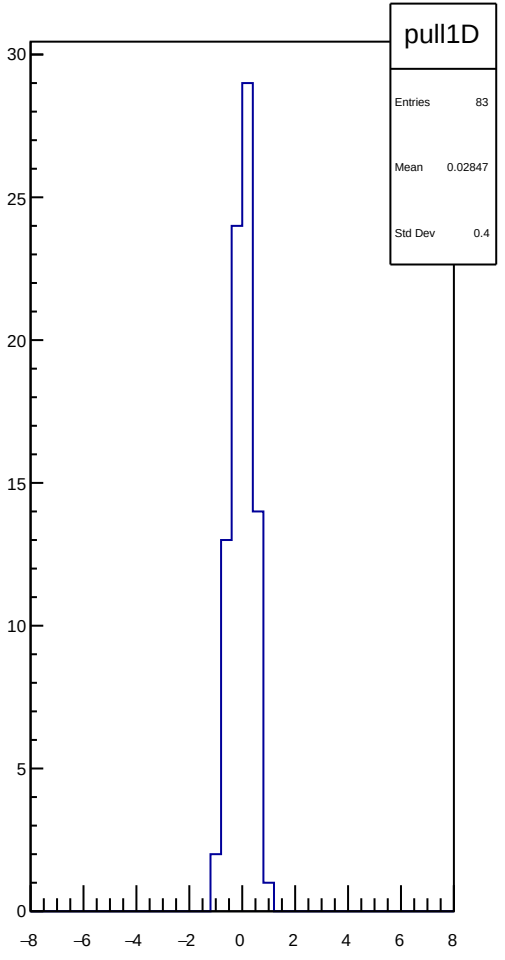

pull1D
Entries 83
Mean 0.01631
Std Dev 0.6618

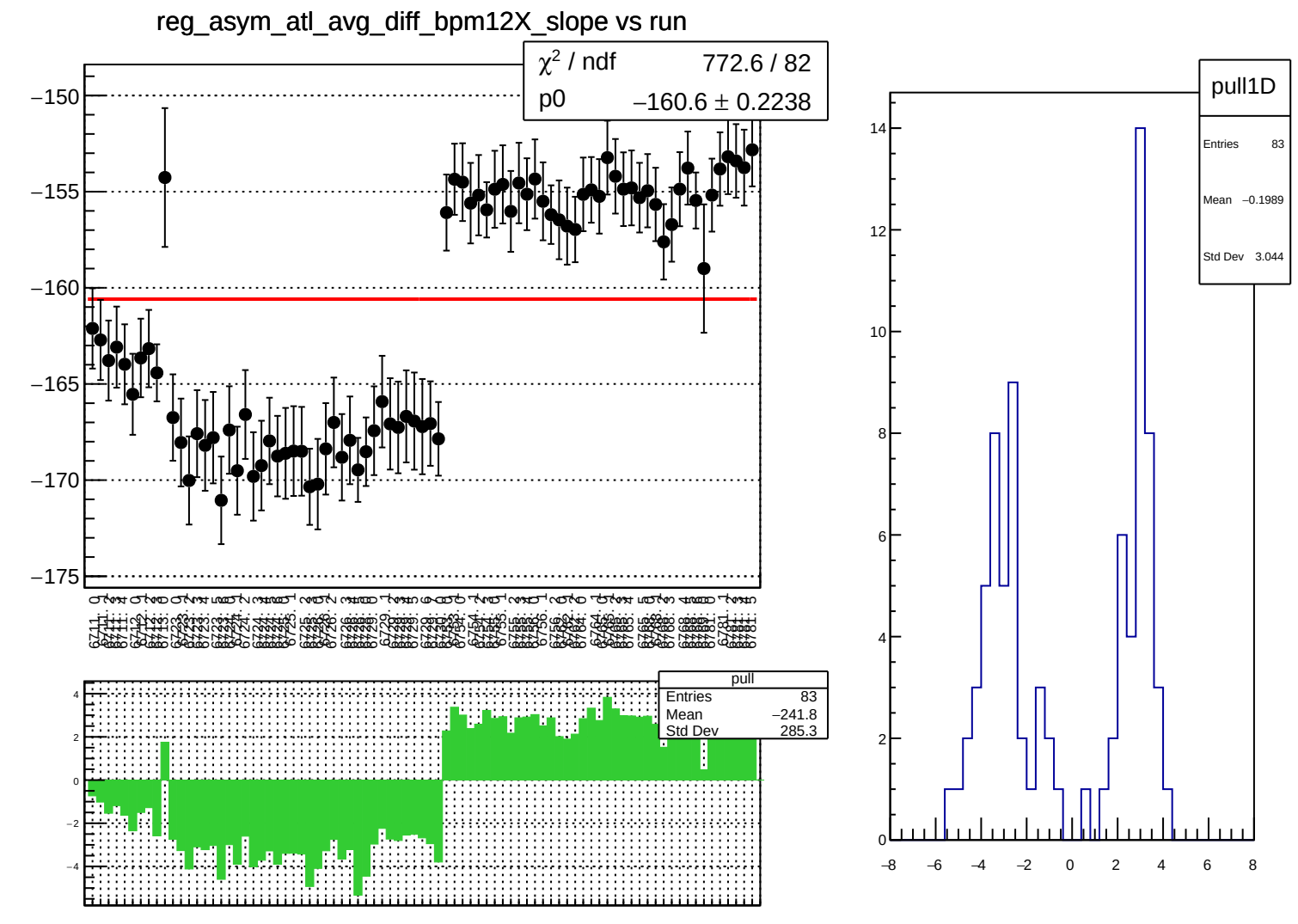

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.67 / 82
p0 14.88 ± 2.935
pull
Entries 83
Mean 1993
Std Dev 1944

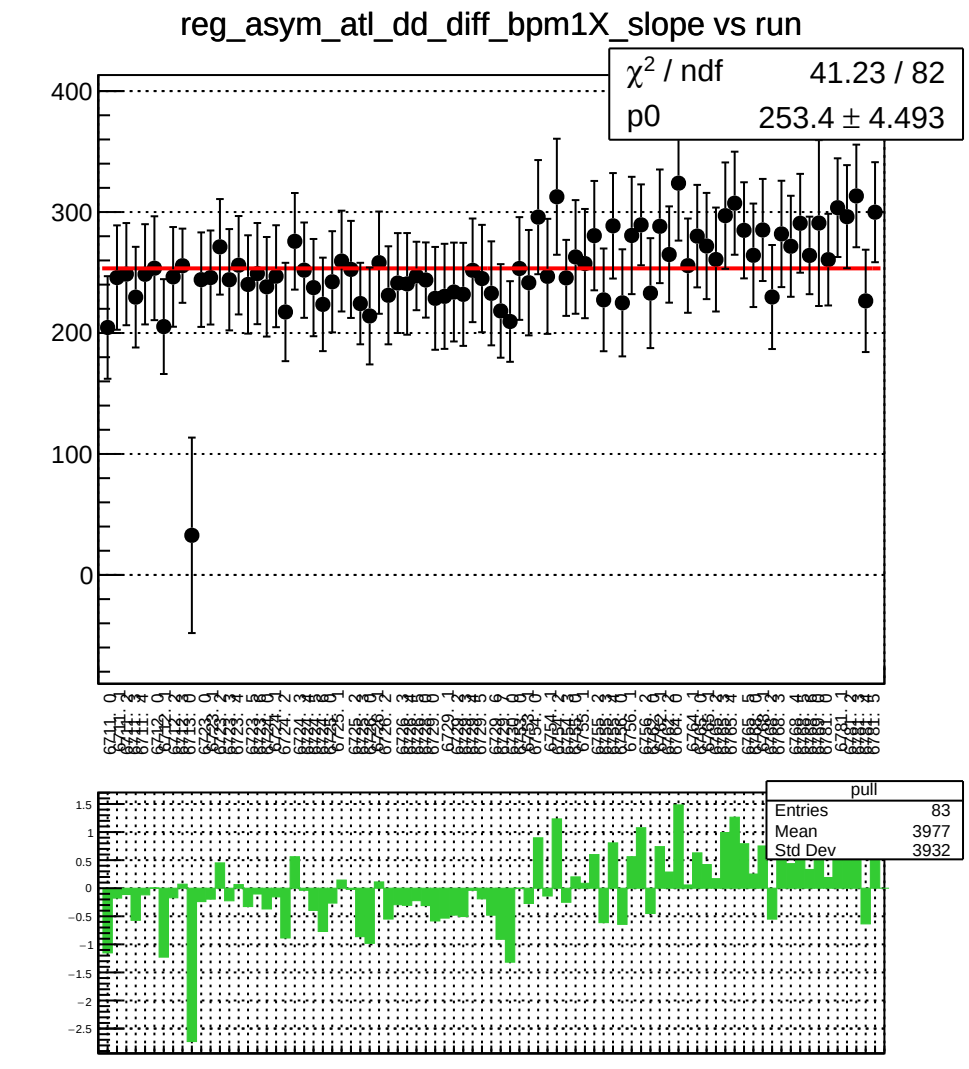

pull1D
Entries 83
Mean 0.001071
Std Dev 0.3586

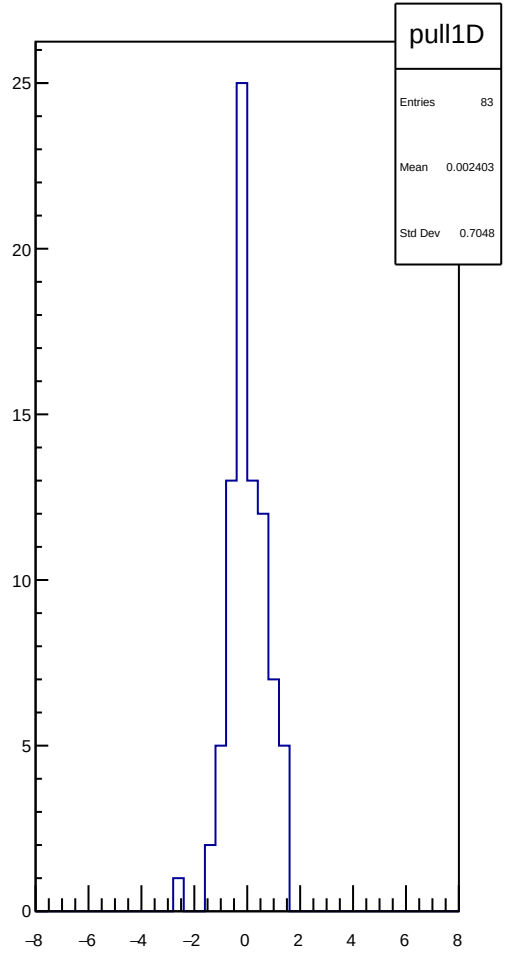

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.46 / 82
p0 262.8 ± 4.857
pull
Entries 83
Mean −95.42
Std Dev 141
pull1D
Entries 83
Mean −0.01873
Std Dev 0.5853

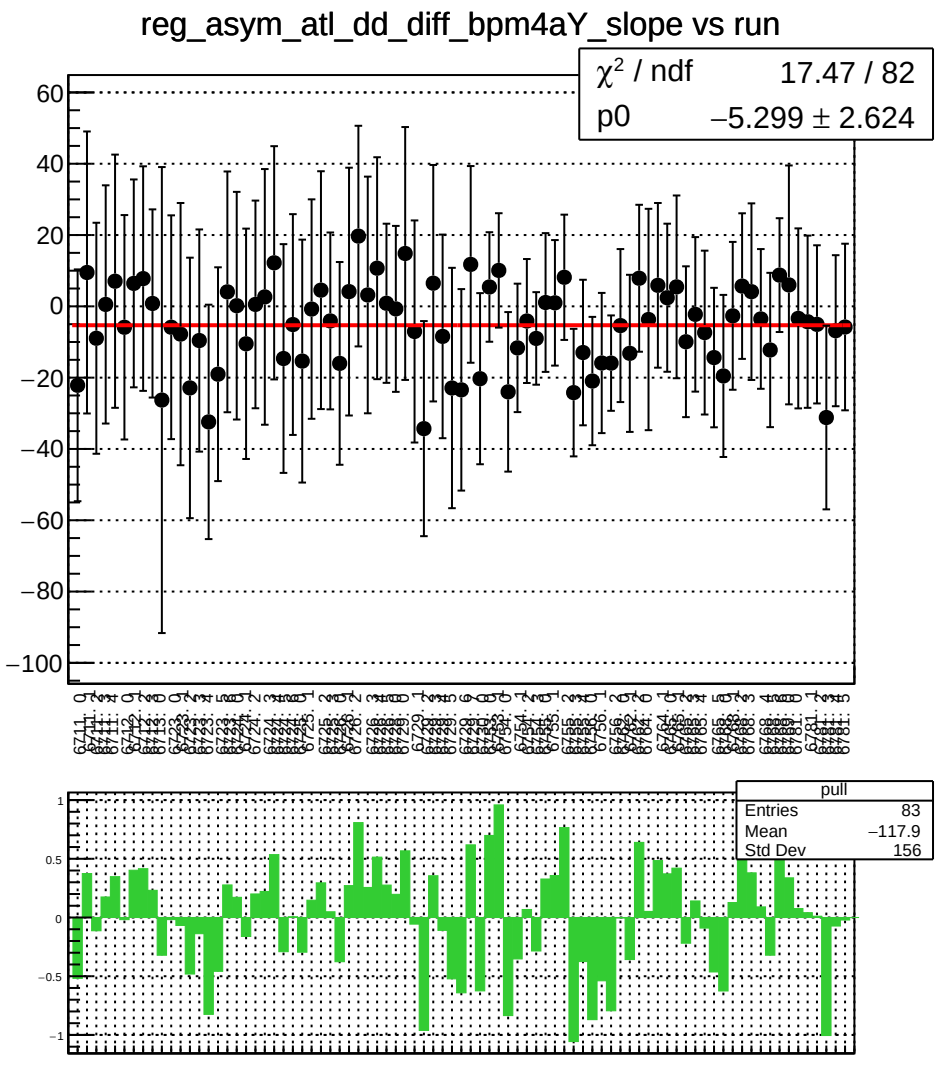

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.34 / 82
p0 53.52 ± 3.765
pull
Entries 83
Mean −131.6
Std Dev 175.6

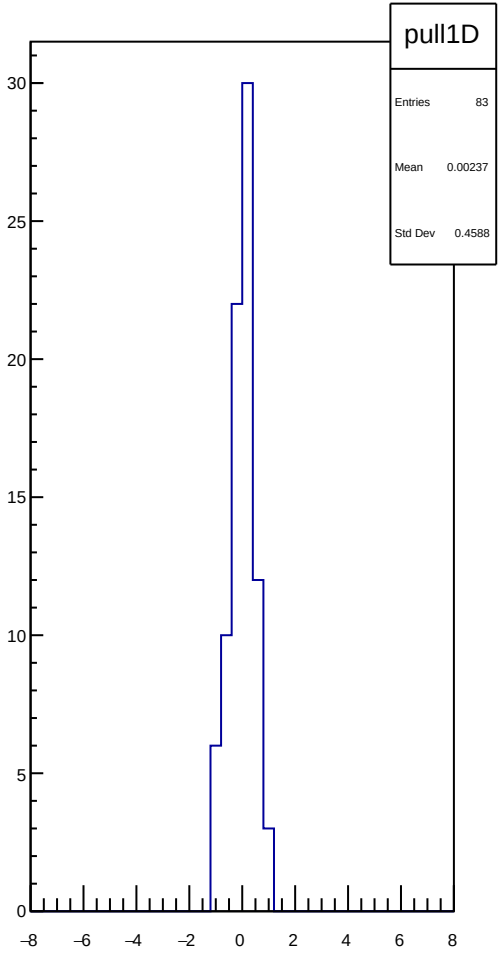

pull1D
Entries 83
Mean 0.02847
Std Dev 0.4

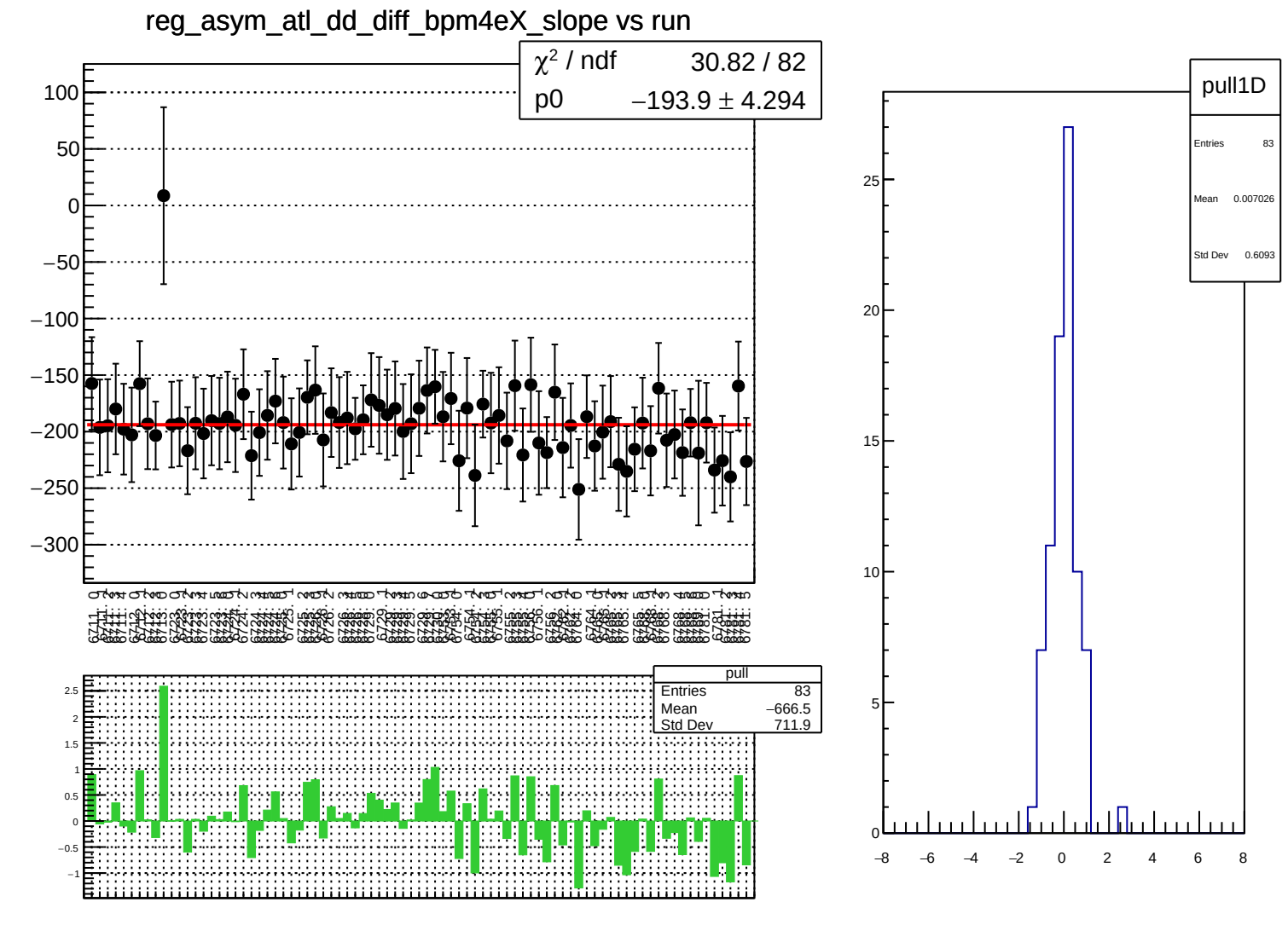

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 772.6 / 82
p0 −160.6 ± 0.2238
−150
−155
−160
−165
−170
−175
pull
Entries 83
Mean −241.8
Std Dev 285.3
pull1D
Entries 83
Mean −0.1989
Std Dev 3.044

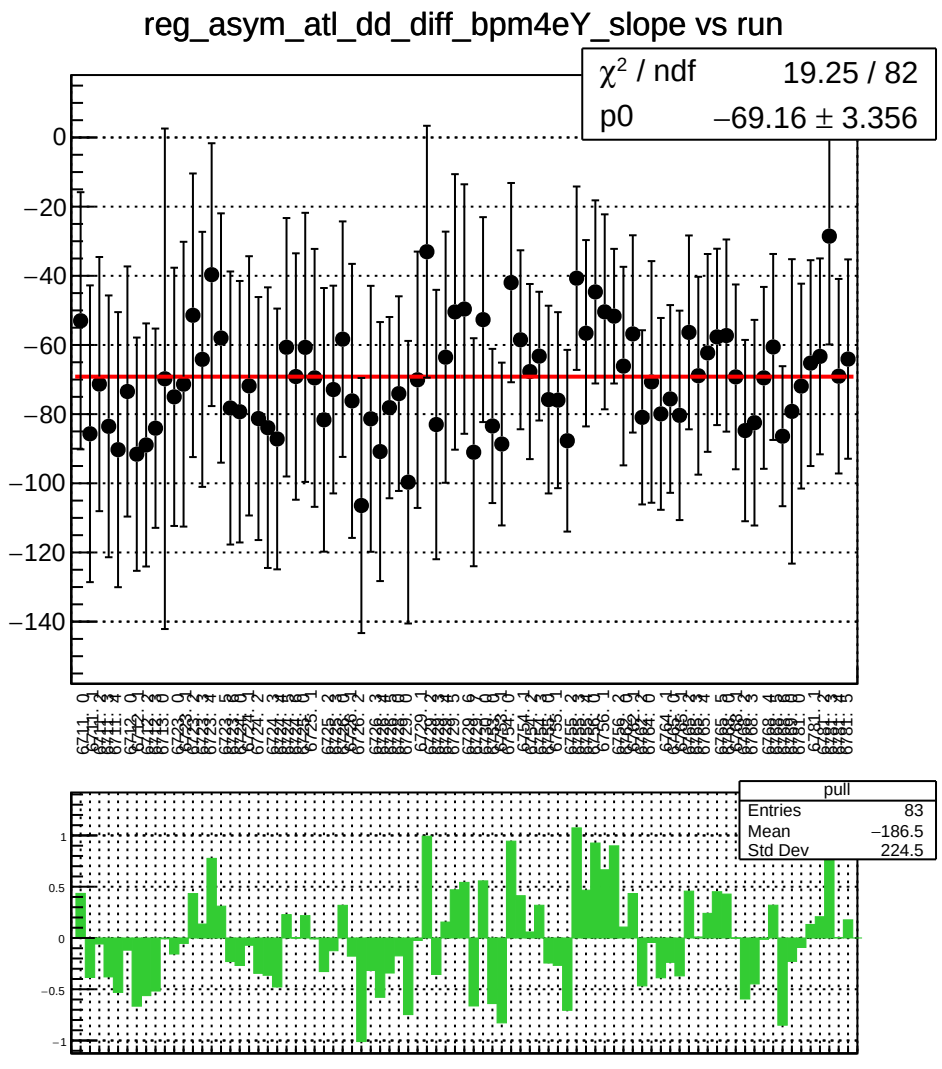

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 41.23 / 82
p0 253.4 ± 4.493
400
300
200
100
0
pull
Entries 83
Mean 3977
Std Dev 3932
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

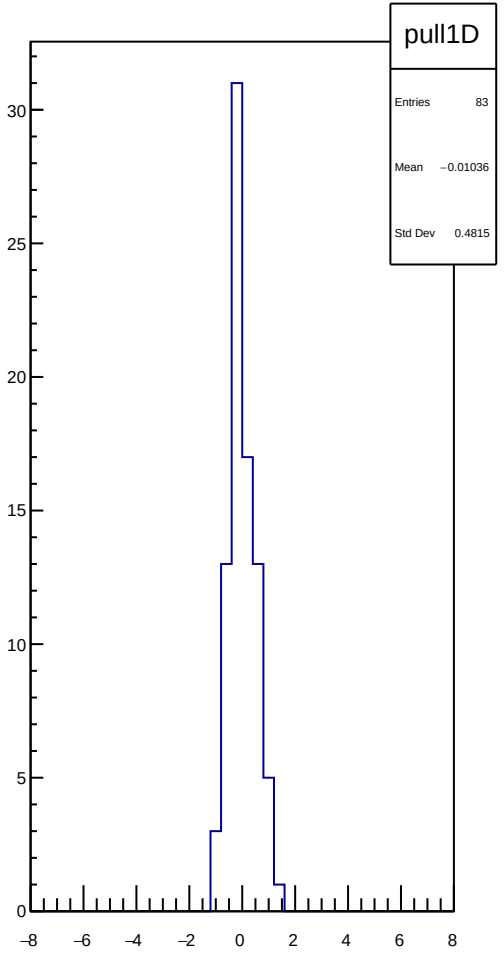

pull1D
Entries 83
Mean 0.002403
Std Dev 0.7048
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

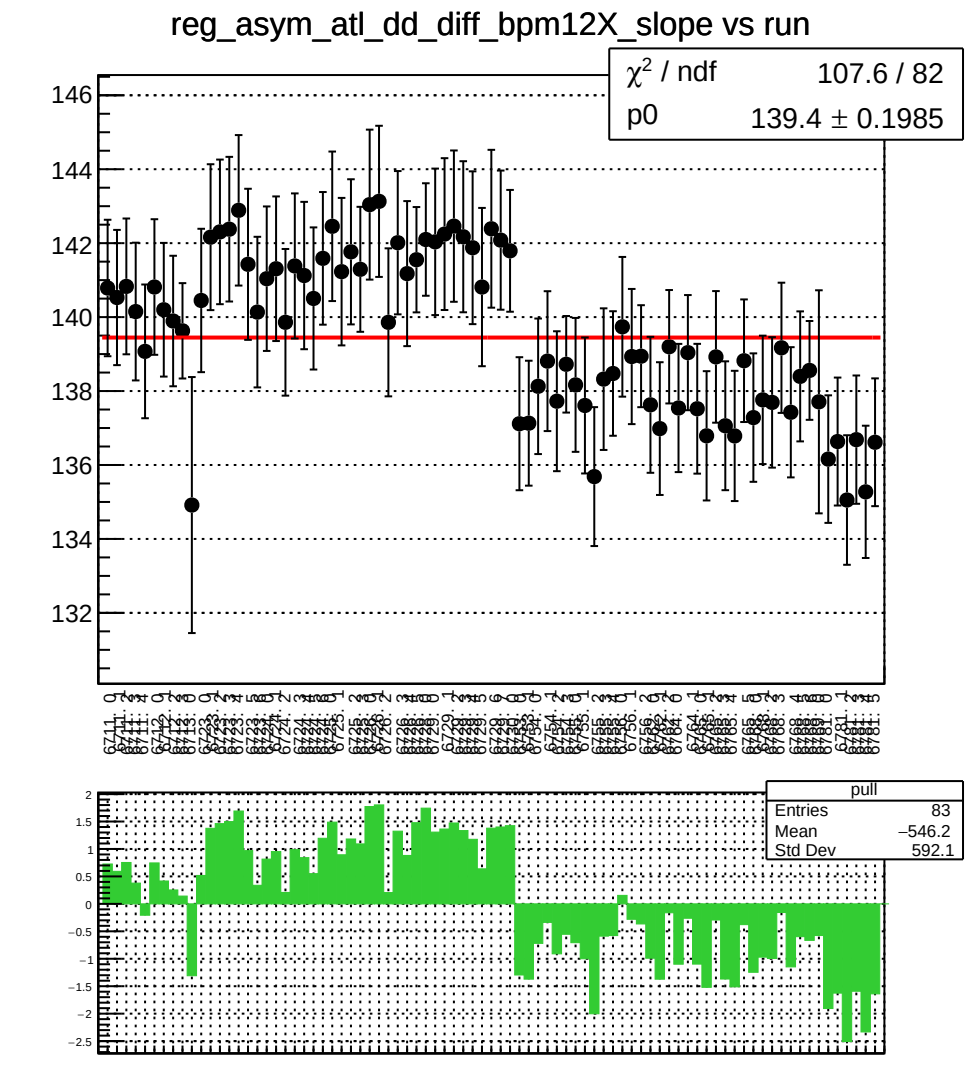

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.47 / 82
p0 −5.299 ± 2.624
pull
Entries 83
Mean −117.9
Std Dev 156

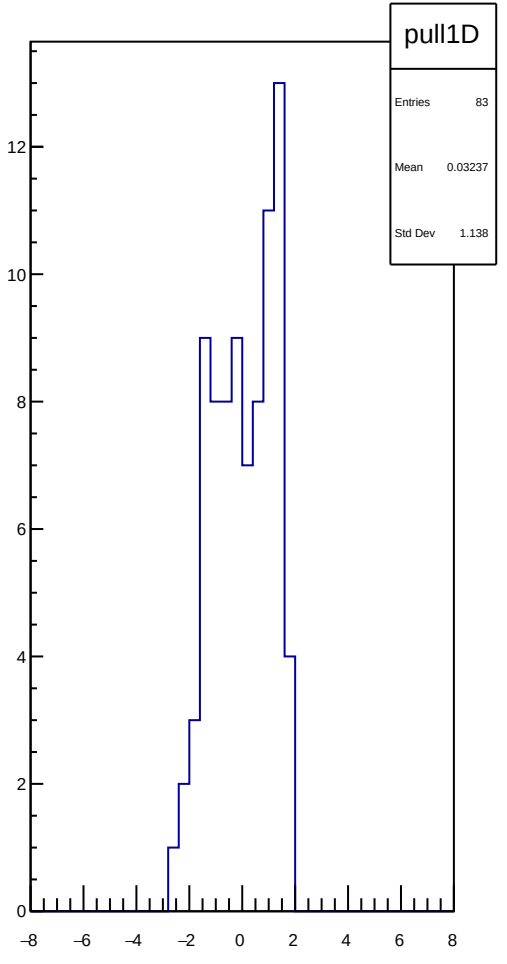

pull1D
Entries 83
Mean 0.00237
Std Dev 0.4588

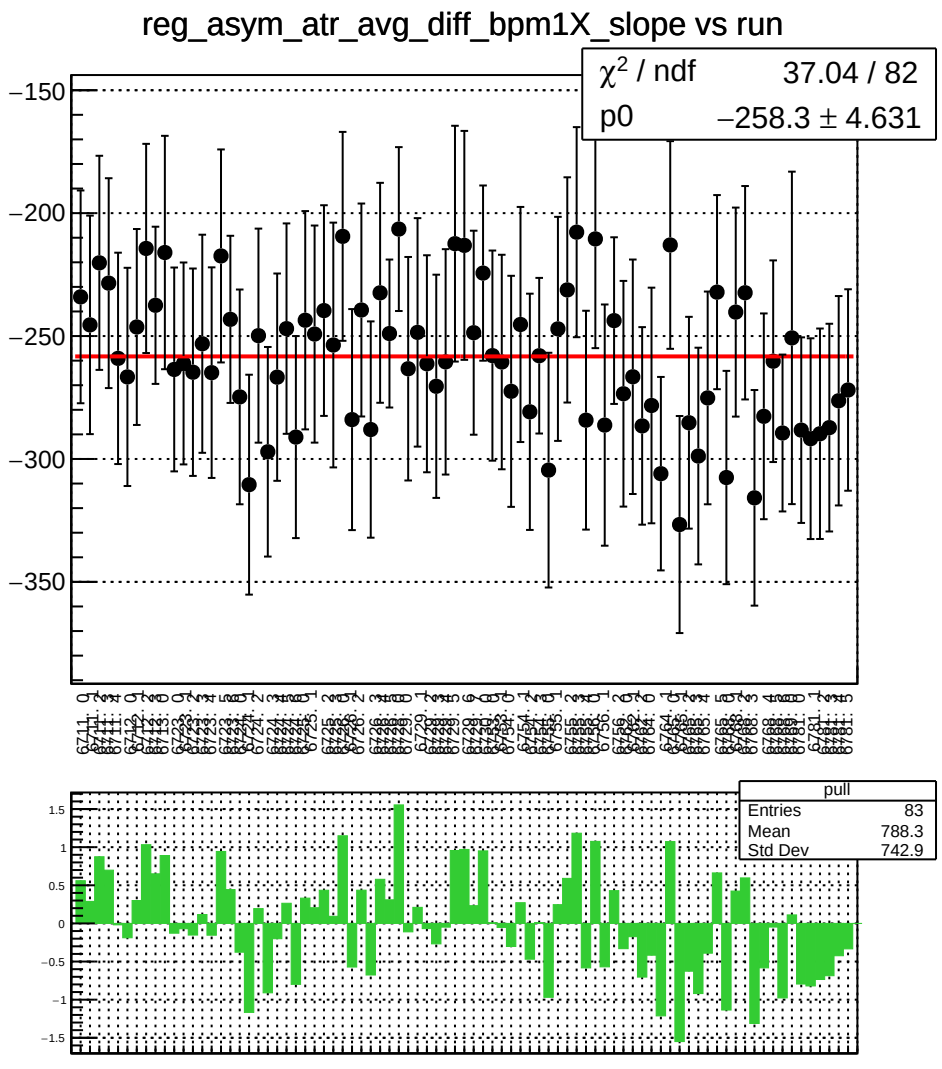

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.82 / 82
p0 −193.9 ± 4.294
pull
Entries 83
Mean −666.5
Std Dev 711.9
pull1D
Entries 83
Mean 0.007026
Std Dev 0.6093

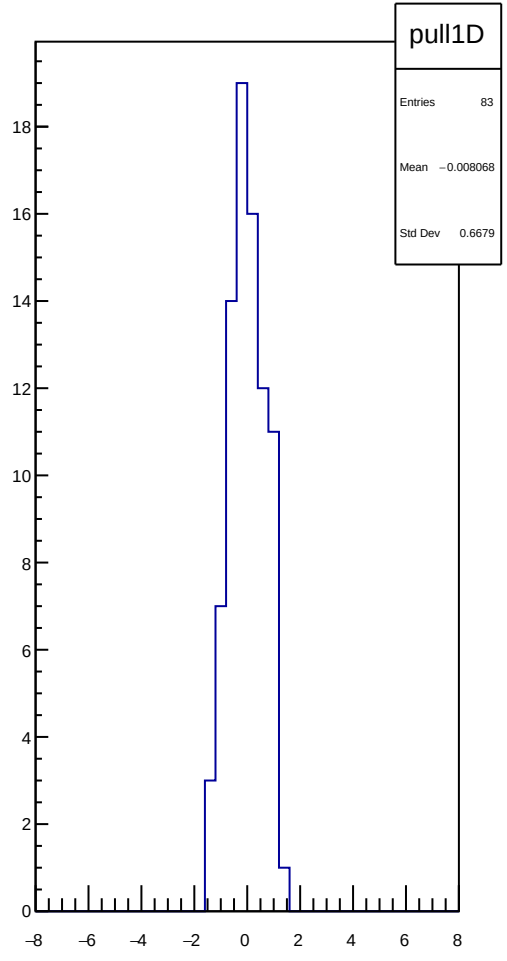

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.25 / 82
p0 −69.16 ± 3.356
pull
Entries 83
Mean −186.5
Std Dev 224.5

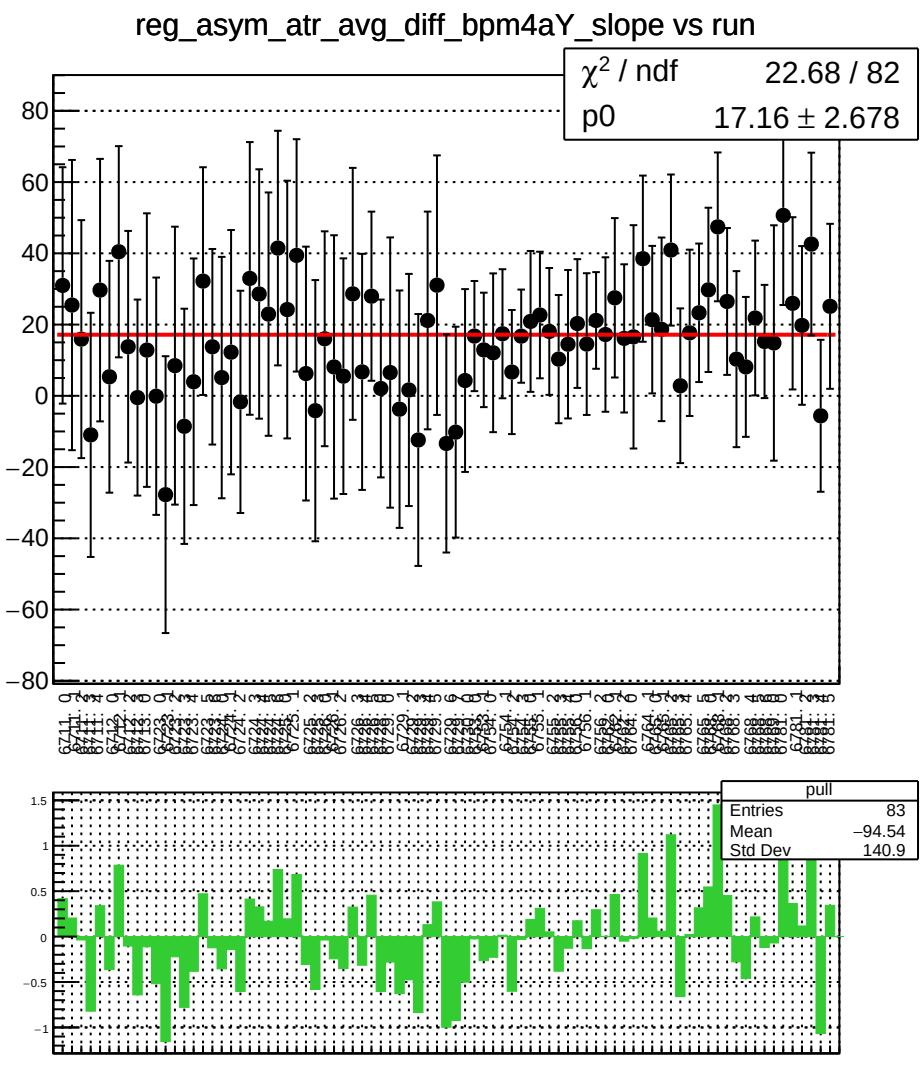

pull1D
Entries 83
Mean −0.01036
Std Dev 0.4815

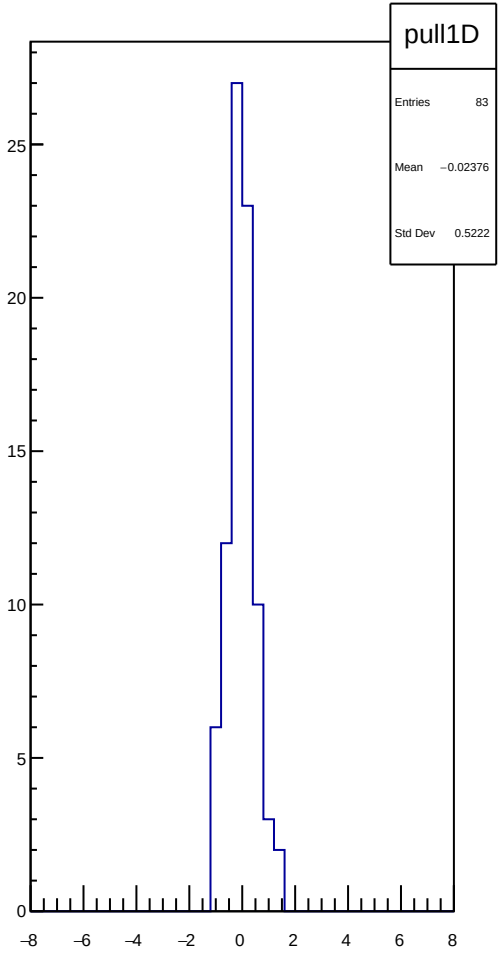

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 107.6 / 82
p0 139.4 ± 0.1985
pull
Entries 83
Mean −546.2
Std Dev 592.1

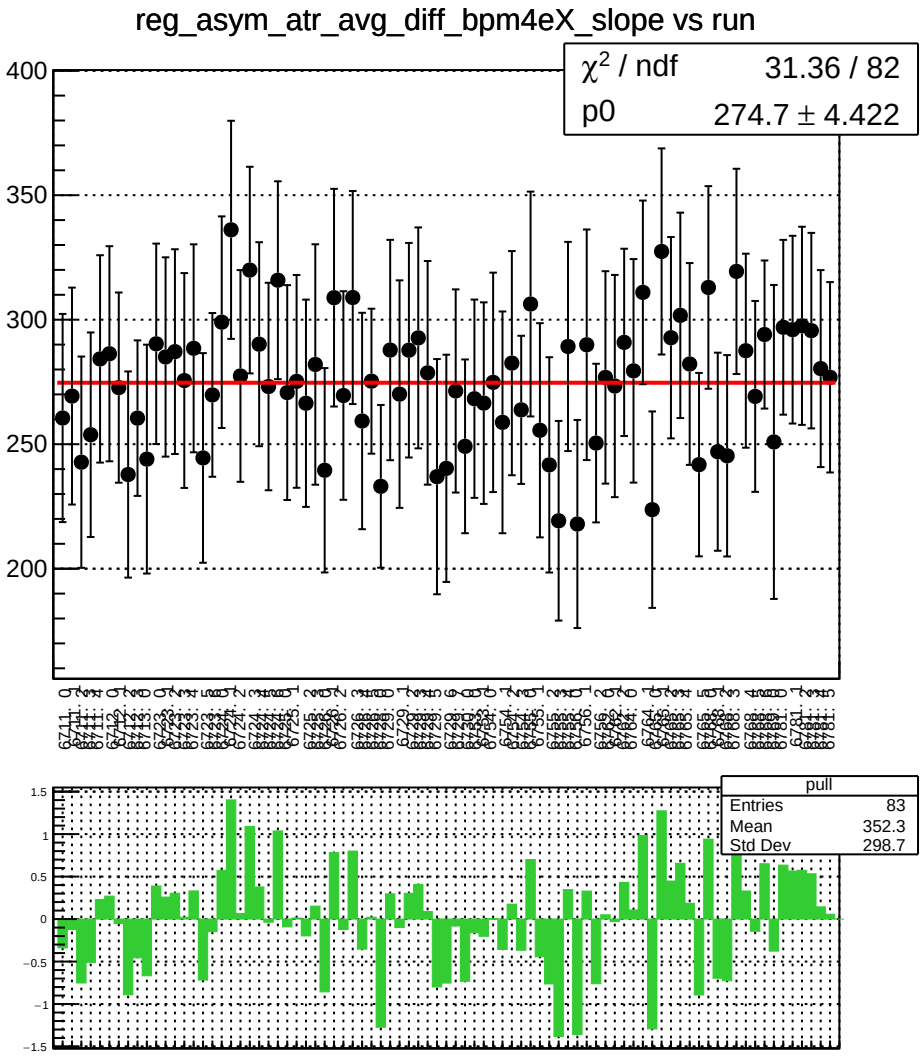

pull1D
Entries 83
Mean 0.03237
Std Dev 1.138

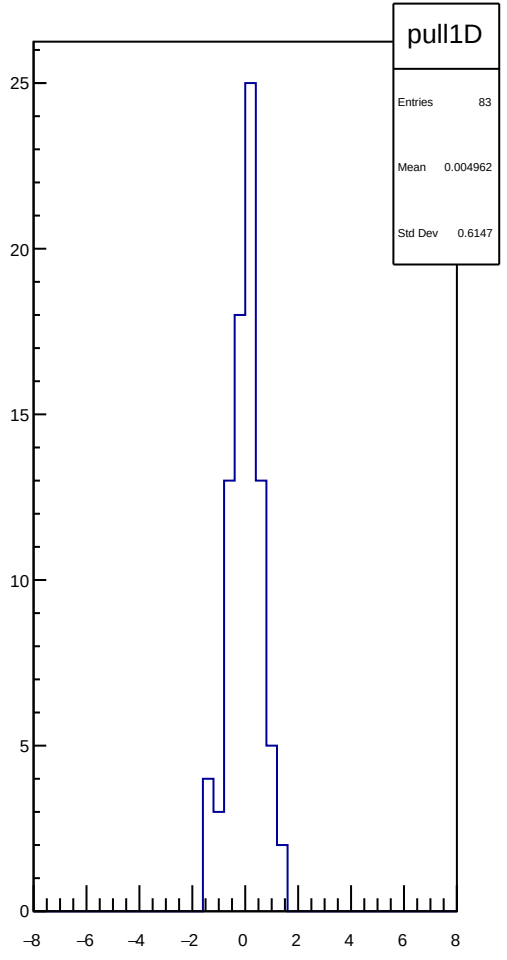

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ^2 / ndf 37.04 / 82
p0 −258.3 ± 4.631
−150
−200
−250
−300
−350
pull
Entries 83
Mean 788.3
Std Dev 742.9
1.5
1
0.5
0
−0.5
−1
−1.5

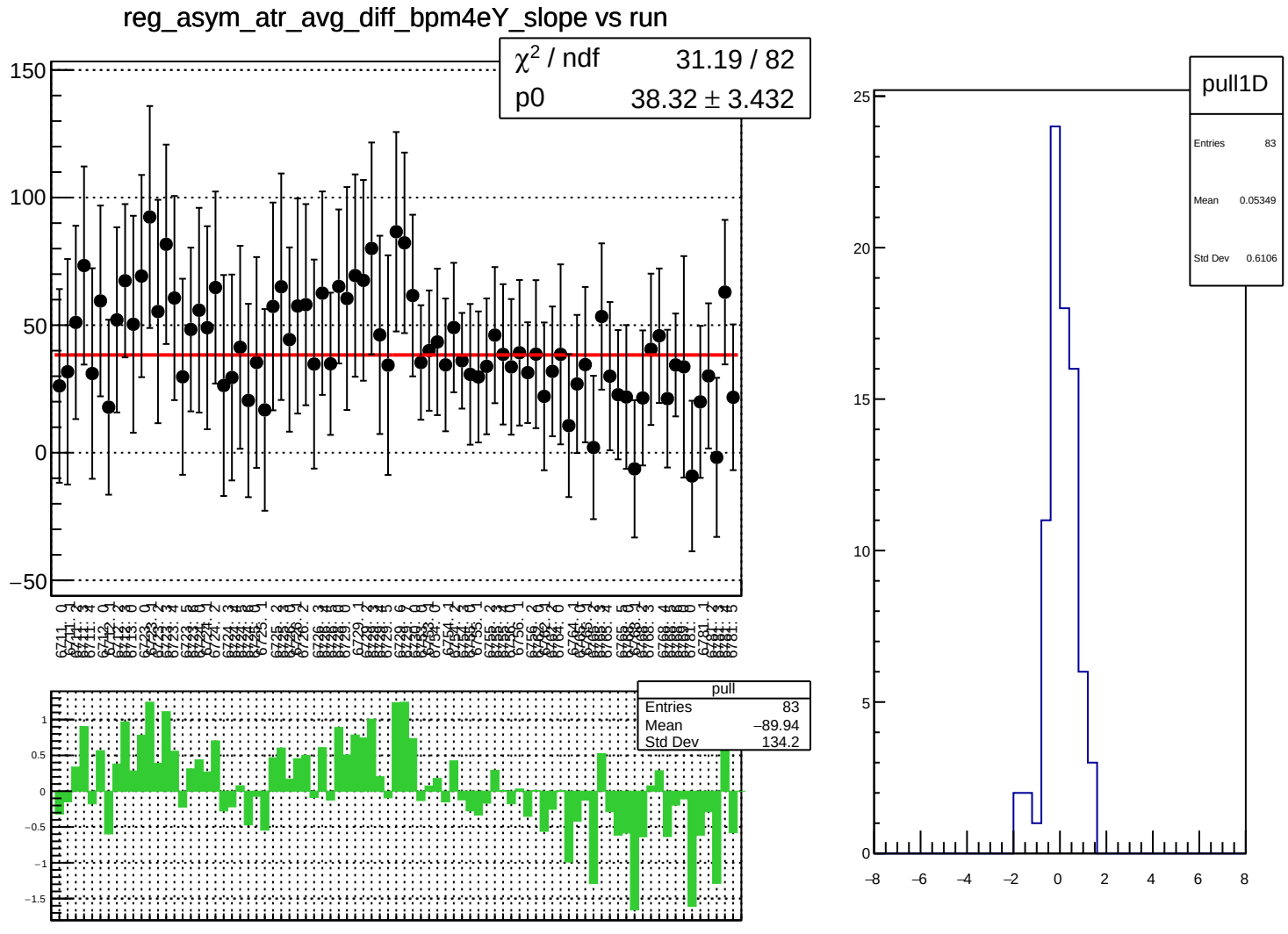

pull1D
Entries 83
Mean −0.008068
Std Dev 0.6679
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

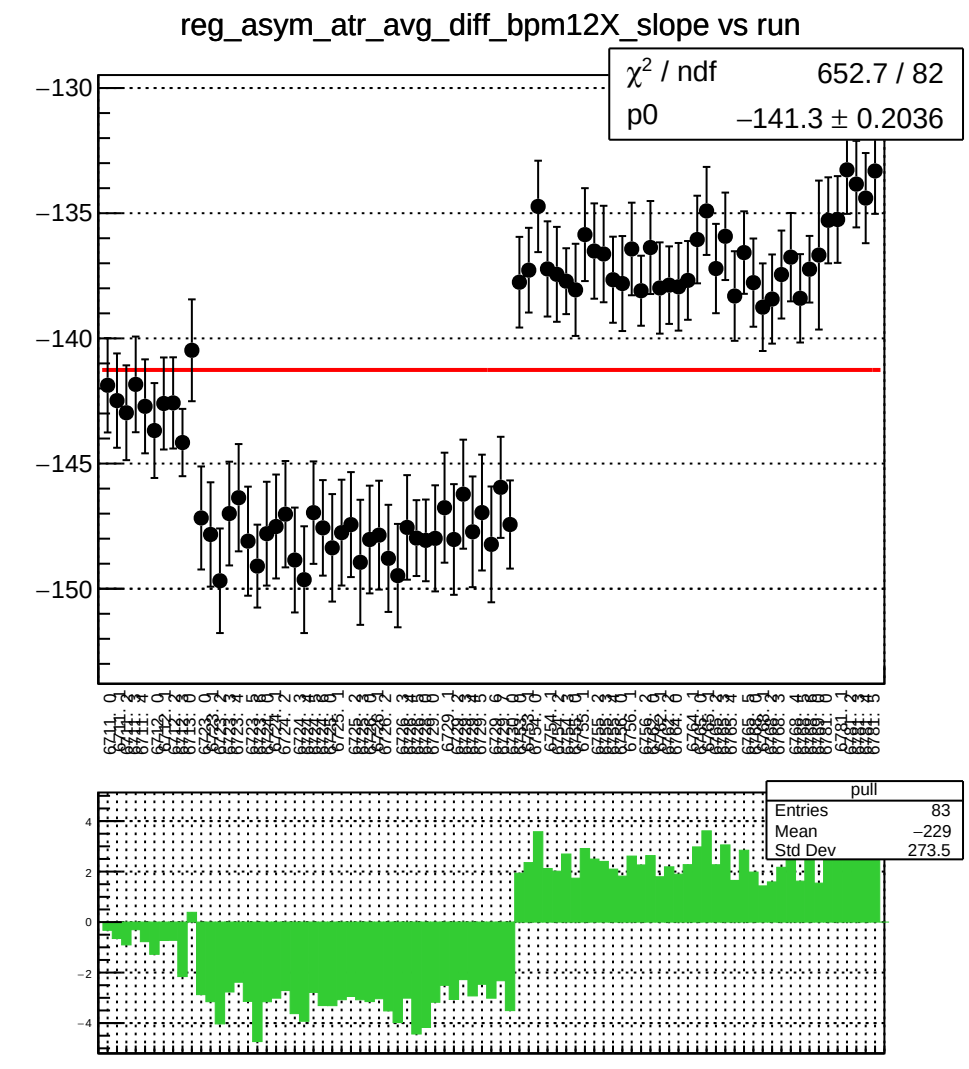

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.68 / 82
p0 17.16 ± 2.678
pull
Entries 83
Mean −94.54
Std Dev 140.9

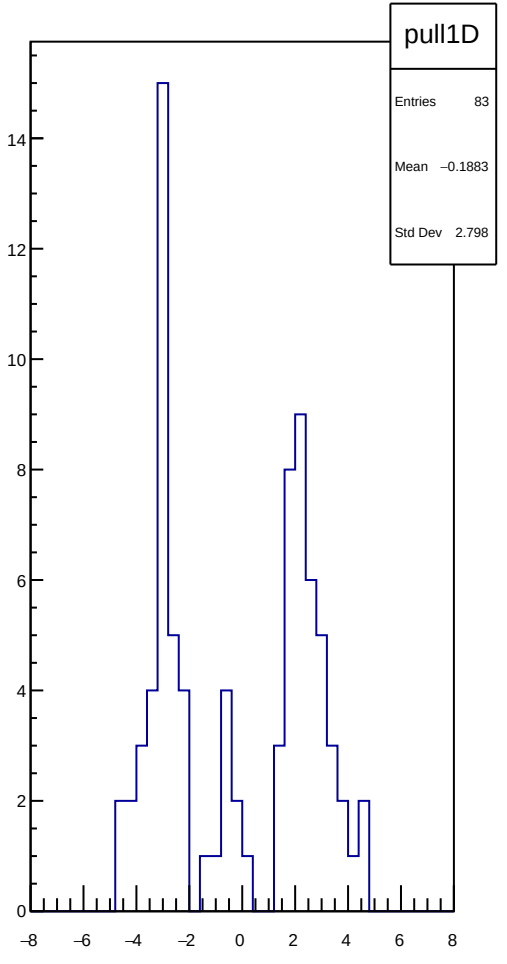

pull1D
Entries 83
Mean −0.02376
Std Dev 0.5222

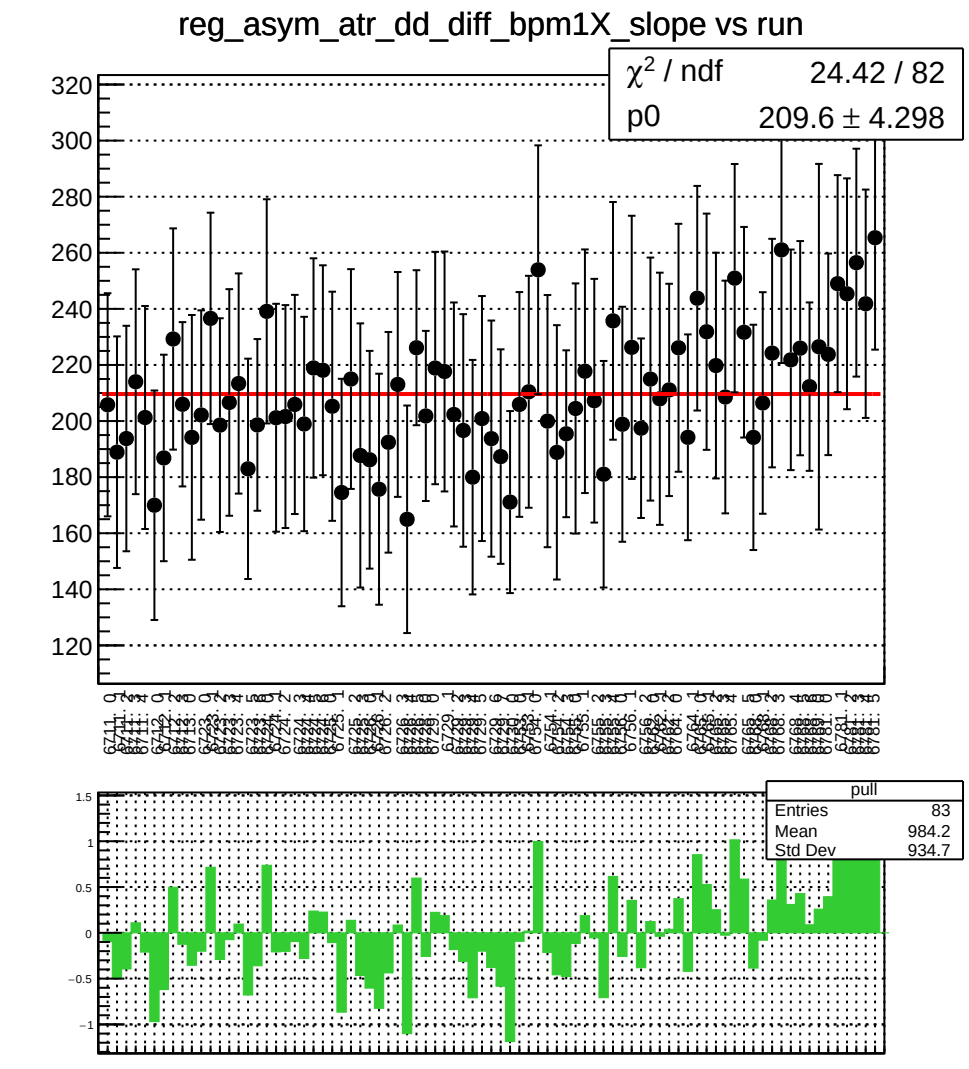

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.36 / 82
p0 274.7 ± 4.422
400
350
300
250
200
pull
Entries 83
Mean 352.3
Std Dev 298.7
1.5
1
0.5
0
−0.5
−1
−1.5

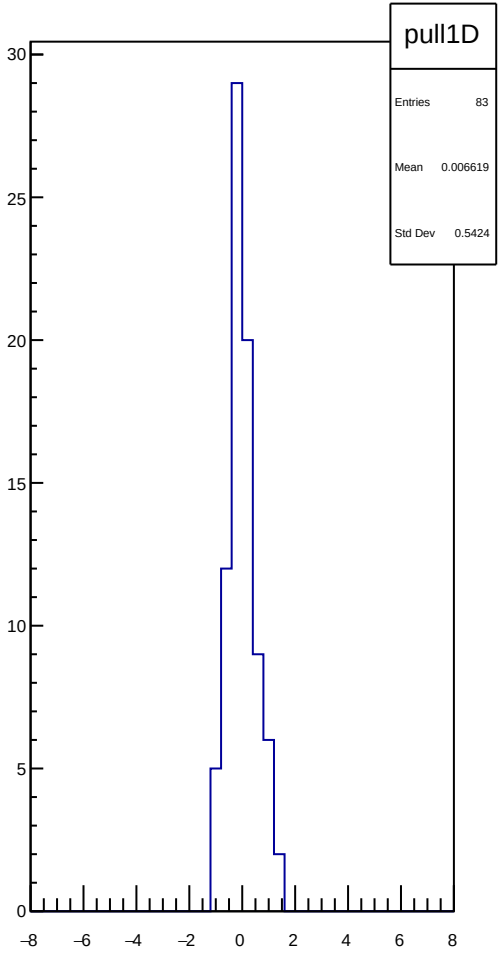

pull1D
Entries 83
Mean 0.004962
Std Dev 0.6147
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

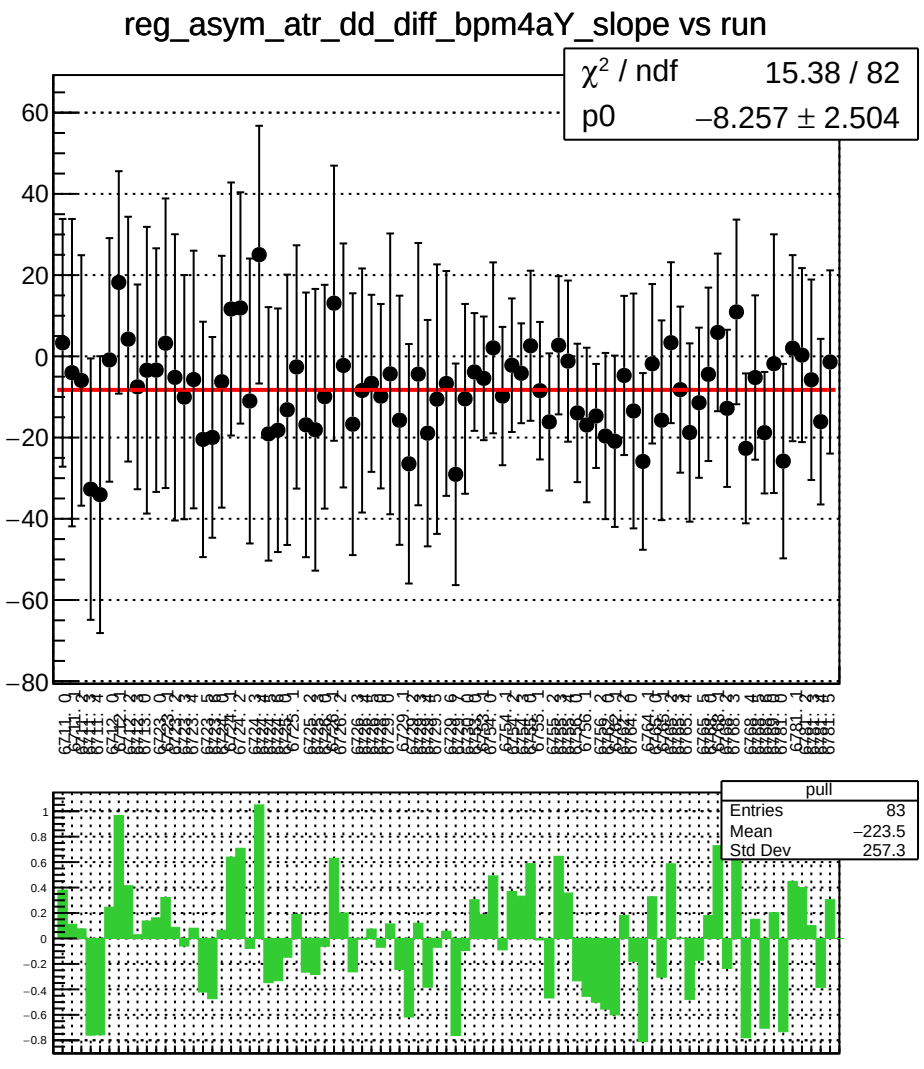

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.19 / 82
p0 38.32 ± 3.432
150
100
50
0
−50
pull
Entries 83
Mean −89.94
Std Dev 134.2
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean 0.05349
Std Dev 0.6106
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

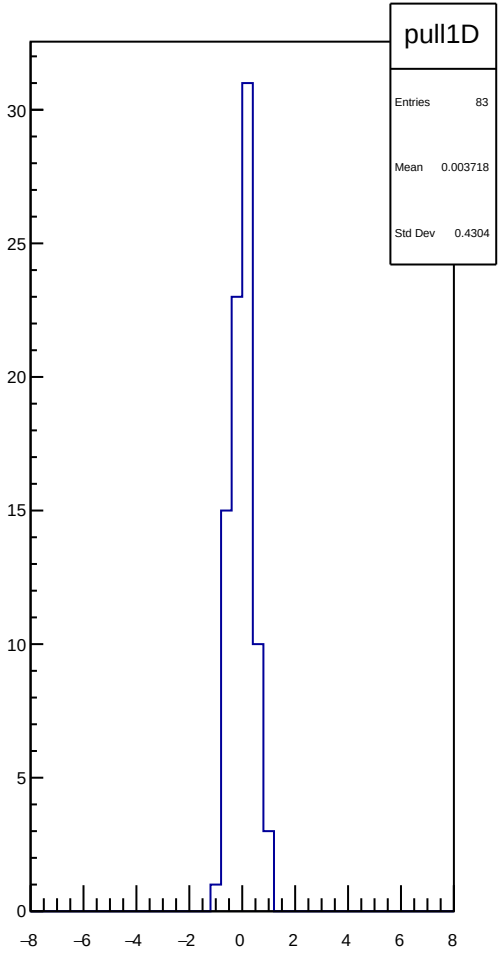

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 652.7 / 82
p0 −141.3 ± 0.2036
−130
−135
−140
−145
−150
pull
Entries 83
Mean −229
Std Dev 273.5
4
2
0
−2
−4

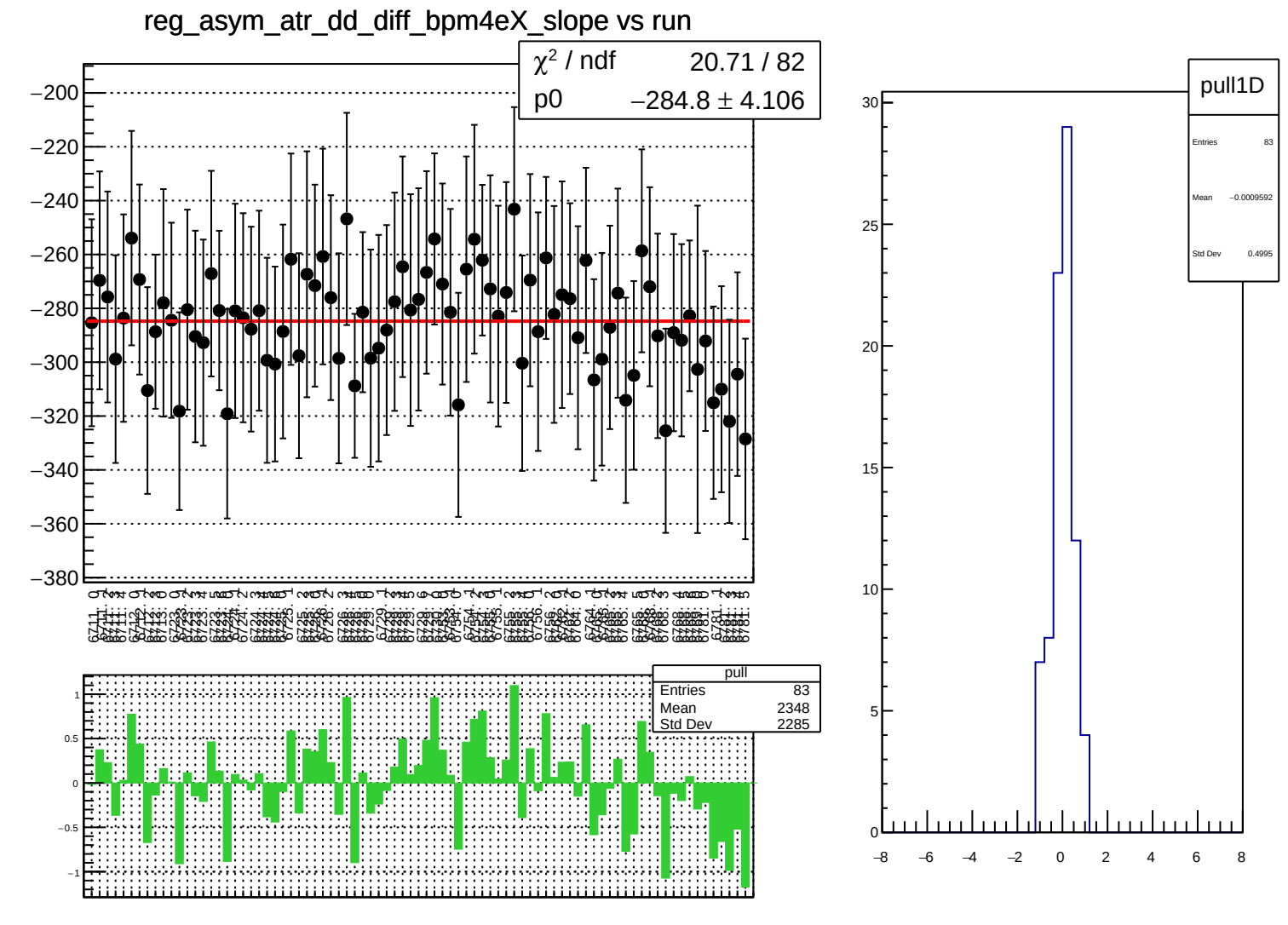

pull1D
Entries 83
Mean −0.1883
Std Dev 2.798
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

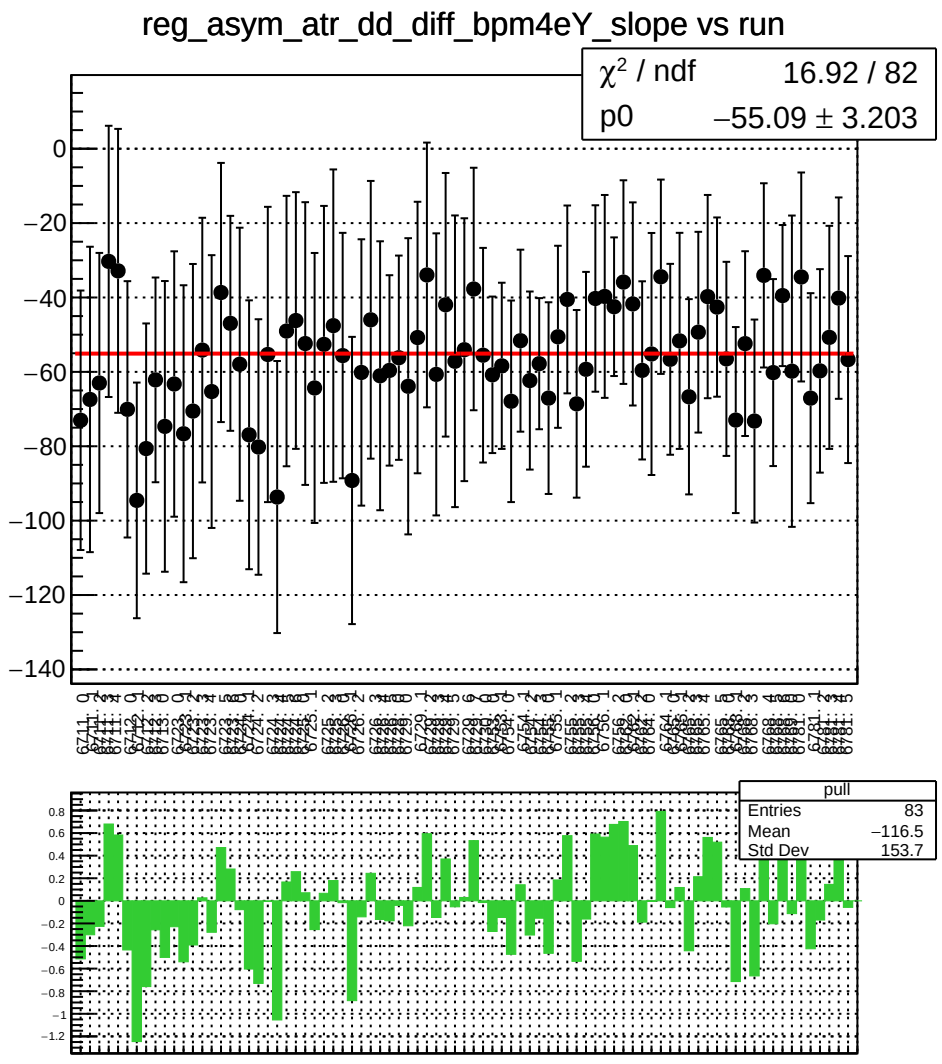

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 24.42 / 82
p0 209.6 ± 4.298
pull
Entries 83
Mean 984.2
Std Dev 934.7

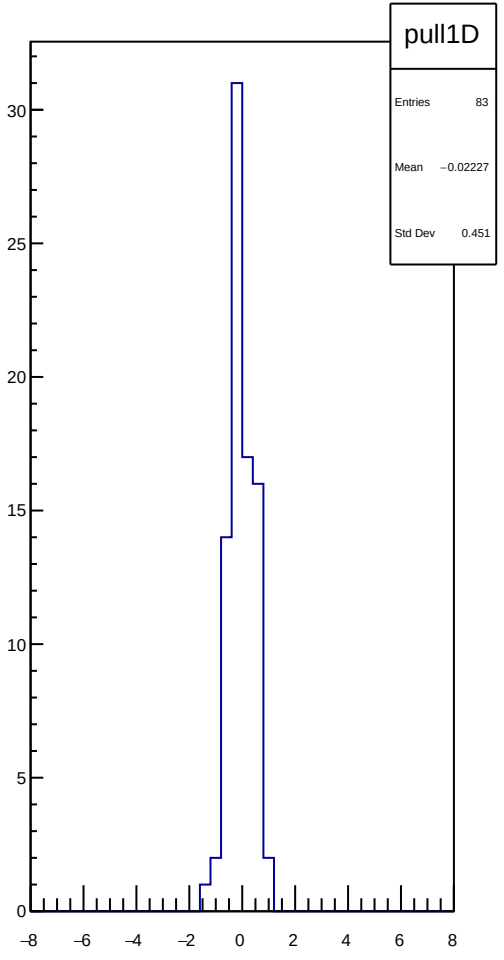

pull1D
Entries 83
Mean 0.006619
Std Dev 0.5424

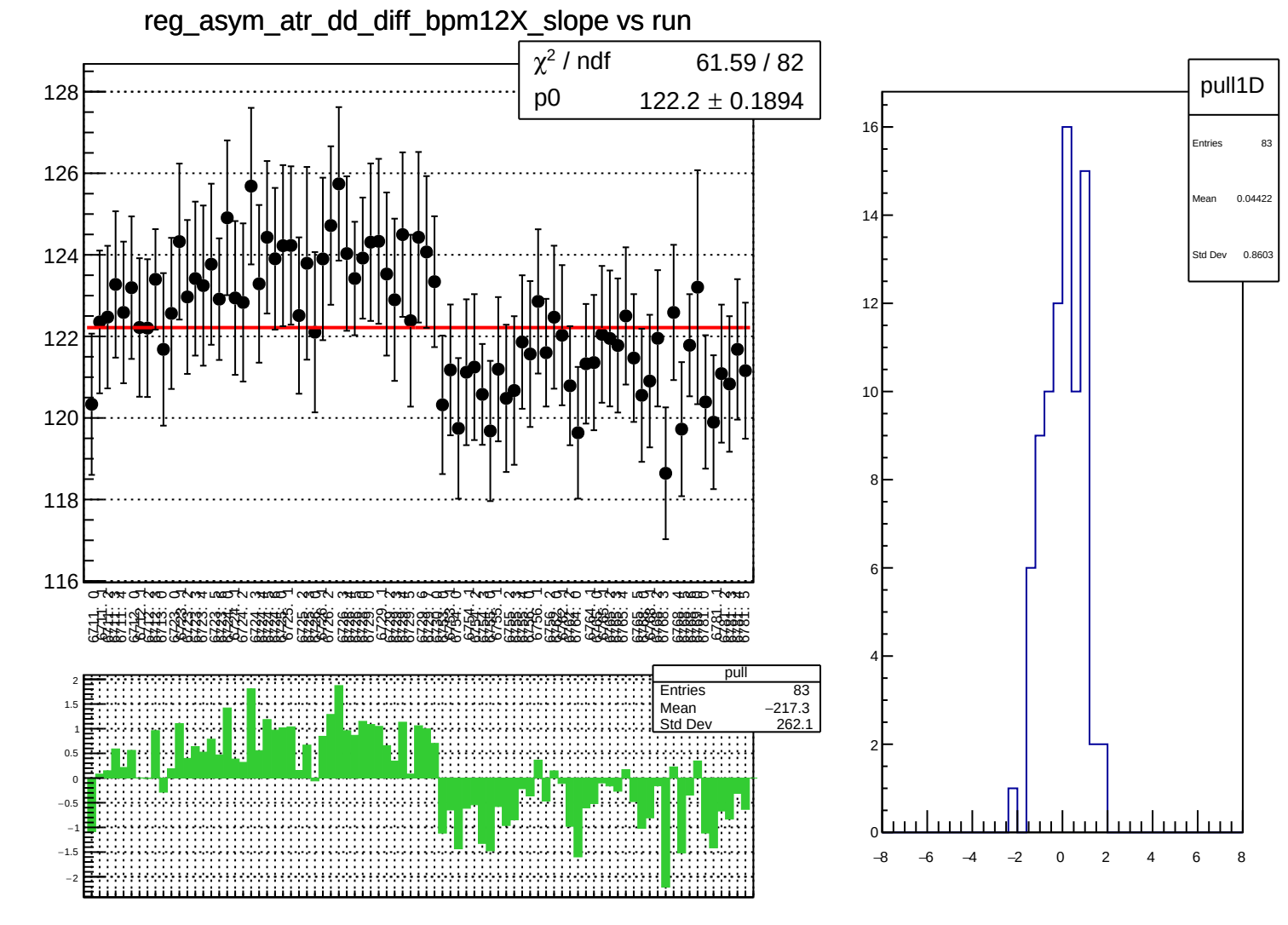

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.38 / 82
p0 −8.257 ± 2.504
pull
Entries 83
Mean −223.5
Std Dev 257.3

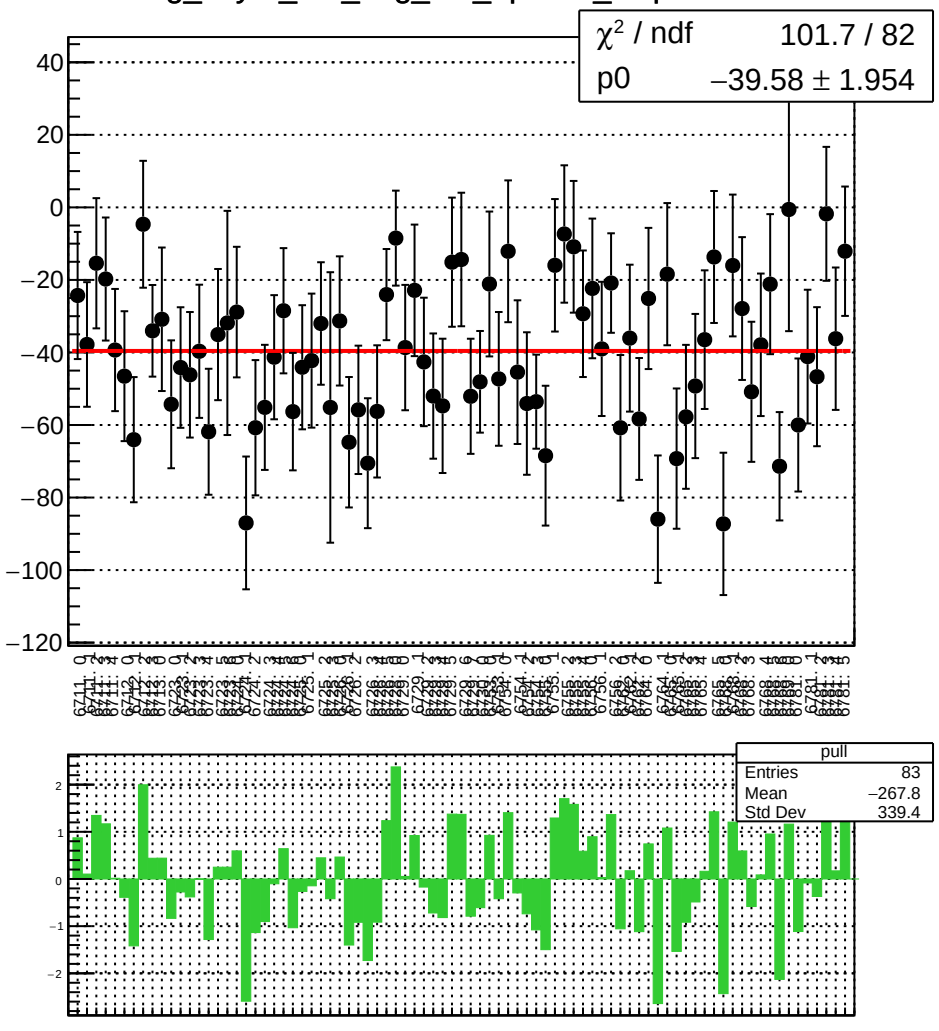

pull1D
Entries 83
Mean 0.003718
Std Dev 0.4304

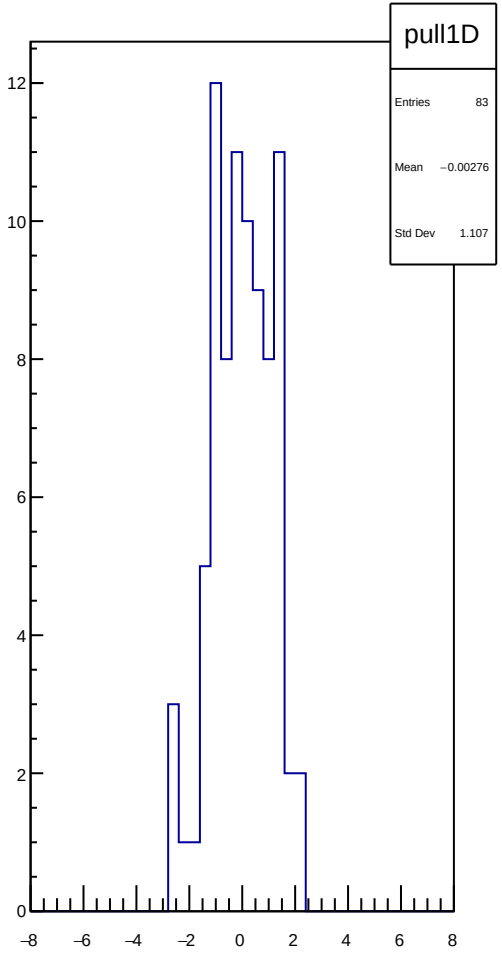

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.71 / 82
p0 −284.8 ± 4.106
pull
Entries 83
Mean 2348
Std Dev 2285
pull1D
Entries 83
Mean −0.0009592
Std Dev 0.4995

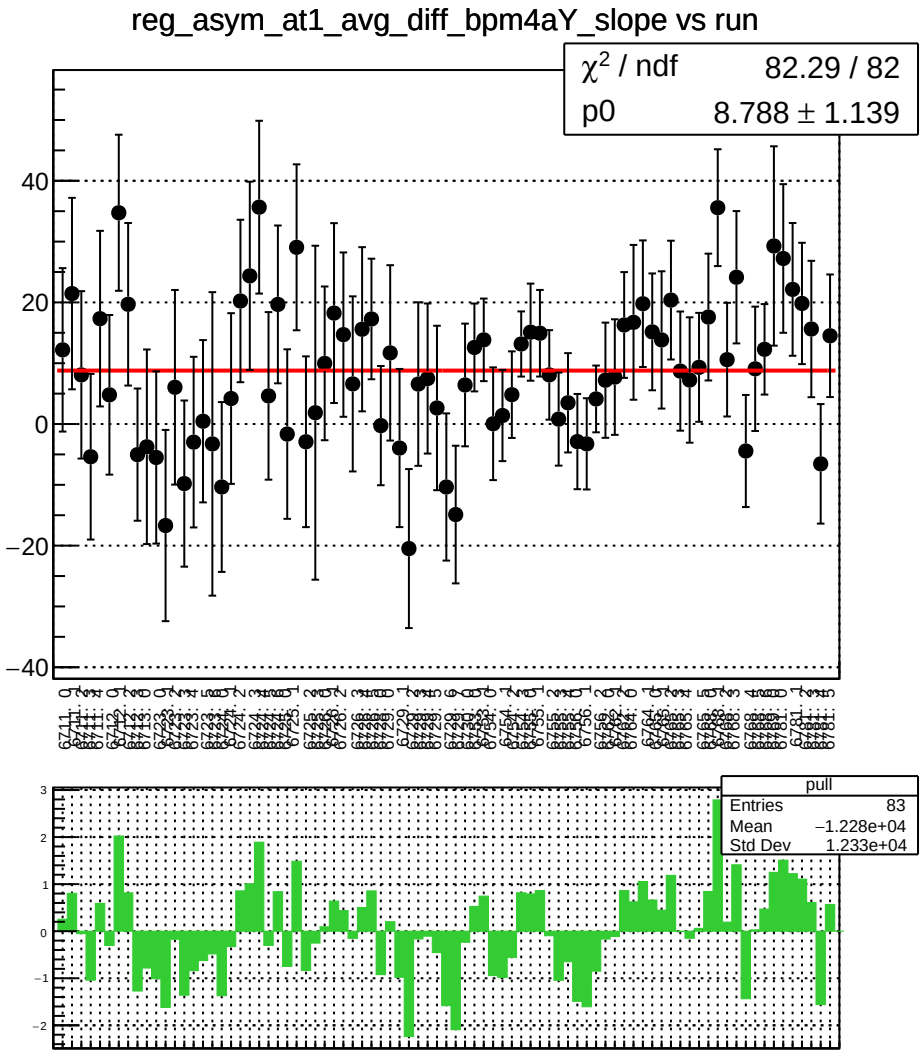

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.92 / 82
p0 −55.09 ± 3.203
pull
Entries 83
Mean −116.5
Std Dev 153.7

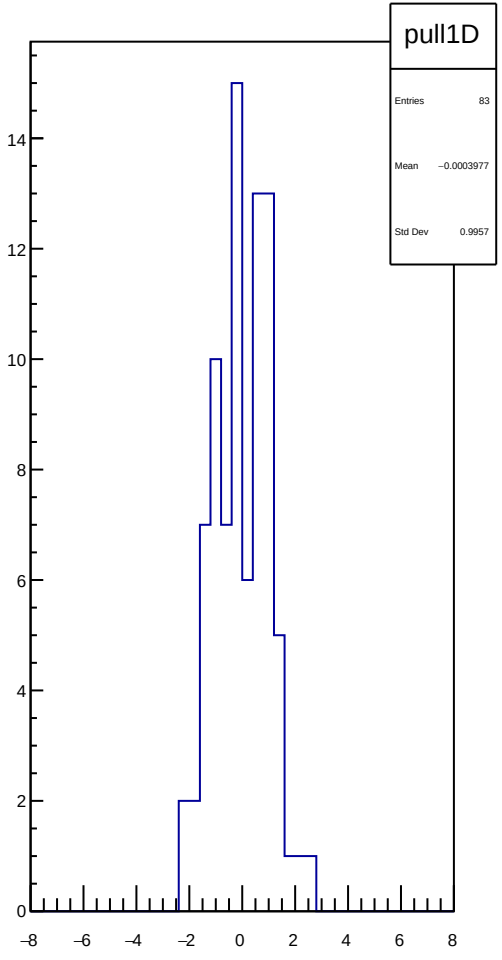

pull1D
Entries 83
Mean −0.02227
Std Dev 0.451

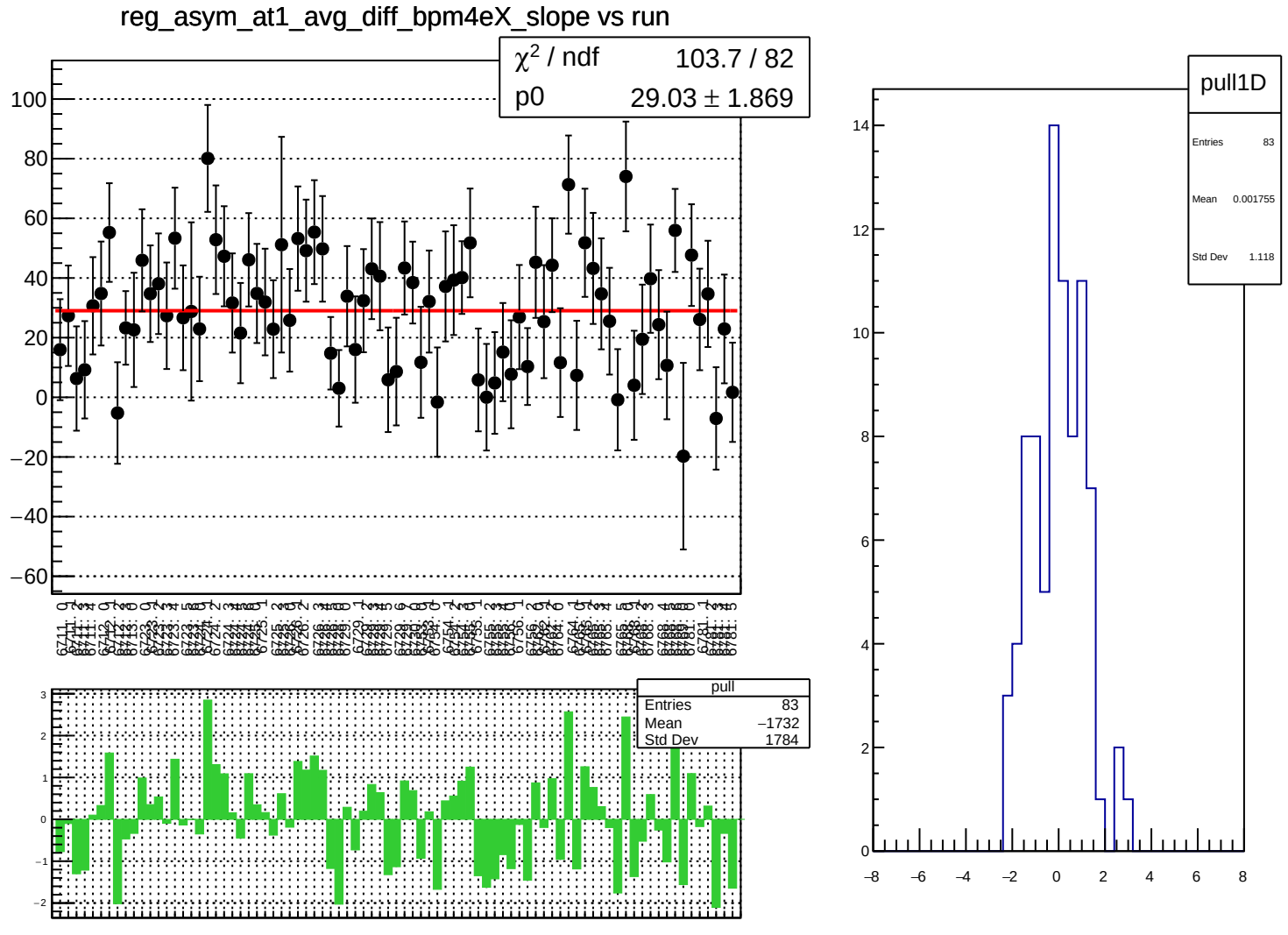

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 61.59 / 82
p0 122.2 ± 0.1894
pull
Entries 83
Mean −217.3
Std Dev 262.1
pull1D
Entries 83
Mean 0.04422
Std Dev 0.8603

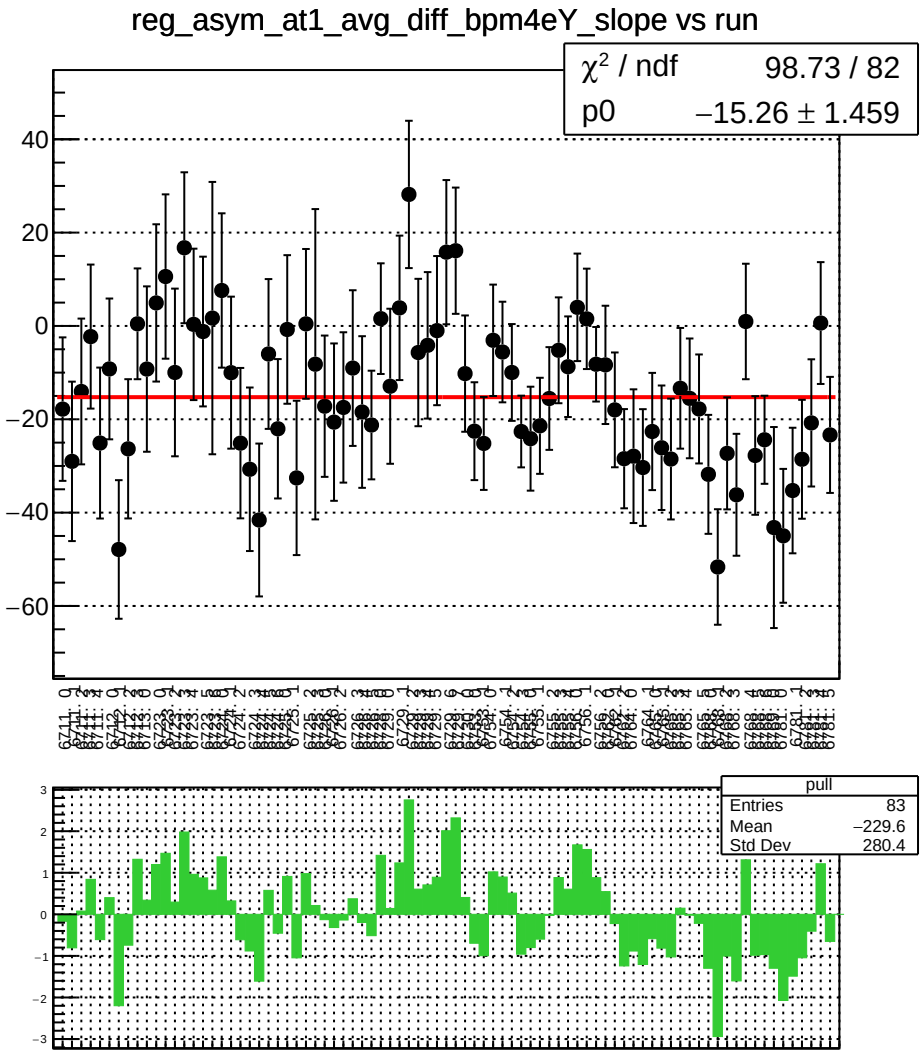

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 101.7 / 82
p0 −39.58 ± 1.954
pull
Entries 83
Mean −267.8
Std Dev 339.4

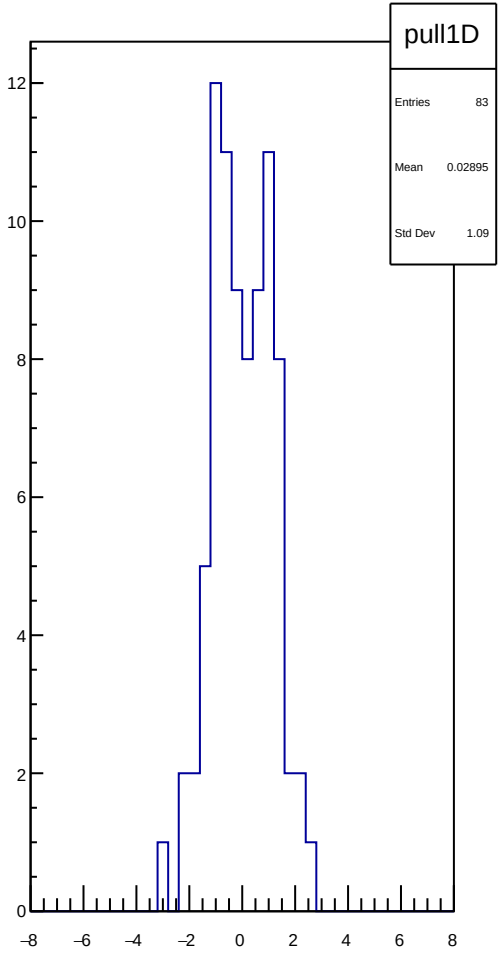

pull1D
Entries 83
Mean −0.00276
Std Dev 1.107

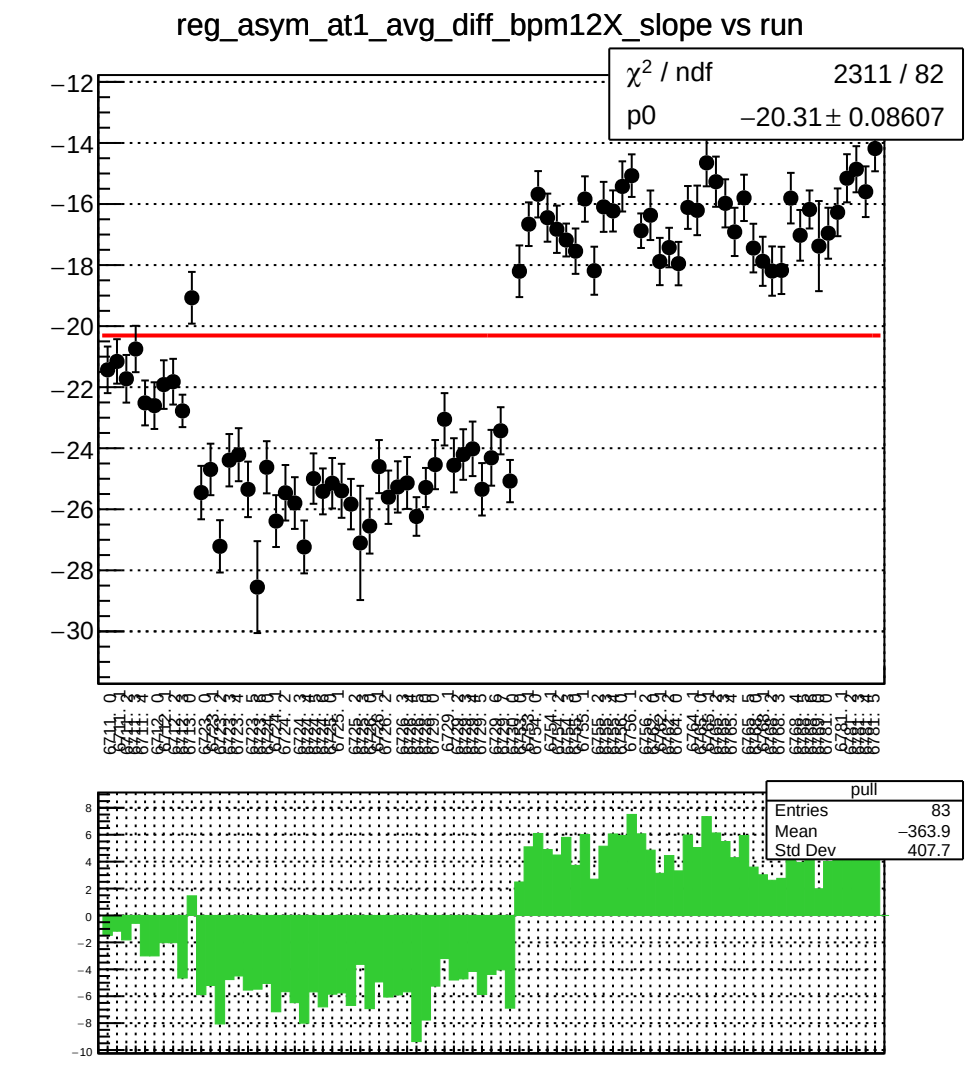

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 82.29 / 82
p0 8.788 ± 1.139
pull
Entries 83
Mean −1.228e+04
Std Dev 1.233e+04

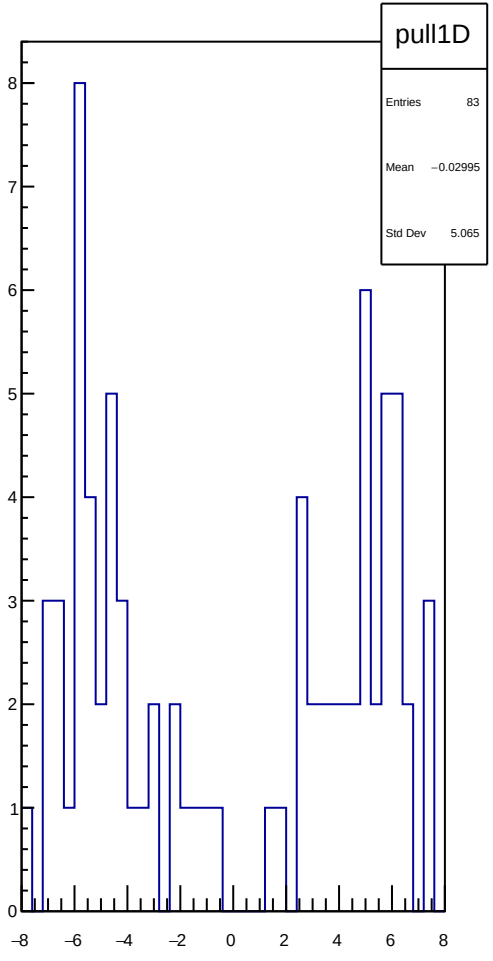

pull1D
Entries 83
Mean −0.0003977
Std Dev 0.9957

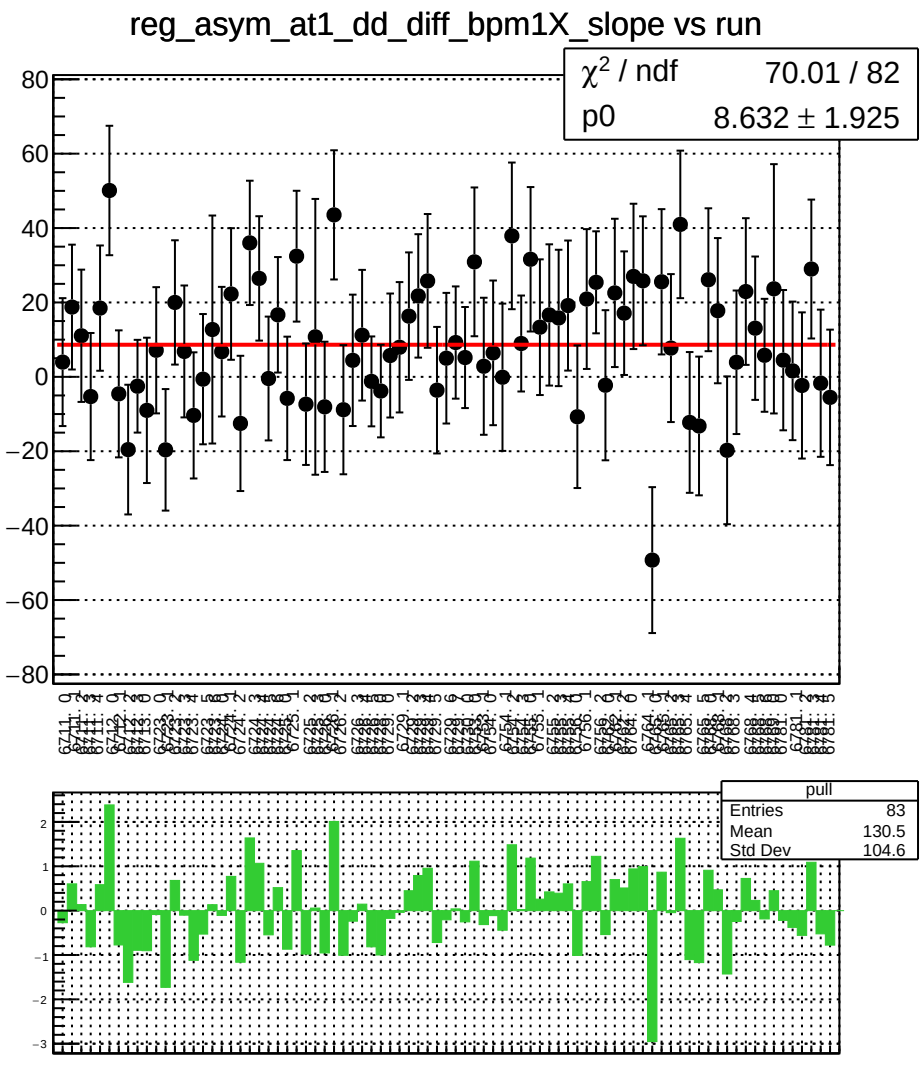

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 103.7 / 82
p0 29.03 ± 1.869
pull
Entries 83
Mean −1732
Std Dev 1784
pull1D
Entries 83
Mean 0.001755
Std Dev 1.118

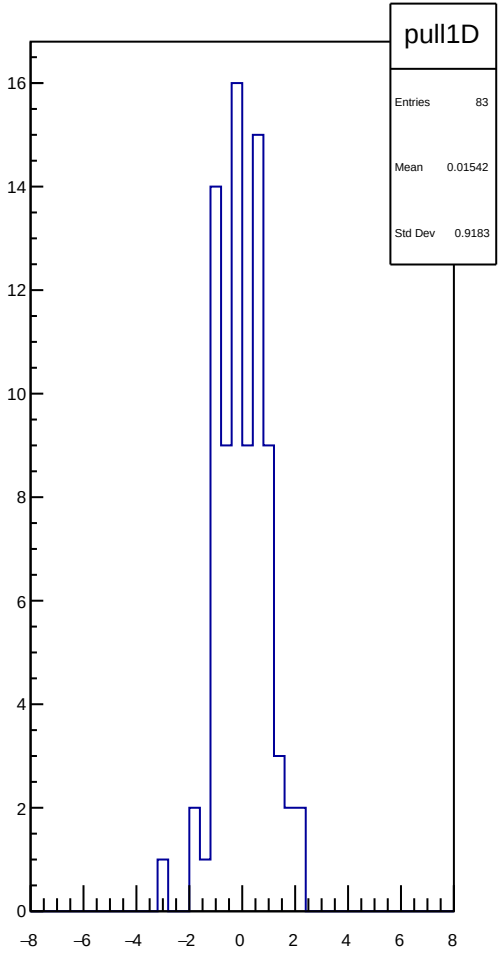

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 98.73 / 82
p0 −15.26 ± 1.459
pull
Entries 83
Mean −229.6
Std Dev 280.4

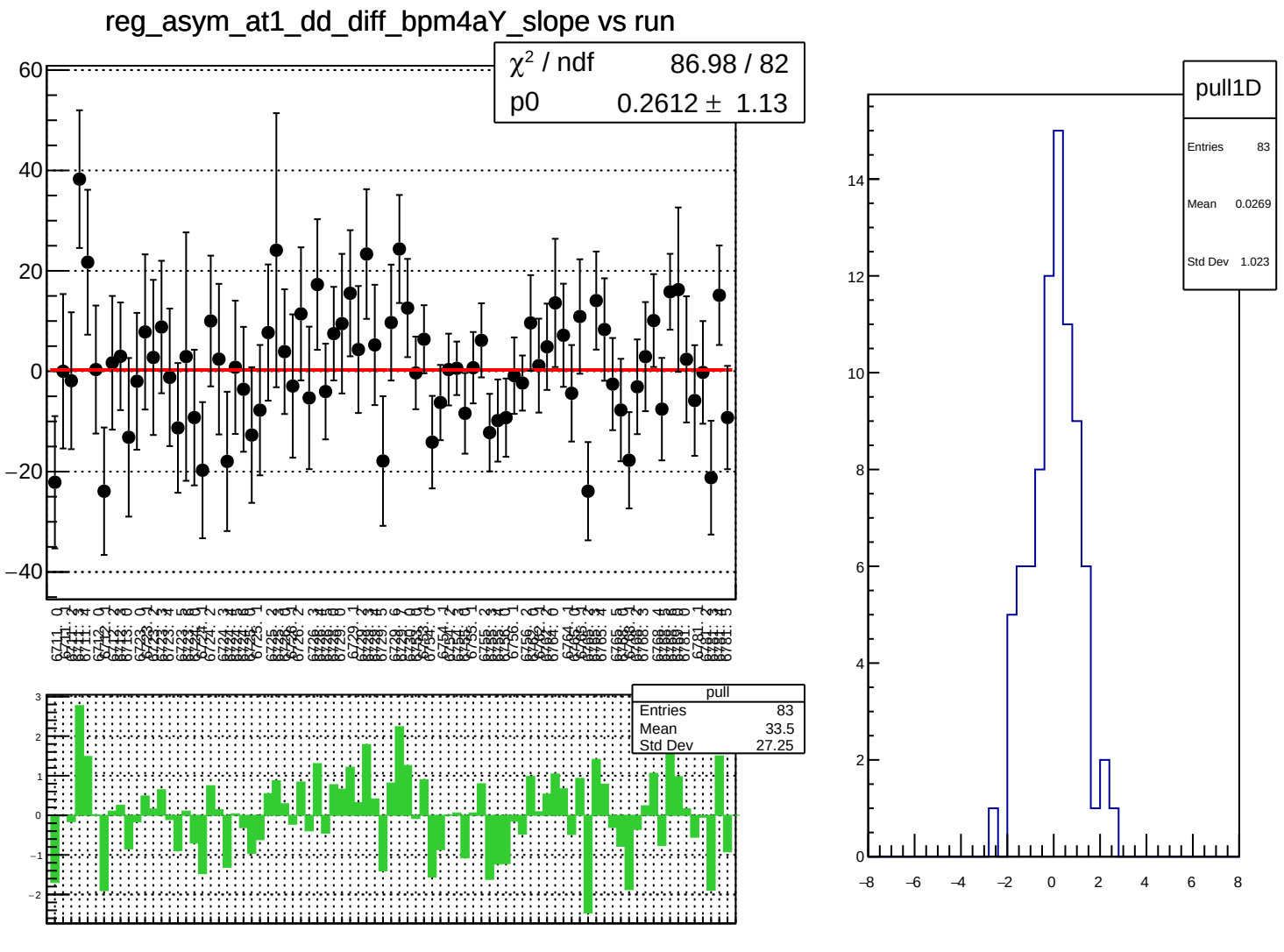

pull1D
Entries 83
Mean 0.02895
Std Dev 1.09

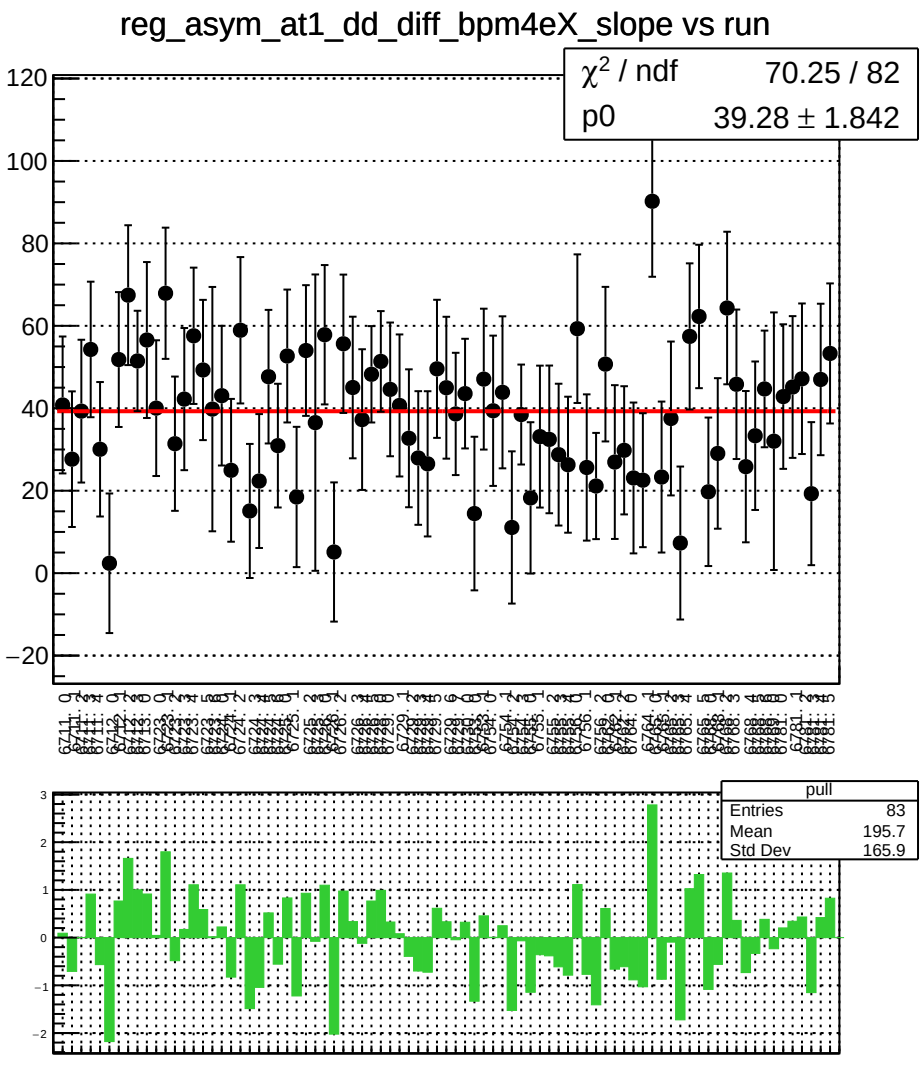

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 2311 / 82
p0 −20.31 ± 0.08607
pull
Entries 83
Mean −363.9
Std Dev 407.7

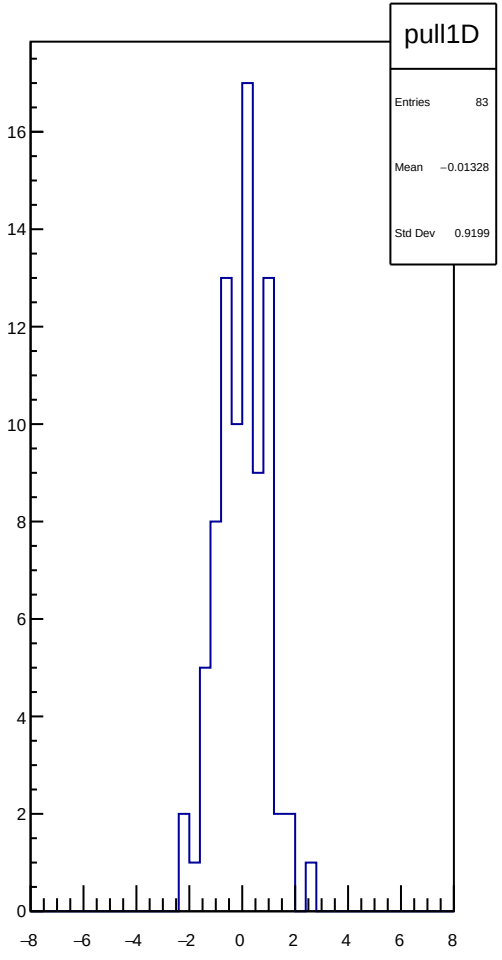

pull1D
Entries 83
Mean −0.02995
Std Dev 5.065

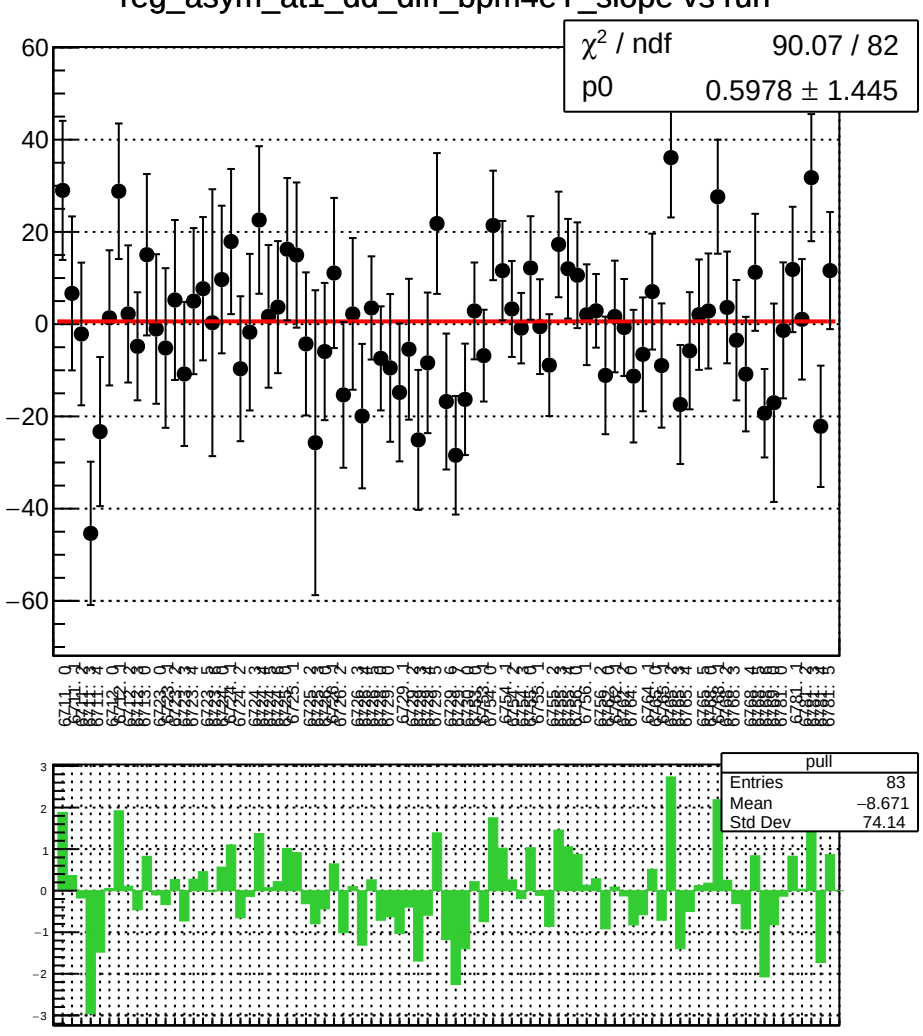

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 70.01 / 82
p0 8.632 ± 1.925
pull
Entries 83
Mean 130.5
Std Dev 104.6

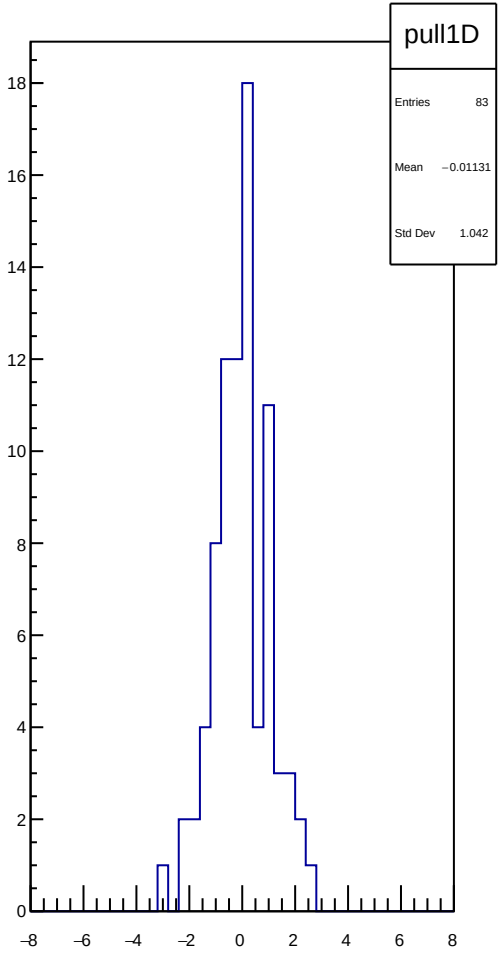

pull1D
Entries 83
Mean 0.01542
Std Dev 0.9183

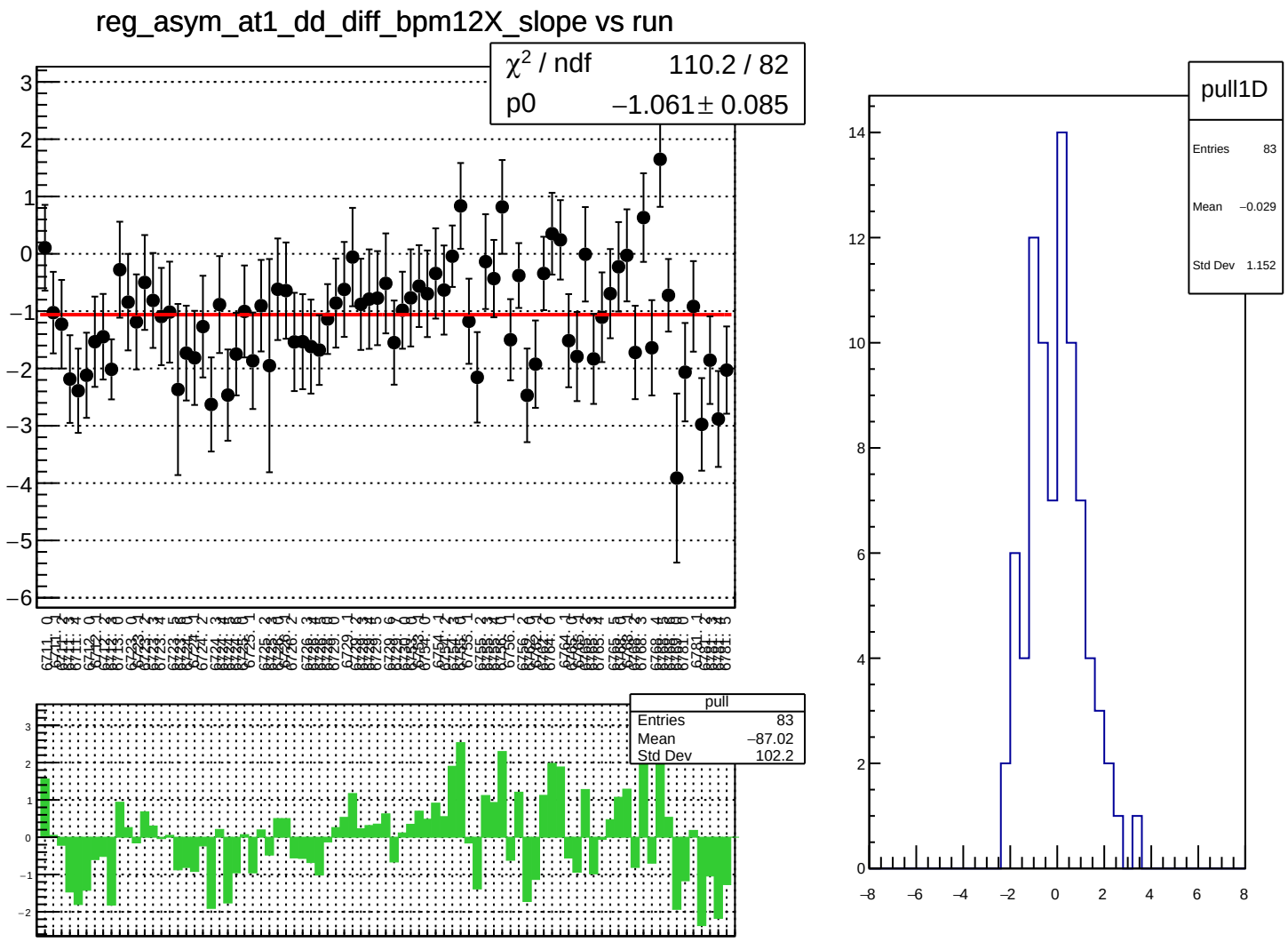

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.98 / 82
p0 0.2612 ± 1.13
pull
Entries 83
Mean 33.5
Std Dev 27.25
pull1D
Entries 83
Mean 0.0269
Std Dev 1.023

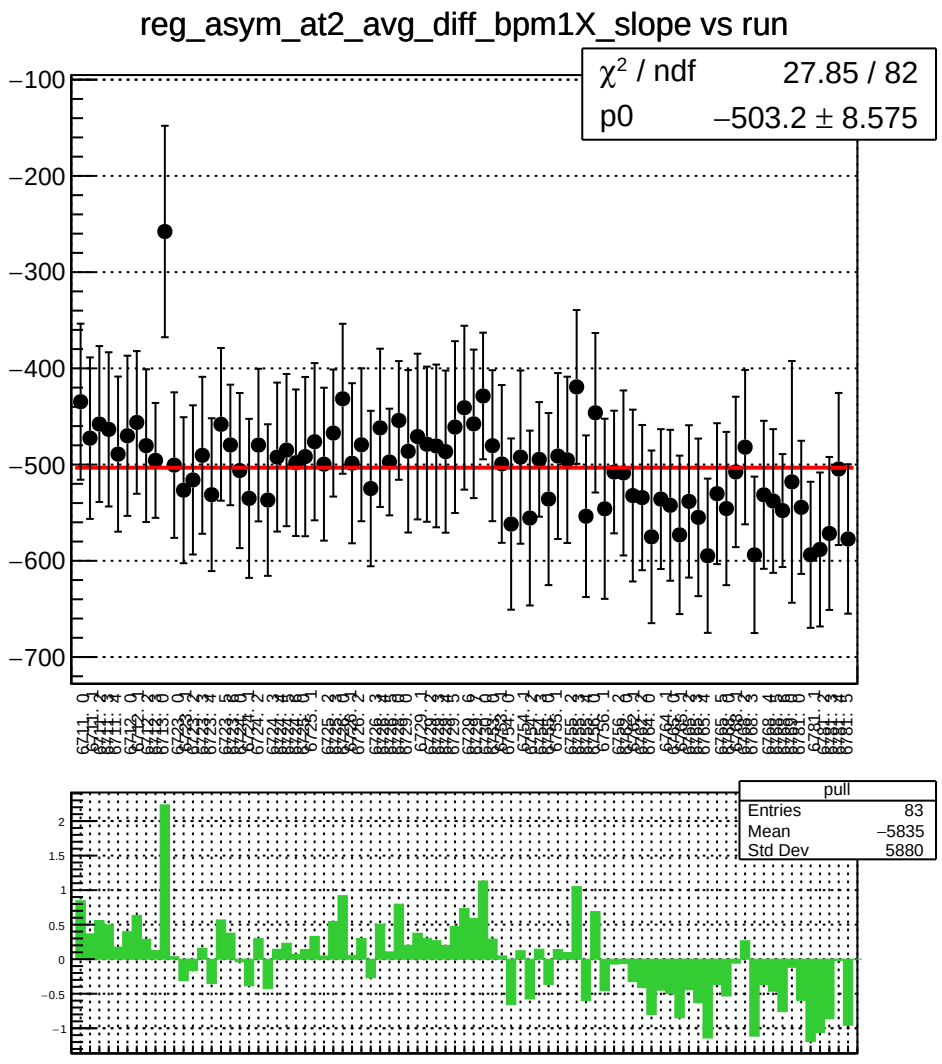

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 70.25 / 82
p0 39.28 ± 1.842
pull
Entries 83
Mean 195.7
Std Dev 165.9

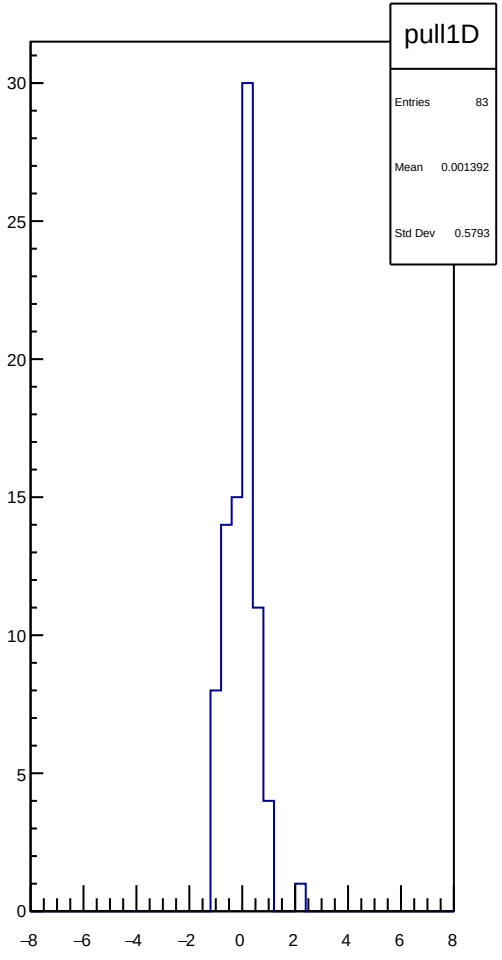

pull1D
Entries 83
Mean −0.01328
Std Dev 0.9199

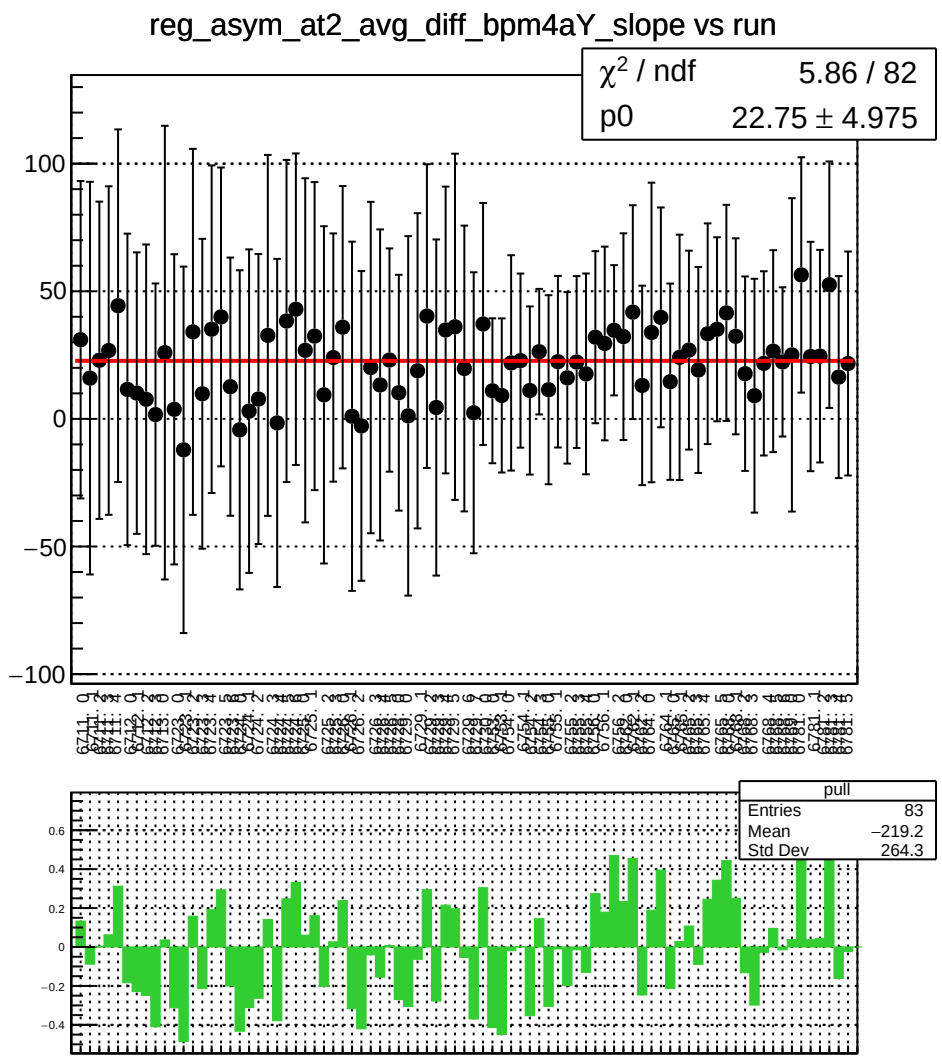

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 90.07 / 82
p0 0.5978 ± 1.445
pull
Entries 83
Mean −8.671
Std Dev 74.14

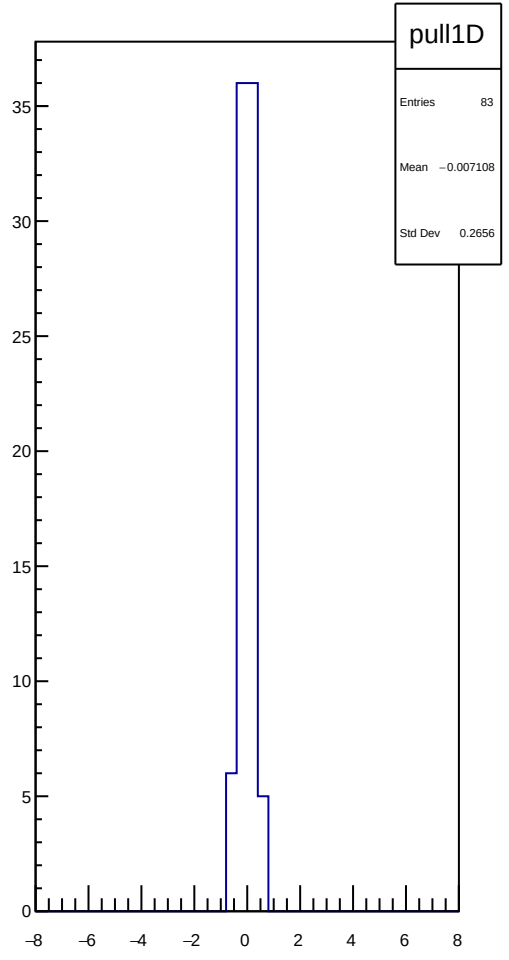

pull1D
Entries 83
Mean −0.01131
Std Dev 1.042

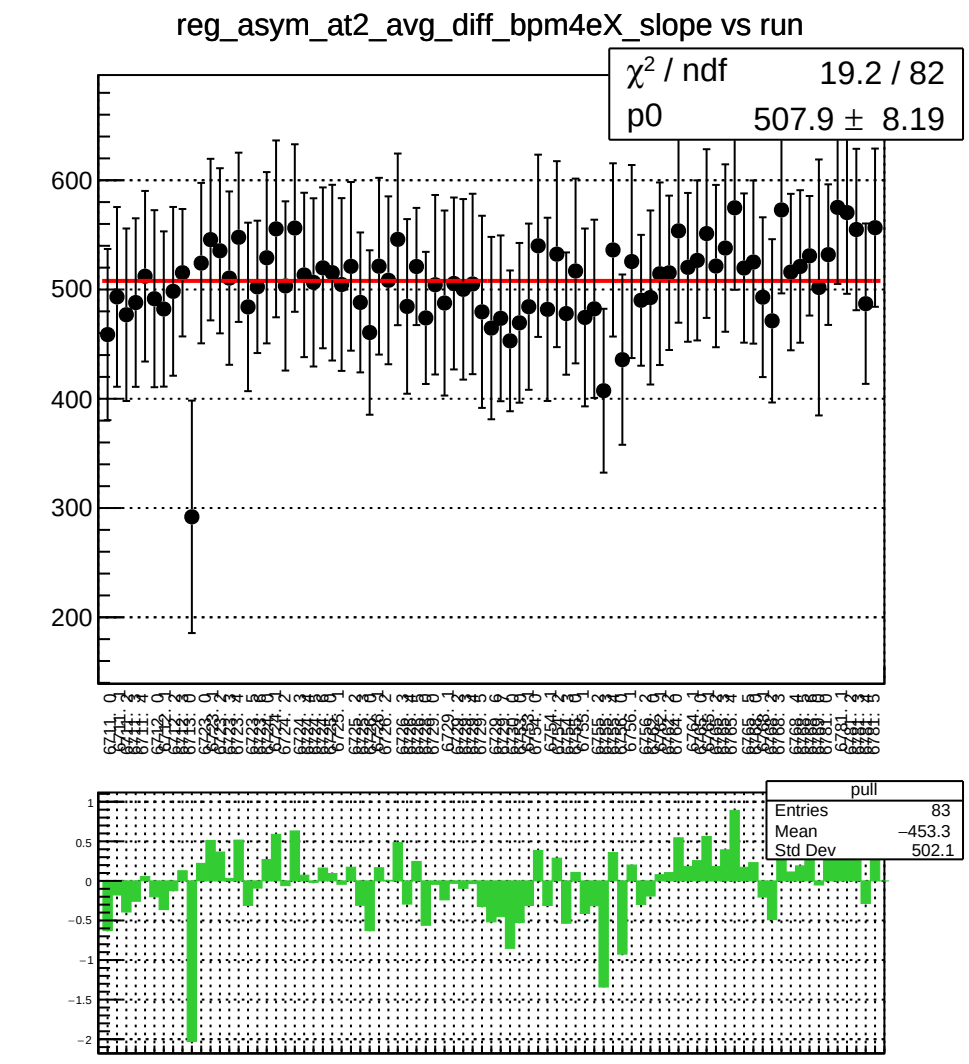

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 110.2 / 82
p0 −1.061± 0.085
pull
Entries 83
Mean −87.02
Std Dev 102.2
pull1D
Entries 83
Mean −0.029
Std Dev 1.152

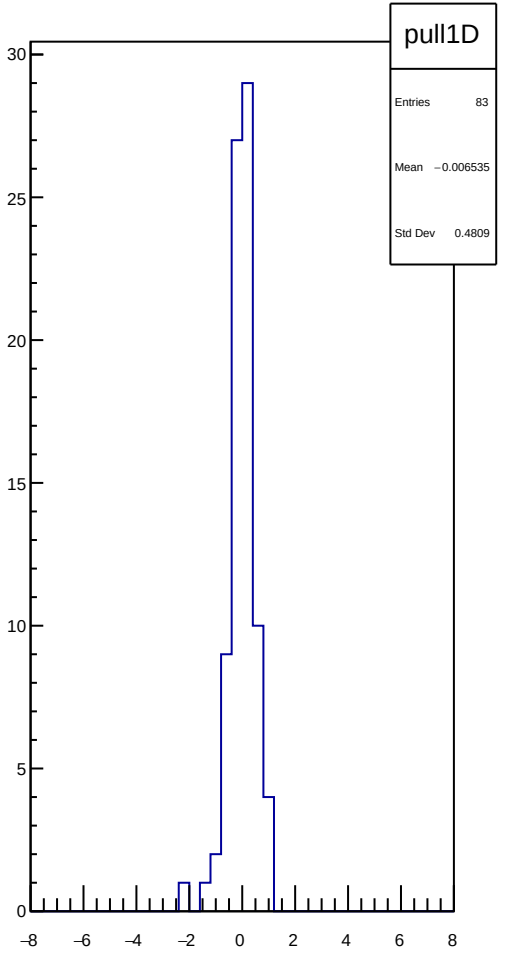

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 27.85 / 82
p0 −503.2 ± 8.575
pull
Entries 83
Mean −5835
Std Dev 5880

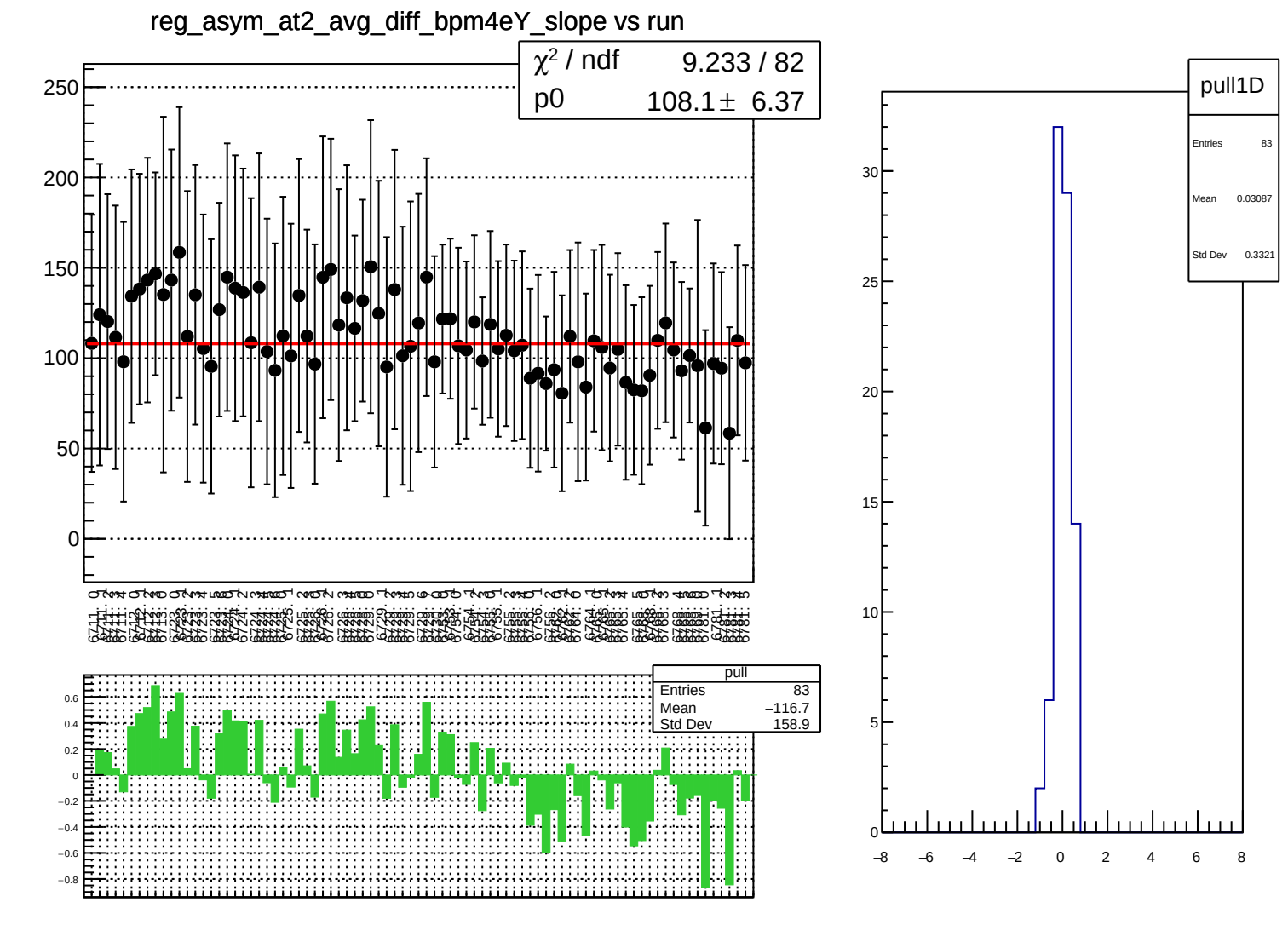

pull1D
Entries 83
Mean 0.001392
Std Dev 0.5793

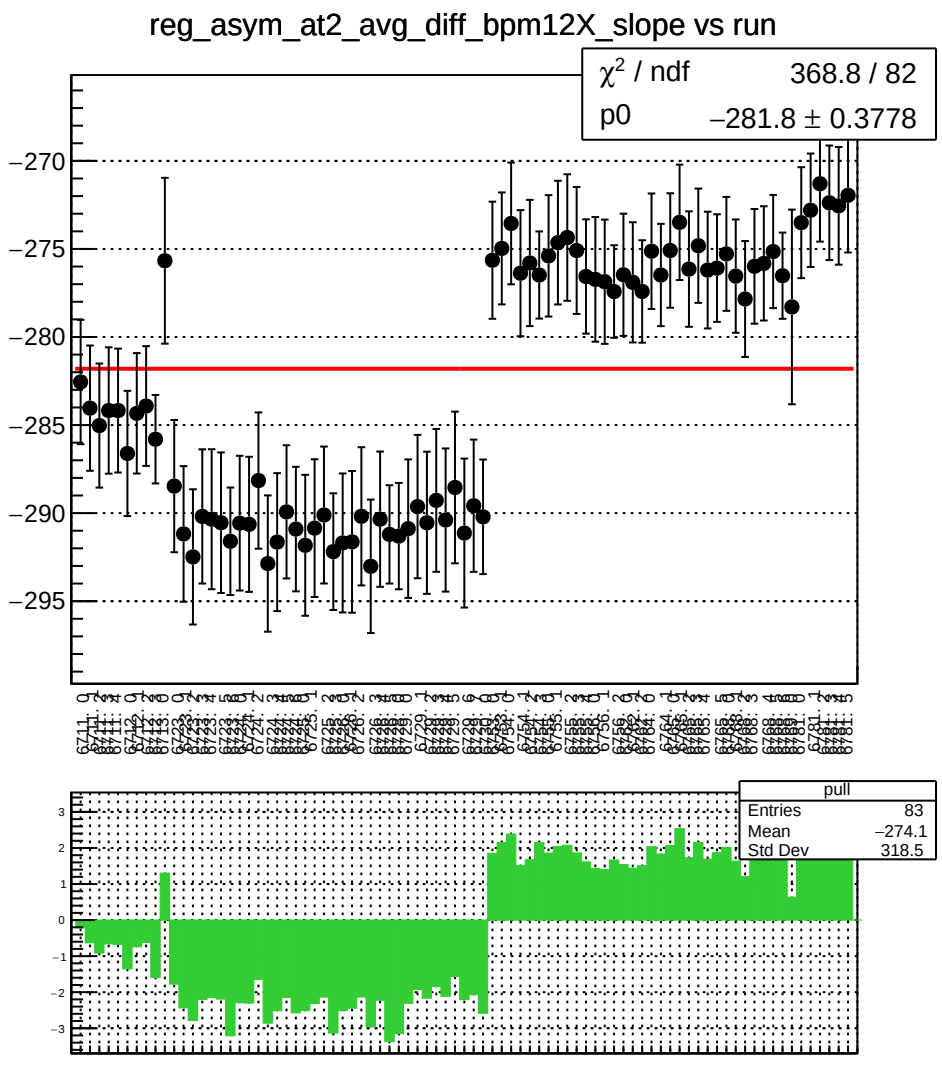

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 5.86 / 82
p0 22.75 ± 4.975
100
50
0
−50
−100
pull
Entries 83
Mean −219.2
Std Dev 264.3
0.6
0.4
0.2
0
−0.2
−0.4

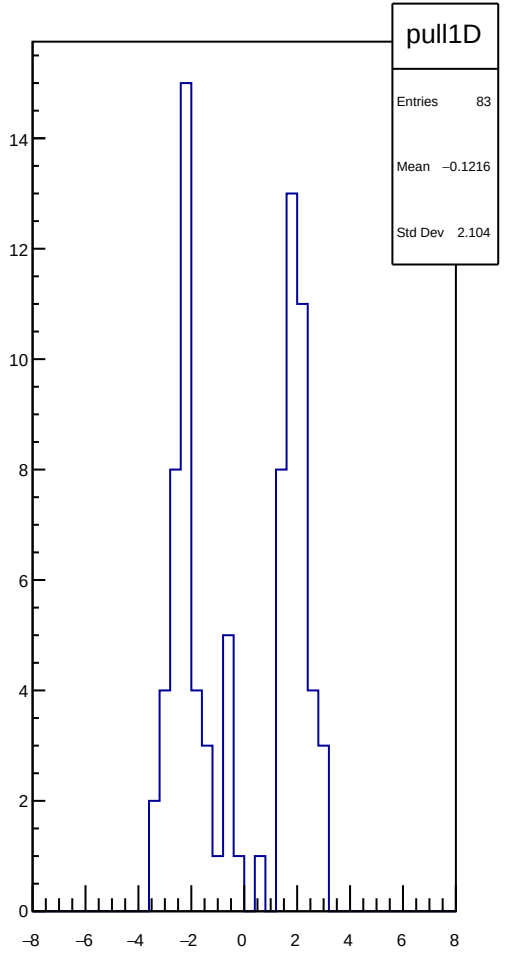

pull1D
Entries 83
Mean −0.007108
Std Dev 0.2656
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

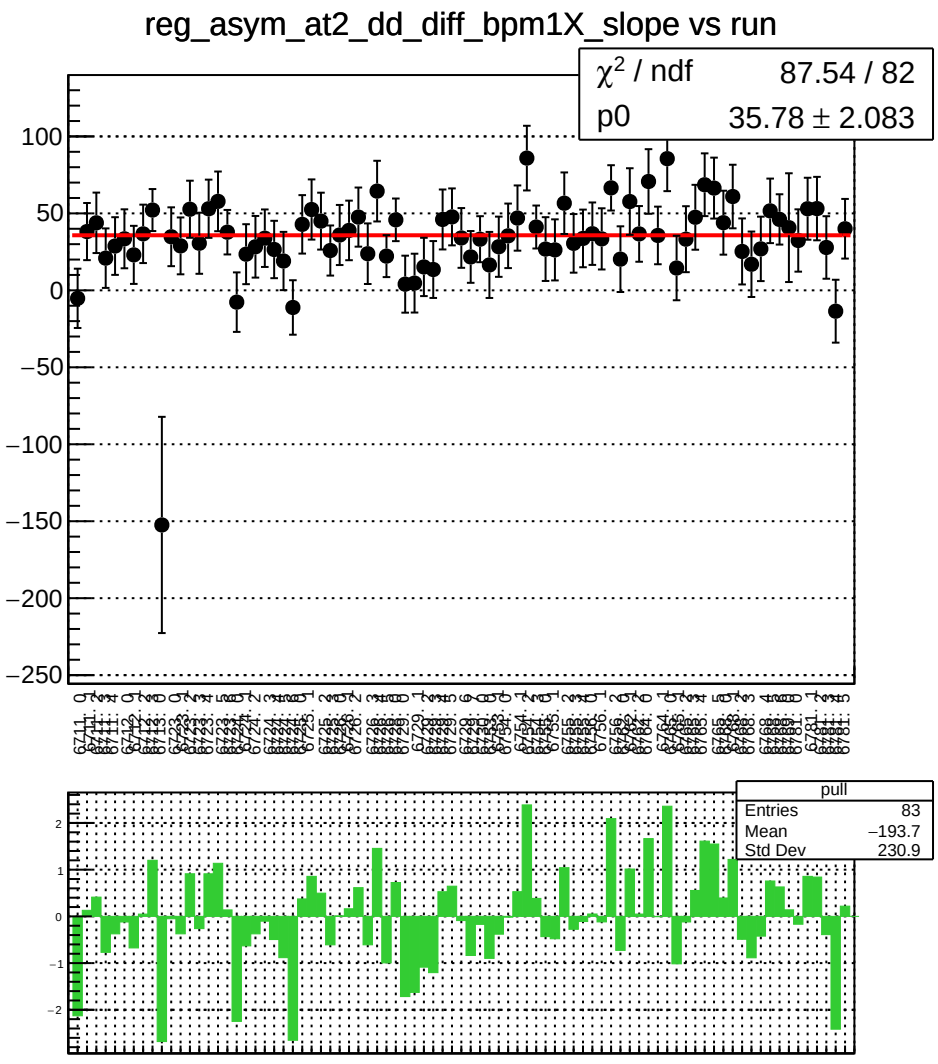

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.2 / 82
p0 507.9 ± 8.19
600
500
400
300
200
pull
Entries 83
Mean −453.3
Std Dev 502.1
1
0.5
0
−0.5
−1
−1.5
−2

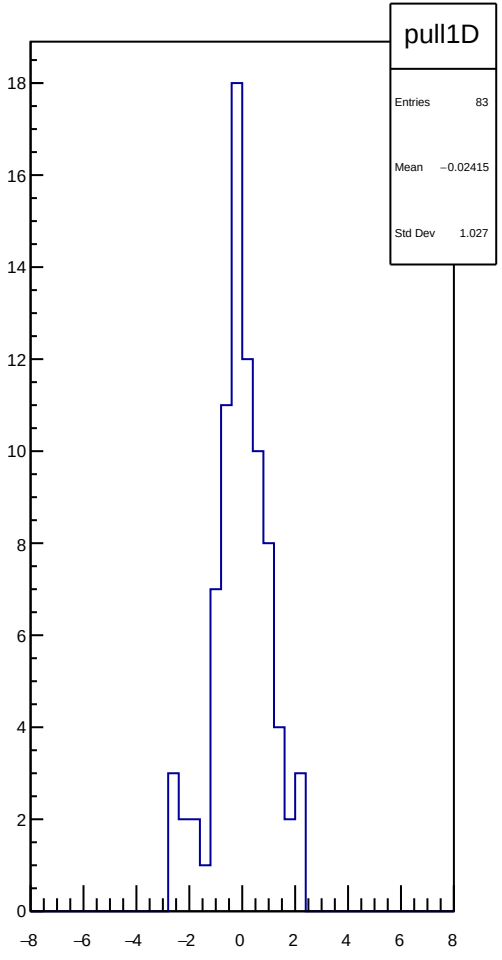

pull1D
Entries 83
Mean −0.006535
Std Dev 0.4809
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

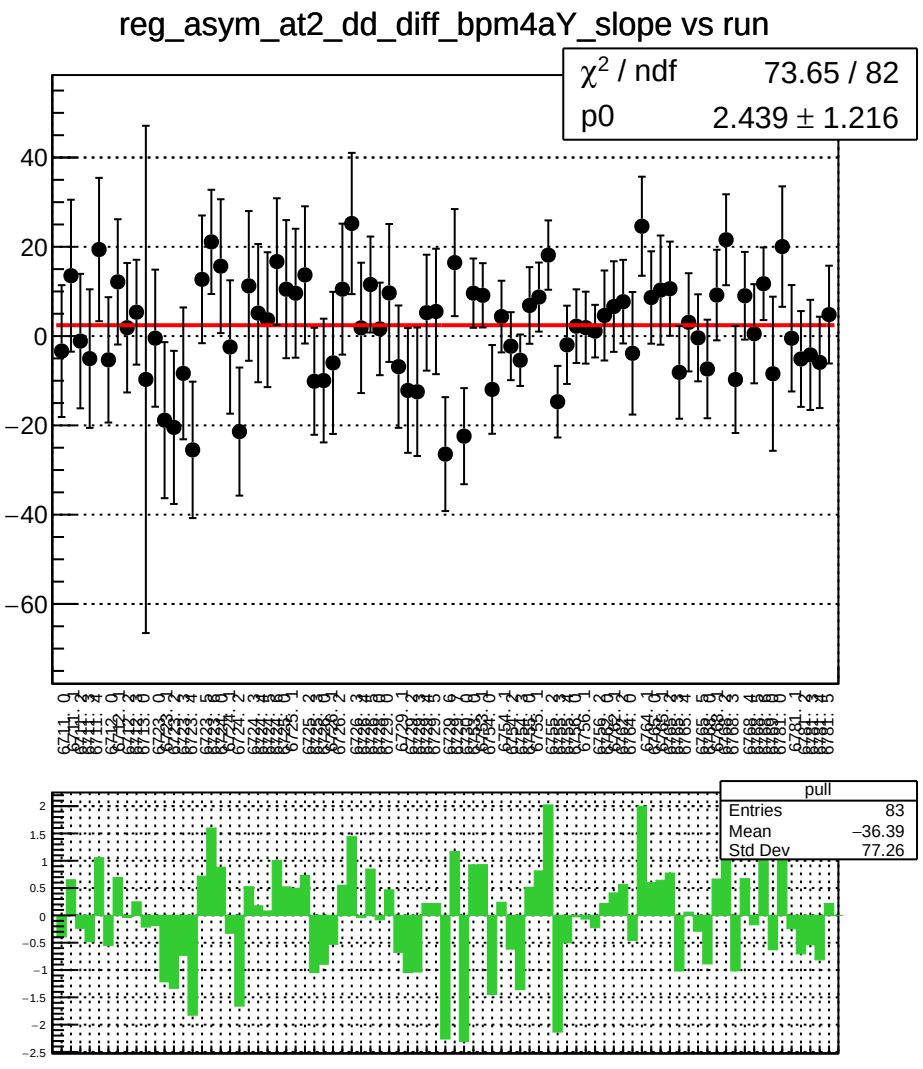

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.233 / 82
p0 108.1 ± 6.37
pull
Entries 83
Mean −116.7
Std Dev 158.9
pull1D
Entries 83
Mean 0.03087
Std Dev 0.3321

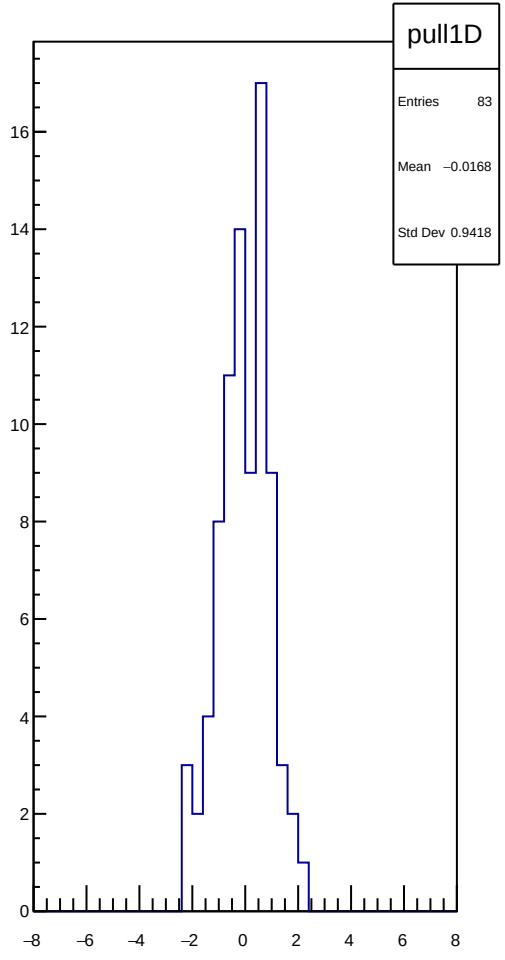

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 368.8 / 82
p0 −281.8 ± 0.3778
−270
−275
−280
−285
−290
−295
pull
Entries 83
Mean −274.1
Std Dev 318.5
3
2
1
0
−1
−2
−3

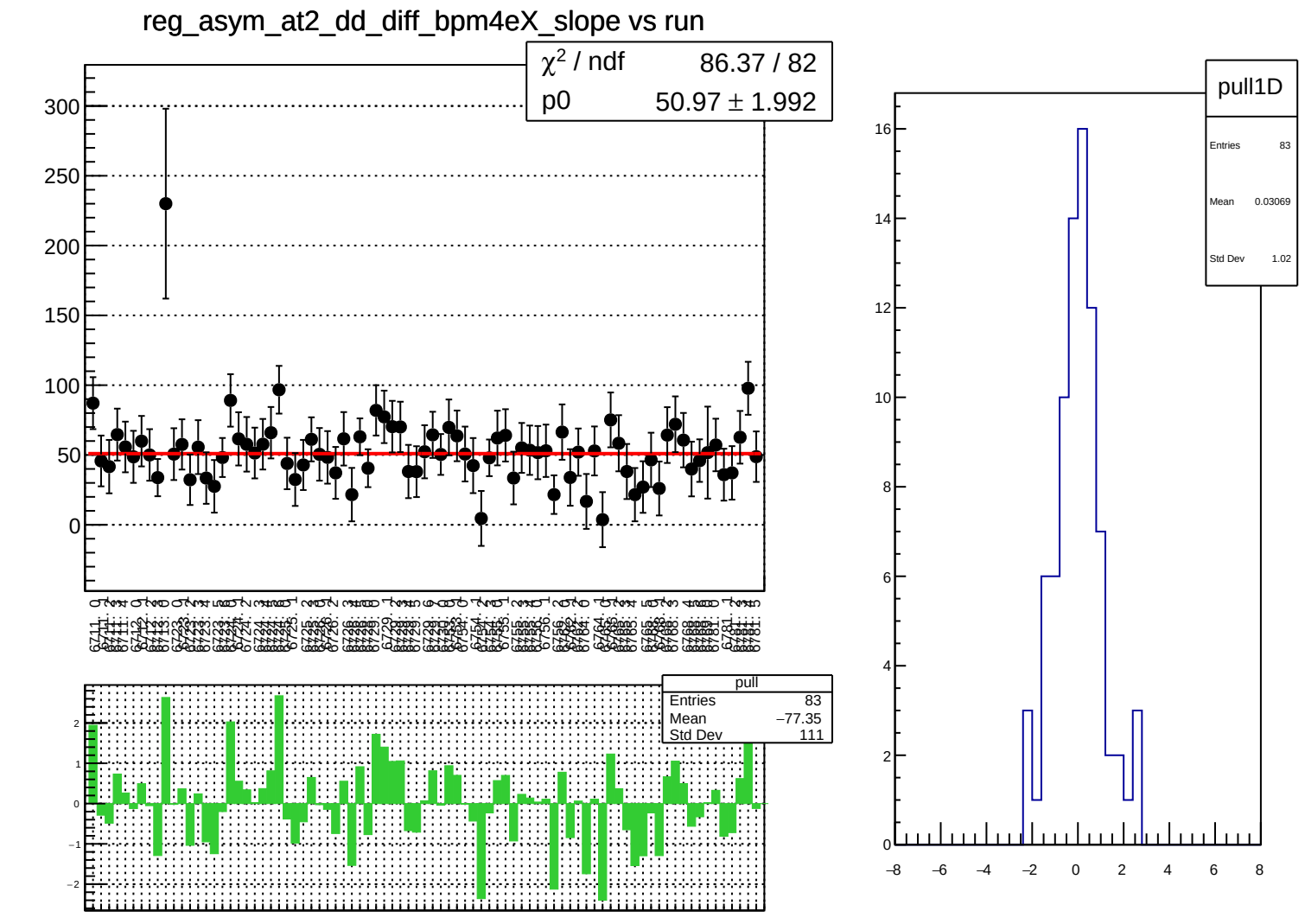

pull1D
Entries 83
Mean −0.1216
Std Dev 2.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

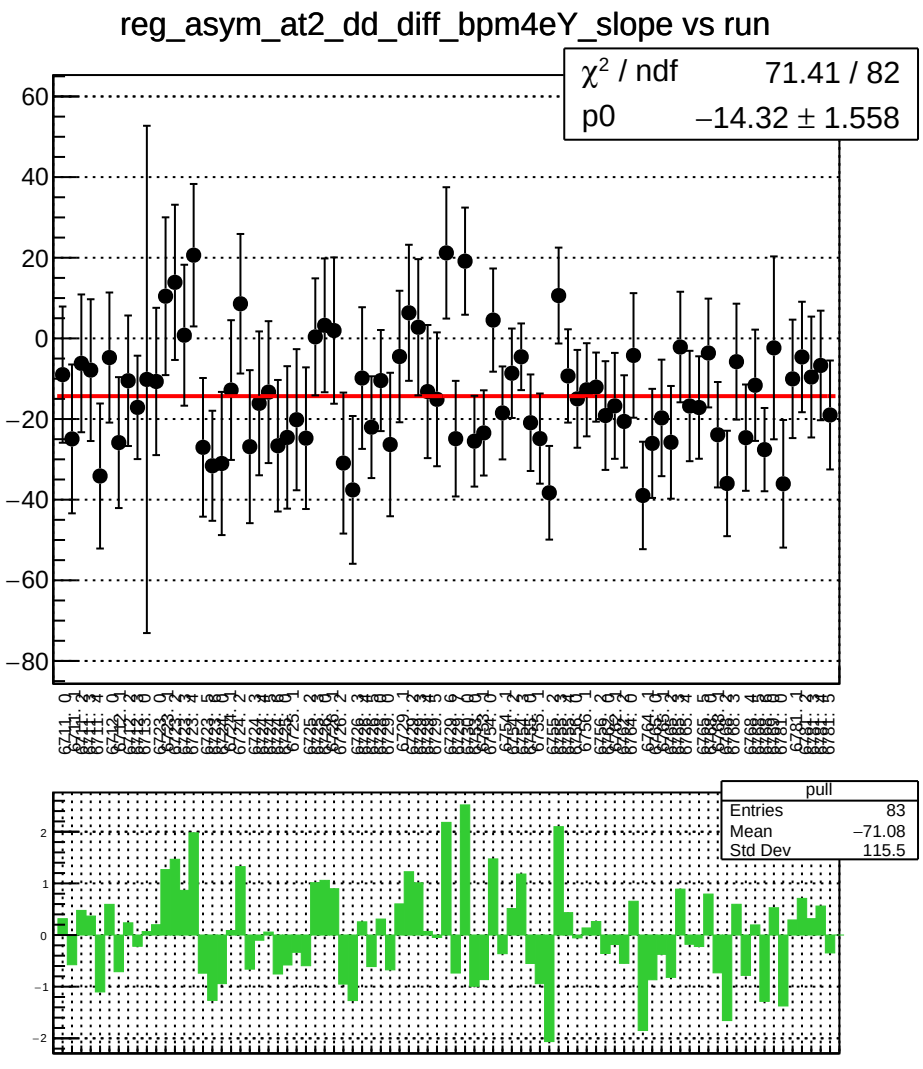

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 87.54 / 82
p0 35.78 ± 2.083
pull
Entries 83
Mean −193.7
Std Dev 230.9

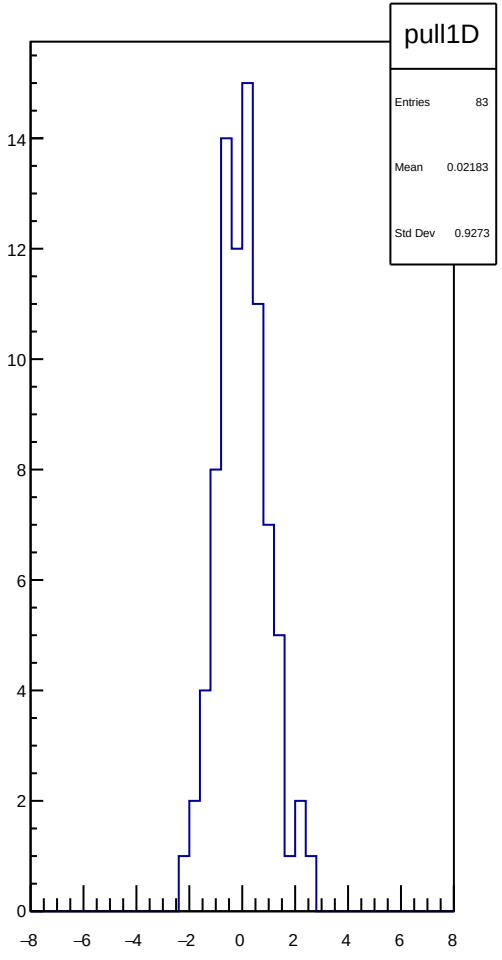

pull1D
Entries 83
Mean −0.02415
Std Dev 1.027

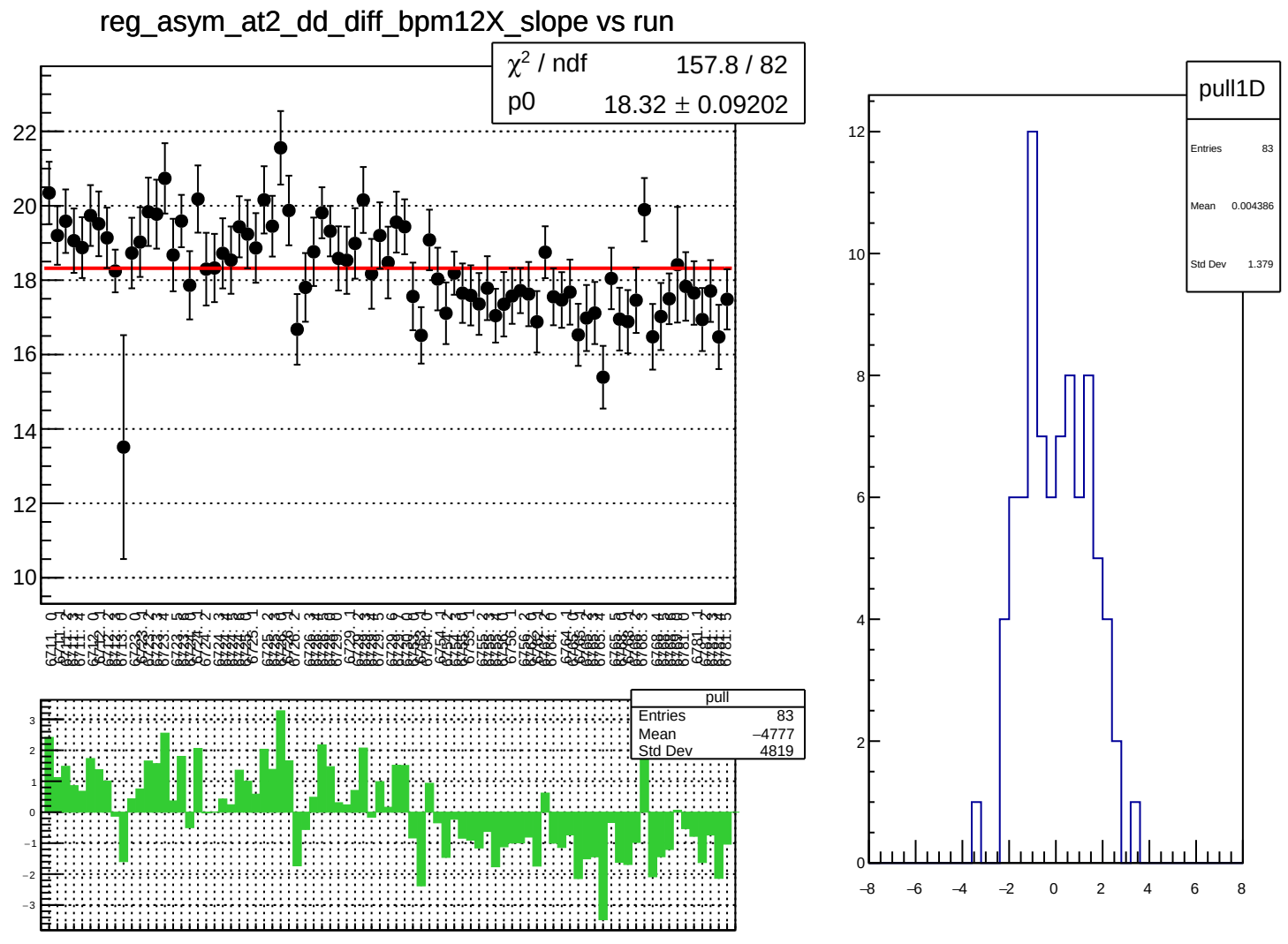

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.65 / 82
p0 2.439 ± 1.216
pull
Entries 83
Mean −36.39
Std Dev 77.26

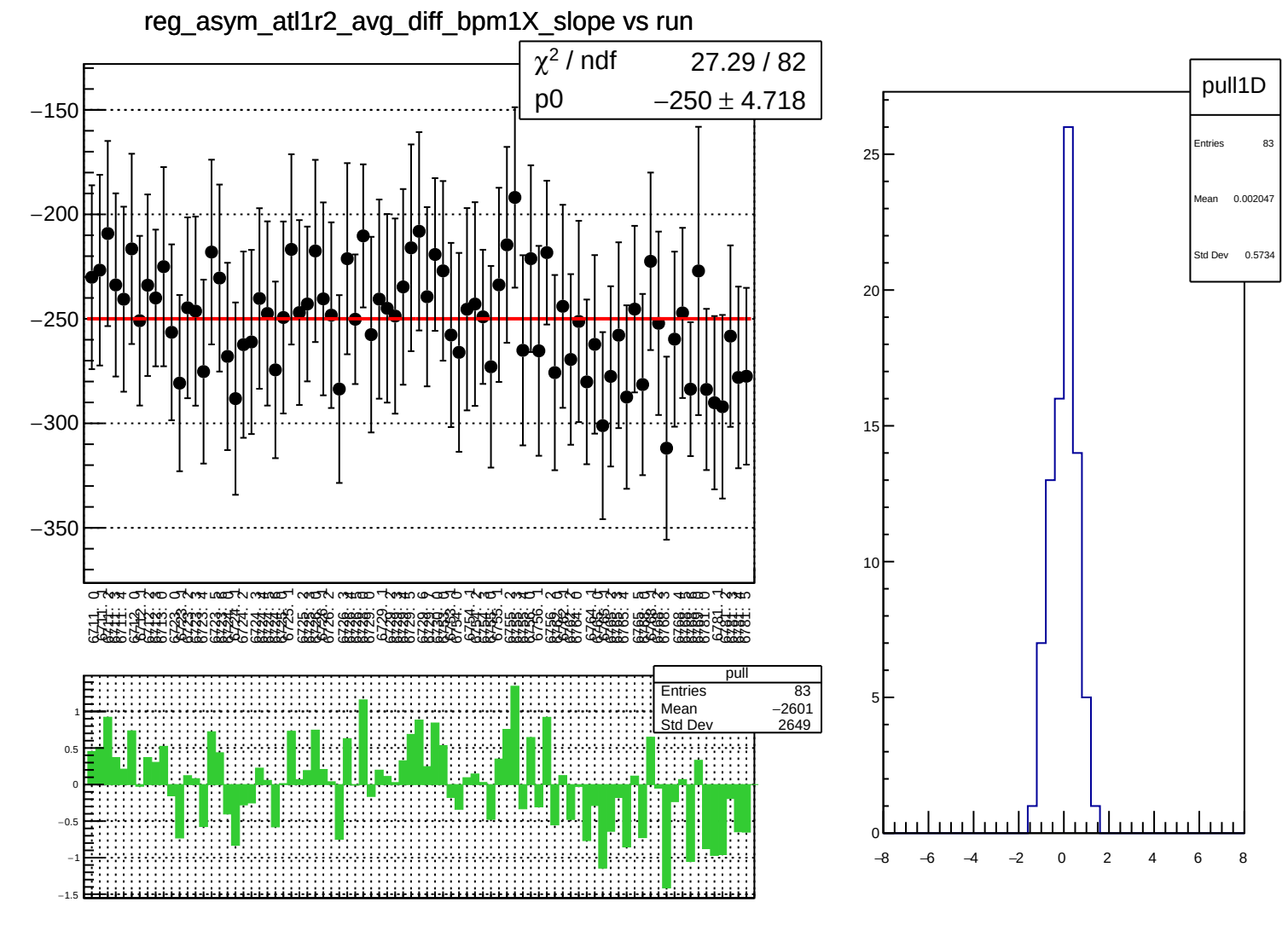

pull1D
Entries 83
Mean −0.0168
Std Dev 0.9418

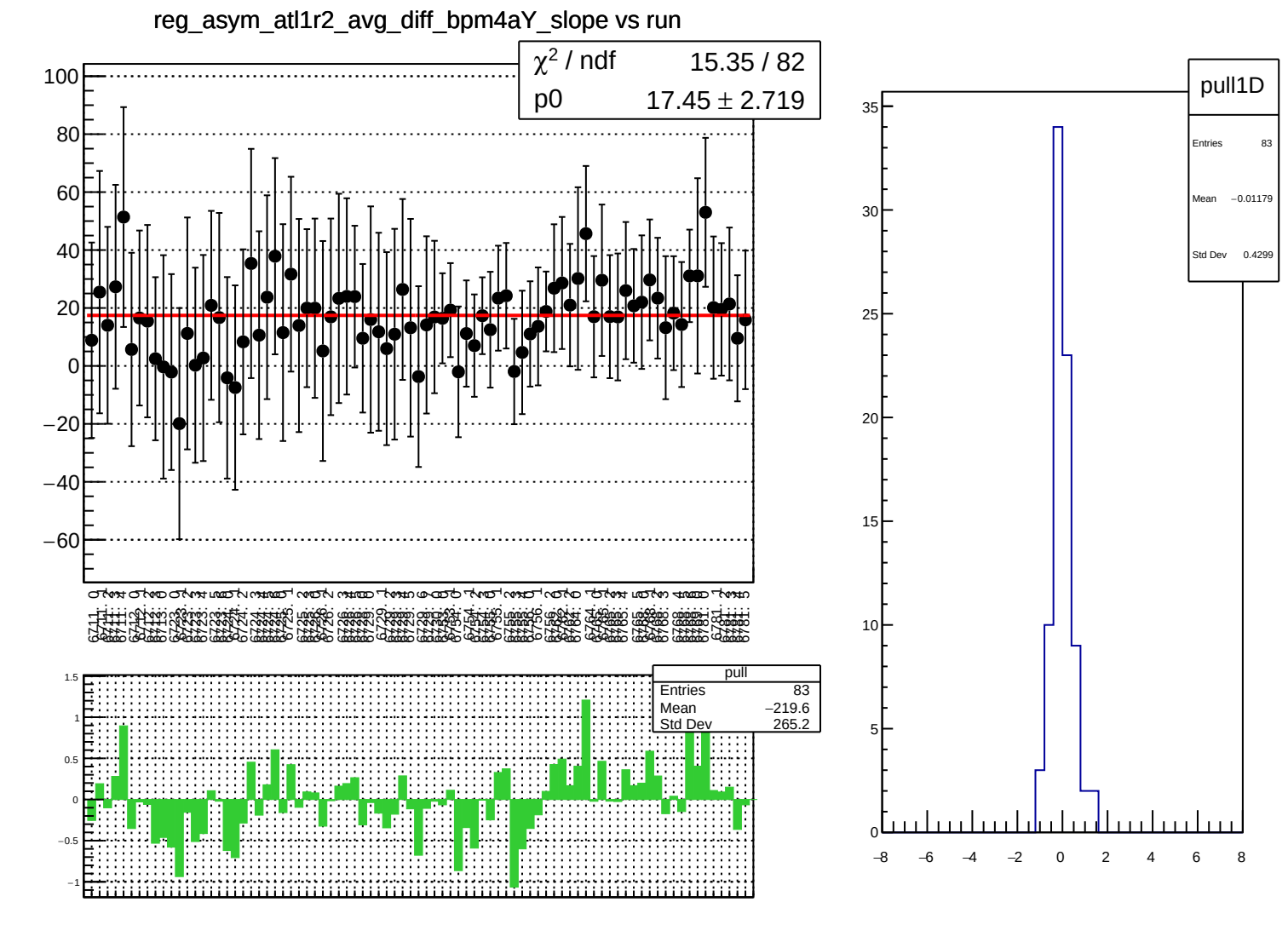

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 86.37 / 82
p0 50.97 ± 1.992
pull
Entries 83
Mean −77.35
Std Dev 111
pull1D
Entries 83
Mean 0.03069
Std Dev 1.02

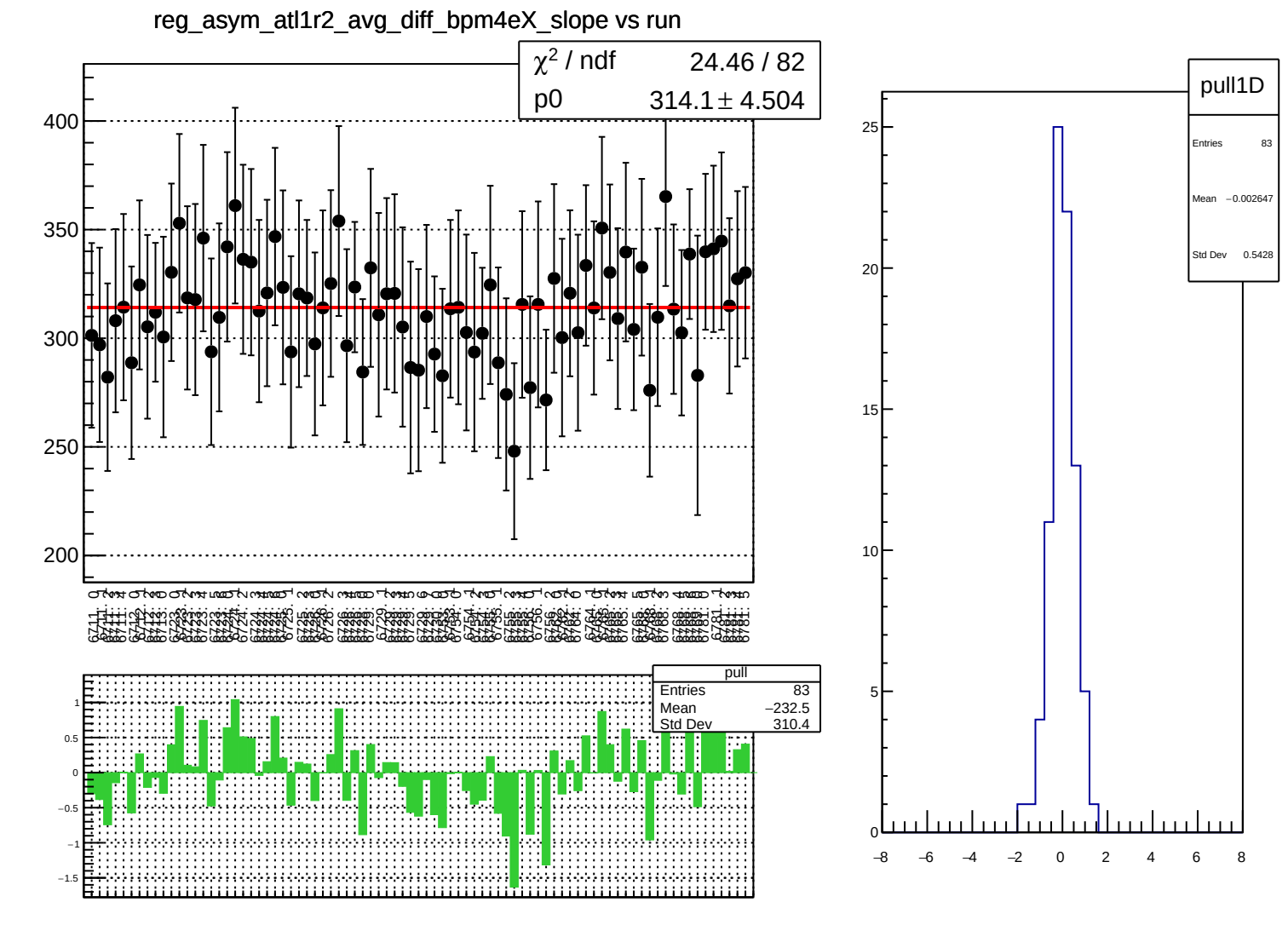

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.41 / 82
p0 −14.32 ± 1.558
pull
Entries 83
Mean −71.08
Std Dev 115.5

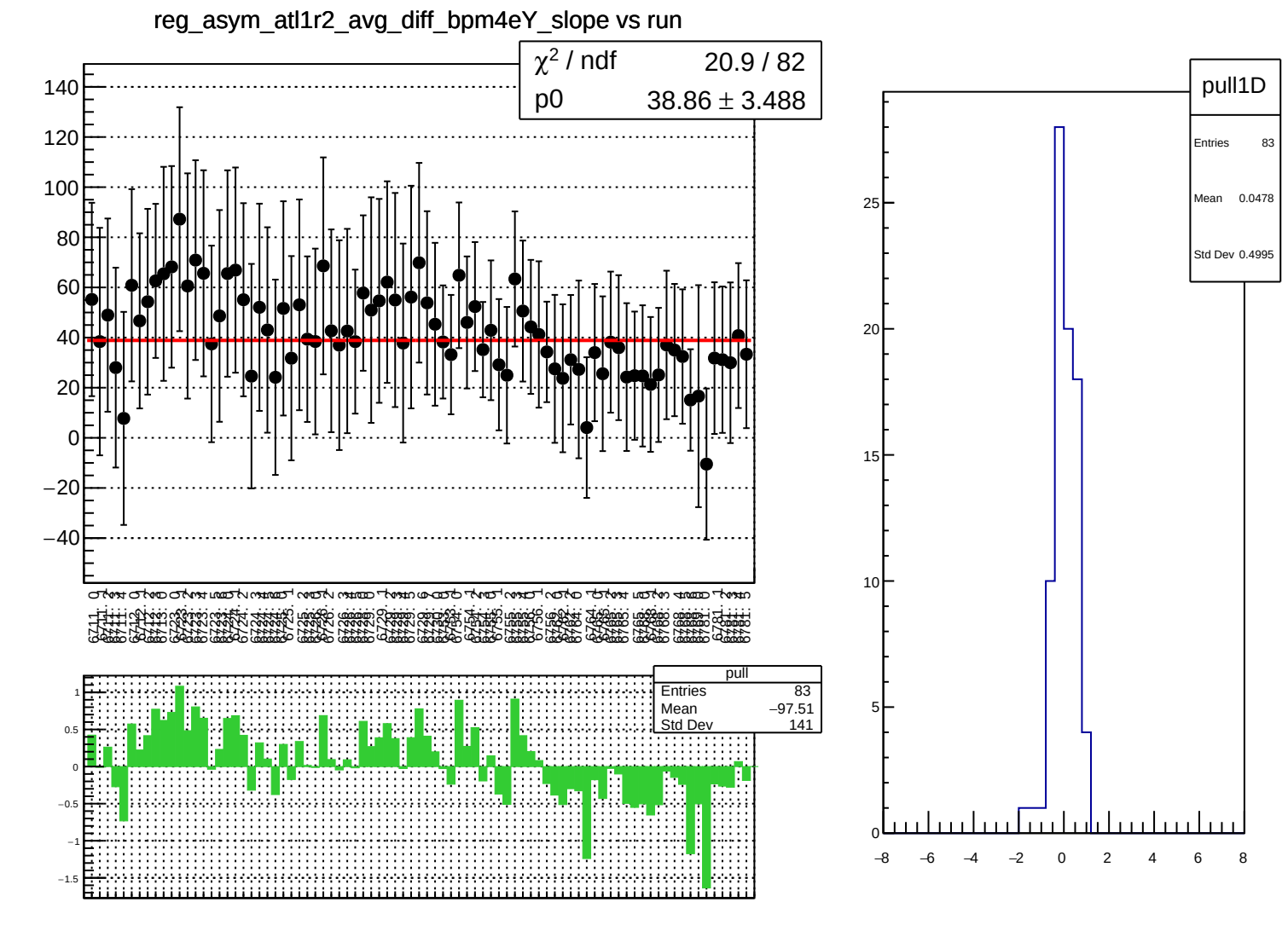

pull1D
Entries 83
Mean 0.02183
Std Dev 0.9273

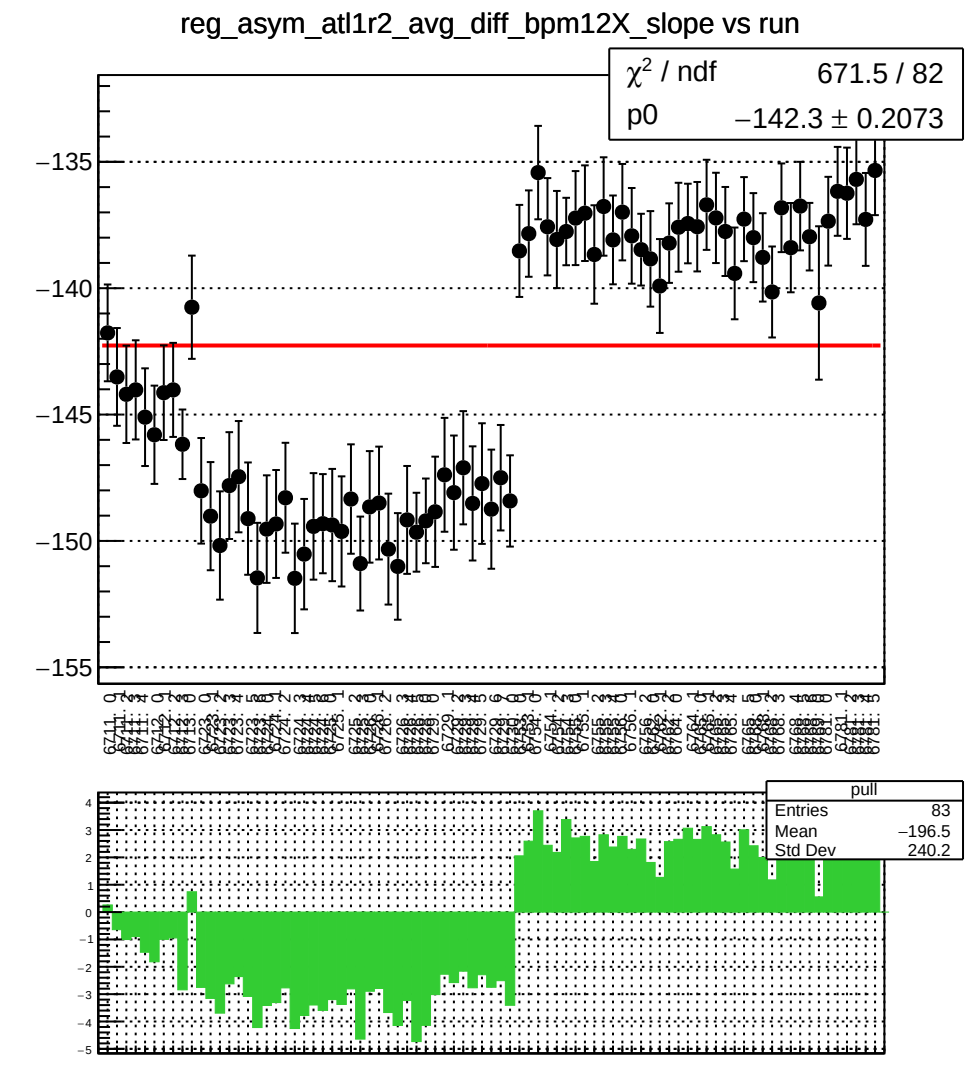

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 157.8 / 82
p0 18.32 ± 0.09202
pull
Entries 83
Mean −4777
Std Dev 4819
pull1D
Entries 83
Mean 0.004386
Std Dev 1.379

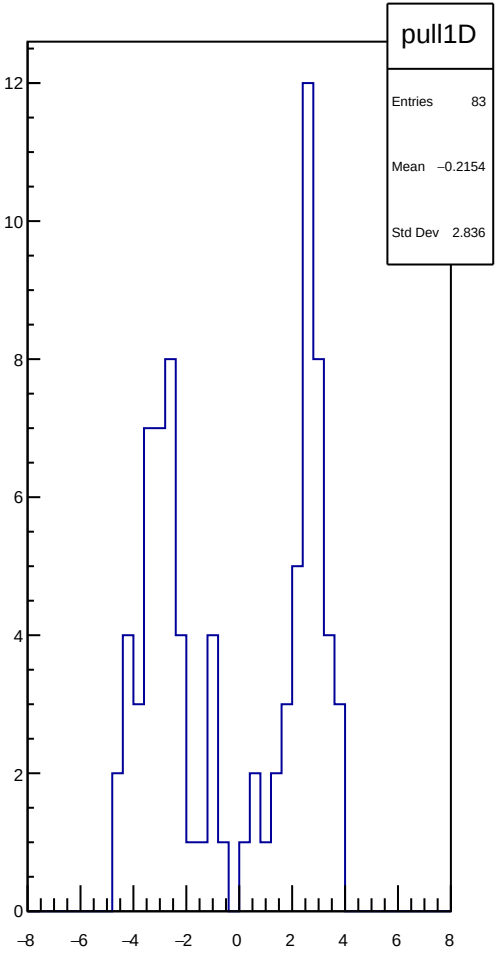

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 27.29 / 82
p0 −250 ± 4.718
−150
−200
−250
−300
−350
pull
Entries 83
Mean −2601
Std Dev 2649
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean 0.002047
Std Dev 0.5734
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

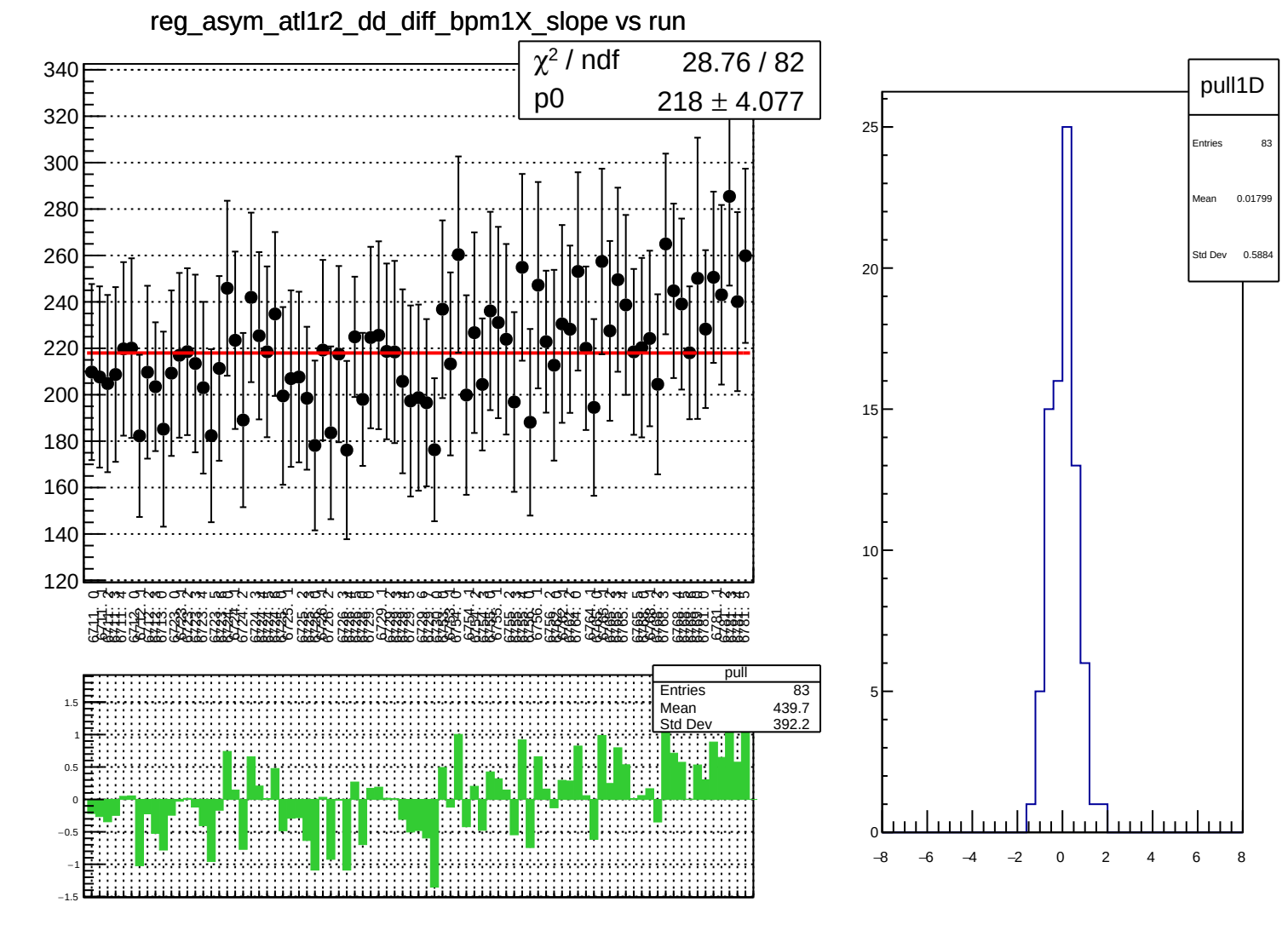

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.35 / 82
p0 17.45 ± 2.719
pull
Entries 83
Mean −219.6
Std Dev 265.2
pull1D
Entries 83
Mean −0.01179
Std Dev 0.4299

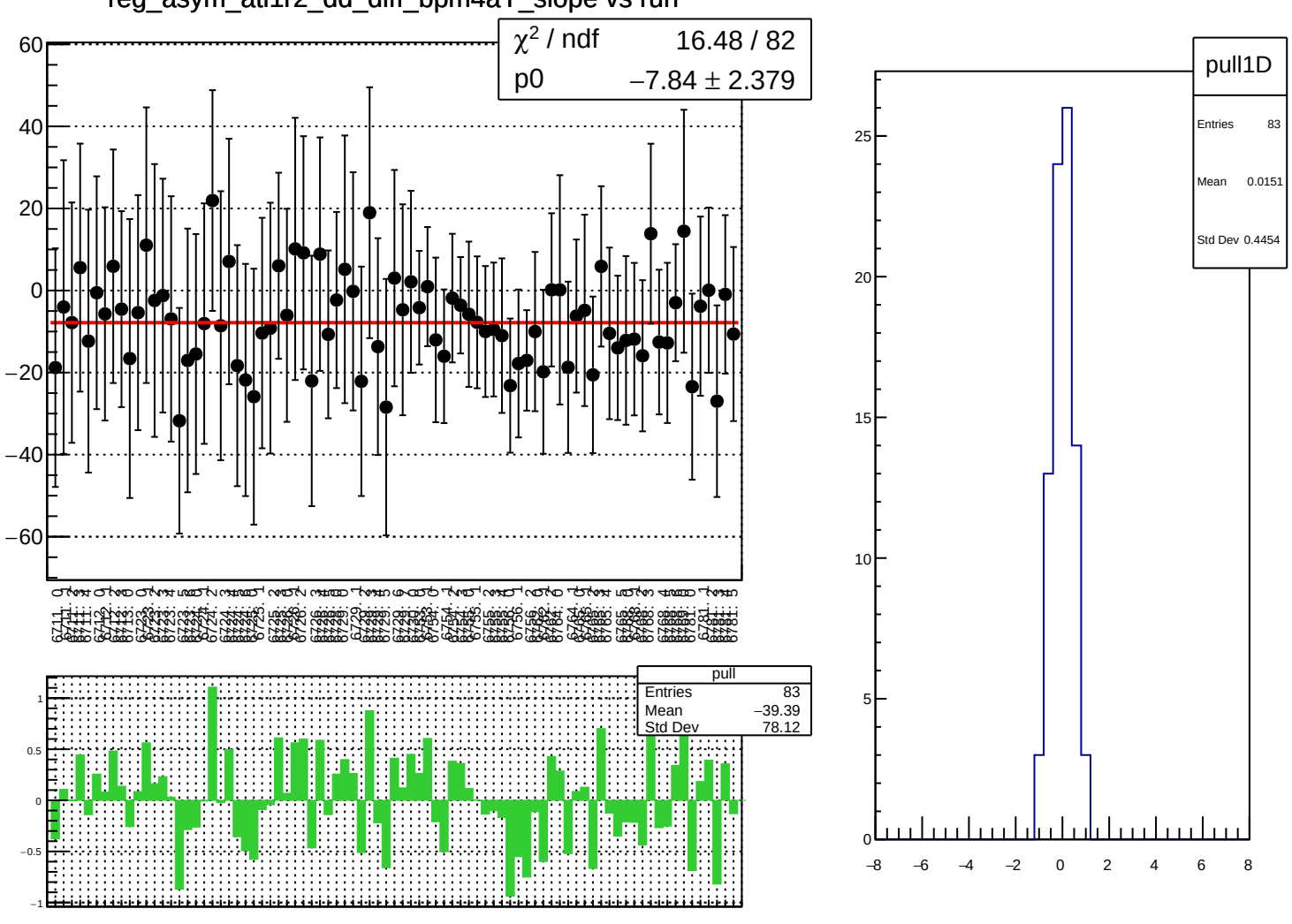

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.46 / 82
p0 314.1 ± 4.504
400
350
300
250
200
pull
Entries 83
Mean −232.5
Std Dev 310.4
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 83
Mean −0.002647
Std Dev 0.5428
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

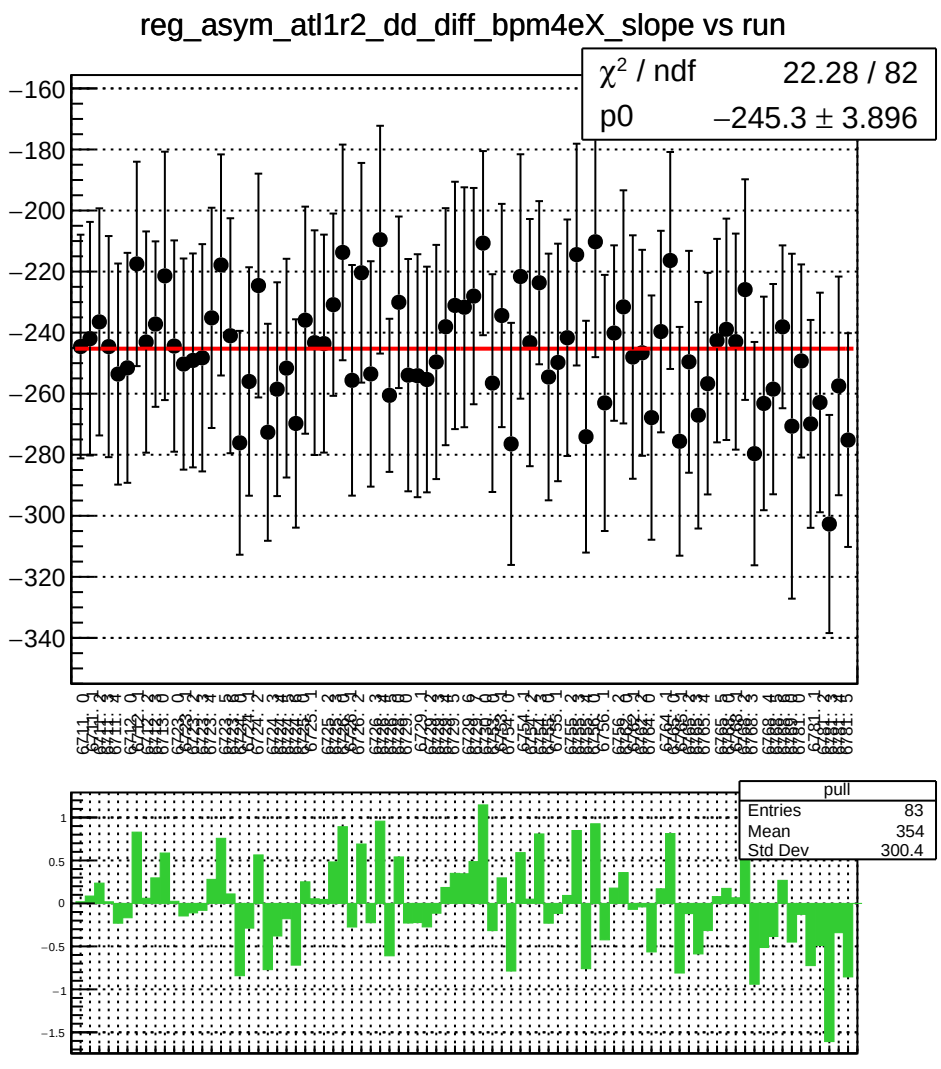

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.9 / 82
p0 38.86 ± 3.488
pull
Entries 83
Mean −97.51
Std Dev 141
pull1D
Entries 83
Mean 0.0478
Std Dev 0.4995

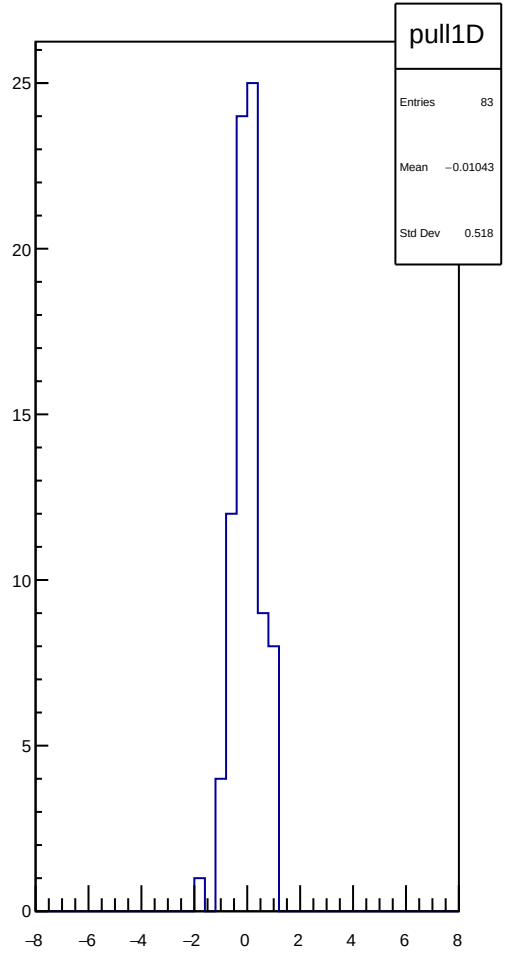

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 671.5 / 82
p0 −142.3 ± 0.2073
pull
Entries 83
Mean −196.5
Std Dev 240.2

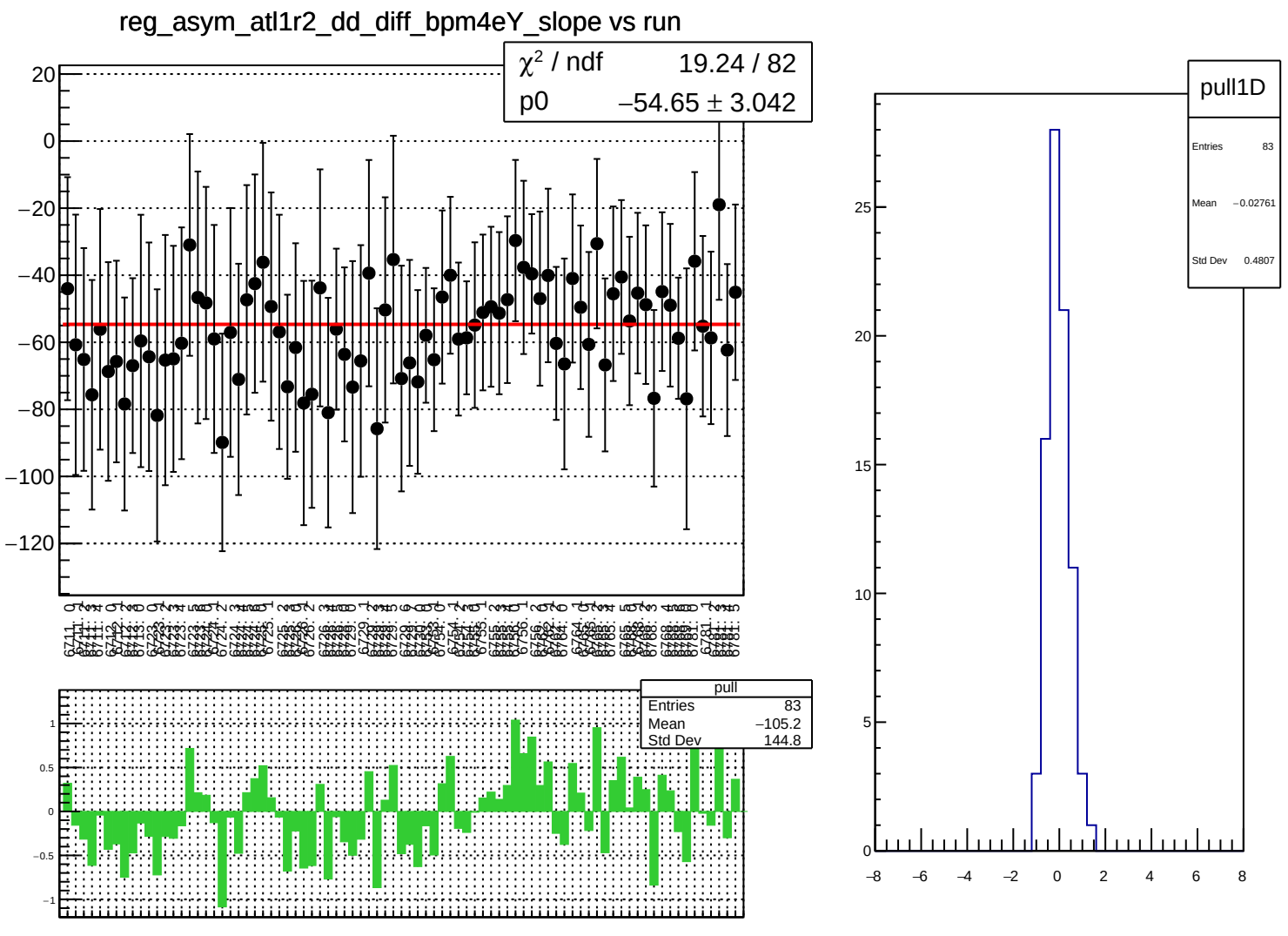

pull1D
Entries 83
Mean −0.2154
Std Dev 2.836

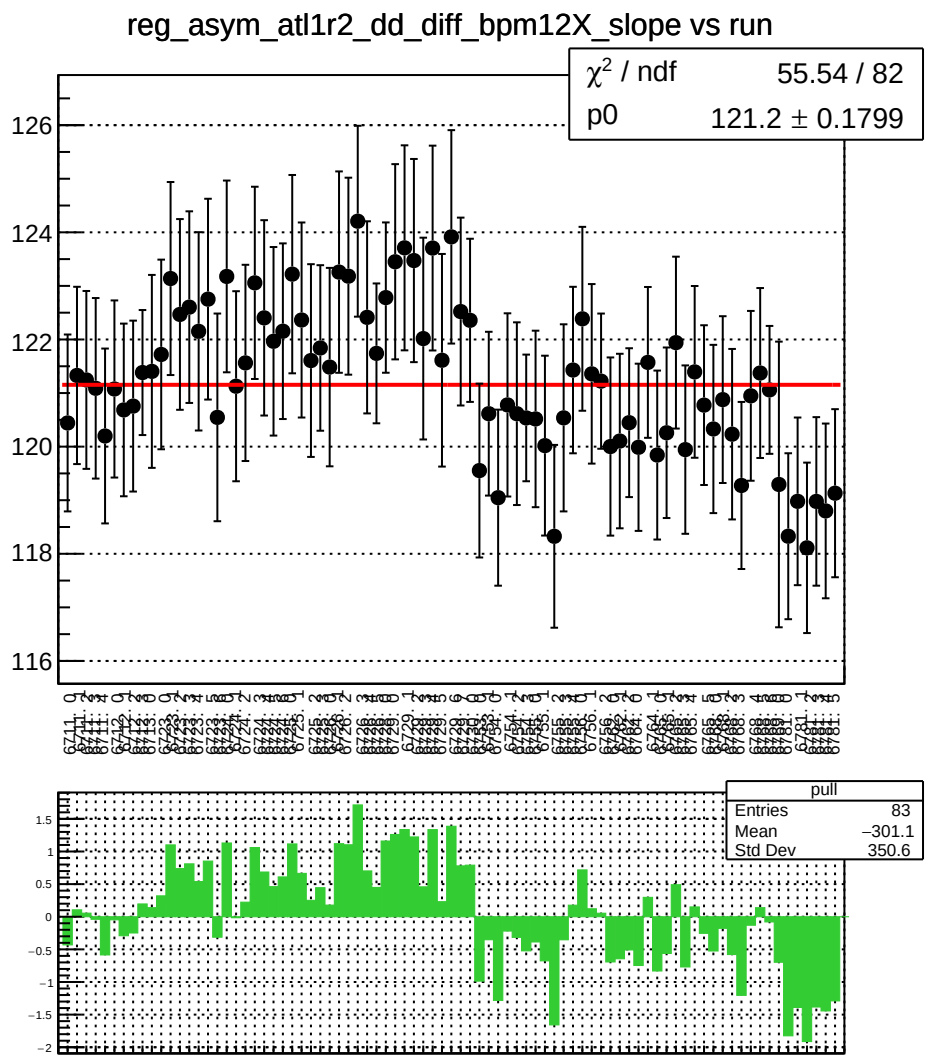

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 28.76 / 82
p0 218 ± 4.077
pull
Entries 83
Mean 439.7
Std Dev 392.2
pull1D
Entries 83
Mean 0.01799
Std Dev 0.5884

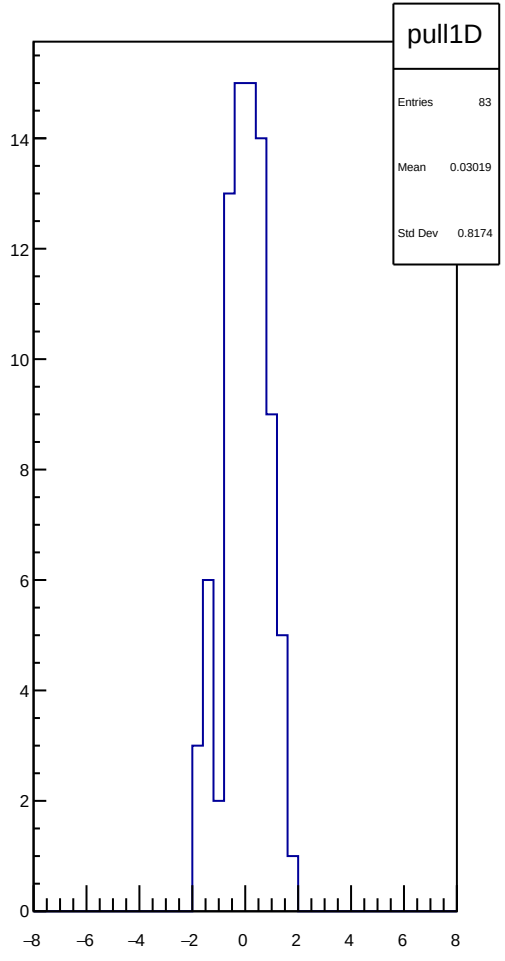

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.48 / 82
p0 −7.84 ± 2.379
pull
Entries 83
Mean −39.39
Std Dev 78.12
pull1D
Entries 83
Mean 0.0151
Std Dev 0.4454

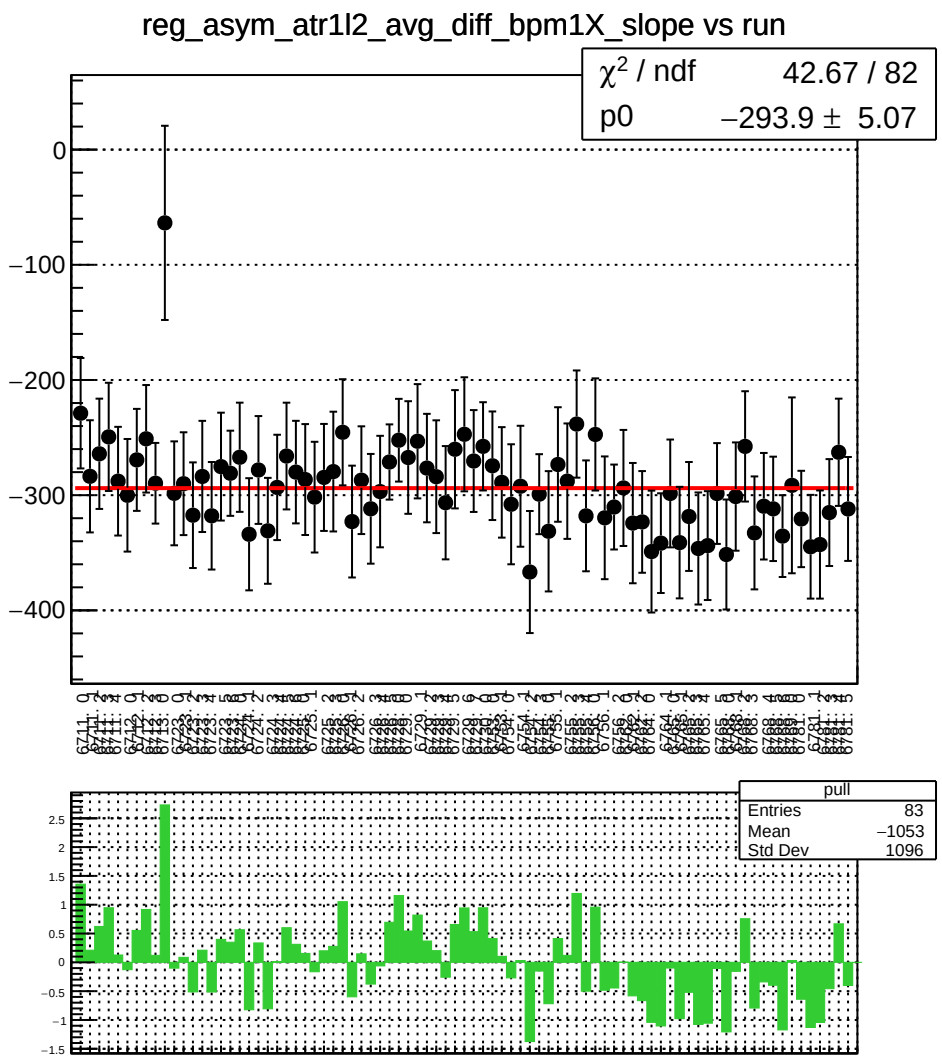

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.28 / 82
p0 −245.3 ± 3.896
pull
Entries 83
Mean 354
Std Dev 300.4

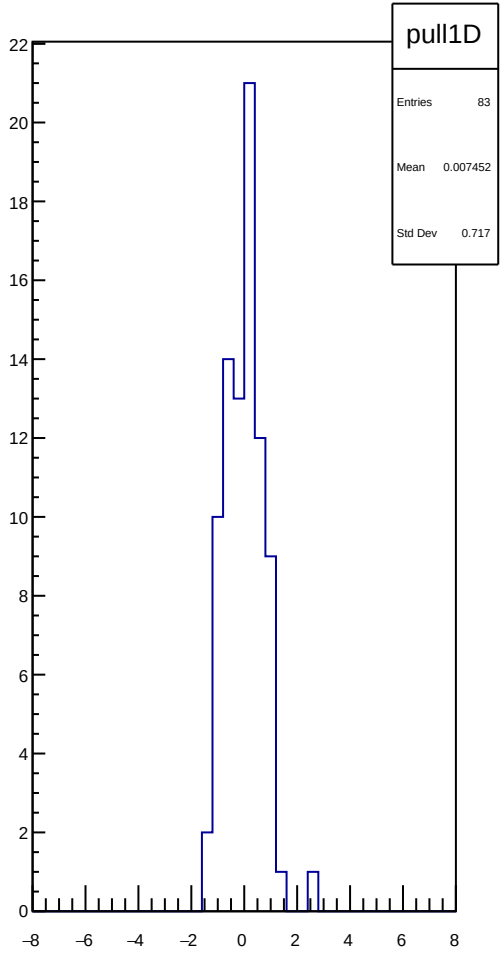

pull1D
Entries 83
Mean −0.01043
Std Dev 0.518

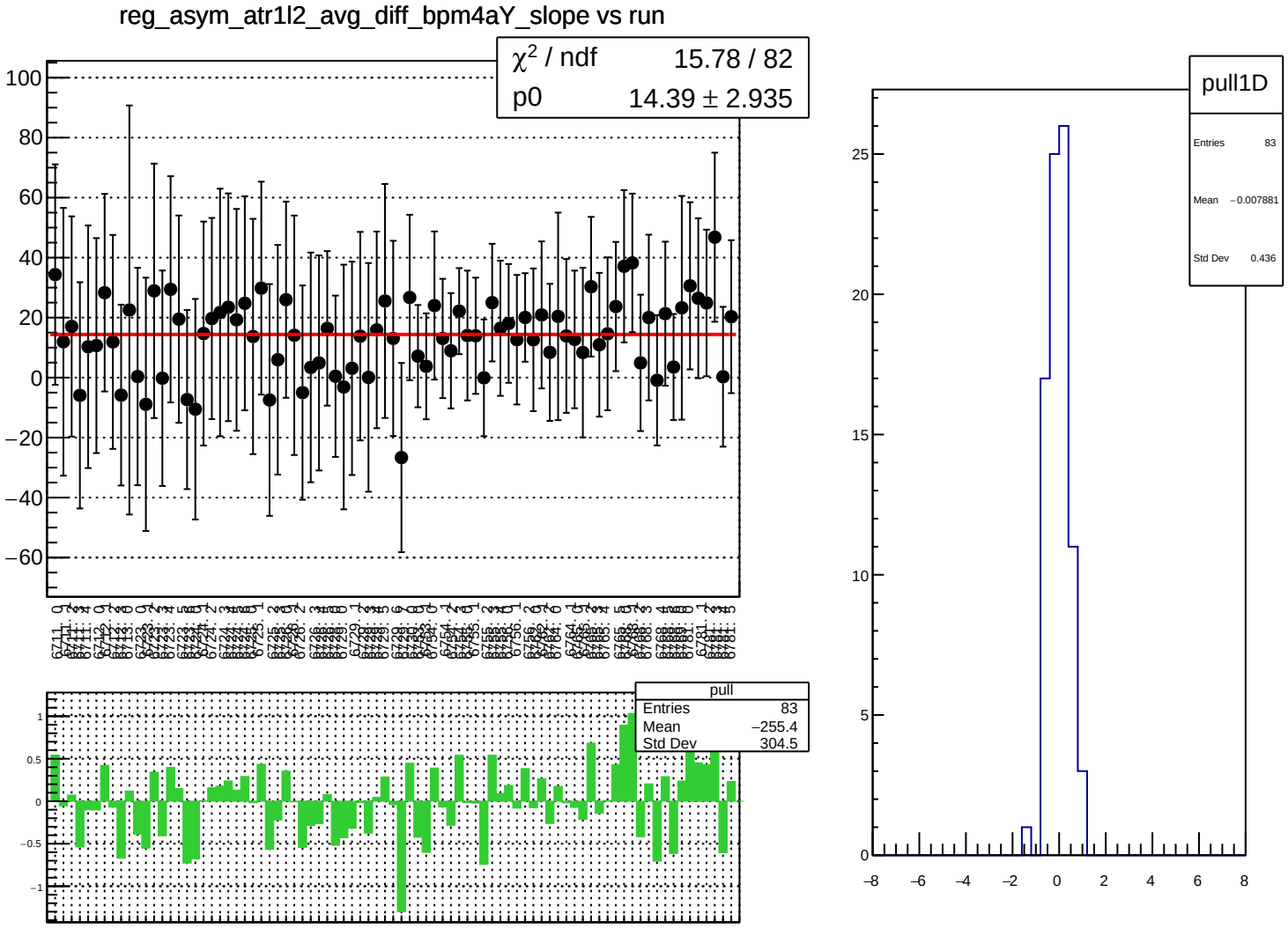

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.24 / 82
p0 −54.65 ± 3.042
pull
Entries 83
Mean −105.2
Std Dev 144.8
pull1D
Entries 83
Mean −0.02761
Std Dev 0.4807

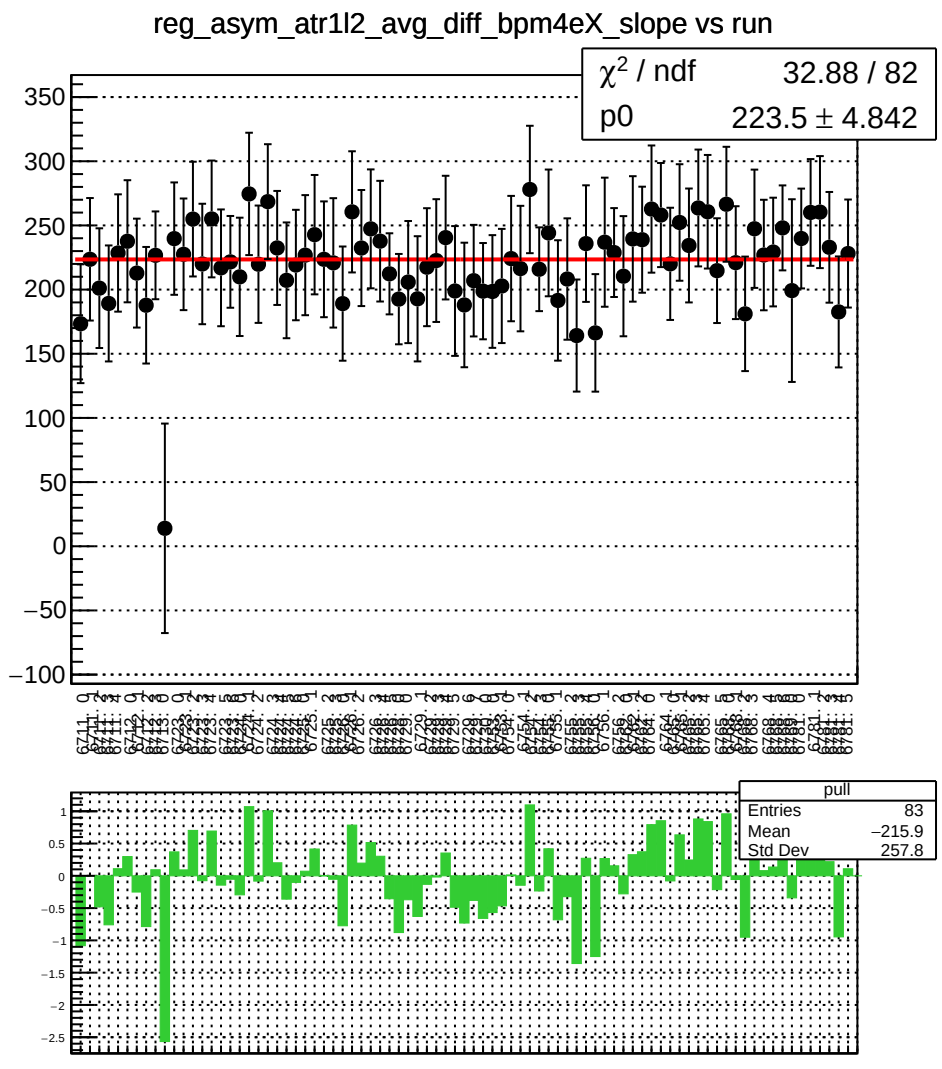

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 55.54 / 82
p0 121.2 ± 0.1799
126
124
122
120
118
116
pull
Entries 83
Mean −301.1
Std Dev 350.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

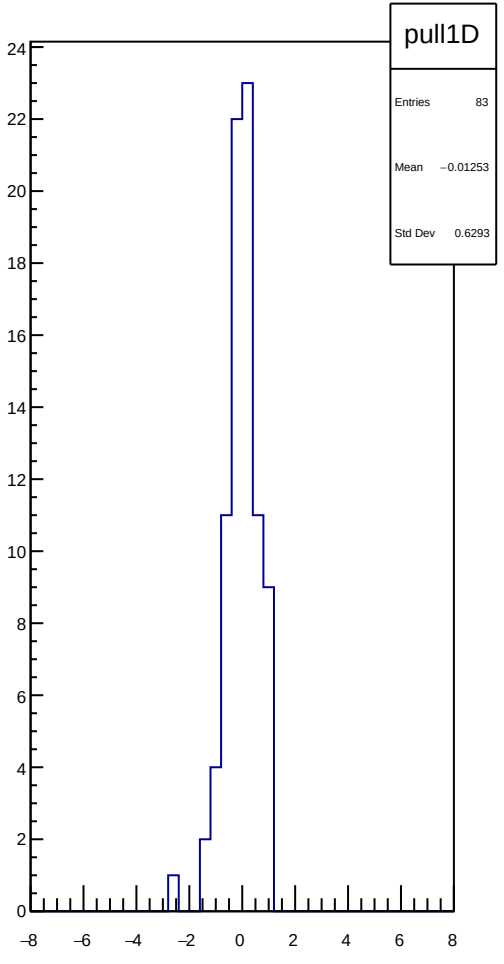

pull1D
Entries 83
Mean 0.03019
Std Dev 0.8174
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

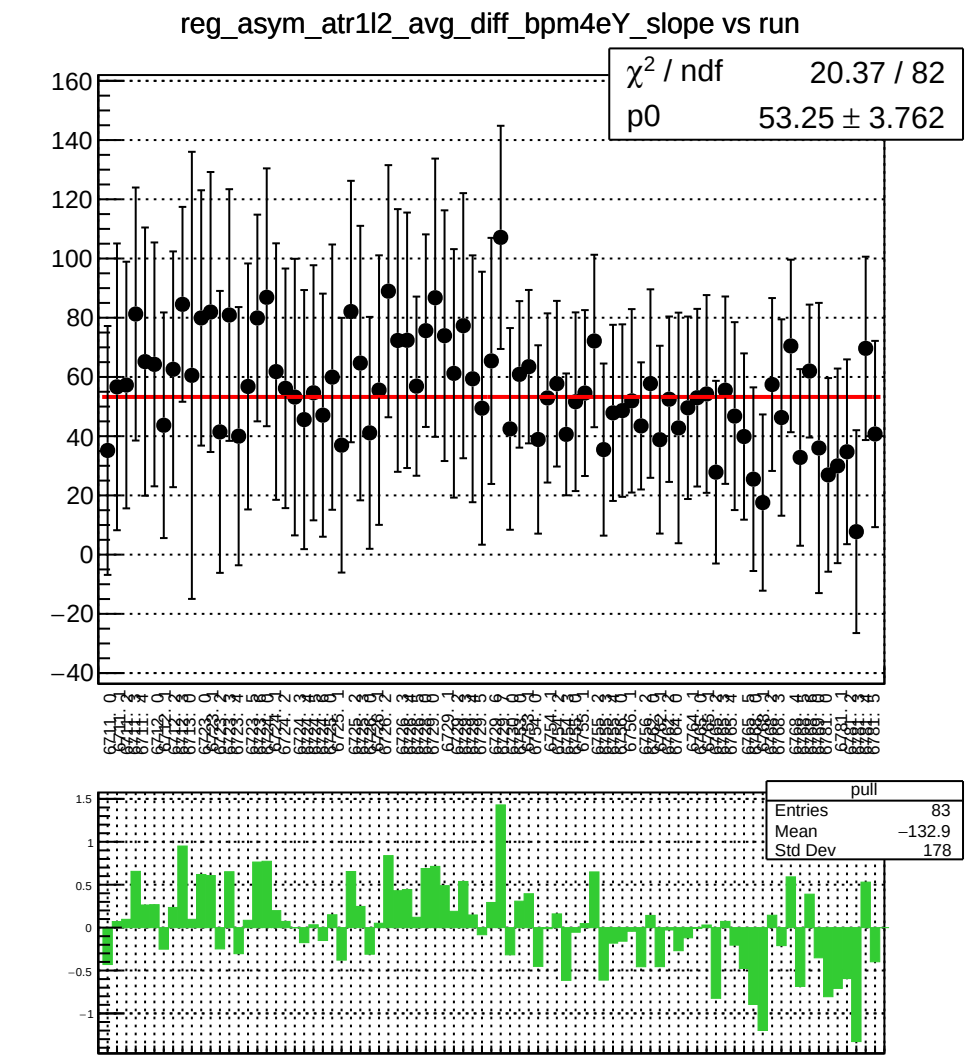

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 42.67 / 82
p0 −293.9 ± 5.07
0
−100
−200
−300
−400
pull
Entries 83
Mean −1053
Std Dev 1096
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

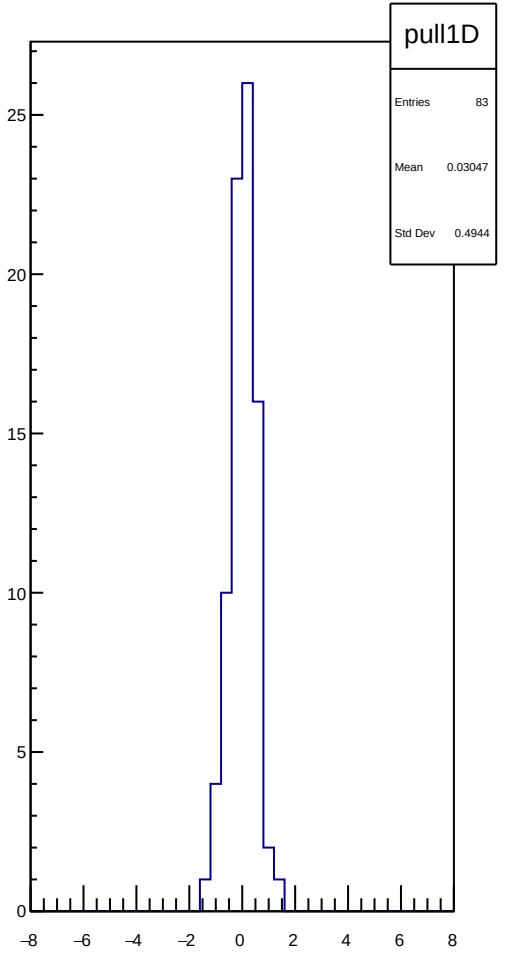

pull1D
Entries 83
Mean 0.007452
Std Dev 0.717
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

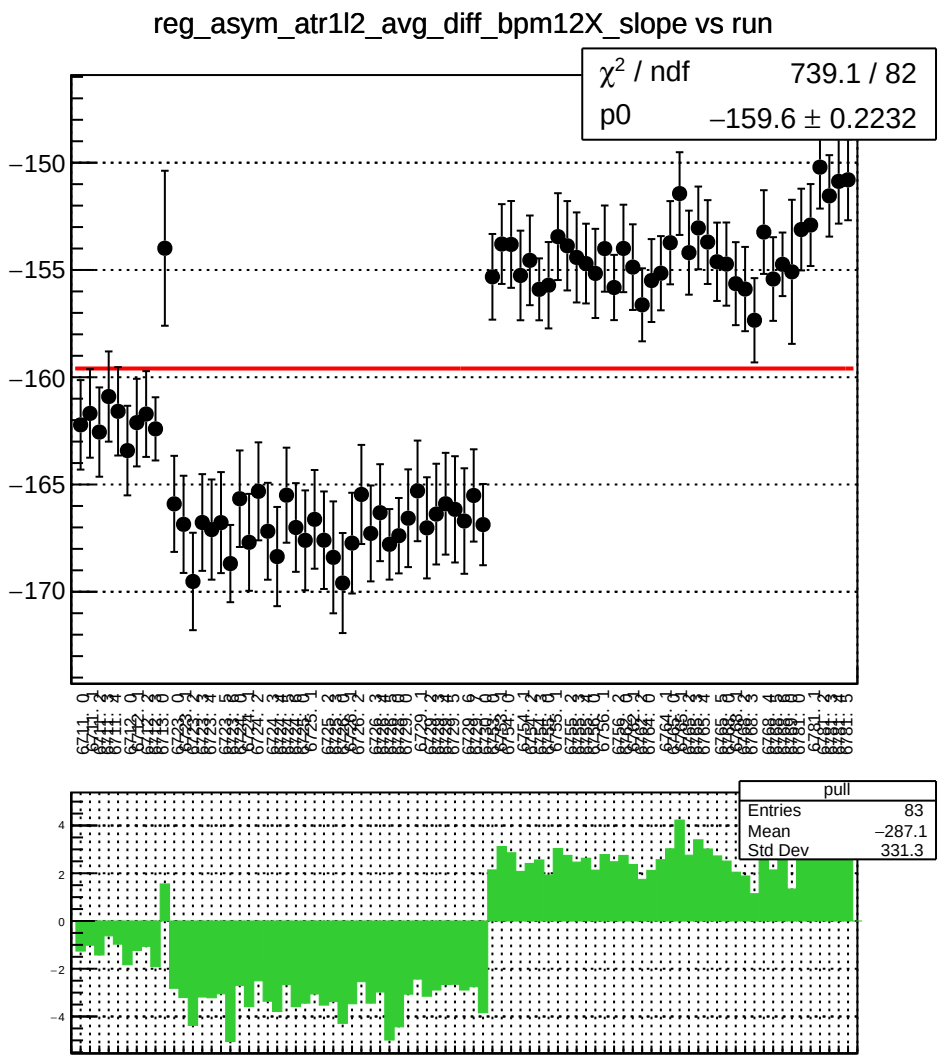

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.78 / 82
p0 14.39 ± 2.935
pull
Entries 83
Mean −255.4
Std Dev 304.5
pull1D
Entries 83
Mean −0.007881
Std Dev 0.436

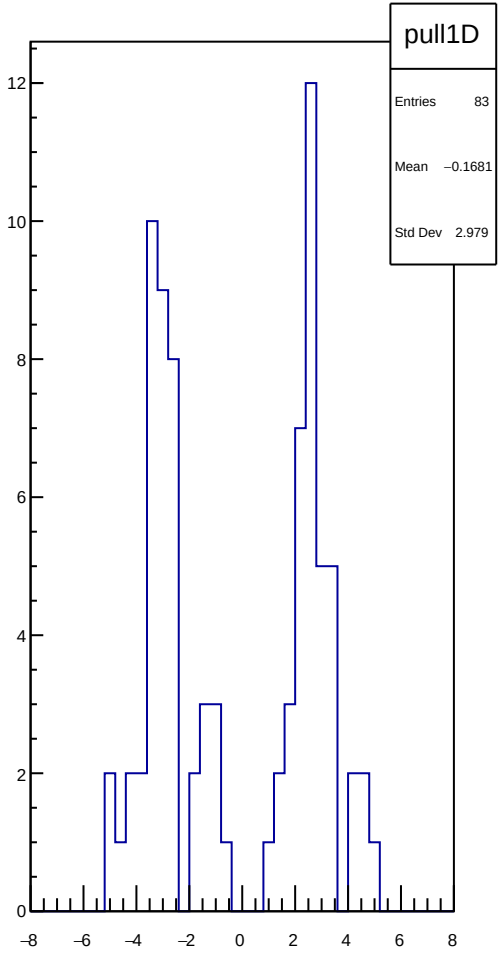

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.88 / 82
p0 223.5 ± 4.842
pull
Entries 83
Mean −215.9
Std Dev 257.8

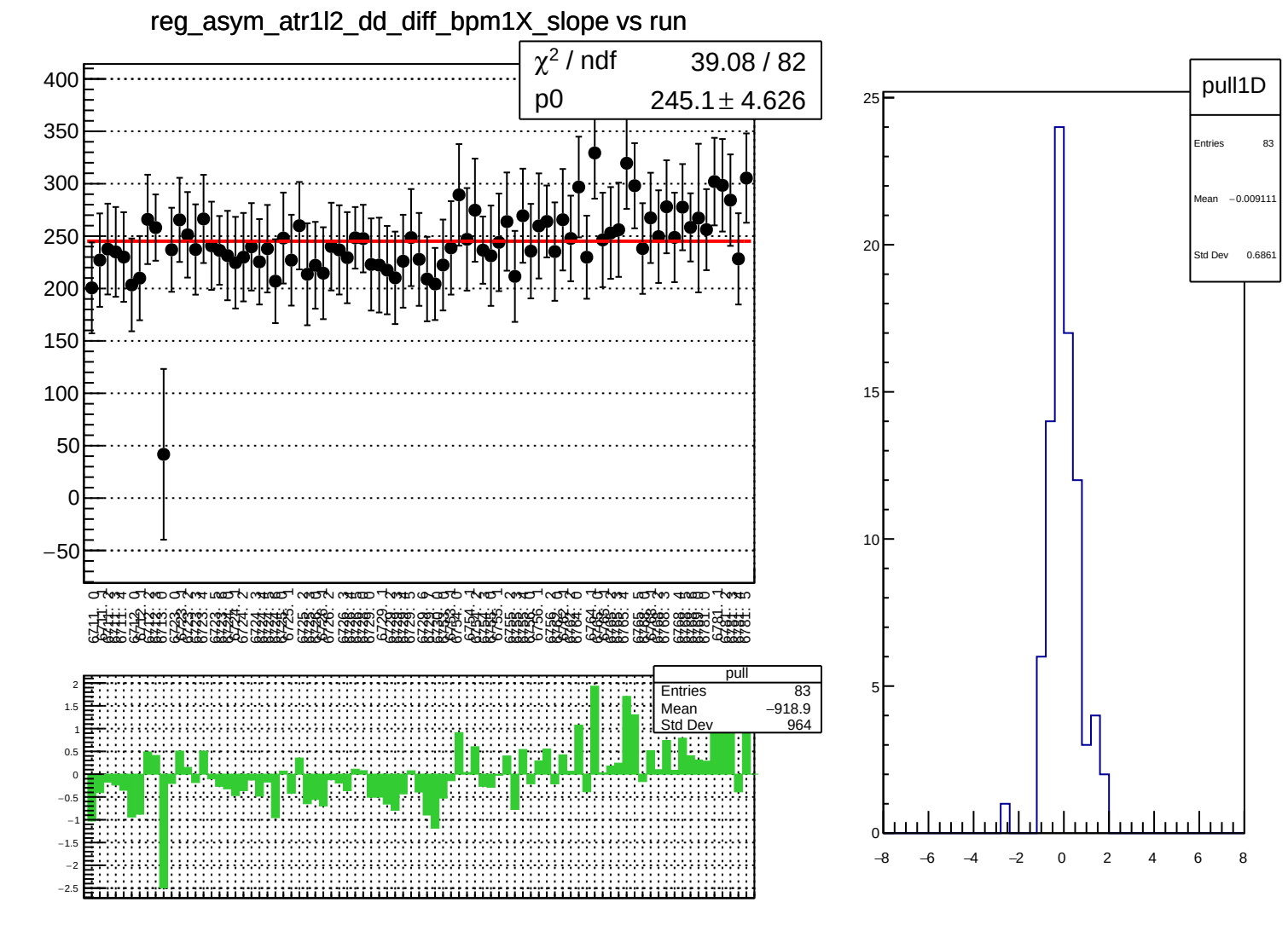

pull1D
Entries 83
Mean −0.01253
Std Dev 0.6293

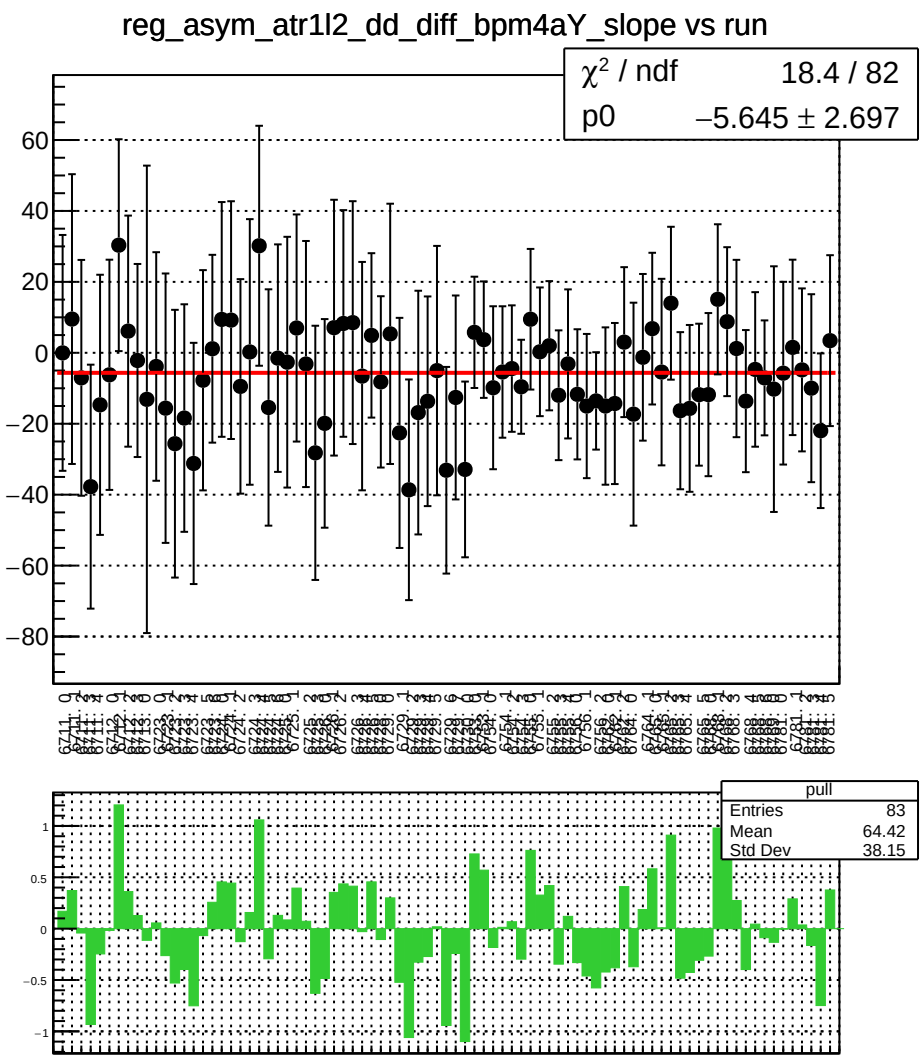

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.37 / 82
p0 53.25 ± 3.762
pull
Entries 83
Mean −132.9
Std Dev 178

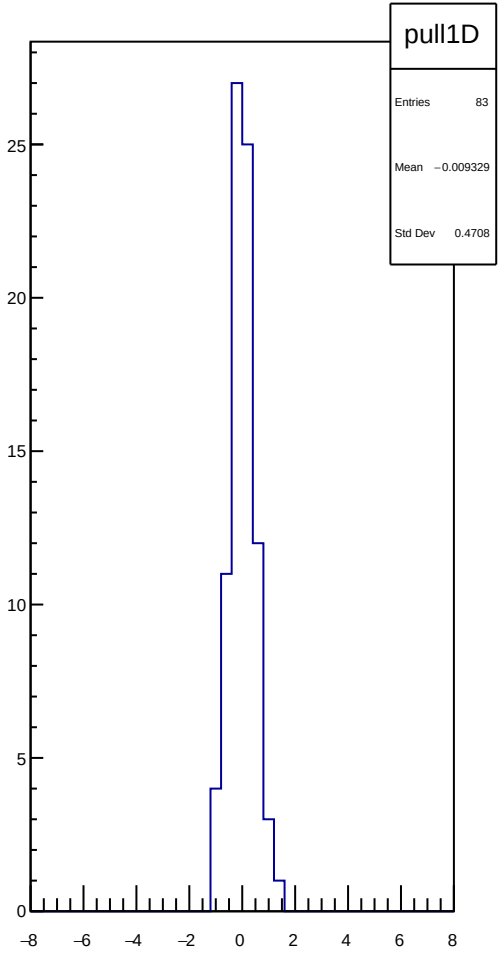

pull1D
Entries 83
Mean 0.03047
Std Dev 0.4944

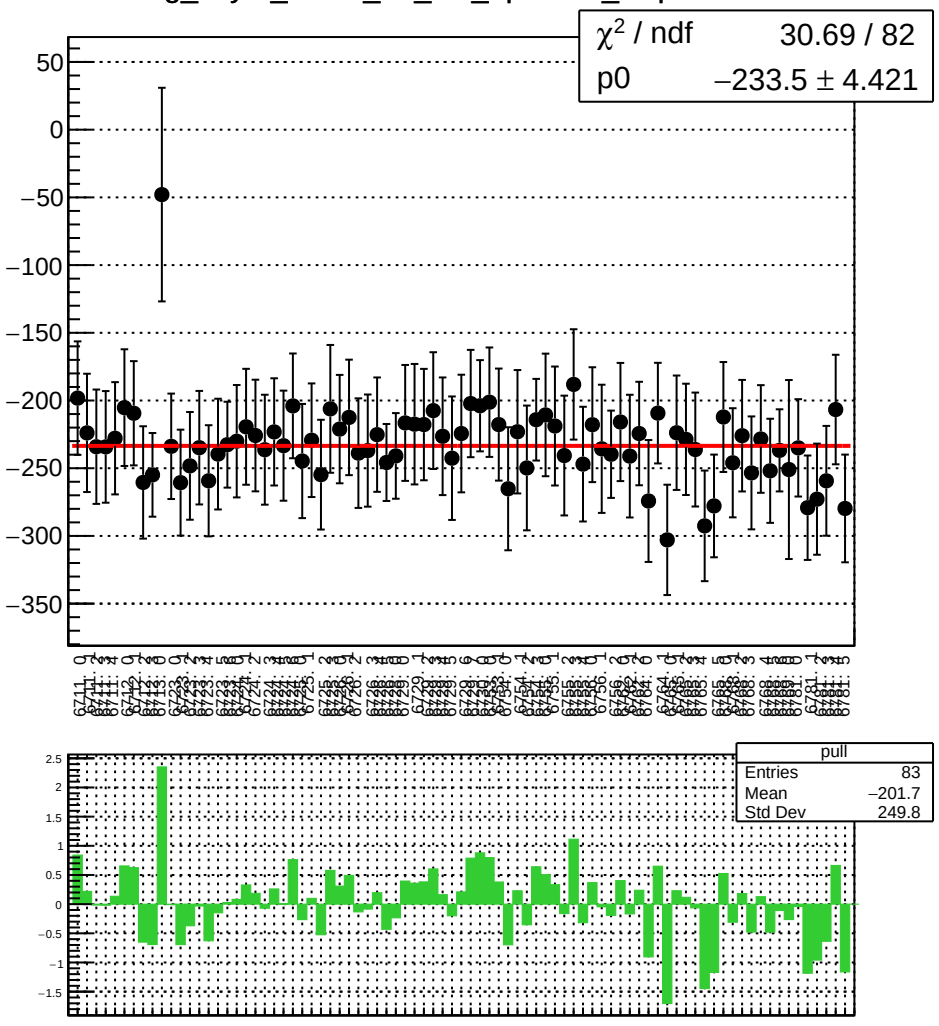

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 739.1 / 82
p0 −159.6 ± 0.2232
−150
−155
−160
−165
−170
pull
Entries 83
Mean −287.1
Std Dev 331.3
4
2
0
−2
−4

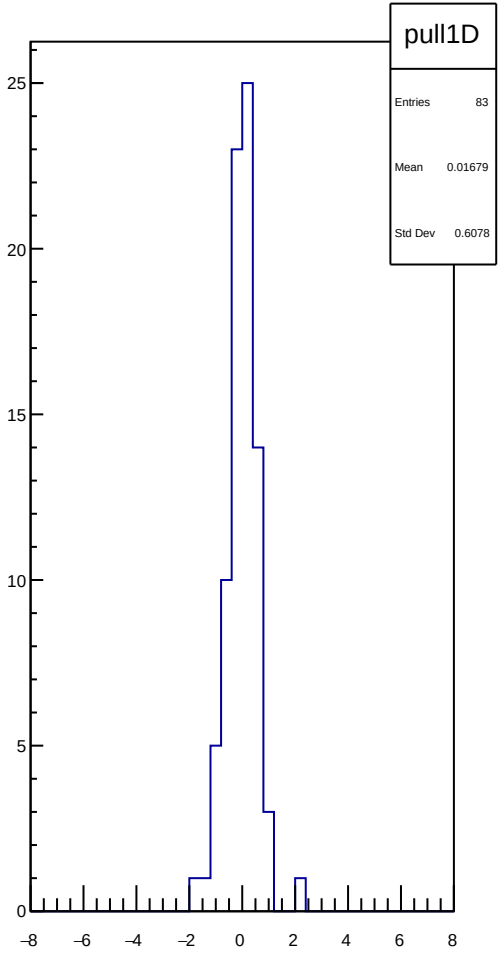

pull1D
Entries 83
Mean −0.1681
Std Dev 2.979
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

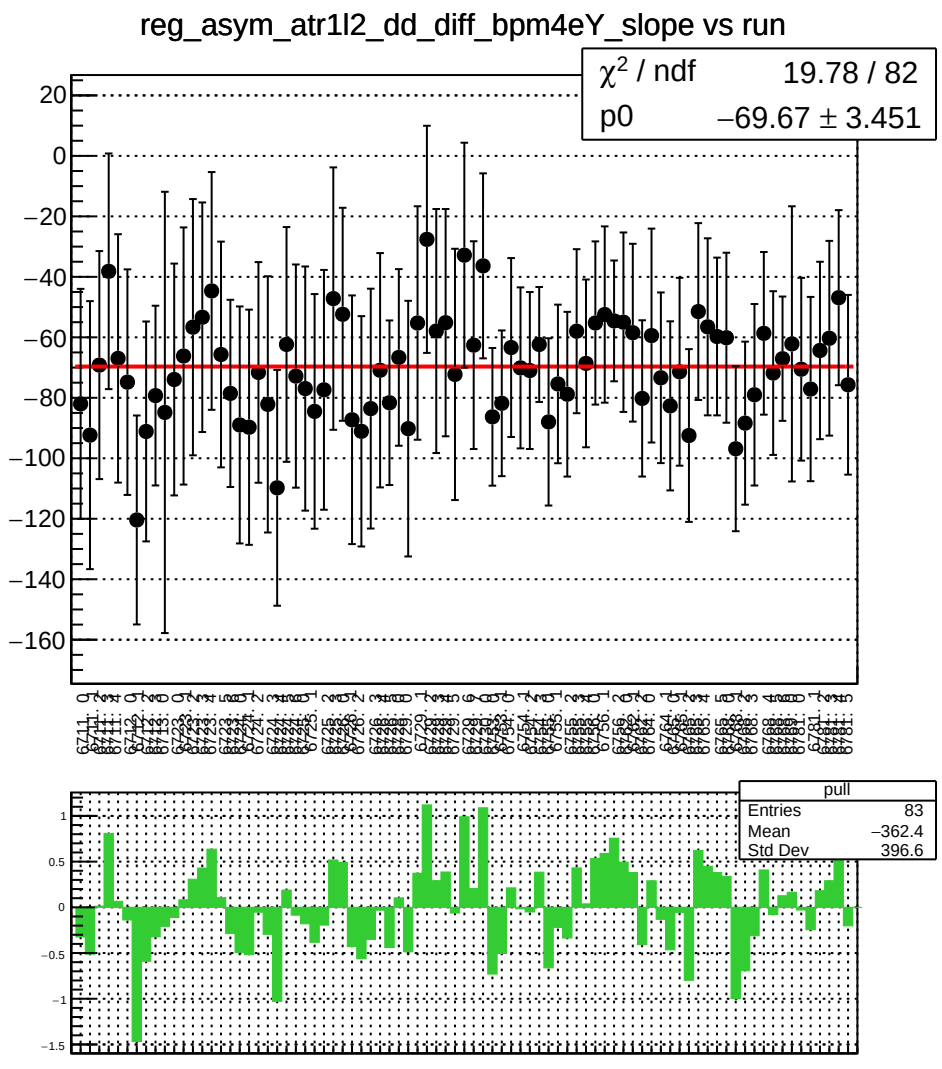

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 39.08 / 82
p0 245.1 ± 4.626
pull
Entries 83
Mean −918.9
Std Dev 964
pull1D
Entries 83
Mean −0.009111
Std Dev 0.6861

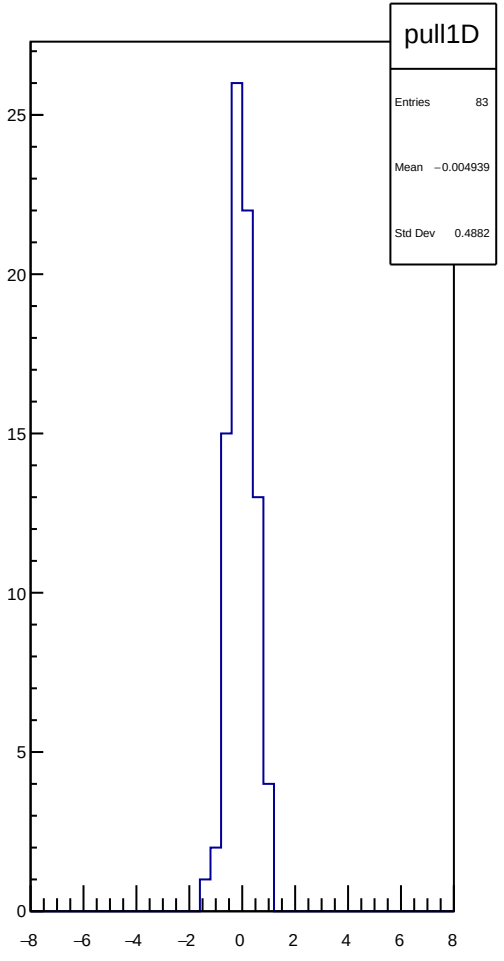

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.4 / 82
p0 −5.645 ± 2.697
pull
Entries 83
Mean 64.42
Std Dev 38.15

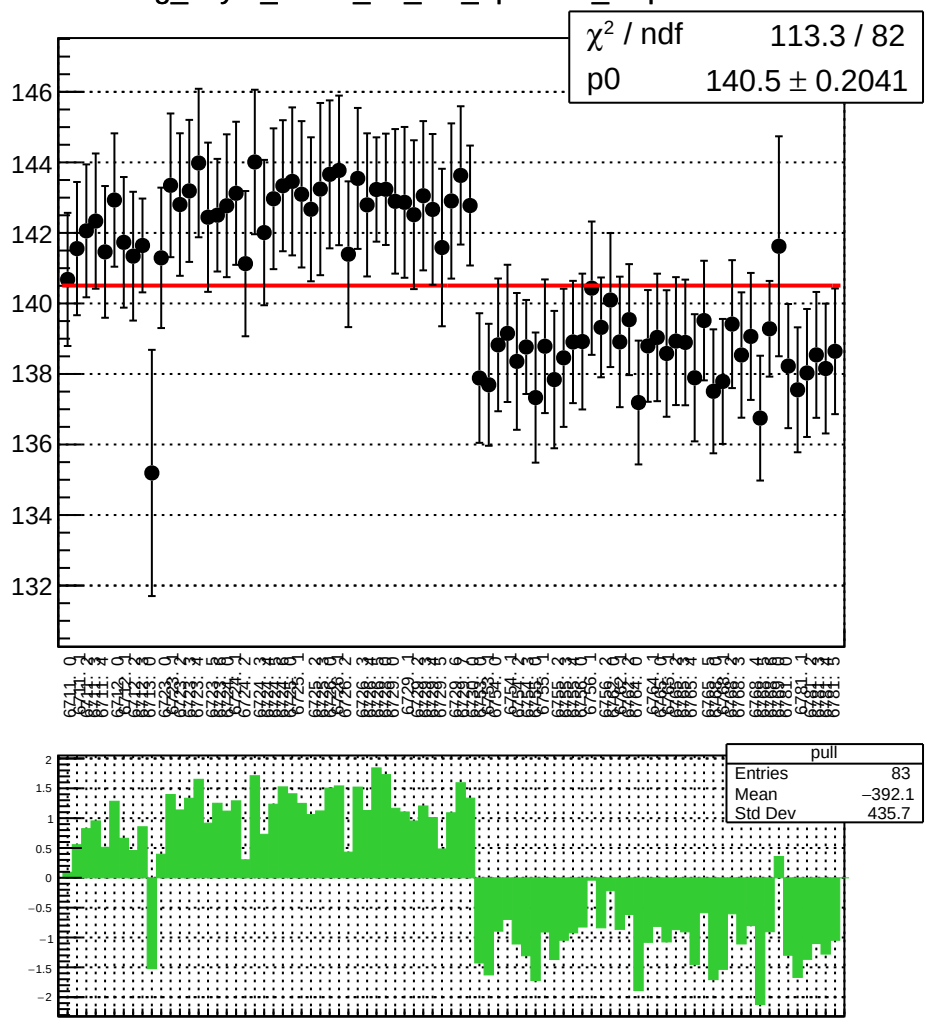

pull1D
Entries 83
Mean −0.009329
Std Dev 0.4708

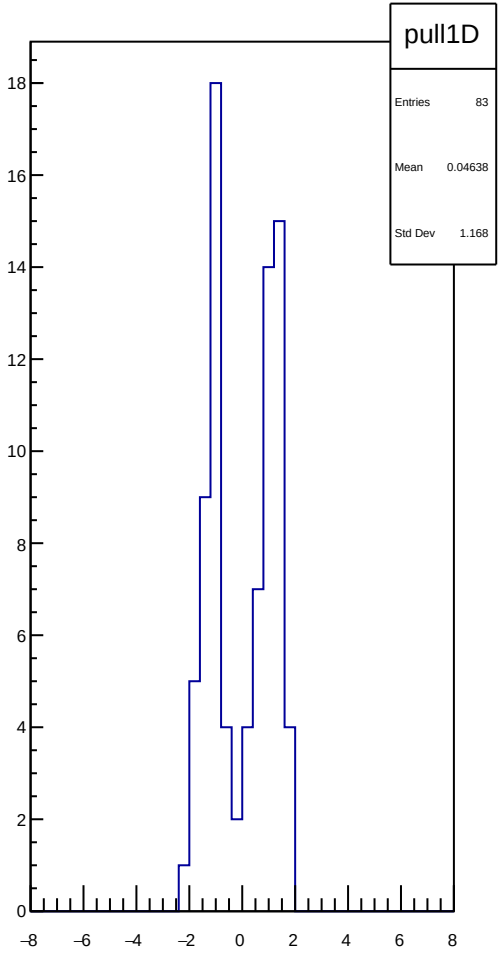

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.69 / 82
p0 −233.5 ± 4.421
pull
Entries 83
Mean −201.7
Std Dev 249.8

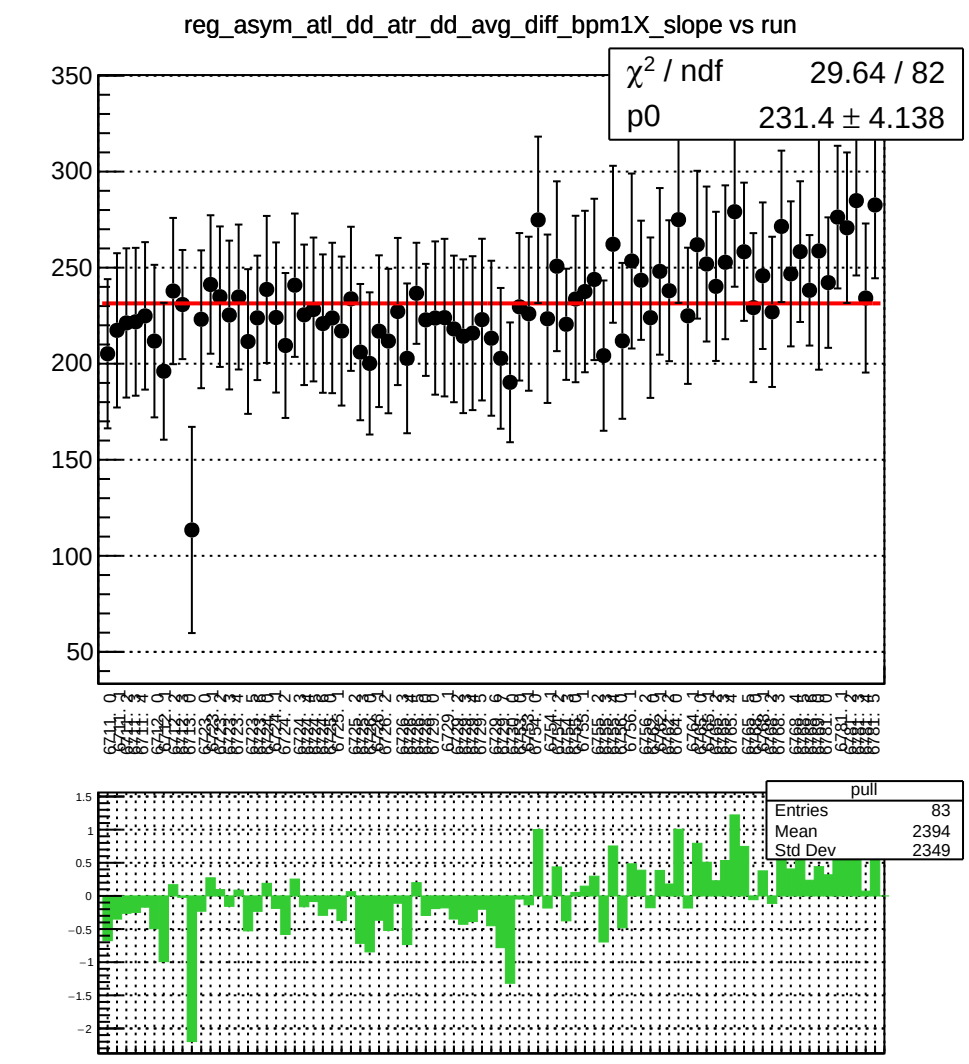

pull1D
Entries 83
Mean 0.01679
Std Dev 0.6078

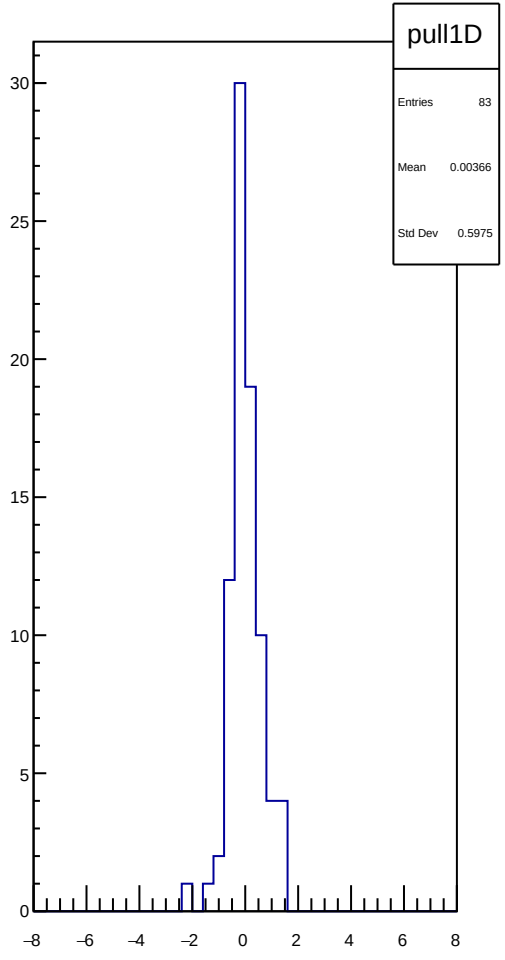

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.78 / 82
p0 −69.67 ± 3.451
pull
Entries 83
Mean −362.4
Std Dev 396.6

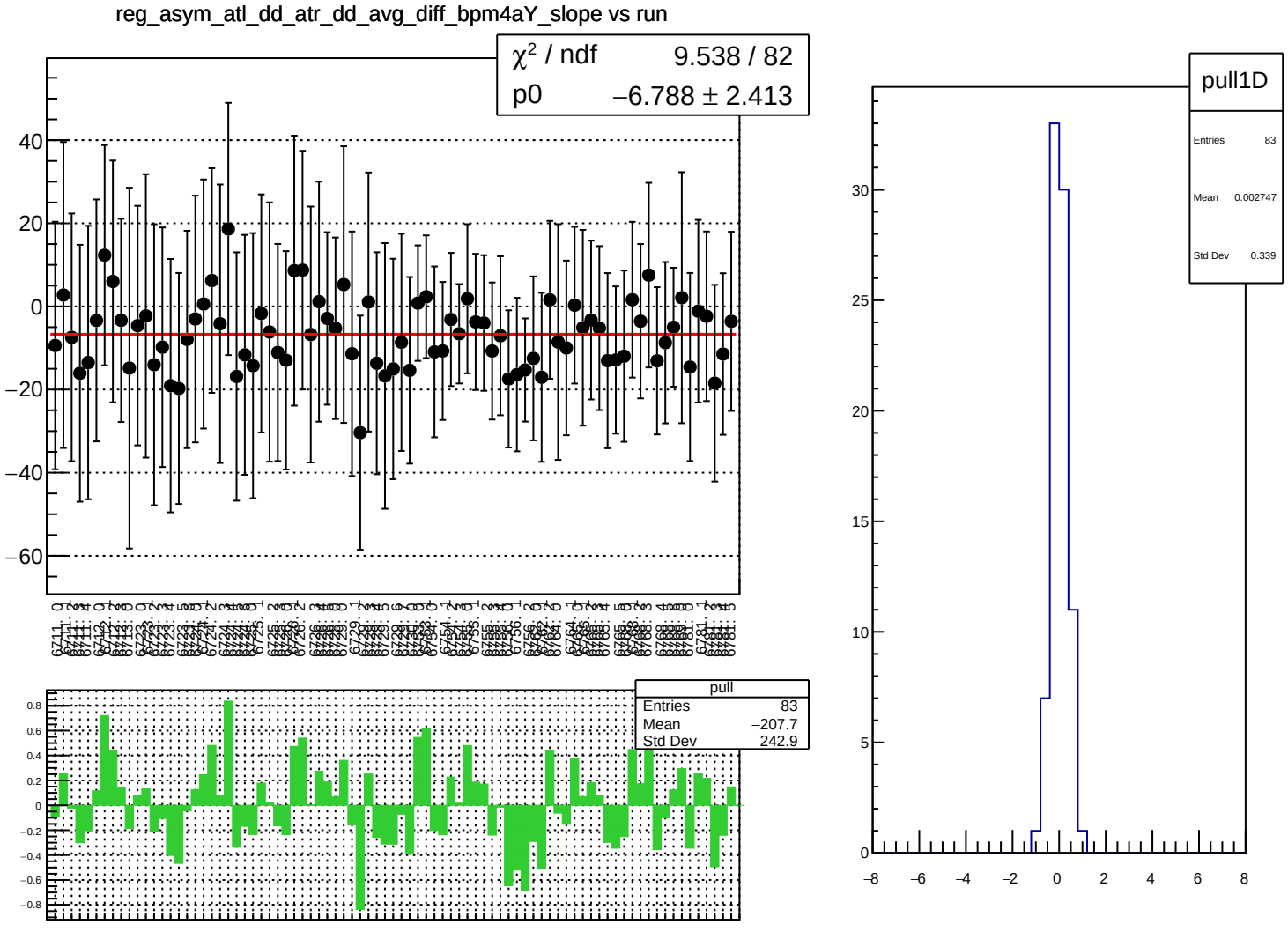

pull1D
Entries 83
Mean −0.004939
Std Dev 0.4882

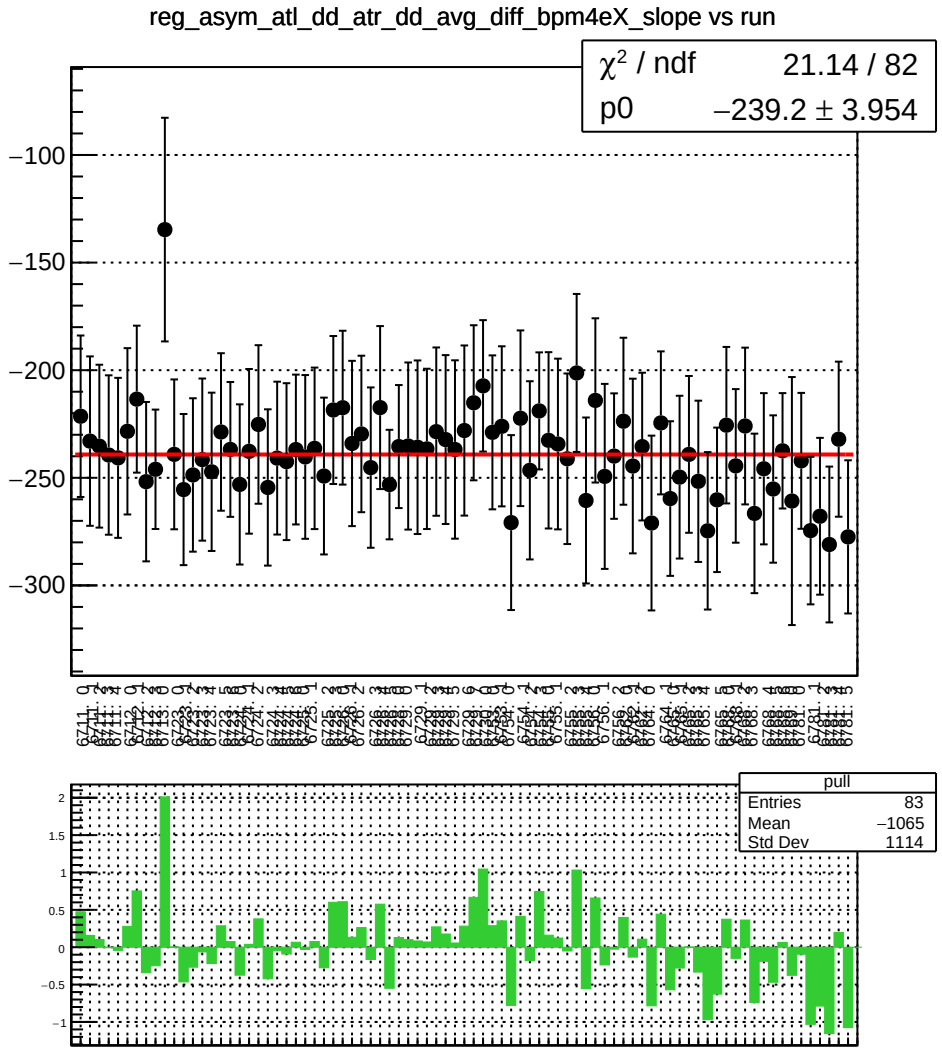

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 113.3 / 82
p0 140.5 ± 0.2041
pull
Entries 83
Mean −392.1
Std Dev 435.7

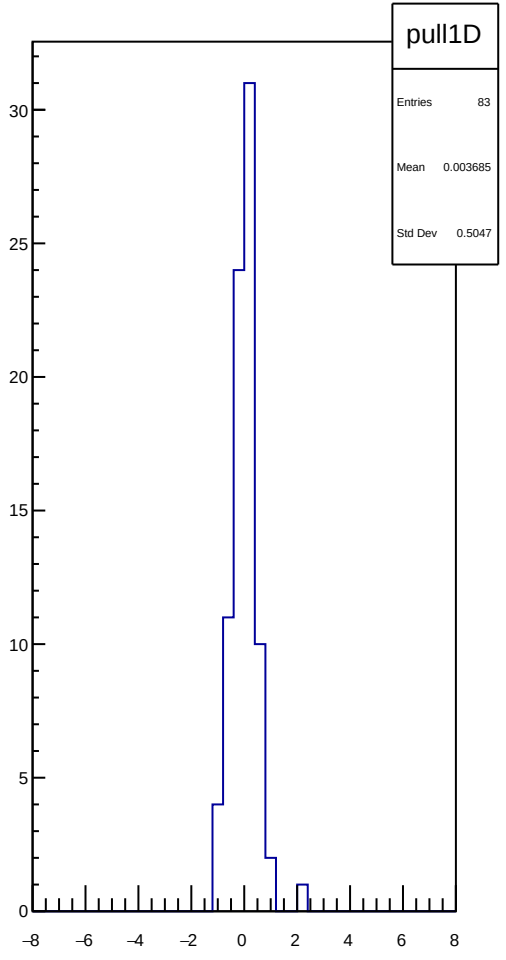

pull1D
Entries 83
Mean 0.04638
Std Dev 1.168

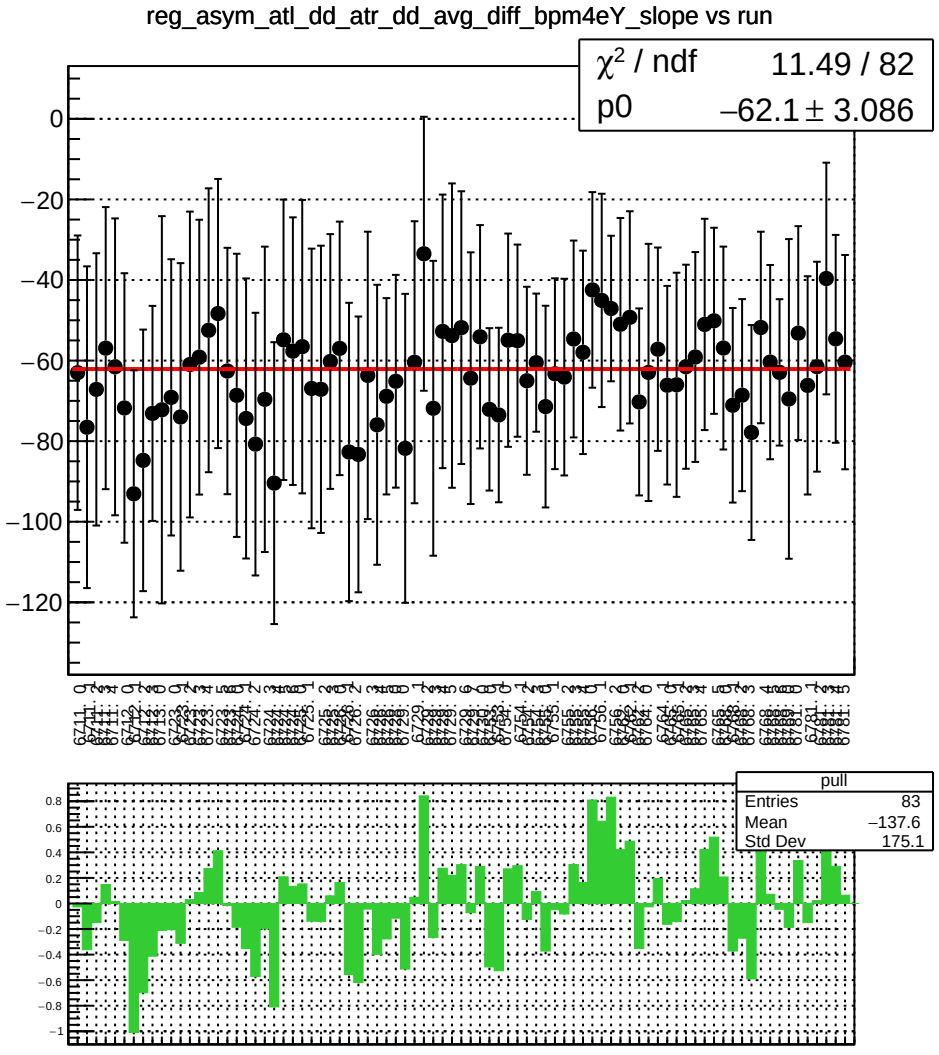

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 29.64 / 82
p0 231.4 ± 4.138
pull
Entries 83
Mean 2394
Std Dev 2349

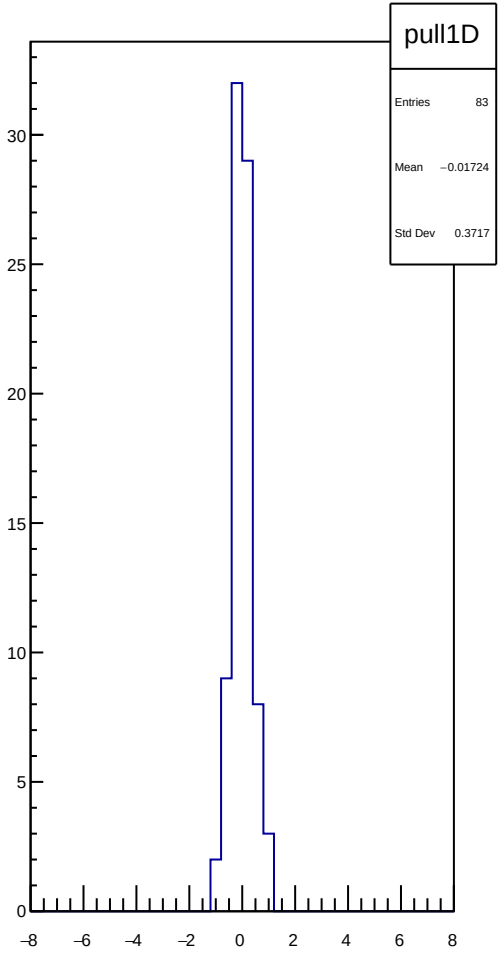

pull1D
Entries 83
Mean 0.00366
Std Dev 0.5975

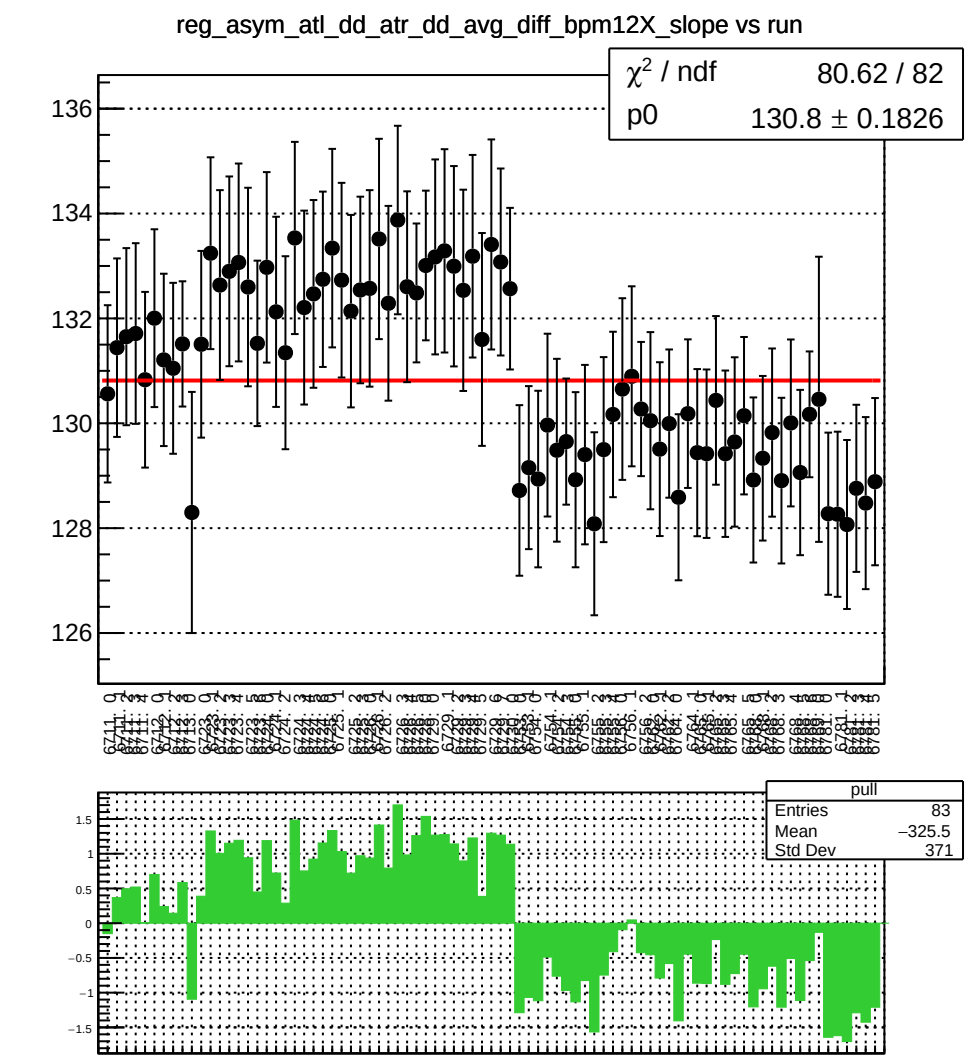

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.538 / 82
p0 −6.788 ± 2.413
pull
Entries 83
Mean −207.7
Std Dev 242.9
pull1D
Entries 83
Mean 0.002747
Std Dev 0.339

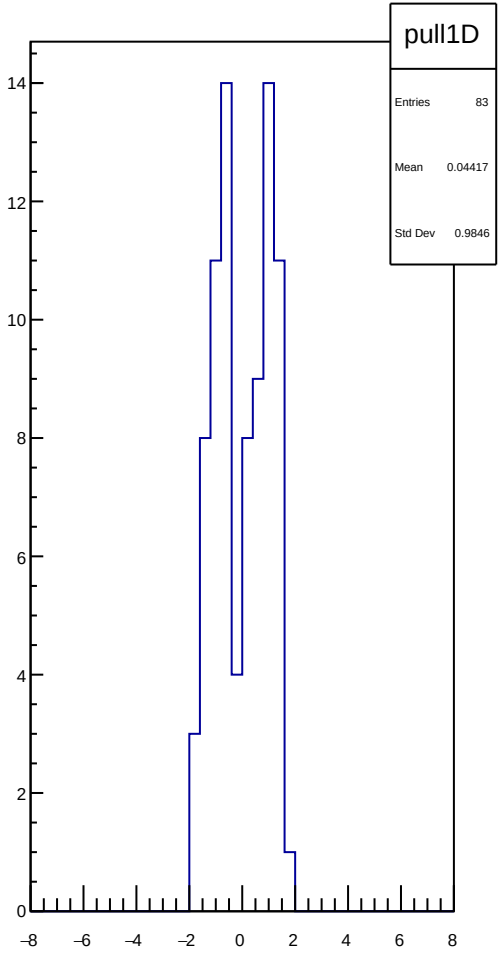

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.14 / 82
p0 −239.2 ± 3.954
−100
−150
−200
−250
−300
pull
Entries 83
Mean −1065
Std Dev 1114
2
1.5
1
0.5
0
−0.5
−1

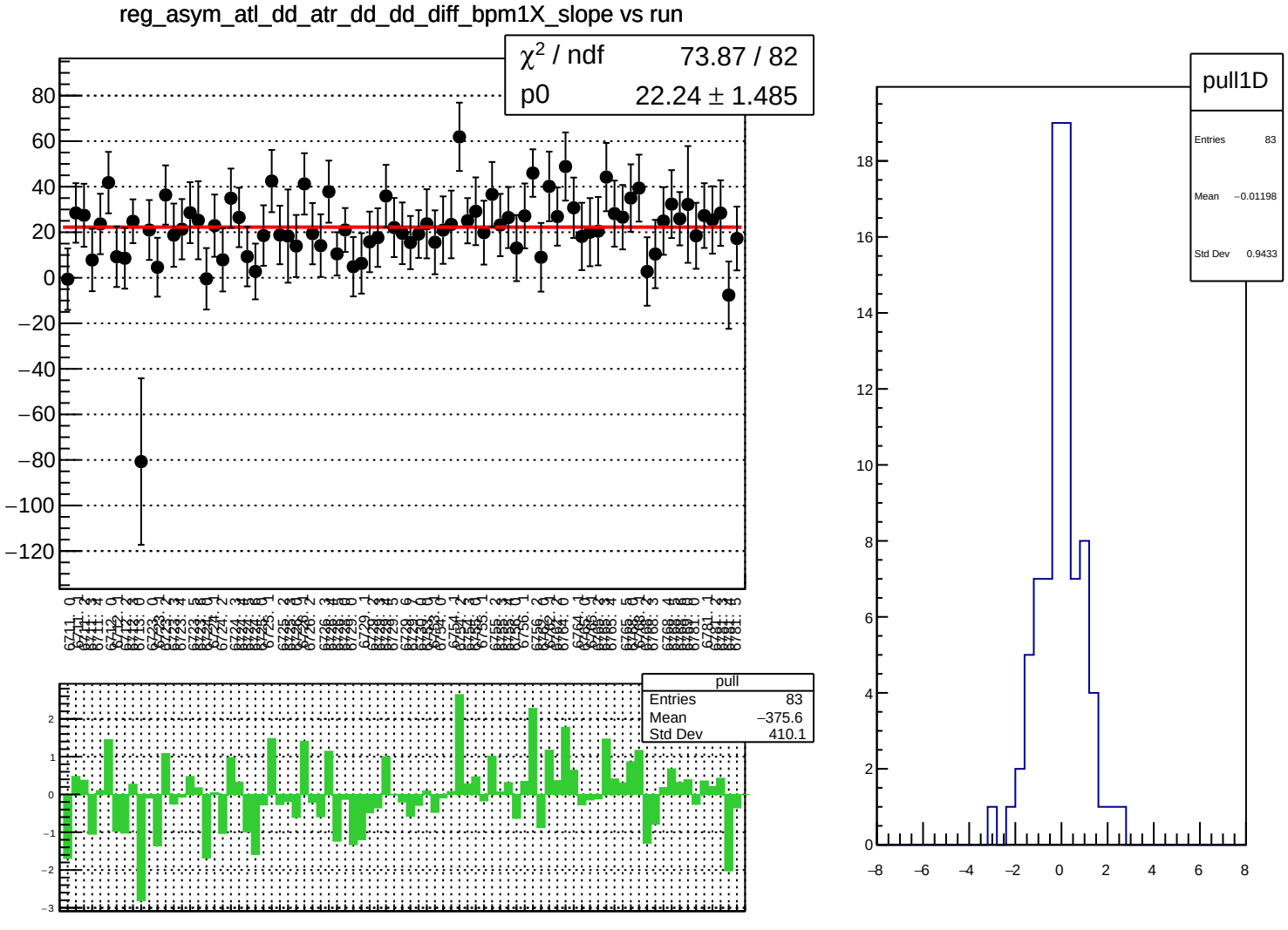

pull1D
Entries 83
Mean 0.003685
Std Dev 0.5047
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

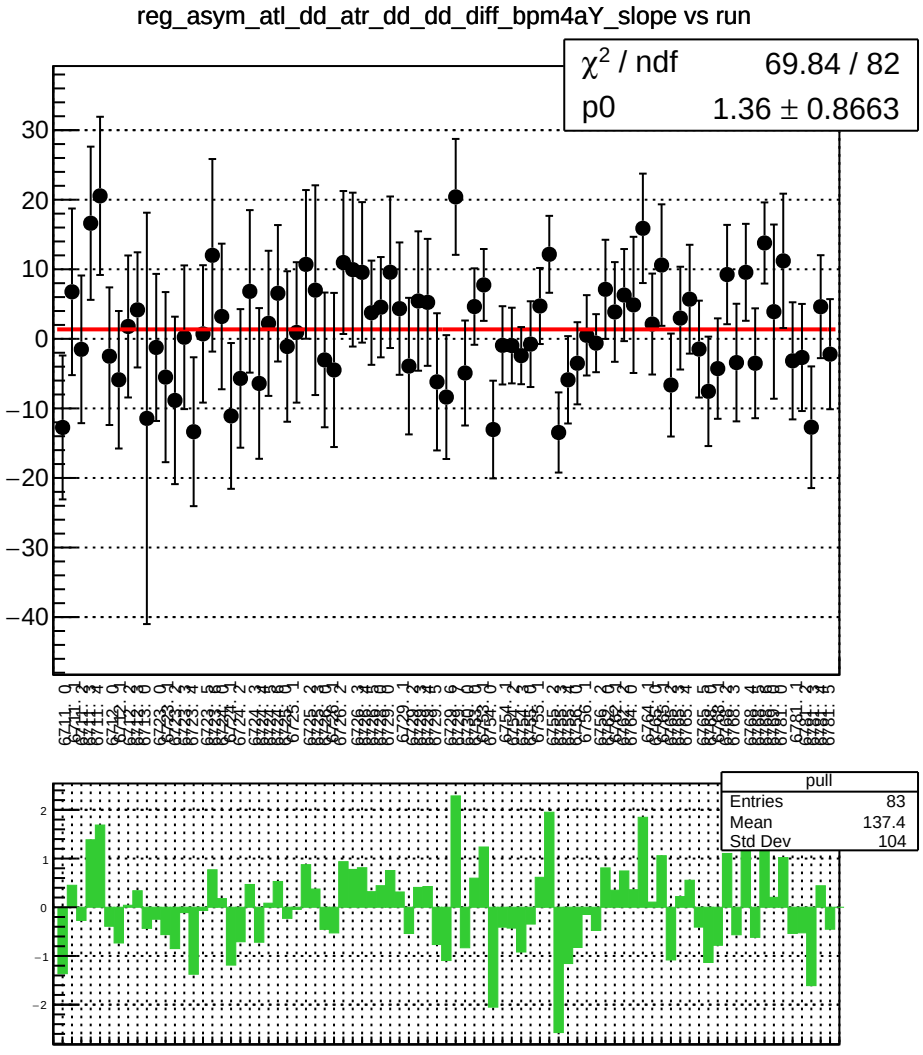

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.49 / 82
p0 −62.1 ± 3.086
pull
Entries 83
Mean −137.6
Std Dev 175.1

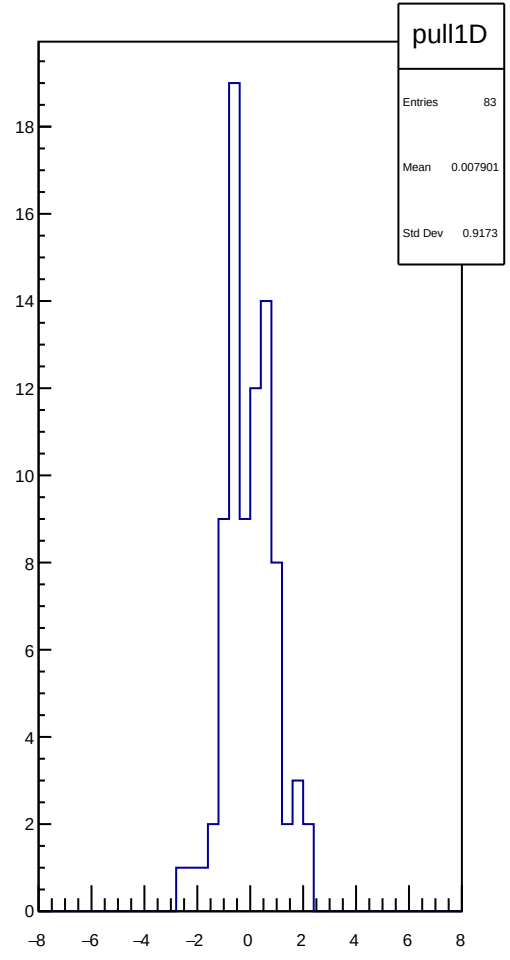

pull1D
Entries 83
Mean −0.01724
Std Dev 0.3717

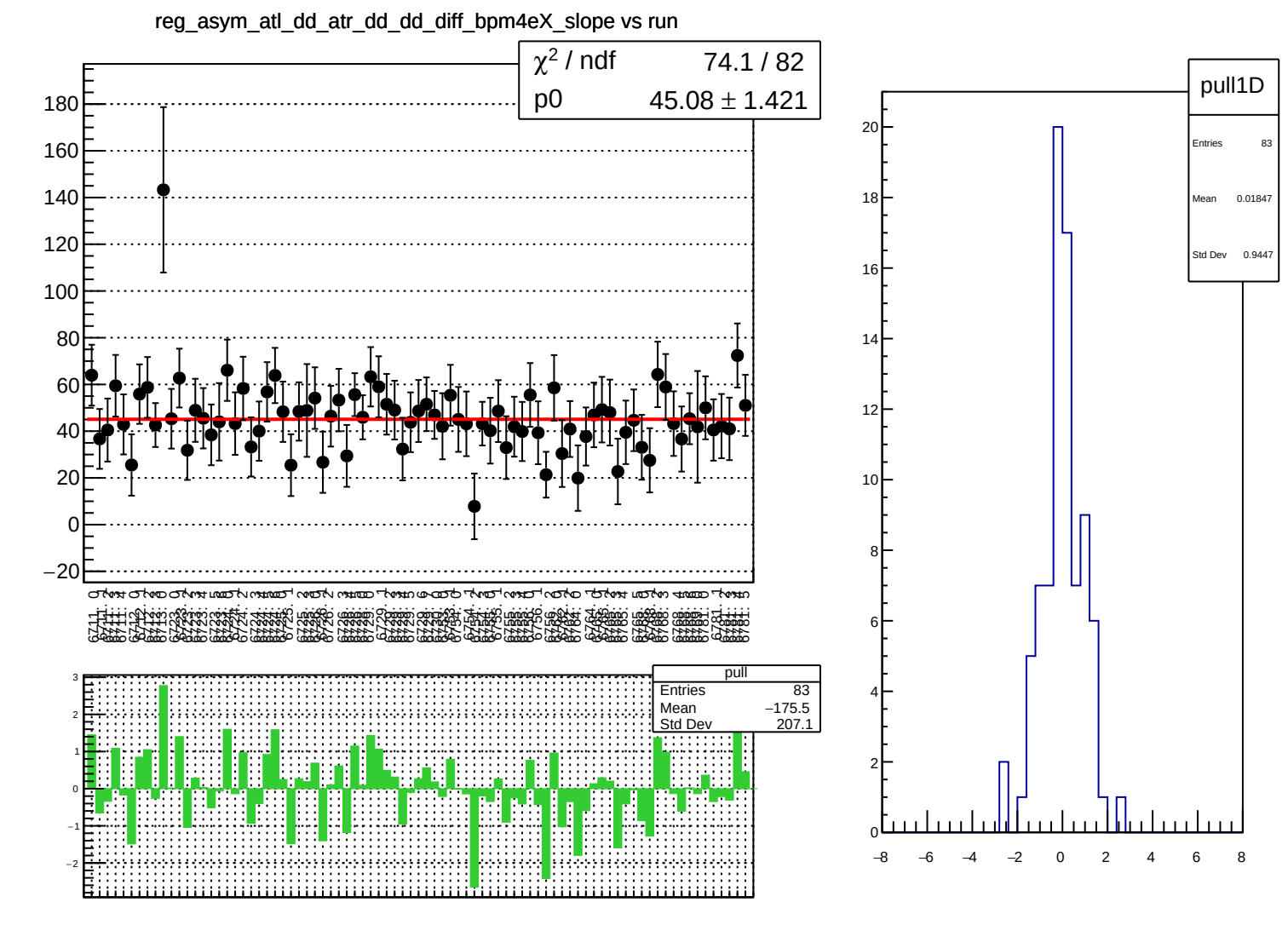

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 80.62 / 82
p0 130.8 ± 0.1826
136
134
132
130
128
126
pull
Entries 83
Mean −325.5
Std Dev 371
1.5
1
0.5
0
−0.5
−1
−1.5

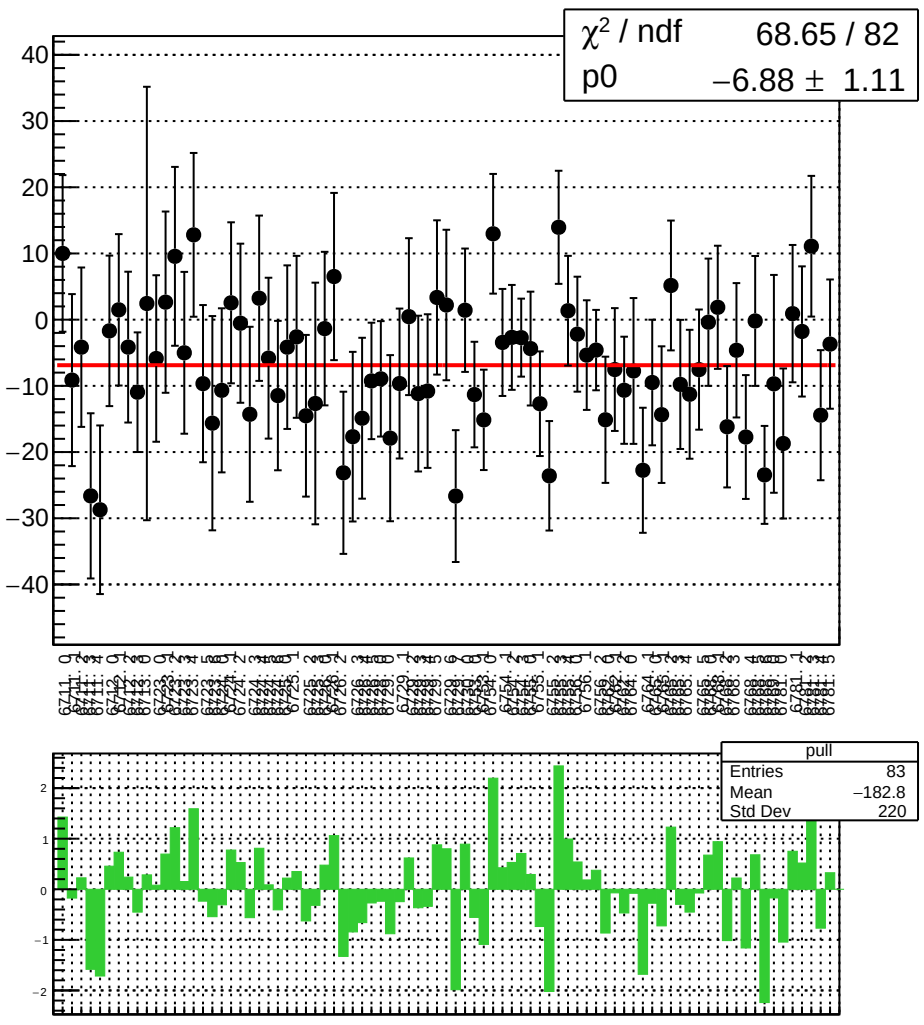

pull1D
Entries 83
Mean 0.04417
Std Dev 0.9846
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

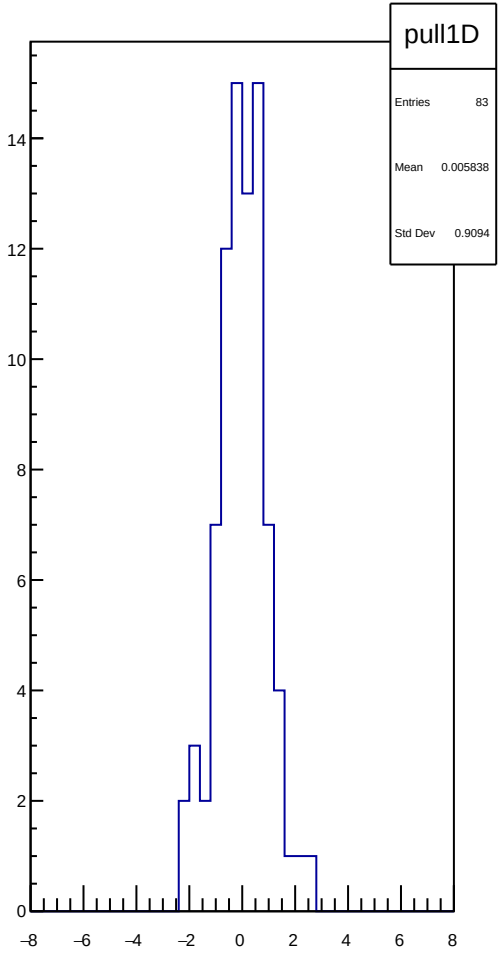

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 73.87 / 82
p0 22.24 ± 1.485
pull
Entries 83
Mean −375.6
Std Dev 410.1
pull1D
Entries 83
Mean −0.01198
Std Dev 0.9433

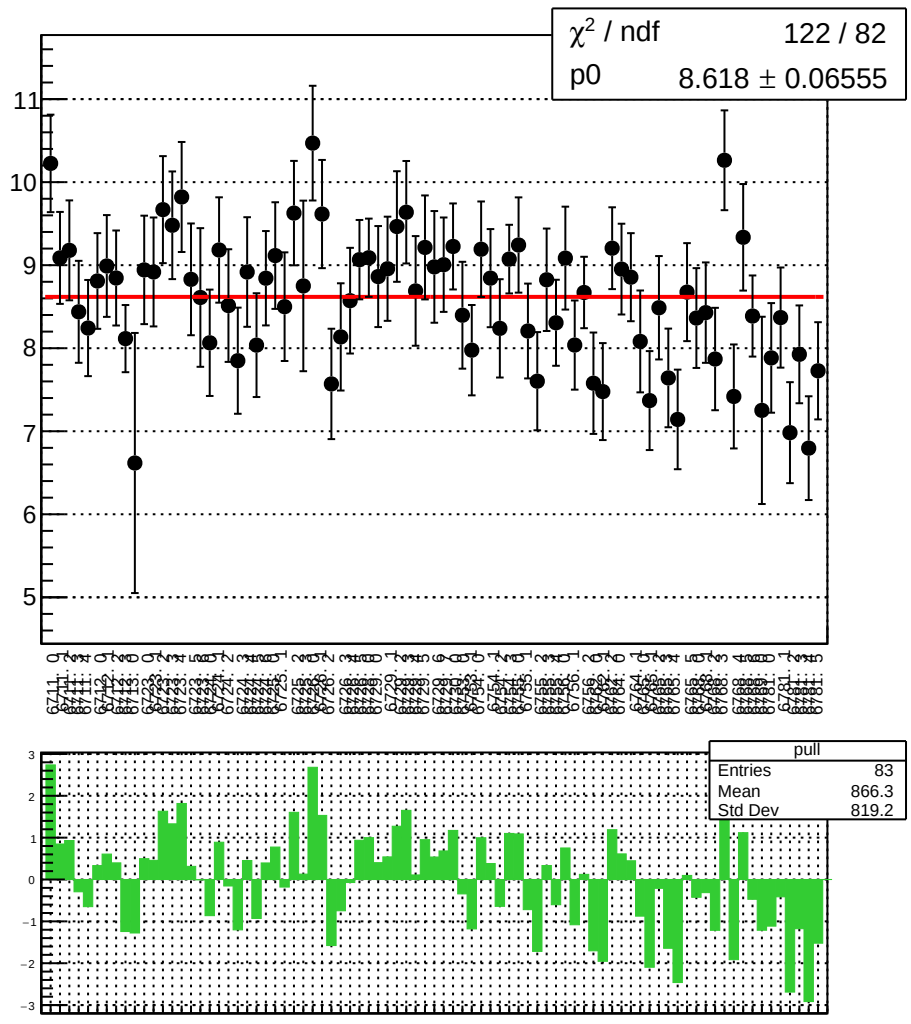

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.84 / 82
p0 1.36 ± 0.8663
pull
Entries 83
Mean 137.4
Std Dev 104

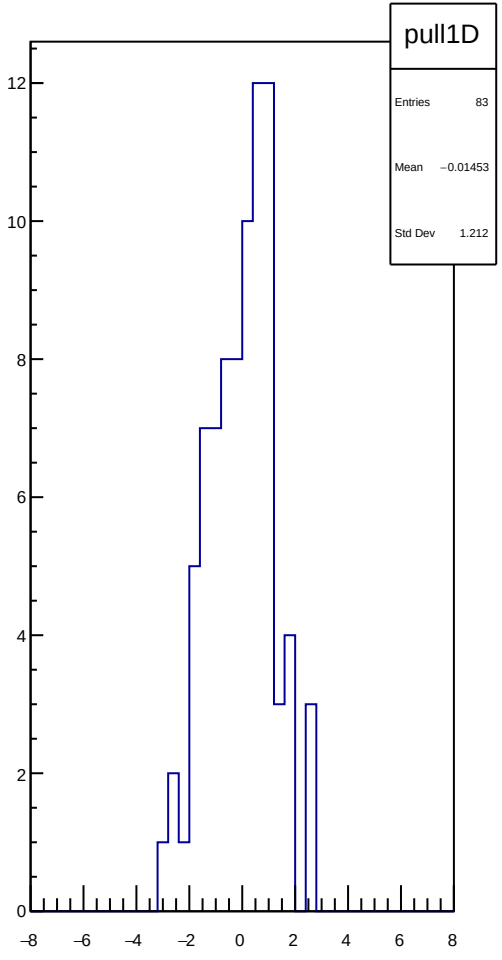

pull1D
Entries 83
Mean 0.007901
Std Dev 0.9173

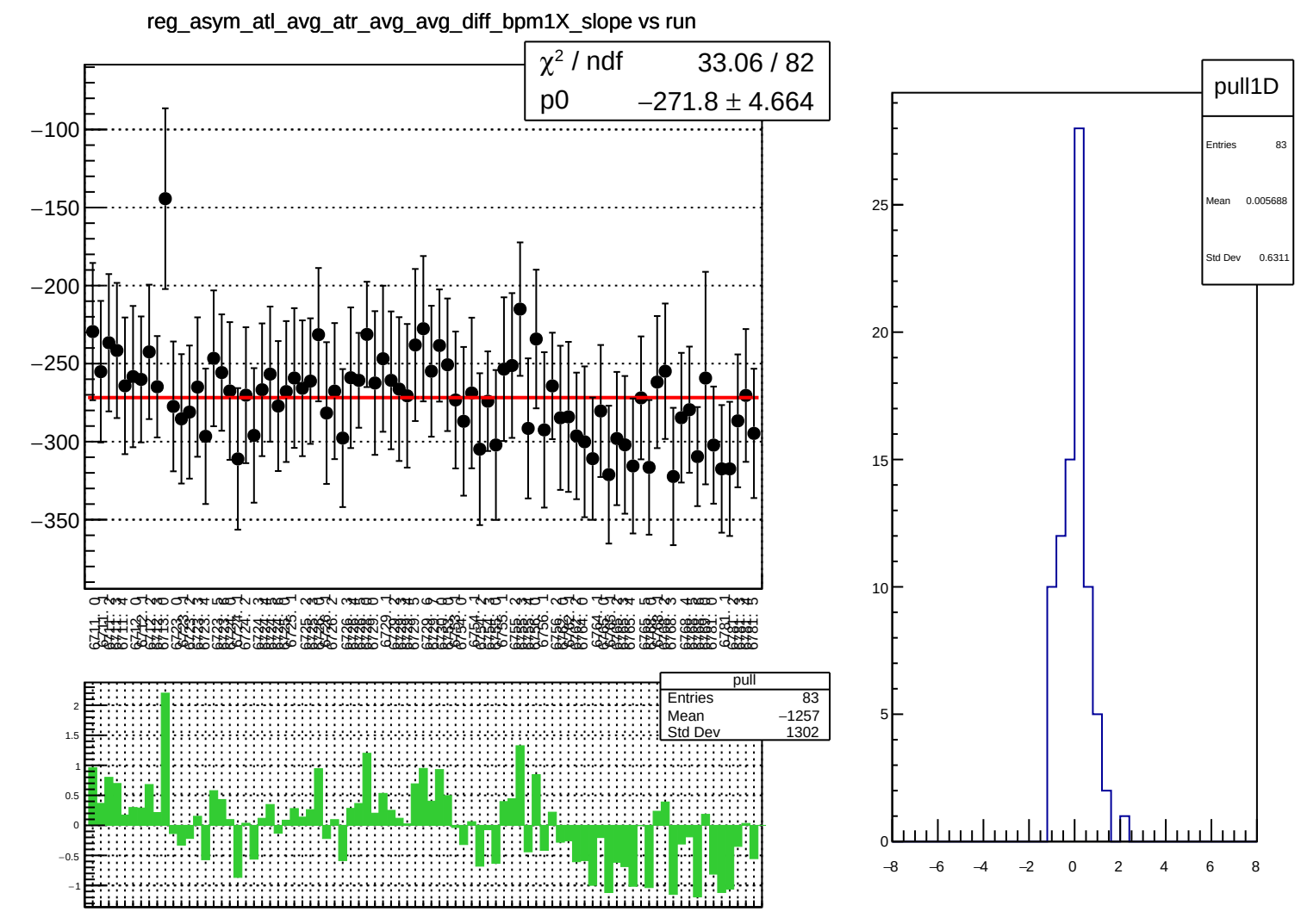

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.1 / 82
p0 45.08 ± 1.421
pull
Entries 83
Mean −175.5
Std Dev 207.1
pull1D
Entries 83
Mean 0.01847
Std Dev 0.9447

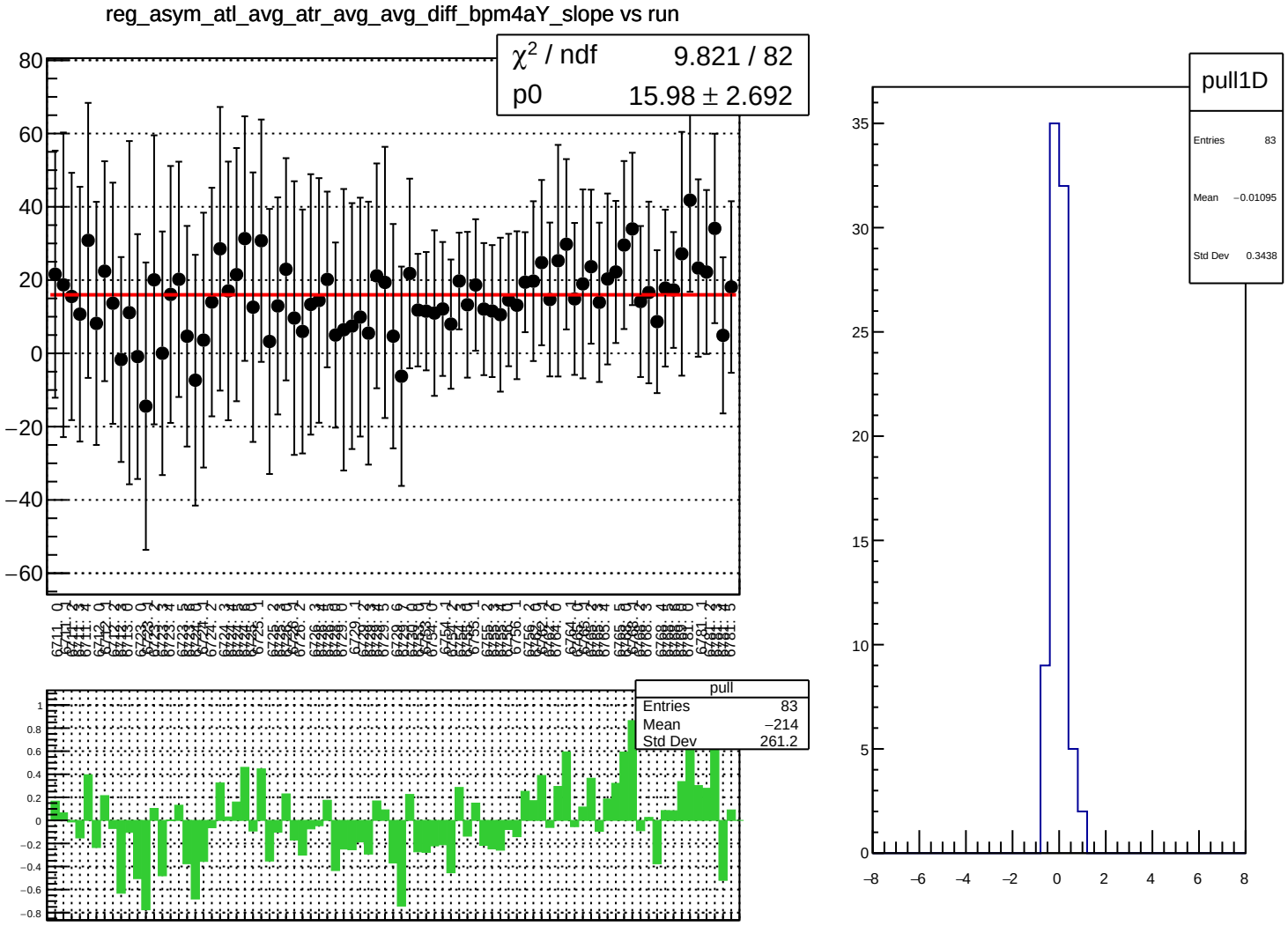

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 68.65 / 82
p0 −6.88 ± 1.11
pull
Entries 83
Mean −182.8
Std Dev 220

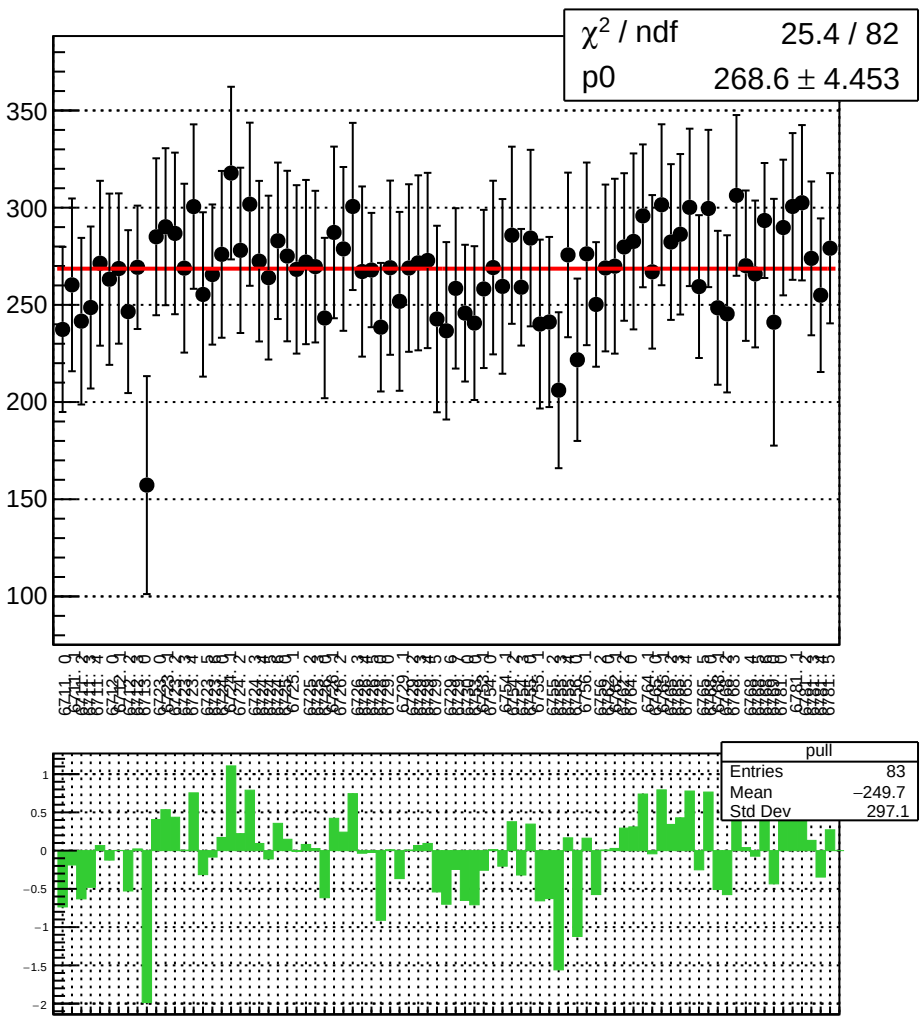

pull1D
Entries 83
Mean 0.005838
Std Dev 0.9094

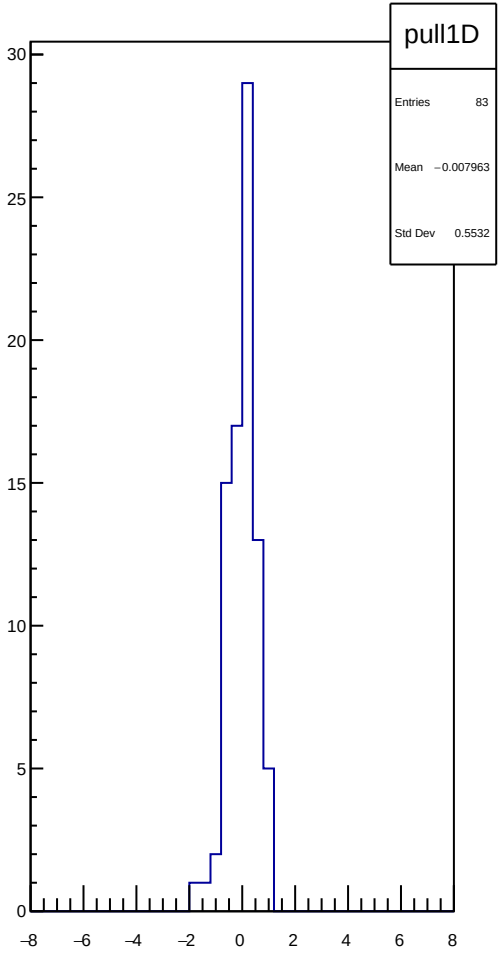

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 122 / 82
p0 8.618 ± 0.06555
pull
Entries 83
Mean 866.3
Std Dev 819.2

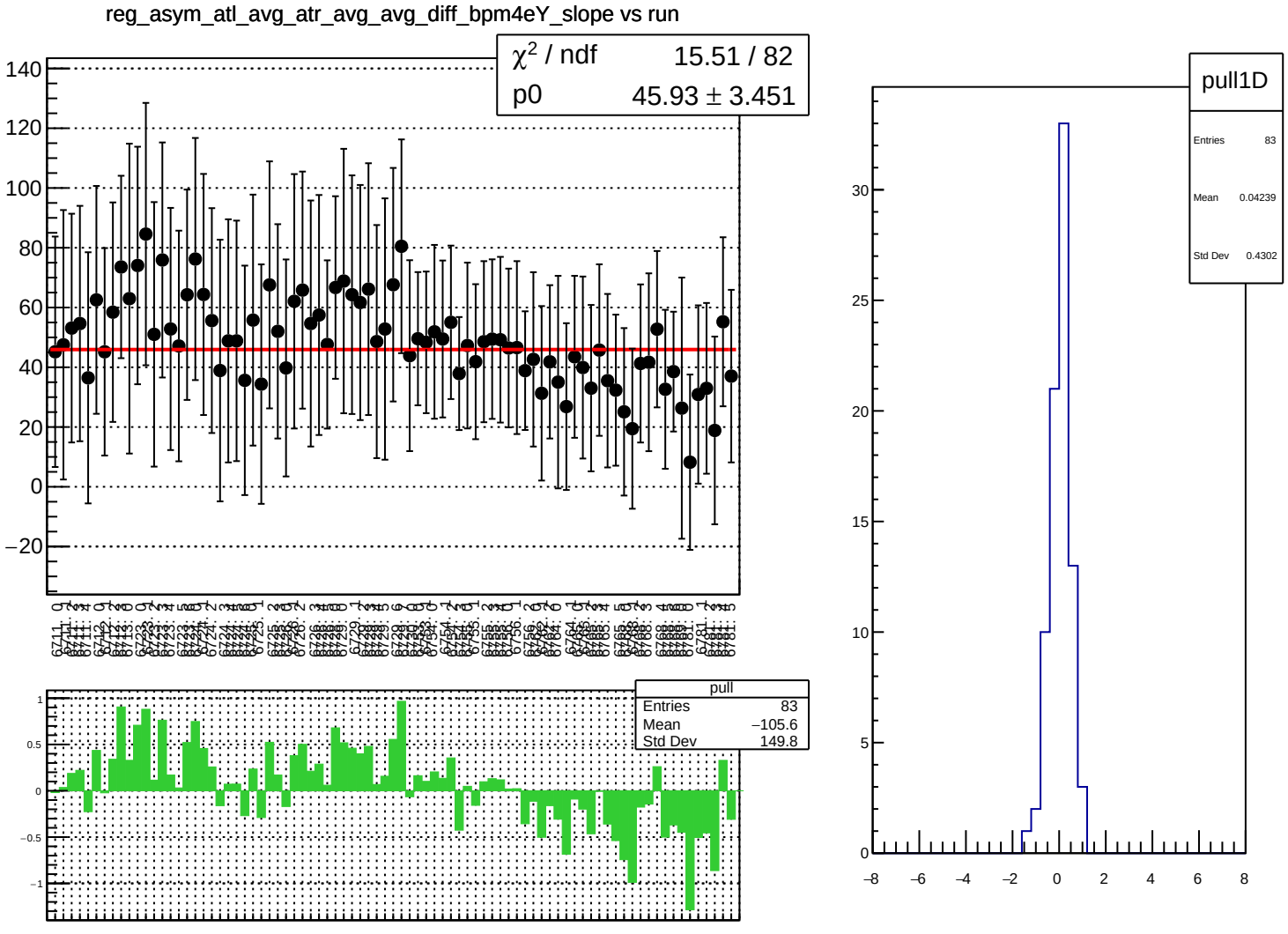

pull1D
Entries 83
Mean −0.01453
Std Dev 1.212

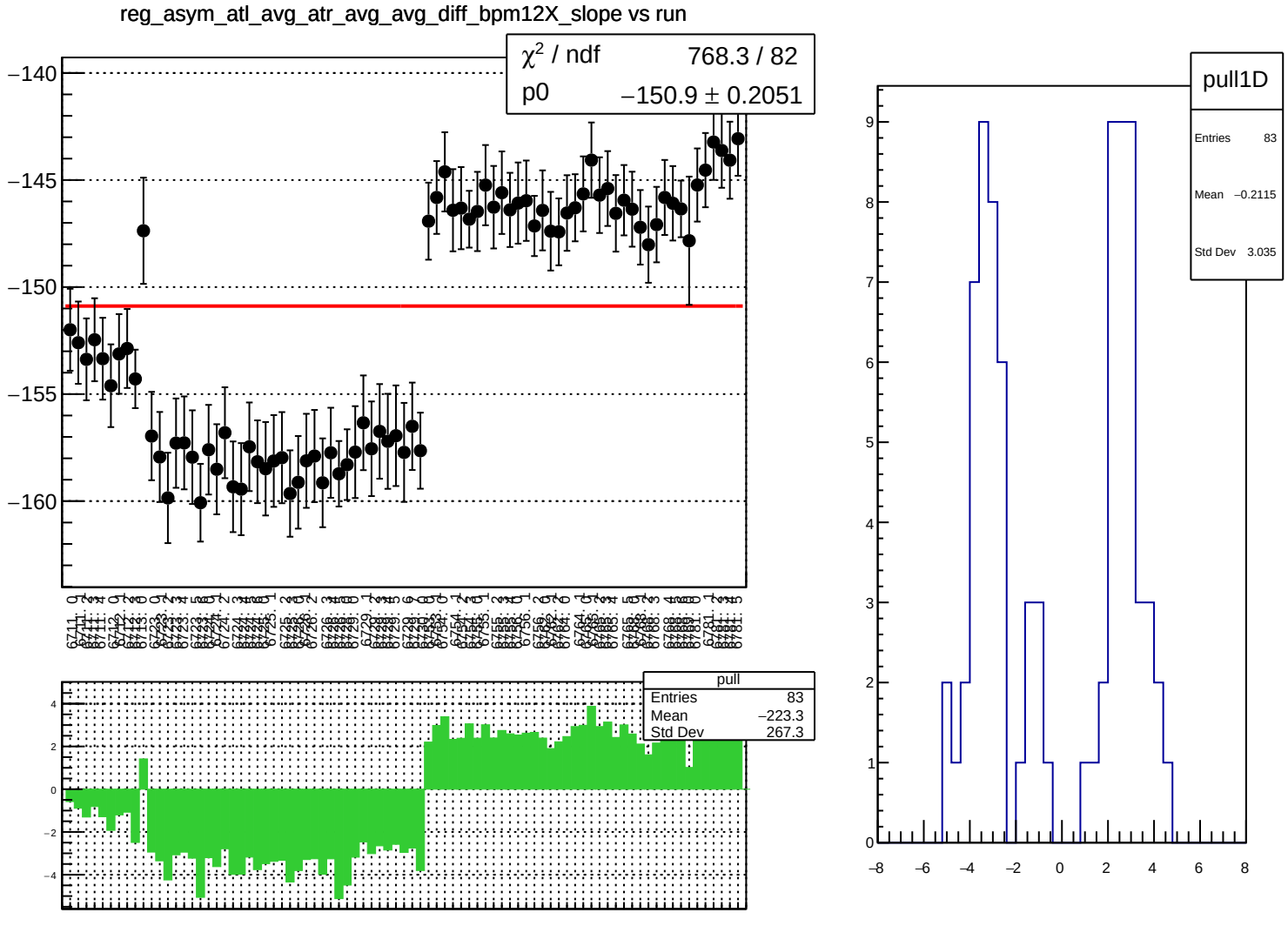

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 33.06 / 82
p0 −271.8 ± 4.664
−100
−150
−200
−250
−300
−350
pull
Entries 83
Mean −1257
Std Dev 1302
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 83
Mean 0.005688
Std Dev 0.6311
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

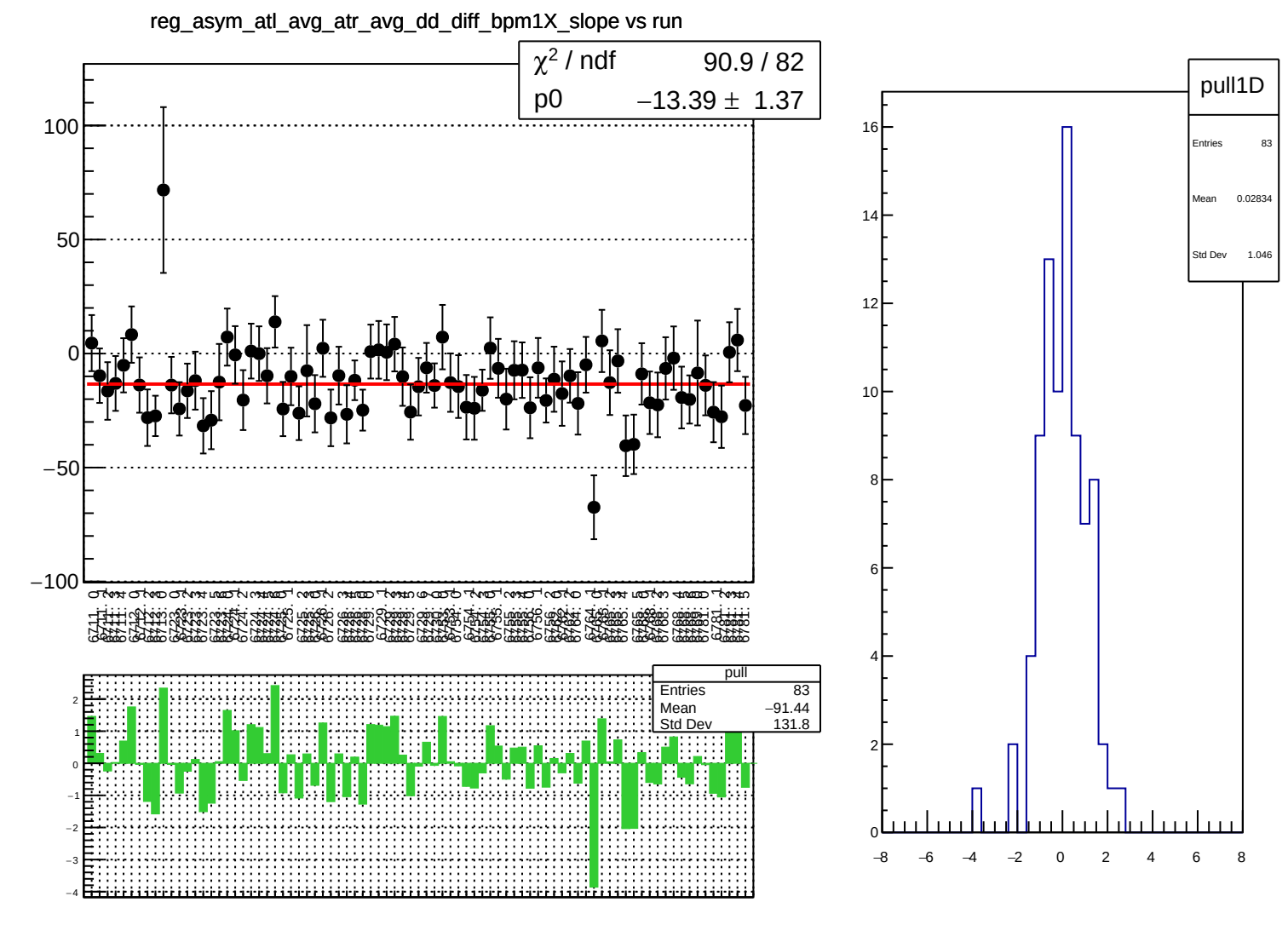

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.821 / 82
p0 15.98 ± 2.692
pull
Entries 83
Mean −214
Std Dev 261.2
pull1D
Entries 83
Mean −0.01095
Std Dev 0.3438

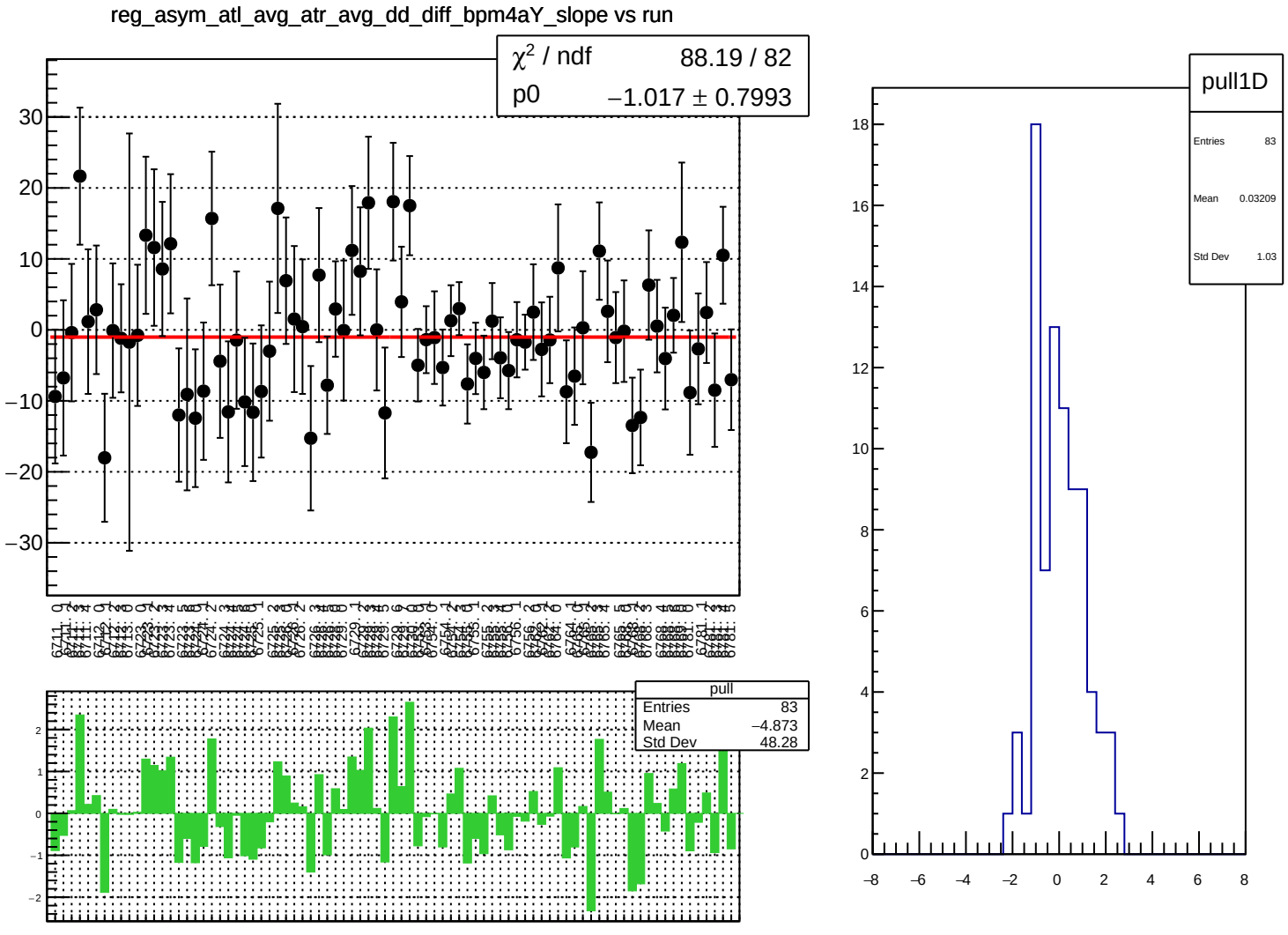

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.4 / 82
p0 268.6 ± 4.453
pull
Entries 83
Mean −249.7
Std Dev 297.1

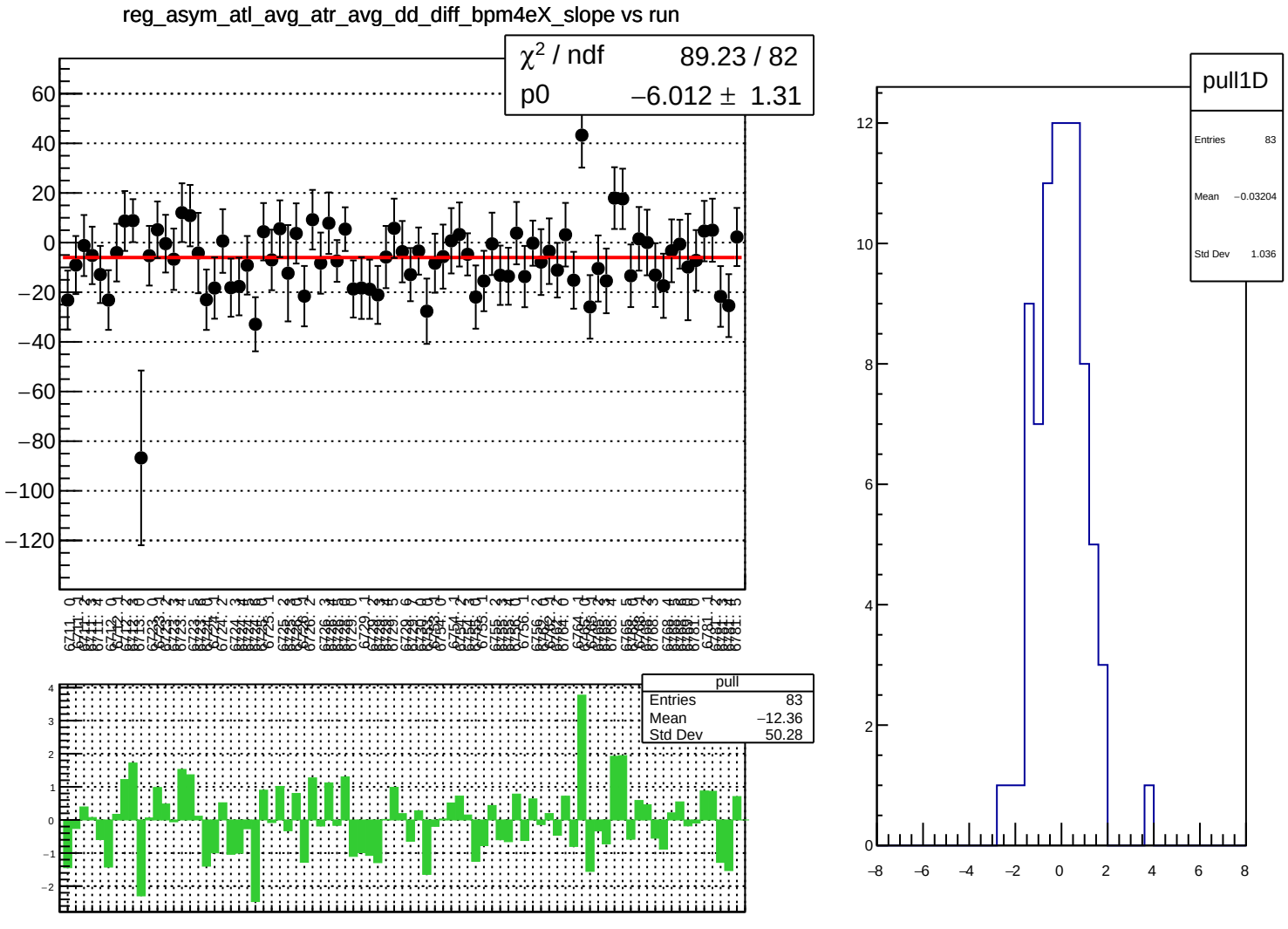

pull1D
Entries 83
Mean −0.007963
Std Dev 0.5532

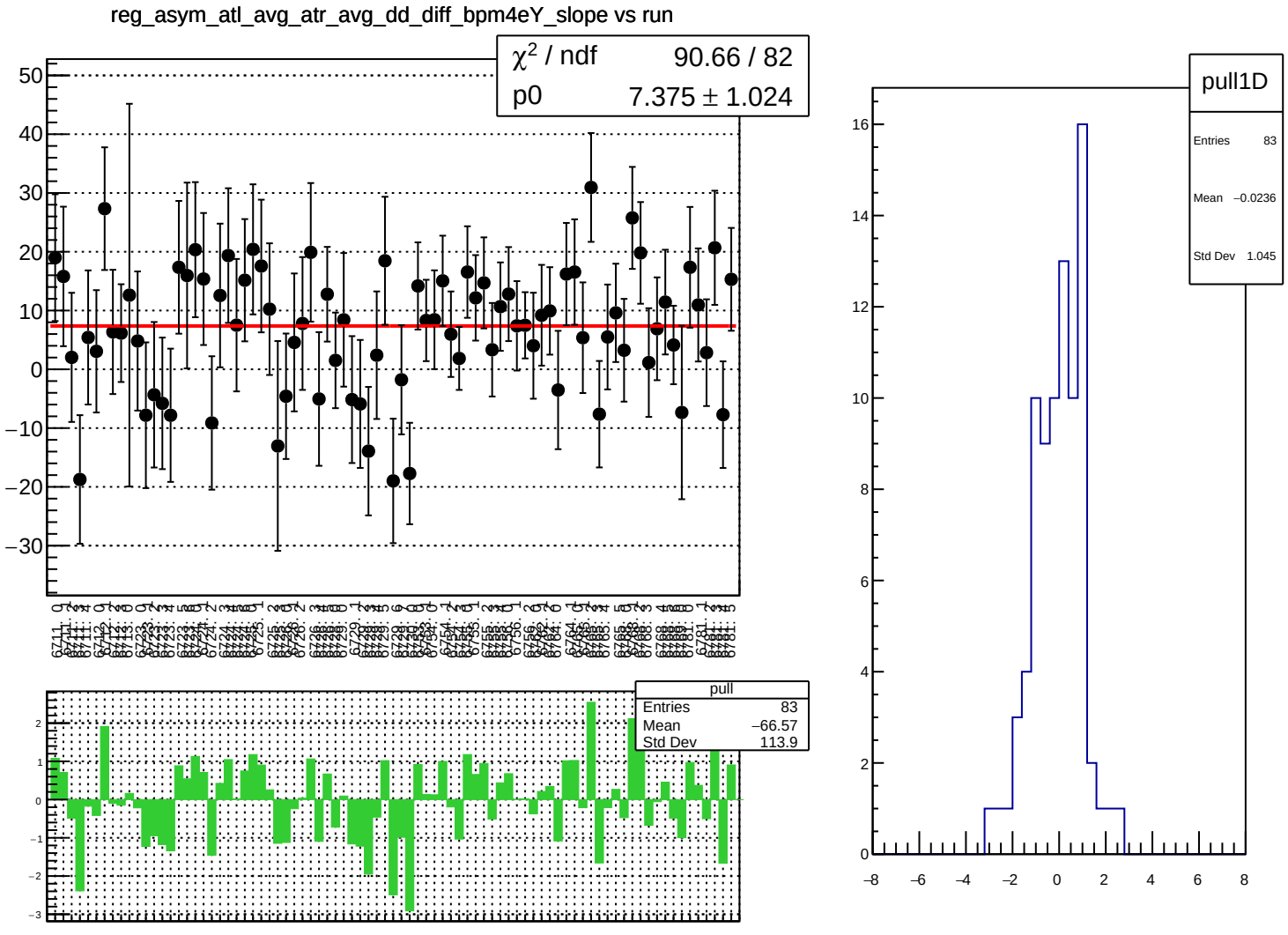

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.51 / 82
p0 45.93 ± 3.451
pull
Entries 83
Mean −105.6
Std Dev 149.8
pull1D
Entries 83
Mean 0.04239
Std Dev 0.4302

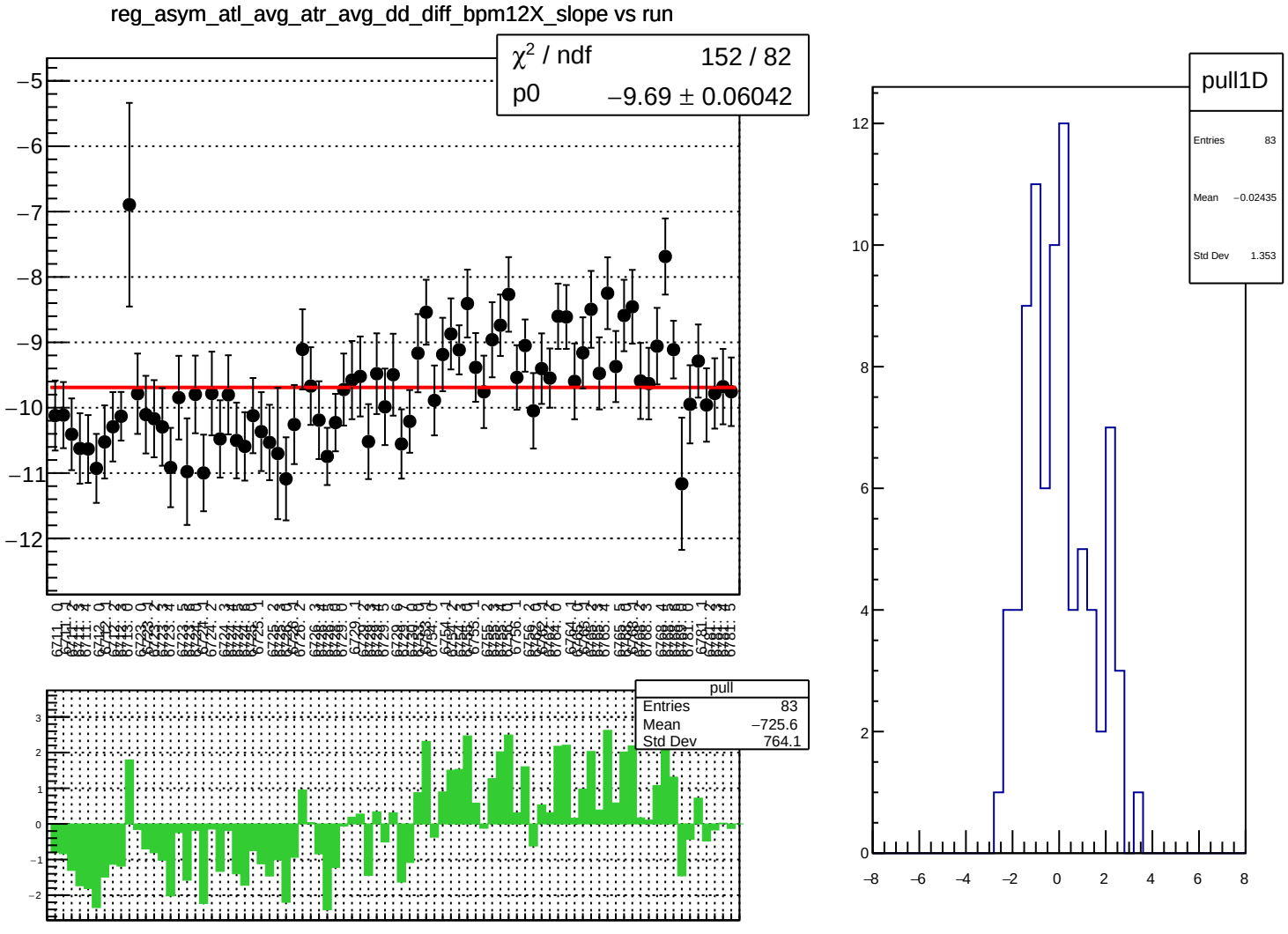

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 768.3 / 82
p0 −150.9 ± 0.2051
−140
−145
−150
−155
−160
pull
Entries 83
Mean −223.3
Std Dev 267.3
4
2
0
−2
−4
pull1D
Entries 83
Mean −0.2115
Std Dev 3.035
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

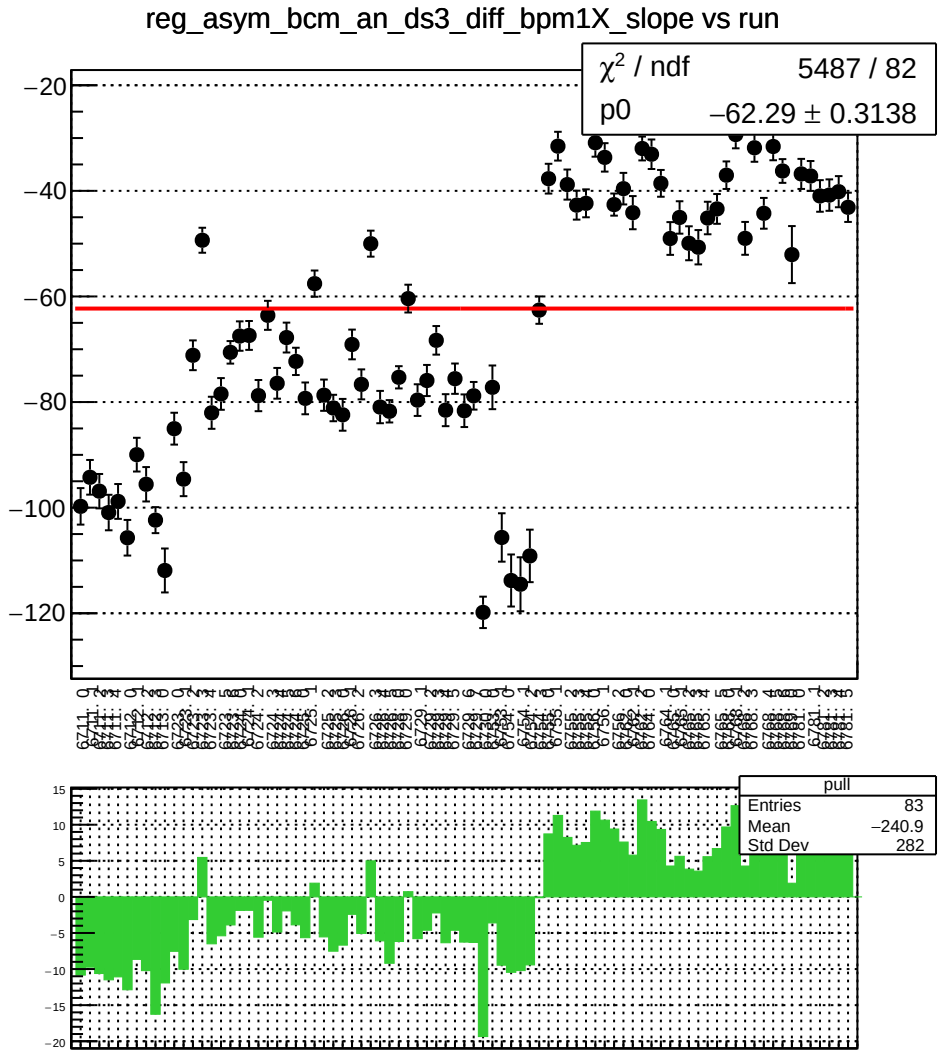

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 90.9 / 82
p0 −13.39 ± 1.37
pull
Entries 83
Mean −91.44
Std Dev 131.8
pull1D
Entries 83
Mean 0.02834
Std Dev 1.046

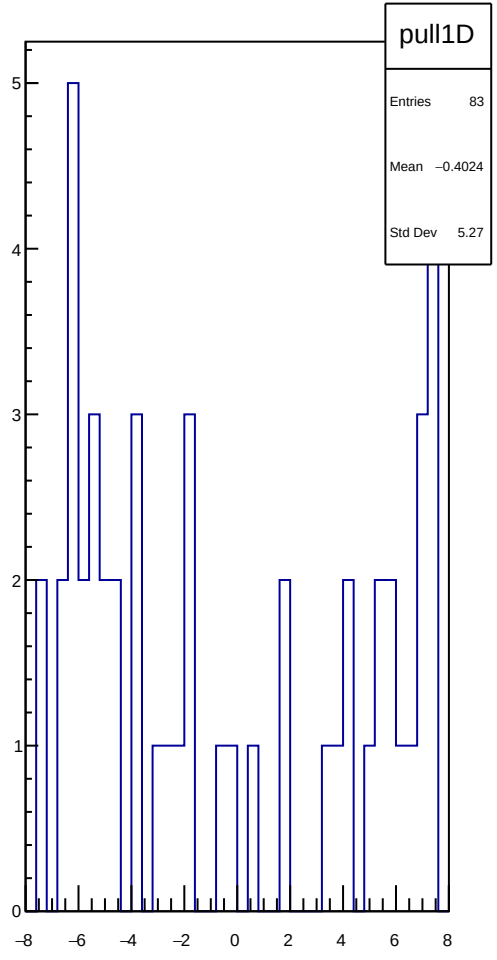

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 88.19 / 82
p0 −1.017 ± 0.7993
pull
Entries 83
Mean −4.873
Std Dev 48.28
pull1D
Entries 83
Mean 0.03209
Std Dev 1.03

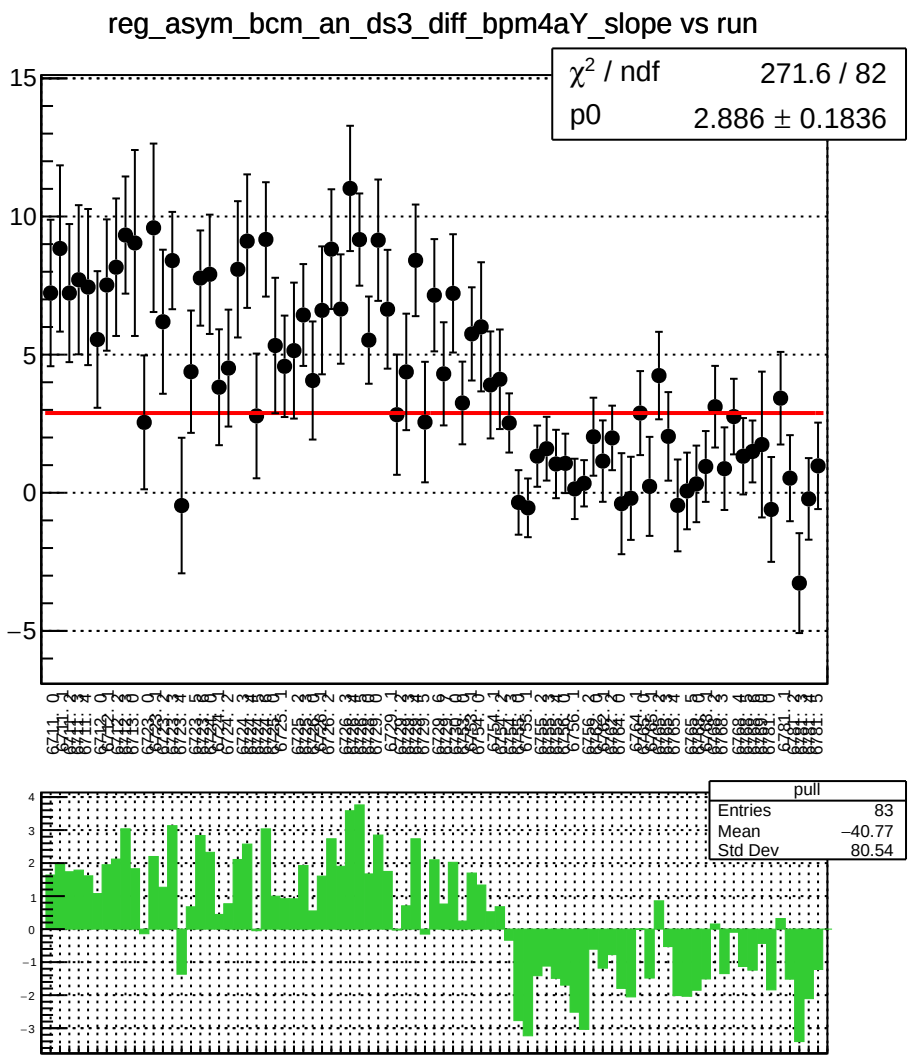

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 89.23 / 82
p0 −6.012 ± 1.31
pull
Entries 83
Mean −12.36
Std Dev 50.28
pull1D
Entries 83
Mean −0.03204
Std Dev 1.036

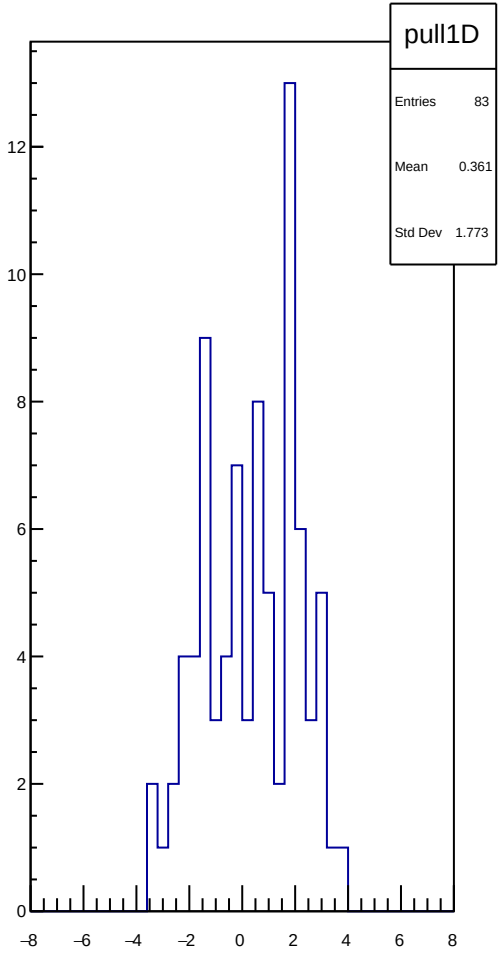

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 90.66 / 82
p0 7.375 ± 1.024
pull
Entries 83
Mean −66.57
Std Dev 113.9
pull1D
Entries 83
Mean −0.0236
Std Dev 1.045

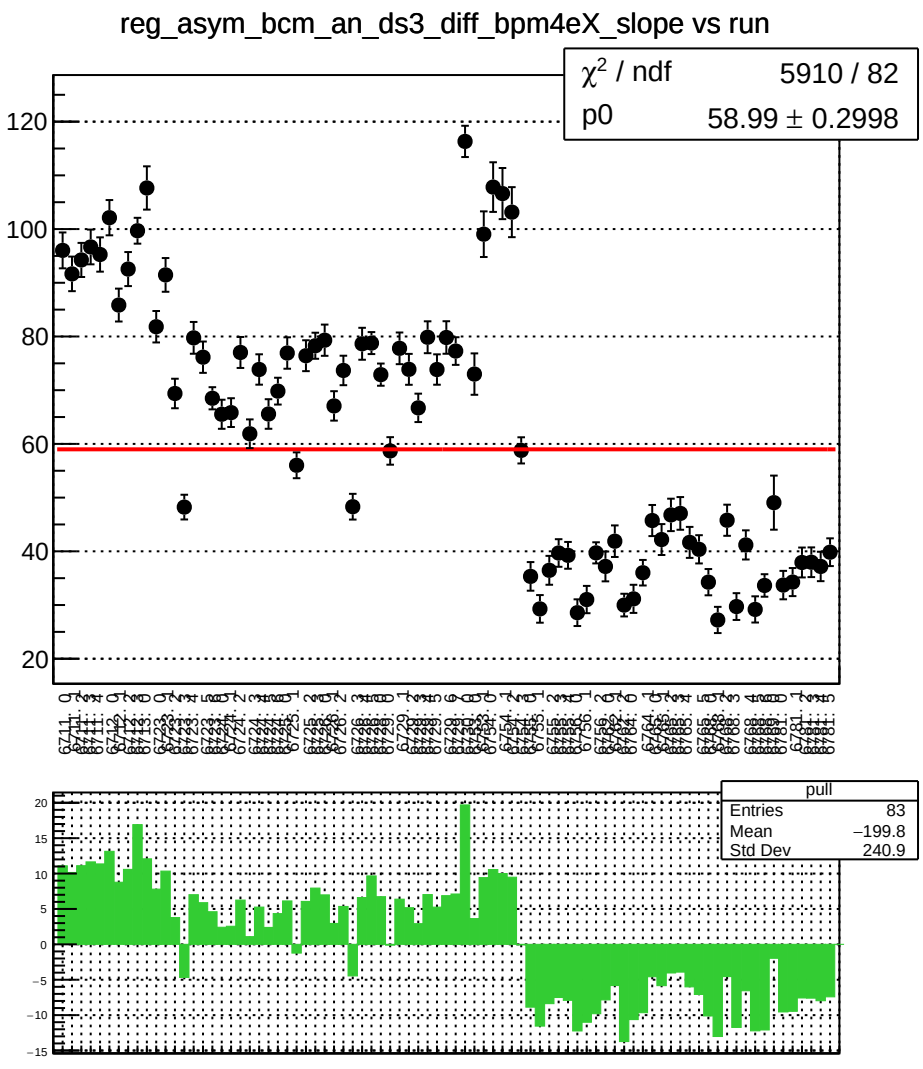

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 152 / 82
p0 −9.69 ± 0.06042
pull
Entries 83
Mean −725.6
Std Dev 764.1
pull1D
Entries 83
Mean −0.02435
Std Dev 1.353

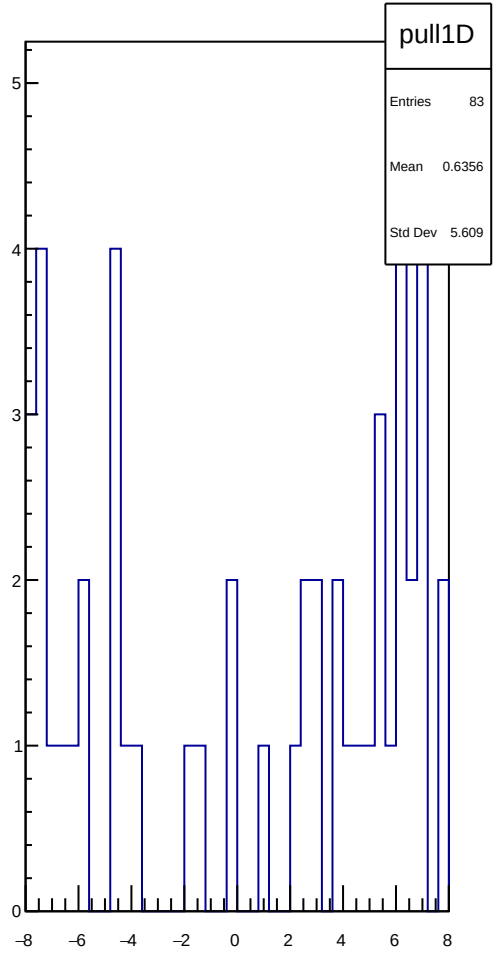

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 5487 / 82
p0 −62.29 ± 0.3138
pull
Entries 83
Mean −240.9
Std Dev 282

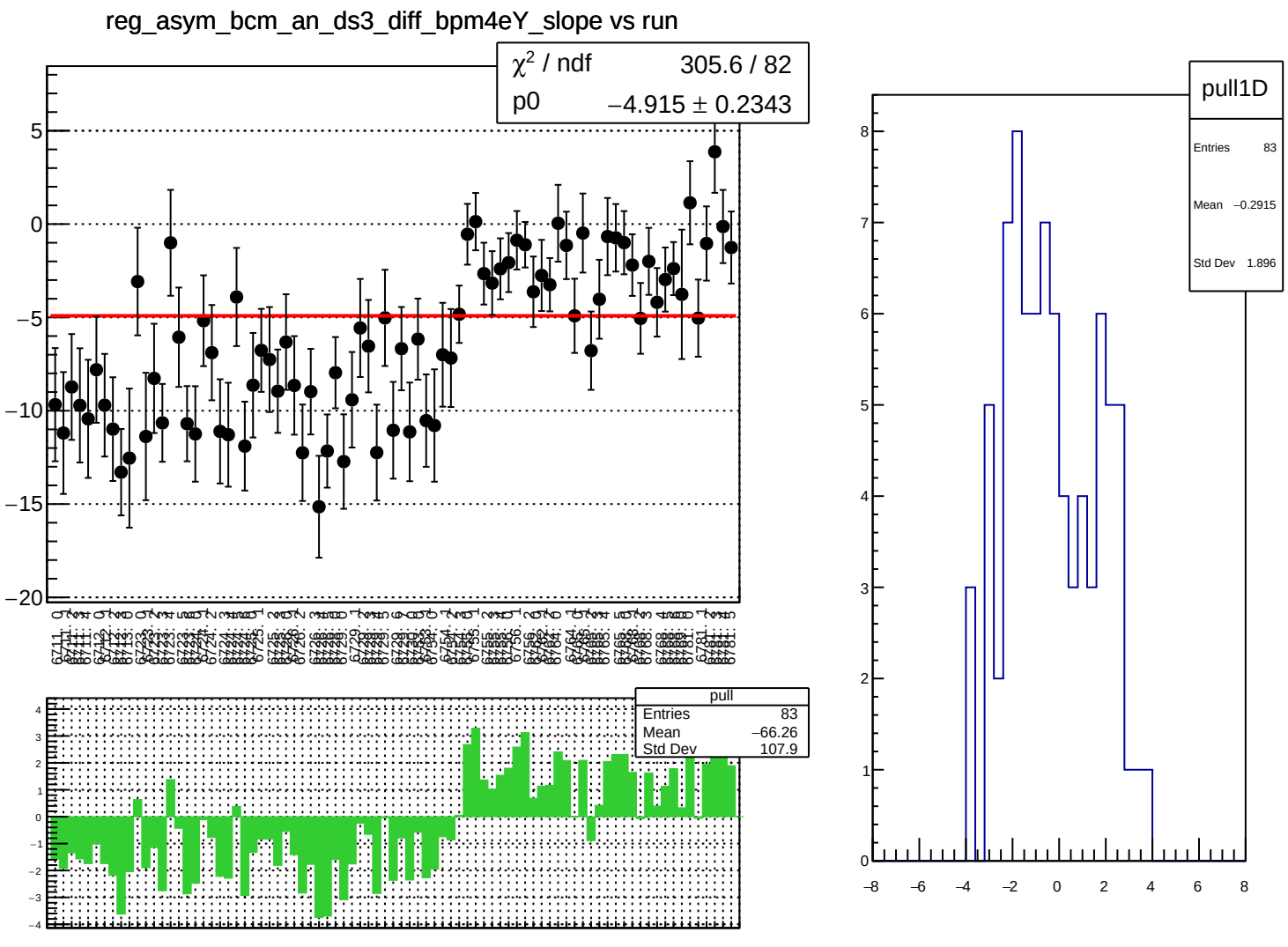

pull1D
Entries 83
Mean −0.4024
Std Dev 5.27

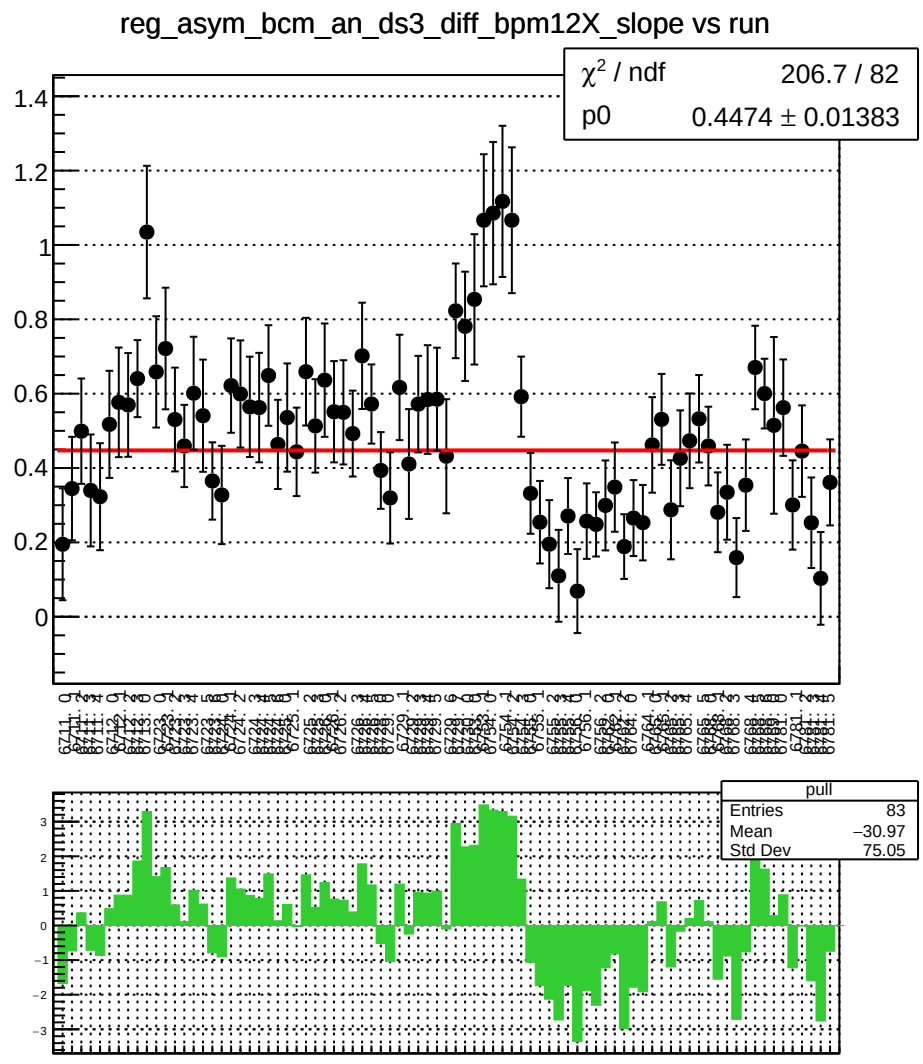

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 271.6 / 82
p0 2.886 ± 0.1836
pull
Entries 83
Mean −40.77
Std Dev 80.54

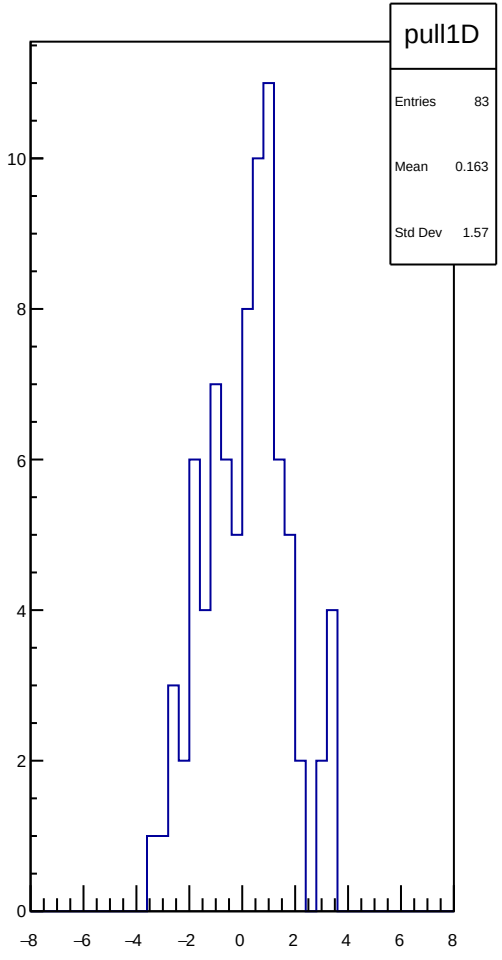

pull1D
Entries 83
Mean 0.361
Std Dev 1.773

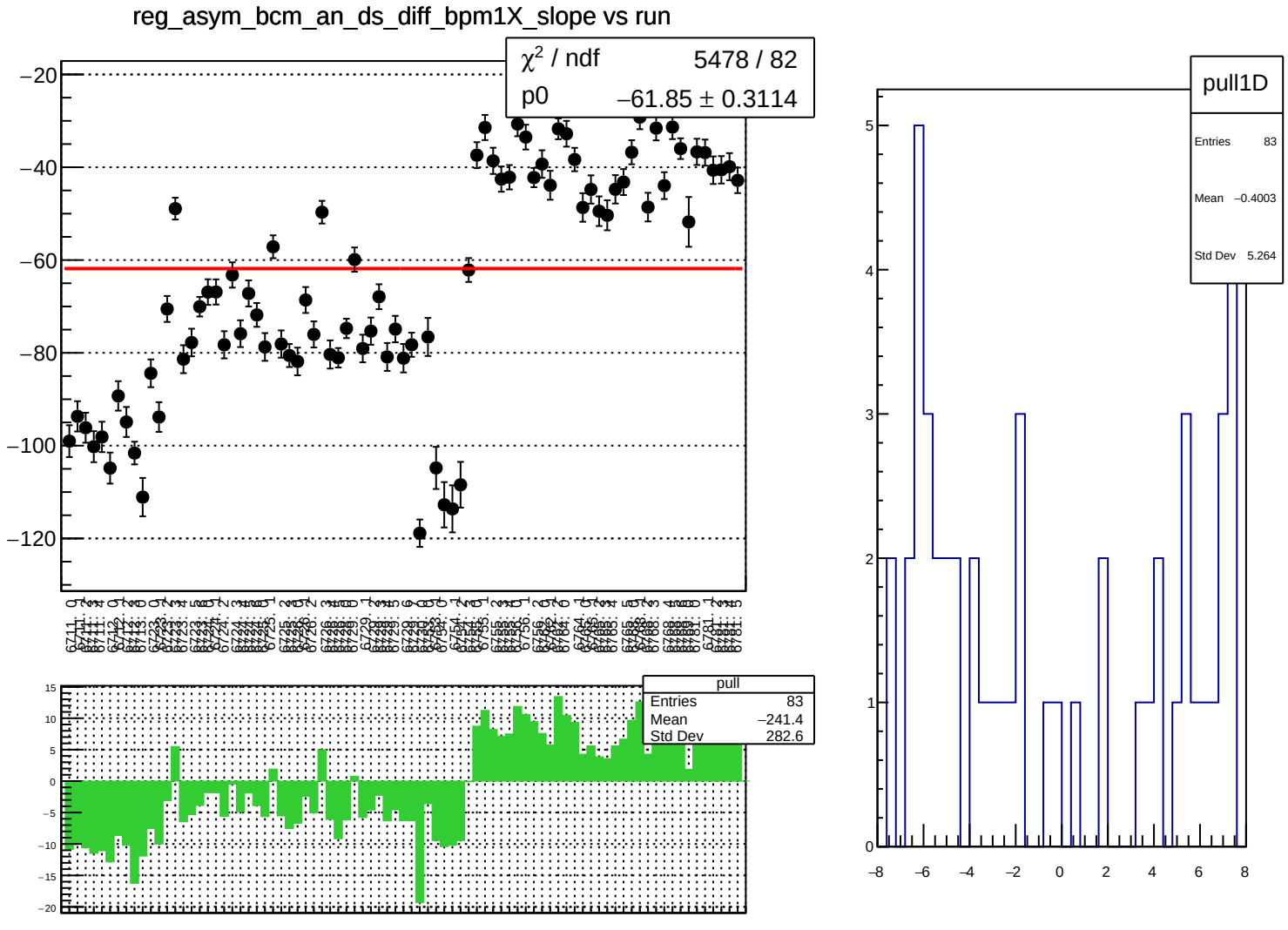

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 5910 / 82
p0 58.99 ± 0.2998
pull
Entries 83
Mean −199.8
Std Dev 240.9

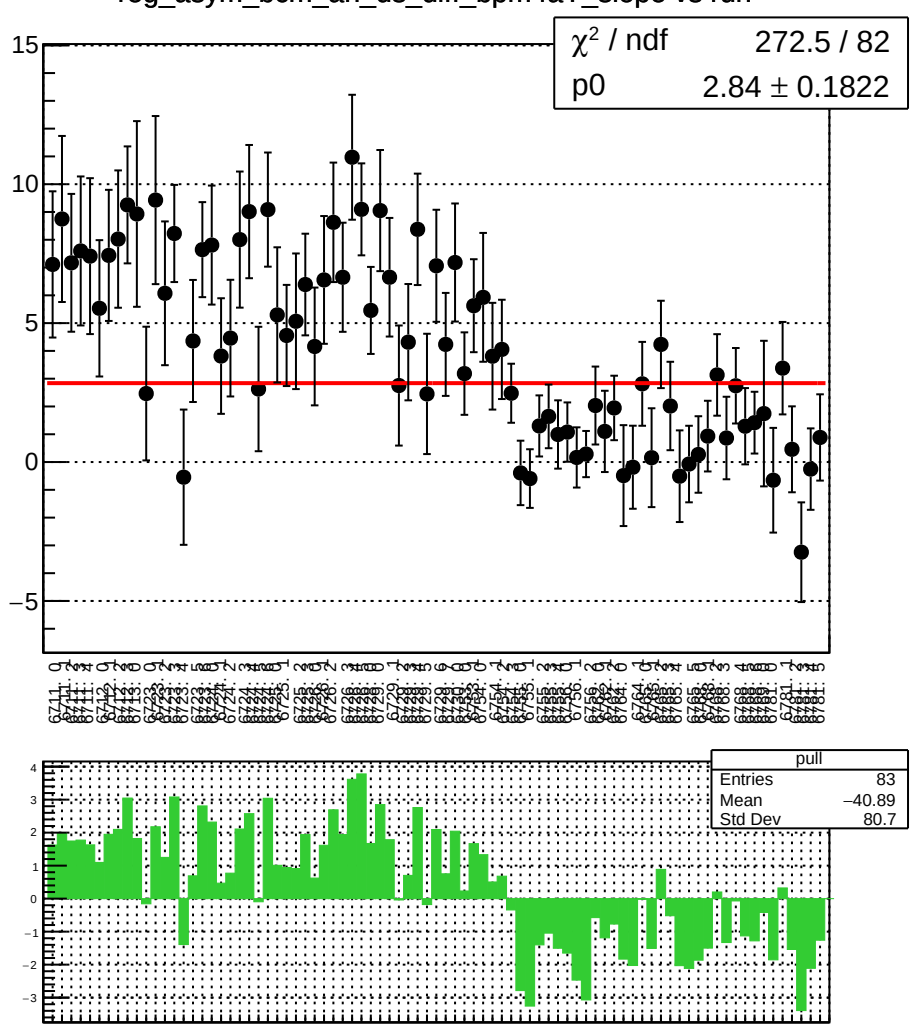

pull1D
Entries 83
Mean 0.6356
Std Dev 5.609

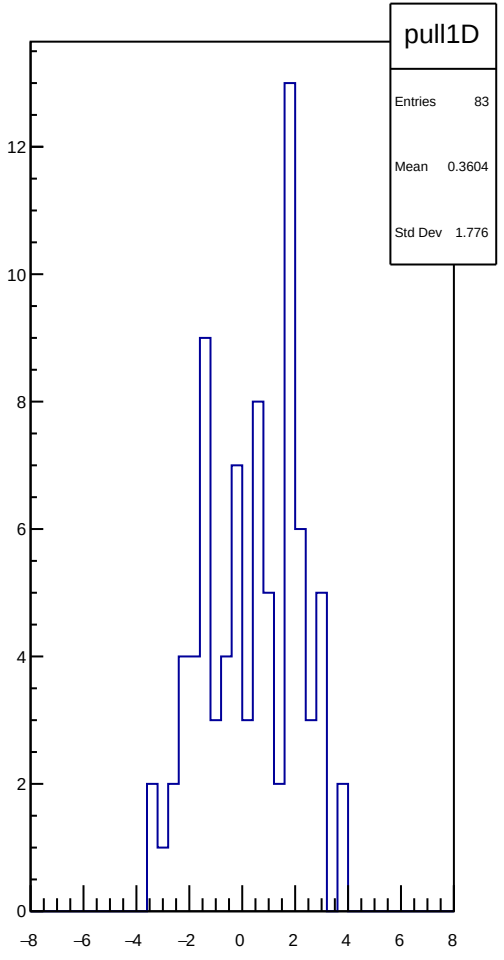

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 305.6 / 82
p0 −4.915 ± 0.2343
pull
Entries 83
Mean −66.26
Std Dev 107.9
pull1D
Entries 83
Mean −0.2915
Std Dev 1.896

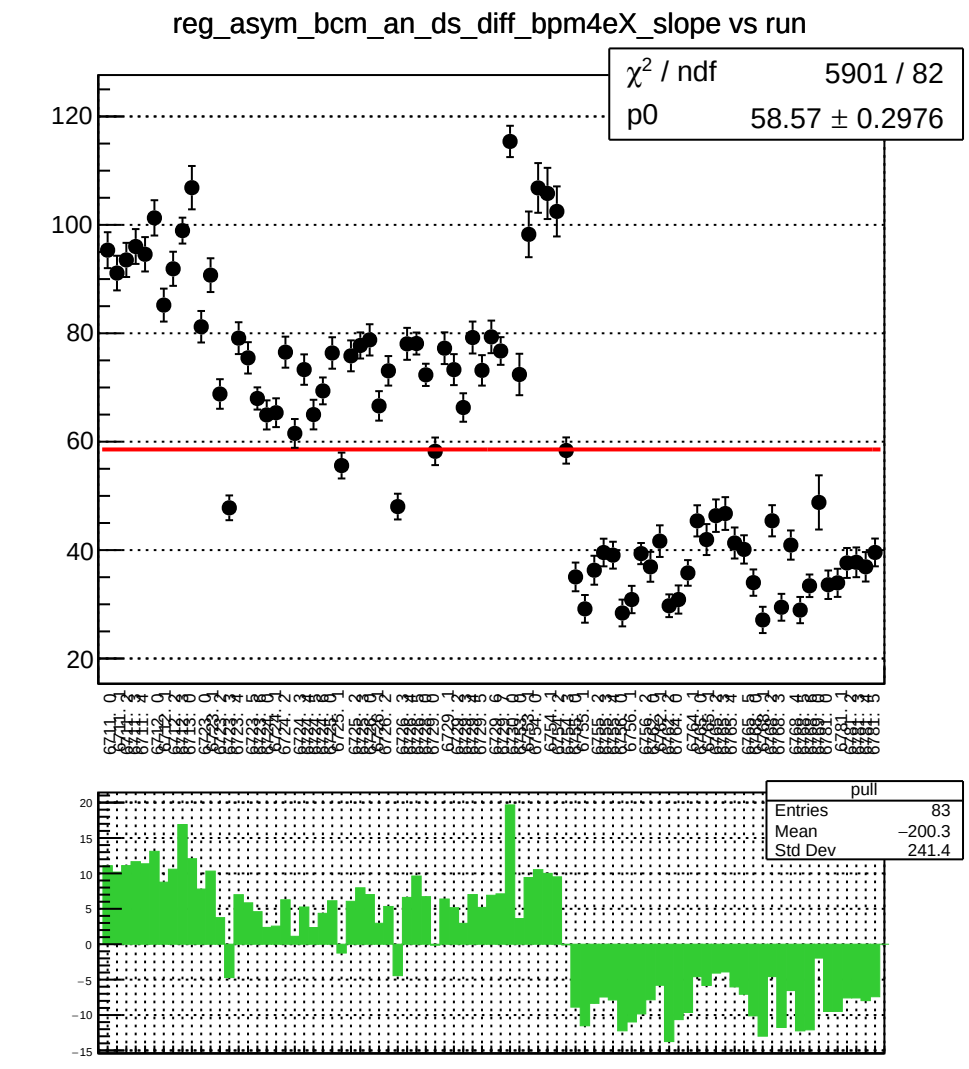

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 206.7 / 82
p0 0.4474 ± 0.01383
pull
Entries 83
Mean −30.97
Std Dev 75.05

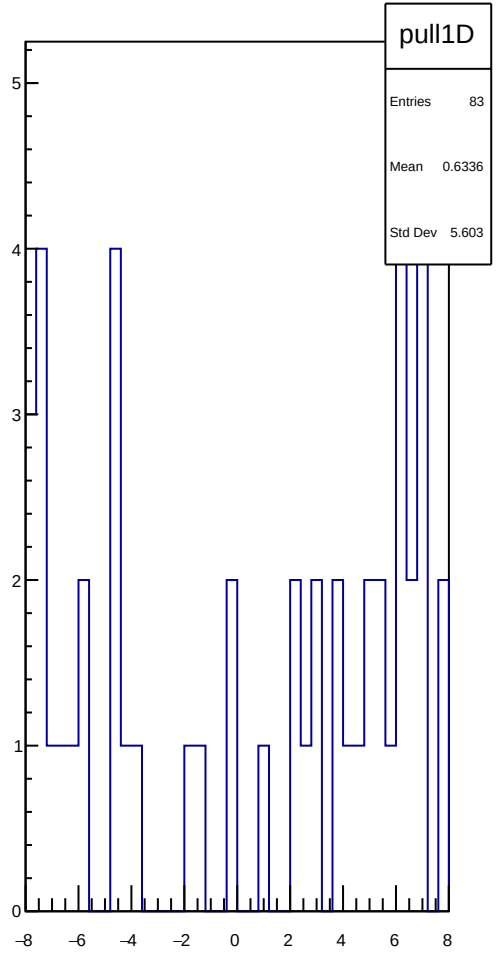

pull1D
Entries 83
Mean 0.163
Std Dev 1.57

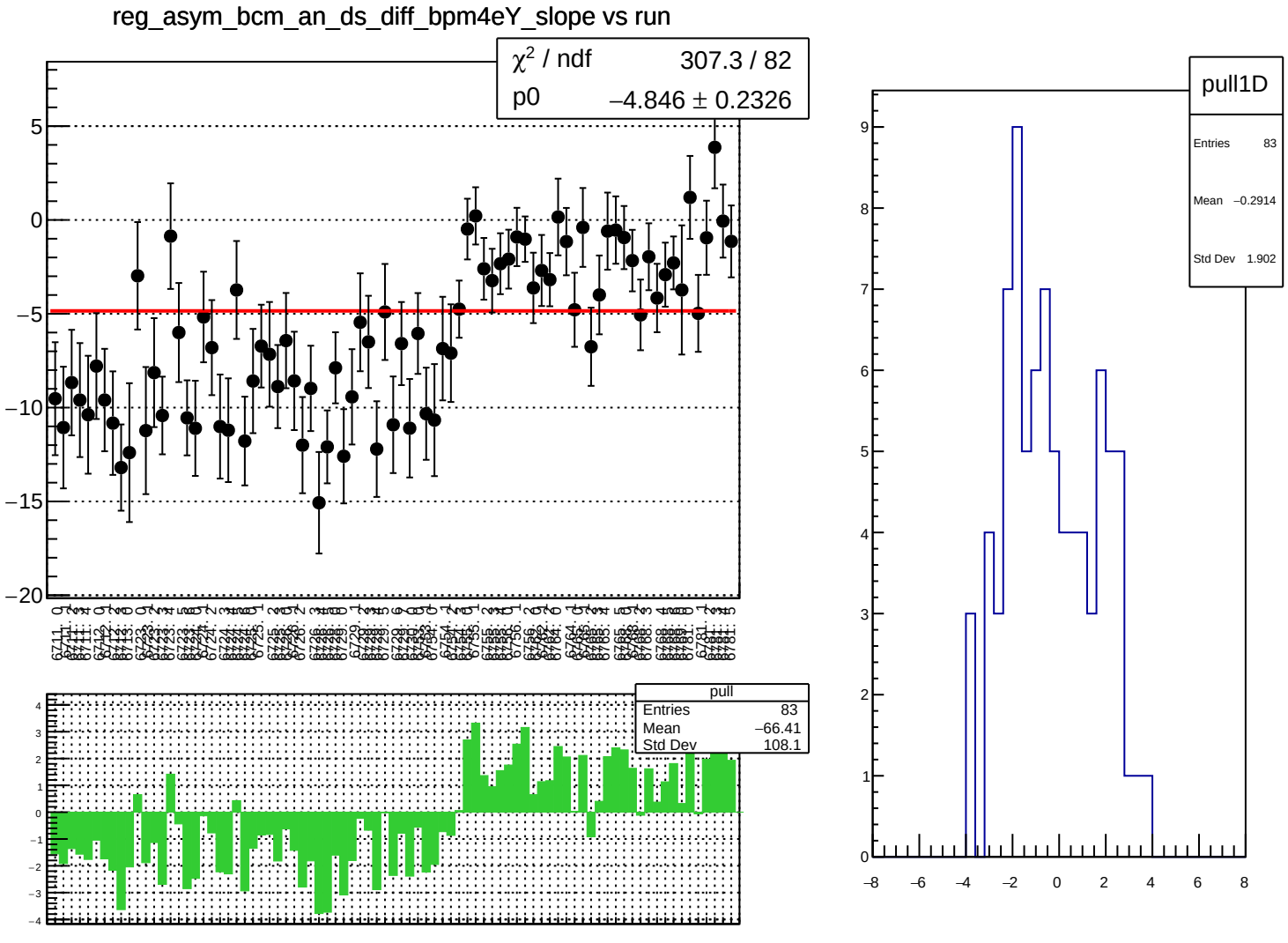

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 5478 / 82
p0 −61.85 ± 0.3114
pull
Entries 83
Mean −241.4
Std Dev 282.6
pull1D
Entries 83
Mean −0.4003
Std Dev 5.264

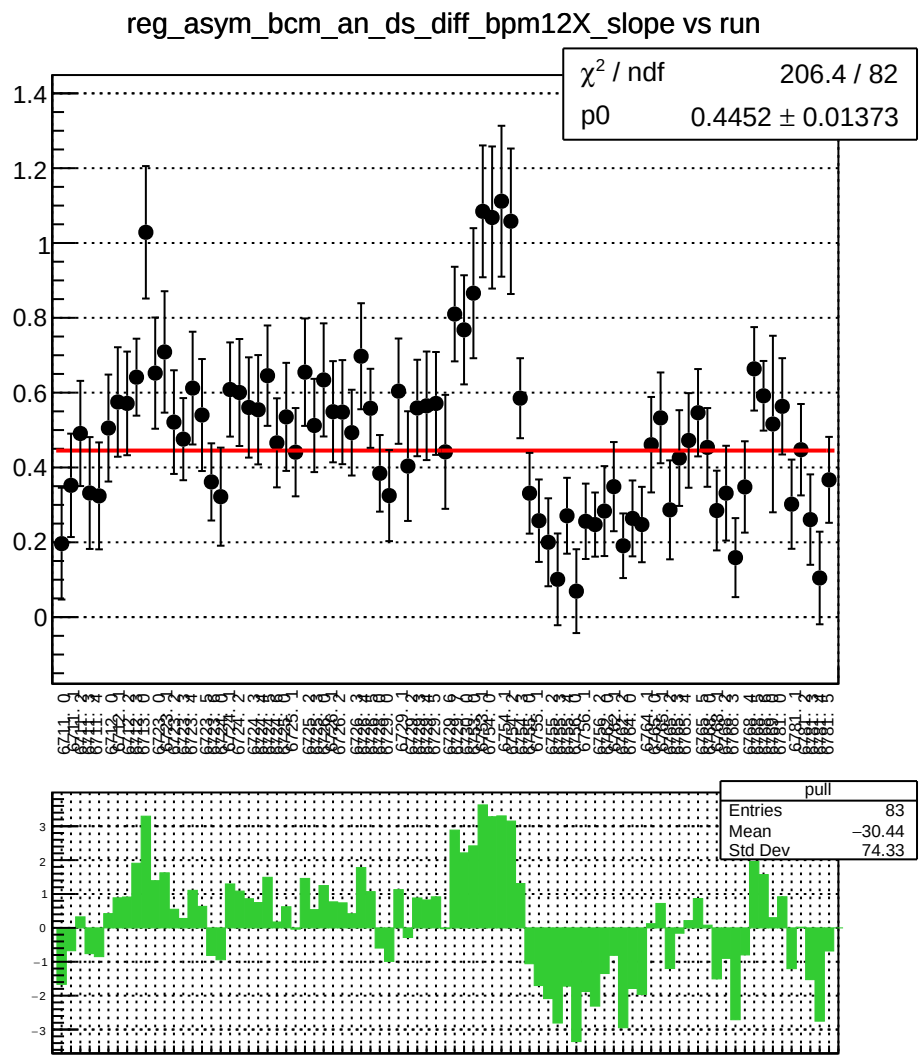

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 272.5 / 82
p0 2.84 ± 0.1822
pull
Entries 83
Mean −40.89
Std Dev 80.7

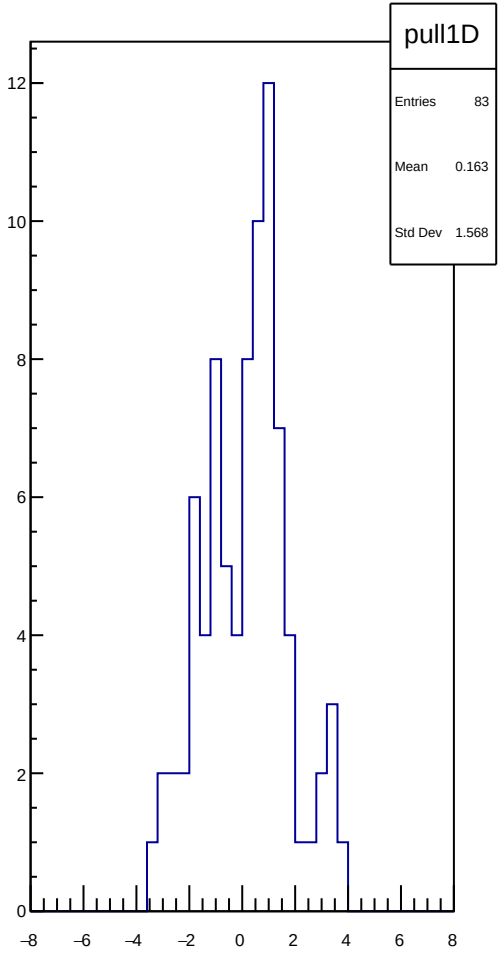

pull1D
Entries 83
Mean 0.3604
Std Dev 1.776

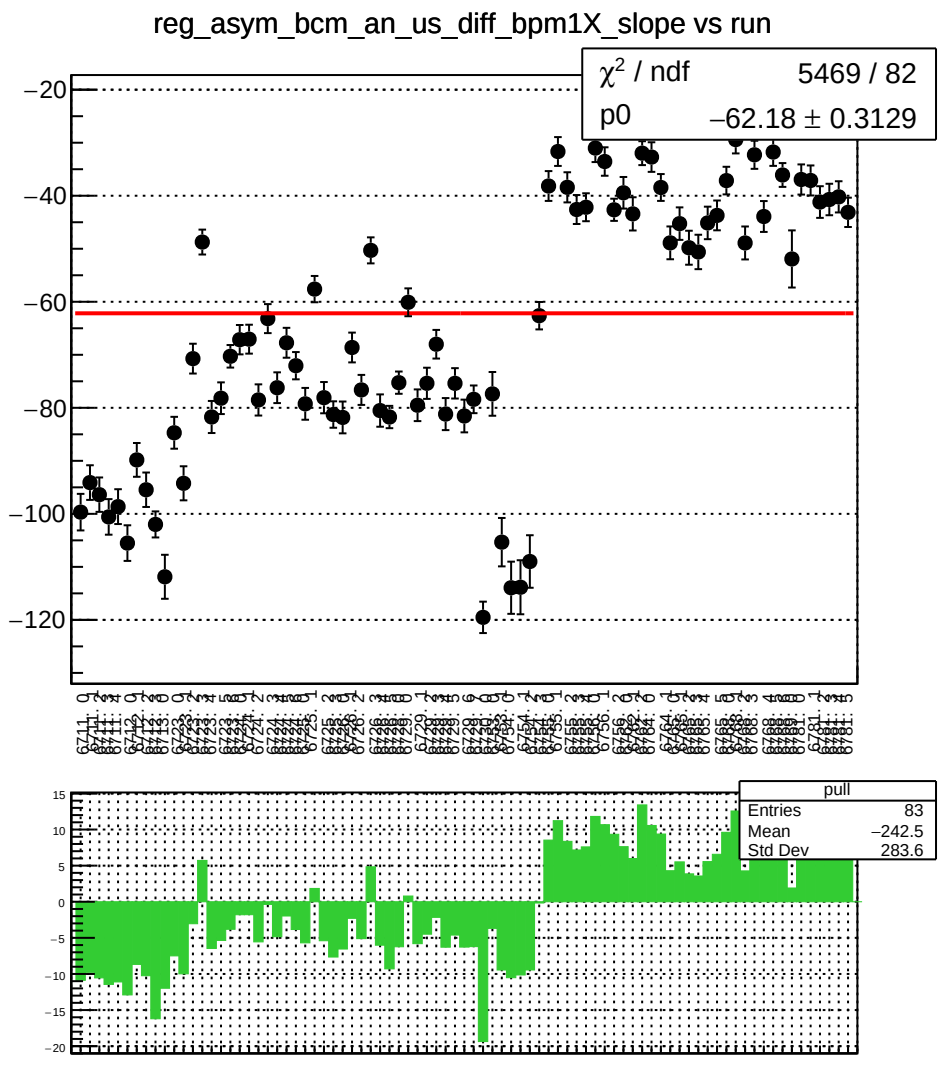

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 5901 / 82
p0 58.57 ± 0.2976
pull
Entries 83
Mean −200.3
Std Dev 241.4

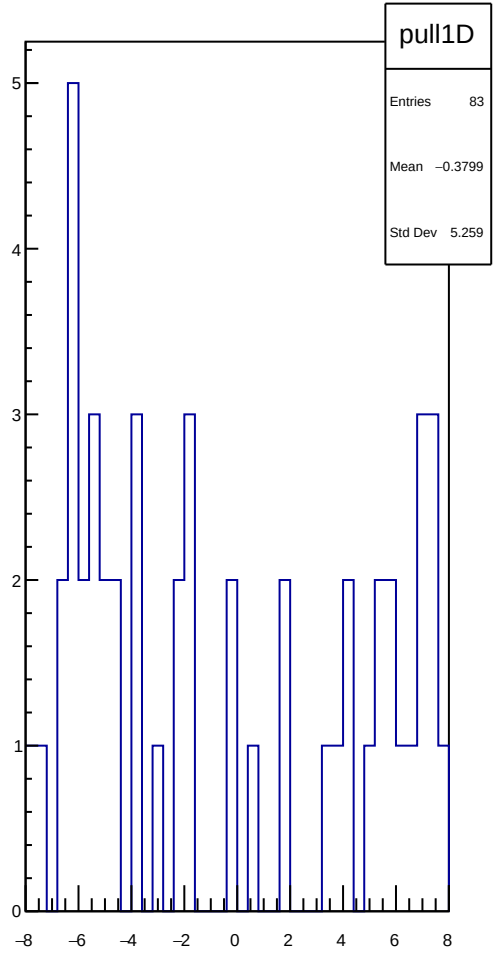

pull1D
Entries 83
Mean 0.6336
Std Dev 5.603

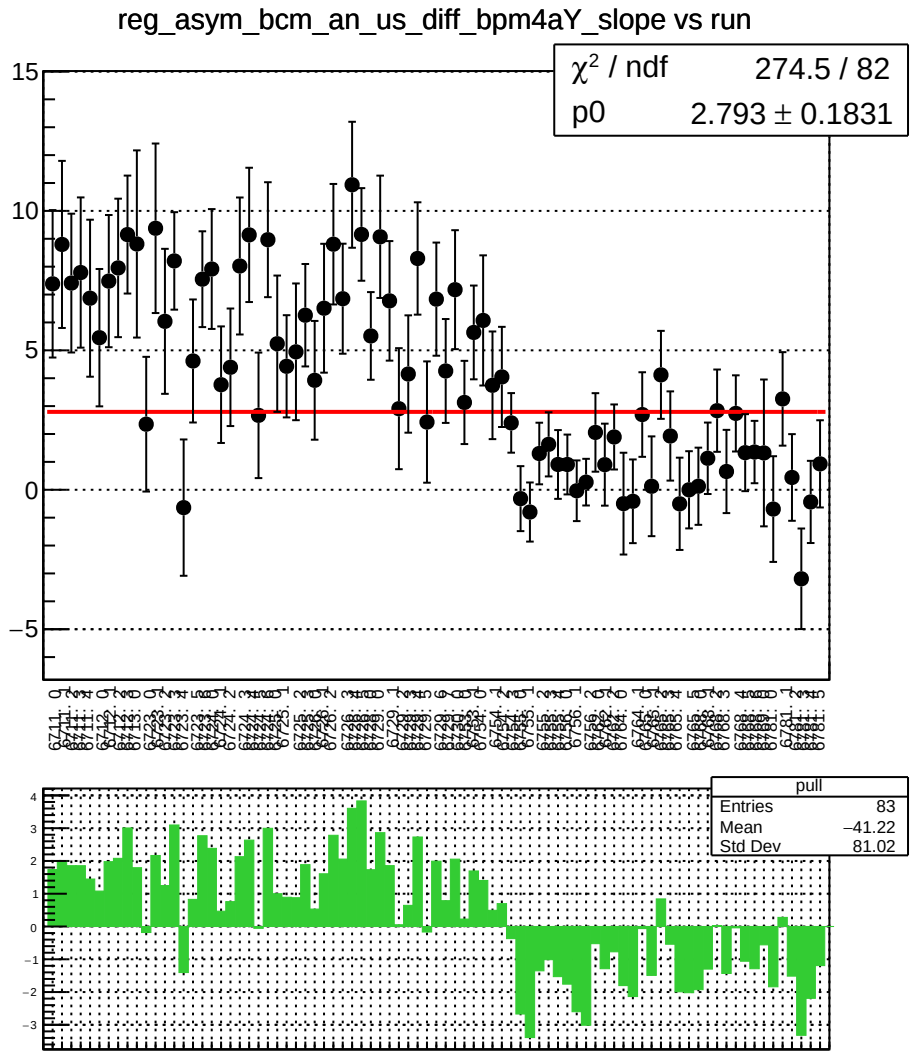

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 307.3 / 82
p0 −4.846 ± 0.2326
pull
Entries 83
Mean −66.41
Std Dev 108.1
pull1D
Entries 83
Mean −0.2914
Std Dev 1.902

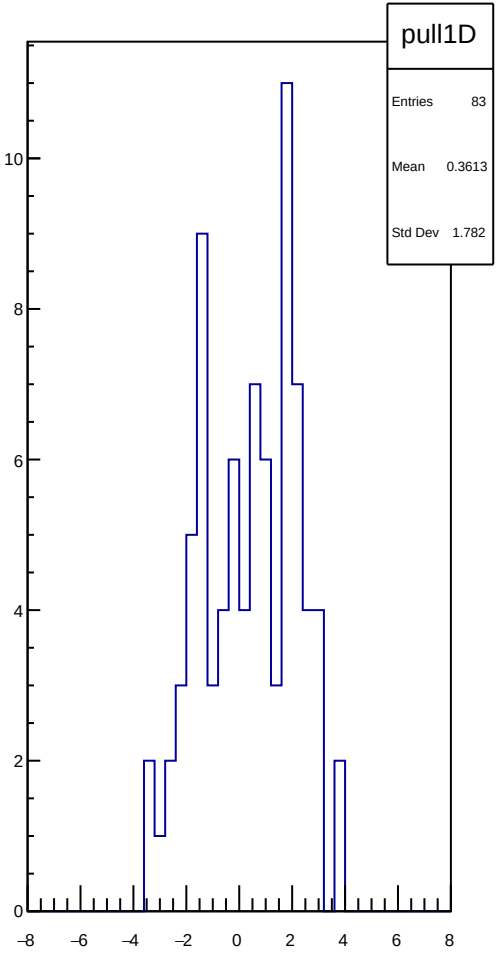

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 206.4 / 82
p0 0.4452 ± 0.01373
pull
Entries 83
Mean −30.44
Std Dev 74.33

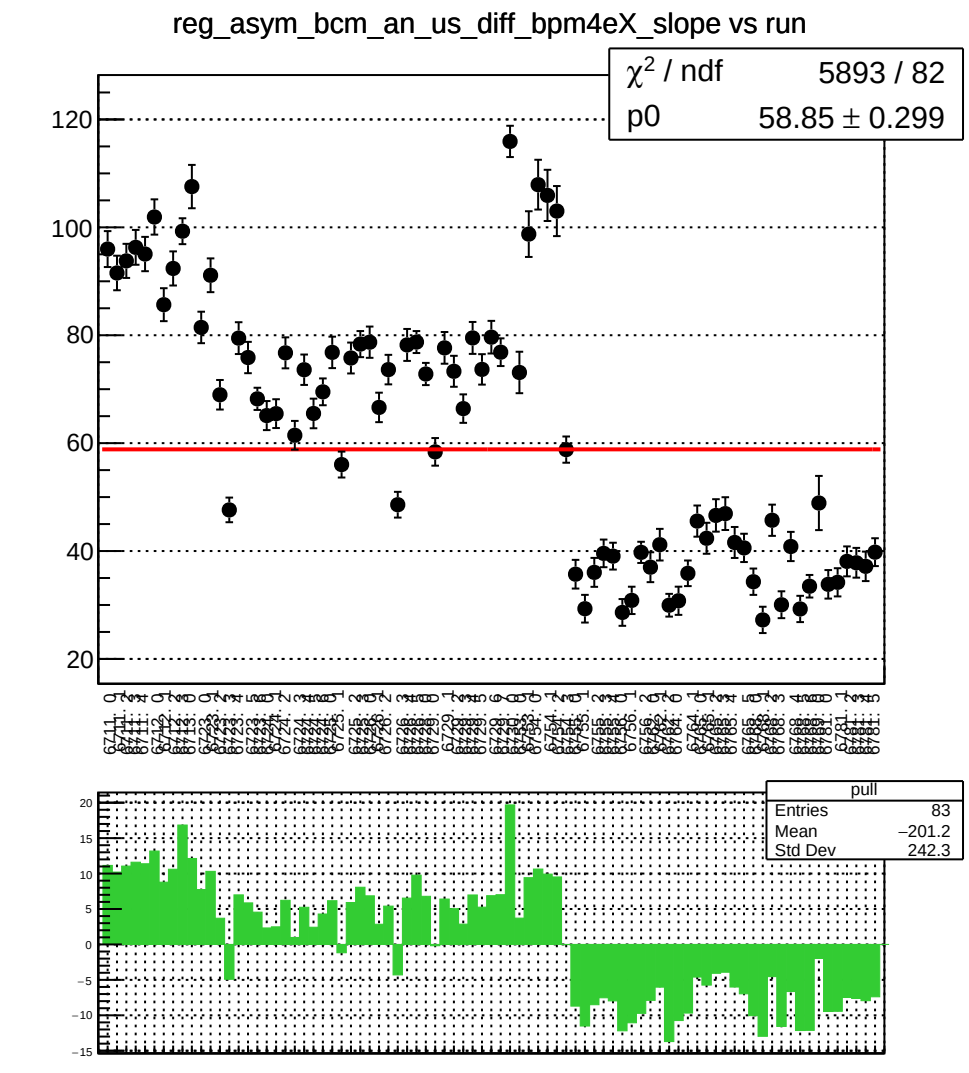

pull1D
Entries 83
Mean 0.163
Std Dev 1.568

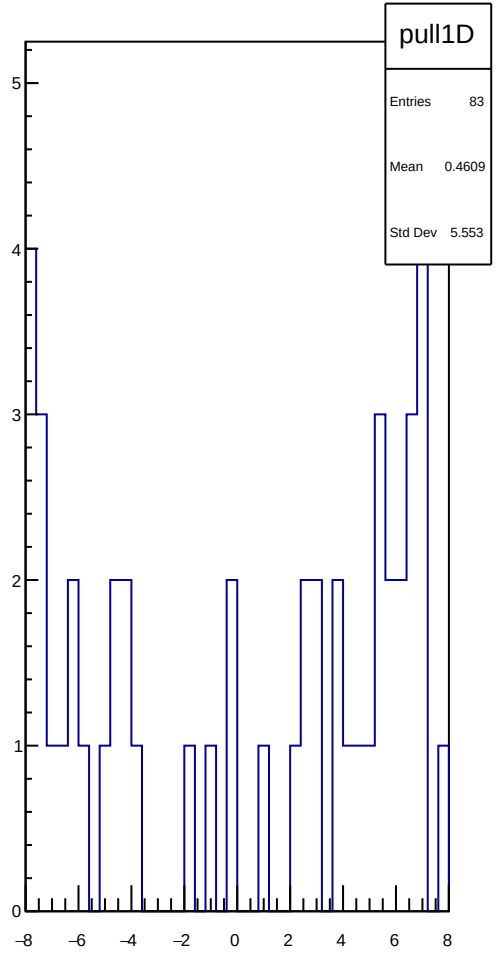

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 5469 / 82
p0 −62.18 ± 0.3129
pull
Entries 83
Mean −242.5
Std Dev 283.6

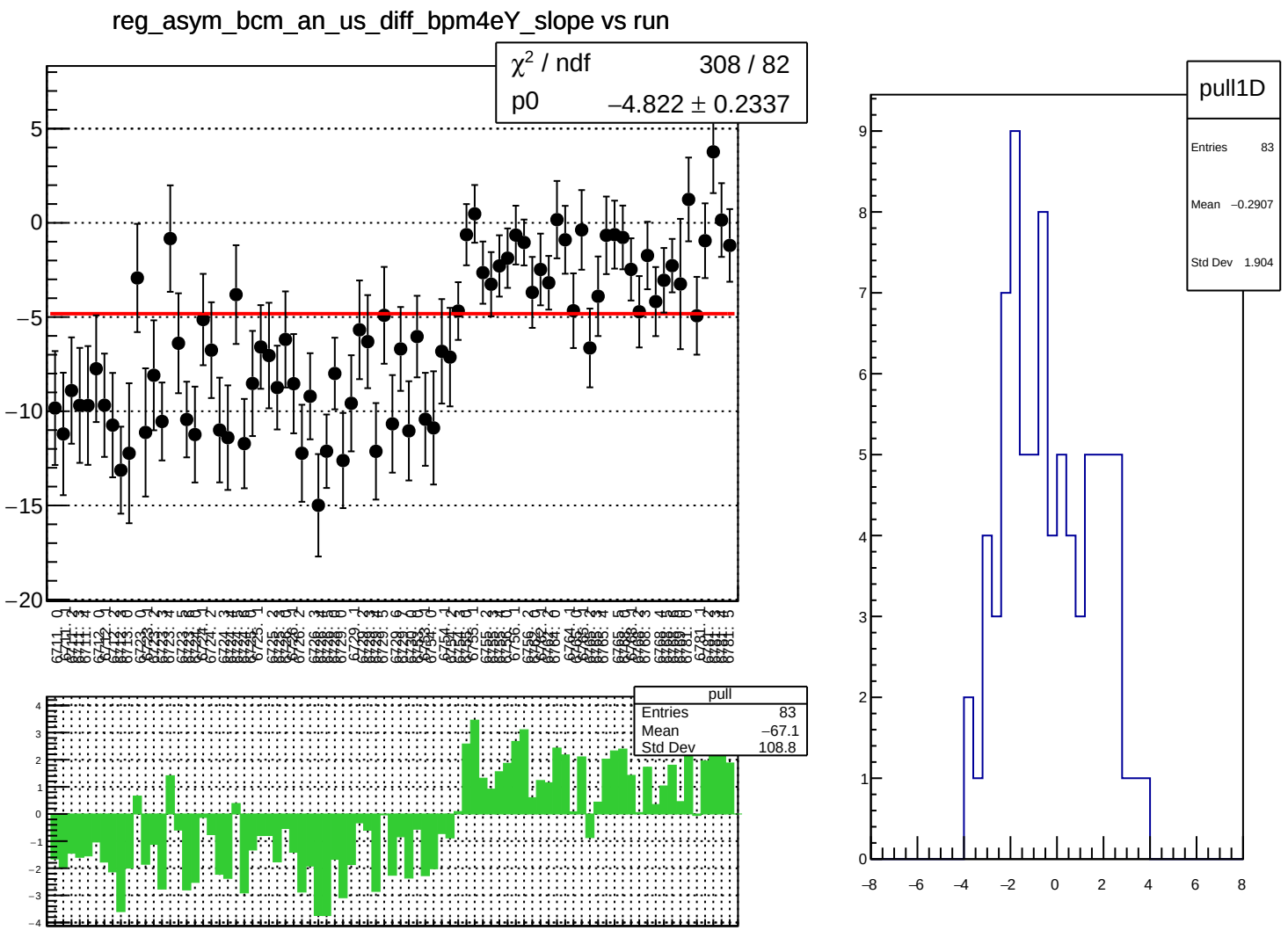

pull1D
Entries 83
Mean −0.3799
Std Dev 5.259

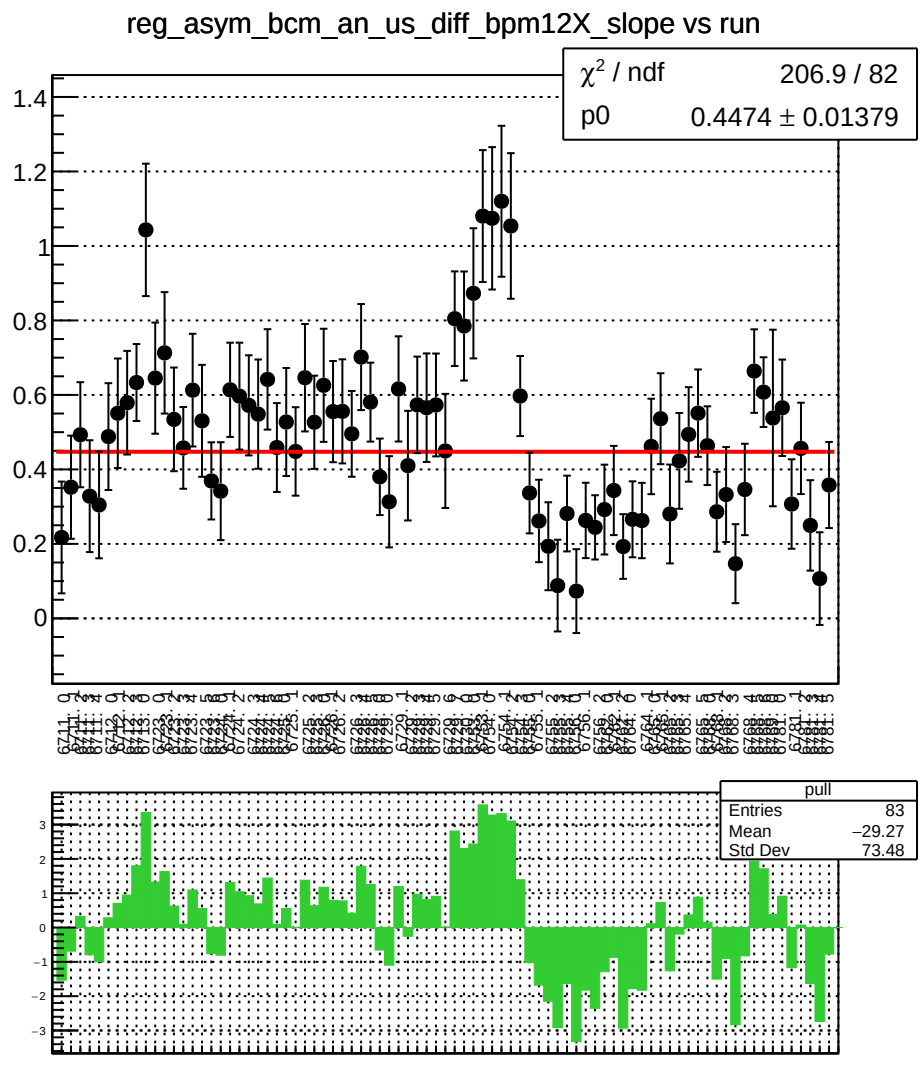

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 274.5 / 82
p0 2.793 ± 0.1831
pull
Entries 83
Mean −41.22
Std Dev 81.02

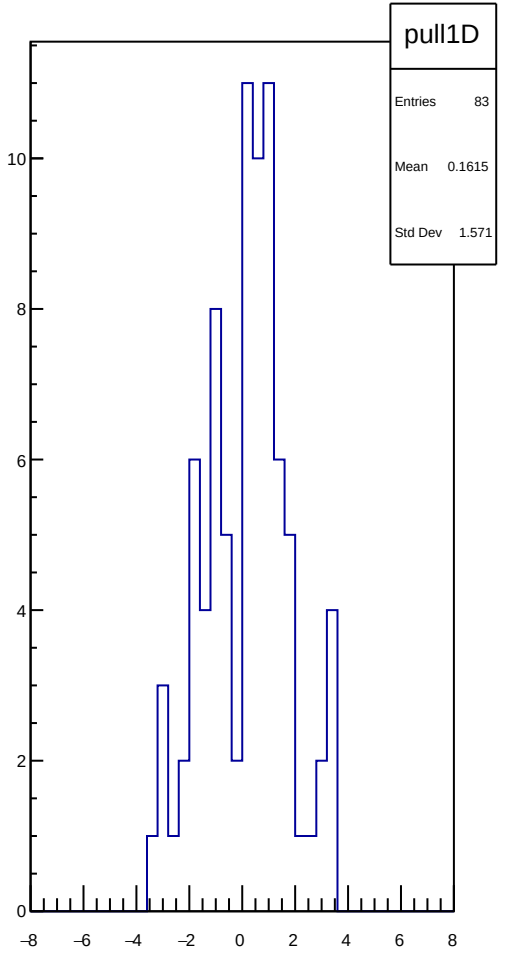

pull1D
Entries 83
Mean 0.3613
Std Dev 1.782

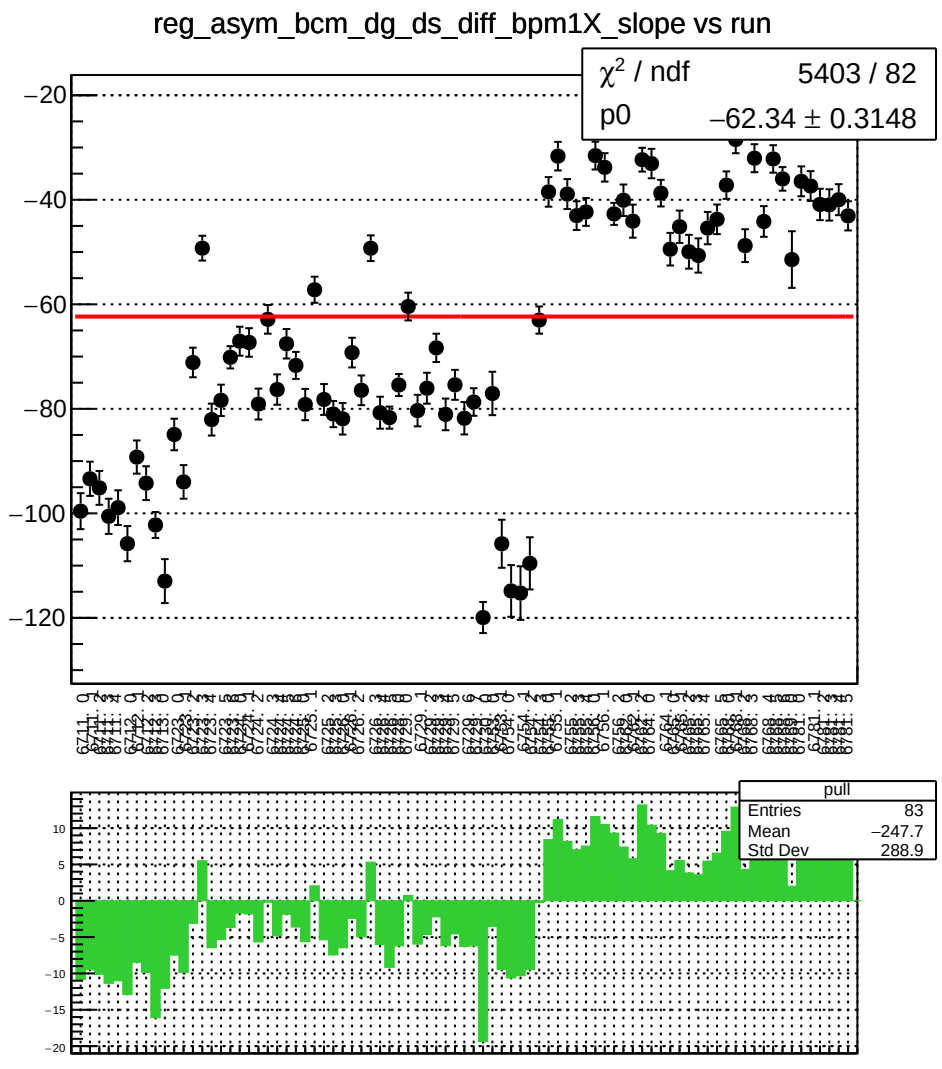

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 5893 / 82
p0 58.85 ± 0.299
pull
Entries 83
Mean −201.2
Std Dev 242.3

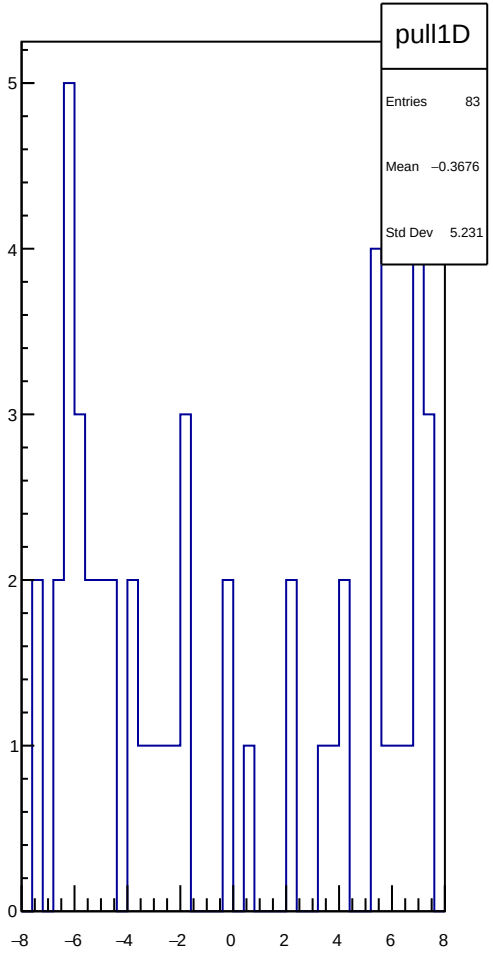

pull1D
Entries 83
Mean 0.4609
Std Dev 5.553

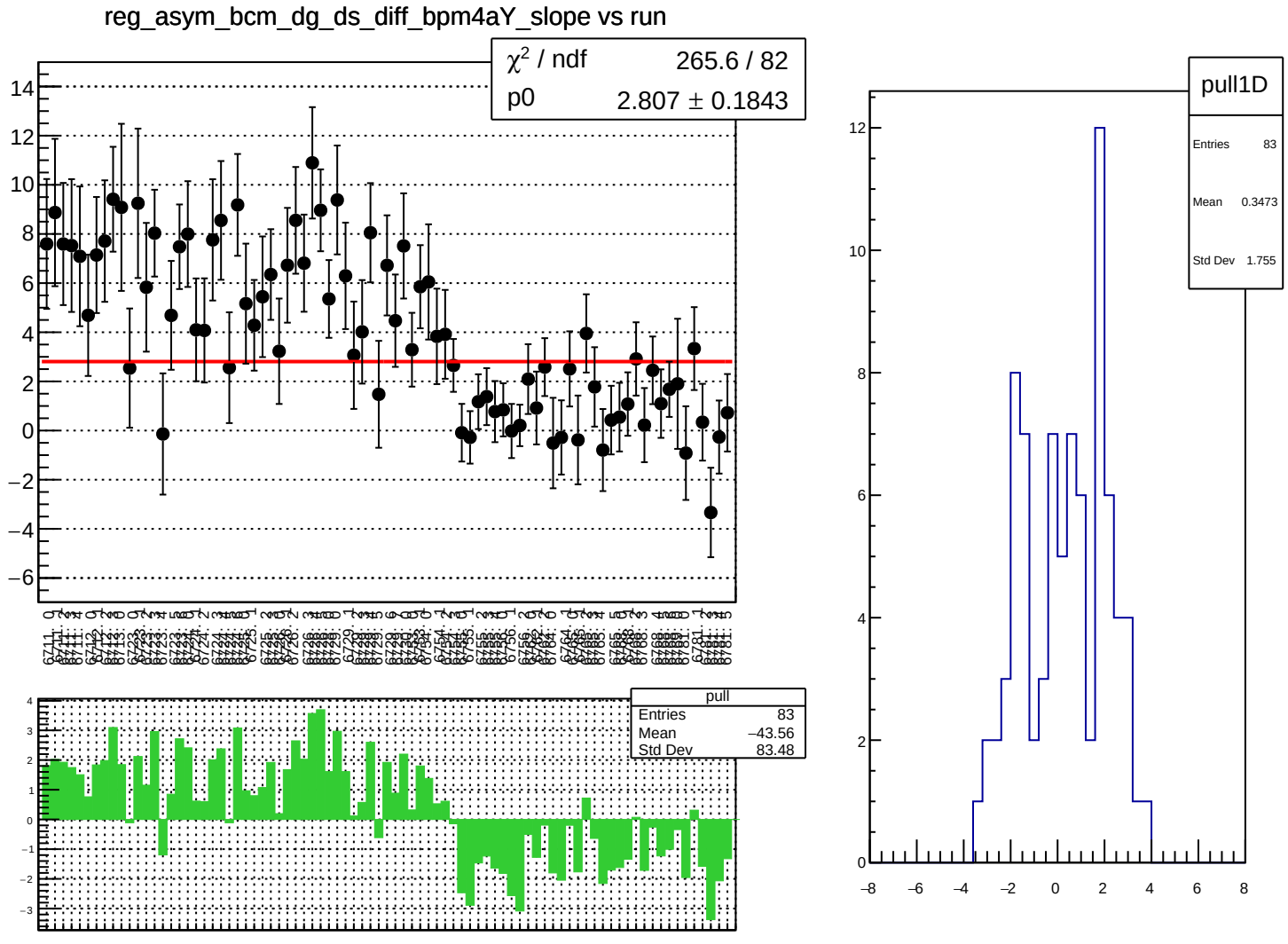

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 308 / 82
p0 −4.822 ± 0.2337
pull
Entries 83
Mean −67.1
Std Dev 108.8
pull1D
Entries 83
Mean −0.2907
Std Dev 1.904

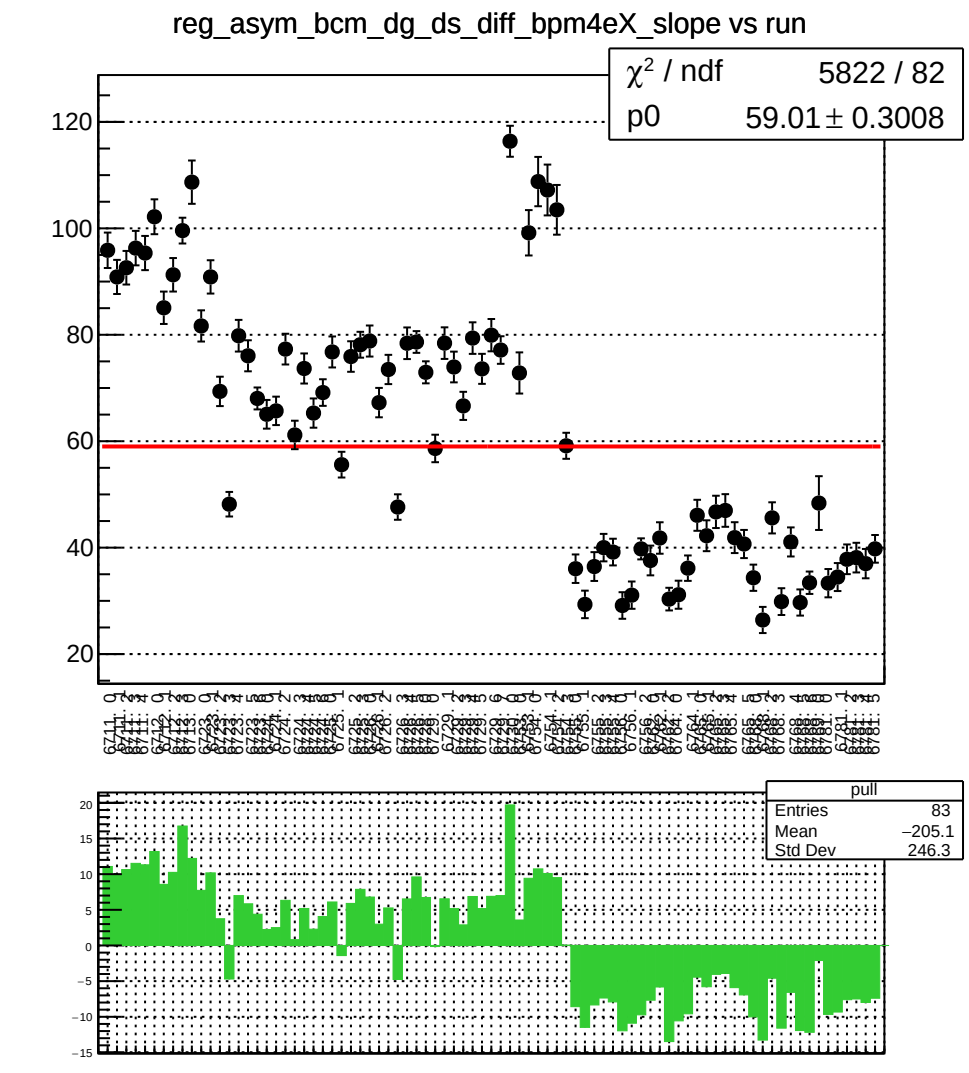

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 206.9 / 82
p0 0.4474 ± 0.01379
pull
Entries 83
Mean −29.27
Std Dev 73.48

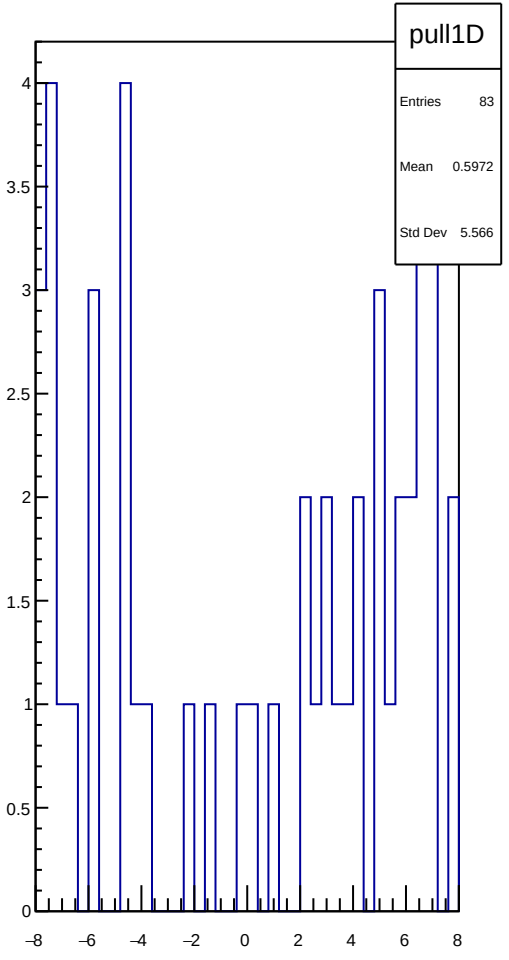

pull1D
Entries 83
Mean 0.1615
Std Dev 1.571

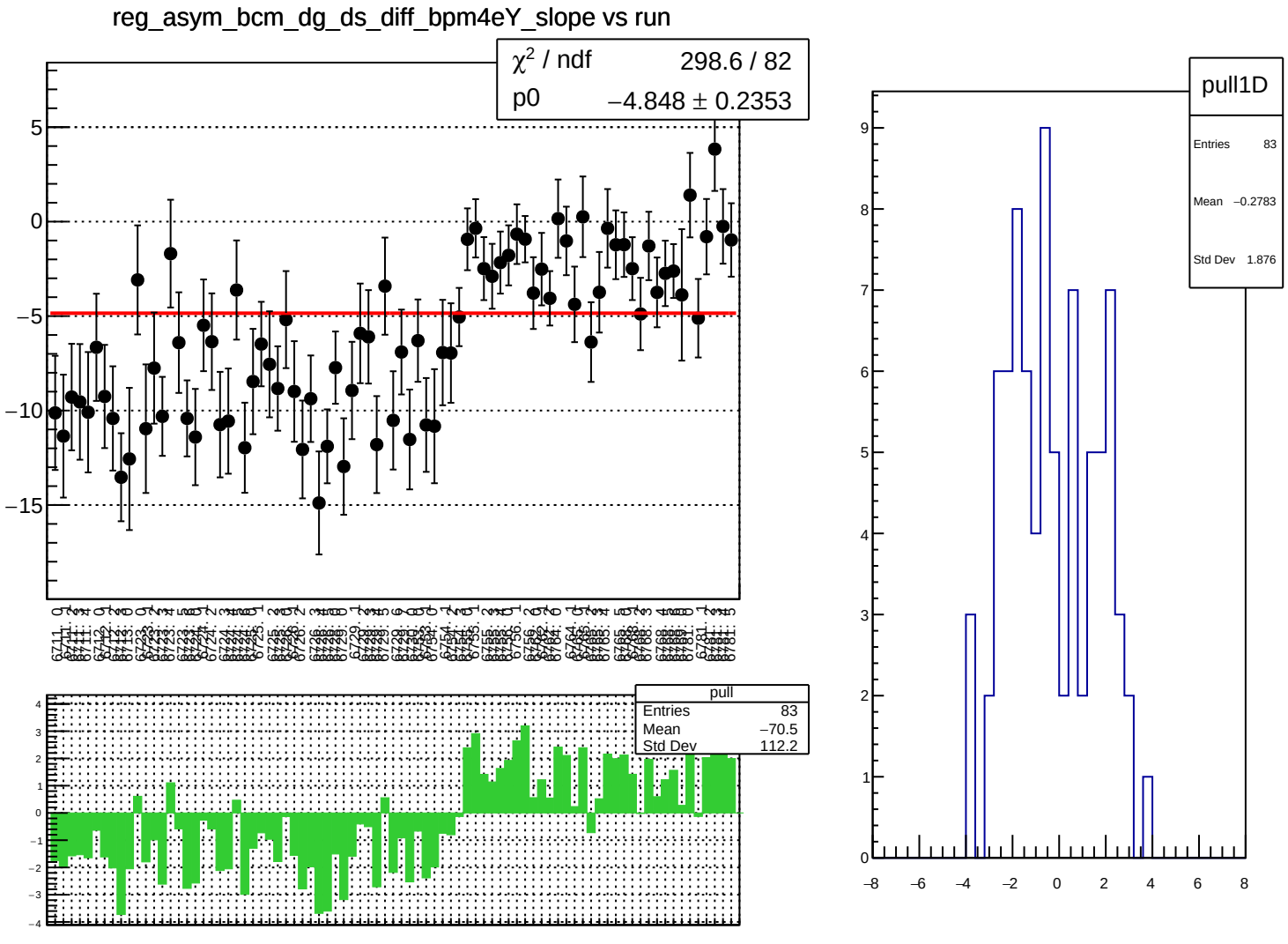

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 5403 / 82
p0 −62.34 ± 0.3148
pull
Entries 83
Mean −247.7
Std Dev 288.9

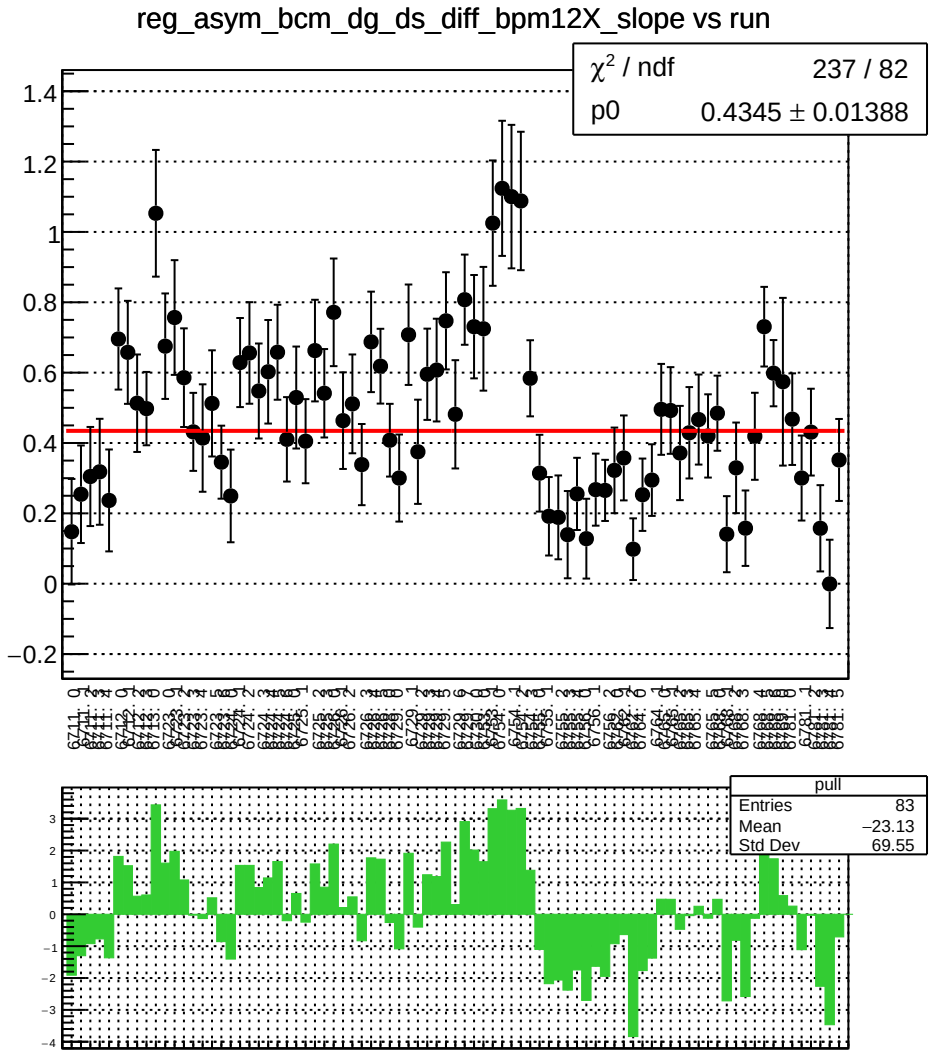

pull1D
Entries 83
Mean −0.3676
Std Dev 5.231

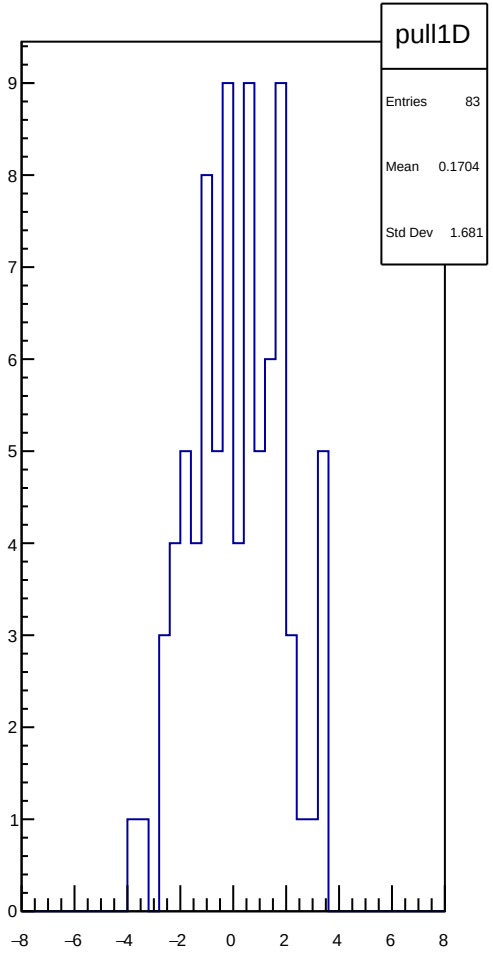

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 265.6 / 82
p0 2.807 ± 0.1843
pull
Entries 83
Mean −43.56
Std Dev 83.48
pull1D
Entries 83
Mean 0.3473
Std Dev 1.755

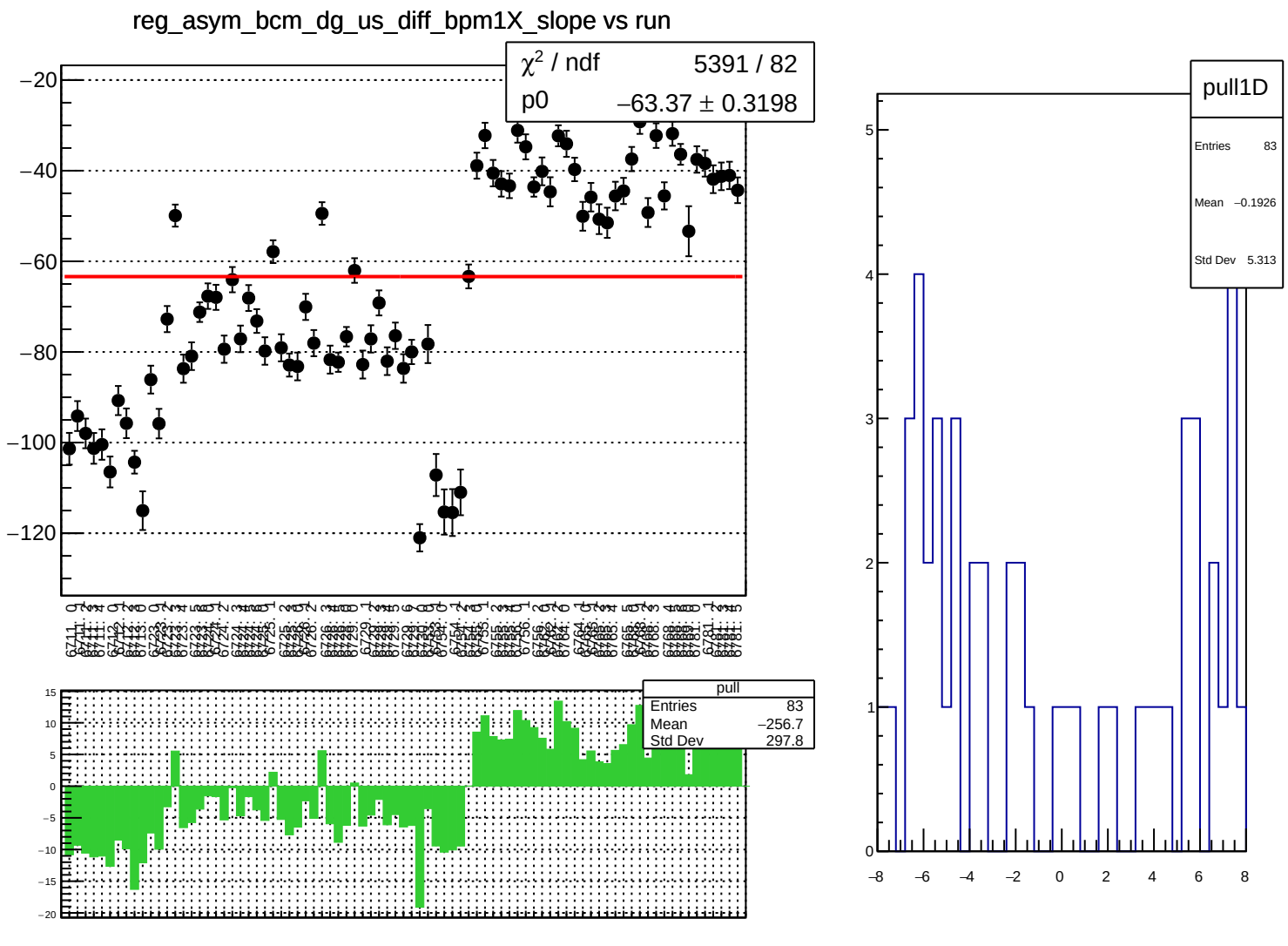

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 5822 / 82
p0 59.01 ± 0.3008
pull
Entries 83
Mean −205.1
Std Dev 246.3

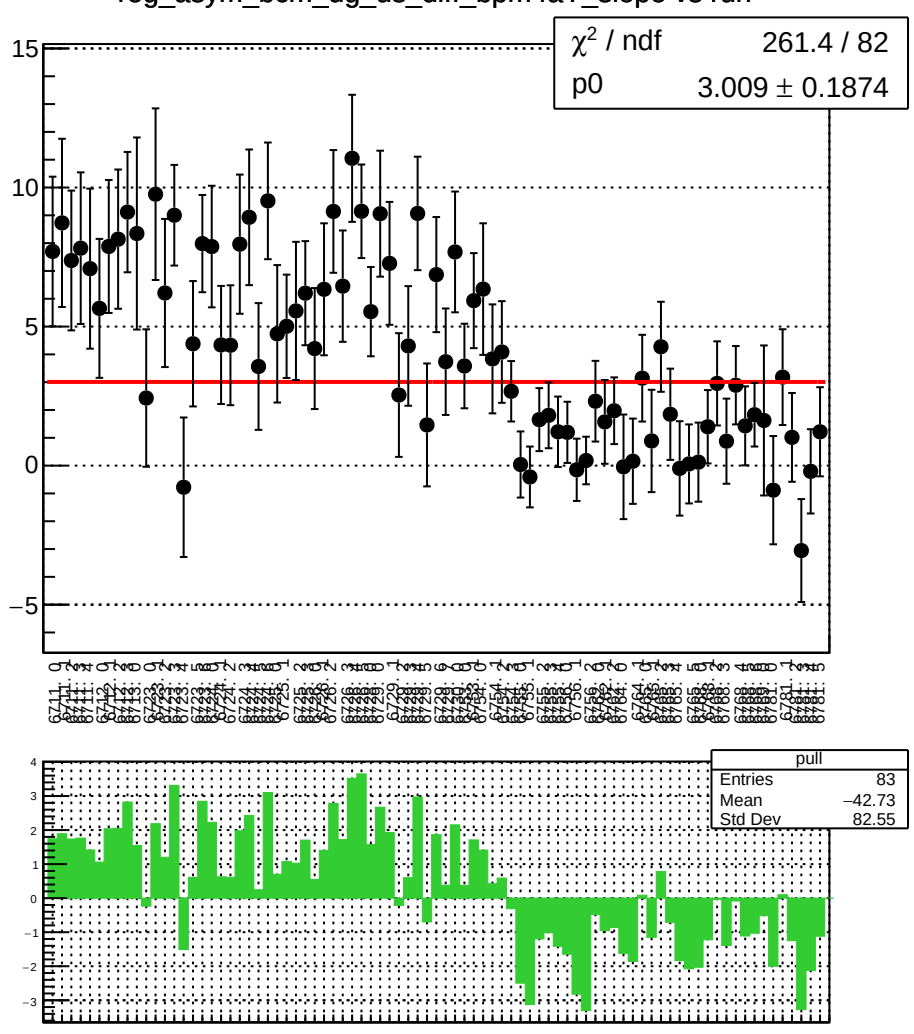

pull1D
Entries 83
Mean 0.5972
Std Dev 5.566

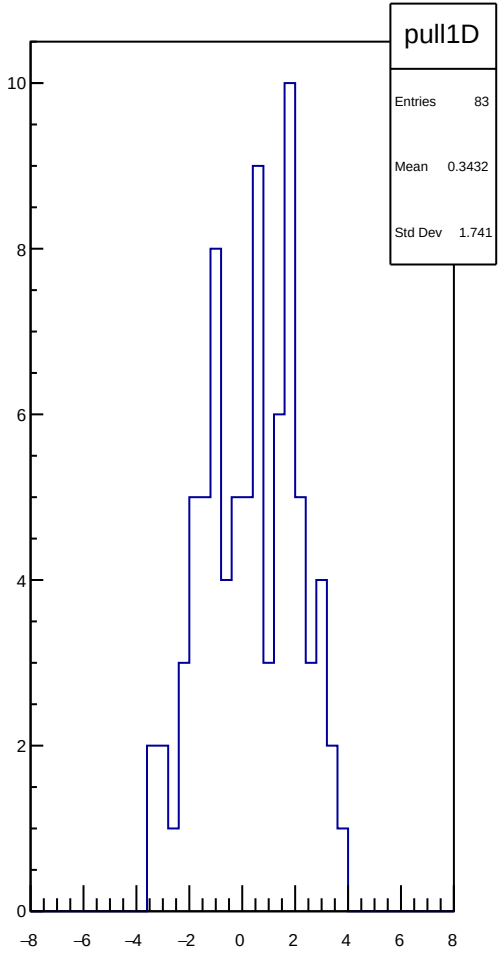

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 298.6 / 82
p0 −4.848 ± 0.2353
pull
Entries 83
Mean −70.5
Std Dev 112.2
pull1D
Entries 83
Mean −0.2783
Std Dev 1.876

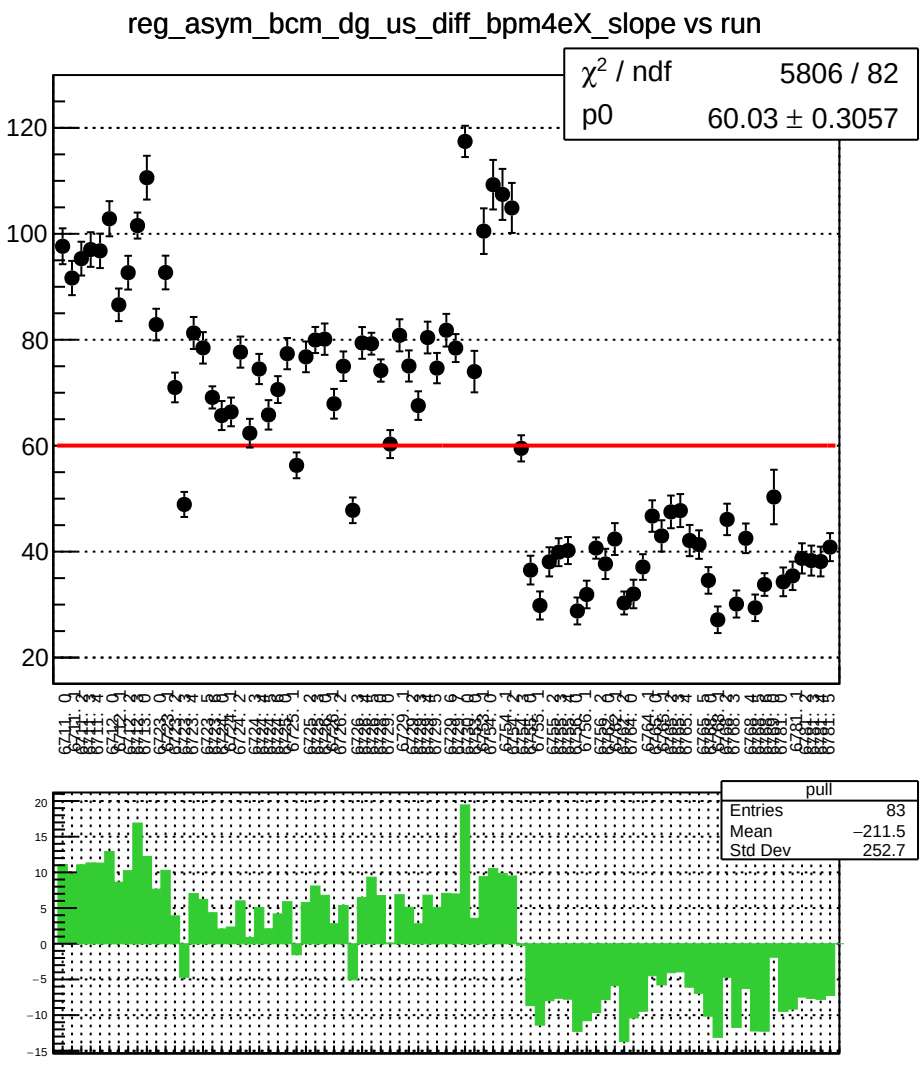

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 237 / 82
p0 0.4345 ± 0.01388
pull
Entries 83
Mean −23.13
Std Dev 69.55

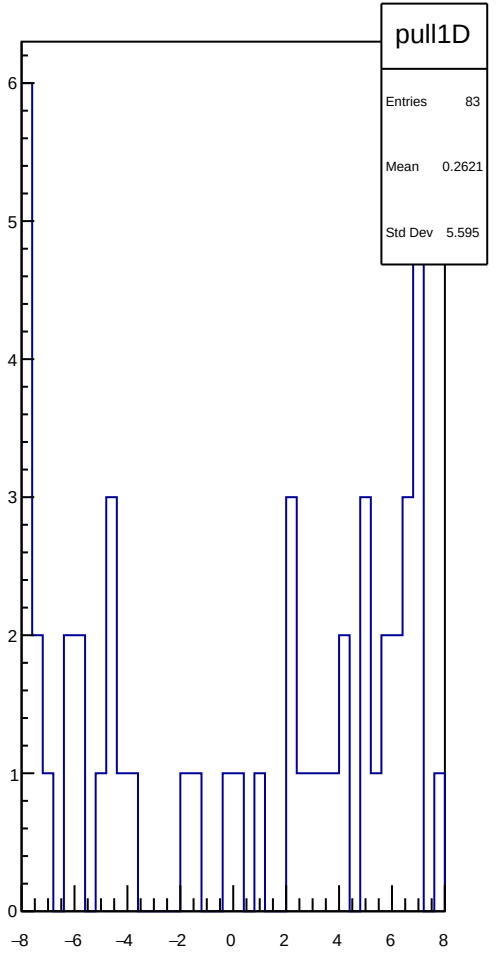

pull1D
Entries 83
Mean 0.1704
Std Dev 1.681

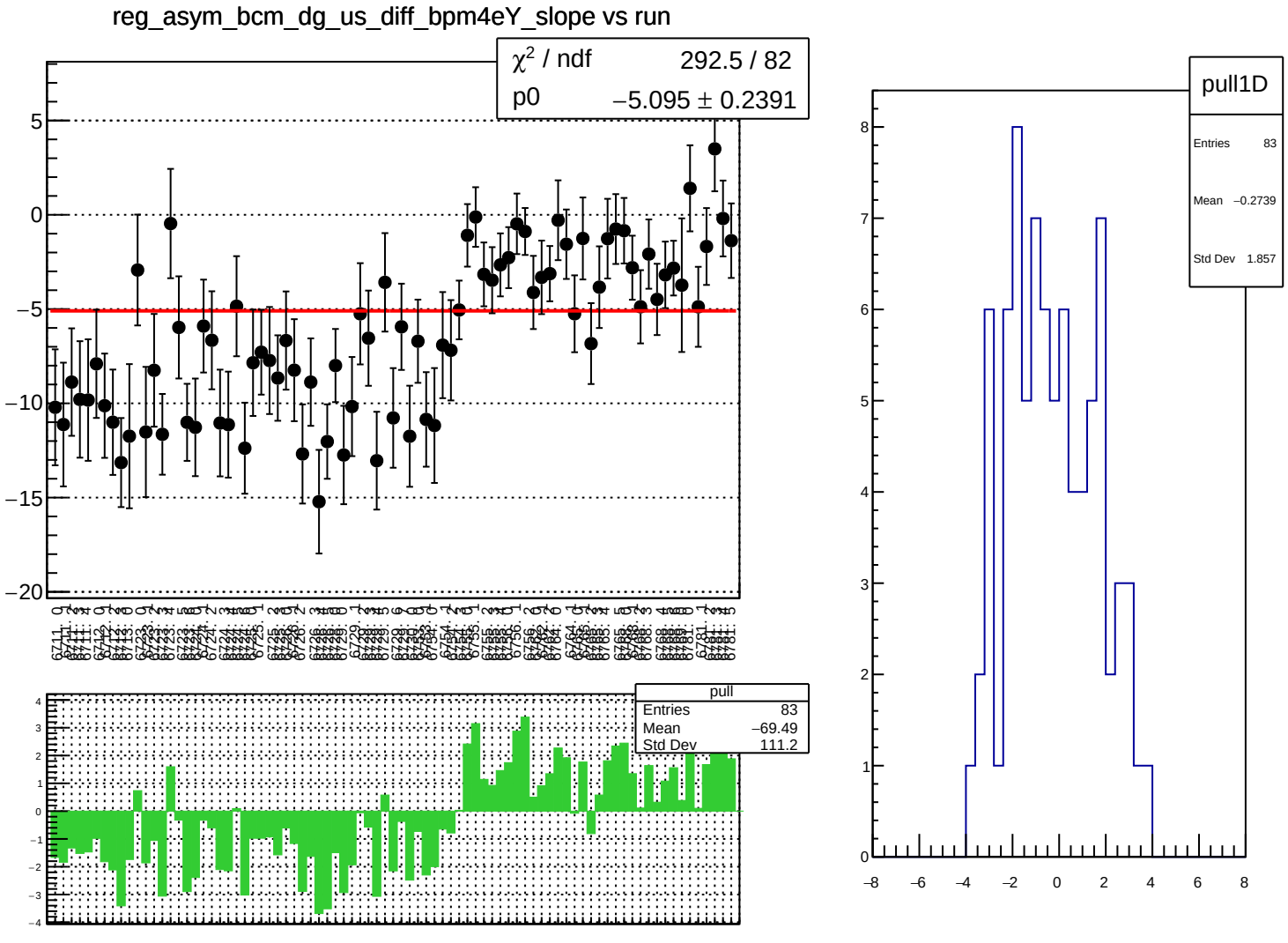

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 5391 / 82
p0 −63.37 ± 0.3198
pull
Entries 83
Mean −256.7
Std Dev 297.8
pull1D
Entries 83
Mean −0.1926
Std Dev 5.313

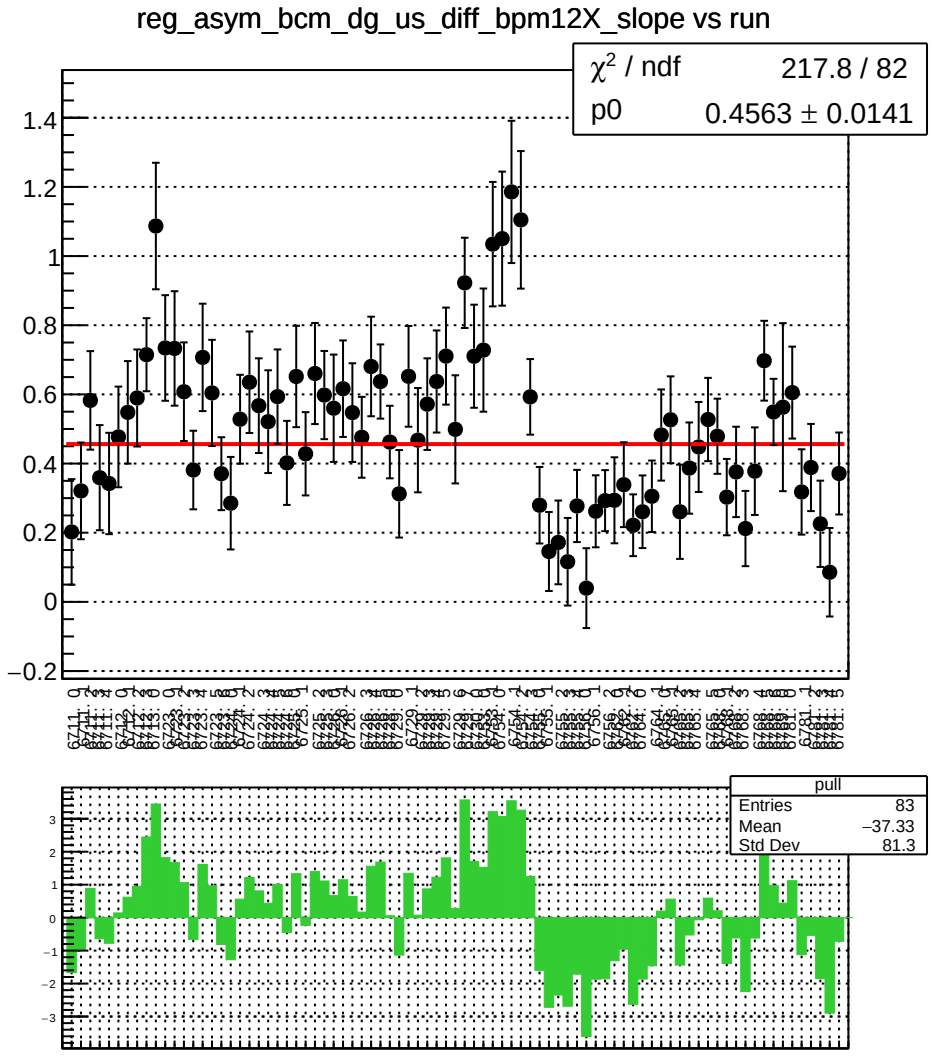

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 261.4 / 82
p0 3.009 ± 0.1874
pull
Entries 83
Mean −42.73
Std Dev 82.55

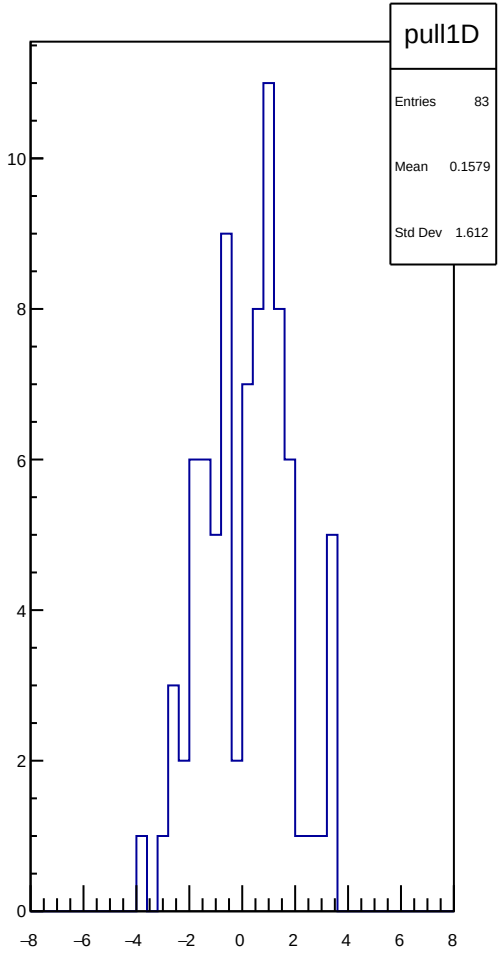

pull1D
Entries 83
Mean 0.3432
Std Dev 1.741


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 5806 / 82
p0 60.03 ± 0.3057
pull
Entries 83
Mean −211.5
Std Dev 252.7


pull1D
Entries 83
Mean 0.2621
Std Dev 5.595


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 292.5 / 82
p0 −5.095 ± 0.2391
pull
Entries 83
Mean −69.49
Std Dev 111.2
pull1D
Entries 83
Mean −0.2739
Std Dev 1.857


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 217.8 / 82
p0 0.4563 ± 0.0141
pull
Entries 83
Mean −37.33
Std Dev 81.3


pull1D
Entries 83
Mean 0.1579
Std Dev 1.612