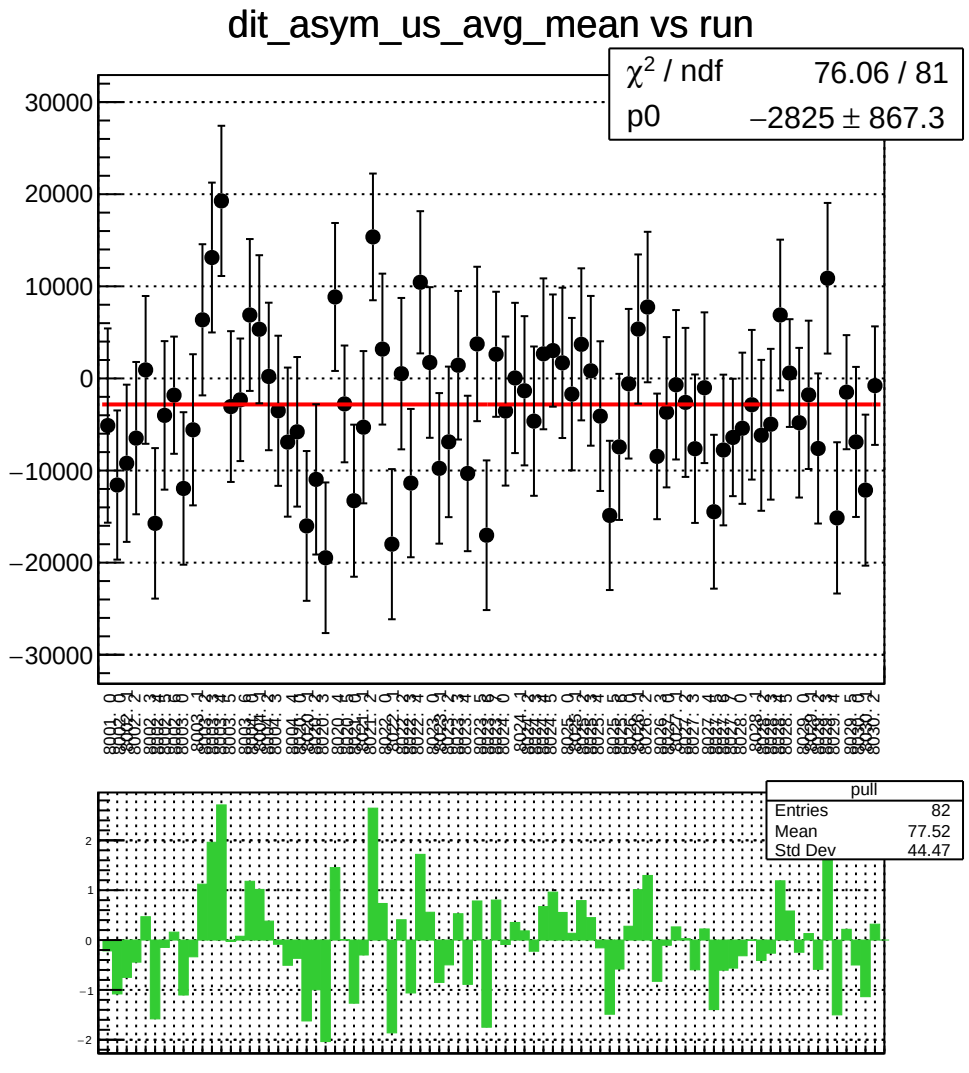
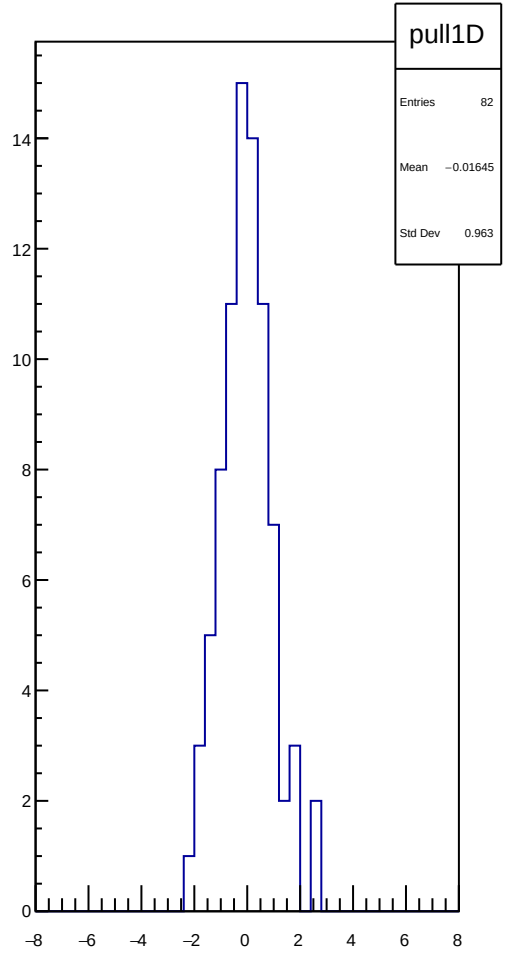
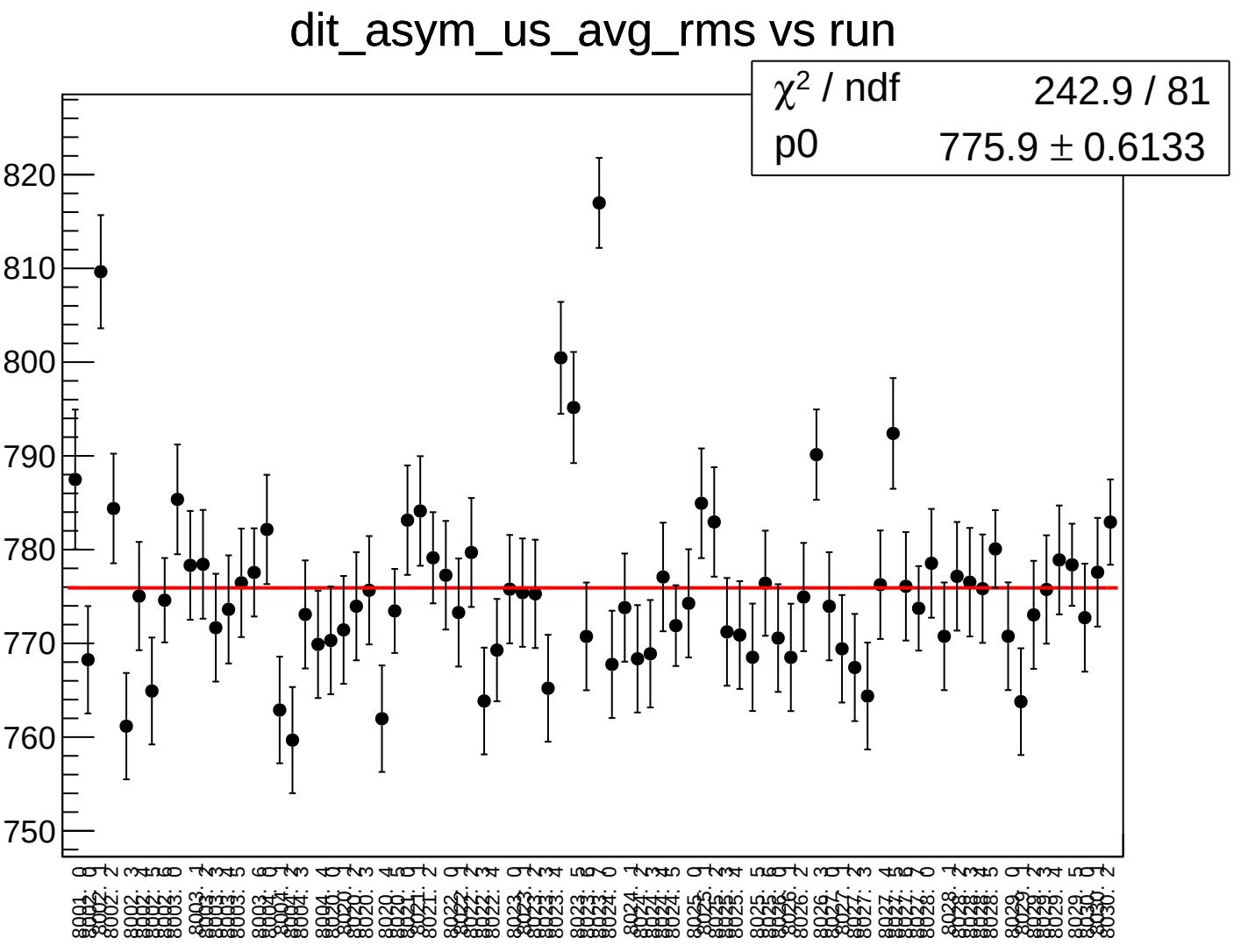
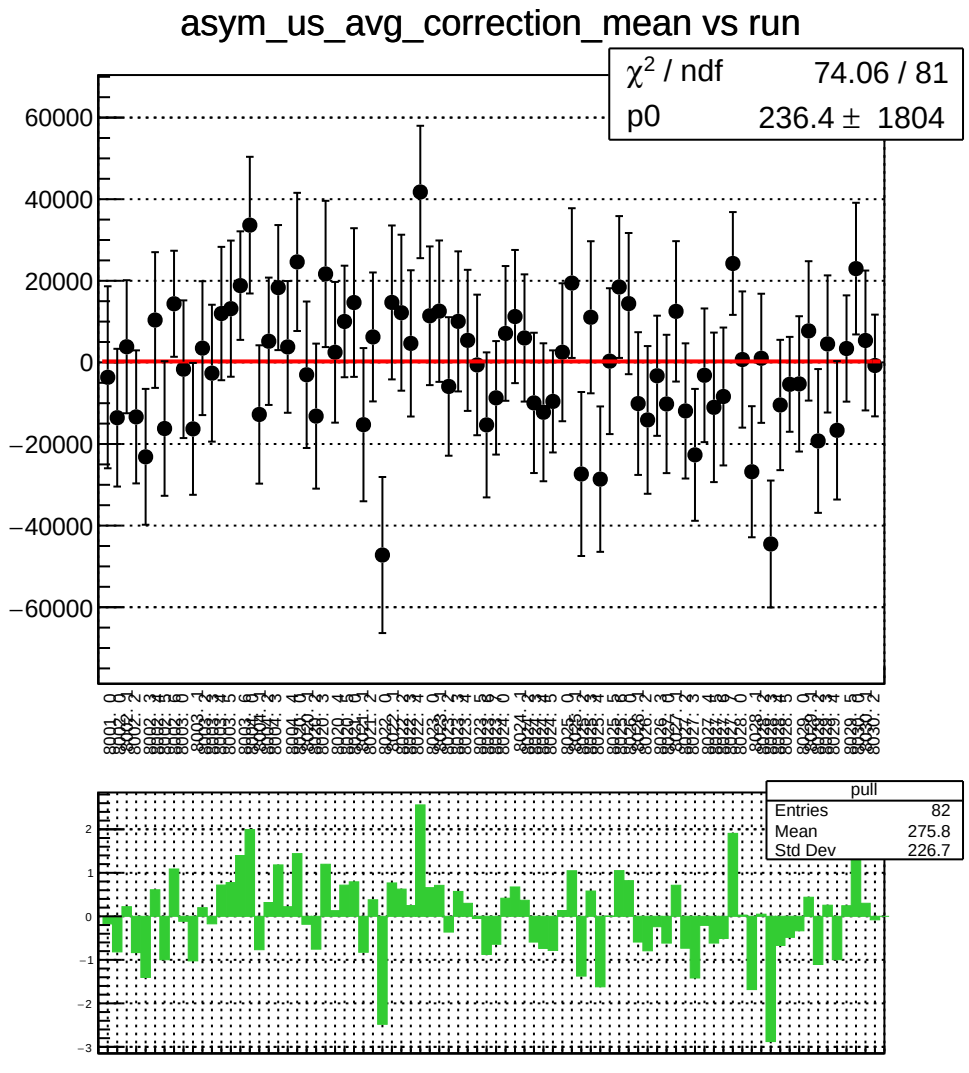
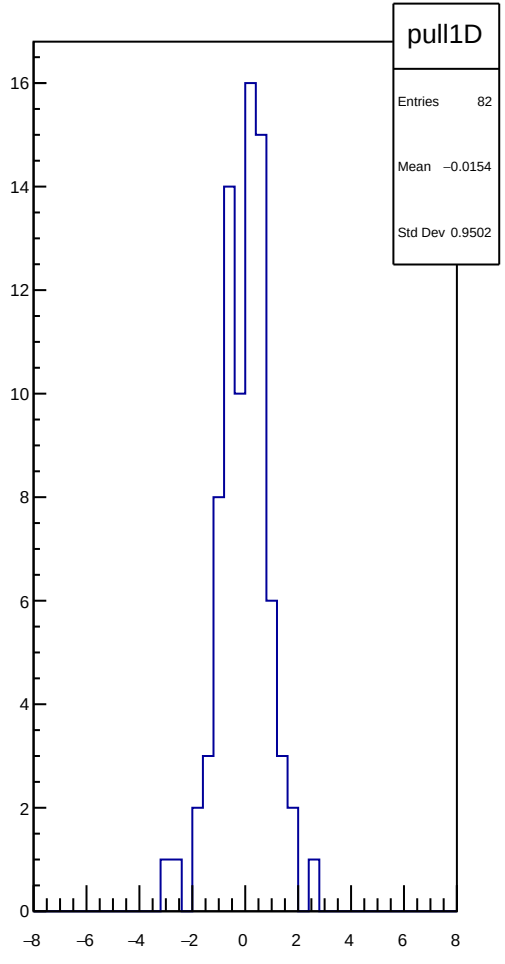
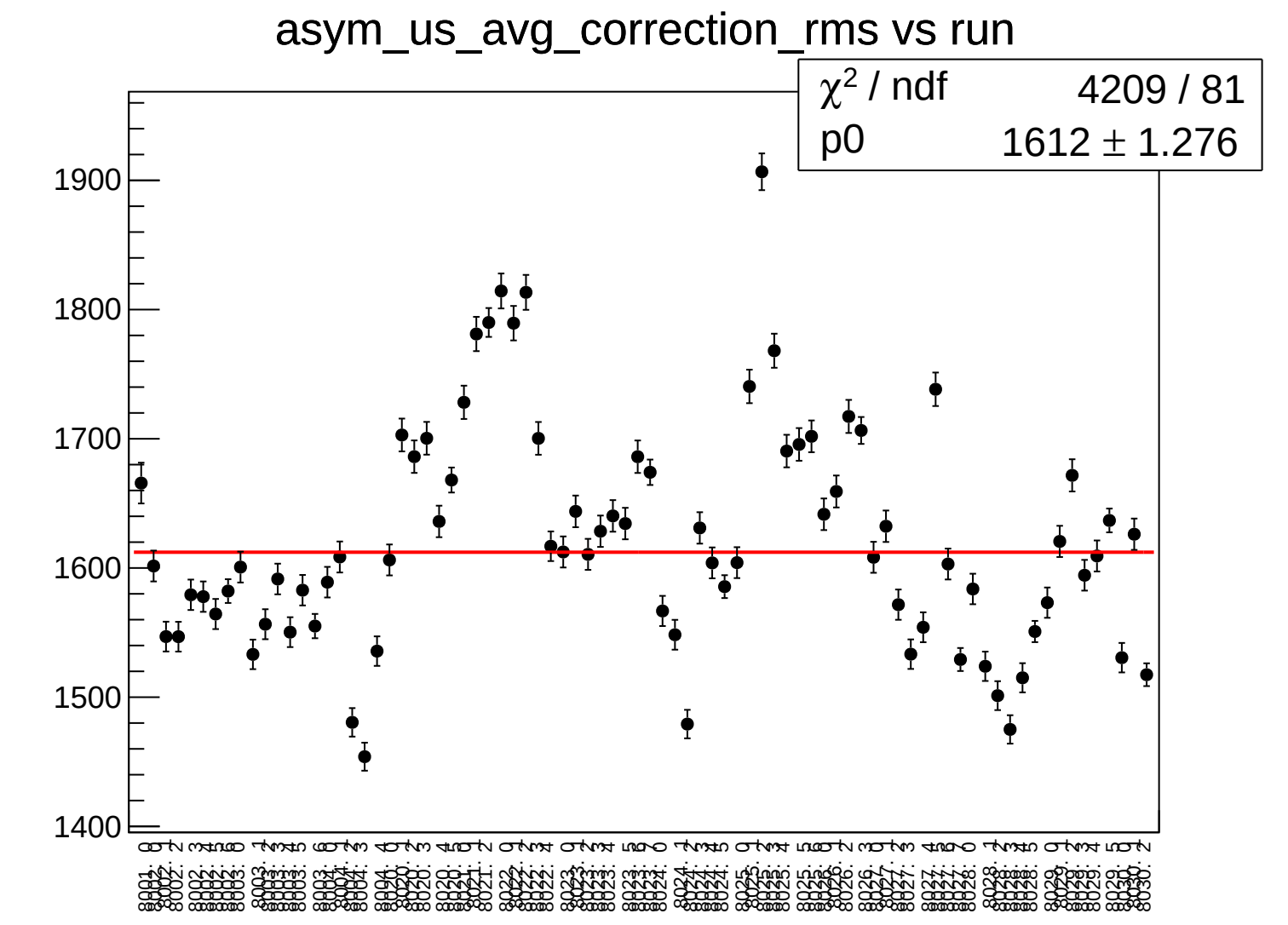

dit_asym_us_avg_mean vs run
χ² / ndf 76.06 / 81
p0 −2825 ± 867.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 77.52
Std Dev 44.47
2
1
0
−1
−2

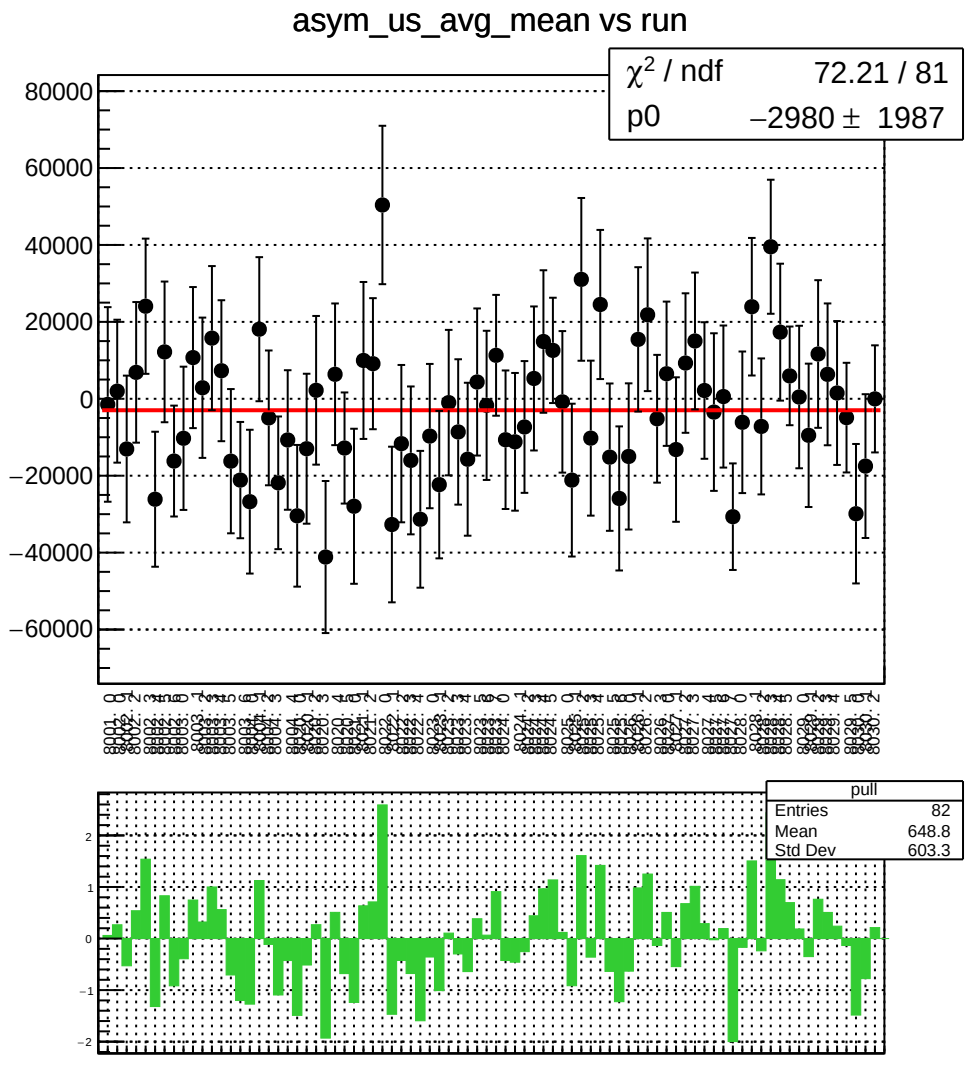

pull1D
Entries 82
Mean −0.01645
Std Dev 0.963
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

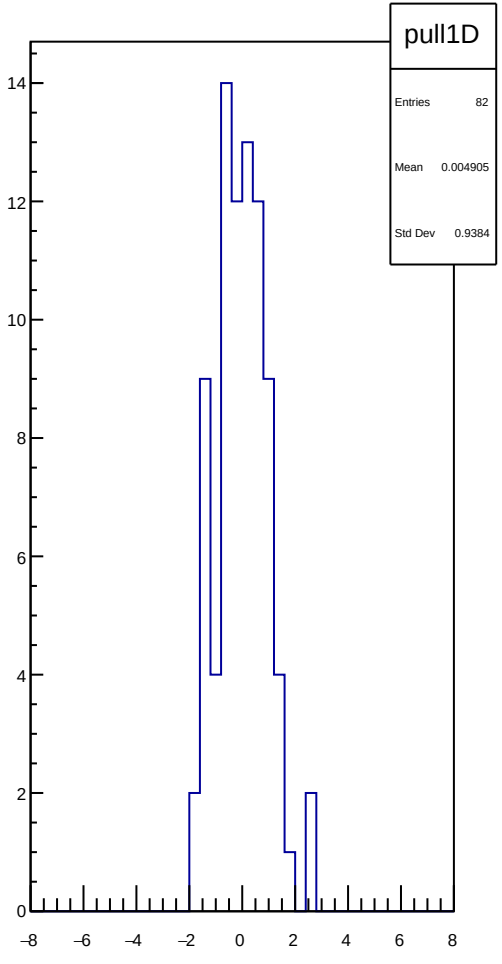

dit_asym_us_avg_rms vs run
χ² / ndf 242.9 / 81
p0 775.9 ± 0.6133
820
810
800
790
780
770
760
750

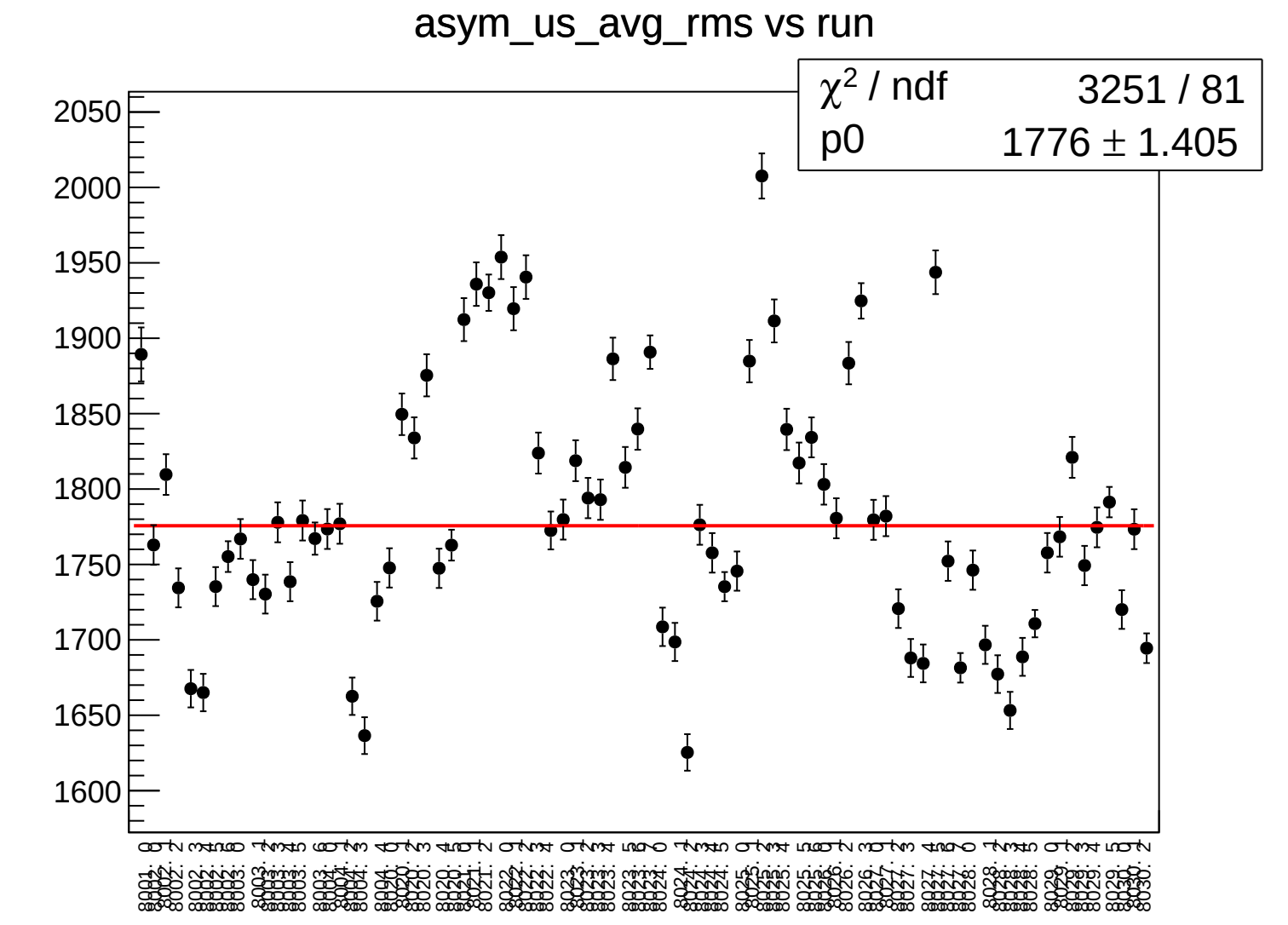

asym_us_avg_correction_mean vs run
χ² / ndf 74.06 / 81
p0 236.4 ± 1804
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 275.8
Std Dev 226.7
2
1
0
−1
−2
−3

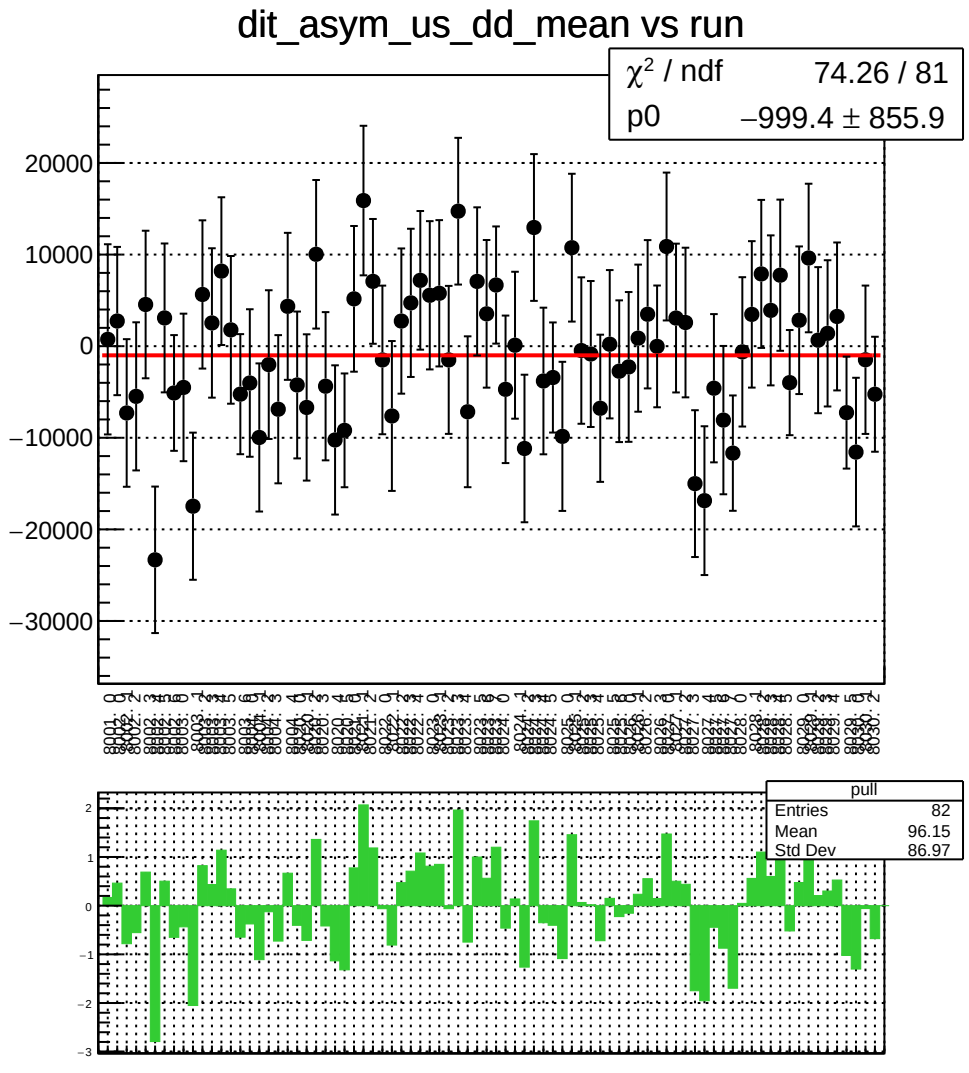

pull1D
Entries 82
Mean −0.0154
Std Dev 0.9502
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

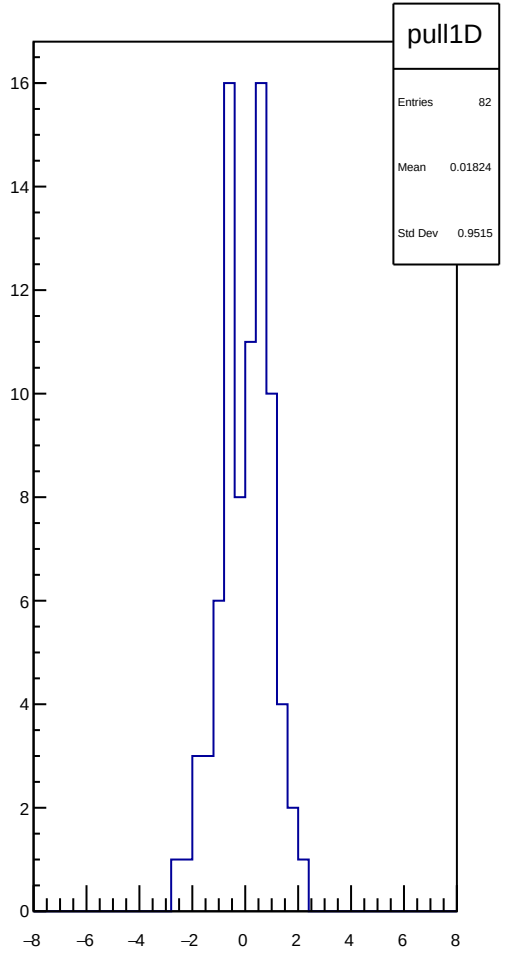

asym_us_avg_correction_rms vs run
χ² / ndf 4209 / 81
p0 1612 ± 1.276
1900
1800
1700
1600
1500
1400

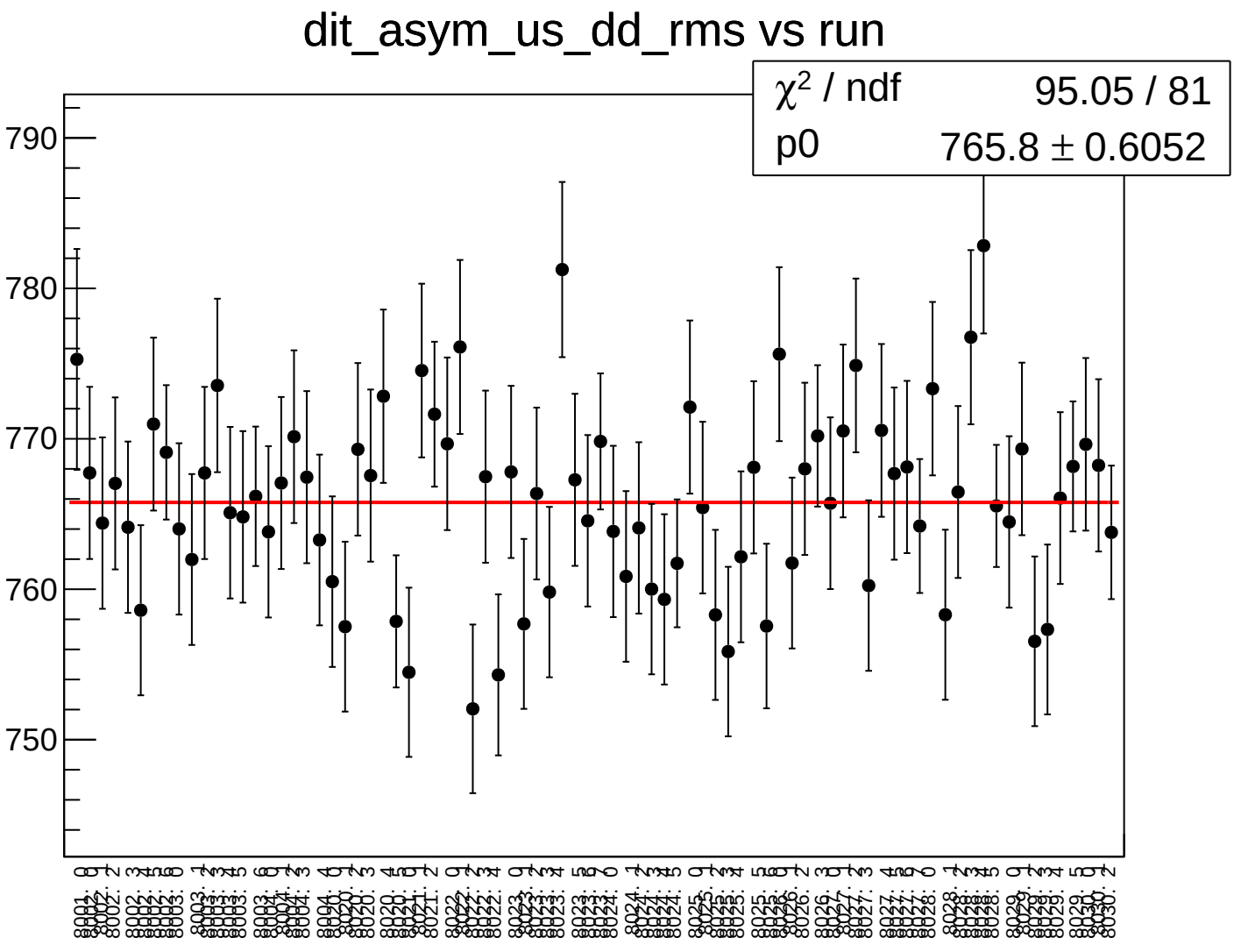

asym_us_avg_mean vs run
χ² / ndf 72.21 / 81
p0 −2980 ± 1987
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 648.8
Std Dev 603.3
2
1
0
−1
−2

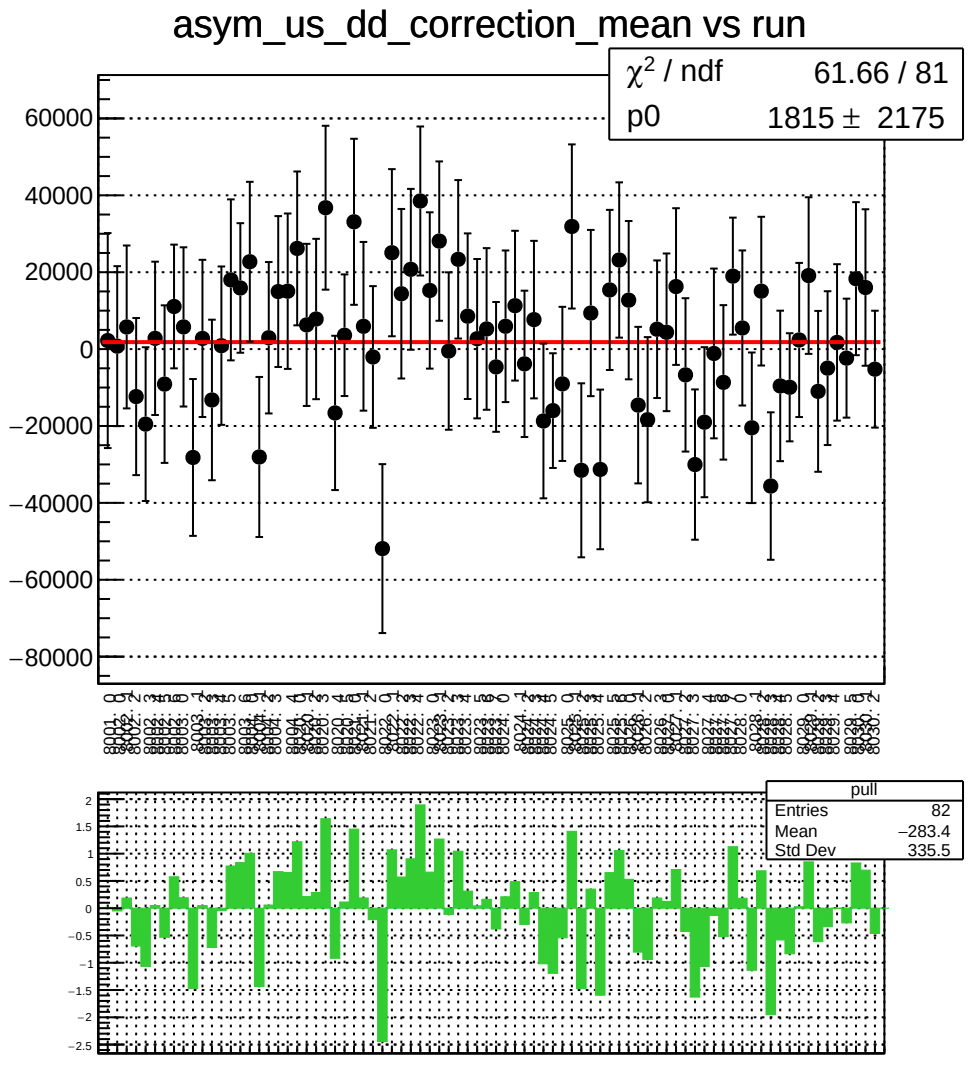

pull1D
Entries 82
Mean 0.004905
Std Dev 0.9384
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

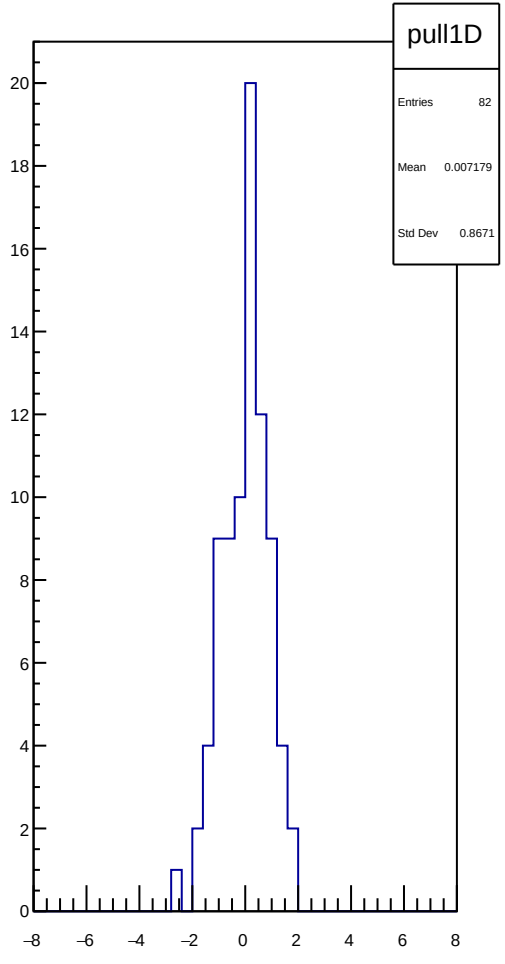

asym_us_avg_rms vs run
χ^2 / ndf 3251 / 81
p0 1776 ± 1.405
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600

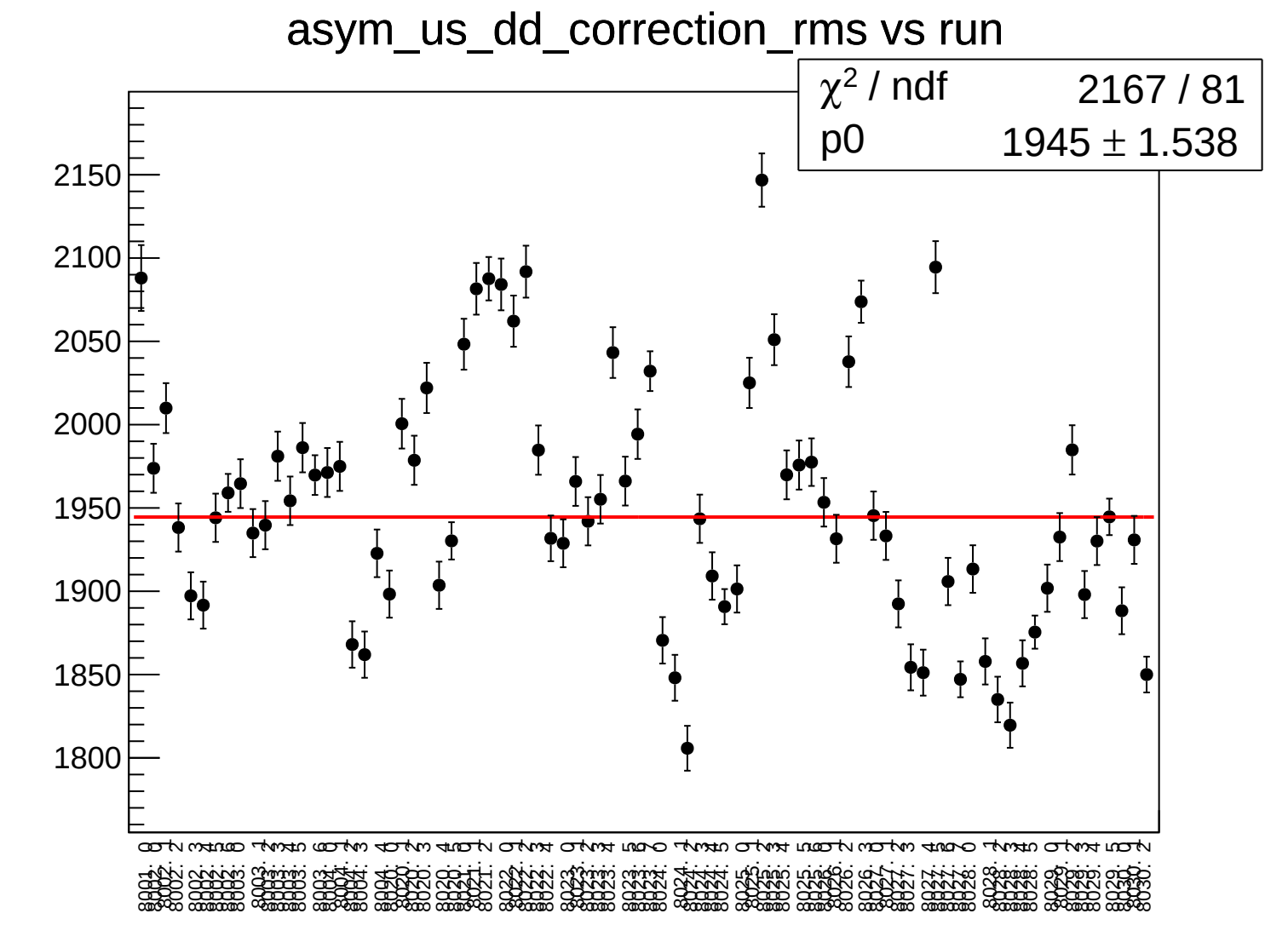

dit_asym_us_dd_mean vs run
χ² / ndf 74.26 / 81
p0 −999.4 ± 855.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 96.15
Std Dev 86.97
2
1
0
−1
−2
−3

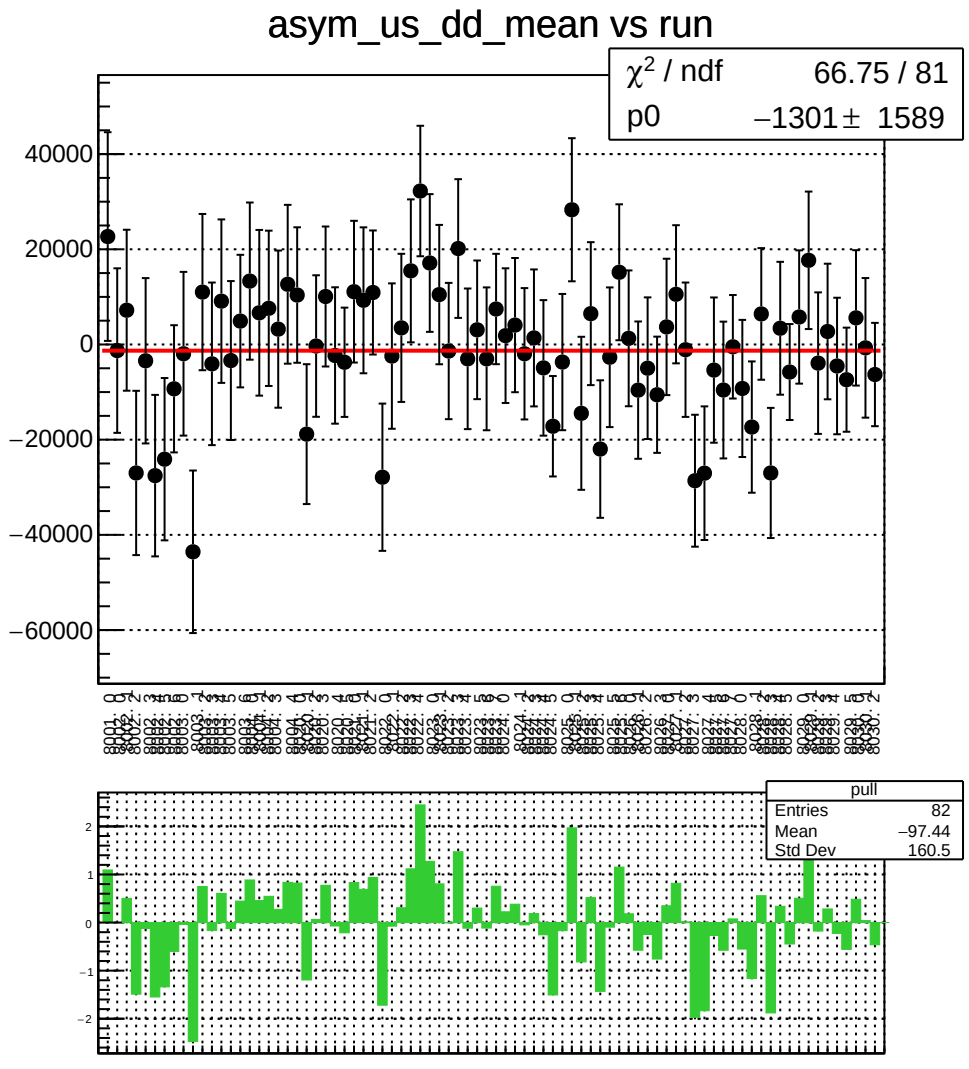

pull1D
Entries 82
Mean 0.01824
Std Dev 0.9515
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

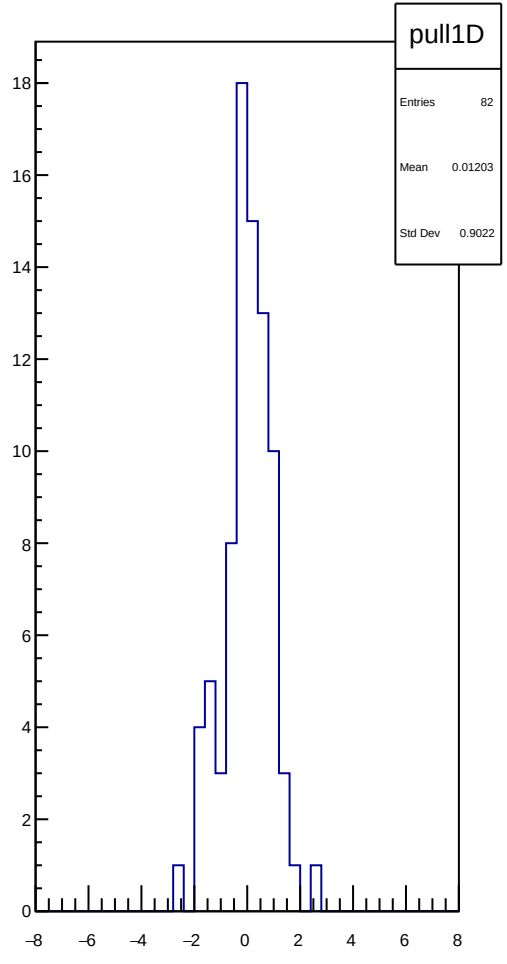

dit_asym_us_dd_rms vs run
χ² / ndf 95.05 / 81
p0 765.8 ± 0.6052
790
780
770
760
750

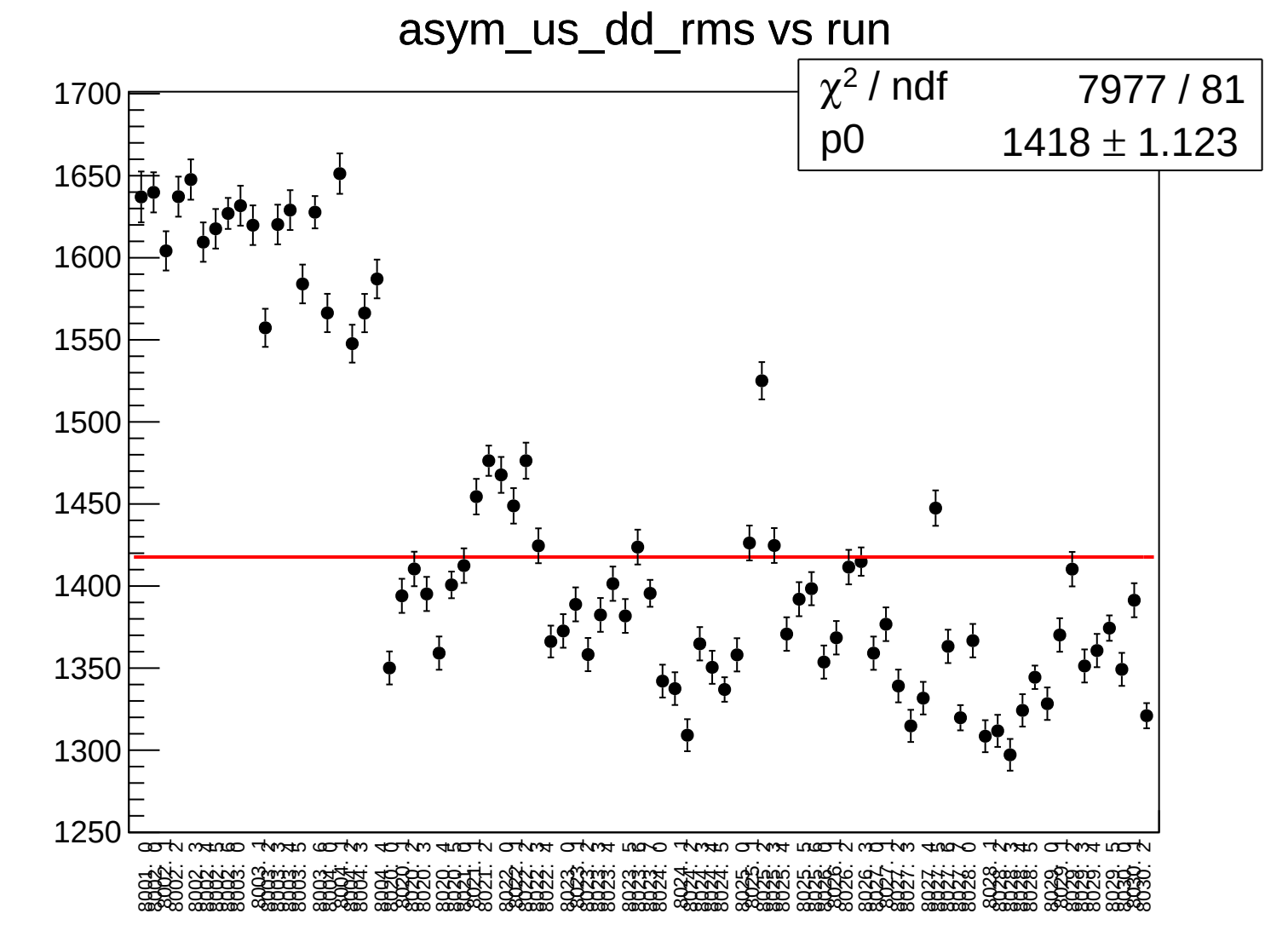

asym_us_dd_correction_mean vs run
χ² / ndf 61.66 / 81
p0 1815 ± 2175
pull
Entries 82
Mean −283.4
Std Dev 335.5

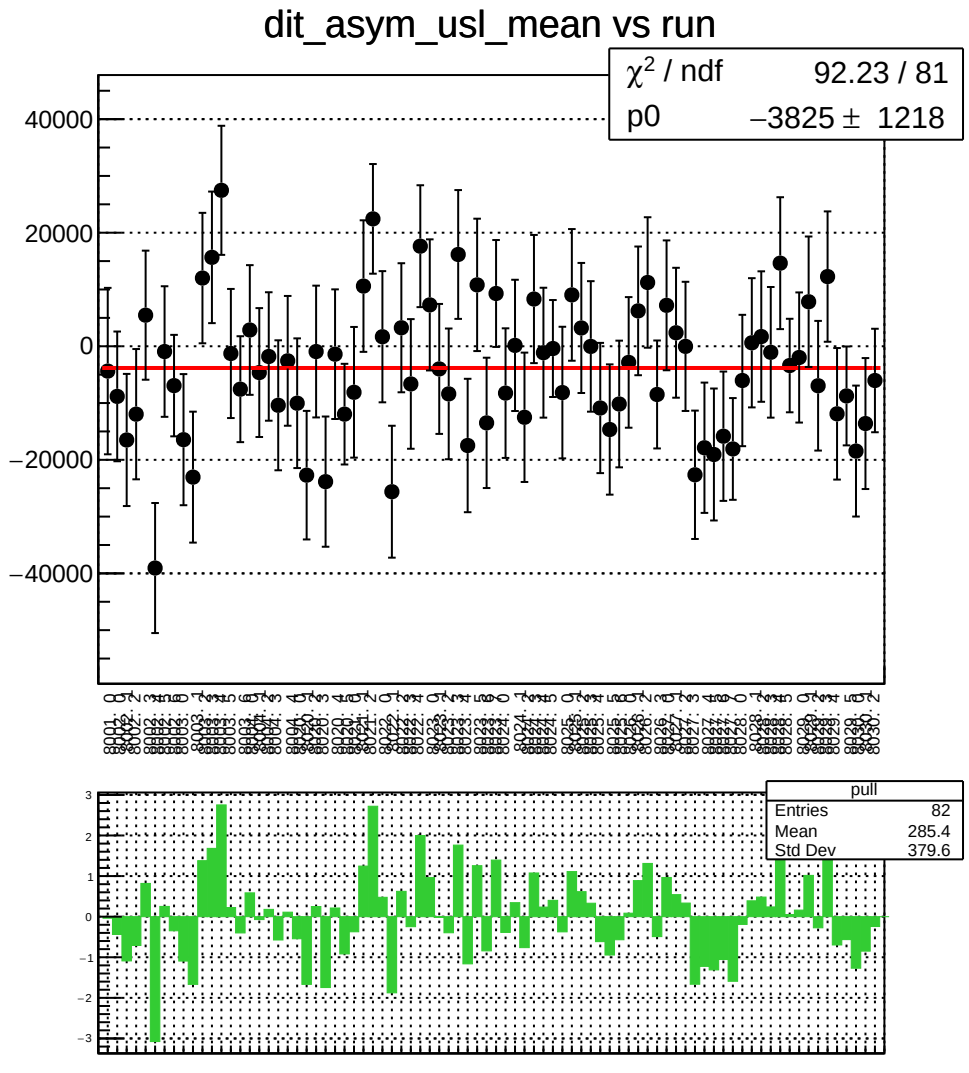

pull1D
Entries 82
Mean 0.007179
Std Dev 0.8671

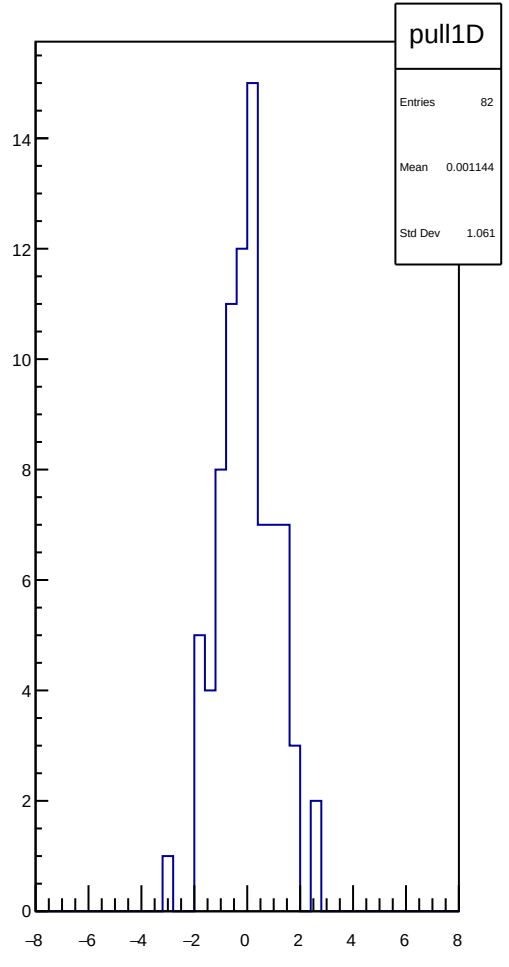

asym_us_dd_correction_rms vs run
χ² / ndf 2167 / 81
p0 1945 ± 1.538
2150
2100
2050
2000
1950
1900
1850
1800

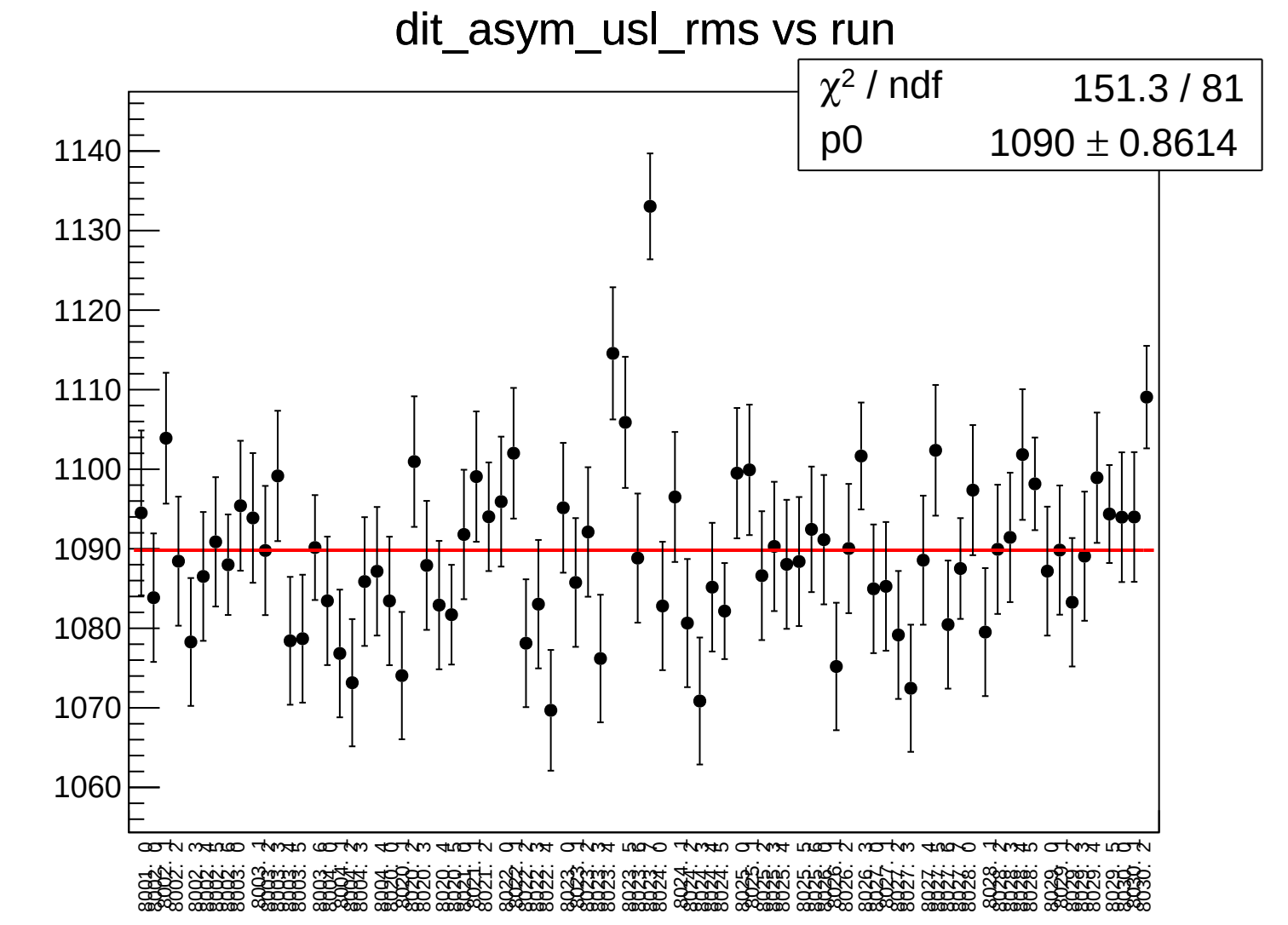

asym_us_dd_mean vs run
χ² / ndf 66.75 / 81
p0 −1301 ± 1589
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −97.44
Std Dev 160.5
2
1
0
−1
−2

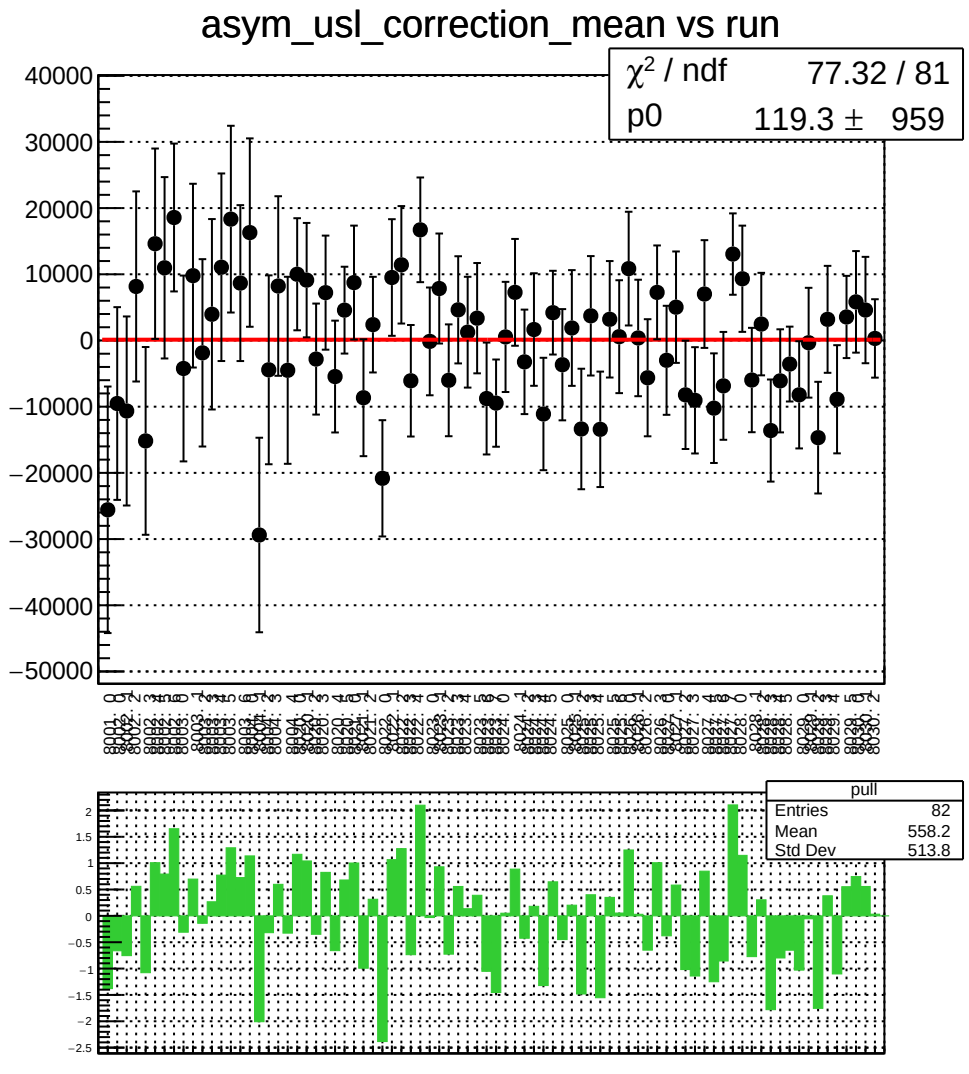

pull1D
Entries 82
Mean 0.01203
Std Dev 0.9022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

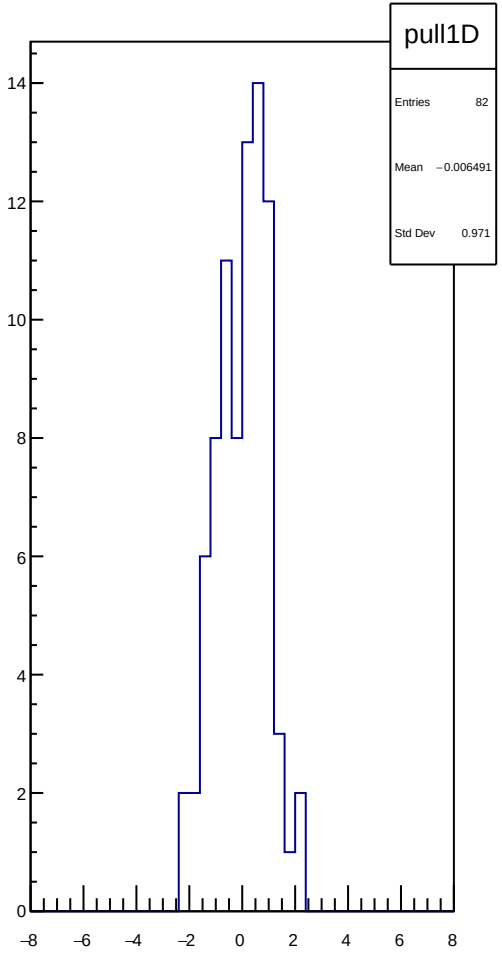

asym_us_dd_rms vs run
χ² / ndf 7977 / 81
p0 1418 ± 1.123
1700
1650
1600
1550
1500
1450
1400
1350
1300
1250

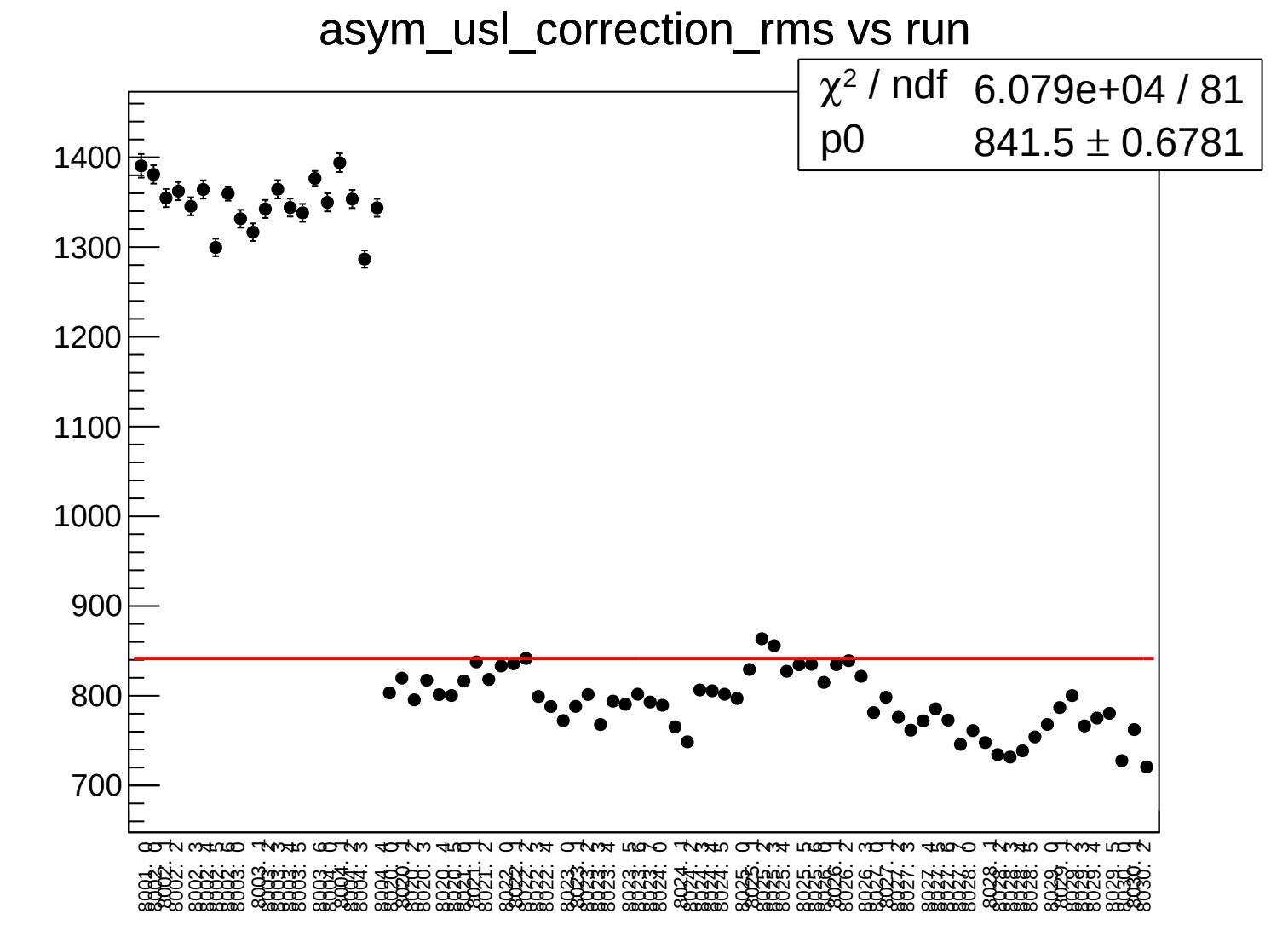

dit_asym_usl_mean vs run
χ² / ndf 92.23 / 81
p0 −3825 ± 1218
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 285.4
Std Dev 379.6
3
2
1
0
−1
−2
−3

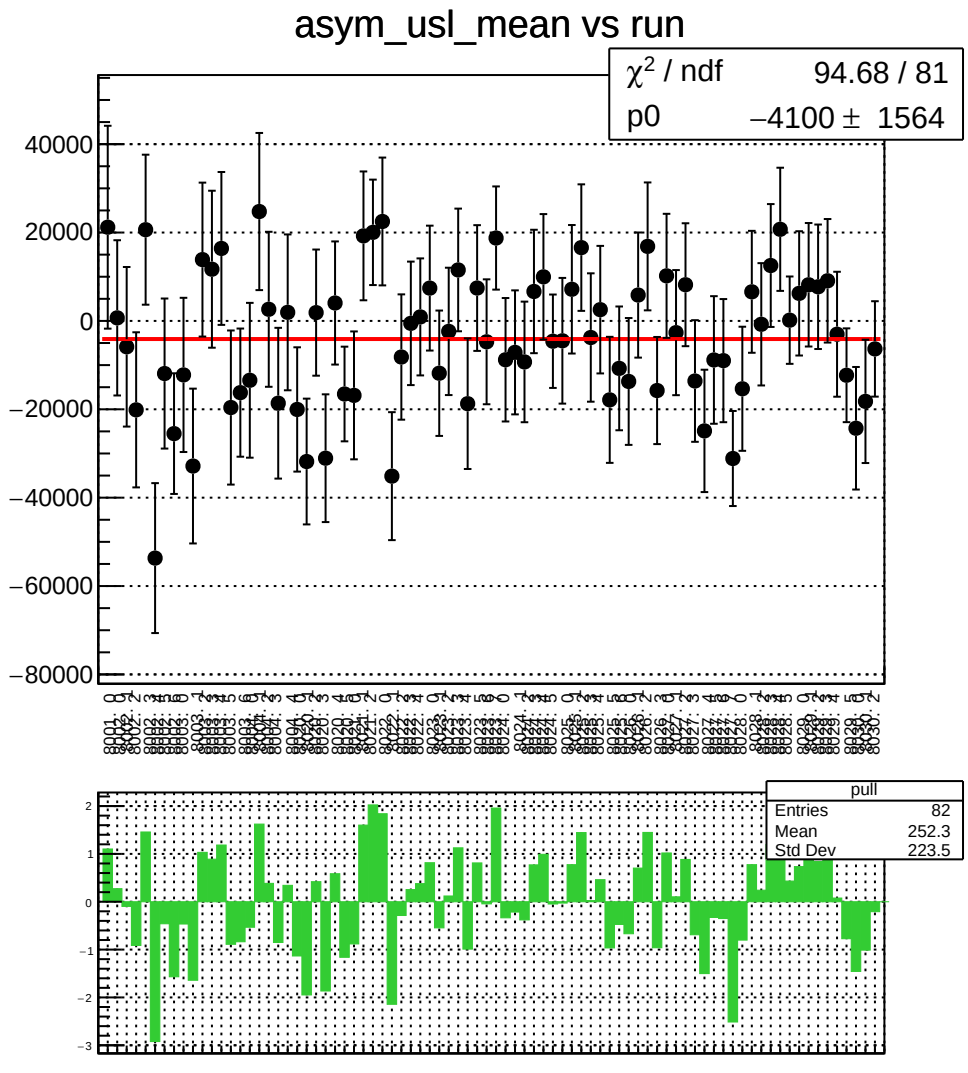

pull1D
Entries 82
Mean 0.001144
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

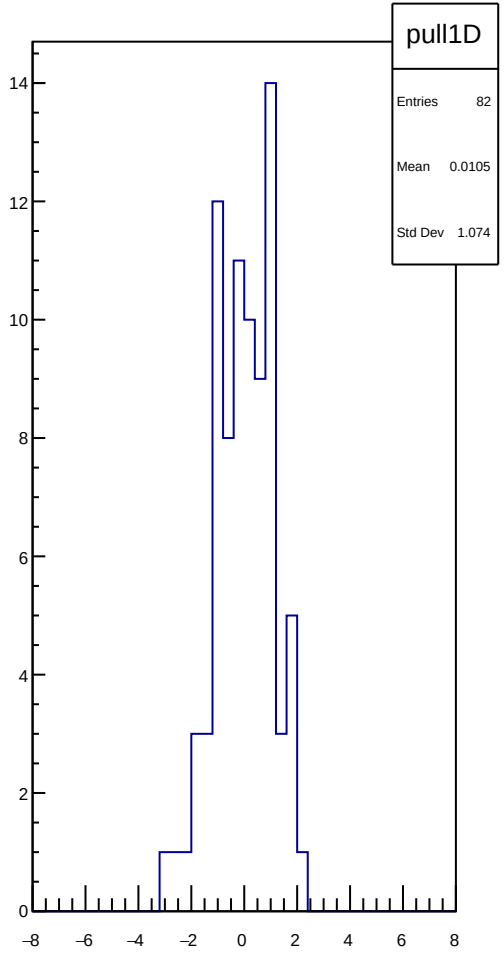

dit_asym_usl_rms vs run
χ² / ndf 151.3 / 81
p0 1090 ± 0.8614
1140
1130
1120
1110
1100
1090
1080
1070
1060

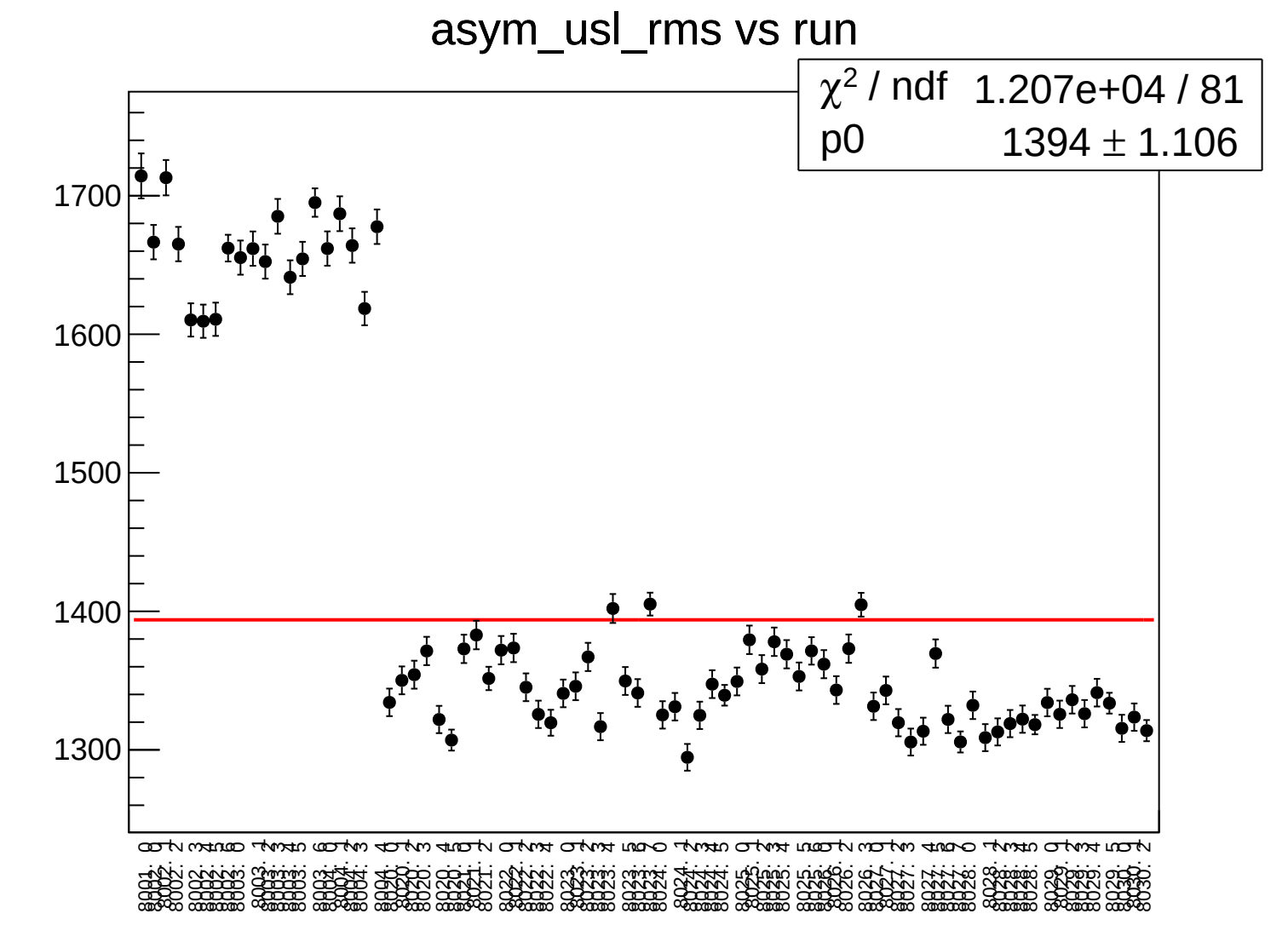

asym_usl_correction_mean vs run
χ² / ndf 77.32 / 81
p0 119.3 ± 959
pull
Entries 82
Mean 558.2
Std Dev 513.8

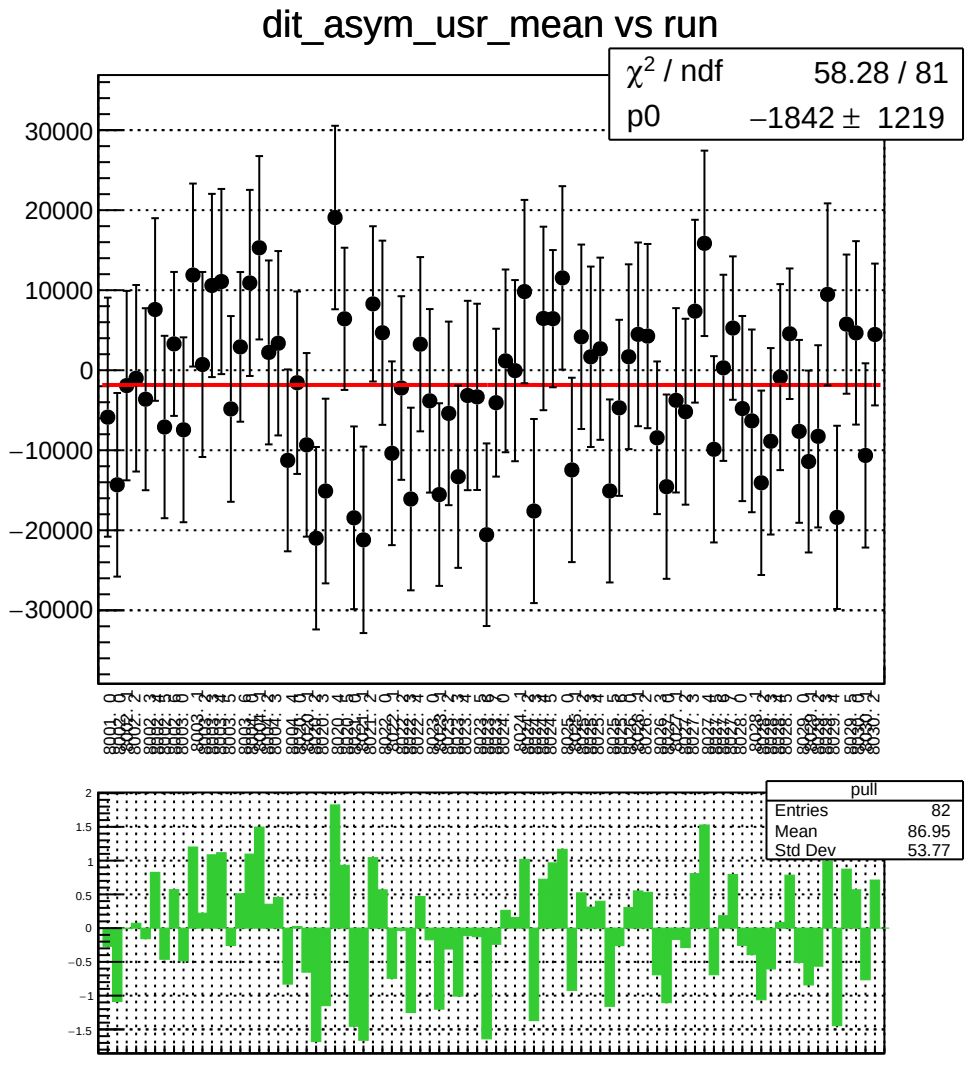

pull1D
Entries 82
Mean −0.006491
Std Dev 0.971

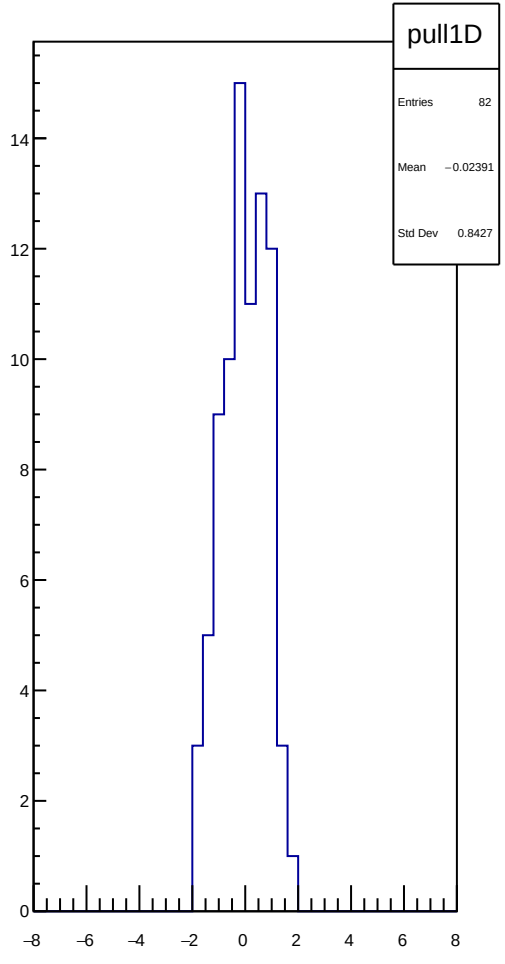

asym_usl_correction_rms vs run
χ² / ndf 6.079e+04 / 81
p0 841.5 ± 0.6781
1400
1300
1200
1100
1000
900
800
700

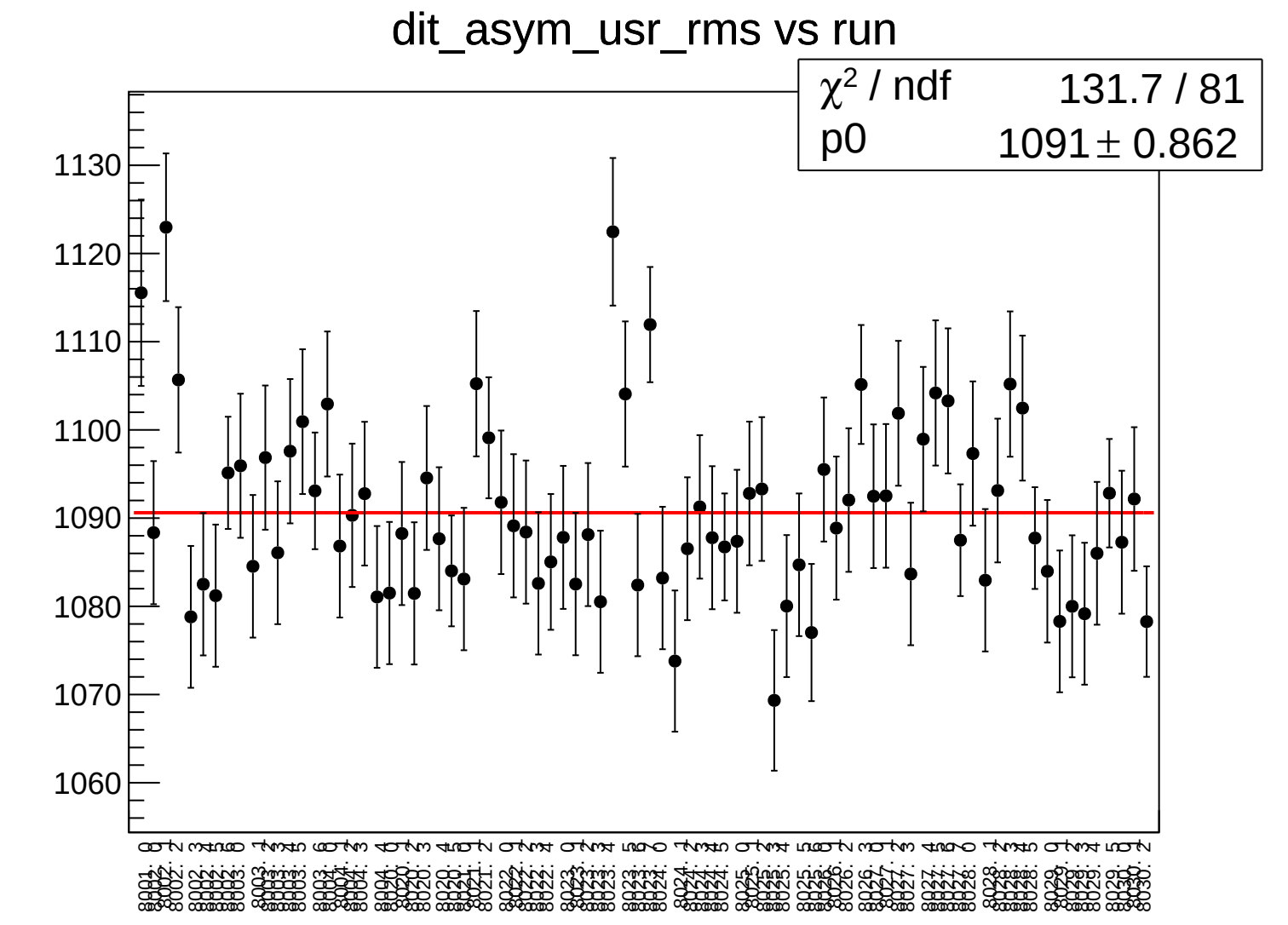

asym_usl_mean vs run
χ² / ndf 94.68 / 81
p0 −4100 ± 1564
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 252.3
Std Dev 223.5
2
1
0
−1
−2
−3

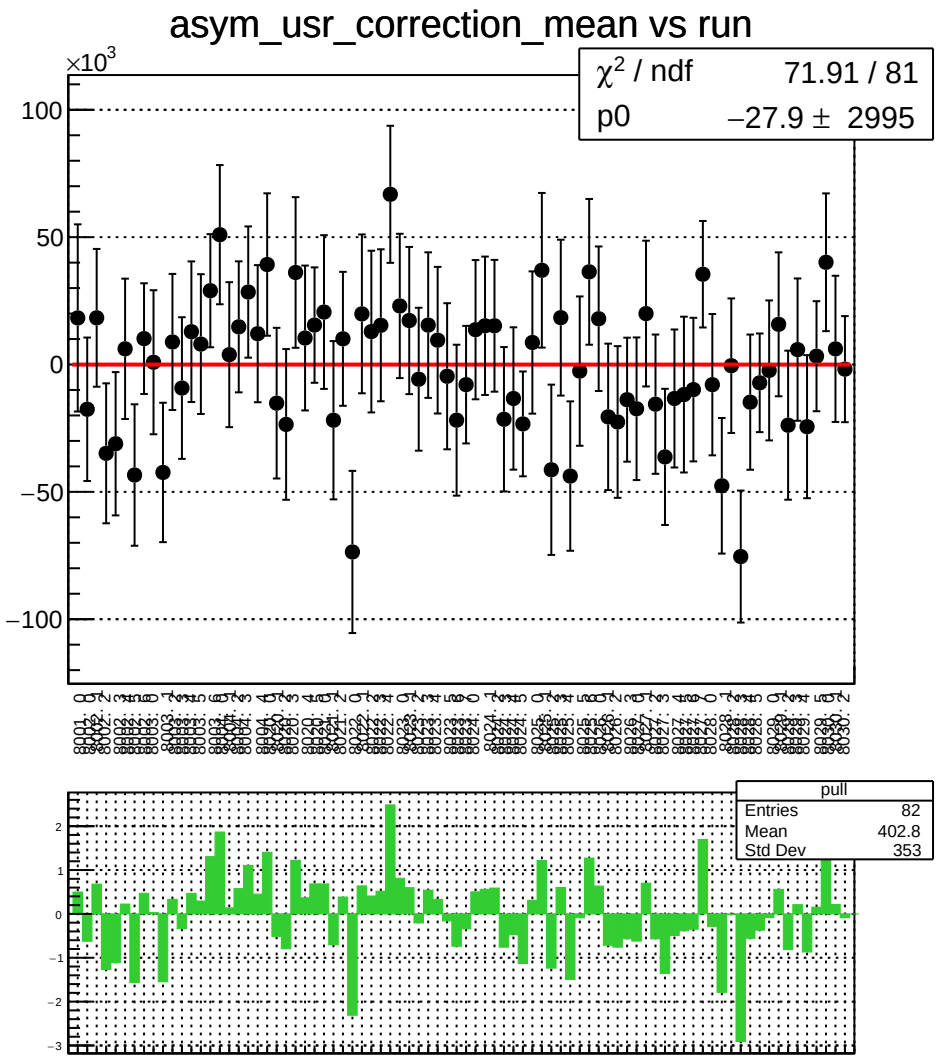

pull1D
Entries 82
Mean 0.0105
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

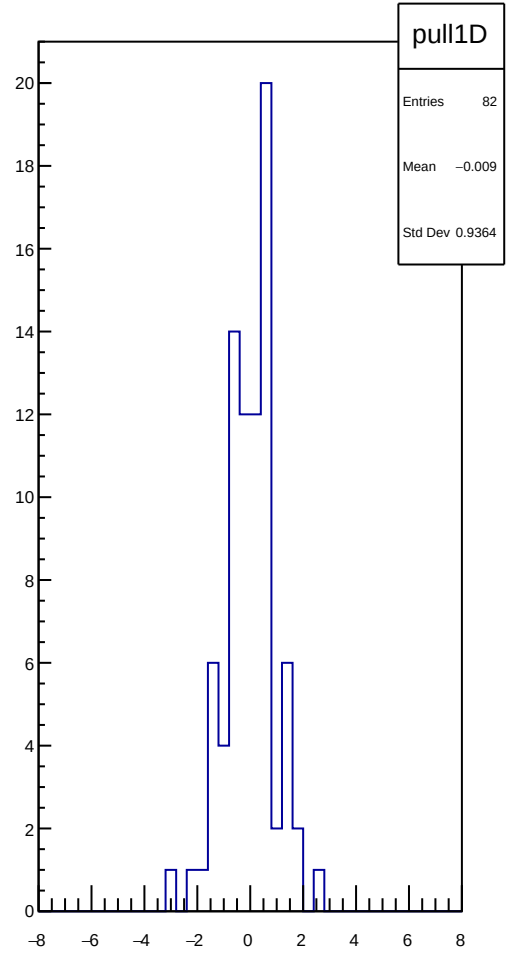

asym_usl_rms vs run
χ² / ndf 1.207e+04 / 81
p0 1394 ± 1.106
1700
1600
1500
1400
1300

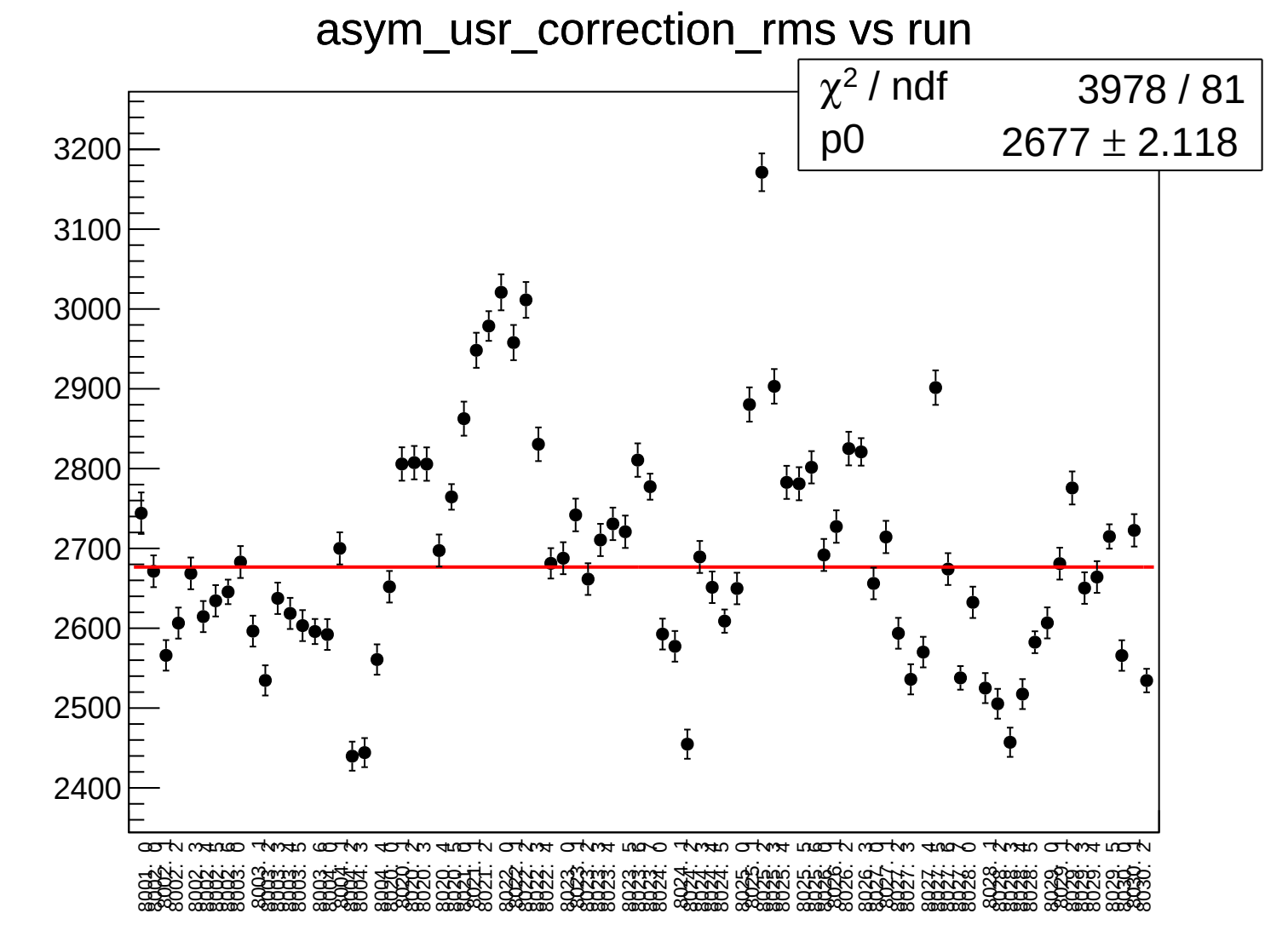

dit_asym_usr_mean vs run
χ² / ndf 58.28 / 81
p0 −1842 ± 1219
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 86.95
Std Dev 53.77
2
1.5
1
0.5
0
−0.5
−1
−1.5

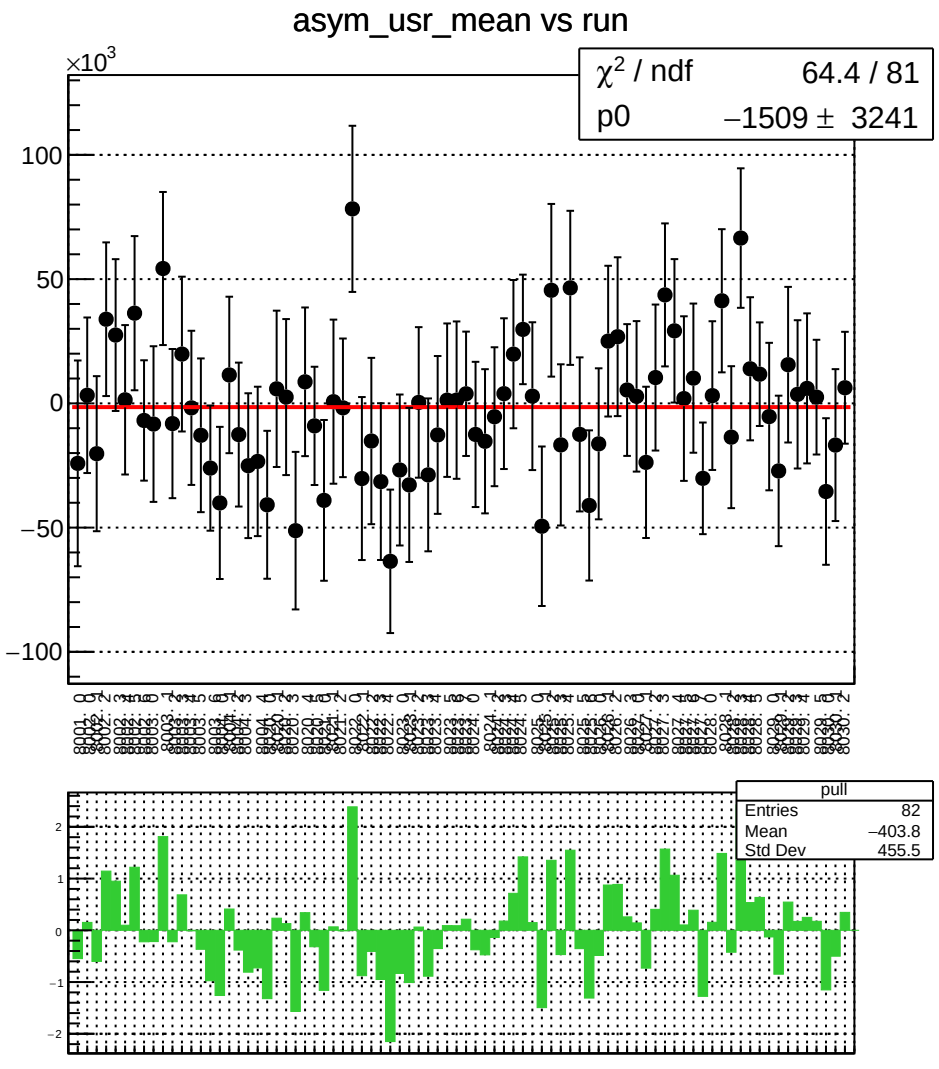

pull1D
Entries 82
Mean −0.02391
Std Dev 0.8427
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

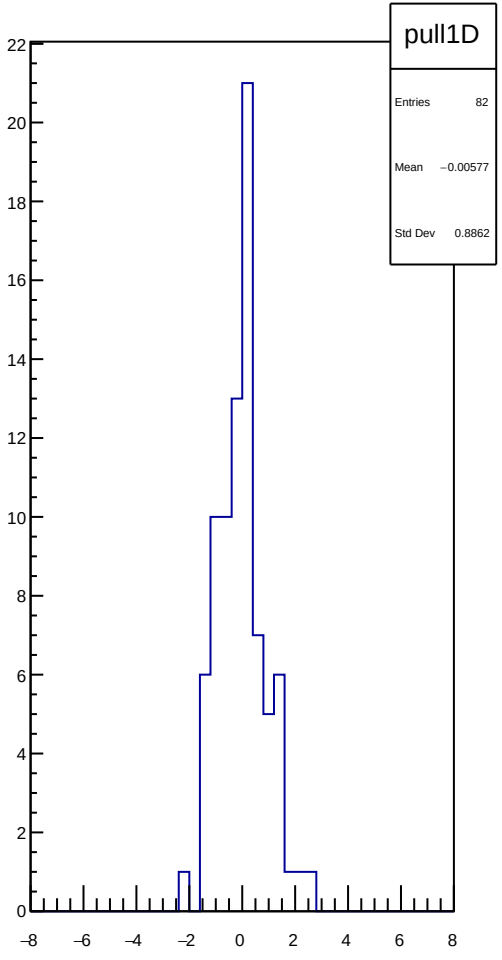

dit_asym_usr_rms vs run
χ² / ndf 131.7 / 81
p0 1091 ± 0.862
1130
1120
1110
1100
1090
1080
1070
1060

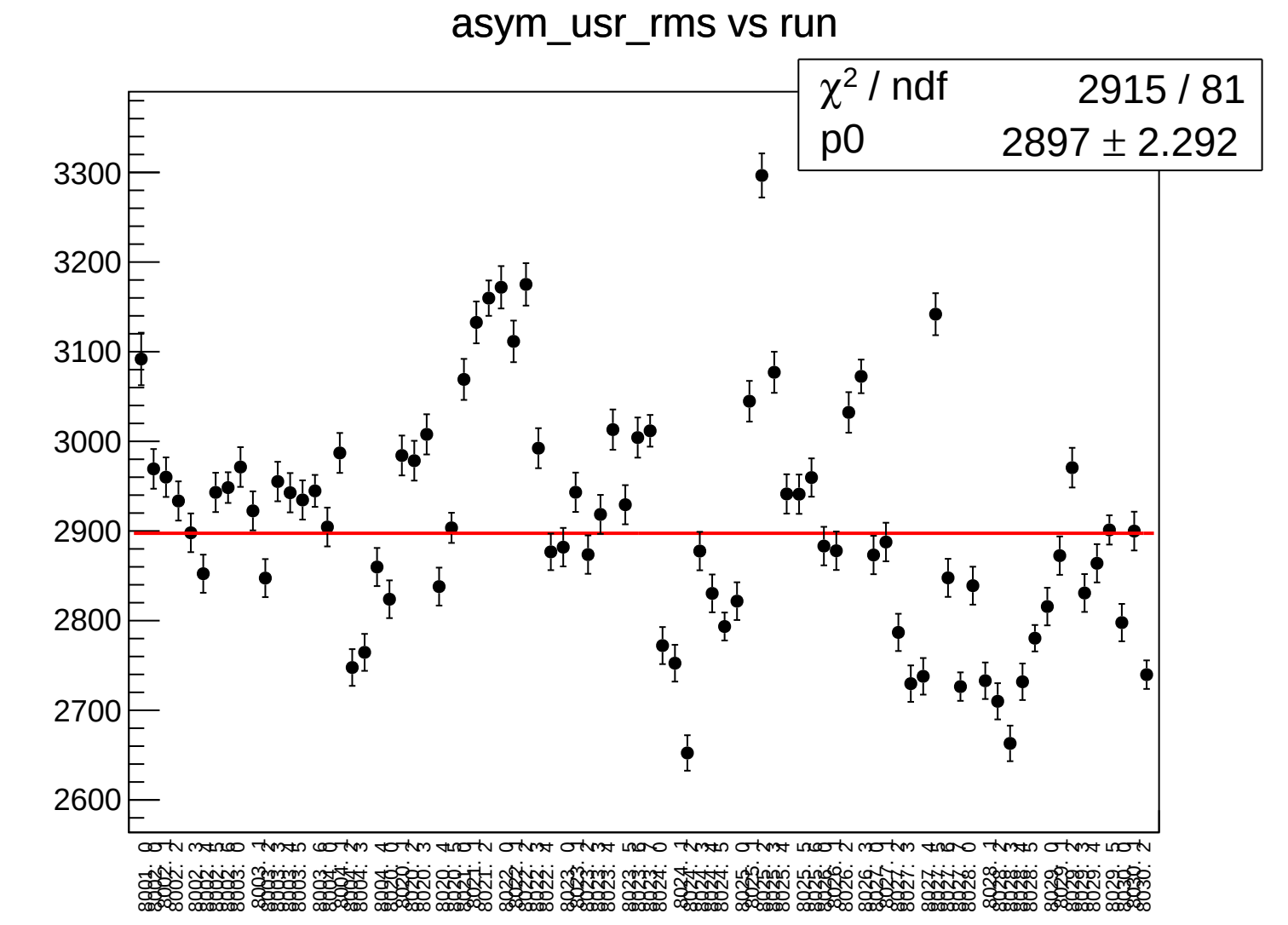

asym_usr_correction_mean vs run
×10^3
χ² / ndf 71.91 / 81
p0 −27.9 ± 2995
100
50
0
−50
−100
pull
Entries 82
Mean 402.8
Std Dev 353
2
1
0
−1
−2
−3

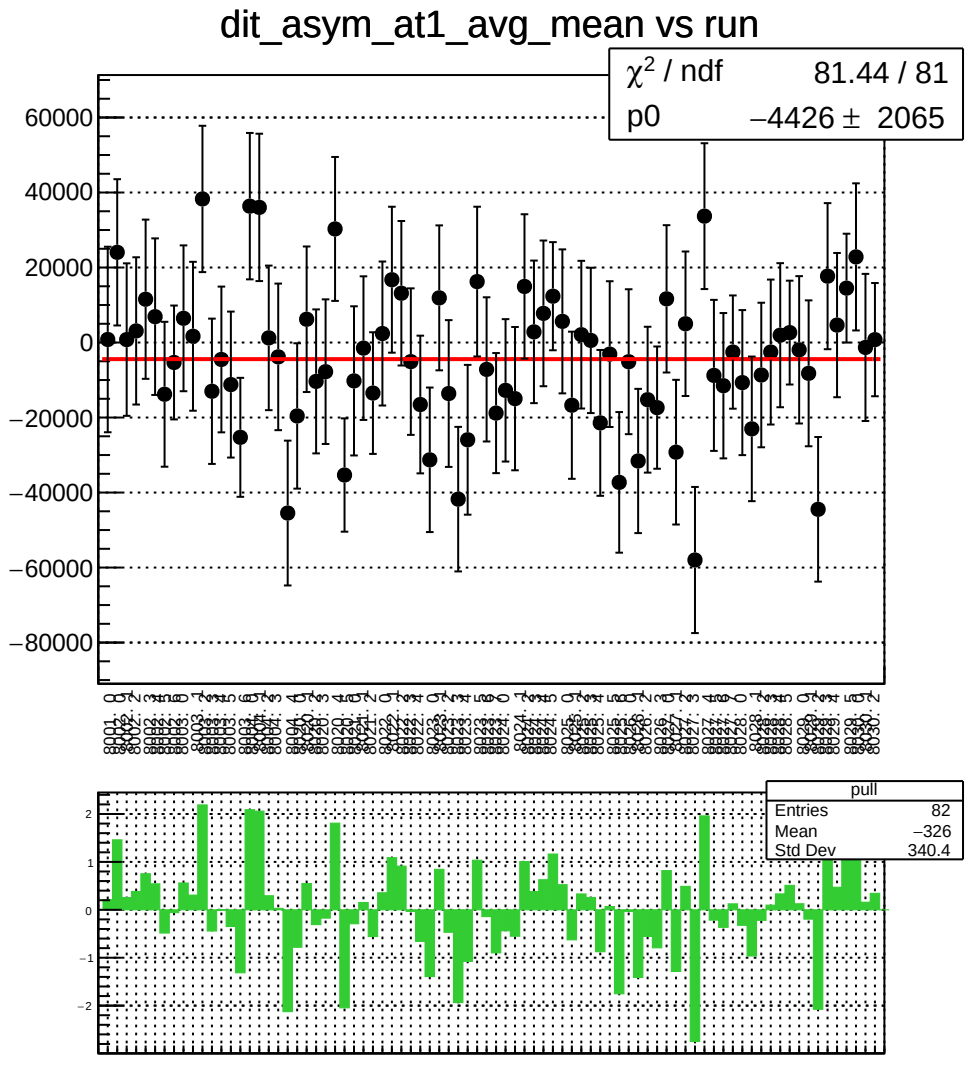

pull1D
Entries 82
Mean −0.009
Std Dev 0.9364
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

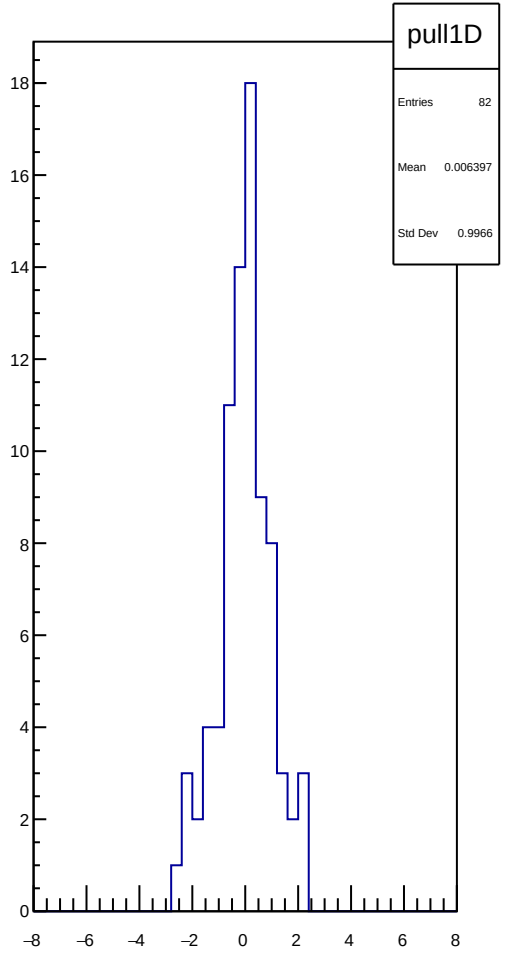

asym_usr_correction_rms vs run
χ² / ndf 3978 / 81
p0 2677 ± 2.118
3200
3100
3000
2900
2800
2700
2600
2500
2400

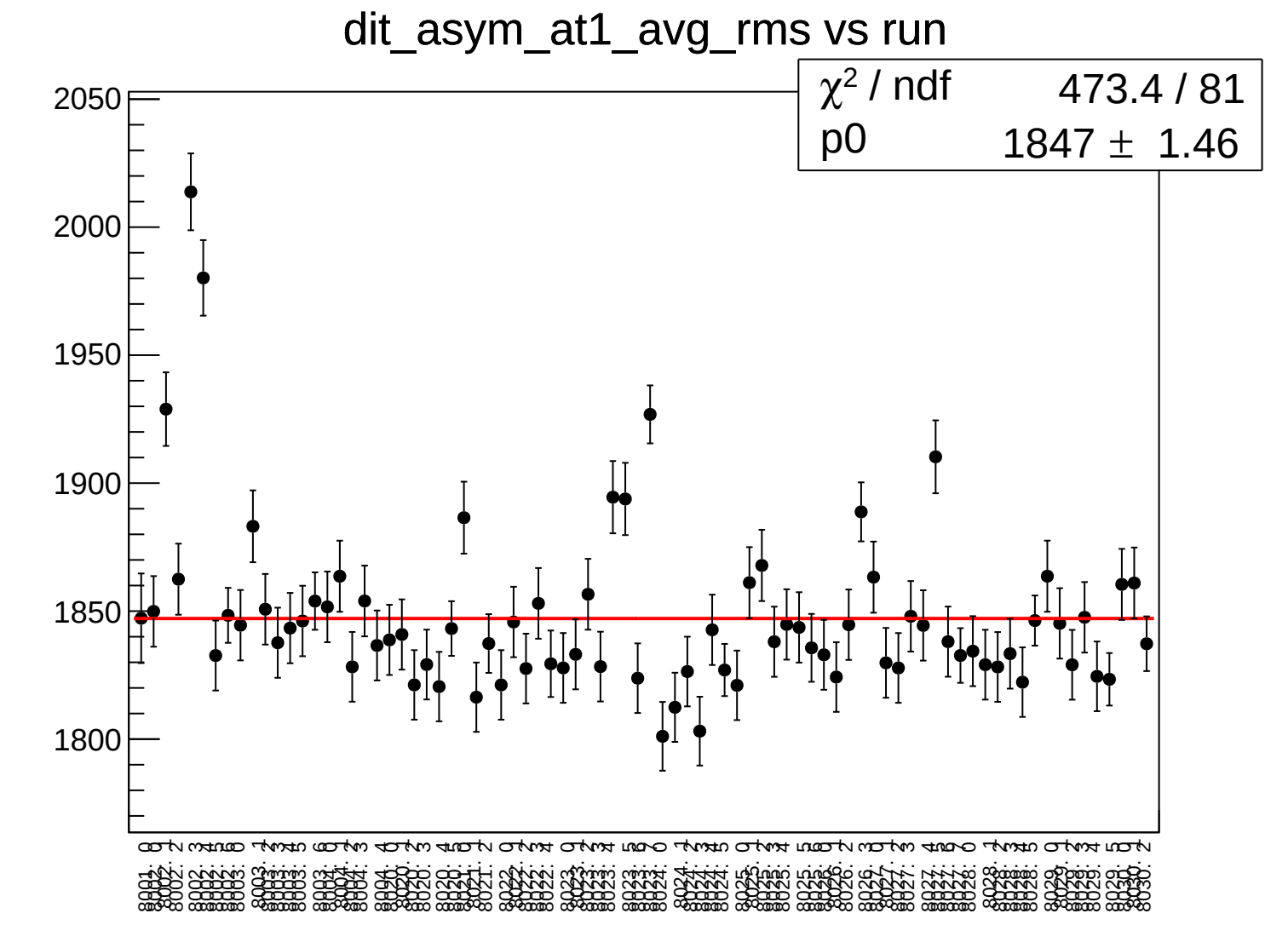

asym_usr_mean vs run
χ² / ndf 64.4 / 81
p0 −1509 ± 3241
×10³
100
50
0
−50
−100
pull
Entries 82
Mean −403.8
Std Dev 455.5
2
1
0
−1
−2

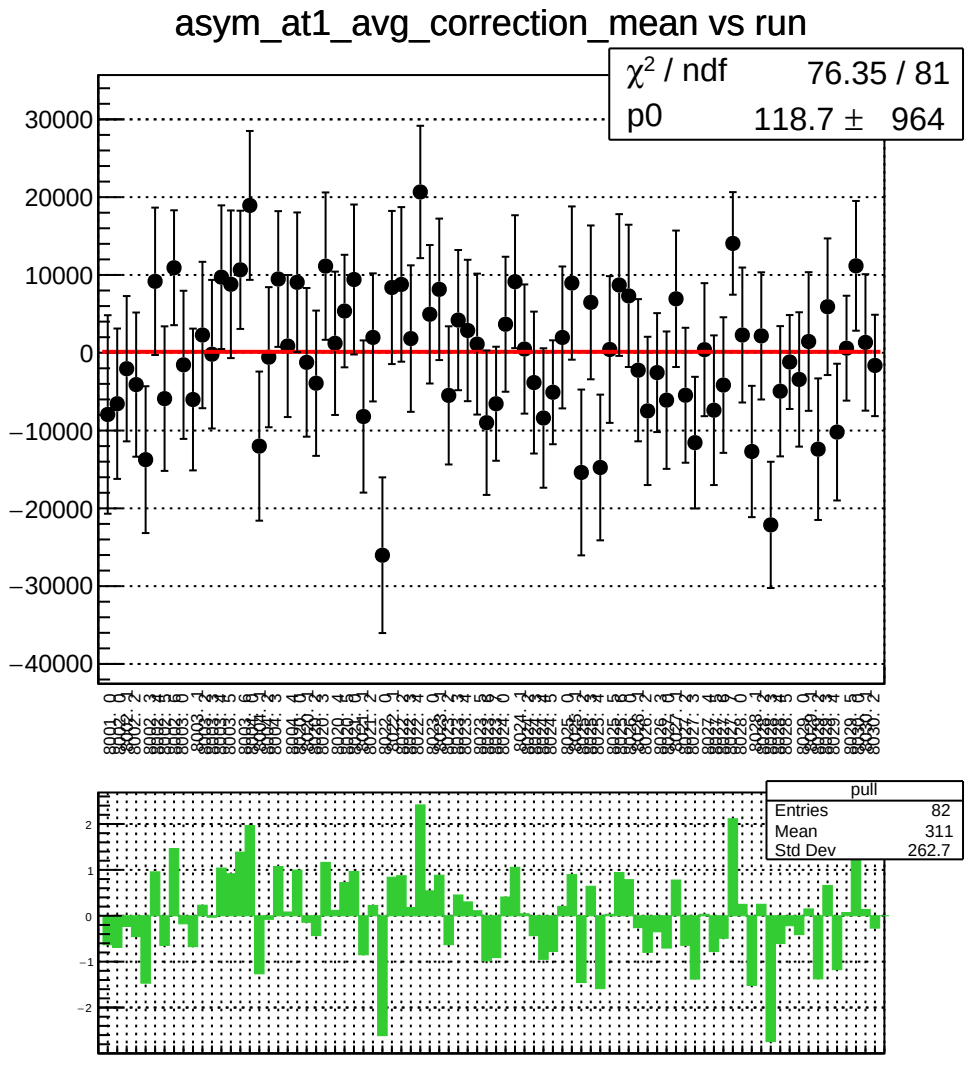

pull1D
Entries 82
Mean −0.00577
Std Dev 0.8862
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

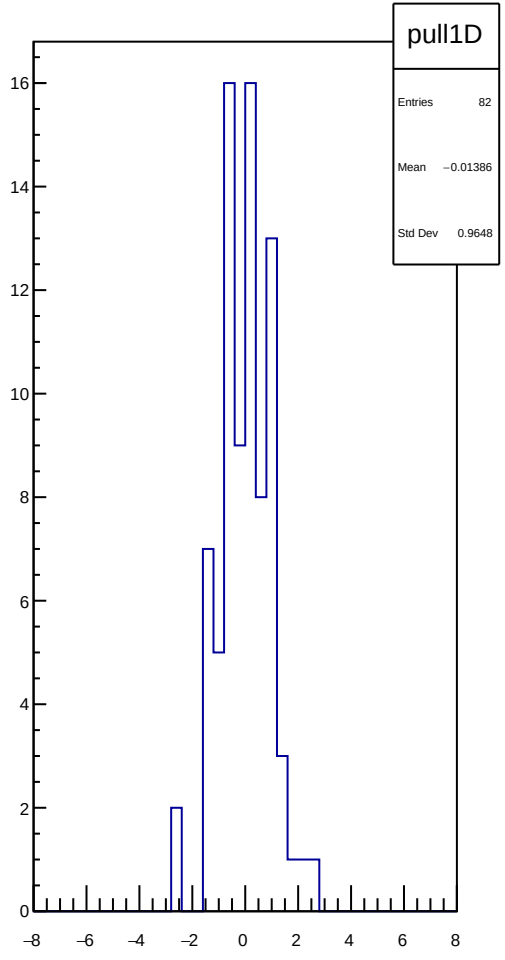

asym_usr_rms vs run
χ² / ndf 2915 / 81
p0 2897 ± 2.292
3300
3200
3100
3000
2900
2800
2700
2600

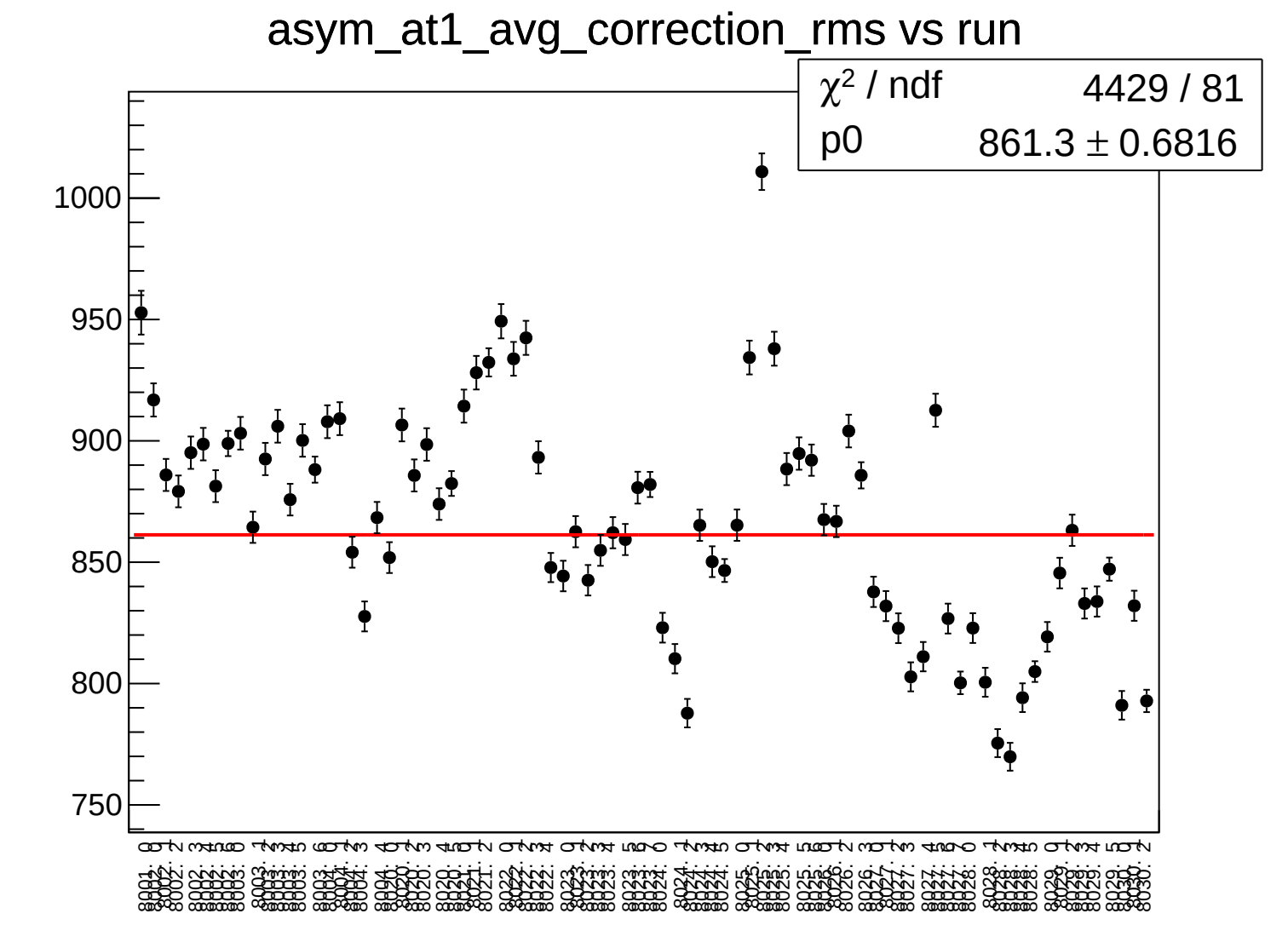

dit_asym_at1_avg_mean vs run
χ² / ndf 81.44 / 81
p0 −4426 ± 2065
pull
Entries 82
Mean −326
Std Dev 340.4

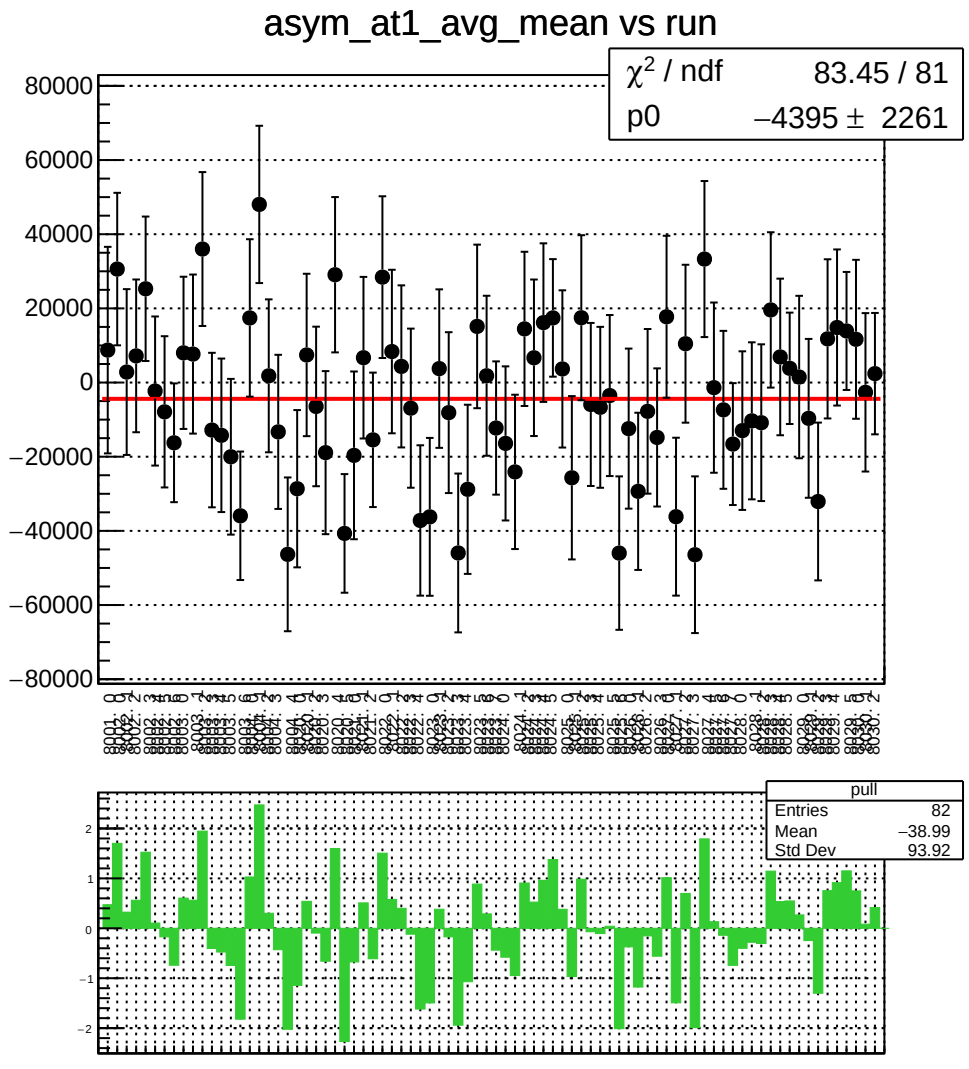

pull1D
Entries 82
Mean 0.006397
Std Dev 0.9966

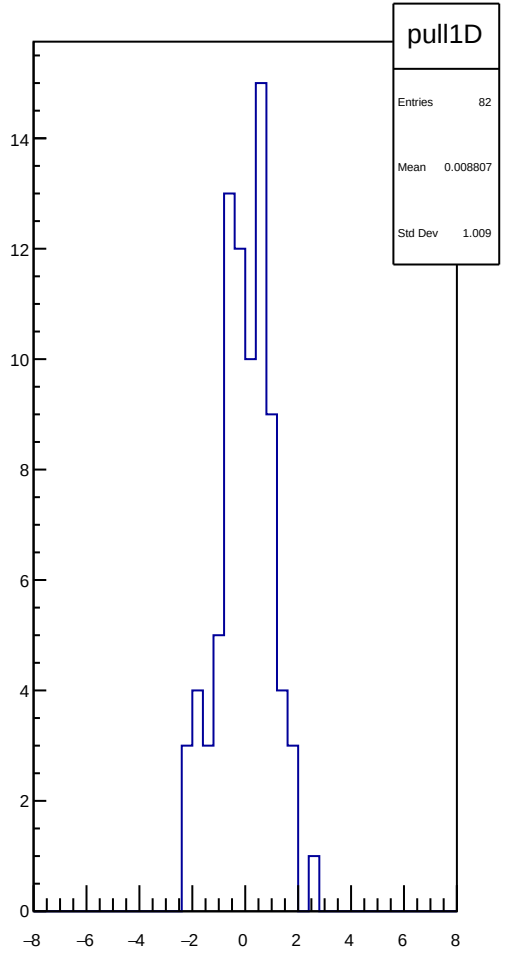

dit_asym_at1_avg_rms vs run
χ^2 / ndf 473.4 / 81
p0 1847 ± 1.46
2050
2000
1950
1900
1850
1800

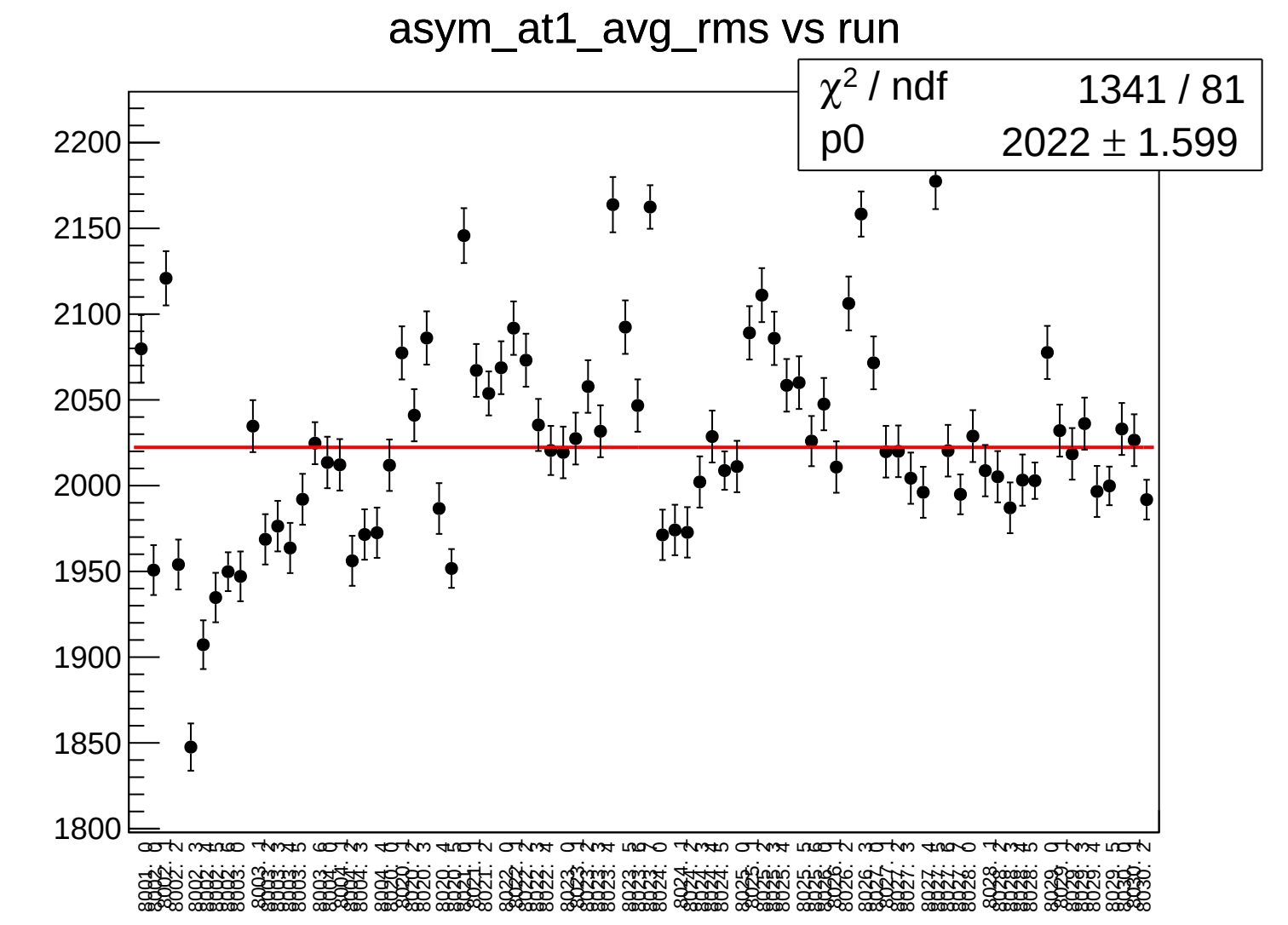

asym_at1_avg_correction_mean vs run
χ² / ndf 76.35 / 81
p0 118.7 ± 964
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean 311
Std Dev 262.7
2
1
0
−1
−2

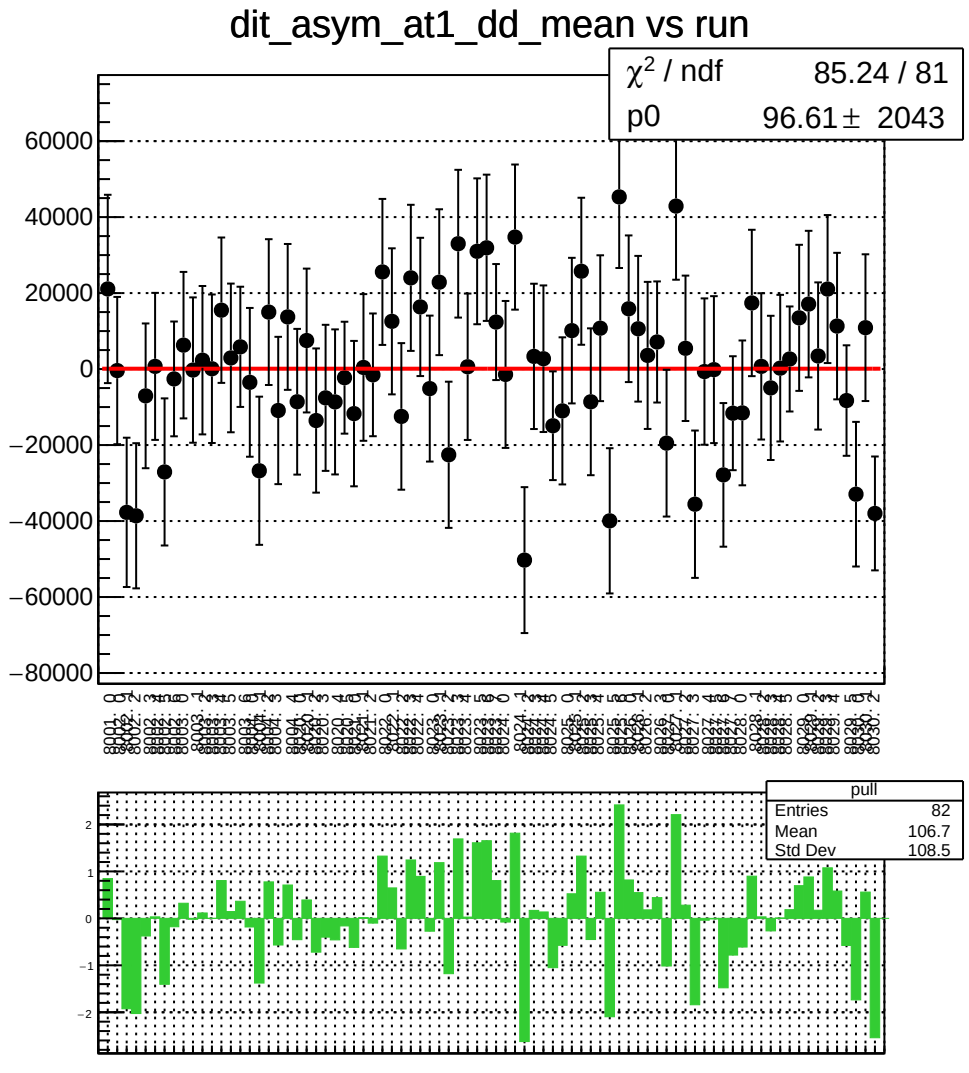

pull1D
Entries 82
Mean −0.01386
Std Dev 0.9648
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

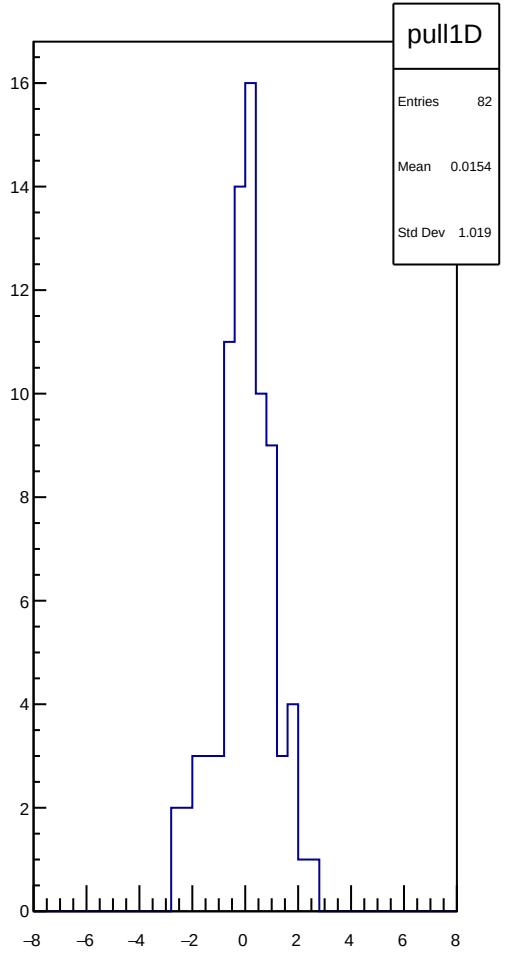

asym_at1_avg_correction_rms vs run
χ² / ndf 4429 / 81
p0 861.3 ± 0.6816
1000
950
900
850
800
750

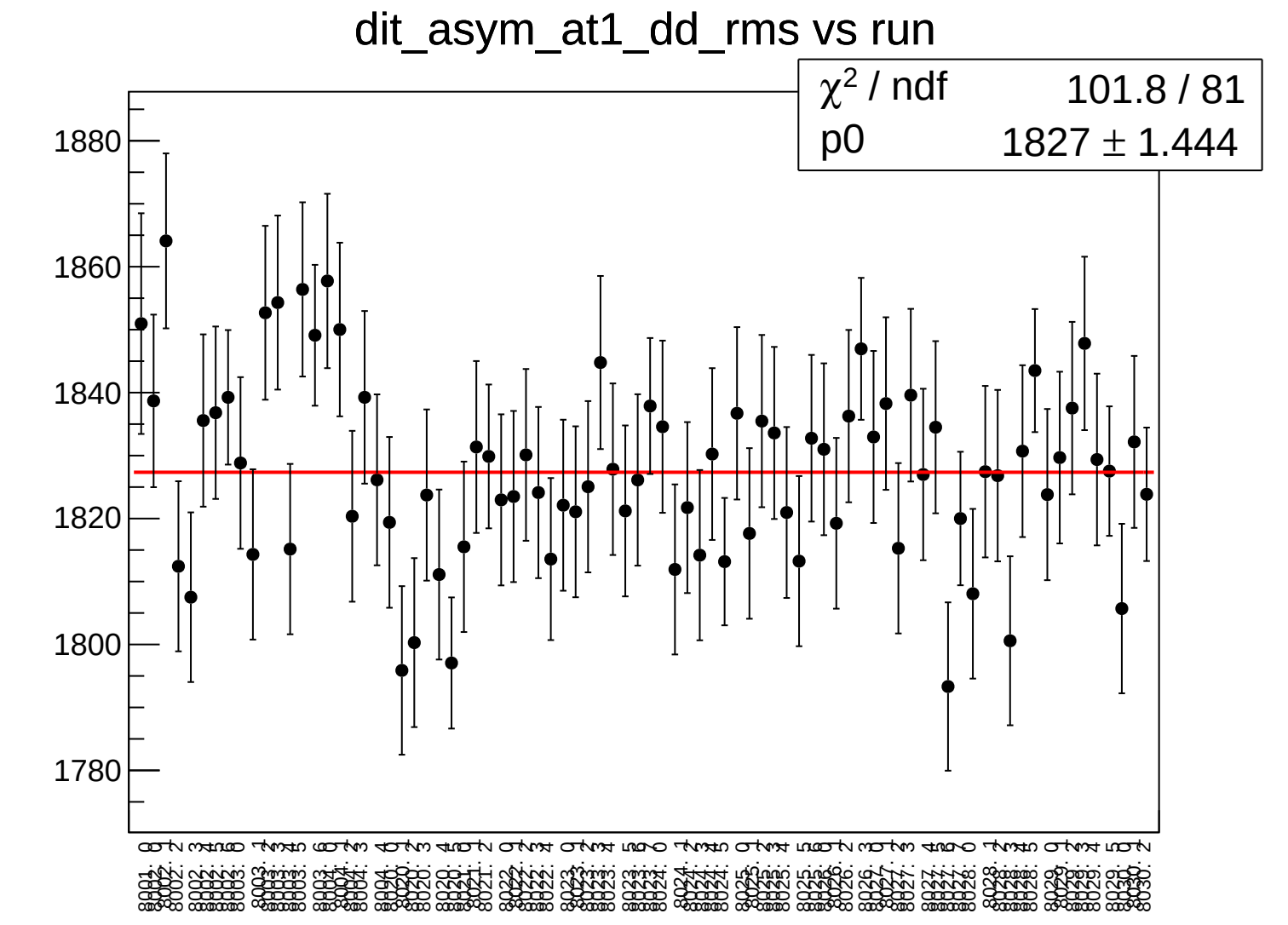

asym_at1_avg_mean vs run
χ² / ndf 83.45 / 81
p0 −4395 ± 2261
pull
Entries 82
Mean −38.99
Std Dev 93.92

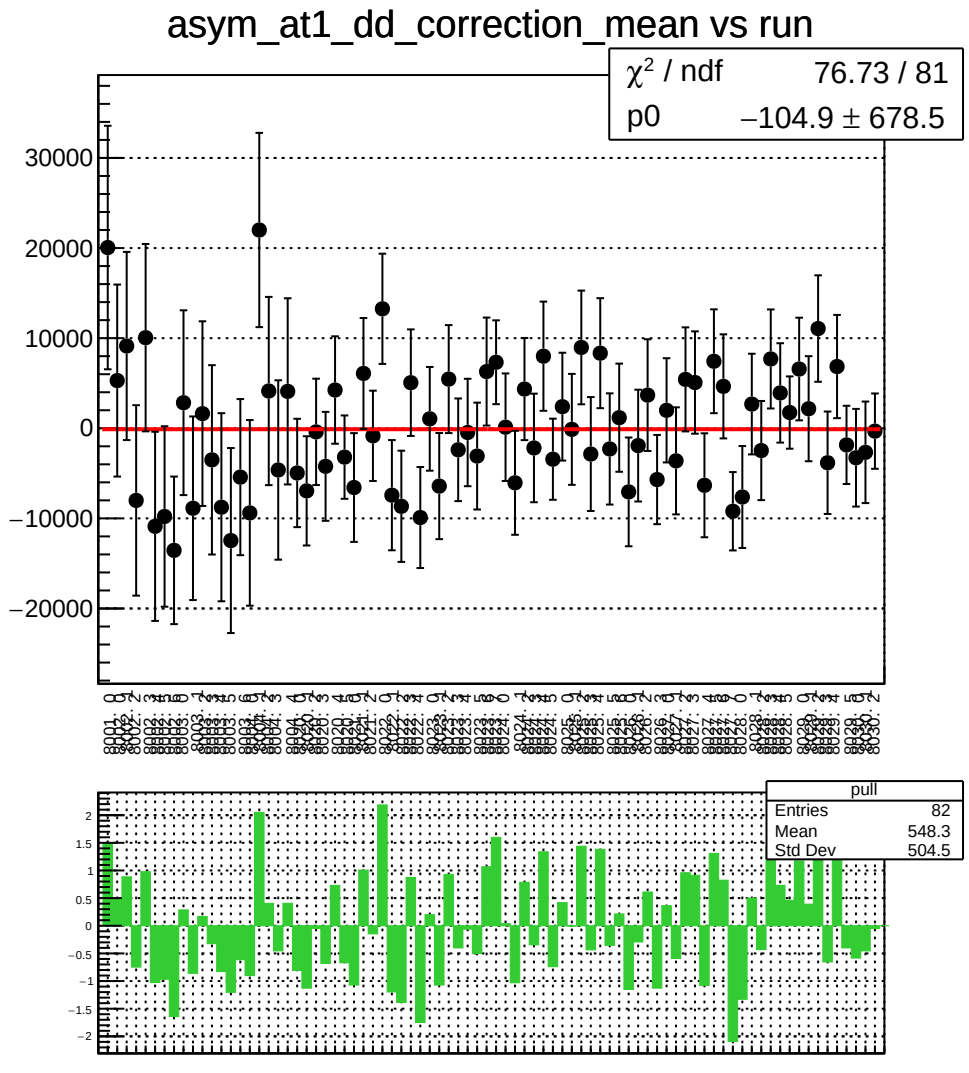

pull1D
Entries 82
Mean 0.008807
Std Dev 1.009

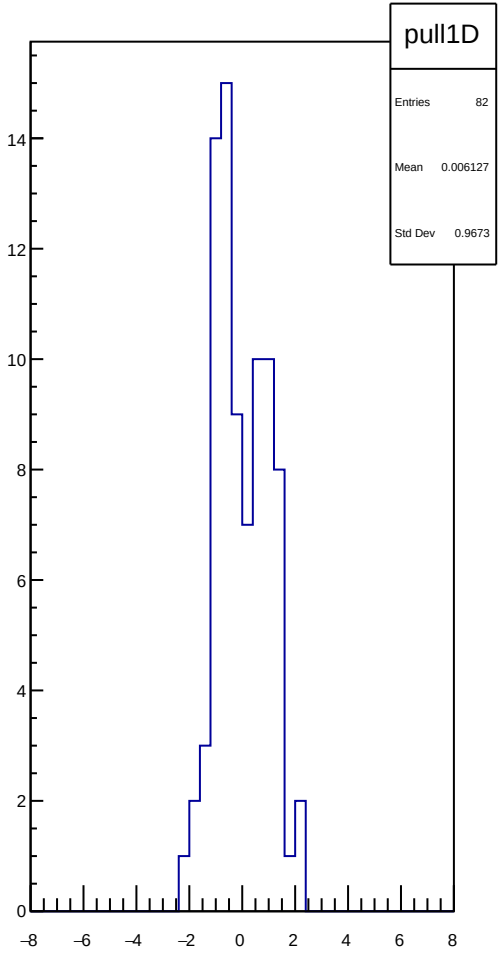

asym_at1_avg_rms vs run
χ² / ndf 1341 / 81
p0 2022 ± 1.599
2200
2150
2100
2050
2000
1950
1900
1850
1800

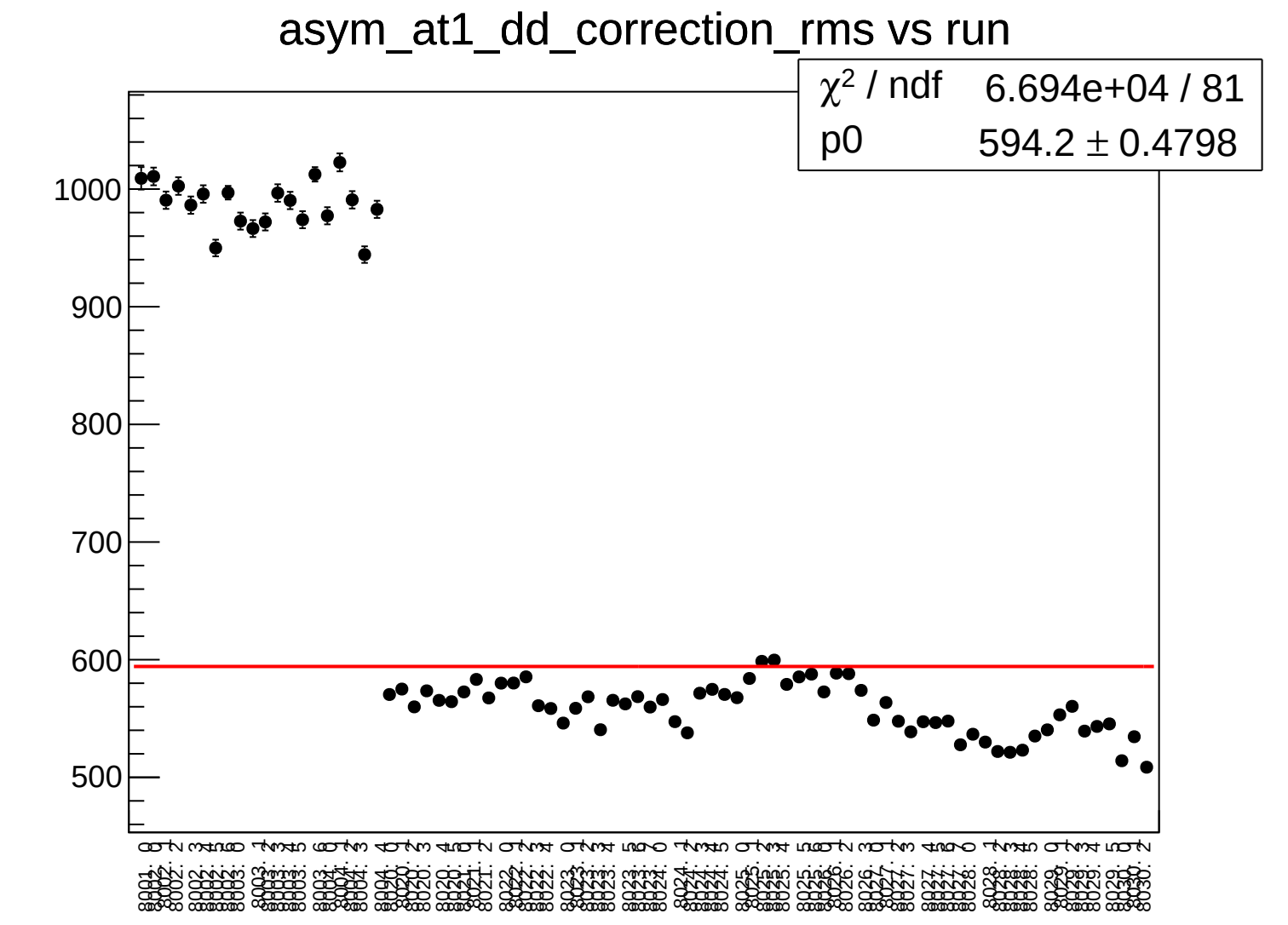

dit_asym_at1_dd_mean vs run
χ² / ndf 85.24 / 81
p0 96.61 ± 2043
pull
Entries 82
Mean 106.7
Std Dev 108.5

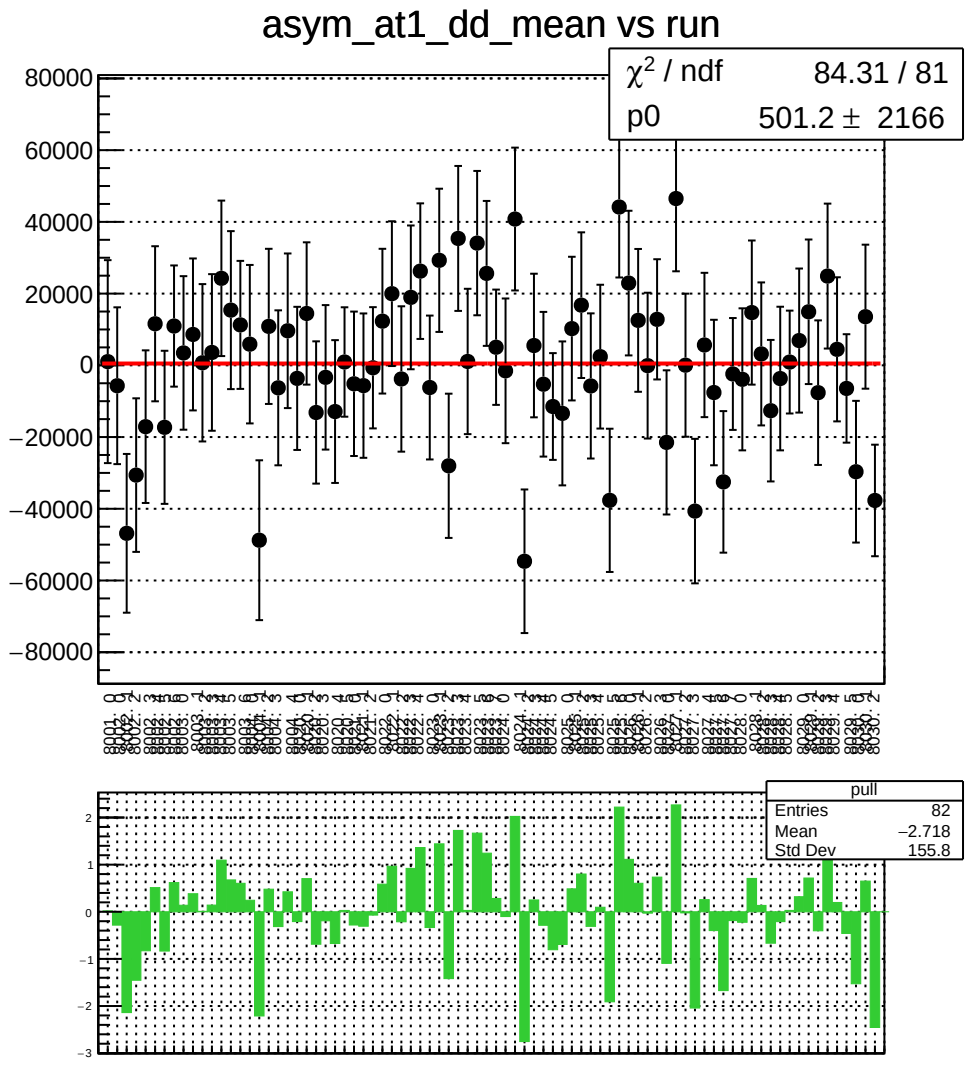

pull1D
Entries 82
Mean 0.0154
Std Dev 1.019

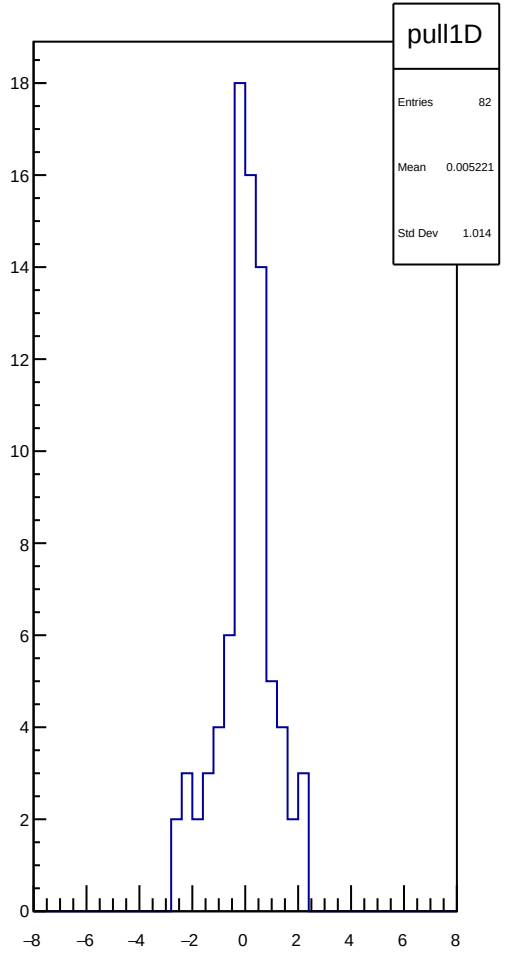

dit_asym_at1_dd_rms vs run
χ^2 / ndf 101.8 / 81
p0 1827 ± 1.444
1880
1860
1840
1820
1800
1780

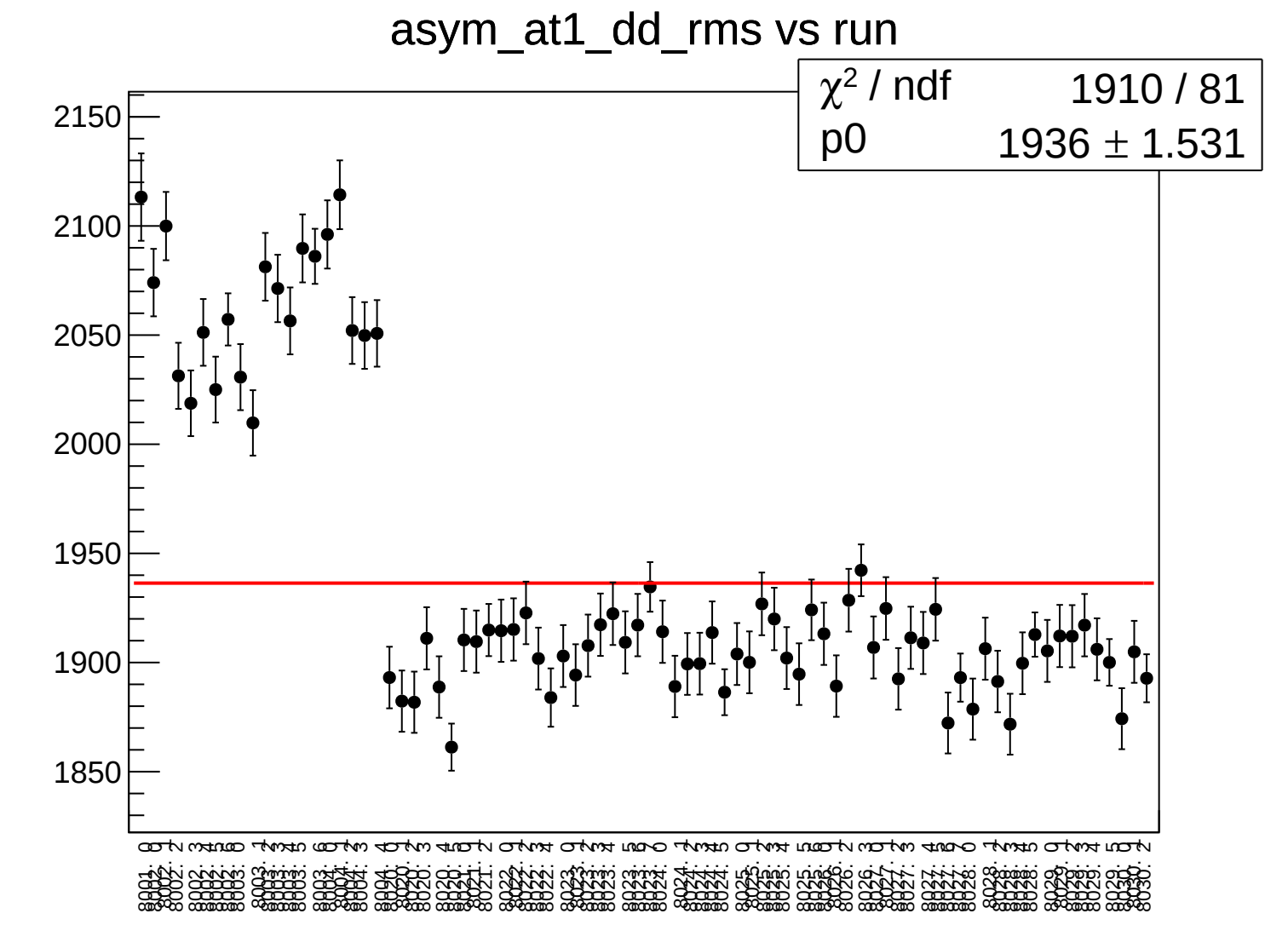

asym_at1_dd_correction_mean vs run
χ² / ndf 76.73 / 81
p0 −104.9 ± 678.5
30000
20000
10000
0
−10000
−20000
pull
Entries 82
Mean 548.3
Std Dev 504.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

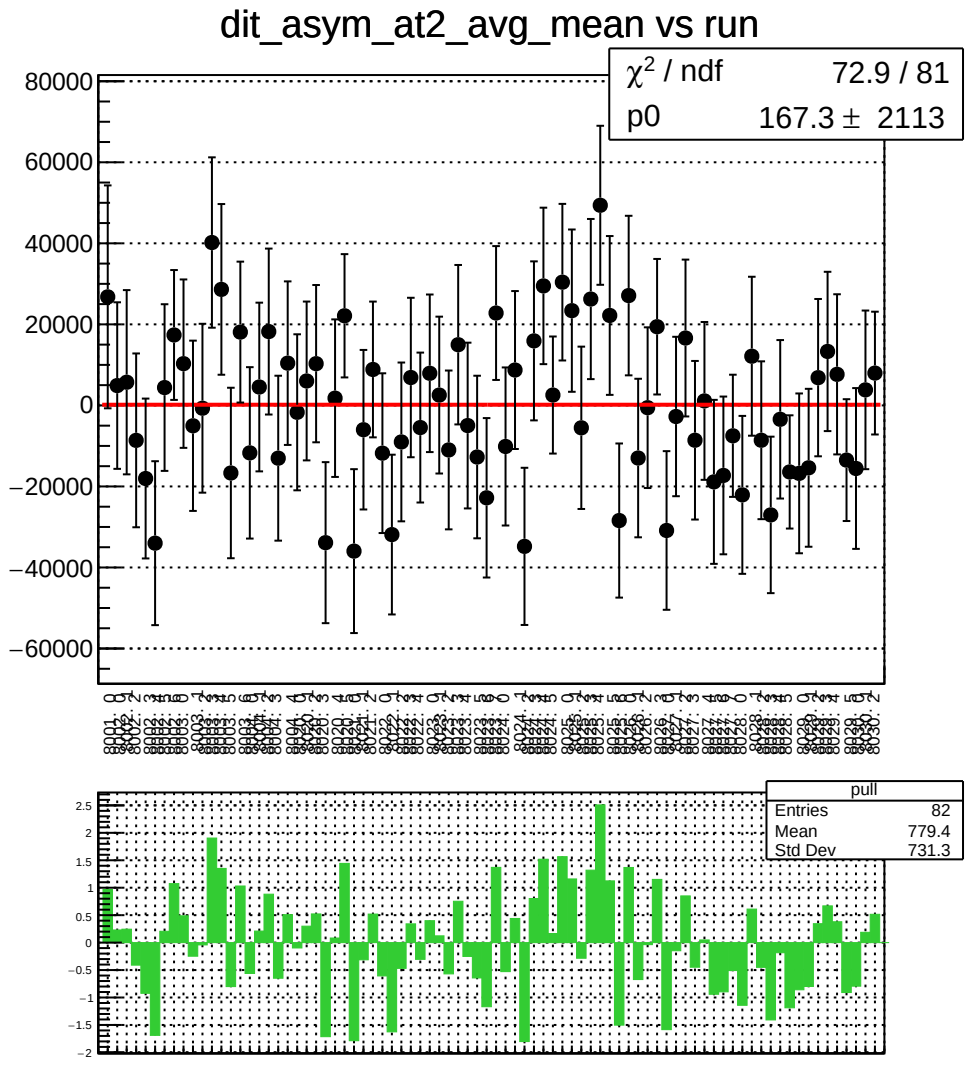

pull1D
Entries 82
Mean 0.006127
Std Dev 0.9673
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

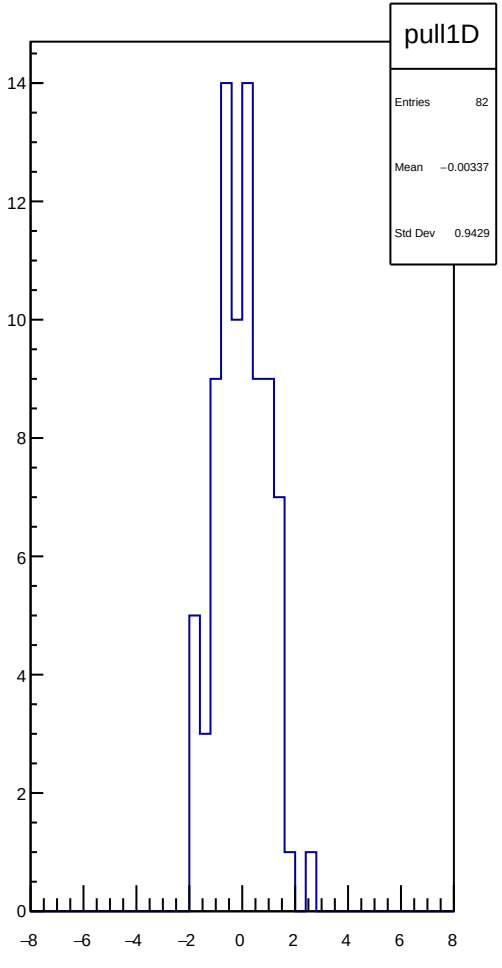

asym_at1_dd_correction_rms vs run
χ^2 / ndf 6.694e+04 / 81
p0 594.2 ± 0.4798
1000
900
800
700
600
500

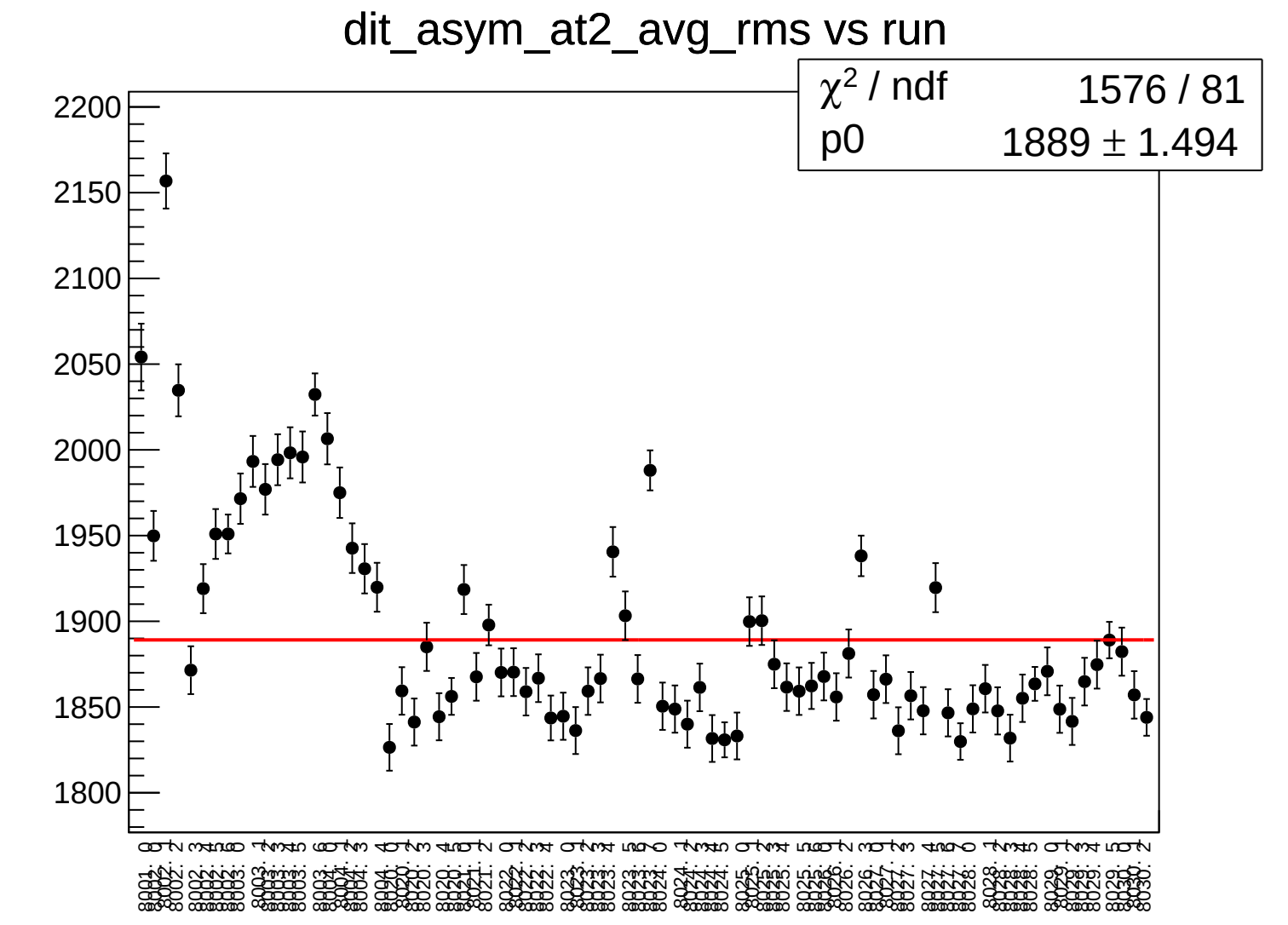

asym_at1_dd_mean vs run
χ² / ndf 84.31 / 81
p0 501.2 ± 2166
pull
Entries 82
Mean −2.718
Std Dev 155.8

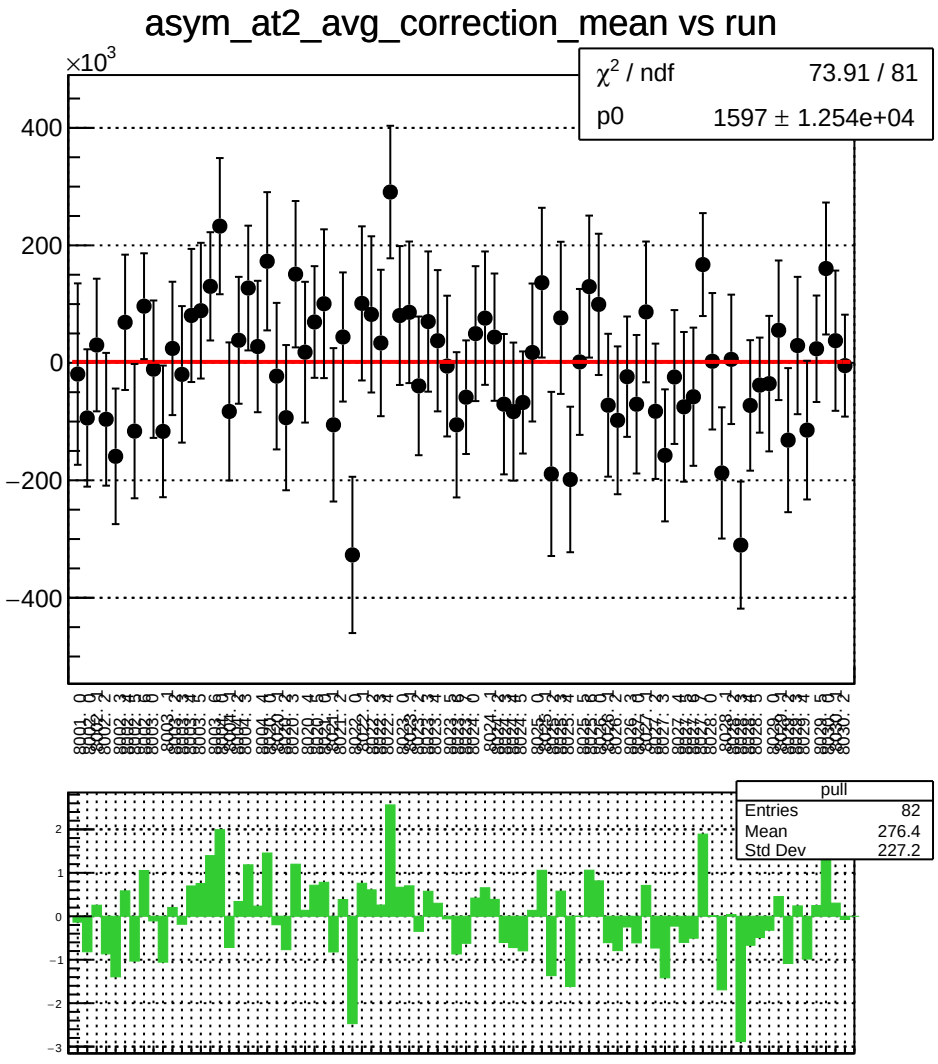

pull1D
Entries 82
Mean 0.005221
Std Dev 1.014

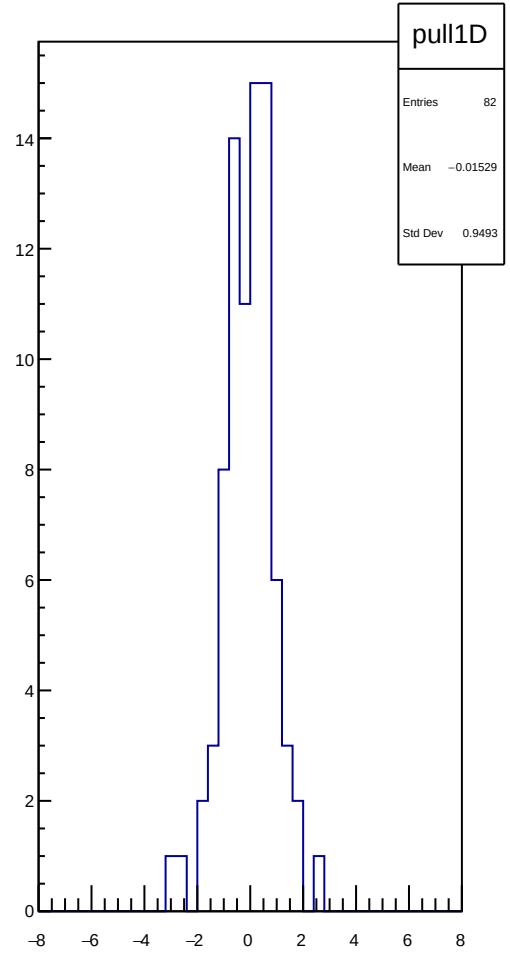

asym_at1_dd_rms vs run
χ² / ndf 1910 / 81
p0 1936 ± 1.531
2150
2100
2050
2000
1950
1900
1850

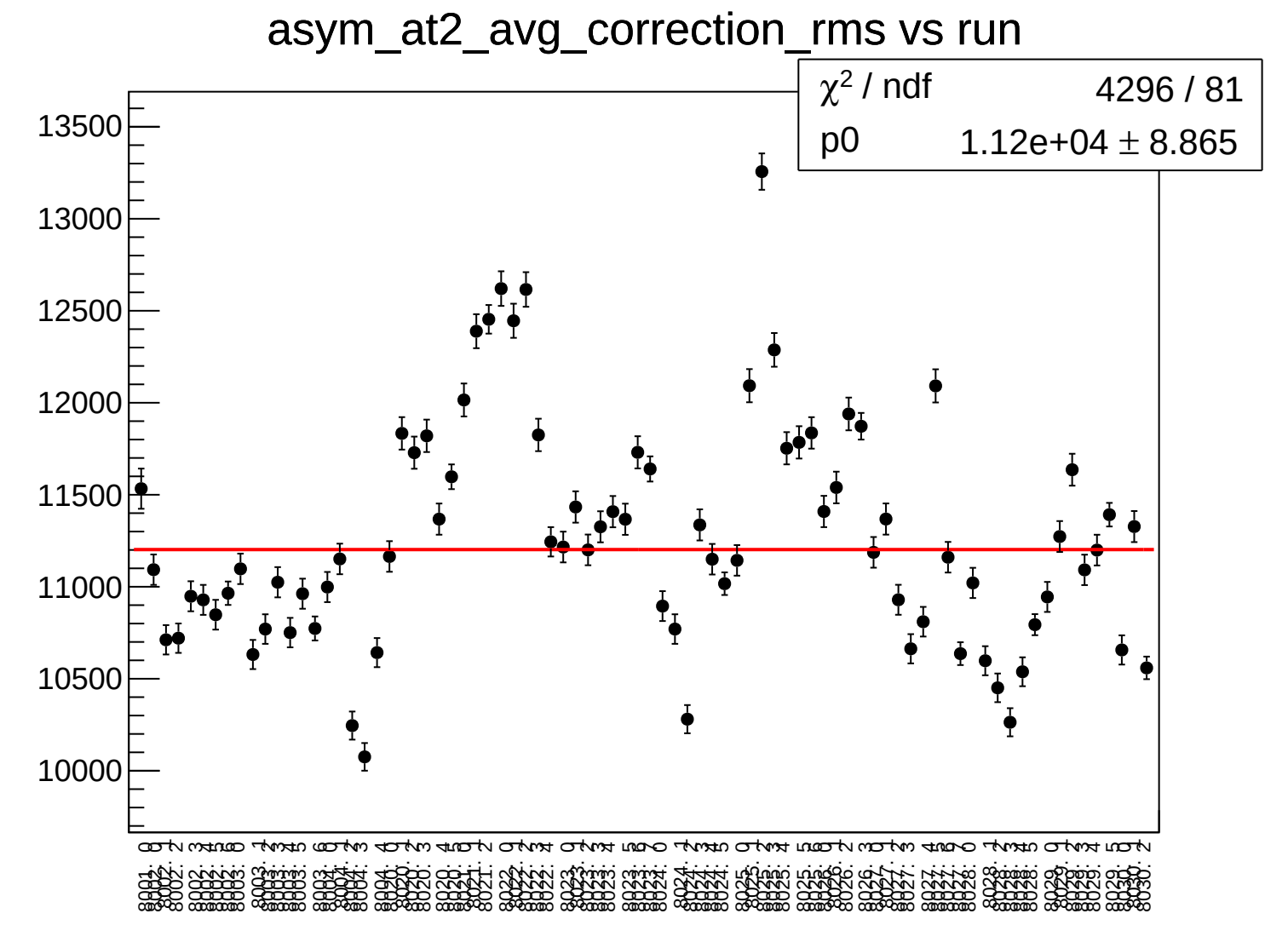

dit_asym_at2_avg_mean vs run
χ² / ndf 72.9 / 81
p0 167.3 ± 2113
pull
Entries 82
Mean 779.4
Std Dev 731.3

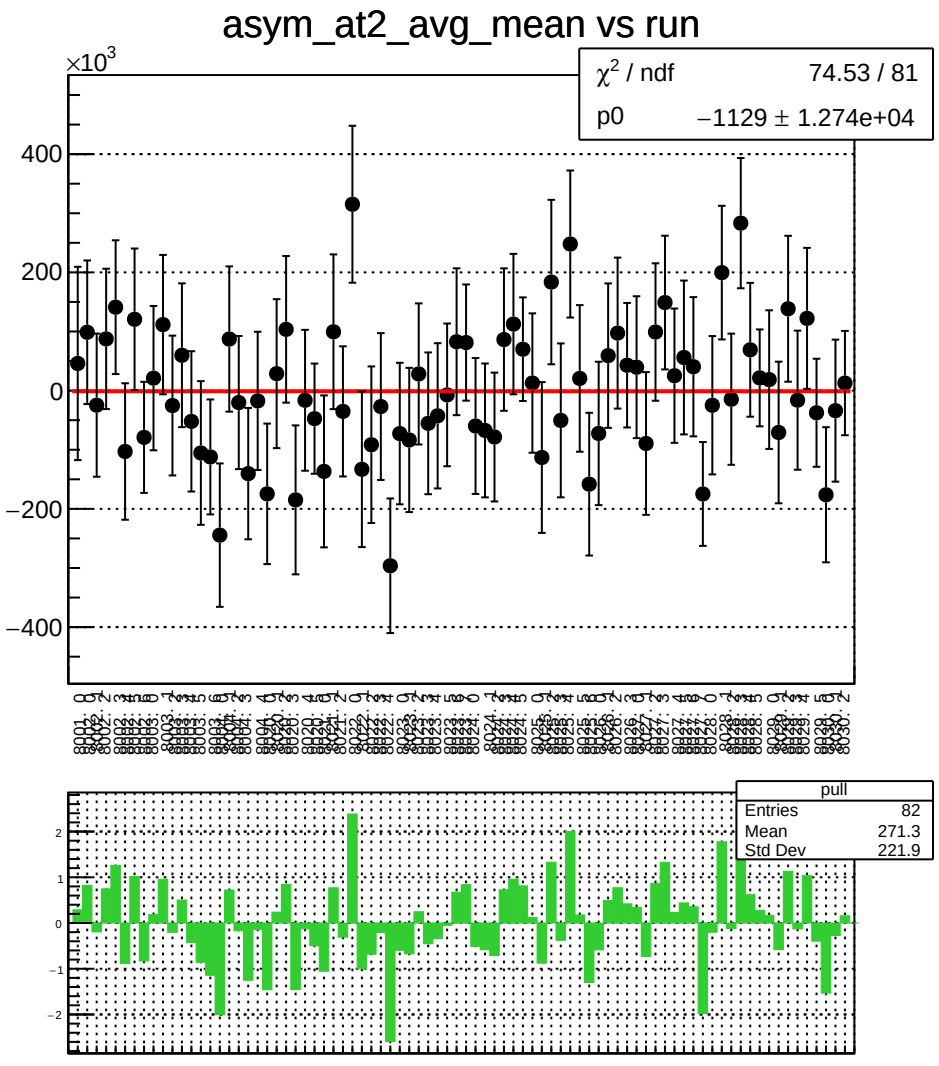

pull1D
Entries 82
Mean −0.00337
Std Dev 0.9429

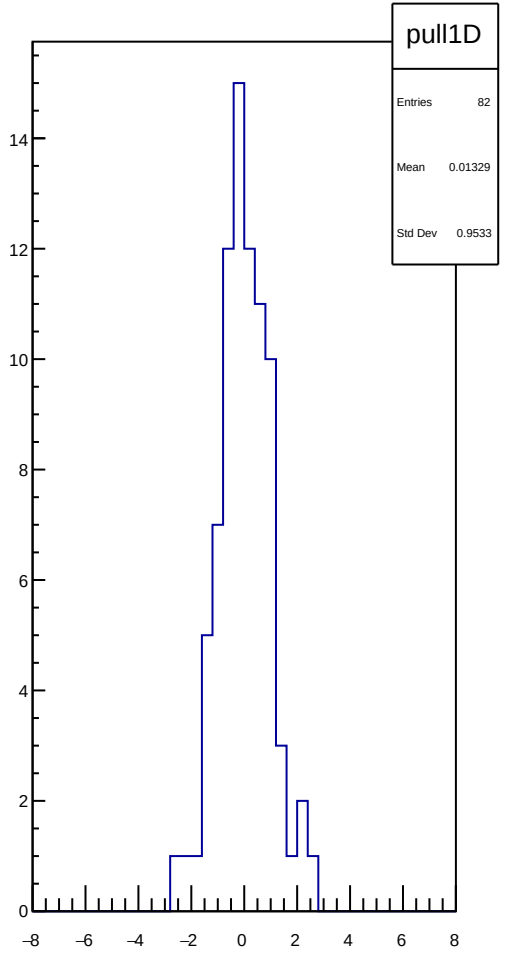

dit_asym_at2_avg_rms vs run
χ² / ndf 1576 / 81
p0 1889 ± 1.494
2200
2150
2100
2050
2000
1950
1900
1850
1800

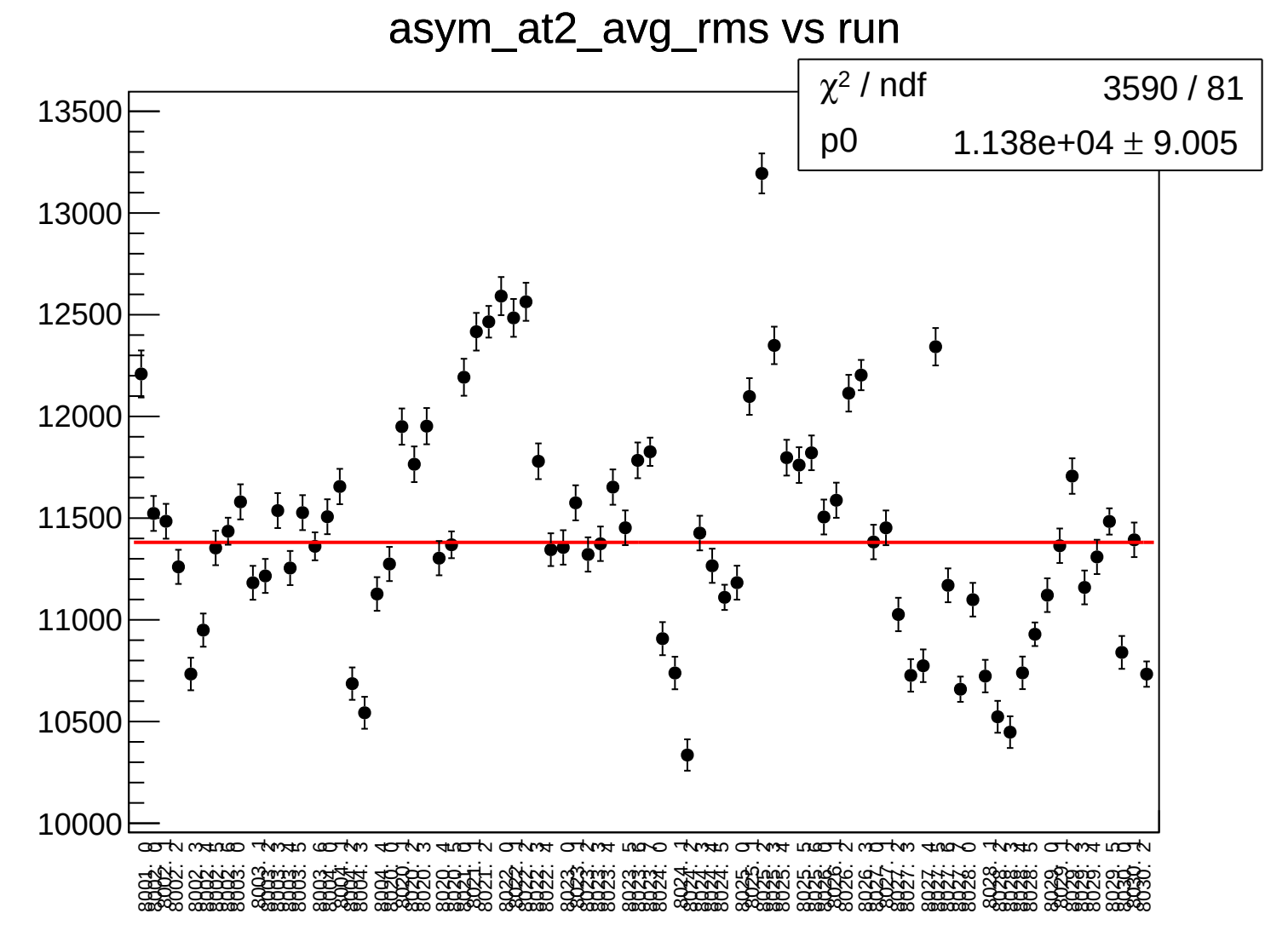

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 73.91 / 81
p0 1597 ± 1.254e+04
400
200
0
−200
−400
pull
Entries 82
Mean 276.4
Std Dev 227.2
2
1
0
−1
−2
−3

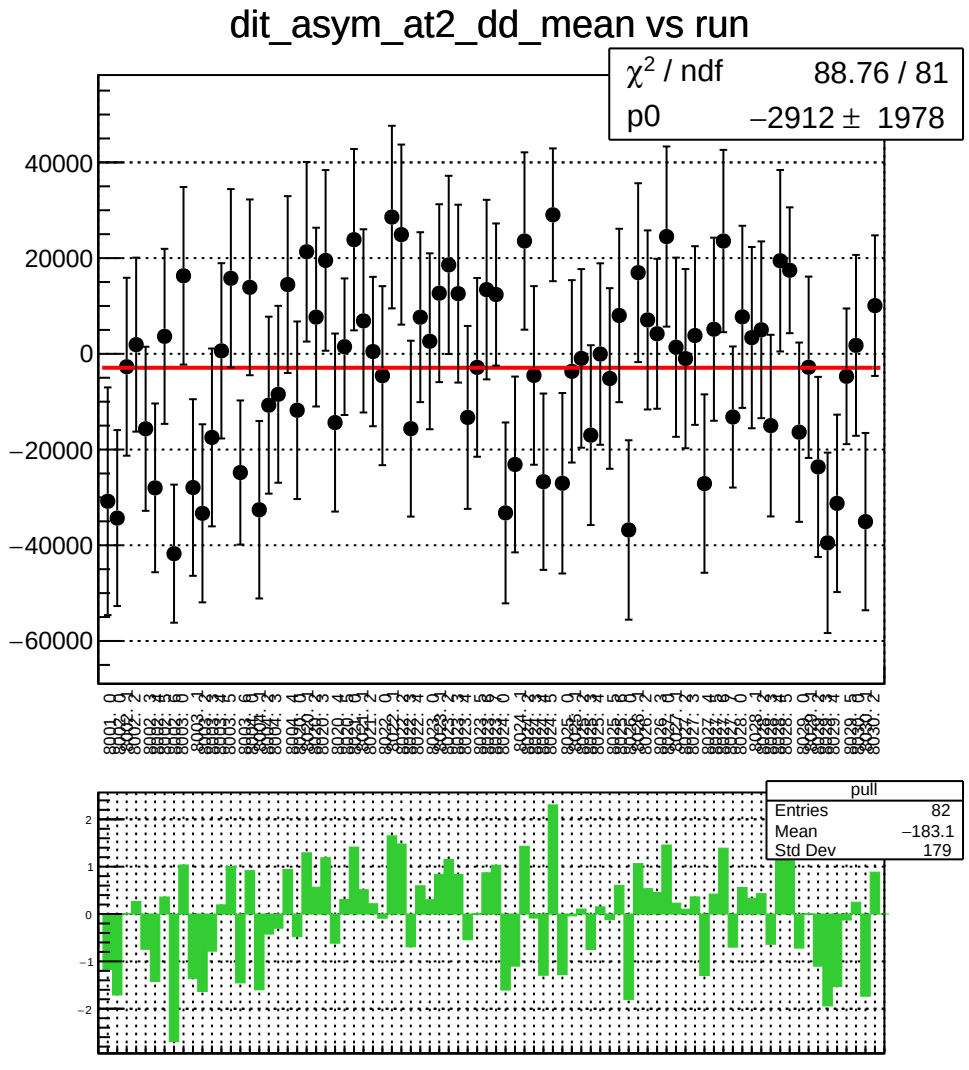

pull1D
Entries 82
Mean −0.01529
Std Dev 0.9493
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

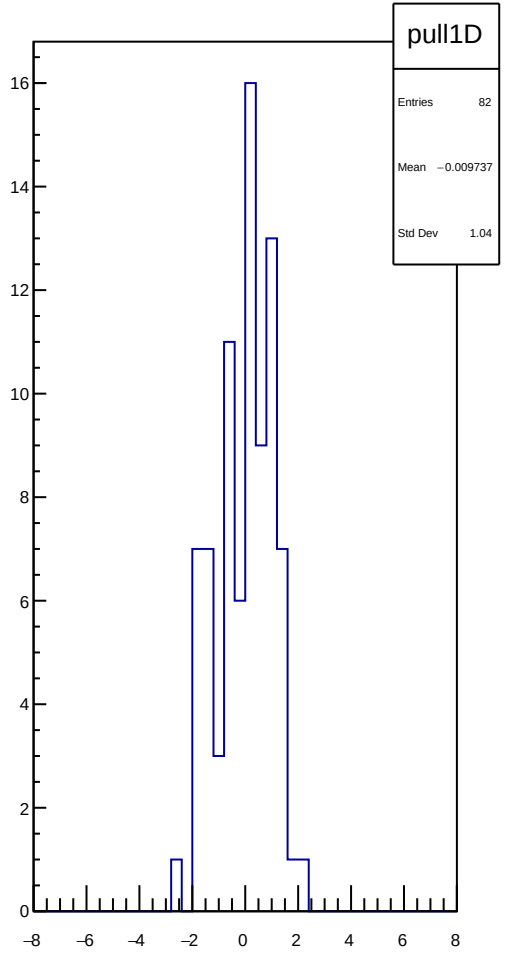

asym_at2_avg_correction_rms vs run
χ² / ndf 4296 / 81
p0 1.12e+04 ± 8.865
13500
13000
12500
12000
11500
11000
10500
10000

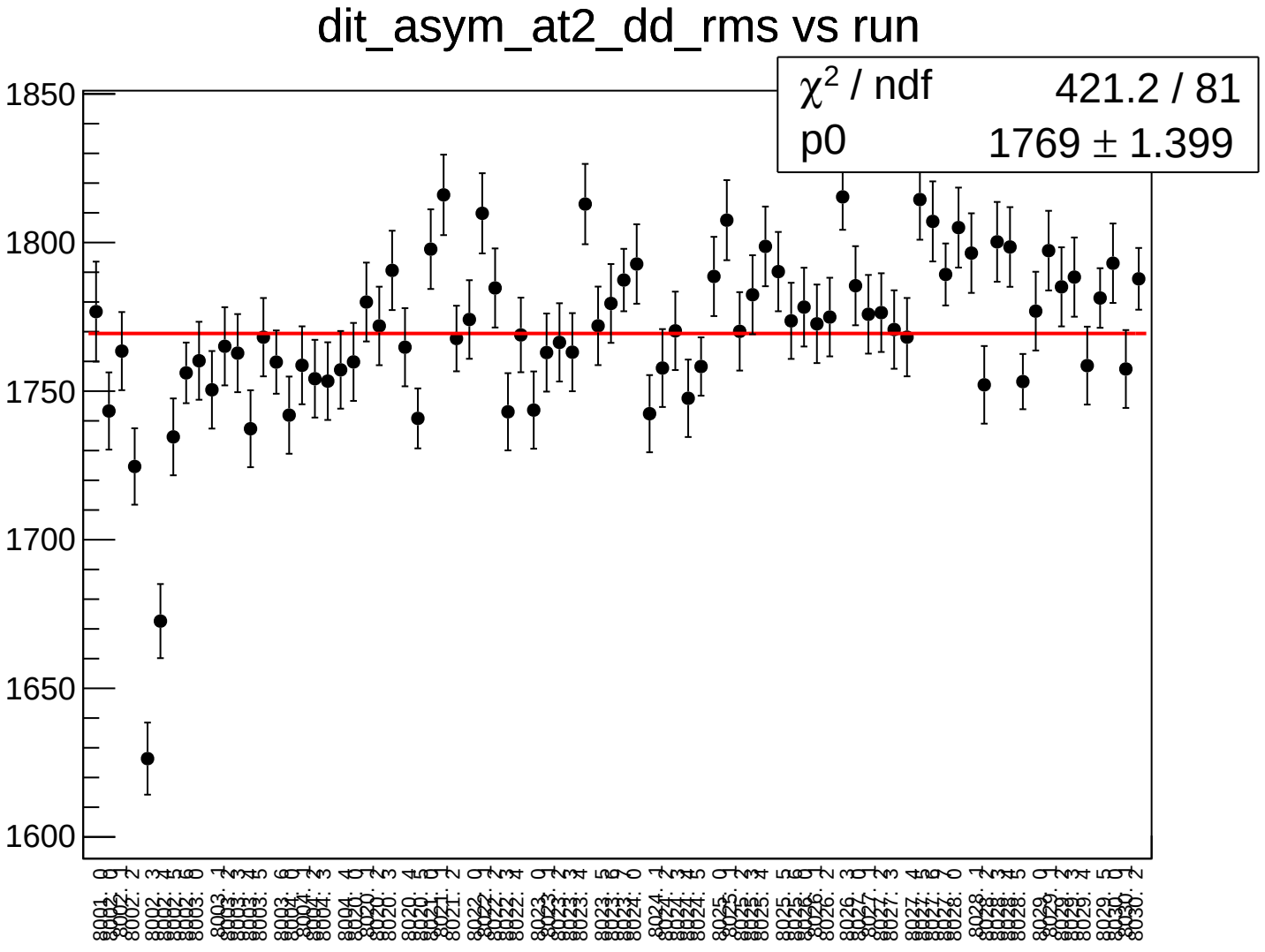

asym_at2_avg_mean vs run
×10^3
χ² / ndf 74.53 / 81
p0 −1129 ± 1.274e+04
400
200
0
−200
−400
pull
Entries 82
Mean 271.3
Std Dev 221.9
2
1
0
−1
−2

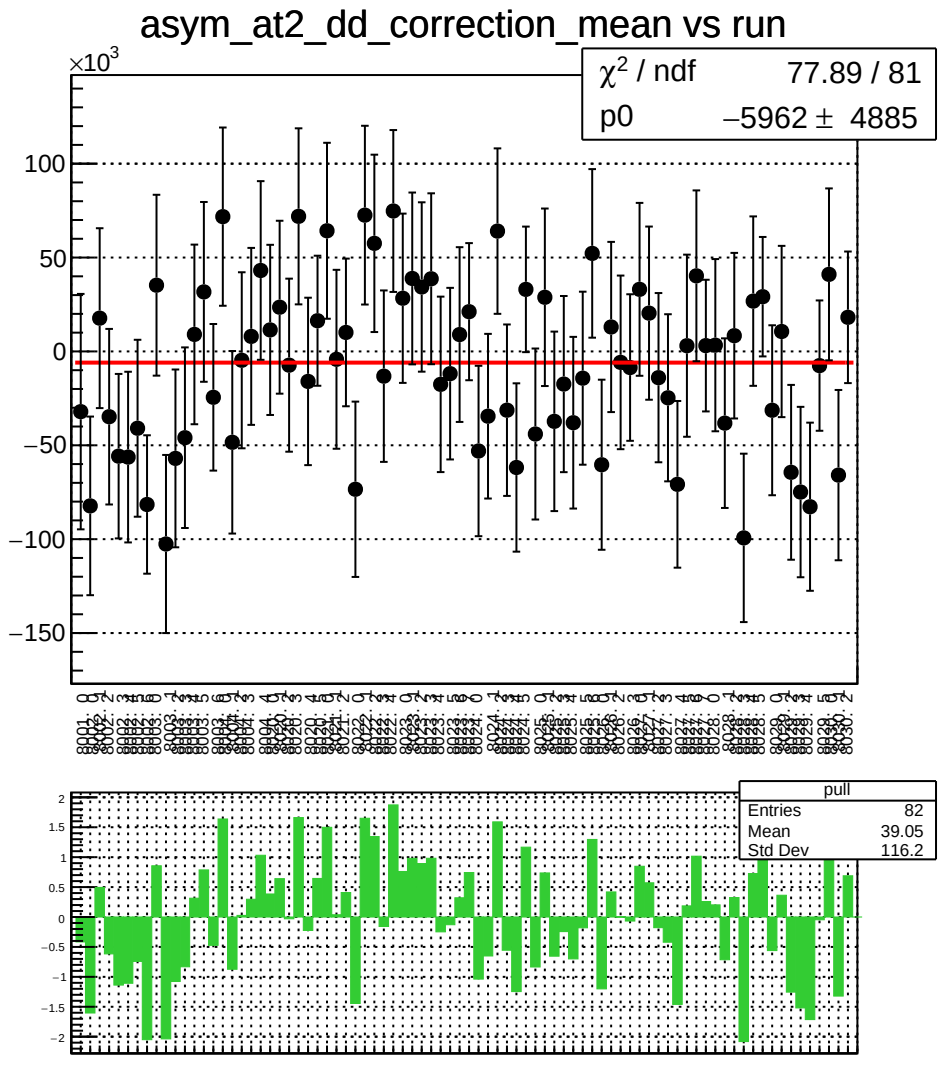

pull1D
Entries 82
Mean 0.01329
Std Dev 0.9533
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

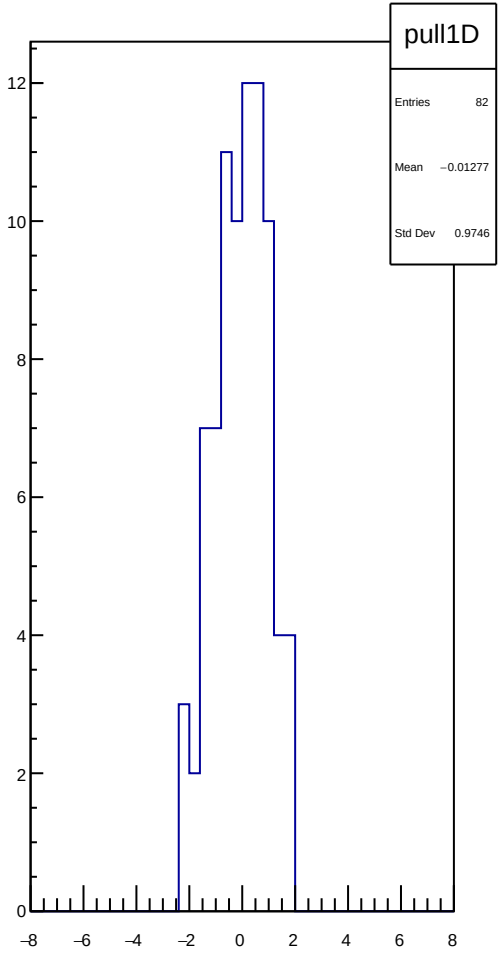

asym_at2_avg_rms vs run
χ² / ndf 3590 / 81
p0 1.138e+04 ± 9.005
13500
13000
12500
12000
11500
11000
10500
10000

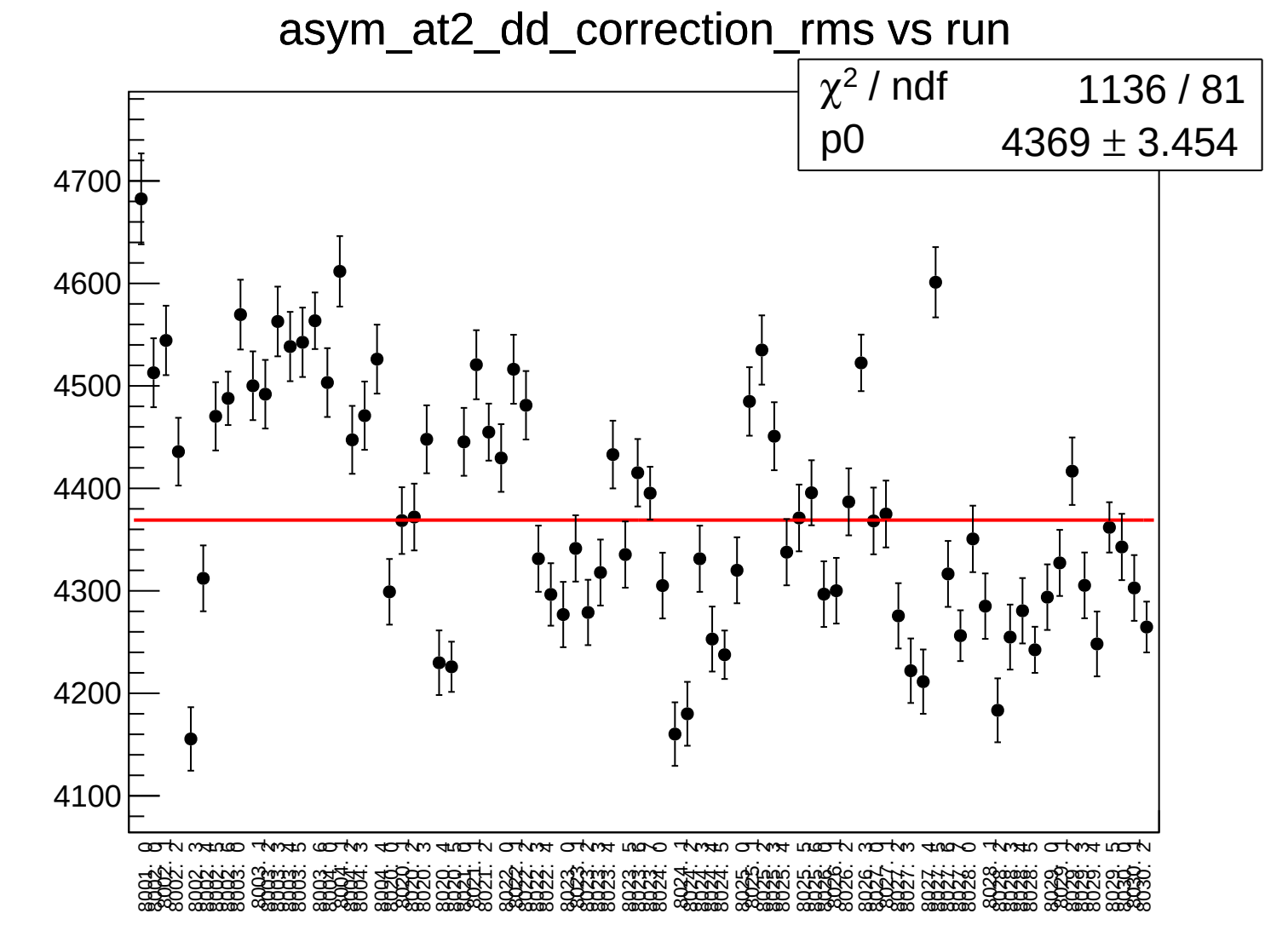

dit_asym_at2_dd_mean vs run
χ² / ndf 88.76 / 81
p0 −2912 ± 1978
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −183.1
Std Dev 179
2
1
0
−1
−2

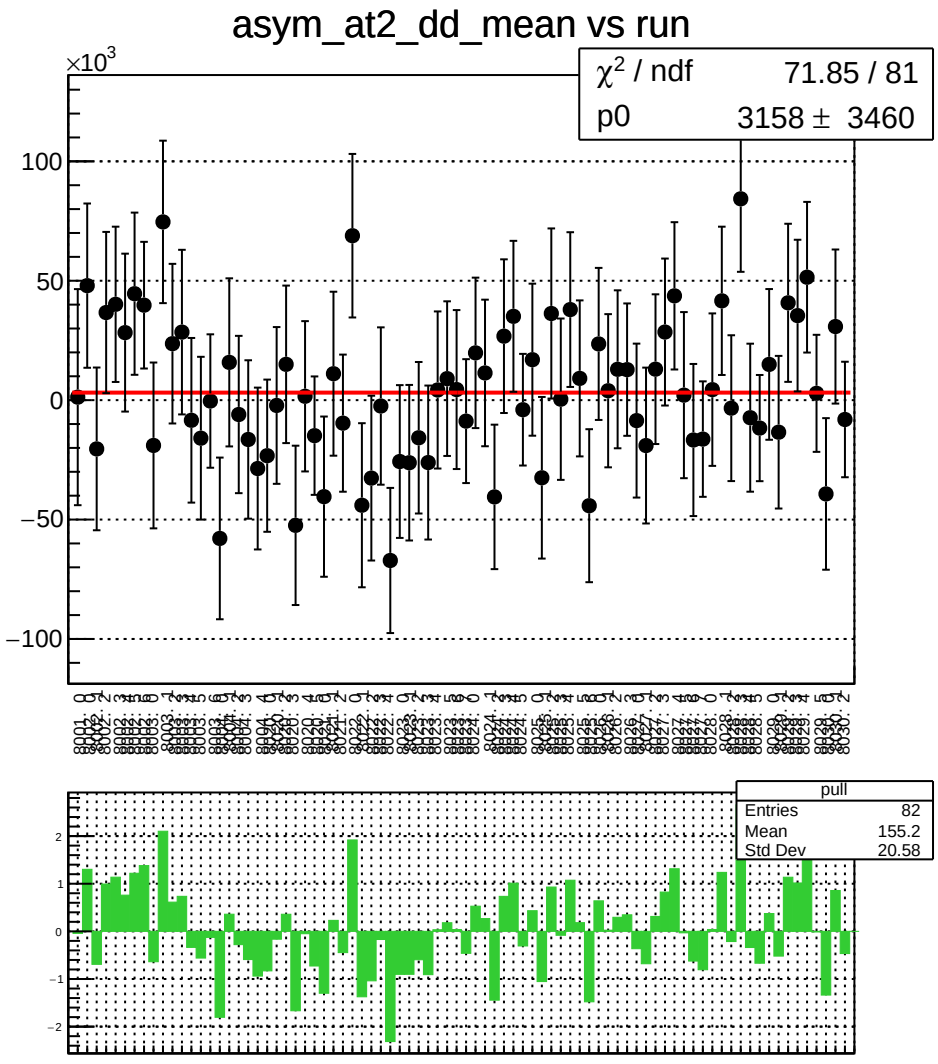

pull1D
Entries 82
Mean −0.009737
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

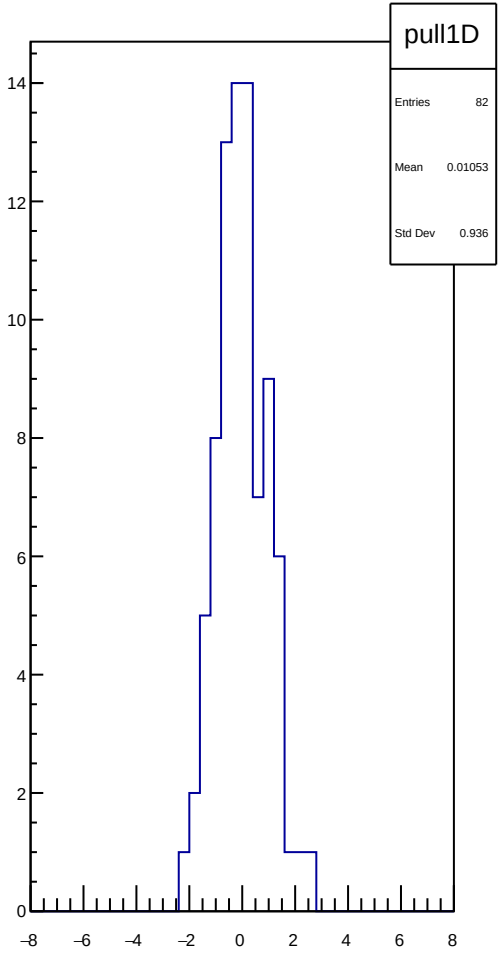

dit_asym_at2_dd_rms vs run
χ² / ndf 421.2 / 81
p0 1769 ± 1.399
1850
1800
1750
1700
1650
1600

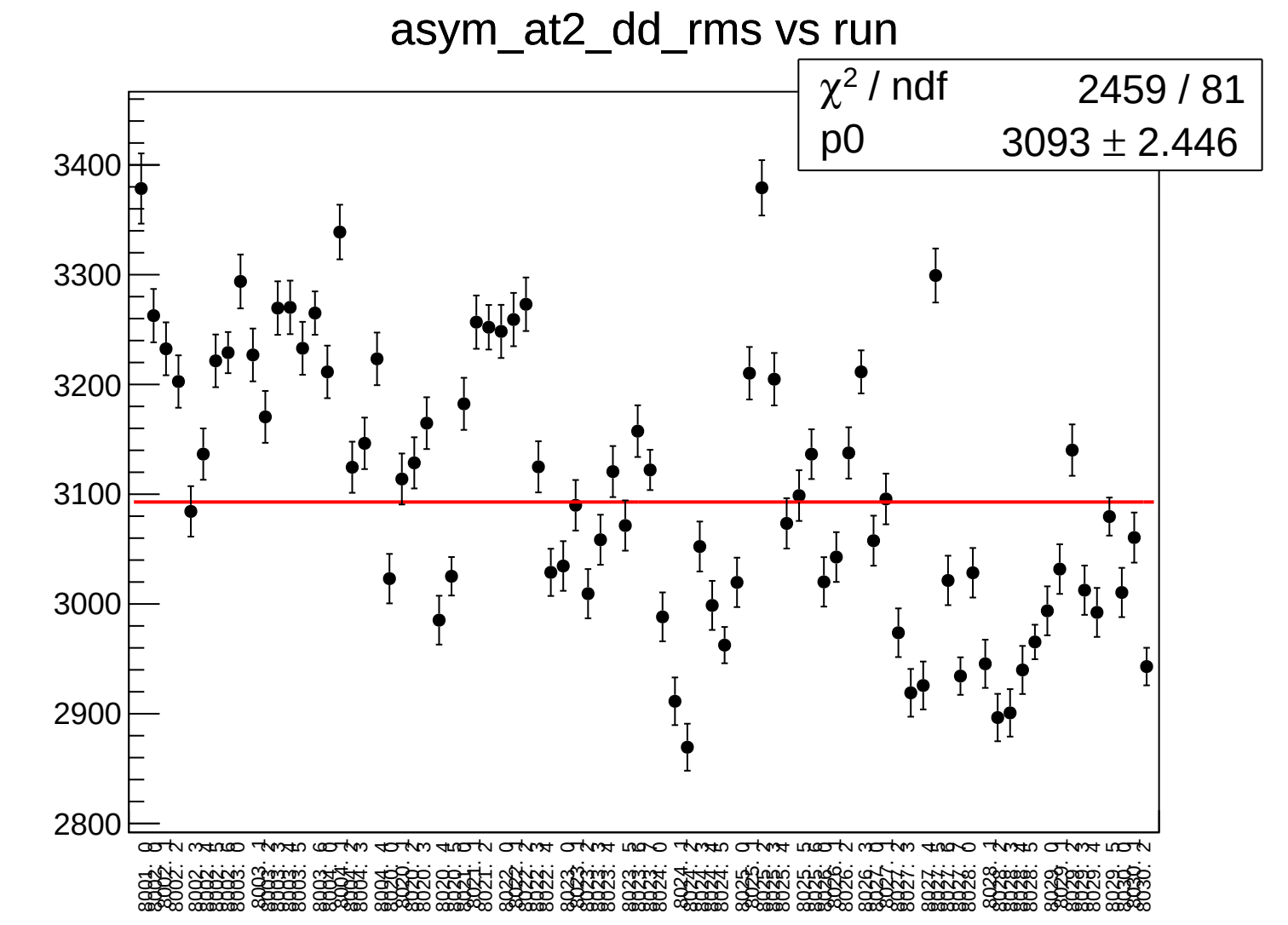

asym_at2_dd_correction_mean vs run
χ² / ndf 77.89 / 81
p0 −5962 ± 4885
pull
Entries 82
Mean 39.05
Std Dev 116.2

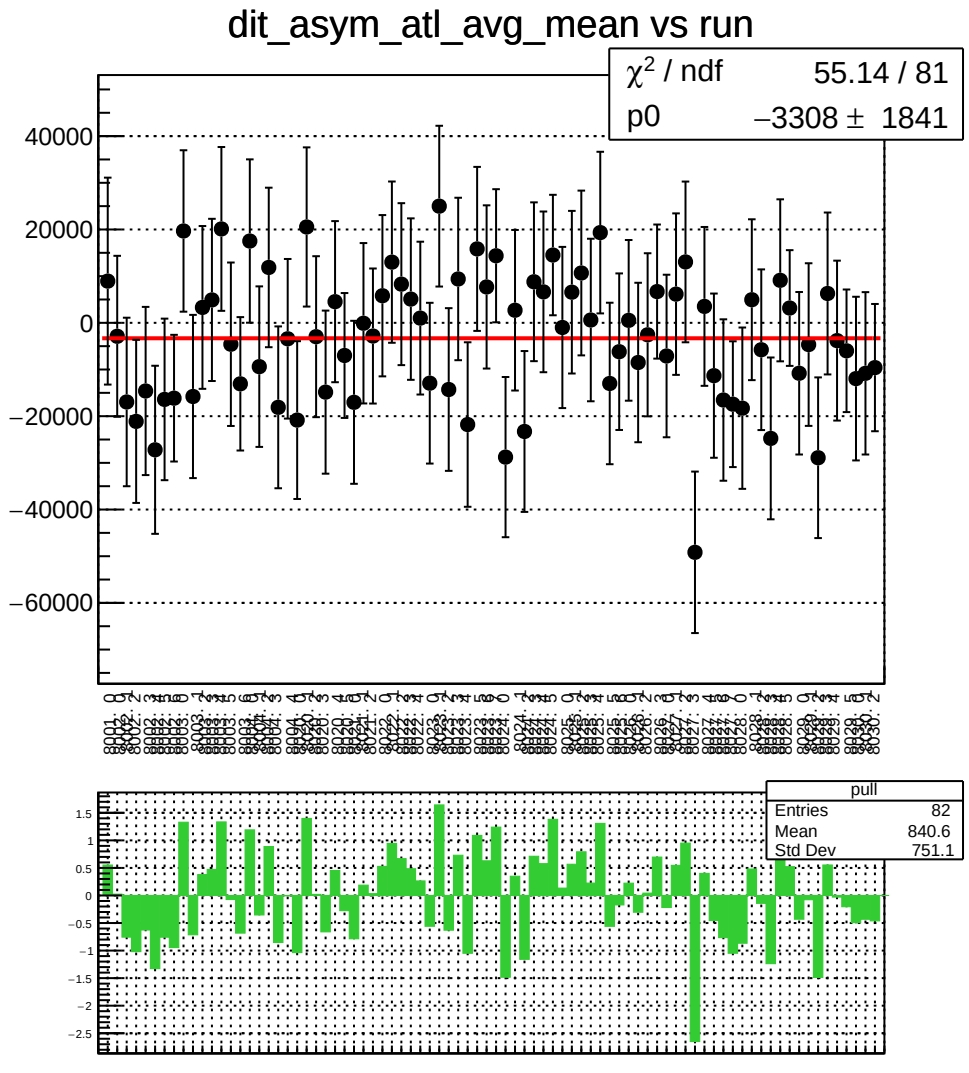

pull1D
Entries 82
Mean −0.01277
Std Dev 0.9746

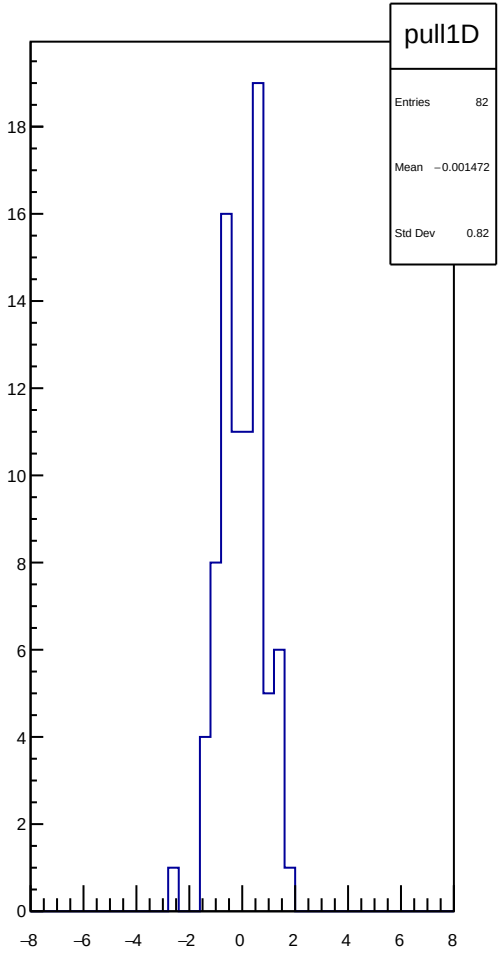

asym_at2_dd_correction_rms vs run
χ^2 / ndf 1136 / 81
p0 4369 ± 3.454
4700
4600
4500
4400
4300
4200
4100

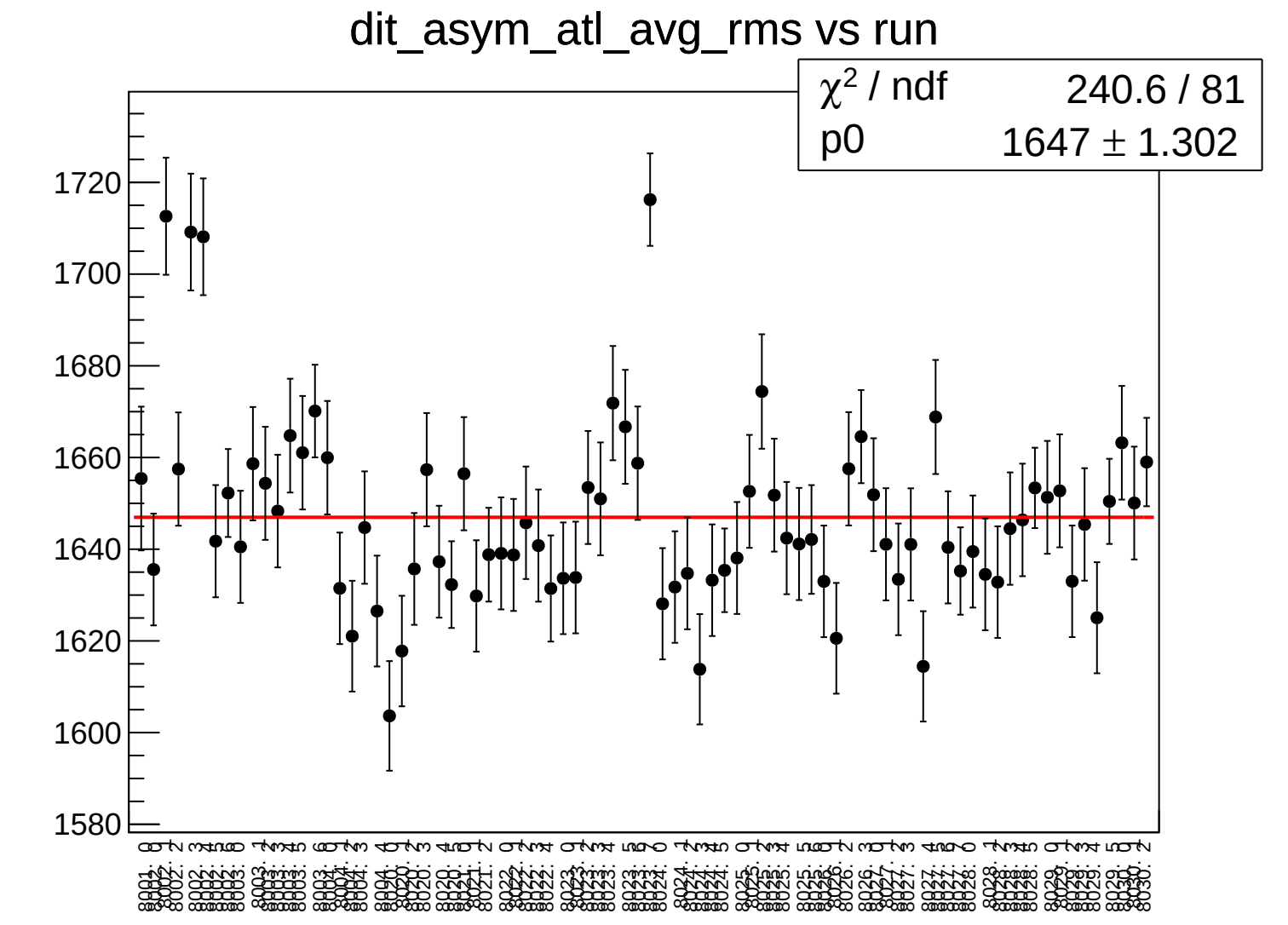

asym_at2_dd_mean vs run
×10^3
χ² / ndf 71.85 / 81
p0 3158 ± 3460
100
50
0
−50
−100
pull
Entries 82
Mean 155.2
Std Dev 20.58
2
1
0
−1
−2

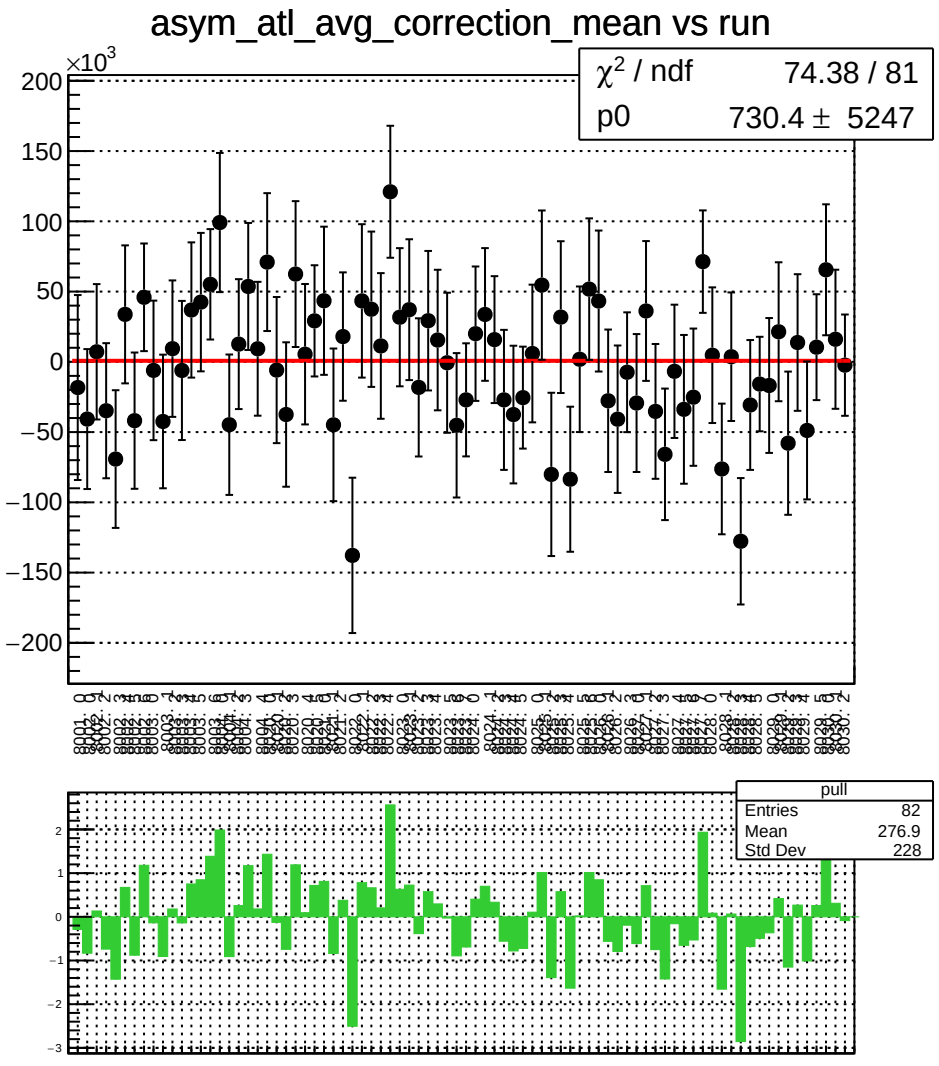

pull1D
Entries 82
Mean 0.01053
Std Dev 0.936
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

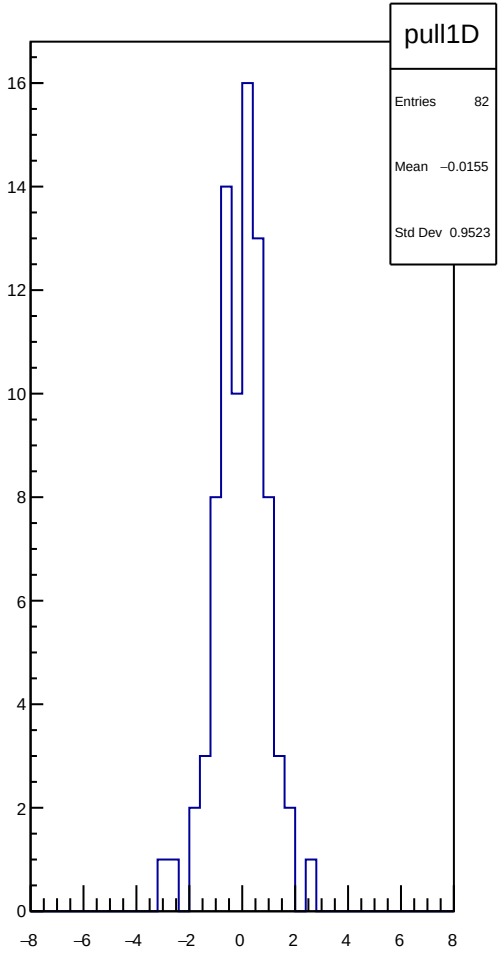

asym_at2_dd_rms vs run
χ² / ndf 2459 / 81
p0 3093 ± 2.446
3400
3300
3200
3100
3000
2900
2800

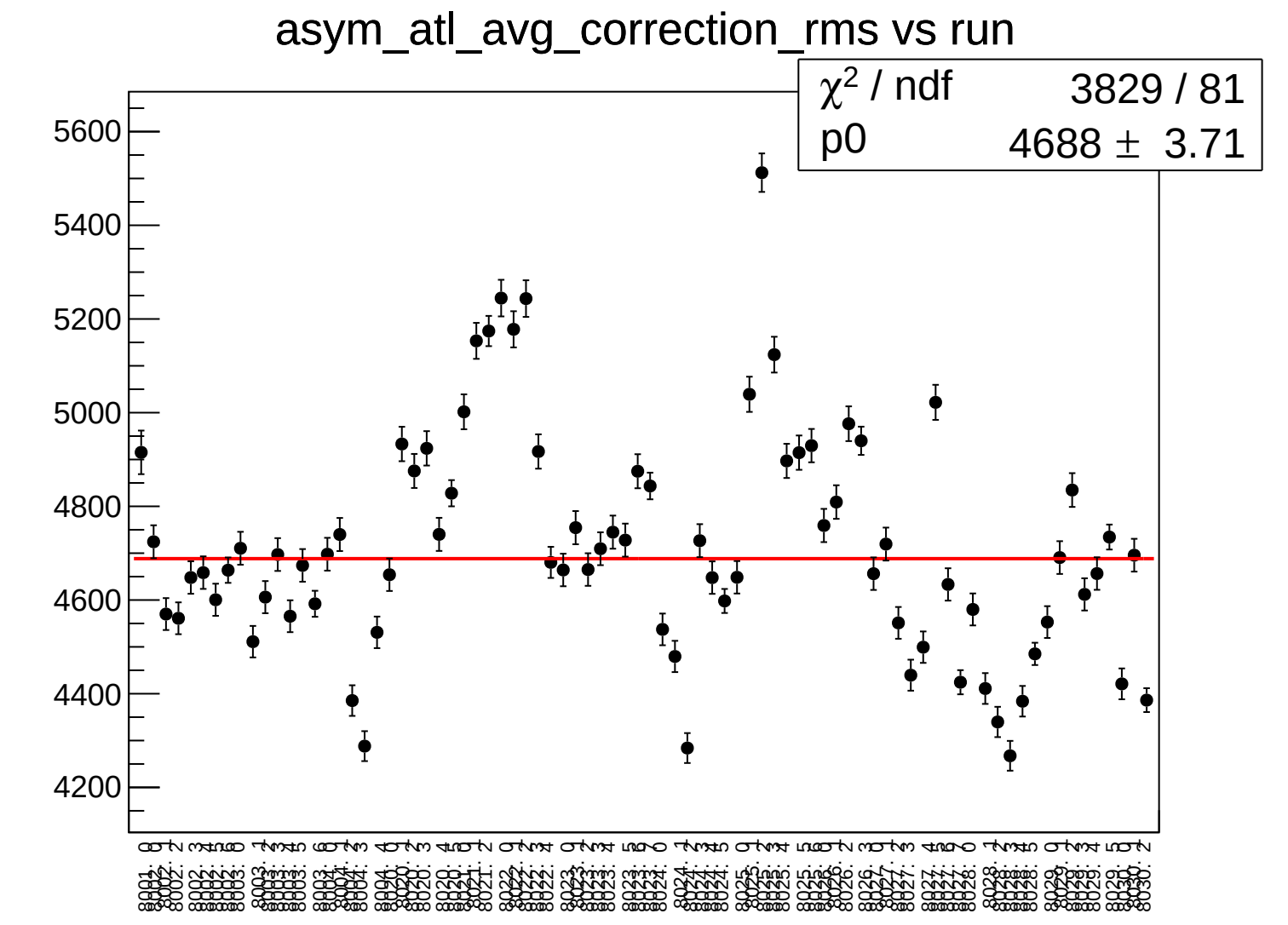

dit_asym_atl_avg_mean vs run
χ² / ndf 55.14 / 81
p0 −3308 ± 1841
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 840.6
Std Dev 751.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

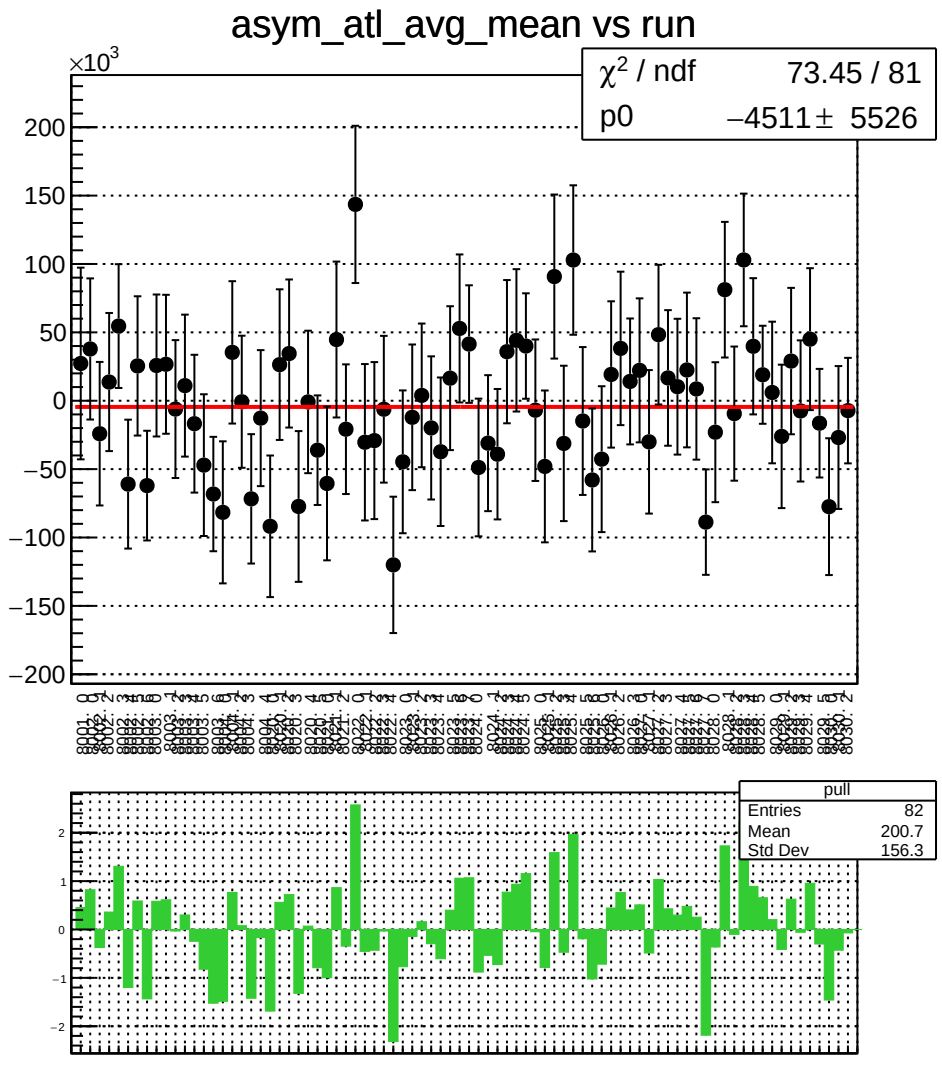

pull1D
Entries 82
Mean −0.001472
Std Dev 0.82
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

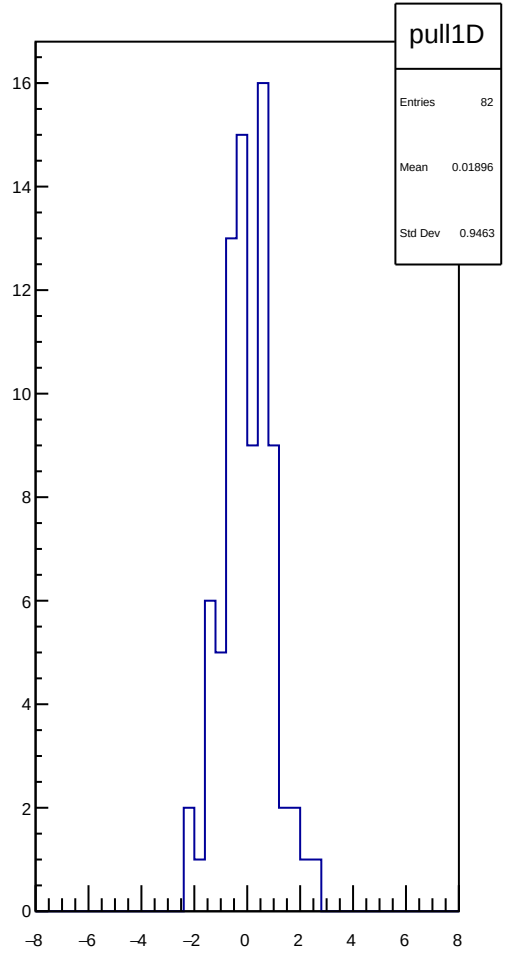

dit_asym_atl_avg_rms vs run
χ² / ndf 240.6 / 81
p0 1647 ± 1.302
1720
1700
1680
1660
1640
1620
1600
1580

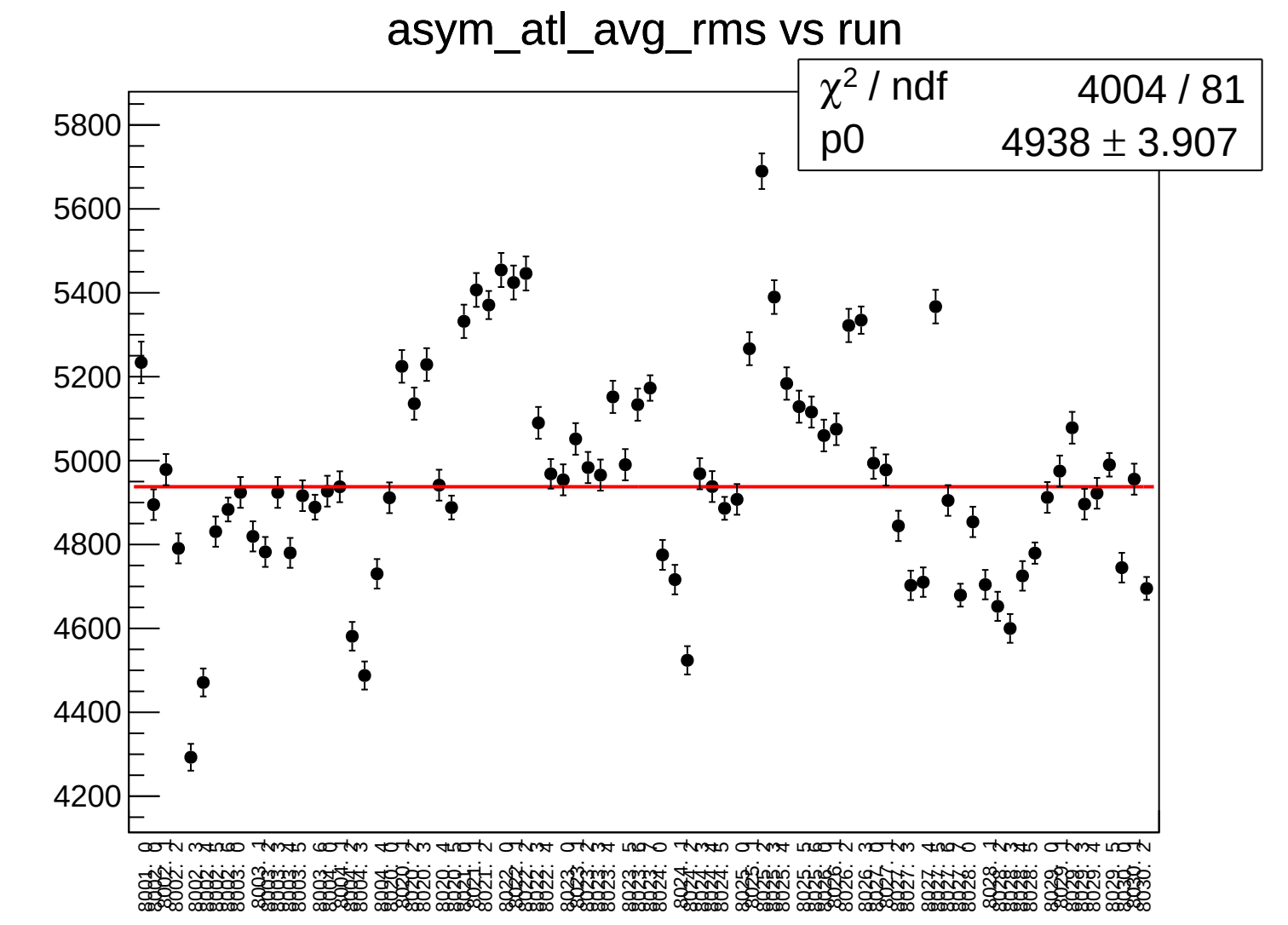

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 74.38 / 81
p0 730.4 ± 5247
pull
Entries 82
Mean 276.9
Std Dev 228

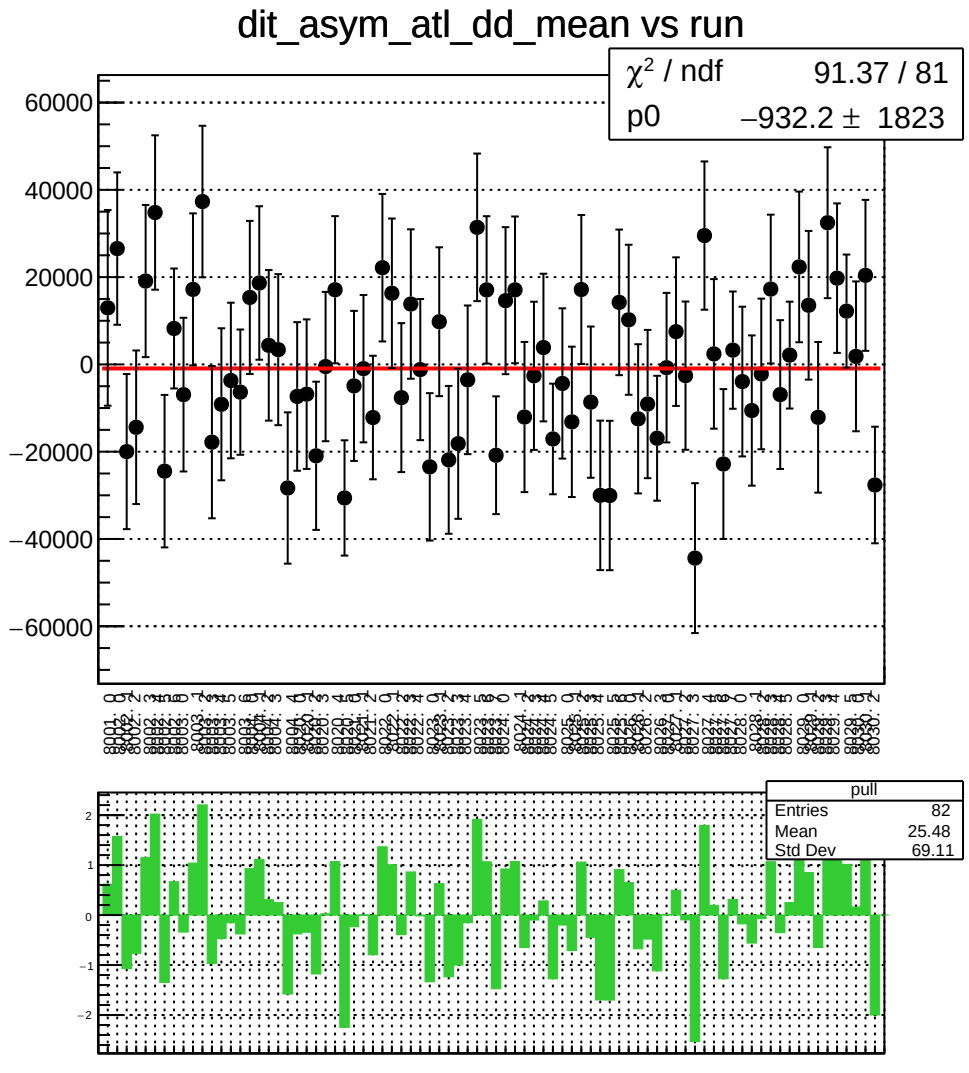

pull1D
Entries 82
Mean −0.0155
Std Dev 0.9523

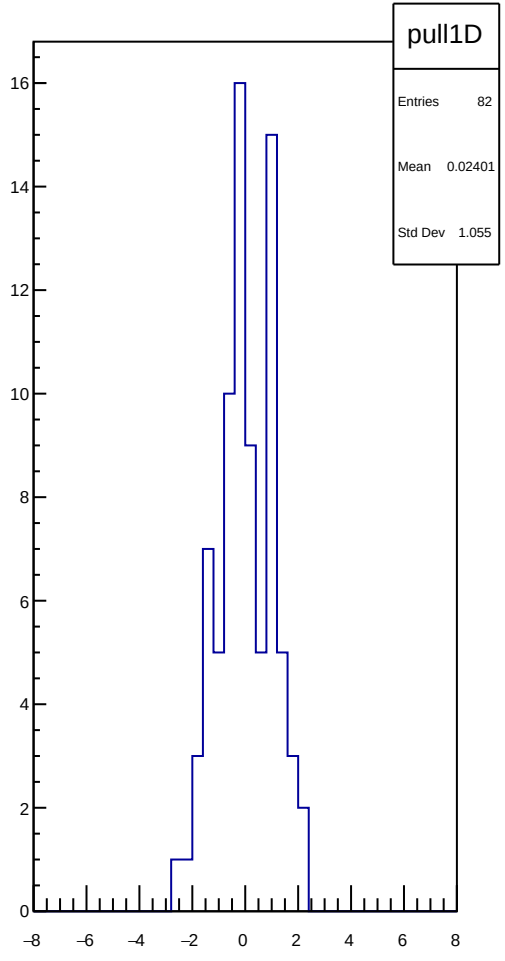

asym_atl_avg_correction_rms vs run
χ² / ndf 3829 / 81
p0 4688 ± 3.71
5600
5400
5200
5000
4800
4600
4400
4200

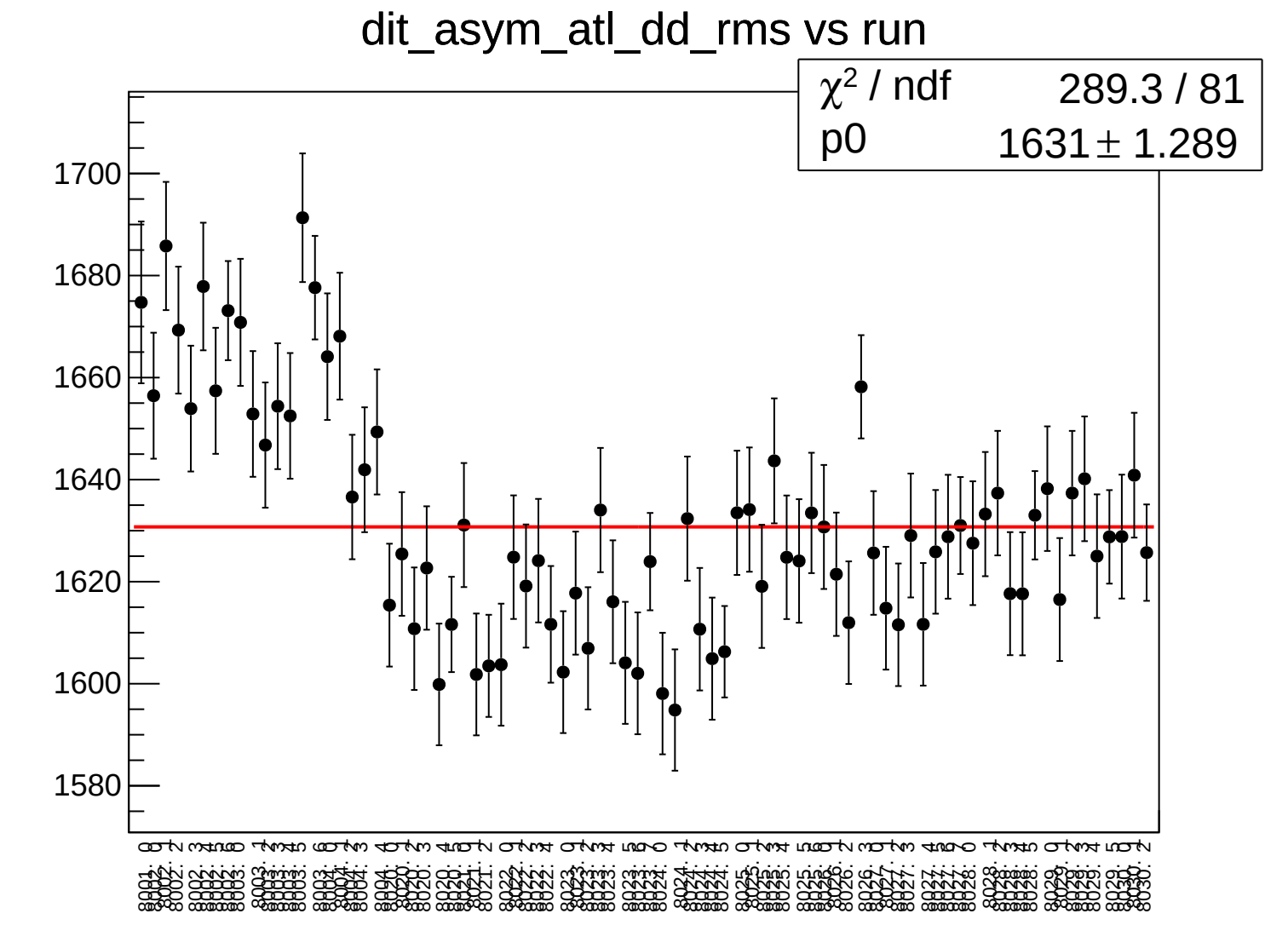

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 73.45 / 81
p0 −4511 ± 5526
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 82
Mean 200.7
Std Dev 156.3
2
1
0
−1
−2

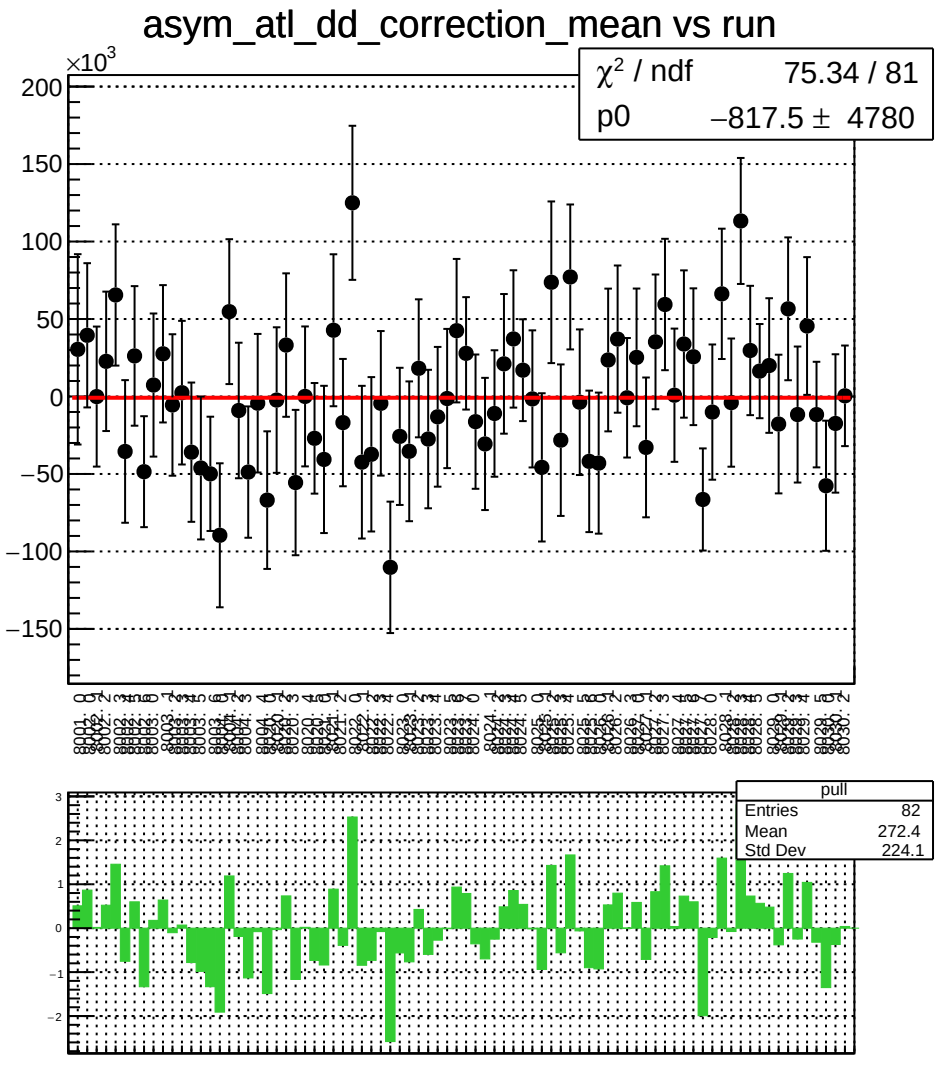

pull1D
Entries 82
Mean 0.01896
Std Dev 0.9463
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

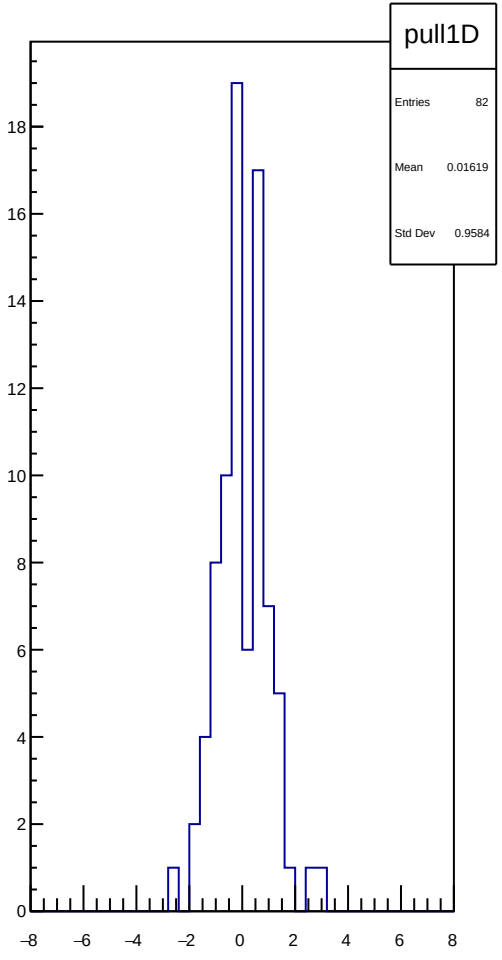

asym_atl_avg_rms vs run
χ² / ndf 4004 / 81
p0 4938 ± 3.907
5800
5600
5400
5200
5000
4800
4600
4400
4200

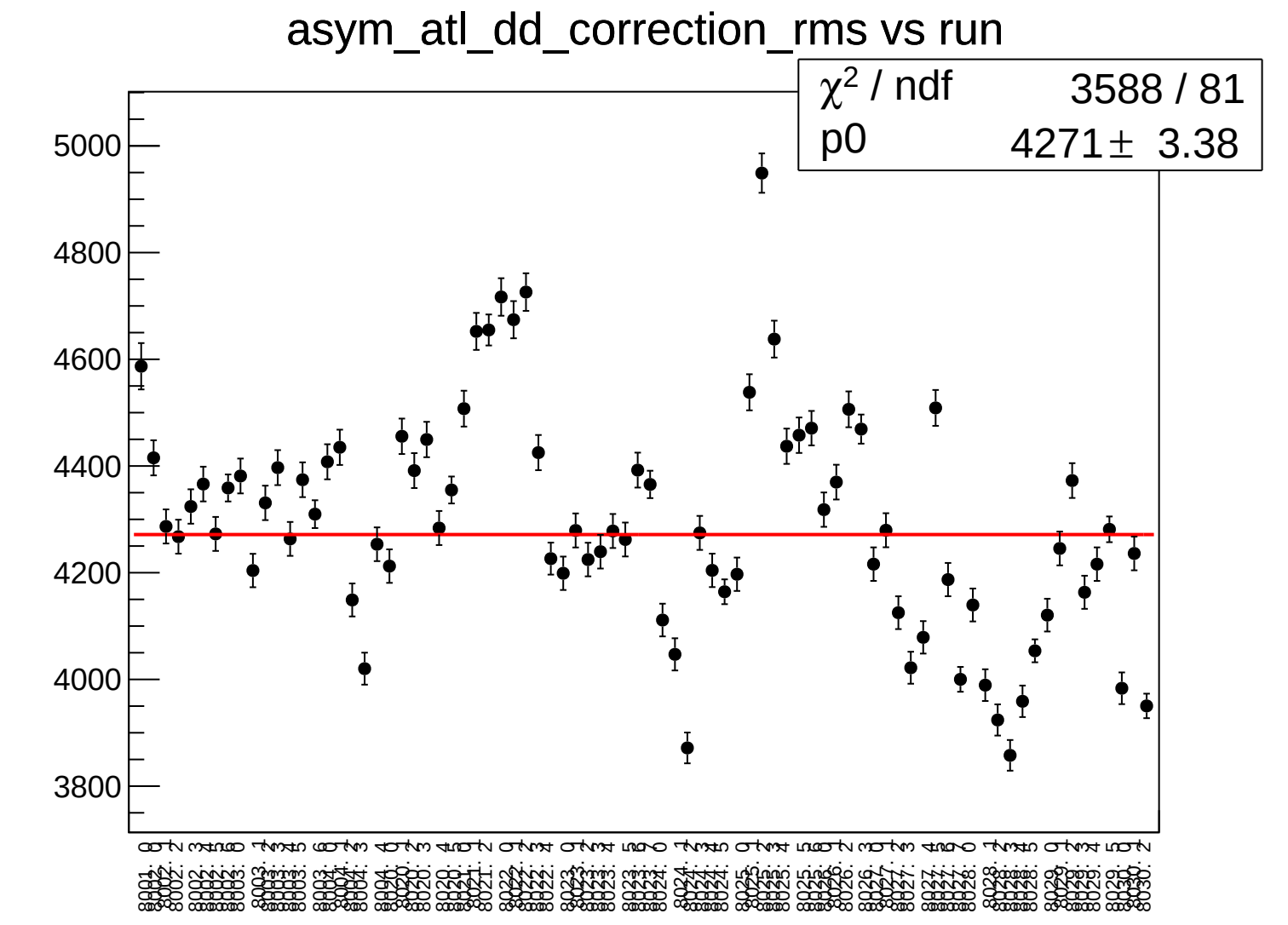

dit_asym_atl_dd_mean vs run
χ² / ndf 91.37 / 81
p0 −932.2 ± 1823
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 25.48
Std Dev 69.11
2
1
0
−1
−2

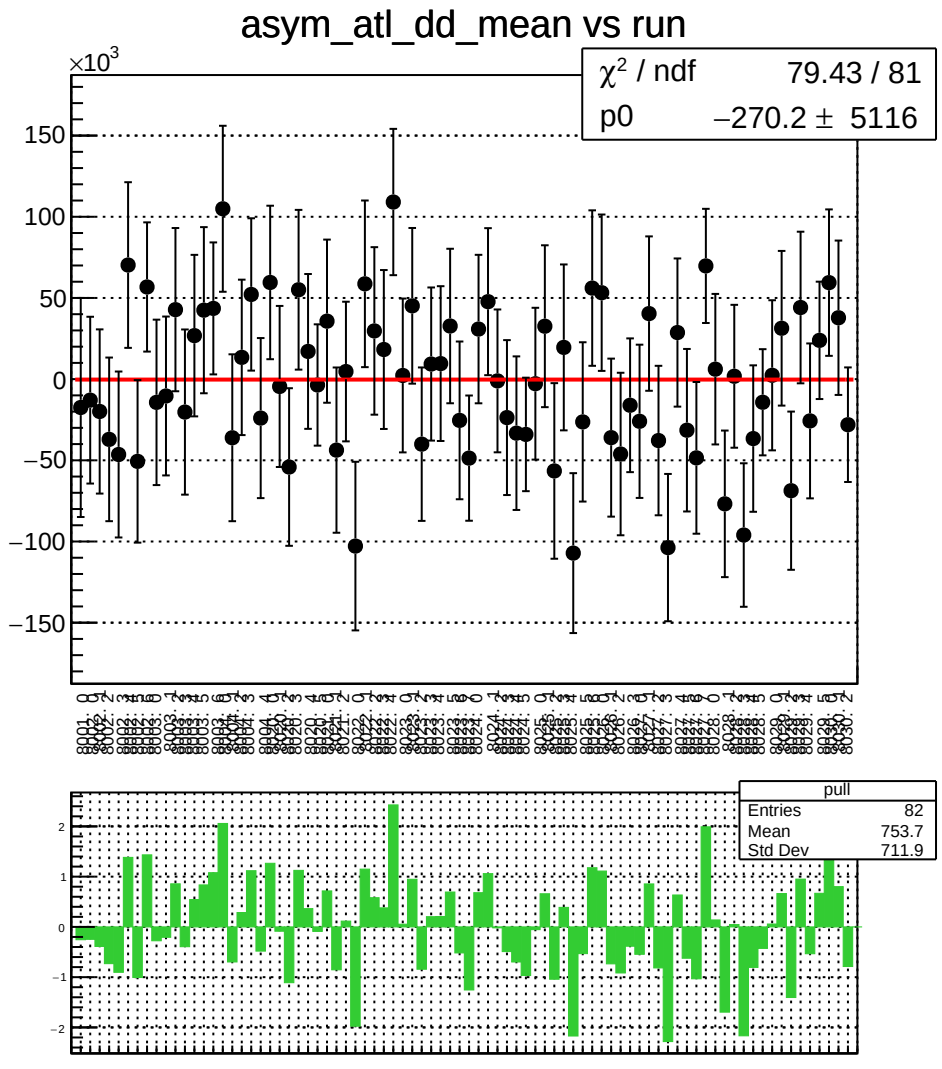

pull1D
Entries 82
Mean 0.02401
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

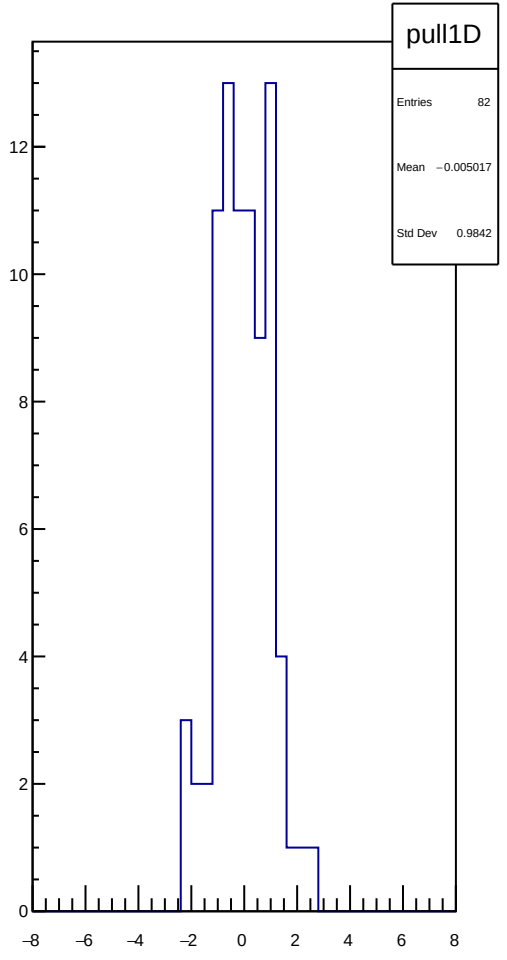

dit_asym_atl_dd_rms vs run
χ^2 / ndf 289.3 / 81
p0 1631 ± 1.289
1700
1680
1660
1640
1620
1600
1580

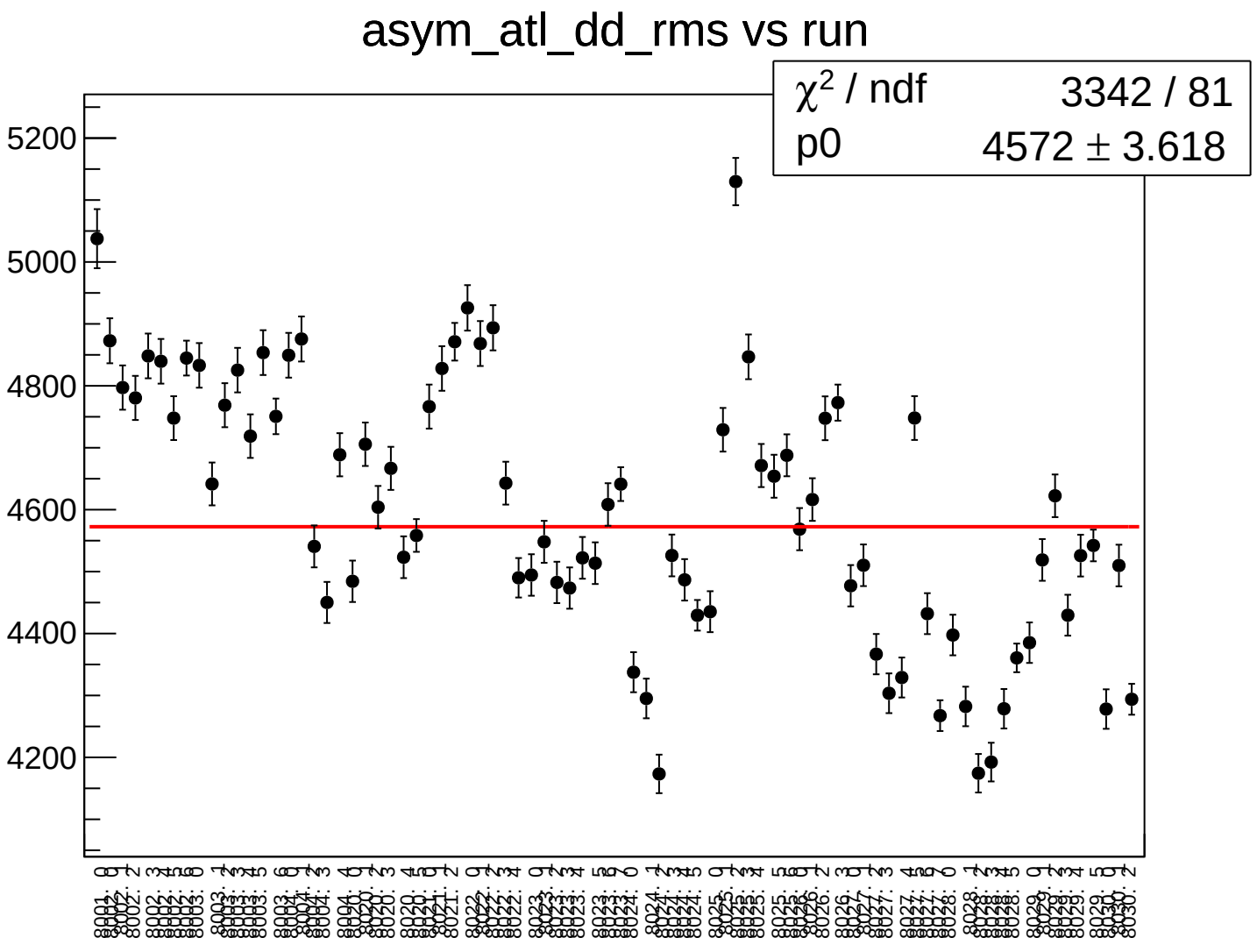

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 75.34 / 81
p0 −817.5 ± 4780
pull
Entries 82
Mean 272.4
Std Dev 224.1

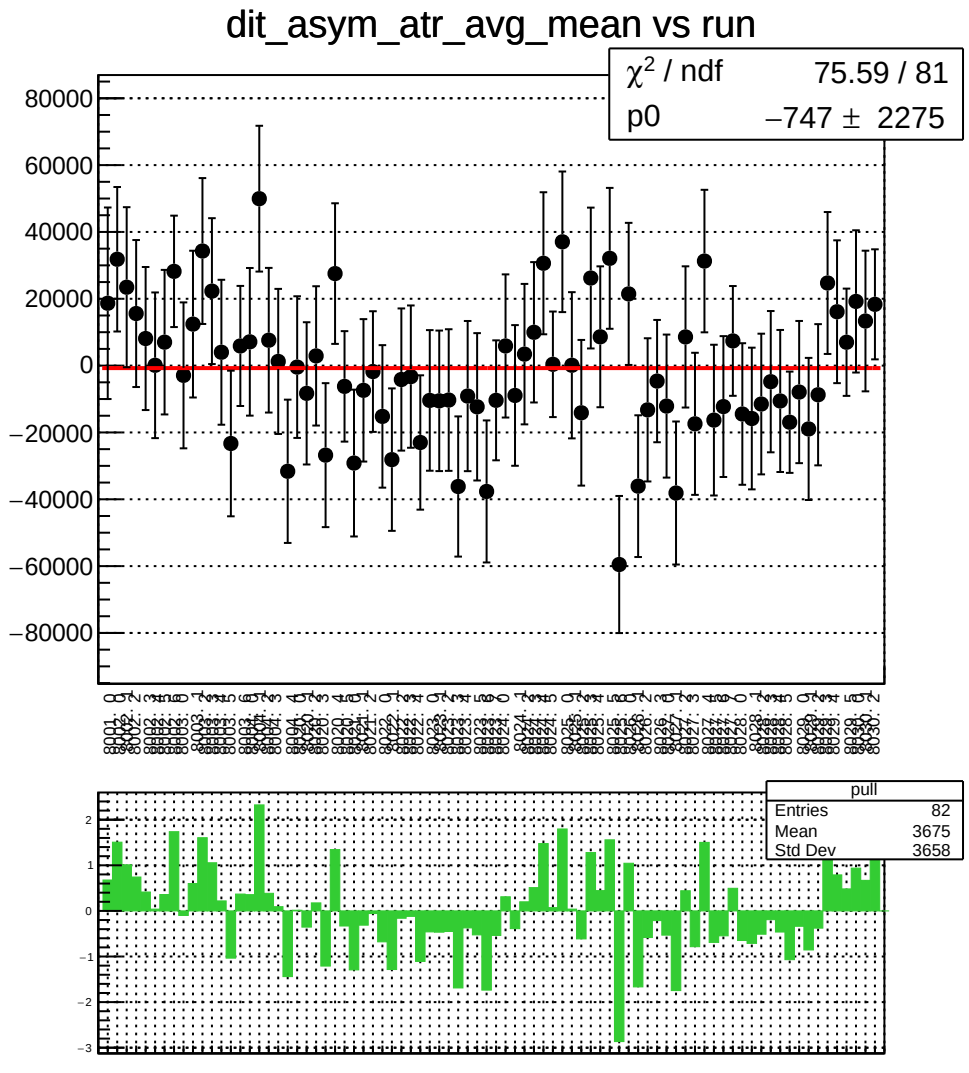

pull1D
Entries 82
Mean 0.01619
Std Dev 0.9584

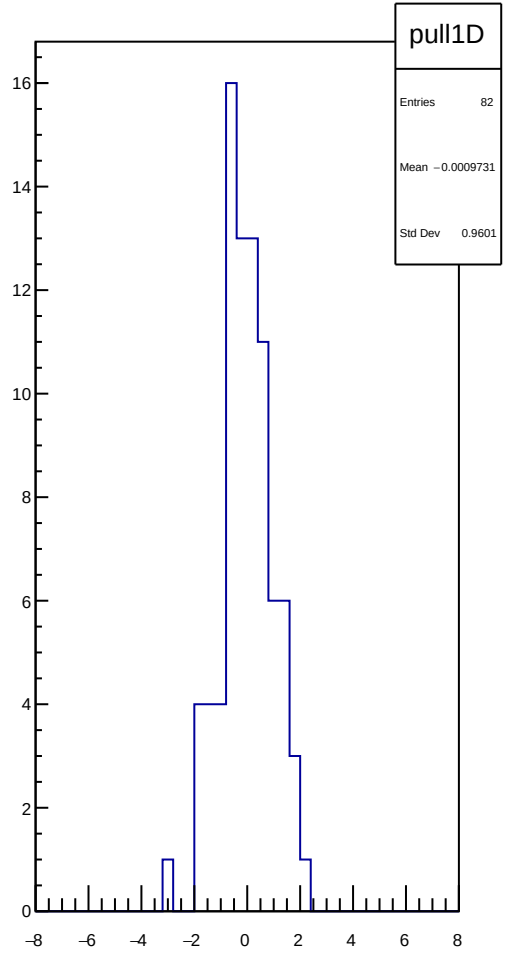

asym_atl_dd_correction_rms vs run
χ² / ndf 3588 / 81
p0 4271 ± 3.38
5000
4800
4600
4400
4200
4000
3800

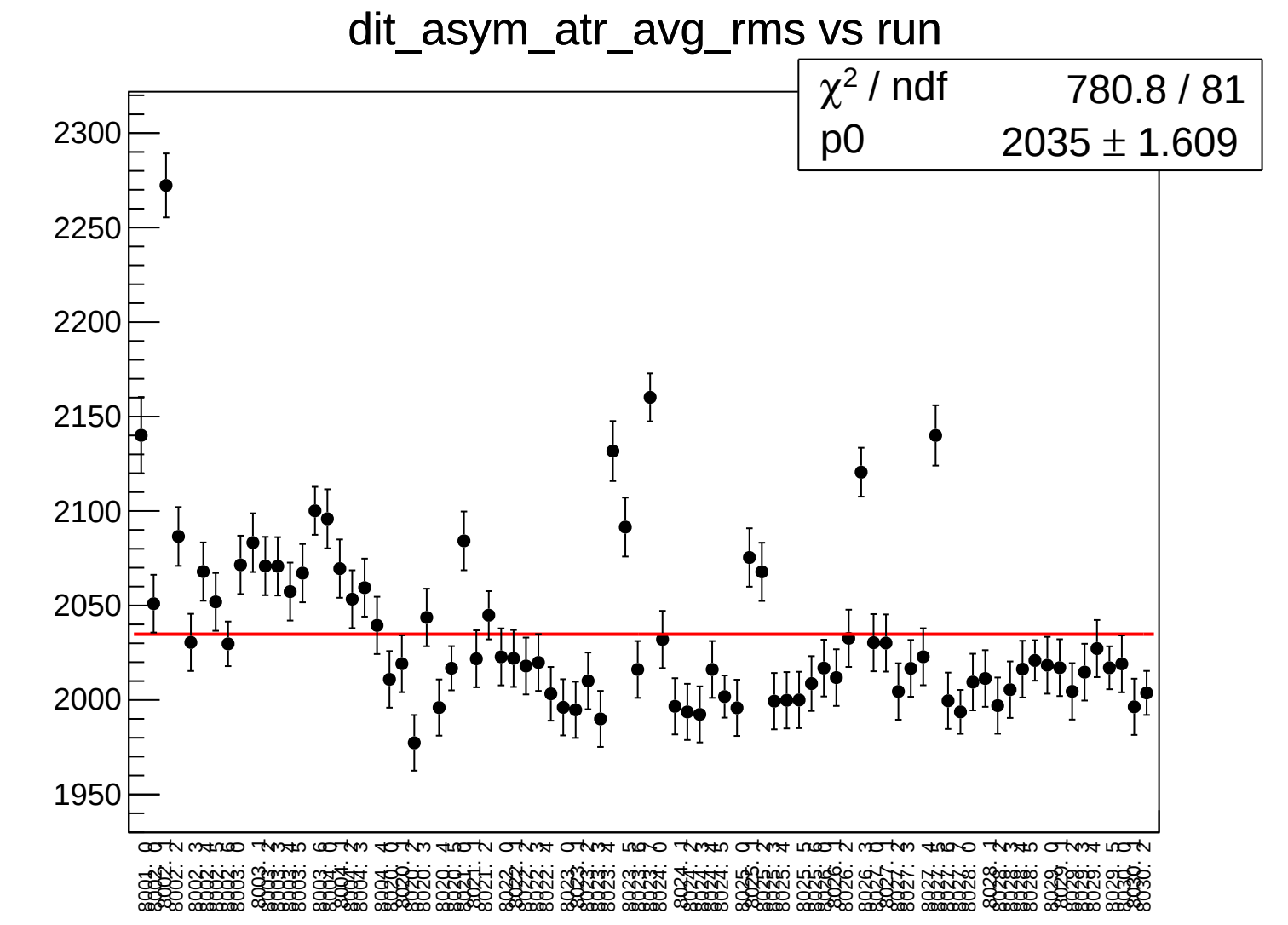

asym_atl_dd_mean vs run
×10^3
χ² / ndf 79.43 / 81
p0 −270.2 ± 5116
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 753.7
Std Dev 711.9
2
1
0
−1
−2

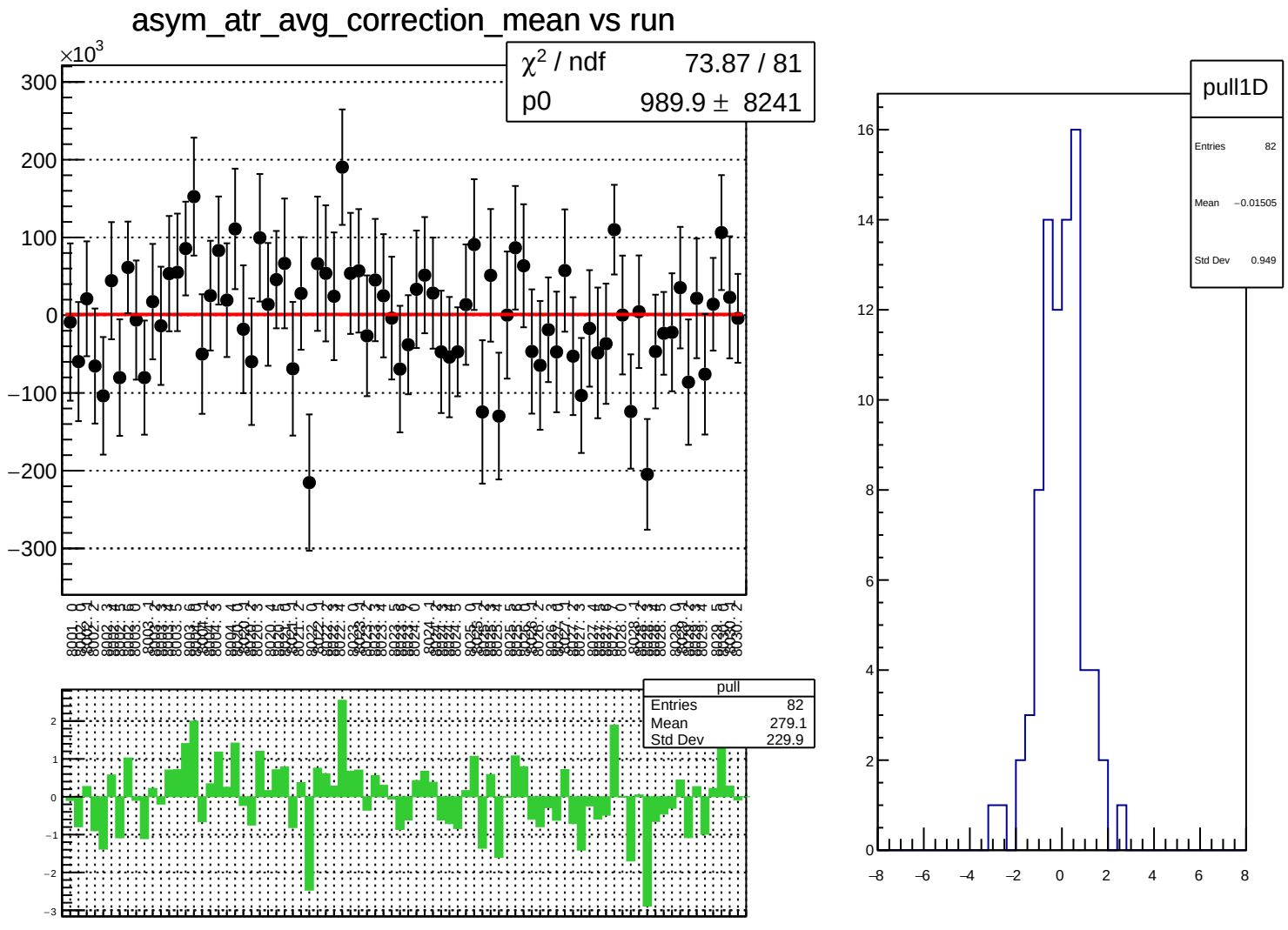

pull1D
Entries 82
Mean −0.005017
Std Dev 0.9842
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

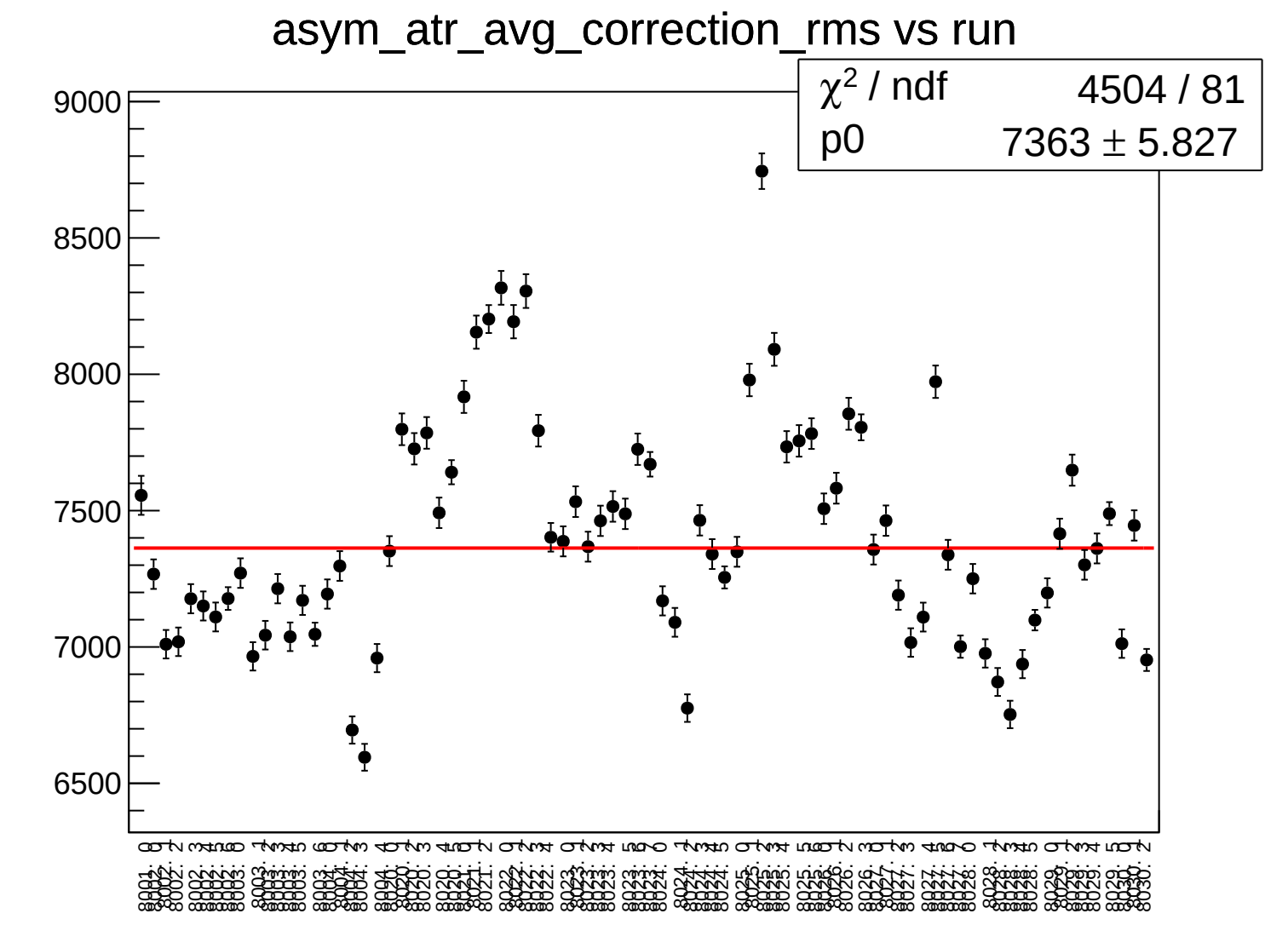

asym_atl_dd_rms vs run
χ^2 / ndf 3342 / 81
p0 4572 ± 3.618
5200
5000
4800
4600
4400
4200

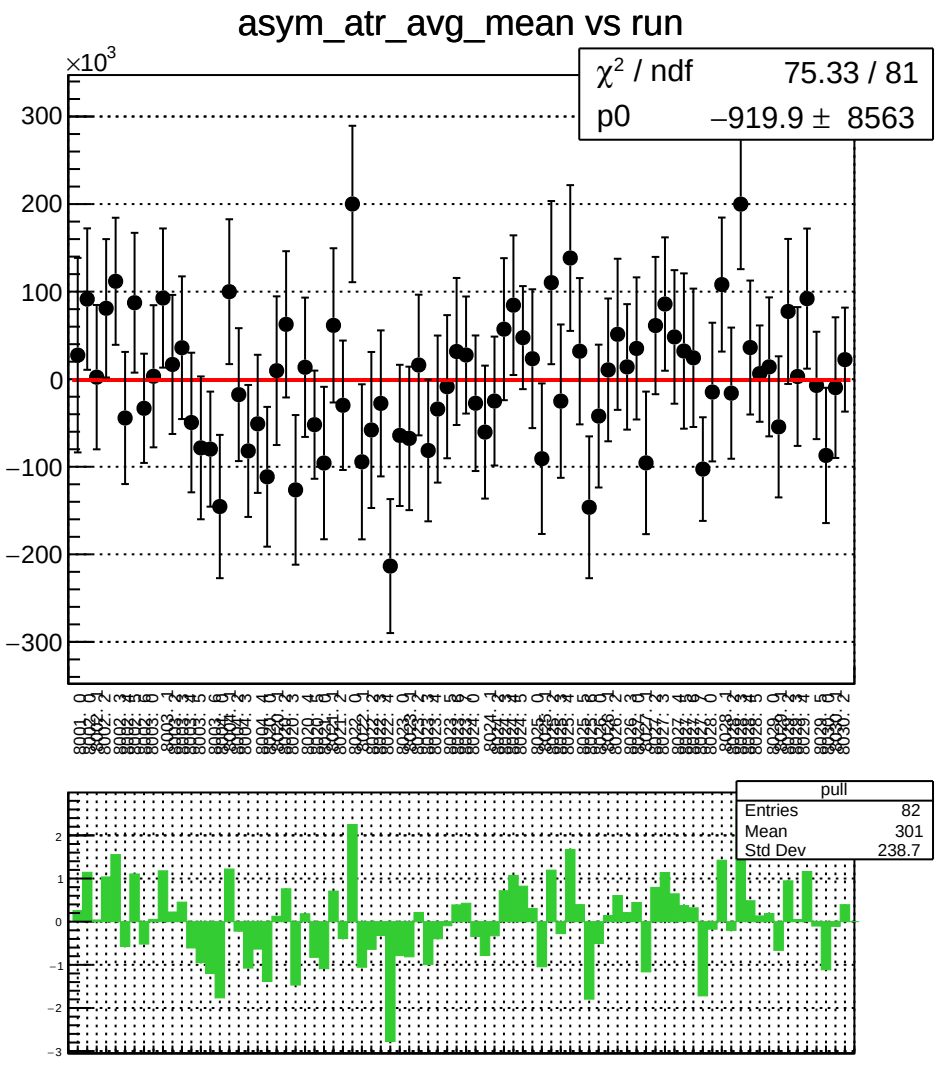

dit_asym_atr_avg_mean vs run
χ² / ndf 75.59 / 81
p0 −747 ± 2275
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 3675
Std Dev 3658
2
1
0
−1
−2
−3

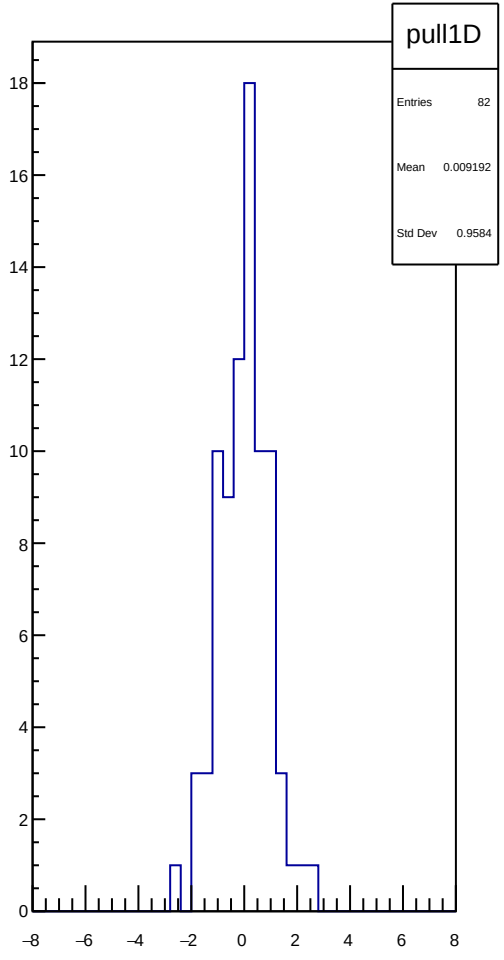

pull1D
Entries 82
Mean −0.0009731
Std Dev 0.9601
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

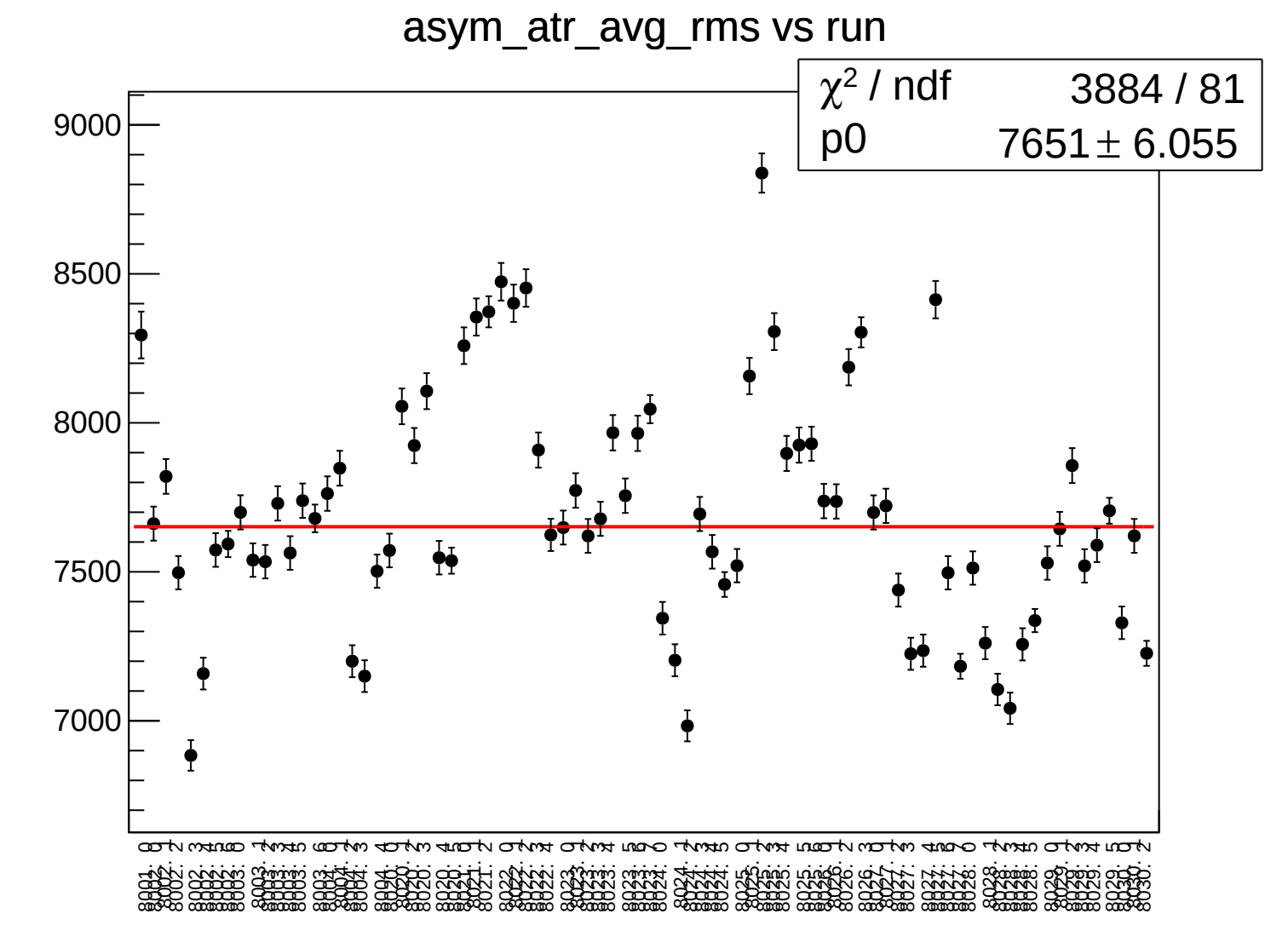

dit_asym_atr_avg_rms vs run
χ² / ndf 780.8 / 81
p0 2035 ± 1.609
2300
2250
2200
2150
2100
2050
2000
1950

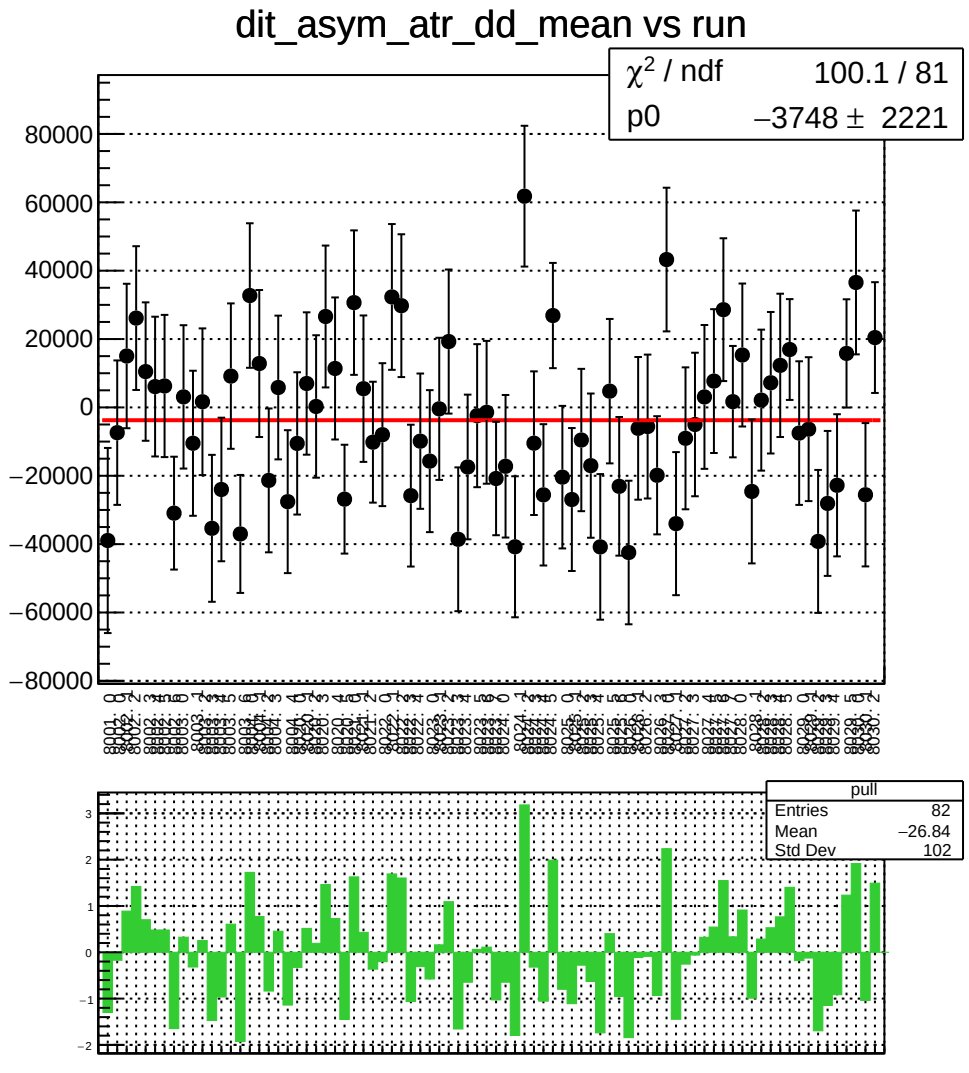

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 73.87 / 81
p0 989.9 ± 8241
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean 279.1
Std Dev 229.9
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.01505
Std Dev 0.949
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

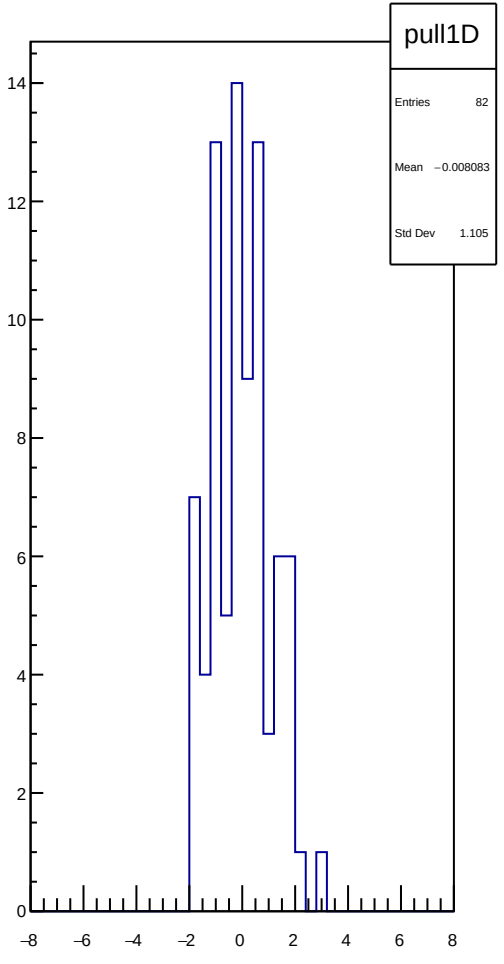

asym_atr_avg_correction_rms vs run
χ² / ndf 4504 / 81
p0 7363 ± 5.827
9000
8500
8000
7500
7000
6500

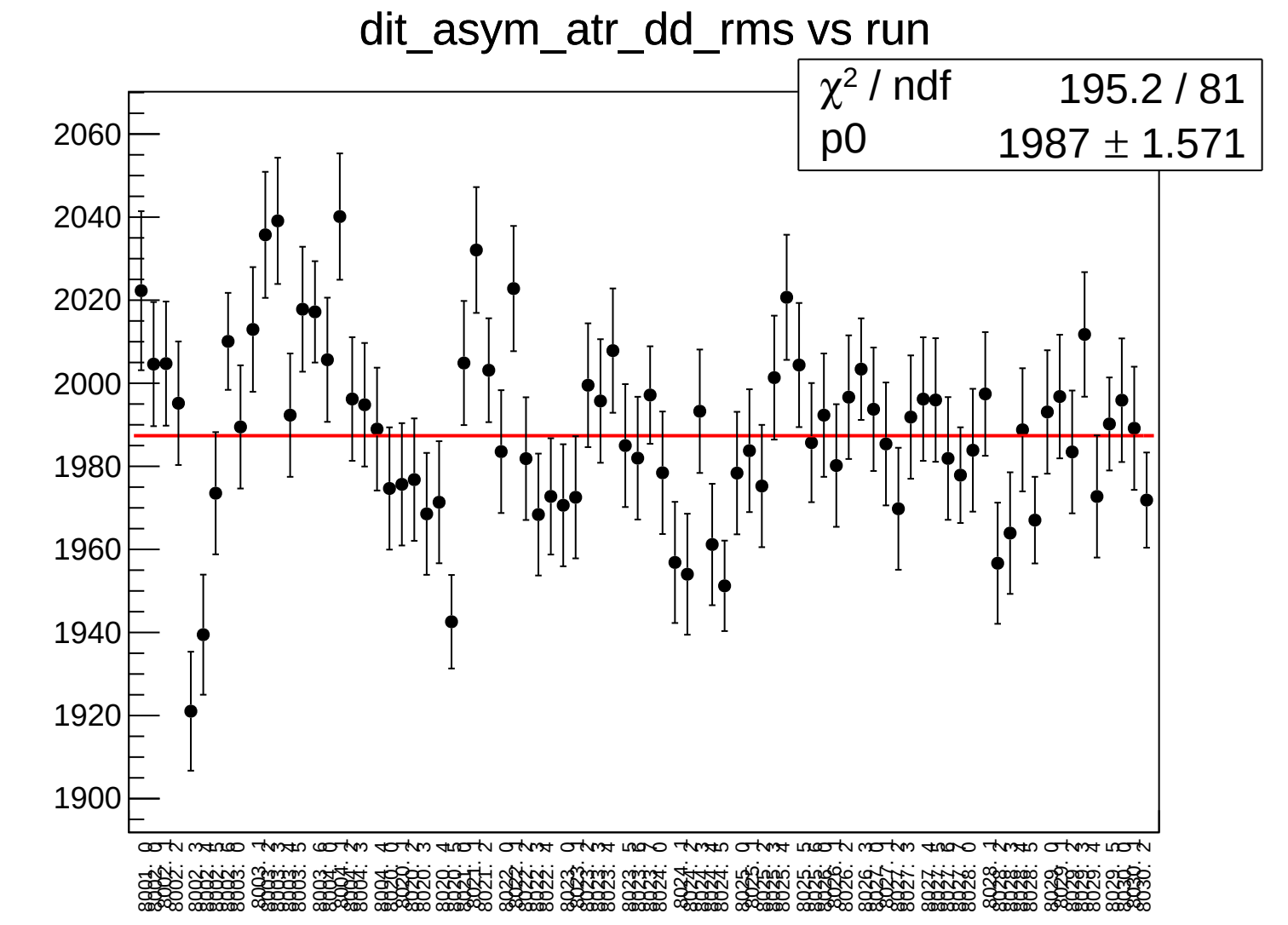

asym_atr_avg_mean vs run
×10^3
χ² / ndf 75.33 / 81
p0 −919.9 ± 8563
pull
Entries 82
Mean 301
Std Dev 238.7

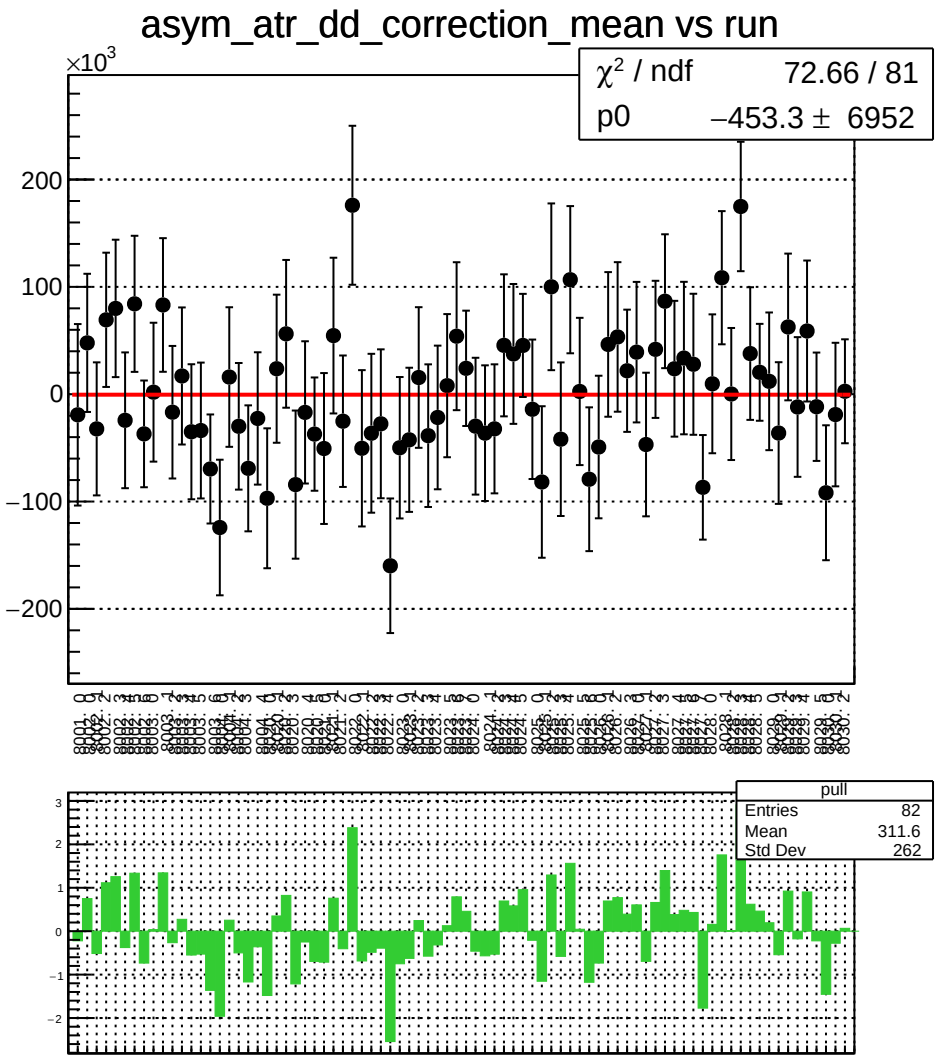

pull1D
Entries 82
Mean 0.009192
Std Dev 0.9584

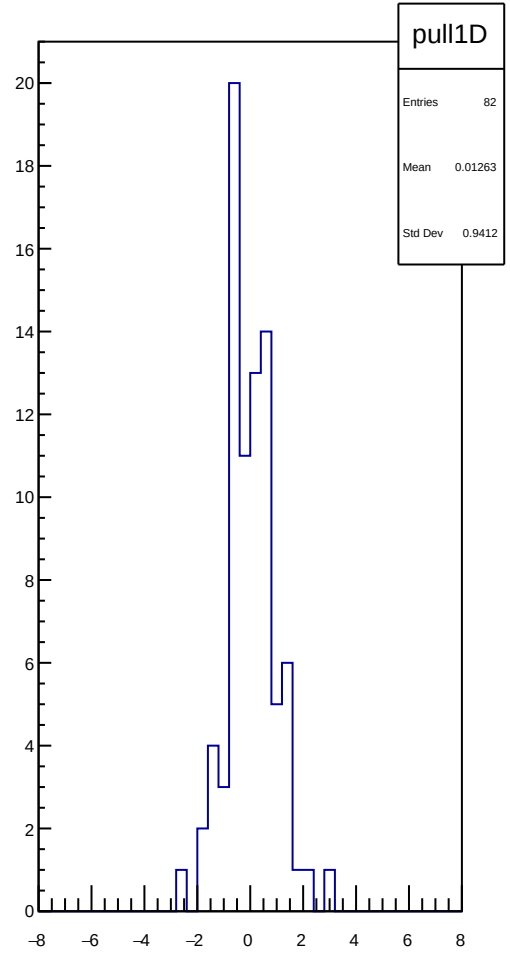

asym_atr_avg_rms vs run
χ² / ndf 3884 / 81
p0 7651 ± 6.055
9000
8500
8000
7500
7000

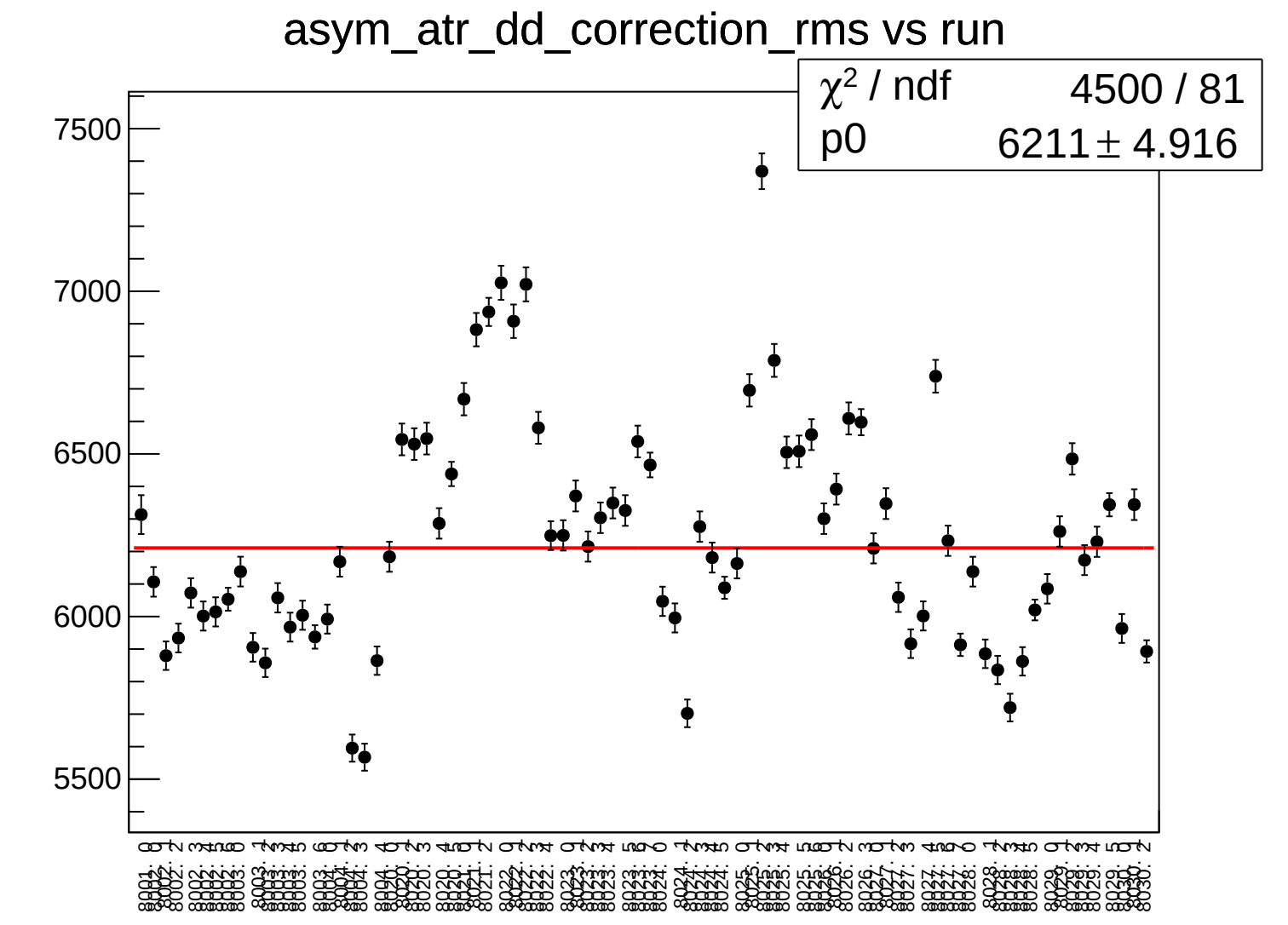

dit_asym_atr_dd_mean vs run
χ² / ndf 100.1 / 81
p0 −3748 ± 2221
pull
Entries 82
Mean −26.84
Std Dev 102

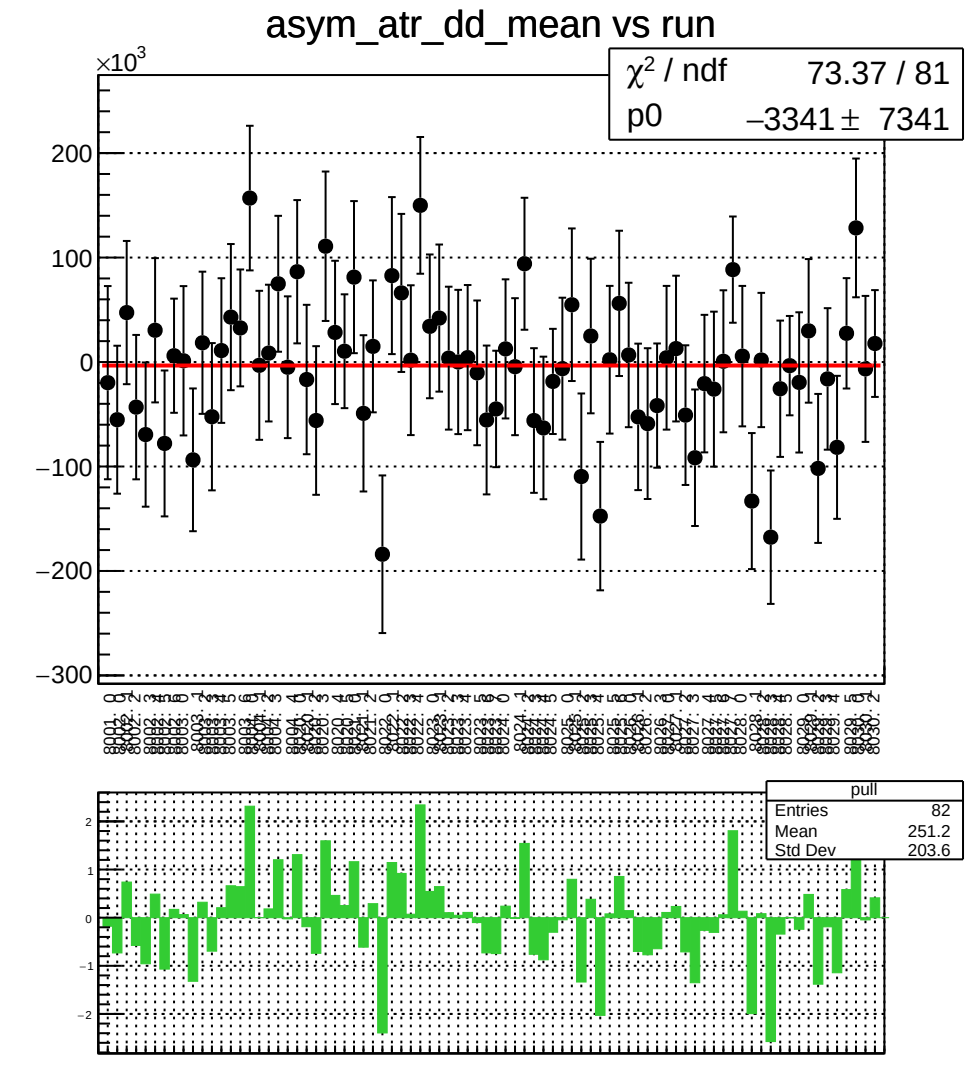

pull1D
Entries 82
Mean −0.008083
Std Dev 1.105

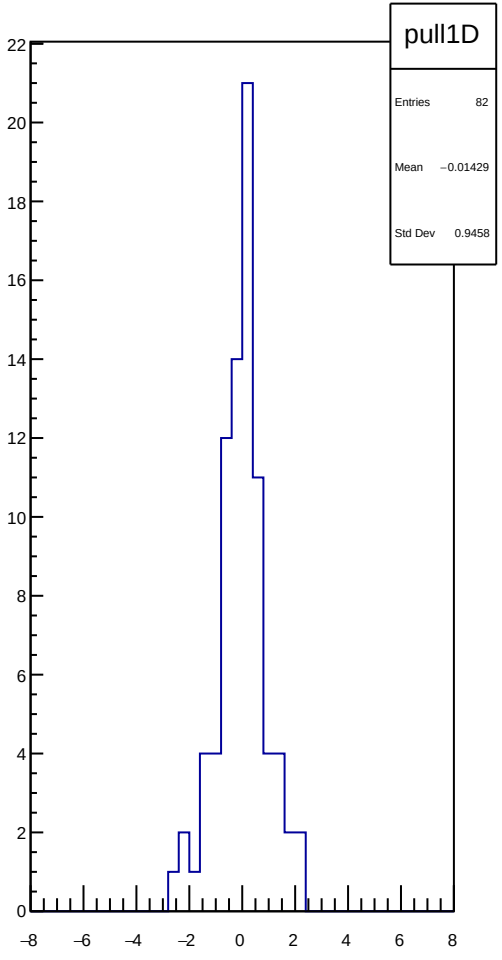

dit_asym_atr_dd_rms vs run
χ² / ndf 195.2 / 81
p0 1987 ± 1.571
2060
2040
2020
2000
1980
1960
1940
1920
1900

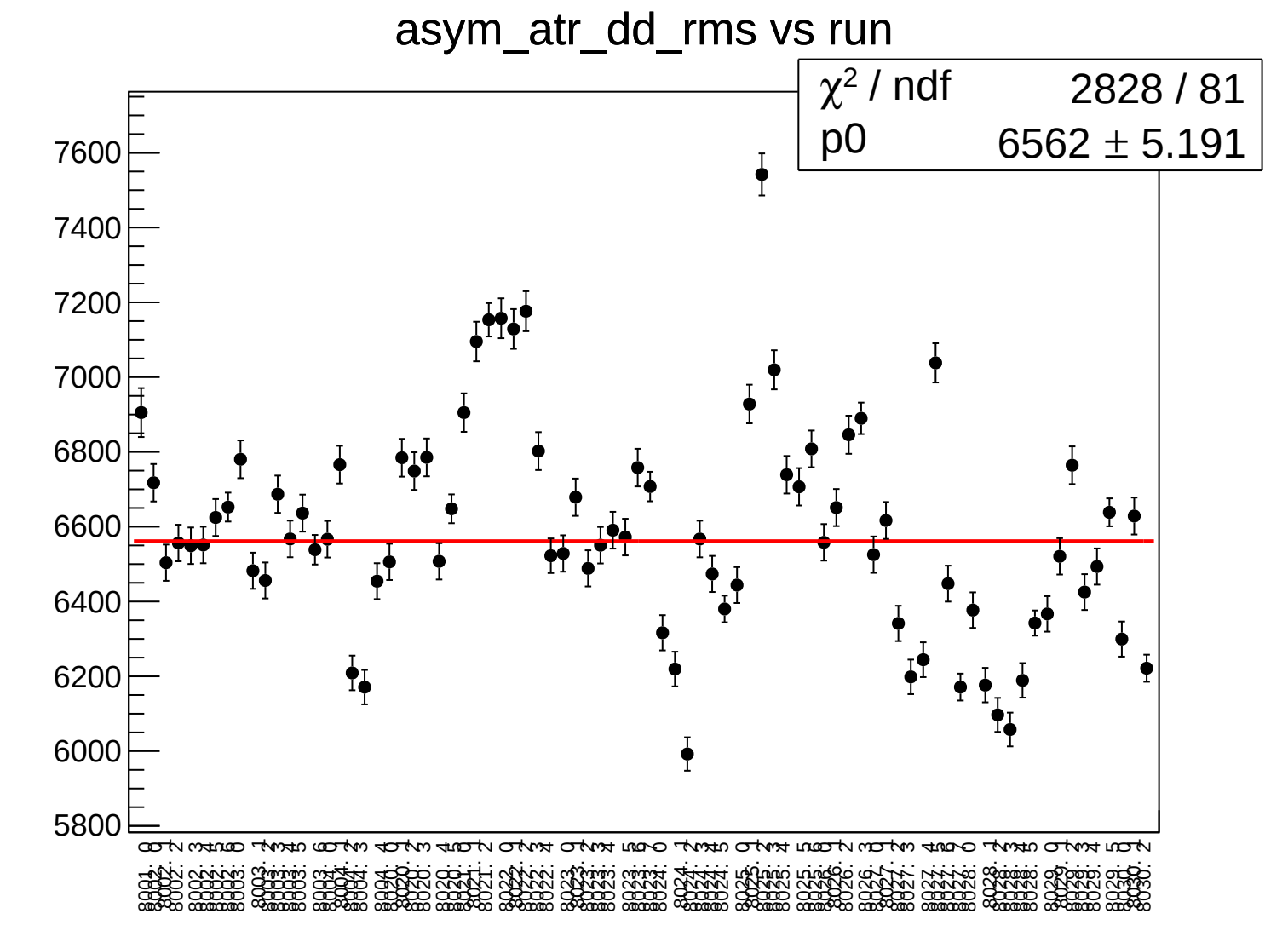

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 72.66 / 81
p0 −453.3 ± 6952
200
100
0
−100
−200
pull
Entries 82
Mean 311.6
Std Dev 262
3
2
1
0
−1
−2

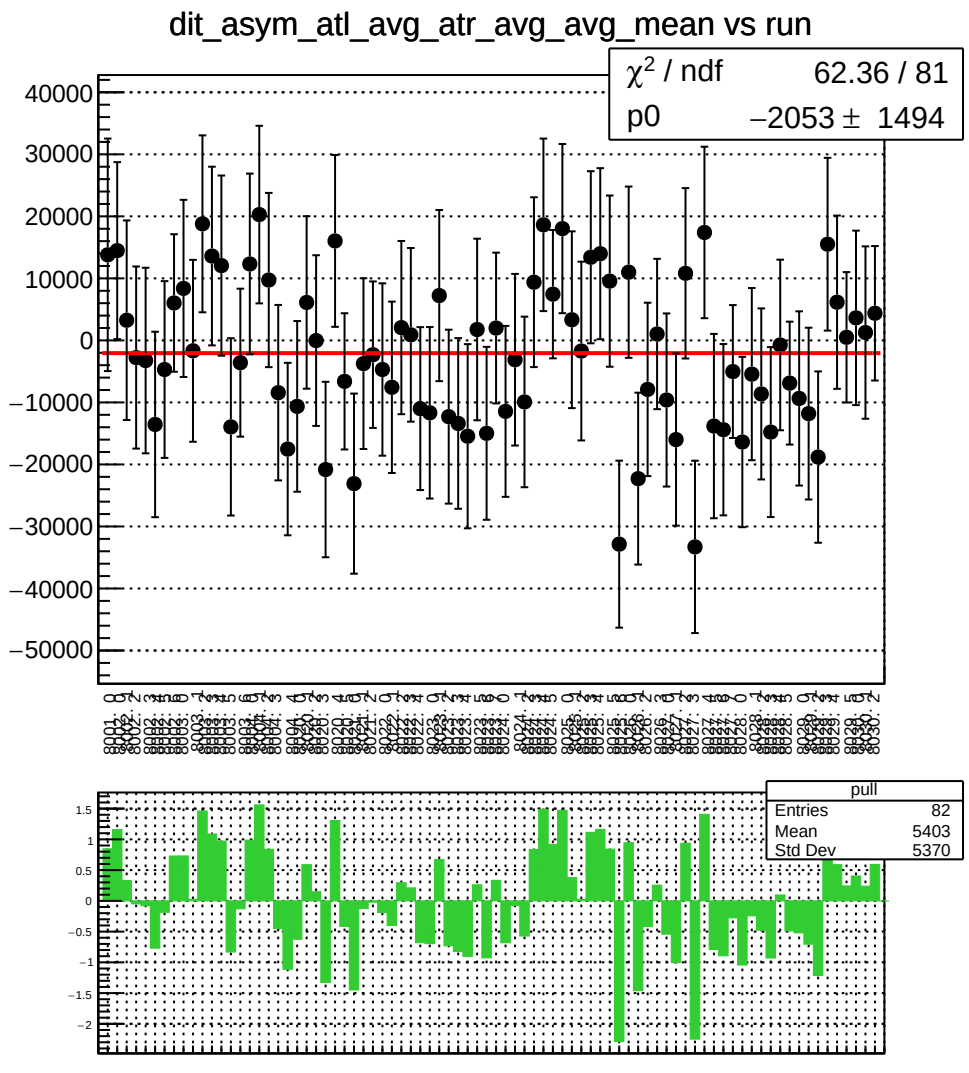

pull1D
Entries 82
Mean 0.01263
Std Dev 0.9412
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

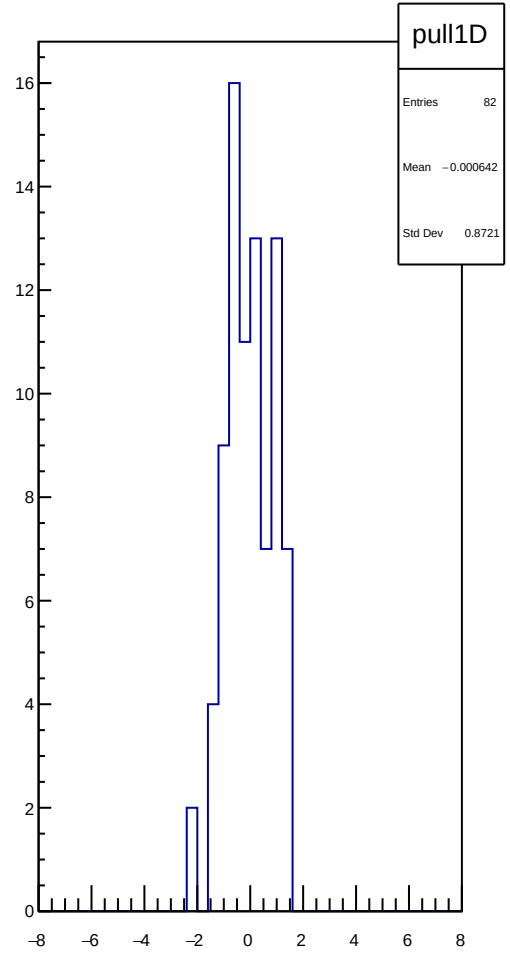

asym_atr_dd_correction_rms vs run
χ² / ndf 4500 / 81
p0 6211 ± 4.916
7500
7000
6500
6000
5500

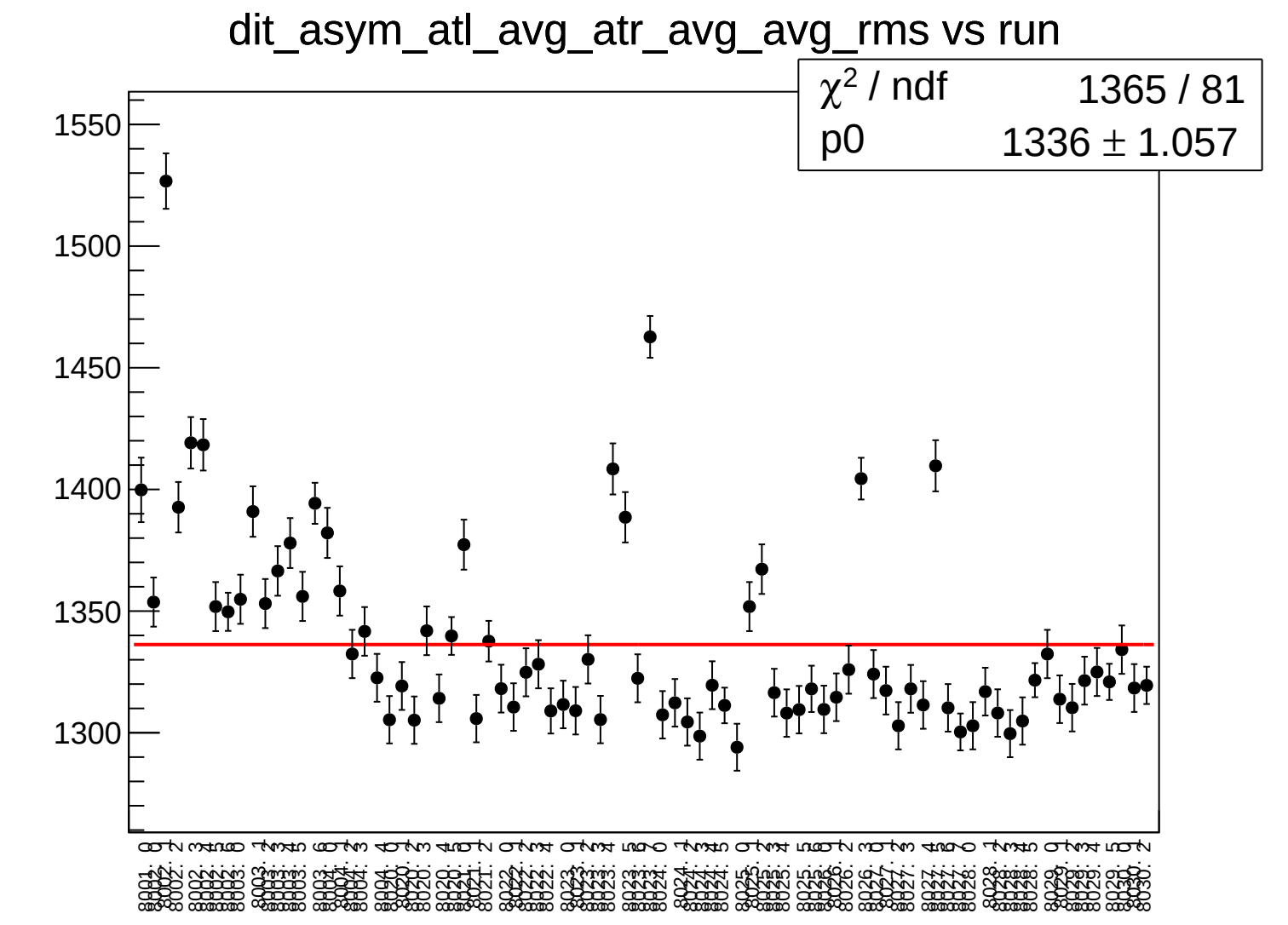

asym_atr_dd_mean vs run
×10^3
χ² / ndf 73.37 / 81
p0 −3341 ± 7341
200
100
0
−100
−200
−300
pull
Entries 82
Mean 251.2
Std Dev 203.6
2
1
0
−1
−2

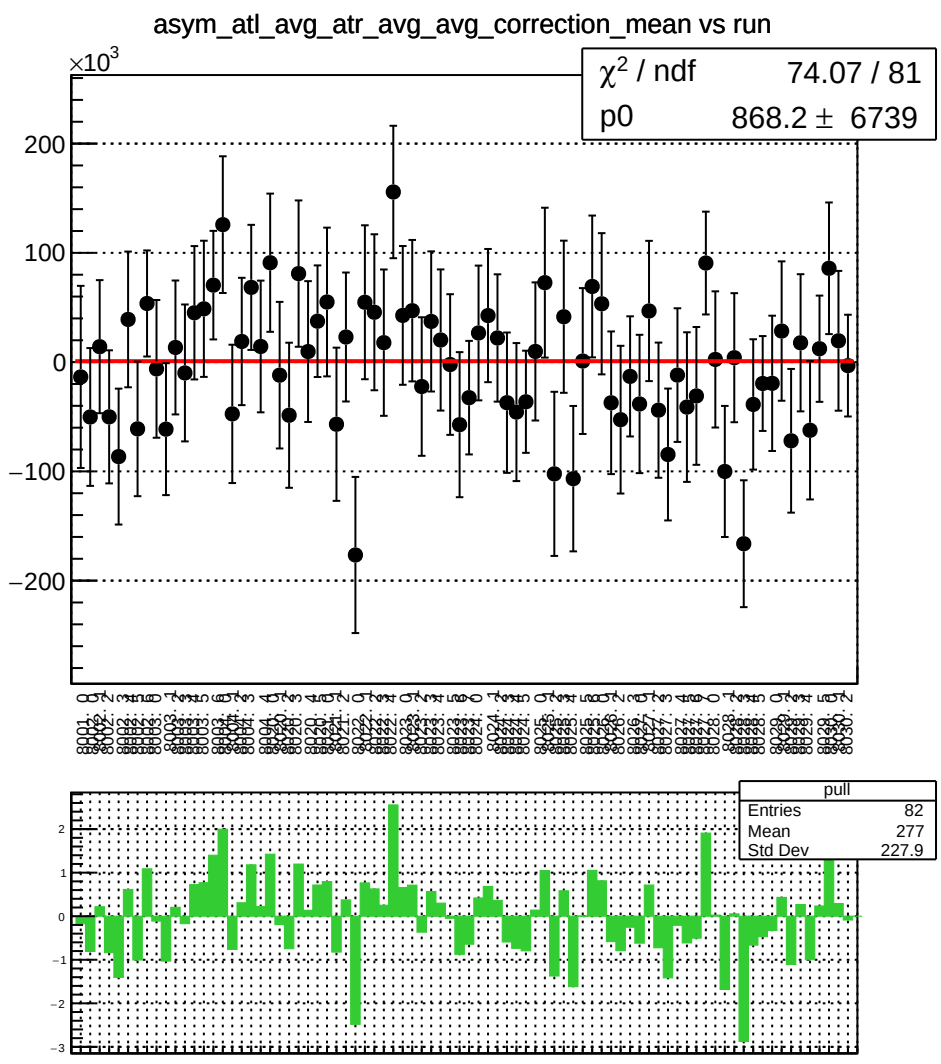

pull1D
Entries 82
Mean −0.01429
Std Dev 0.9458
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

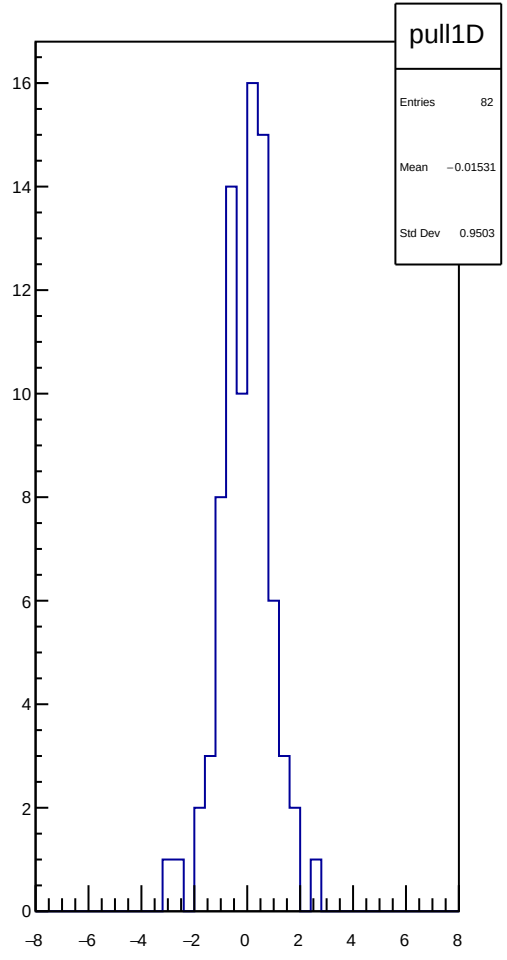

asym_atr_dd_rms vs run
χ^2 / ndf 2828 / 81
p0 6562 ± 5.191
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

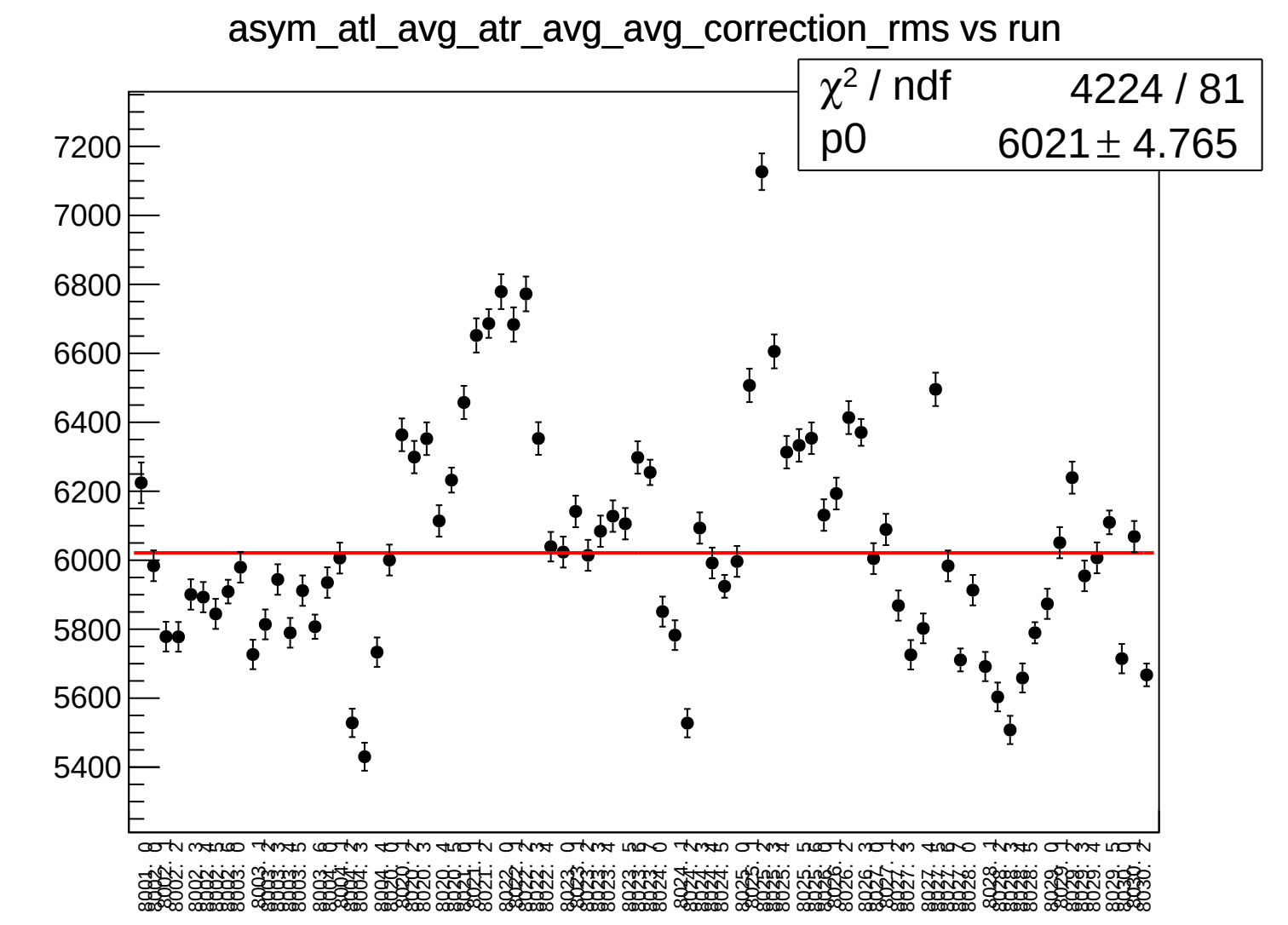

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 62.36 / 81
p0 −2053 ± 1494
pull
Entries 82
Mean 5403
Std Dev 5370

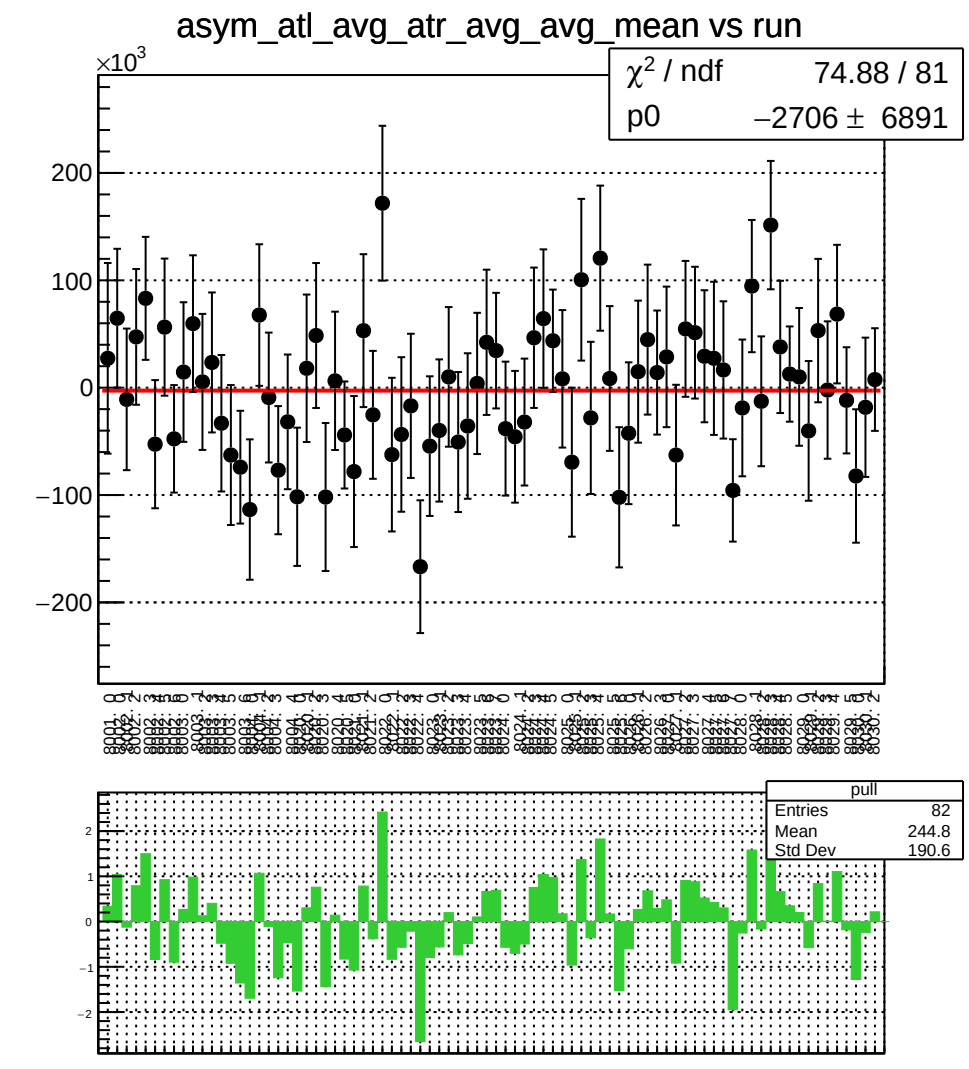

pull1D
Entries 82
Mean −0.000642
Std Dev 0.8721

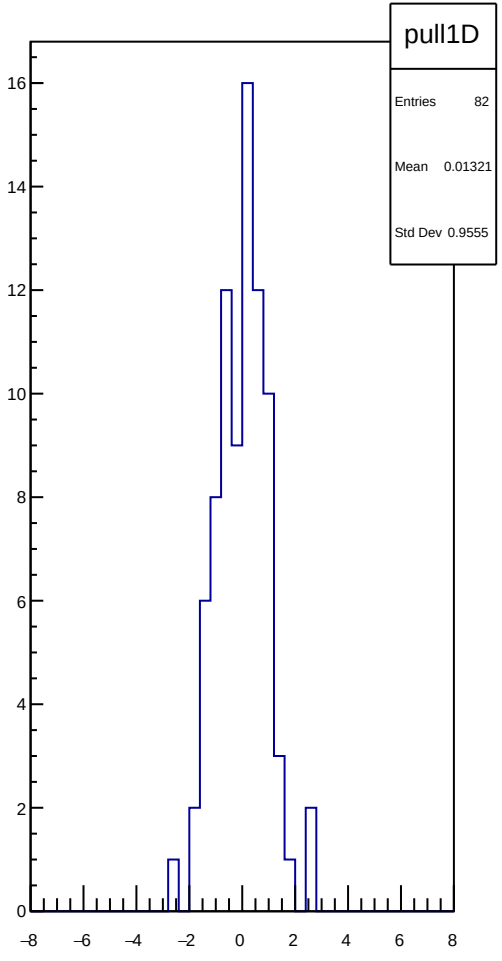

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1365 / 81
p0 1336 ± 1.057
1550
1500
1450
1400
1350
1300

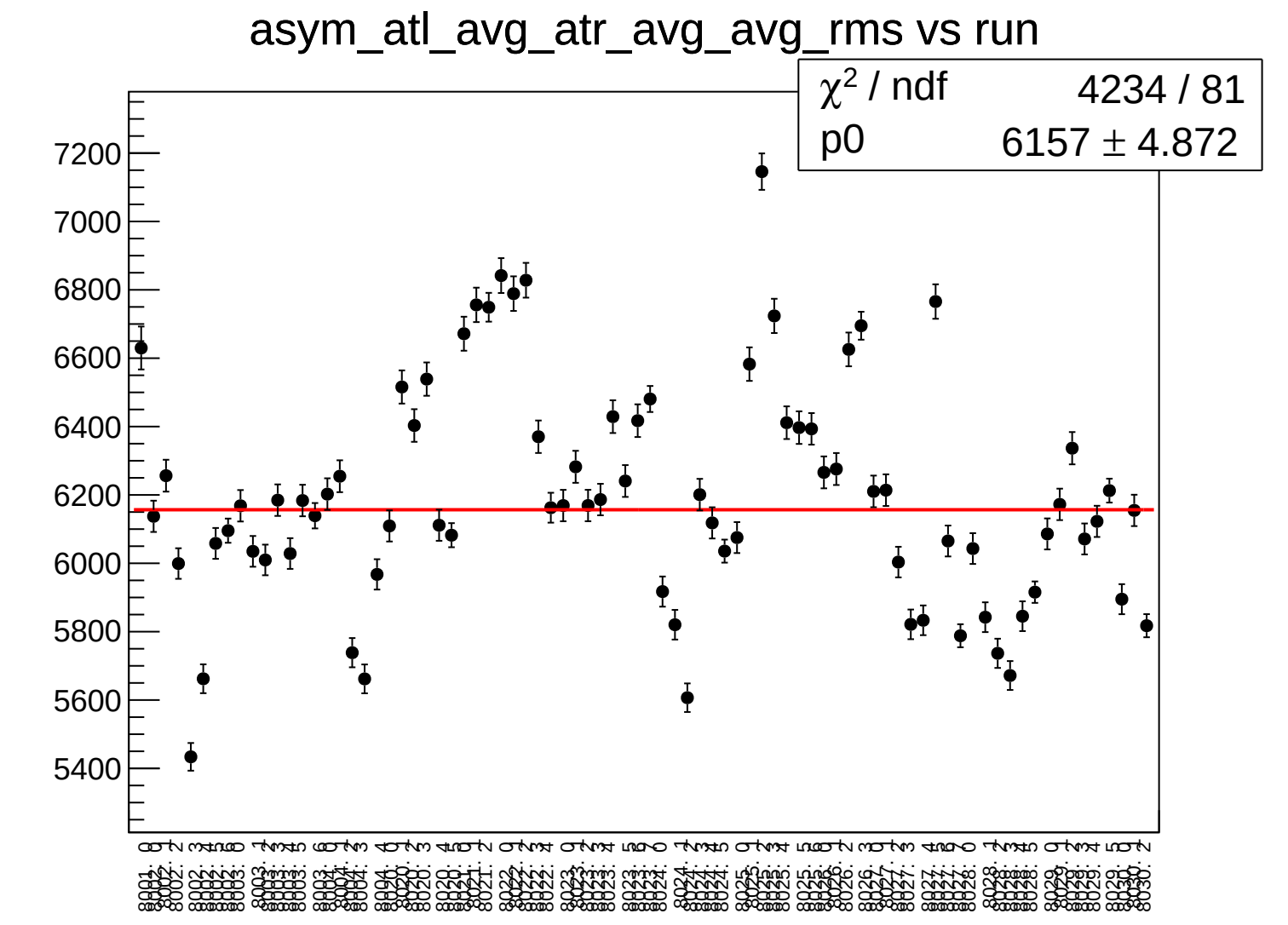

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 74.07 / 81
p0 868.2 ± 6739
200
100
0
−100
−200
pull
Entries 82
Mean 277
Std Dev 227.9
2
1
0
−1
−2
−3

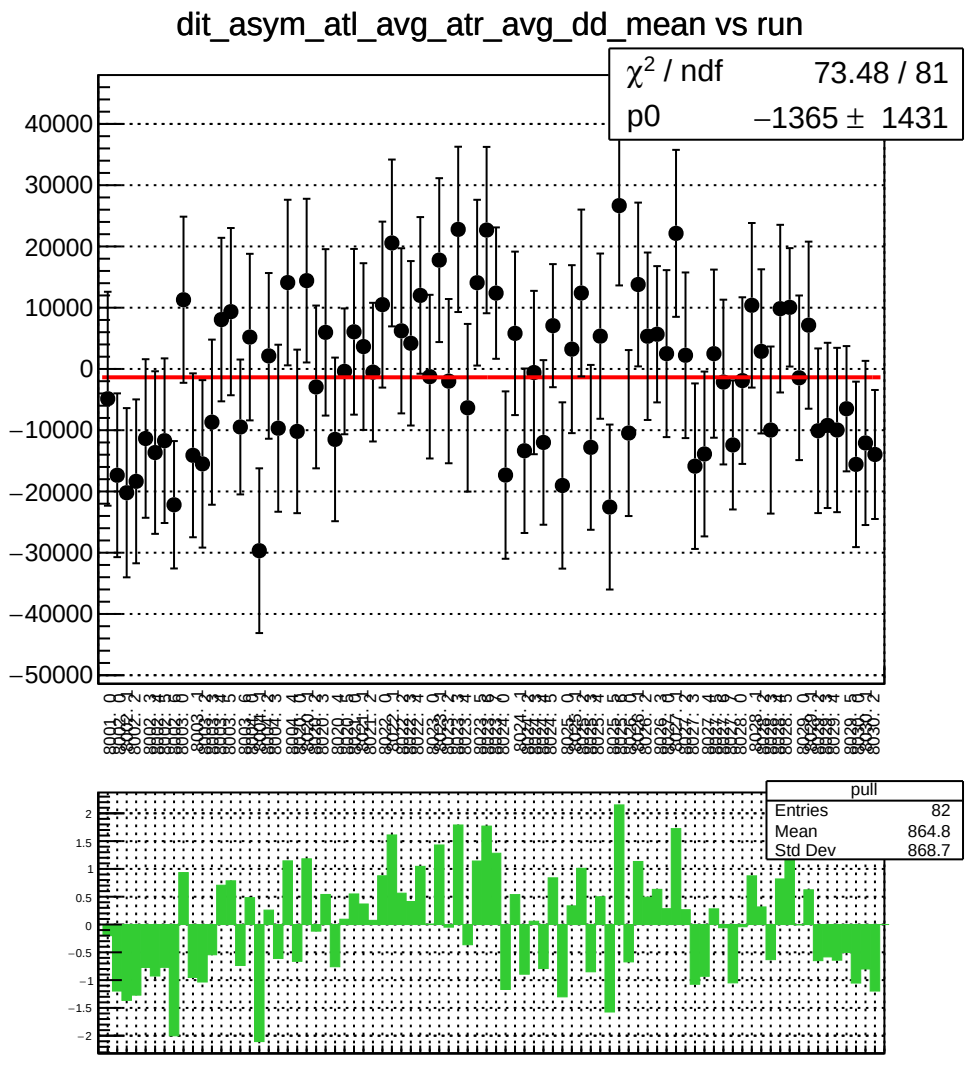

pull1D
Entries 82
Mean −0.01531
Std Dev 0.9503
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

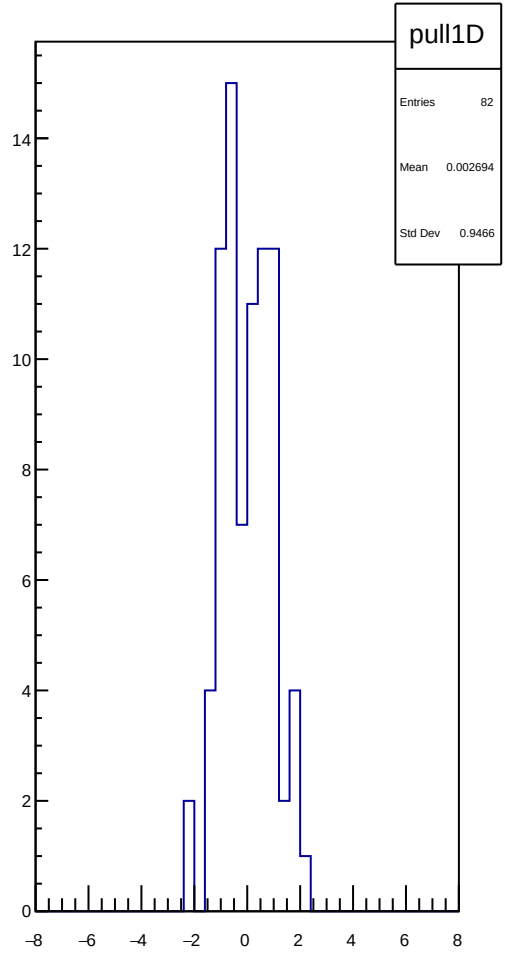

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 4224 / 81
p0 6021 ± 4.765
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

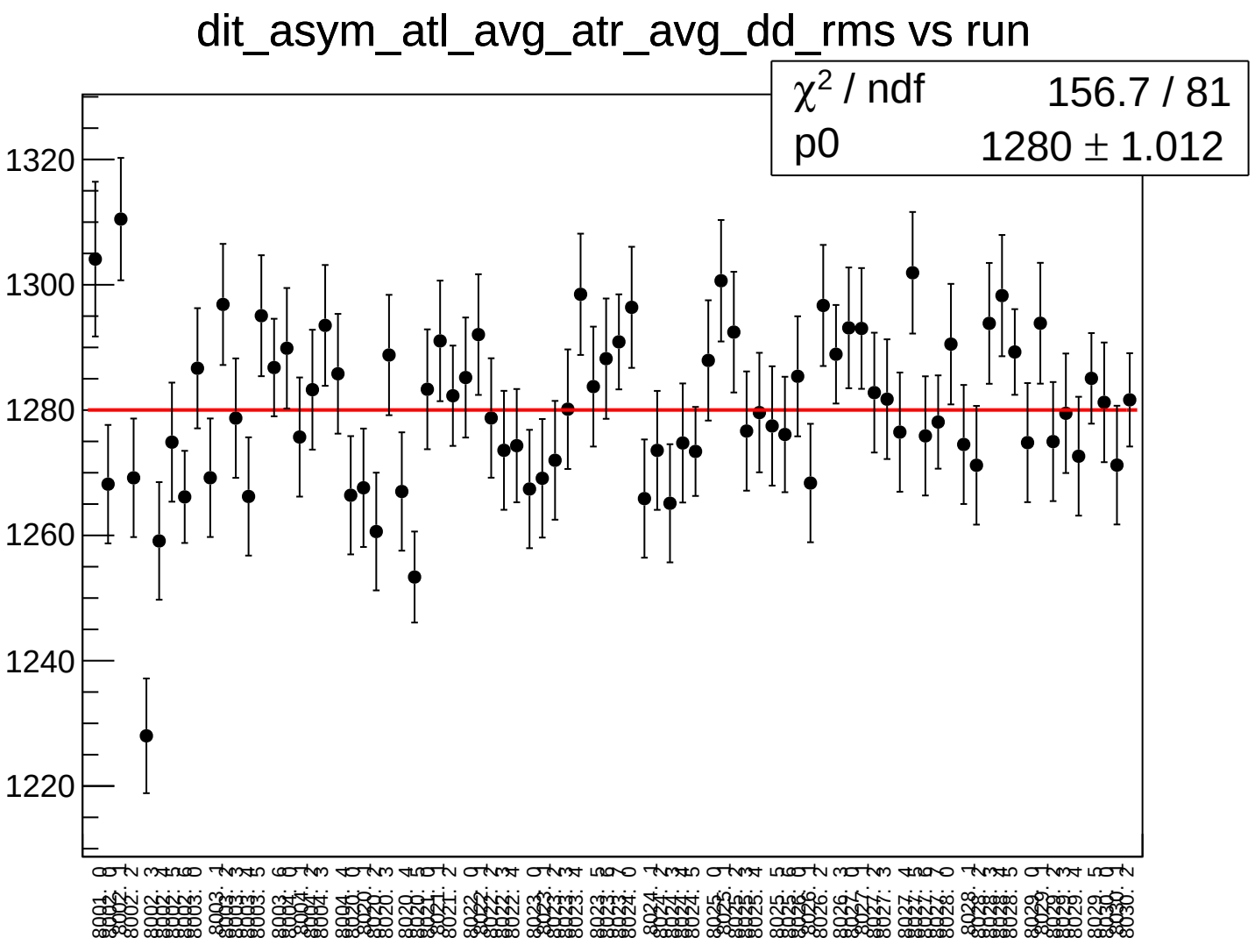

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ^2 / ndf 74.88 / 81
p0 −2706 ± 6891
200
100
0
−100
−200
pull
Entries 82
Mean 244.8
Std Dev 190.6
2
1
0
−1
−2

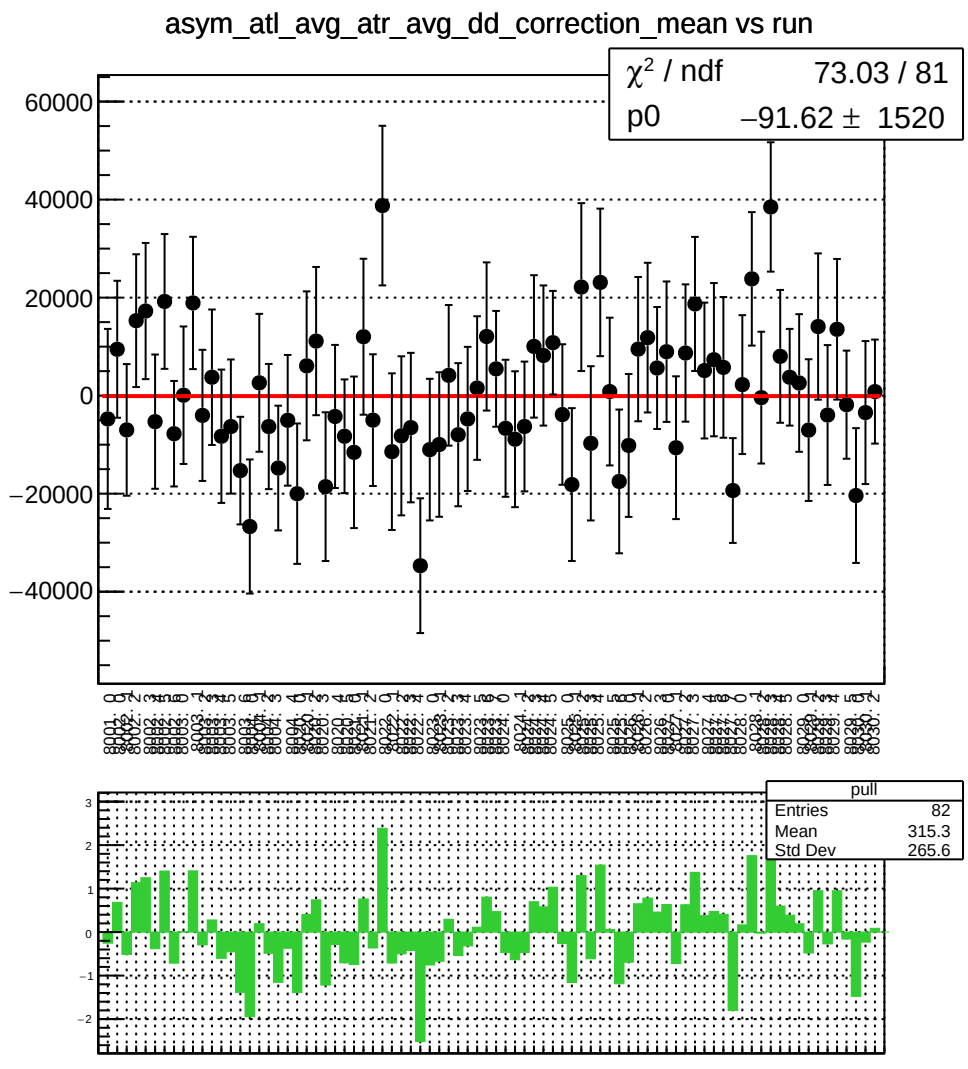

pull1D
Entries 82
Mean 0.01321
Std Dev 0.9555
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

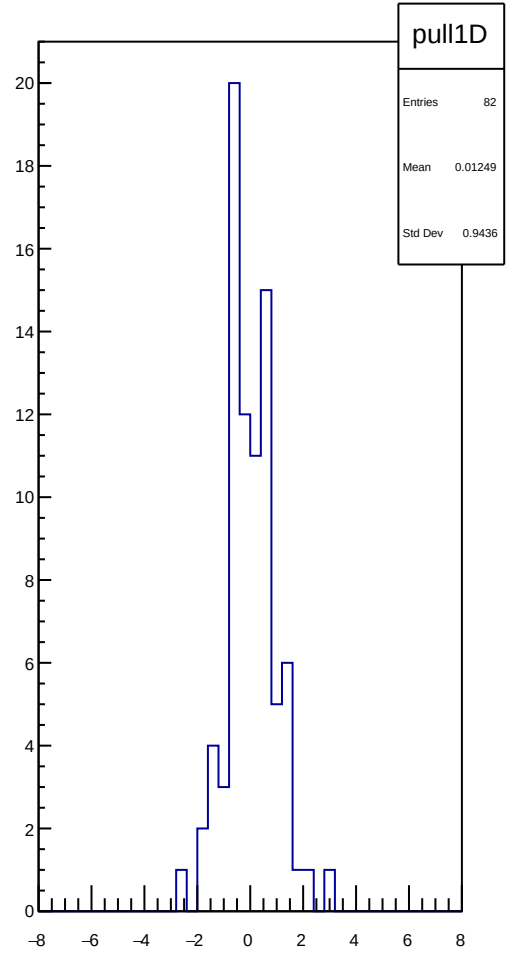

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4234 / 81
p0 6157 ± 4.872
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

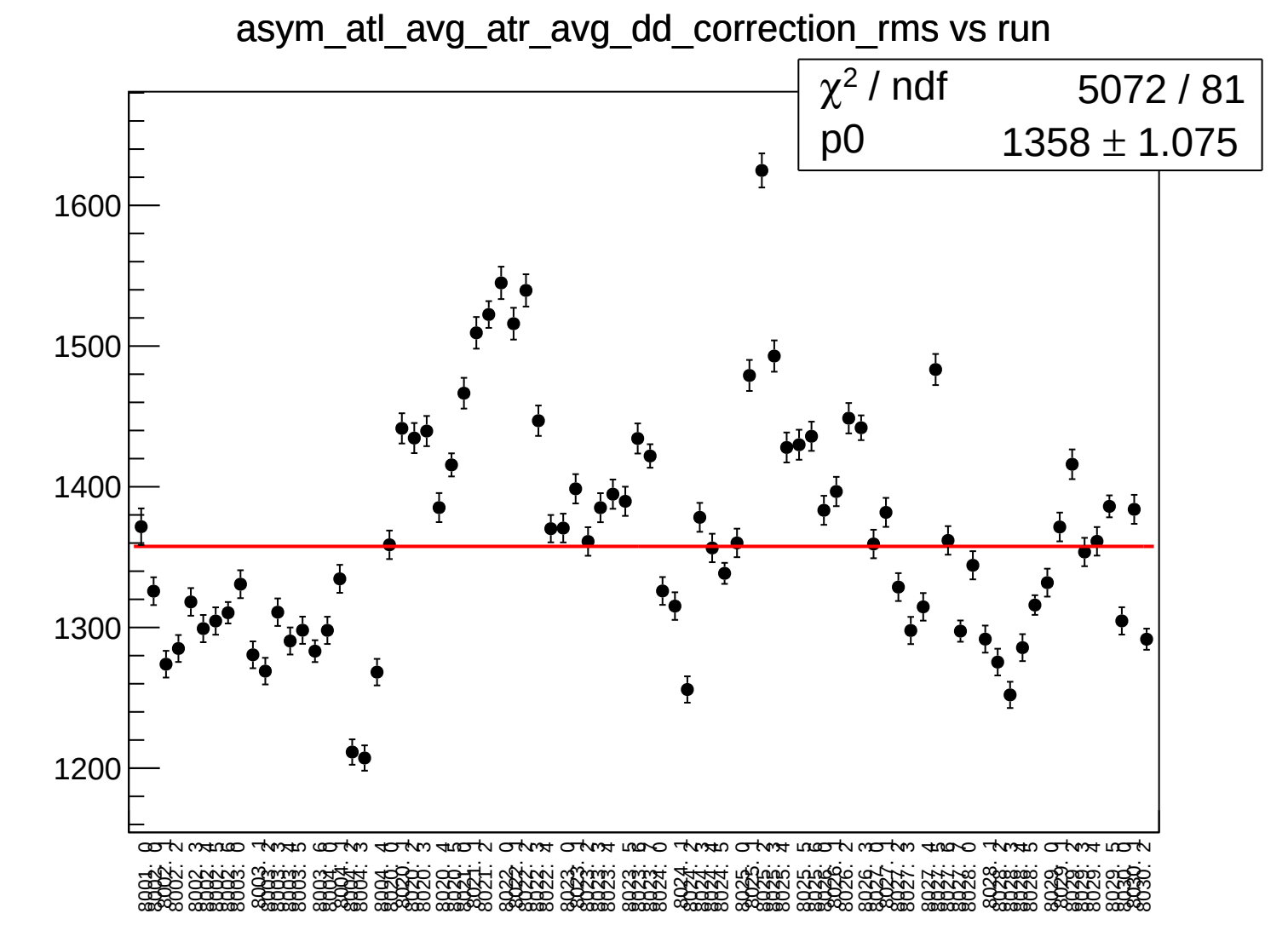

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 73.48 / 81
p0 −1365 ± 1431
pull
Entries 82
Mean 864.8
Std Dev 868.7

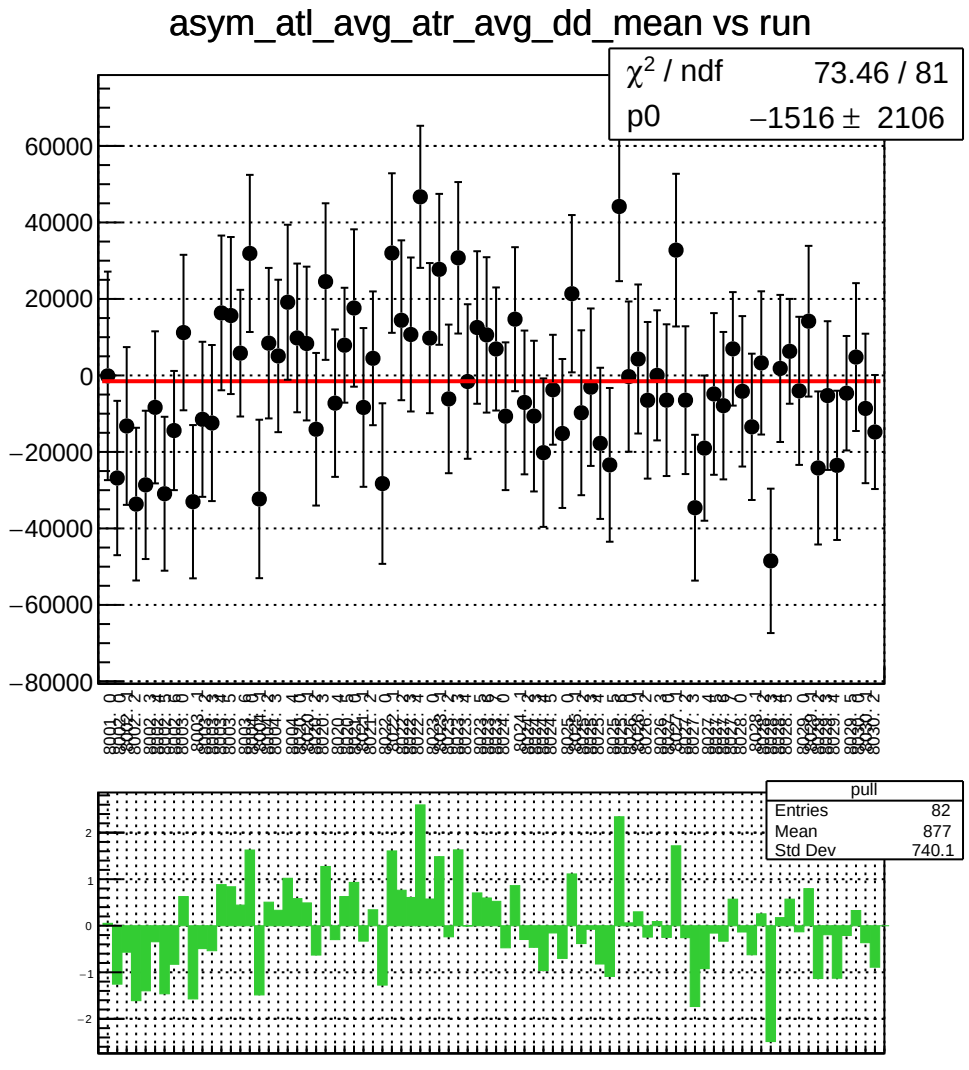

pull1D
Entries 82
Mean 0.002694
Std Dev 0.9466

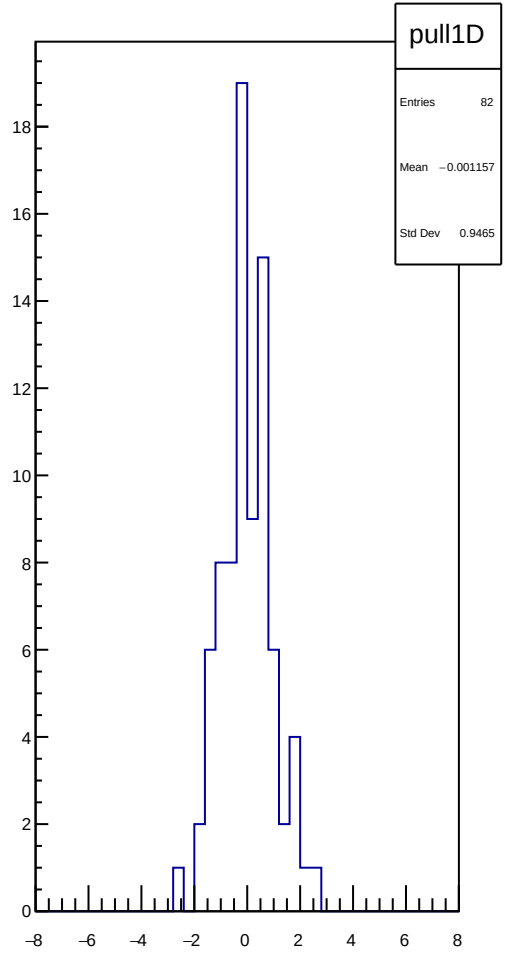

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 156.7 / 81
p0 1280 ± 1.012
1320
1300
1280
1260
1240
1220

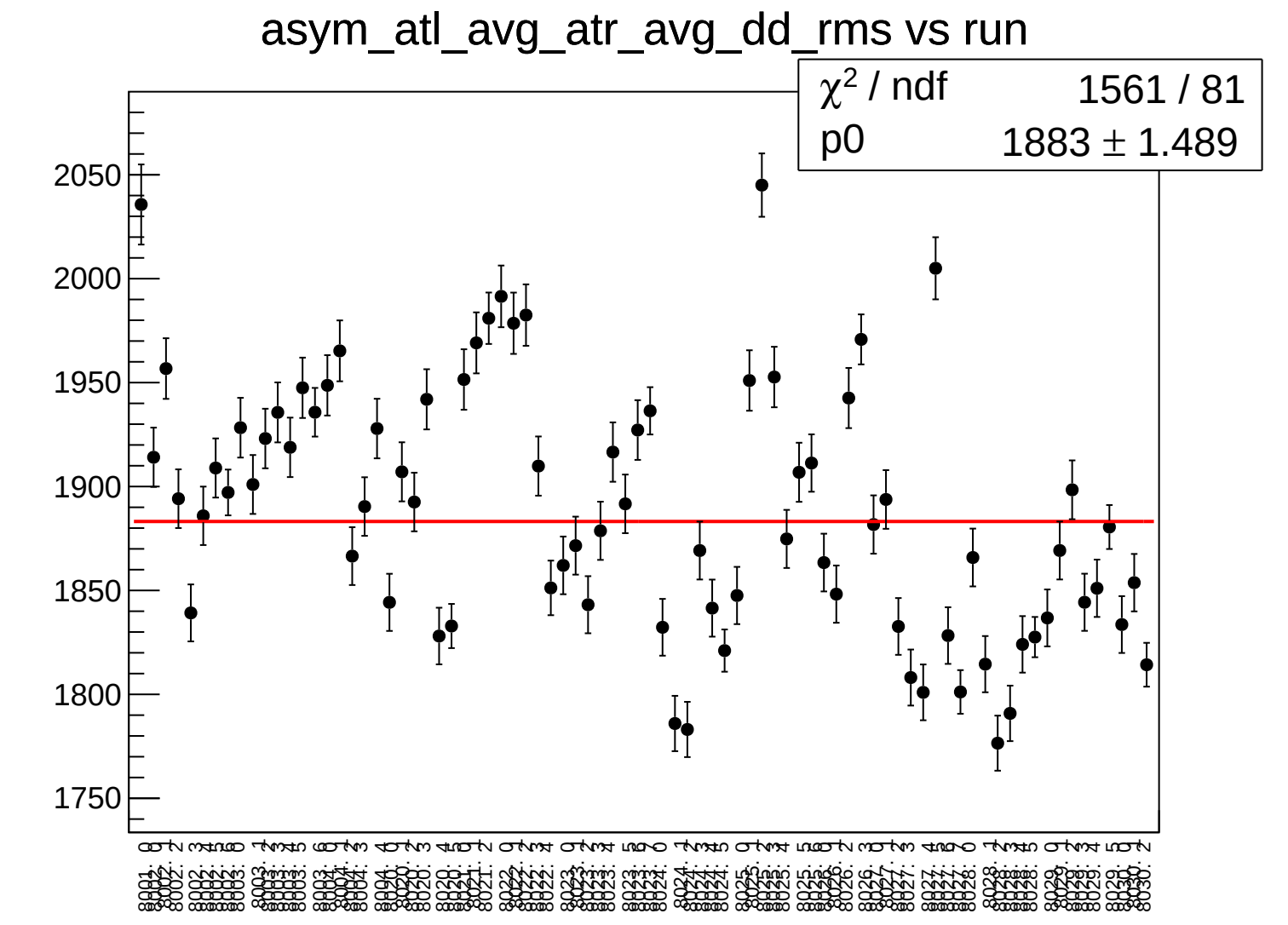

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 73.03 / 81
p0 −91.62 ± 1520
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 315.3
Std Dev 265.6
3
2
1
0
−1
−2

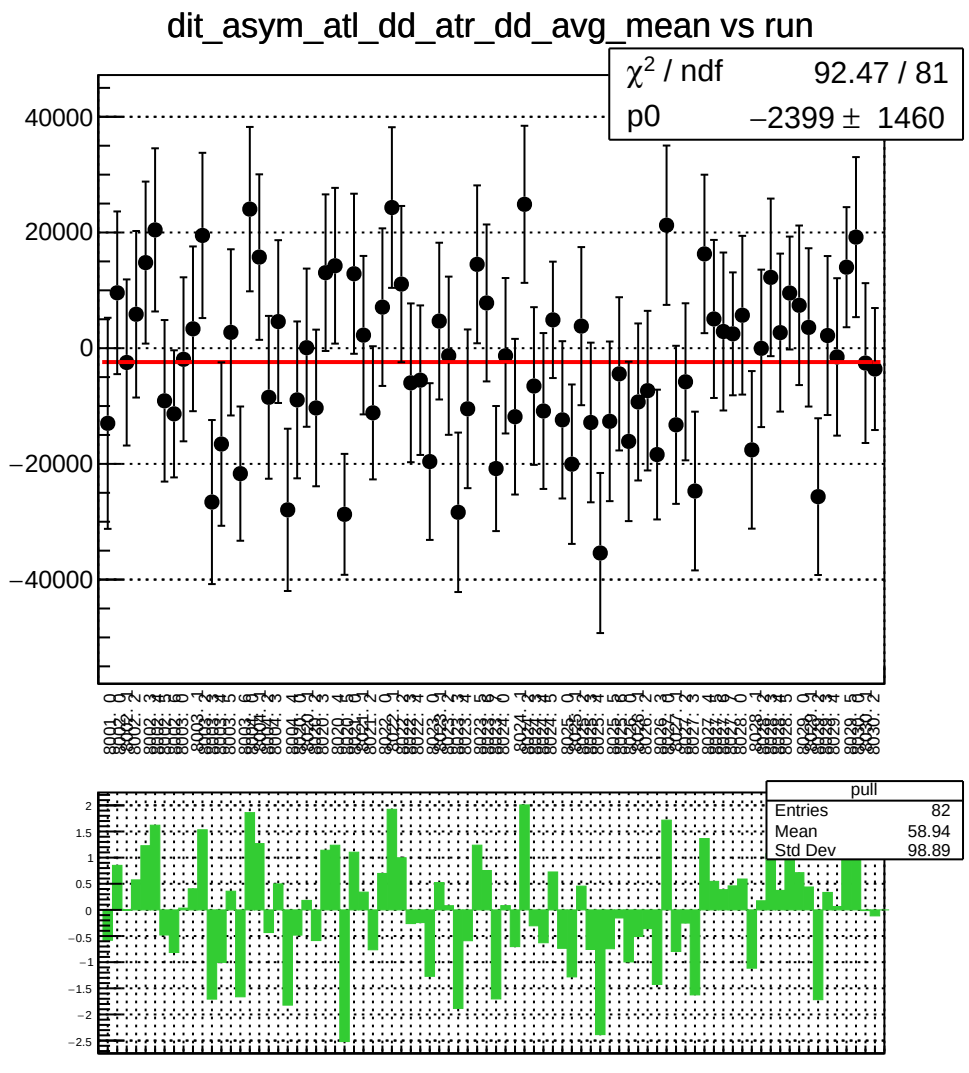

pull1D
Entries 82
Mean 0.01249
Std Dev 0.9436
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

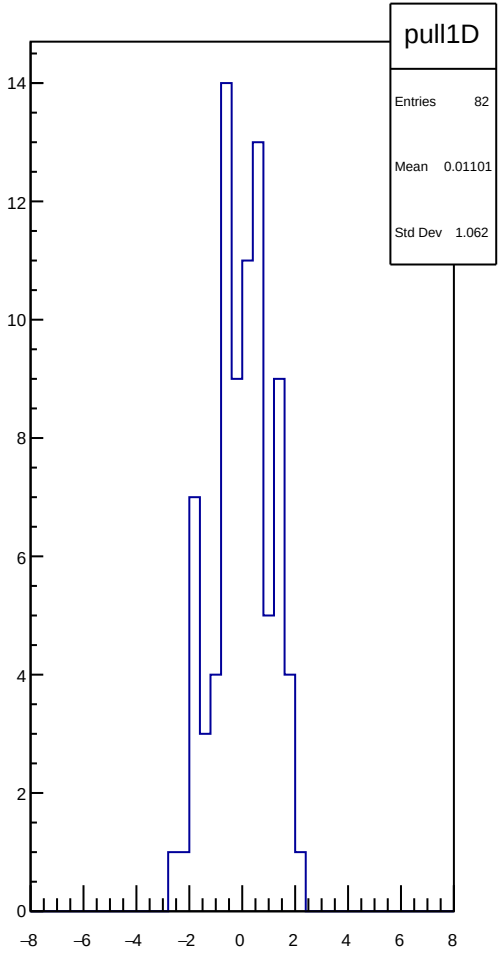

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 5072 / 81
p0 1358 ± 1.075
1600
1500
1400
1300
1200

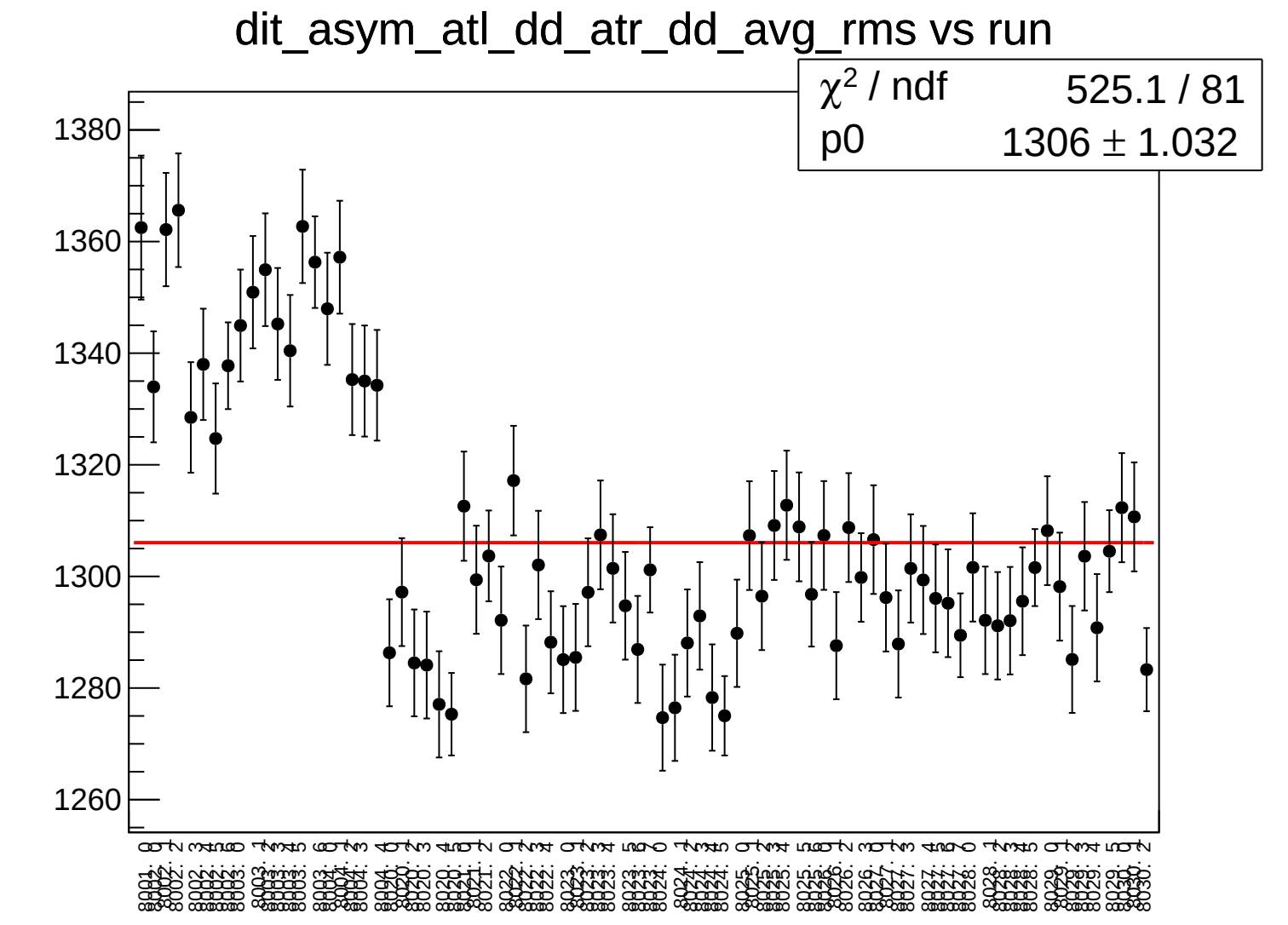

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 73.46 / 81
p0 −1516 ± 2106
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean 877
Std Dev 740.1
2
1
0
−1
−2

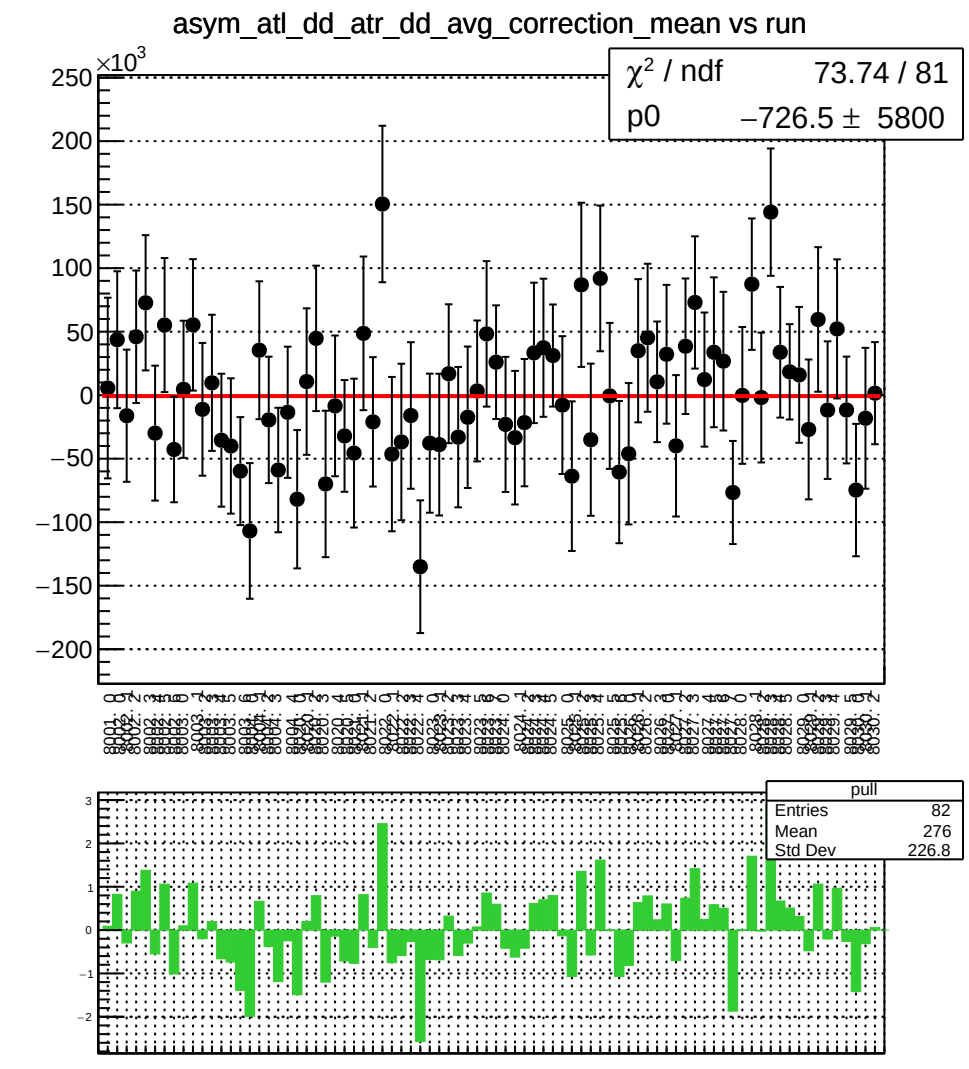

pull1D
Entries 82
Mean −0.001157
Std Dev 0.9465
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

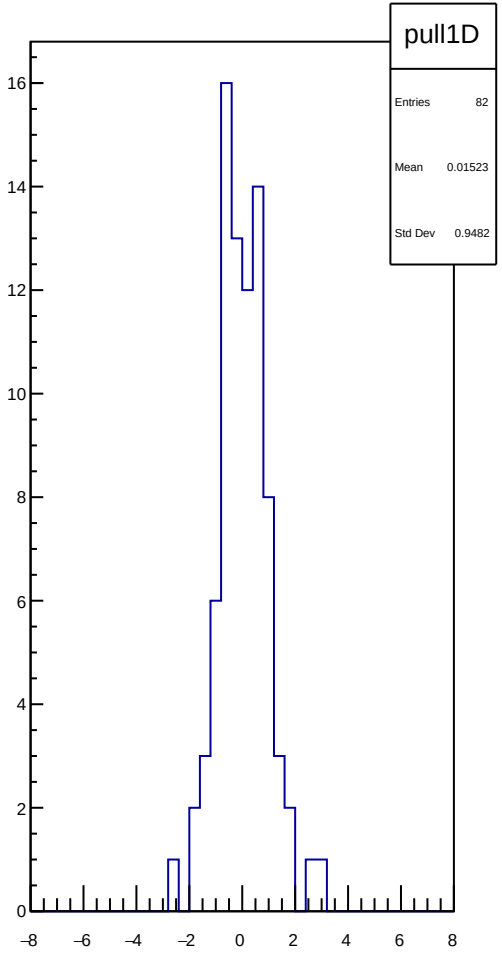

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1561 / 81
p0 1883 ± 1.489
2050
2000
1950
1900
1850
1800
1750

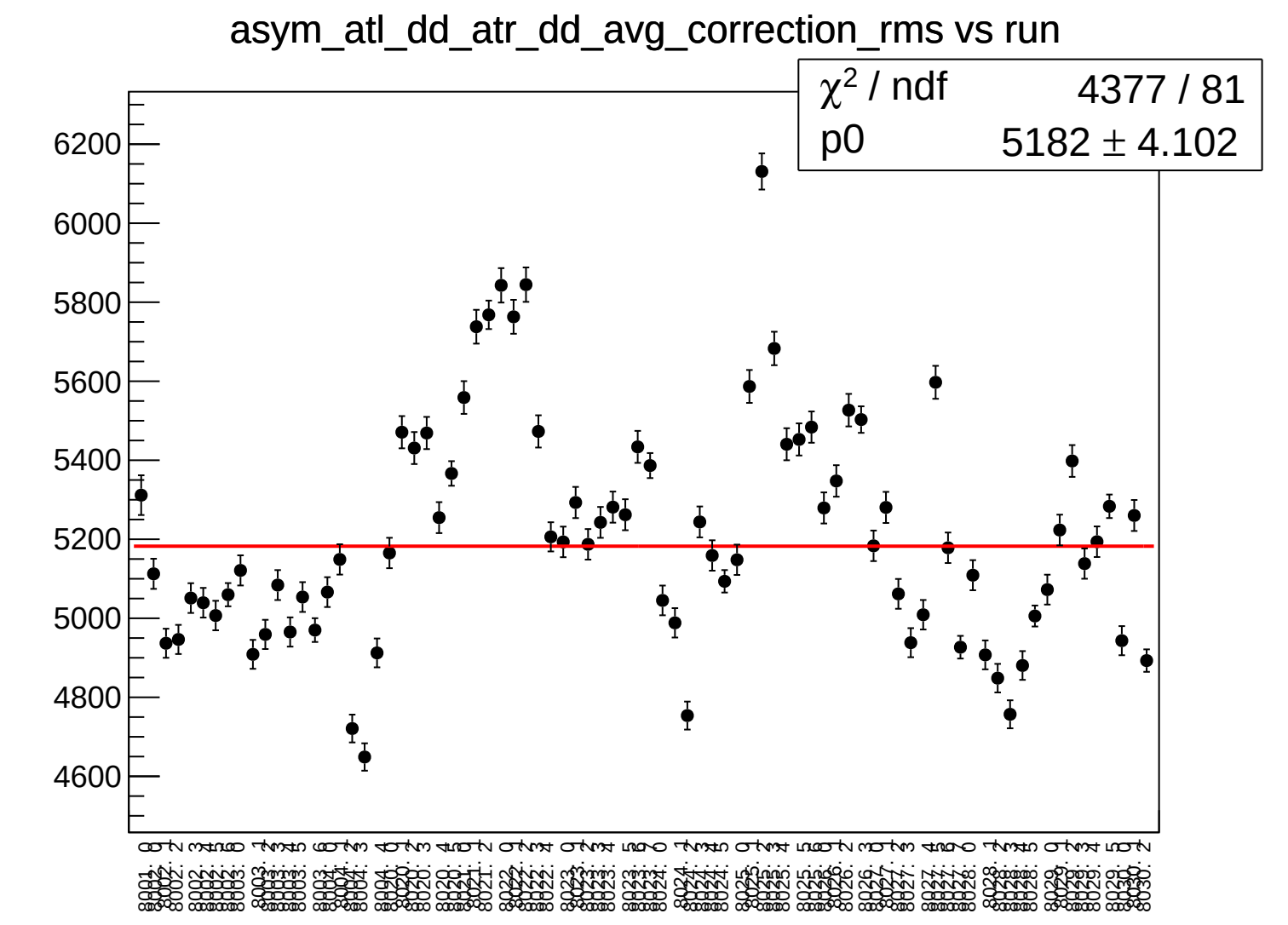

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 92.47 / 81
p0 −2399 ± 1460
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 58.94
Std Dev 98.89
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

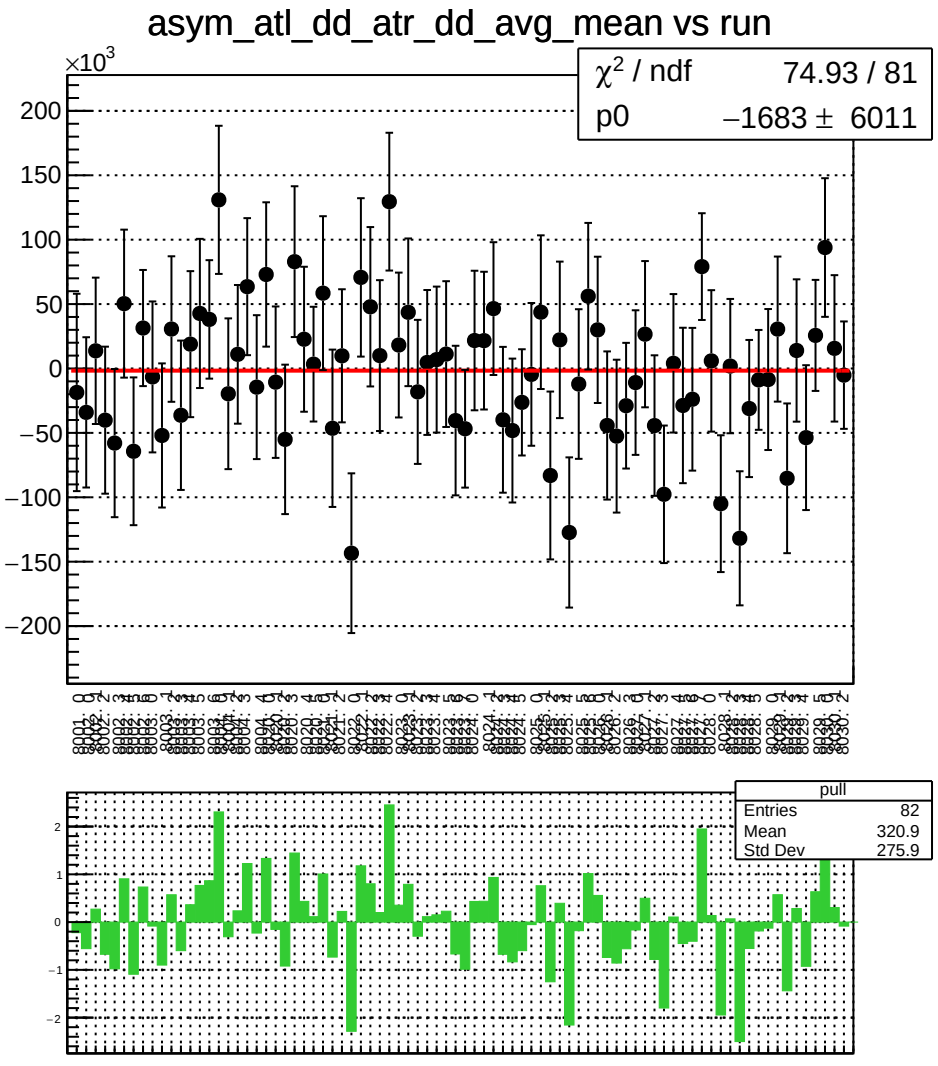

pull1D
Entries 82
Mean 0.01101
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

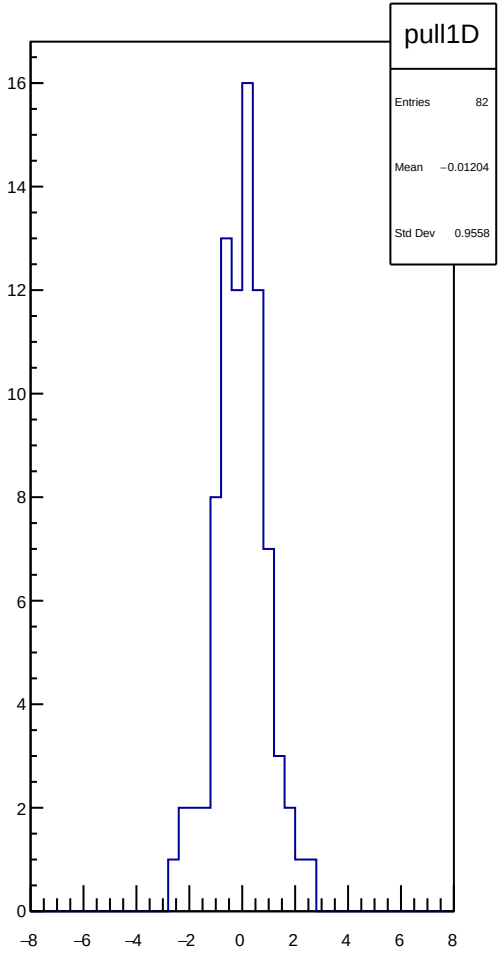

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 525.1 / 81
p0 1306 ± 1.032
1380
1360
1340
1320
1300
1280
1260

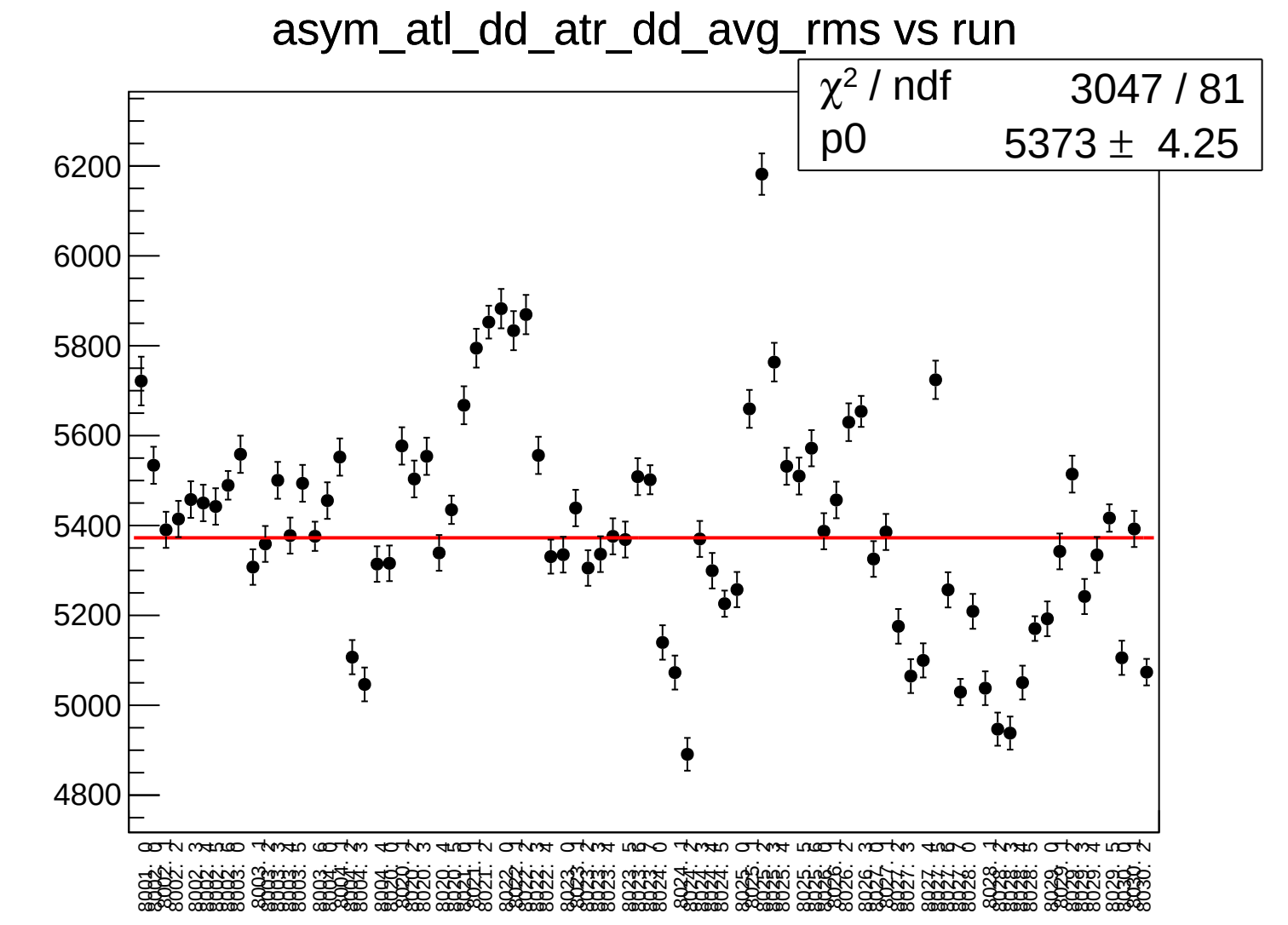

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 73.74 / 81
p0 −726.5 ± 5800
×10³
pull
Entries 82
Mean 276
Std Dev 226.8

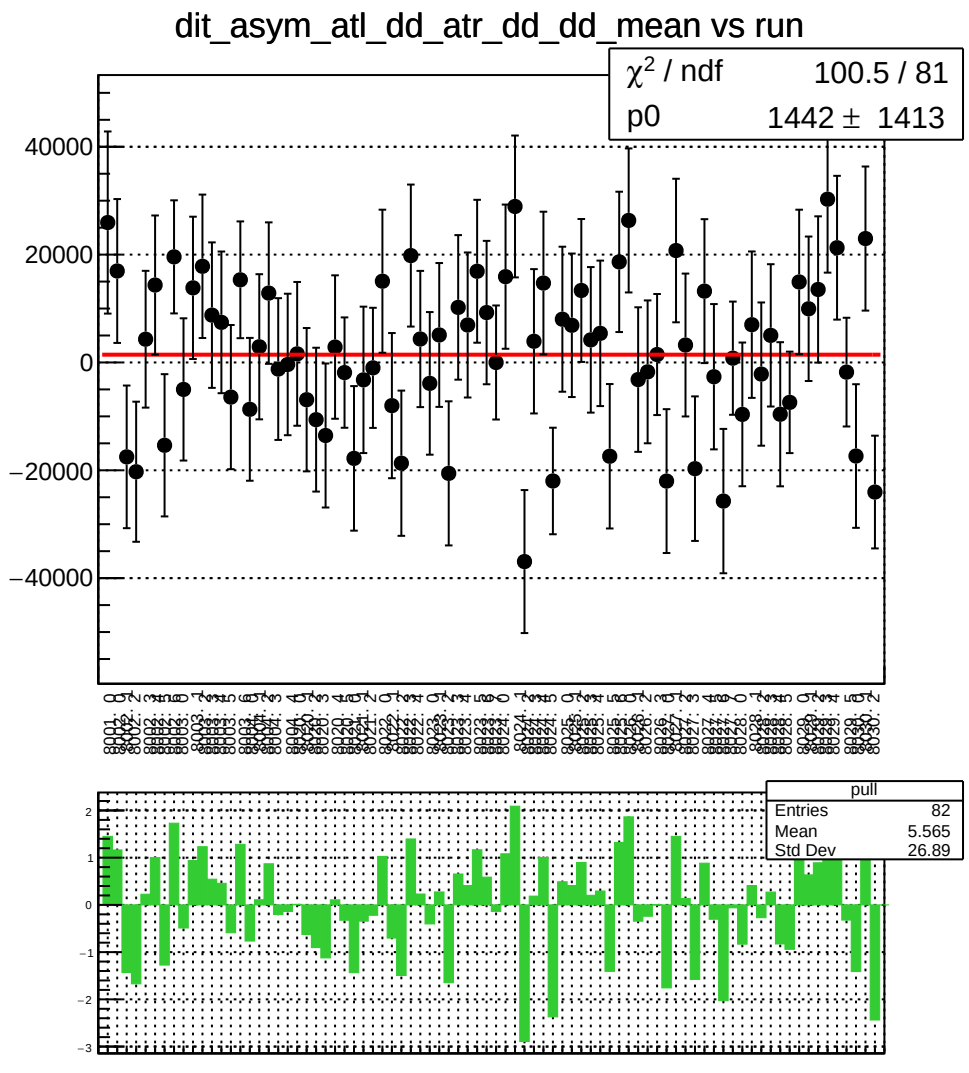

pull1D
Entries 82
Mean 0.01523
Std Dev 0.9482

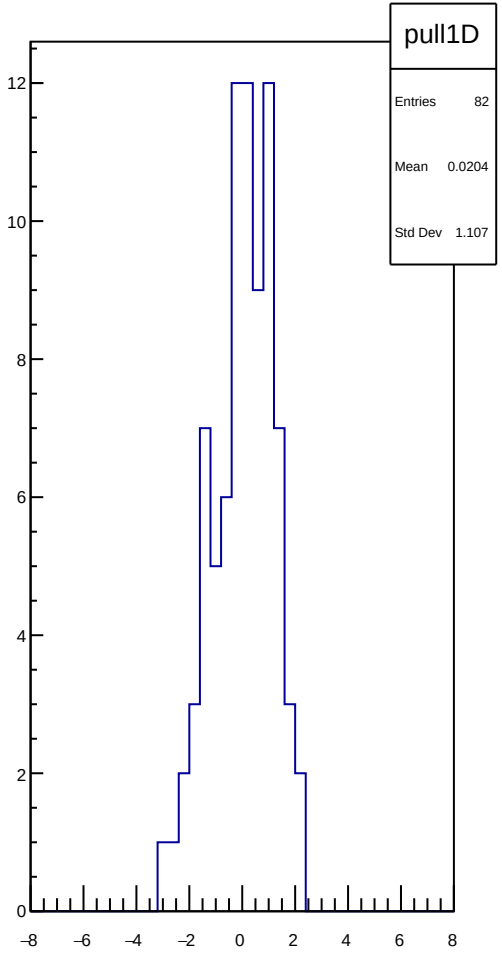

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 4377 / 81
p0 5182 ± 4.102
6200
6000
5800
5600
5400
5200
5000
4800
4600

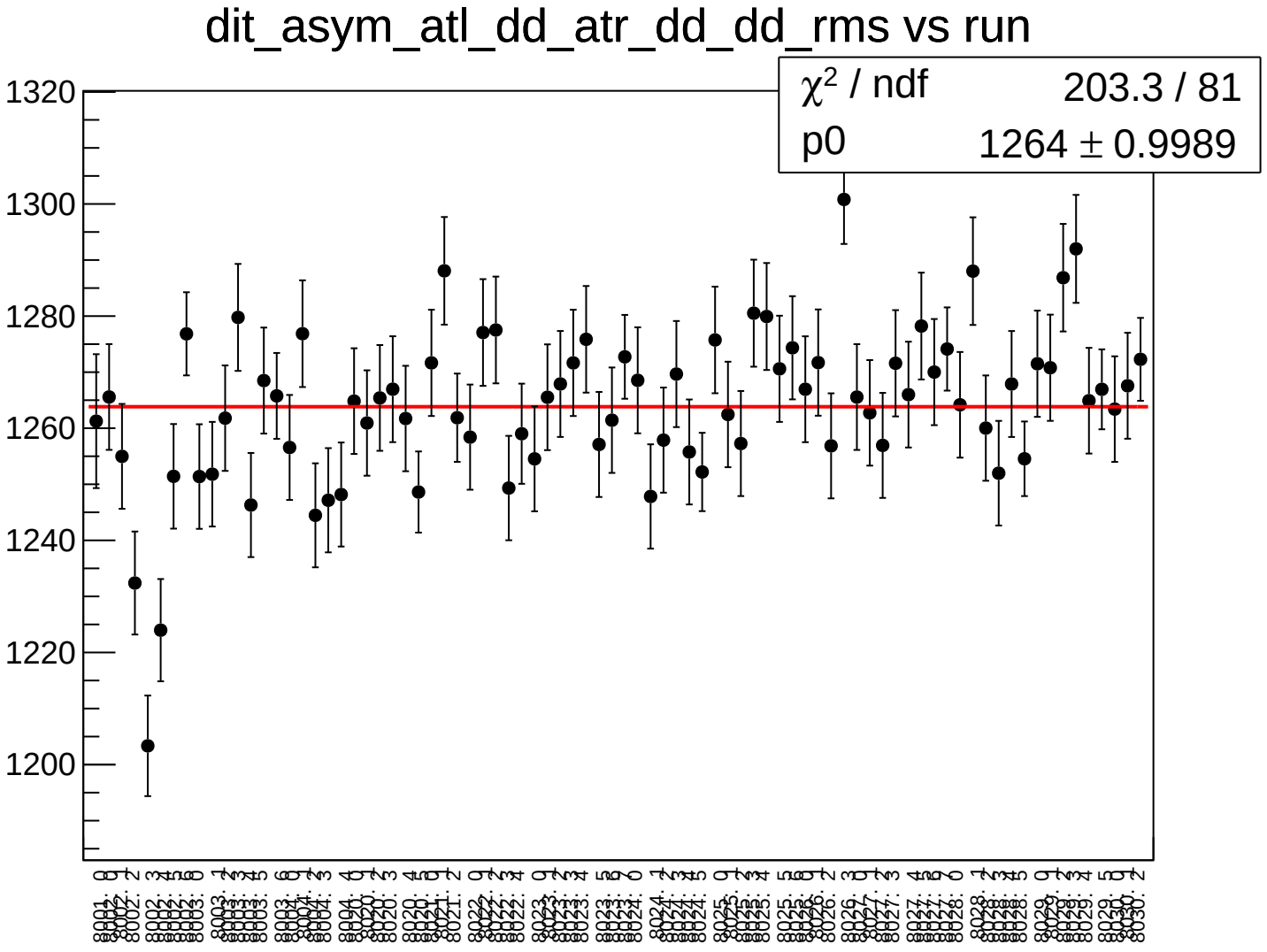

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 74.93 / 81
p0 −1683 ± 6011
pull
Entries 82
Mean 320.9
Std Dev 275.9

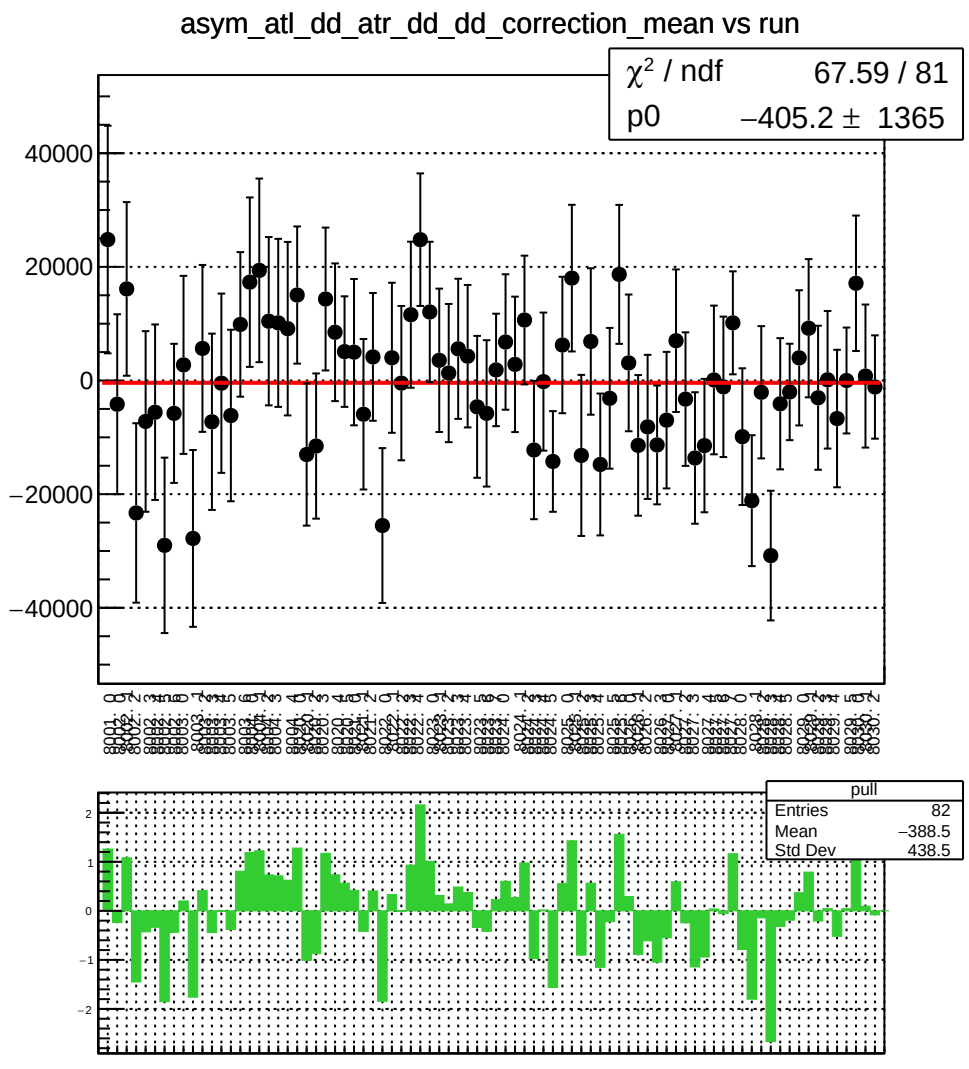

pull1D
Entries 82
Mean −0.01204
Std Dev 0.9558

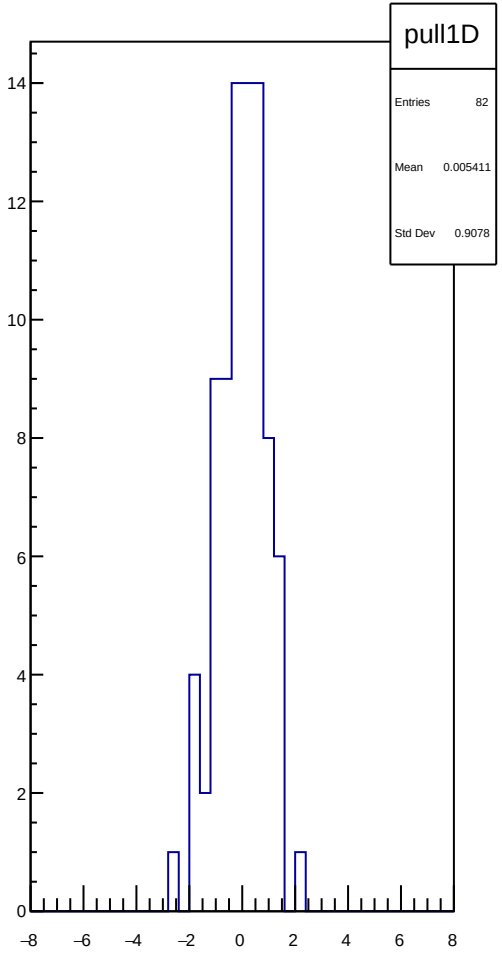

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3047 / 81
p0 5373 ± 4.25
6200
6000
5800
5600
5400
5200
5000
4800

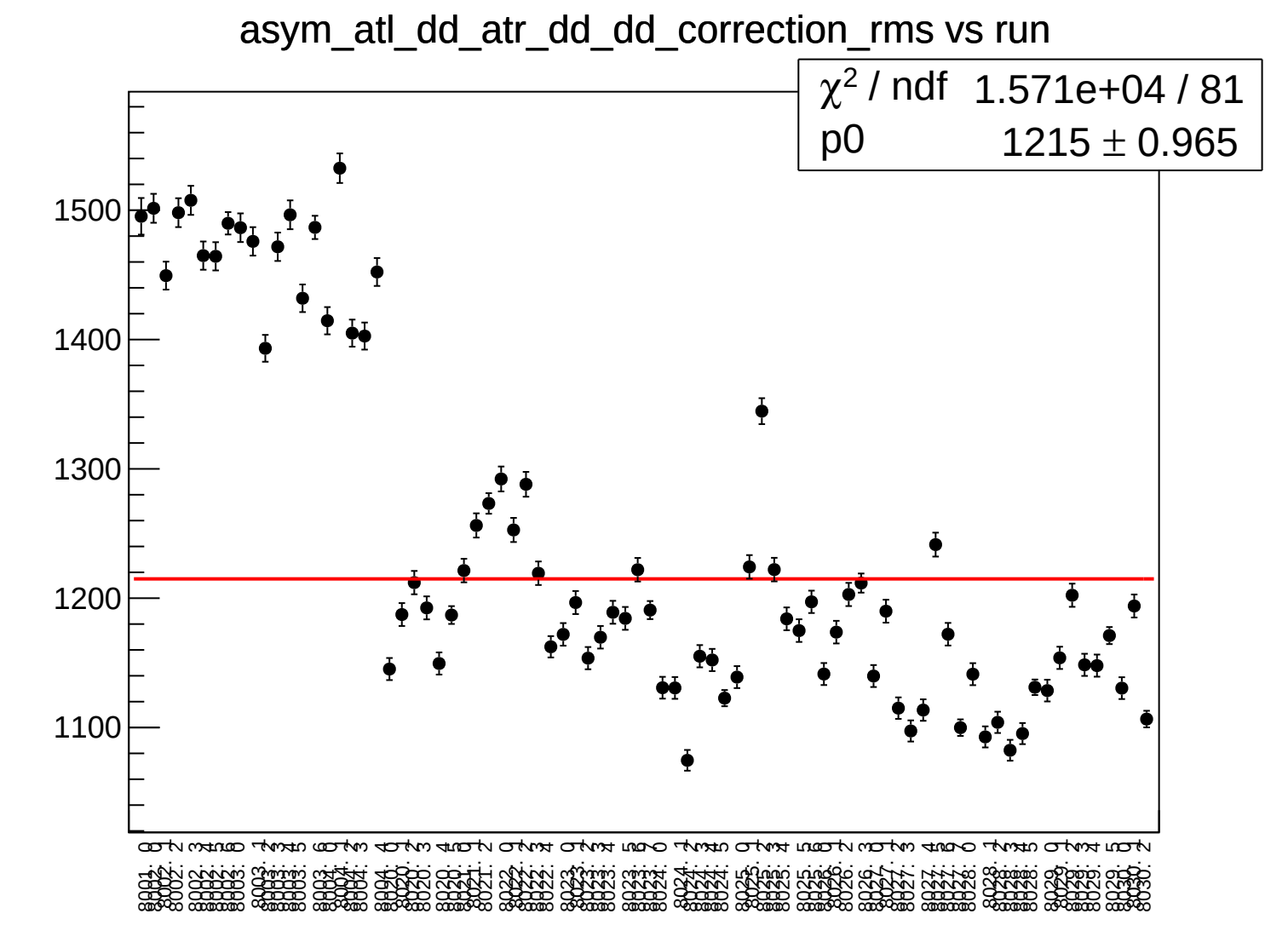

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 100.5 / 81
p0 1442 ± 1413
40000
20000
0
−20000
−40000
pull
Entries 82
Mean 5.565
Std Dev 26.89
2
1
0
−1
−2
−3

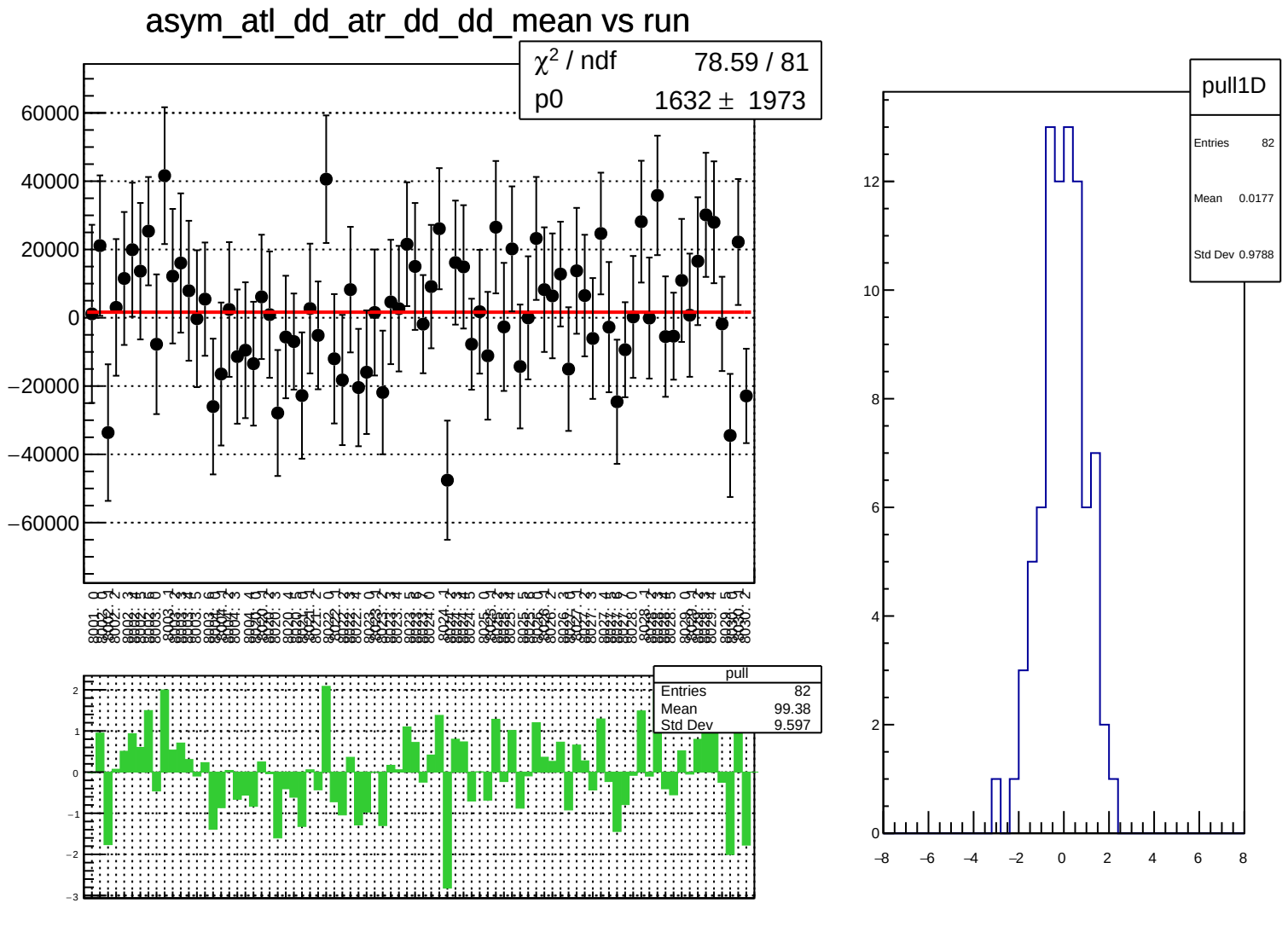

pull1D
Entries 82
Mean 0.0204
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

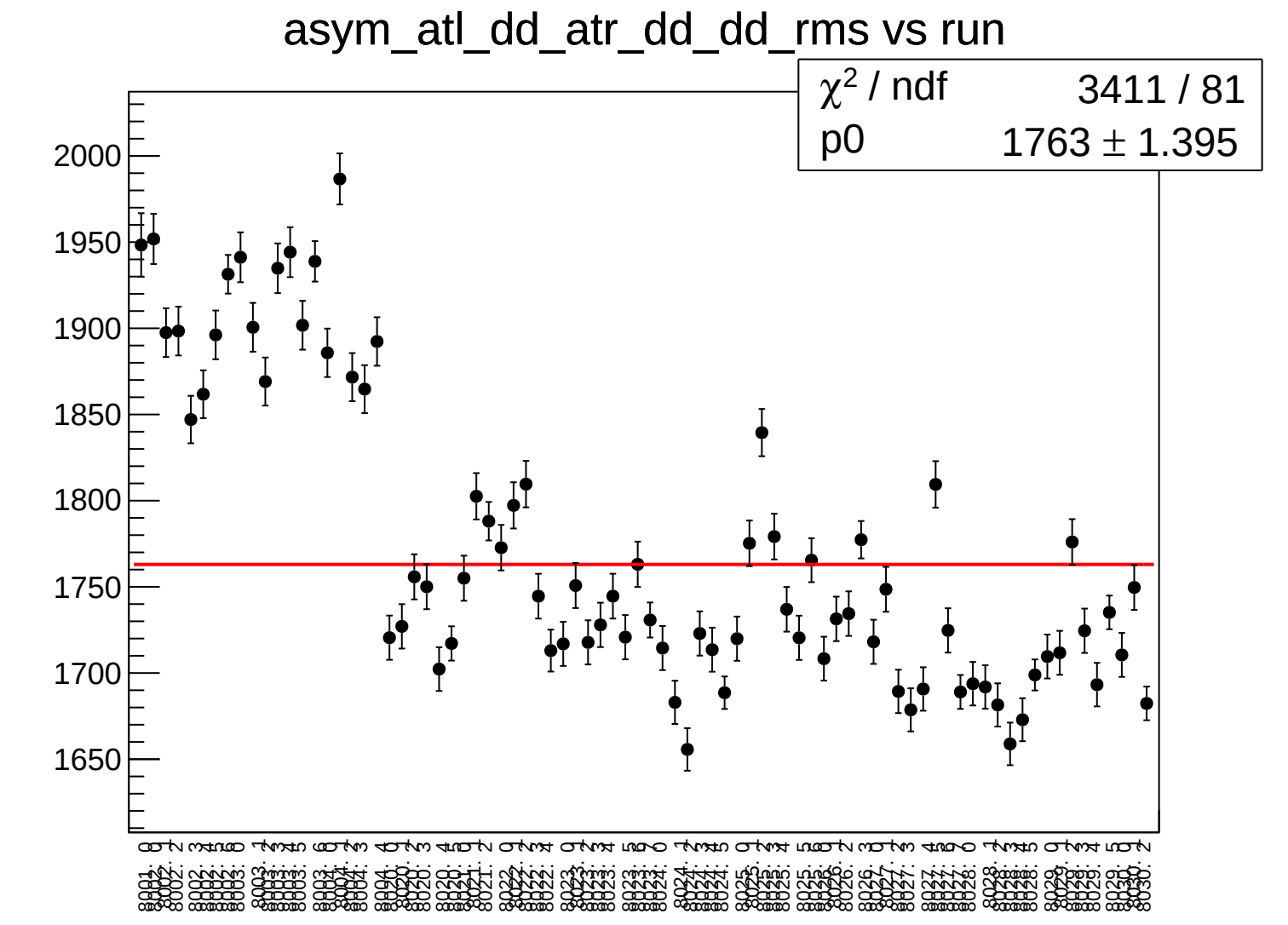

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 203.3 / 81
p0 1264 ± 0.9989
1320
1300
1280
1260
1240
1220
1200

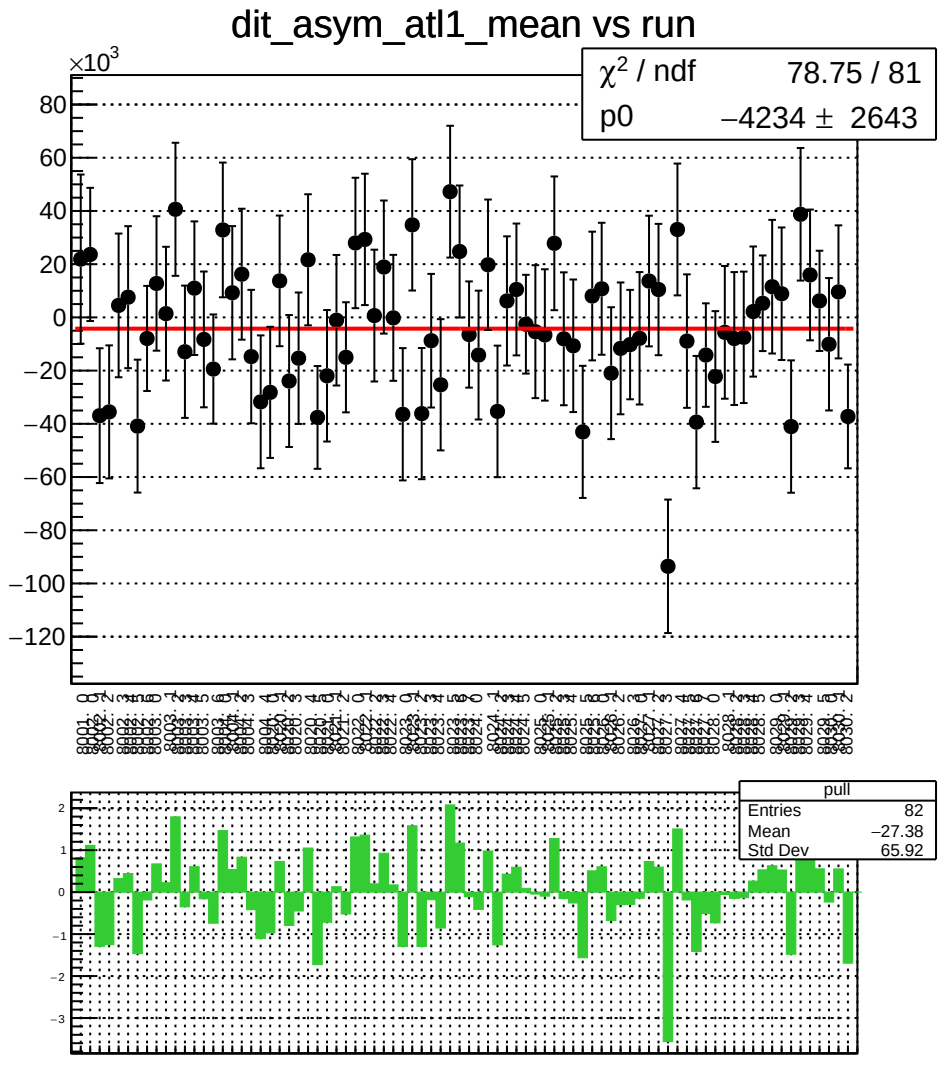

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 67.59 / 81
p0 −405.2 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −388.5
Std Dev 438.5
2
1
0
−1
−2

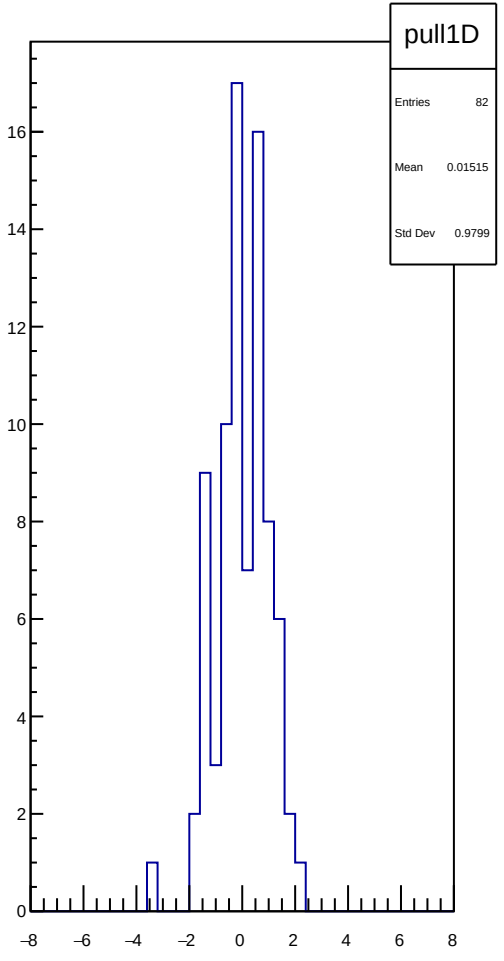

pull1D
Entries 82
Mean 0.005411
Std Dev 0.9078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

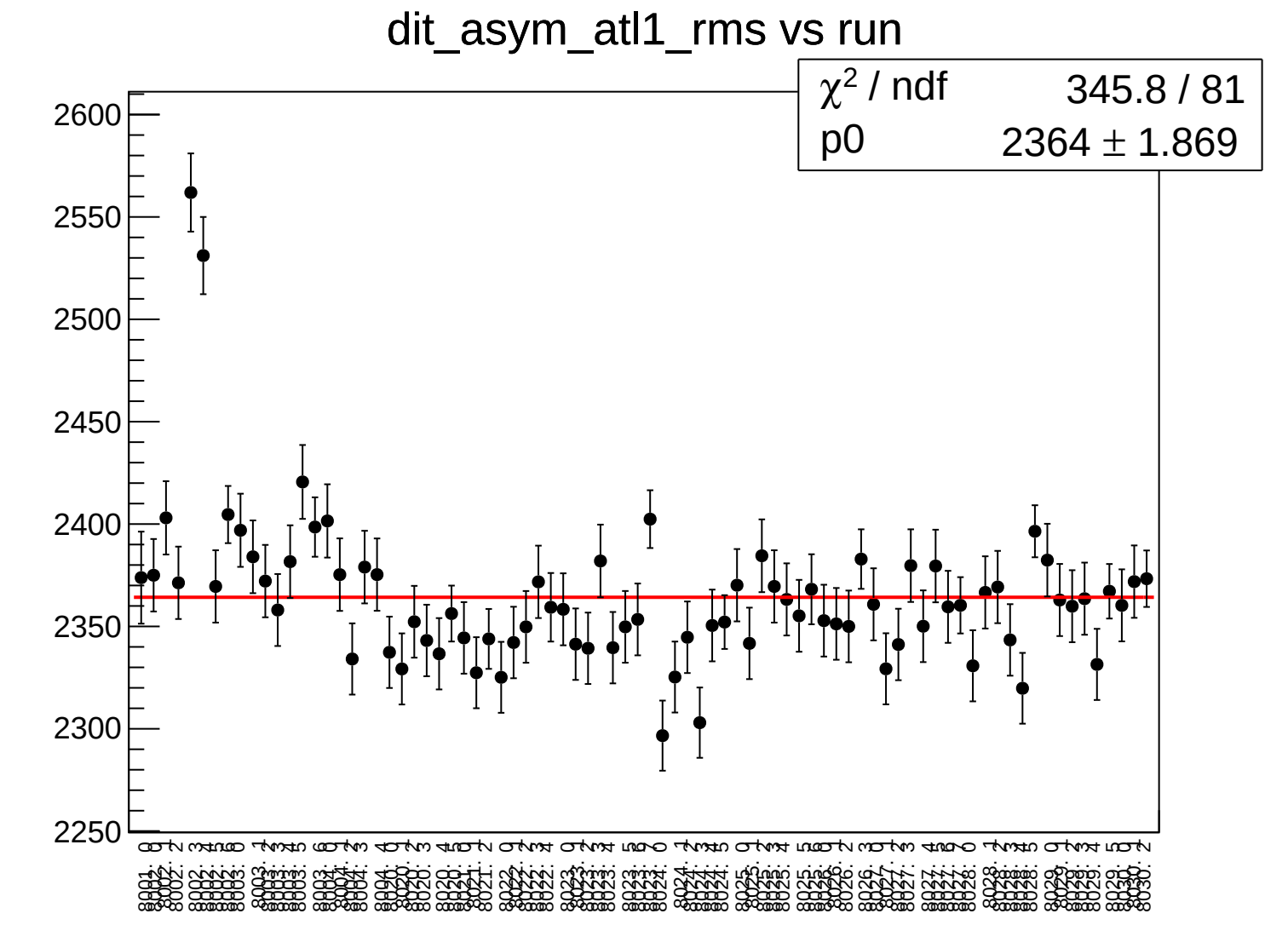

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 1.571e+04 / 81
p0 1215 ± 0.965
1500
1400
1300
1200
1100

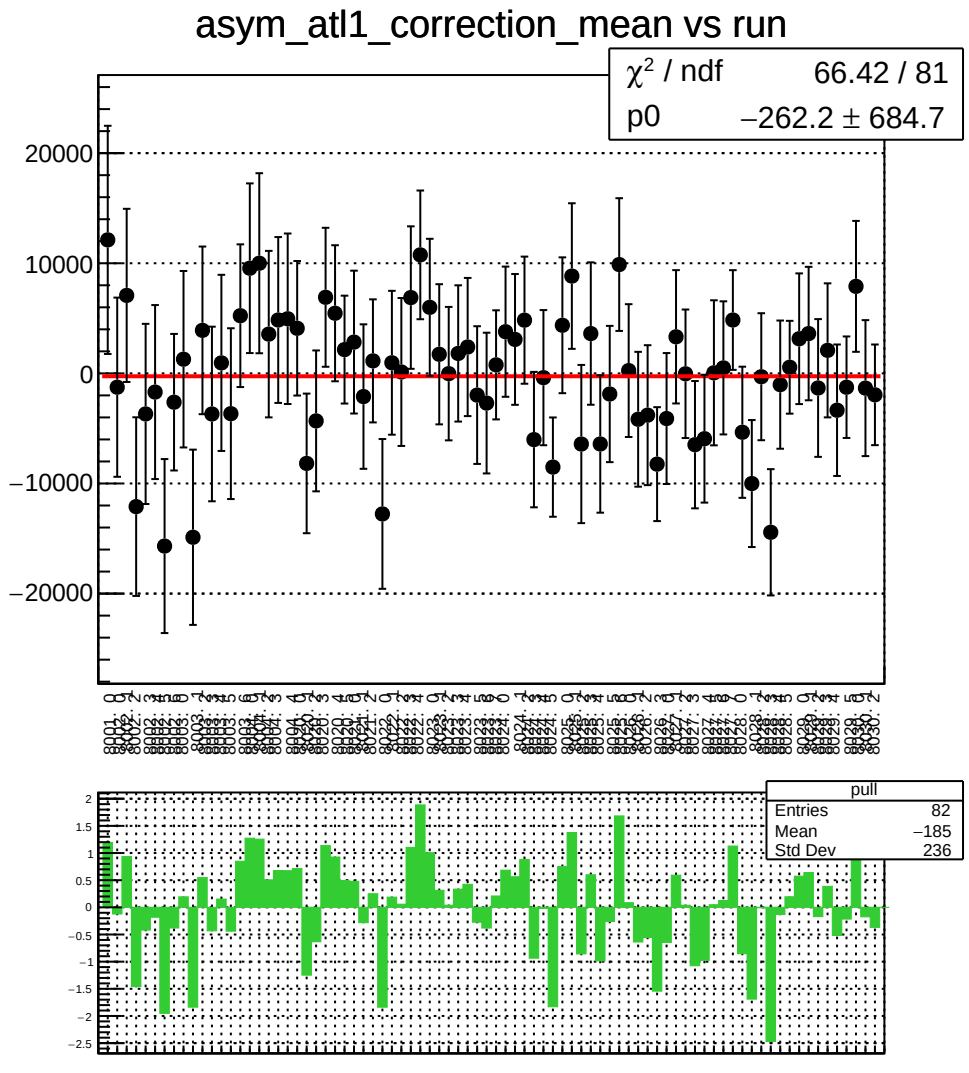

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 78.59 / 81
p0 1632 ± 1973
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 99.38
Std Dev 9.597
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean 0.0177
Std Dev 0.9788
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

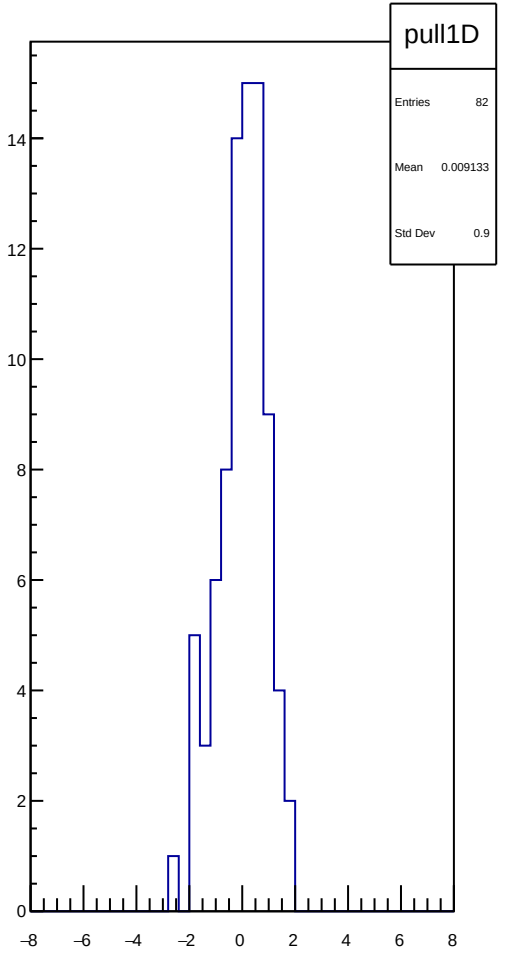

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 3411 / 81
p0 1763 ± 1.395
2000
1950
1900
1850
1800
1750
1700
1650

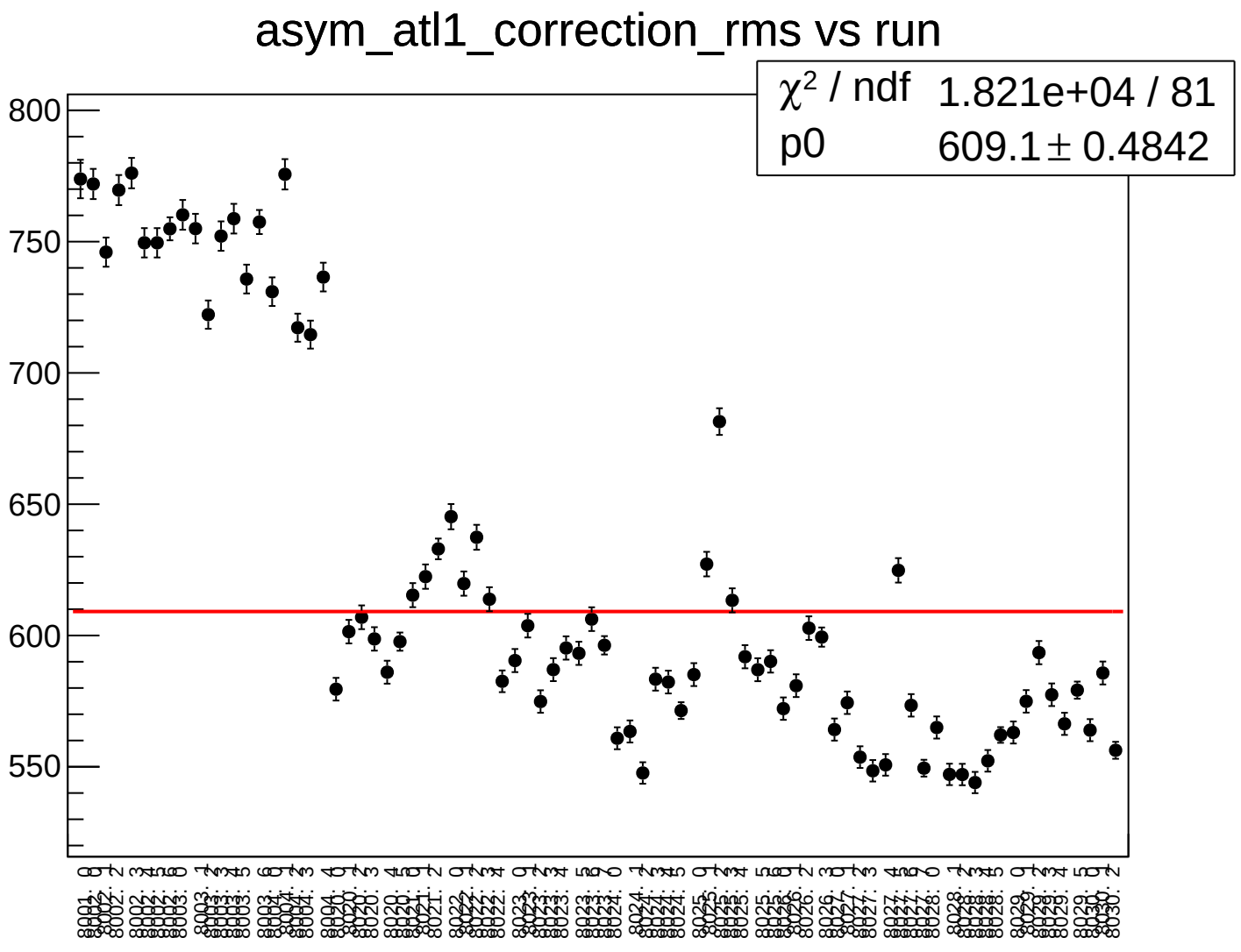

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 78.75 / 81
p0 −4234 ± 2643
pull
Entries 82
Mean −27.38
Std Dev 65.92

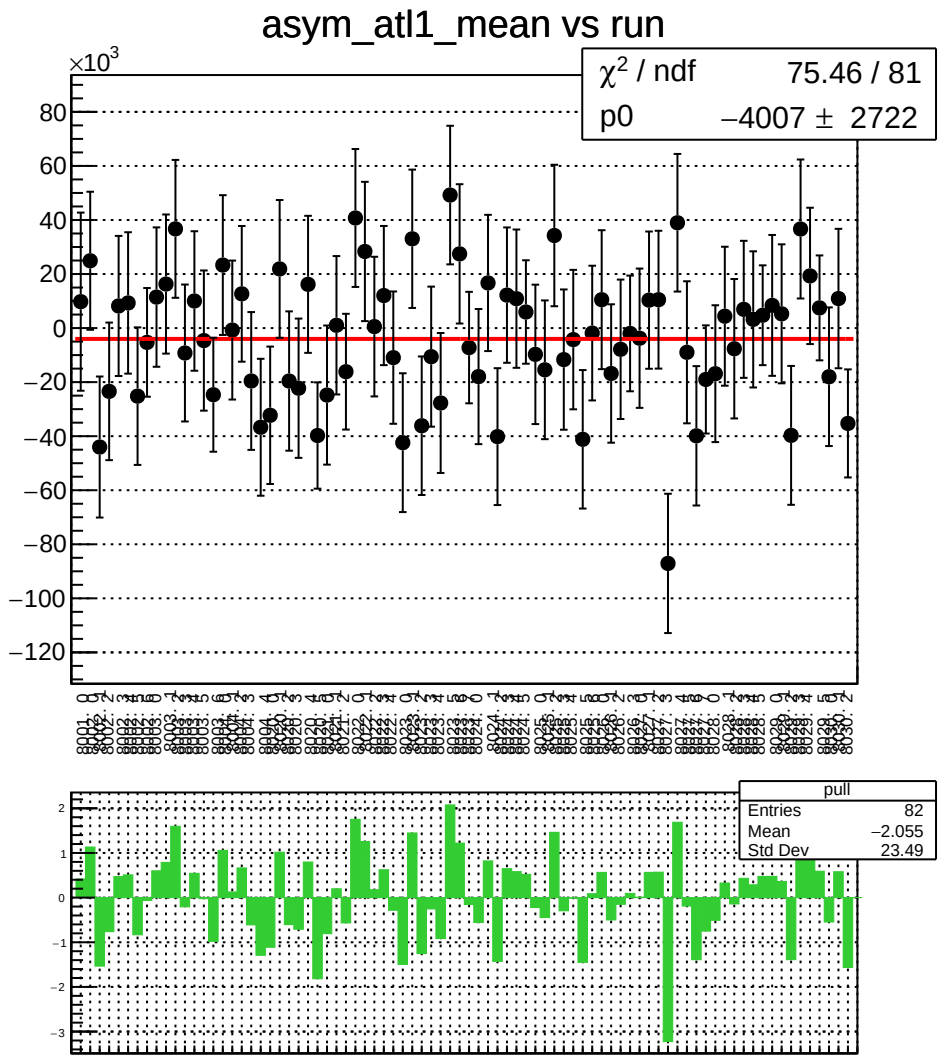

pull1D
Entries 82
Mean 0.01515
Std Dev 0.9799

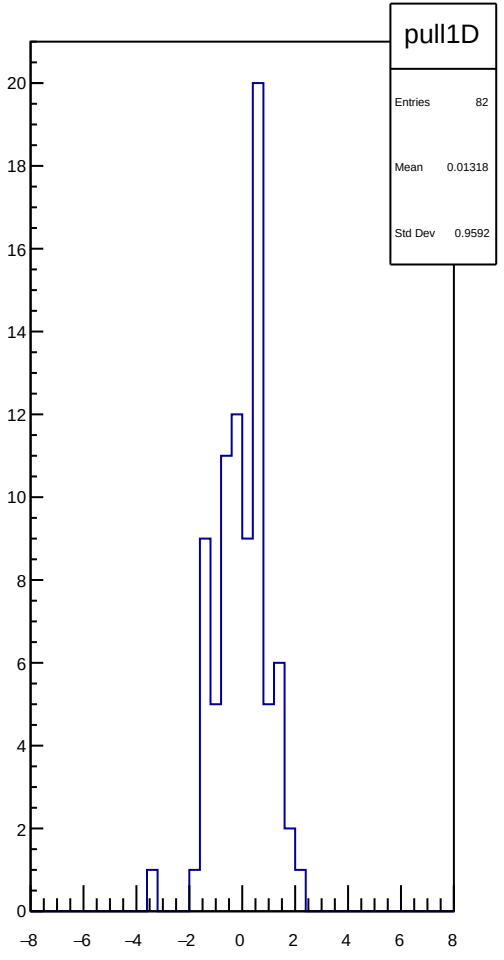

dit_asym_atl1_rms vs run
χ² / ndf 345.8 / 81
p0 2364 ± 1.869
2600
2550
2500
2450
2400
2350
2300
2250

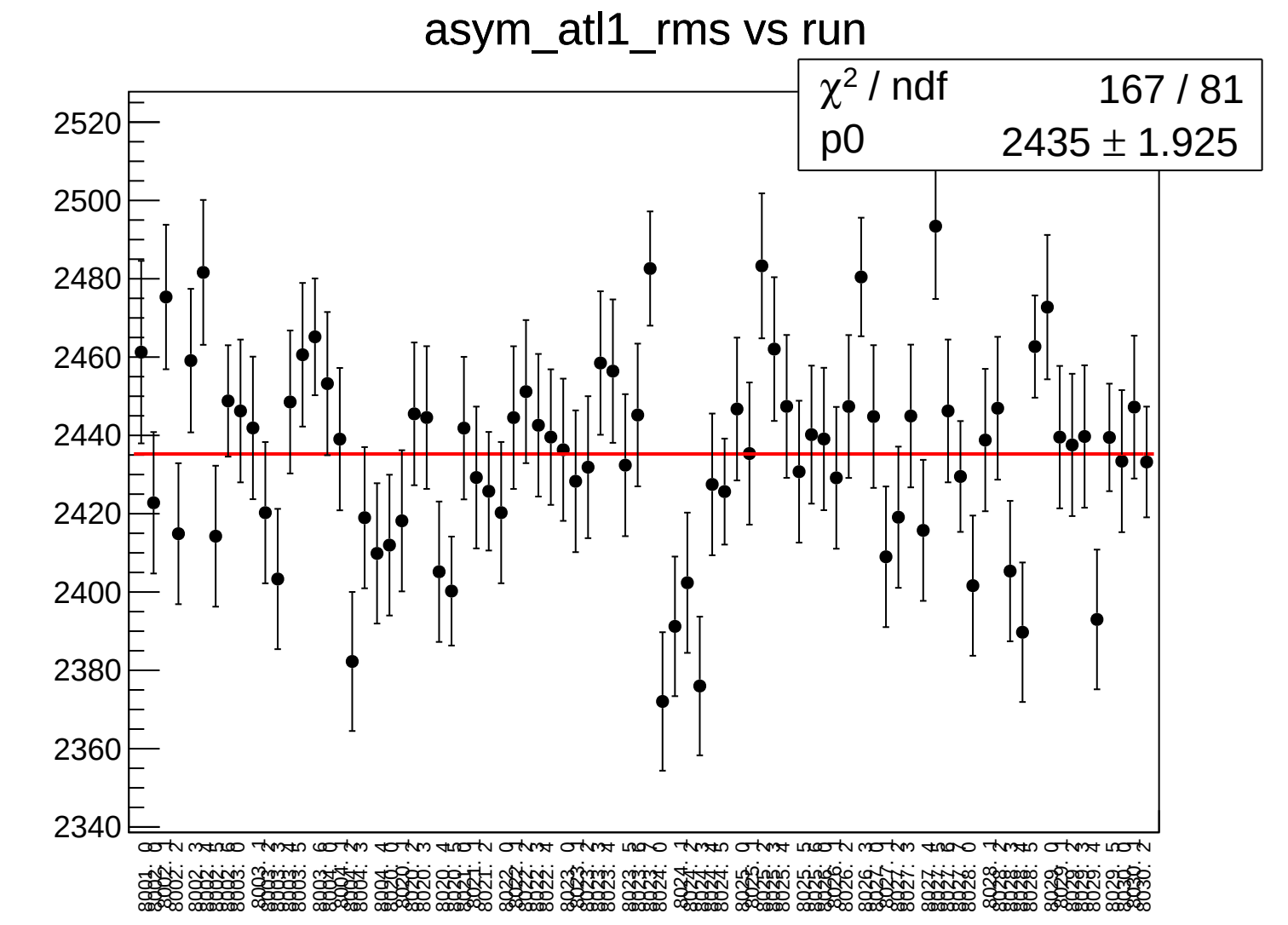

asym_atl1_correction_mean vs run
χ² / ndf 66.42 / 81
p0 −262.2 ± 684.7
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −185
Std Dev 236
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

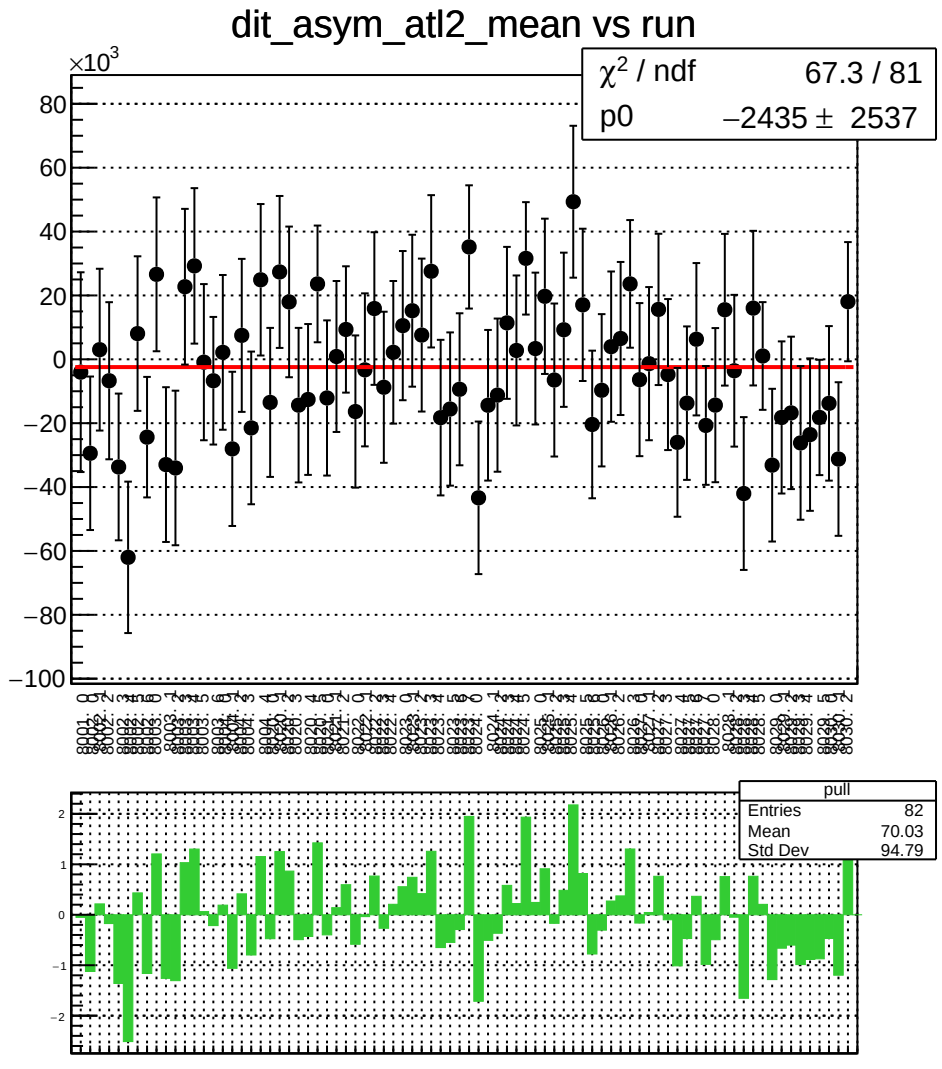

pull1D
Entries 82
Mean 0.009133
Std Dev 0.9
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

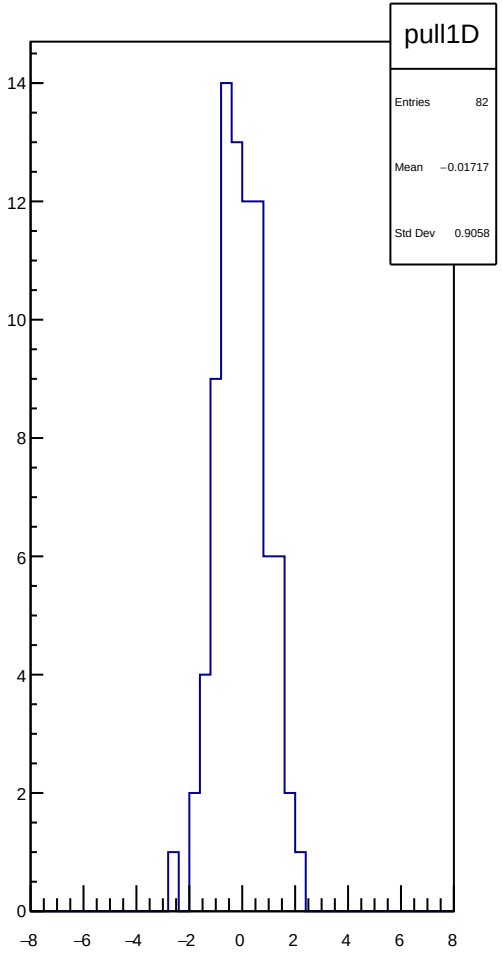

asym_atl1_correction_rms vs run
χ² / ndf 1.821e+04 / 81
p0 609.1 ± 0.4842
800
750
700
650
600
550

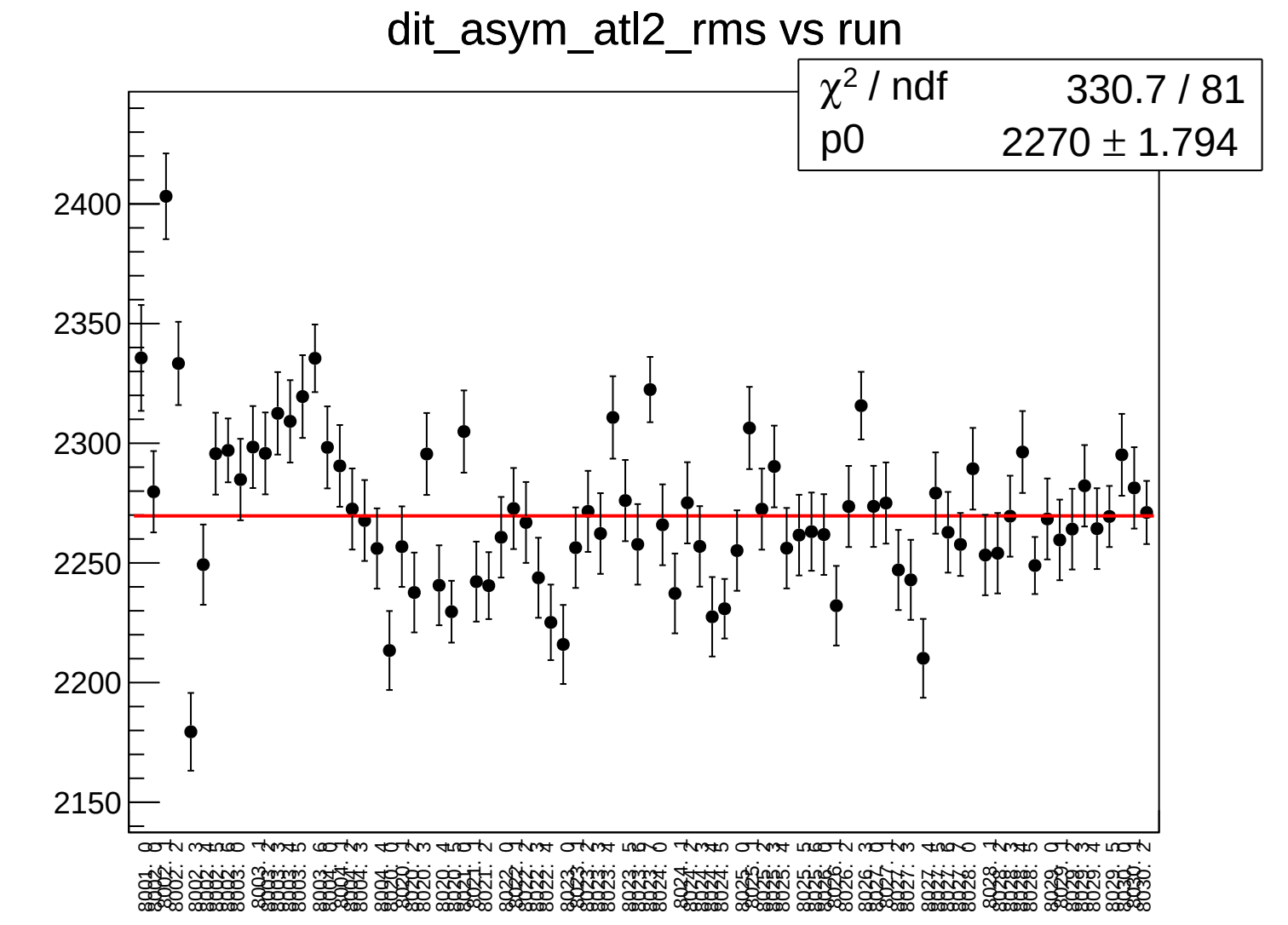

asym_atl1_mean vs run
χ² / ndf 75.46 / 81
p0 −4007 ± 2722
pull
Entries 82
Mean −2.055
Std Dev 23.49

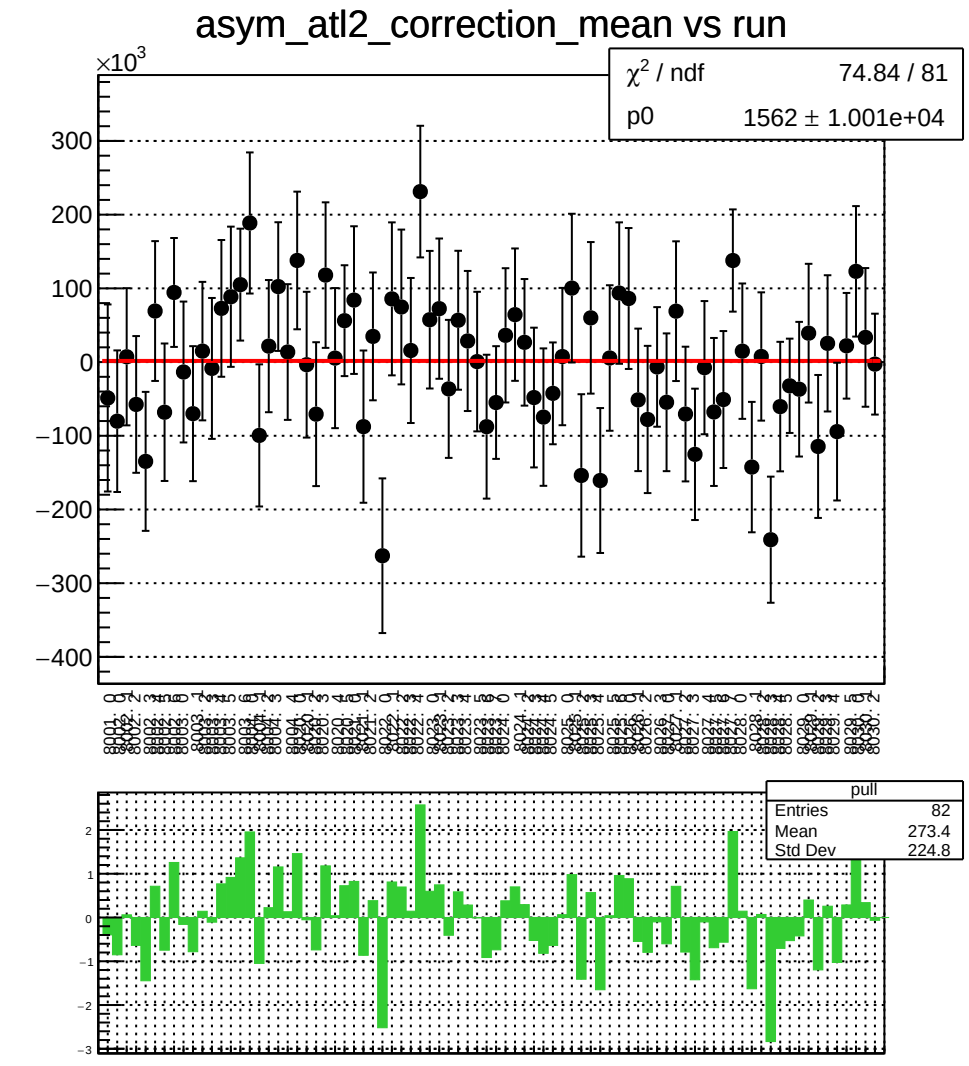

pull1D
Entries 82
Mean 0.01318
Std Dev 0.9592

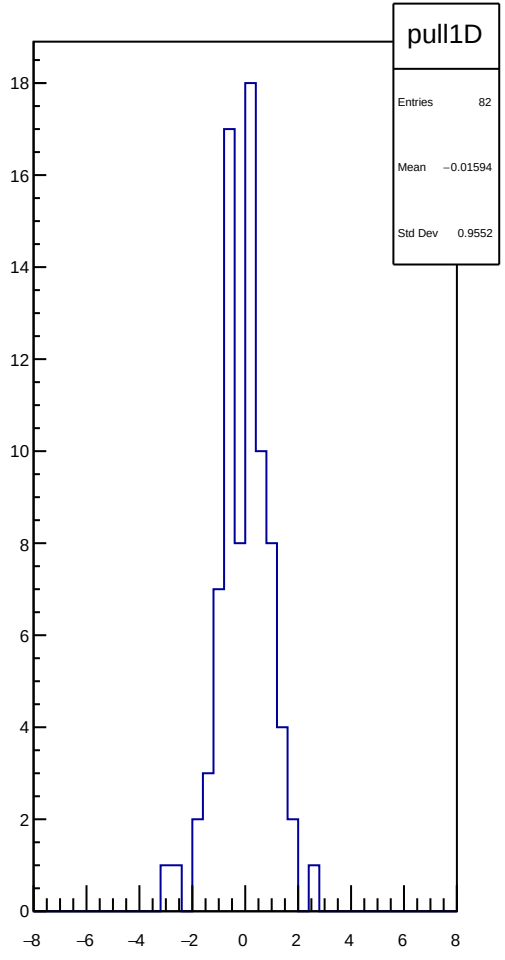

asym_atl1_rms vs run
χ^2 / ndf 167 / 81
p0 2435 ± 1.925
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340

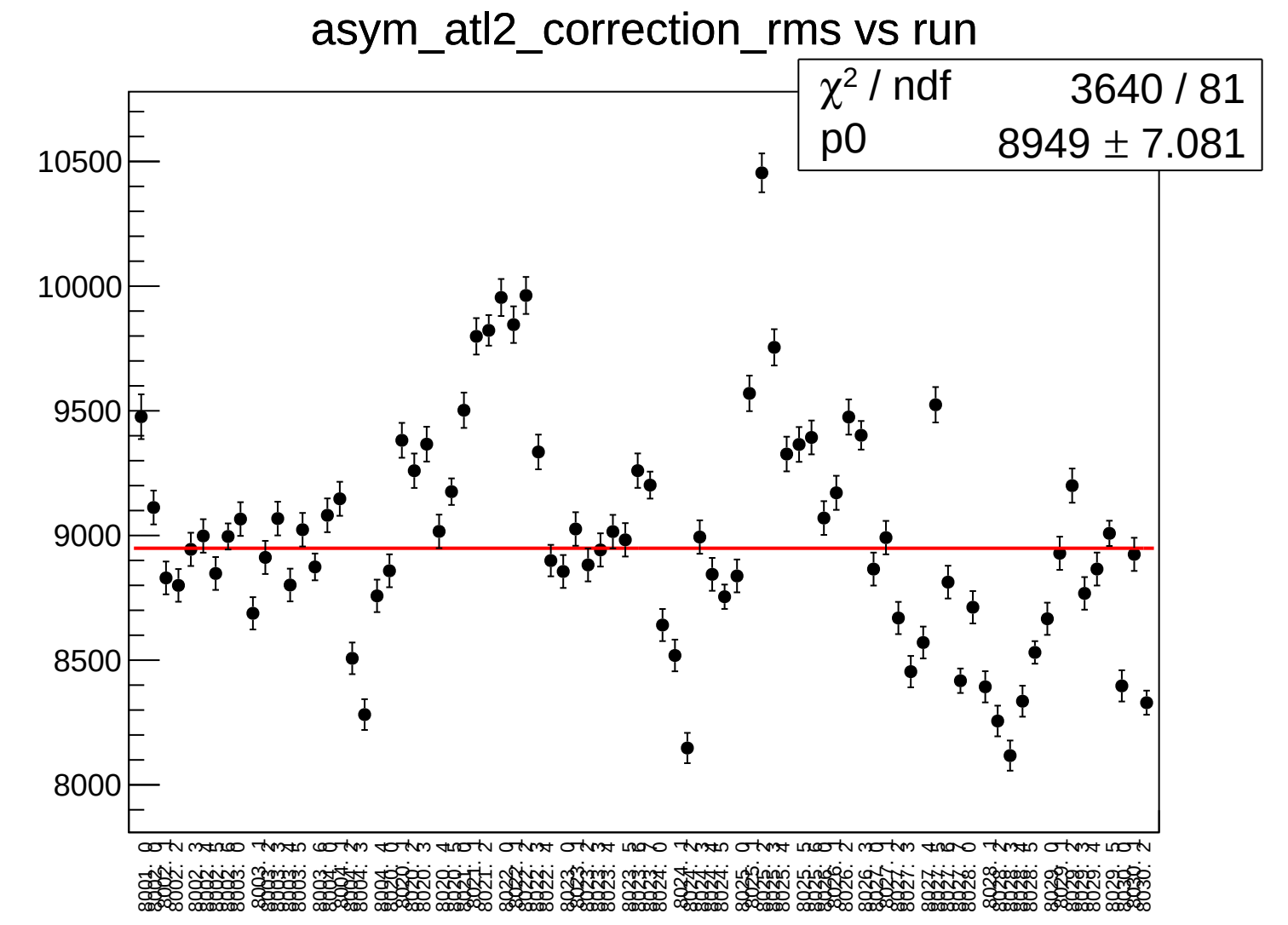

dit_asym_atl2_mean vs run
χ^2 / ndf 67.3 / 81
p0 −2435 ± 2537
×10^3
pull
Entries 82
Mean 70.03
Std Dev 94.79

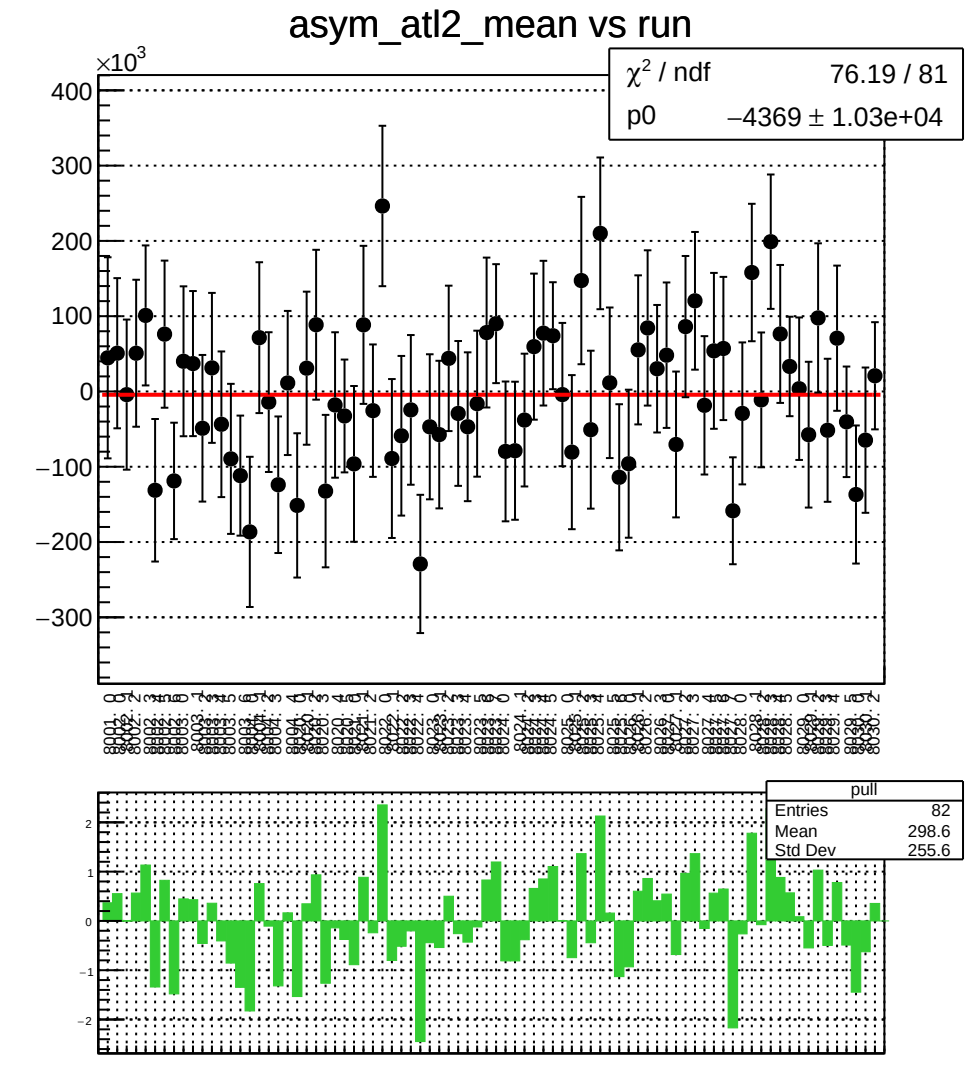

pull1D
Entries 82
Mean −0.01717
Std Dev 0.9058

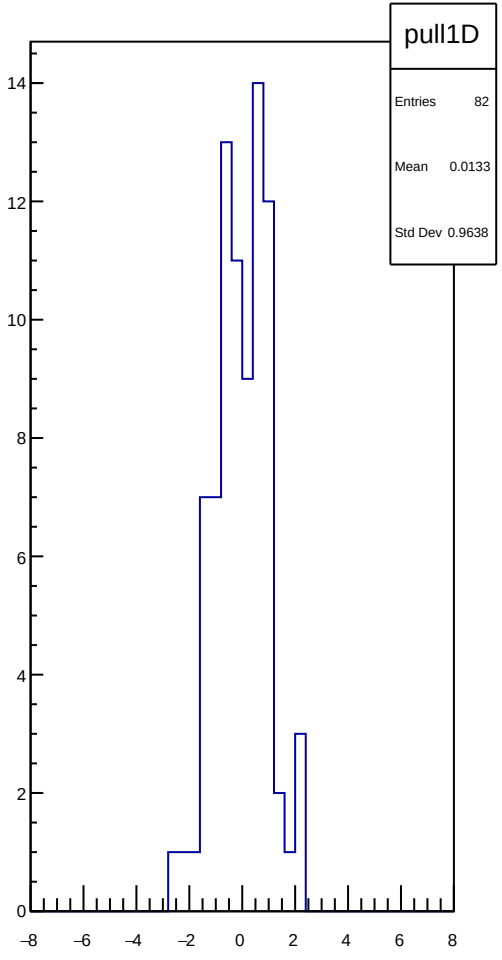

dit_asym_atl2_rms vs run
χ² / ndf 330.7 / 81
p0 2270 ± 1.794
2400
2350
2300
2250
2200
2150

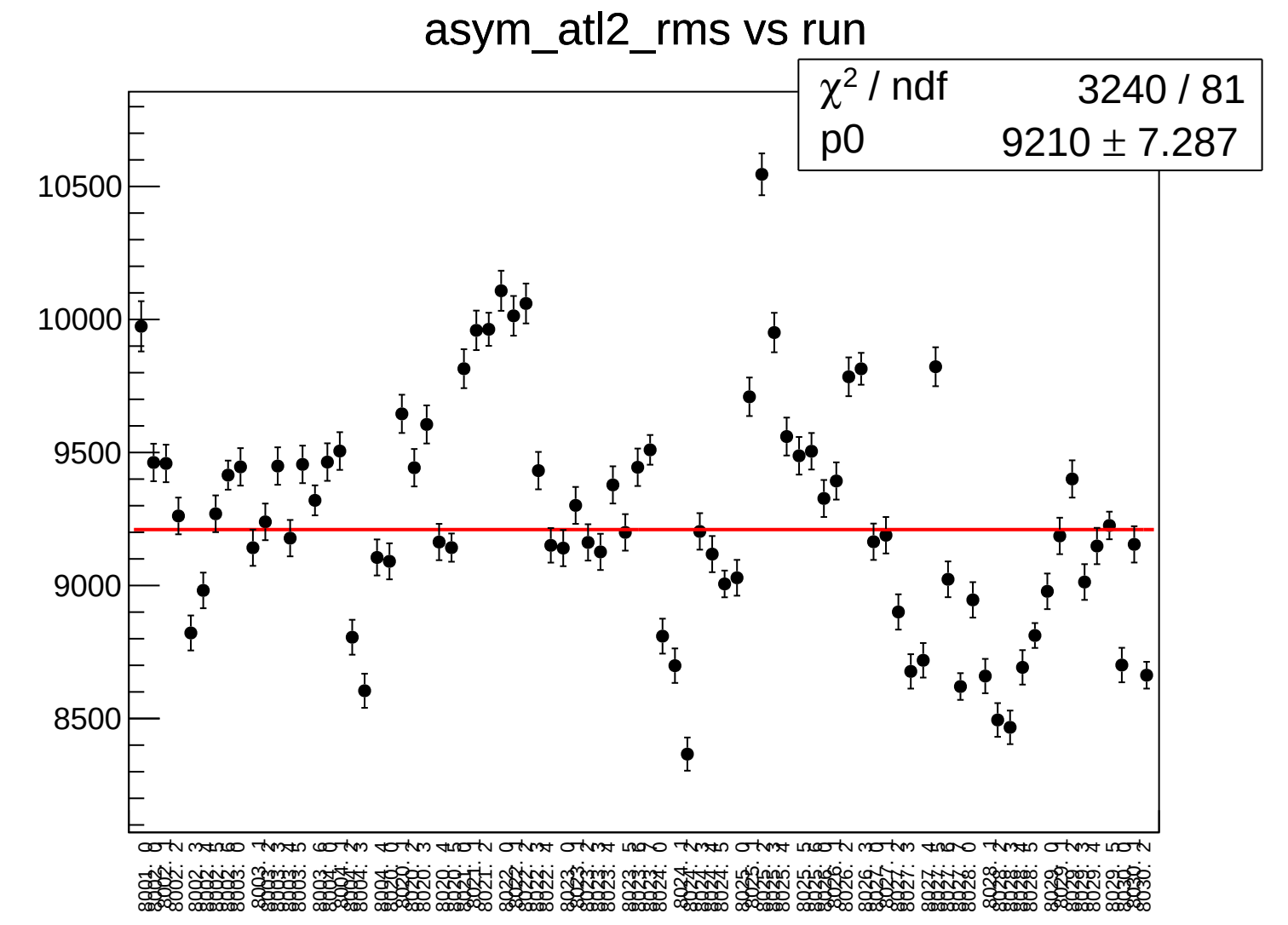

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 74.84 / 81
p0 1562 ± 1.001e+04
pull
Entries 82
Mean 273.4
Std Dev 224.8

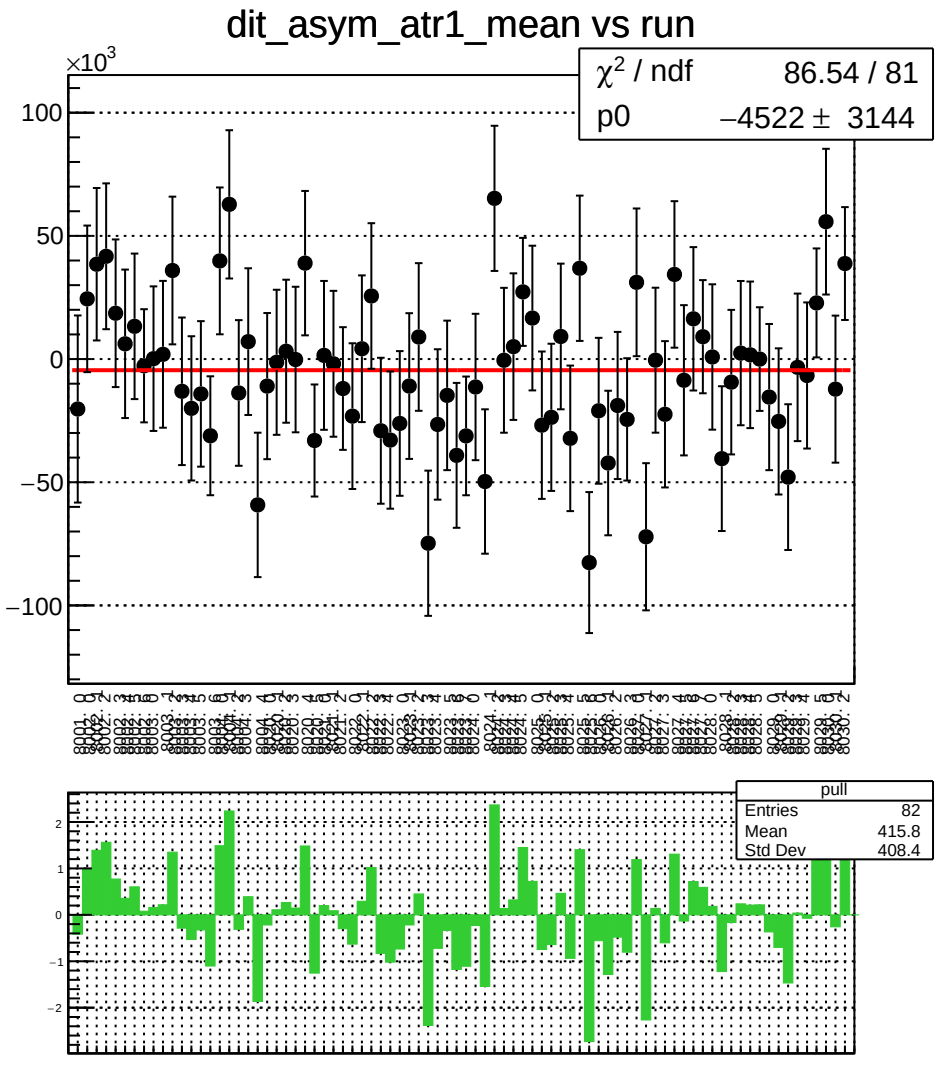

pull1D
Entries 82
Mean −0.01594
Std Dev 0.9552

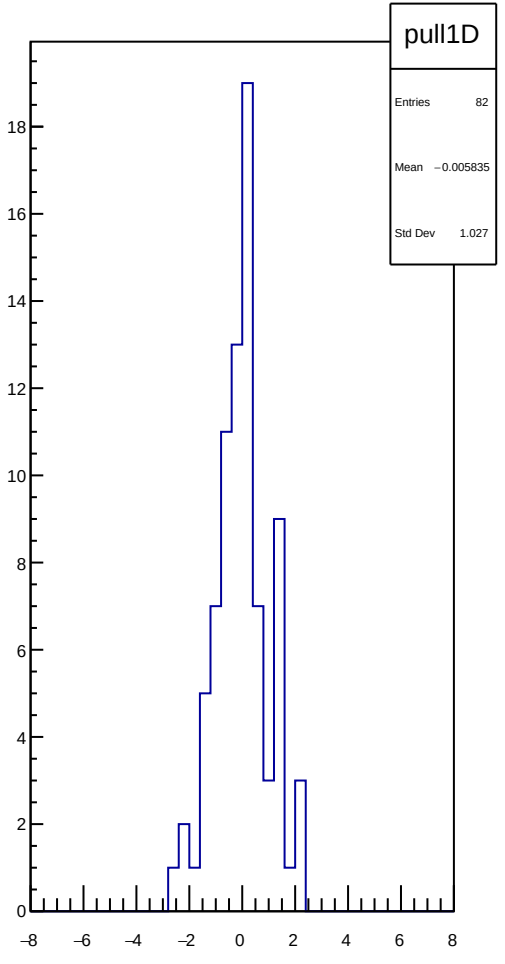

asym_atl2_correction_rms vs run
χ² / ndf 3640 / 81
p0 8949 ± 7.081
10500
10000
9500
9000
8500
8000

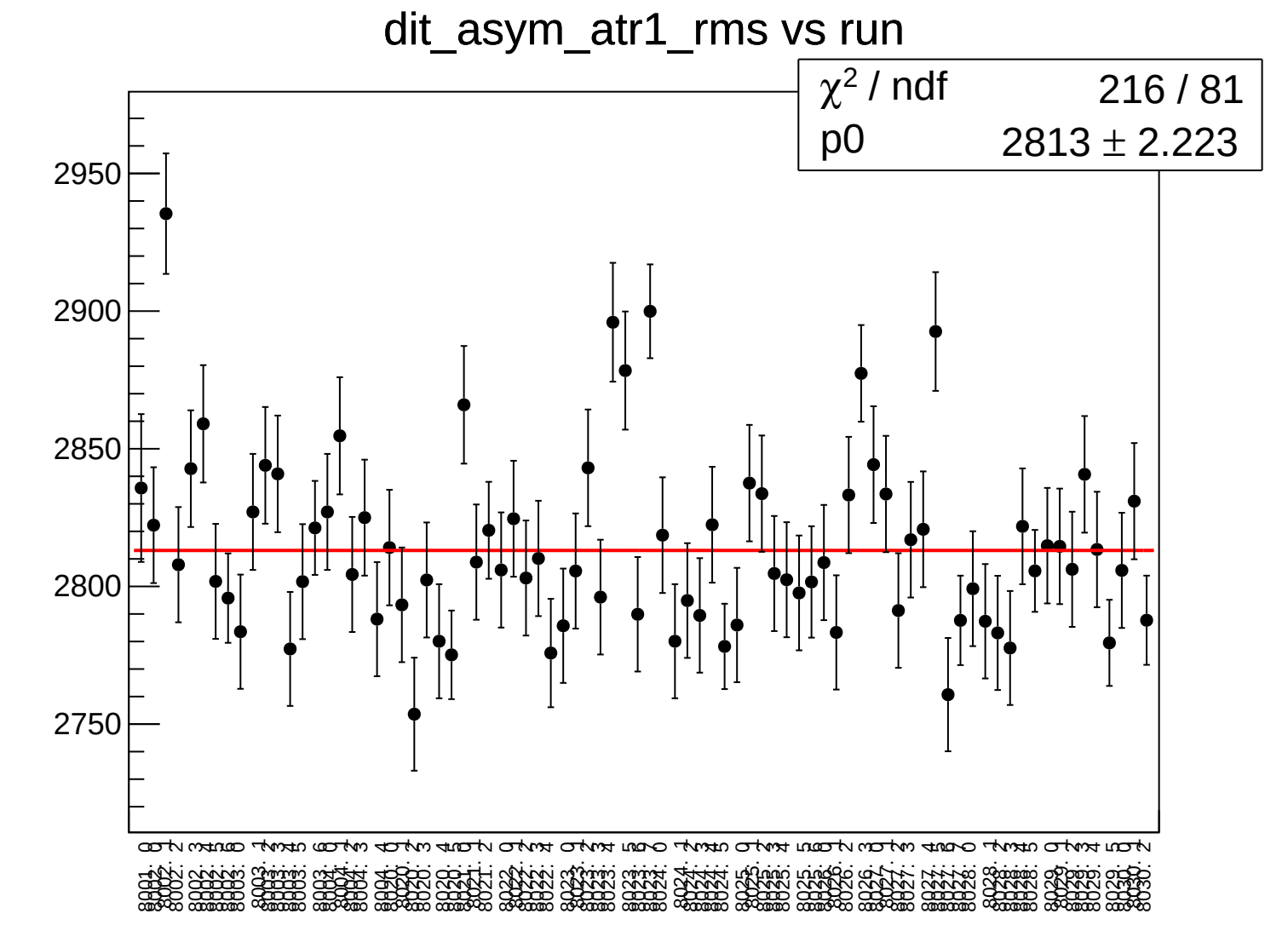

asym_atl2_mean vs run
×10^3
χ² / ndf 76.19 / 81
p0 −4369 ± 1.03e+04
pull
Entries 82
Mean 298.6
Std Dev 255.6

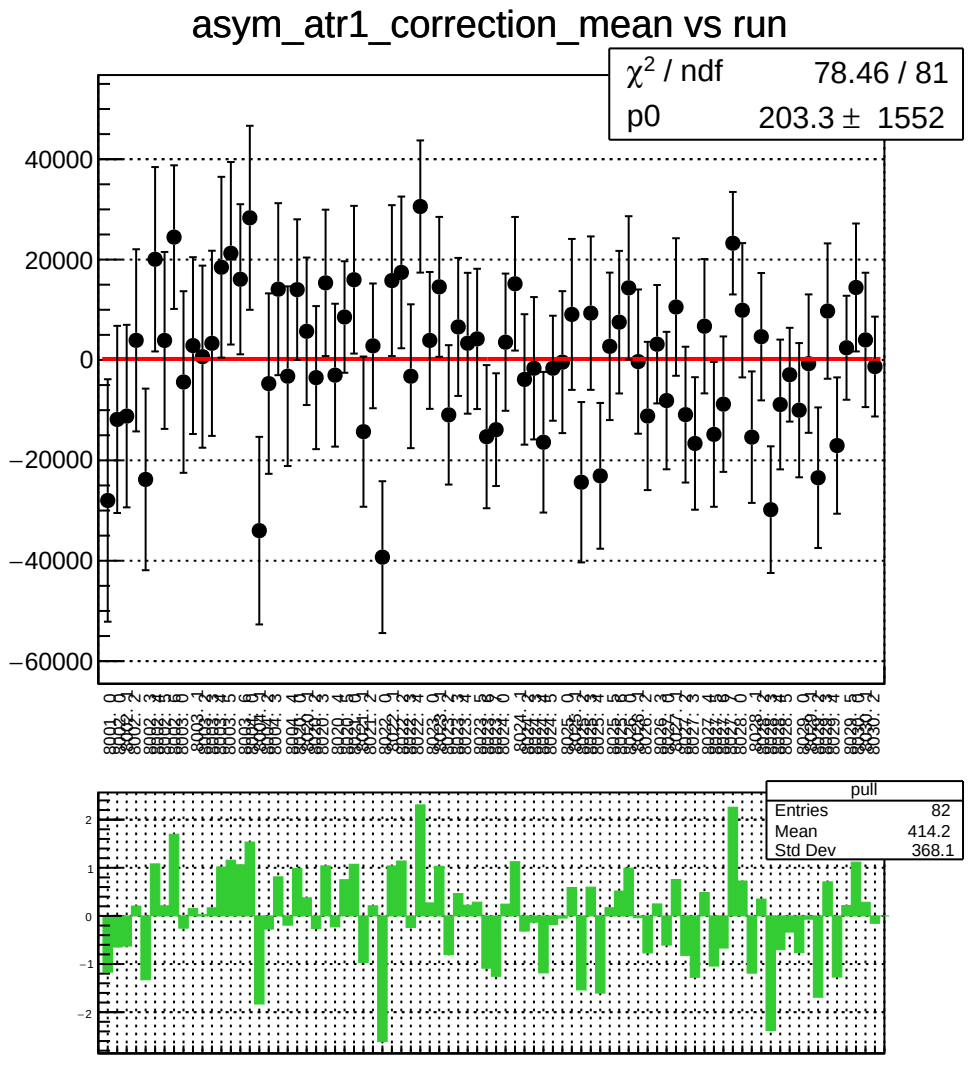

pull1D
Entries 82
Mean 0.0133
Std Dev 0.9638

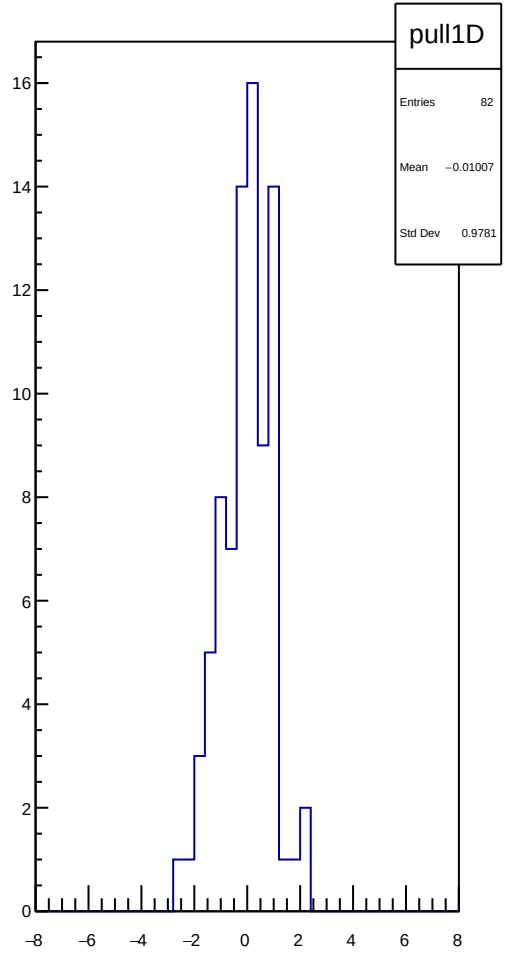

asym_atl2_rms vs run
χ² / ndf 3240 / 81
p0 9210 ± 7.287
10500
10000
9500
9000
8500


dit_asym_atr1_mean vs run
×10^3
χ² / ndf 86.54 / 81
p0 −4522 ± 3144
100
50
0
−50
−100
pull
Entries 82
Mean 415.8
Std Dev 408.4
2
1
0
−1
−2

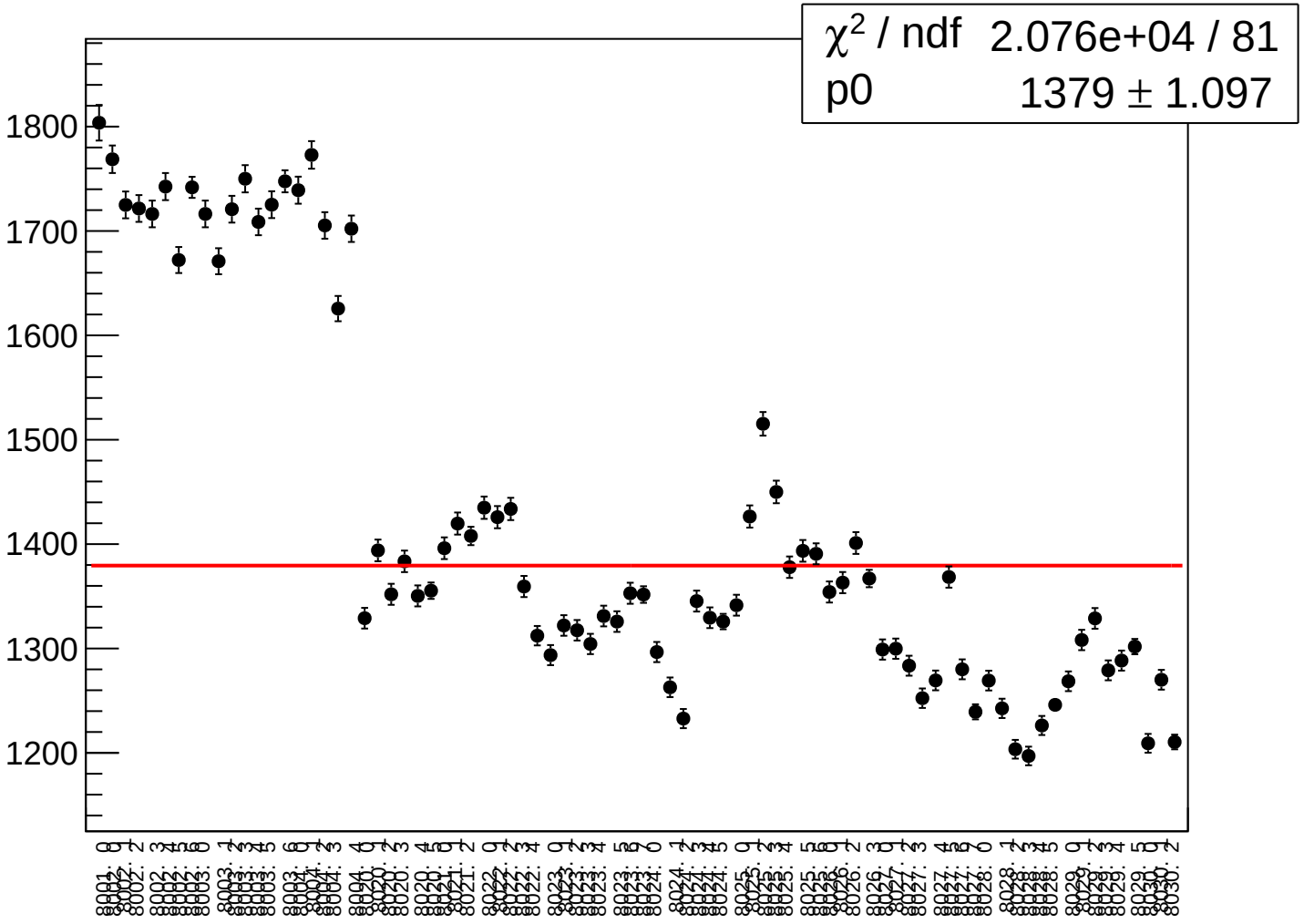

pull1D
Entries 82
Mean −0.005835
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

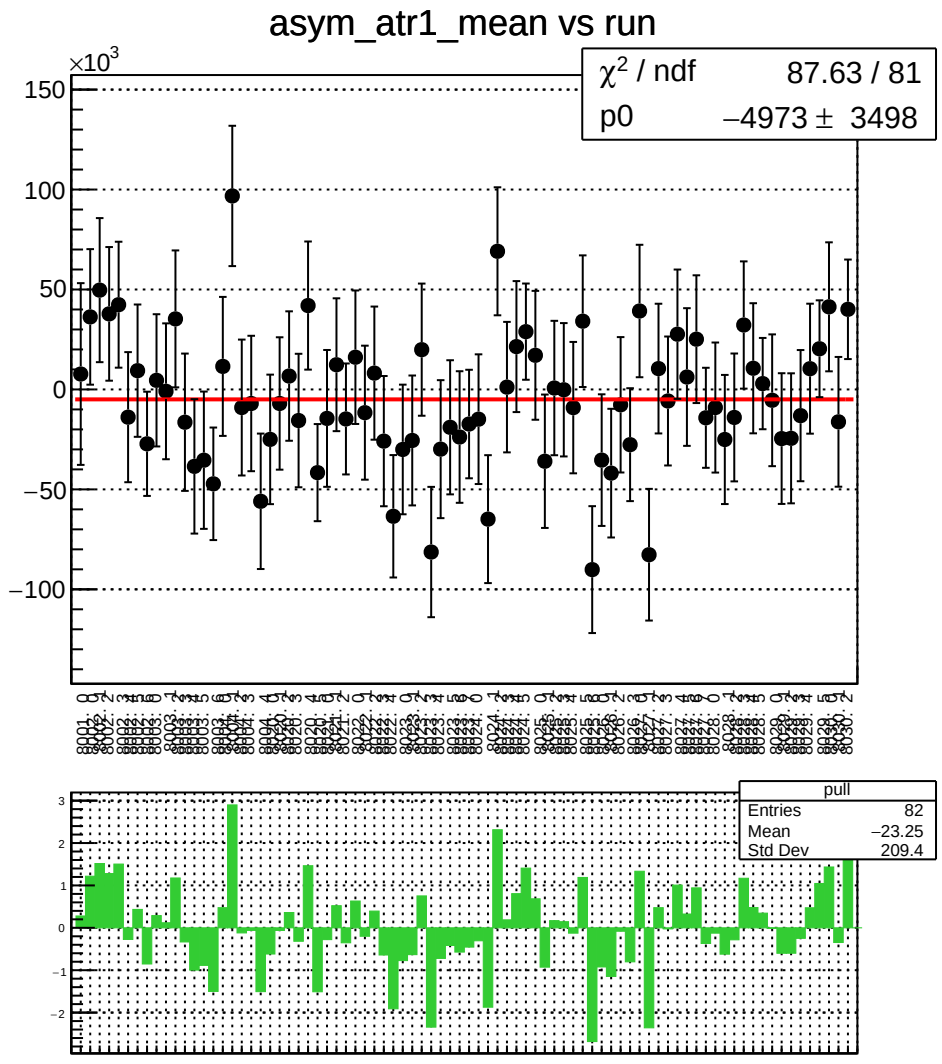

dit_asym_atr1_rms vs run
χ^2 / ndf 216 / 81
p0 2813 ± 2.223
2950
2900
2850
2800
2750

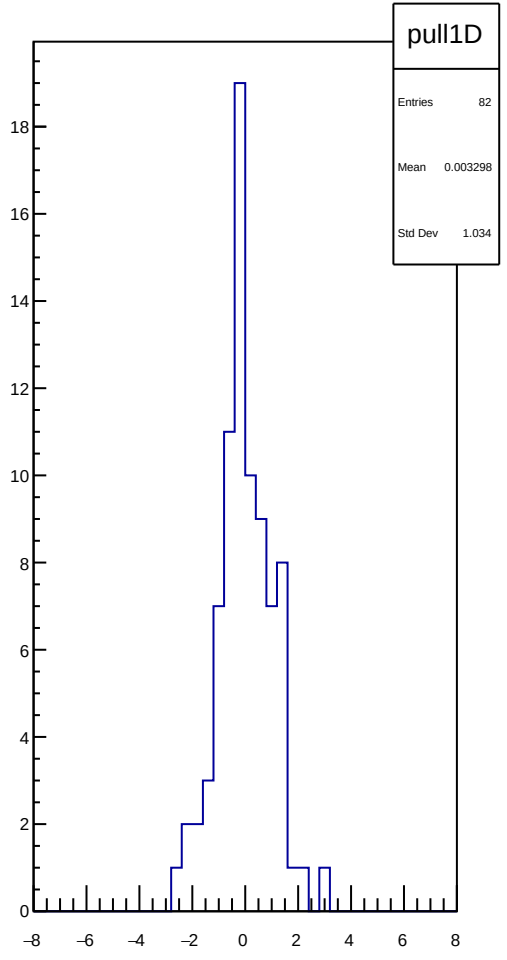

asym_atr1_correction_mean vs run
χ² / ndf 78.46 / 81
p0 203.3 ± 1552
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 414.2
Std Dev 368.1
2
1
0
−1
−2

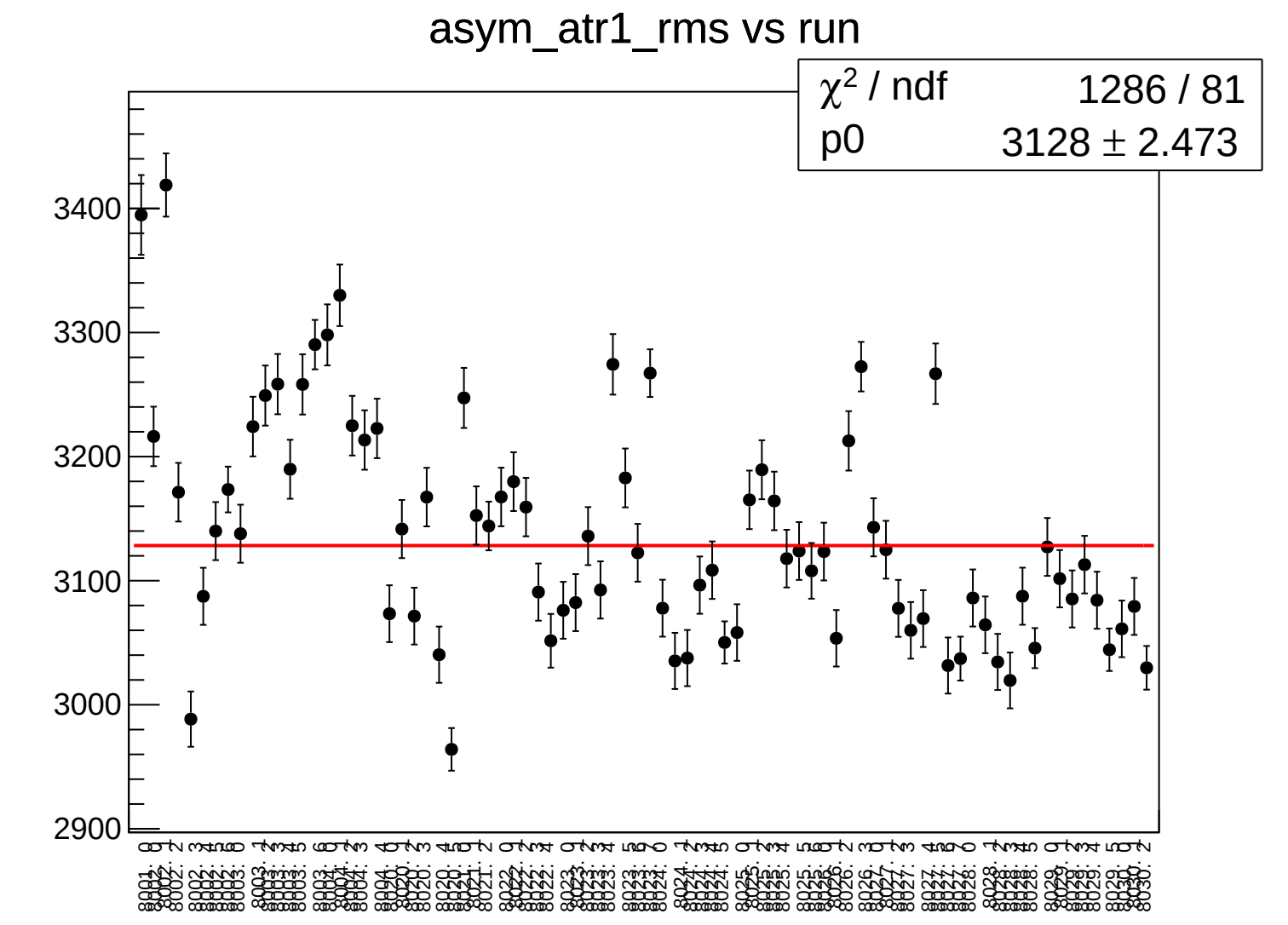

pull1D
Entries 82
Mean −0.01007
Std Dev 0.9781
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

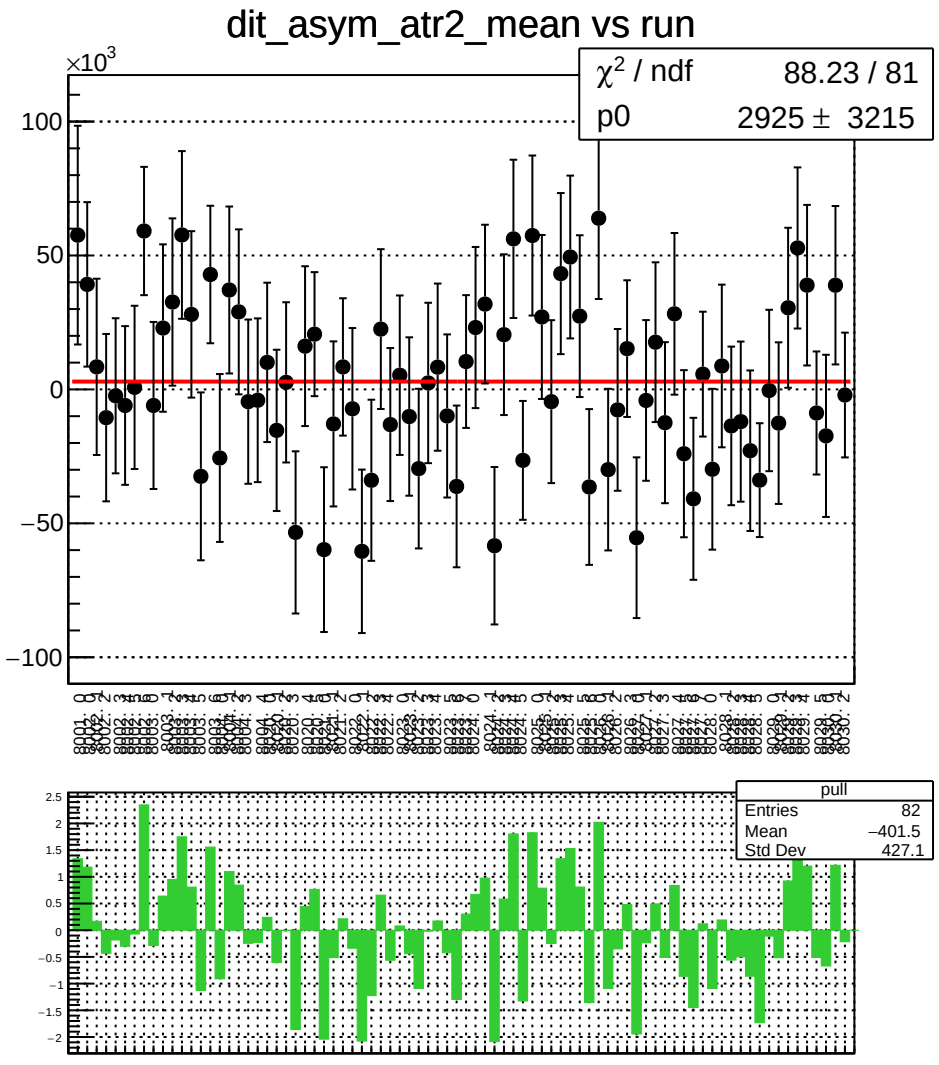
asym_atr1_correction_rms vs run

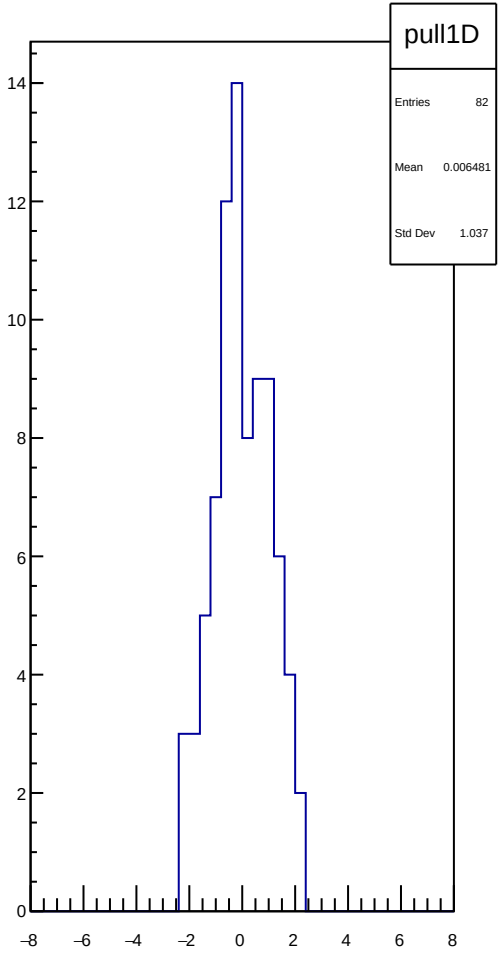


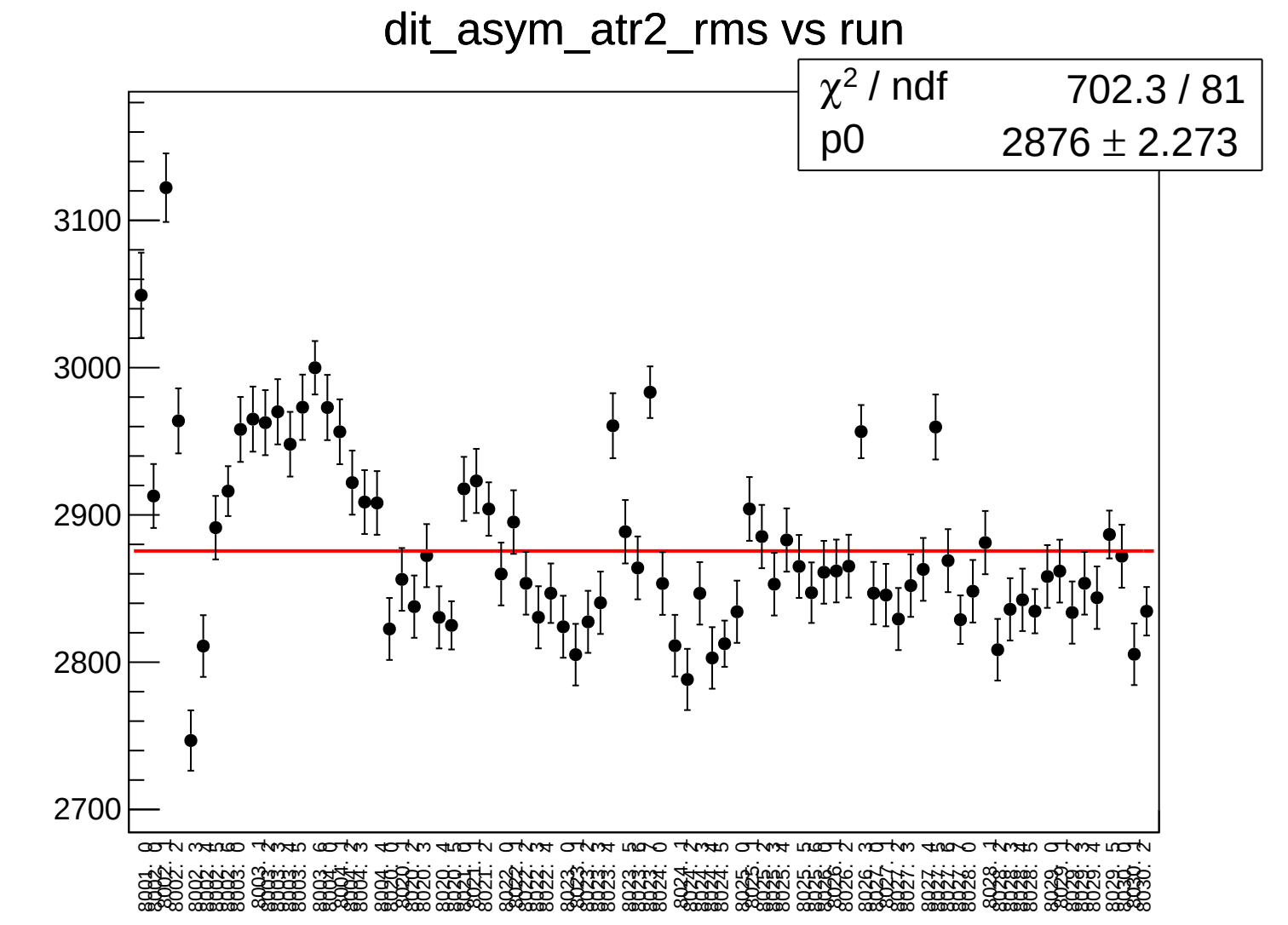

asym_atr1_mean vs run
×10^3
χ² / ndf 87.63 / 81
p0 −4973 ± 3498
150
100
50
0
−50
−100
pull
Entries 82
Mean −23.25
Std Dev 209.4
3
2
1
0
−1
−2

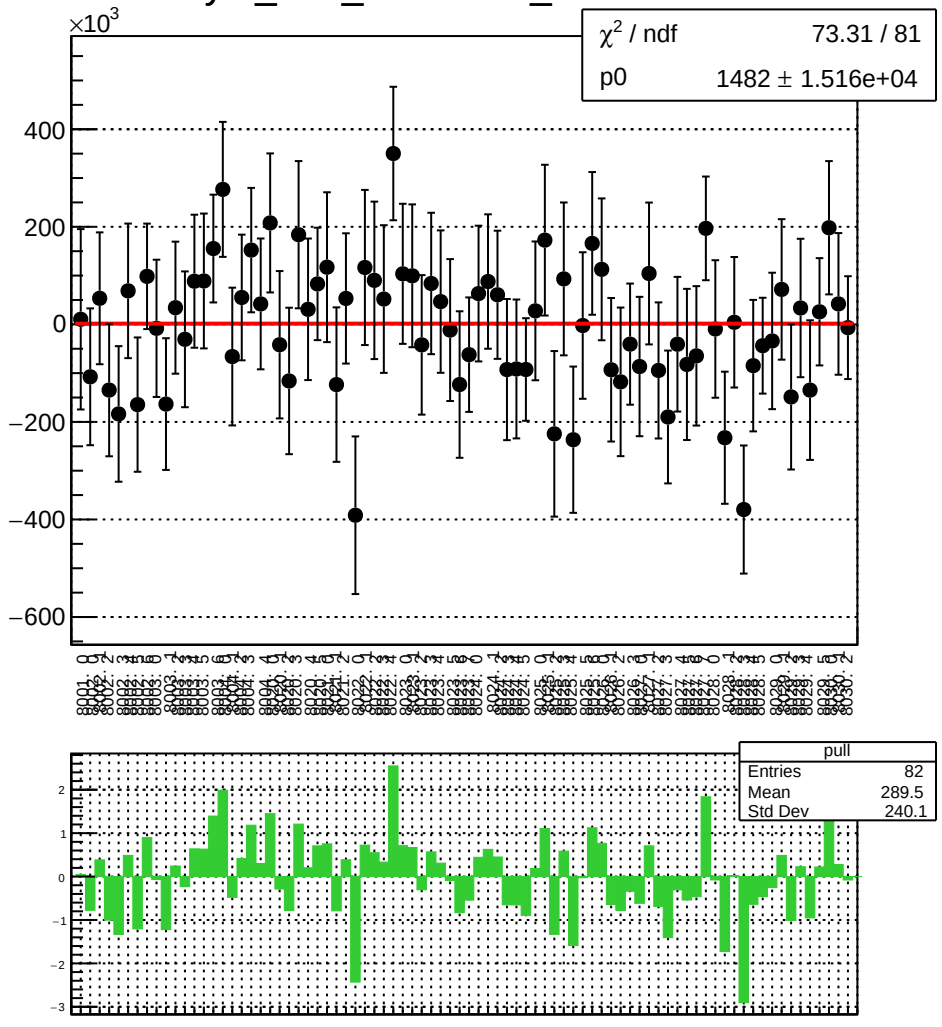

pull1D
Entries 82
Mean 0.003298
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

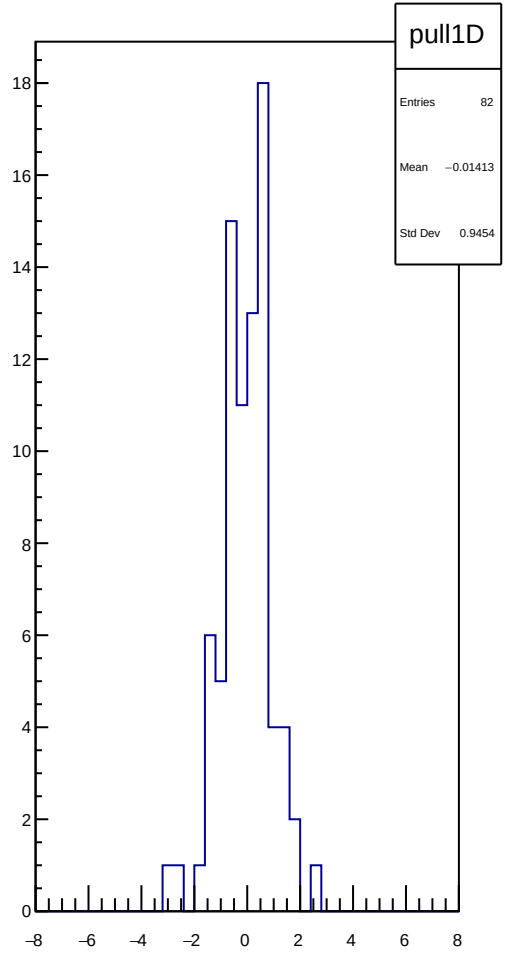

asym_atr1_rms vs run
χ² / ndf 1286 / 81
p0 3128 ± 2.473
3400
3300
3200
3100
3000
2900

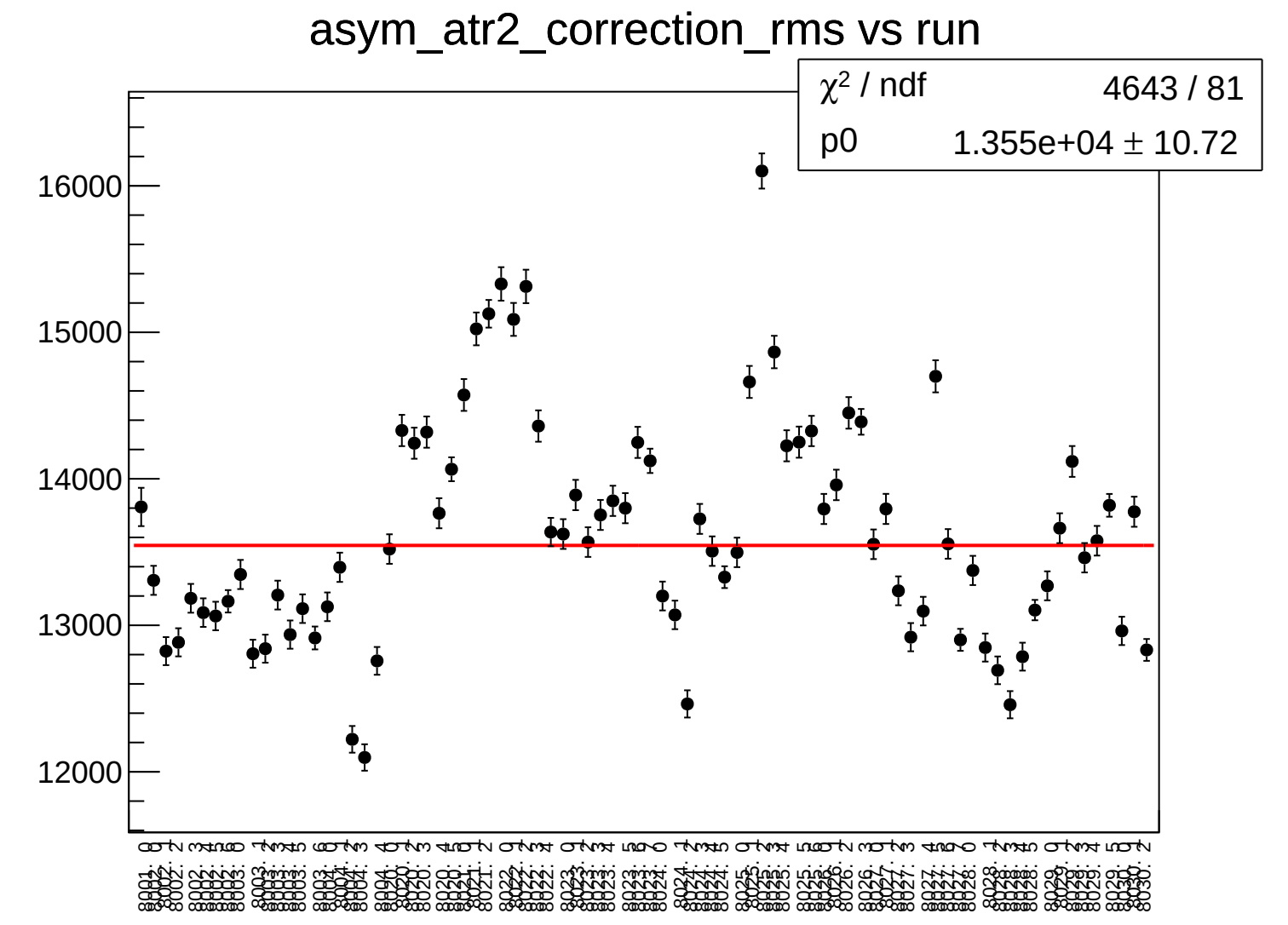

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 88.23 / 81
p0 2925 ± 3215
100
50
0
−50
−100
pull
Entries 82
Mean −401.5
Std Dev 427.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

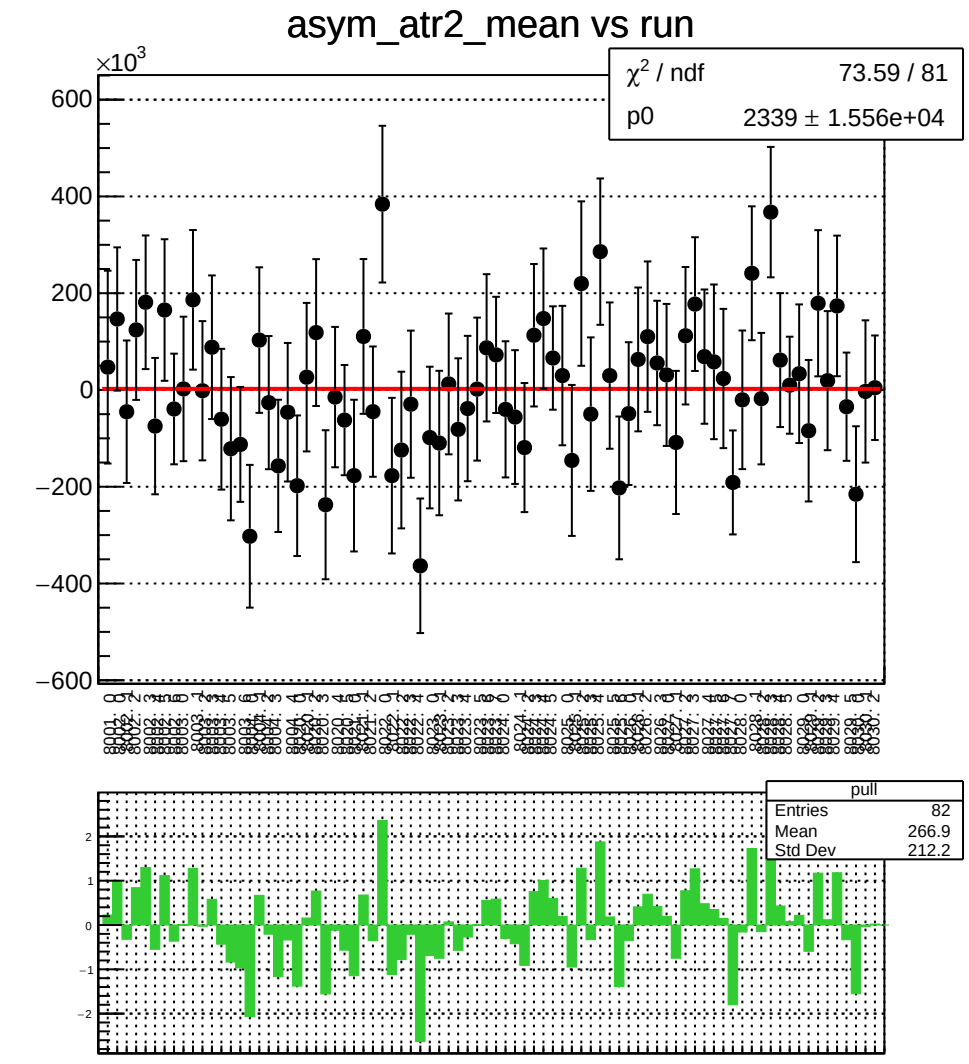

pull1D
Entries 82
Mean 0.006481
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

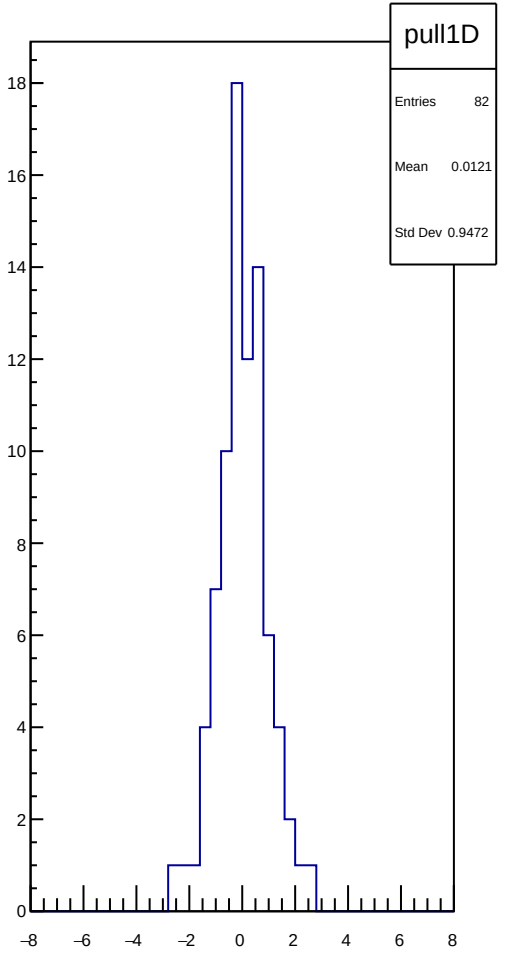

dit_asym_atr2_rms vs run
χ² / ndf 702.3 / 81
p0 2876 ± 2.273
3100
3000
2900
2800
2700

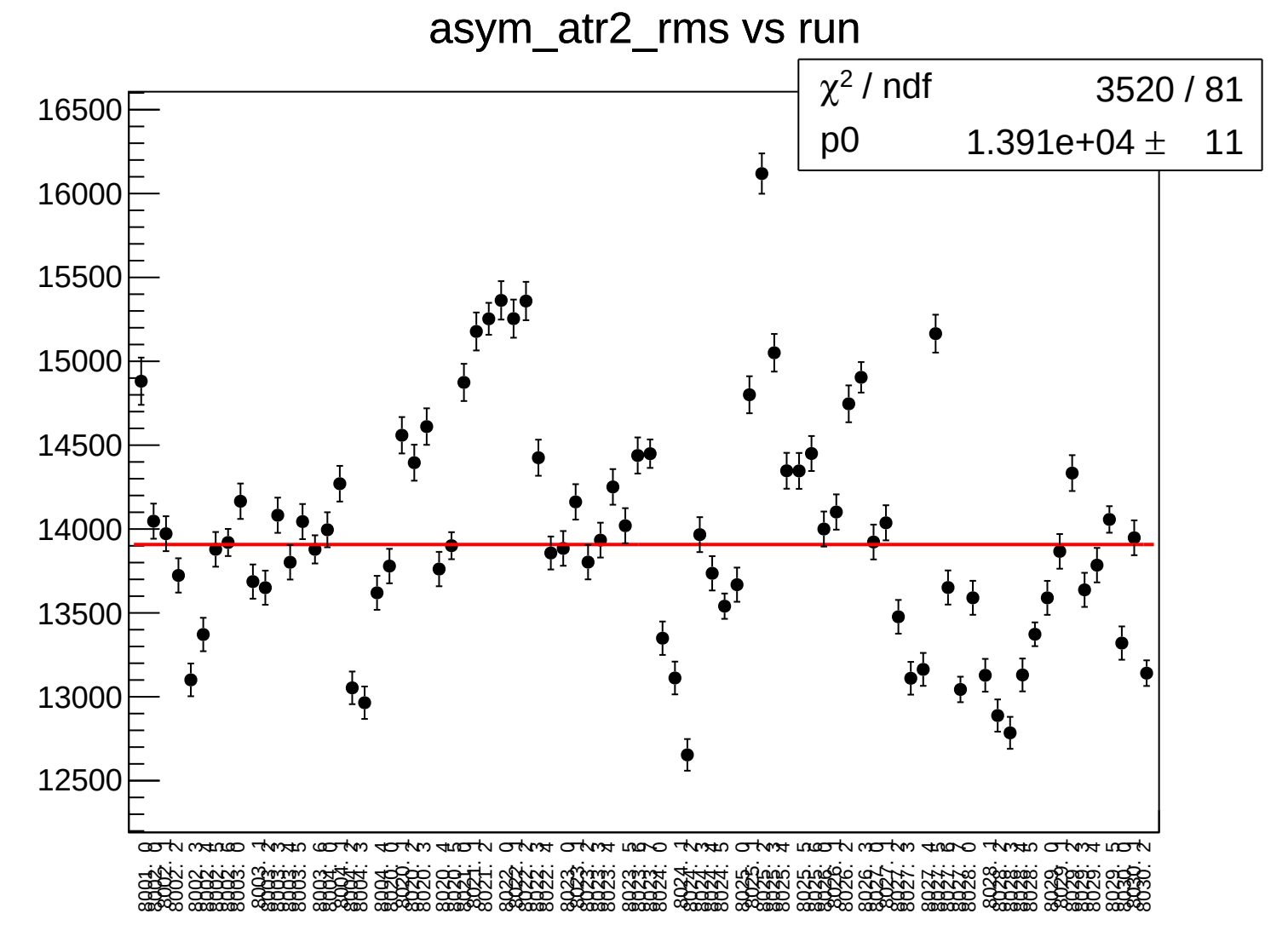

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 73.31 / 81
p0 1482 ± 1.516e+04
400
200
0
−200
−400
−600
pull
Entries 82
Mean 289.5
Std Dev 240.1
2
1
0
−1
−2
−3

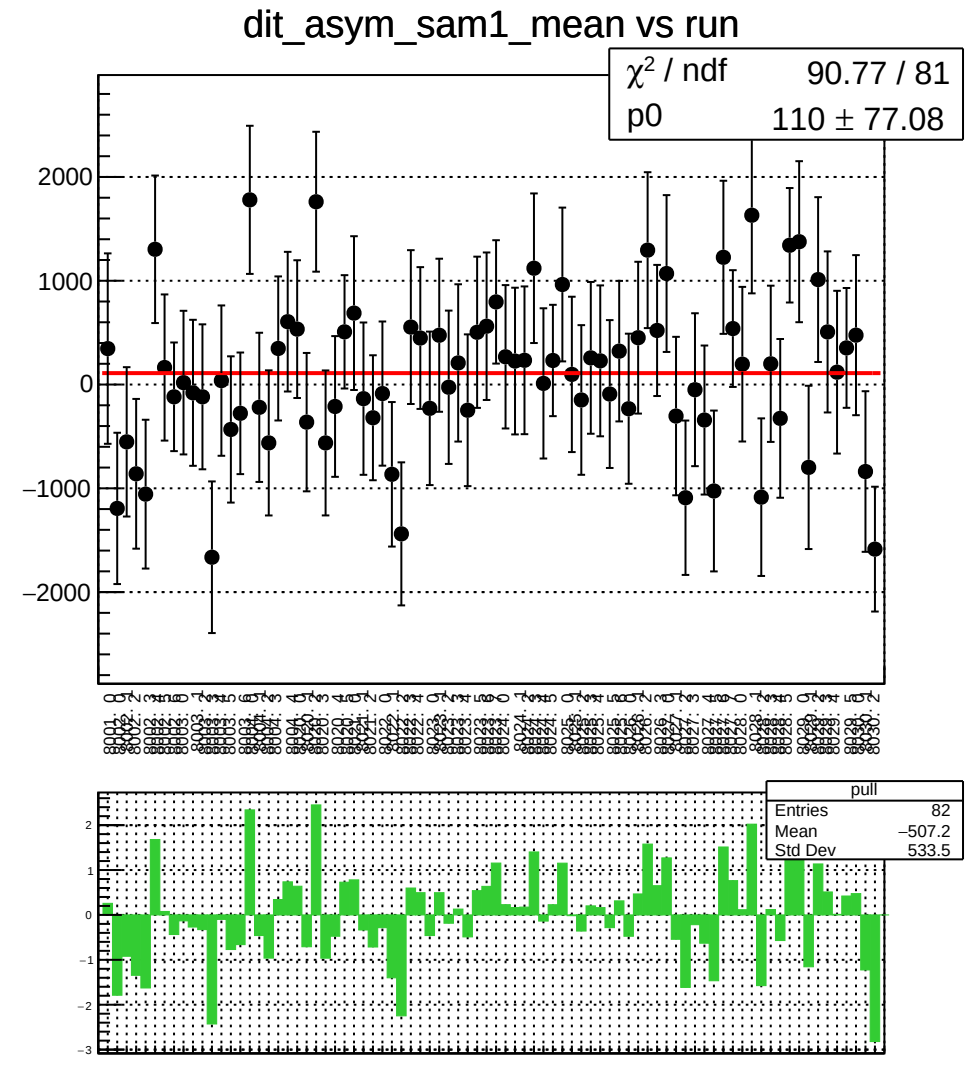

pull1D
Entries 82
Mean −0.01413
Std Dev 0.9454
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

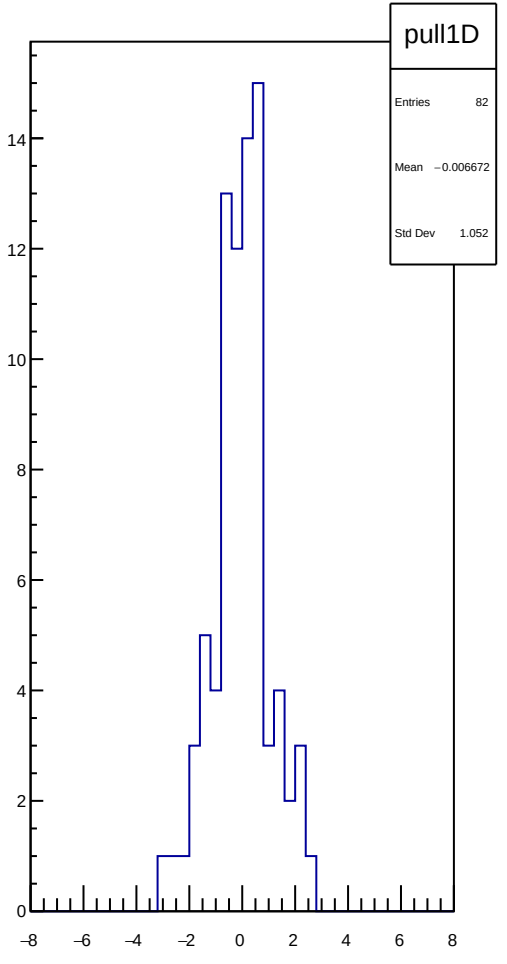

asym_atr2_correction_rms vs run
χ² / ndf 4643 / 81
p0 1.355e+04 ± 10.72
16000
15000
14000
13000
12000

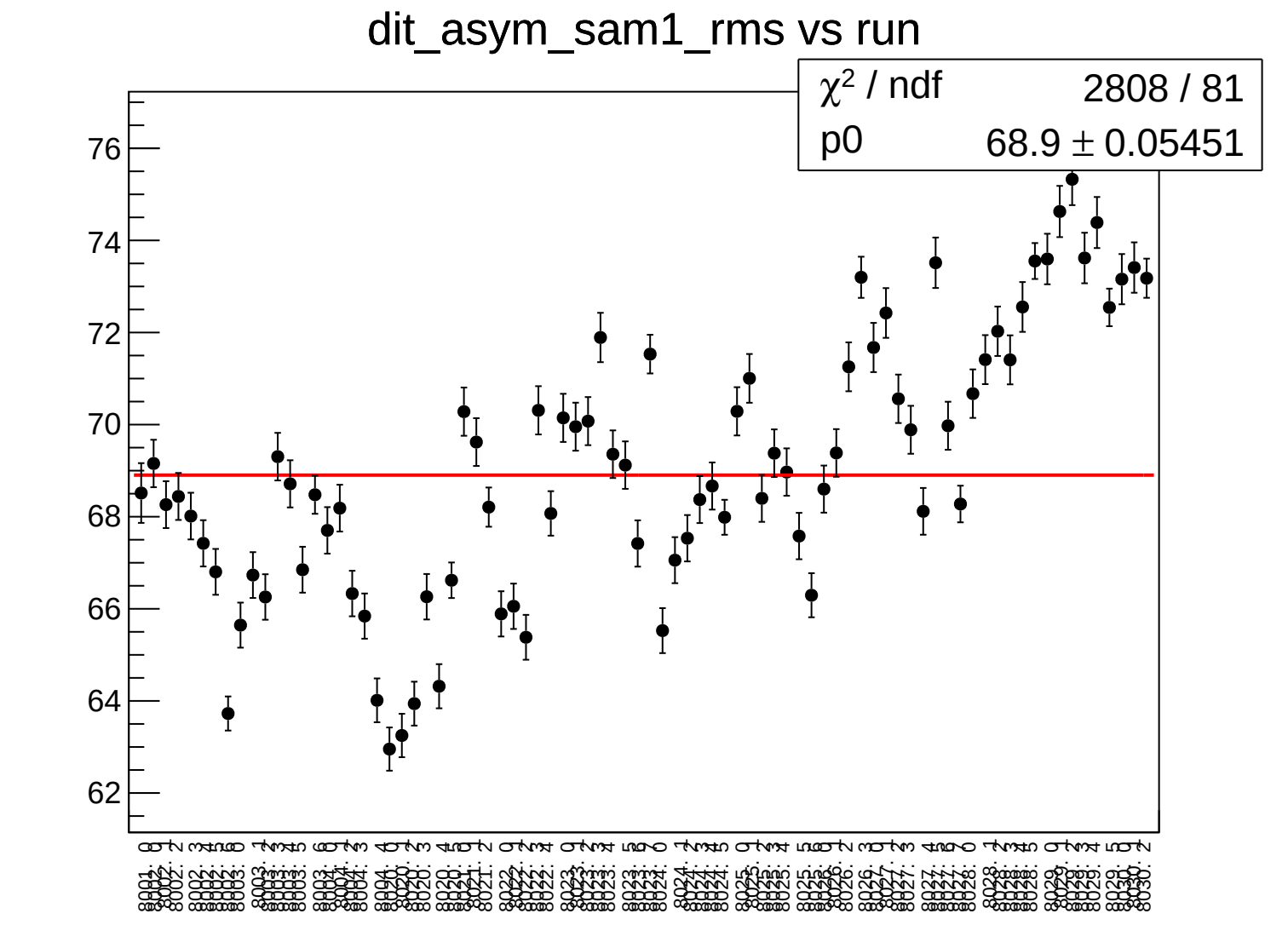

asym_atr2_mean vs run
×10^3
χ² / ndf 73.59 / 81
p0 2339 ± 1.556e+04
pull
Entries 82
Mean 266.9
Std Dev 212.2

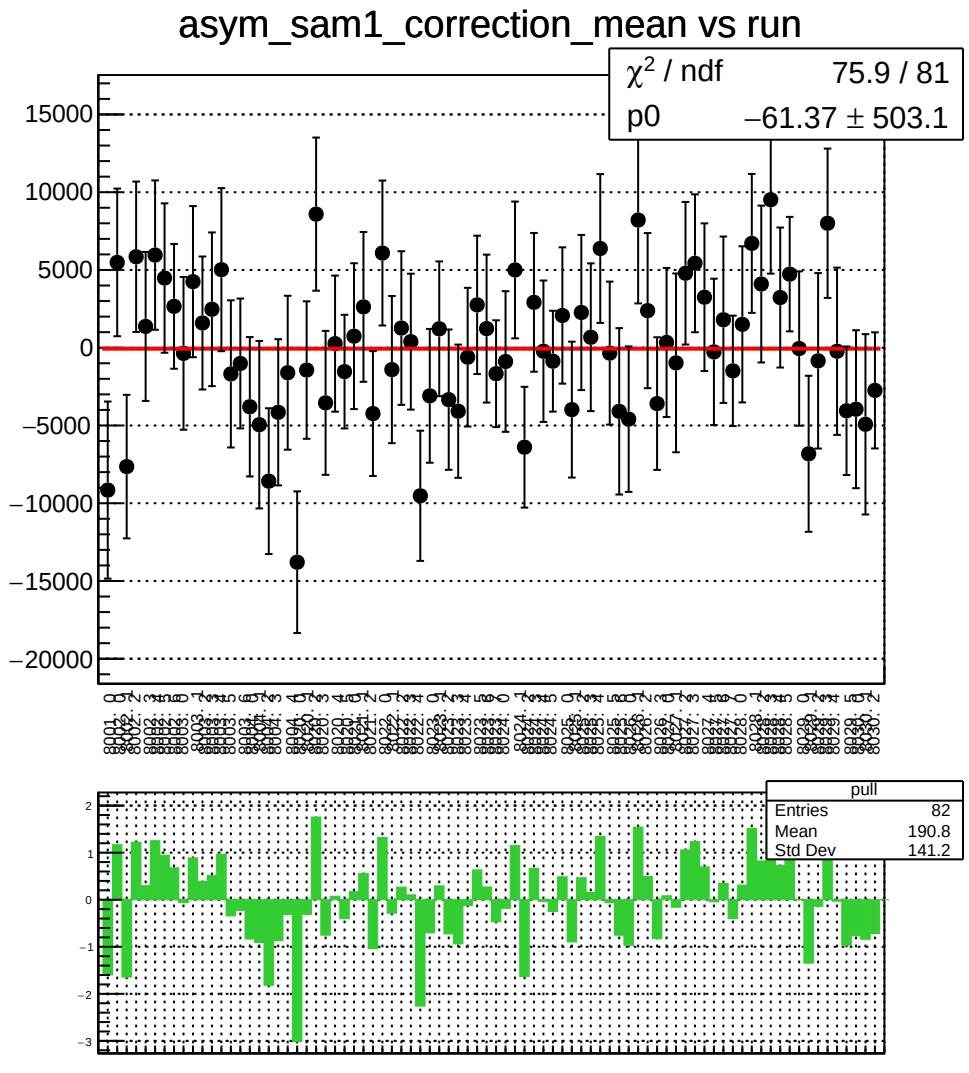

pull1D
Entries 82
Mean 0.0121
Std Dev 0.9472

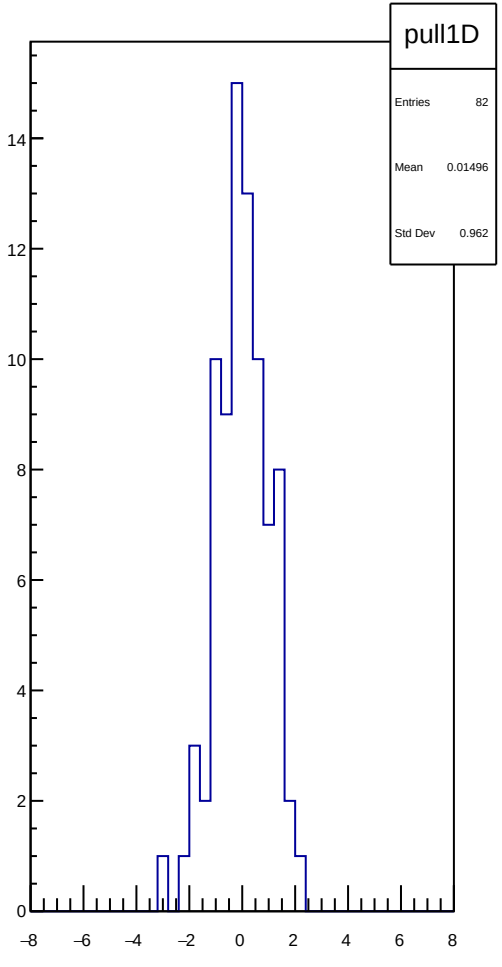

asym_atr2_rms vs run
χ² / ndf 3520 / 81
p0 1.391e+04 ± 11
16500
16000
15500
15000
14500
14000
13500
13000
12500

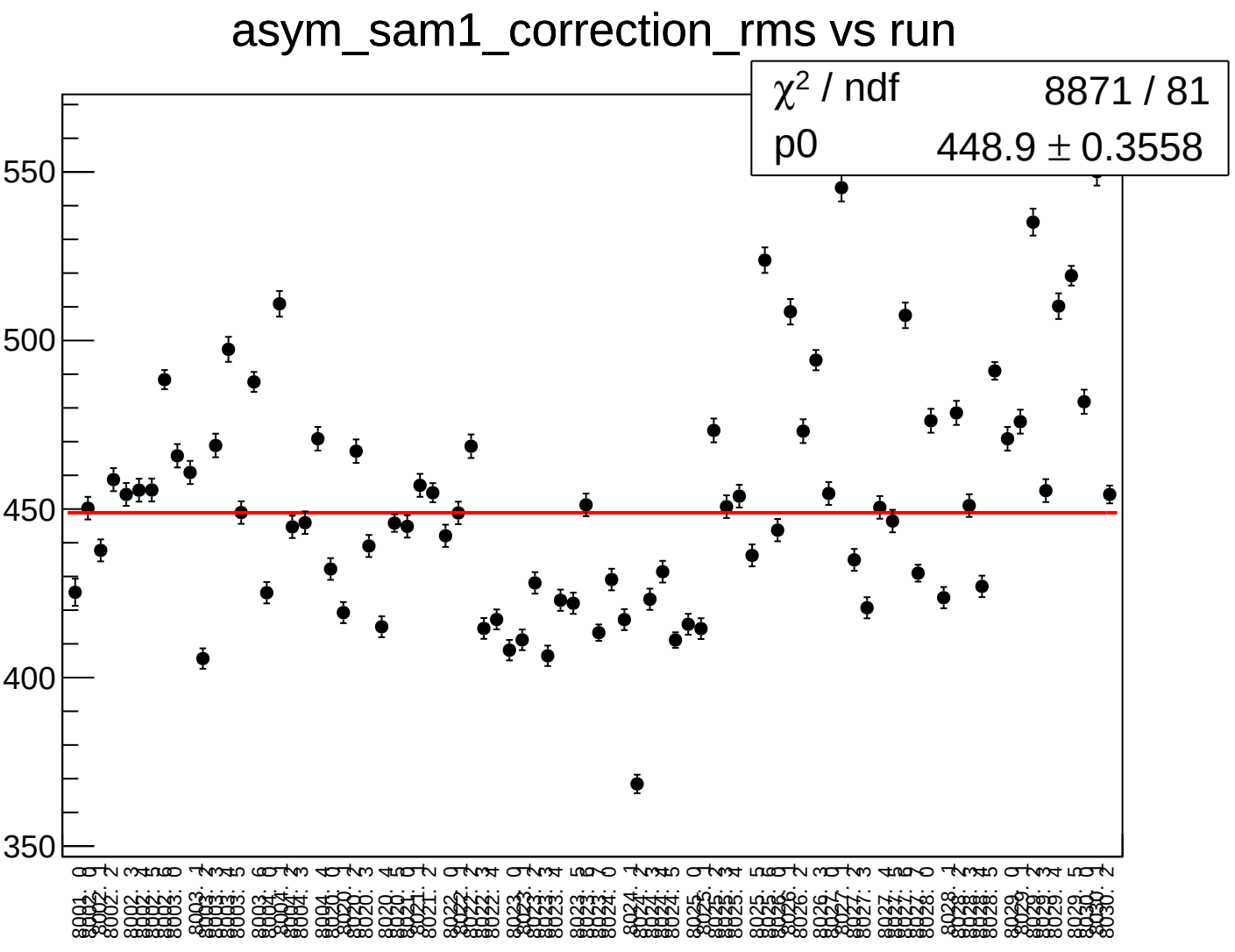

dit_asym_sam1_mean vs run
χ² / ndf 90.77 / 81
p0 110 ± 77.08
2000
1000
0
−1000
−2000
pull
Entries 82
Mean −507.2
Std Dev 533.5
2
1
0
−1
−2
−3

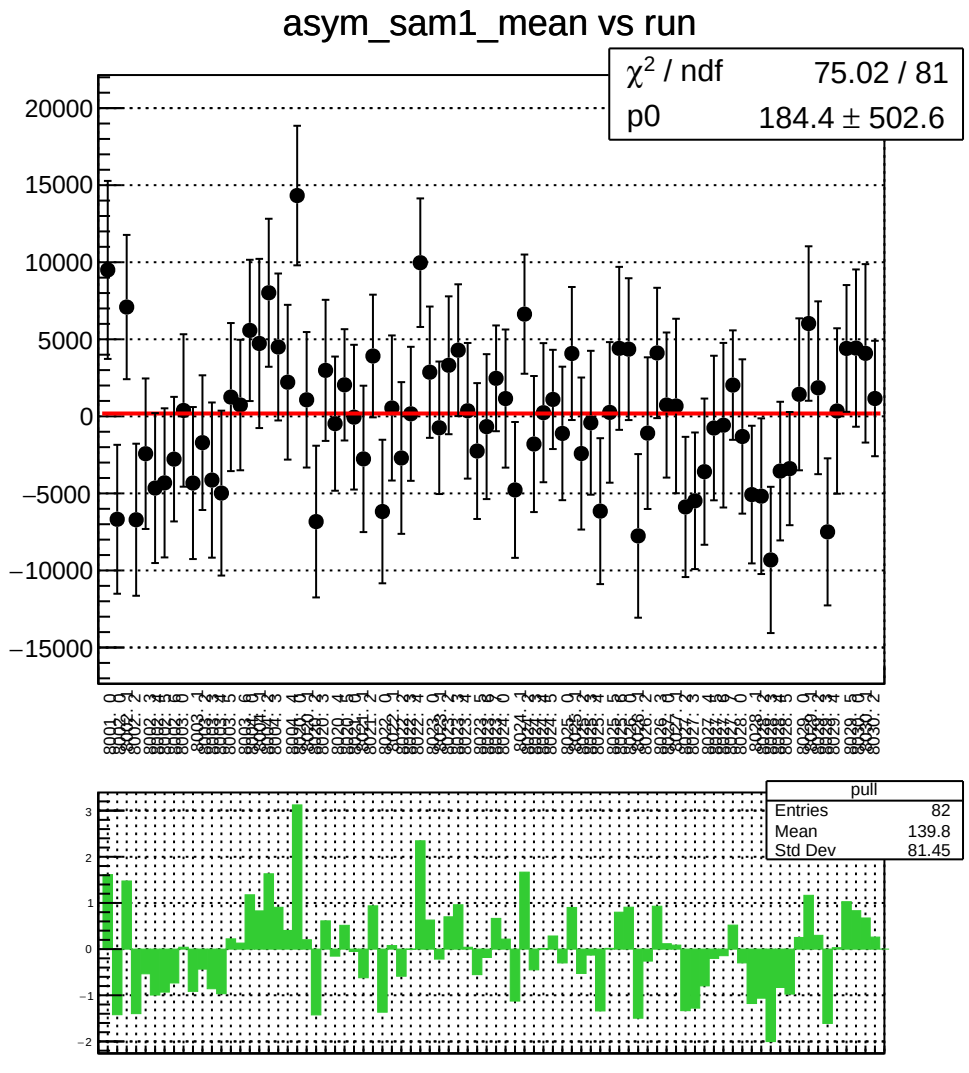

pull1D
Entries 82
Mean −0.006672
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

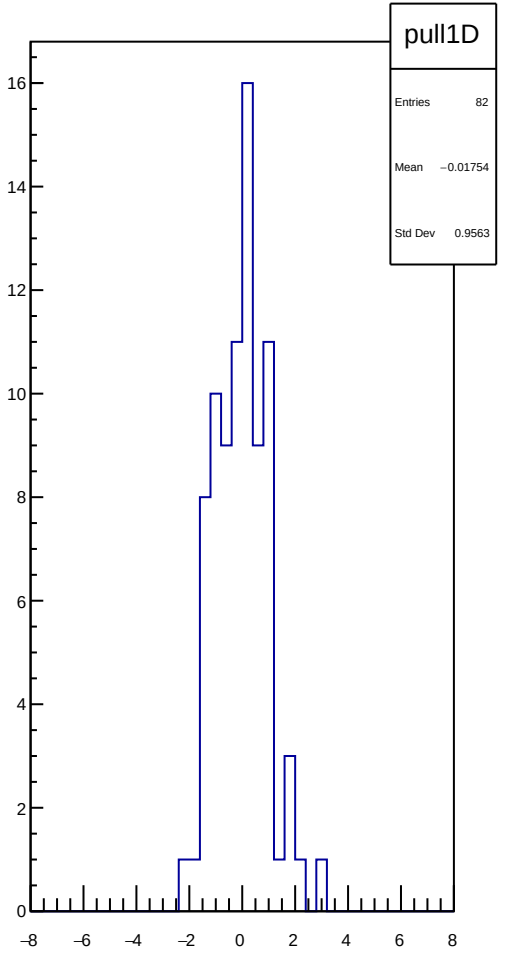

dit_asym_sam1_rms vs run
χ² / ndf 2808 / 81
p0 68.9 ± 0.05451
76
74
72
70
68
66
64
62

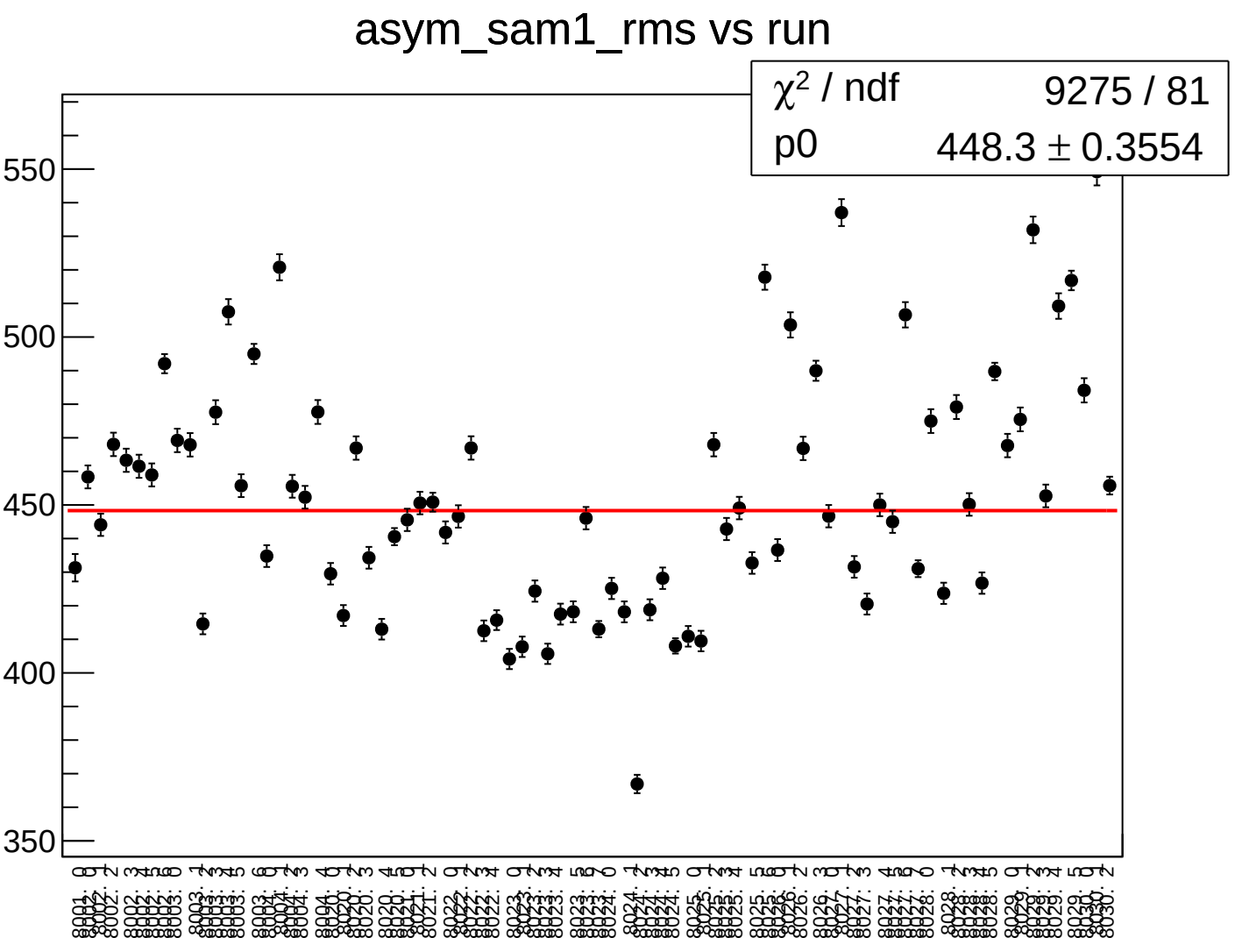

asym_sam1_correction_mean vs run
χ² / ndf 75.9 / 81
p0 −61.37 ± 503.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 82
Mean 190.8
Std Dev 141.2
2
1
0
−1
−2
−3

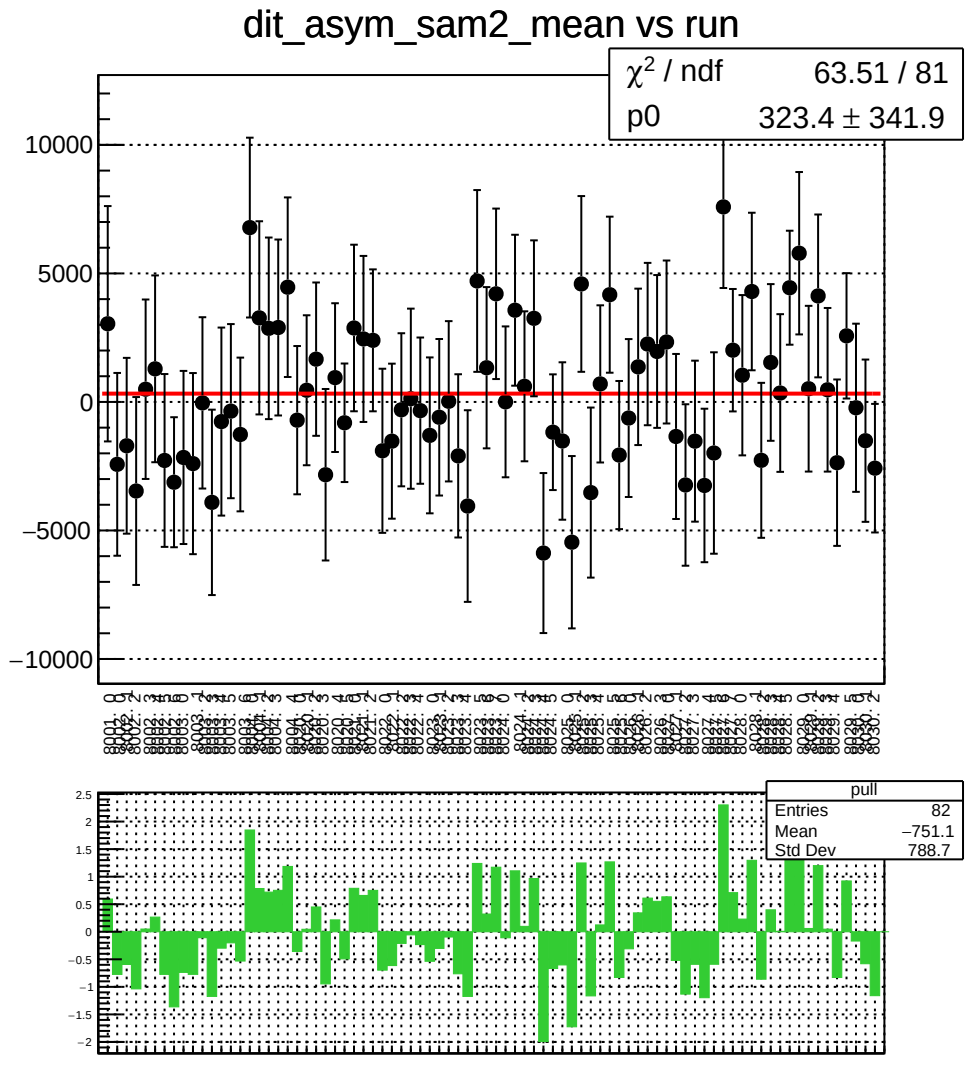

pull1D
Entries 82
Mean 0.01496
Std Dev 0.962
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

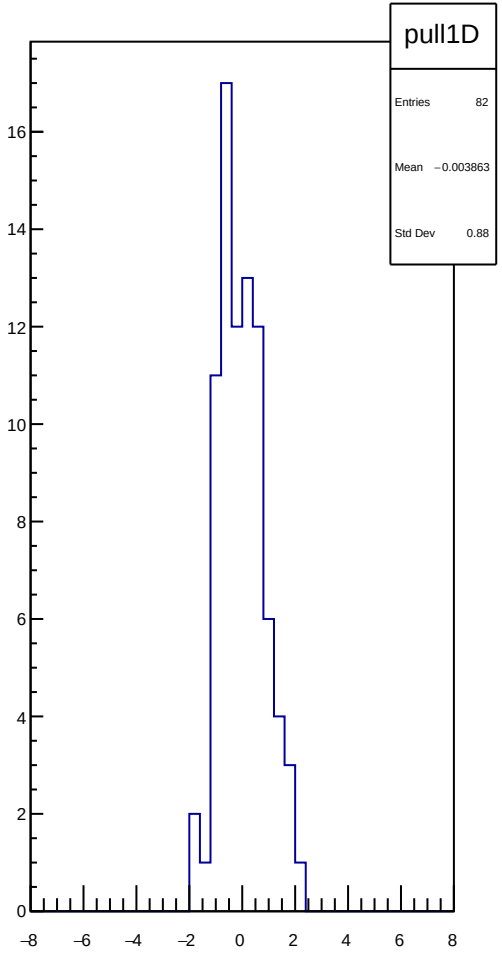

asym_sam1_correction_rms vs run
χ² / ndf 8871 / 81
p0 448.9 ± 0.3558
550
500
450
400
350

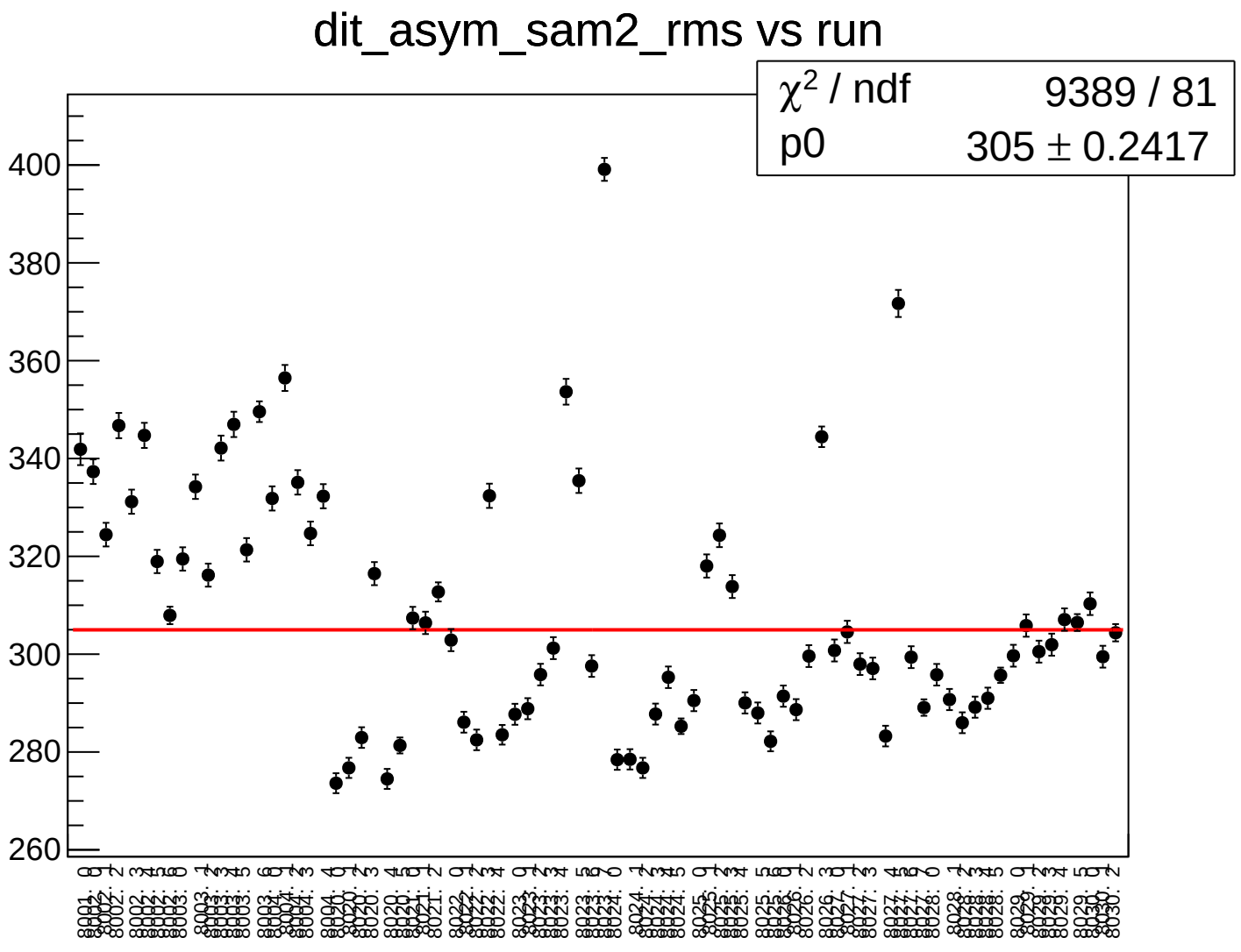

asym_sam1_mean vs run
χ² / ndf 75.02 / 81
p0 184.4 ± 502.6
pull
Entries 82
Mean 139.8
Std Dev 81.45

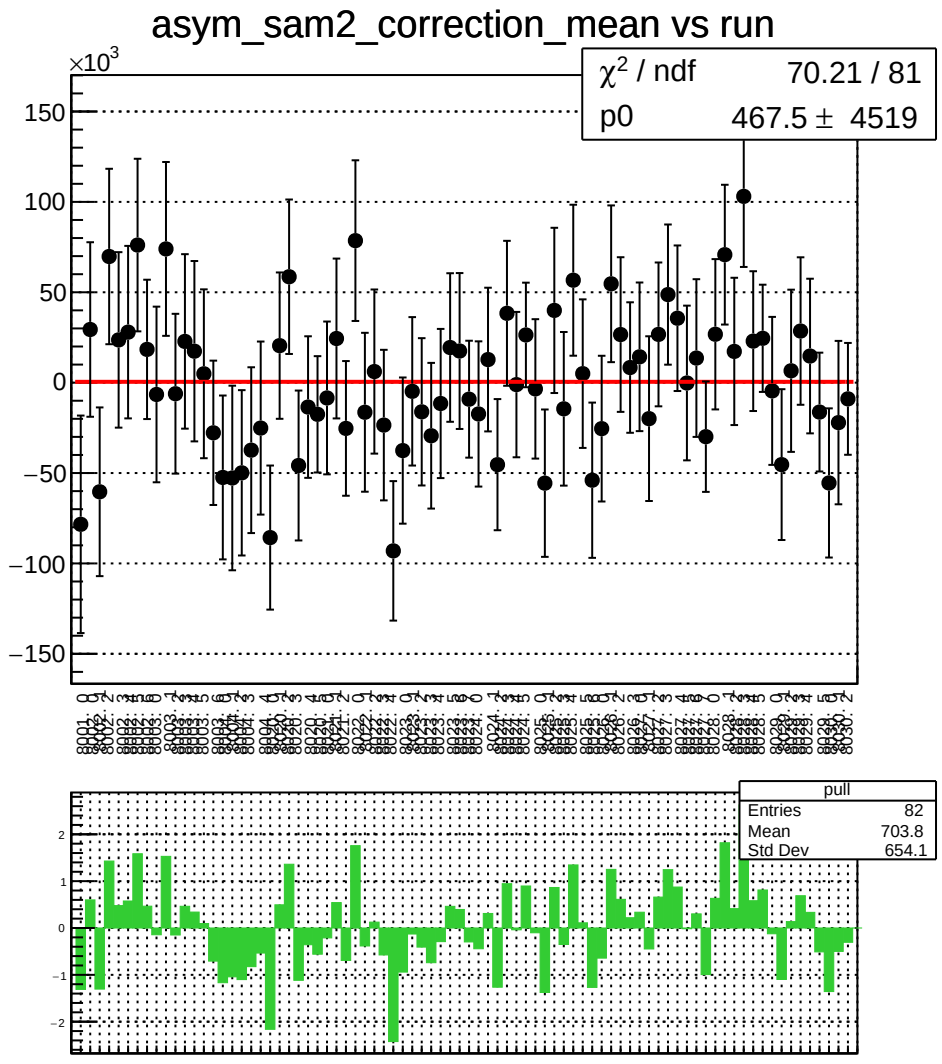

pull1D
Entries 82
Mean −0.01754
Std Dev 0.9563

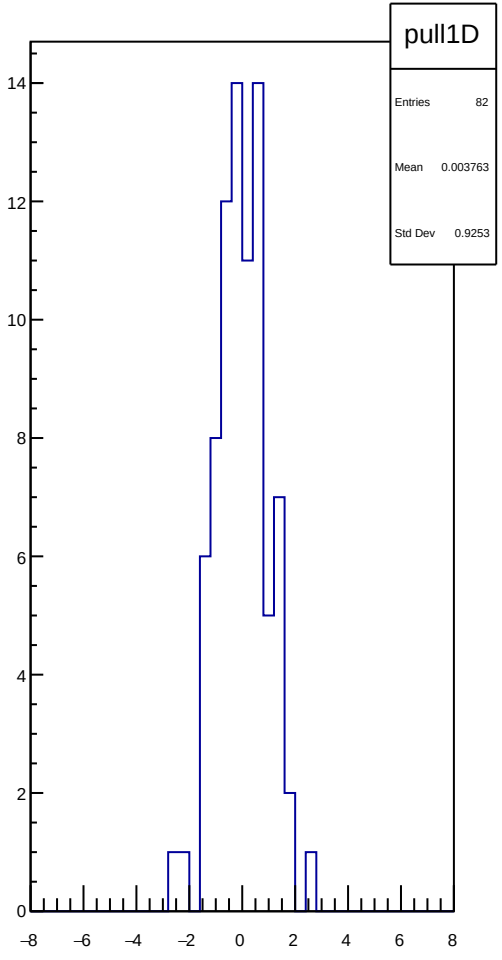

asym_sam1_rms vs run
χ² / ndf 9275 / 81
p0 448.3 ± 0.3554
550
500
450
400
350

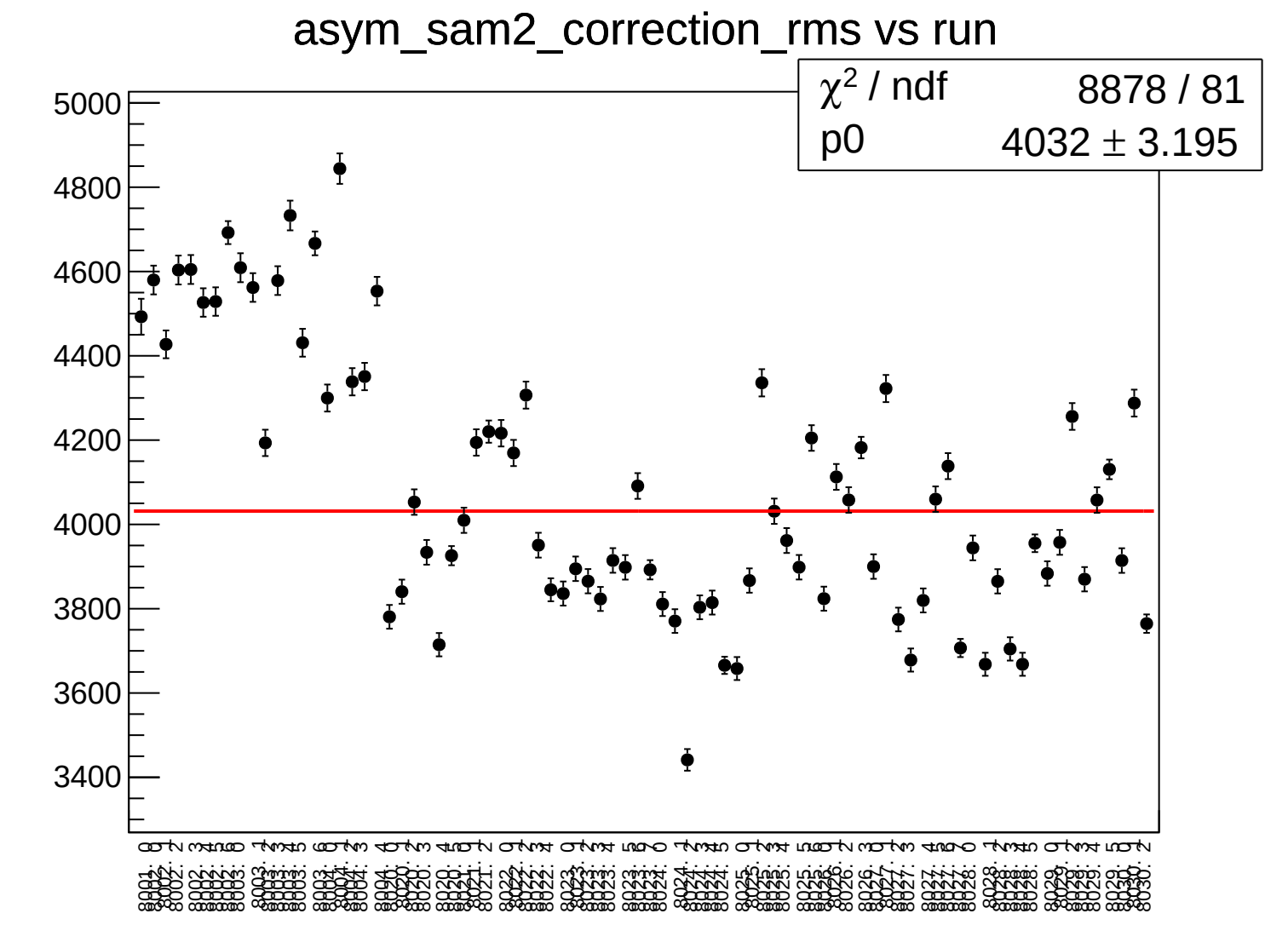

dit_asym_sam2_mean vs run
χ² / ndf 63.51 / 81
p0 323.4 ± 341.9
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −751.1
Std Dev 788.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

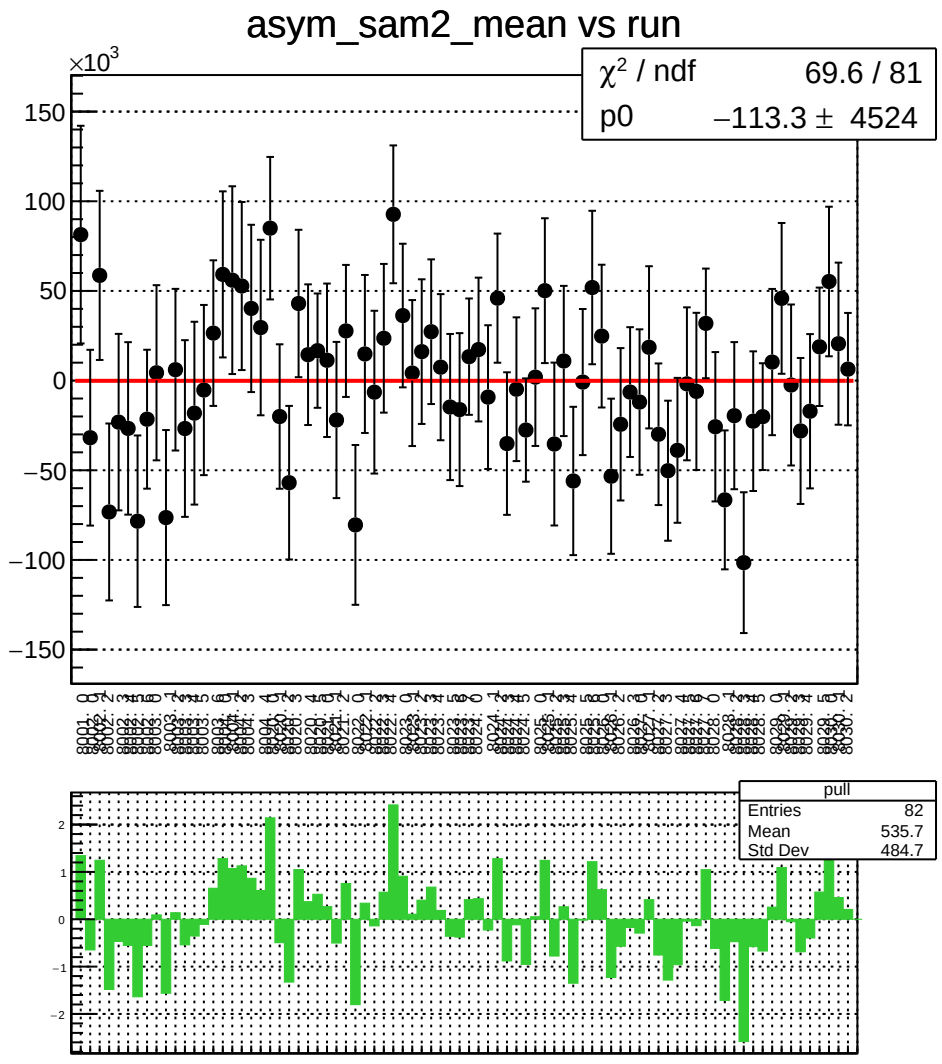

pull1D
Entries 82
Mean −0.003863
Std Dev 0.88
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

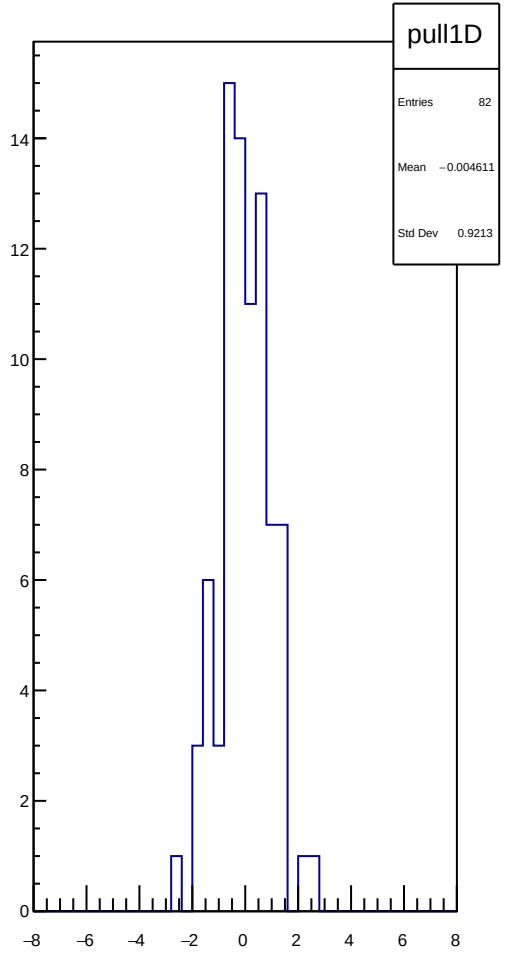

dit_asym_sam2_rms vs run
χ² / ndf 9389 / 81
p0 305 ± 0.2417
400
380
360
340
320
300
280
260

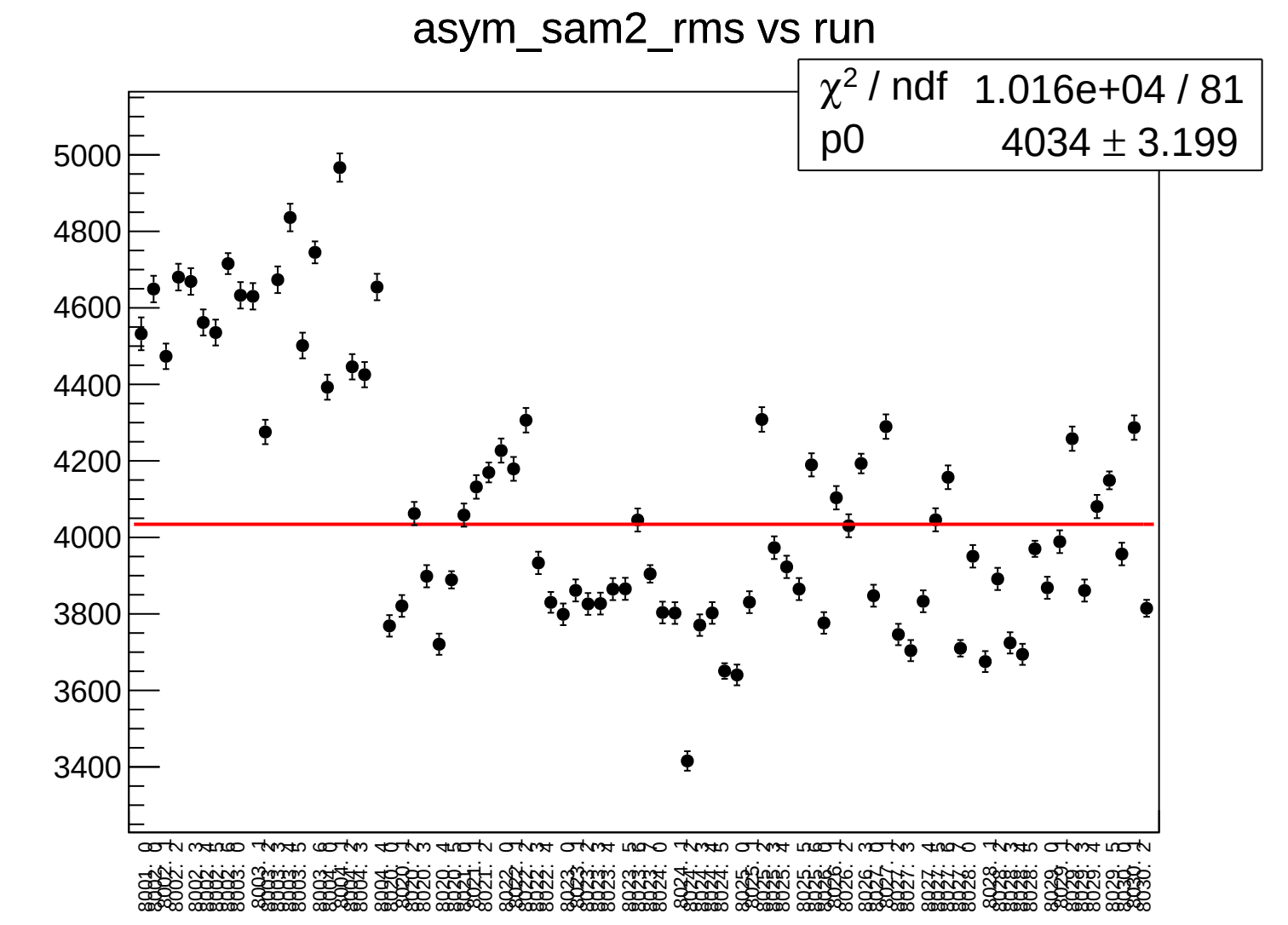

asym_sam2_correction_mean vs run
×10^3
χ^2 / ndf 70.21 / 81
p0 467.5 ± 4519
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 703.8
Std Dev 654.1
2
1
0
−1
−2

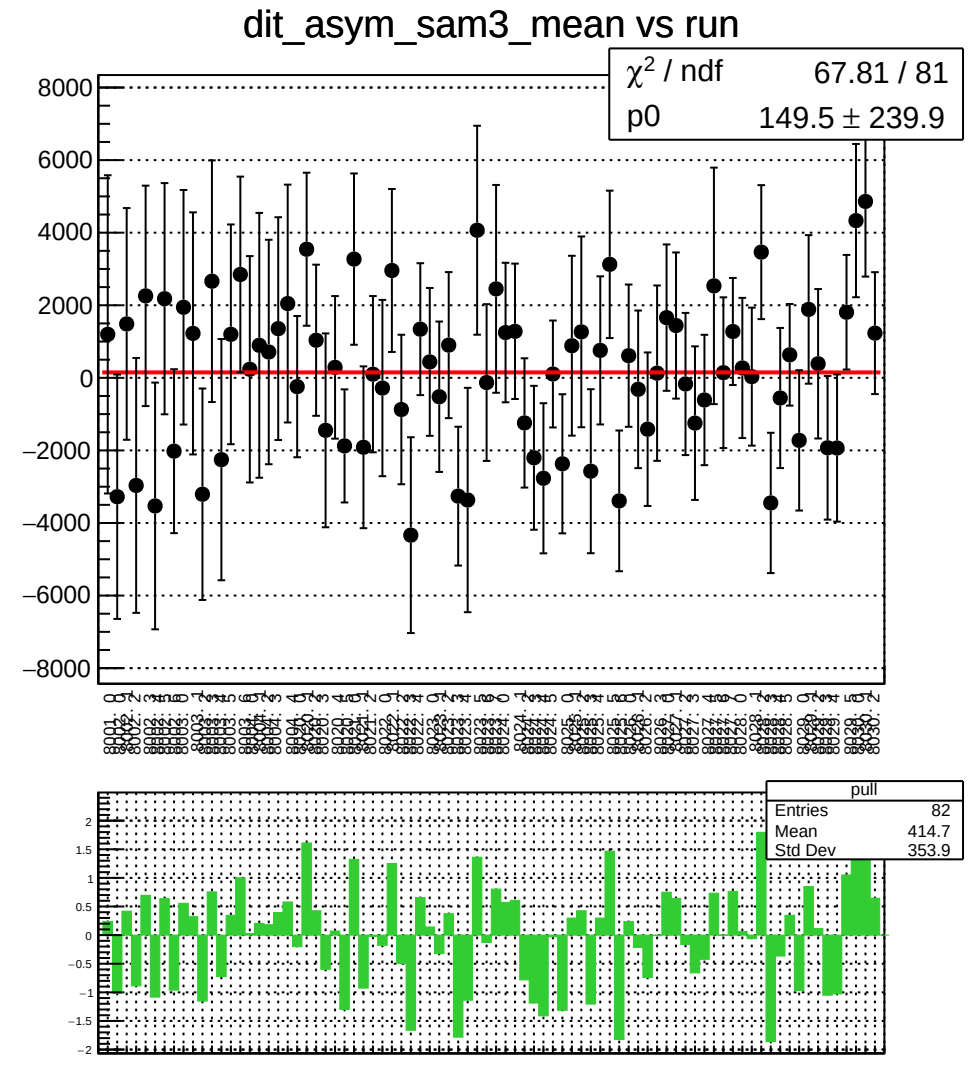

pull1D
Entries 82
Mean 0.003763
Std Dev 0.9253
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

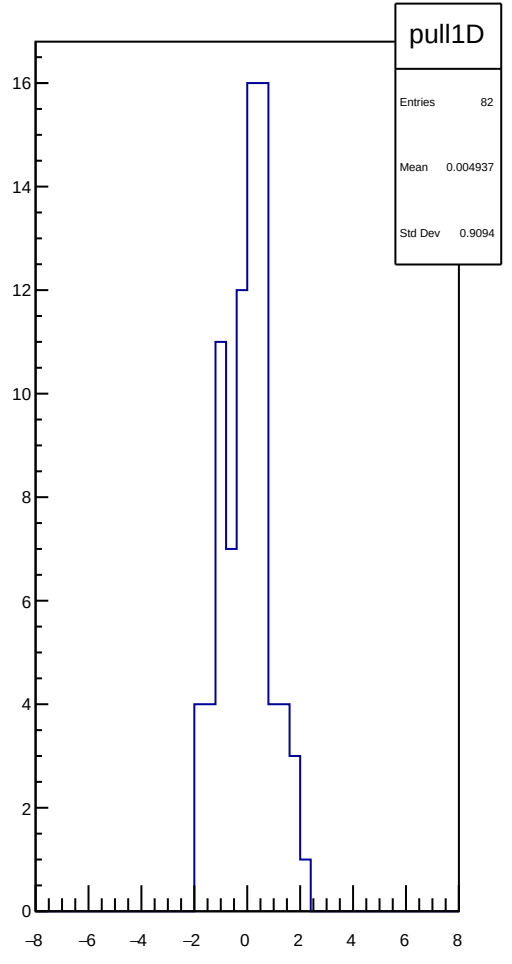

asym_sam2_correction_rms vs run
χ² / ndf 8878 / 81
p0 4032 ± 3.195
5000
4800
4600
4400
4200
4000
3800
3600
3400

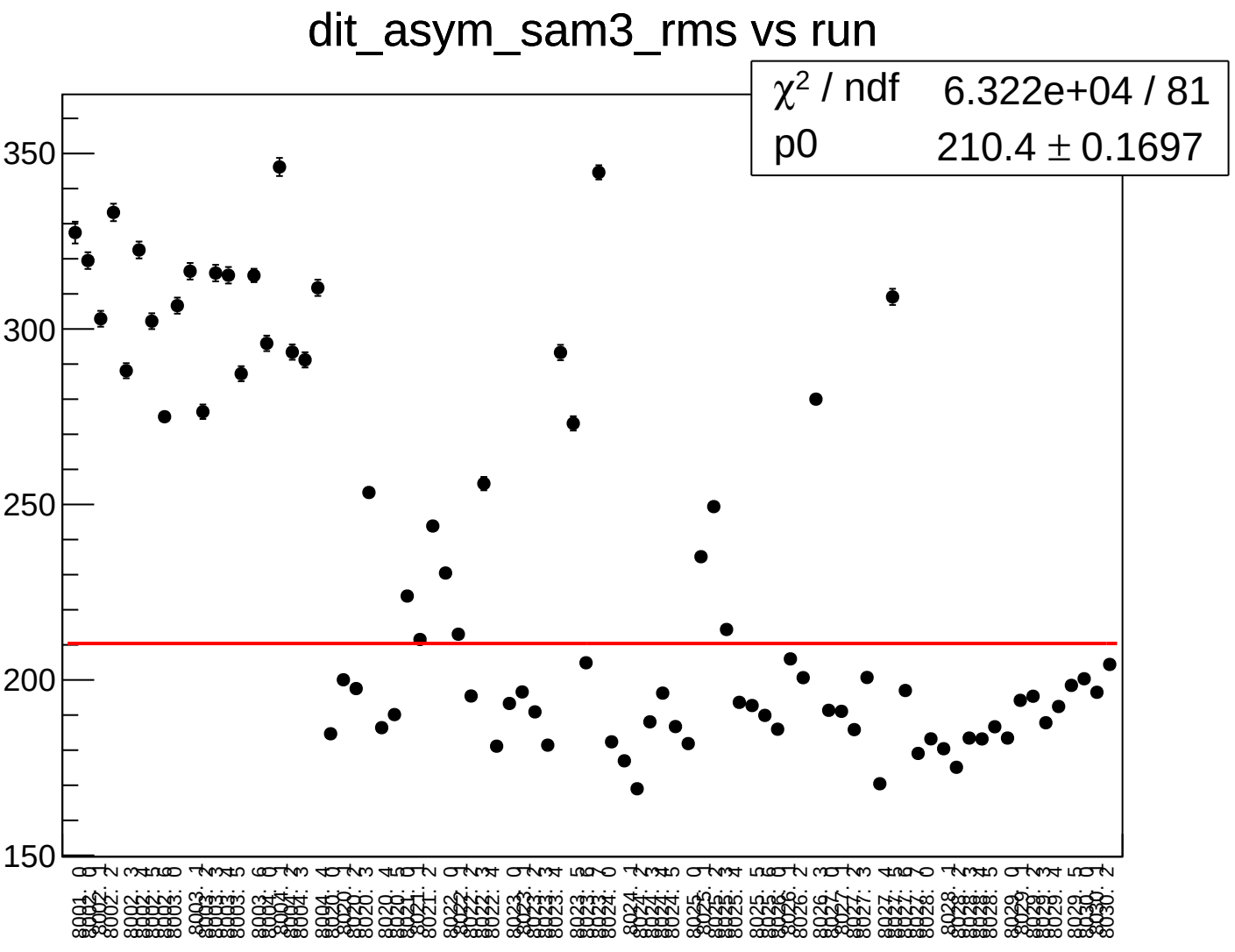

asym_sam2_mean vs run
×10^3
χ² / ndf 69.6 / 81
p0 −113.3 ± 4524
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 535.7
Std Dev 484.7
2
1
0
−1
−2

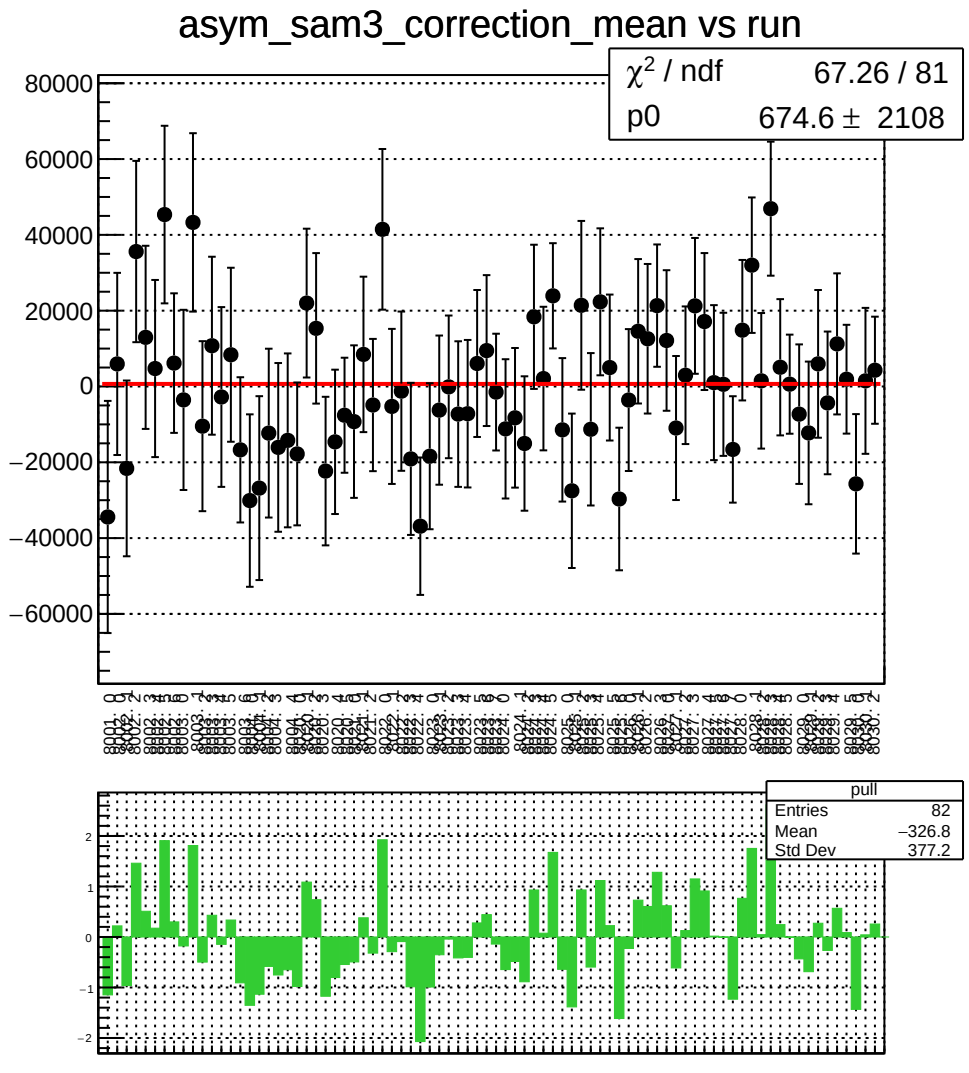

pull1D
Entries 82
Mean −0.004611
Std Dev 0.9213
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

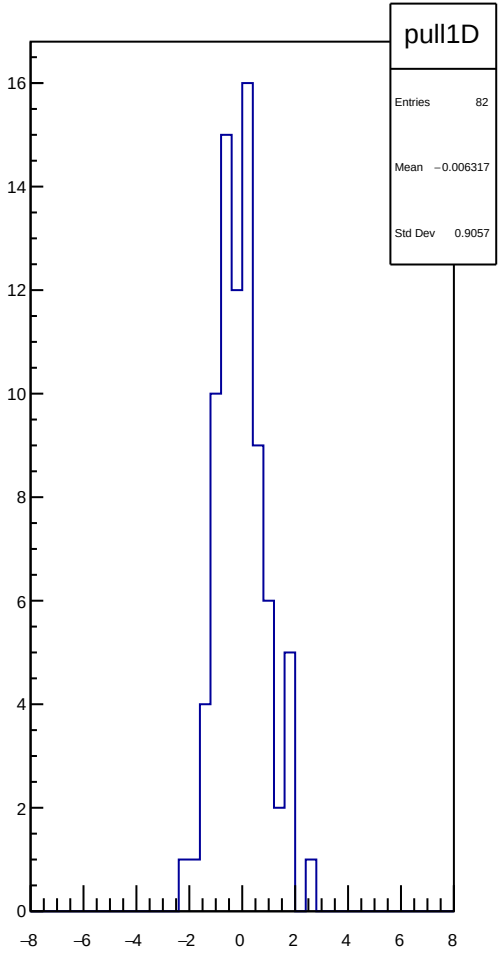

asym_sam2_rms vs run
χ^2 / ndf 1.016e+04 / 81
p0 4034 ± 3.199
5000
4800
4600
4400
4200
4000
3800
3600
3400

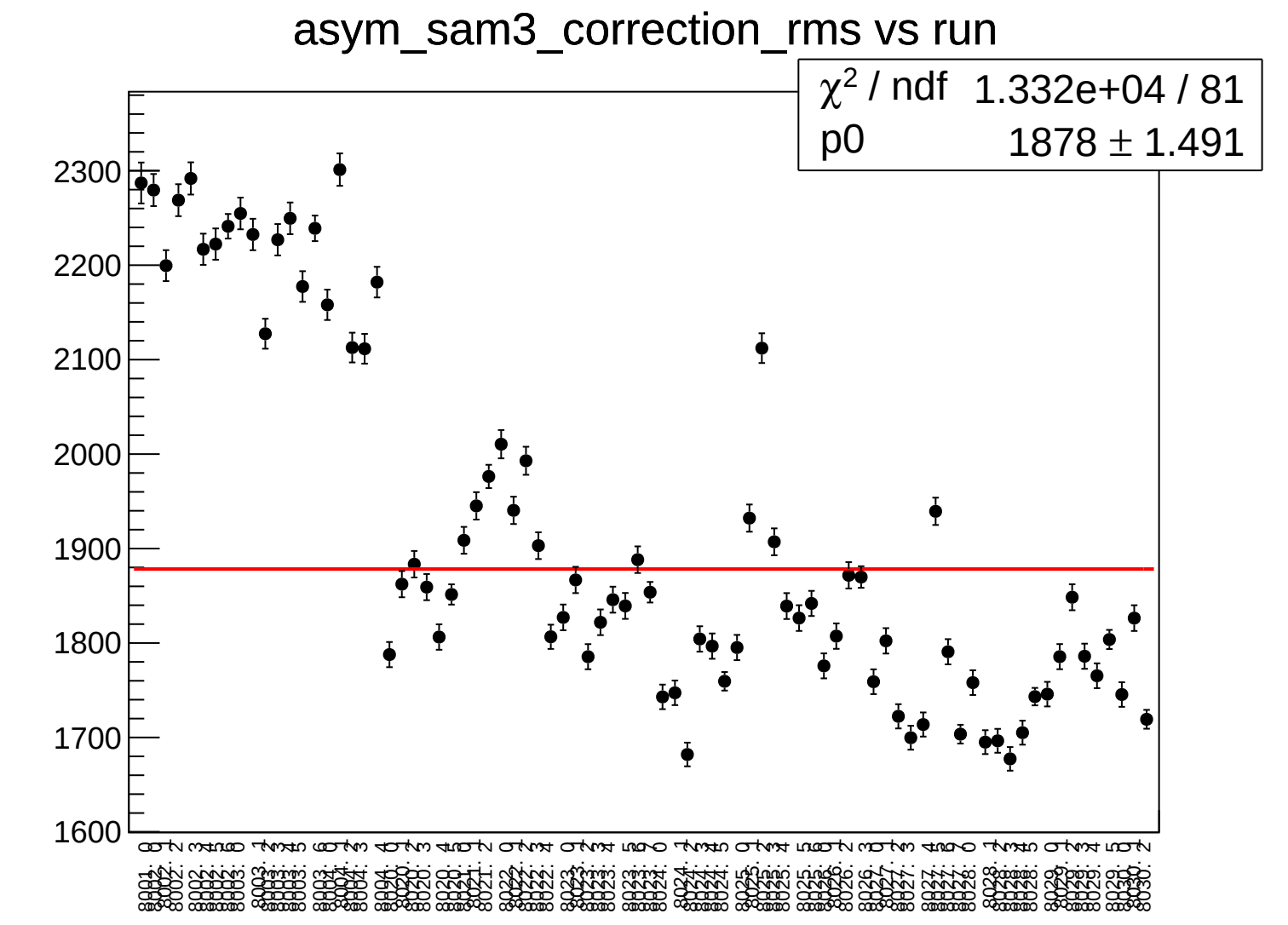

dit_asym_sam3_mean vs run
χ^2 / ndf 67.81 / 81
p0 149.5 ± 239.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 82
Mean 414.7
Std Dev 353.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

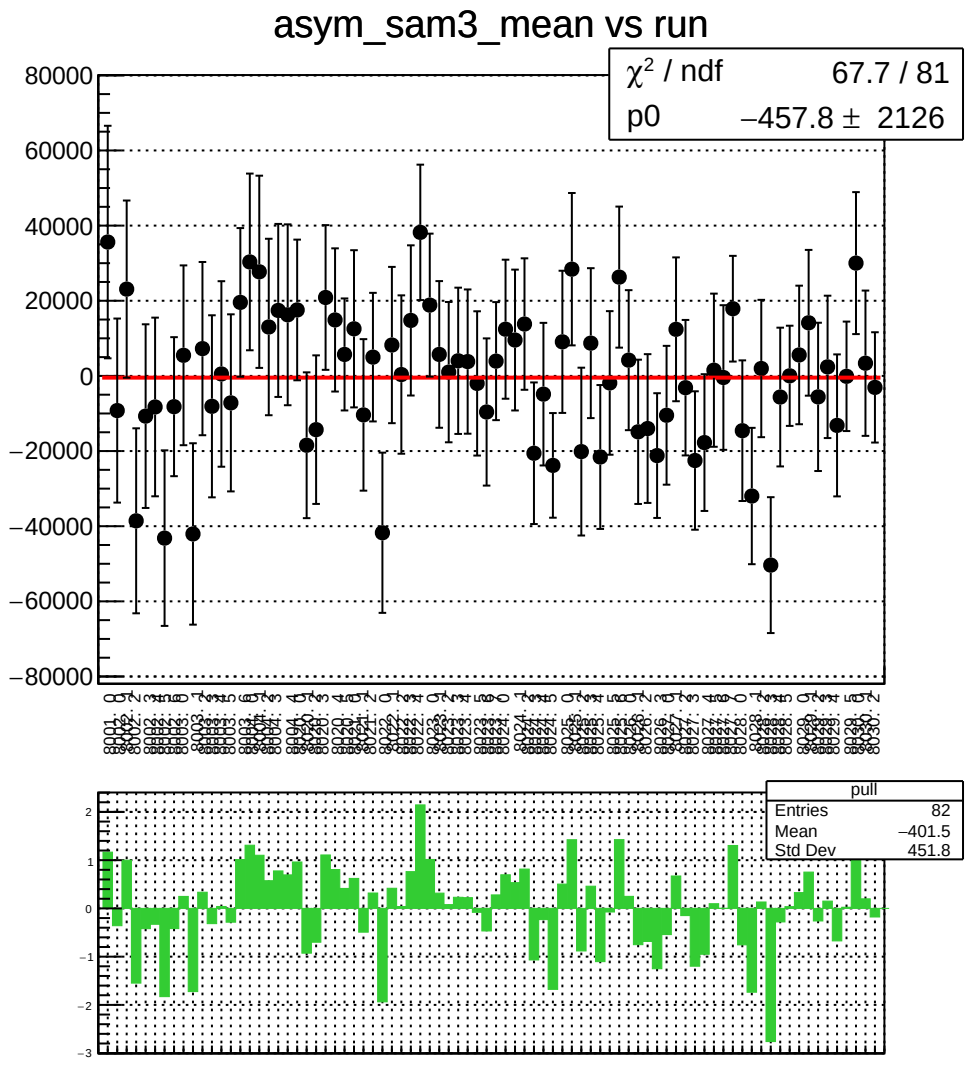

pull1D
Entries 82
Mean 0.004937
Std Dev 0.9094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

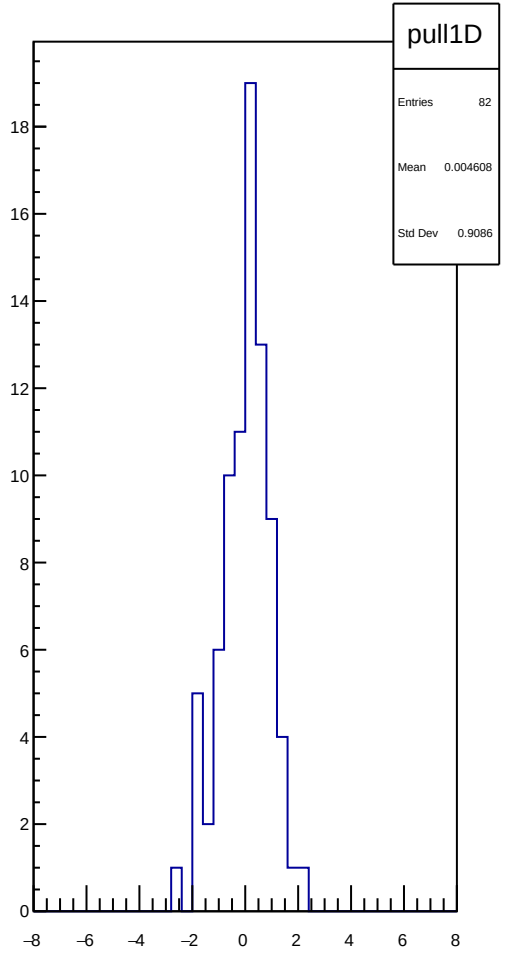

dit_asym_sam3_rms vs run
χ² / ndf 6.322e+04 / 81
p0 210.4 ± 0.1697
350
300
250
200
150

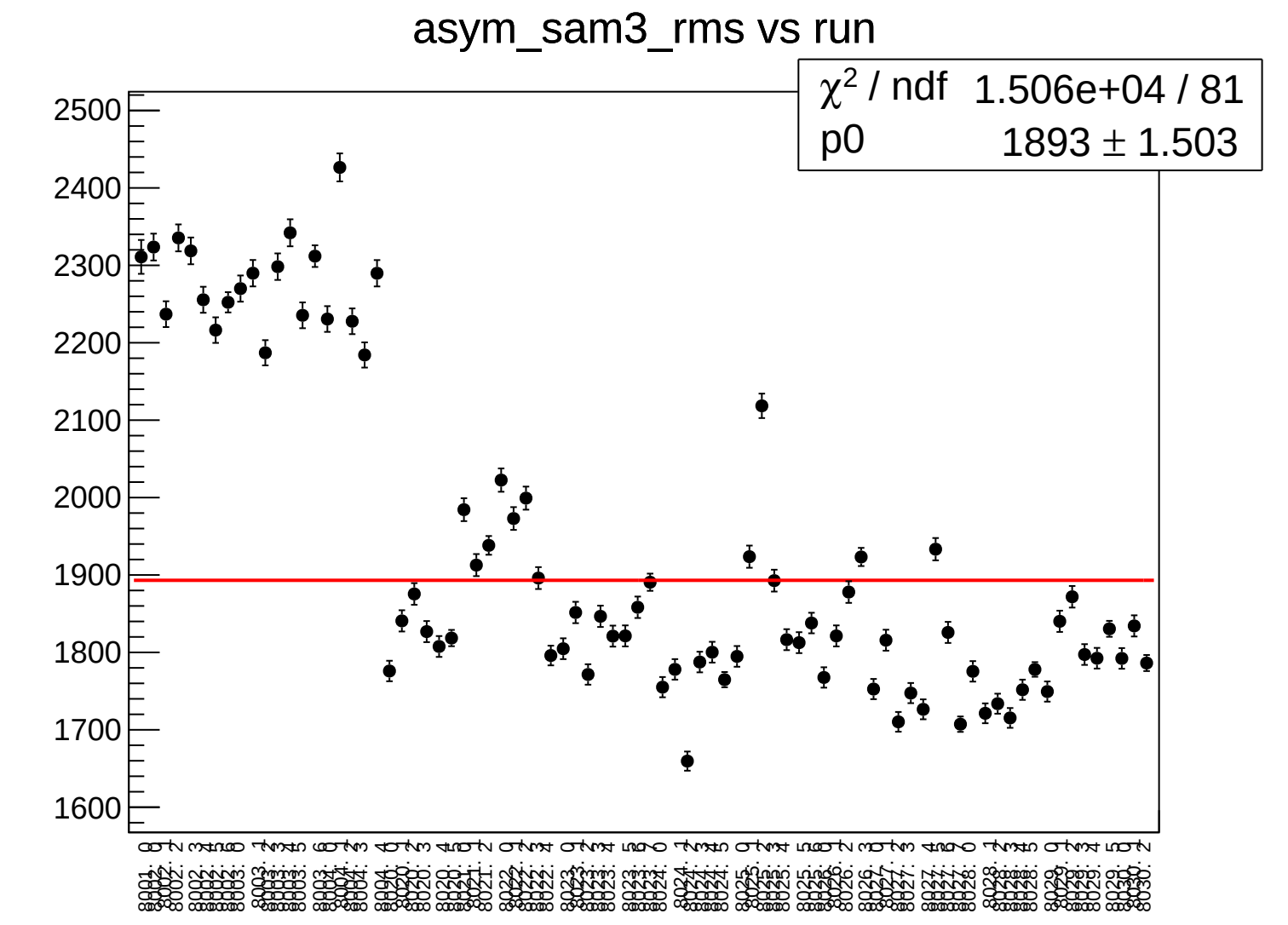

asym_sam3_correction_mean vs run
χ² / ndf 67.26 / 81
p0 674.6 ± 2108
pull
Entries 82
Mean −326.8
Std Dev 377.2

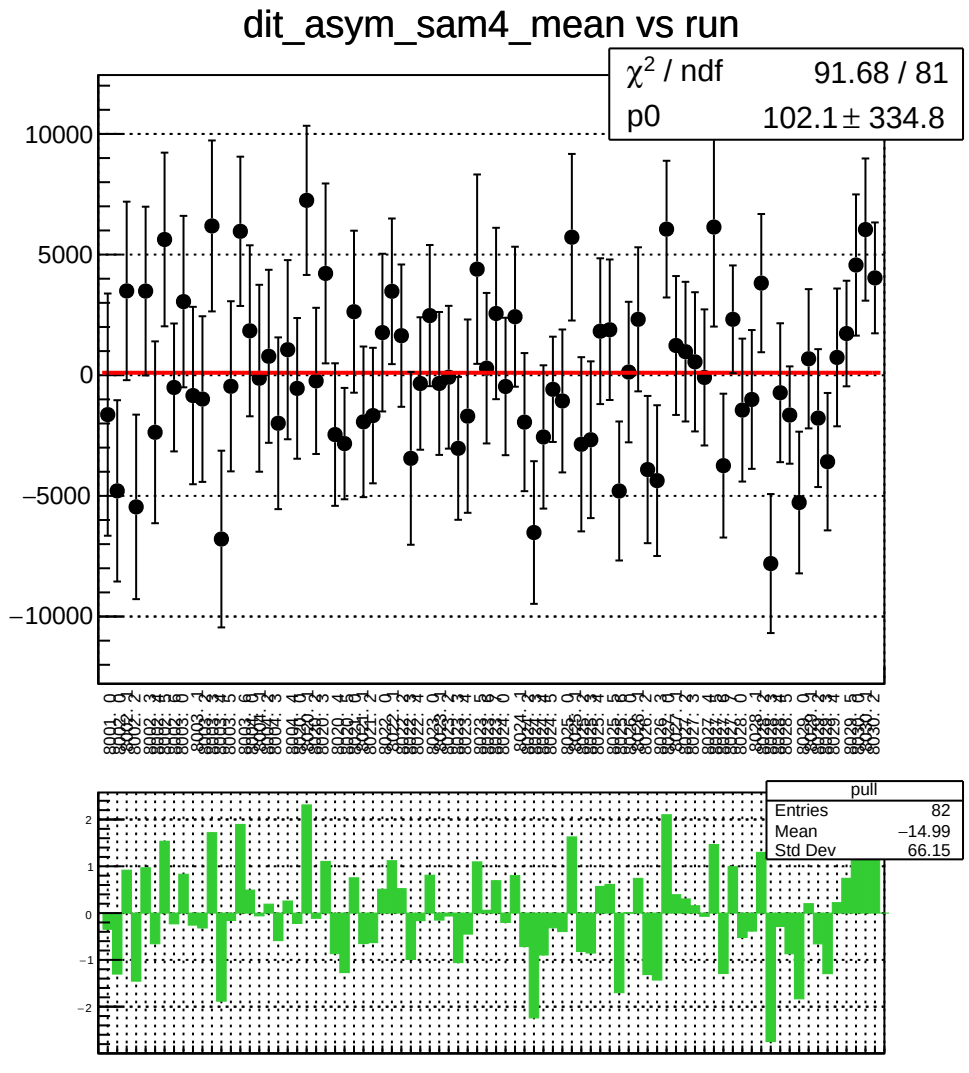

pull1D
Entries 82
Mean −0.006317
Std Dev 0.9057

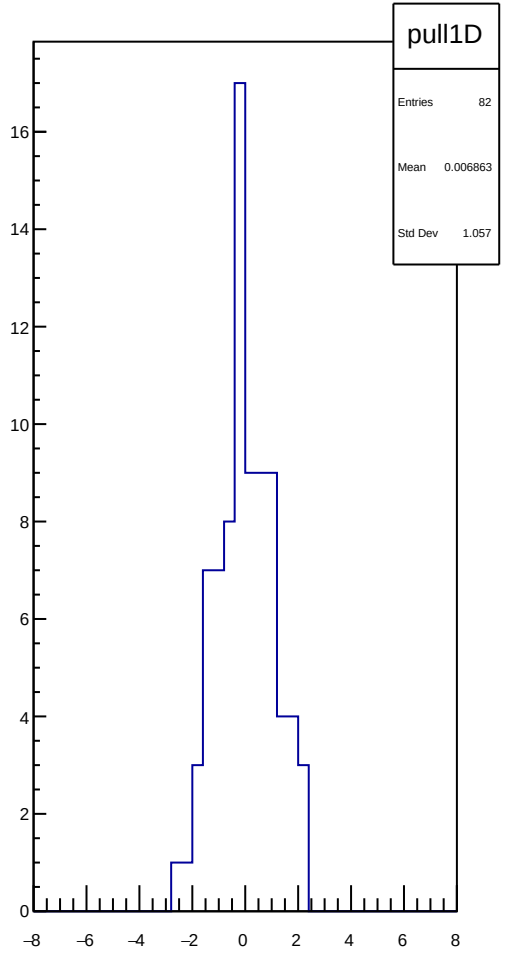

asym_sam3_correction_rms vs run
χ² / ndf 1.332e+04 / 81
p0 1878 ± 1.491
2300
2200
2100
2000
1900
1800
1700
1600

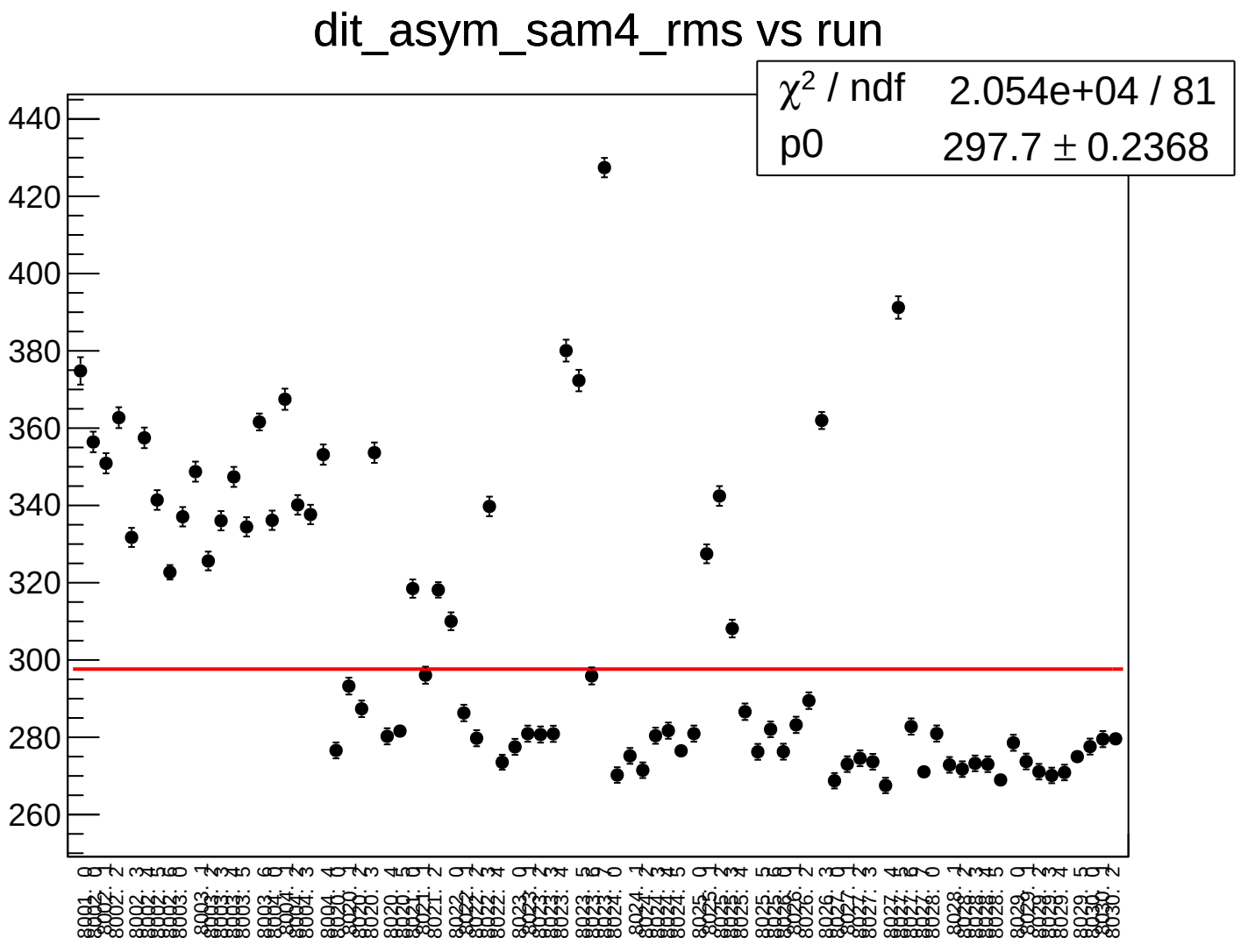

asym_sam3_mean vs run
χ² / ndf 67.7 / 81
p0 −457.8 ± 2126
pull
Entries 82
Mean −401.5
Std Dev 451.8

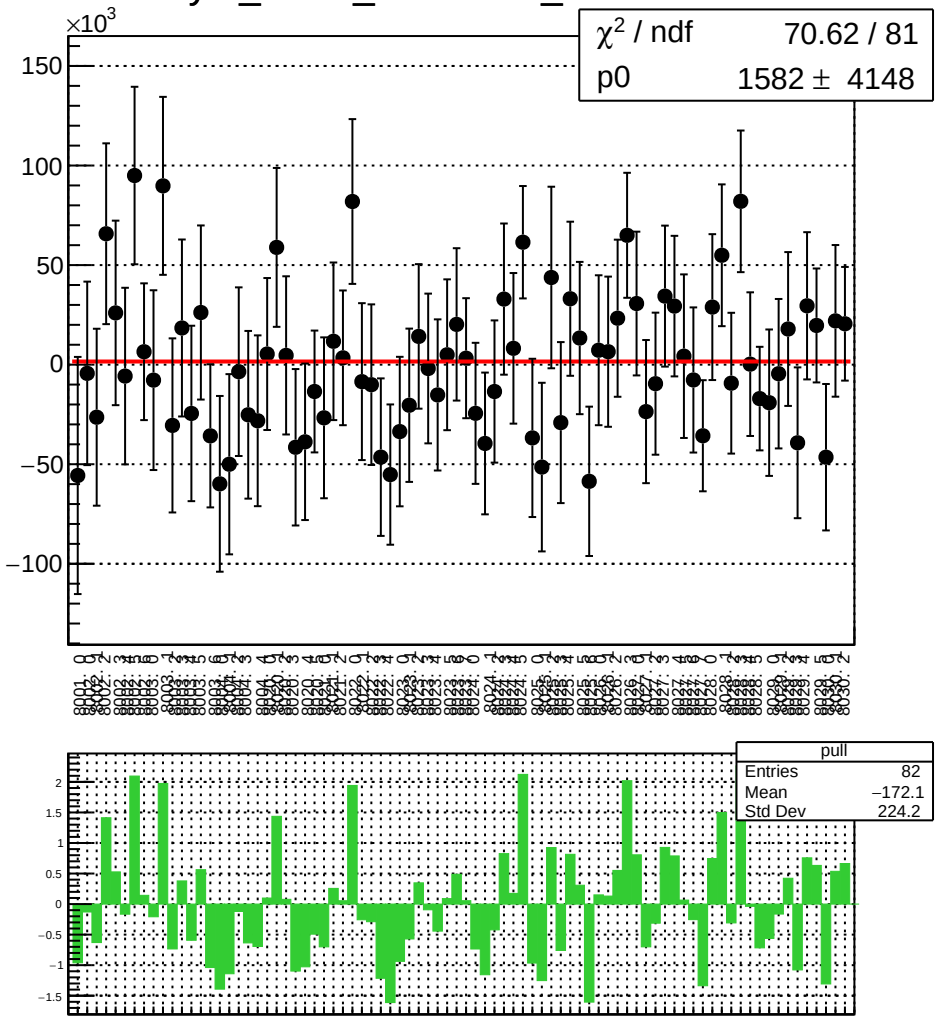

pull1D
Entries 82
Mean 0.004608
Std Dev 0.9086

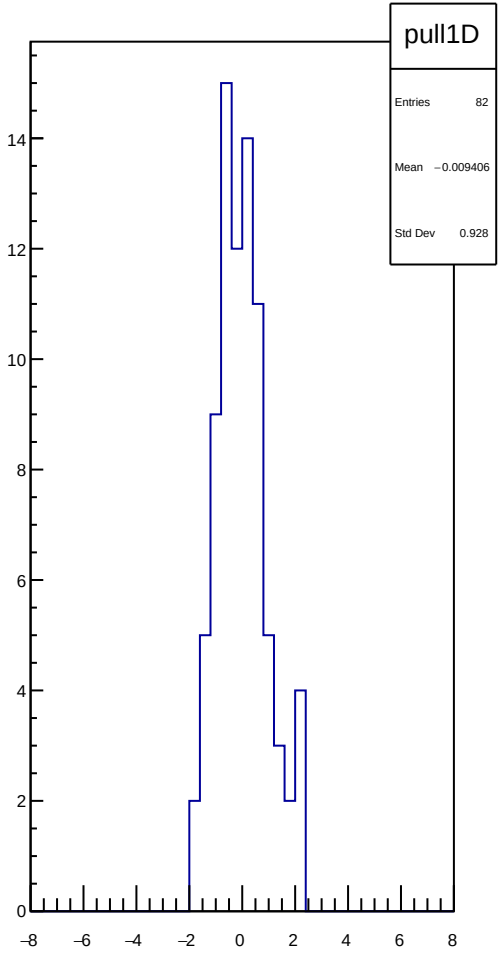

asym_sam3_rms vs run
χ² / ndf 1.506e+04 / 81
p0 1893 ± 1.503
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

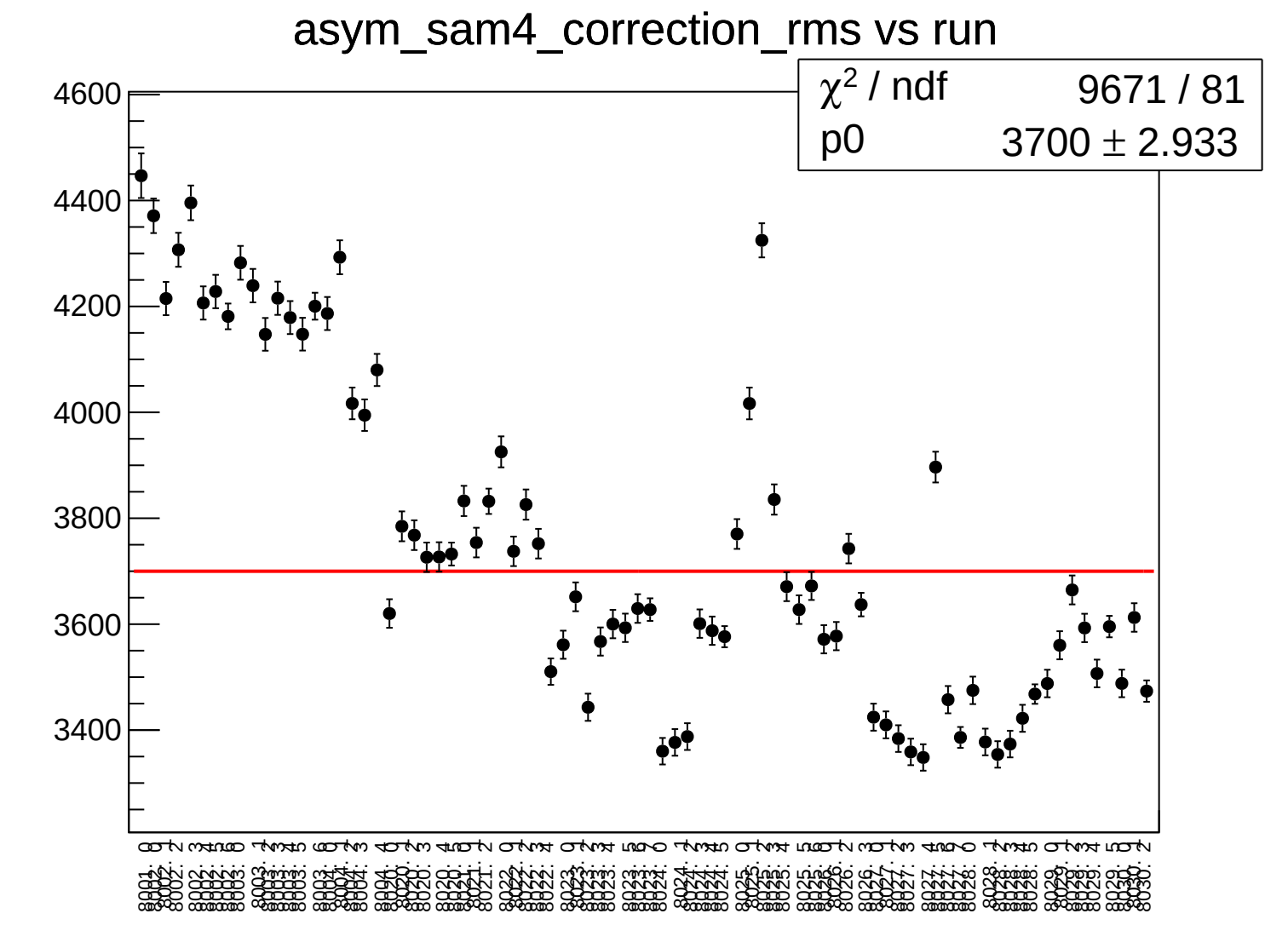

dit_asym_sam4_mean vs run
χ² / ndf 91.68 / 81
p0 102.1 ± 334.8
10000
5000
0
−5000
−10000
pull
Entries 82
Mean −14.99
Std Dev 66.15
2
1
0
−1
−2

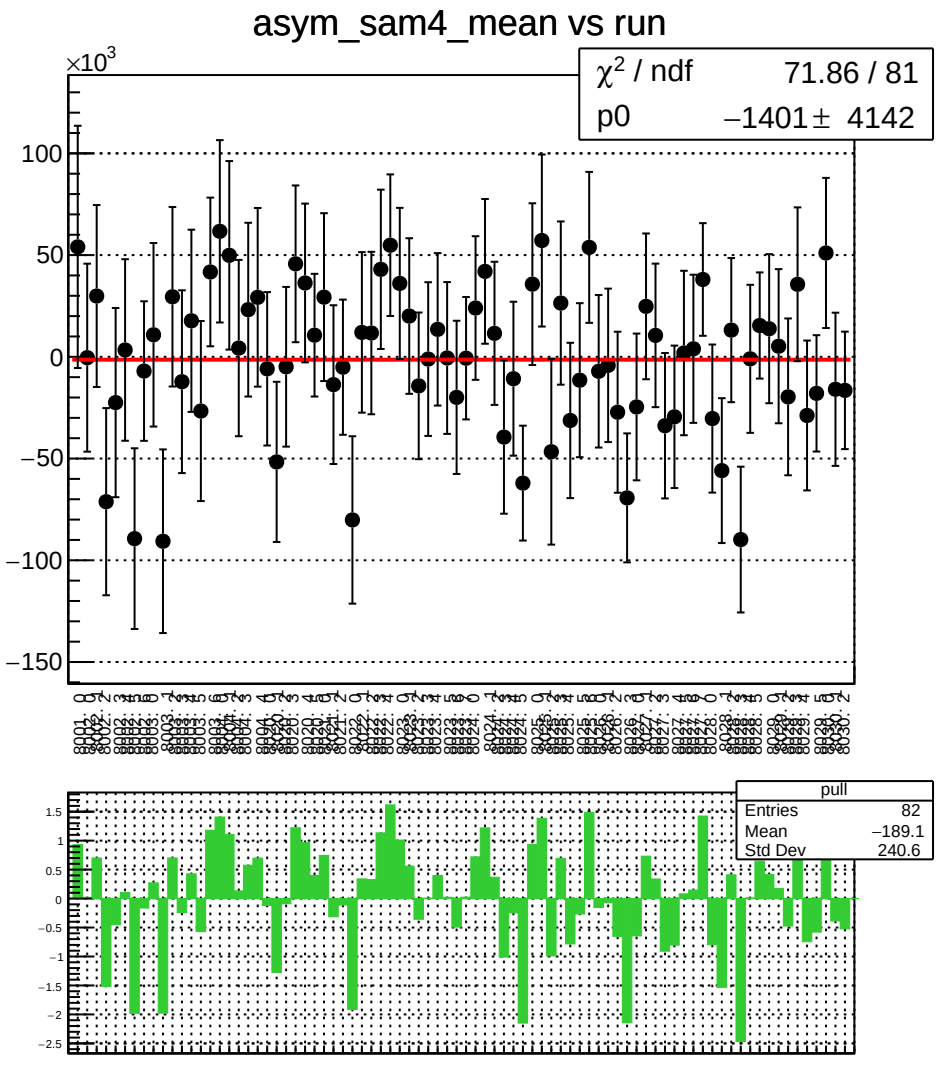

pull1D
Entries 82
Mean 0.006863
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

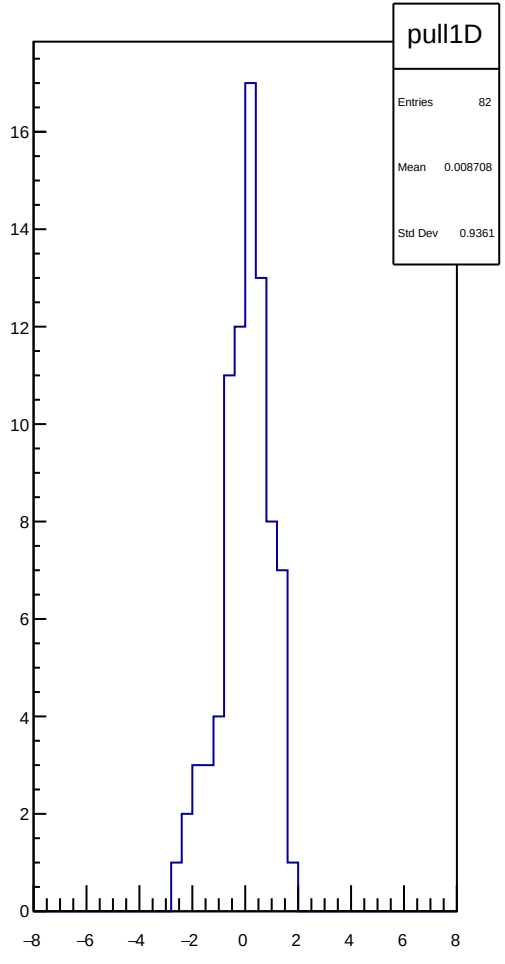

dit_asym_sam4_rms vs run
χ² / ndf 2.054e+04 / 81
p0 297.7 ± 0.2368
440
420
400
380
360
340
320
300
280
260

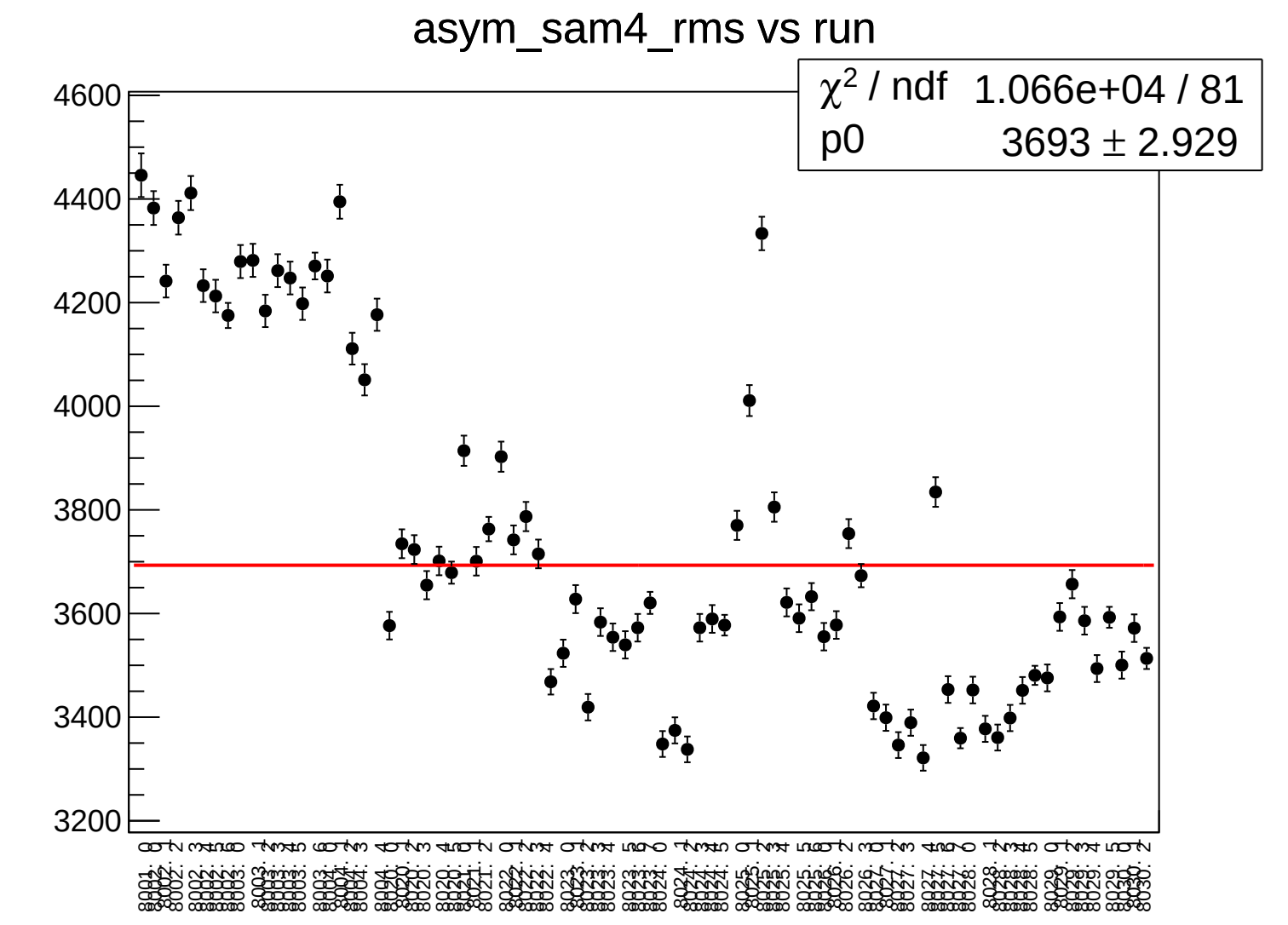

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 70.62 / 81
p0 1582 ± 4148
150
100
50
0
−50
−100
pull
Entries 82
Mean −172.1
Std Dev 224.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

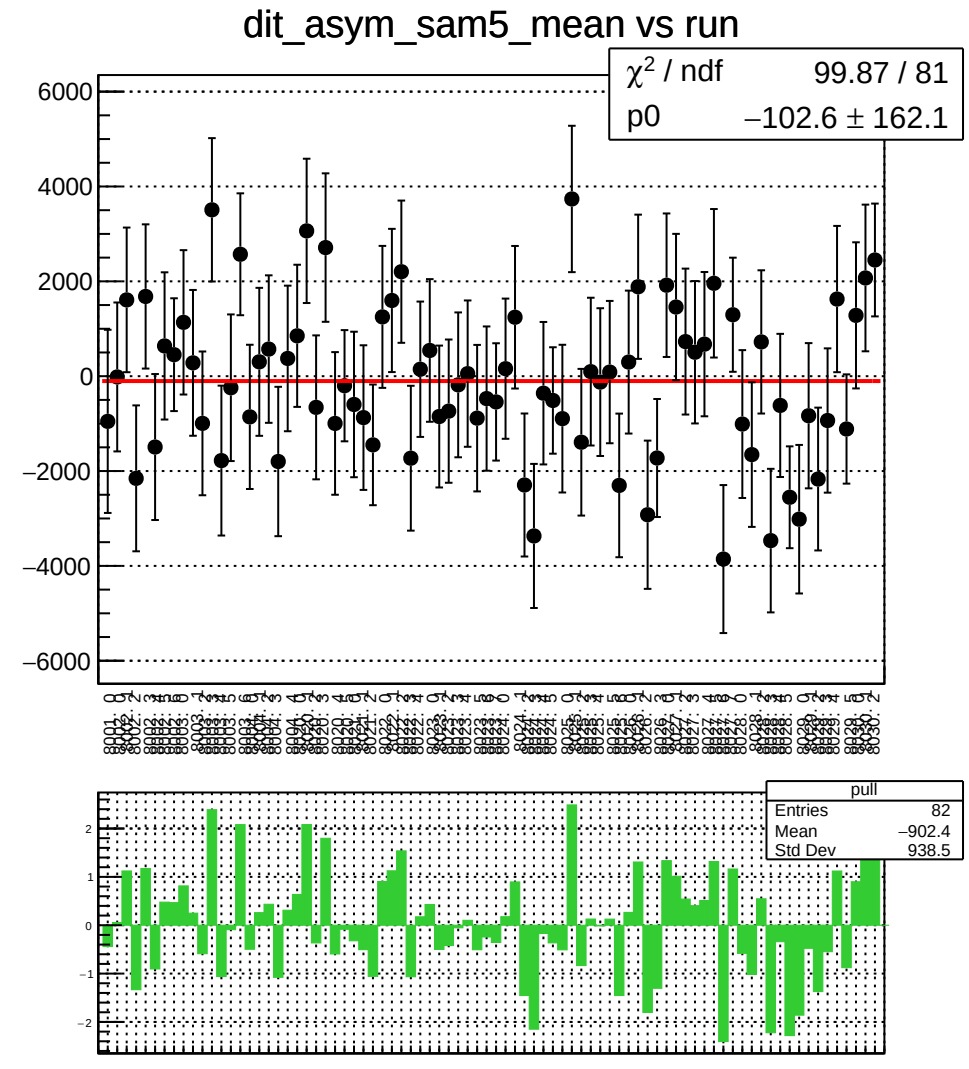

pull1D
Entries 82
Mean −0.009406
Std Dev 0.928
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

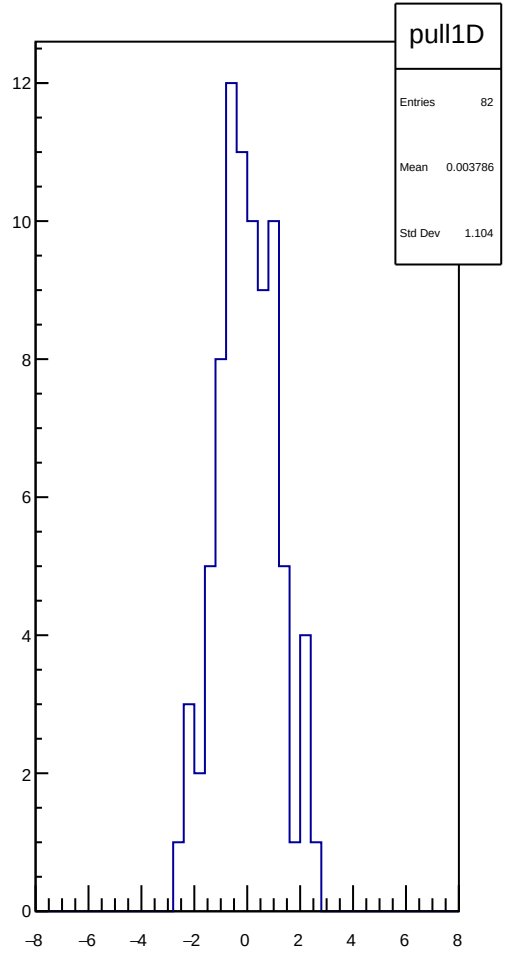

asym_sam4_correction_rms vs run
χ² / ndf 9671 / 81
p0 3700 ± 2.933
4600
4400
4200
4000
3800
3600
3400

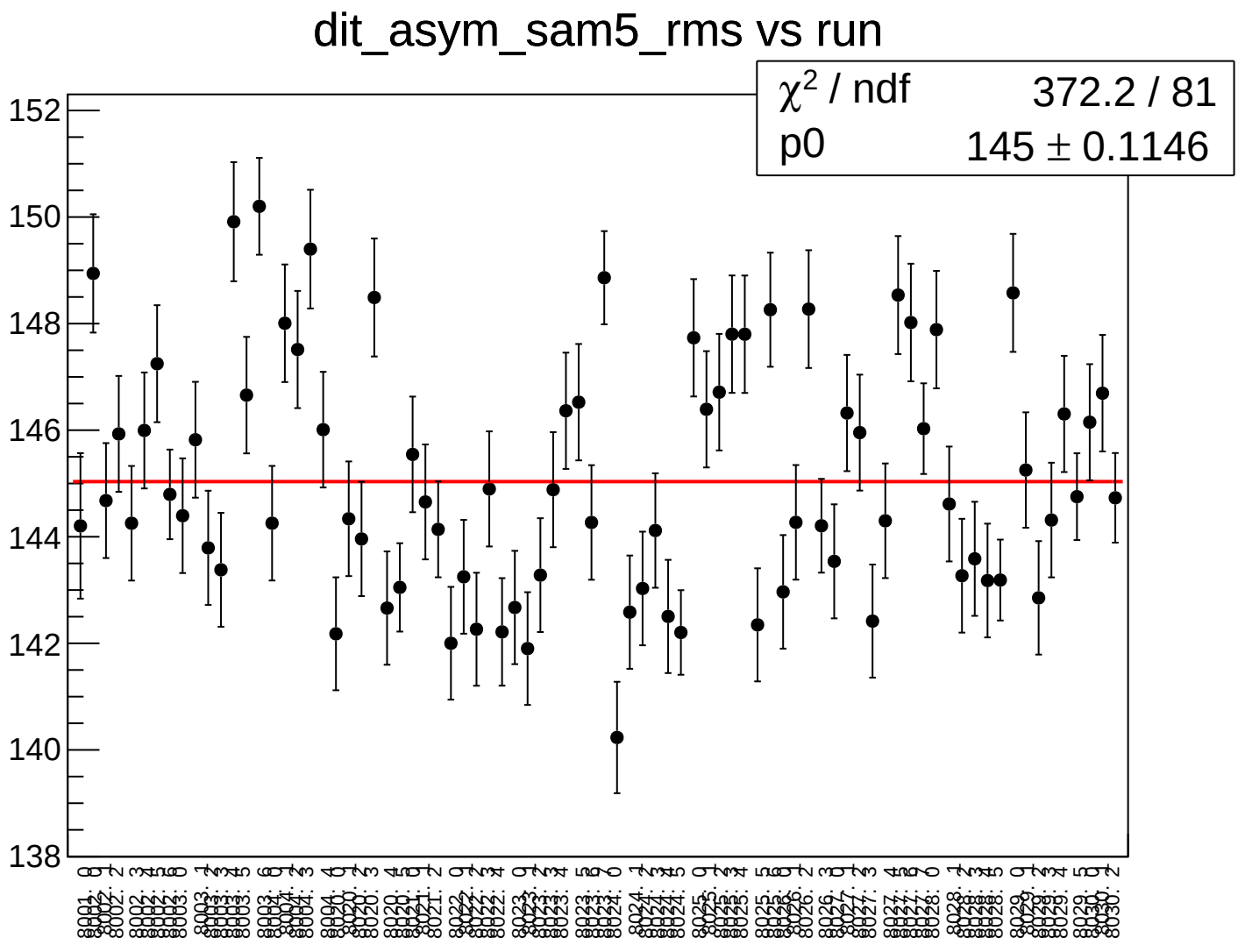

asym_sam4_mean vs run
×10^3
χ² / ndf 71.86 / 81
p0 −1401 ± 4142
100
50
0
−50
−100
−150
pull
Entries 82
Mean −189.1
Std Dev 240.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

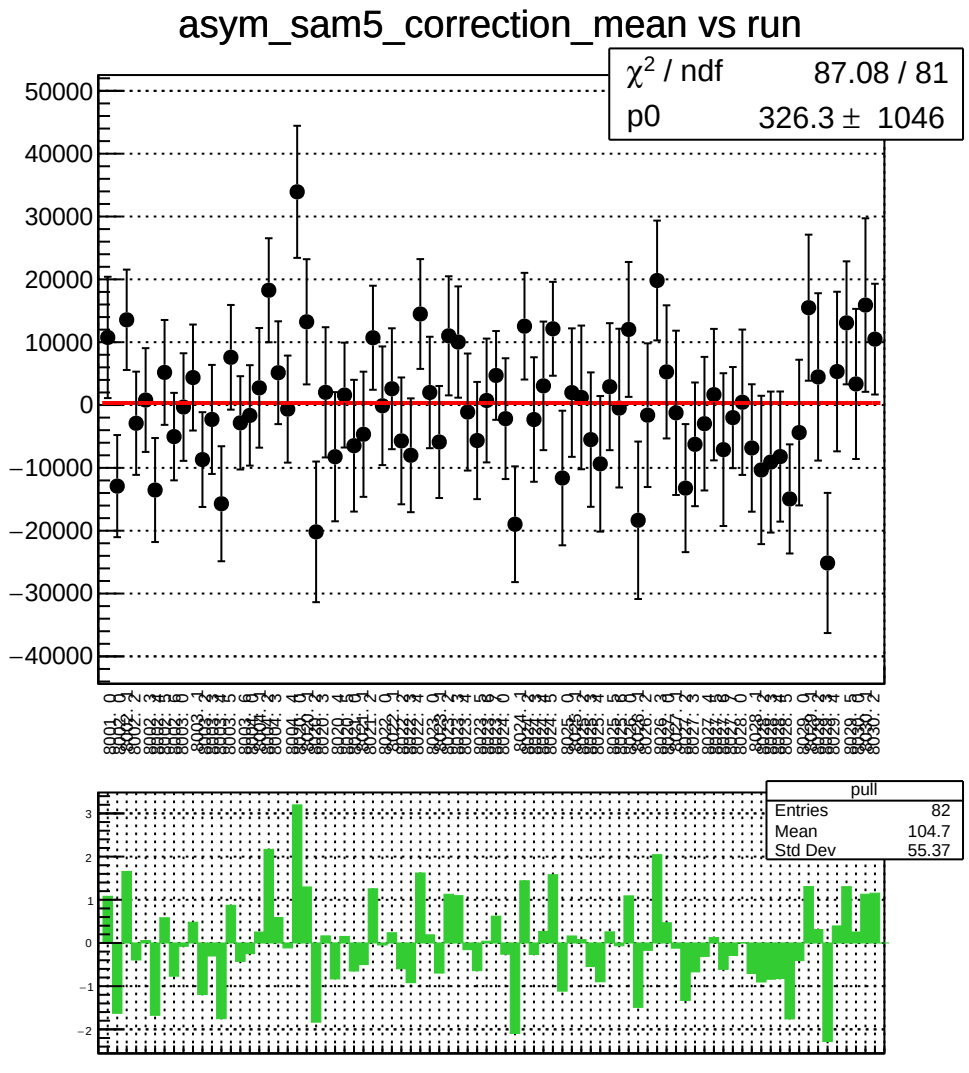

pull1D
Entries 82
Mean 0.008708
Std Dev 0.9361
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

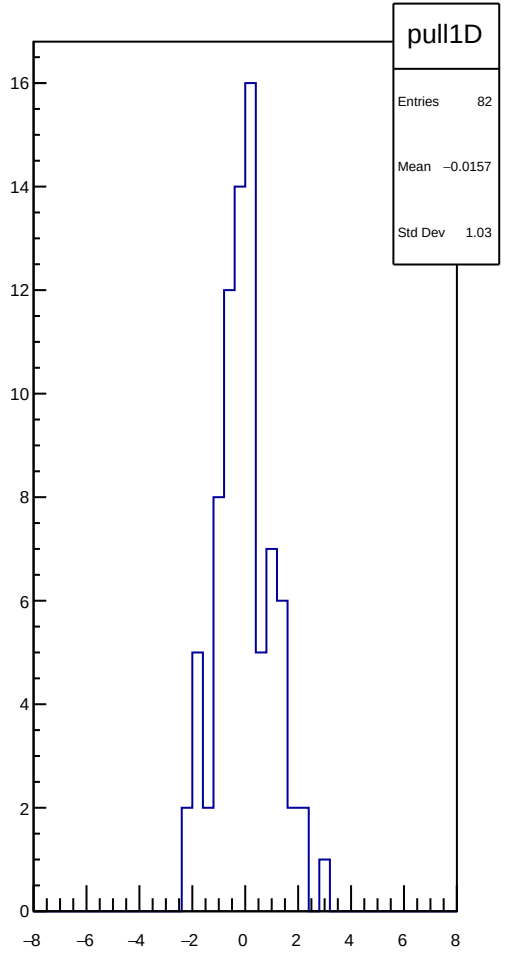

asym_sam4_rms vs run
χ² / ndf 1.066e+04 / 81
p0 3693 ± 2.929
4600
4400
4200
4000
3800
3600
3400
3200

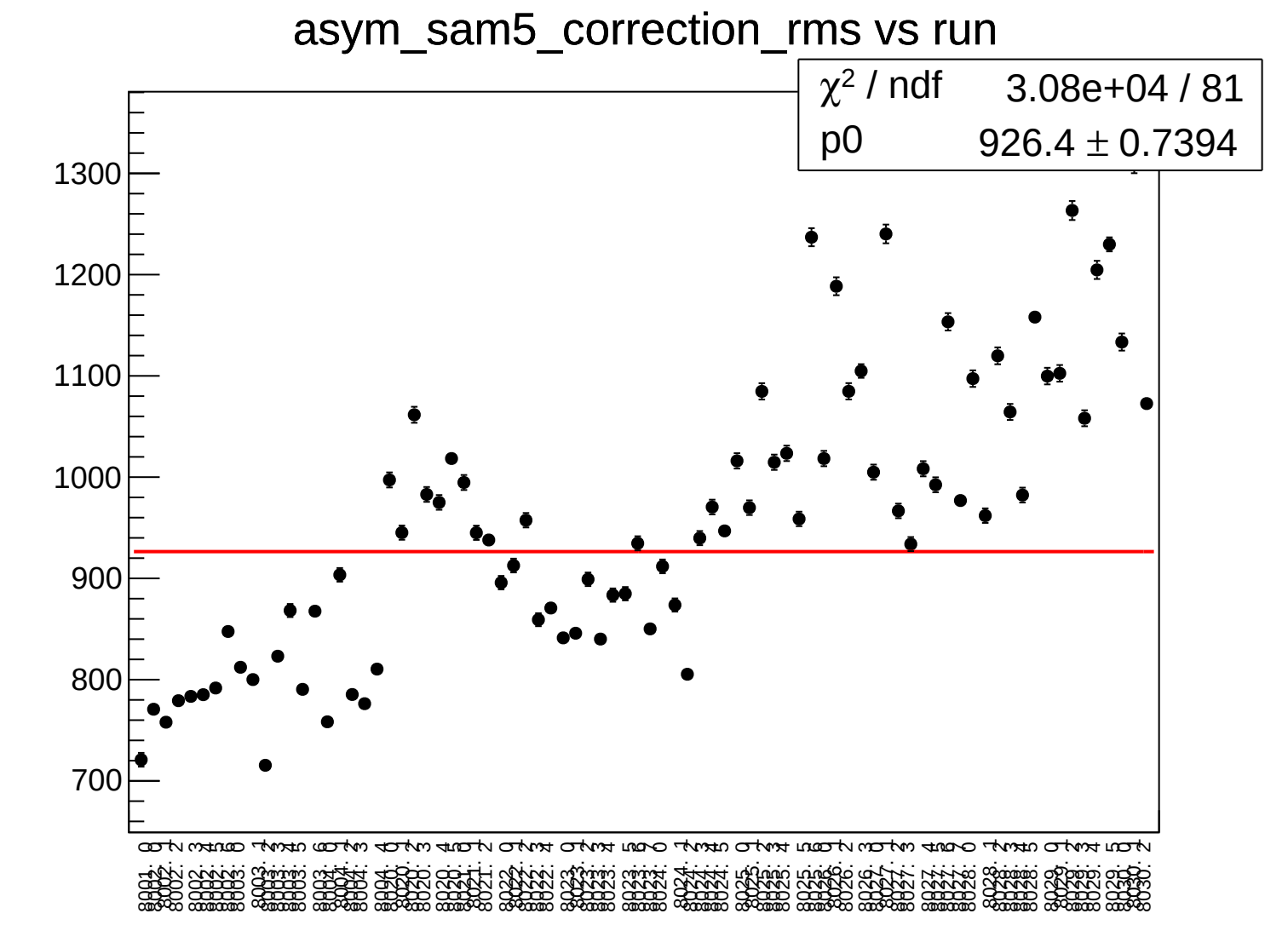

dit_asym_sam5_mean vs run
χ^2 / ndf 99.87 / 81
p0 −102.6 ± 162.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −902.4
Std Dev 938.5
2
1
0
−1
−2

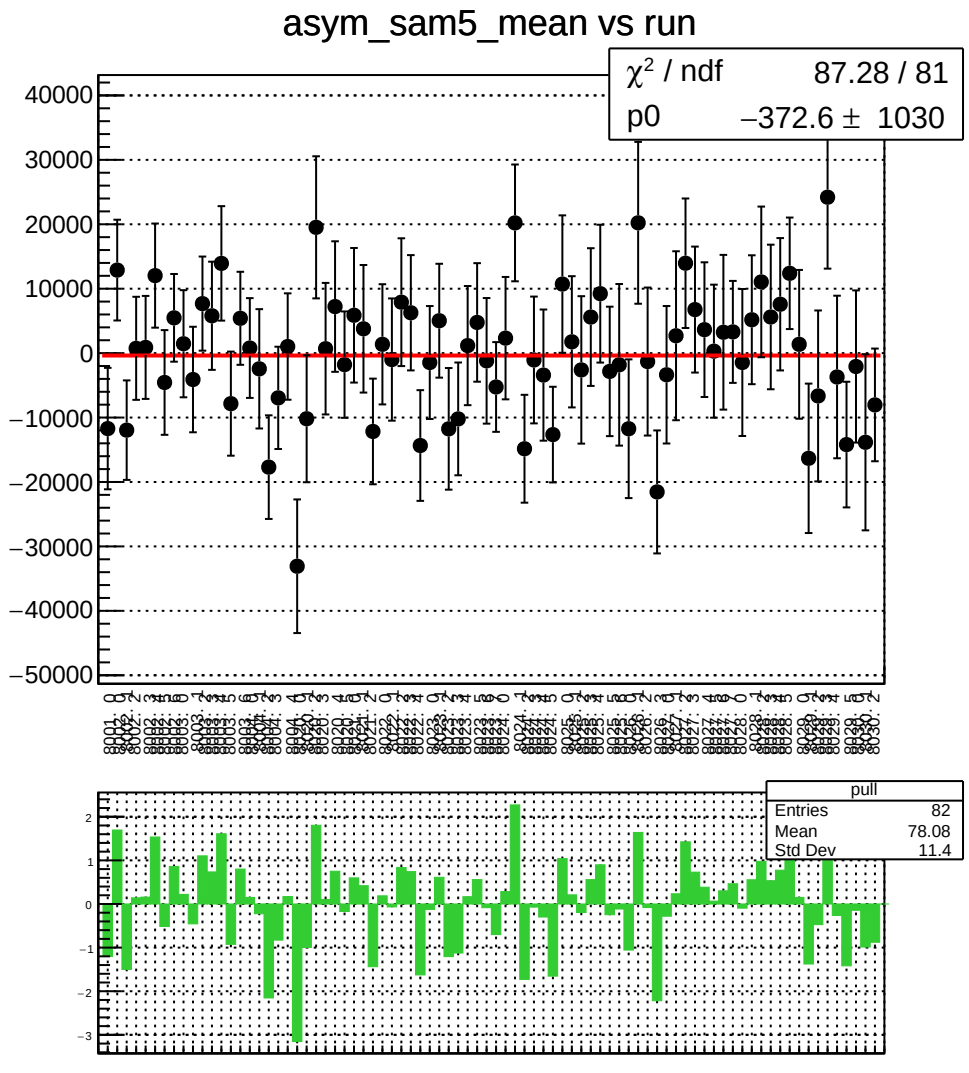

pull1D
Entries 82
Mean 0.003786
Std Dev 1.104
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

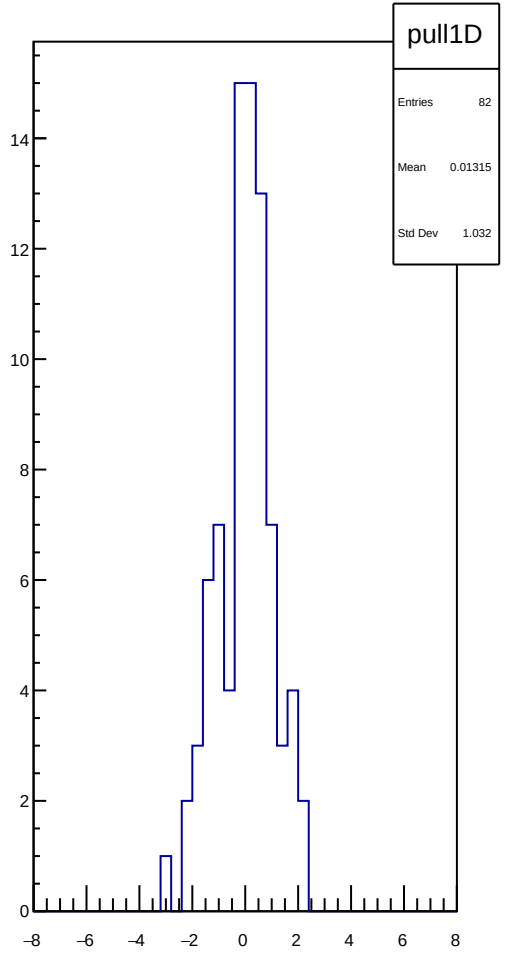

dit_asym_sam5_rms vs run
χ² / ndf 372.2 / 81
p0 145 ± 0.1146
152
150
148
146
144
142
140
138

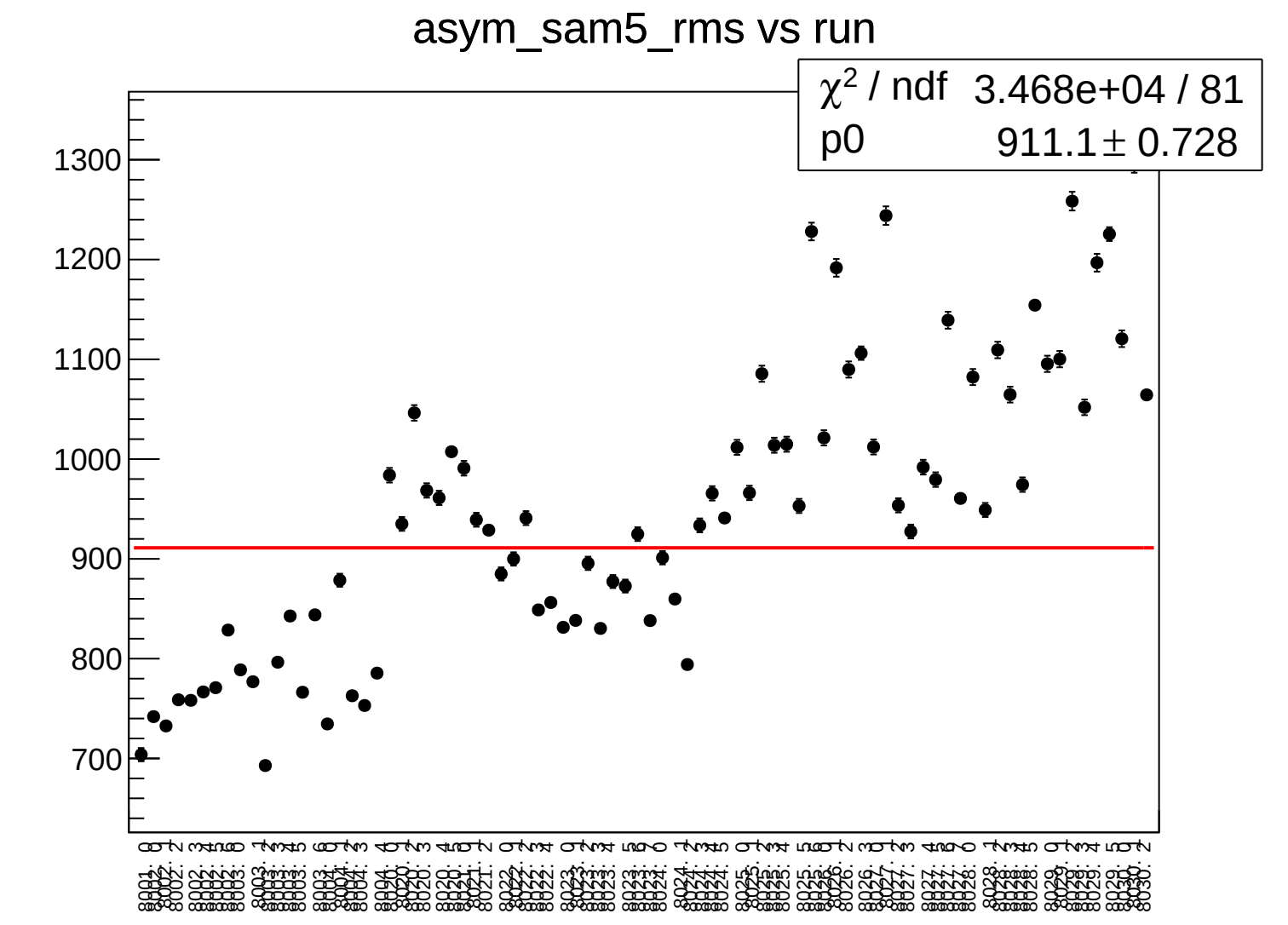

asym_sam5_correction_mean vs run
χ² / ndf 87.08 / 81
p0 326.3 ± 1046
pull
Entries 82
Mean 104.7
Std Dev 55.37

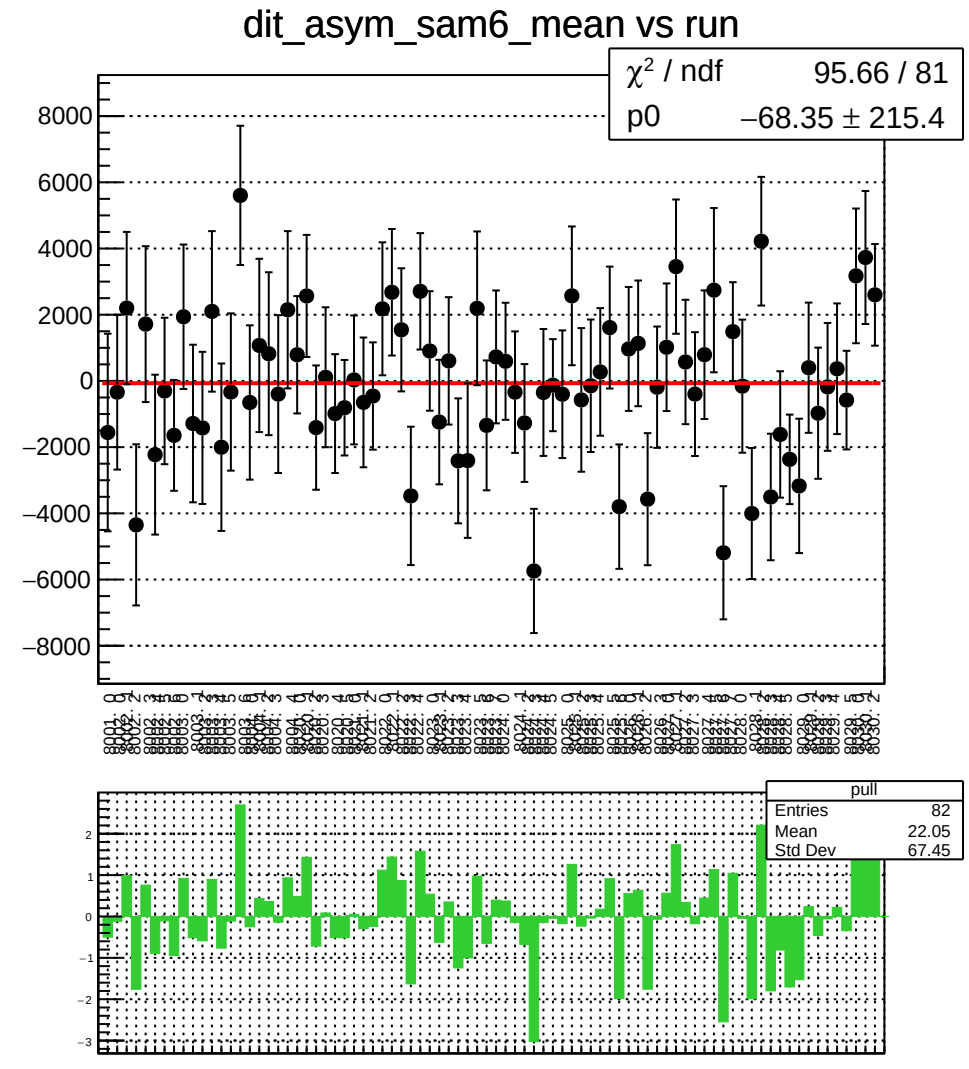

pull1D
Entries 82
Mean −0.0157
Std Dev 1.03

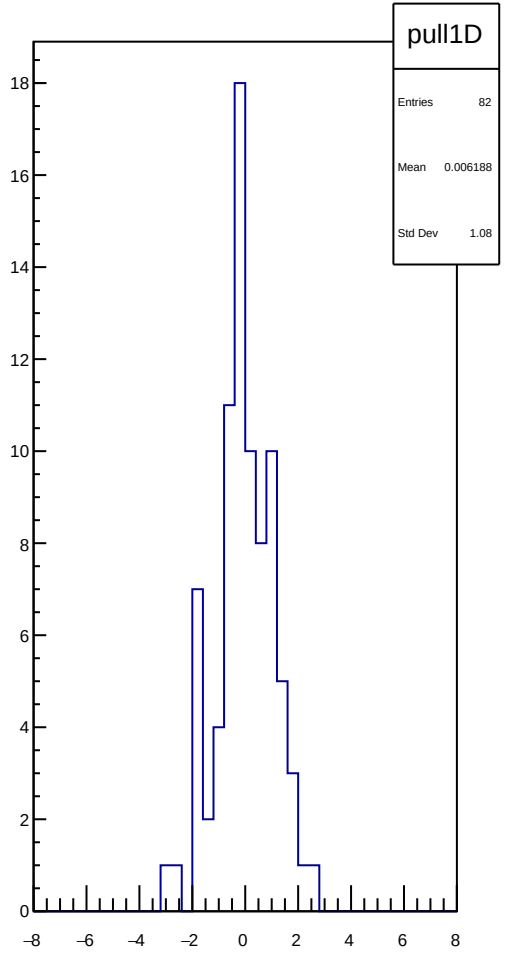

asym_sam5_correction_rms vs run
χ² / ndf 3.08e+04 / 81
p0 926.4 ± 0.7394
1300
1200
1100
1000
900
800
700

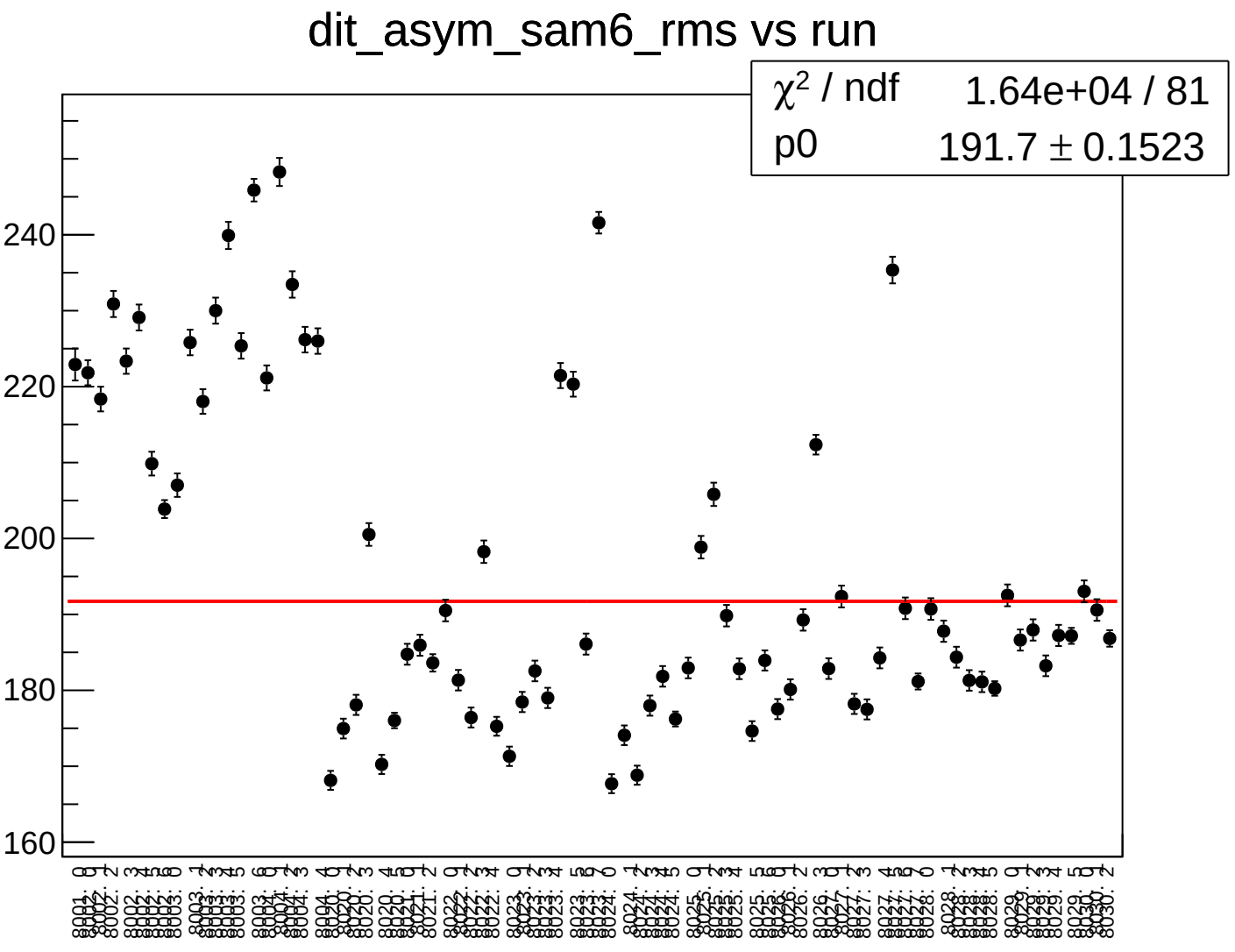

asym_sam5_mean vs run
χ² / ndf 87.28 / 81
p0 −372.6 ± 1030
pull
Entries 82
Mean 78.08
Std Dev 11.4

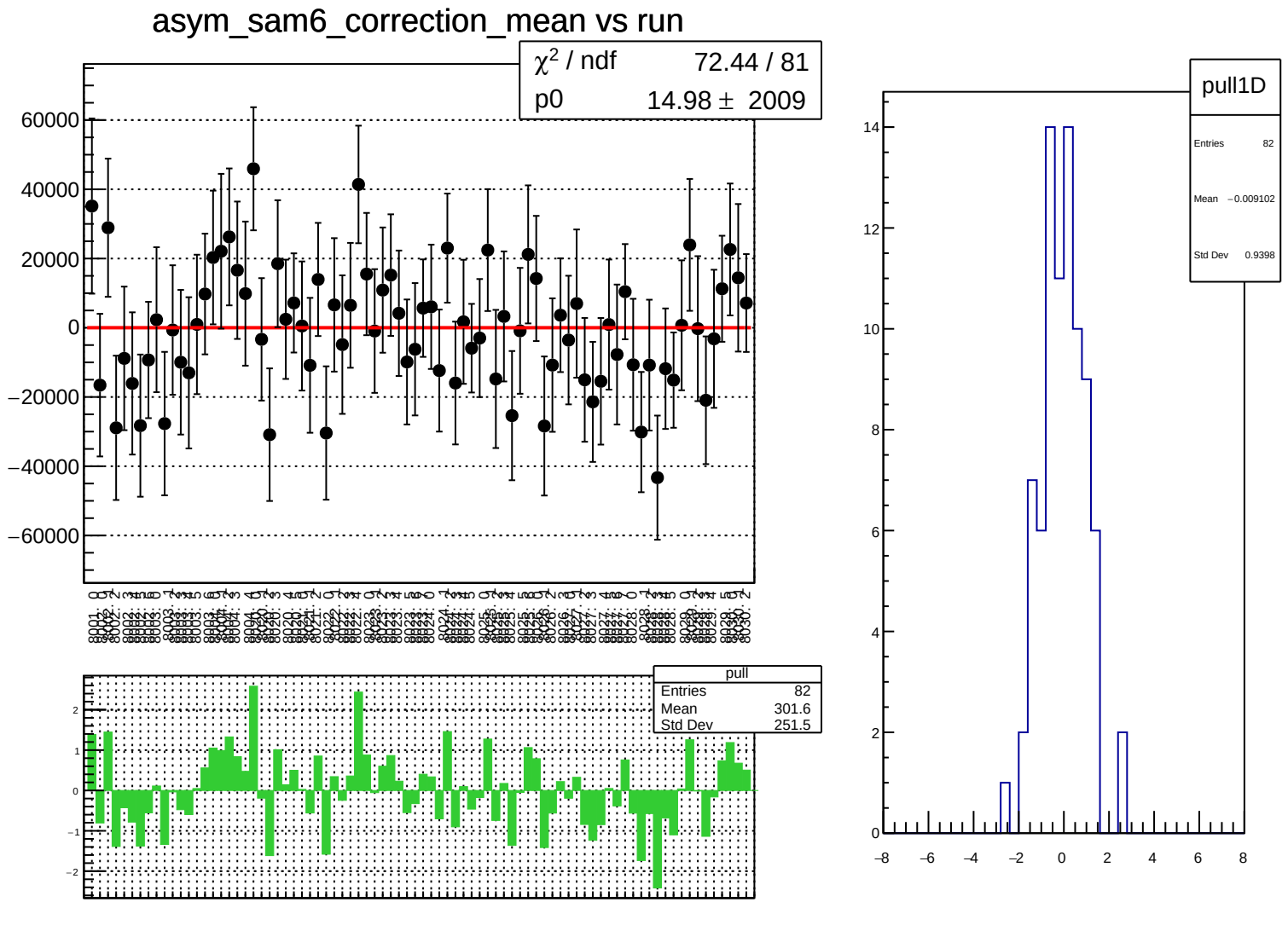

pull1D
Entries 82
Mean 0.01315
Std Dev 1.032

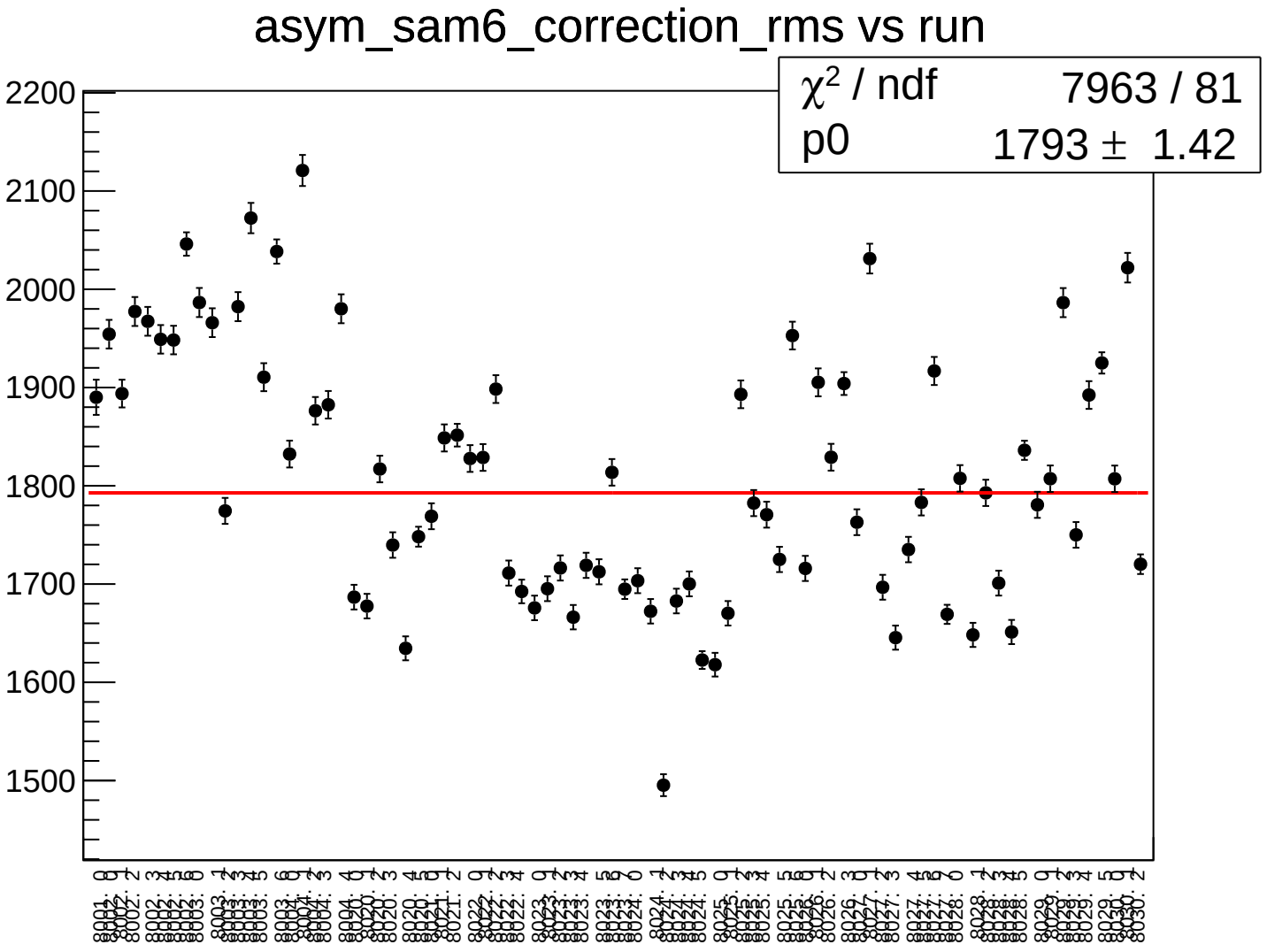

asym_sam5_rms vs run
χ² / ndf 3.468e+04 / 81
p0 911.1 ± 0.728
1300
1200
1100
1000
900
800
700

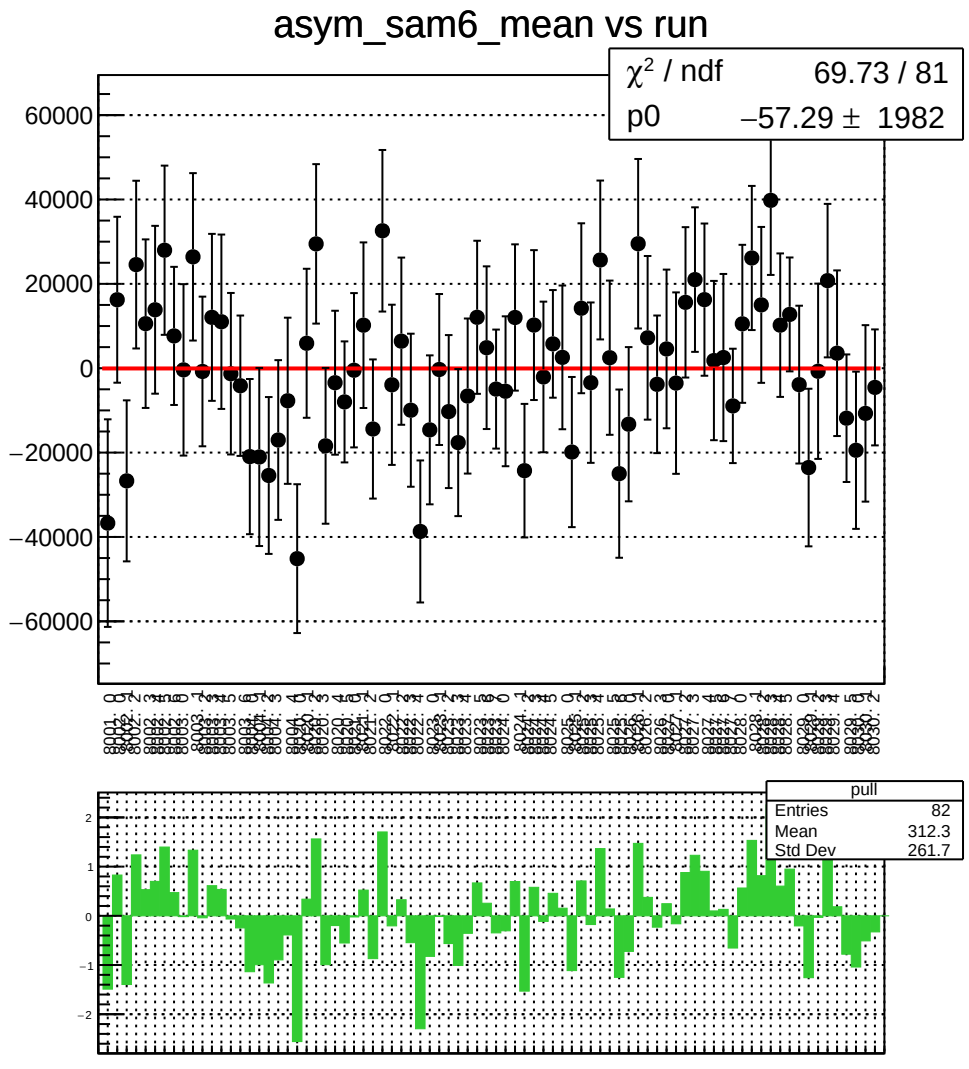

dit_asym_sam6_mean vs run
χ² / ndf 95.66 / 81
p0 −68.35 ± 215.4
pull
Entries 82
Mean 22.05
Std Dev 67.45

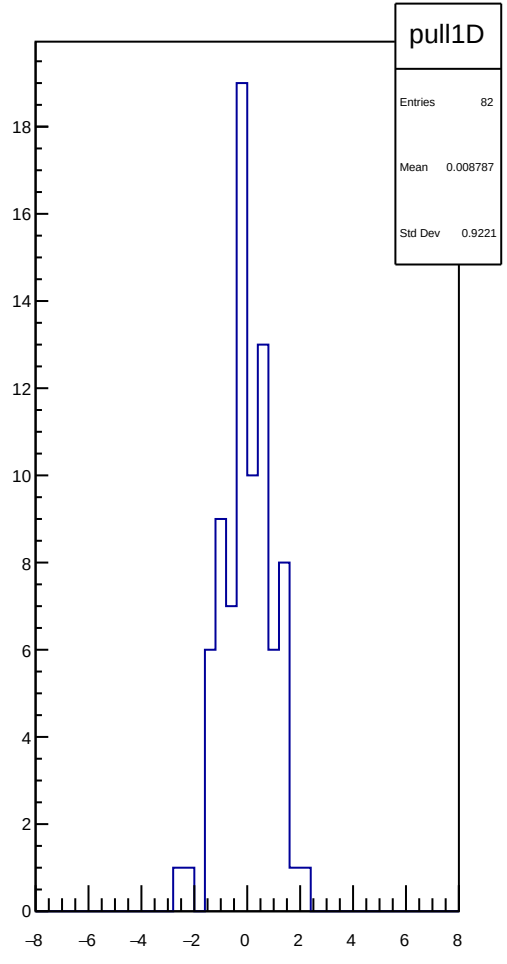

pull1D
Entries 82
Mean 0.006188
Std Dev 1.08

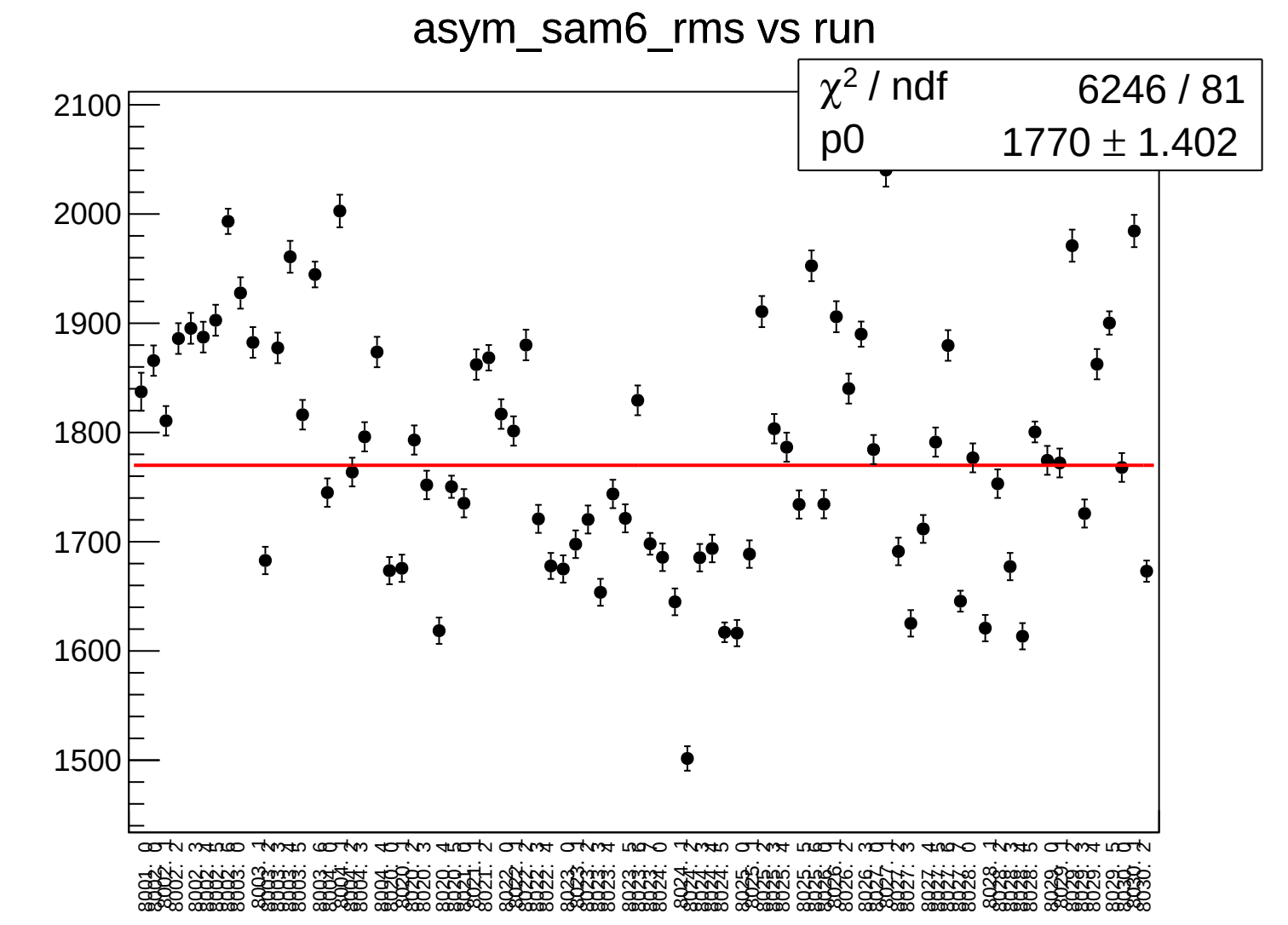

dit_asym_sam6_rms vs run
χ² / ndf 1.64e+04 / 81
p0 191.7 ± 0.1523
240
220
200
180
160

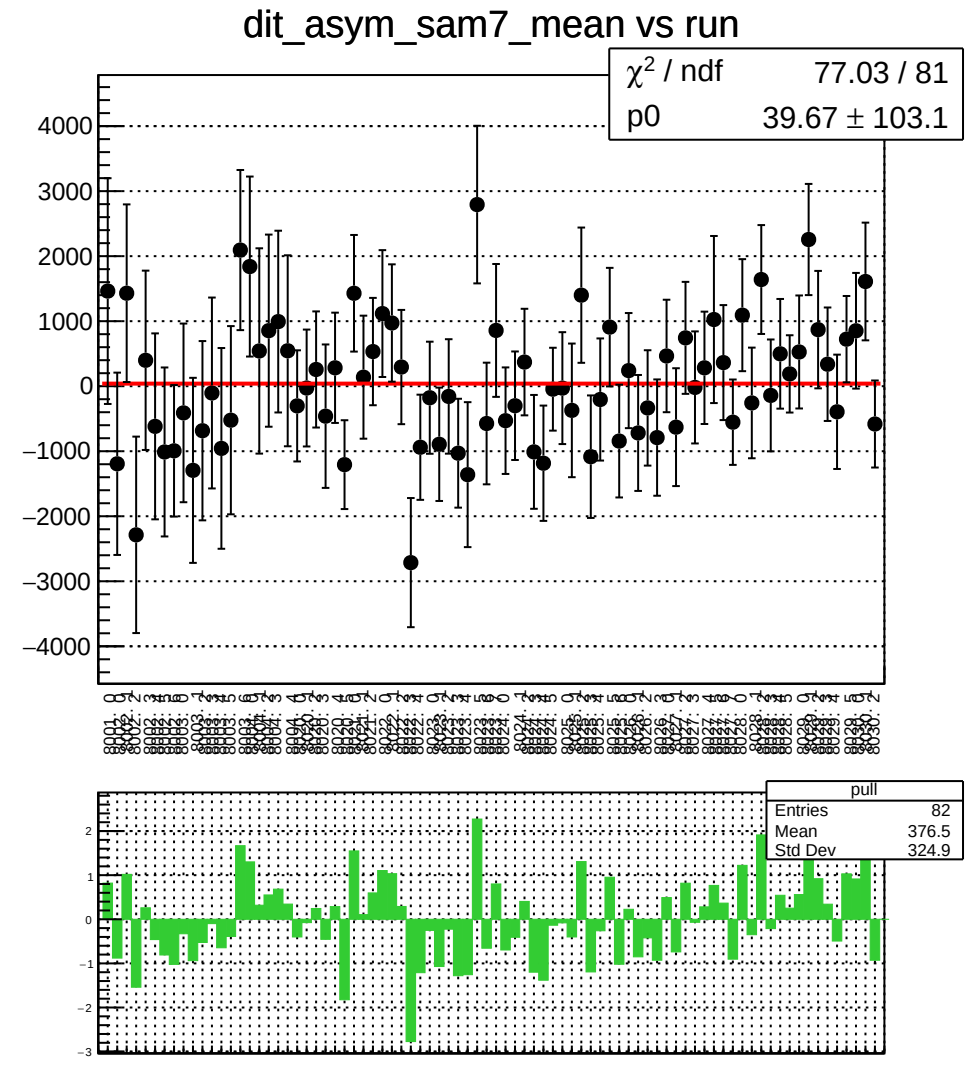

asym_sam6_correction_mean vs run
χ² / ndf 72.44 / 81
p0 14.98 ± 2009
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 301.6
Std Dev 251.5
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.009102
Std Dev 0.9398
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

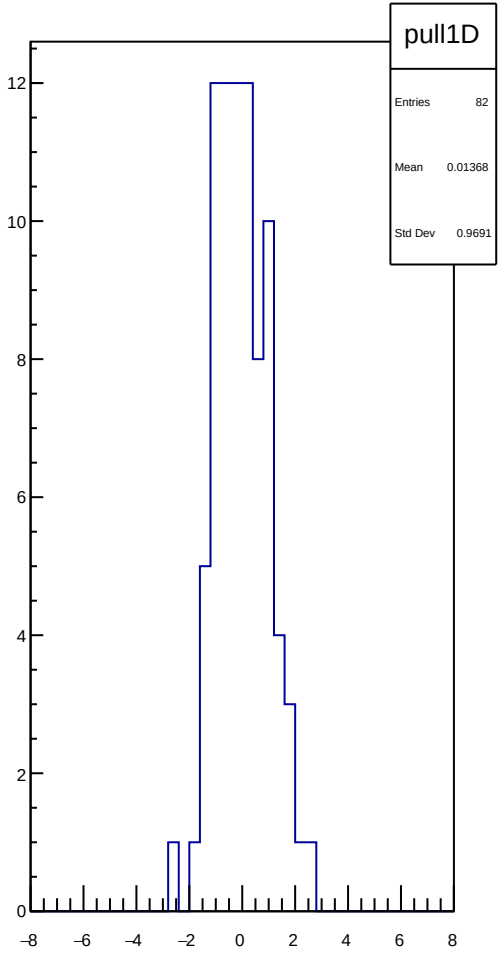

asym_sam6_correction_rms vs run
χ² / ndf 7963 / 81
p0 1793 ± 1.42
2200
2100
2000
1900
1800
1700
1600
1500

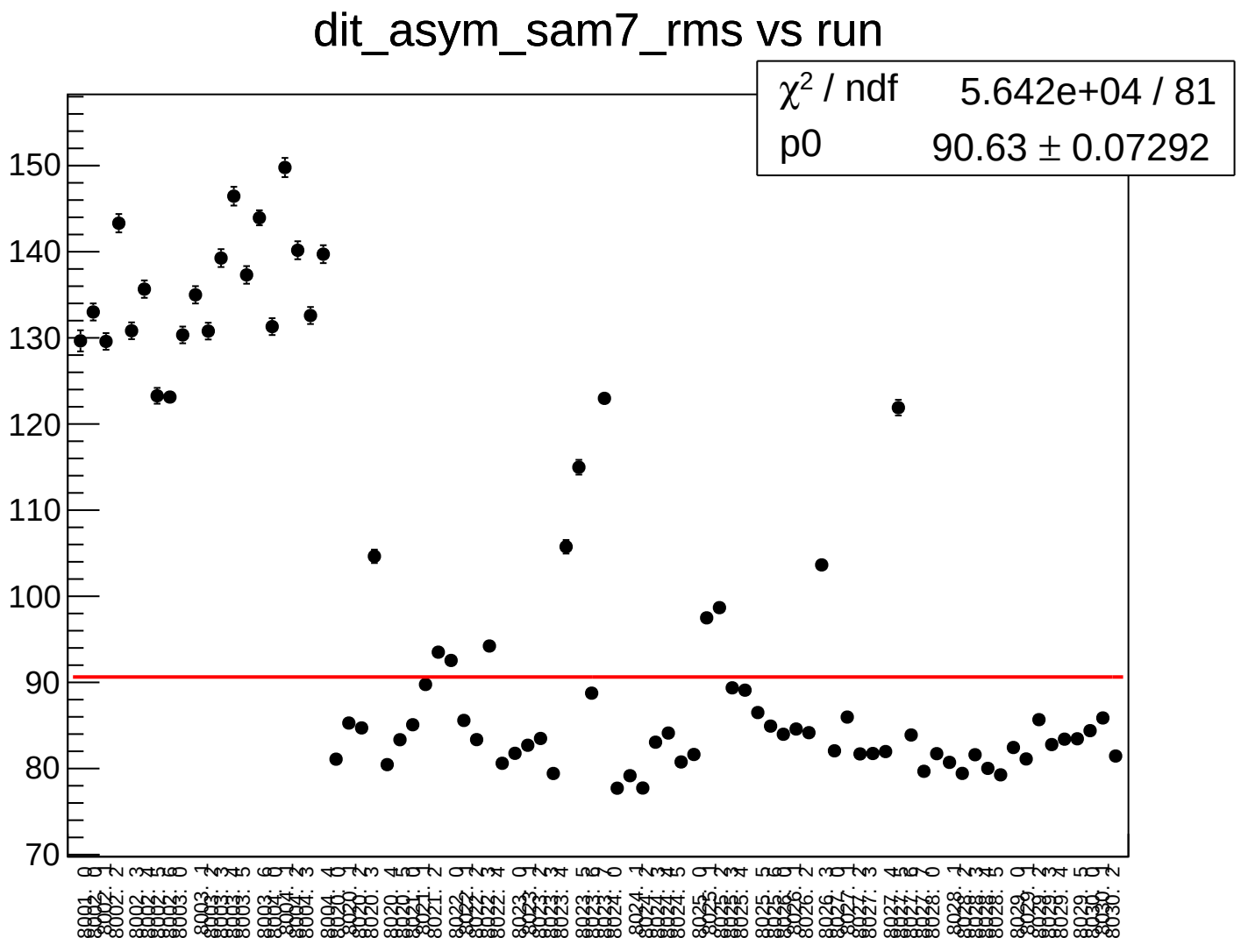

asym_sam6_mean vs run
χ² / ndf 69.73 / 81
p0 −57.29 ± 1982
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean 312.3
Std Dev 261.7
2
1
0
−1
−2

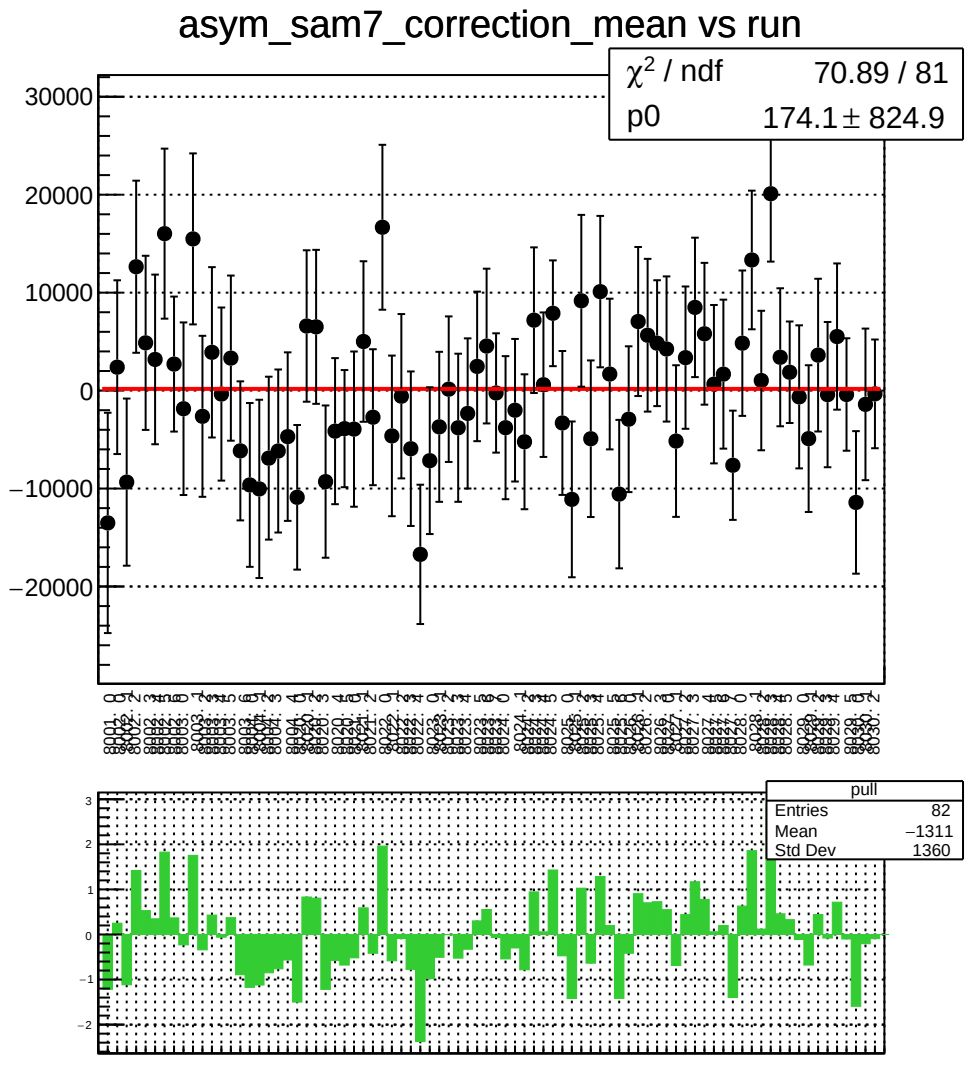

pull1D
Entries 82
Mean 0.008787
Std Dev 0.9221
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

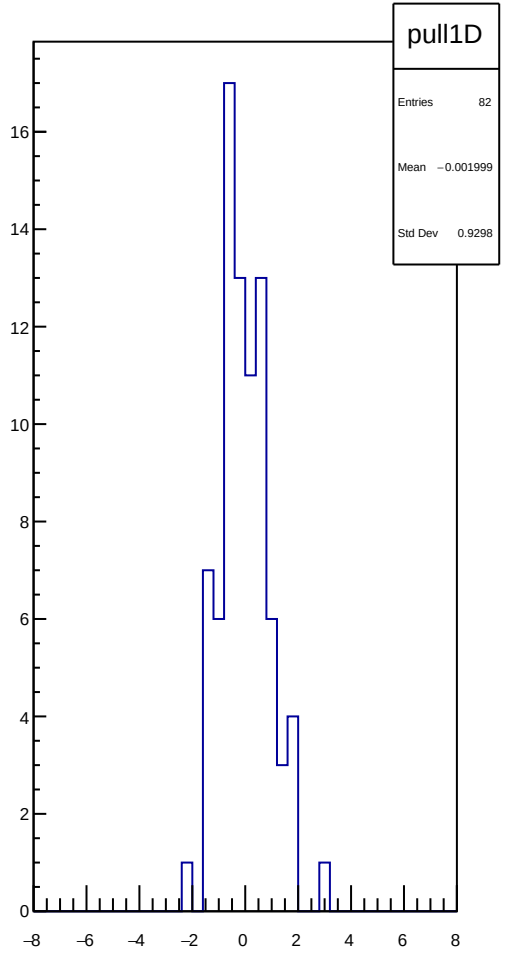

asym_sam6_rms vs run
χ² / ndf 6246 / 81
p0 1770 ± 1.402
2100
2000
1900
1800
1700
1600
1500

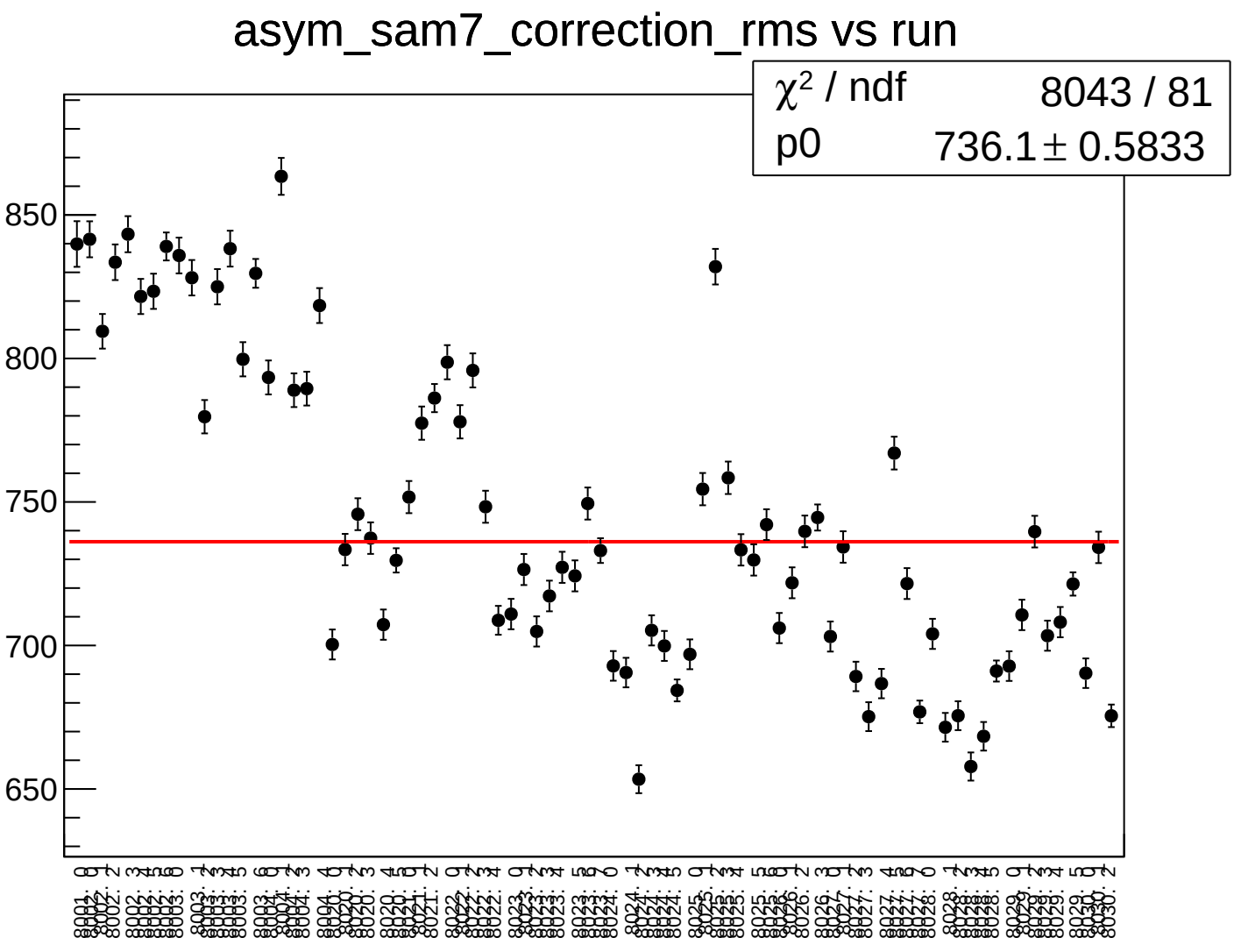

dit_asym_sam7_mean vs run
χ² / ndf 77.03 / 81
p0 39.67 ± 103.1
pull
Entries 82
Mean 376.5
Std Dev 324.9

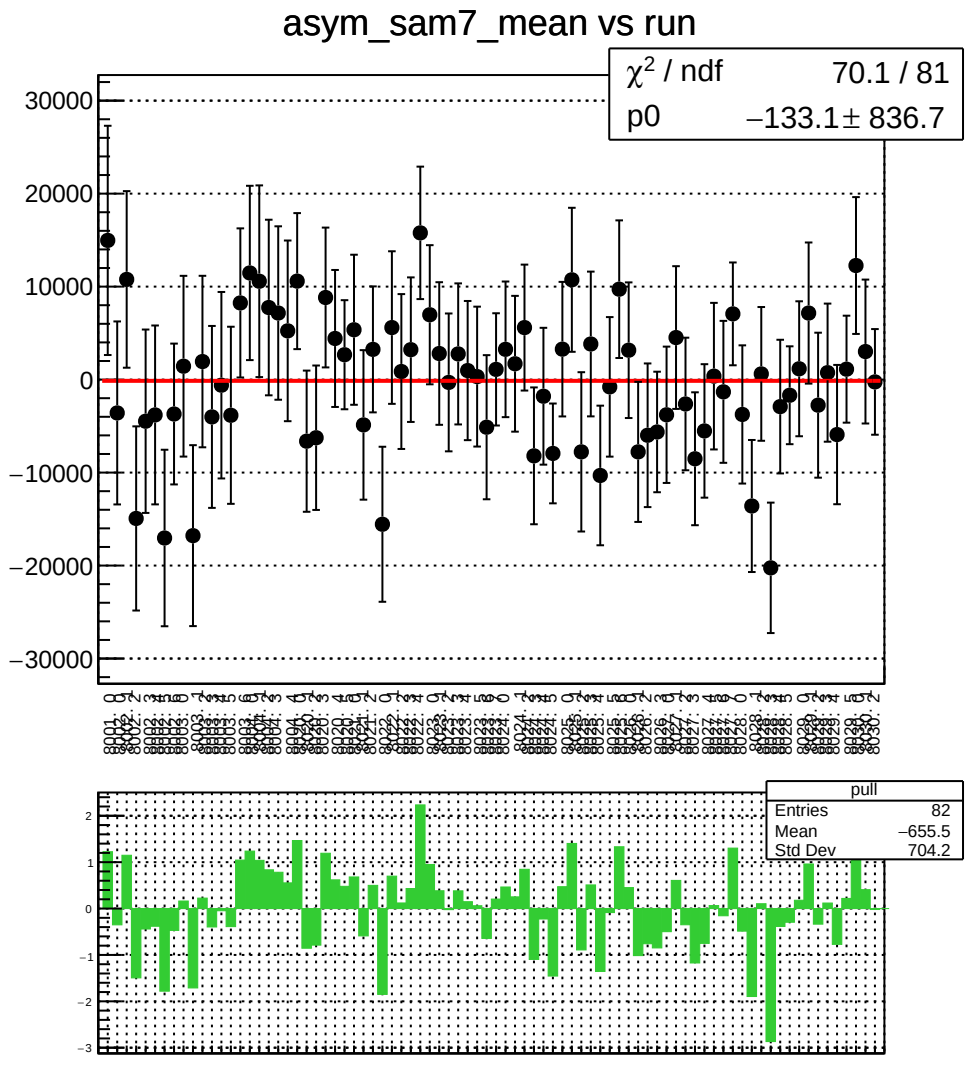

pull1D
Entries 82
Mean 0.01368
Std Dev 0.9691

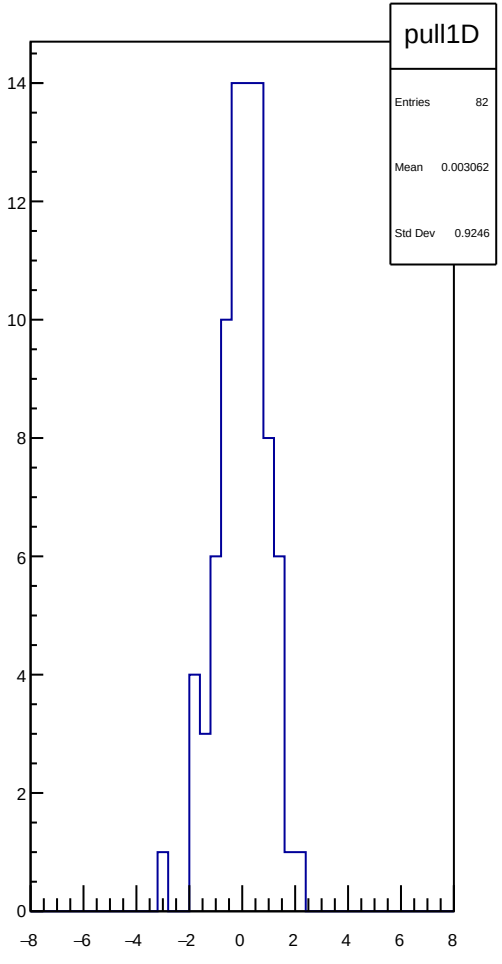

dit_asym_sam7_rms vs run
χ^2 / ndf 5.642e+04 / 81
p0 90.63 ± 0.07292
150
140
130
120
110
100
90
80
70

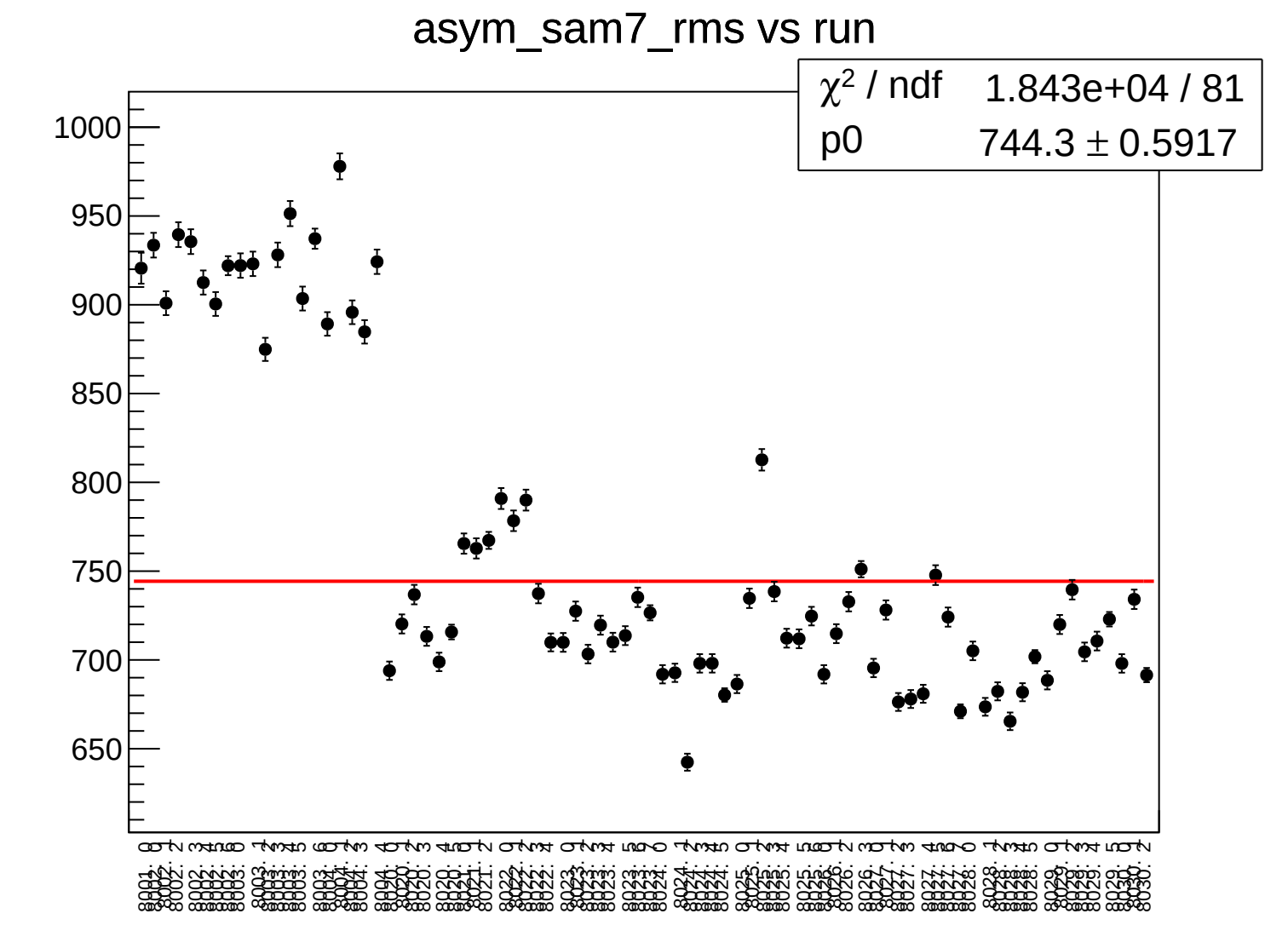

asym_sam7_correction_mean vs run
χ² / ndf 70.89 / 81
p0 174.1 ± 824.9
30000
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −1311
Std Dev 1360
3
2
1
0
−1
−2

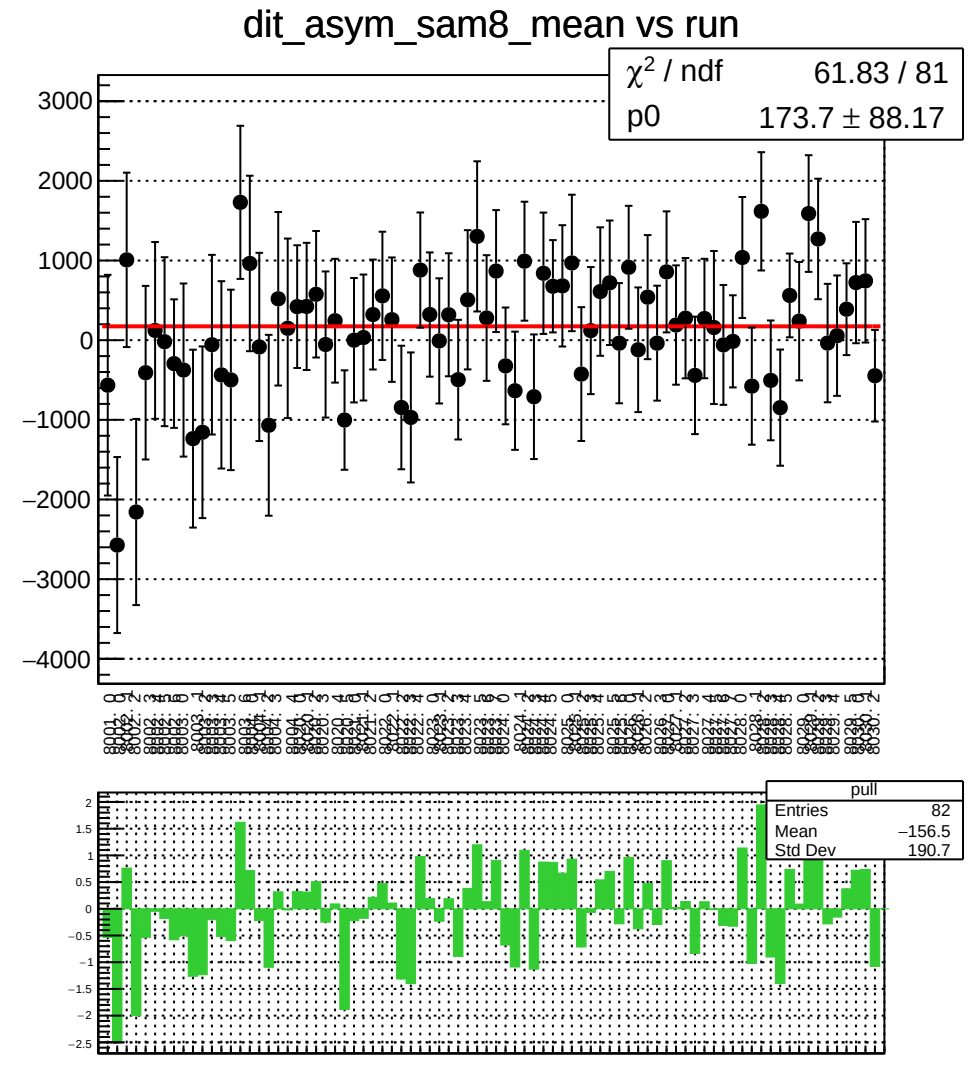

pull1D
Entries 82
Mean −0.001999
Std Dev 0.9298
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

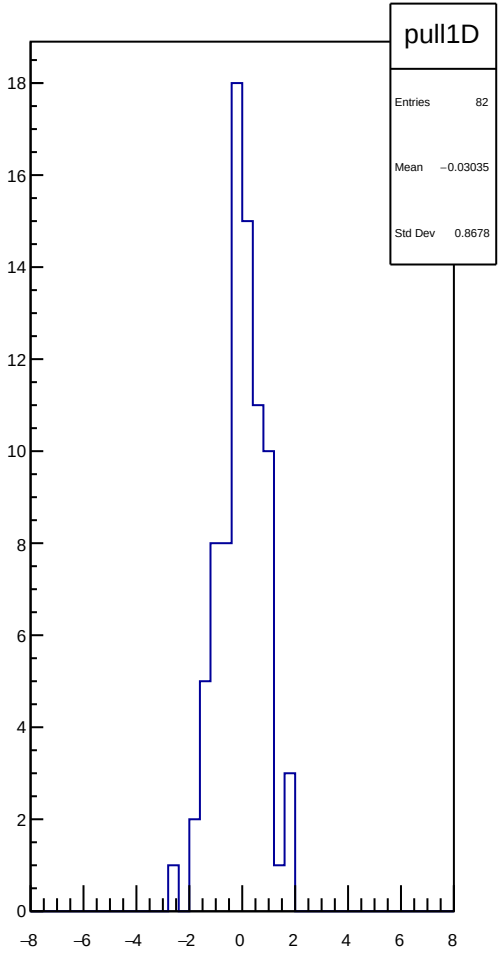

asym_sam7_correction_rms vs run
χ² / ndf 8043 / 81
p0 736.1 ± 0.5833
850
800
750
700
650

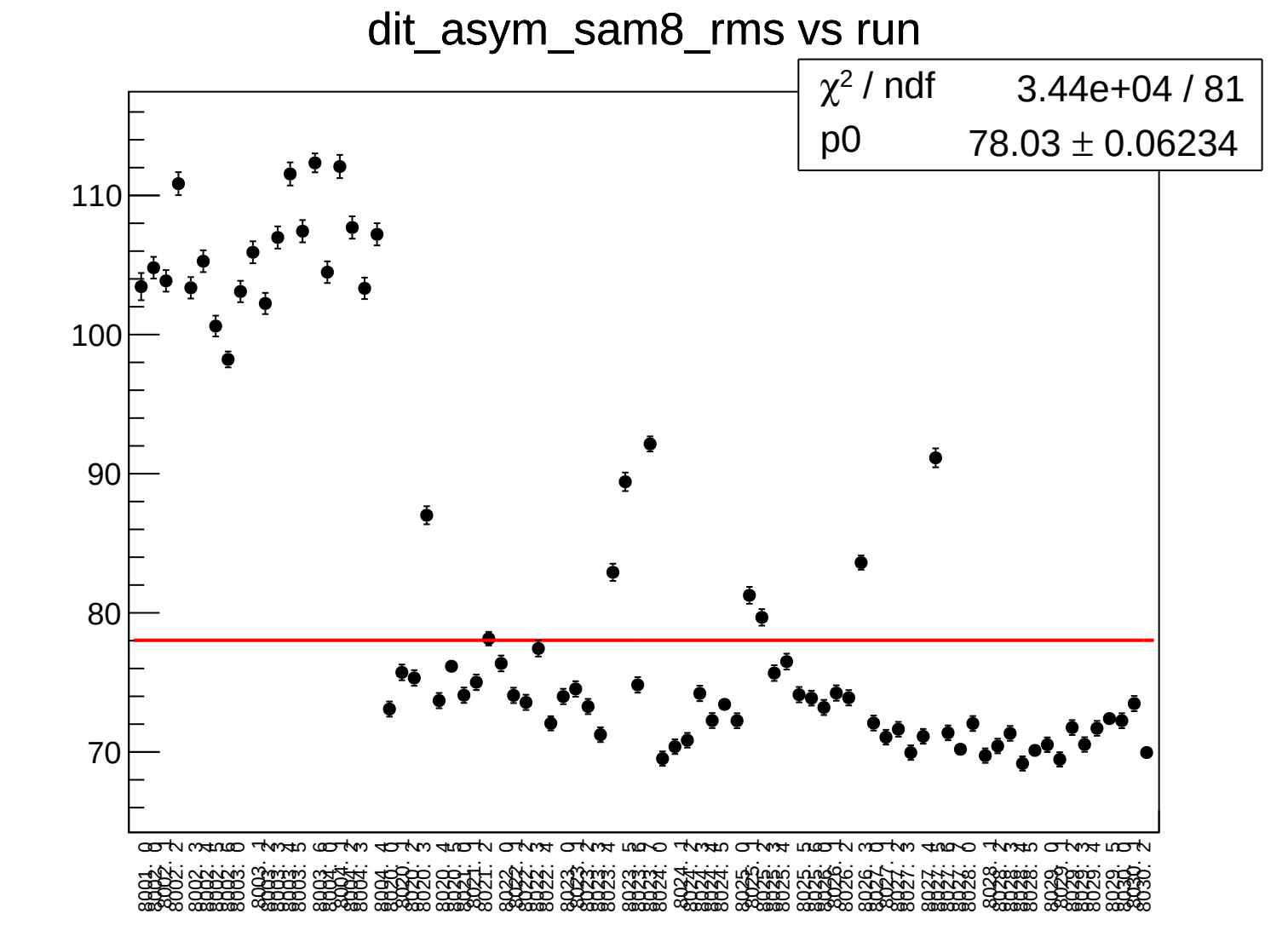

asym_sam7_mean vs run
χ^2 / ndf 70.1 / 81
p0 −133.1± 836.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −655.5
Std Dev 704.2
2
1
0
−1
−2
−3

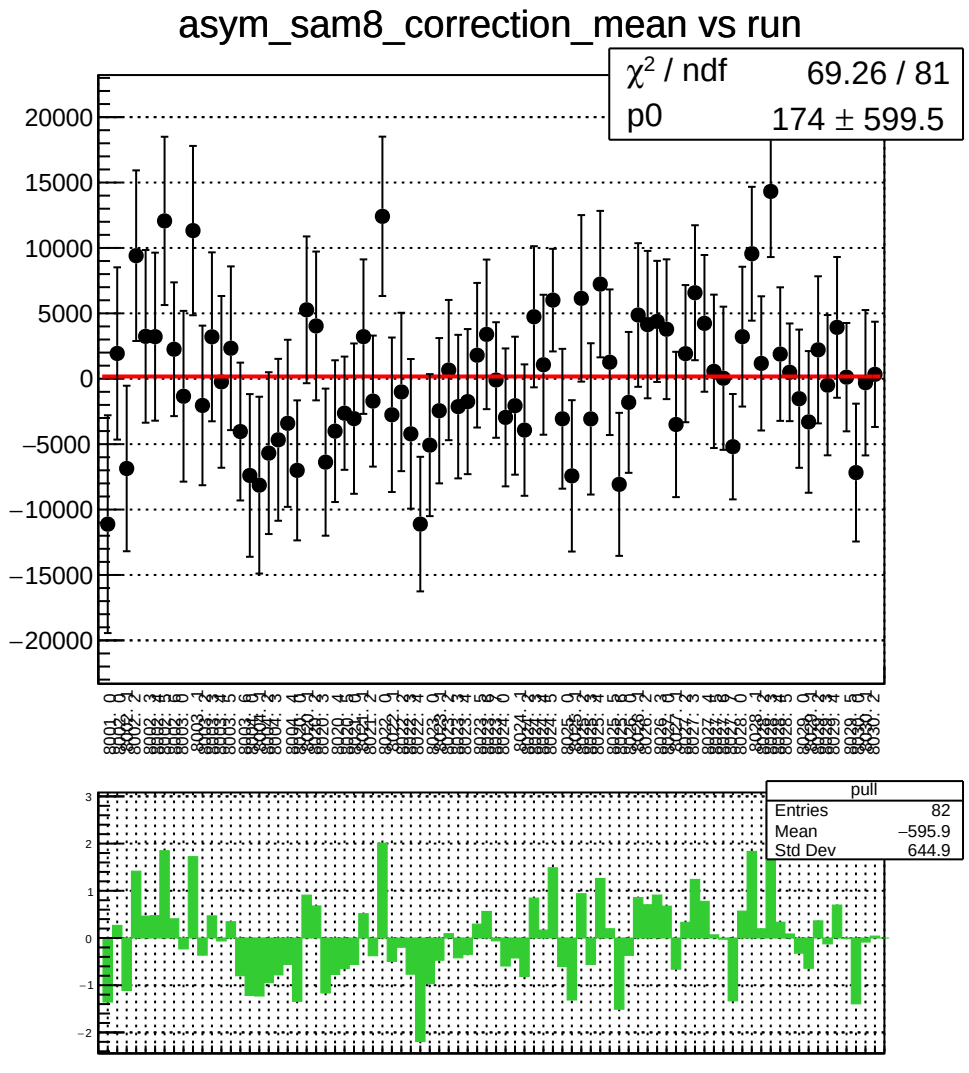

pull1D
Entries 82
Mean 0.003062
Std Dev 0.9246
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

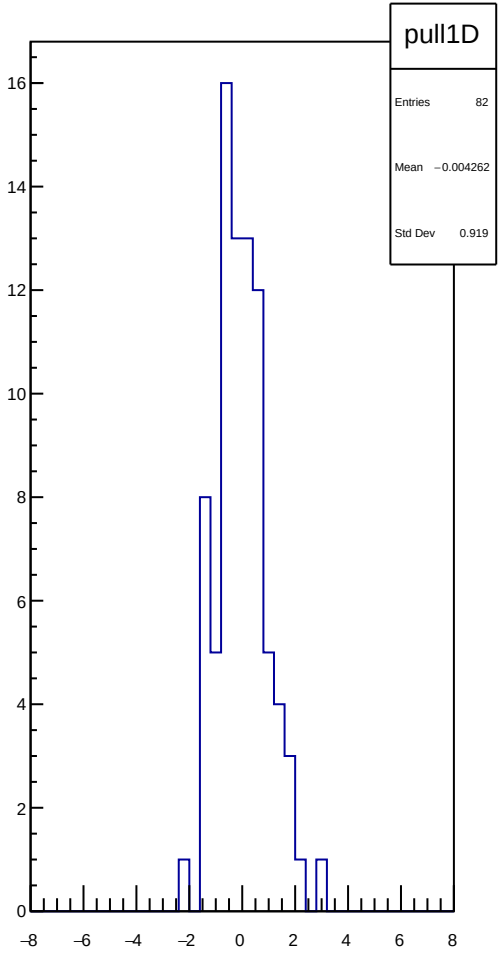

asym_sam7_rms vs run
χ² / ndf 1.843e+04 / 81
p0 744.3 ± 0.5917
1000
950
900
850
800
750
700
650

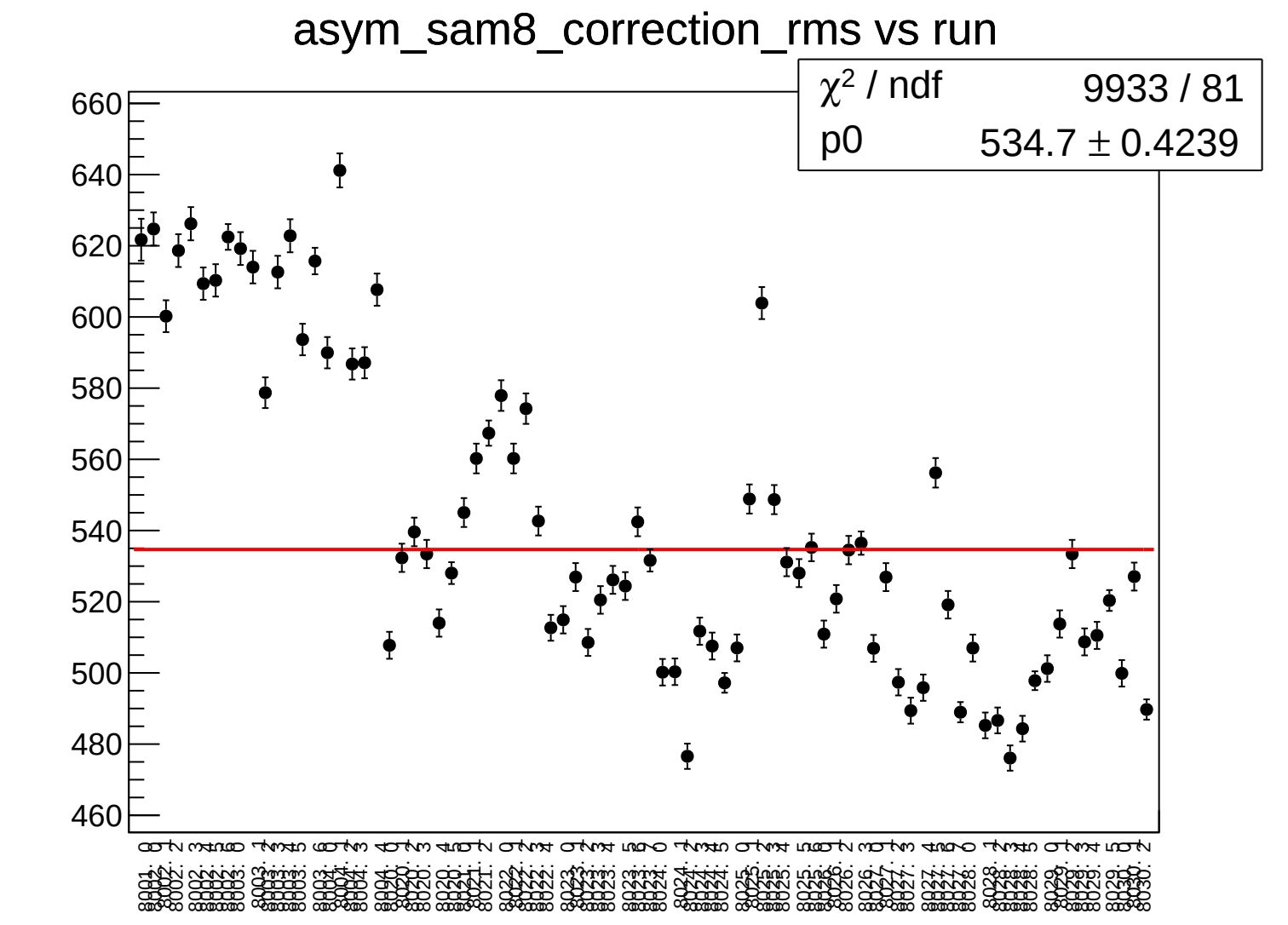

dit_asym_sam8_mean vs run
χ^2 / ndf 61.83 / 81
p0 173.7 ± 88.17
pull
Entries 82
Mean −156.5
Std Dev 190.7

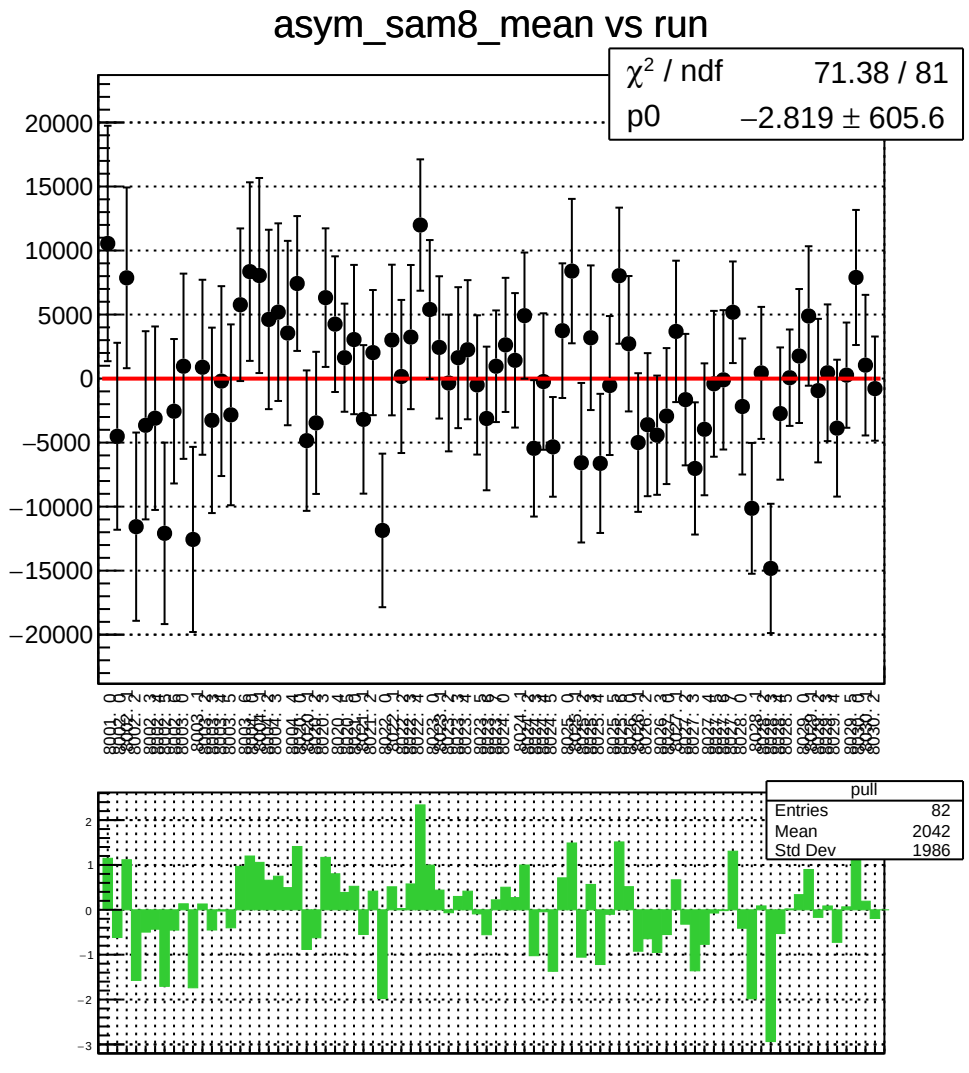

pull1D
Entries 82
Mean −0.03035
Std Dev 0.8678

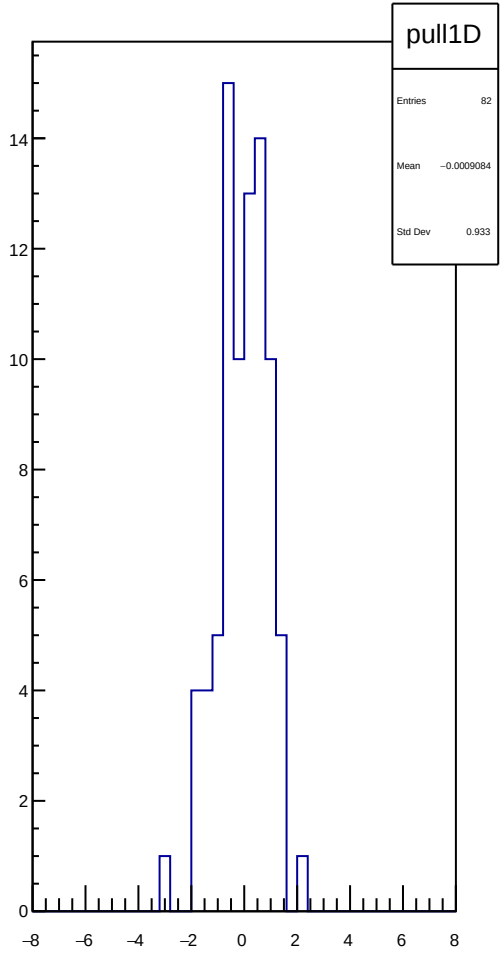

dit_asym_sam8_rms vs run
χ^2 / ndf 3.44e+04 / 81
p0 78.03 ± 0.06234
110
100
90
80
70

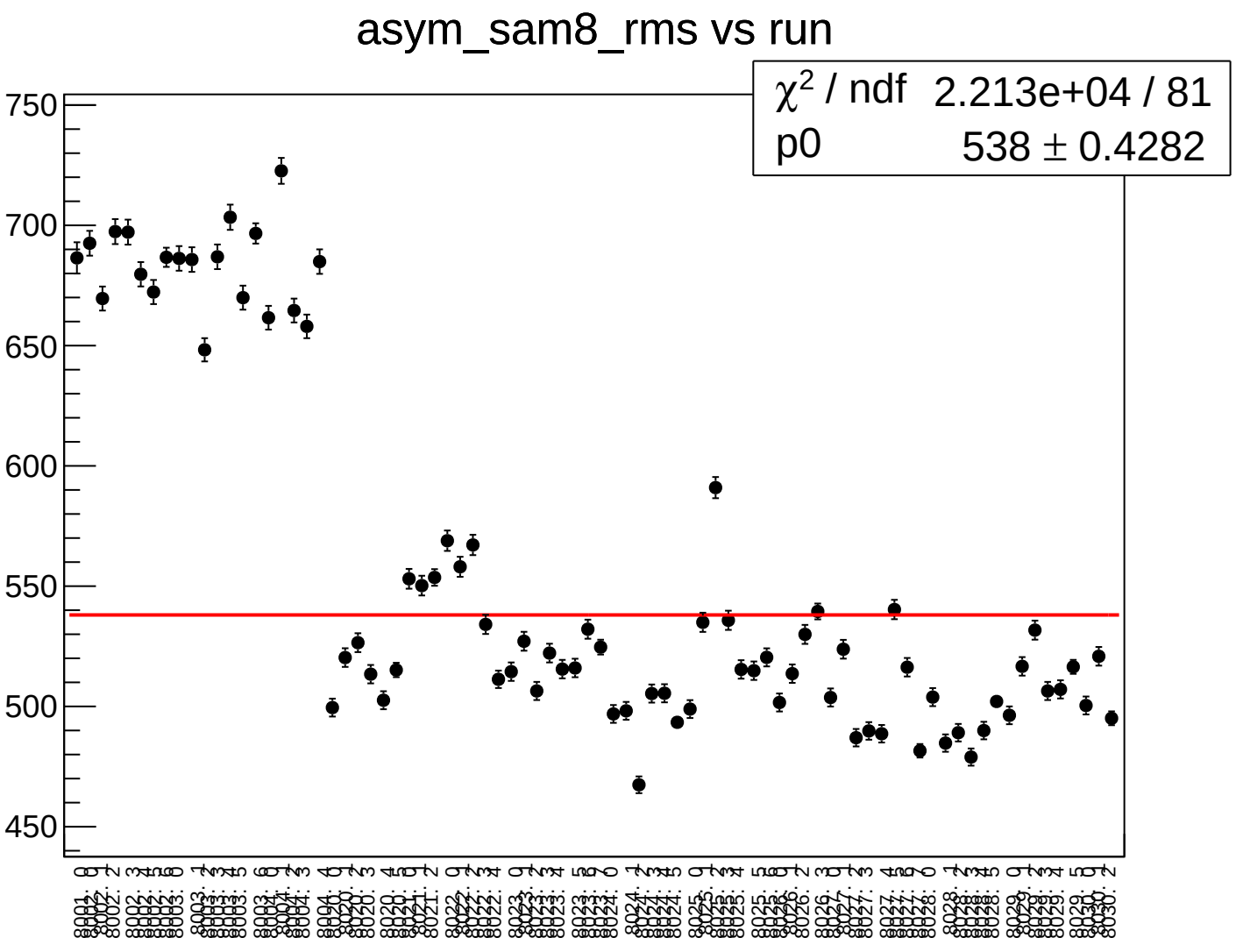

asym_sam8_correction_mean vs run
χ² / ndf 69.26 / 81
p0 174 ± 599.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 82
Mean −595.9
Std Dev 644.9
3
2
1
0
−1
−2

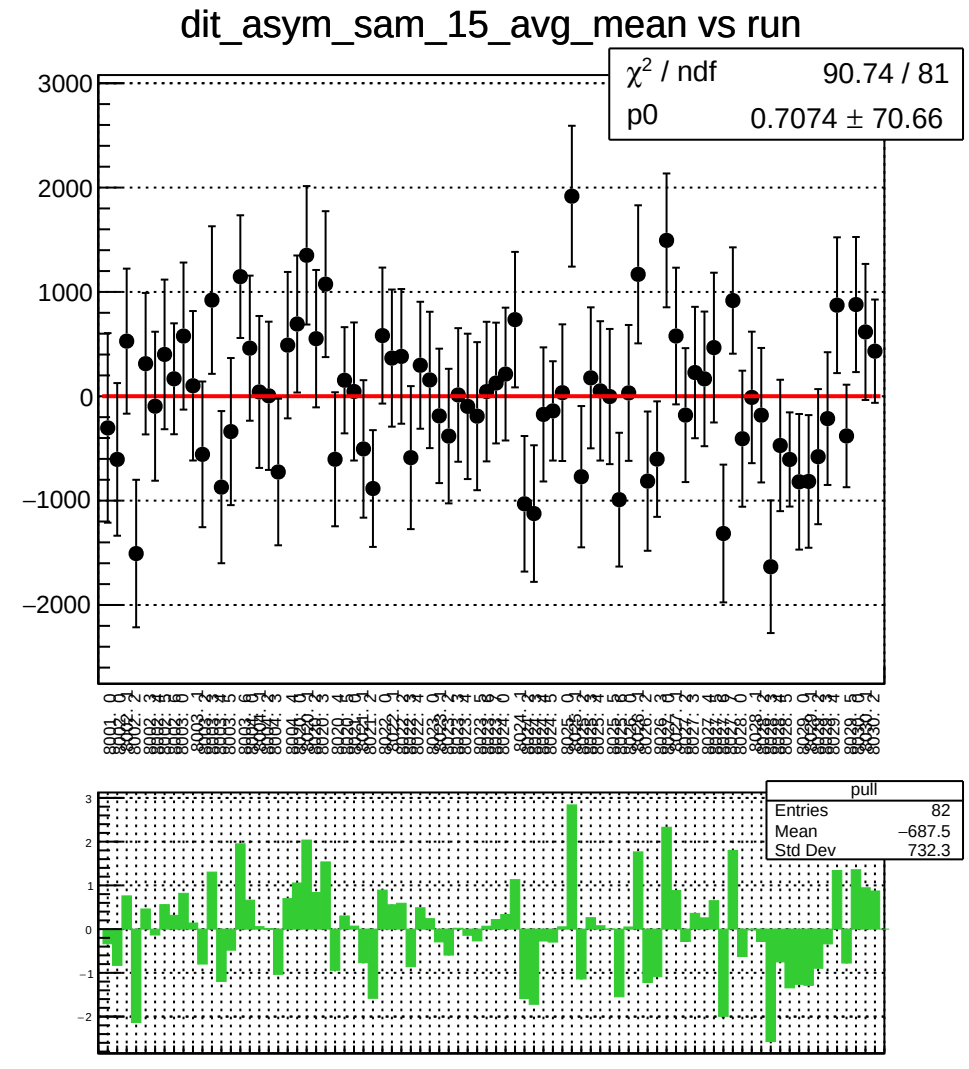

pull1D
Entries 82
Mean −0.004262
Std Dev 0.919
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

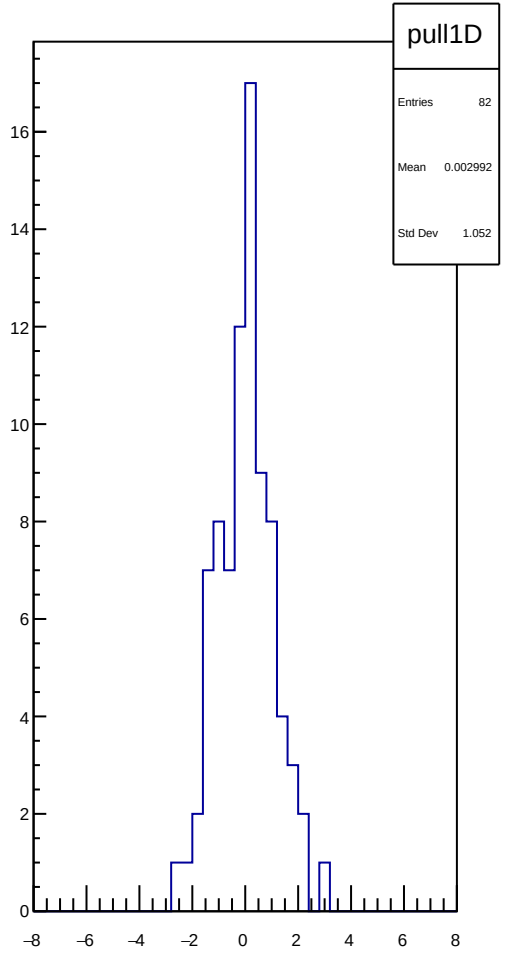

asym_sam8_correction_rms vs run
χ^2 / ndf 9933 / 81
p0 534.7 ± 0.4239
660
640
620
600
580
560
540
520
500
480
460

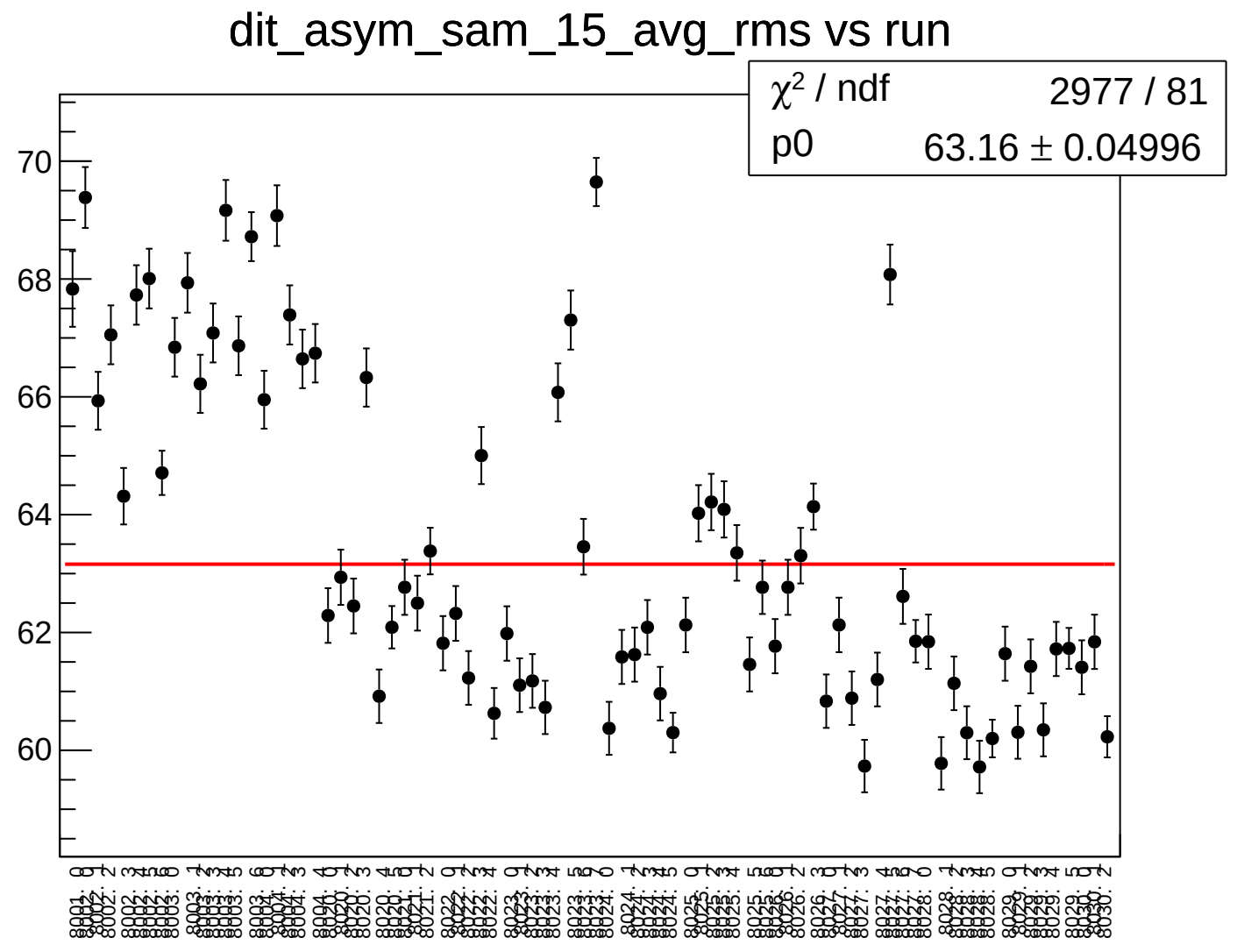

asym_sam8_mean vs run
χ² / ndf 71.38 / 81
p0 −2.819 ± 605.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 82
Mean 2042
Std Dev 1986
2
1
0
−1
−2
−3

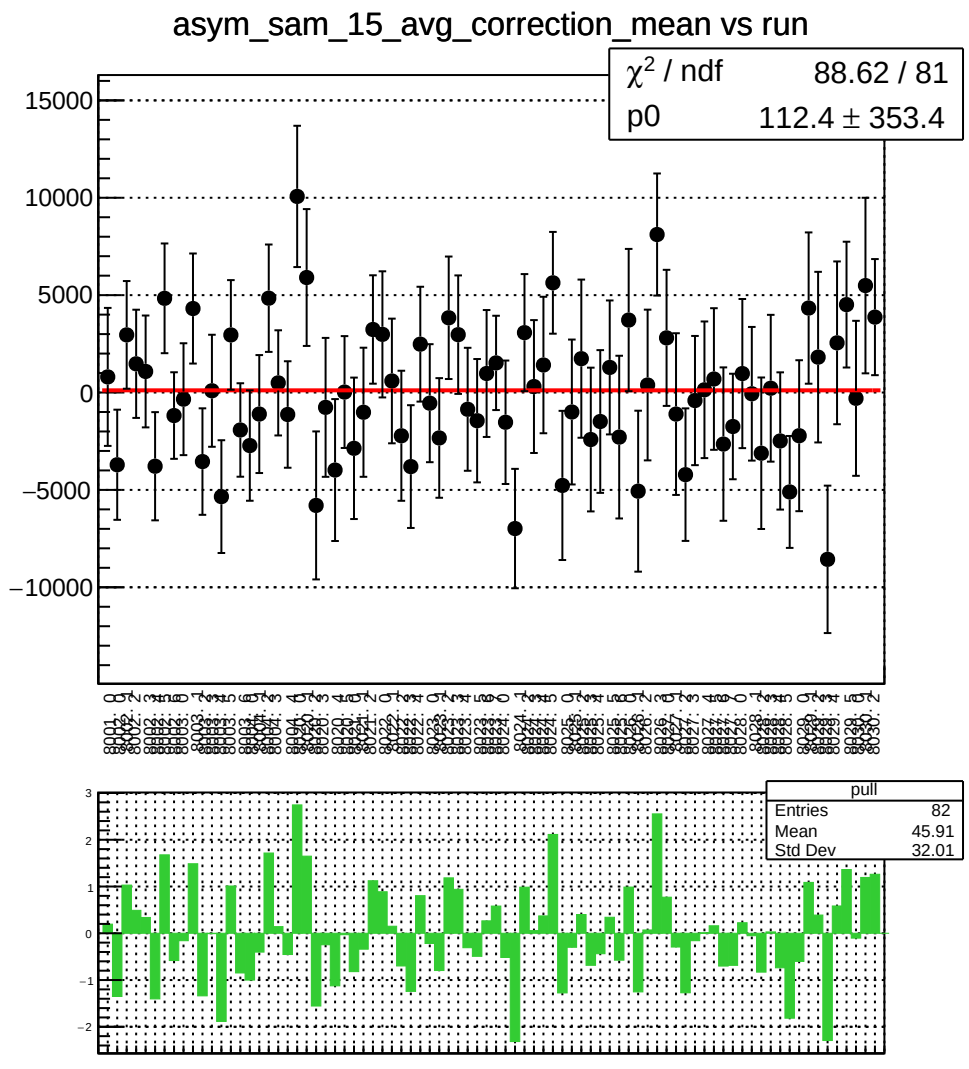

pull1D
Entries 82
Mean −0.0009084
Std Dev 0.933
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

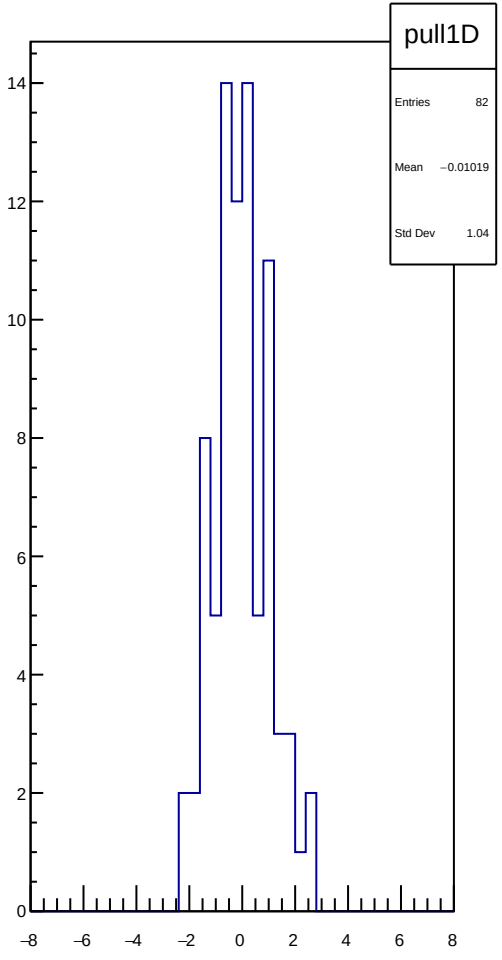

asym_sam8_rms vs run
χ^2 / ndf 2.213e+04 / 81
p0 538 ± 0.4282
750
700
650
600
550
500
450

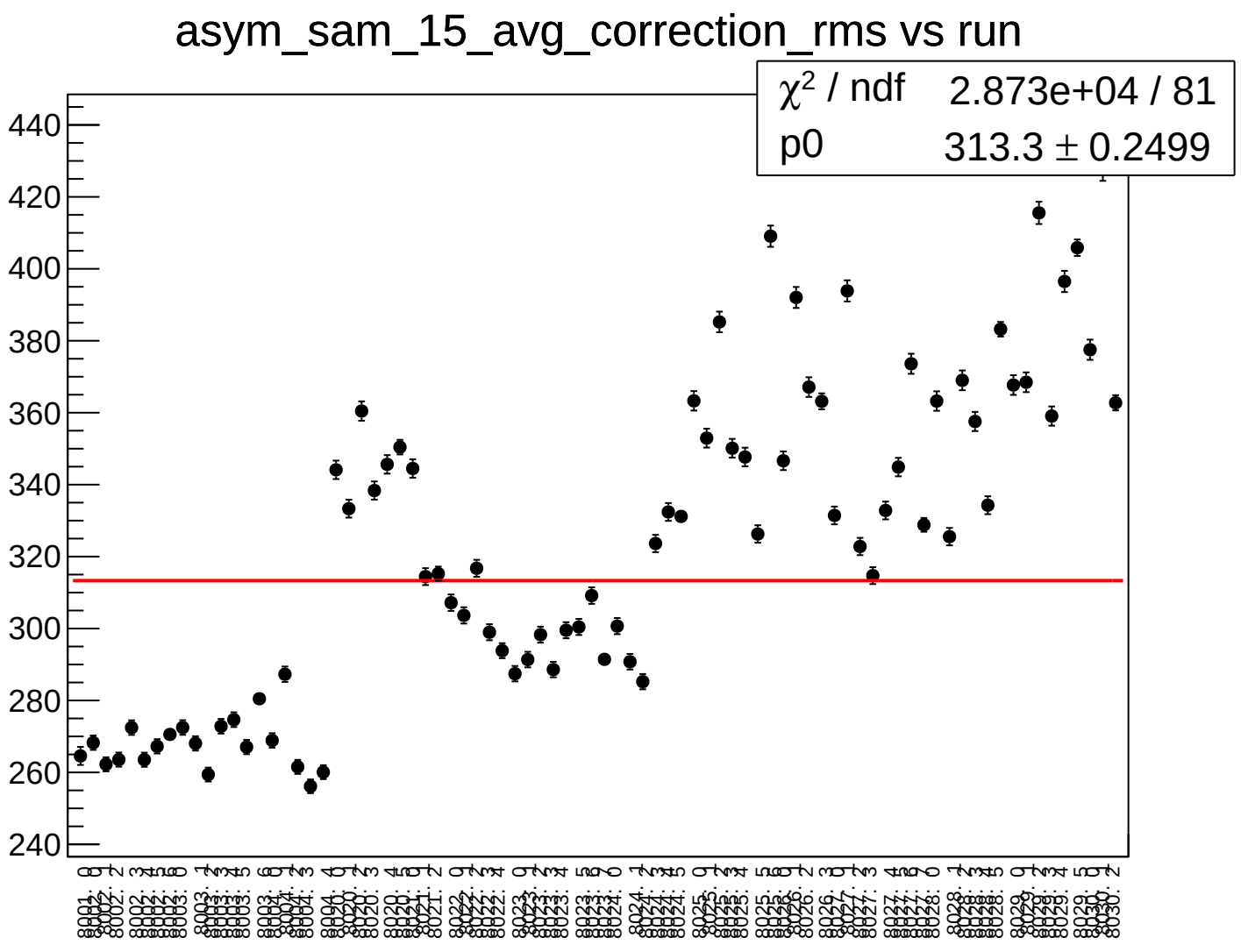

dit_asym_sam_15_avg_mean vs run
χ² / ndf 90.74 / 81
p0 0.7074 ± 70.66
pull
Entries 82
Mean −687.5
Std Dev 732.3

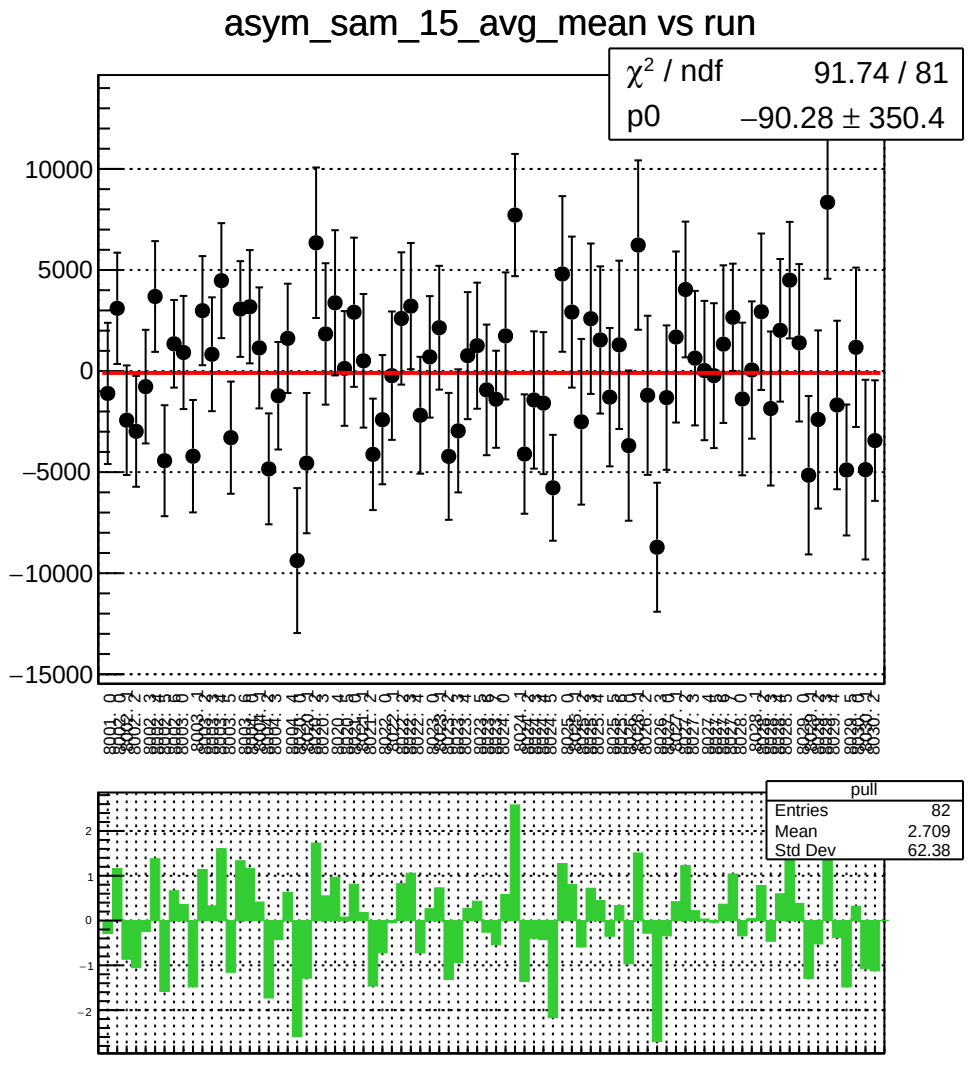

pull1D
Entries 82
Mean 0.002992
Std Dev 1.052

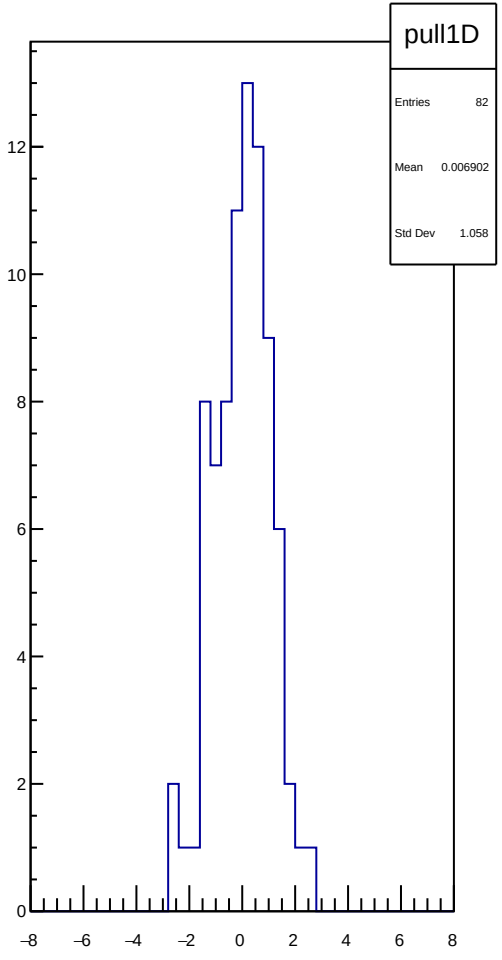

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 2977 / 81
p0 63.16 ± 0.04996
70
68
66
64
62
60

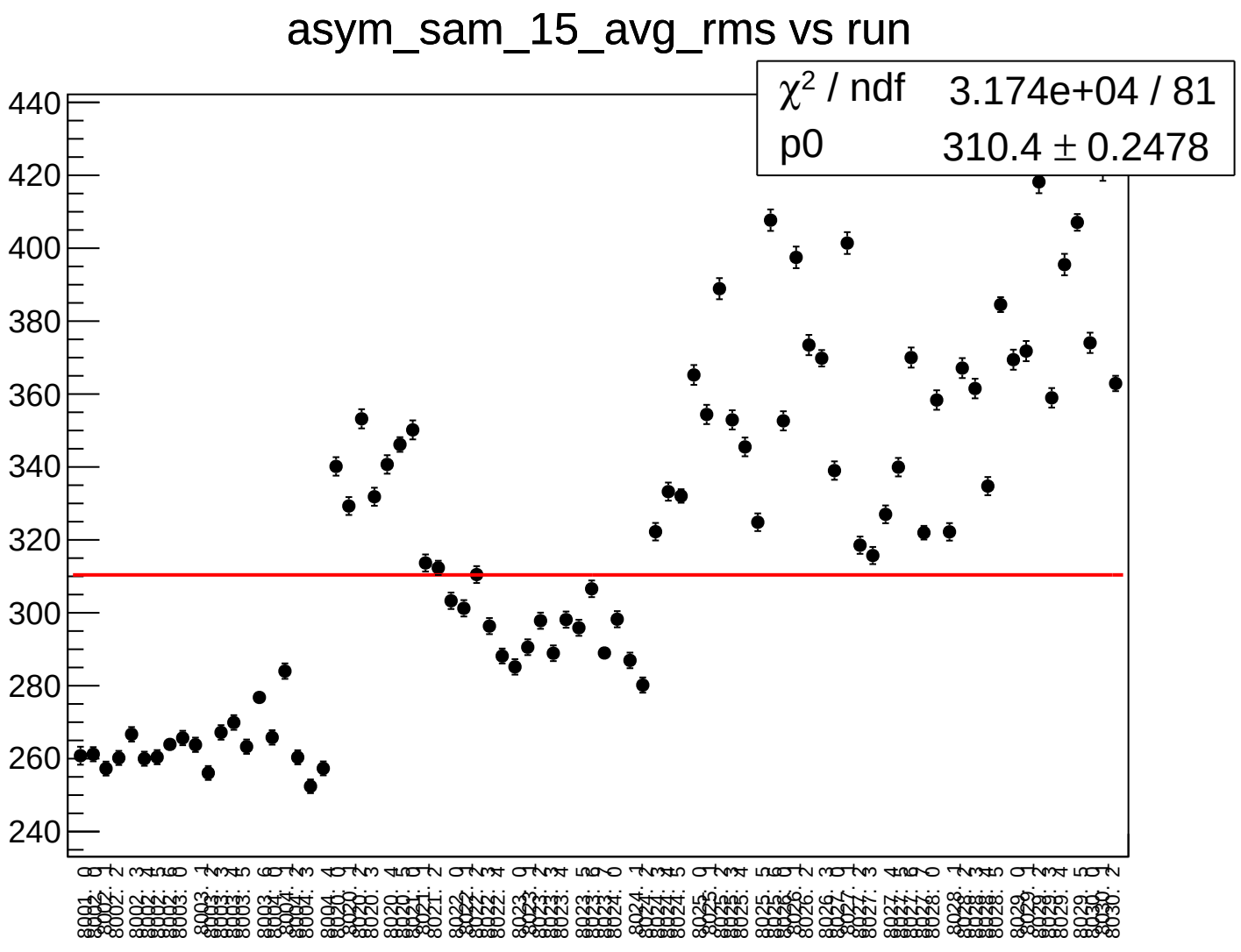

asym_sam_15_avg_correction_mean vs run
χ² / ndf 88.62 / 81
p0 112.4 ± 353.4
15000
10000
5000
0
−5000
−10000
pull
Entries 82
Mean 45.91
Std Dev 32.01
3
2
1
0
−1
−2

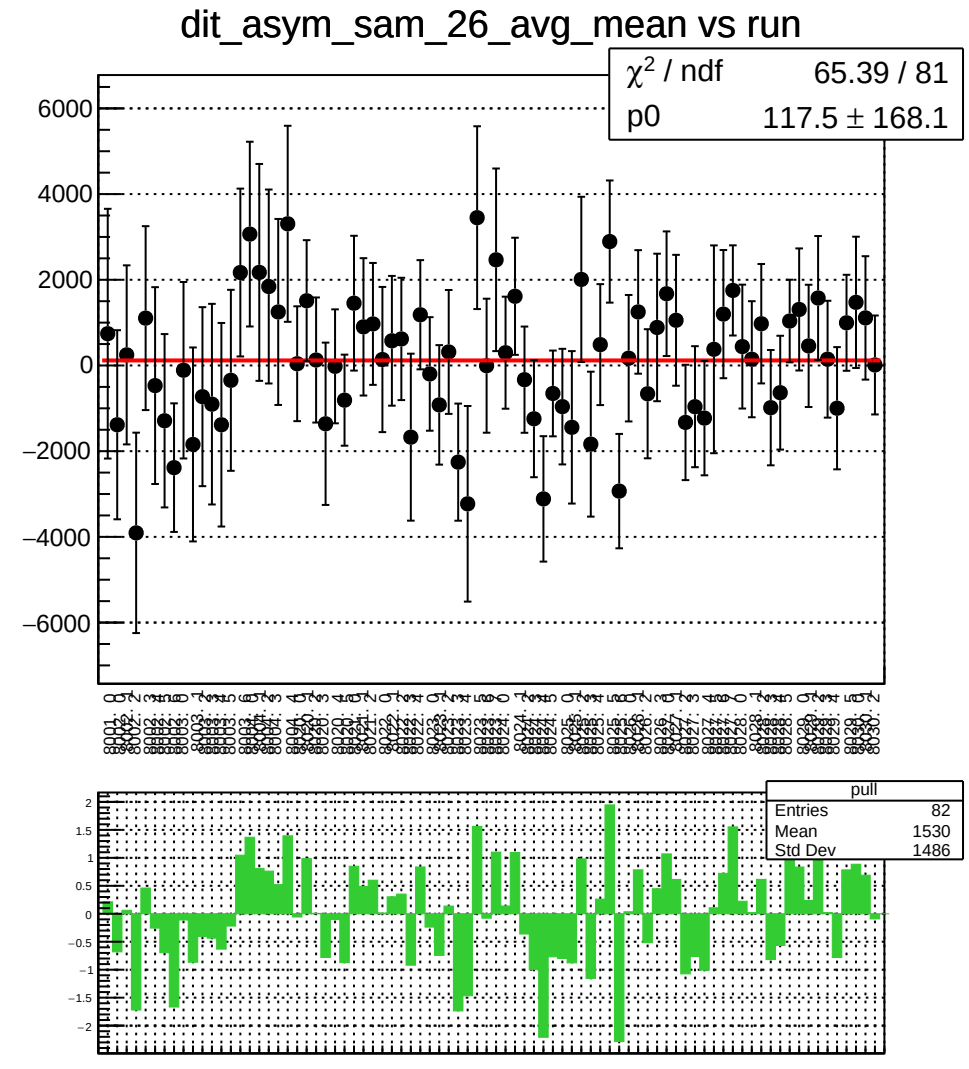

pull1D
Entries 82
Mean −0.01019
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

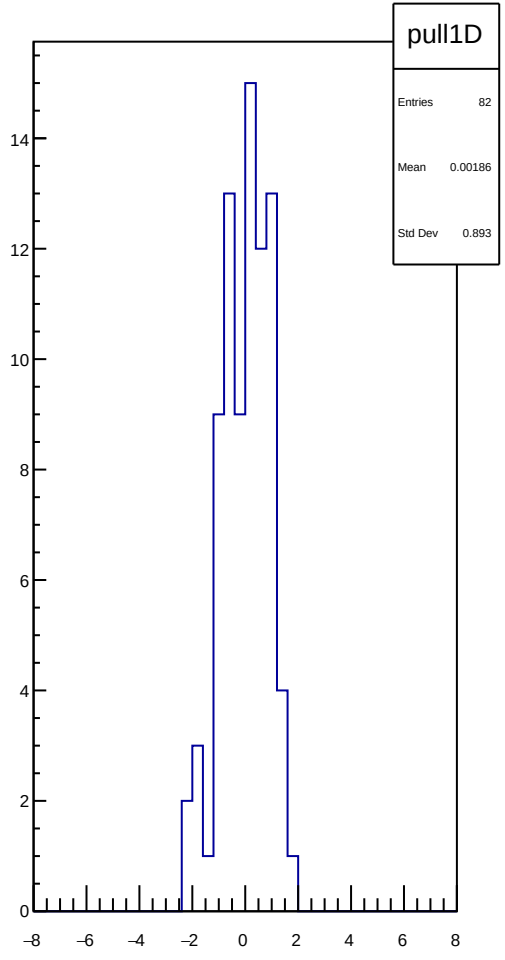

asym_sam_15_avg_correction_rms vs run
χ^2 / ndf 2.873e+04 / 81
p0 313.3 ± 0.2499
440
420
400
380
360
340
320
300
280
260
240

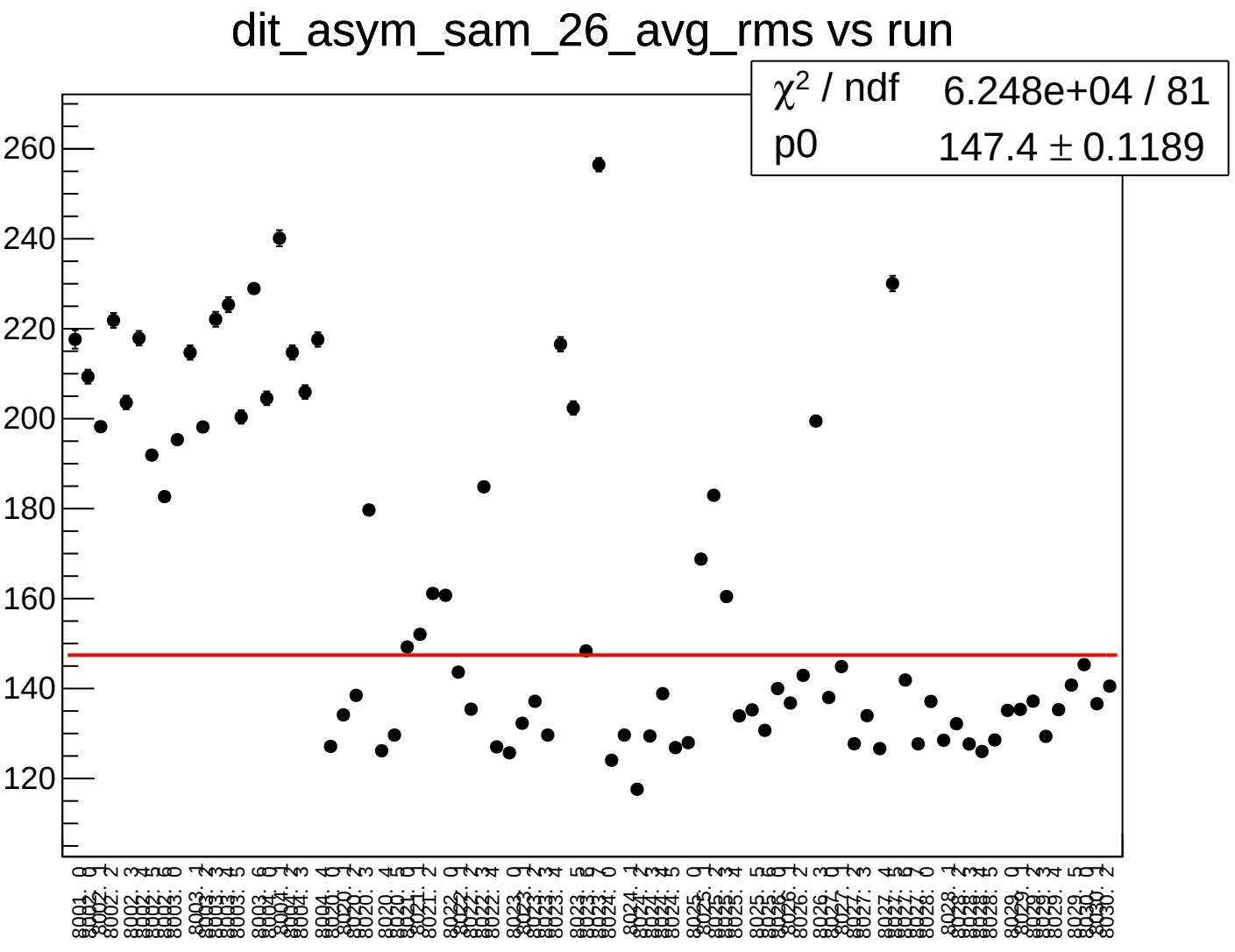

asym_sam_15_avg_mean vs run
χ² / ndf 91.74 / 81
p0 −90.28 ± 350.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean 2.709
Std Dev 62.38
2
1
0
−1
−2

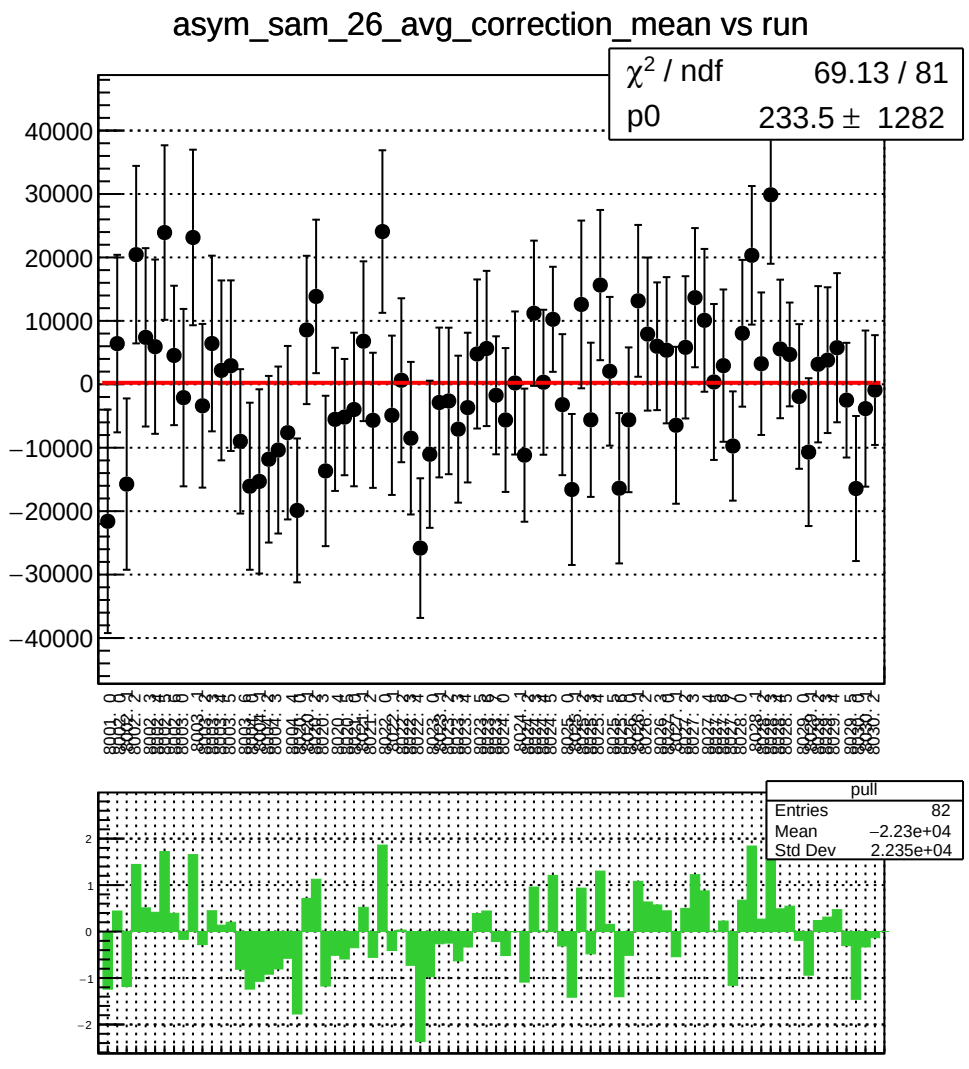

pull1D
Entries 82
Mean 0.006902
Std Dev 1.058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

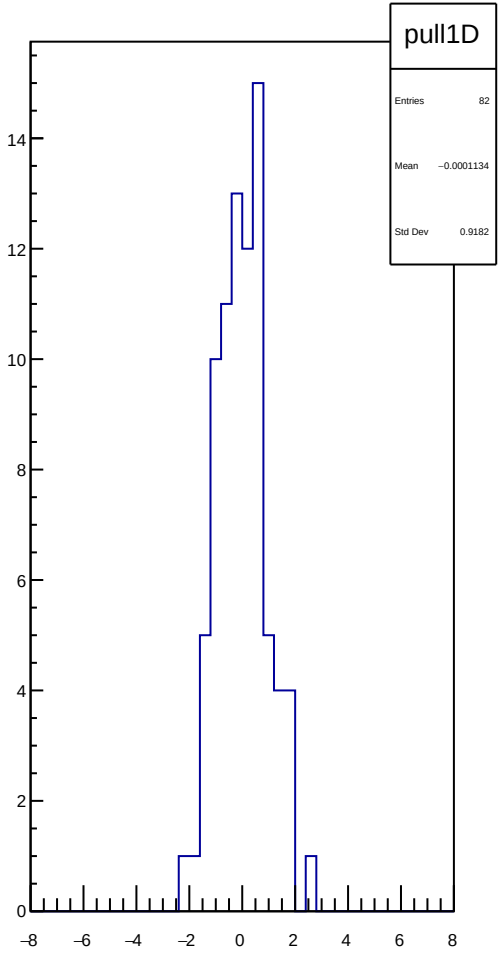

asym_sam_15_avg_rms vs run
χ² / ndf 3.174e+04 / 81
p0 310.4 ± 0.2478
440
420
400
380
360
340
320
300
280
260
240

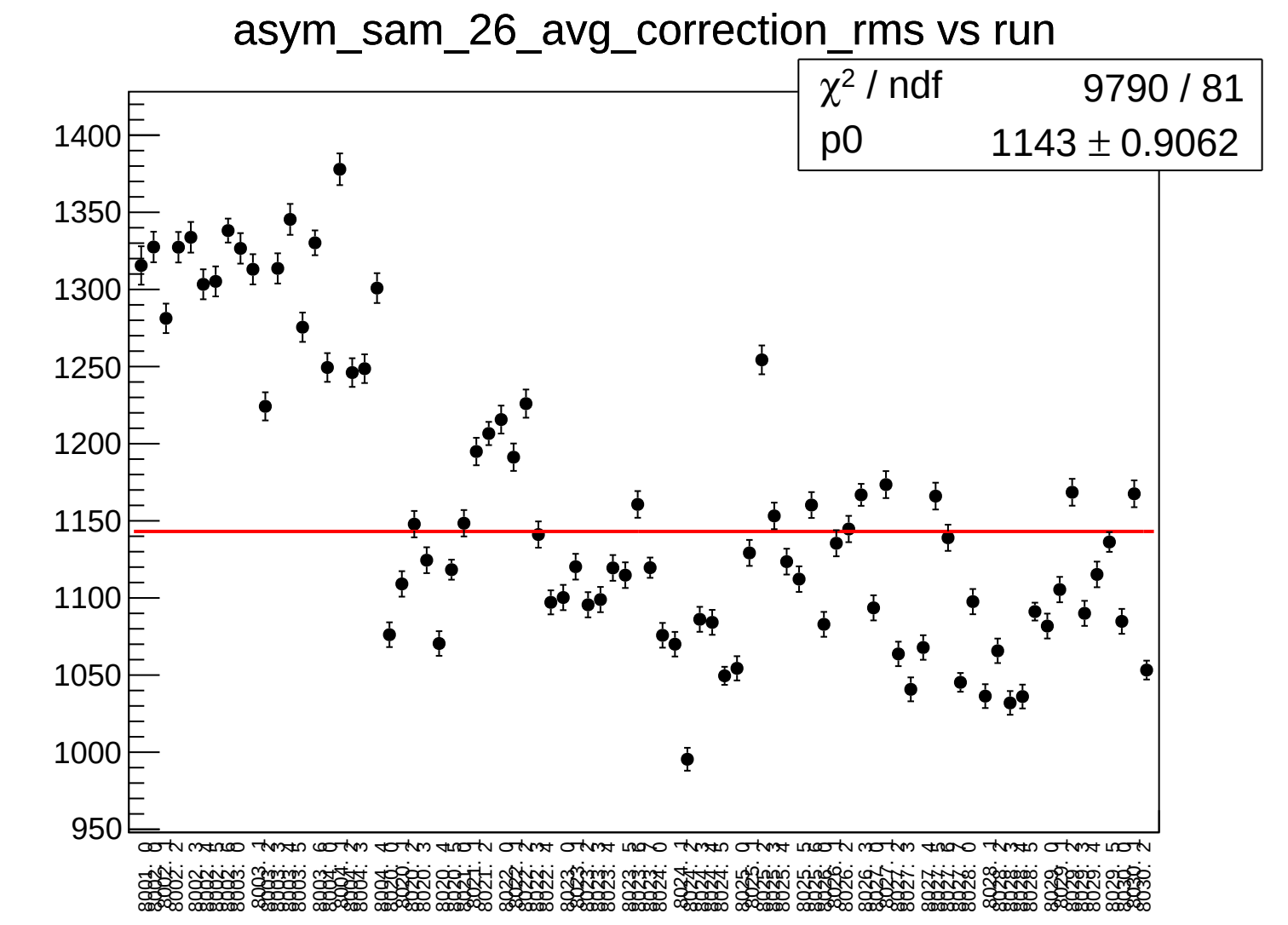

dit_asym_sam_26_avg_mean vs run
χ² / ndf 65.39 / 81
p0 117.5 ± 168.1
pull
Entries 82
Mean 1530
Std Dev 1486

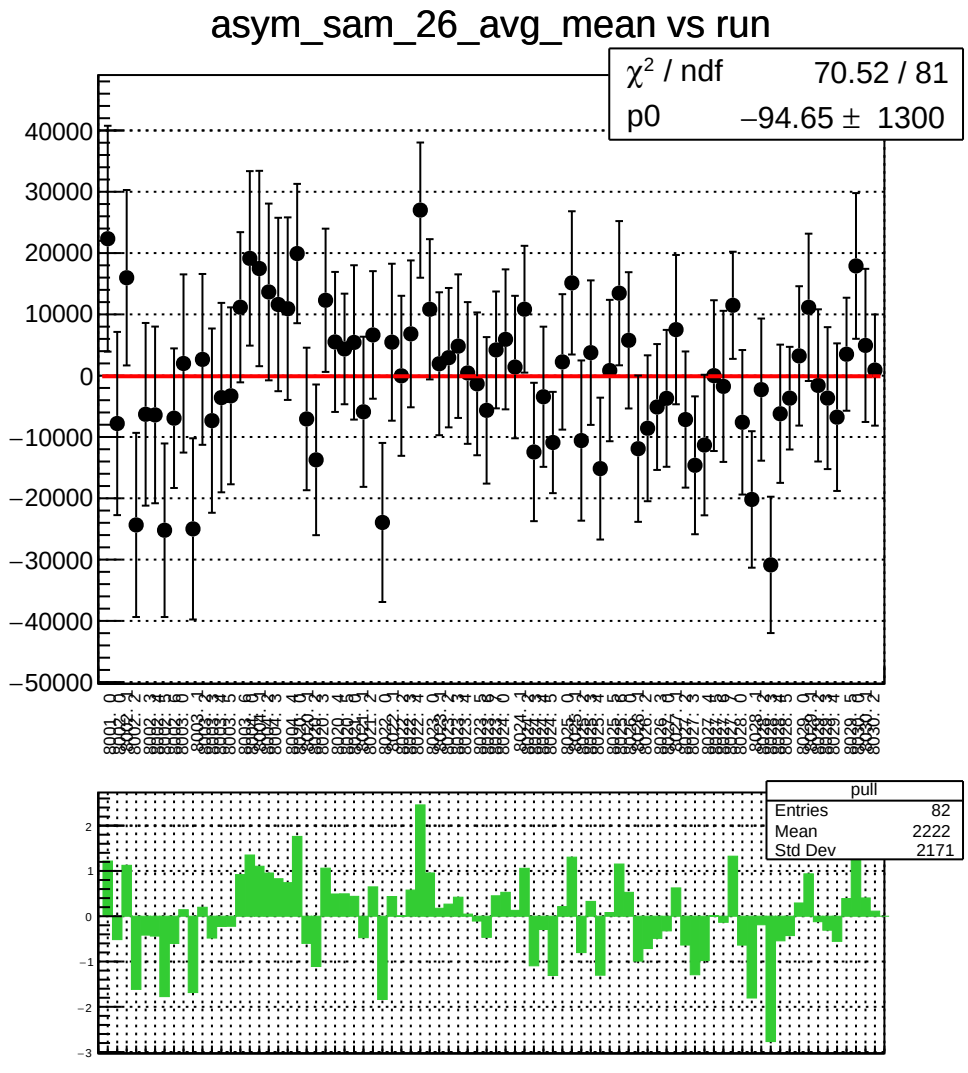

pull1D
Entries 82
Mean 0.00186
Std Dev 0.893

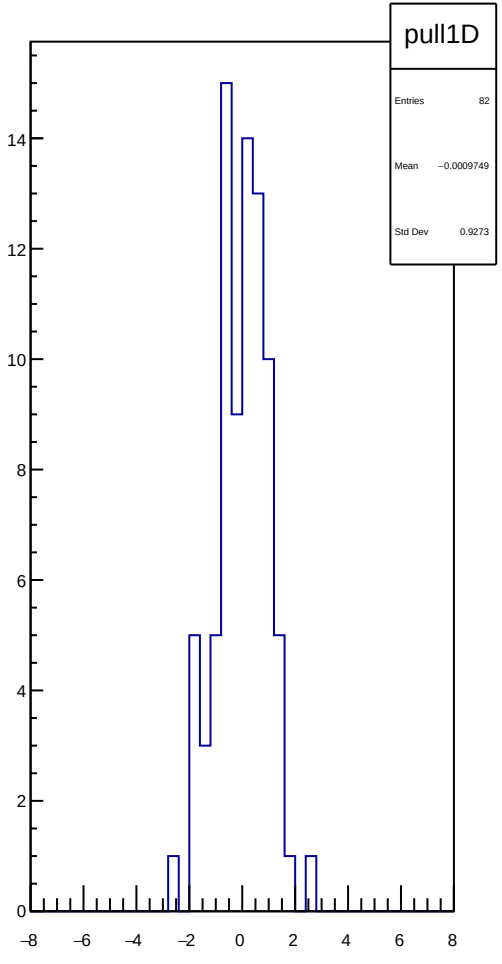

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 6.248e+04 / 81
p0 147.4 ± 0.1189
260
240
220
200
180
160
140
120

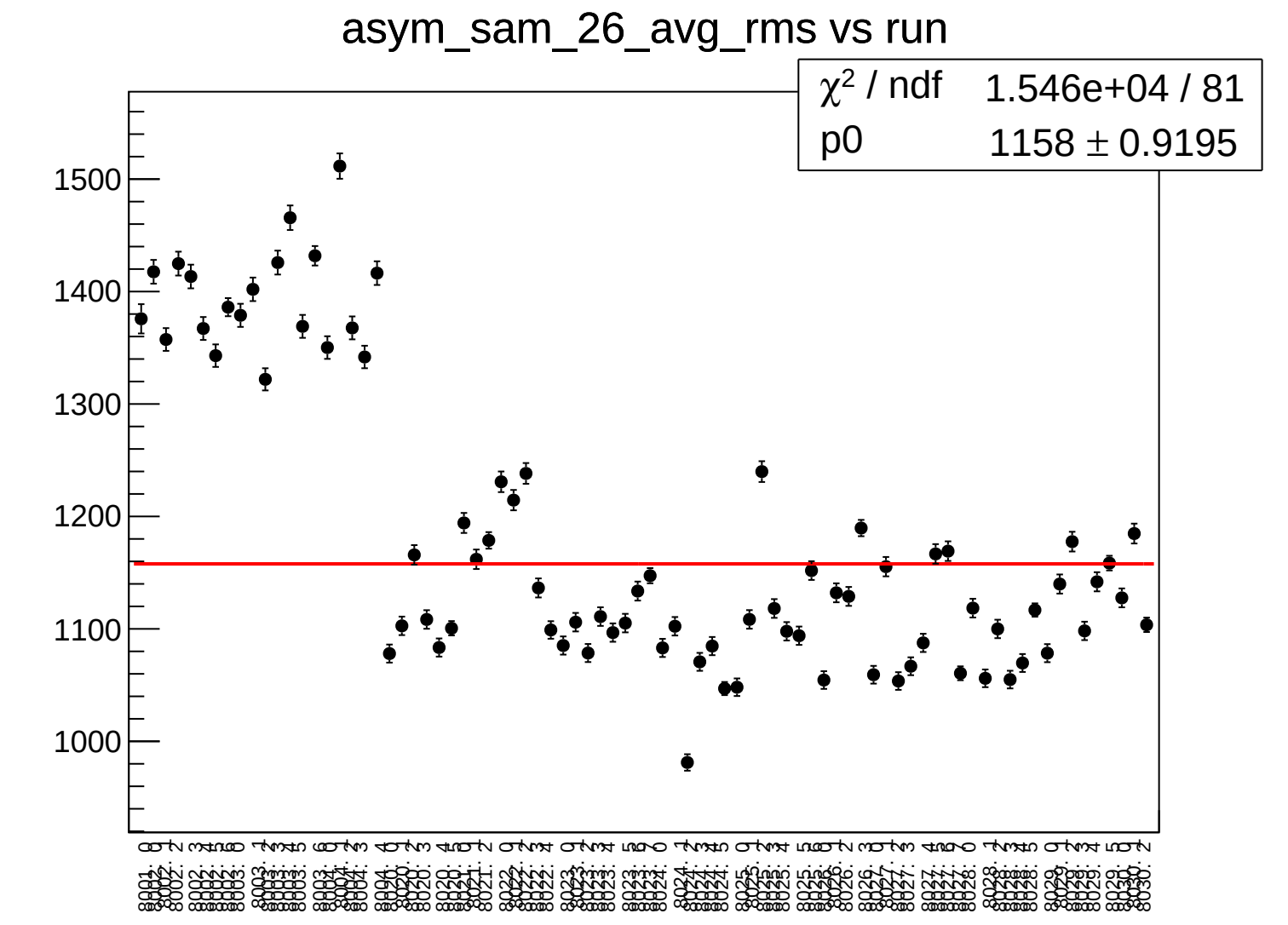

asym_sam_26_avg_correction_mean vs run
χ^2 / ndf 69.13 / 81
p0 233.5 ± 1282
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 82
Mean −2.23e+04
Std Dev 2.235e+04
2
1
0
−1
−2

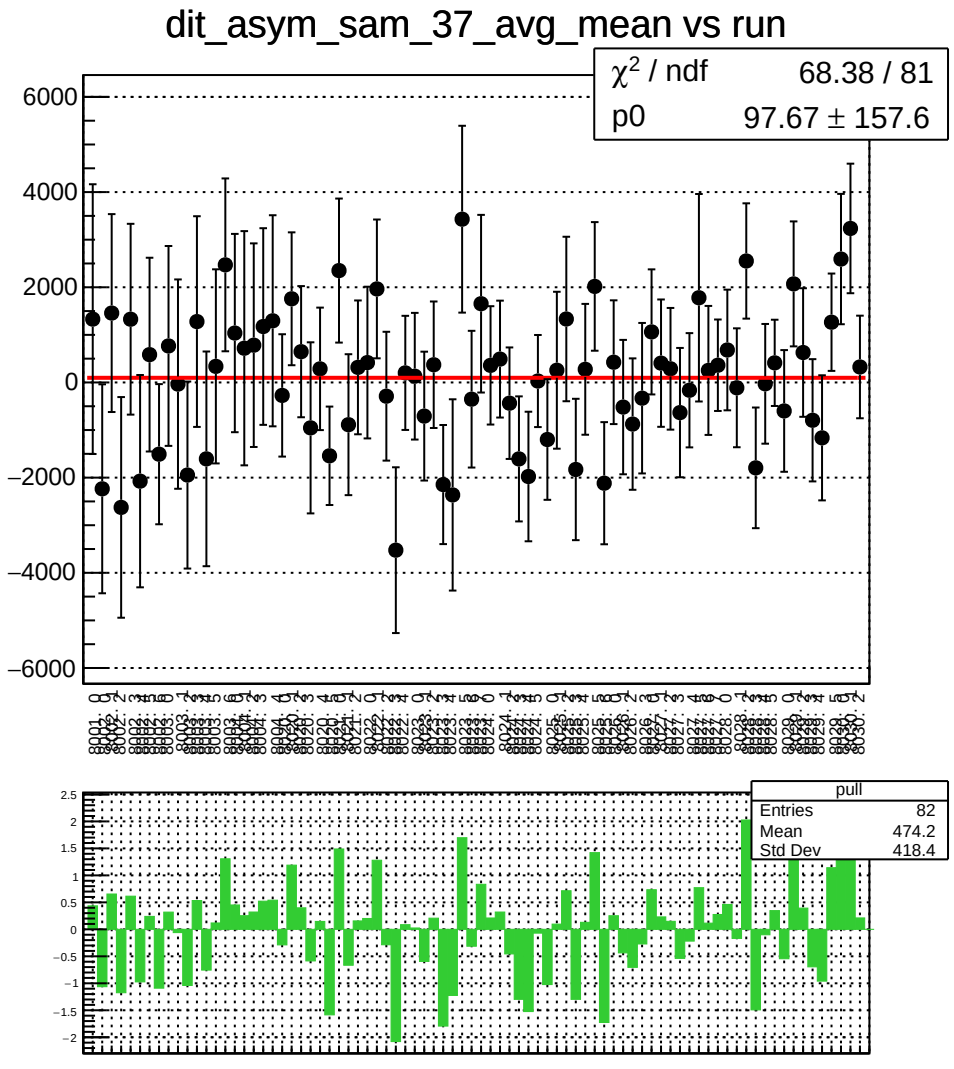

pull1D
Entries 82
Mean −0.0001134
Std Dev 0.9182
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

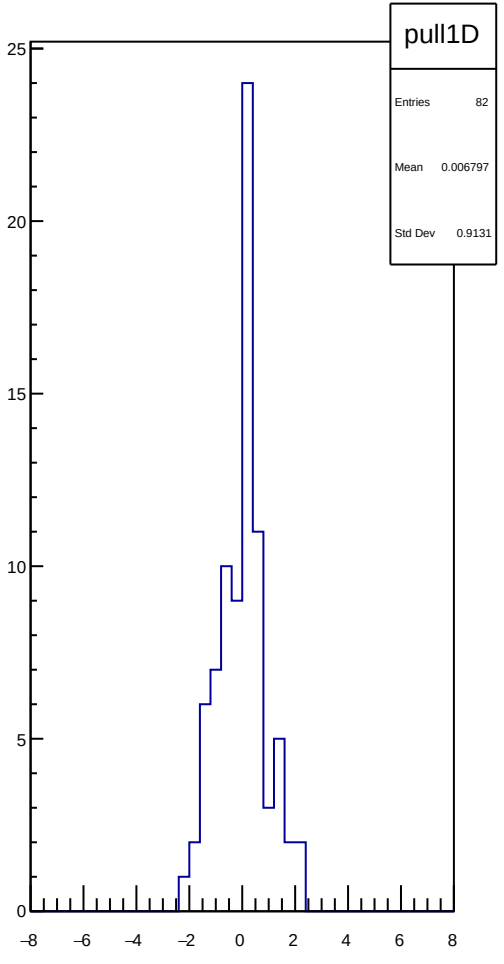

asym_sam_26_avg_correction_rms vs run
χ² / ndf 9790 / 81
p0 1143 ± 0.9062
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

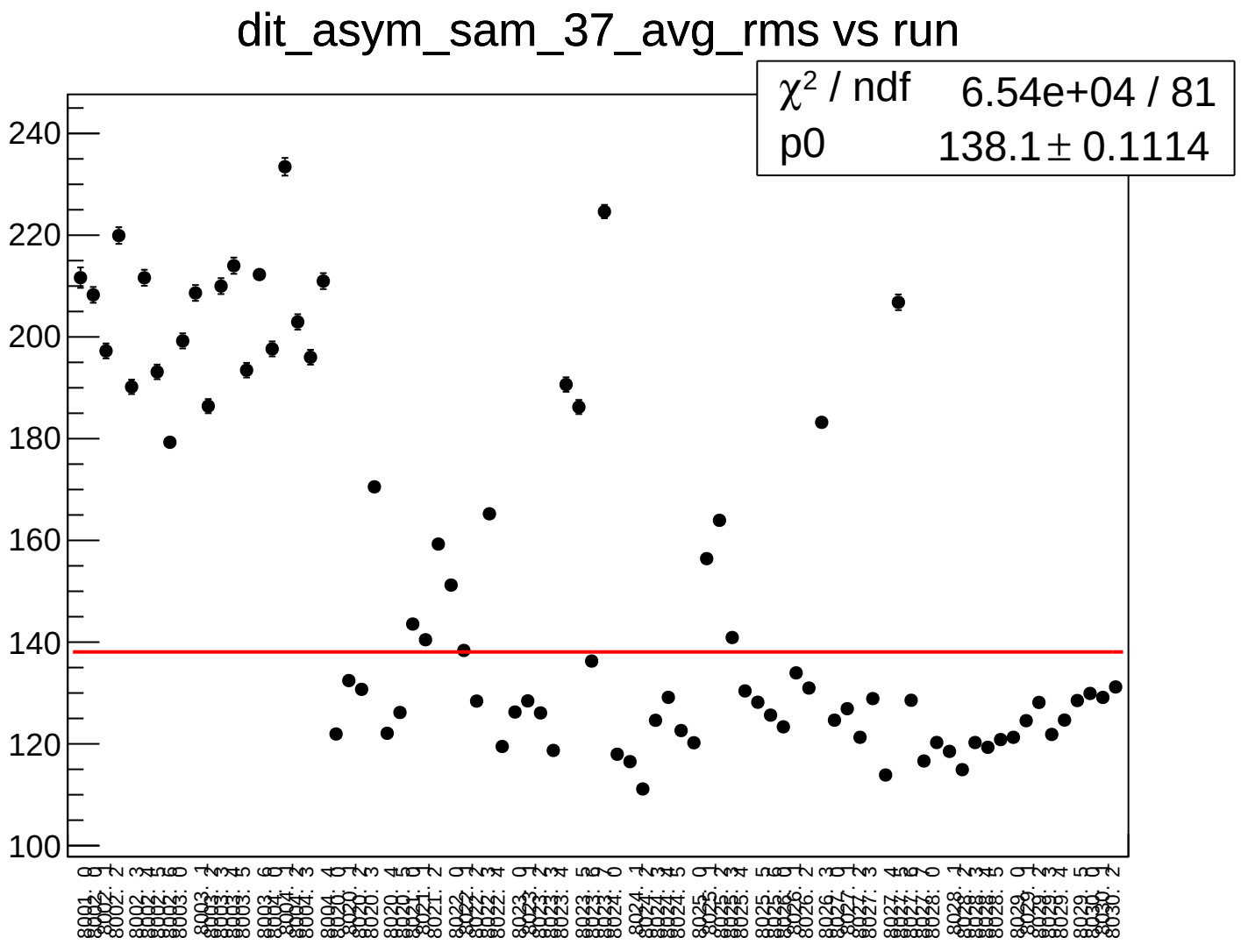

asym_sam_26_avg_mean vs run
χ² / ndf 70.52 / 81
p0 −94.65 ± 1300
pull
Entries 82
Mean 2222
Std Dev 2171

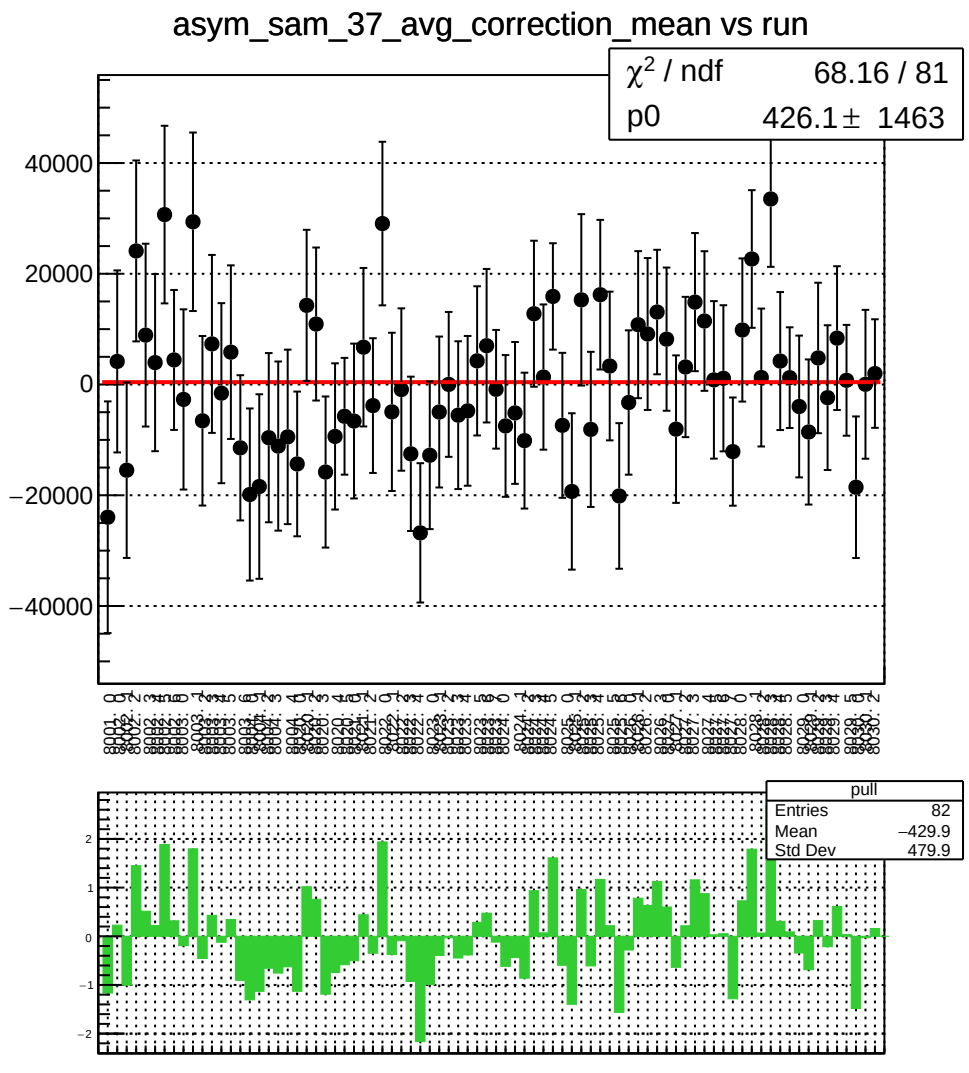

pull1D
Entries 82
Mean −0.0009749
Std Dev 0.9273

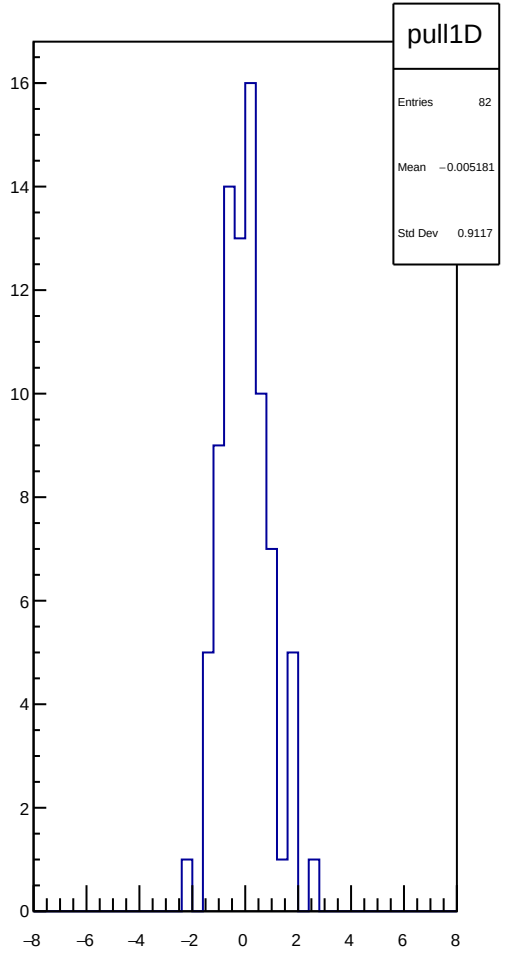

asym_sam_26_avg_rms vs run
χ² / ndf 1.546e+04 / 81
p0 1158 ± 0.9195
1500
1400
1300
1200
1100
1000

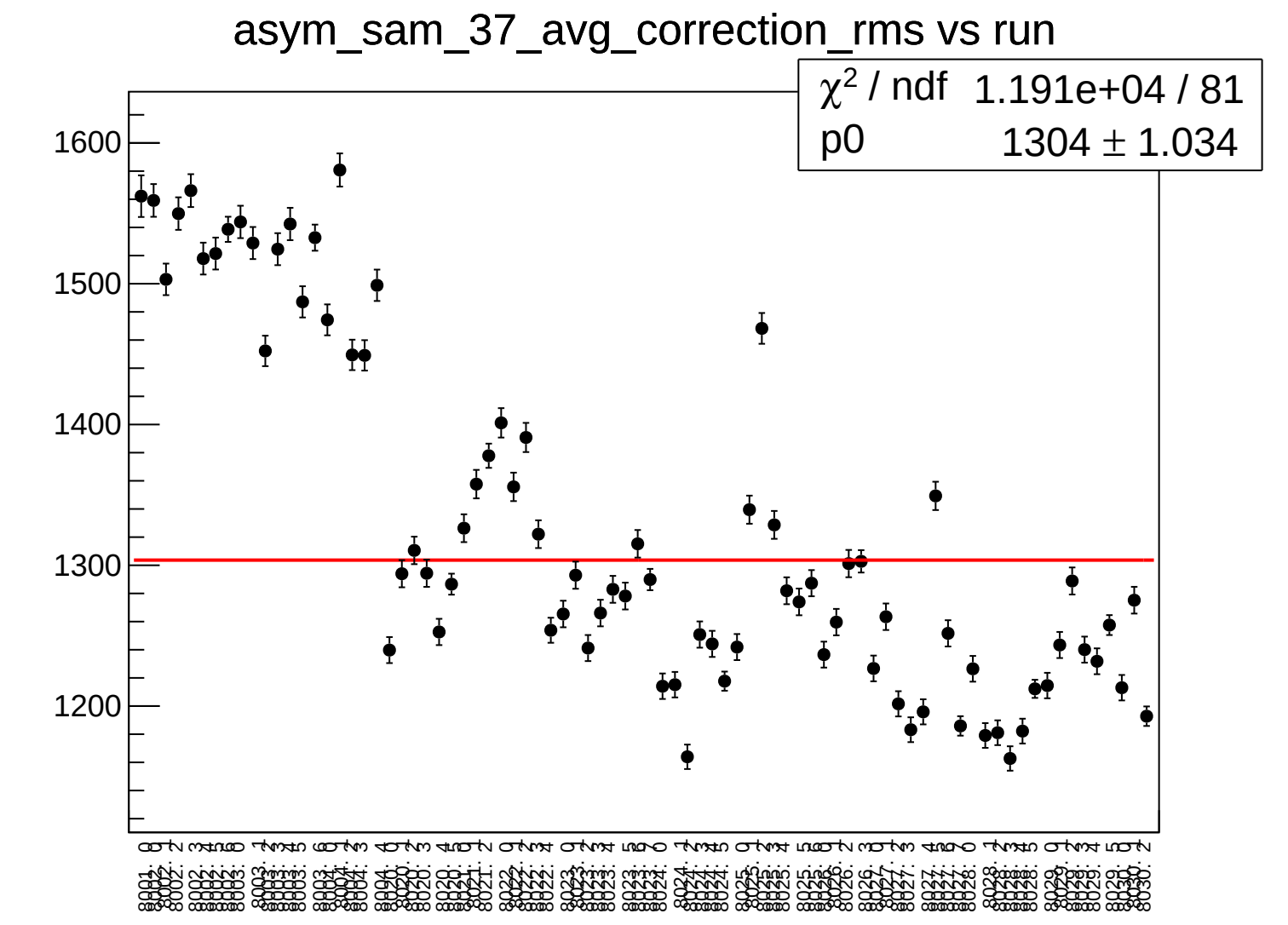

dit_asym_sam_37_avg_mean vs run
χ² / ndf 68.38 / 81
p0 97.67 ± 157.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean 474.2
Std Dev 418.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

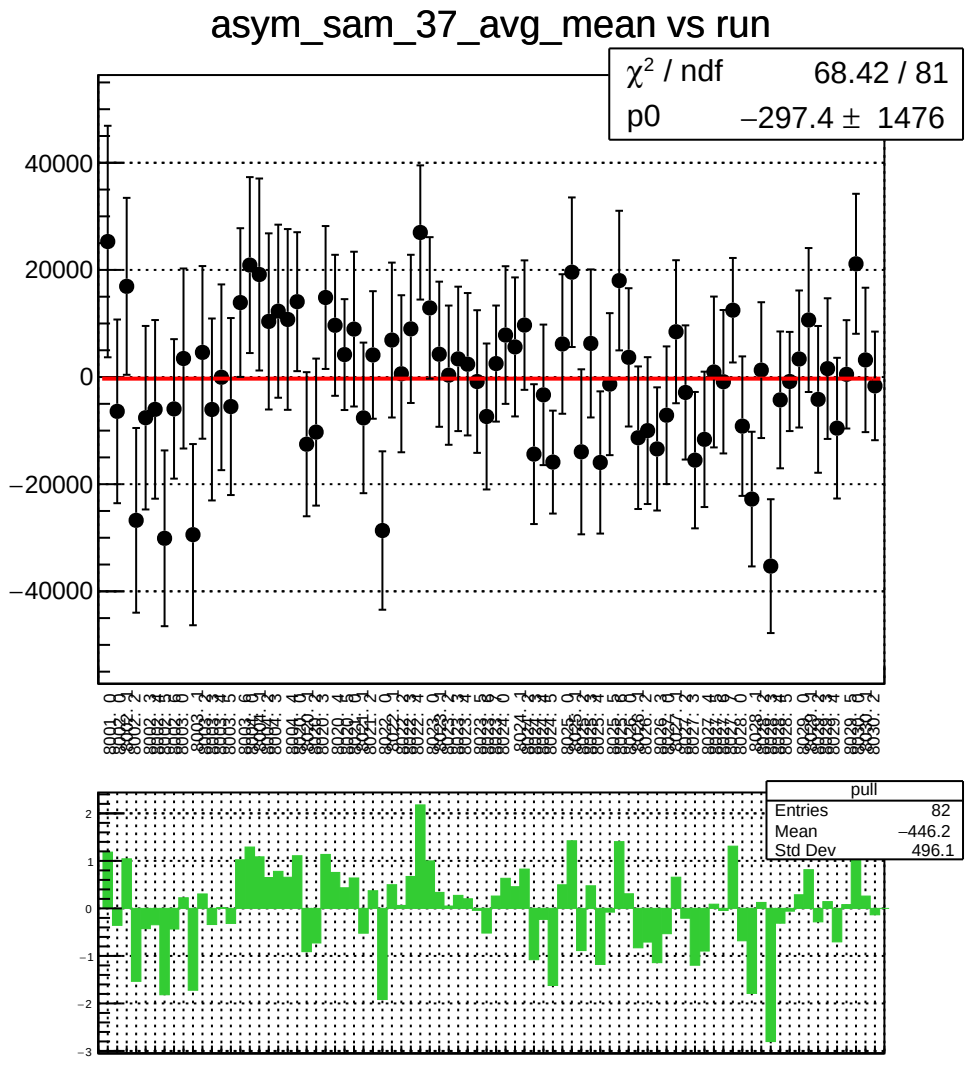

pull1D
Entries 82
Mean 0.006797
Std Dev 0.9131
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

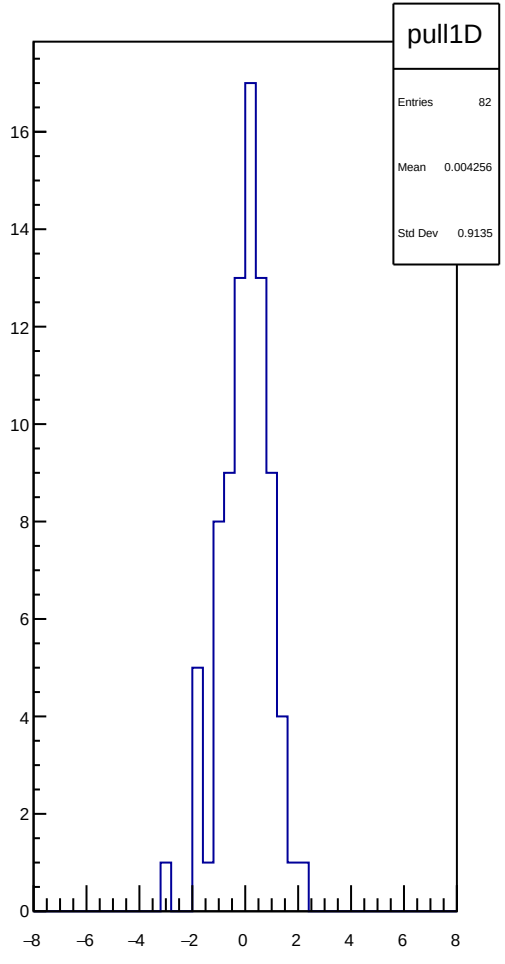

dit_asym_sam_37_avg_rms vs run
χ² / ndf 6.54e+04 / 81
p0 138.1 ± 0.1114
240
220
200
180
160
140
120
100

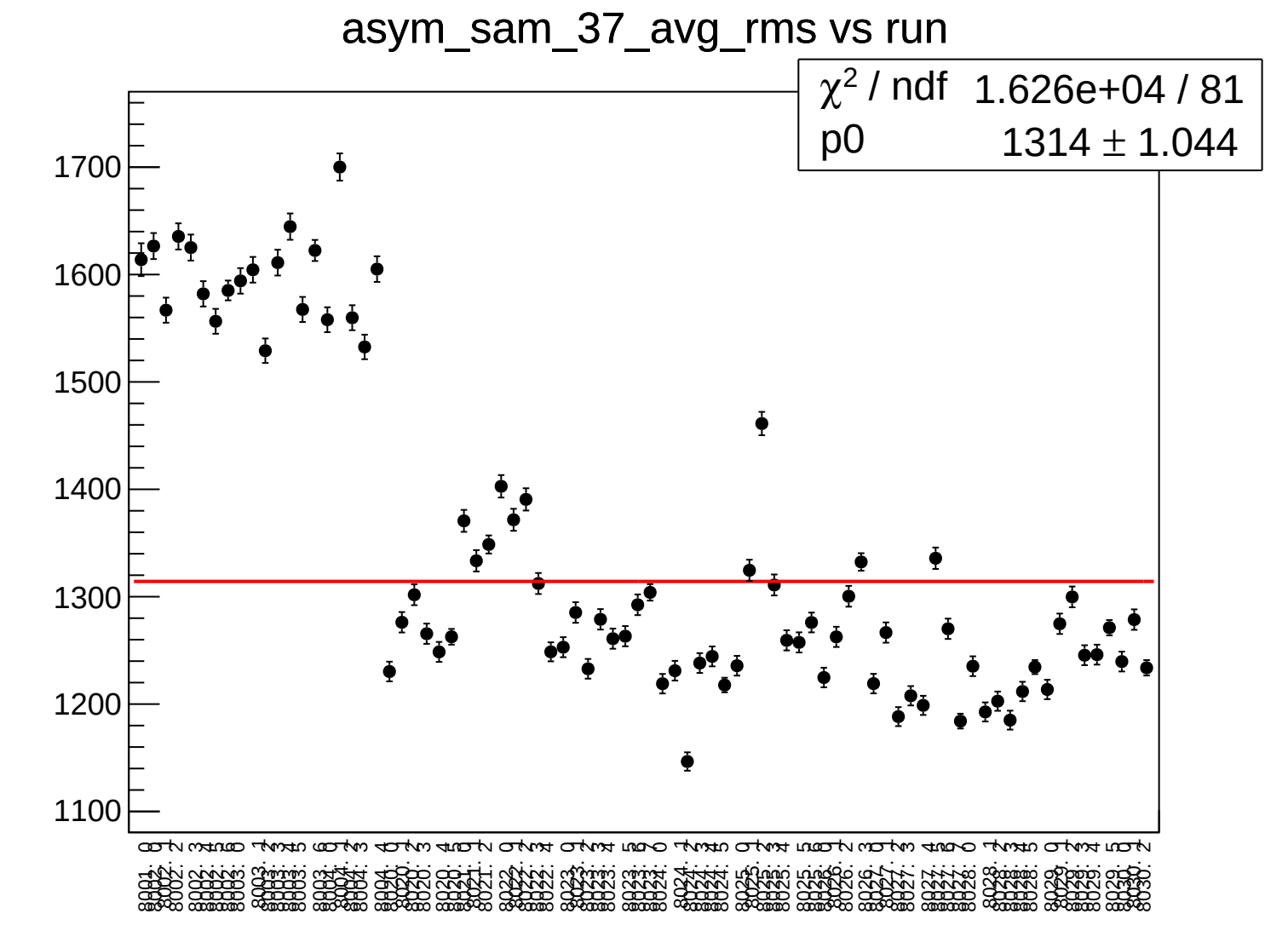

asym_sam_37_avg_correction_mean vs run
χ² / ndf 68.16 / 81
p0 426.1 ± 1463
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −429.9
Std Dev 479.9
2
1
0
−1
−2

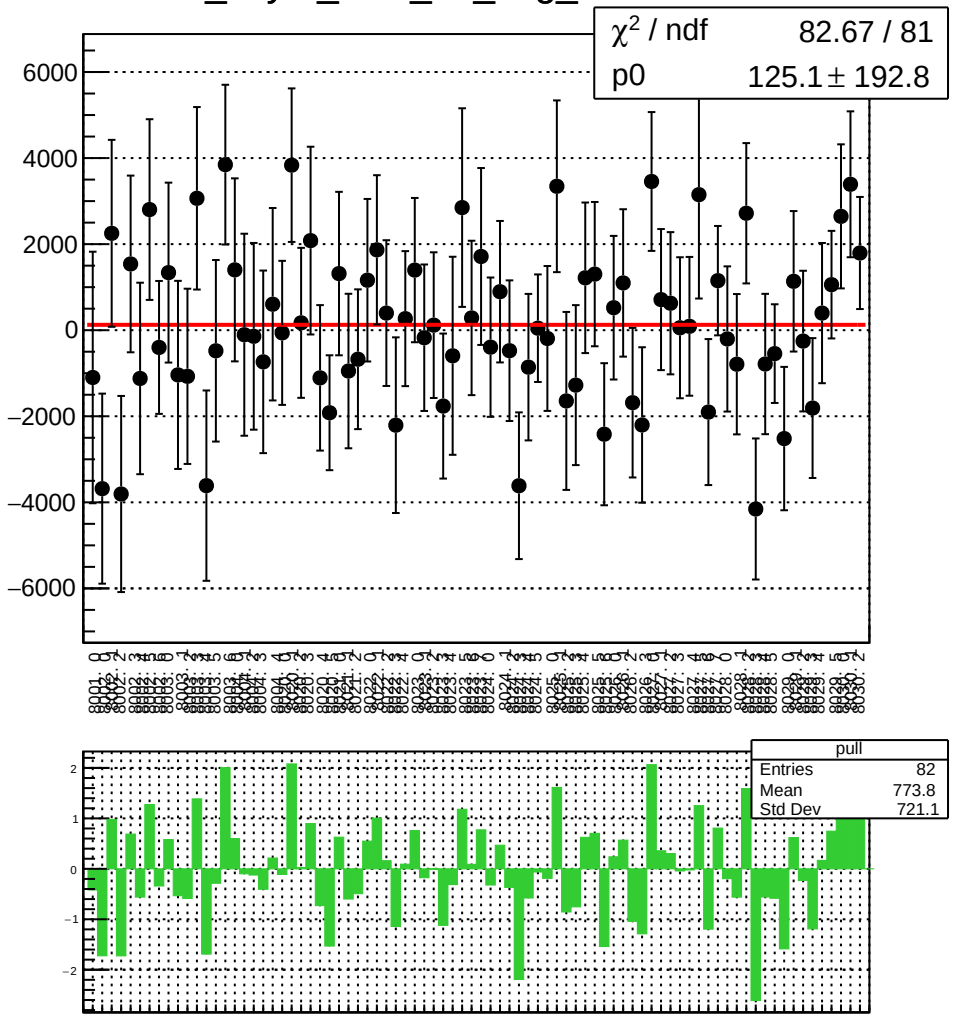

pull1D
Entries 82
Mean −0.005181
Std Dev 0.9117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

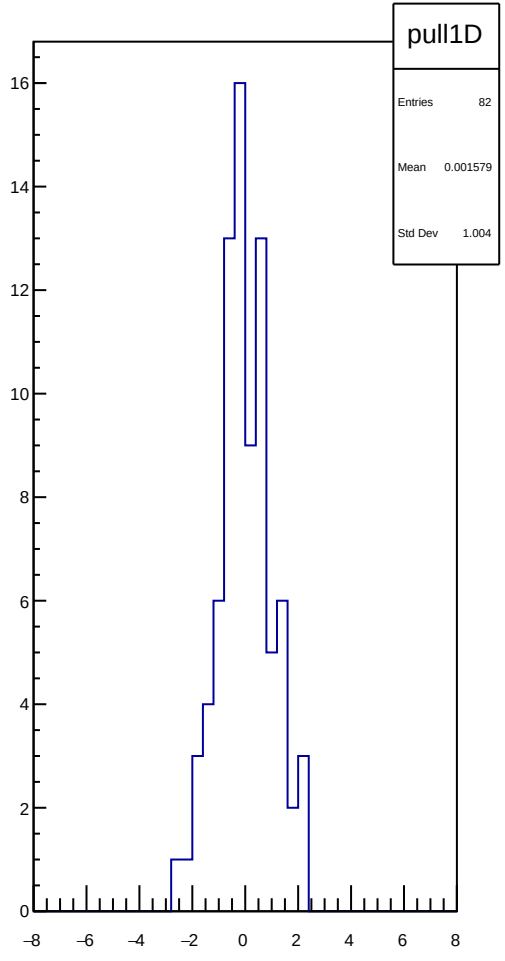

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1.191e+04 / 81
p0 1304 ± 1.034
1600
1500
1400
1300
1200

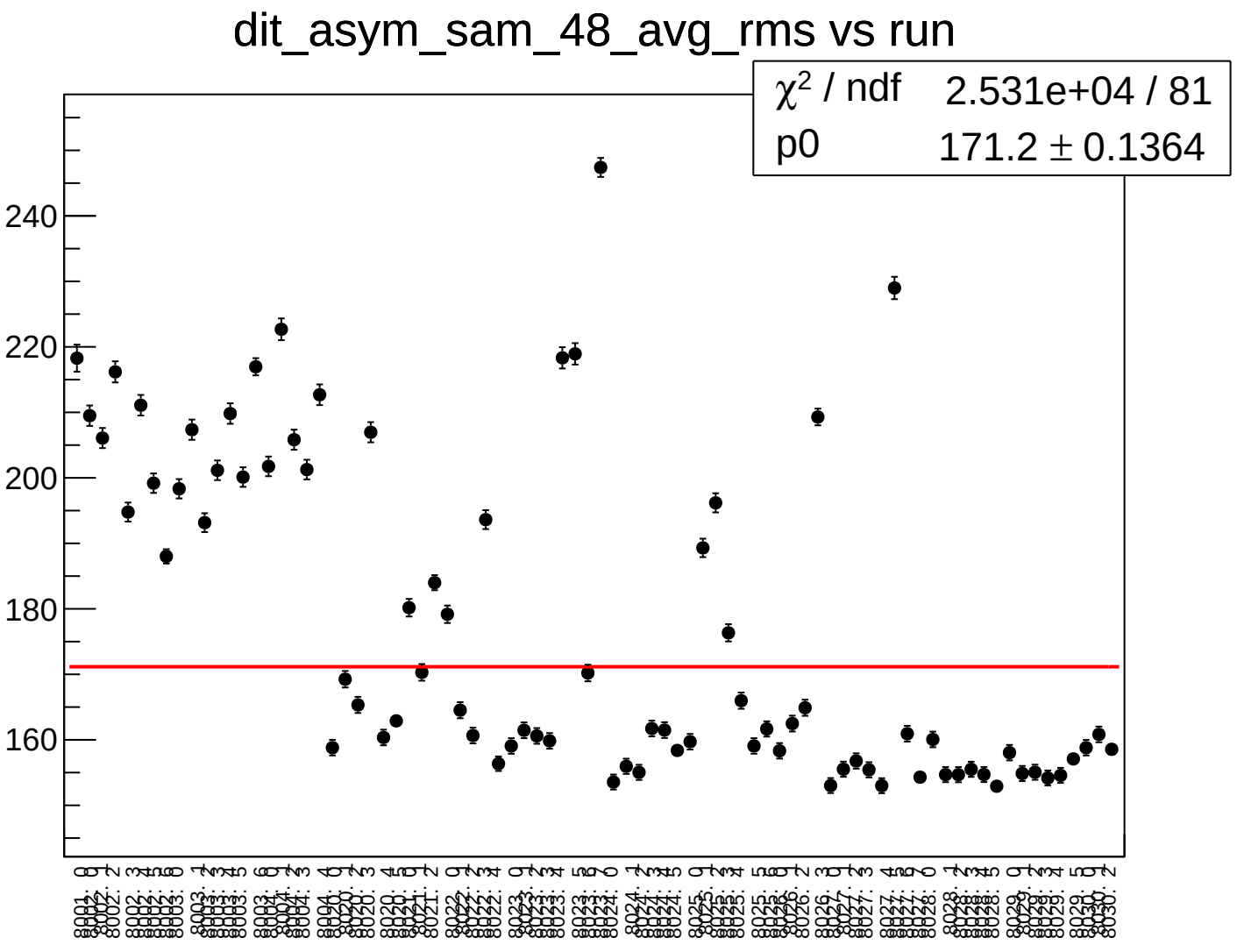

asym_sam_37_avg_mean vs run
χ² / ndf 68.42 / 81
p0 −297.4 ± 1476
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −446.2
Std Dev 496.1
2
1
0
−1
−2
−3

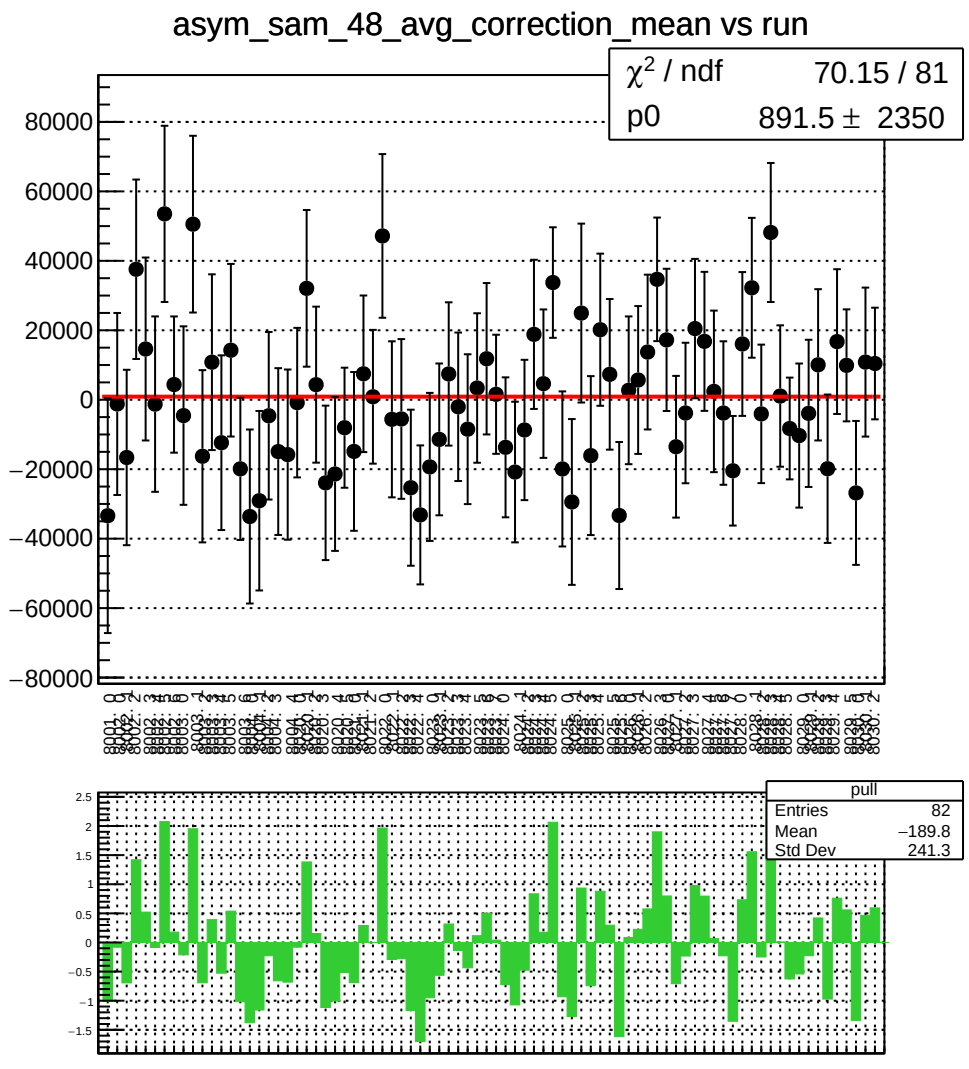

pull1D
Entries 82
Mean 0.004256
Std Dev 0.9135
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

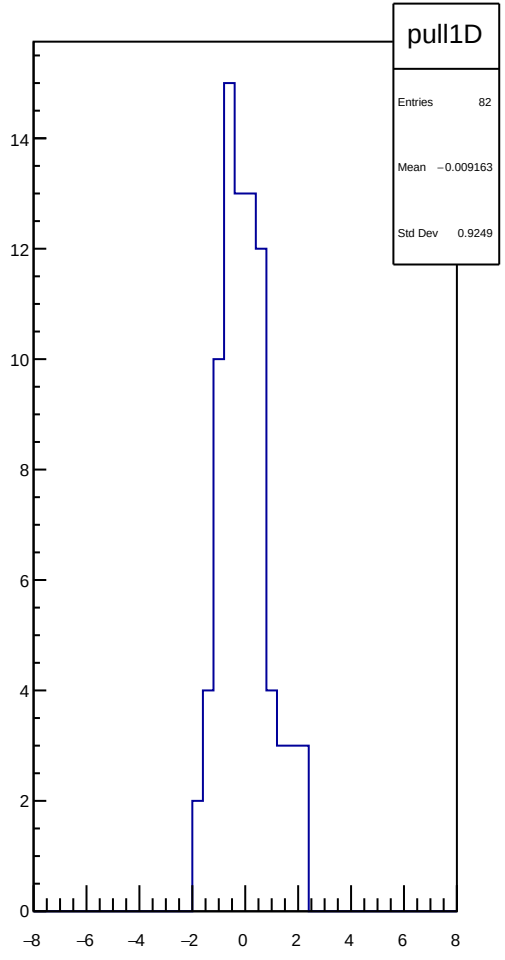

asym_sam_37_avg_rms vs run
χ^2 / ndf 1.626e+04 / 81
p0 1314 ± 1.044
1700
1600
1500
1400
1300
1200
1100

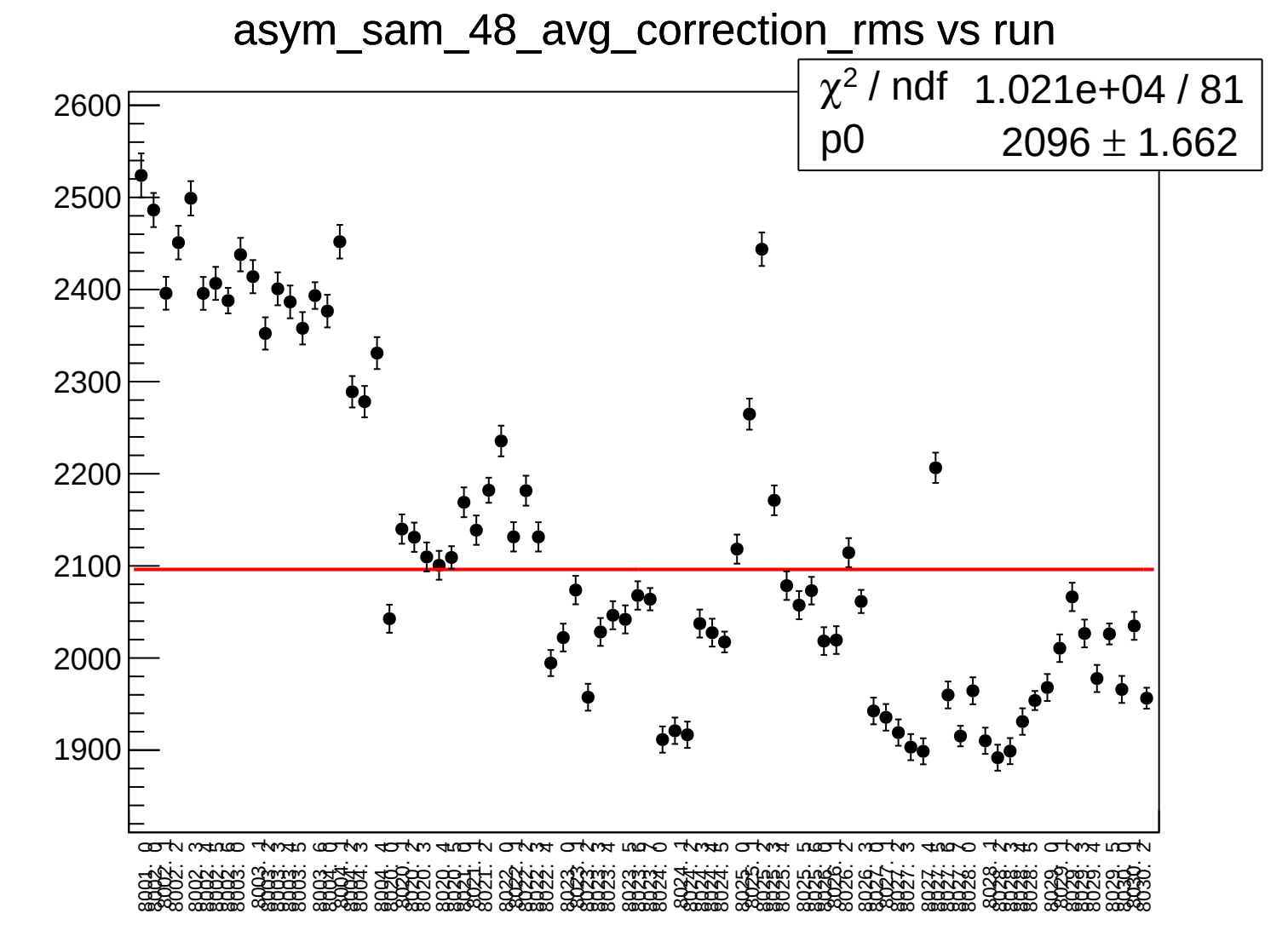

dit_asym_sam_48_avg_mean vs run
χ² / ndf 82.67 / 81
p0 125.1 ± 192.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean 773.8
Std Dev 721.1
2
1
0
−1
−2

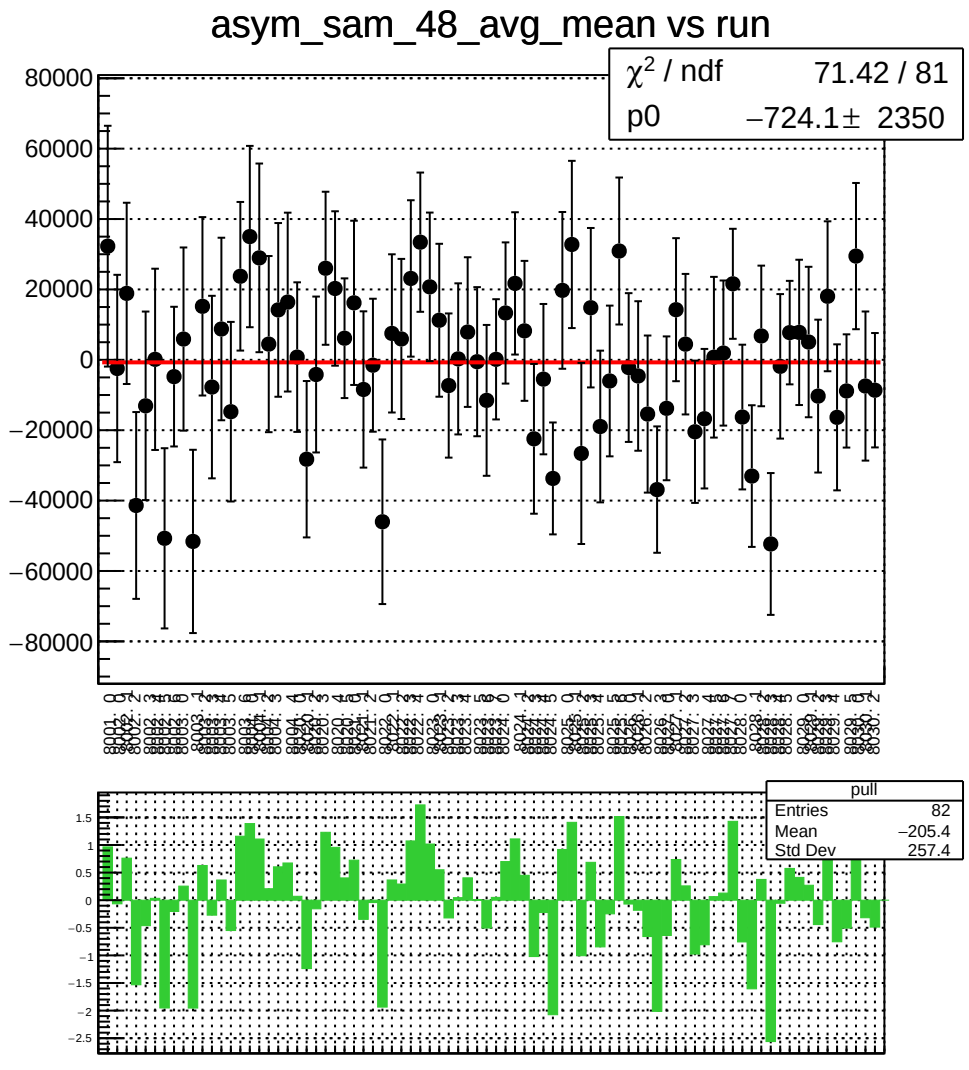

pull1D
Entries 82
Mean 0.001579
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

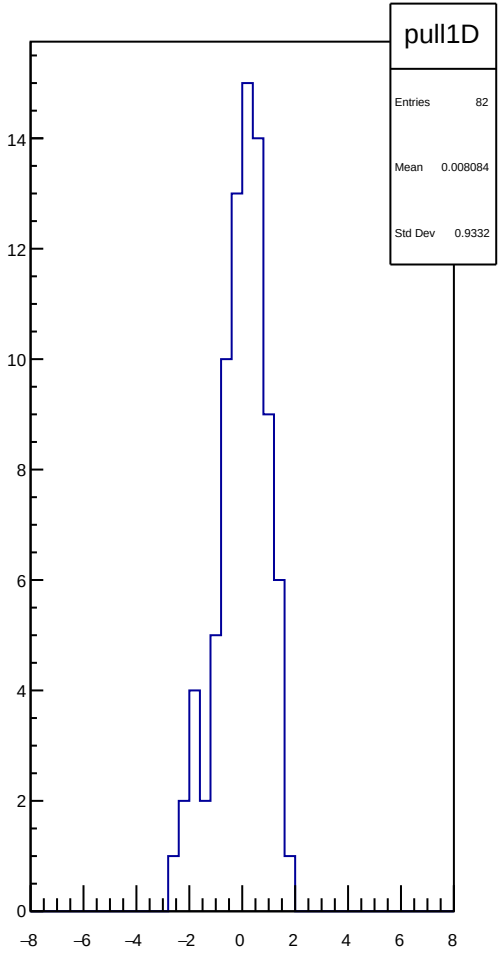

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 2.531e+04 / 81
p0 171.2 ± 0.1364
240
220
200
180
160

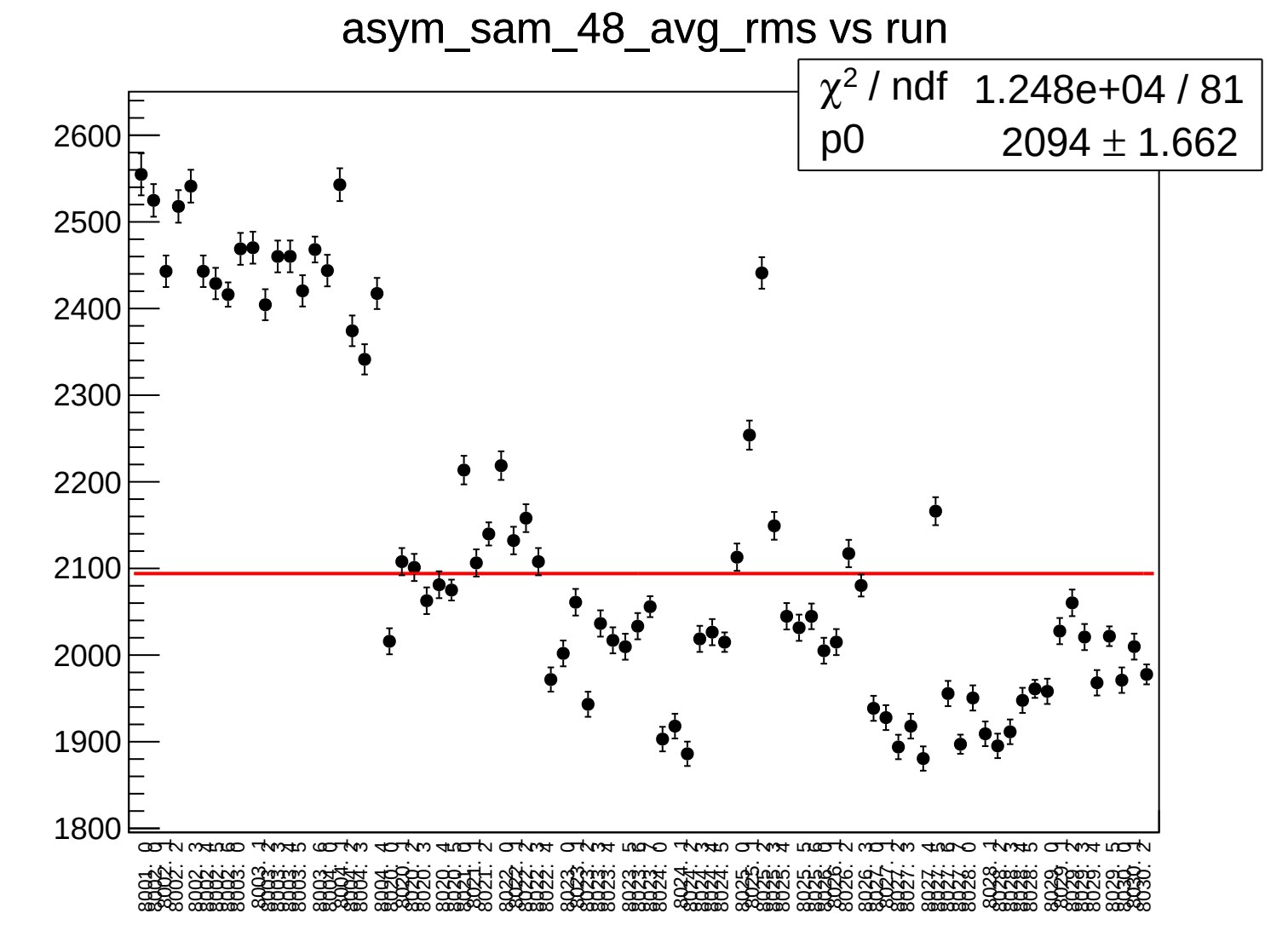

asym_sam_48_avg_correction_mean vs run
χ² / ndf 70.15 / 81
p0 891.5 ± 2350
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 82
Mean −189.8
Std Dev 241.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

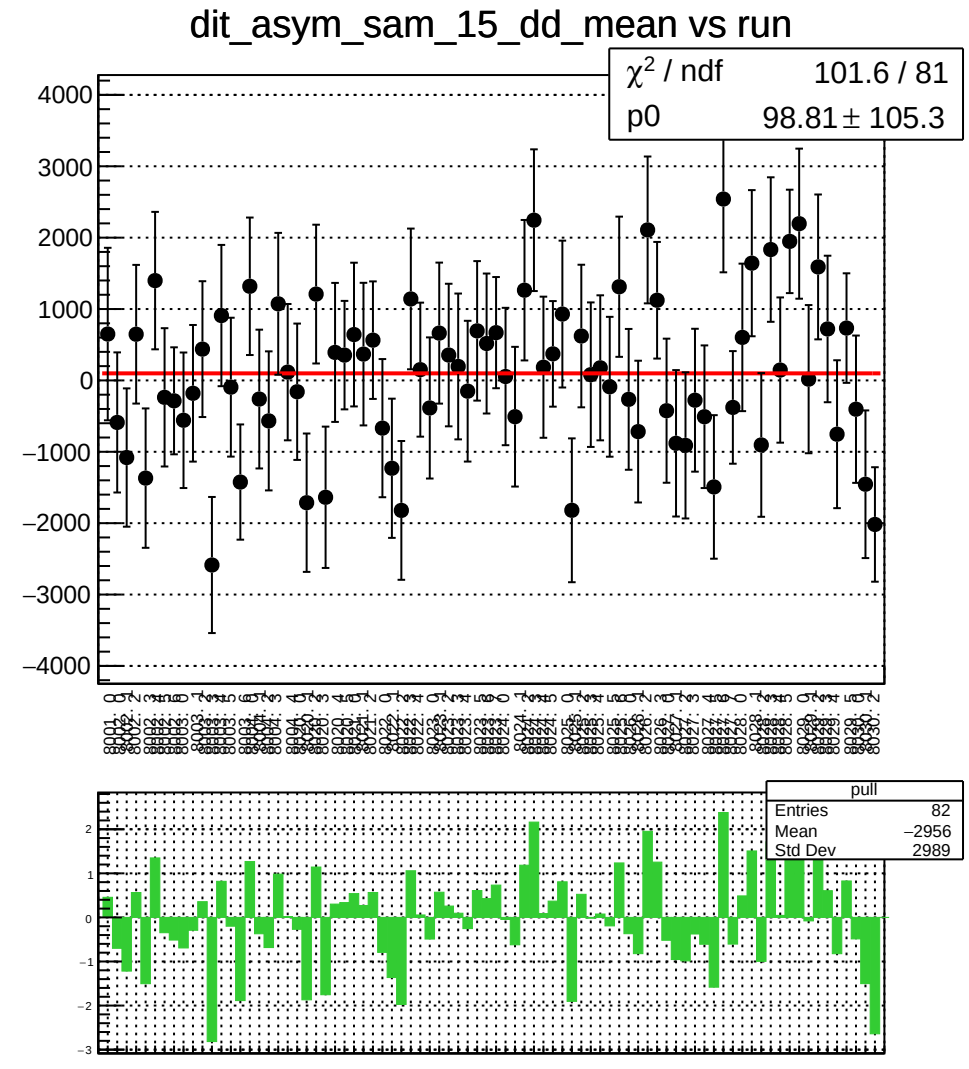

pull1D
Entries 82
Mean −0.009163
Std Dev 0.9249
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

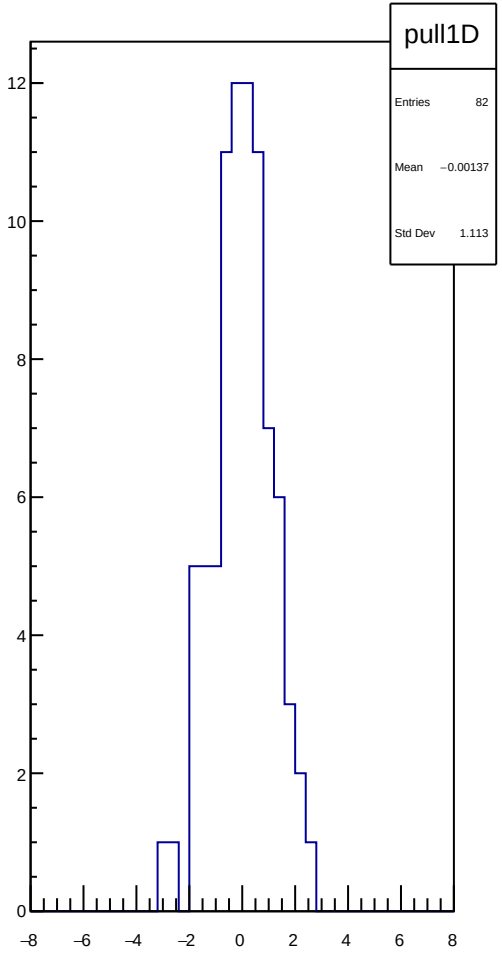

asym_sam_48_avg_correction_rms vs run
χ² / ndf 1.021e+04 / 81
p0 2096 ± 1.662
2600
2500
2400
2300
2200
2100
2000
1900

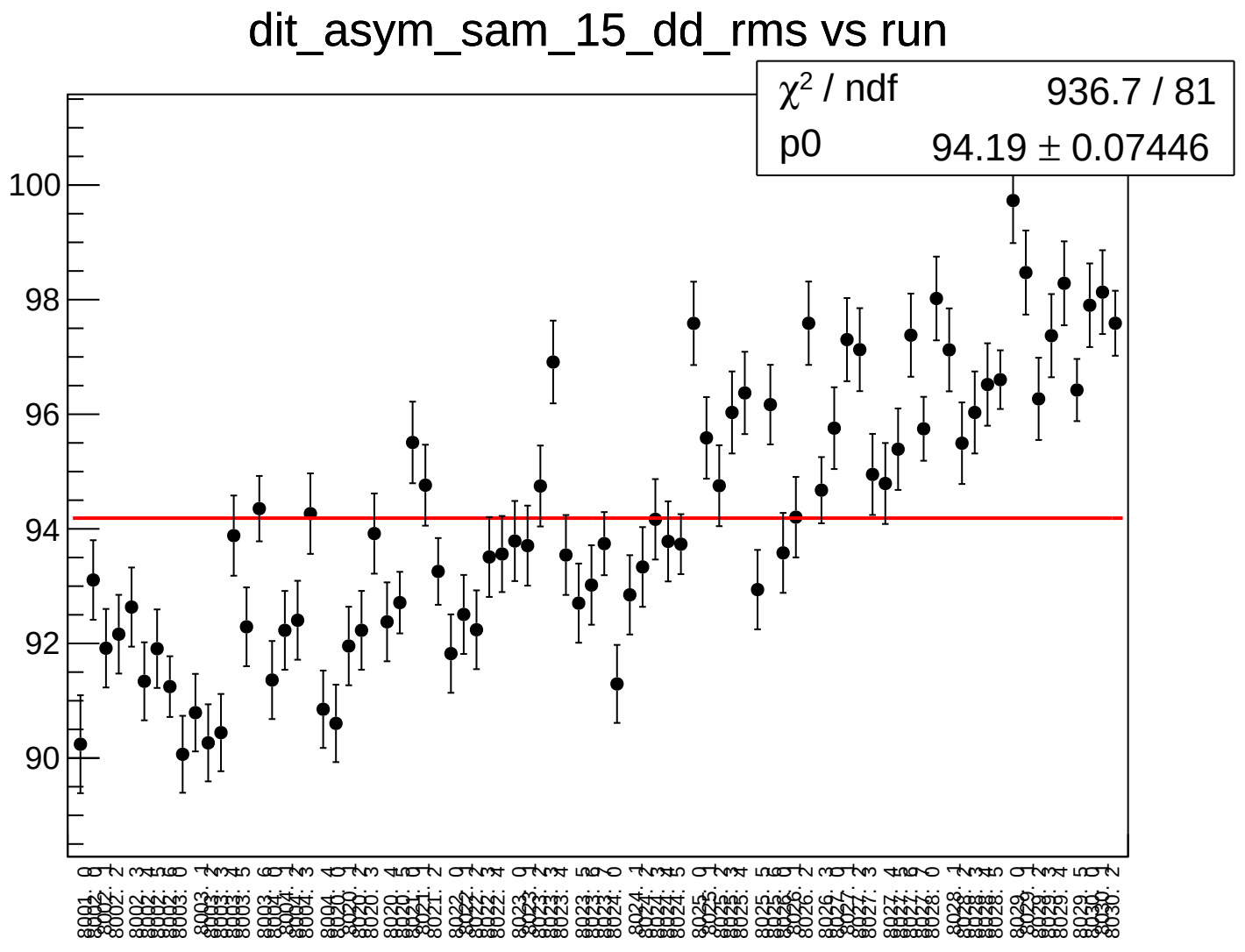

asym_sam_48_avg_mean vs run
χ^2 / ndf 71.42 / 81
p0 −724.1± 2350
pull
Entries 82
Mean −205.4
Std Dev 257.4

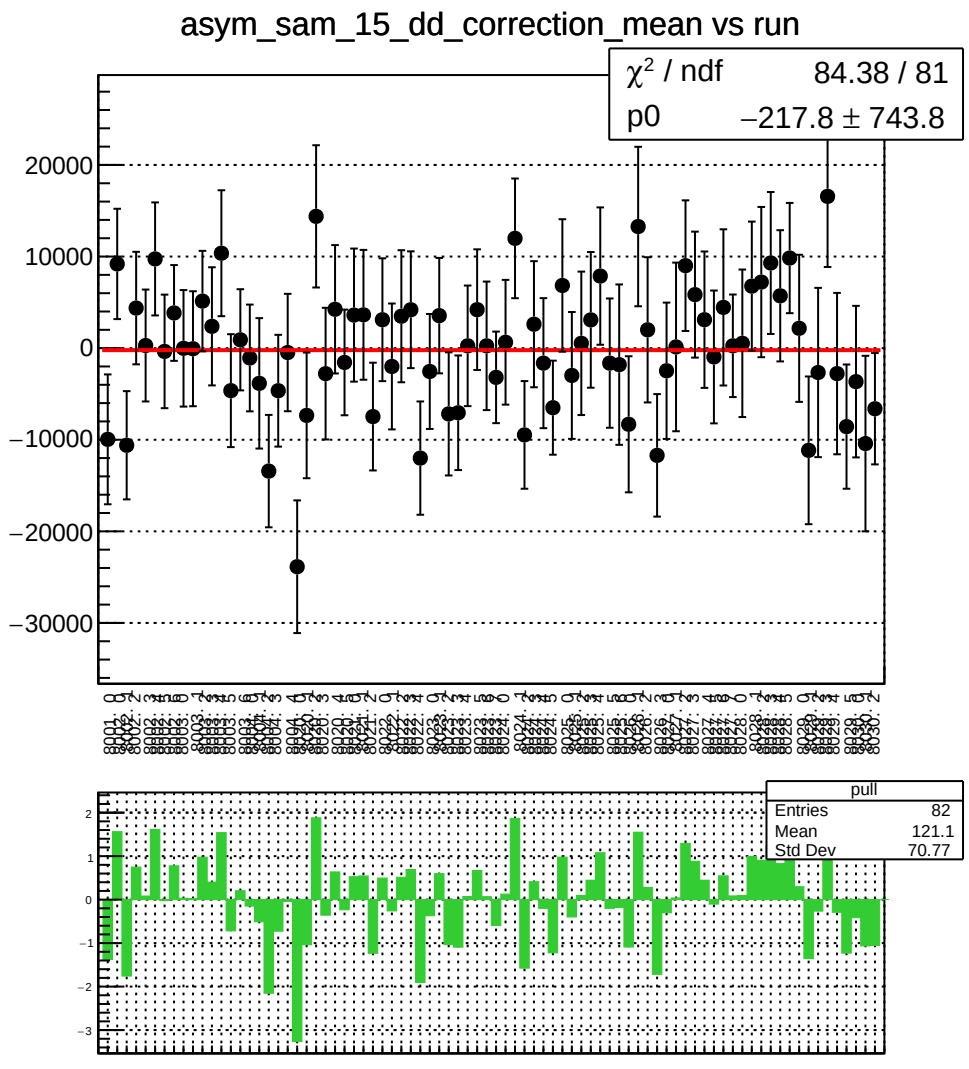

pull1D
Entries 82
Mean 0.008084
Std Dev 0.9332

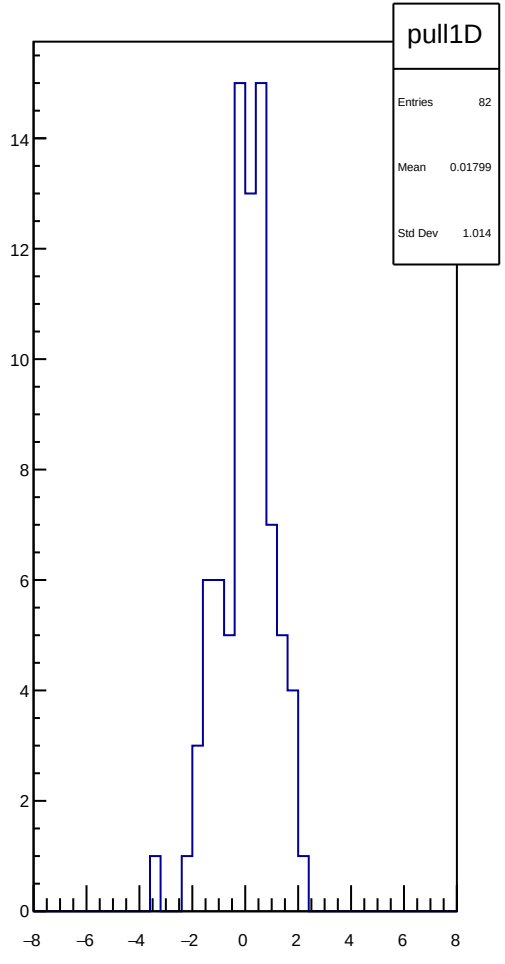

asym_sam_48_avg_rms vs run
χ² / ndf 1.248e+04 / 81
p0 2094 ± 1.662
2600
2500
2400
2300
2200
2100
2000
1900
1800

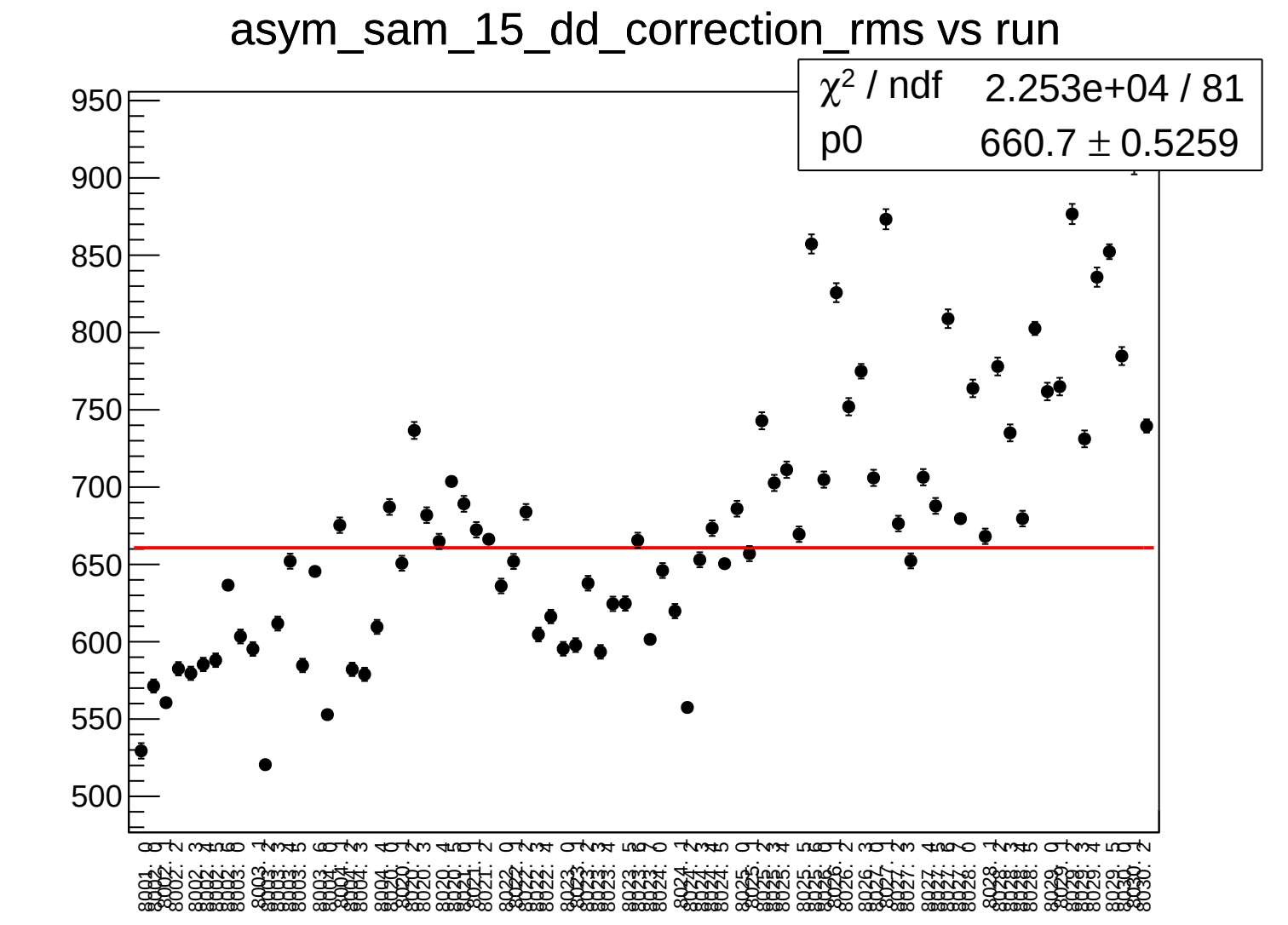

dit_asym_sam_15_dd_mean vs run
χ² / ndf 101.6 / 81
p0 98.81 ± 105.3
pull
Entries 82
Mean −2956
Std Dev 2989

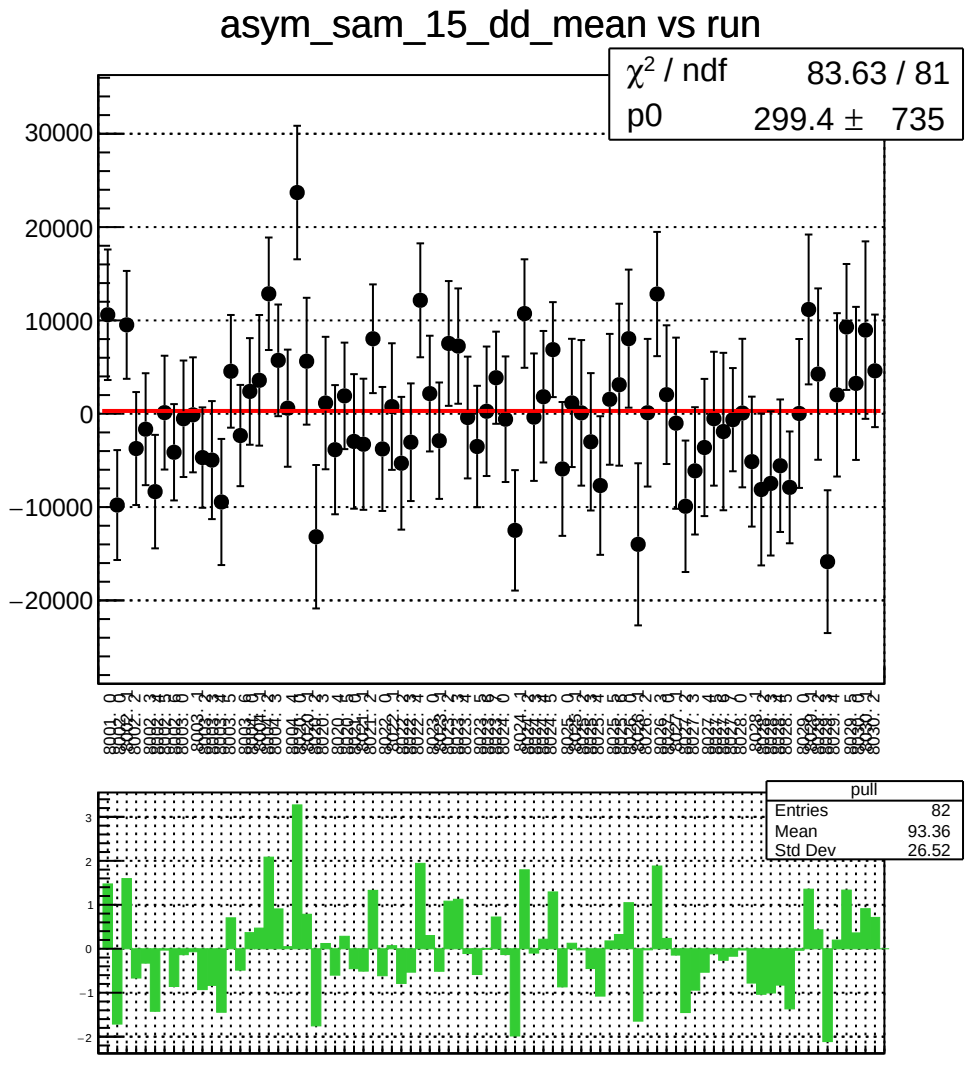

pull1D
Entries 82
Mean −0.00137
Std Dev 1.113

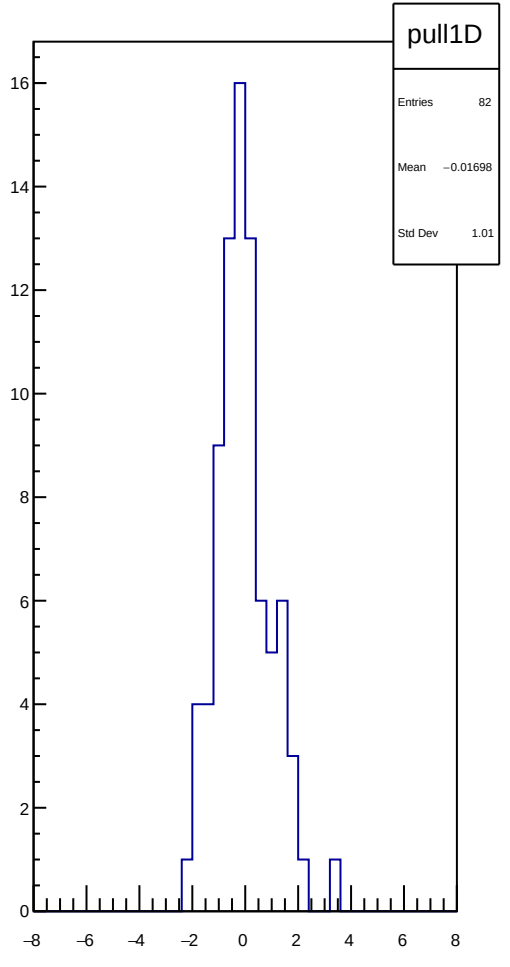

dit_asym_sam_15_dd_rms vs run
χ² / ndf 936.7 / 81
p0 94.19 ± 0.07446
100
98
96
94
92
90

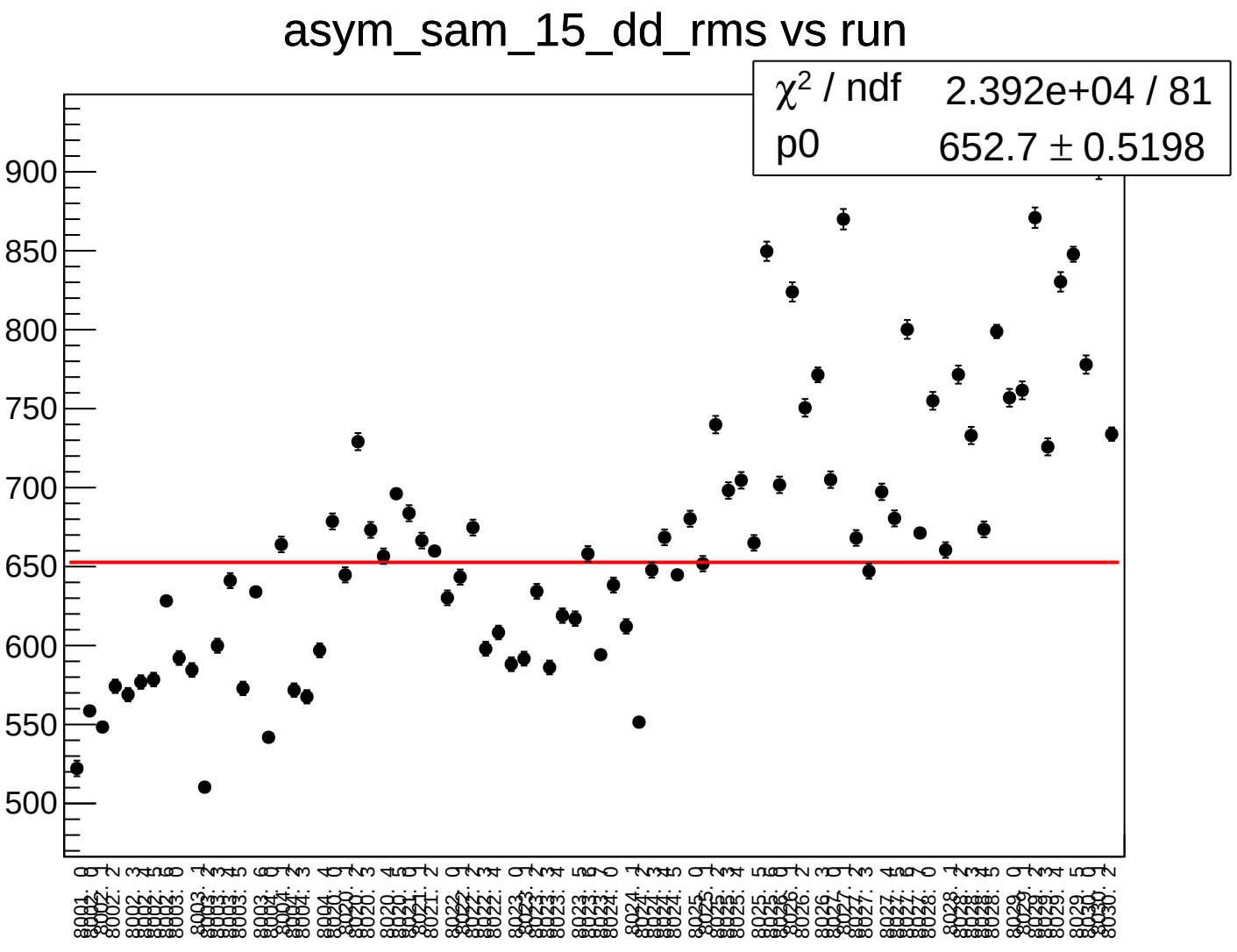

asym_sam_15_dd_correction_mean vs run
χ² / ndf 84.38 / 81
p0 −217.8 ± 743.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean 121.1
Std Dev 70.77
2
1
0
−1
−2
−3

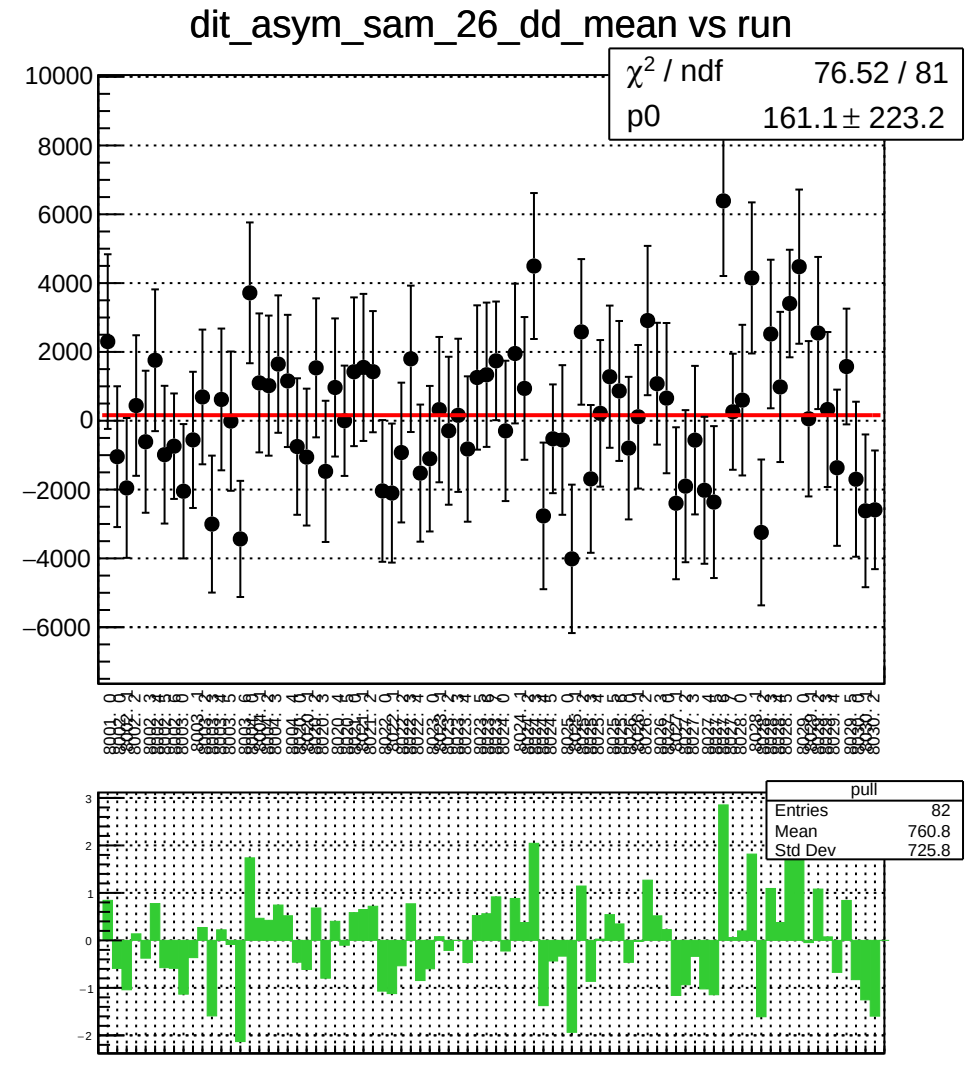

pull1D
Entries 82
Mean 0.01799
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

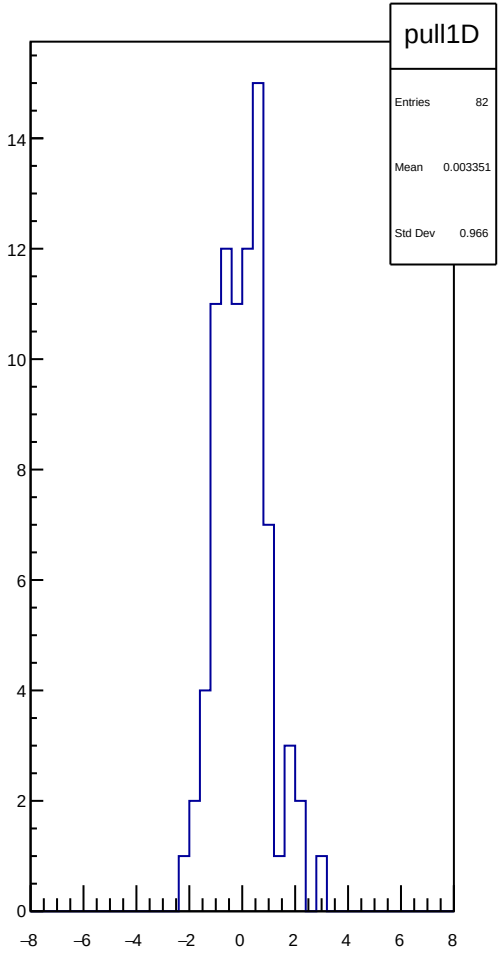

asym_sam_15_dd_correction_rms vs run
χ² / ndf 2.253e+04 / 81
p0 660.7 ± 0.5259
950
900
850
800
750
700
650
600
550
500

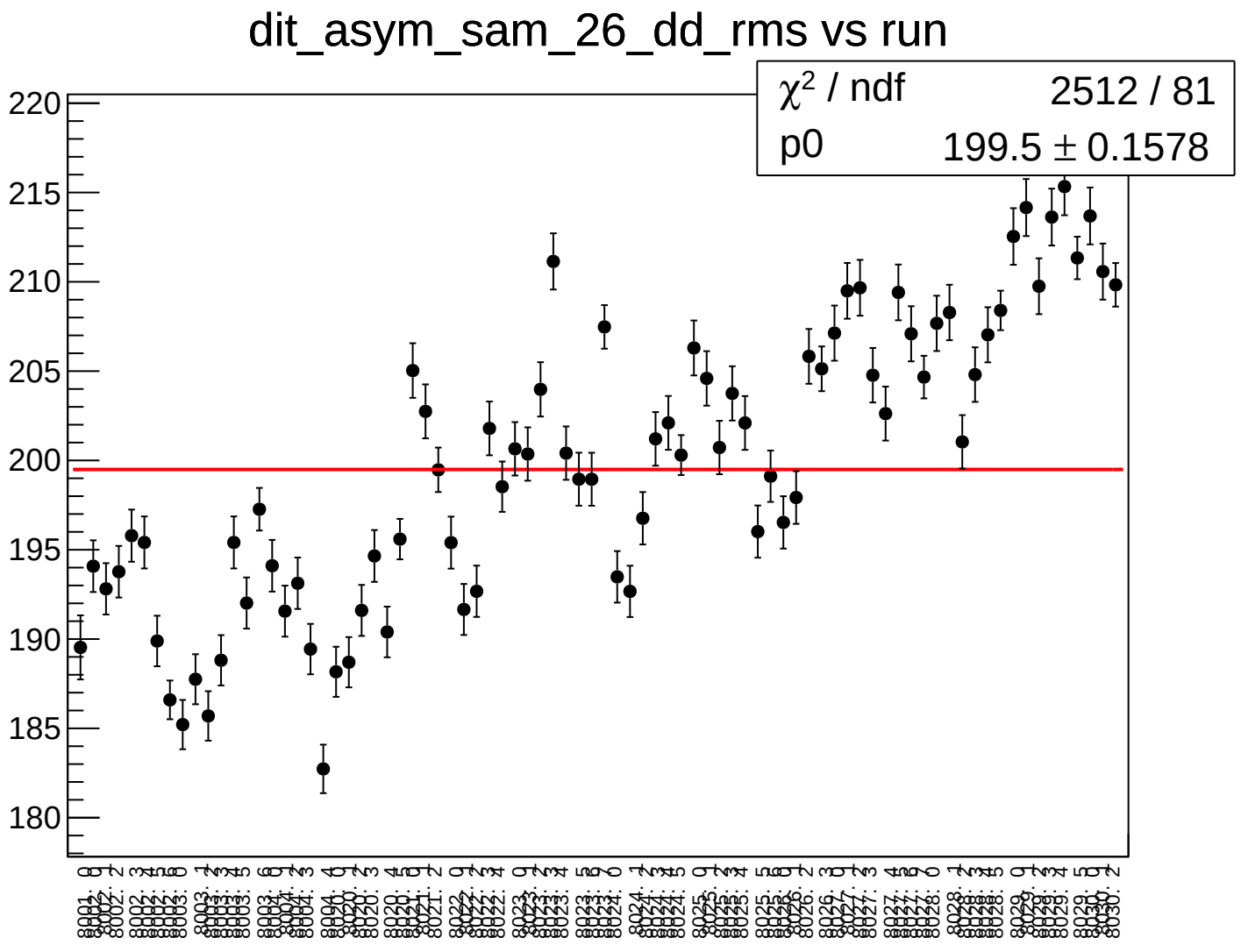

asym_sam_15_dd_mean vs run
χ² / ndf 83.63 / 81
p0 299.4 ± 735
pull
Entries 82
Mean 93.36
Std Dev 26.52

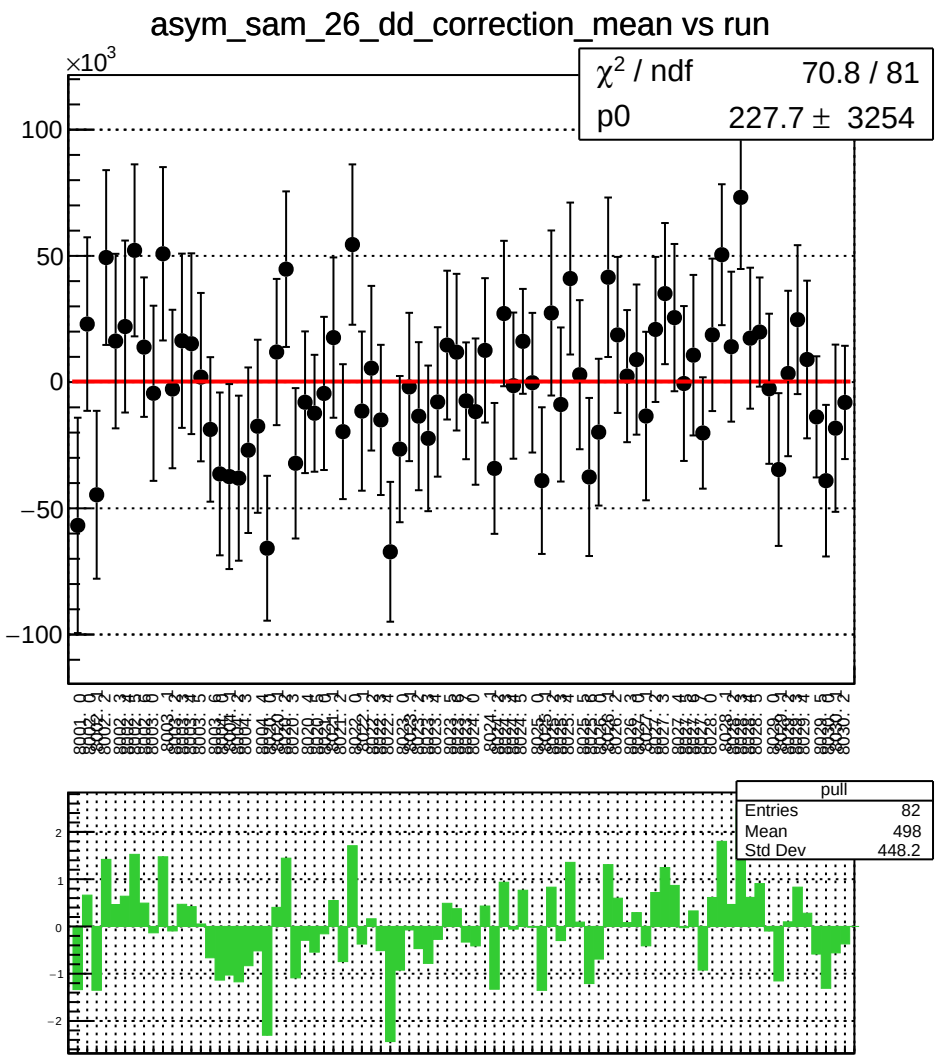

pull1D
Entries 82
Mean −0.01698
Std Dev 1.01

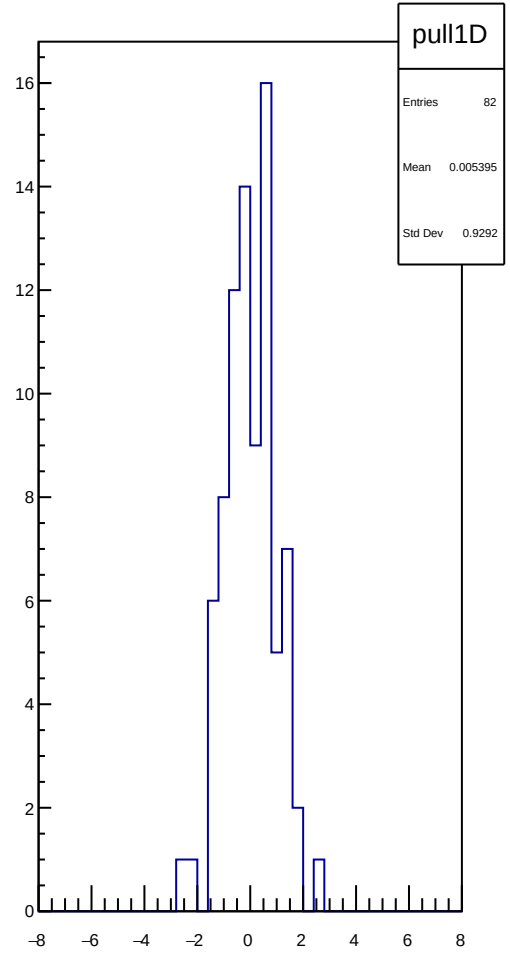

asym_sam_15_dd_rms vs run
χ² / ndf 2.392e+04 / 81
p0 652.7 ± 0.5198
900
850
800
750
700
650
600
550
500

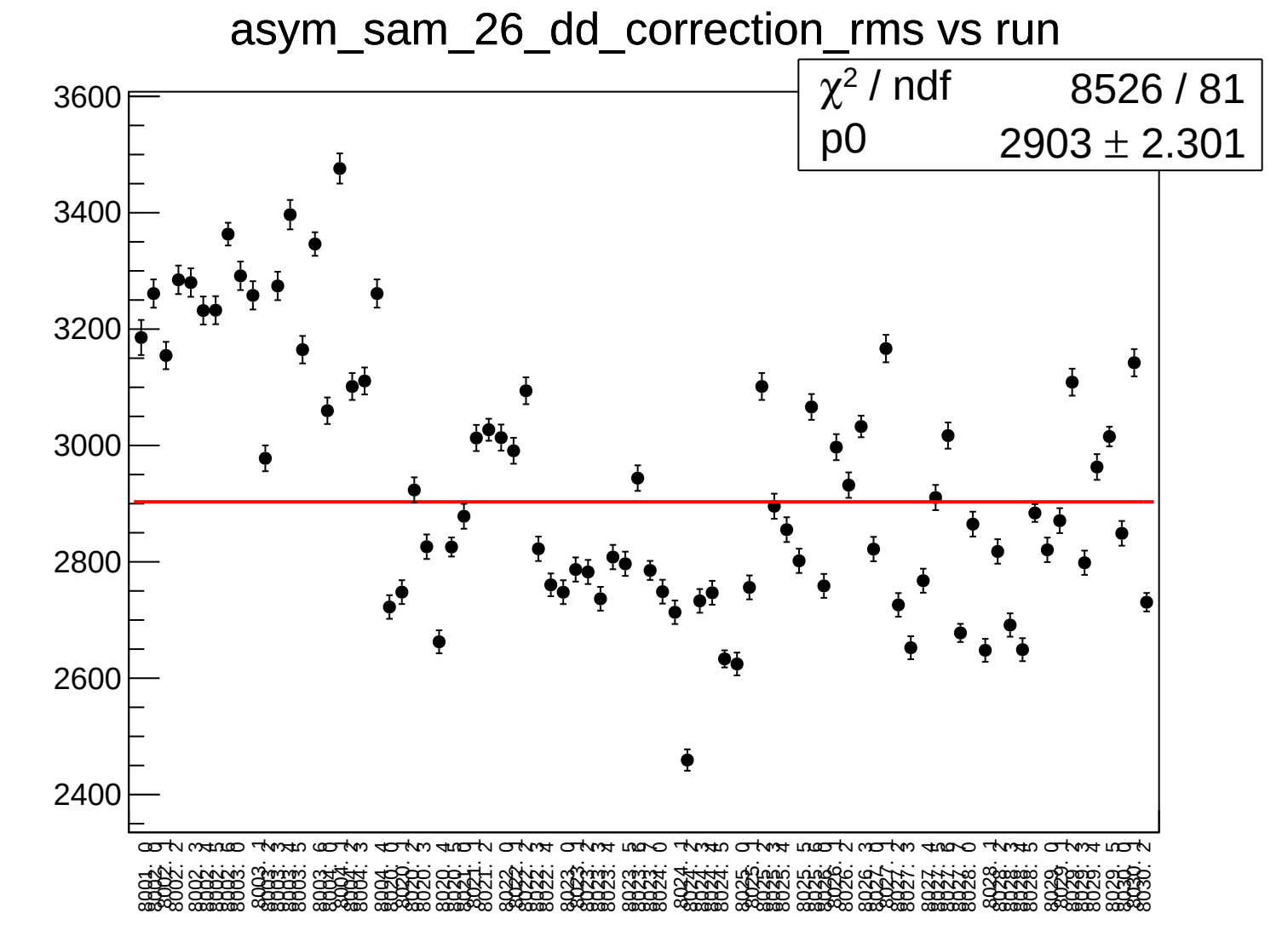

dit_asym_sam_26_dd_mean vs run
χ^2 / ndf 76.52 / 81
p0 161.1 ± 223.2
pull
Entries 82
Mean 760.8
Std Dev 725.8

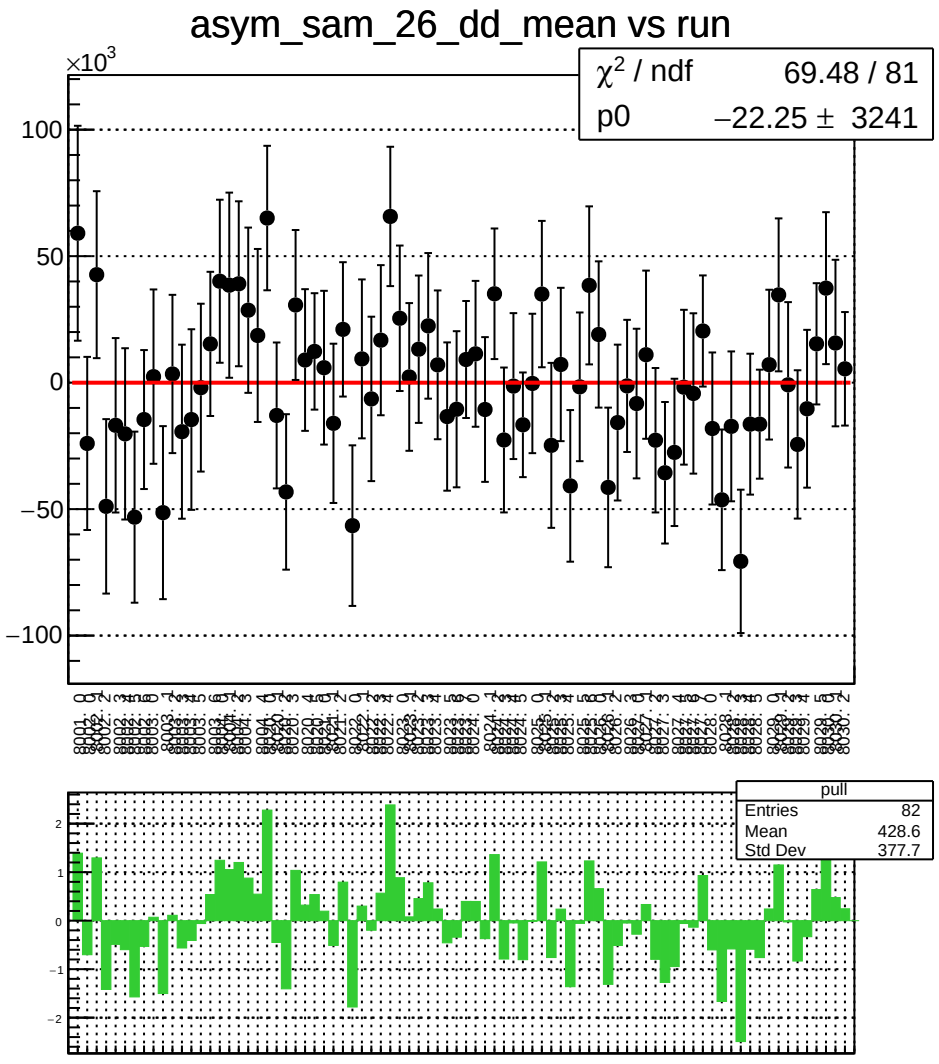

pull1D
Entries 82
Mean 0.003351
Std Dev 0.966

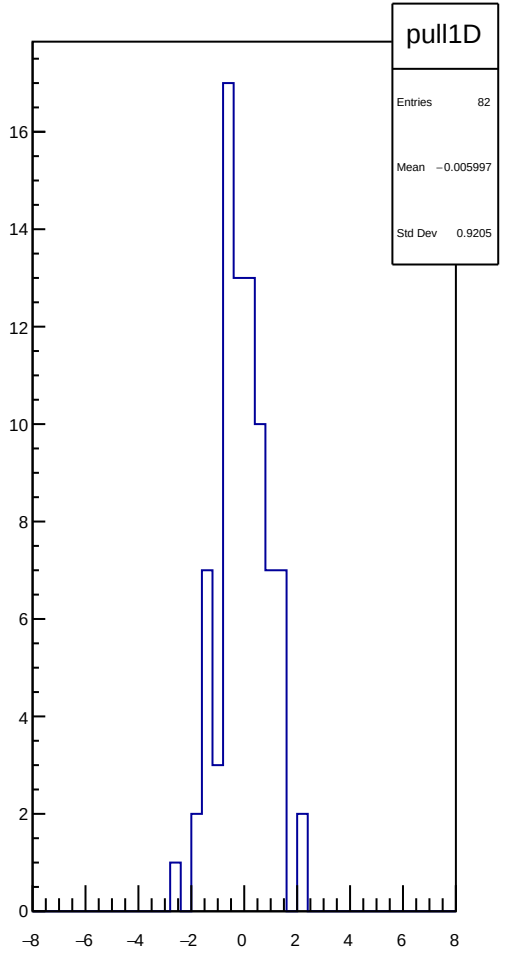

dit_asym_sam_26_dd_rms vs run
χ² / ndf 2512 / 81
p0 199.5 ± 0.1578
220
215
210
205
200
195
190
185
180

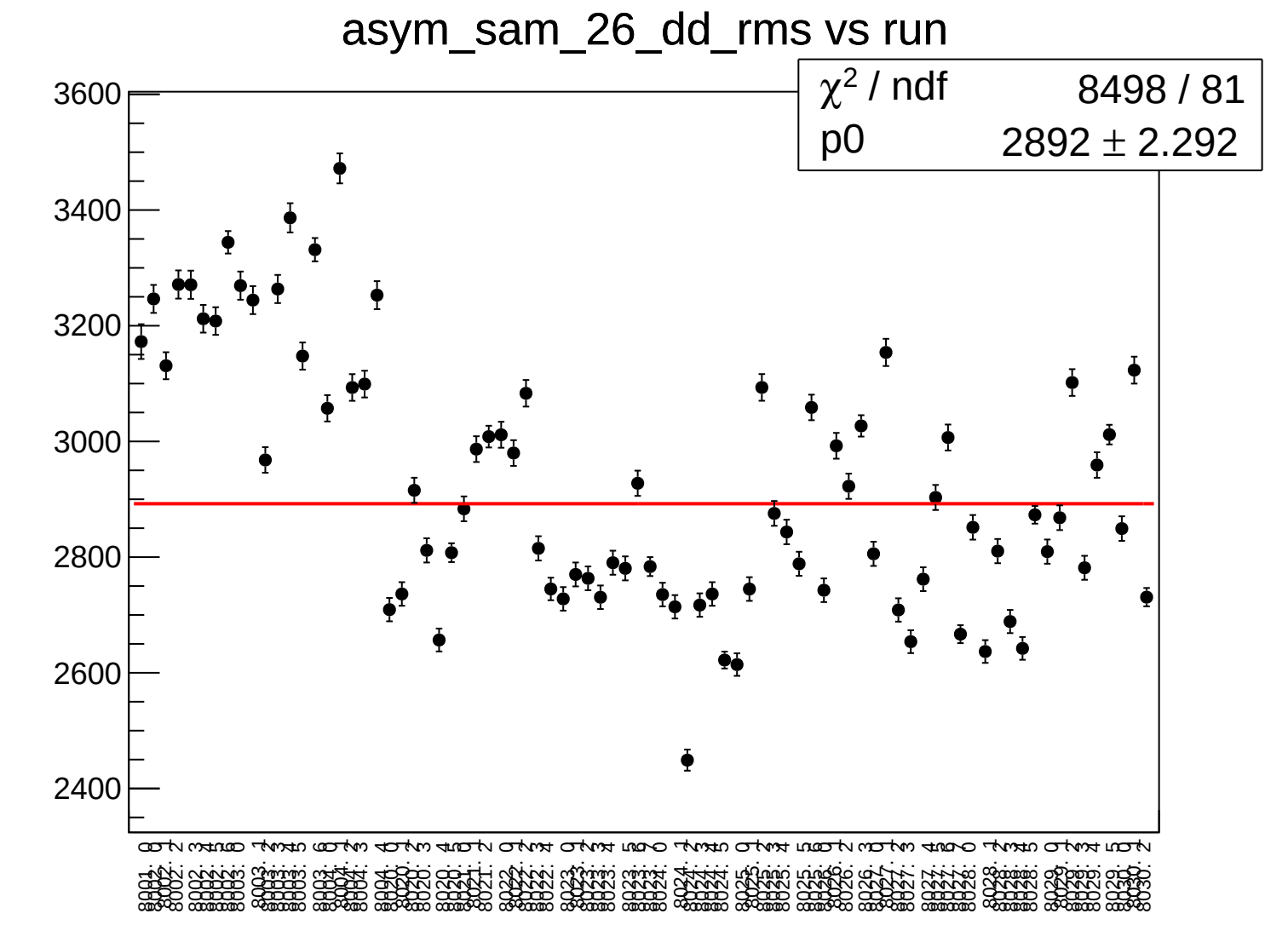

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 70.8 / 81
p0 227.7 ± 3254
100
50
0
−50
−100
pull
Entries 82
Mean 498
Std Dev 448.2
2
1
0
−1
−2

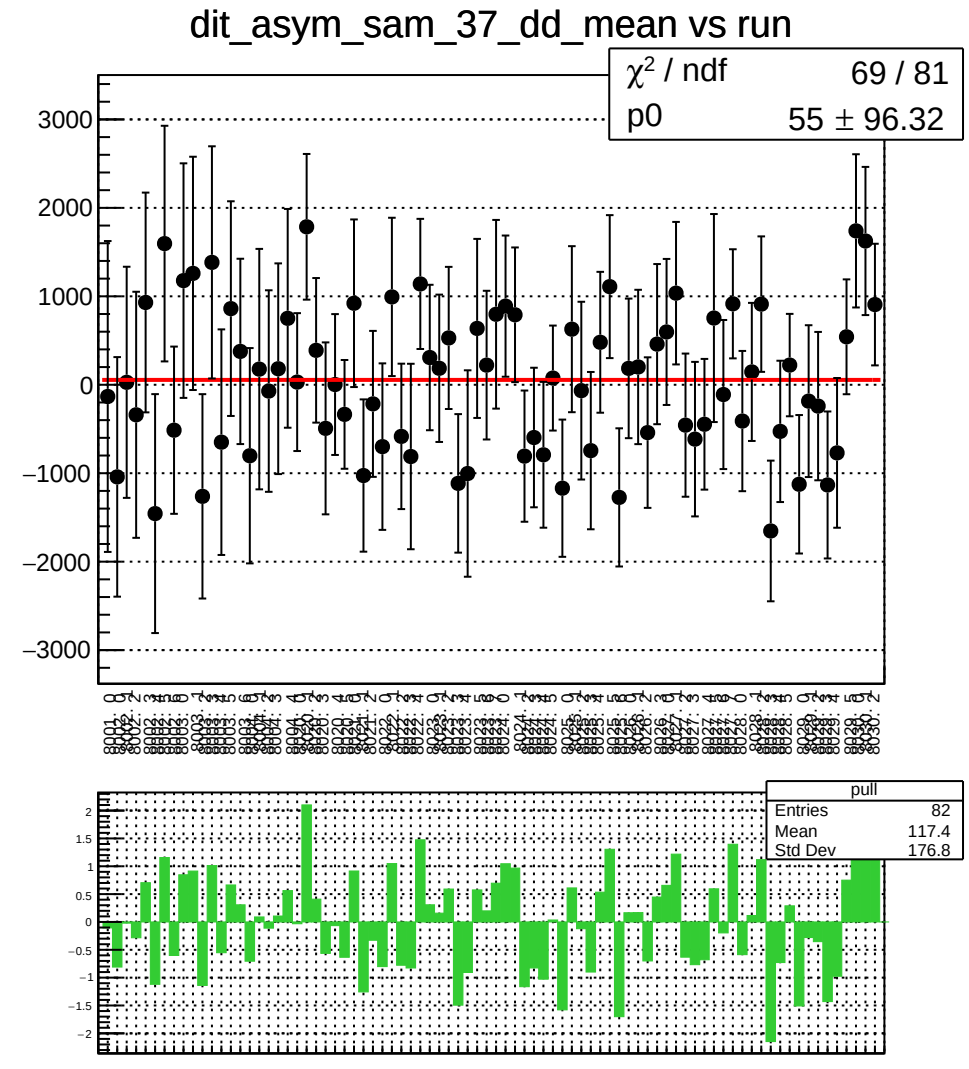

pull1D
Entries 82
Mean 0.005395
Std Dev 0.9292
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

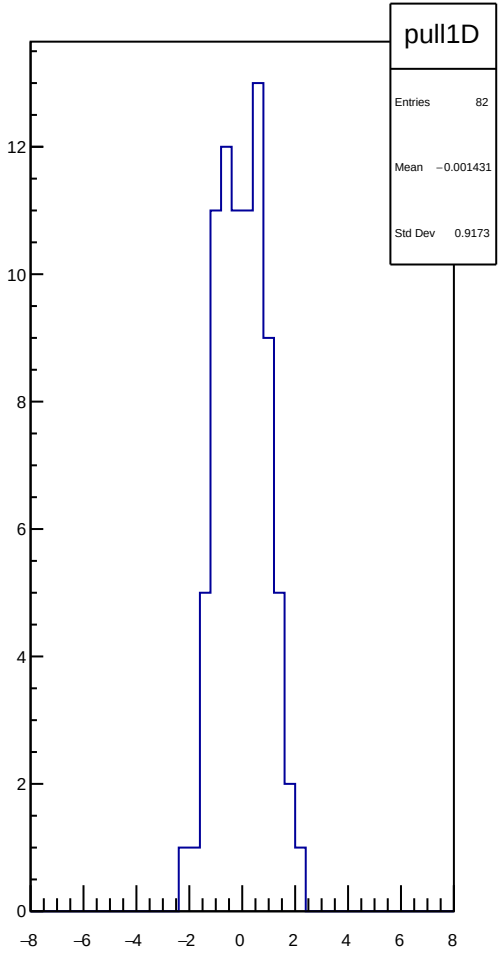

asym_sam_26_dd_correction_rms vs run
χ² / ndf 8526 / 81
p0 2903 ± 2.301
3600
3400
3200
3000
2800
2600
2400

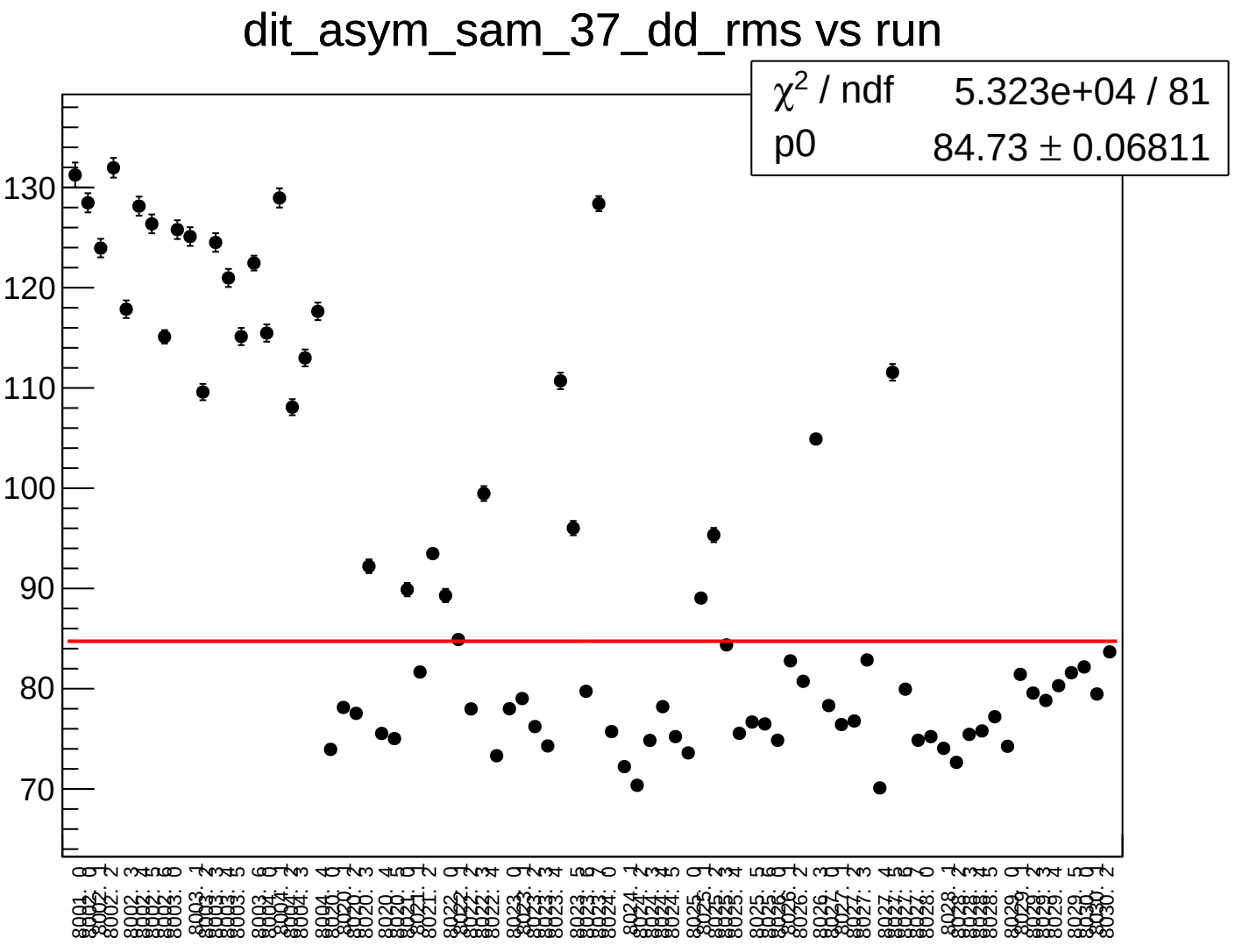

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 69.48 / 81
p0 −22.25 ± 3241
100
50
0
−50
−100
pull
Entries 82
Mean 428.6
Std Dev 377.7
2
1
0
−1
−2

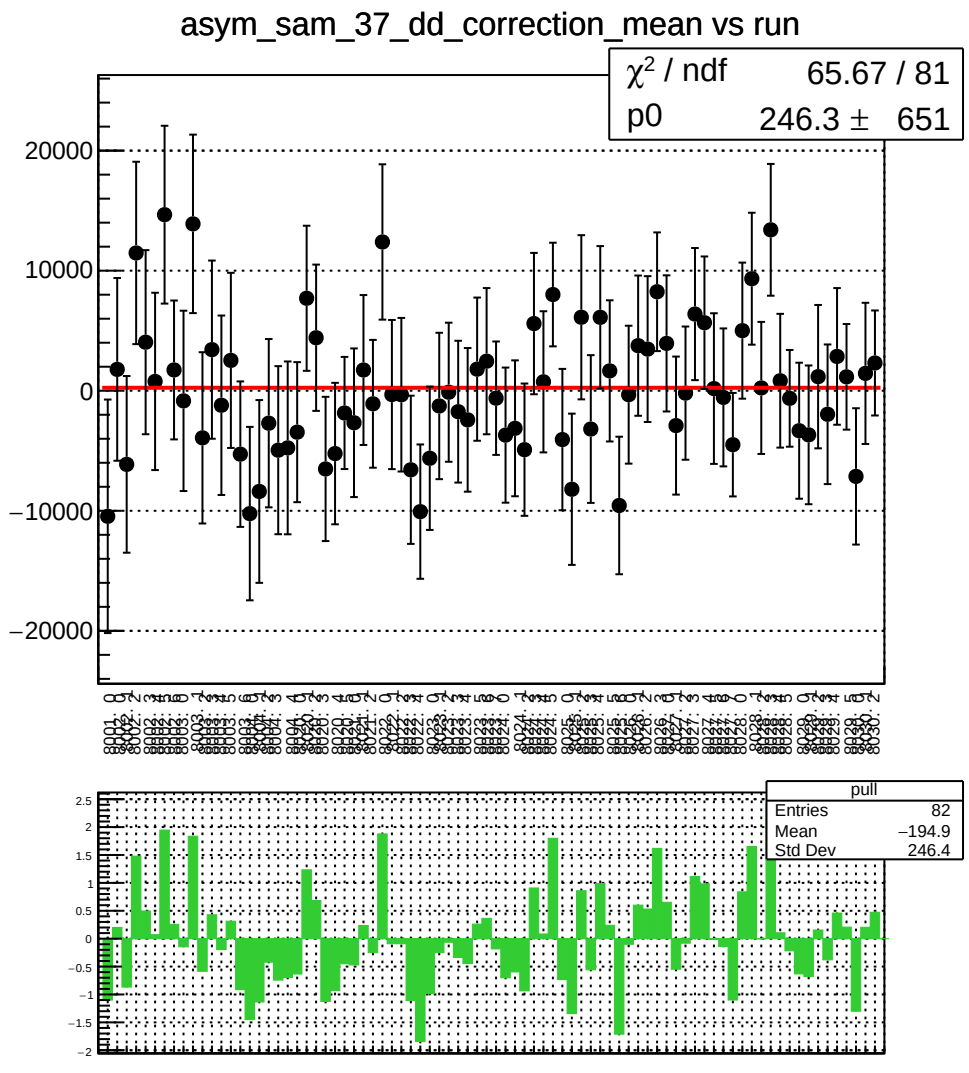

pull1D
Entries 82
Mean −0.005997
Std Dev 0.9205
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

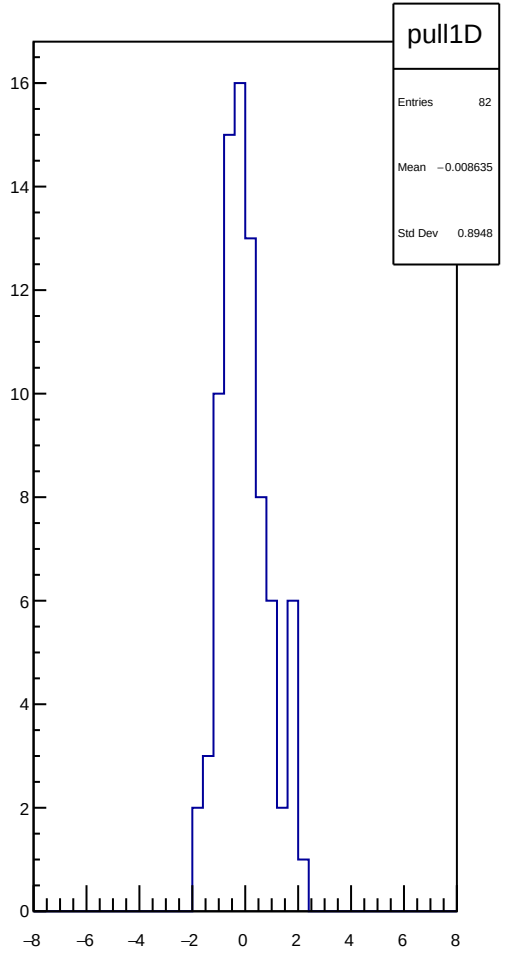

asym_sam_26_dd_rms vs run
χ² / ndf 8498 / 81
p0 2892 ± 2.292
3600
3400
3200
3000
2800
2600
2400

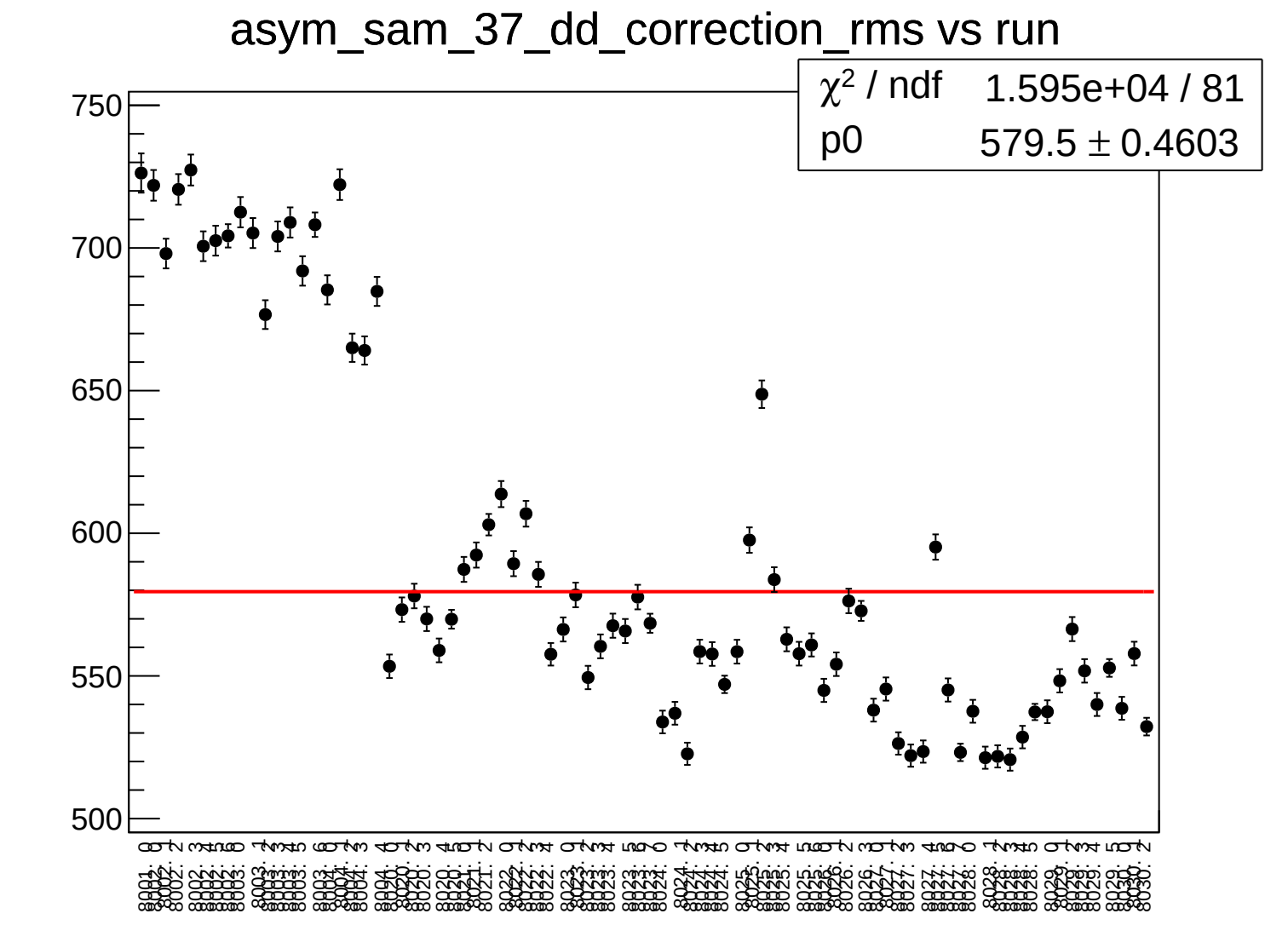

dit_asym_sam_37_dd_mean vs run
χ² / ndf 69 / 81
p0 55 ± 96.32
pull
Entries 82
Mean 117.4
Std Dev 176.8

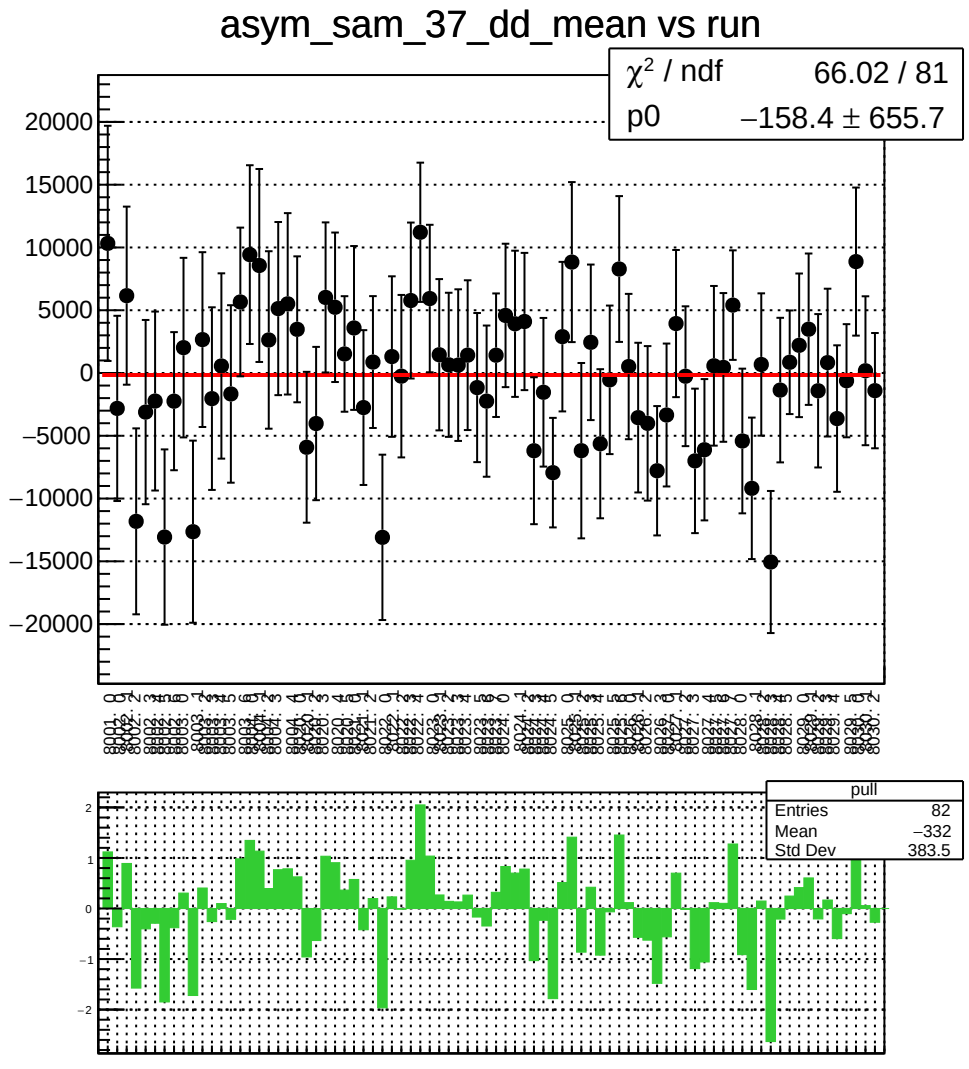

pull1D
Entries 82
Mean −0.001431
Std Dev 0.9173

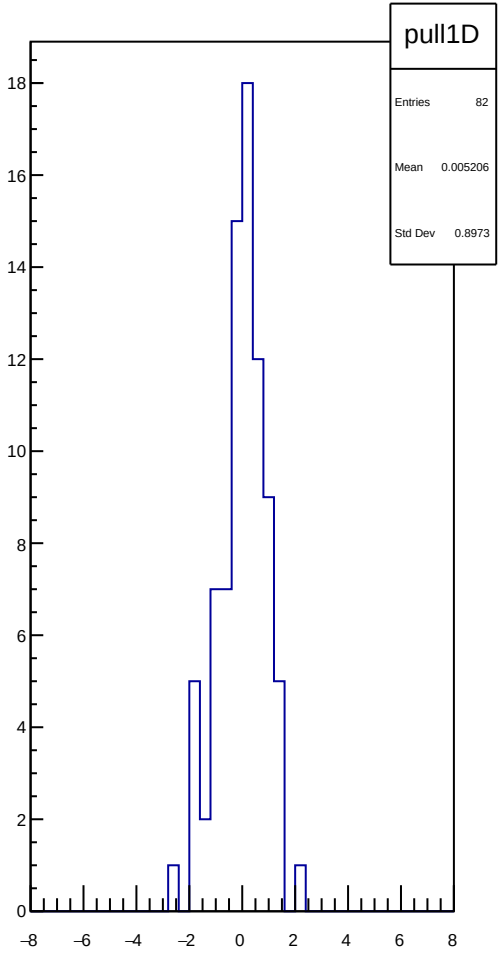

dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 5.323e+04 / 81
p0 84.73 ± 0.06811
130
120
110
100
90
80
70

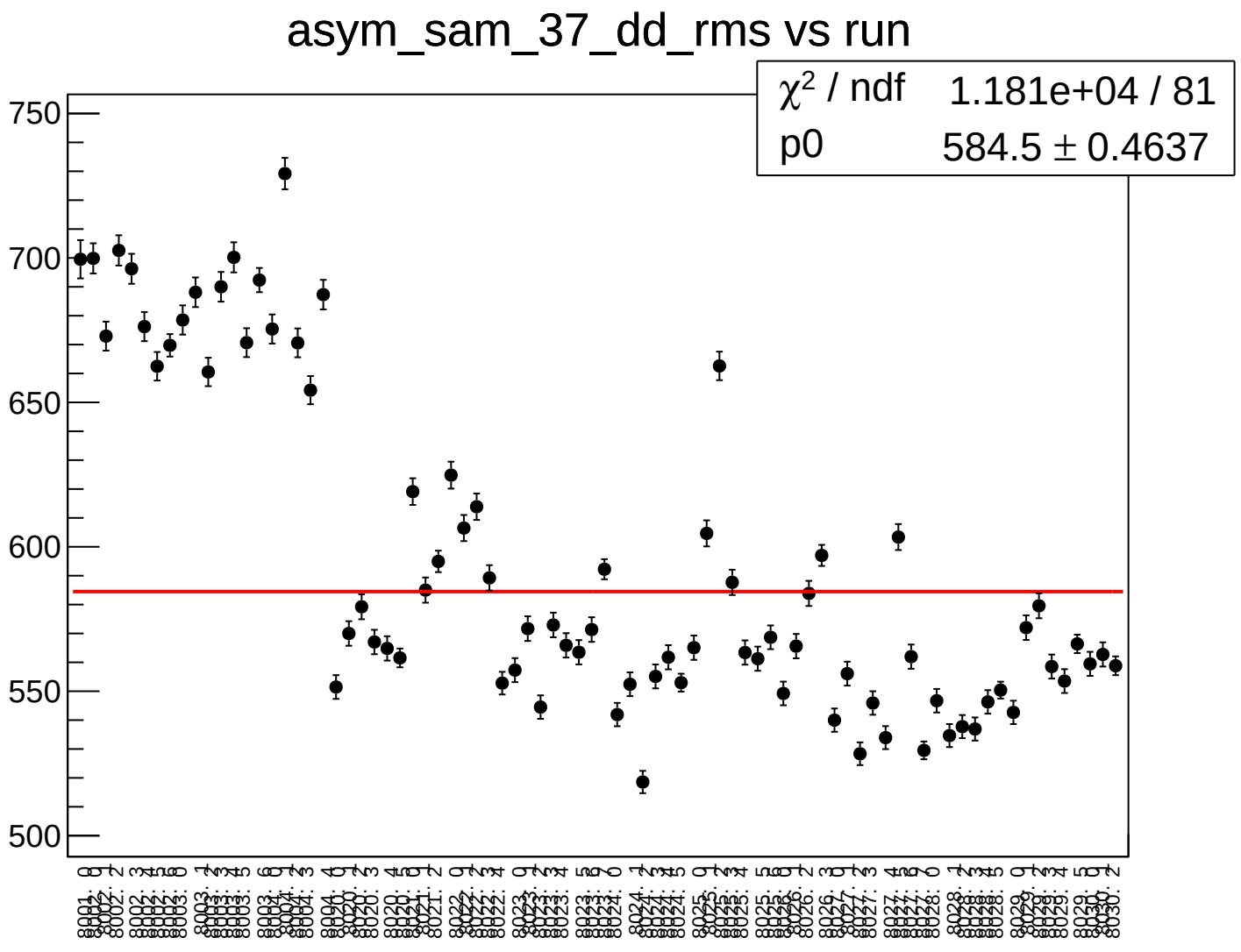

asym_sam_37_dd_correction_mean vs run
χ² / ndf 65.67 / 81
p0 246.3 ± 651
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −194.9
Std Dev 246.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

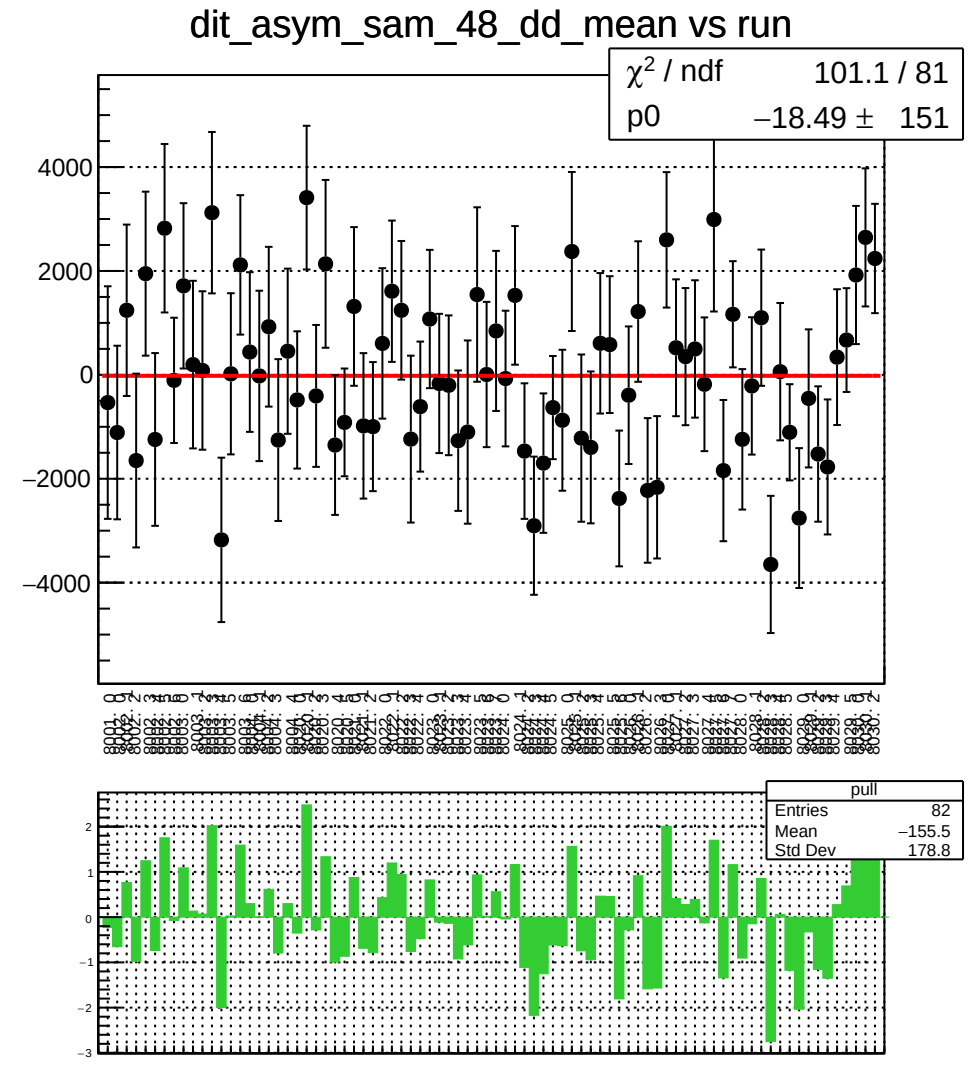

pull1D
Entries 82
Mean −0.008635
Std Dev 0.8948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

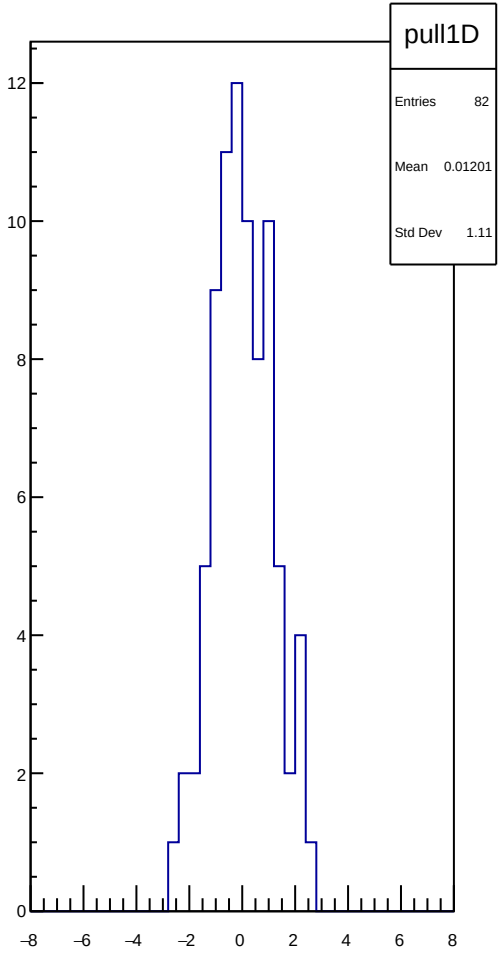

asym_sam_37_dd_correction_rms vs run
χ² / ndf 1.595e+04 / 81
p0 579.5 ± 0.4603
750
700
650
600
550
500

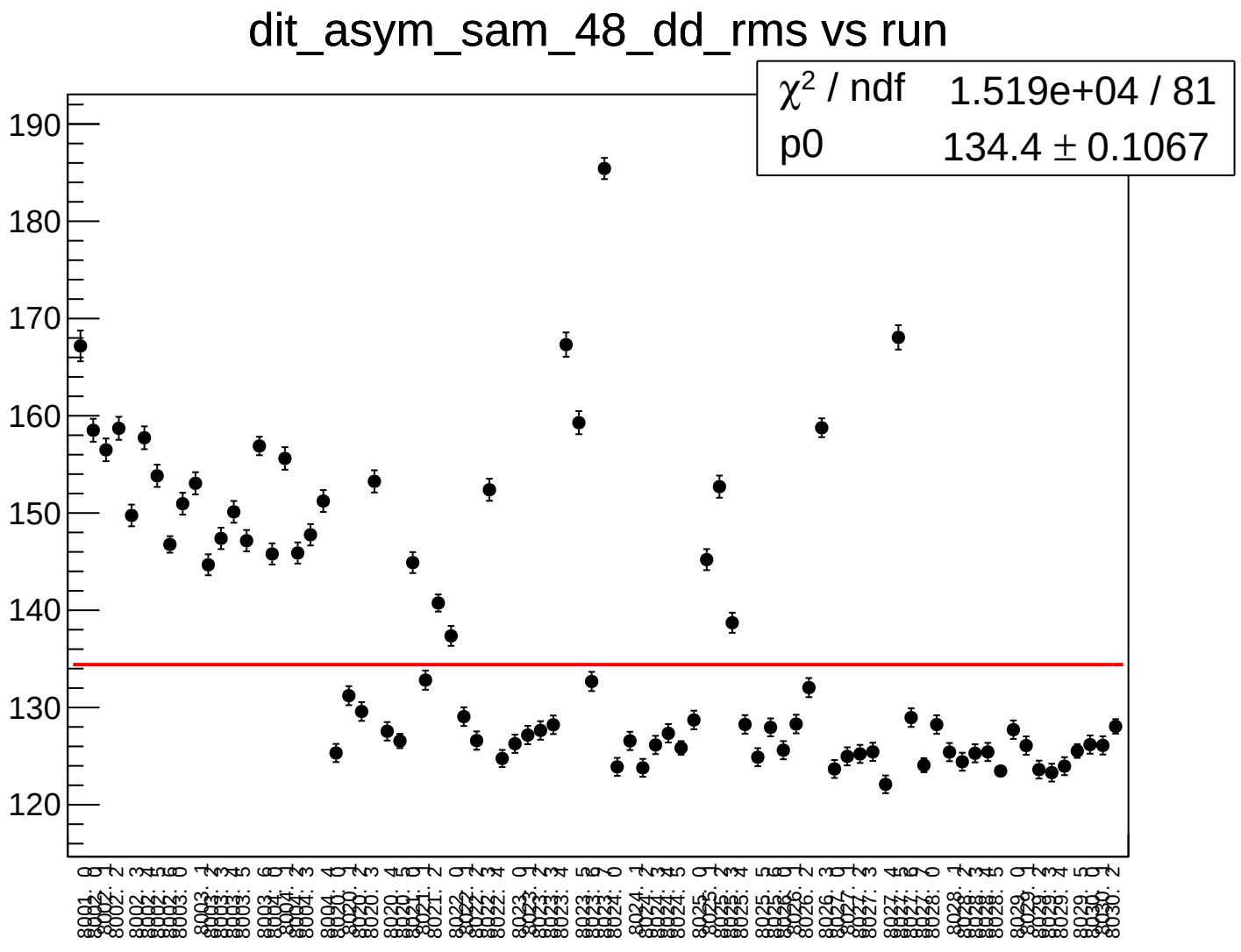

asym_sam_37_dd_mean vs run
χ² / ndf 66.02 / 81
p0 −158.4 ± 655.7
pull
Entries 82
Mean −332
Std Dev 383.5

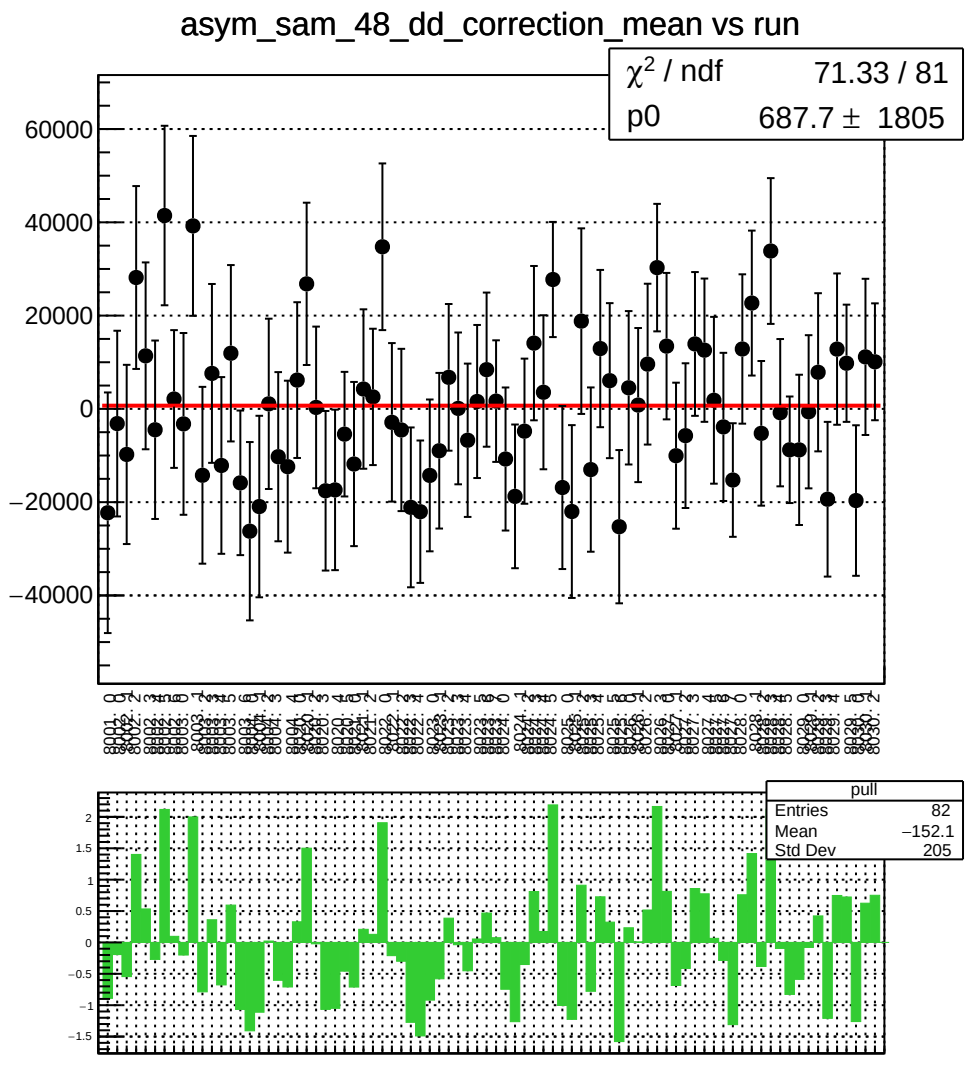

pull1D
Entries 82
Mean 0.005206
Std Dev 0.8973

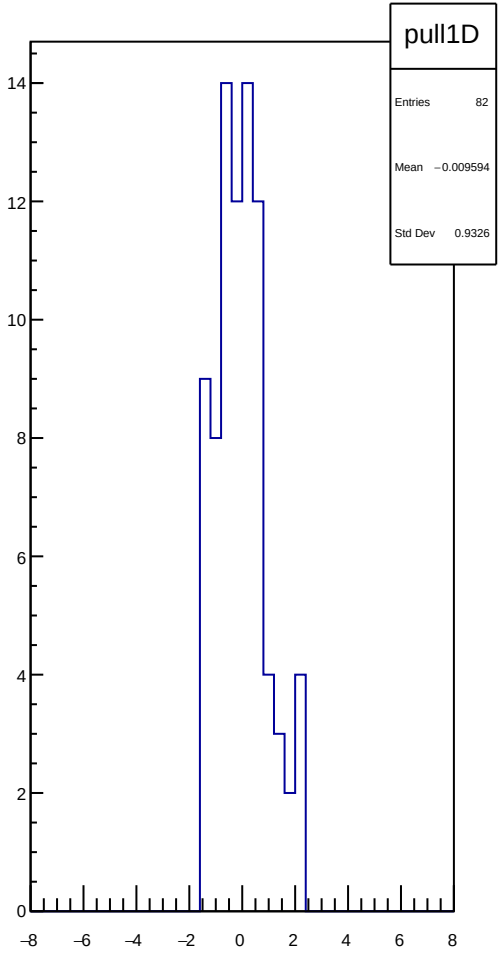

asym_sam_37_dd_rms vs run
χ² / ndf 1.181e+04 / 81
p0 584.5 ± 0.4637
750
700
650
600
550
500

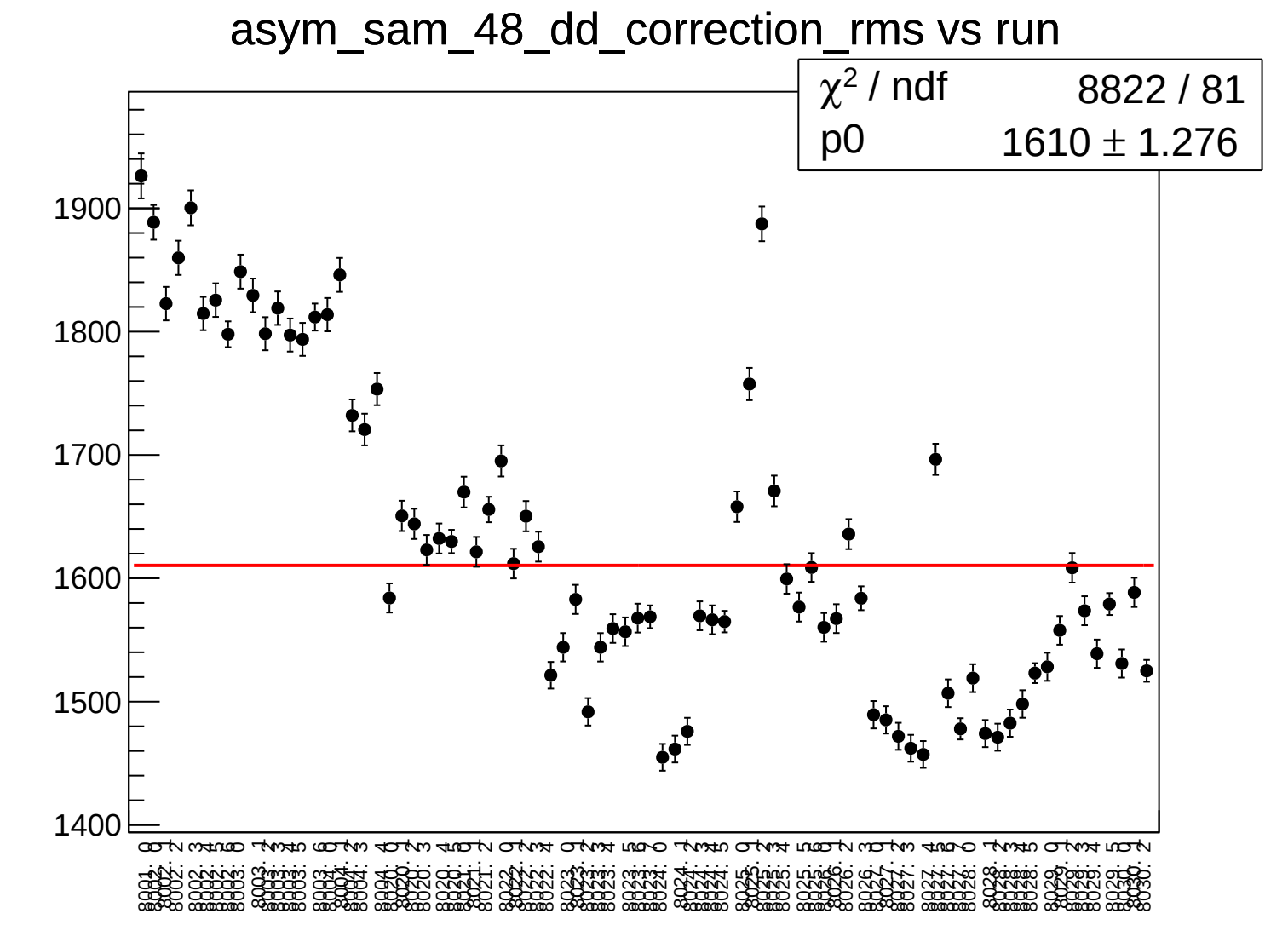

dit_asym_sam_48_dd_mean vs run
χ² / ndf 101.1 / 81
p0 −18.49 ± 151
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −155.5
Std Dev 178.8
2
1
0
−1
−2
−3

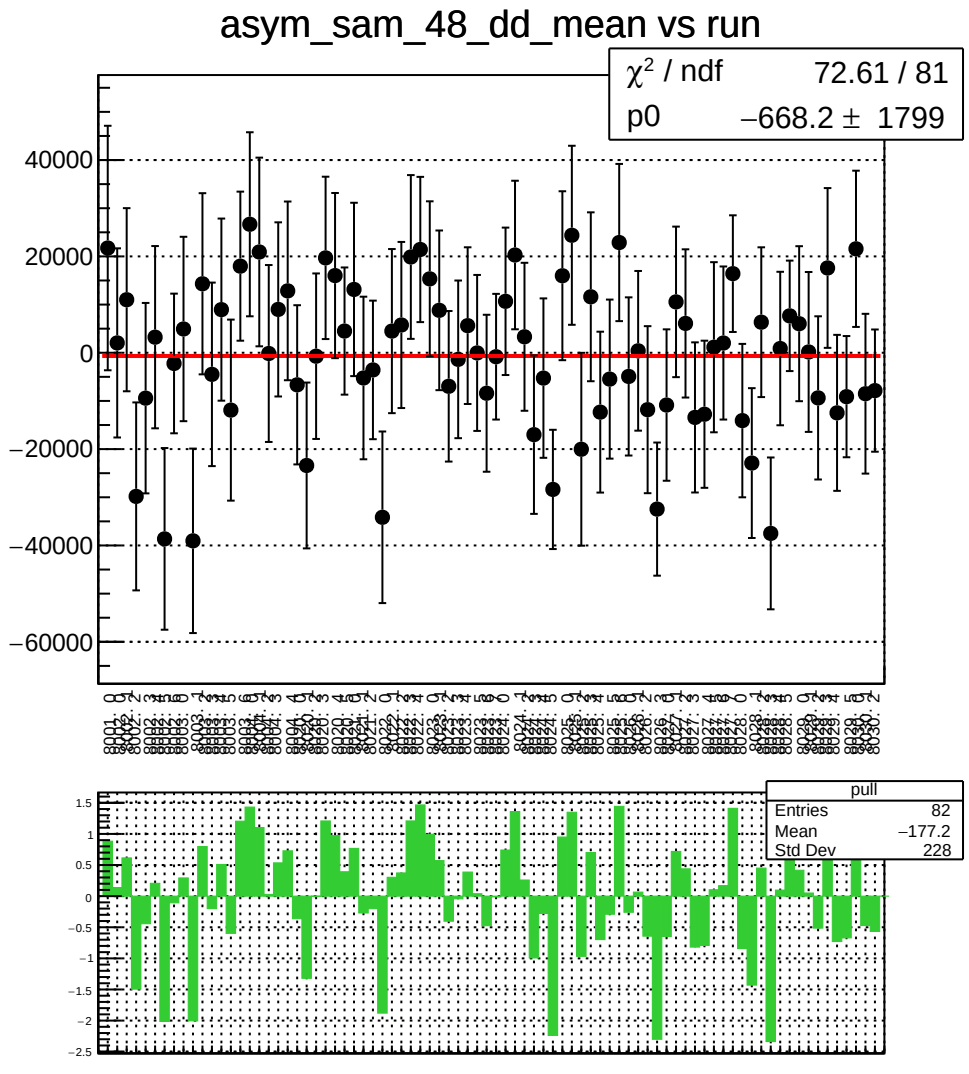

pull1D
Entries 82
Mean 0.01201
Std Dev 1.11
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

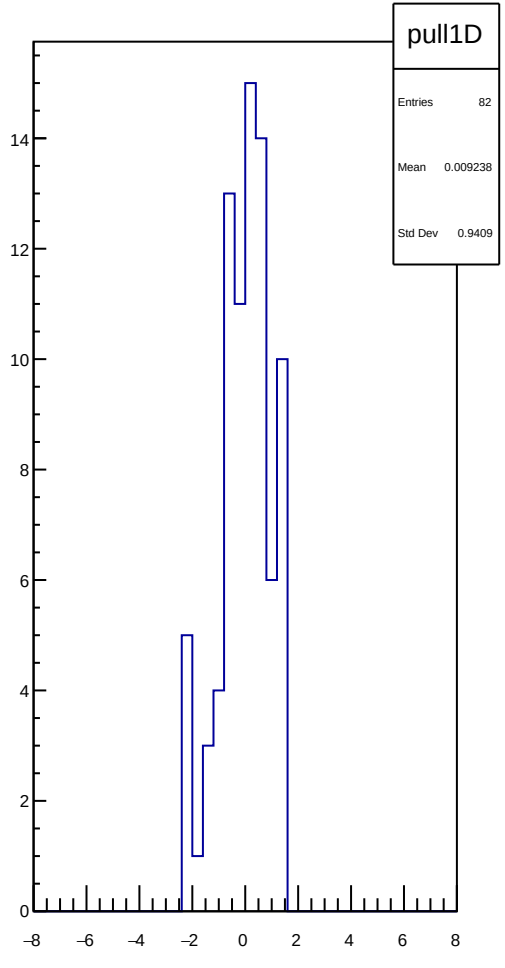

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.519e+04 / 81
p0 134.4 ± 0.1067
190
180
170
160
150
140
130
120

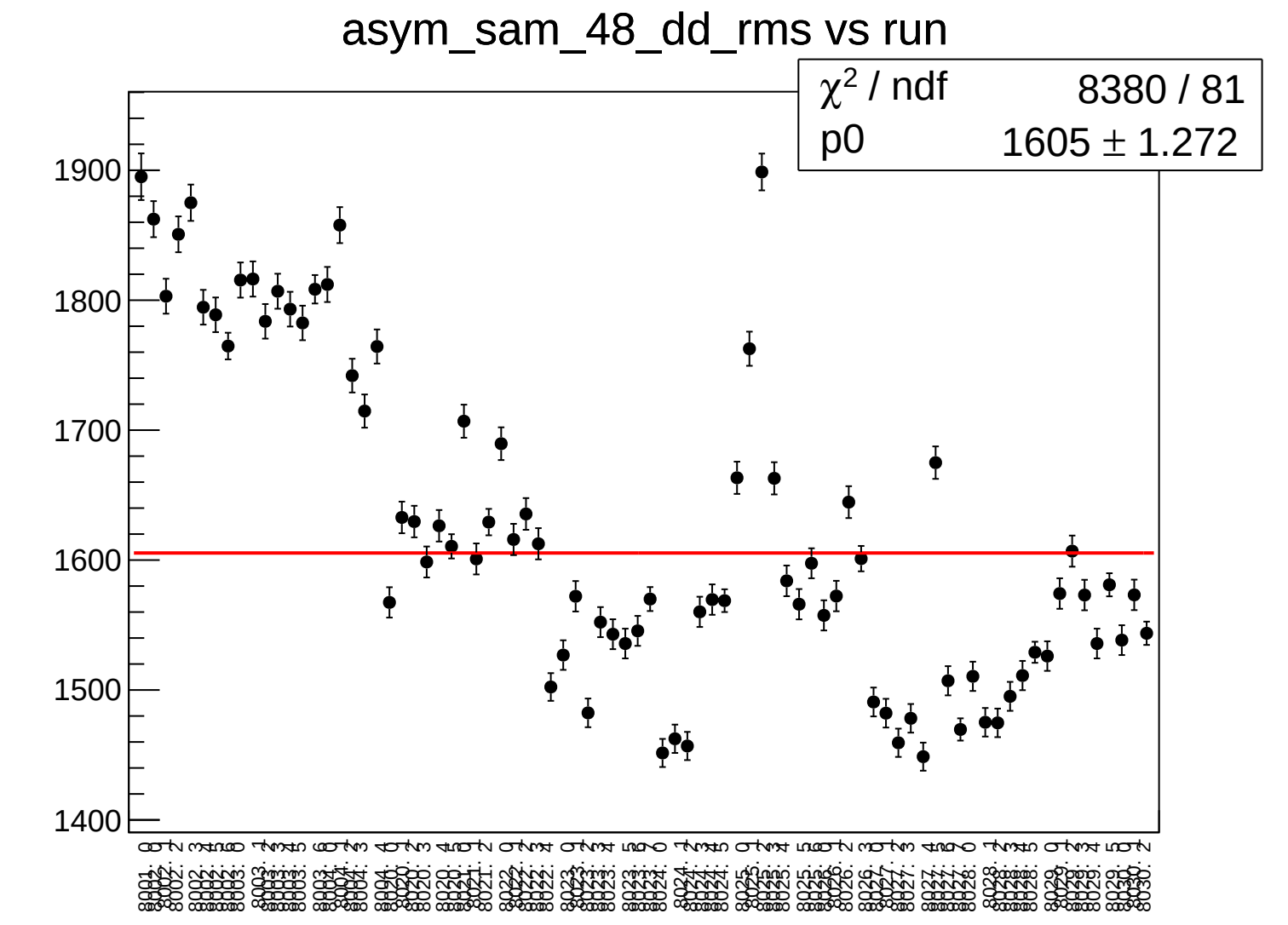

asym_sam_48_dd_correction_mean vs run
χ² / ndf 71.33 / 81
p0 687.7 ± 1805
60000
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −152.1
Std Dev 205
2
1.5
1
0.5
0
−0.5
−1
−1.5

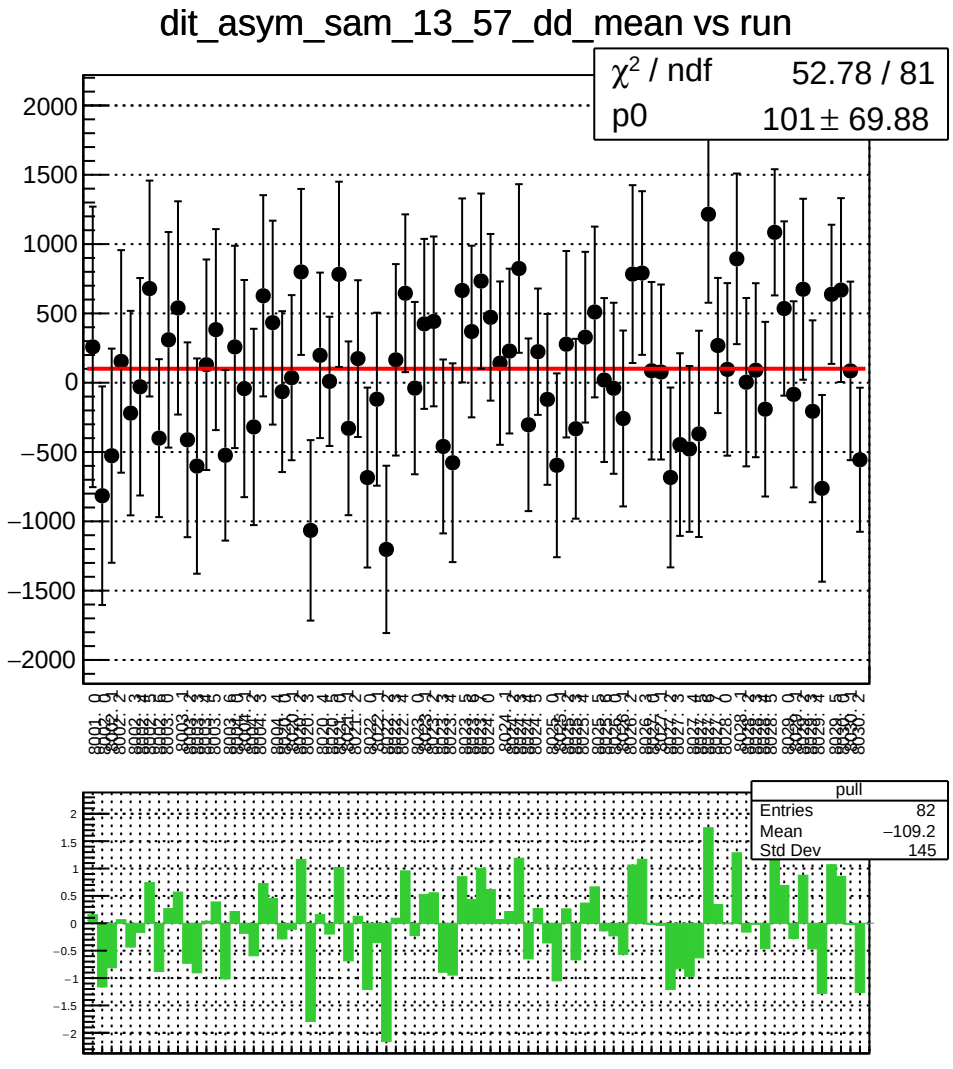

pull1D
Entries 82
Mean −0.009594
Std Dev 0.9326
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

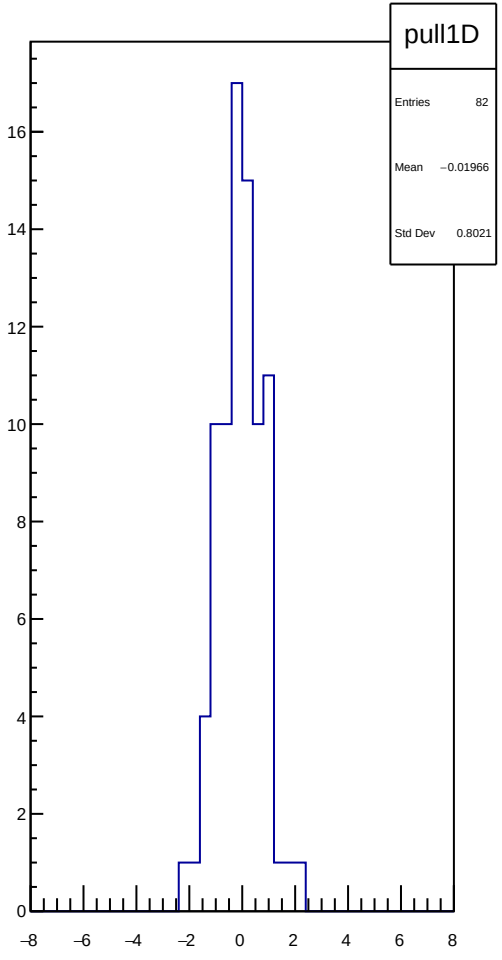

asym_sam_48_dd_correction_rms vs run
χ² / ndf 8822 / 81
p0 1610 ± 1.276
1900
1800
1700
1600
1500
1400

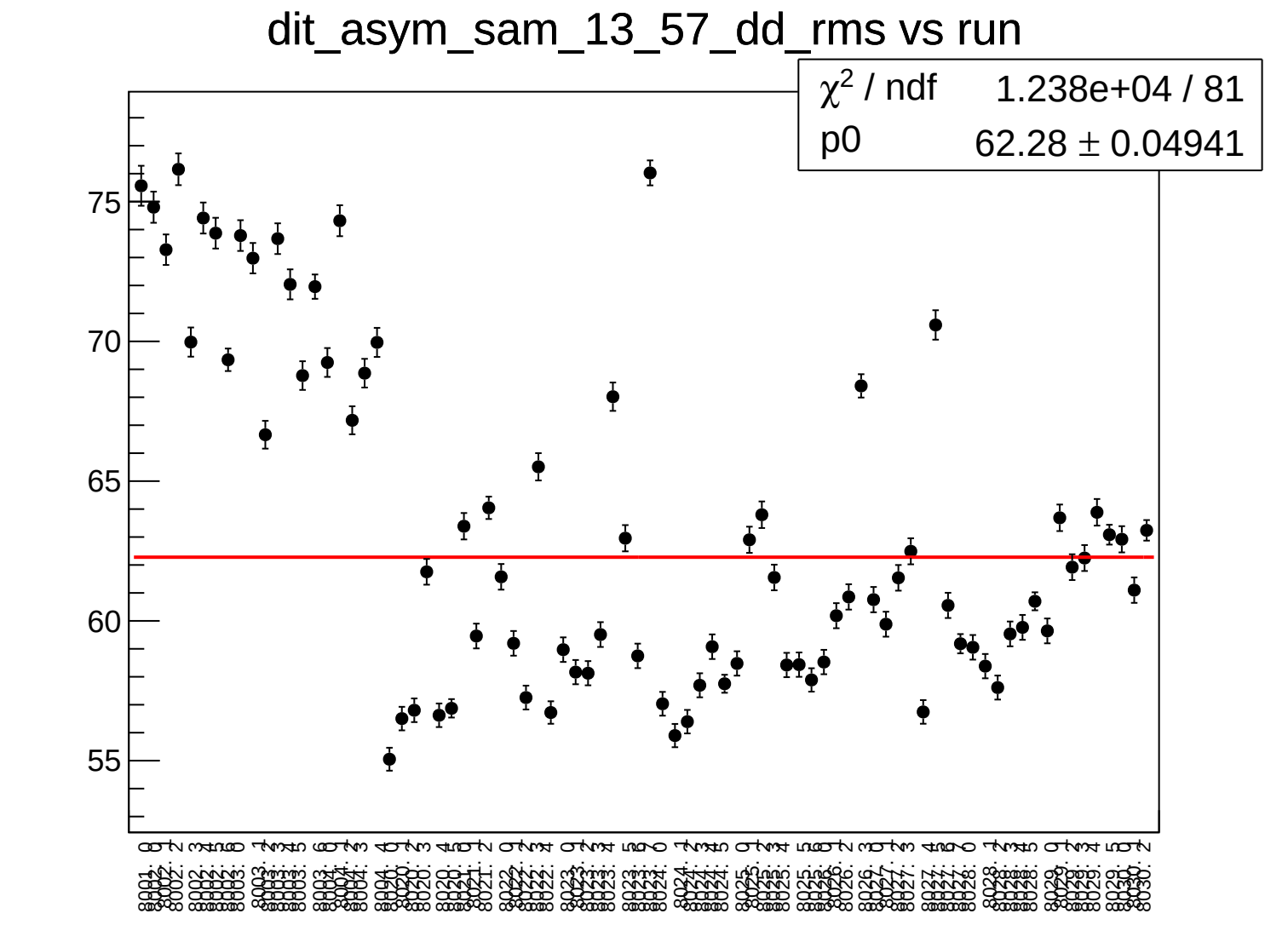

asym_sam_48_dd_mean vs run
χ² / ndf 72.61 / 81
p0 −668.2 ± 1799
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −177.2
Std Dev 228
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

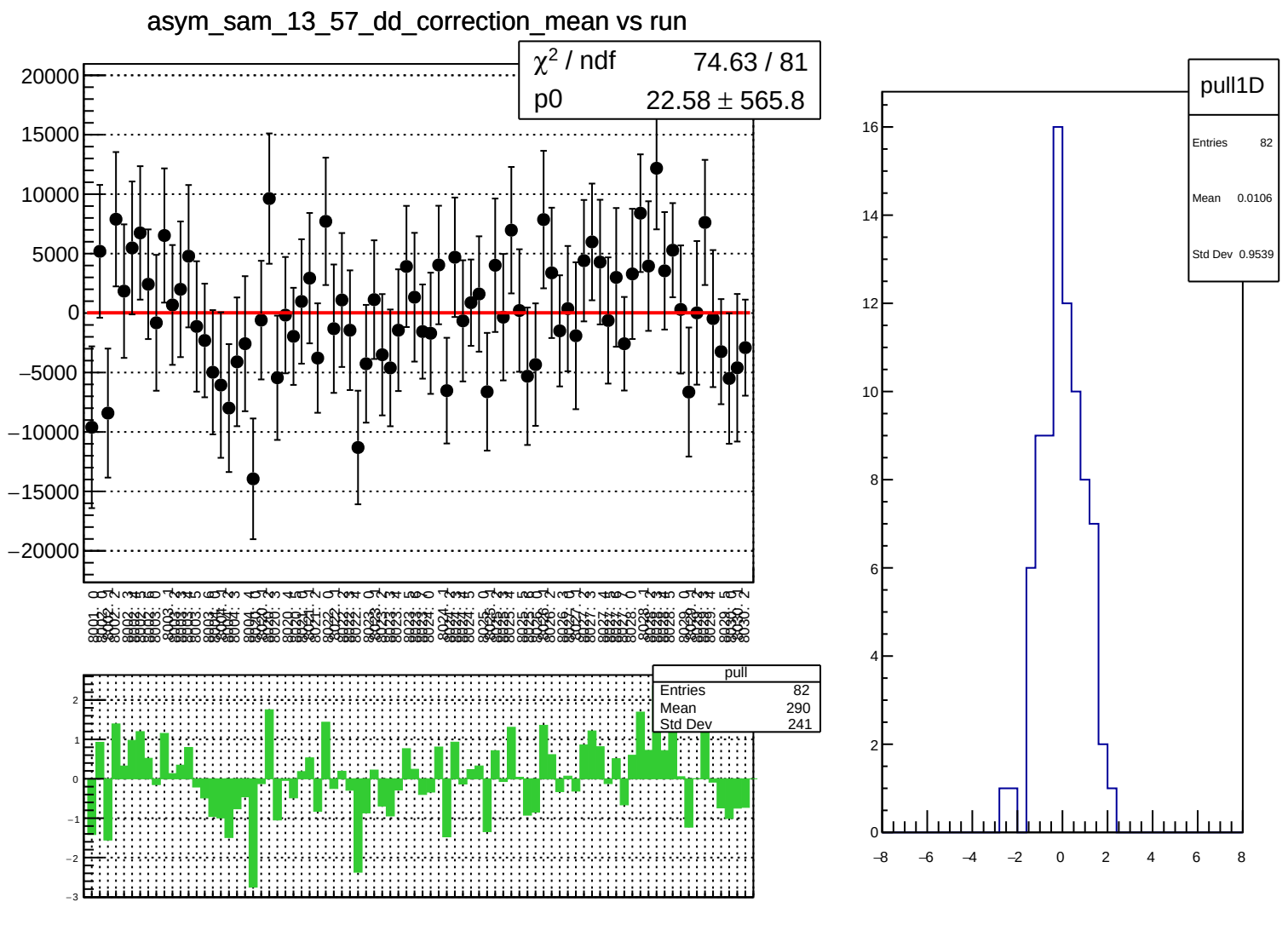

pull1D
Entries 82
Mean 0.009238
Std Dev 0.9409
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

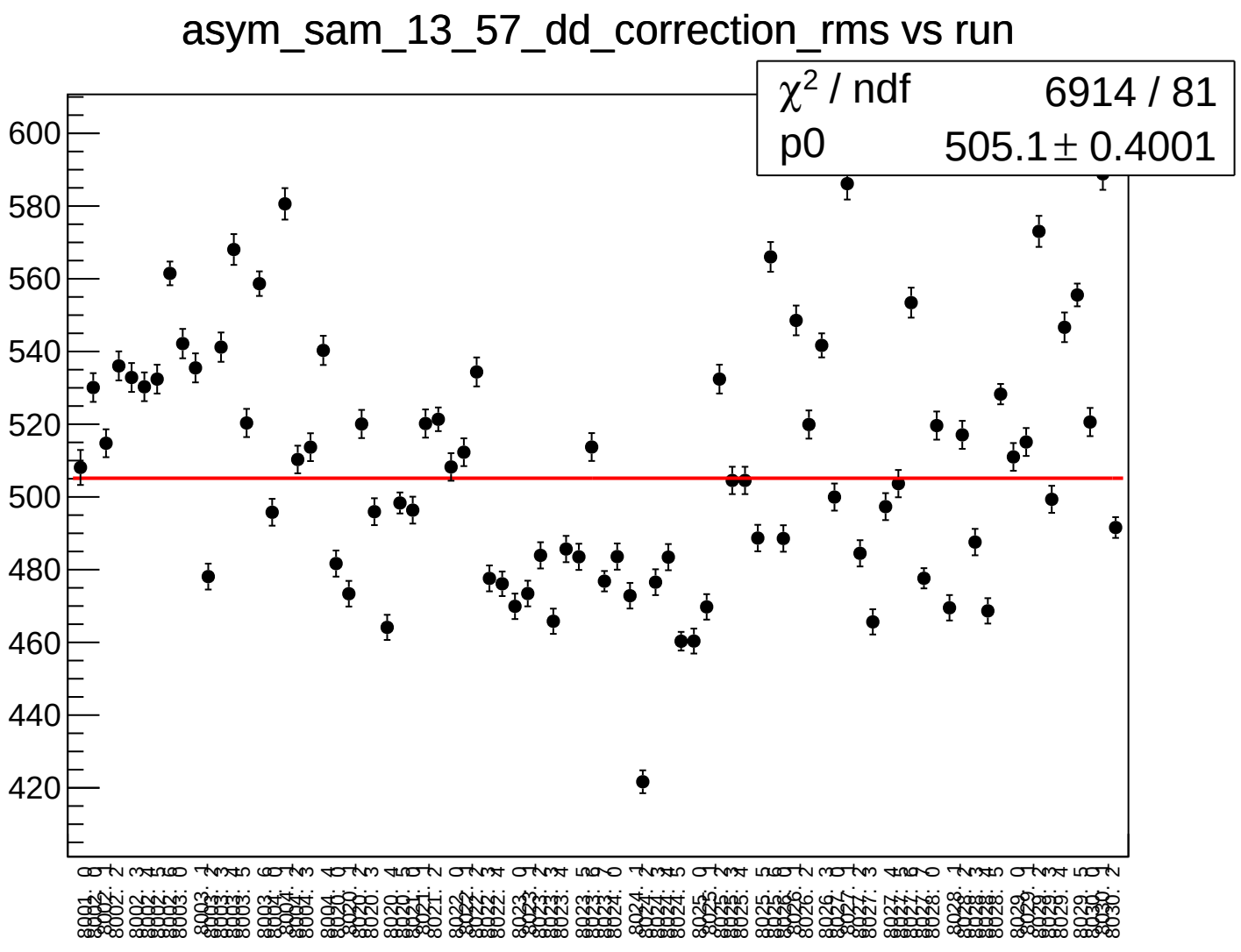

asym_sam_48_dd_rms vs run
χ² / ndf 8380 / 81
p0 1605 ± 1.272
1900
1800
1700
1600
1500
1400

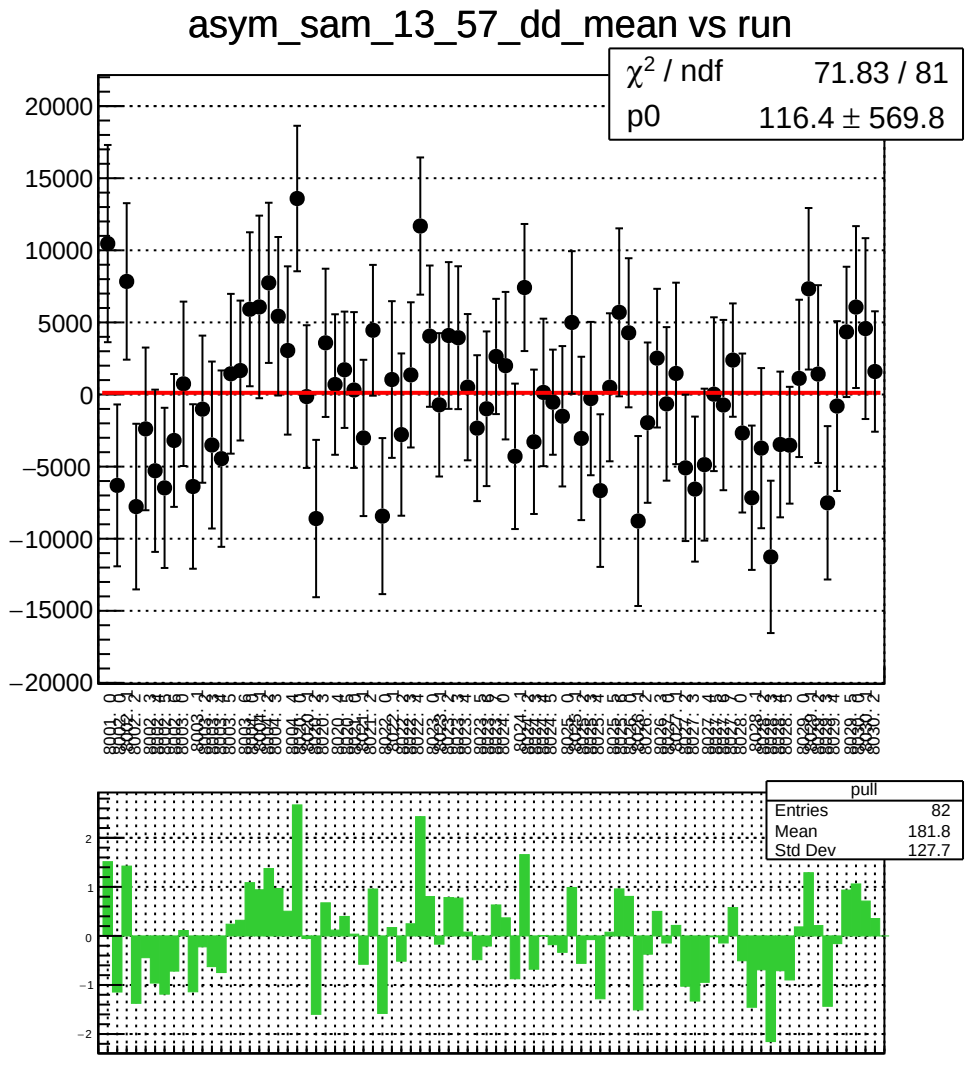

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 52.78 / 81
p0 101 ± 69.88
pull
Entries 82
Mean −109.2
Std Dev 145

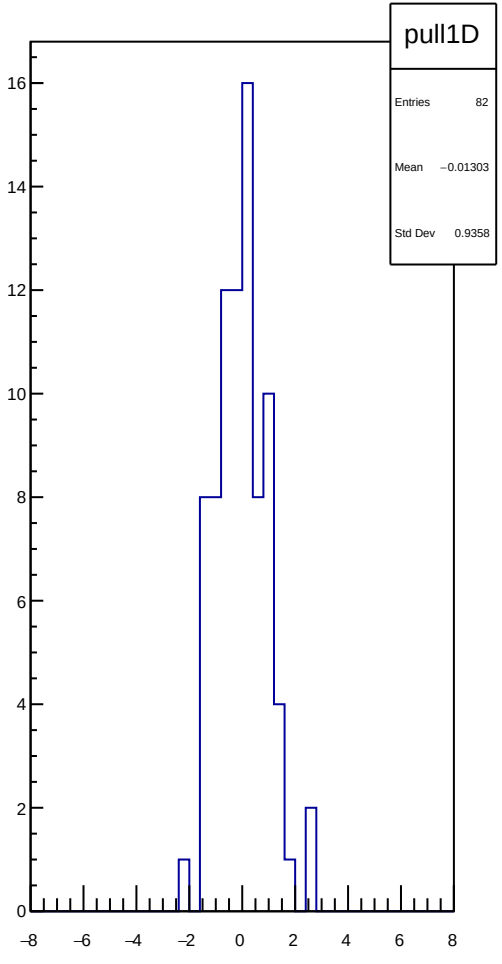

pull1D
Entries 82
Mean −0.01966
Std Dev 0.8021

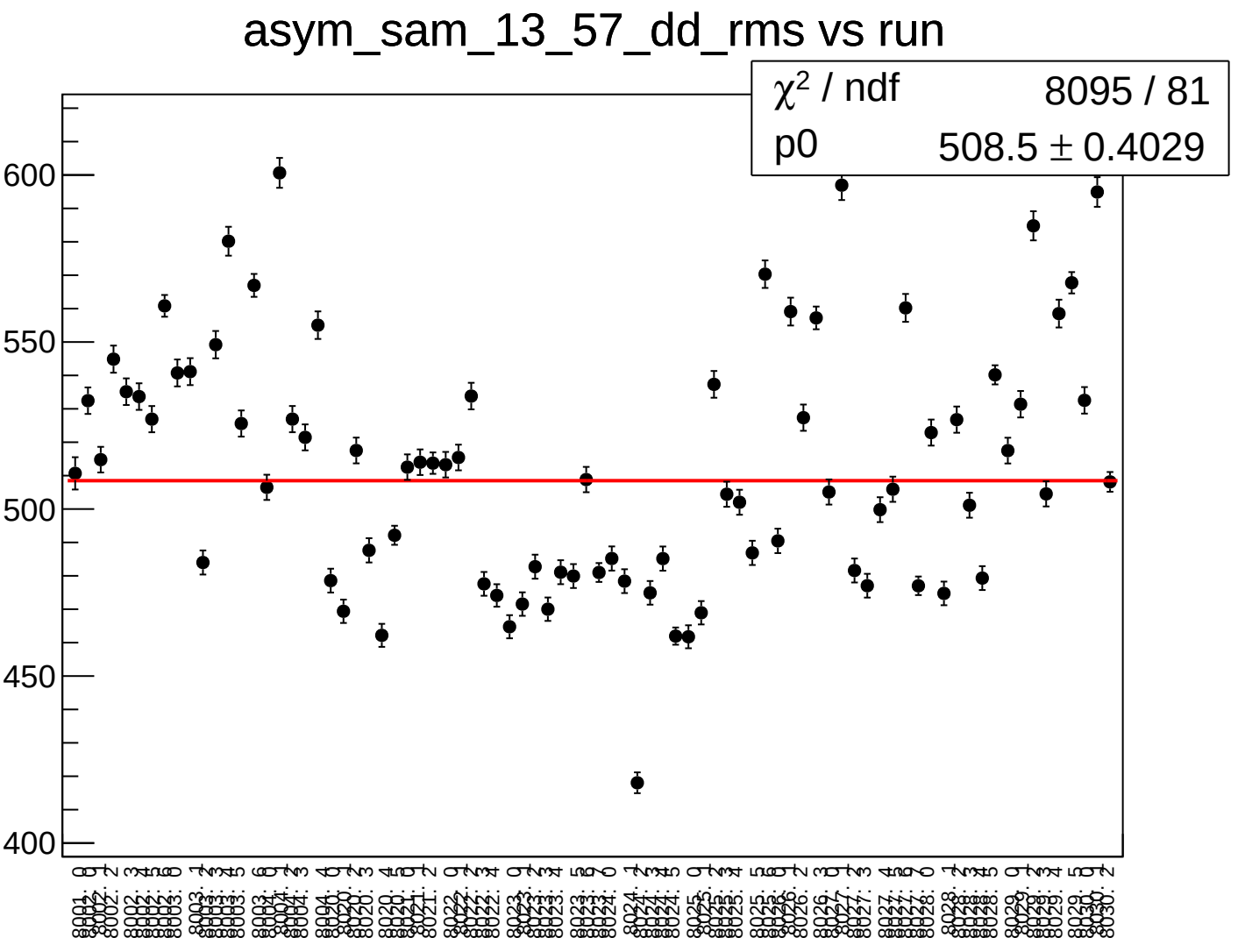

dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 1.238e+04 / 81
p0 62.28 ± 0.04941
75
70
65
60
55

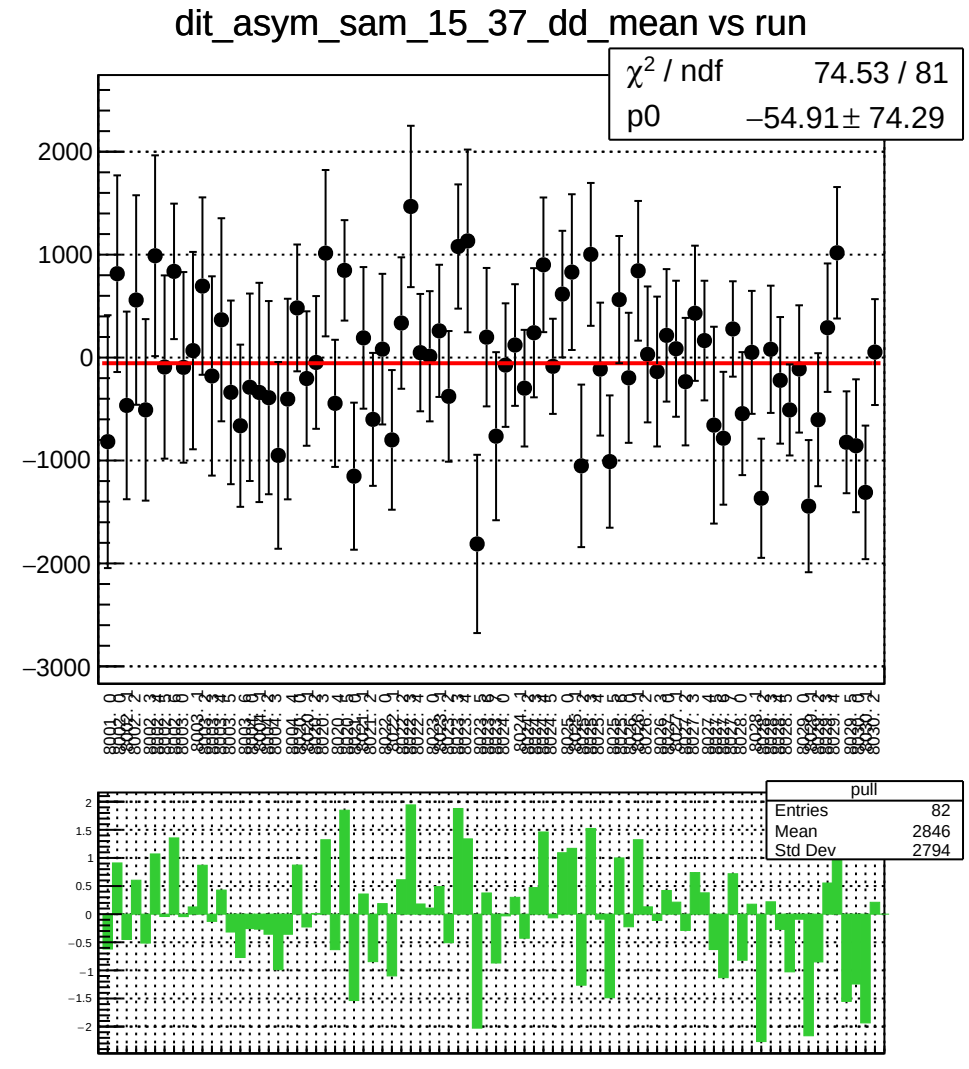

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 74.63 / 81
p0 22.58 ± 565.8
pull
Entries 82
Mean 290
Std Dev 241
pull1D
Entries 82
Mean 0.0106
Std Dev 0.9539

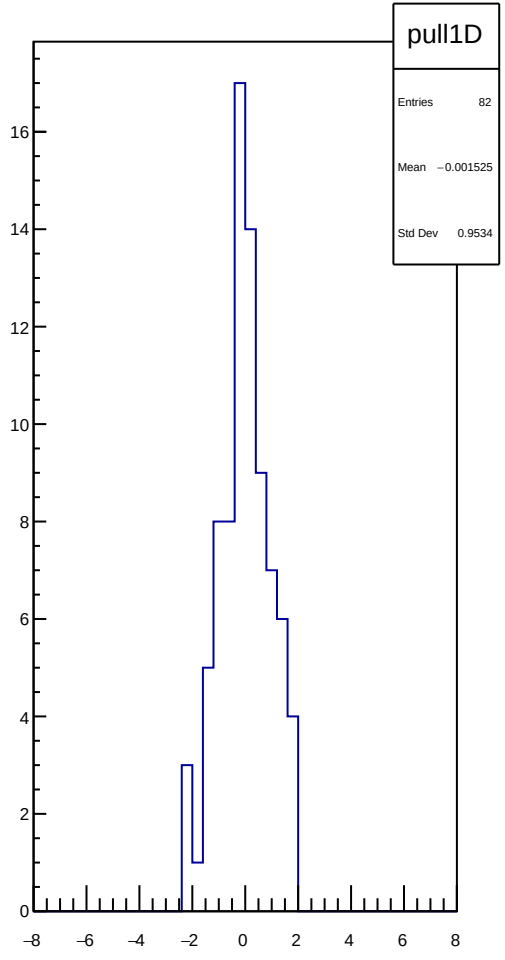

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 6914 / 81
p0 505.1 ± 0.4001
600
580
560
540
520
500
480
460
440
420

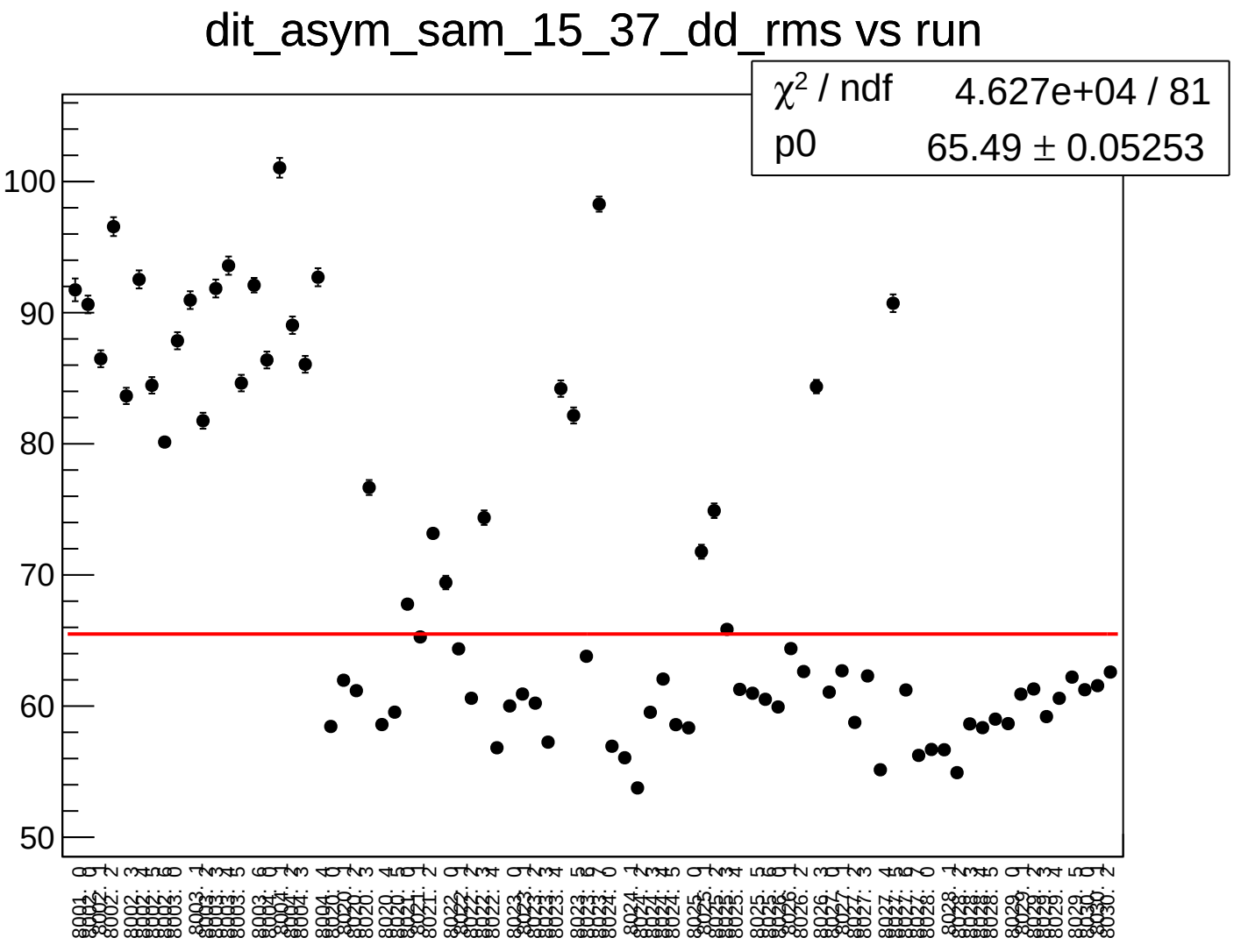

asym_sam_13_57_dd_mean vs run
χ² / ndf 71.83 / 81
p0 116.4 ± 569.8
pull
Entries 82
Mean 181.8
Std Dev 127.7

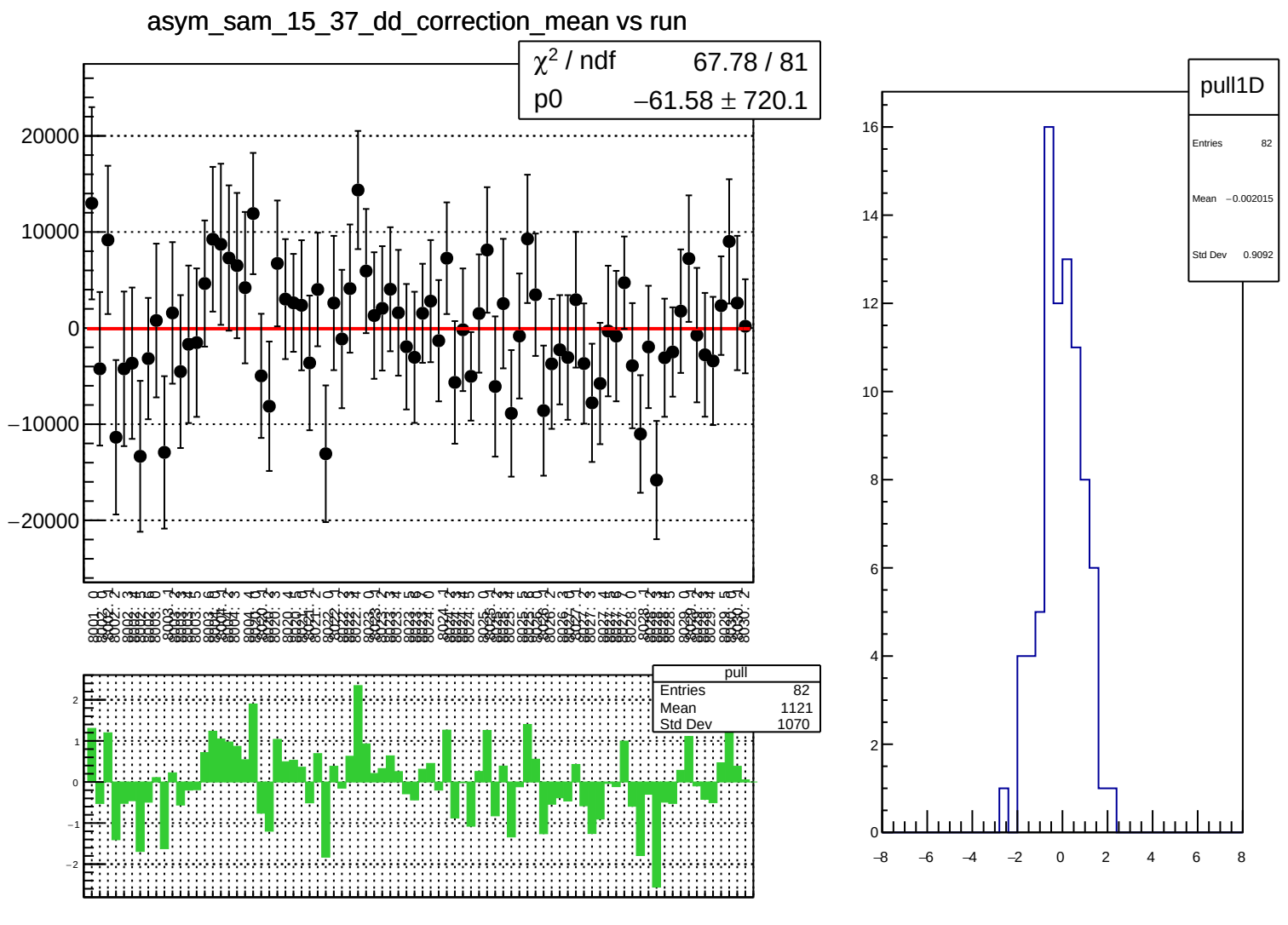

pull1D
Entries 82
Mean −0.01303
Std Dev 0.9358

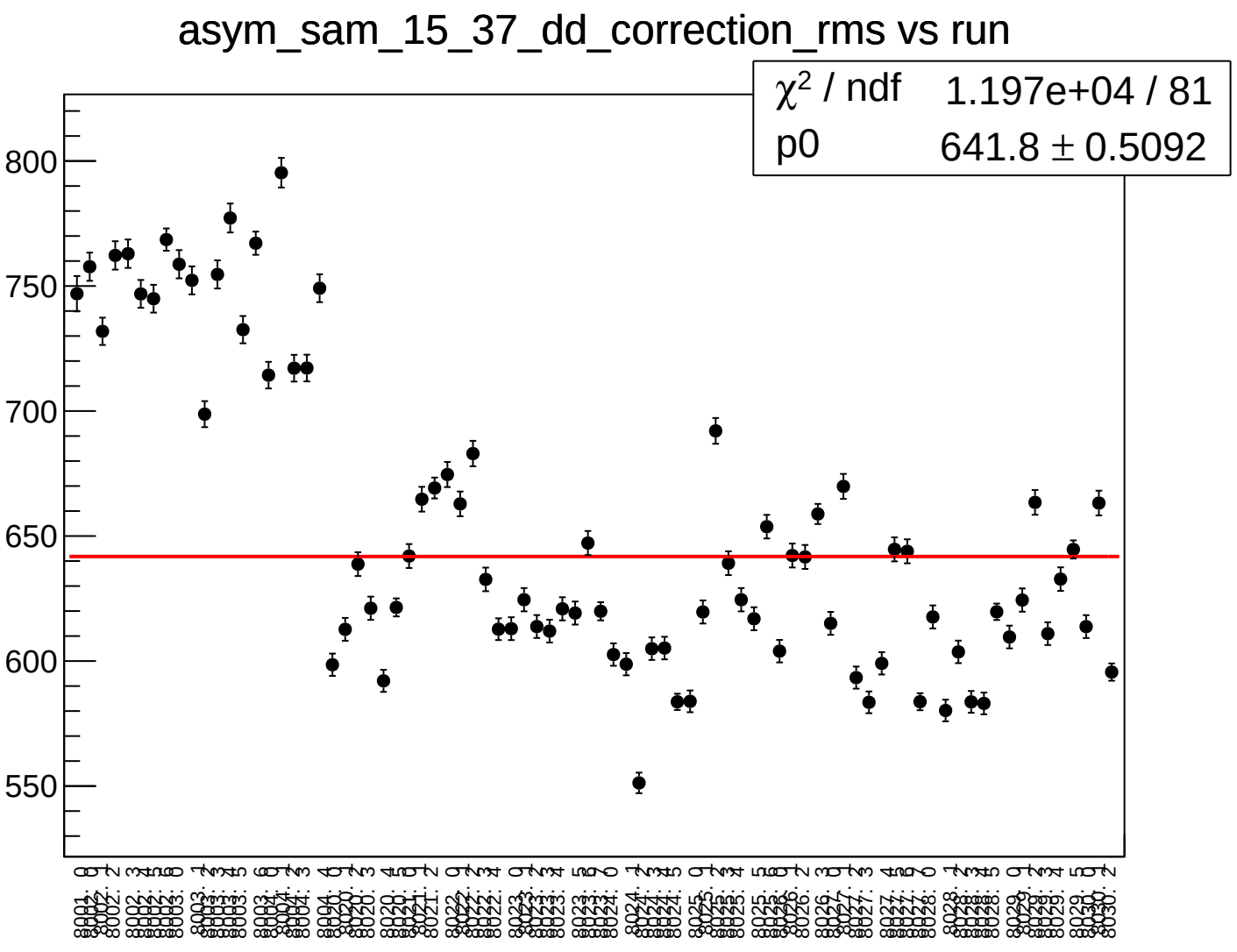

asym_sam_13_57_dd_rms vs run
χ² / ndf 8095 / 81
p0 508.5 ± 0.4029
600
550
500
450
400

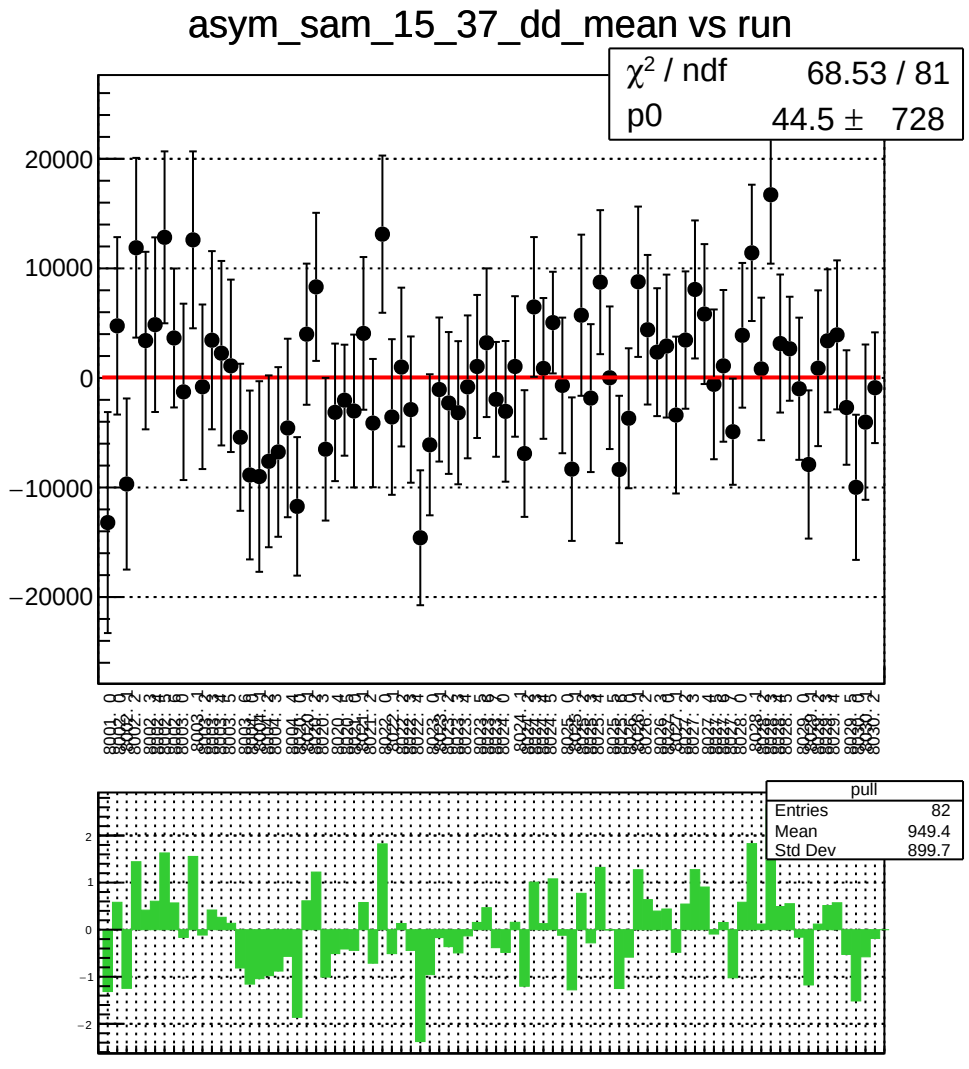

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 74.53 / 81
p0 −54.91± 74.29
2000
1000
0
−1000
−2000
−3000
pull
Entries 82
Mean 2846
Std Dev 2794
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

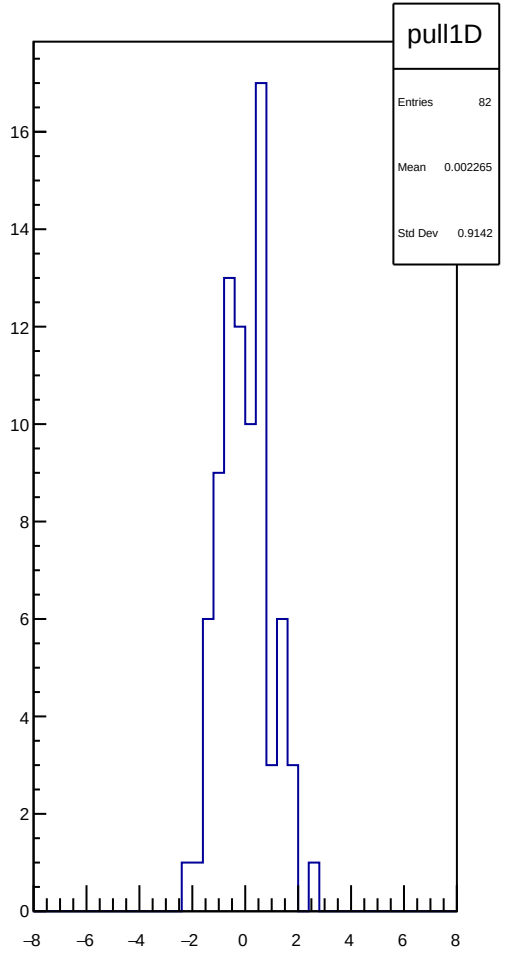

pull1D
Entries 82
Mean −0.001525
Std Dev 0.9534
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

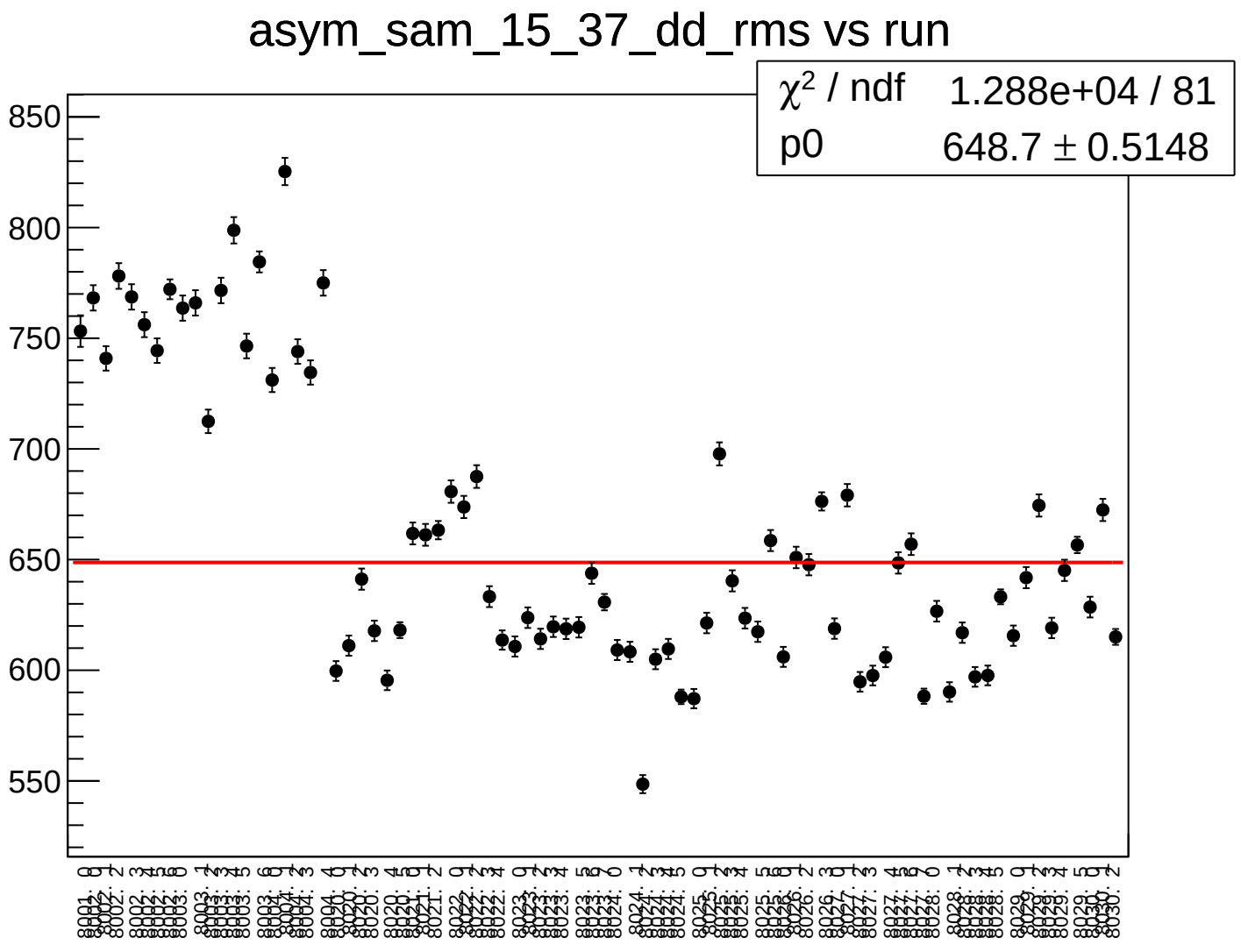

dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 4.627e+04 / 81
p0 65.49 ± 0.05253
100
90
80
70
60
50

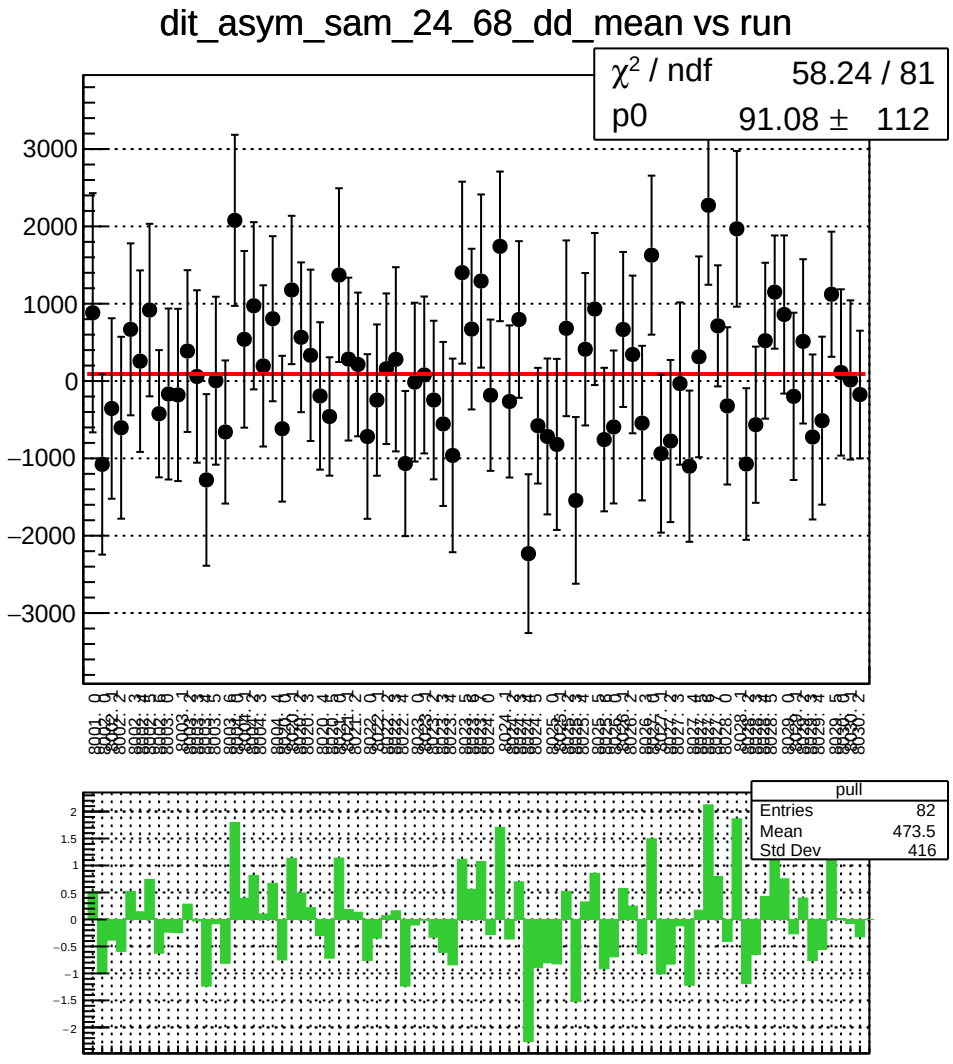

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 67.78 / 81
p0 −61.58 ± 720.1
20000
10000
0
−10000
−20000
pull
Entries 82
Mean 1121
Std Dev 1070
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.002015
Std Dev 0.9092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

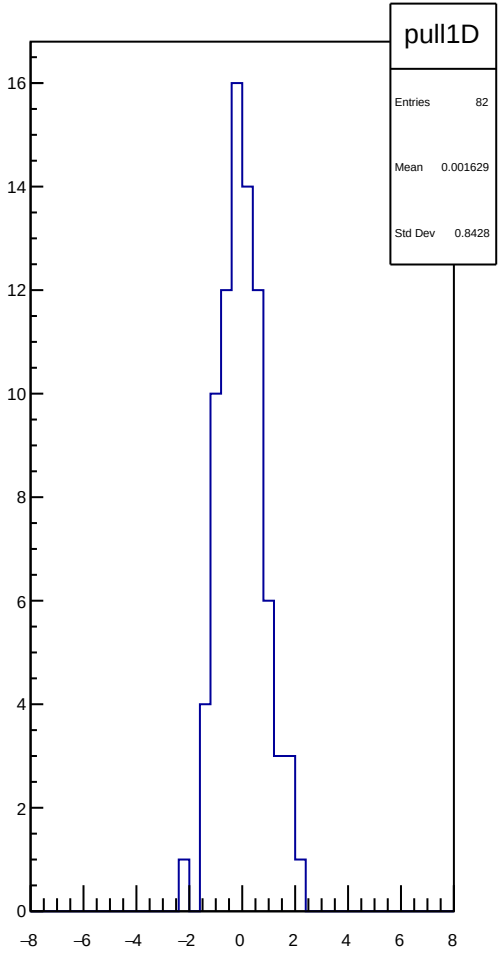

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 1.197e+04 / 81
p0 641.8 ± 0.5092
800
750
700
650
600
550

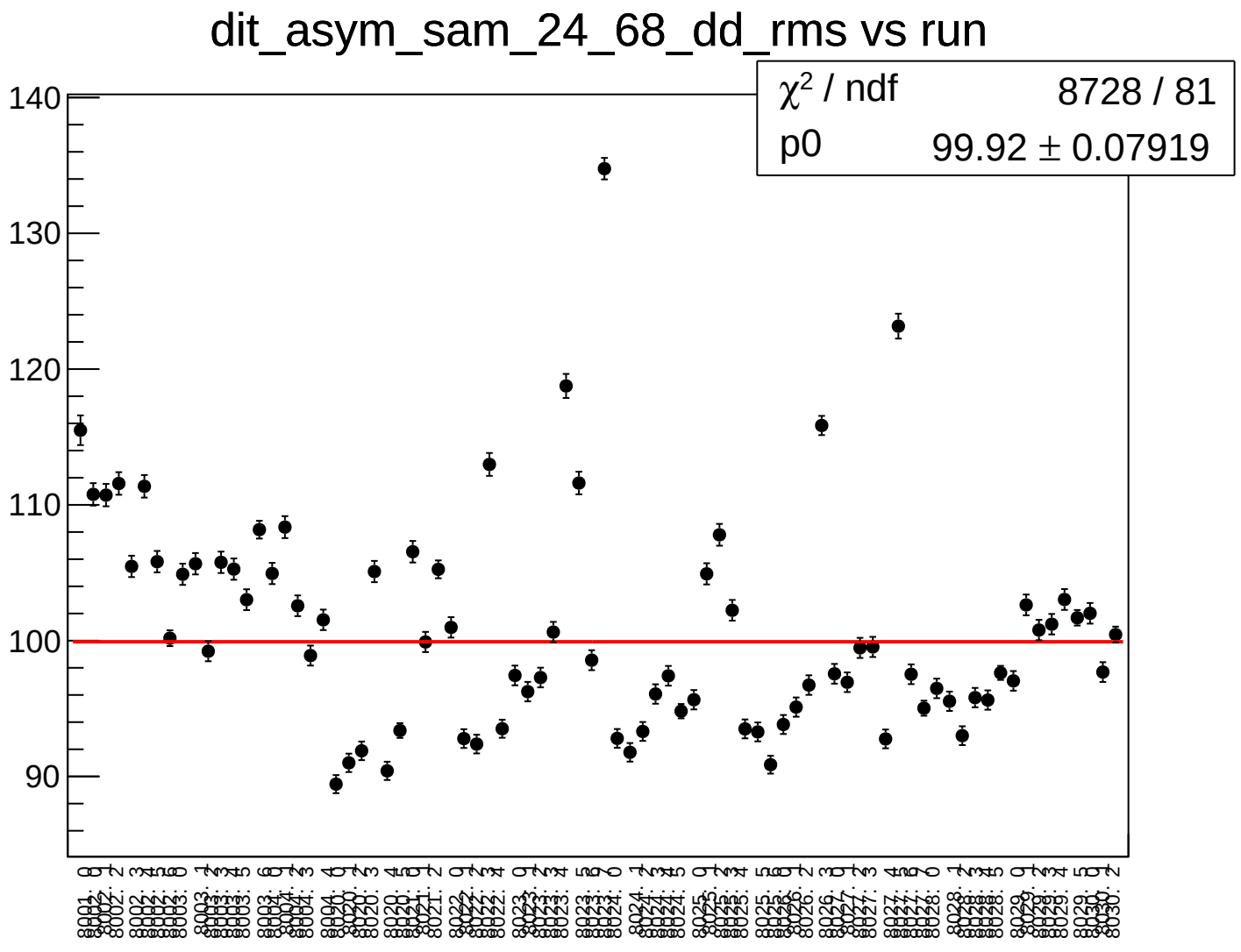

asym_sam_15_37_dd_mean vs run
χ² / ndf 68.53 / 81
p0 44.5 ± 728
20000
10000
0
−10000
−20000
pull
Entries 82
Mean 949.4
Std Dev 899.7
2
1
0
−1
−2

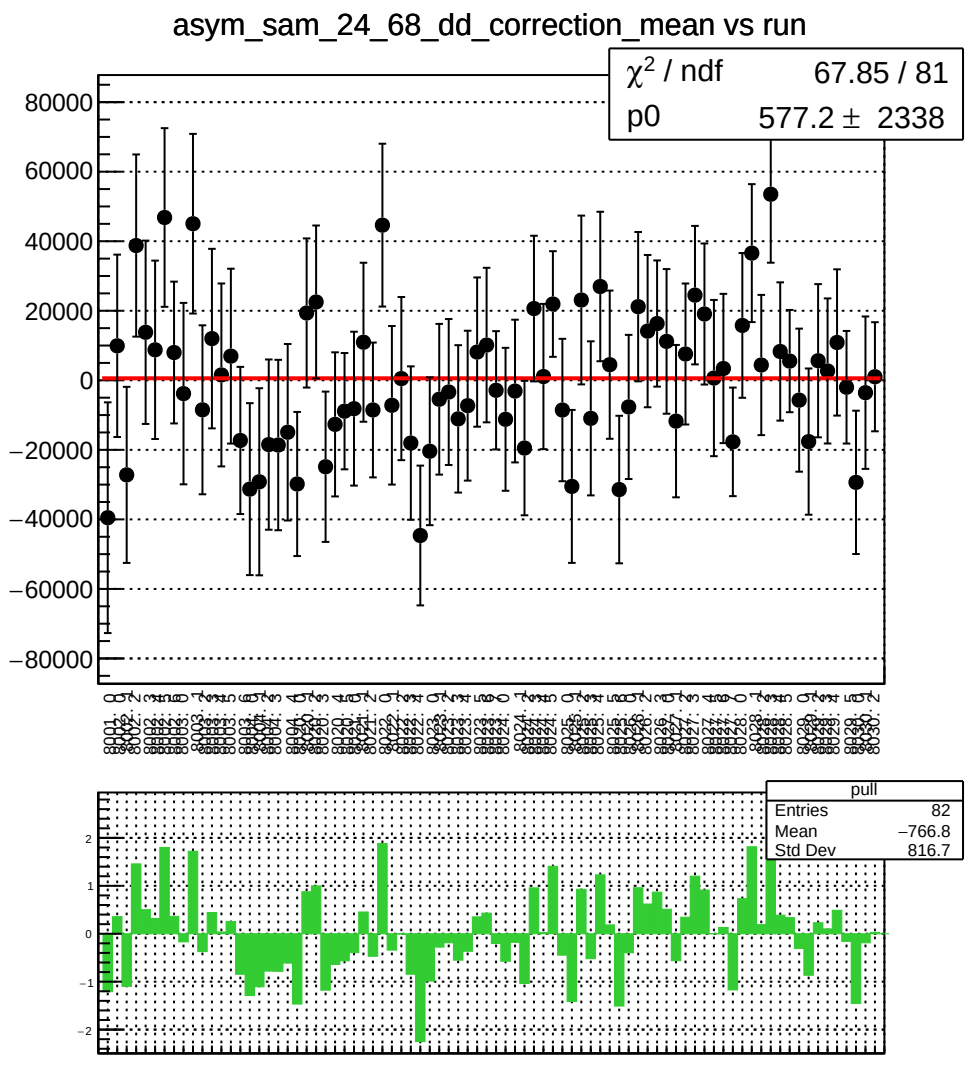

pull1D
Entries 82
Mean 0.002265
Std Dev 0.9142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

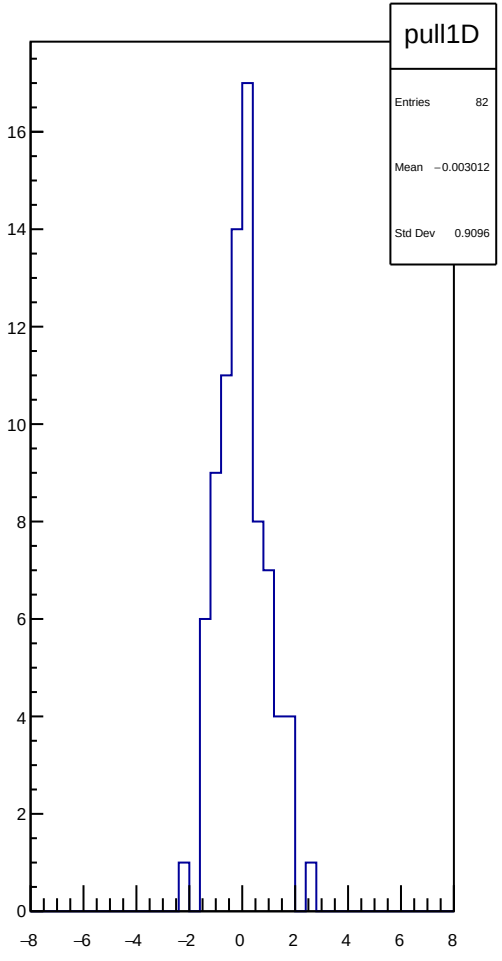

asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.288e+04 / 81
p0 648.7 ± 0.5148
850
800
750
700
650
600
550

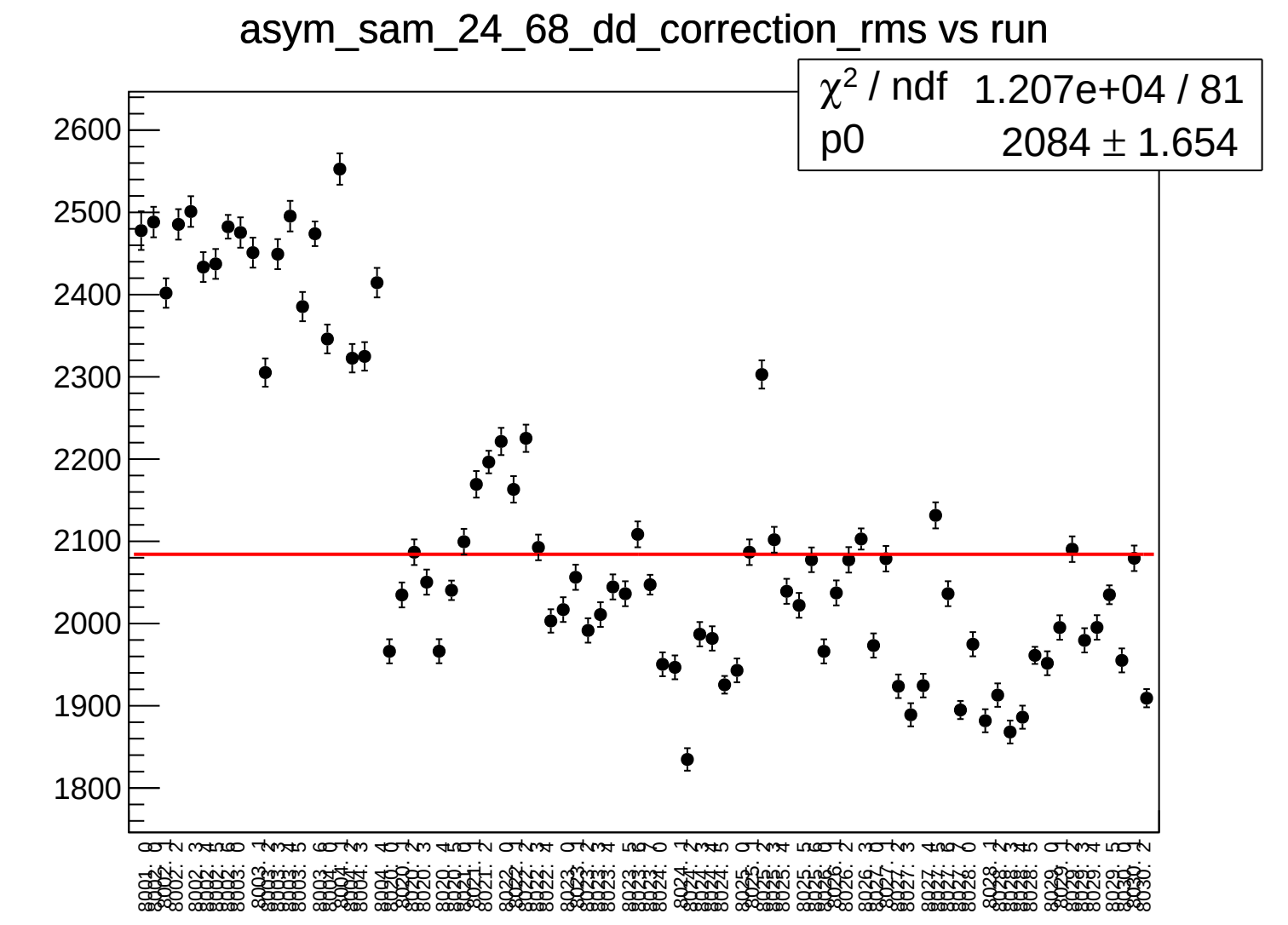

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 58.24 / 81
p0 91.08 ± 112
pull
Entries 82
Mean 473.5
Std Dev 416

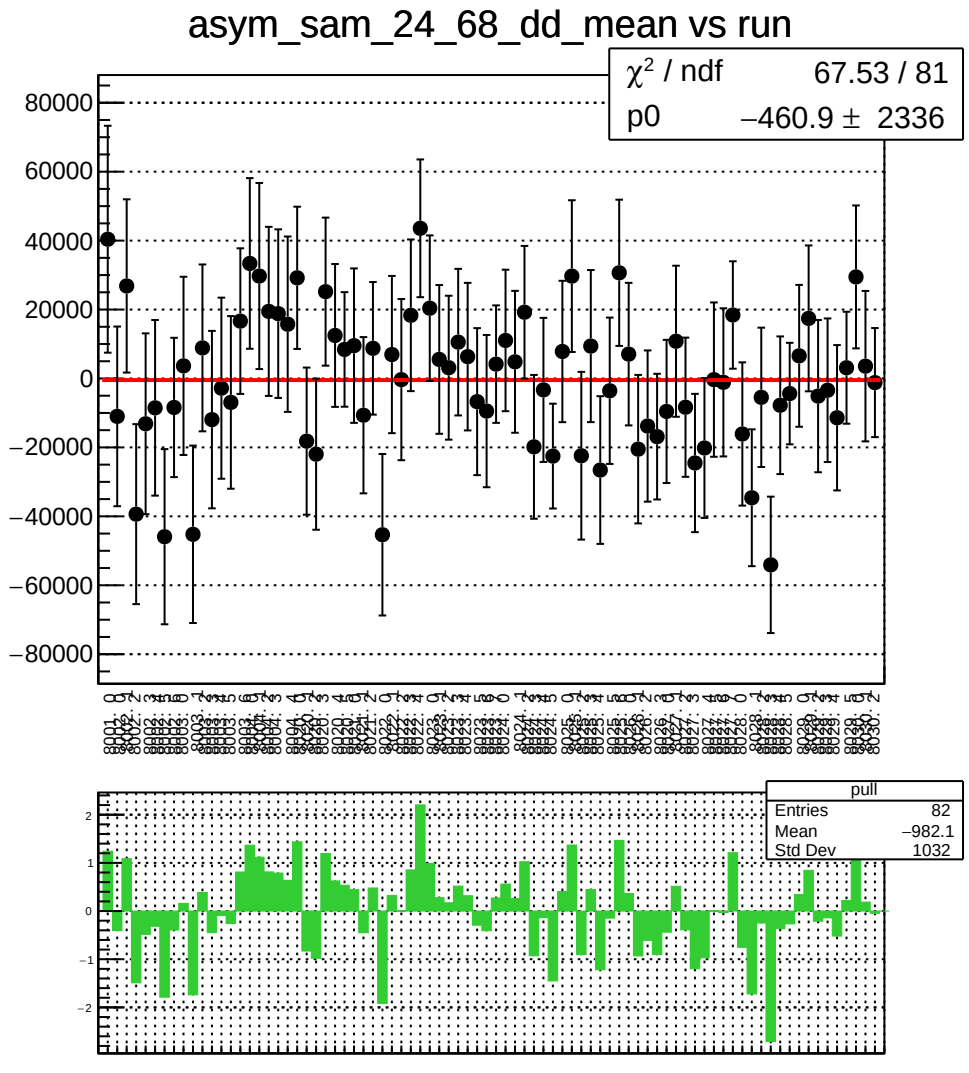

pull1D
Entries 82
Mean 0.001629
Std Dev 0.8428

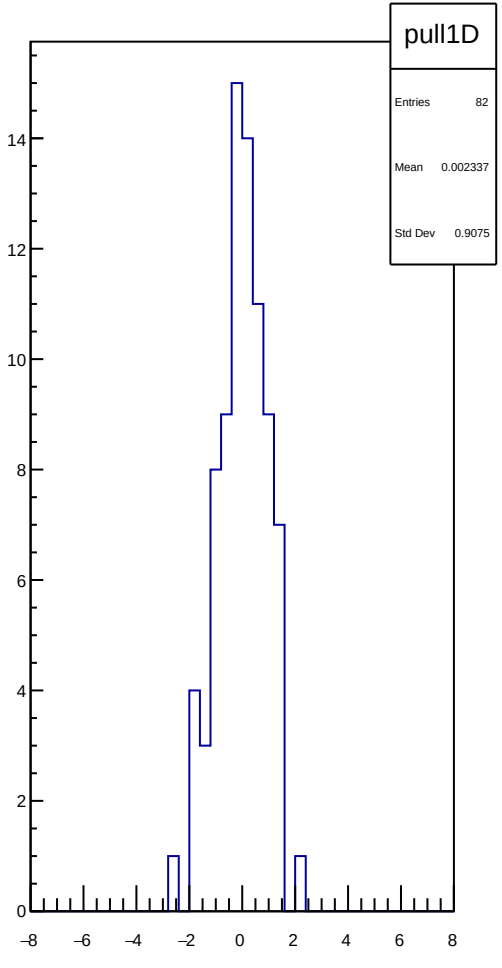

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 8728 / 81
p0 99.92 ± 0.07919
140
130
120
110
100
90

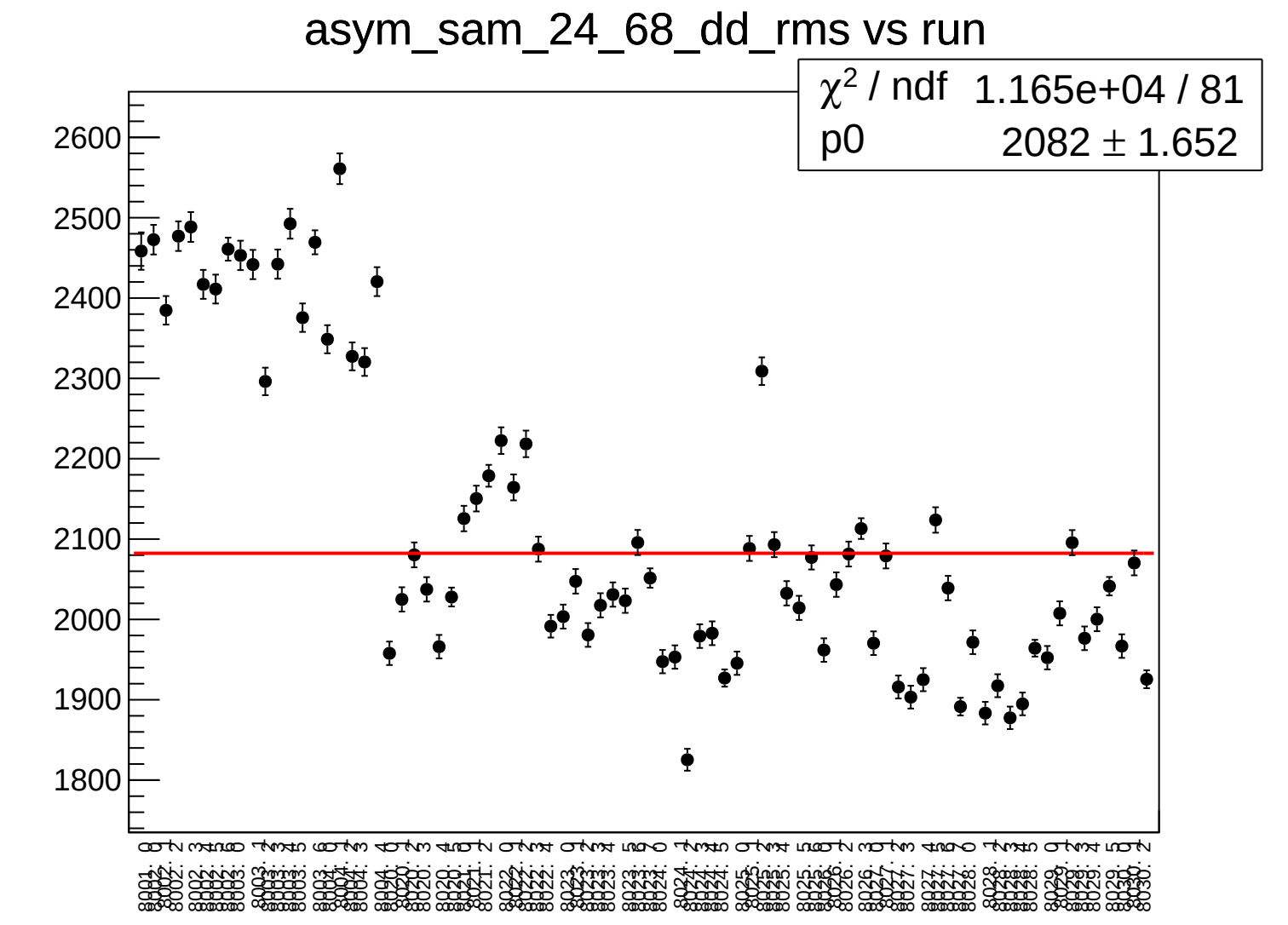

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 67.85 / 81
p0 577.2 ± 2338
pull
Entries 82
Mean −766.8
Std Dev 816.7

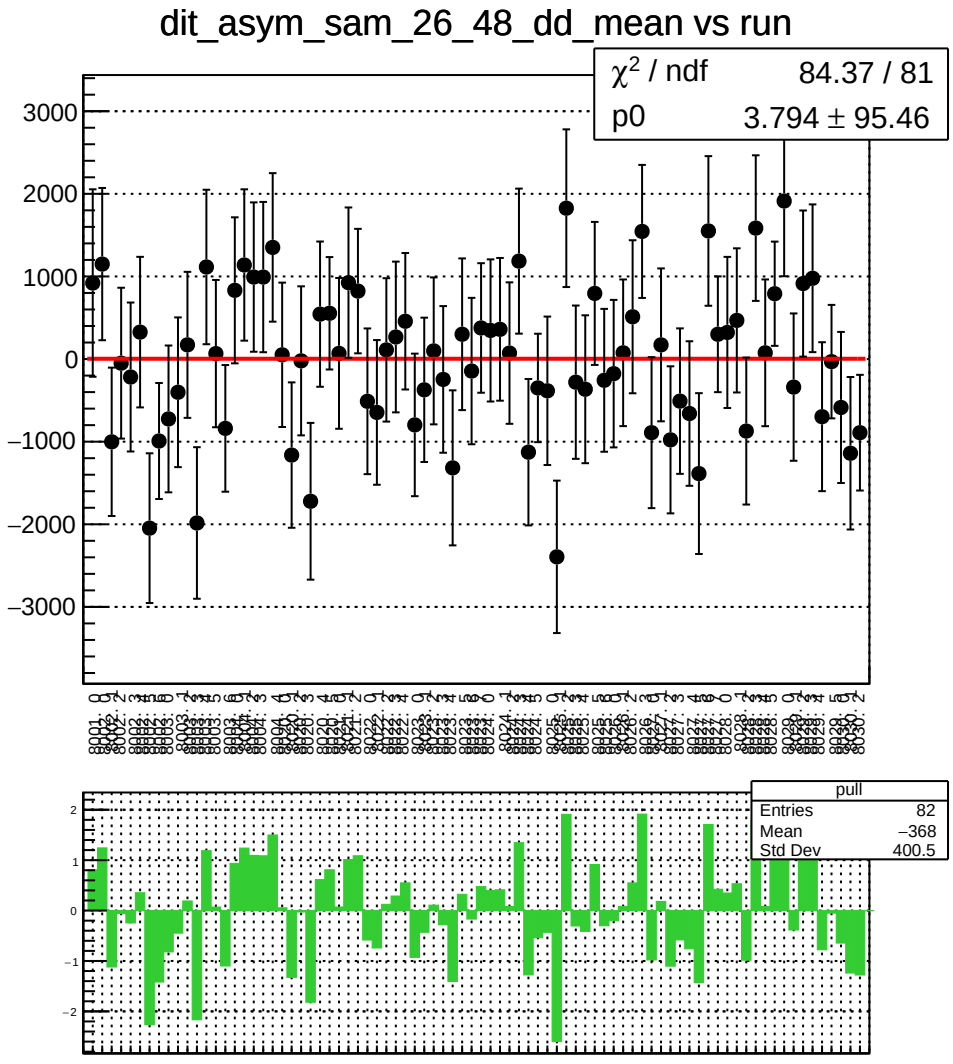

pull1D
Entries 82
Mean −0.003012
Std Dev 0.9096

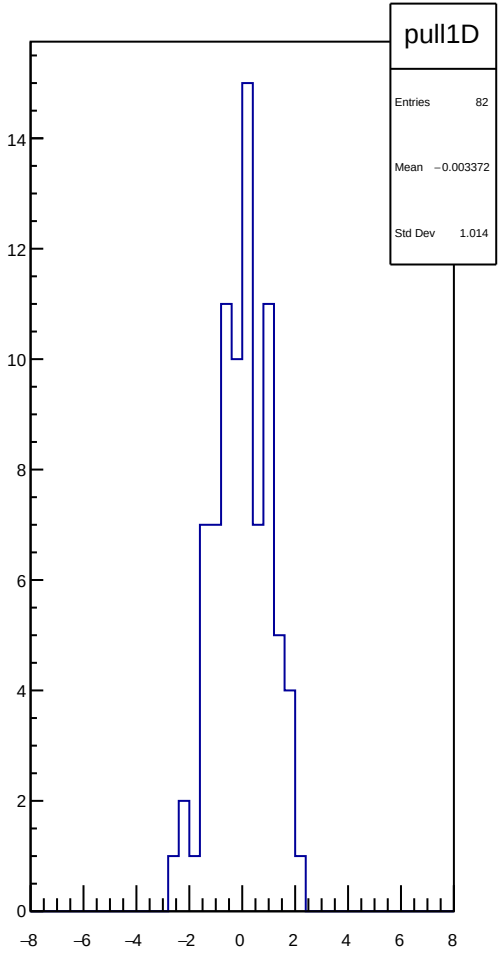

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 1.207e+04 / 81
p0 2084 ± 1.654
2600
2500
2400
2300
2200
2100
2000
1900
1800

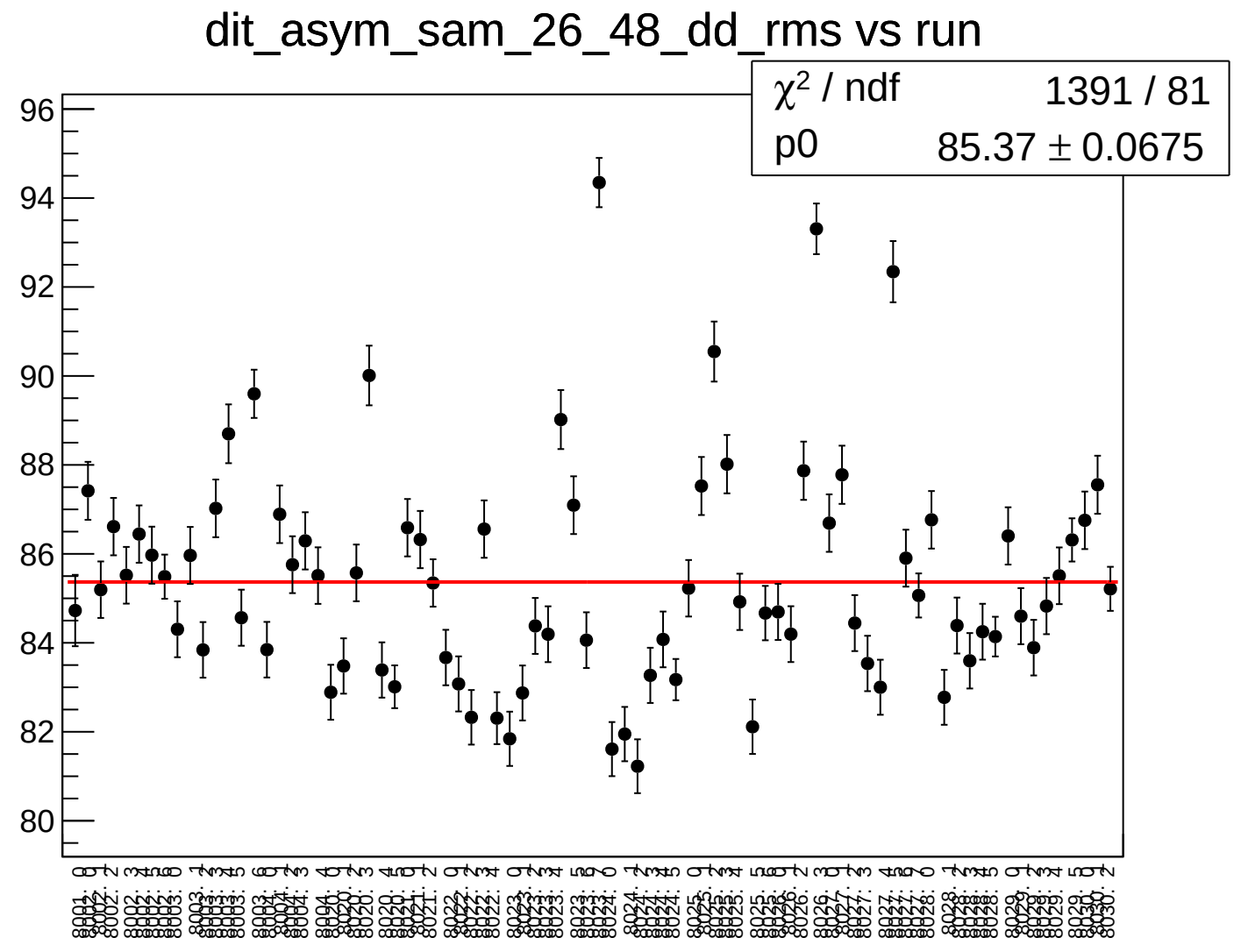

asym_sam_24_68_dd_mean vs run
χ² / ndf 67.53 / 81
p0 −460.9 ± 2336
pull
Entries 82
Mean −982.1
Std Dev 1032

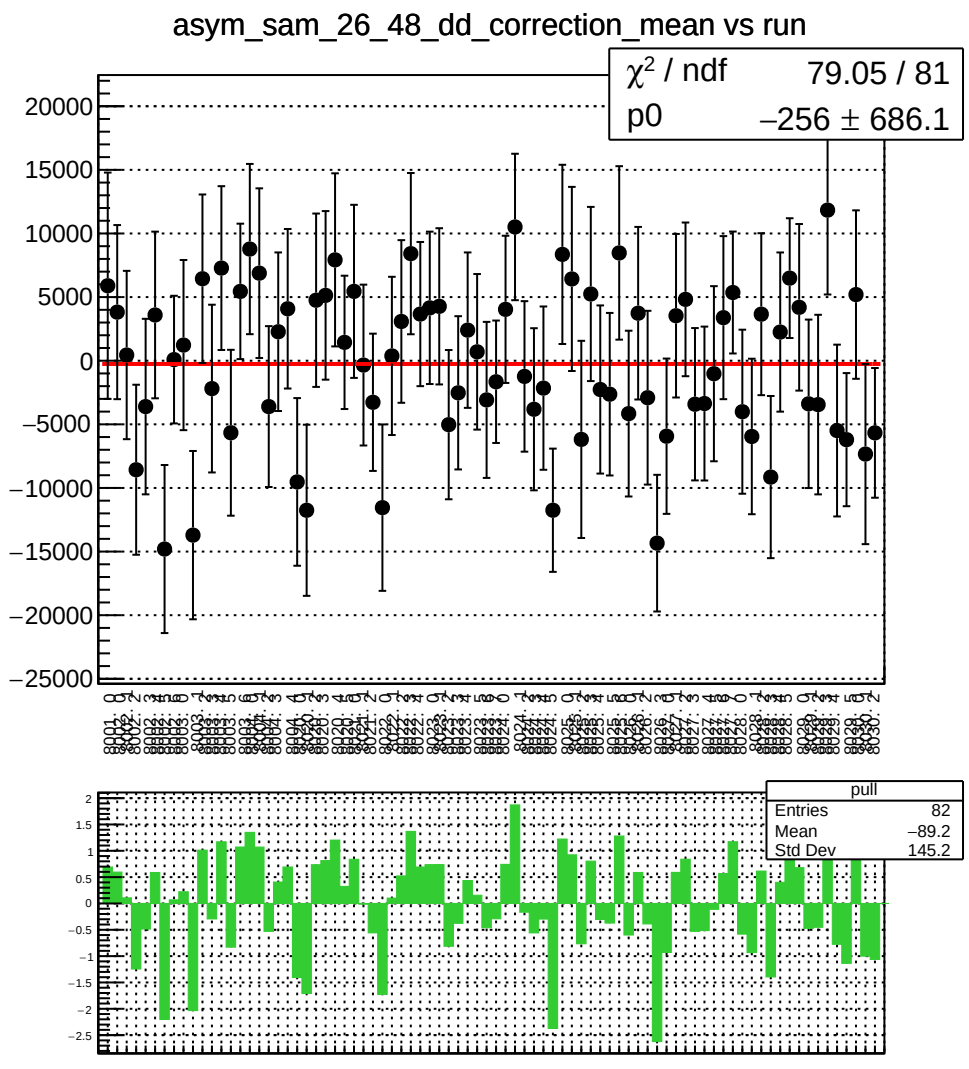

pull1D
Entries 82
Mean 0.002337
Std Dev 0.9075

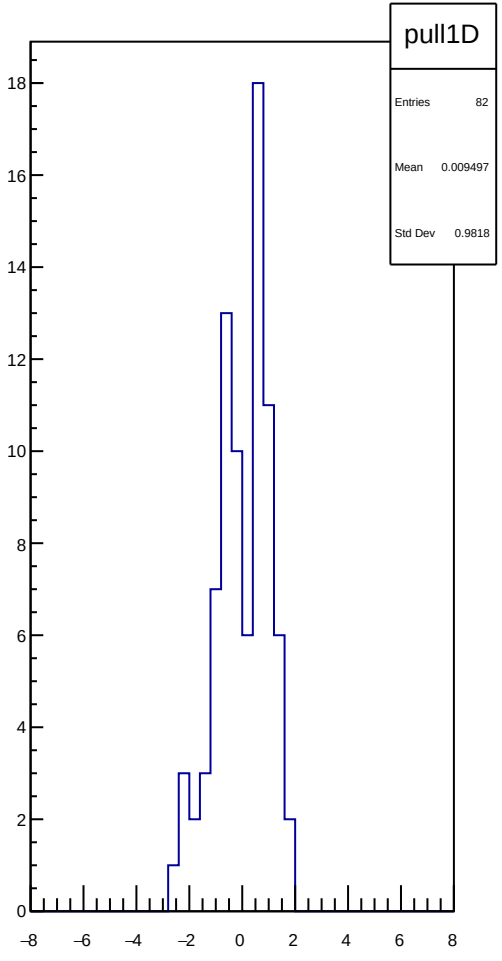

asym_sam_24_68_dd_rms vs run
χ² / ndf 1.165e+04 / 81
p0 2082 ± 1.652
2600
2500
2400
2300
2200
2100
2000
1900
1800

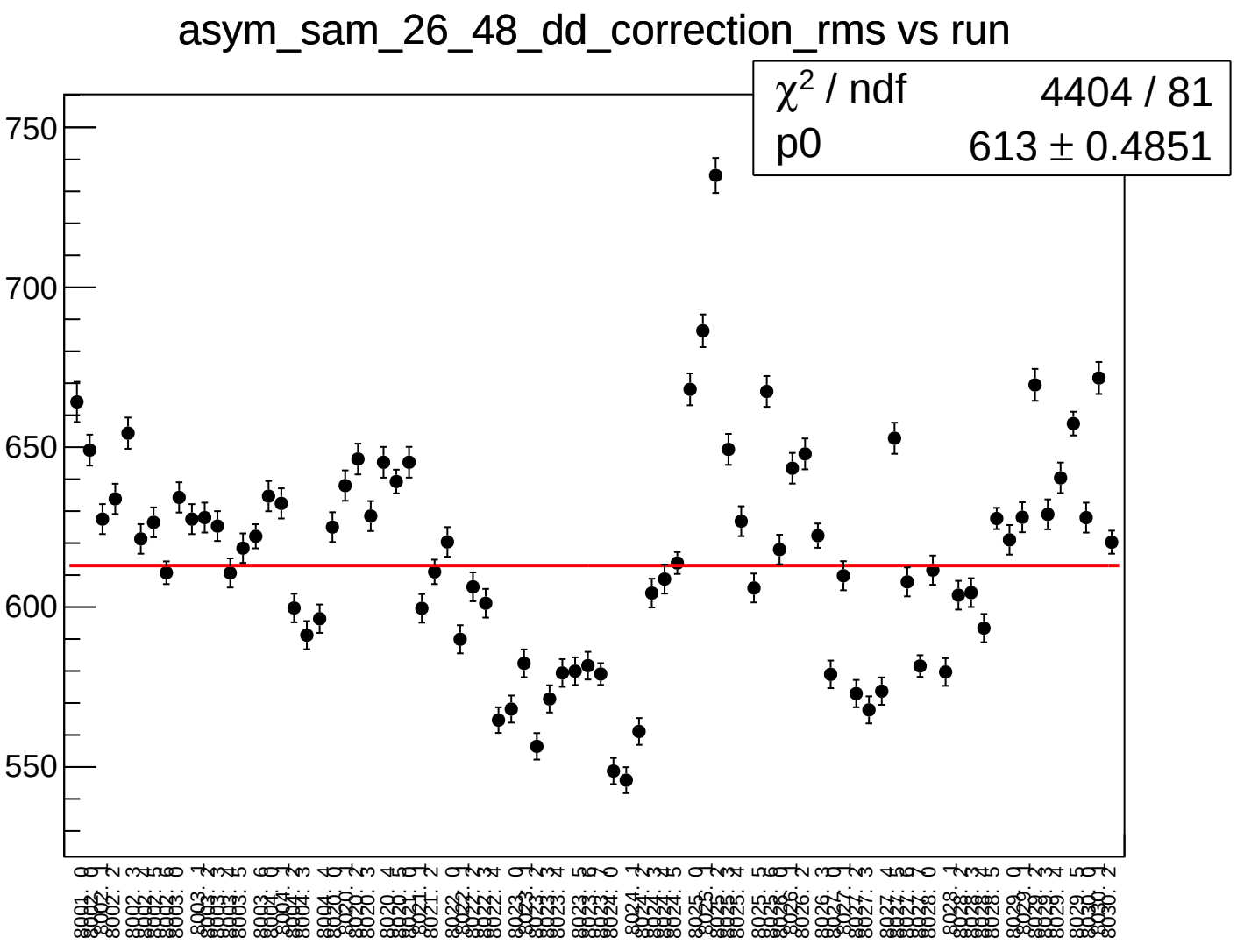

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 84.37 / 81
p0 3.794 ± 95.46
pull
Entries 82
Mean −368
Std Dev 400.5

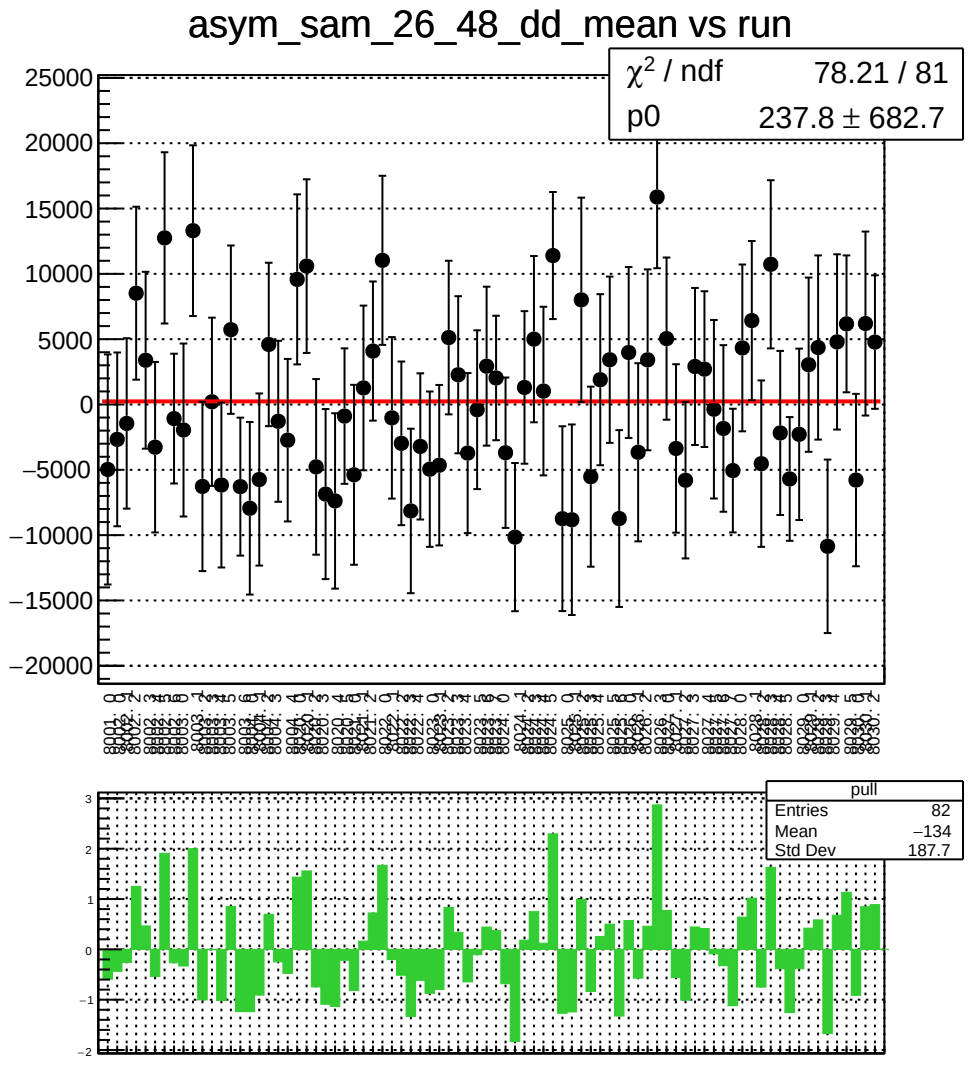

pull1D
Entries 82
Mean −0.003372
Std Dev 1.014

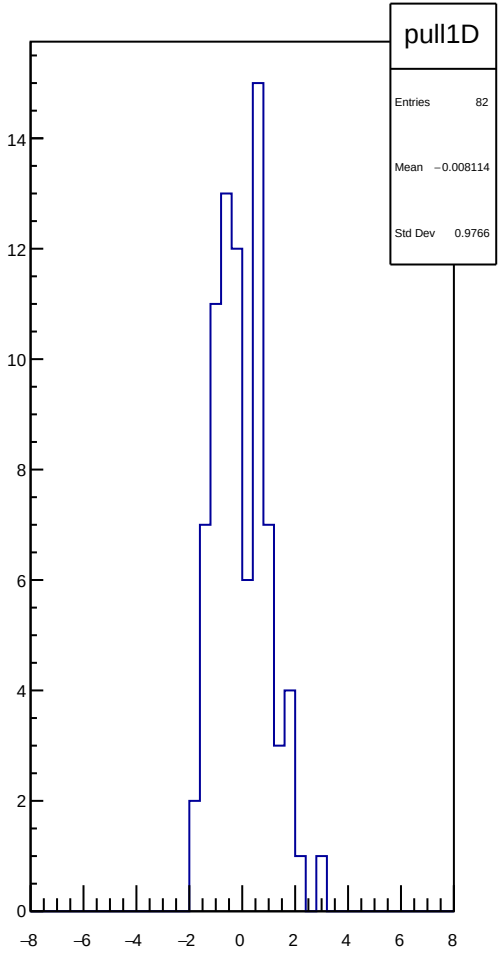

dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1391 / 81
p0 85.37 ± 0.0675
96
94
92
90
88
86
84
82
80

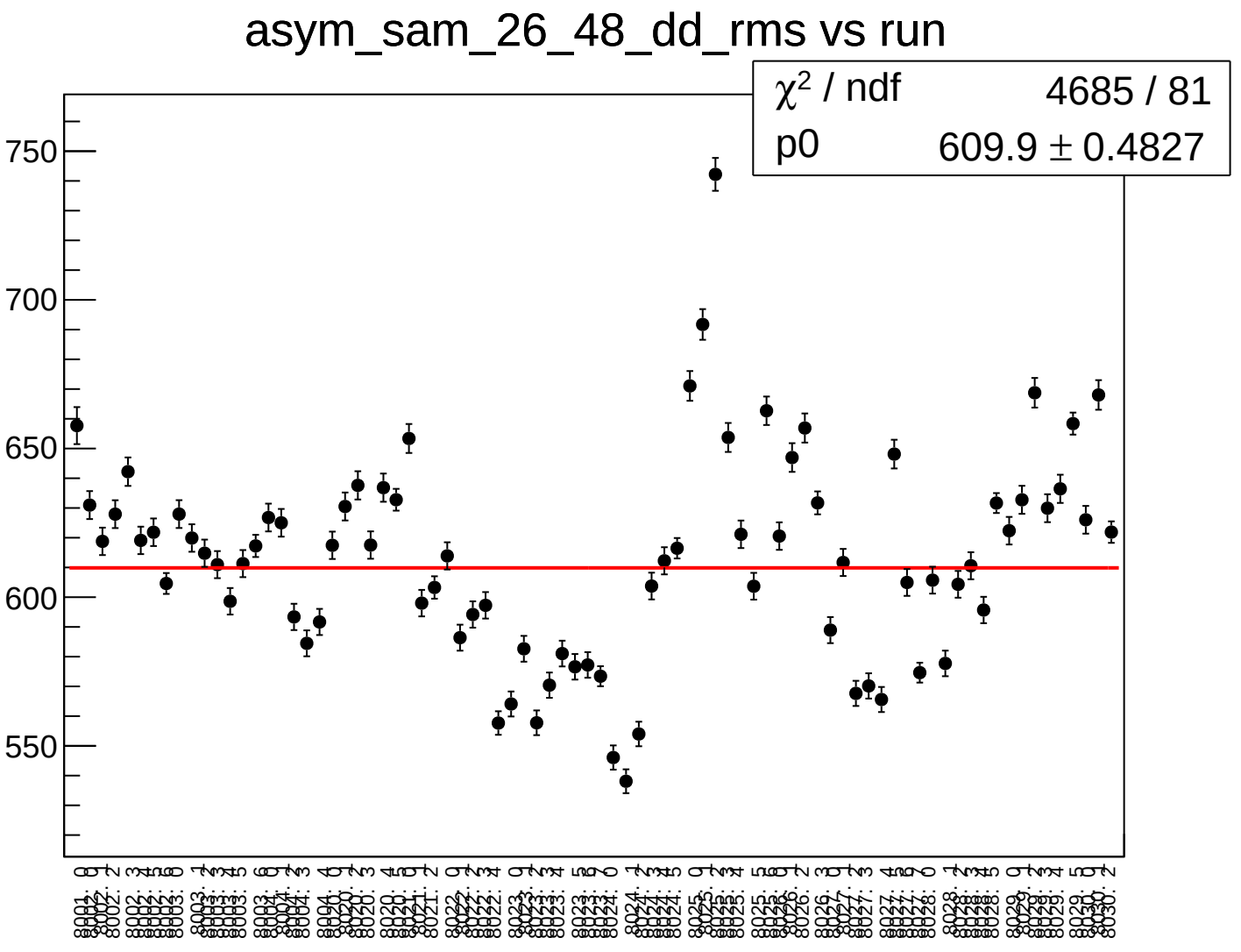

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 79.05 / 81
p0 −256 ± 686.1
pull
Entries 82
Mean −89.2
Std Dev 145.2

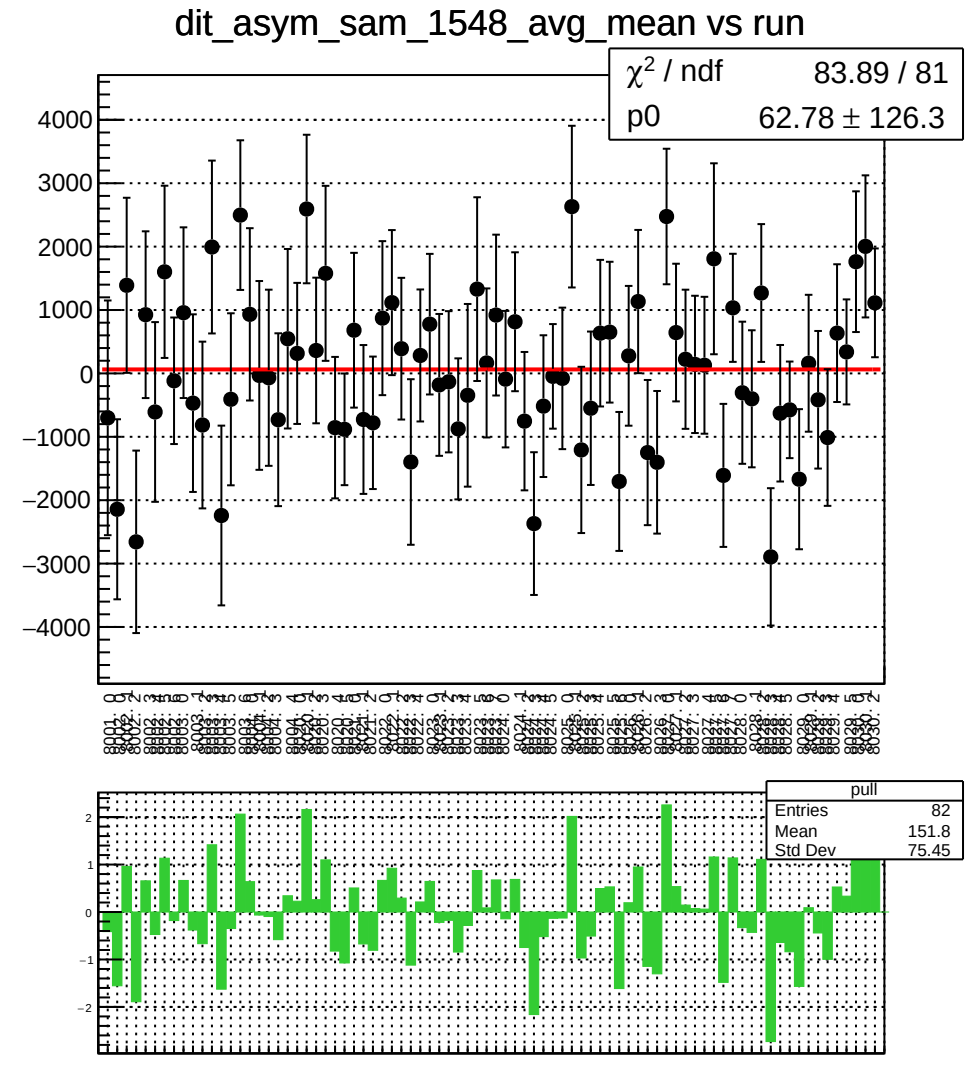

pull1D
Entries 82
Mean 0.009497
Std Dev 0.9818

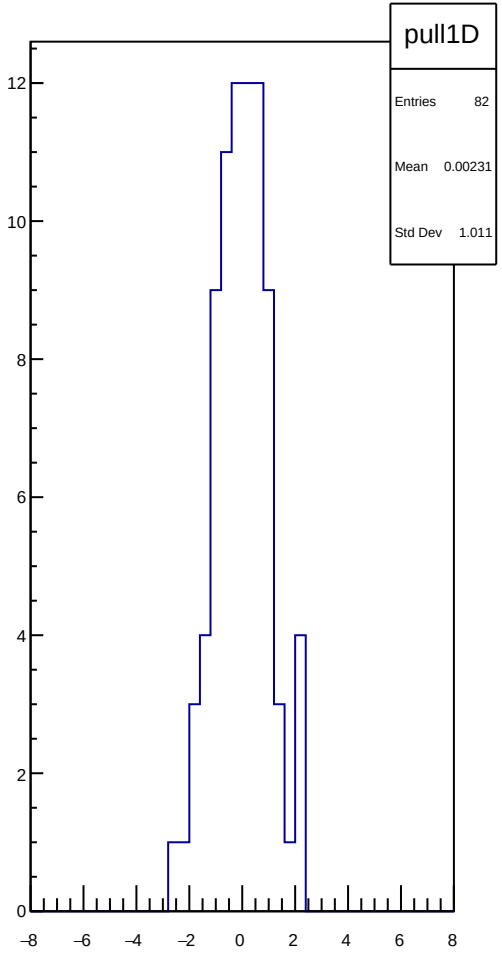

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 4404 / 81
p0 613 ± 0.4851
750
700
650
600
550

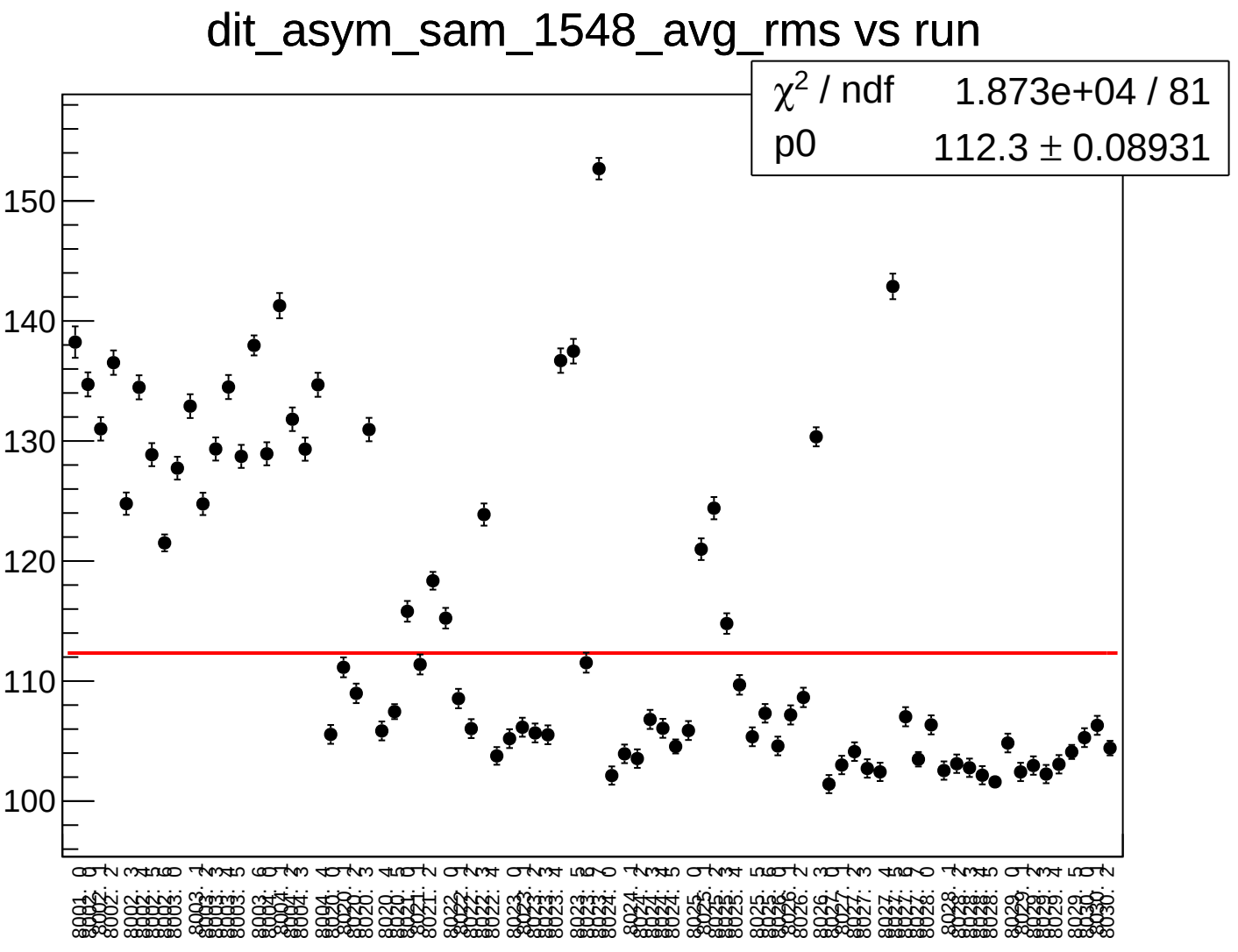

asym_sam_26_48_dd_mean vs run
χ² / ndf 78.21 / 81
p0 237.8 ± 682.7
pull
Entries 82
Mean −134
Std Dev 187.7

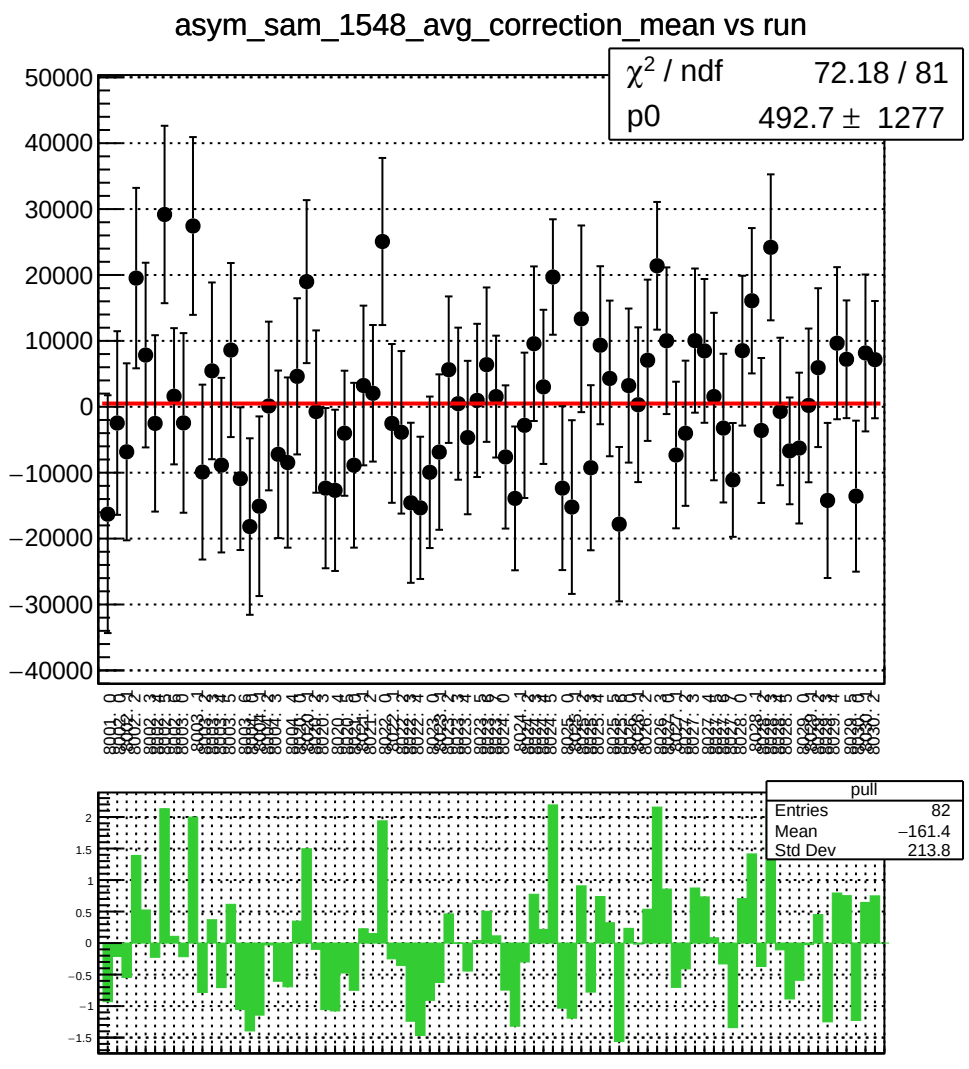

pull1D
Entries 82
Mean −0.008114
Std Dev 0.9766

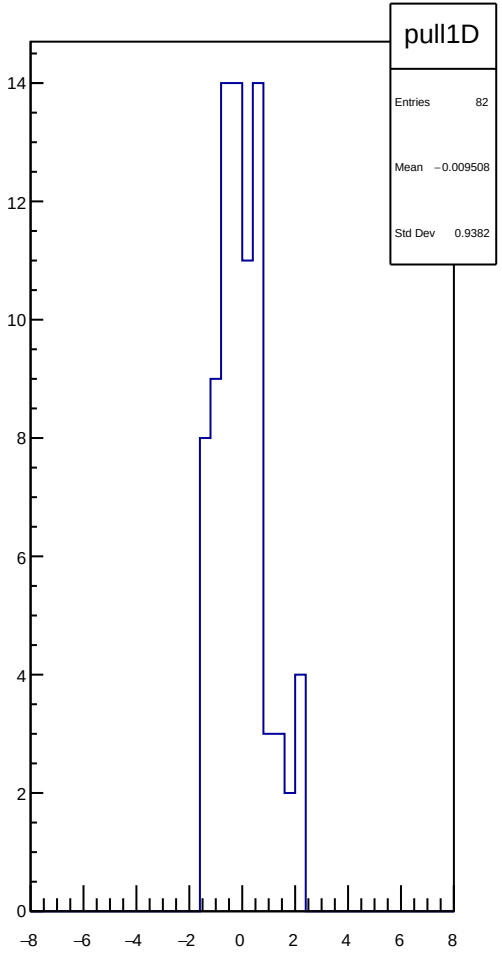

asym_sam_26_48_dd_rms vs run
χ² / ndf 4685 / 81
p0 609.9 ± 0.4827
750
700
650
600
550

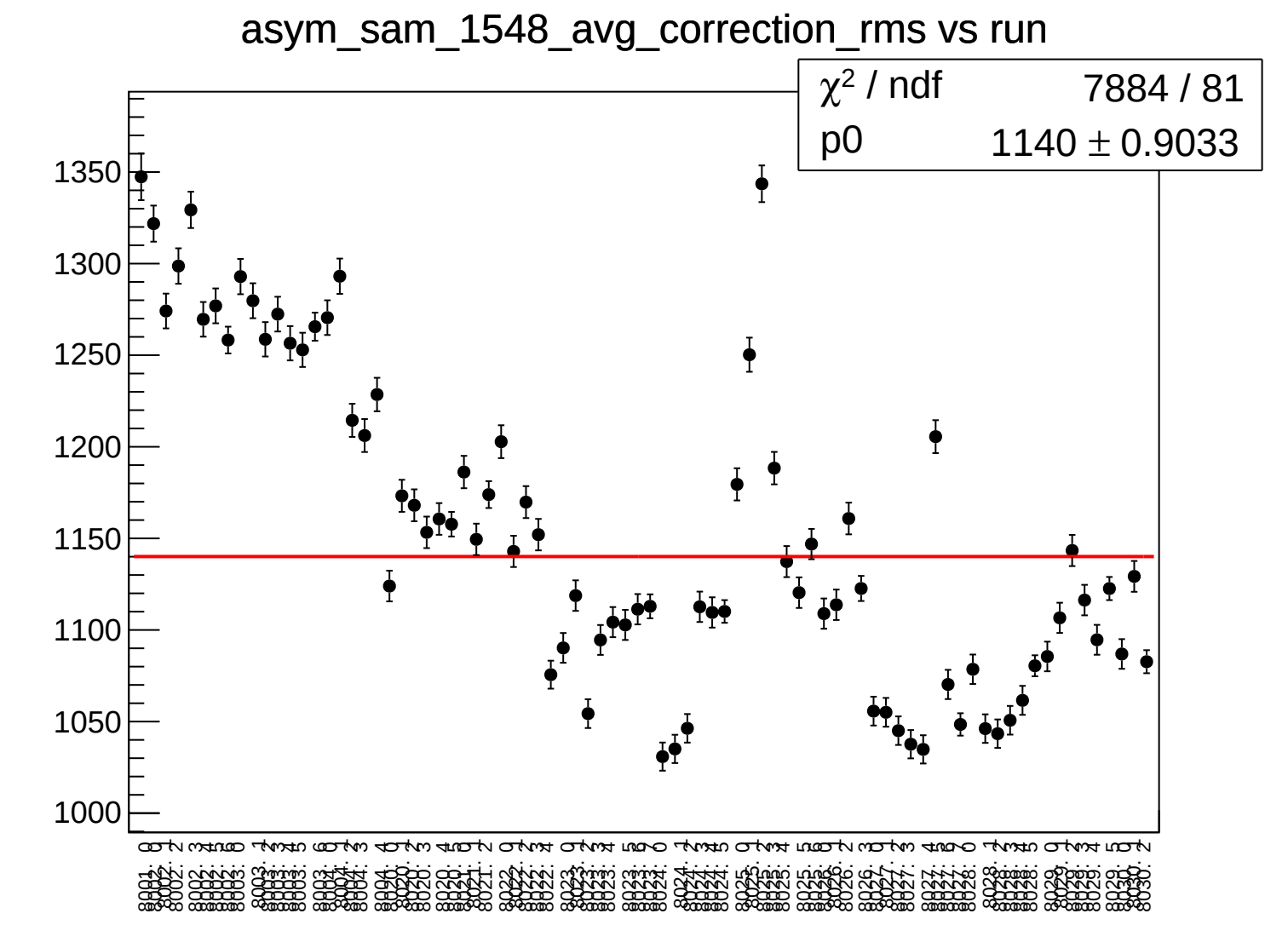

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 83.89 / 81
p0 62.78 ± 126.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 82
Mean 151.8
Std Dev 75.45
2
1
0
−1
−2

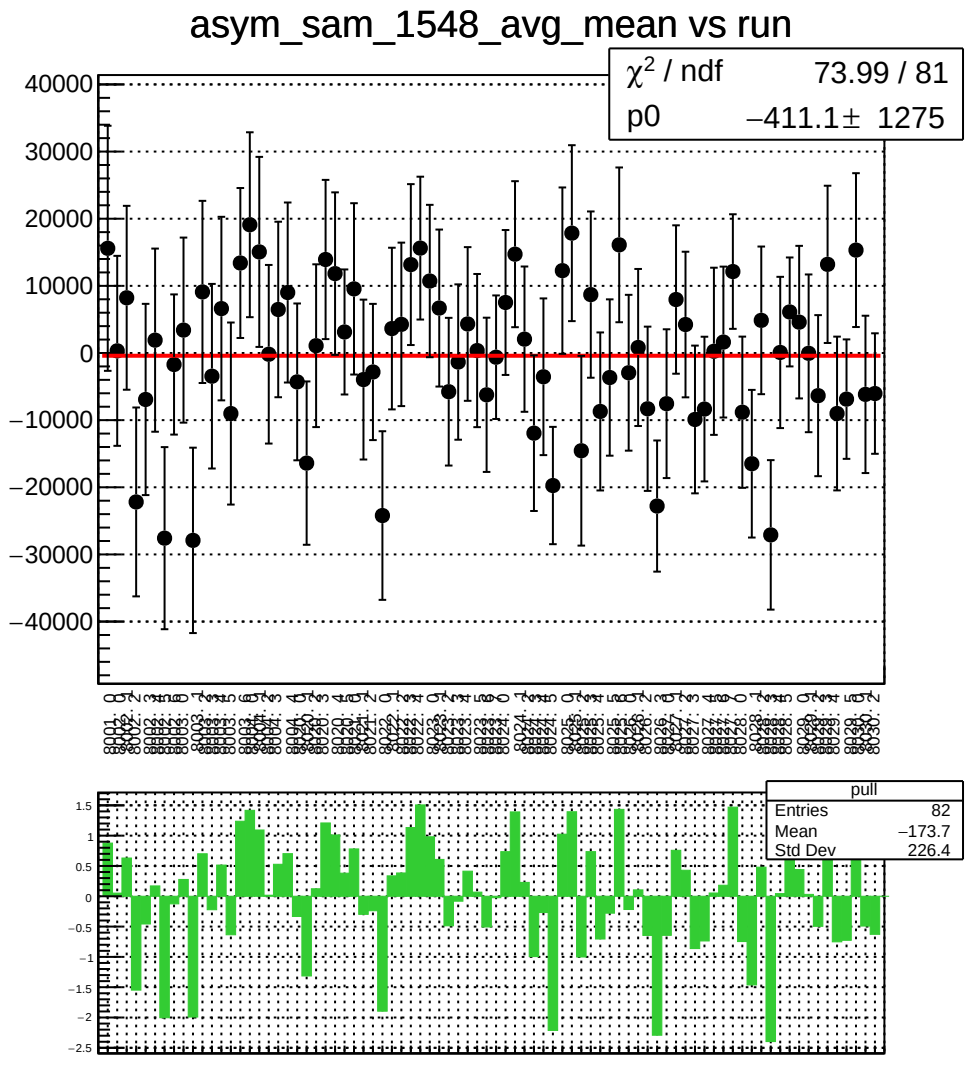

pull1D
Entries 82
Mean 0.00231
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

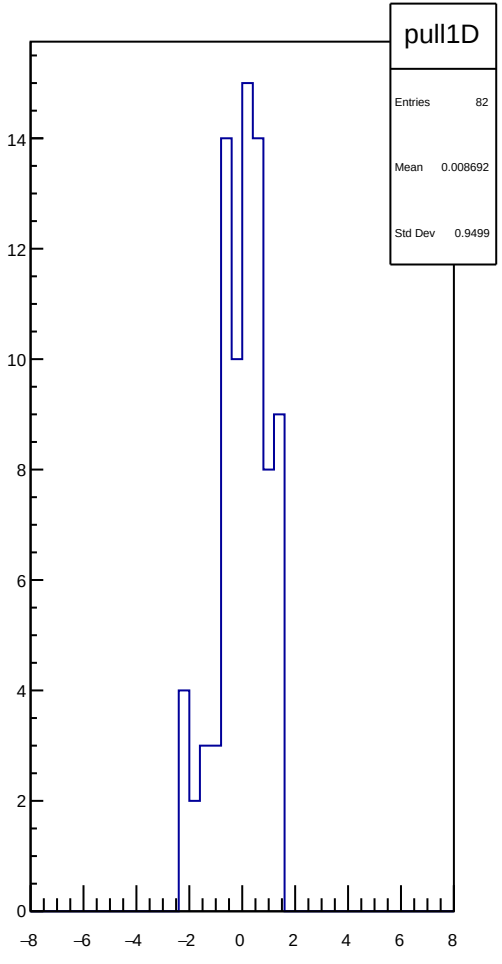

dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 1.873e+04 / 81
p0 112.3 ± 0.08931
150
140
130
120
110
100

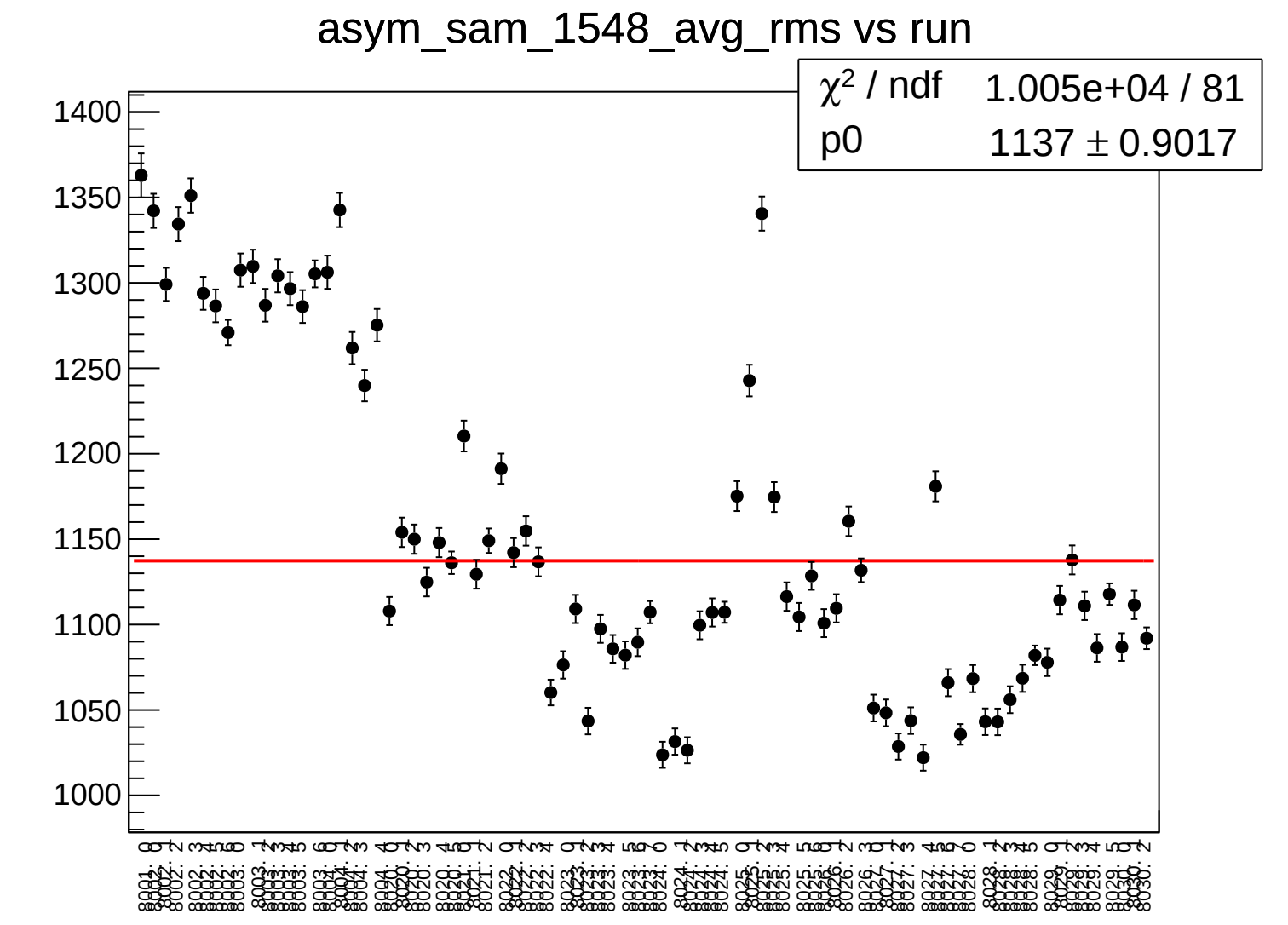

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 72.18 / 81
p0 492.7 ± 1277
pull
Entries 82
Mean −161.4
Std Dev 213.8

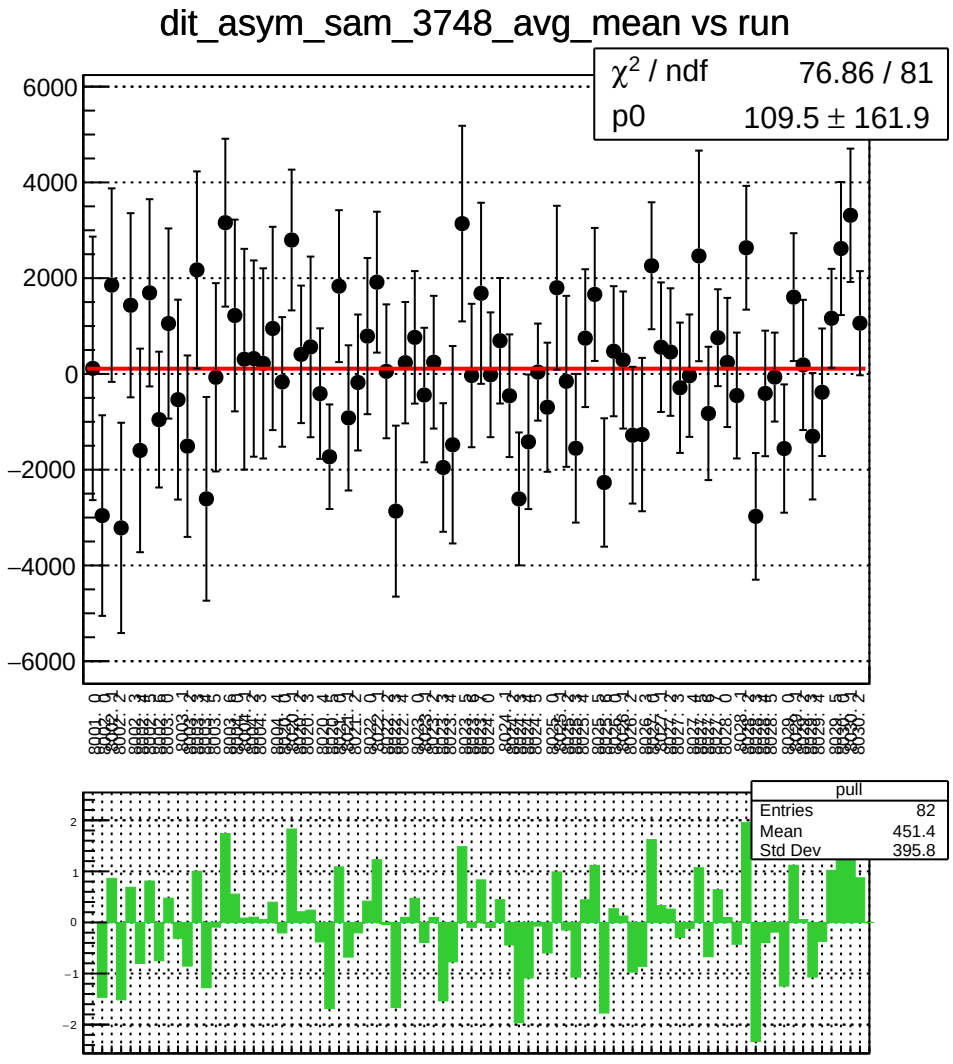

pull1D
Entries 82
Mean −0.009508
Std Dev 0.9382

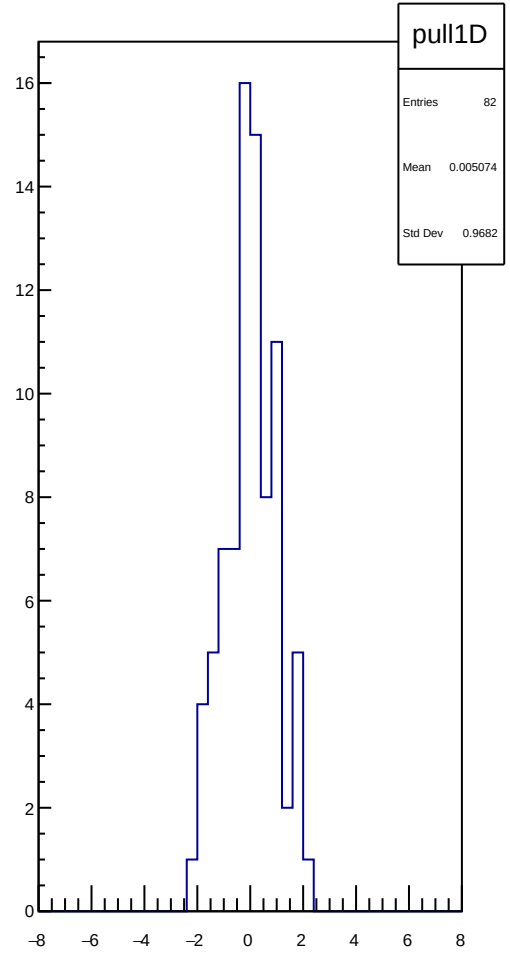

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 7884 / 81
p0 1140 ± 0.9033
1350
1300
1250
1200
1150
1100
1050
1000

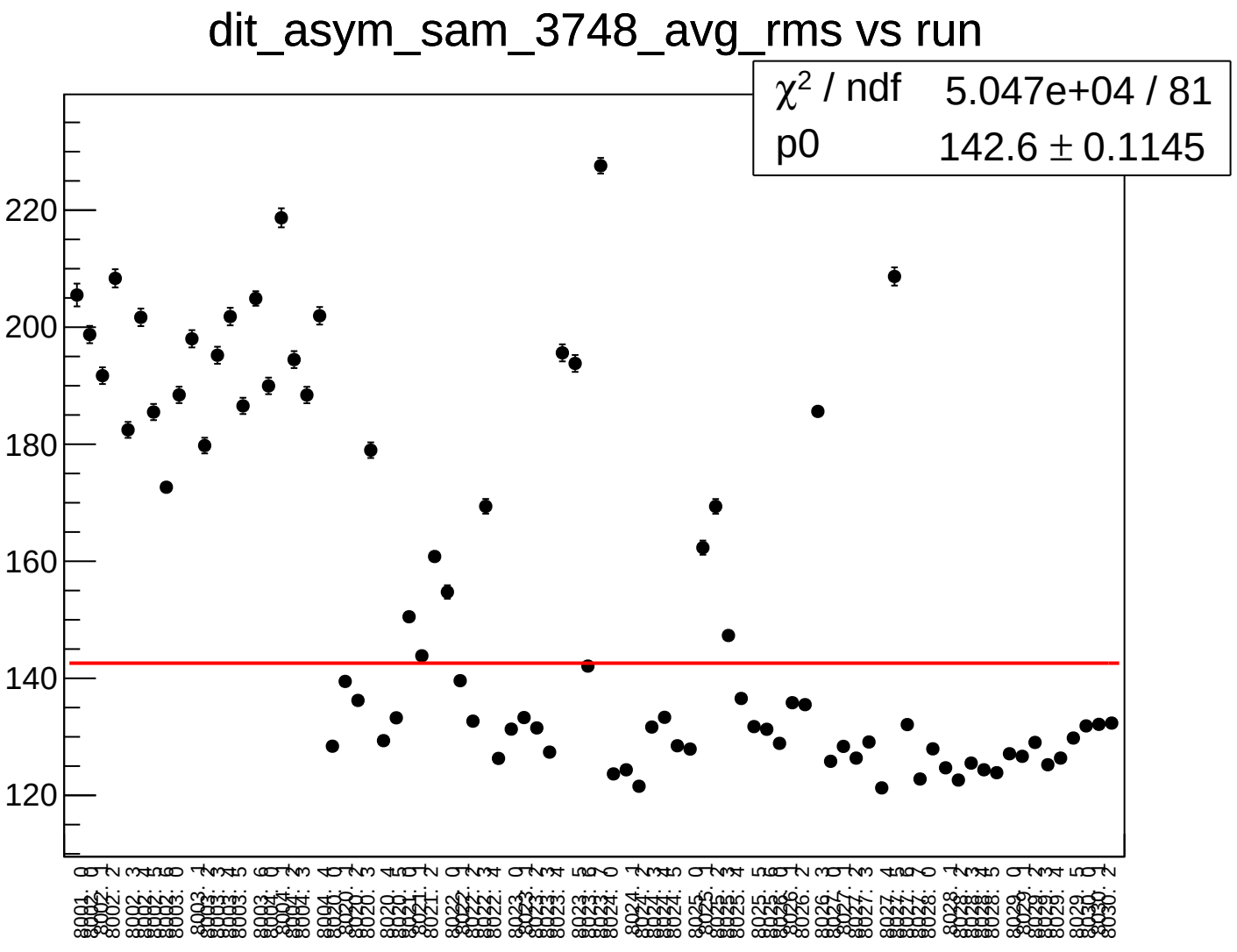

asym_sam_1548_avg_mean vs run
χ² / ndf 73.99 / 81
p0 −411.1± 1275
pull
Entries 82
Mean −173.7
Std Dev 226.4

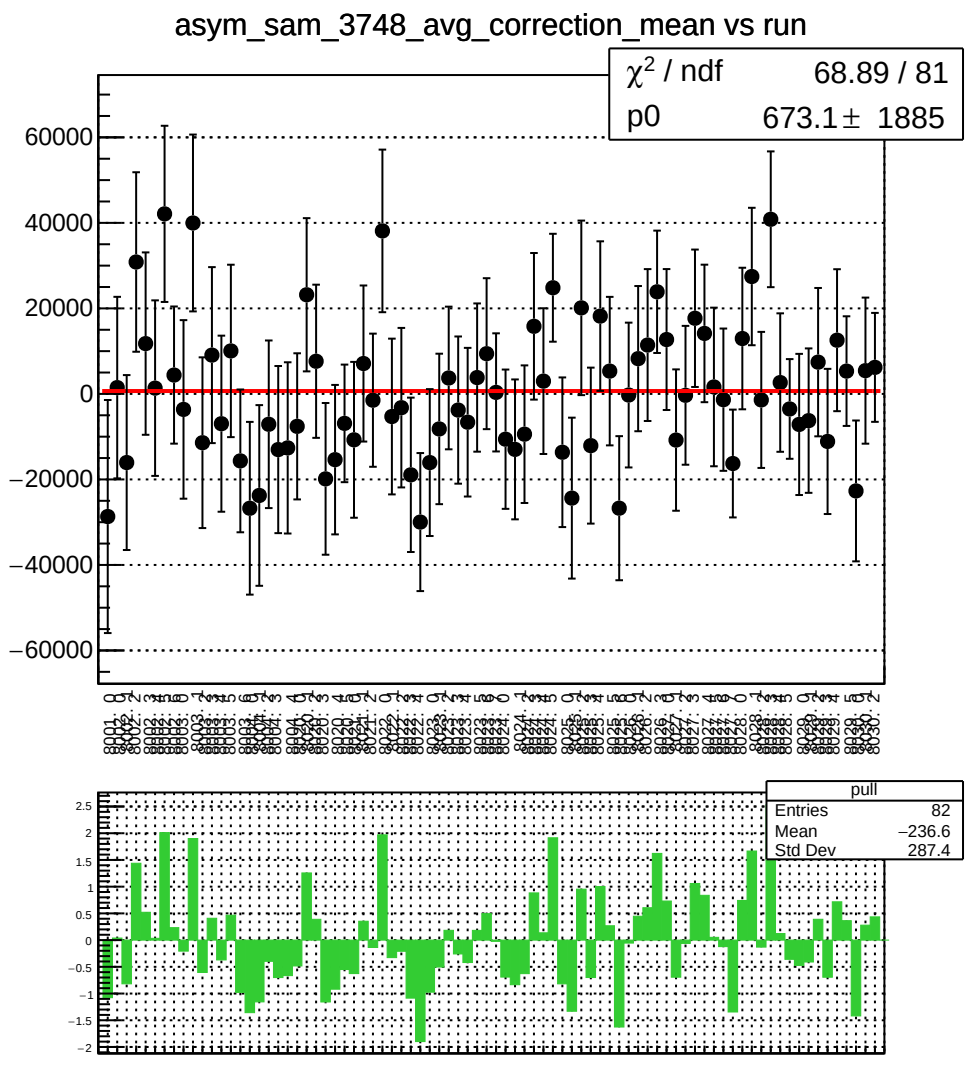

pull1D
Entries 82
Mean 0.008692
Std Dev 0.9499

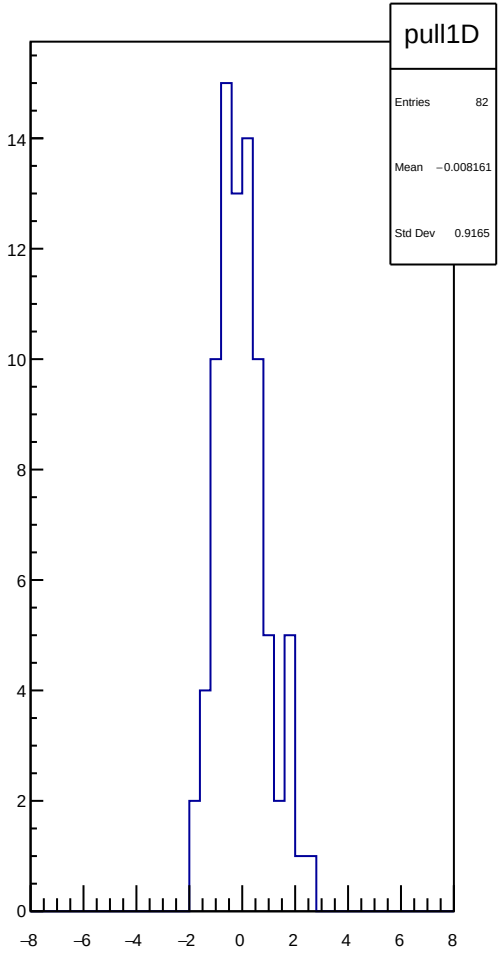

asym_sam_1548_avg_rms vs run
χ² / ndf 1.005e+04 / 81
p0 1137 ± 0.9017
1400
1350
1300
1250
1200
1150
1100
1050
1000

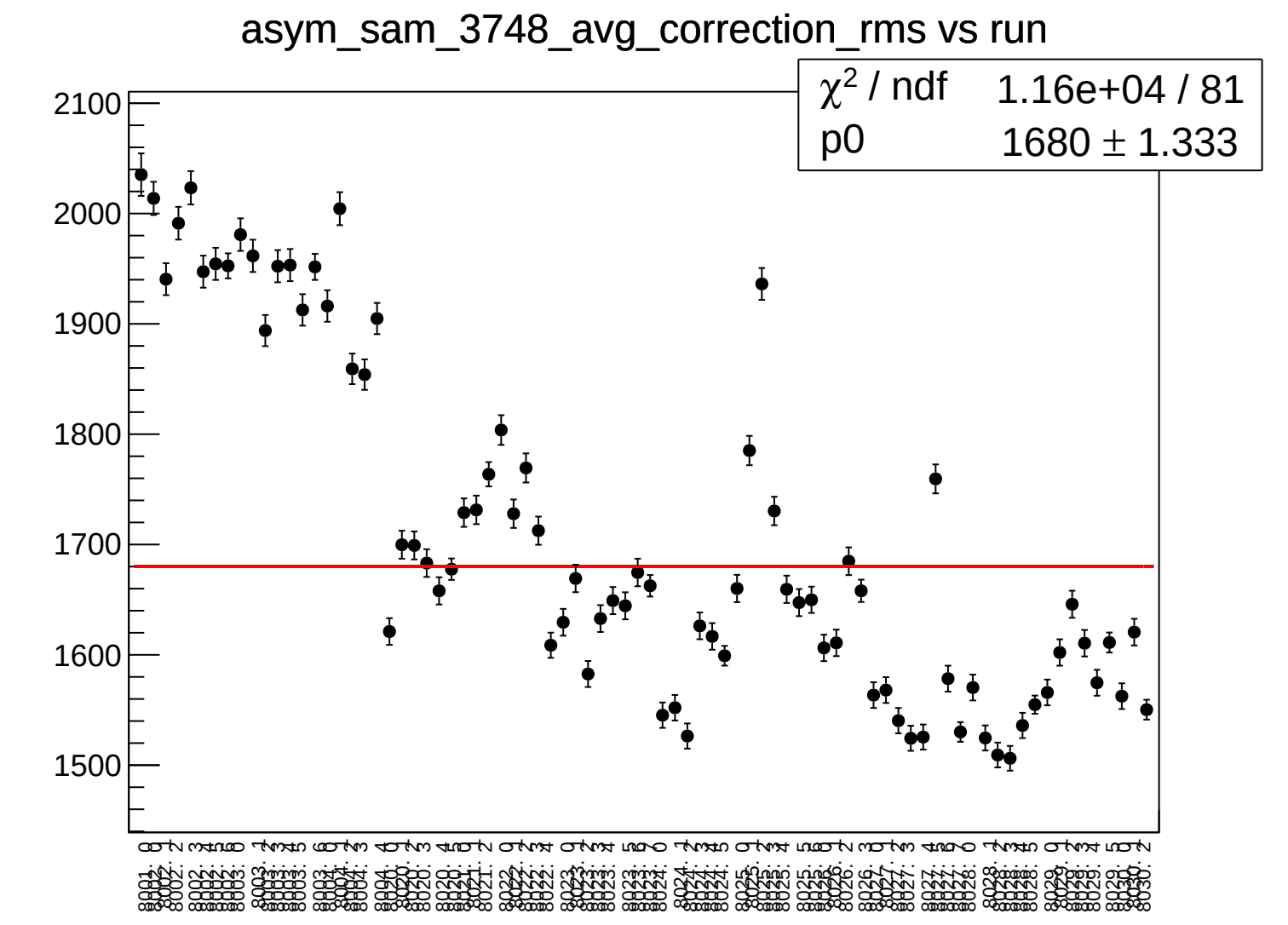

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 76.86 / 81
p0 109.5 ± 161.9
pull
Entries 82
Mean 451.4
Std Dev 395.8

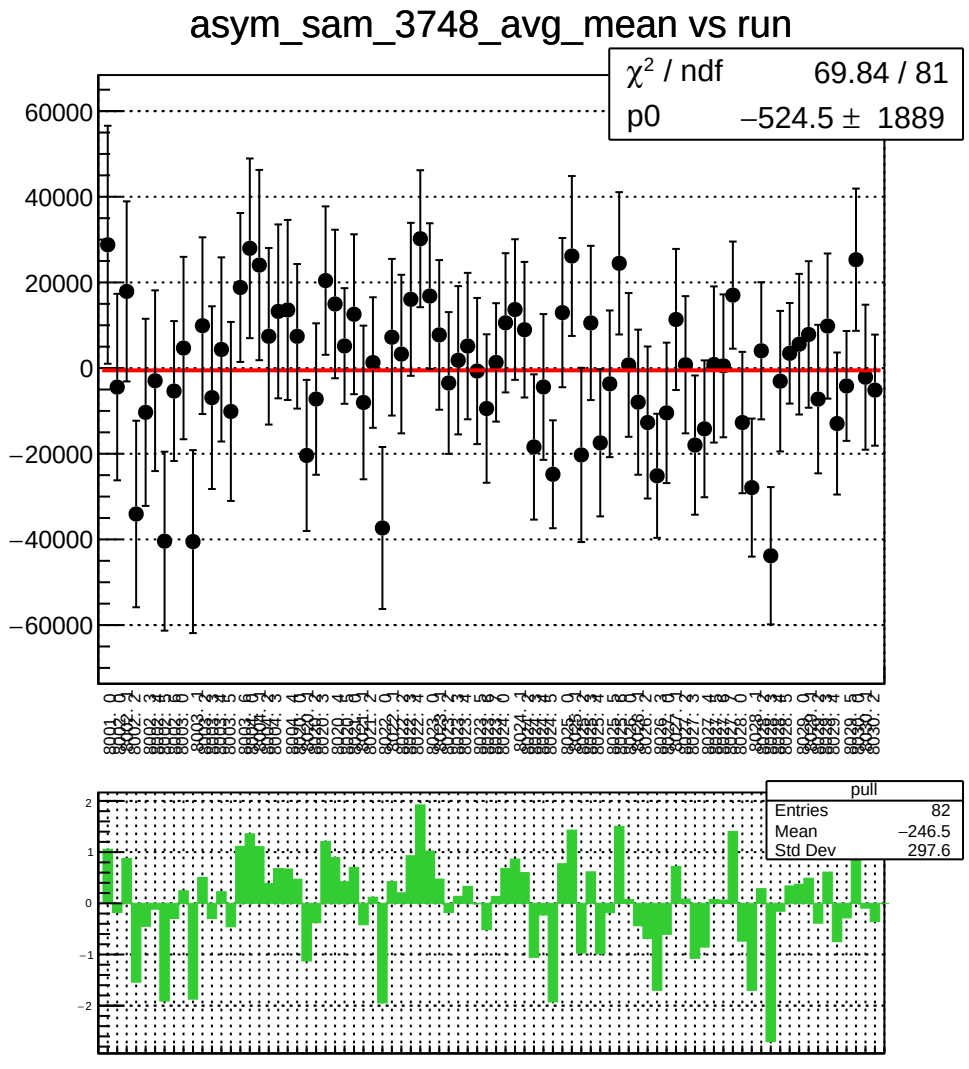

pull1D
Entries 82
Mean 0.005074
Std Dev 0.9682

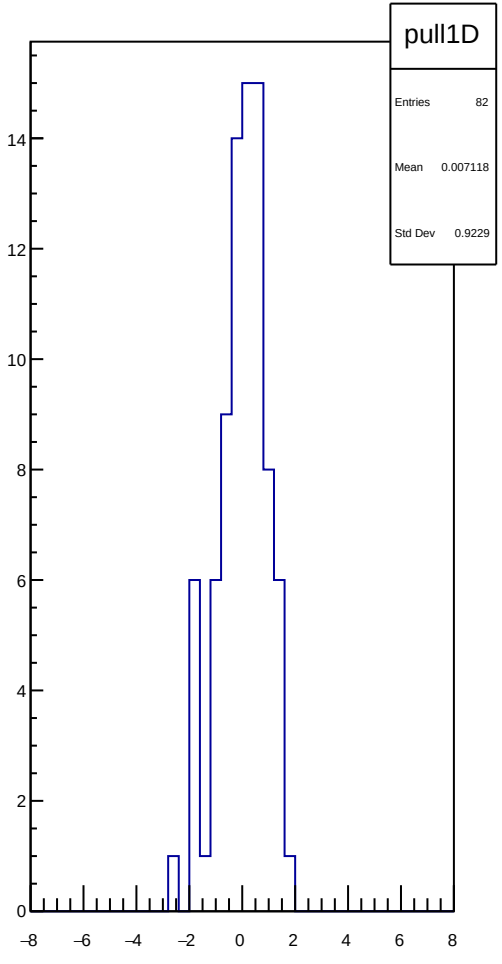

dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 5.047e+04 / 81
p0 142.6 ± 0.1145
220
200
180
160
140
120

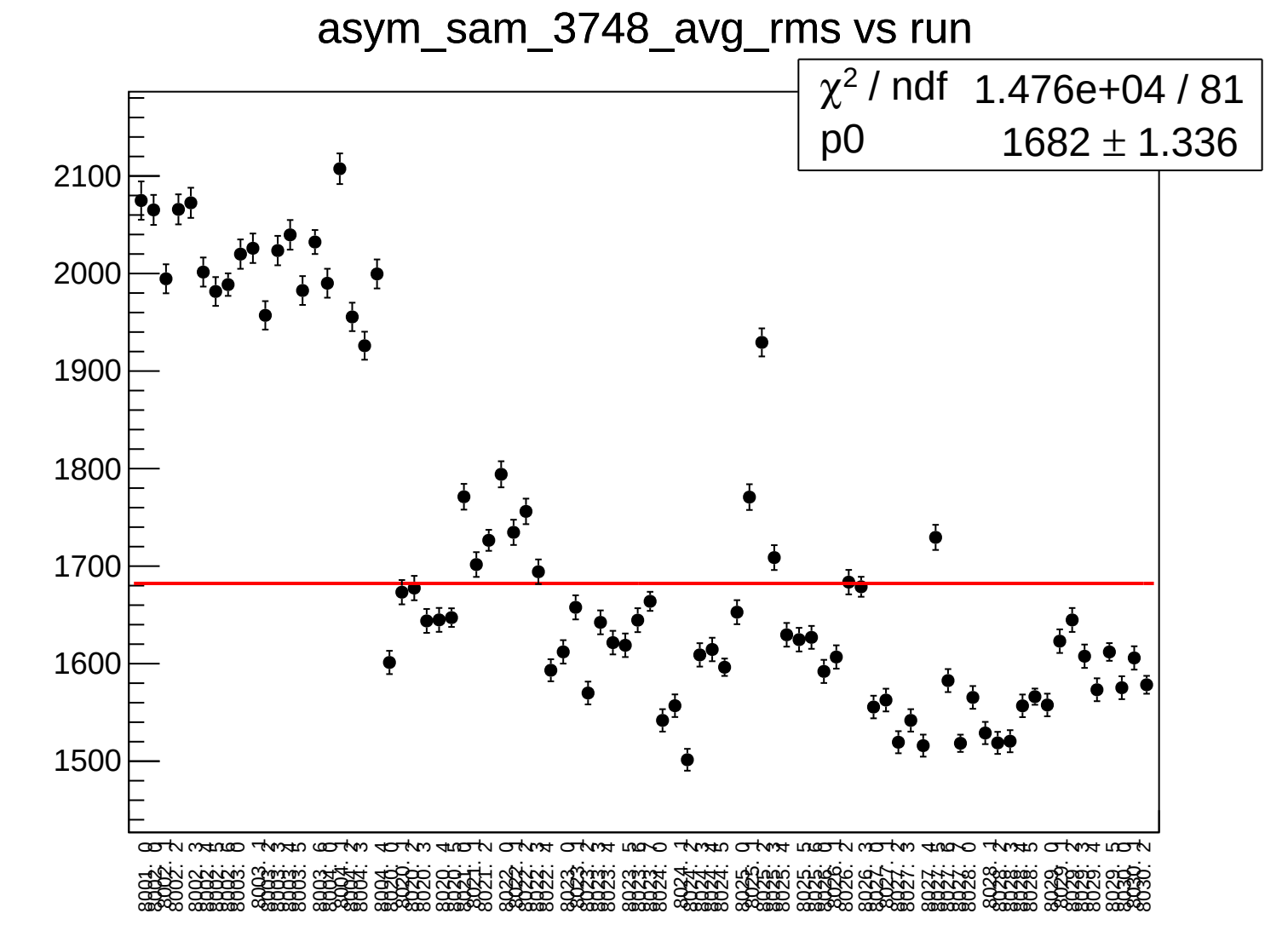

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 68.89 / 81
p0 673.1 ± 1885
pull
Entries 82
Mean −236.6
Std Dev 287.4

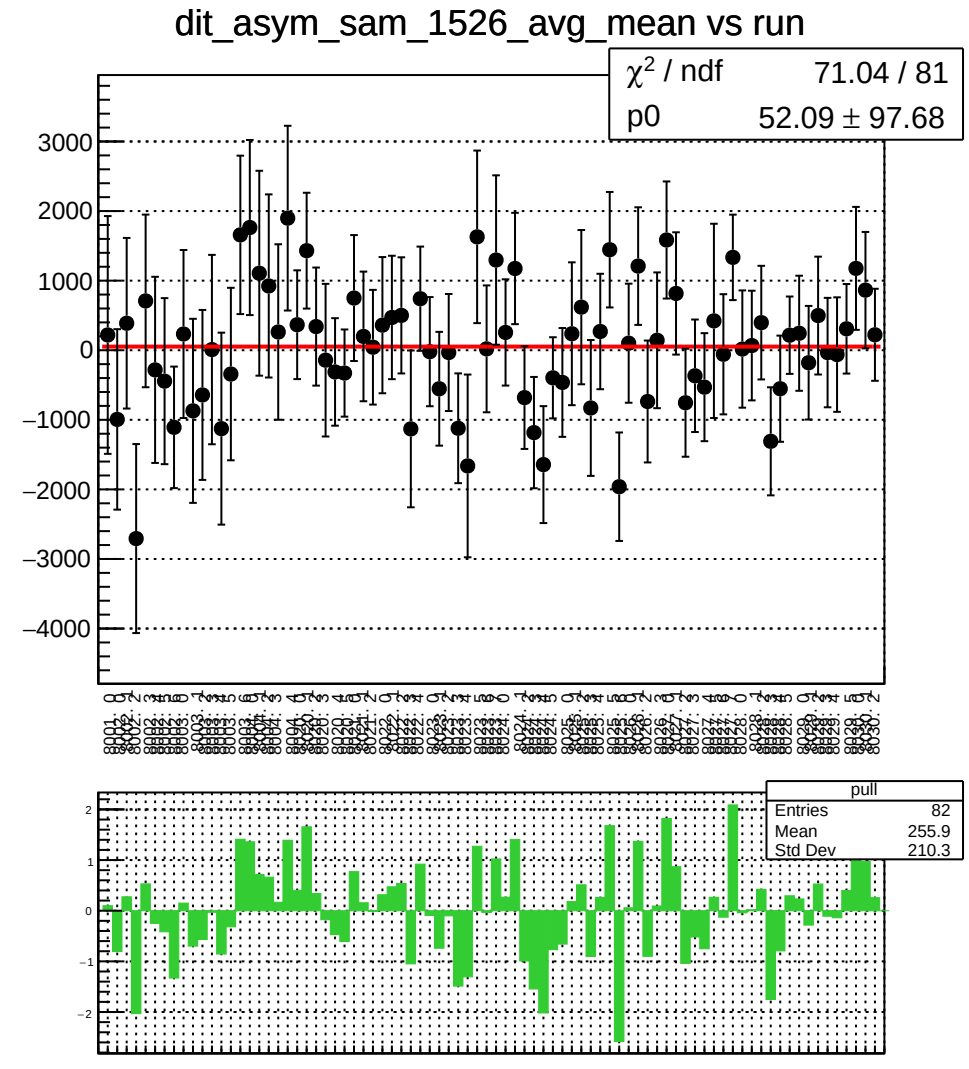

pull1D
Entries 82
Mean −0.008161
Std Dev 0.9165

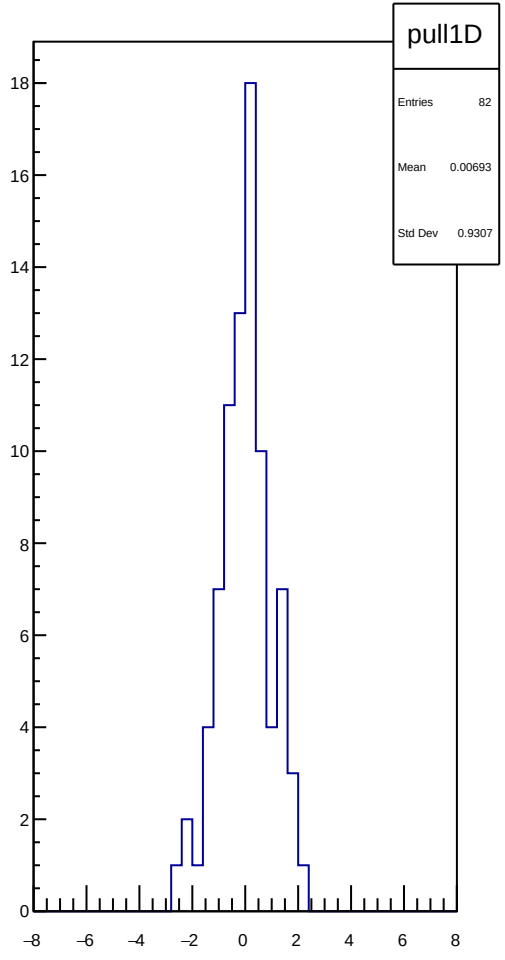

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 1.16e+04 / 81
p0 1680 ± 1.333
2100
2000
1900
1800
1700
1600
1500

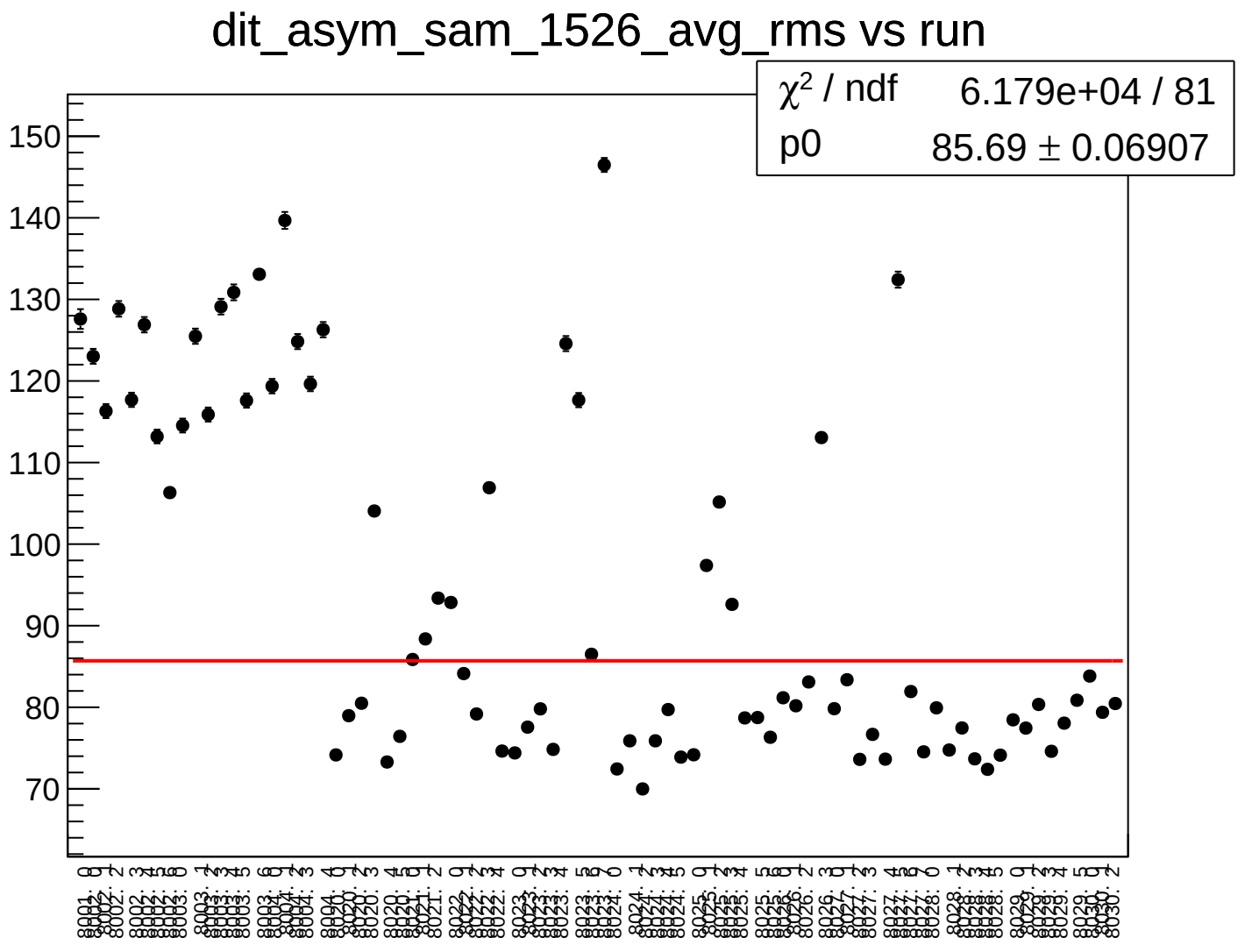

asym_sam_3748_avg_mean vs run
χ² / ndf 69.84 / 81
p0 −524.5 ± 1889
pull
Entries 82
Mean −246.5
Std Dev 297.6

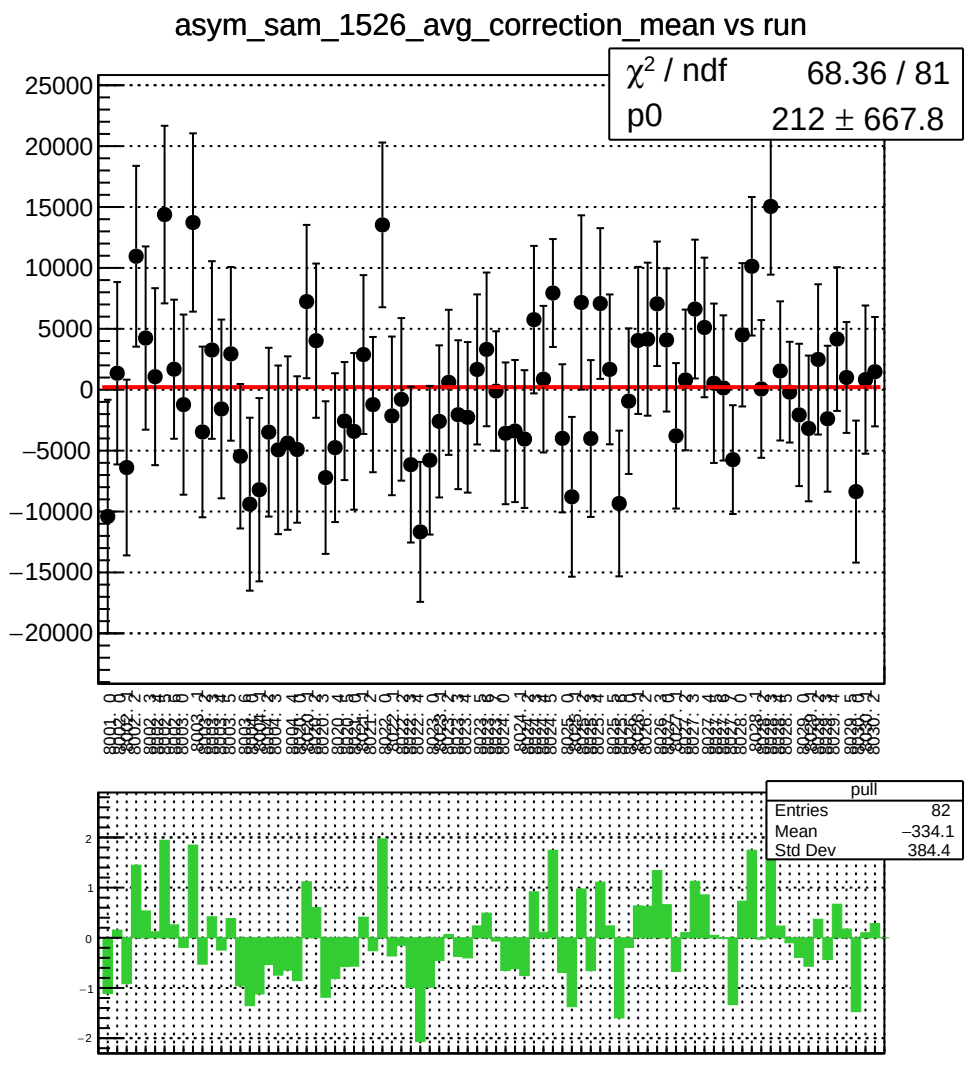

pull1D
Entries 82
Mean 0.007118
Std Dev 0.9229

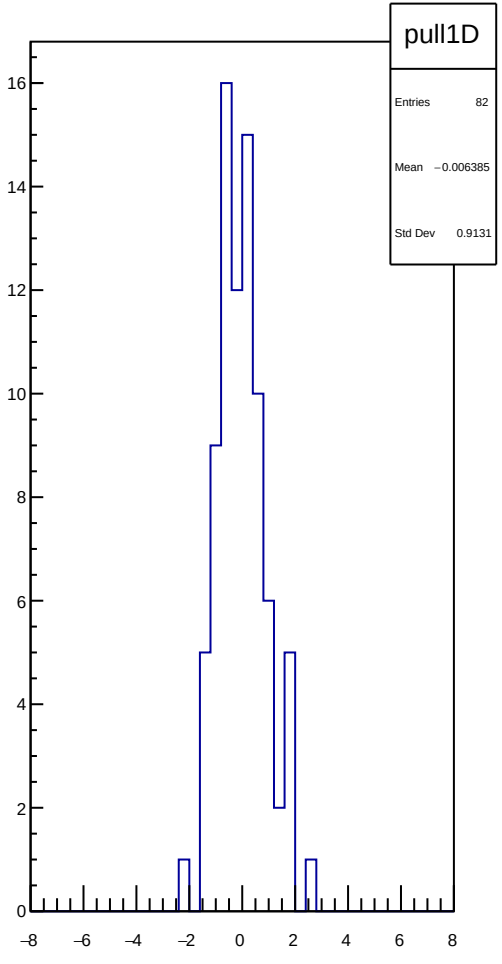

asym_sam_3748_avg_rms vs run
χ² / ndf 1.476e+04 / 81
p0 1682 ± 1.336
2100
2000
1900
1800
1700
1600
1500

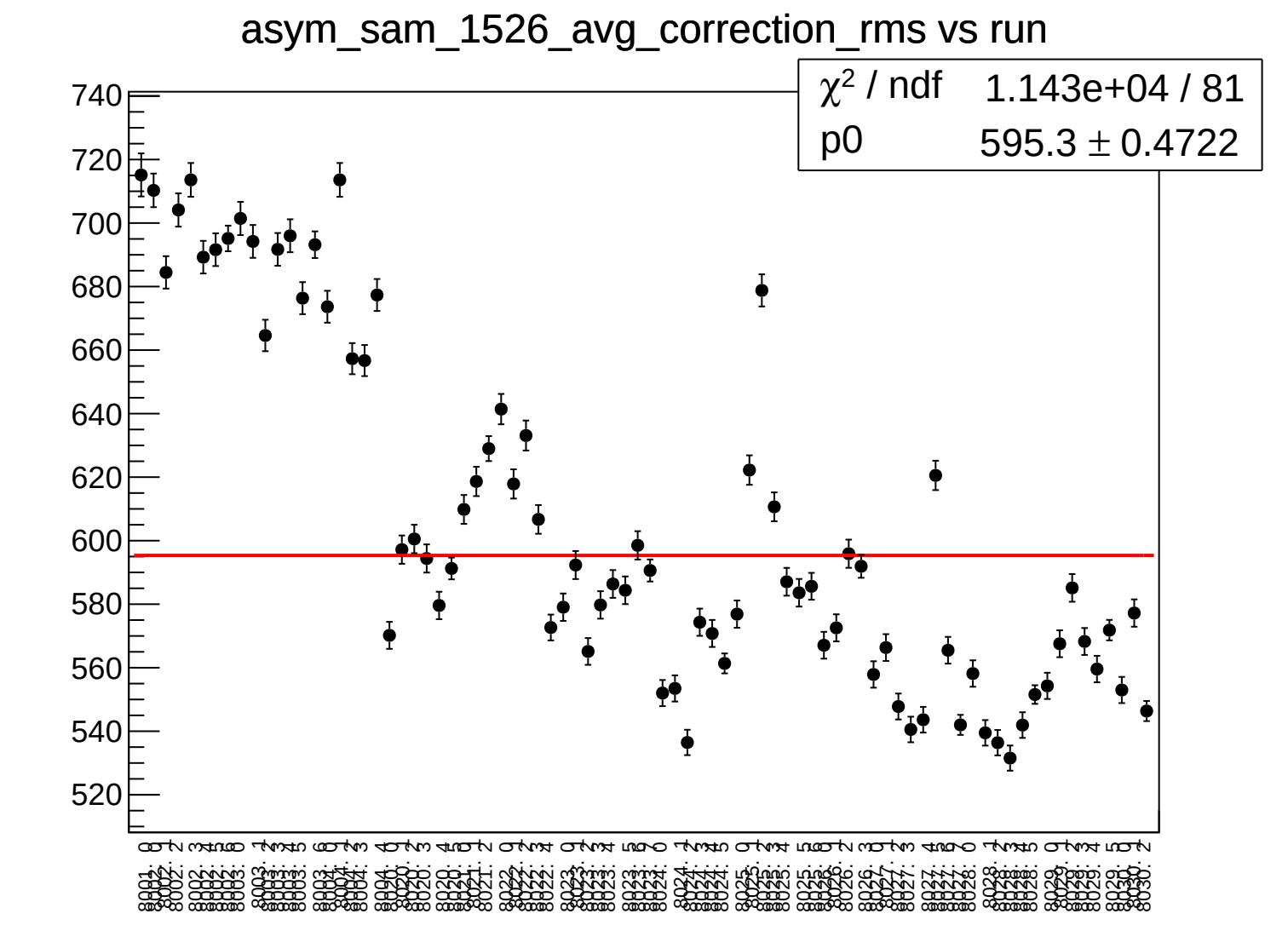

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 71.04 / 81
p0 52.09 ± 97.68
pull
Entries 82
Mean 255.9
Std Dev 210.3

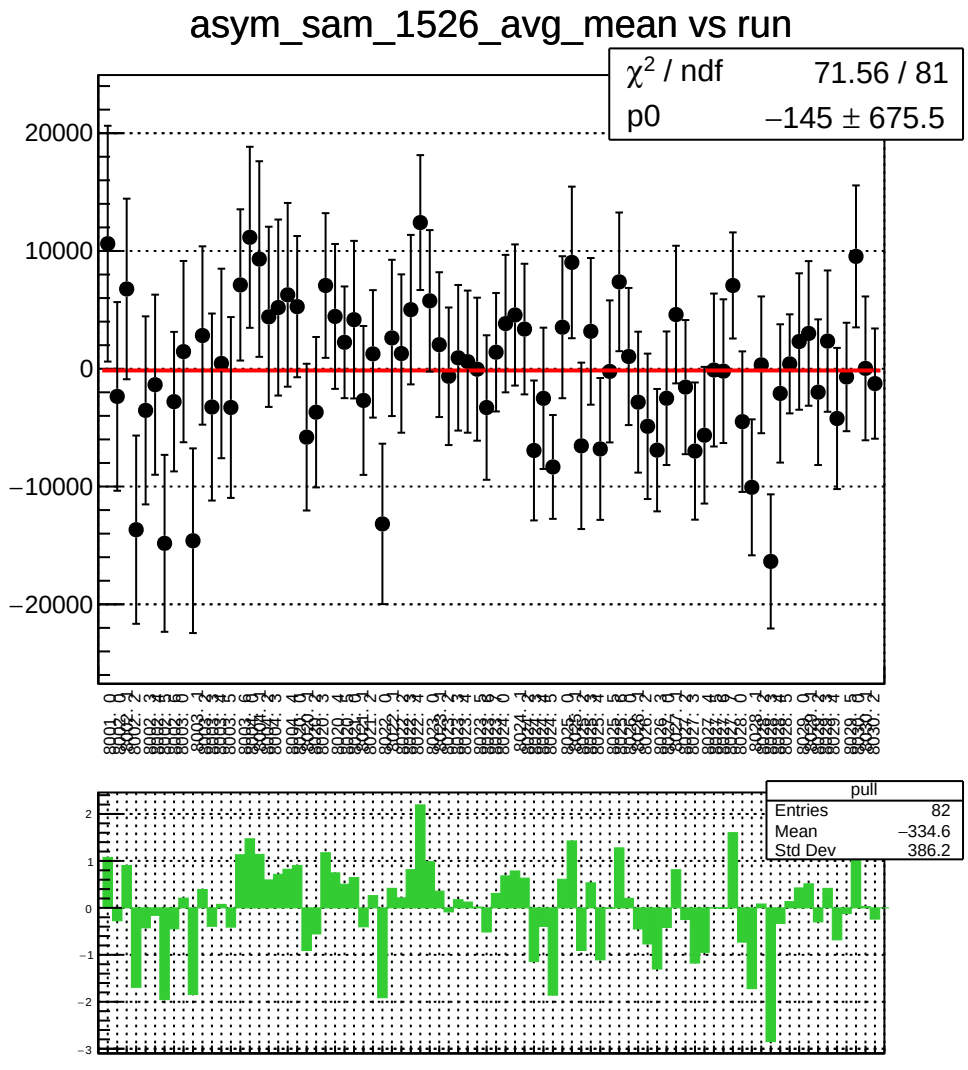

pull1D
Entries 82
Mean 0.00693
Std Dev 0.9307

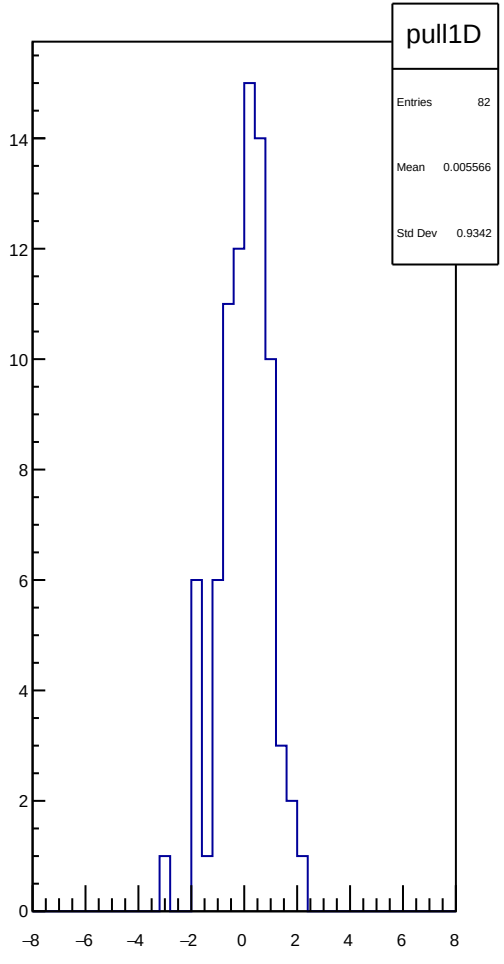

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 6.179e+04 / 81
p0 85.69 ± 0.06907
150
140
130
120
110
100
90
80
70

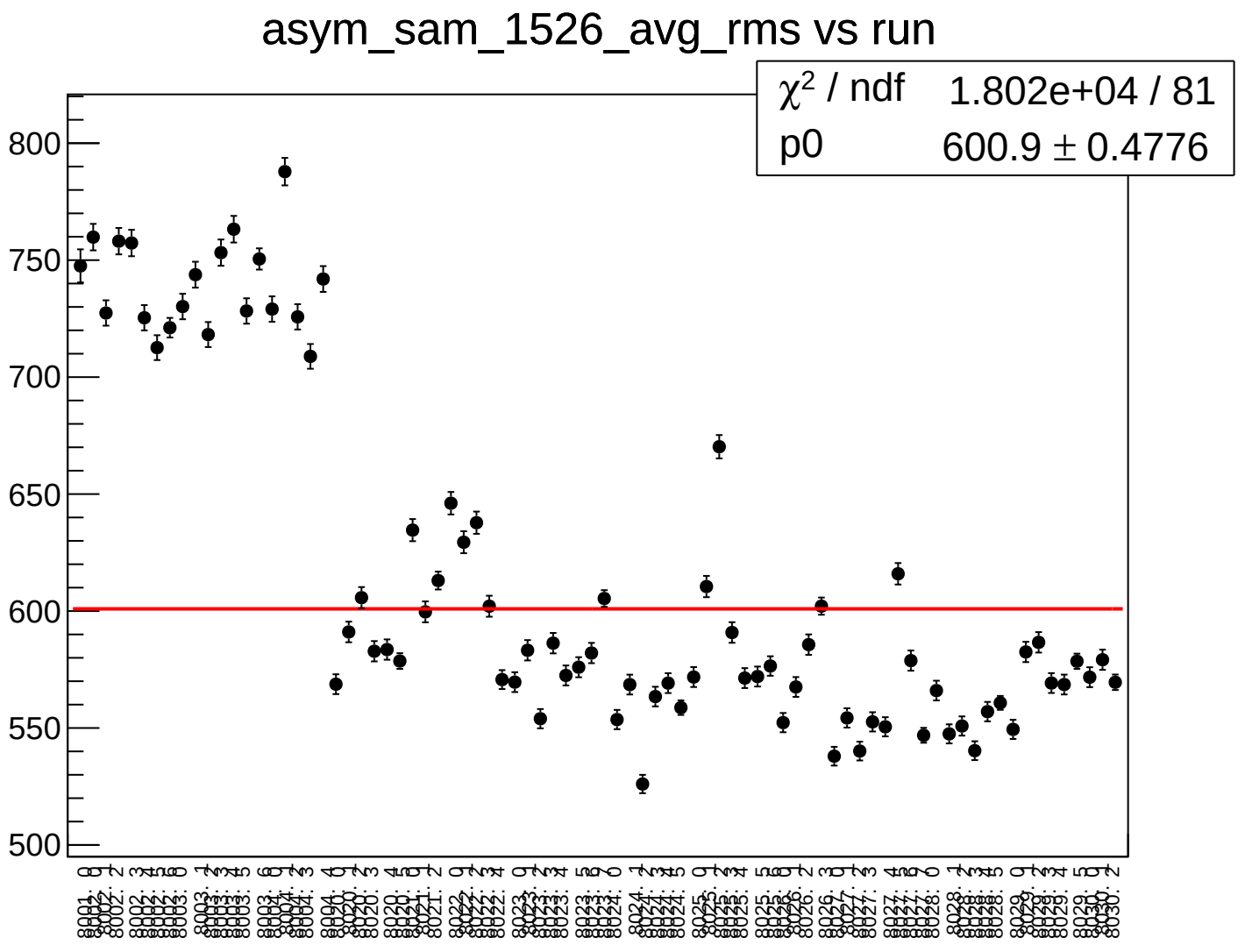

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 68.36 / 81
p0 212 ± 667.8
pull
Entries 82
Mean −334.1
Std Dev 384.4

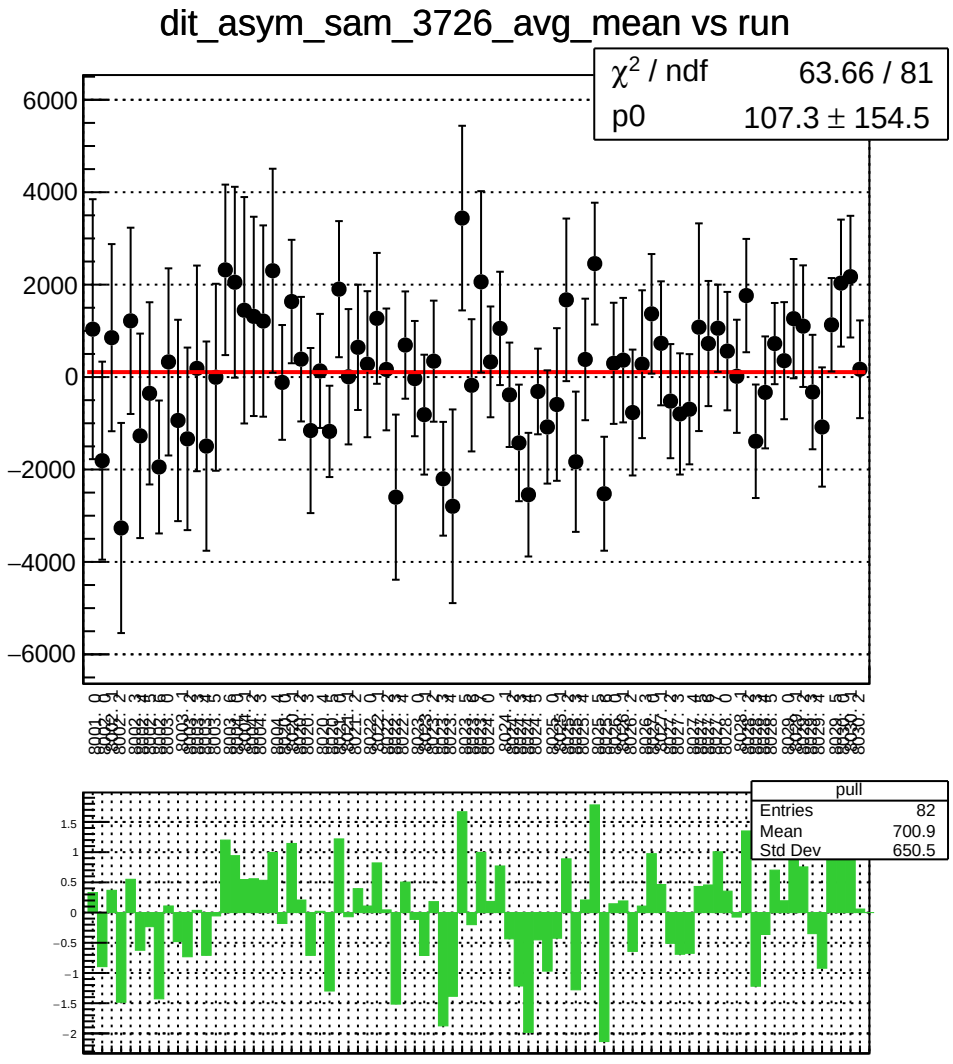

pull1D
Entries 82
Mean −0.006385
Std Dev 0.9131

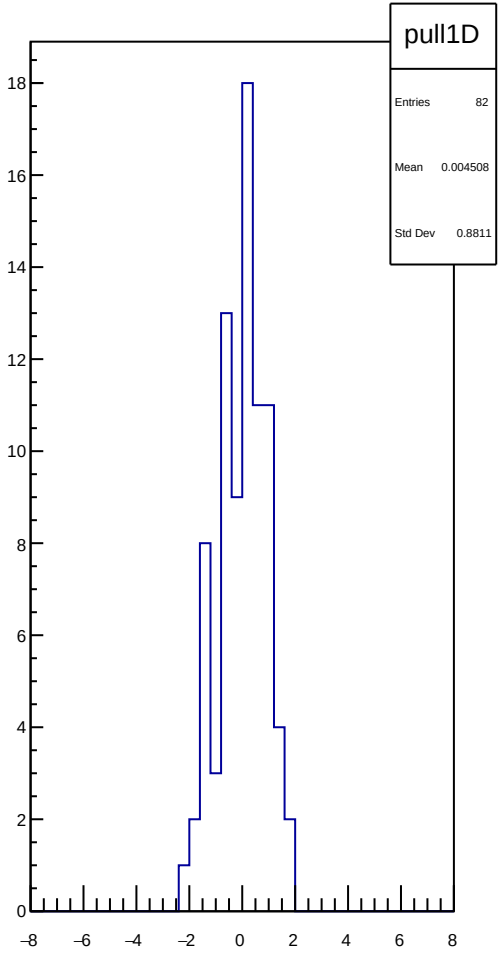

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 1.143e+04 / 81
p0 595.3 ± 0.4722
740
720
700
680
660
640
620
600
580
560
540
520

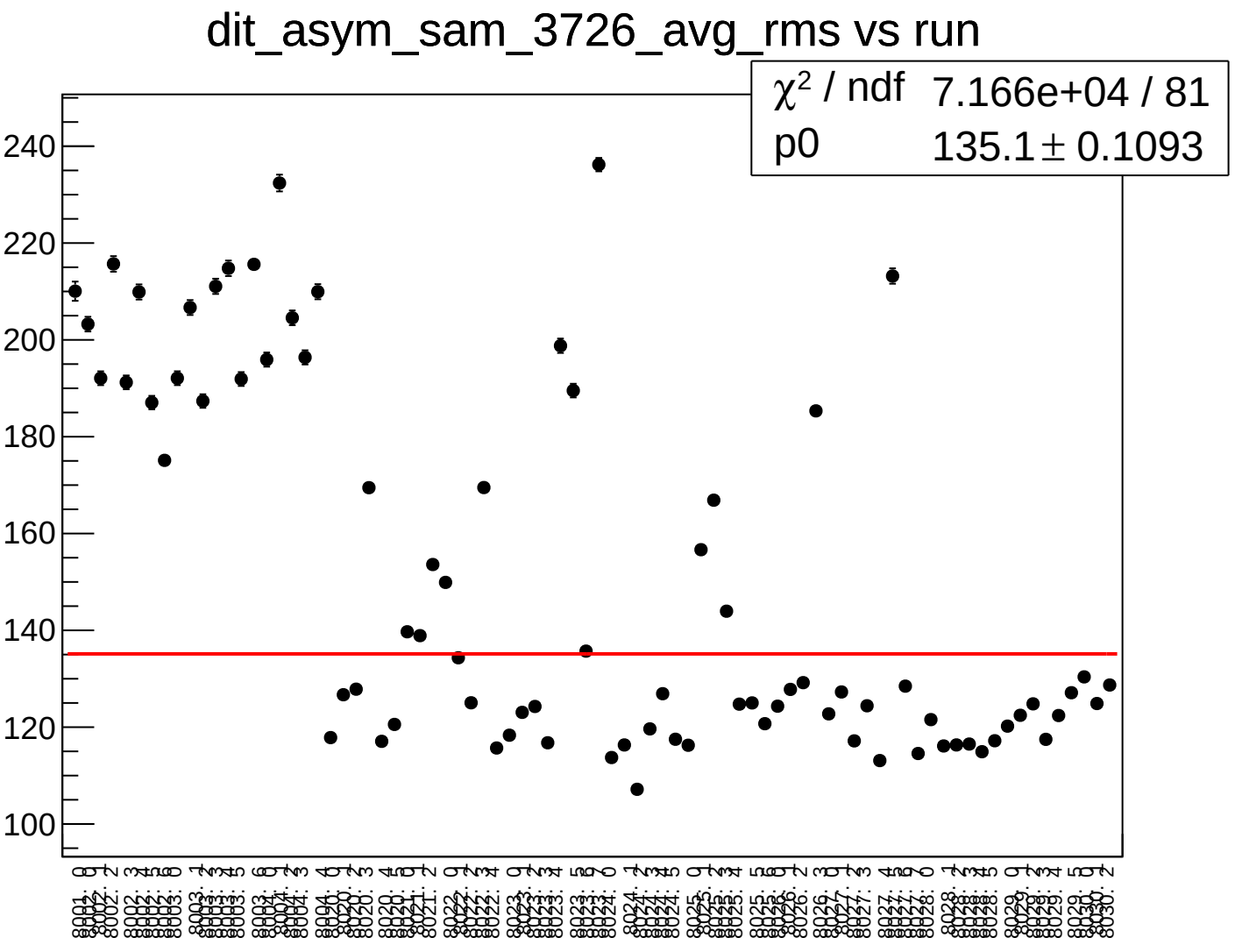

asym_sam_1526_avg_mean vs run
χ² / ndf 71.56 / 81
p0 −145 ± 675.5
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −334.6
Std Dev 386.2
2
1
0
−1
−2
−3

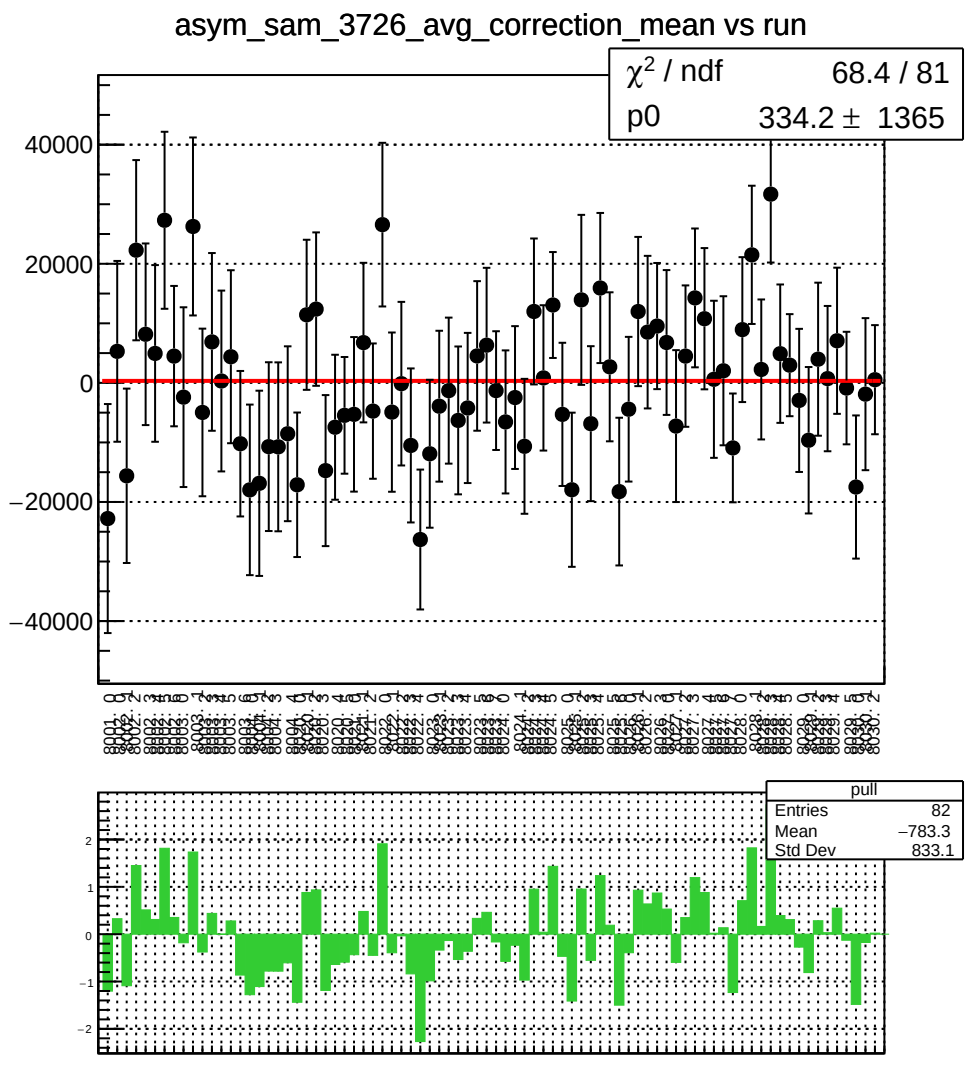

pull1D
Entries 82
Mean 0.005566
Std Dev 0.9342
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

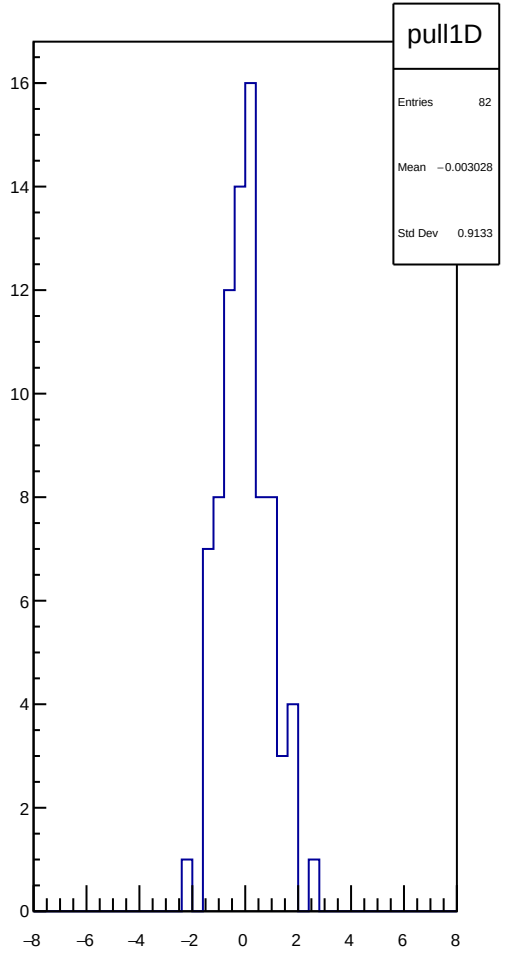

asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.802e+04 / 81
p0 600.9 ± 0.4776
800
750
700
650
600
550
500

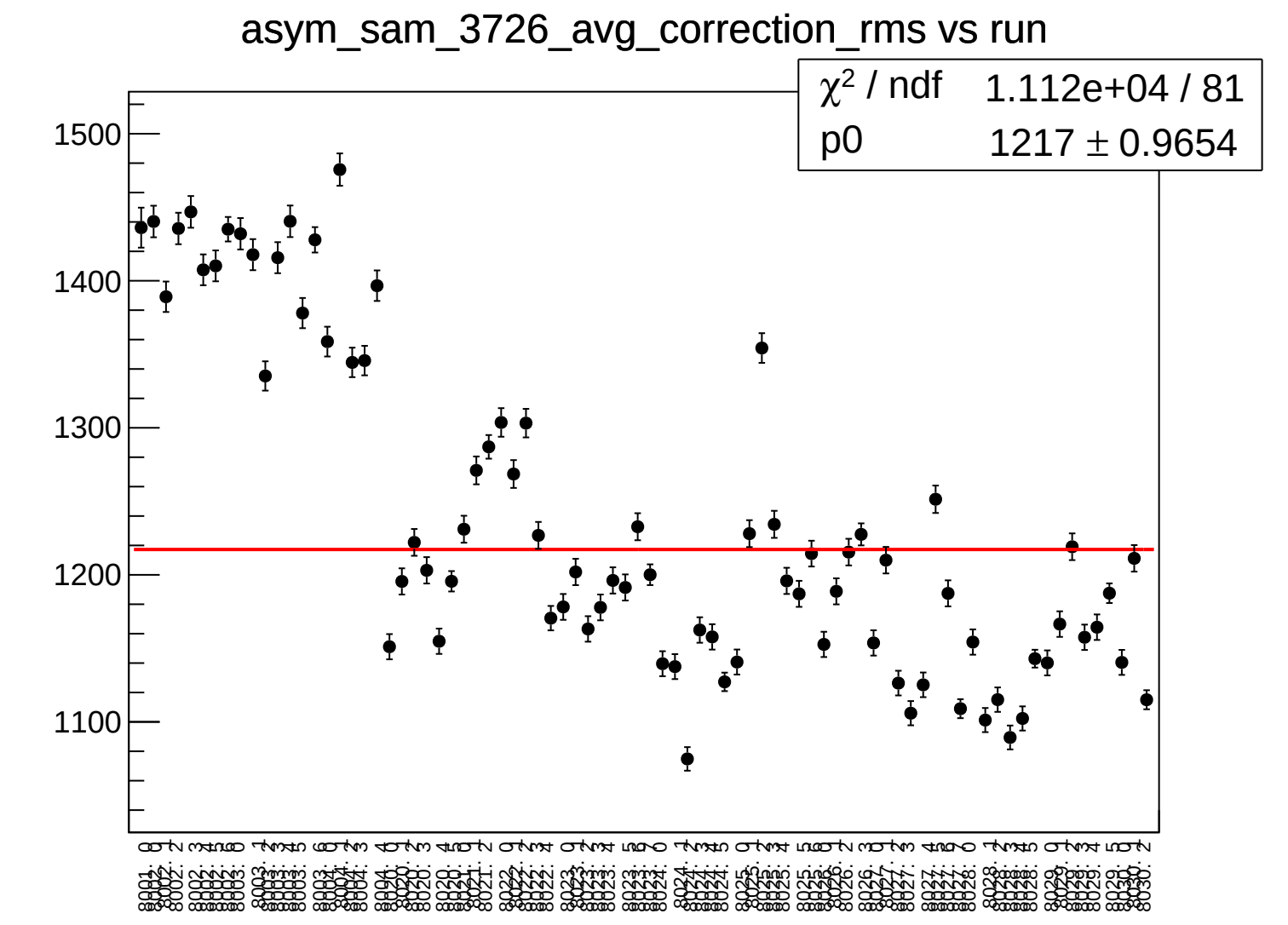

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 63.66 / 81
p0 107.3 ± 154.5
pull
Entries 82
Mean 700.9
Std Dev 650.5

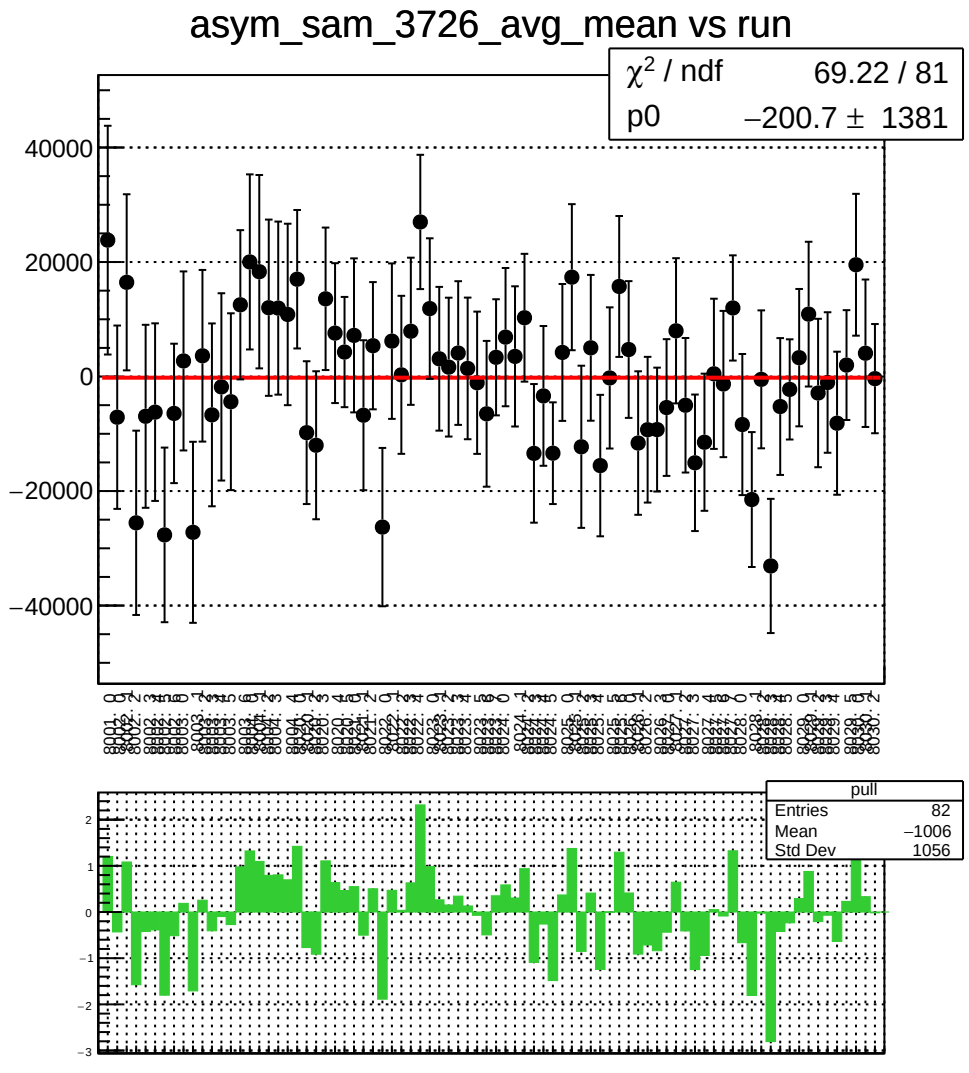

pull1D
Entries 82
Mean 0.004508
Std Dev 0.8811

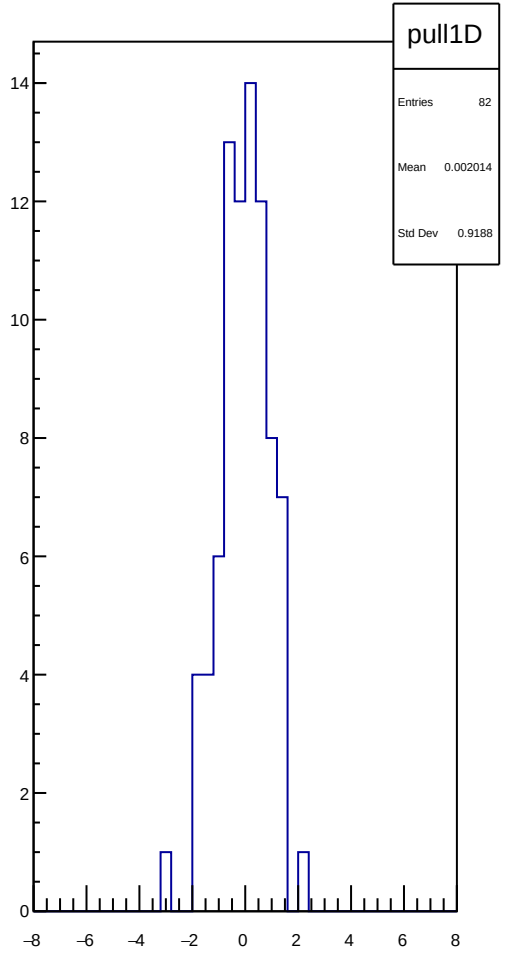

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 7.166e+04 / 81
p0 135.1 ± 0.1093
240
220
200
180
160
140
120
100

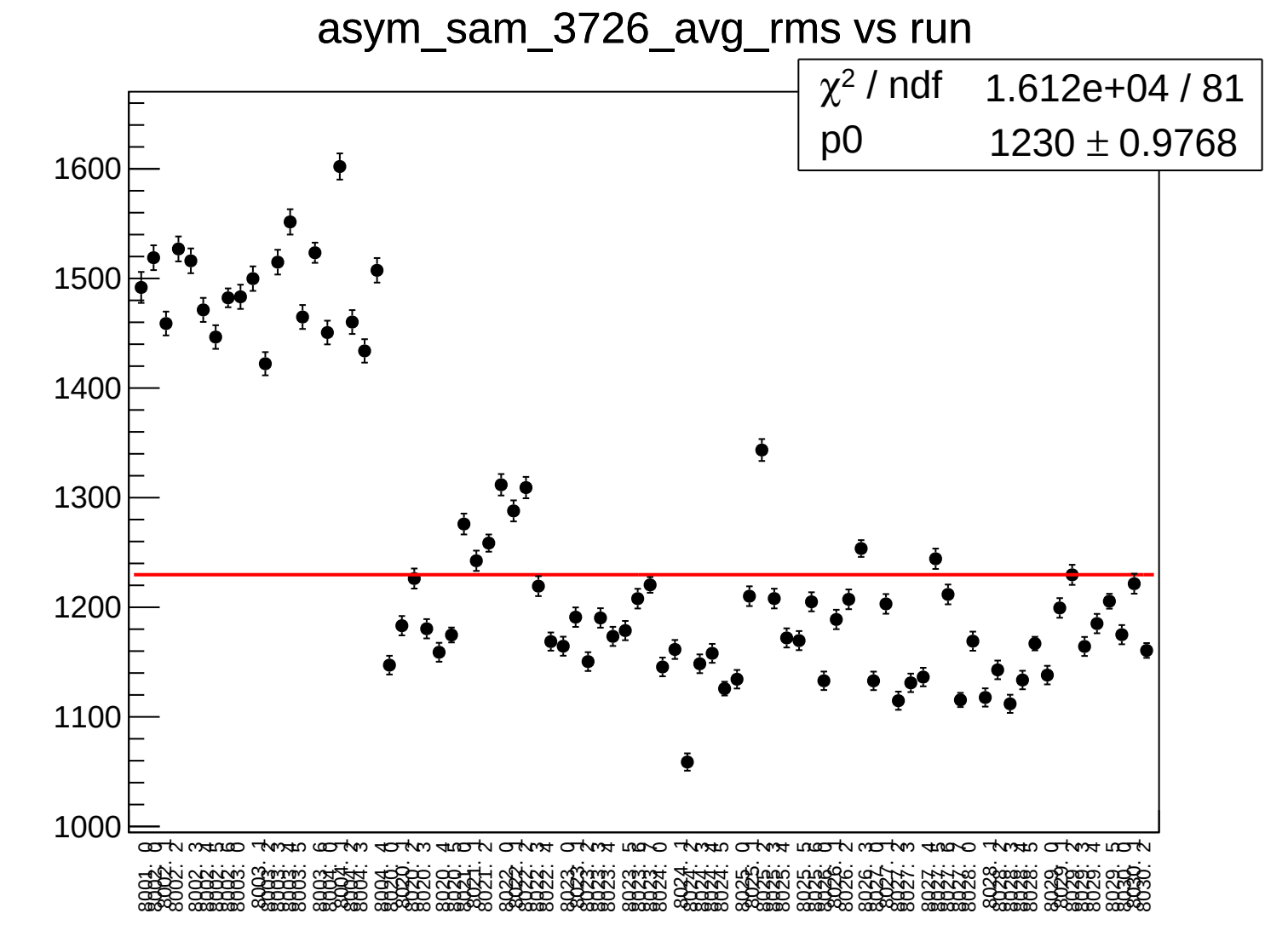

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 68.4 / 81
p0 334.2 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −783.3
Std Dev 833.1
2
1
0
−1
−2

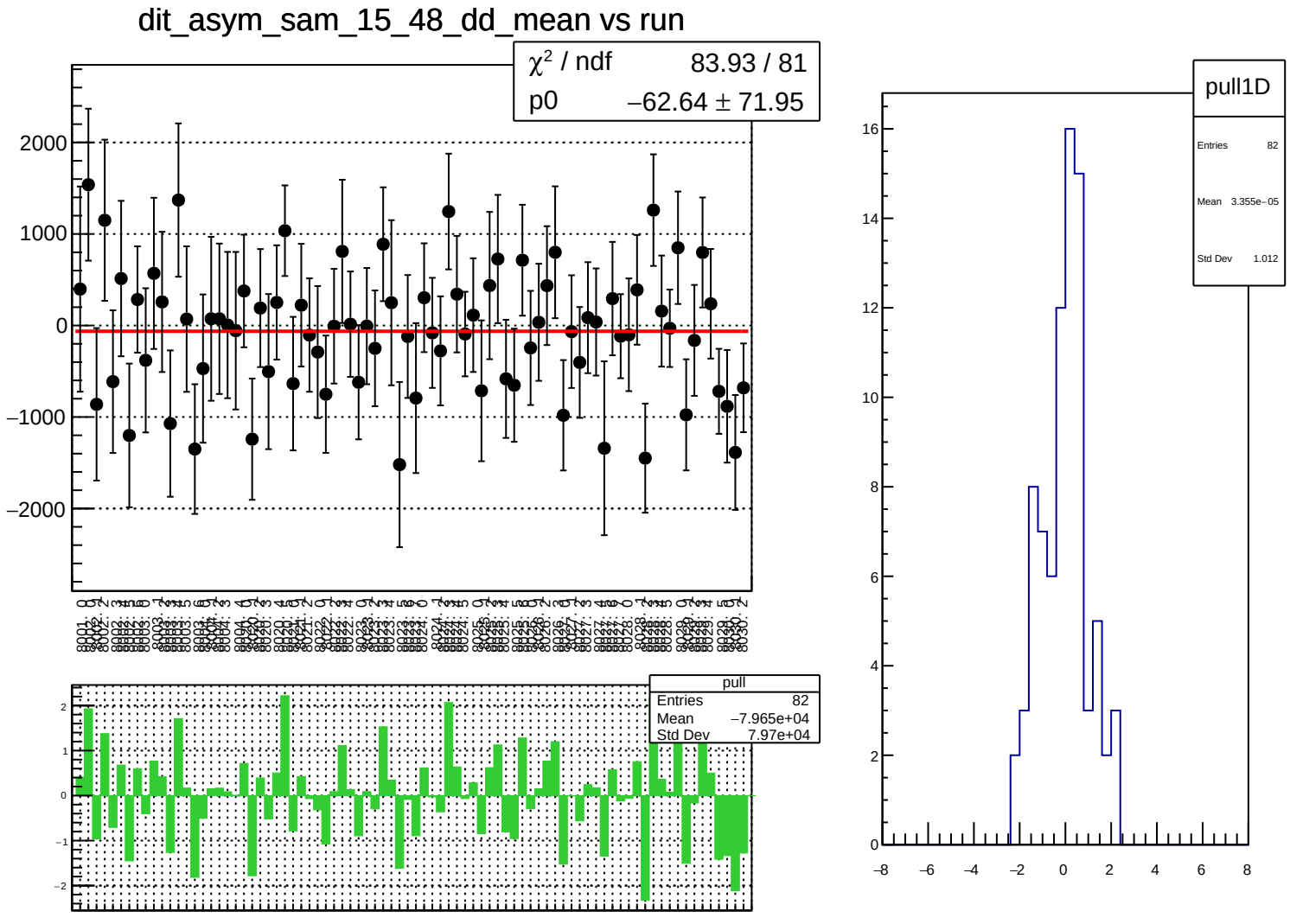

pull1D
Entries 82
Mean −0.003028
Std Dev 0.9133
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

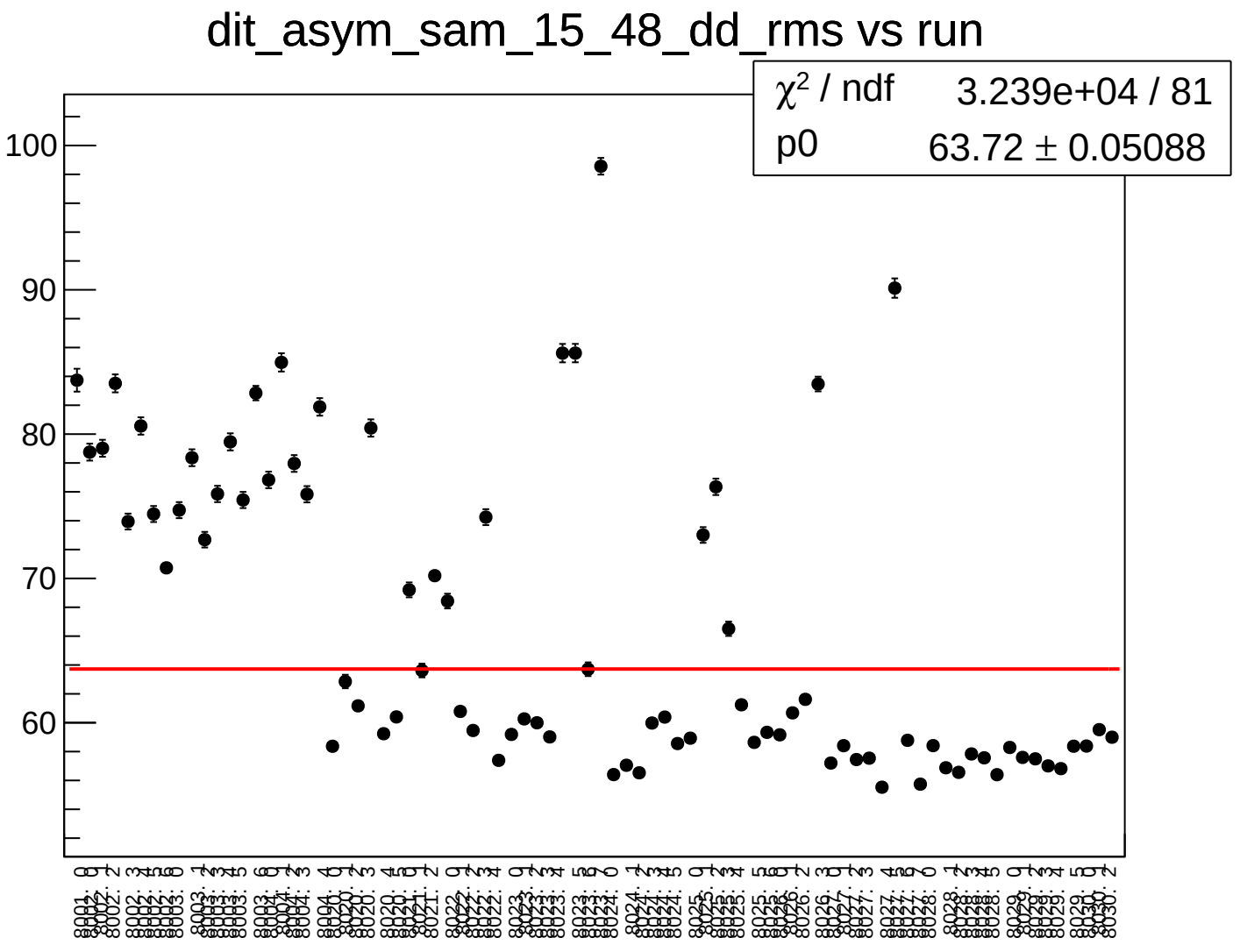

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 1.112e+04 / 81
p0 1217 ± 0.9654
1500
1400
1300
1200
1100

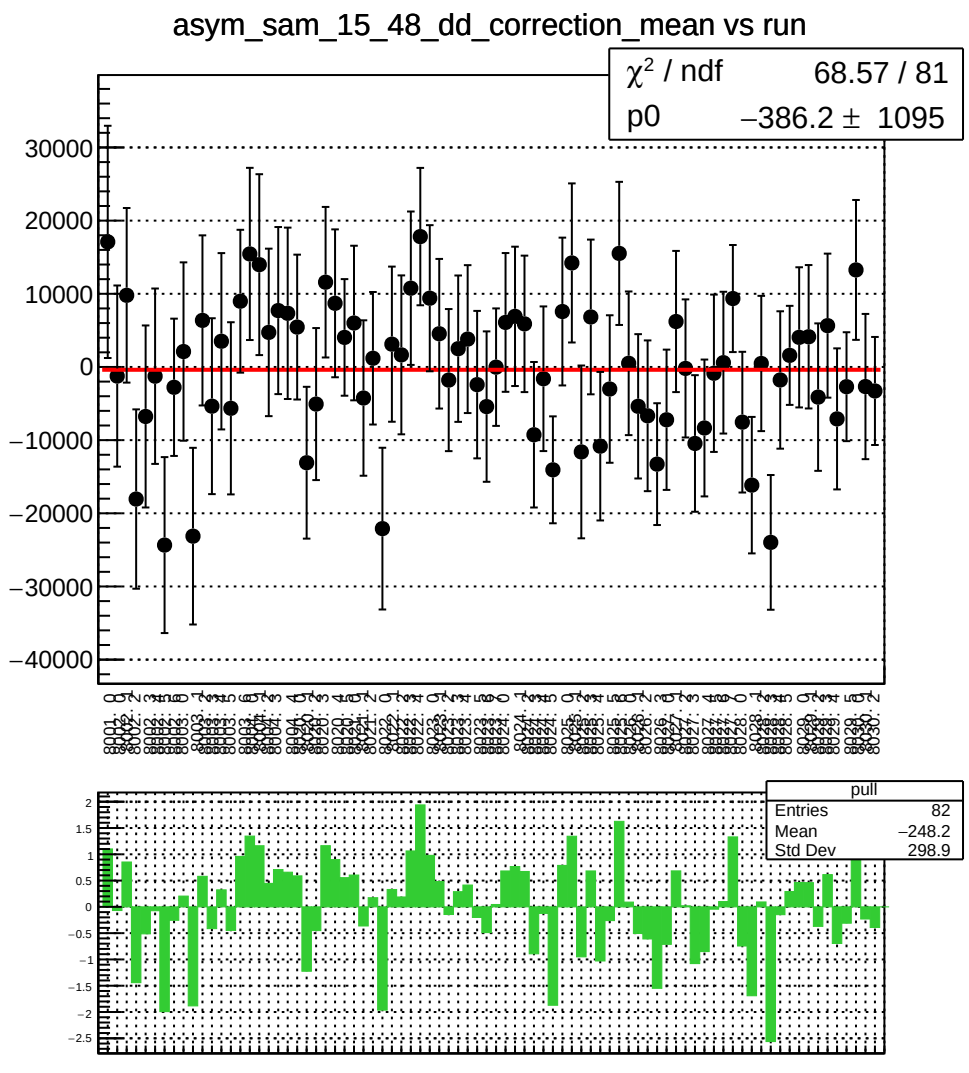

asym_sam_3726_avg_mean vs run
χ² / ndf 69.22 / 81
p0 −200.7 ± 1381
40000
20000
0
−20000
−40000
pull
Entries 82
Mean −1006
Std Dev 1056
2
1
0
−1
−2
−3

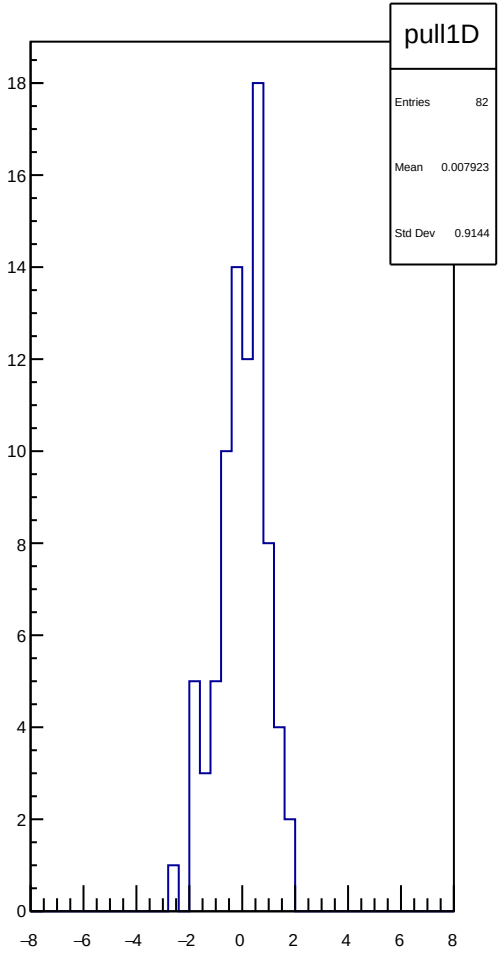

pull1D
Entries 82
Mean 0.002014
Std Dev 0.9188
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

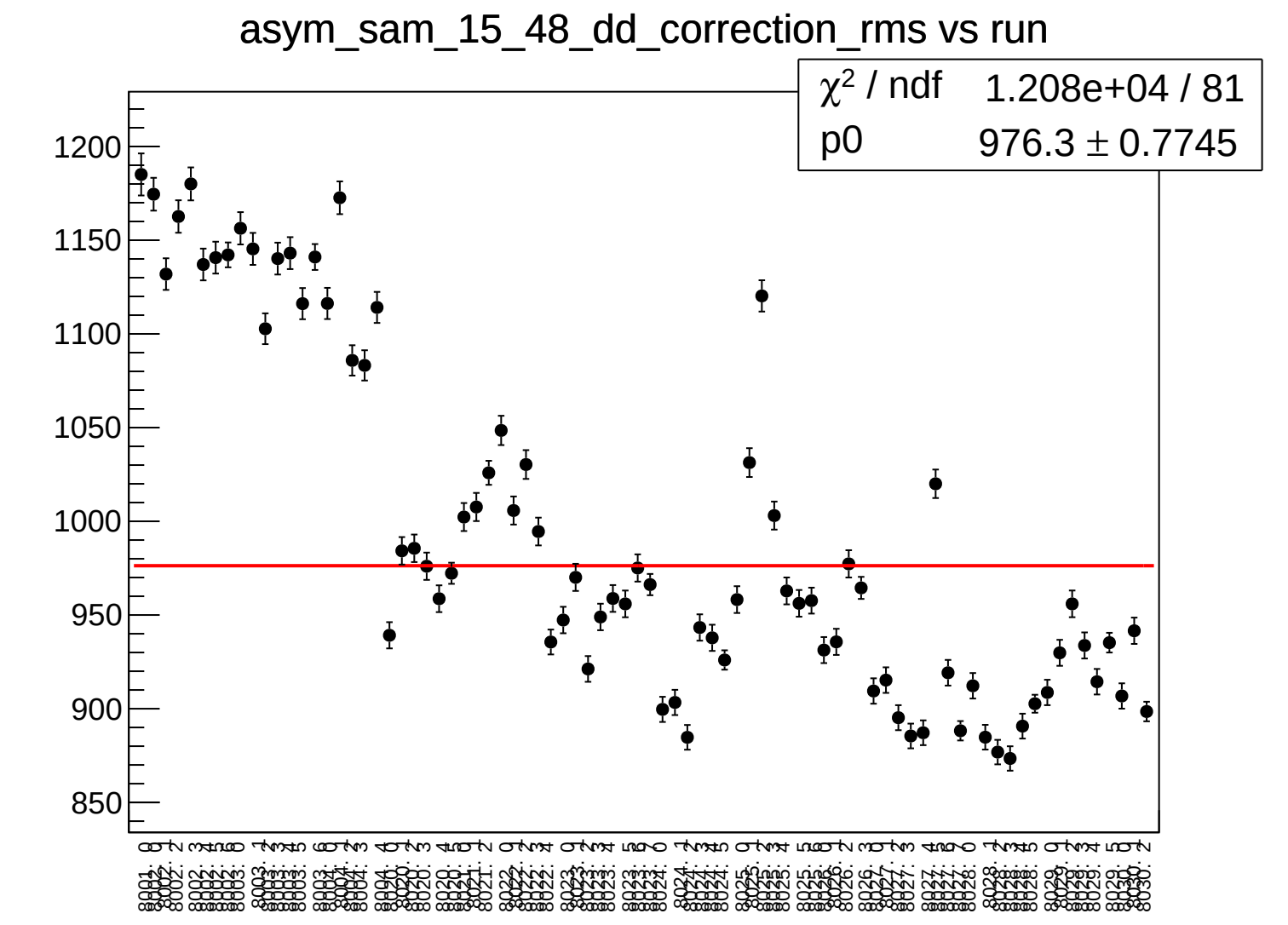

asym_sam_3726_avg_rms vs run
χ² / ndf 1.612e+04 / 81
p0 1230 ± 0.9768
1600
1500
1400
1300
1200
1100
1000

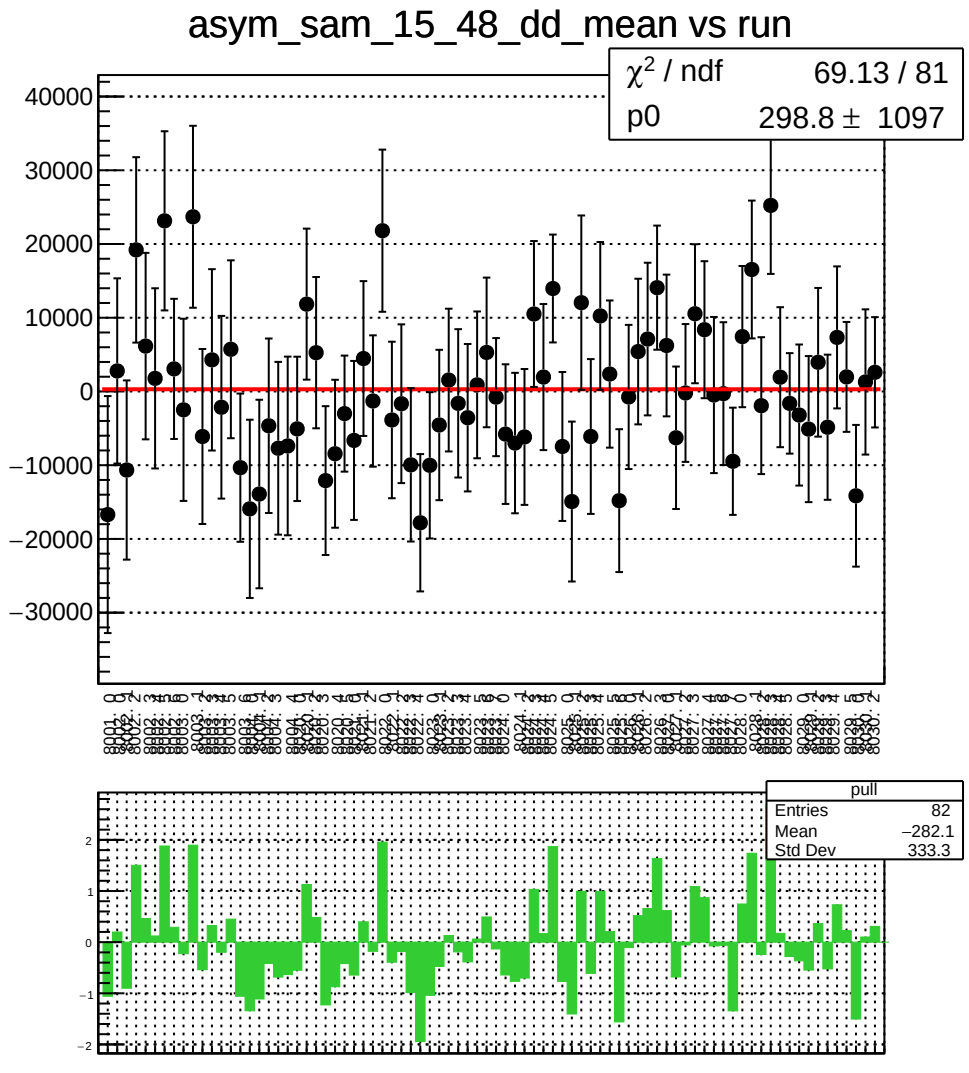

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 83.93 / 81
p0 −62.64 ± 71.95
2000
1000
0
−1000
−2000
pull
Entries 82
Mean −7.965e+04
Std Dev 7.97e+04
pull1D
Entries 82
Mean 3.355e−05
Std Dev 1.012

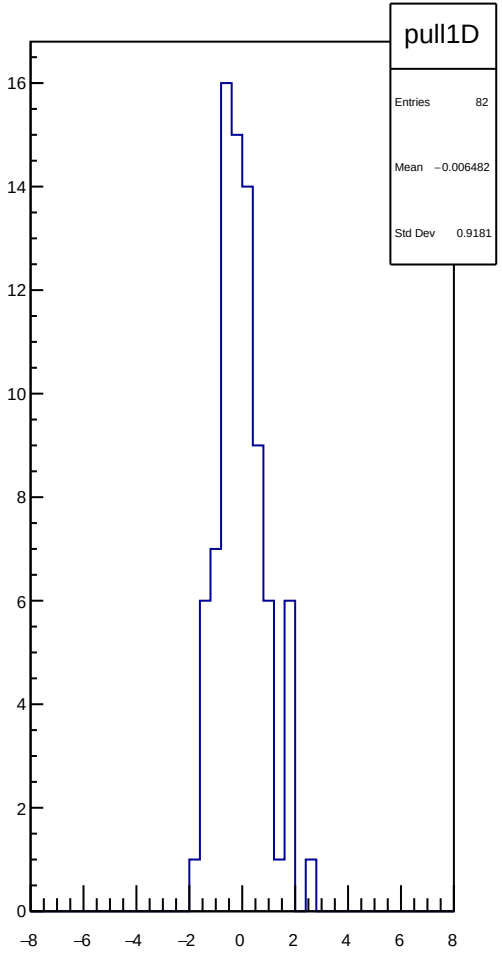

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 3.239e+04 / 81
p0 63.72 ± 0.05088
100
90
80
70
60

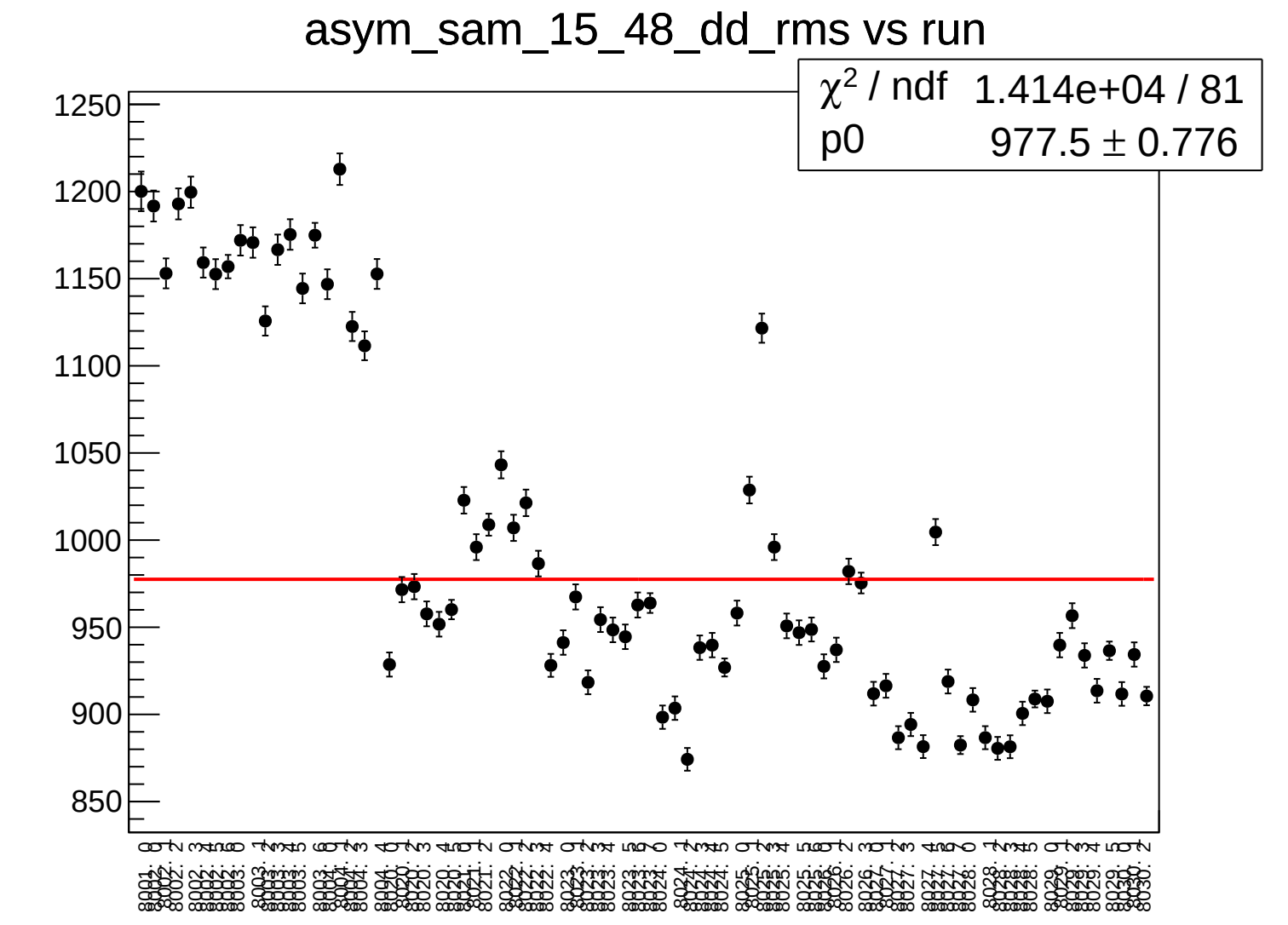

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 68.57 / 81
p0 −386.2 ± 1095
pull
Entries 82
Mean −248.2
Std Dev 298.9

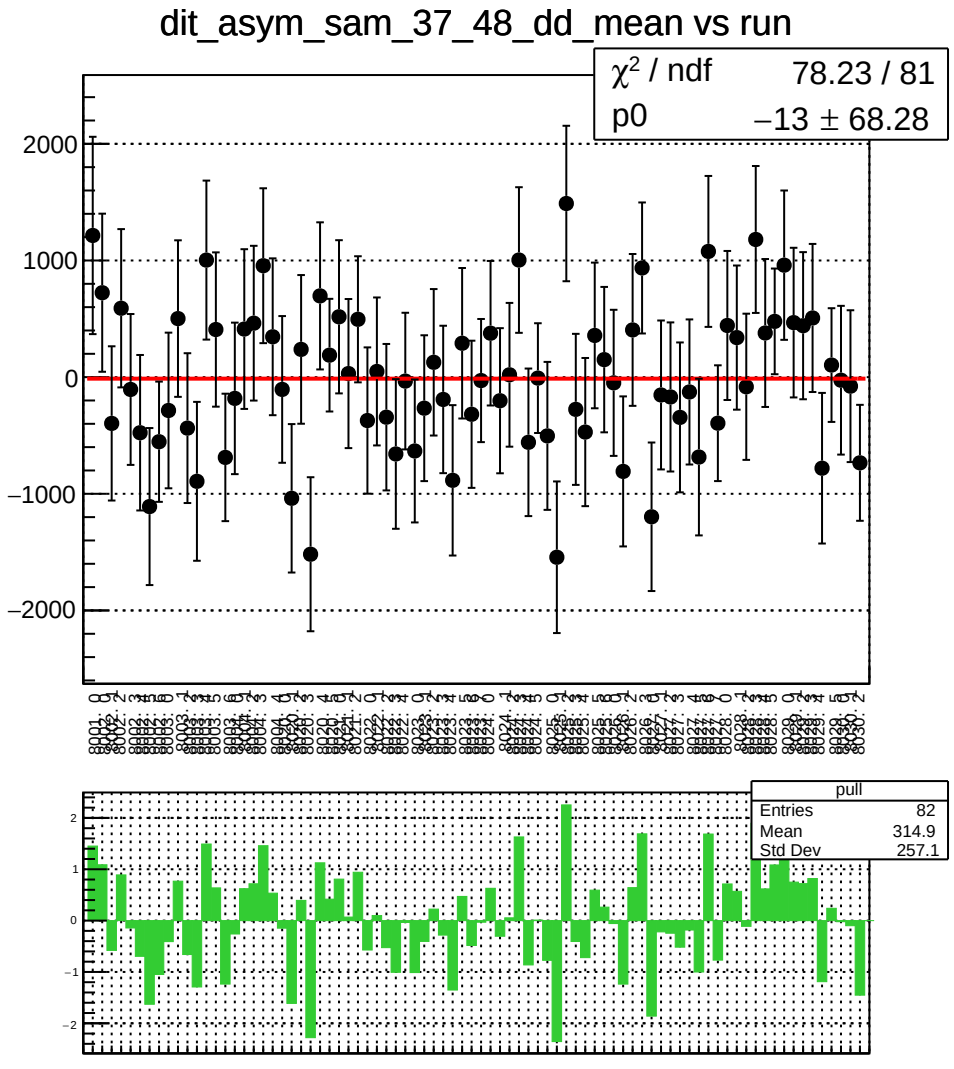

pull1D
Entries 82
Mean 0.007923
Std Dev 0.9144

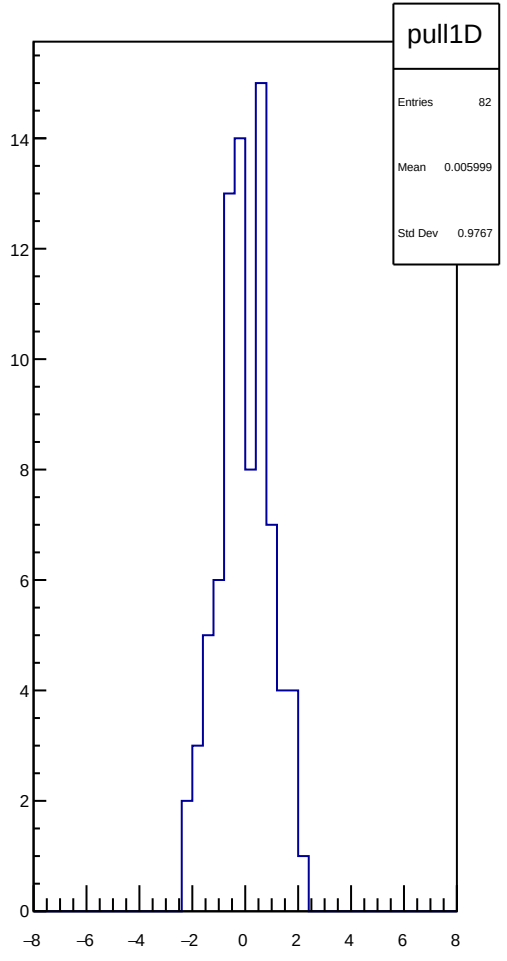

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 1.208e+04 / 81
p0 976.3 ± 0.7745
1200
1150
1100
1050
1000
950
900
850

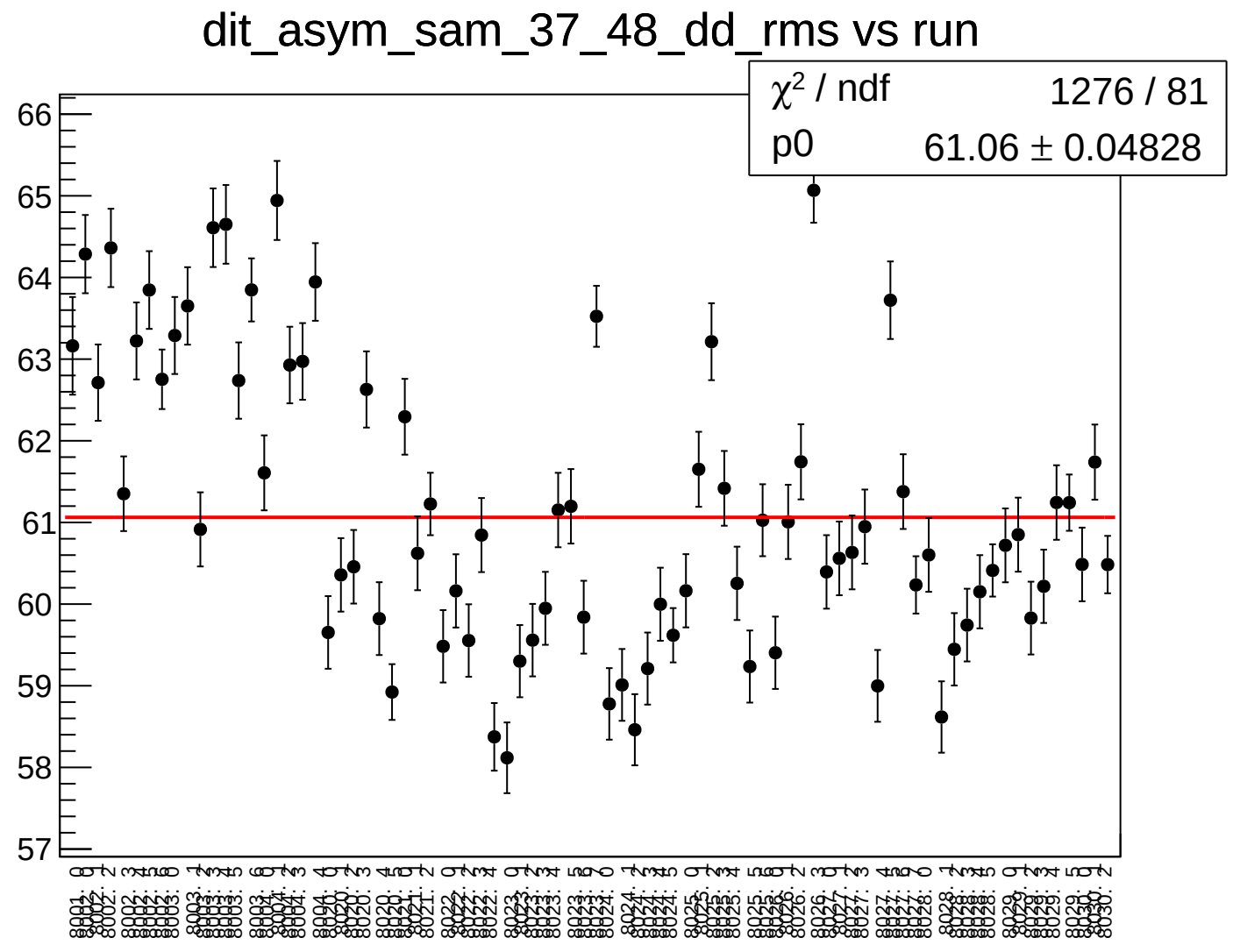

asym_sam_15_48_dd_mean vs run
χ² / ndf 69.13 / 81
p0 298.8 ± 1097
pull
Entries 82
Mean −282.1
Std Dev 333.3

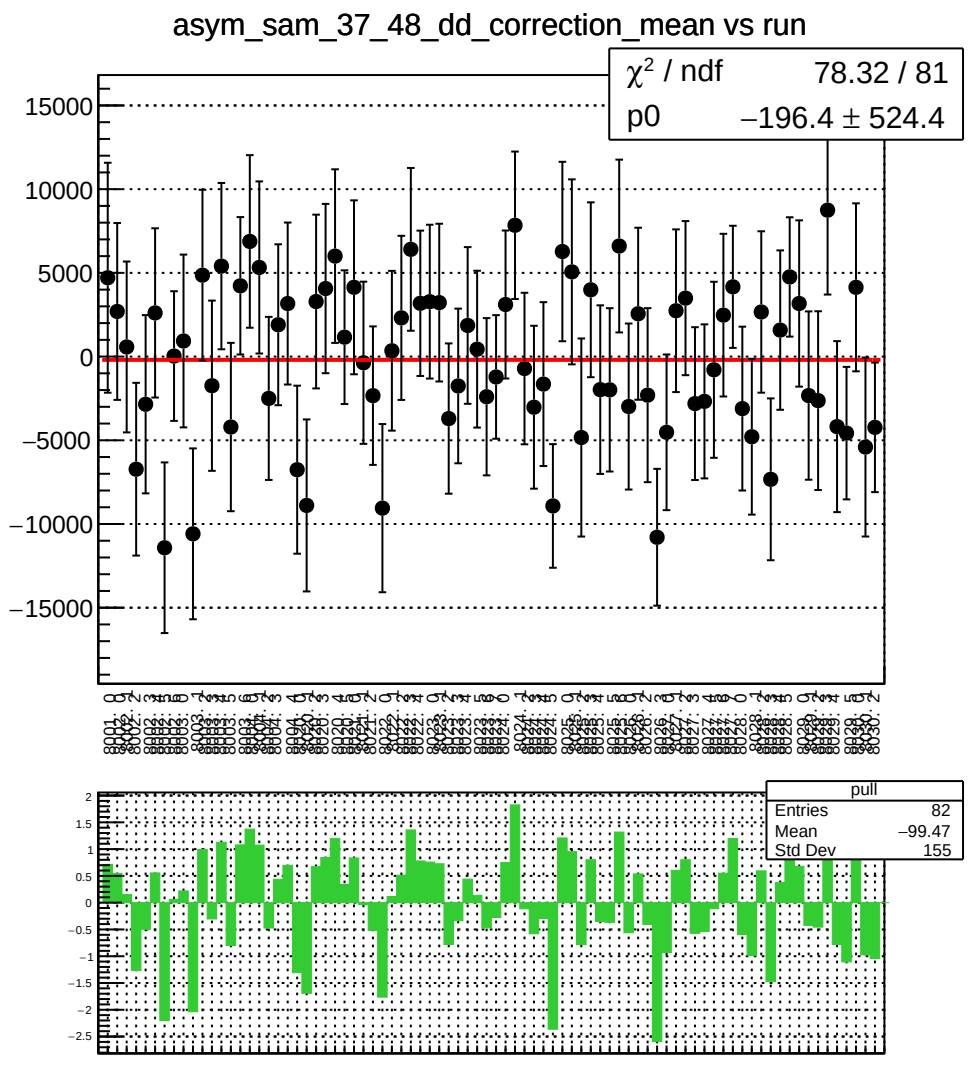

pull1D
Entries 82
Mean −0.006482
Std Dev 0.9181

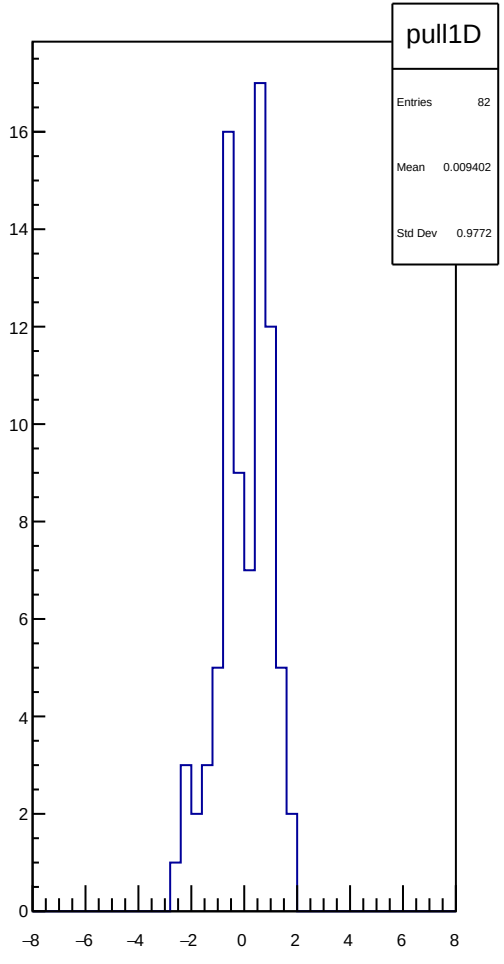

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.414e+04 / 81
p0 977.5 ± 0.776
1250
1200
1150
1100
1050
1000
950
900
850

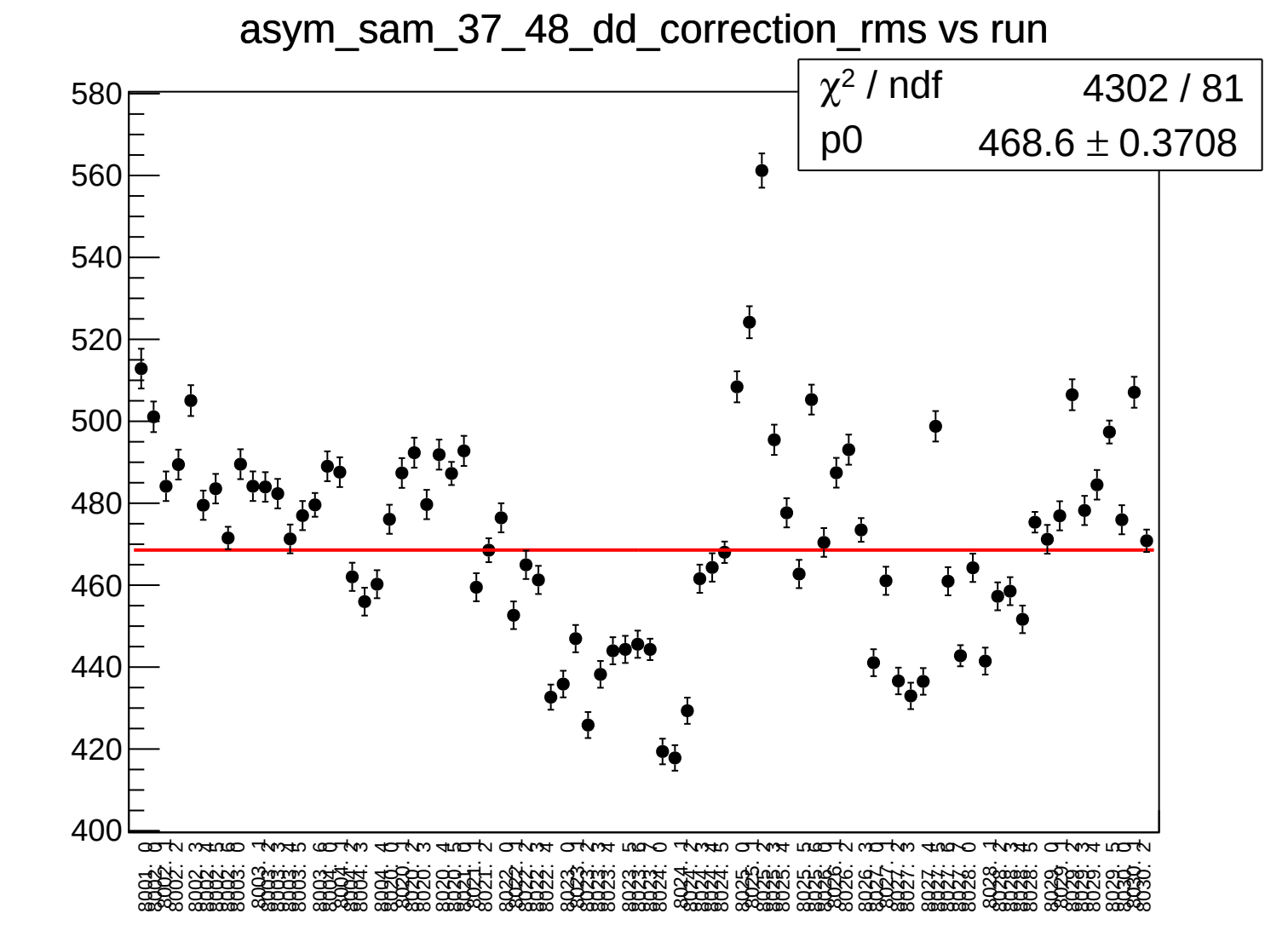

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 78.23 / 81
p0 −13 ± 68.28
2000
1000
0
−1000
−2000
pull
Entries 82
Mean 314.9
Std Dev 257.1
2
1
0
−1
−2

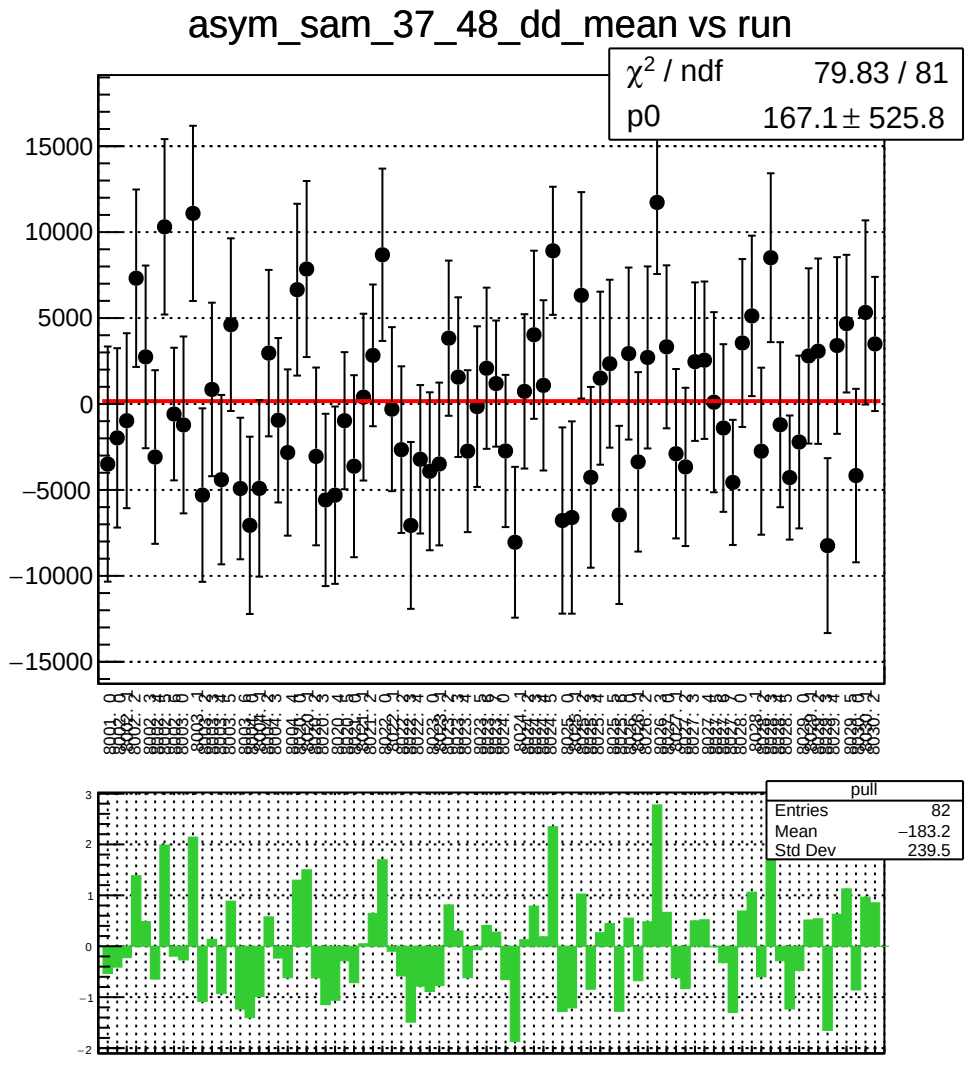

pull1D
Entries 82
Mean 0.005999
Std Dev 0.9767
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

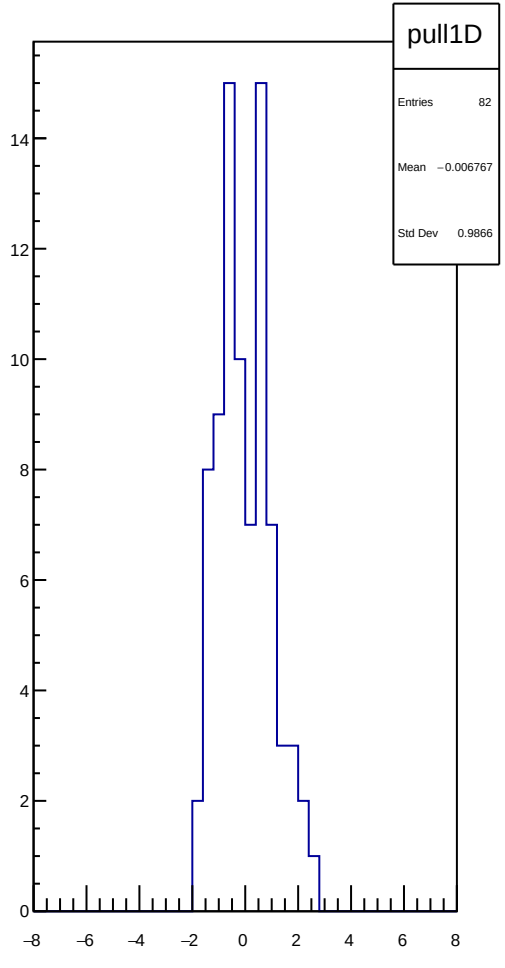

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1276 / 81
p0 61.06 ± 0.04828
66
65
64
63
62
61
60
59
58
57

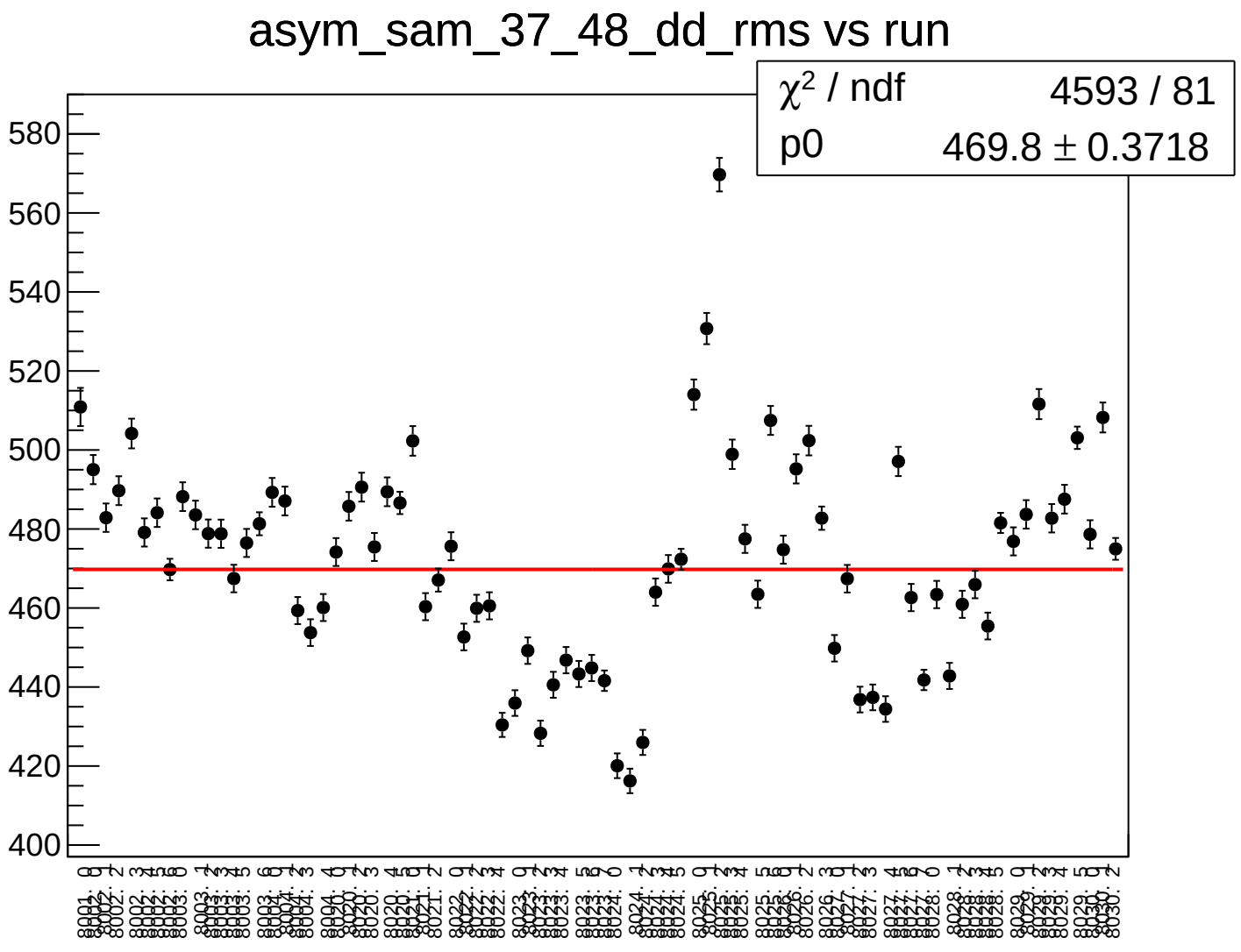

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 78.32 / 81
p0 −196.4 ± 524.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −99.47
Std Dev 155
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

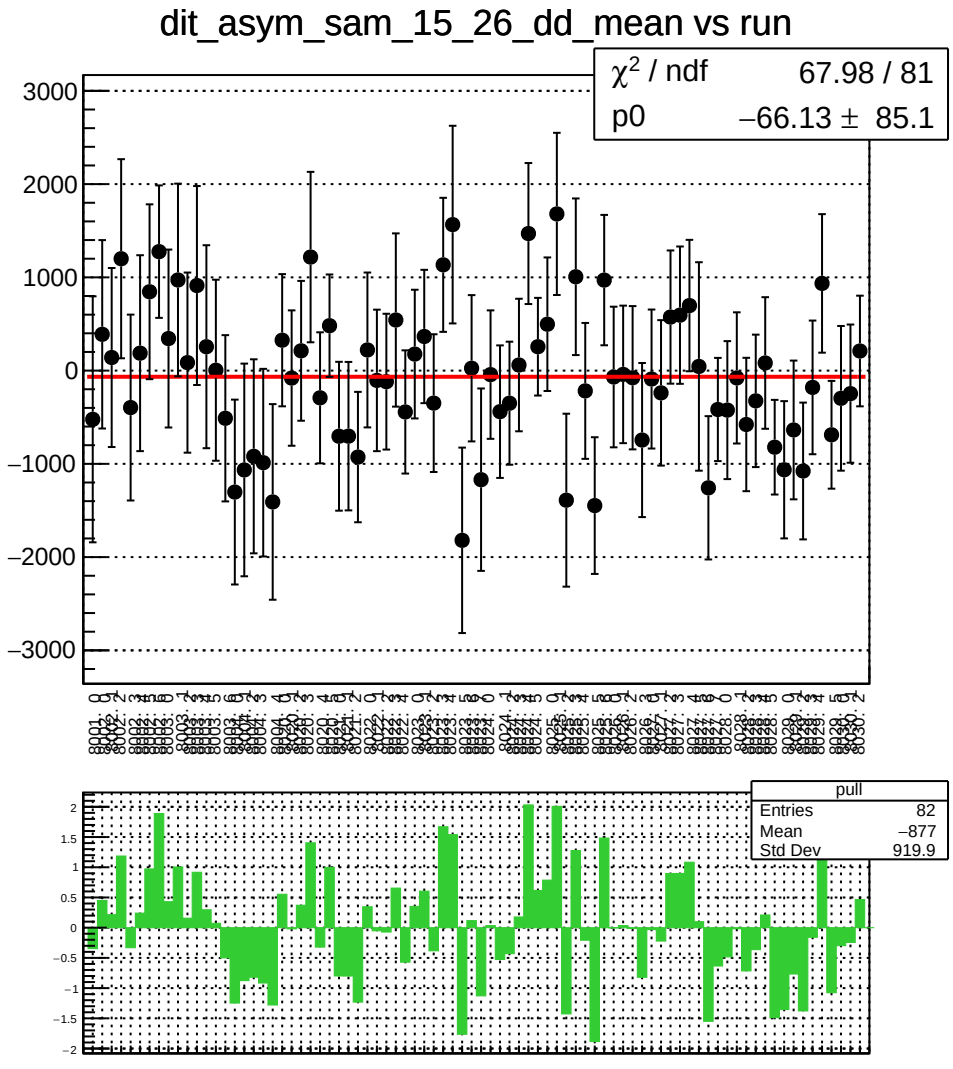

pull1D
Entries 82
Mean 0.009402
Std Dev 0.9772
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

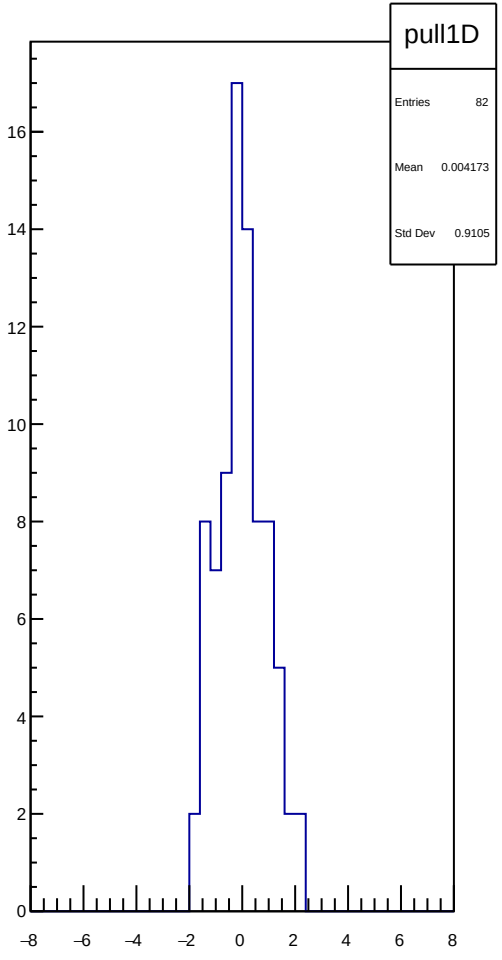

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 4302 / 81
p0 468.6 ± 0.3708
580
560
540
520
500
480
460
440
420
400

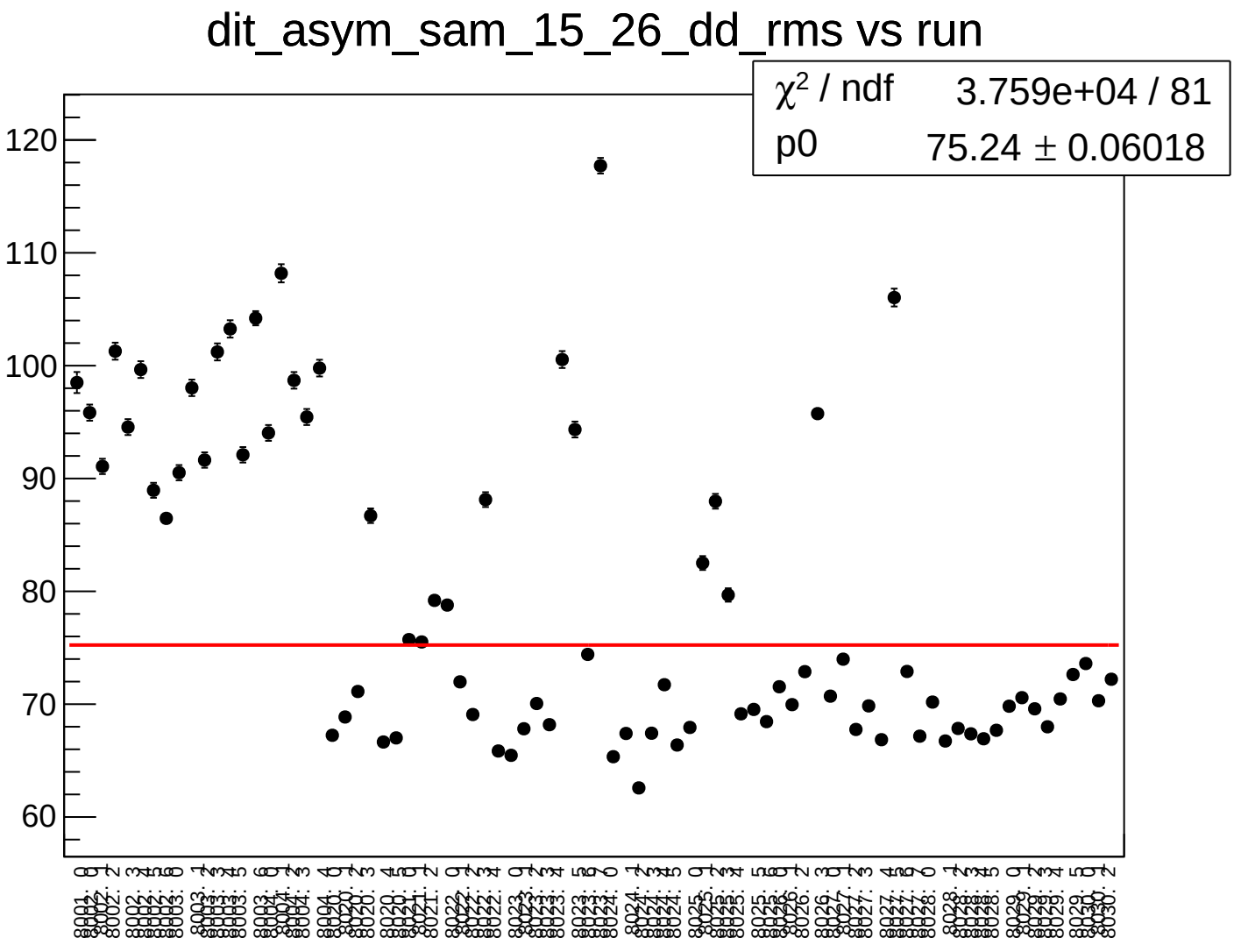

asym_sam_37_48_dd_mean vs run
χ² / ndf 79.83 / 81
p0 167.1 ± 525.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −183.2
Std Dev 239.5
3
2
1
0
−1
−2

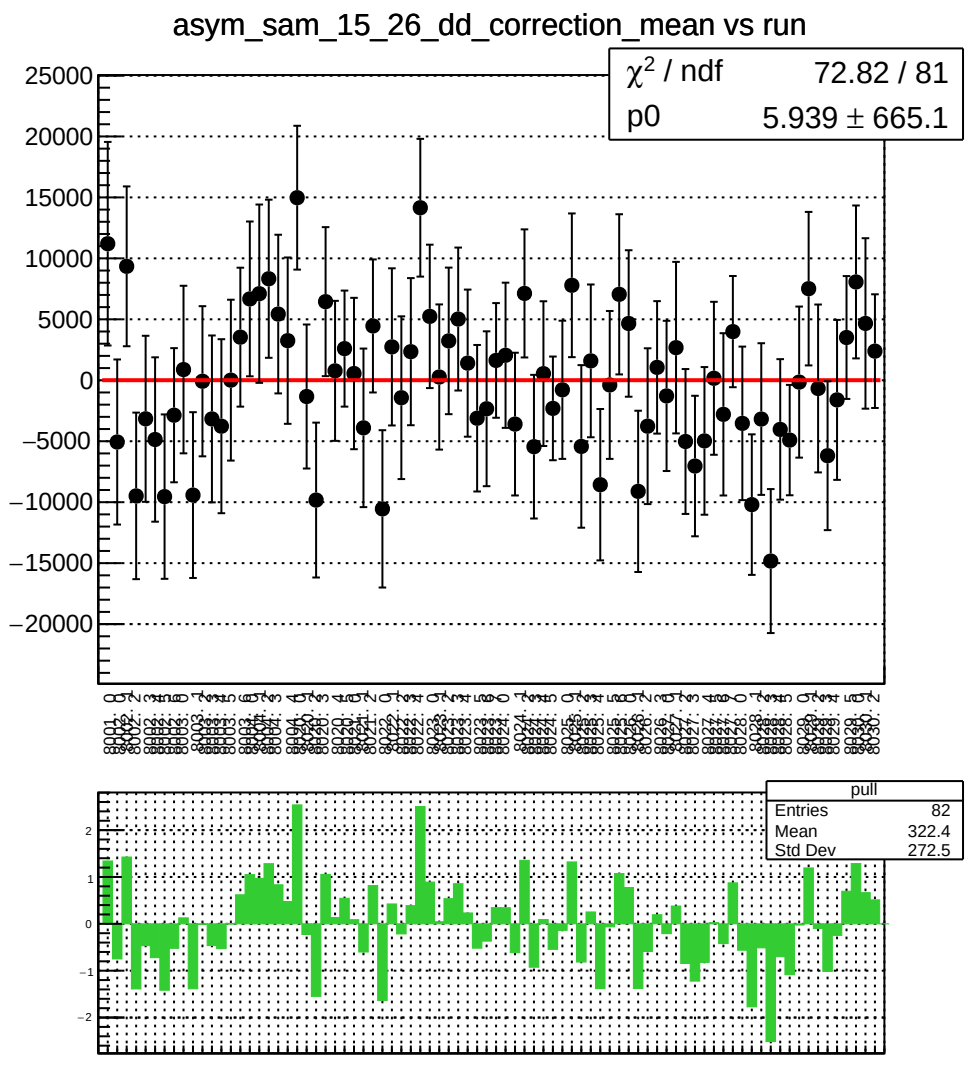

pull1D
Entries 82
Mean −0.006767
Std Dev 0.9866
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

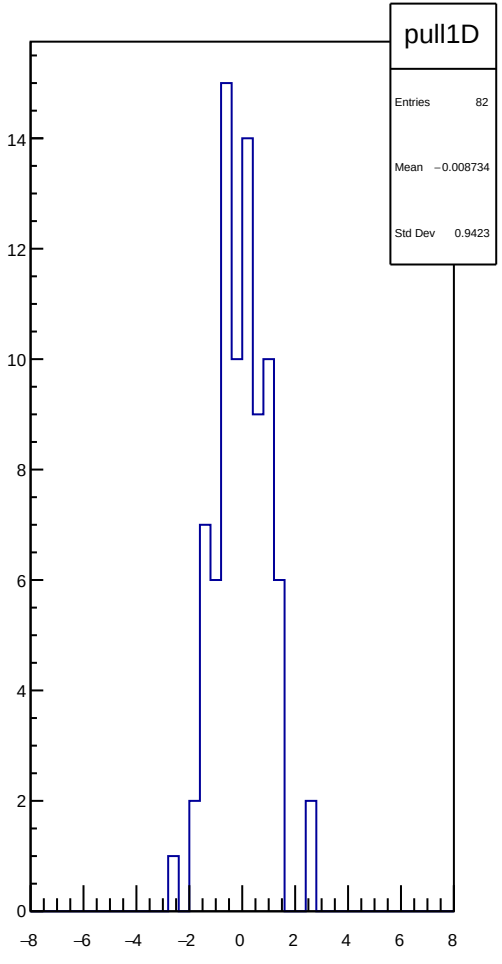

asym_sam_37_48_dd_rms vs run
χ² / ndf 4593 / 81
p0 469.8 ± 0.3718
580
560
540
520
500
480
460
440
420
400

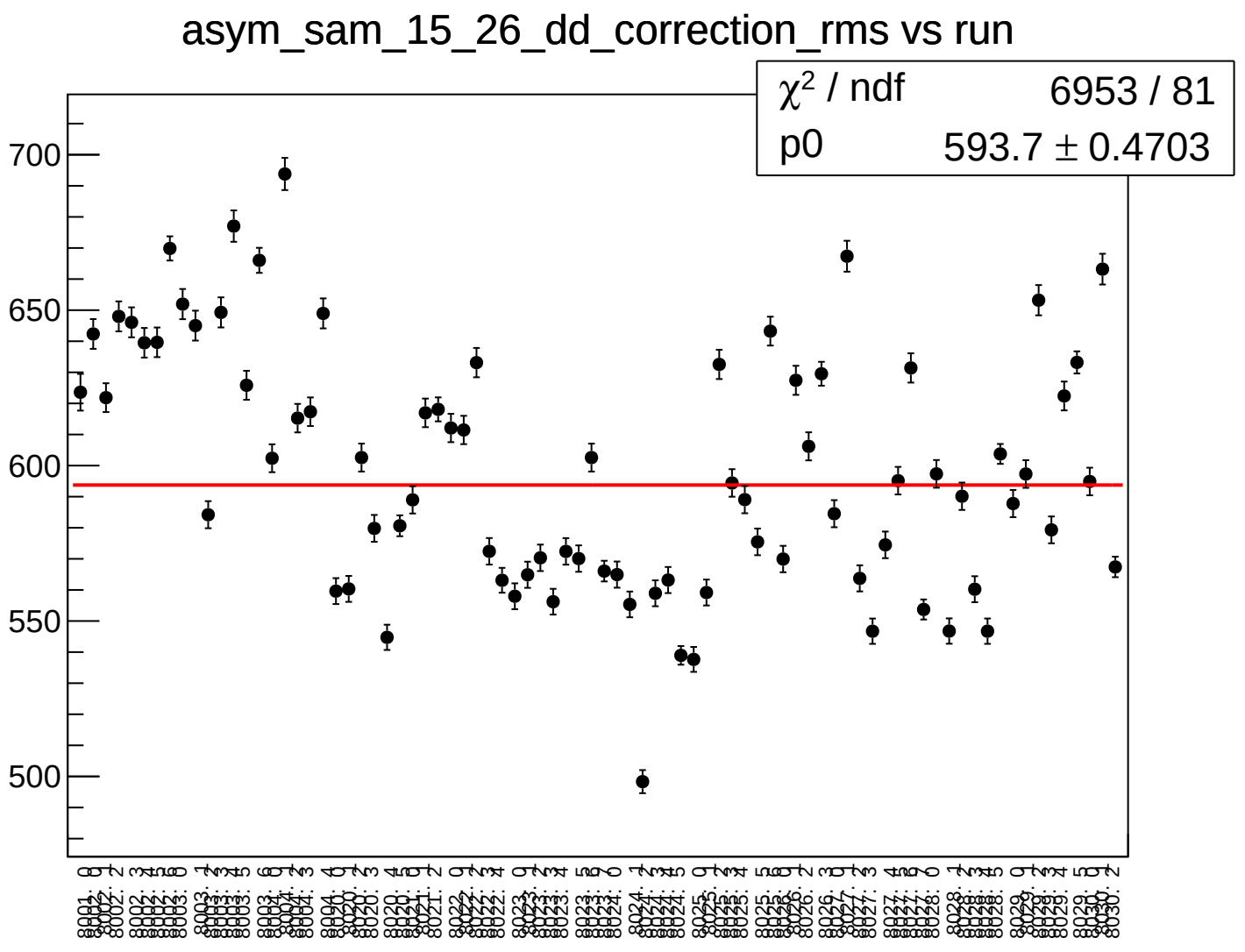

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 67.98 / 81
p0 −66.13 ± 85.1
pull
Entries 82
Mean −877
Std Dev 919.9

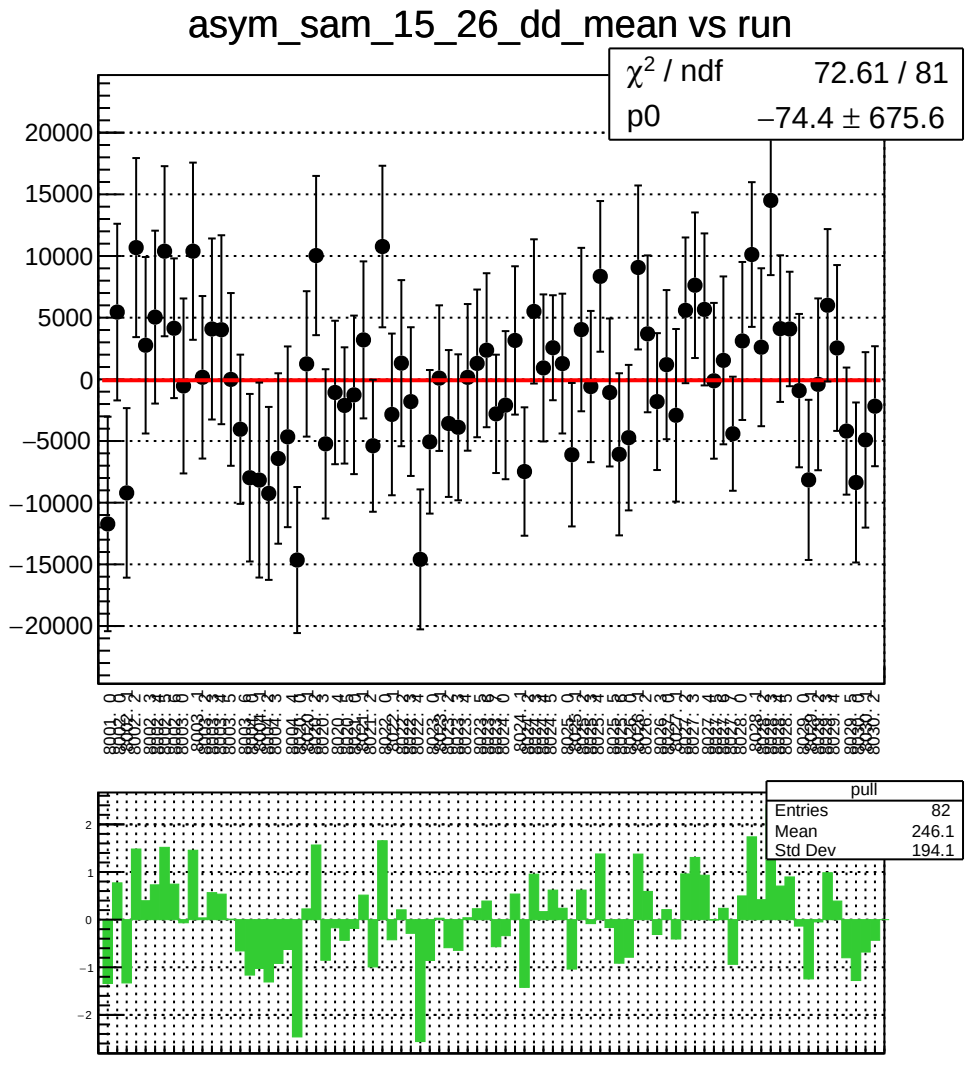

pull1D
Entries 82
Mean 0.004173
Std Dev 0.9105

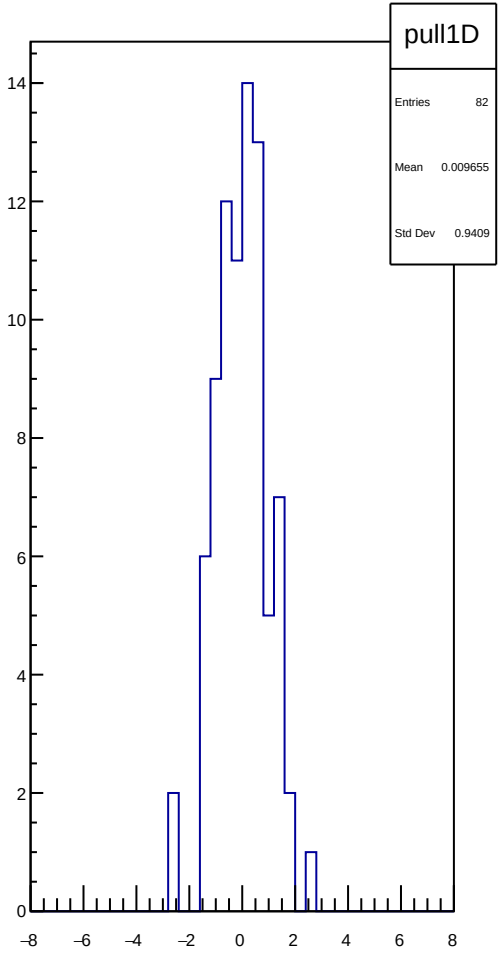

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 3.759e+04 / 81
p0 75.24 ± 0.06018
120
110
100
90
80
70
60

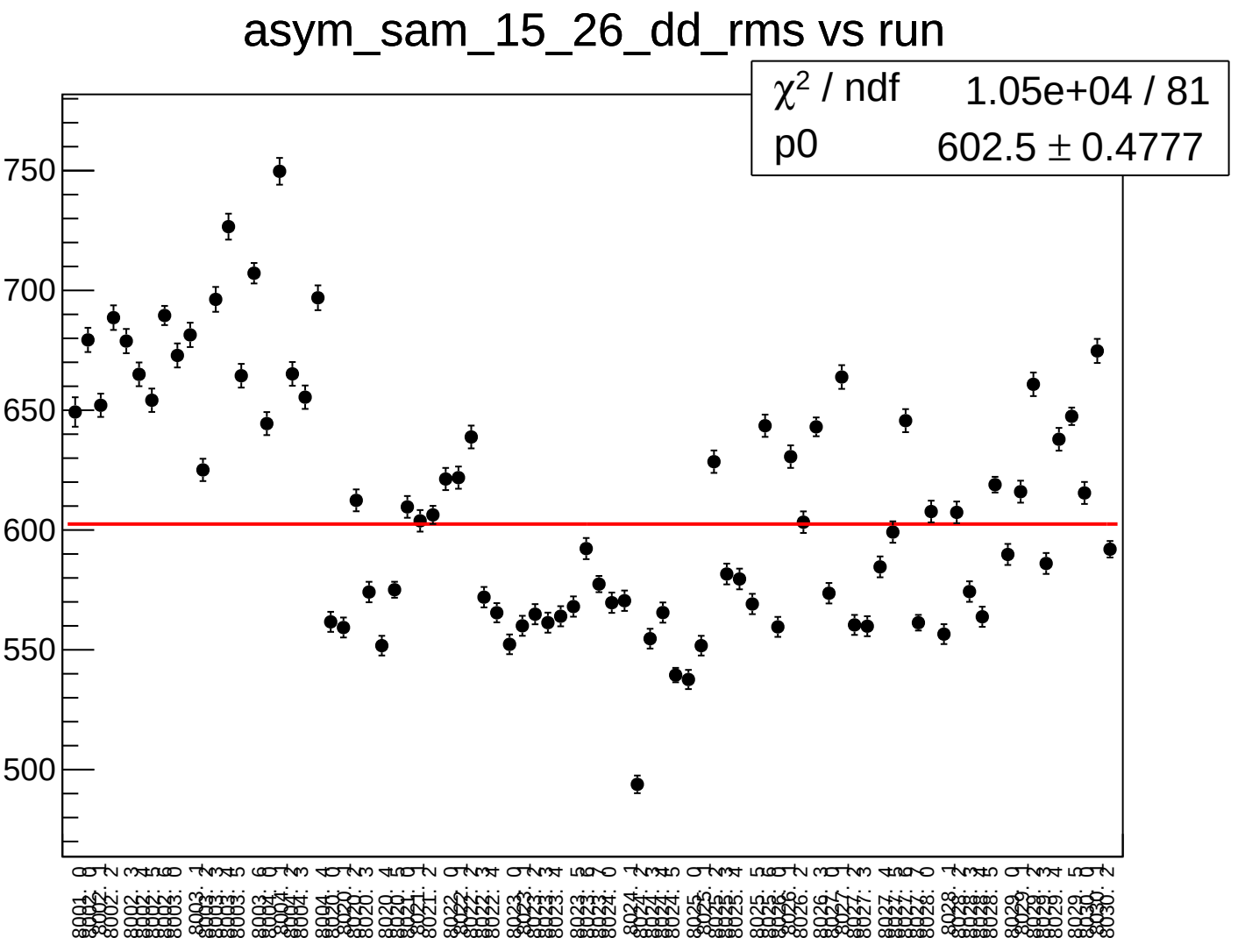

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 72.82 / 81
p0 5.939 ± 665.1
pull
Entries 82
Mean 322.4
Std Dev 272.5

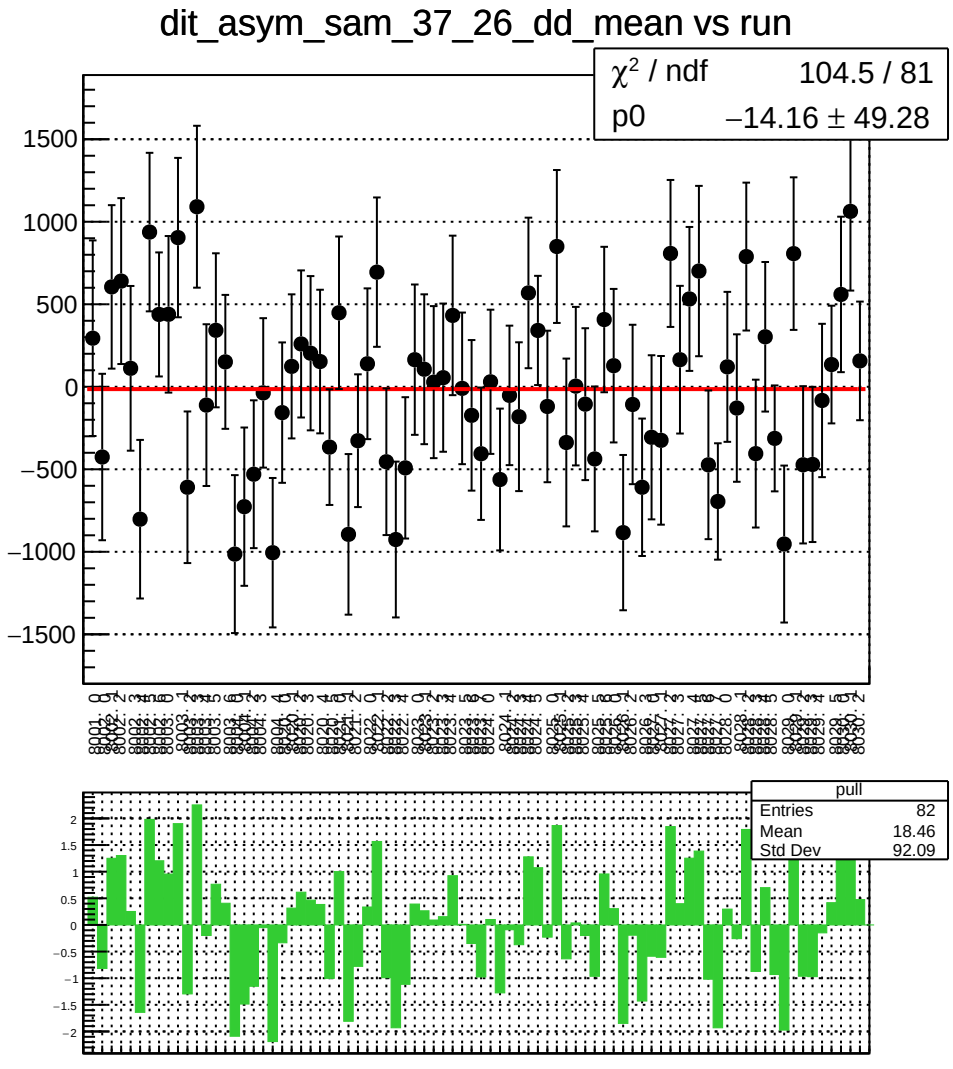

pull1D
Entries 82
Mean −0.008734
Std Dev 0.9423

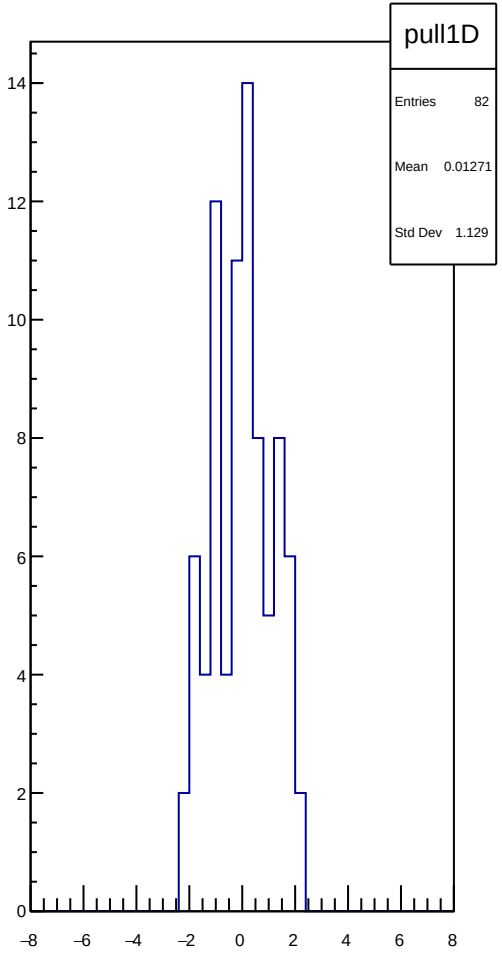

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 6953 / 81
p0 593.7 ± 0.4703
700
650
600
550
500

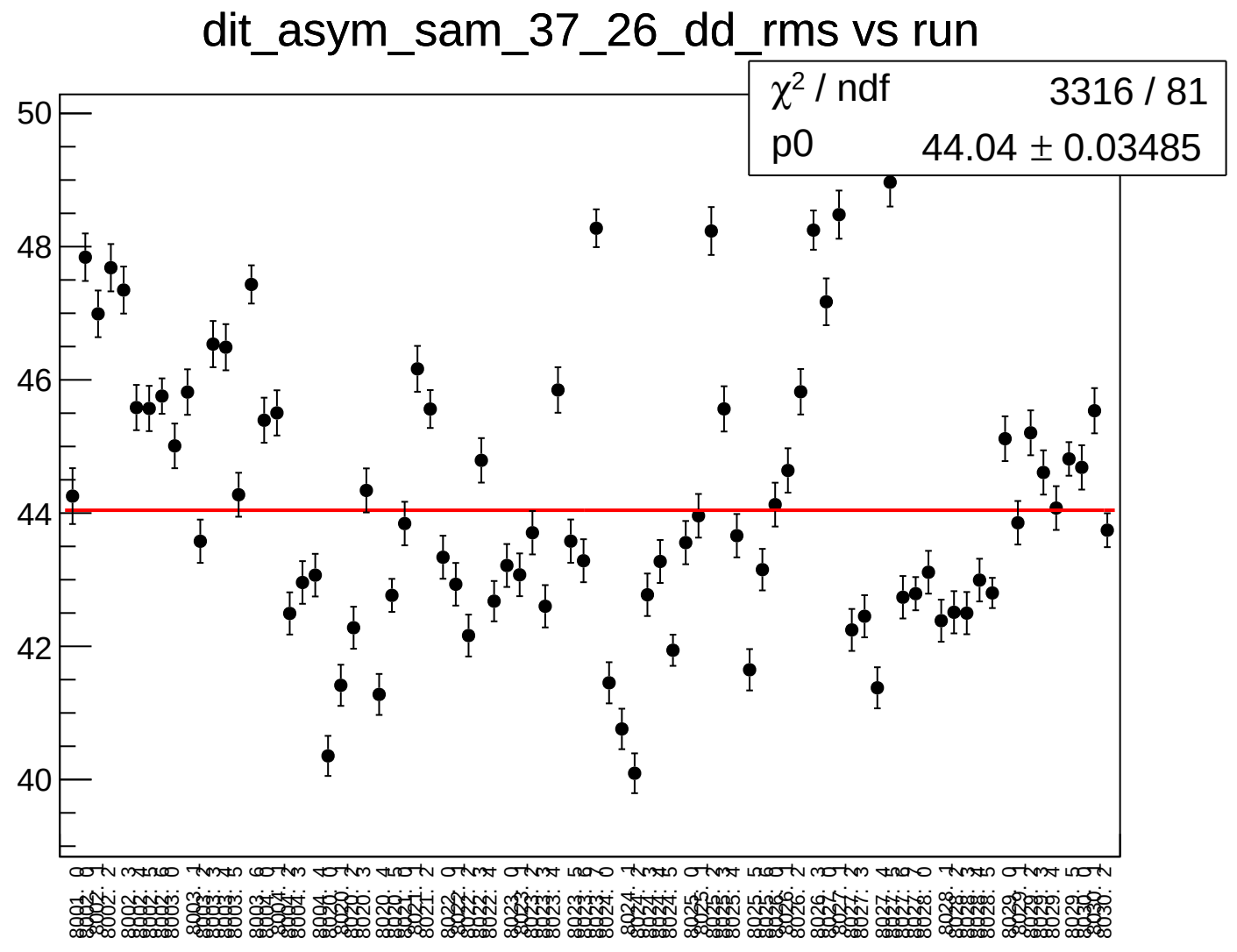

asym_sam_15_26_dd_mean vs run
χ² / ndf 72.61 / 81
p0 −74.4 ± 675.6
pull
Entries 82
Mean 246.1
Std Dev 194.1

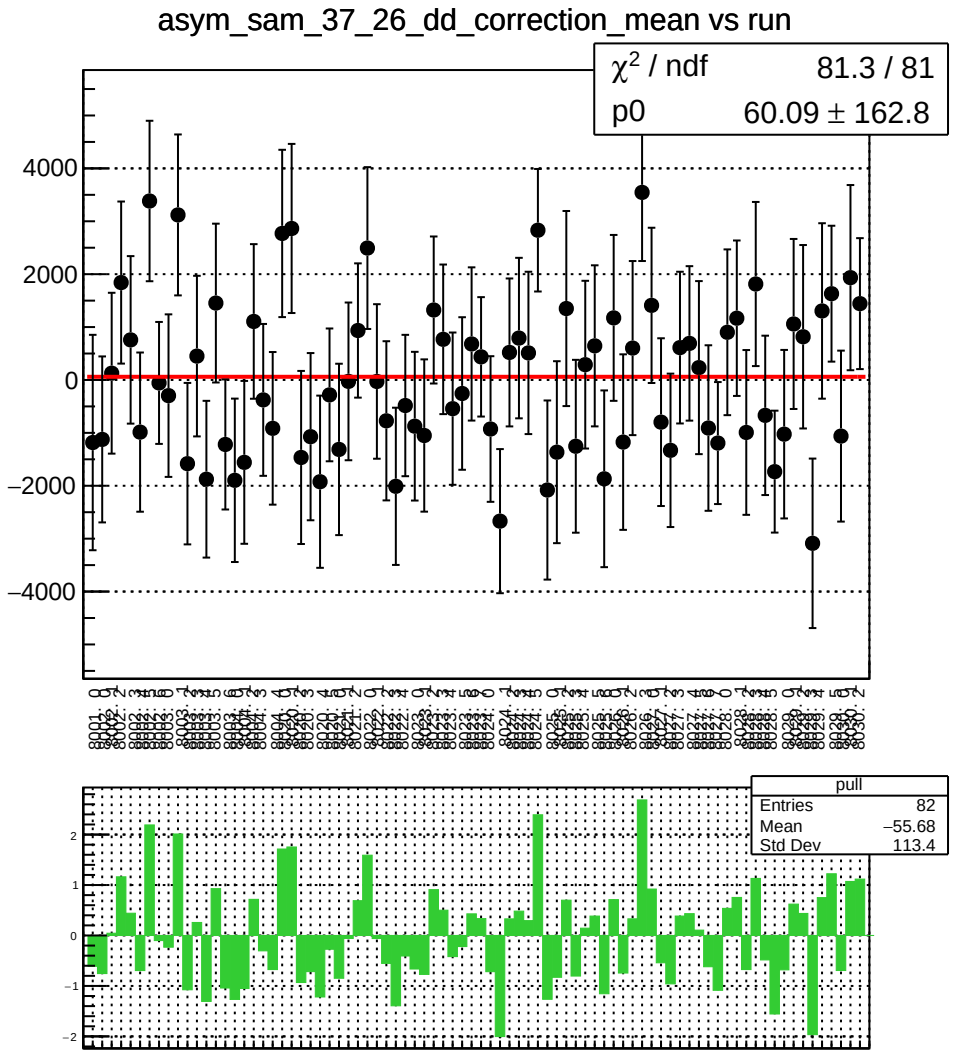

pull1D
Entries 82
Mean 0.009655
Std Dev 0.9409

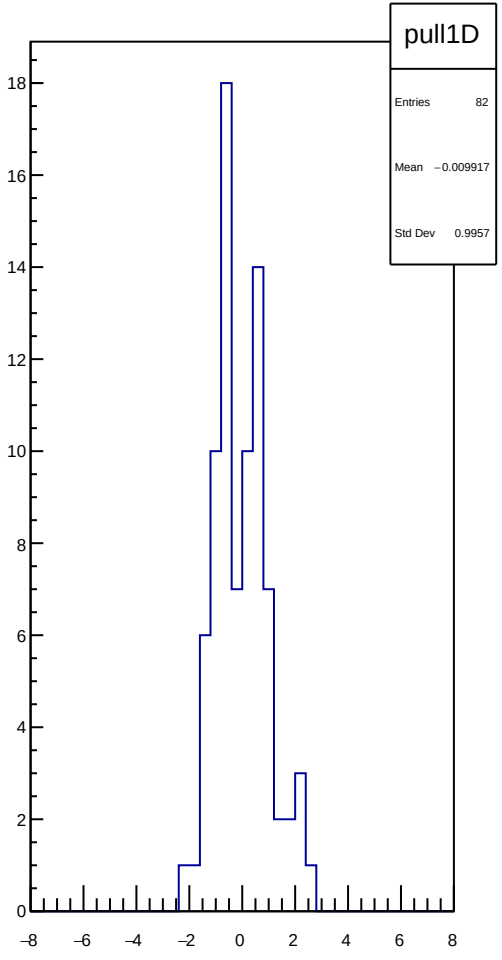

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.05e+04 / 81
p0 602.5 ± 0.4777
750
700
650
600
550
500

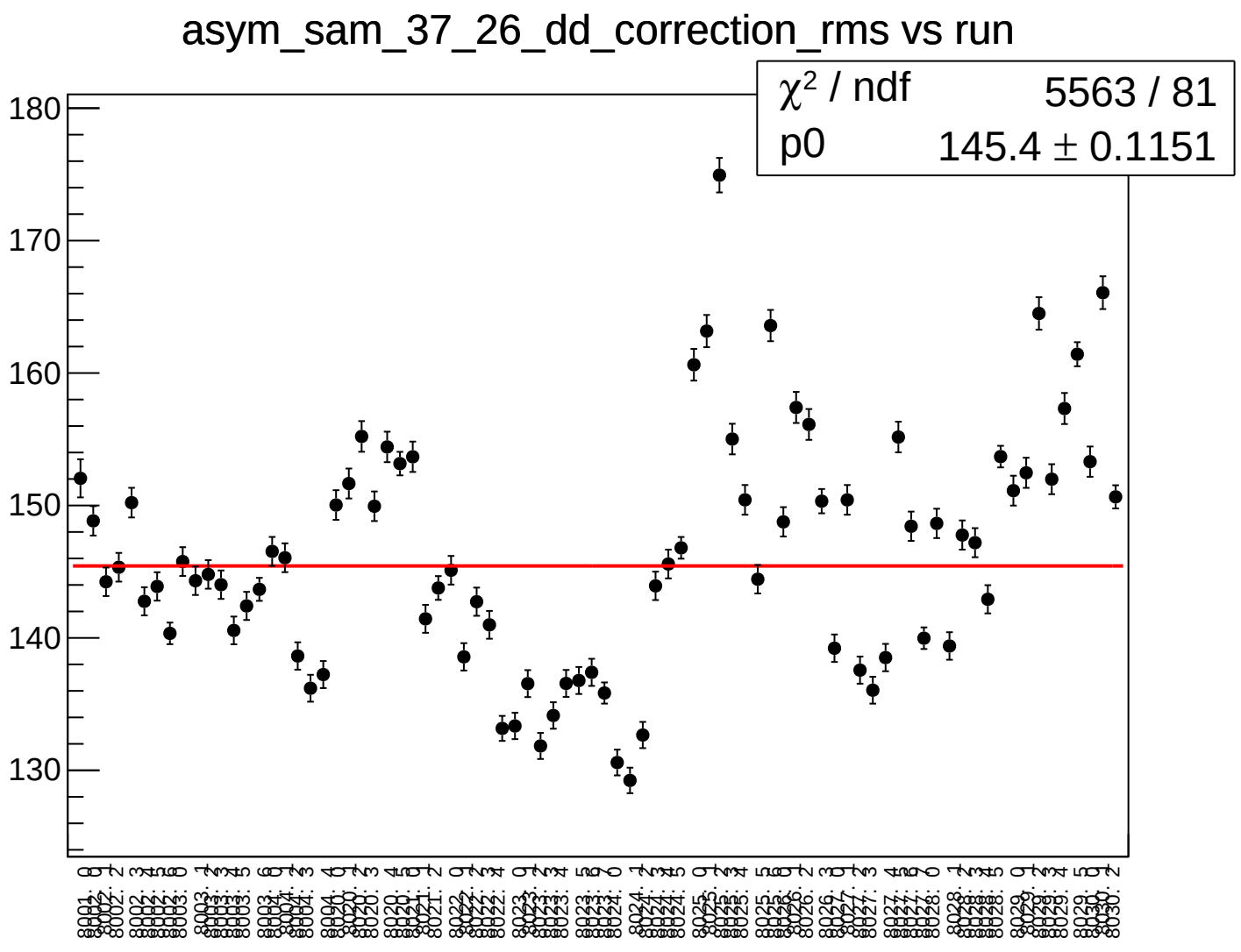

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 104.5 / 81
p0 −14.16 ± 49.28
1500
1000
500
0
−500
−1000
−1500
pull
Entries 82
Mean 18.46
Std Dev 92.09
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

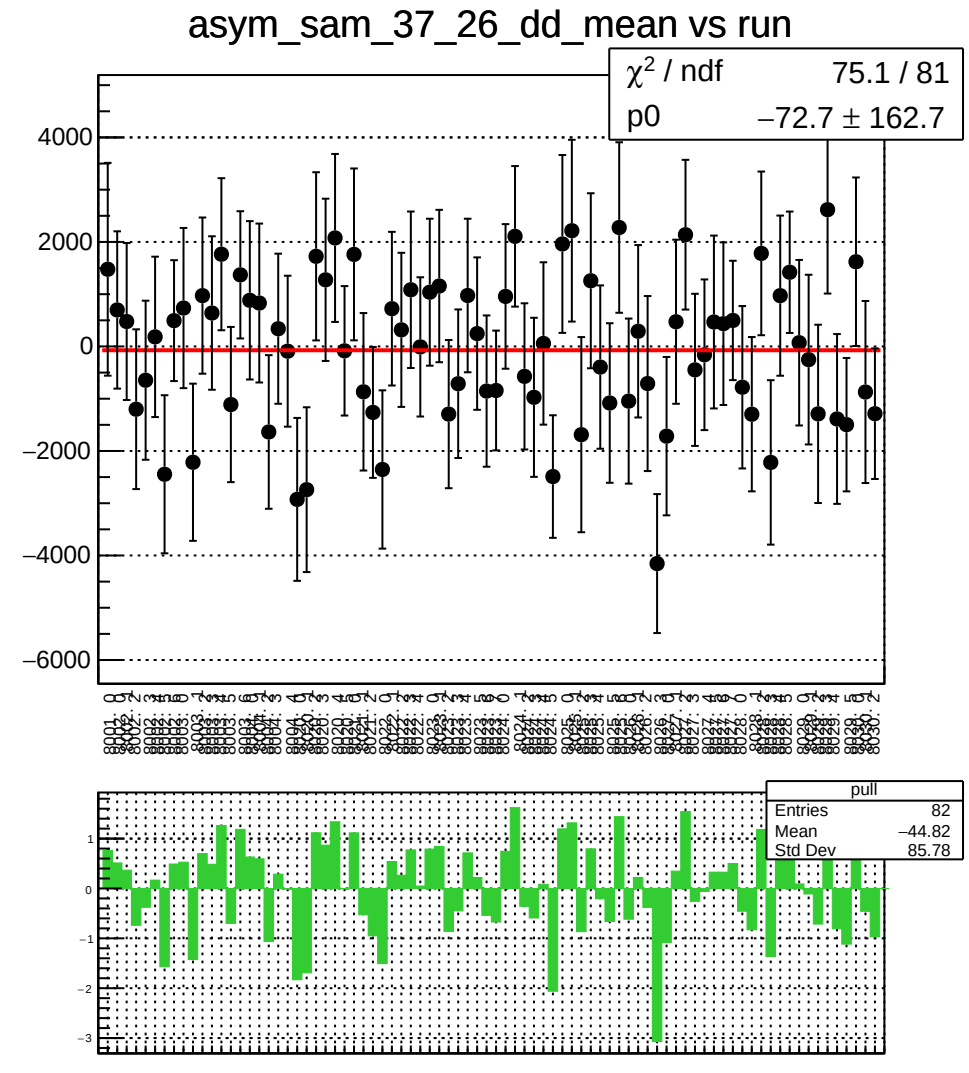

pull1D
Entries 82
Mean 0.01271
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

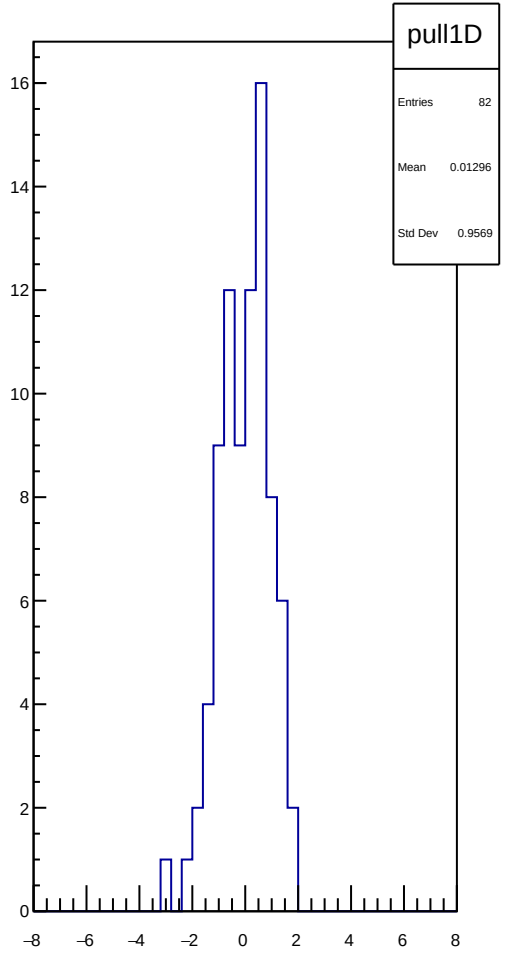

dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 3316 / 81
p0 44.04 ± 0.03485
50
48
46
44
42
40

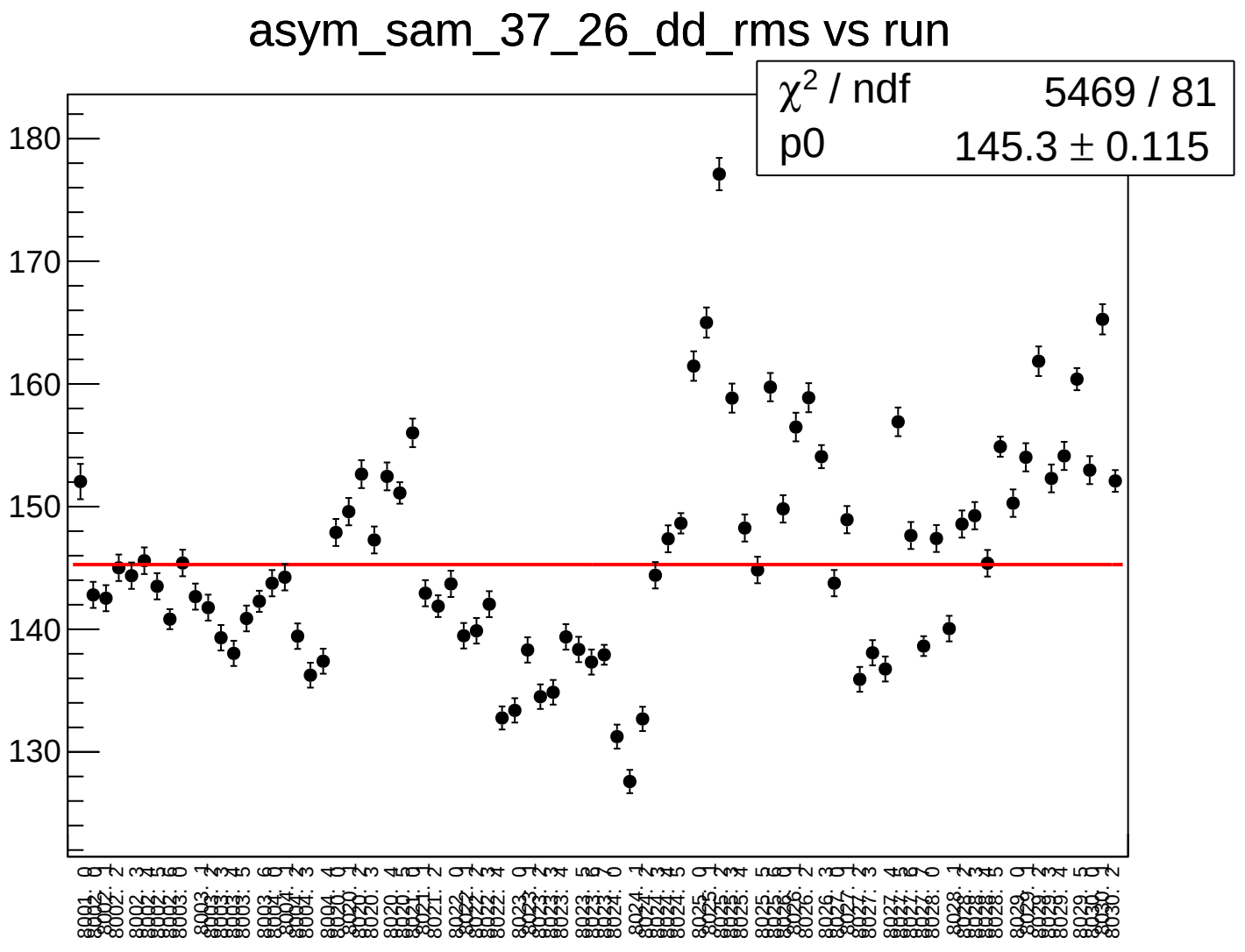

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 81.3 / 81
p0 60.09 ± 162.8
4000
2000
0
−2000
−4000
pull
Entries 82
Mean −55.68
Std Dev 113.4
2
1
0
−1
−2

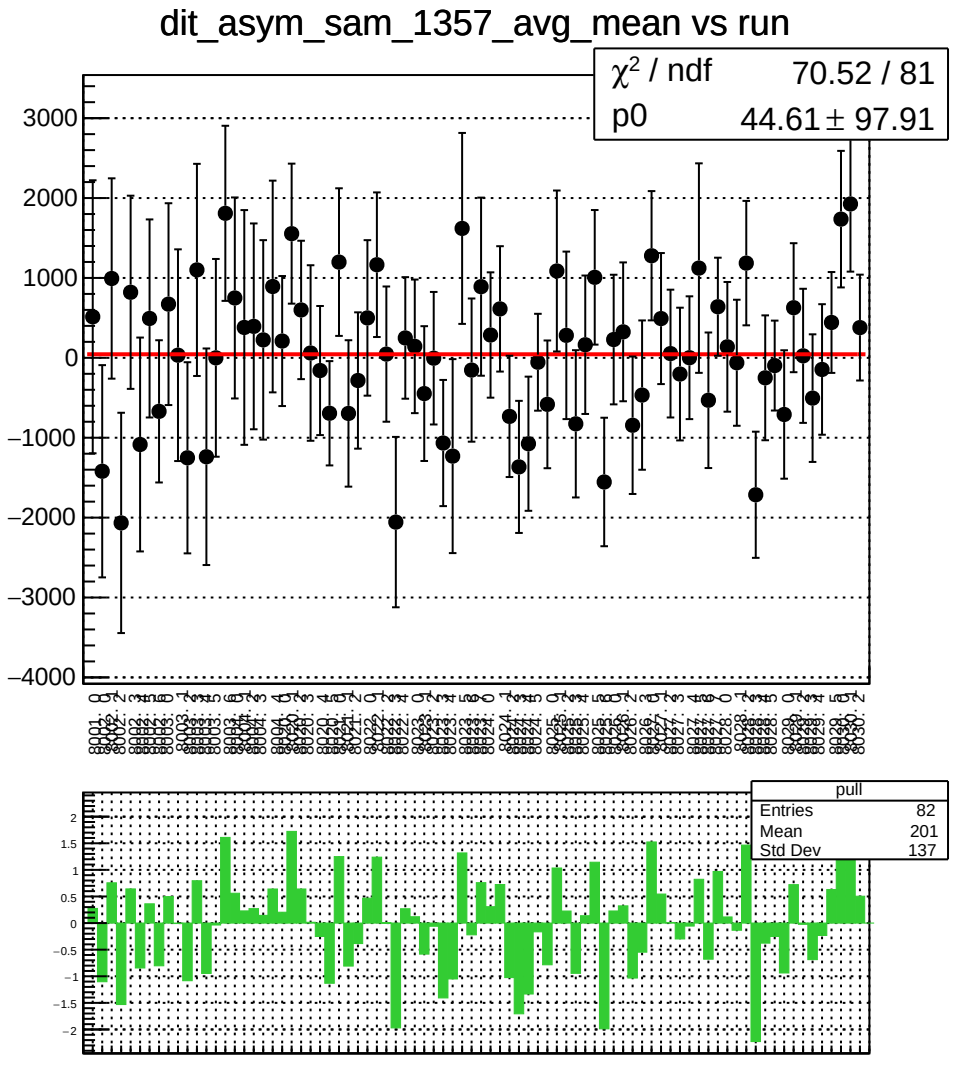

pull1D
Entries 82
Mean −0.009917
Std Dev 0.9957
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

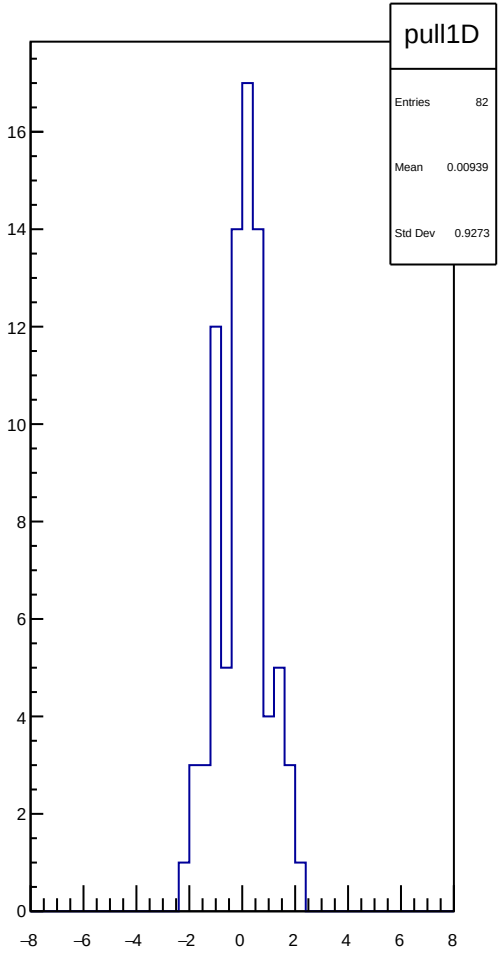

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 5563 / 81
p0 145.4 ± 0.1151
180
170
160
150
140
130

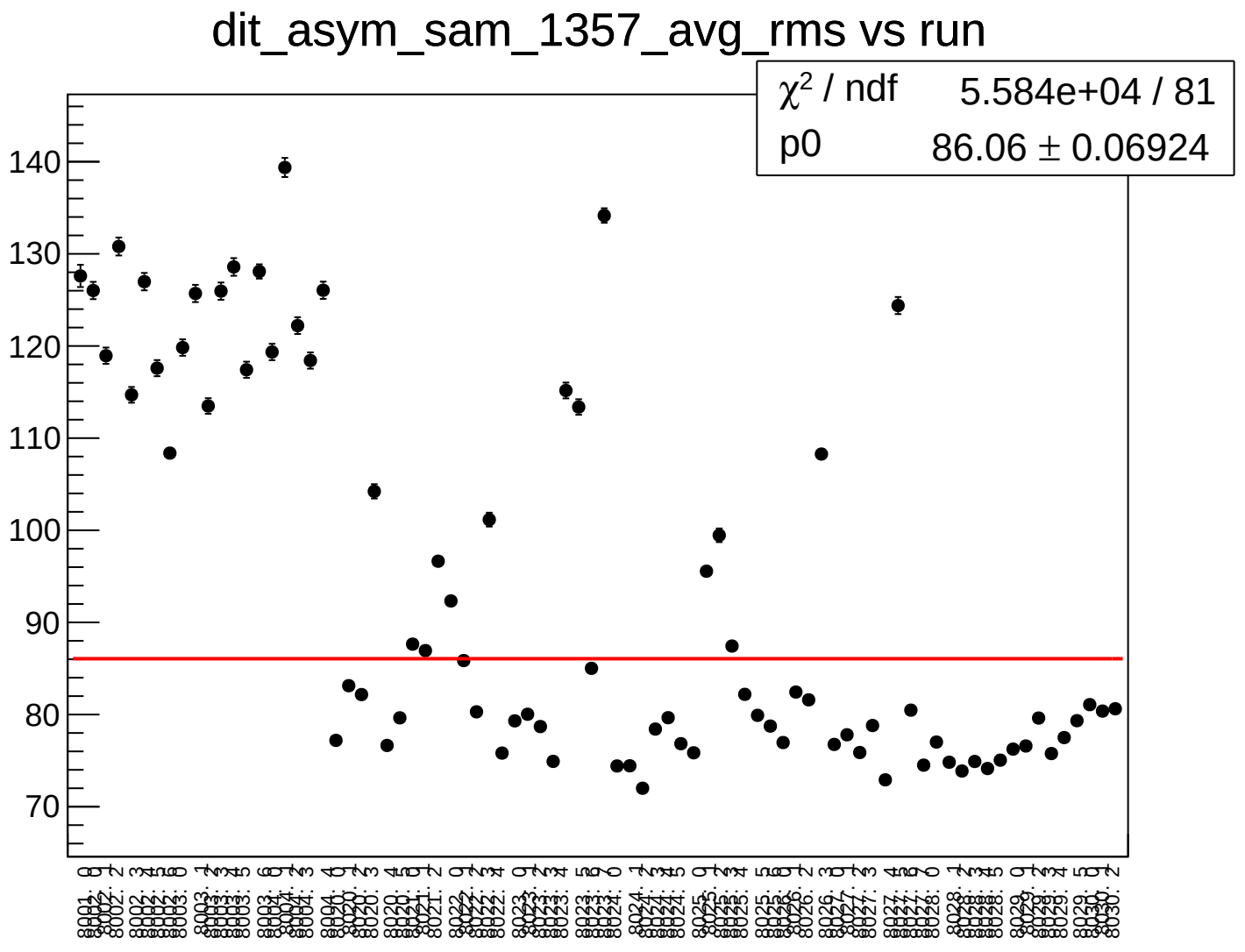

asym_sam_37_26_dd_mean vs run
χ² / ndf 75.1 / 81
p0 −72.7 ± 162.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 82
Mean −44.82
Std Dev 85.78
1
0
−1
−2
−3

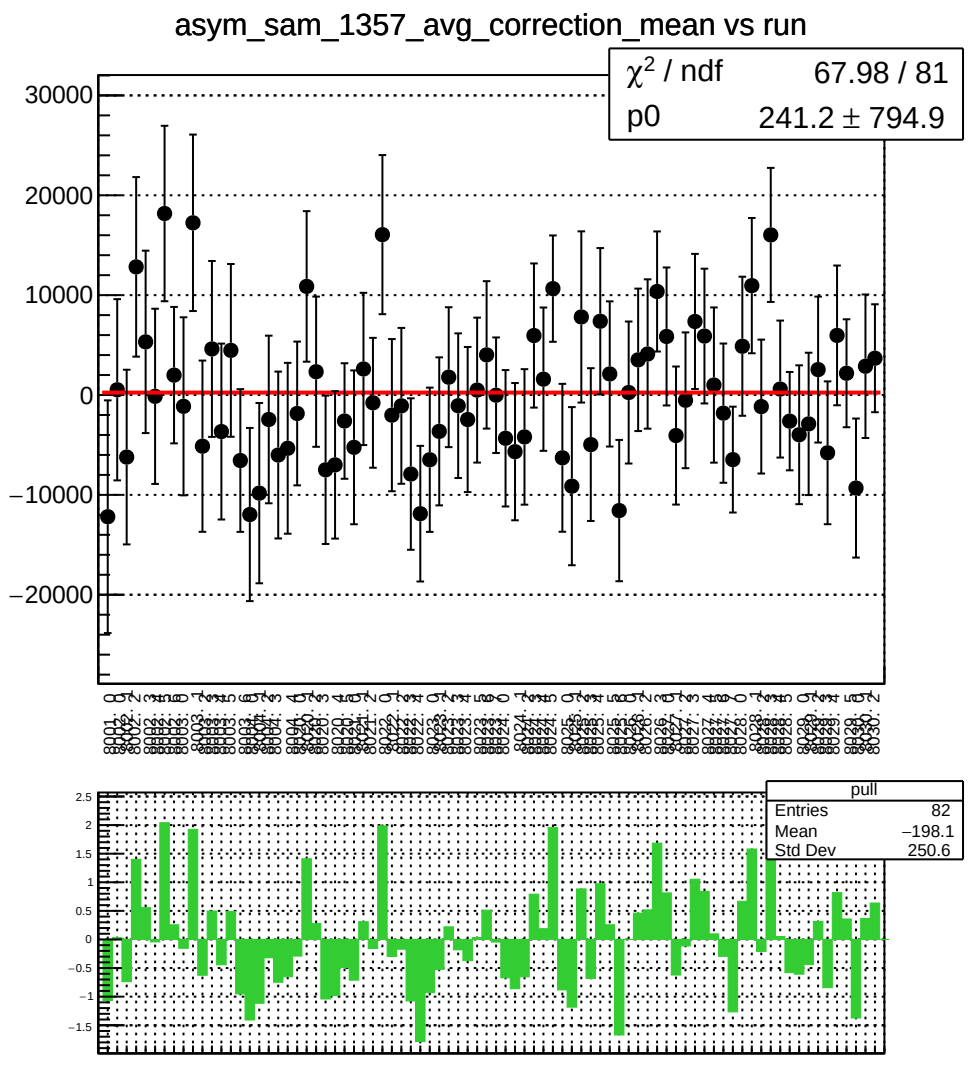

pull1D
Entries 82
Mean 0.01296
Std Dev 0.9569
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

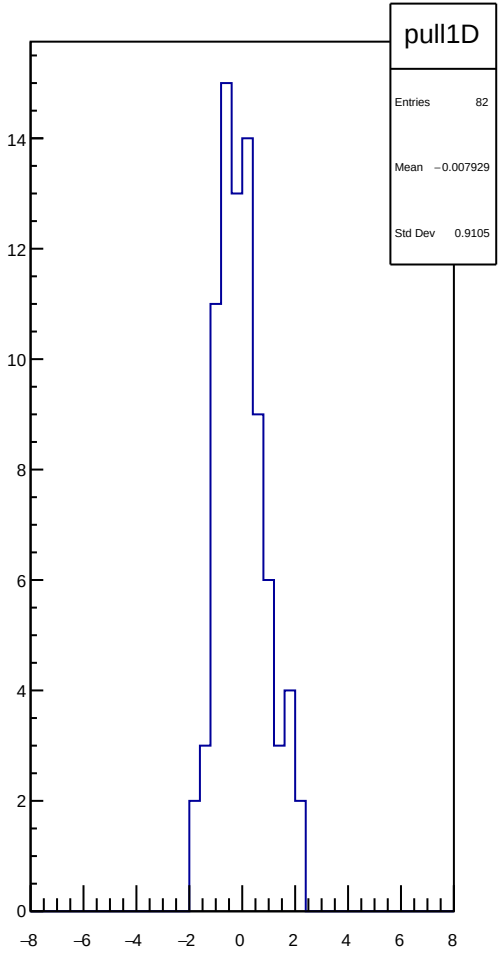

asym_sam_37_26_dd_rms vs run
χ² / ndf 5469 / 81
p0 145.3 ± 0.115
180
170
160
150
140
130

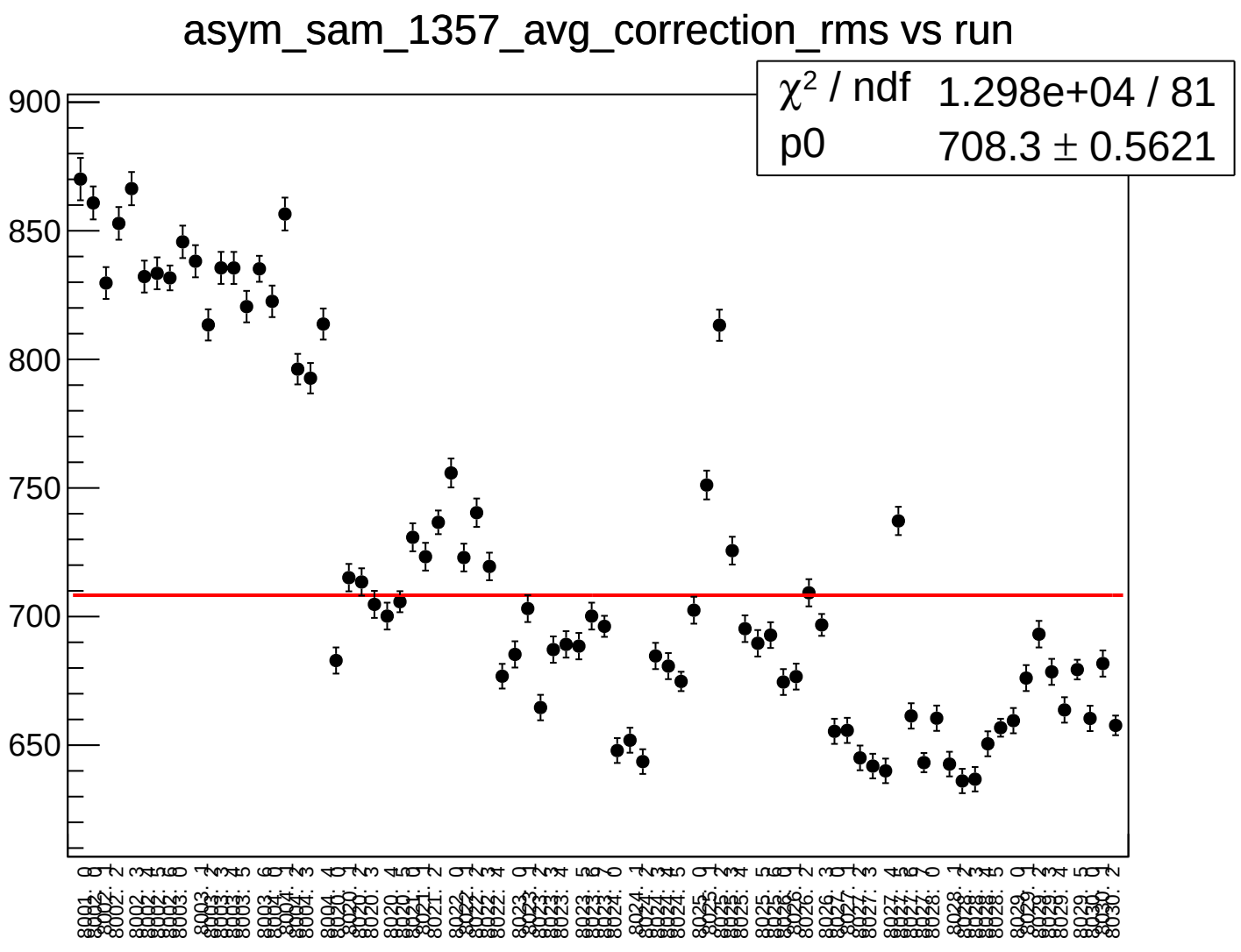

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 70.52 / 81
p0 44.61 ± 97.91
pull
Entries 82
Mean 201
Std Dev 137

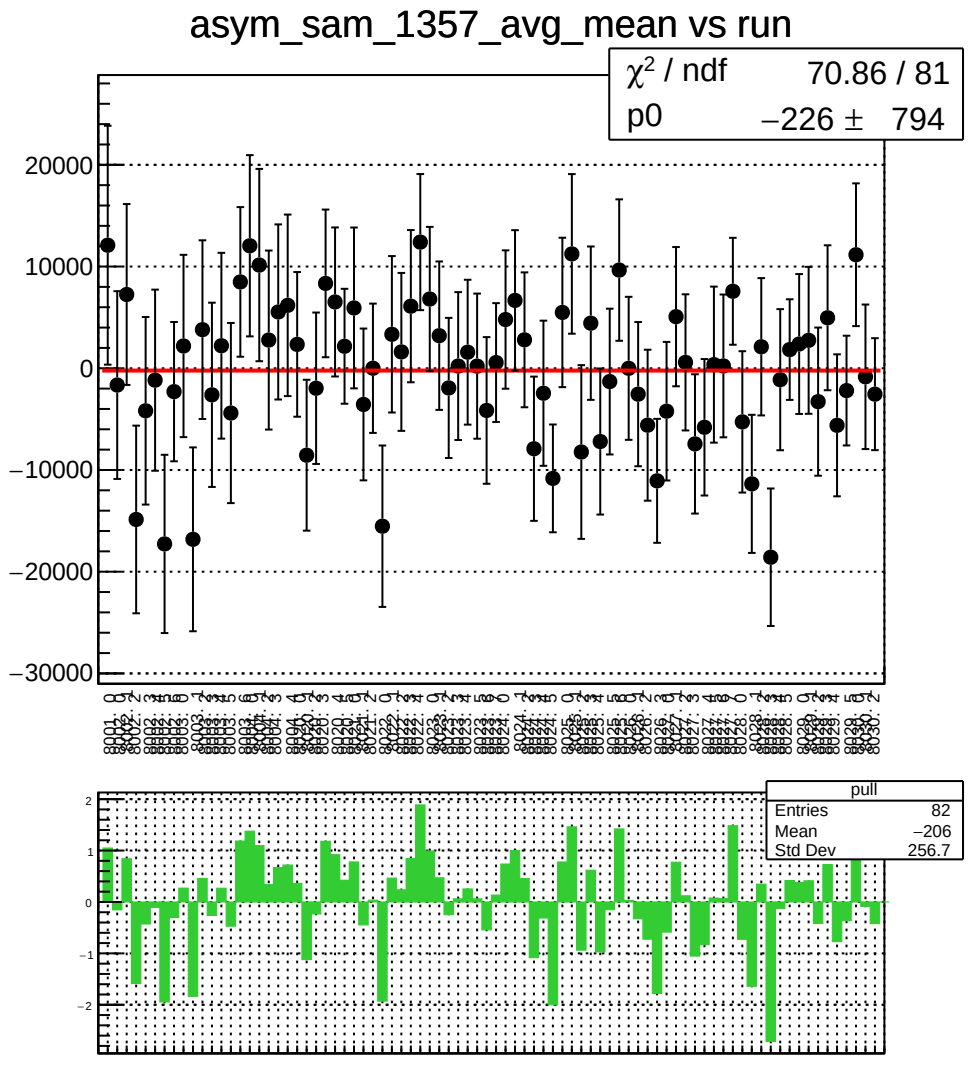

pull1D
Entries 82
Mean 0.00939
Std Dev 0.9273

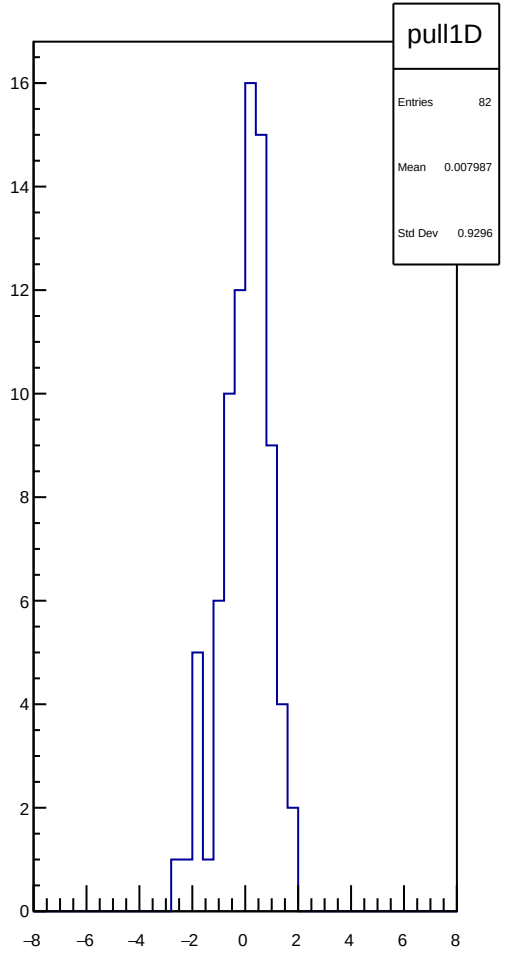

dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 5.584e+04 / 81
p0 86.06 ± 0.06924
140
130
120
110
100
90
80
70

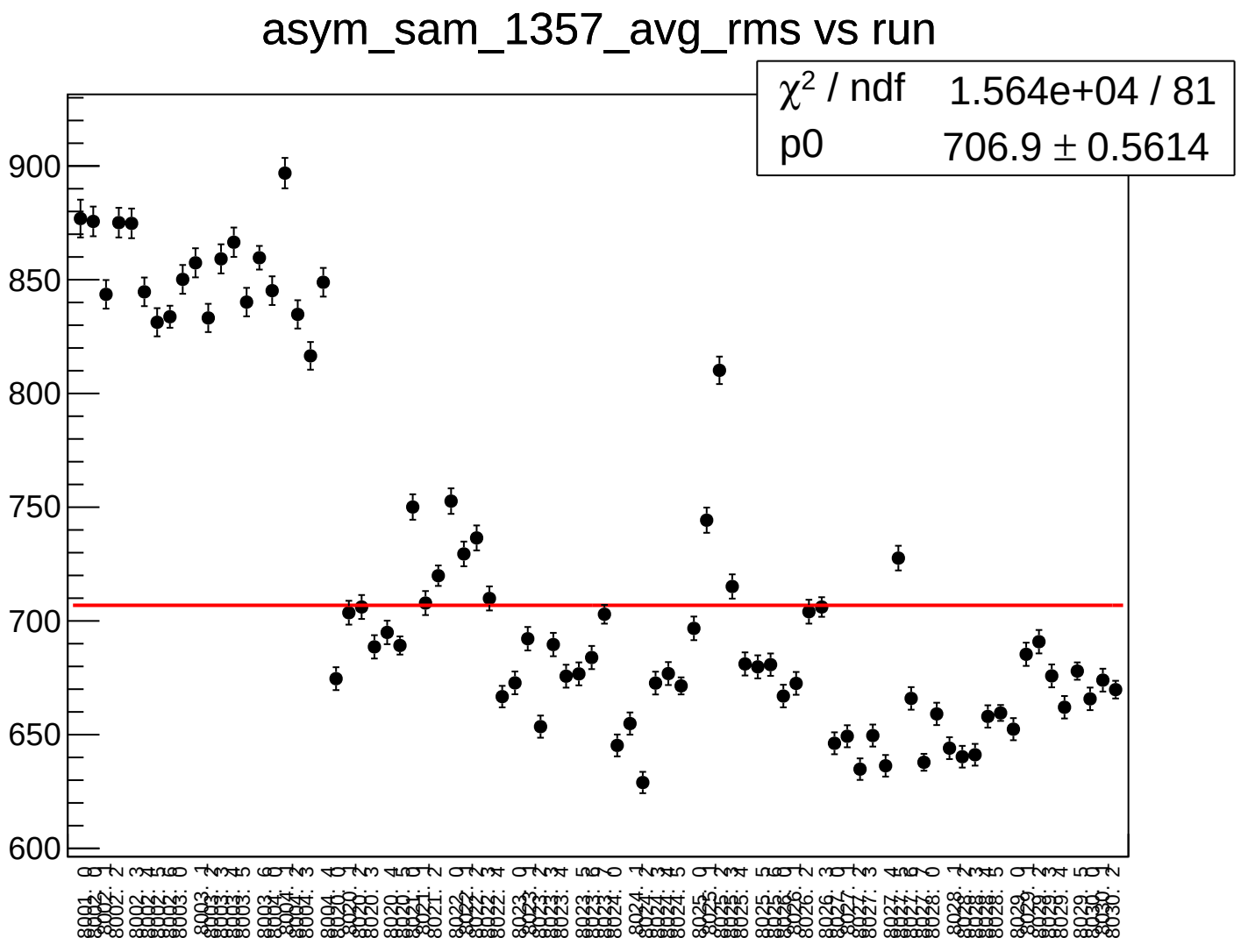

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 67.98 / 81
p0 241.2 ± 794.9
30000
20000
10000
0
−10000
−20000
pull
Entries 82
Mean −198.1
Std Dev 250.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

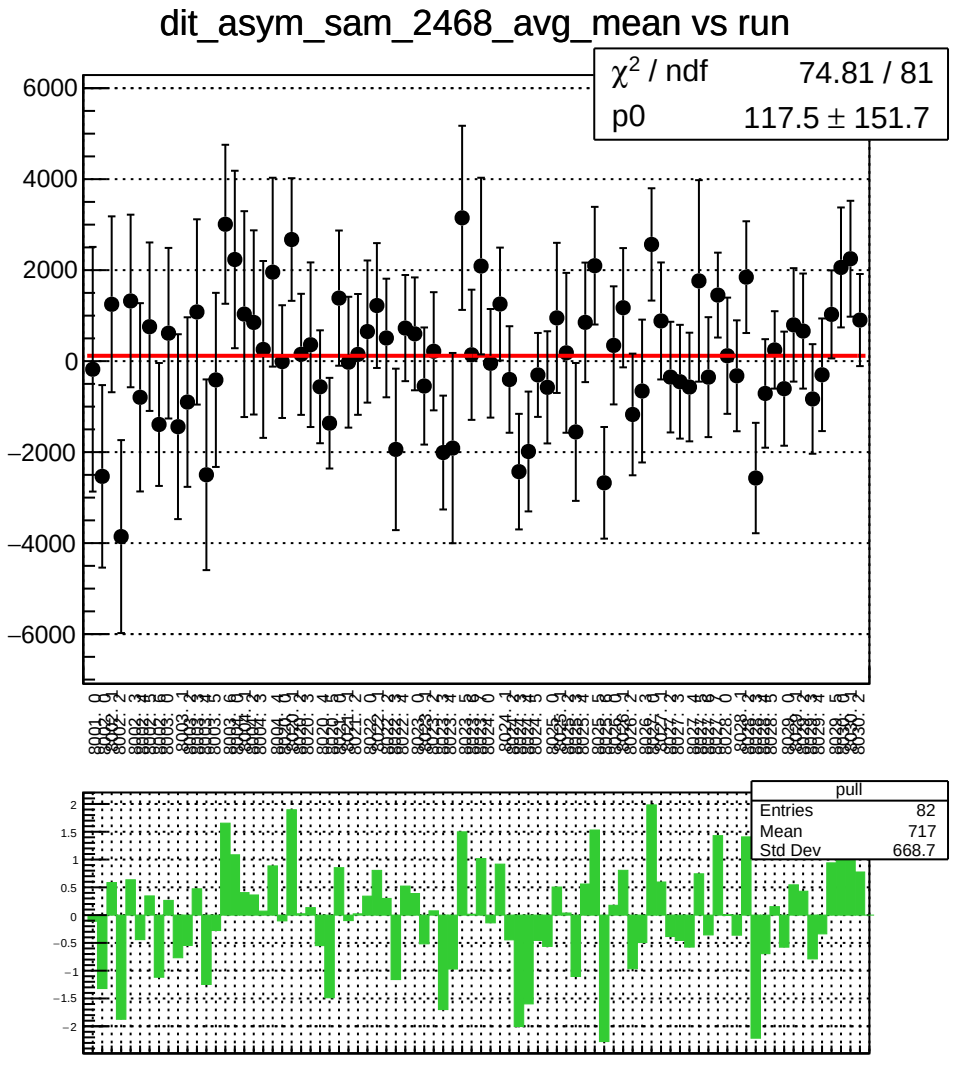

pull1D
Entries 82
Mean −0.007929
Std Dev 0.9105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

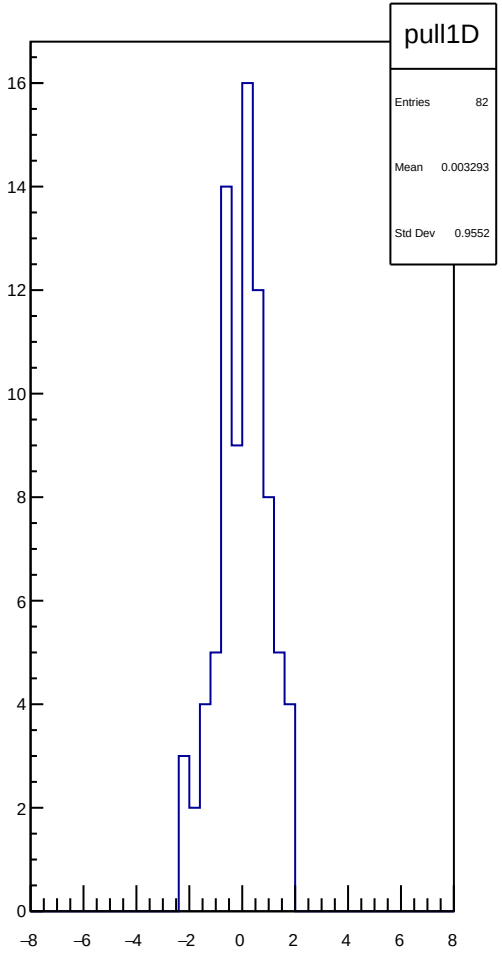

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 1.298e+04 / 81
p0 708.3 ± 0.5621
900
850
800
750
700
650

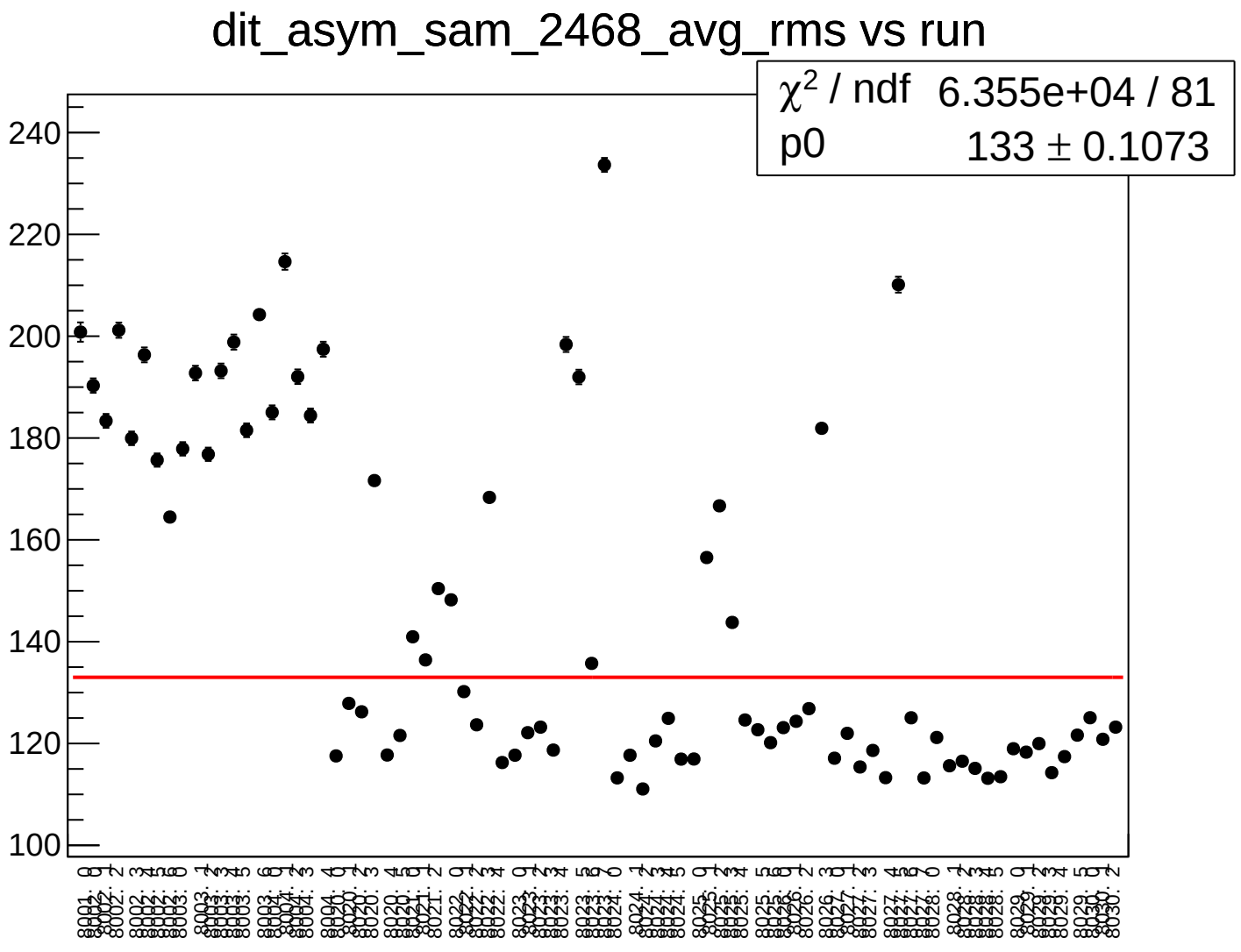

asym_sam_1357_avg_mean vs run
χ² / ndf 70.86 / 81
p0 −226 ± 794
20000
10000
0
−10000
−20000
−30000
pull
Entries 82
Mean −206
Std Dev 256.7
2
1
0
−1
−2

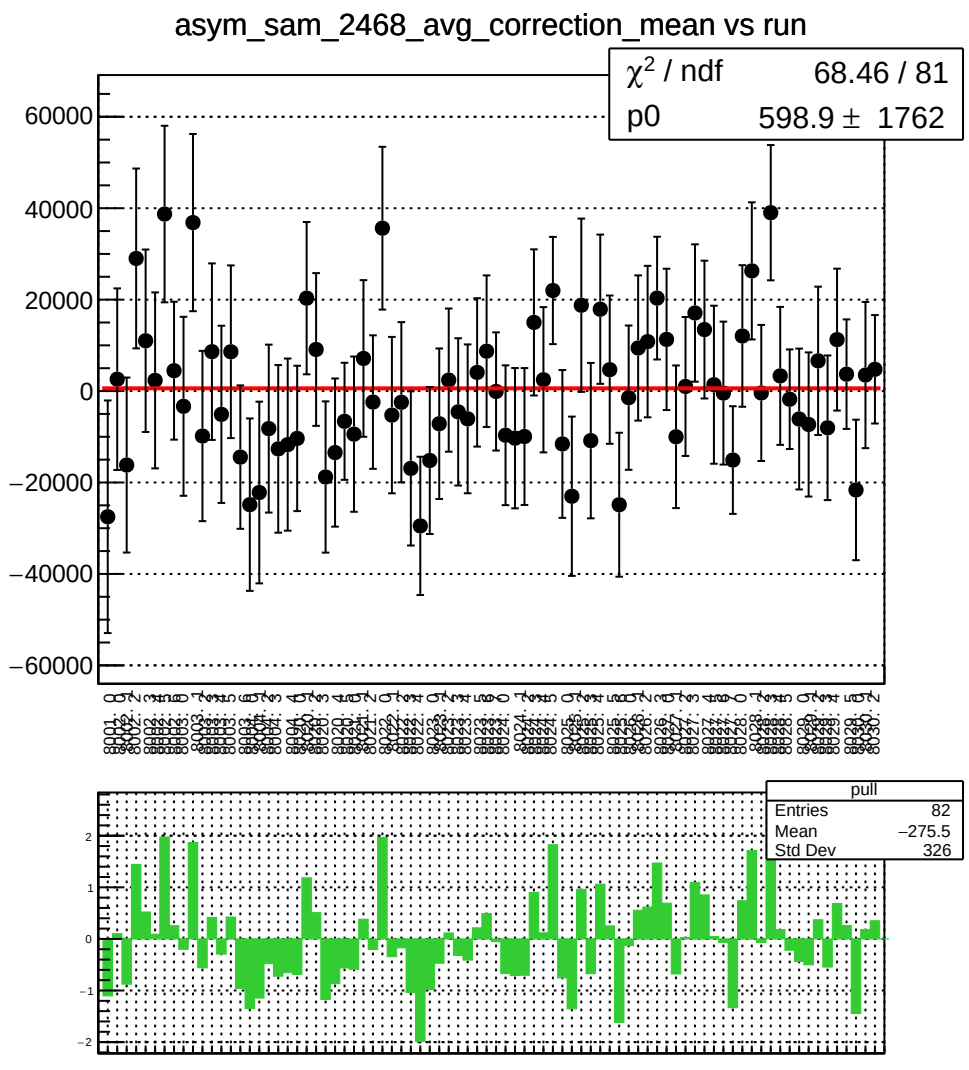

pull1D
Entries 82
Mean 0.007987
Std Dev 0.9296
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

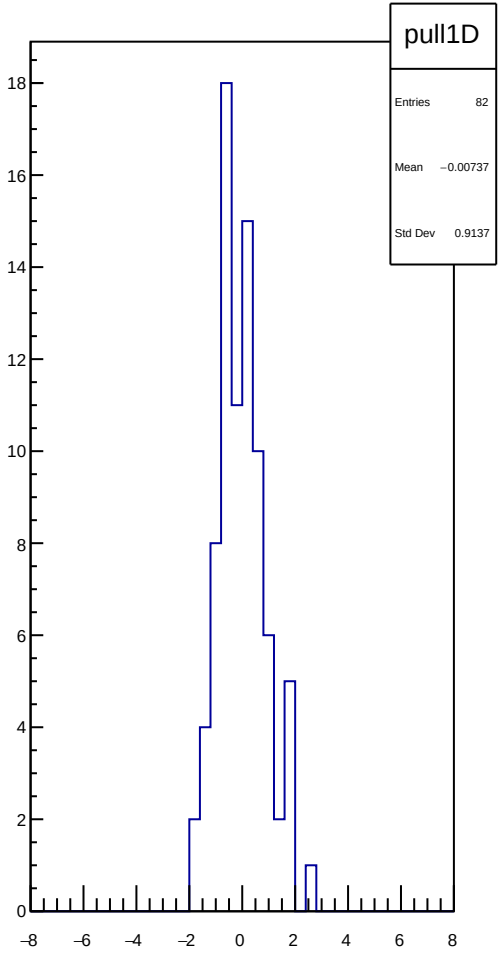

asym_sam_1357_avg_rms vs run
χ² / ndf 1.564e+04 / 81
p0 706.9 ± 0.5614
900
850
800
750
700
650
600

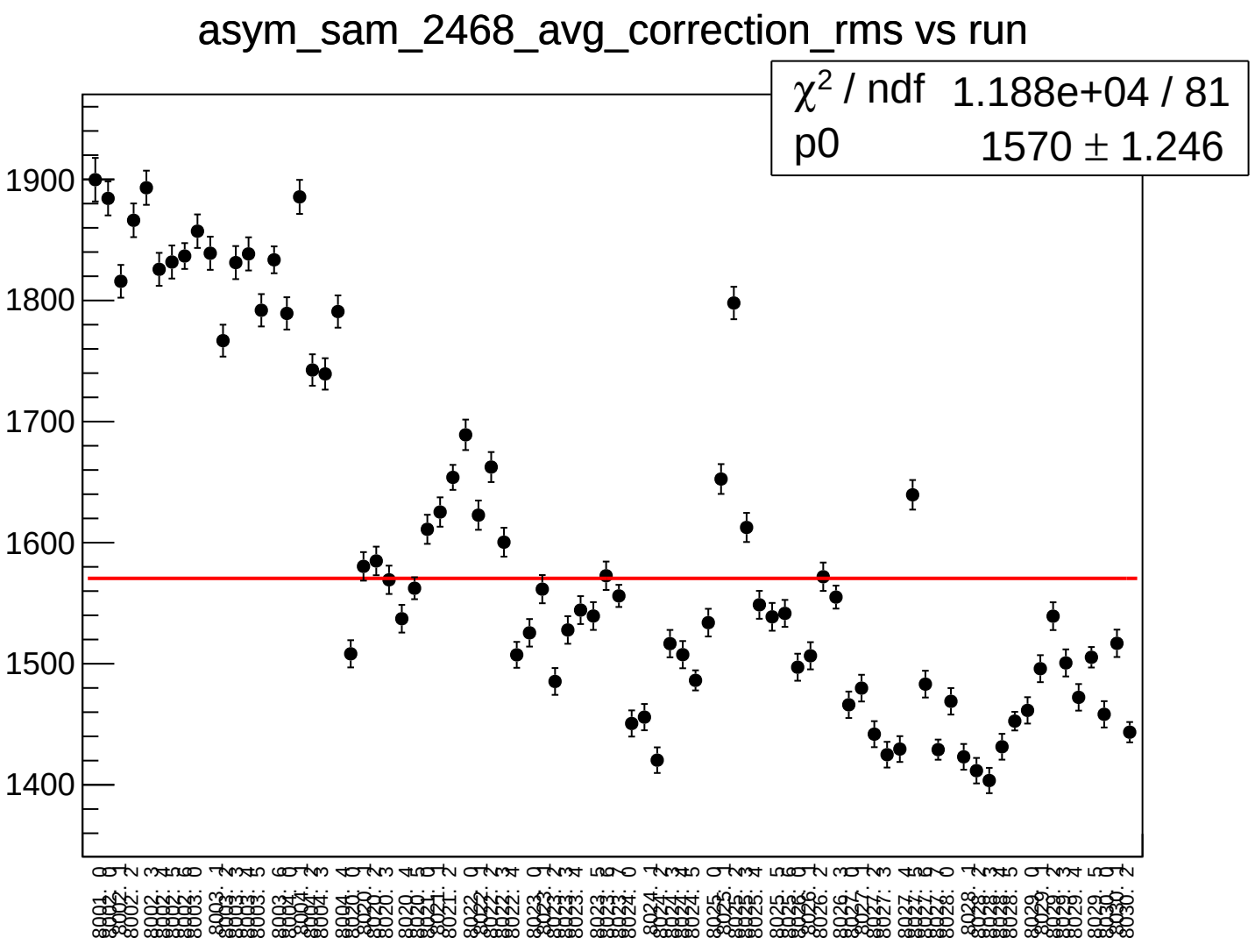

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 74.81 / 81
p0 117.5 ± 151.7
pull
Entries 82
Mean 717
Std Dev 668.7

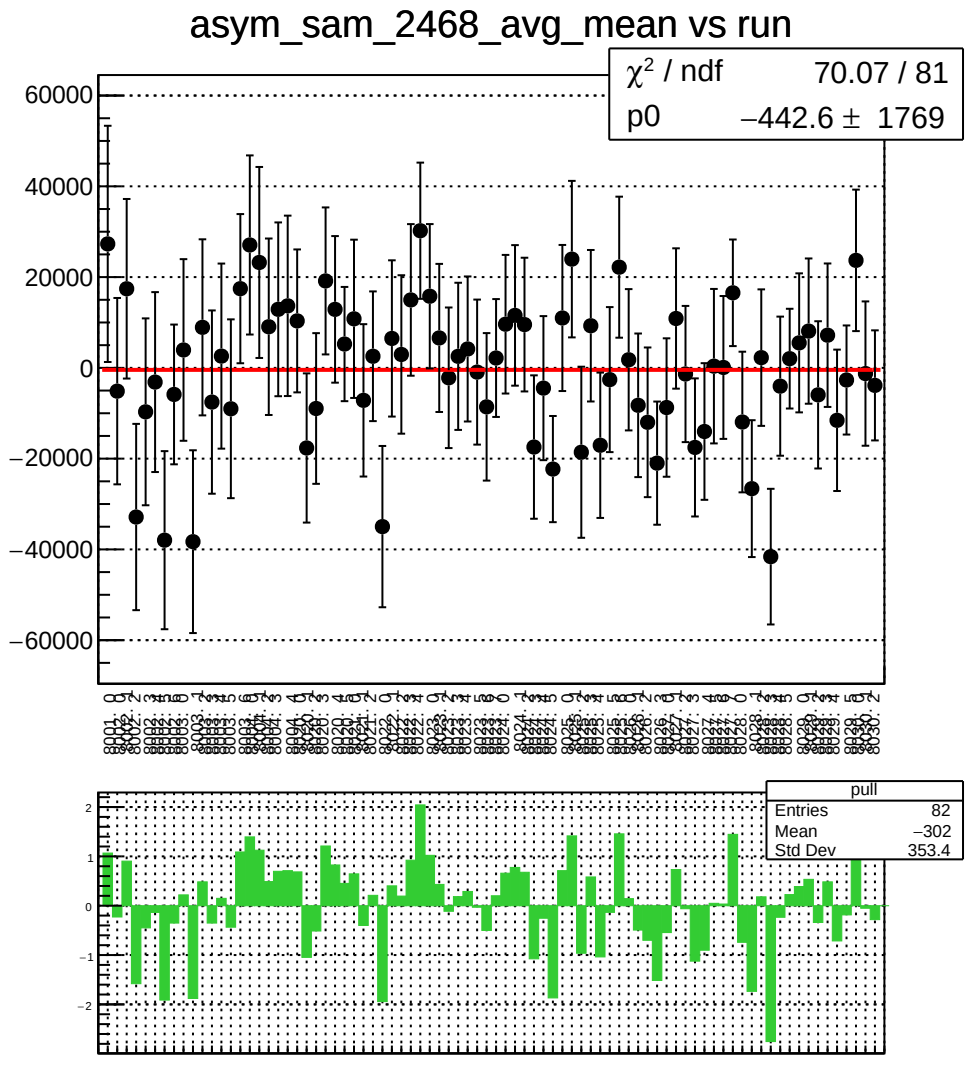

pull1D
Entries 82
Mean 0.003293
Std Dev 0.9552

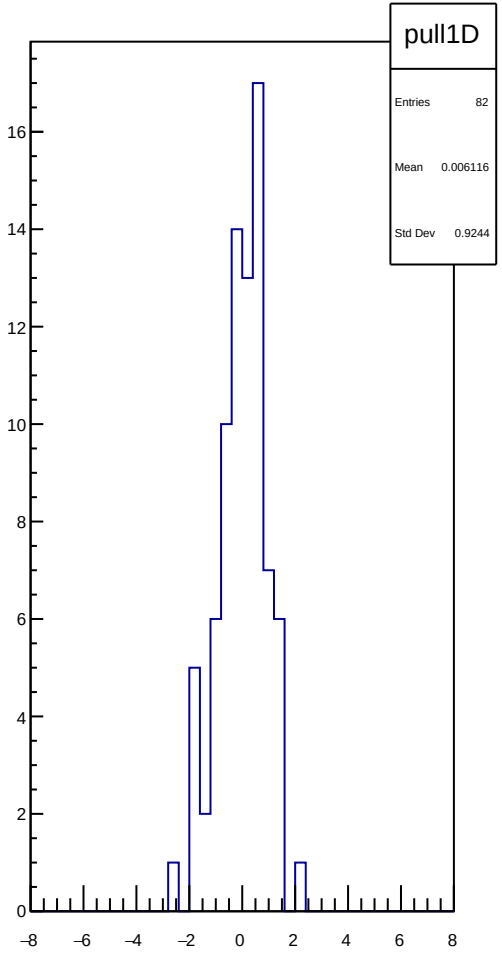

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 6.355e+04 / 81
p0 133 ± 0.1073
240
220
200
180
160
140
120
100

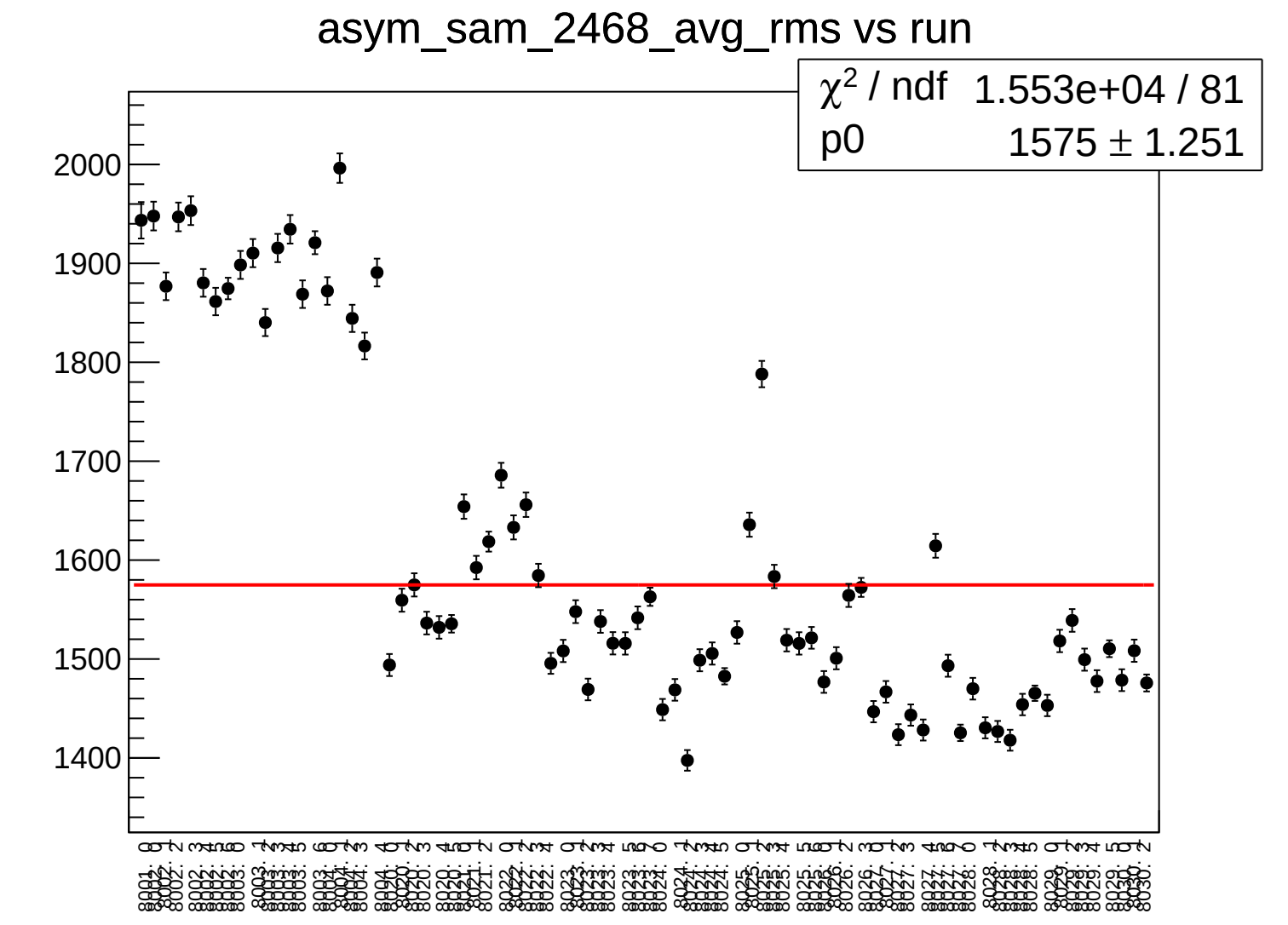

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 68.46 / 81
p0 598.9 ± 1762
pull
Entries 82
Mean −275.5
Std Dev 326

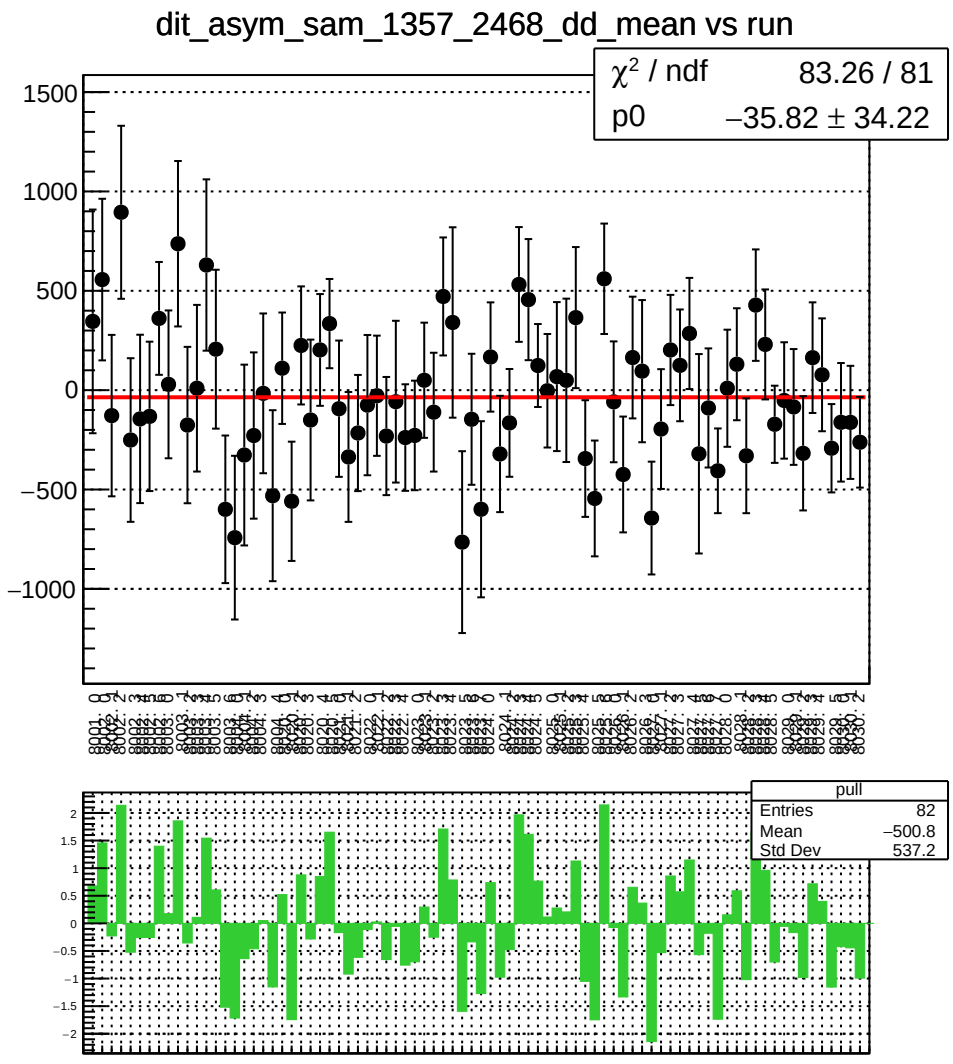

pull1D
Entries 82
Mean −0.00737
Std Dev 0.9137

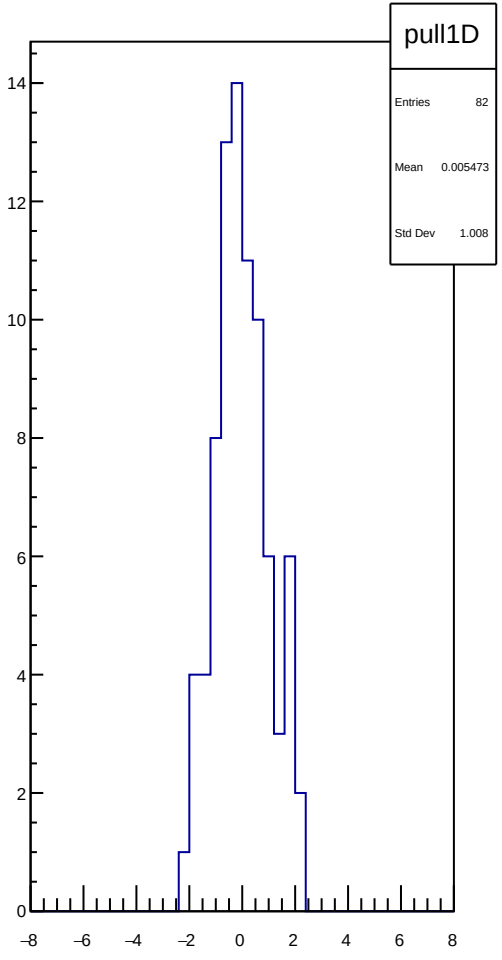

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 1.188e+04 / 81
p0 1570 ± 1.246
1900
1800
1700
1600
1500
1400

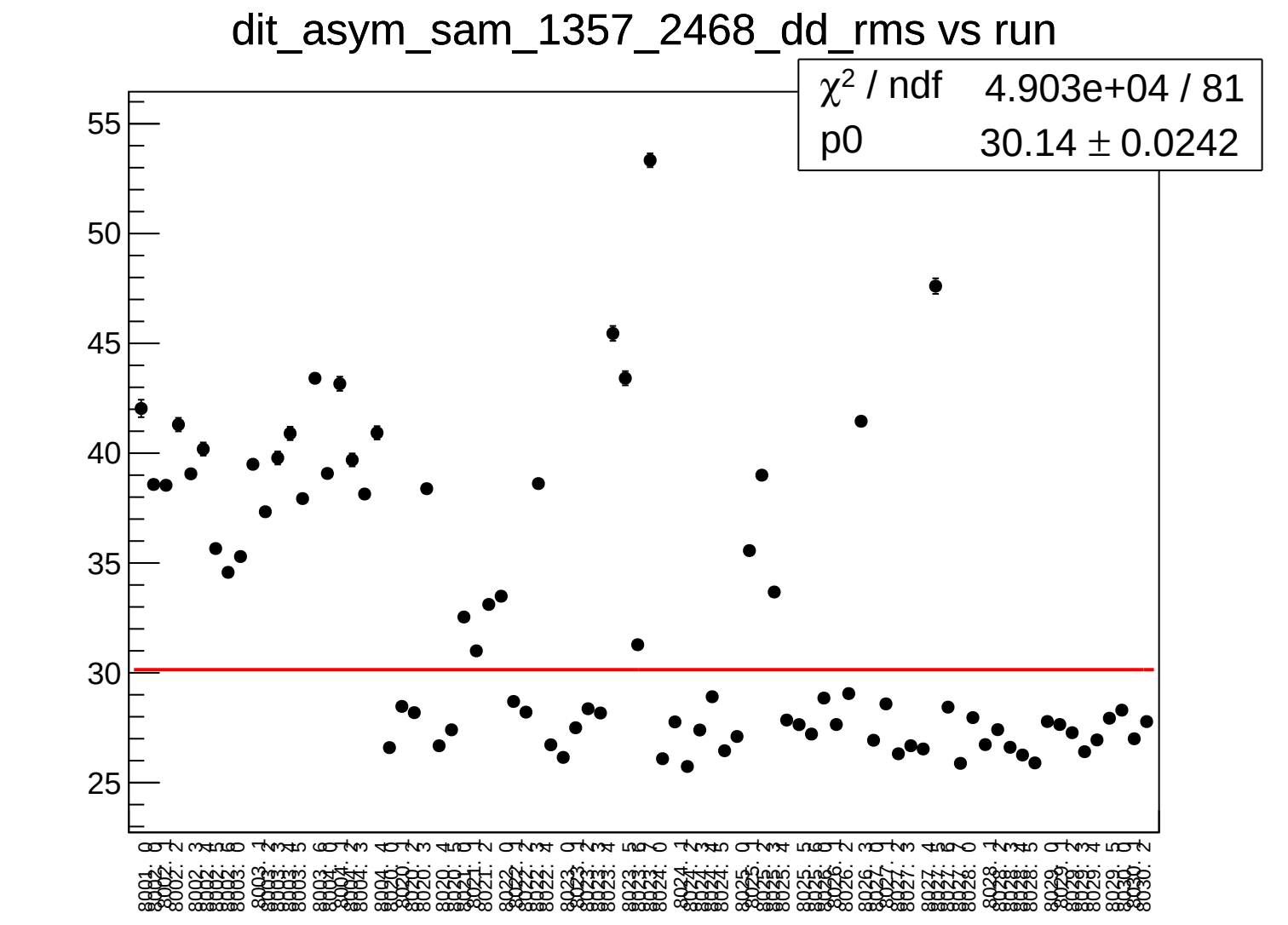

asym_sam_2468_avg_mean vs run
χ² / ndf 70.07 / 81
p0 −442.6 ± 1769
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 82
Mean −302
Std Dev 353.4
2
1
0
−1
−2

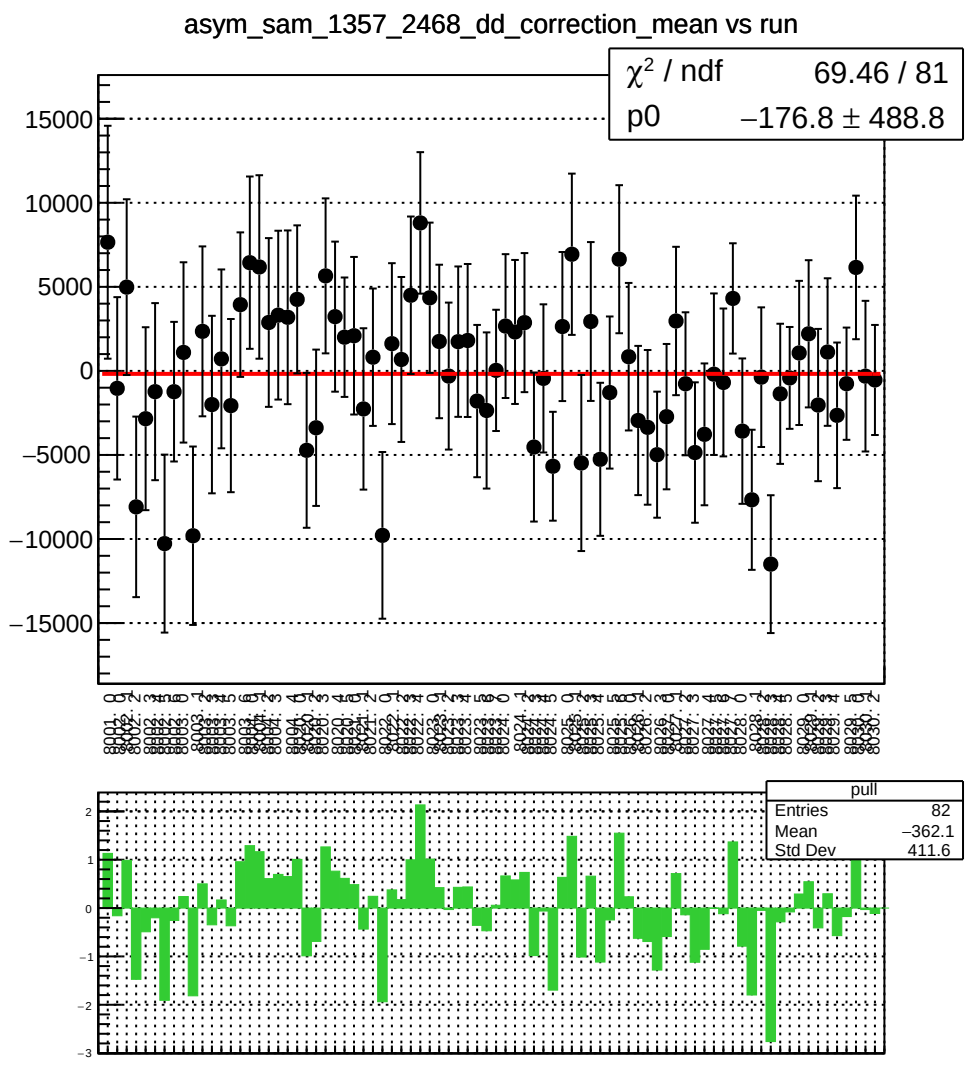

pull1D
Entries 82
Mean 0.006116
Std Dev 0.9244
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

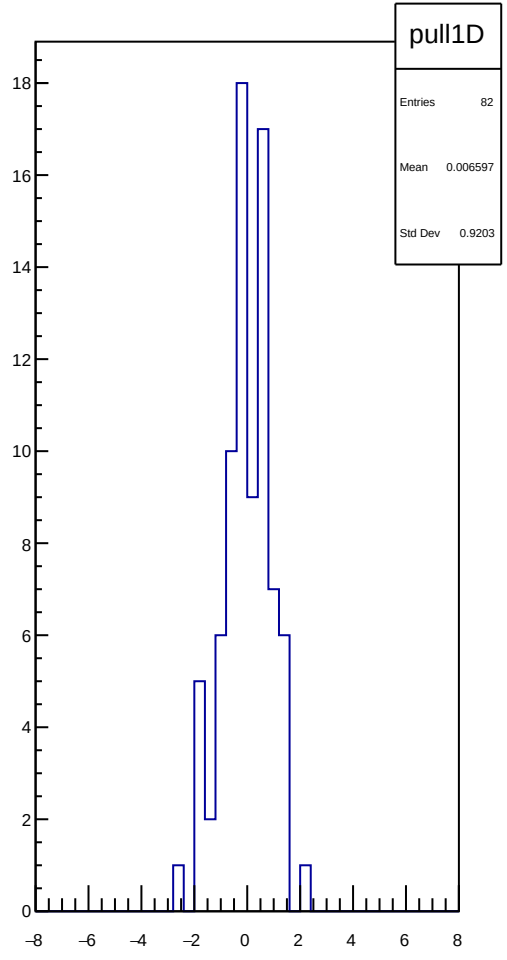

asym_sam_2468_avg_rms vs run
χ² / ndf 1.553e+04 / 81
p0 1575 ± 1.251
2000
1900
1800
1700
1600
1500
1400

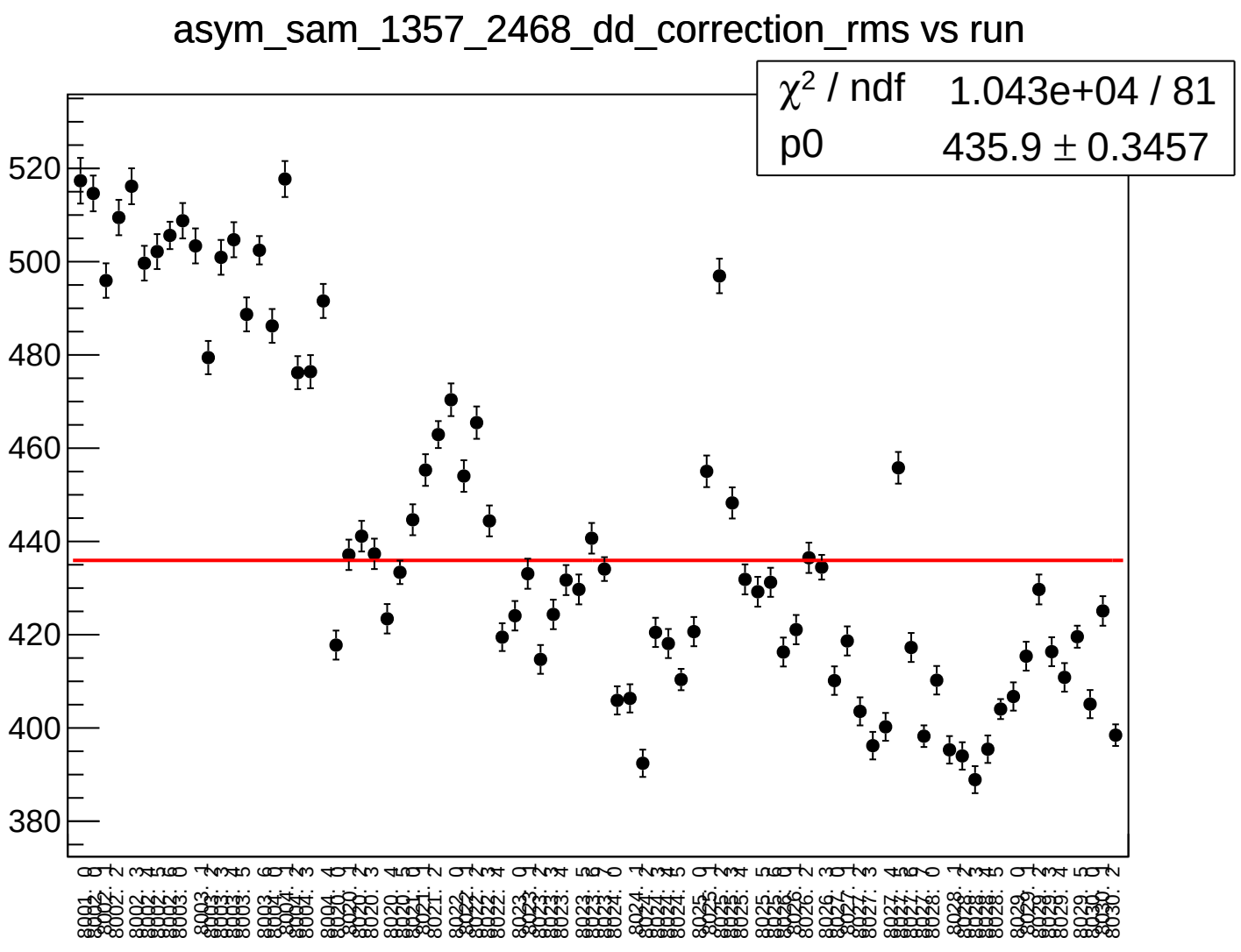

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 83.26 / 81
p0 −35.82 ± 34.22
pull
Entries 82
Mean −500.8
Std Dev 537.2

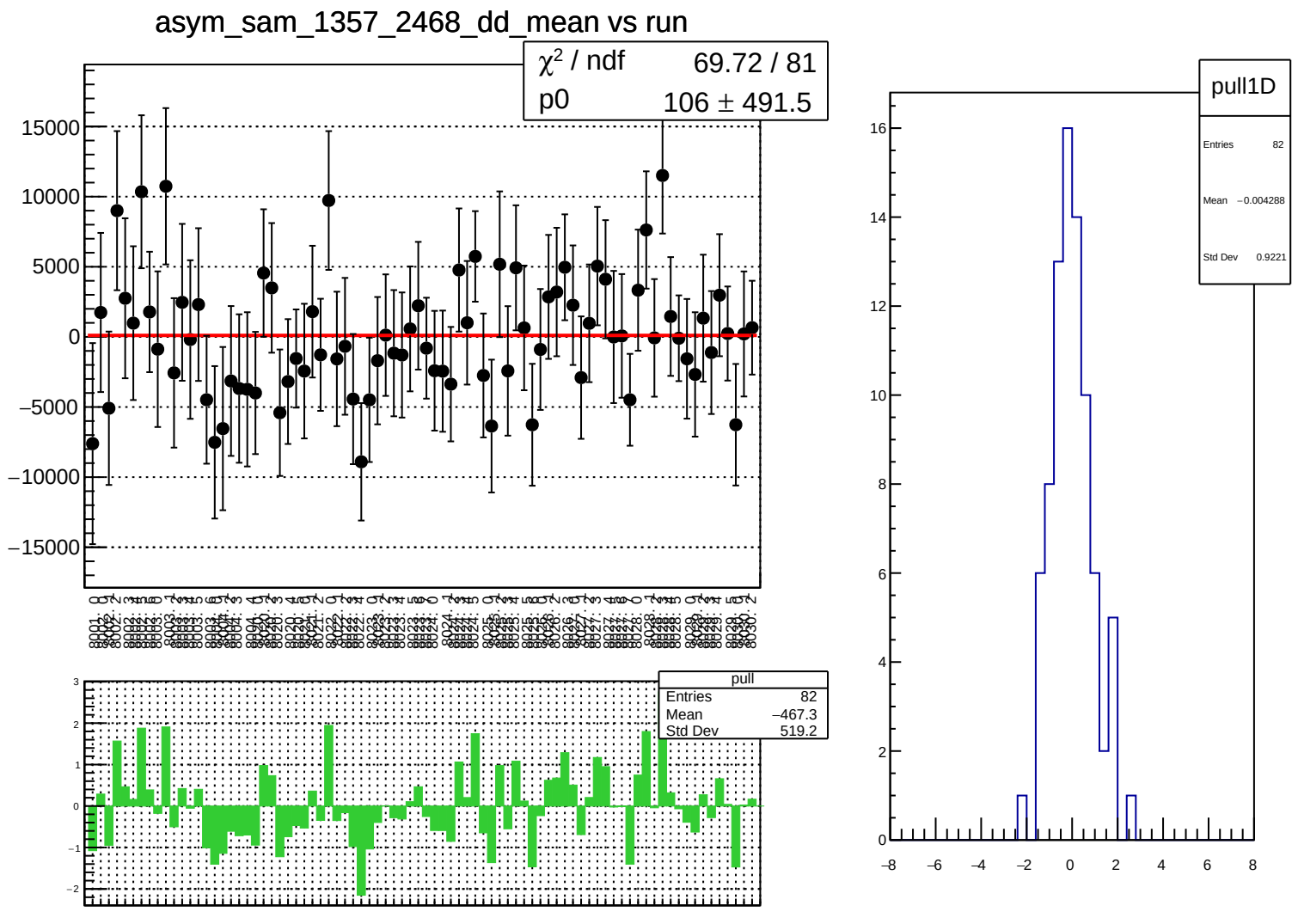

pull1D
Entries 82
Mean 0.005473
Std Dev 1.008

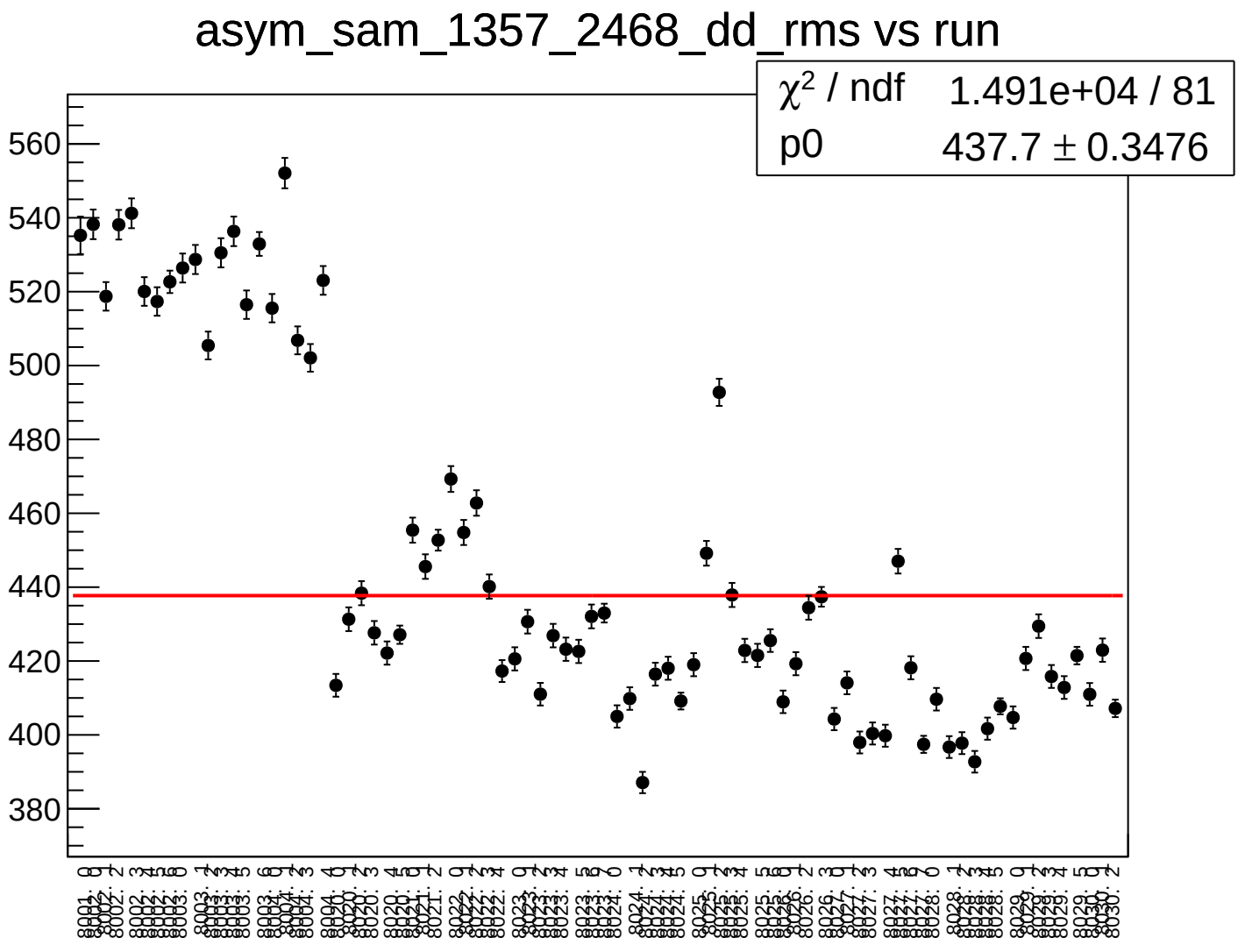

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4.903e+04 / 81
p0 30.14 ± 0.0242
55
50
45
40
35
30
25

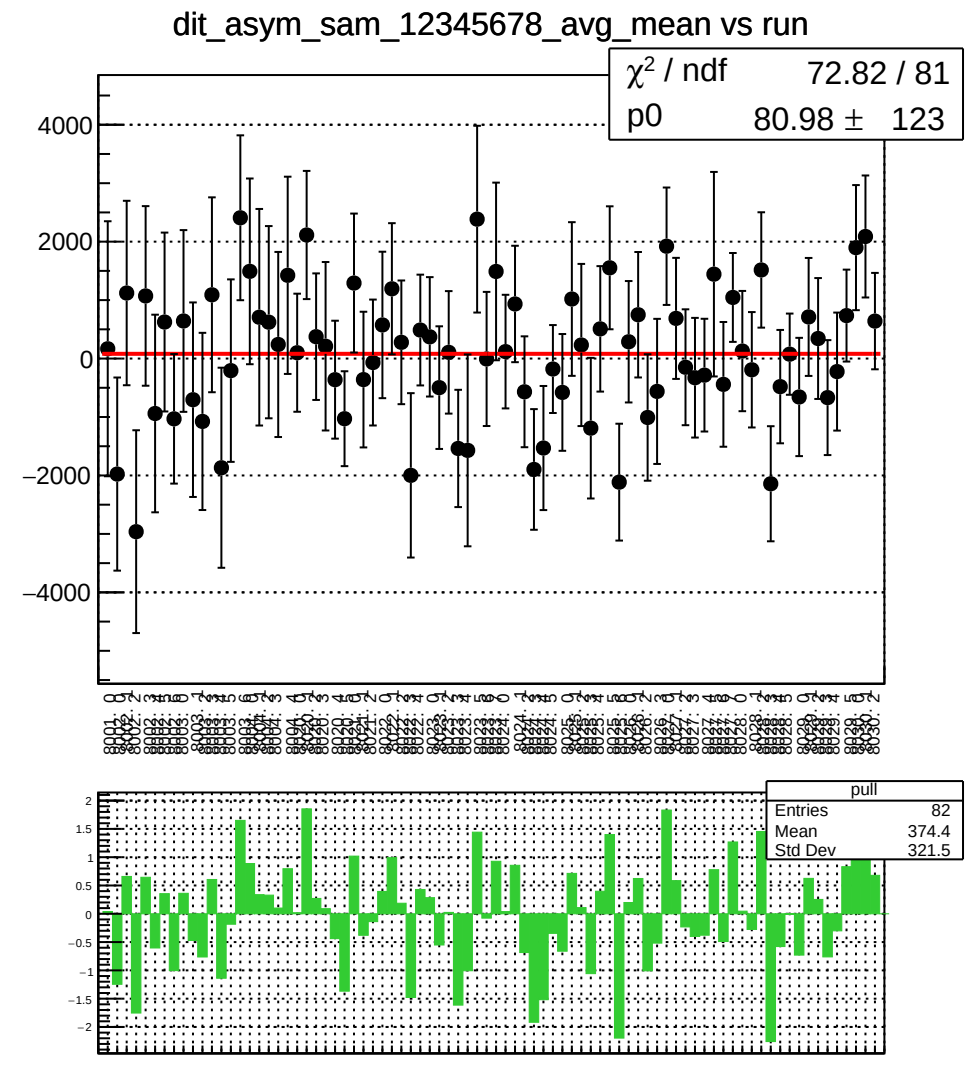

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 69.46 / 81
p0 −176.8 ± 488.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −362.1
Std Dev 411.6
2
1
0
−1
−2
−3

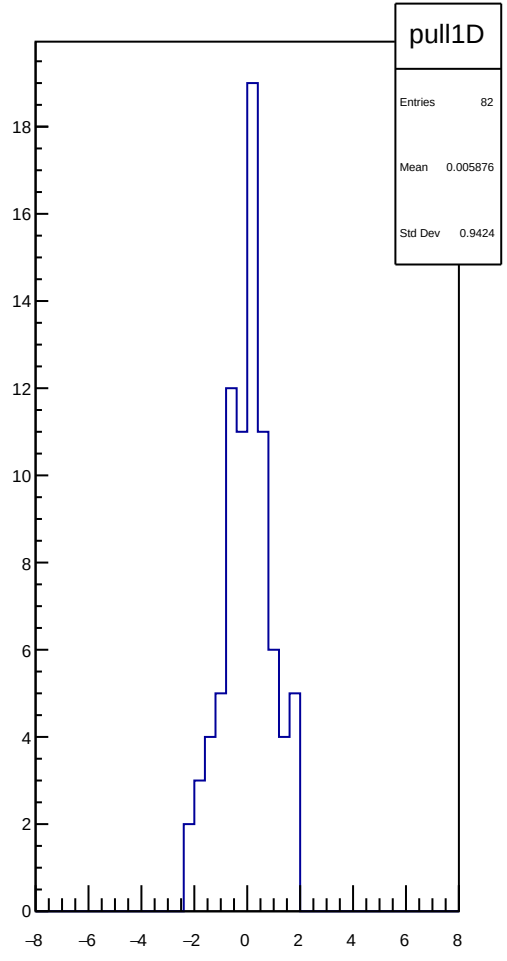

pull1D
Entries 82
Mean 0.006597
Std Dev 0.9203
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

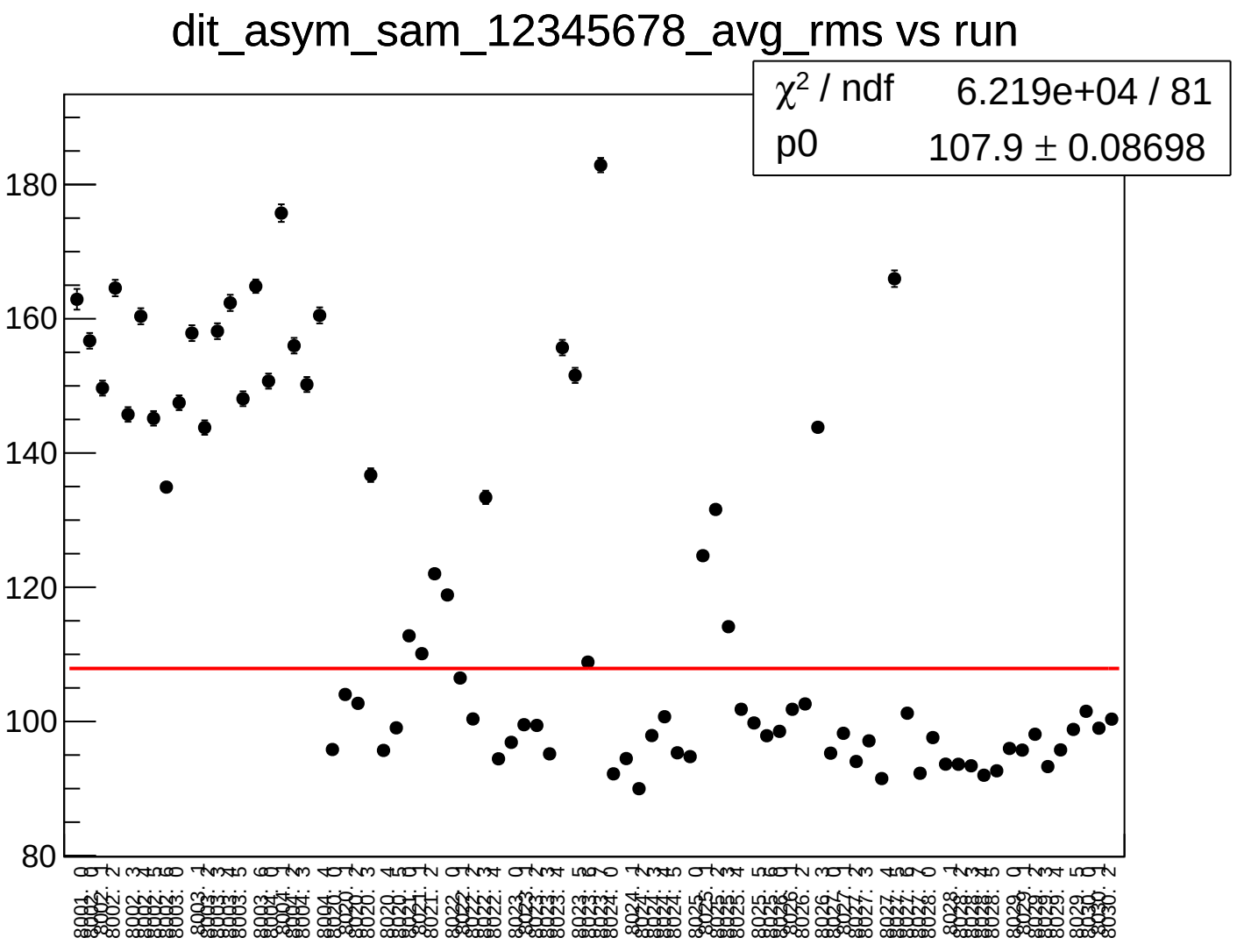

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1.043e+04 / 81
p0 435.9 ± 0.3457
520
500
480
460
440
420
400
380

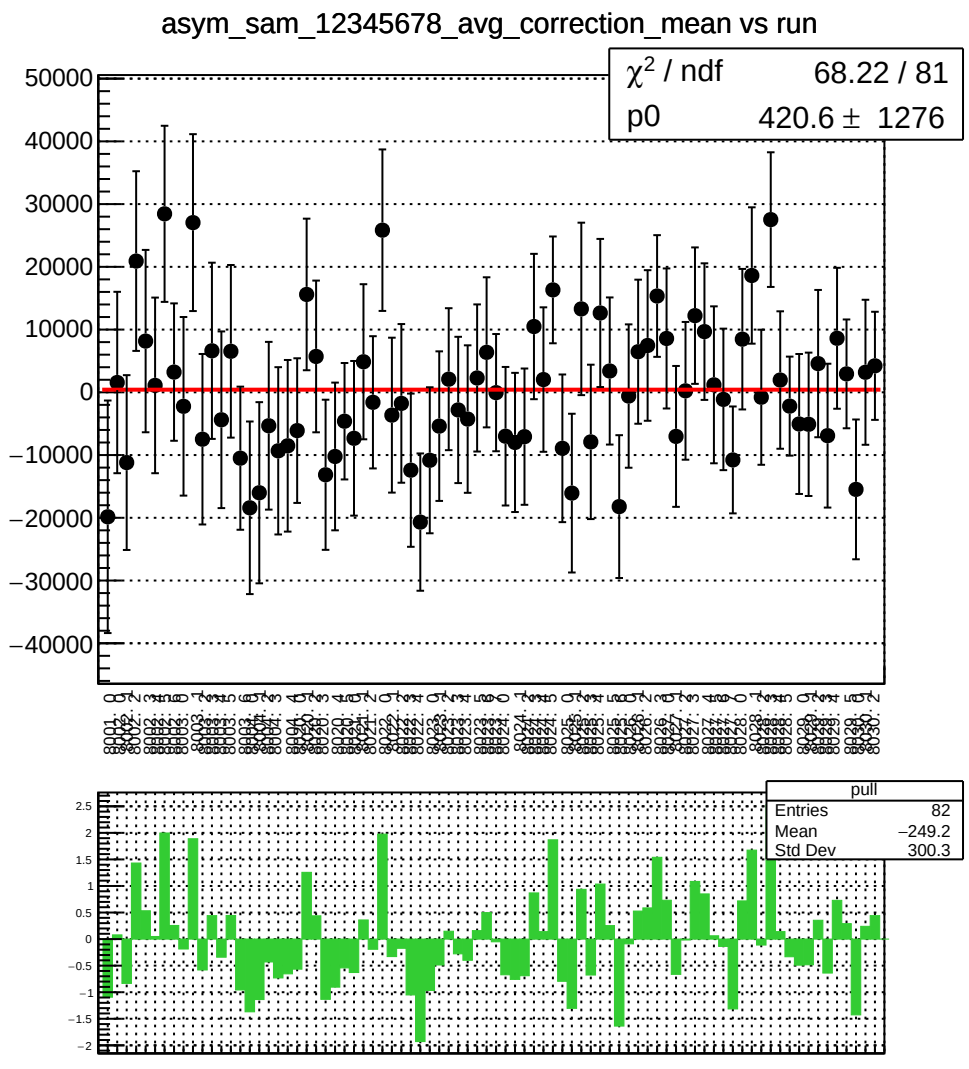

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 69.72 / 81
p0 106 ± 491.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 82
Mean −467.3
Std Dev 519.2
3
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.004288
Std Dev 0.9221
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

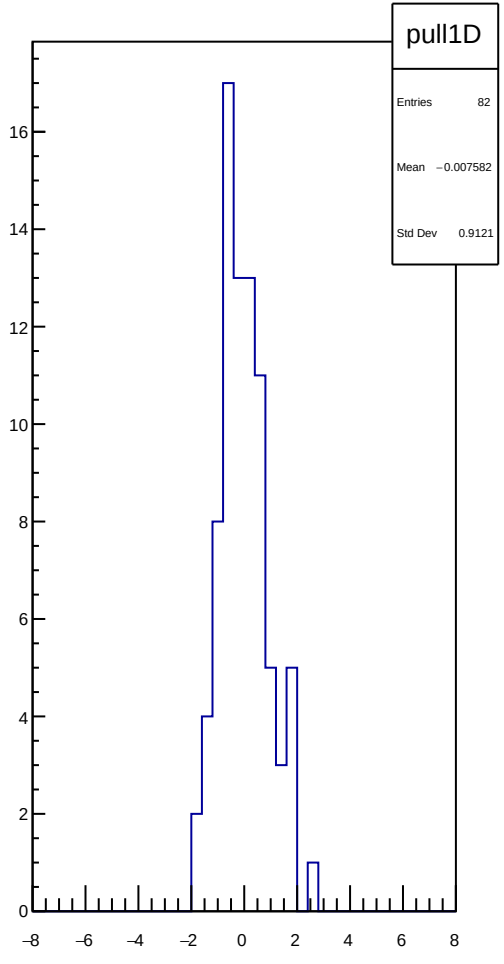

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.491e+04 / 81
p0 437.7 ± 0.3476
560
540
520
500
480
460
440
420
400
380

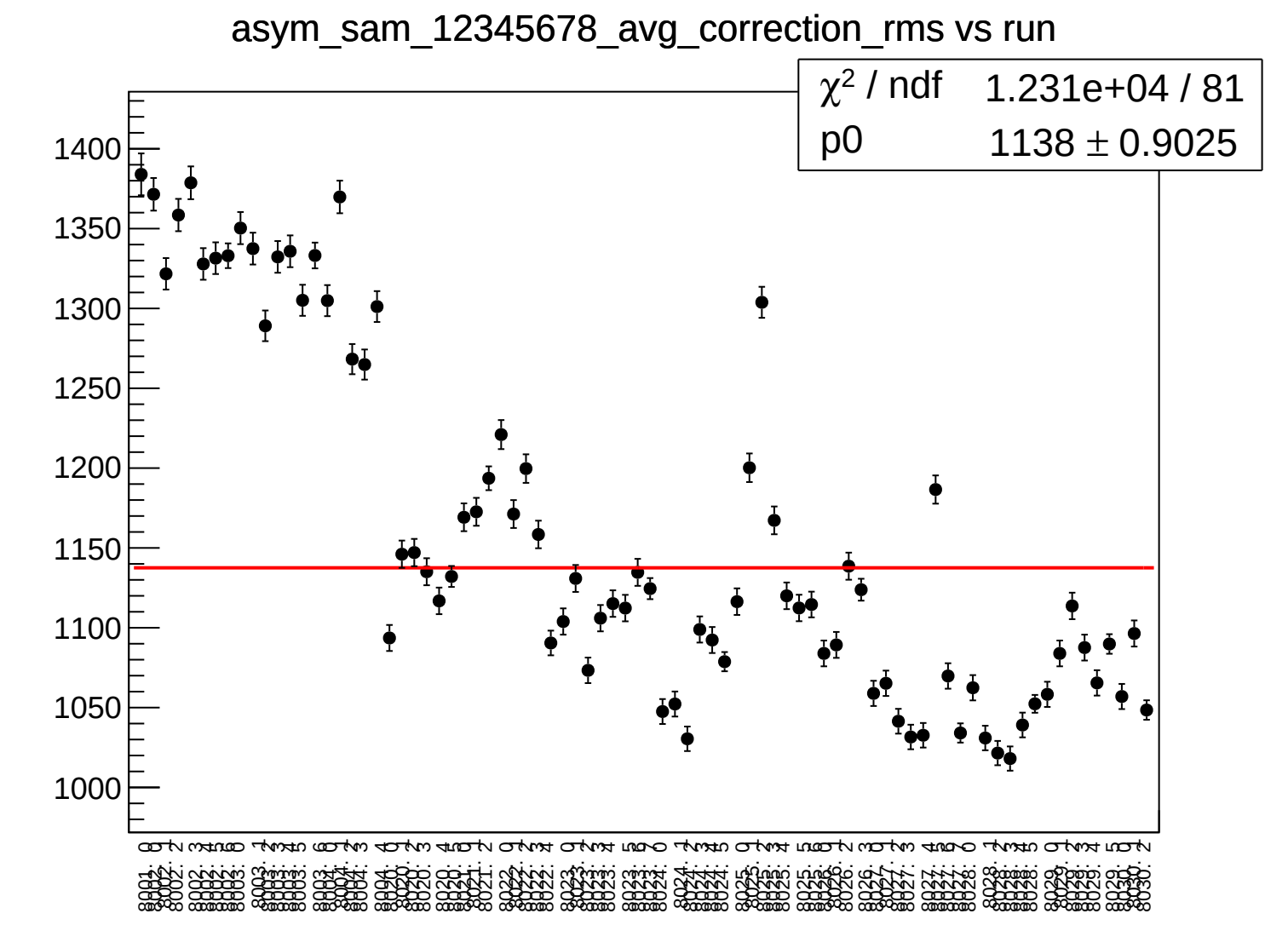

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 72.82 / 81
p0 80.98 ± 123
4000
2000
0
−2000
−4000
pull
Entries 82
Mean 374.4
Std Dev 321.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

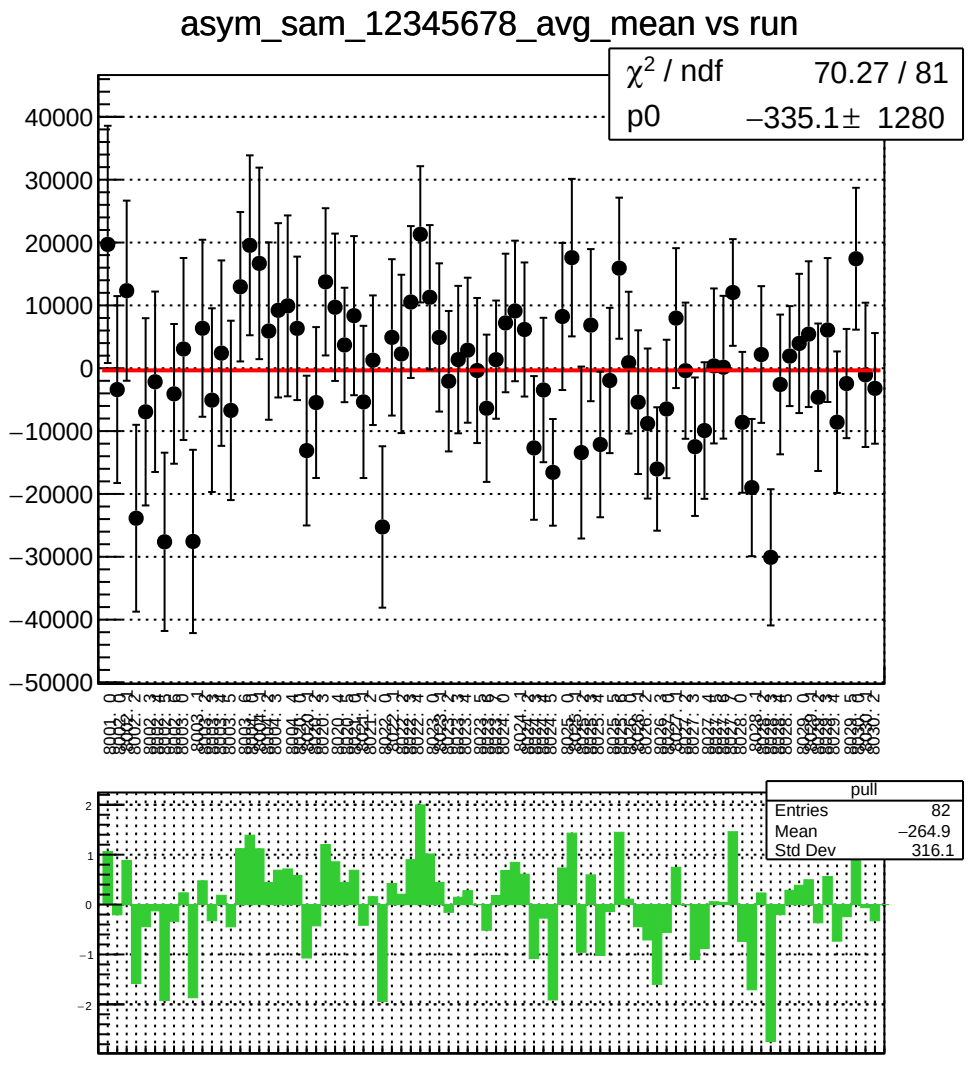

pull1D
Entries 82
Mean 0.005876
Std Dev 0.9424
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

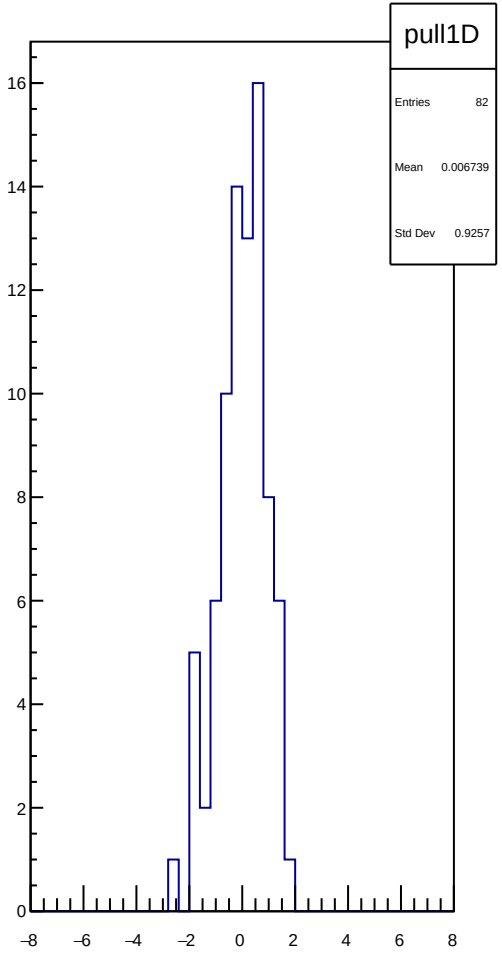

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 6.219e+04 / 81
p0 107.9 ± 0.08698
180
160
140
120
100
80

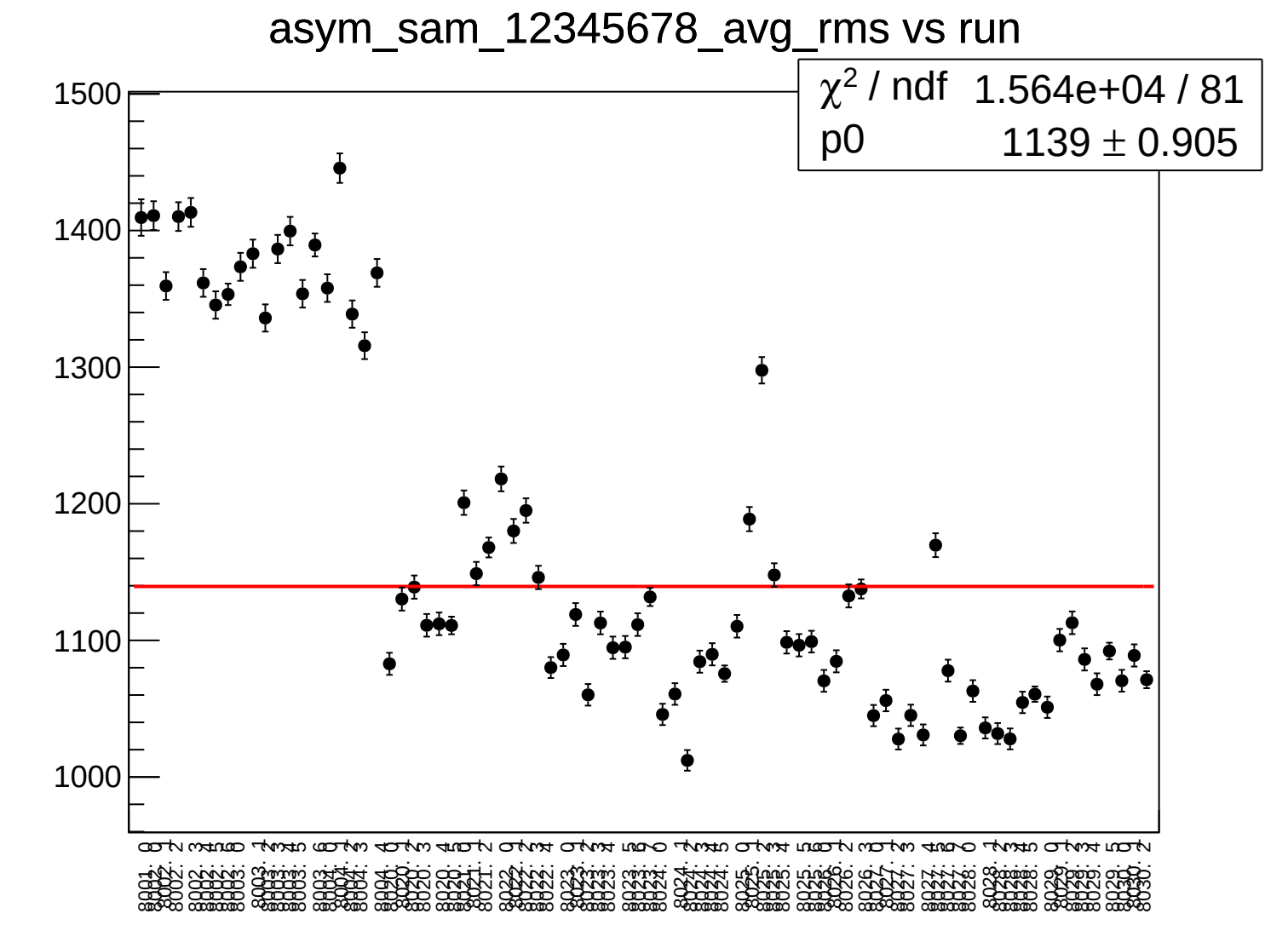

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 68.22 / 81
p0 420.6 ± 1276
pull
Entries 82
Mean −249.2
Std Dev 300.3

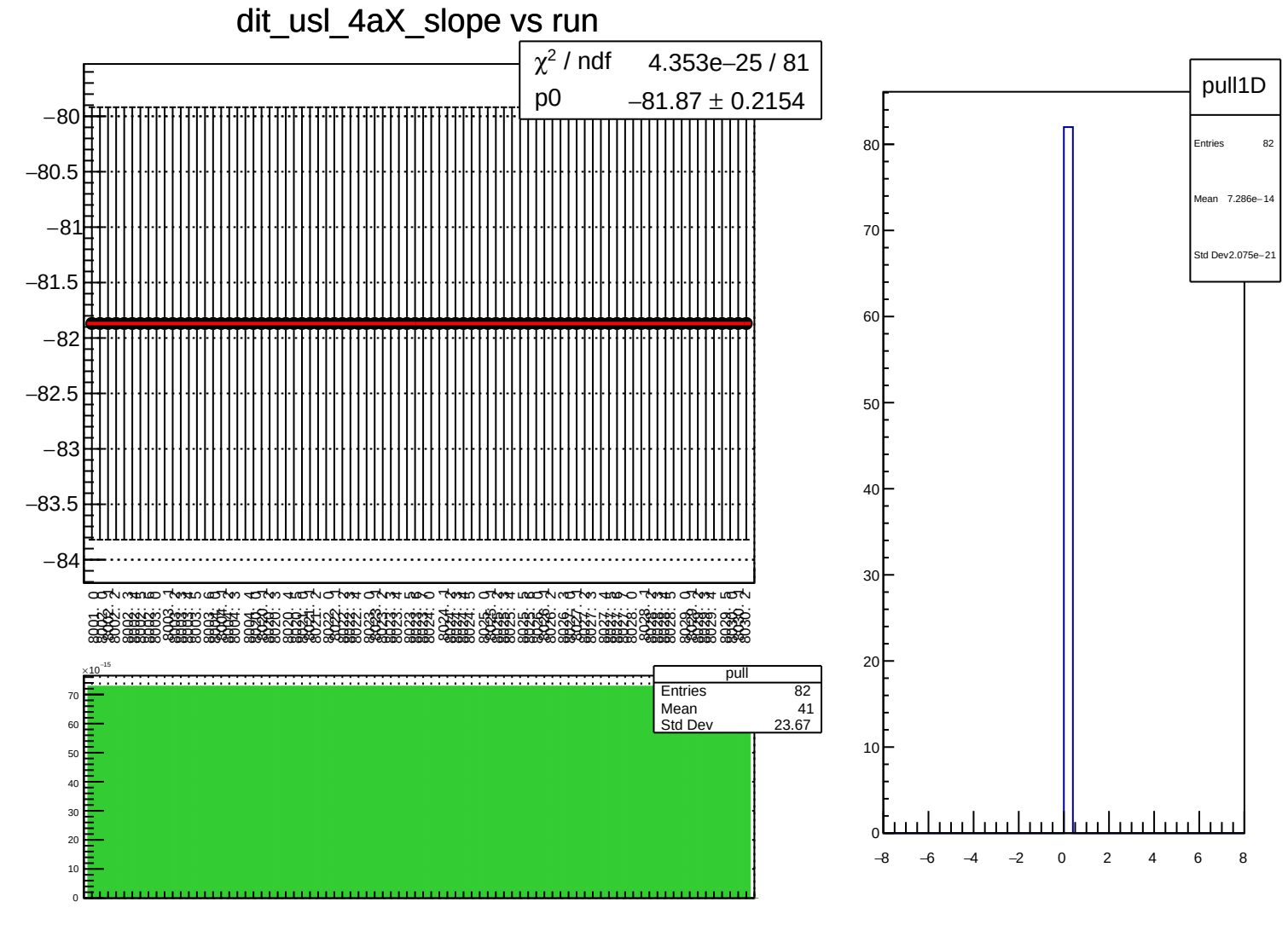

pull1D
Entries 82
Mean −0.007582
Std Dev 0.9121

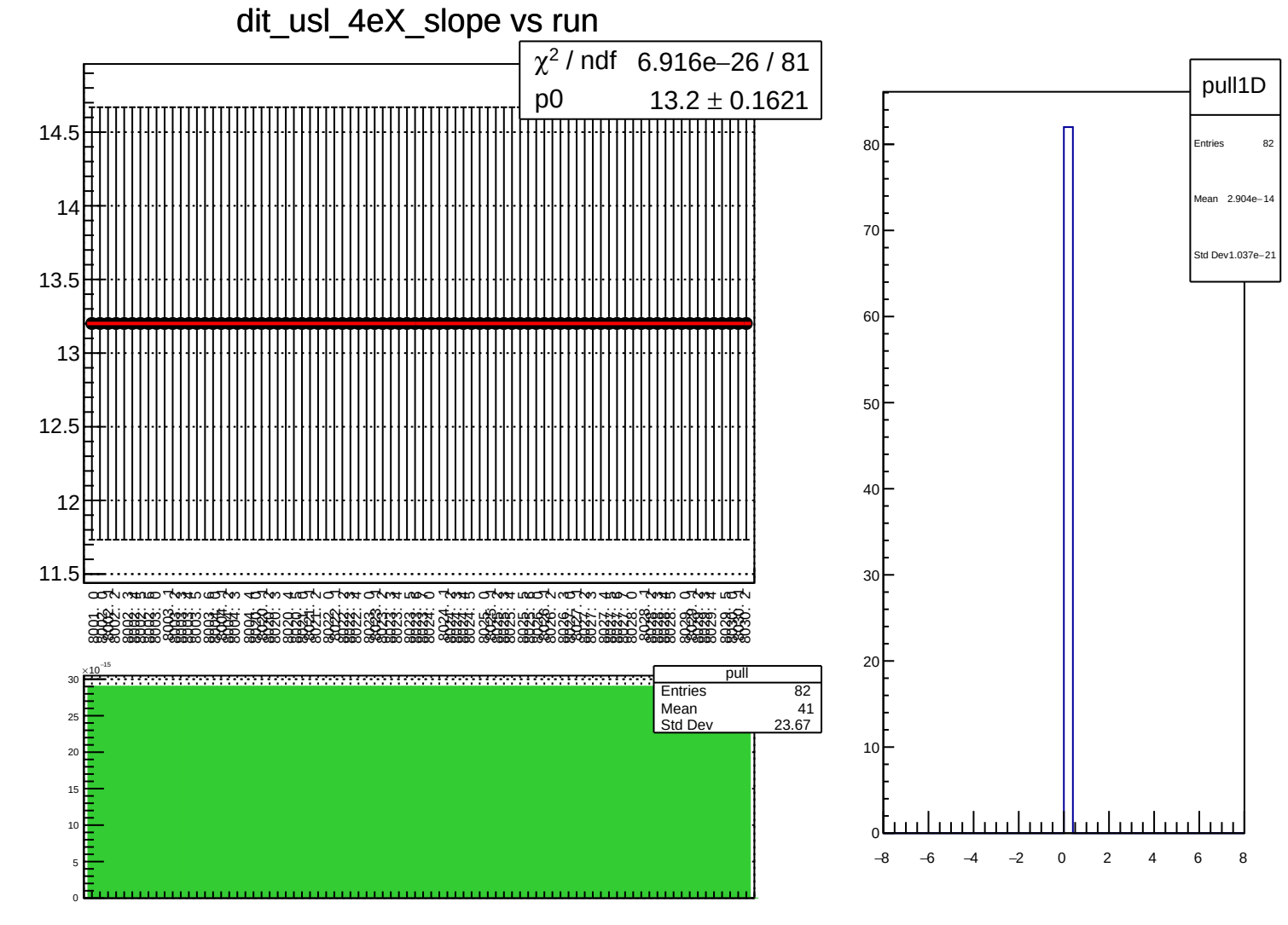

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 1.231e+04 / 81
p0 1138 ± 0.9025
1400
1350
1300
1250
1200
1150
1100
1050
1000

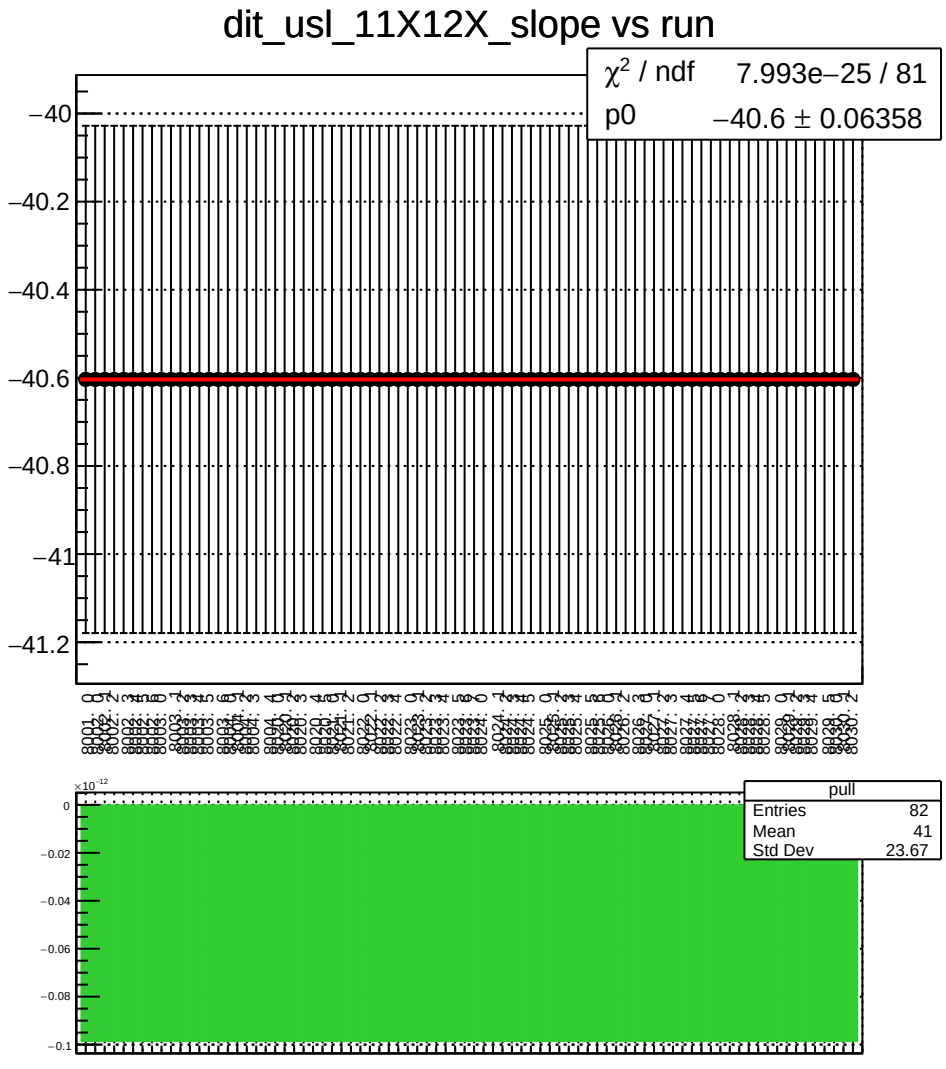

asym_sam_12345678_avg_mean vs run
χ² / ndf 70.27 / 81
p0 −335.1± 1280
pull
Entries 82
Mean −264.9
Std Dev 316.1

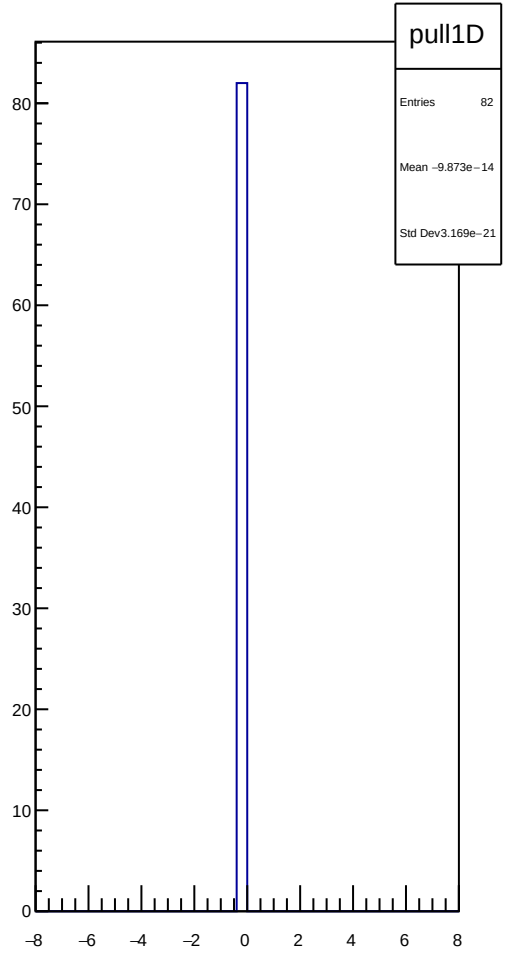

pull1D
Entries 82
Mean 0.006739
Std Dev 0.9257

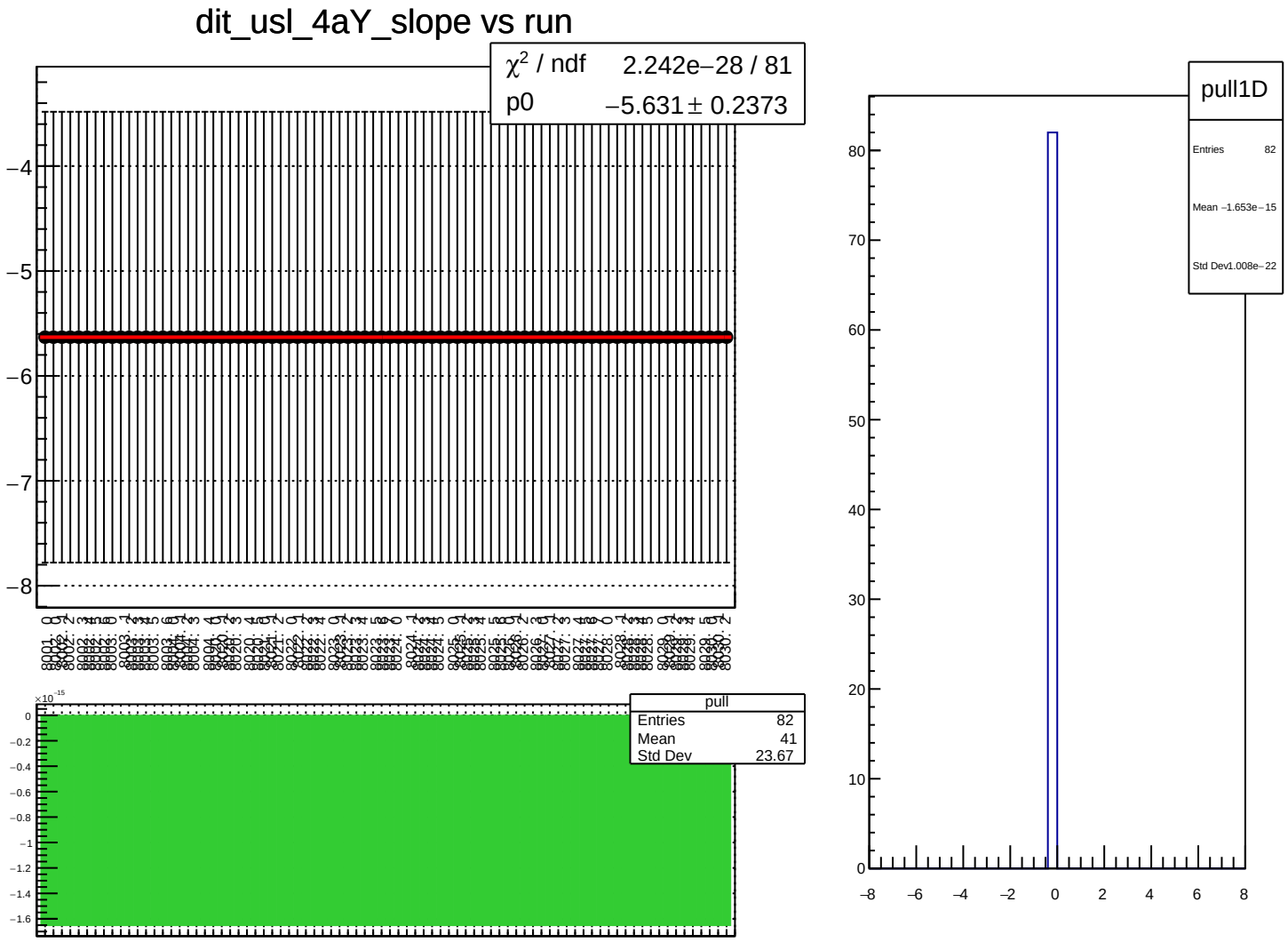

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.564e+04 / 81
p0 1139 ± 0.905
1500
1400
1300
1200
1100
1000

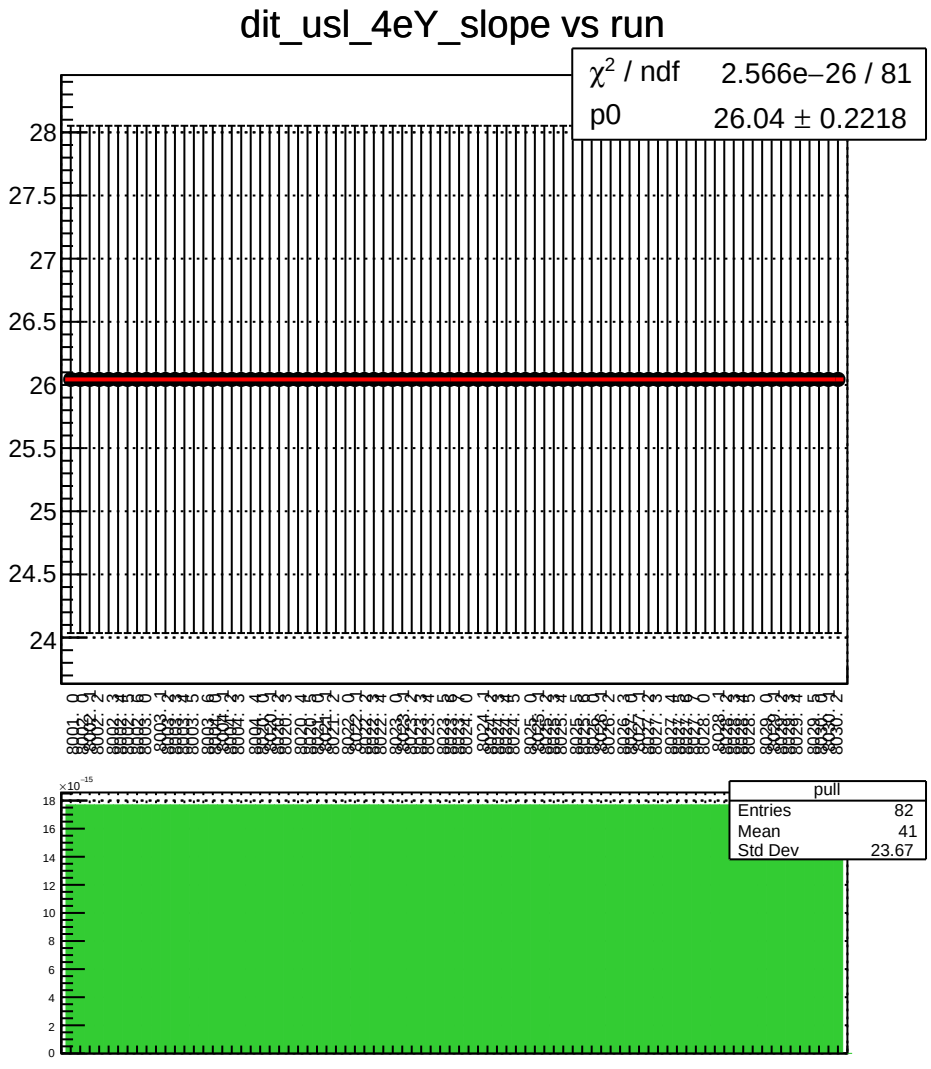

dit_usl_4aX_slope vs run
χ² / ndf 4.353e−25 / 81
p0 −81.87 ± 0.2154
−80
−80.5
−81
−81.5
−82
−82.5
−83
−83.5
−84
×10⁻¹⁵
pull
Entries 82
Mean 41
Std Dev 23.67
pull1D
Entries 82
Mean 7.286e−14
Std Dev2.075e−21

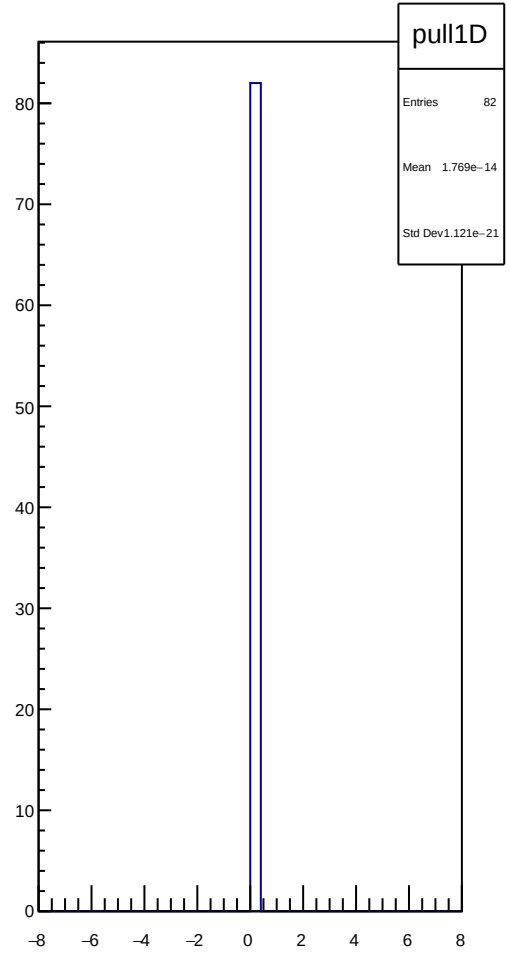

dit_usl_4eX_slope vs run
χ² / ndf 6.916e−26 / 81
p0 13.2 ± 0.1621
pull
Entries 82
Mean 41
Std Dev 23.67
pull1D
Entries 82
Mean 2.904e−14
Std Dev1.037e−21

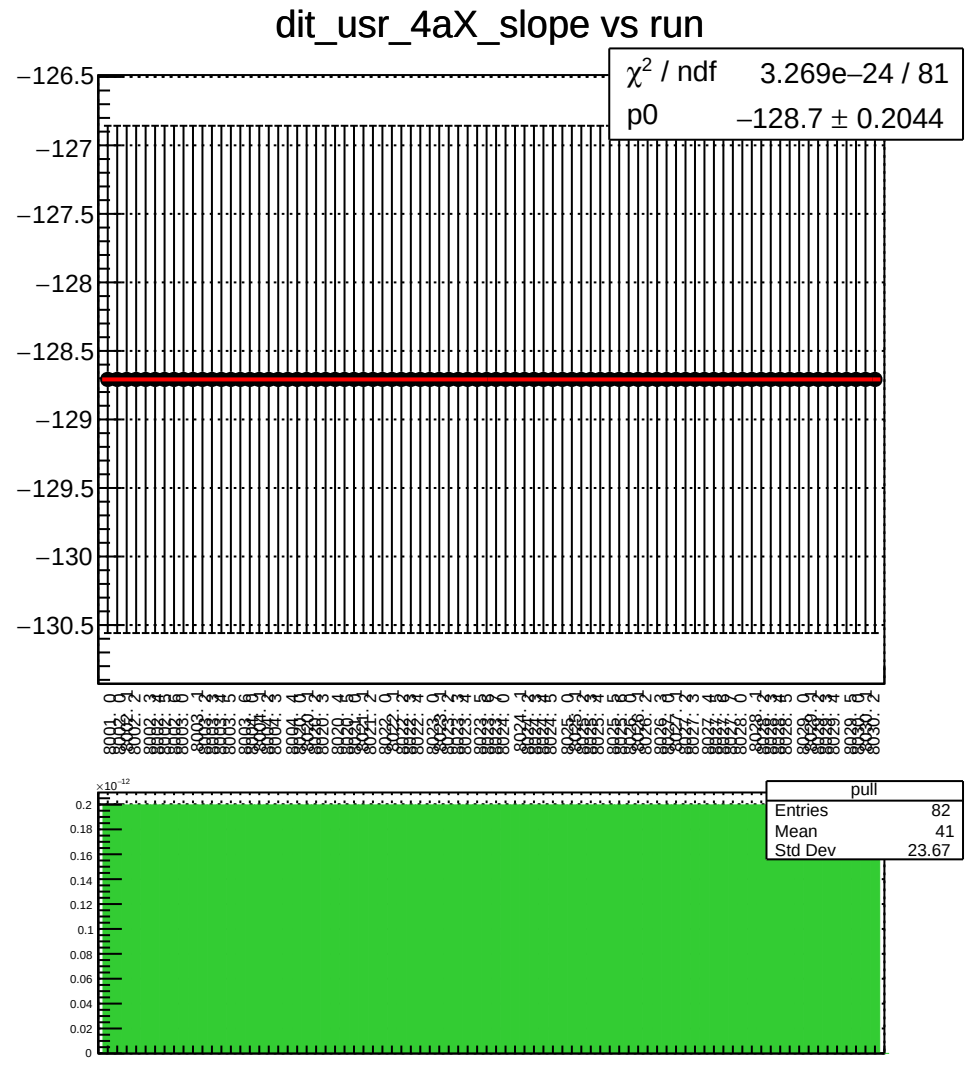

dit_usl_11X12X_slope vs run
χ² / ndf 7.993e−25 / 81
p0 −40.6 ± 0.06358
−40
−40.2
−40.4
−40.6
−40.8
−41
−41.2
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1

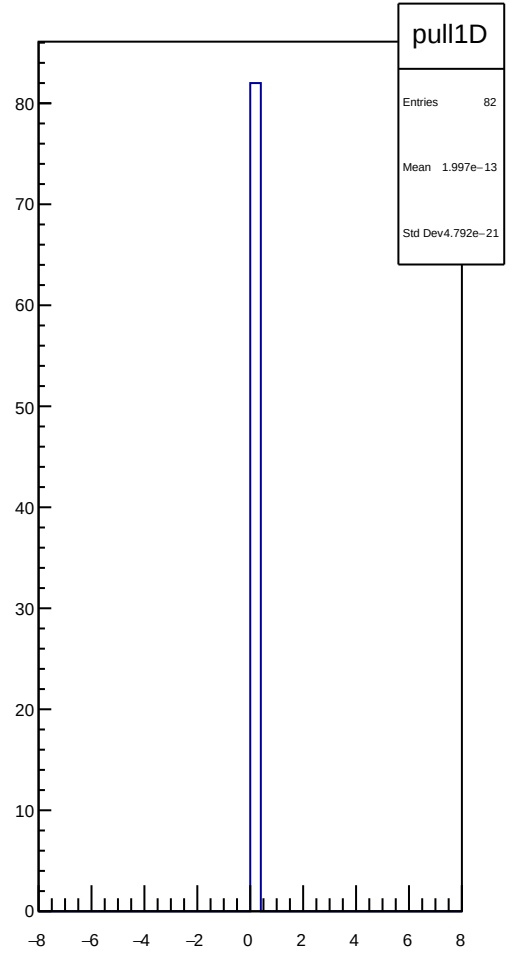

pull1D
Entries 82
Mean −9.873e−14
Std Dev3.169e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

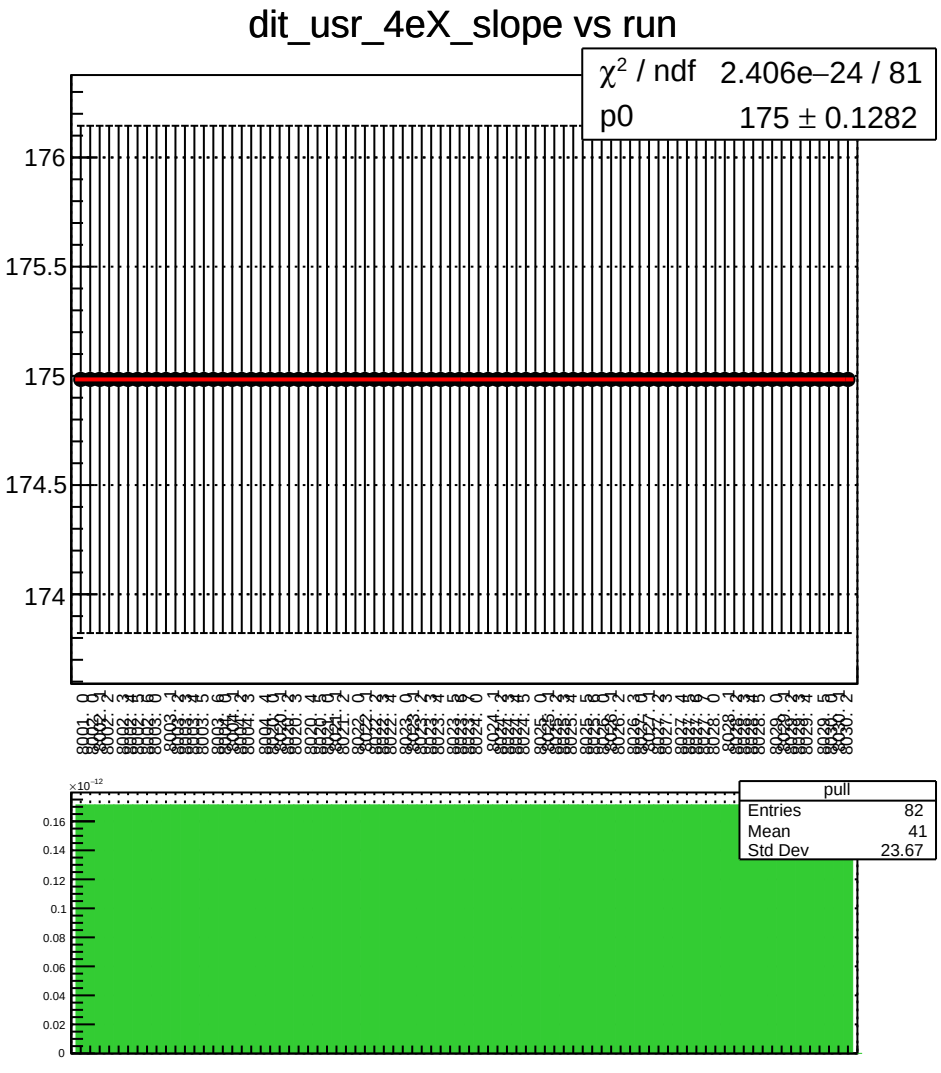

dit_usl_4aY_slope vs run
χ² / ndf 2.242e−28 / 81
p0 −5.631 ± 0.2373
pull
Entries 82
Mean 41
Std Dev 23.67
pull1D
Entries 82
Mean −1.653e−15
Std Dev1.008e−22

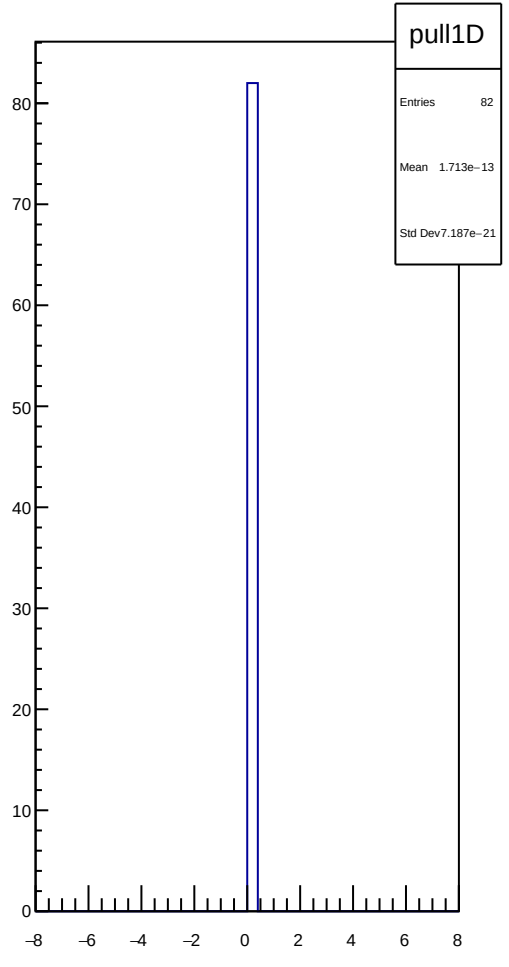

dit_usl_4eY_slope vs run
χ² / ndf 2.566e−26 / 81
p0 26.04 ± 0.2218
pull
Entries 82
Mean 41
Std Dev 23.67

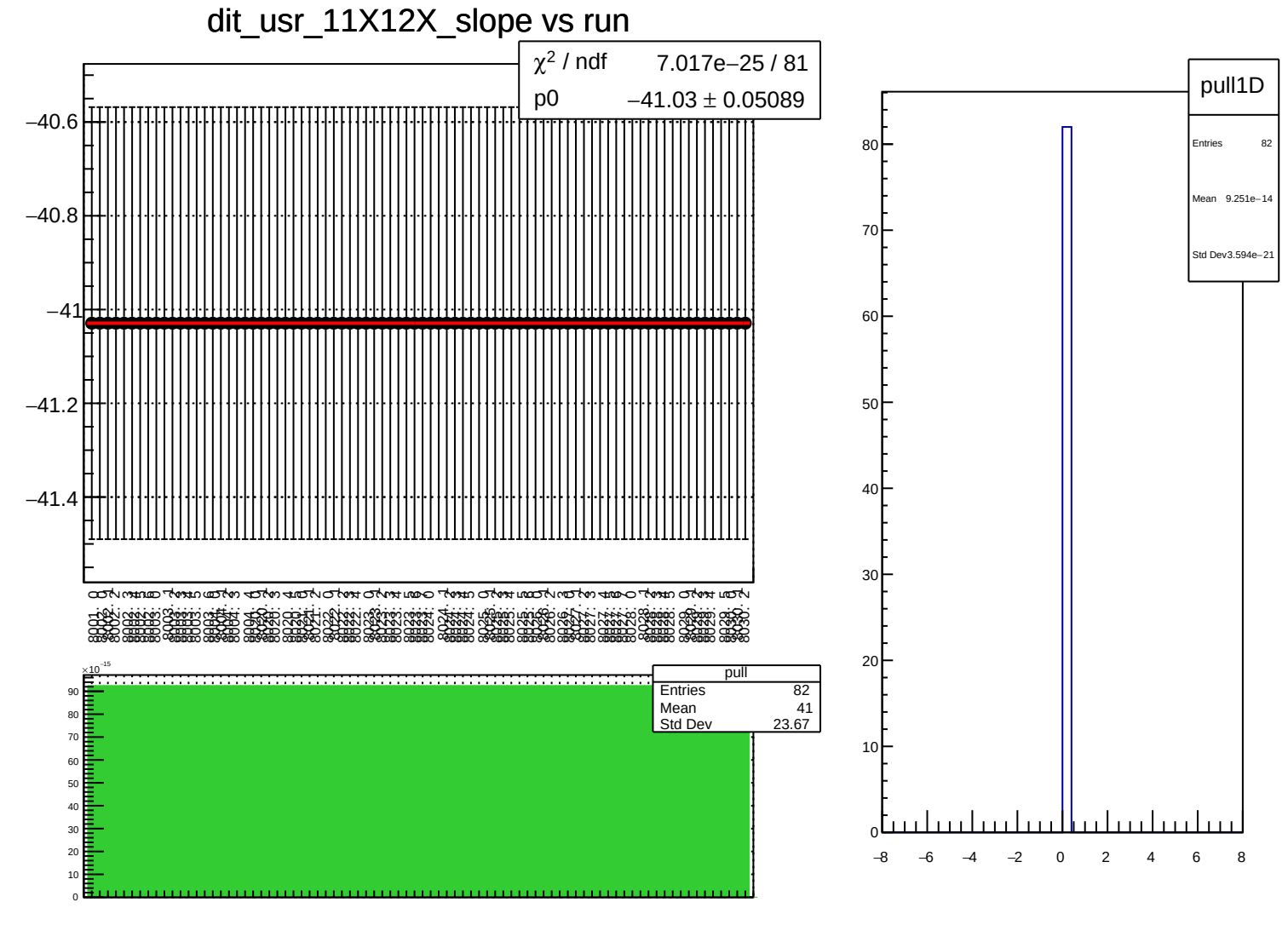

pull1D
Entries 82
Mean 1.769e−14
Std Dev1.121e−21

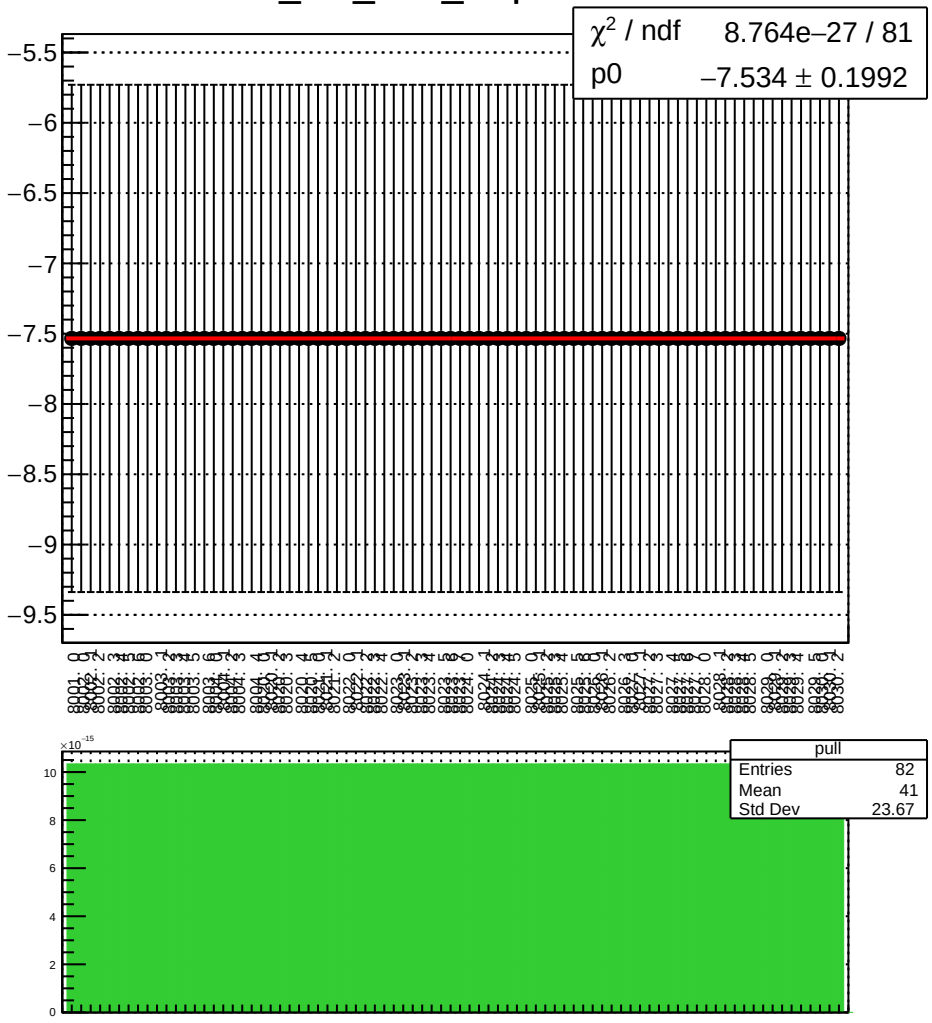

dit_usr_4aX_slope vs run
χ² / ndf 3.269e−24 / 81
p0 −128.7 ± 0.2044
−126.5
−127
−127.5
−128
−128.5
−129
−129.5
−130
−130.5
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹²
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

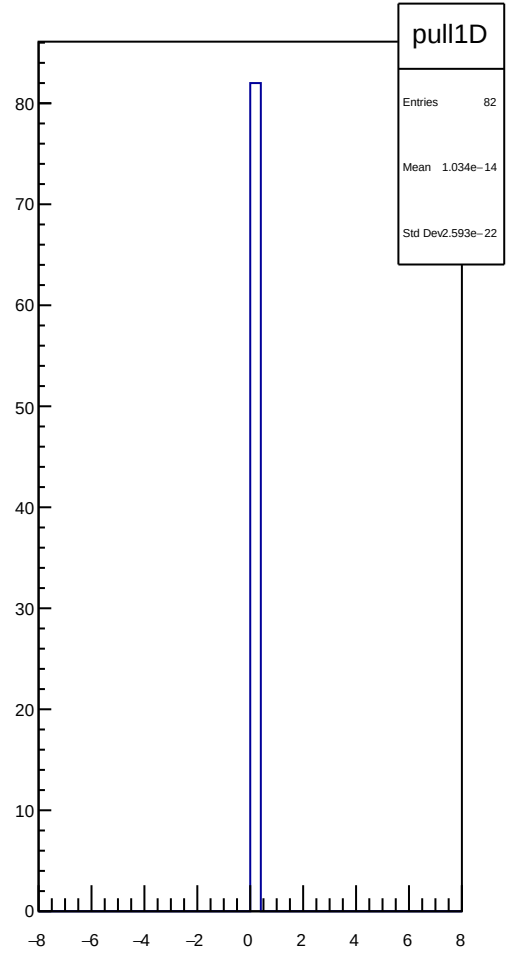

pull1D
Entries 82
Mean 1.997e−13
Std Dev4.792e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

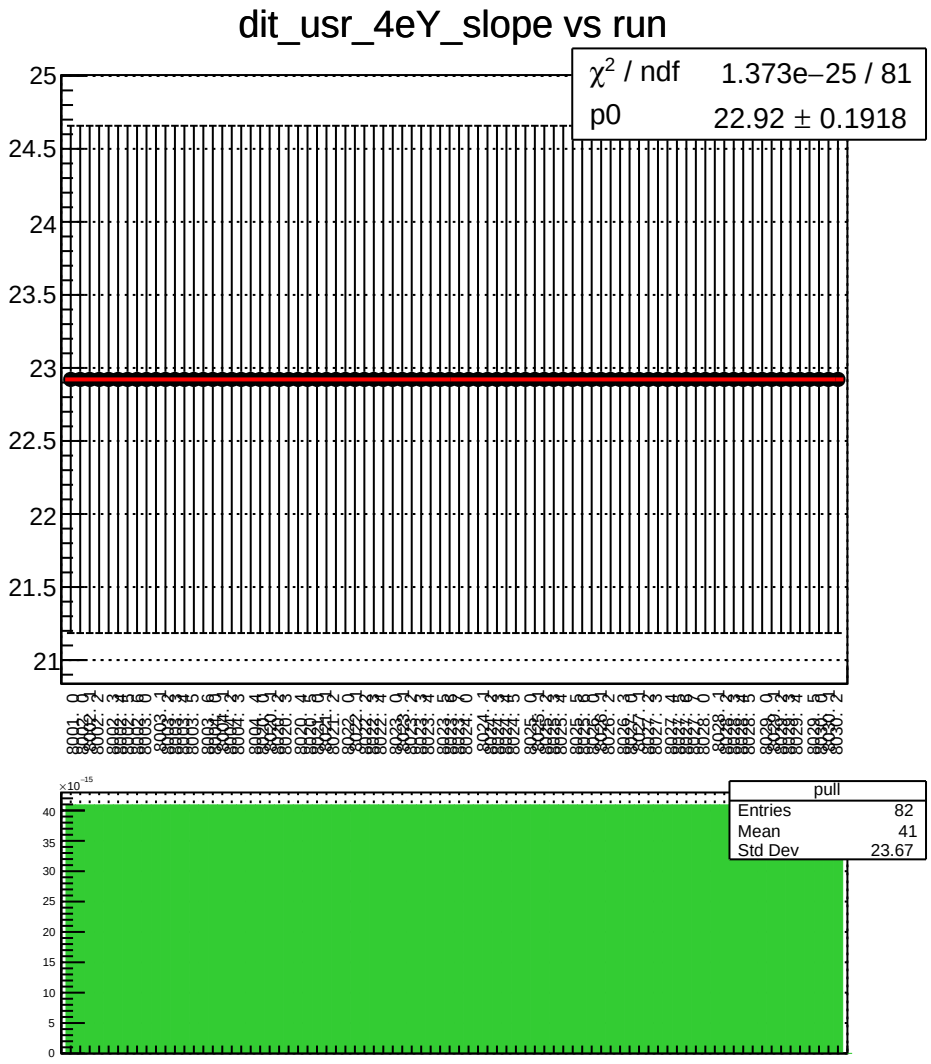

dit_usr_4eX_slope vs run
χ² / ndf 2.406e−24 / 81
p0 175 ± 0.1282
176
175.5
175
174.5
174
×10⁻¹²
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 82
Mean 41
Std Dev 23.67

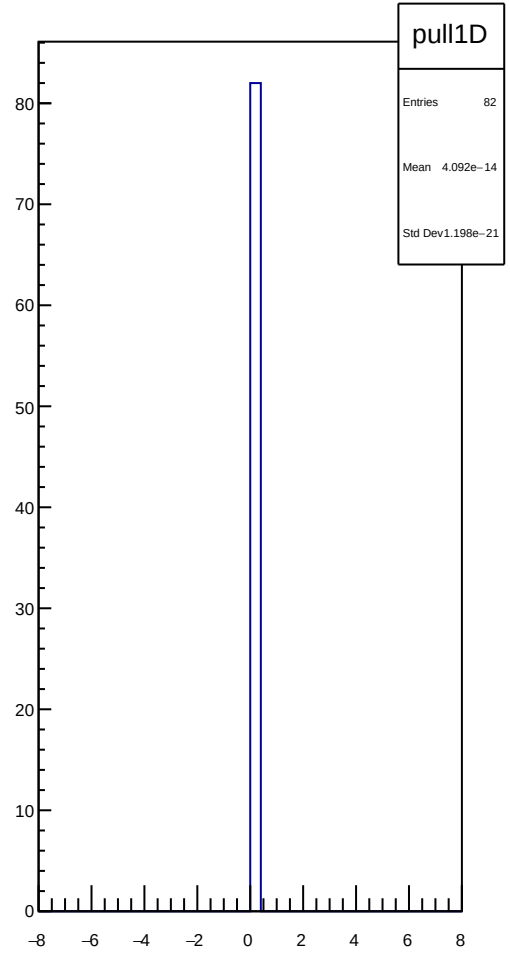

pull1D
Entries 82
Mean 1.713e−13
Std Dev7.187e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

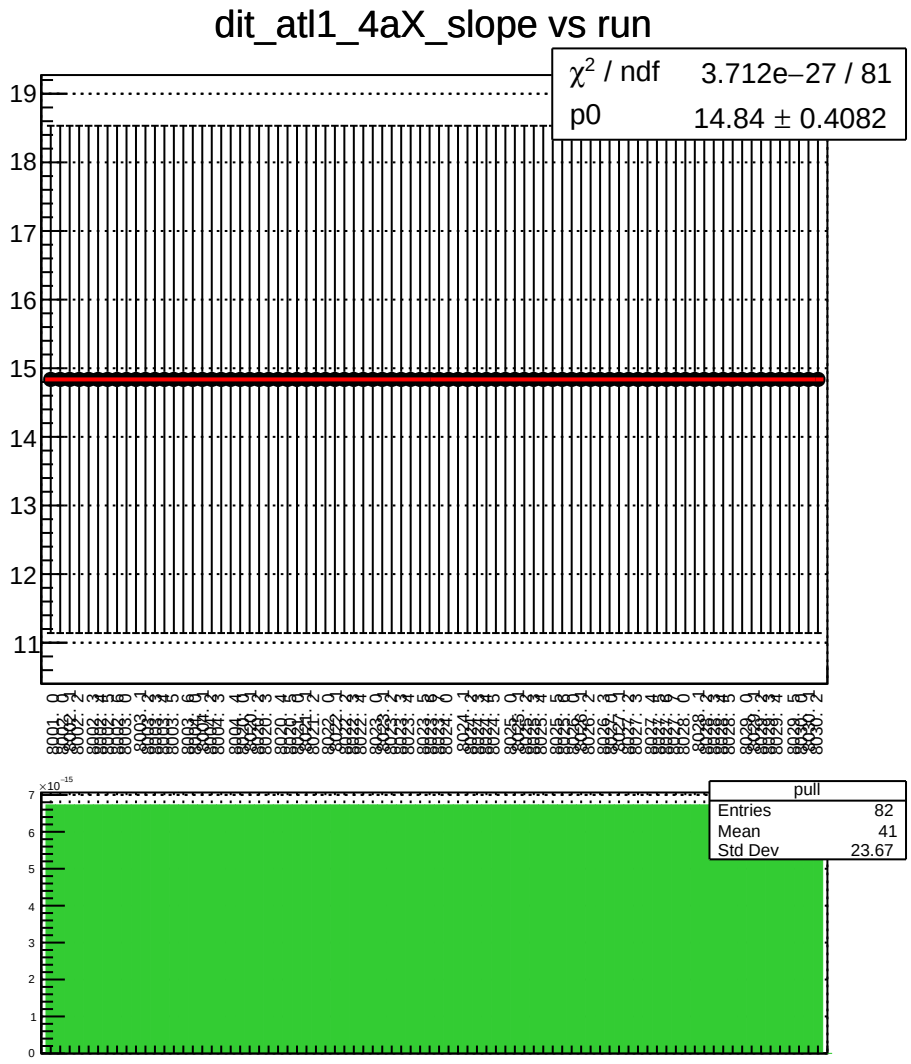

dit_usr_11X12X_slope vs run
χ² / ndf 7.017e−25 / 81
p0 −41.03 ± 0.05089
−40.6
−40.8
−41
−41.2
−41.4
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
pull1D
Entries 82
Mean 9.251e−14
Std Dev3.594e−21

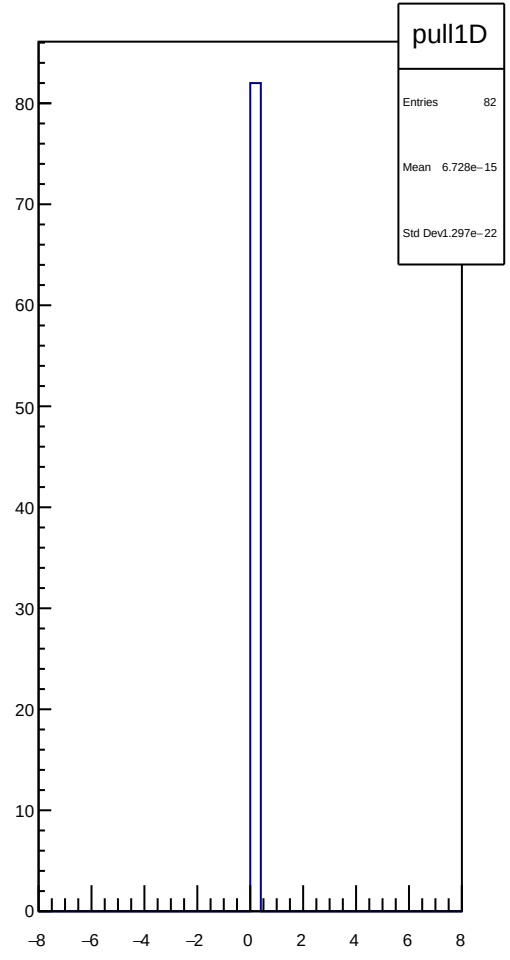

dit_usr_4aY_slope vs run
χ² / ndf 8.764e−27 / 81
p0 −7.534 ± 0.1992
−5.5
−6
−6.5
−7
−7.5
−8
−8.5
−9
−9.5
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
10
8
6
4
2
0

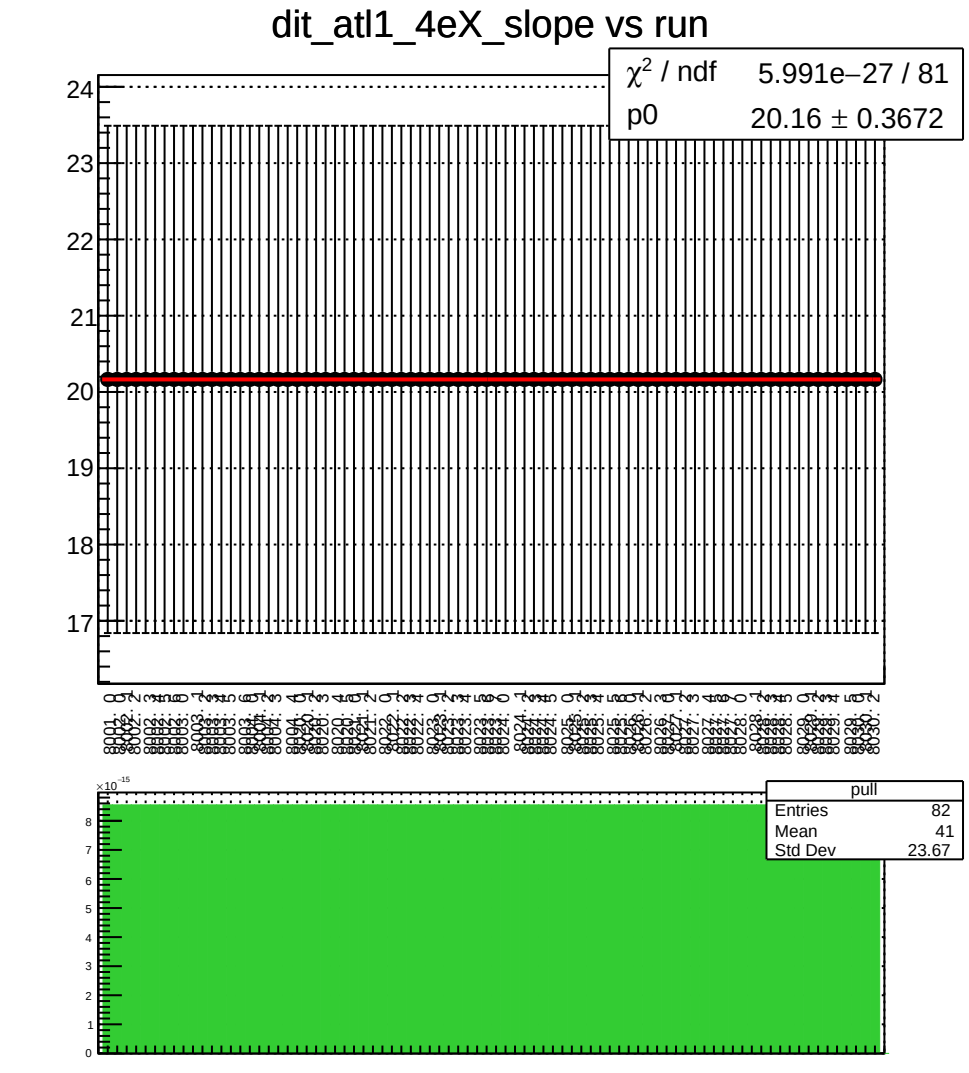

pull1D
Entries 82
Mean 1.034e−14
Std Dev 2.593e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

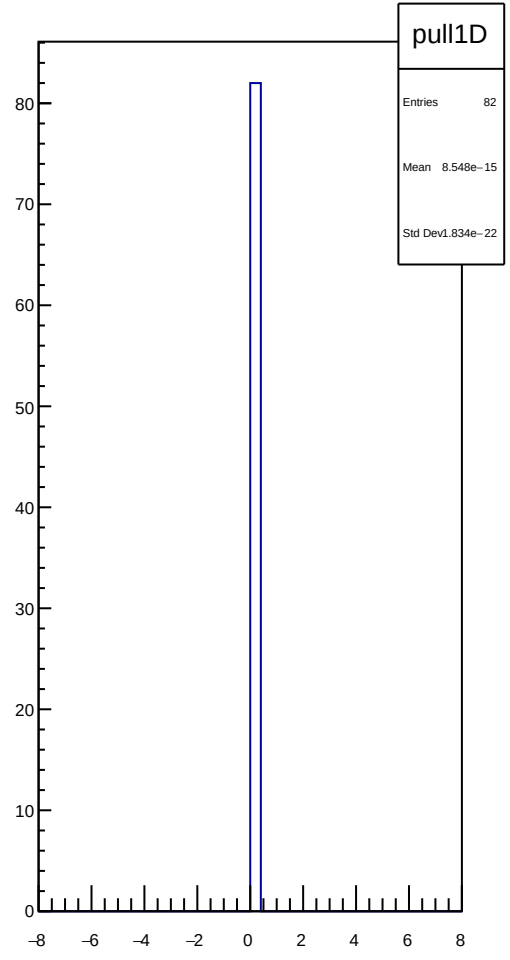

dit_usr_4eY_slope vs run
χ² / ndf 1.373e−25 / 81
p0 22.92 ± 0.1918
pull
Entries 82
Mean 41
Std Dev 23.67

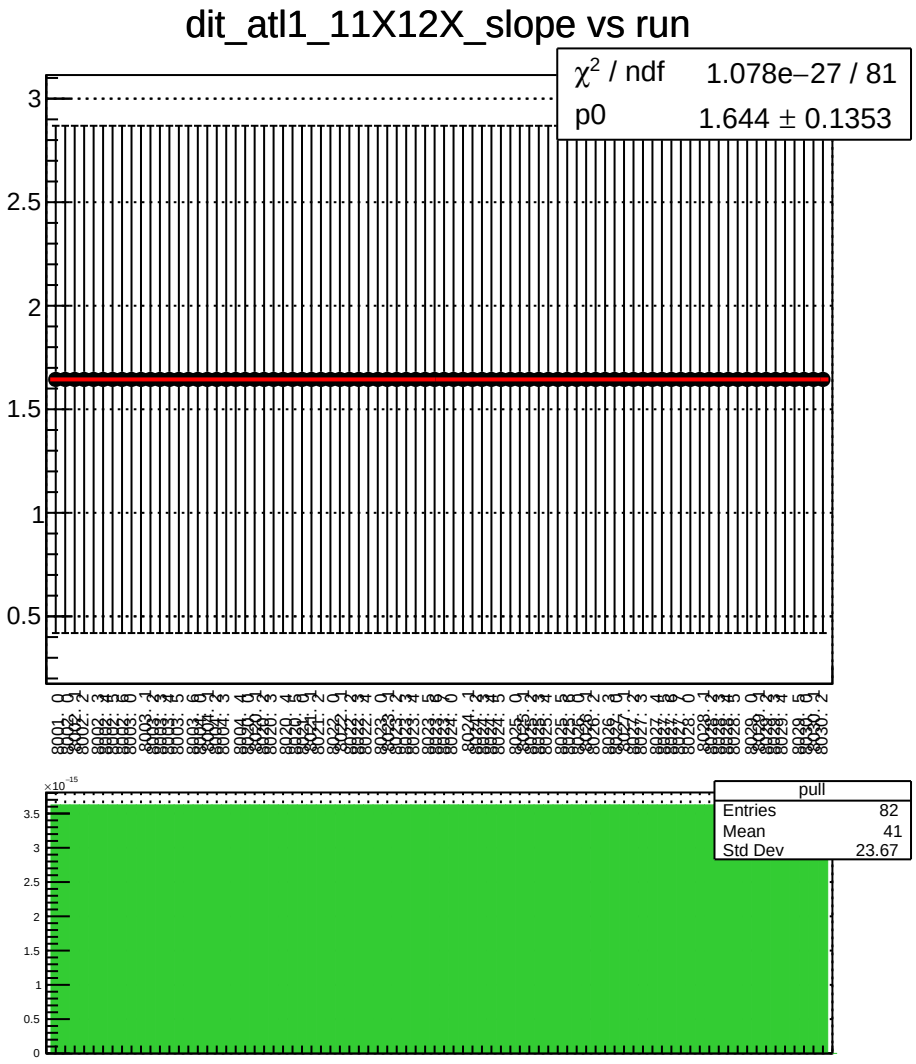

pull1D
Entries 82
Mean 4.092e−14
Std Dev1.198e−21

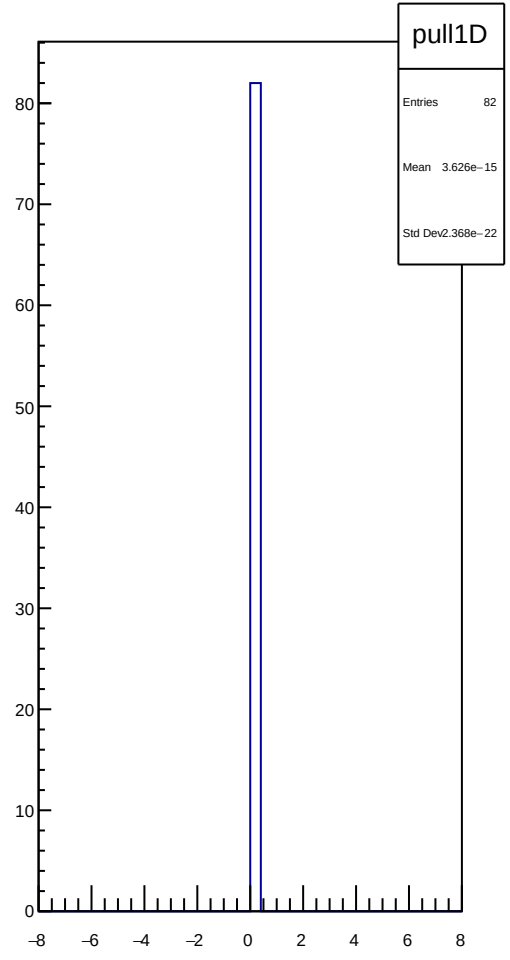

dit_atl1_4aX_slope vs run
χ² / ndf 3.712e−27 / 81
p0 14.84 ± 0.4082
pull
Entries 82
Mean 41
Std Dev 23.67

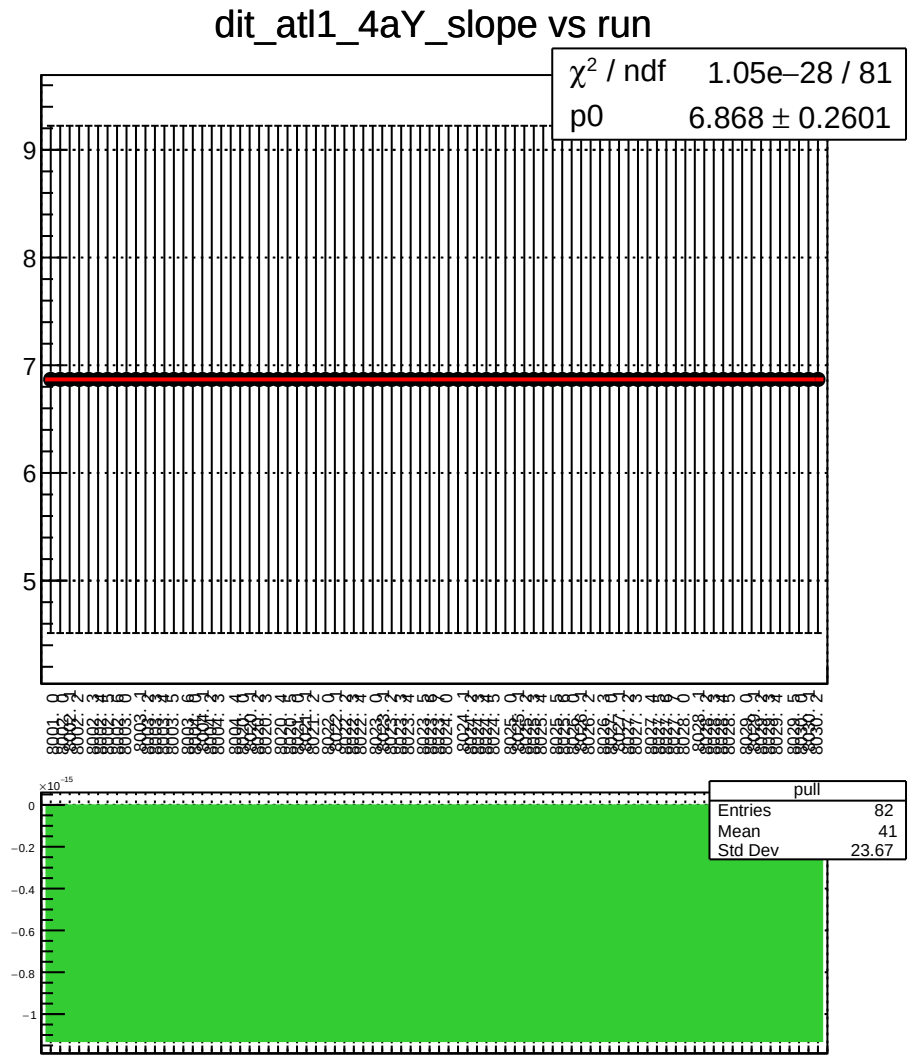

pull1D
Entries 82
Mean 6.728e−15
Std Dev1.297e−22

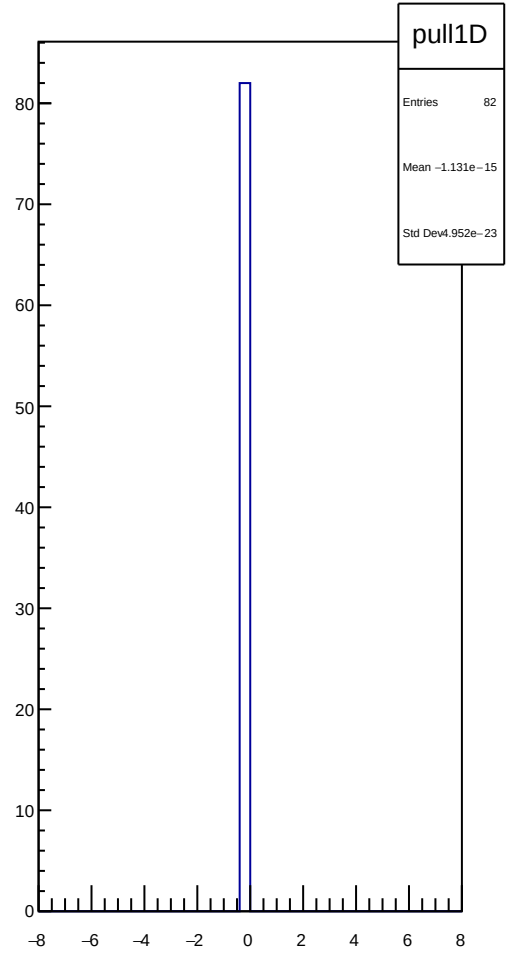

dit_atl1_4eX_slope vs run
χ² / ndf 5.991e−27 / 81
p0 20.16 ± 0.3672
pull
Entries 82
Mean 41
Std Dev 23.67

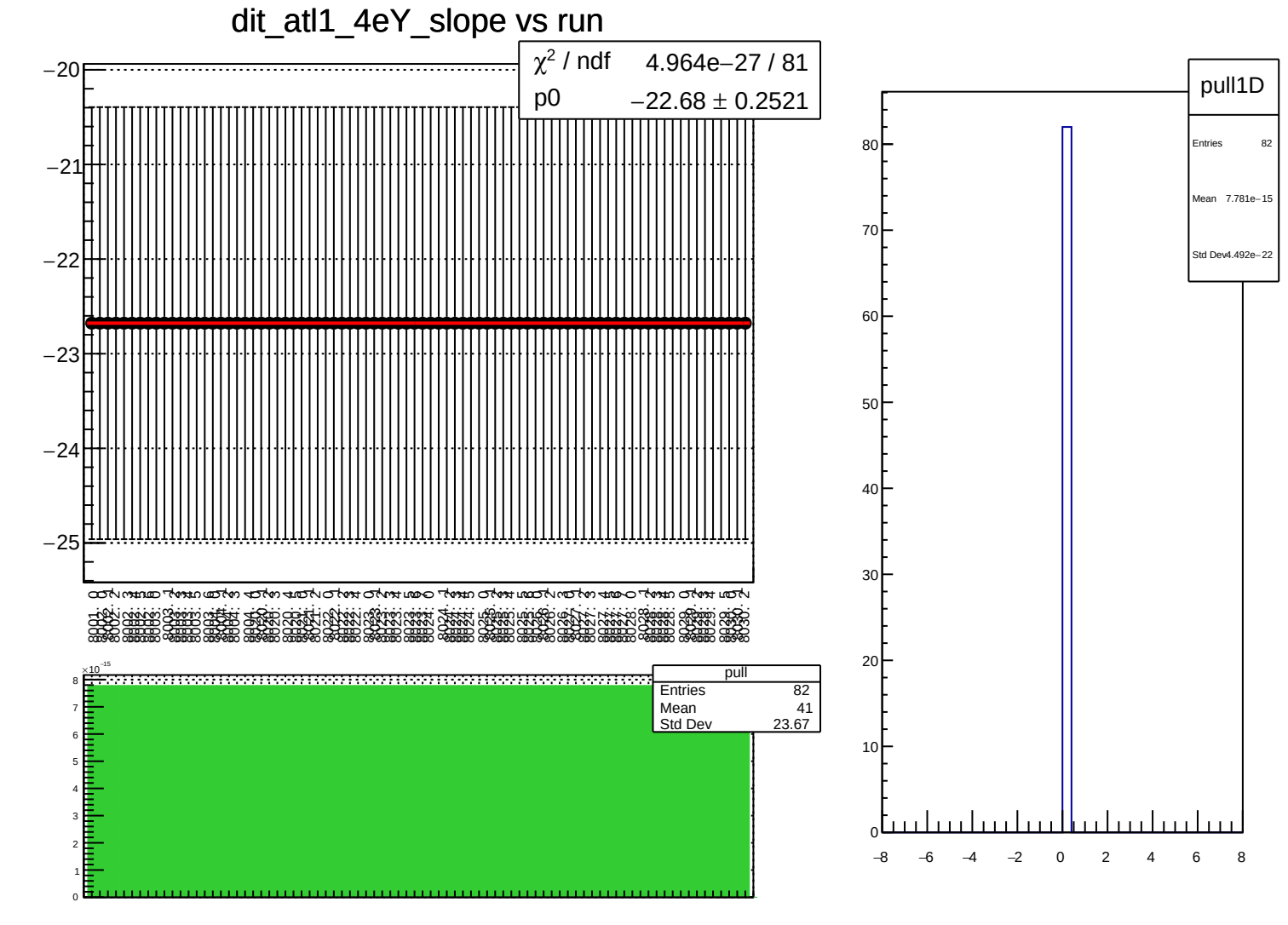

pull1D
Entries 82
Mean 8.548e−15
Std Dev1.834e−22

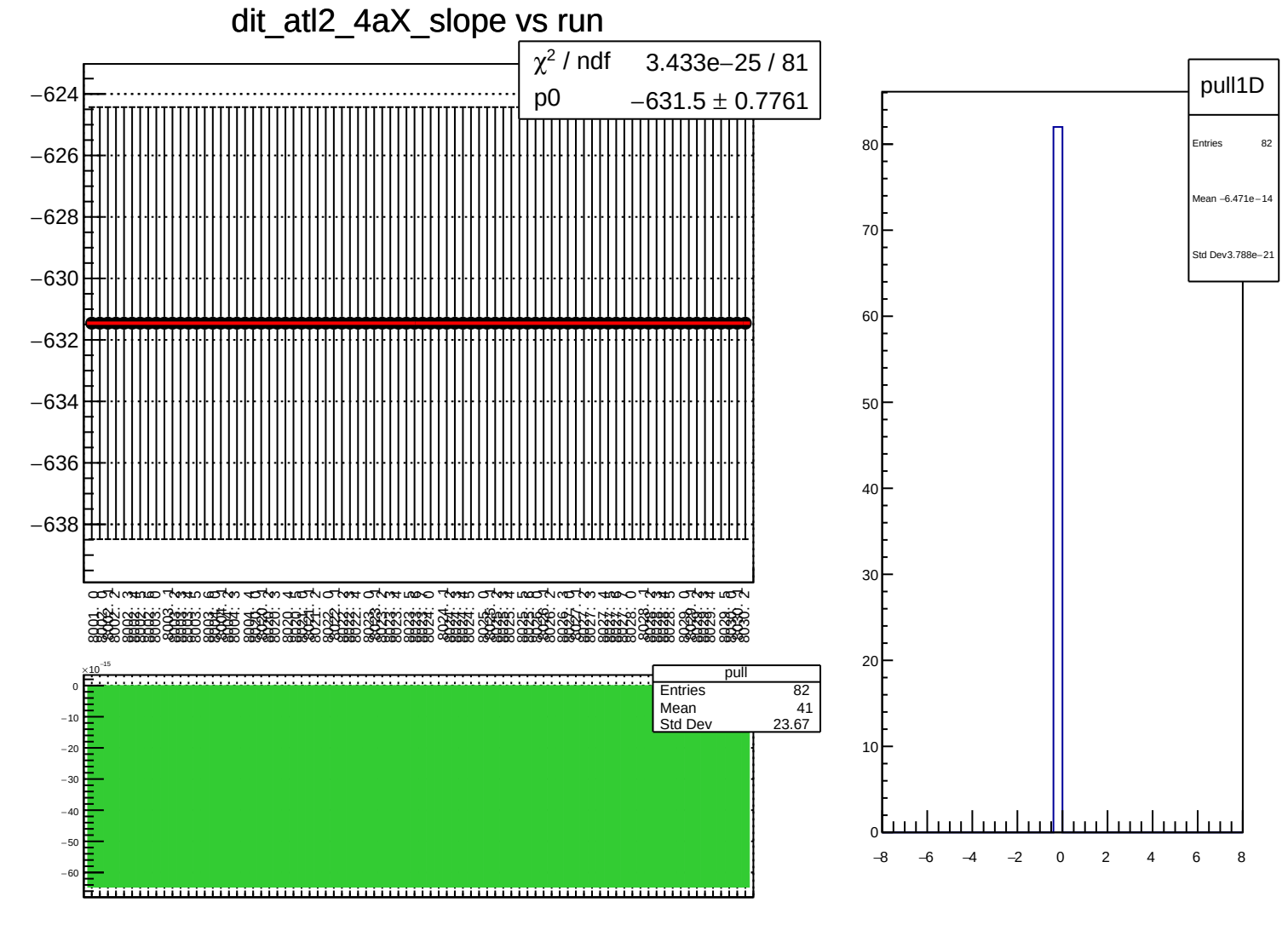

dit_atl1_11X12X_slope vs run
χ² / ndf 1.078e−27 / 81
p0 1.644 ± 0.1353
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵

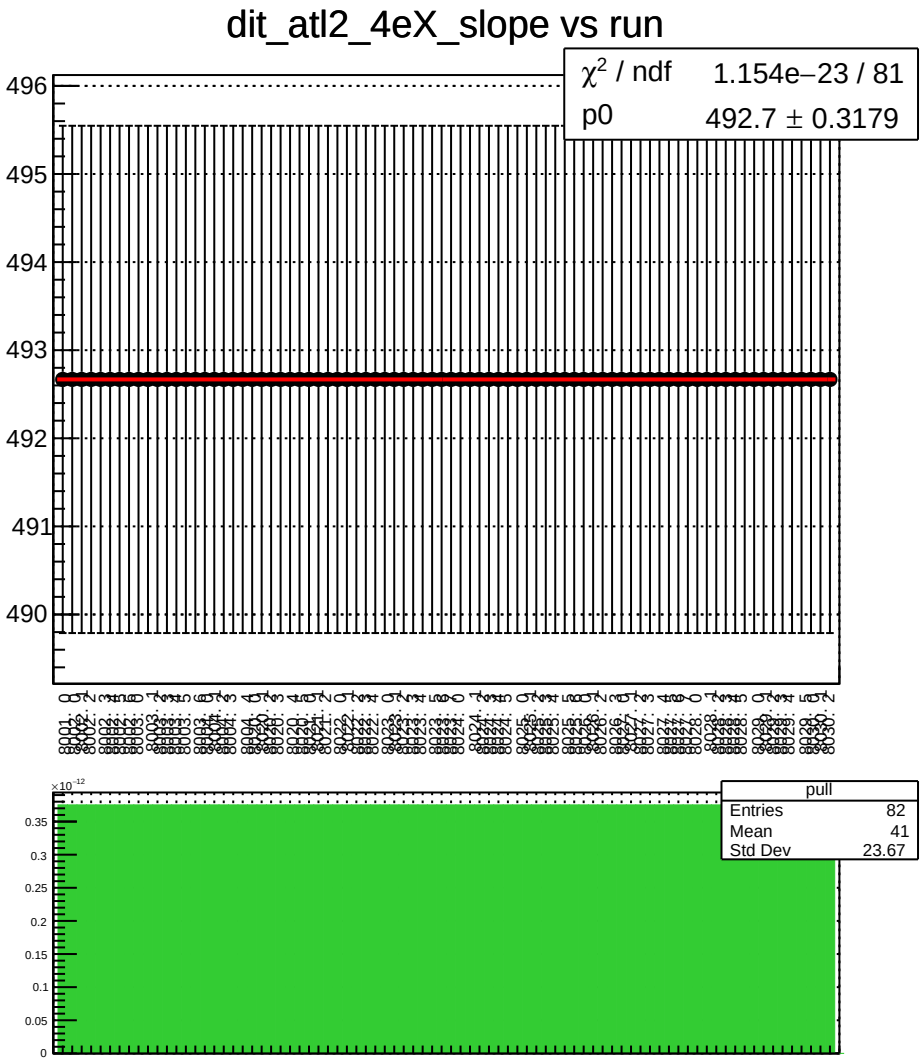

pull1D
Entries 82
Mean 3.626e−15
Std Dev 2.368e−22

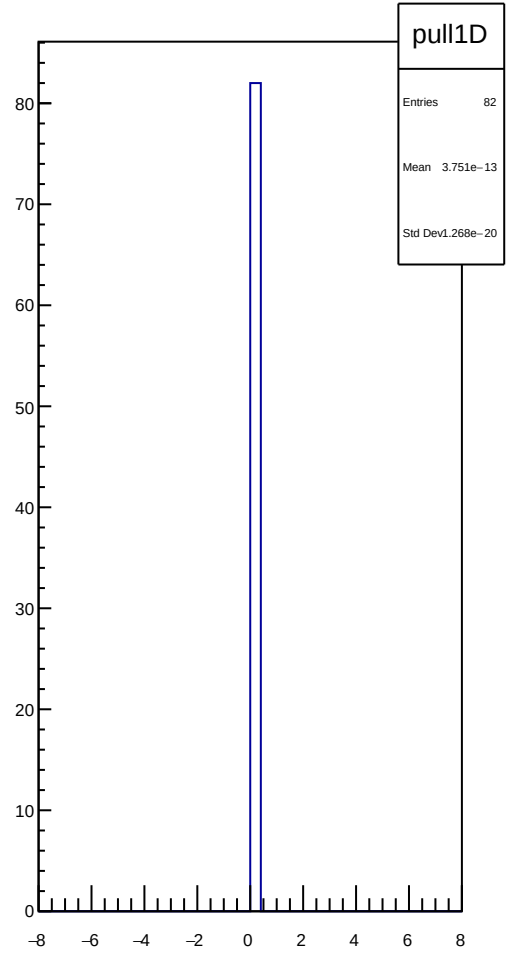

dit_atl1_4aY_slope vs run
χ² / ndf 1.05e−28 / 81
p0 6.868 ± 0.2601
pull
Entries 82
Mean 41
Std Dev 23.67

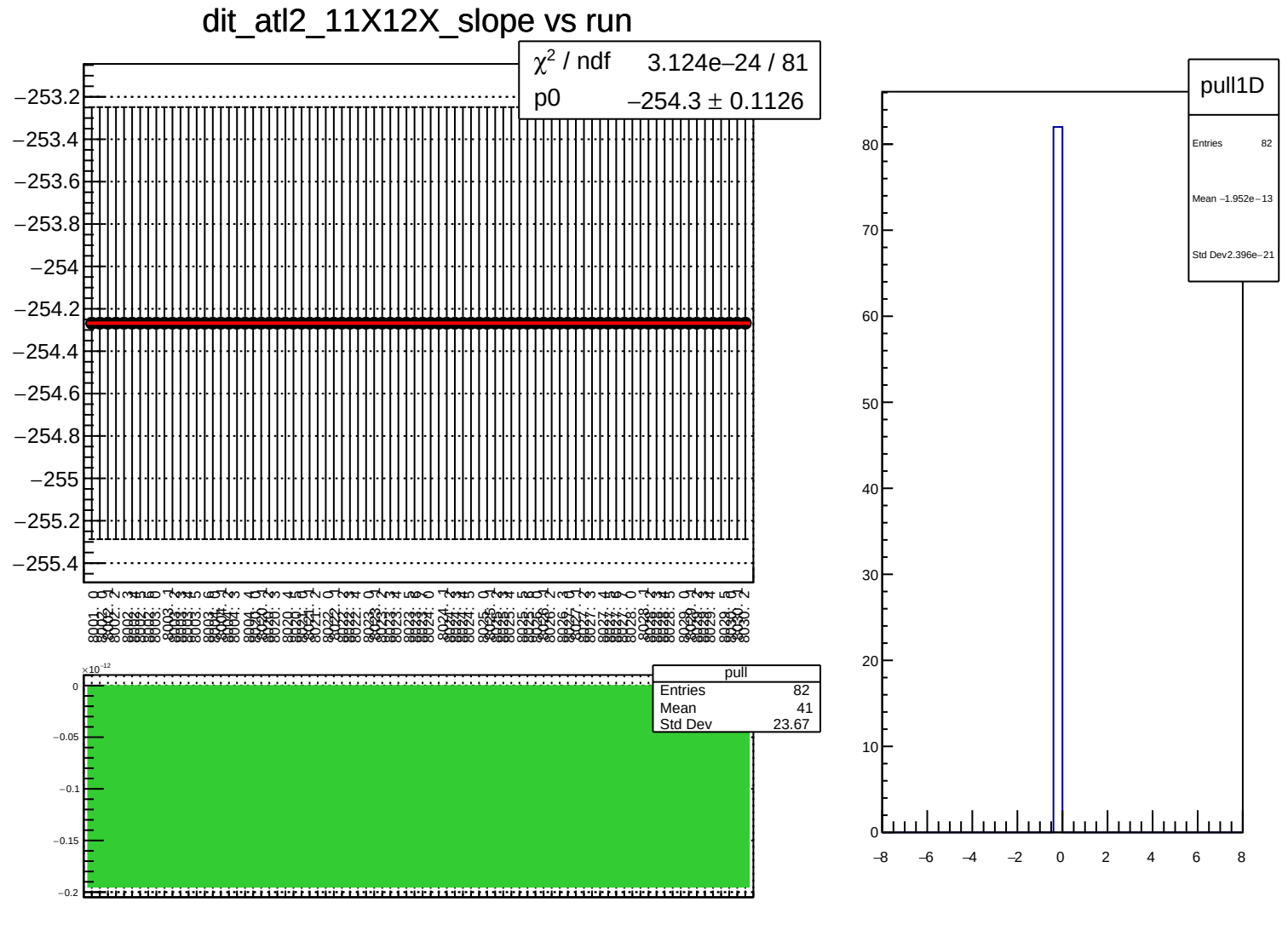

pull1D
Entries 82
Mean −1.131e−15
Std Dev 4.952e−23

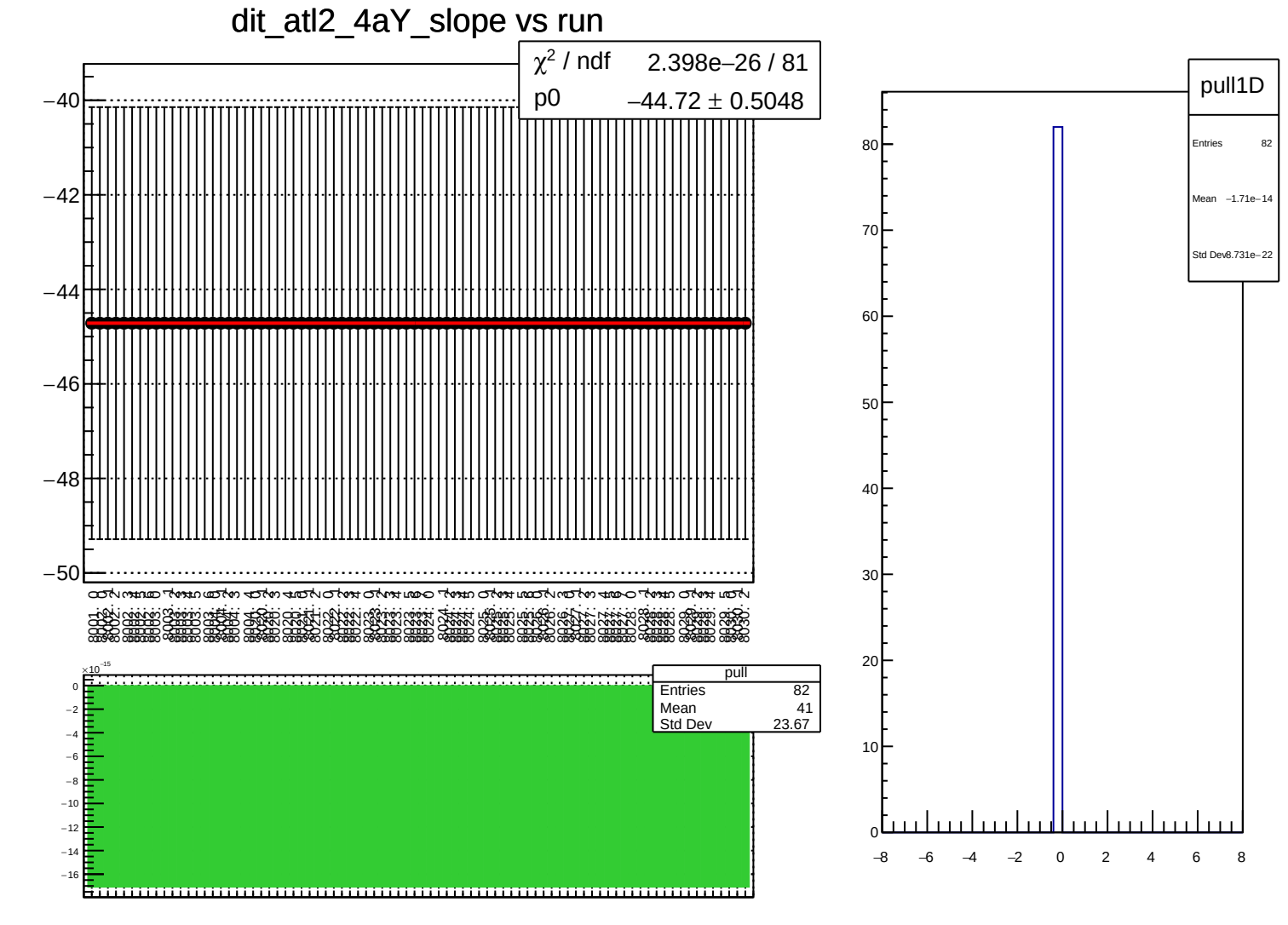

dit_atl1_4eY_slope vs run
χ² / ndf 4.964e−27 / 81
p0 −22.68 ± 0.2521
pull
Entries 82
Mean 41
Std Dev 23.67
pull1D
Entries 82
Mean 7.781e−15
Std Dev 4.492e−22

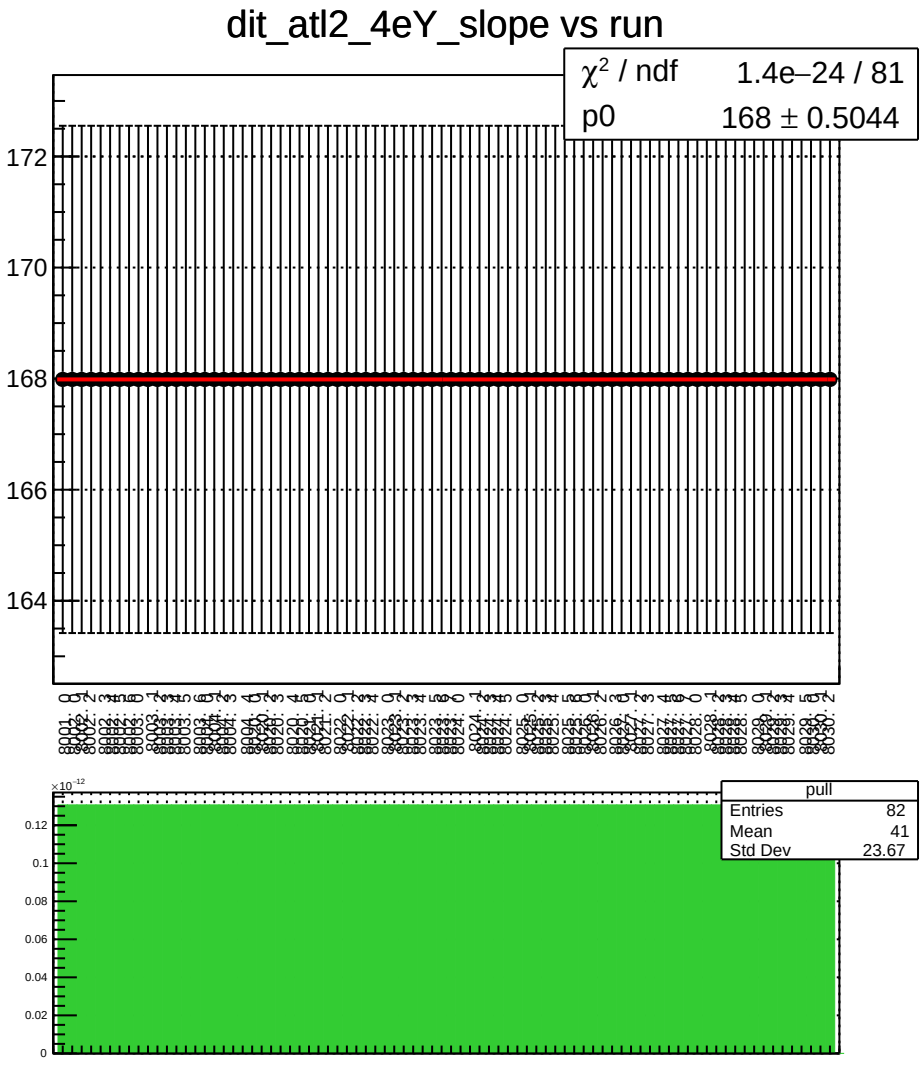

dit_atl2_4aX_slope vs run
χ² / ndf 3.433e−25 / 81
p0 −631.5 ± 0.7761
−624
−626
−628
−630
−632
−634
−636
−638
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 82
Mean −6.471e−14
Std Dev3.788e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

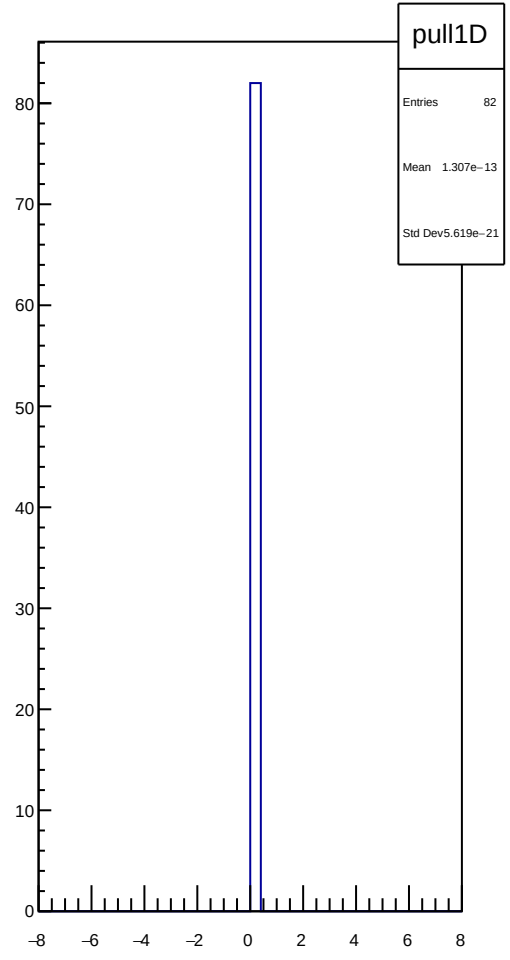

dit_atl2_4eX_slope vs run
χ² / ndf 1.154e−23 / 81
p0 492.7 ± 0.3179
pull
Entries 82
Mean 41
Std Dev 23.67

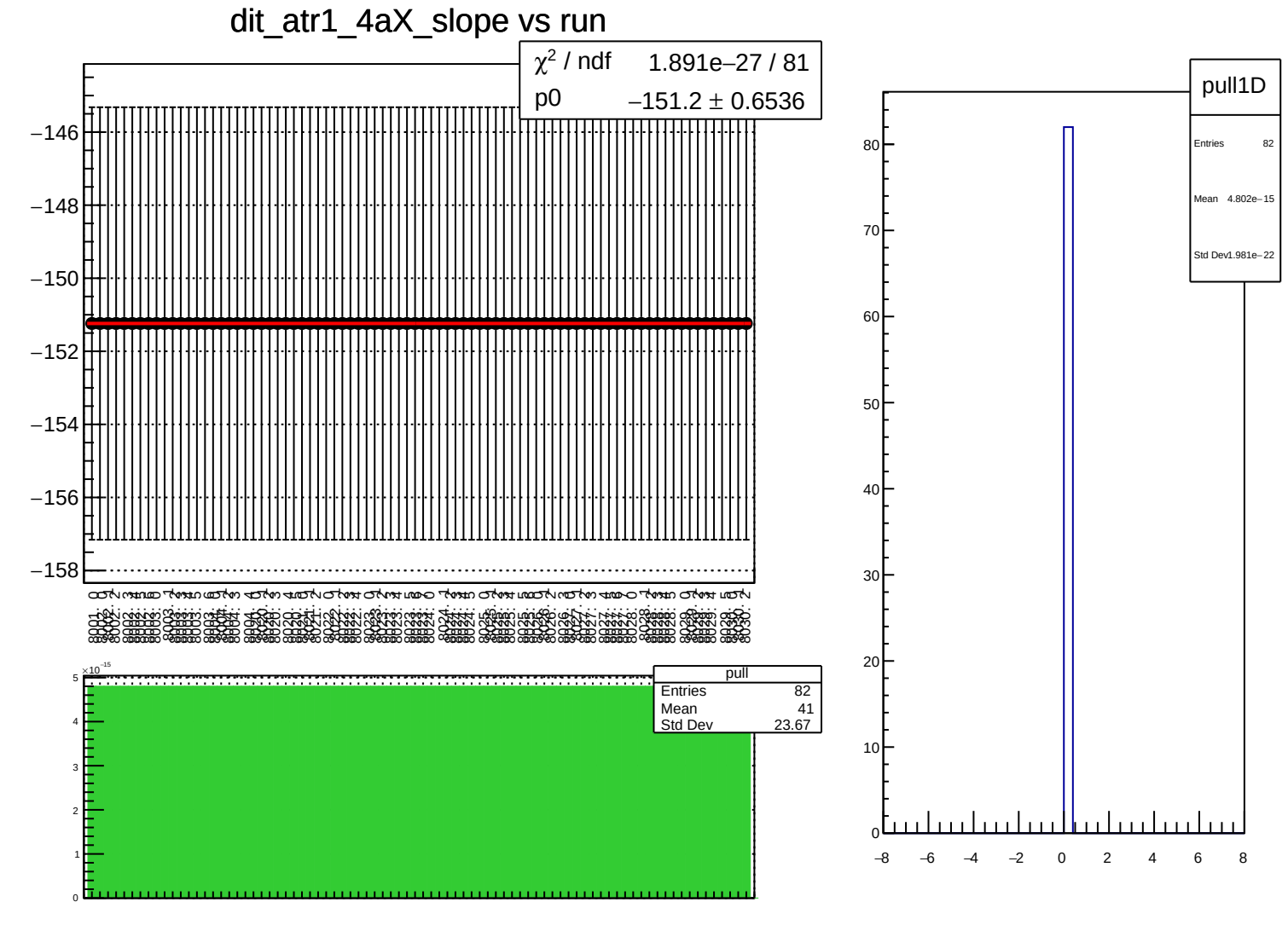

pull1D
Entries 82
Mean 3.751e−13
Std Dev1.268e−20

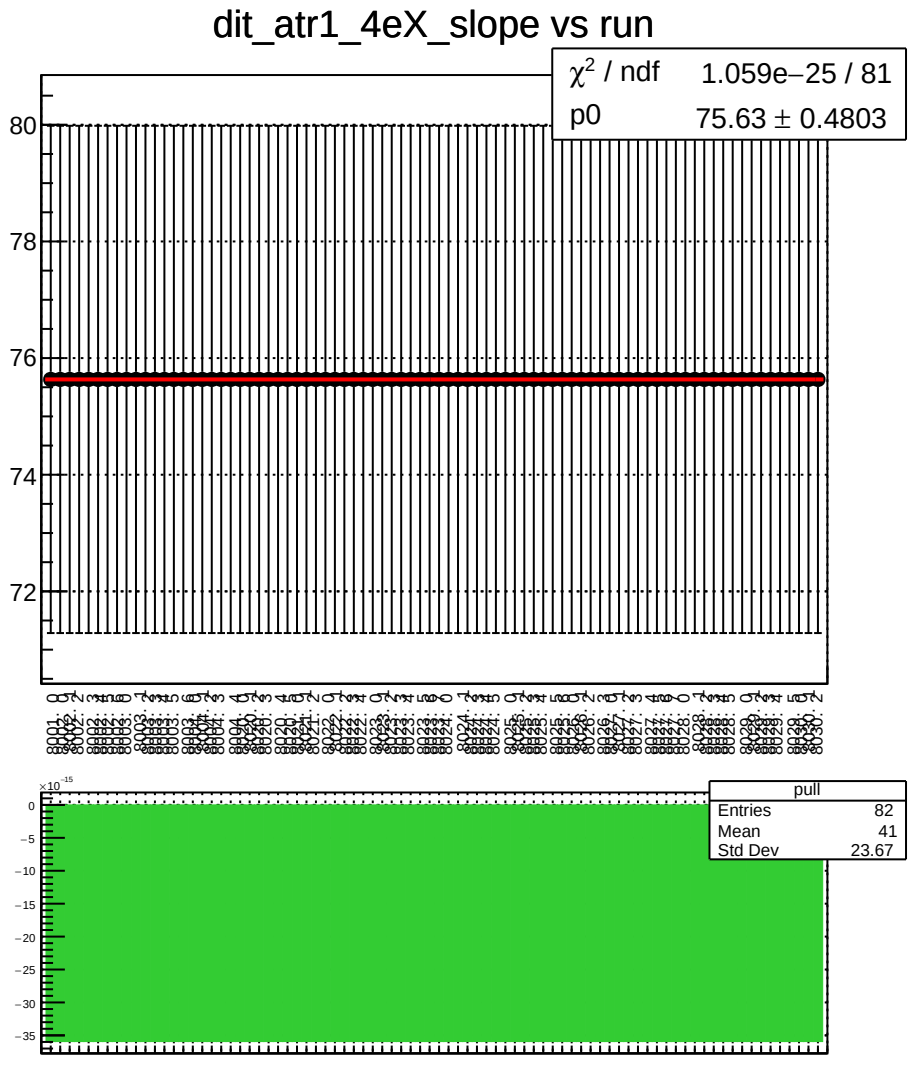

dit_atl2_11X12X_slope vs run
χ² / ndf 3.124e−24 / 81
p0 −254.3 ± 0.1126
−253.2
−253.4
−253.6
−253.8
−254
−254.2
−254.4
−254.6
−254.8
−255
−255.2
−255.4
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 82
Mean −1.952e−13
Std Dev2.396e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

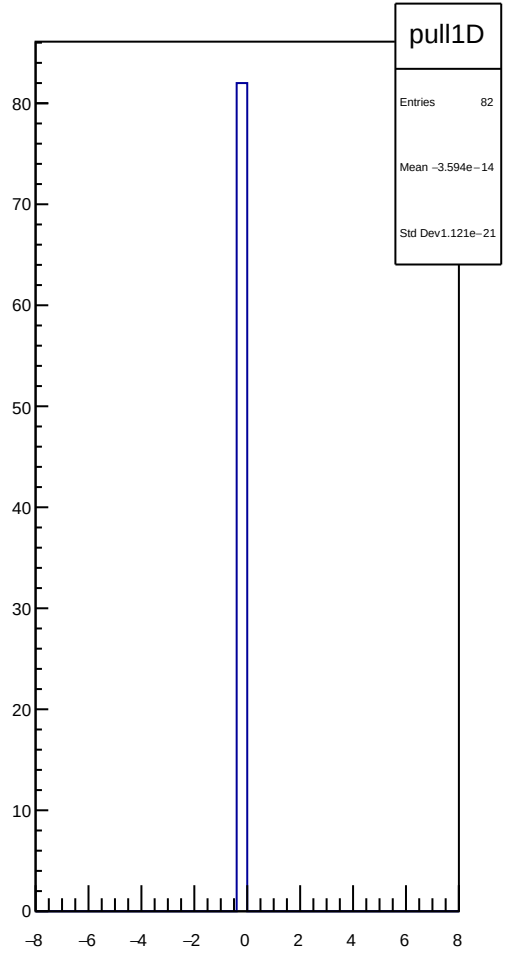

dit_atl2_4aY_slope vs run
χ² / ndf 2.398e−26 / 81
p0 −44.72 ± 0.5048
−40
−42
−44
−46
−48
−50
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
pull1D
Entries 82
Mean −1.71e−14
Std Dev 8.731e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

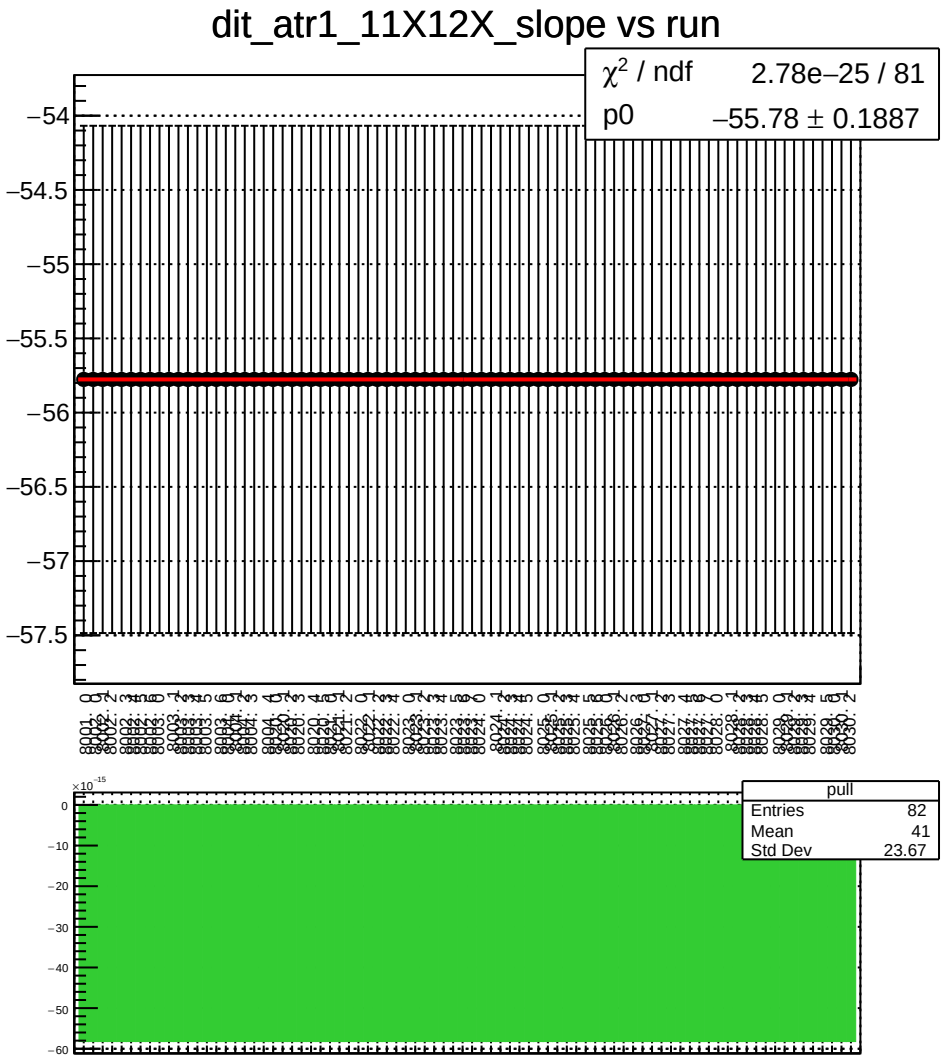

dit_atl2_4eY_slope vs run
χ² / ndf 1.4e−24 / 81
p0 168 ± 0.5044
172
170
168
166
164
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹²
0.12
0.1
0.08
0.06
0.04
0.02
0

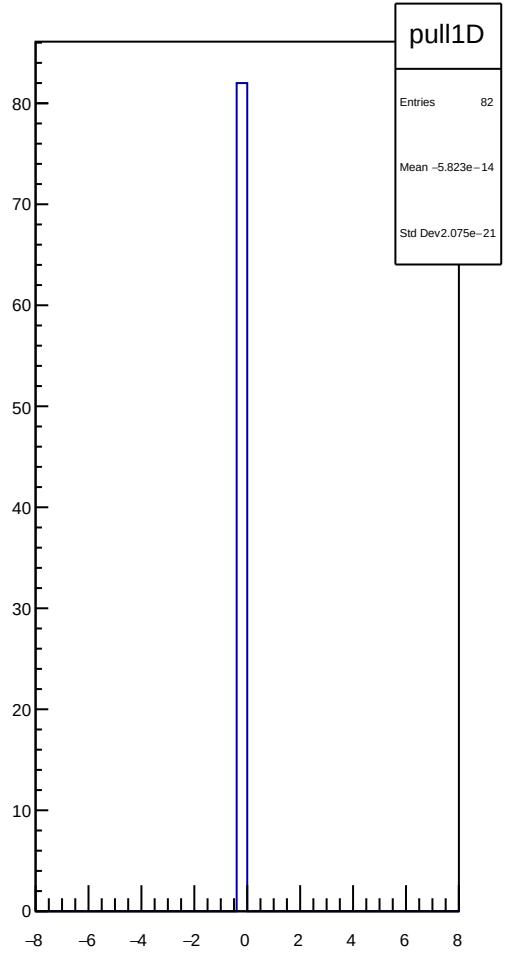

pull1D
Entries 82
Mean 1.307e−13
Std Dev5.619e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

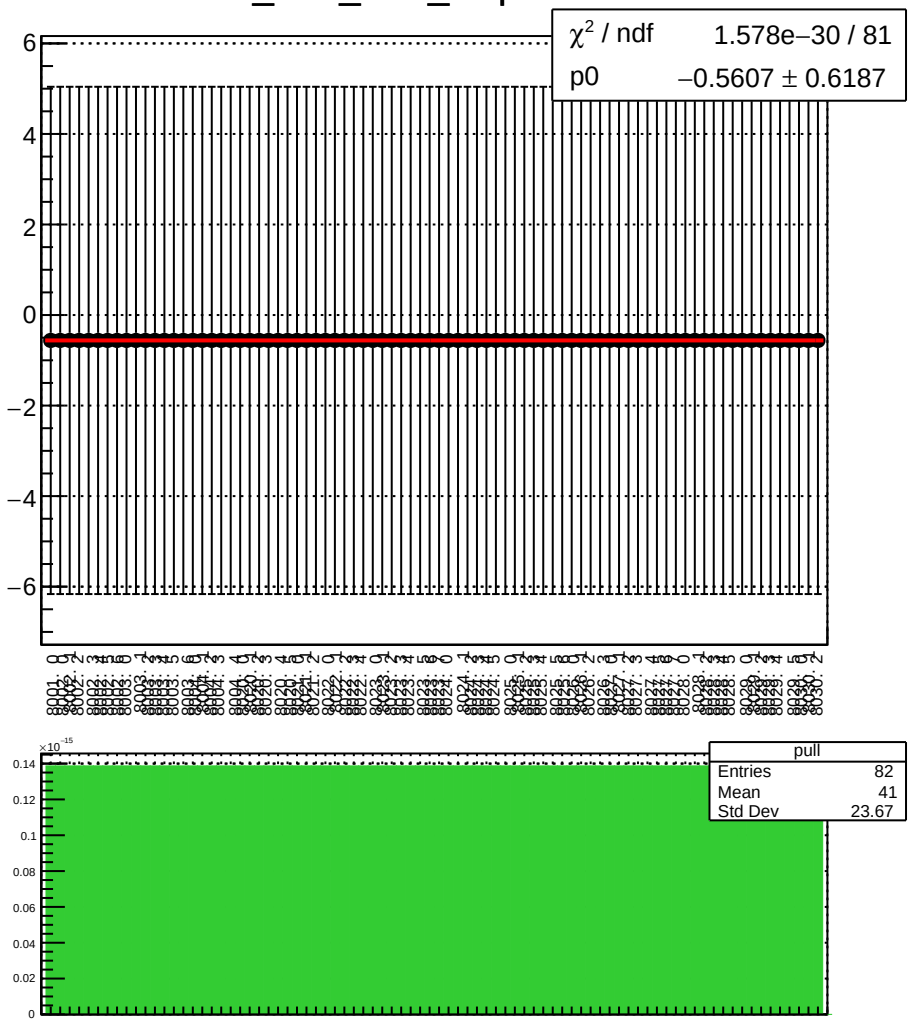

dit_atr1_4aX_slope vs run
χ² / ndf 1.891e−27 / 81
p0 −151.2 ± 0.6536
−146
−148
−150
−152
−154
−156
−158
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
5
4
3
2
1
0
pull1D
Entries 82
Mean 4.802e−15
Std Dev1.981e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

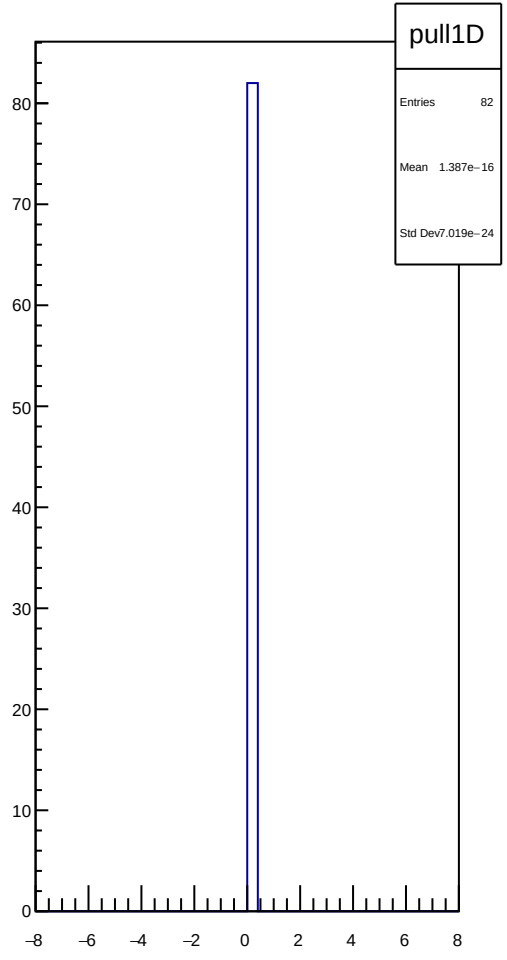

dit_atr1_4eX_slope vs run
χ² / ndf 1.059e−25 / 81
p0 75.63 ± 0.4803
80
78
76
74
72
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35

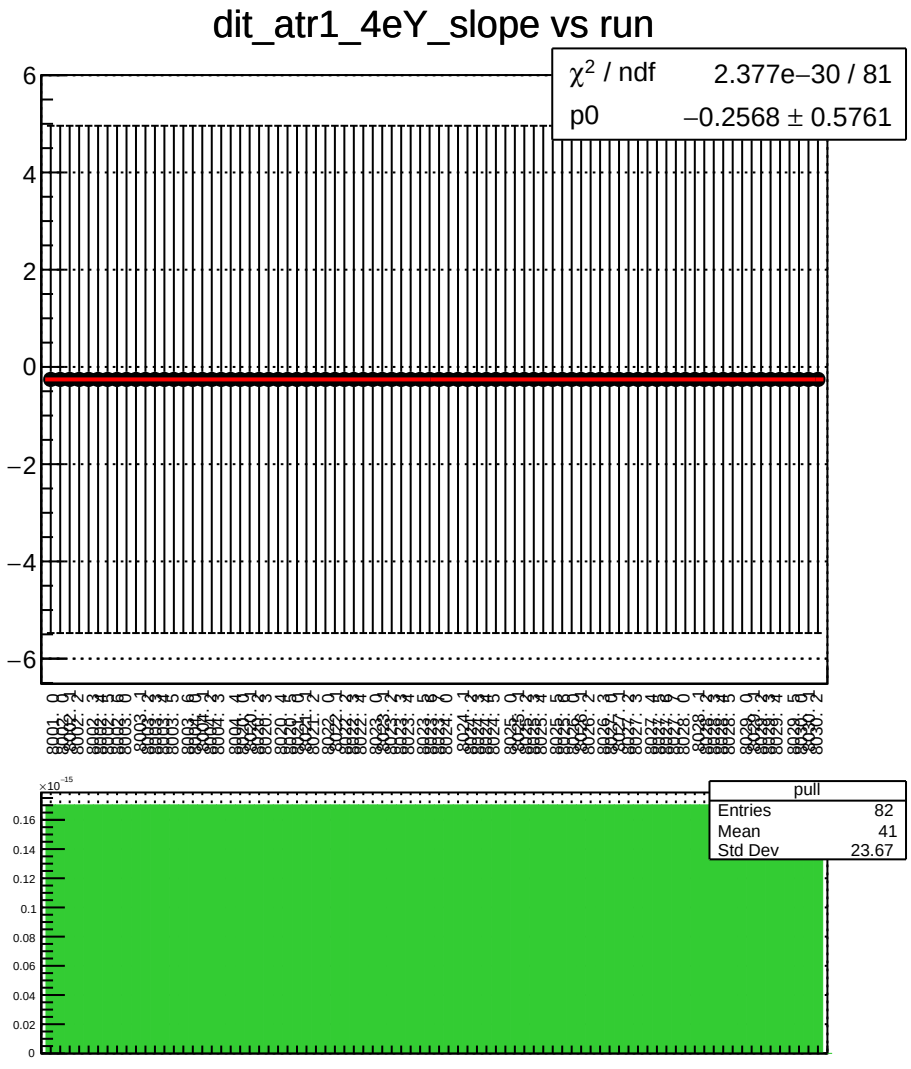

pull1D
Entries 82
Mean −3.594e−14
Std Dev1.121e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

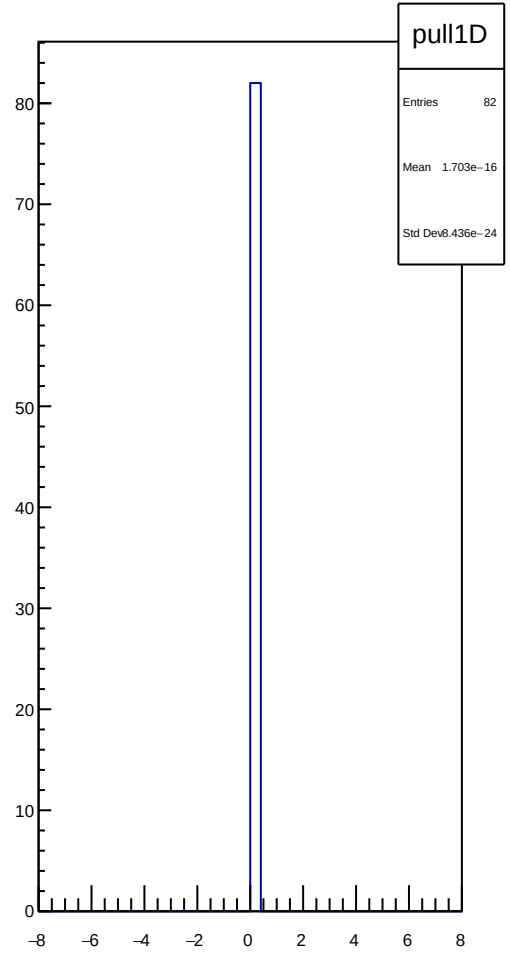

dit_atr1_11X12X_slope vs run
χ² / ndf 2.78e−25 / 81
p0 −55.78 ± 0.1887
−54
−54.5
−55
−55.5
−56
−56.5
−57
−57.5
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60

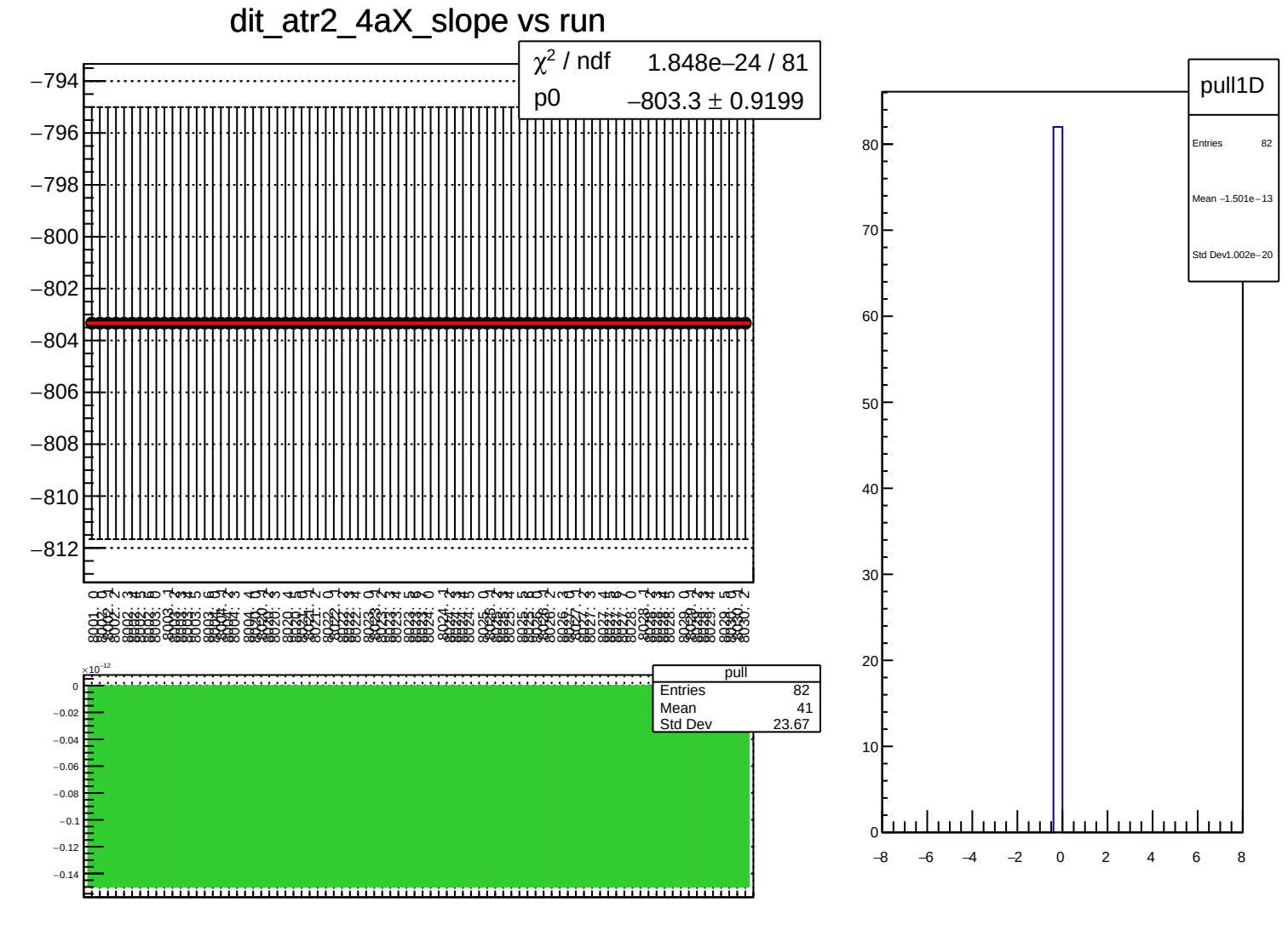

pull1D
Entries 82
Mean −5.823e−14
Std Dev2.075e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

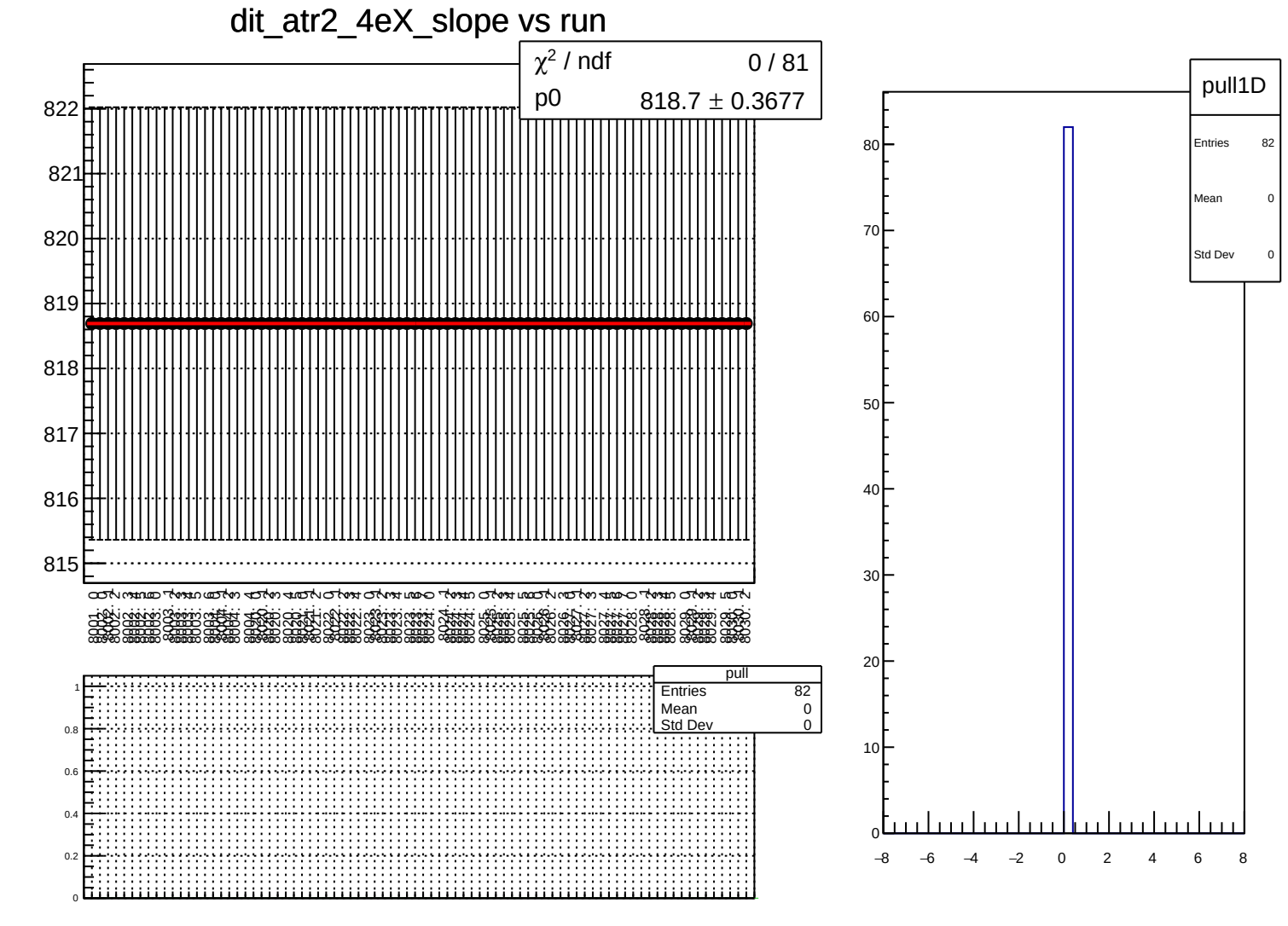

dit_atr1_4aY_slope vs run
χ² / ndf 1.578e−30 / 81
p0 −0.5607 ± 0.6187
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵

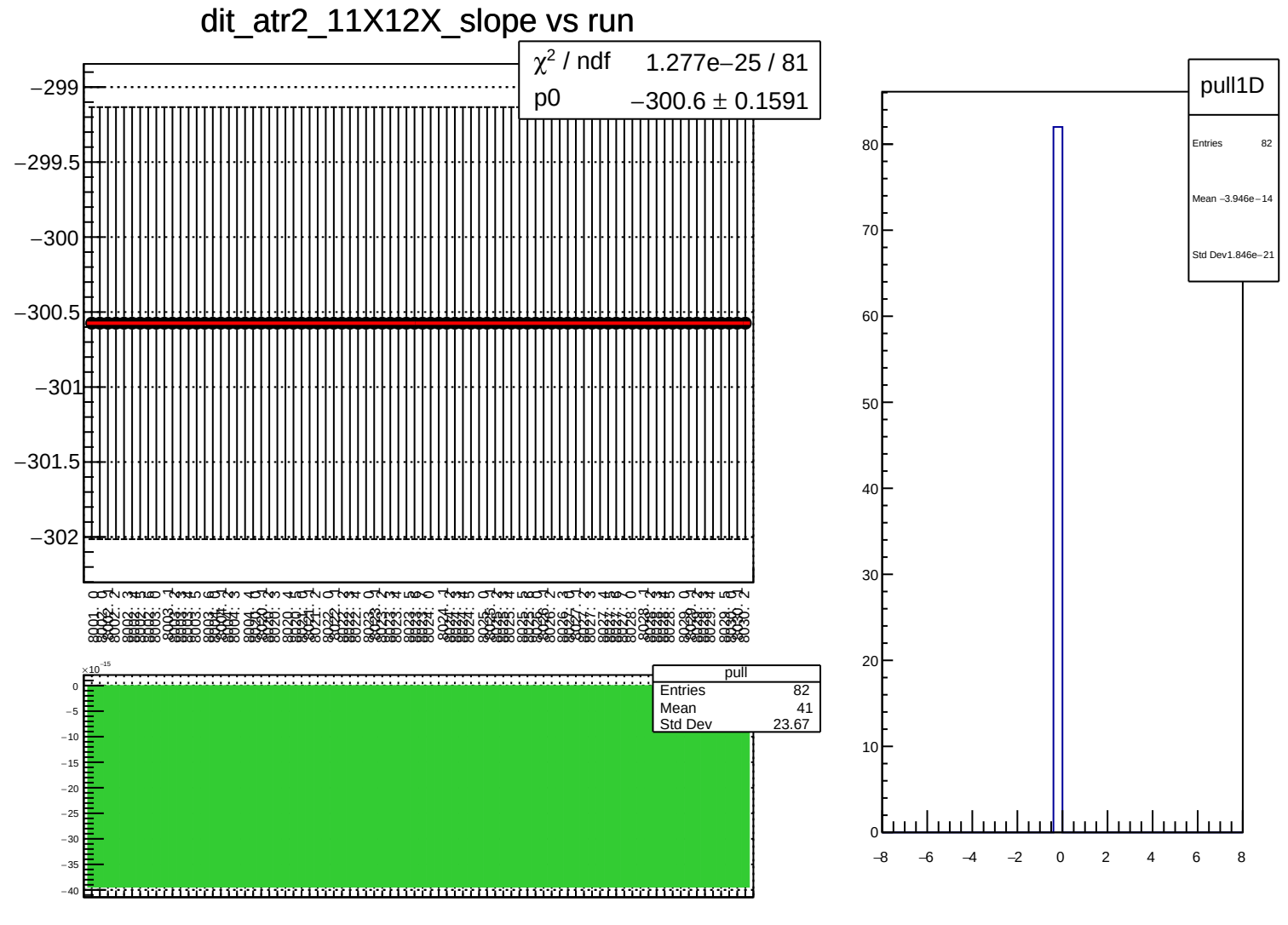

pull1D
Entries 82
Mean 1.387e−16
Std Dev7.019e−24

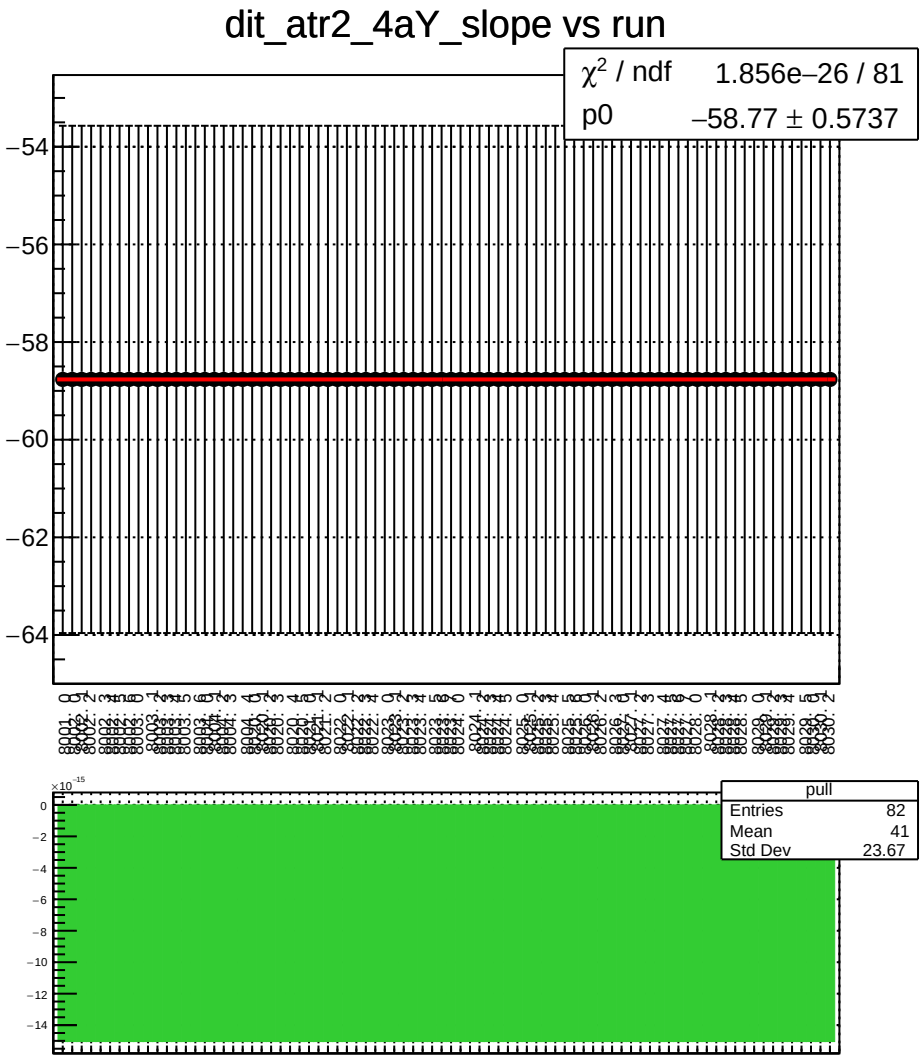

dit_atr1_4eY_slope vs run
χ² / ndf 2.377e−30 / 81
p0 −0.2568 ± 0.5761
pull
Entries 82
Mean 41
Std Dev 23.67

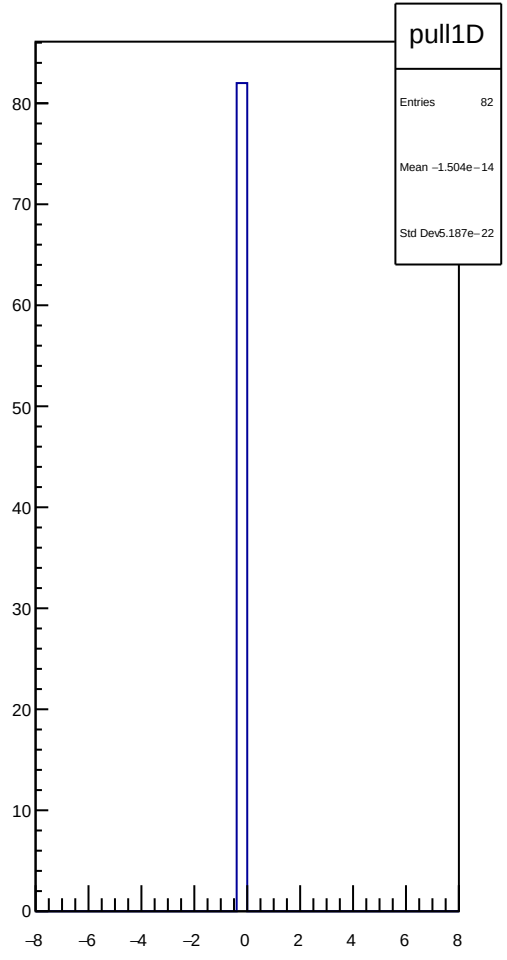

pull1D
Entries 82
Mean 1.703e−16
Std Dev 8.436e−24

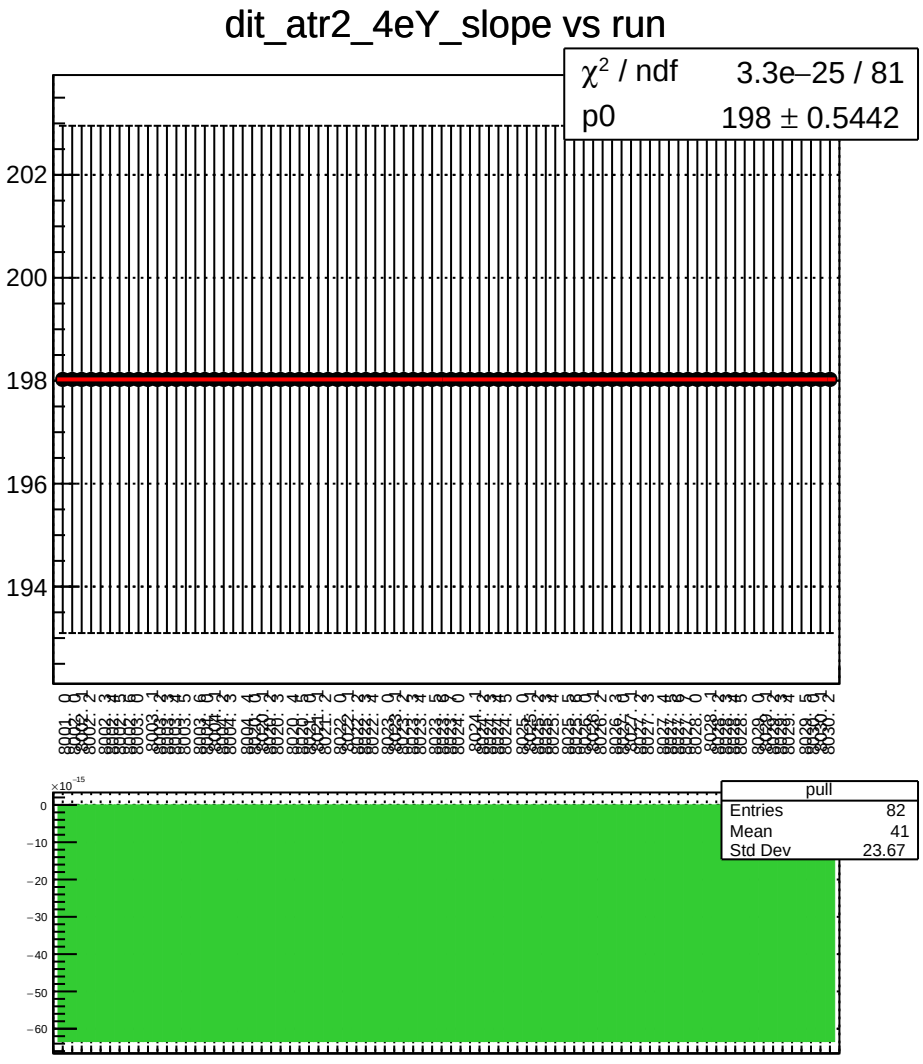

dit_atr2_4aX_slope vs run
χ² / ndf 1.848e−24 / 81
p0 −803.3 ± 0.9199
−794
−796
−798
−800
−802
−804
−806
−808
−810
−812
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull1D
Entries 82
Mean −1.501e−13
Std Dev1.002e−20
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

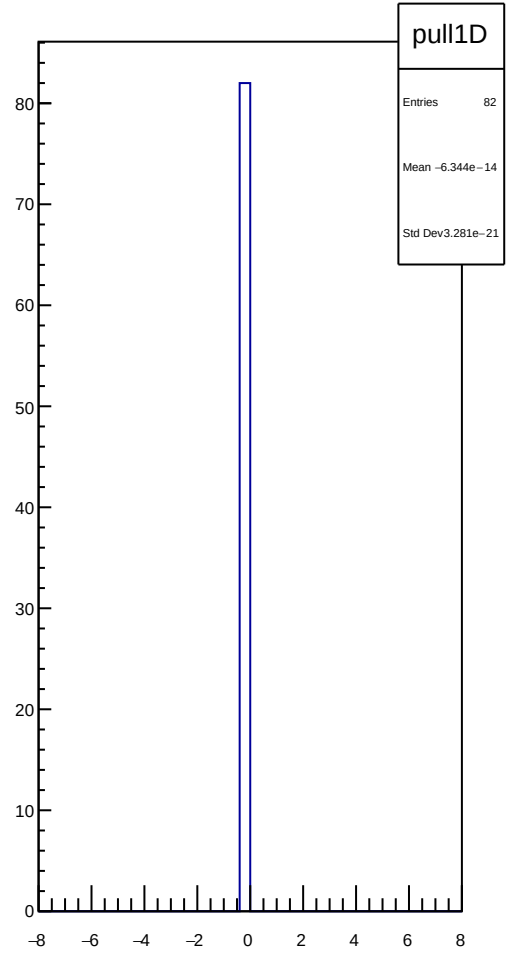

dit_atr2_4eX_slope vs run
χ² / ndf 0 / 81
p0 818.7 ± 0.3677
822
821
820
819
818
817
816
815
pull
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 82
Mean 0
Std Dev 0
80
70
60
50
40
30
20
10
0
–8
–6
–4
–2
0
2
4
6
8

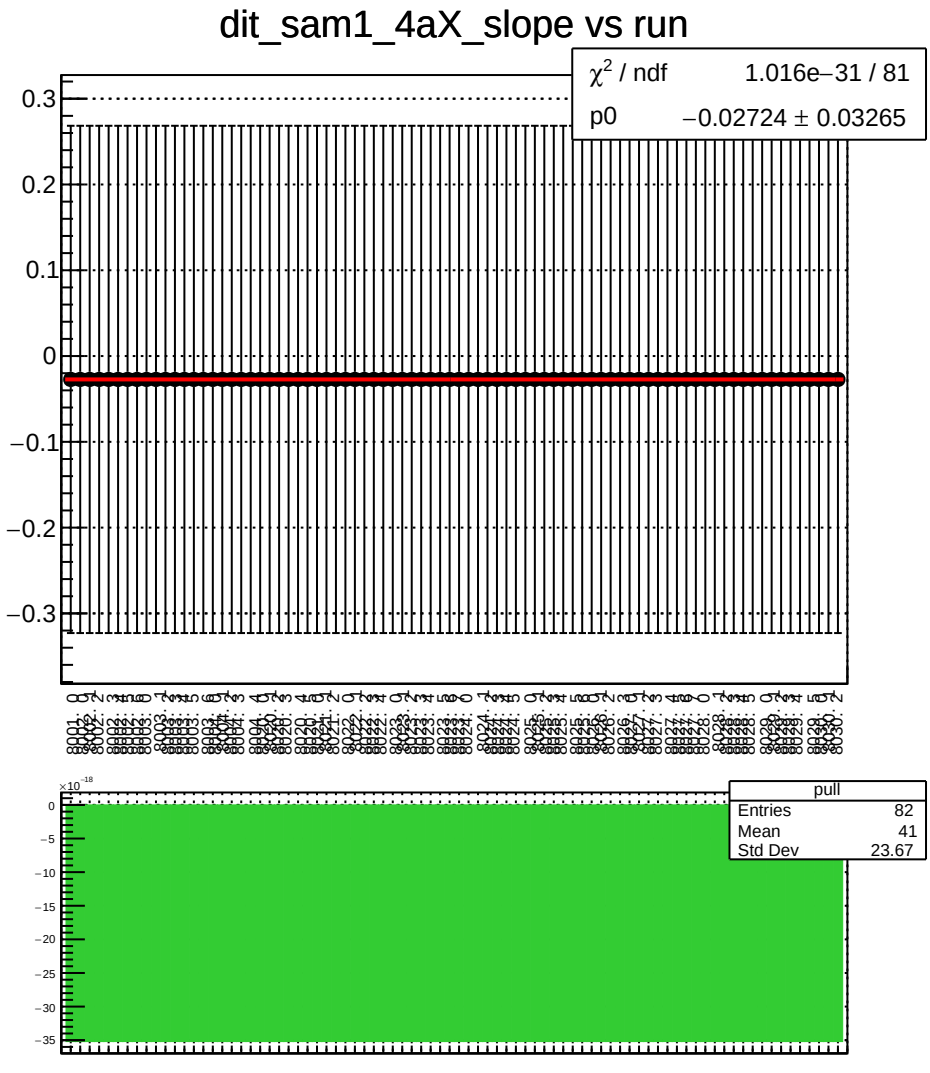

dit_atr2_11X12X_slope vs run
χ² / ndf 1.277e−25 / 81
p0 −300.6 ± 0.1591
−299
−299.5
−300
−300.5
−301
−301.5
−302
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
−40
pull1D
Entries 82
Mean −3.946e−14
Std Dev1.846e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

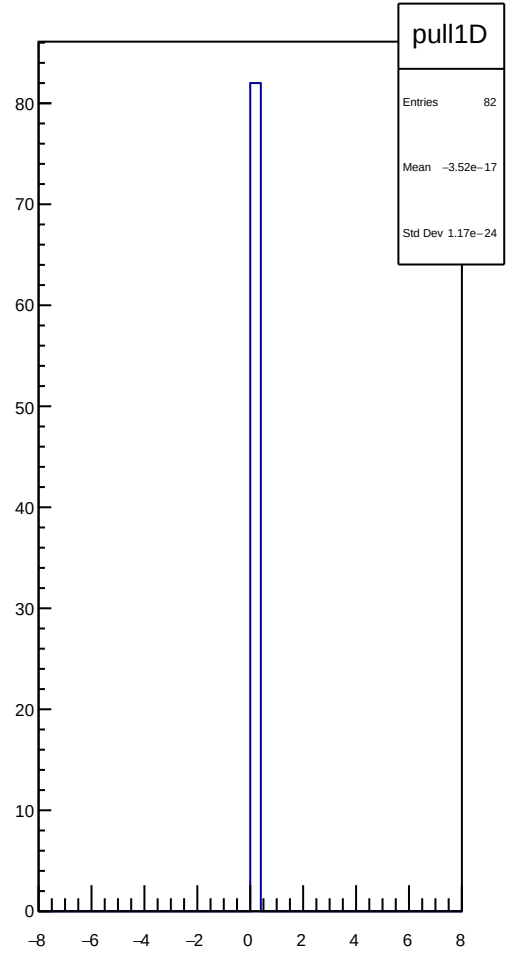

dit_atr2_4aY_slope vs run
χ² / ndf 1.856e−26 / 81
p0 −58.77 ± 0.5737
−54
−56
−58
−60
−62
−64
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14

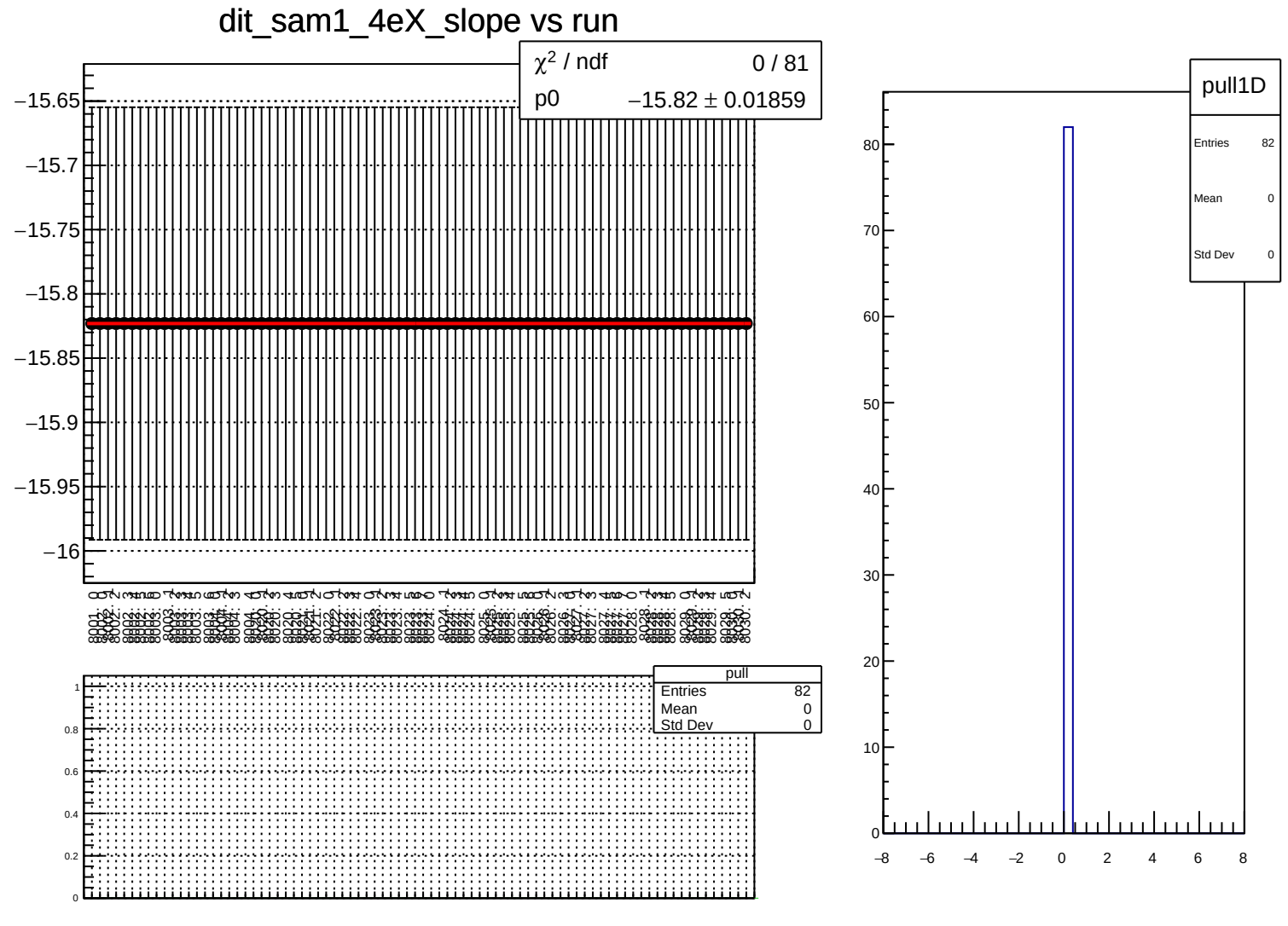

pull1D
Entries 82
Mean −1.504e−14
Std Dev5.187e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

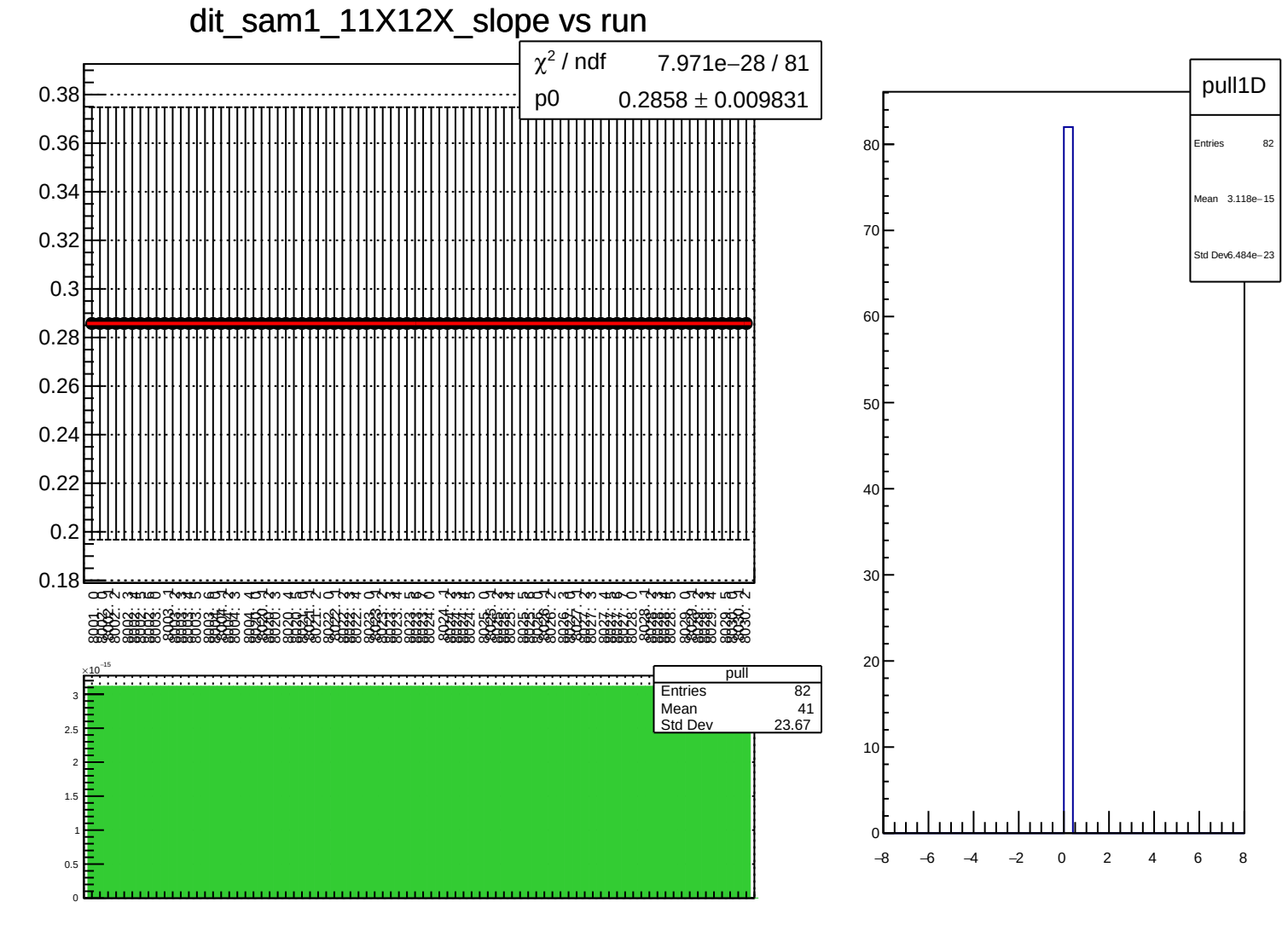

dit_atr2_4eY_slope vs run
χ² / ndf 3.3e−25 / 81
p0 198 ± 0.5442
202
200
198
196
194
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60

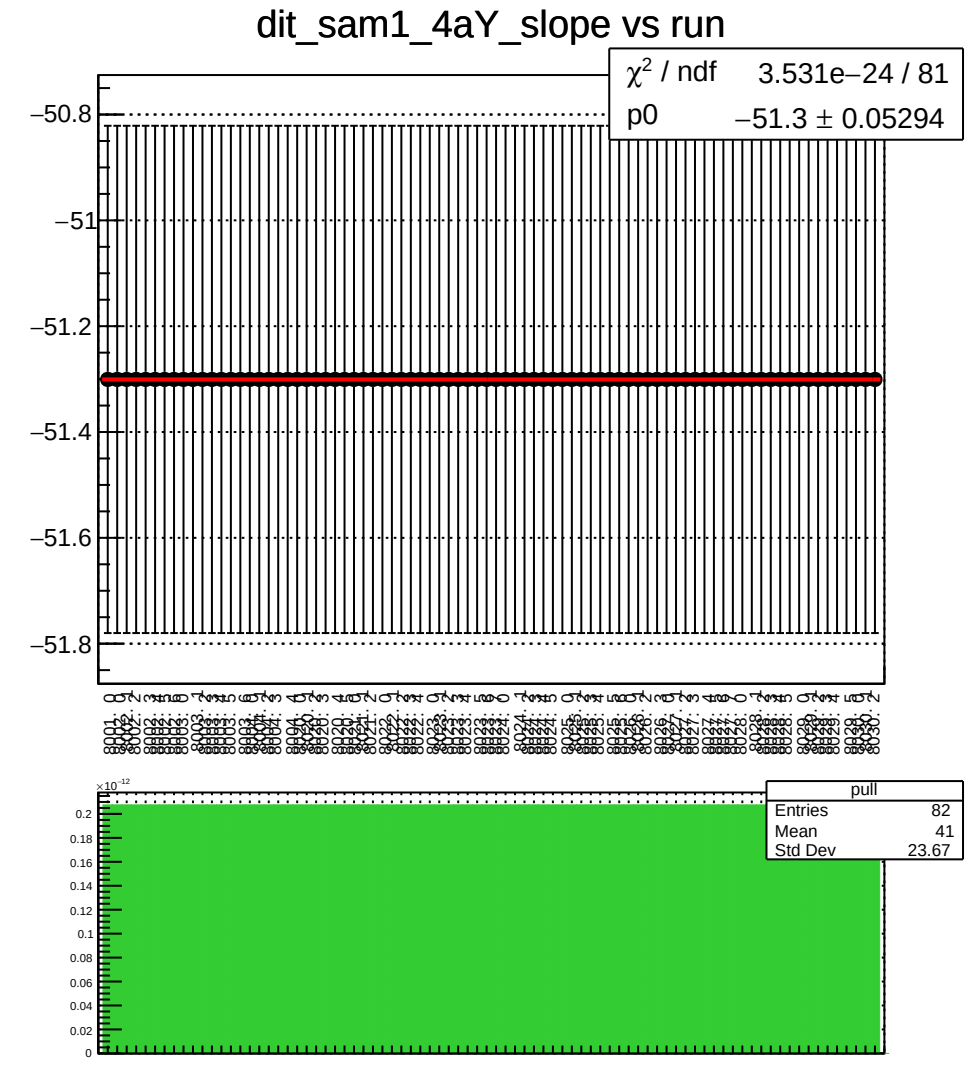

pull1D
Entries 82
Mean −6.344e−14
Std Dev3.281e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

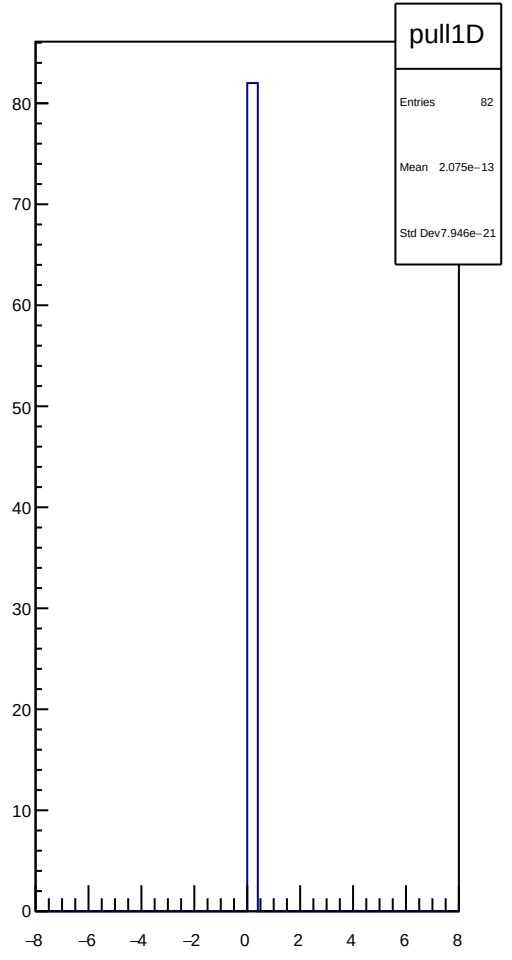

dit_sam1_4aX_slope vs run
χ² / ndf 1.016e−31 / 81
p0 −0.02724 ± 0.03265
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁸
0
−5
−10
−15
−20
−25
−30
−35

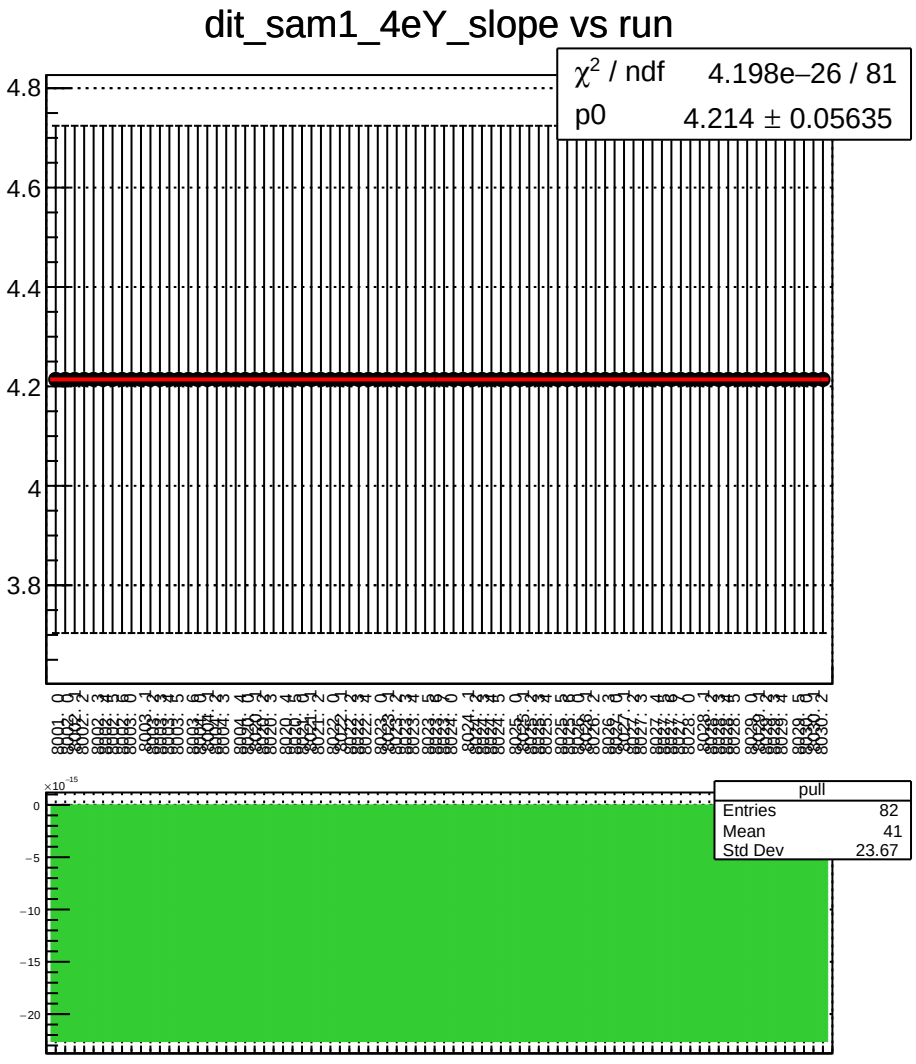

pull1D
Entries 82
Mean −3.52e−17
Std Dev 1.17e−24
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

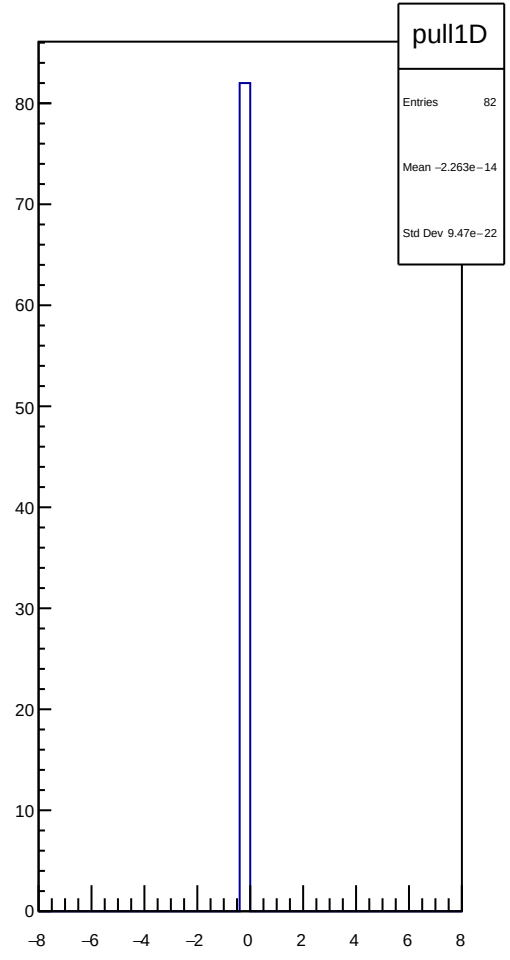

dit_sam1_4eX_slope vs run
χ² / ndf 0 / 81
p0 −15.82 ± 0.01859
−15.65
−15.7
−15.75
−15.8
−15.85
−15.9
−15.95
−16
pull
Entries 82
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 82
Mean 0
Std Dev 0
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

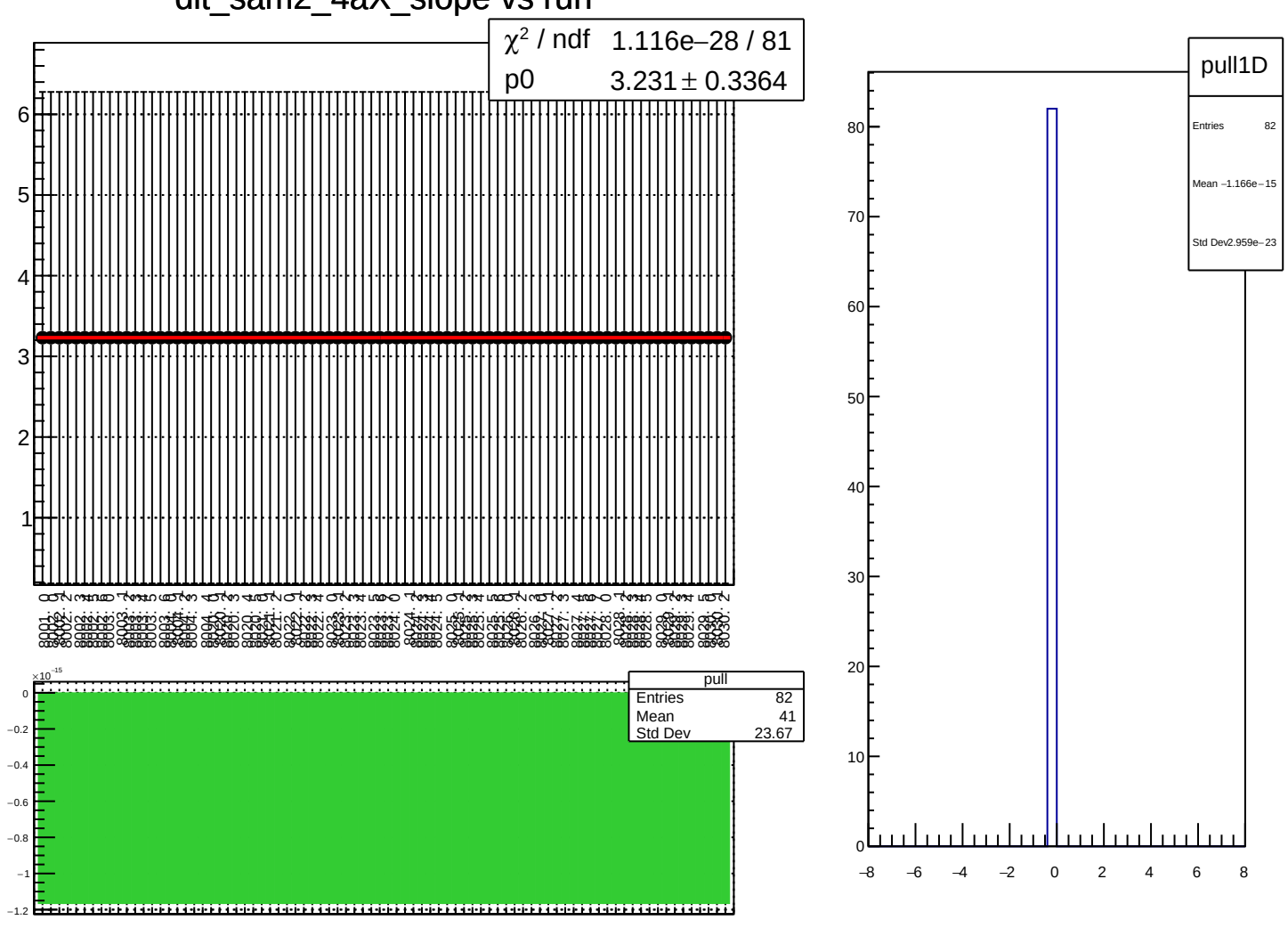

dit_sam1_11X12X_slope vs run
χ² / ndf 7.971e−28 / 81
p0 0.2858 ± 0.009831
pull
Entries 82
Mean 41
Std Dev 23.67
pull1D
Entries 82
Mean 3.118e−15
Std Dev 6.484e−23

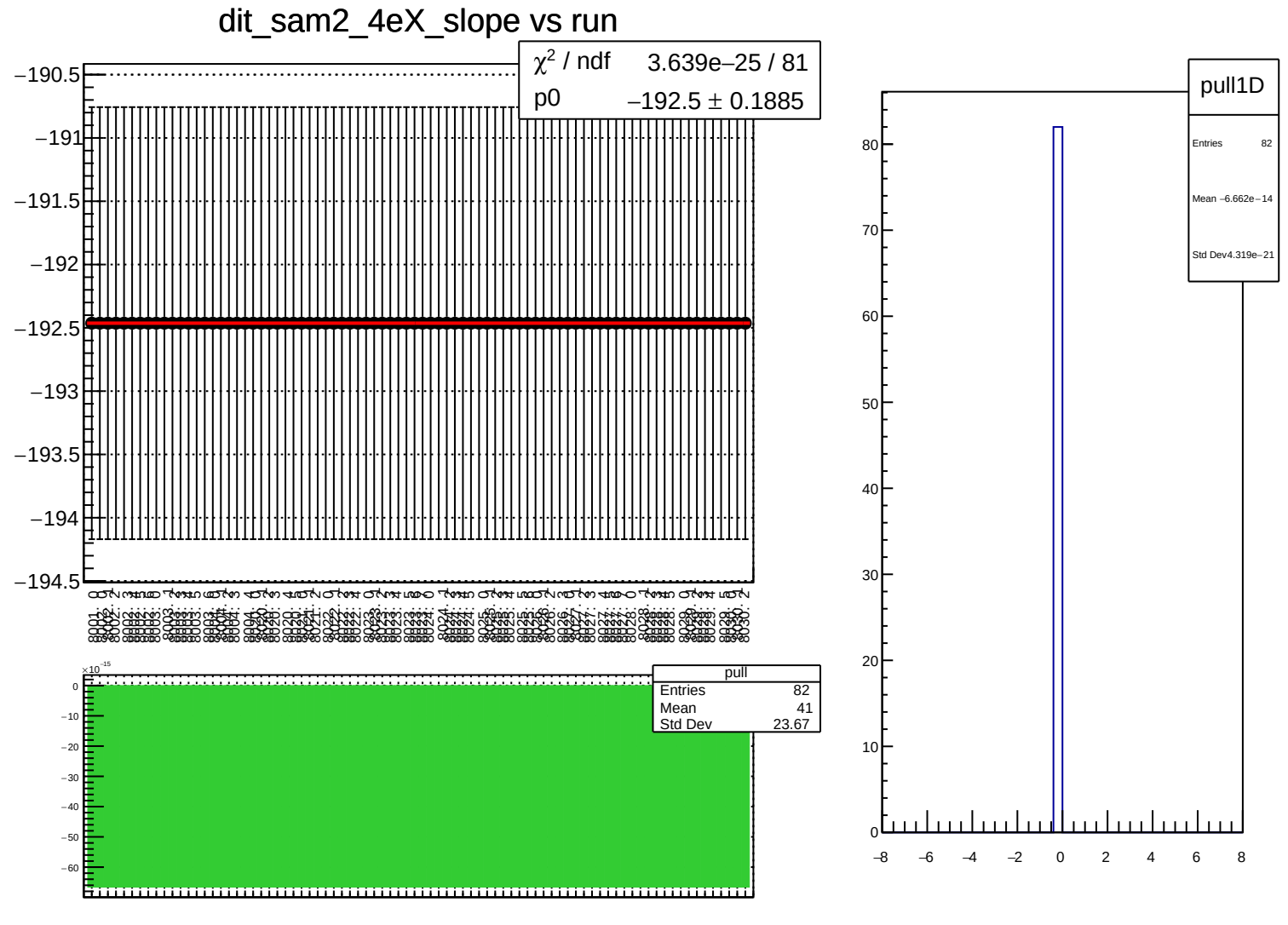

dit_sam1_4aY_slope vs run
χ² / ndf 3.531e−24 / 81
p0 −51.3 ± 0.05294
−50.8
−51
−51.2
−51.4
−51.6
−51.8
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹²
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

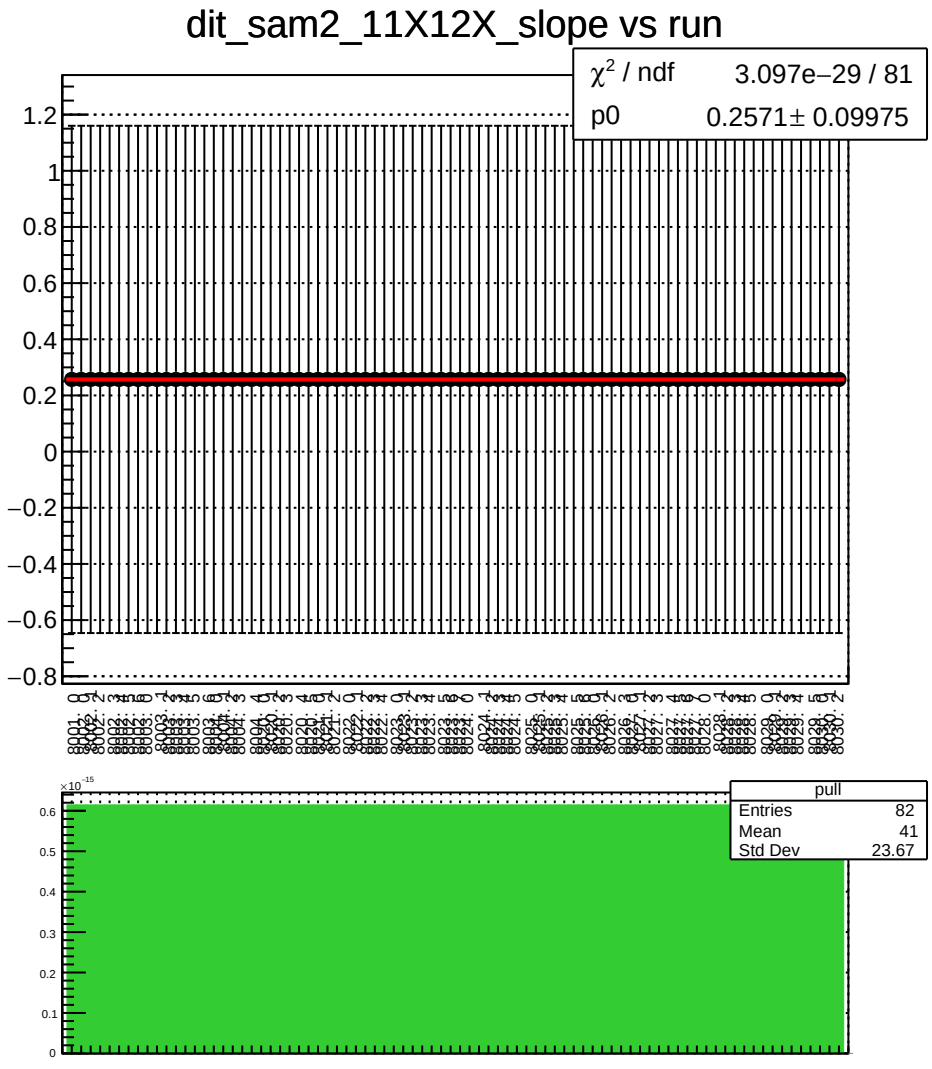

pull1D
Entries 82
Mean 2.075e−13
Std Dev7.946e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

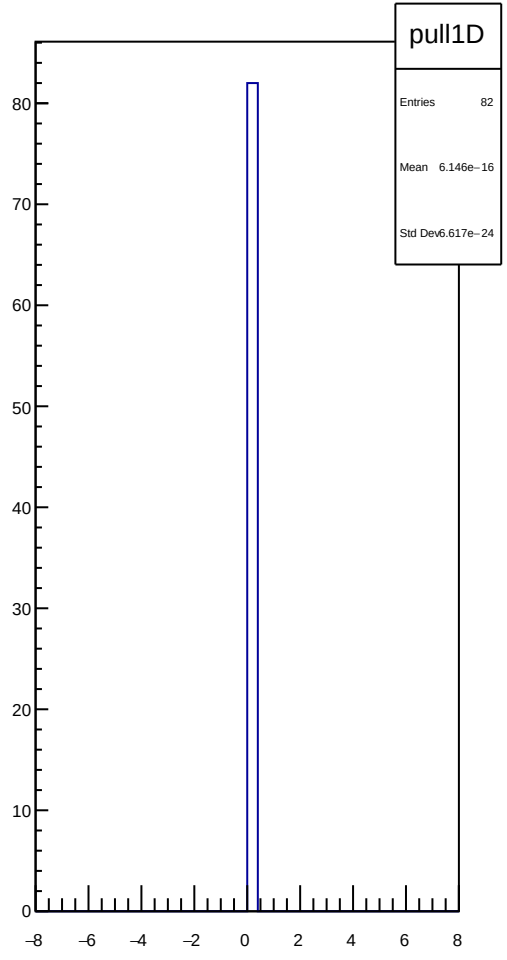

dit_sam1_4eY_slope vs run
χ² / ndf 4.198e−26 / 81
p0 4.214 ± 0.05635
4.8
4.6
4.4
4.2
4
3.8
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
0
−5
−10
−15
−20

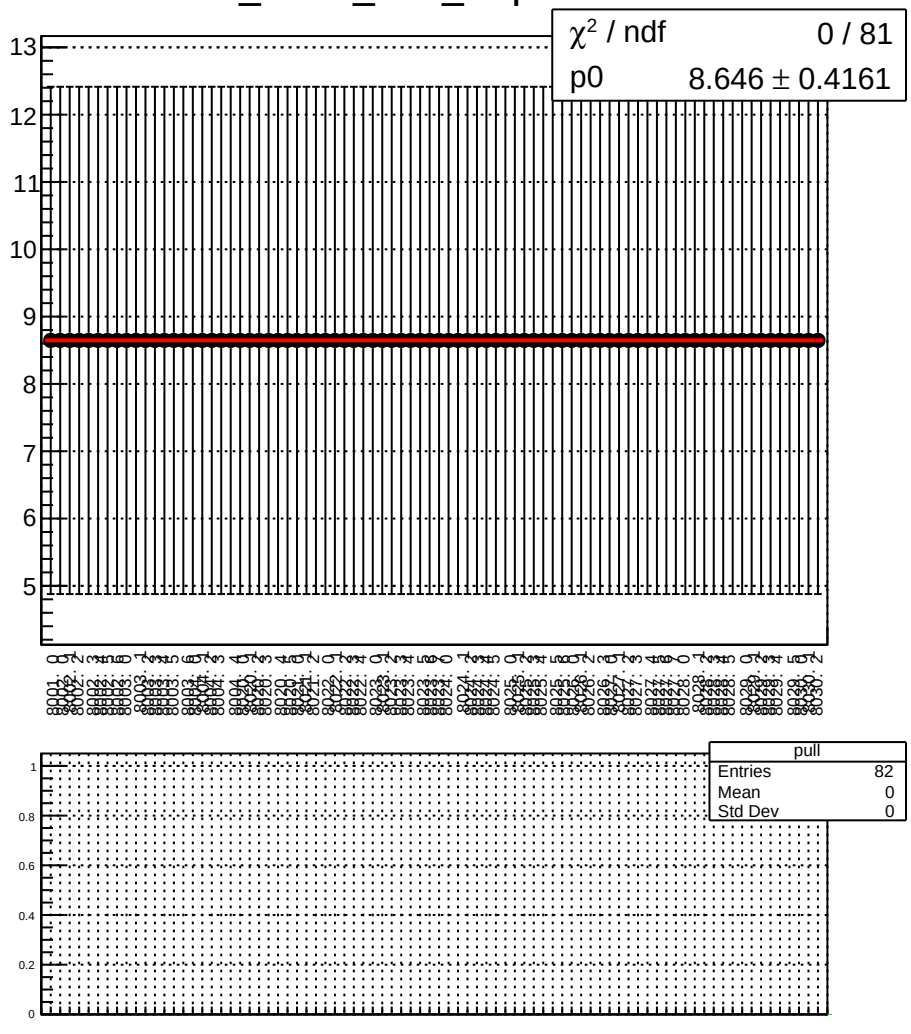

pull1D
Entries 82
Mean −2.263e−14
Std Dev 9.47e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

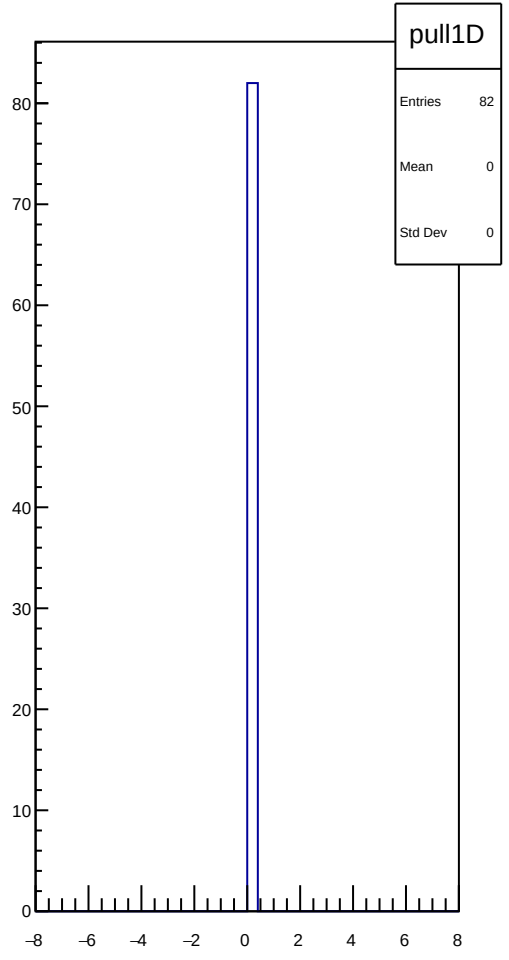

dit_sam2_4aX_slope vs run
χ^2 / ndf 1.116e−28 / 81
p0 3.231 ± 0.3364
pull
Entries 82
Mean 41
Std Dev 23.67
pull1D
Entries 82
Mean −1.166e−15
Std Dev 2.959e−23

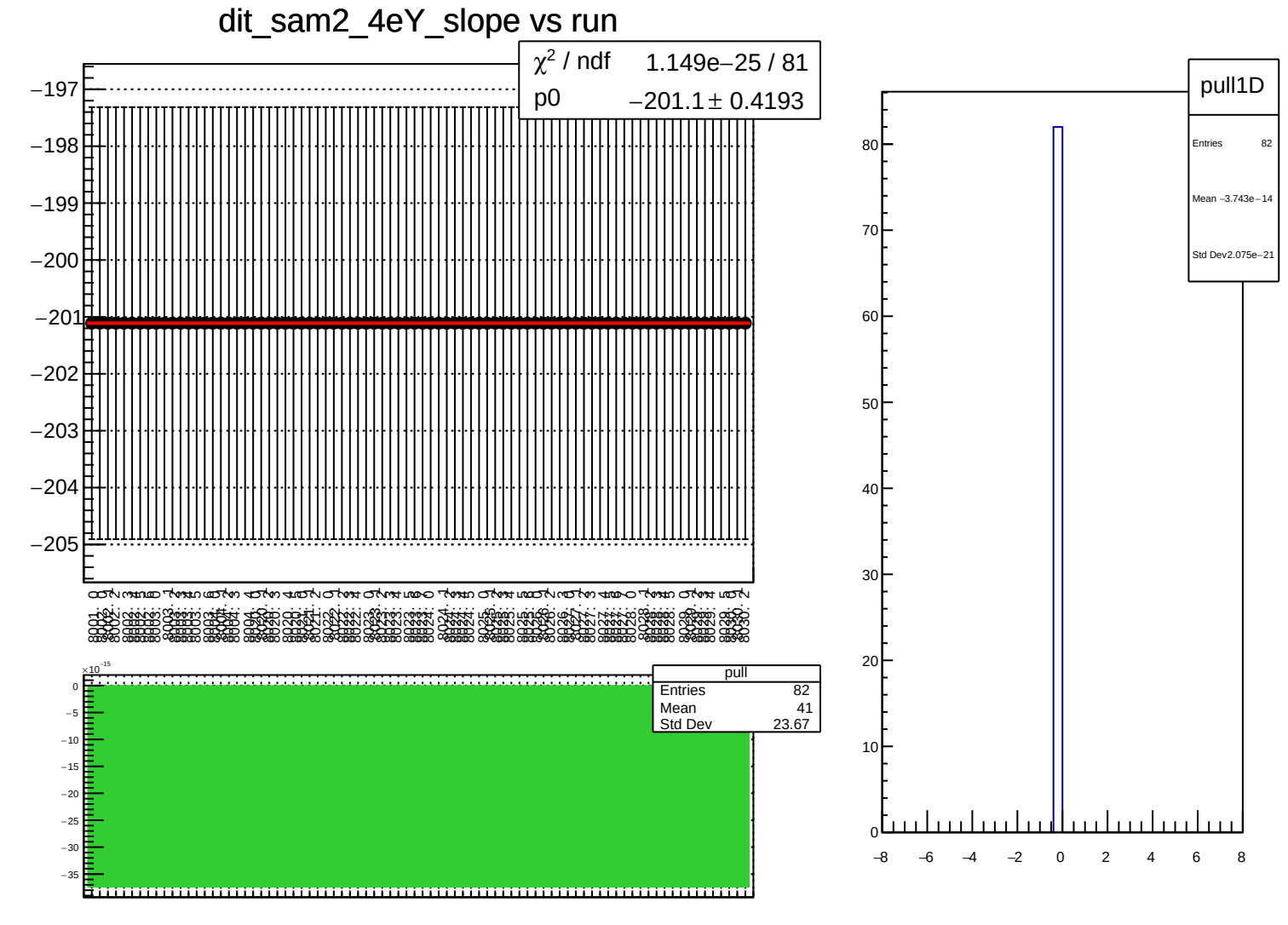

dit_sam2_4eX_slope vs run
χ² / ndf 3.639e−25 / 81
p0 −192.5 ± 0.1885
−190.5
−191
−191.5
−192
−192.5
−193
−193.5
−194
−194.5
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 82
Mean −6.662e−14
Std Dev4.319e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

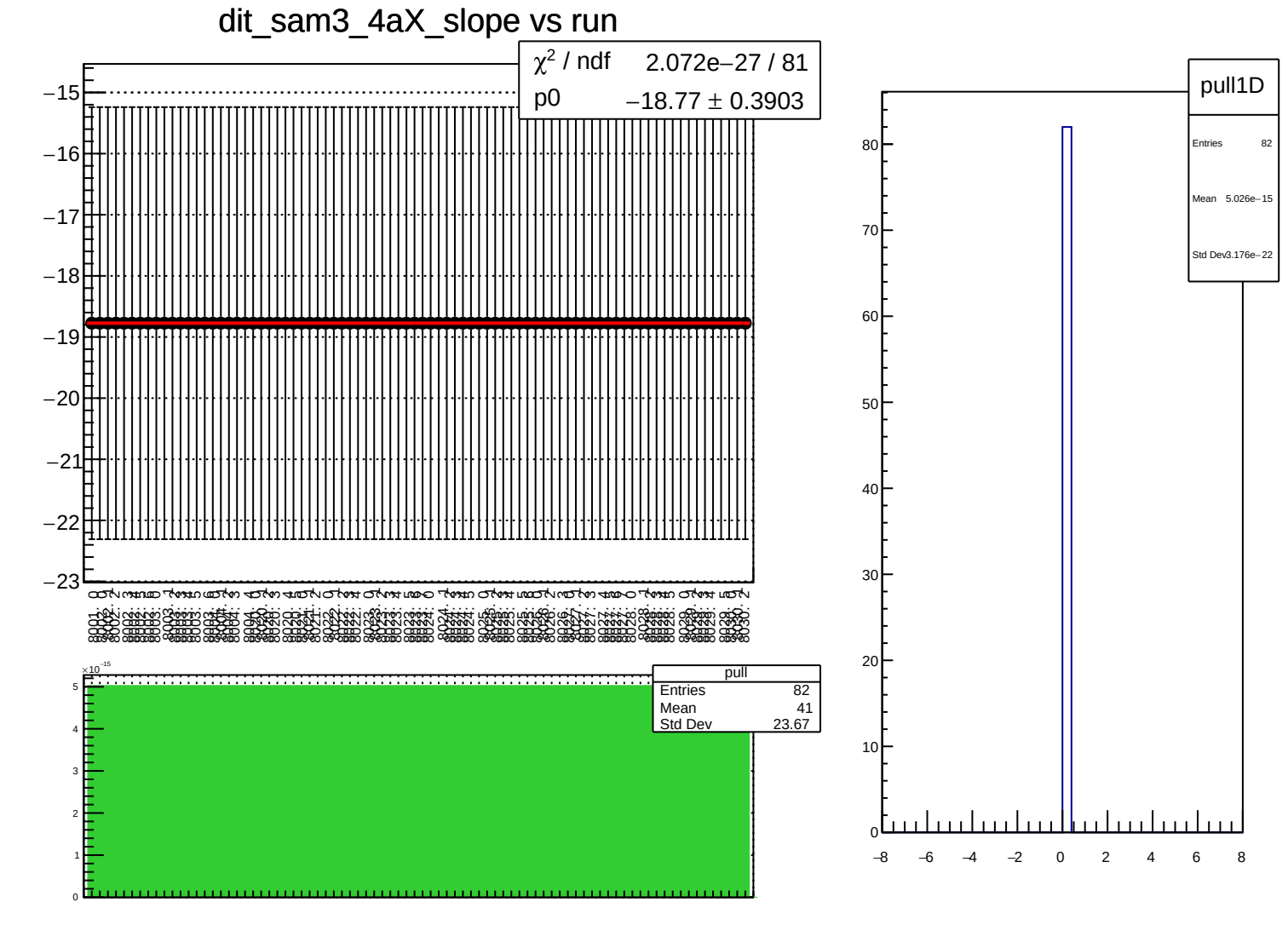

dit_sam2_11X12X_slope vs run
χ² / ndf 3.097e−29 / 81
p0 0.2571± 0.09975
pull
Entries 82
Mean 41
Std Dev 23.67

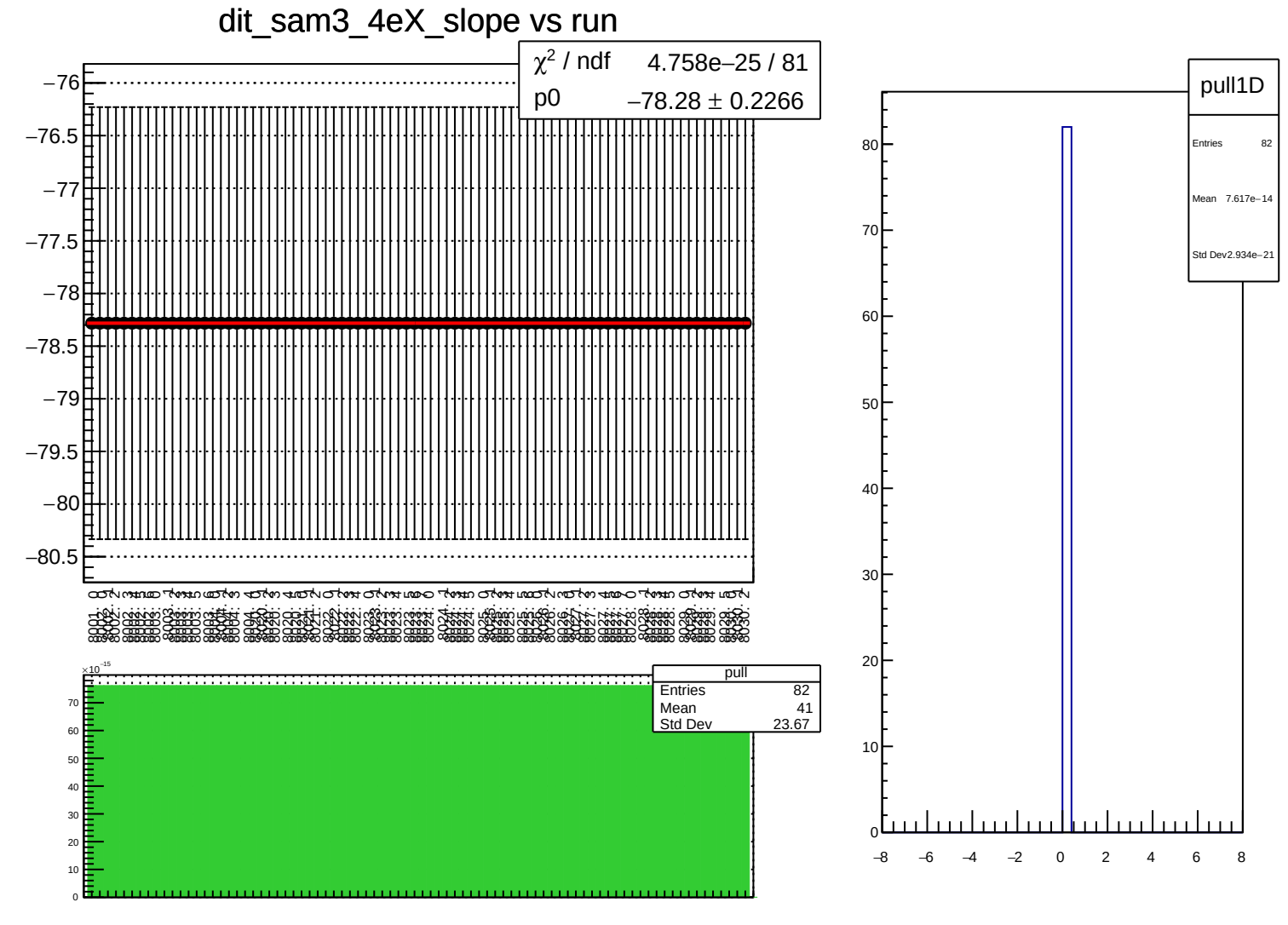

pull1D
Entries 82
Mean 6.146e−16
Std Dev 6.617e−24

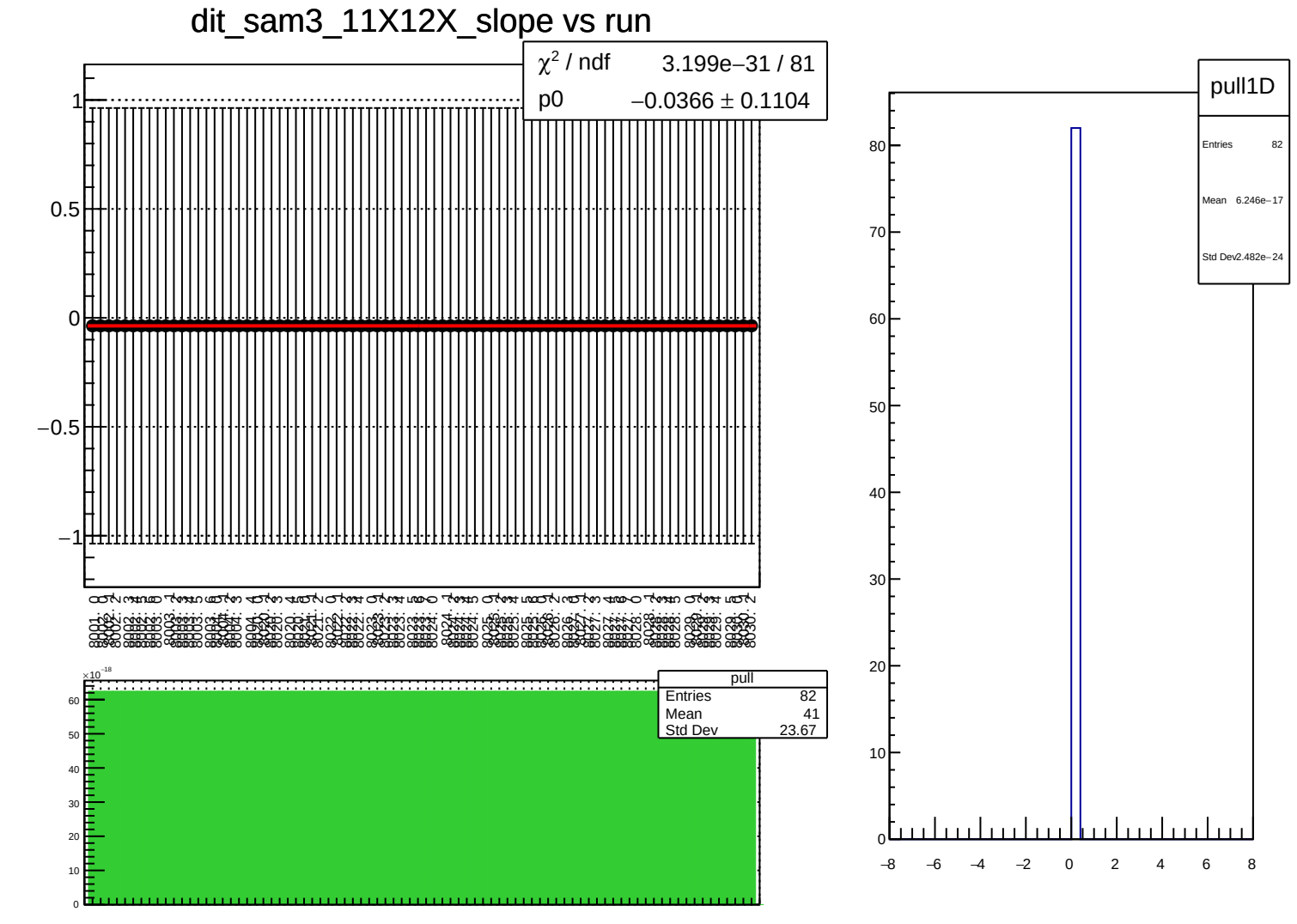

dit_sam2_4aY_slope vs run
χ² / ndf 0 / 81
p0 8.646 ± 0.4161
pull
Entries 82
Mean 0
Std Dev 0

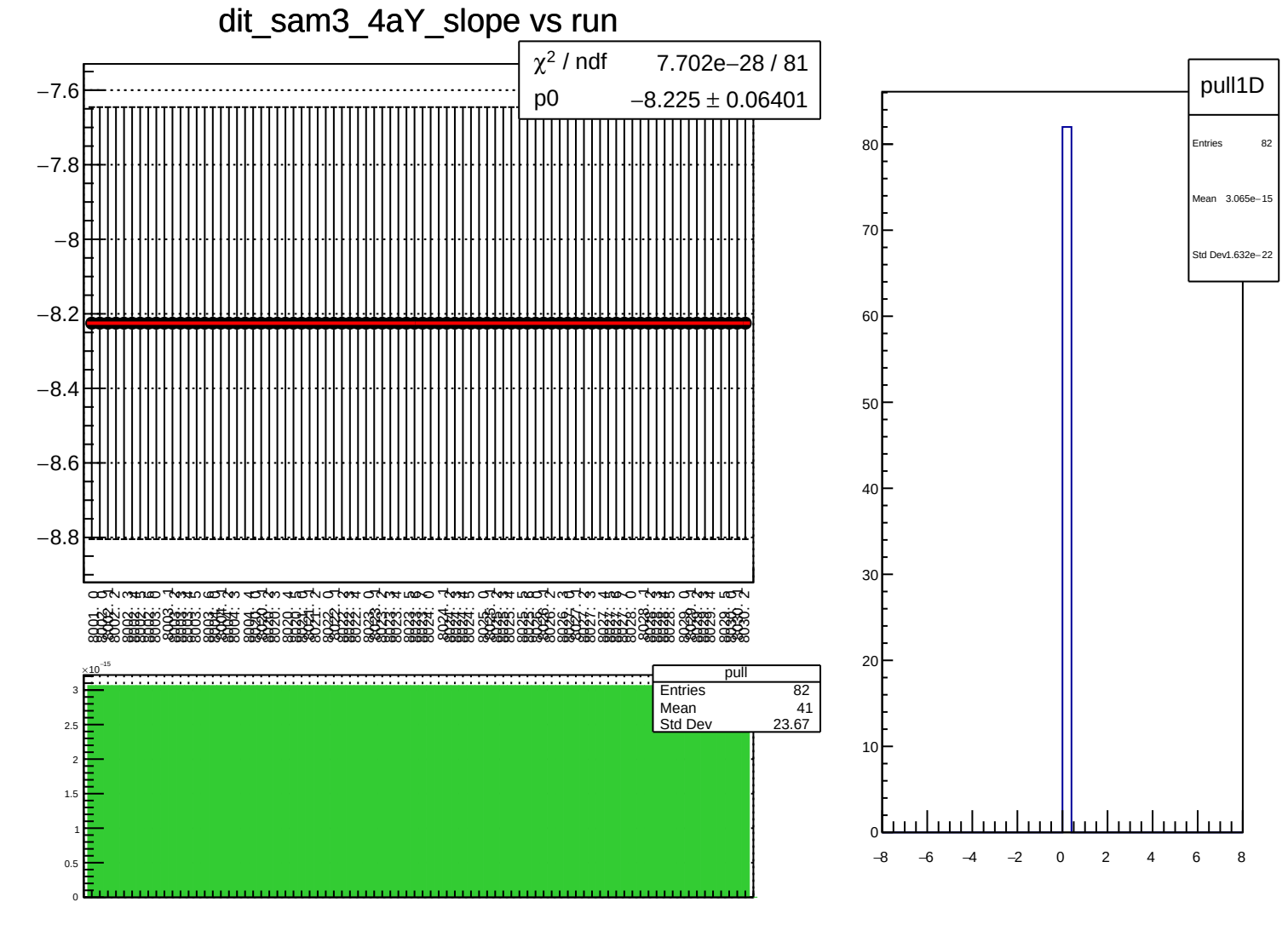

pull1D
Entries 82
Mean 0
Std Dev 0

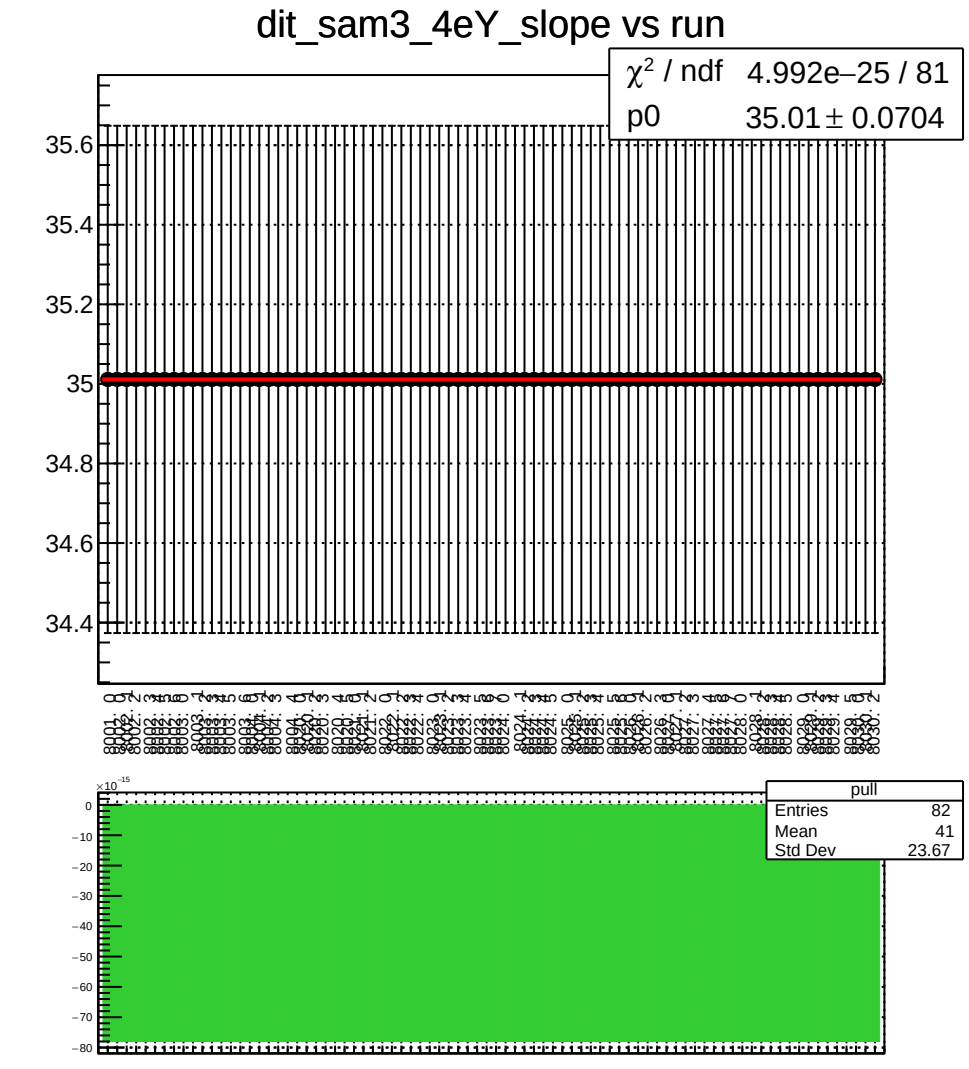

dit_sam2_4eY_slope vs run
χ² / ndf 1.149e−25 / 81
p0 −201.1 ± 0.4193
−197
−198
−199
−200
−201
−202
−203
−204
−205
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
pull1D
Entries 82
Mean −3.743e−14
Std Dev2.075e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

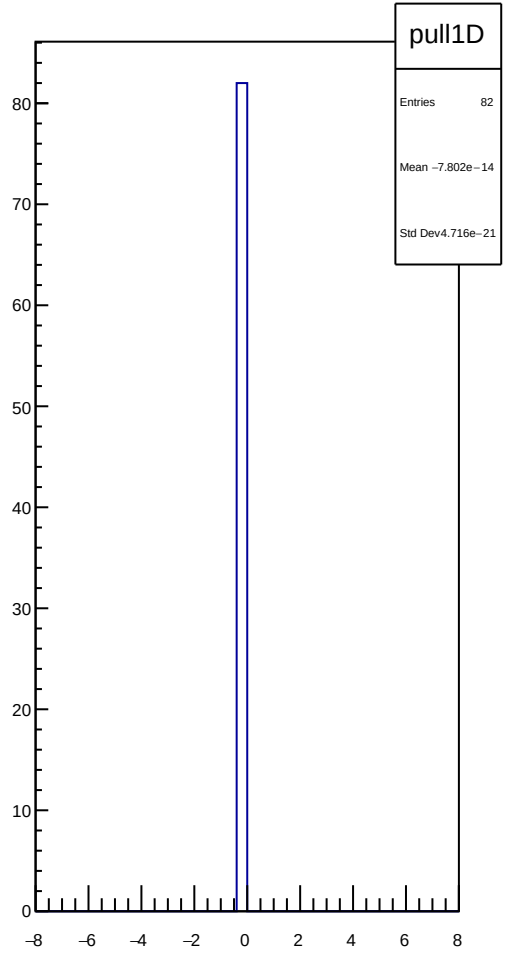

dit_sam3_4aX_slope vs run
χ² / ndf 2.072e−27 / 81
p0 −18.77 ± 0.3903
pull
Entries 82
Mean 41
Std Dev 23.67
pull1D
Entries 82
Mean 5.026e−15
Std Dev 3.176e−22

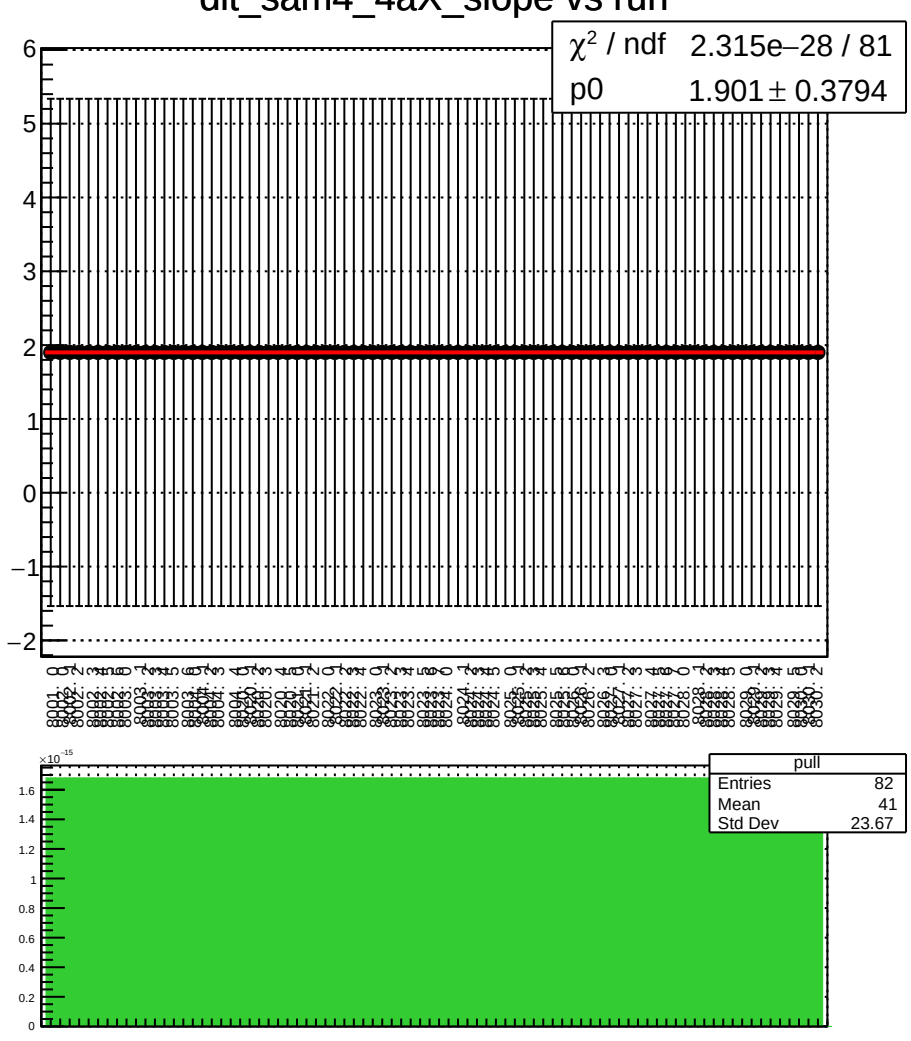

dit_sam3_4eX_slope vs run
χ² / ndf 4.758e−25 / 81
p0 −78.28 ± 0.2266
−76
−76.5
−77
−77.5
−78
−78.5
−79
−79.5
−80
−80.5
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
70
60
50
40
30
20
10
0
pull1D
Entries 82
Mean 7.617e−14
Std Dev2.934e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

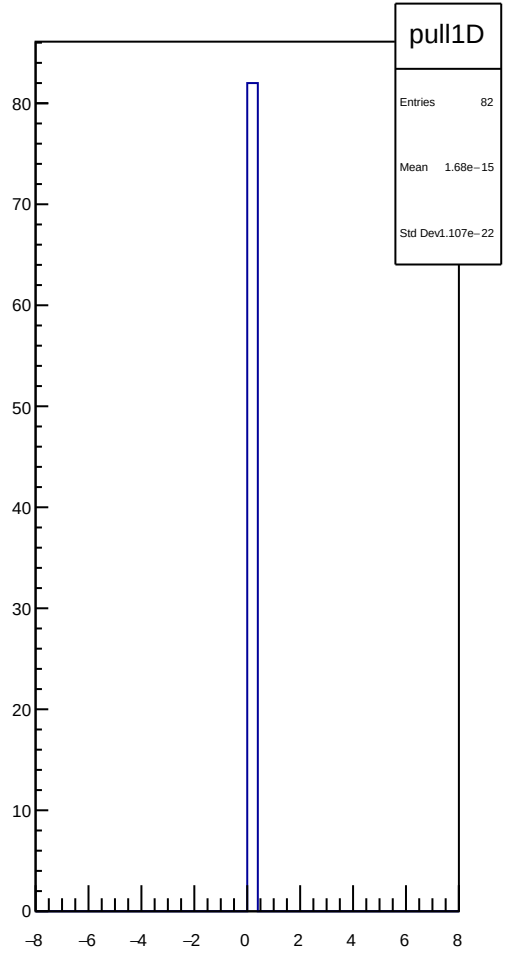

dit_sam3_11X12X_slope vs run
χ² / ndf 3.199e−31 / 81
p0 −0.0366 ± 0.1104
pull
Entries 82
Mean 41
Std Dev 23.67
pull1D
Entries 82
Mean 6.246e−17
Std Dev2.482e−24

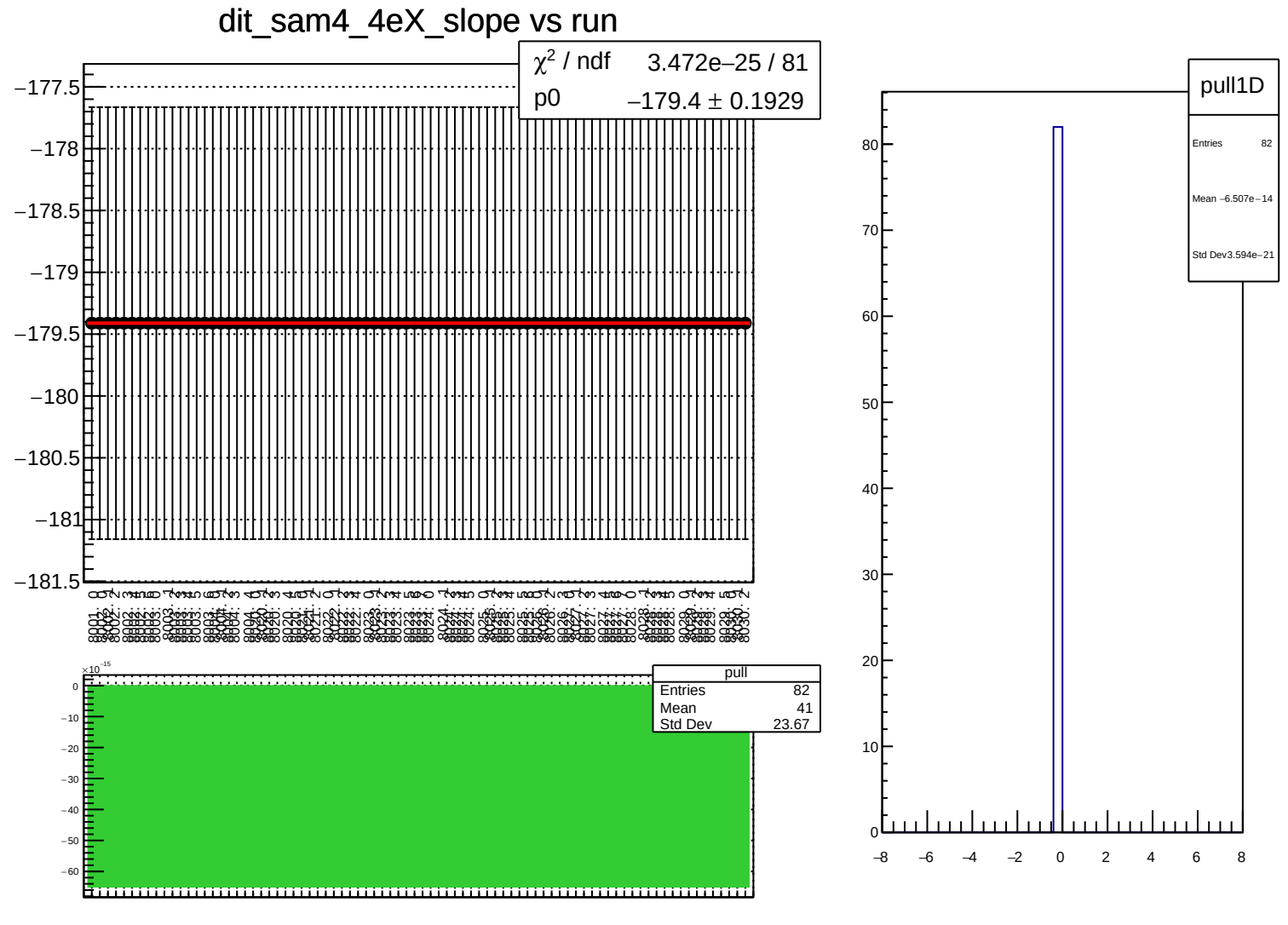

dit_sam3_4aY_slope vs run
χ² / ndf 7.702e−28 / 81
p0 −8.225 ± 0.06401
−7.6
−7.8
−8
−8.2
−8.4
−8.6
−8.8
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0
pull1D
Entries 82
Mean 3.065e−15
Std Dev1.632e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

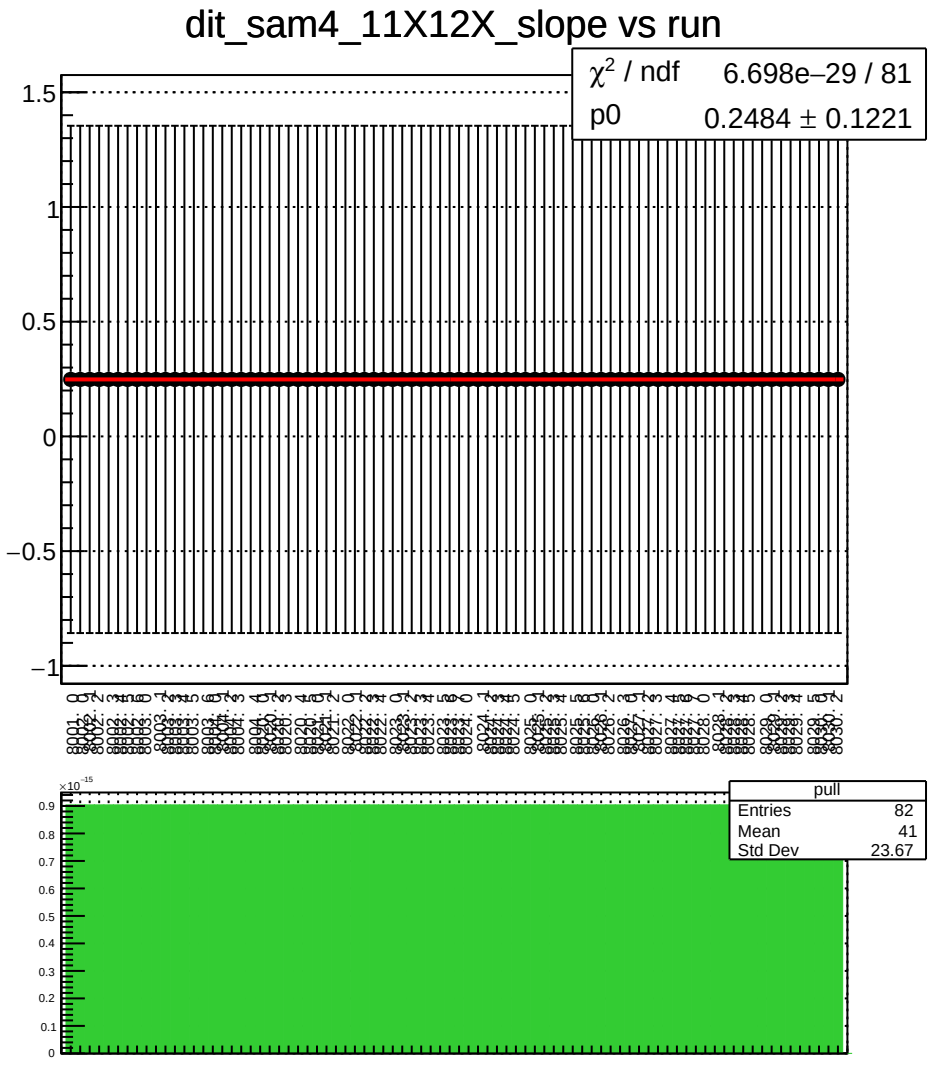

dit_sam3_4eY_slope vs run
χ² / ndf 4.992e−25 / 81
p0 35.01 ± 0.0704
35.6
35.4
35.2
35
34.8
34.6
34.4
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
−80

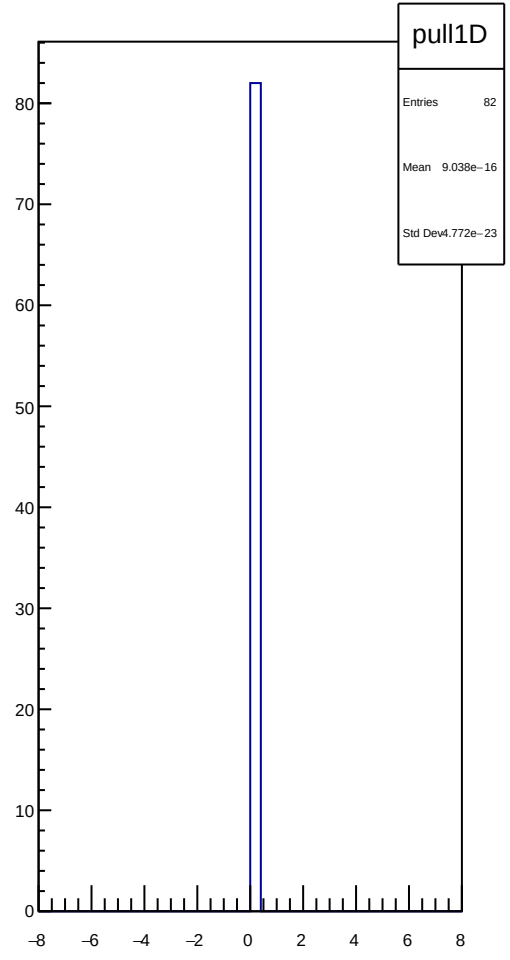

pull1D
Entries 82
Mean −7.802e−14
Std Dev 4.716e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

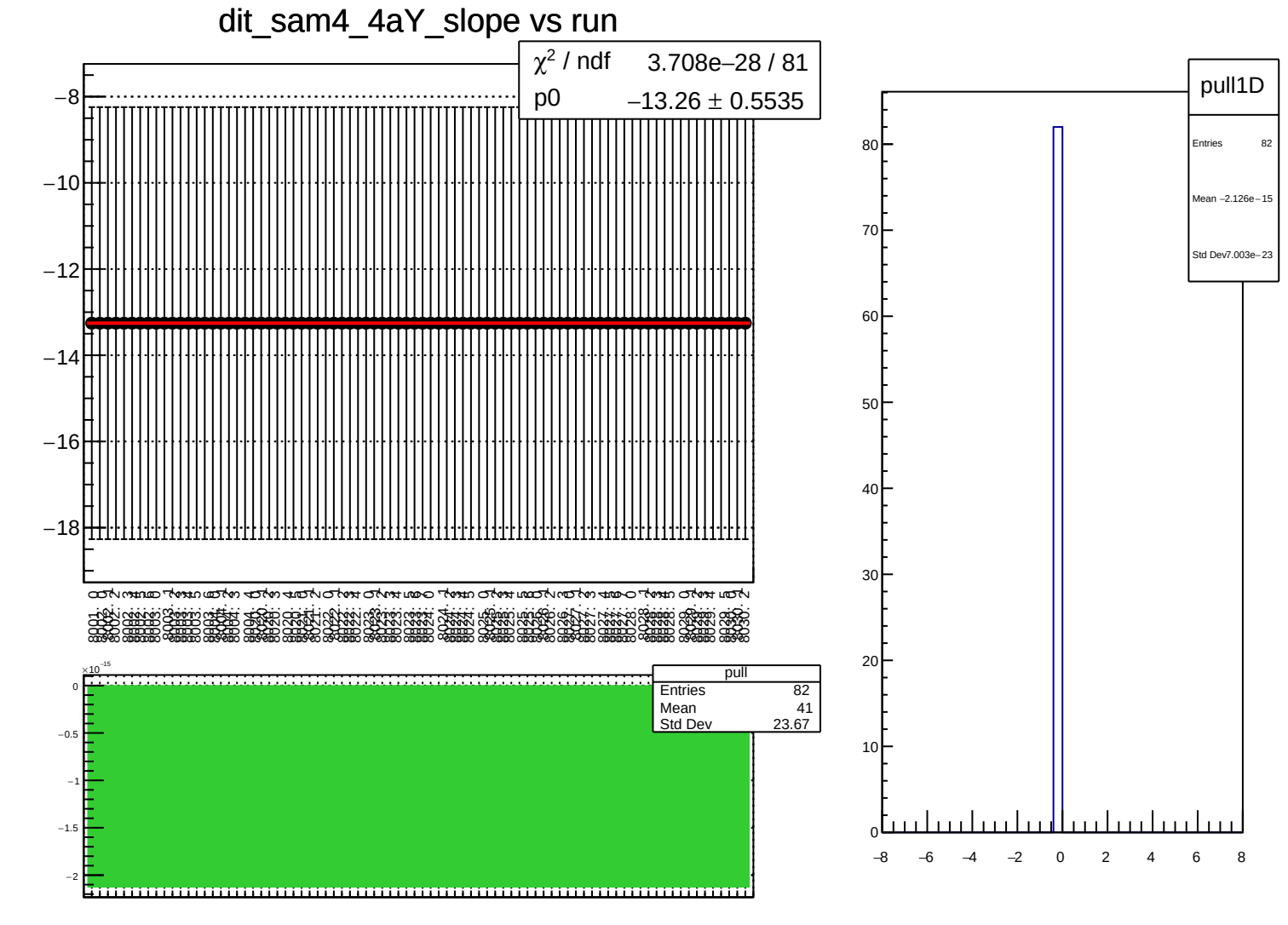

dit_sam4_4aX_slope vs run
χ² / ndf 2.315e−28 / 81
p0 1.901 ± 0.3794
pull
Entries 82
Mean 41
Std Dev 23.67

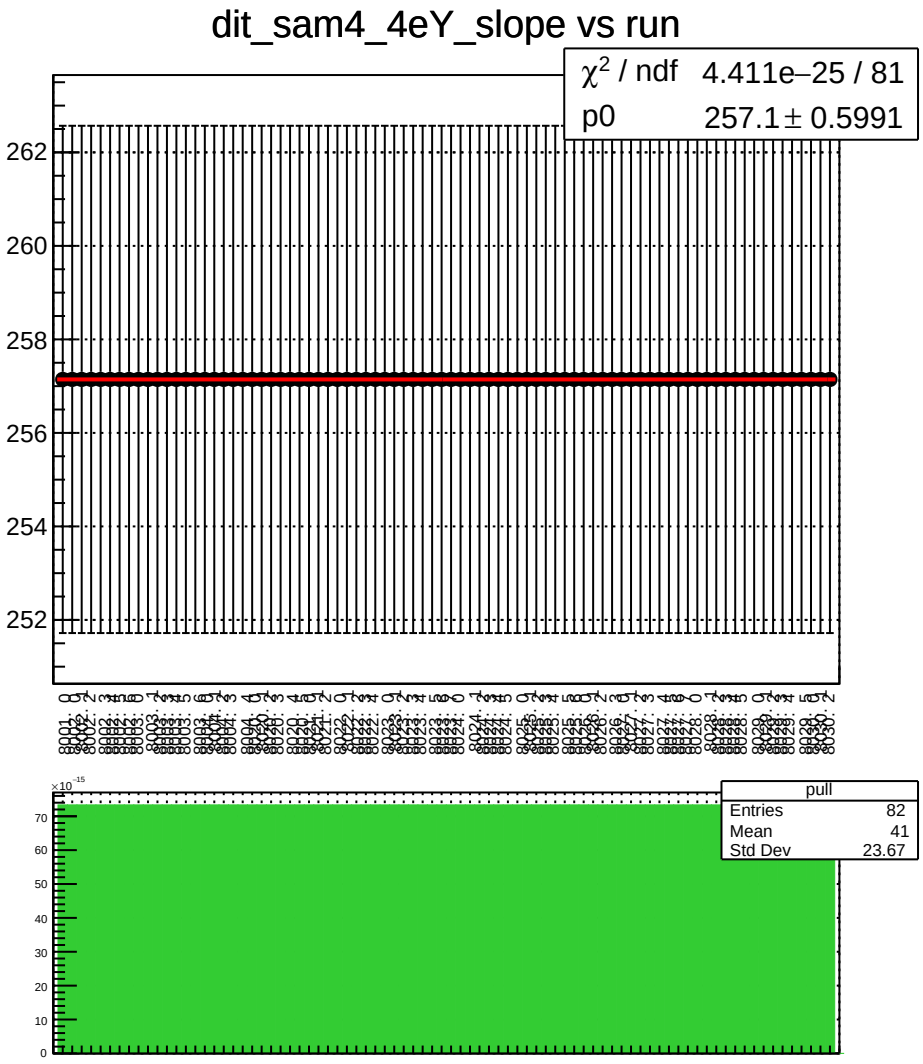

pull1D
Entries 82
Mean 1.68e−15
Std Dev1.107e−22

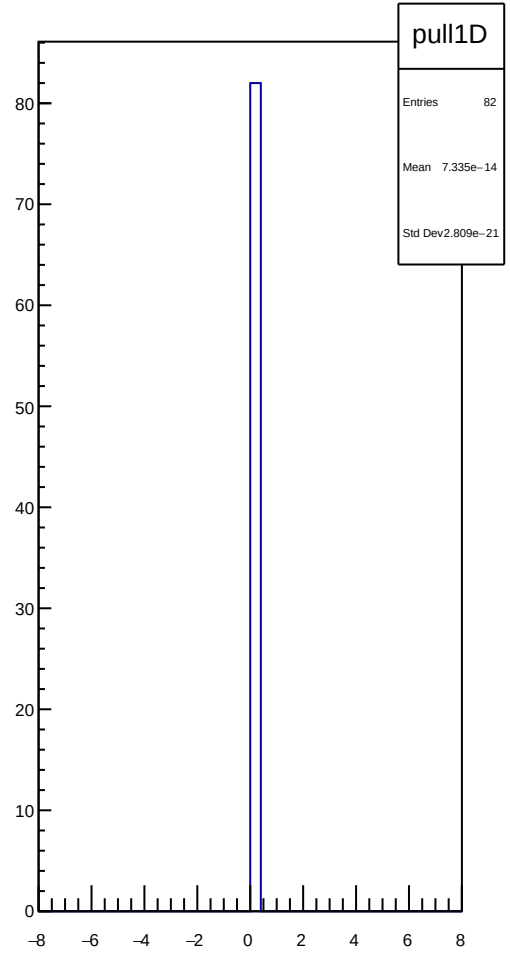

dit_sam4_4eX_slope vs run
χ² / ndf 3.472e−25 / 81
p0 −179.4 ± 0.1929
−177.5
−178
−178.5
−179
−179.5
−180
−180.5
−181
−181.5
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 82
Mean −6.507e−14
Std Dev3.594e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

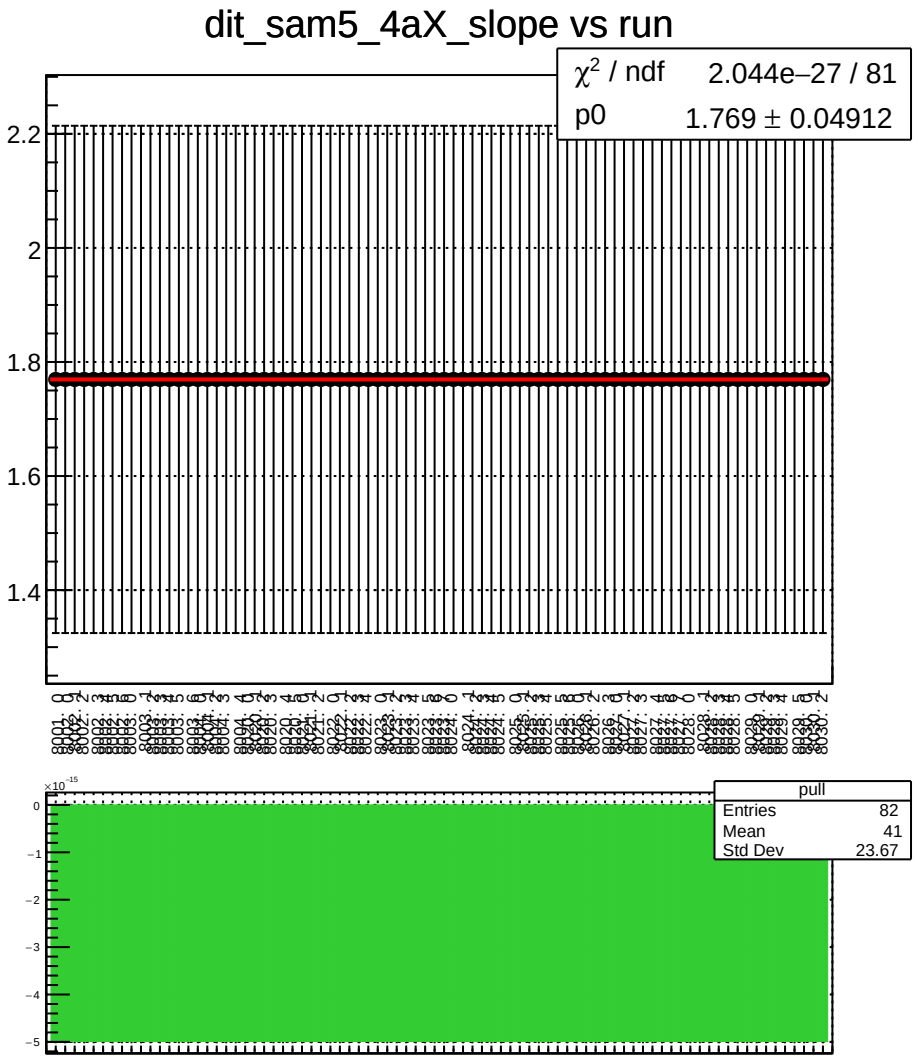

dit_sam4_11X12X_slope vs run
χ² / ndf 6.698e−29 / 81
p0 0.2484 ± 0.1221
pull
Entries 82
Mean 41
Std Dev 23.67

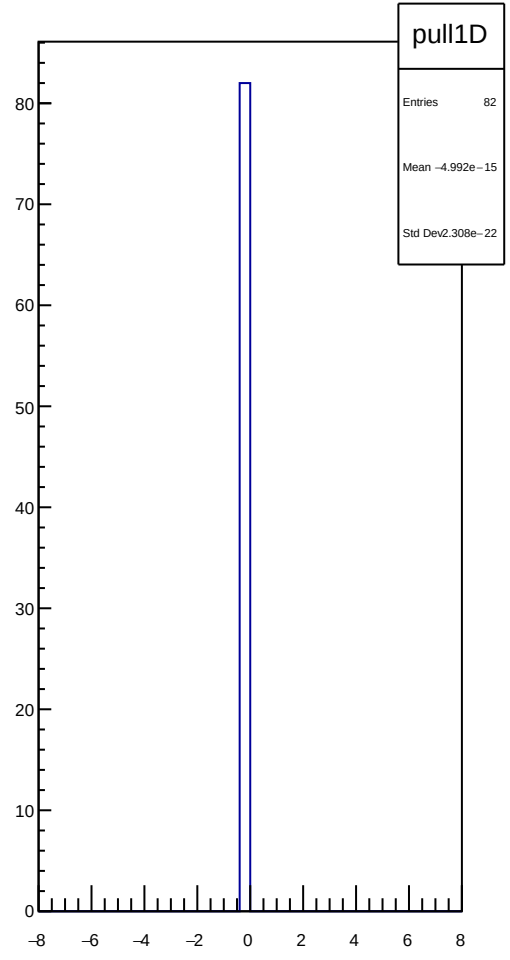

pull1D
Entries 82
Mean 9.038e−16
Std Dev4.772e−23

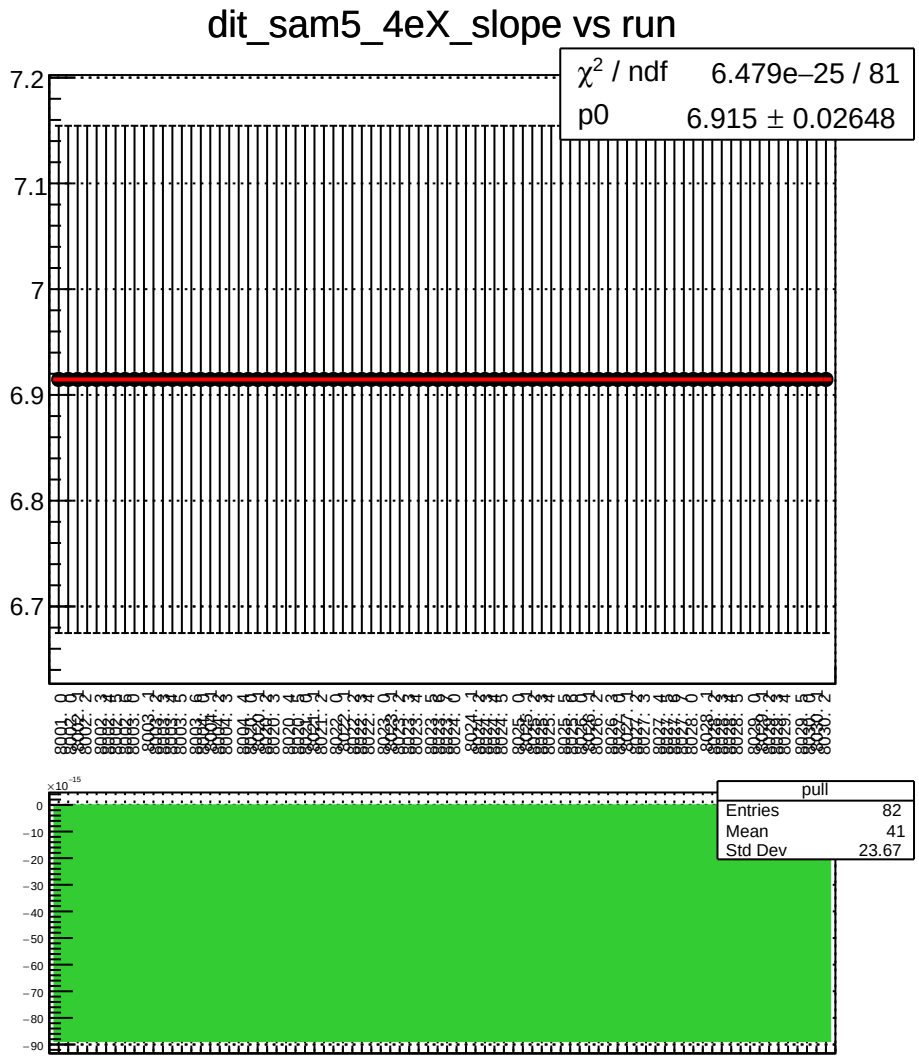

dit_sam4_4aY_slope vs run
χ² / ndf 3.708e−28 / 81
p0 −13.26 ± 0.5535
pull
Entries 82
Mean 41
Std Dev 23.67
pull1D
Entries 82
Mean −2.126e−15
Std Dev7.003e−23

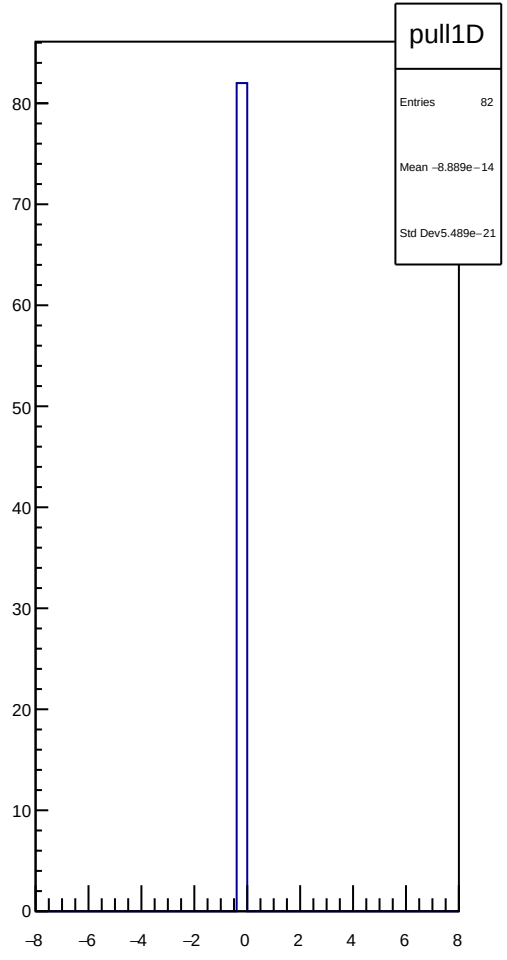

dit_sam4_4eY_slope vs run
χ² / ndf 4.411e−25 / 81
p0 257.1 ± 0.5991
262
260
258
256
254
252
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
70
60
50
40
30
20
10
0

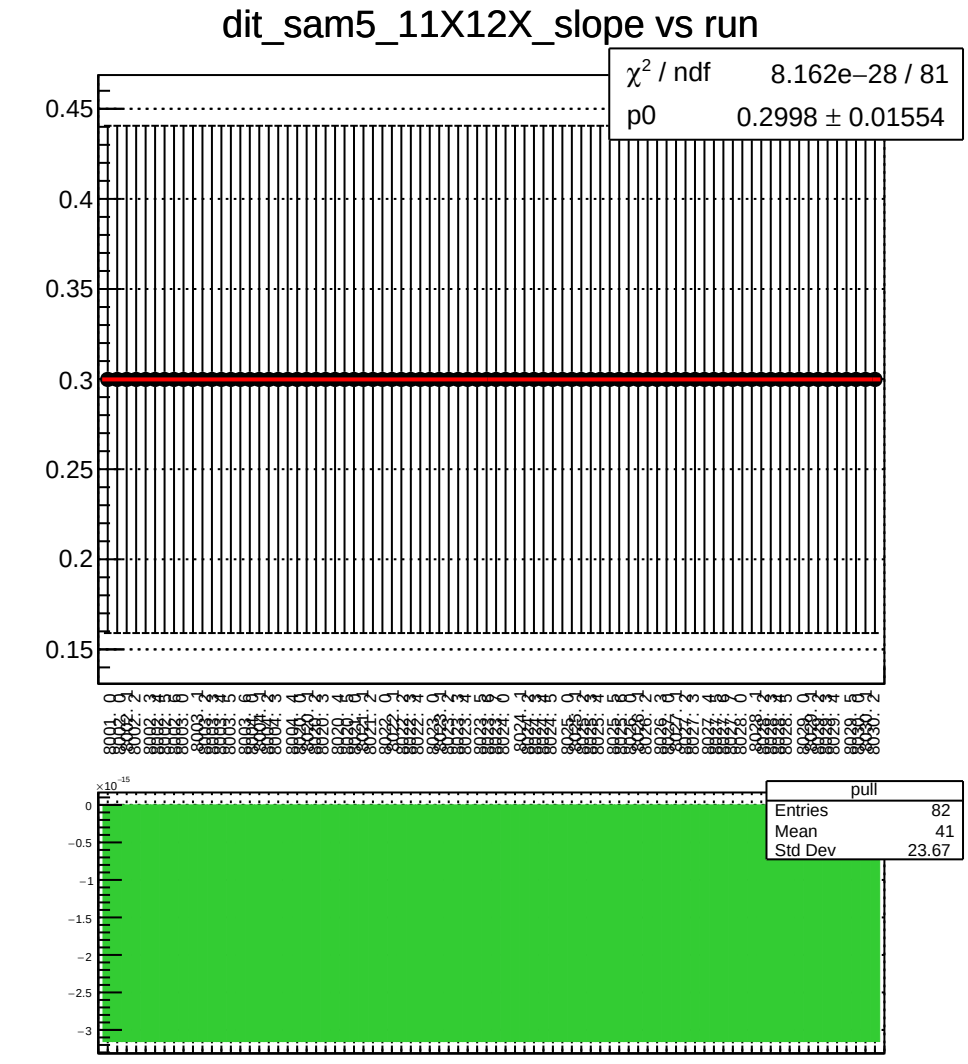

pull1D
Entries 82
Mean 7.335e−14
Std Dev2.809e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

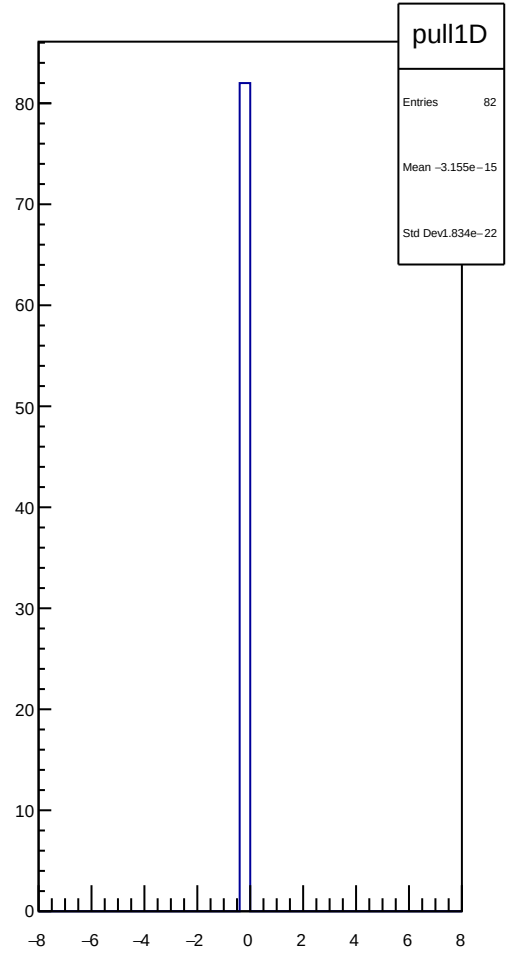

dit_sam5_4aX_slope vs run
χ² / ndf 2.044e−27 / 81
p0 1.769 ± 0.04912
2.2
2
1.8
1.6
1.4
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
0
−1
−2
−3
−4
−5

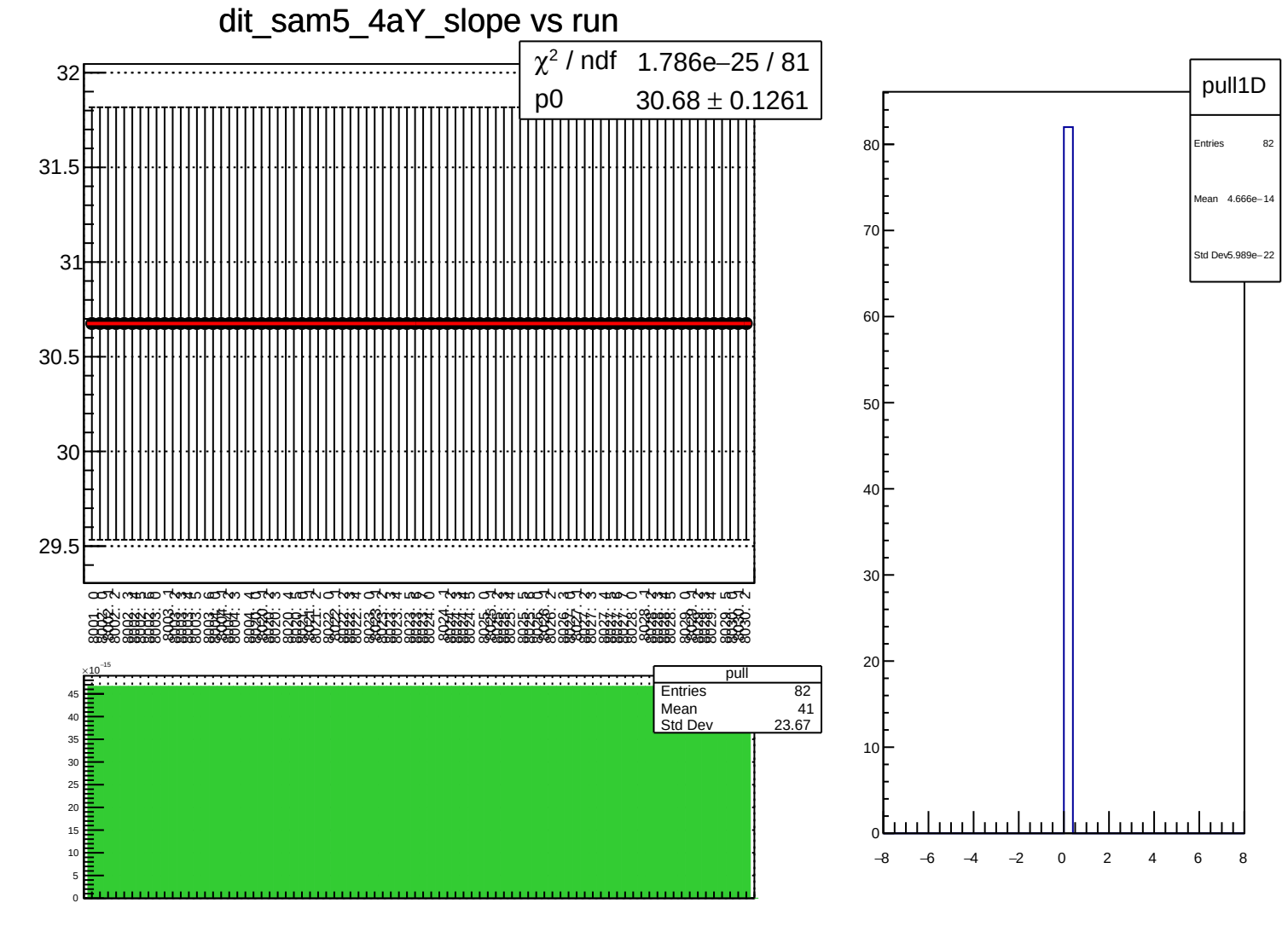

pull1D
Entries 82
Mean −4.992e−15
Std Dev 2.308e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

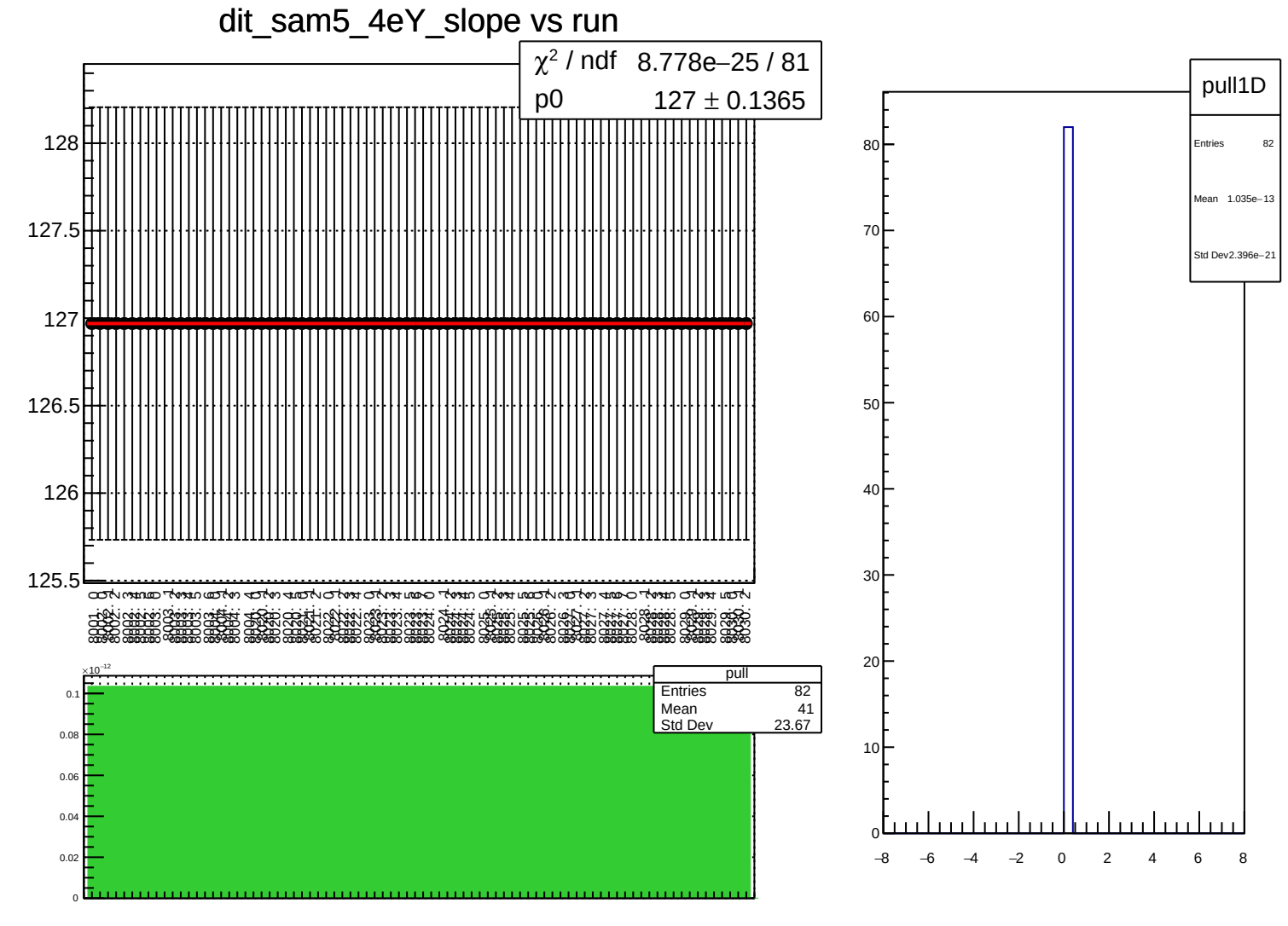

dit_sam5_4eX_slope vs run
χ² / ndf 6.479e−25 / 81
p0 6.915 ± 0.02648
7.2
7.1
7
6.9
6.8
6.7
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
0
−10
−20
−30
−40
−50
−60
−70
−80
−90

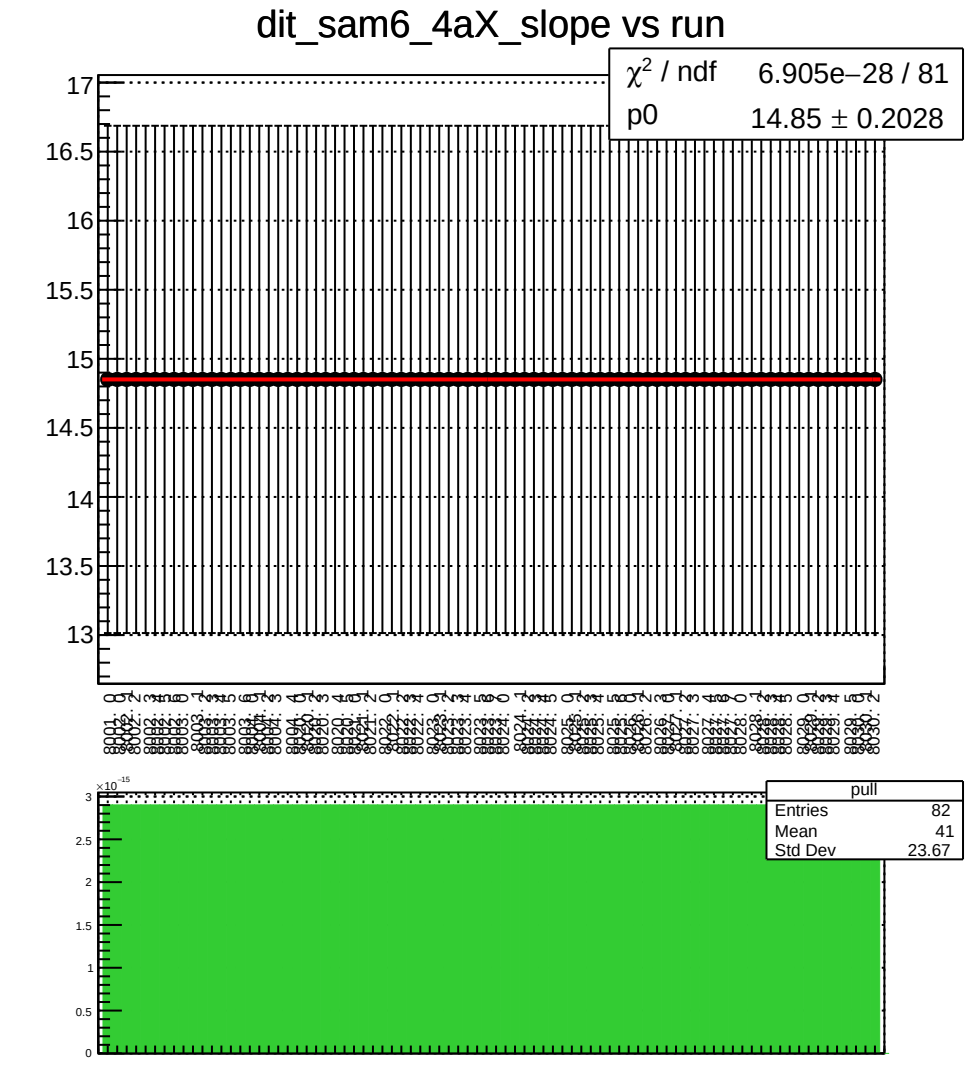

pull1D
Entries 82
Mean −8.889e−14
Std Dev5.489e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

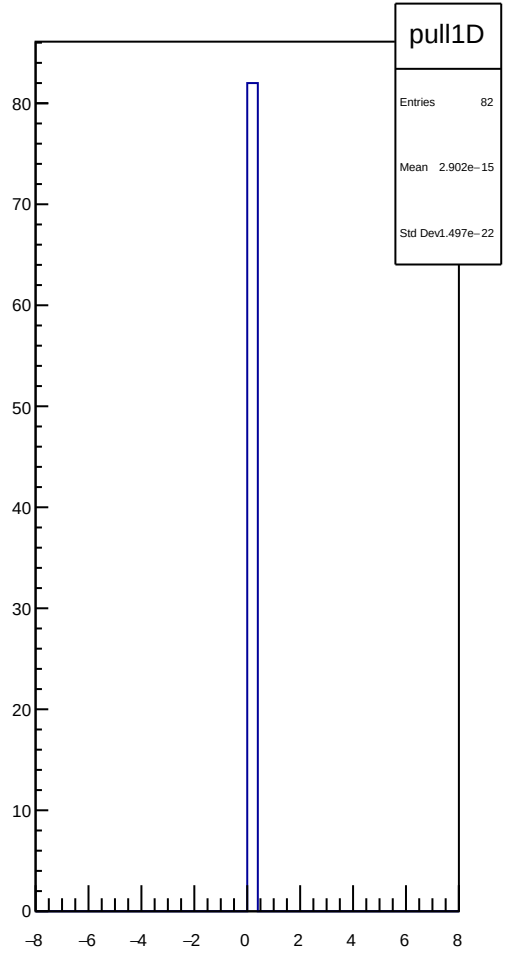

dit_sam5_11X12X_slope vs run
χ² / ndf 8.162e−28 / 81
p0 0.2998 ± 0.01554
0.45
0.4
0.35
0.3
0.25
0.2
0.15
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3

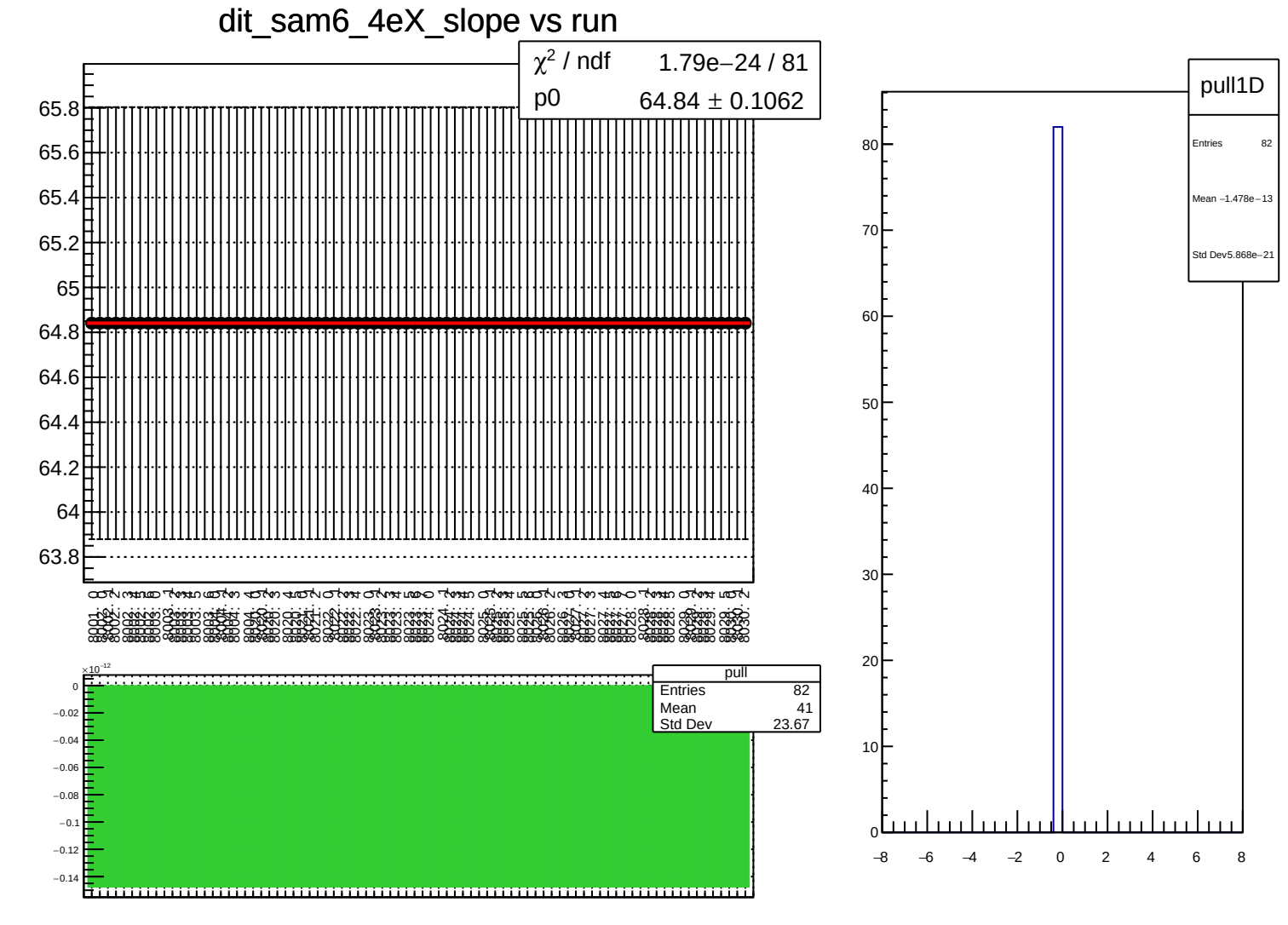

pull1D
Entries 82
Mean −3.155e−15
Std Dev1.834e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

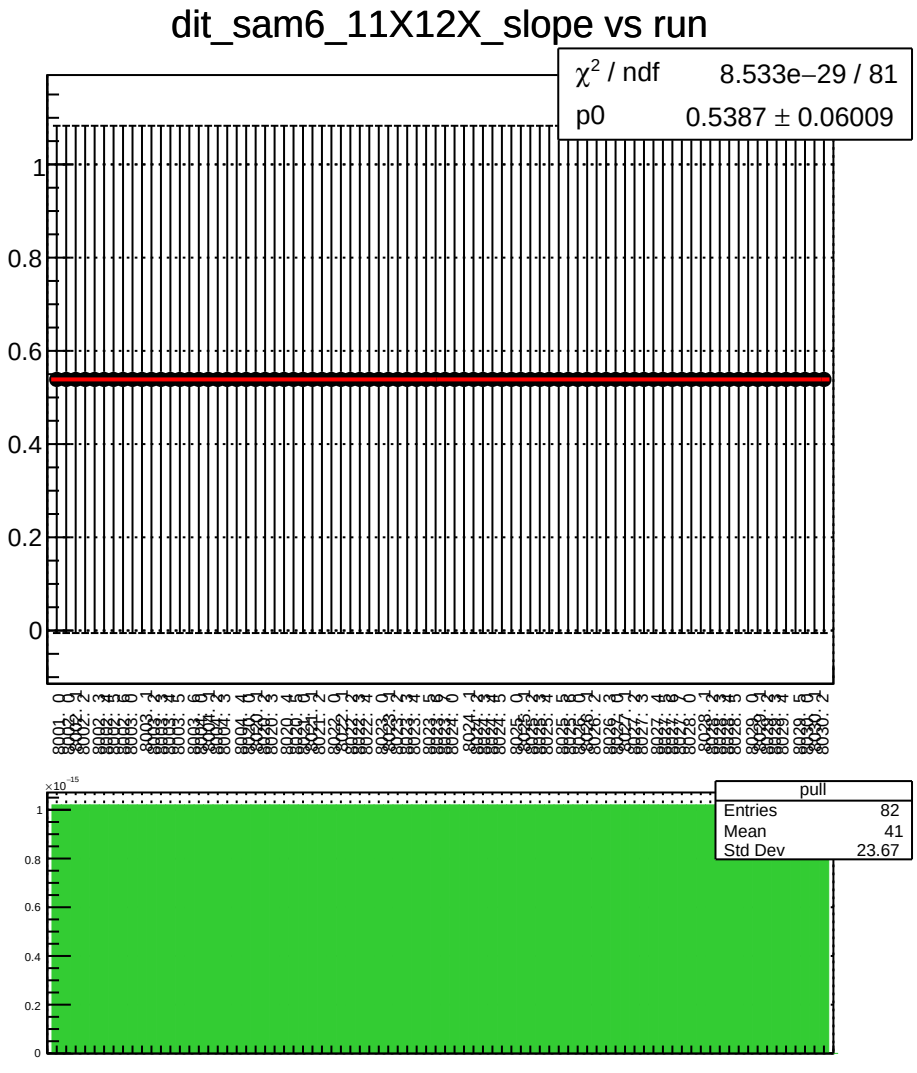

dit_sam5_4aY_slope vs run
χ² / ndf 1.786e−25 / 81
p0 30.68 ± 0.1261
32
31.5
31
30.5
30
29.5
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
45
40
35
30
25
20
15
10
5
0
pull1D
Entries 82
Mean 4.666e−14
Std Dev 5.989e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

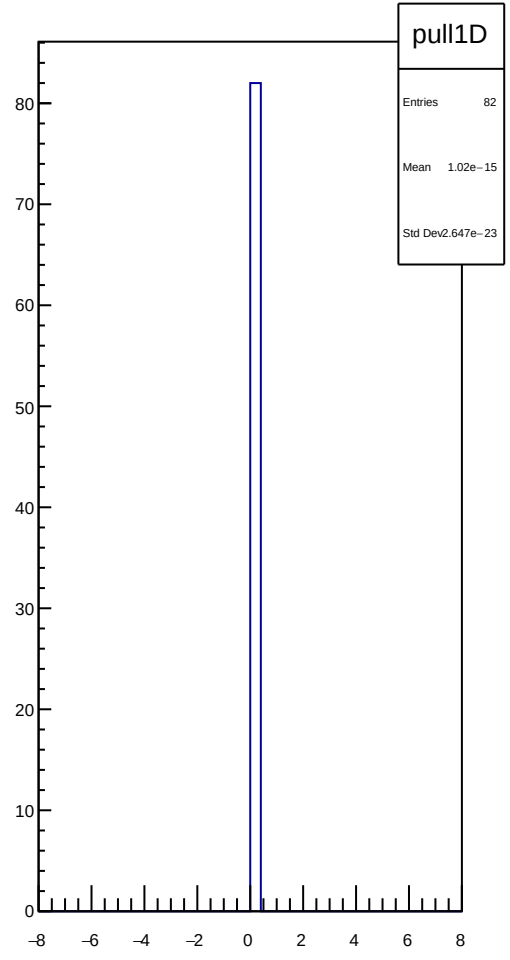

dit_sam5_4eY_slope vs run
χ² / ndf 8.778e−25 / 81
p0 127 ± 0.1365
128
127.5
127
126.5
126
125.5
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹²
0.1
0.08
0.06
0.04
0.02
0
pull1D
Entries 82
Mean 1.035e−13
Std Dev2.396e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

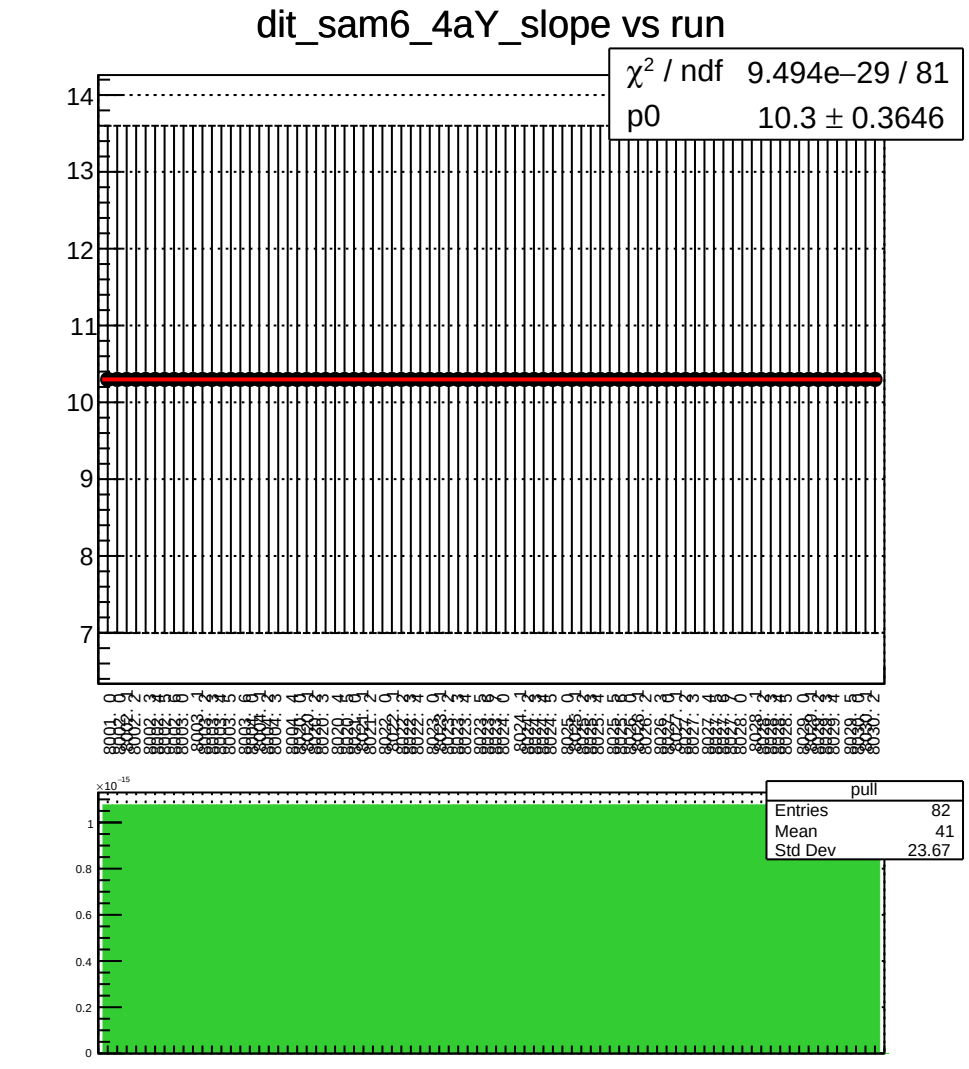

dit_sam6_4aX_slope vs run
χ² / ndf 6.905e−28 / 81
p0 14.85 ± 0.2028
pull
Entries 82
Mean 41
Std Dev 23.67

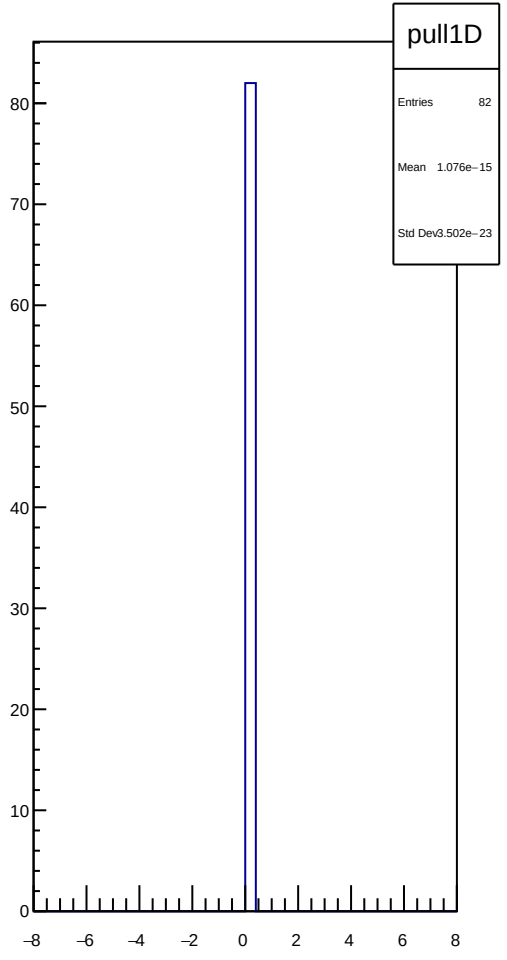

pull1D
Entries 82
Mean 2.902e−15
Std Dev1.497e−22

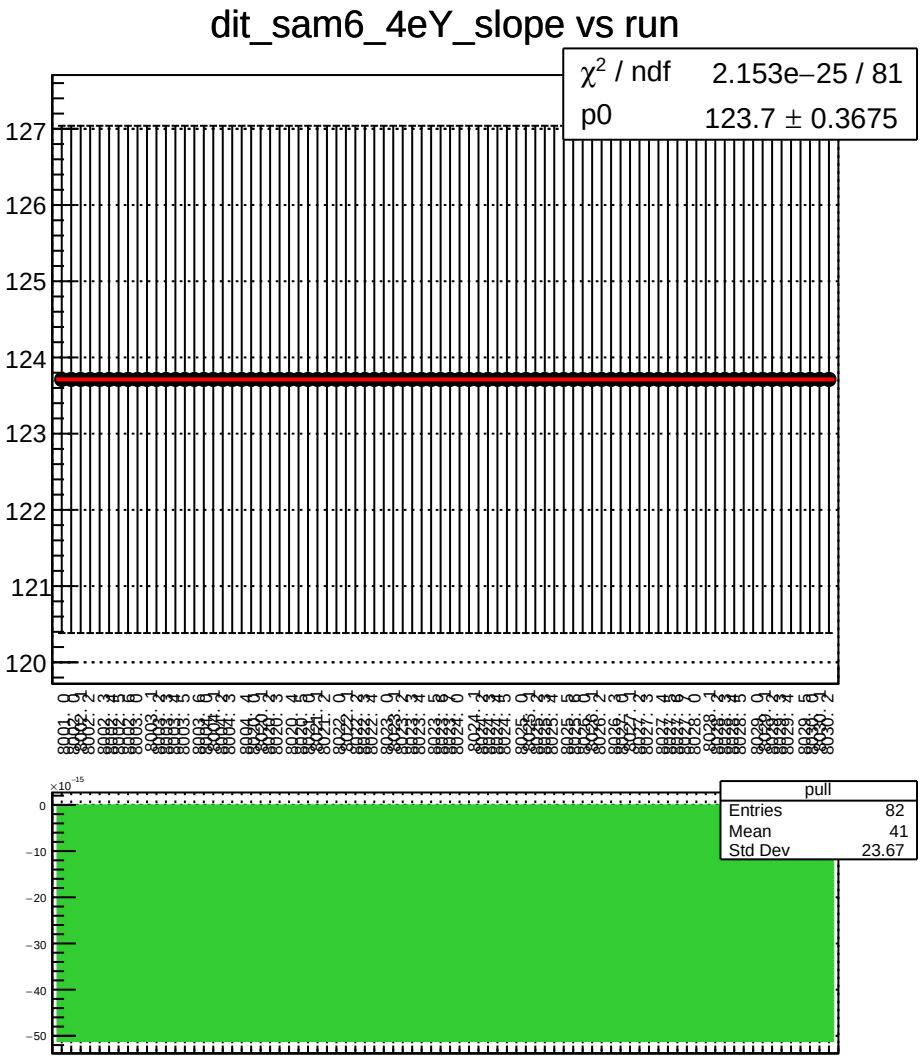

dit_sam6_4eX_slope vs run
χ² / ndf 1.79e−24 / 81
p0 64.84 ± 0.1062
65.8
65.6
65.4
65.2
65
64.8
64.6
64.4
64.2
64
63.8
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull1D
Entries 82
Mean −1.478e−13
Std Dev5.868e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

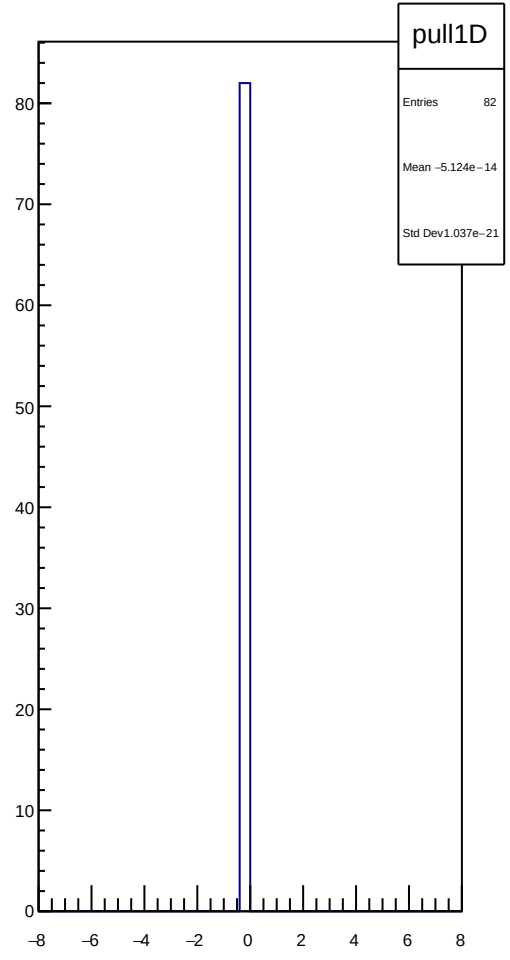

dit_sam6_11X12X_slope vs run
χ² / ndf 8.533e−29 / 81
p0 0.5387 ± 0.06009
pull
Entries 82
Mean 41
Std Dev 23.67

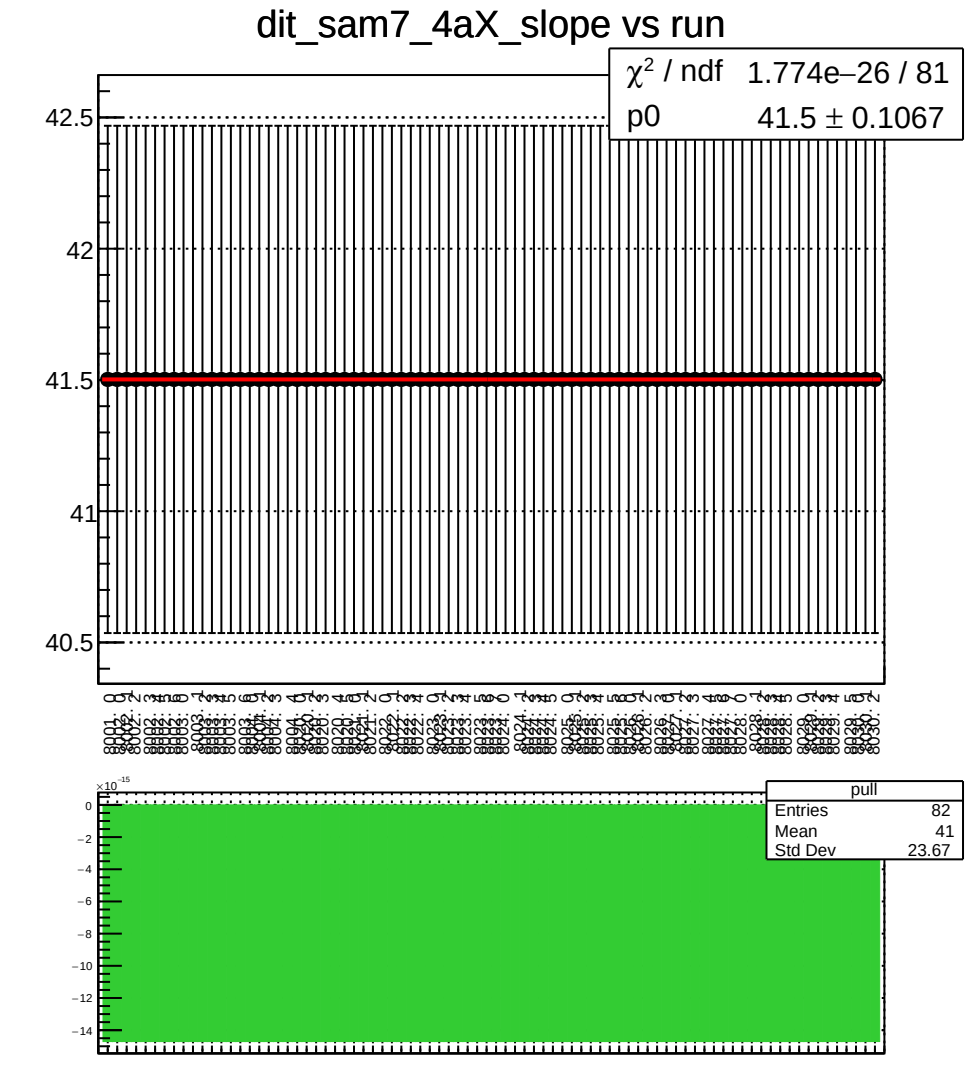

pull1D
Entries 82
Mean 1.02e−15
Std Dev2.647e−23

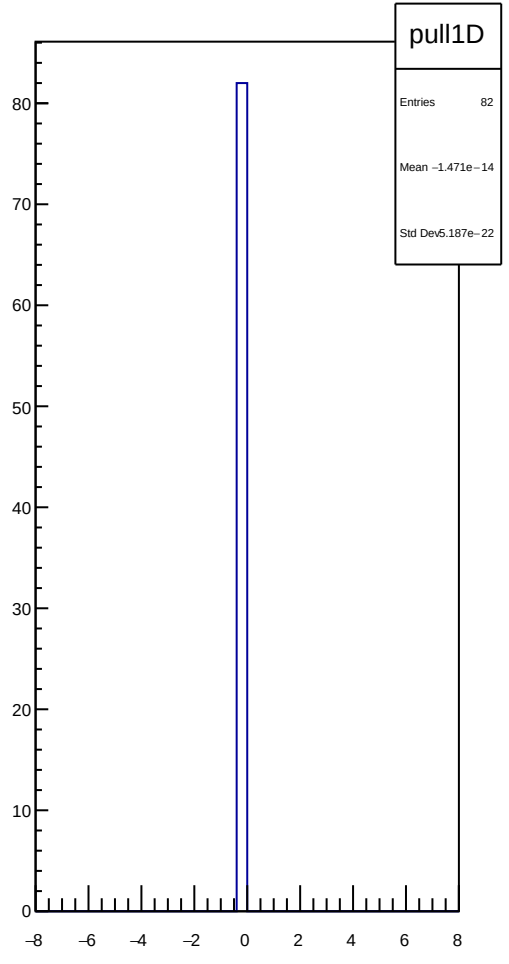

dit_sam6_4aY_slope vs run
χ² / ndf 9.494e−29 / 81
p0 10.3 ± 0.3646
pull
Entries 82
Mean 41
Std Dev 23.67

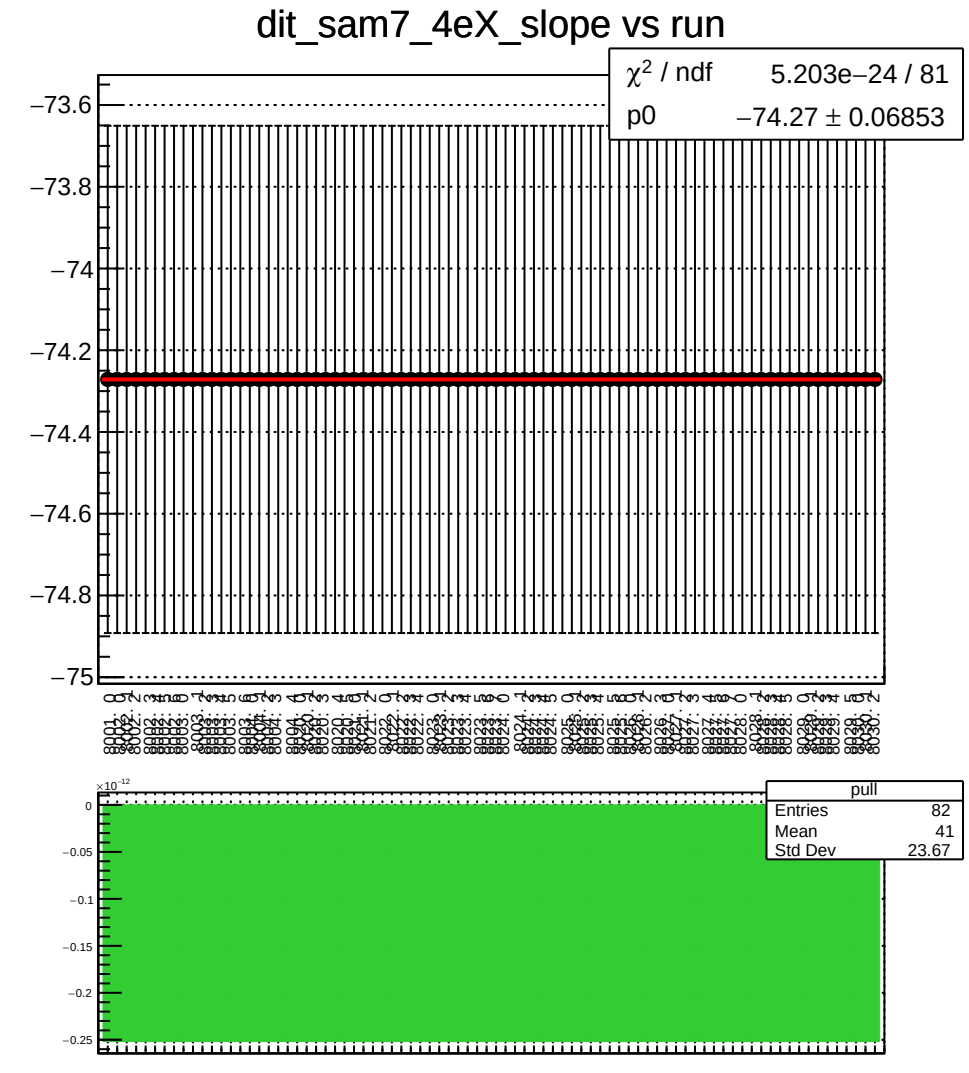

pull1D
Entries 82
Mean 1.076e−15
Std Dev 3.502e−23

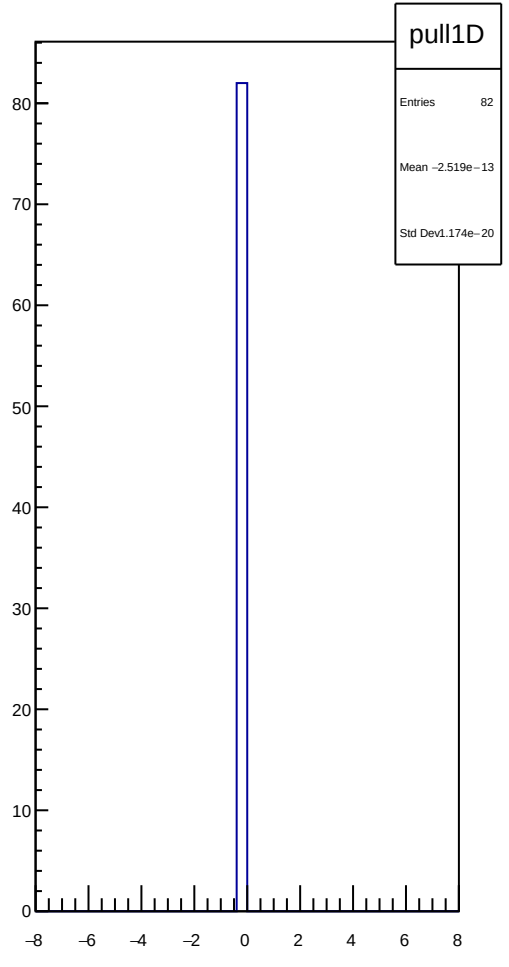

dit_sam6_4eY_slope vs run
χ^2 / ndf 2.153e−25 / 81
p0 123.7 ± 0.3675
pull
Entries 82
Mean 41
Std Dev 23.67

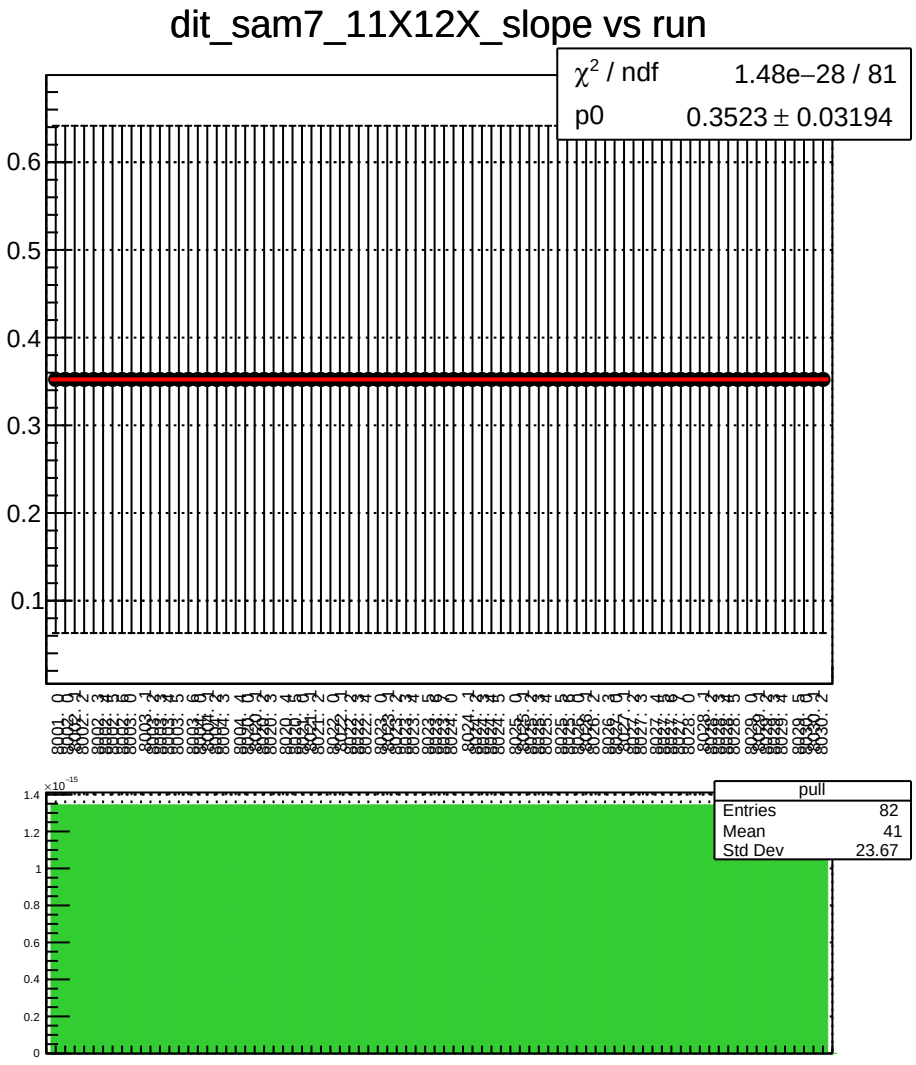

pull1D
Entries 82
Mean −5.124e−14
Std Dev1.037e−21

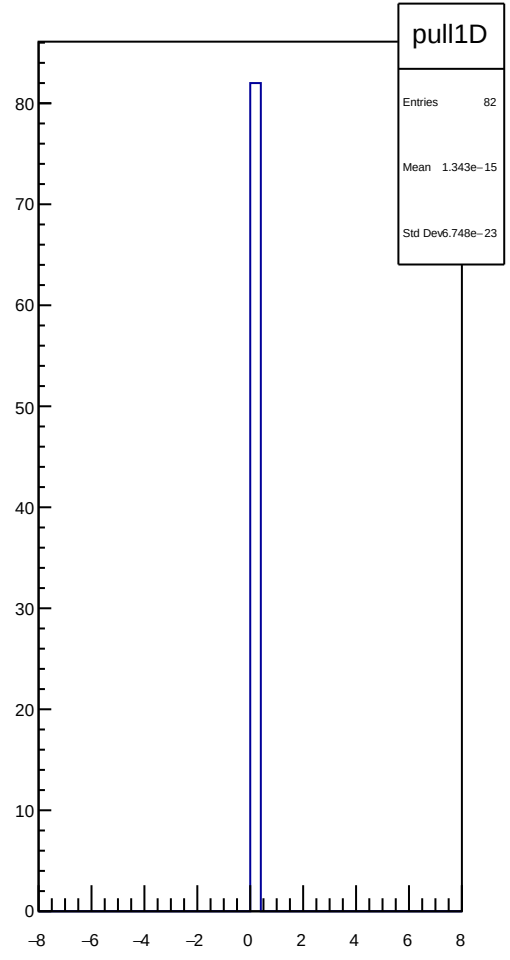

dit_sam7_4aX_slope vs run
χ² / ndf 1.774e−26 / 81
p0 41.5 ± 0.1067
42.5
42
41.5
41
40.5
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14

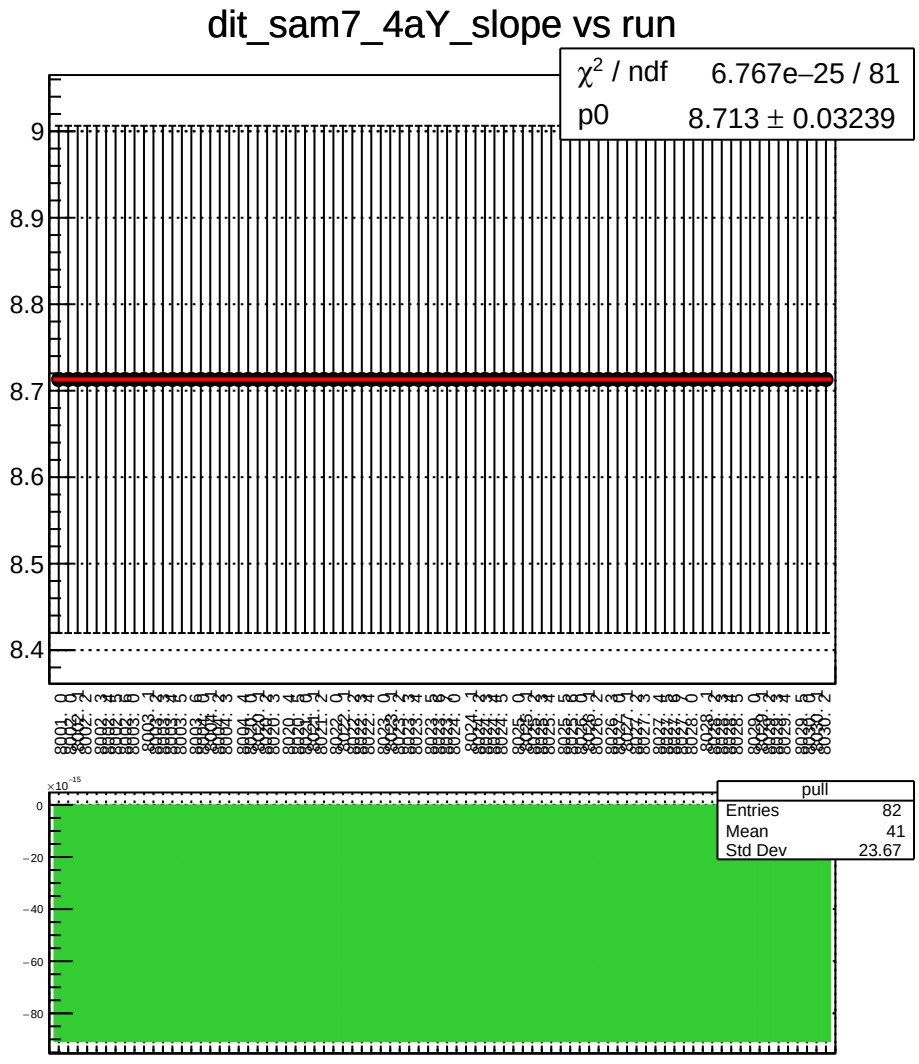

pull1D
Entries 82
Mean −1.471e−14
Std Dev 5.187e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

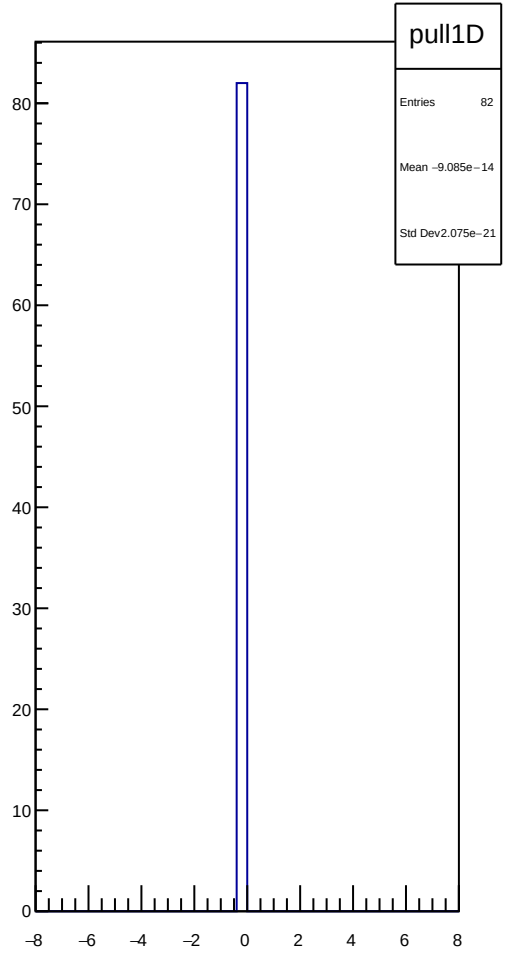

dit_sam7_4eX_slope vs run
χ² / ndf 5.203e−24 / 81
p0 −74.27 ± 0.06853
−73.6
−73.8
−74
−74.2
−74.4
−74.6
−74.8
−75
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25

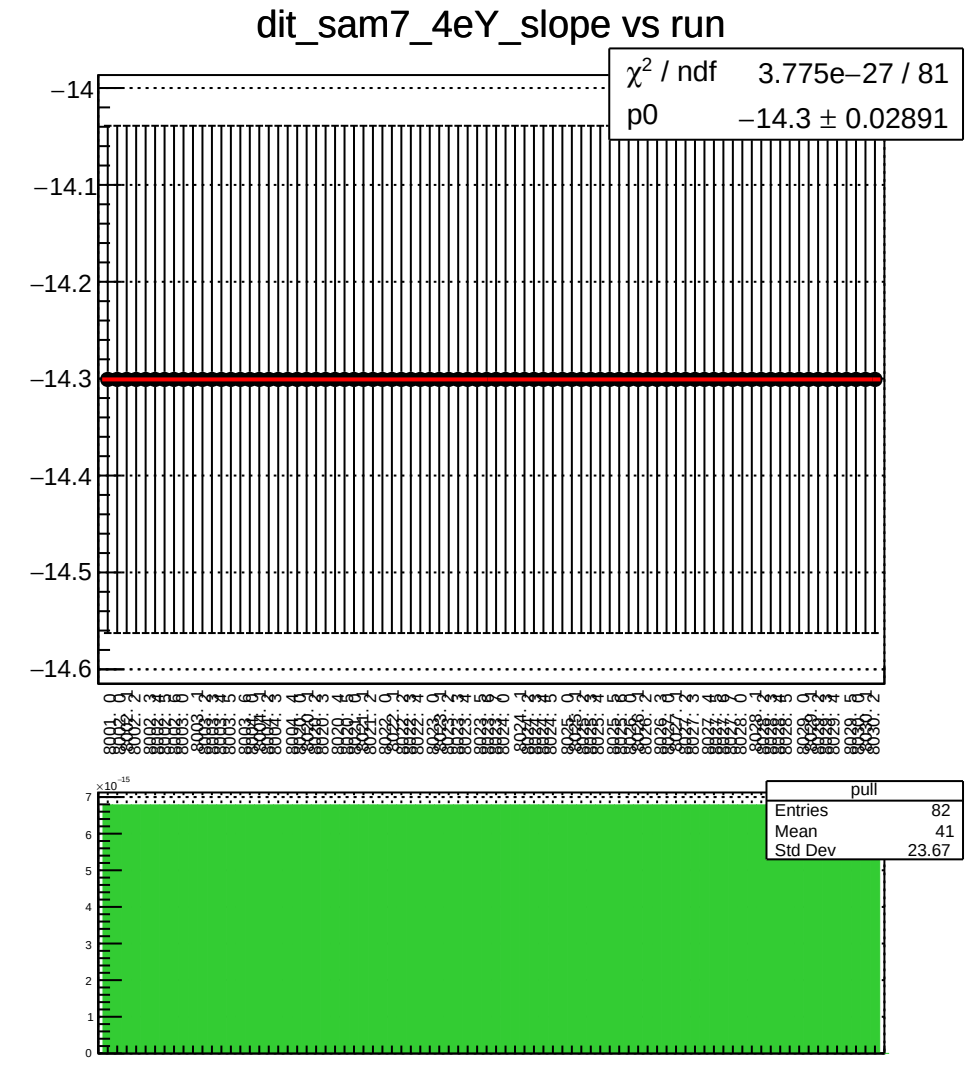

pull1D
Entries 82
Mean −2.519e−13
Std Dev1.174e−20
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

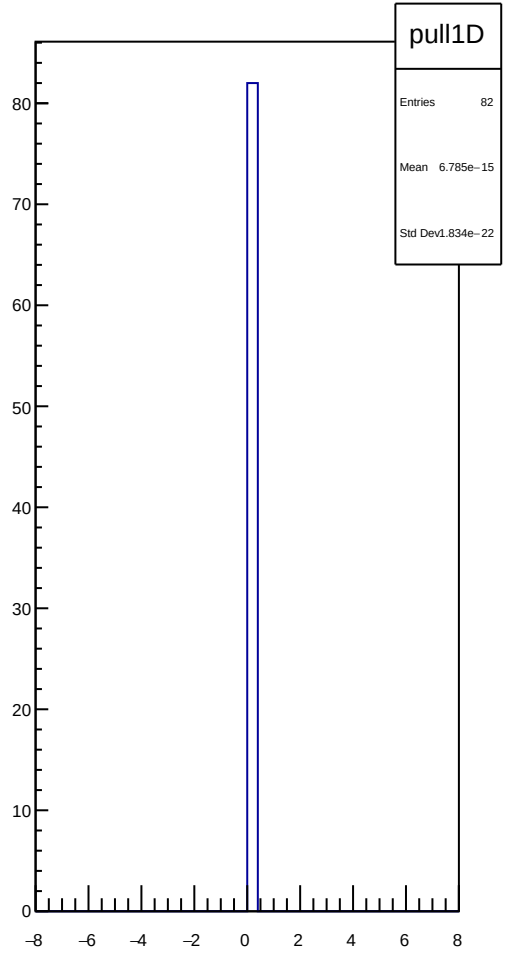

dit_sam7_11X12X_slope vs run
χ² / ndf 1.48e−28 / 81
p0 0.3523 ± 0.03194
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵

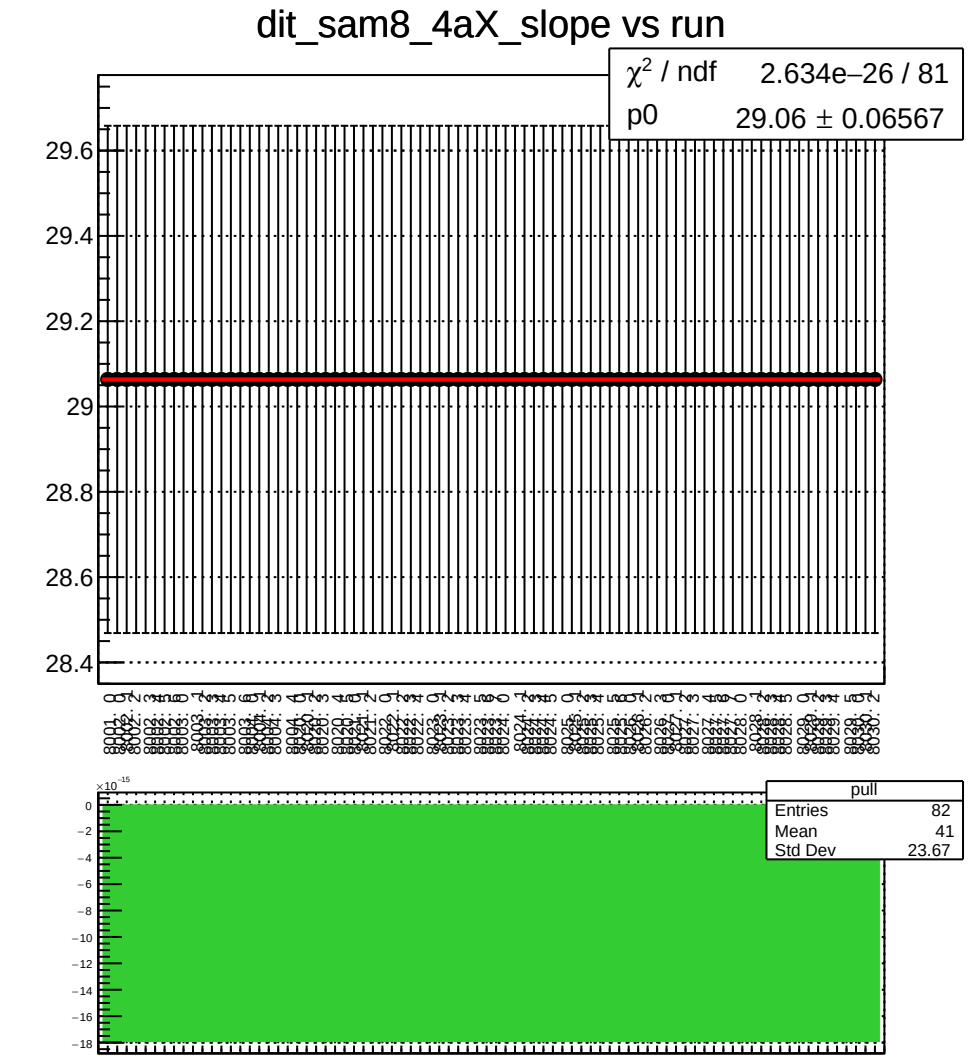

pull1D
Entries 82
Mean 1.343e−15
Std Dev 6.748e−23

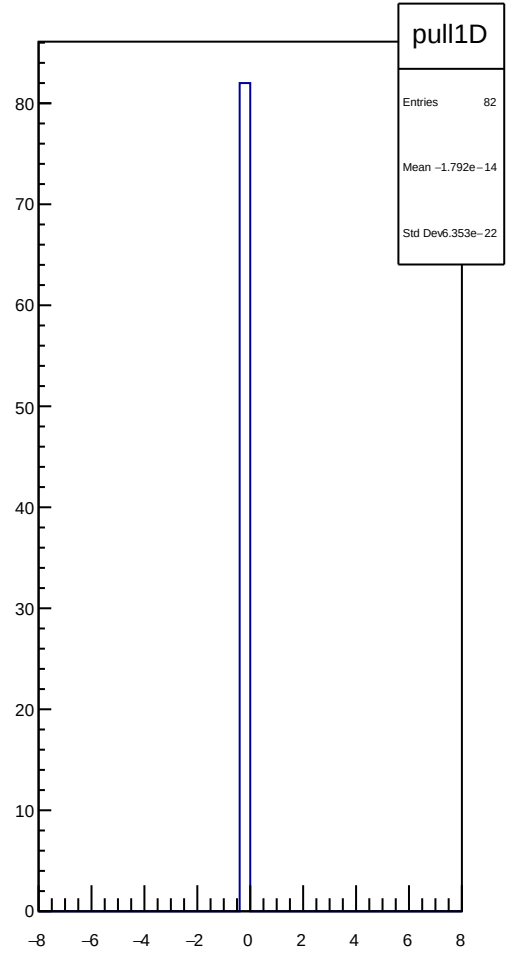

dit_sam7_4aY_slope vs run
χ² / ndf 6.767e−25 / 81
p0 8.713 ± 0.03239
9
8.9
8.8
8.7
8.6
8.5
8.4
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
0
−20
−40
−60
−80

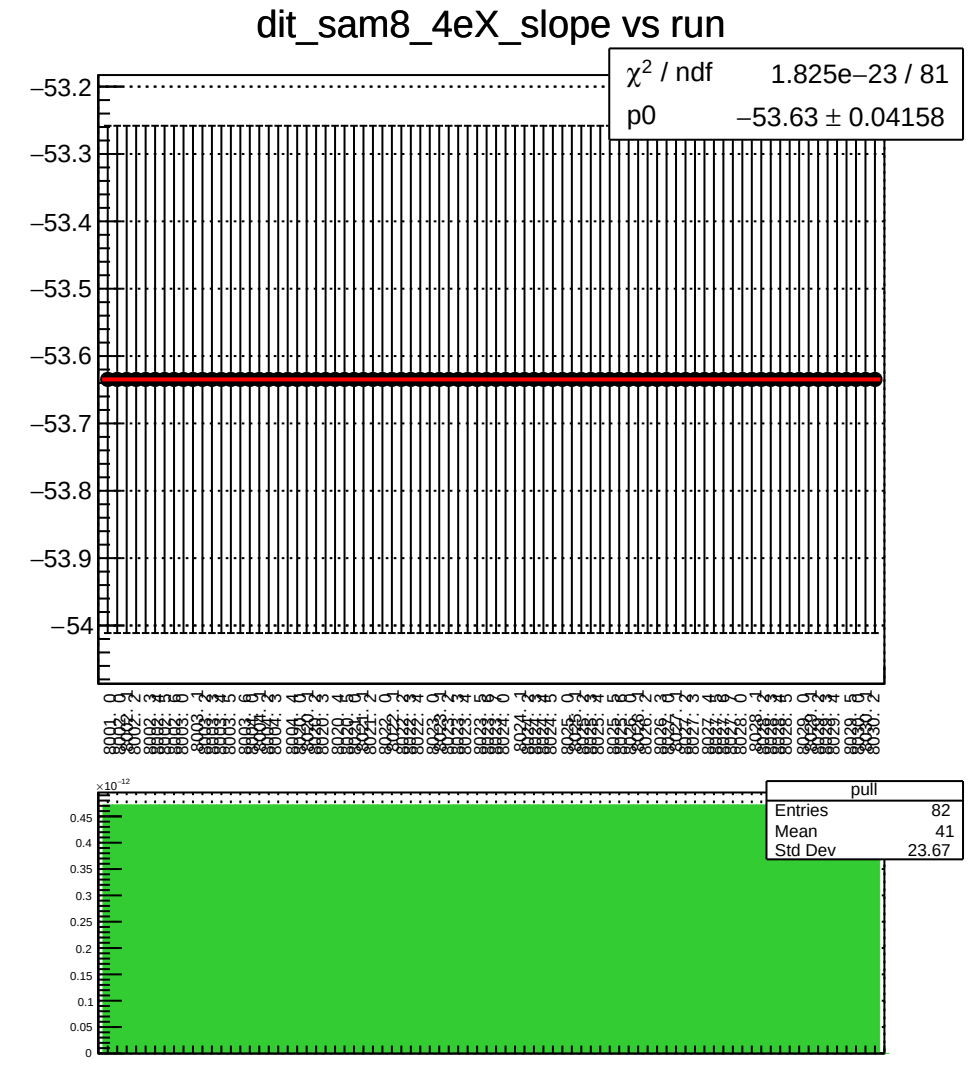

pull1D
Entries 82
Mean −9.085e−14
Std Dev2.075e−21
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

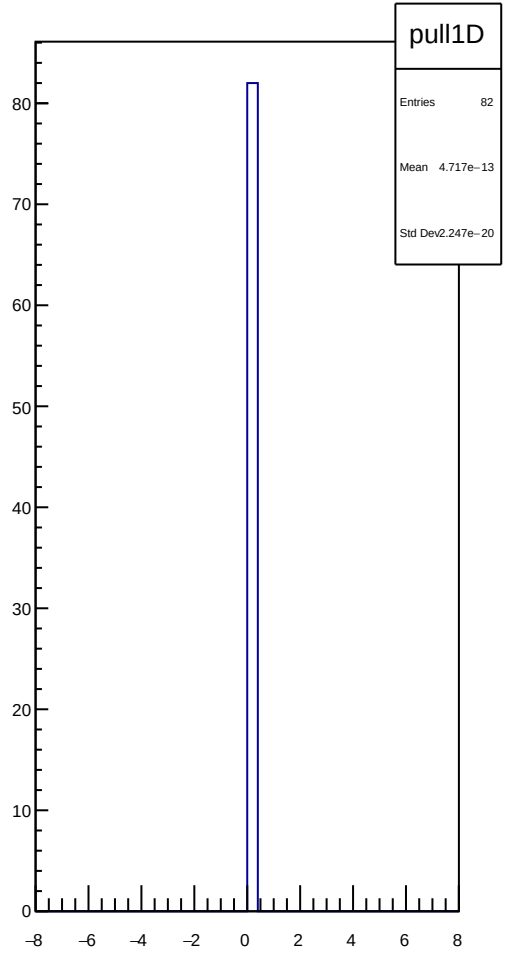

dit_sam7_4eY_slope vs run
χ² / ndf 3.775e−27 / 81
p0 −14.3 ± 0.02891
−14
−14.1
−14.2
−14.3
−14.4
−14.5
−14.6
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
7
6
5
4
3
2
1
0

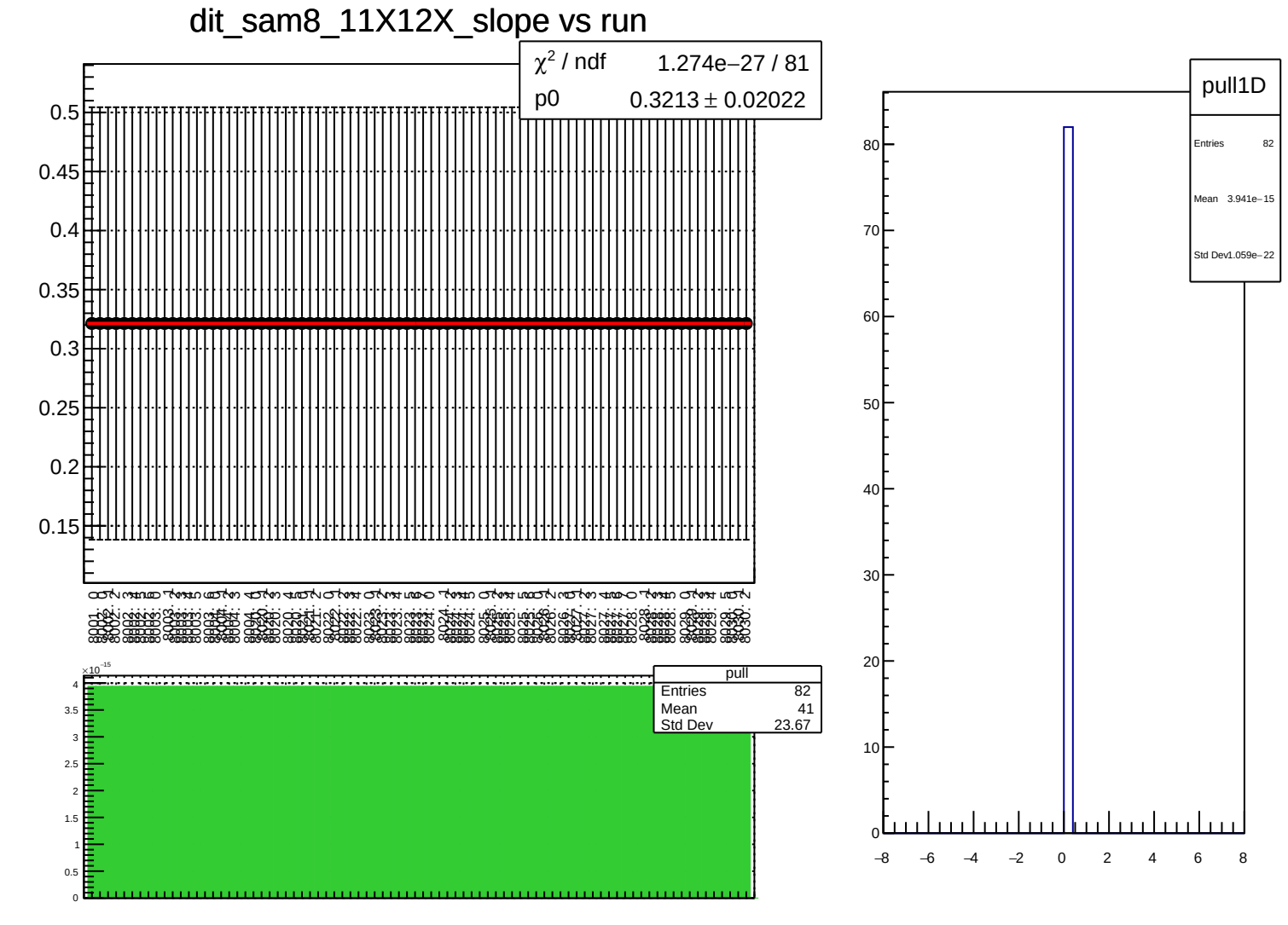

pull1D
Entries 82
Mean 6.785e−15
Std Dev1.834e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

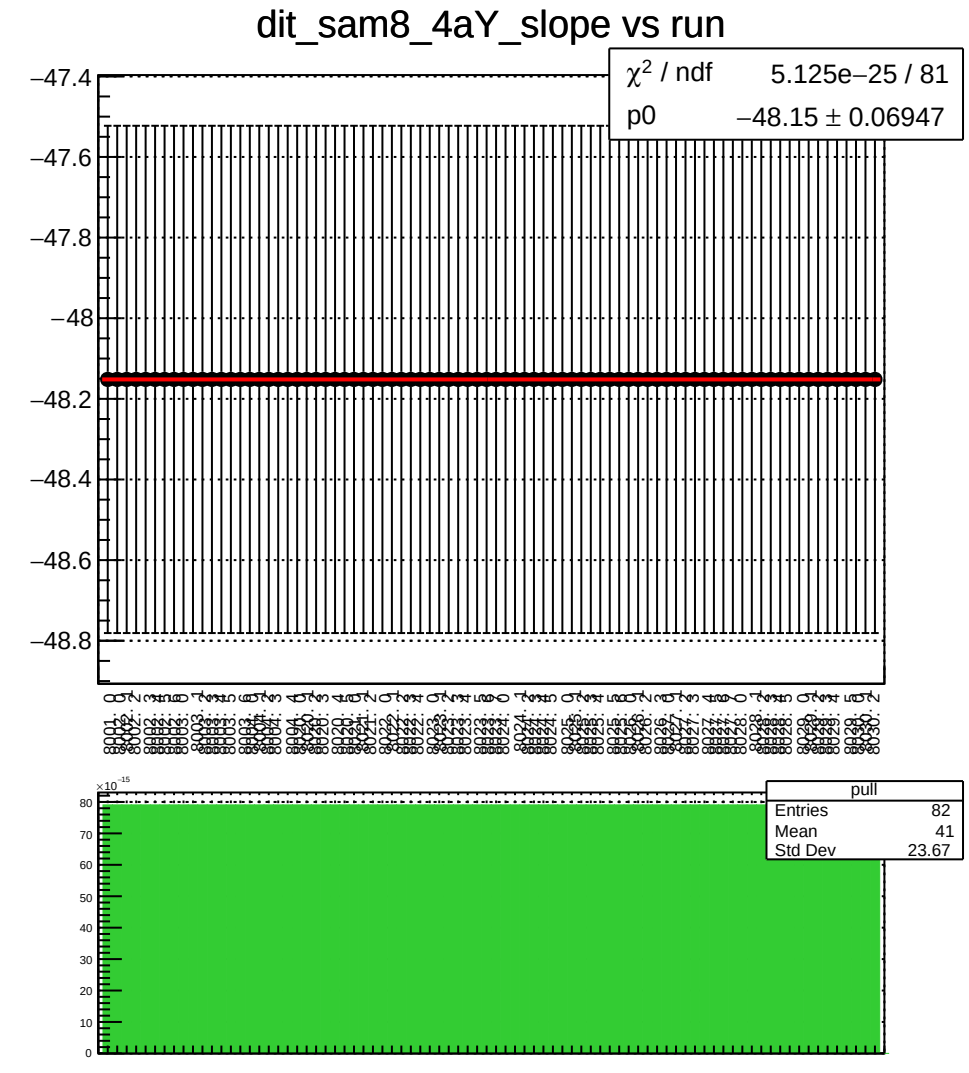

dit_sam8_4aX_slope vs run
χ² / ndf 2.634e−26 / 81
p0 29.06 ± 0.06567
29.6
29.4
29.2
29
28.8
28.6
28.4
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
−18

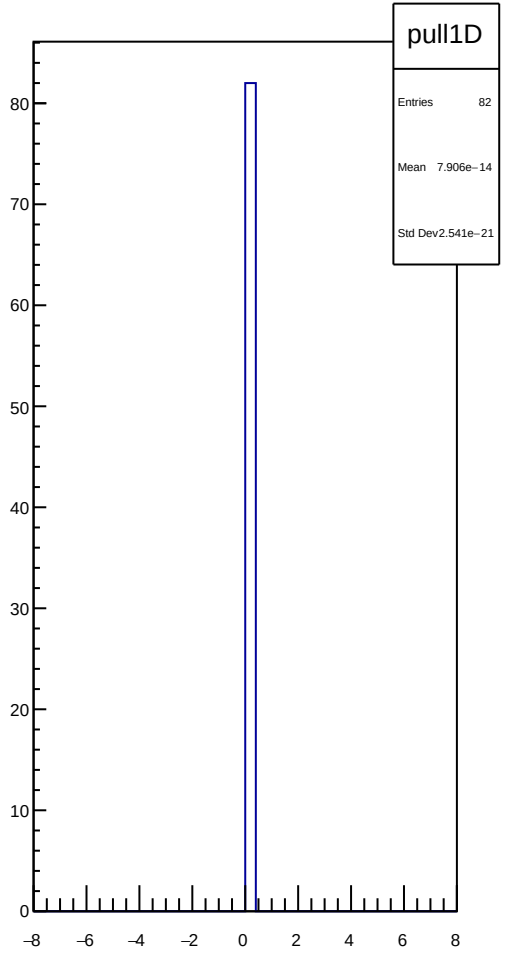

pull1D
Entries 82
Mean −1.792e−14
Std Dev 6.353e−22
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_4eX_slope vs run
χ² / ndf 1.825e−23 / 81
p0 −53.63 ± 0.04158
−53.2
−53.3
−53.4
−53.5
−53.6
−53.7
−53.8
−53.9
−54
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹²
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0


pull1D
Entries 82
Mean 4.717e−13
Std Dev 2.247e−20
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_11X12X_slope vs run
χ² / ndf 1.274e−27 / 81
p0 0.3213 ± 0.02022
pull
Entries 82
Mean 41
Std Dev 23.67
pull1D
Entries 82
Mean 3.941e−15
Std Dev1.059e−22


dit_sam8_4aY_slope vs run
χ² / ndf 5.125e−25 / 81
p0 −48.15 ± 0.06947
−47.4
−47.6
−47.8
−48
−48.2
−48.4
−48.6
−48.8
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
80
70
60
50
40
30
20
10
0


pull1D
Entries 82
Mean 7.906e−14
Std Dev2.541e−21
80
70
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50
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30
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10
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−4
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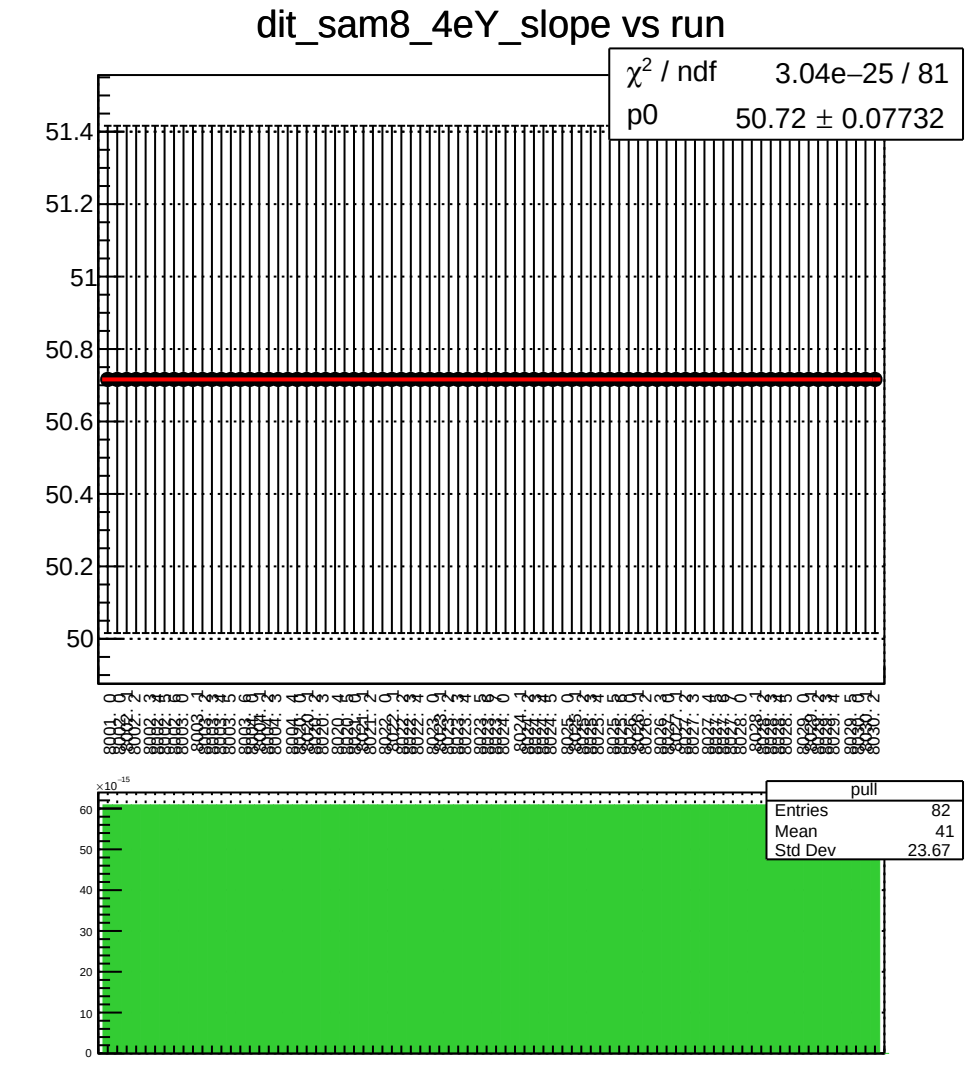
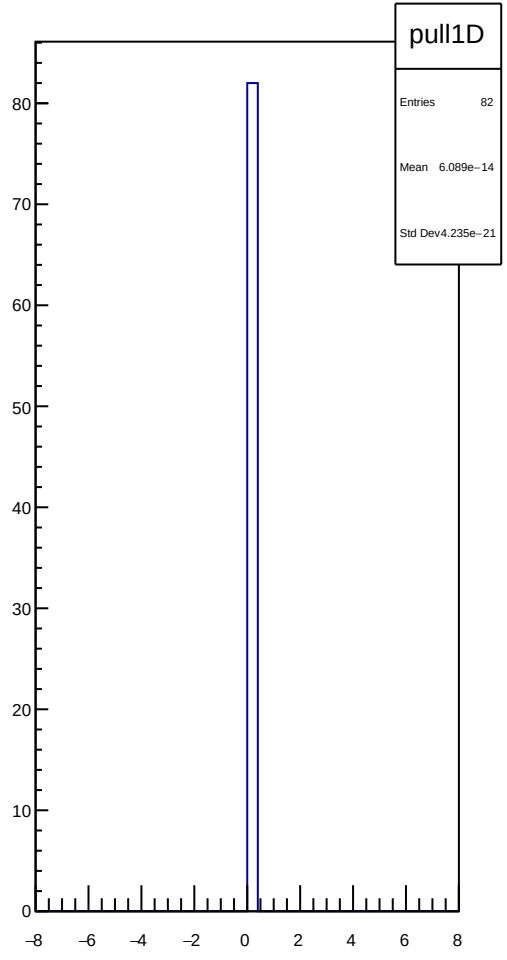

dit_sam8_4eY_slope vs run
χ² / ndf 3.04e−25 / 81
p0 50.72 ± 0.07732
51.4
51.2
51
50.8
50.6
50.4
50.2
50
pull
Entries 82
Mean 41
Std Dev 23.67
×10⁻¹⁵
60
50
40
30
20
10
0


pull1D
Entries 82
Mean 6.089e−14
Std Dev4.235e−21
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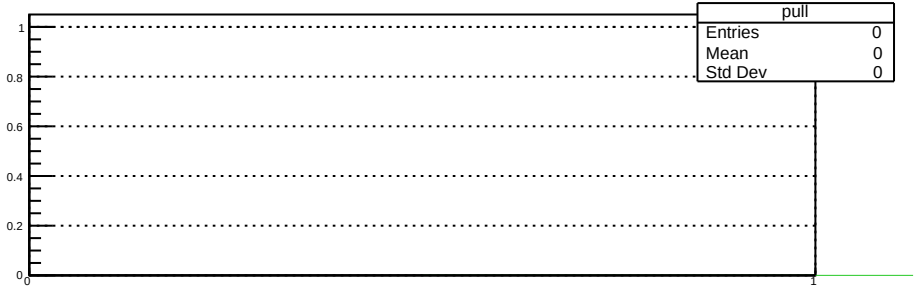
pull
Entries 0
Mean 0
Std Dev 0
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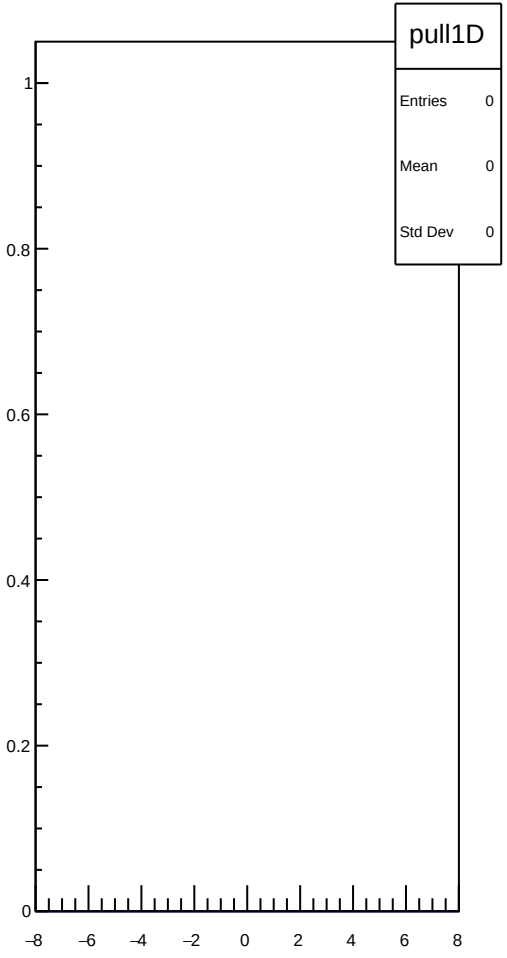
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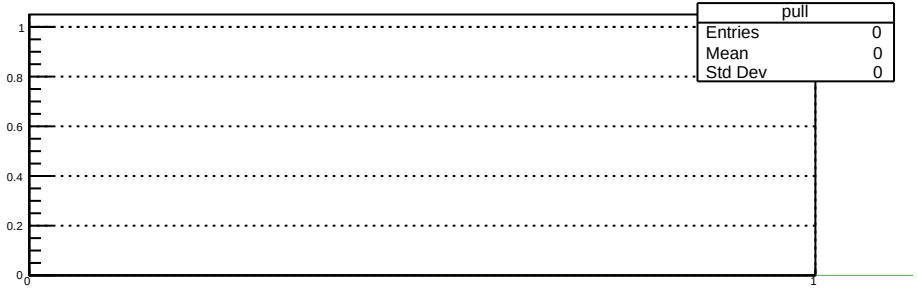
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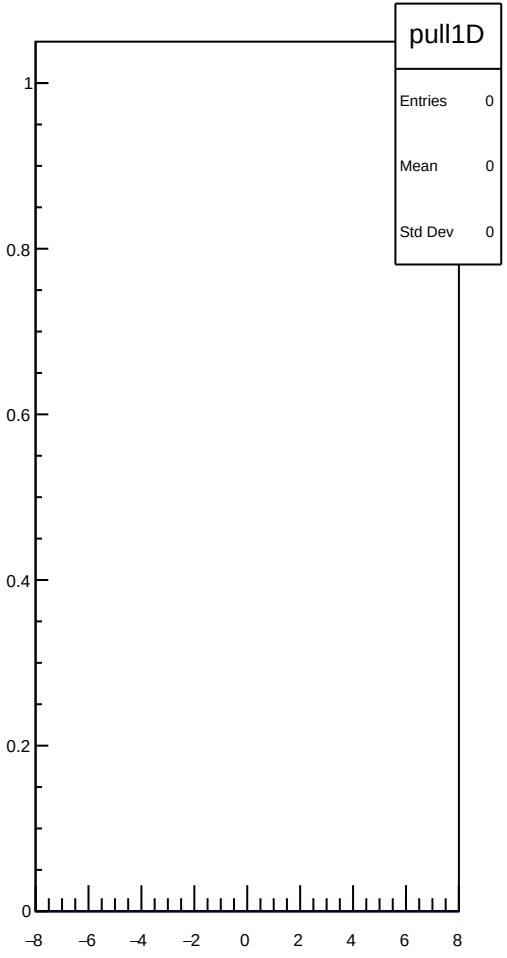
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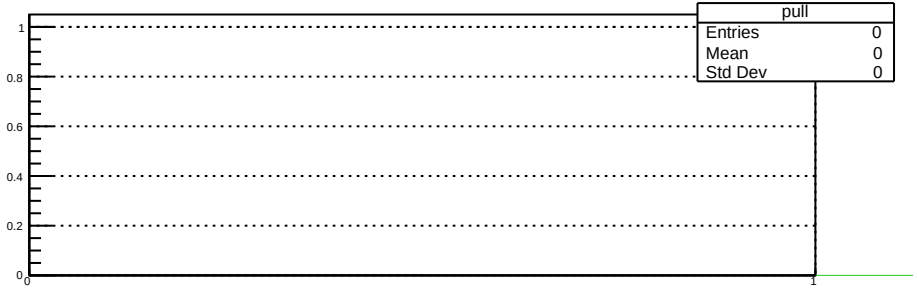
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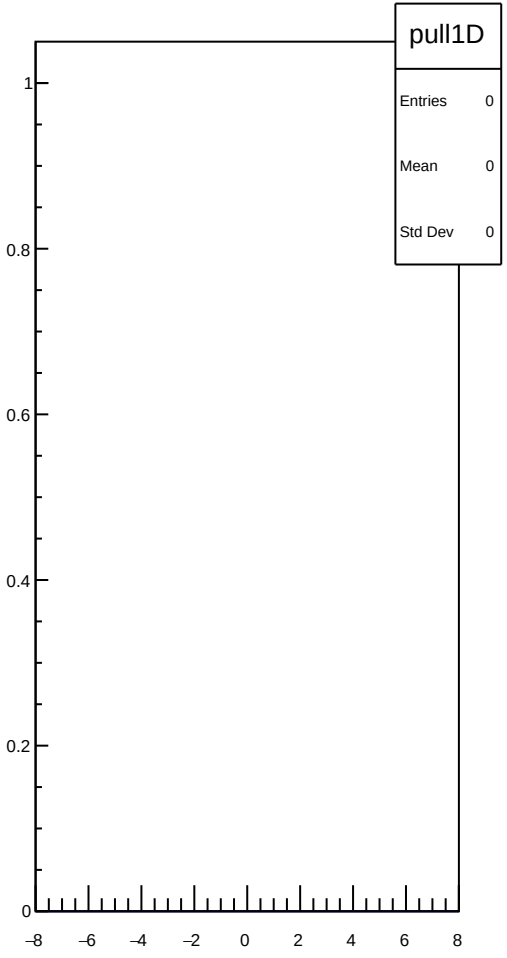
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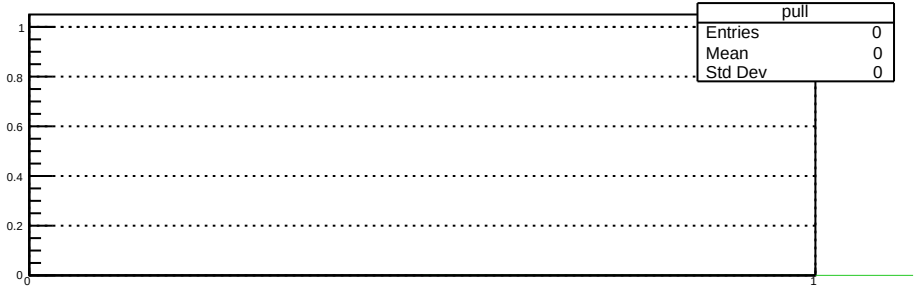
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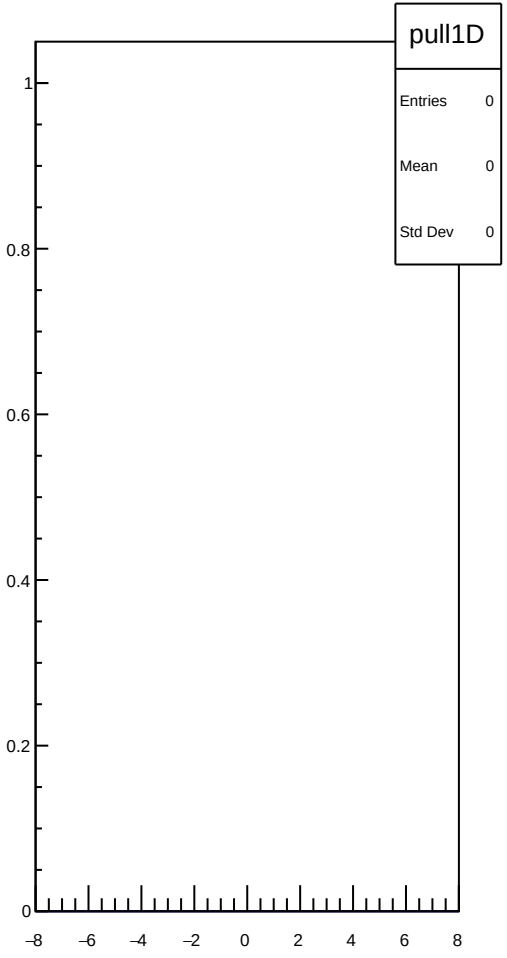
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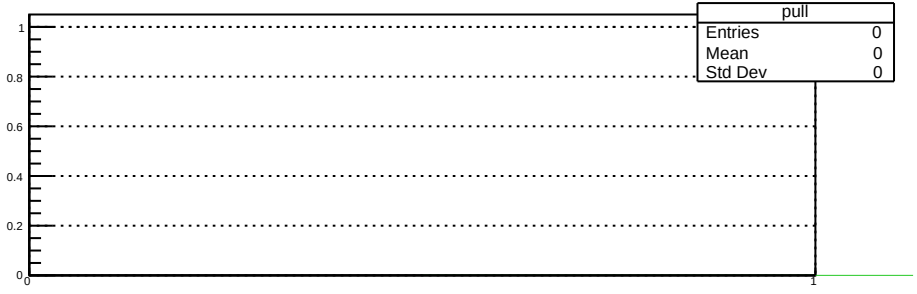
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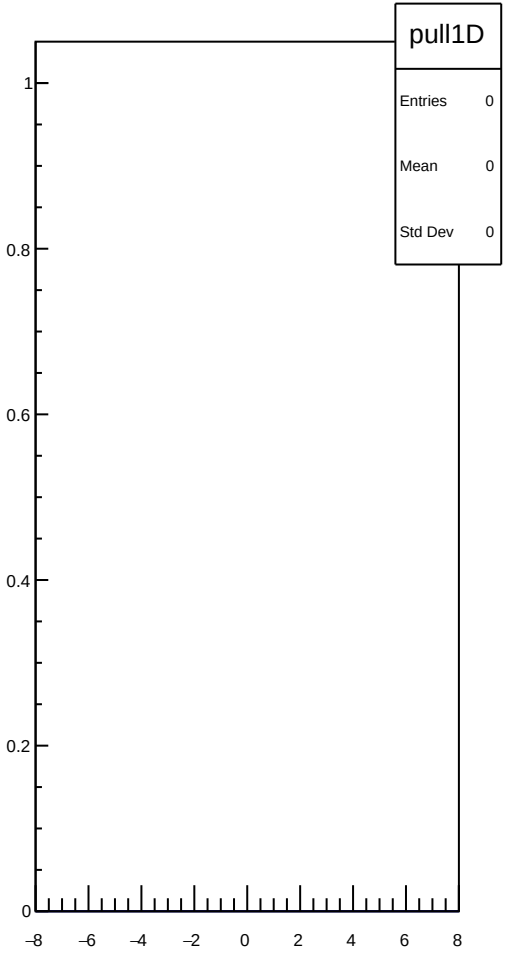
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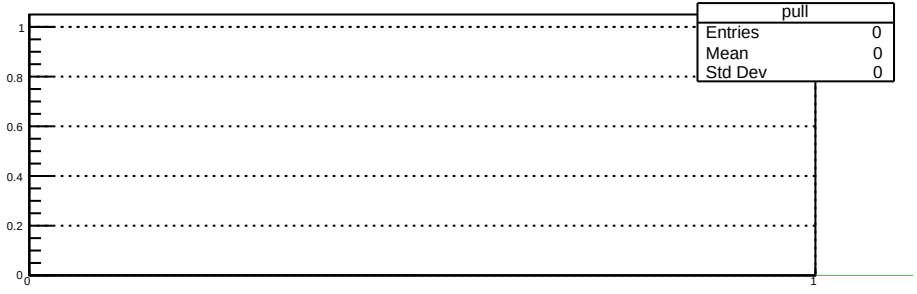
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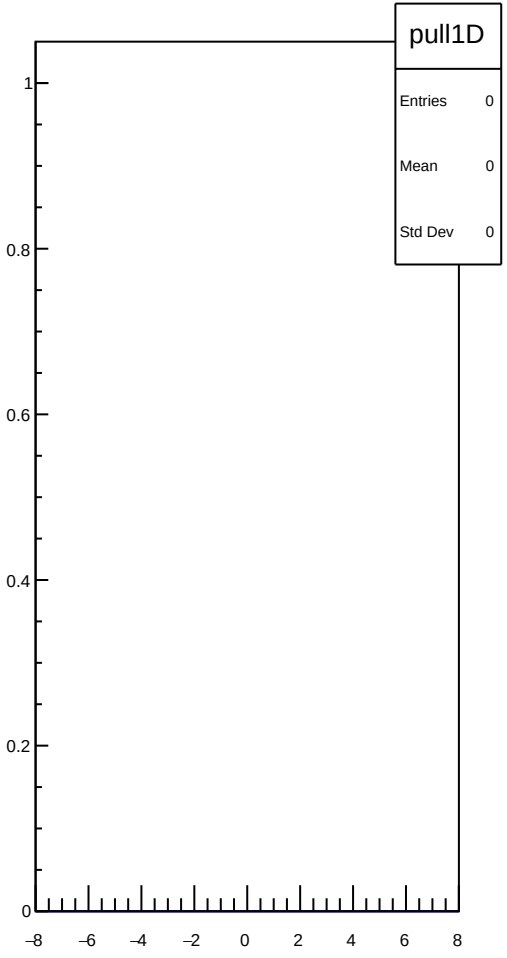
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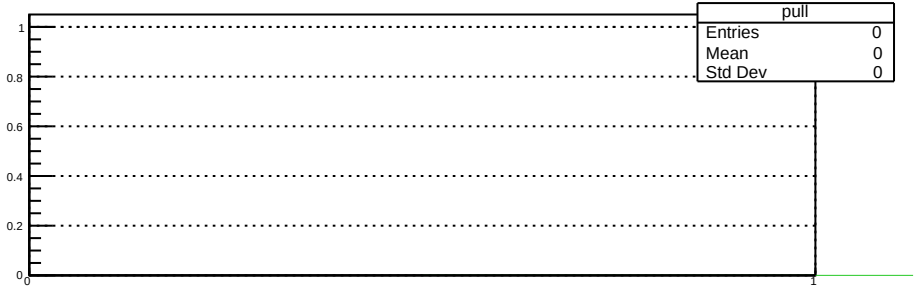
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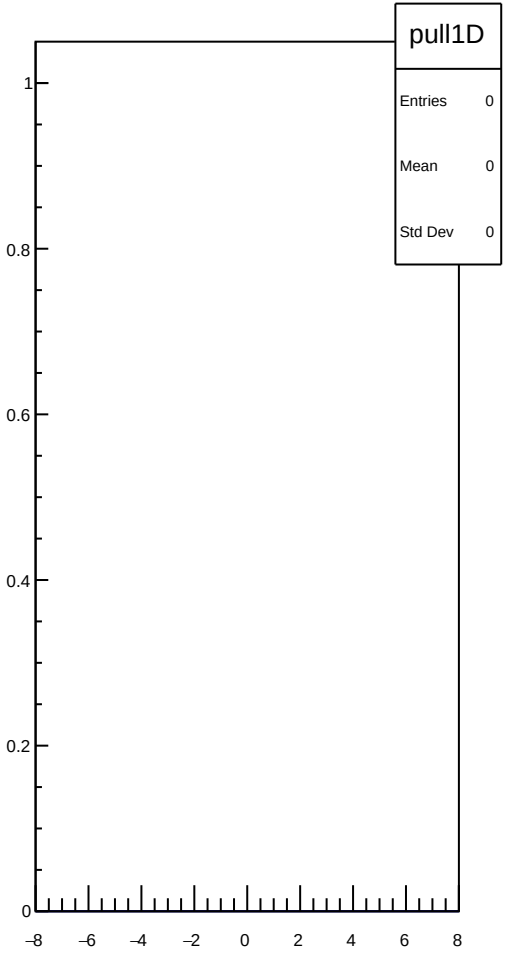
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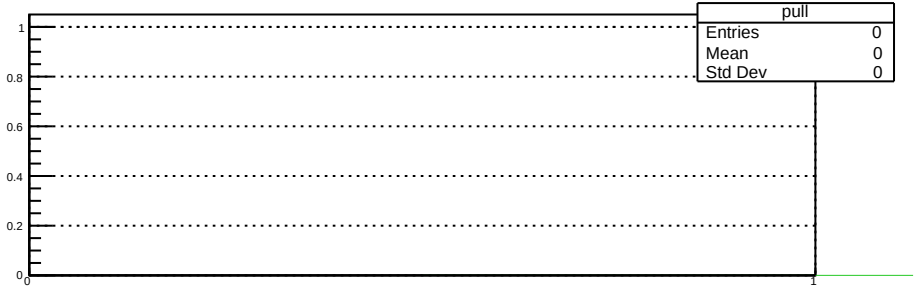
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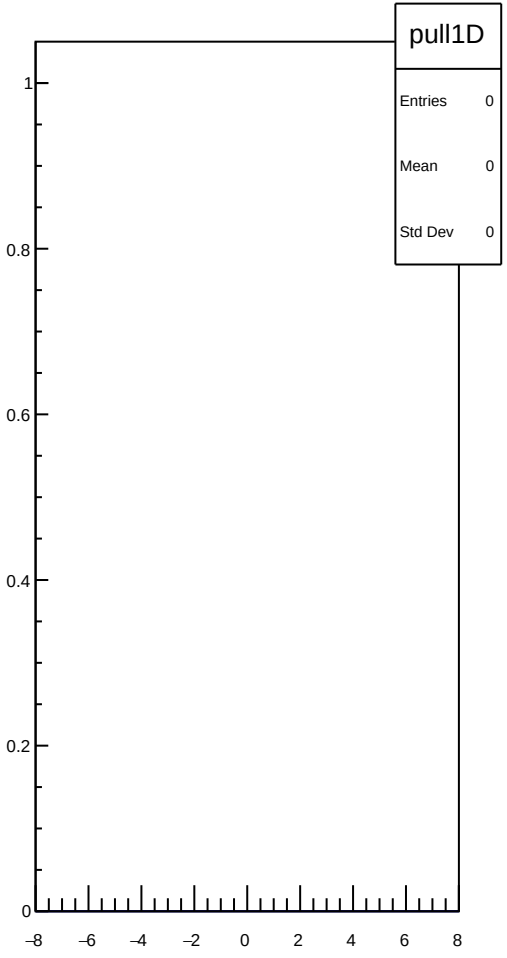
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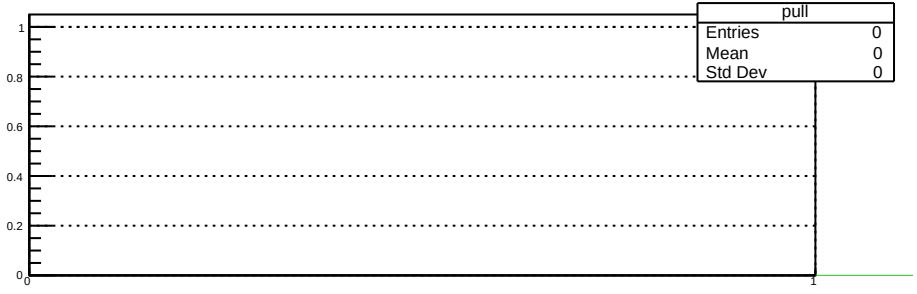
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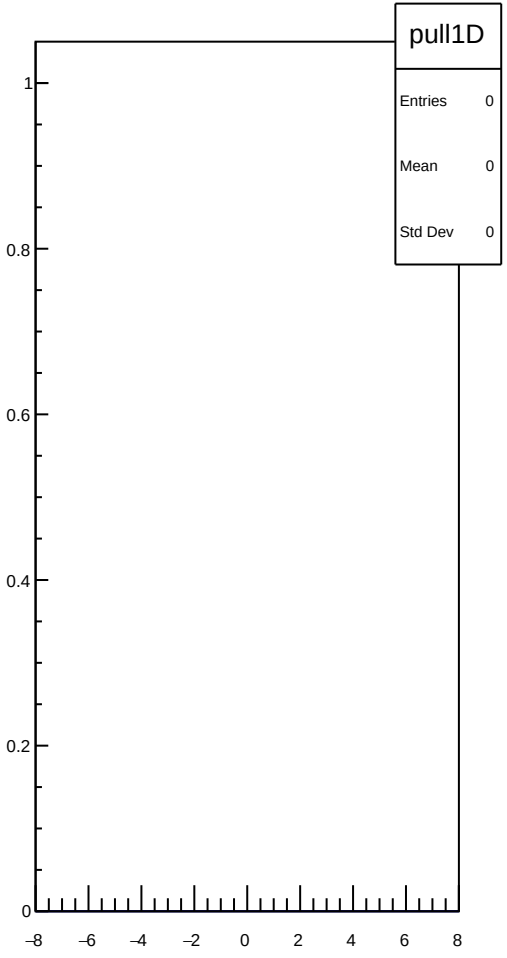
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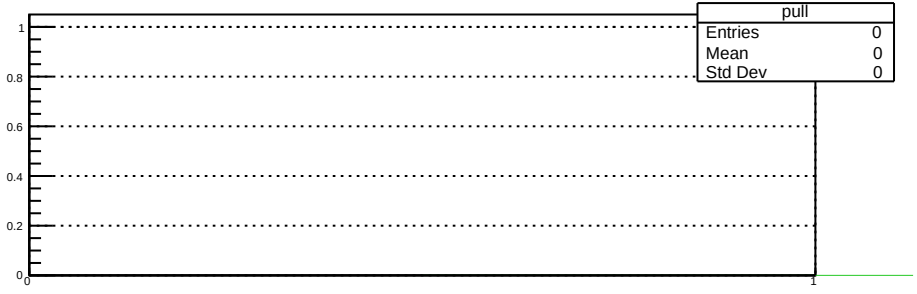
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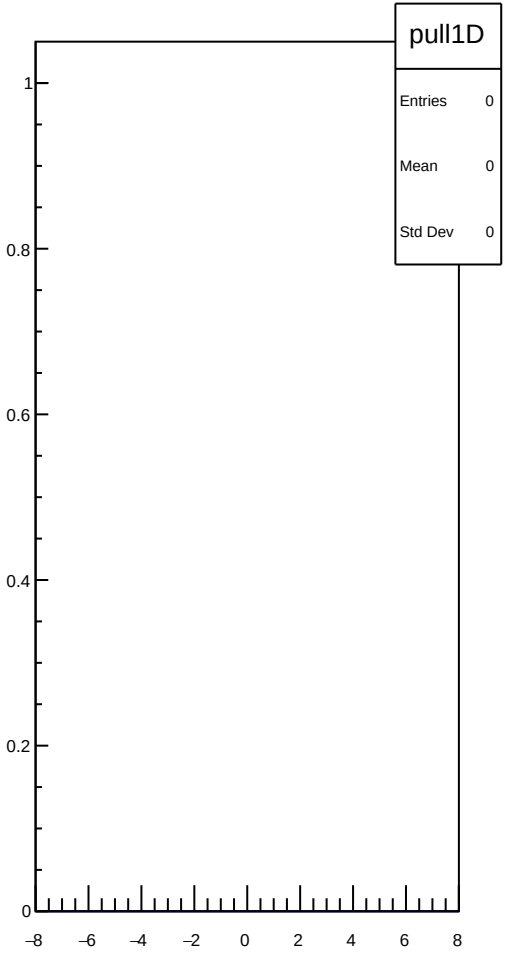
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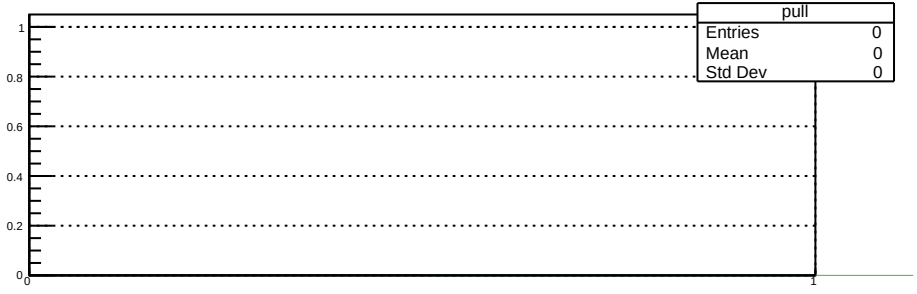
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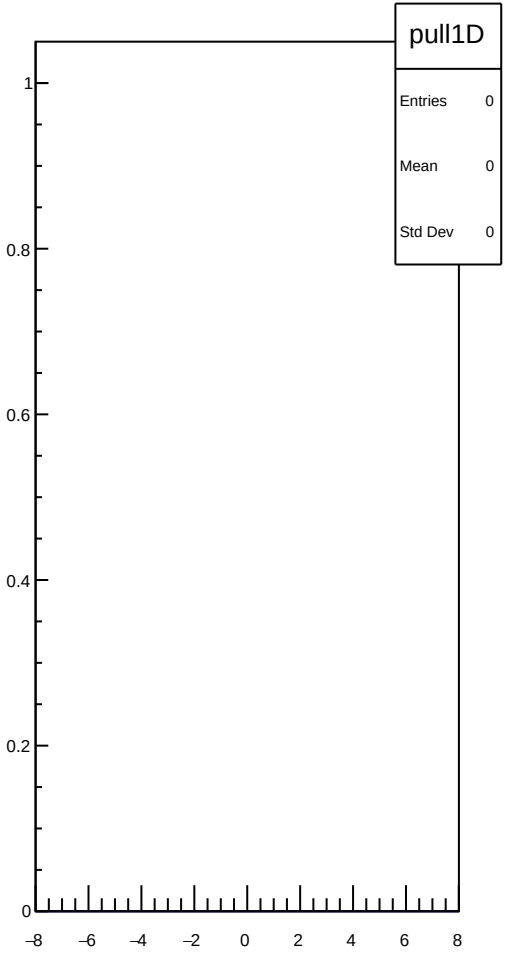
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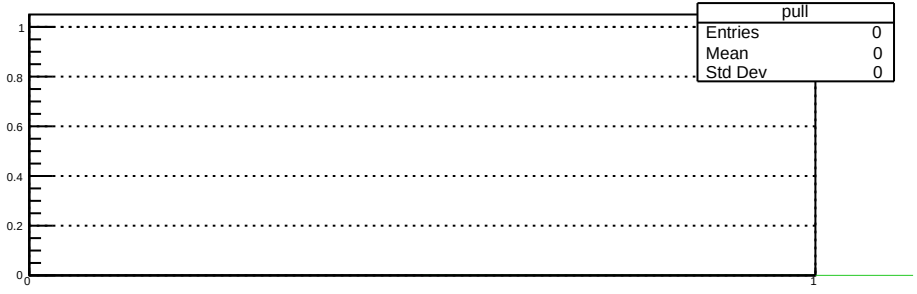
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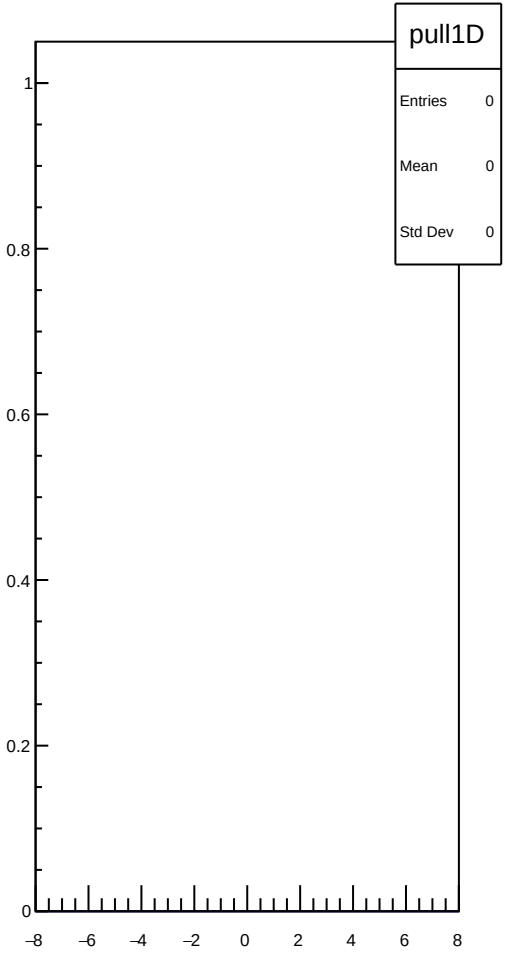
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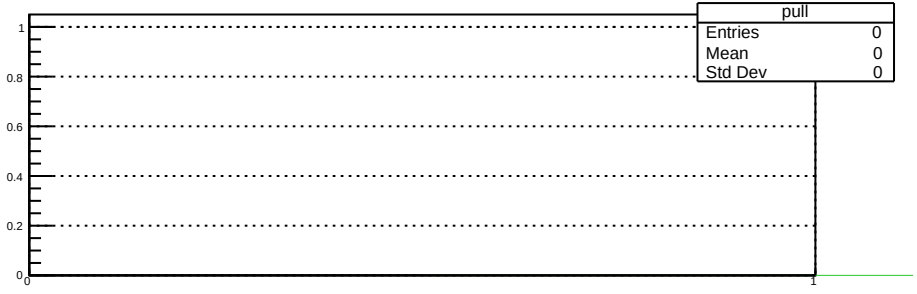
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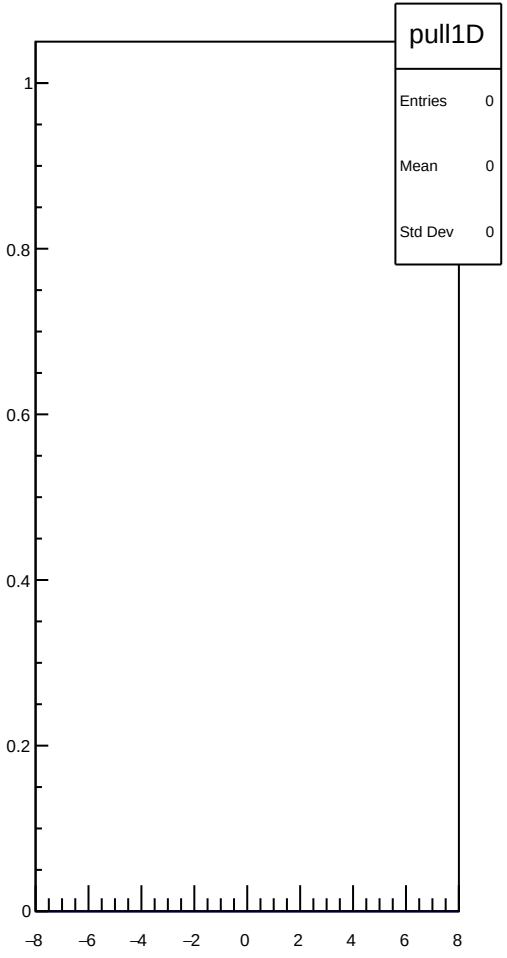
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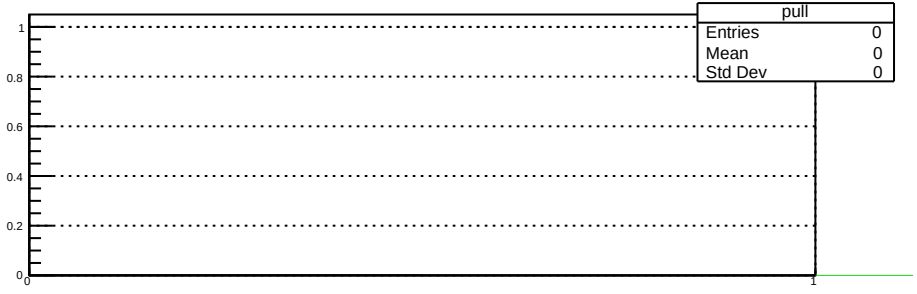
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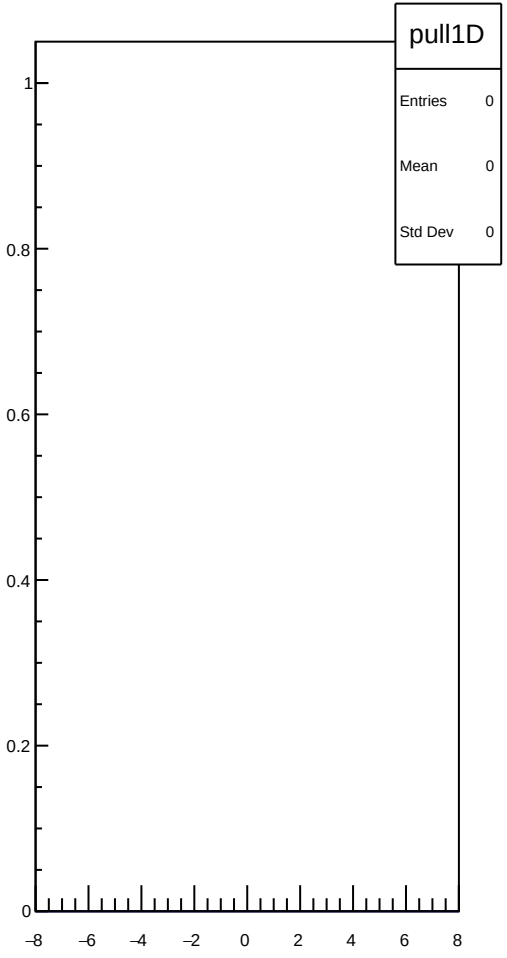
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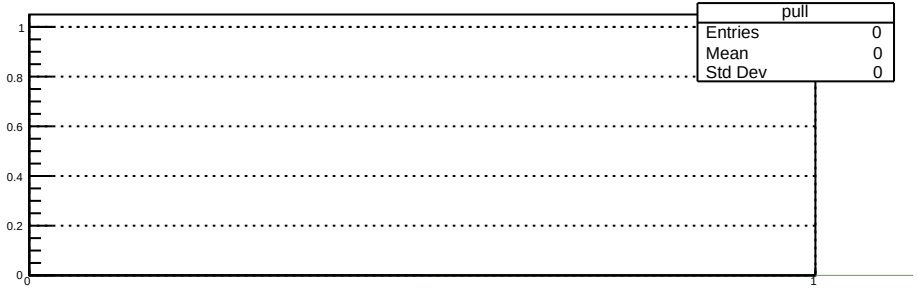
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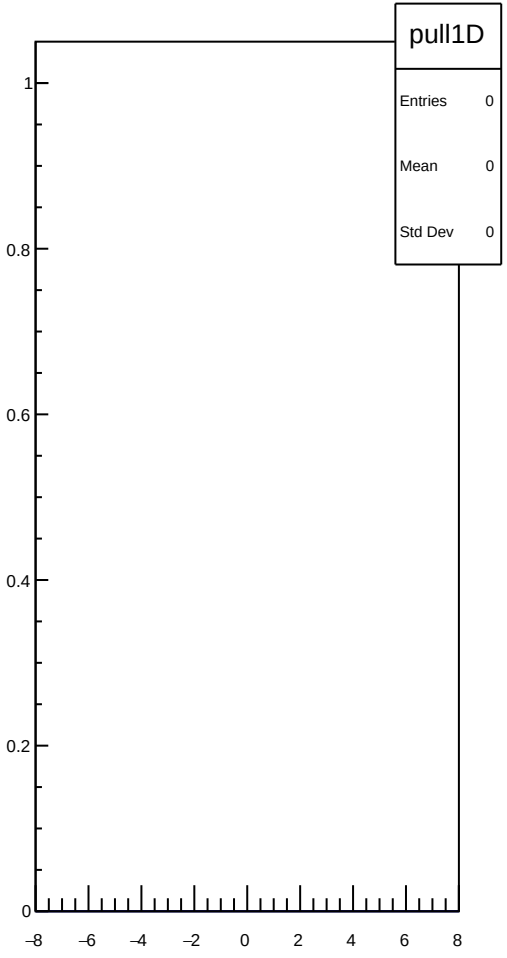
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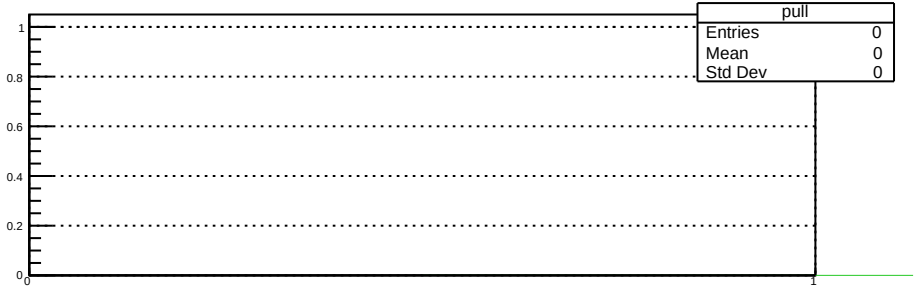
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Std Dev 0
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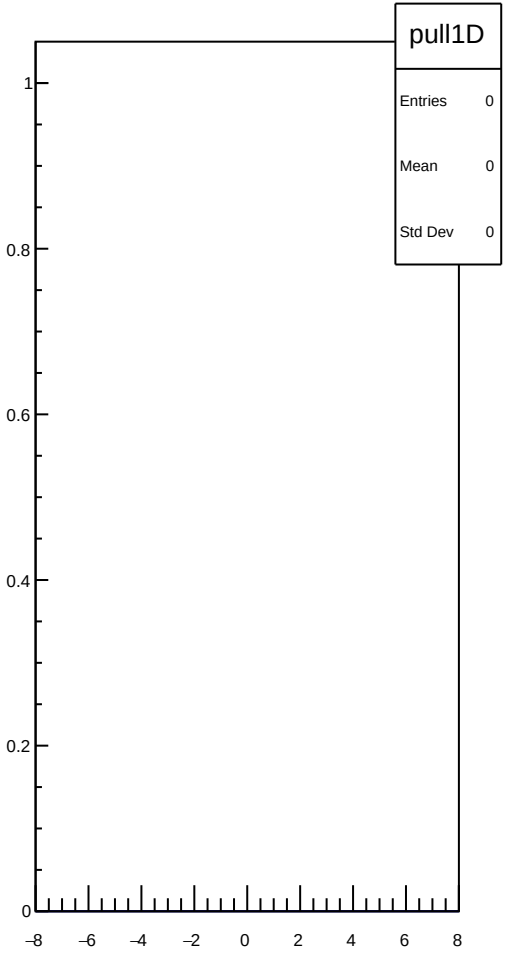
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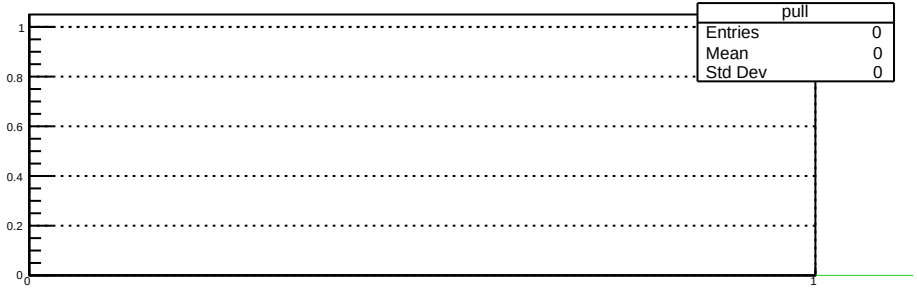
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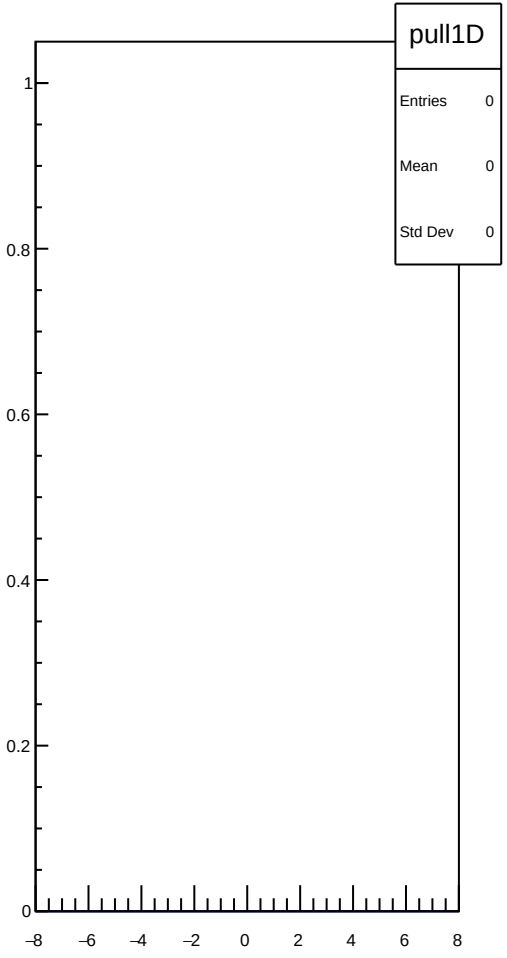
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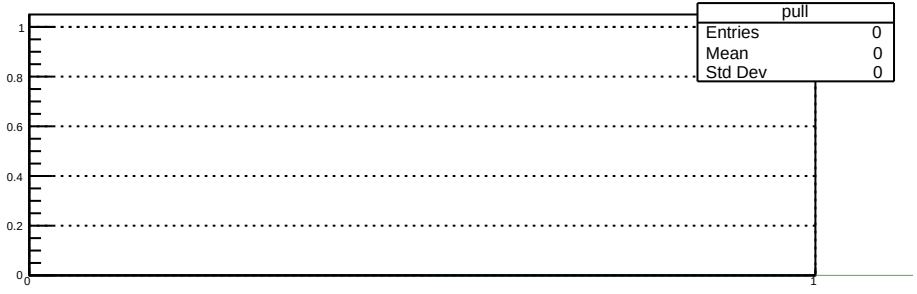
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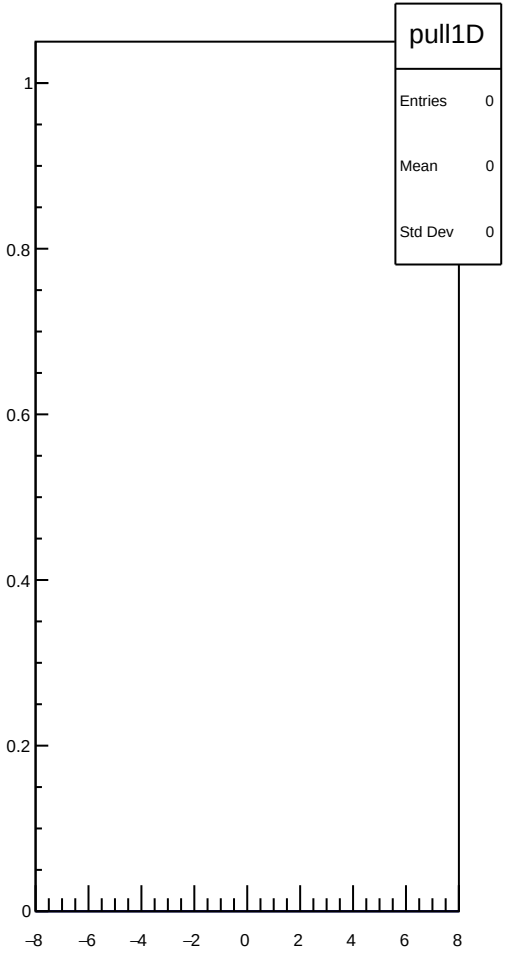
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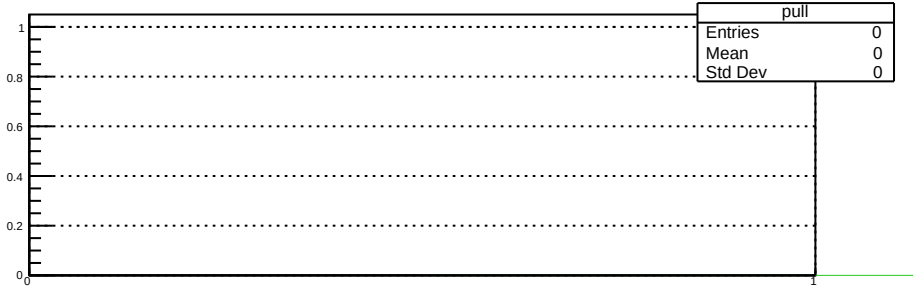
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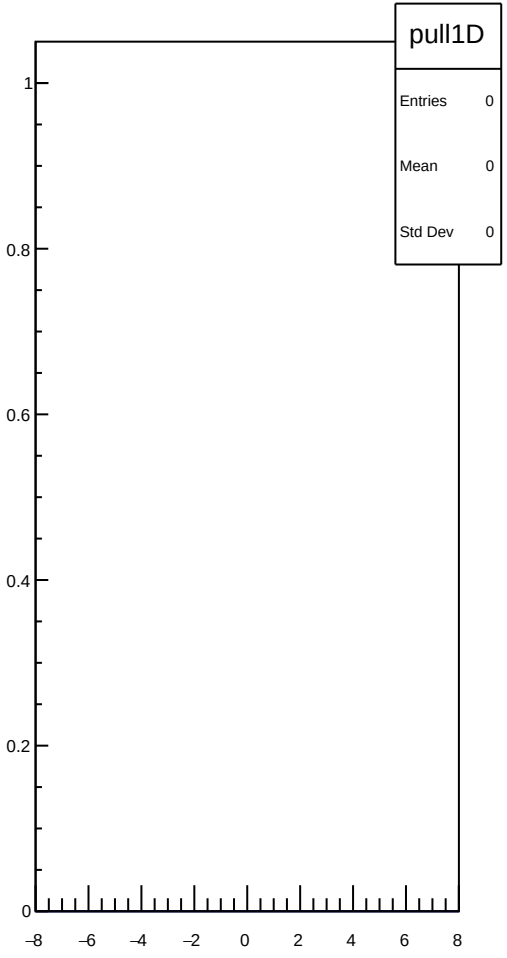
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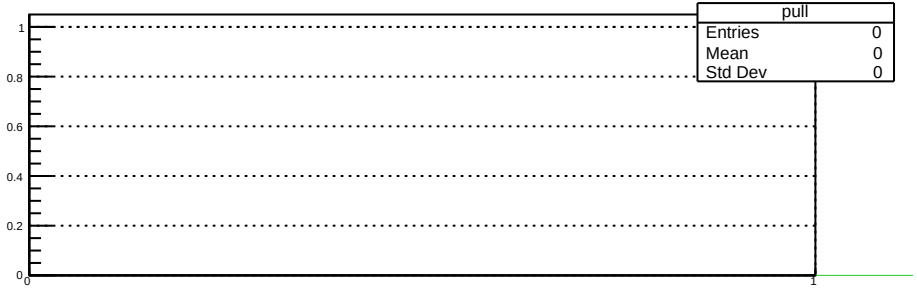
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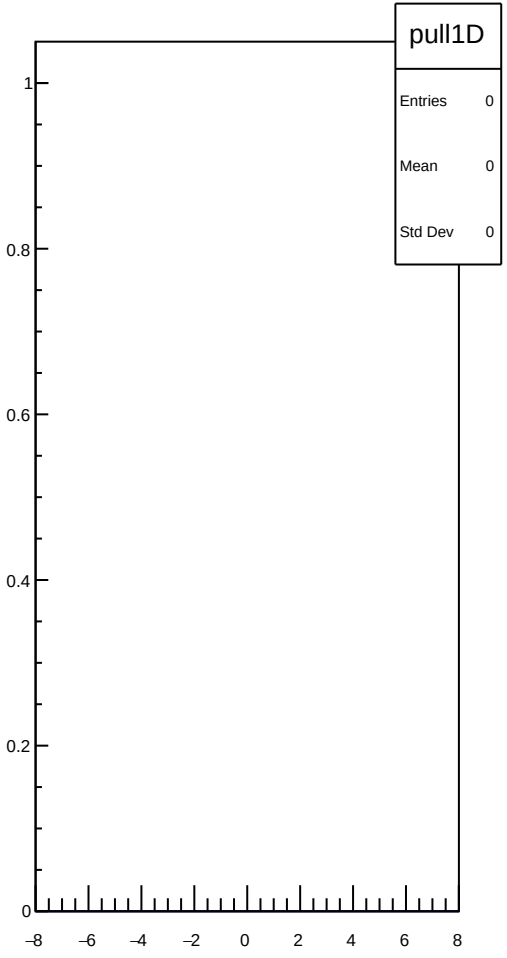
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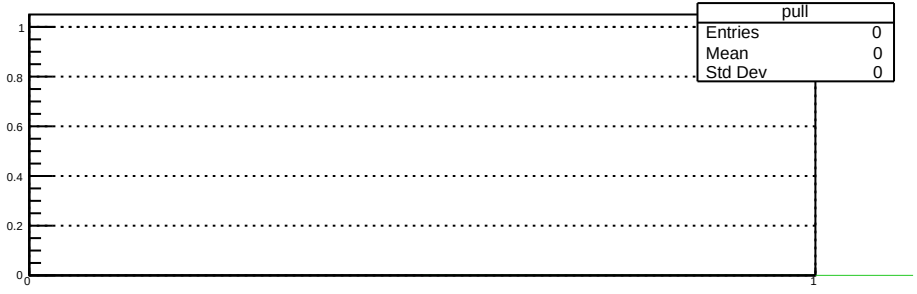
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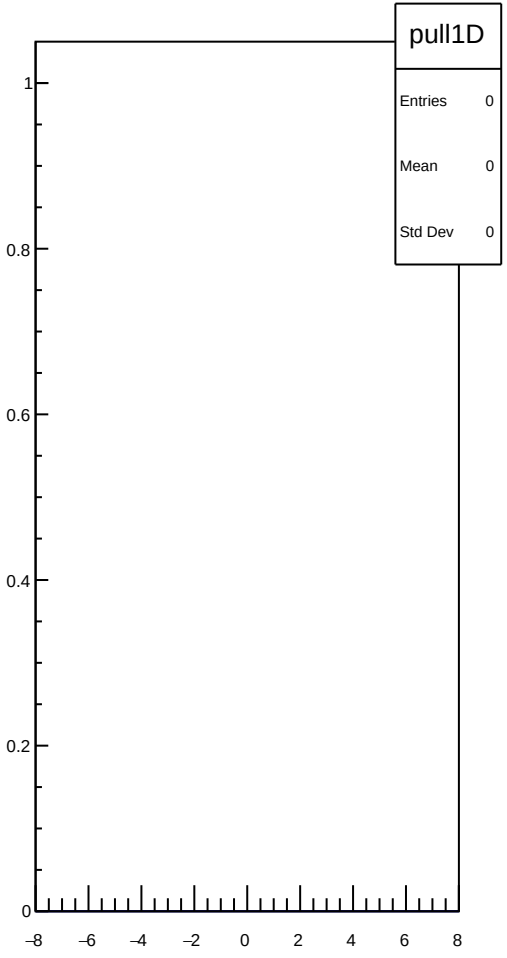
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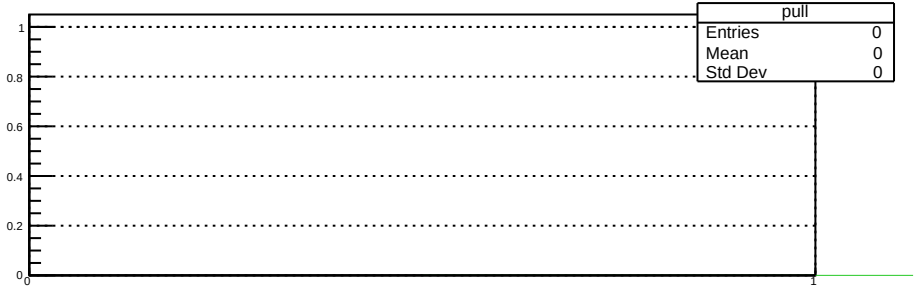
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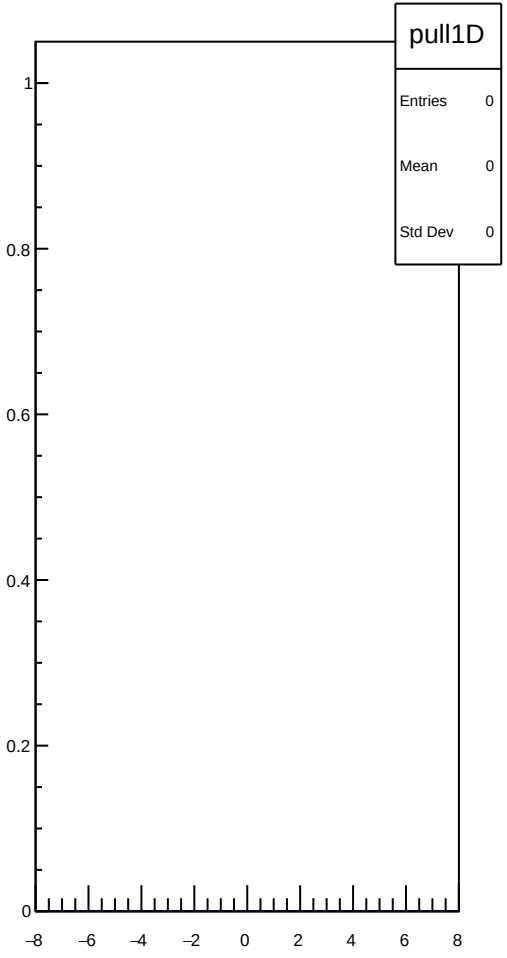
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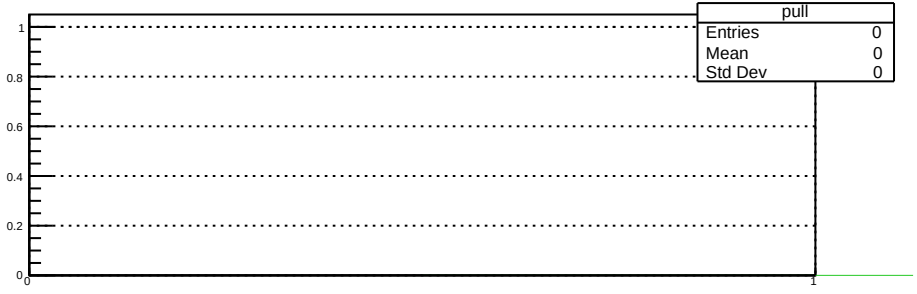
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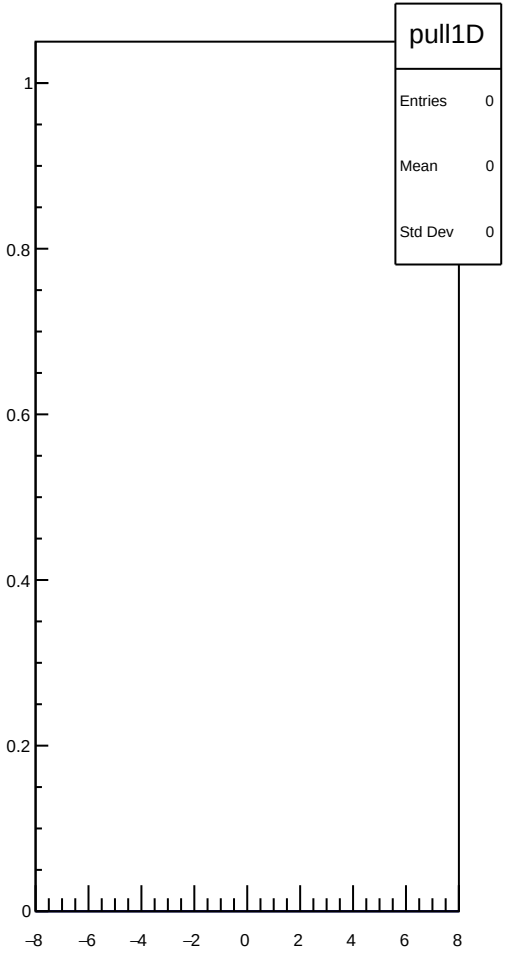
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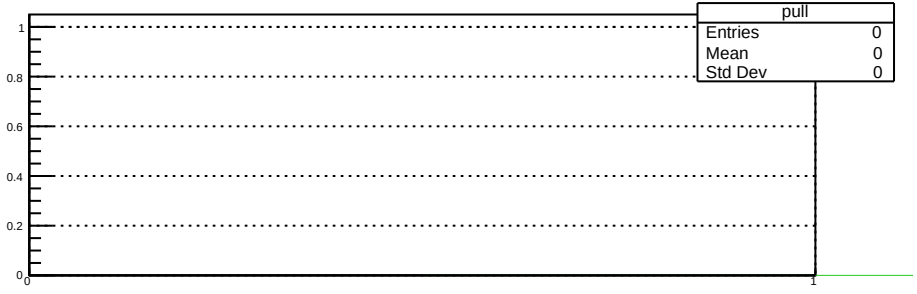
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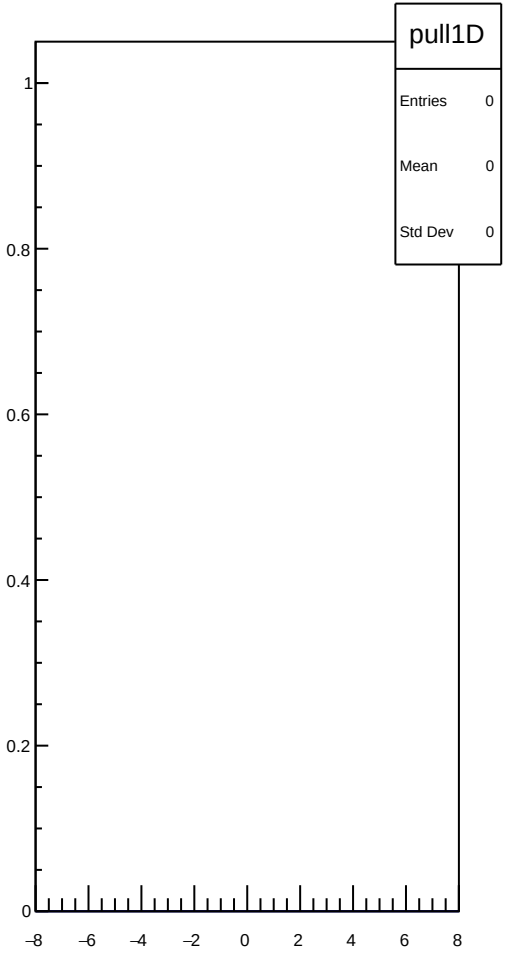
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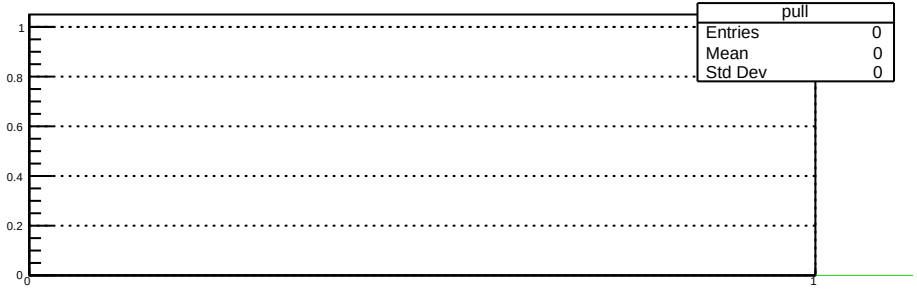
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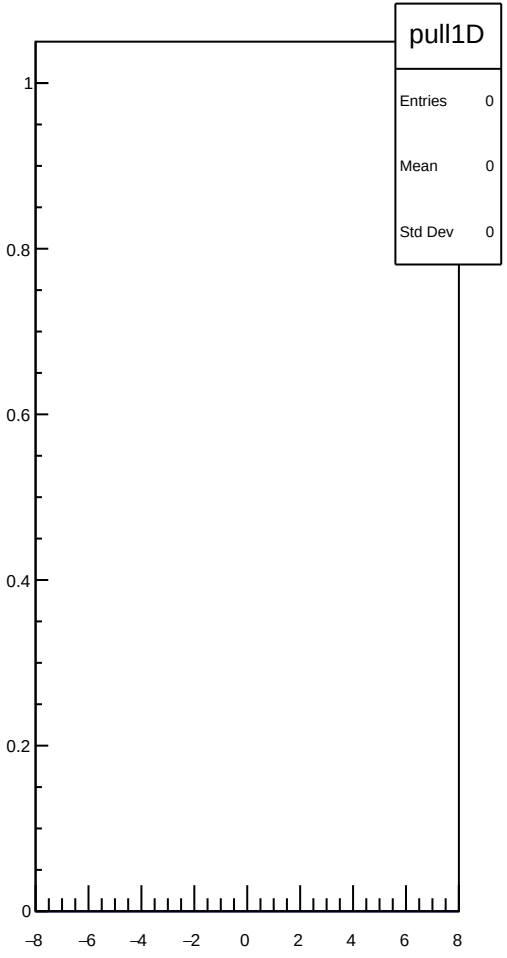
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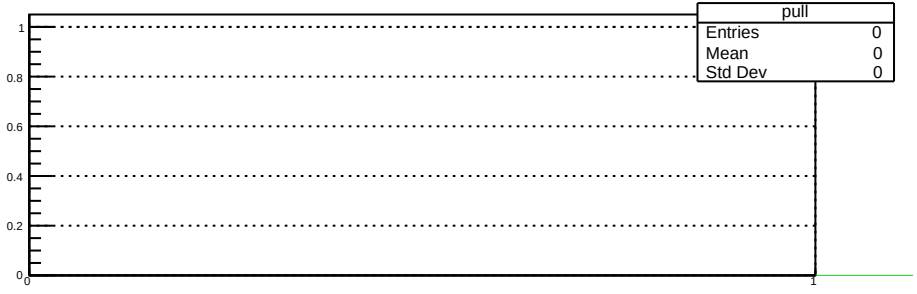
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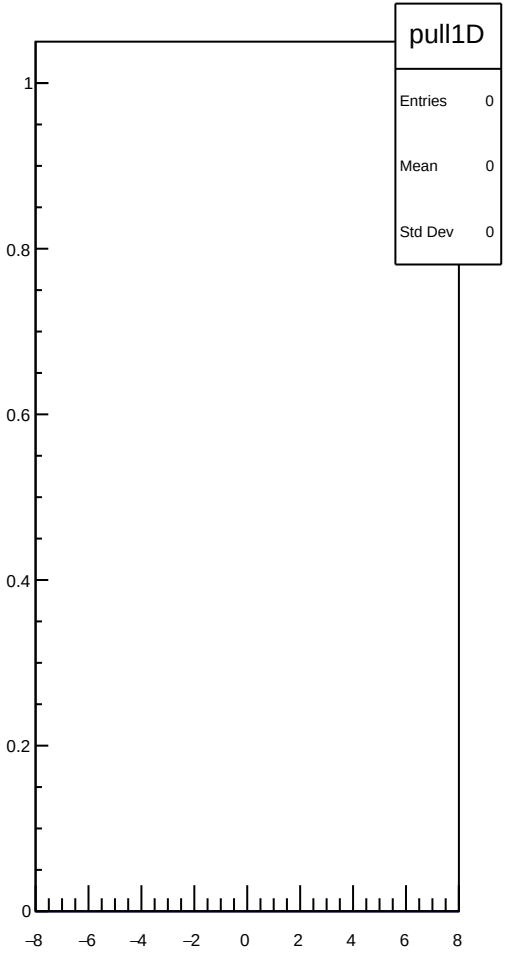
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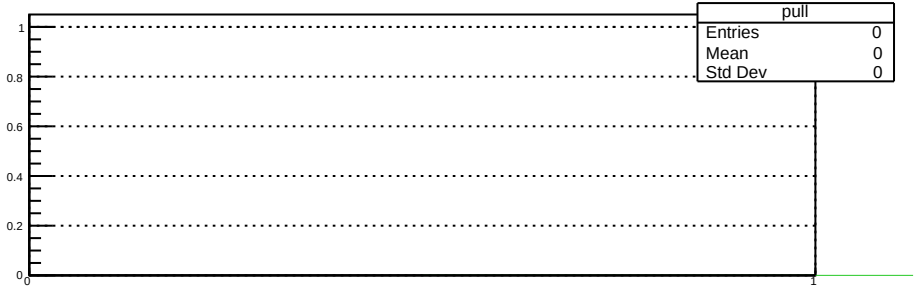
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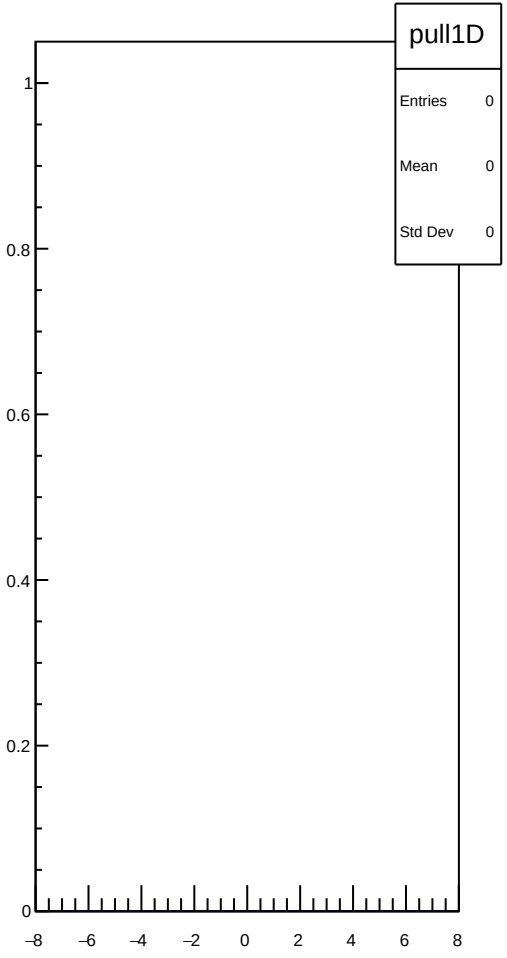
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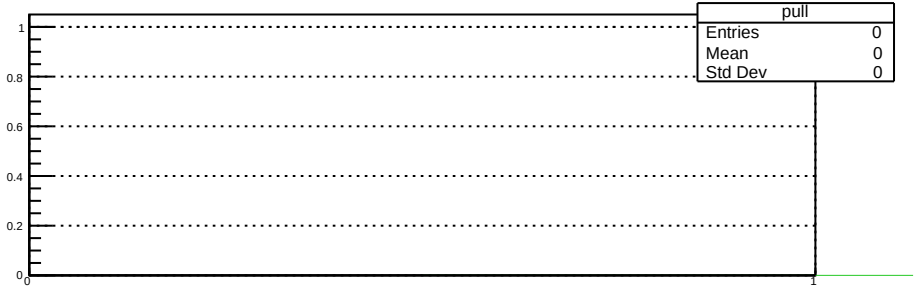
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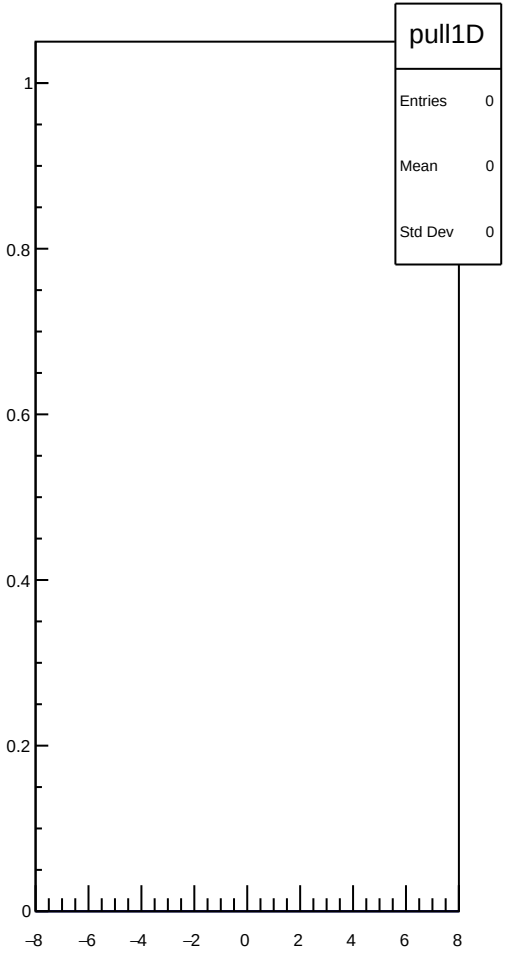
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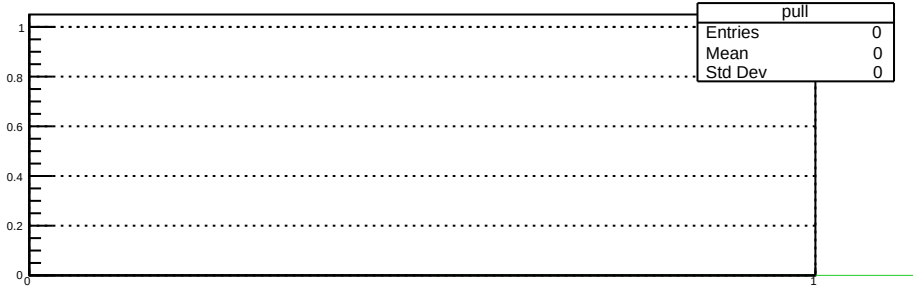
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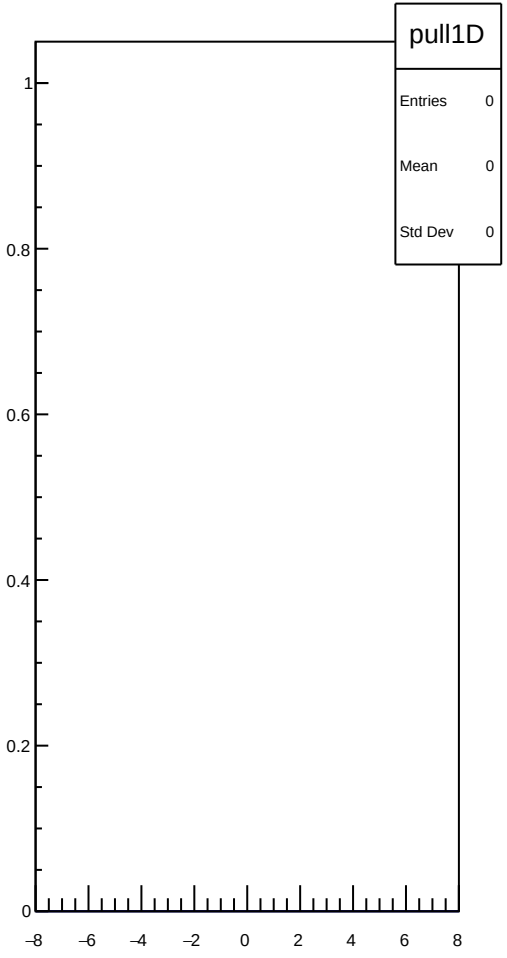
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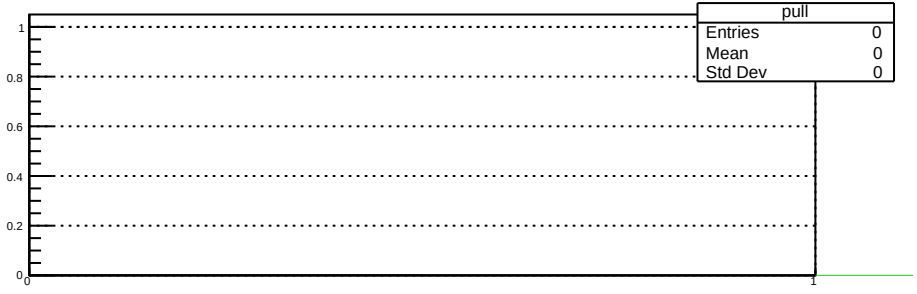
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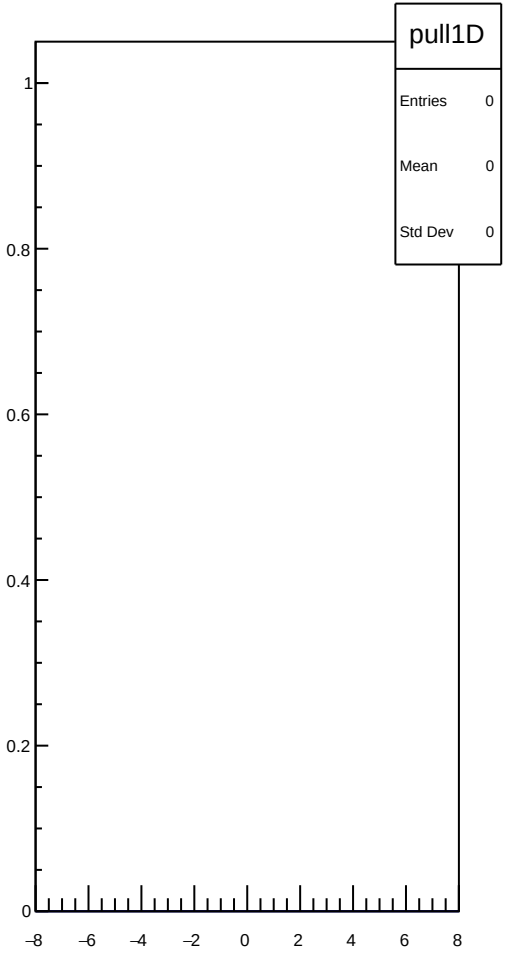
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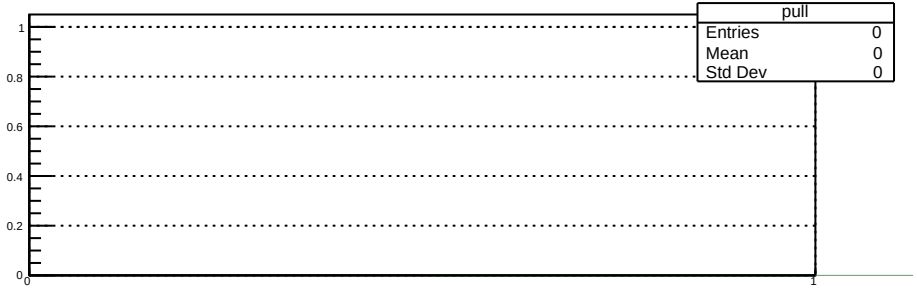
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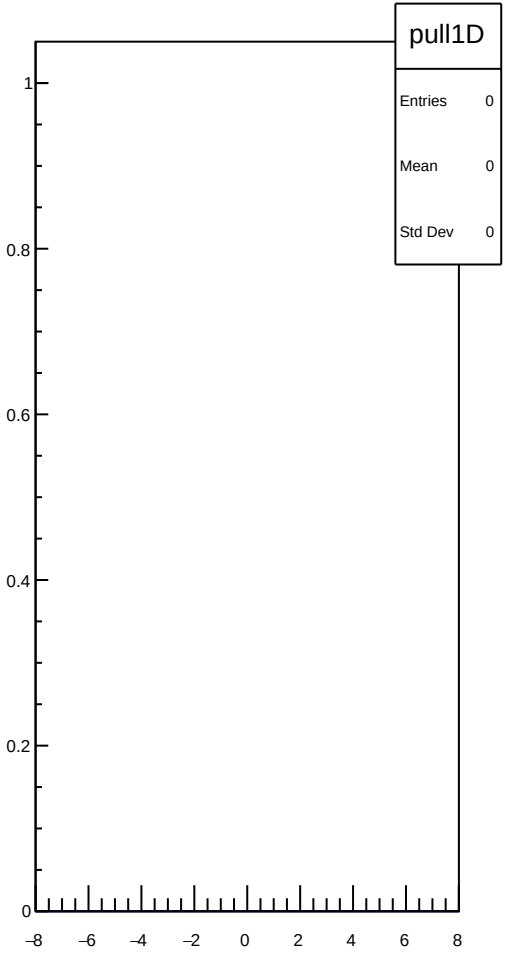
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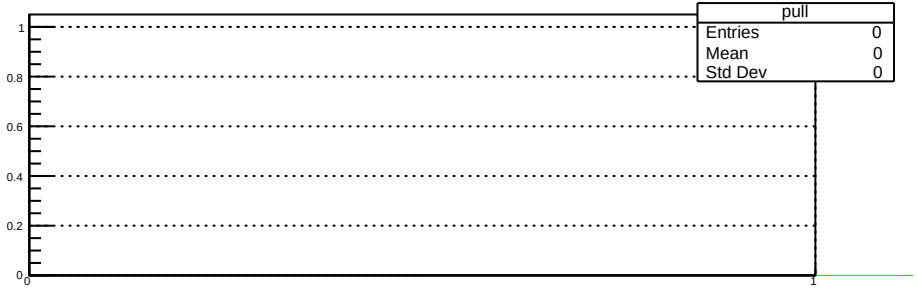
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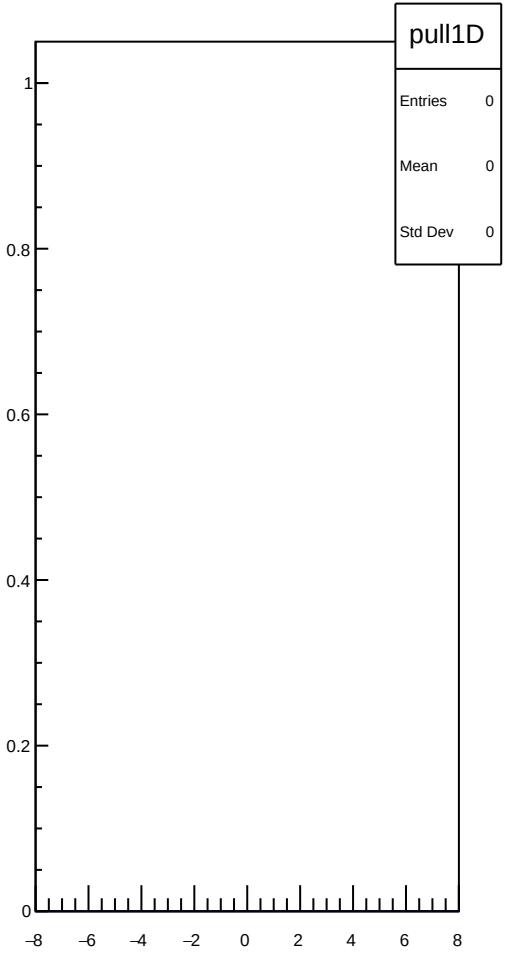
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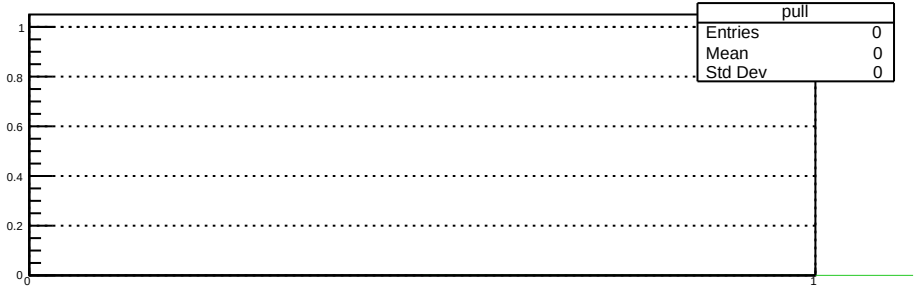
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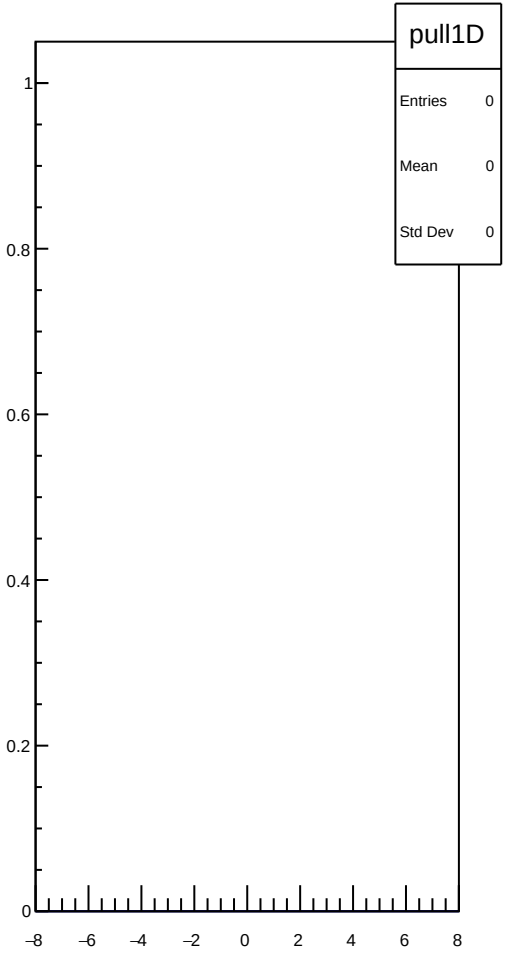
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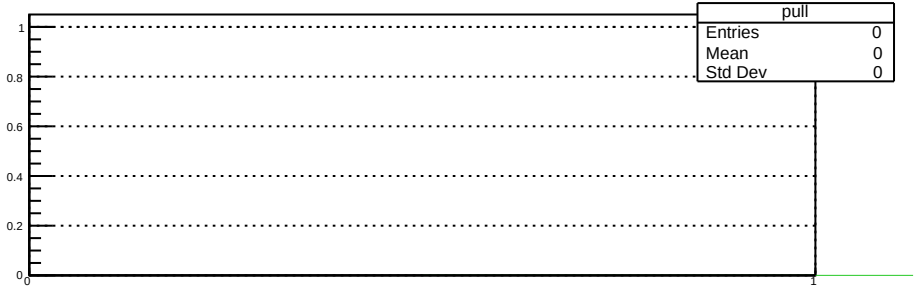
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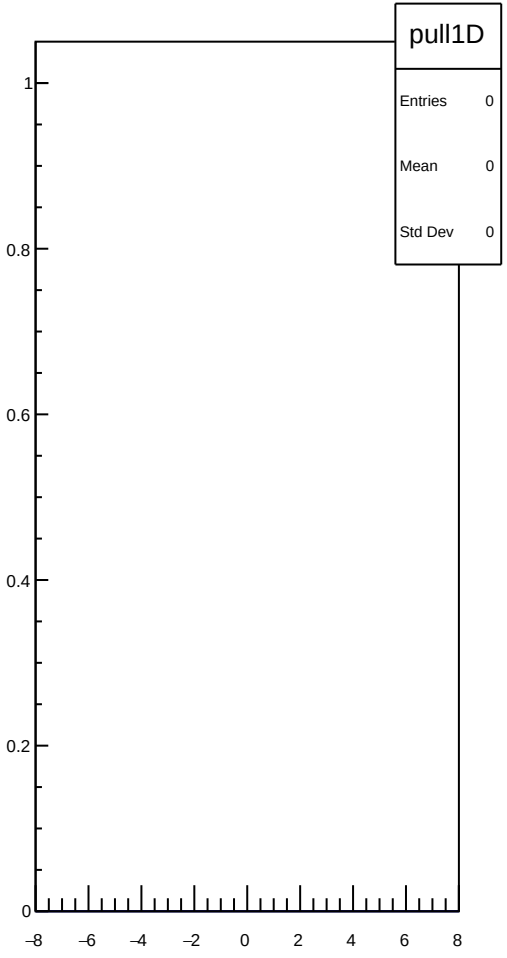
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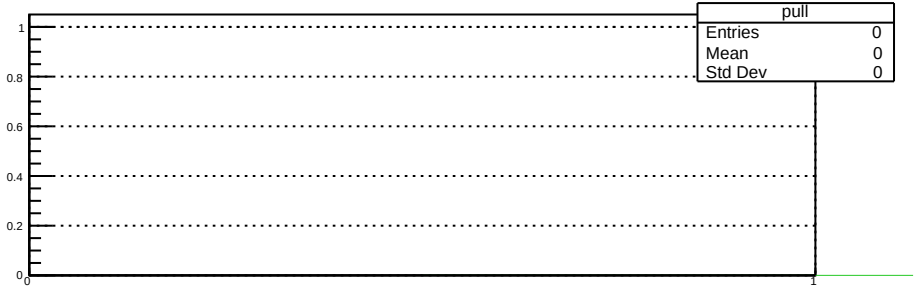
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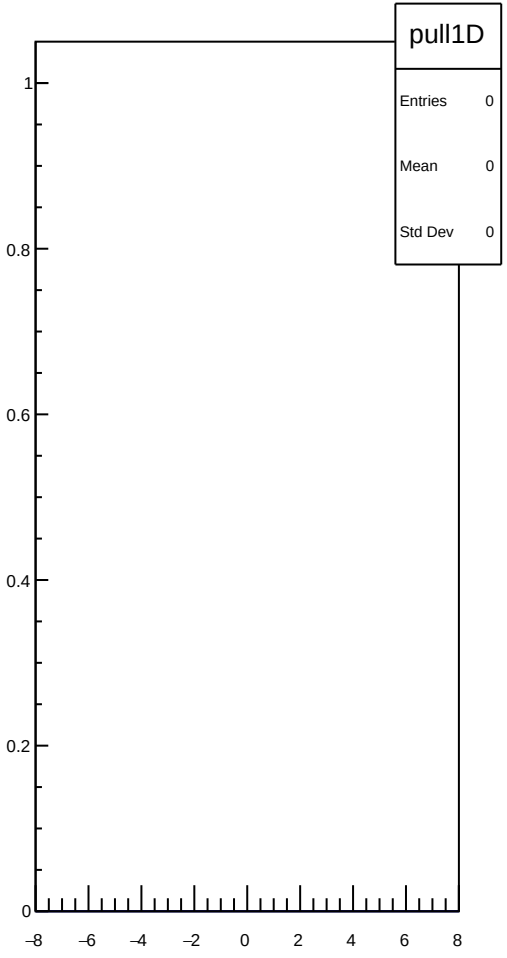
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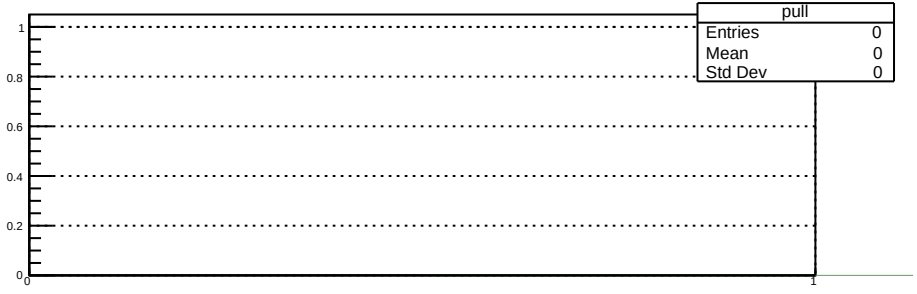
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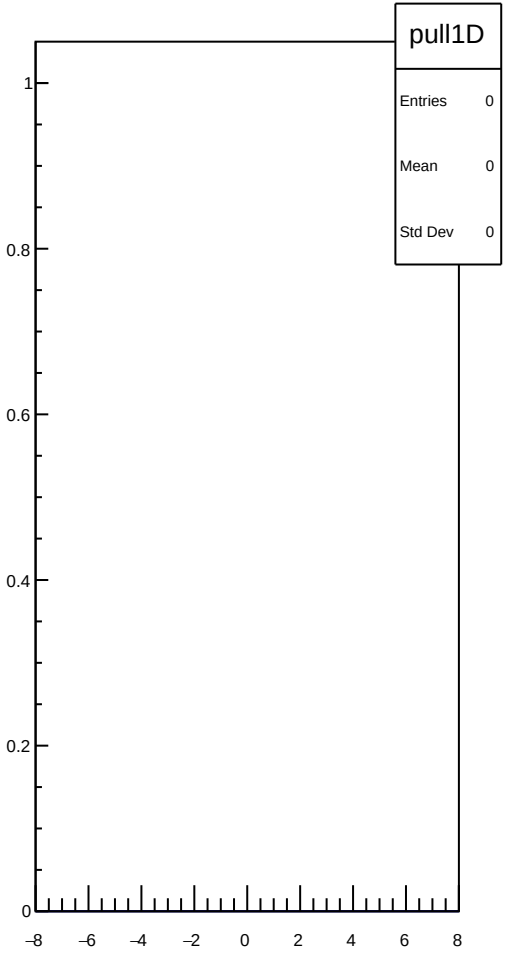
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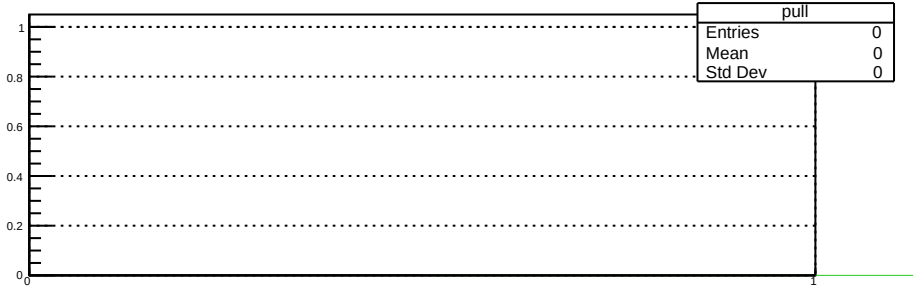
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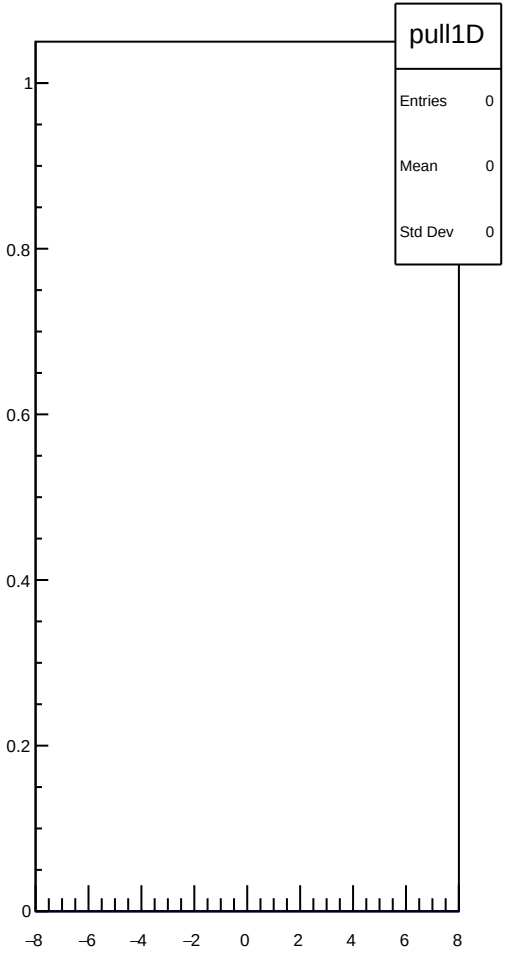
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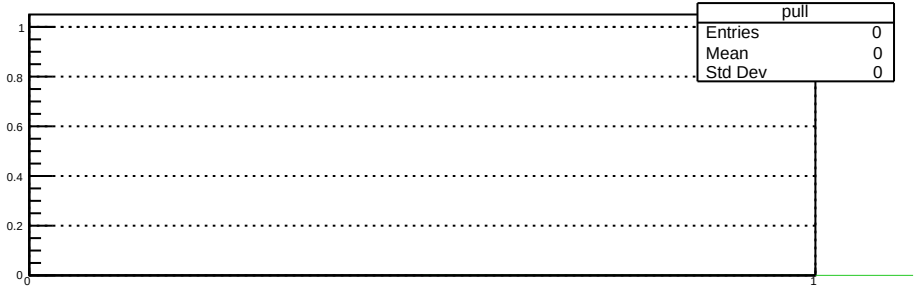
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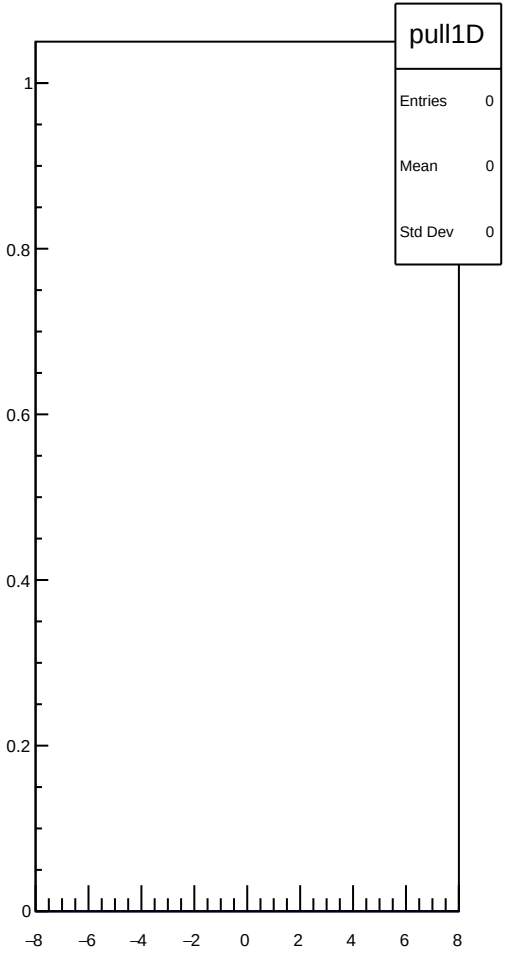
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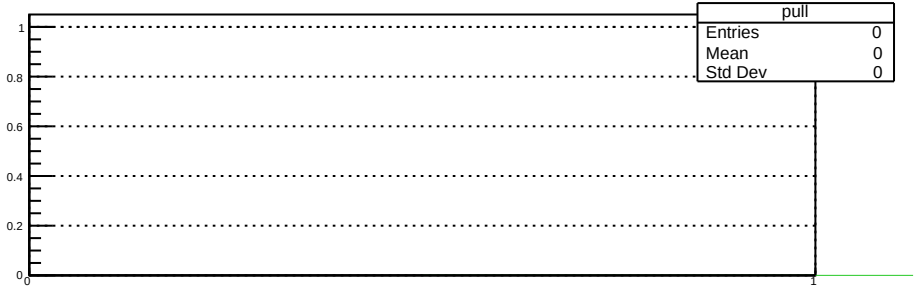
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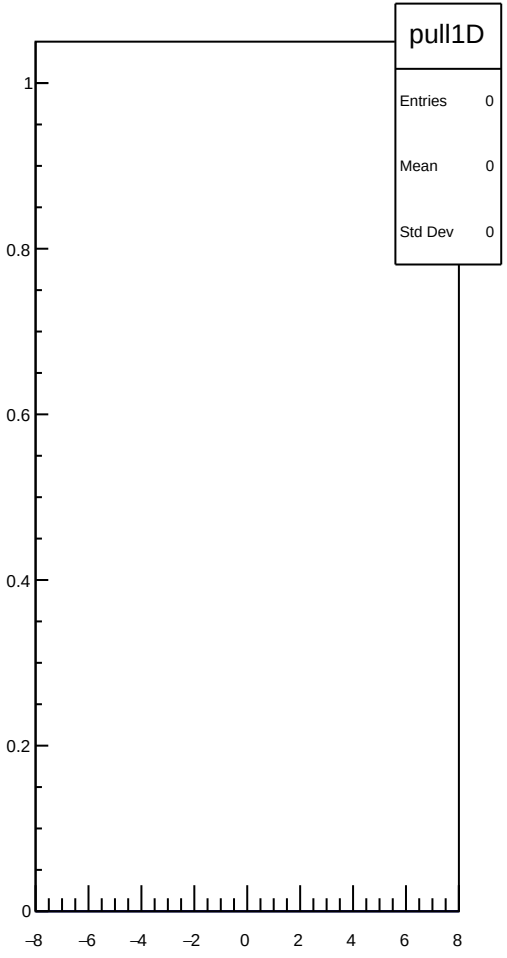
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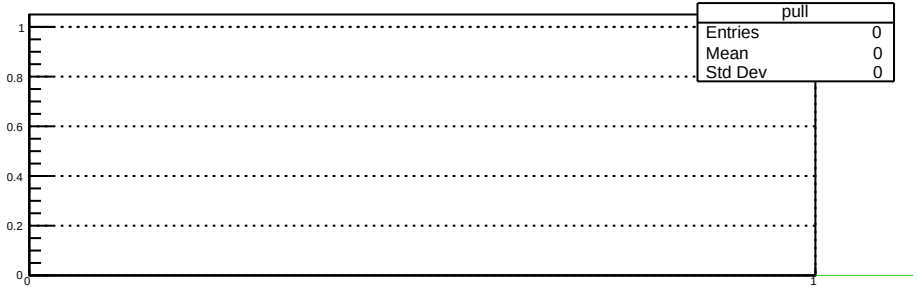
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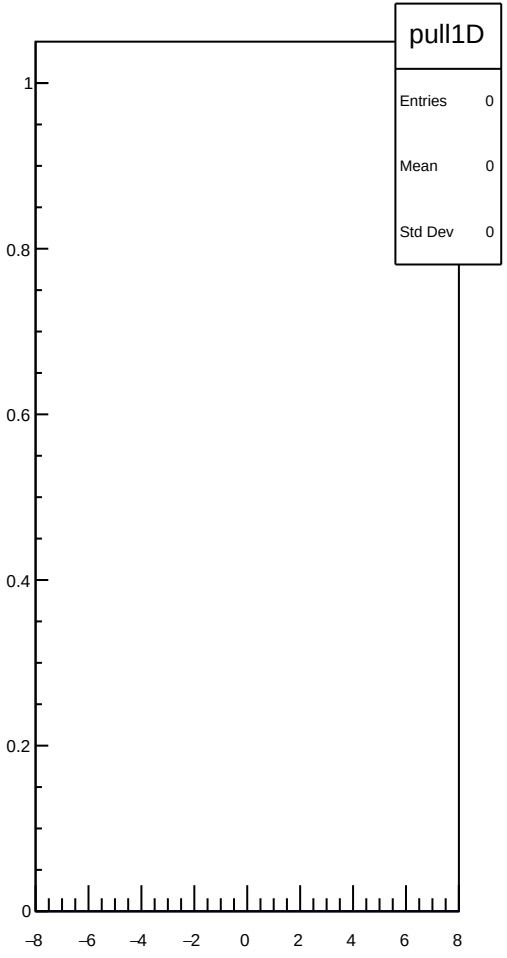
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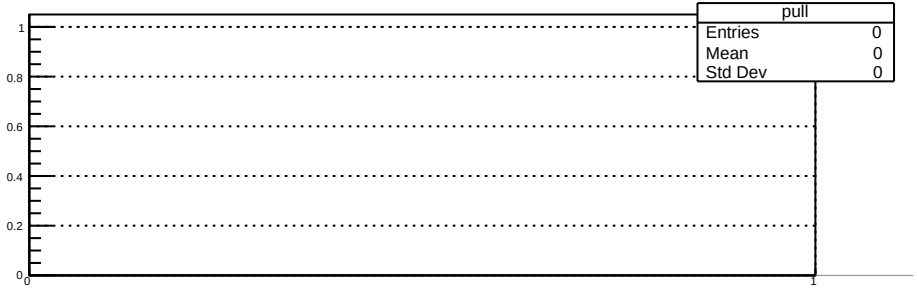
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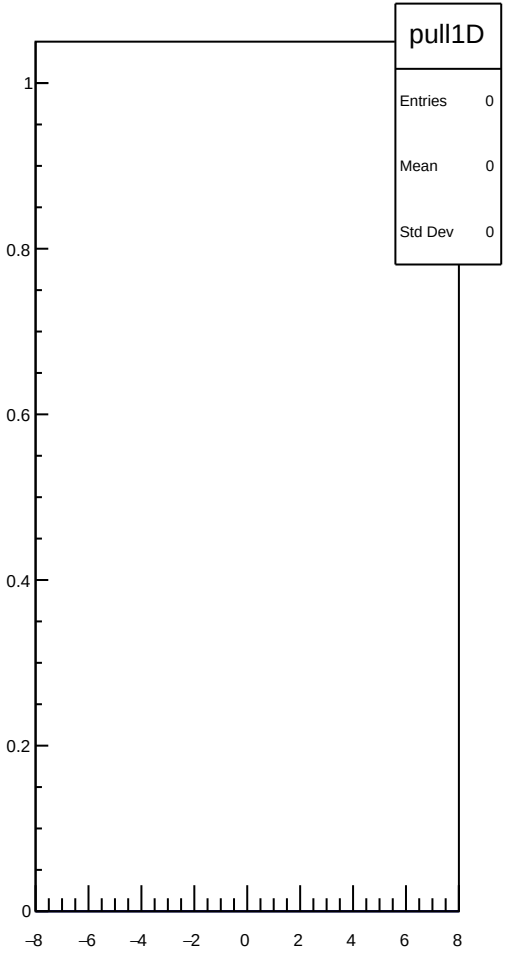
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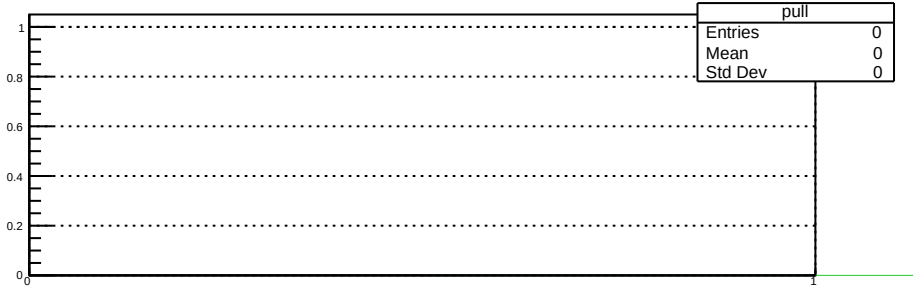
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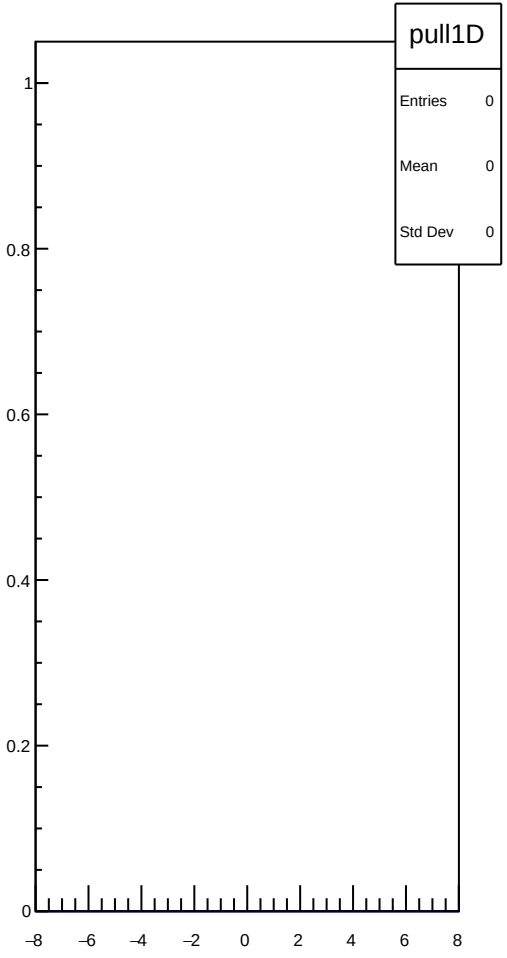
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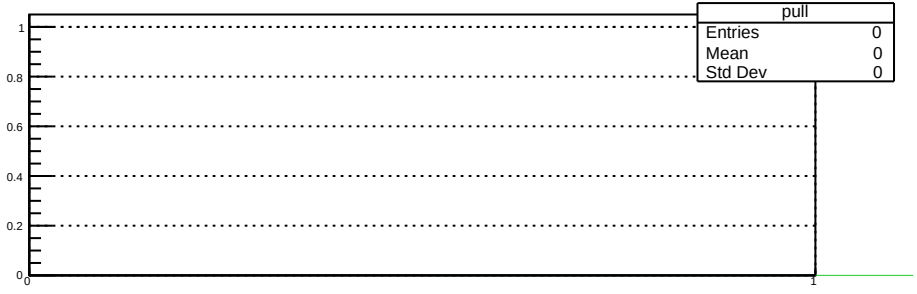
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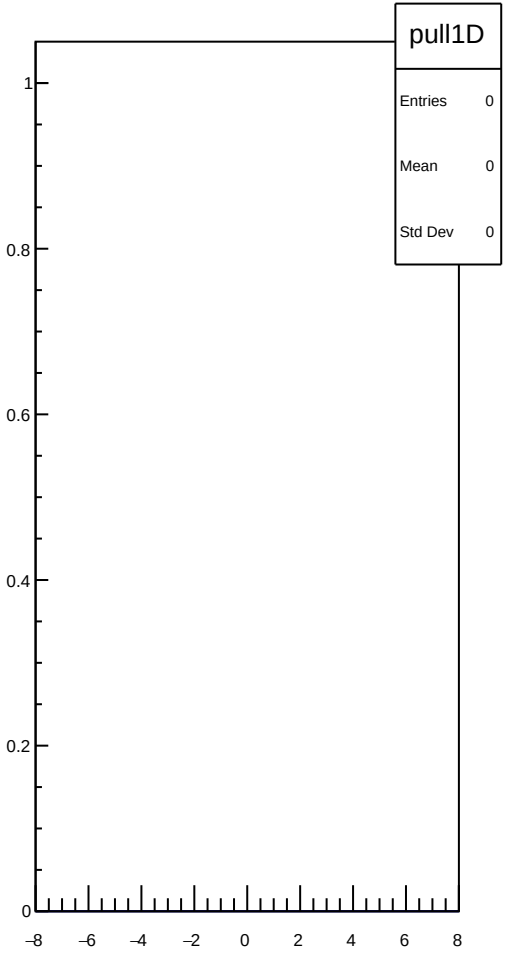
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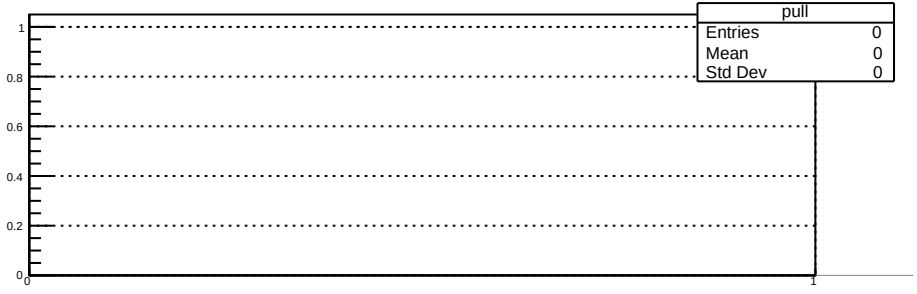
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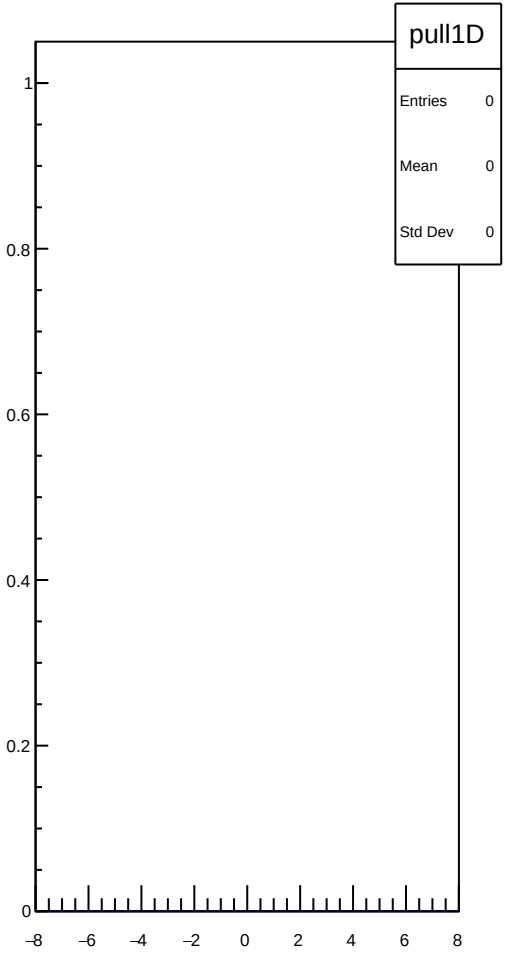
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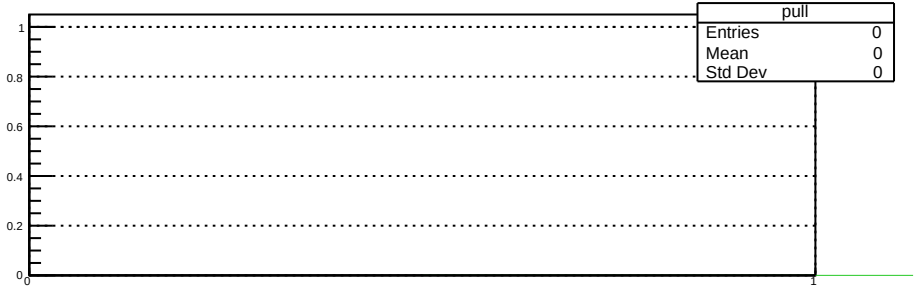
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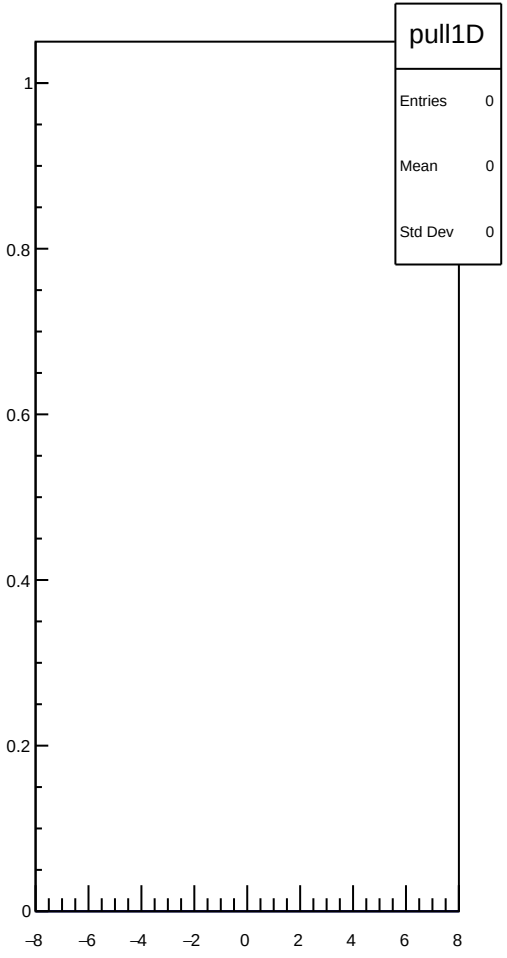
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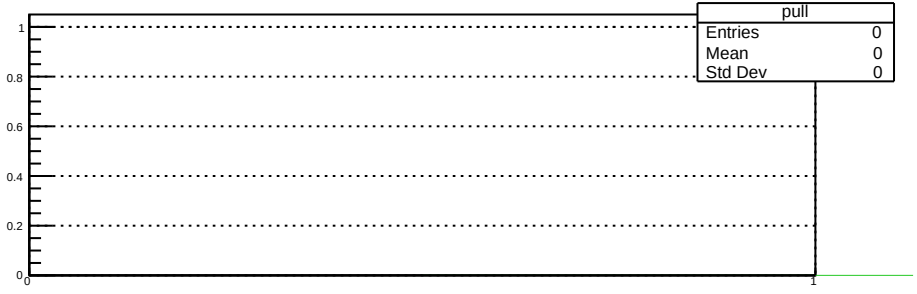
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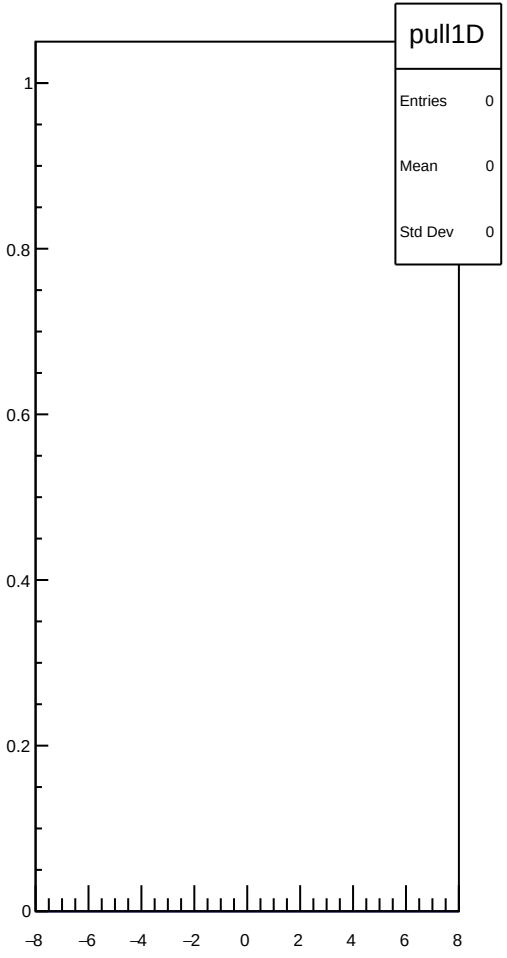
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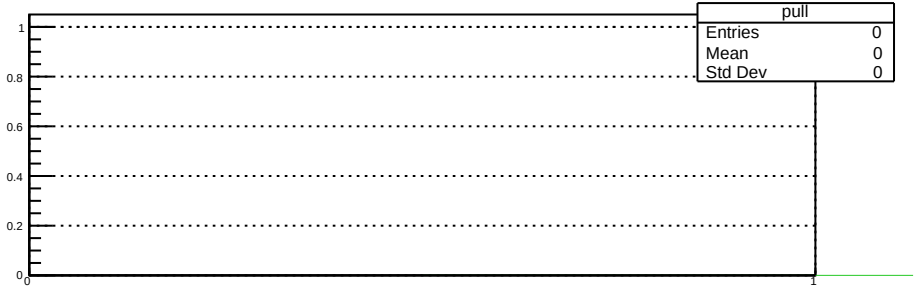
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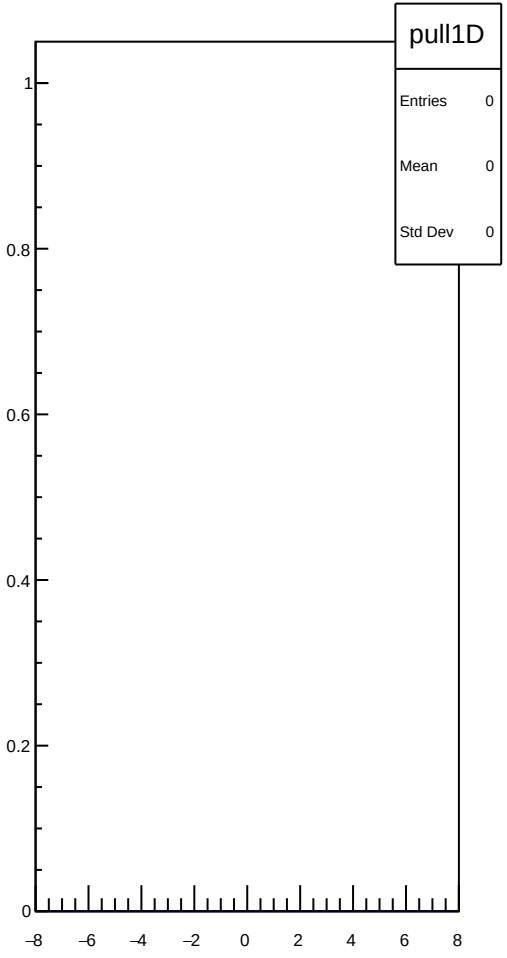
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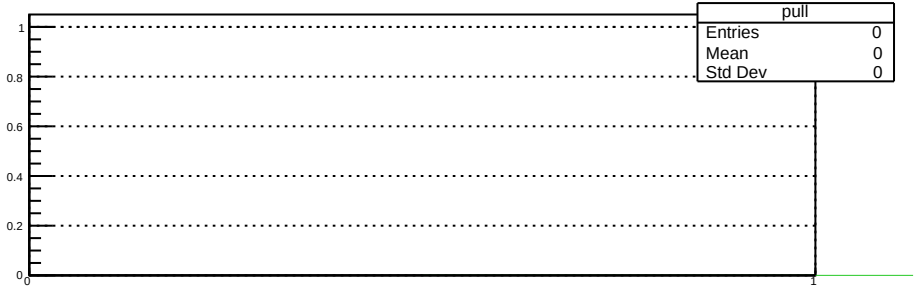
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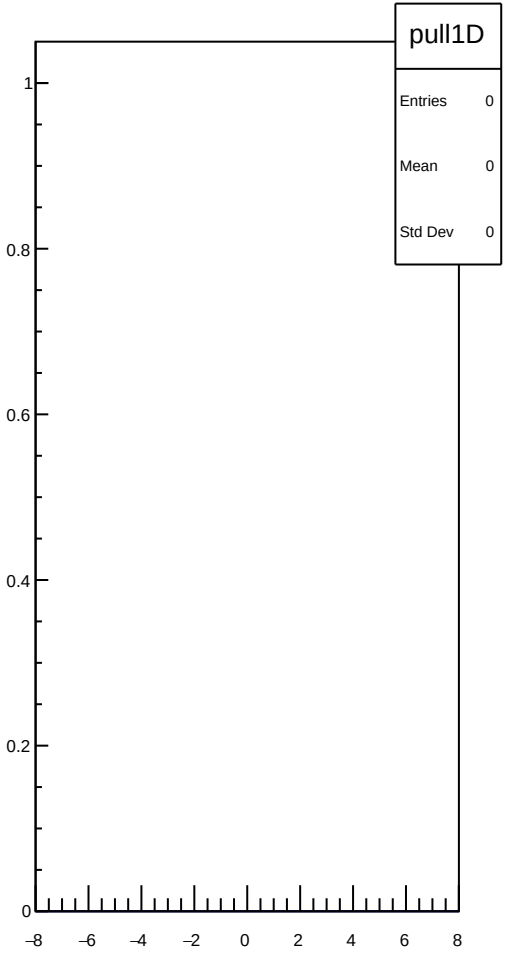
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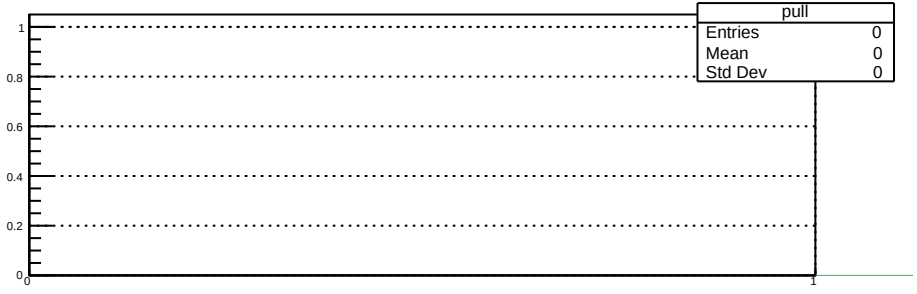
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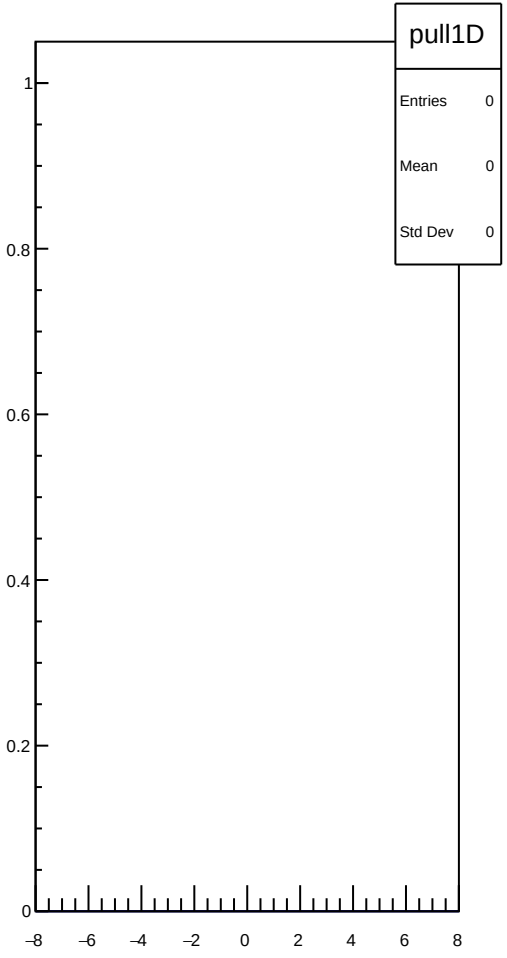
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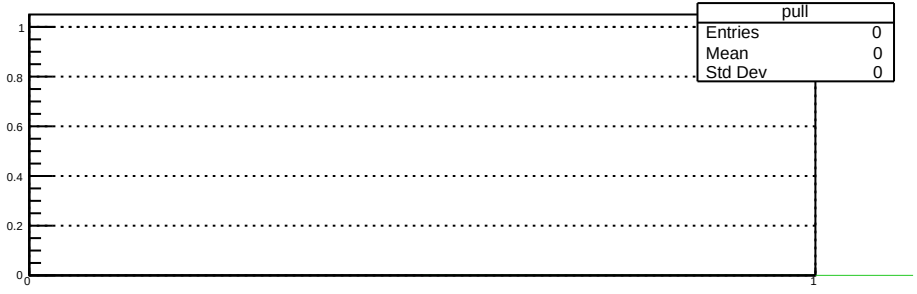
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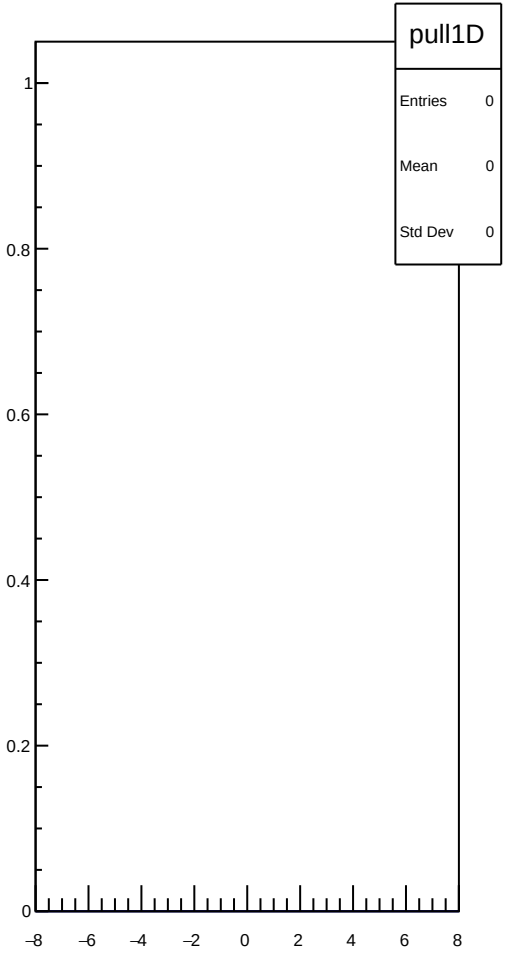
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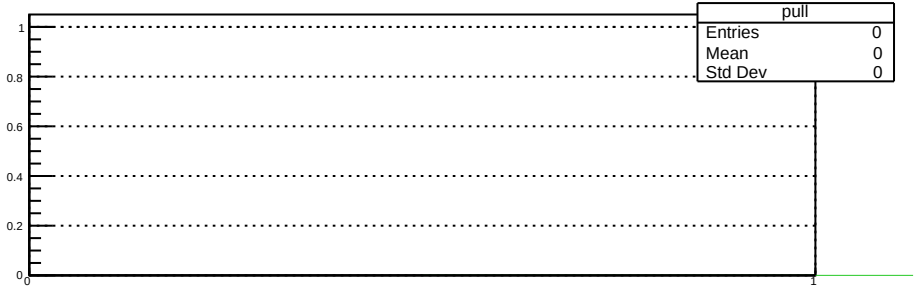
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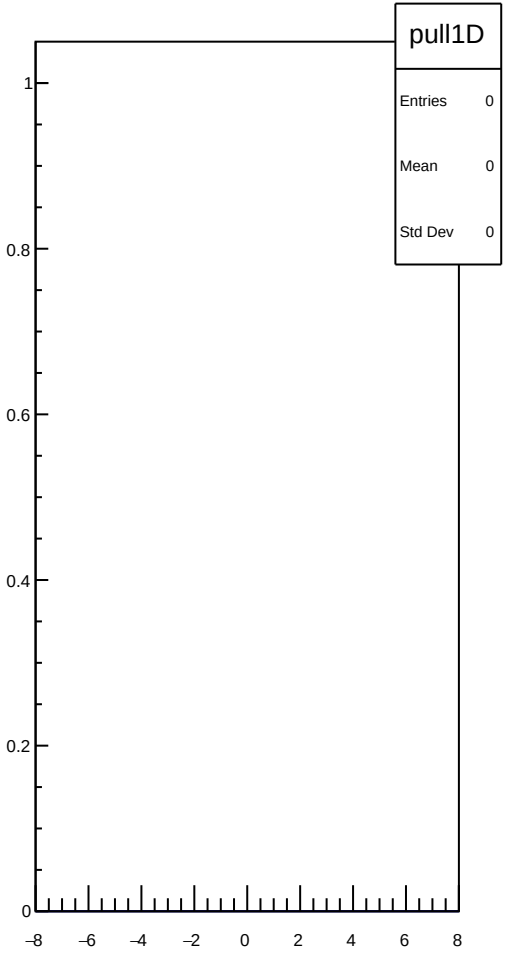
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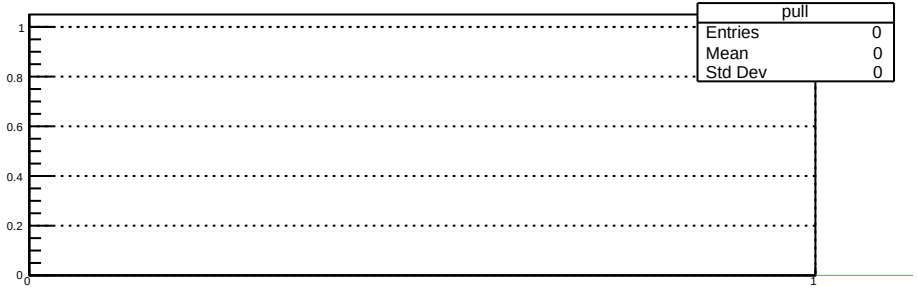
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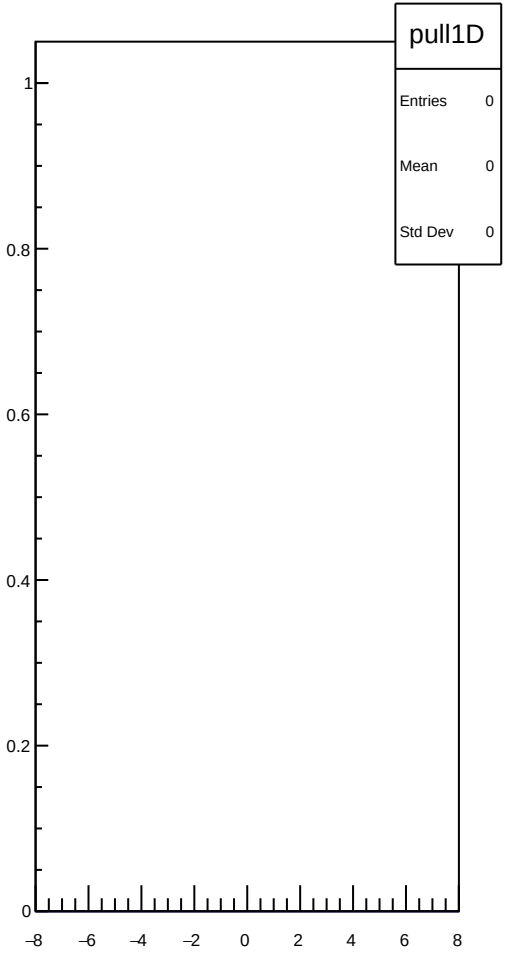
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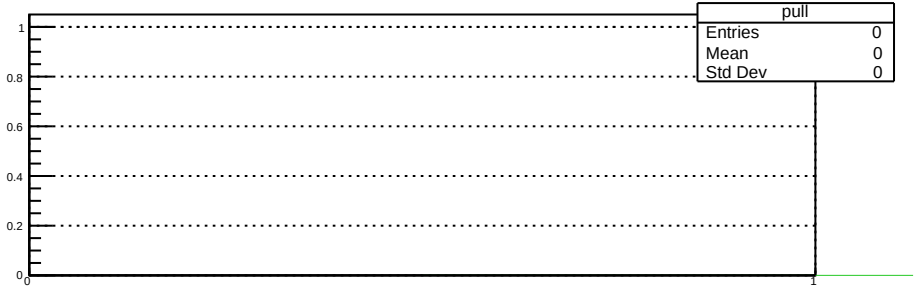
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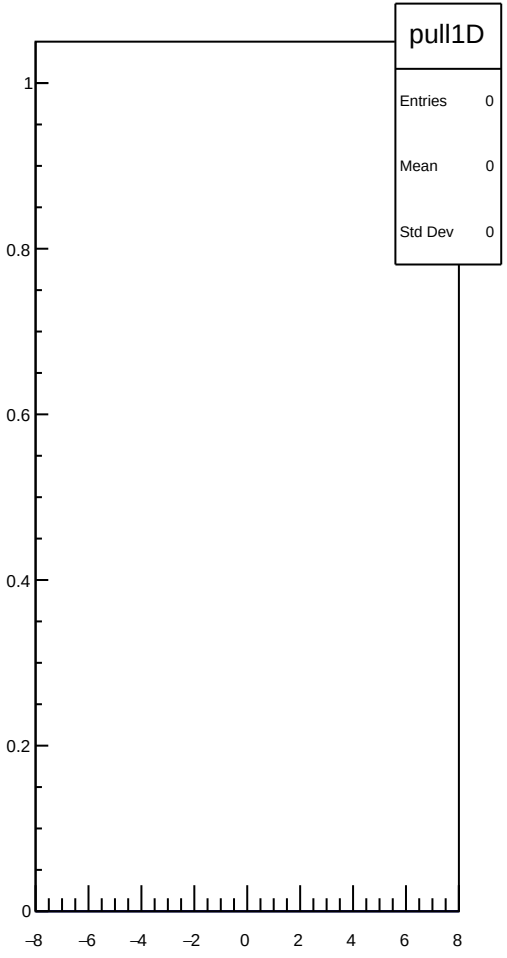
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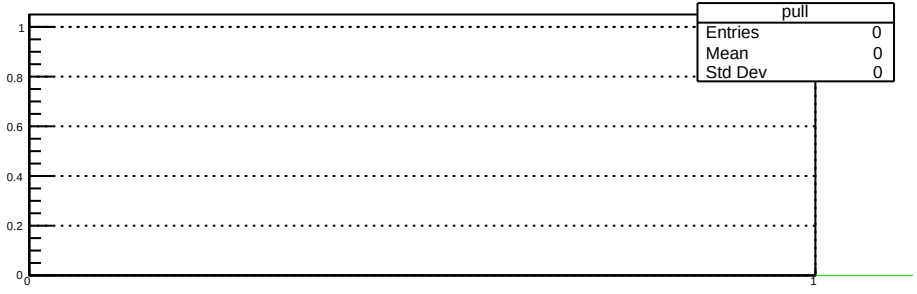
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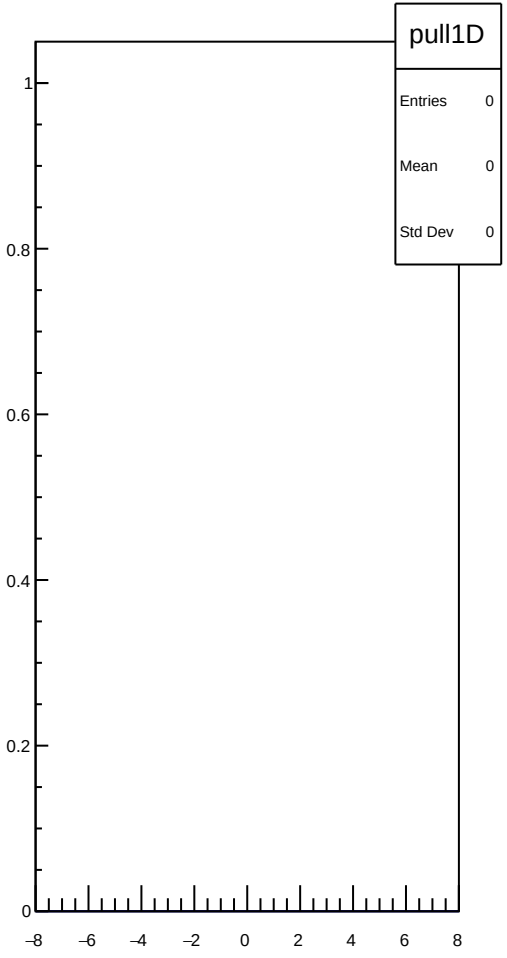
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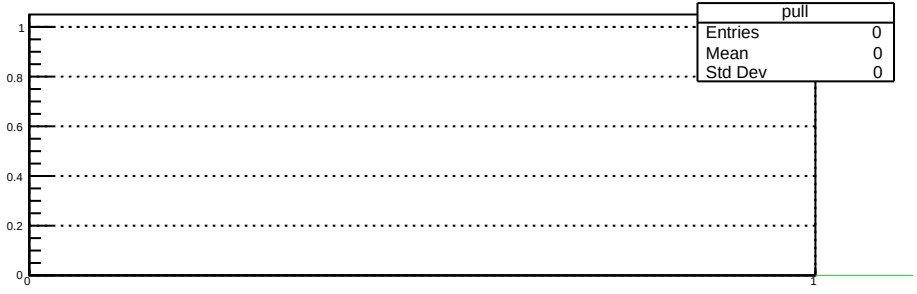
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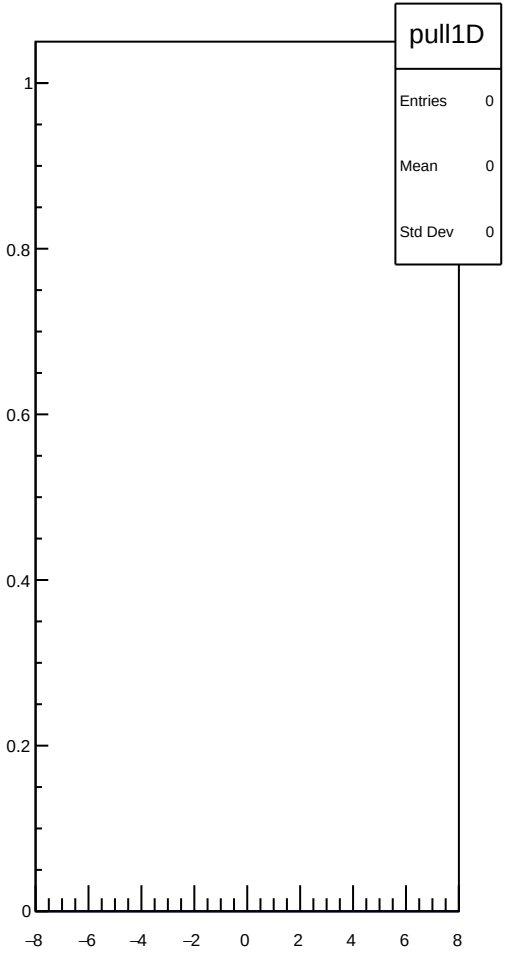
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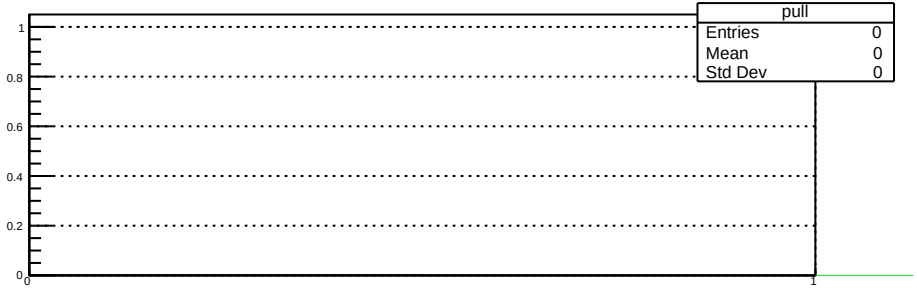
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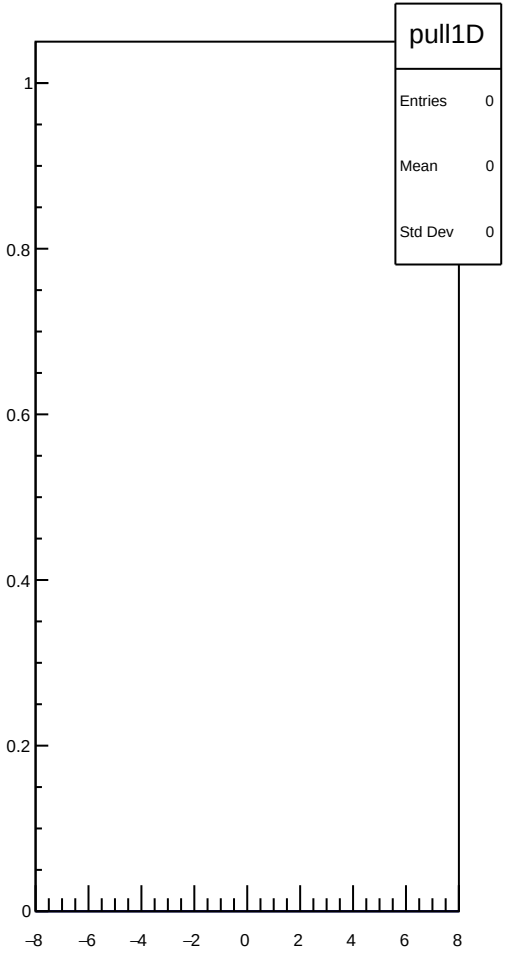
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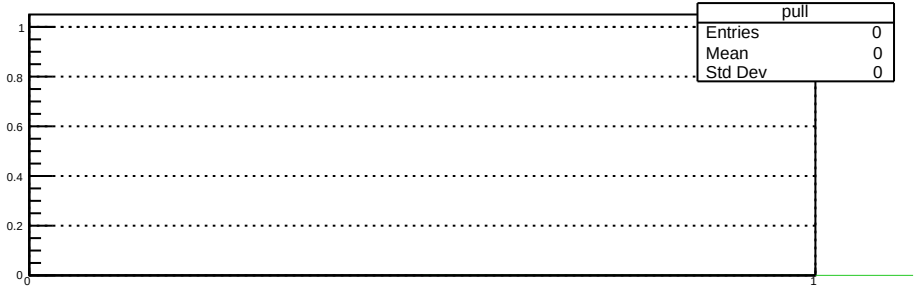
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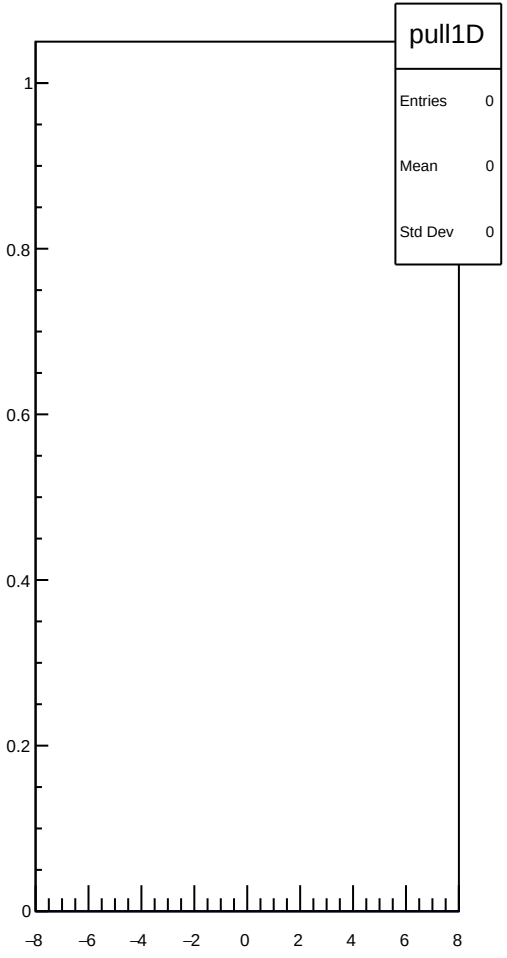
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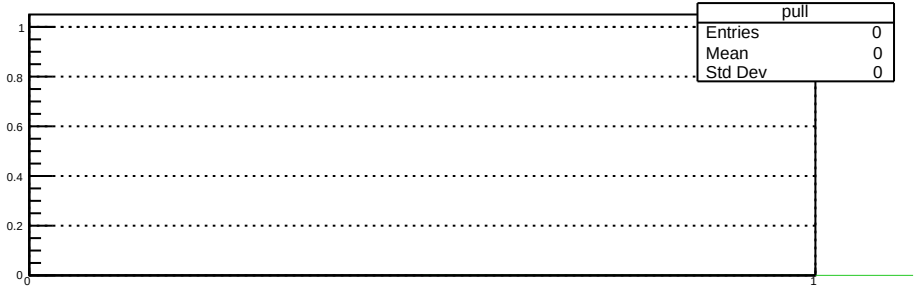
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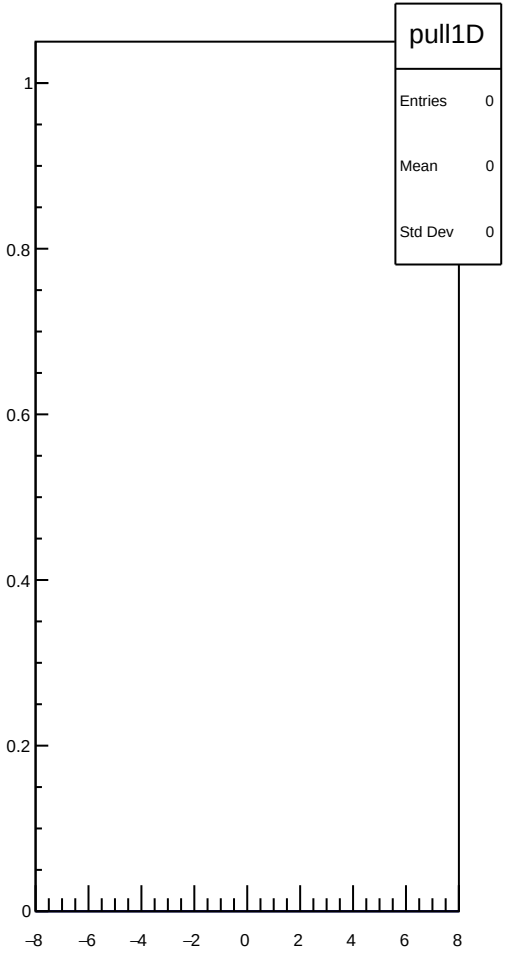
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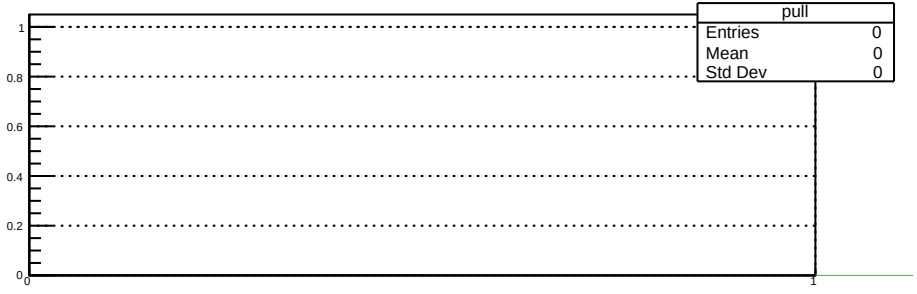
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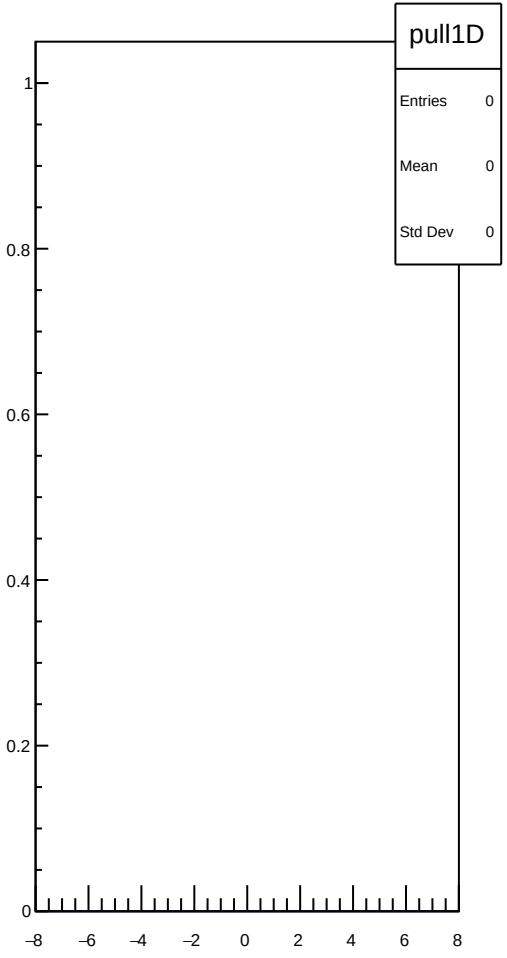
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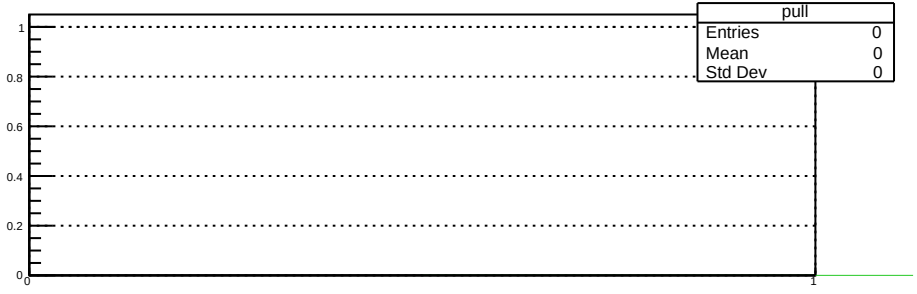
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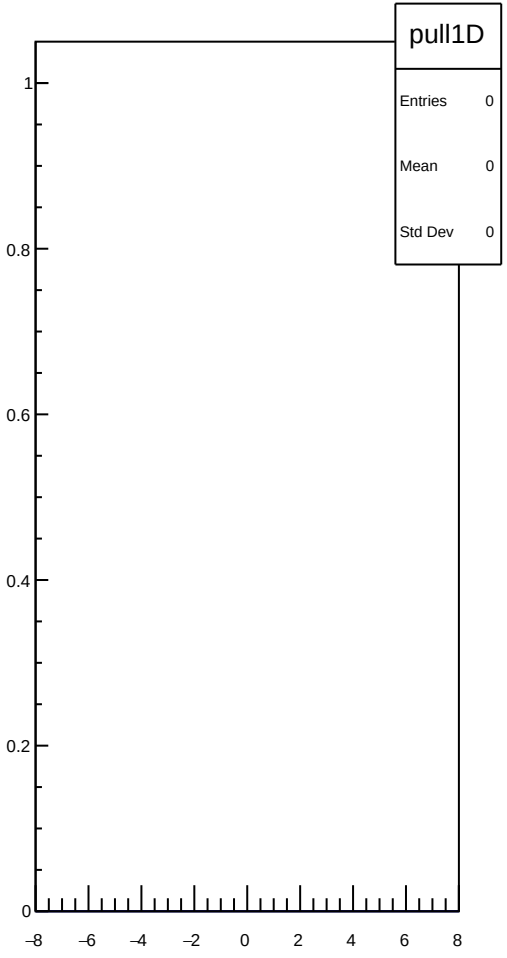
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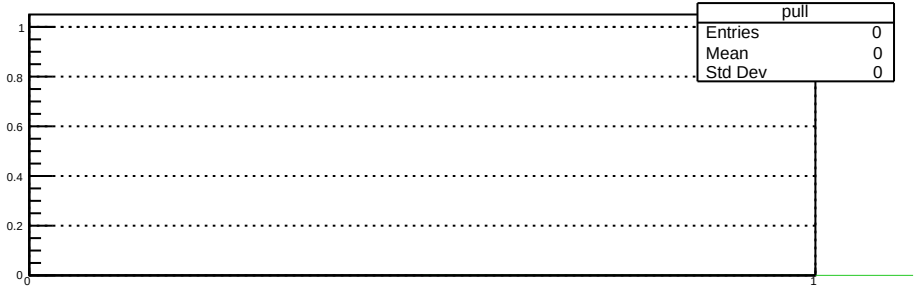
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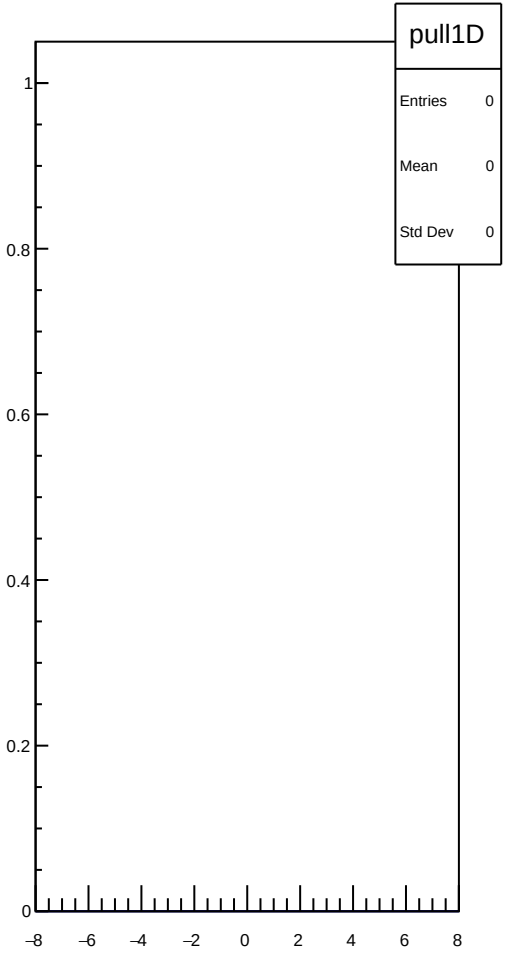
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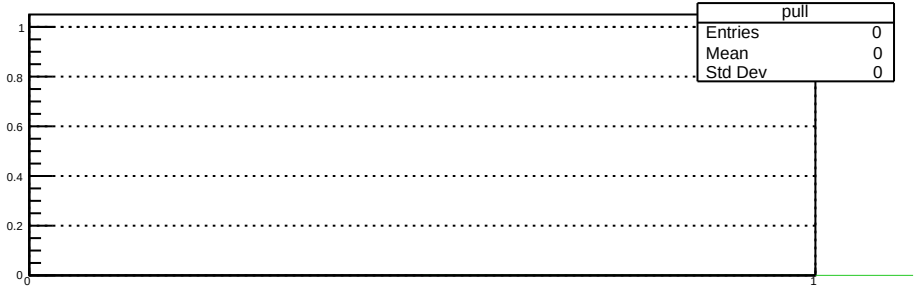
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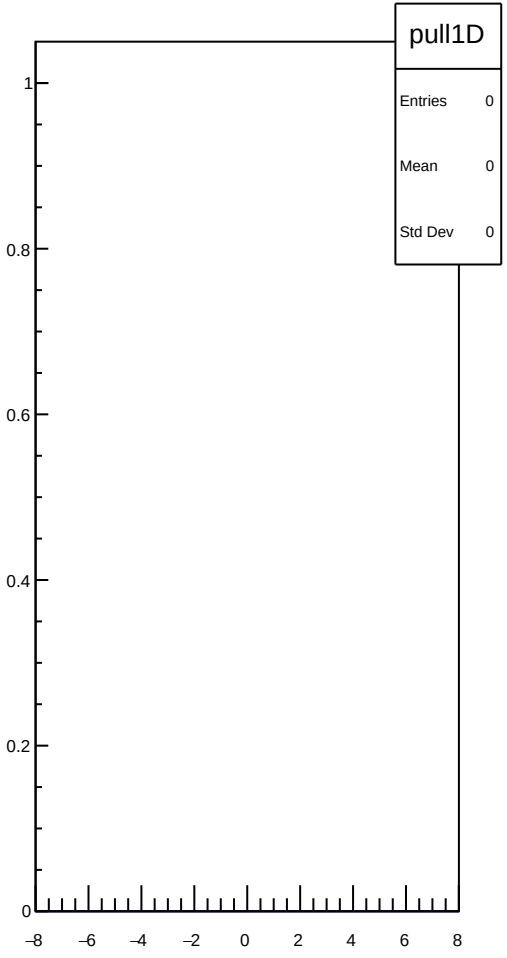
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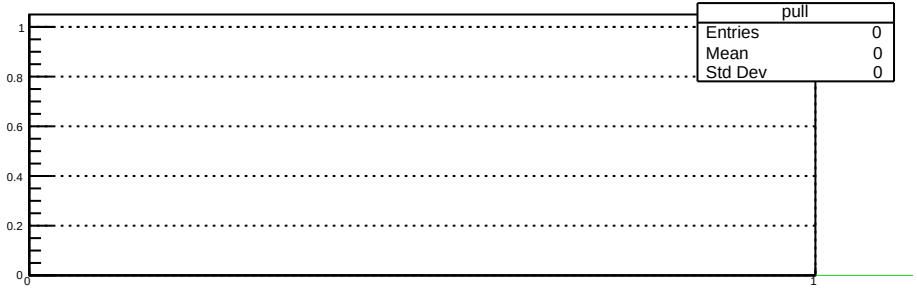
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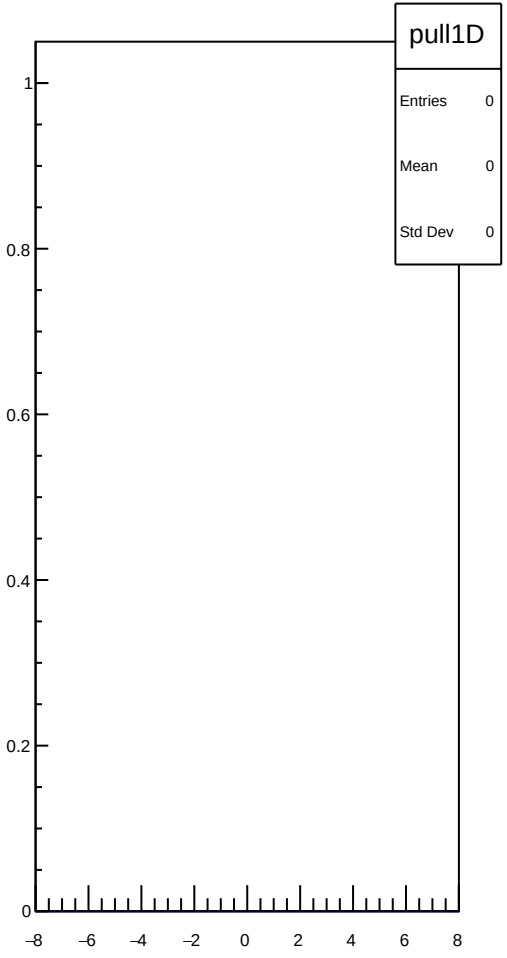
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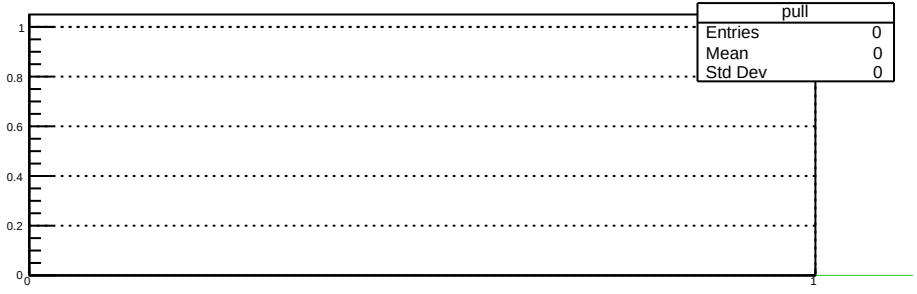
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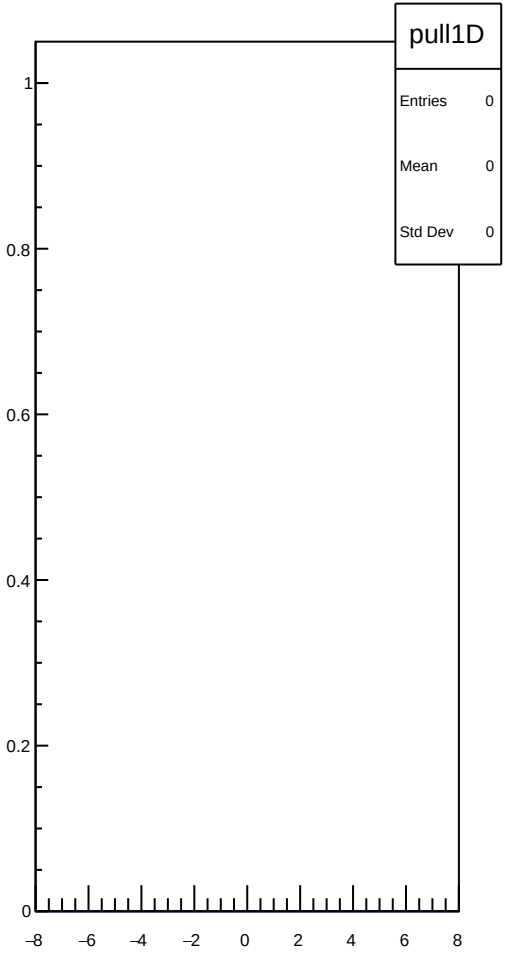
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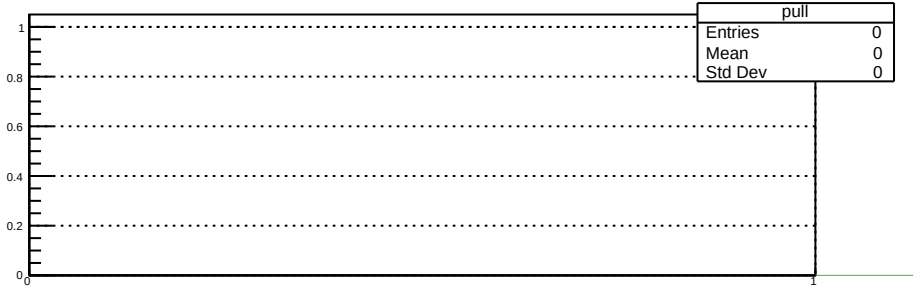
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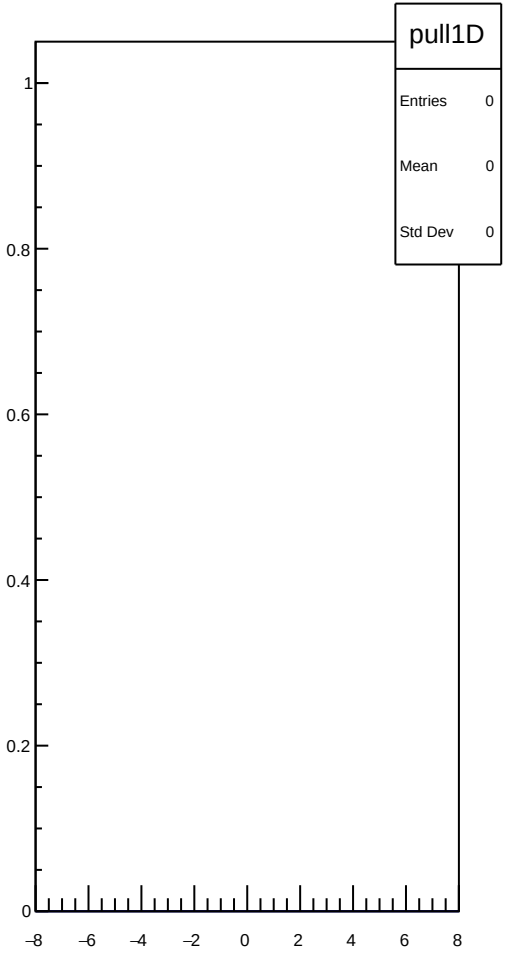
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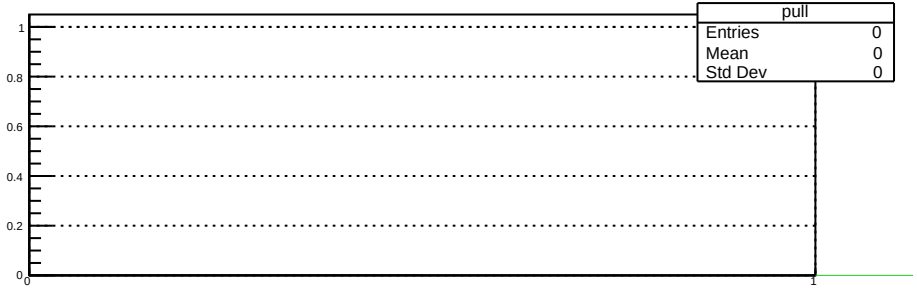
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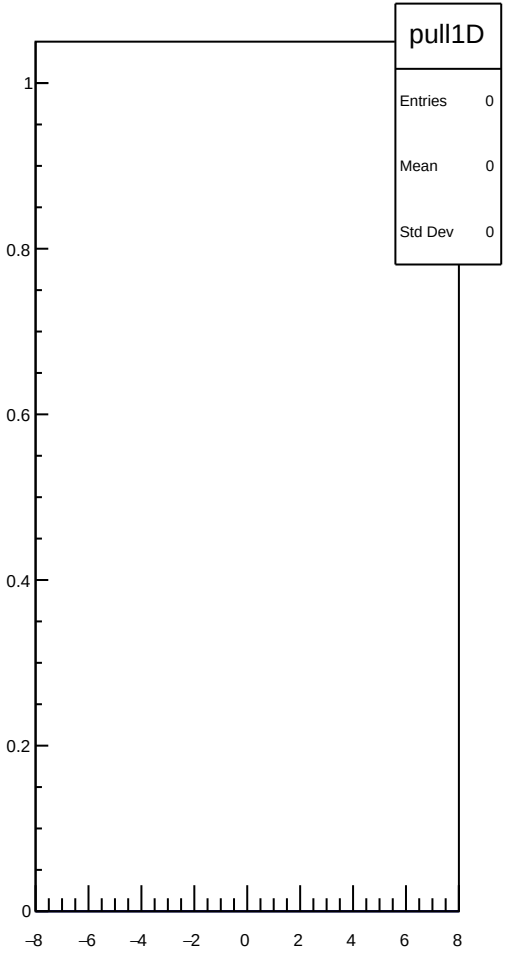
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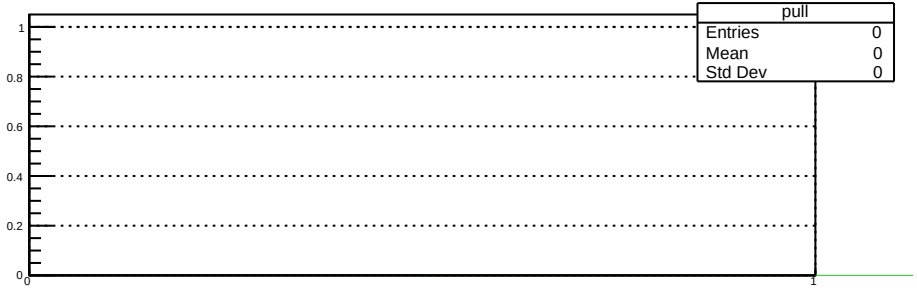
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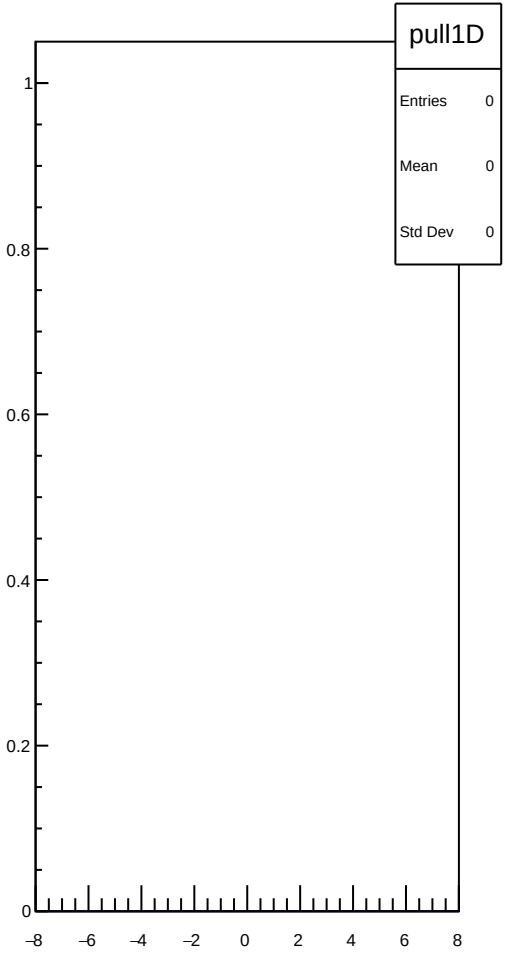
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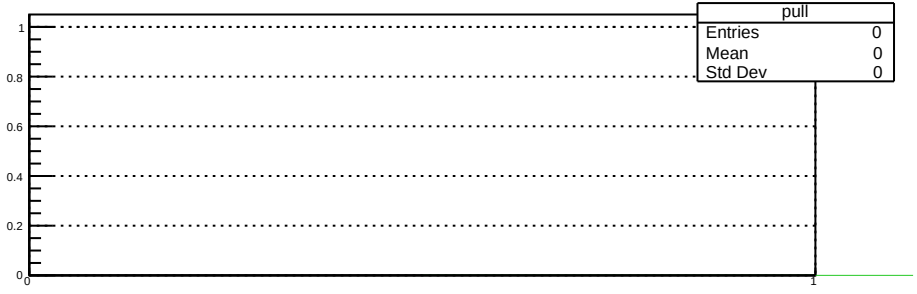
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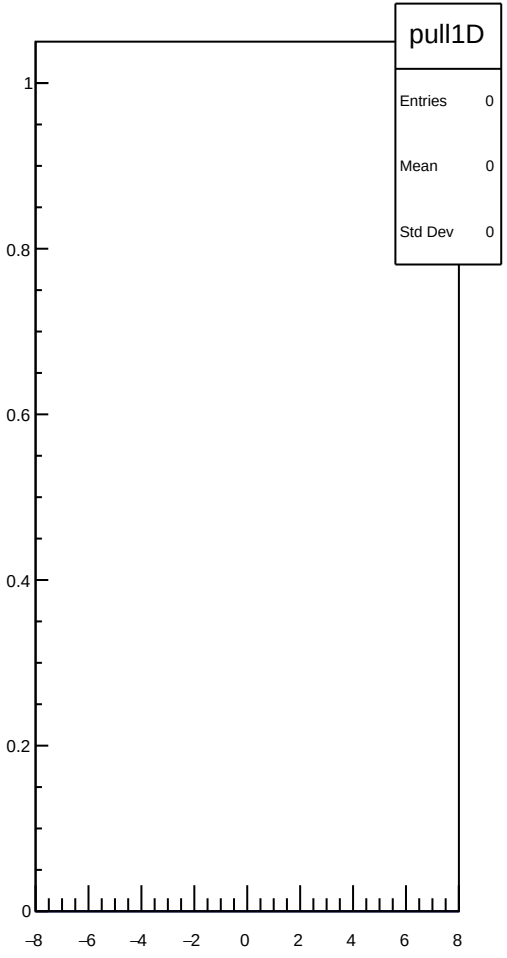
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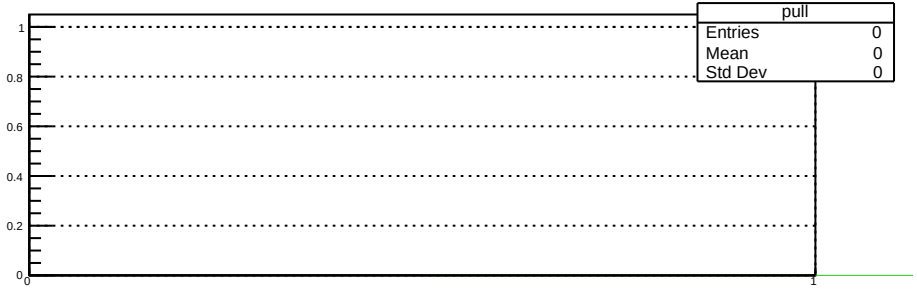
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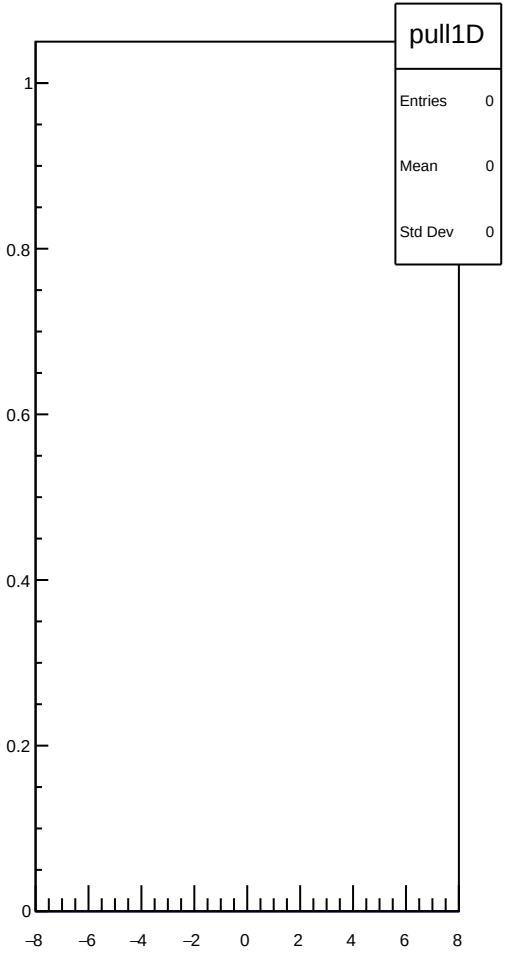
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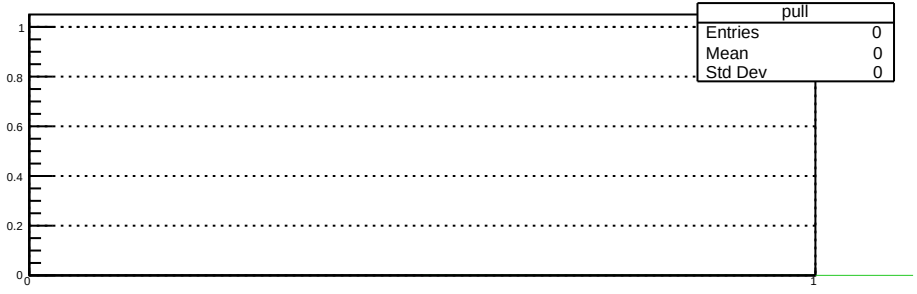
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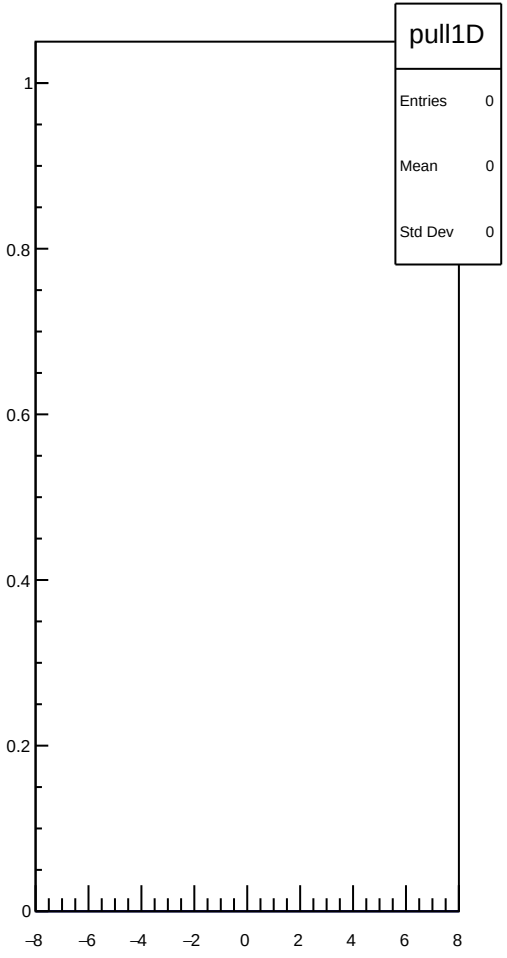
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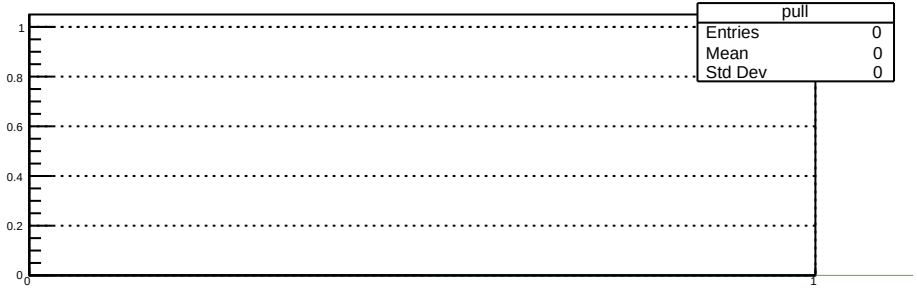
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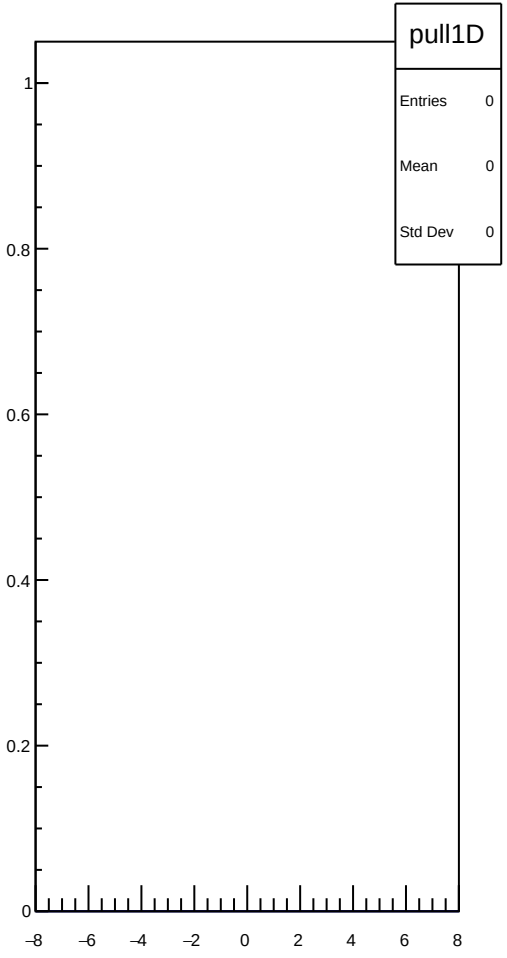
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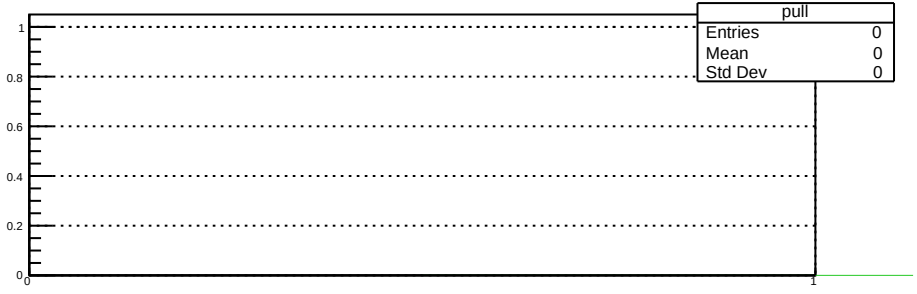
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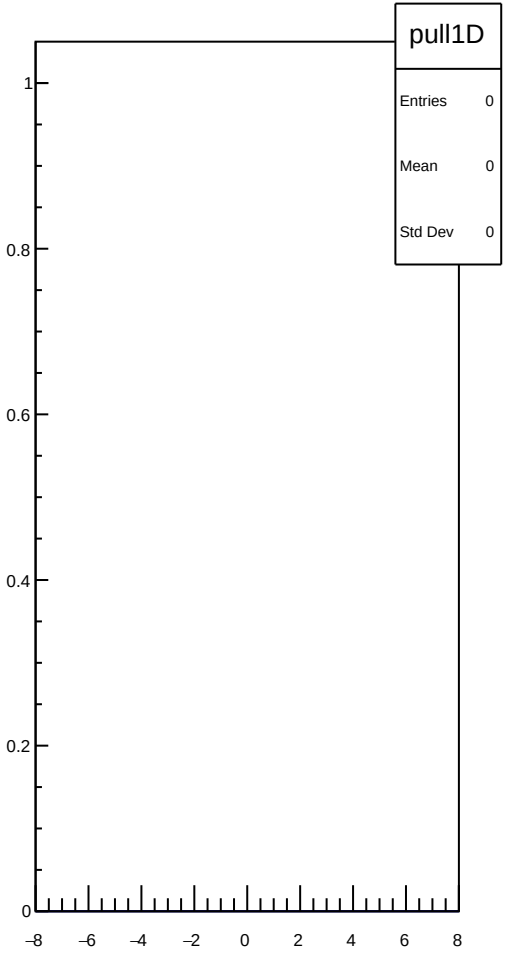
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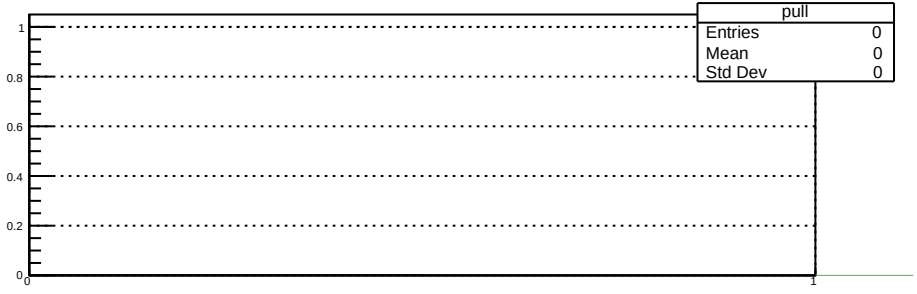
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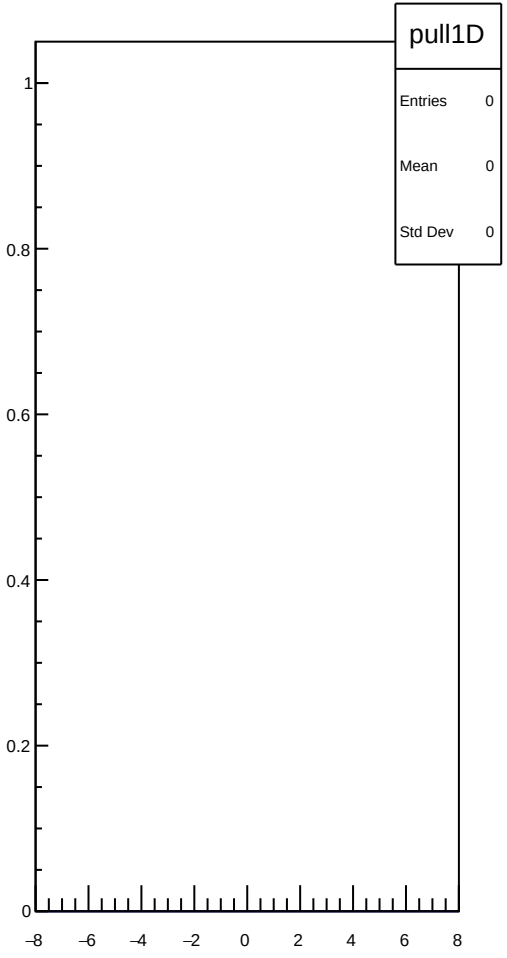
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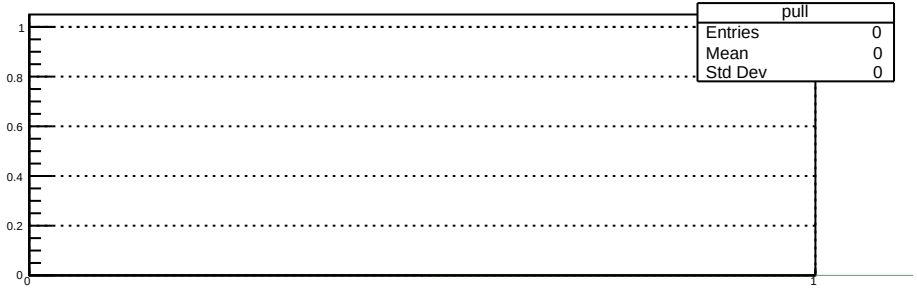
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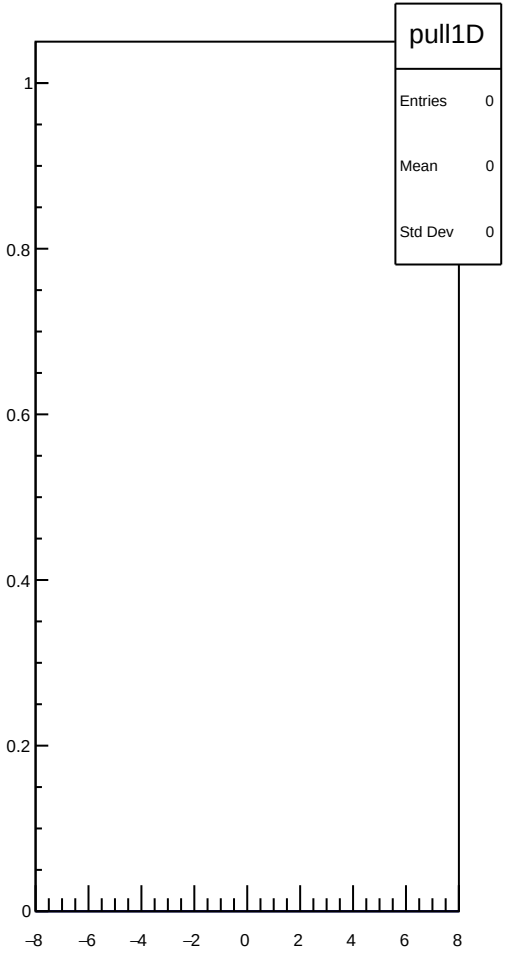
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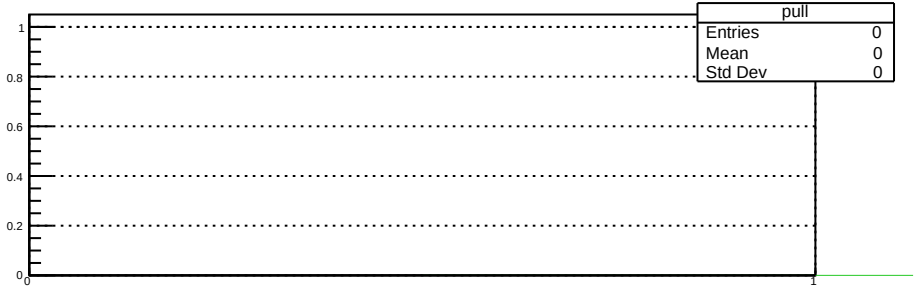
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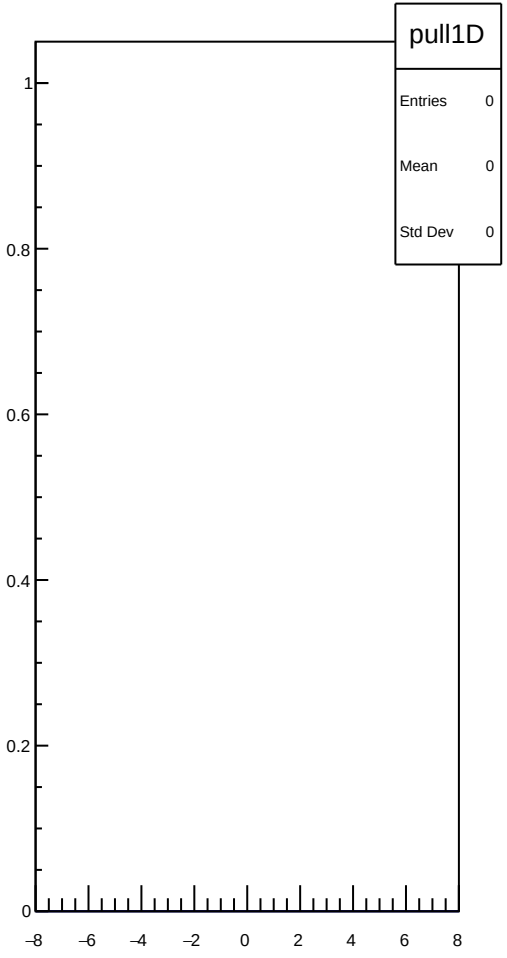
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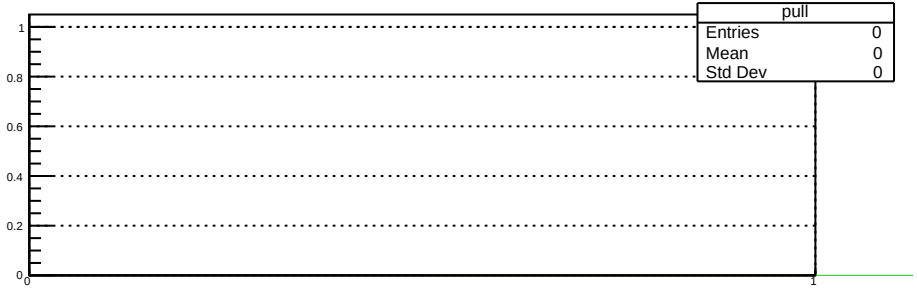
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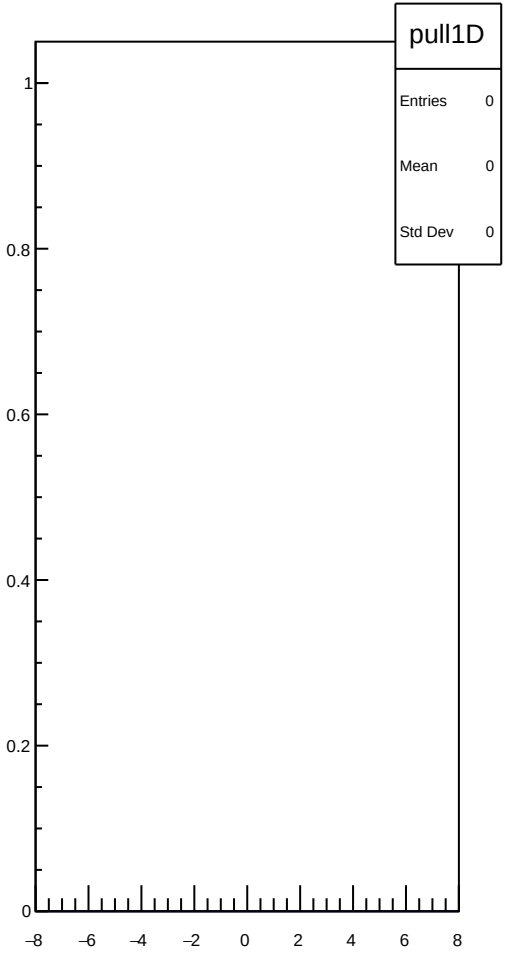
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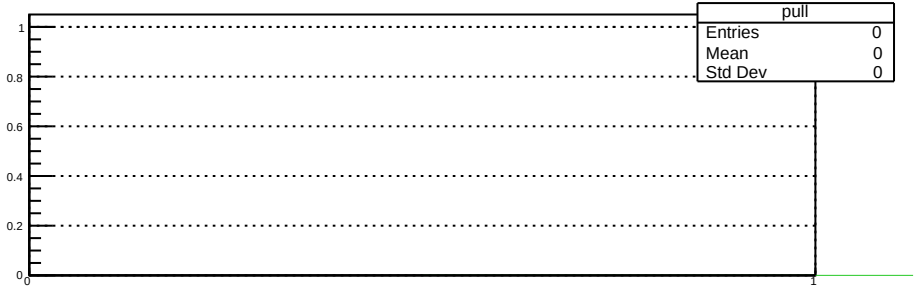
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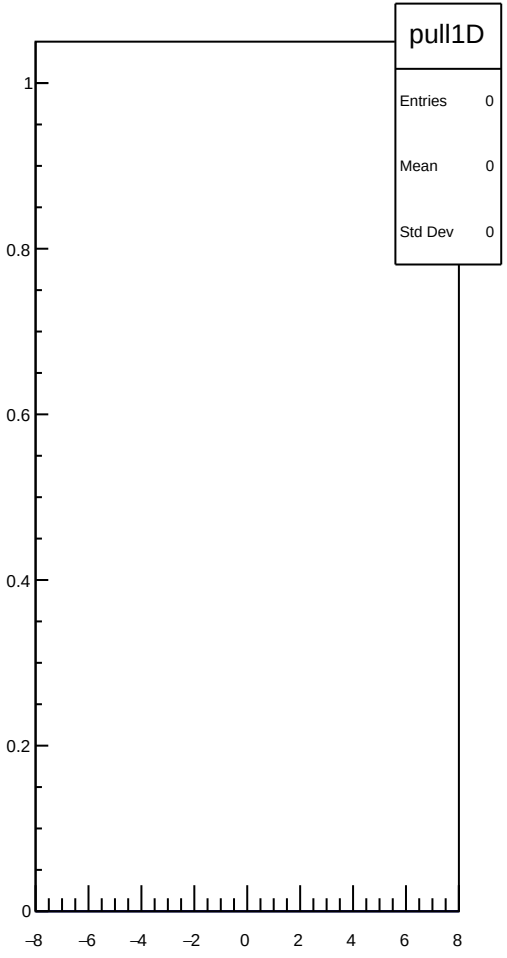
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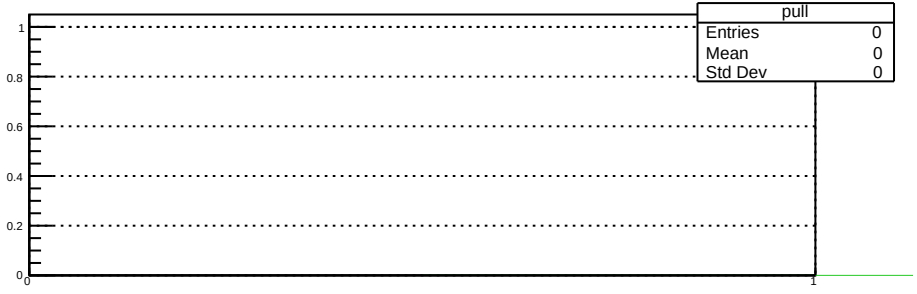
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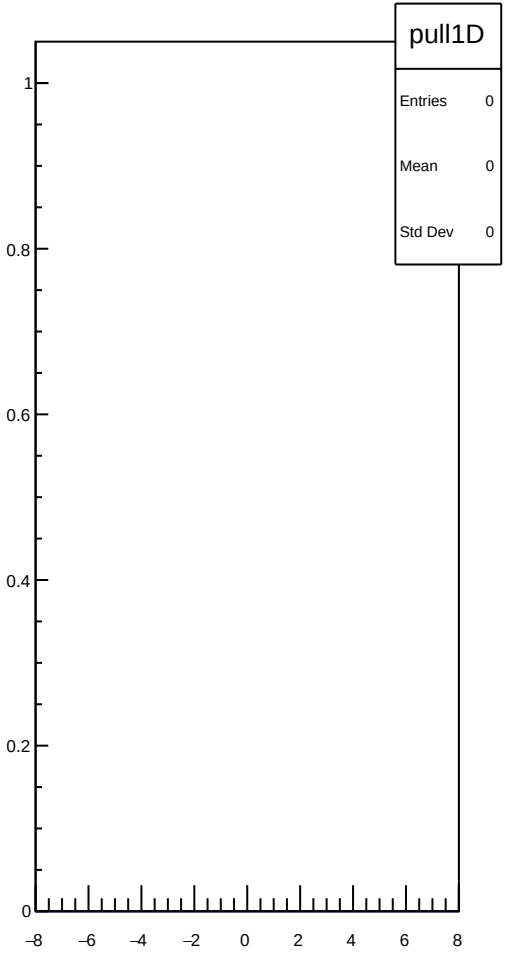
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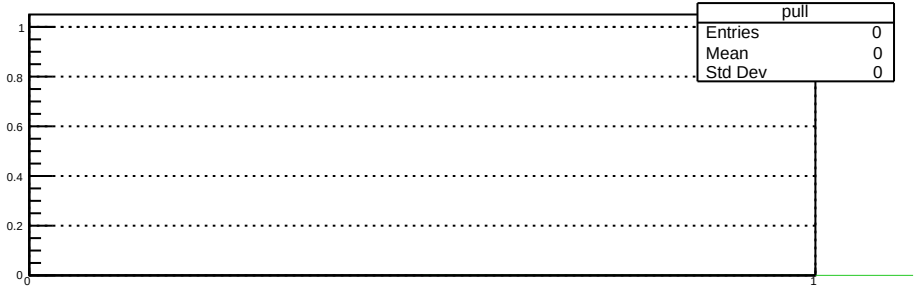
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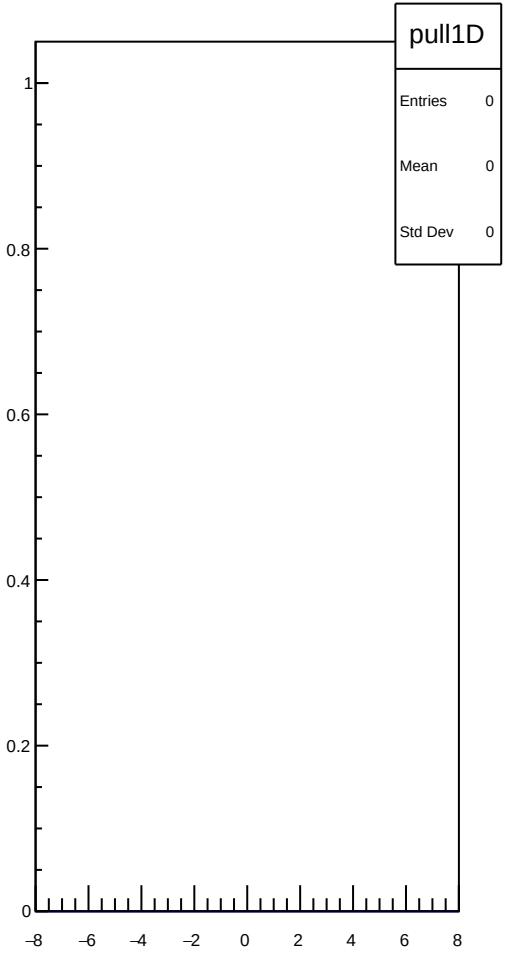
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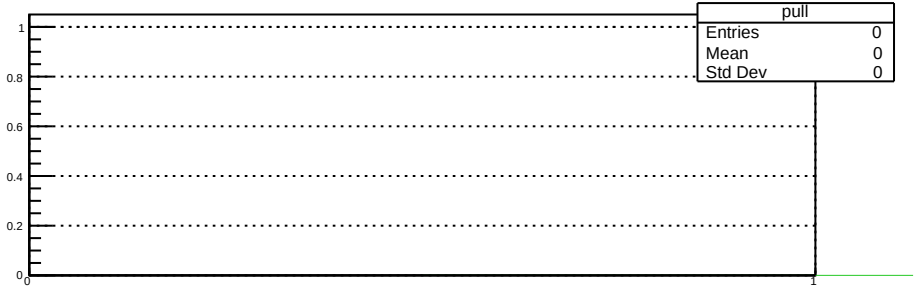
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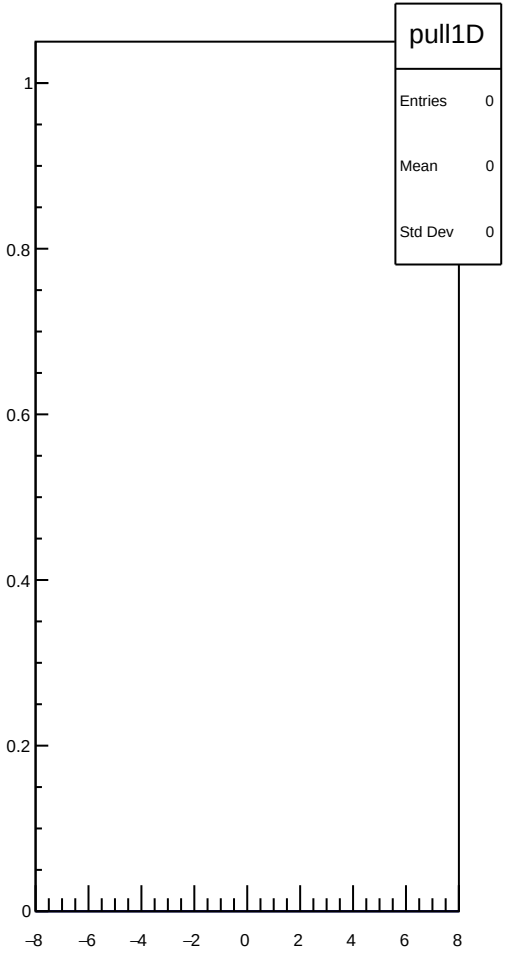
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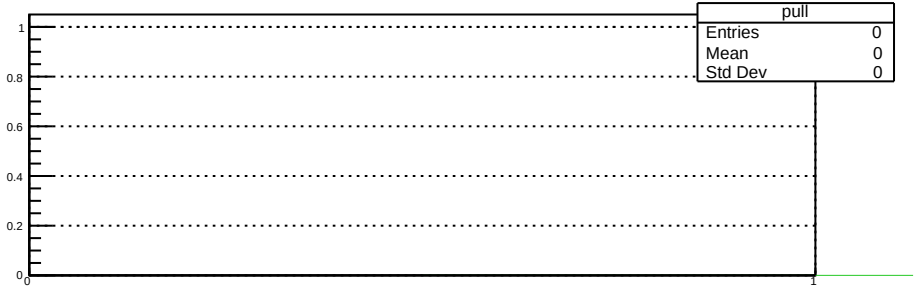
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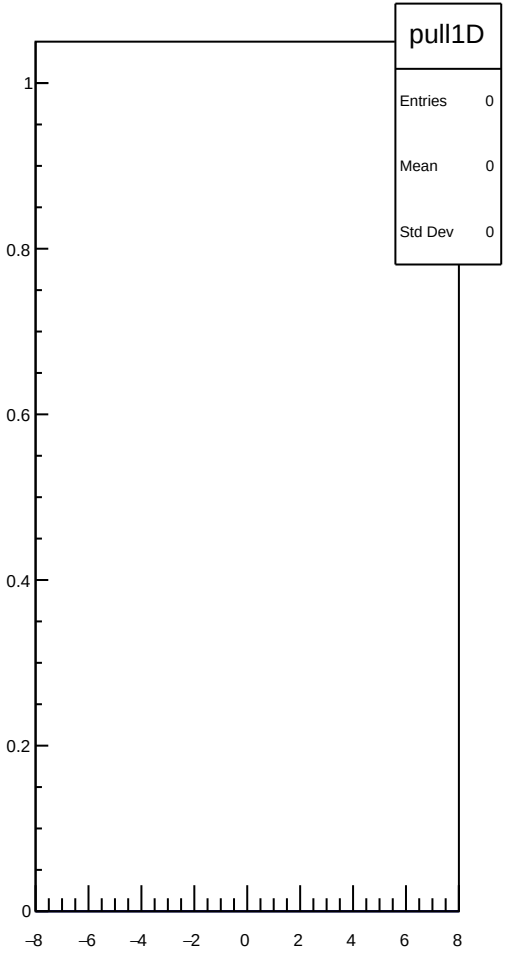
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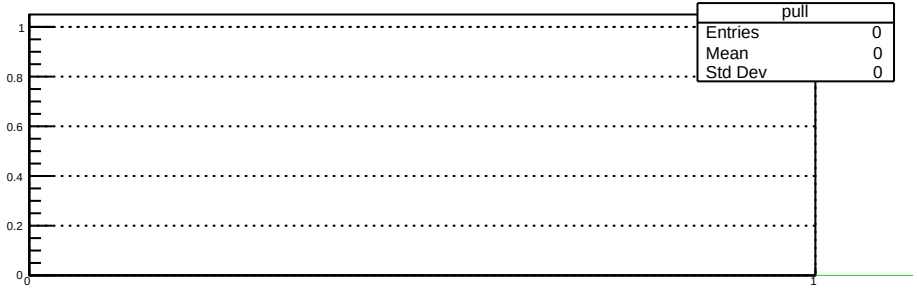
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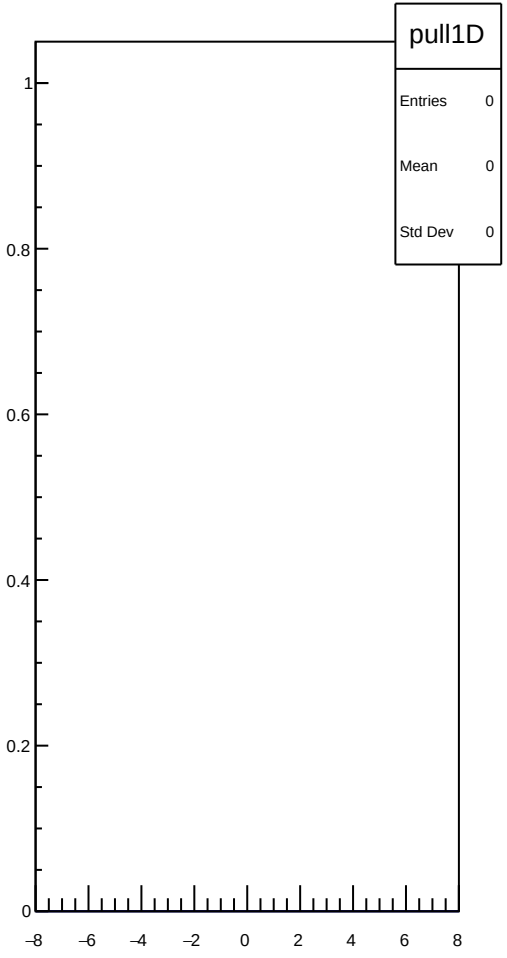
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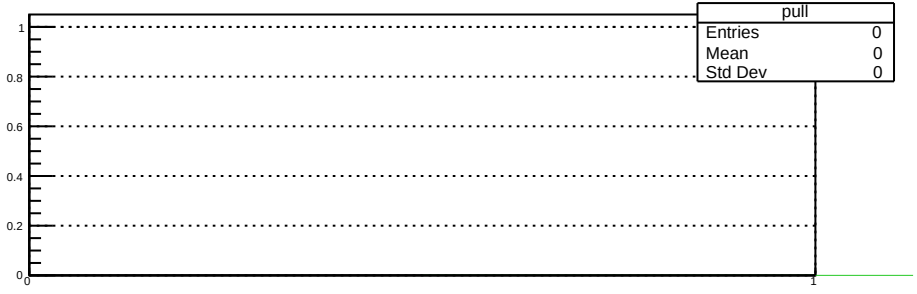
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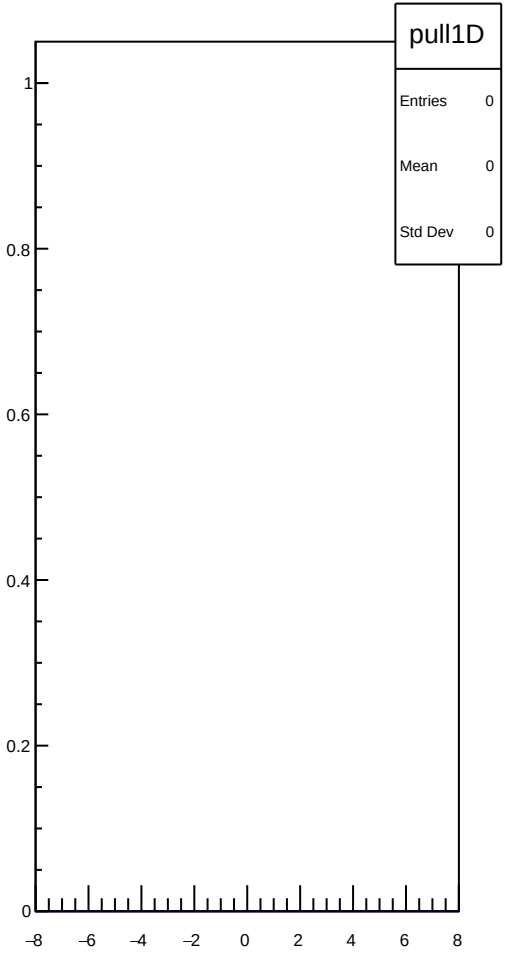
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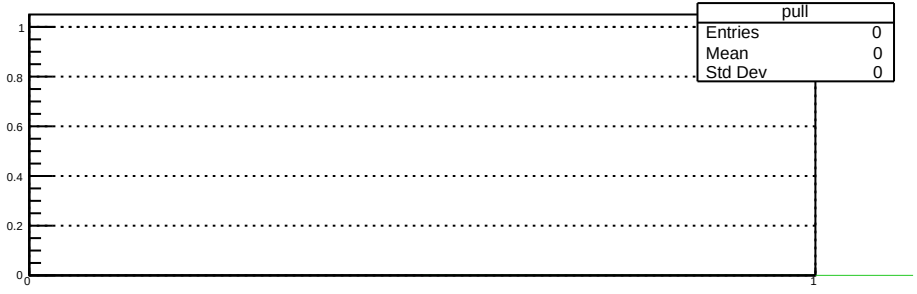
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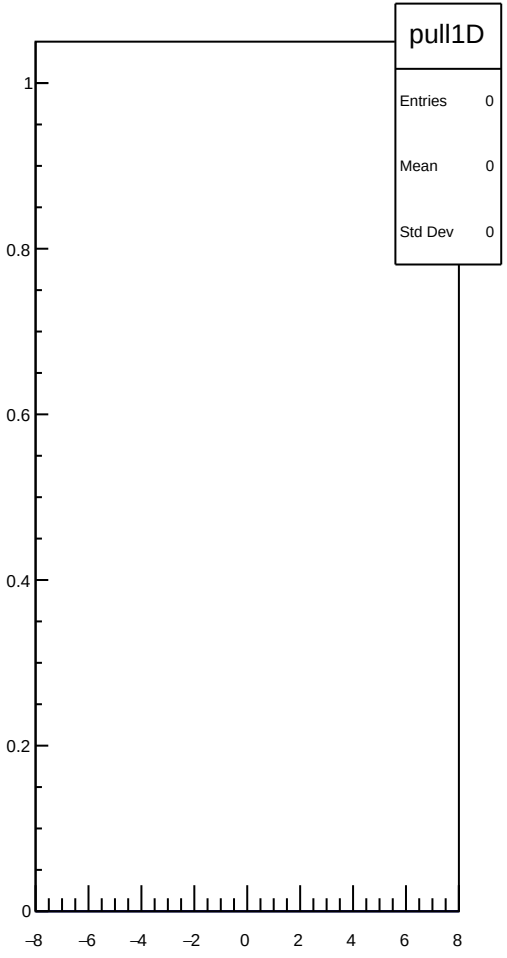
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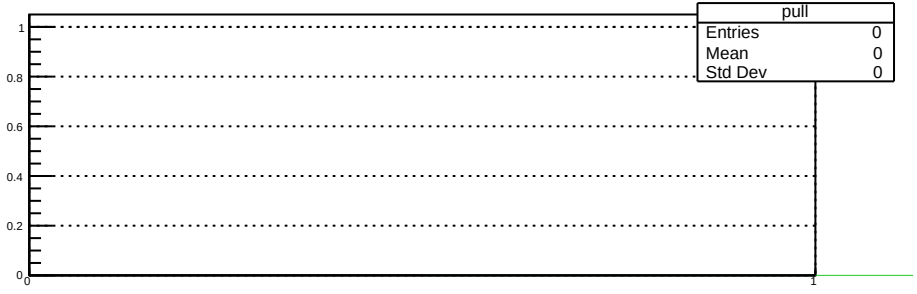
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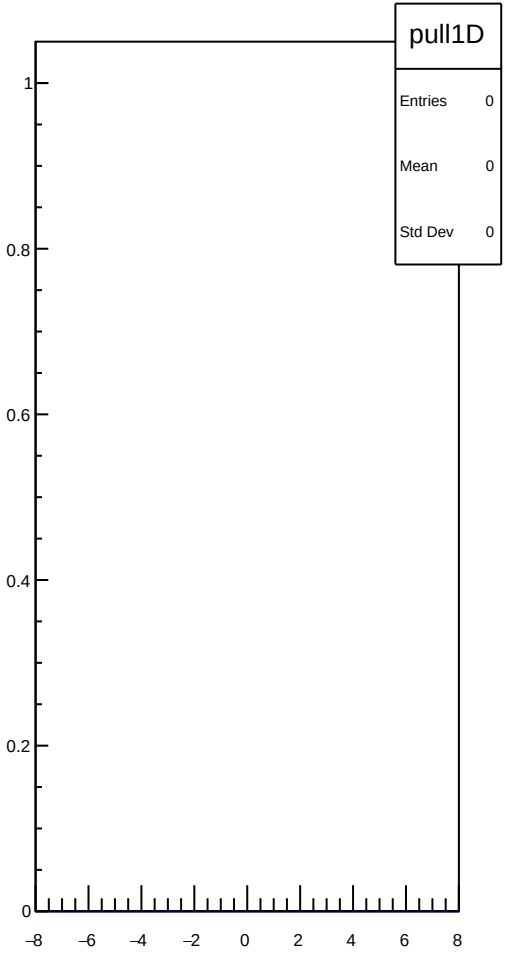
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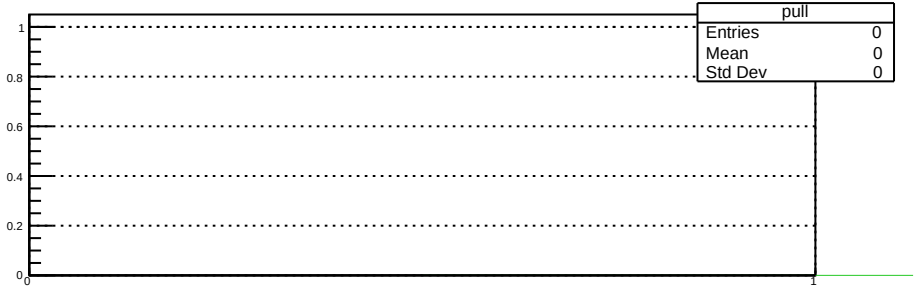
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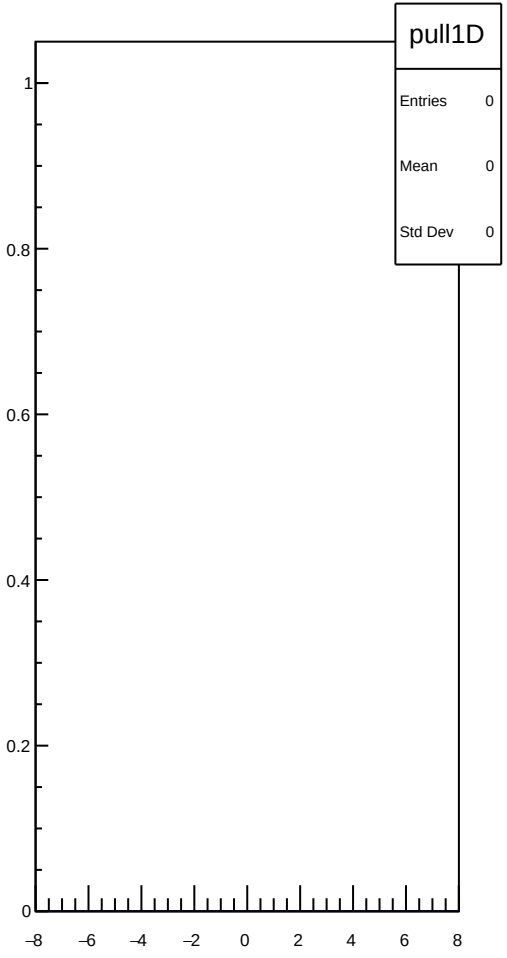
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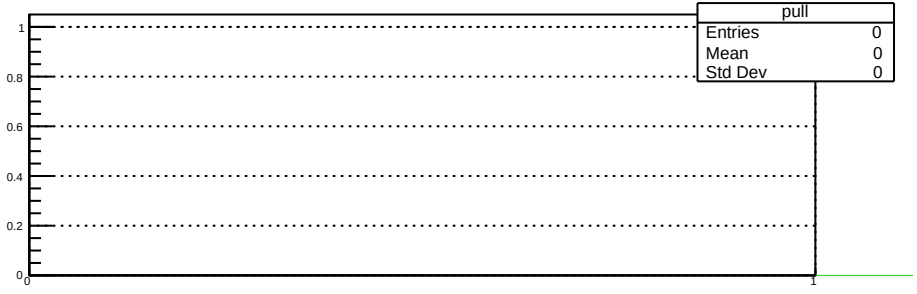
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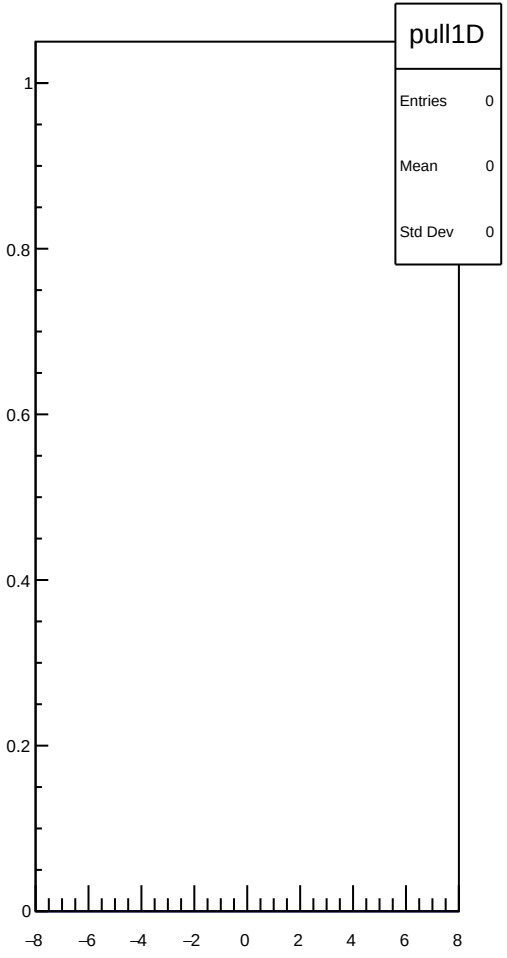
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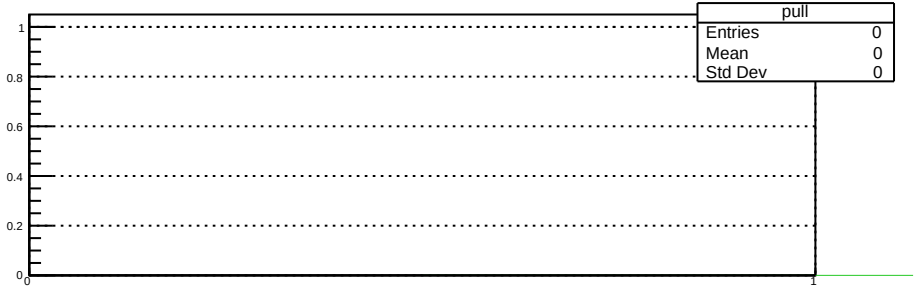
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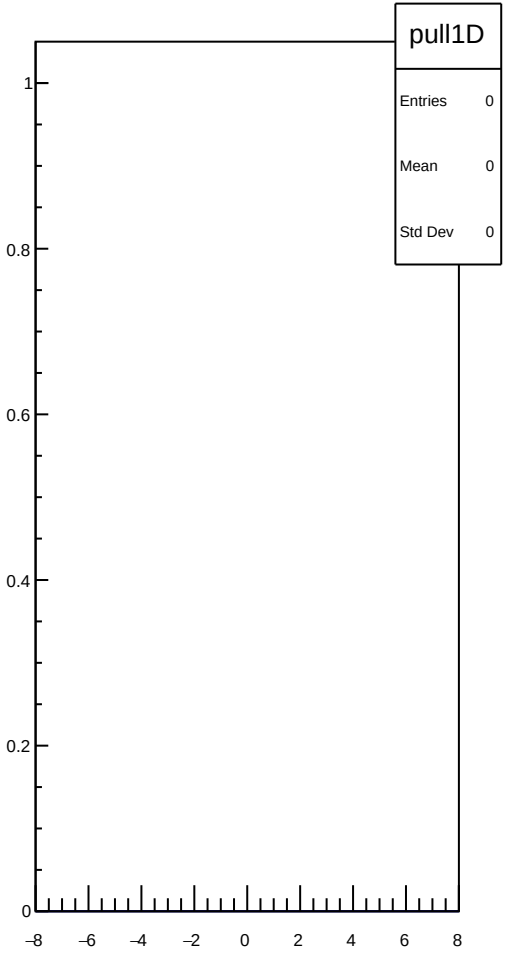
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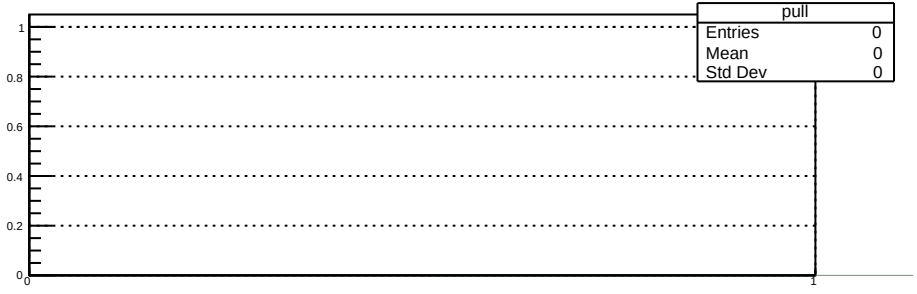
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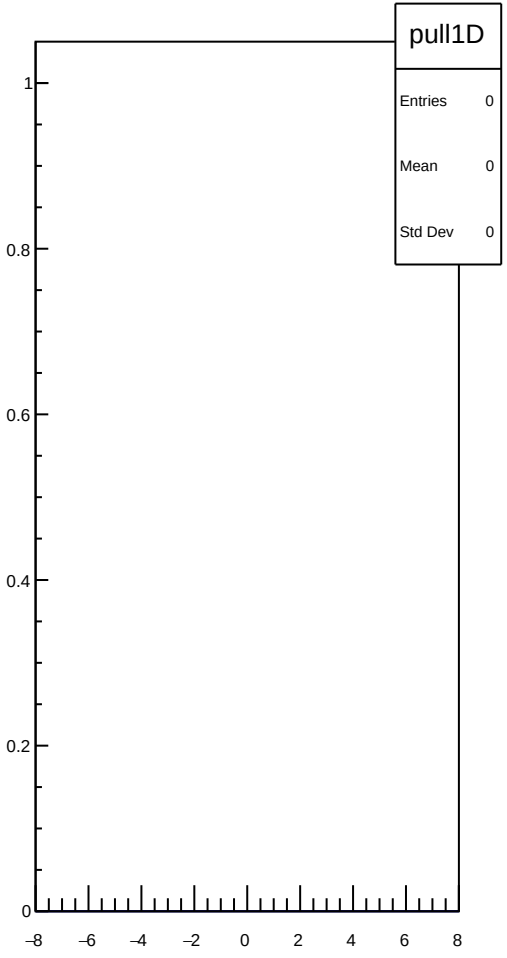
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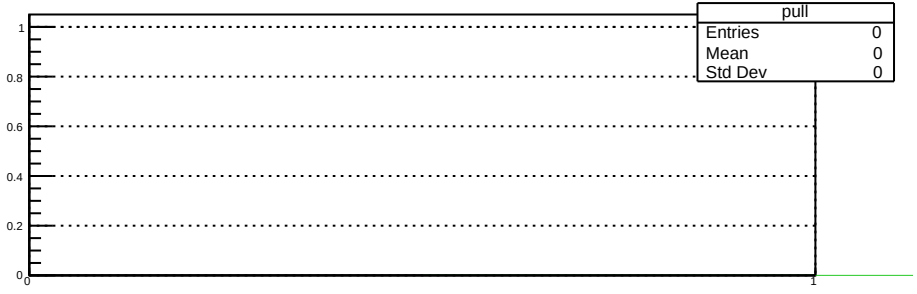
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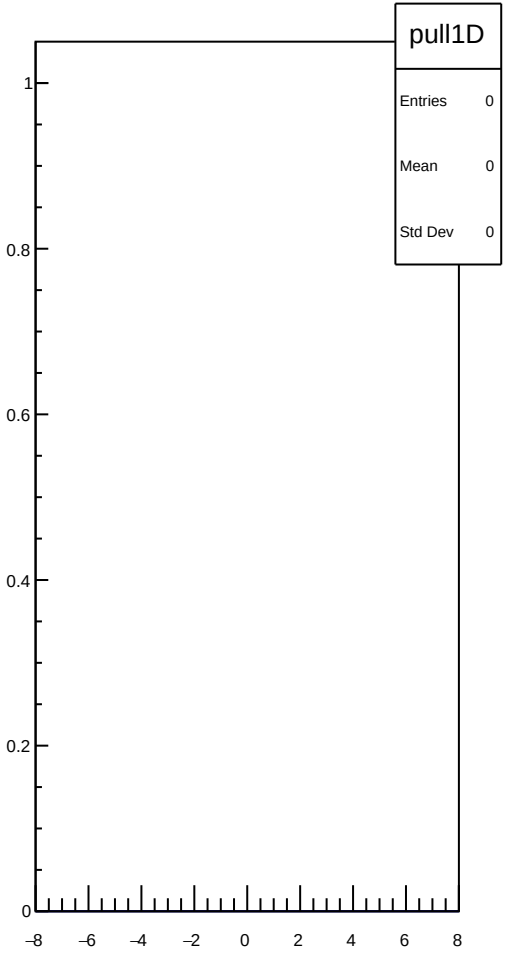
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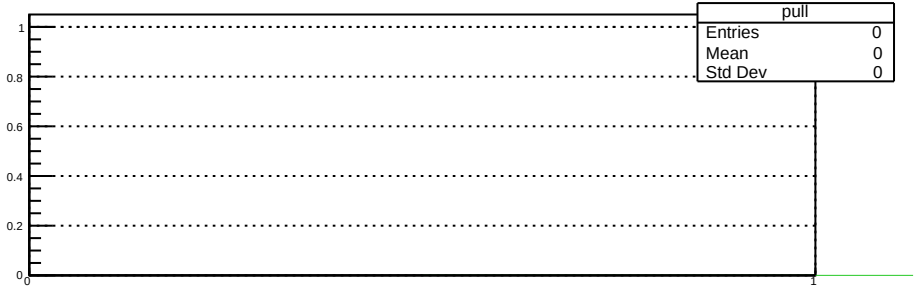
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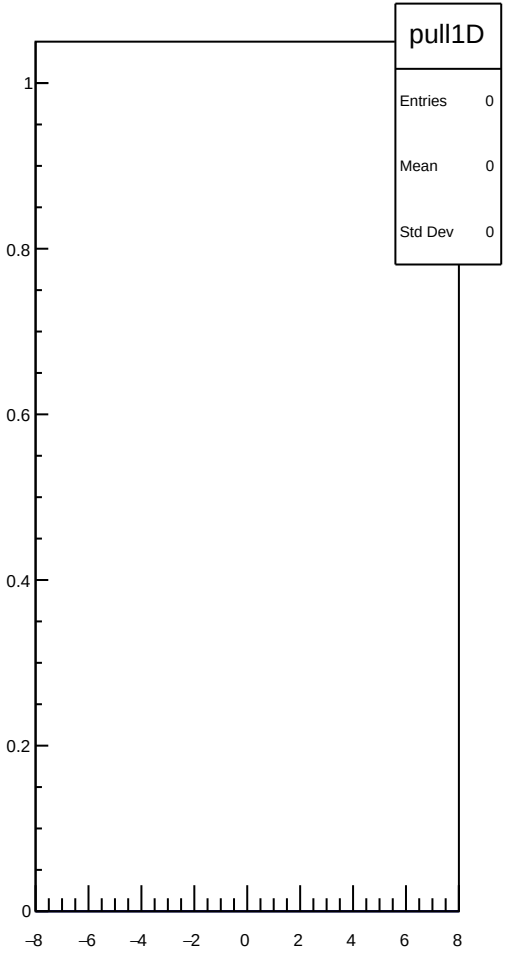
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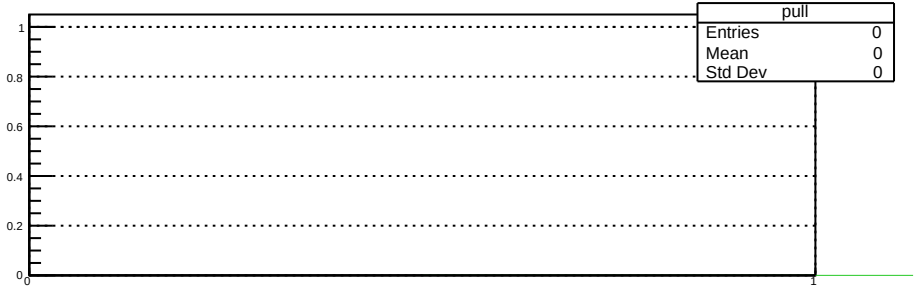
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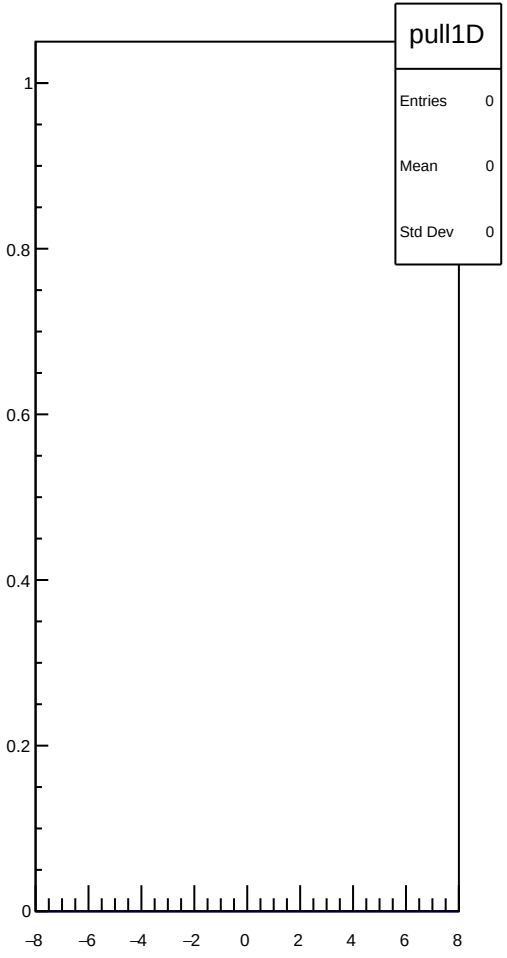
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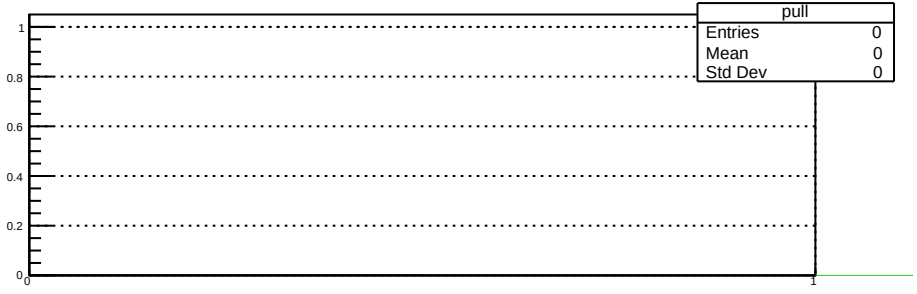
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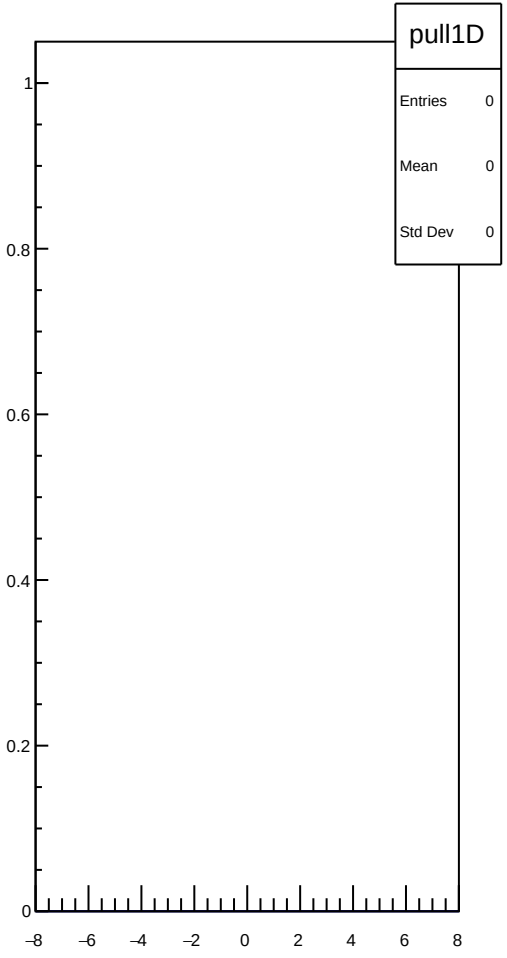
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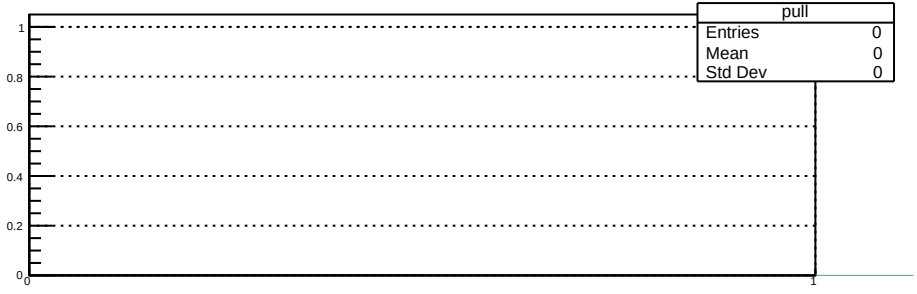
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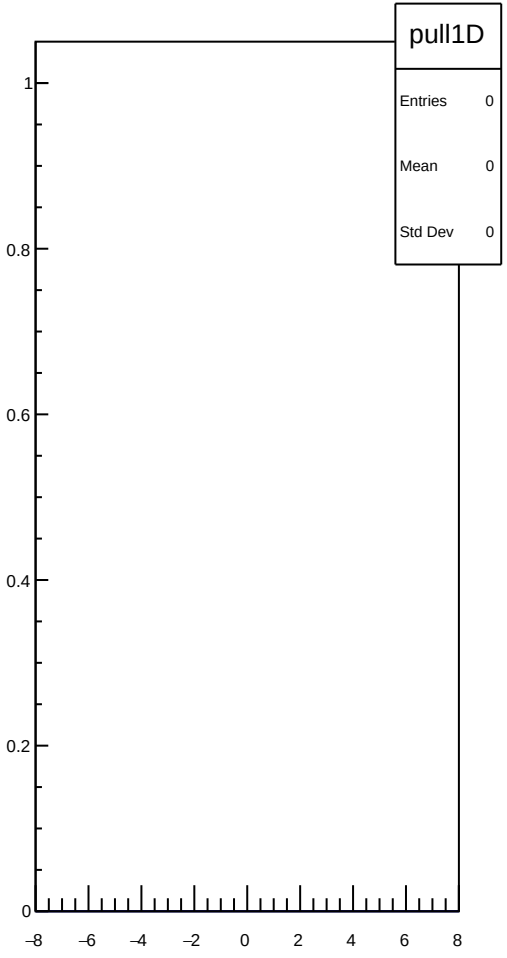
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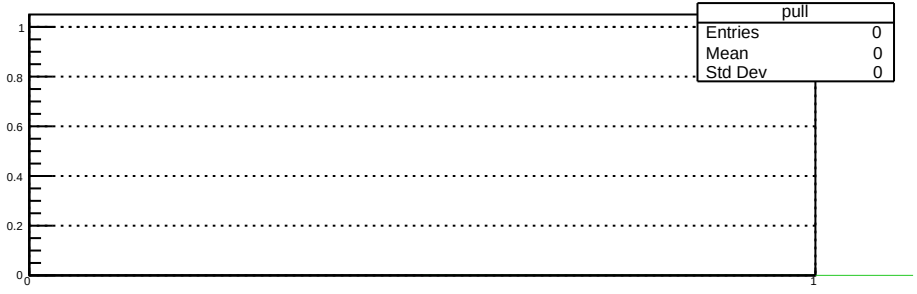
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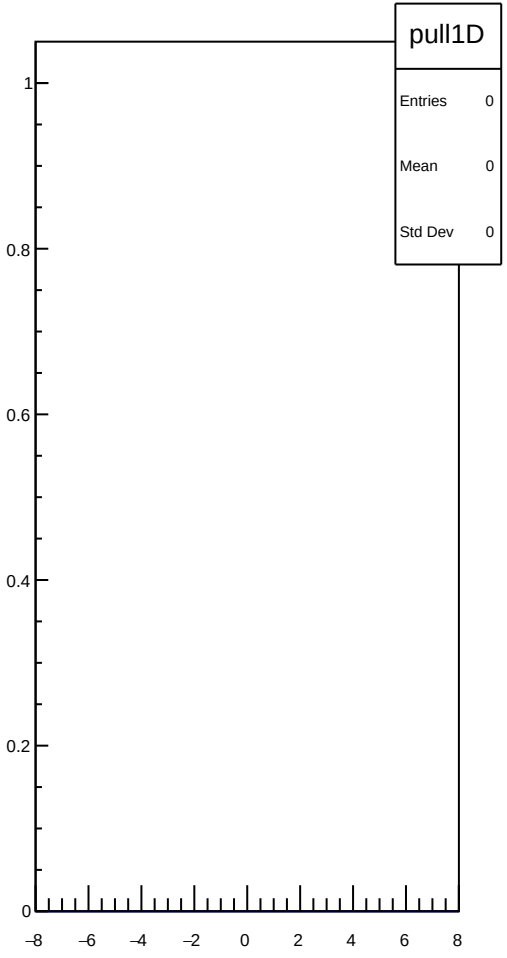
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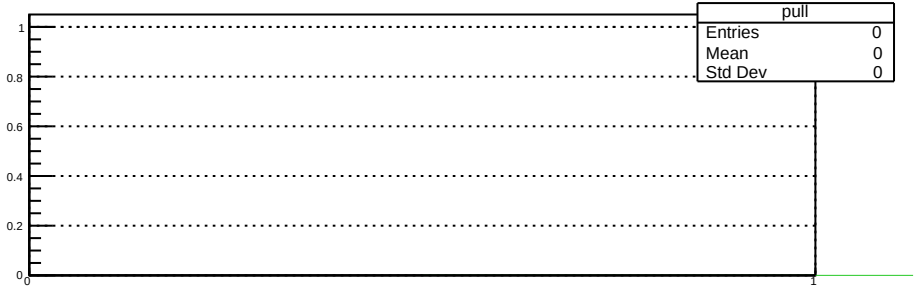
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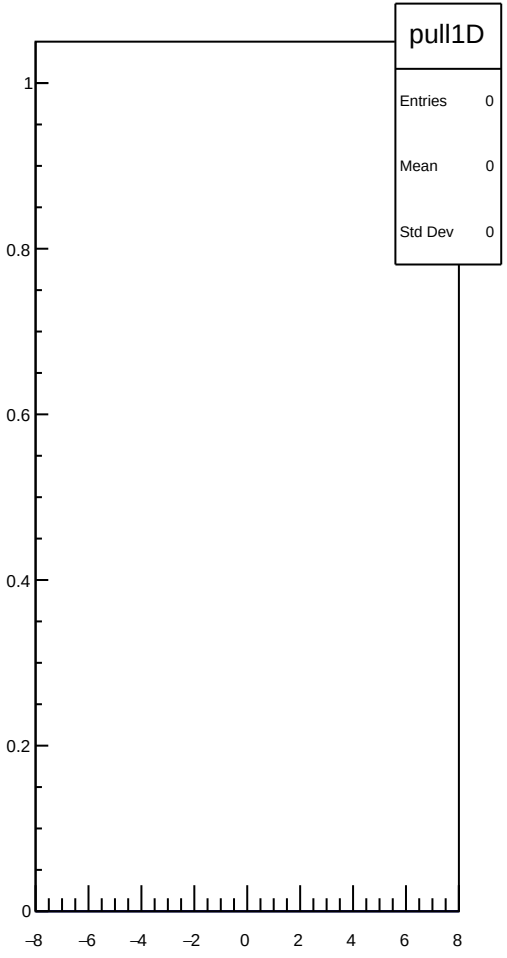
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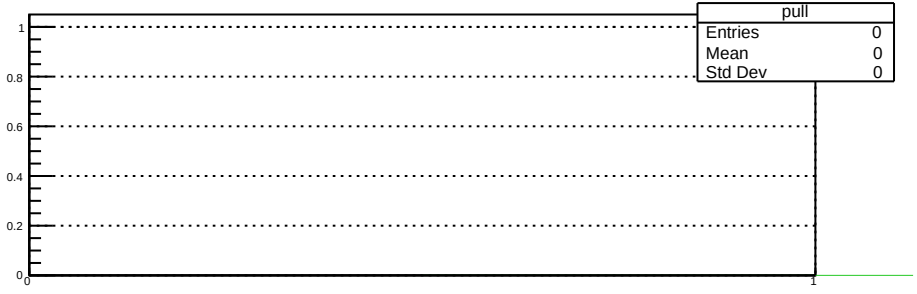
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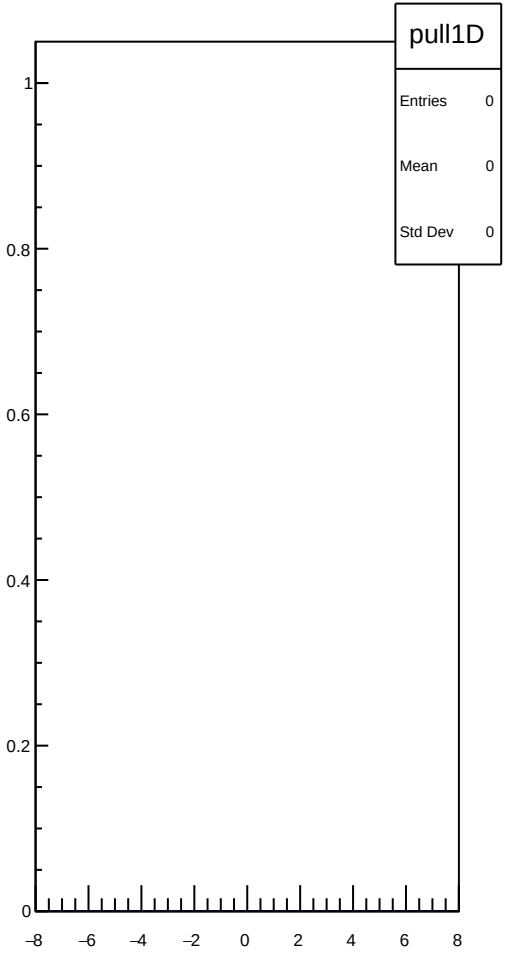
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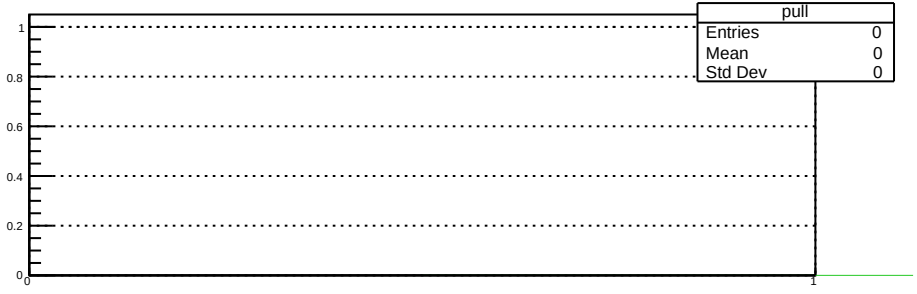
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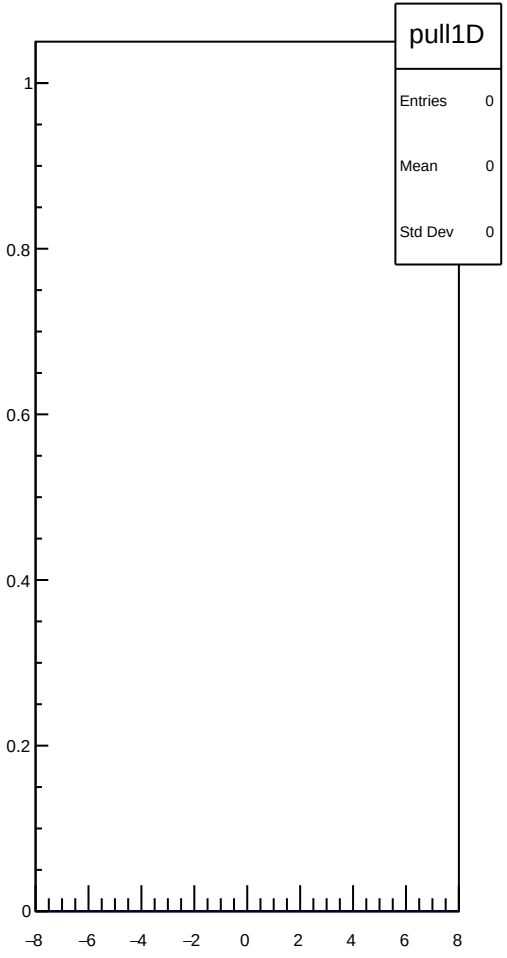
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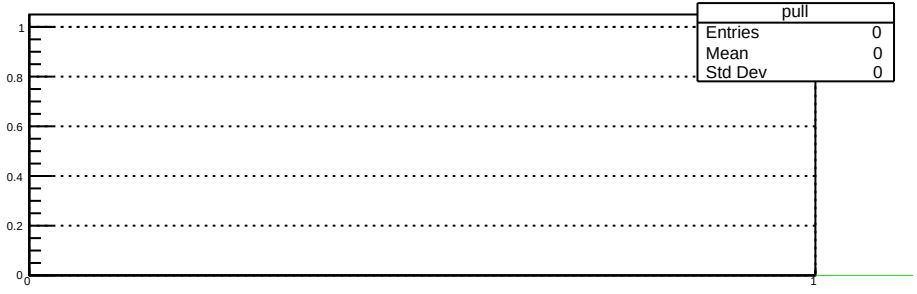
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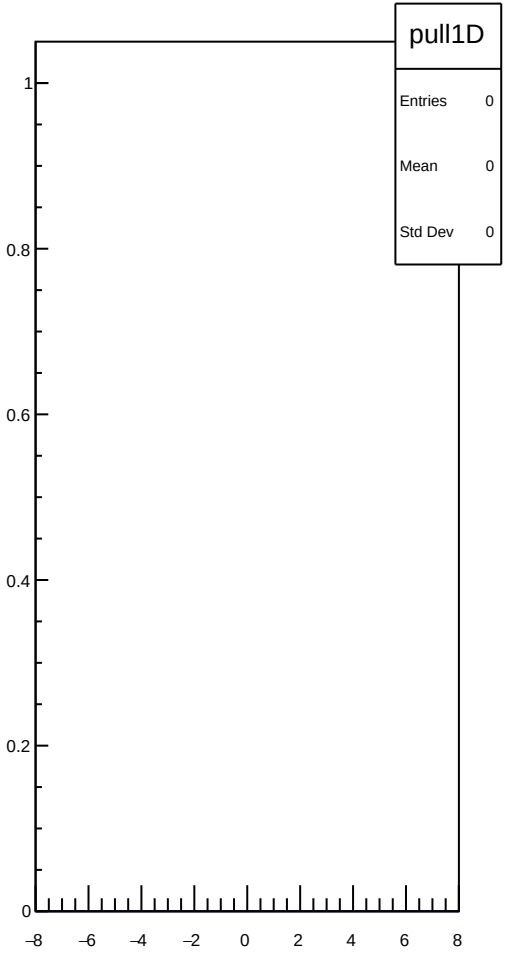
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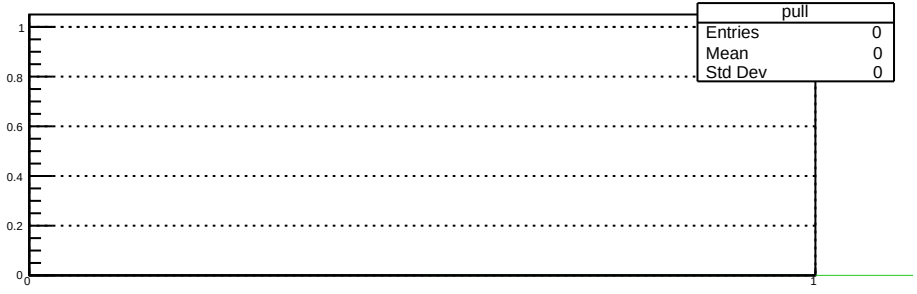
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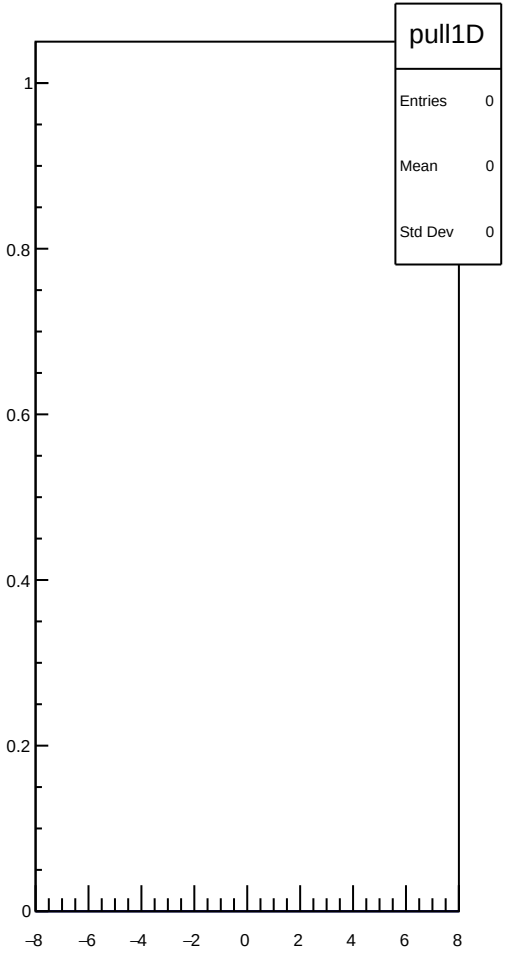
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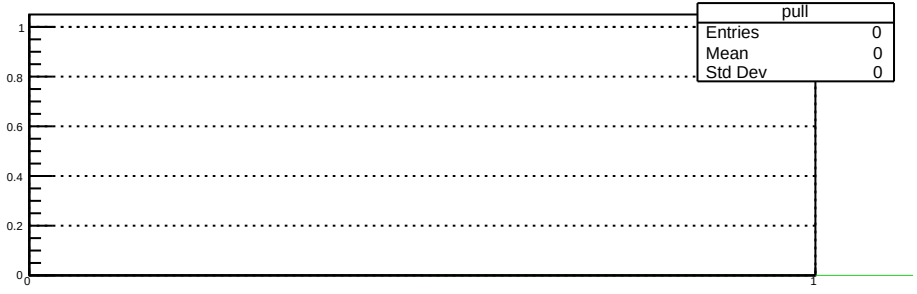
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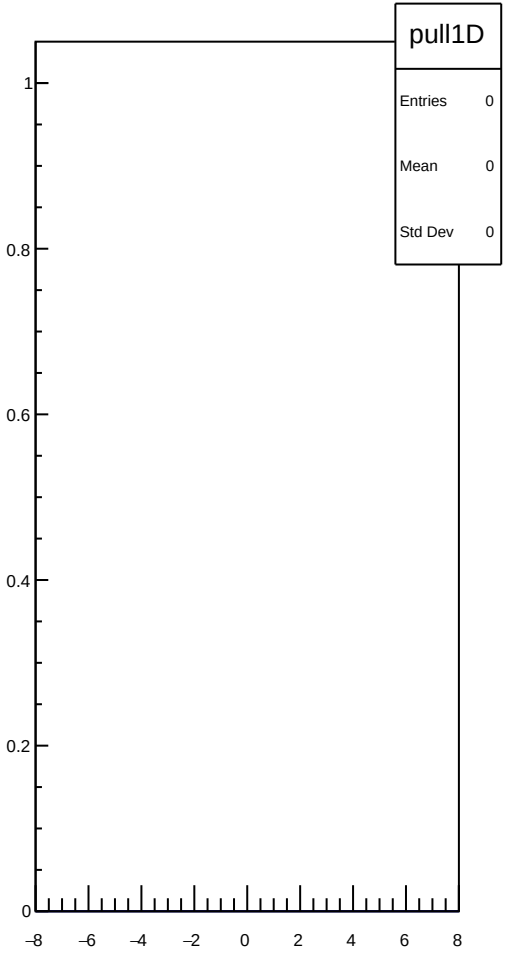
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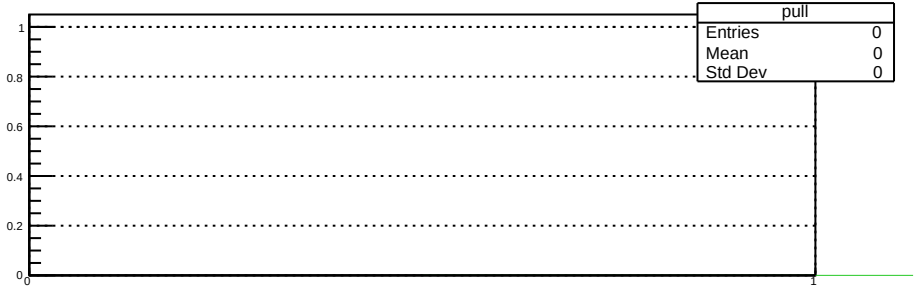
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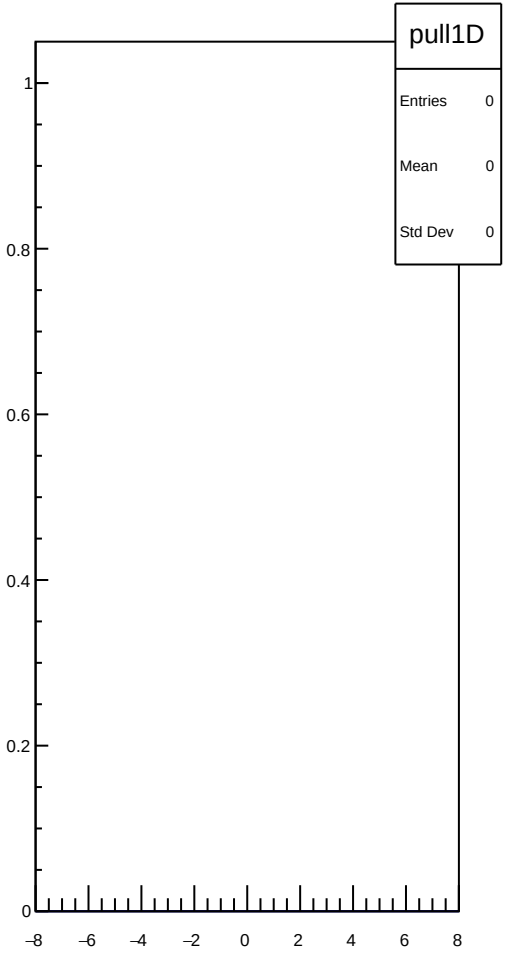
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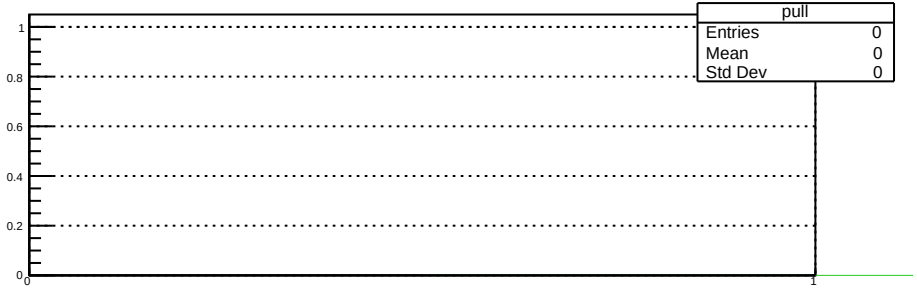
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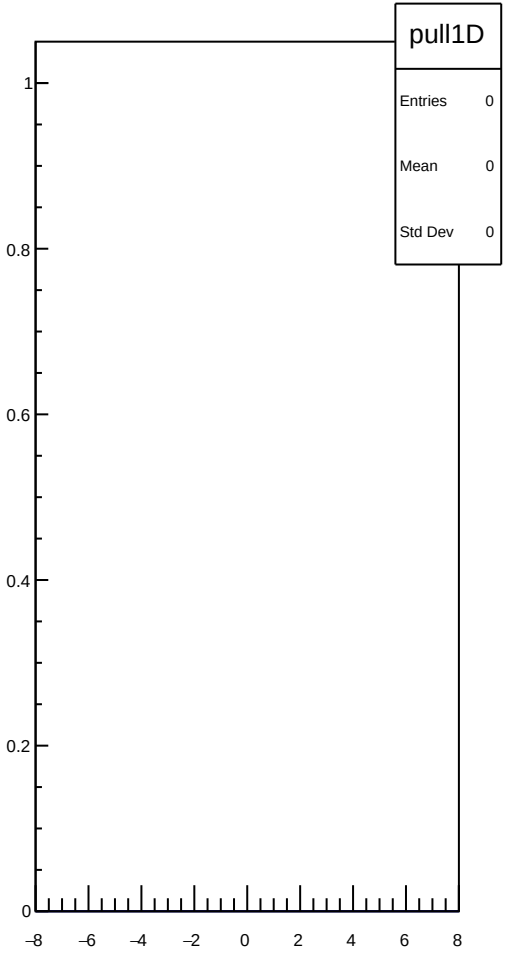
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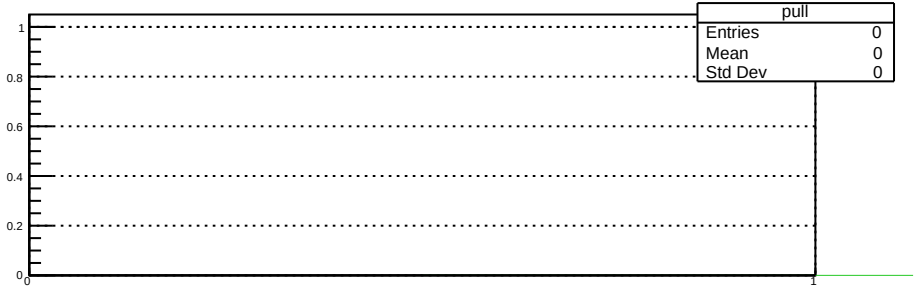
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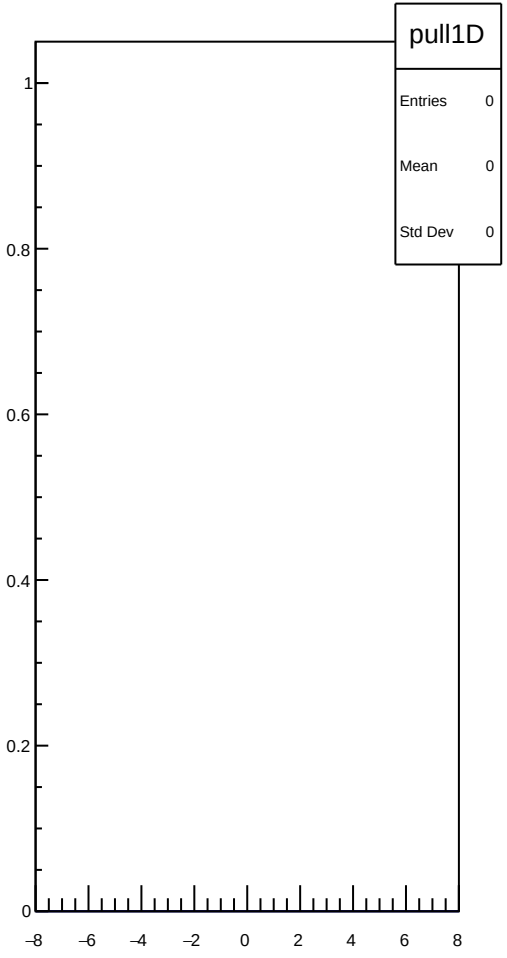
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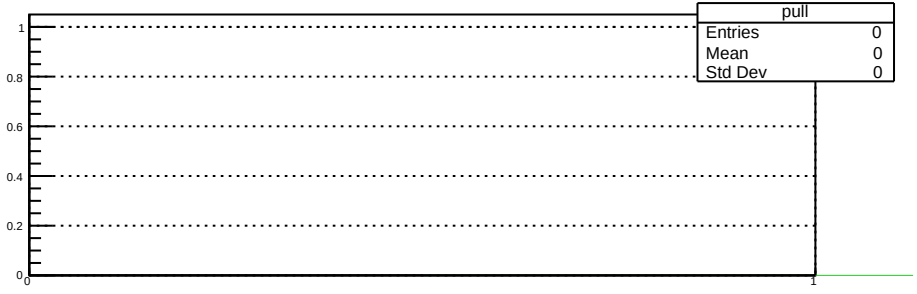
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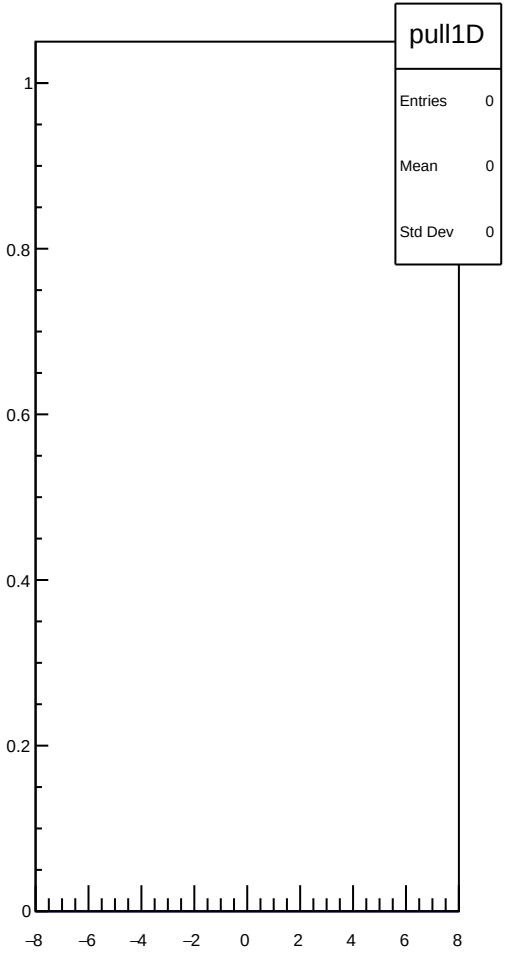
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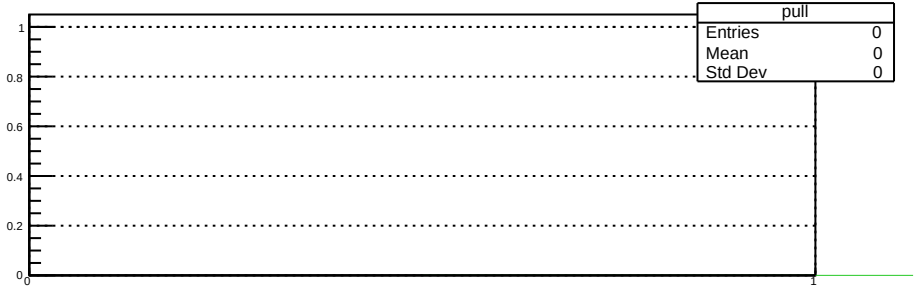
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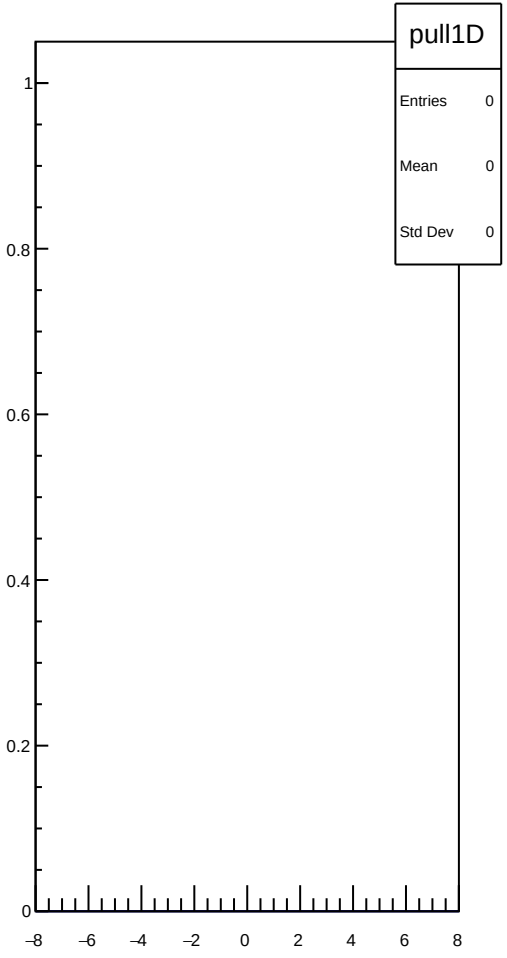
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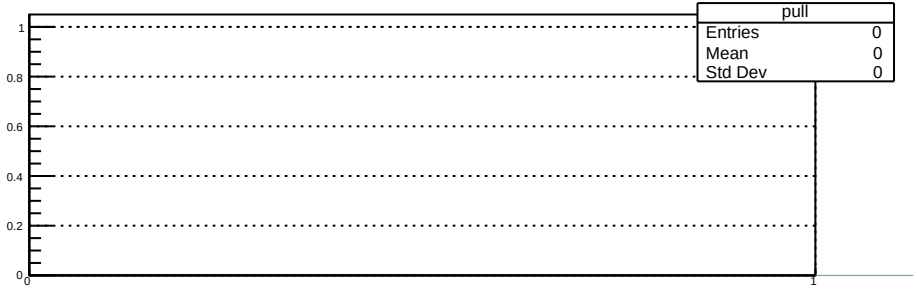
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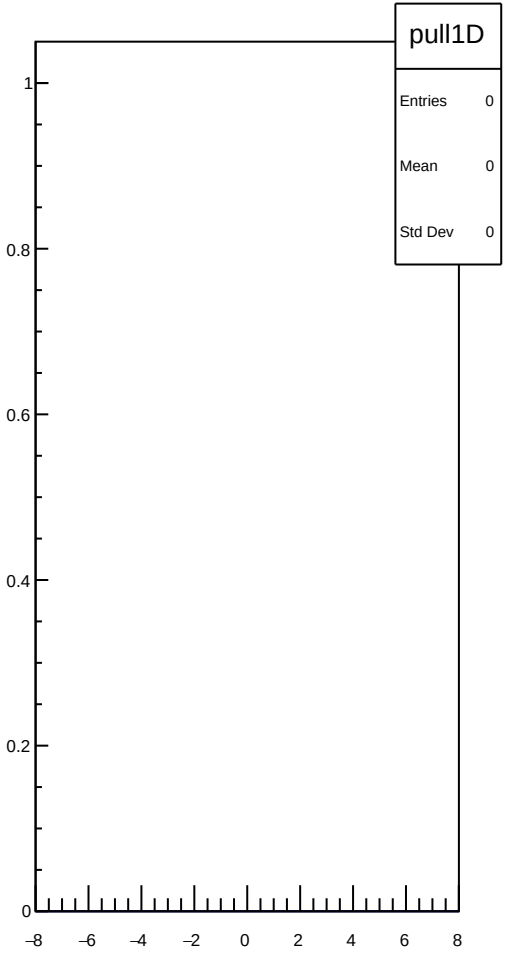
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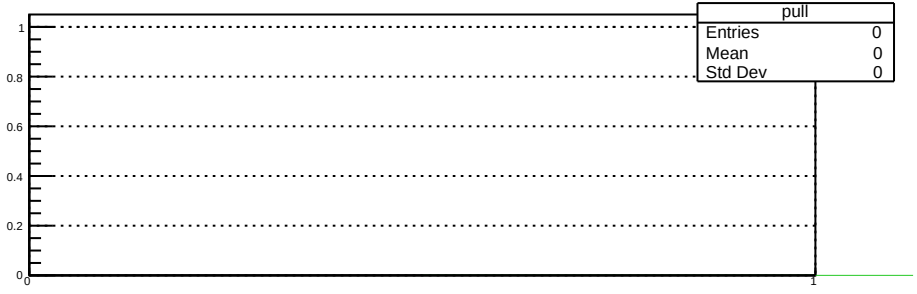
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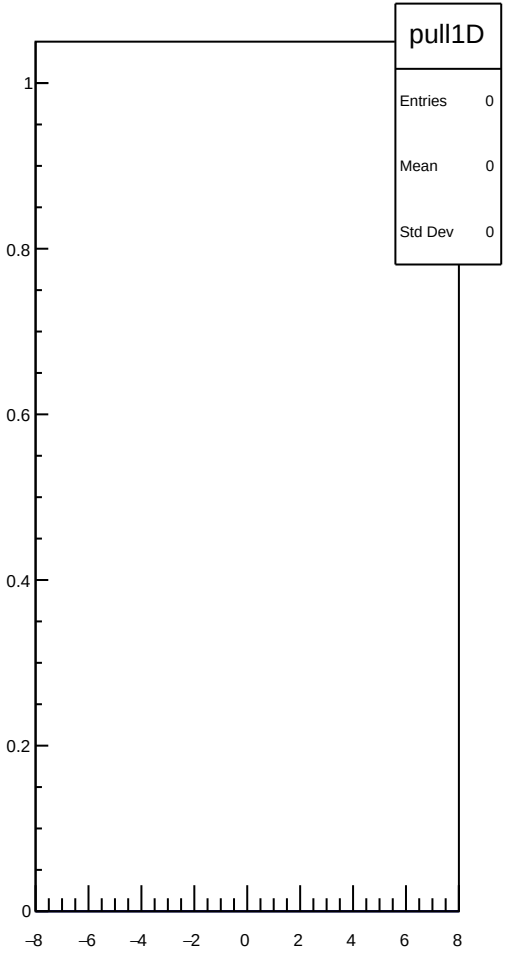
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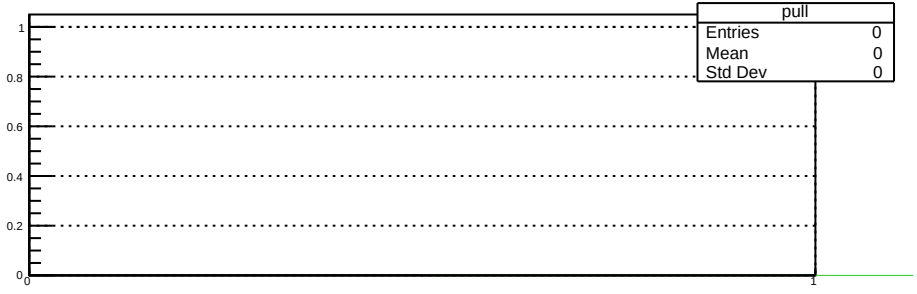
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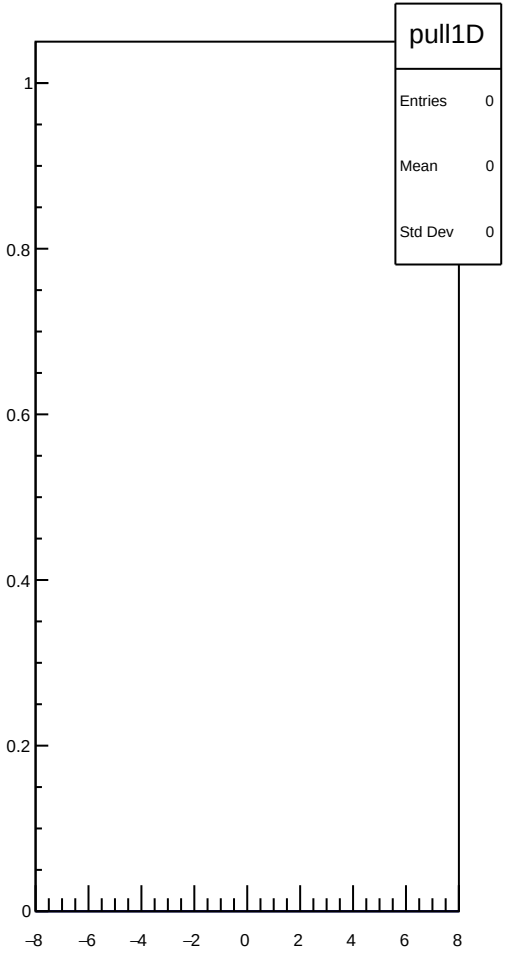
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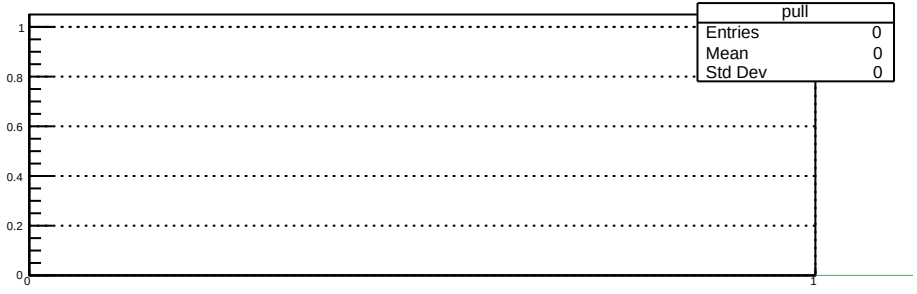
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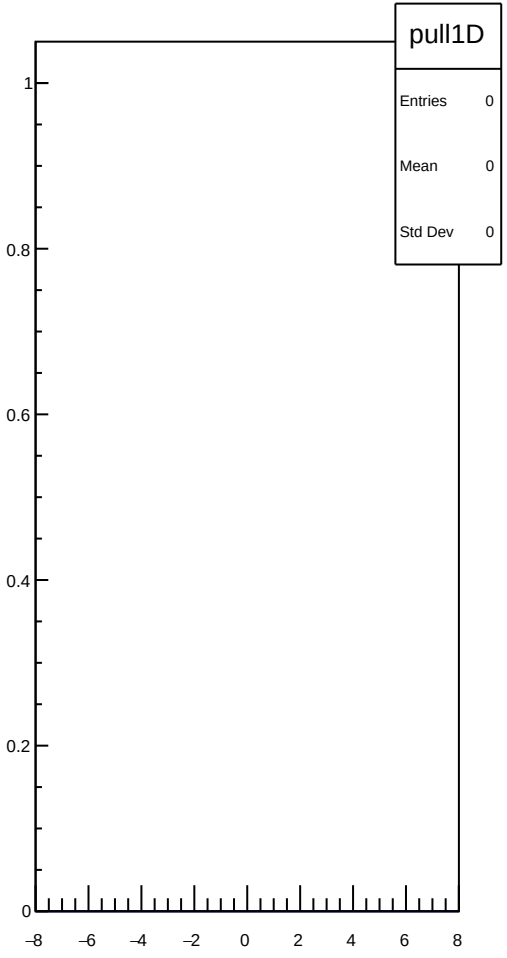
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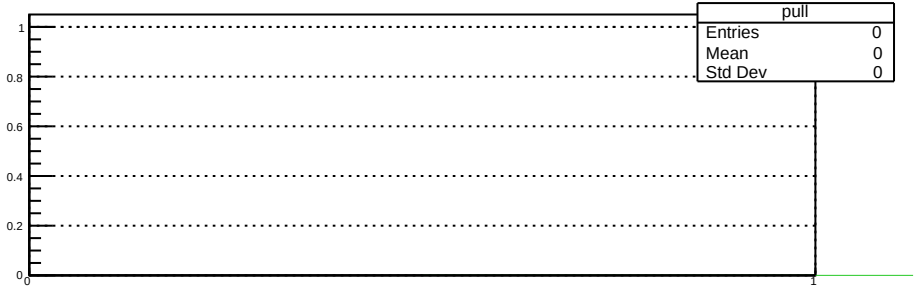
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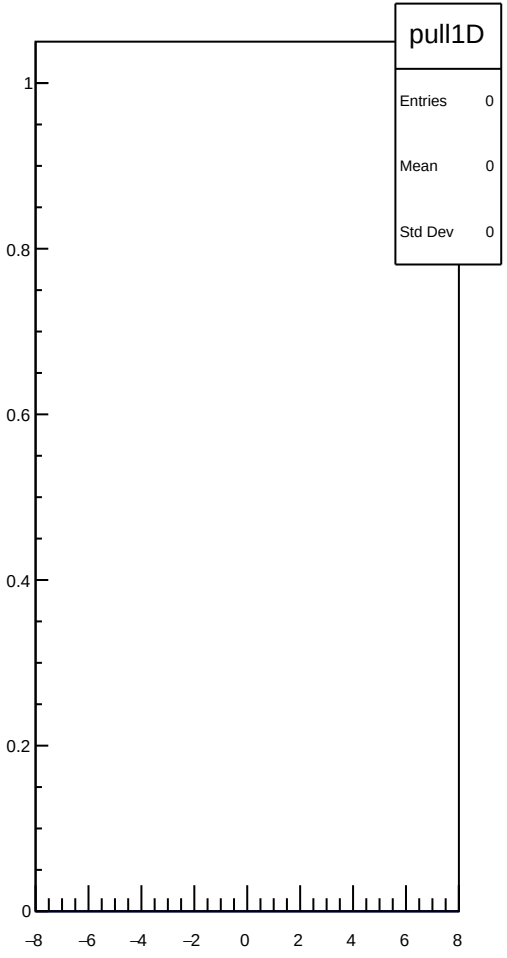
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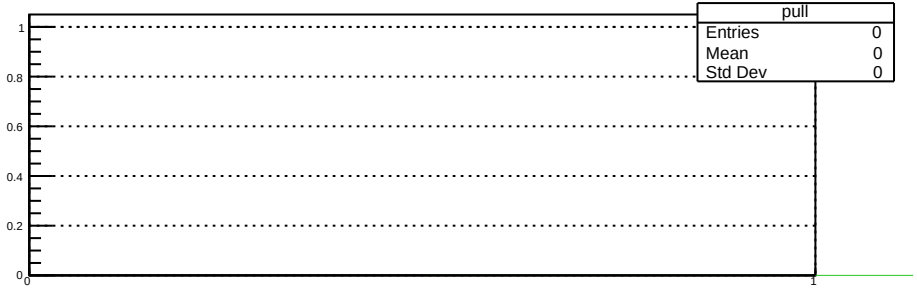
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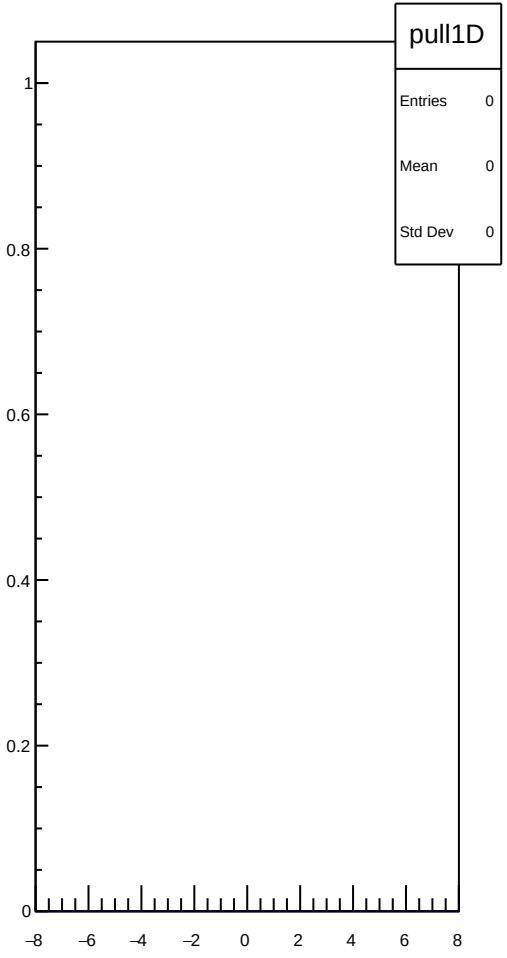
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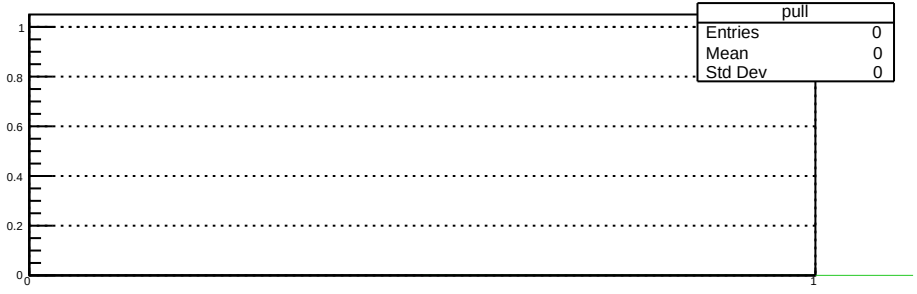
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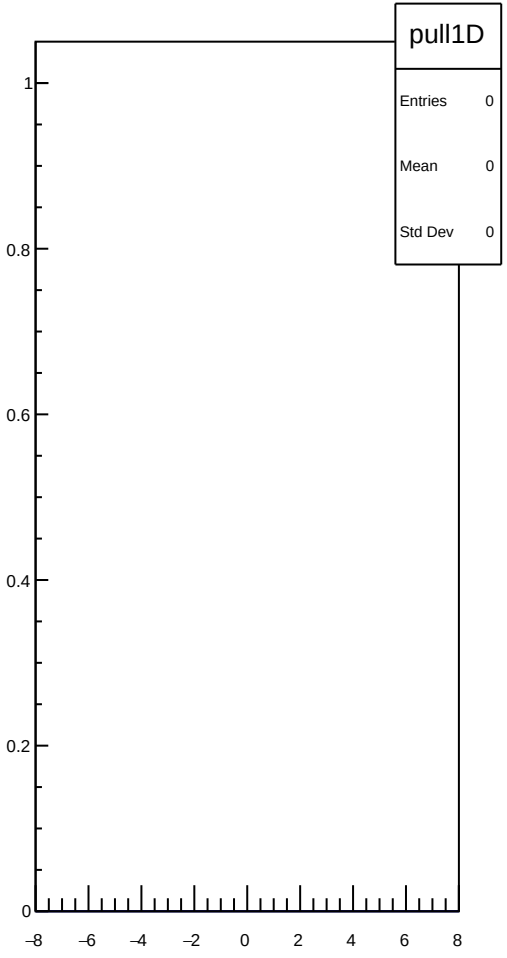
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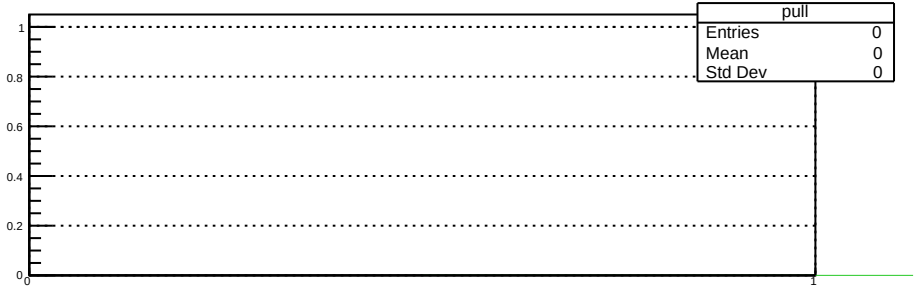
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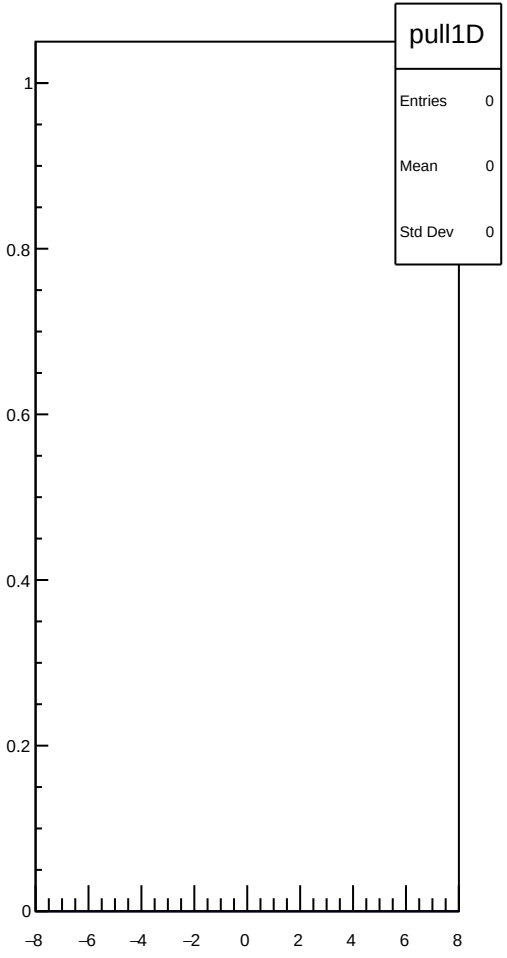
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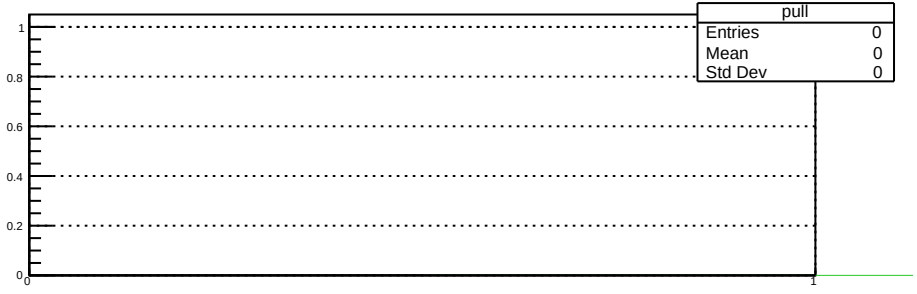
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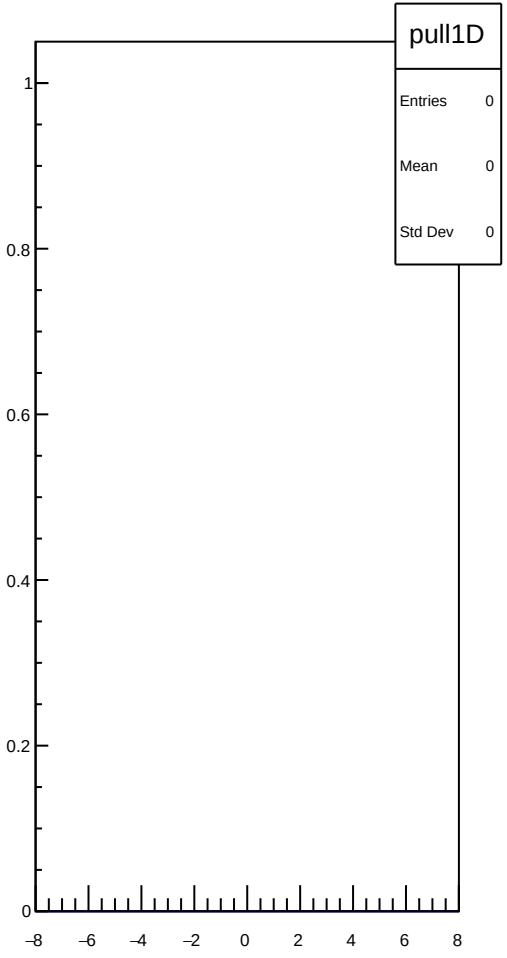
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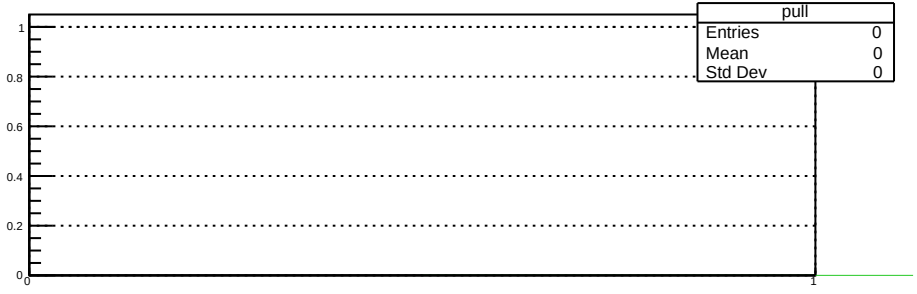
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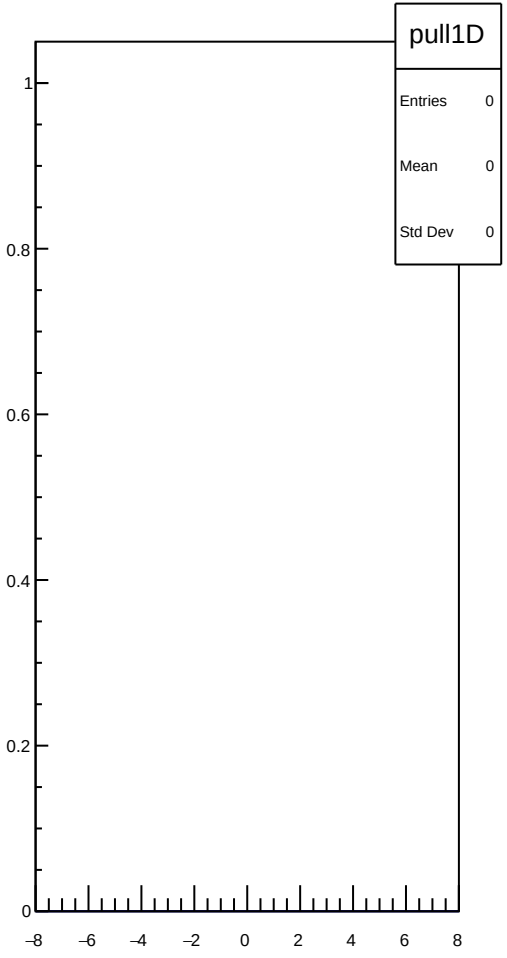
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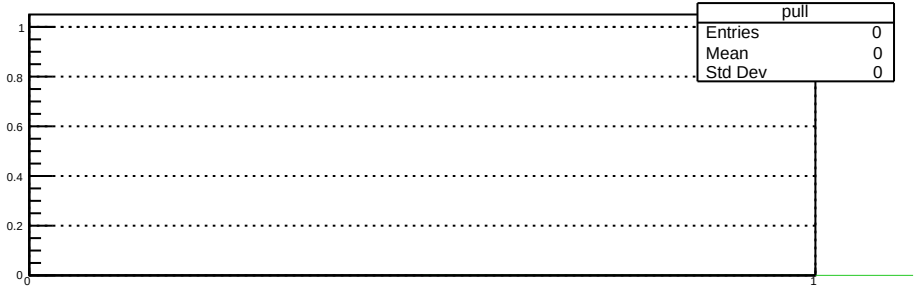
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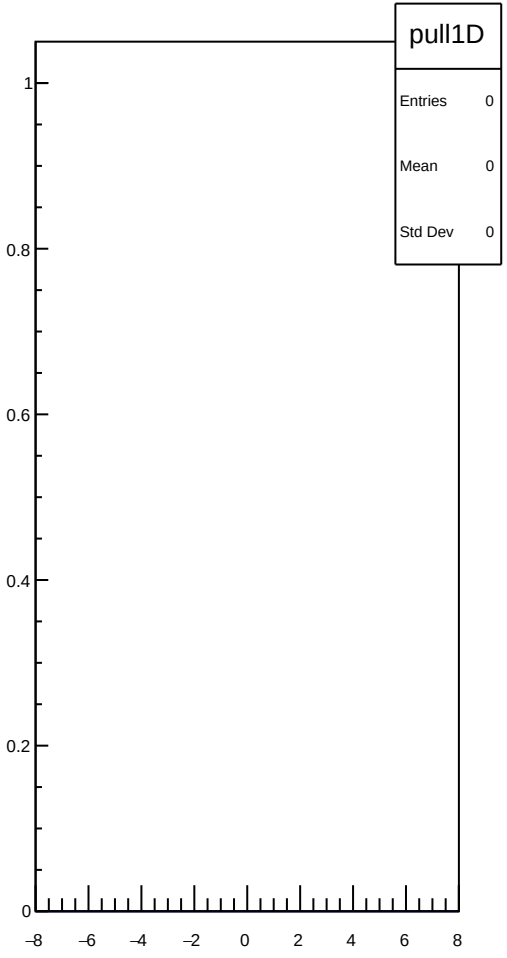
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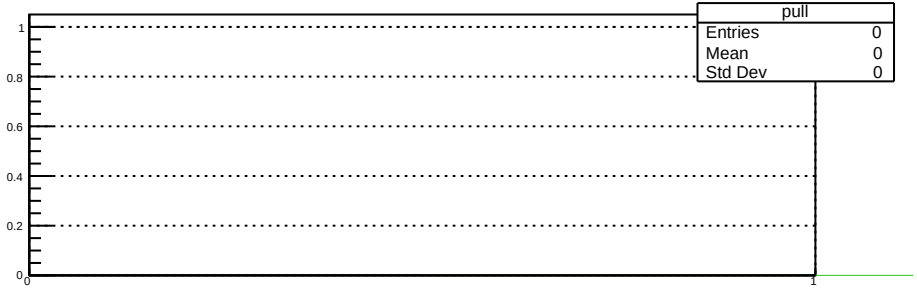
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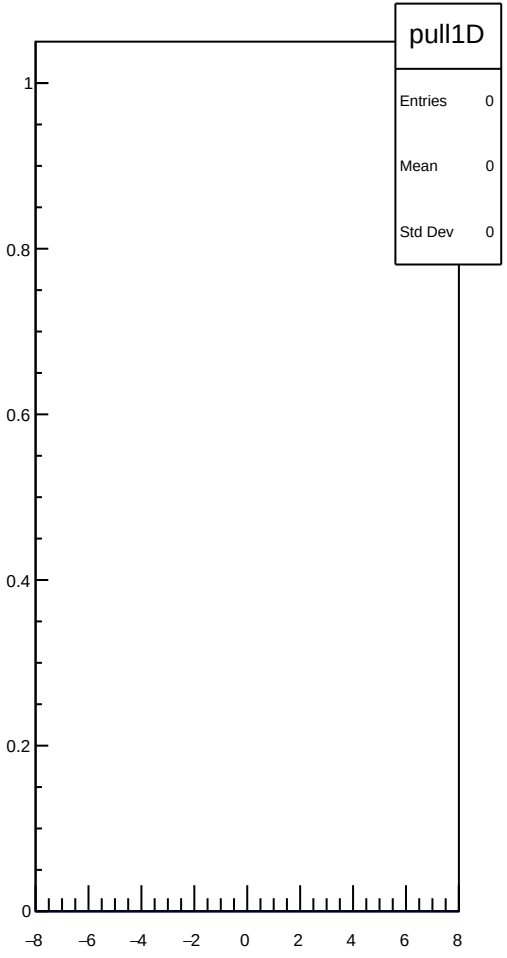
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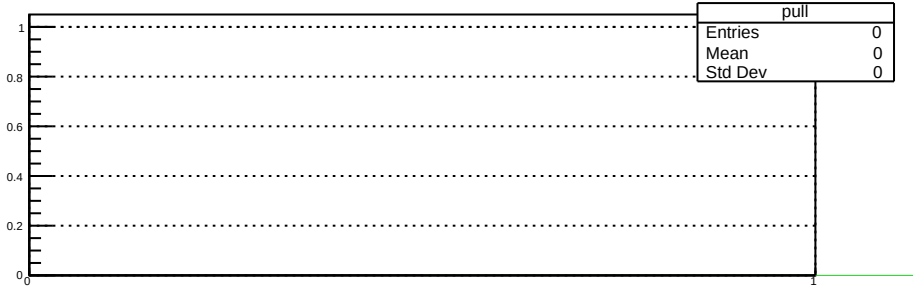
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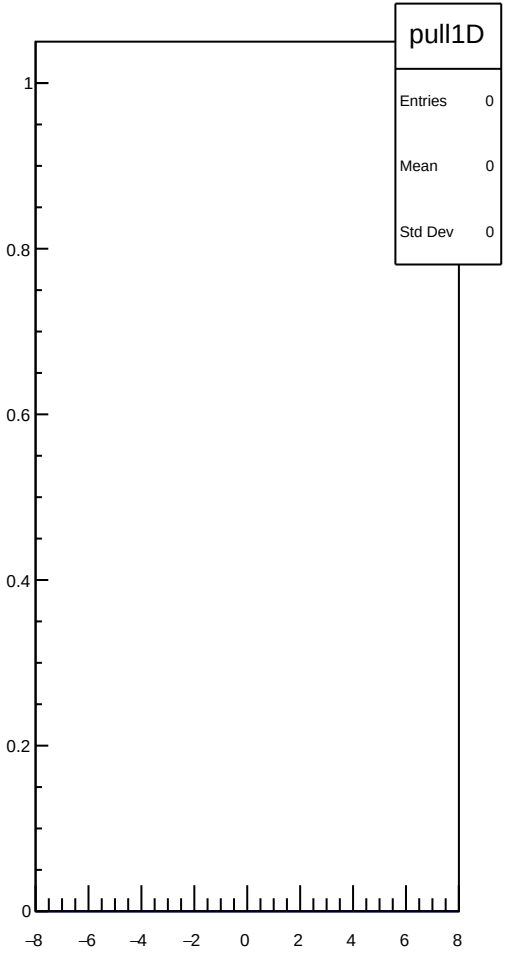
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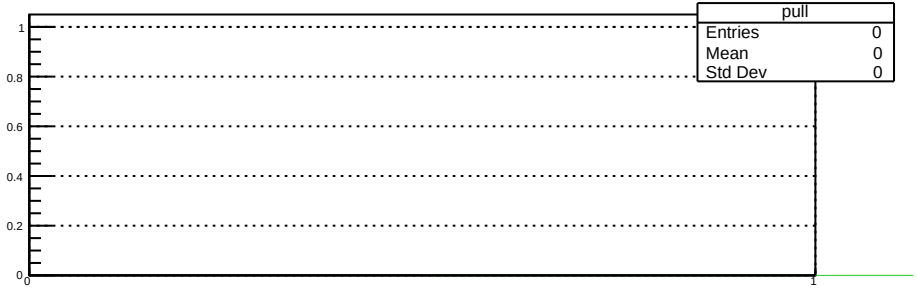
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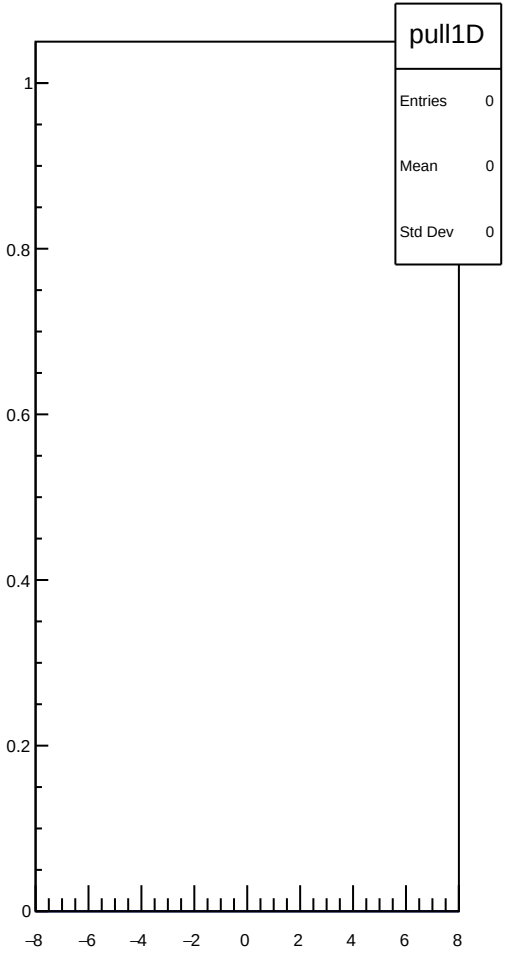
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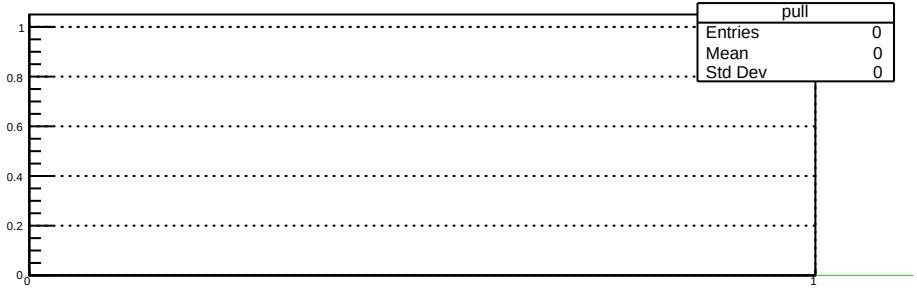
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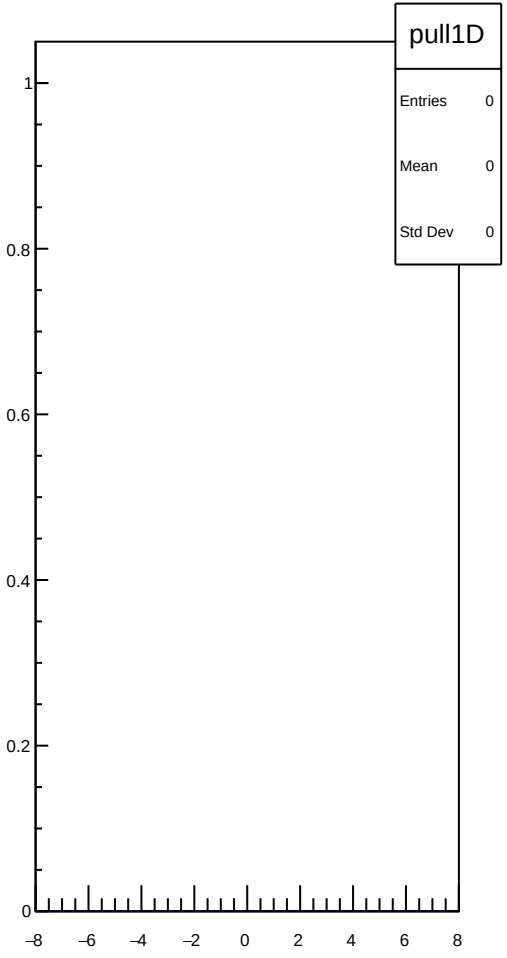
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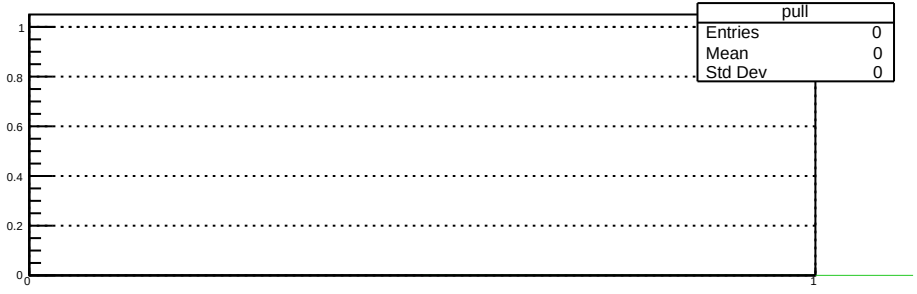
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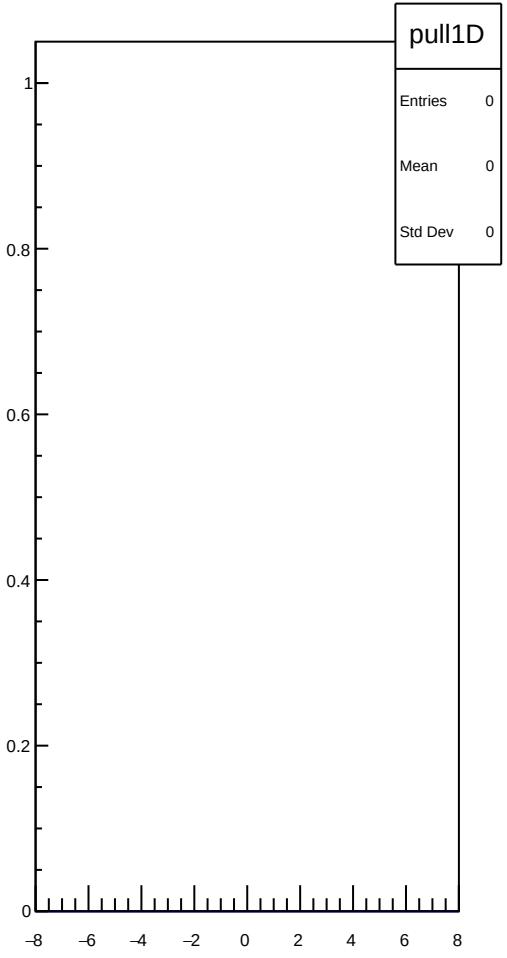
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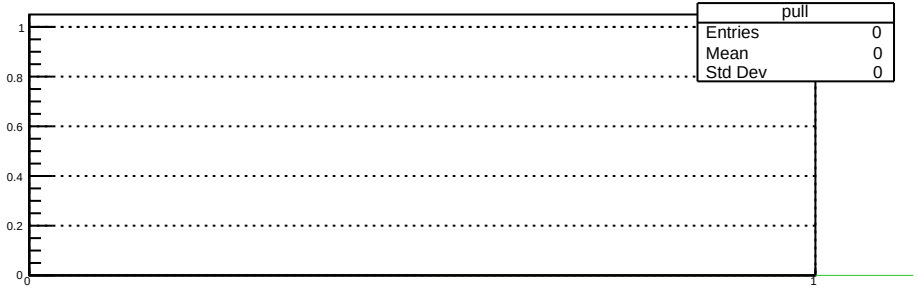
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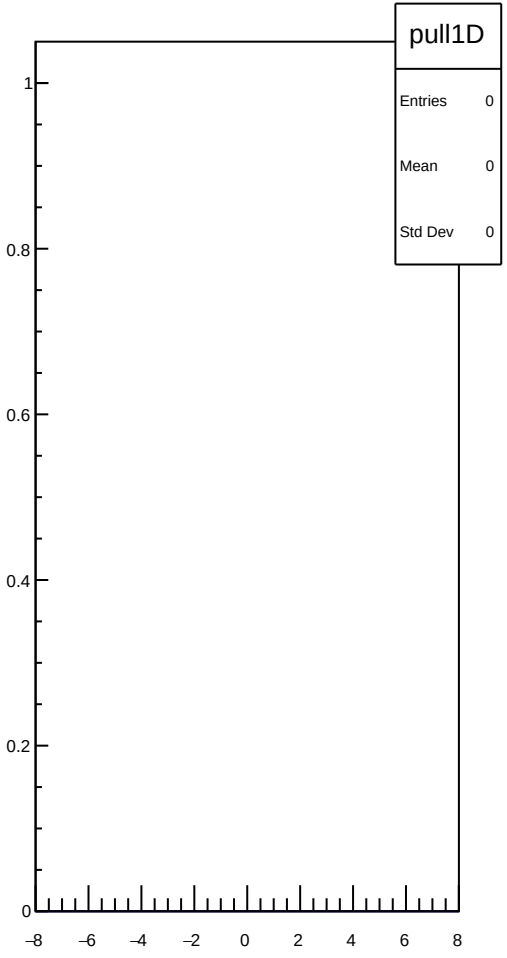
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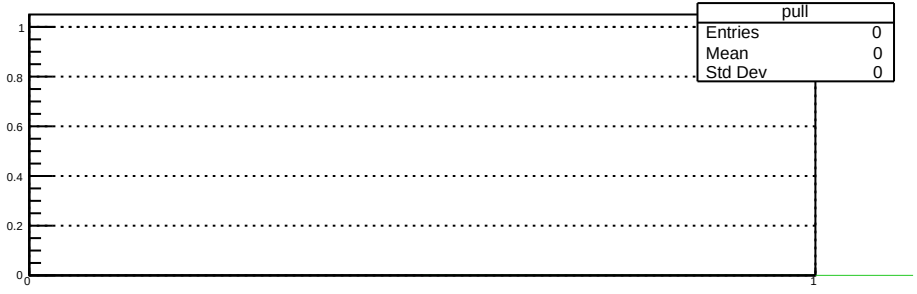
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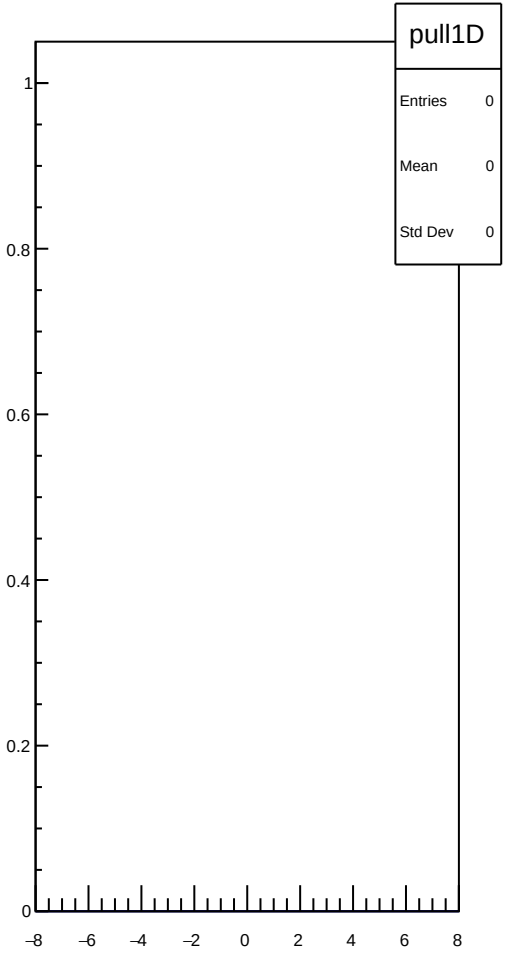
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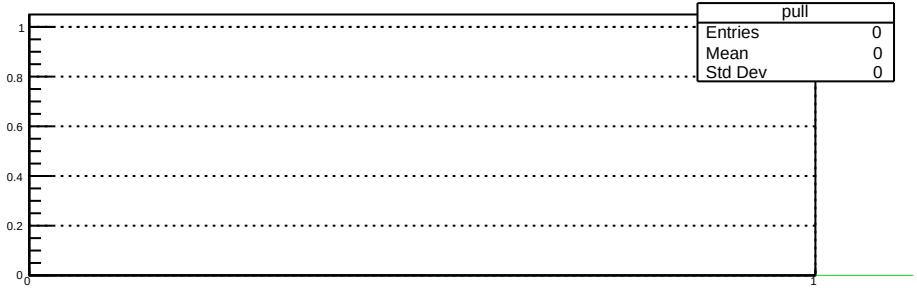
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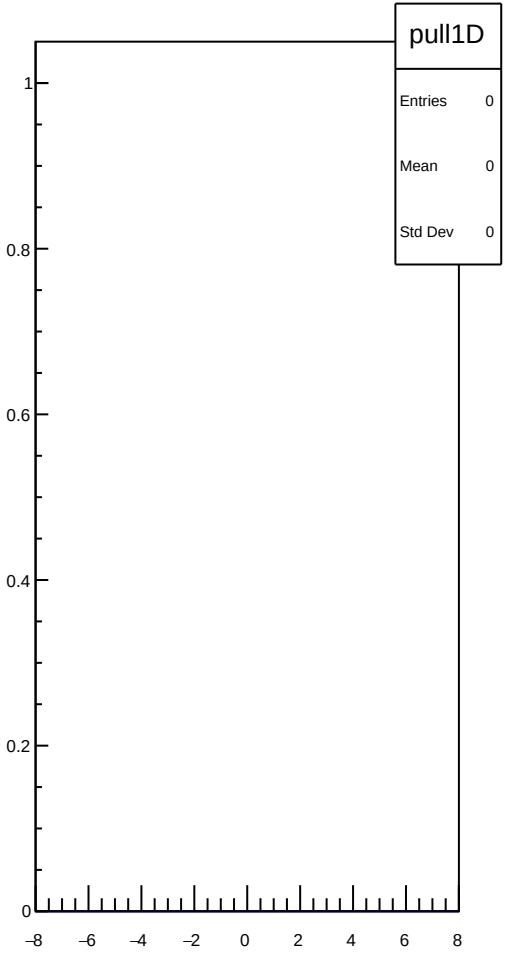
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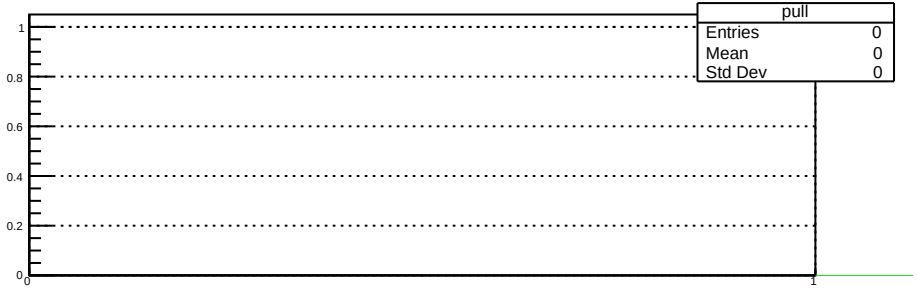
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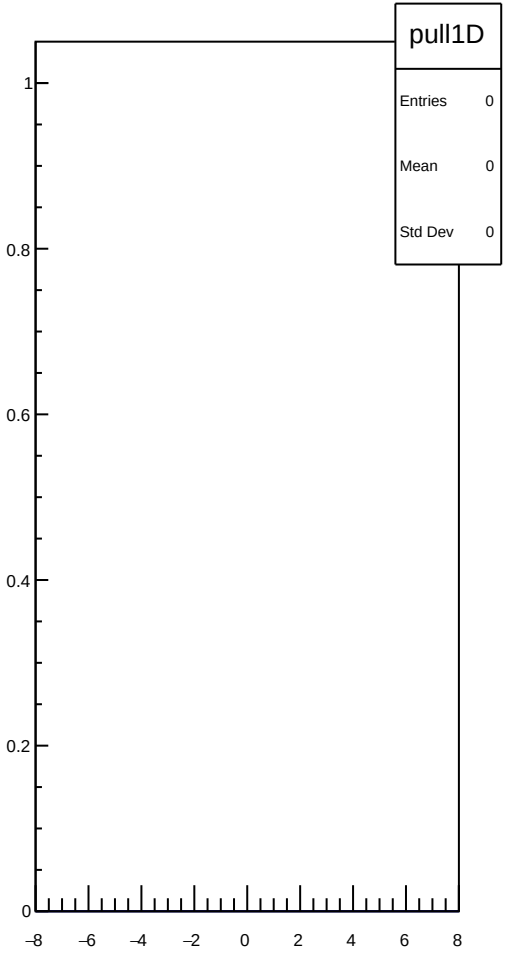
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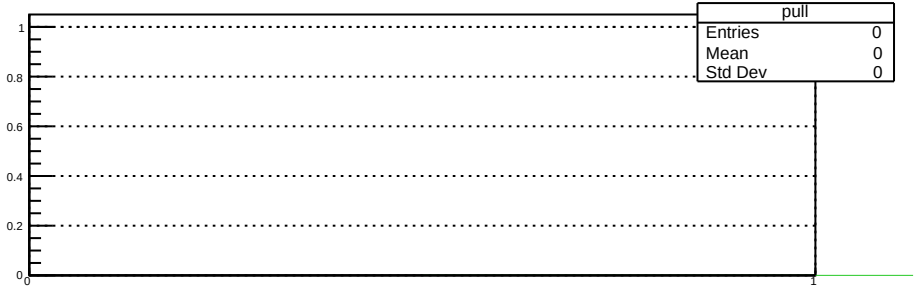
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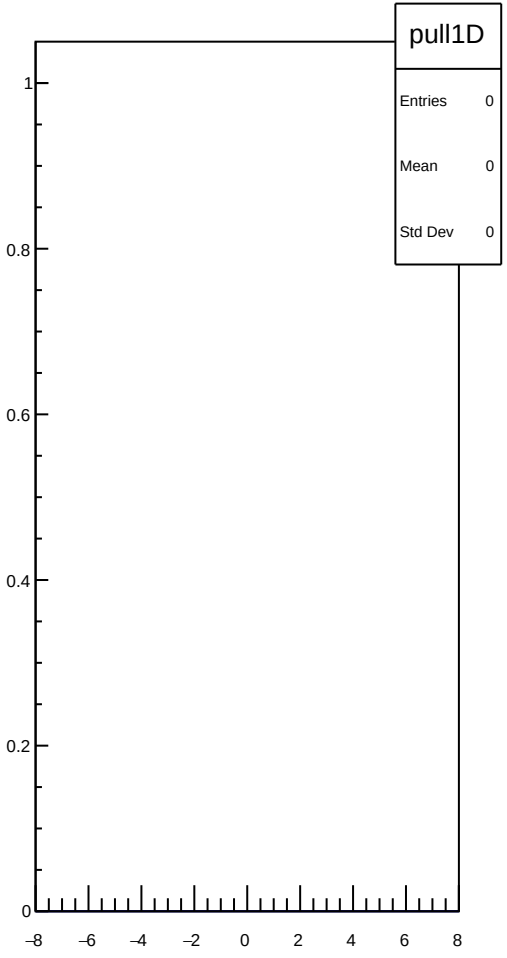
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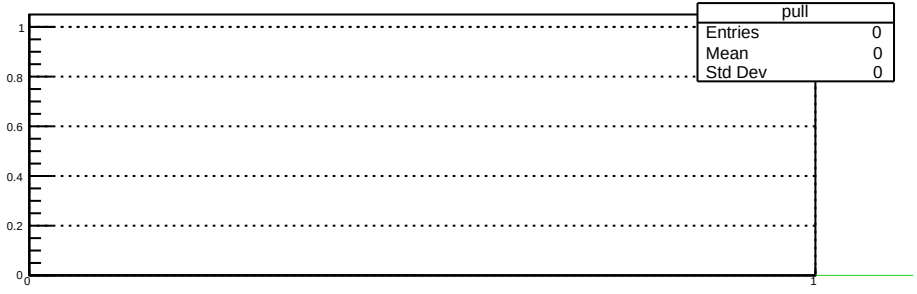
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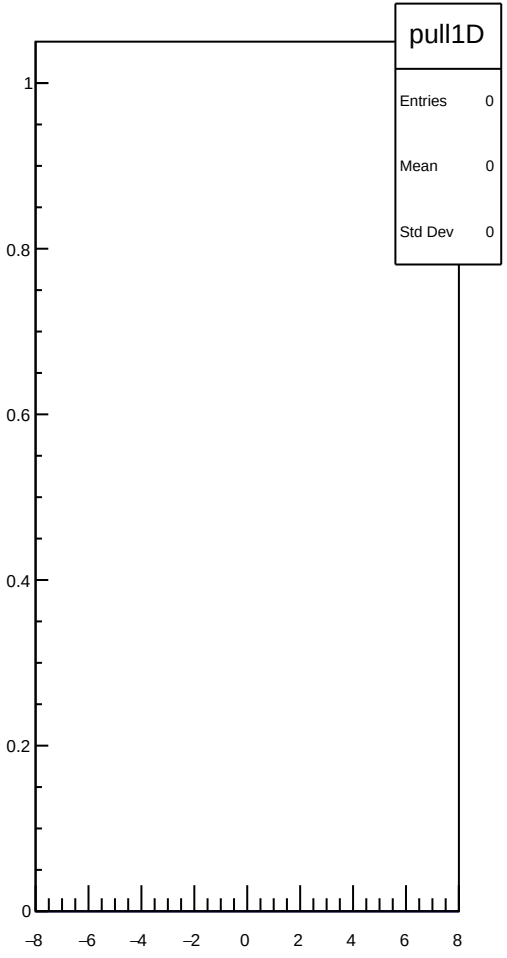
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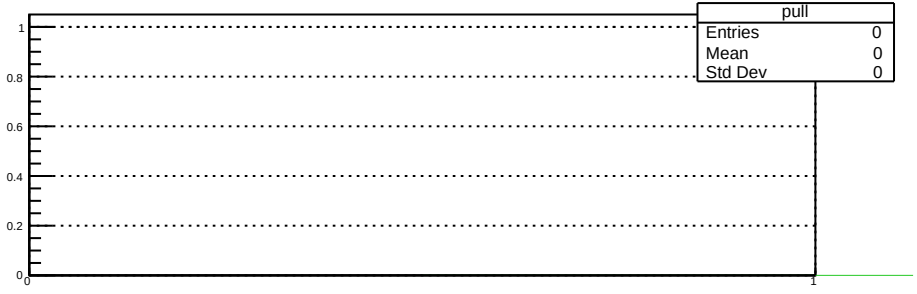
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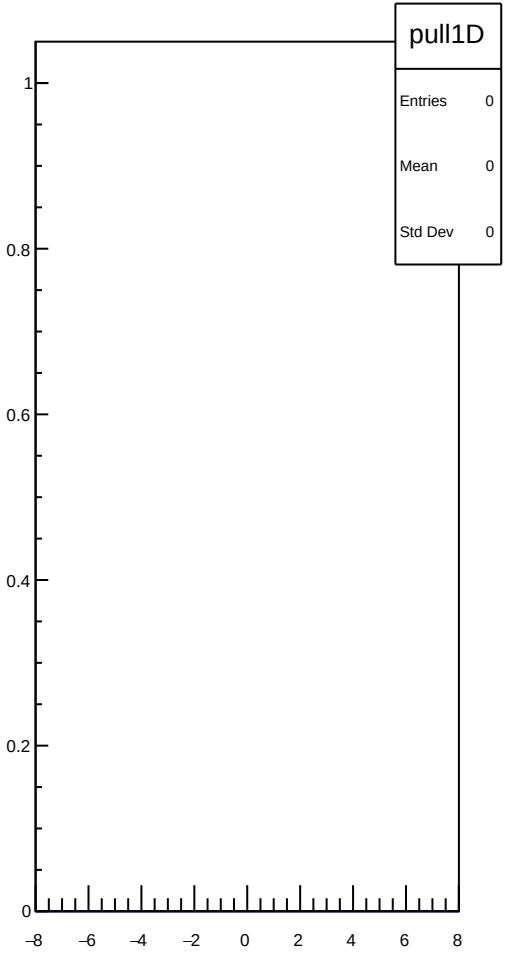
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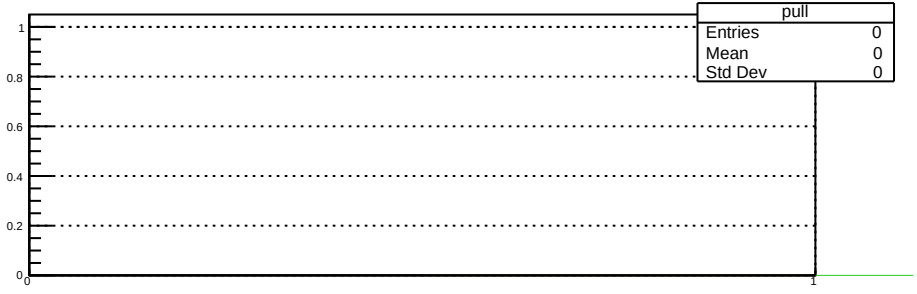
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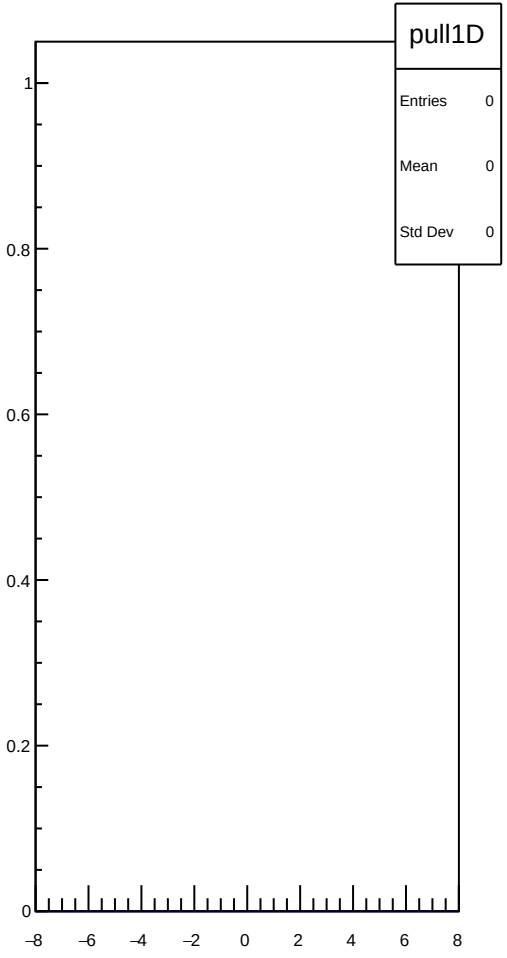
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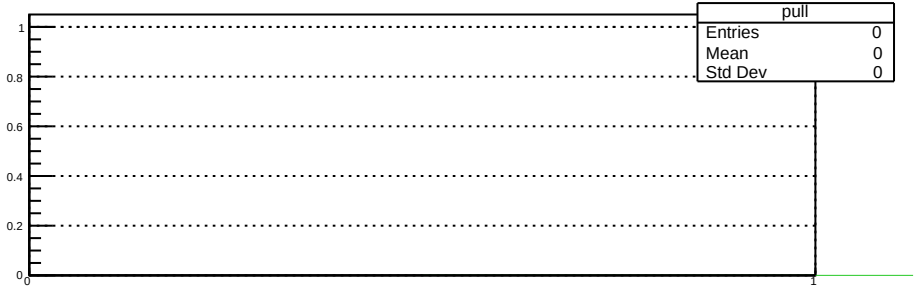
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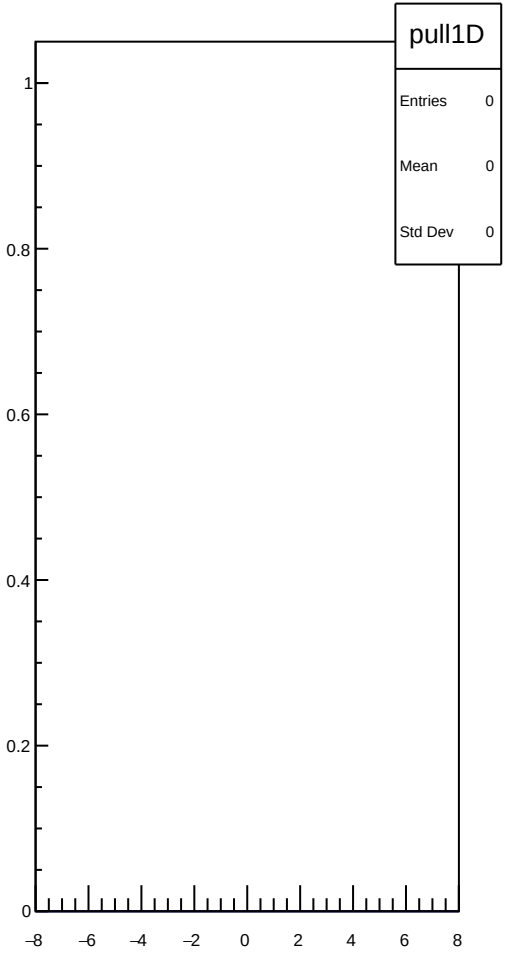
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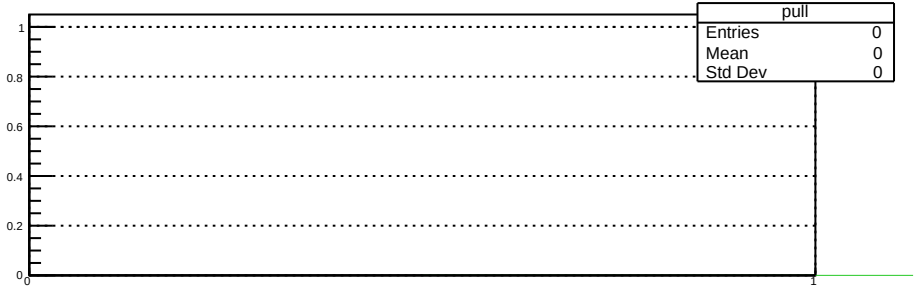
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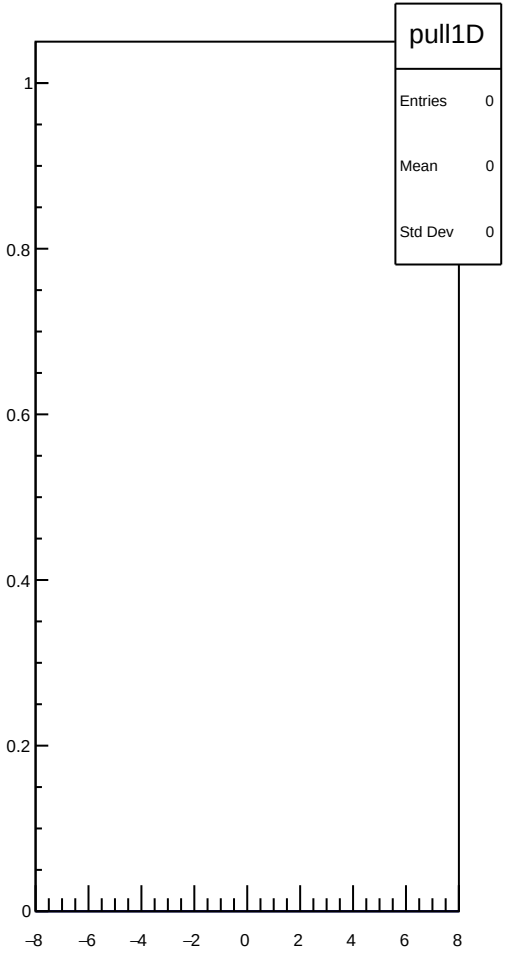
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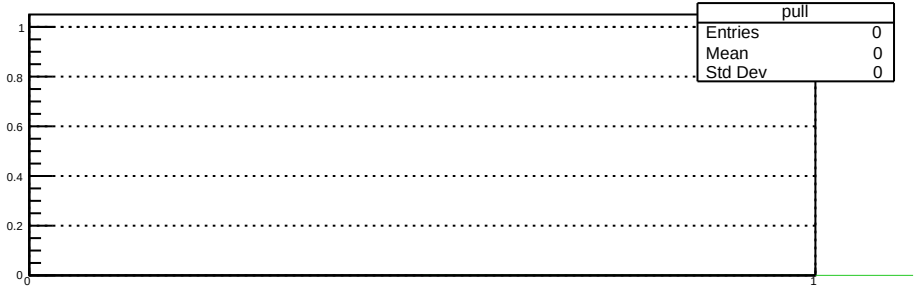
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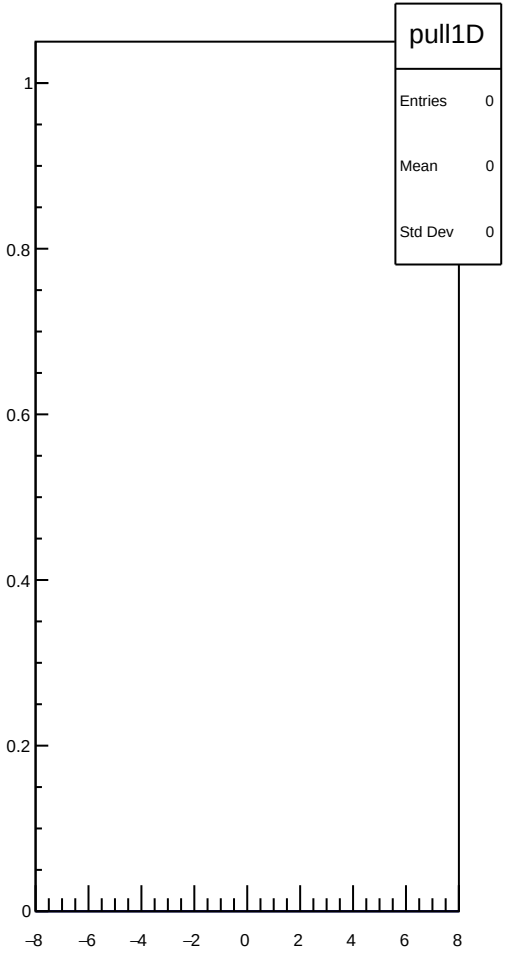
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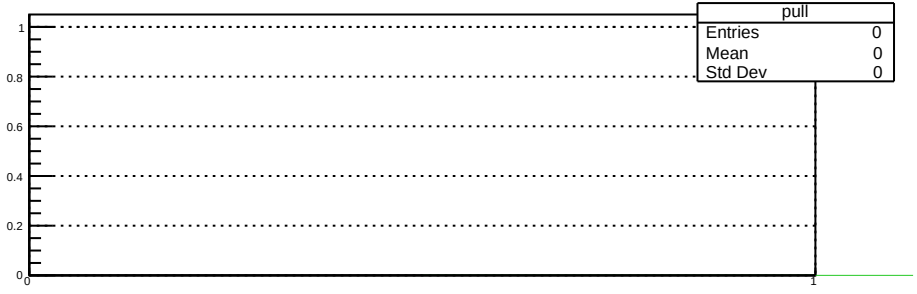
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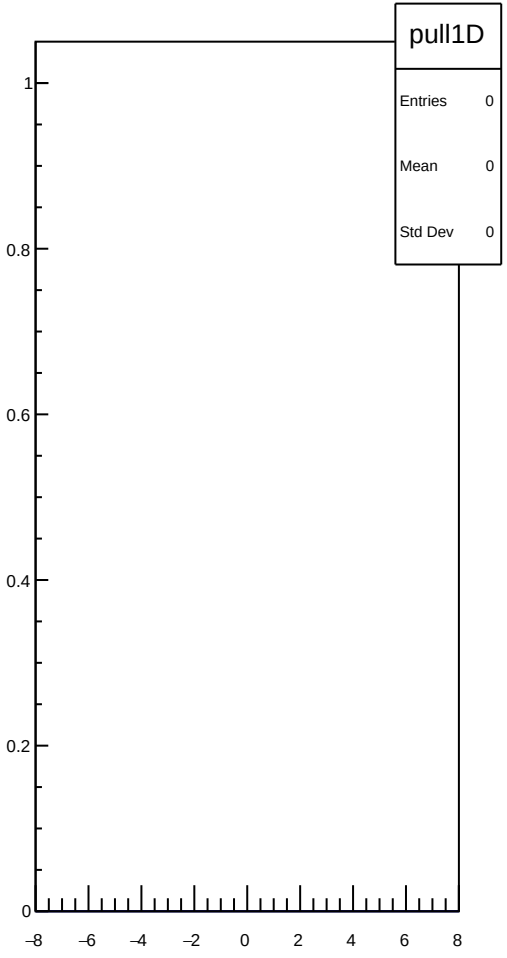
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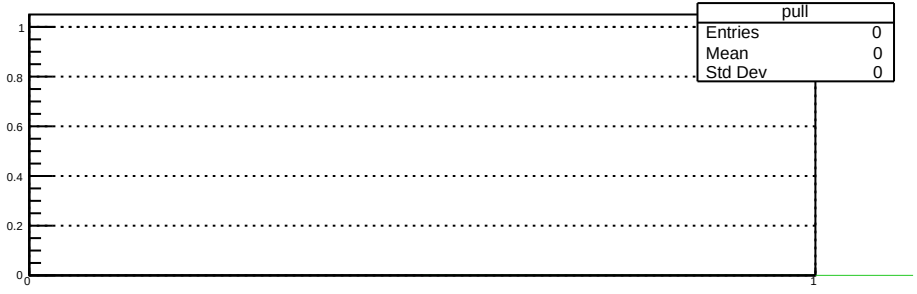
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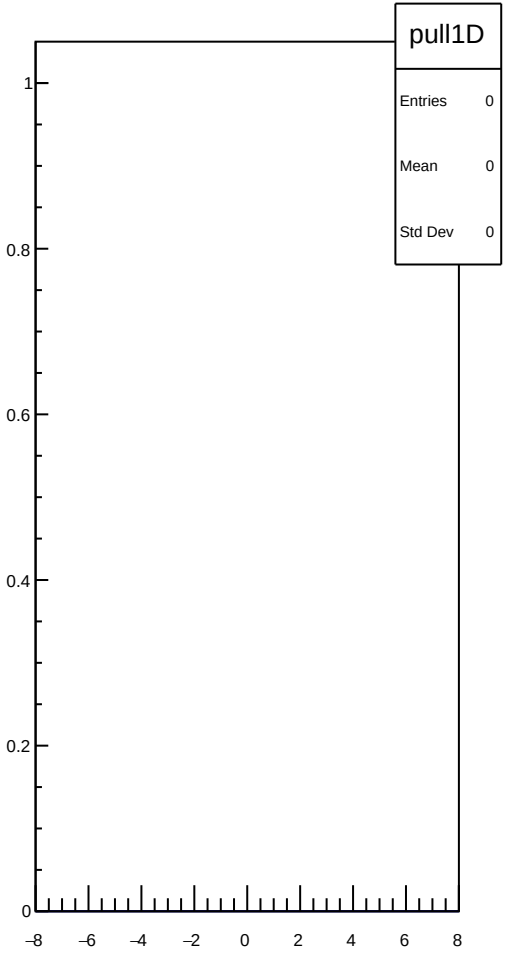
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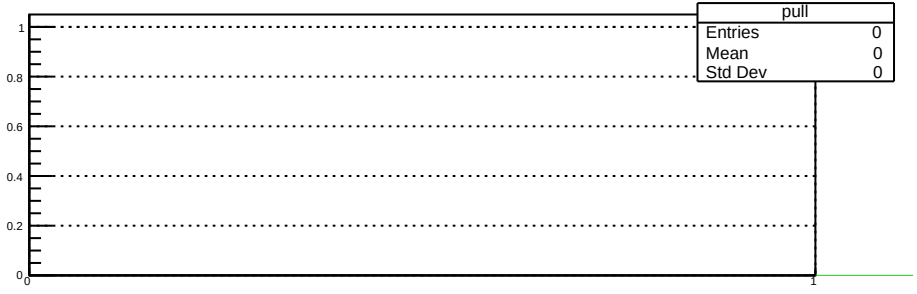
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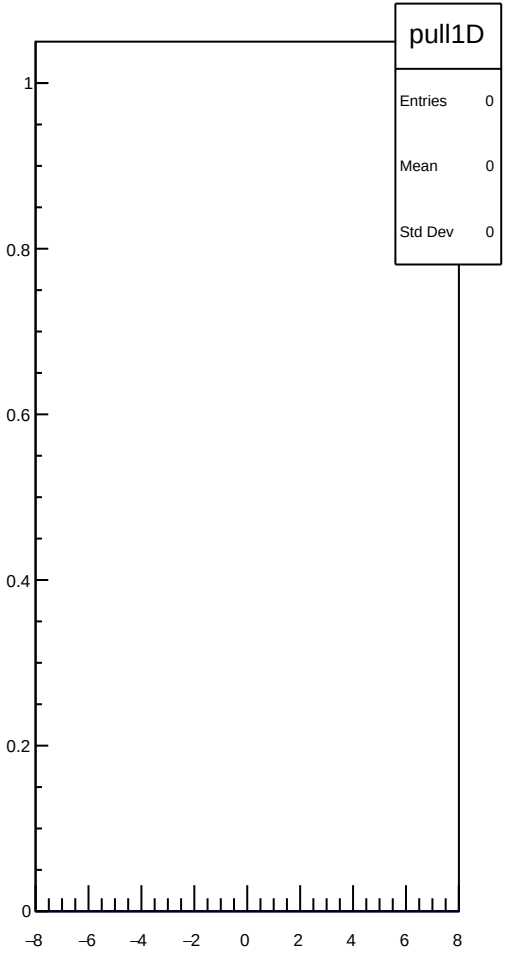
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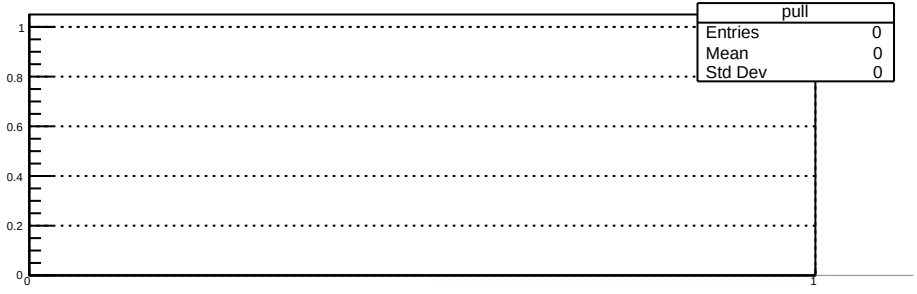
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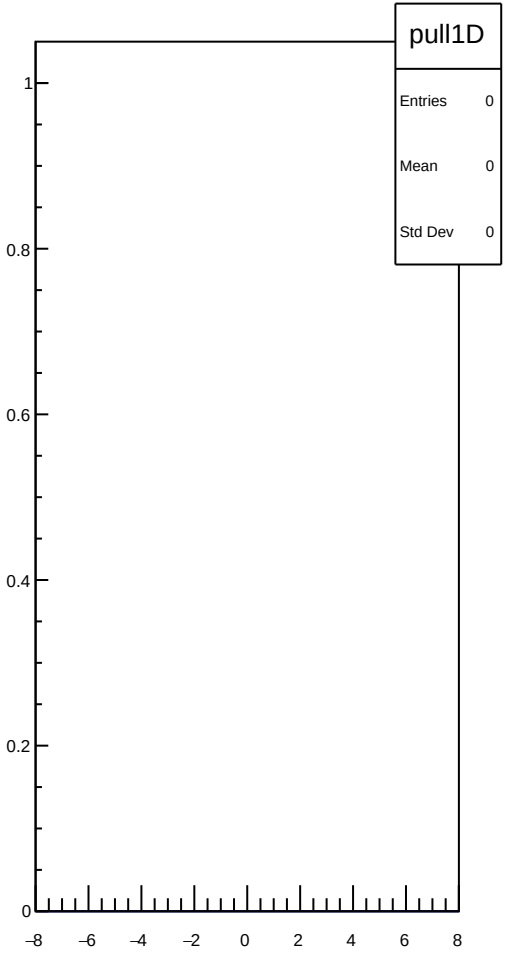
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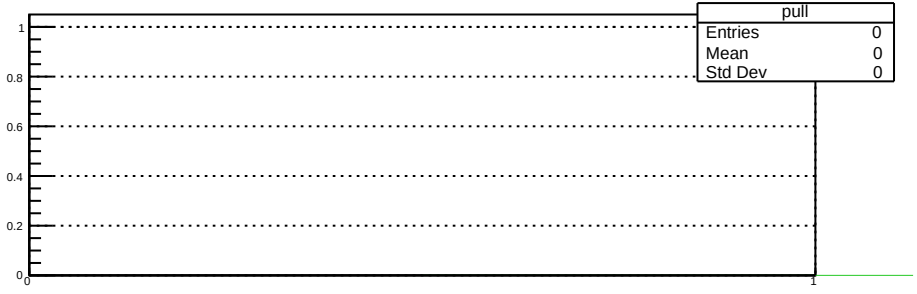
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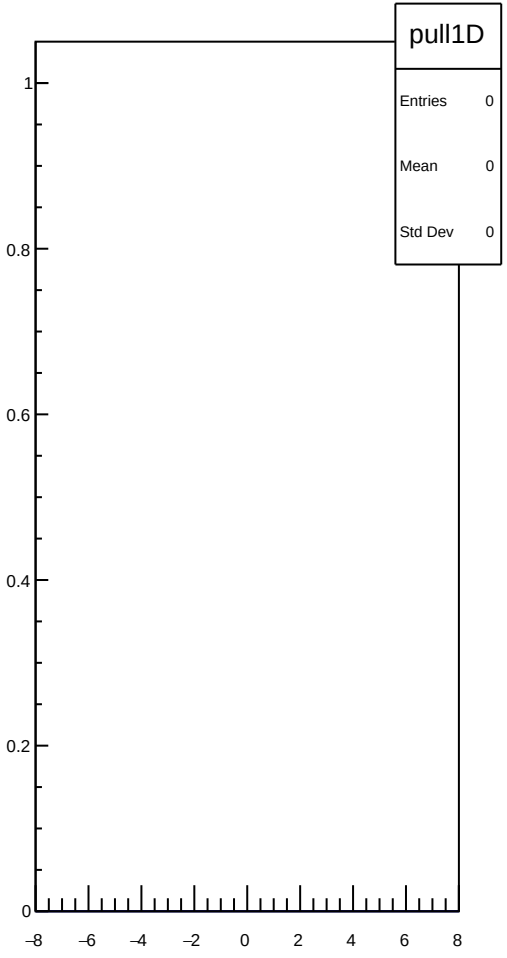
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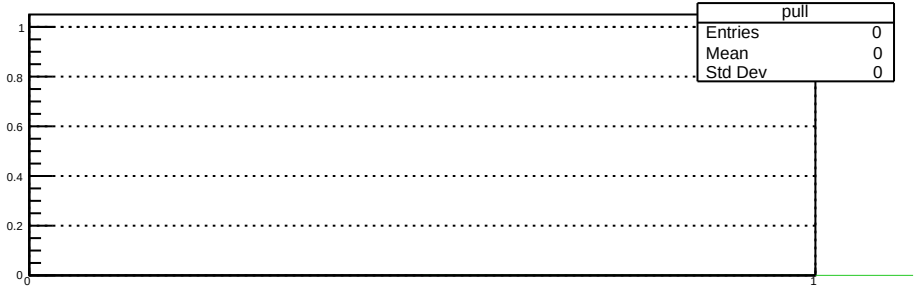
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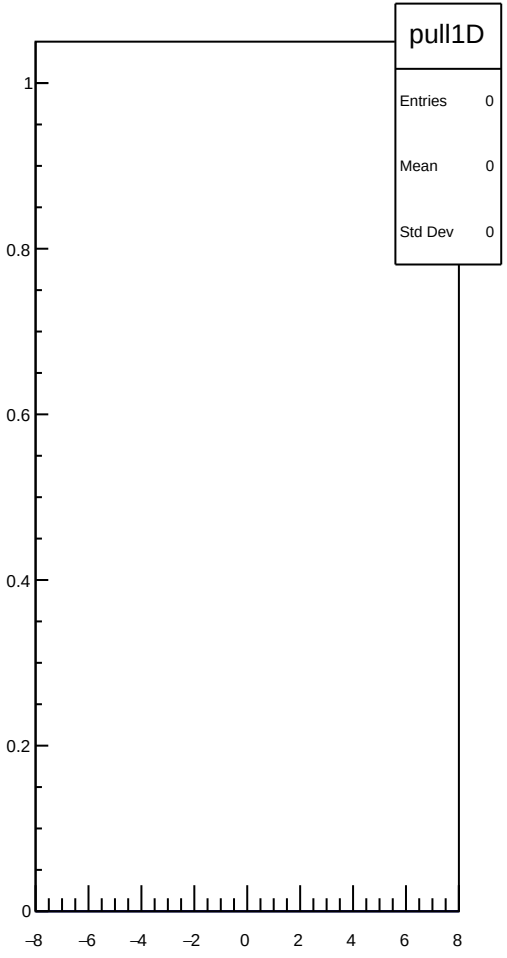
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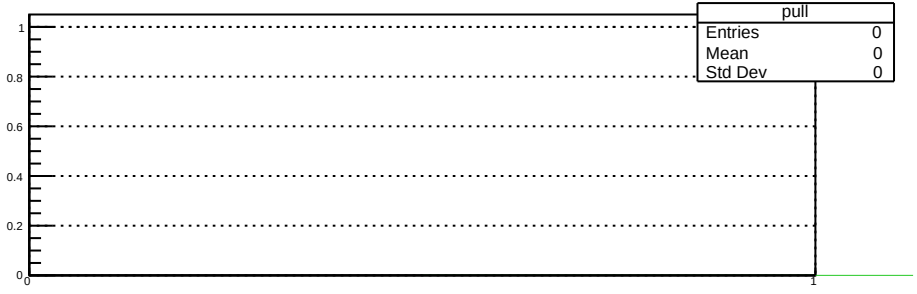
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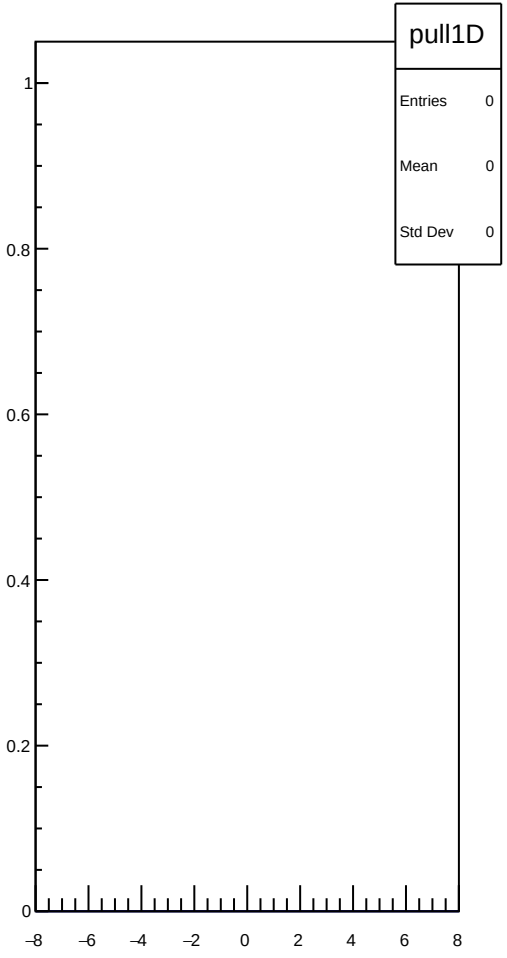
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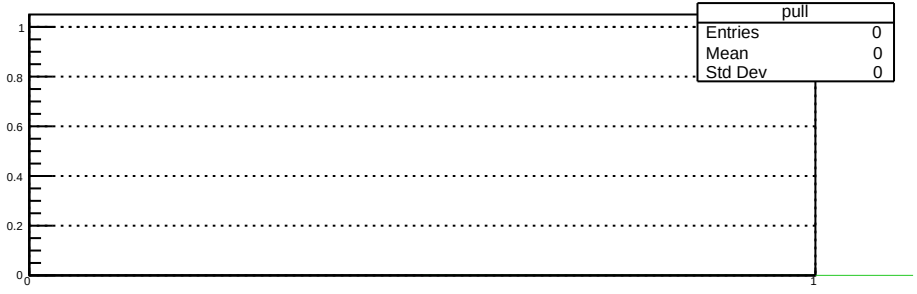
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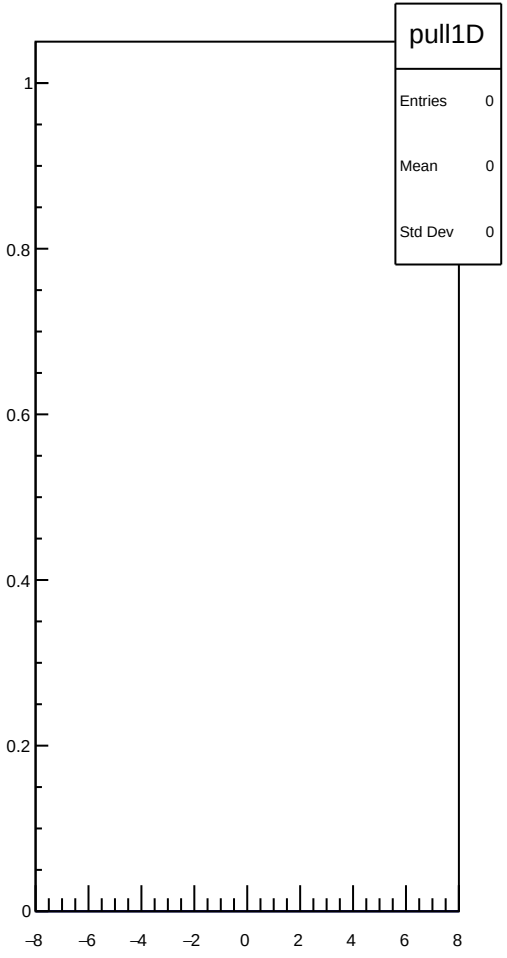
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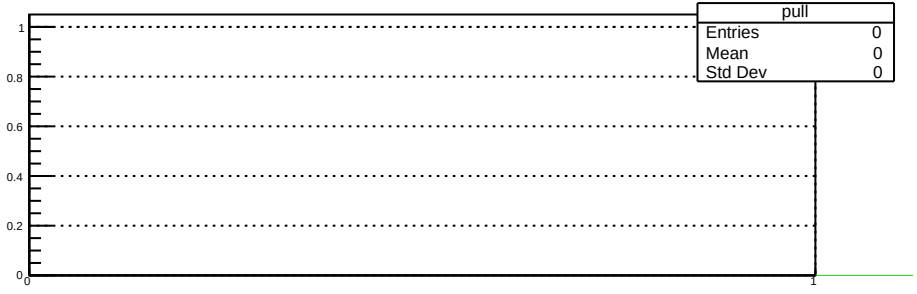
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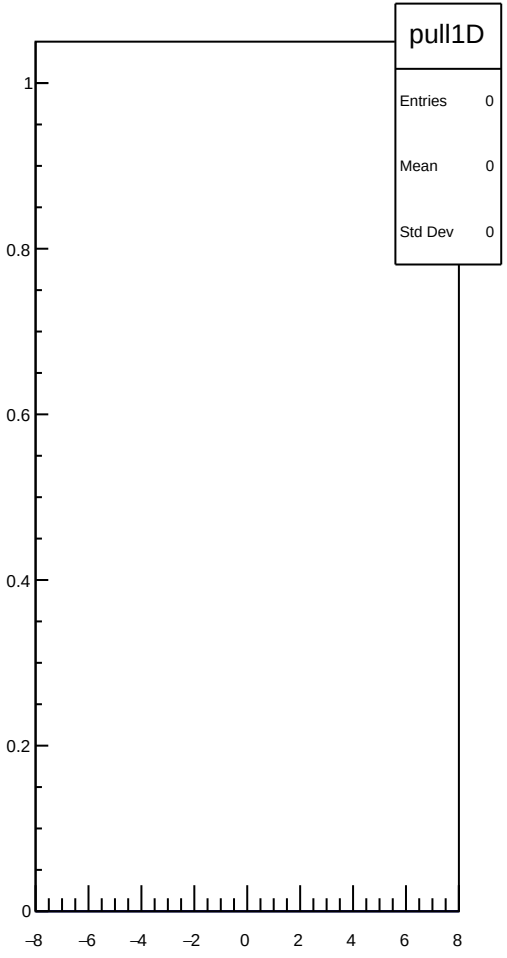
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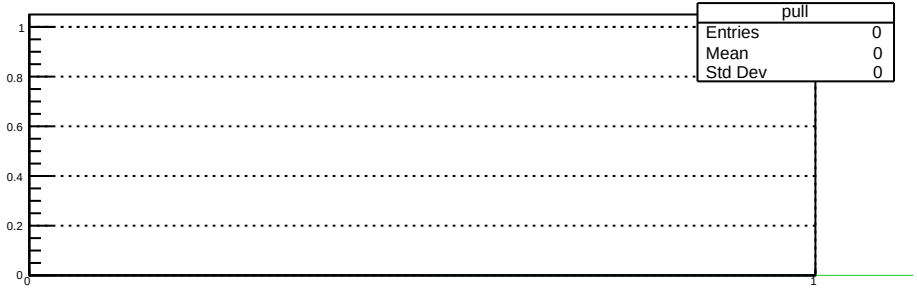
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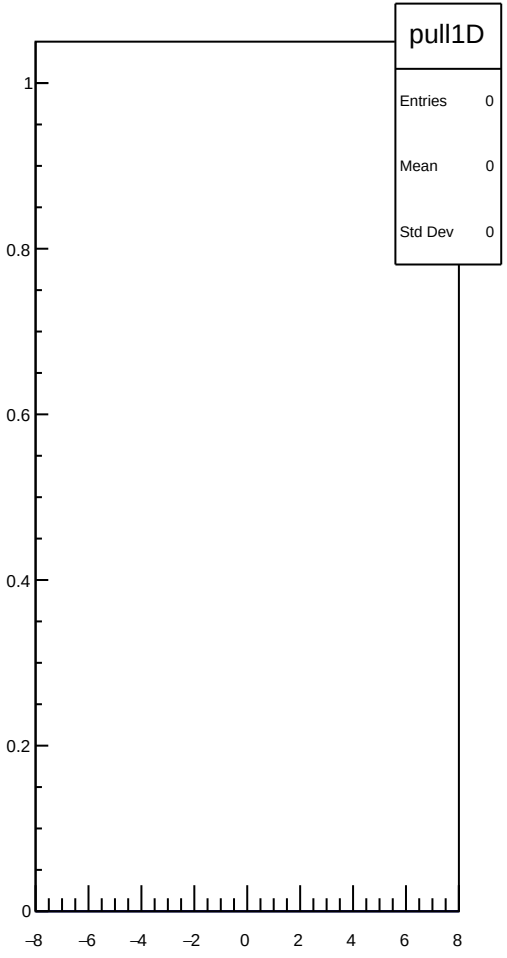
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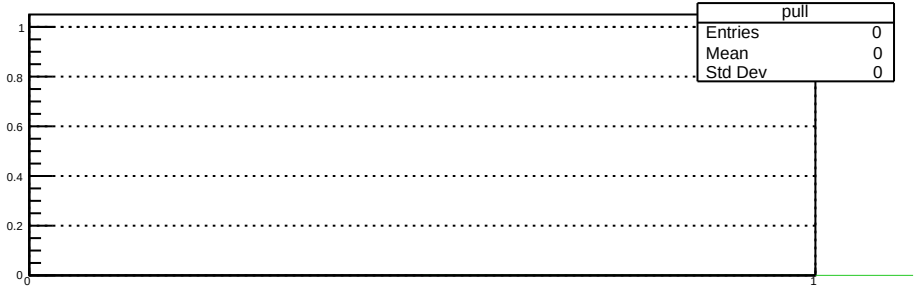
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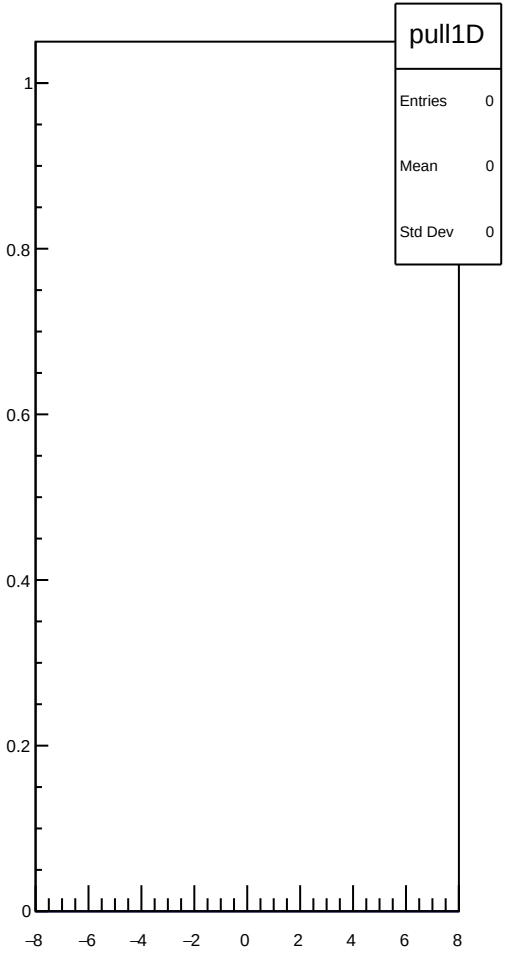
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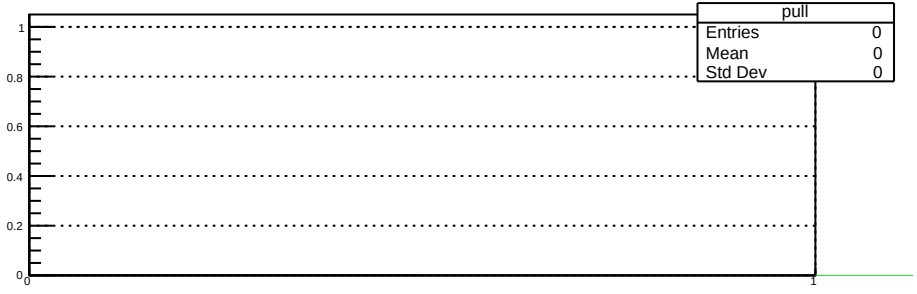
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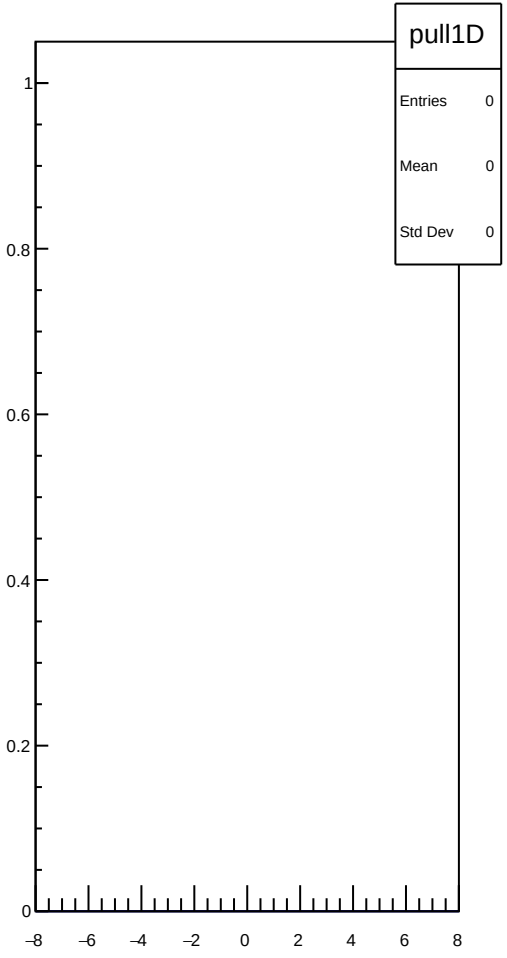
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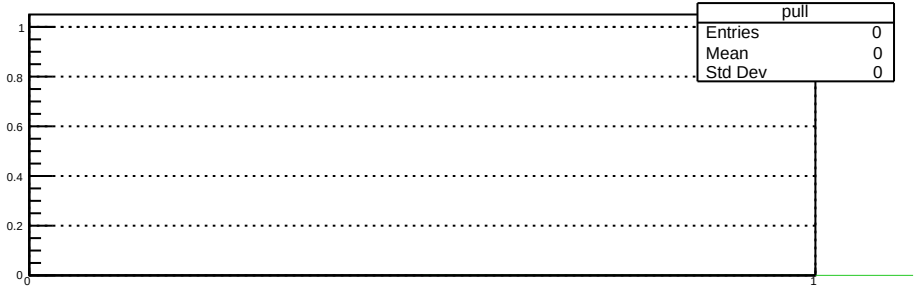
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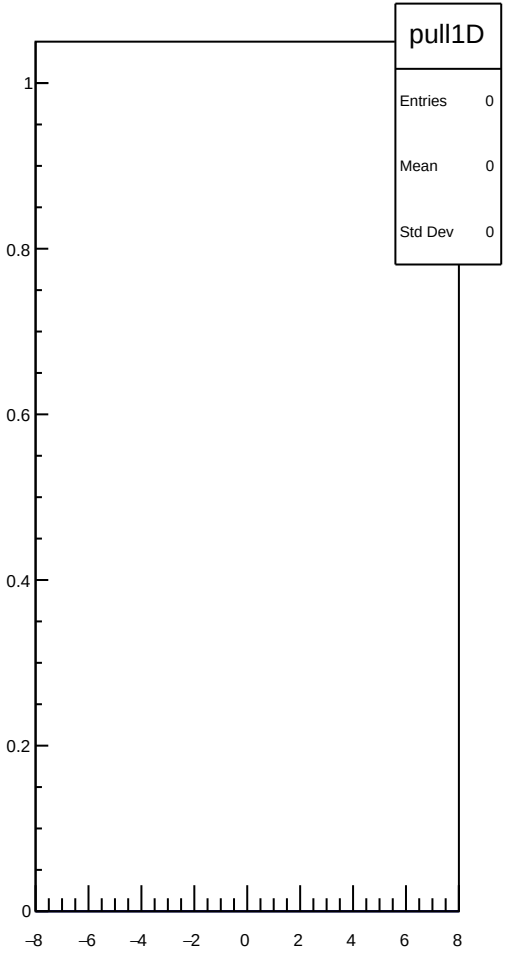
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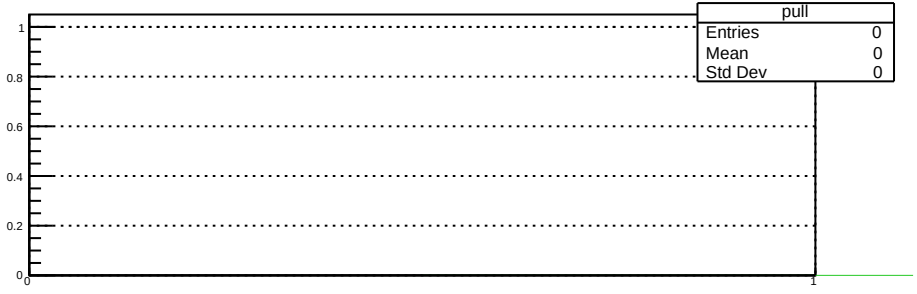
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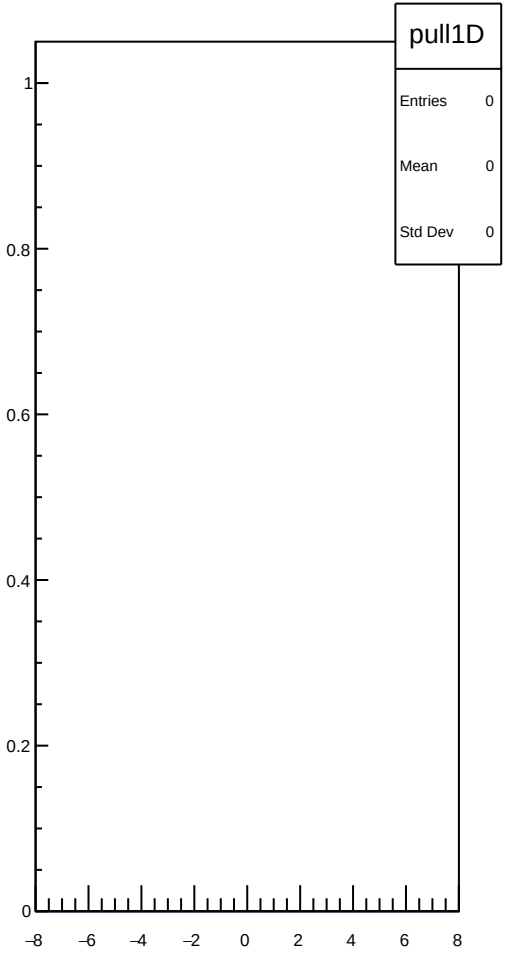
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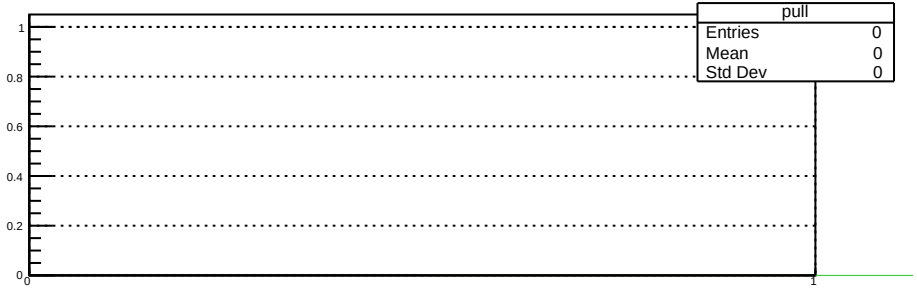
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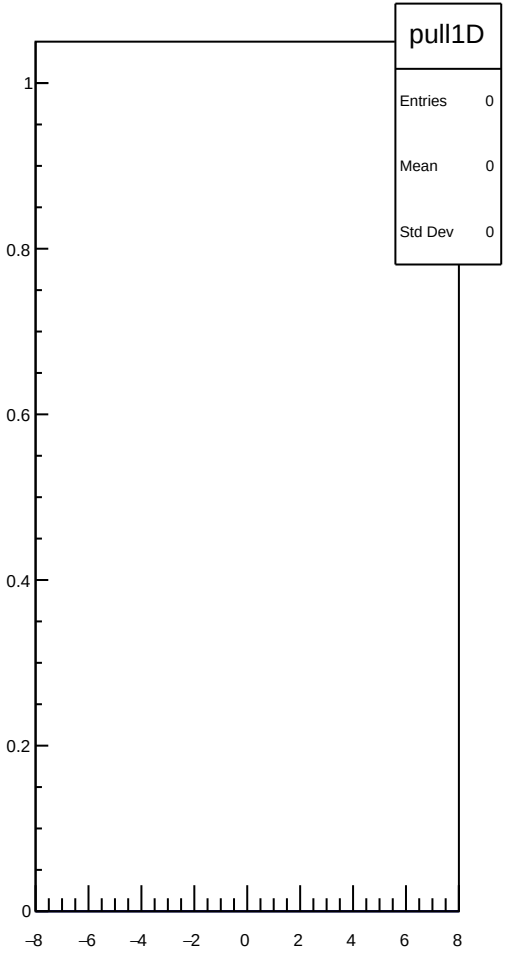
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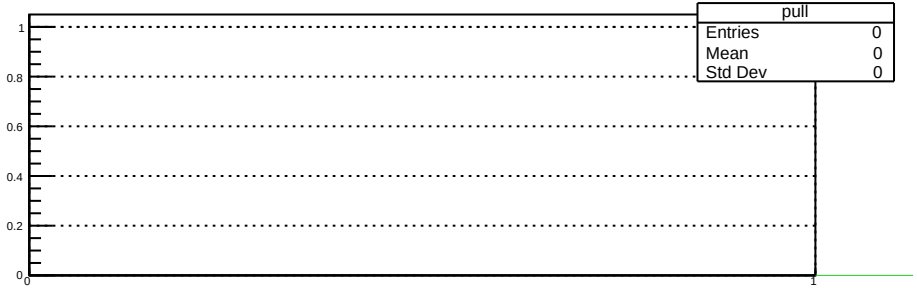
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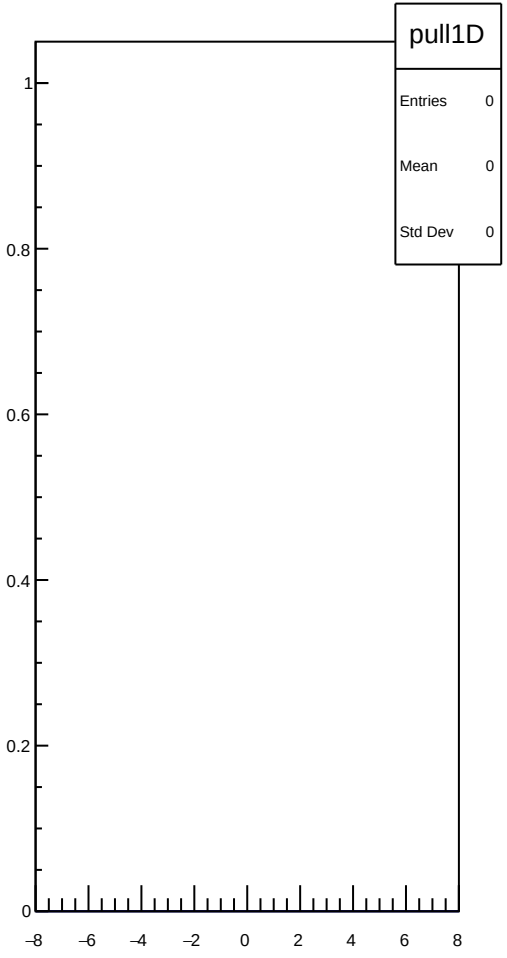
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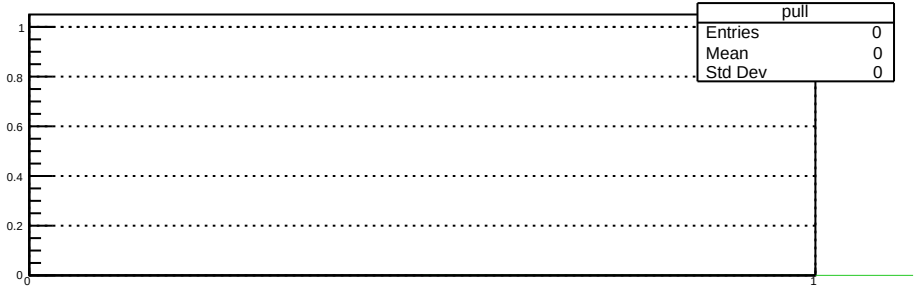
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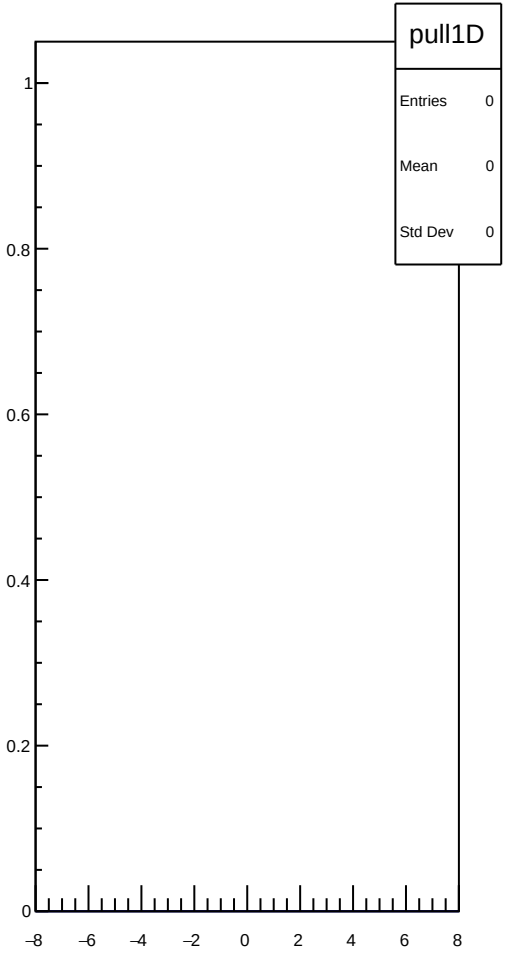
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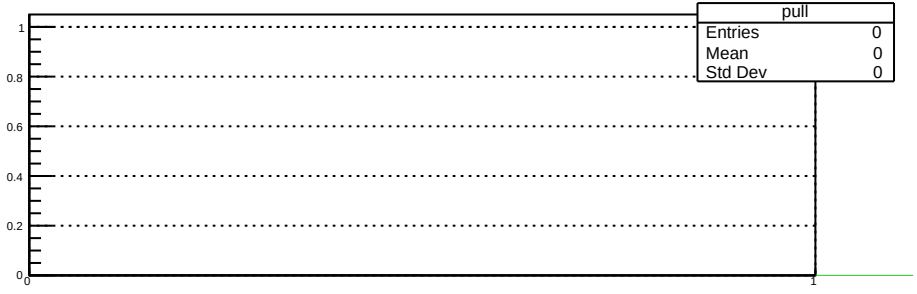
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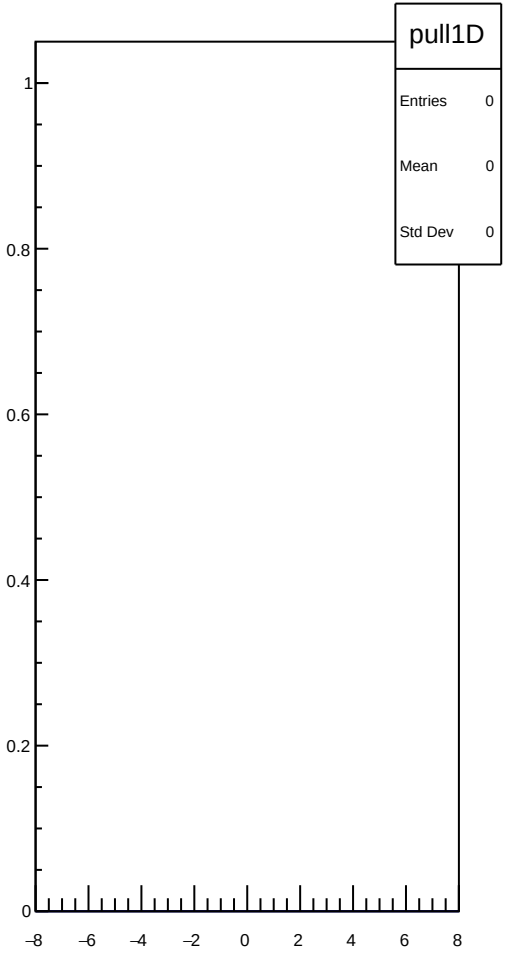
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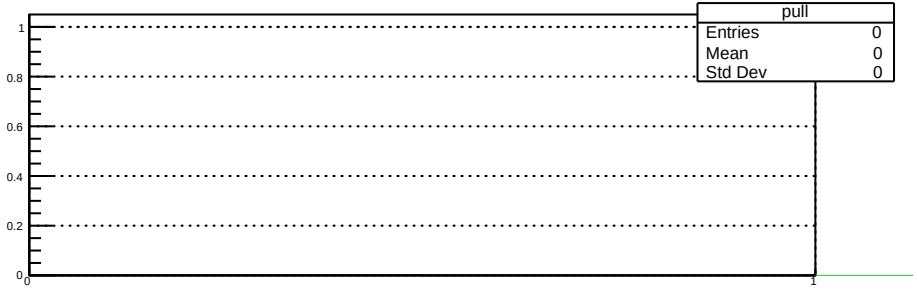
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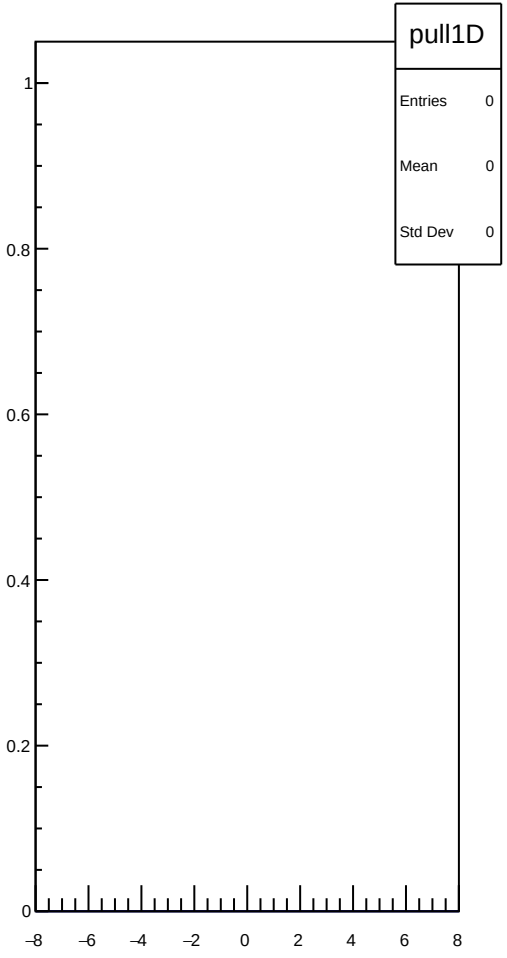
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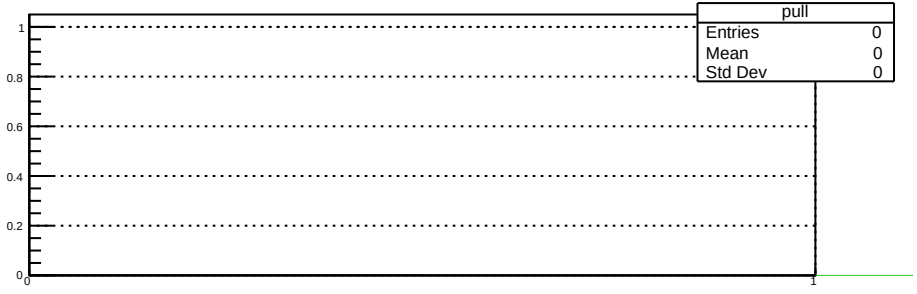
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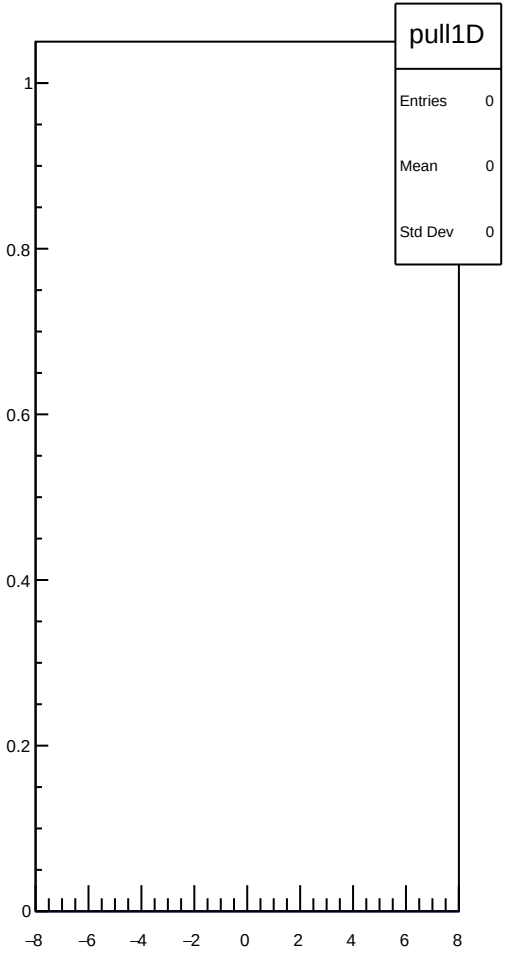
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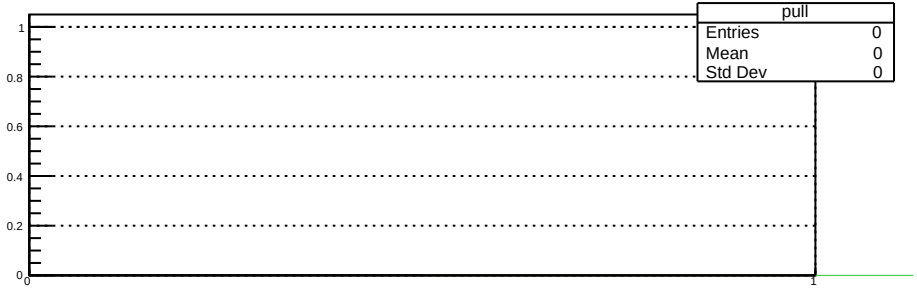
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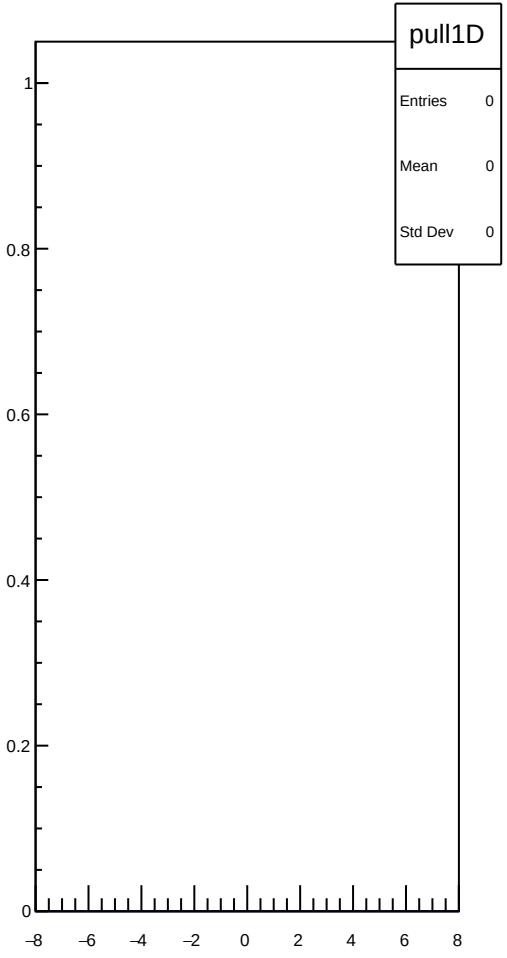
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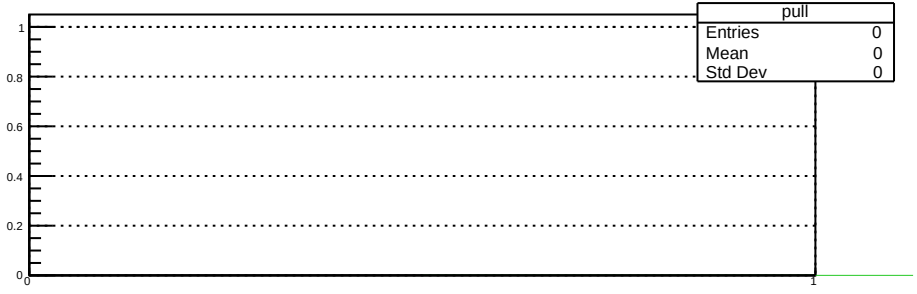
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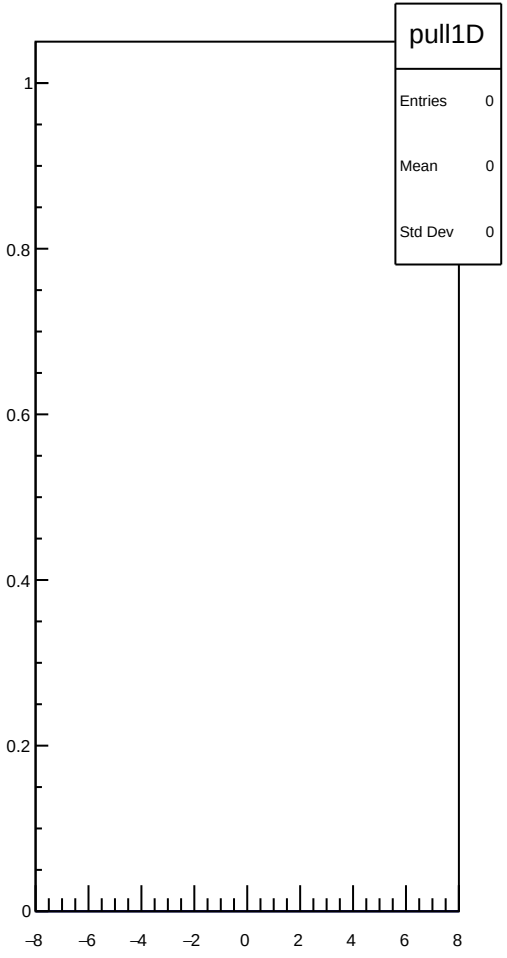
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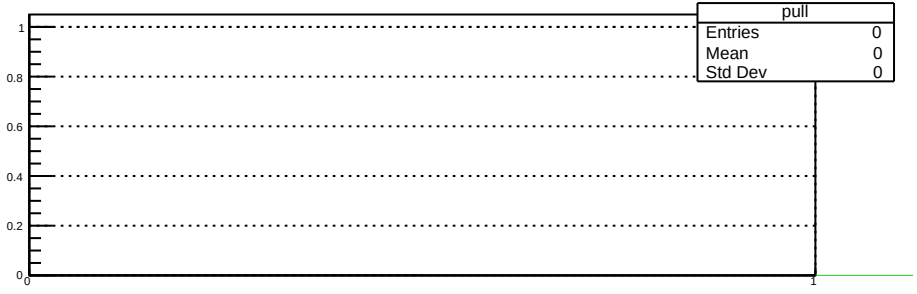
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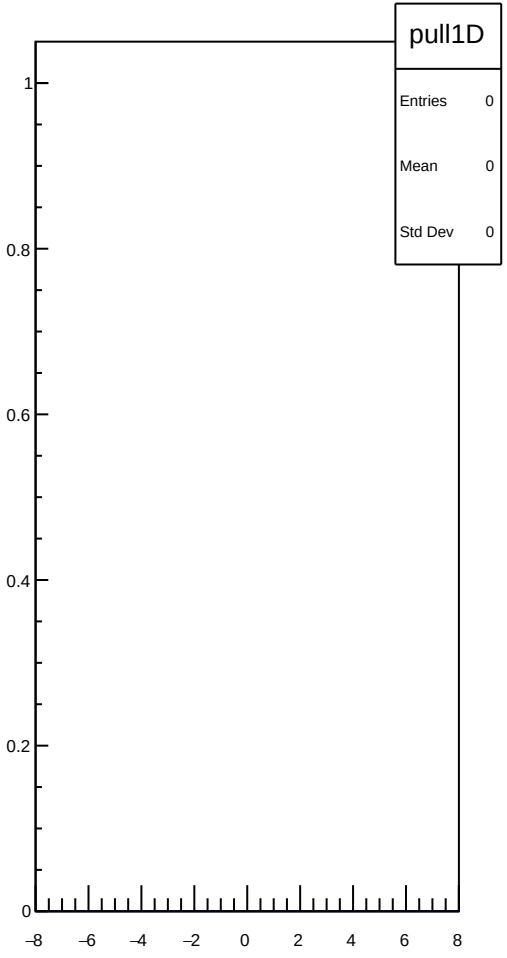
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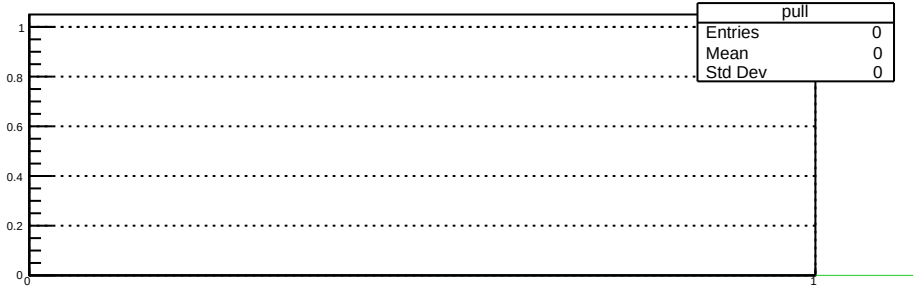
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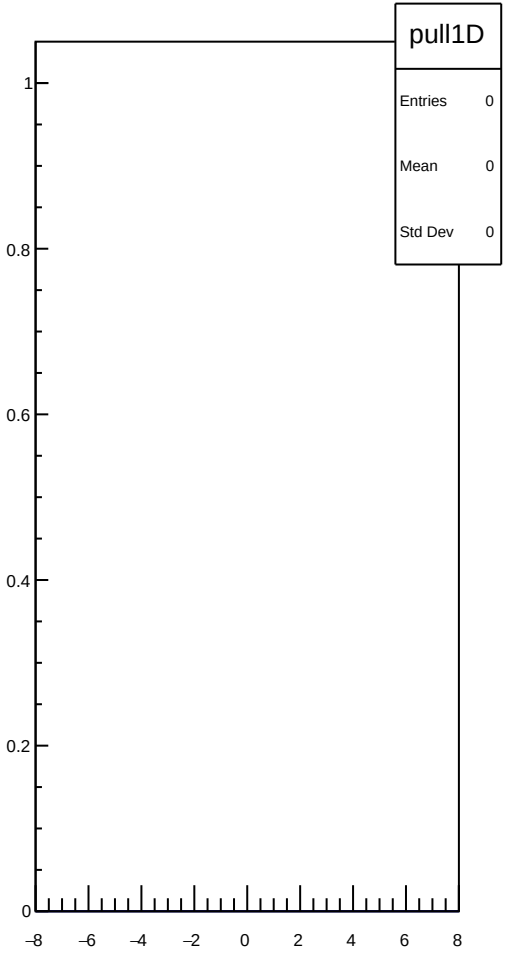
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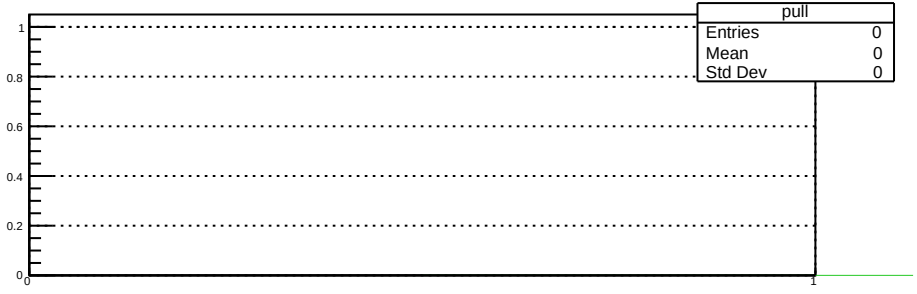
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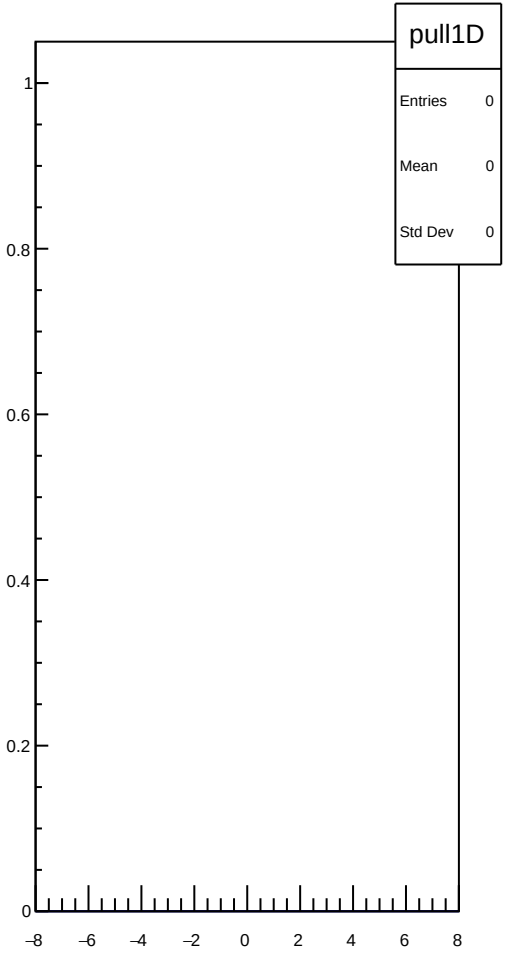
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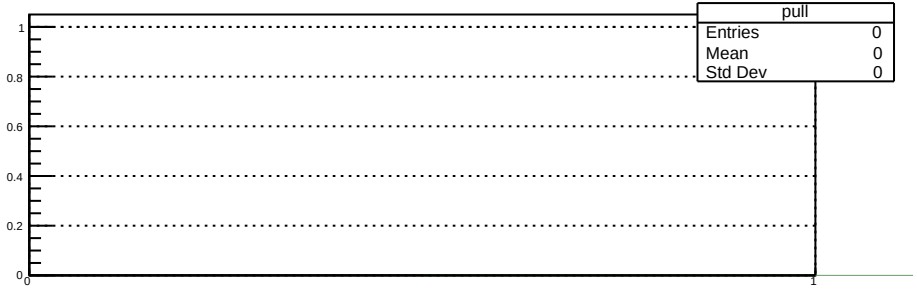
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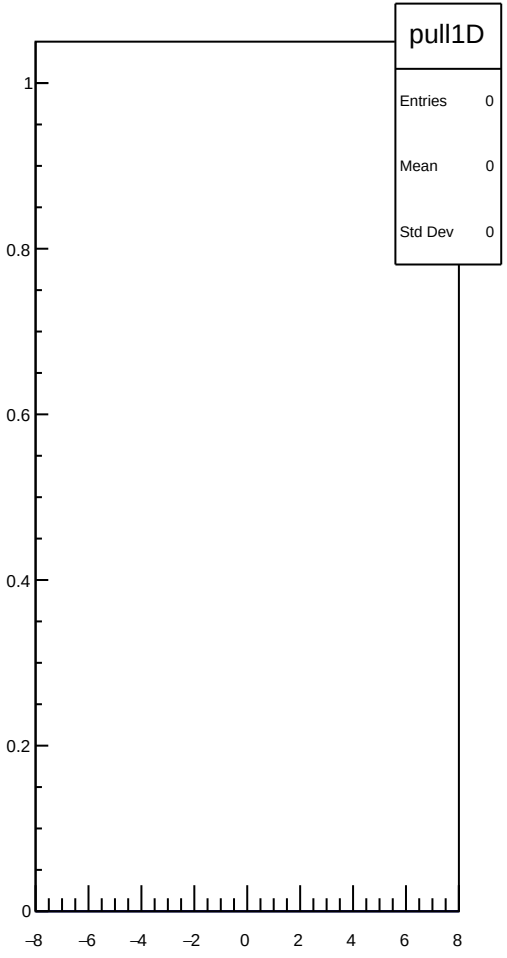
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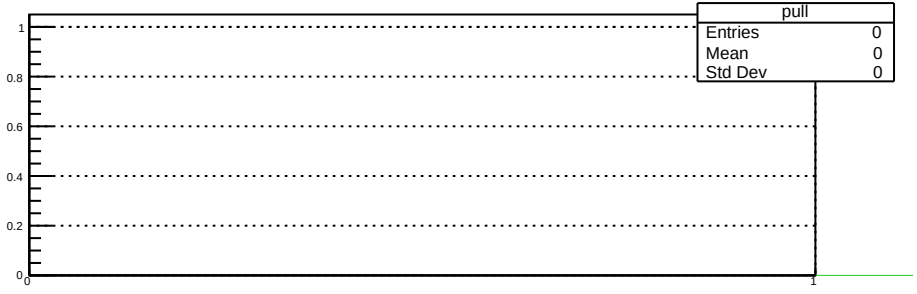
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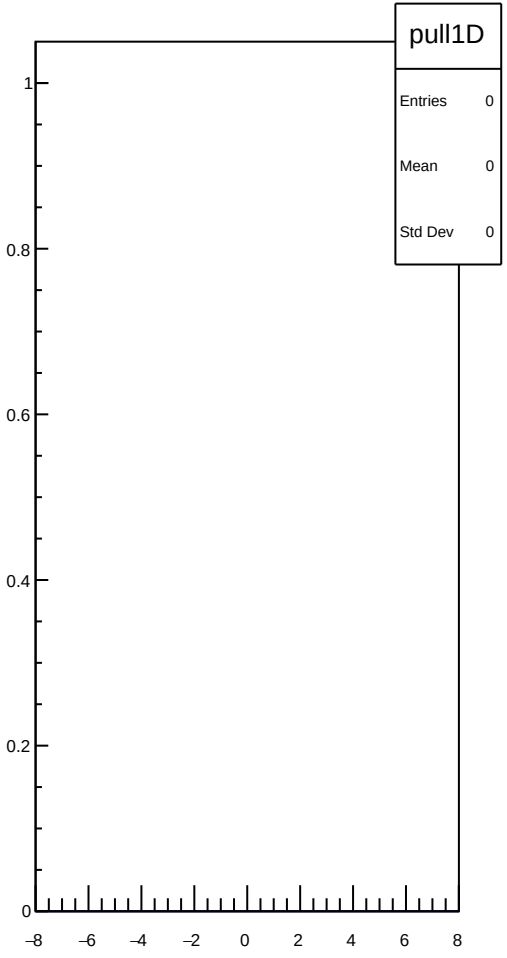
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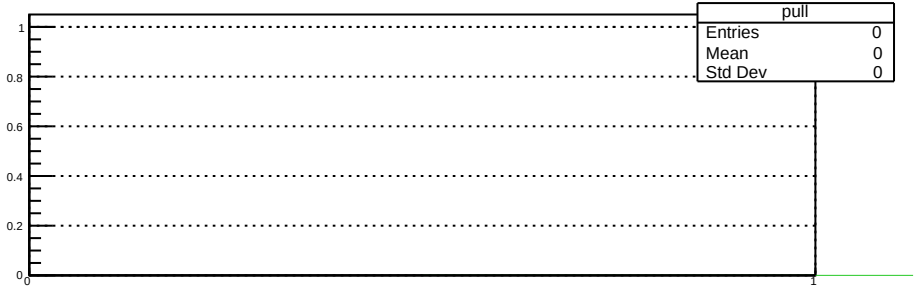
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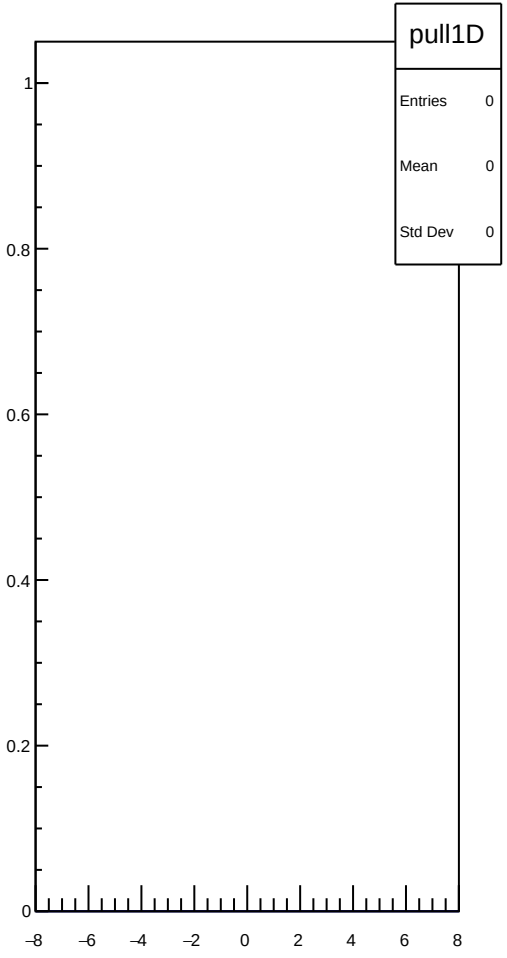
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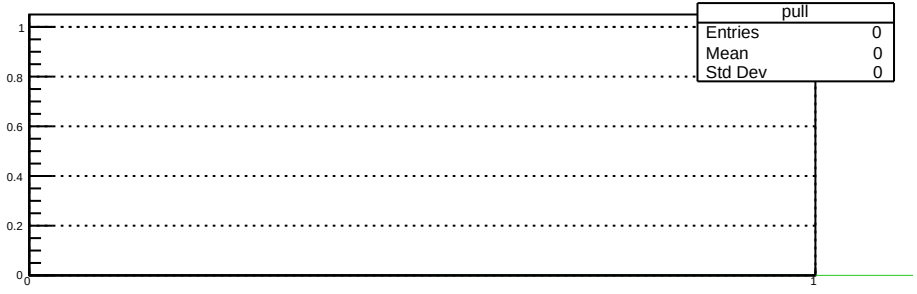
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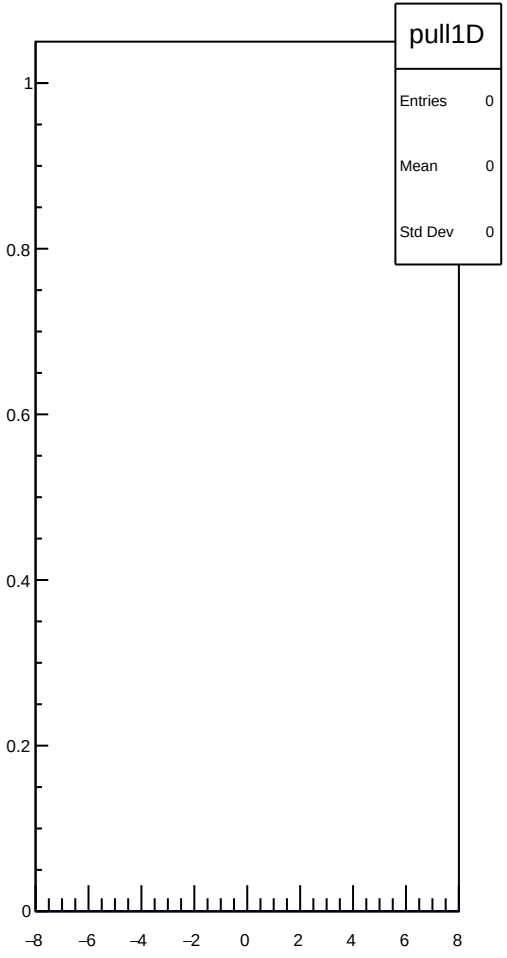
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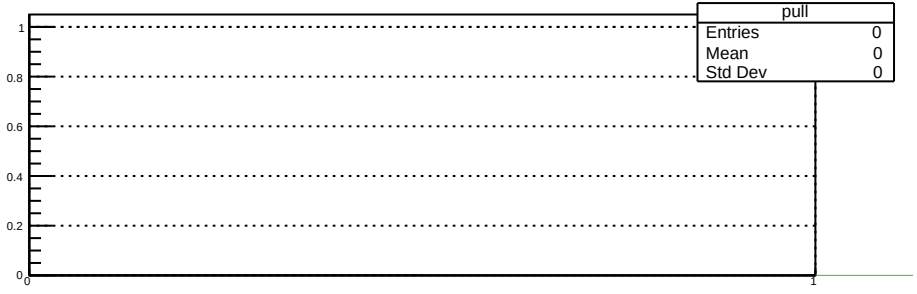
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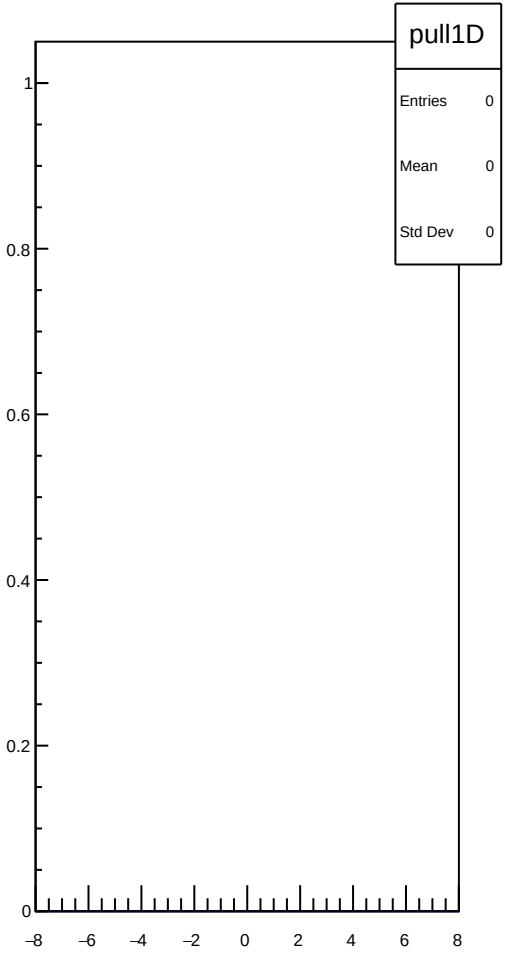
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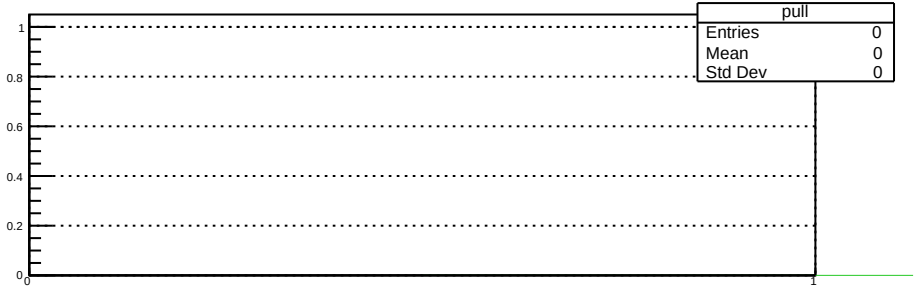
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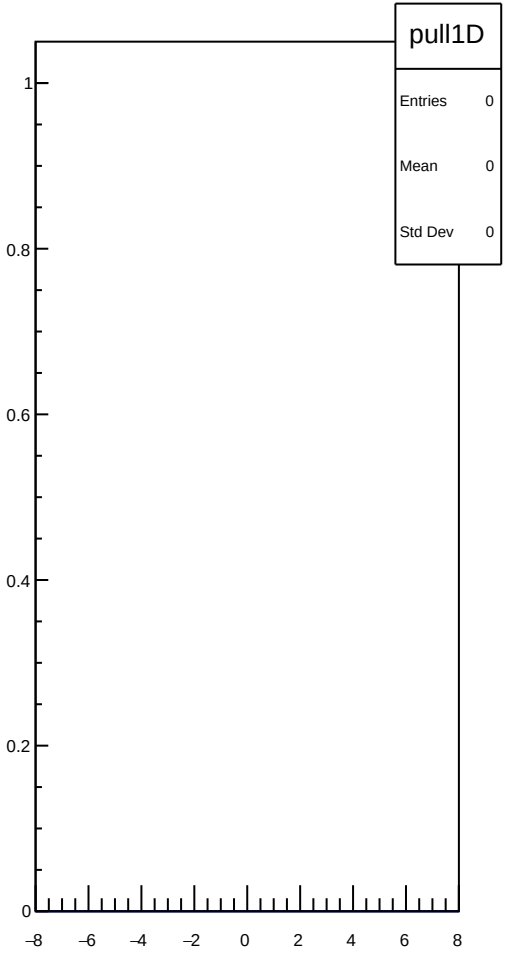
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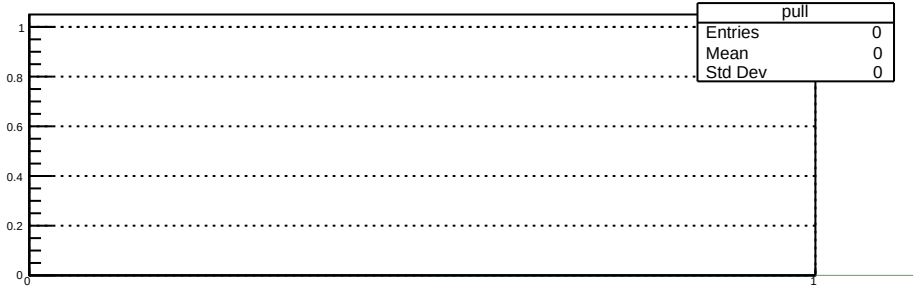
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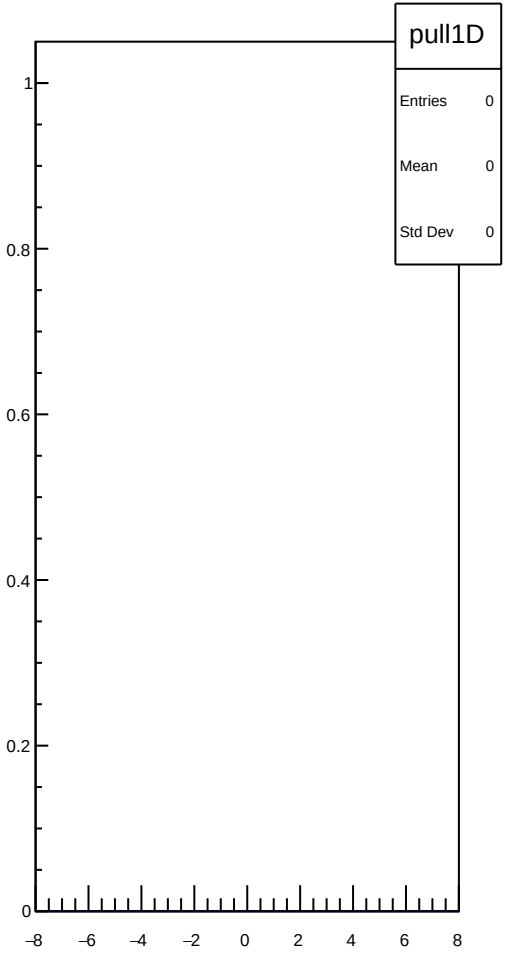
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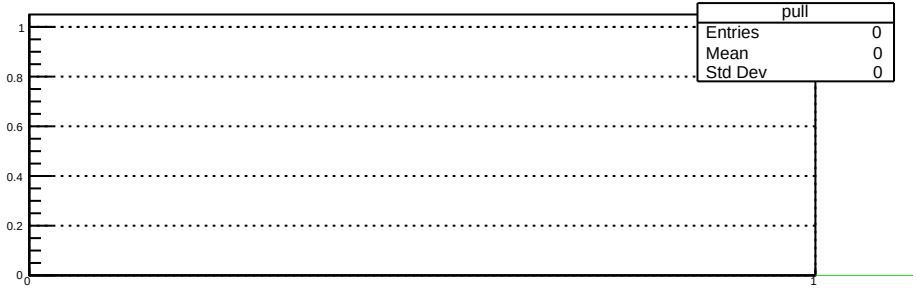
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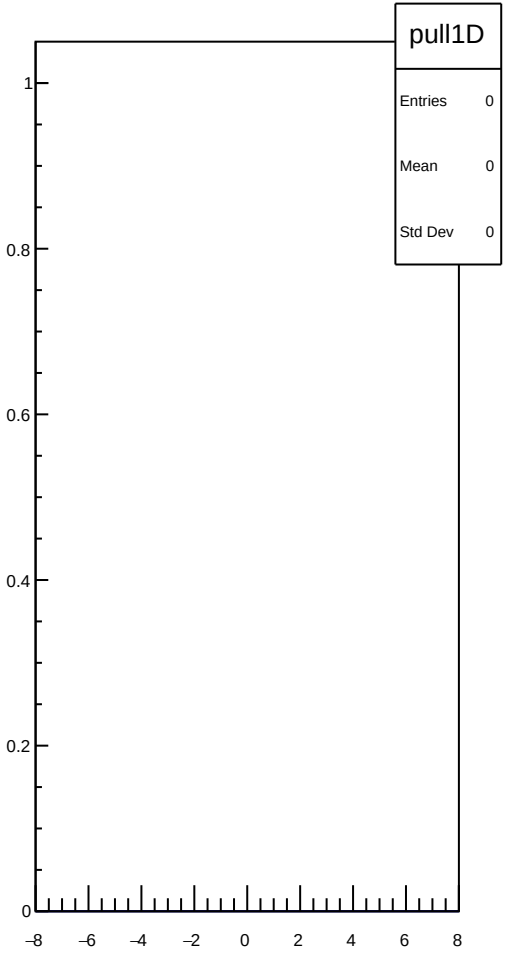
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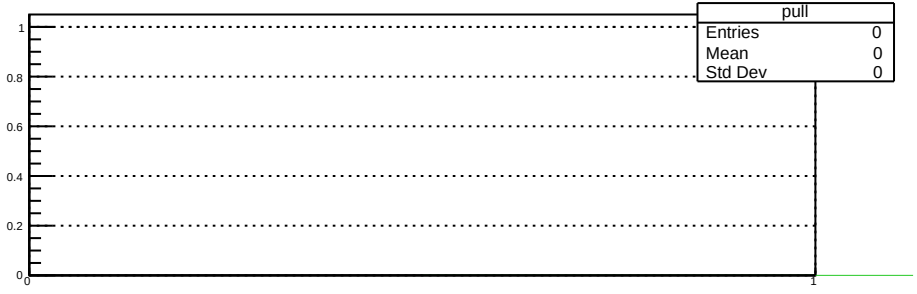
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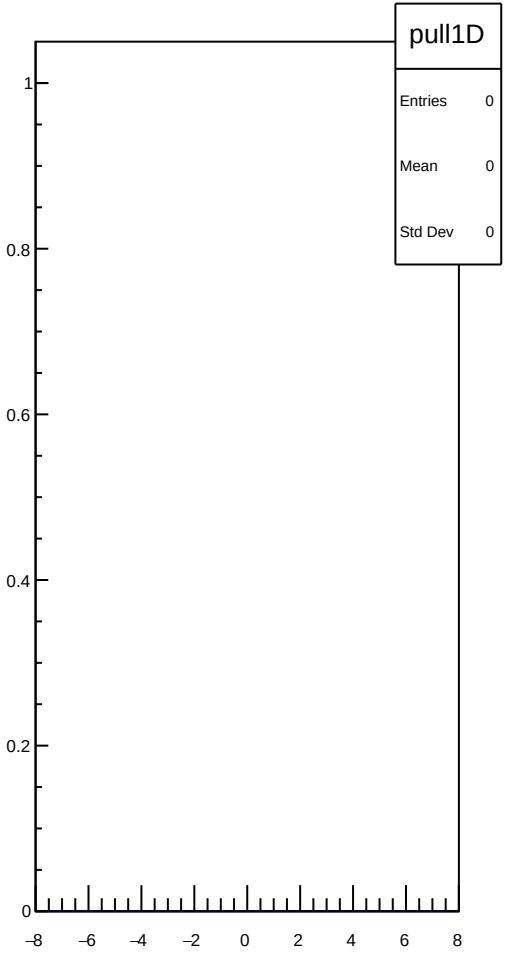
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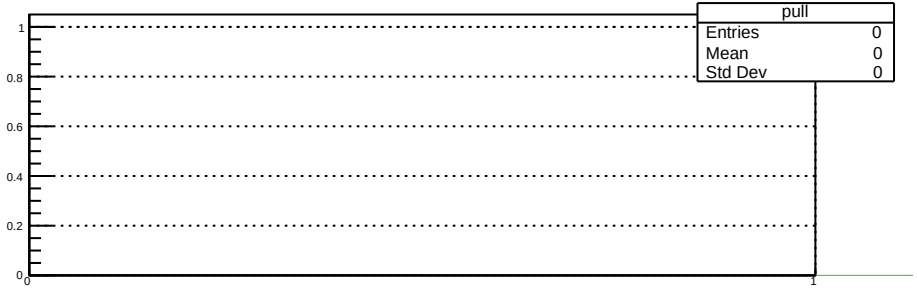
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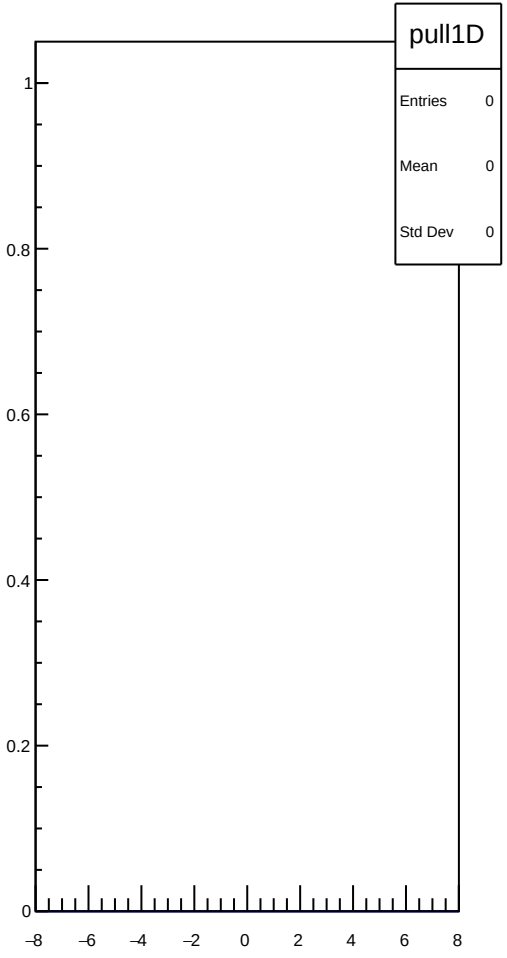
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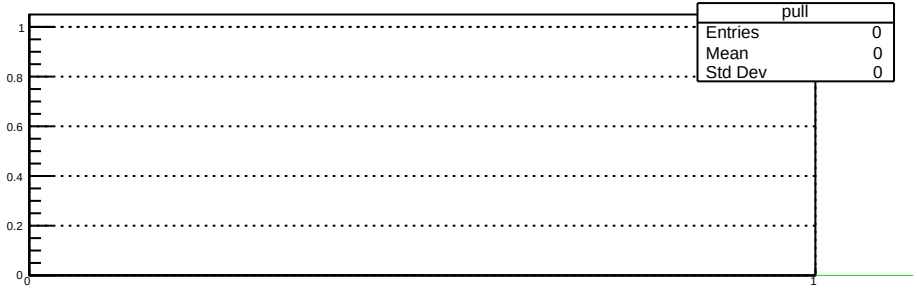
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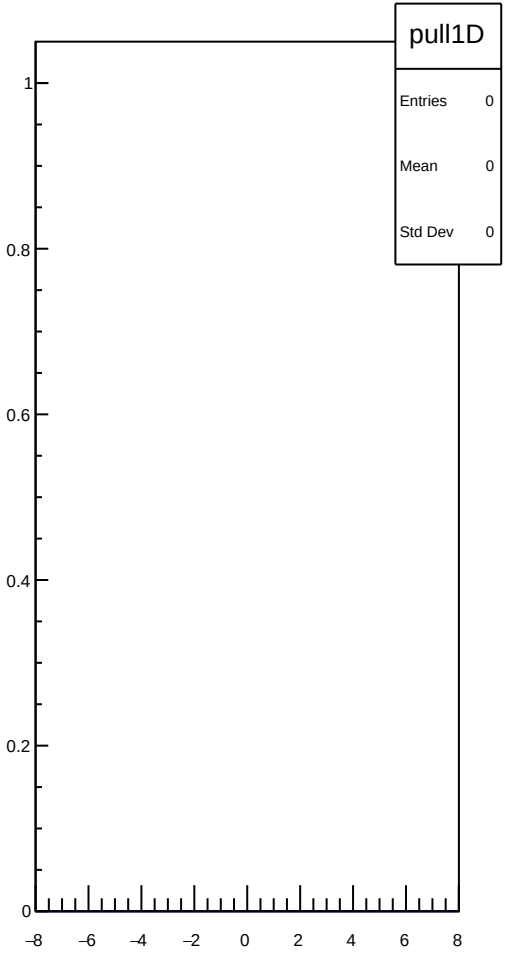
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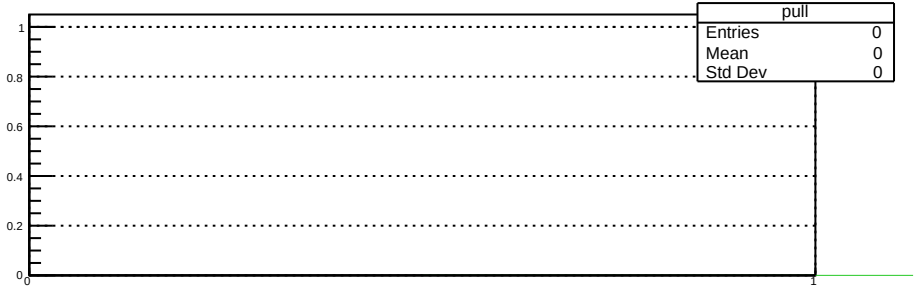
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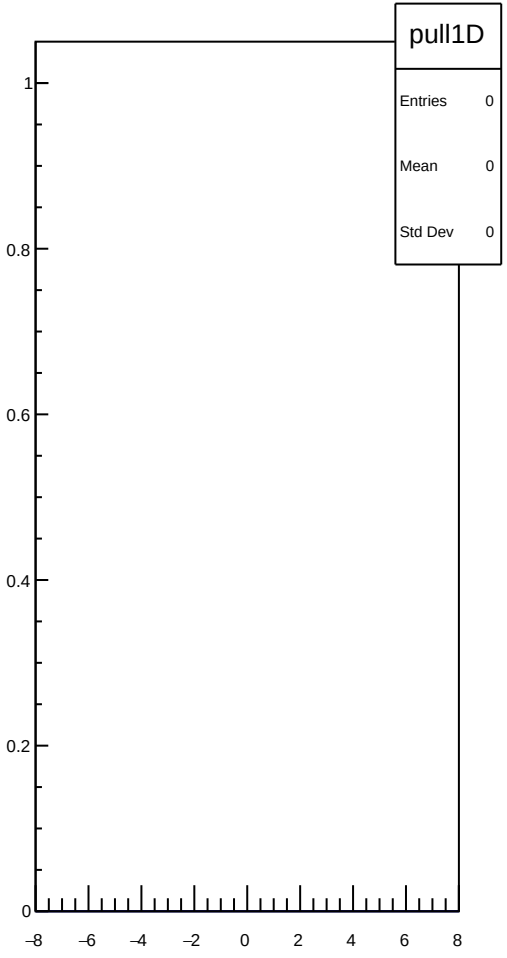
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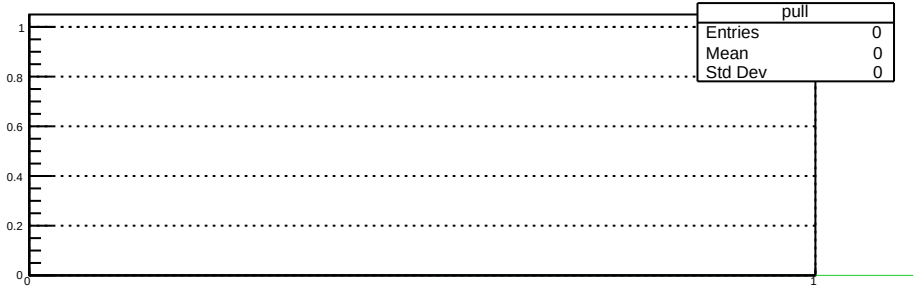
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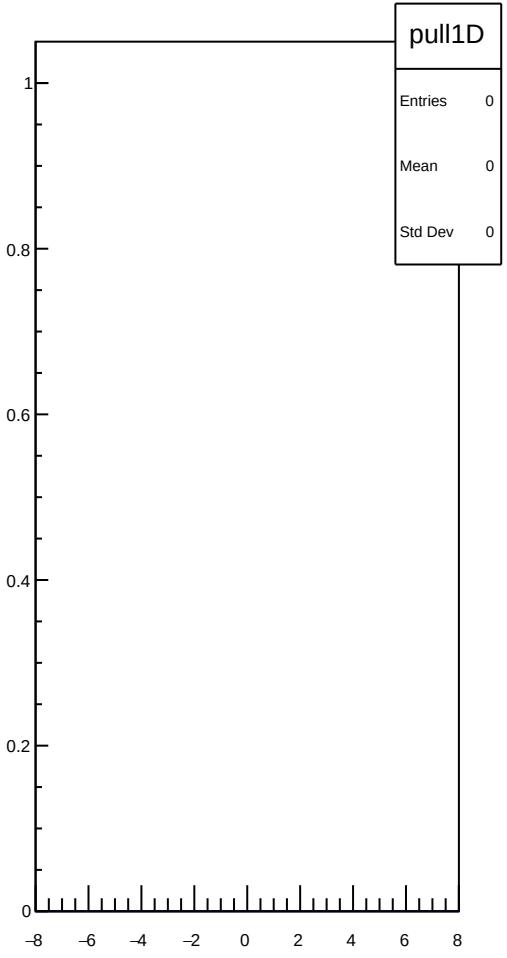
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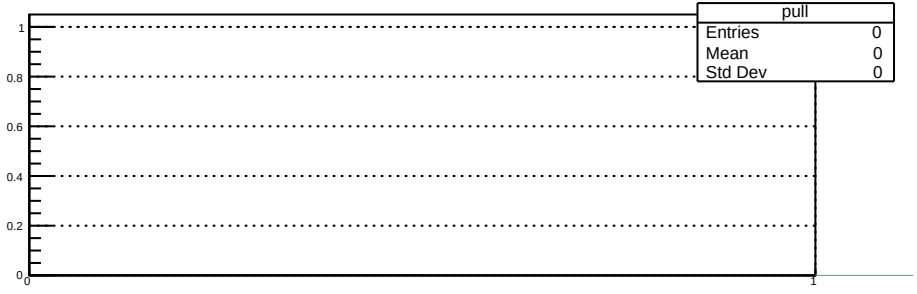
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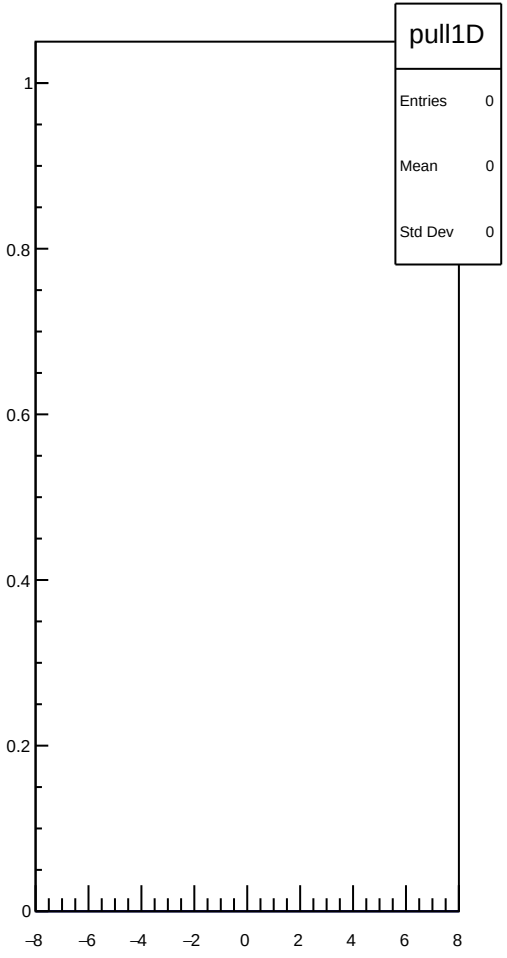
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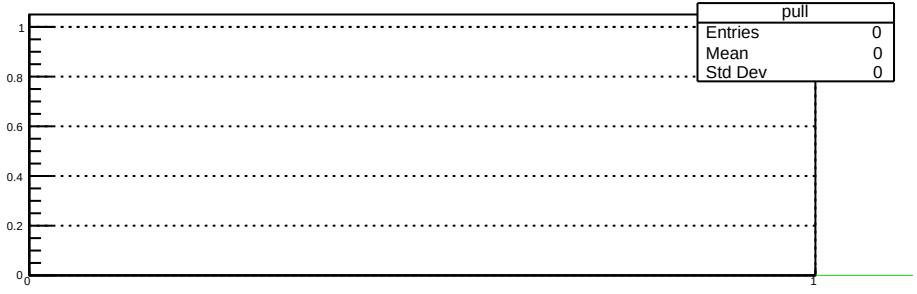
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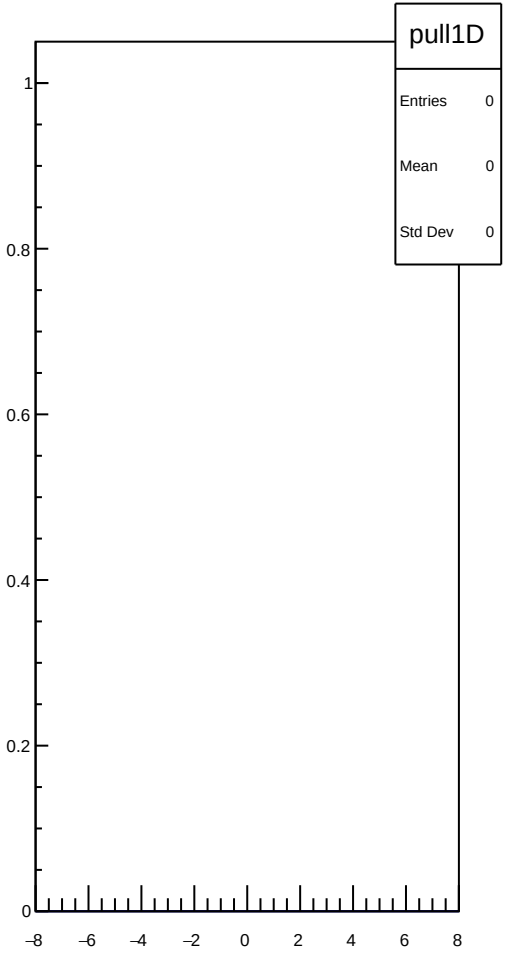
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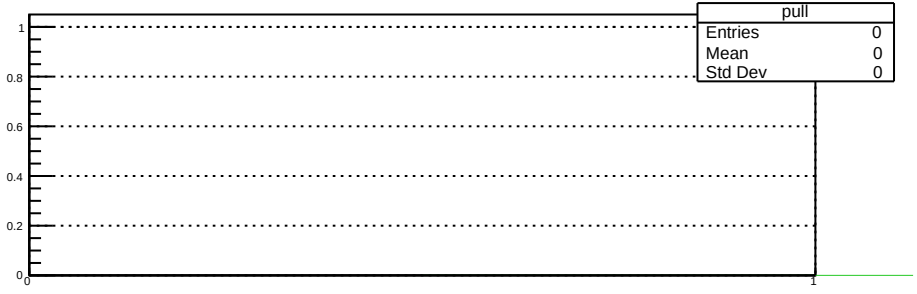
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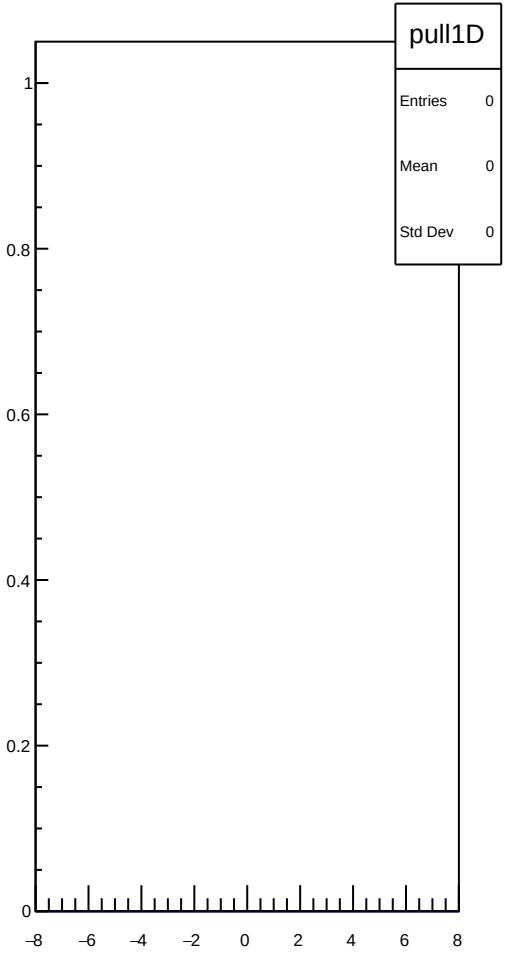
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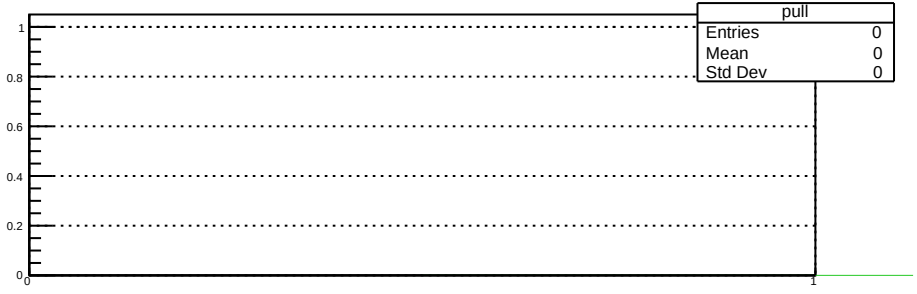
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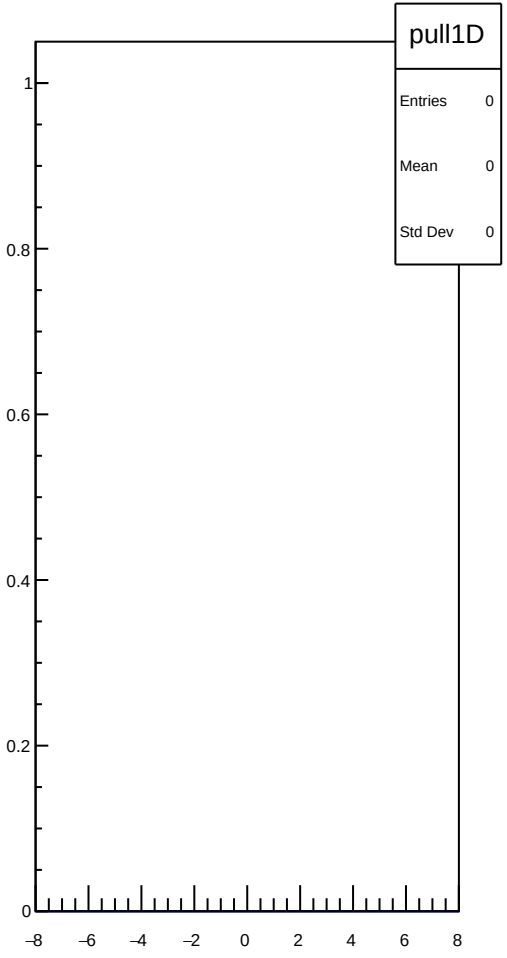
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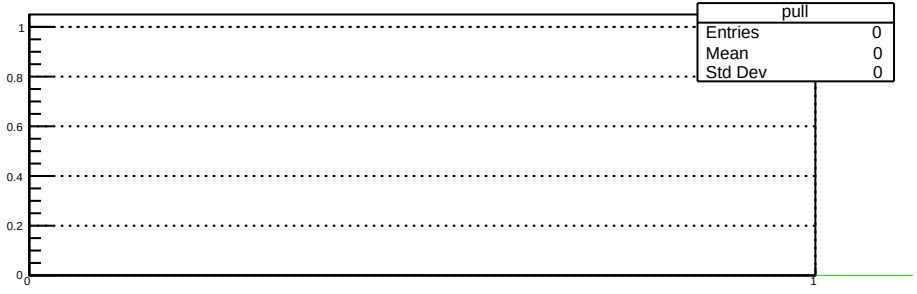
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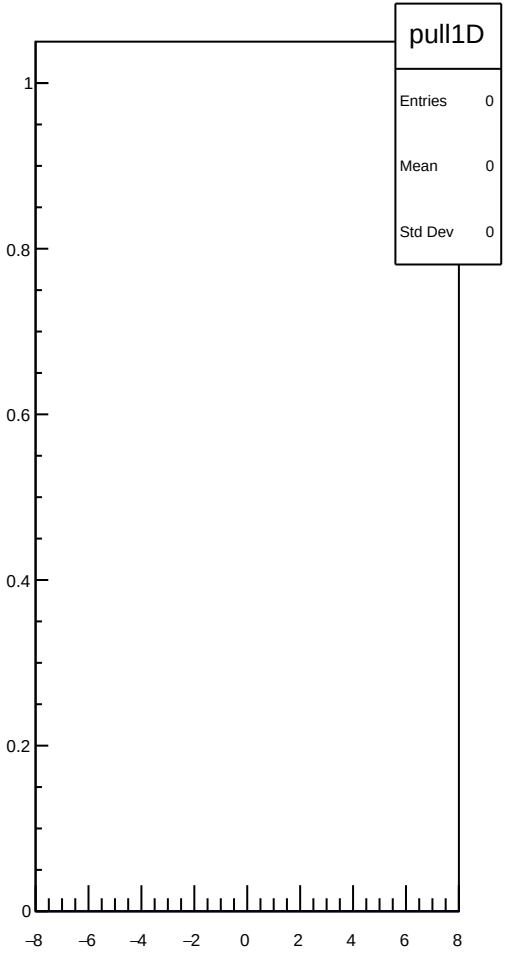
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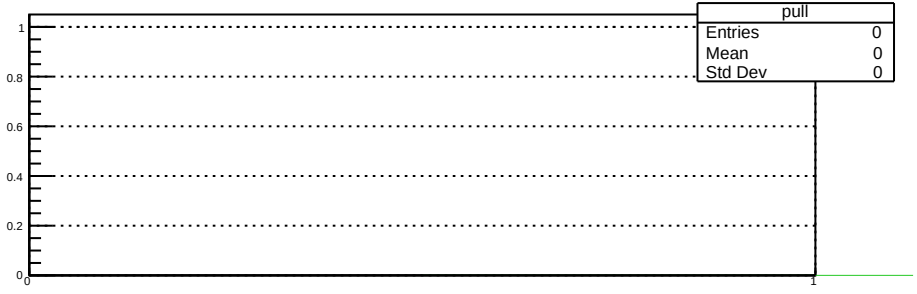
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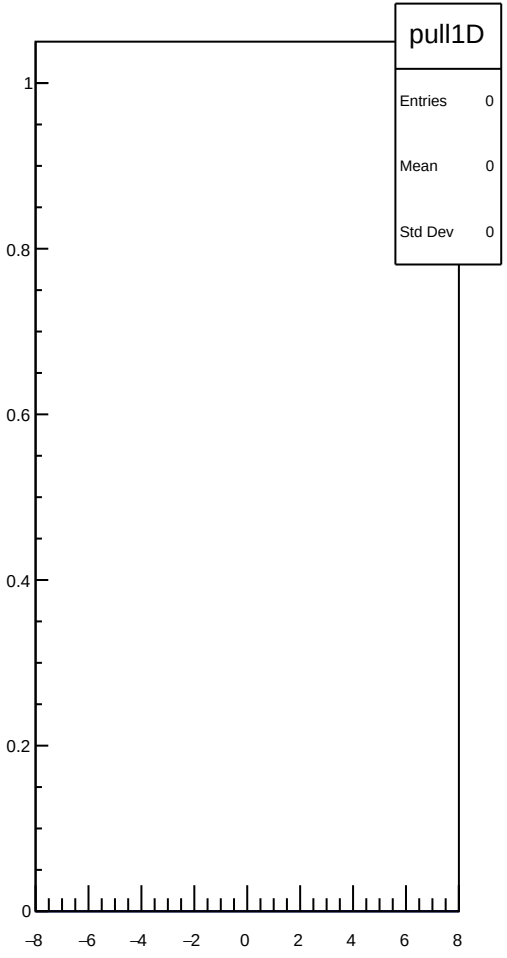
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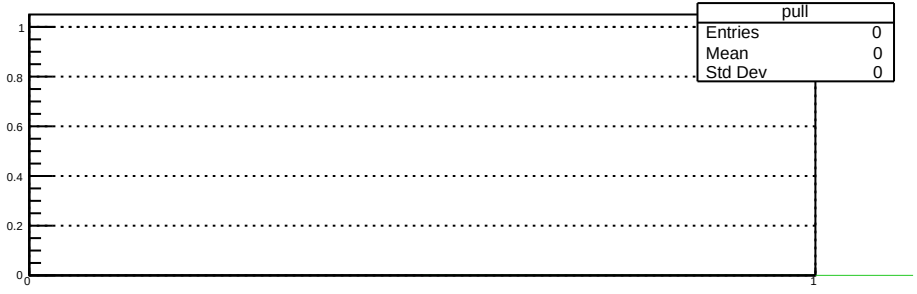
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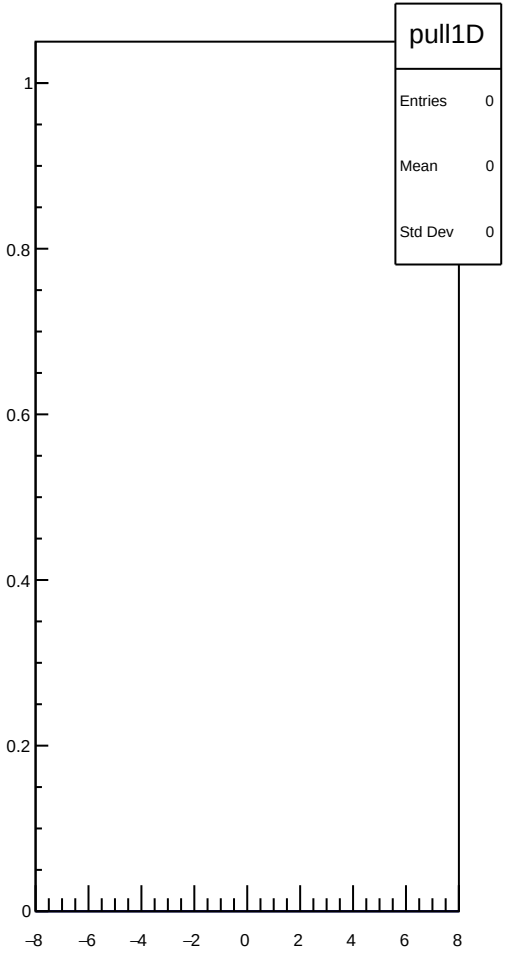
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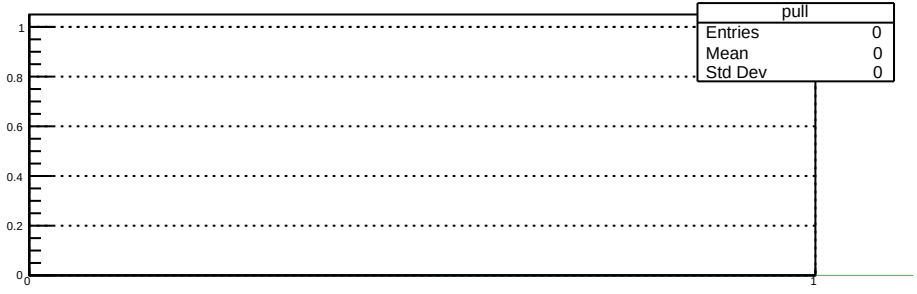
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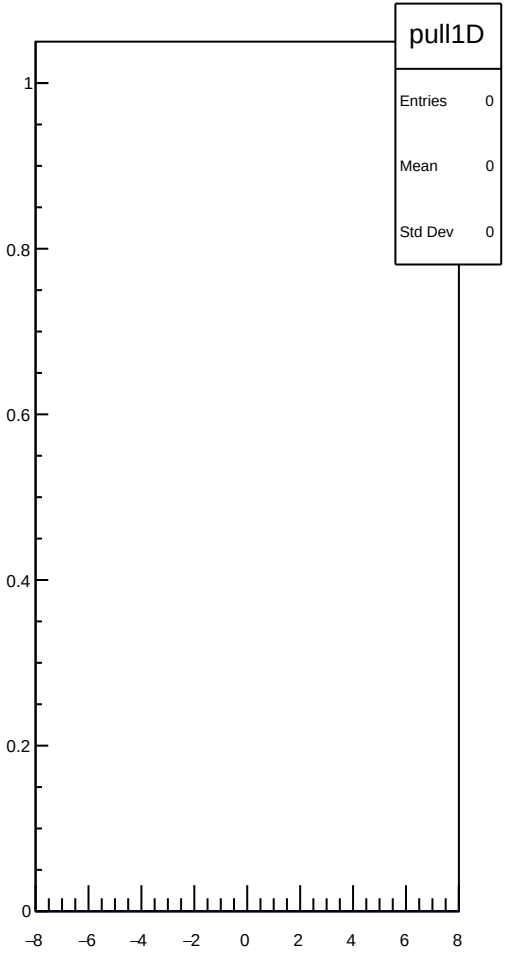
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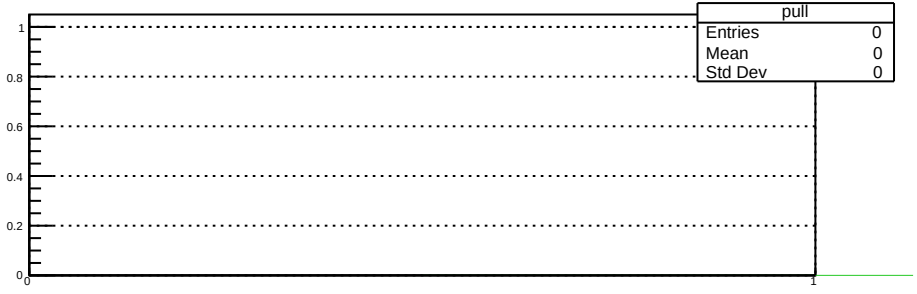
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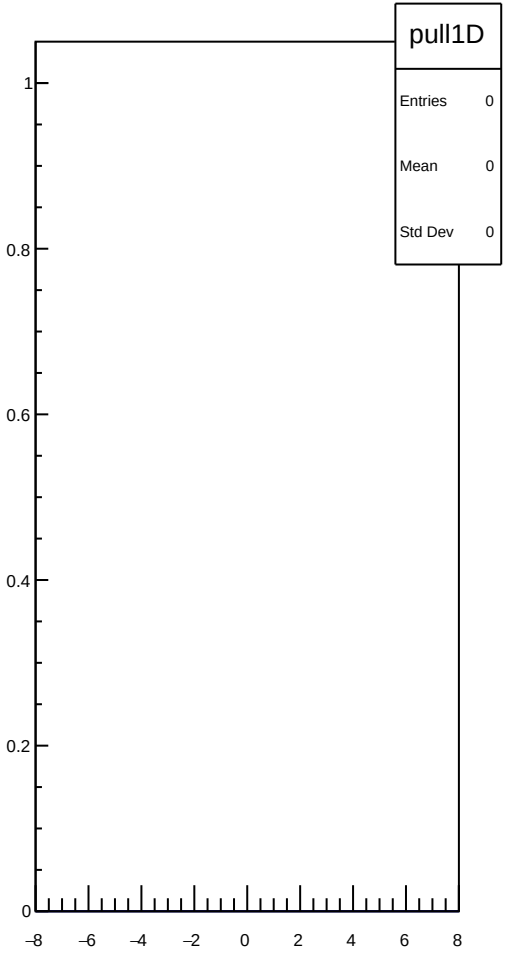
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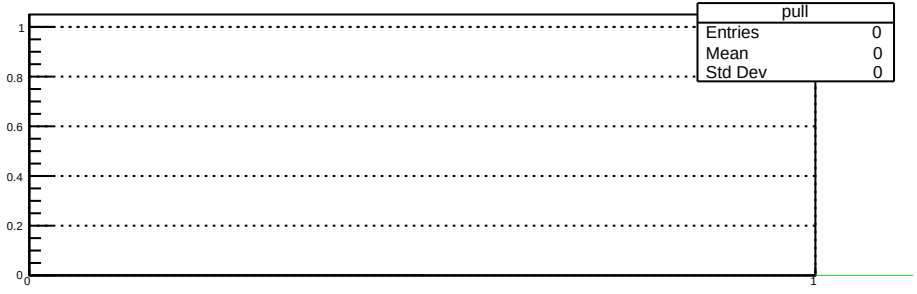
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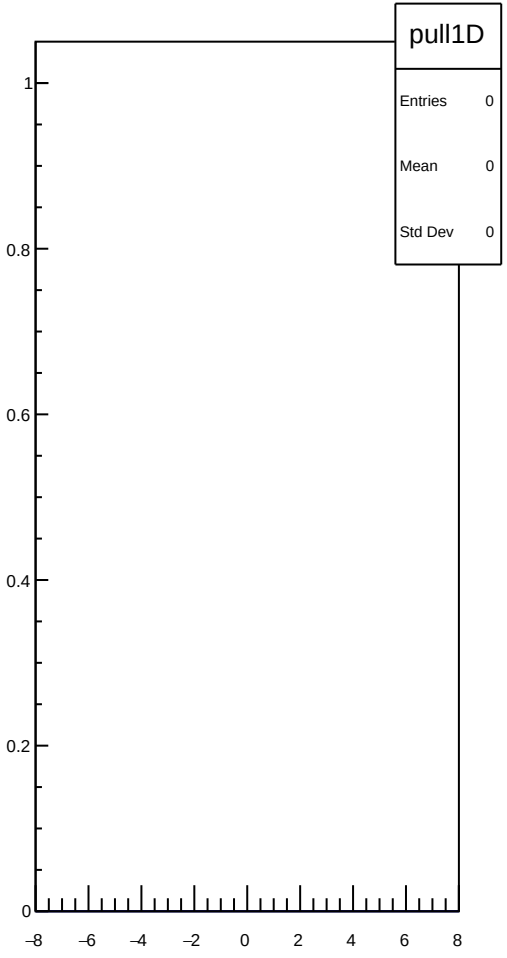
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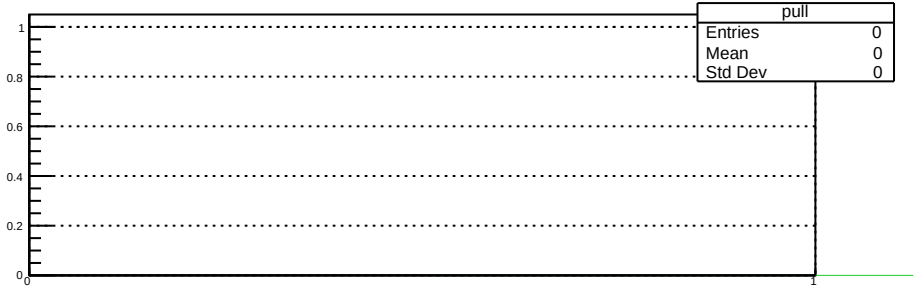
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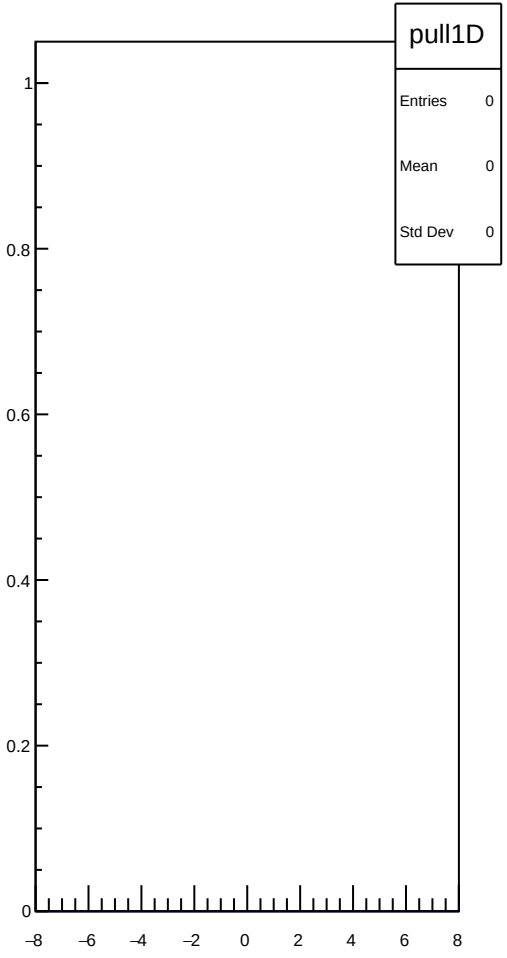
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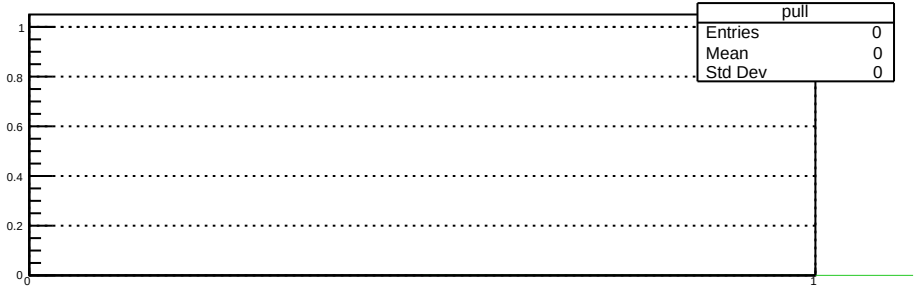
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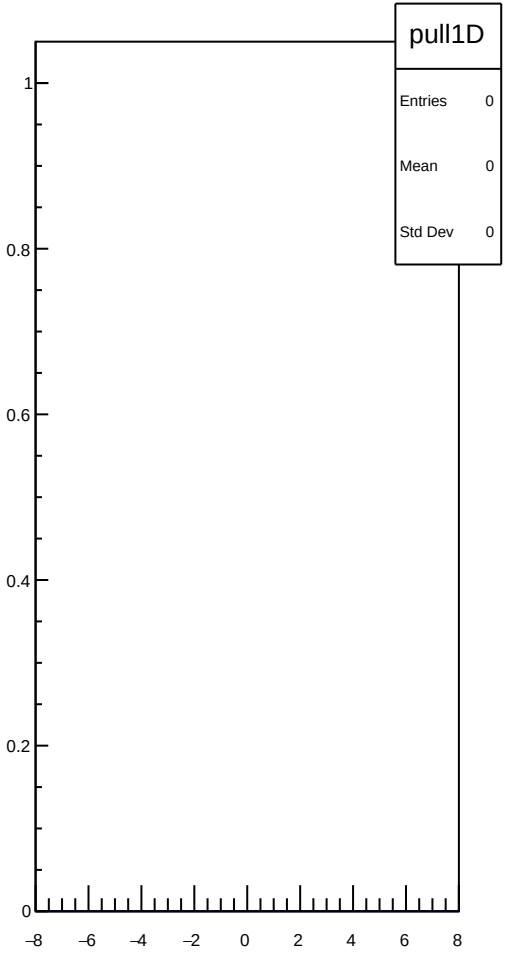
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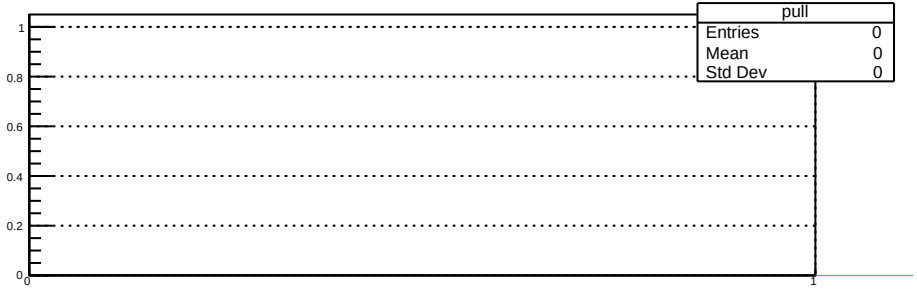
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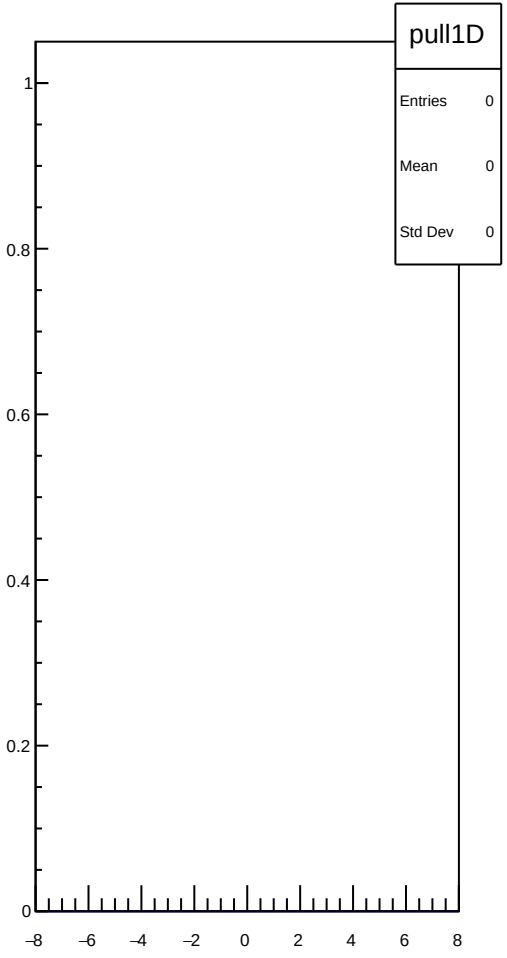
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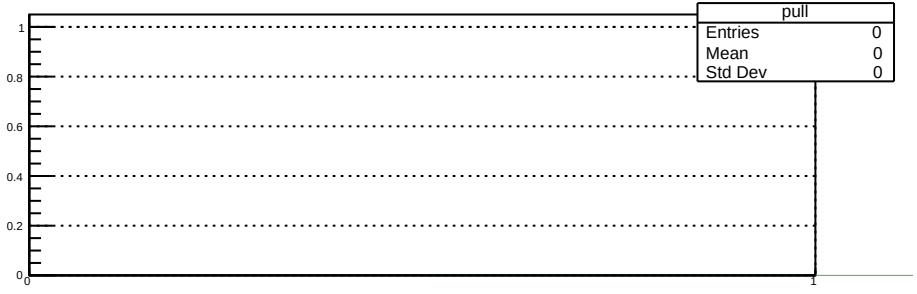
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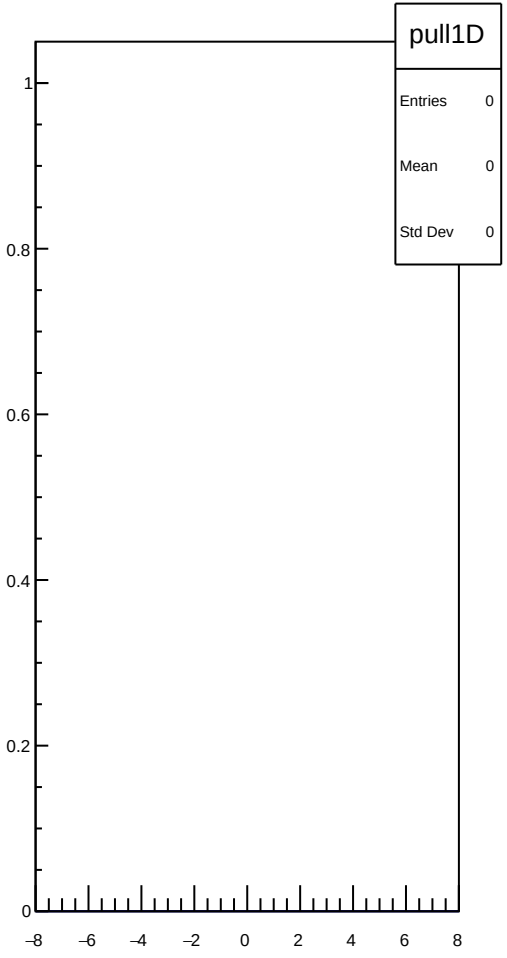
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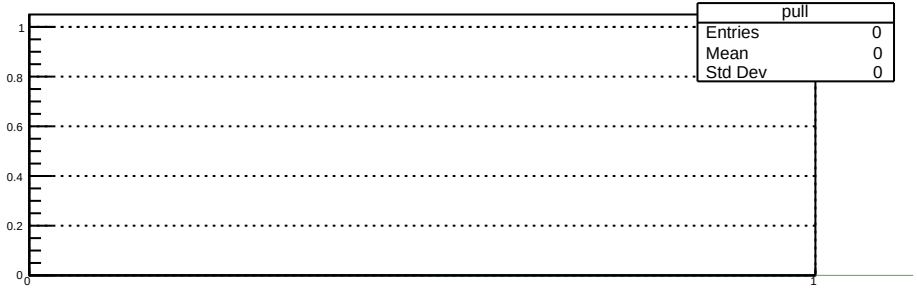
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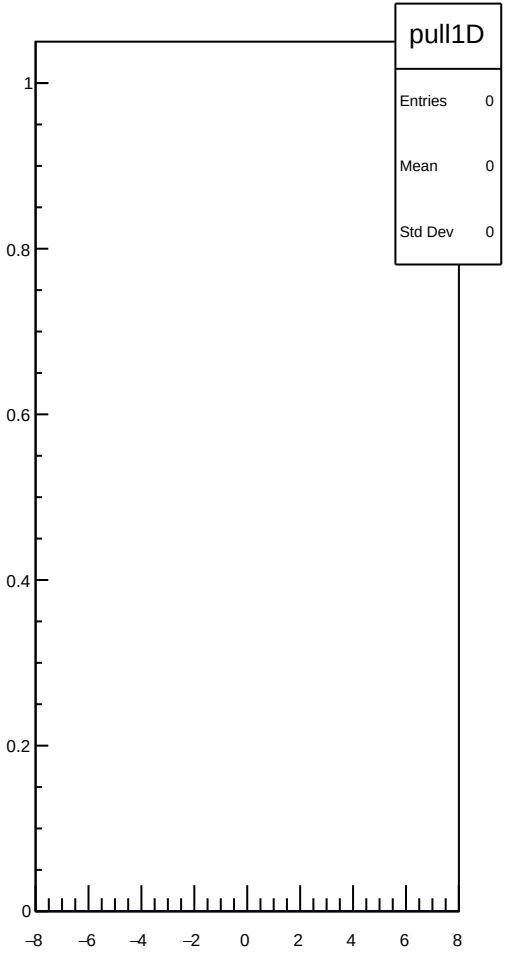
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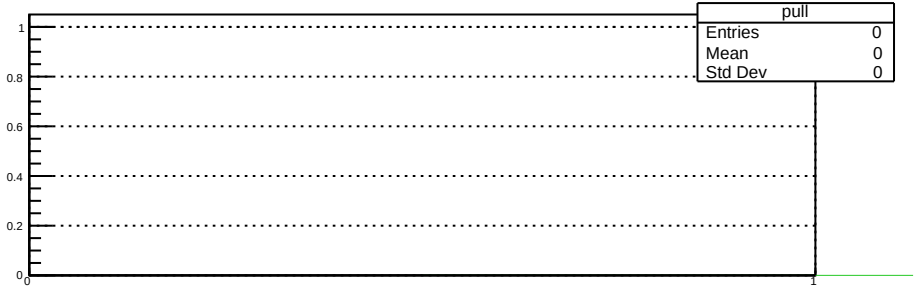
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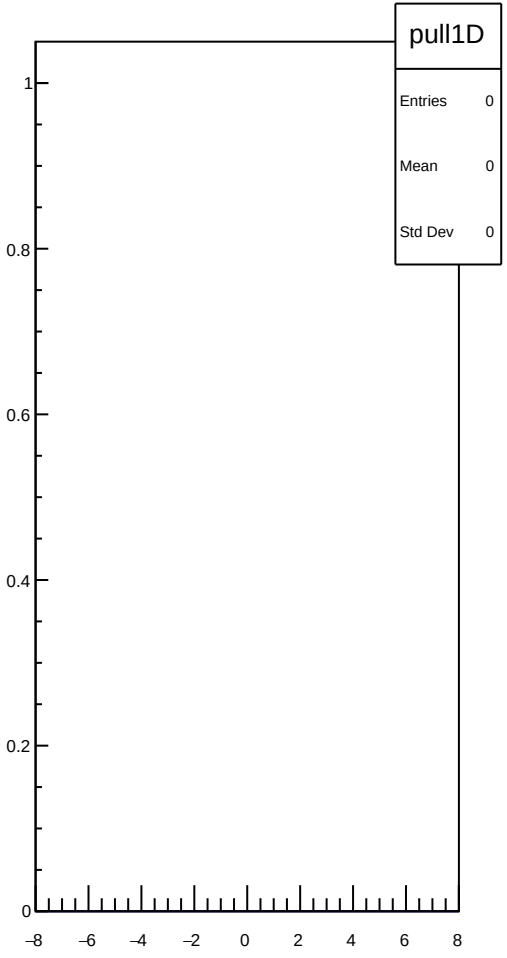
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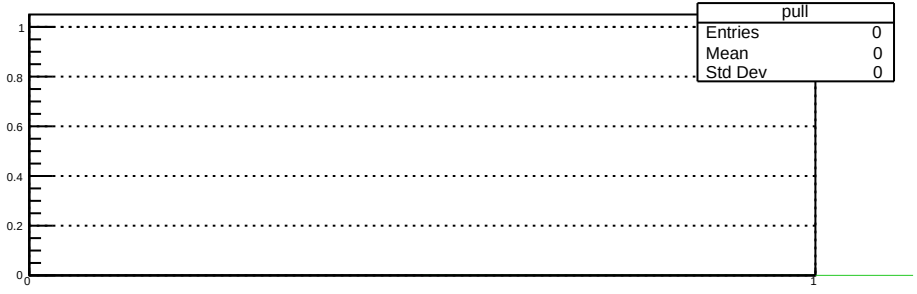
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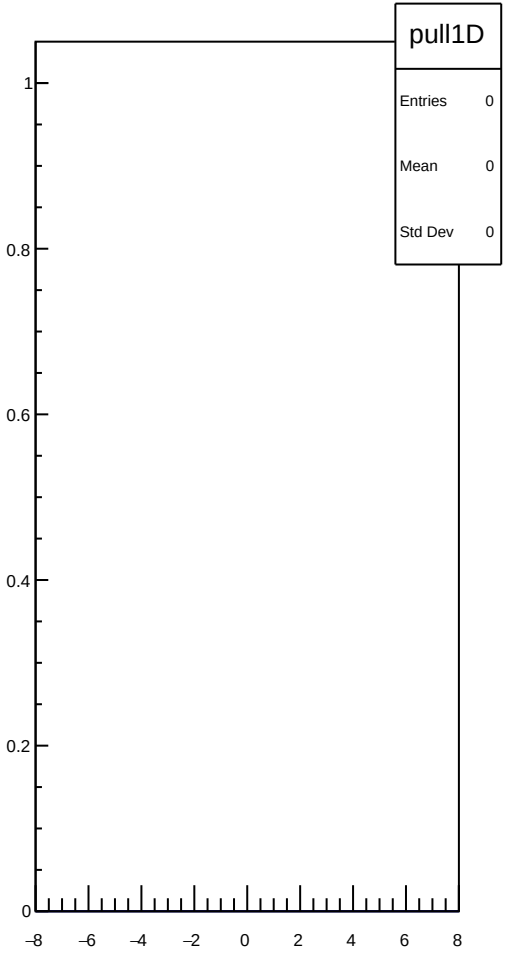
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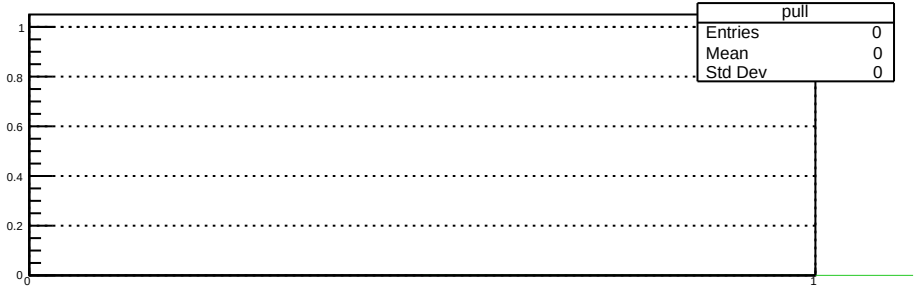
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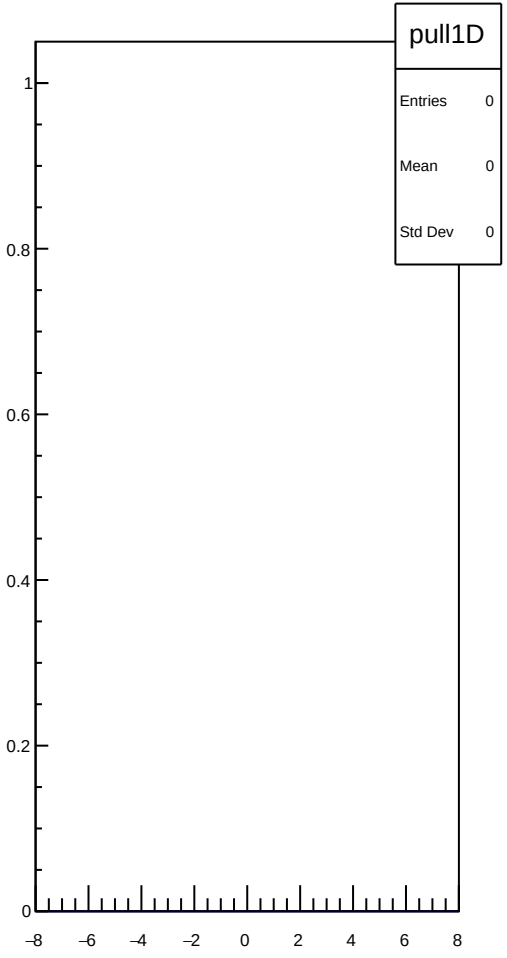
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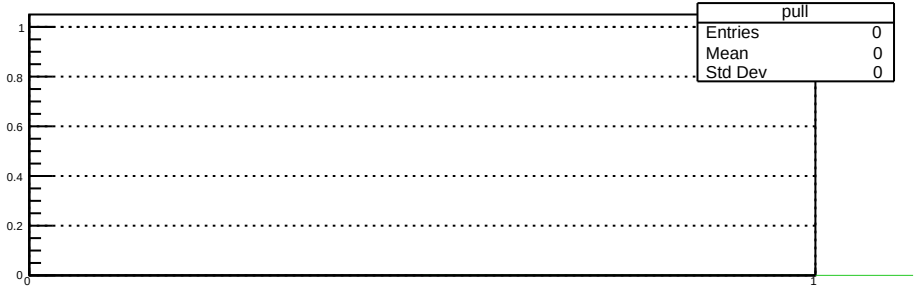
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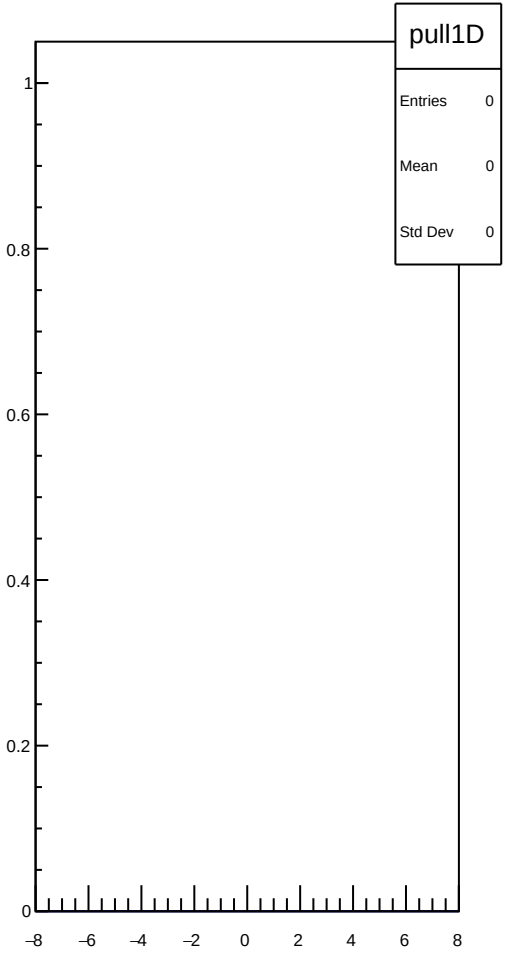
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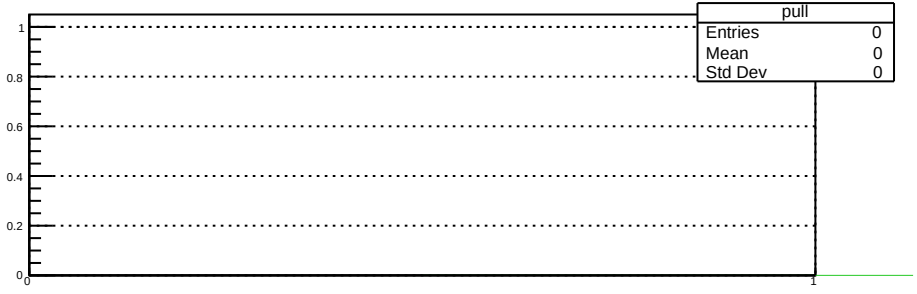
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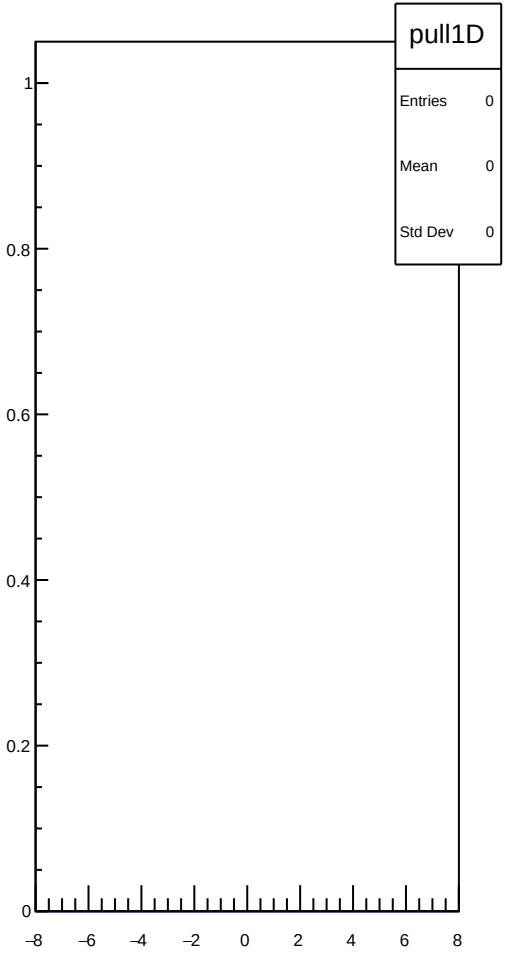
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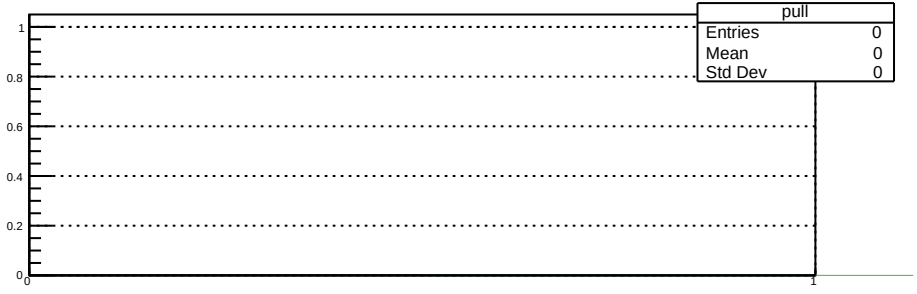
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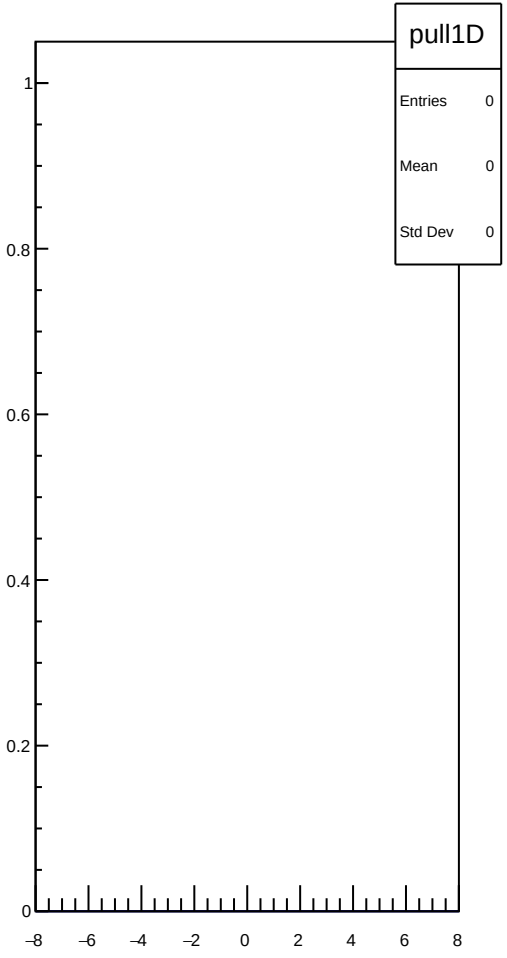
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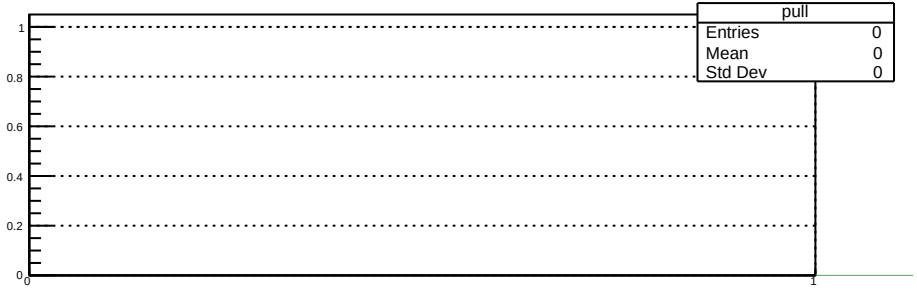
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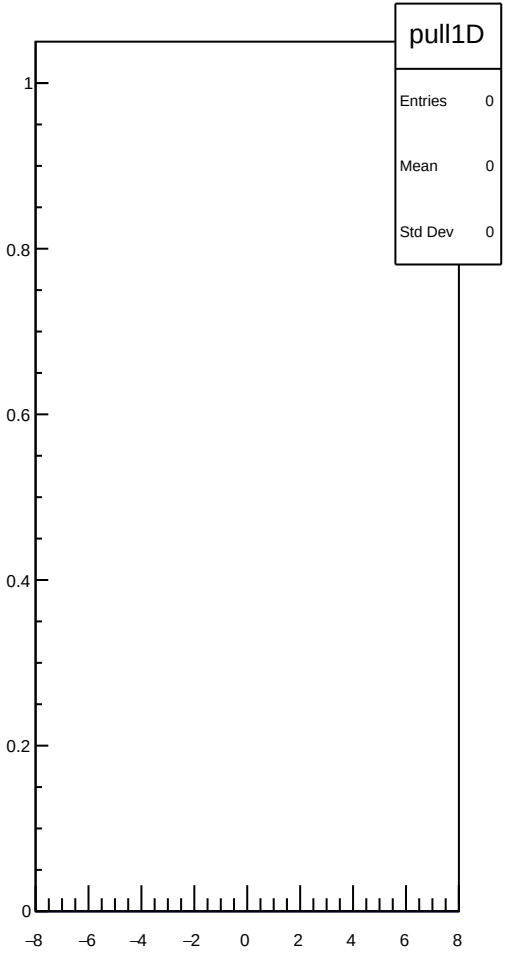
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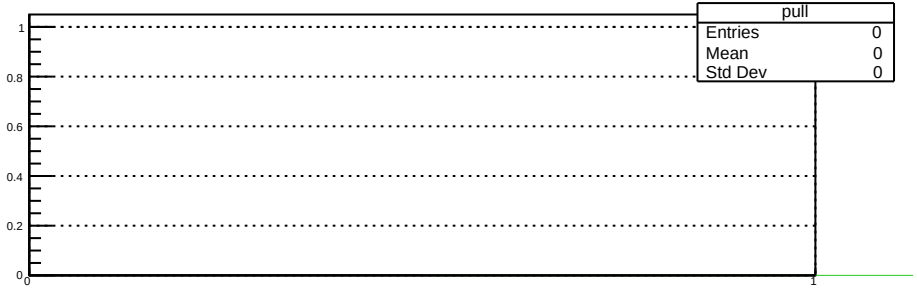
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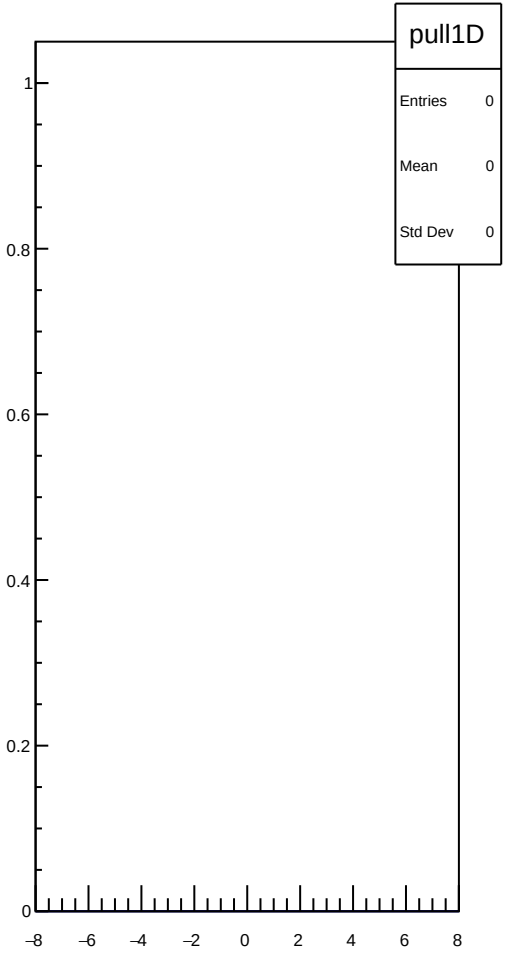
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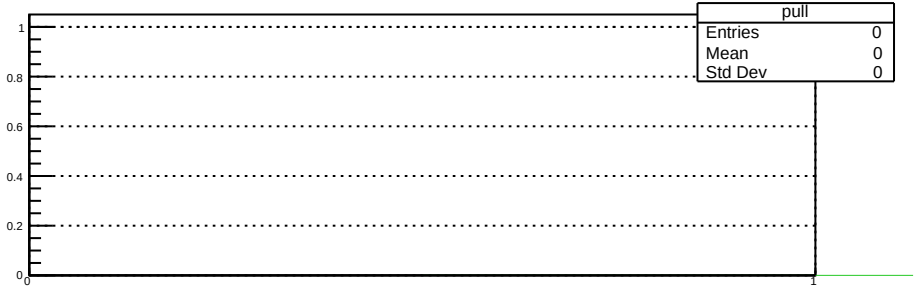
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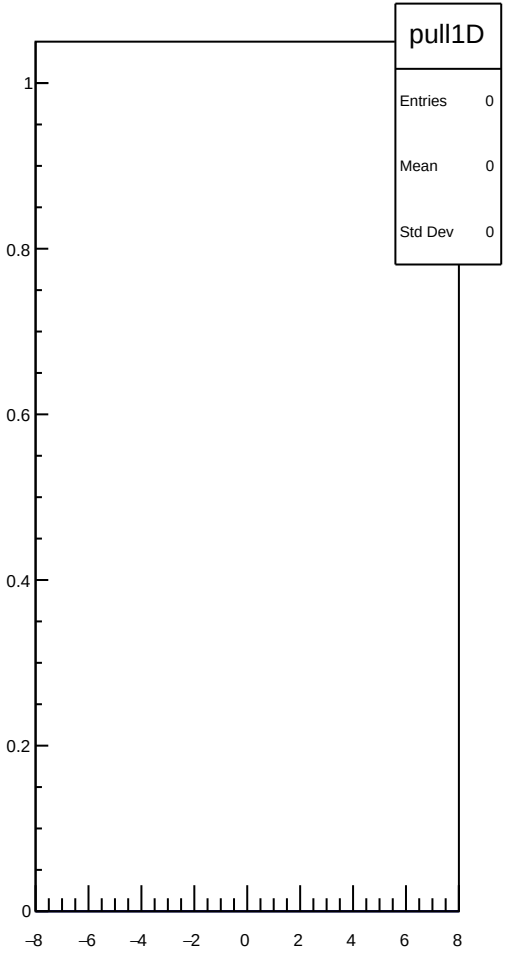
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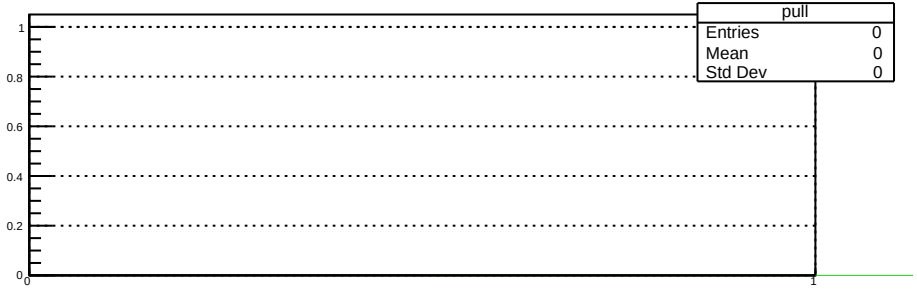
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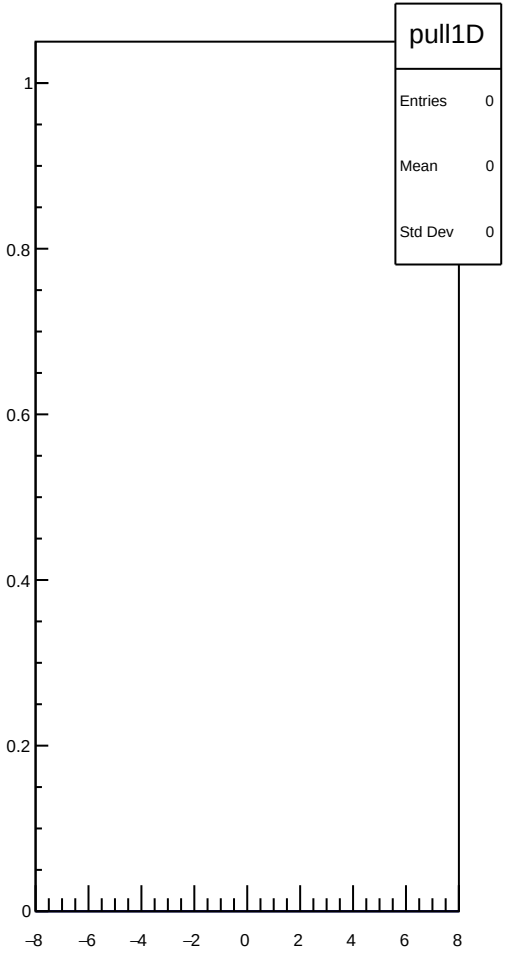
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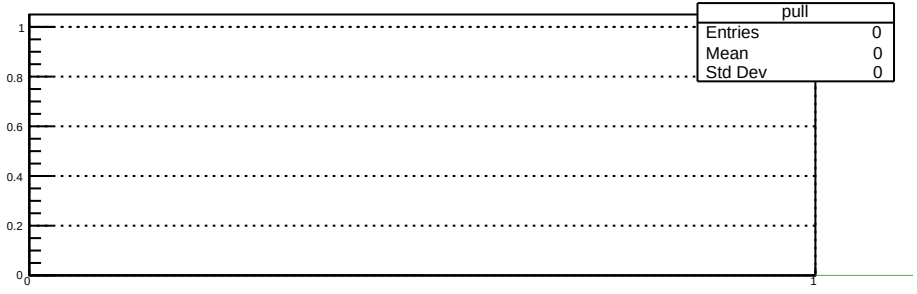
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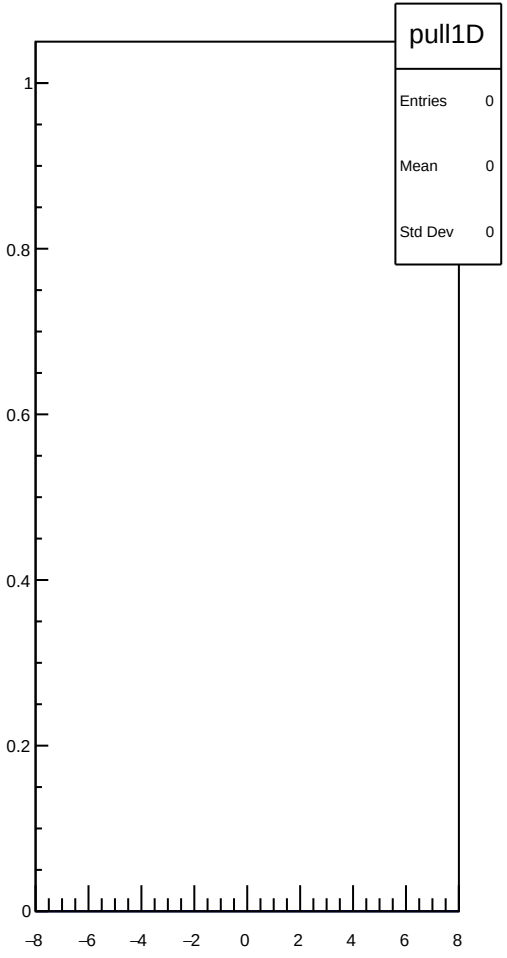
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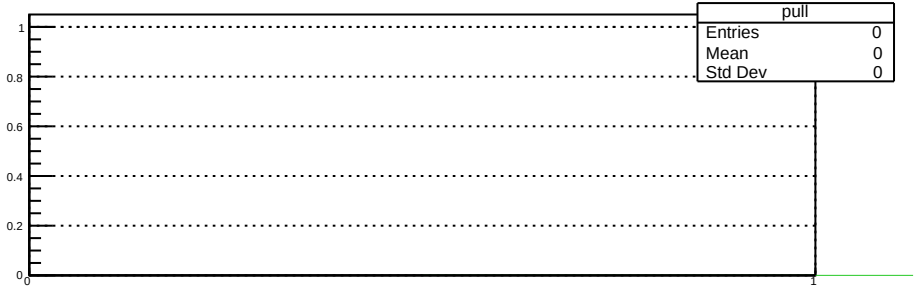
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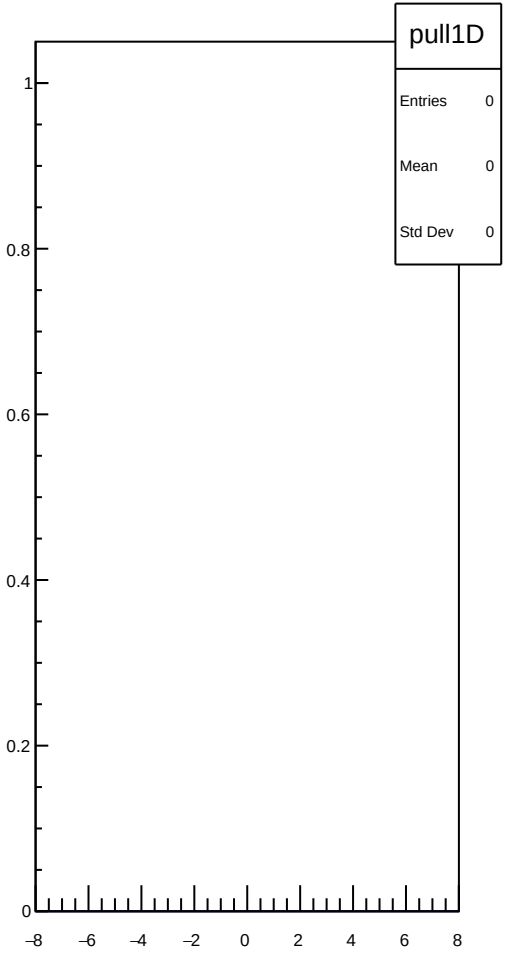
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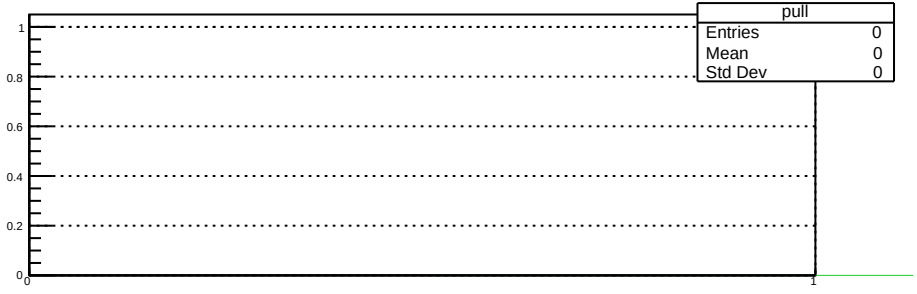
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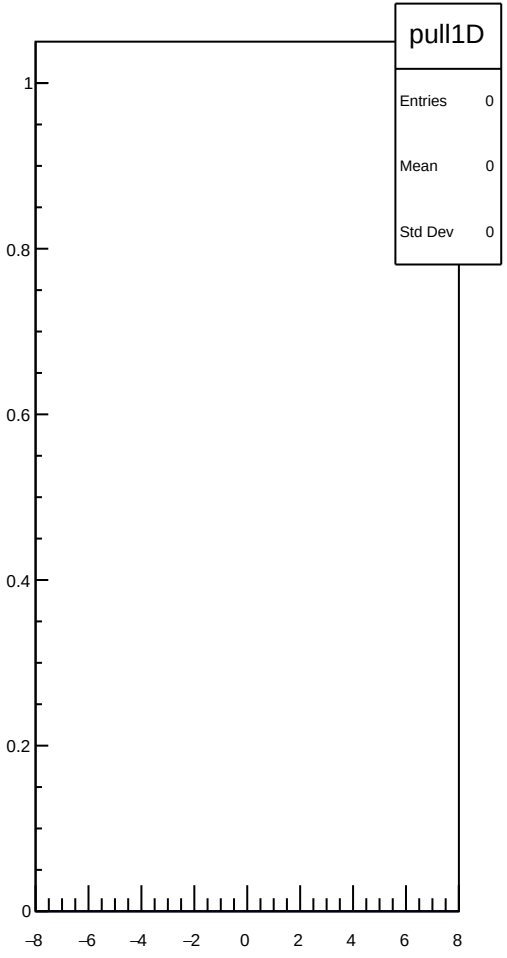
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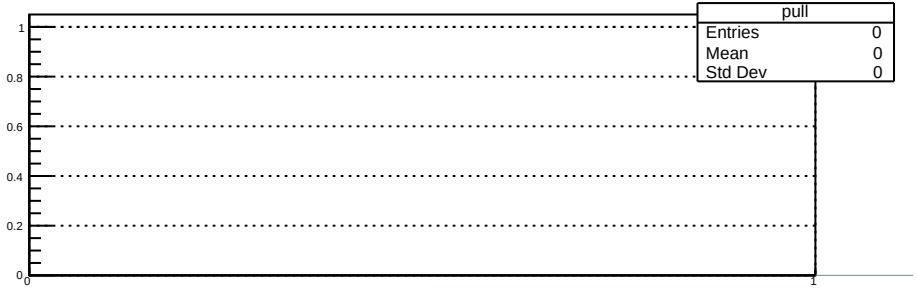
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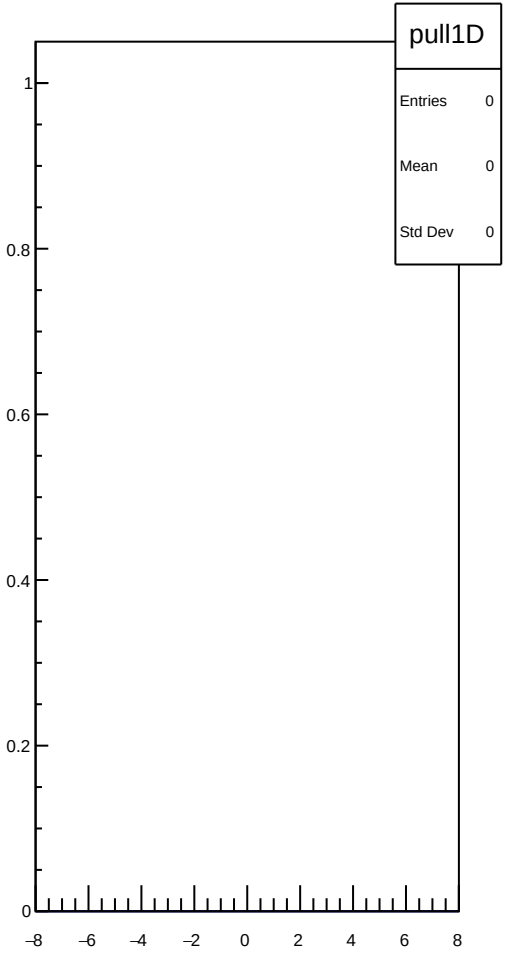
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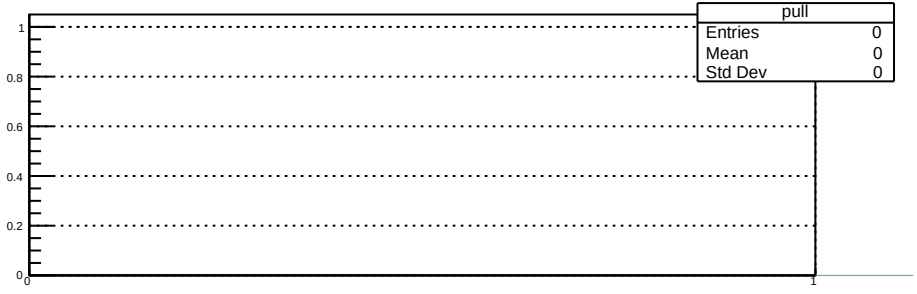
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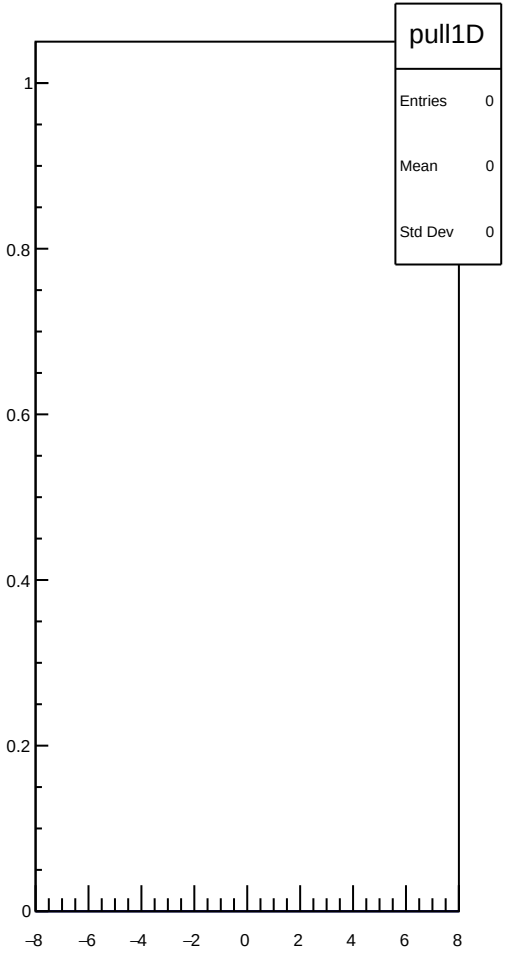
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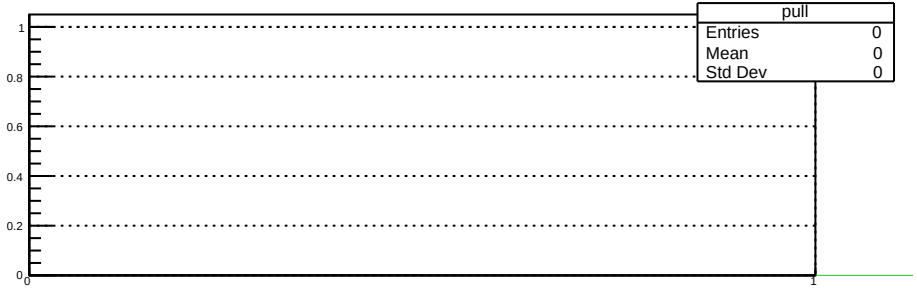
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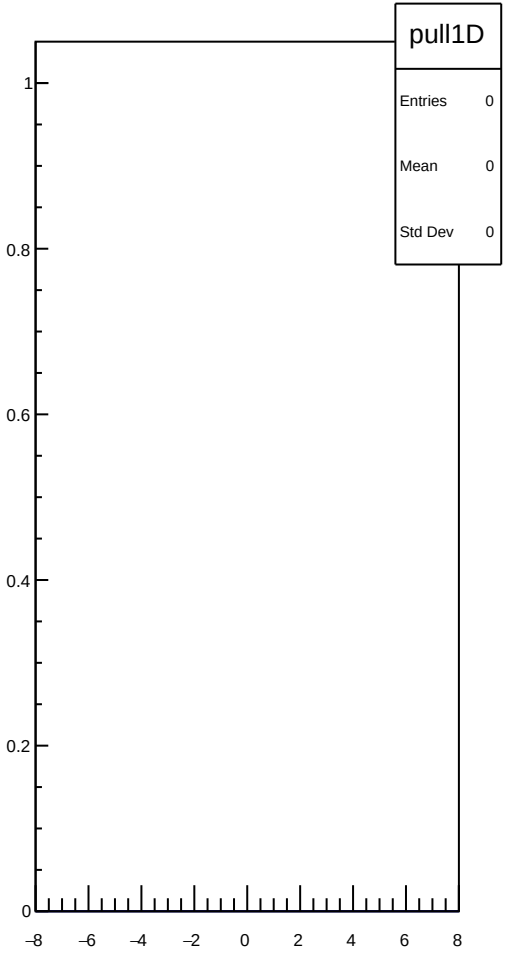
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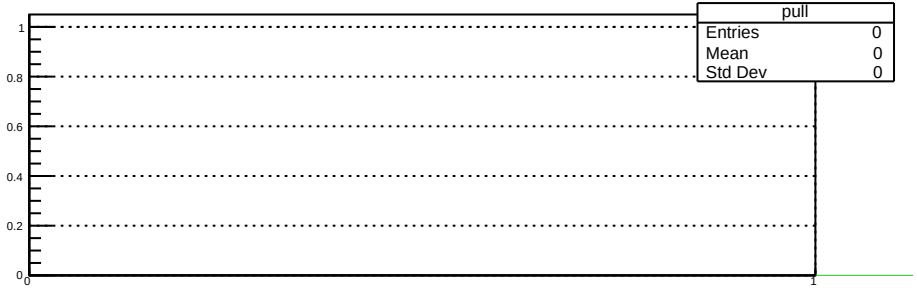
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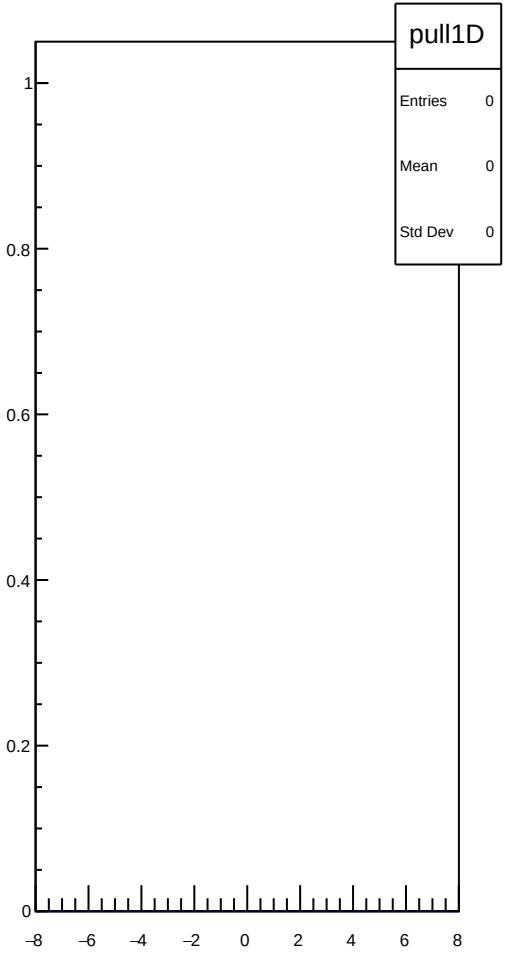
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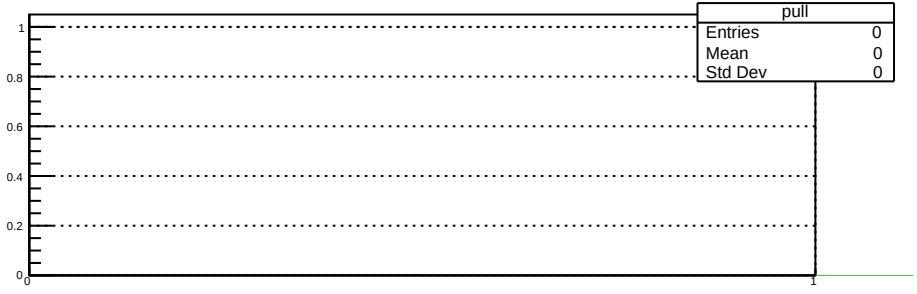
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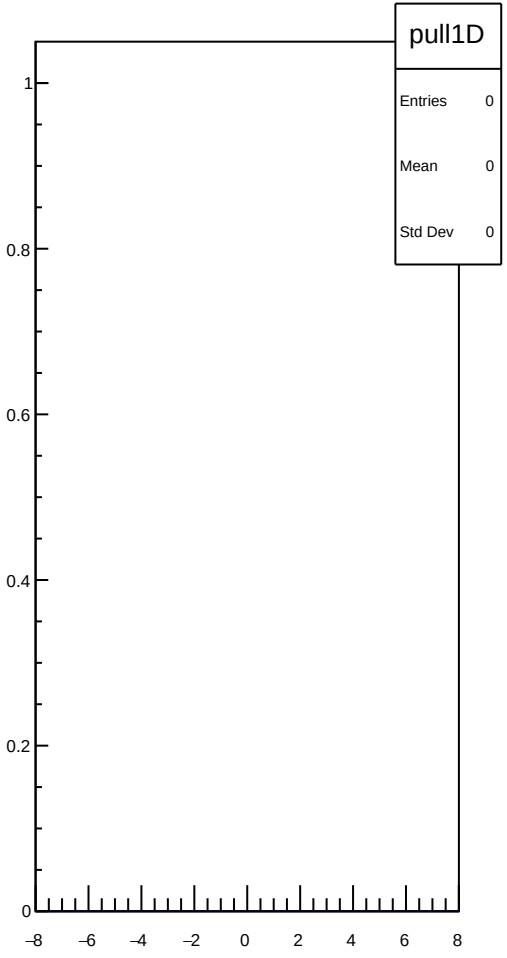
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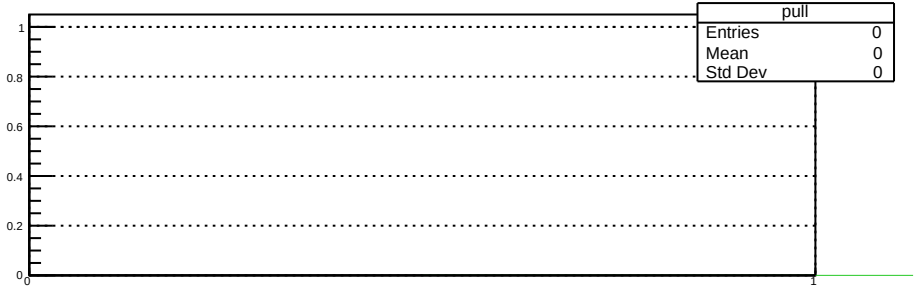
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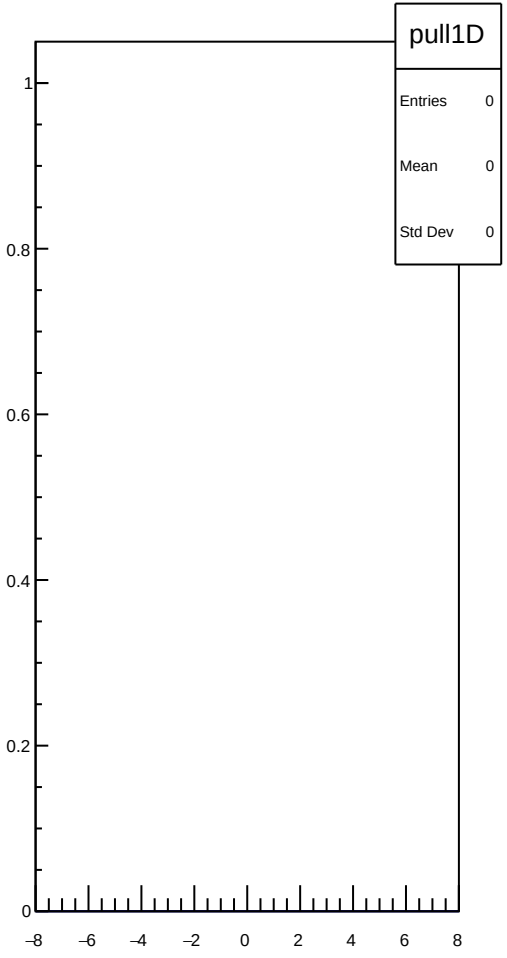
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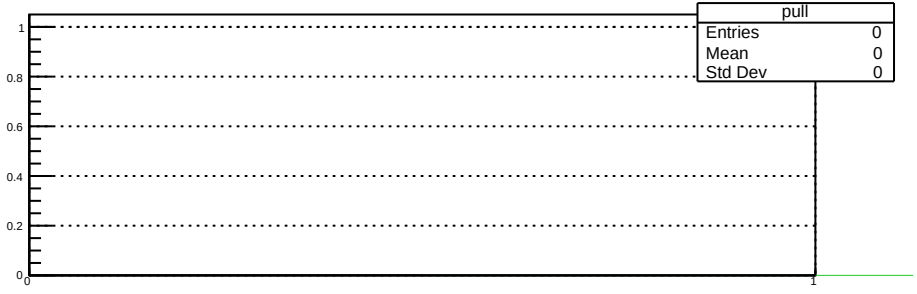
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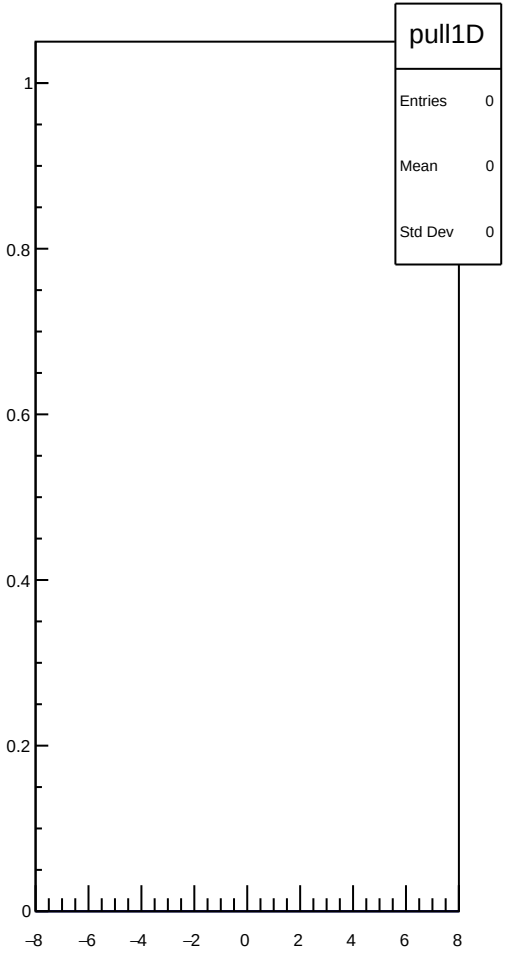
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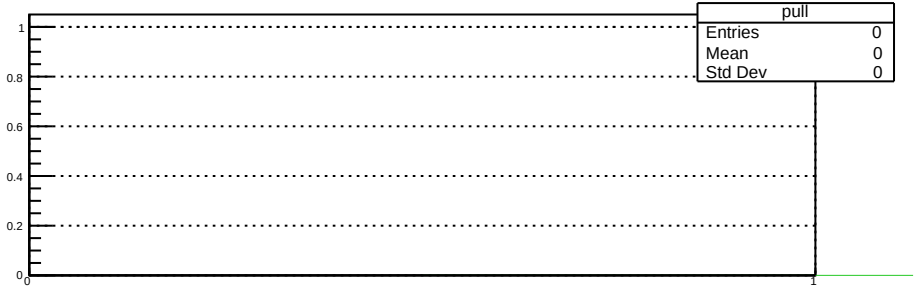
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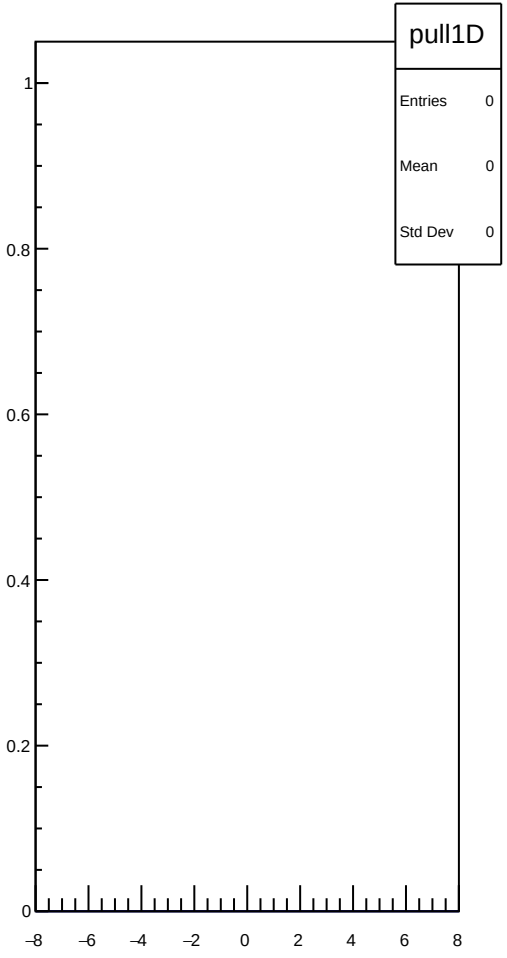
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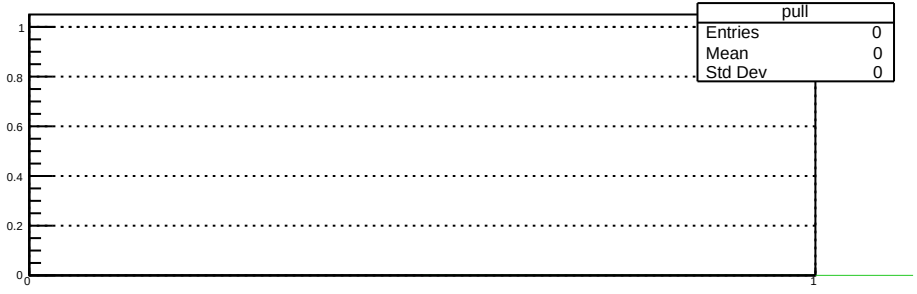
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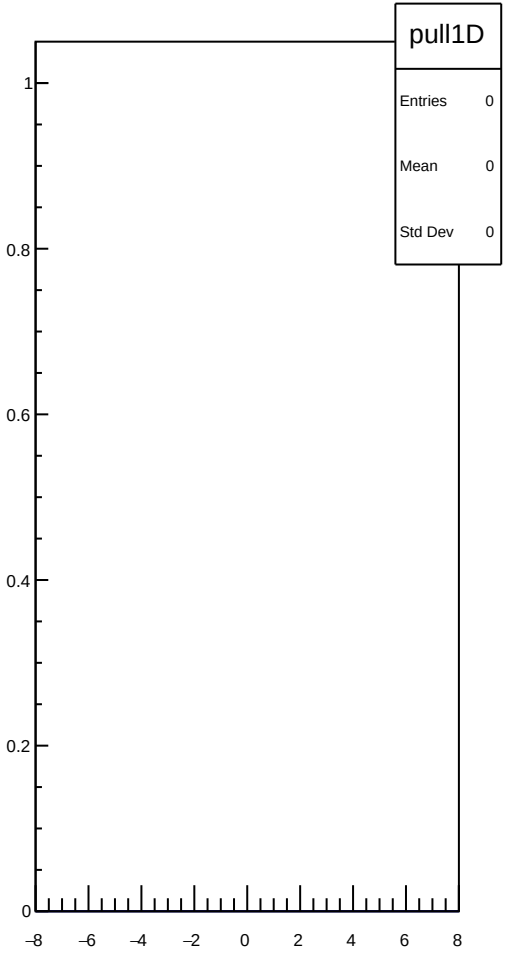
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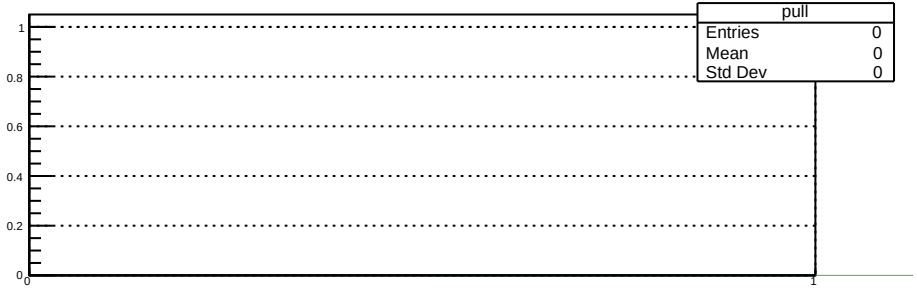
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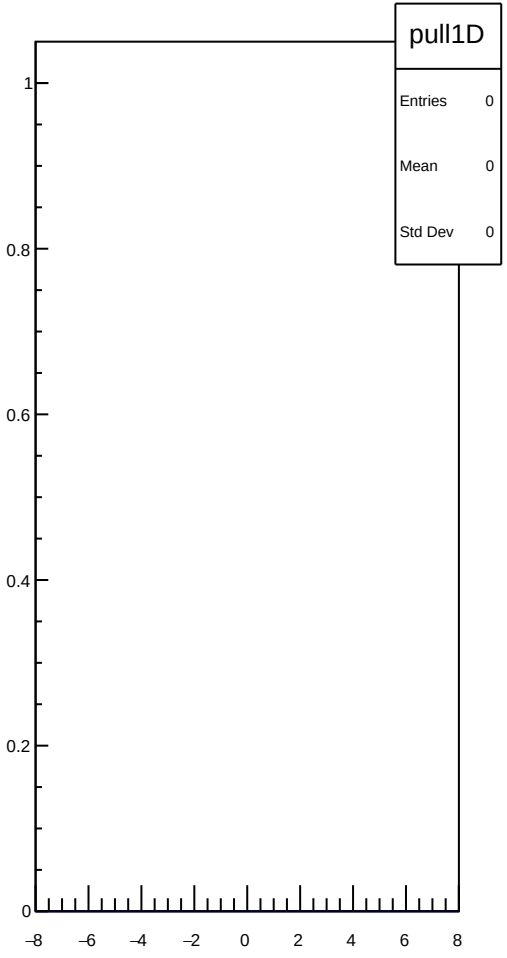
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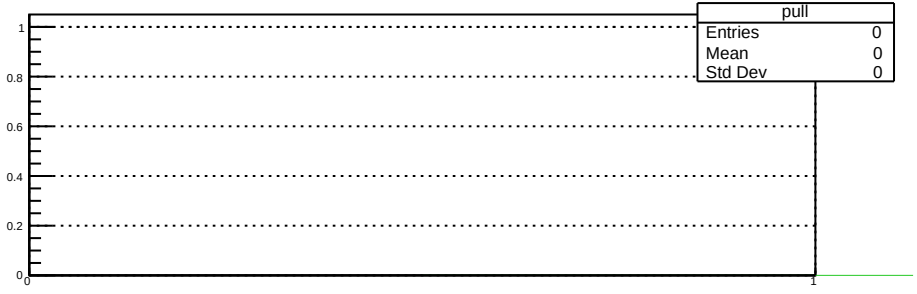
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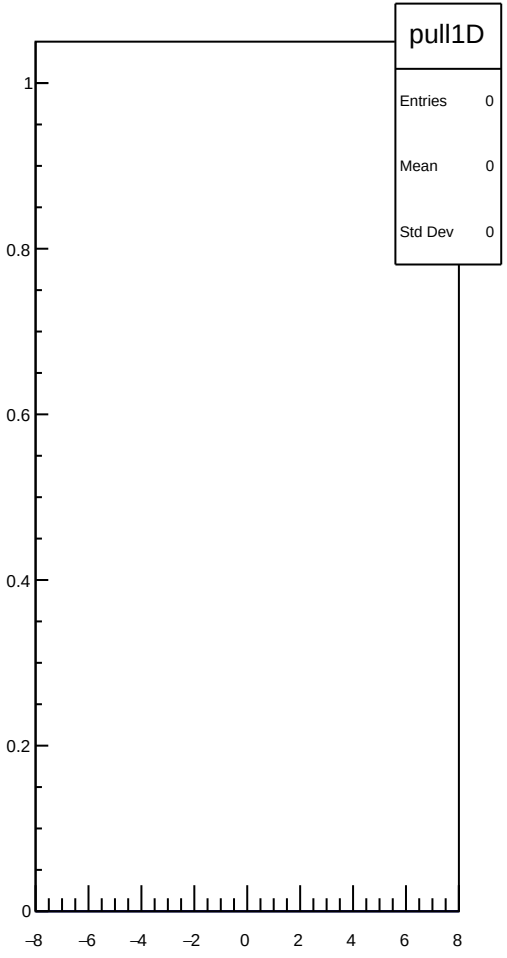
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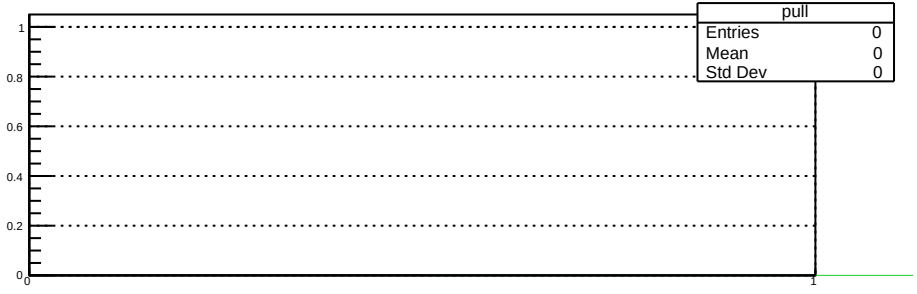
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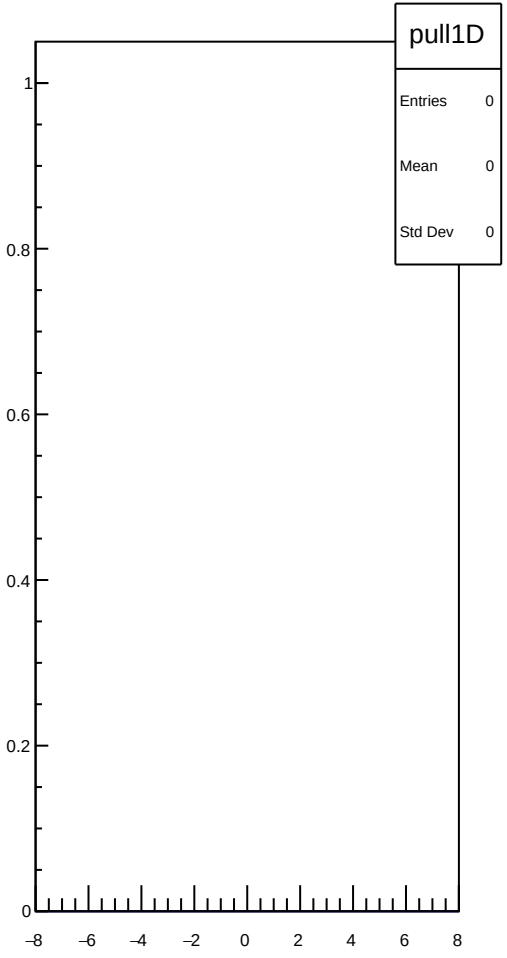
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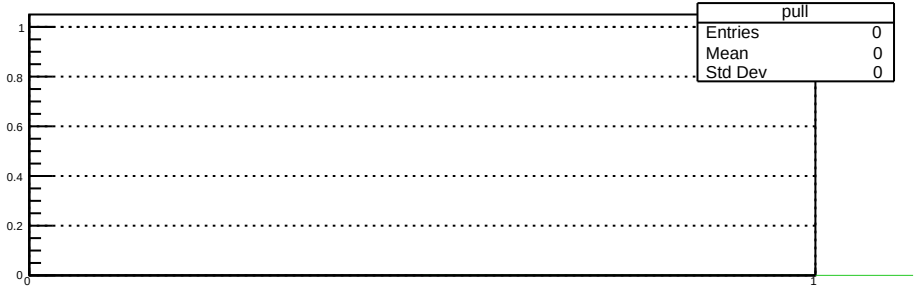
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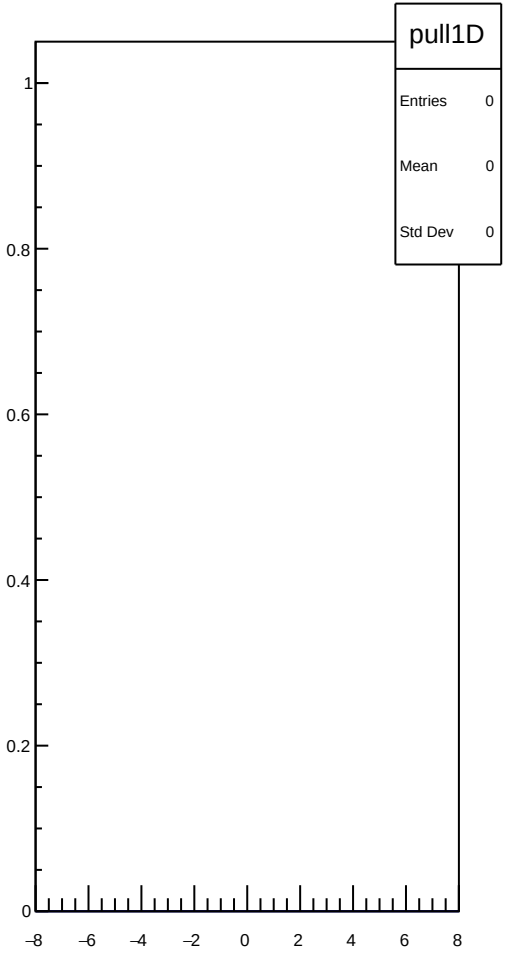
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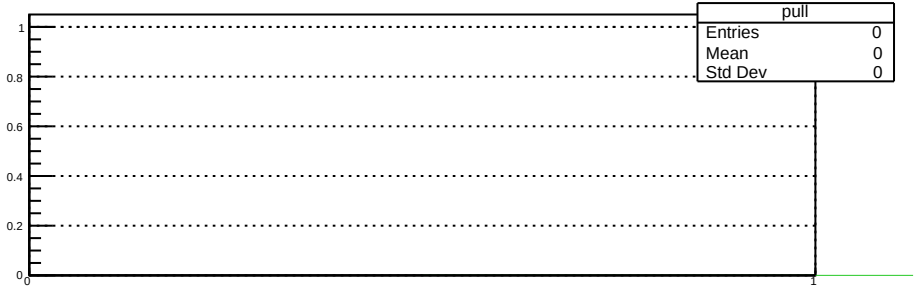
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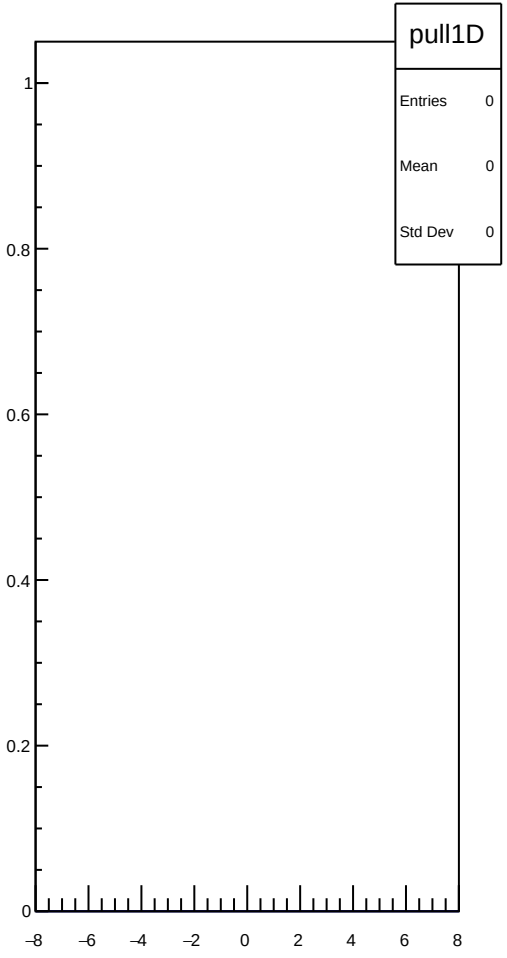
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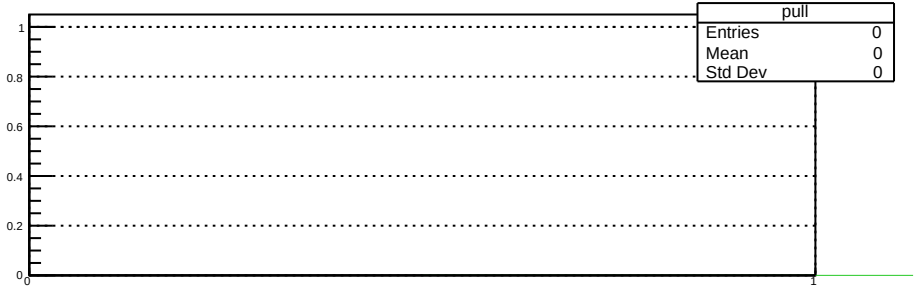
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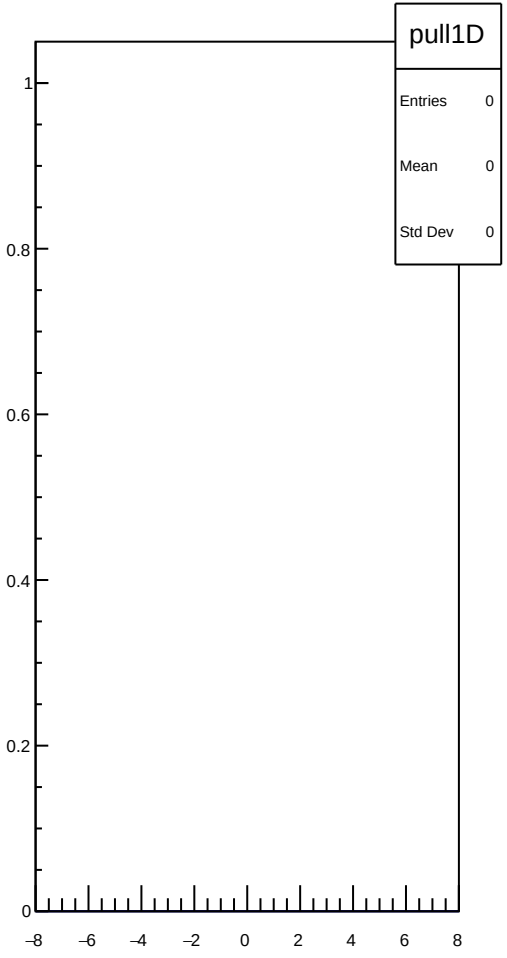
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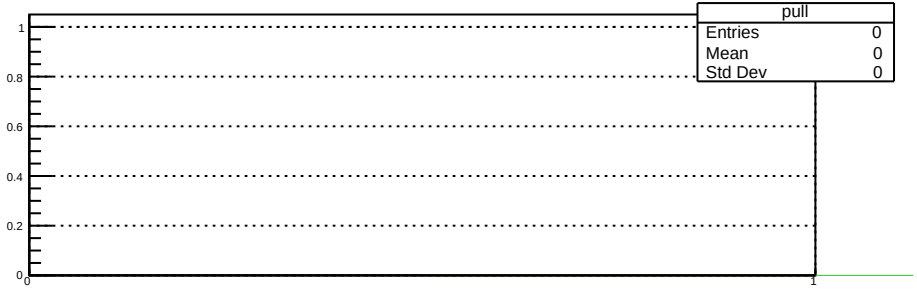
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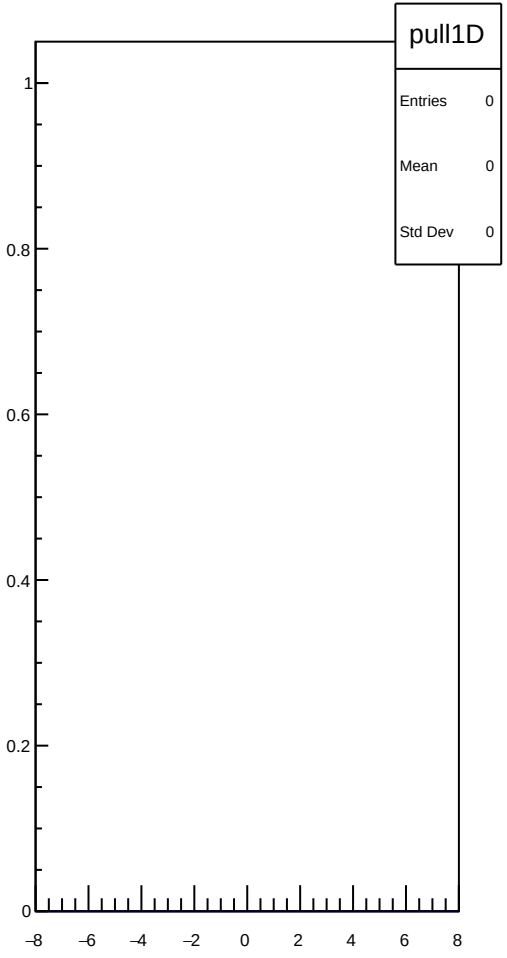
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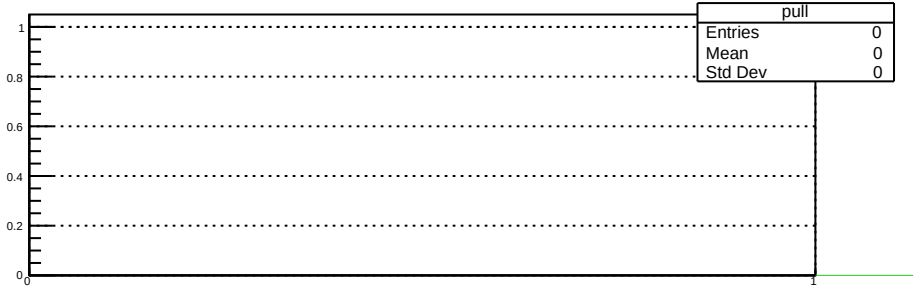
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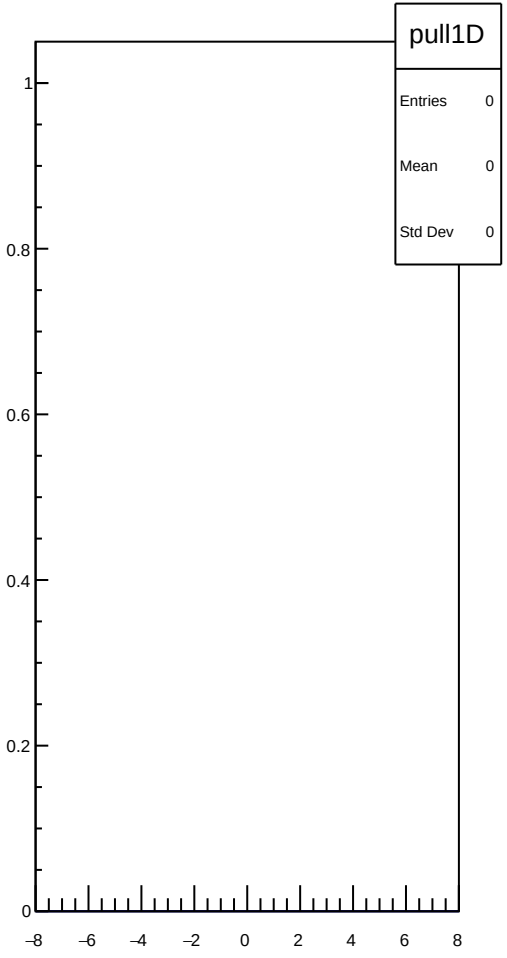
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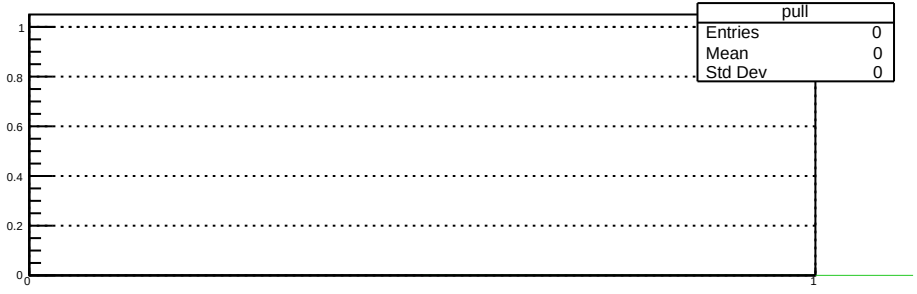
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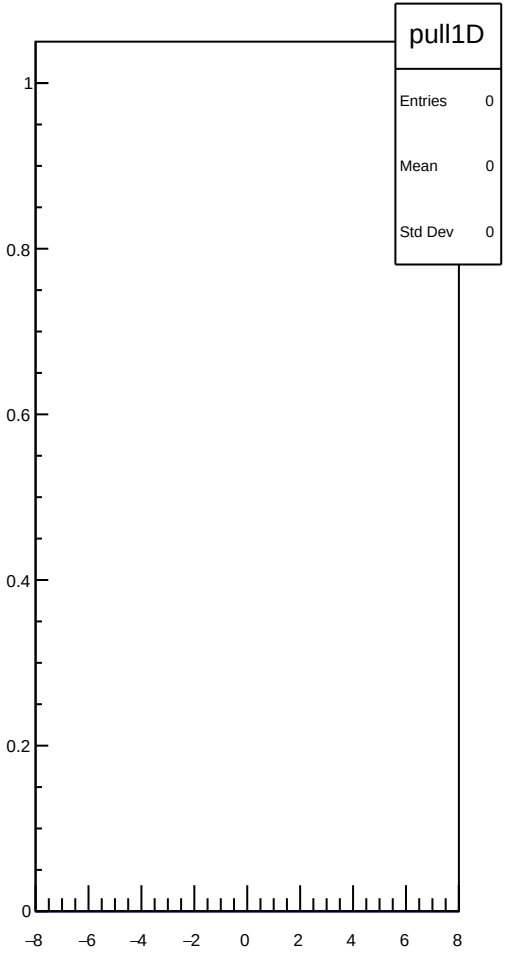
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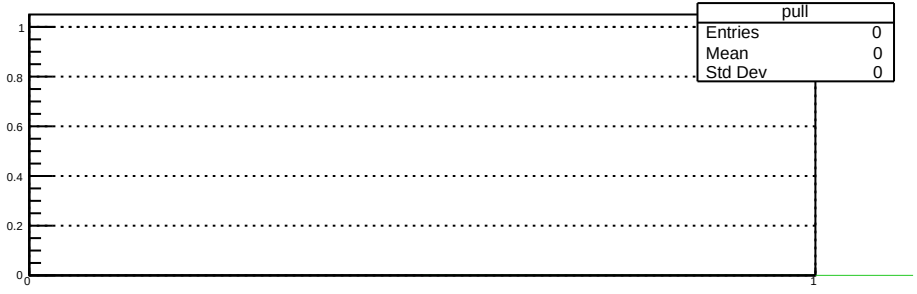
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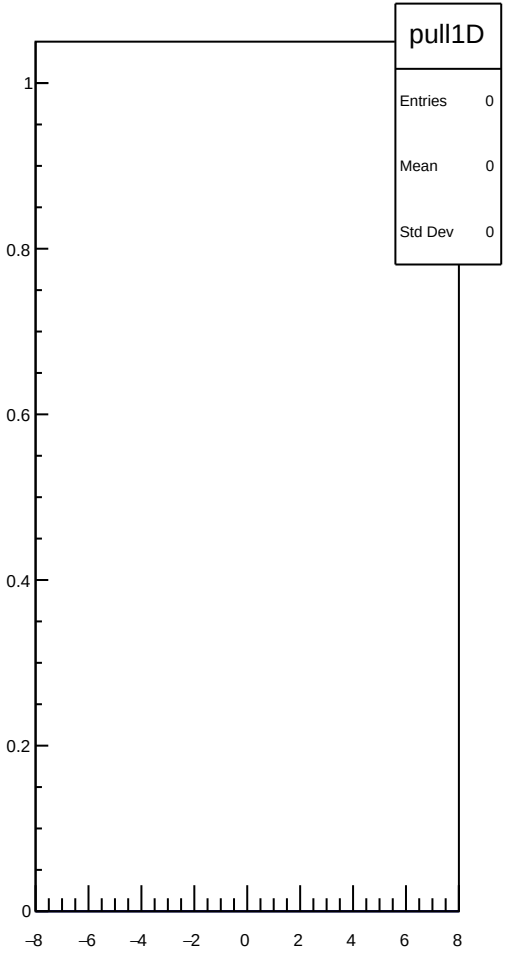
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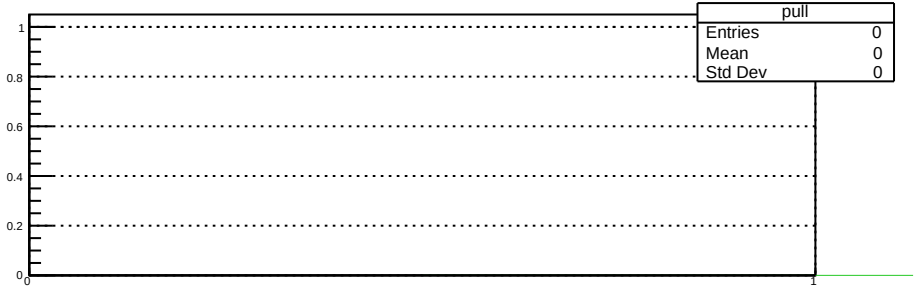
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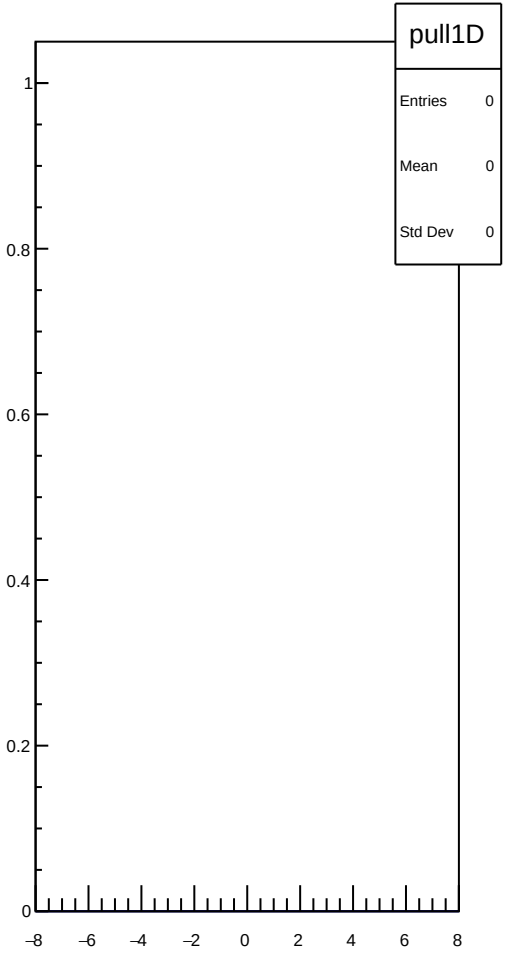
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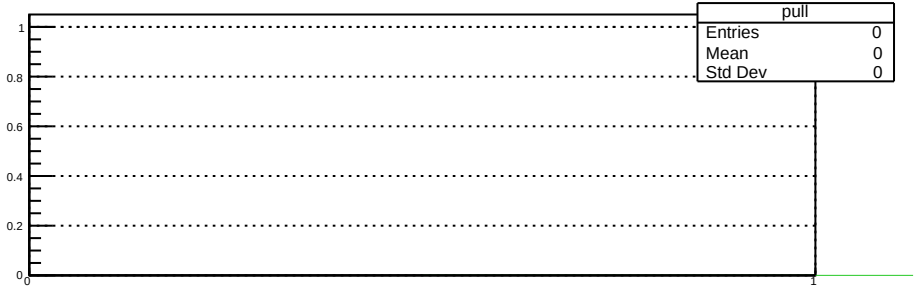
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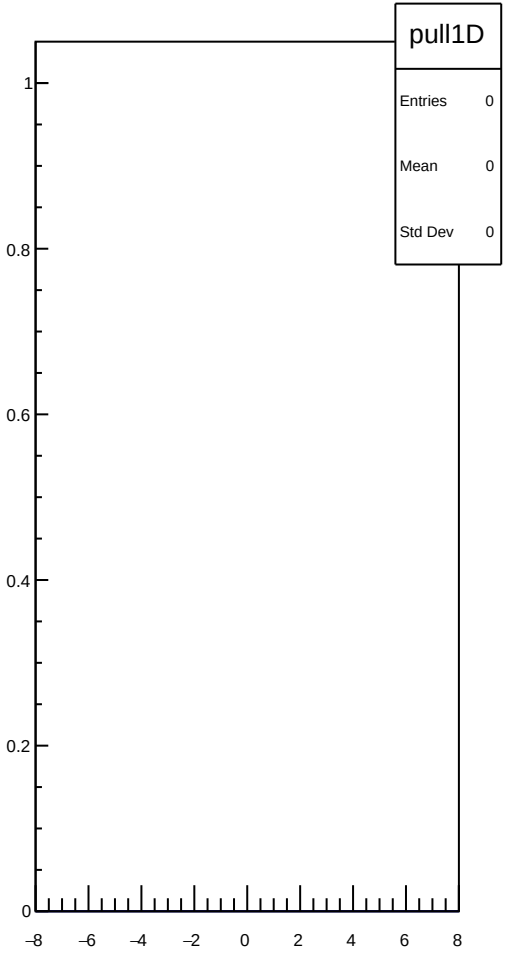
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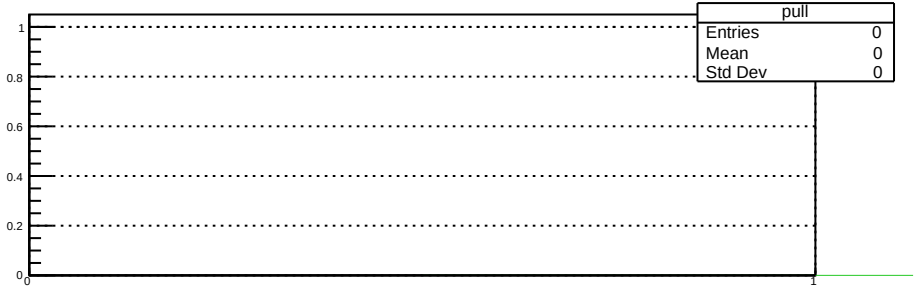
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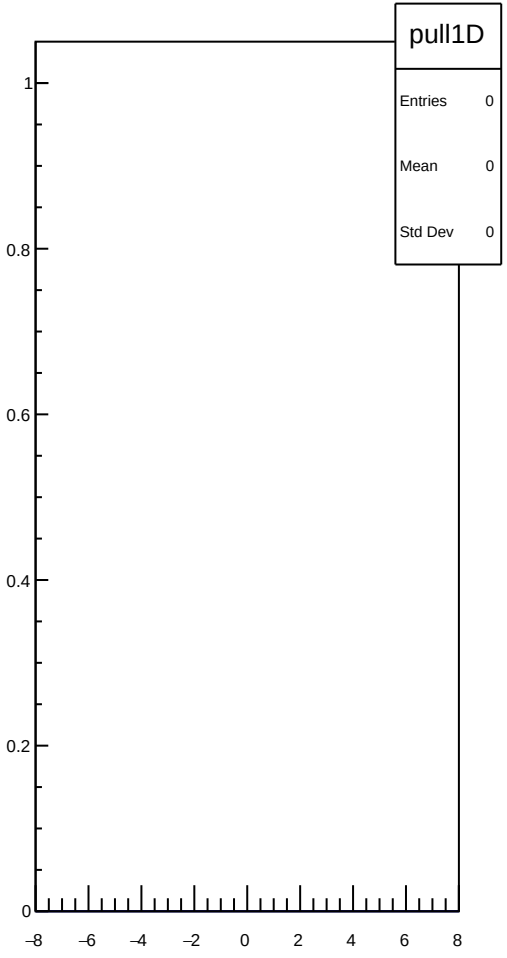
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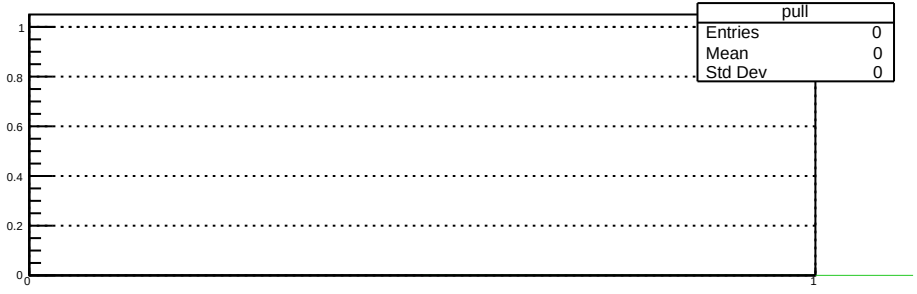
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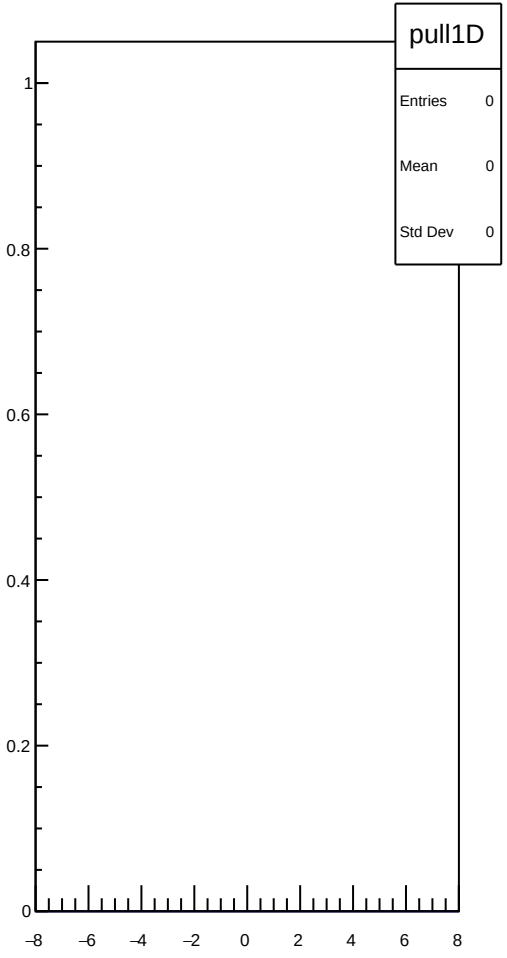
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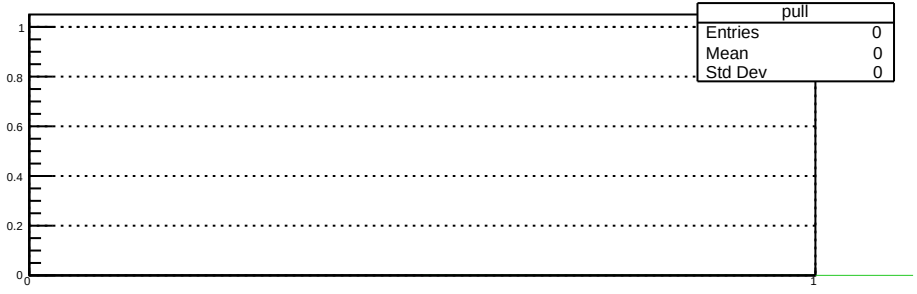
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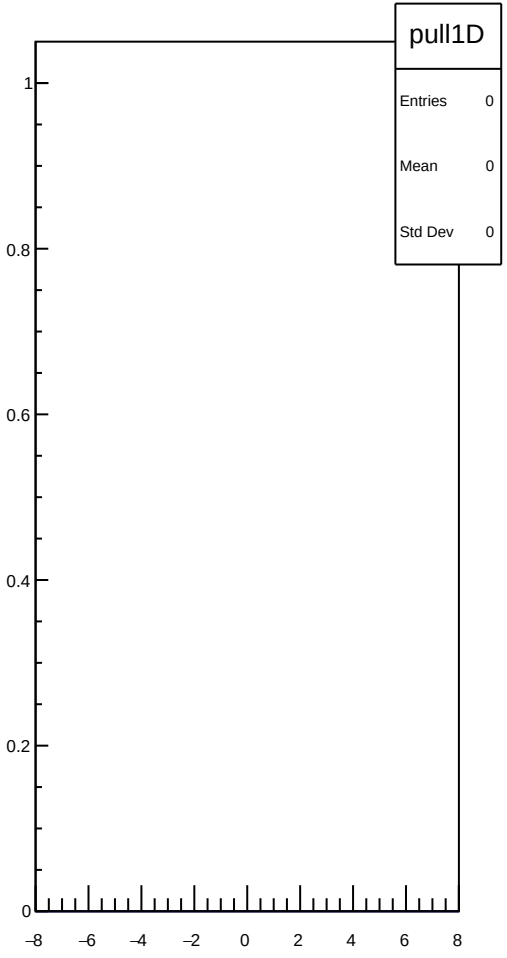
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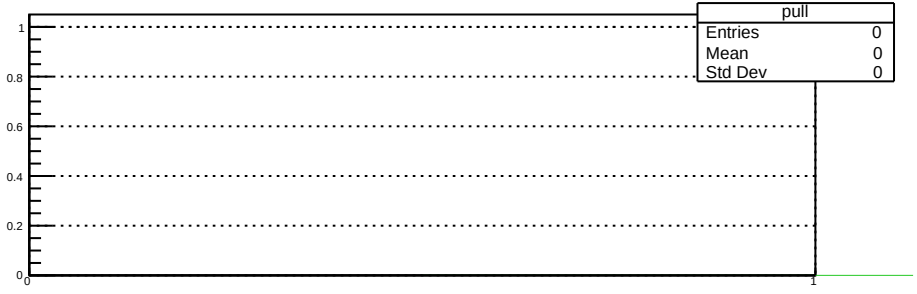
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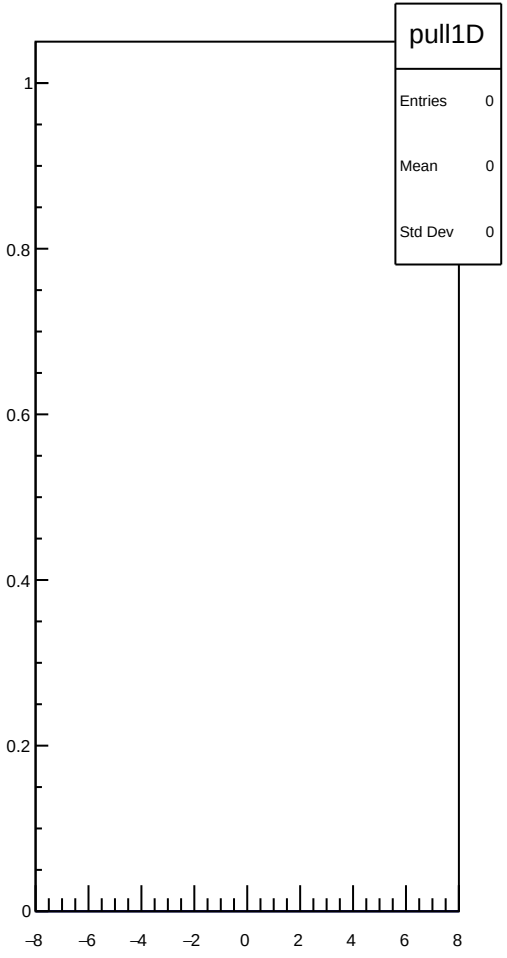
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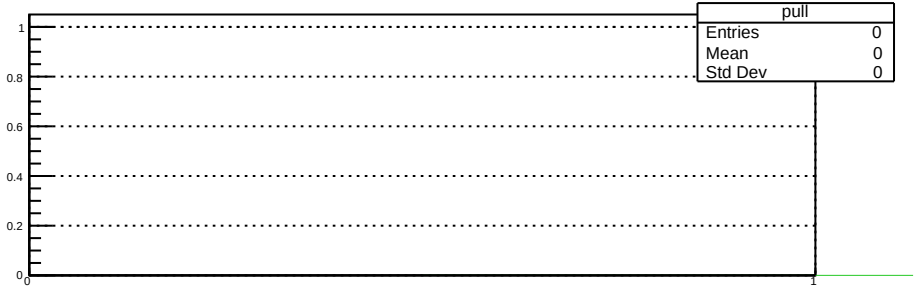
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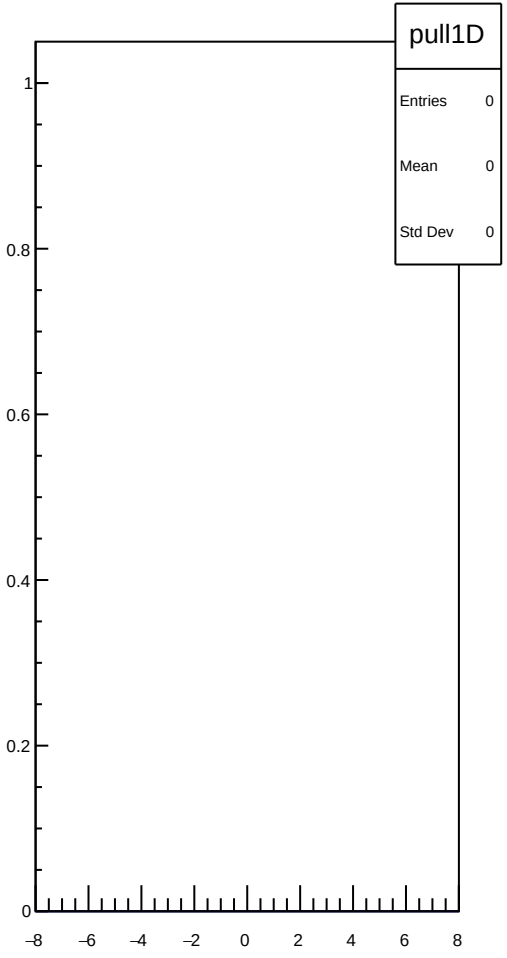
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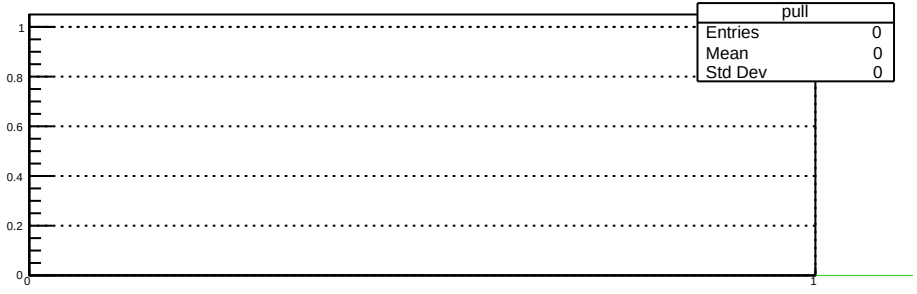
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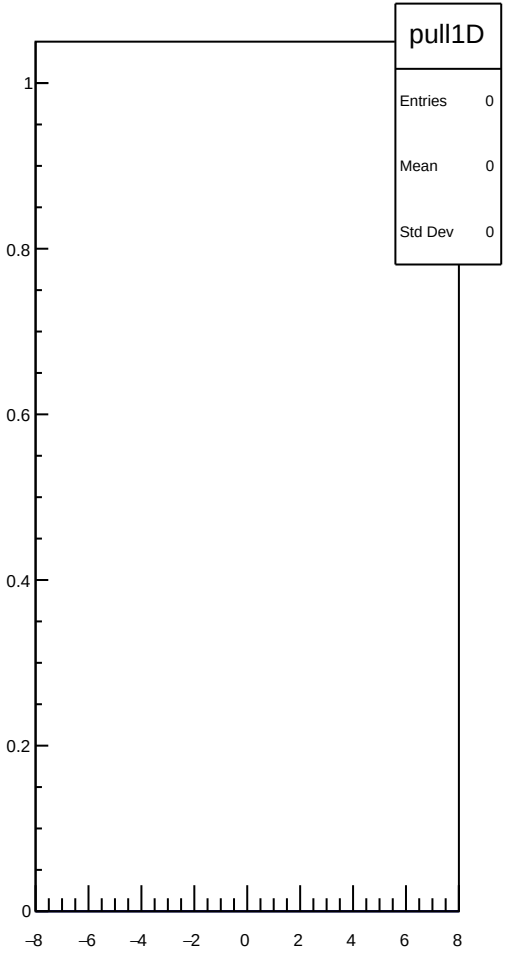
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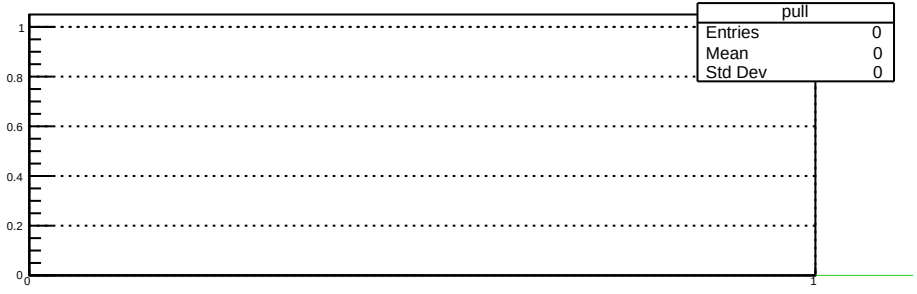
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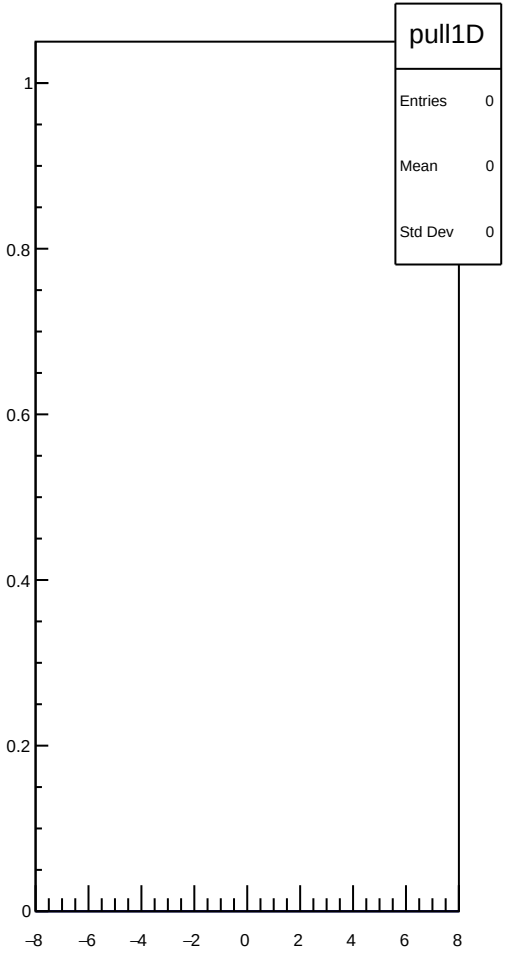
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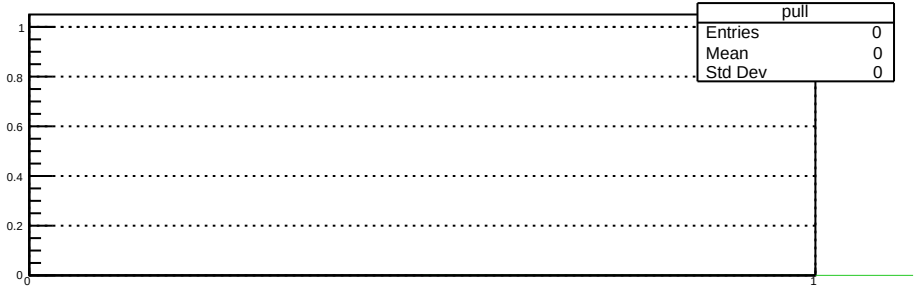
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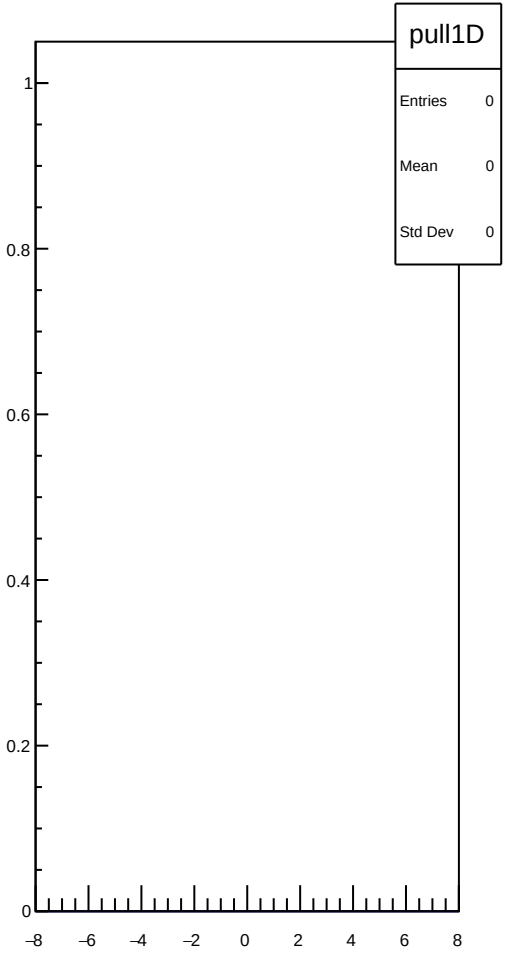
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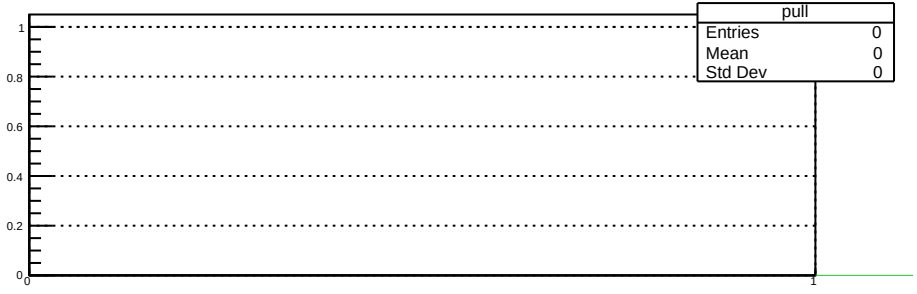
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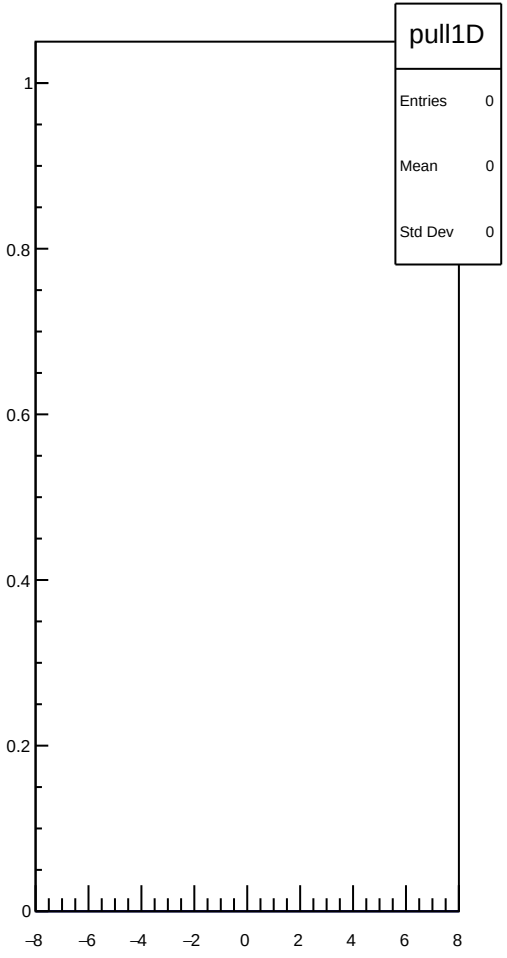
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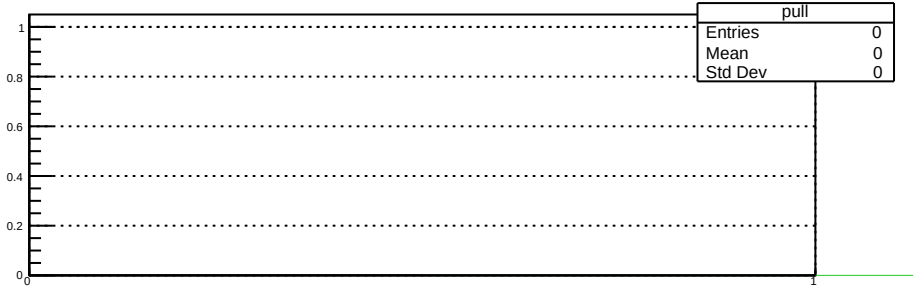
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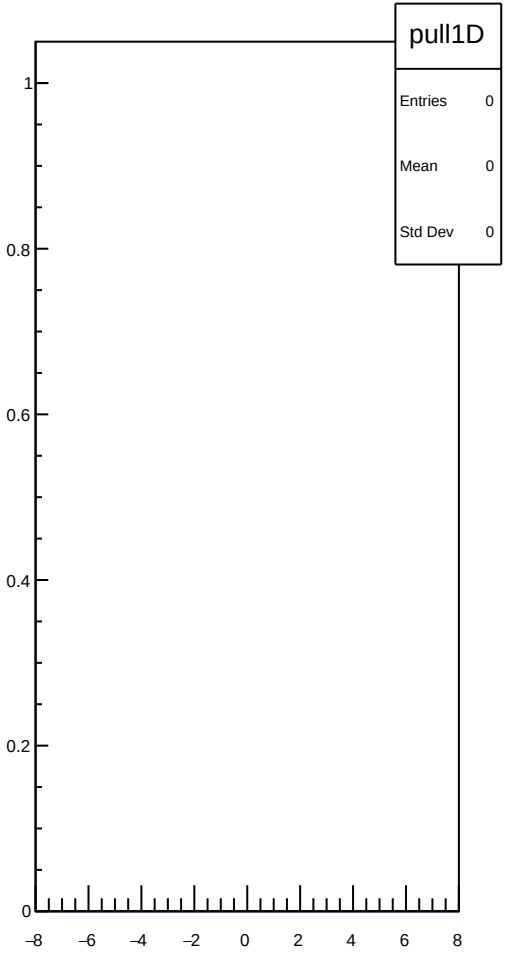
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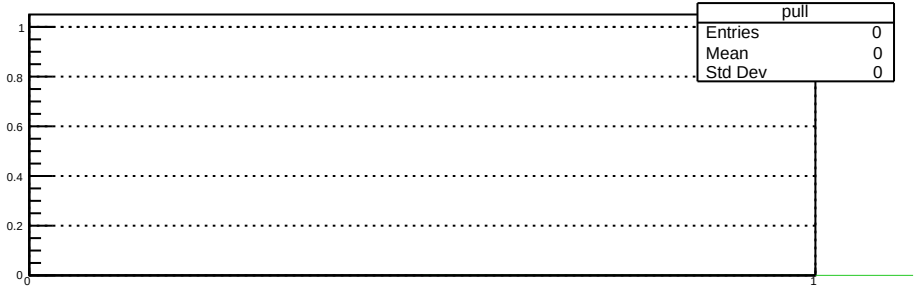
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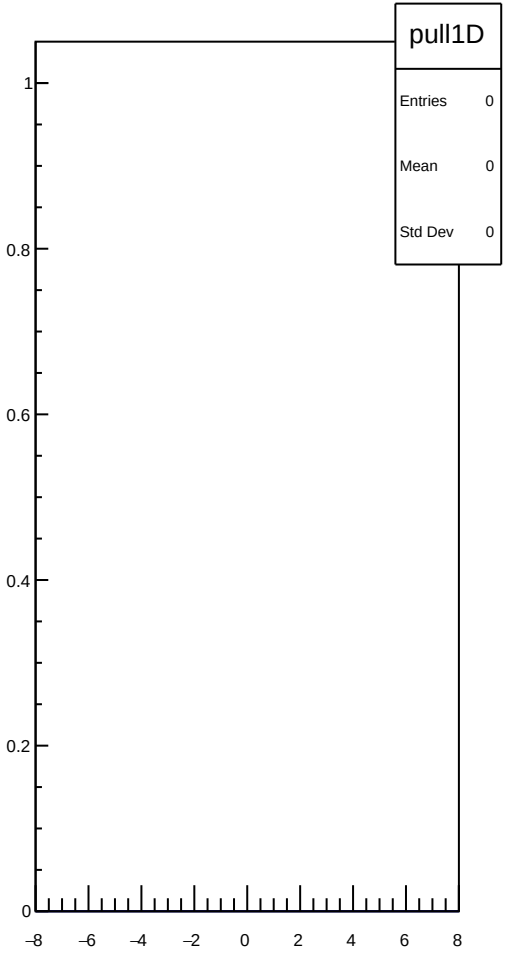
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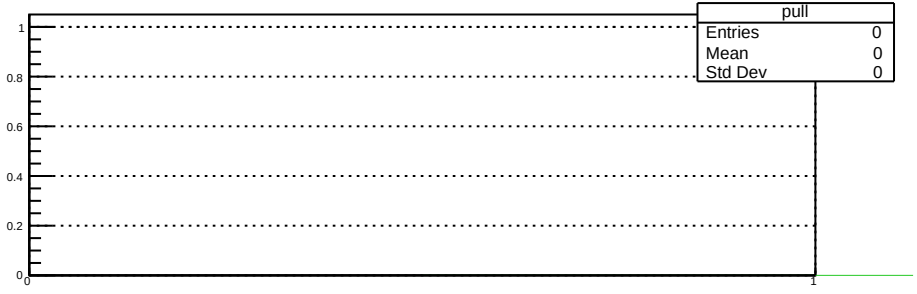
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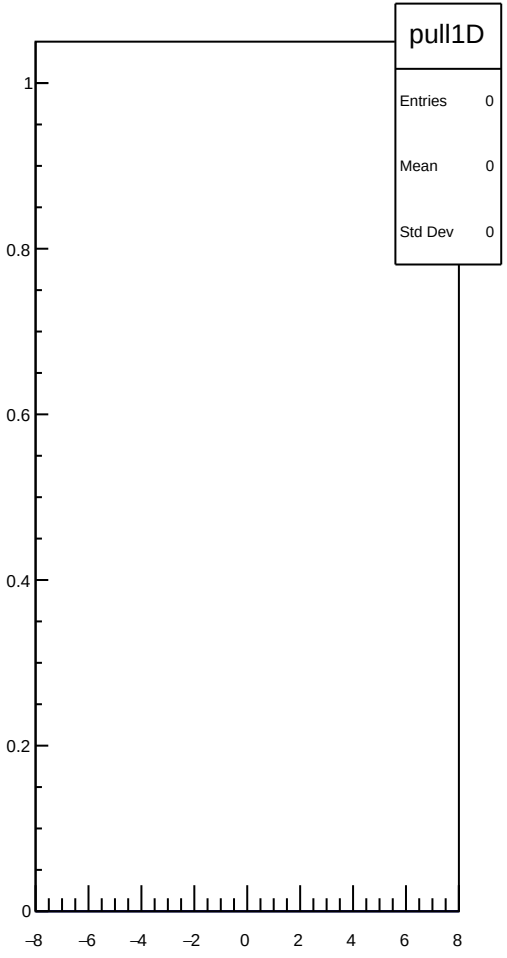
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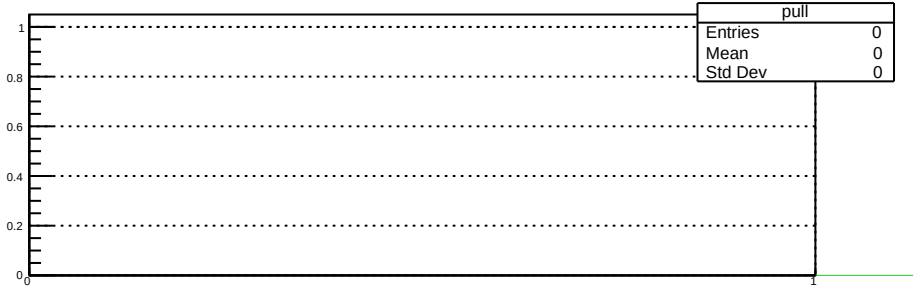
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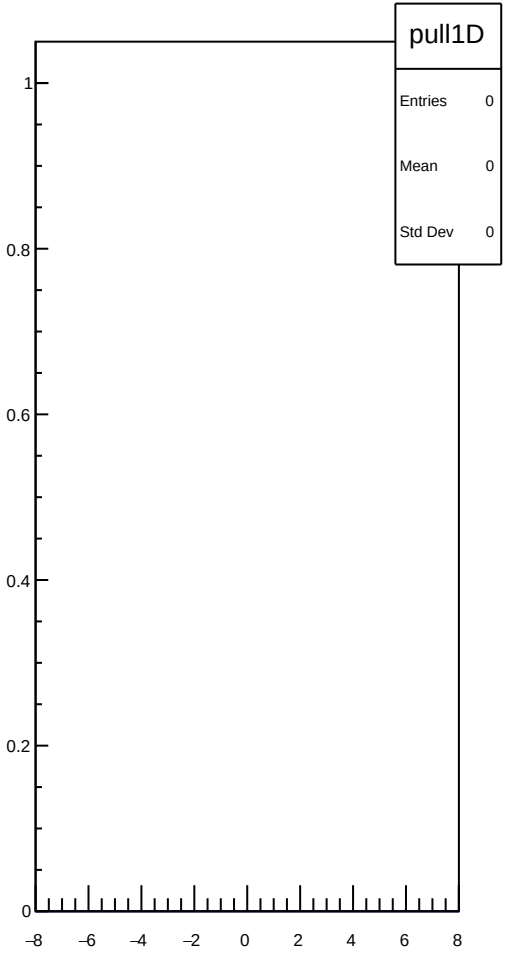
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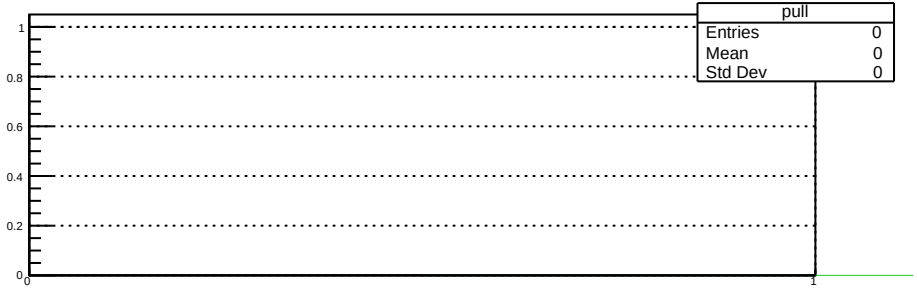
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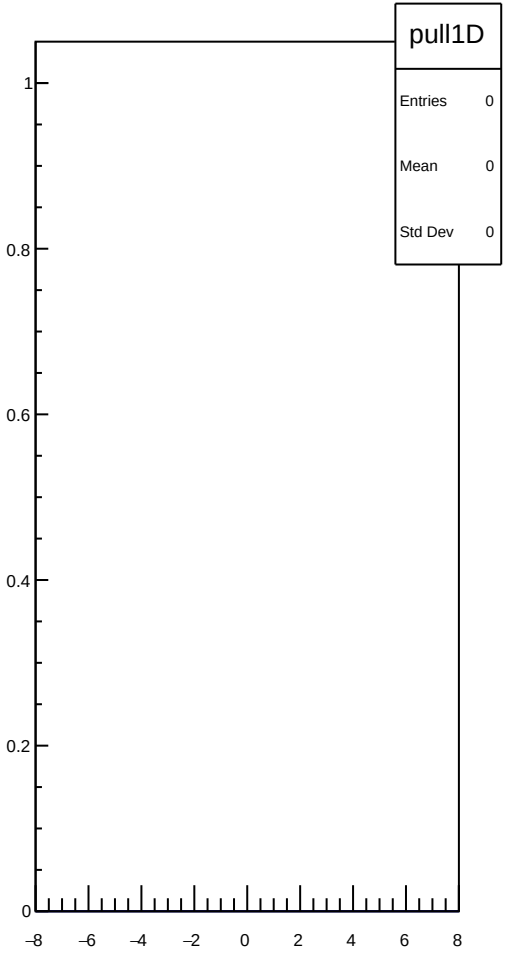
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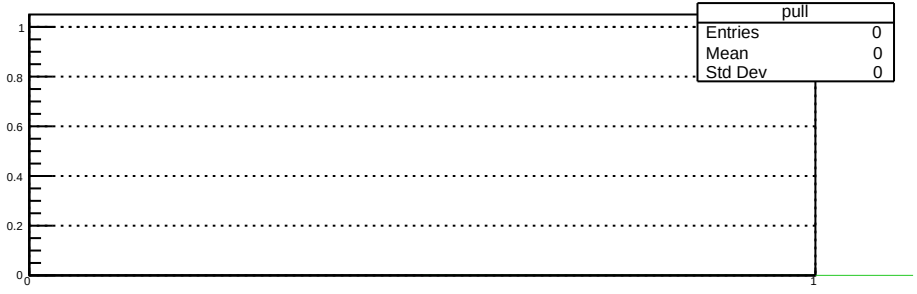
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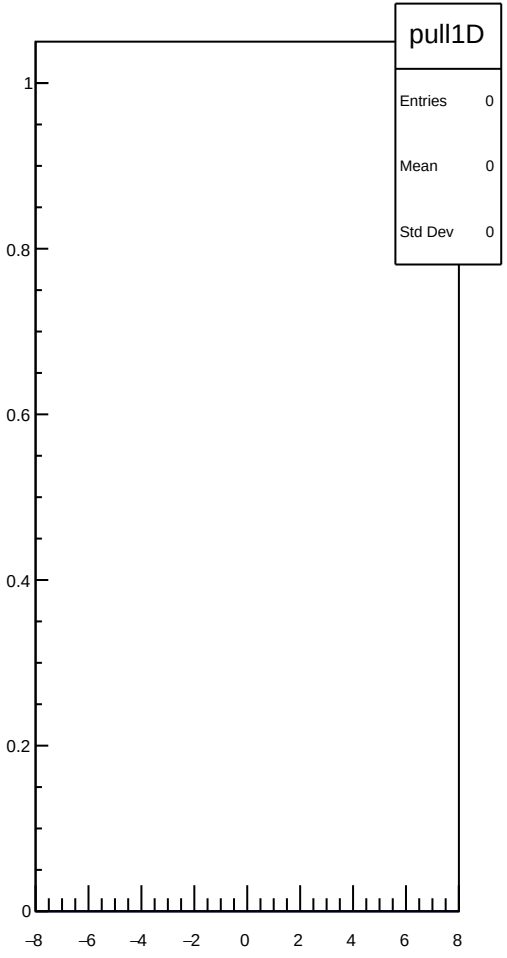
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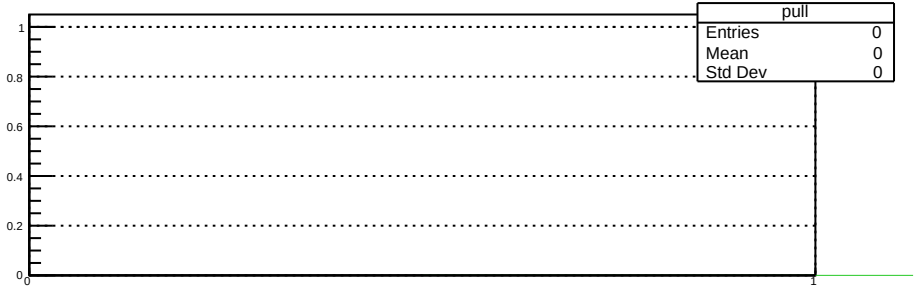
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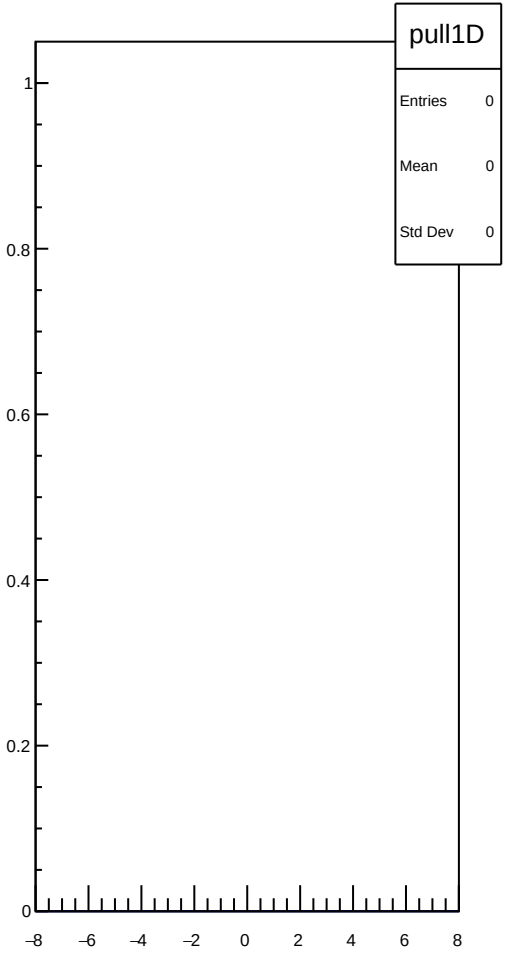
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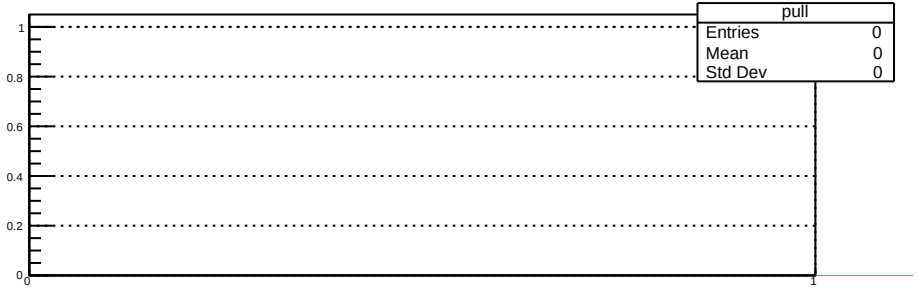
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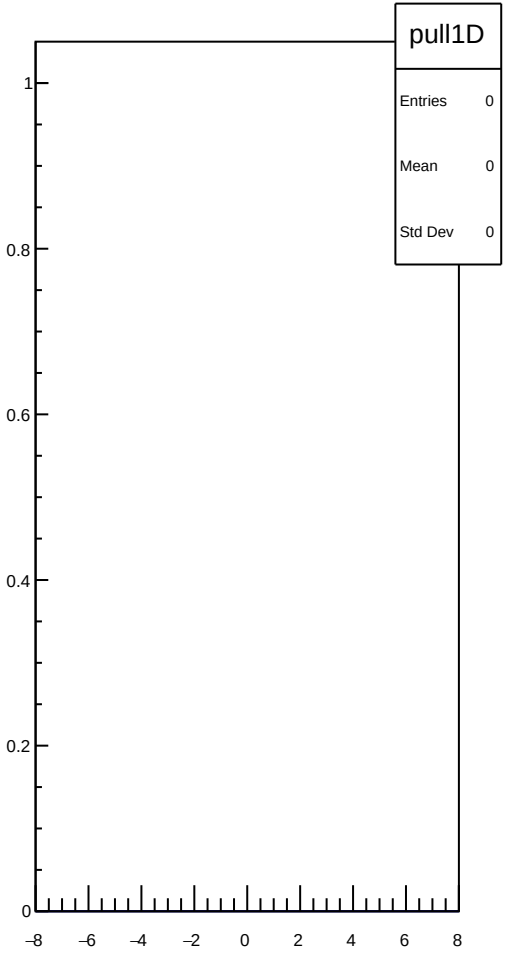
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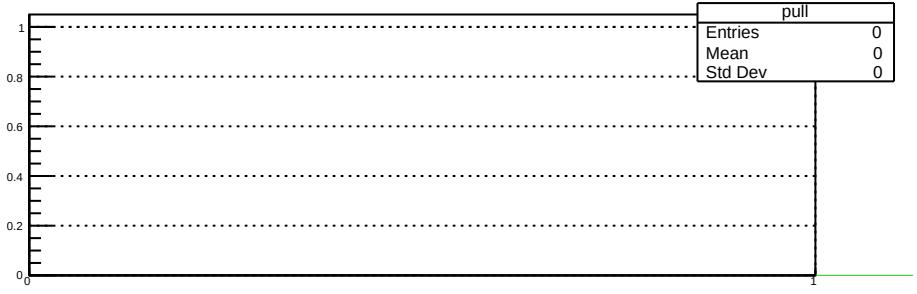
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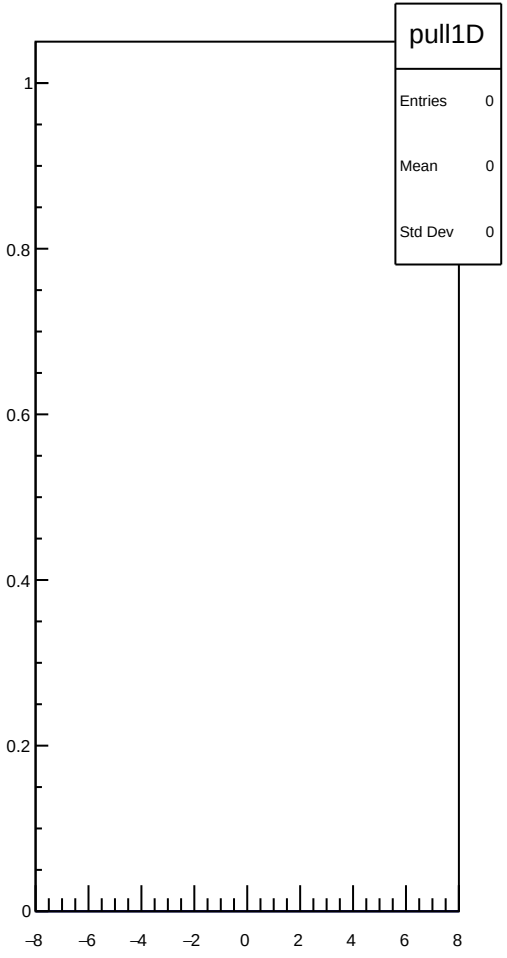
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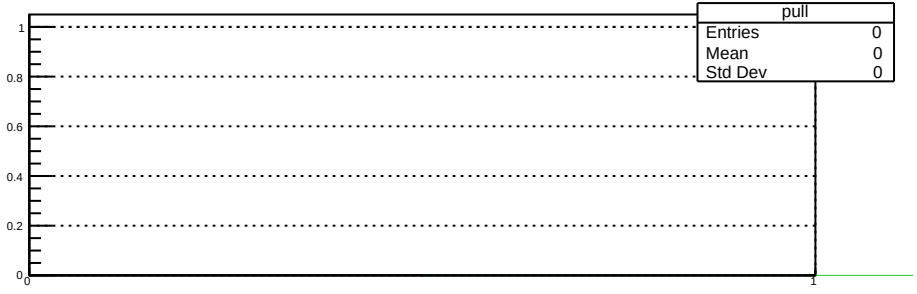
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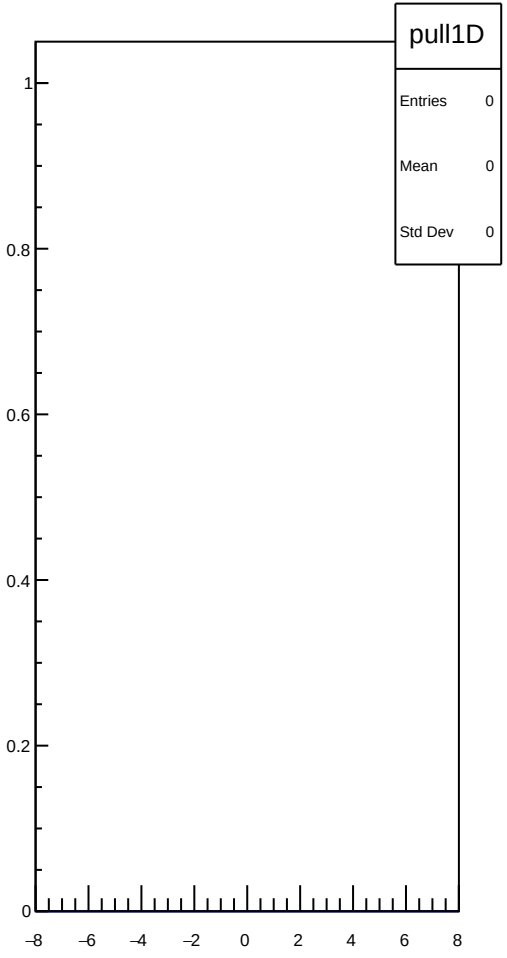
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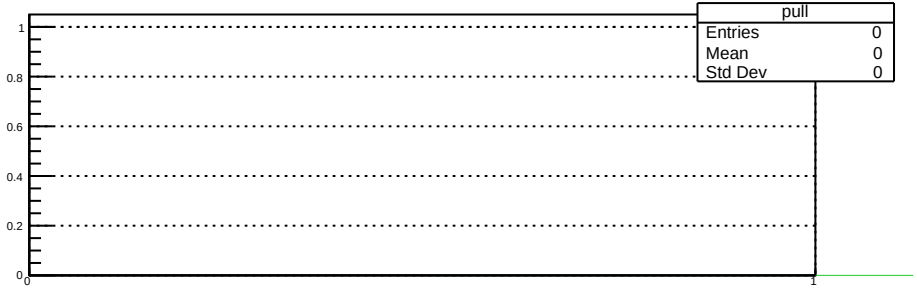
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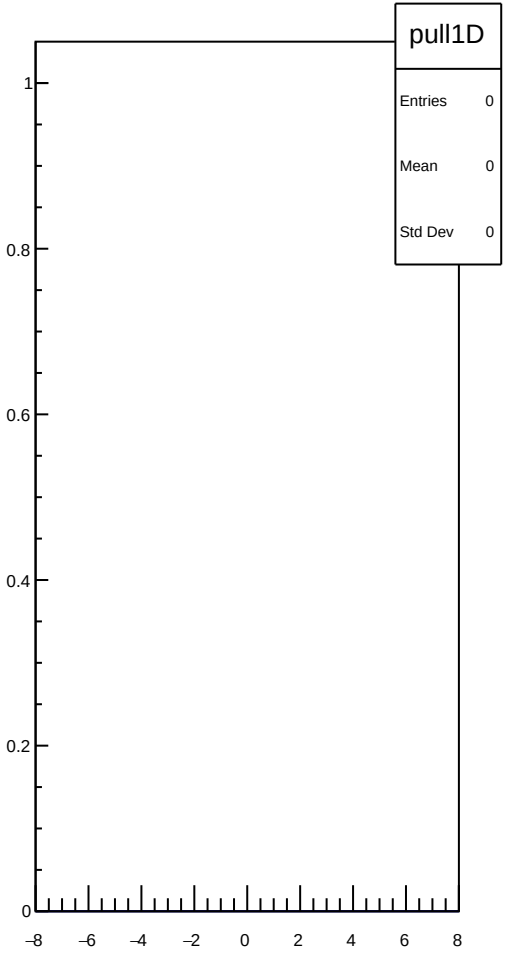
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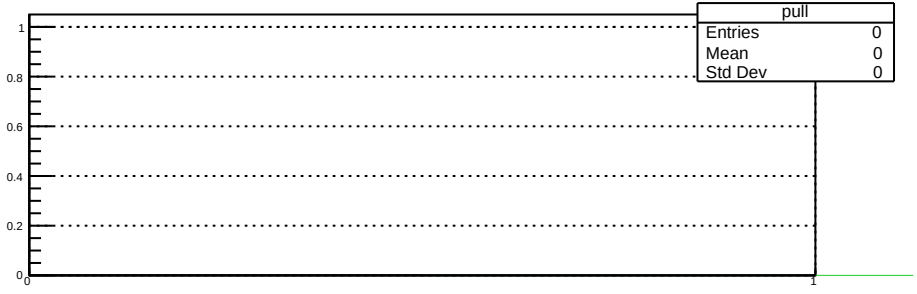
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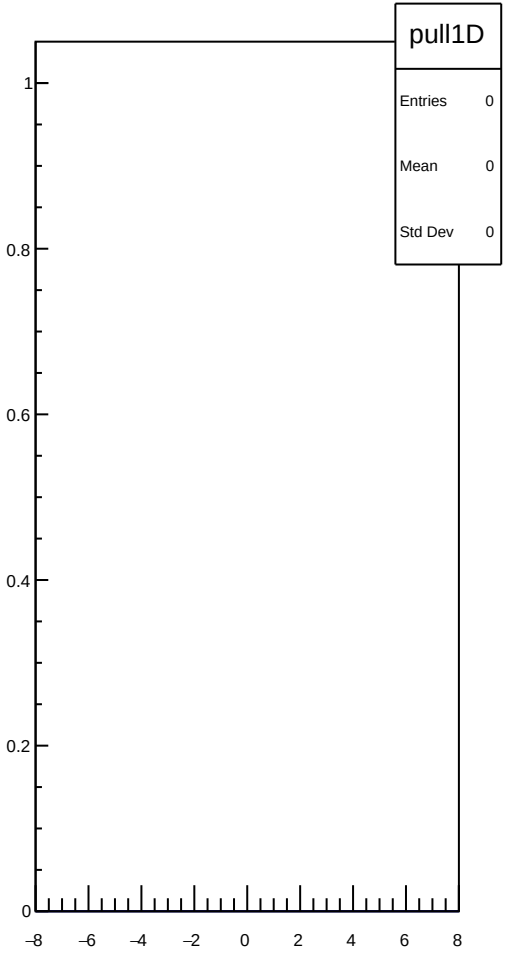
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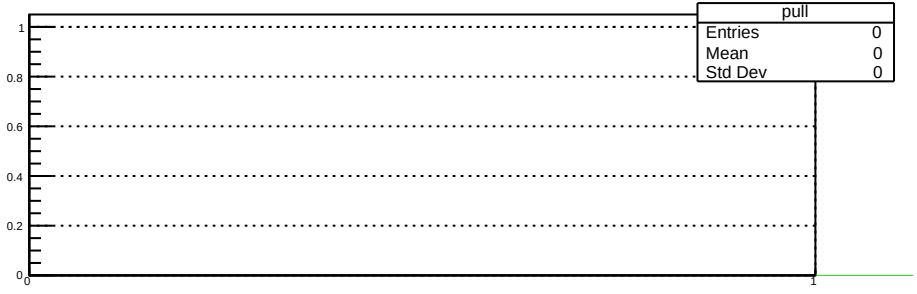
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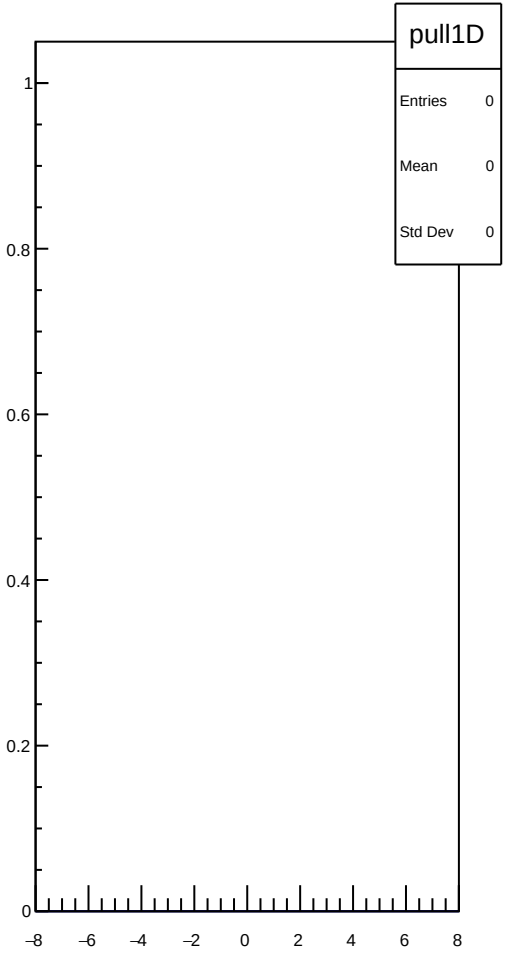
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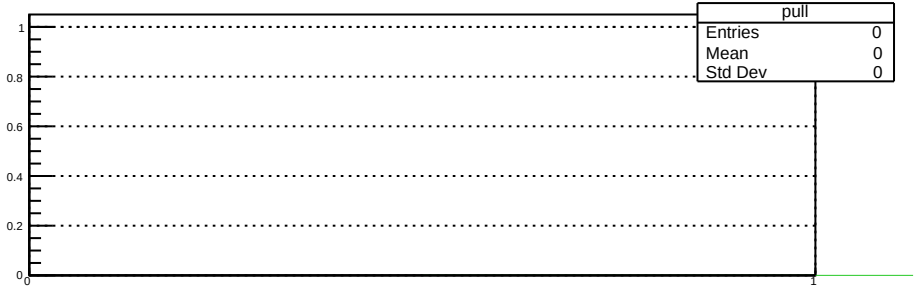
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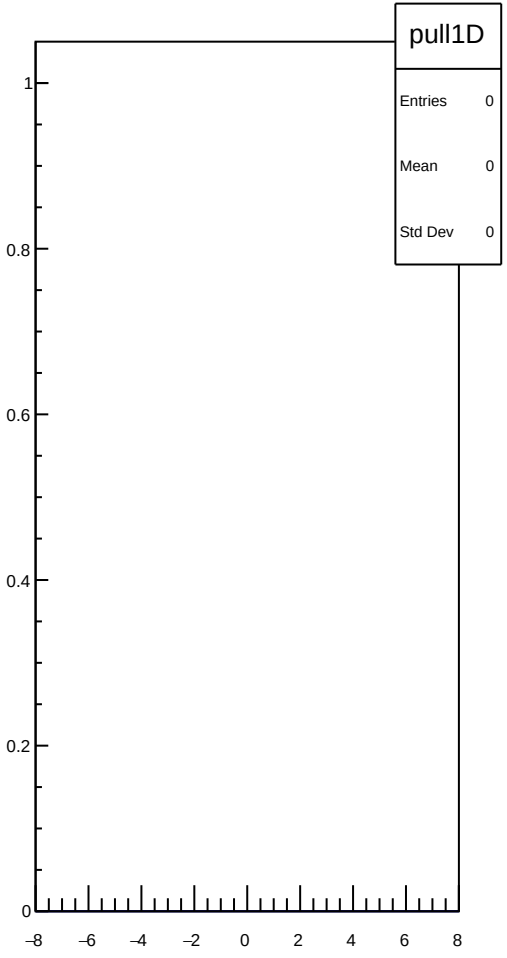
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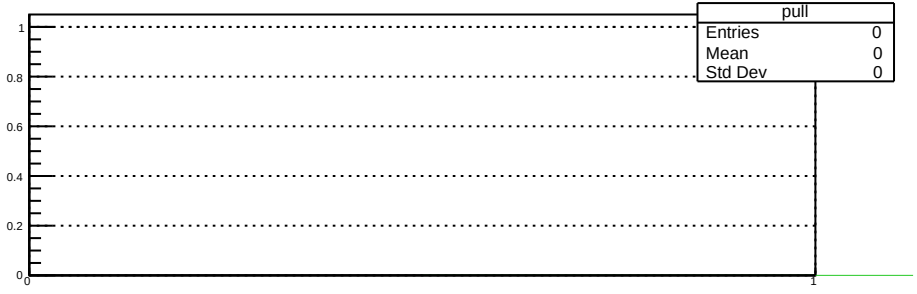
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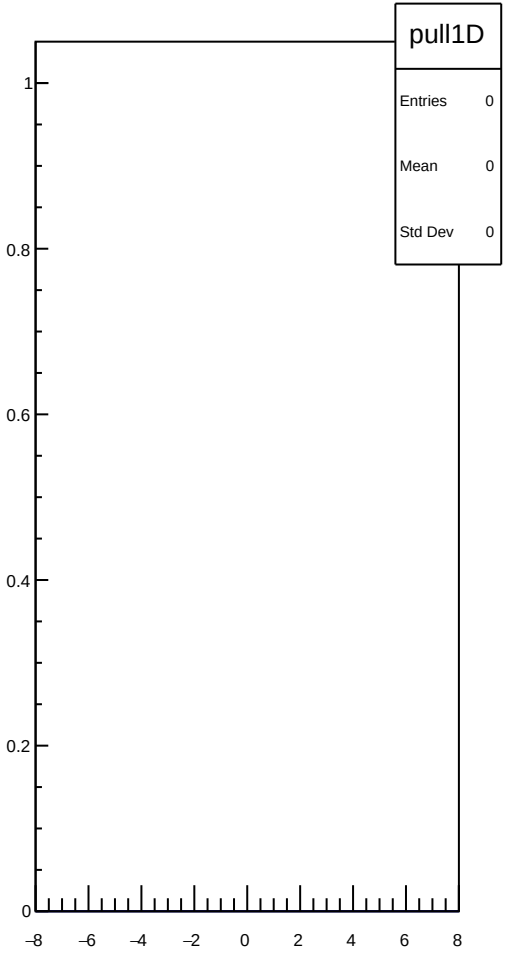
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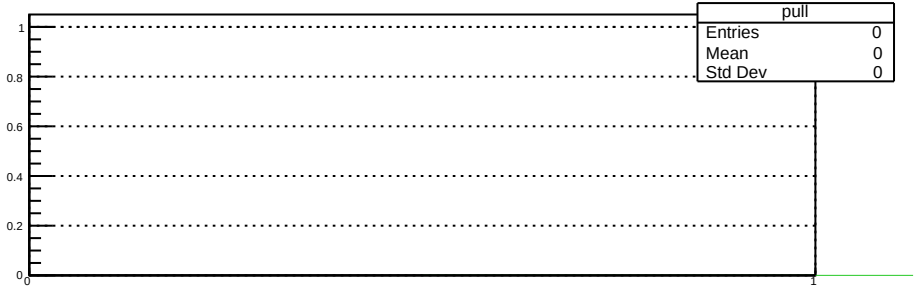
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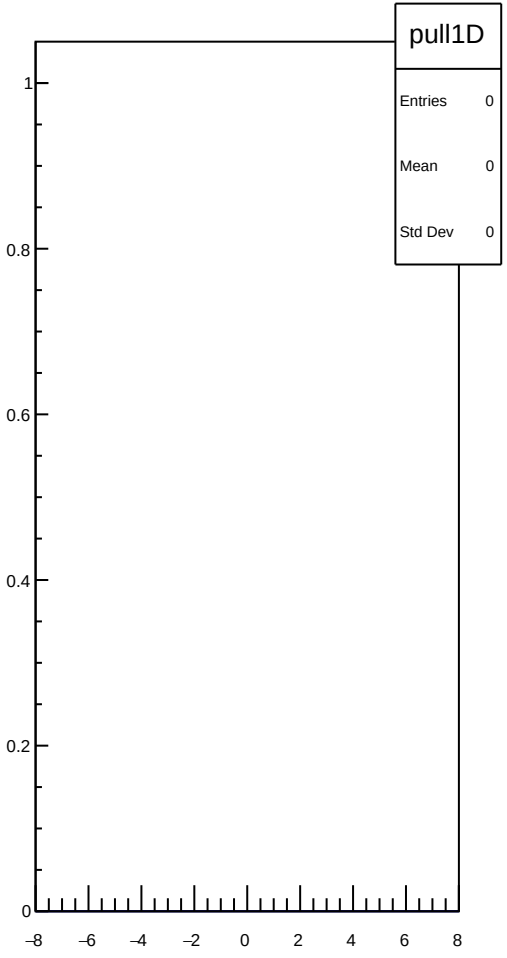
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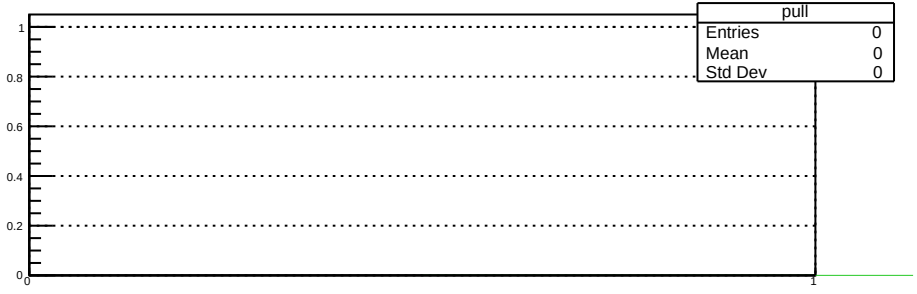
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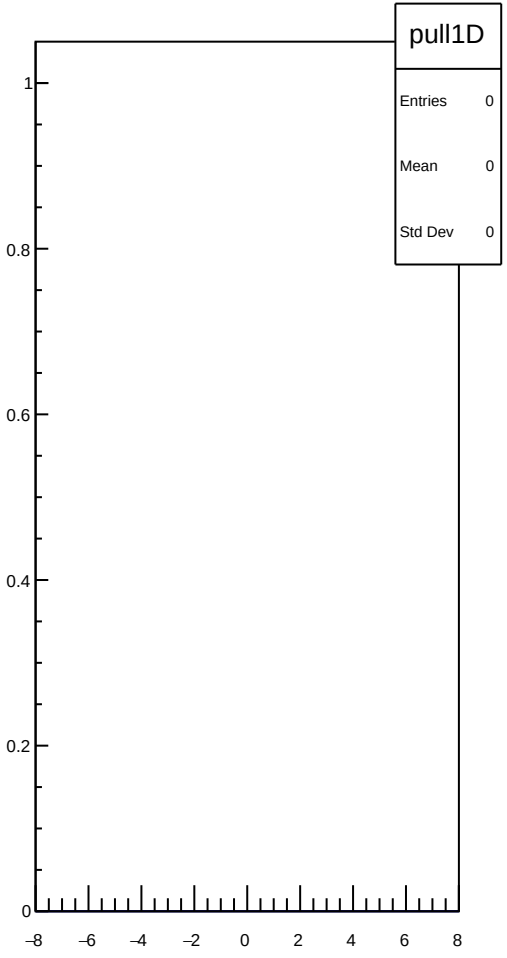
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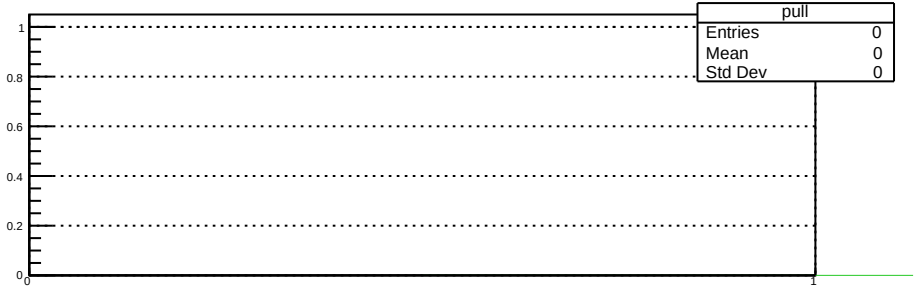
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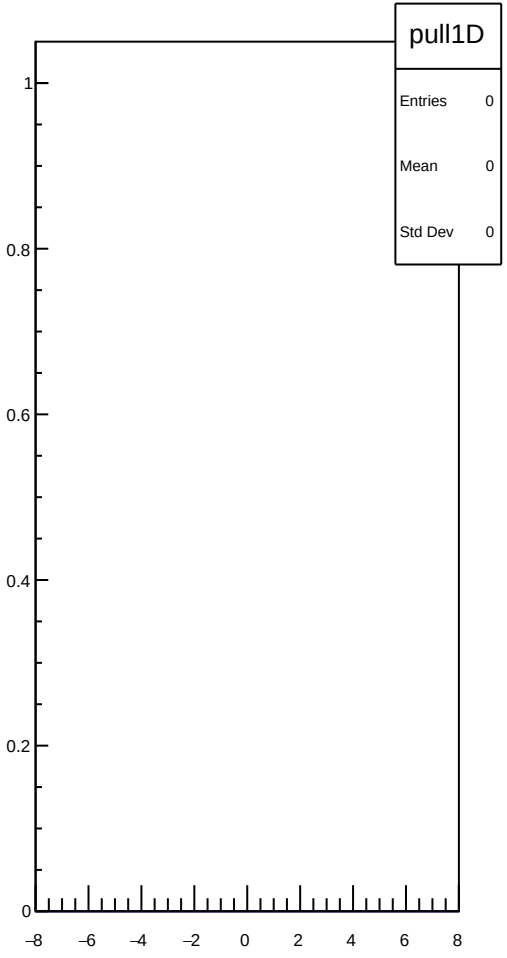
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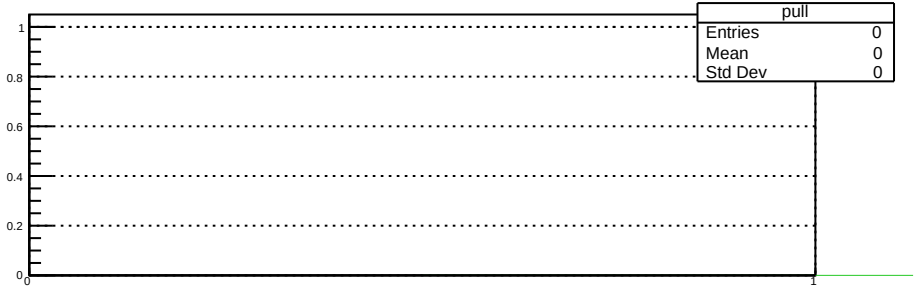
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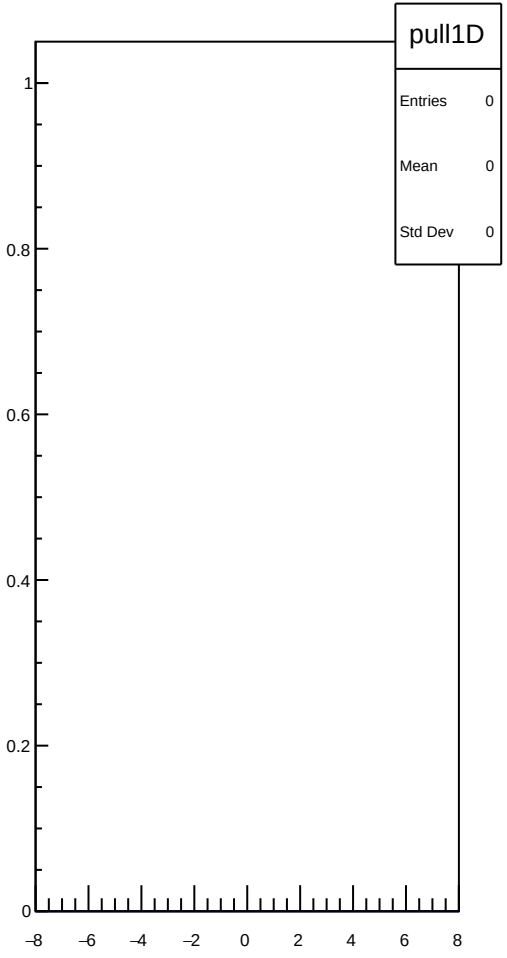
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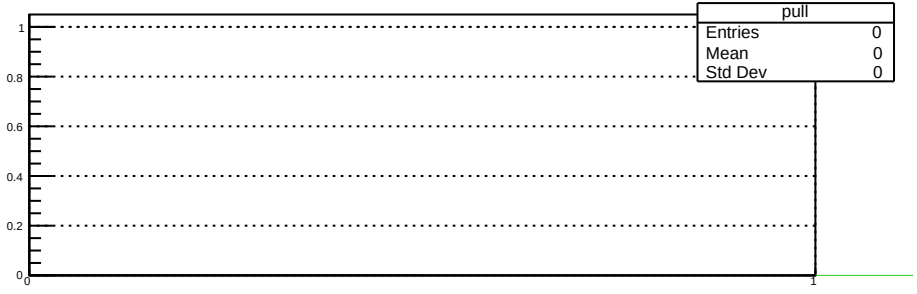
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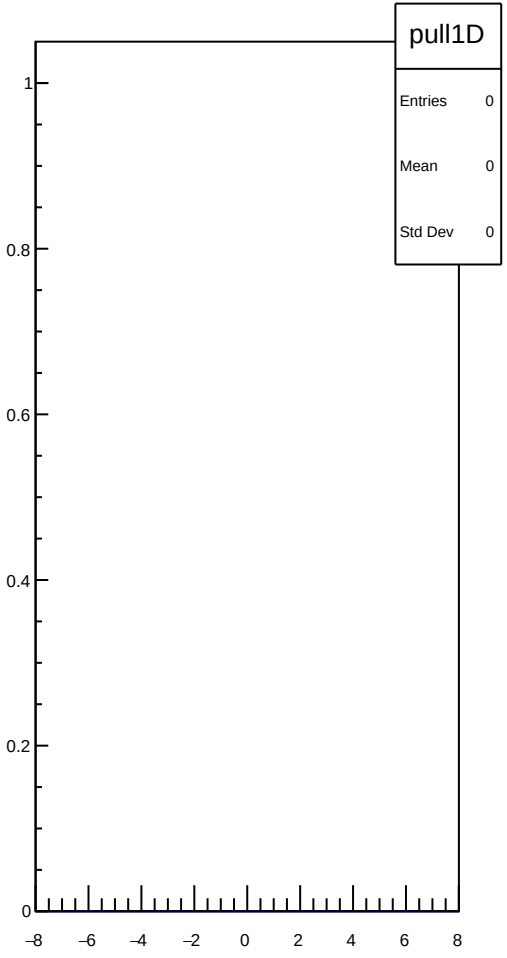
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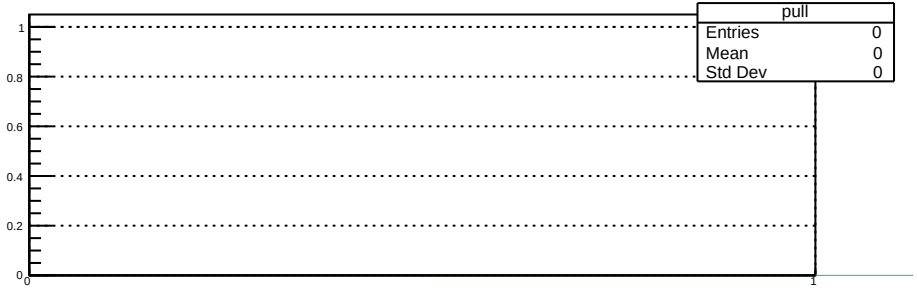
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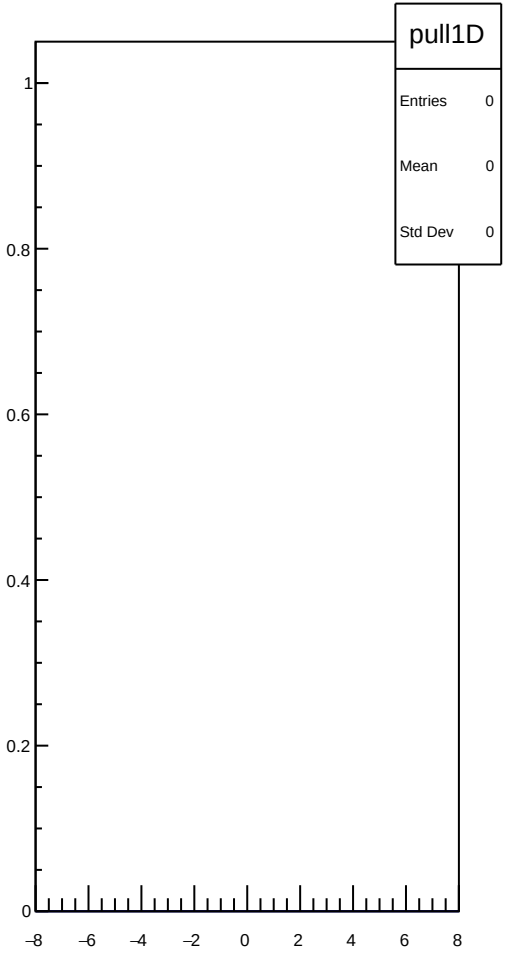
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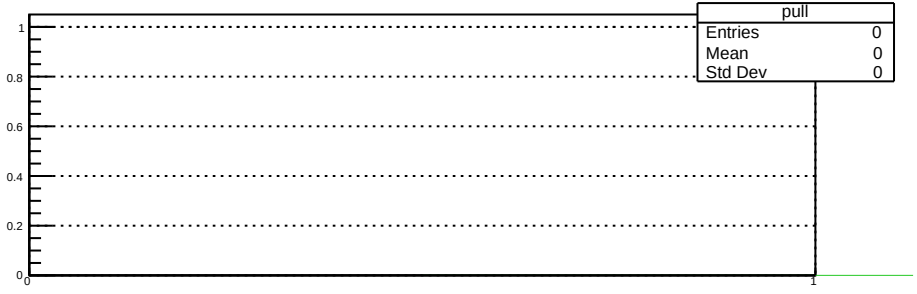
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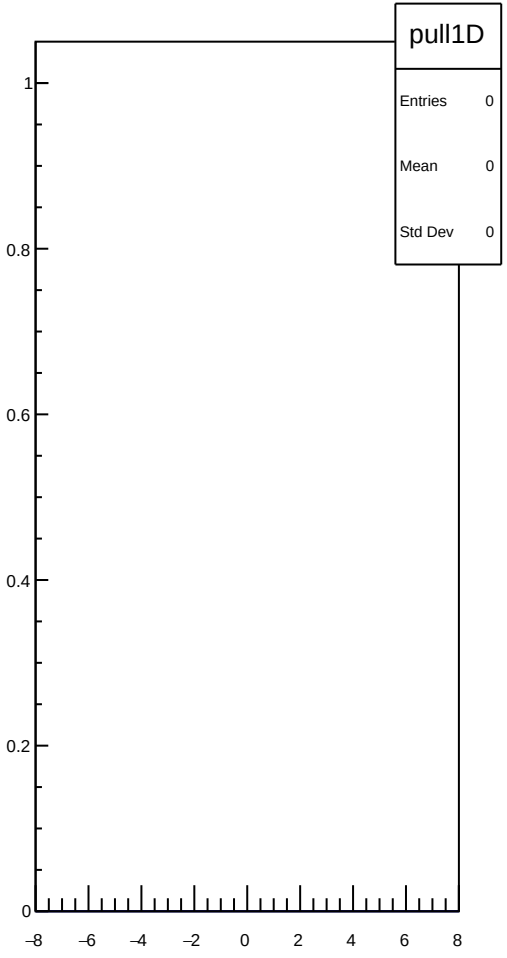
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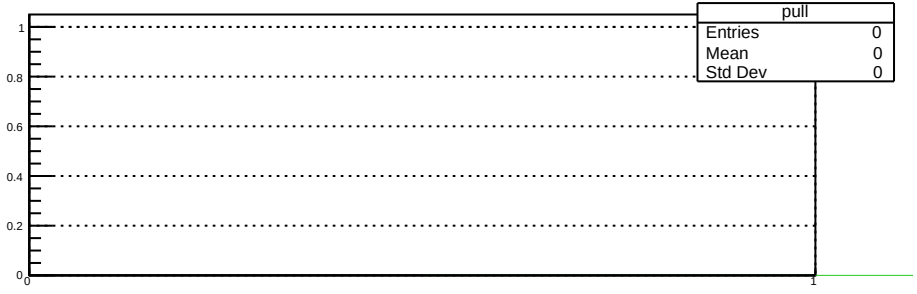
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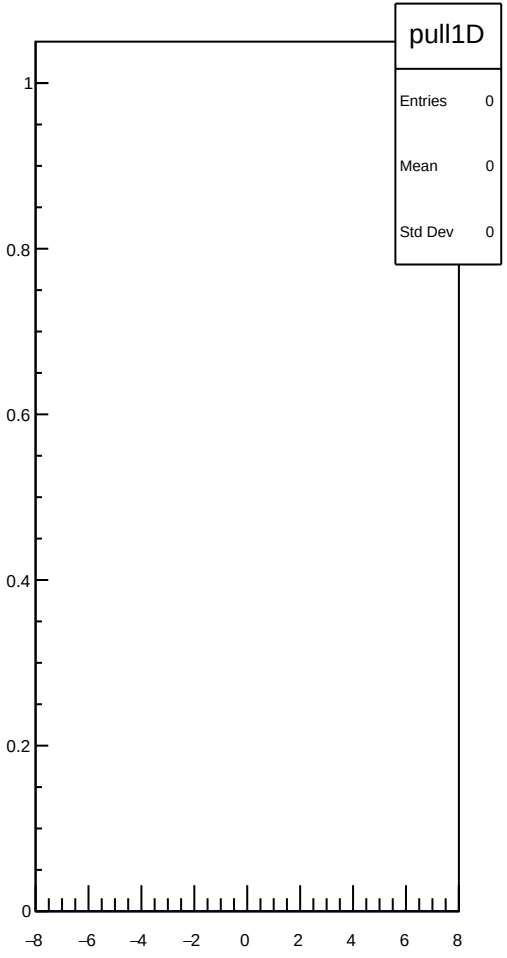
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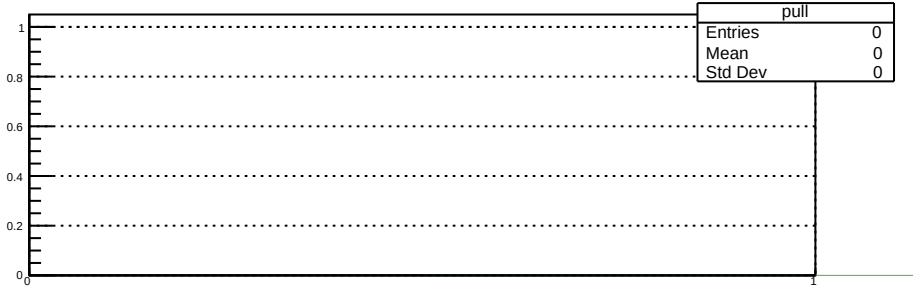
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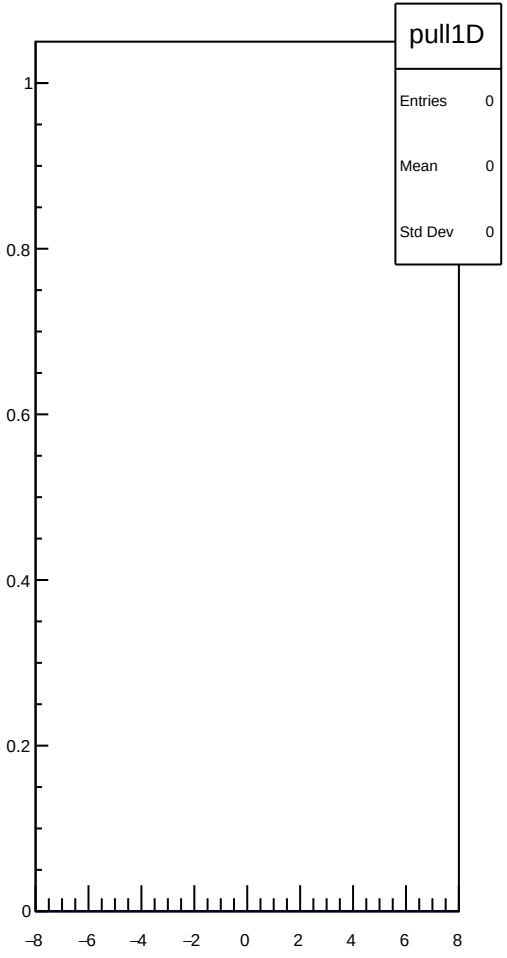
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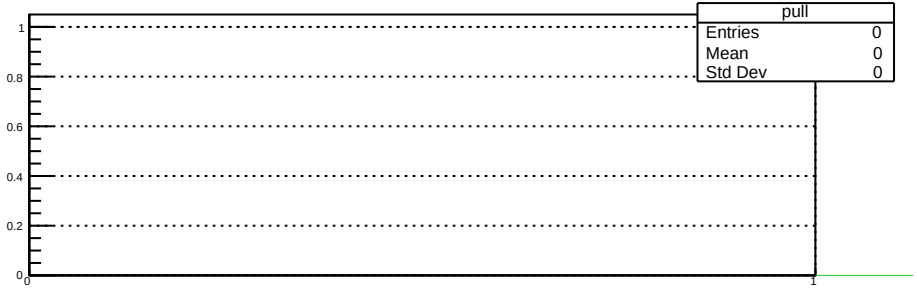
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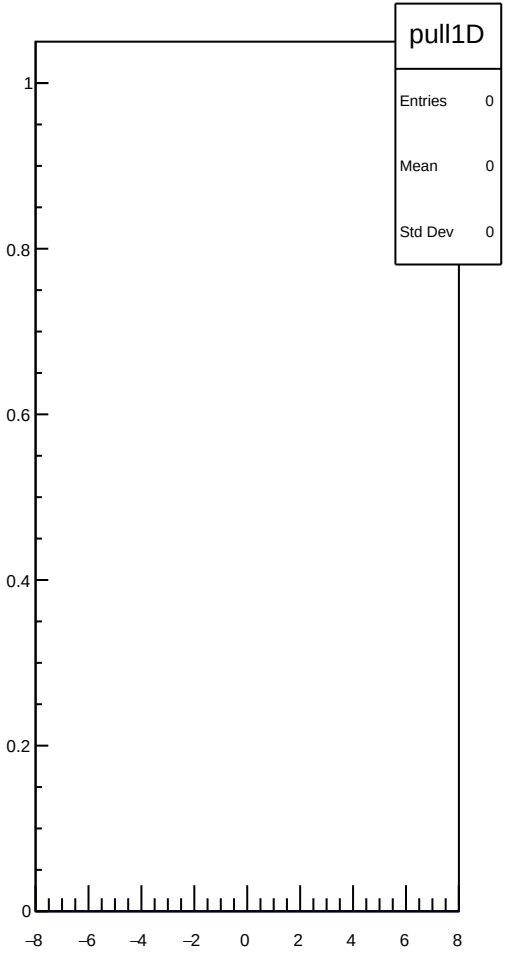
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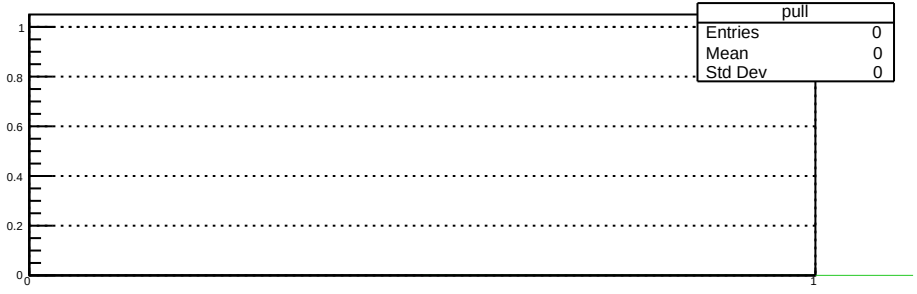
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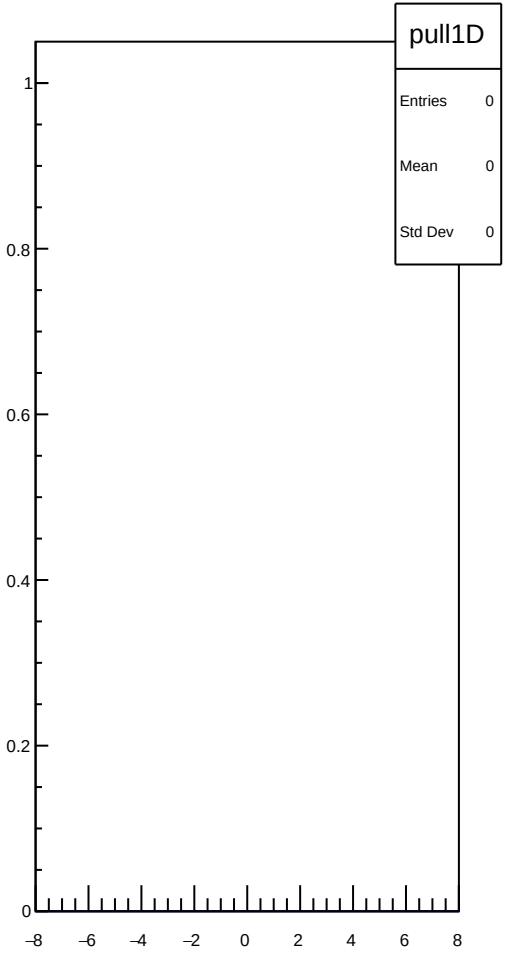
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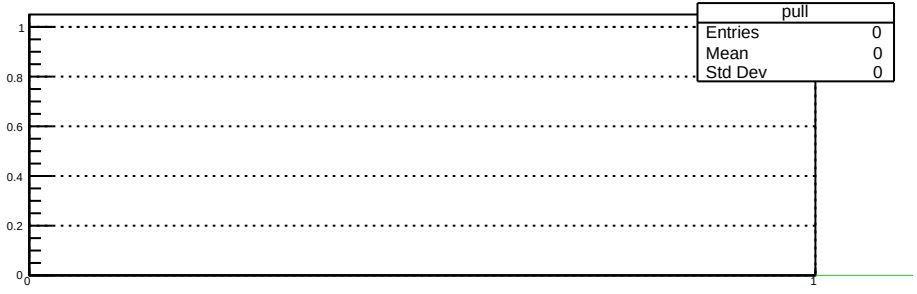
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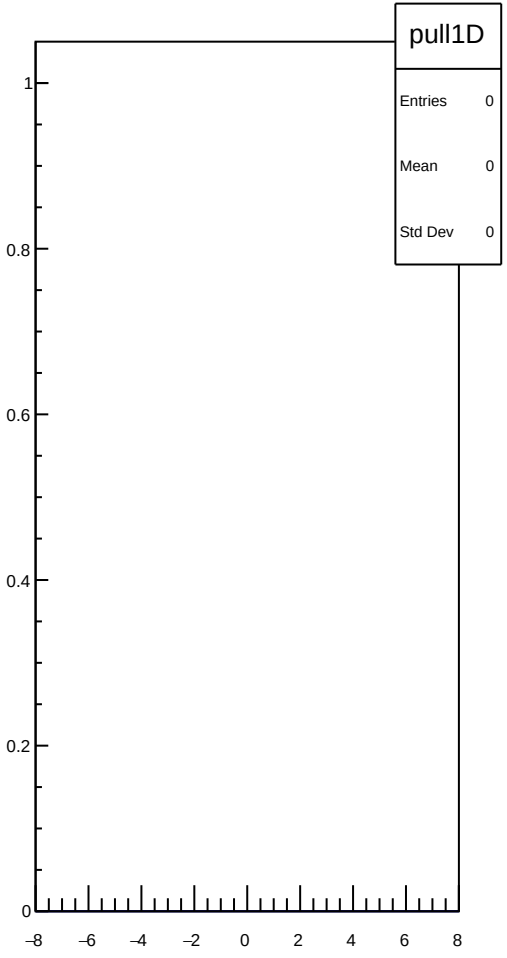
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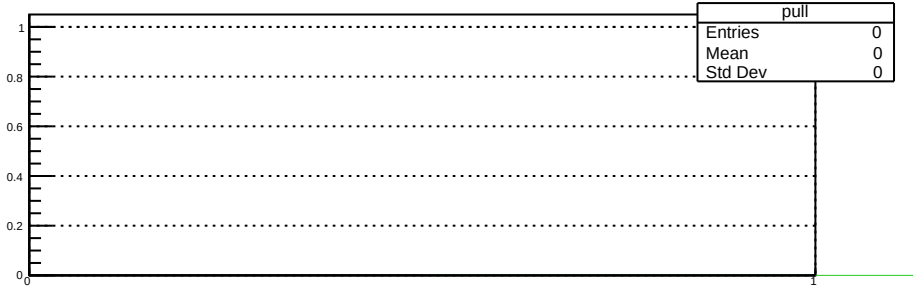
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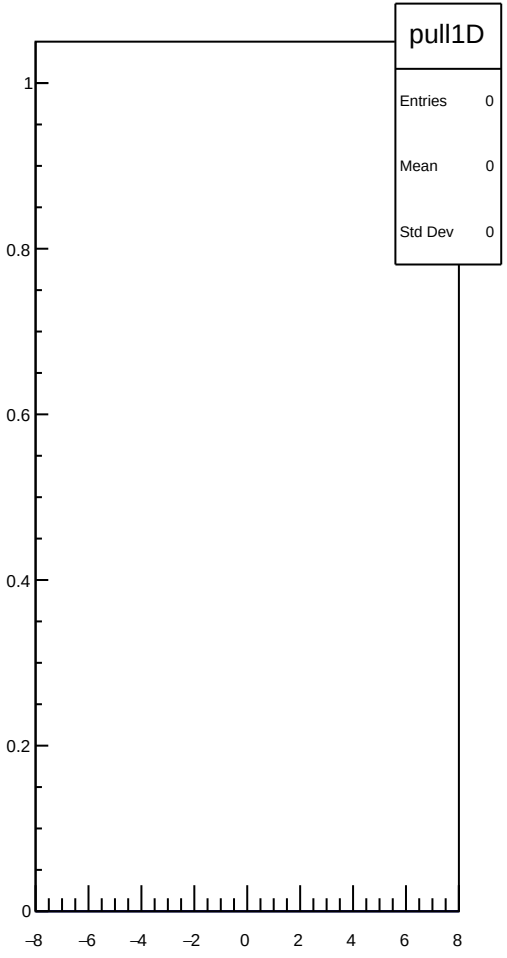
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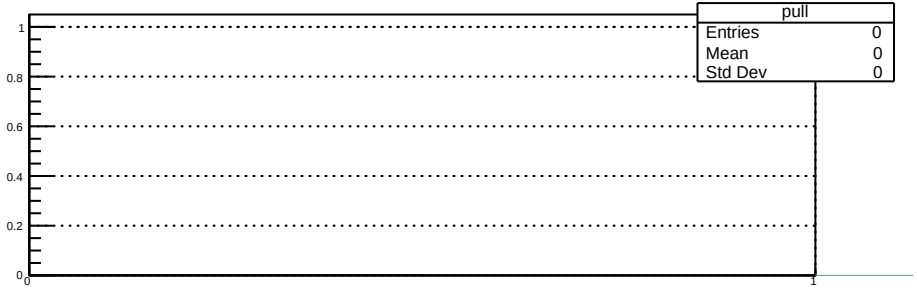
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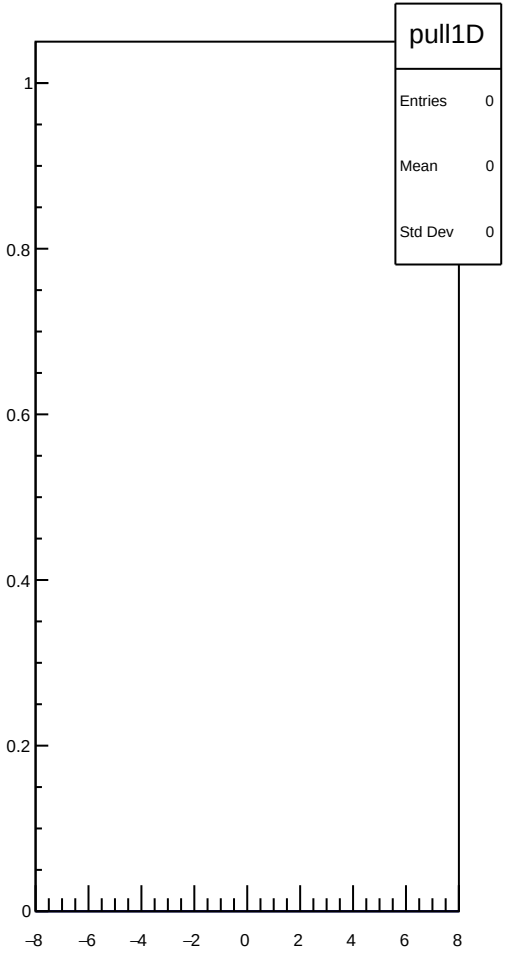
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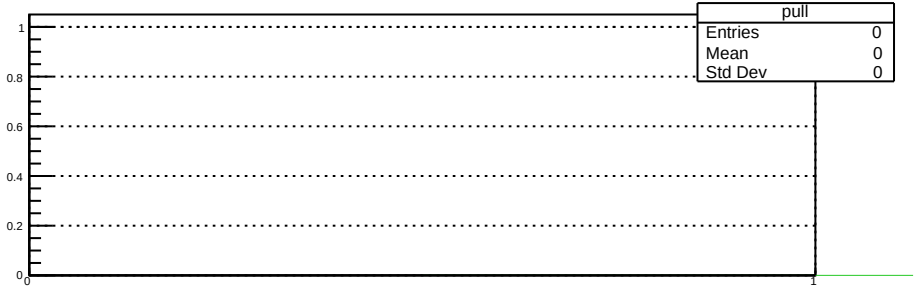
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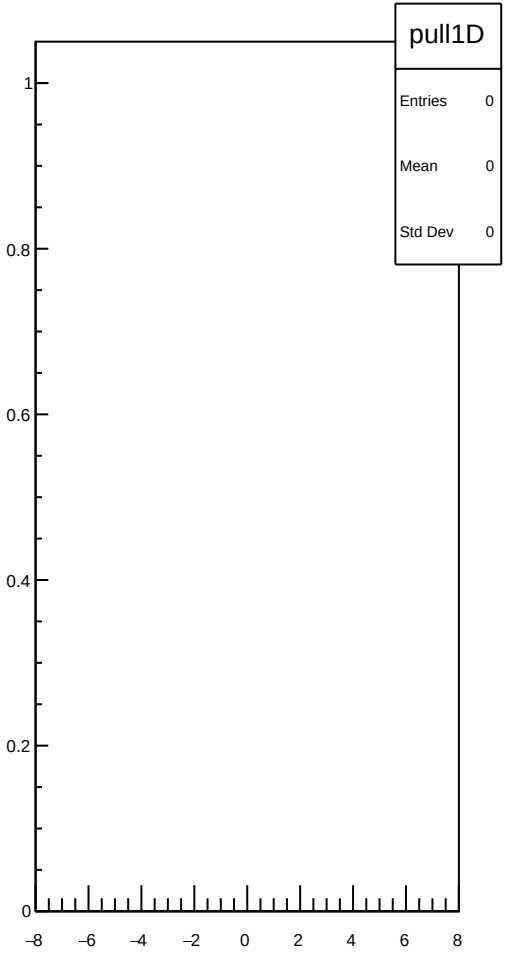
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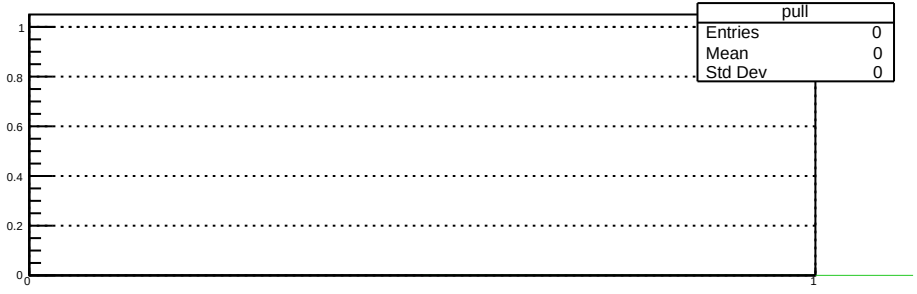
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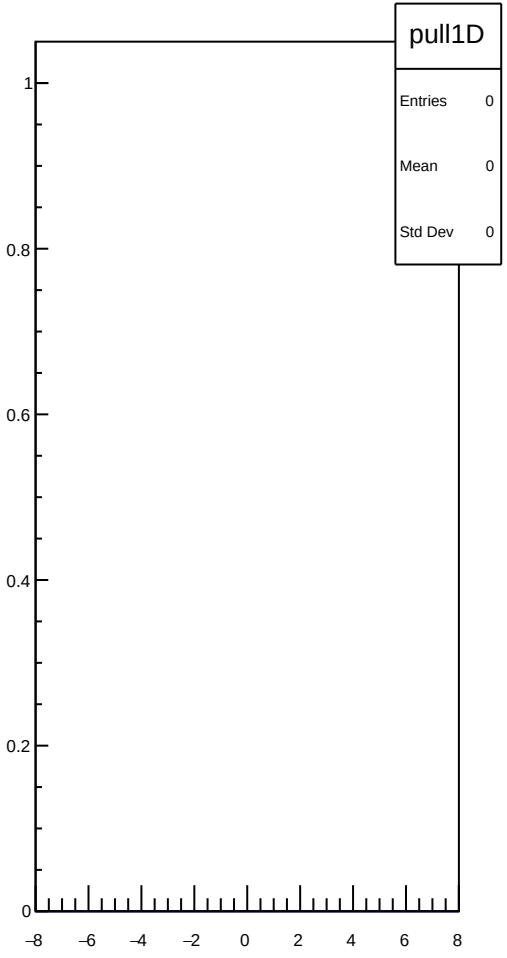
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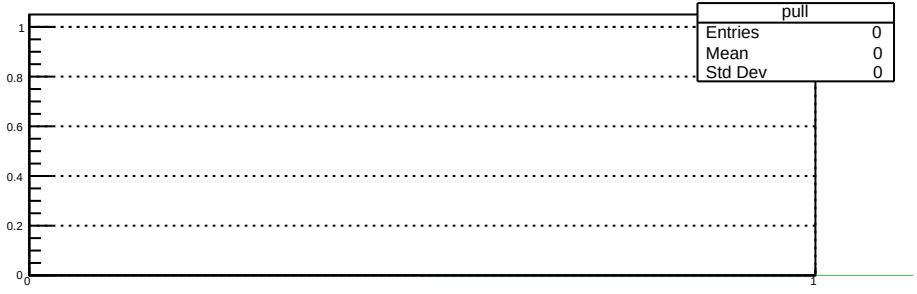
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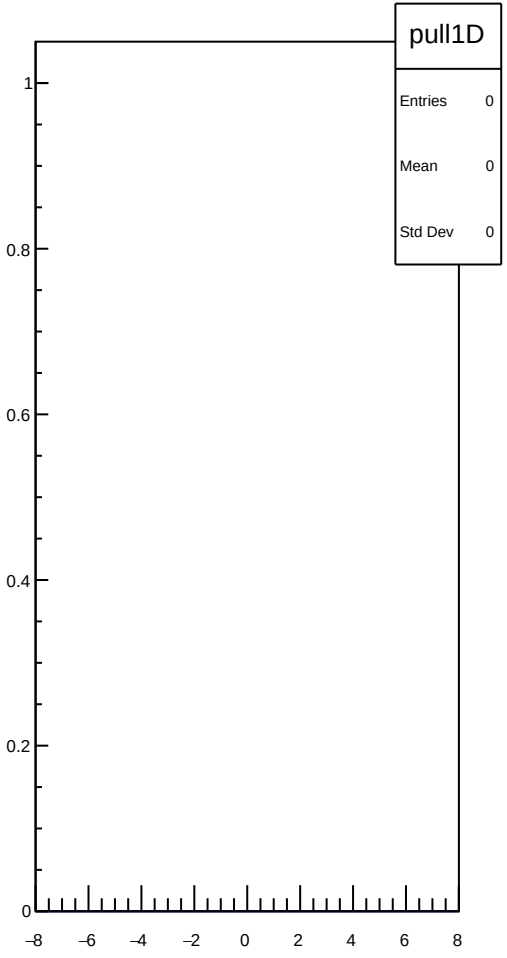
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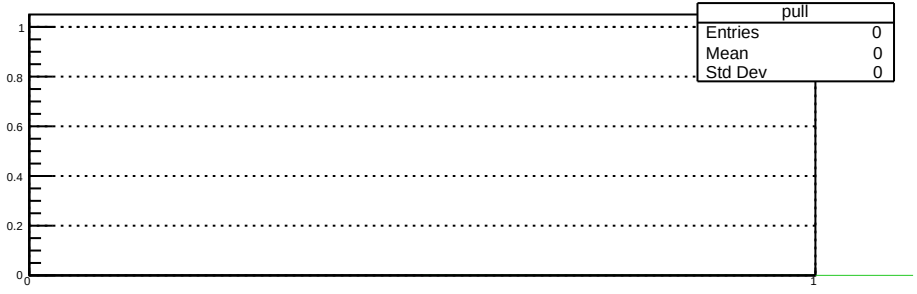
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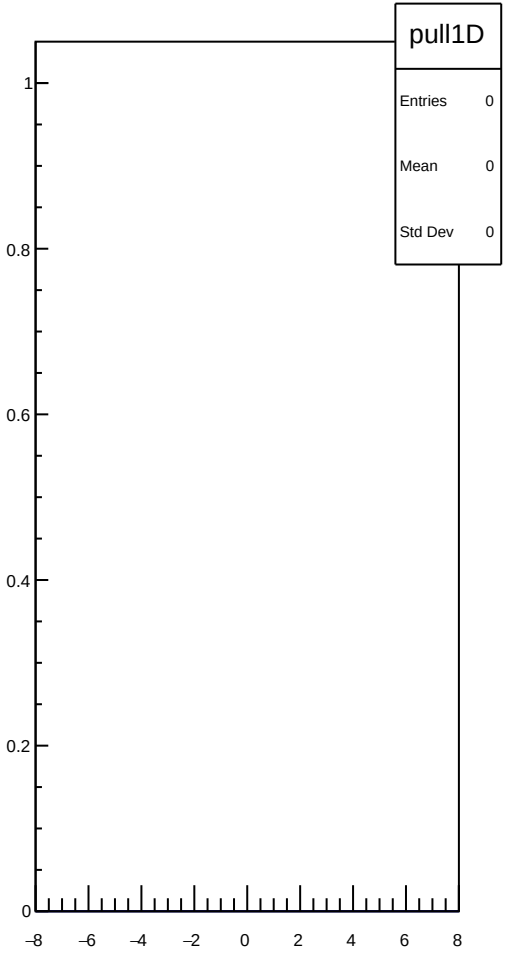
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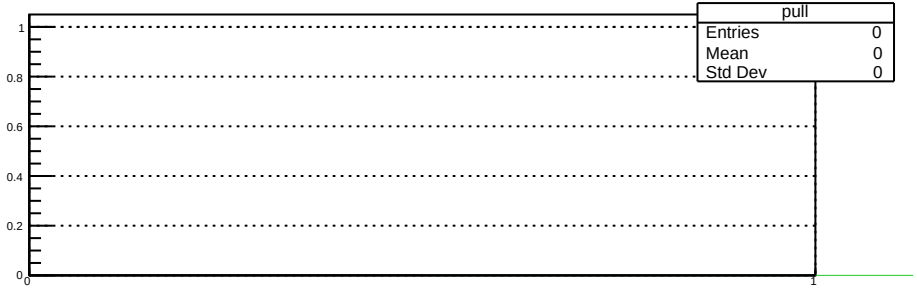
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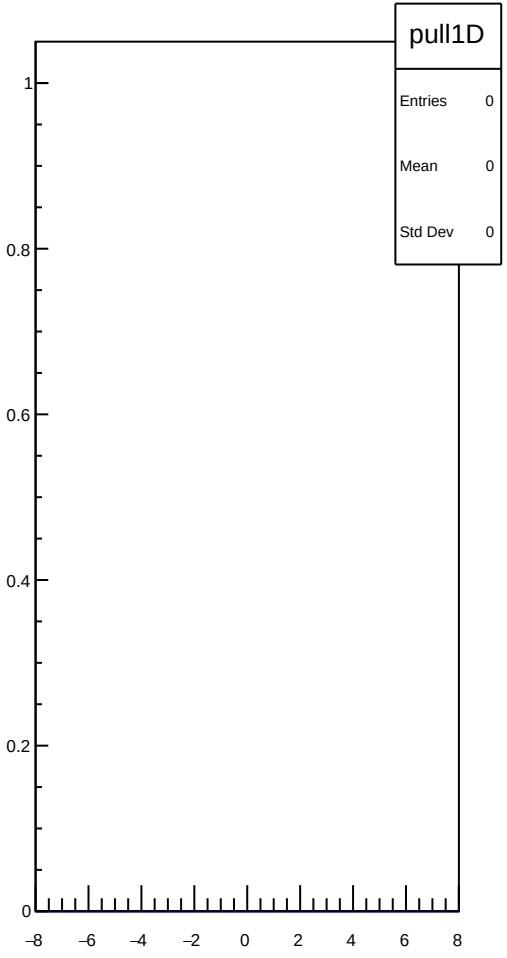
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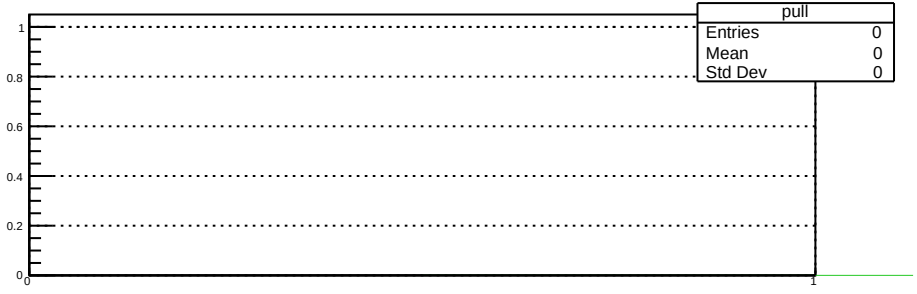
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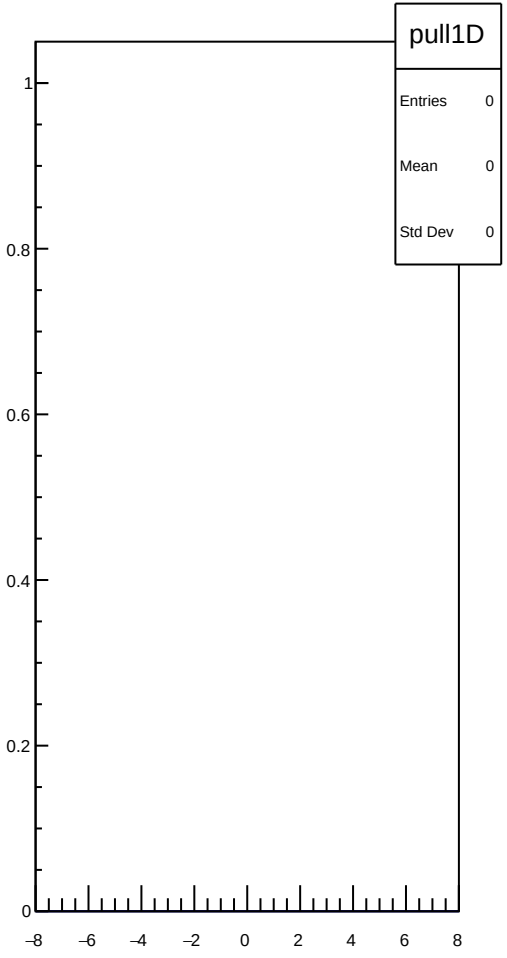
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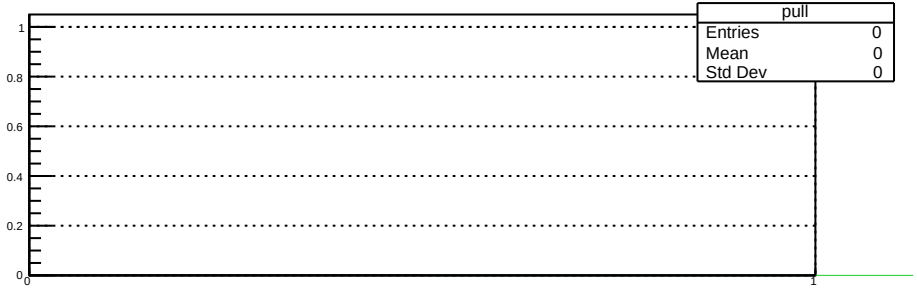
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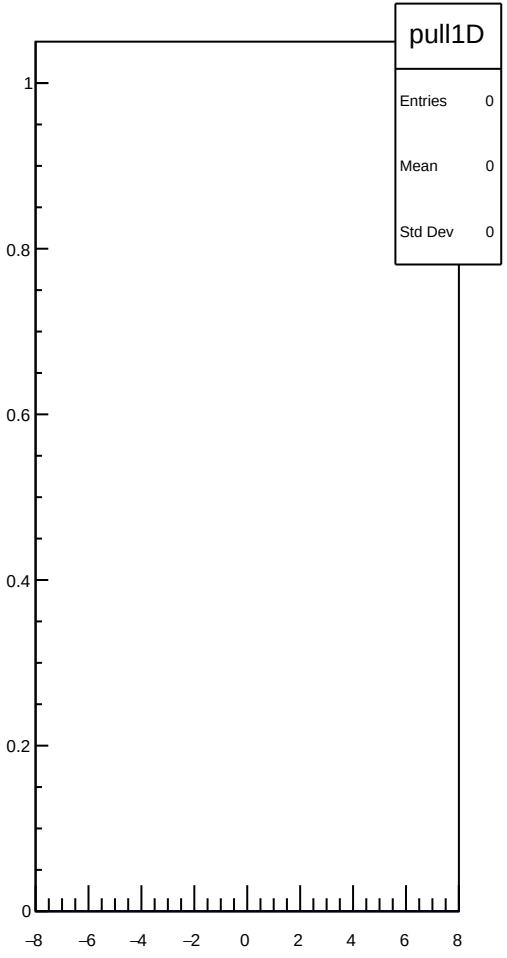
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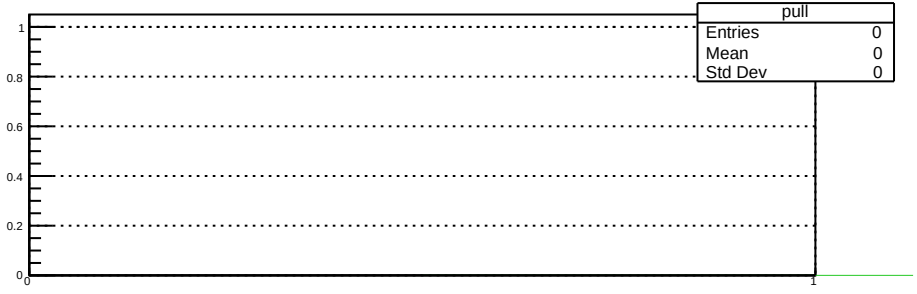
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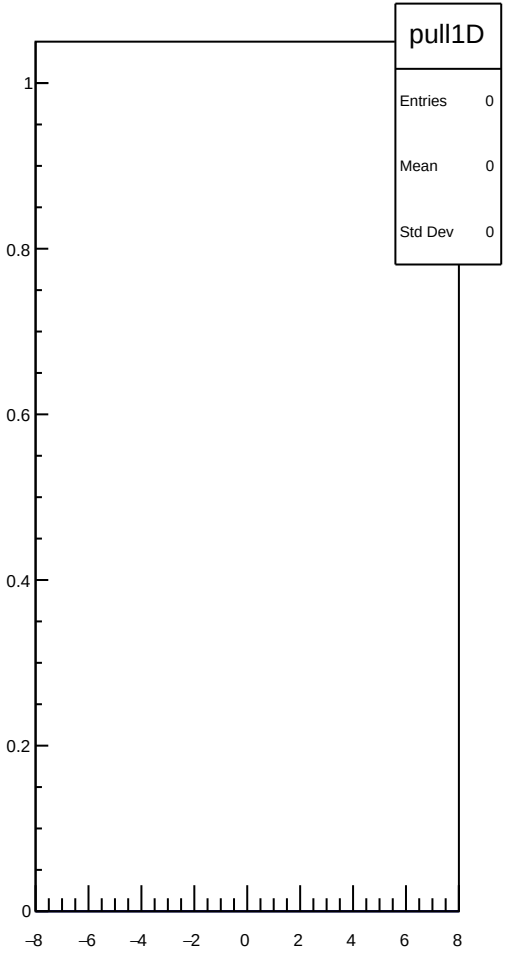
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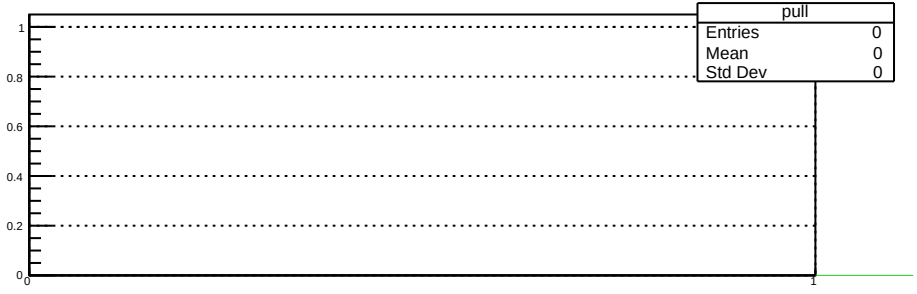
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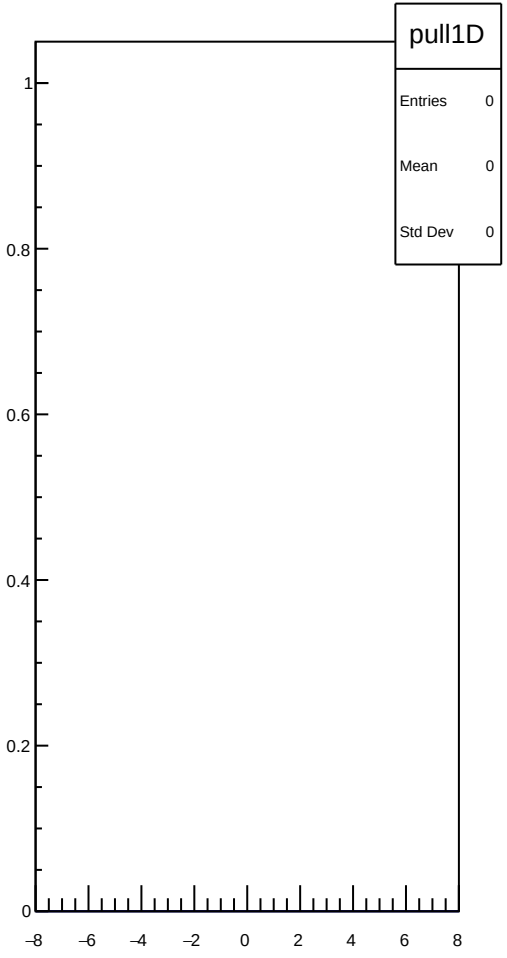
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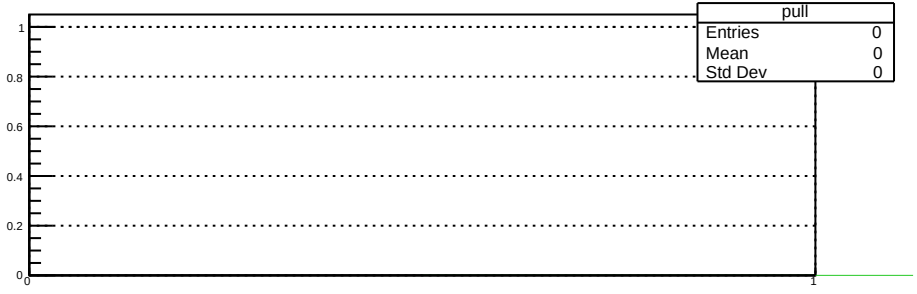
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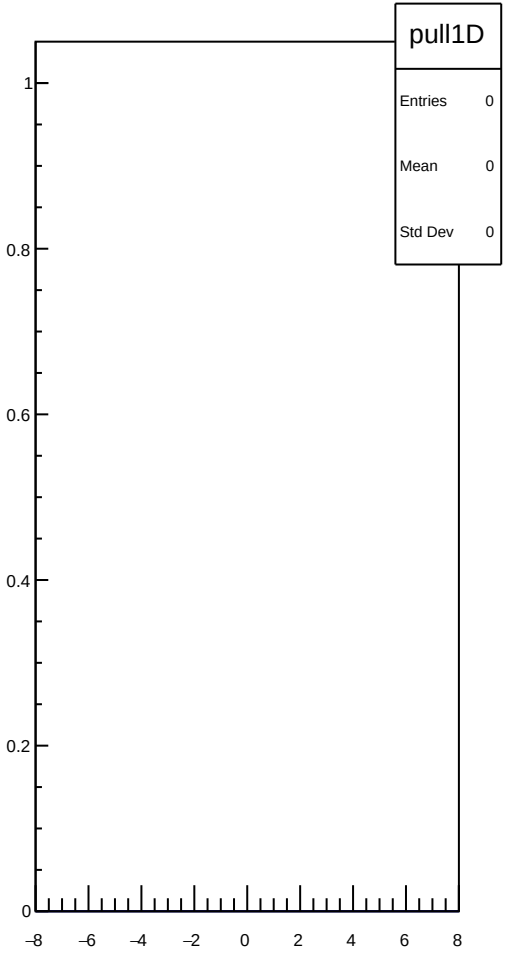
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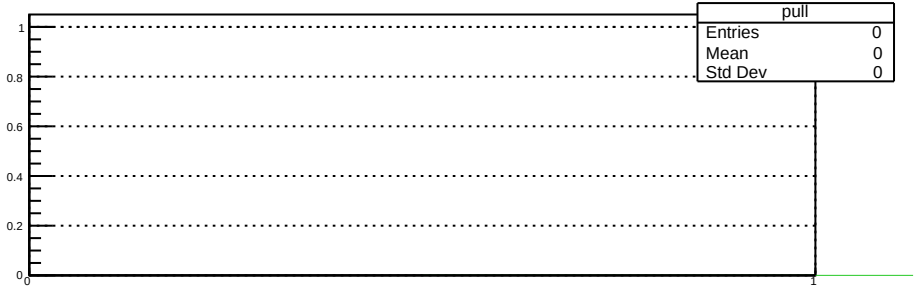
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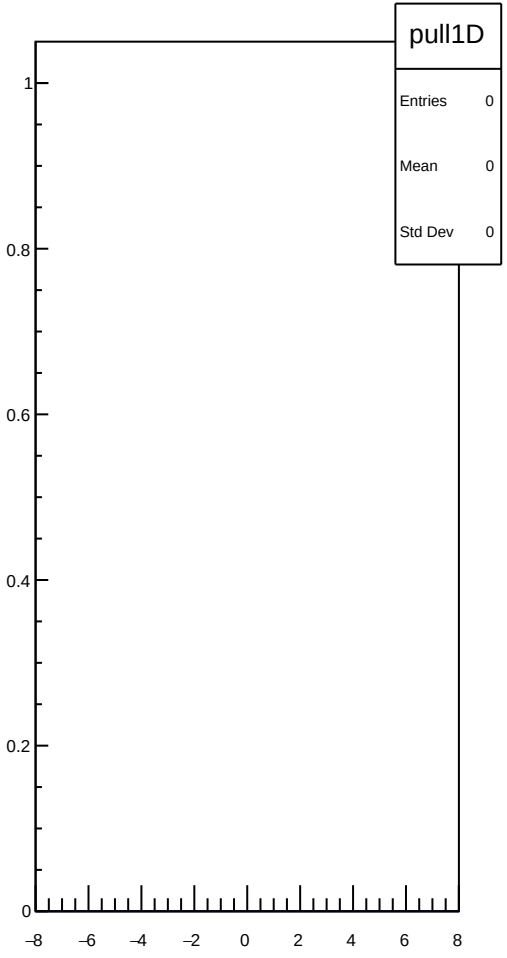
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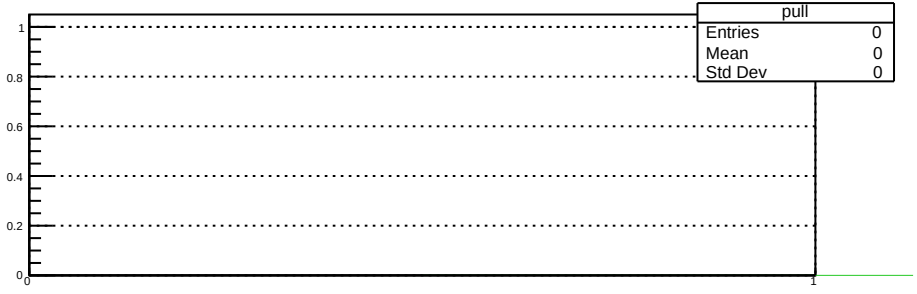
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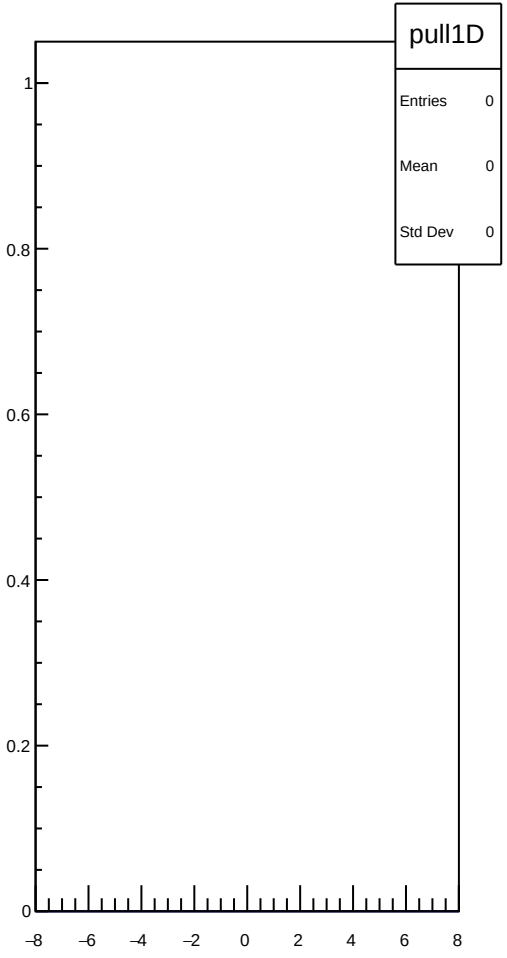
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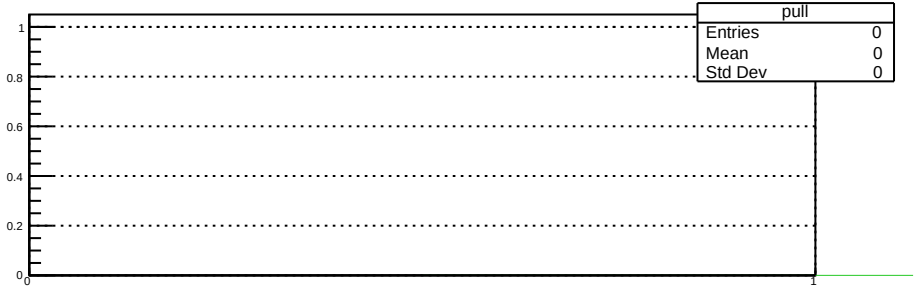
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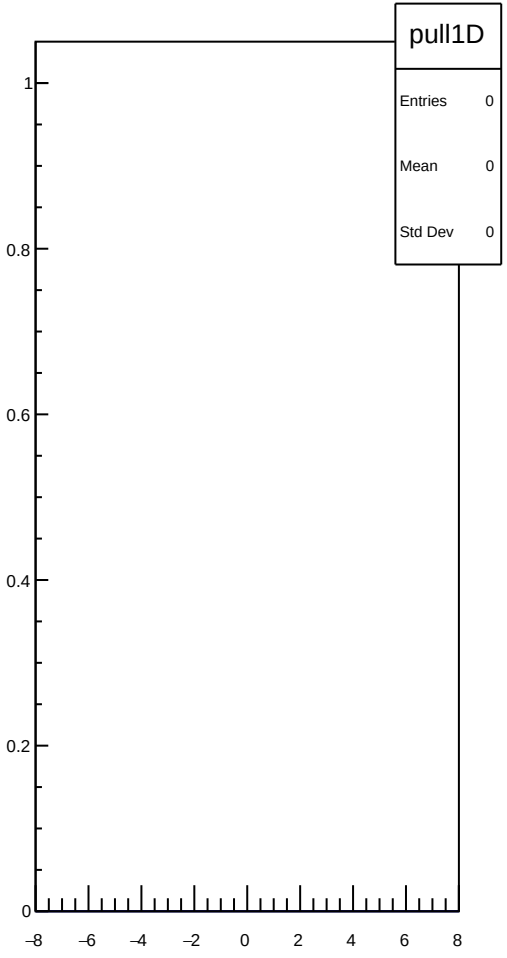
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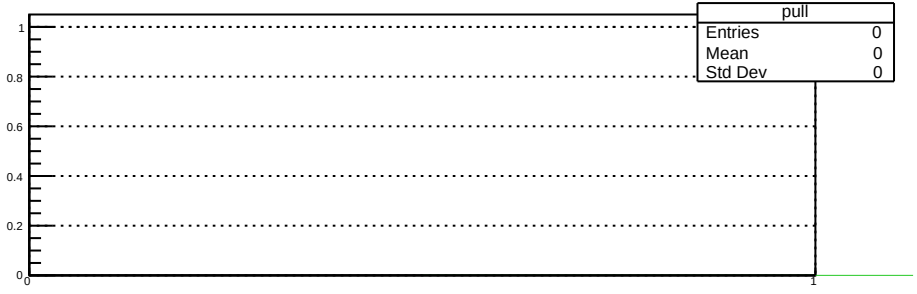
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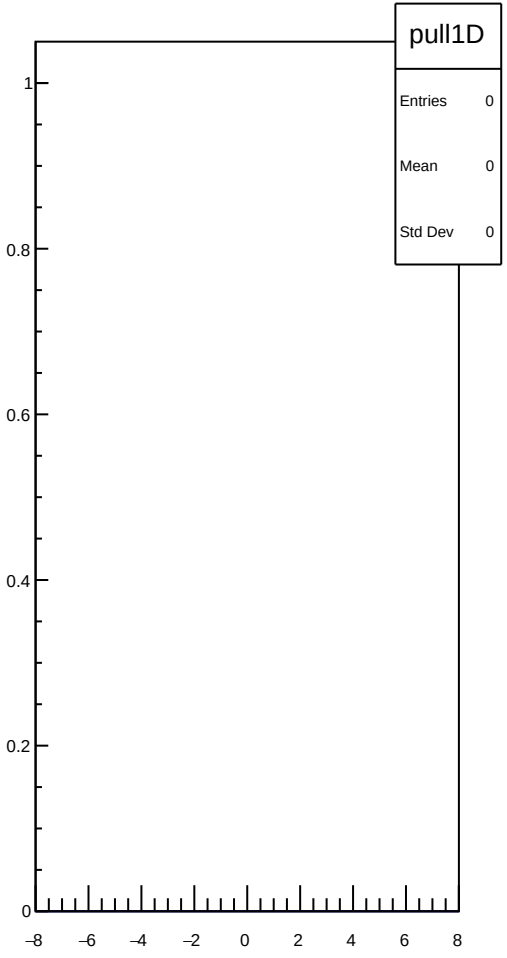
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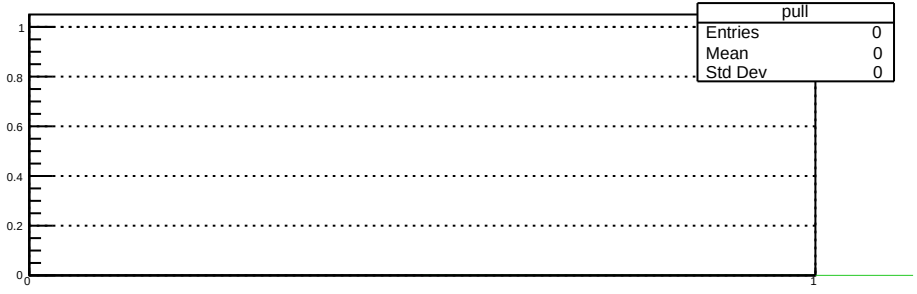
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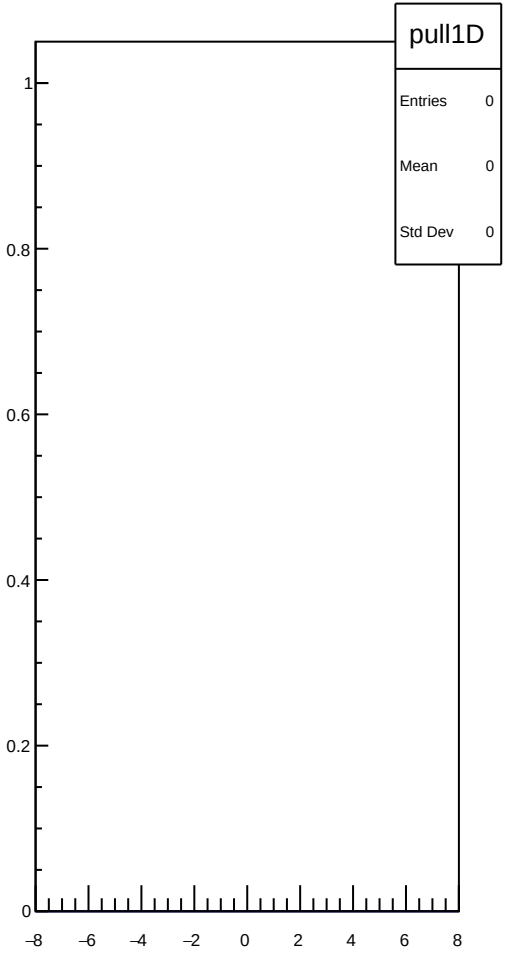
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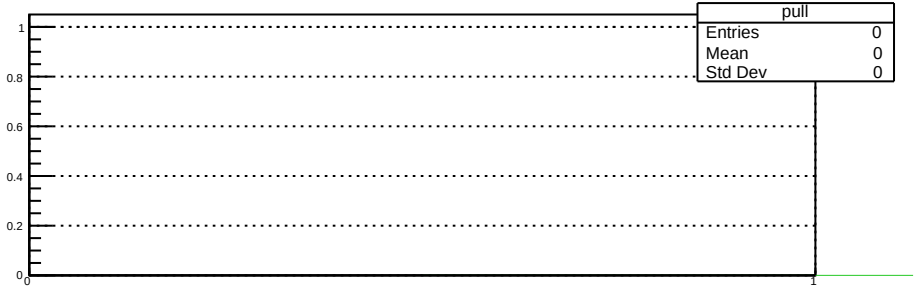
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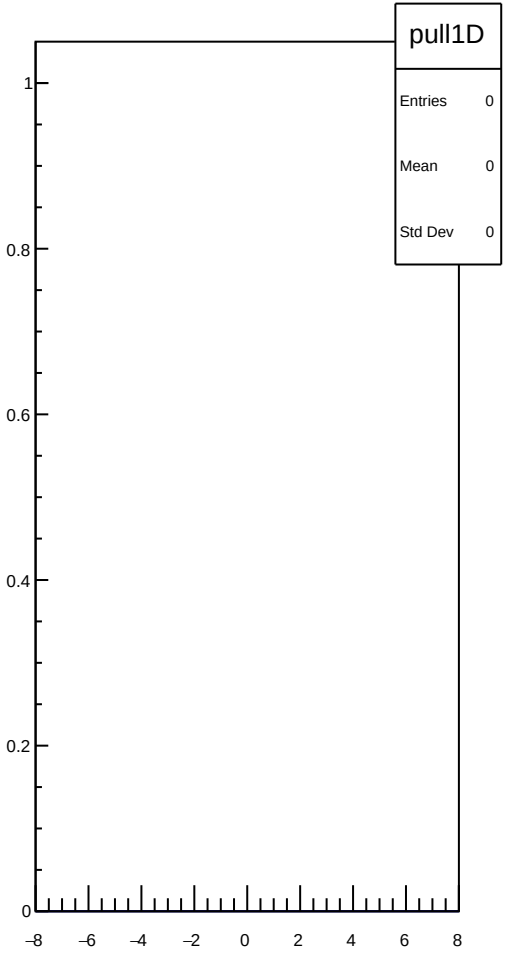
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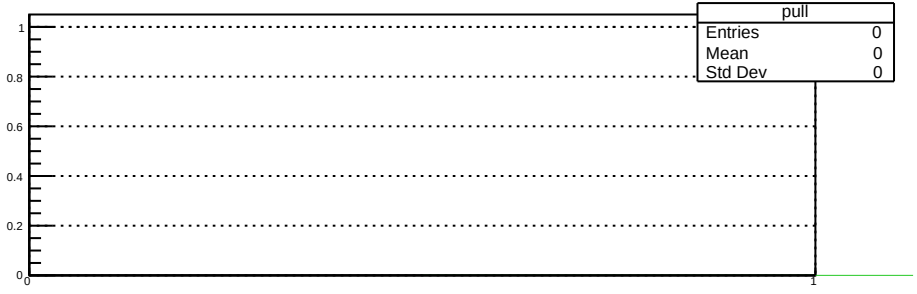
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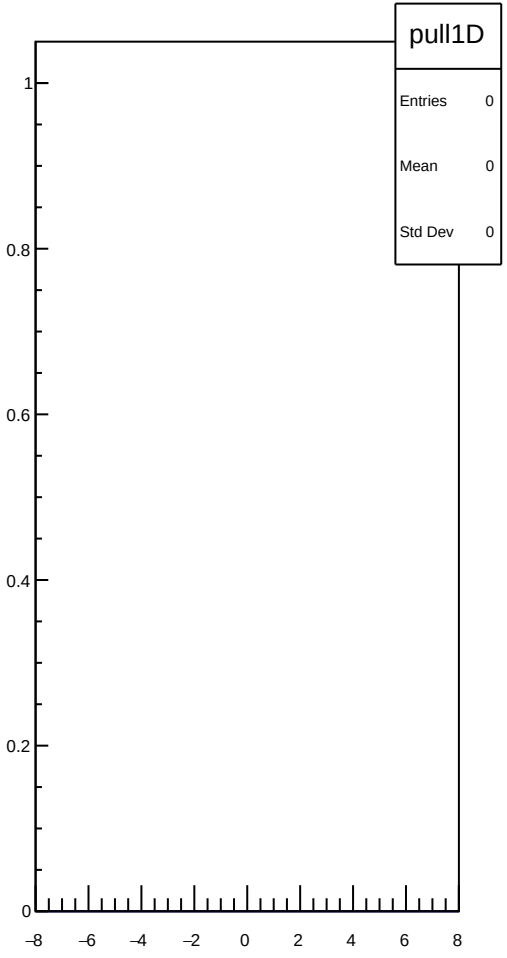
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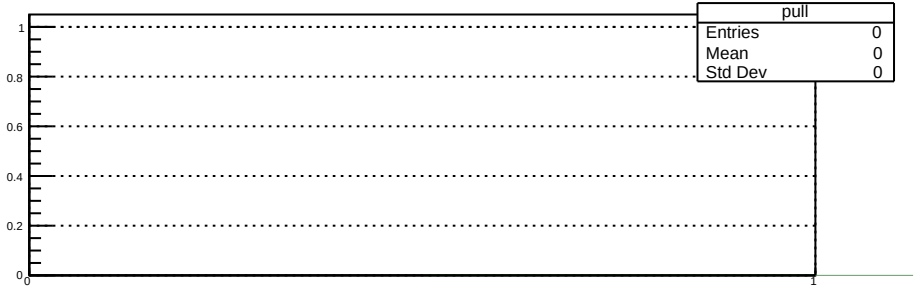
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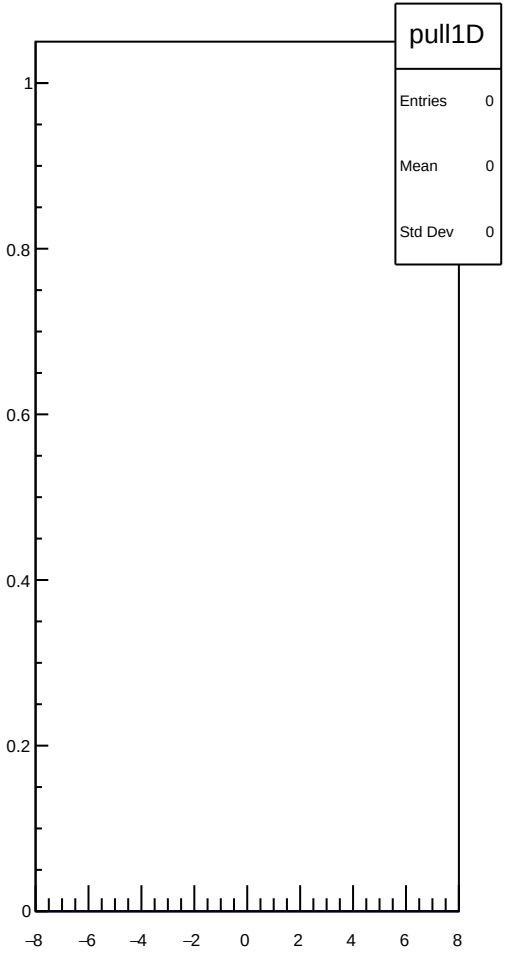
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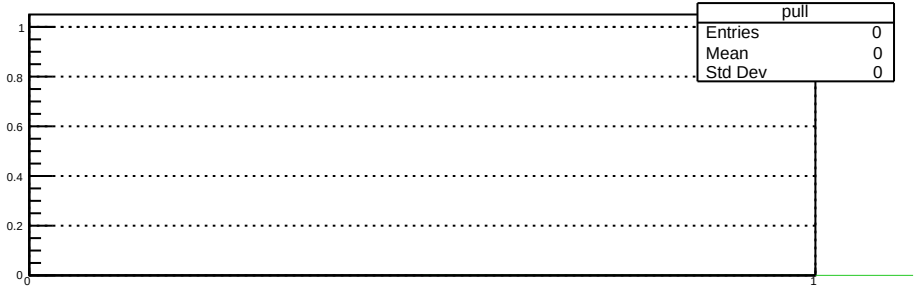
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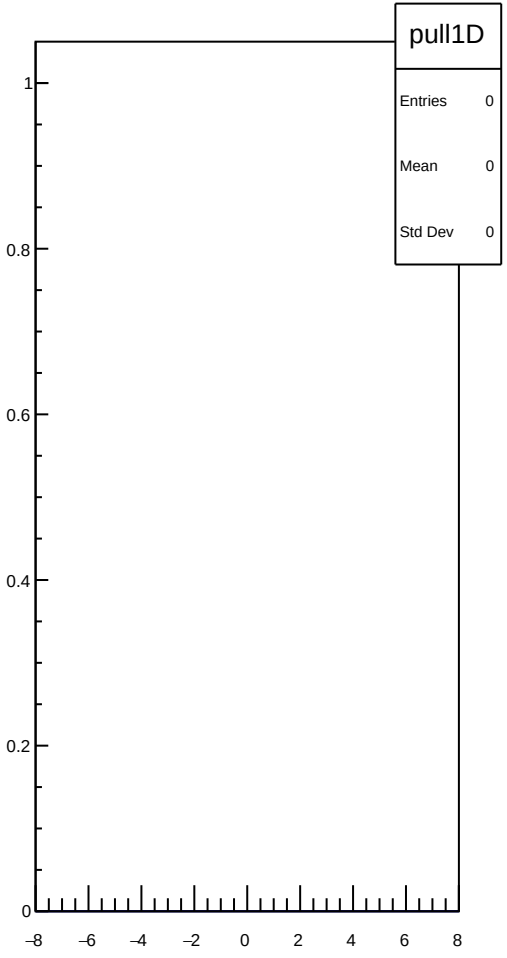
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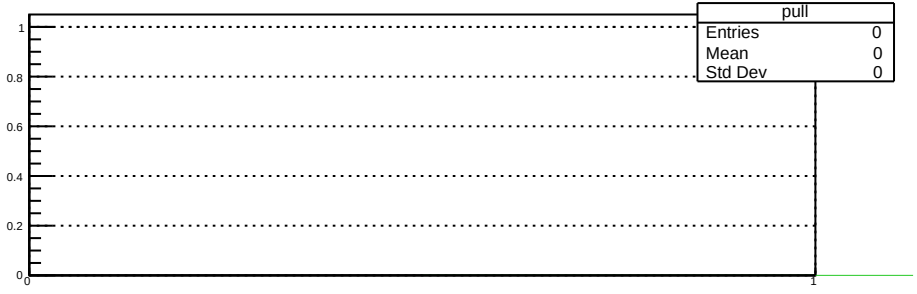
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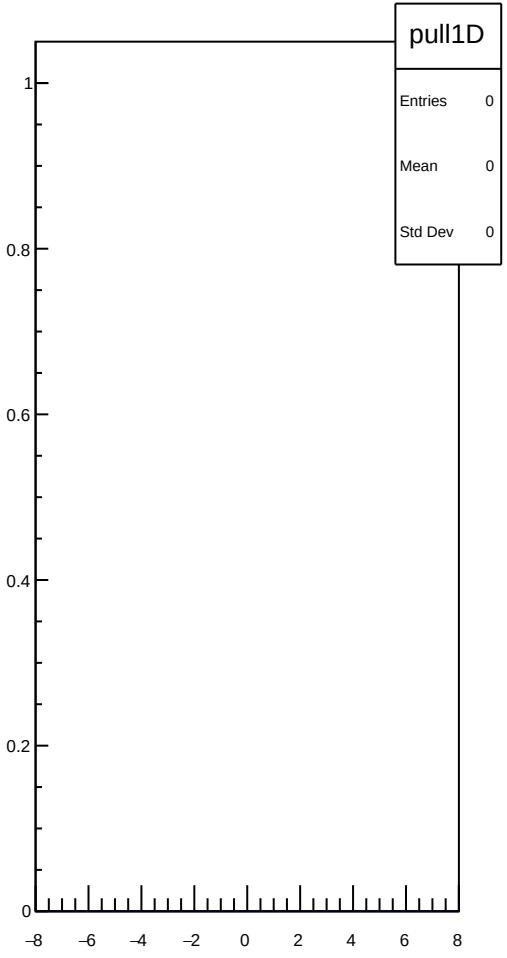
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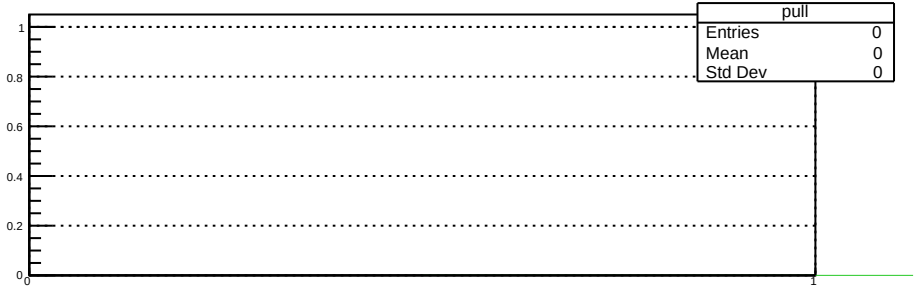
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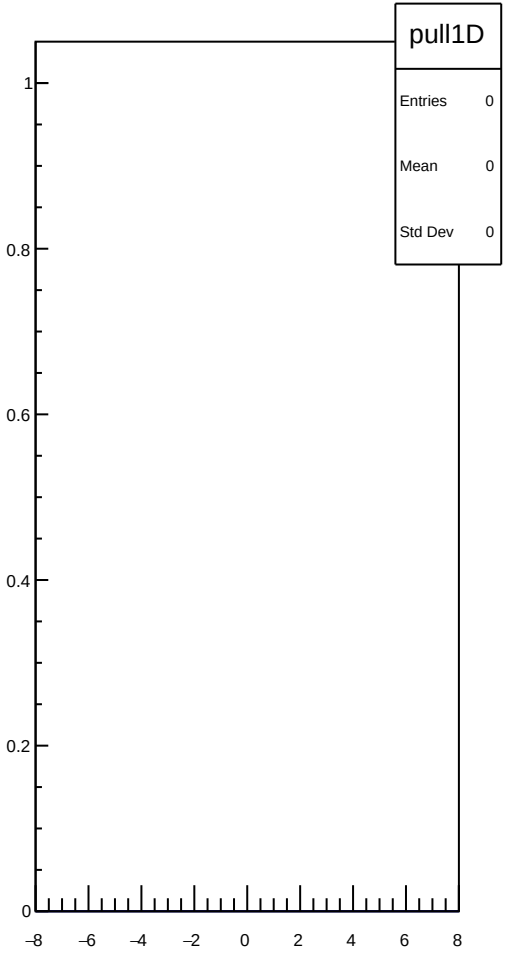
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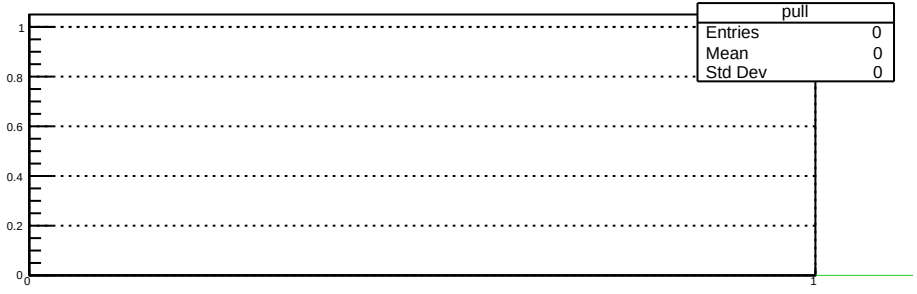
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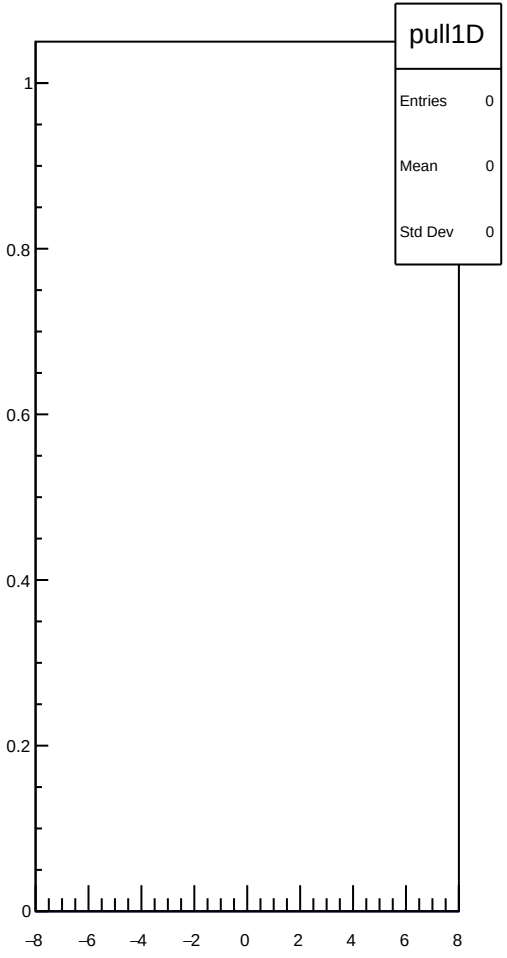
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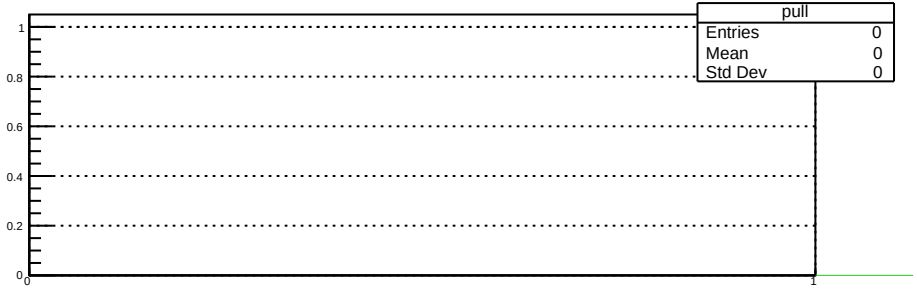
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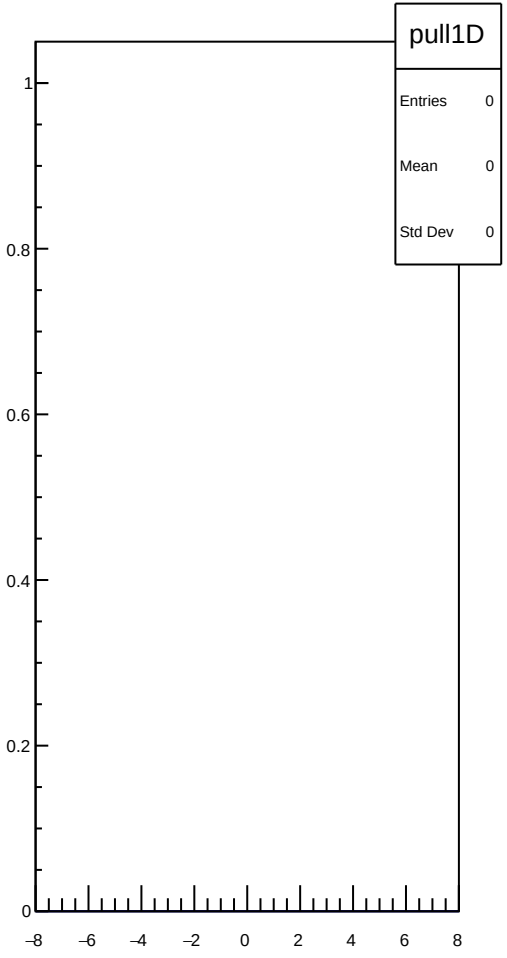
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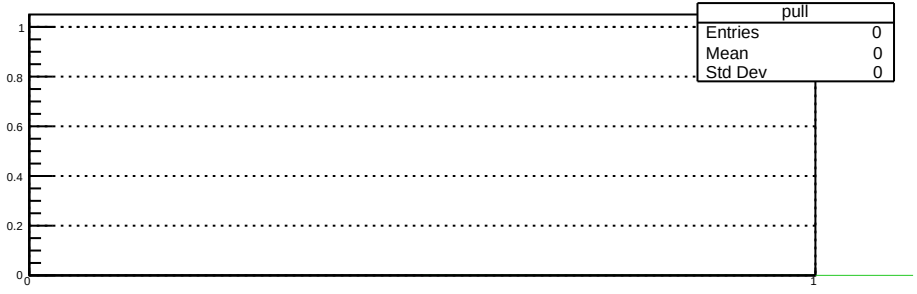
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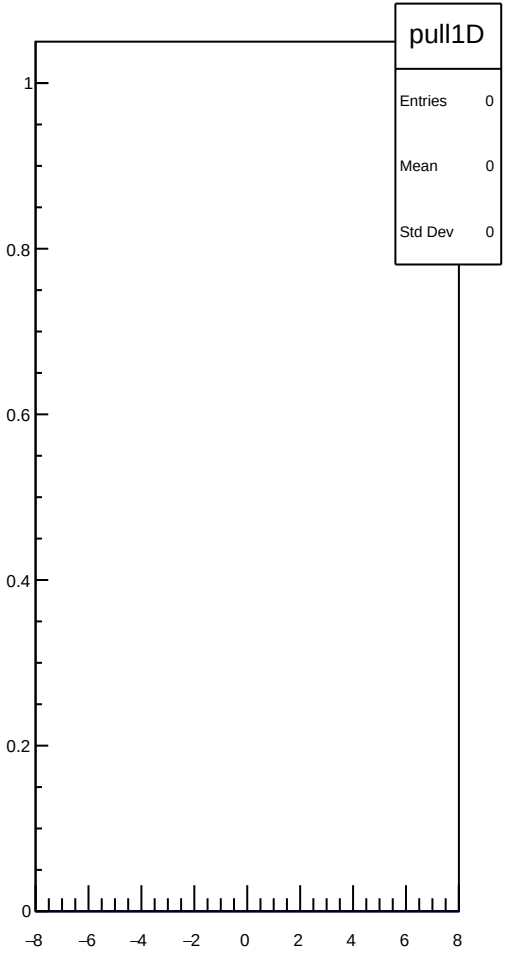
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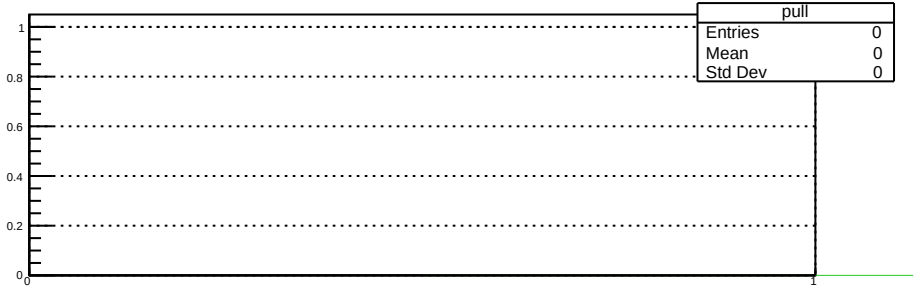
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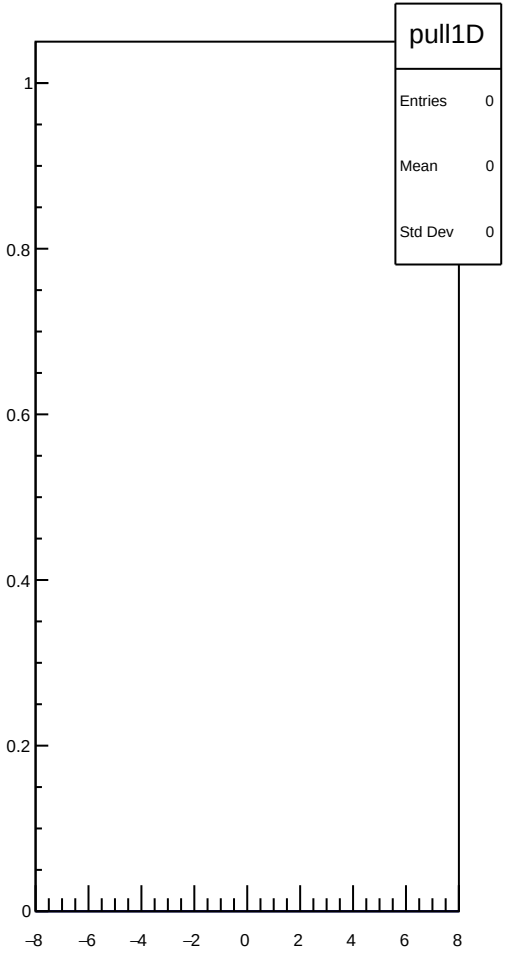
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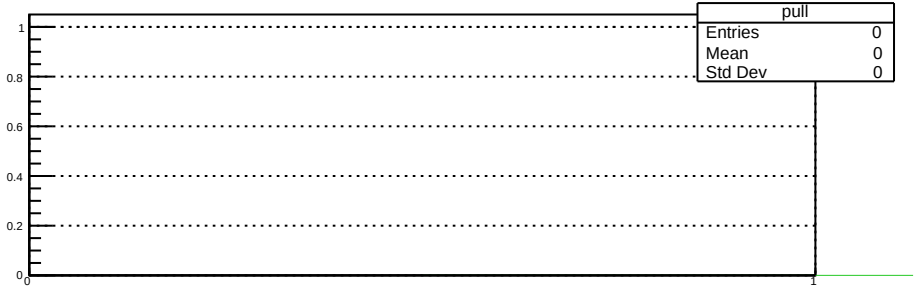
pull
Entries 0
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Std Dev 0
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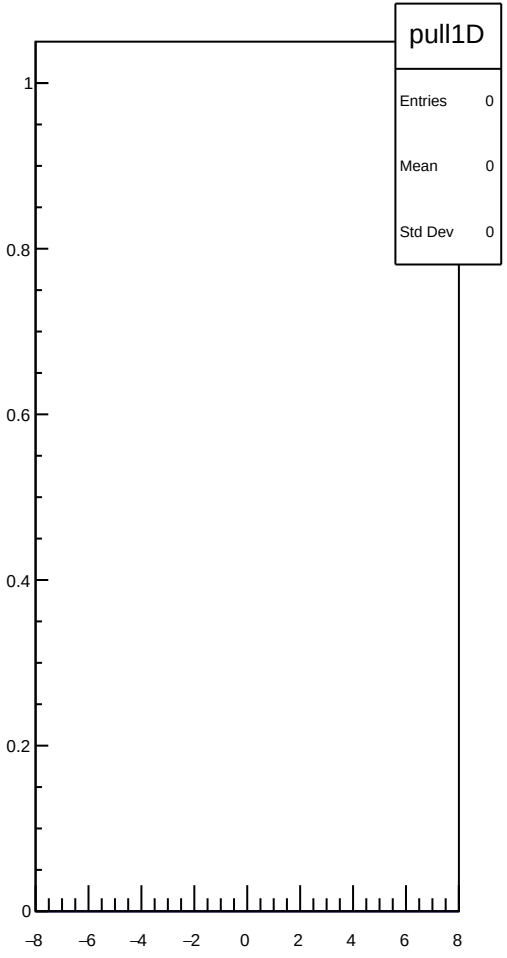
pull1D
Entries 0
Mean 0
Std Dev 0
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0.4
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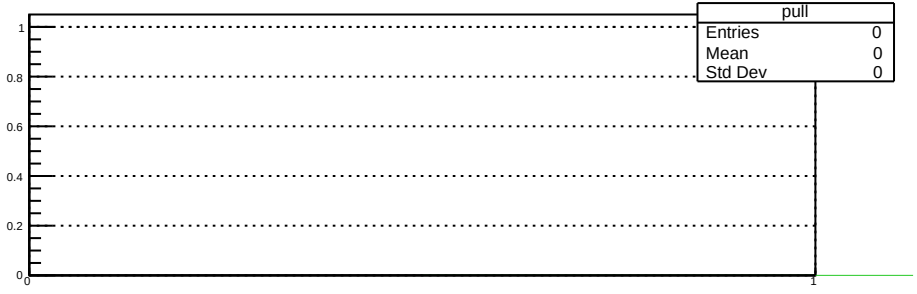
pull
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Std Dev 0
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0.6
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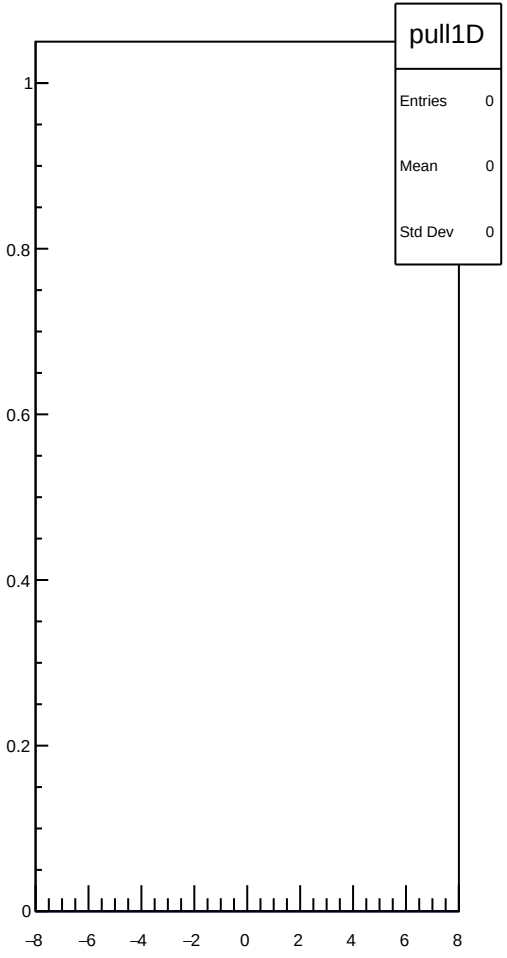
pull1D
Entries 0
Mean 0
Std Dev 0
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0.4
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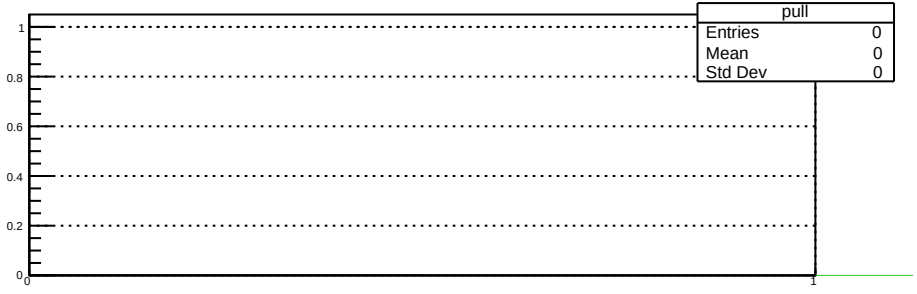
pull
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Std Dev 0
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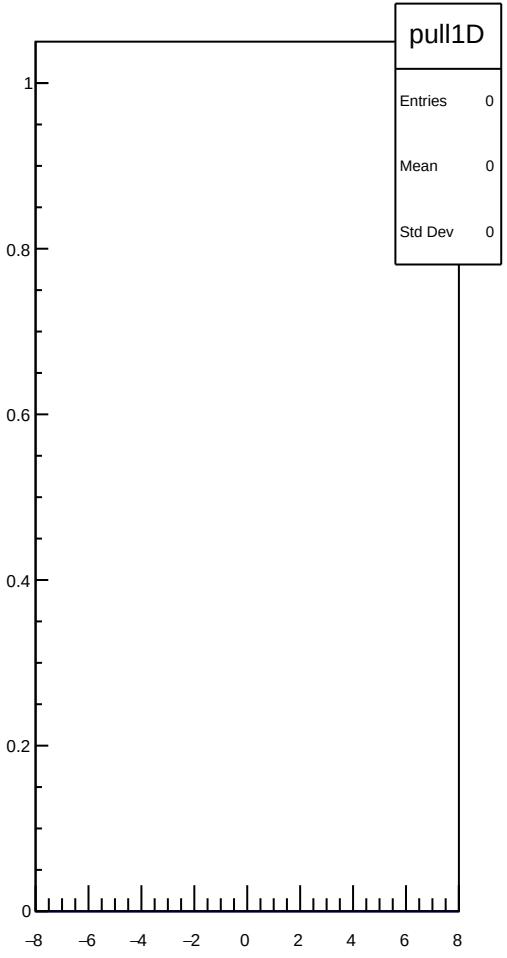
pull1D
Entries 0
Mean 0
Std Dev 0
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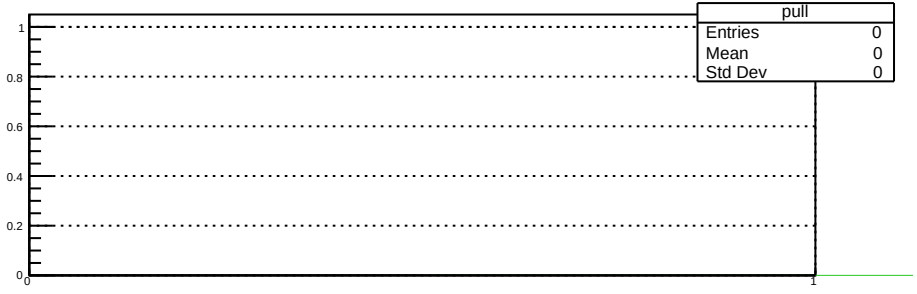
pull
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Mean 0
Std Dev 0
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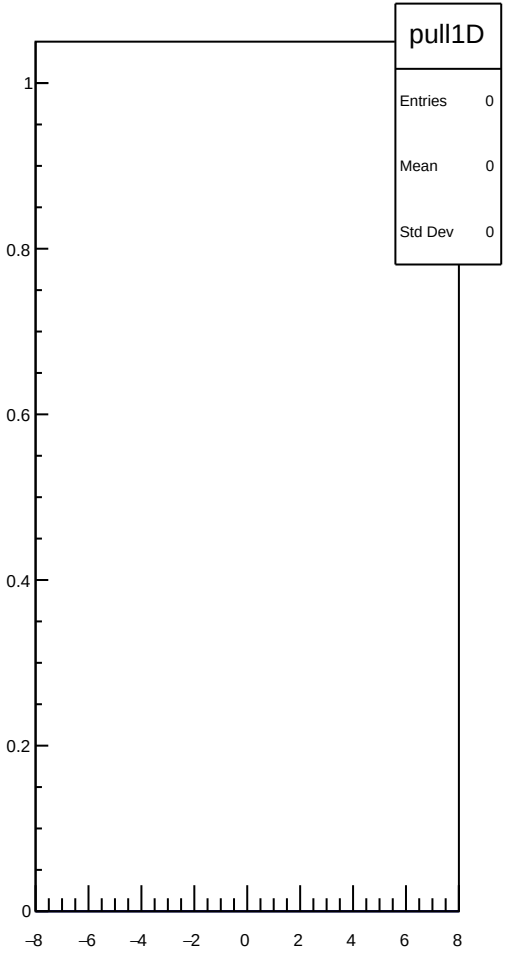
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Mean 0
Std Dev 0
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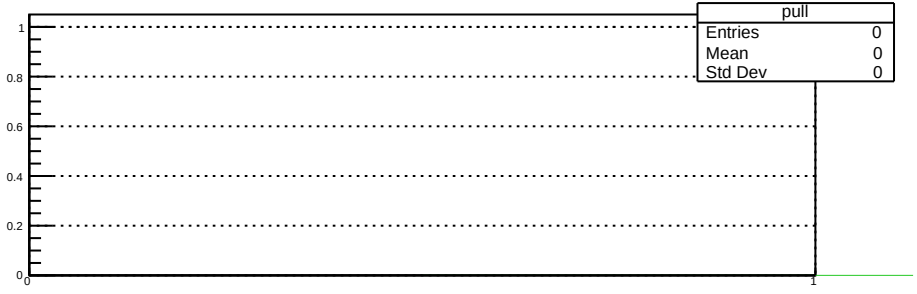
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Mean 0
Std Dev 0
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0.6
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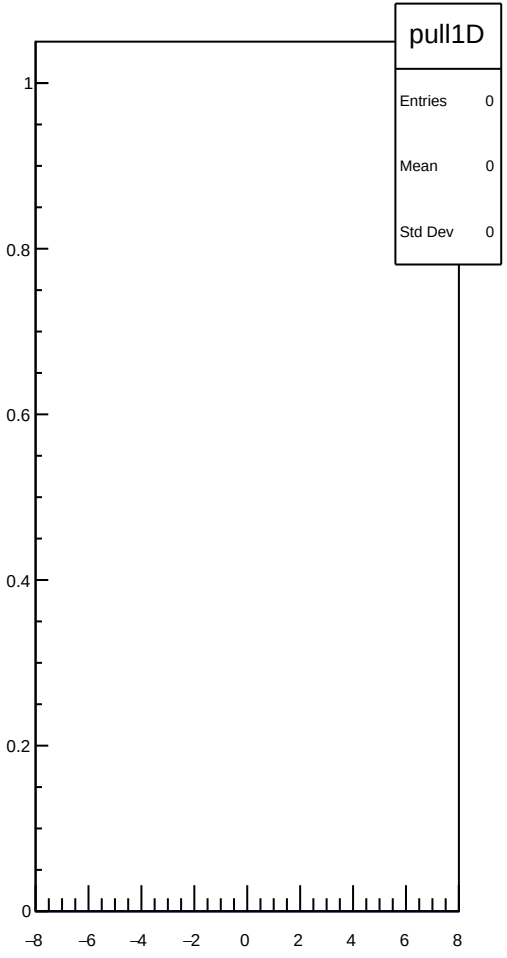
pull1D
Entries 0
Mean 0
Std Dev 0
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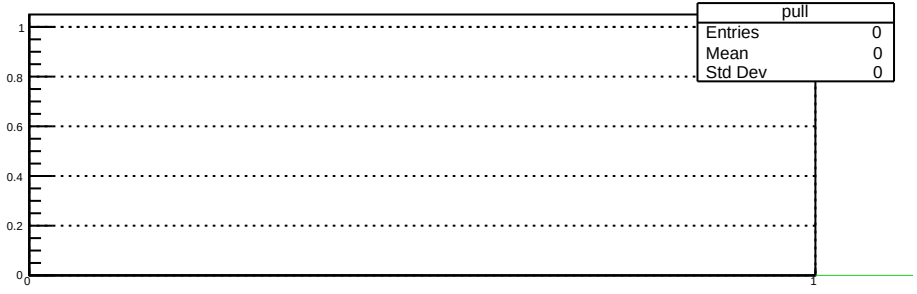
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Std Dev 0
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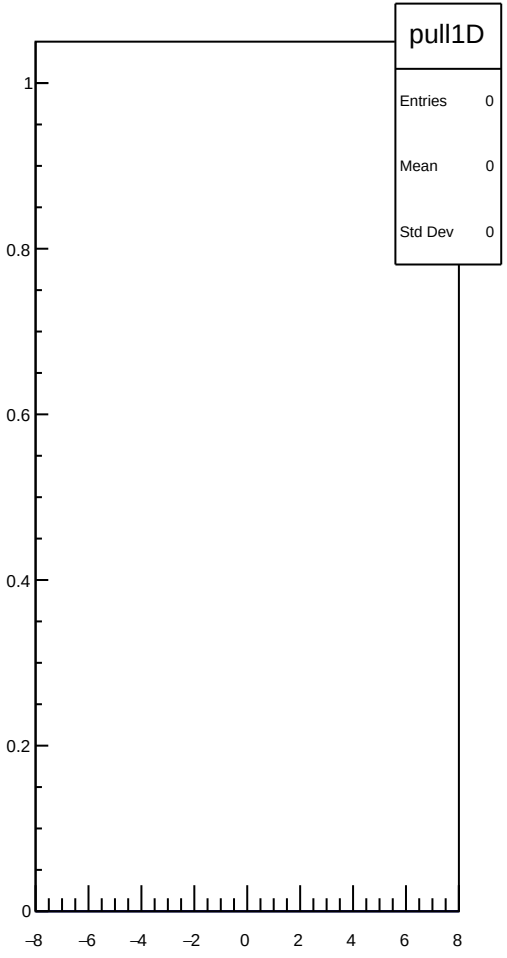
pull1D
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Mean 0
Std Dev 0
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6
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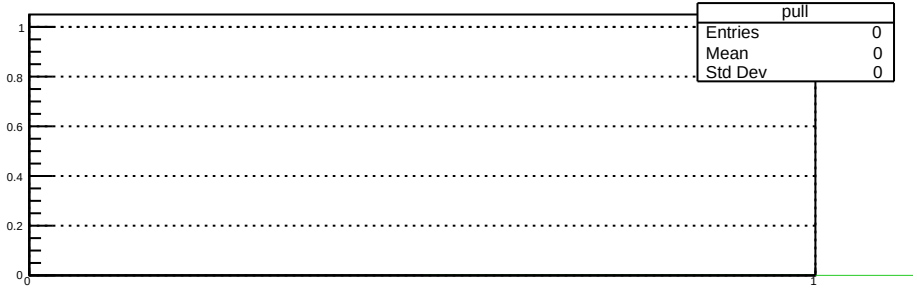
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Mean 0
Std Dev 0
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0.6
0.4
0.2
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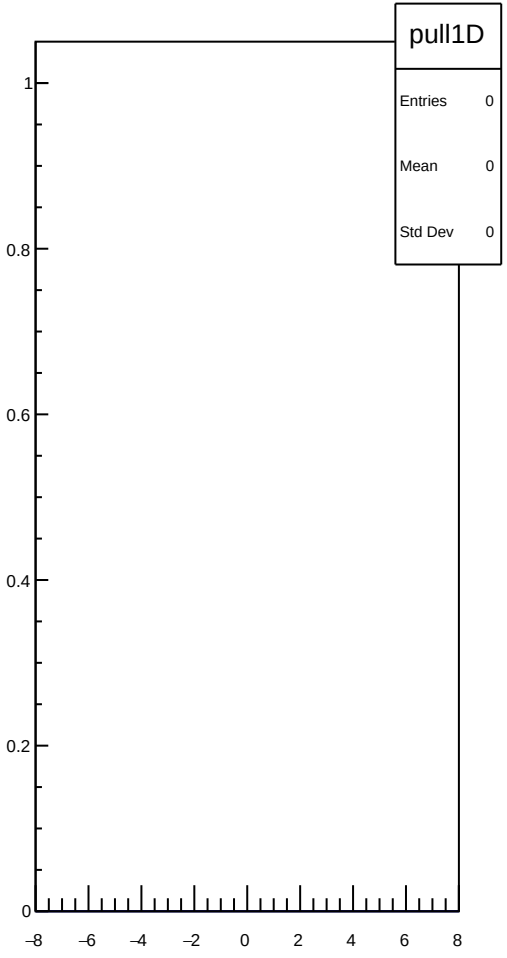
pull1D
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
0.2
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2
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6
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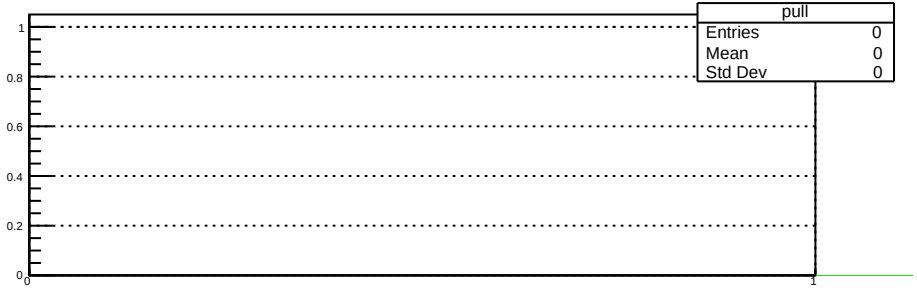
pull
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
0.2
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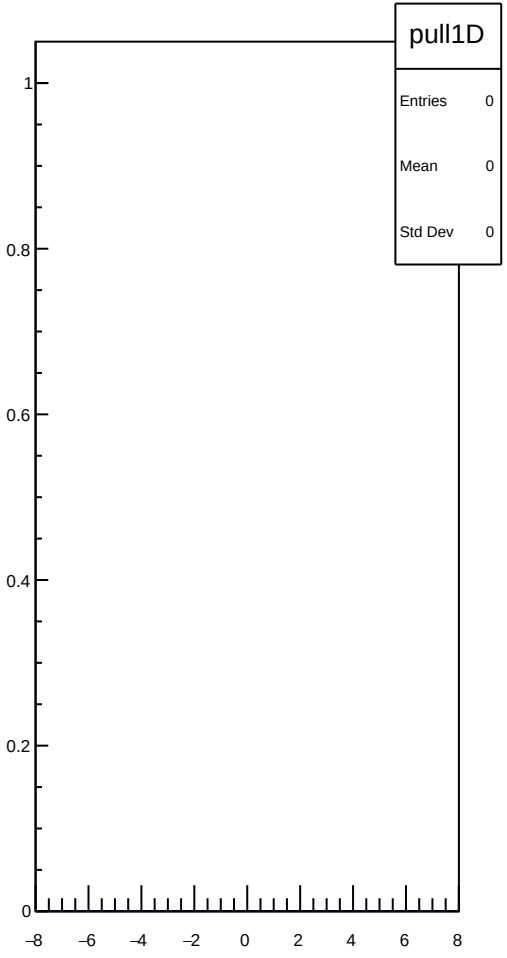
pull1D
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
0.2
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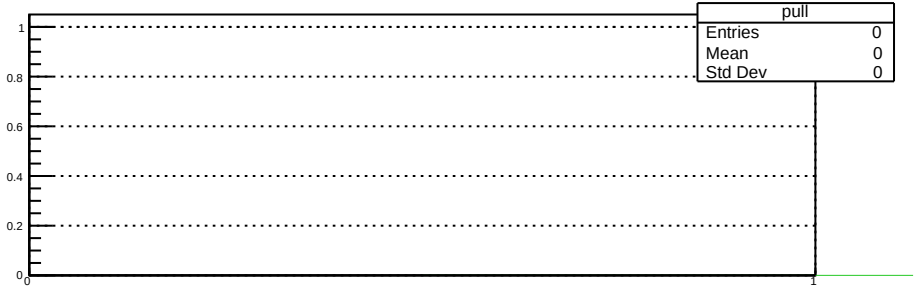
pull
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
0.2
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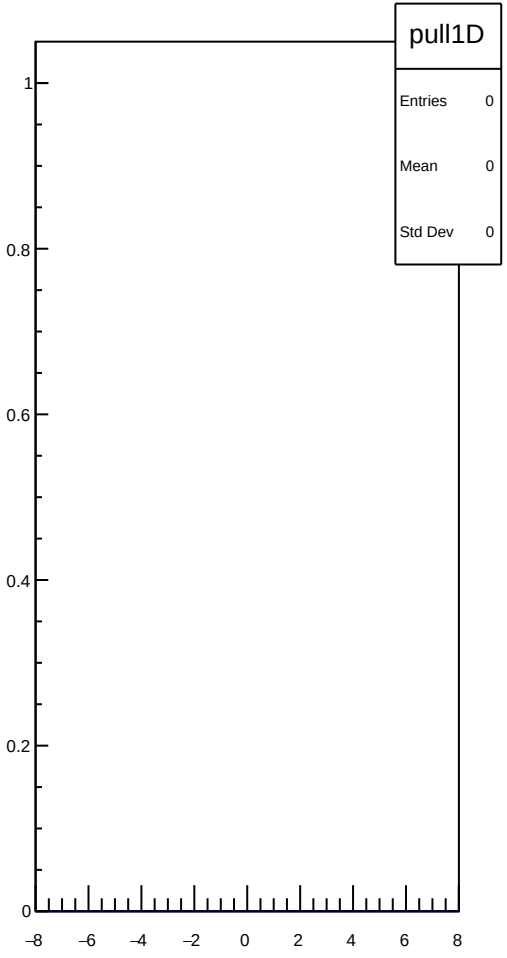
pull1D
Entries 0
Mean 0
Std Dev 0
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0.8
0.6
0.4
0.2
0
–8
–6
–4
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2
4
6
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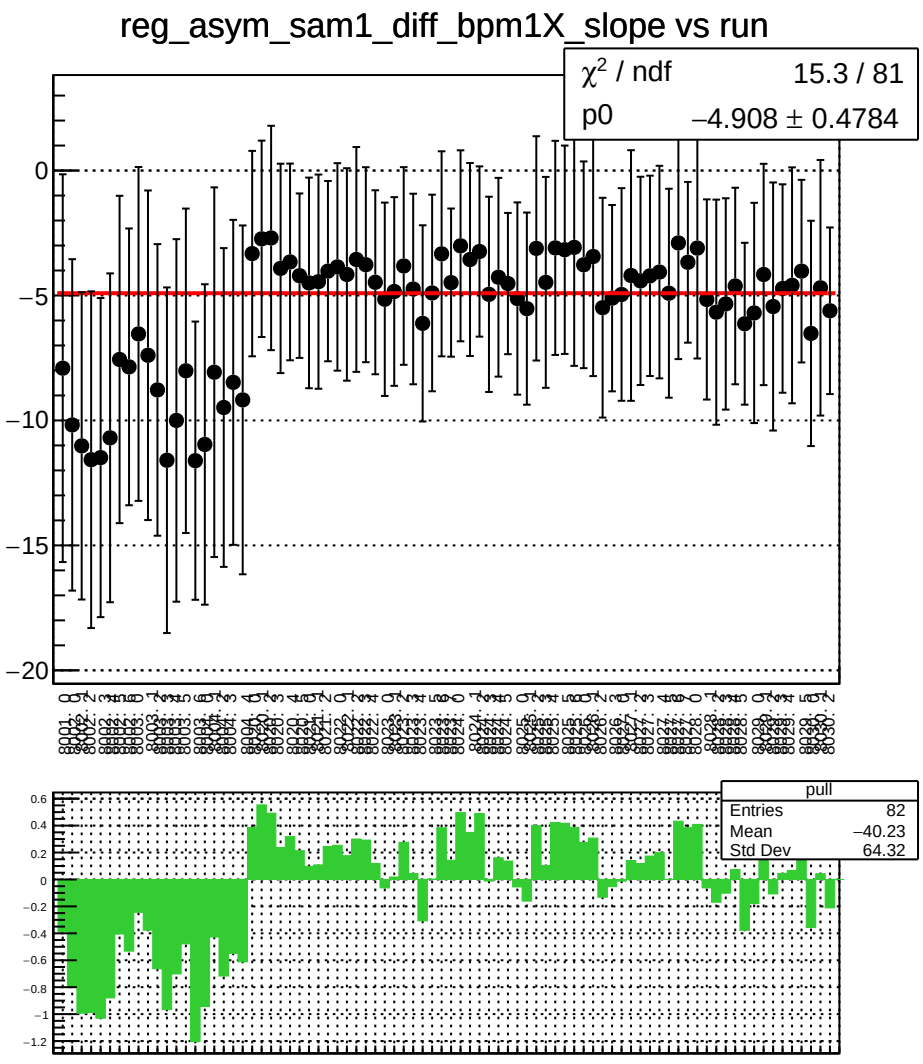
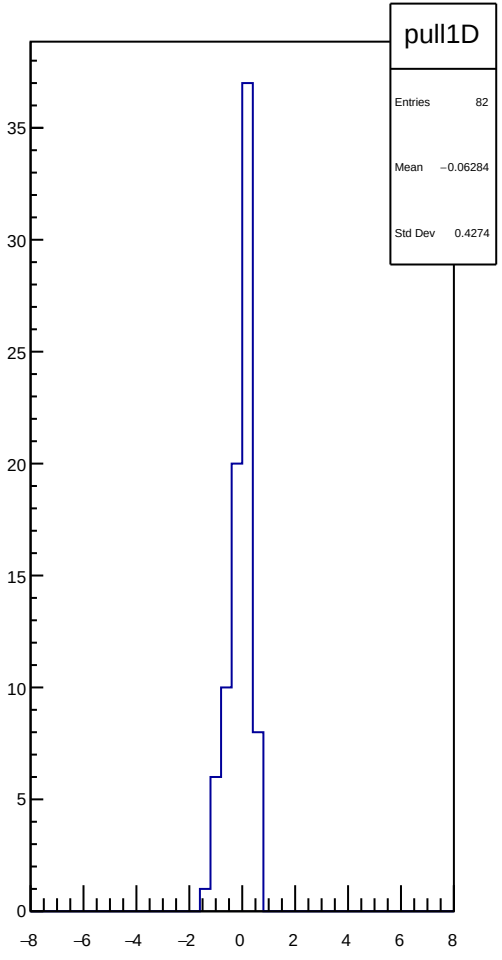
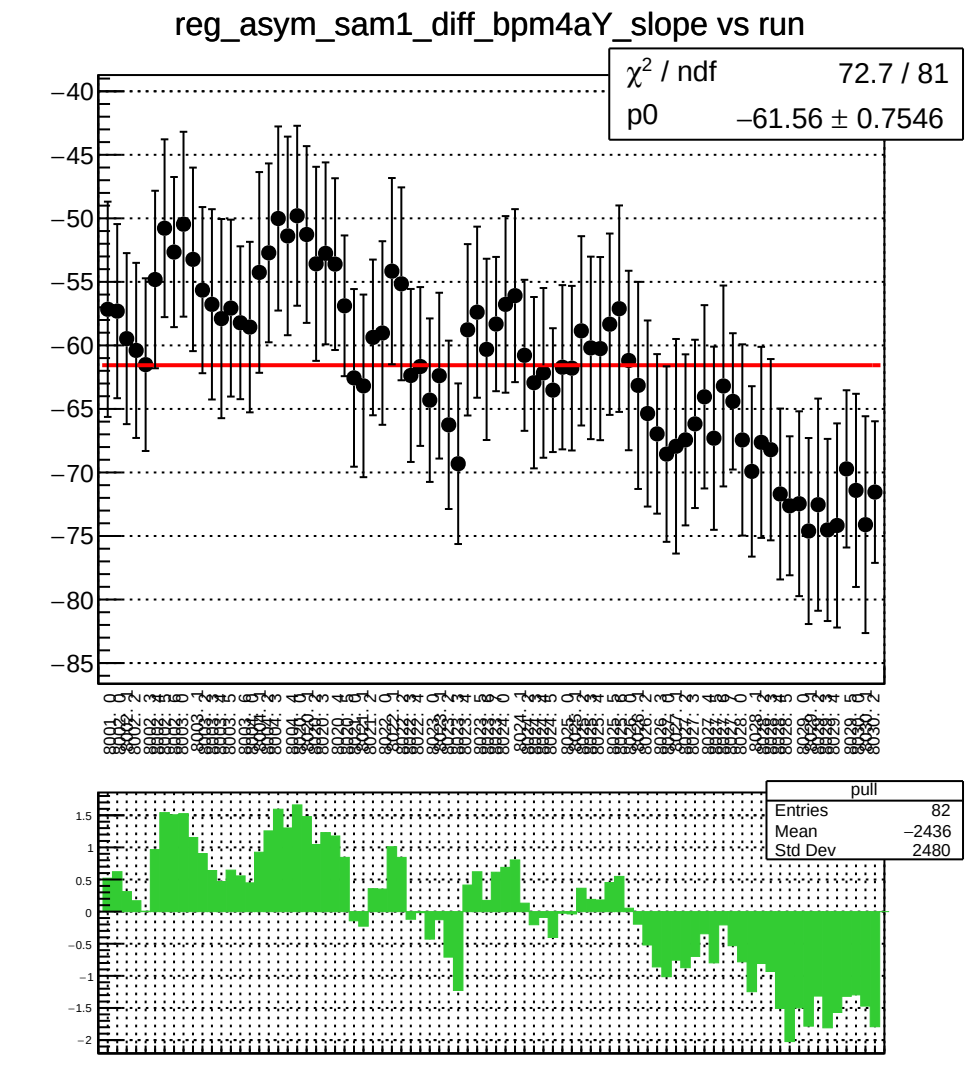
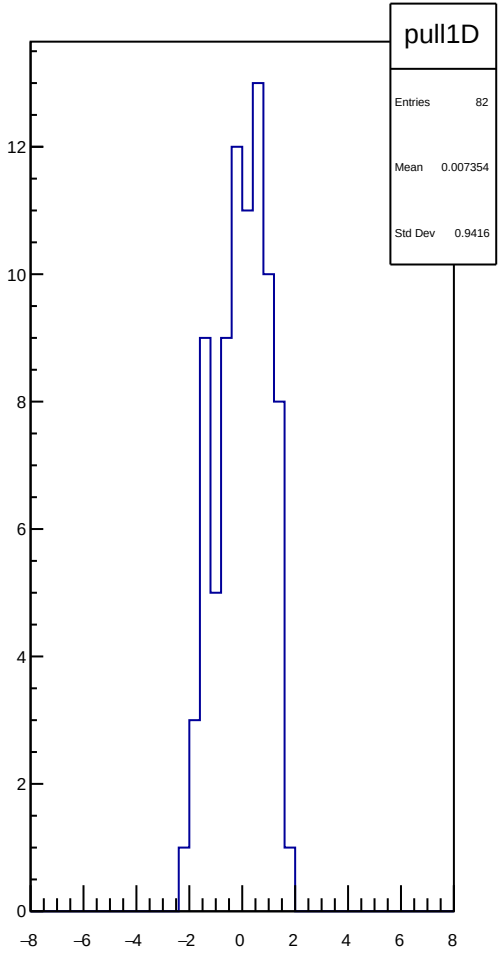
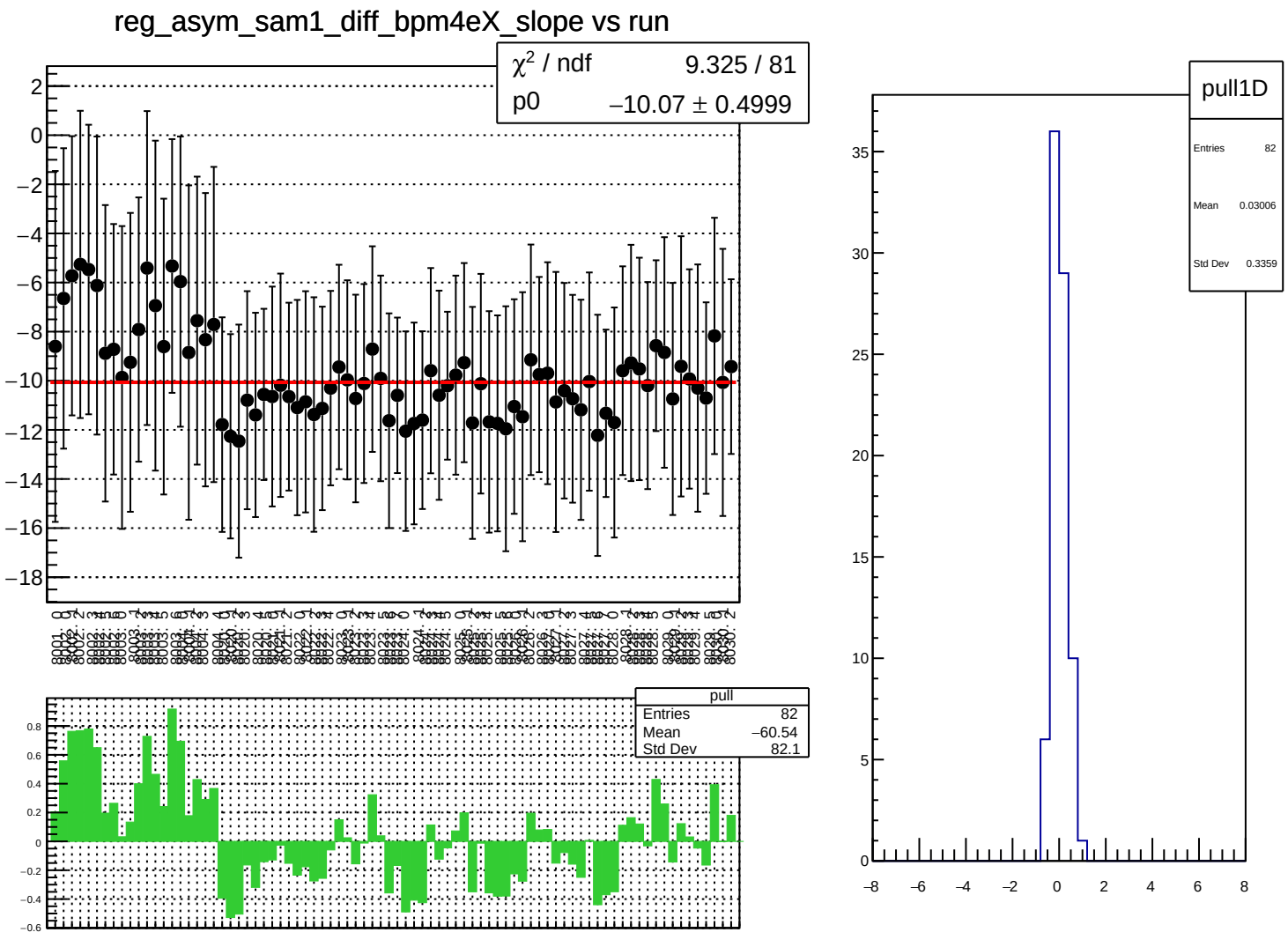
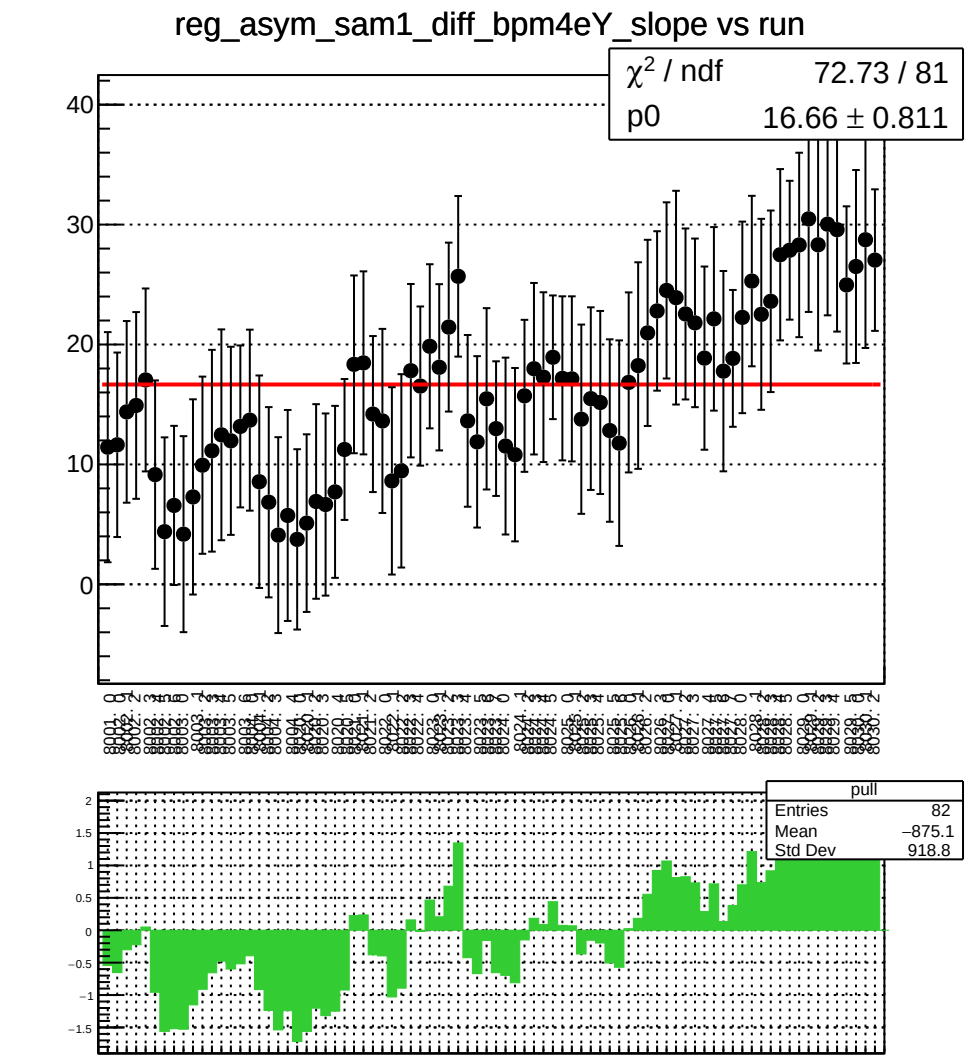

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 15.3 / 81
p0 −4.908 ± 0.4784
pull
Entries 82
Mean −40.23
Std Dev 64.32

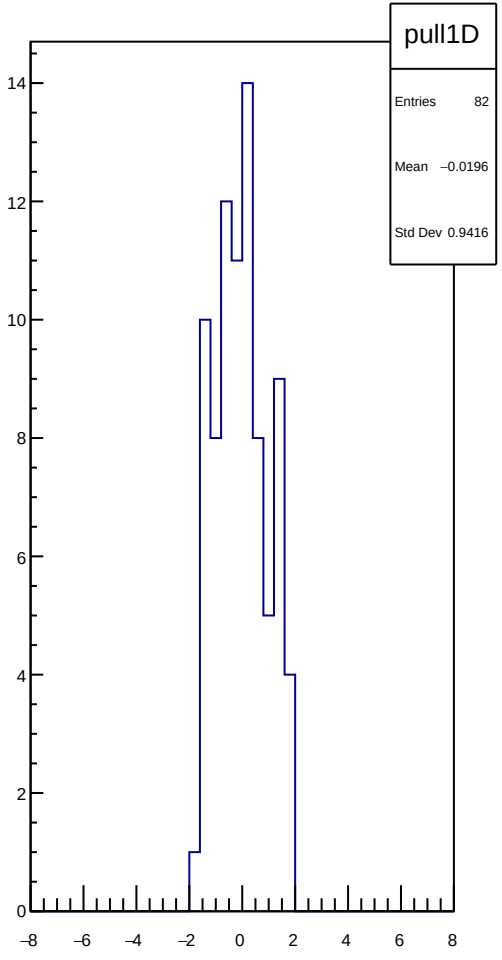

pull1D
Entries 82
Mean −0.06284
Std Dev 0.4274

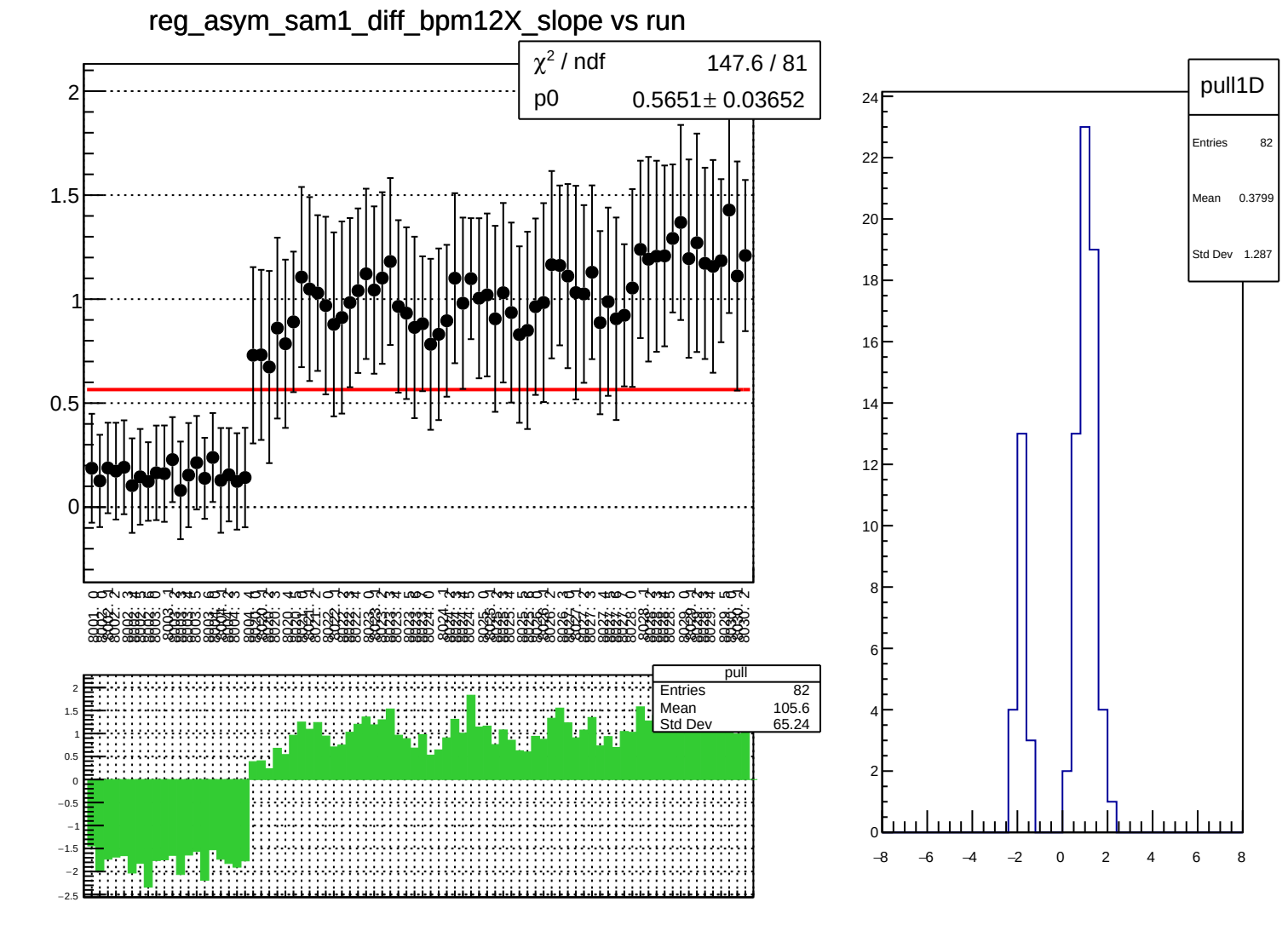

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 72.7 / 81
p0 −61.56 ± 0.7546
pull
Entries 82
Mean −2436
Std Dev 2480

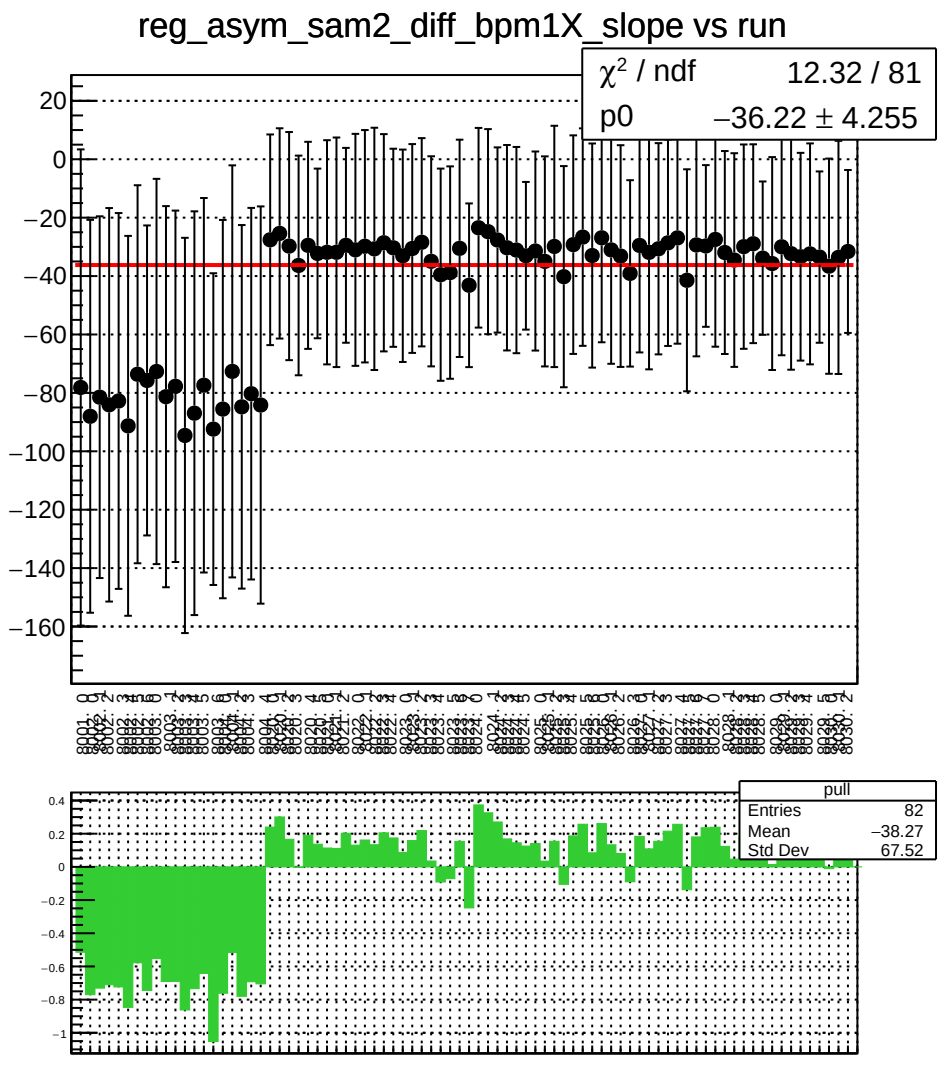

pull1D
Entries 82
Mean 0.007354
Std Dev 0.9416

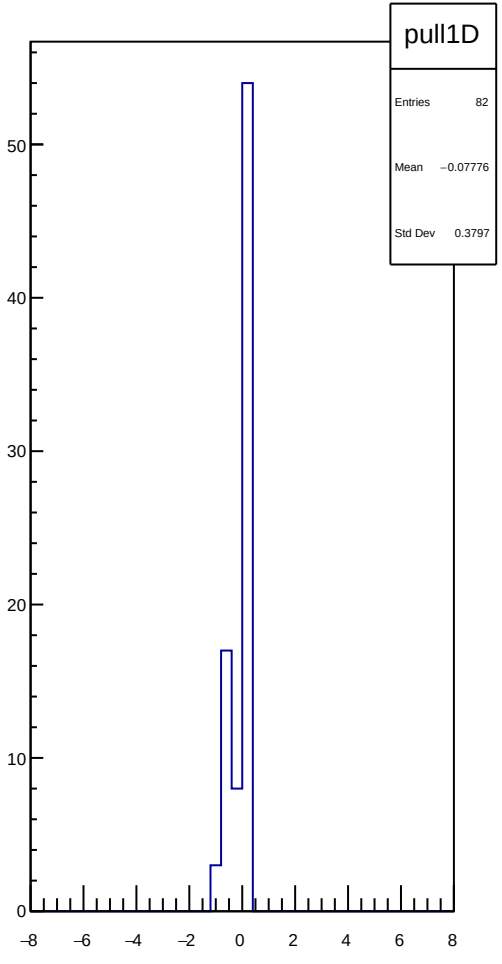

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 9.325 / 81
p0 −10.07 ± 0.4999
pull
Entries 82
Mean −60.54
Std Dev 82.1
pull1D
Entries 82
Mean 0.03006
Std Dev 0.3359

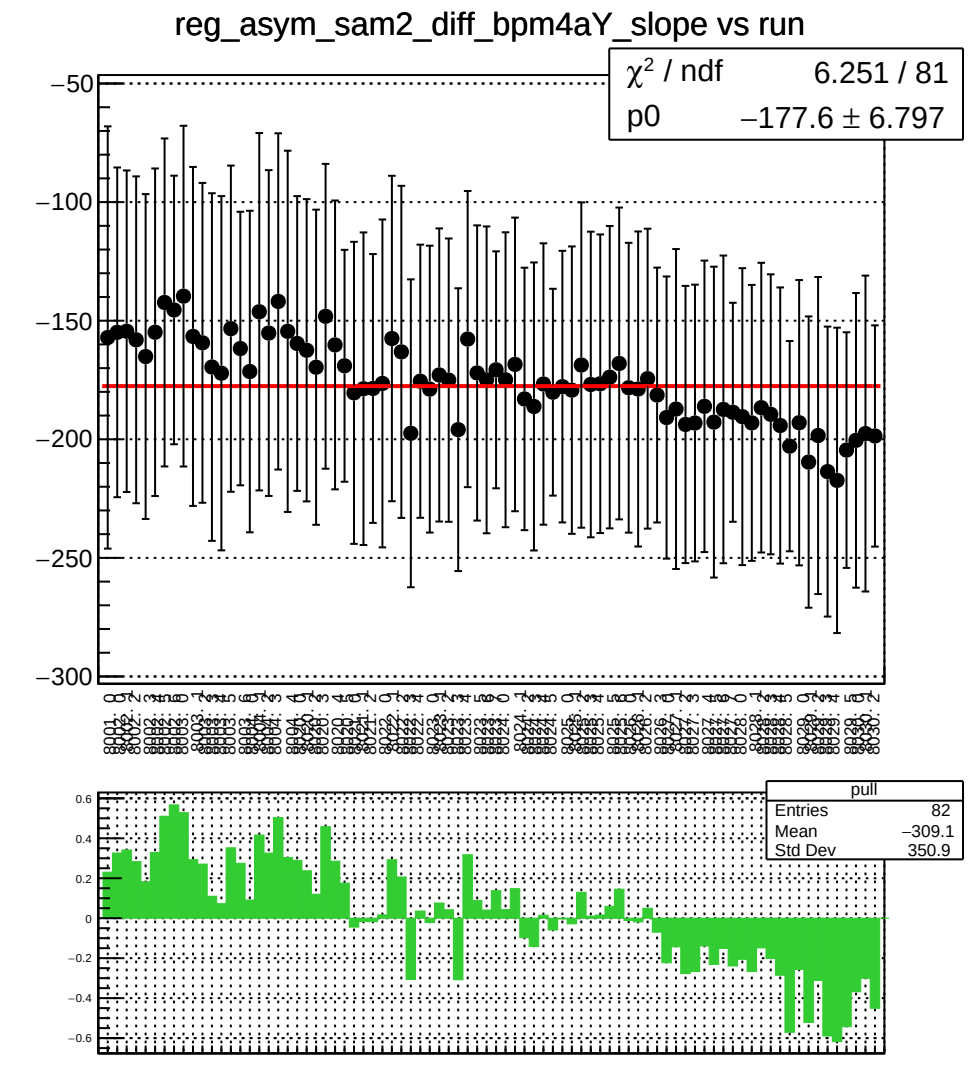

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 72.73 / 81
p0 16.66 ± 0.811
pull
Entries 82
Mean −875.1
Std Dev 918.8

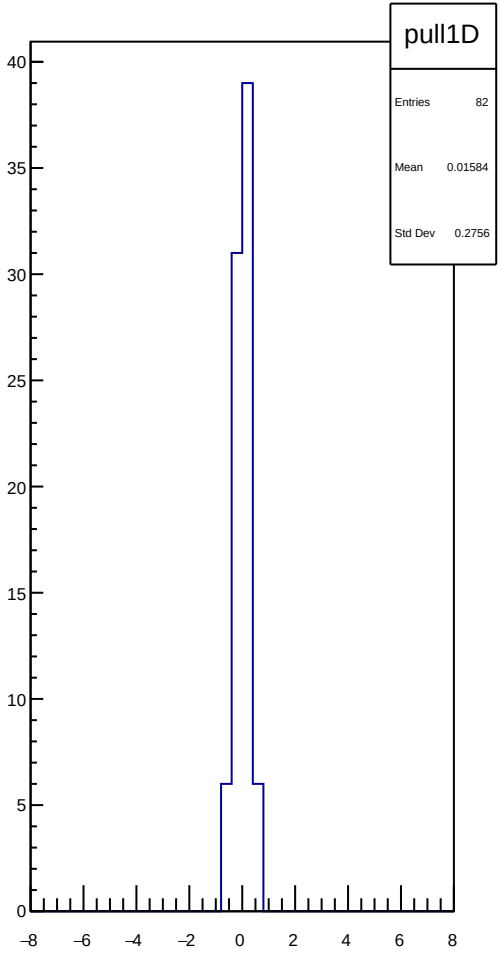

pull1D
Entries 82
Mean −0.0196
Std Dev 0.9416

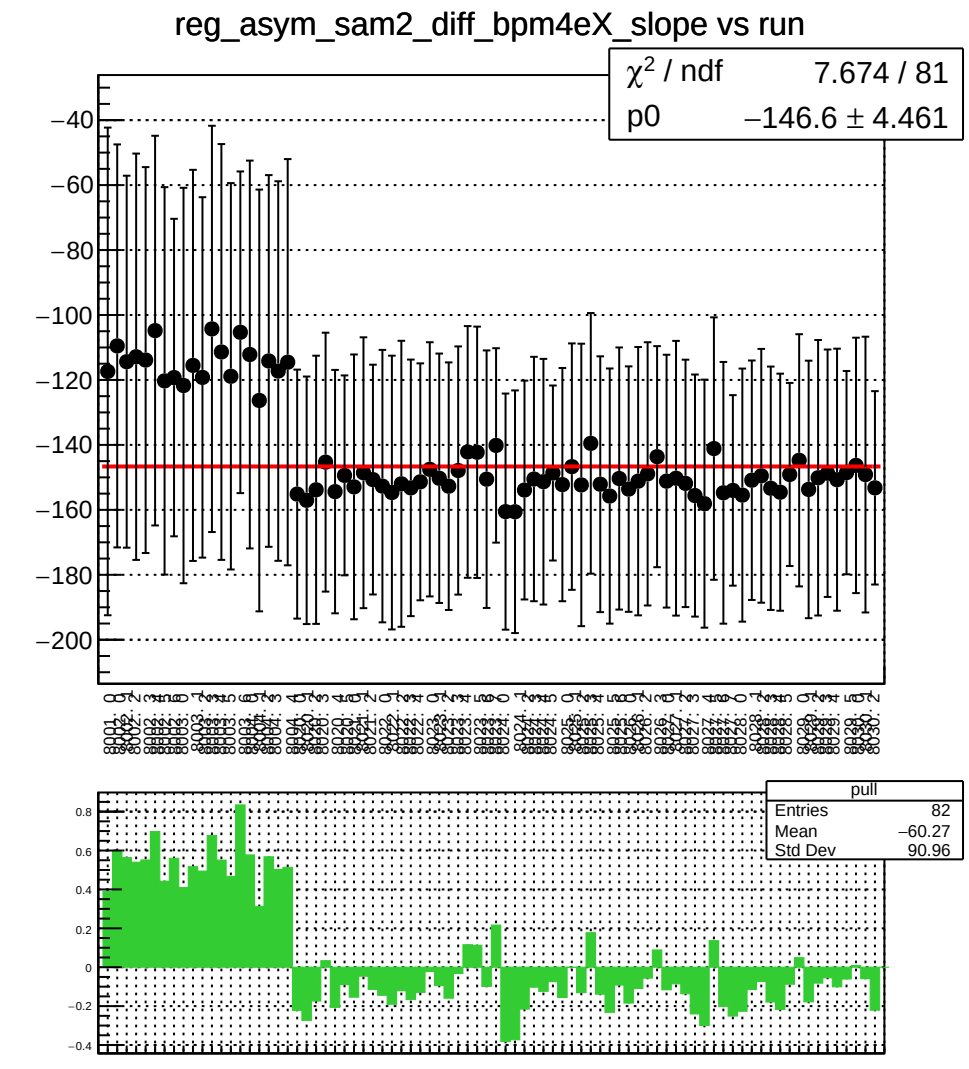

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 147.6 / 81
p0 0.5651± 0.03652
pull
Entries 82
Mean 105.6
Std Dev 65.24
pull1D
Entries 82
Mean 0.3799
Std Dev 1.287

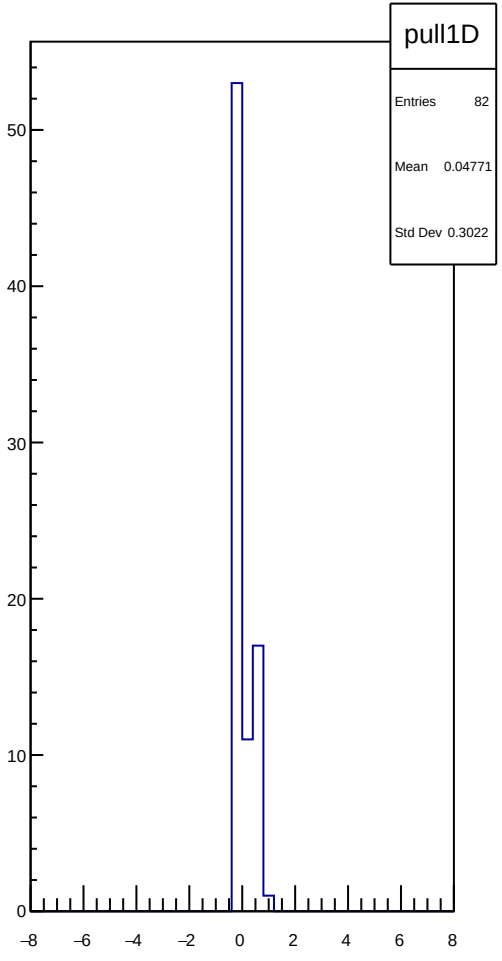

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 12.32 / 81
p0 −36.22 ± 4.255
pull
Entries 82
Mean −38.27
Std Dev 67.52

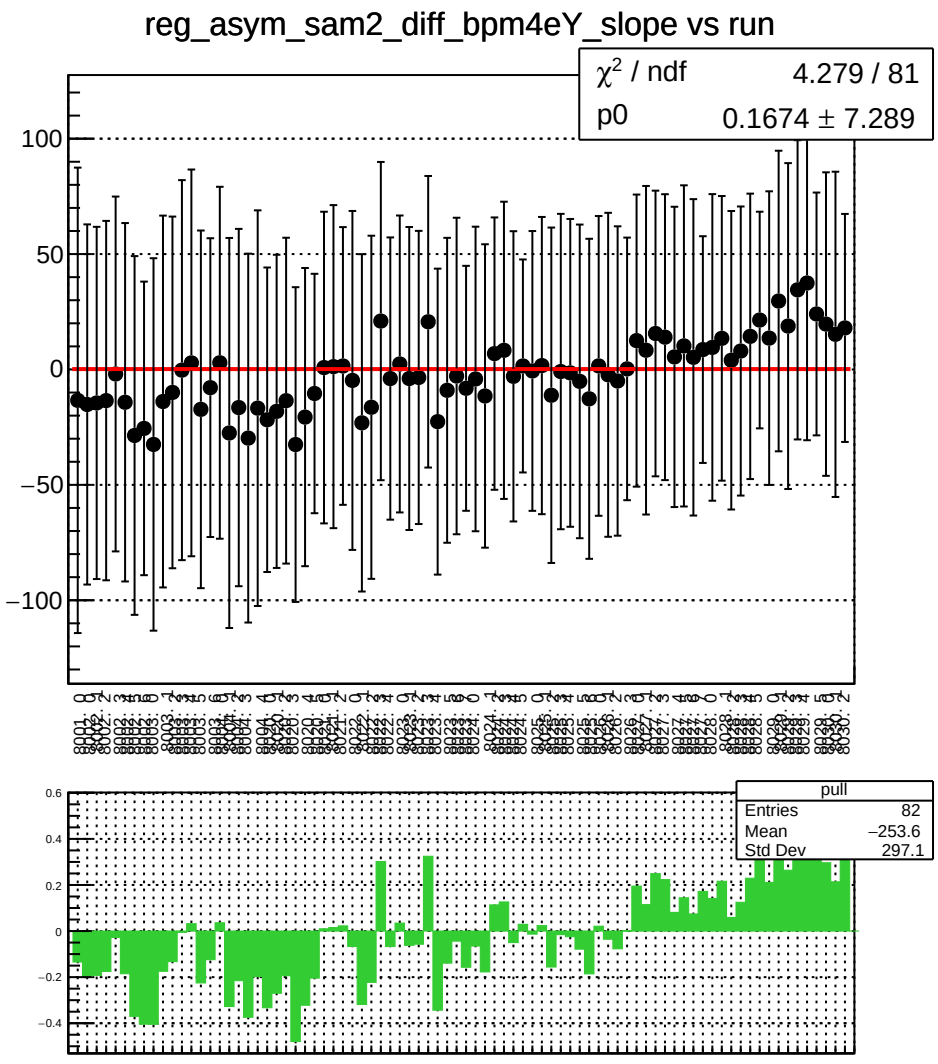

pull1D
Entries 82
Mean −0.07776
Std Dev 0.3797


reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 6.251 / 81
p0 −177.6 ± 6.797
pull
Entries 82
Mean −309.1
Std Dev 350.9


pull1D
Entries 82
Mean 0.01584
Std Dev 0.2756


reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 7.674 / 81
p0 −146.6 ± 4.461
pull
Entries 82
Mean −60.27
Std Dev 90.96


pull1D
Entries 82
Mean 0.04771
Std Dev 0.3022


reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 4.279 / 81
p0 0.1674 ± 7.289
100
50
0
−50
−100
pull
Entries 82
Mean −253.6
Std Dev 297.1
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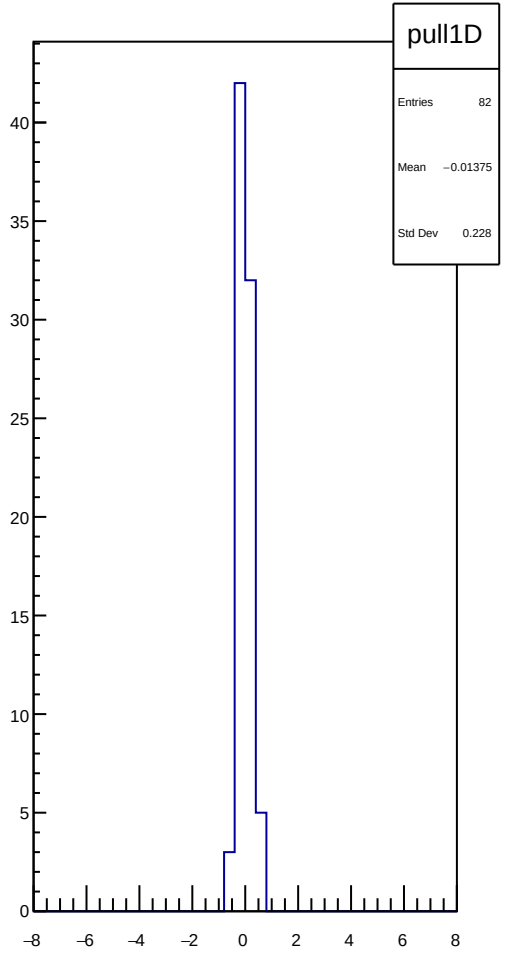
0.4
0.2
0
−0.2
−0.4


pull1D
Entries 82
Mean −0.01375
Std Dev 0.228
40
35
30
25
20
15
10
5
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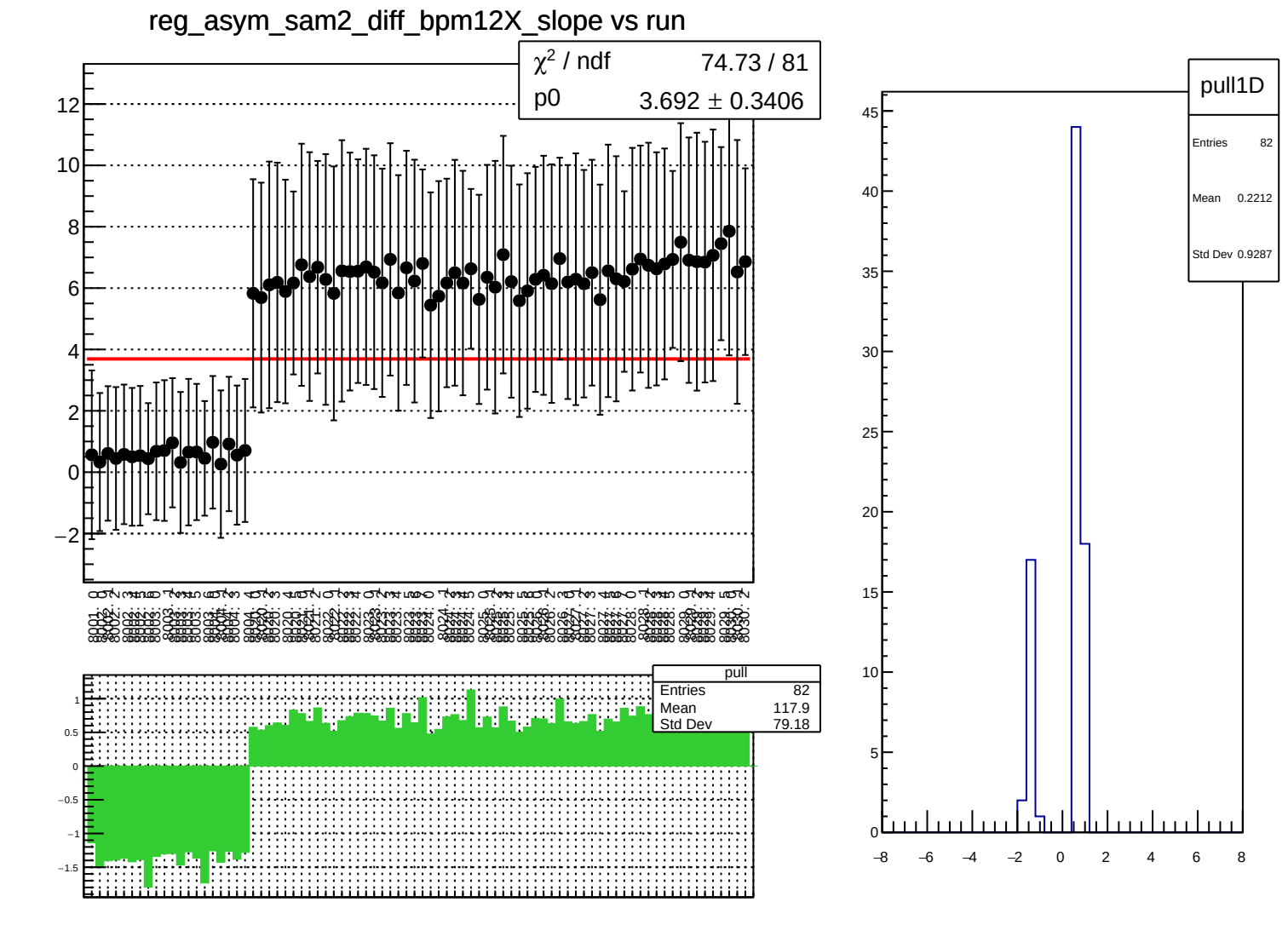
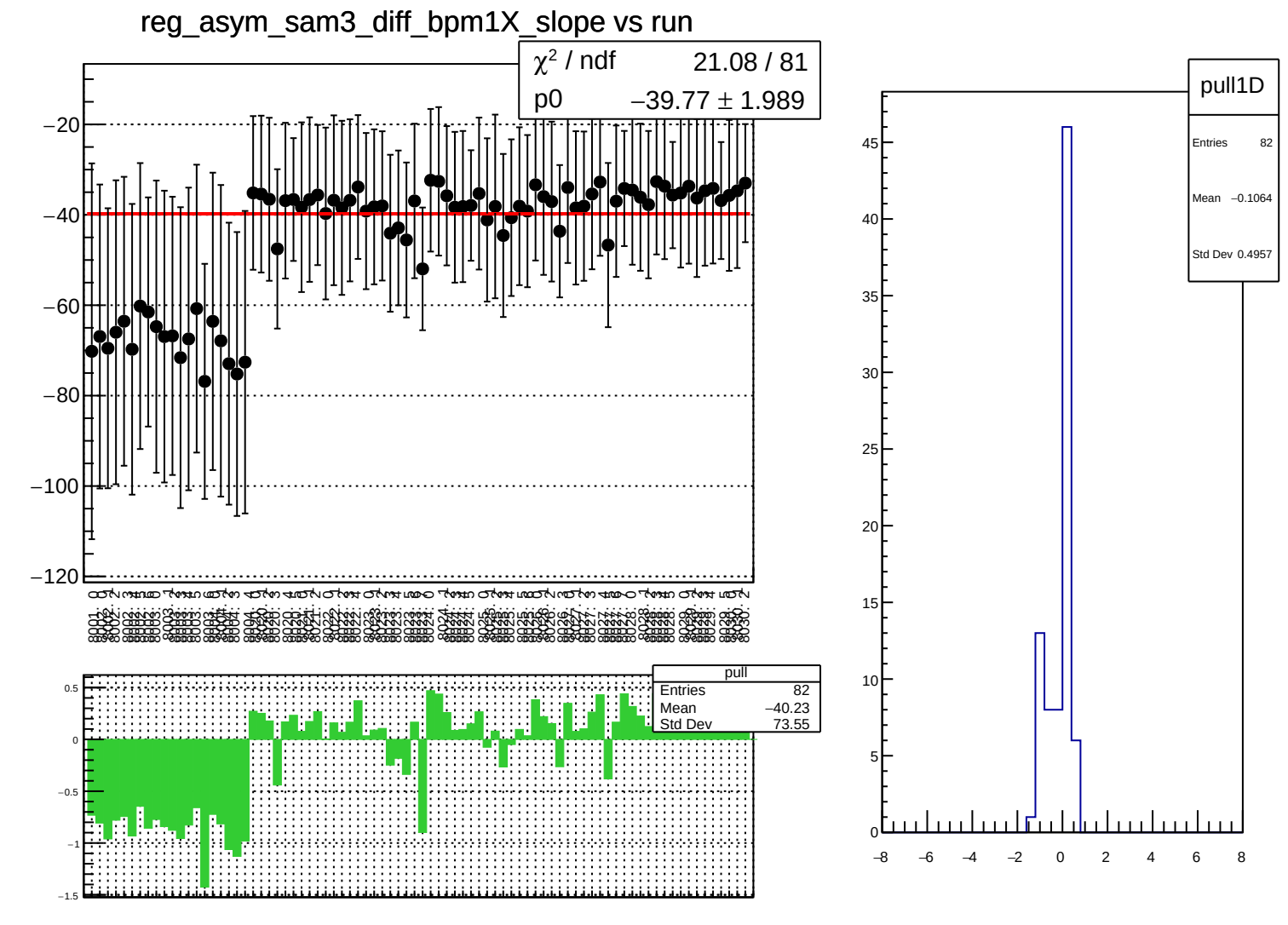
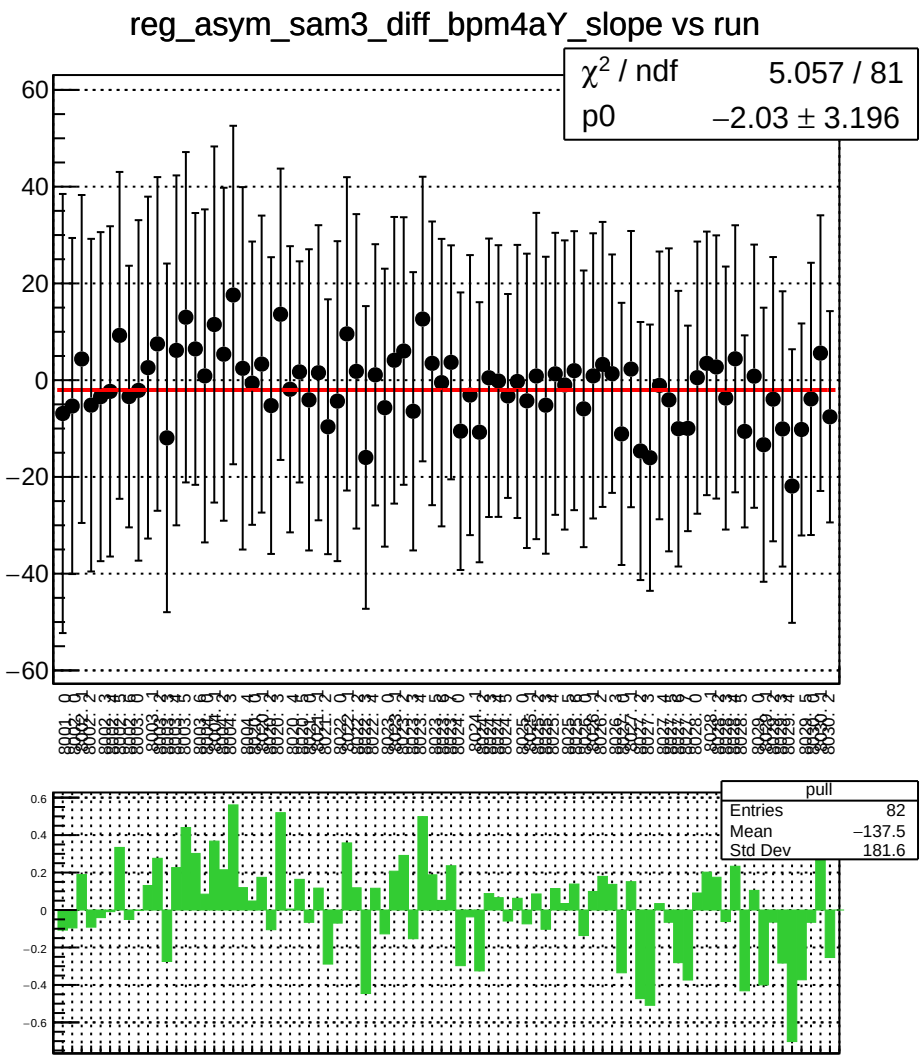
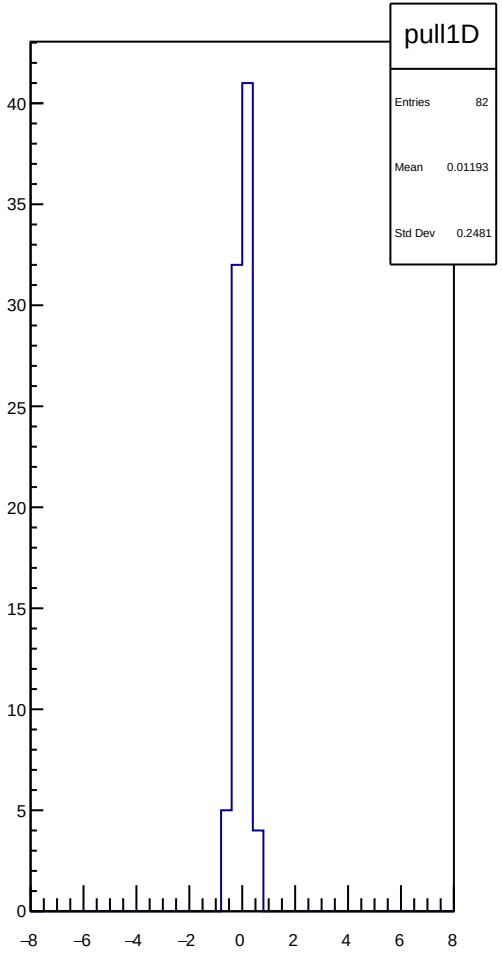
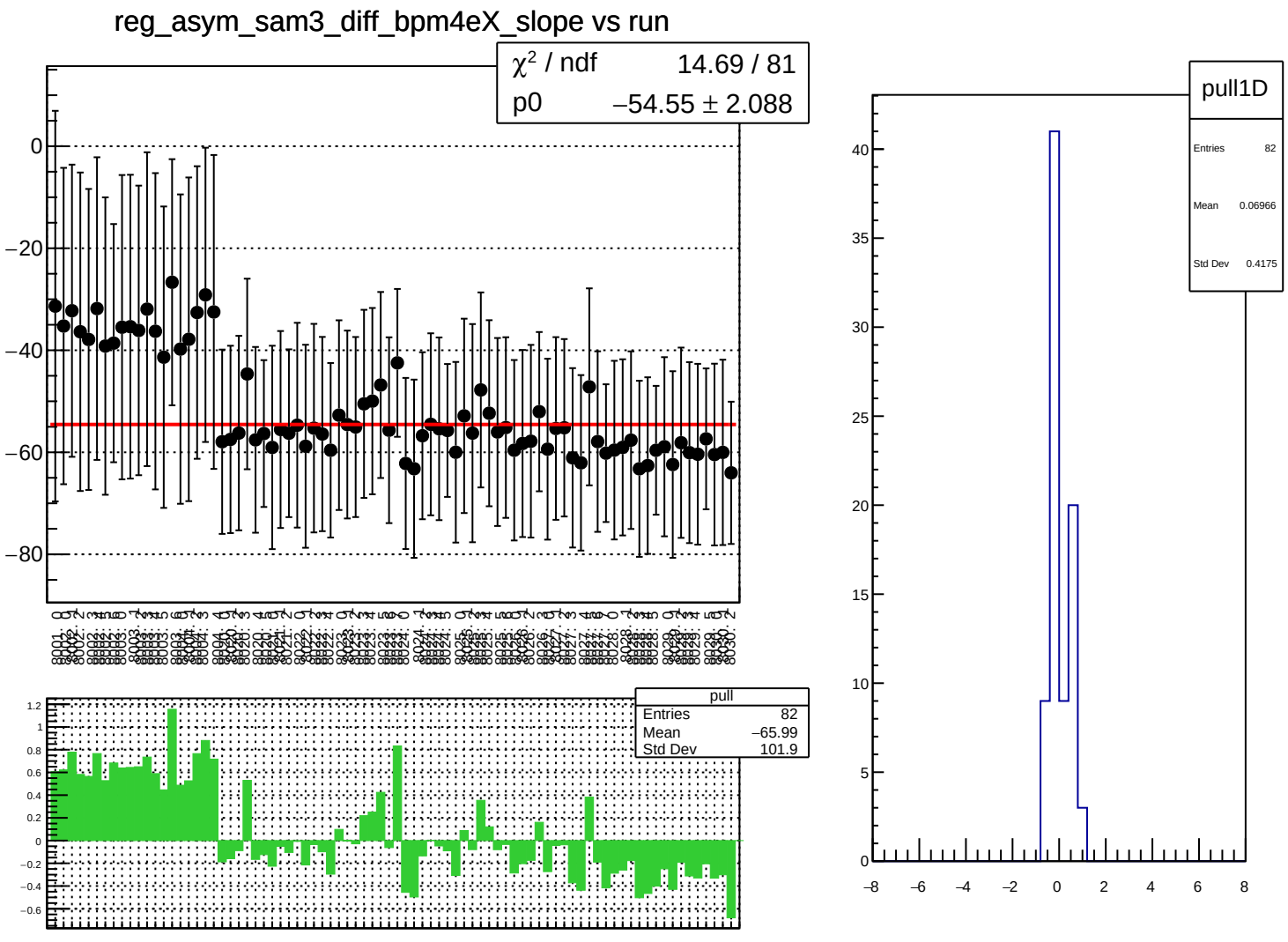
−6
−4
−2
0
2
4
6
8

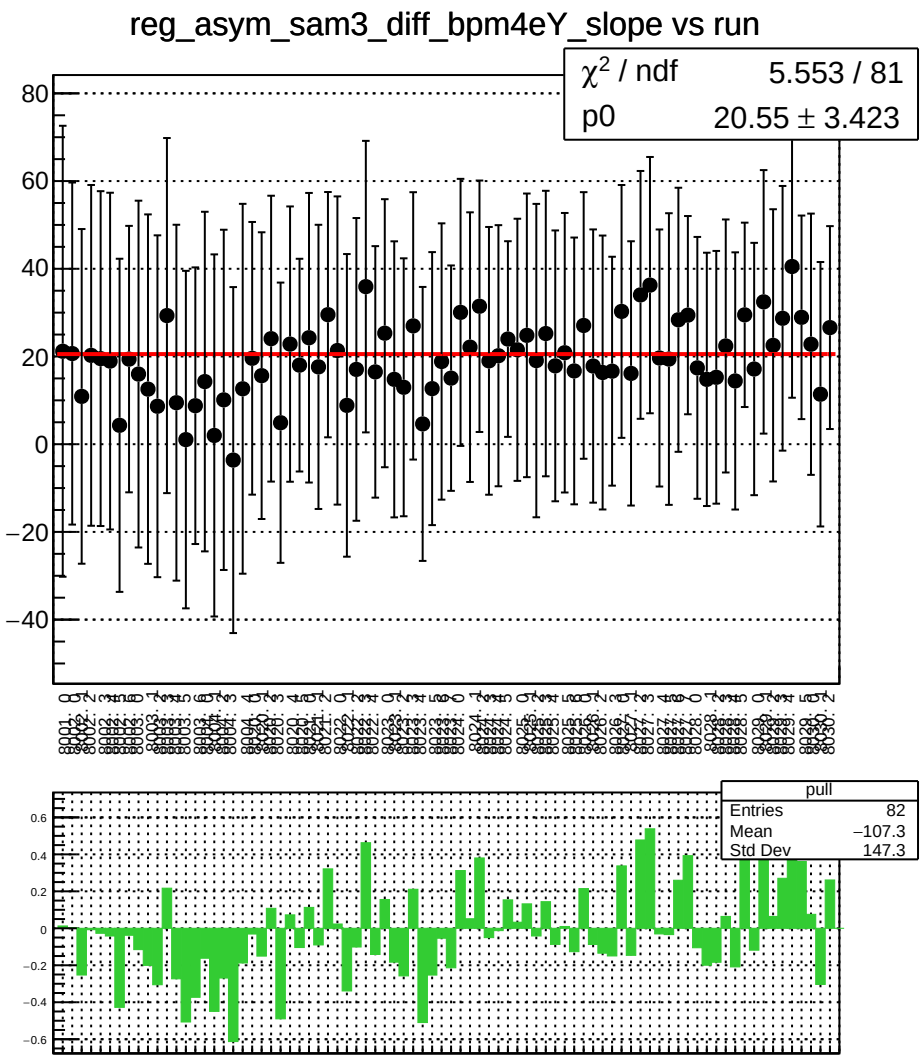

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 74.73 / 81
p0 3.692 ± 0.3406
pull
Entries 82
Mean 117.9
Std Dev 79.18
pull1D
Entries 82
Mean 0.2212
Std Dev 0.9287

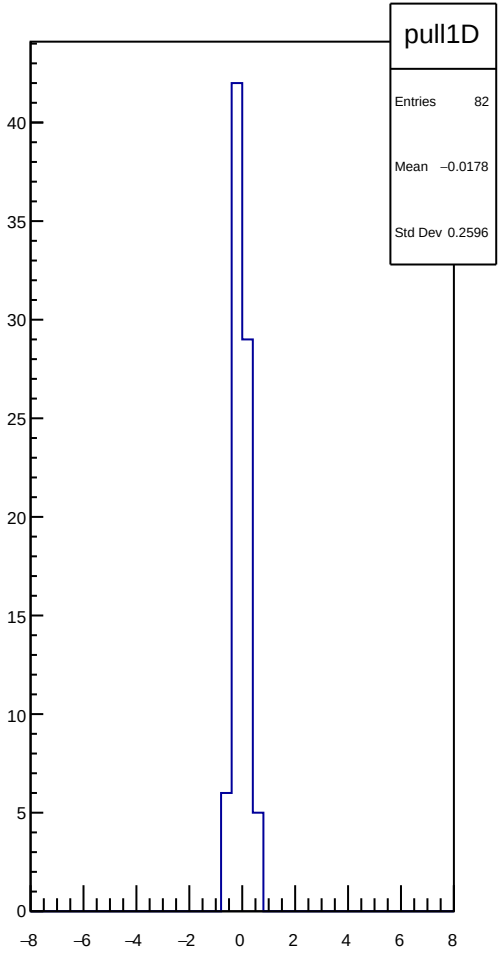

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 21.08 / 81
p0 −39.77 ± 1.989
pull
Entries 82
Mean −40.23
Std Dev 73.55
pull1D
Entries 82
Mean −0.1064
Std Dev 0.4957

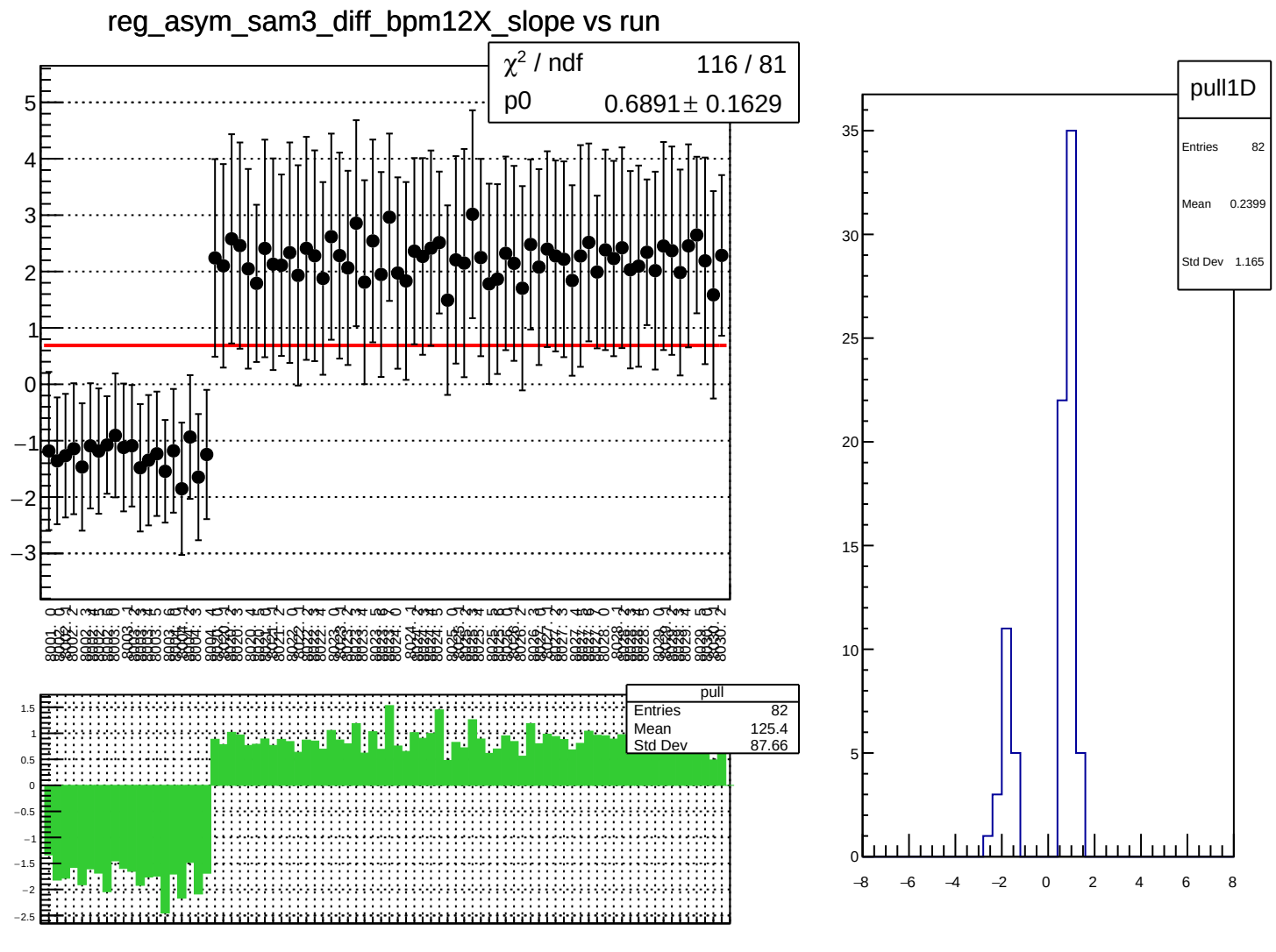

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 5.057 / 81
p0 −2.03 ± 3.196
pull
Entries 82
Mean −137.5
Std Dev 181.6

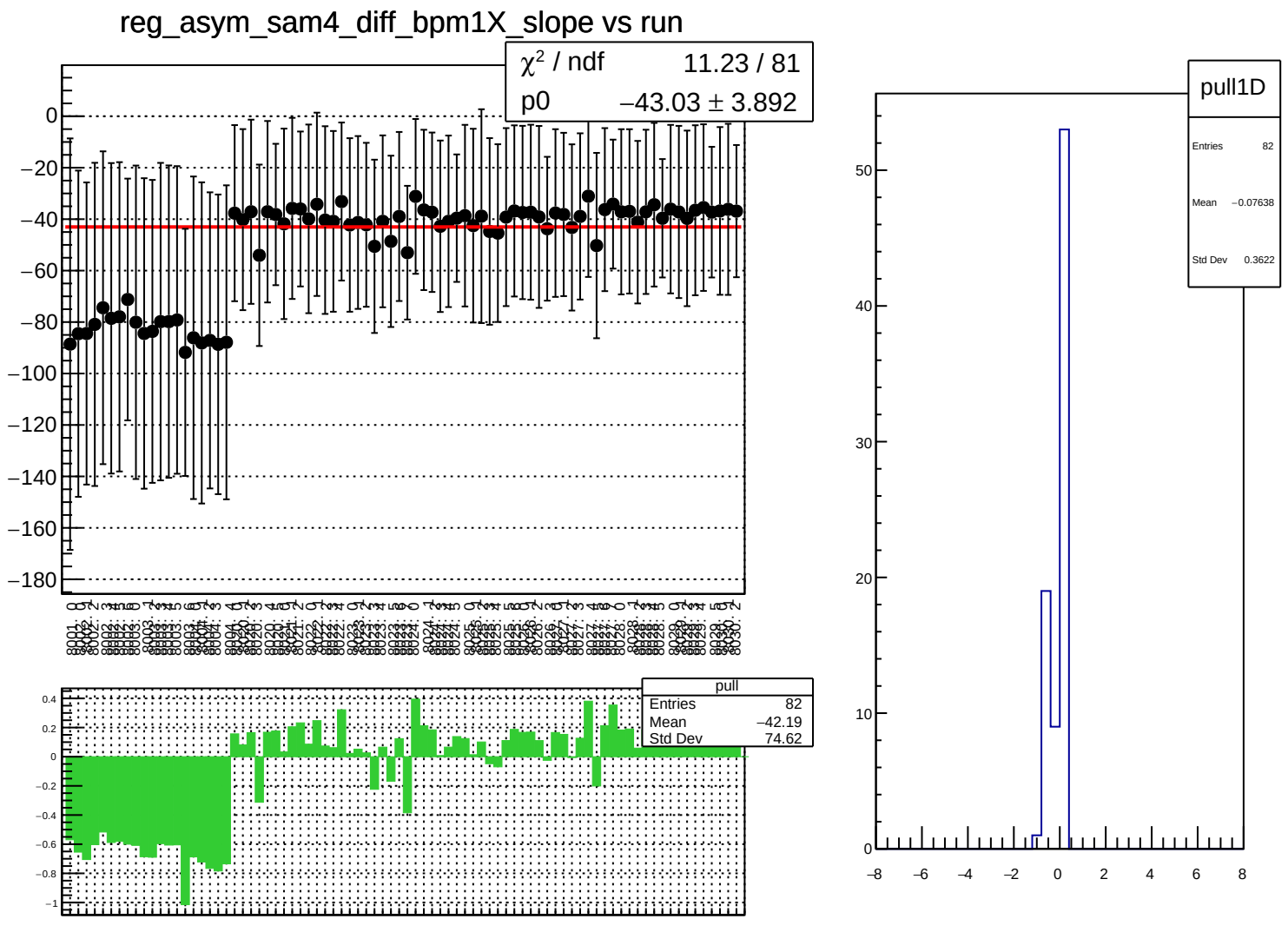

pull1D
Entries 82
Mean 0.01193
Std Dev 0.2481

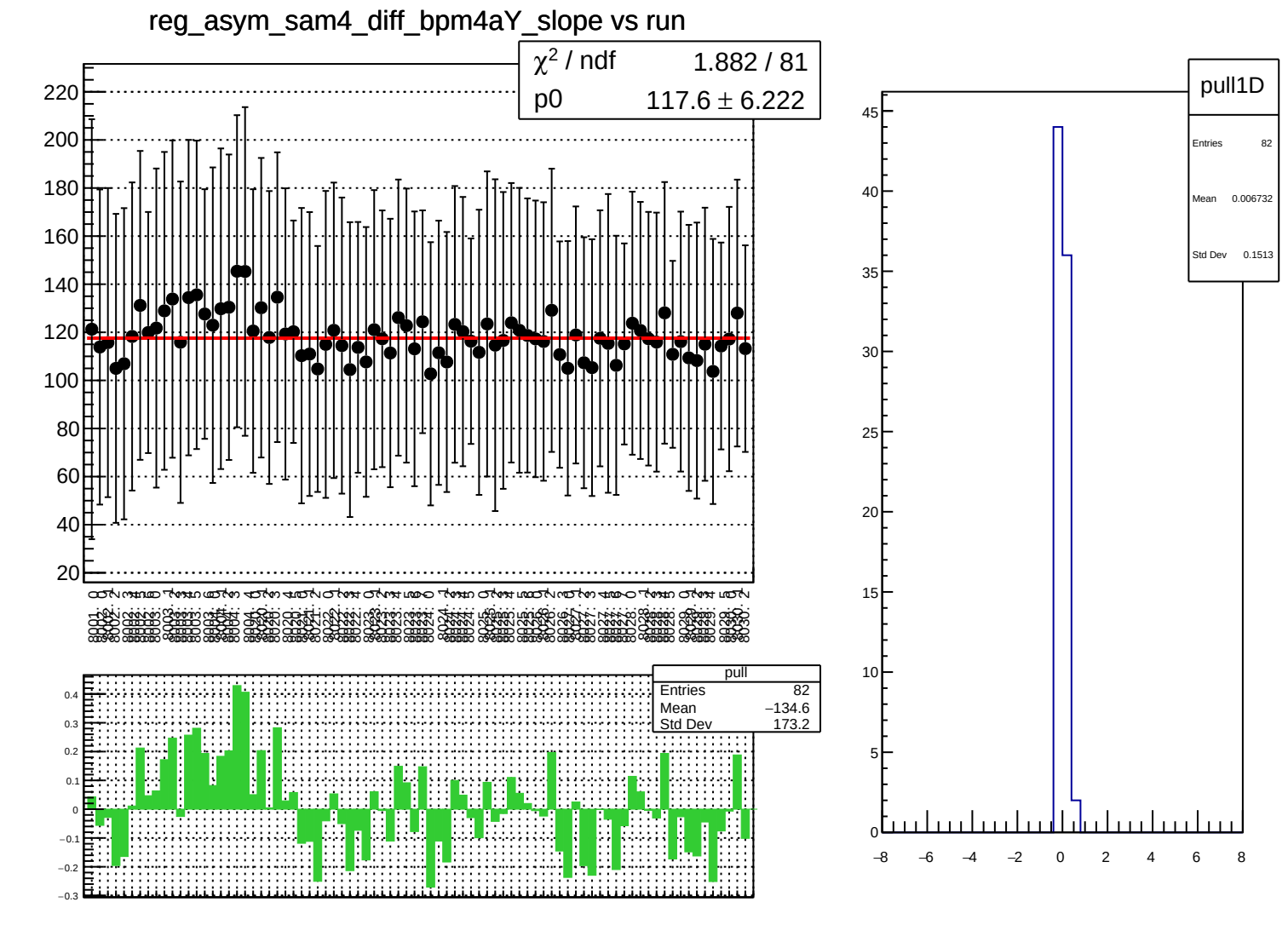

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 14.69 / 81
p0 −54.55 ± 2.088
pull
Entries 82
Mean −65.99
Std Dev 101.9
pull1D
Entries 82
Mean 0.06966
Std Dev 0.4175

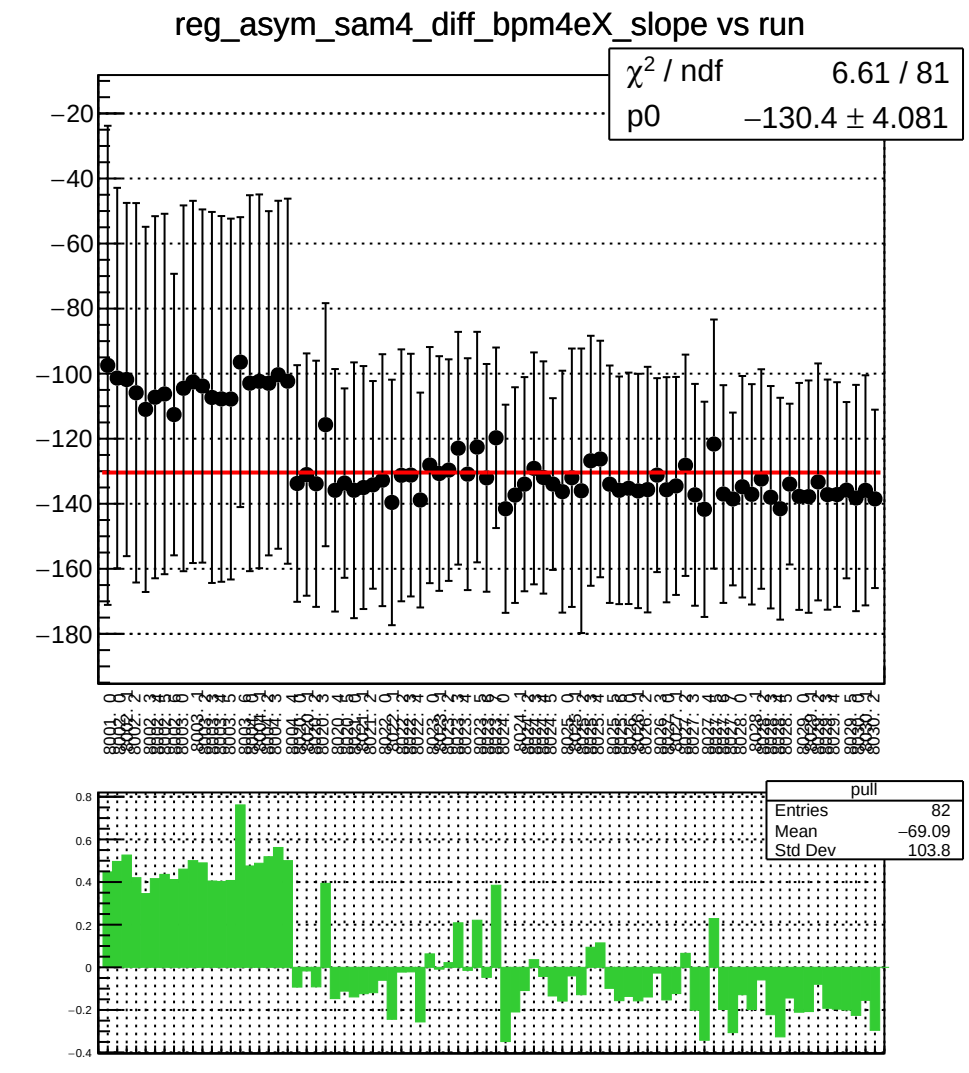

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 5.553 / 81
p0 20.55 ± 3.423
pull
Entries 82
Mean −107.3
Std Dev 147.3

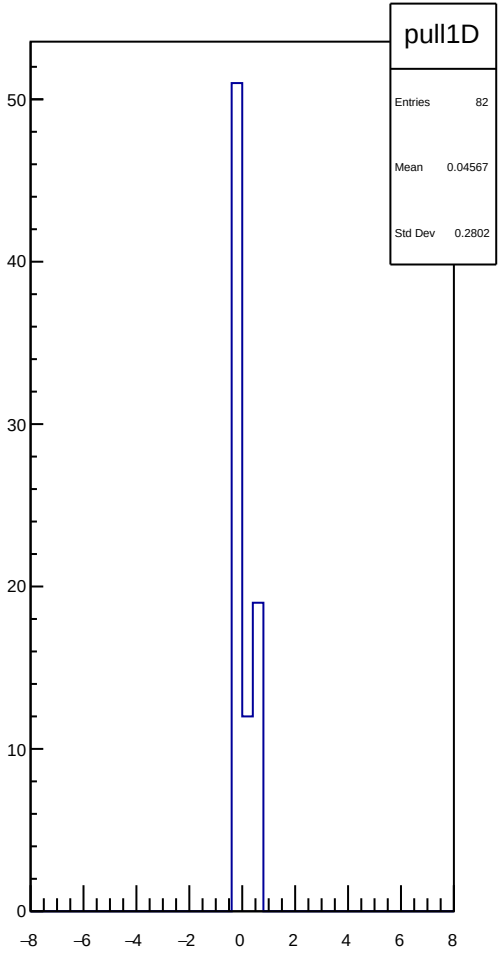

pull1D
Entries 82
Mean −0.0178
Std Dev 0.2596

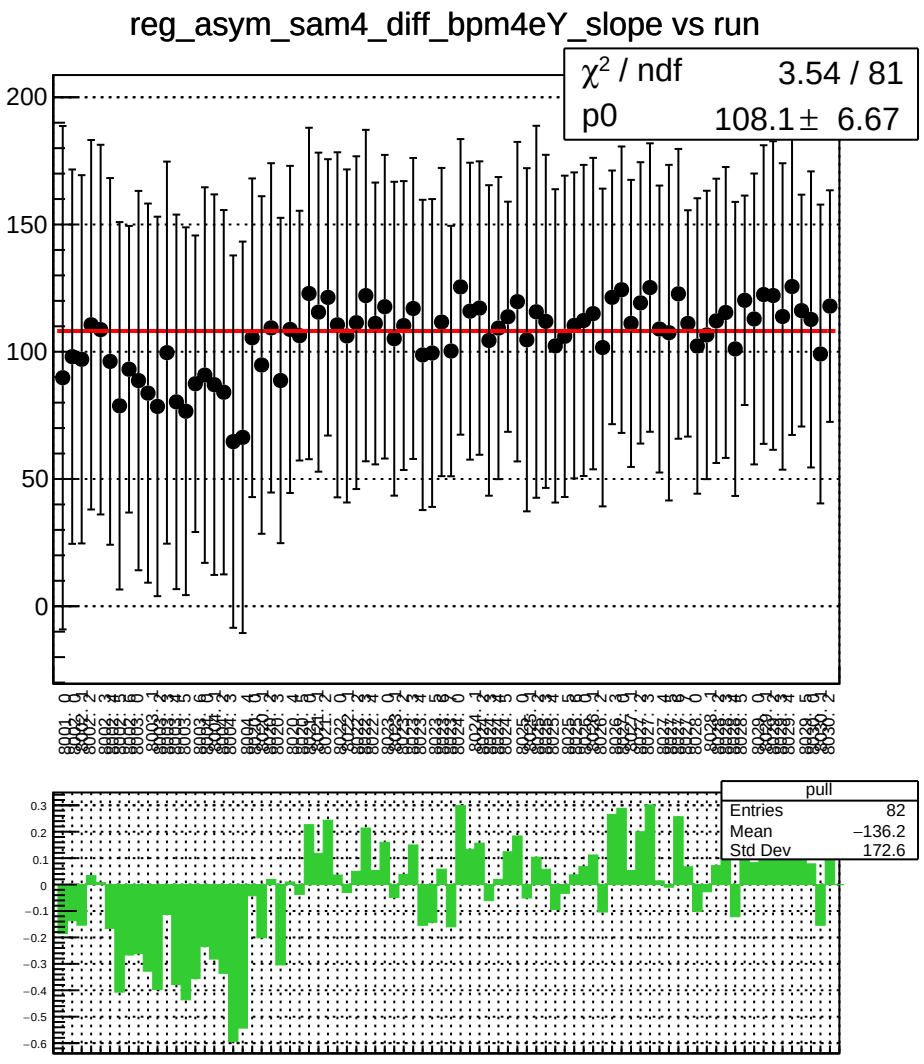

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 116 / 81
p0 0.6891 ± 0.1629
pull
Entries 82
Mean 125.4
Std Dev 87.66
pull1D
Entries 82
Mean 0.2399
Std Dev 1.165

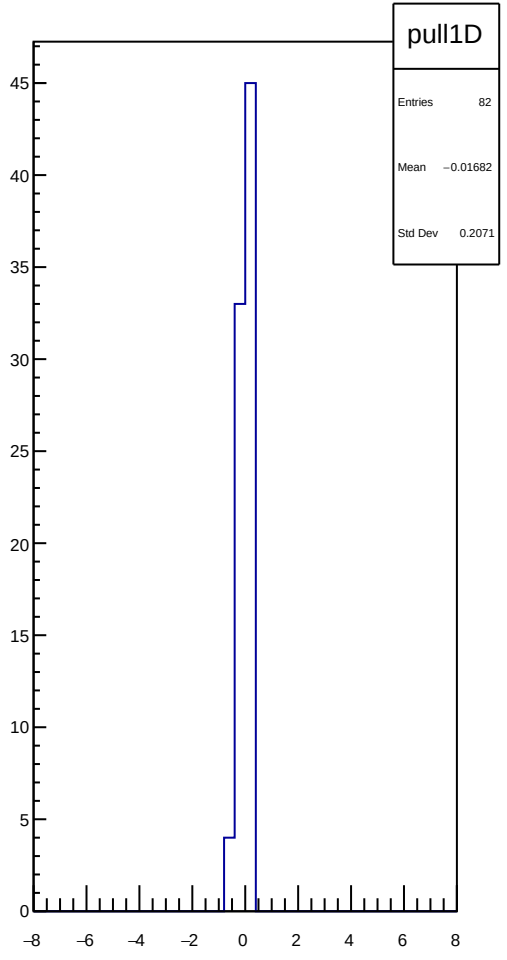

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 11.23 / 81
p0 −43.03 ± 3.892
pull
Entries 82
Mean −42.19
Std Dev 74.62
pull1D
Entries 82
Mean −0.07638
Std Dev 0.3622

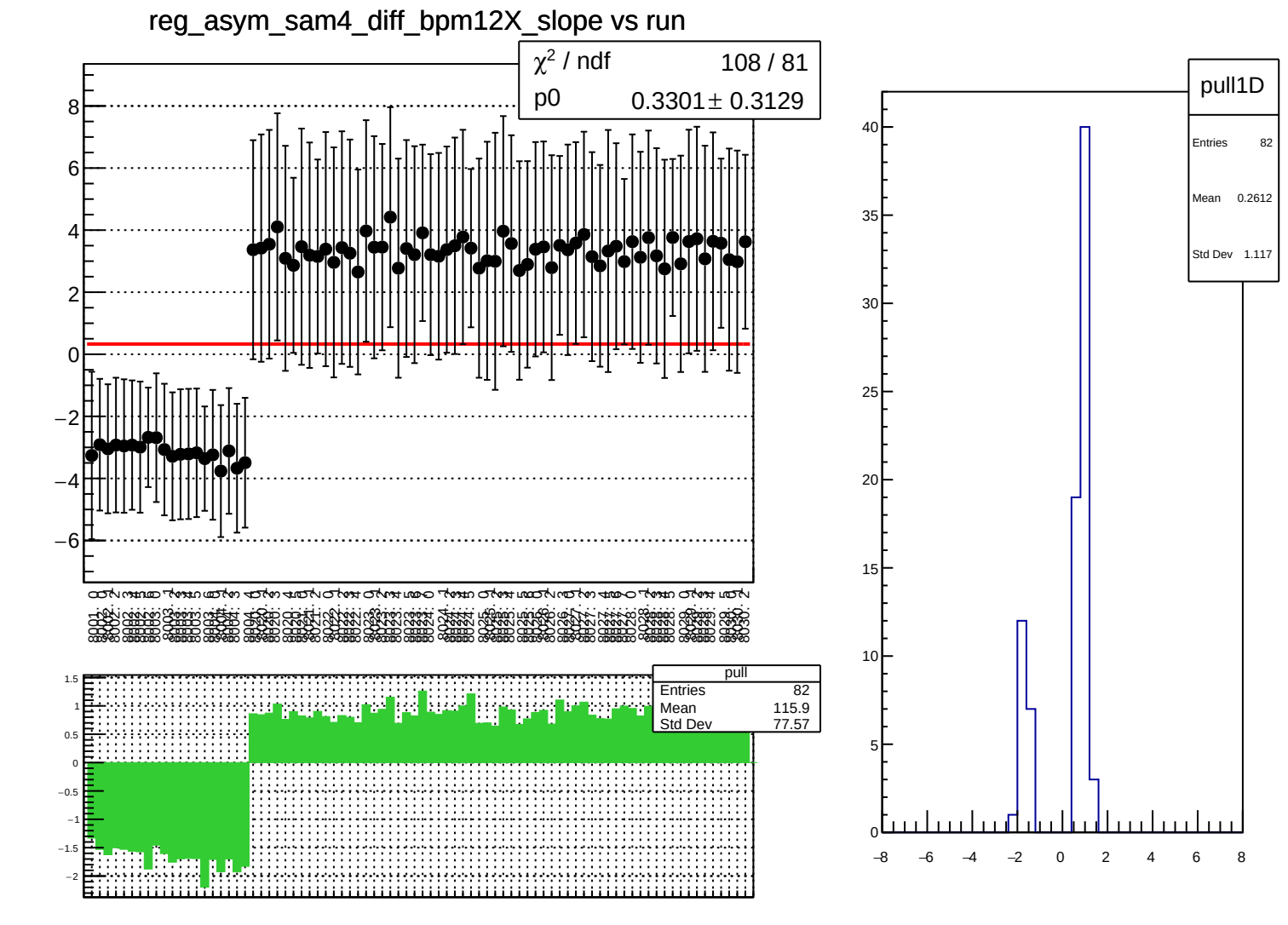

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.882 / 81
p0 117.6 ± 6.222
pull
Entries 82
Mean −134.6
Std Dev 173.2
pull1D
Entries 82
Mean 0.006732
Std Dev 0.1513

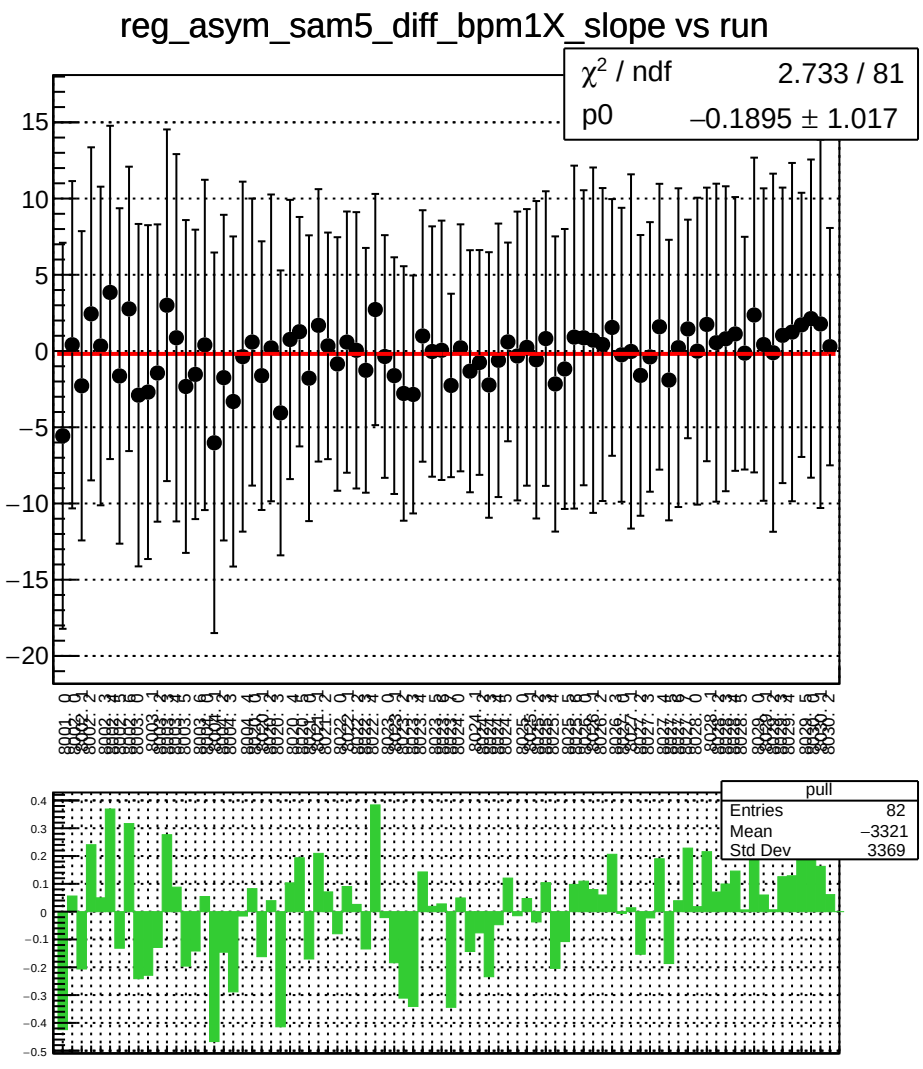

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 6.61 / 81
p0 −130.4 ± 4.081
pull
Entries 82
Mean −69.09
Std Dev 103.8

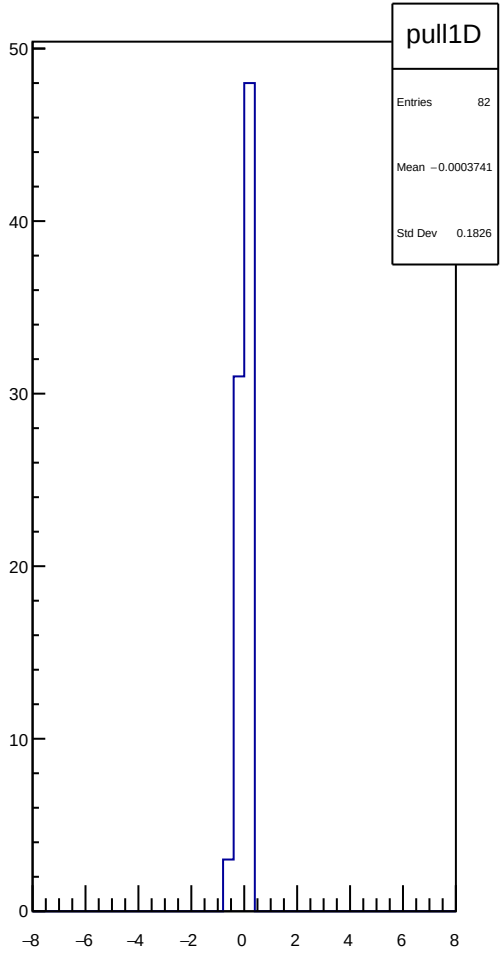

pull1D
Entries 82
Mean 0.04567
Std Dev 0.2802

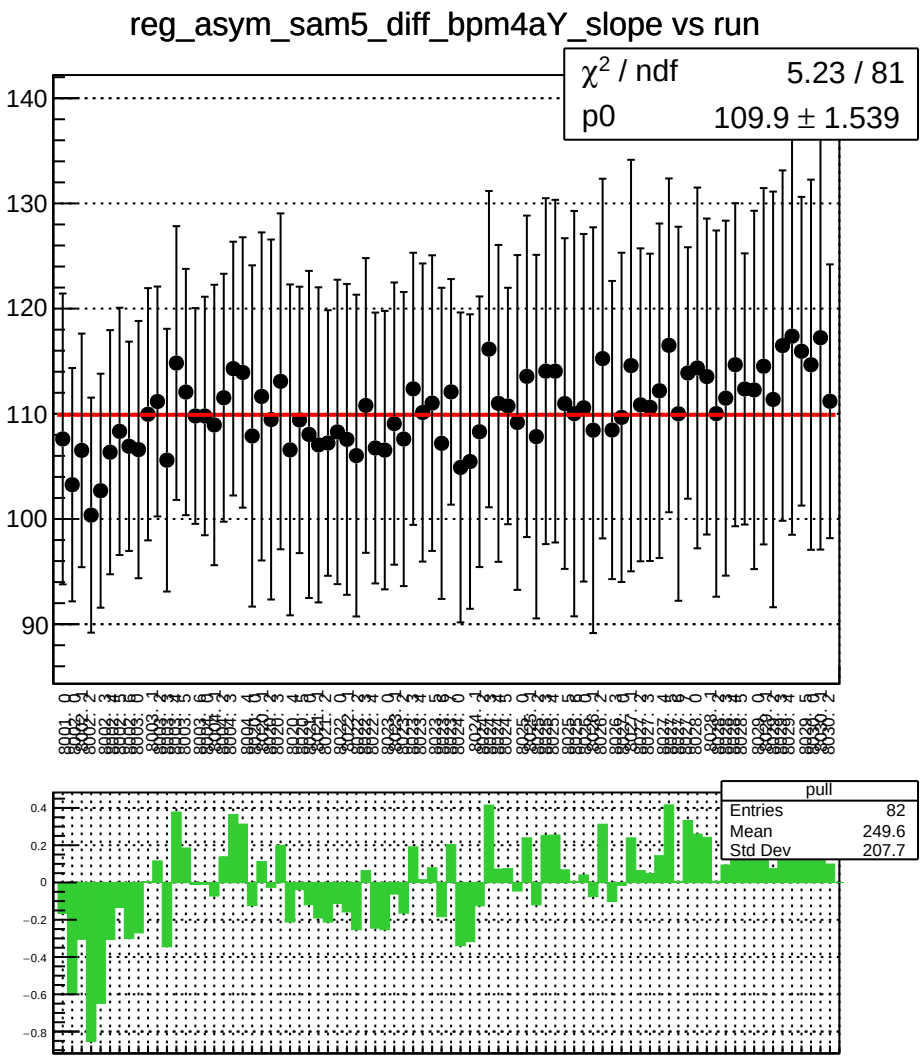

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 3.54 / 81
p0 108.1 ± 6.67
200
150
100
50
0
pull
Entries 82
Mean −136.2
Std Dev 172.6
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6

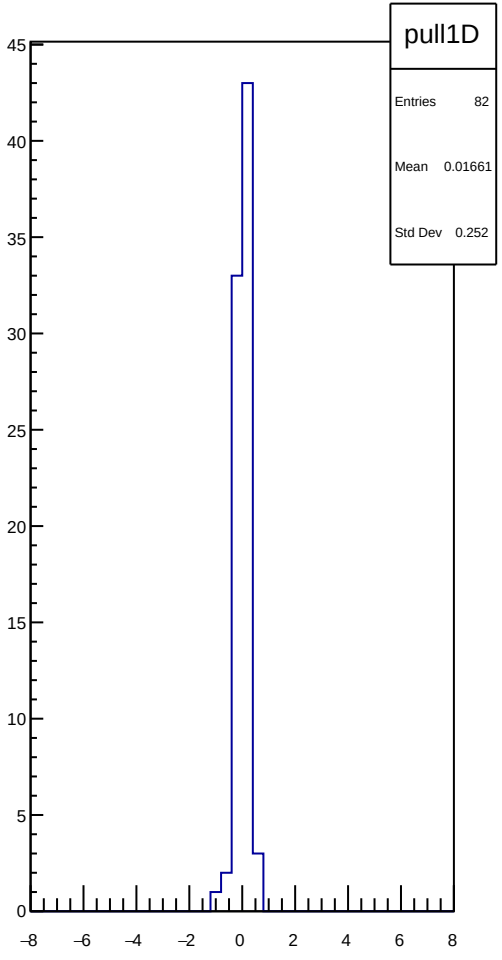

pull1D
Entries 82
Mean −0.01682
Std Dev 0.2071
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

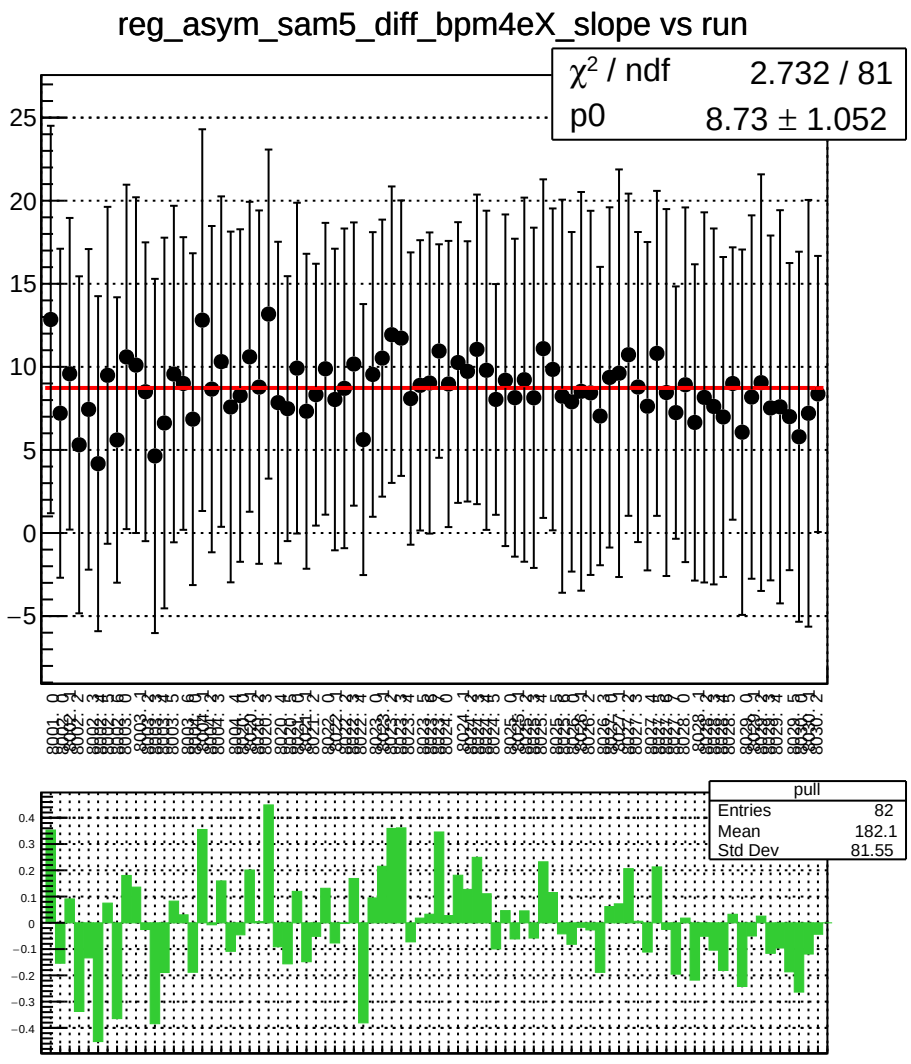

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 108 / 81
p0 0.3301 ± 0.3129
pull
Entries 82
Mean 115.9
Std Dev 77.57
pull1D
Entries 82
Mean 0.2612
Std Dev 1.117

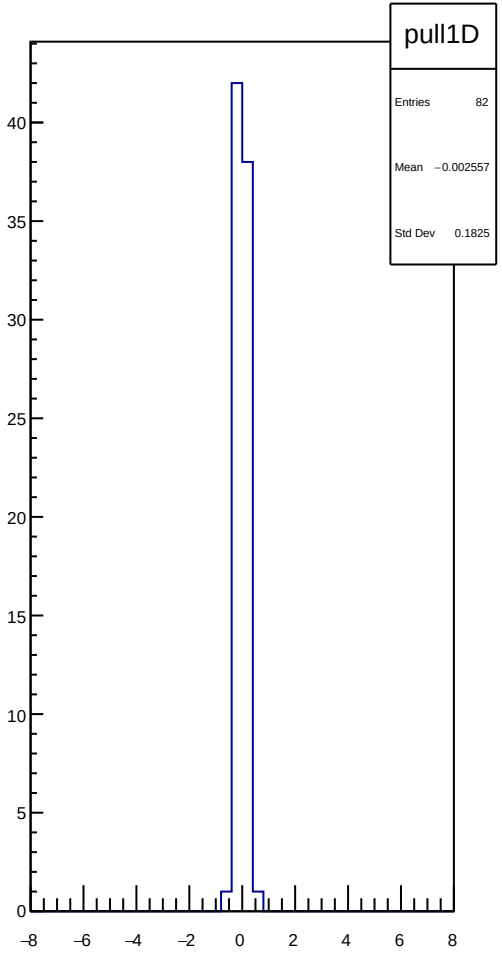

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 2.733 / 81
p0 −0.1895 ± 1.017
pull
Entries 82
Mean −3321
Std Dev 3369

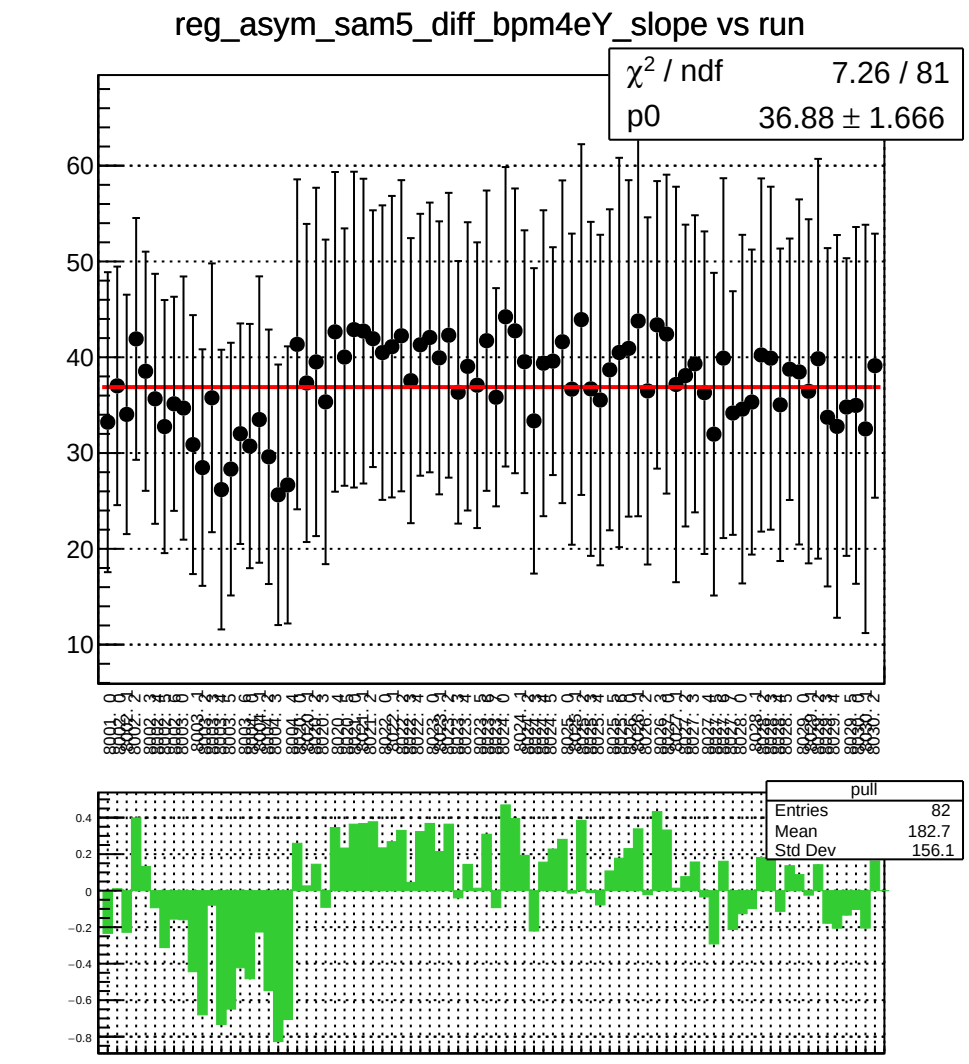

pull1D
Entries 82
Mean −0.0003741
Std Dev 0.1826

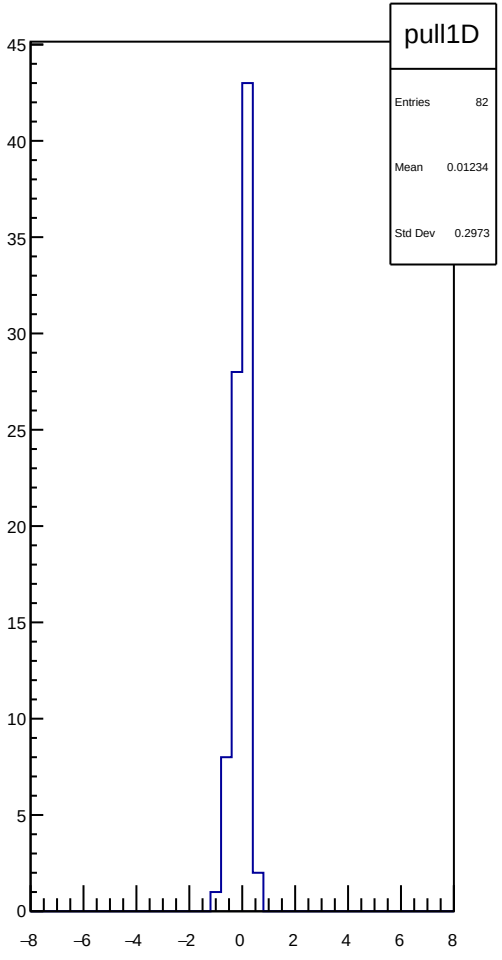

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 5.23 / 81
p0 109.9 ± 1.539
pull
Entries 82
Mean 249.6
Std Dev 207.7

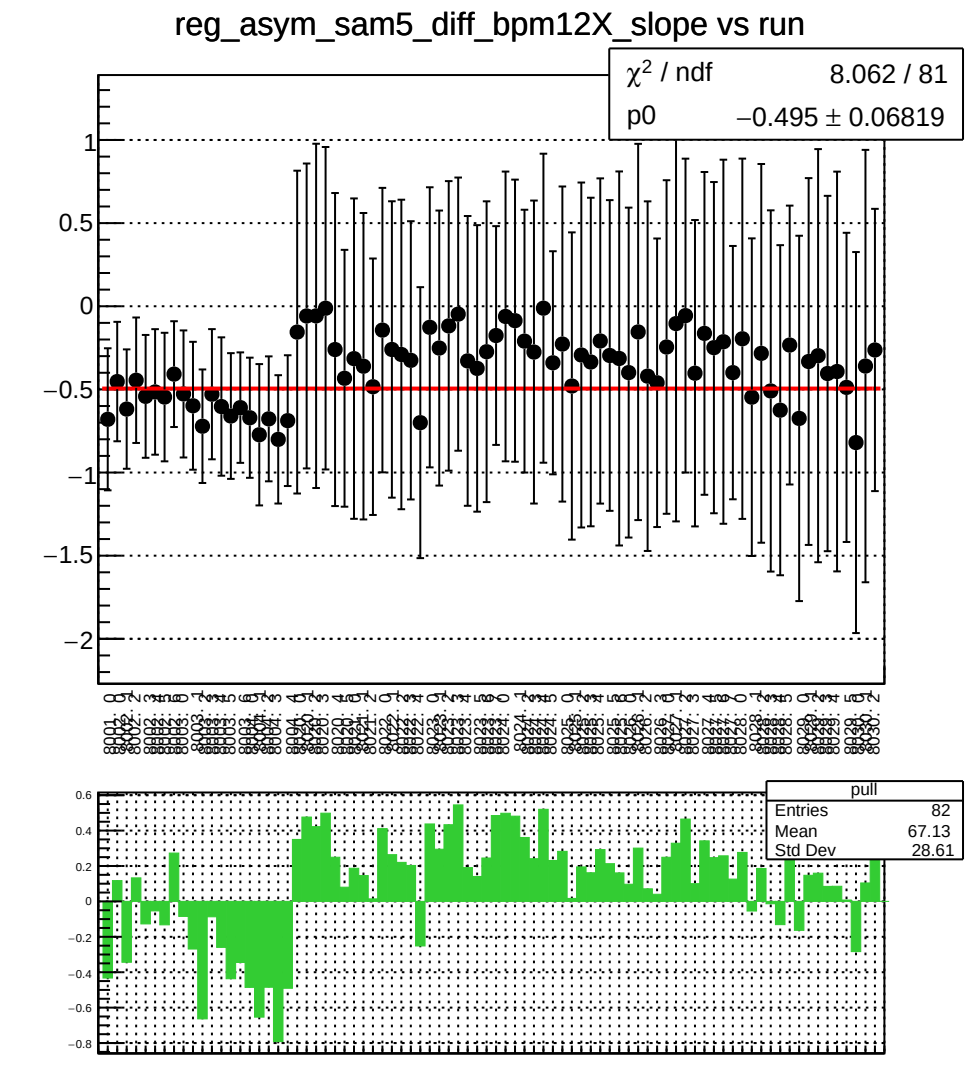

pull1D
Entries 82
Mean 0.01661
Std Dev 0.252

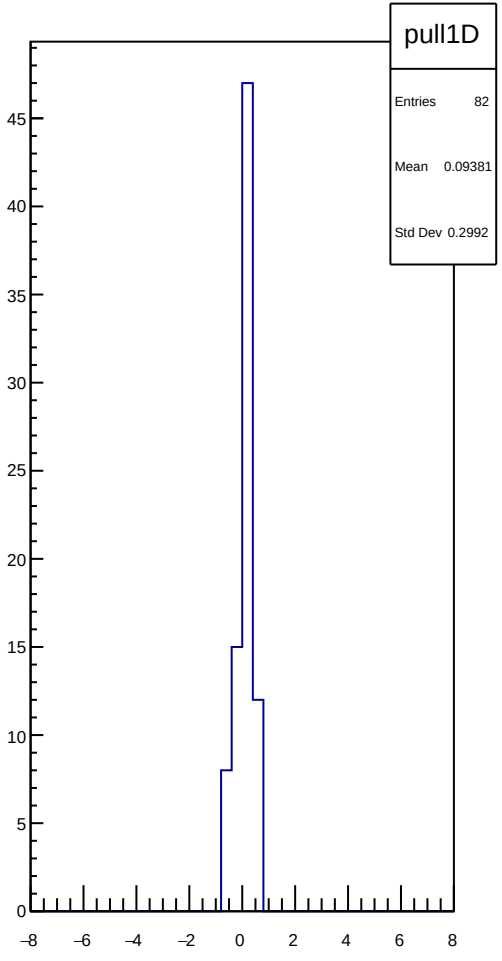

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 2.732 / 81
p0 8.73 ± 1.052
pull
Entries 82
Mean 182.1
Std Dev 81.55

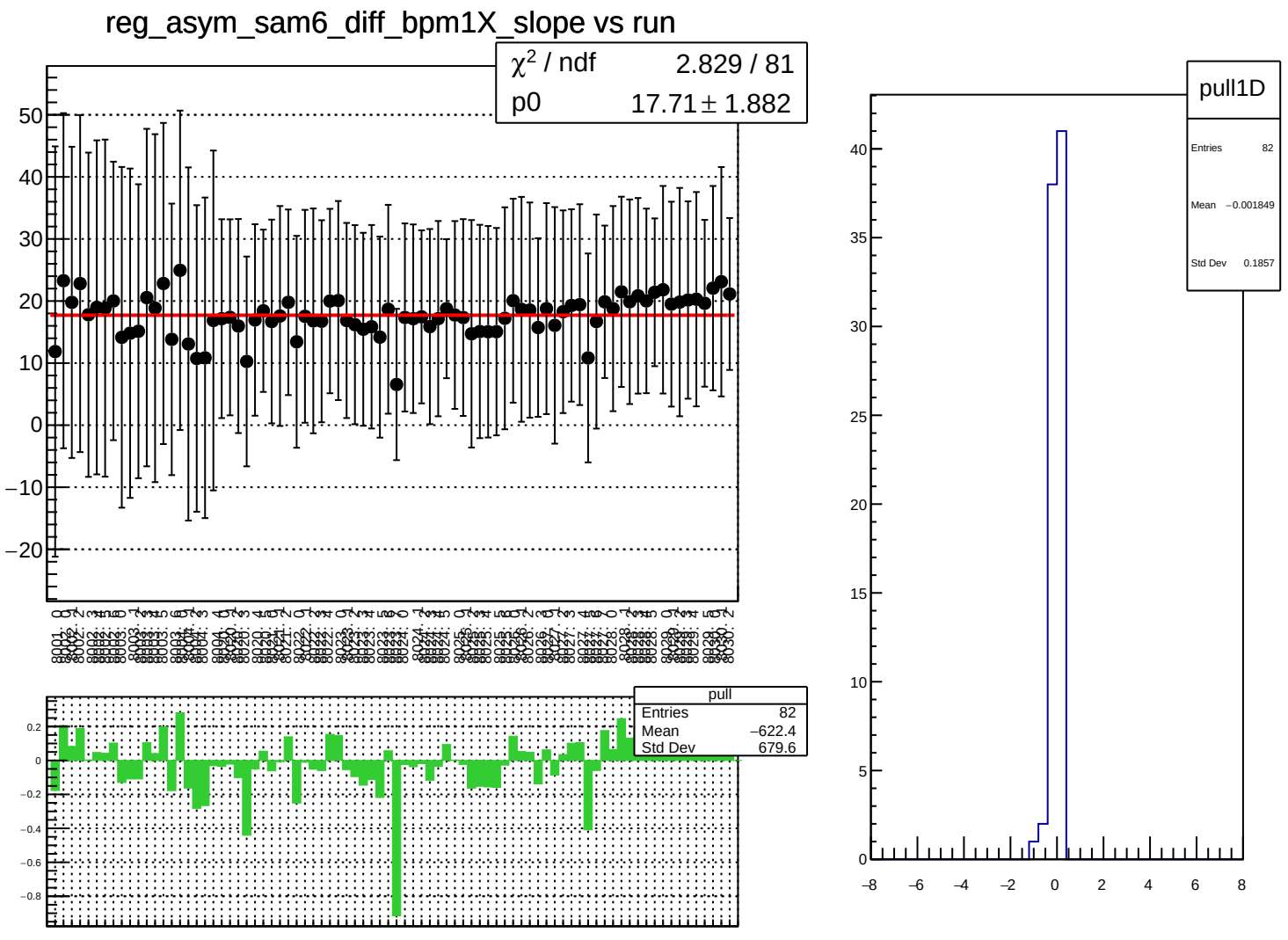

pull1D
Entries 82
Mean −0.002557
Std Dev 0.1825

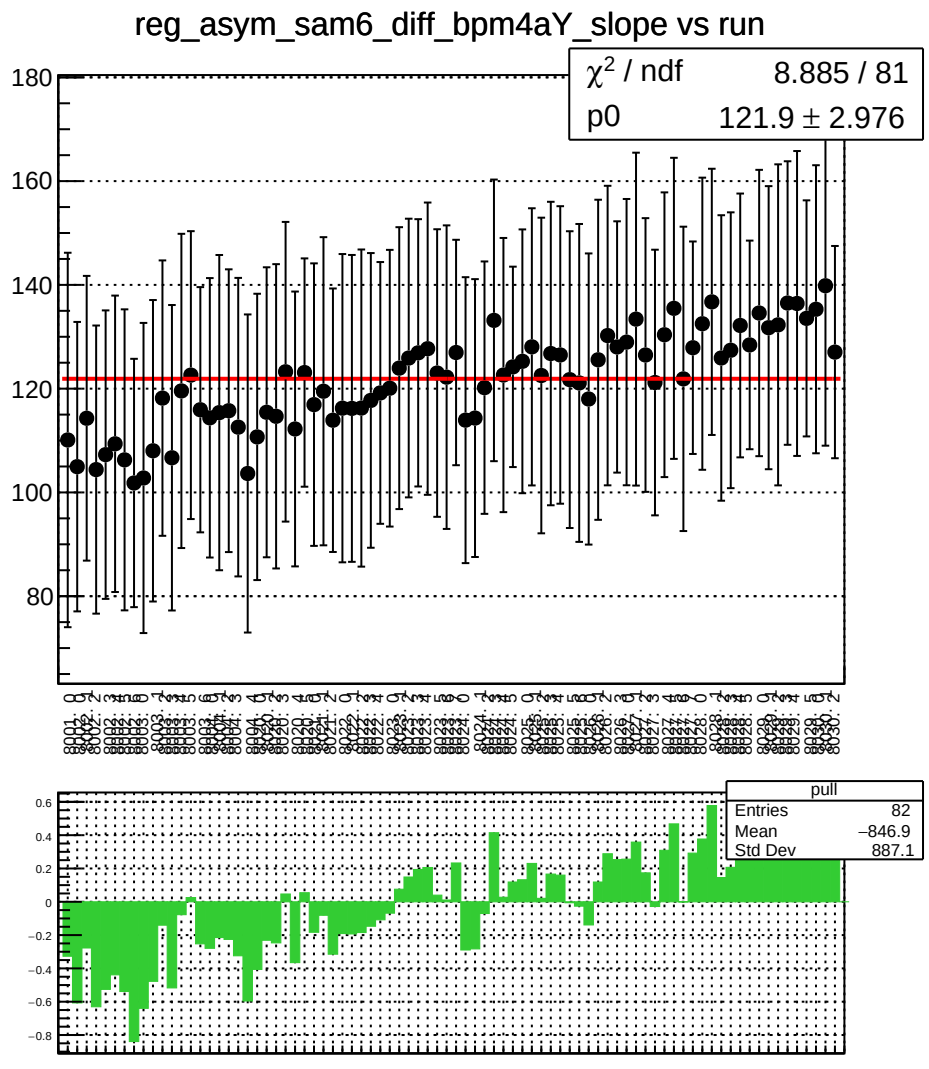

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 7.26 / 81
p0 36.88 ± 1.666
pull
Entries 82
Mean 182.7
Std Dev 156.1

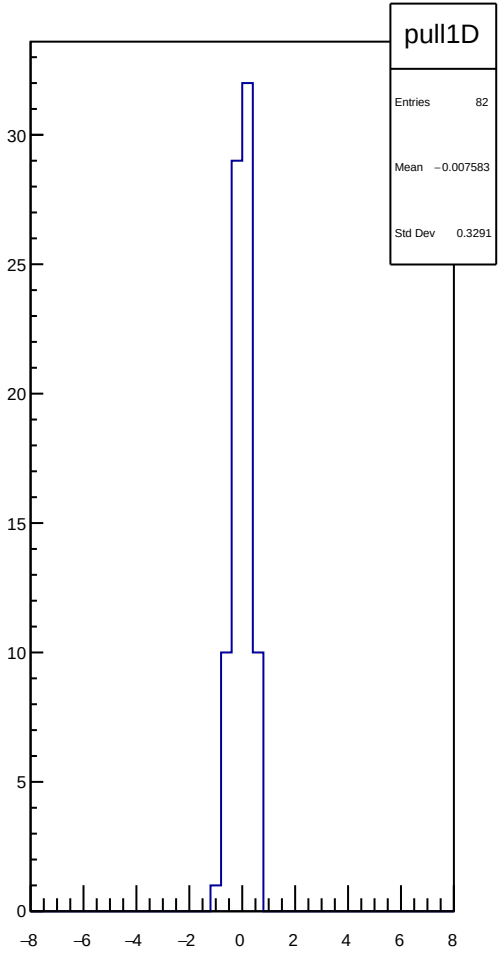

pull1D
Entries 82
Mean 0.01234
Std Dev 0.2973

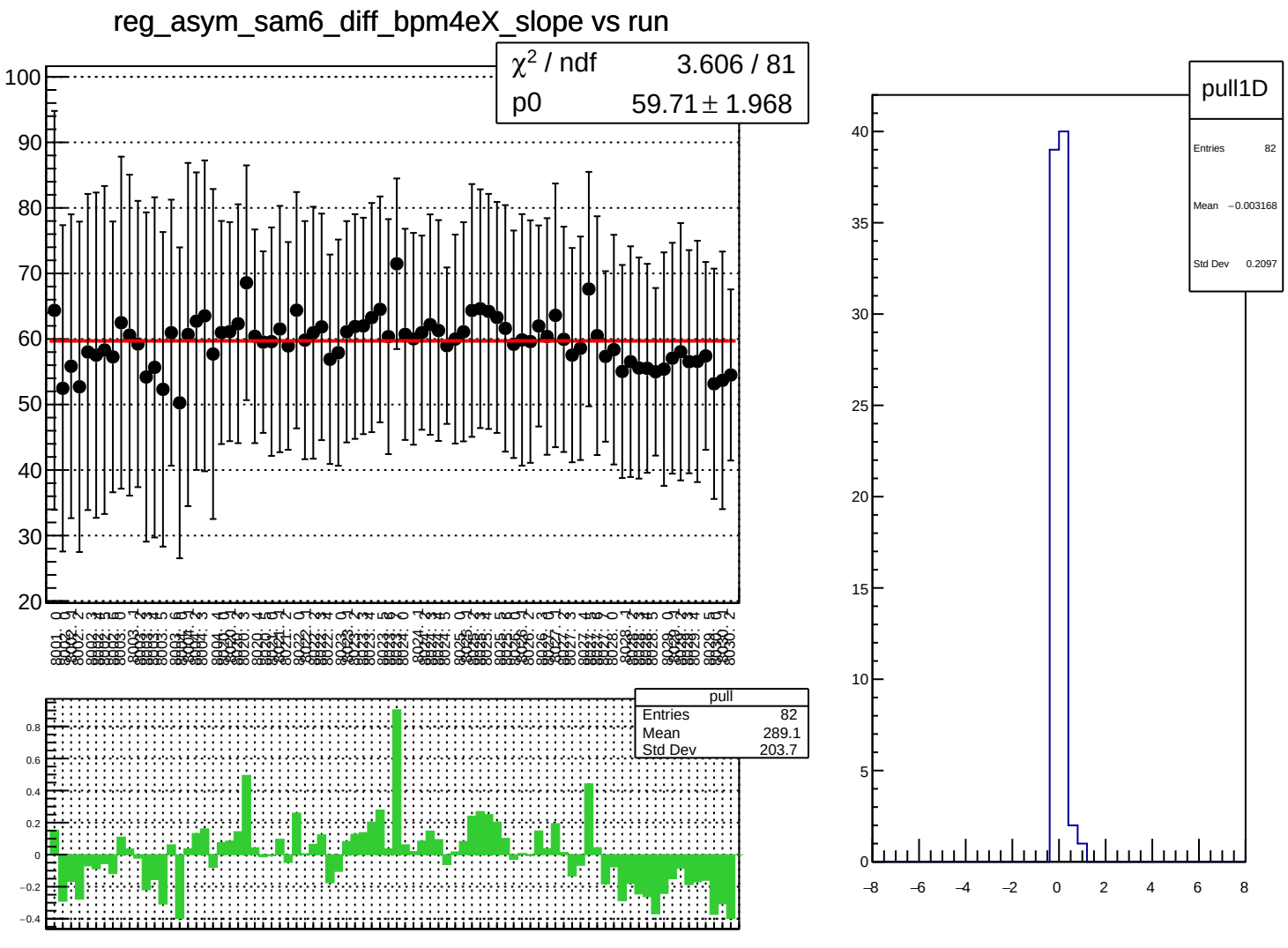

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 8.062 / 81
p0 −0.495 ± 0.06819
pull
Entries 82
Mean 67.13
Std Dev 28.61

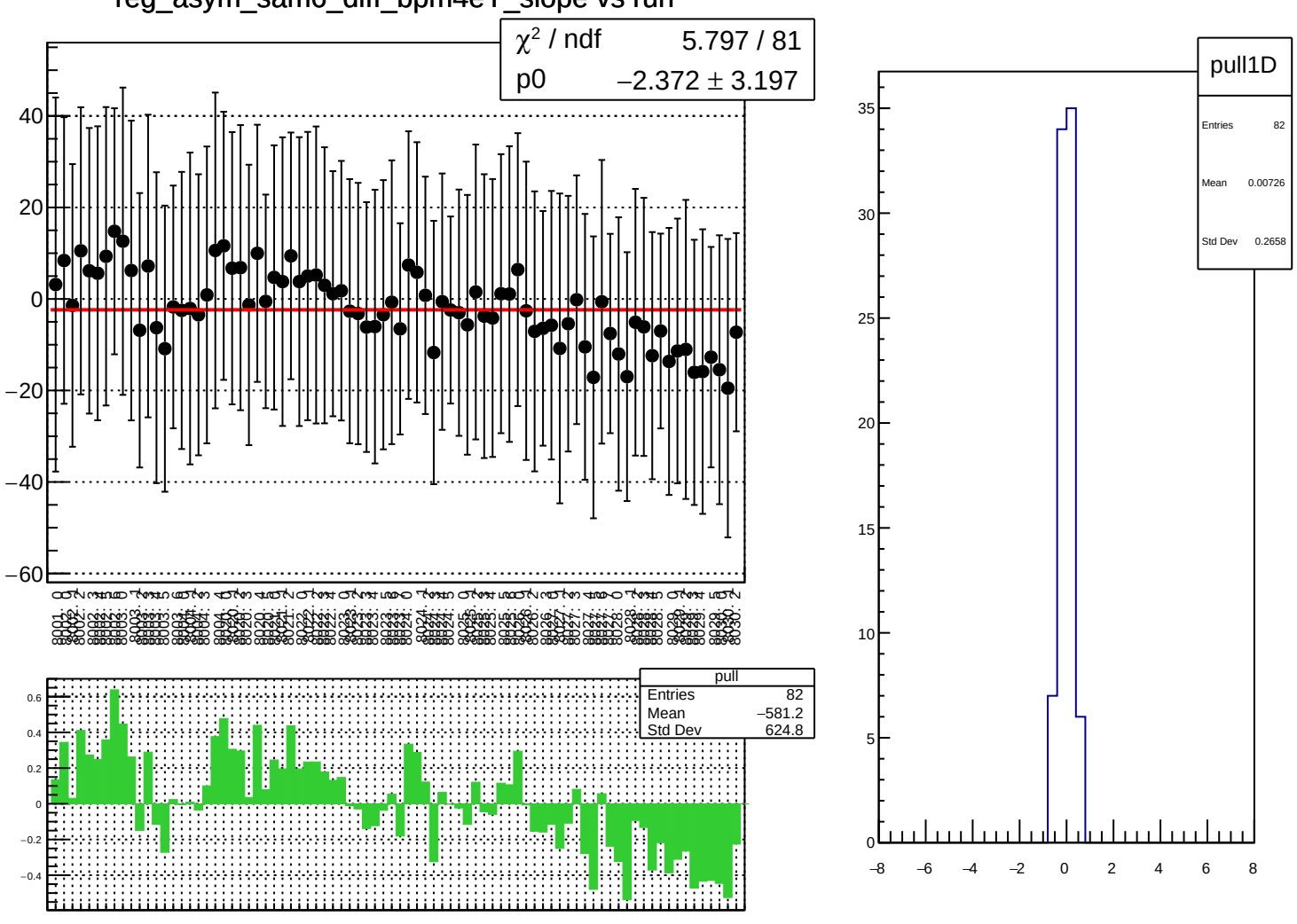

pull1D
Entries 82
Mean 0.09381
Std Dev 0.2992

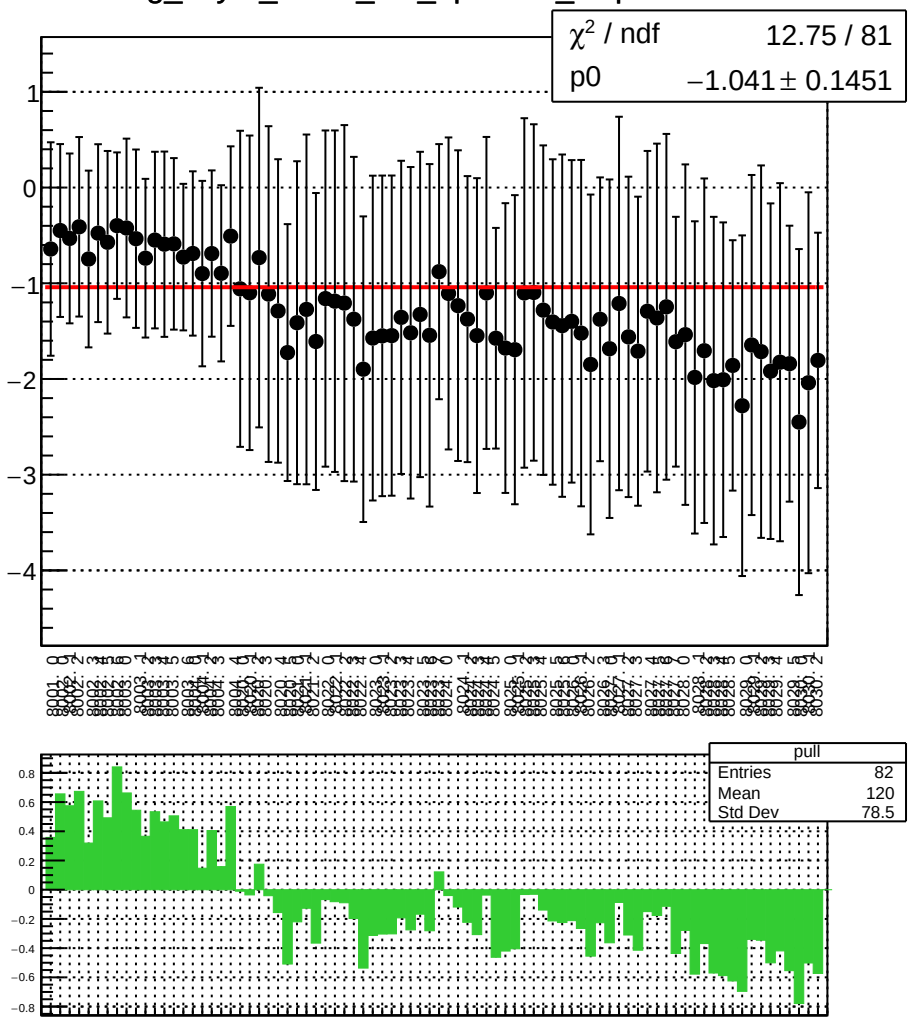

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 2.829 / 81
p0 17.71 ± 1.882
pull
Entries 82
Mean −622.4
Std Dev 679.6
pull1D
Entries 82
Mean −0.001849
Std Dev 0.1857

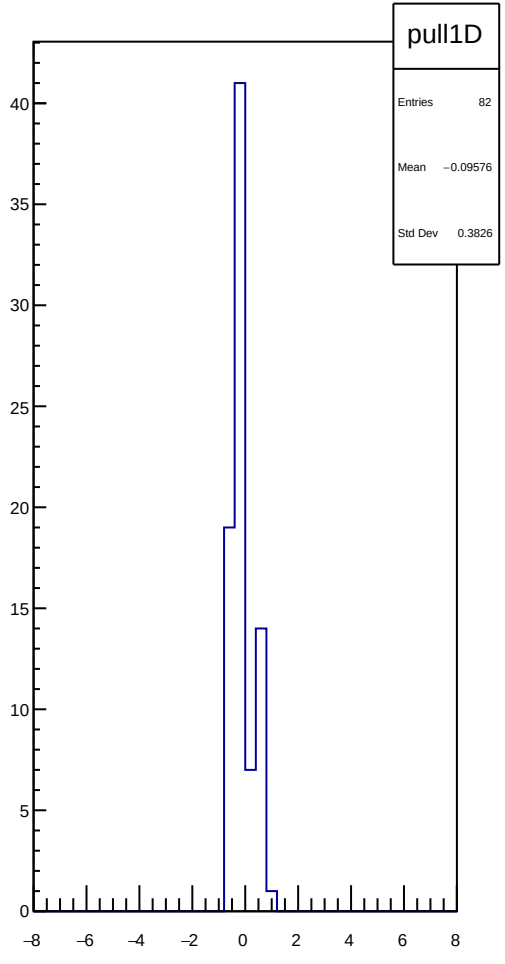

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 8.885 / 81
p0 121.9 ± 2.976
pull
Entries 82
Mean −846.9
Std Dev 887.1

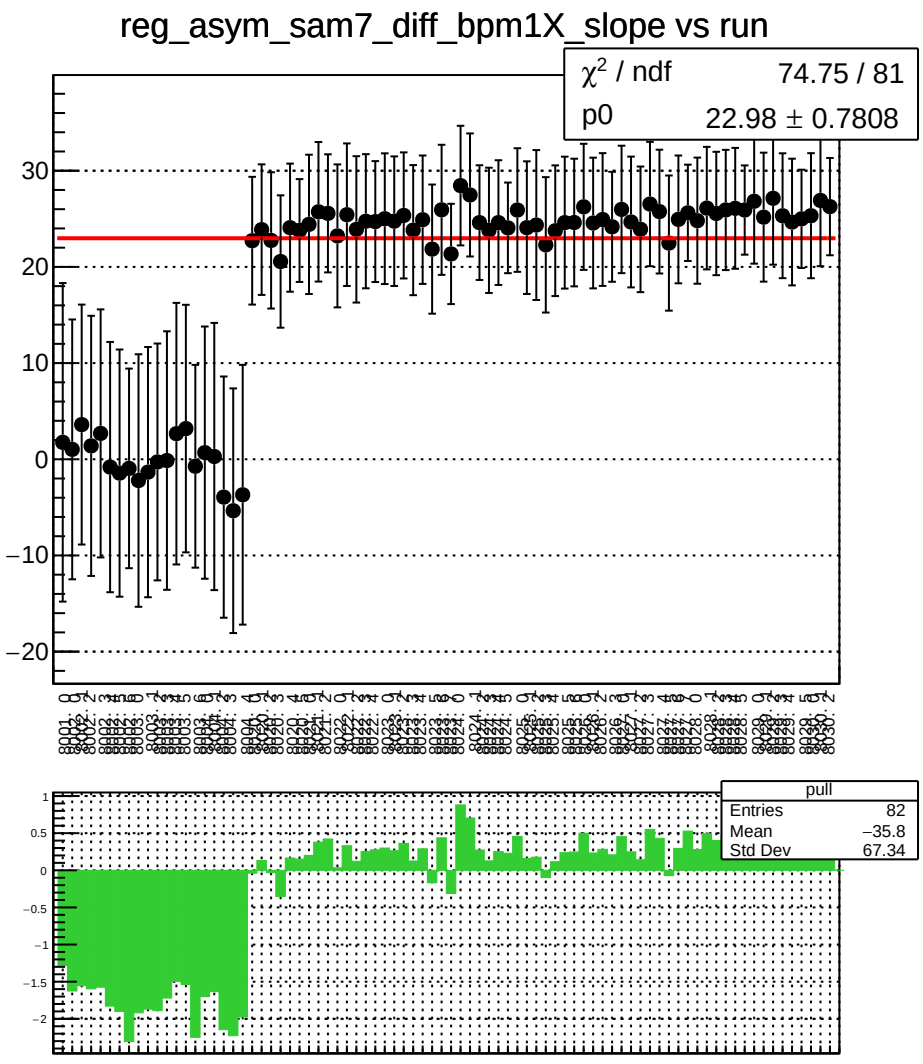

pull1D
Entries 82
Mean −0.007583
Std Dev 0.3291

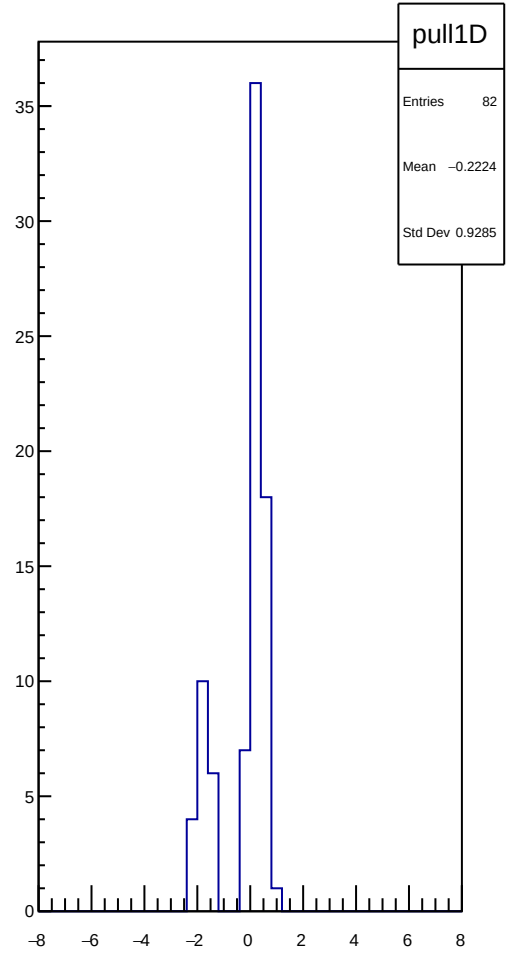

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 3.606 / 81
p0 59.71 ± 1.968
pull
Entries 82
Mean 289.1
Std Dev 203.7
pull1D
Entries 82
Mean −0.003168
Std Dev 0.2097

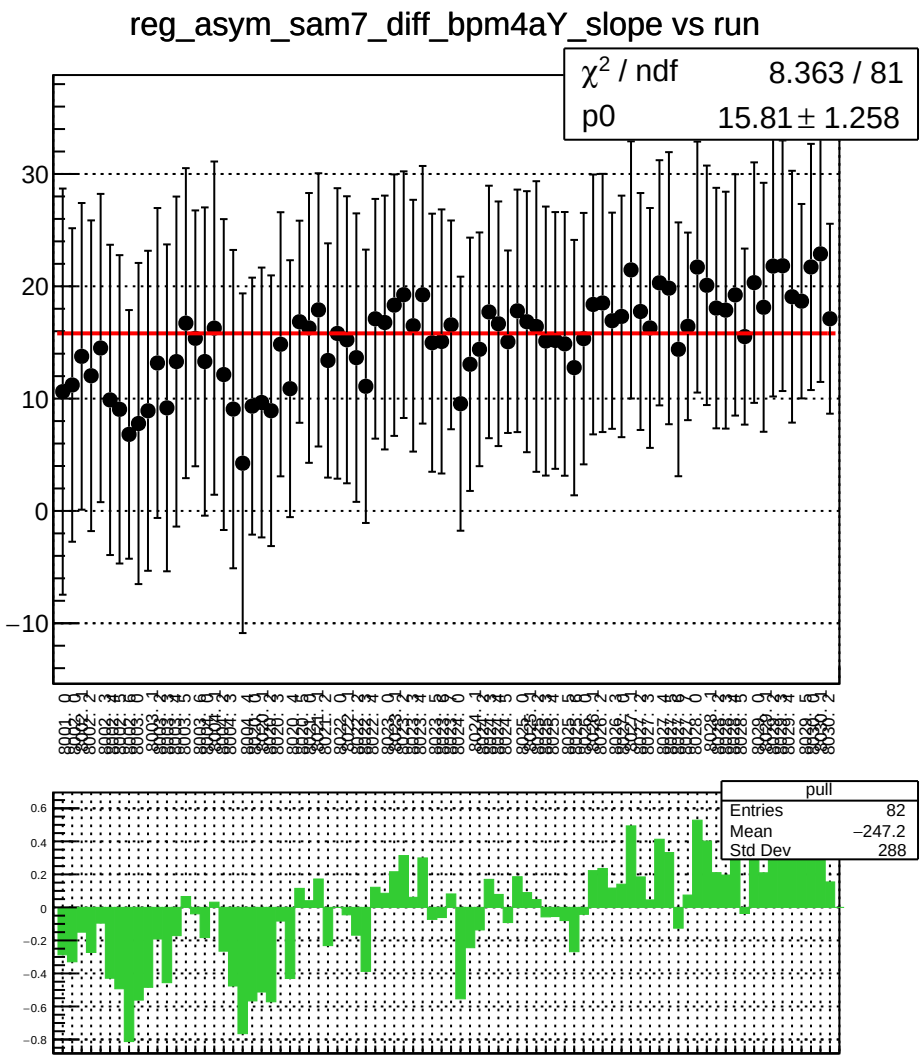

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 5.797 / 81
p0 −2.372 ± 3.197
pull
Entries 82
Mean −581.2
Std Dev 624.8
pull1D
Entries 82
Mean 0.00726
Std Dev 0.2658

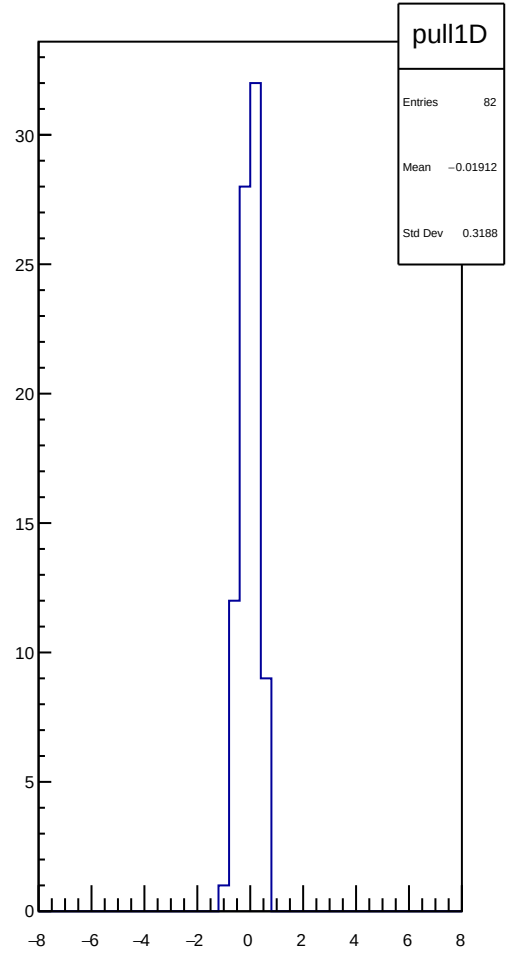

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 12.75 / 81
p0 −1.041 ± 0.1451
pull
Entries 82
Mean 120
Std Dev 78.5

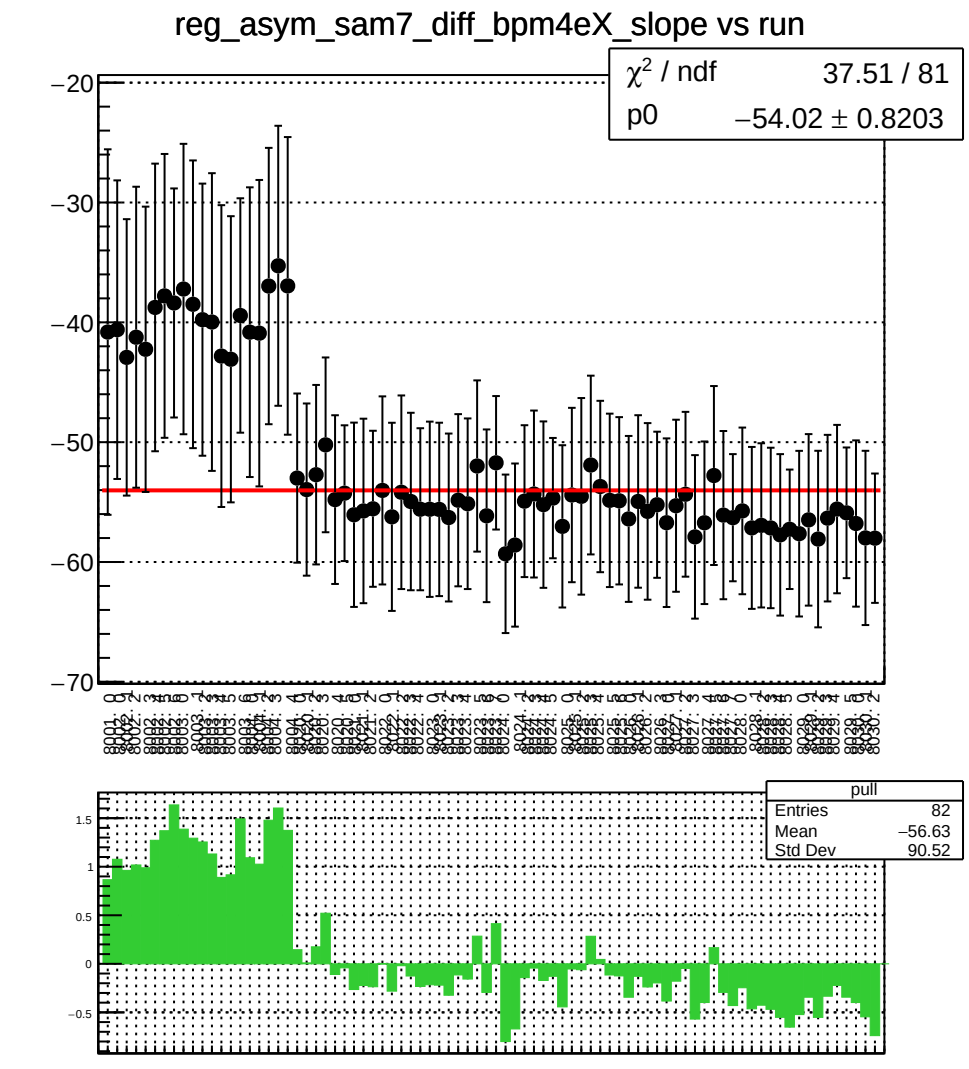

pull1D
Entries 82
Mean −0.09576
Std Dev 0.3826

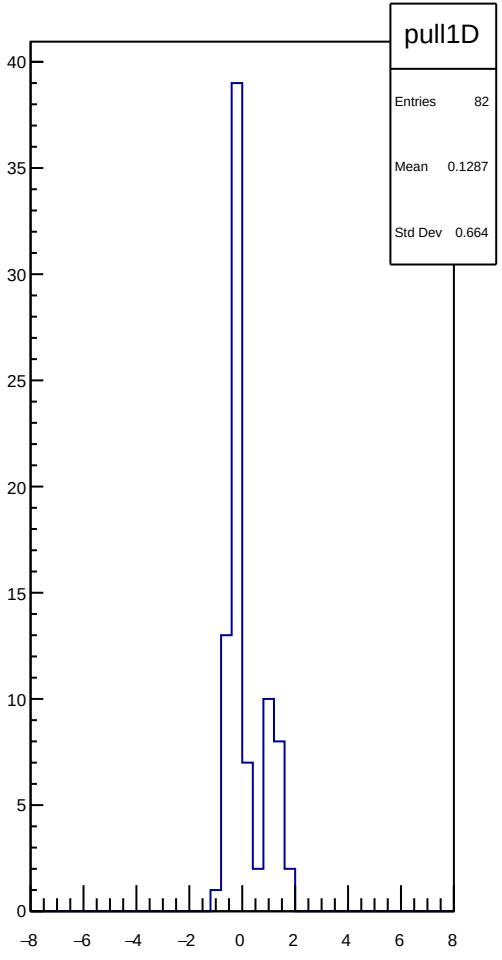

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 74.75 / 81
p0 22.98 ± 0.7808
pull
Entries 82
Mean −35.8
Std Dev 67.34

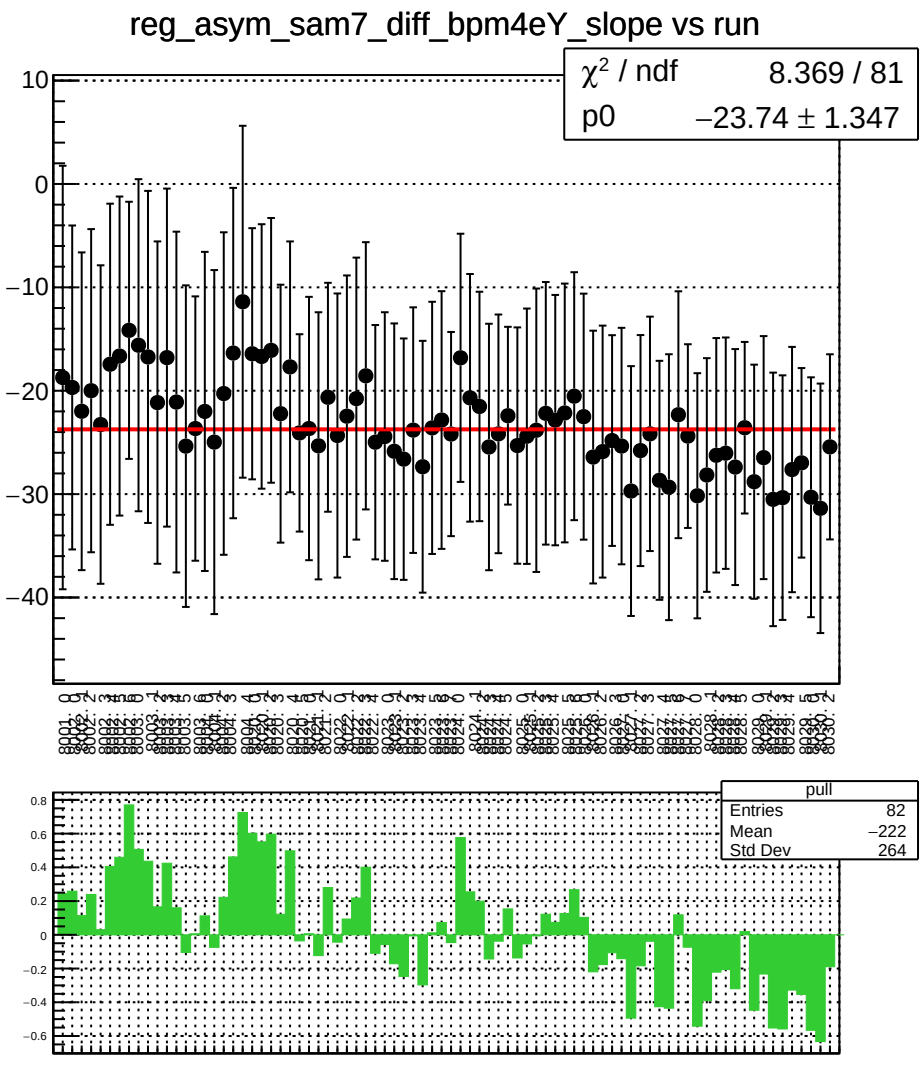

pull1D
Entries 82
Mean −0.2224
Std Dev 0.9285

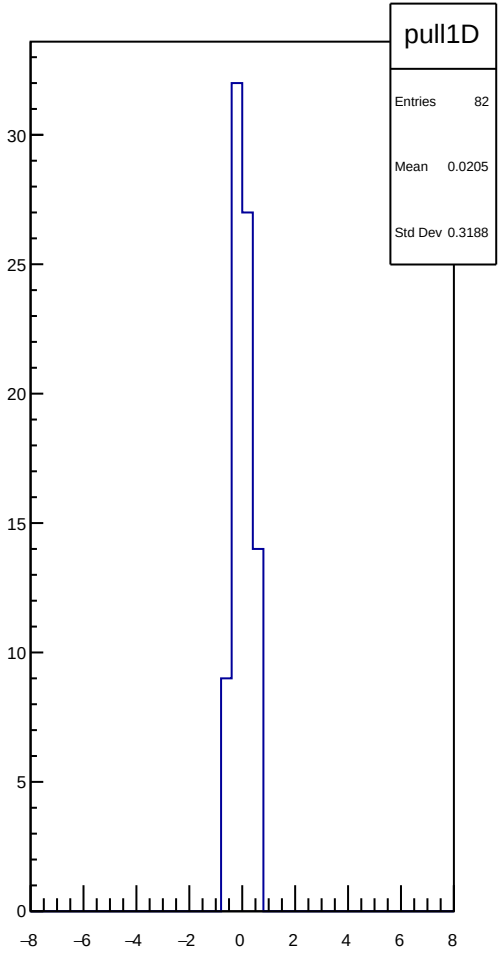

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 8.363 / 81
p0 15.81 ± 1.258
pull
Entries 82
Mean −247.2
Std Dev 288

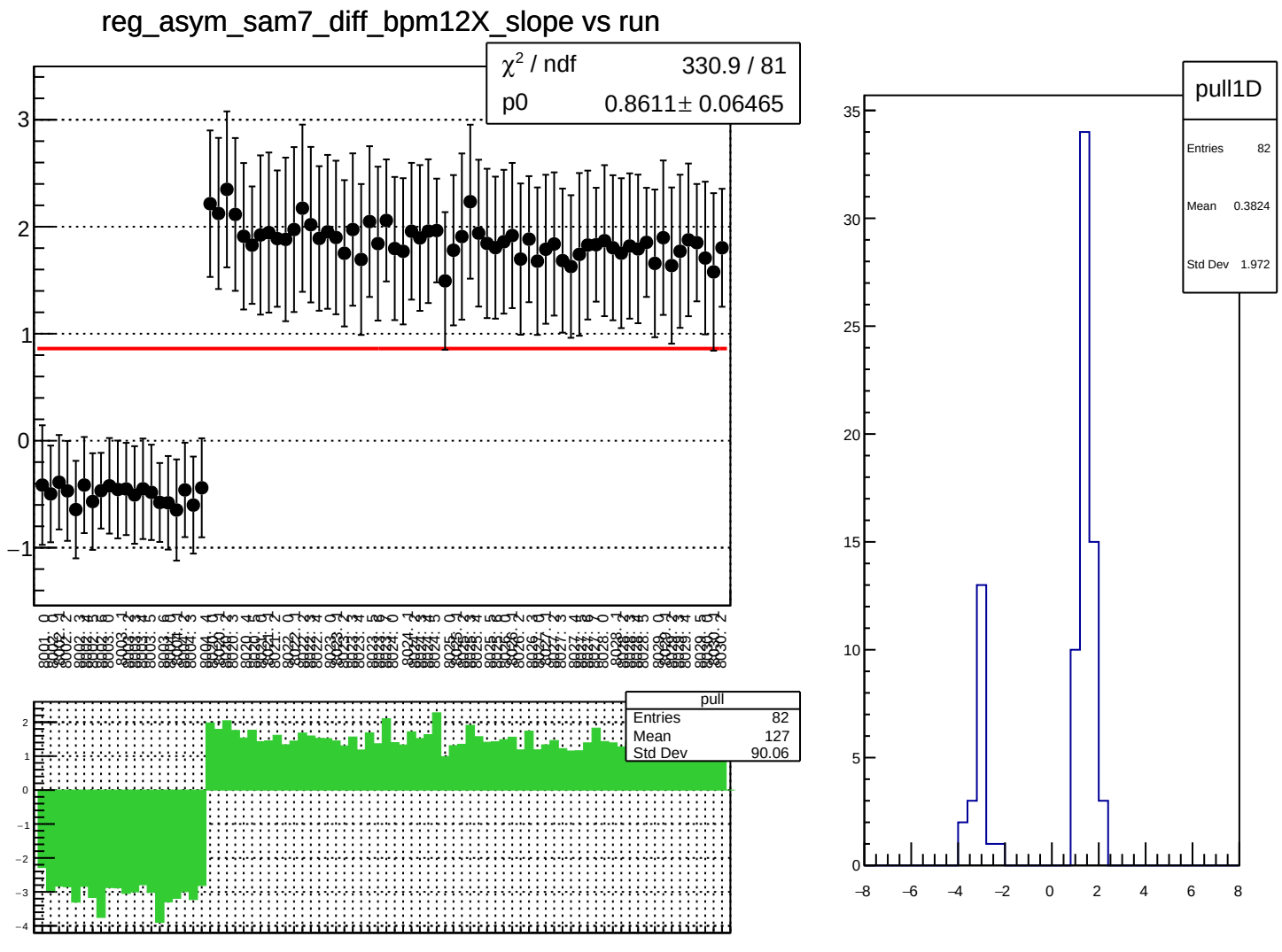

pull1D
Entries 82
Mean −0.01912
Std Dev 0.3188

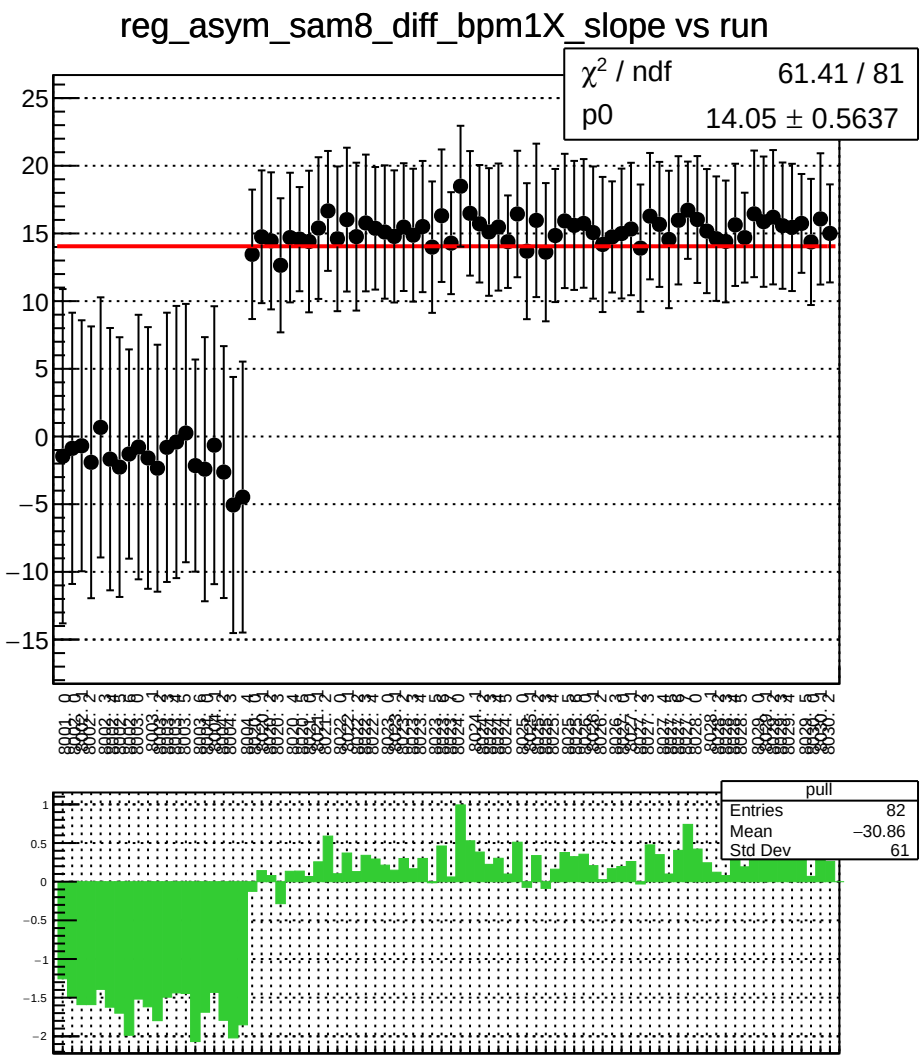

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 37.51 / 81
p0 −54.02 ± 0.8203
pull
Entries 82
Mean −56.63
Std Dev 90.52

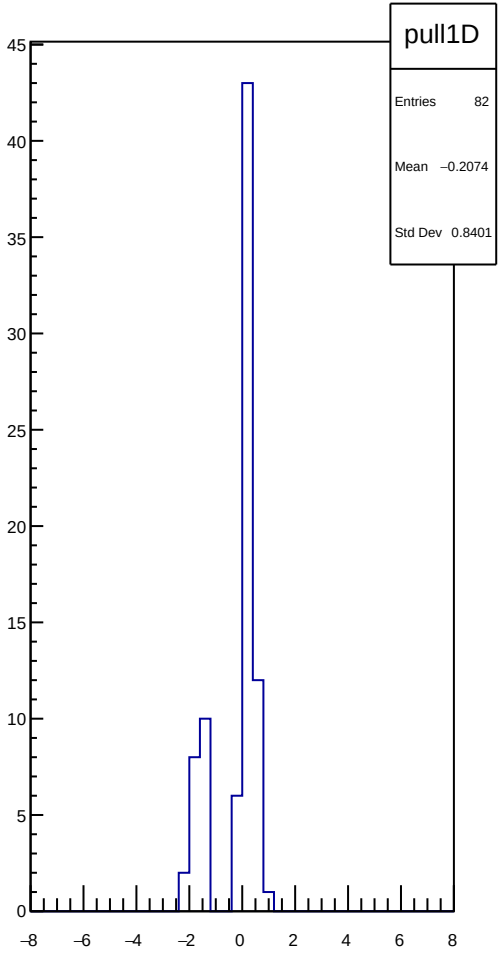

pull1D
Entries 82
Mean 0.1287
Std Dev 0.664

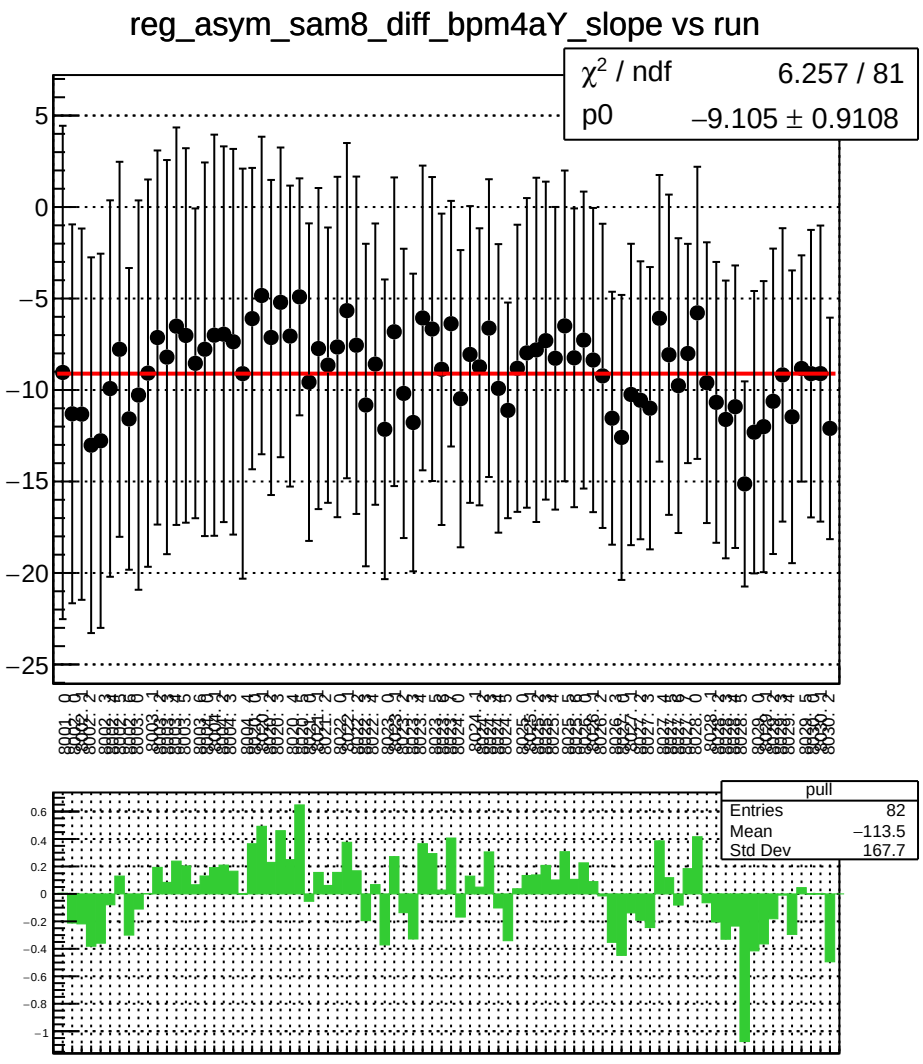

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 8.369 / 81
p0 −23.74 ± 1.347
pull
Entries 82
Mean −222
Std Dev 264

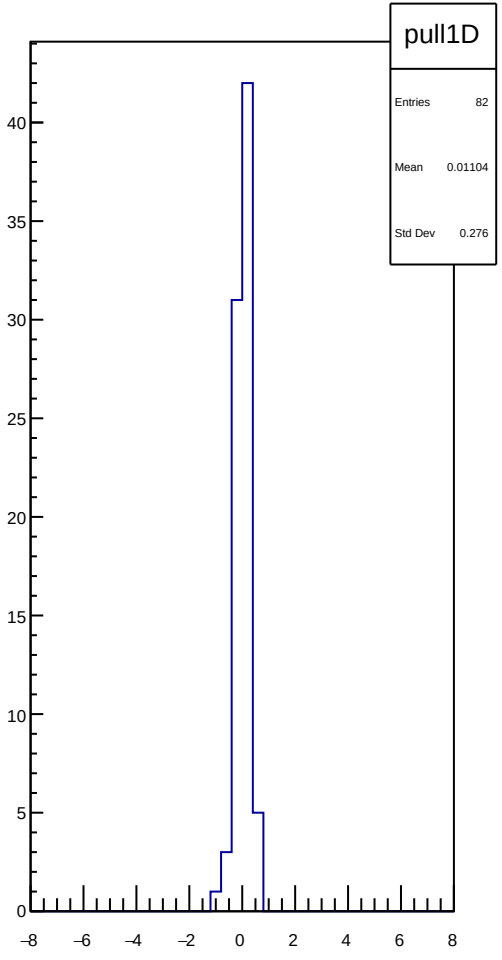

pull1D
Entries 82
Mean 0.0205
Std Dev 0.3188

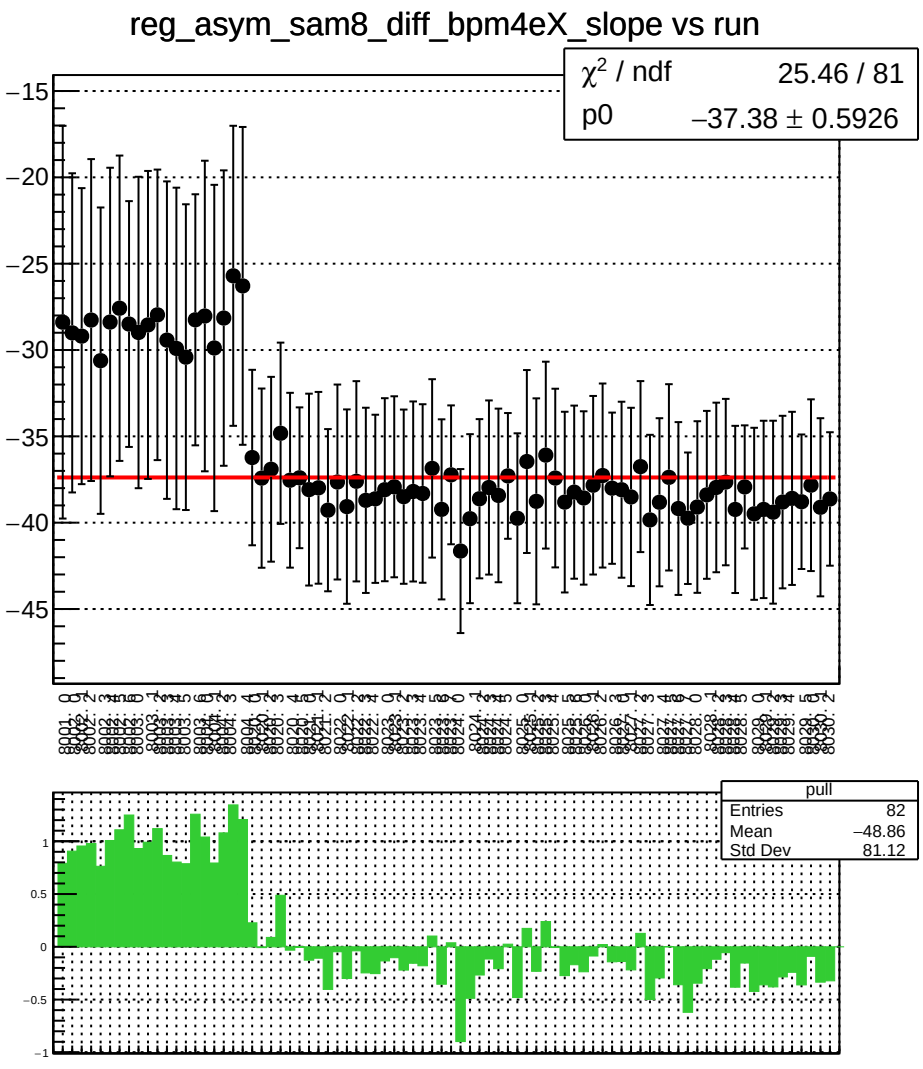

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 330.9 / 81
p0 0.8611± 0.06465
pull
Entries 82
Mean 127
Std Dev 90.06
pull1D
Entries 82
Mean 0.3824
Std Dev 1.972

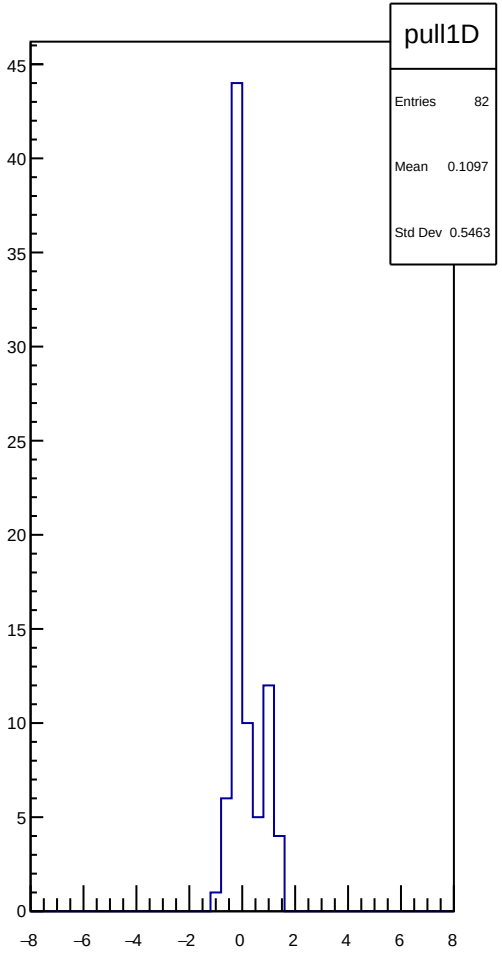

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 61.41 / 81
p0 14.05 ± 0.5637
pull
Entries 82
Mean −30.86
Std Dev 61

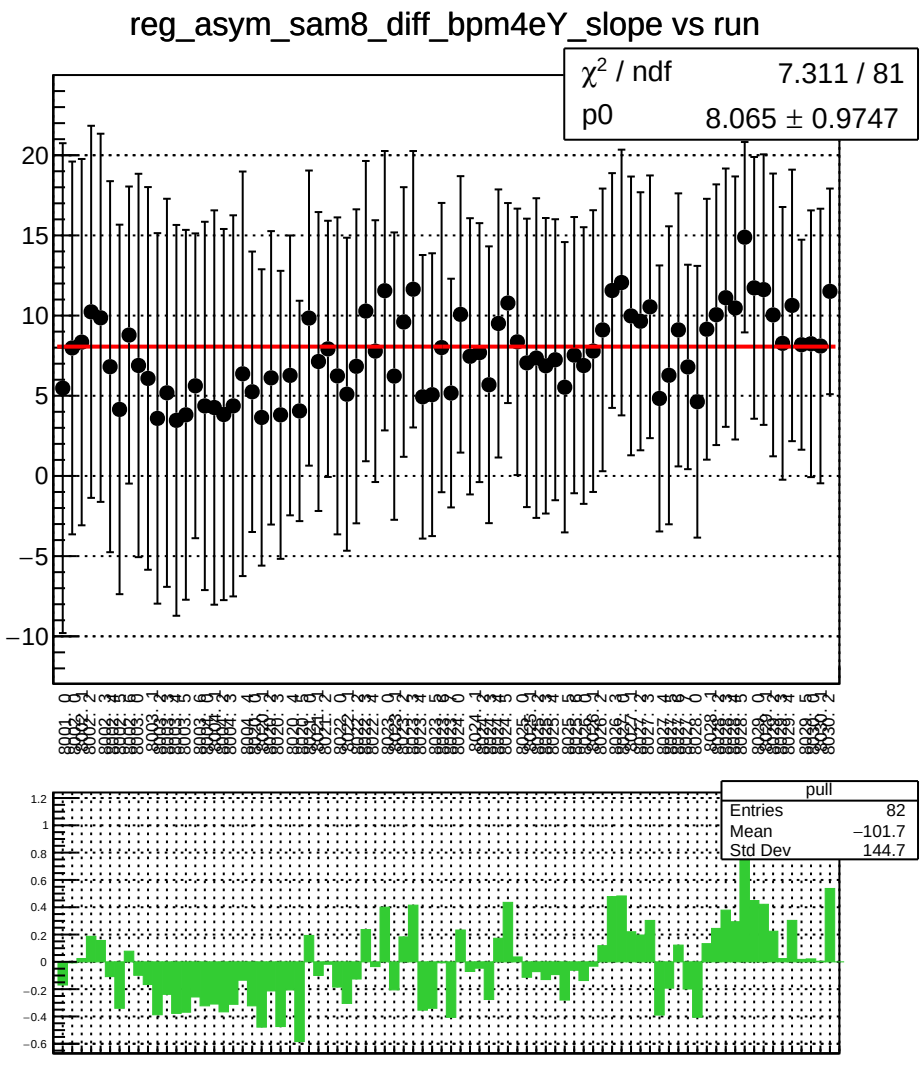

pull1D
Entries 82
Mean −0.2074
Std Dev 0.8401

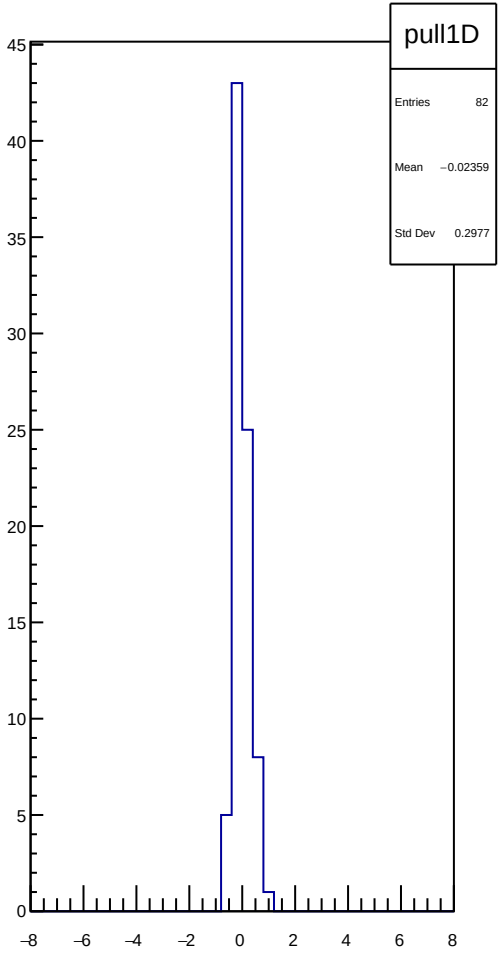

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 6.257 / 81
p0 −9.105 ± 0.9108
pull
Entries 82
Mean −113.5
Std Dev 167.7

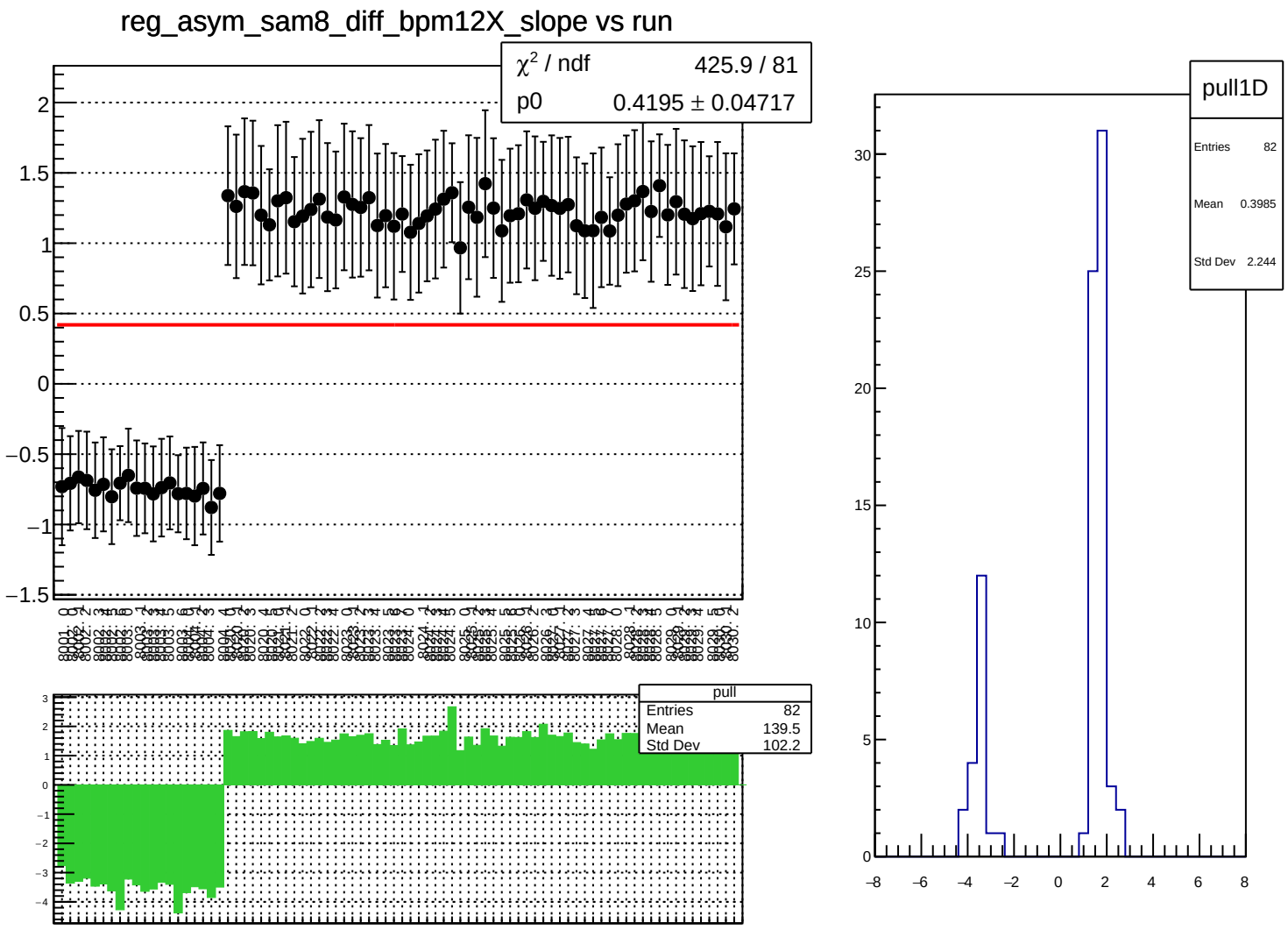

pull1D
Entries 82
Mean 0.01104
Std Dev 0.276

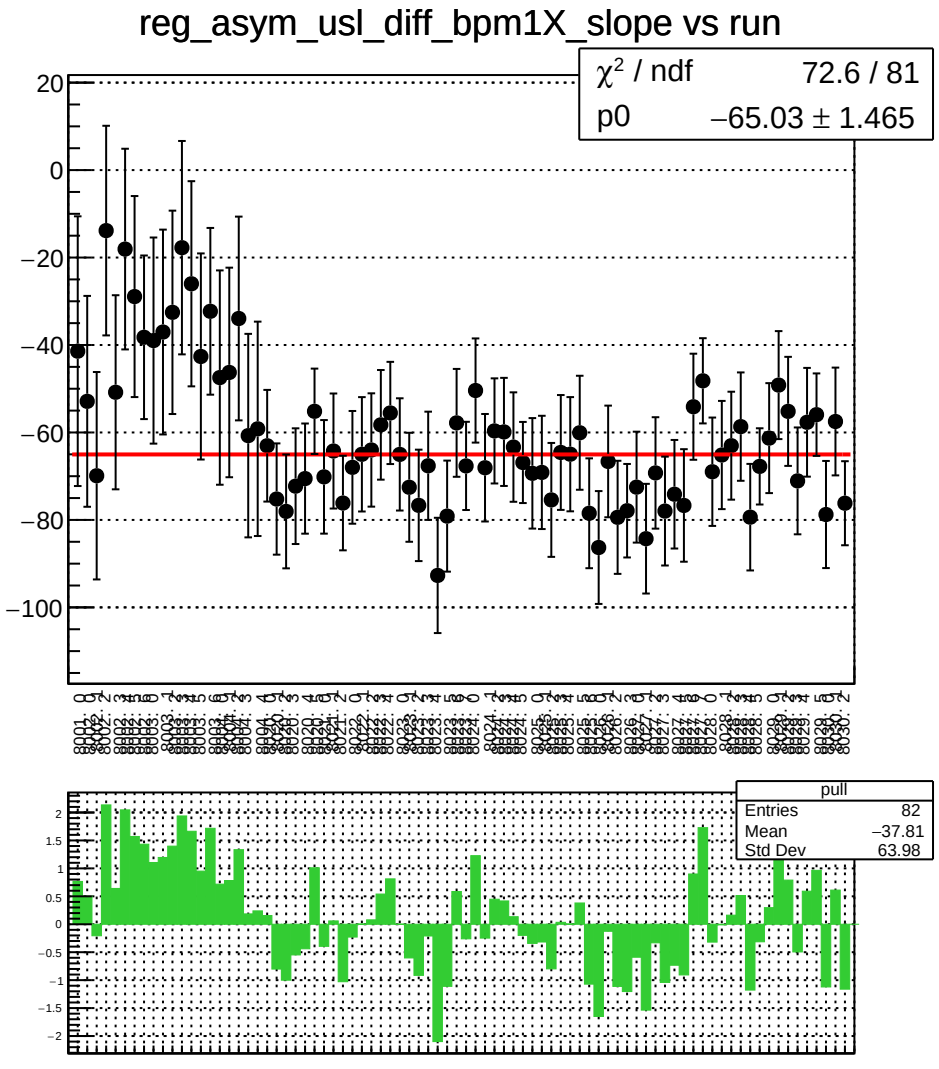

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 25.46 / 81
p0 −37.38 ± 0.5926
pull
Entries 82
Mean −48.86
Std Dev 81.12

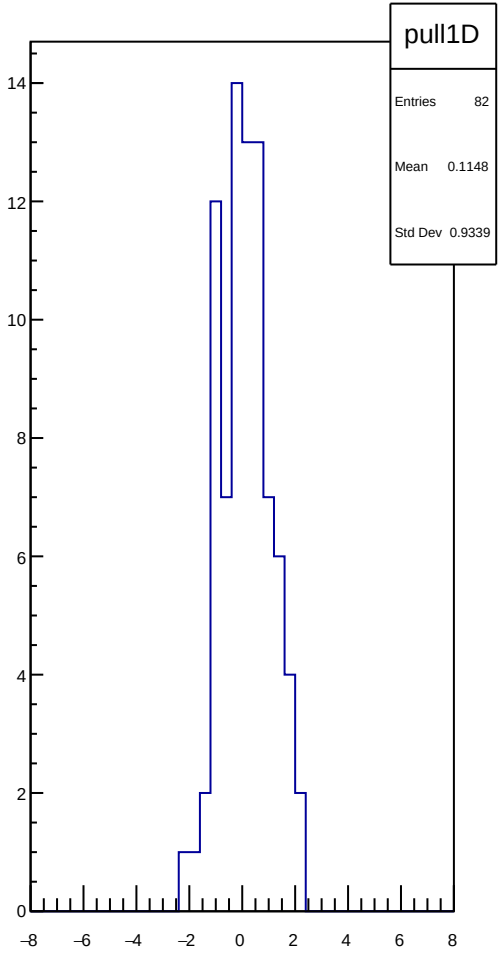

pull1D
Entries 82
Mean 0.1097
Std Dev 0.5463

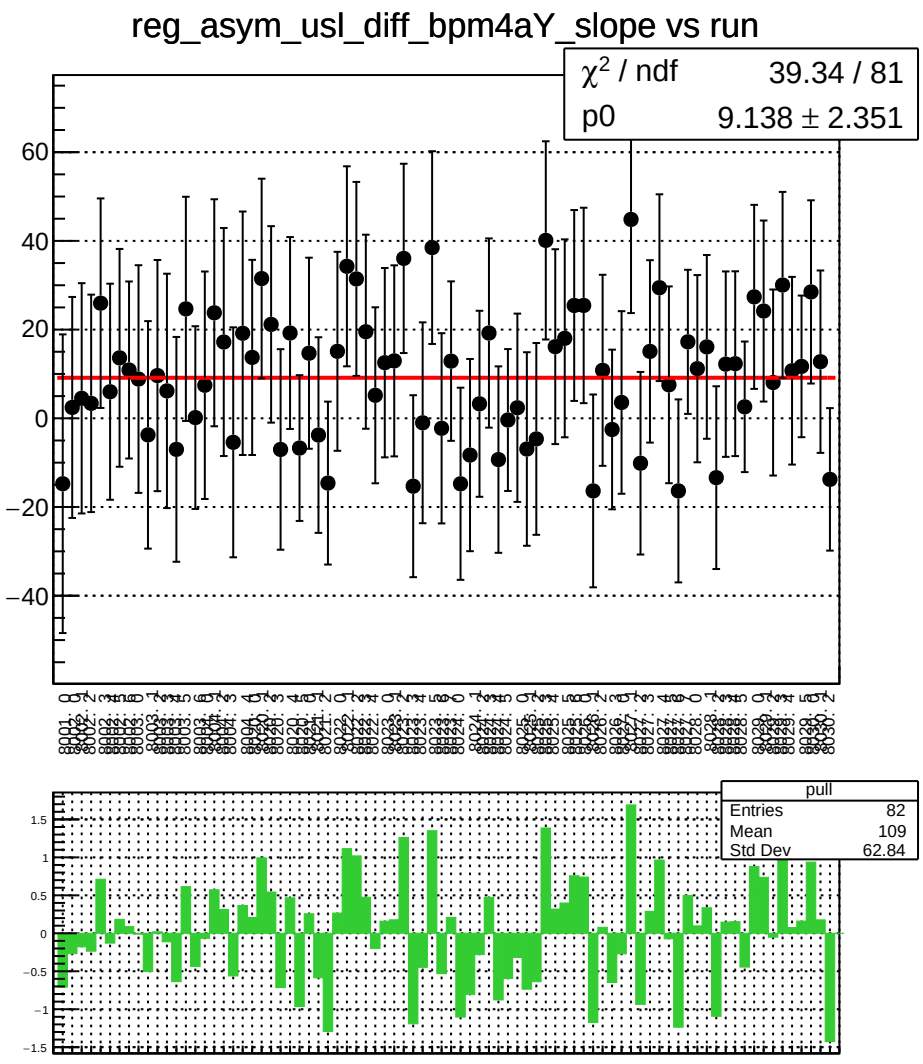

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 7.311 / 81
p0 8.065 ± 0.9747
pull
Entries 82
Mean −101.7
Std Dev 144.7

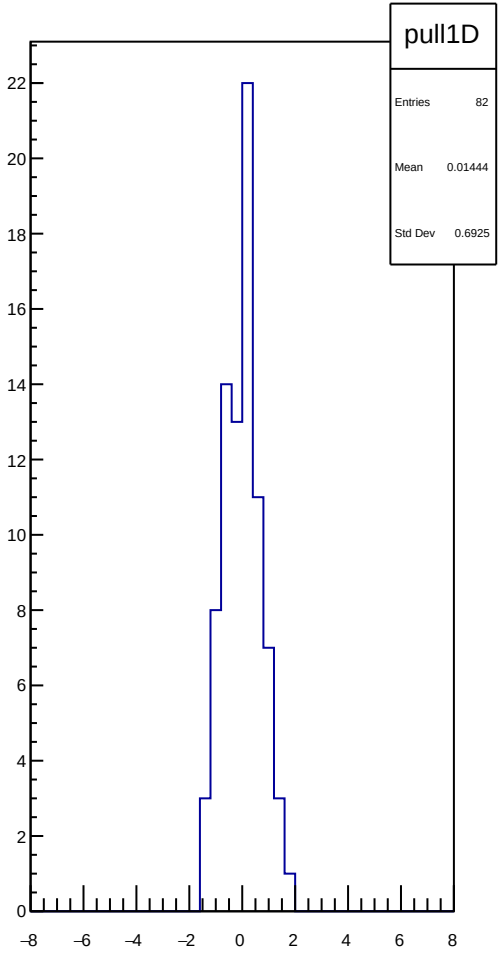

pull1D
Entries 82
Mean −0.02359
Std Dev 0.2977

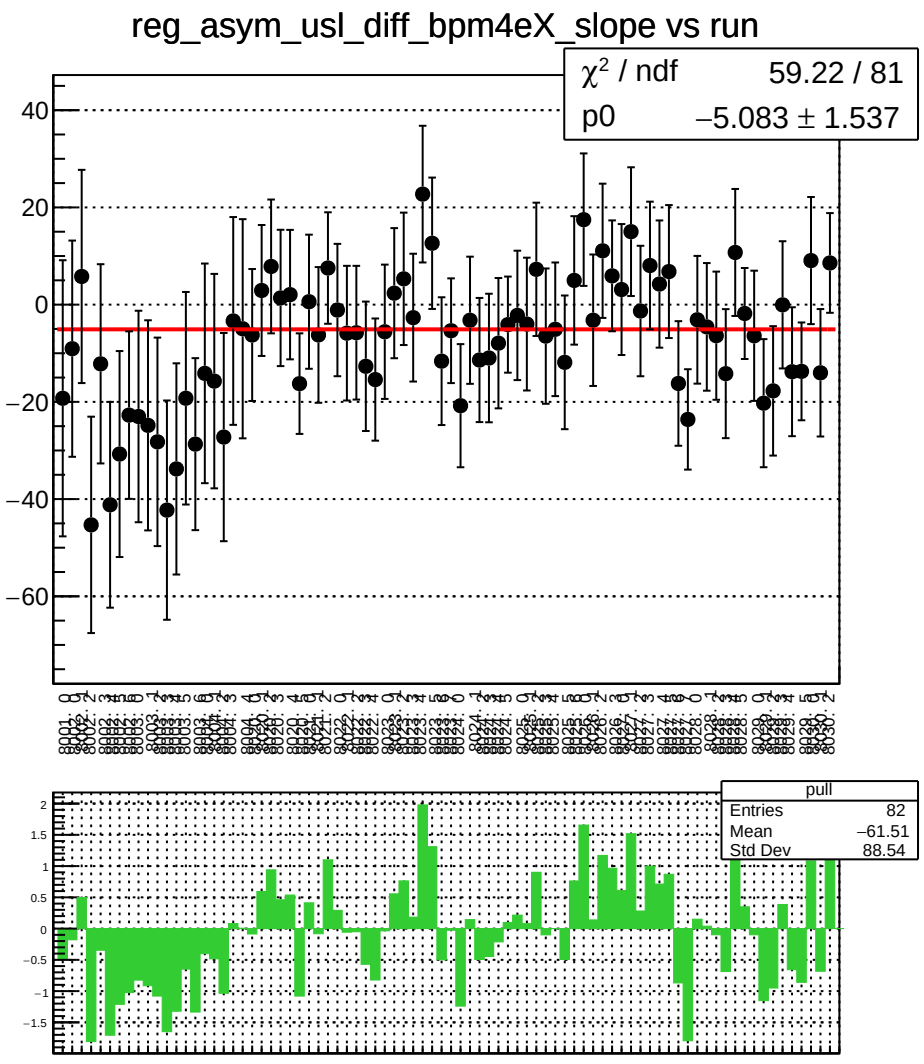

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 425.9 / 81
p0 0.4195 ± 0.04717
pull
Entries 82
Mean 139.5
Std Dev 102.2
pull1D
Entries 82
Mean 0.3985
Std Dev 2.244

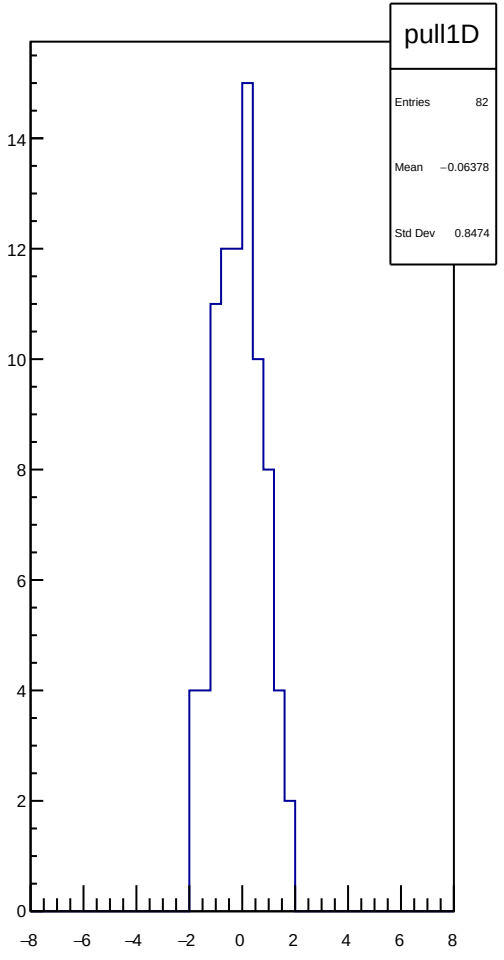

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 72.6 / 81
p0 −65.03 ± 1.465
pull
Entries 82
Mean −37.81
Std Dev 63.98

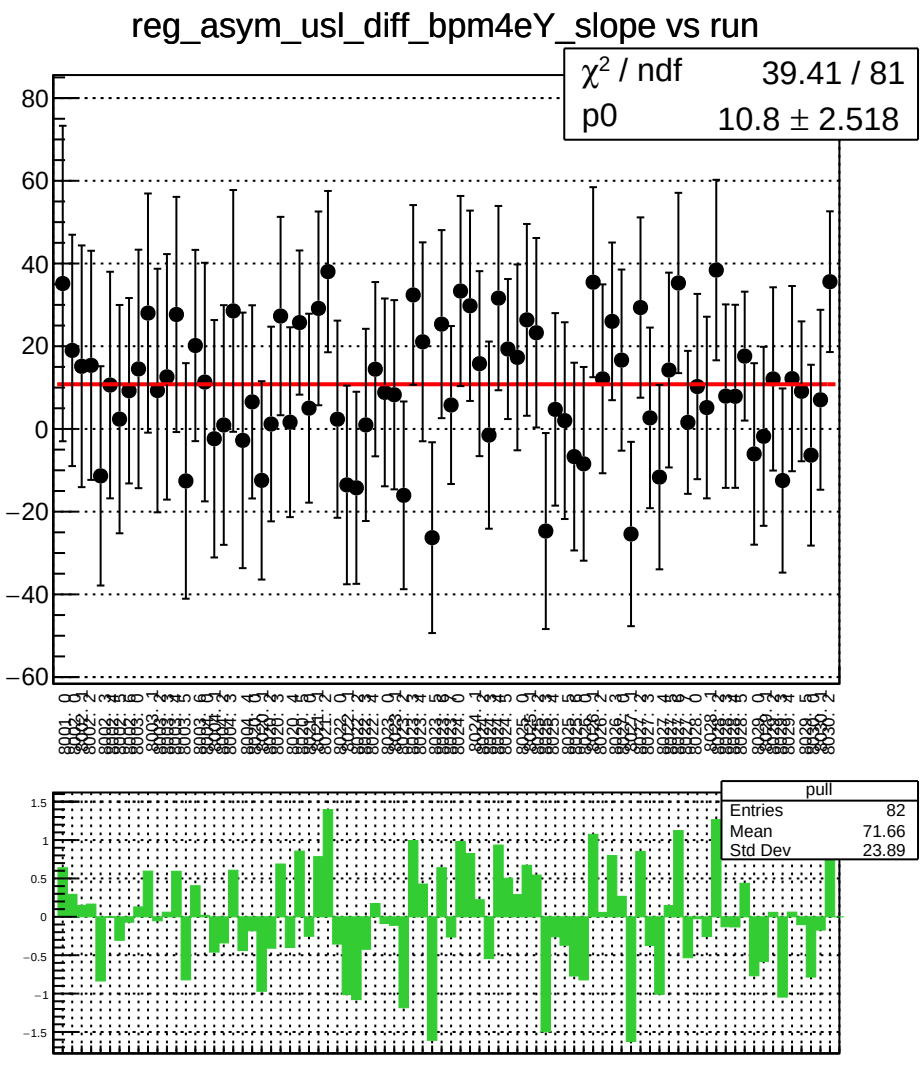

pull1D
Entries 82
Mean 0.1148
Std Dev 0.9339

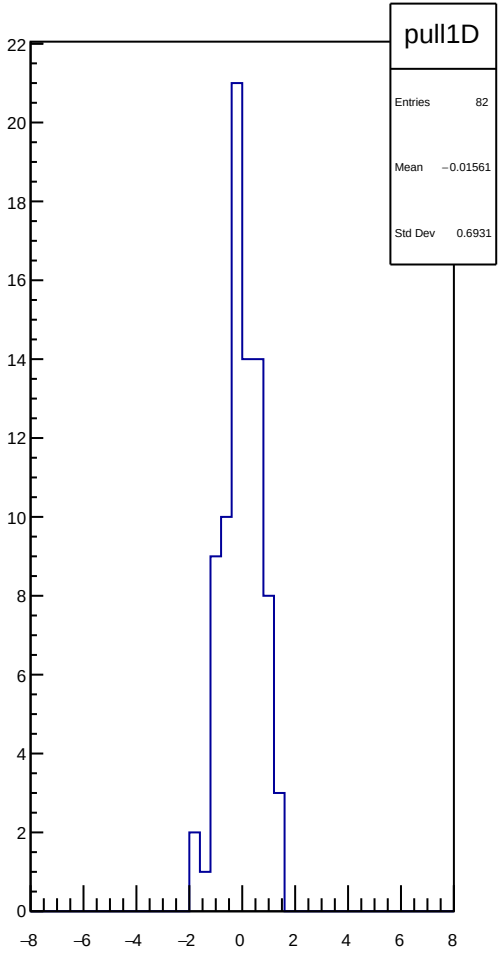

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 39.34 / 81
p0 9.138 ± 2.351
pull
Entries 82
Mean 109
Std Dev 62.84

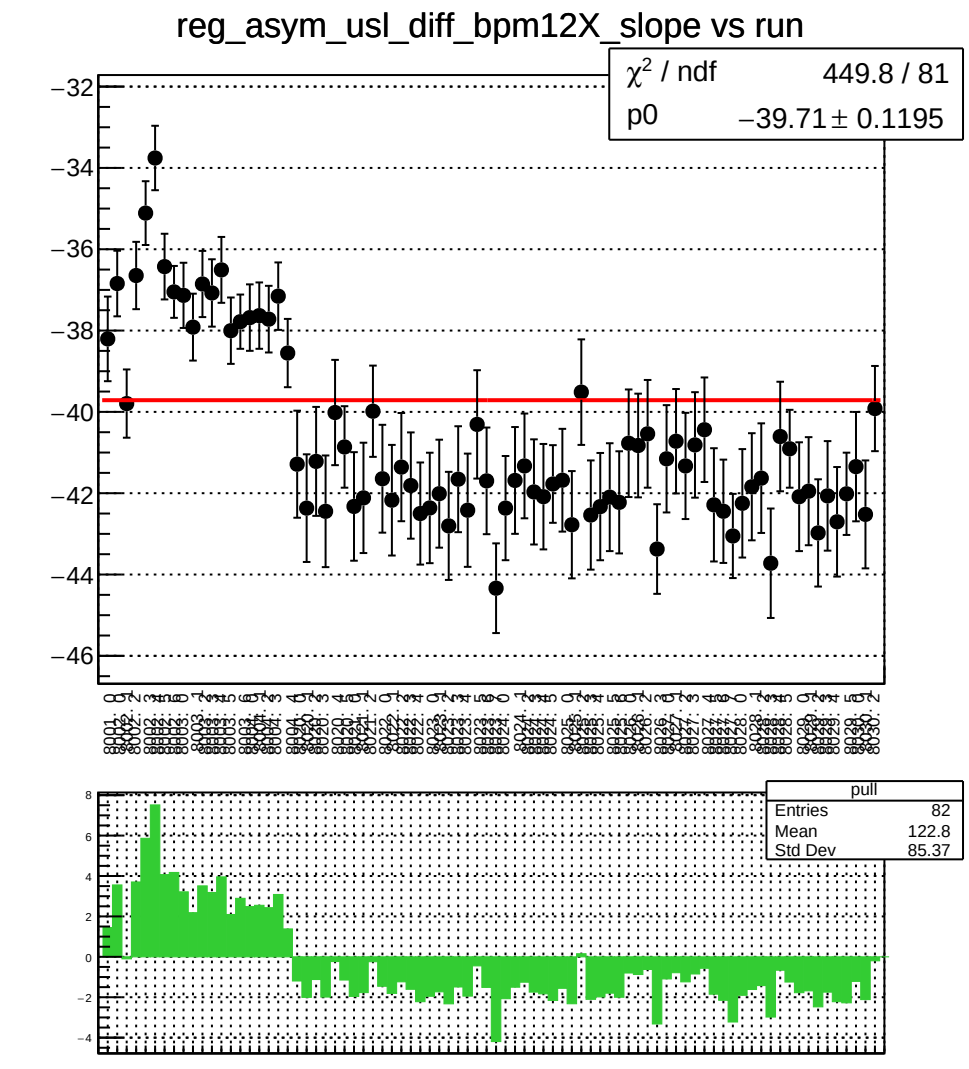

pull1D
Entries 82
Mean 0.01444
Std Dev 0.6925

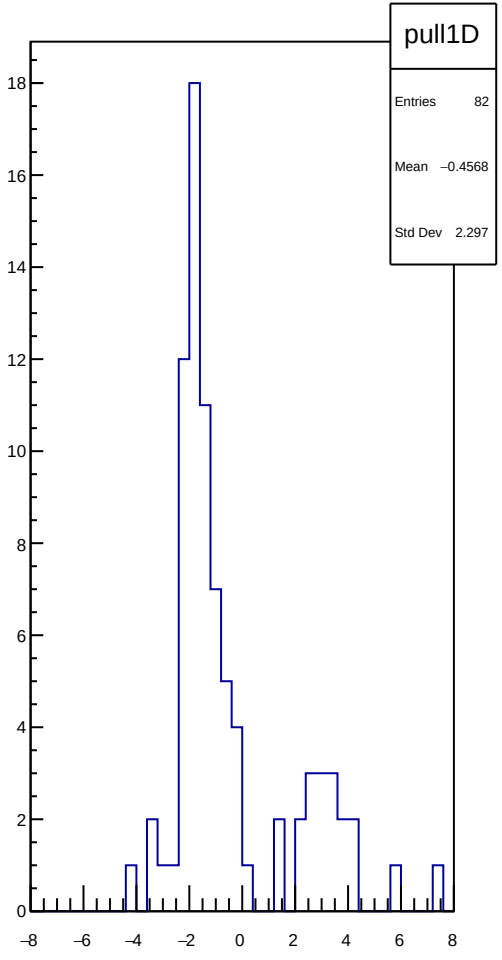

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 59.22 / 81
p0 −5.083 ± 1.537
pull
Entries 82
Mean −61.51
Std Dev 88.54

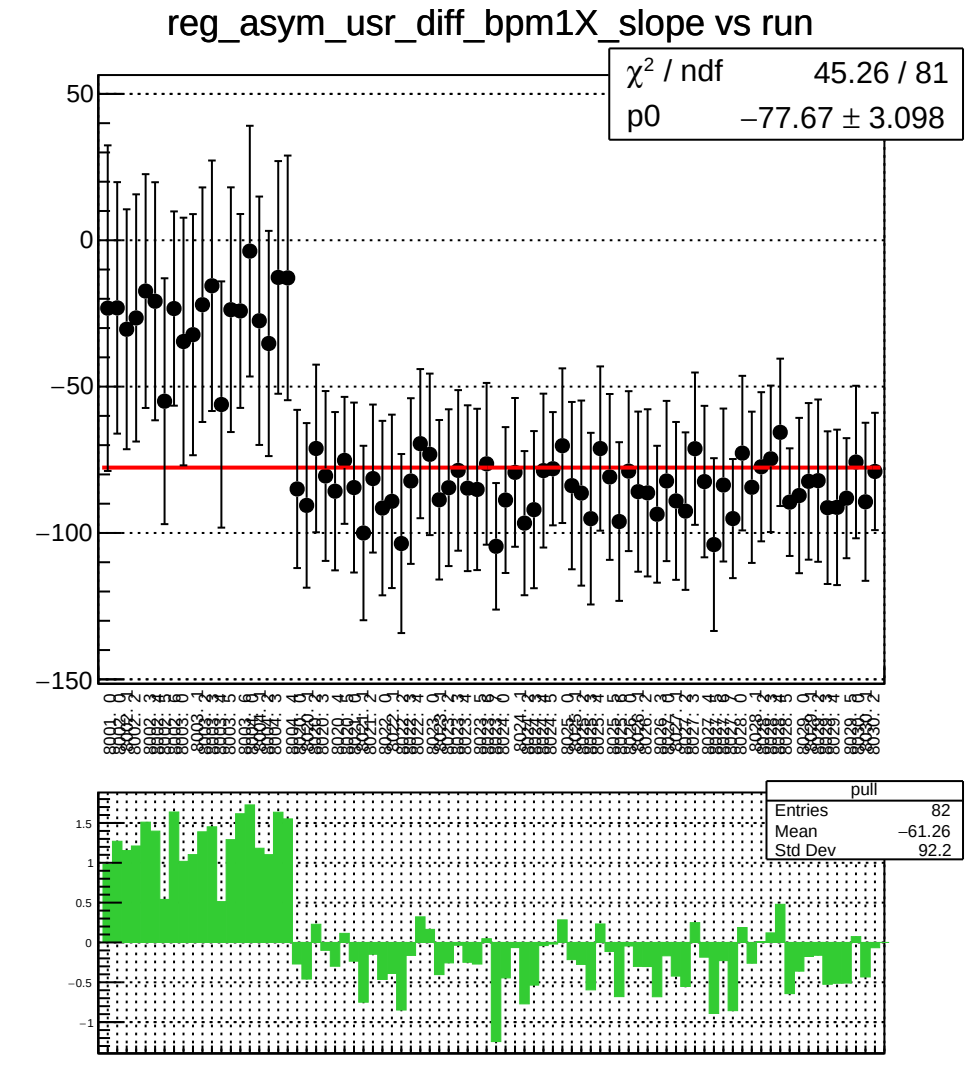

pull1D
Entries 82
Mean −0.06378
Std Dev 0.8474

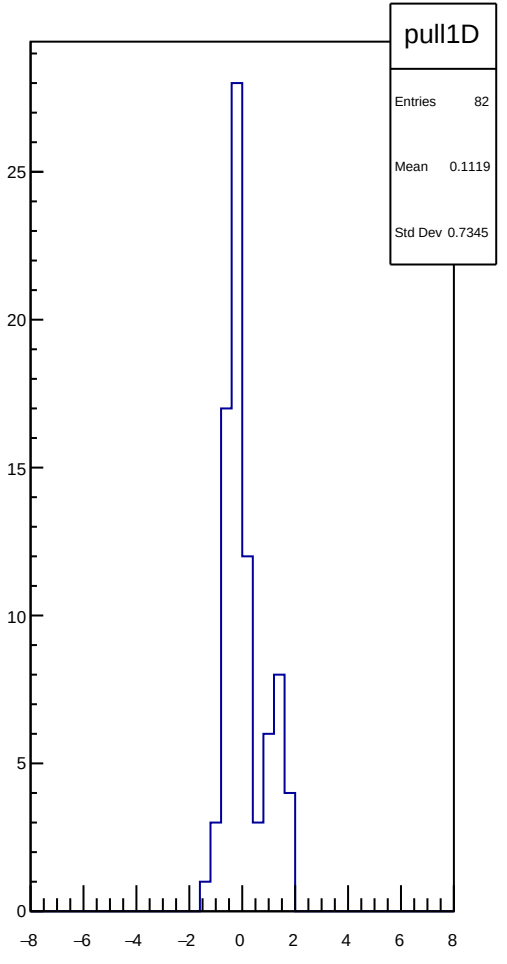

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 39.41 / 81
p0 10.8 ± 2.518
pull
Entries 82
Mean 71.66
Std Dev 23.89

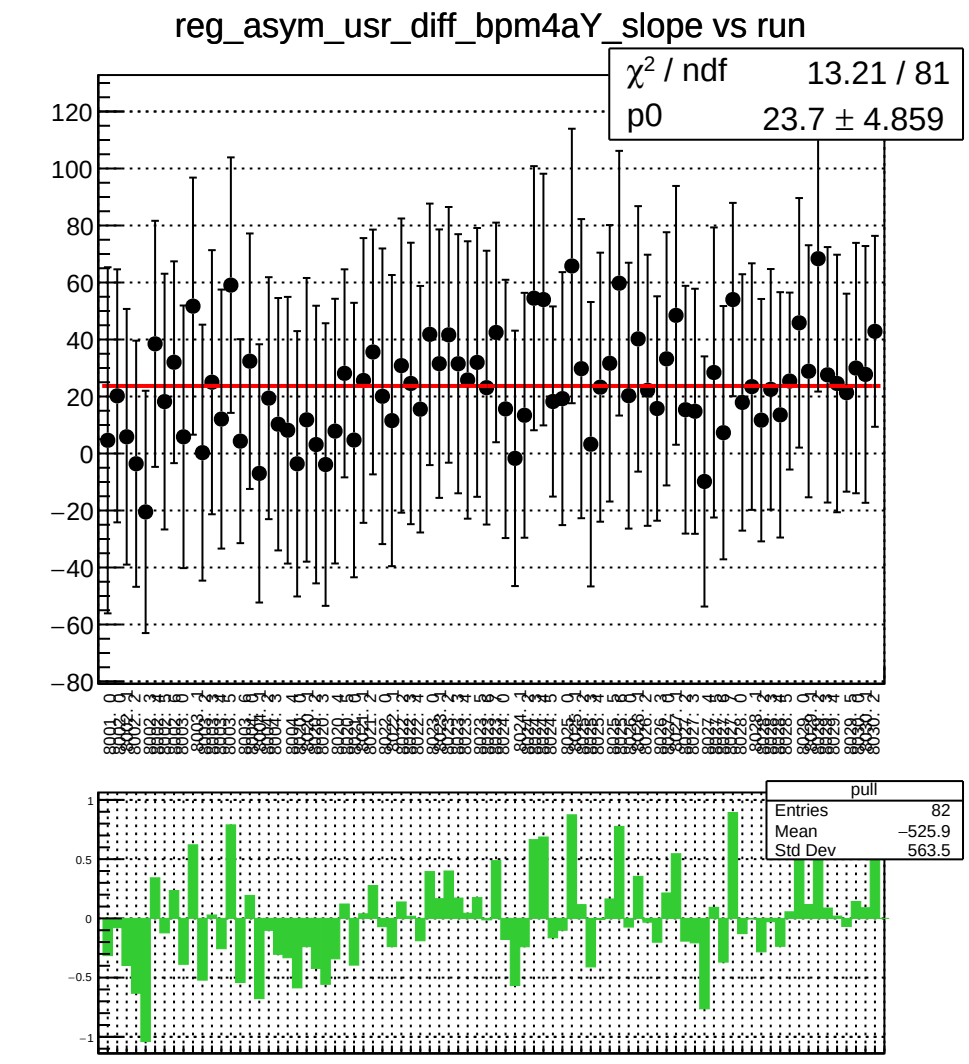

pull1D
Entries 82
Mean −0.01561
Std Dev 0.6931

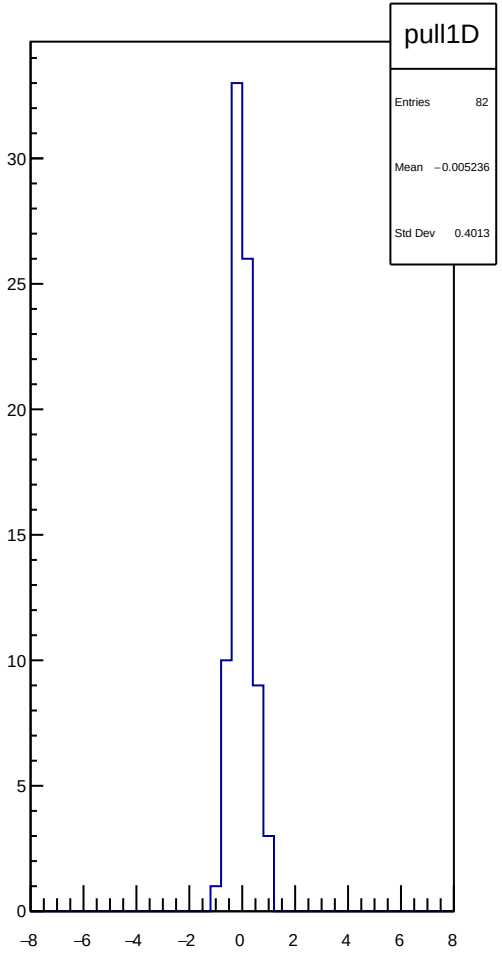

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 449.8 / 81
p0 −39.71 ± 0.1195
pull
Entries 82
Mean 122.8
Std Dev 85.37

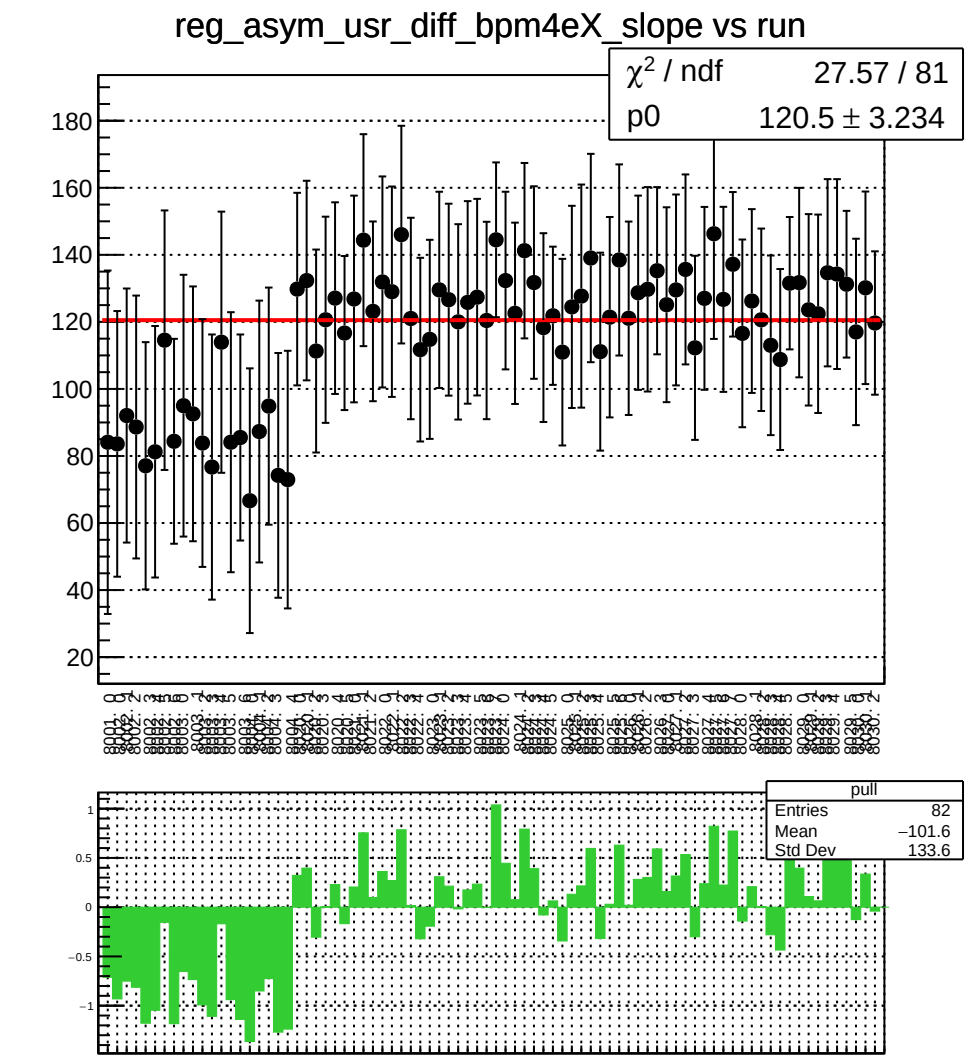

pull1D
Entries 82
Mean −0.4568
Std Dev 2.297

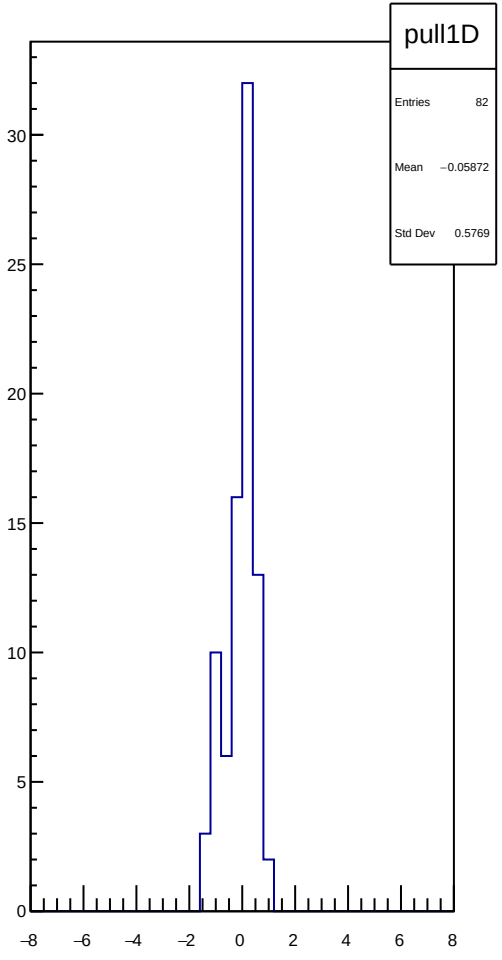

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 45.26 / 81
p0 −77.67 ± 3.098
50
0
−50
−100
−150
pull
Entries 82
Mean −61.26
Std Dev 92.2
1.5
1
0.5
0
−0.5
−1

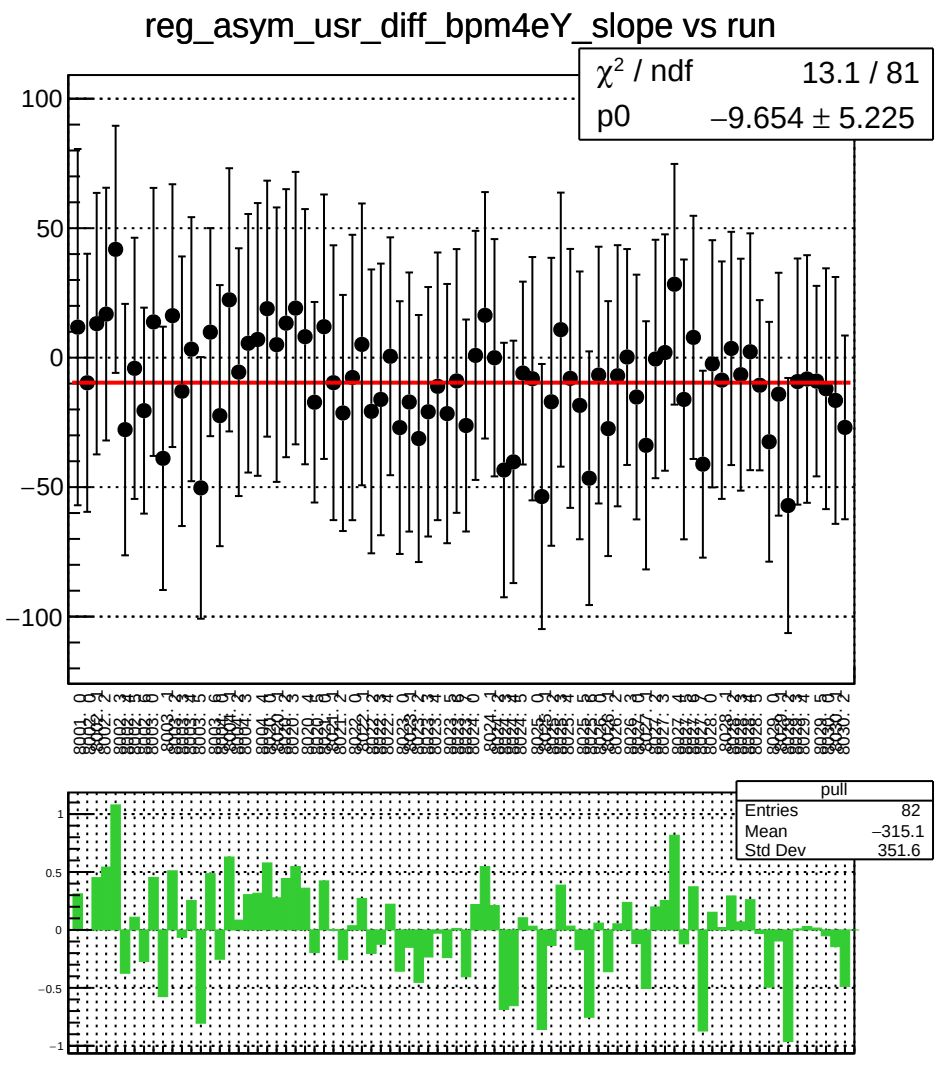

pull1D
Entries 82
Mean 0.1119
Std Dev 0.7345
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

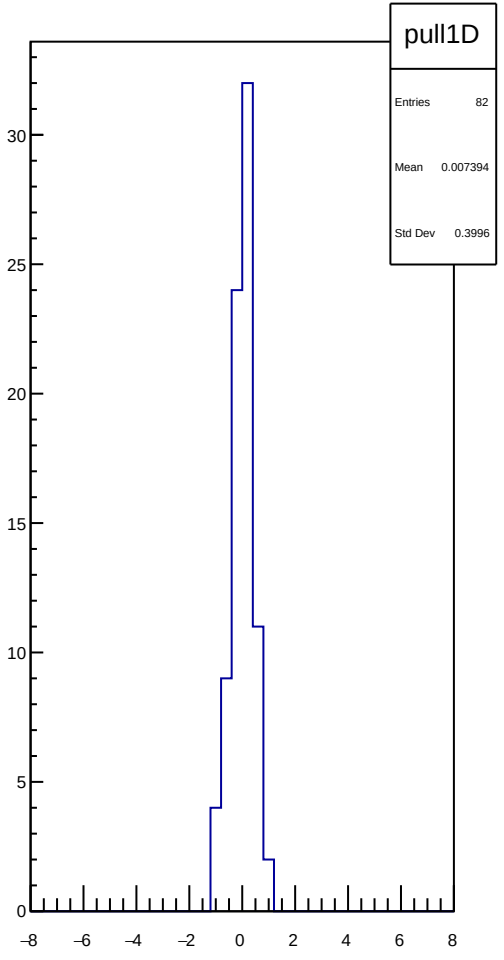

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 13.21 / 81
p0 23.7 ± 4.859
pull
Entries 82
Mean −525.9
Std Dev 563.5

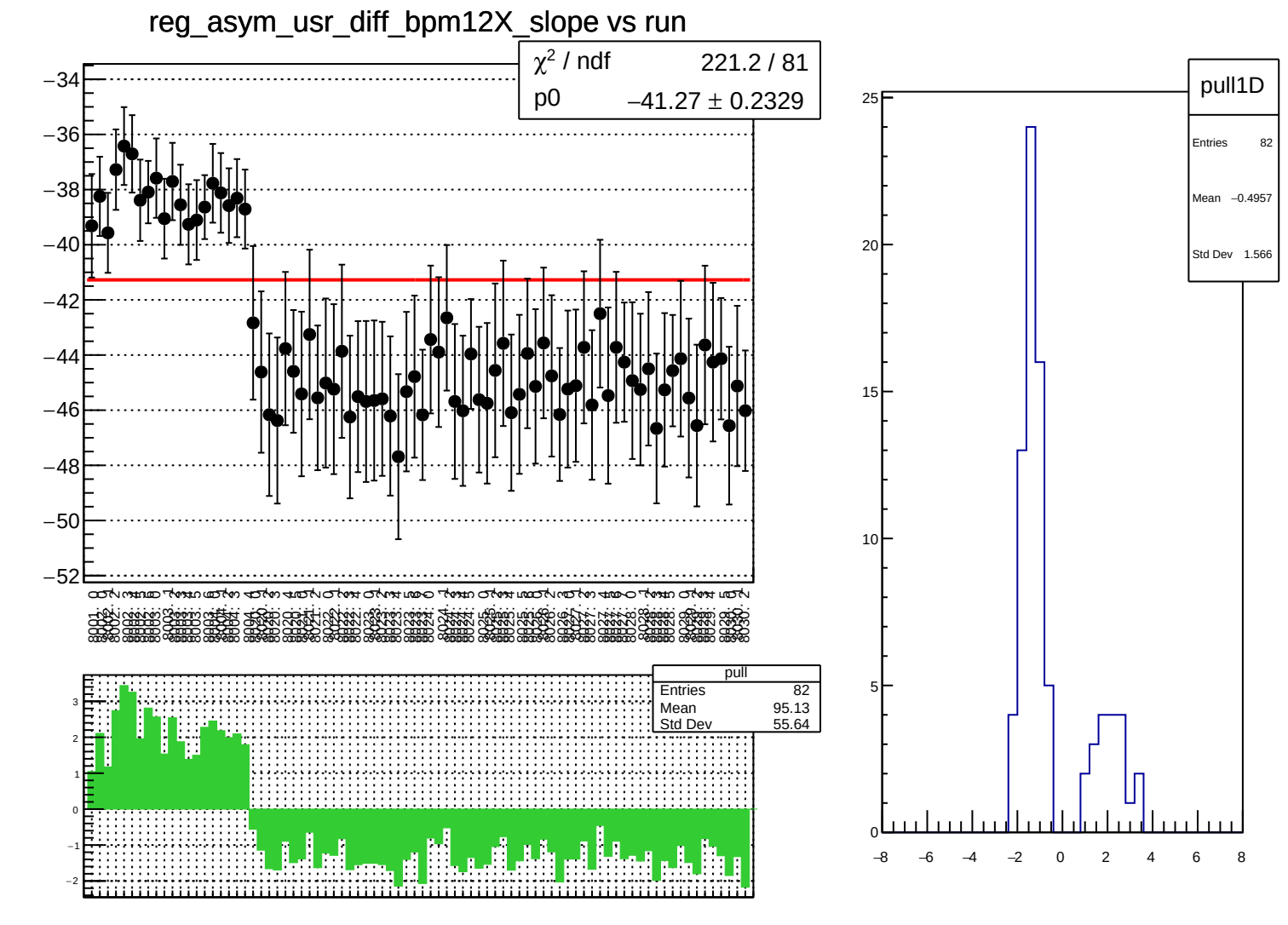

pull1D
Entries 82
Mean −0.005236
Std Dev 0.4013

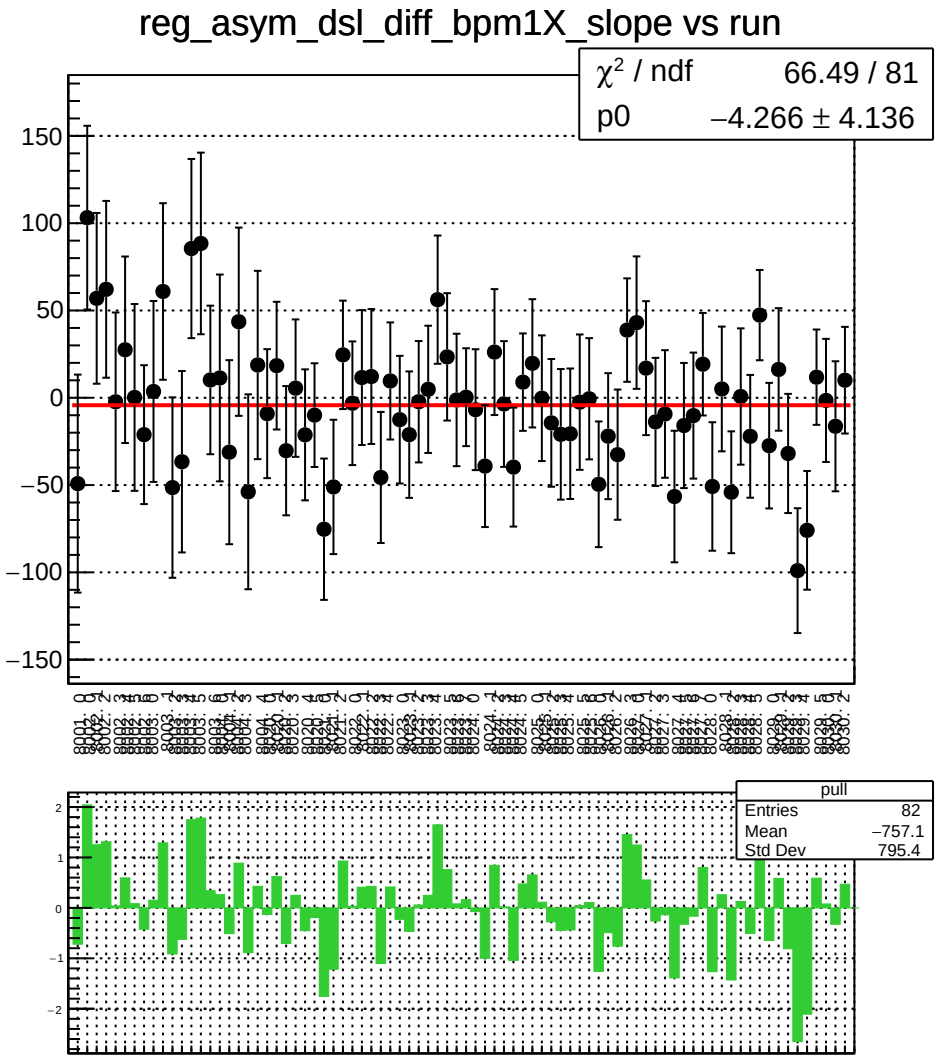

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 27.57 / 81
p0 120.5 ± 3.234
pull
Entries 82
Mean −101.6
Std Dev 133.6

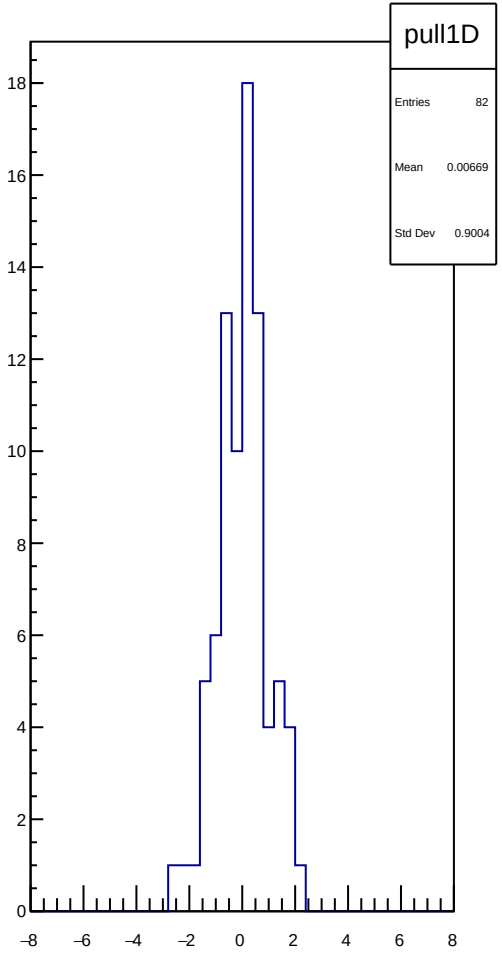

pull1D
Entries 82
Mean −0.05872
Std Dev 0.5769

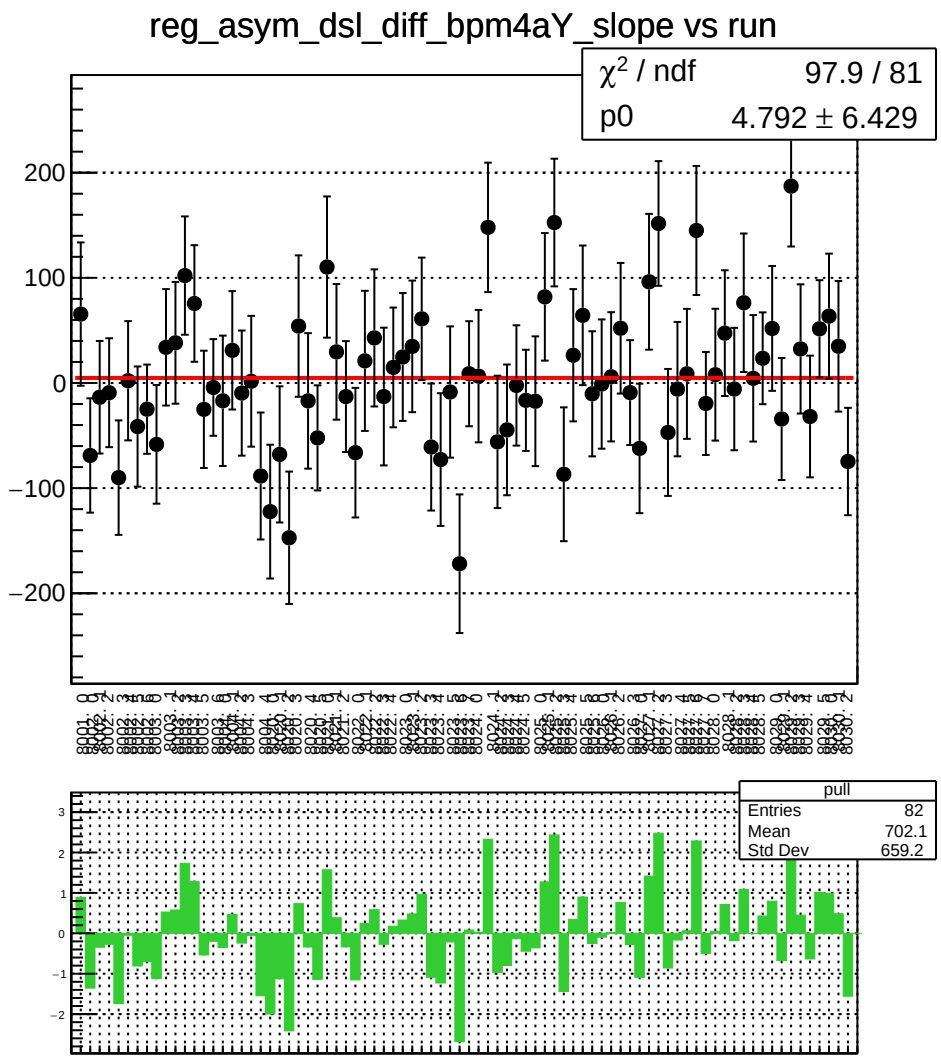

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 13.1 / 81
p0 −9.654 ± 5.225
100
50
0
−50
−100
pull
Entries 82
Mean −315.1
Std Dev 351.6
1
0.5
0
−0.5
−1

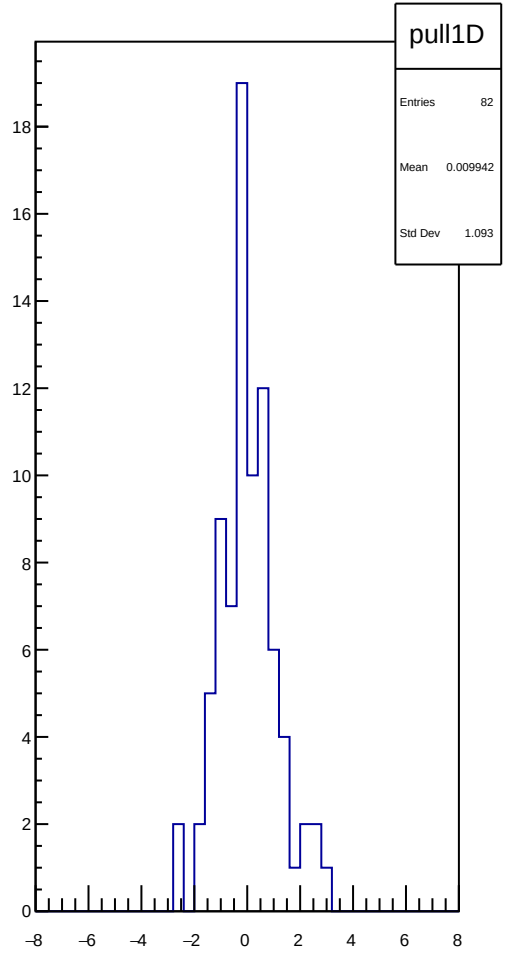

pull1D
Entries 82
Mean 0.007394
Std Dev 0.3996
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

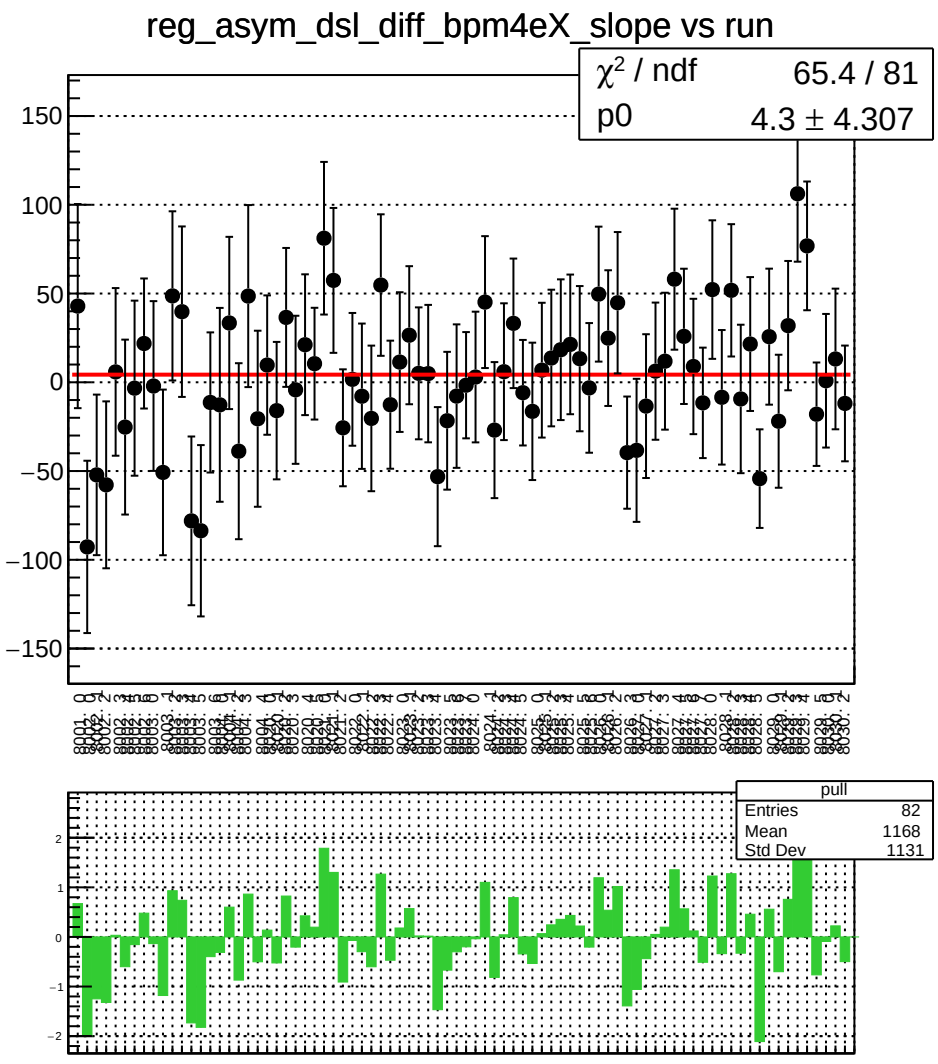

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 221.2 / 81
p0 −41.27 ± 0.2329
pull
Entries 82
Mean 95.13
Std Dev 55.64
pull1D
Entries 82
Mean −0.4957
Std Dev 1.566

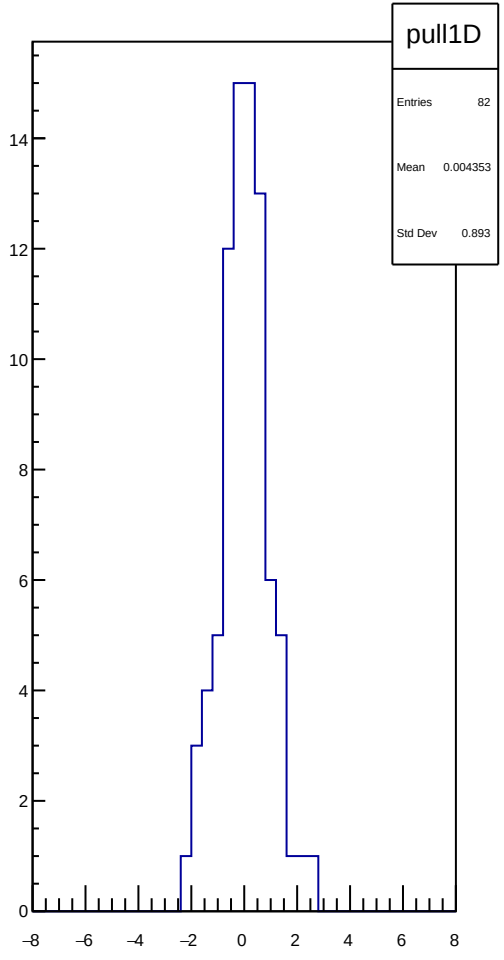

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 66.49 / 81
p0 −4.266 ± 4.136
pull
Entries 82
Mean −757.1
Std Dev 795.4

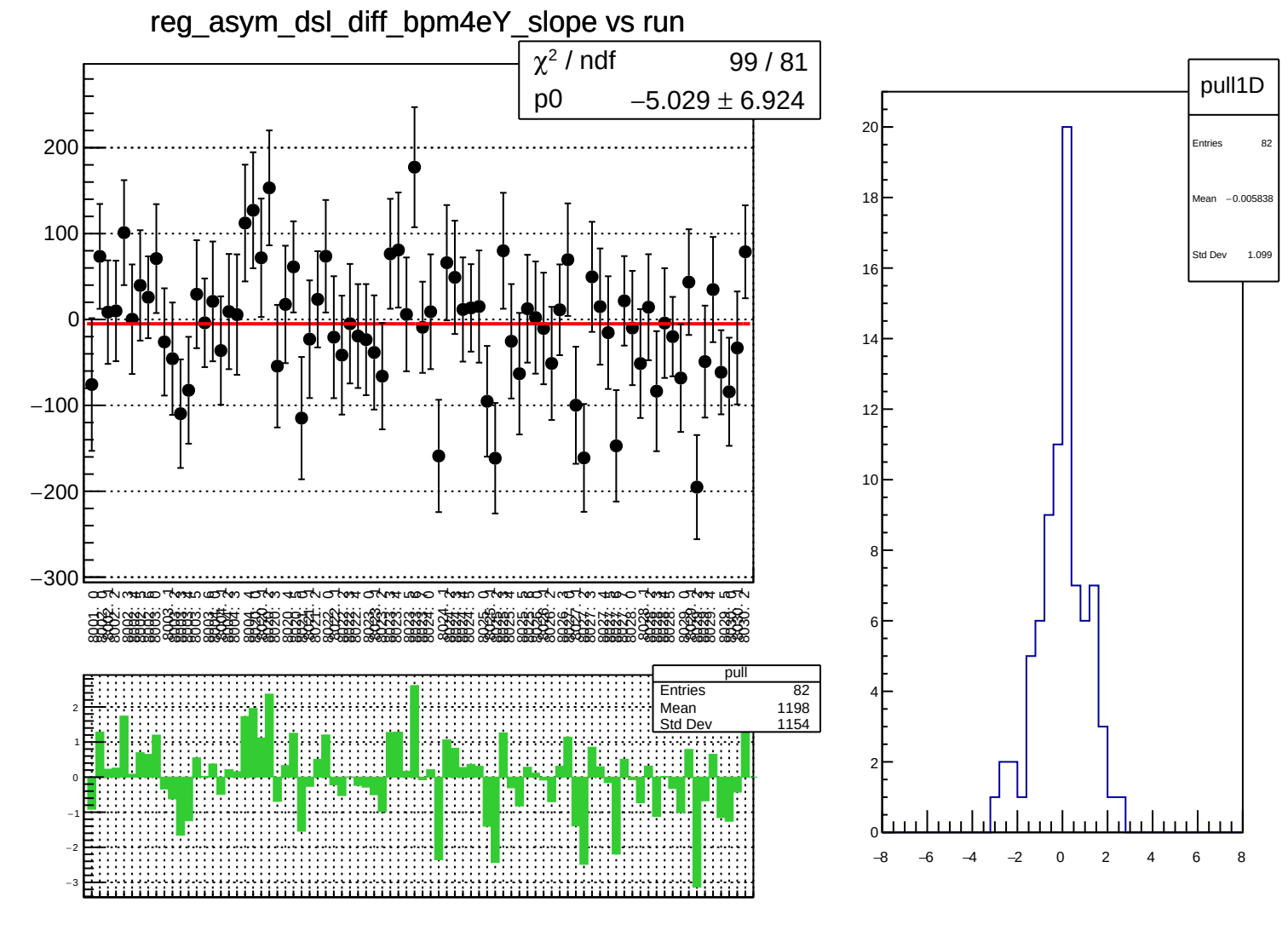

pull1D
Entries 82
Mean 0.00669
Std Dev 0.9004

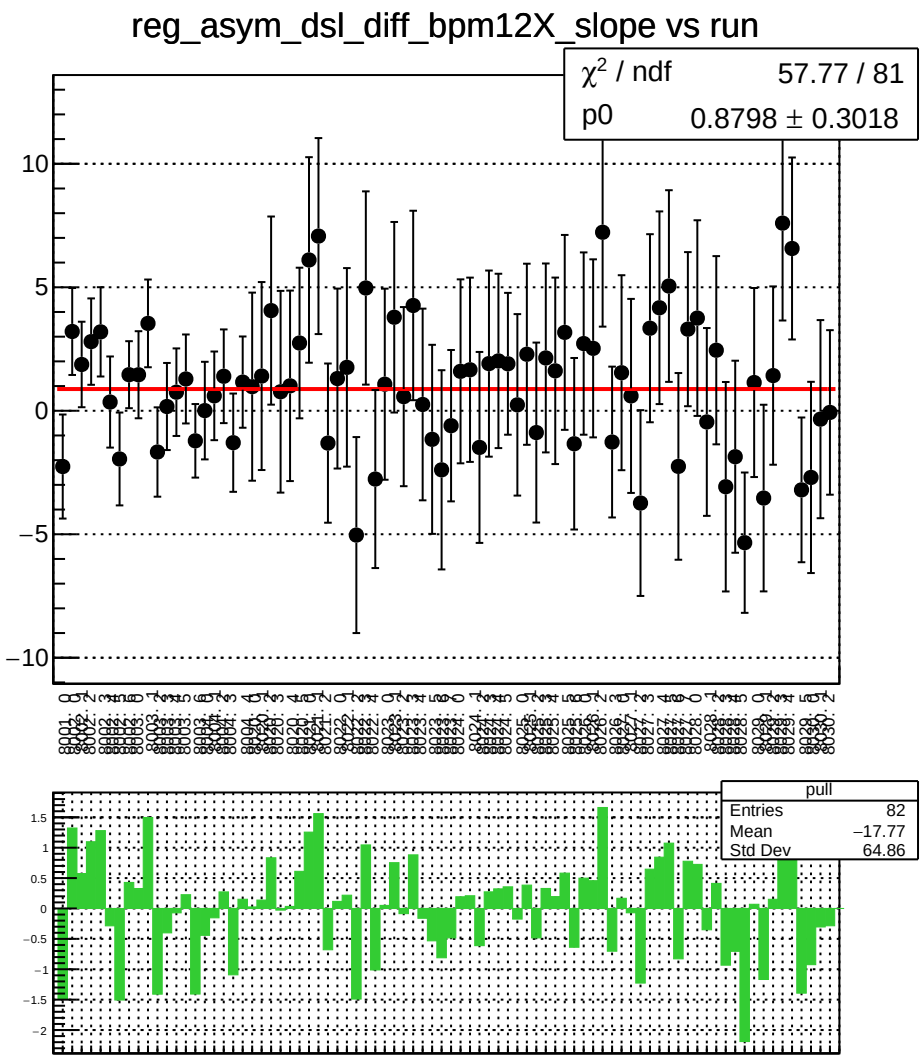

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 97.9 / 81
p0 4.792 ± 6.429
200
100
0
−100
−200
pull
Entries 82
Mean 702.1
Std Dev 659.2
3
2
1
0
−1
−2

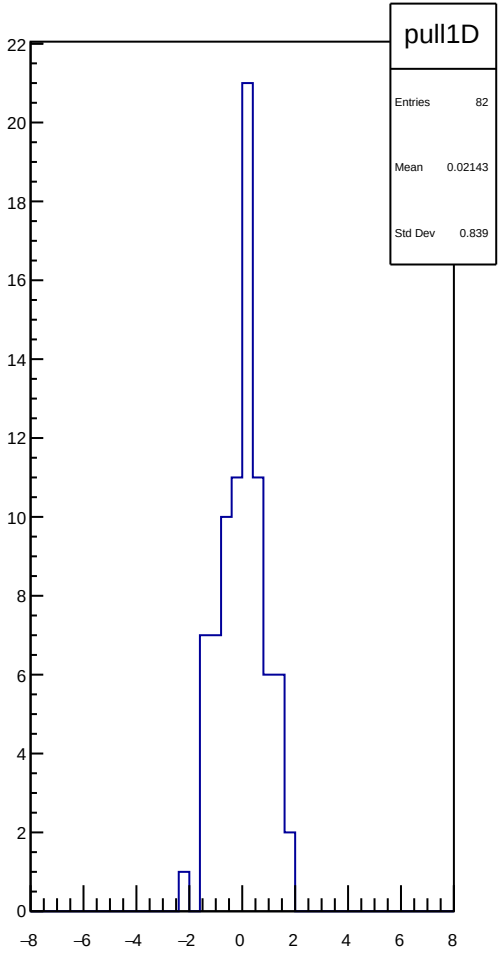

pull1D
Entries 82
Mean 0.009942
Std Dev 1.093
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

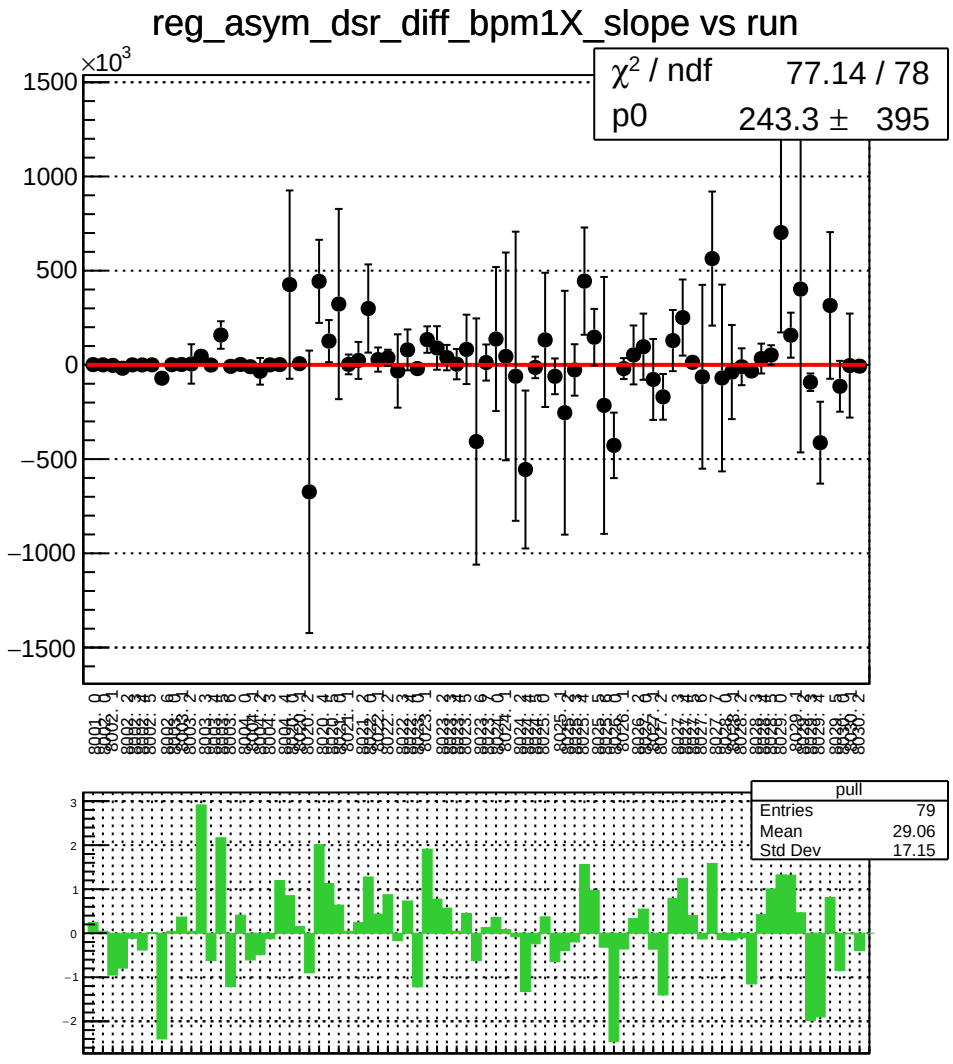

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 65.4 / 81
p0 4.3 ± 4.307
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 1168
Std Dev 1131
2
1
0
−1
−2

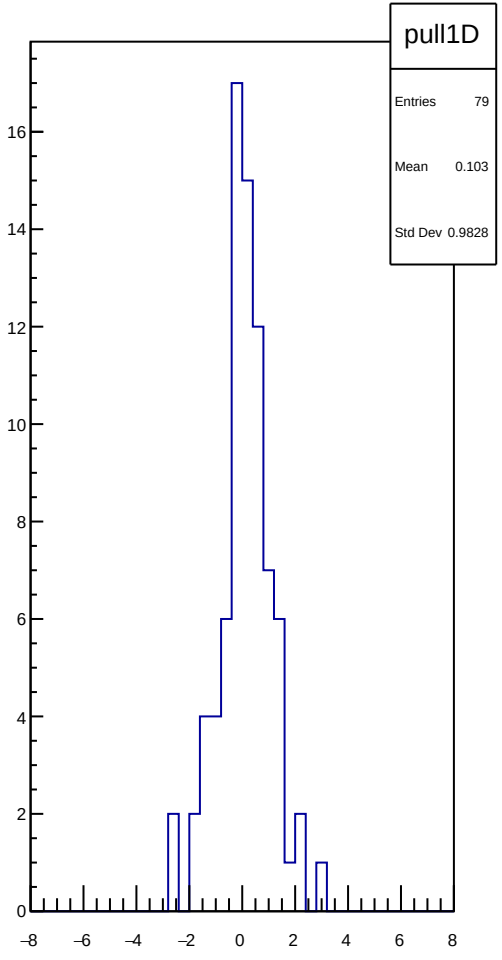

pull1D
Entries 82
Mean 0.004353
Std Dev 0.893
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

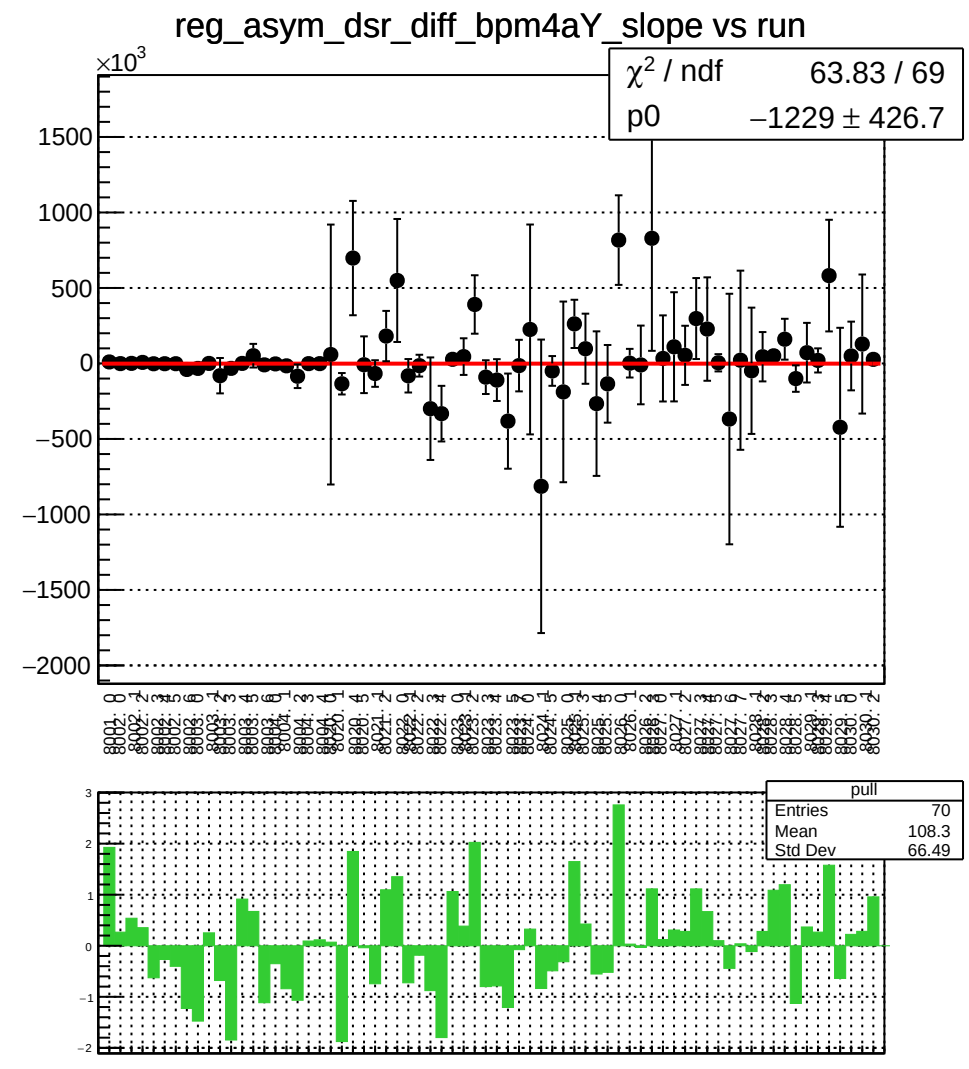

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 99 / 81
p0 −5.029 ± 6.924
pull
Entries 82
Mean 1198
Std Dev 1154
pull1D
Entries 82
Mean −0.005838
Std Dev 1.099

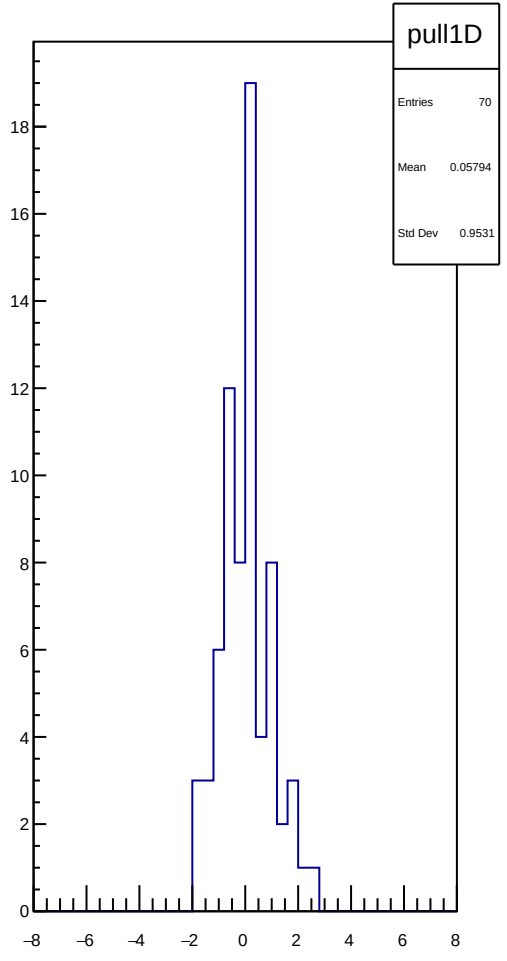

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 57.77 / 81
p0 0.8798 ± 0.3018
pull
Entries 82
Mean −17.77
Std Dev 64.86

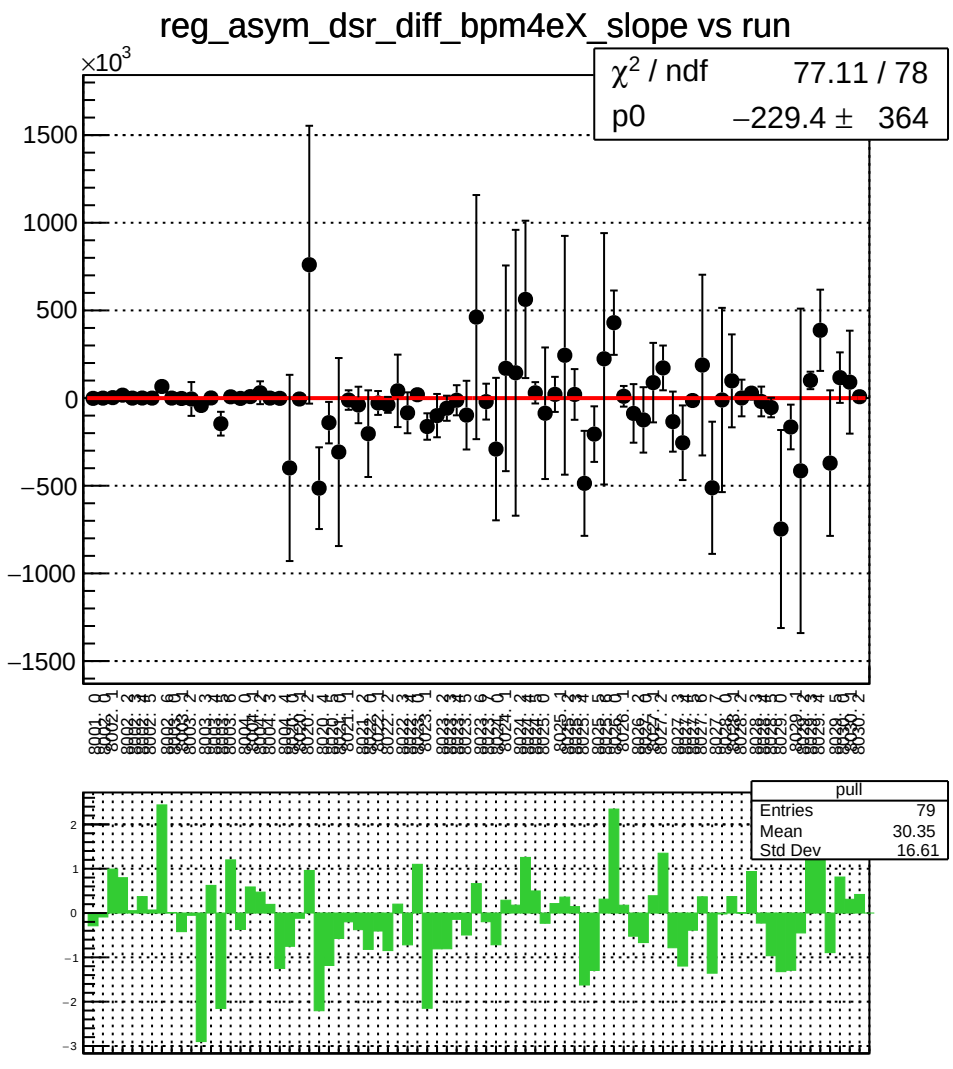

pull1D
Entries 82
Mean 0.02143
Std Dev 0.839

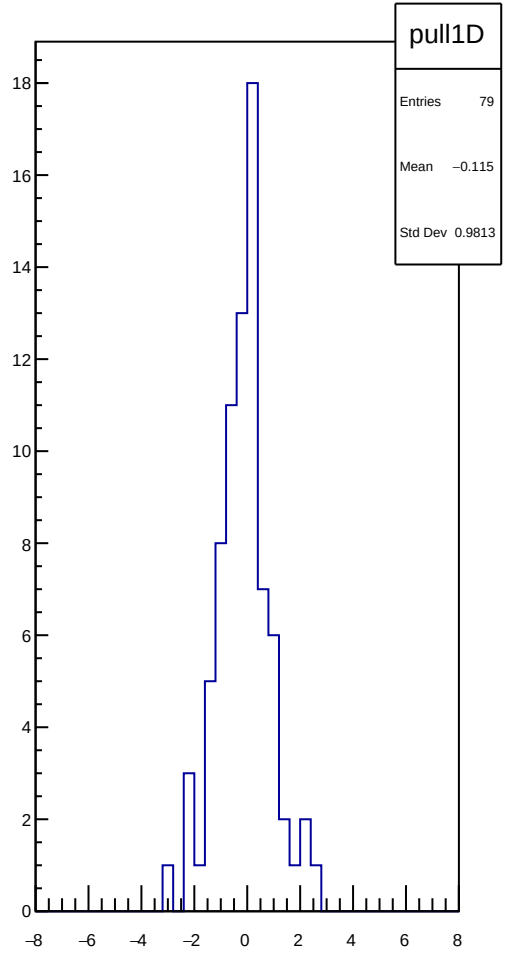

reg_asym_dsr_diff_bpm1X_slope vs run
×10^3
χ² / ndf 77.14 / 78
p0 243.3 ± 395
pull
Entries 79
Mean 29.06
Std Dev 17.15

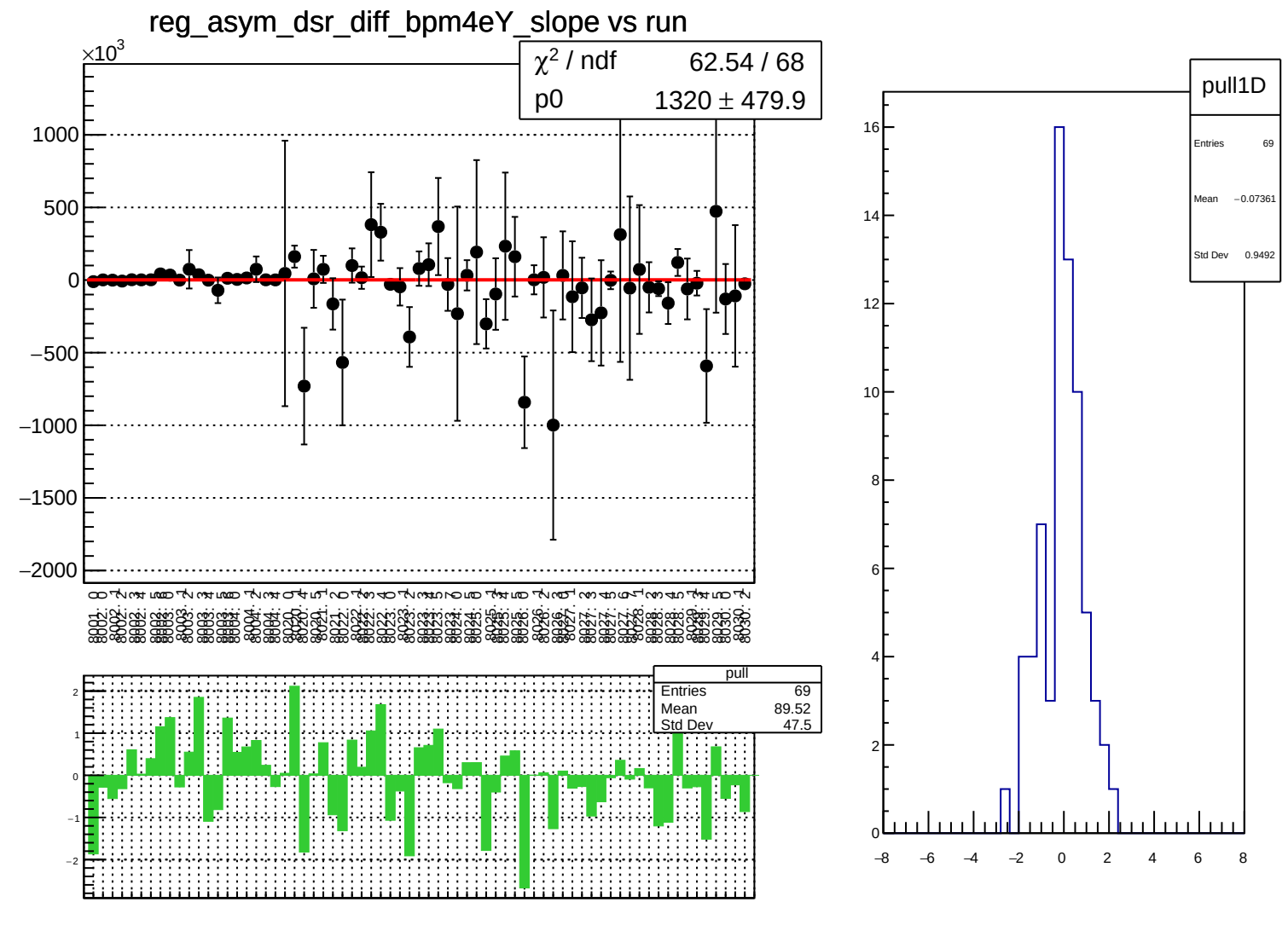

pull1D
Entries 79
Mean 0.103
Std Dev 0.9828

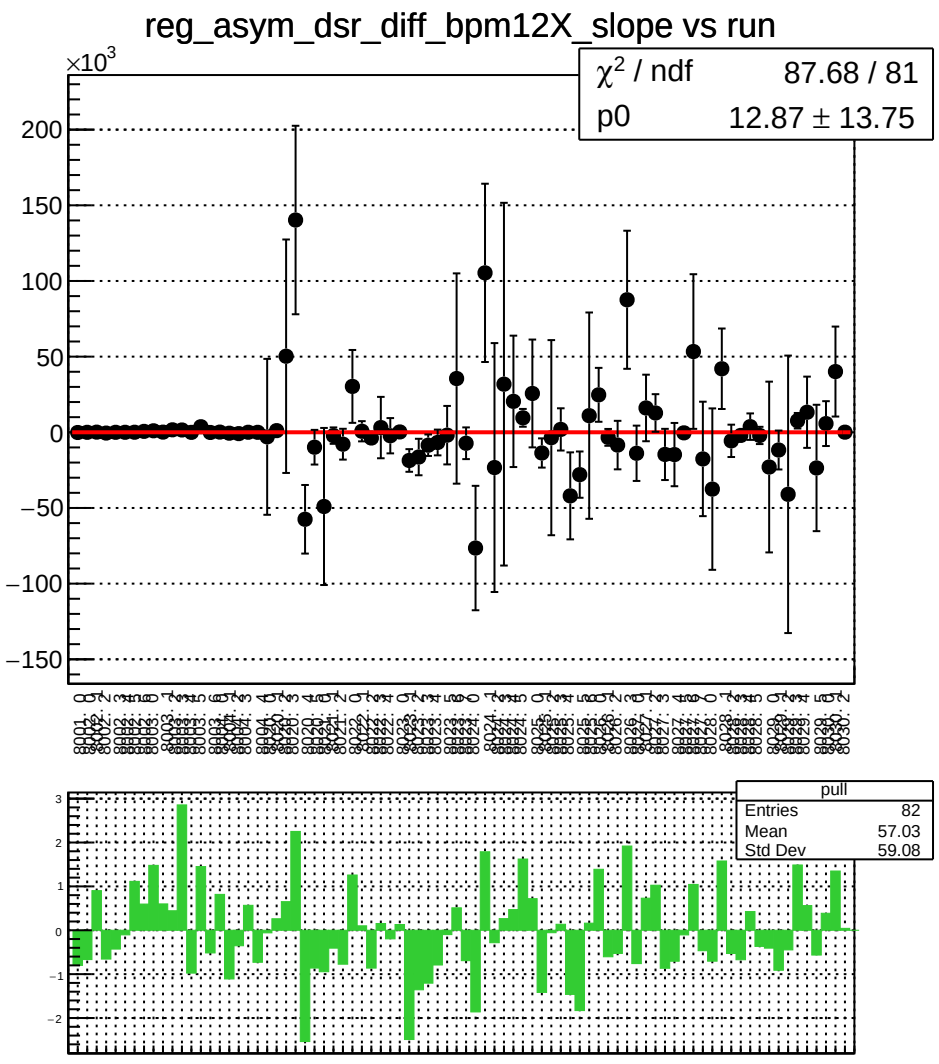

reg_asym_dsr_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 63.83 / 69
p0 −1229 ± 426.7
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 70
Mean 108.3
Std Dev 66.49
3
2
1
0
−1
−2

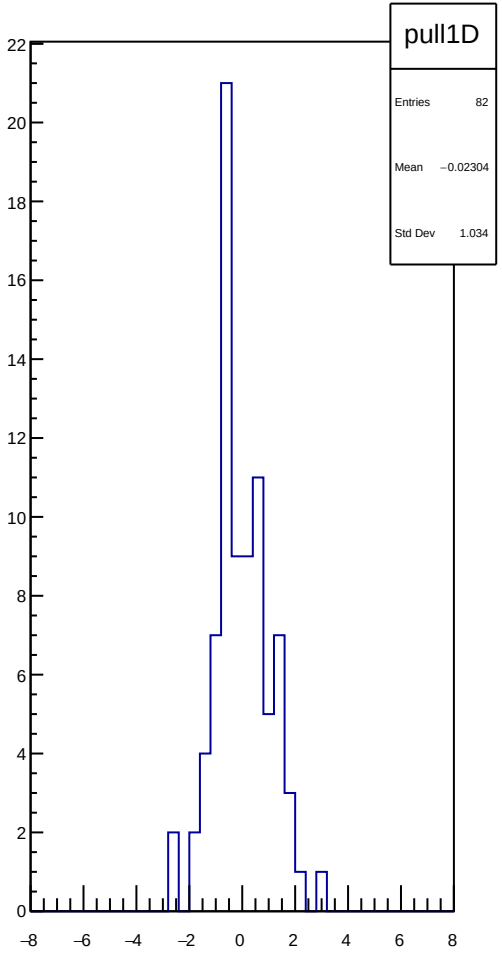

pull1D
Entries 70
Mean 0.05794
Std Dev 0.9531
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

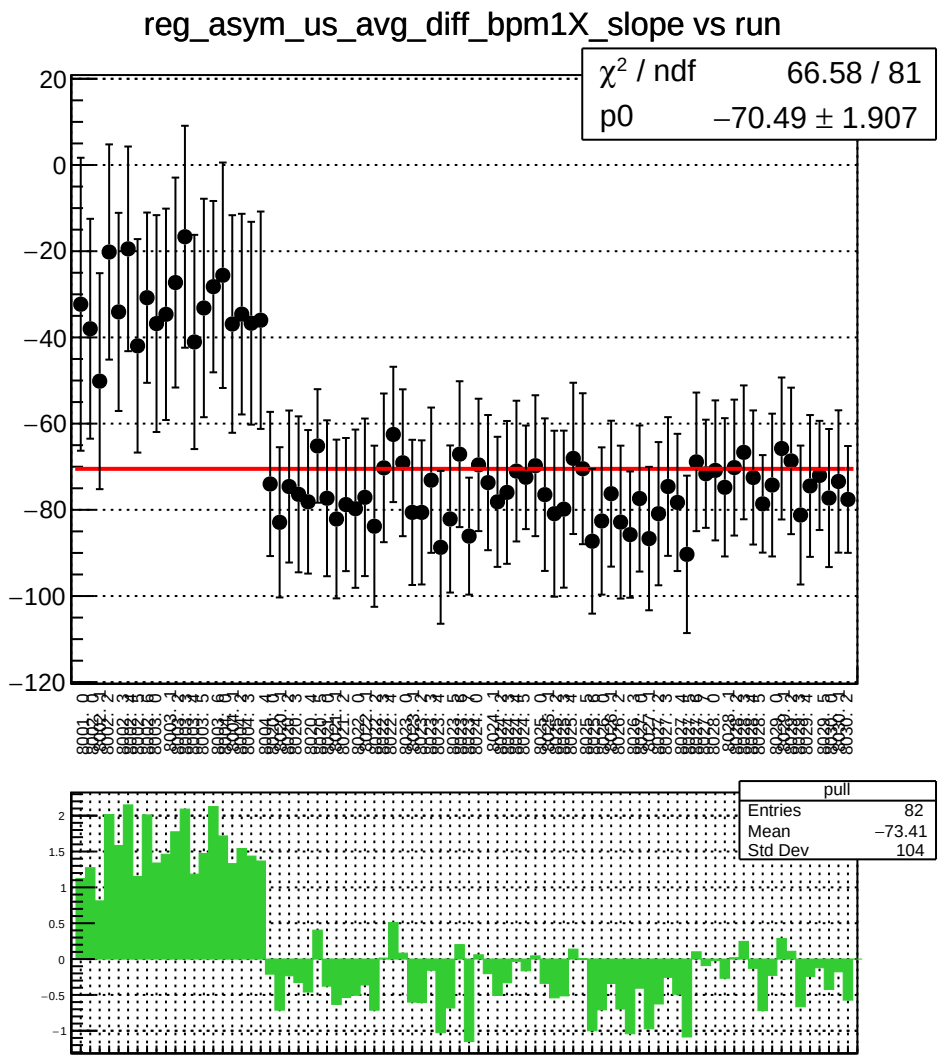

reg_asym_dsr_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 77.11 / 78
p0 −229.4 ± 364
1500
1000
500
0
−500
−1000
−1500
pull
Entries 79
Mean 30.35
Std Dev 16.61
2
1
0
−1
−2
−3

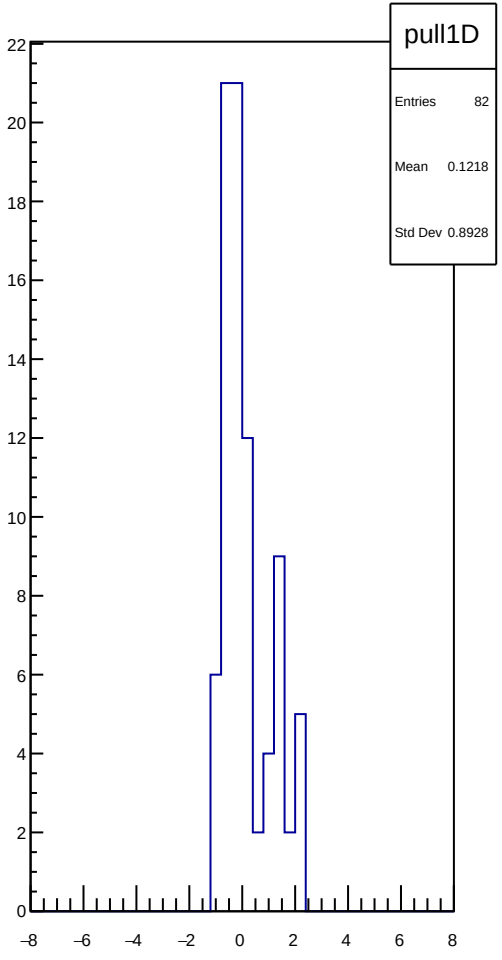

pull1D
Entries 79
Mean −0.115
Std Dev 0.9813
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

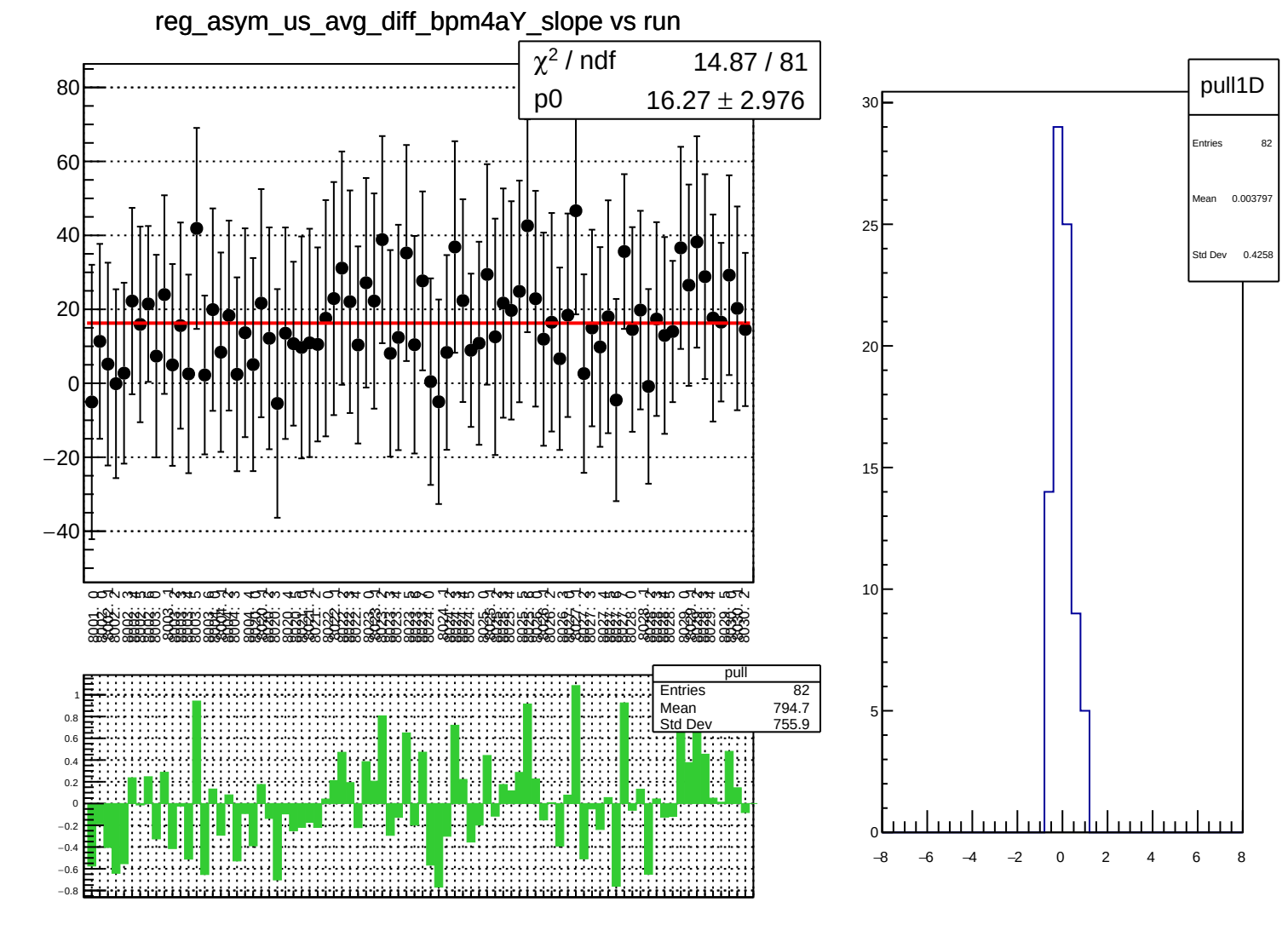

reg_asym_dsr_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 62.54 / 68
p0 1320 ± 479.9
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 69
Mean 89.52
Std Dev 47.5
pull1D
Entries 69
Mean −0.07361
Std Dev 0.9492

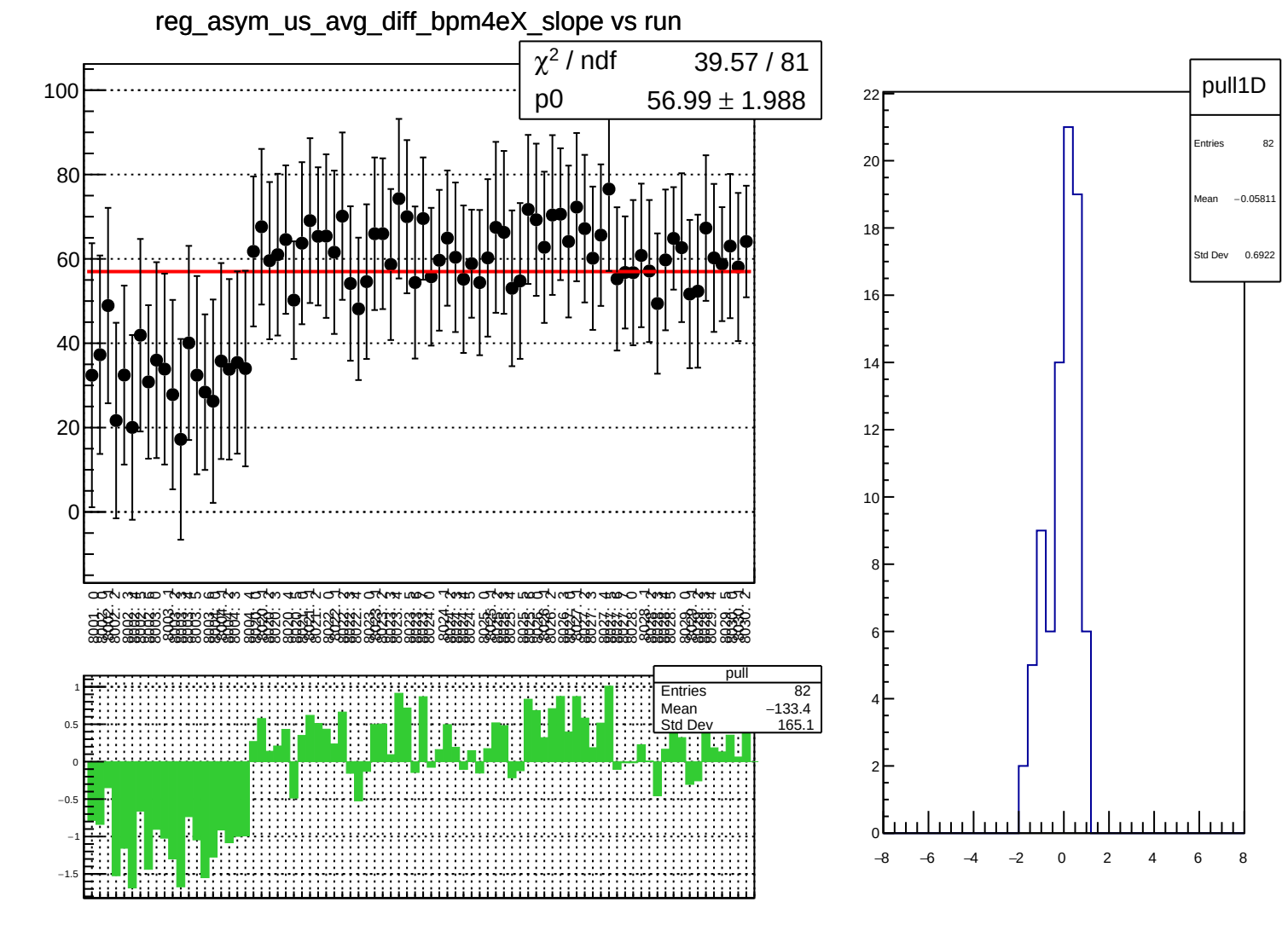

reg_asym_dsr_diff_bpm12X_slope vs run
×10^3
χ² / ndf 87.68 / 81
p0 12.87 ± 13.75
pull
Entries 82
Mean 57.03
Std Dev 59.08

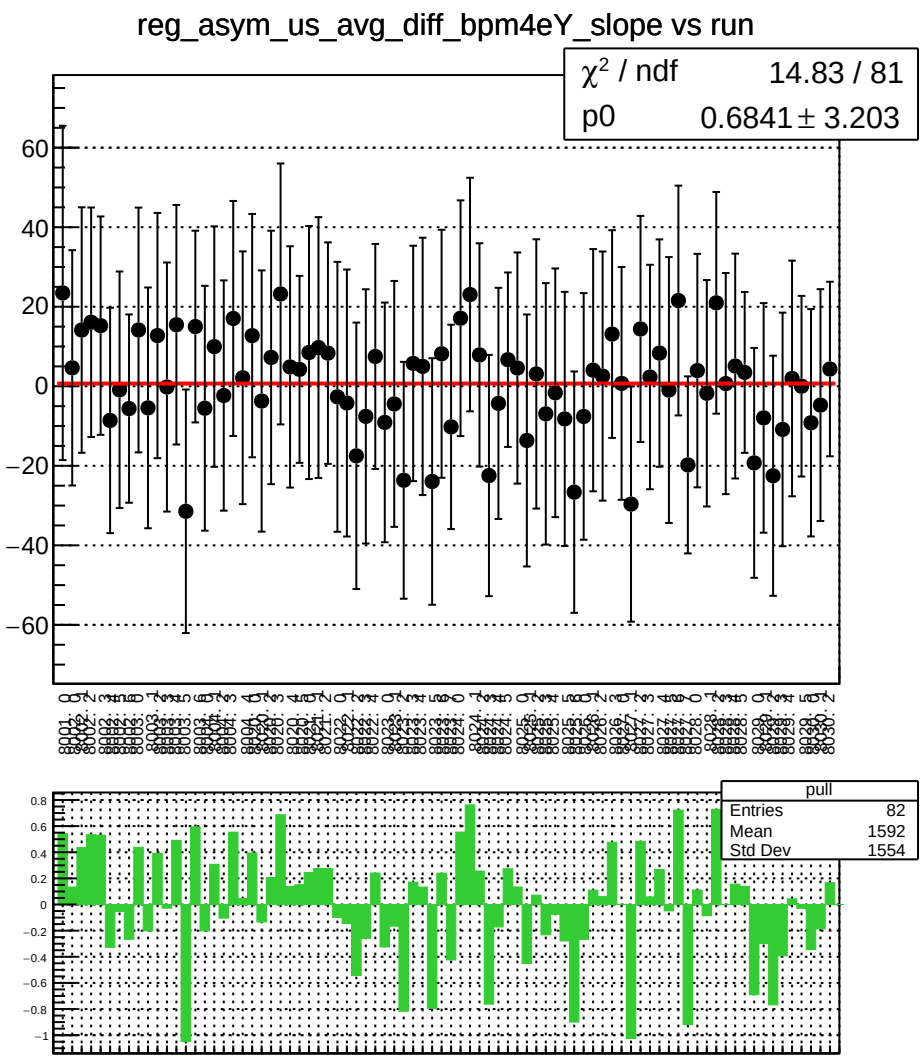

pull1D
Entries 82
Mean −0.02304
Std Dev 1.034

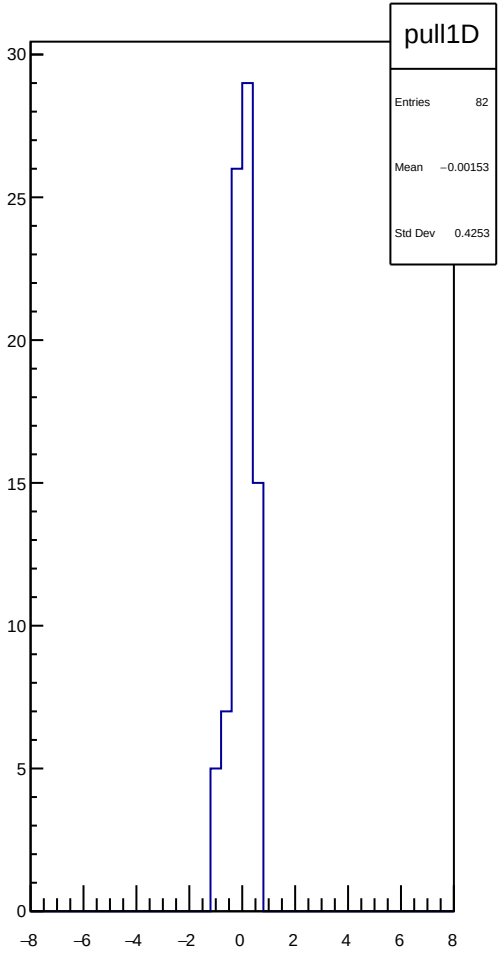

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 66.58 / 81
p0 −70.49 ± 1.907
pull
Entries 82
Mean −73.41
Std Dev 104

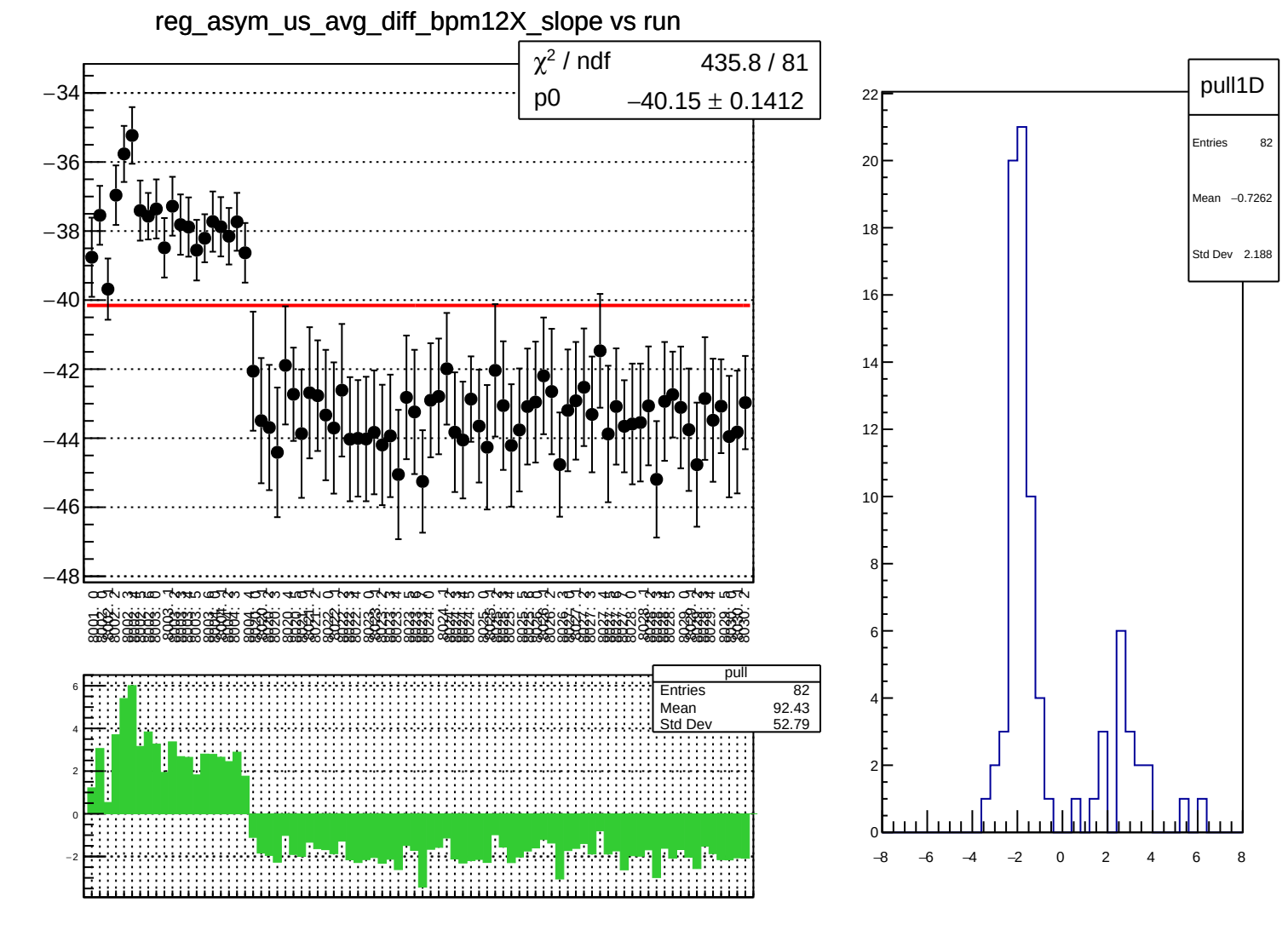

pull1D
Entries 82
Mean 0.1218
Std Dev 0.8928

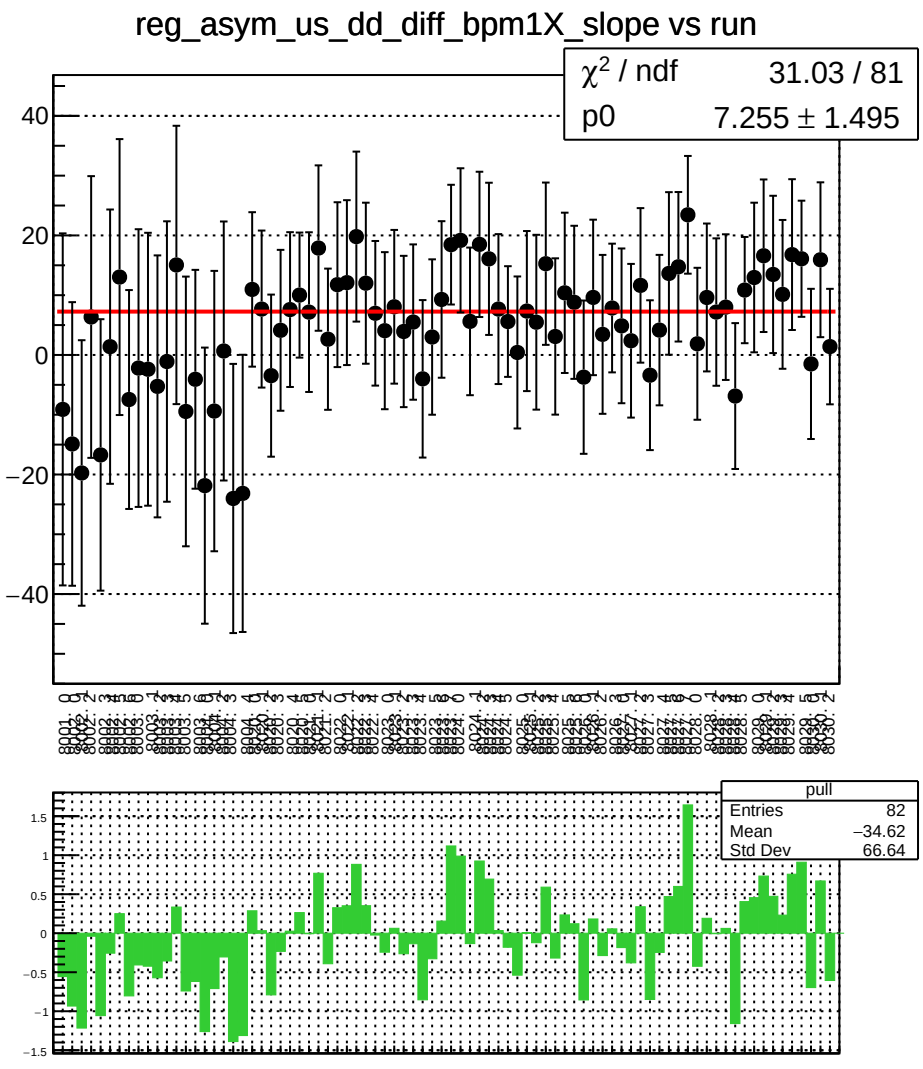

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.87 / 81
p0 16.27 ± 2.976
pull
Entries 82
Mean 794.7
Std Dev 755.9
pull1D
Entries 82
Mean 0.003797
Std Dev 0.4258

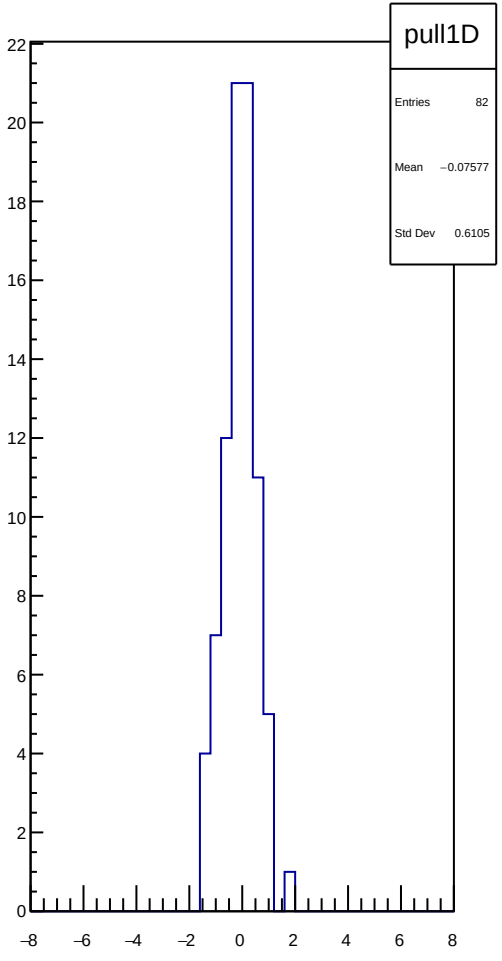

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 39.57 / 81
p0 56.99 ± 1.988
pull
Entries 82
Mean −133.4
Std Dev 165.1
pull1D
Entries 82
Mean −0.05811
Std Dev 0.6922

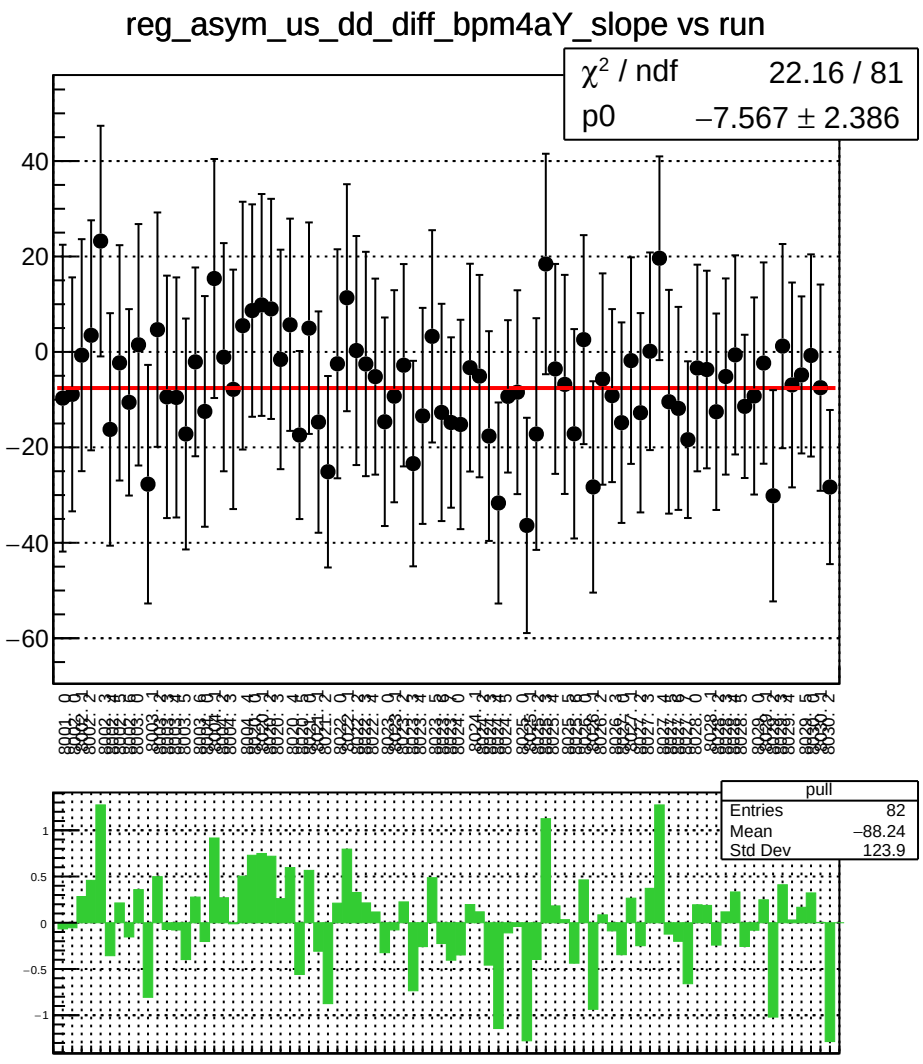

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.83 / 81
p0 0.6841 ± 3.203
pull
Entries 82
Mean 1592
Std Dev 1554

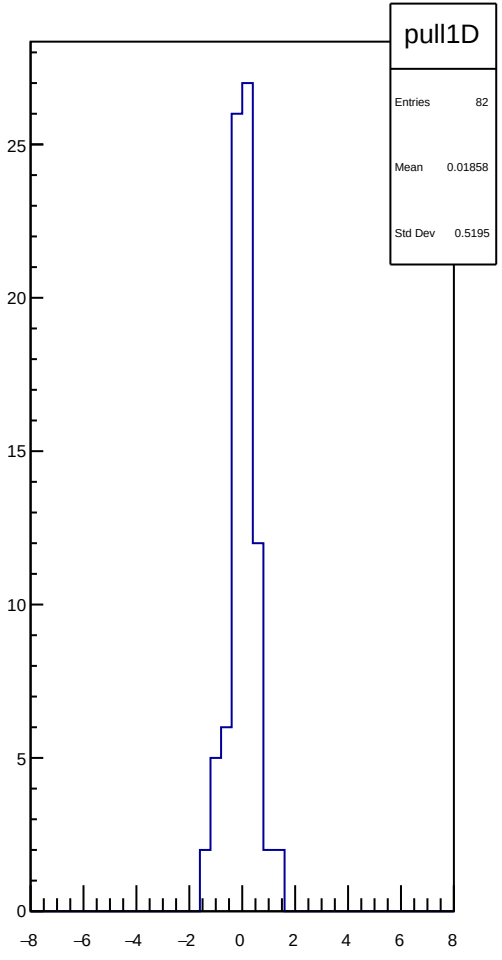

pull1D
Entries 82
Mean −0.00153
Std Dev 0.4253

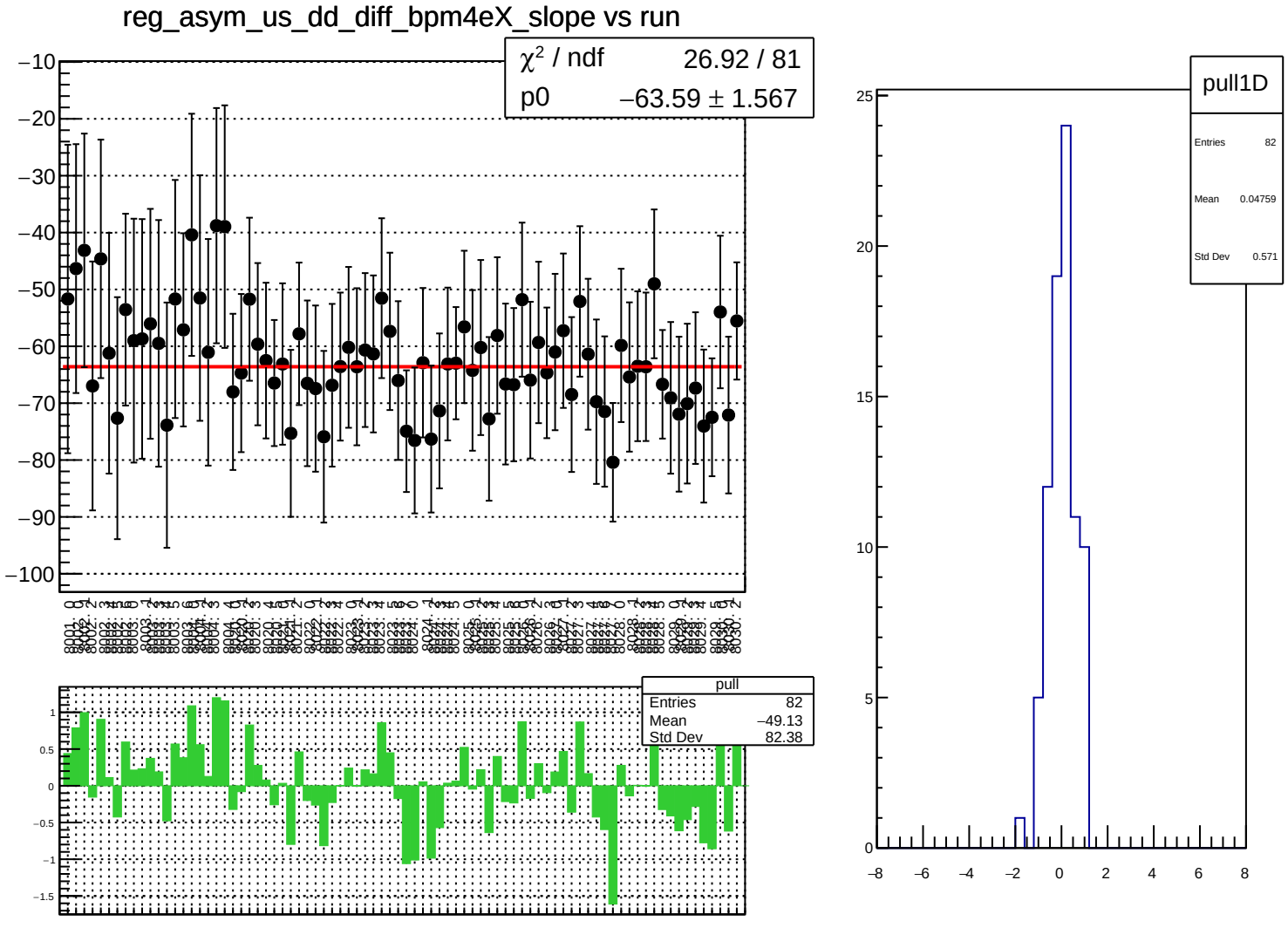

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 435.8 / 81
p0 −40.15 ± 0.1412
pull
Entries 82
Mean 92.43
Std Dev 52.79
pull1D
Entries 82
Mean −0.7262
Std Dev 2.188

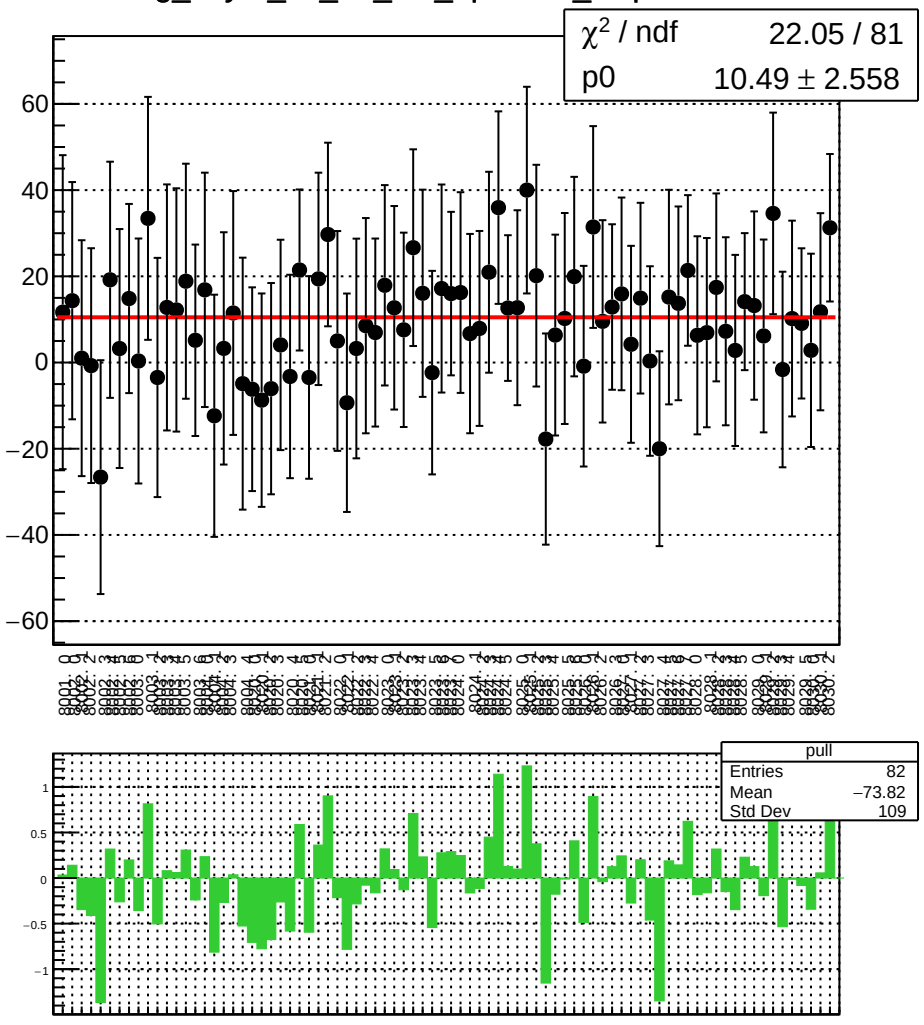

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 31.03 / 81
p0 7.255 ± 1.495
pull
Entries 82
Mean −34.62
Std Dev 66.64

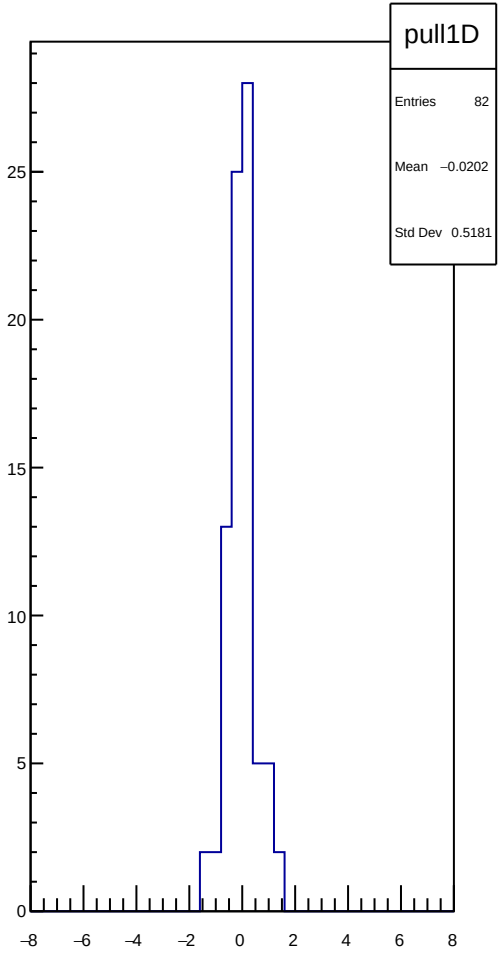

pull1D
Entries 82
Mean −0.07577
Std Dev 0.6105

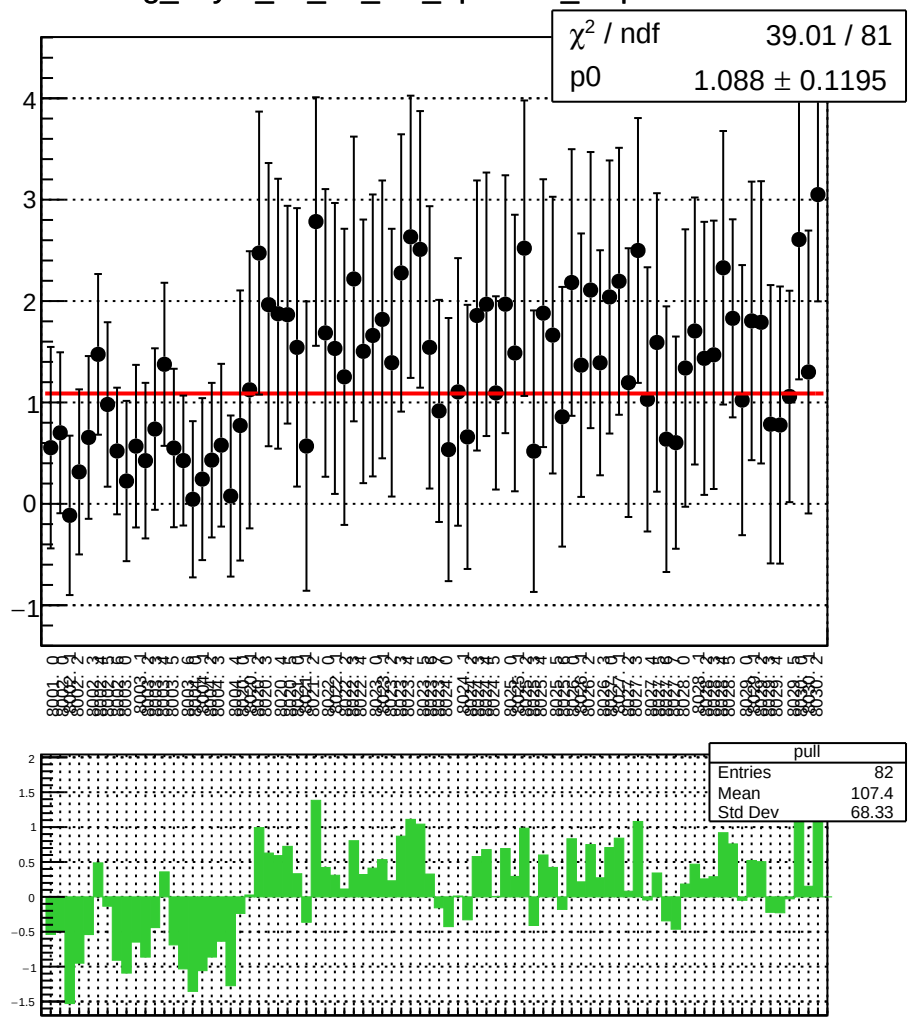

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.16 / 81
p0 −7.567 ± 2.386
40
20
0
−20
−40
−60
pull
Entries 82
Mean −88.24
Std Dev 123.9
1
0.5
0
−0.5
−1

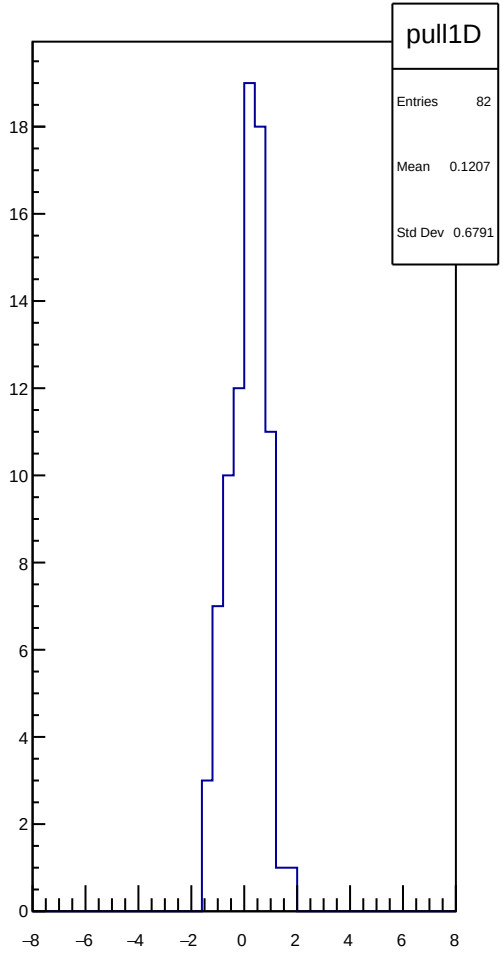

pull1D
Entries 82
Mean 0.01858
Std Dev 0.5195
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

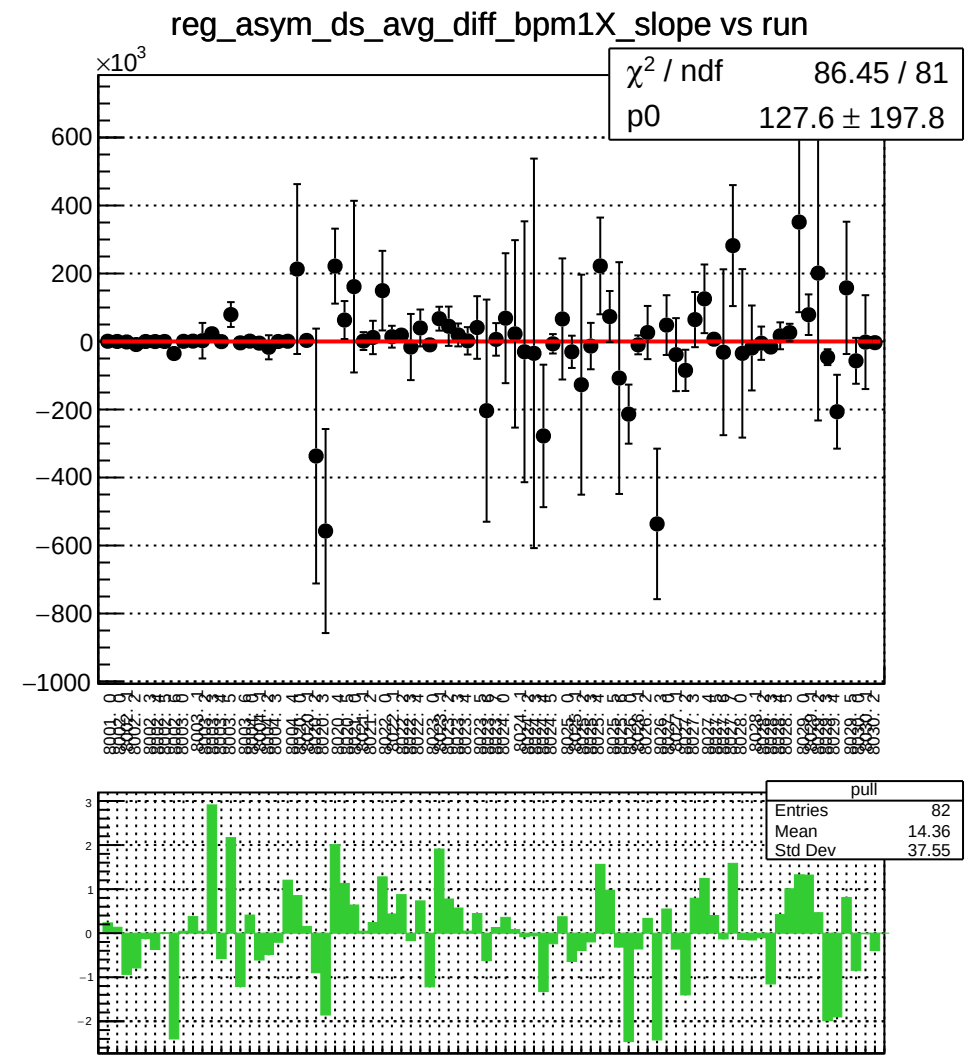

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.92 / 81
p0 −63.59 ± 1.567
pull
Entries 82
Mean −49.13
Std Dev 82.38
pull1D
Entries 82
Mean 0.04759
Std Dev 0.571

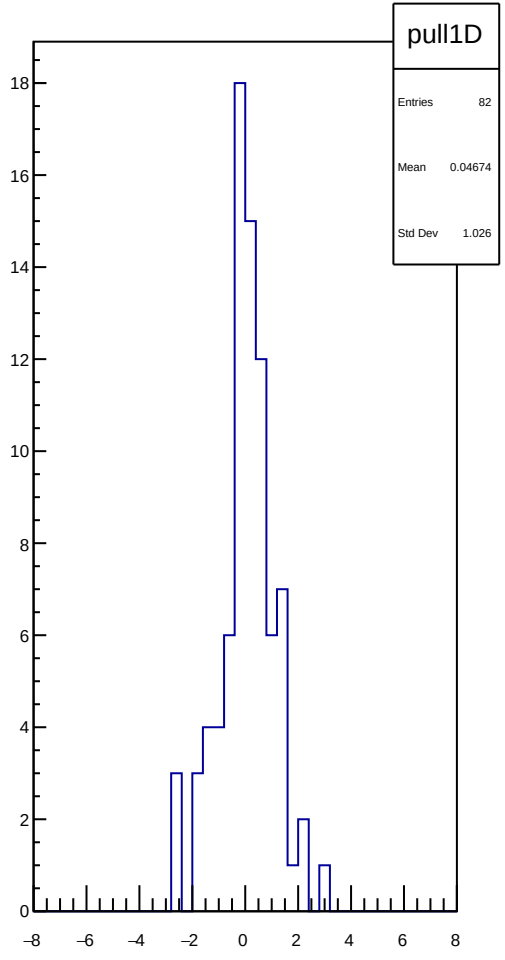

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.05 / 81
p0 10.49 ± 2.558
pull
Entries 82
Mean −73.82
Std Dev 109

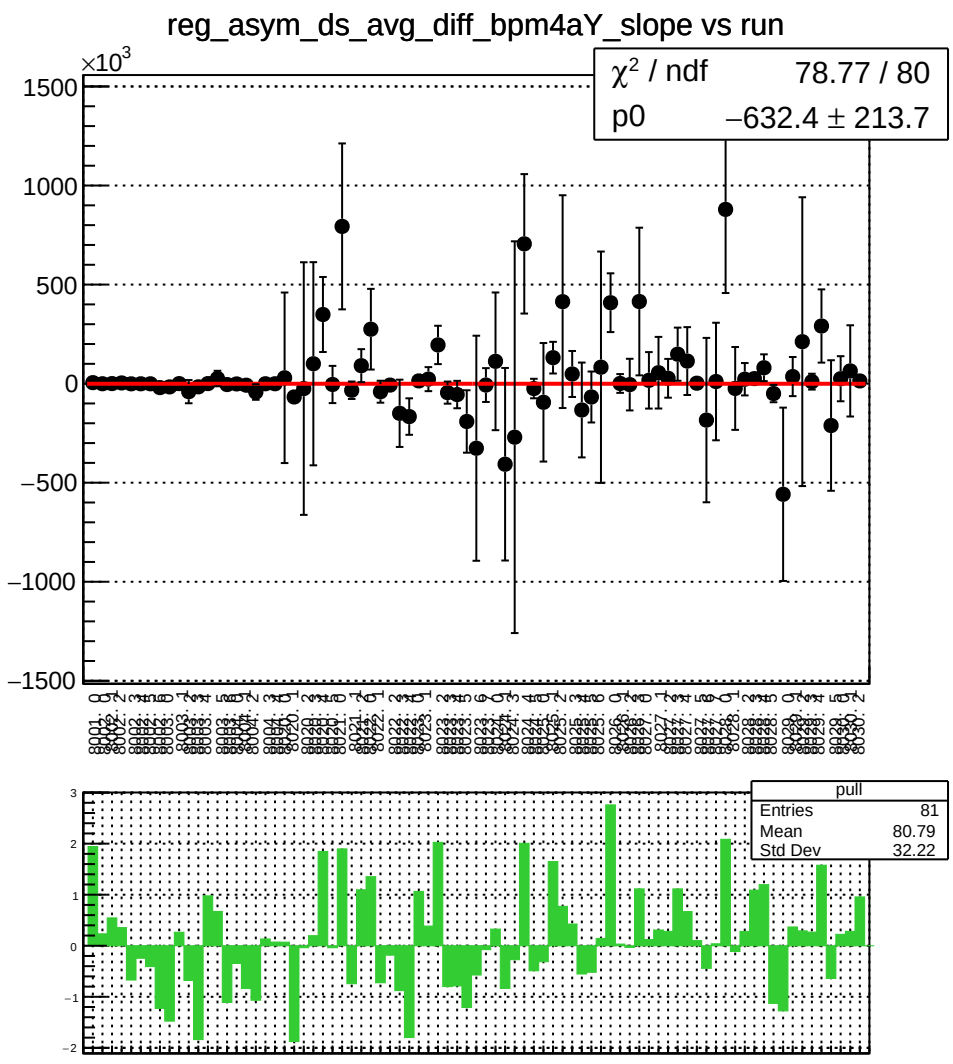

pull1D
Entries 82
Mean −0.0202
Std Dev 0.5181

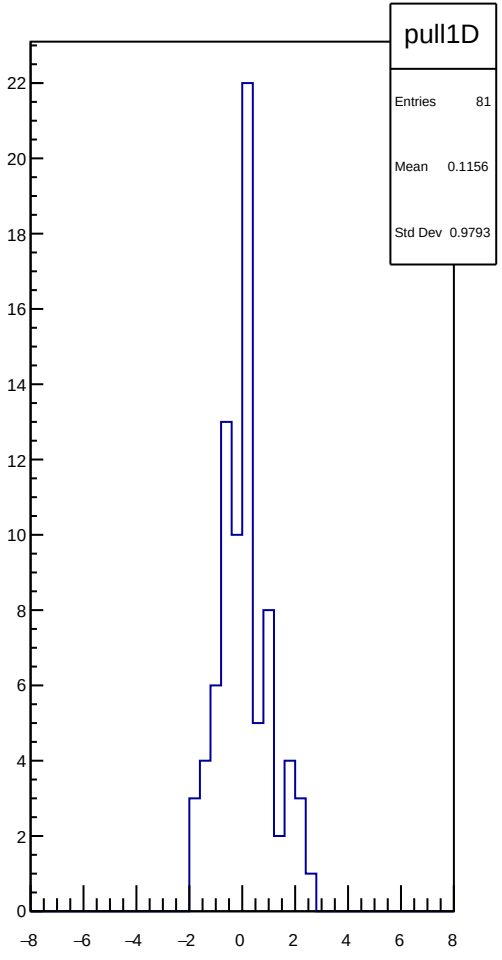

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 39.01 / 81
p0 1.088 ± 0.1195
pull
Entries 82
Mean 107.4
Std Dev 68.33

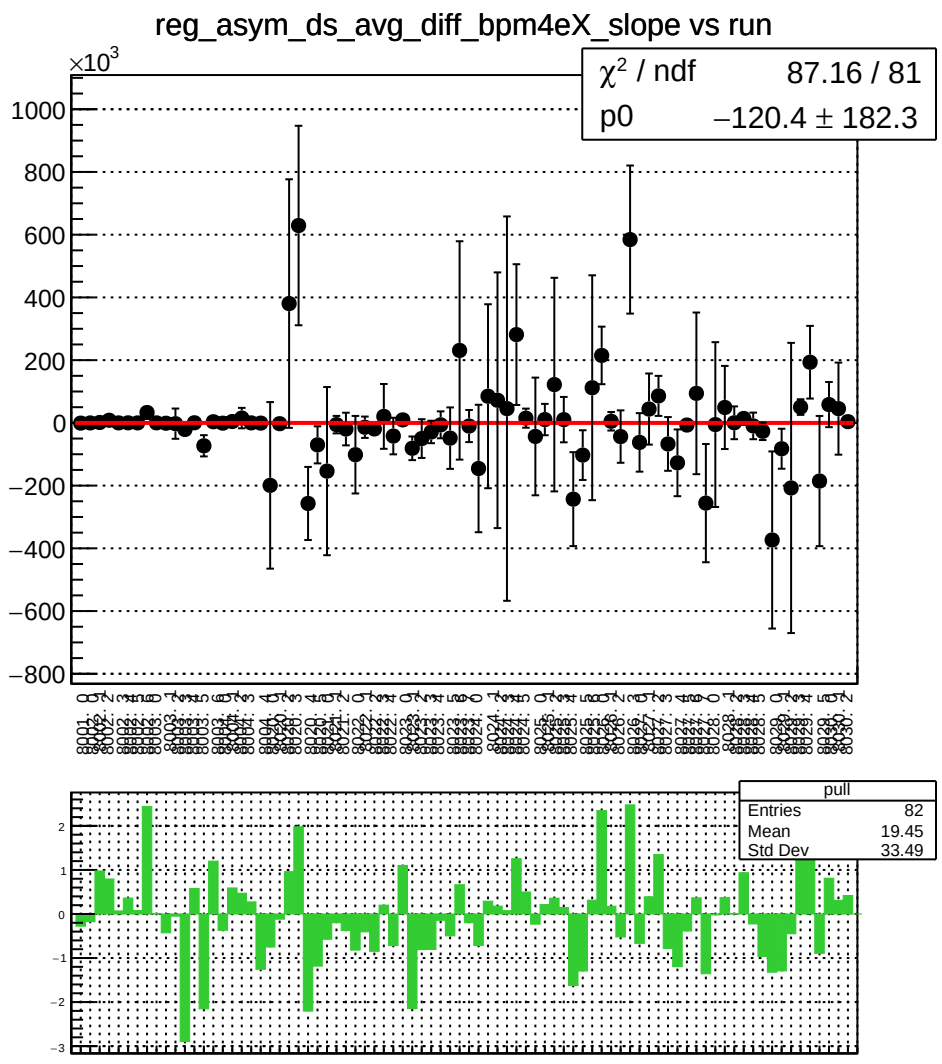

pull1D
Entries 82
Mean 0.1207
Std Dev 0.6791

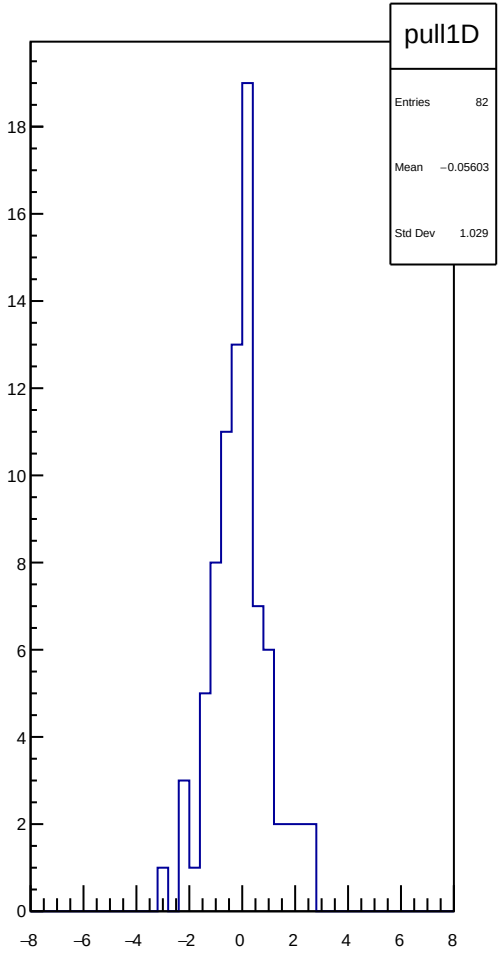

reg_asym_ds_avg_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 86.45 / 81
p0 127.6 ± 197.8
pull
Entries 82
Mean 14.36
Std Dev 37.55

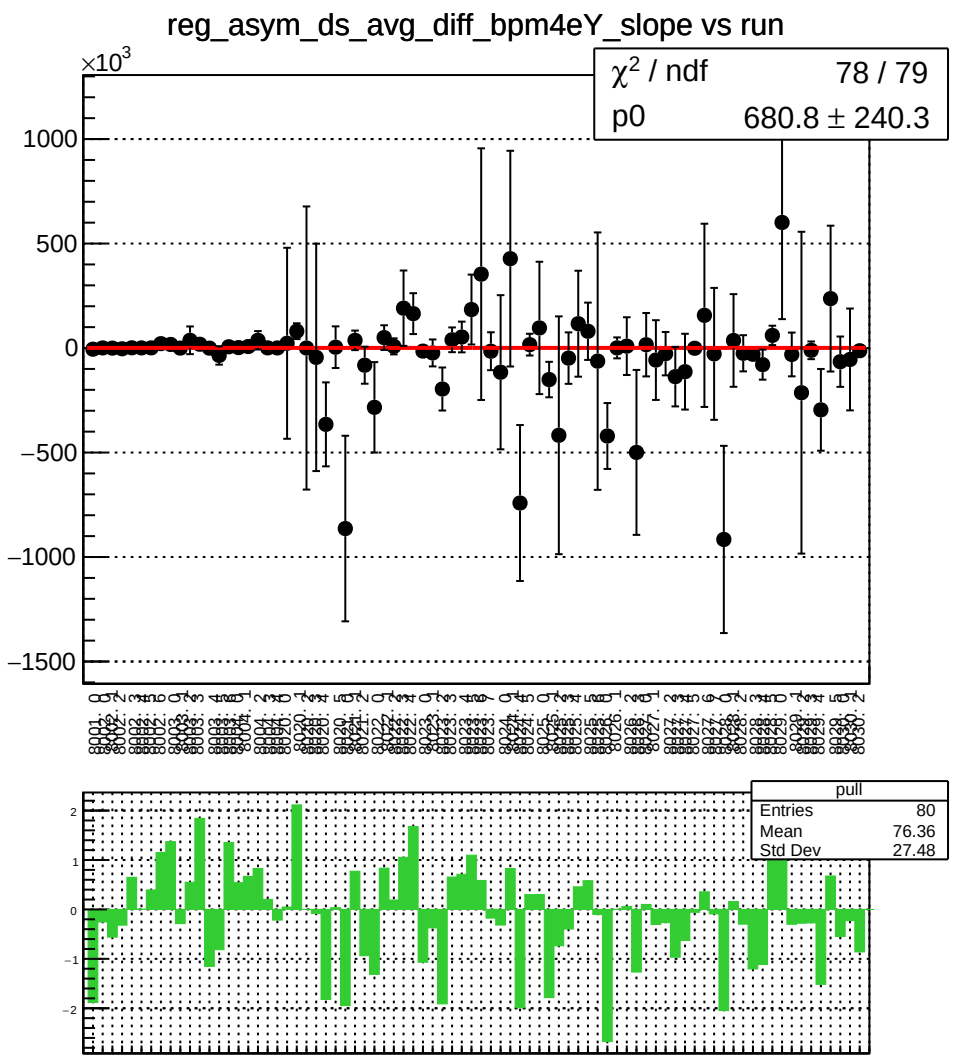

pull1D
Entries 82
Mean 0.04674
Std Dev 1.026

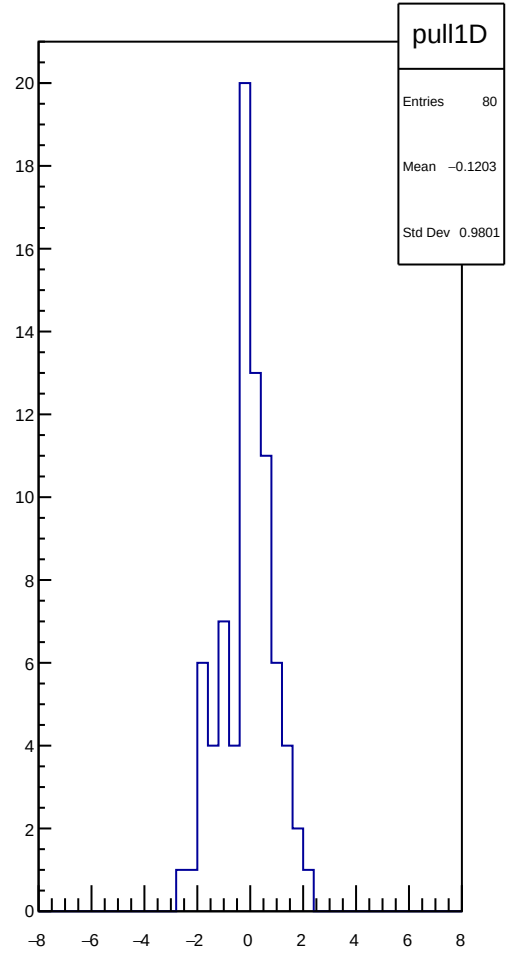

reg_asym_ds_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 78.77 / 80
p0 −632.4 ± 213.7
pull
Entries 81
Mean 80.79
Std Dev 32.22

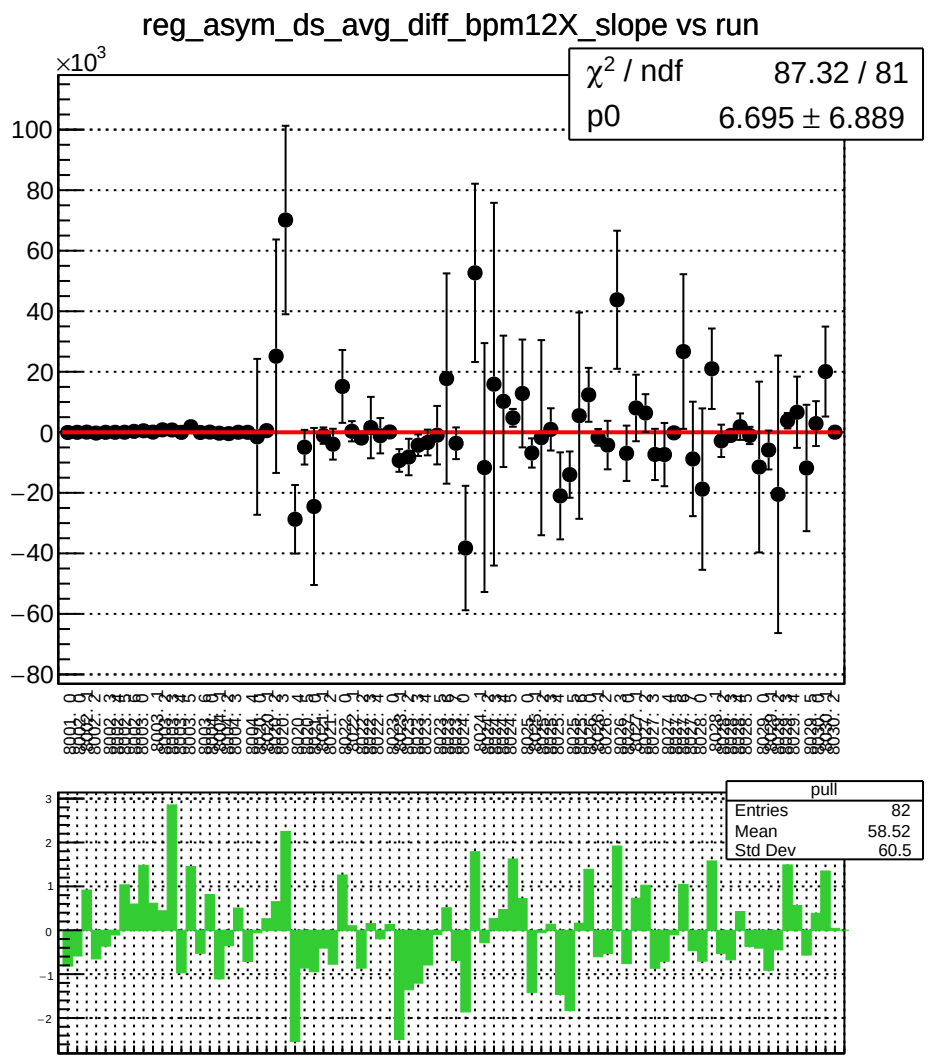

pull1D
Entries 81
Mean 0.1156
Std Dev 0.9793

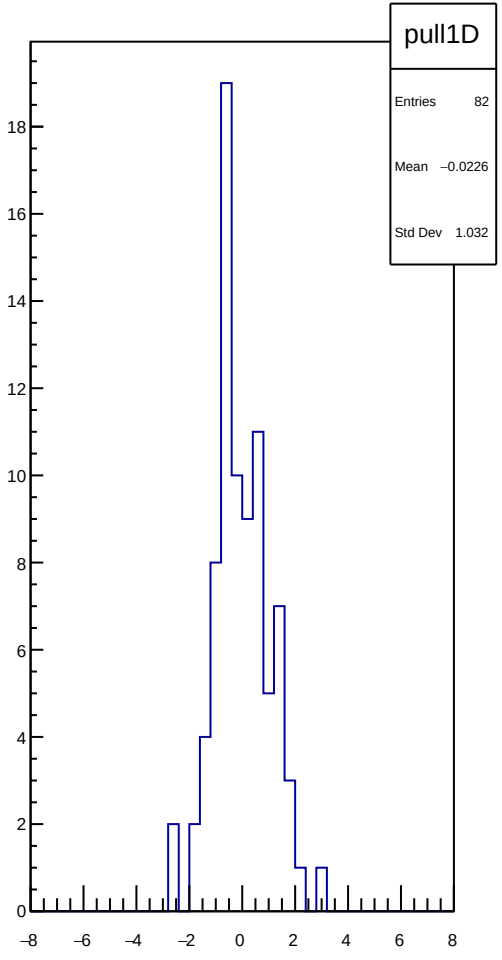

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 87.16 / 81
p0 −120.4 ± 182.3
pull
Entries 82
Mean 19.45
Std Dev 33.49

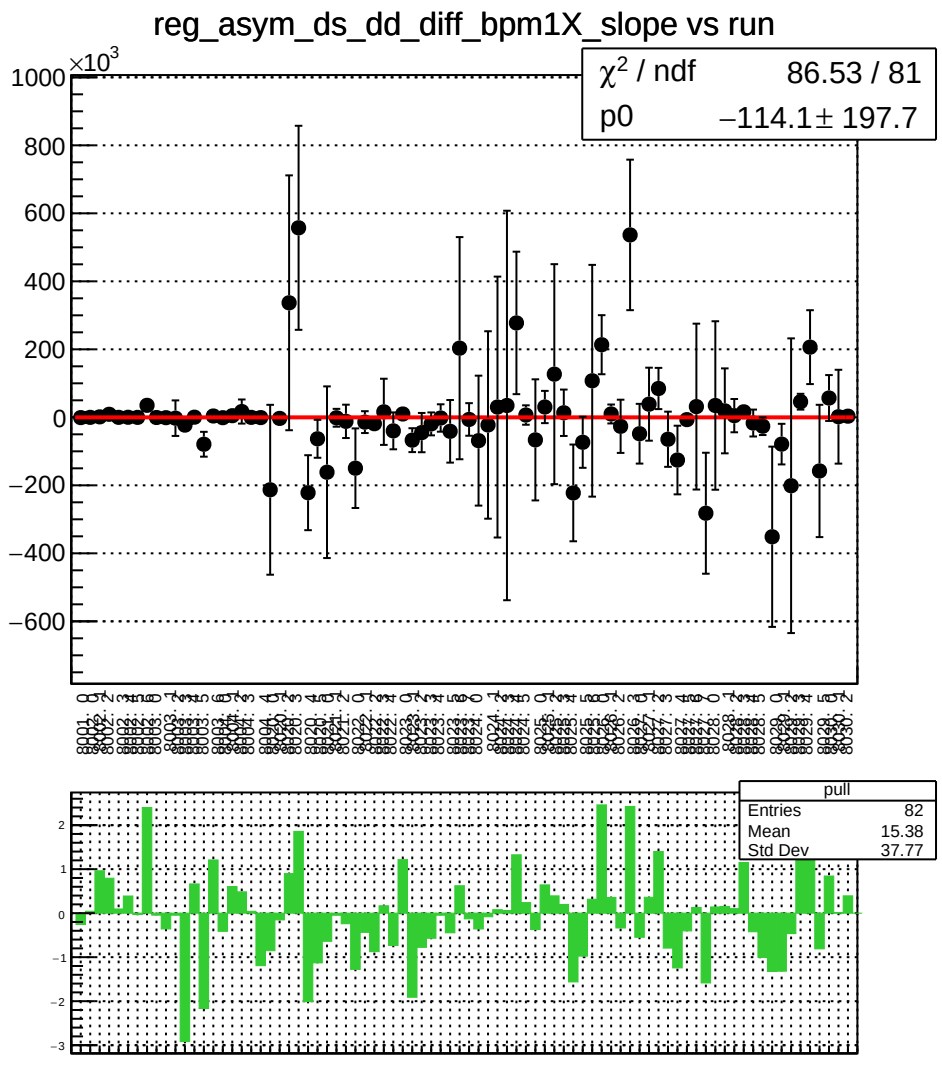

pull1D
Entries 82
Mean −0.05603
Std Dev 1.029

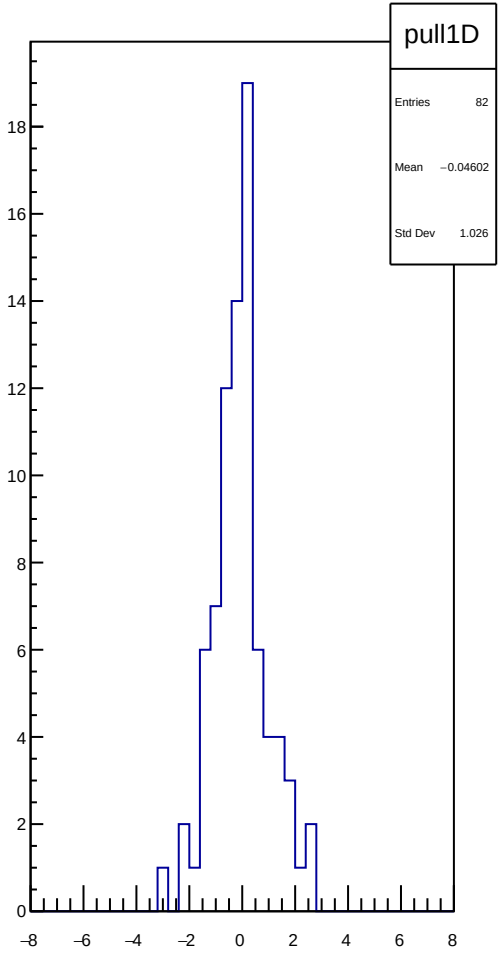

reg_asym_ds_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 78 / 79
p0 680.8 ± 240.3
1000
500
0
−500
−1000
−1500
pull
Entries 80
Mean 76.36
Std Dev 27.48
2
1
0
−1

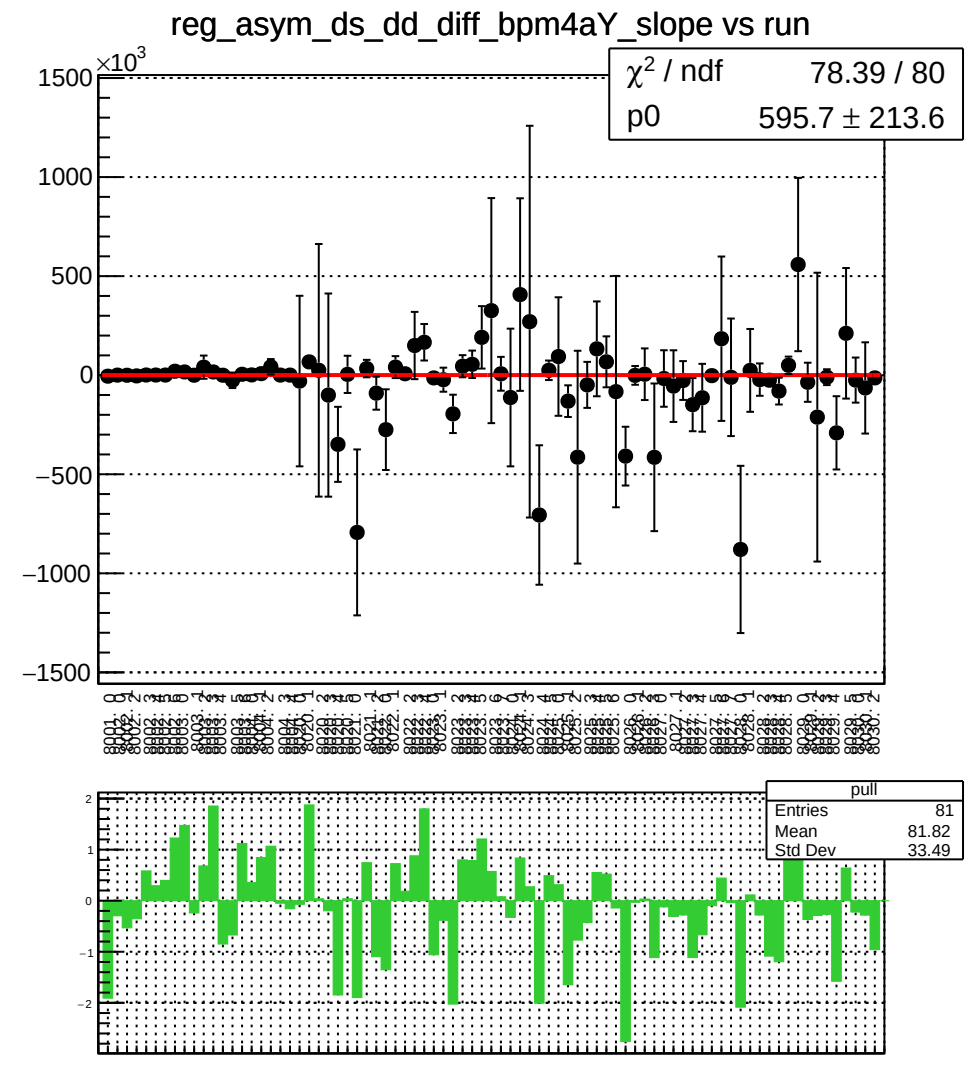

pull1D
Entries 80
Mean −0.1203
Std Dev 0.9801
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

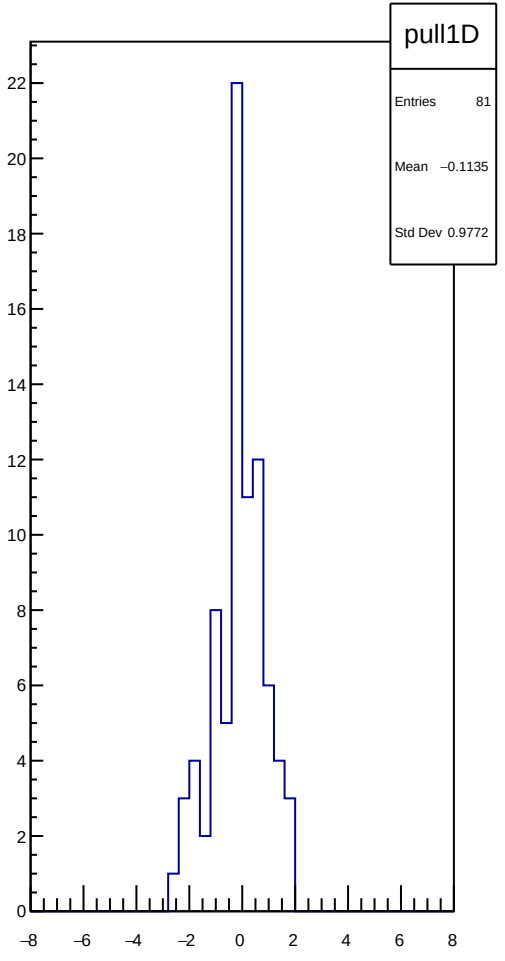

reg_asym_ds_avg_diff_bpm12X_slope vs run
×10^3
χ^2 / ndf 87.32 / 81
p0 6.695 ± 6.889
pull
Entries 82
Mean 58.52
Std Dev 60.5

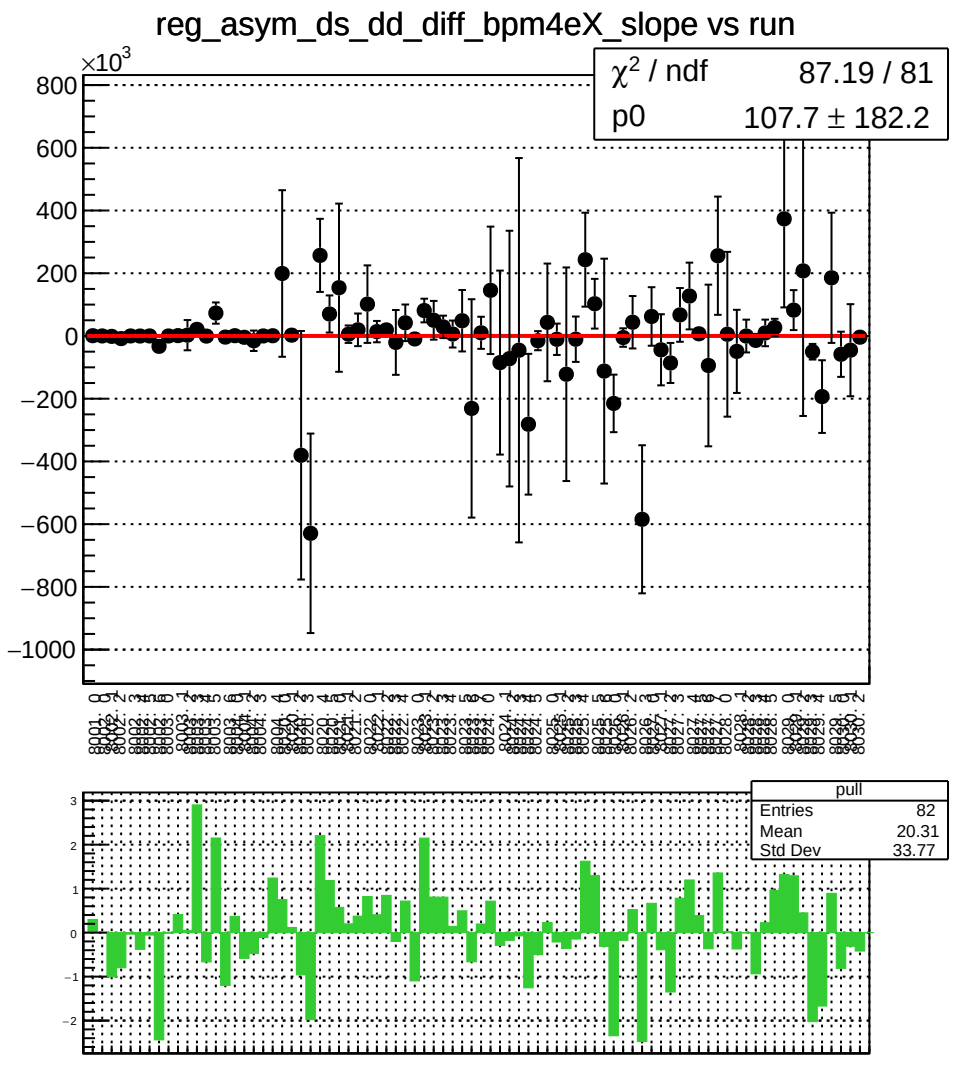

pull1D
Entries 82
Mean −0.0226
Std Dev 1.032

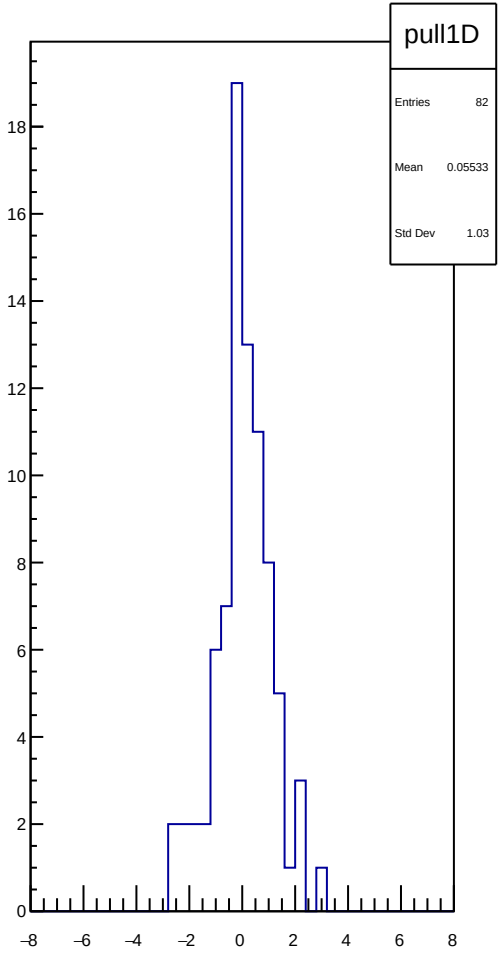

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 86.53 / 81
p0 −114.1± 197.7
×10³
pull
Entries 82
Mean 15.38
Std Dev 37.77

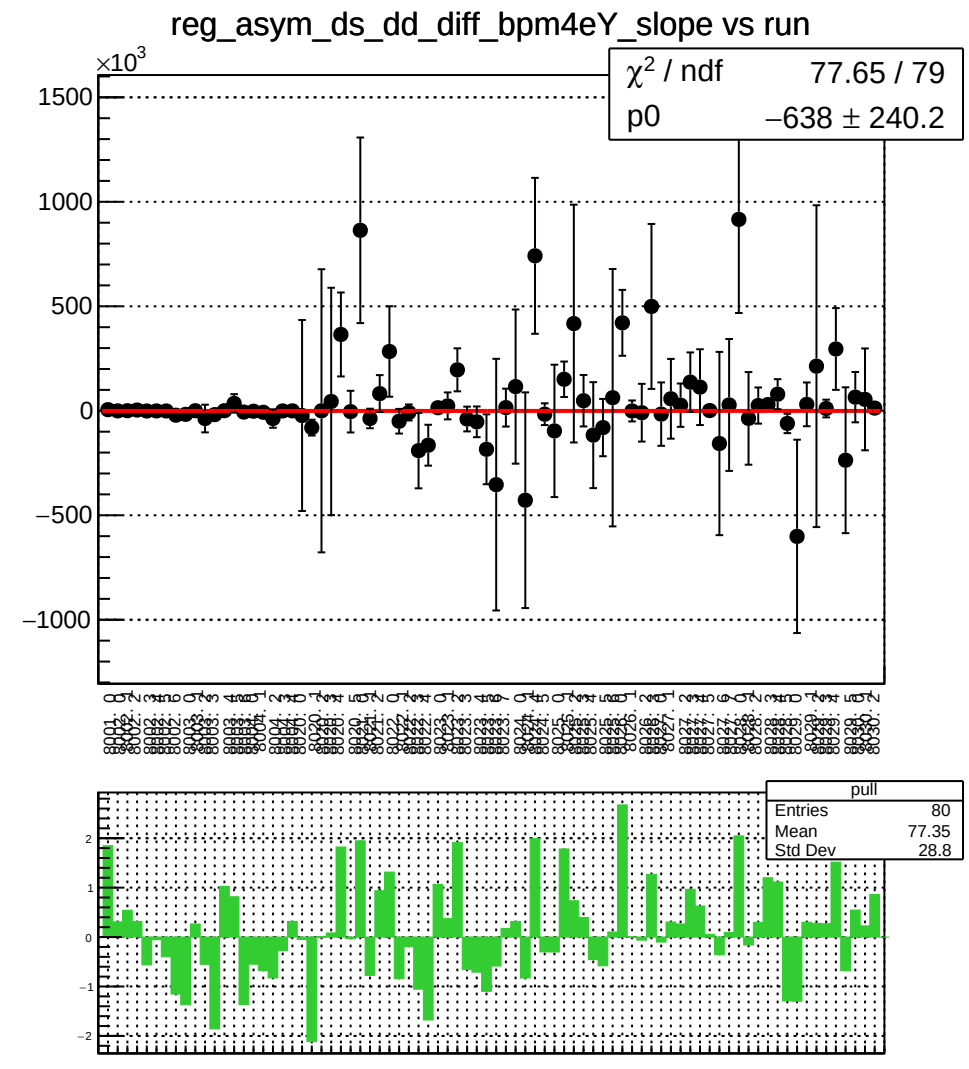

pull1D
Entries 82
Mean −0.04602
Std Dev 1.026

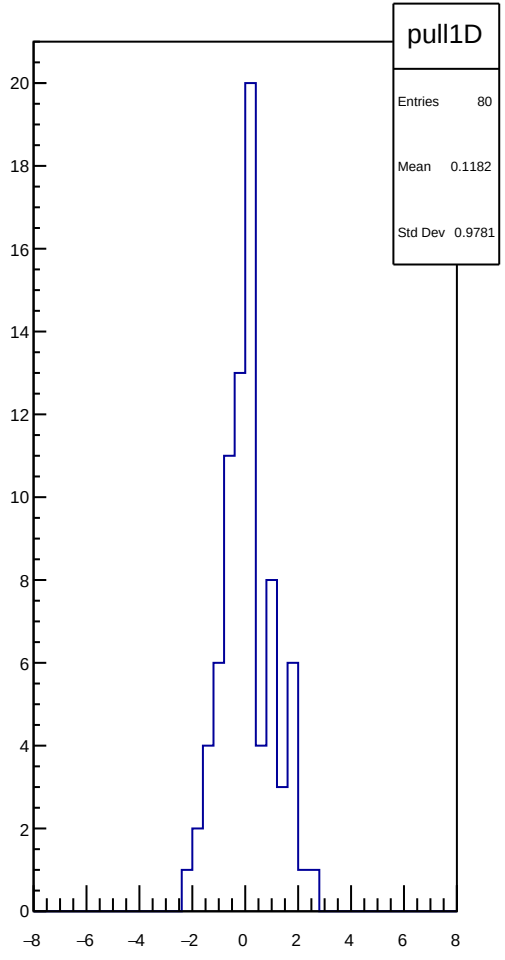

reg_asym_ds_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 78.39 / 80
p0 595.7 ± 213.6
pull
Entries 81
Mean 81.82
Std Dev 33.49

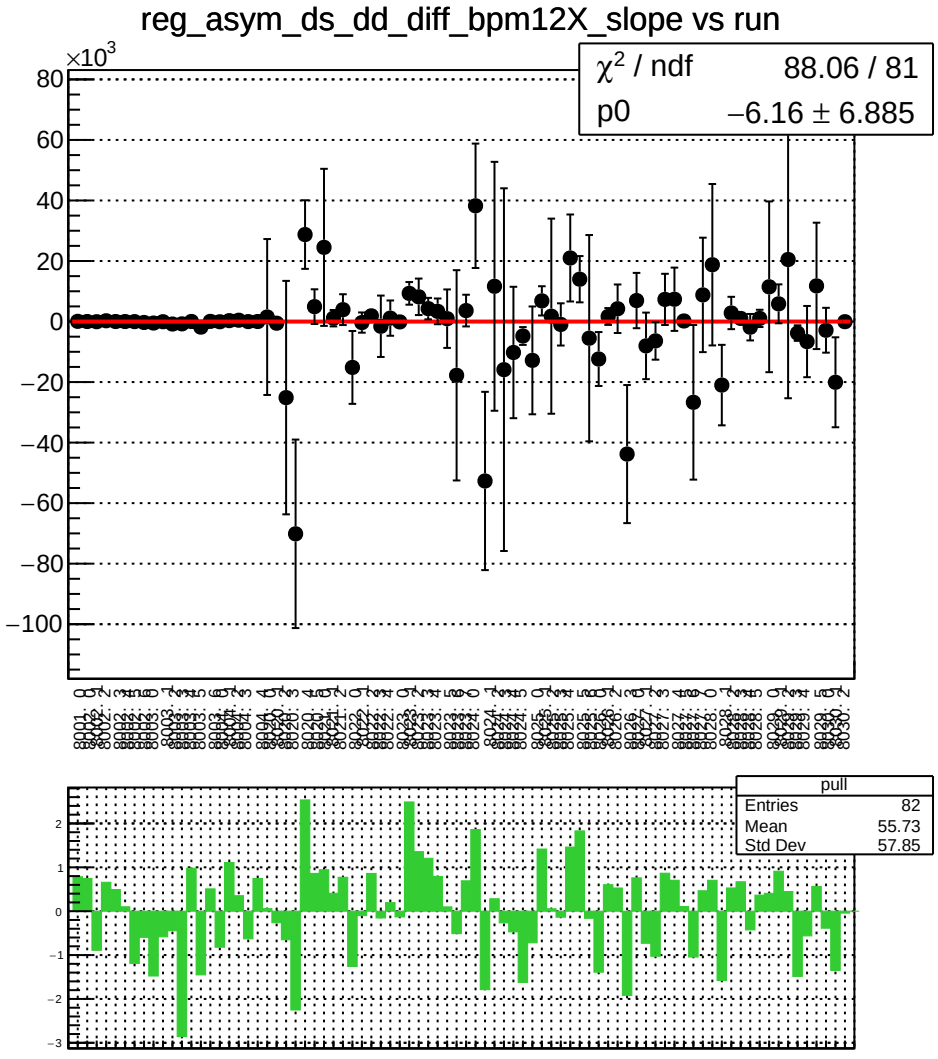

pull1D
Entries 81
Mean −0.1135
Std Dev 0.9772

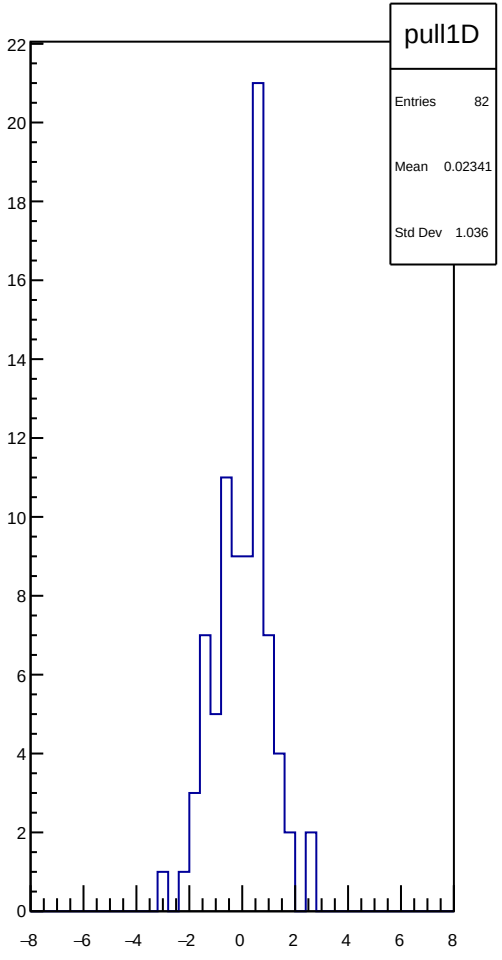

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 87.19 / 81
p0 107.7 ± 182.2
pull
Entries 82
Mean 20.31
Std Dev 33.77

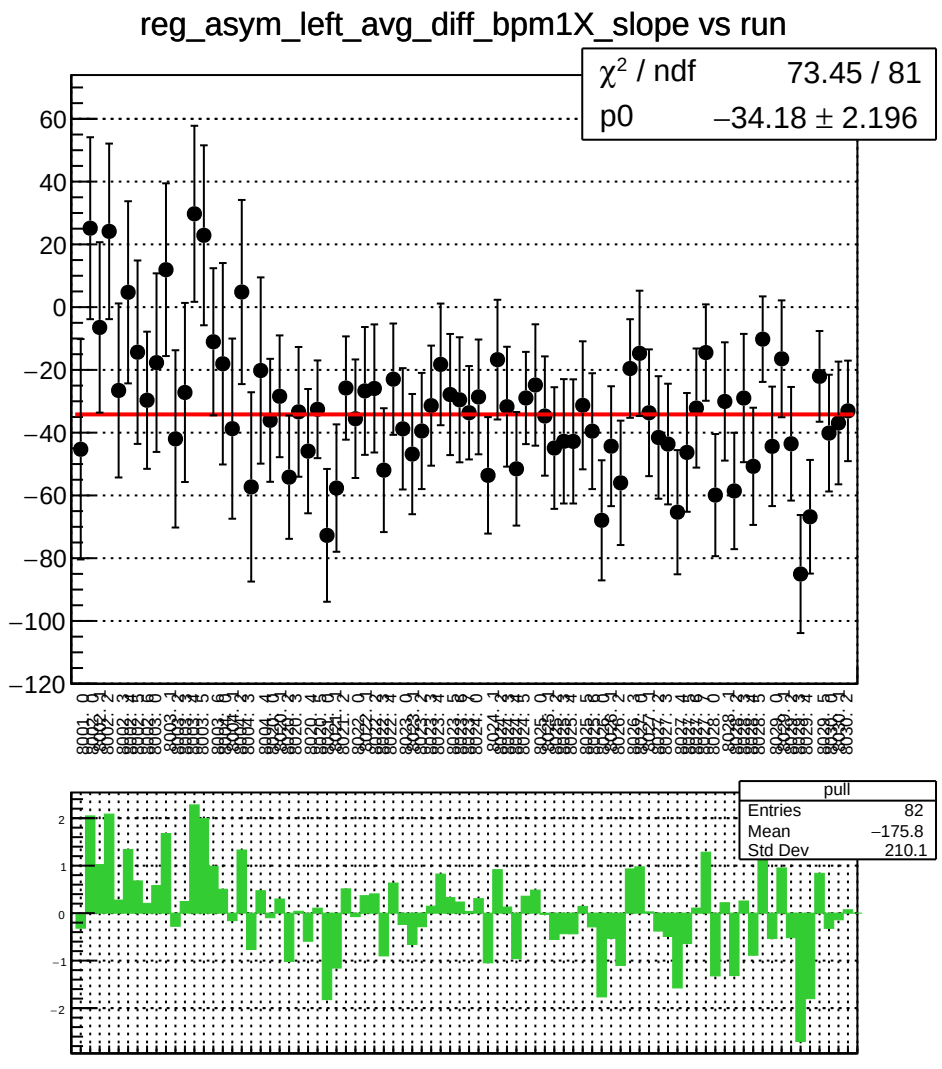

pull1D
Entries 82
Mean 0.05533
Std Dev 1.03

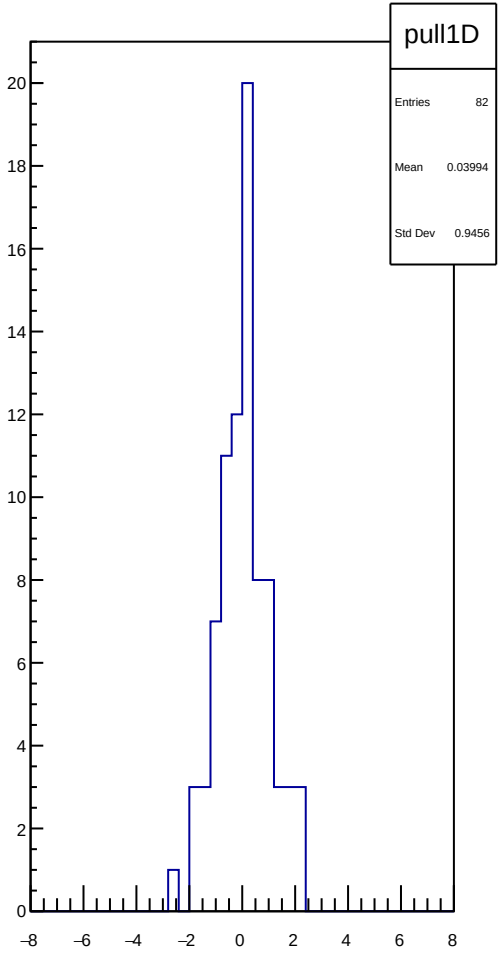

reg_asym_ds_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 77.65 / 79
p0 −638 ± 240.2
1500
1000
500
0
−500
−1000
pull
Entries 80
Mean 77.35
Std Dev 28.8
2
1
0
−1
−2

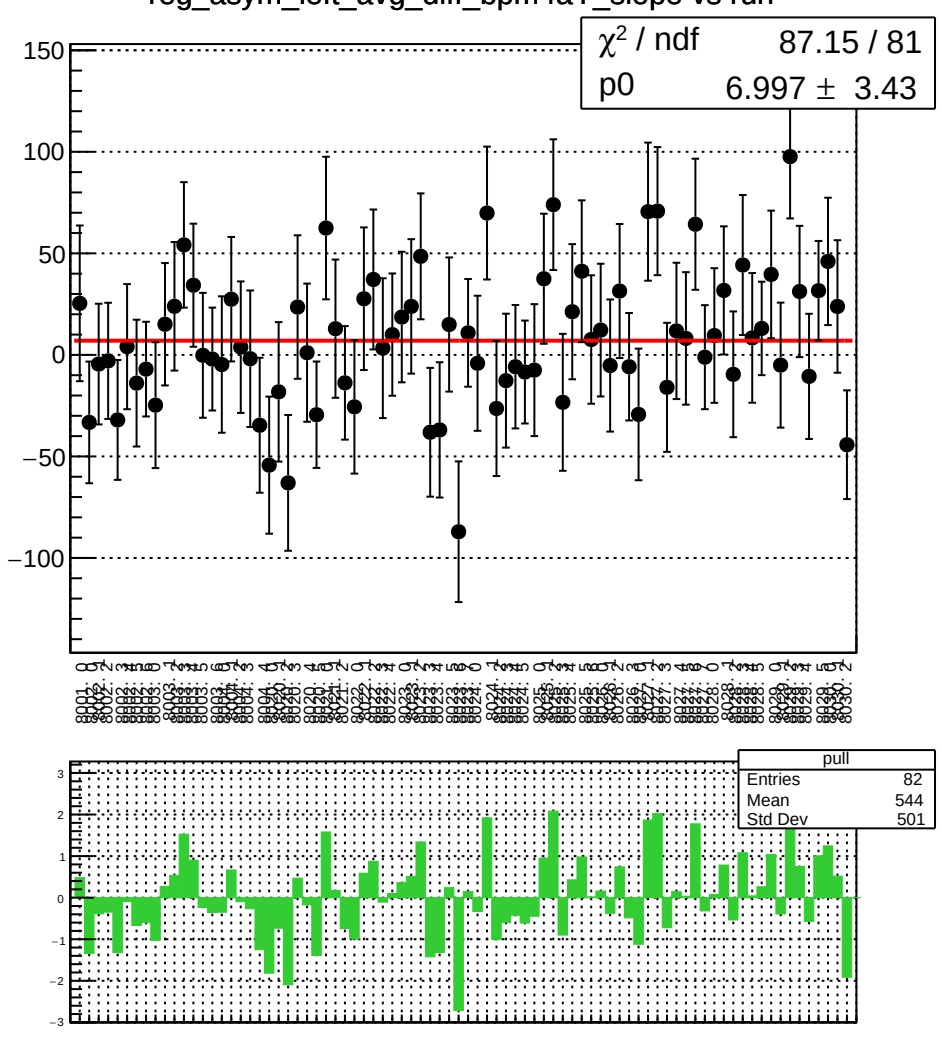

pull1D
Entries 80
Mean 0.1182
Std Dev 0.9781
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

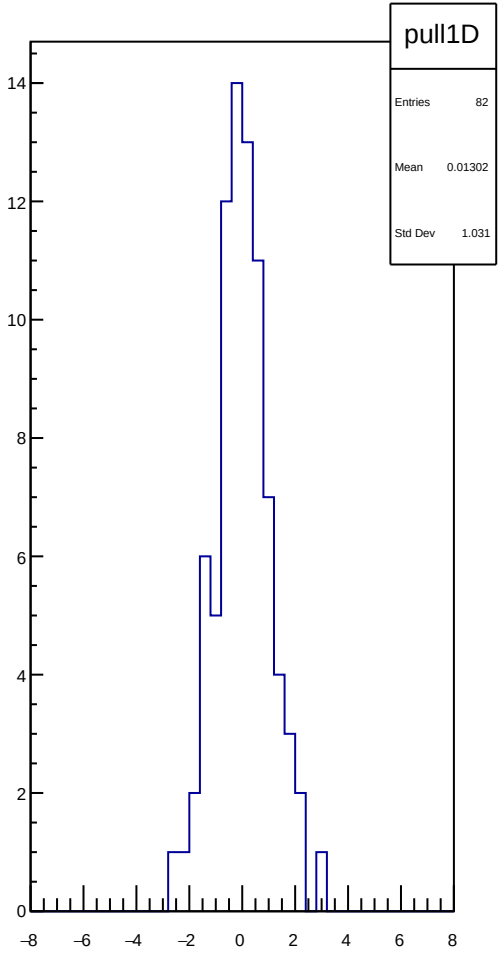

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 88.06 / 81
p0 −6.16 ± 6.885
×10³
pull
Entries 82
Mean 55.73
Std Dev 57.85

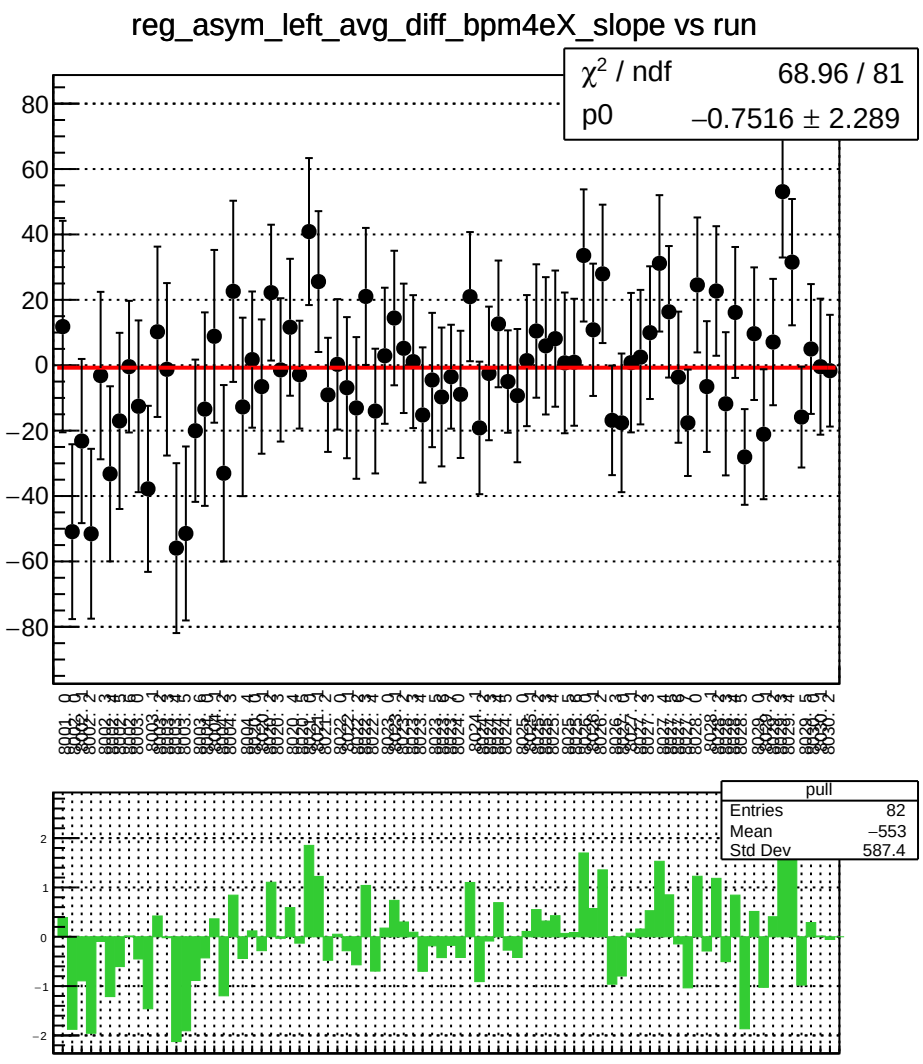

pull1D
Entries 82
Mean 0.02341
Std Dev 1.036

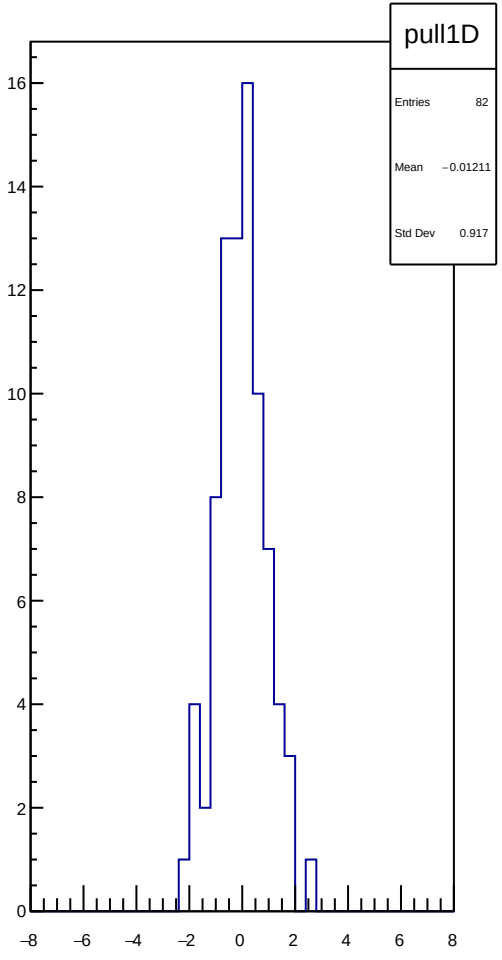

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 73.45 / 81
p0 −34.18 ± 2.196
pull
Entries 82
Mean −175.8
Std Dev 210.1

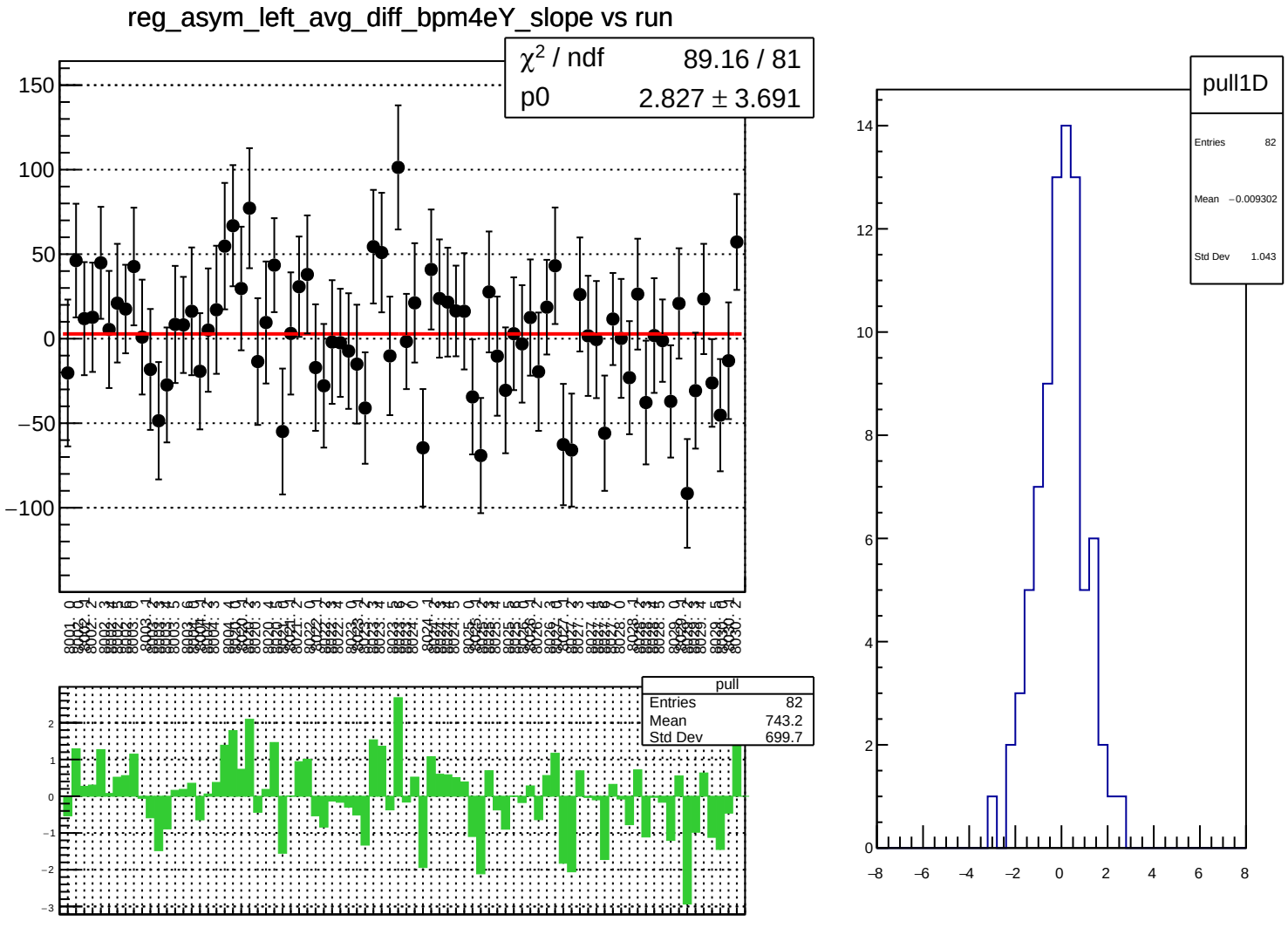

pull1D
Entries 82
Mean 0.03994
Std Dev 0.9456

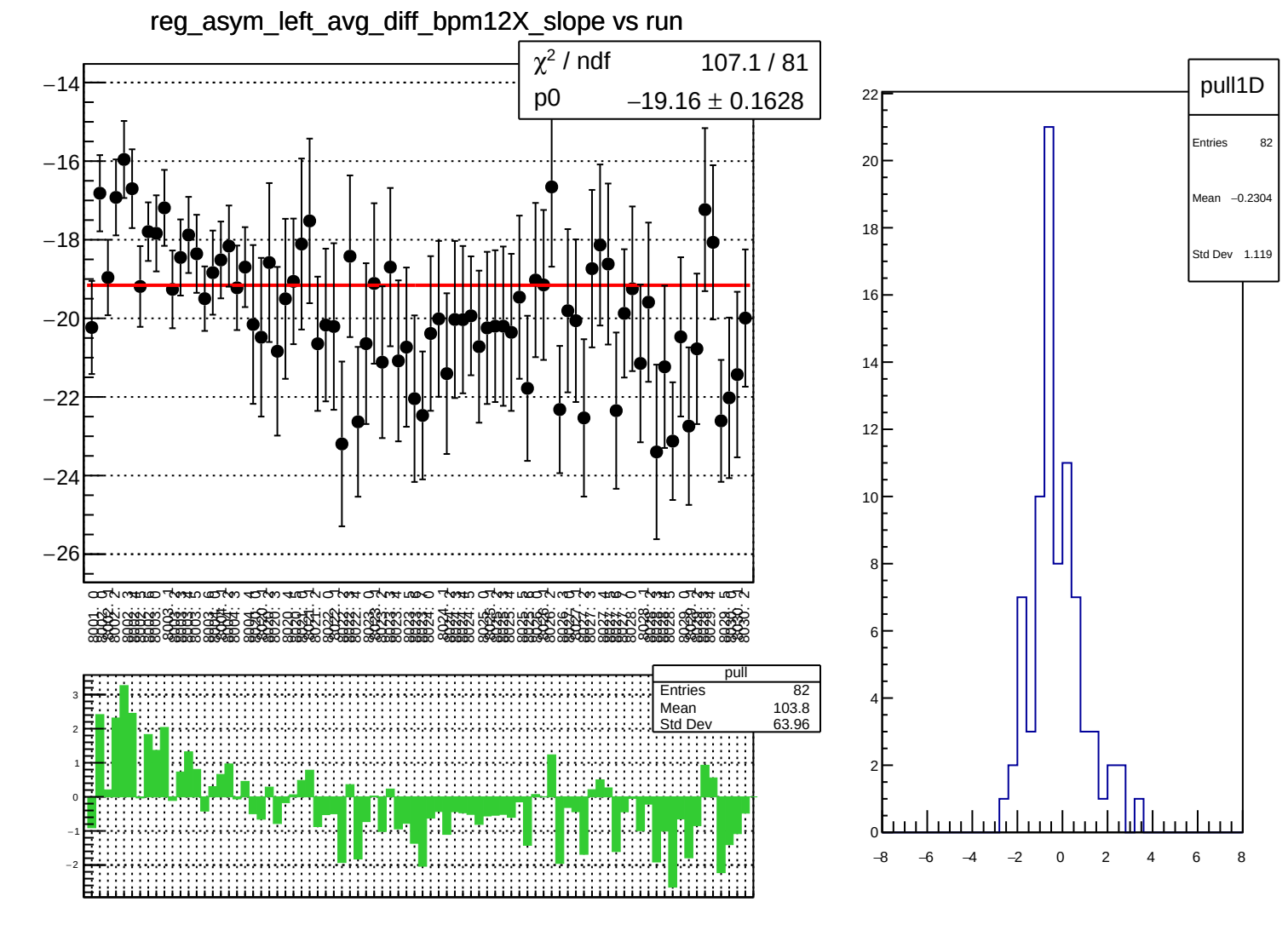

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 87.15 / 81
p0 6.997 ± 3.43
pull
Entries 82
Mean 544
Std Dev 501

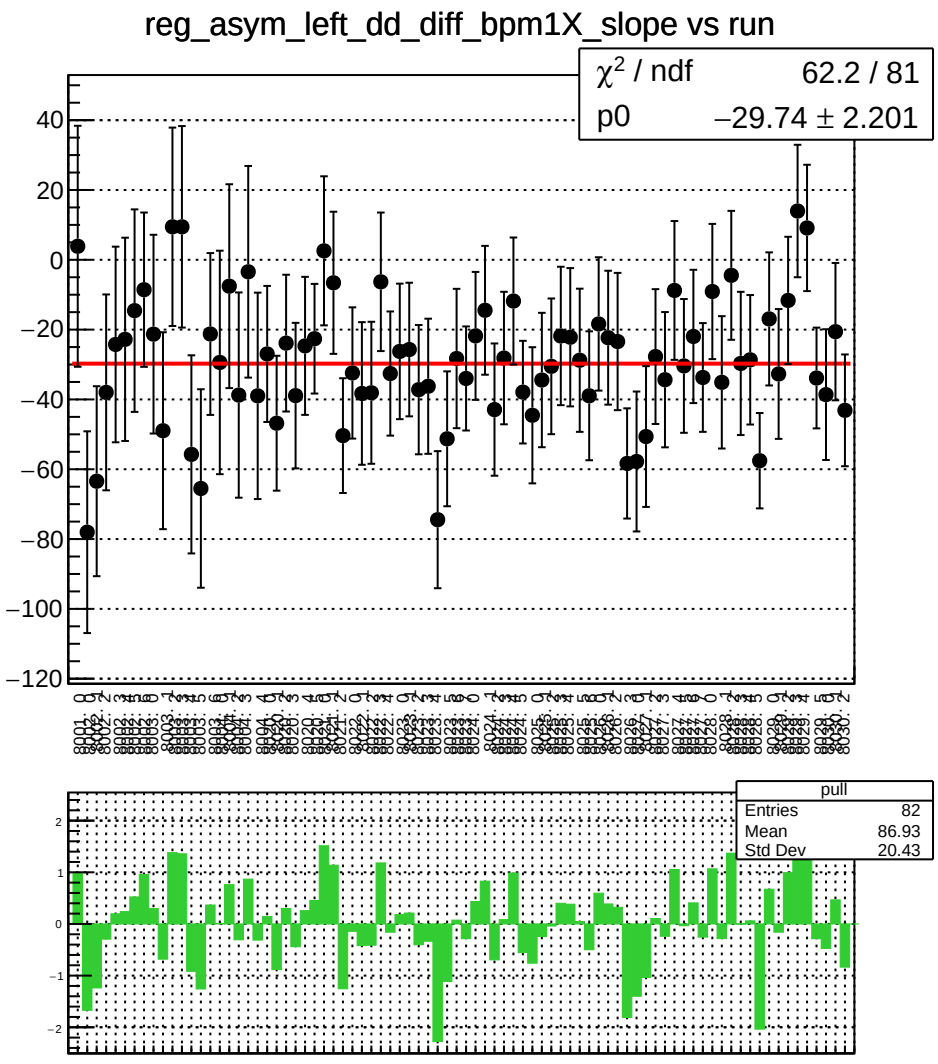

pull1D
Entries 82
Mean 0.01302
Std Dev 1.031

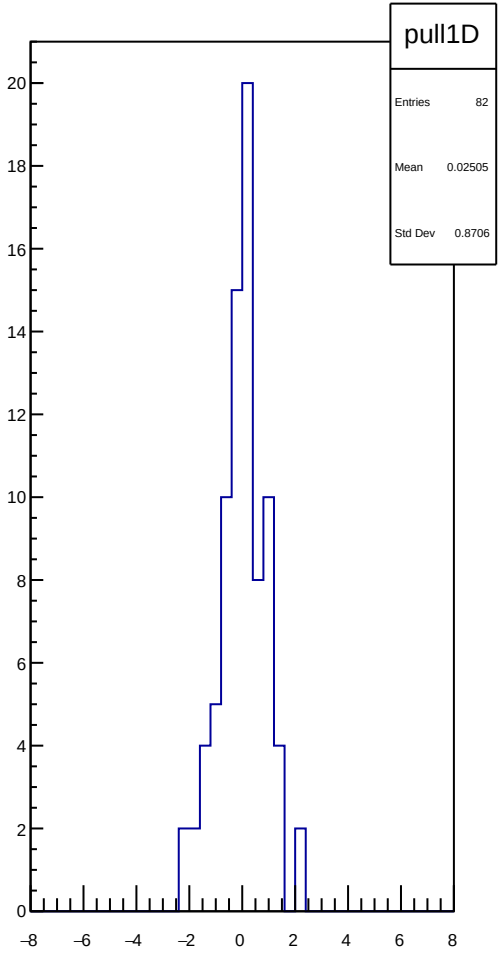

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 68.96 / 81
p0 −0.7516 ± 2.289
pull
Entries 82
Mean −553
Std Dev 587.4

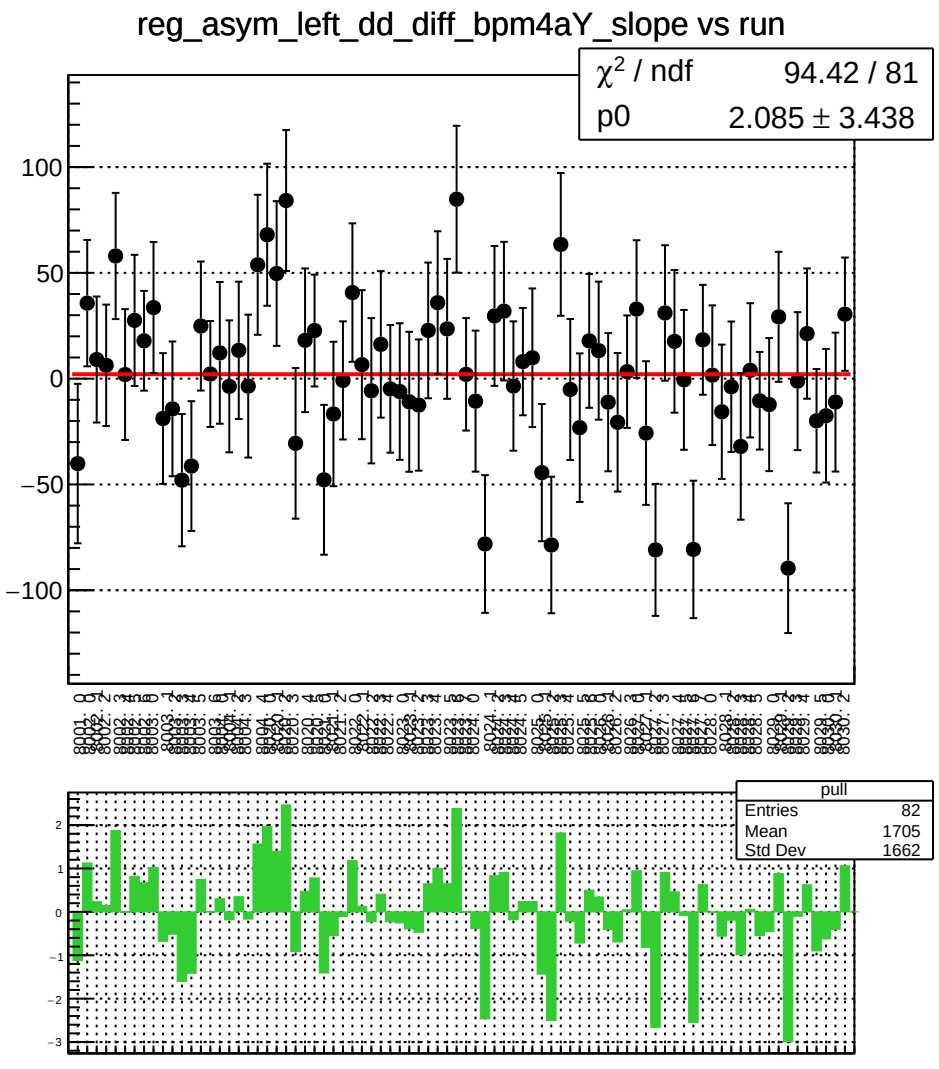

pull1D
Entries 82
Mean −0.01211
Std Dev 0.917

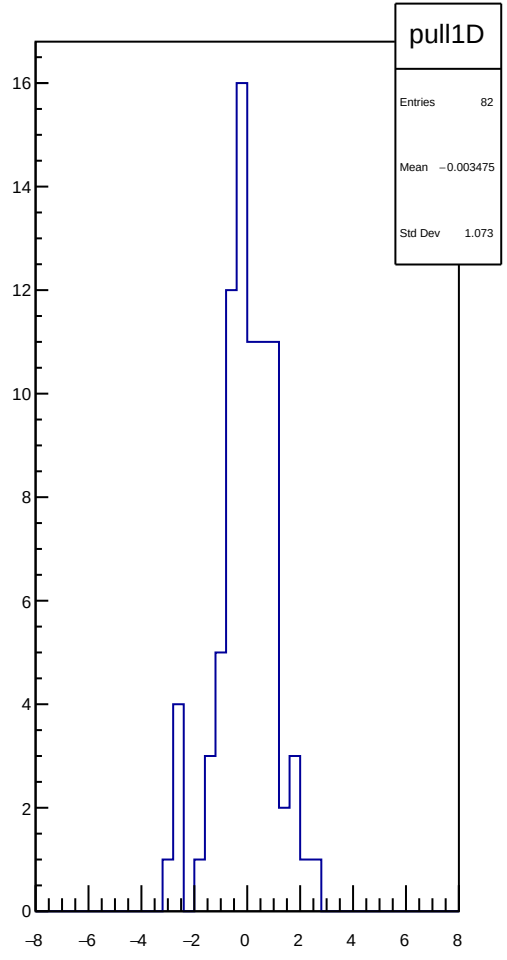

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 89.16 / 81
p0 2.827 ± 3.691
150
100
50
0
−50
−100
pull
Entries 82
Mean 743.2
Std Dev 699.7
2
1
0
−1
−2
−3
pull1D
Entries 82
Mean −0.009302
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

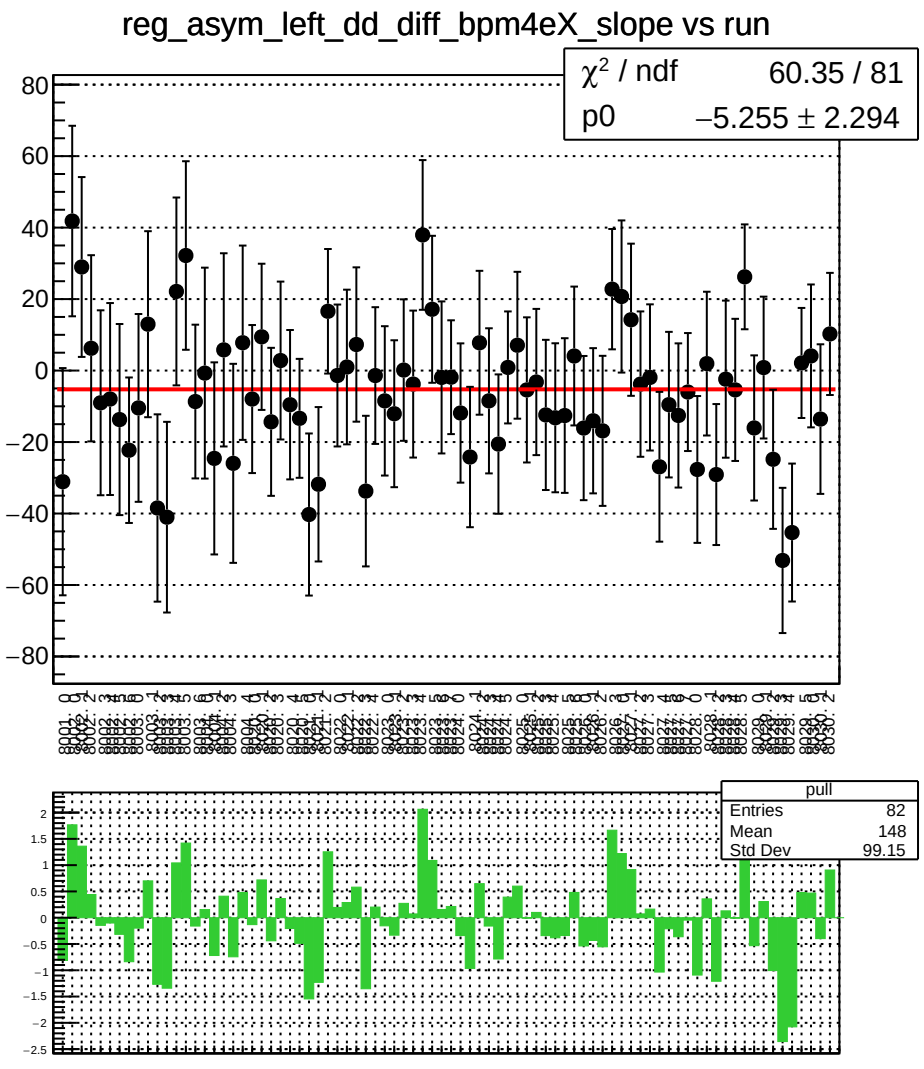

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 107.1 / 81
p0 −19.16 ± 0.1628
pull
Entries 82
Mean 103.8
Std Dev 63.96
pull1D
Entries 82
Mean −0.2304
Std Dev 1.119

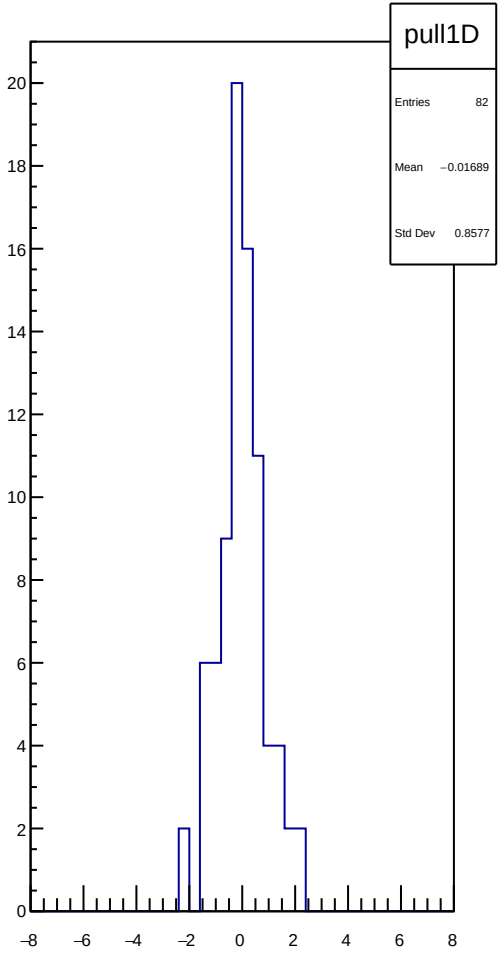

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 62.2 / 81
p0 −29.74 ± 2.201
pull
Entries 82
Mean 86.93
Std Dev 20.43

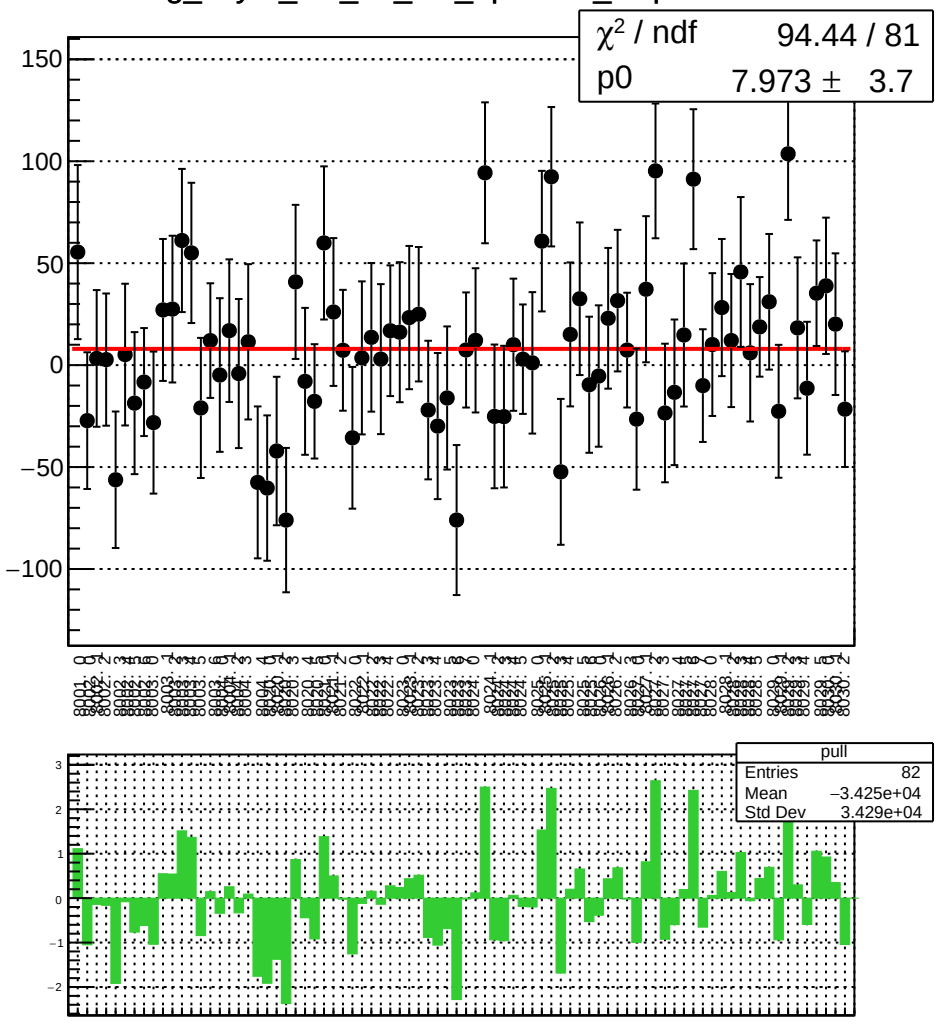

pull1D
Entries 82
Mean 0.02505
Std Dev 0.8706

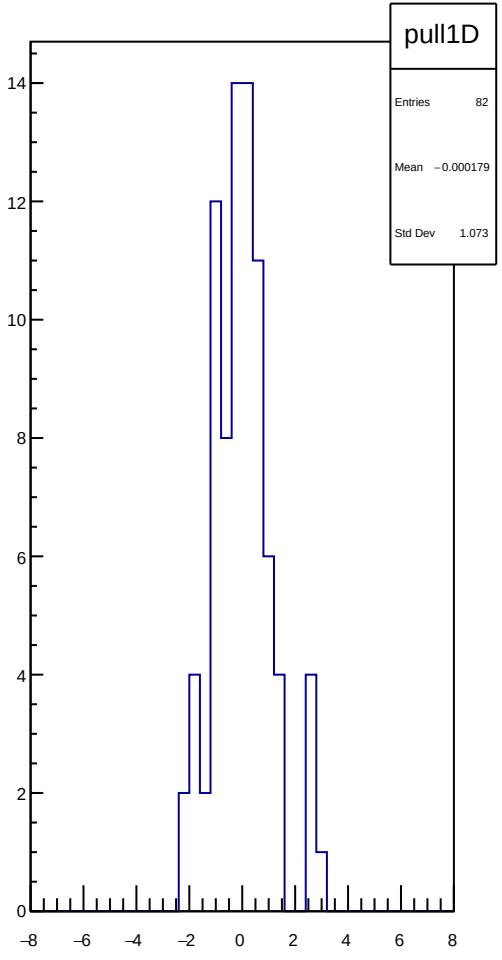

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 94.42 / 81
p0 2.085 ± 3.438
100
50
0
−50
−100
pull
Entries 82
Mean 1705
Std Dev 1662
2
1
0
−1
−2
−3

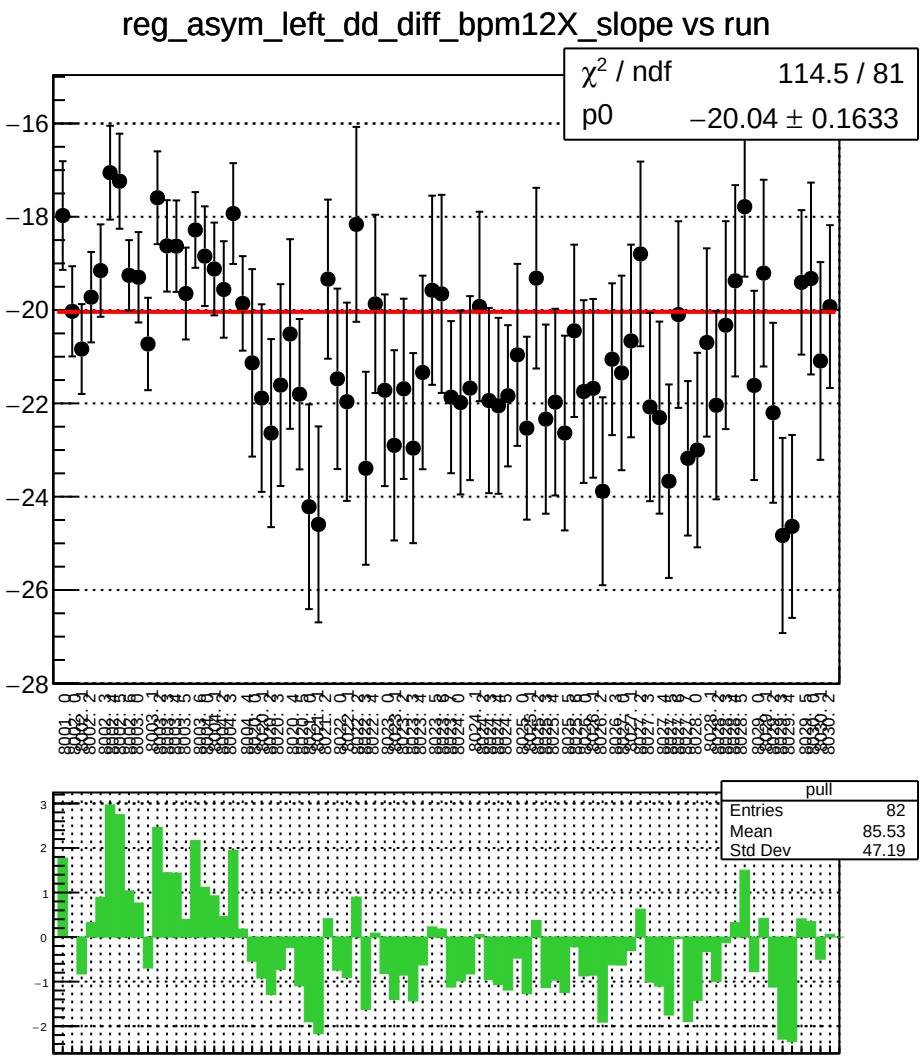

pull1D
Entries 82
Mean −0.003475
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

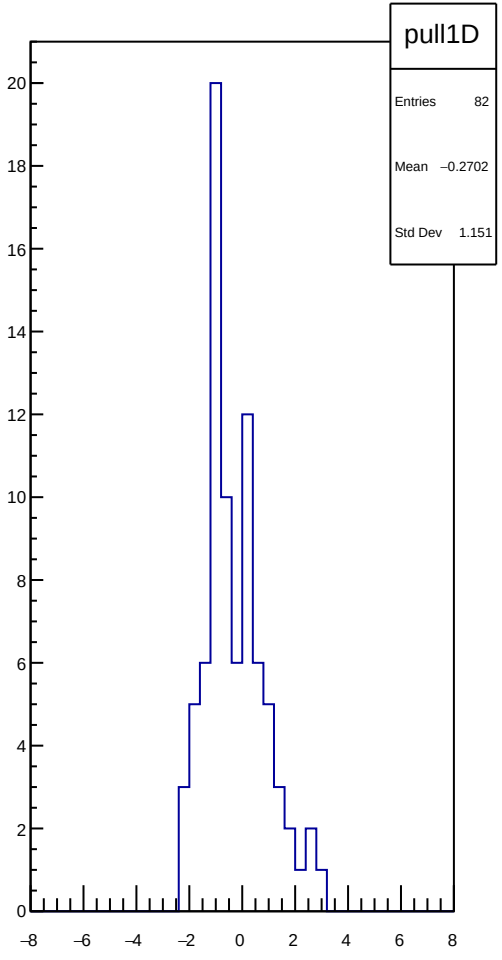

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.35 / 81
p0 −5.255 ± 2.294
pull
Entries 82
Mean 148
Std Dev 99.15

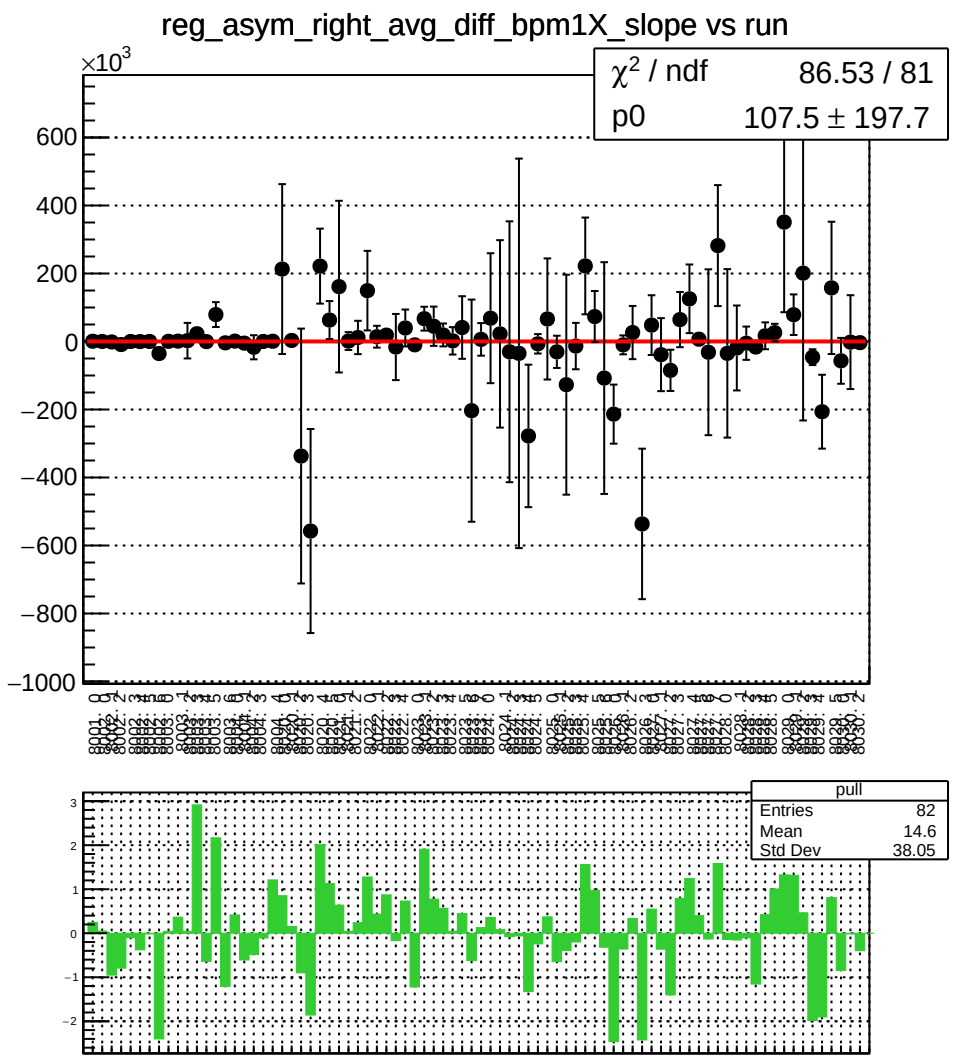

pull1D
Entries 82
Mean −0.01689
Std Dev 0.8577

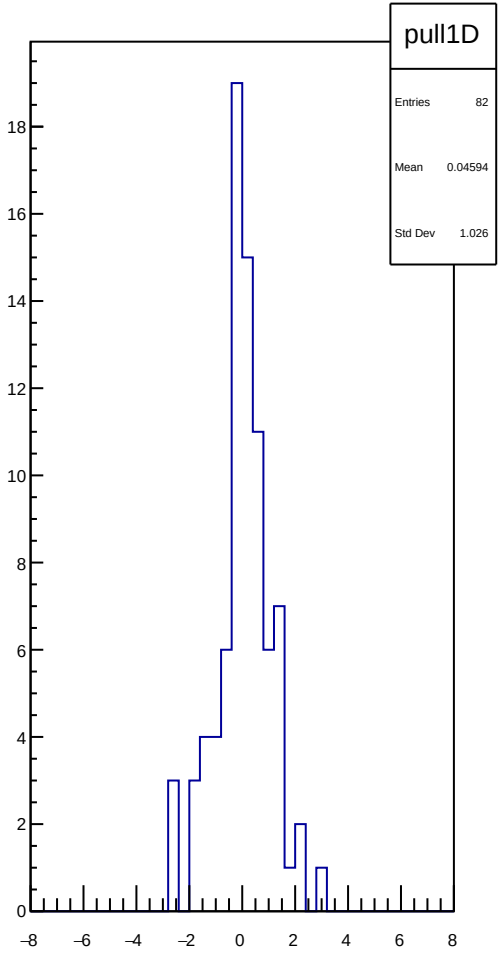

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 94.44 / 81
p0 7.973 ± 3.7
150
100
50
0
−50
−100
pull
Entries 82
Mean −3.425e+04
Std Dev 3.429e+04
3
2
1
0
−1
−2

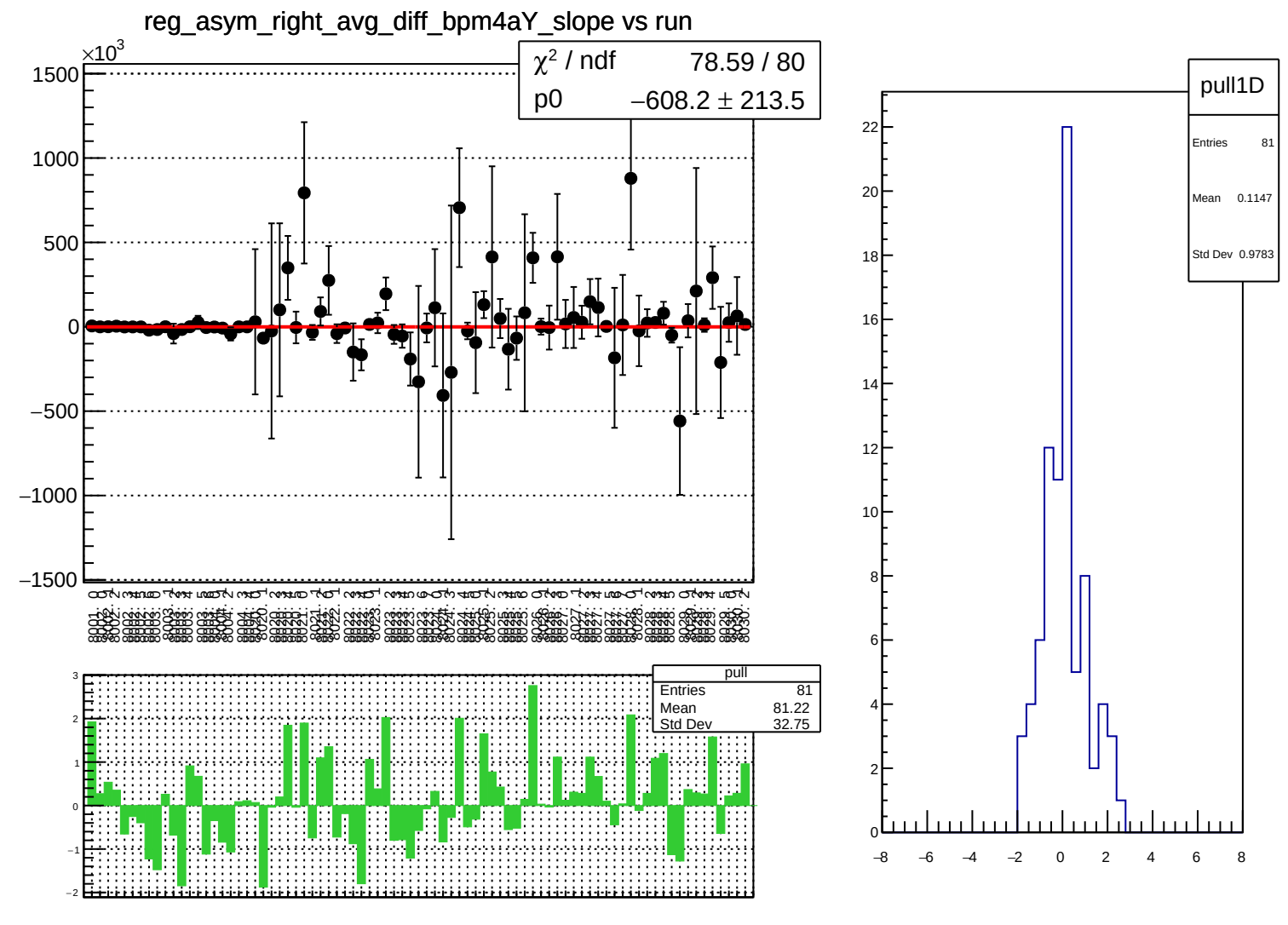

pull1D
Entries 82
Mean −0.000179
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

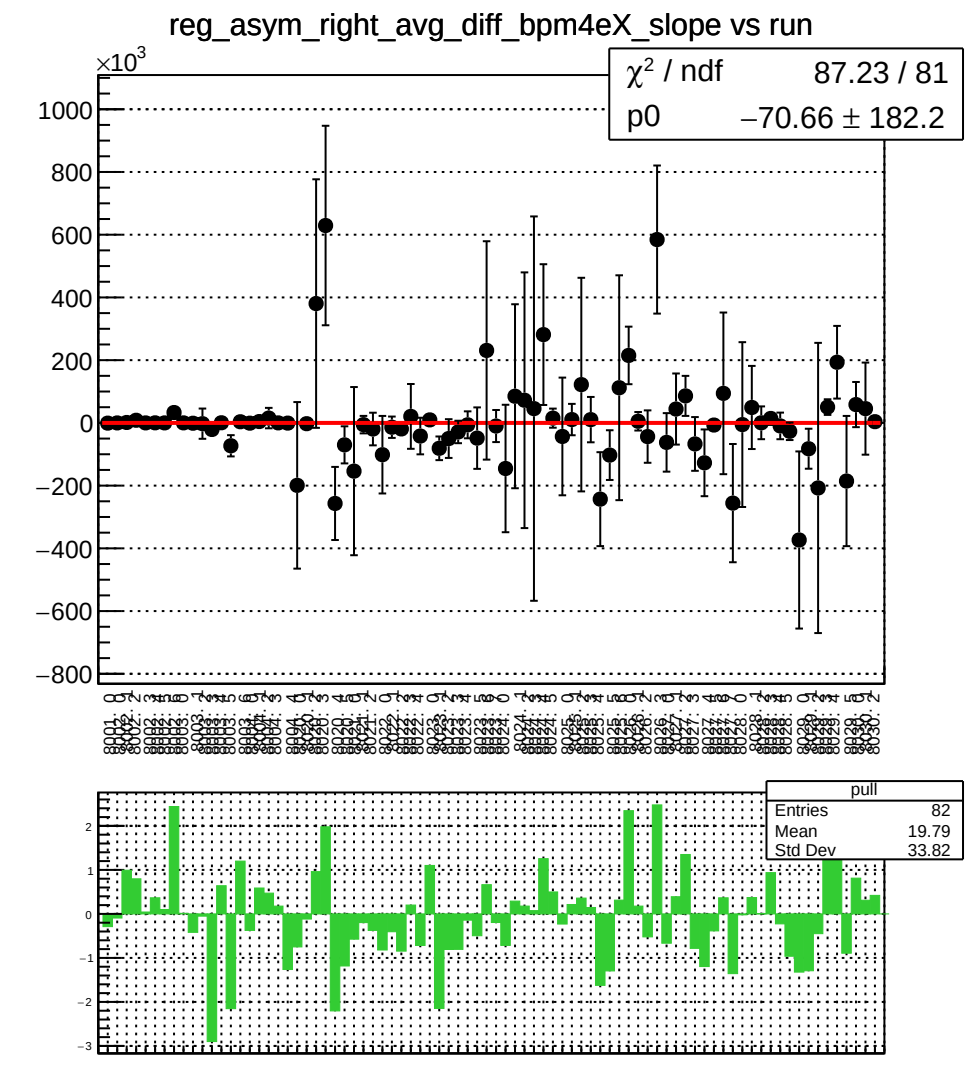

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 114.5 / 81
p0 −20.04 ± 0.1633
pull
Entries 82
Mean 85.53
Std Dev 47.19

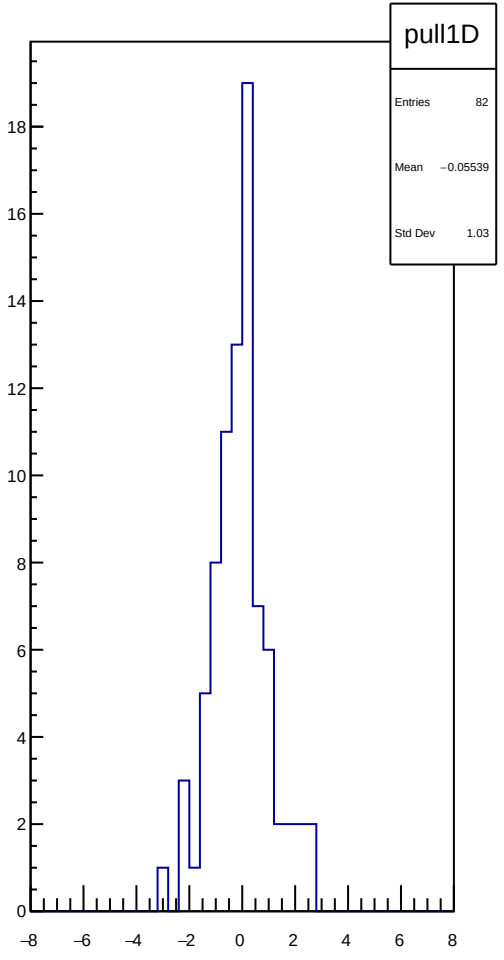

pull1D
Entries 82
Mean −0.2702
Std Dev 1.151

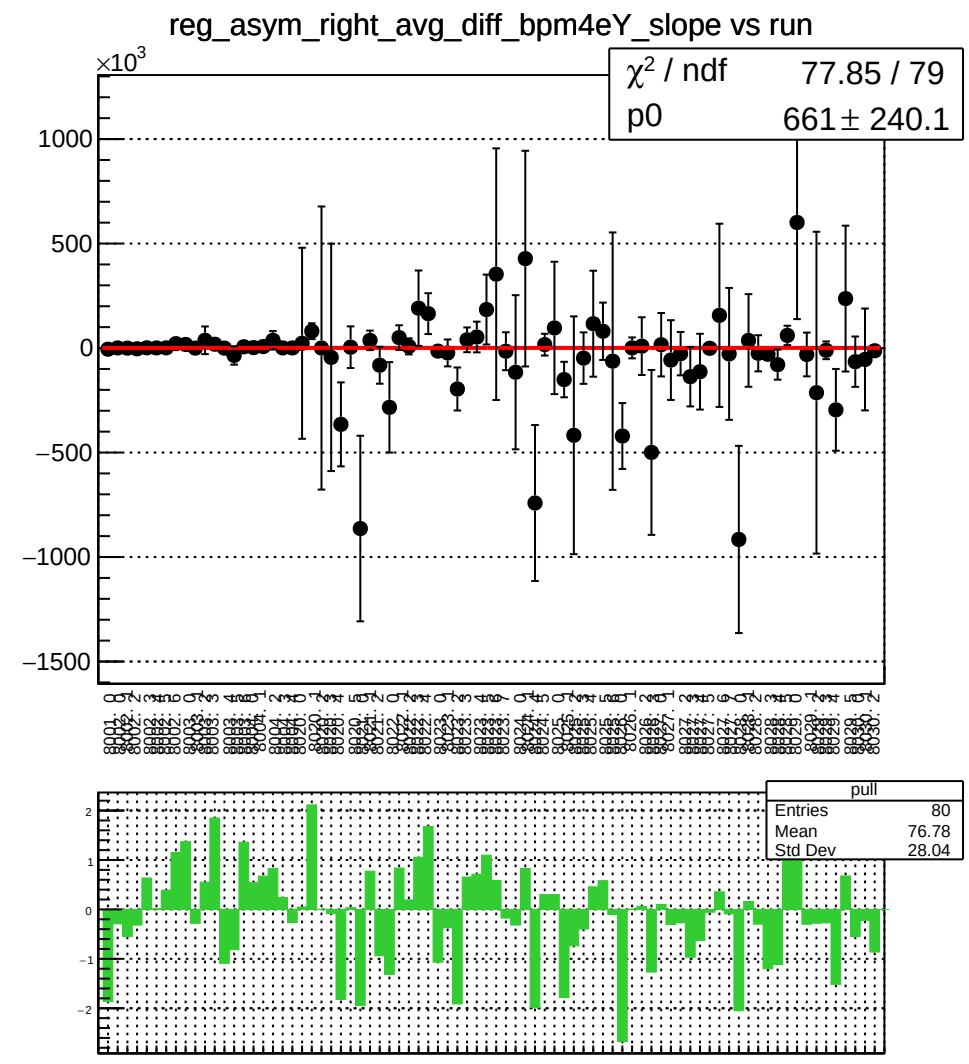

reg_asym_right_avg_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 86.53 / 81
p0 107.5 ± 197.7
pull
Entries 82
Mean 14.6
Std Dev 38.05

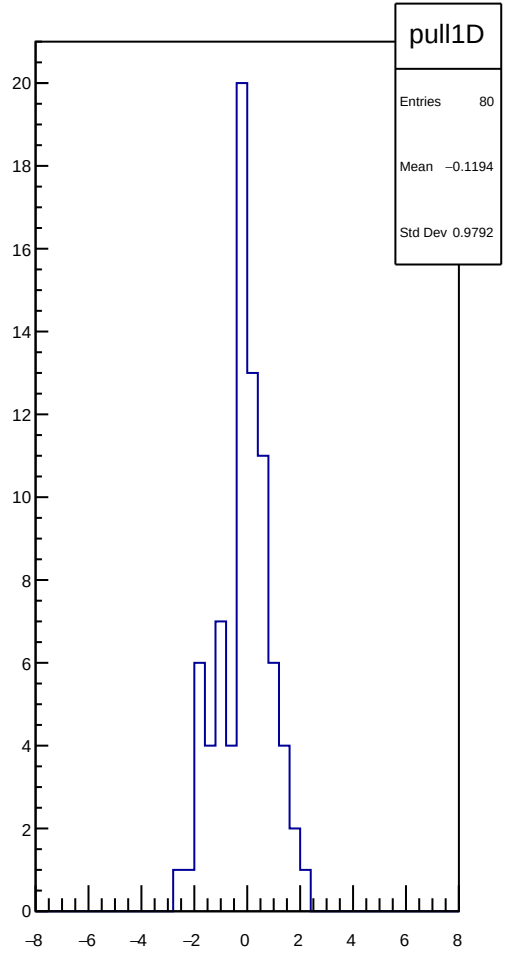

pull1D
Entries 82
Mean 0.04594
Std Dev 1.026

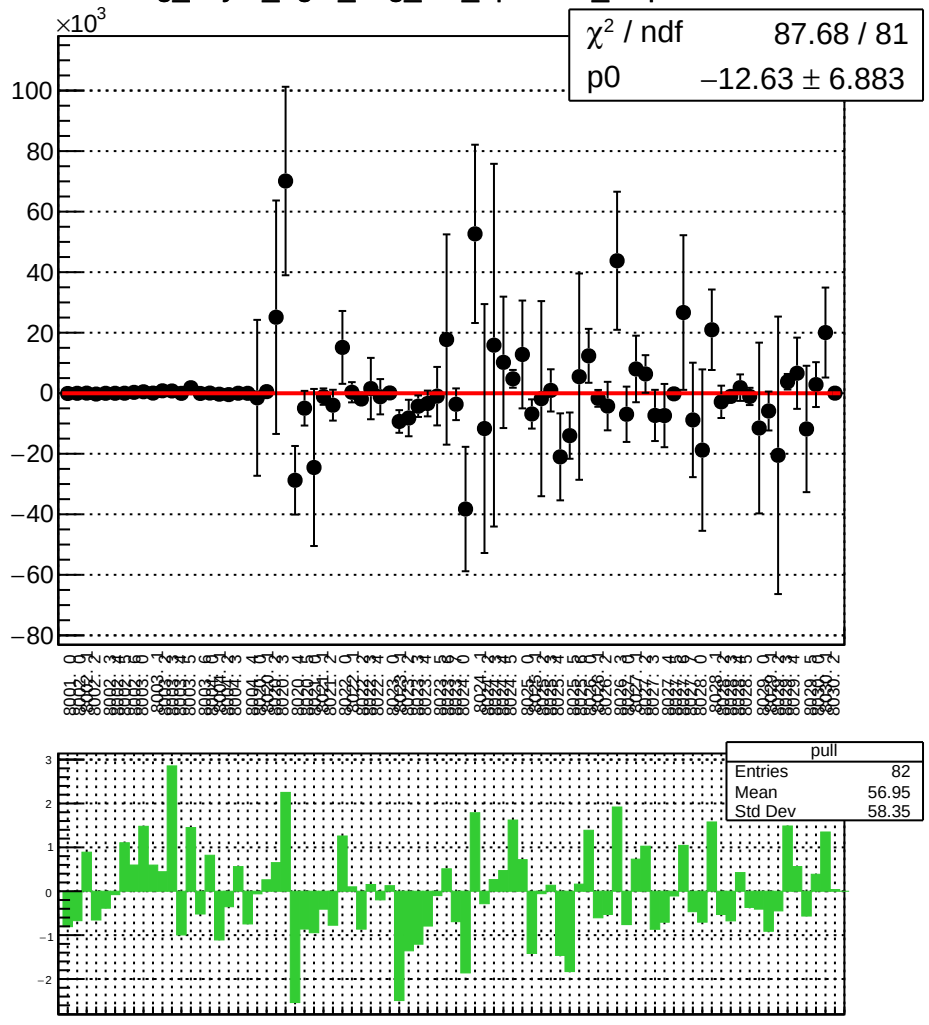

reg_asym_right_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 78.59 / 80
p0 −608.2 ± 213.5
pull
Entries 81
Mean 81.22
Std Dev 32.75
pull1D
Entries 81
Mean 0.1147
Std Dev 0.9783

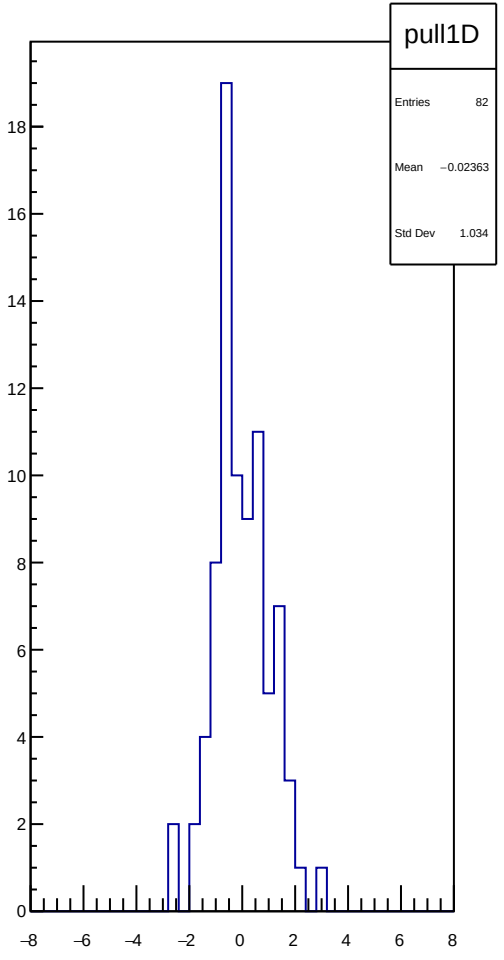

reg_asym_right_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 87.23 / 81
p0 −70.66 ± 182.2
pull
Entries 82
Mean 19.79
Std Dev 33.82

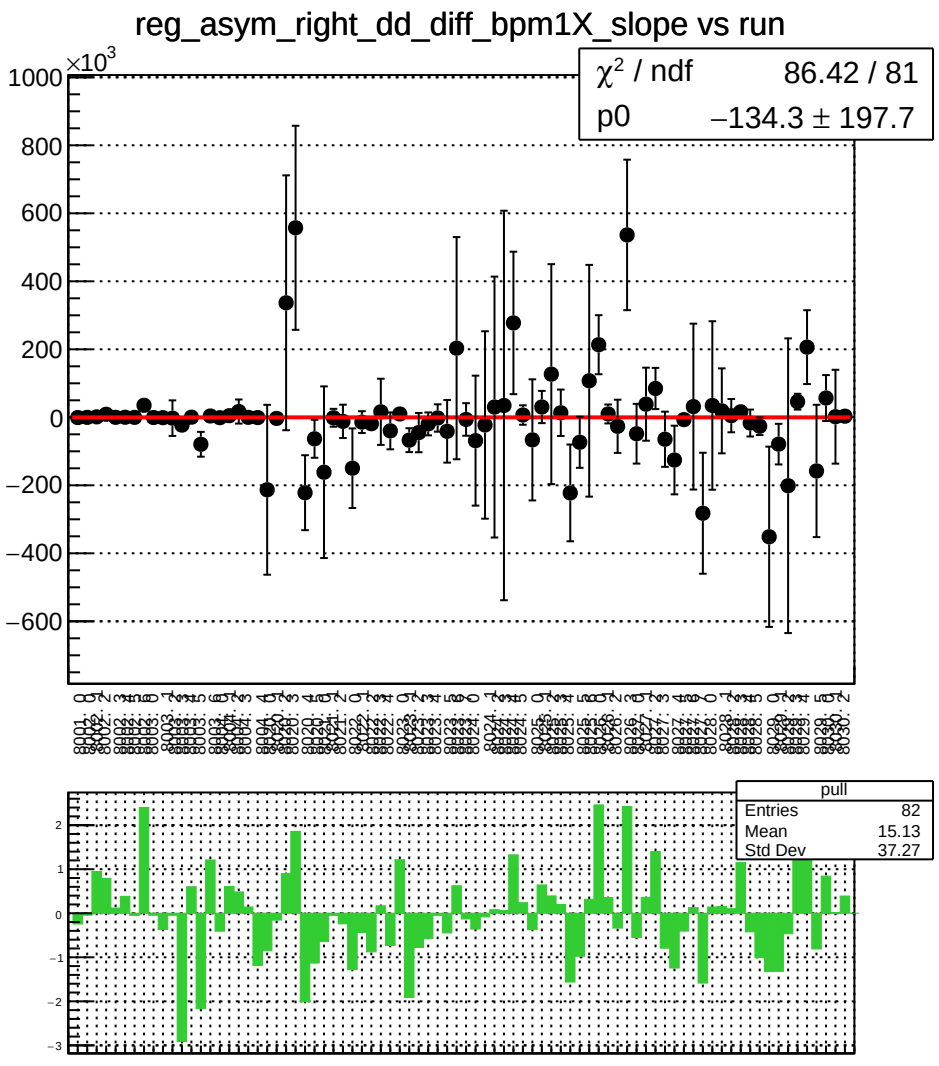

pull1D
Entries 82
Mean −0.05539
Std Dev 1.03

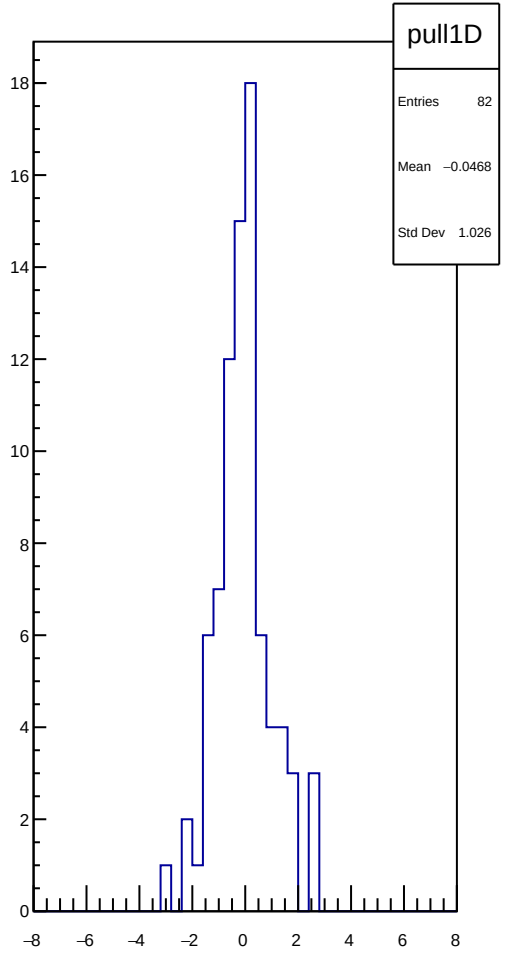

reg_asym_right_avg_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 77.85 / 79
p0 661 ± 240.1
1000
500
0
−500
−1000
−1500
pull
Entries 80
Mean 76.78
Std Dev 28.04
2
1
0
−1

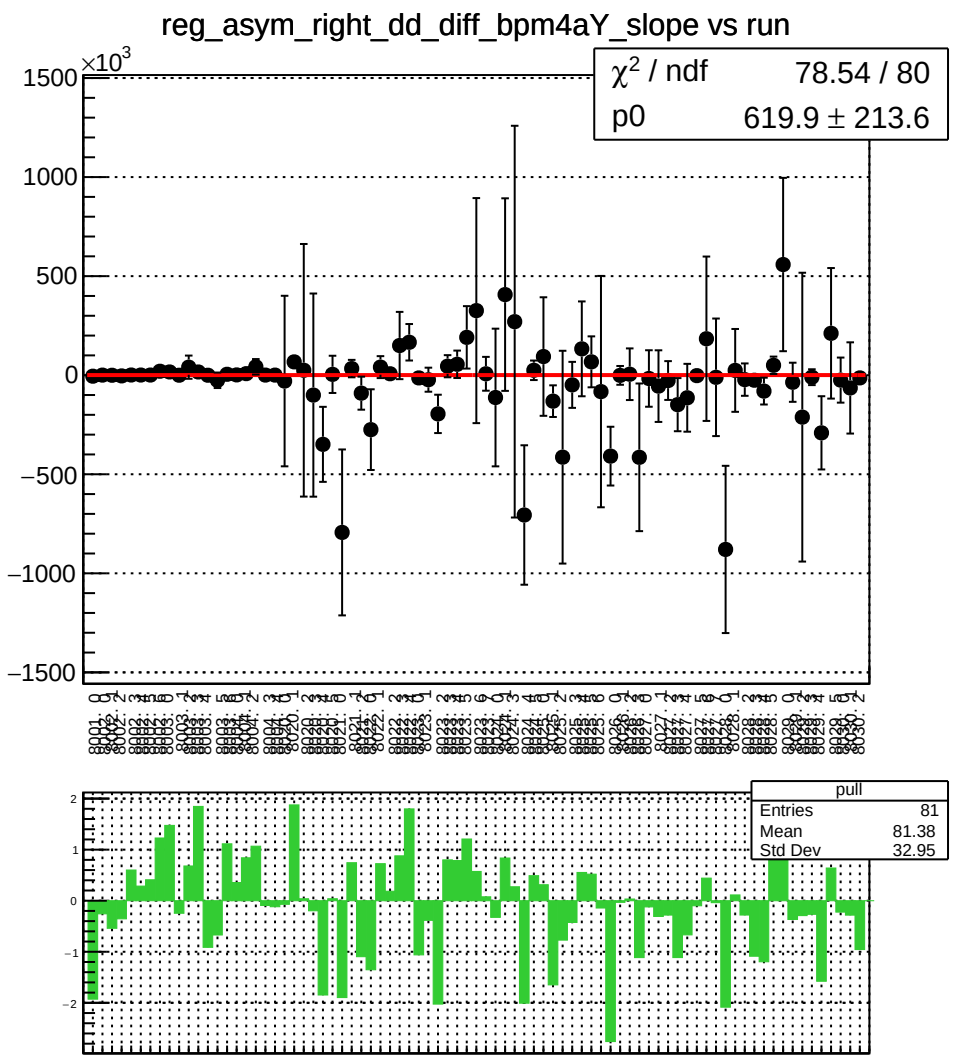

pull1D
Entries 80
Mean −0.1194
Std Dev 0.9792
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

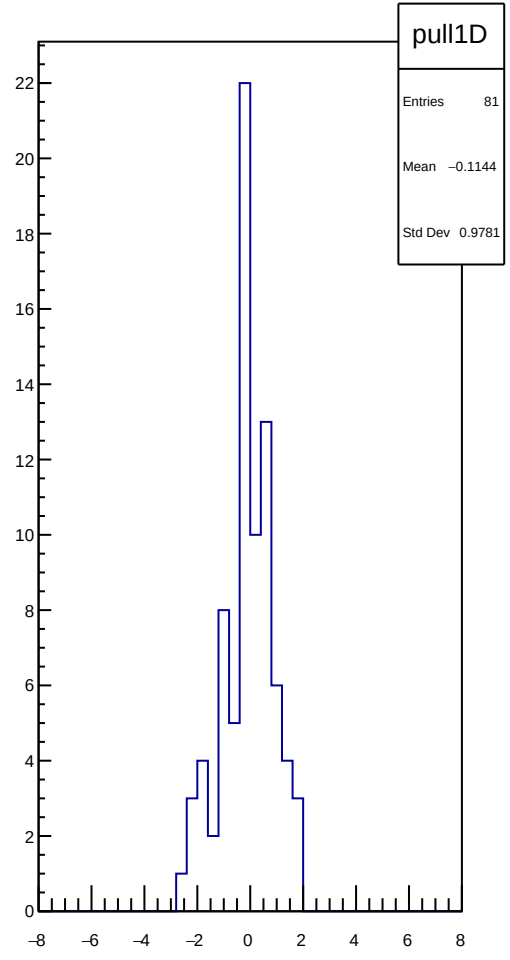

reg_asym_right_avg_diff_bpm12X_slope vs run
×10^3
χ² / ndf 87.68 / 81
p0 −12.63 ± 6.883
pull
Entries 82
Mean 56.95
Std Dev 58.35

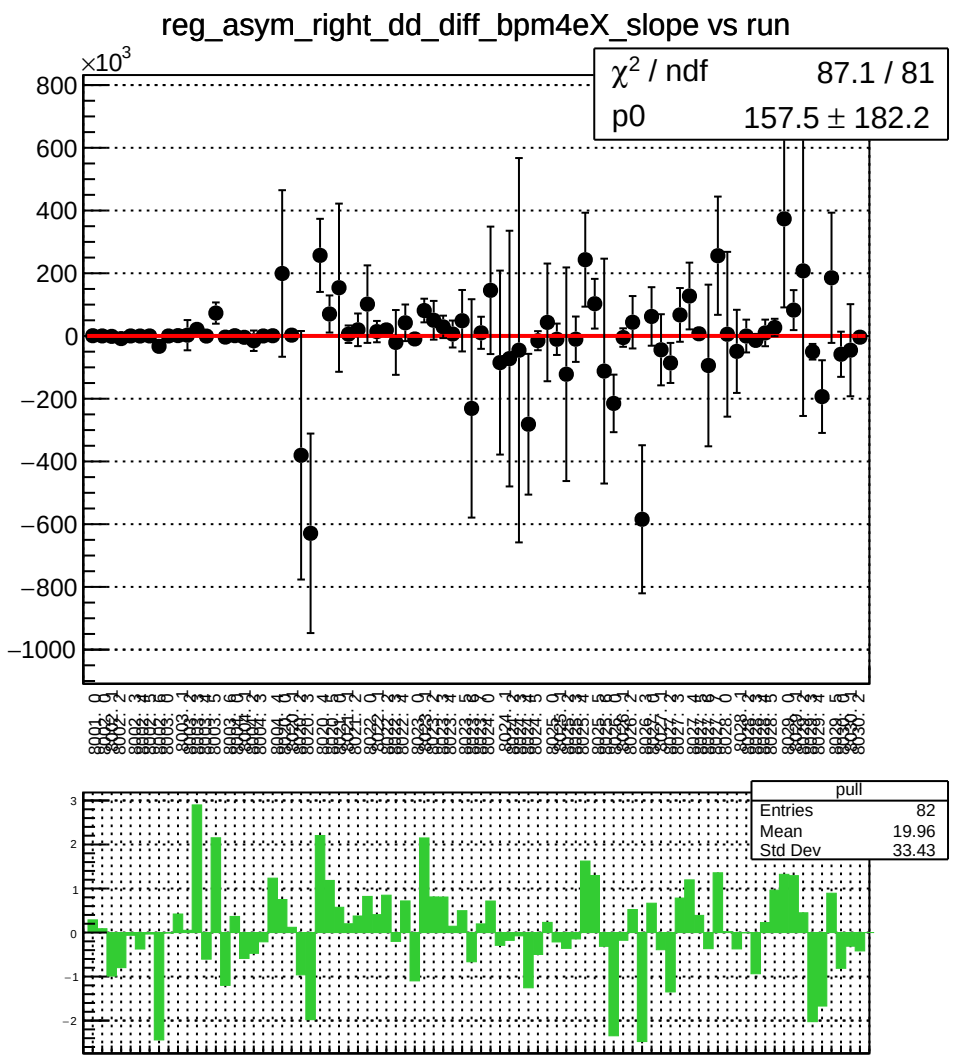

pull1D
Entries 82
Mean −0.02363
Std Dev 1.034

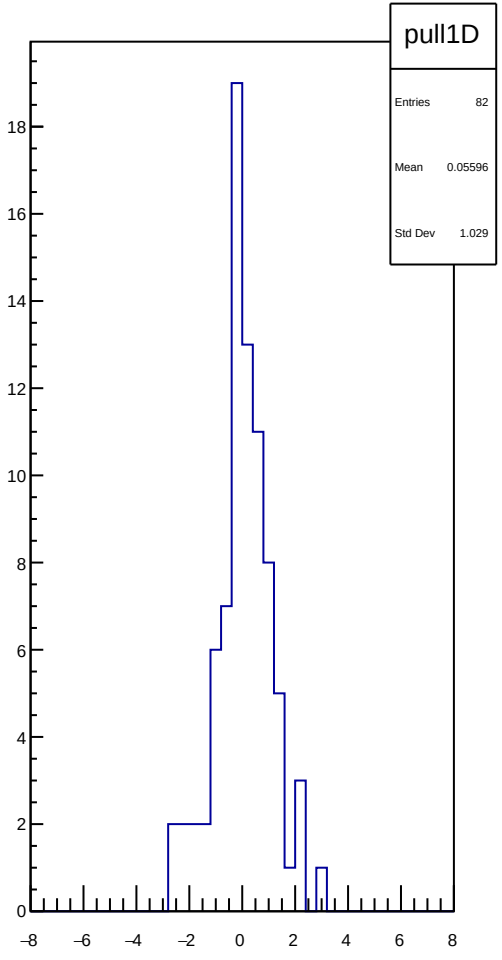

reg_asym_right_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 86.42 / 81
p0 −134.3 ± 197.7
pull
Entries 82
Mean 15.13
Std Dev 37.27

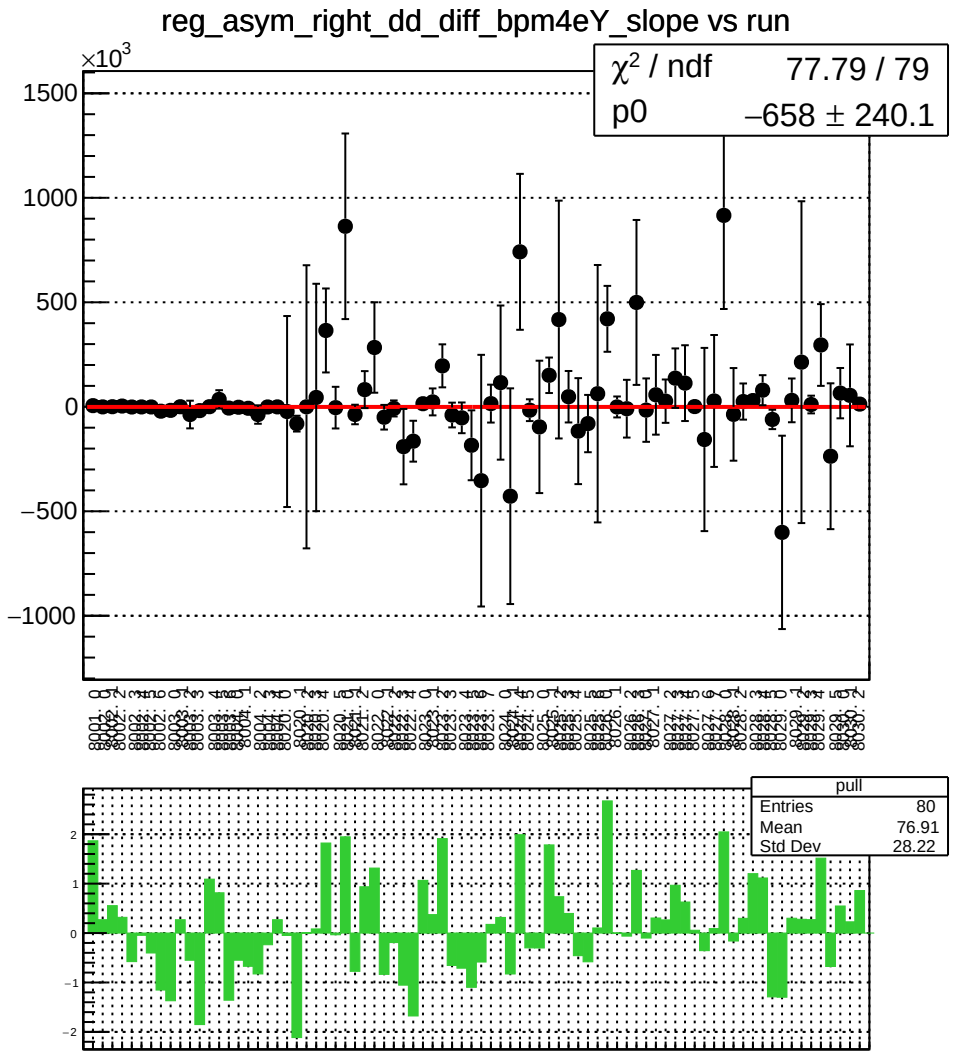

pull1D
Entries 82
Mean −0.0468
Std Dev 1.026

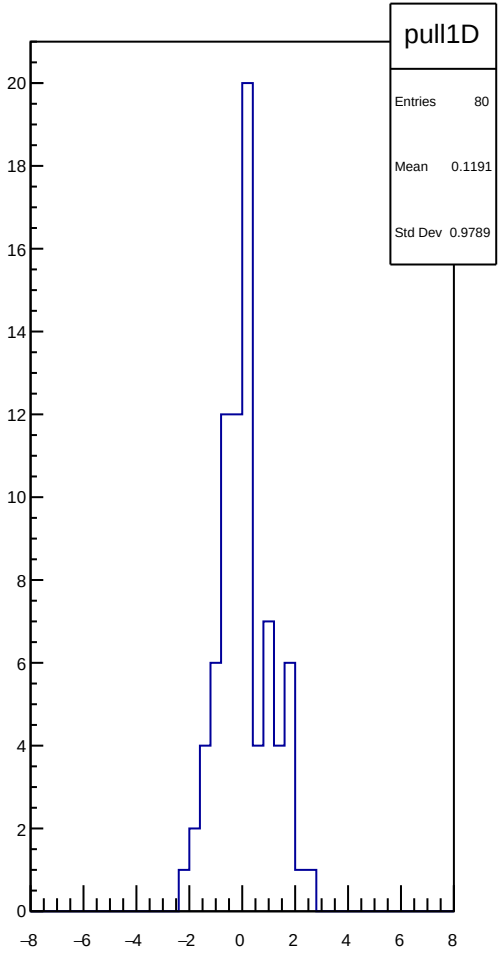

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.54 / 80
p0 619.9 ± 213.6
×10³
1500
1000
500
0
−500
−1000
−1500
pull
Entries 81
Mean 81.38
Std Dev 32.95
2
1
0
−1
−2

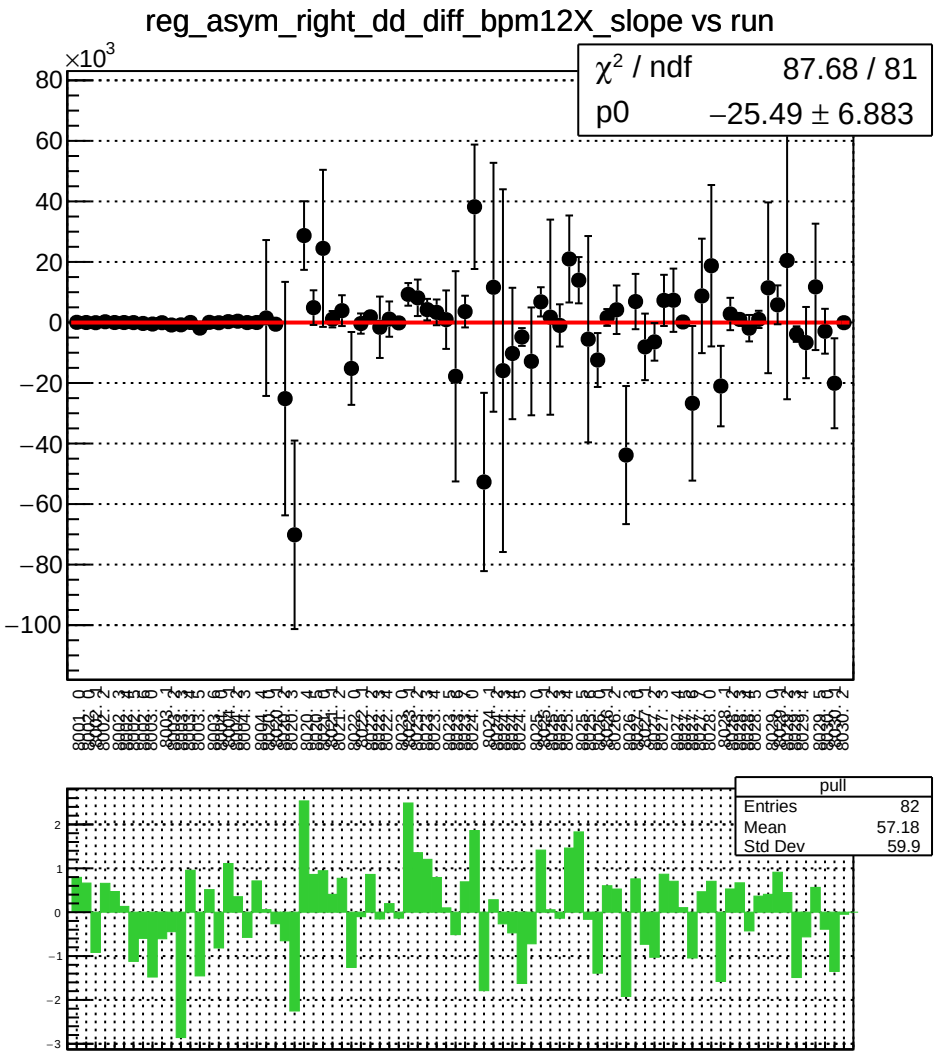

pull1D
Entries 81
Mean −0.1144
Std Dev 0.9781
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

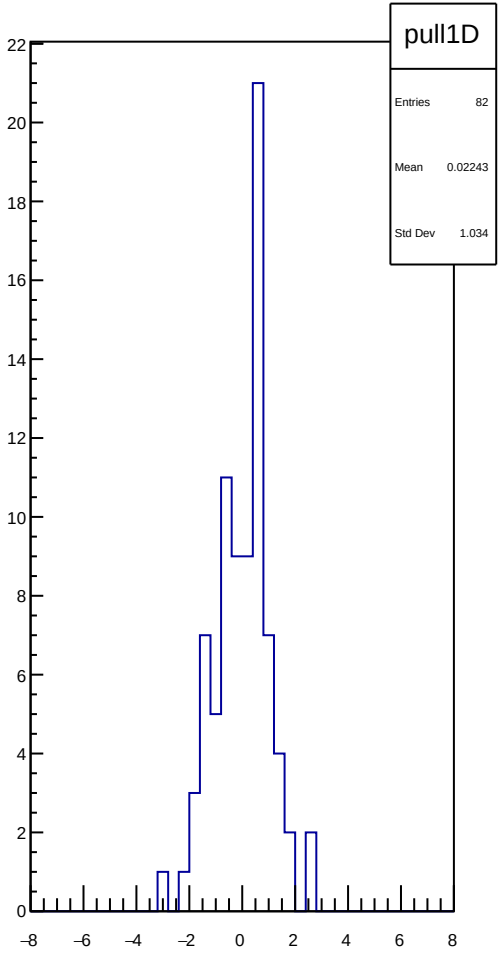

reg_asym_right_dd_diff_bpm4eX_slope vs run
×10^3
800
600
400
200
0
−200
−400
−600
−800
−1000
χ² / ndf 87.1 / 81
p0 157.5 ± 182.2
pull
Entries 82
Mean 19.96
Std Dev 33.43
3
2
1
0
−1
−2

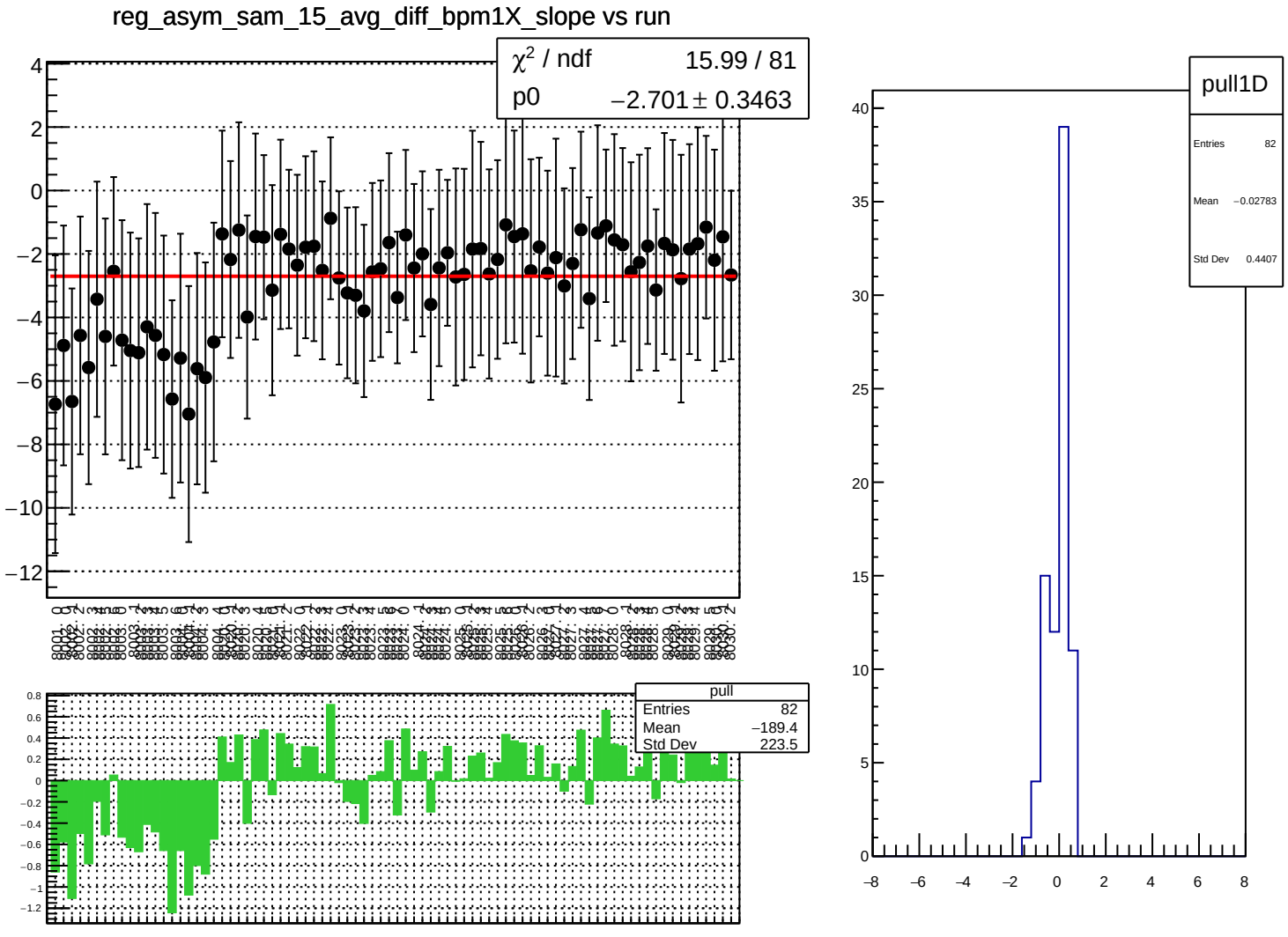

pull1D
Entries 82
Mean 0.05596
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

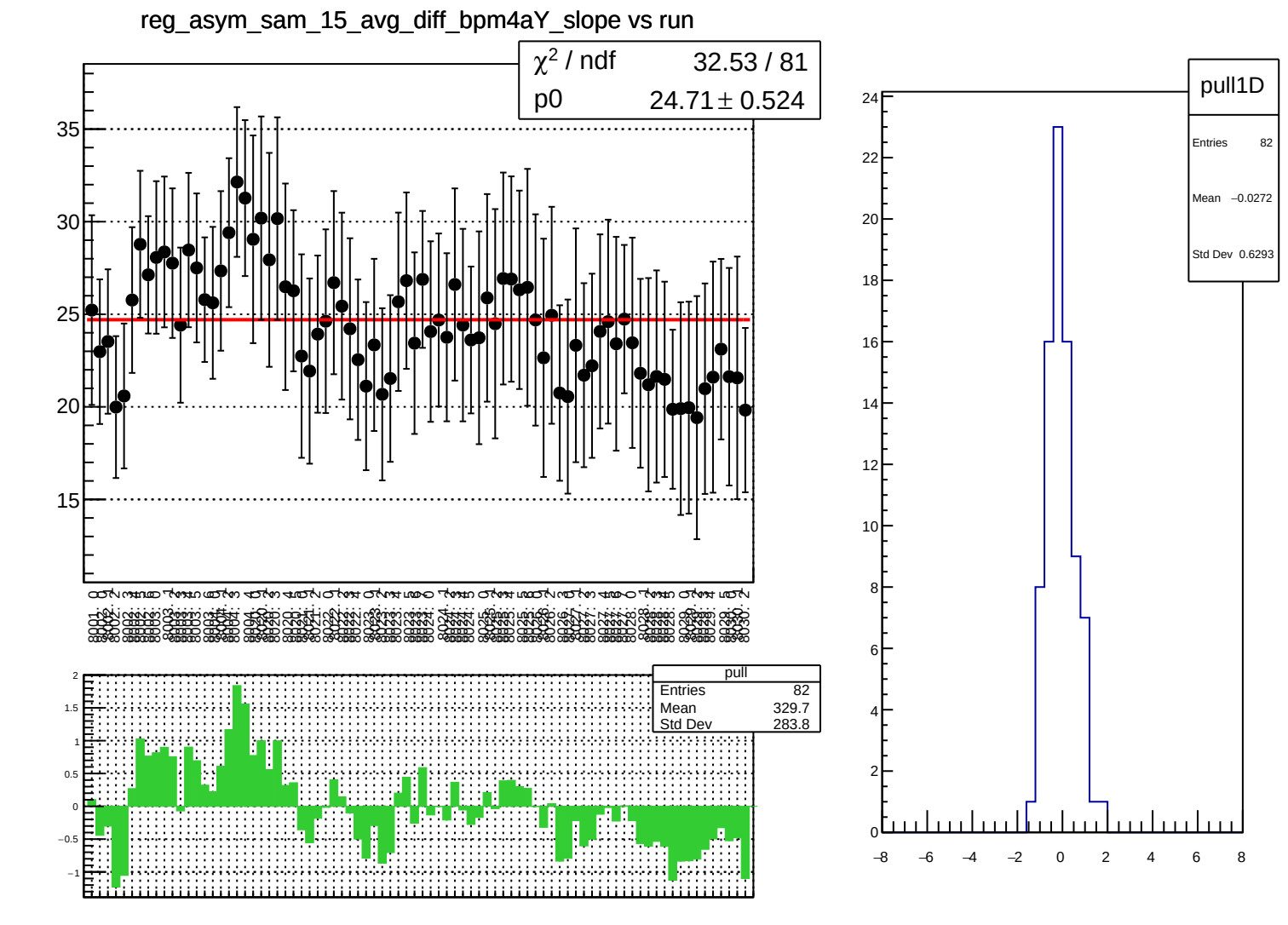

reg_asym_right_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 77.79 / 79
p0 −658 ± 240.1
1500
1000
500
0
−500
−1000
pull
Entries 80
Mean 76.91
Std Dev 28.22
2
1
0
−1
−2

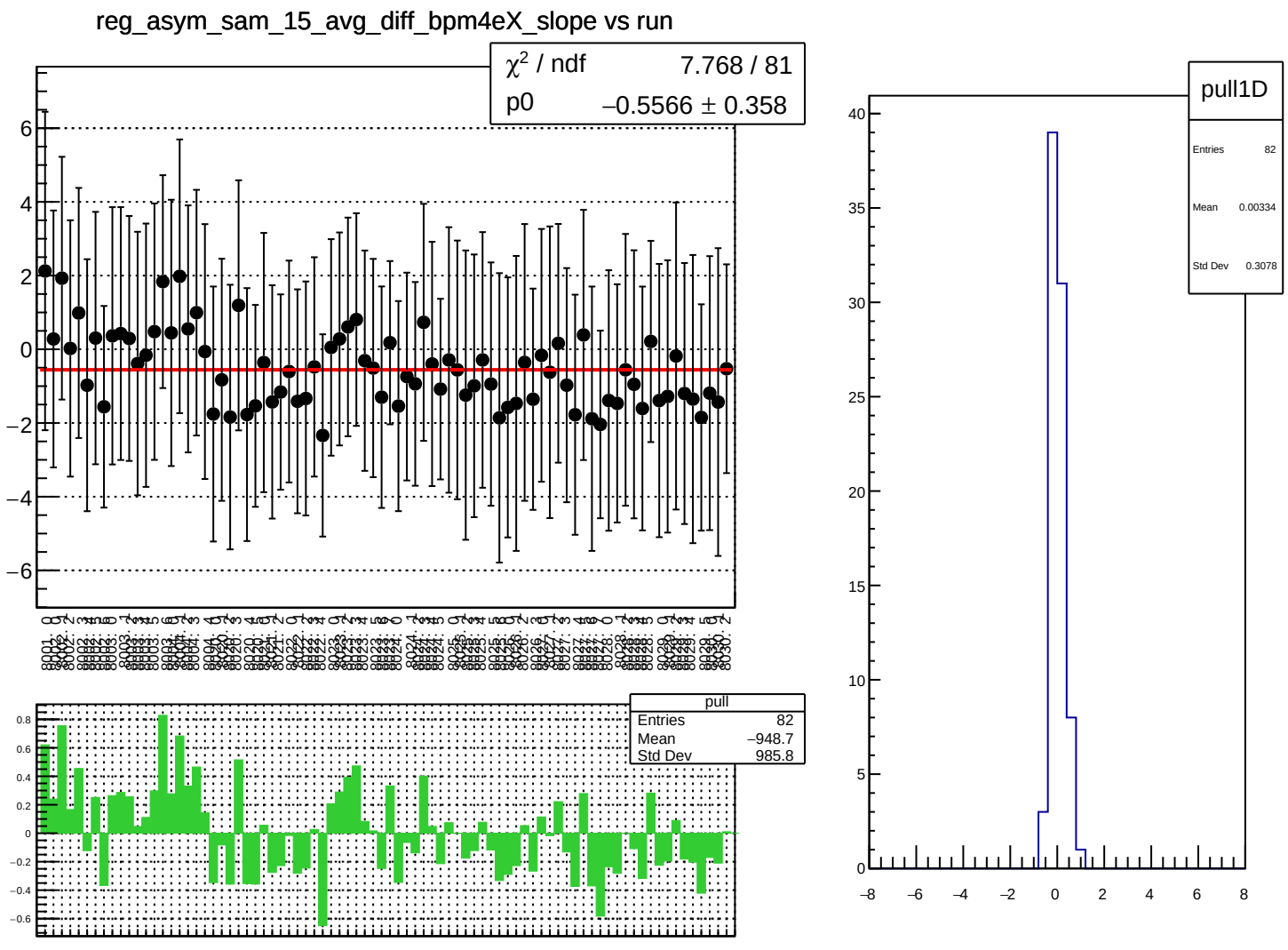

pull1D
Entries 80
Mean 0.1191
Std Dev 0.9789
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

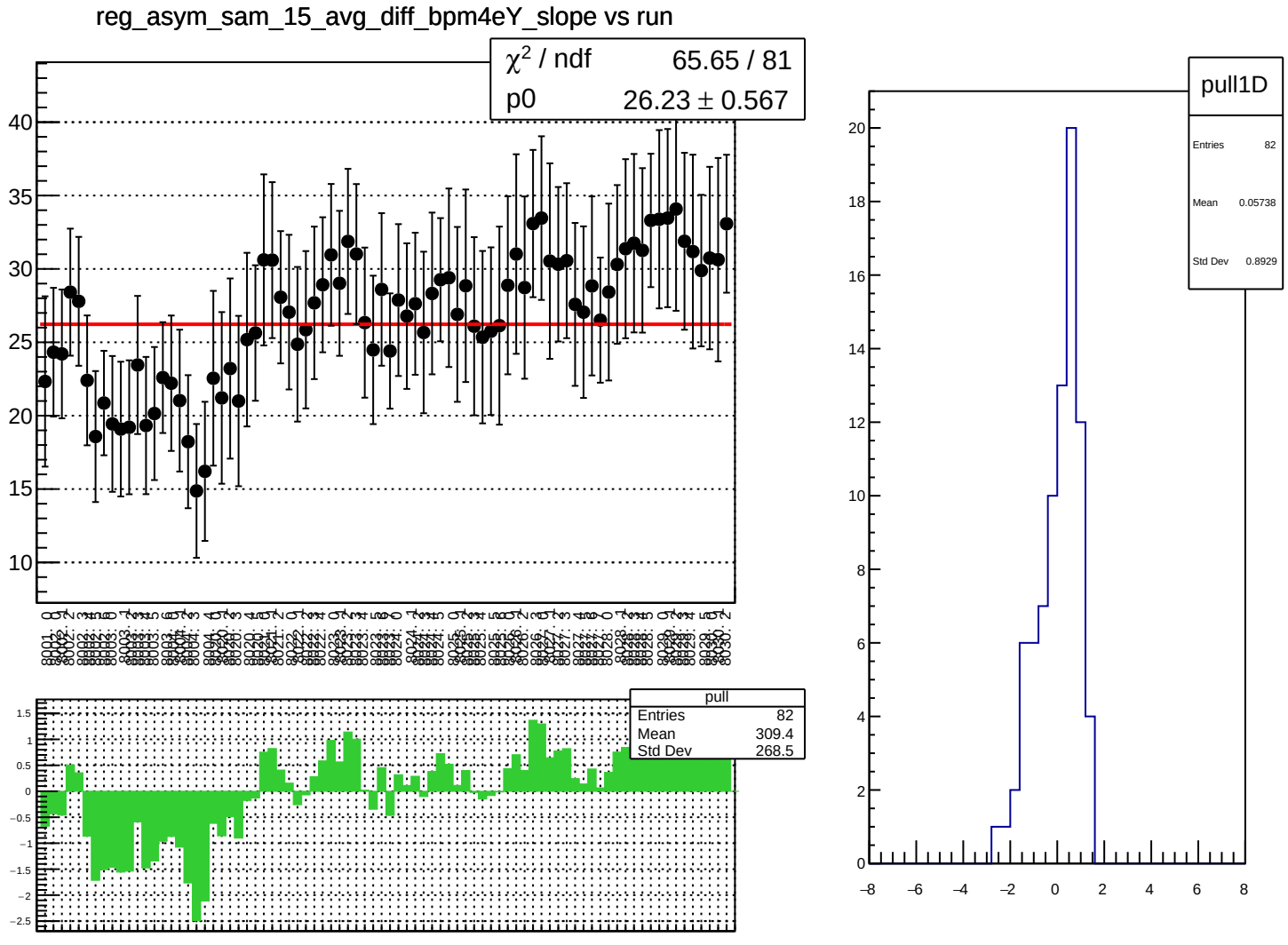

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 87.68 / 81
p0 −25.49 ± 6.883
pull
Entries 82
Mean 57.18
Std Dev 59.9

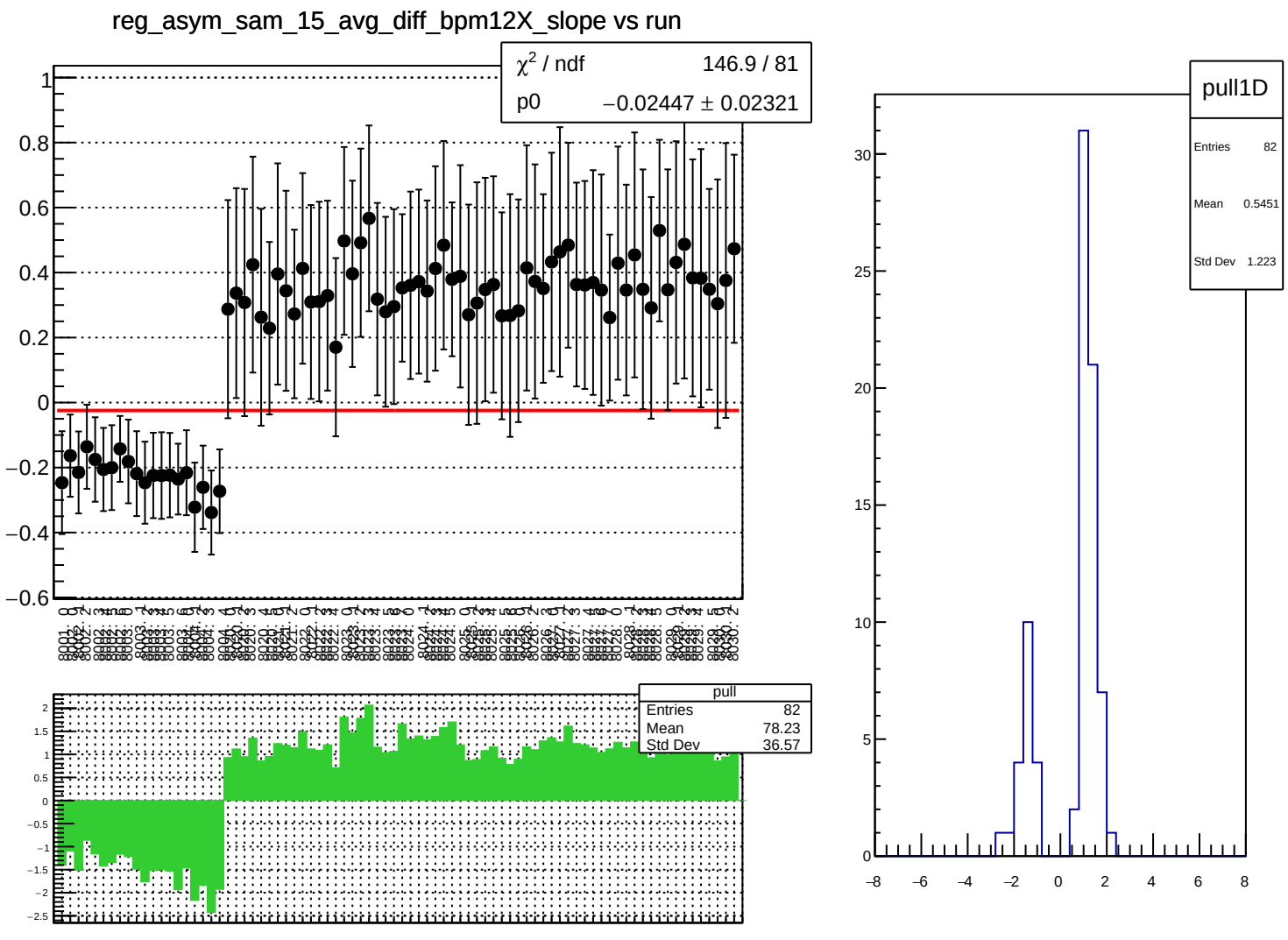

pull1D
Entries 82
Mean 0.02243
Std Dev 1.034

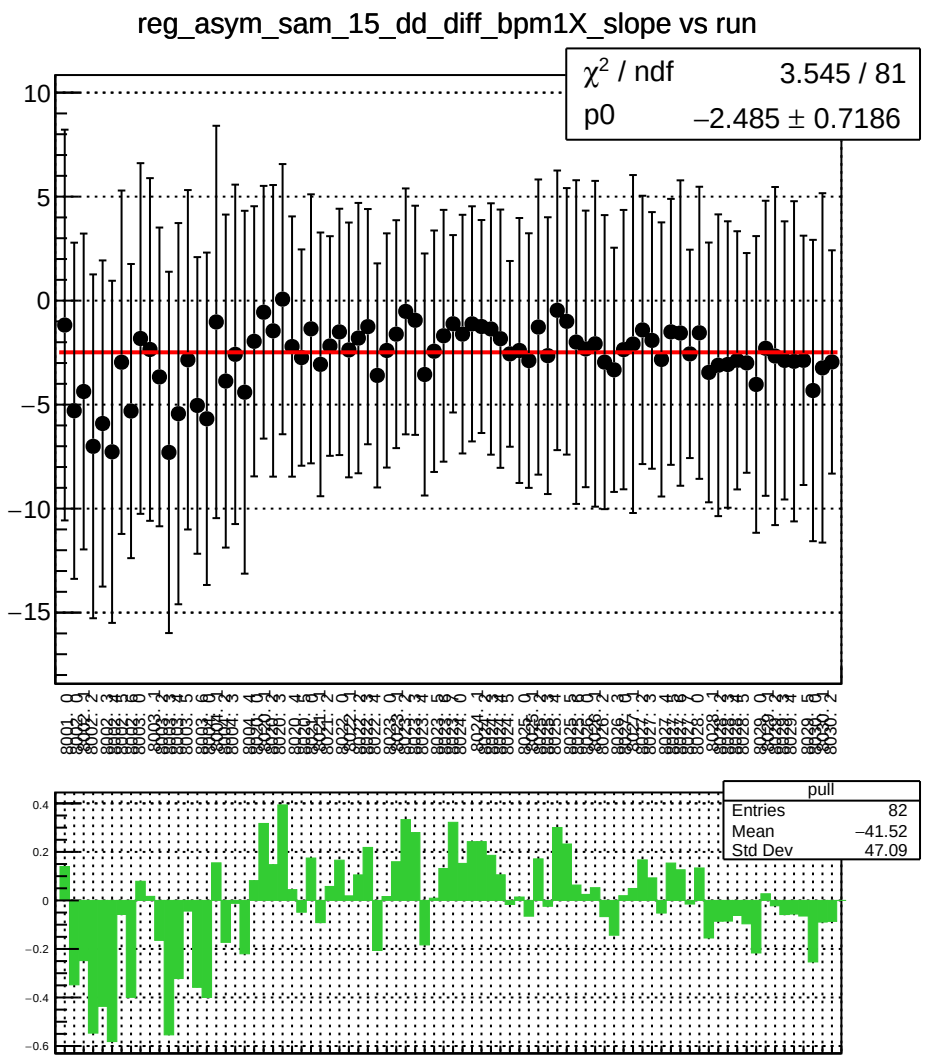

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 15.99 / 81
p0 −2.701 ± 0.3463
pull
Entries 82
Mean −189.4
Std Dev 223.5
pull1D
Entries 82
Mean −0.02783
Std Dev 0.4407

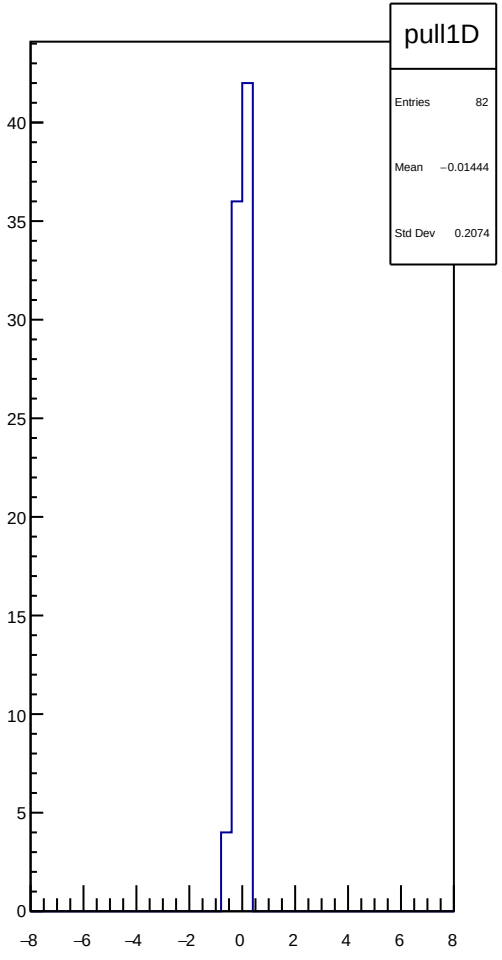

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.53 / 81
p0 24.71 ± 0.524
pull
Entries 82
Mean 329.7
Std Dev 283.8
pull1D
Entries 82
Mean −0.0272
Std Dev 0.6293

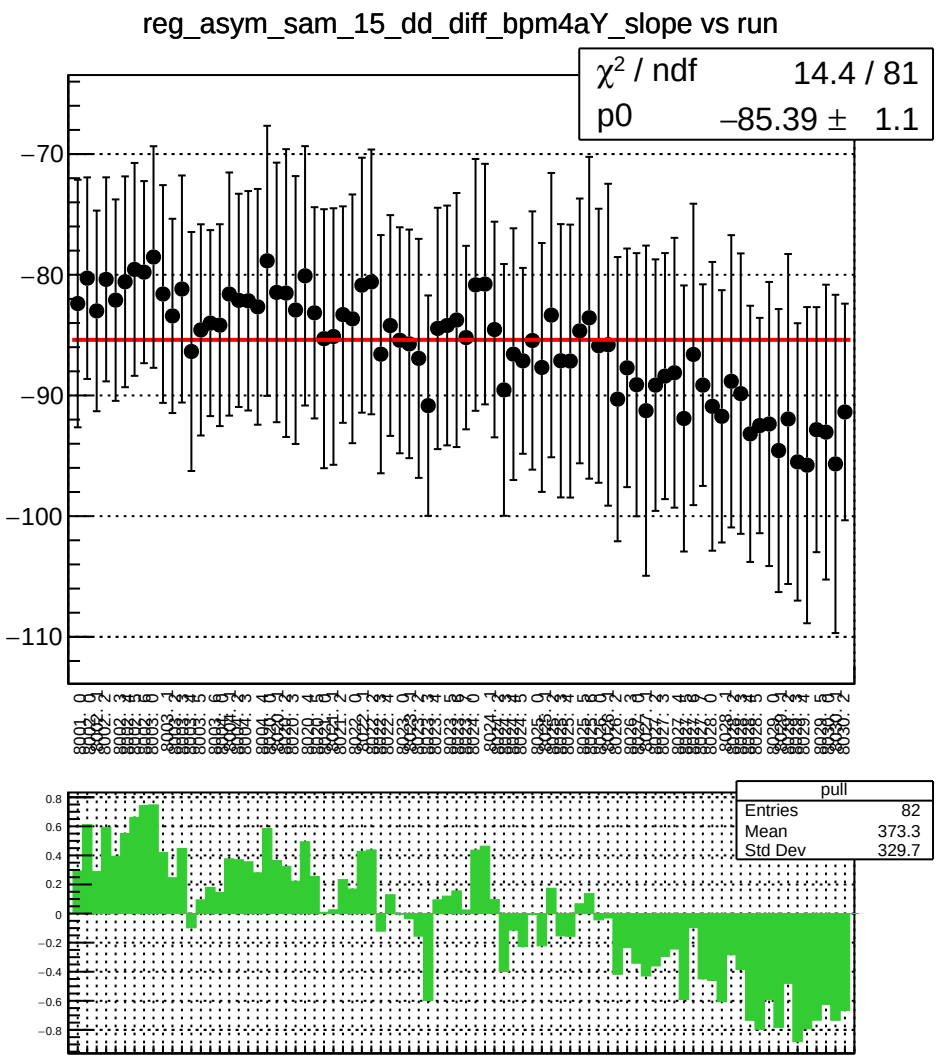

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.768 / 81
p0 −0.5566 ± 0.358
pull
Entries 82
Mean −948.7
Std Dev 985.8
pull1D
Entries 82
Mean 0.00334
Std Dev 0.3078

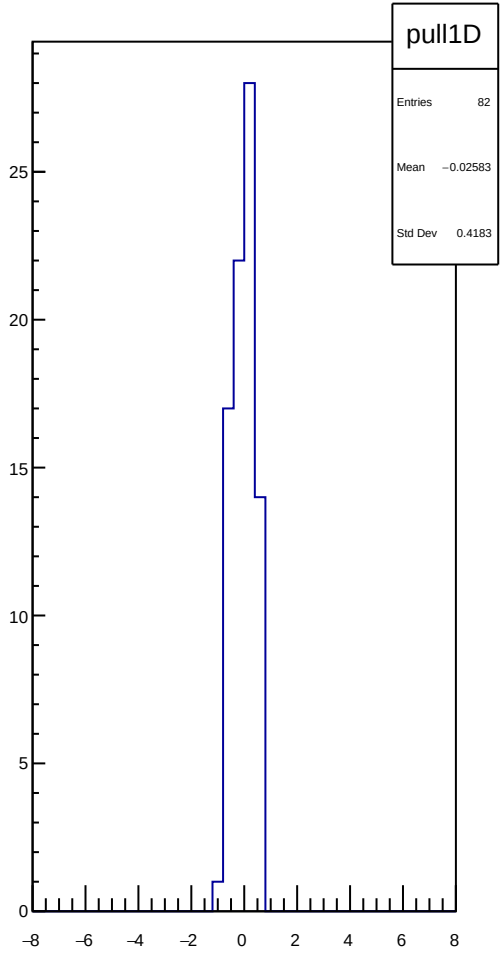

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 65.65 / 81
p0 26.23 ± 0.567
pull
Entries 82
Mean 309.4
Std Dev 268.5
pull1D
Entries 82
Mean 0.05738
Std Dev 0.8929

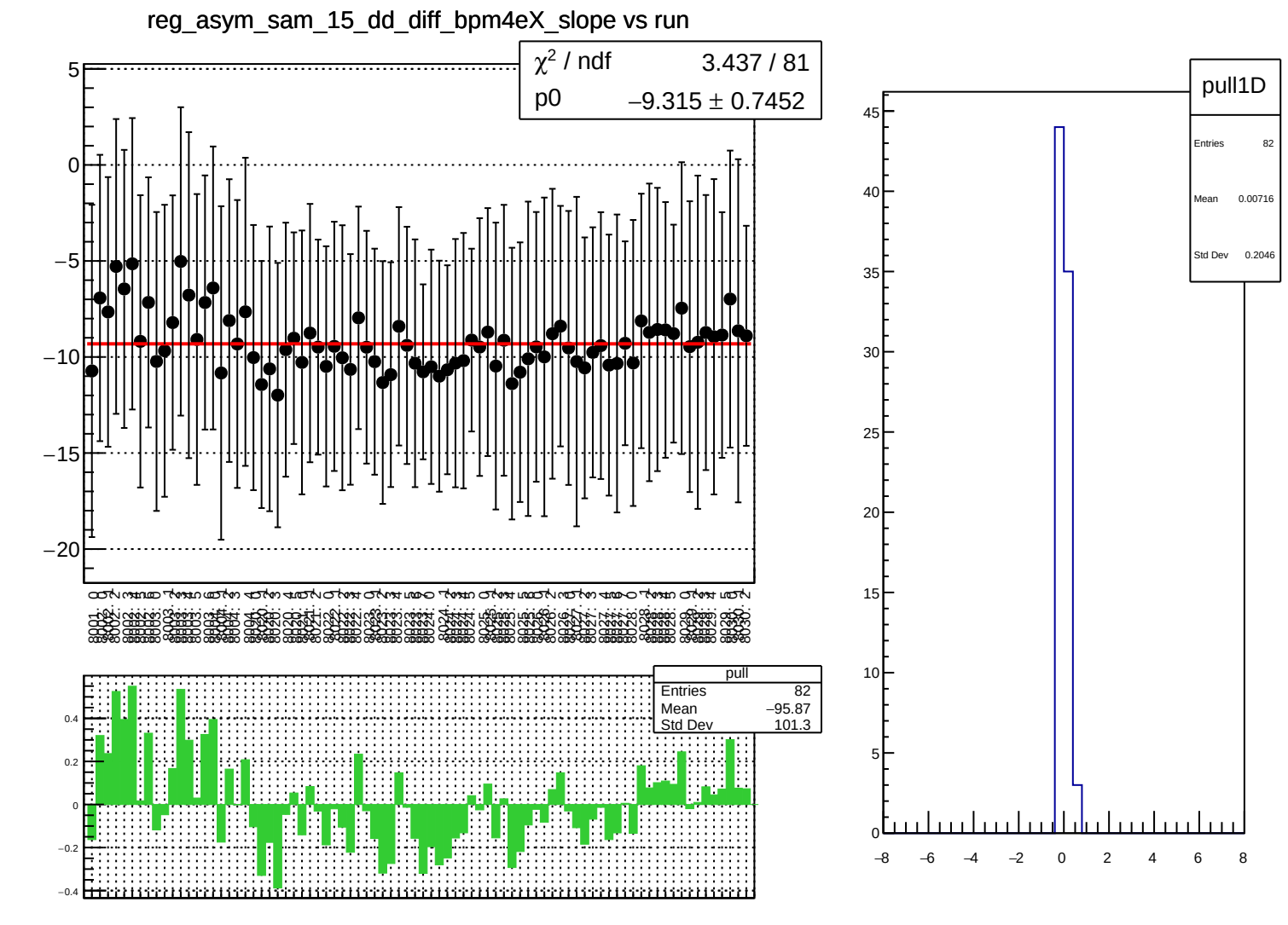

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 146.9 / 81
p0 −0.02447 ± 0.02321
pull
Entries 82
Mean 78.23
Std Dev 36.57
pull1D
Entries 82
Mean 0.5451
Std Dev 1.223

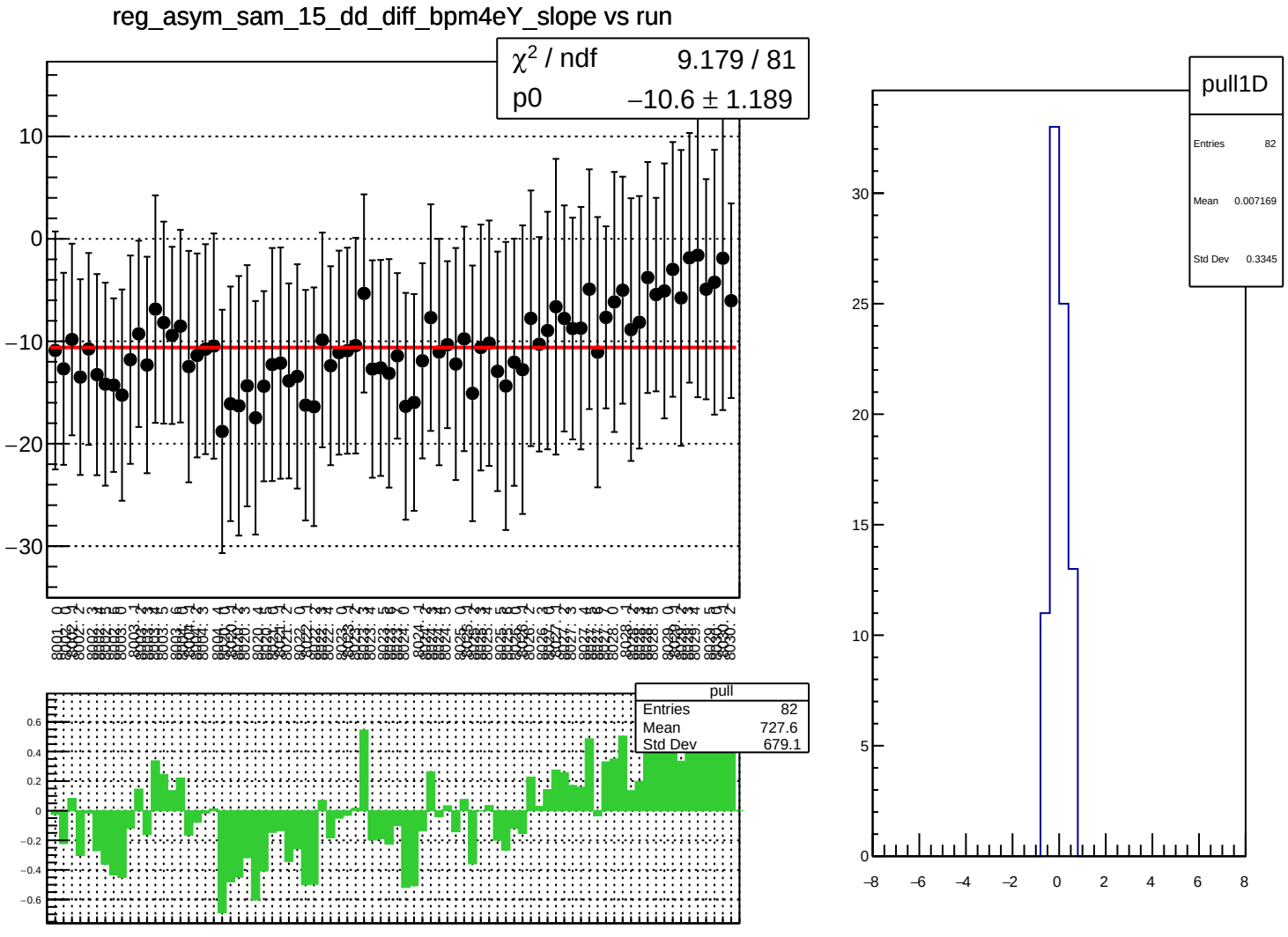

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 3.545 / 81
p0 −2.485 ± 0.7186
pull
Entries 82
Mean −41.52
Std Dev 47.09

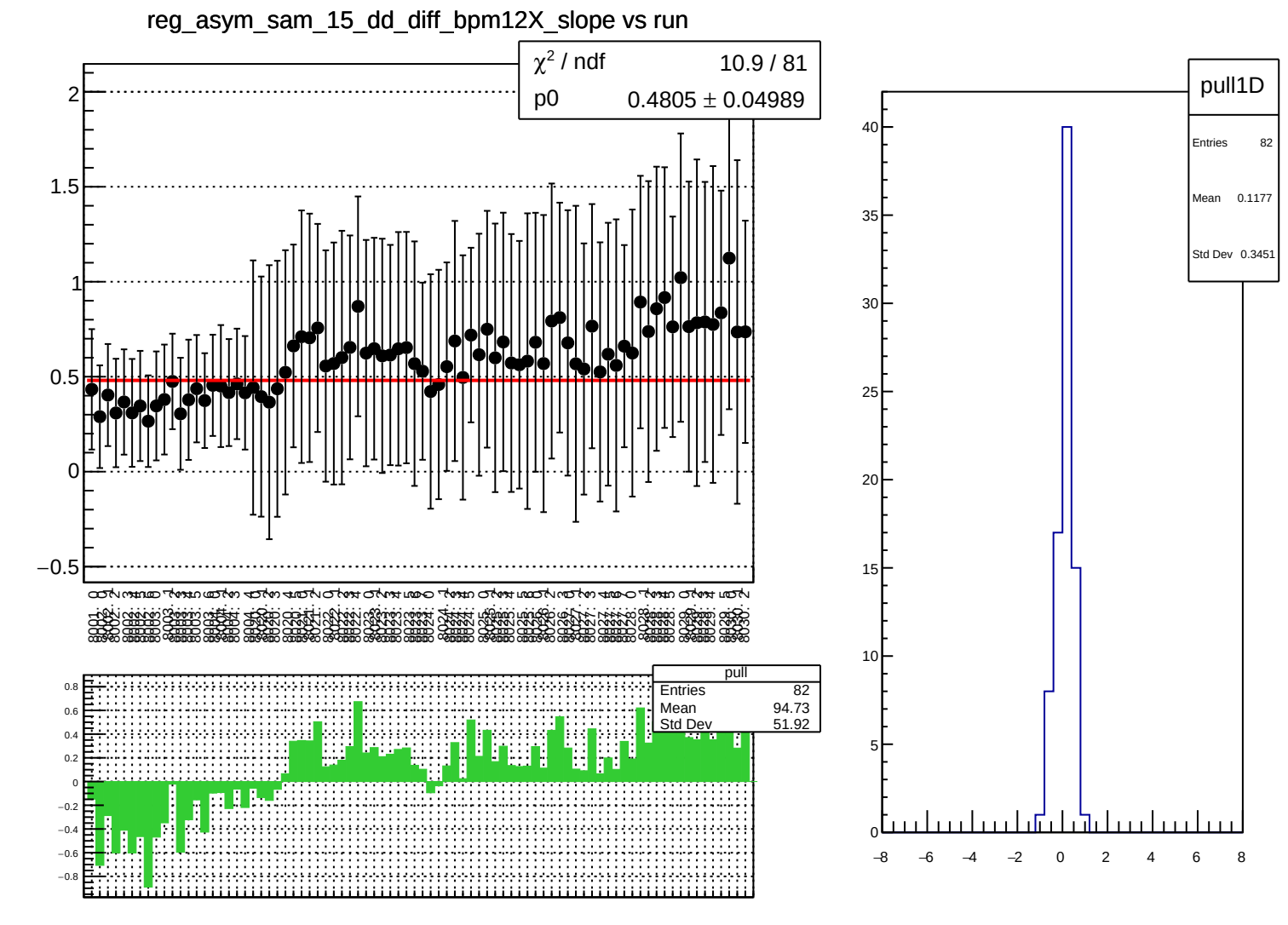

pull1D
Entries 82
Mean −0.01444
Std Dev 0.2074

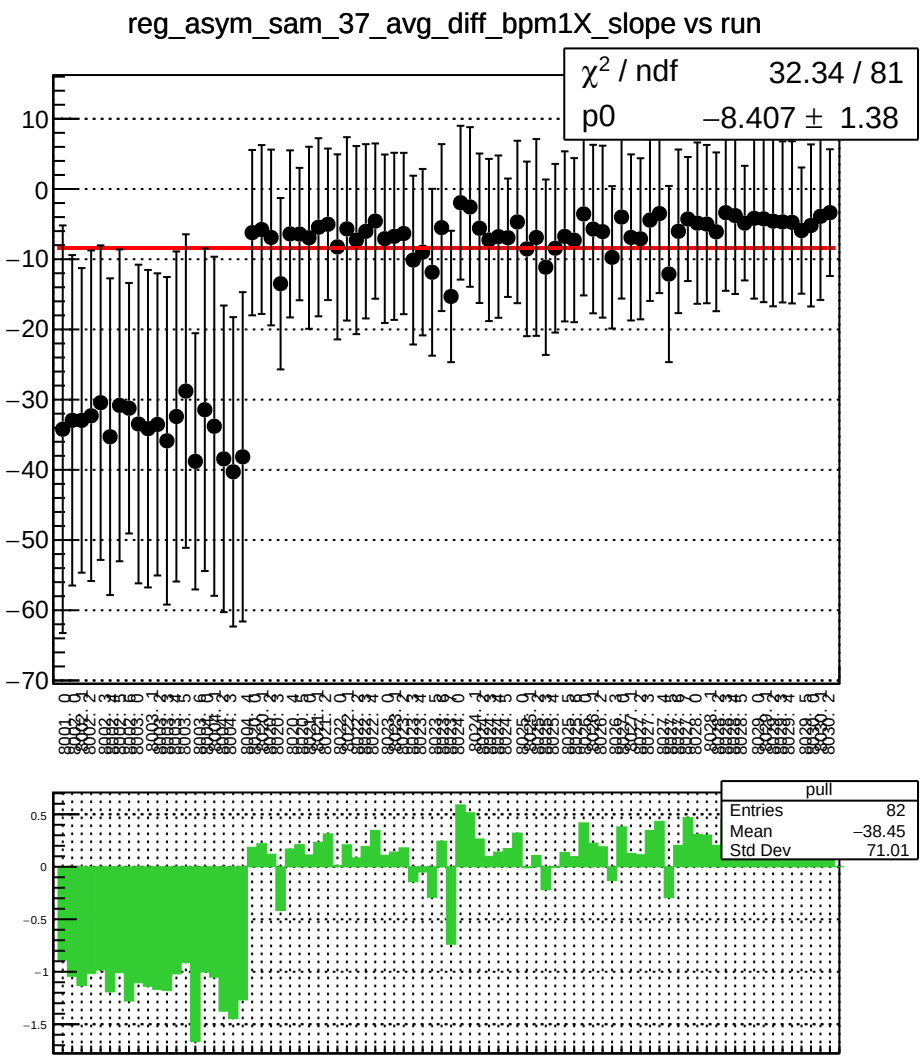

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.4 / 81
p0 −85.39 ± 1.1
−70
−80
−90
−100
−110
pull
Entries 82
Mean 373.3
Std Dev 329.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

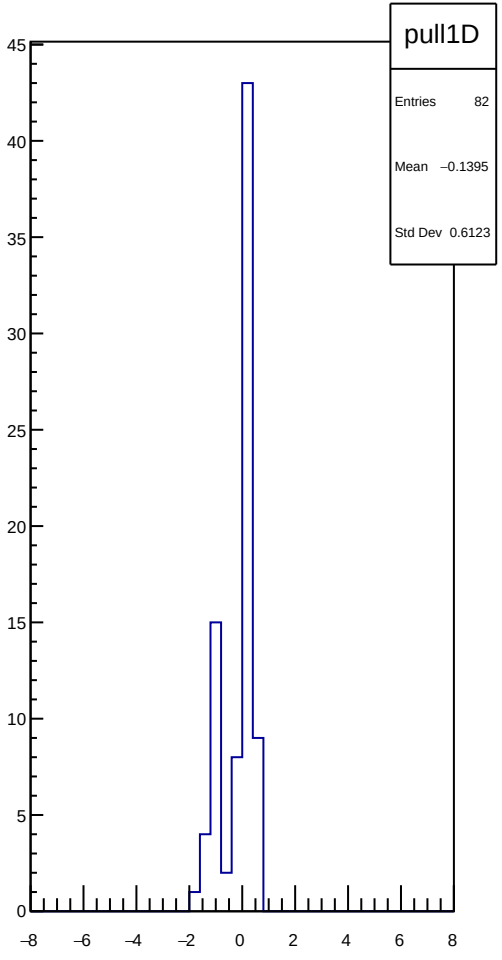

pull1D
Entries 82
Mean −0.02583
Std Dev 0.4183
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

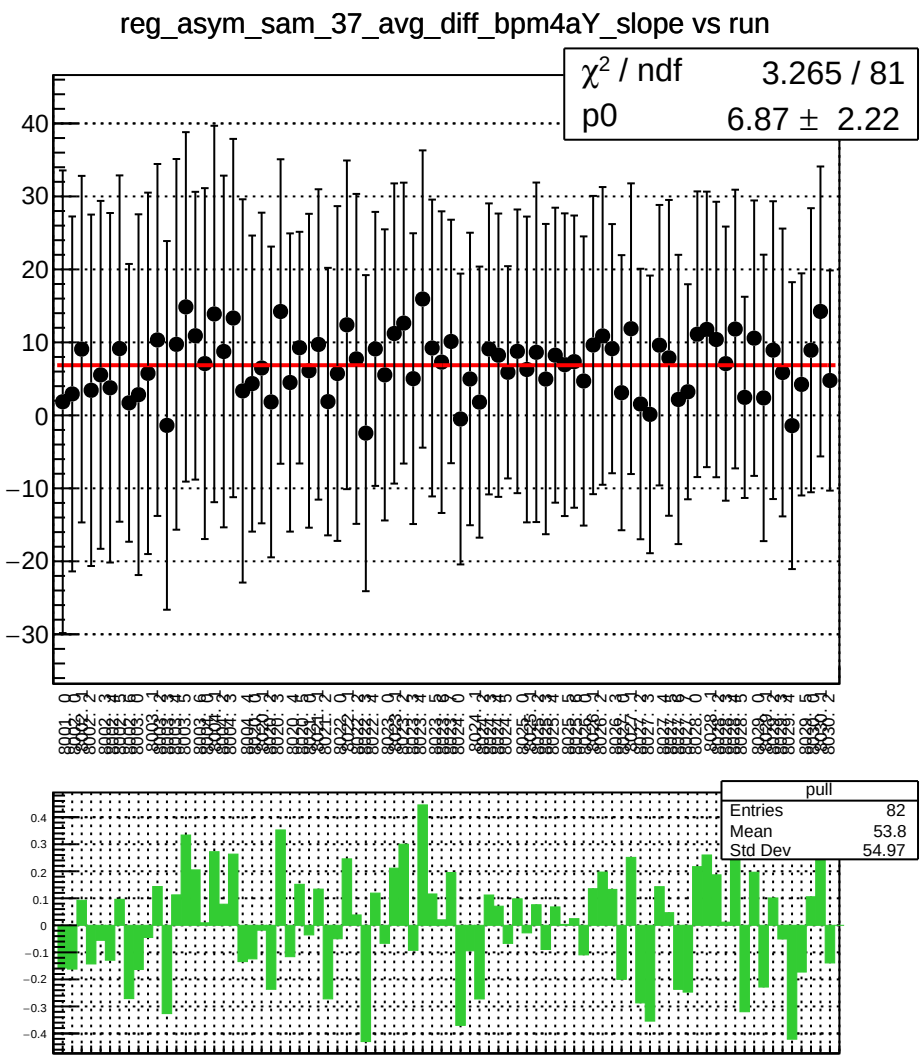

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.437 / 81
p0 −9.315 ± 0.7452
pull
Entries 82
Mean −95.87
Std Dev 101.3
pull1D
Entries 82
Mean 0.00716
Std Dev 0.2046

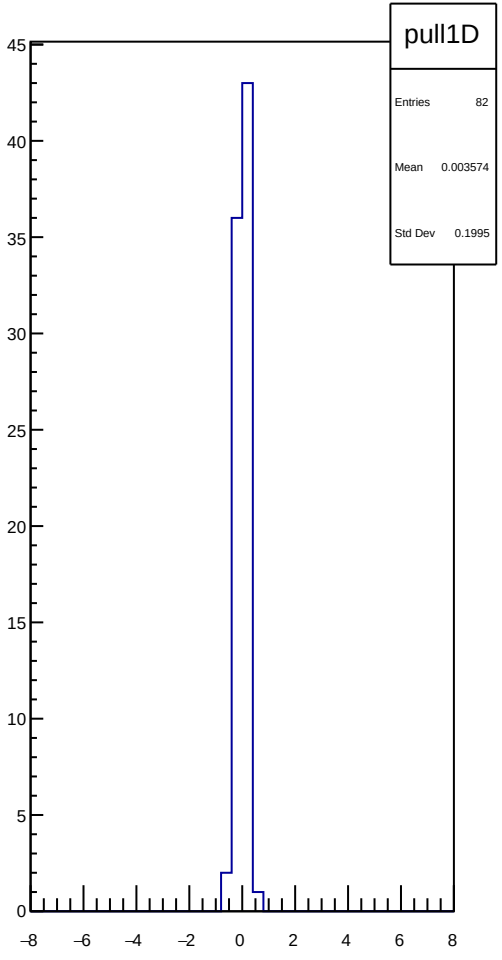

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.179 / 81
p0 −10.6 ± 1.189
pull
Entries 82
Mean 727.6
Std Dev 679.1
pull1D
Entries 82
Mean 0.007169
Std Dev 0.3345

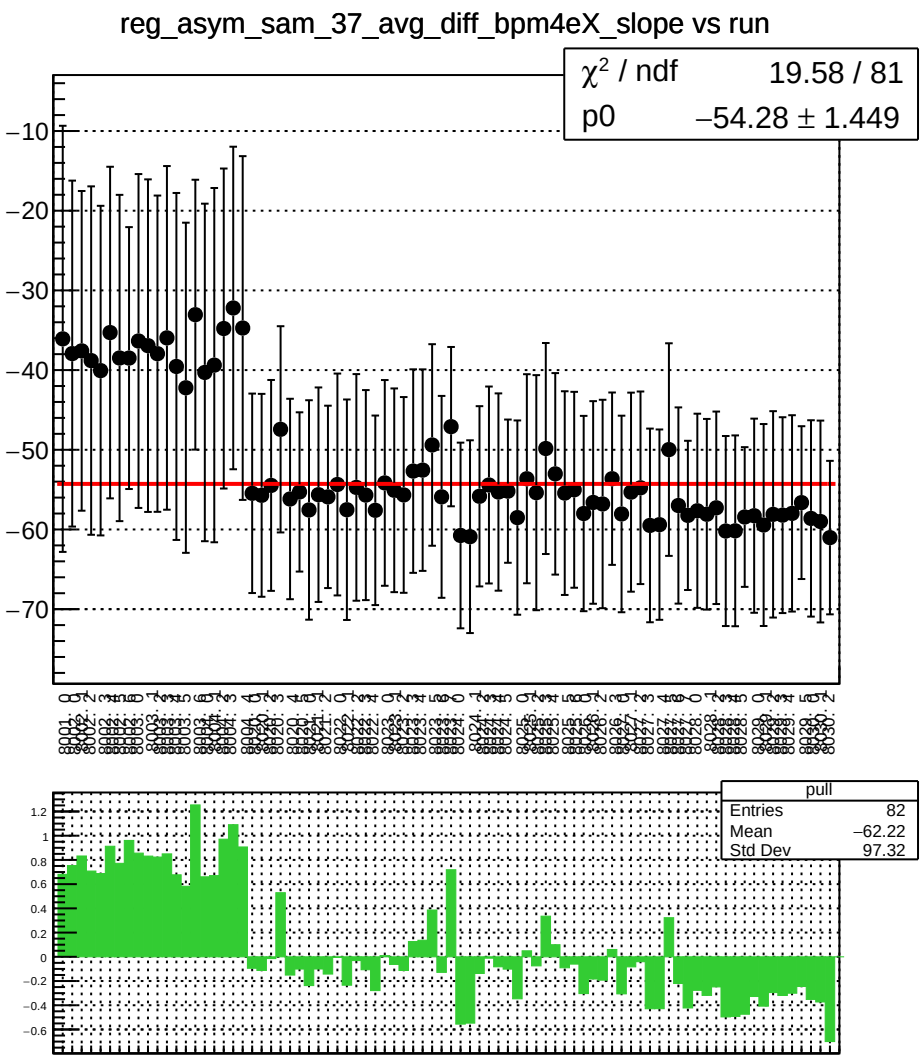

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 10.9 / 81
p0 0.4805 ± 0.04989
pull
Entries 82
Mean 94.73
Std Dev 51.92
pull1D
Entries 82
Mean 0.1177
Std Dev 0.3451

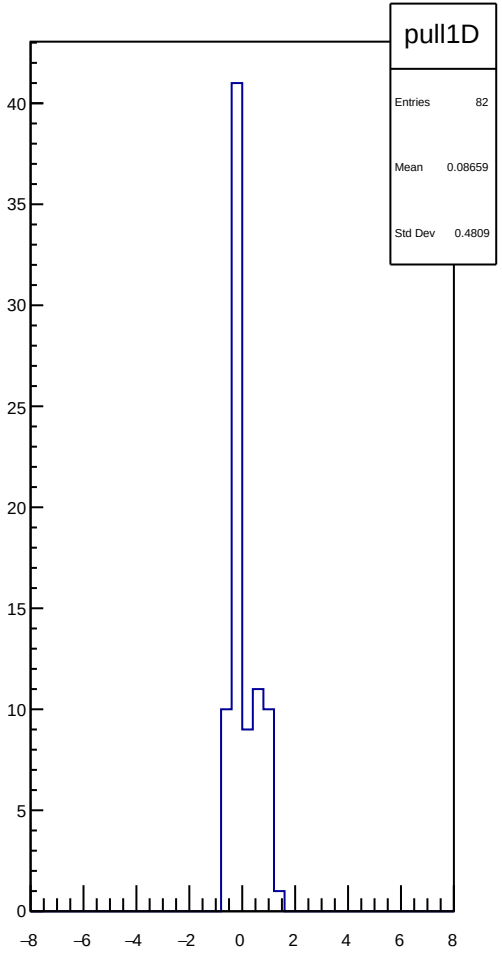

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 32.34 / 81
p0 −8.407 ± 1.38
pull
Entries 82
Mean −38.45
Std Dev 71.01

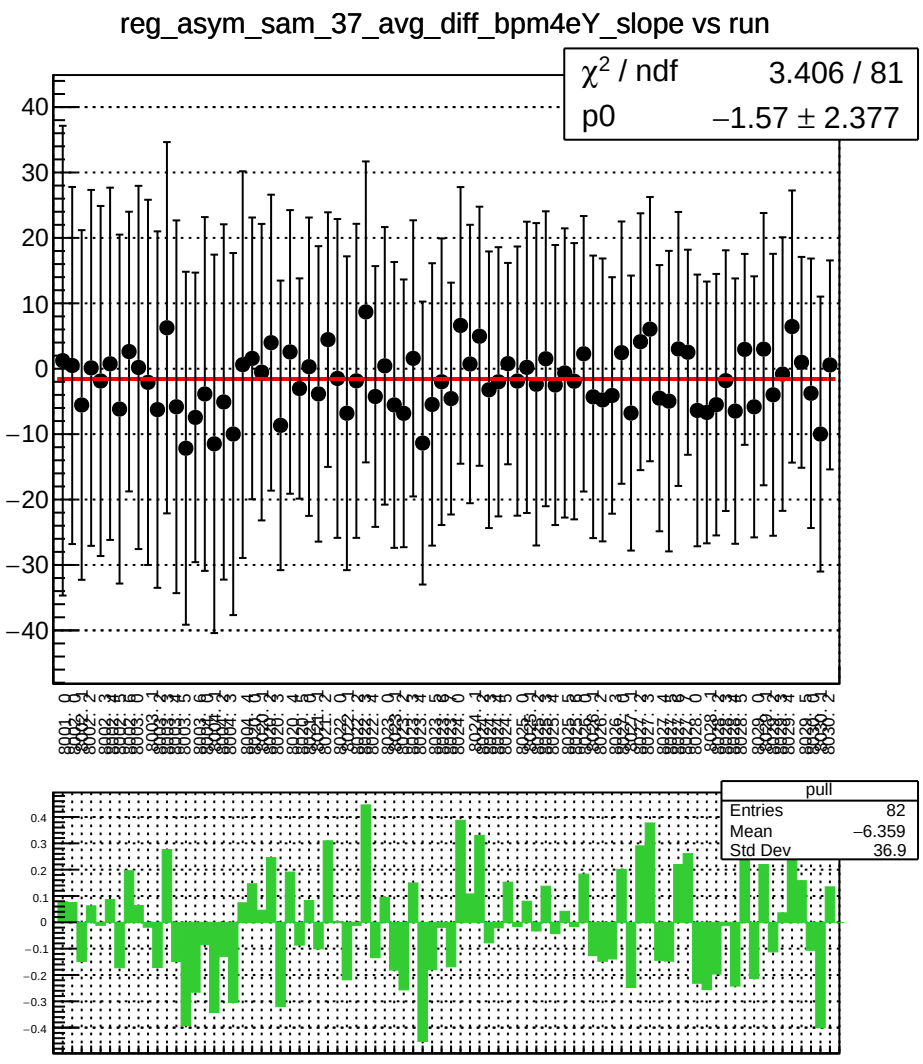

pull1D
Entries 82
Mean −0.1395
Std Dev 0.6123

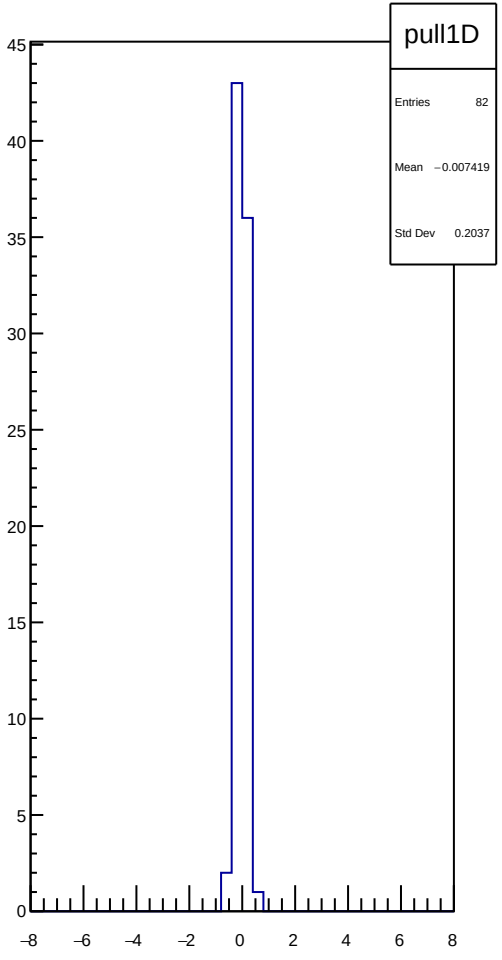

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.265 / 81
p0 6.87 ± 2.22
pull
Entries 82
Mean 53.8
Std Dev 54.97

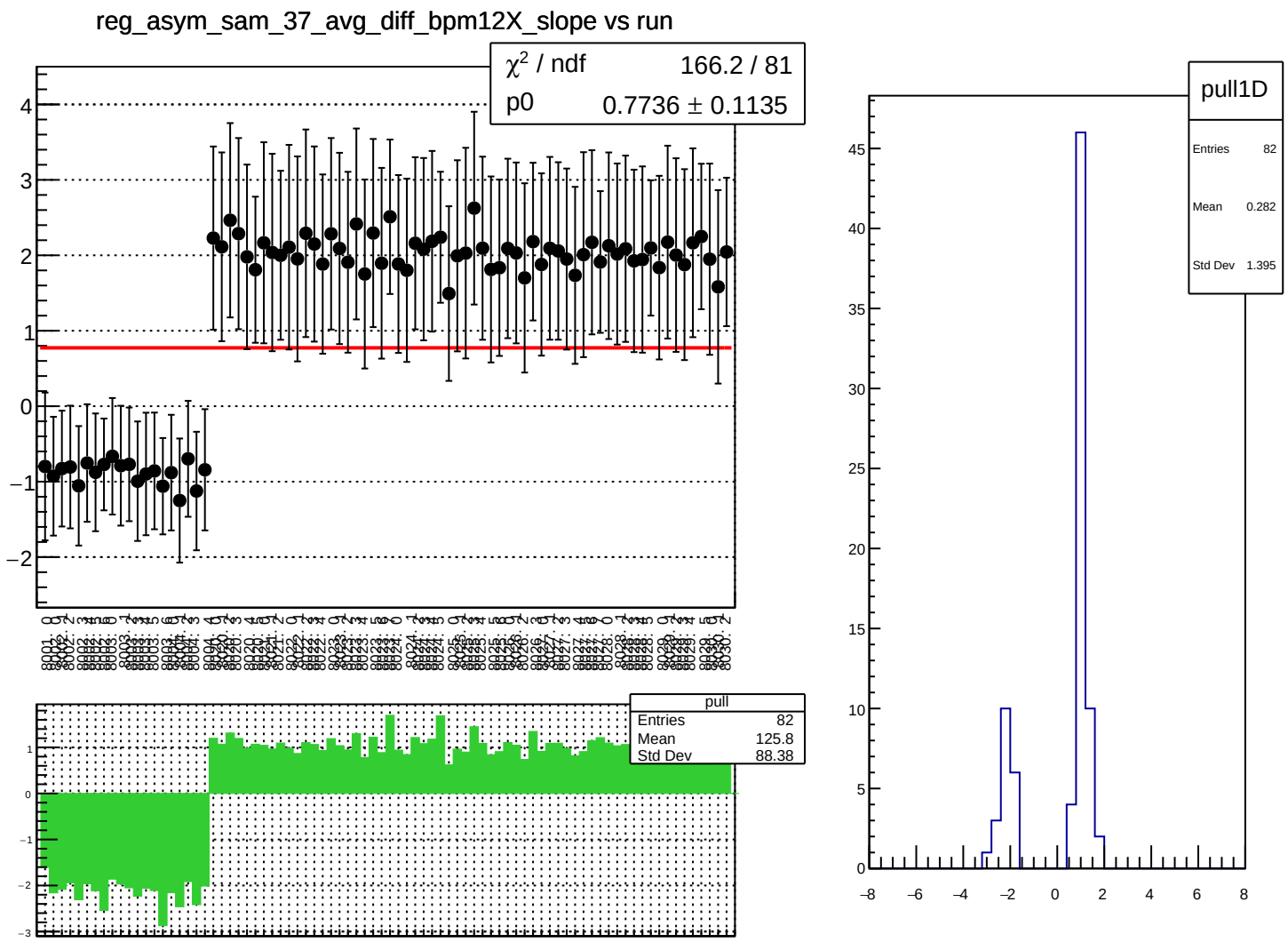

pull1D
Entries 82
Mean 0.003574
Std Dev 0.1995

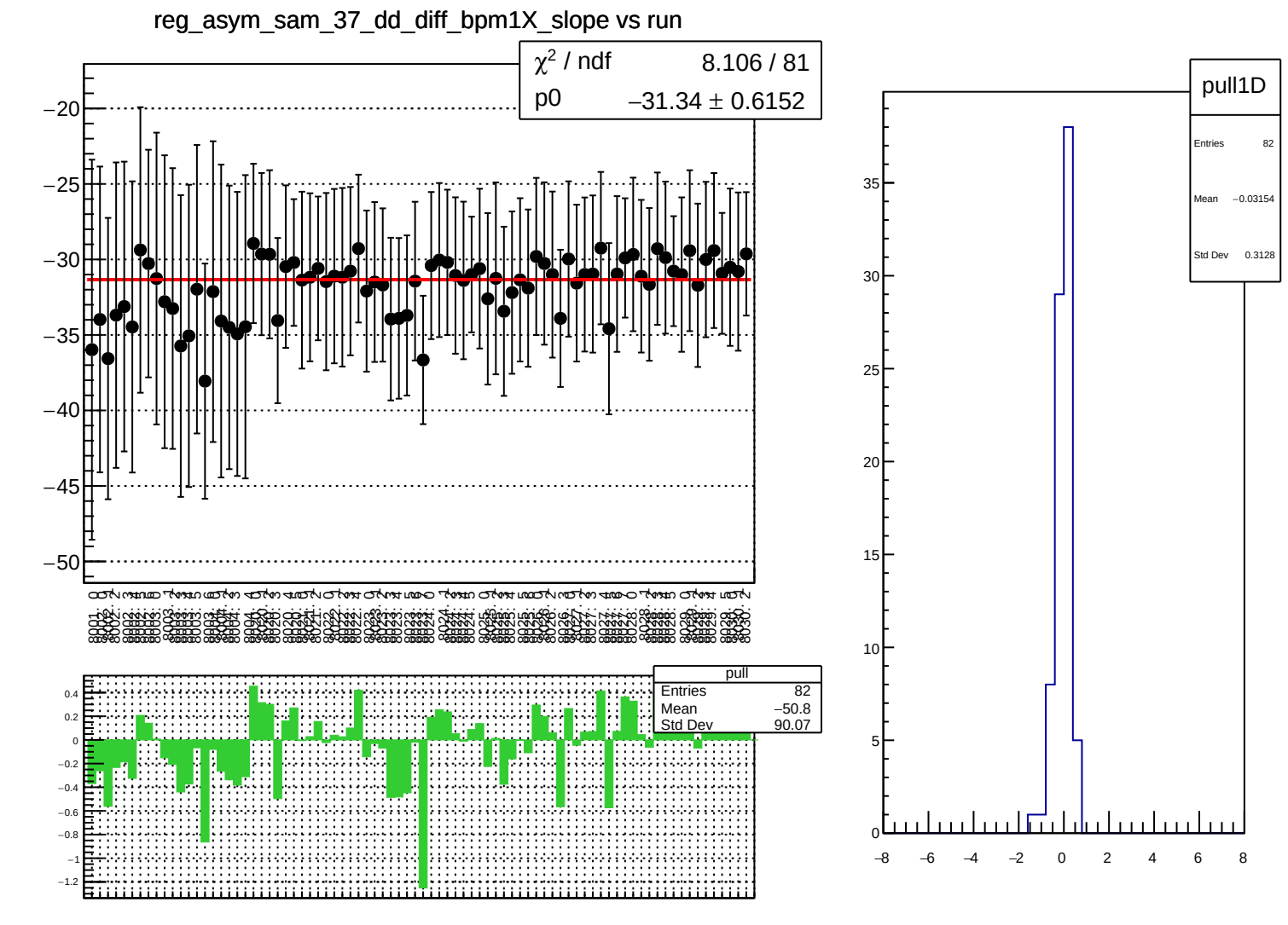

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.58 / 81
p0 −54.28 ± 1.449
pull
Entries 82
Mean −62.22
Std Dev 97.32

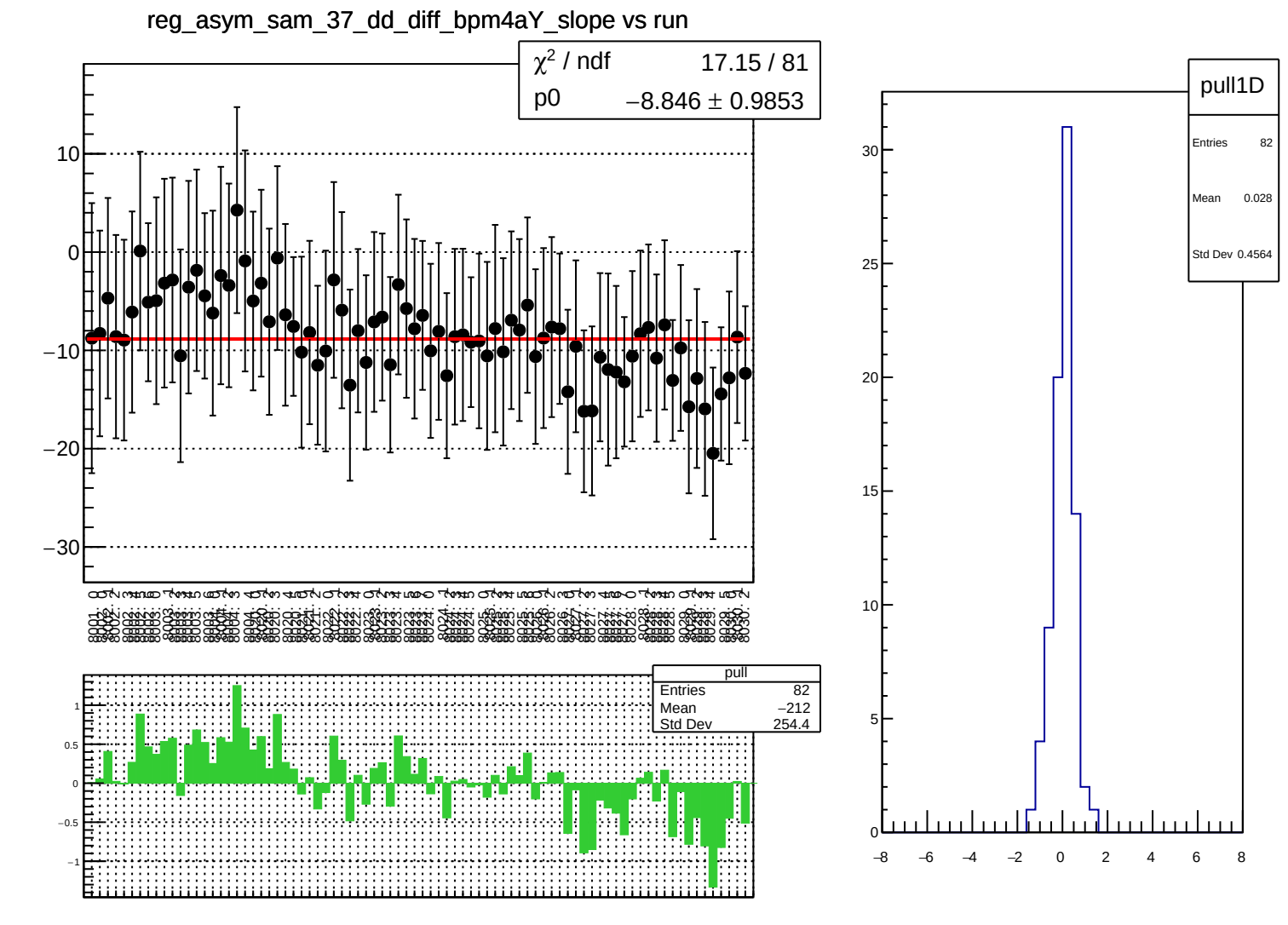

pull1D
Entries 82
Mean 0.08659
Std Dev 0.4809

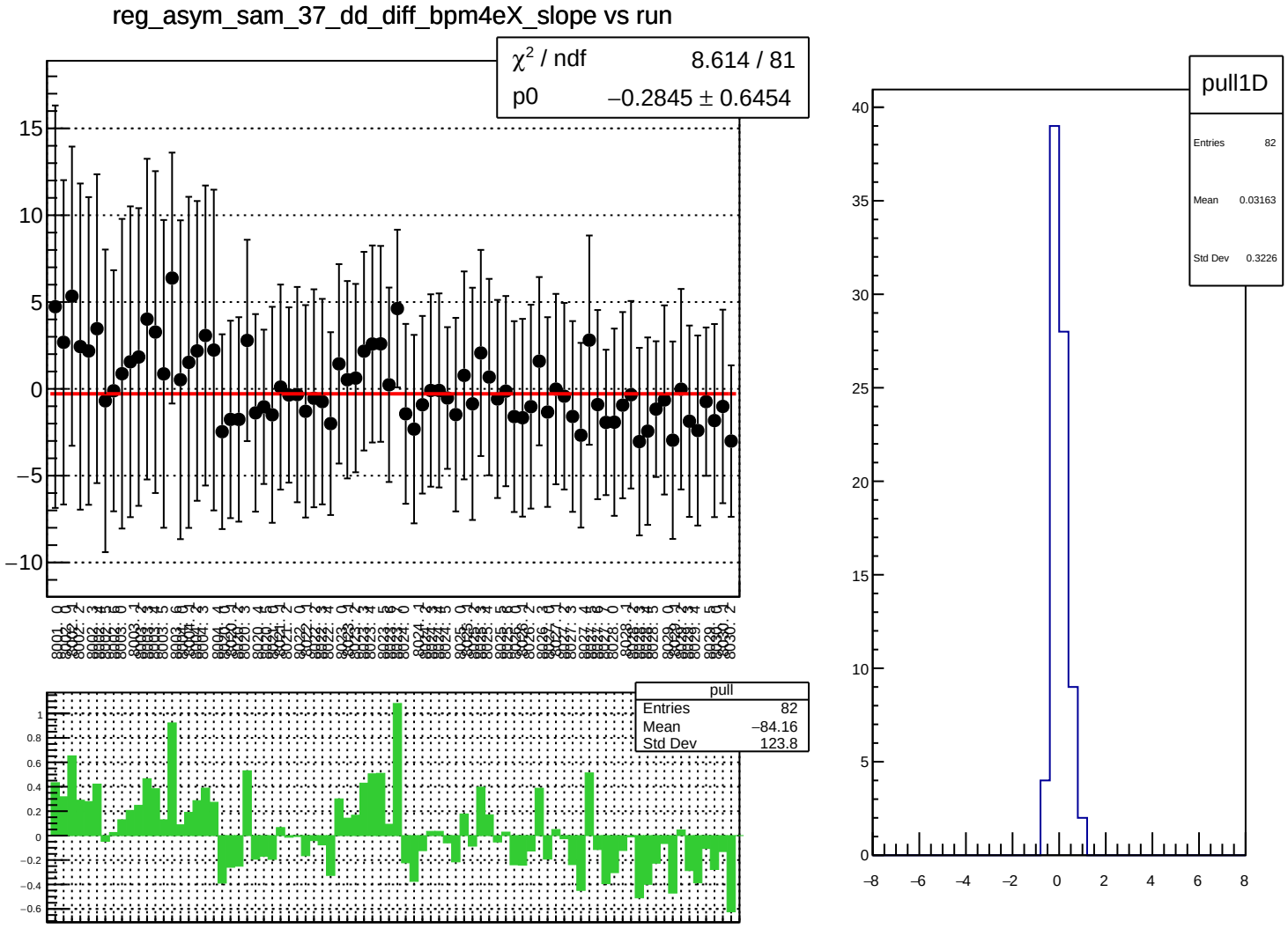

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.406 / 81
p0 −1.57 ± 2.377
pull
Entries 82
Mean −6.359
Std Dev 36.9

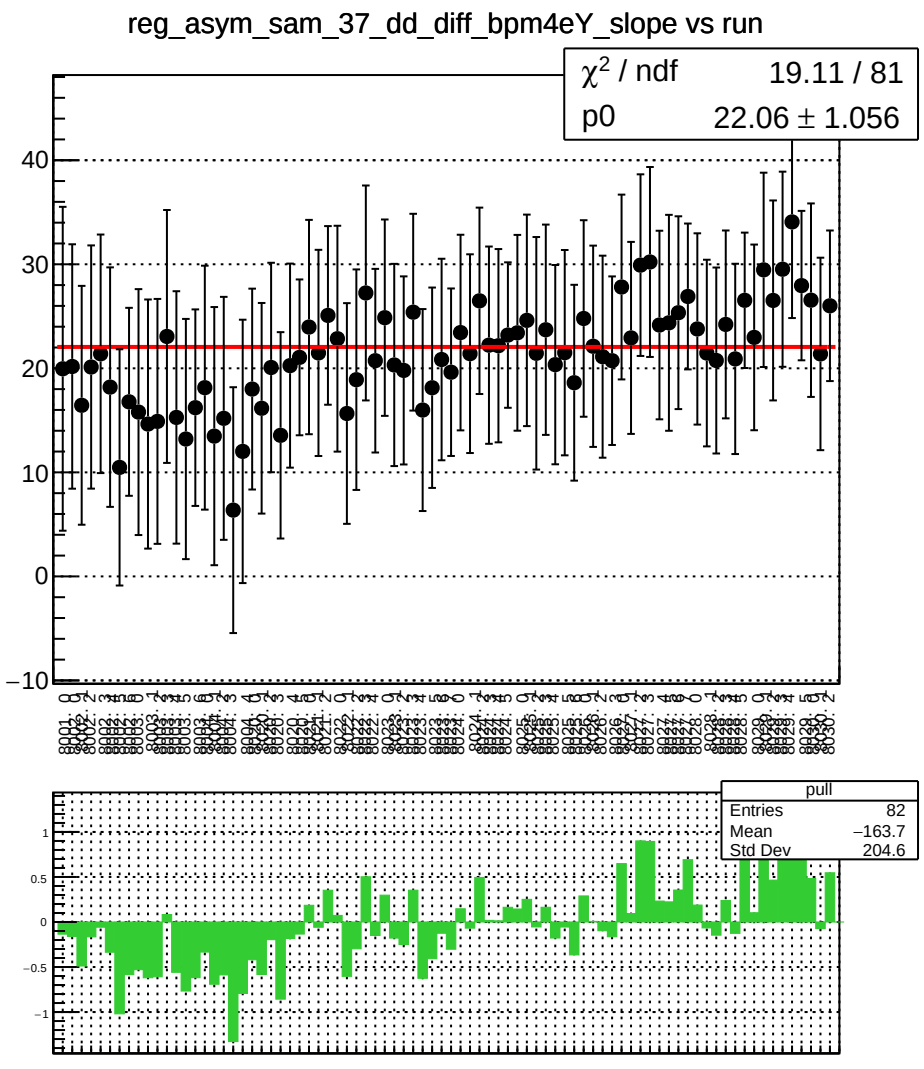

pull1D
Entries 82
Mean −0.007419
Std Dev 0.2037

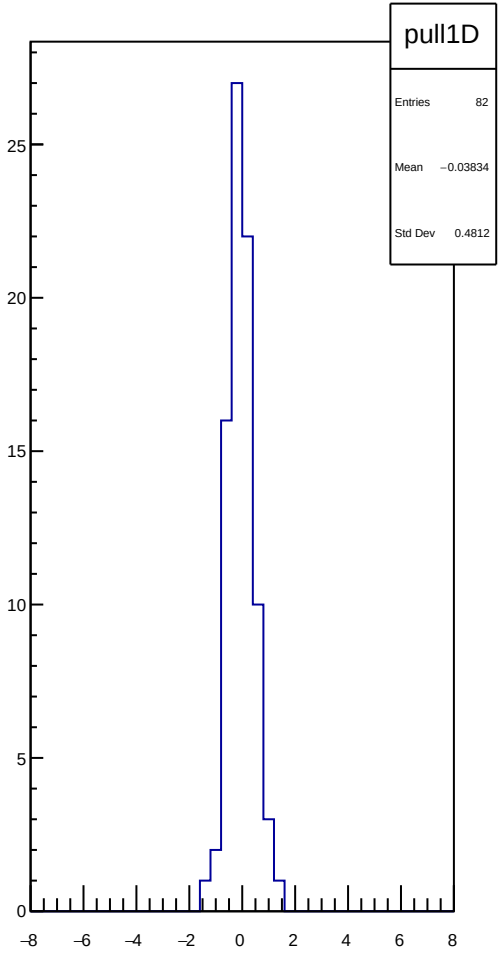

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 166.2 / 81
p0 0.7736 ± 0.1135
pull
Entries 82
Mean 125.8
Std Dev 88.38
pull1D
Entries 82
Mean 0.282
Std Dev 1.395

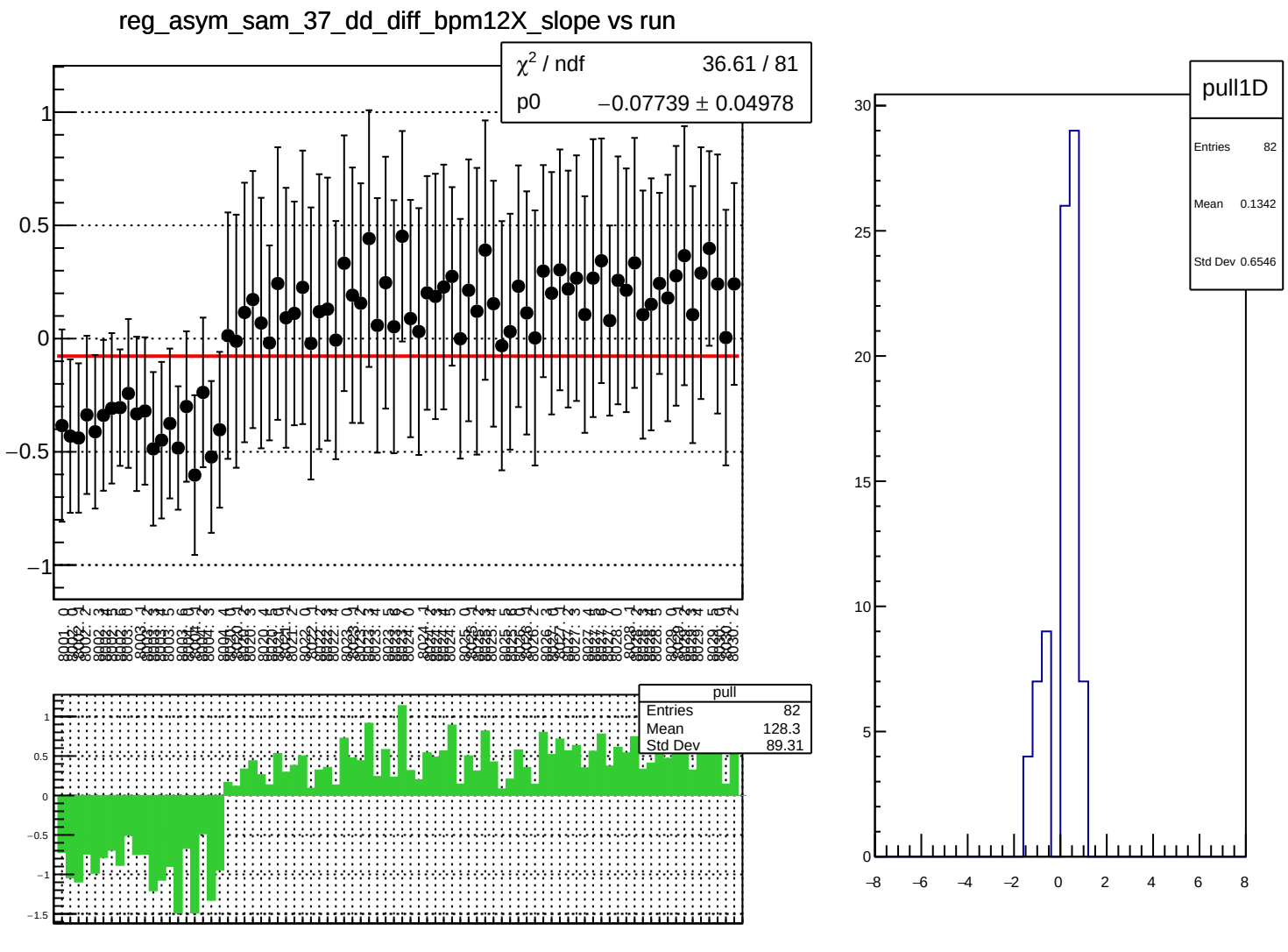

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 8.106 / 81
p0 −31.34 ± 0.6152
pull
Entries 82
Mean −50.8
Std Dev 90.07
pull1D
Entries 82
Mean −0.03154
Std Dev 0.3128

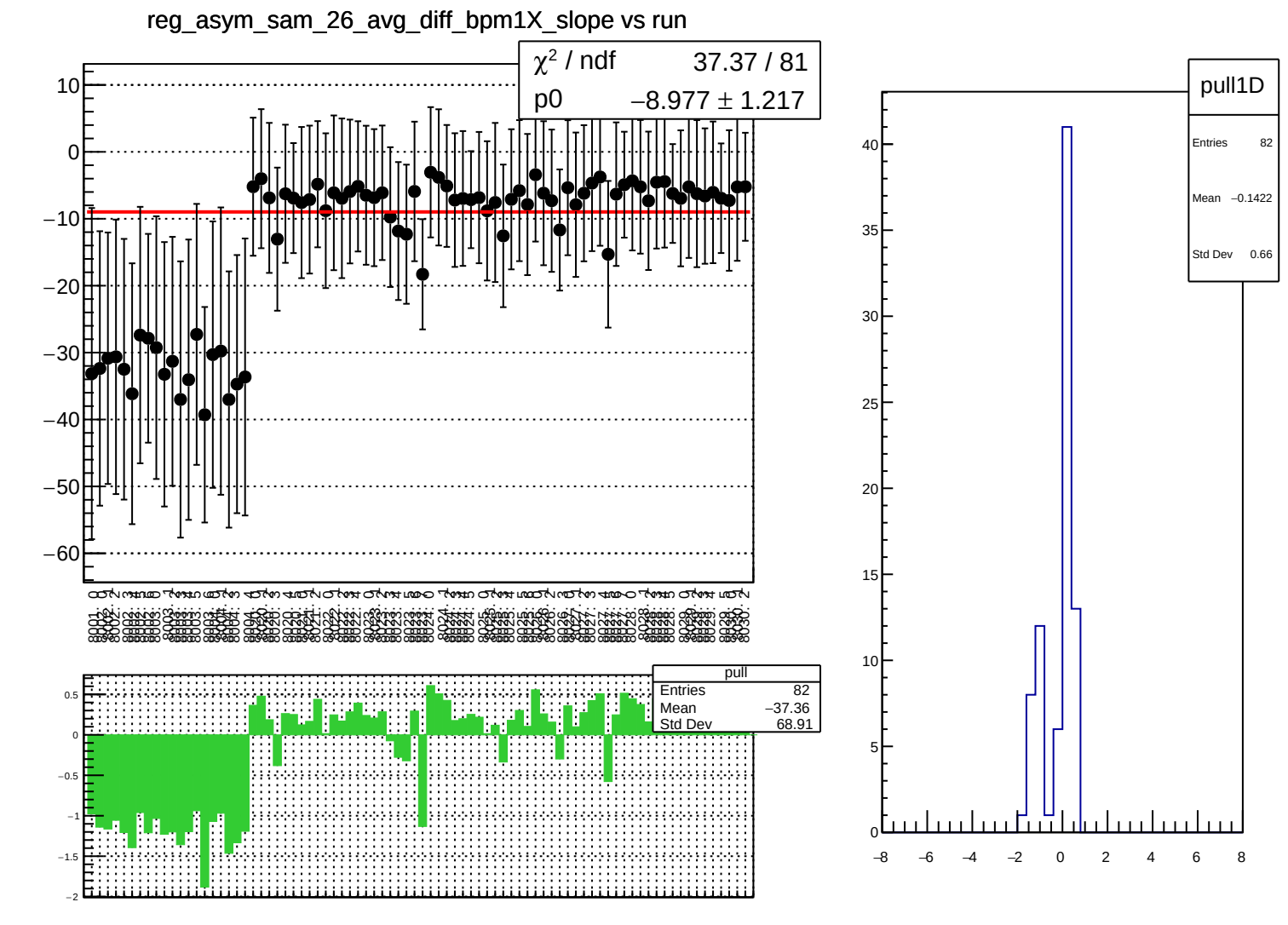

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.15 / 81
p0 −8.846 ± 0.9853
pull
Entries 82
Mean −212
Std Dev 254.4
pull1D
Entries 82
Mean 0.028
Std Dev 0.4564

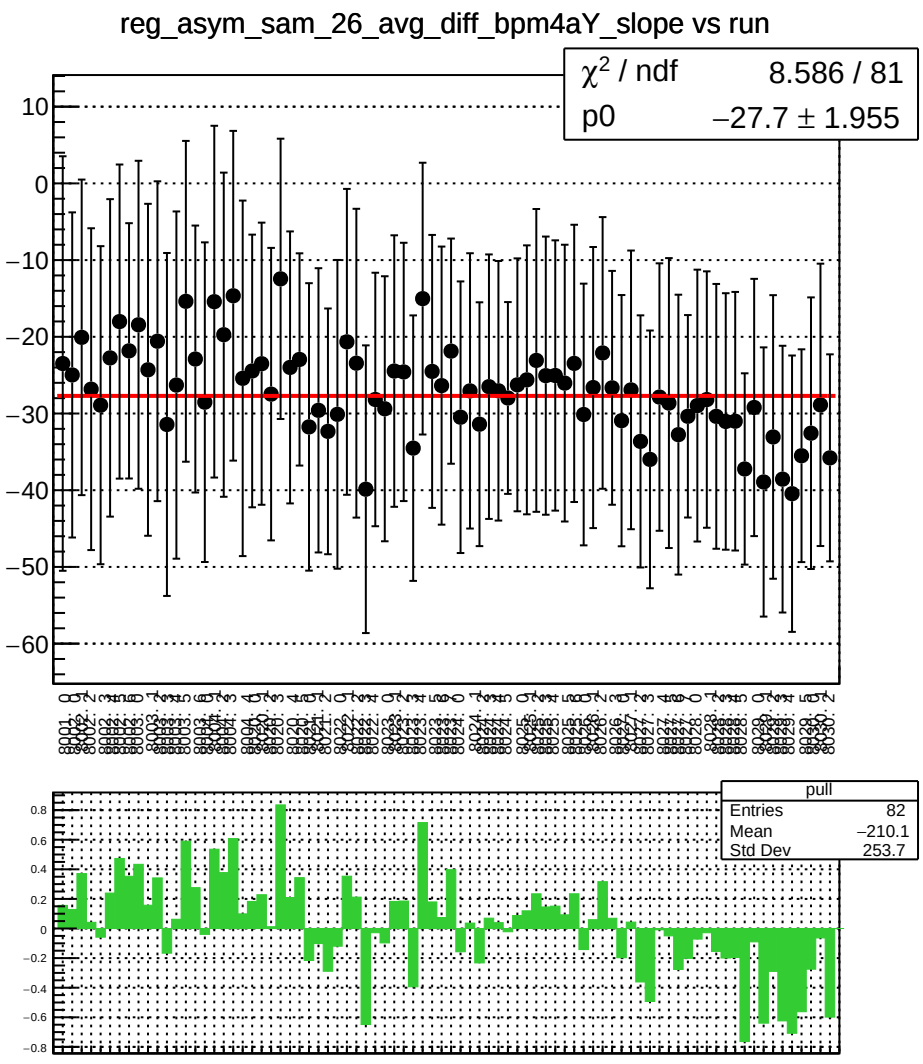

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.614 / 81
p0 −0.2845 ± 0.6454
pull
Entries 82
Mean −84.16
Std Dev 123.8
pull1D
Entries 82
Mean 0.03163
Std Dev 0.3226

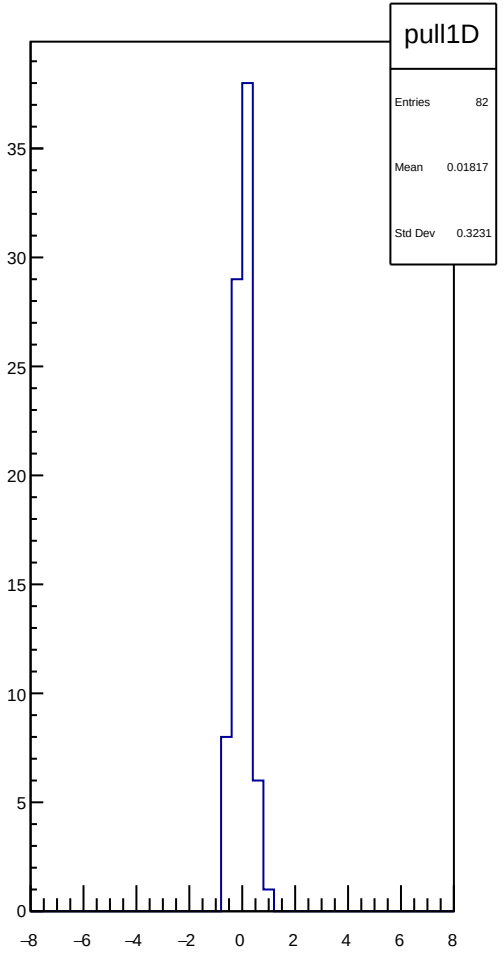

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.11 / 81
p0 22.06 ± 1.056
pull
Entries 82
Mean −163.7
Std Dev 204.6

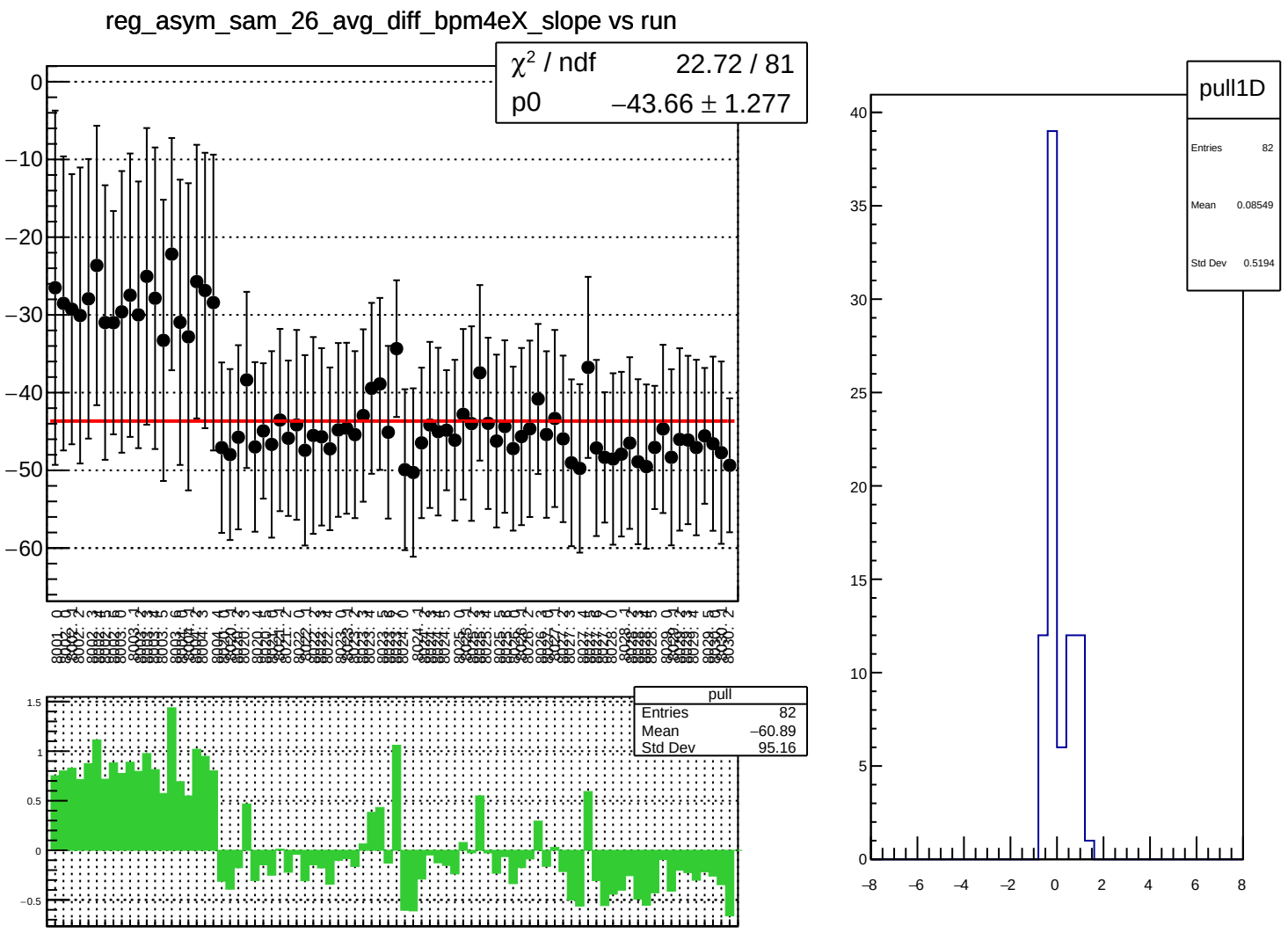

pull1D
Entries 82
Mean −0.03834
Std Dev 0.4812

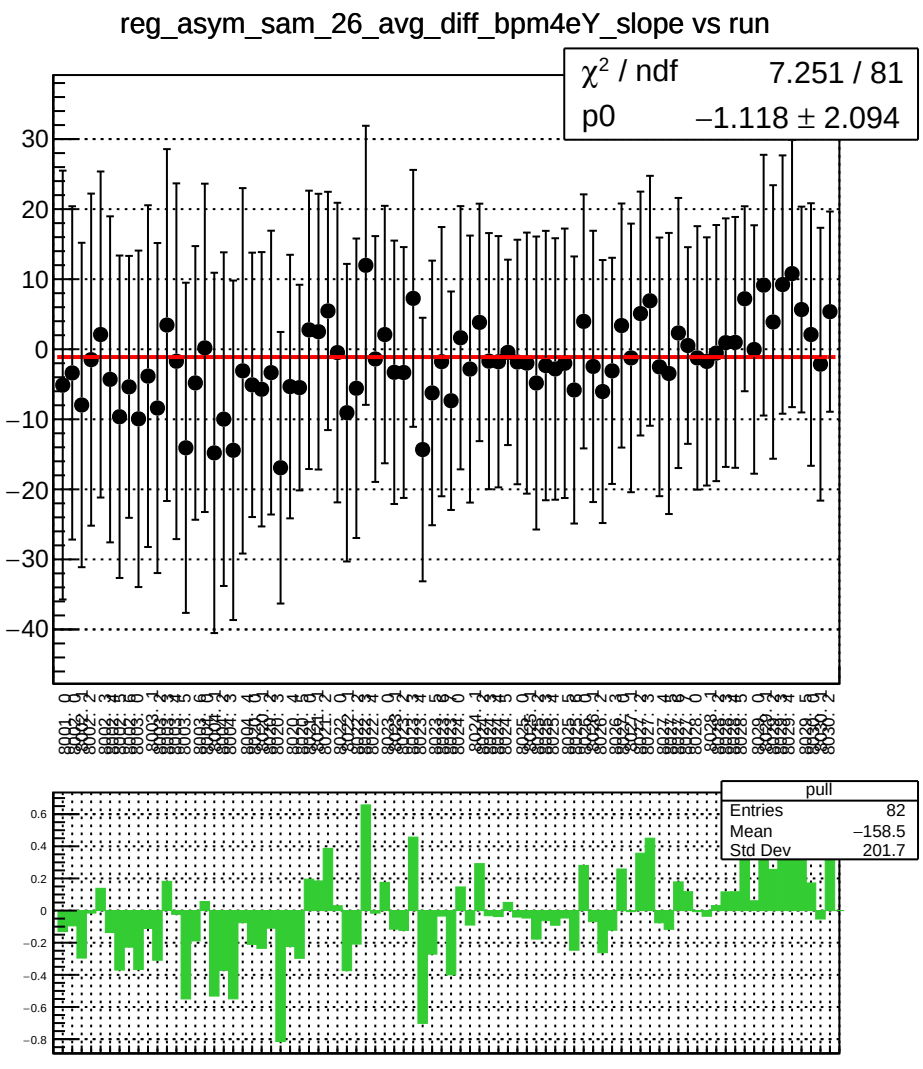

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 36.61 / 81
p0 −0.07739 ± 0.04978
pull
Entries 82
Mean 128.3
Std Dev 89.31
pull1D
Entries 82
Mean 0.1342
Std Dev 0.6546

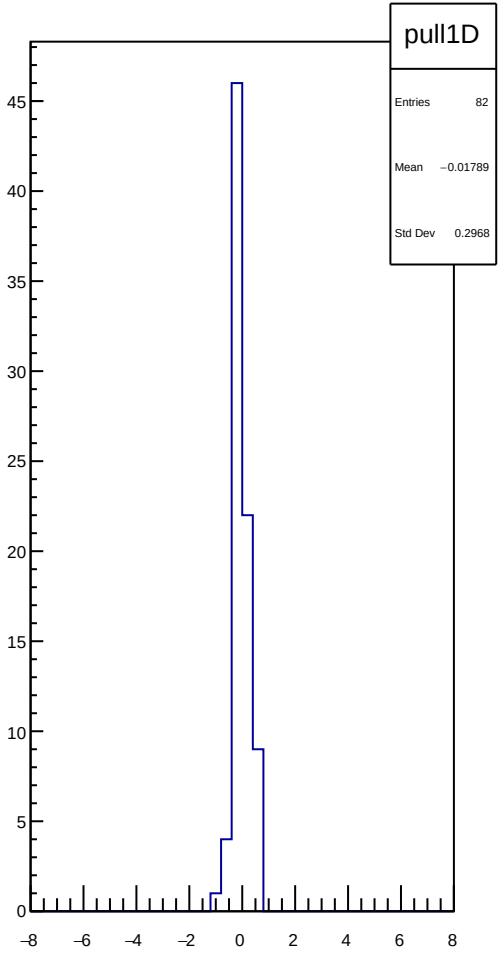

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 37.37 / 81
p0 −8.977 ± 1.217
pull
Entries 82
Mean −37.36
Std Dev 68.91
pull1D
Entries 82
Mean −0.1422
Std Dev 0.66

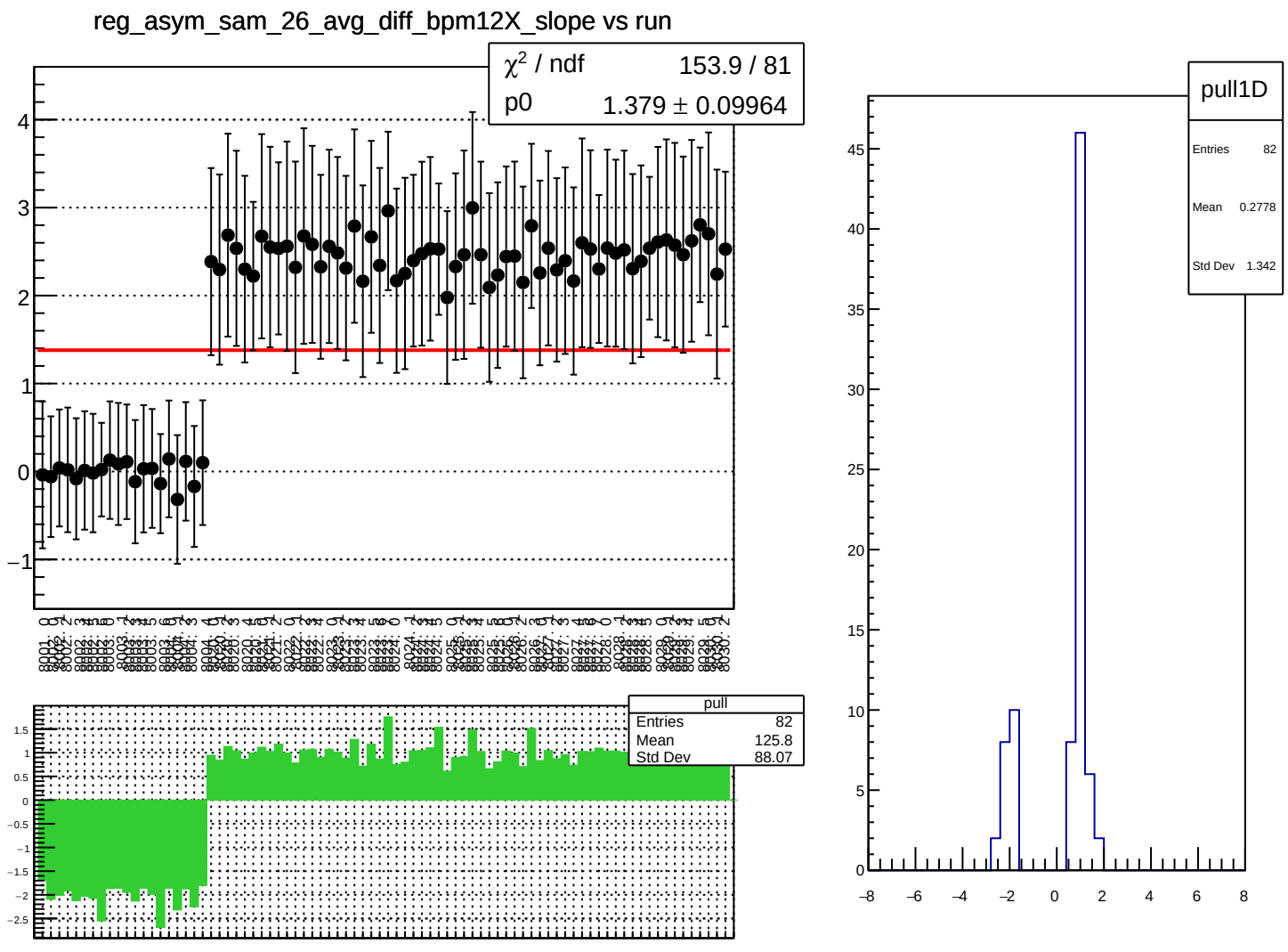

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.586 / 81
p0 −27.7 ± 1.955
pull
Entries 82
Mean −210.1
Std Dev 253.7

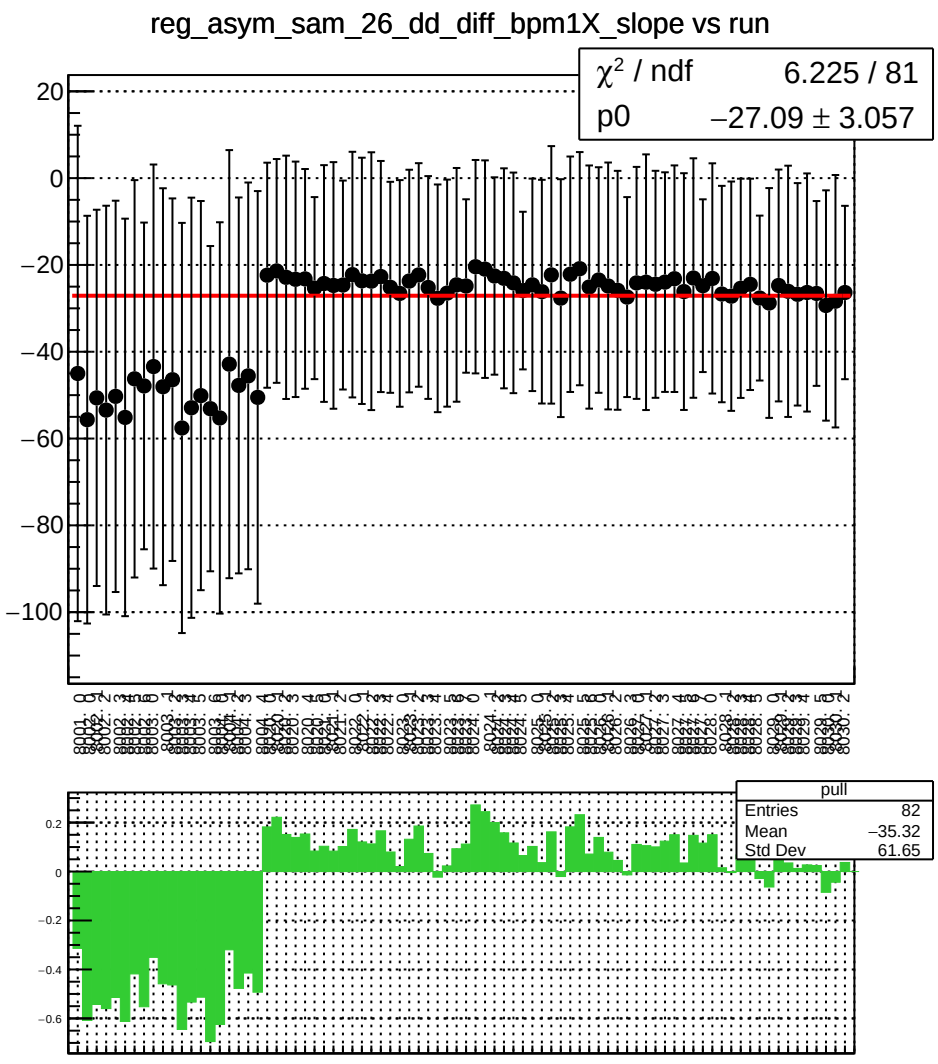

pull1D
Entries 82
Mean 0.01817
Std Dev 0.3231

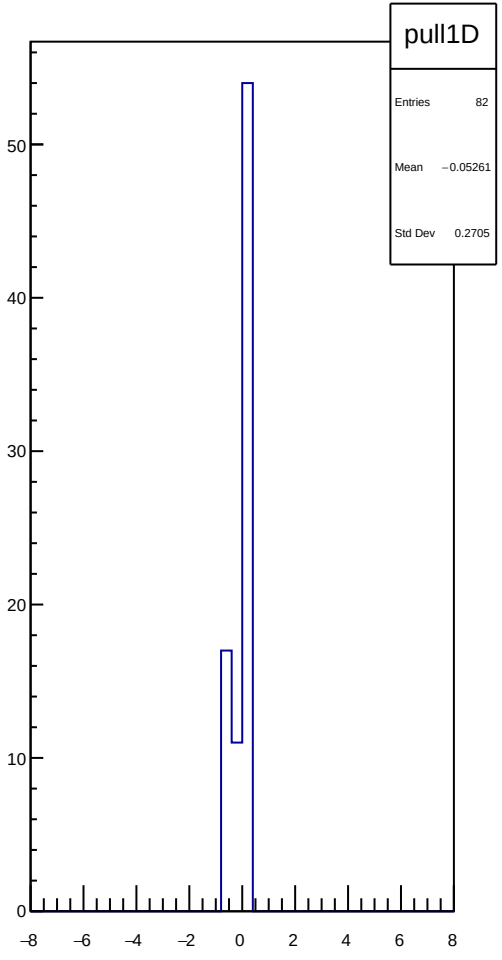

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.72 / 81
p0 −43.66 ± 1.277
pull
Entries 82
Mean −60.89
Std Dev 95.16
pull1D
Entries 82
Mean 0.08549
Std Dev 0.5194

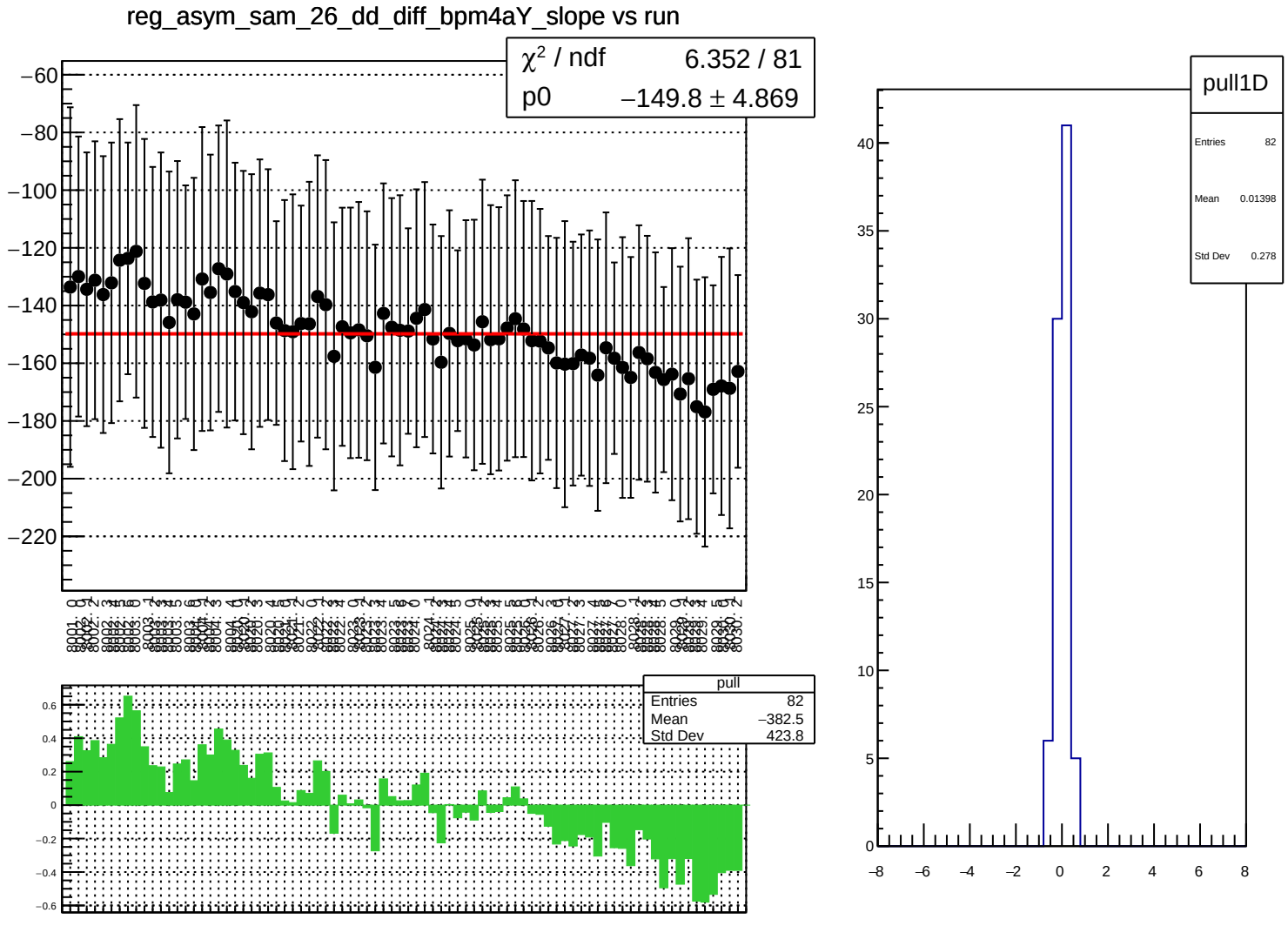

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.251 / 81
p0 −1.118 ± 2.094
pull
Entries 82
Mean −158.5
Std Dev 201.7

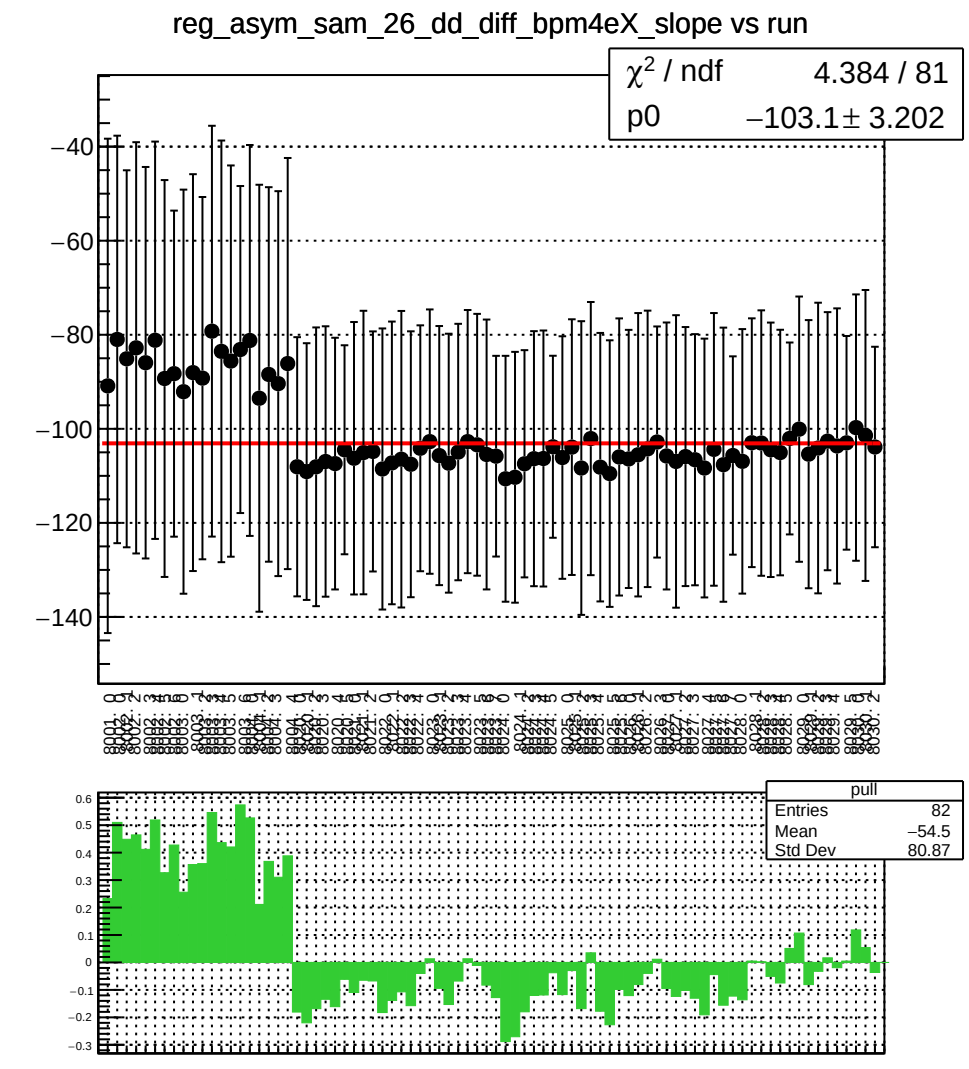

pull1D
Entries 82
Mean −0.01789
Std Dev 0.2968

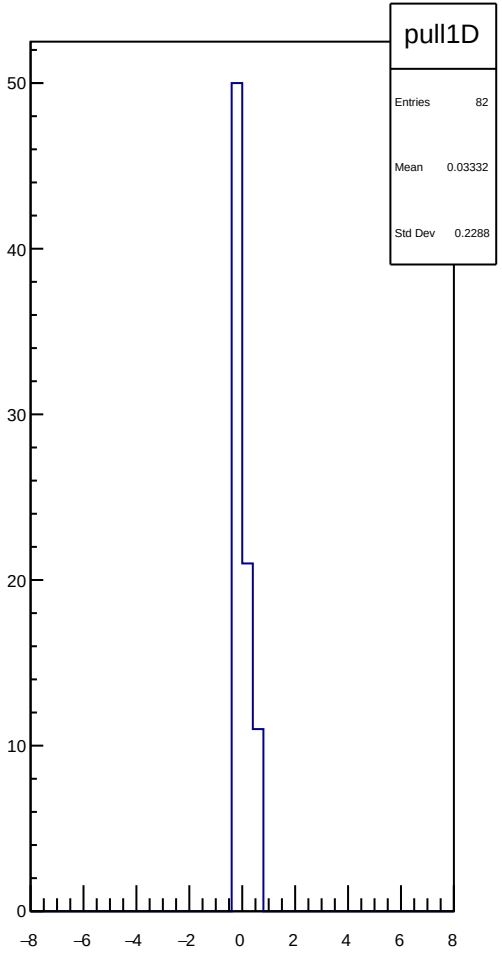

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 153.9 / 81
p0 1.379 ± 0.09964
pull
Entries 82
Mean 125.8
Std Dev 88.07
pull1D
Entries 82
Mean 0.2778
Std Dev 1.342

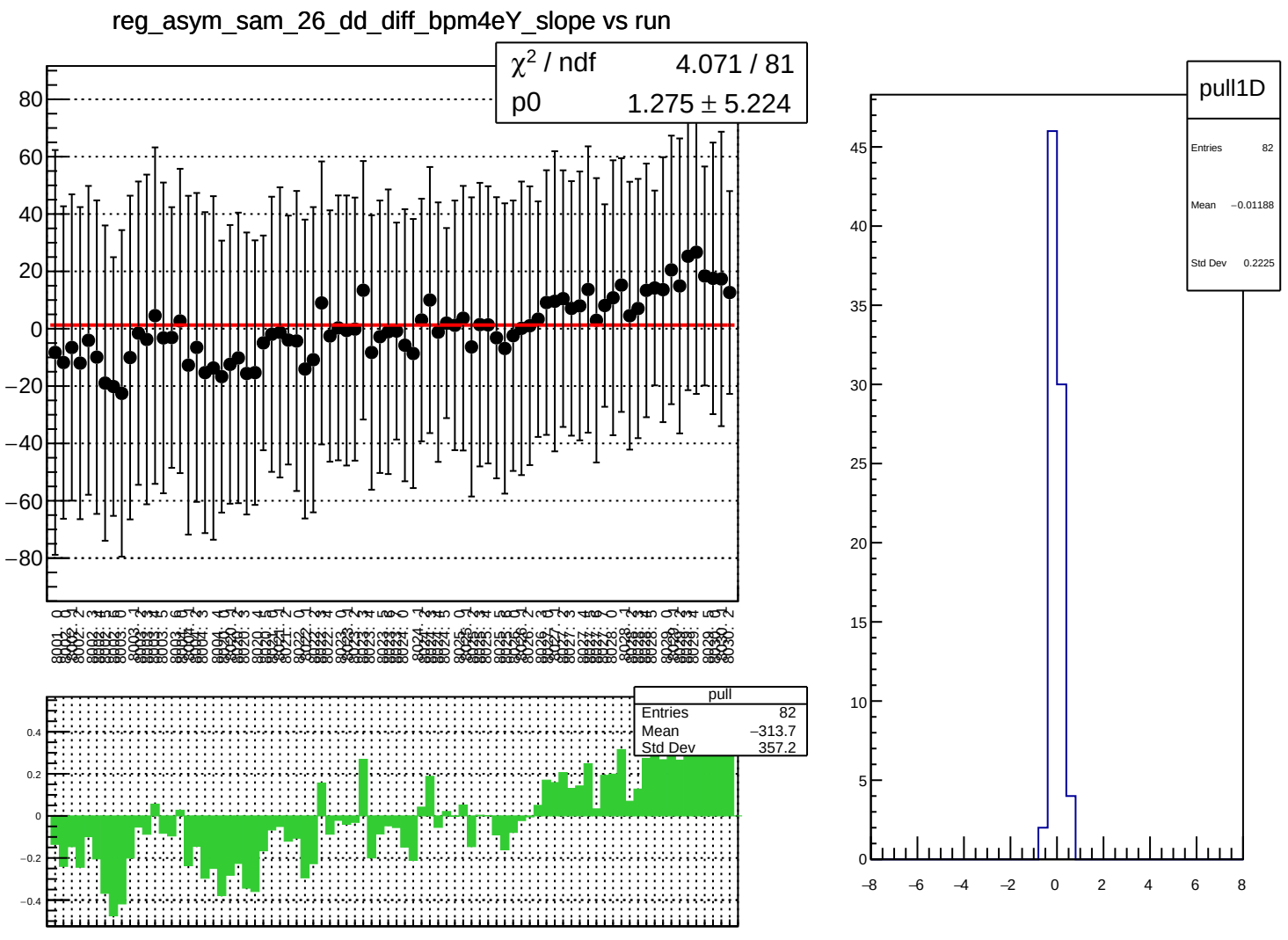

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 6.225 / 81
p0 −27.09 ± 3.057
pull
Entries 82
Mean −35.32
Std Dev 61.65

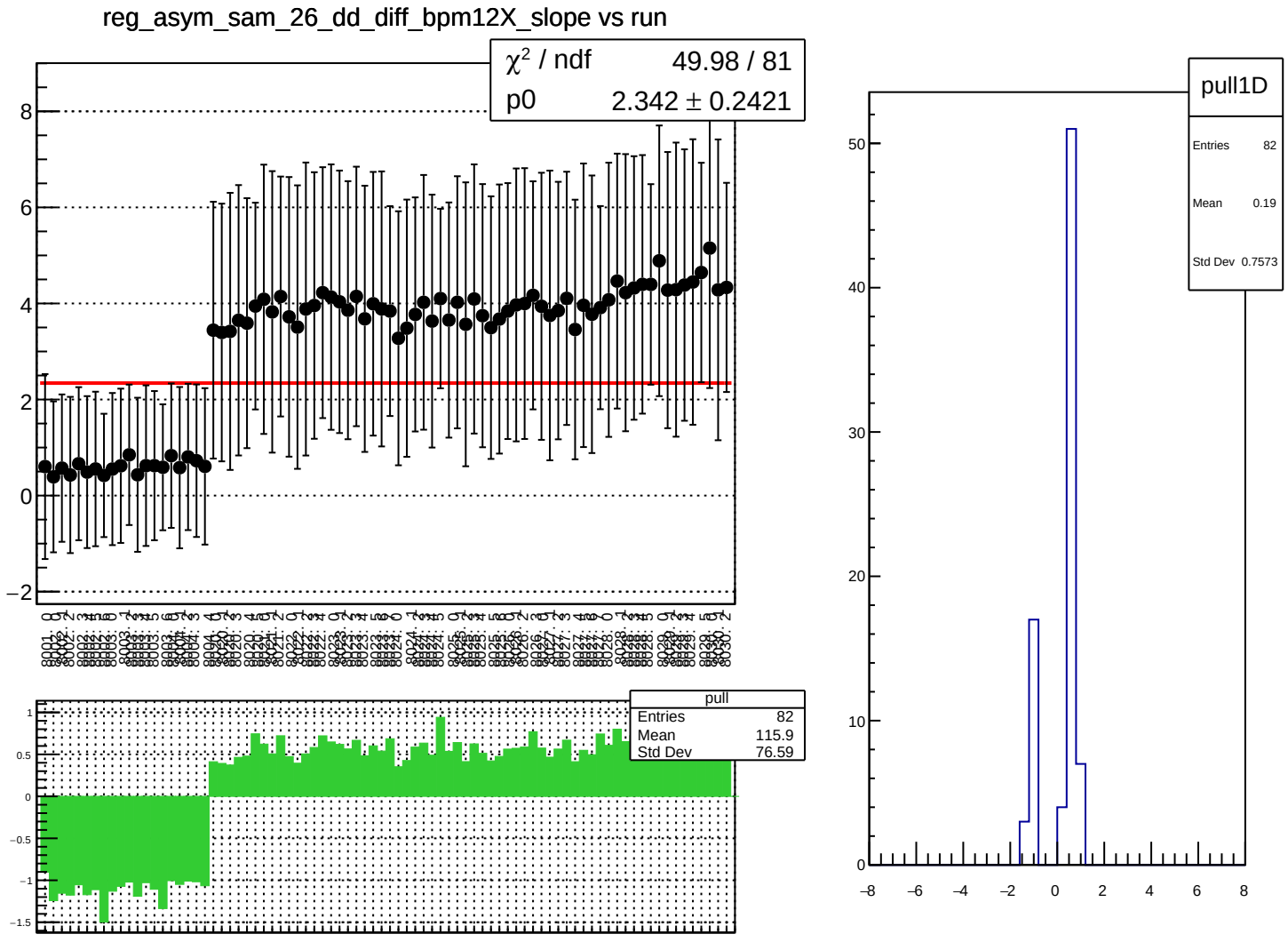

pull1D
Entries 82
Mean −0.05261
Std Dev 0.2705

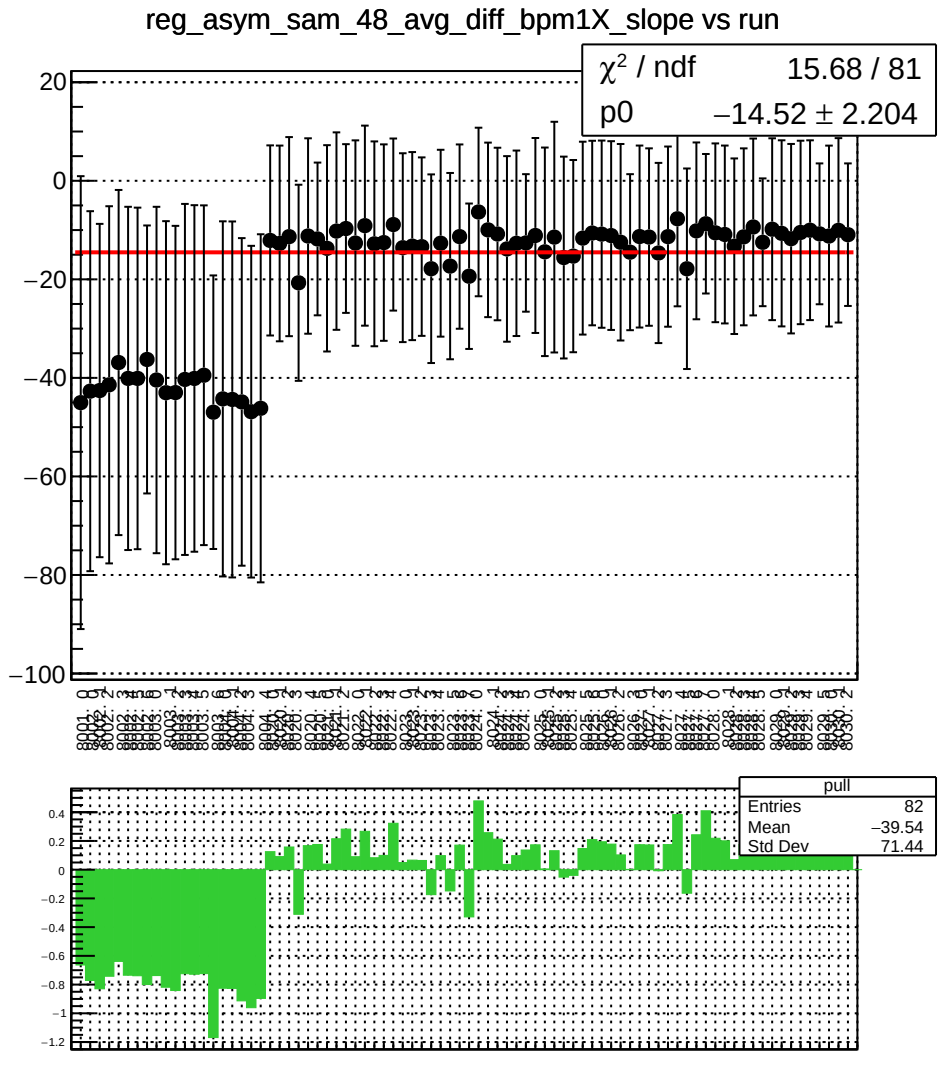

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.352 / 81
p0 −149.8 ± 4.869
pull
Entries 82
Mean −382.5
Std Dev 423.8
pull1D
Entries 82
Mean 0.01398
Std Dev 0.278

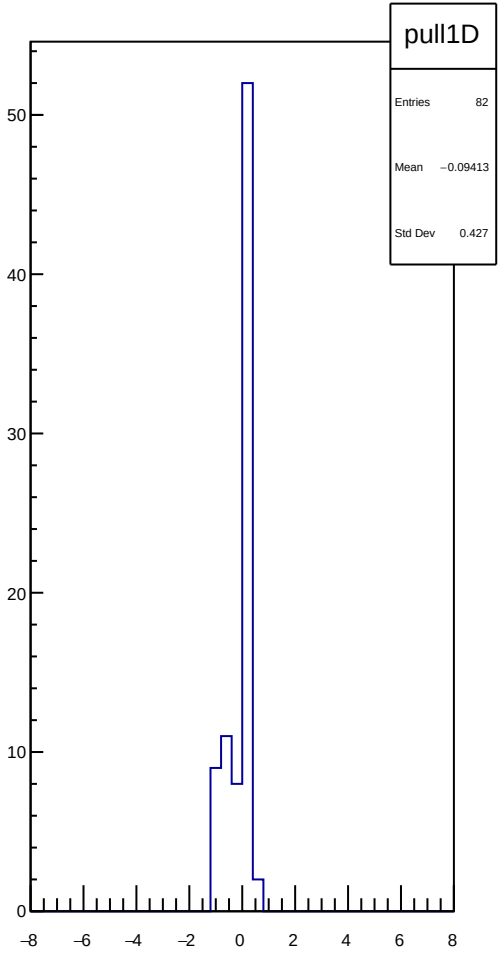

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.384 / 81
p0 −103.1± 3.202
−40
−60
−80
−100
−120
−140
pull
Entries 82
Mean −54.5
Std Dev 80.87
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

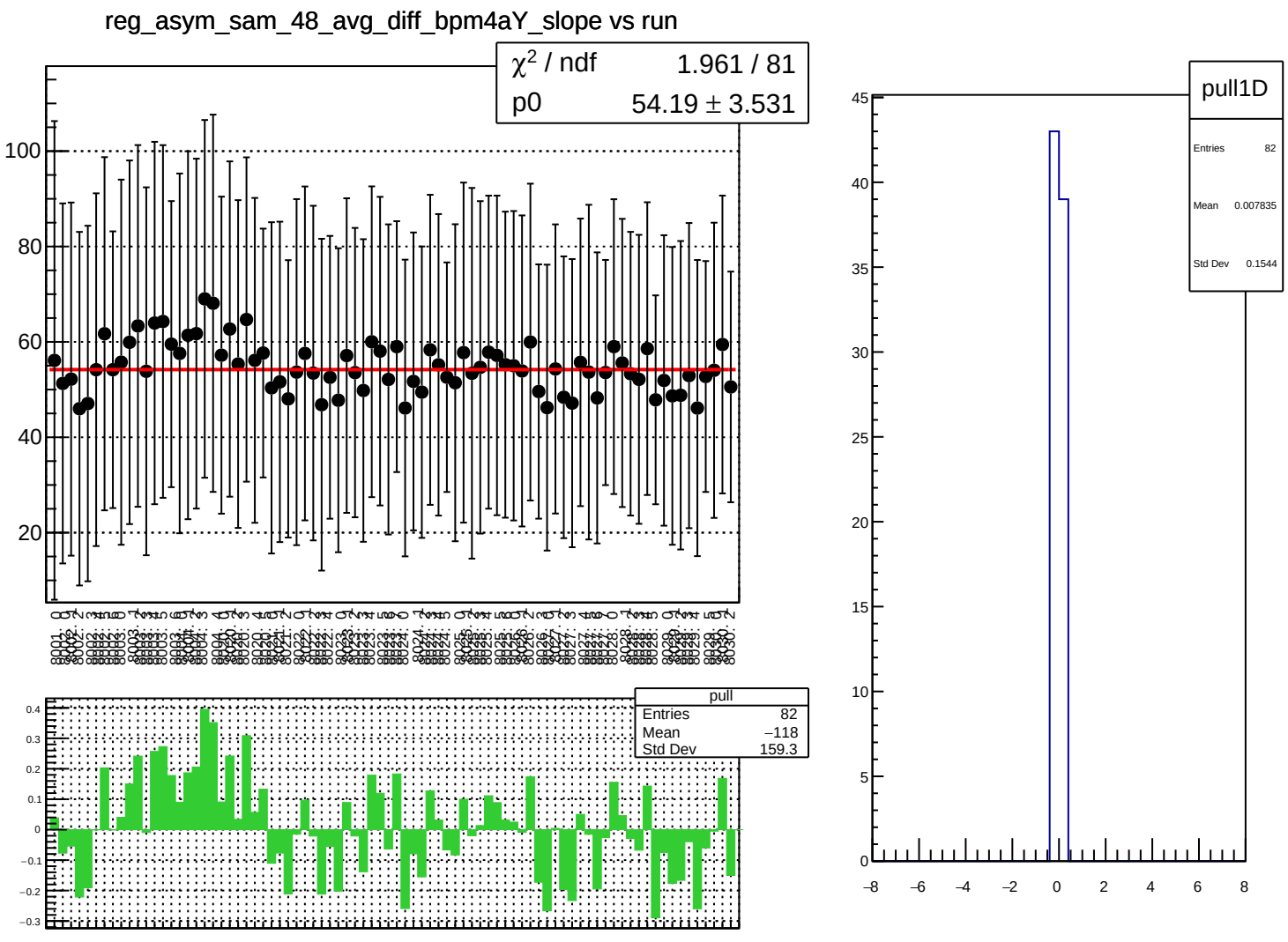

pull1D
Entries 82
Mean 0.03332
Std Dev 0.2288
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

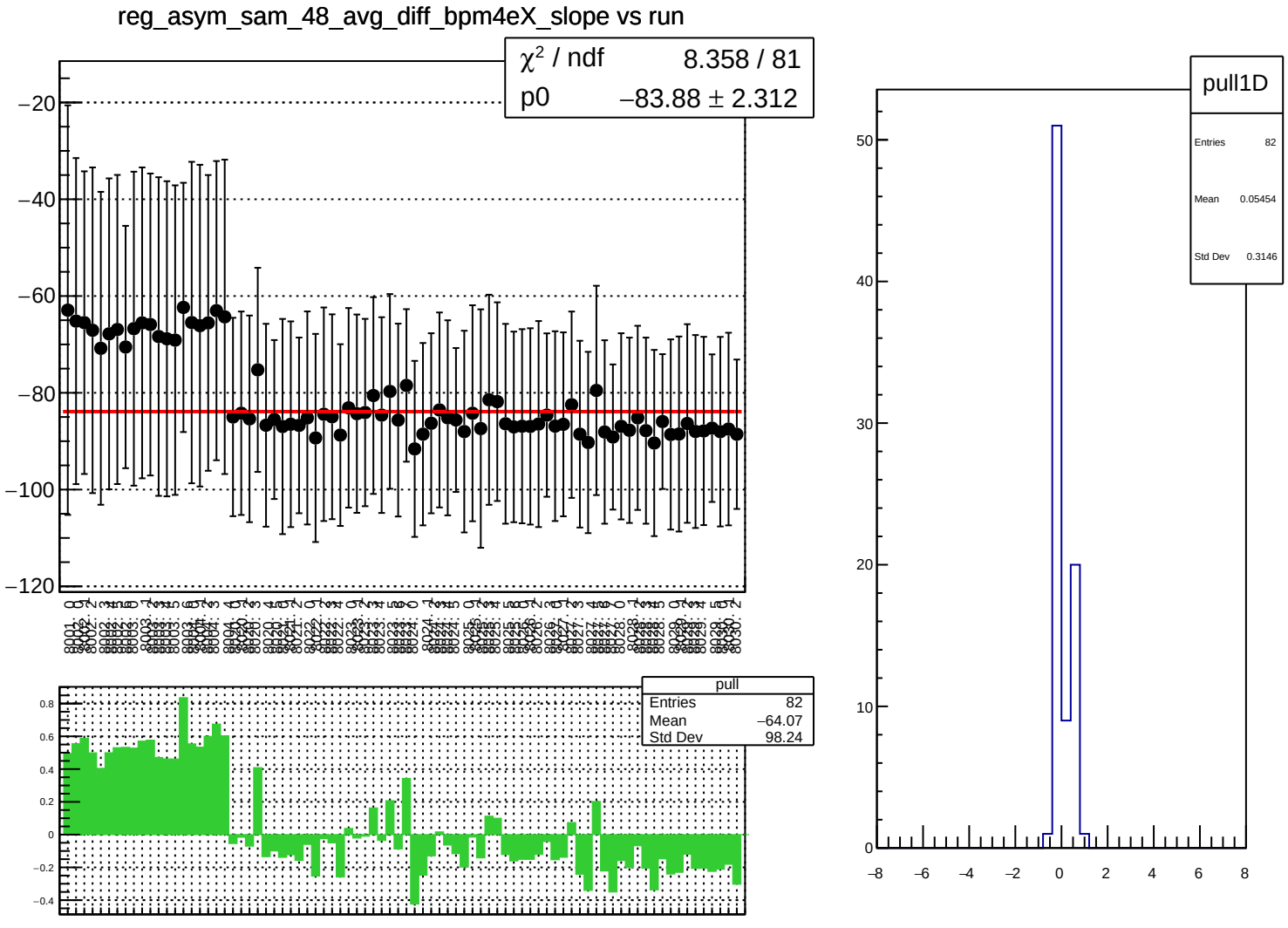

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.071 / 81
p0 1.275 ± 5.224
pull
Entries 82
Mean −313.7
Std Dev 357.2
pull1D
Entries 82
Mean −0.01188
Std Dev 0.2225

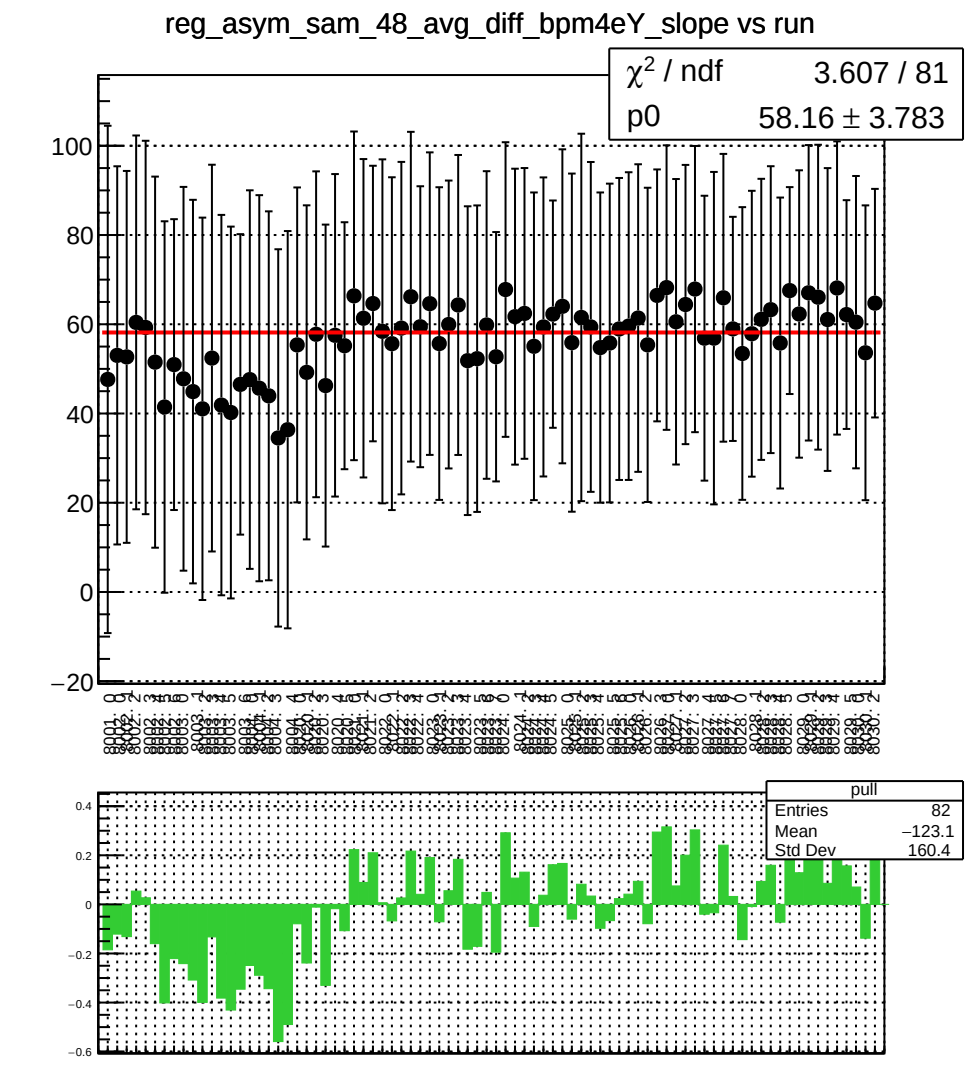

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 49.98 / 81
p0 2.342 ± 0.2421
pull
Entries 82
Mean 115.9
Std Dev 76.59
pull1D
Entries 82
Mean 0.19
Std Dev 0.7573

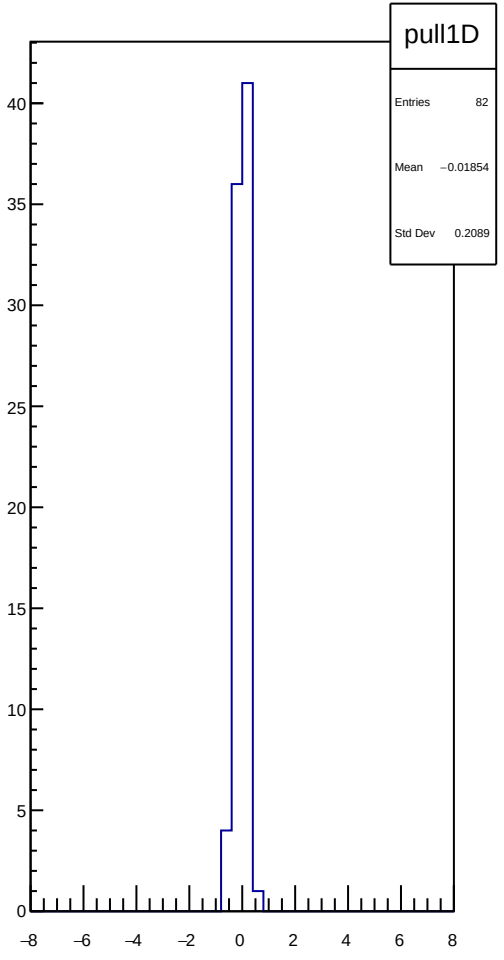

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 15.68 / 81
p0 −14.52 ± 2.204
pull
Entries 82
Mean −39.54
Std Dev 71.44

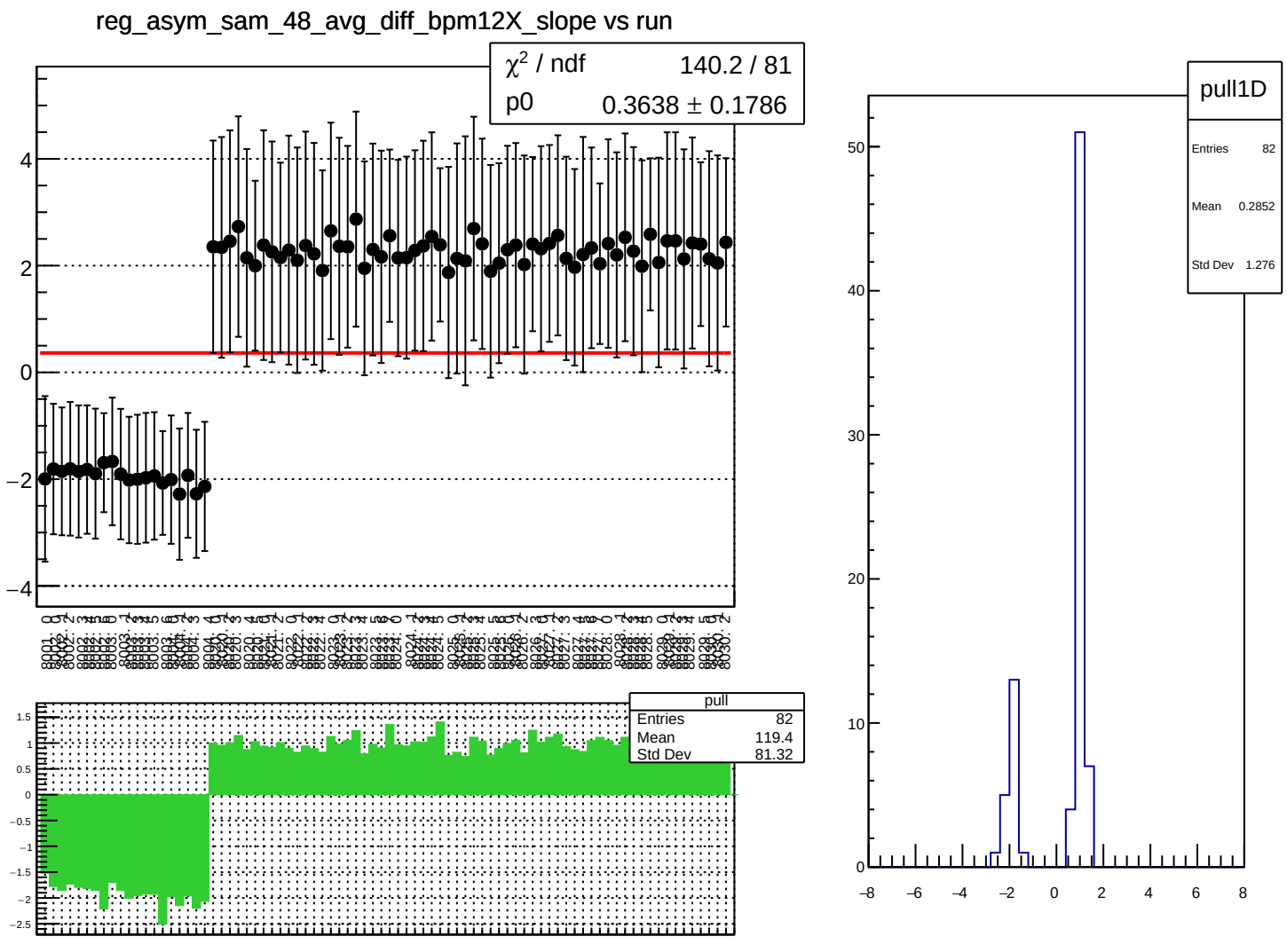

pull1D
Entries 82
Mean −0.09413
Std Dev 0.427

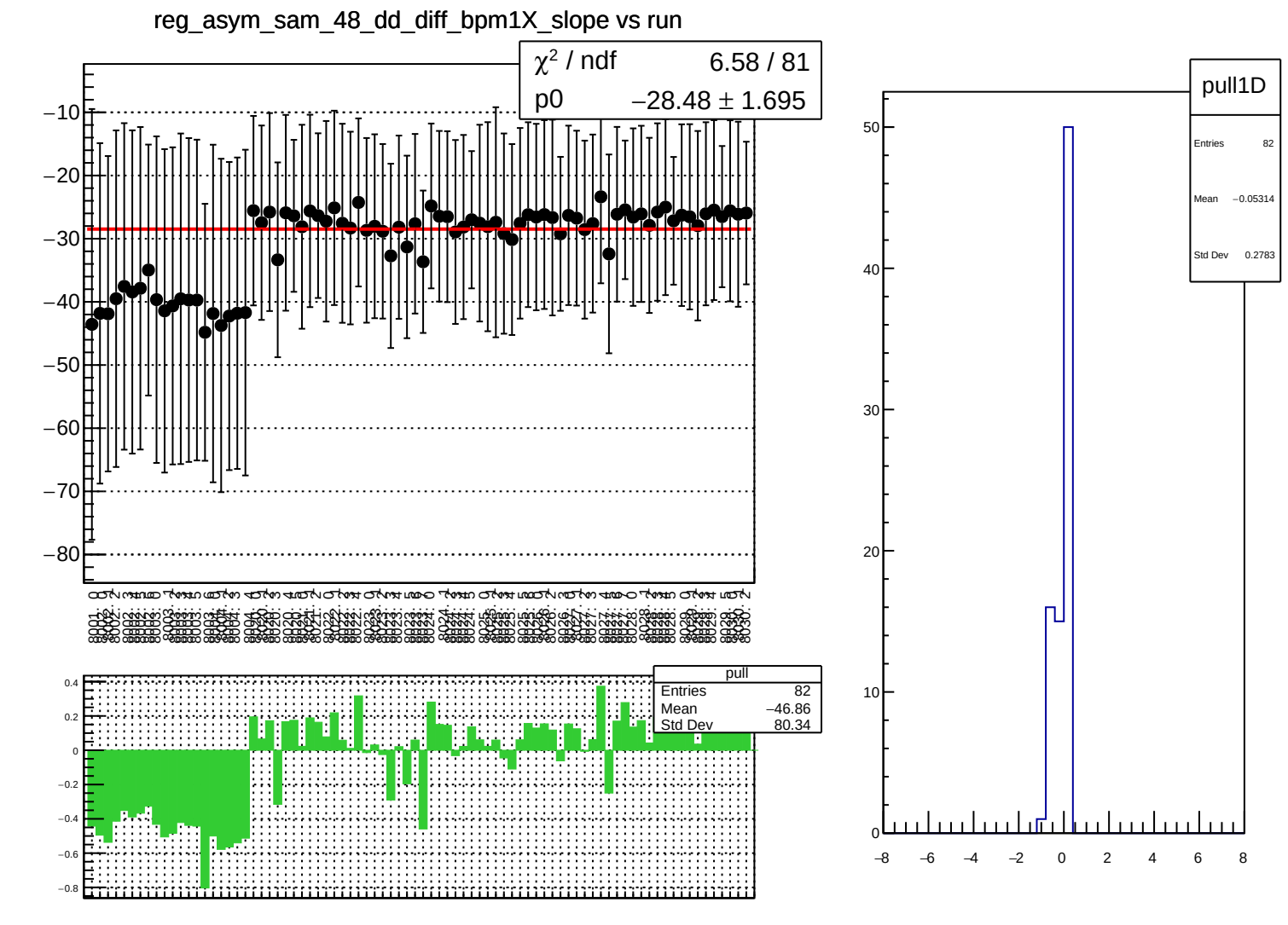

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.961 / 81
p0 54.19 ± 3.531
pull
Entries 82
Mean −118
Std Dev 159.3
pull1D
Entries 82
Mean 0.007835
Std Dev 0.1544

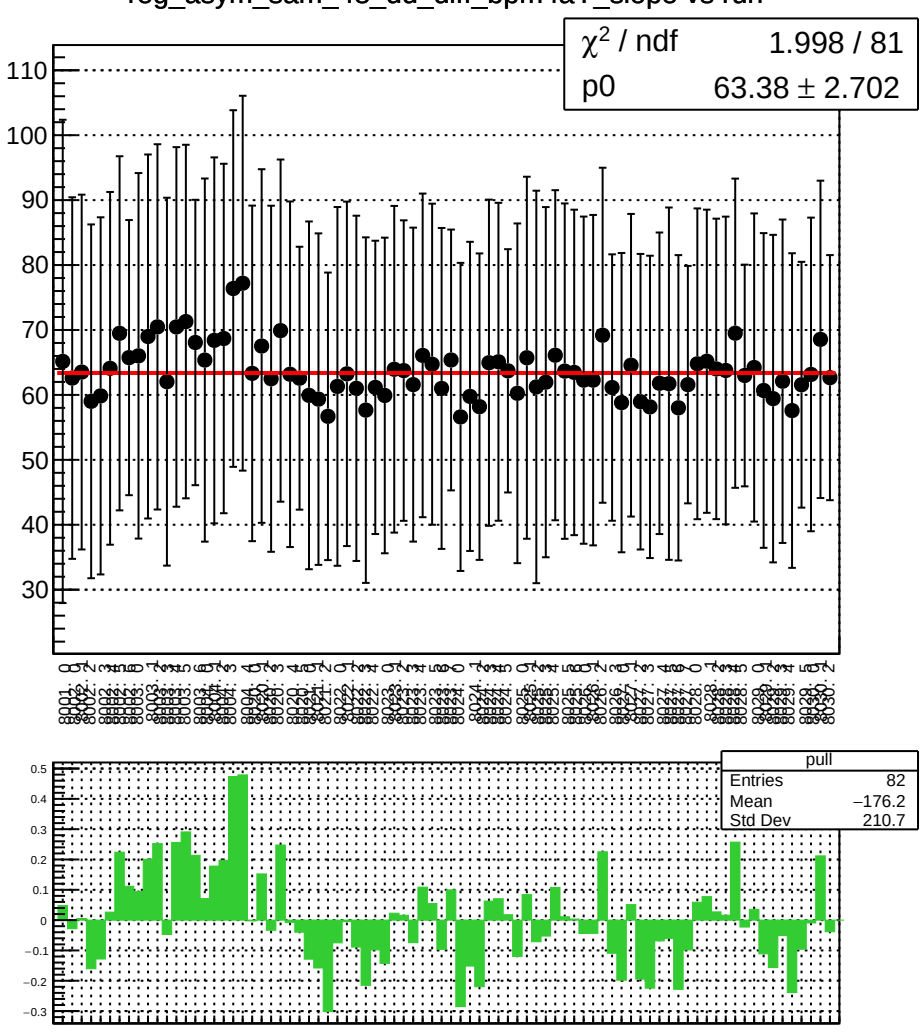

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.358 / 81
p0 −83.88 ± 2.312
pull
Entries 82
Mean −64.07
Std Dev 98.24
pull1D
Entries 82
Mean 0.05454
Std Dev 0.3146

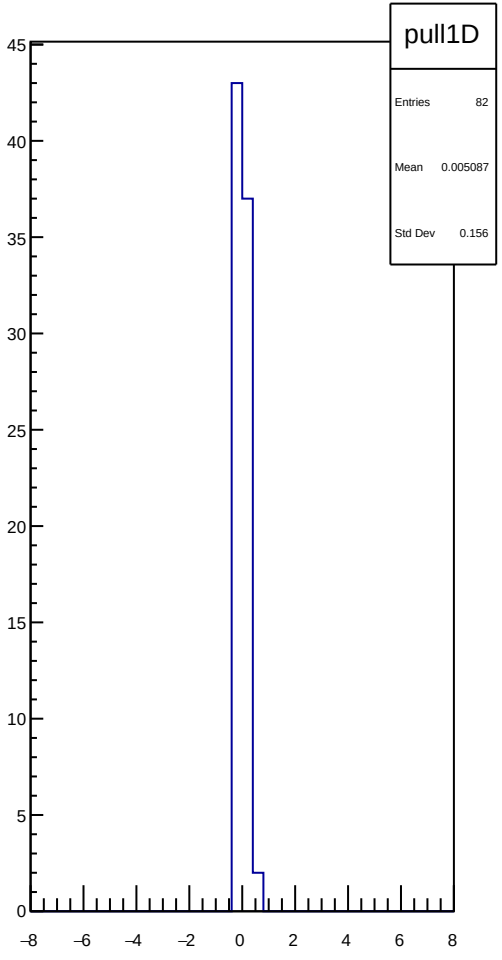

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.607 / 81
p0 58.16 ± 3.783
pull
Entries 82
Mean −123.1
Std Dev 160.4

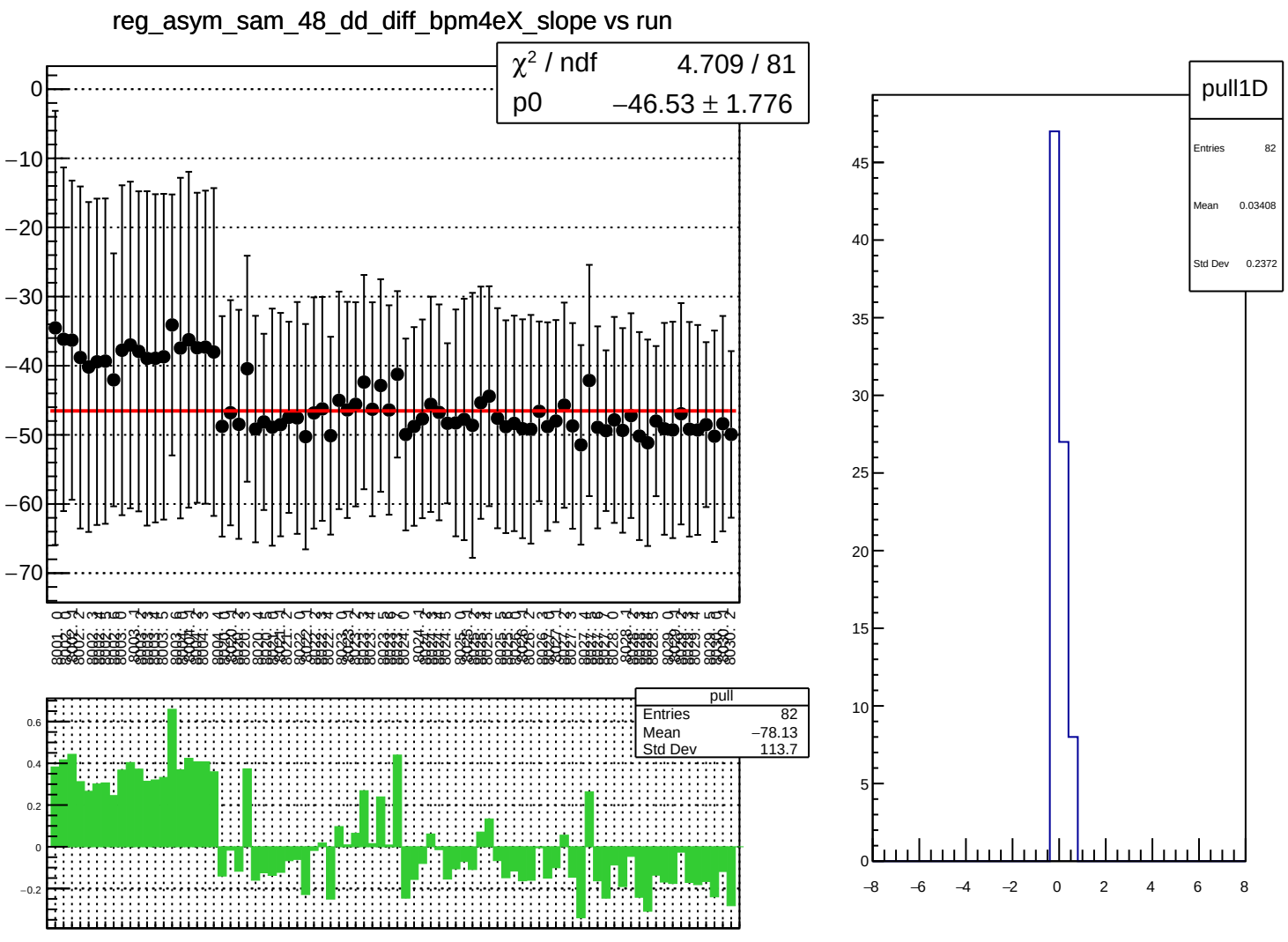

pull1D
Entries 82
Mean −0.01854
Std Dev 0.2089

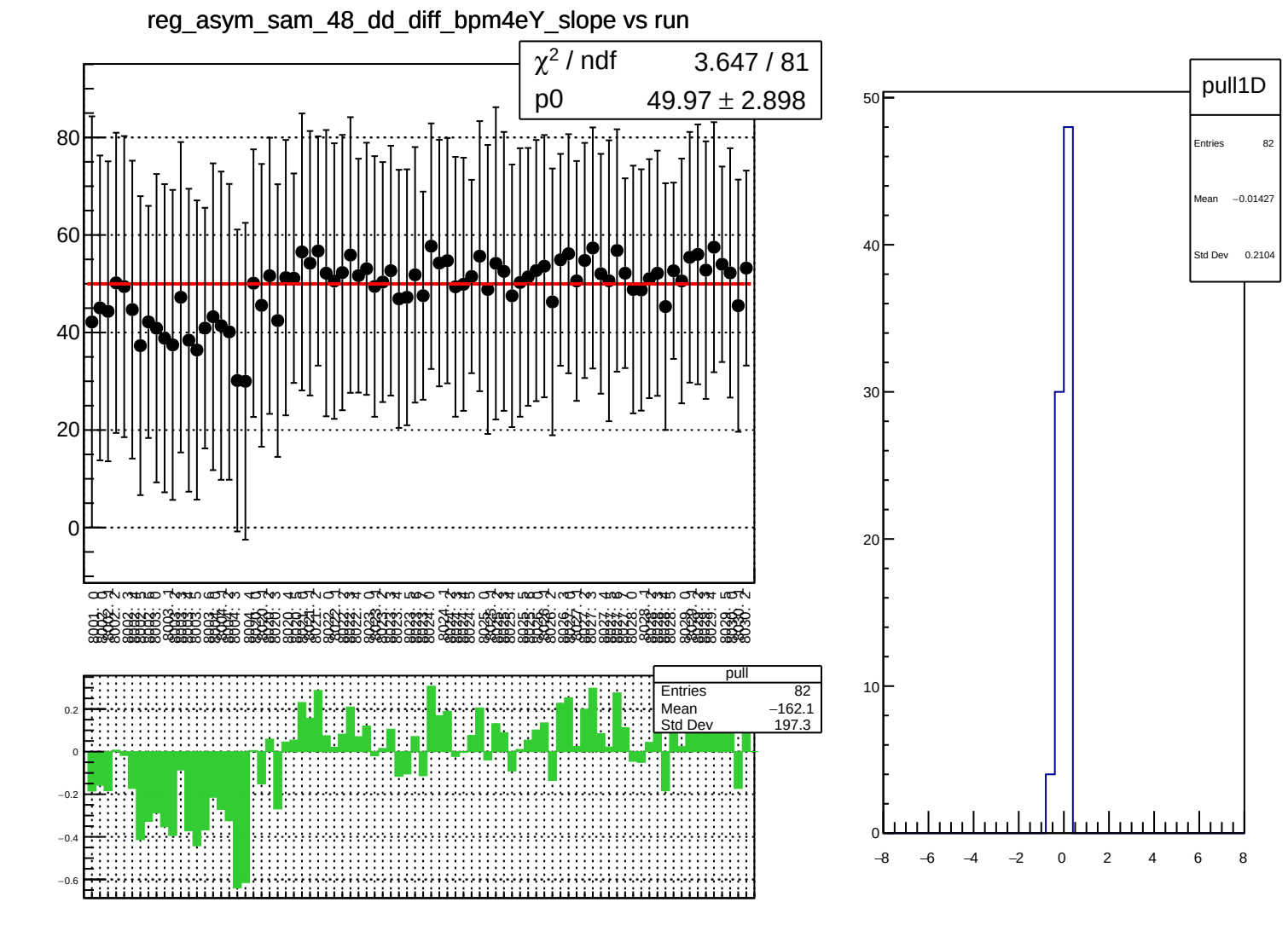

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 140.2 / 81
p0 0.3638 ± 0.1786
pull
Entries 82
Mean 119.4
Std Dev 81.32
pull1D
Entries 82
Mean 0.2852
Std Dev 1.276

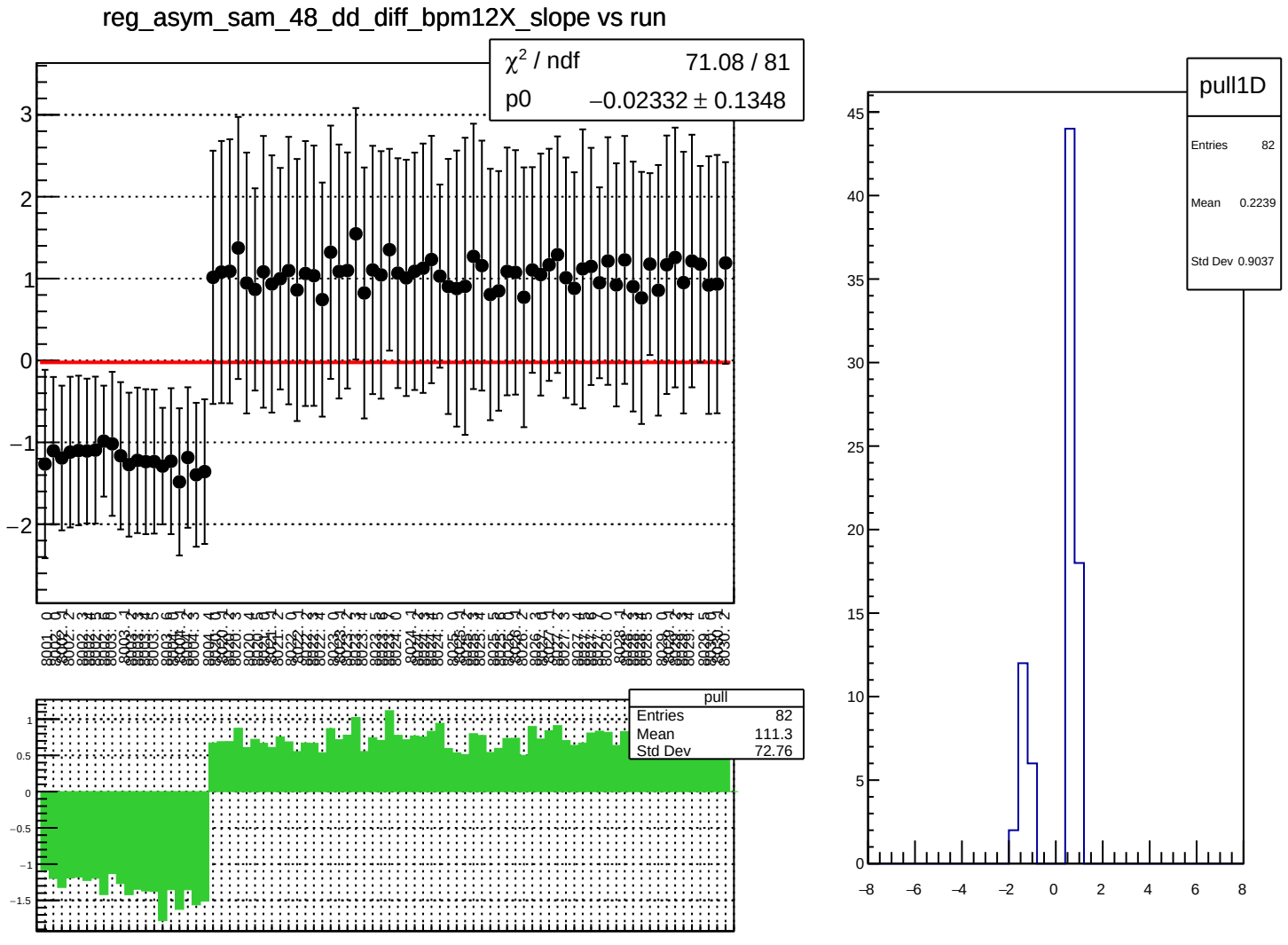

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.58 / 81
p0 −28.48 ± 1.695
pull
Entries 82
Mean −46.86
Std Dev 80.34
pull1D
Entries 82
Mean −0.05314
Std Dev 0.2783

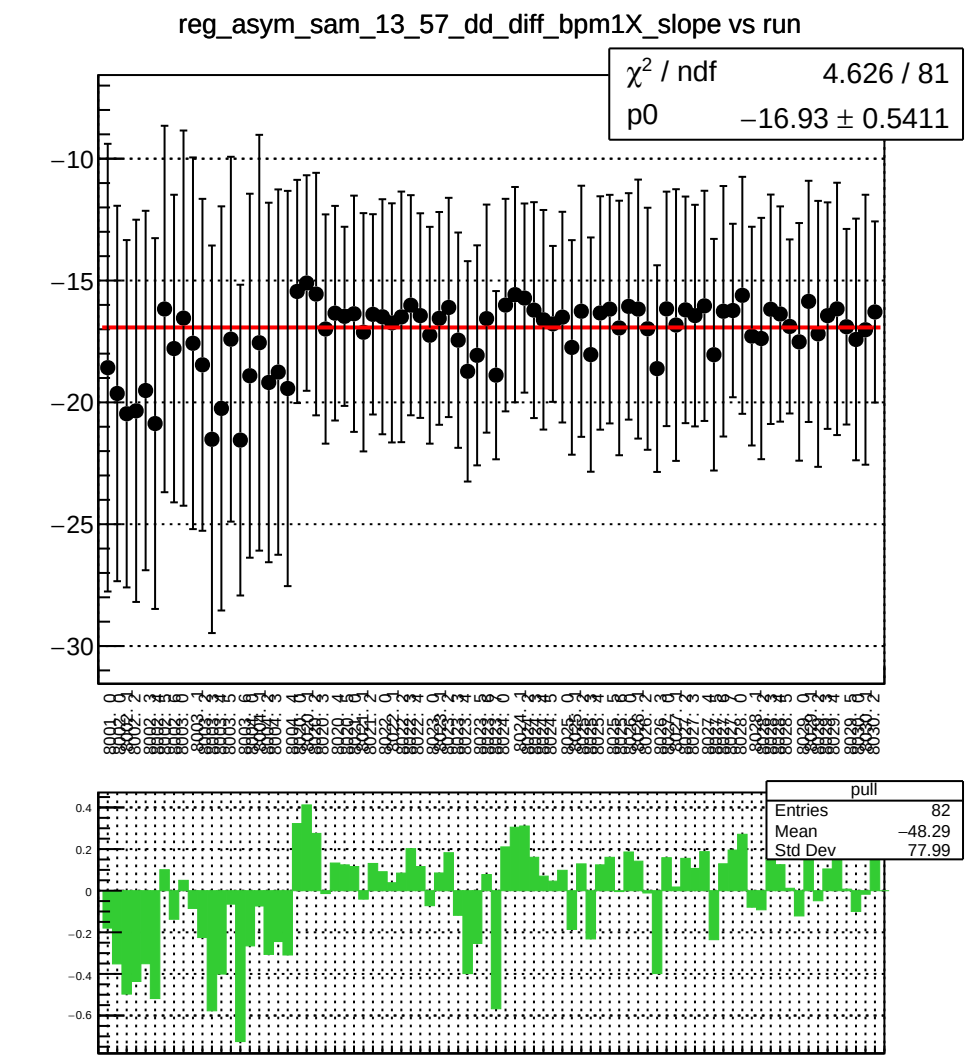

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.998 / 81
p0 63.38 ± 2.702
pull
Entries 82
Mean −176.2
Std Dev 210.7

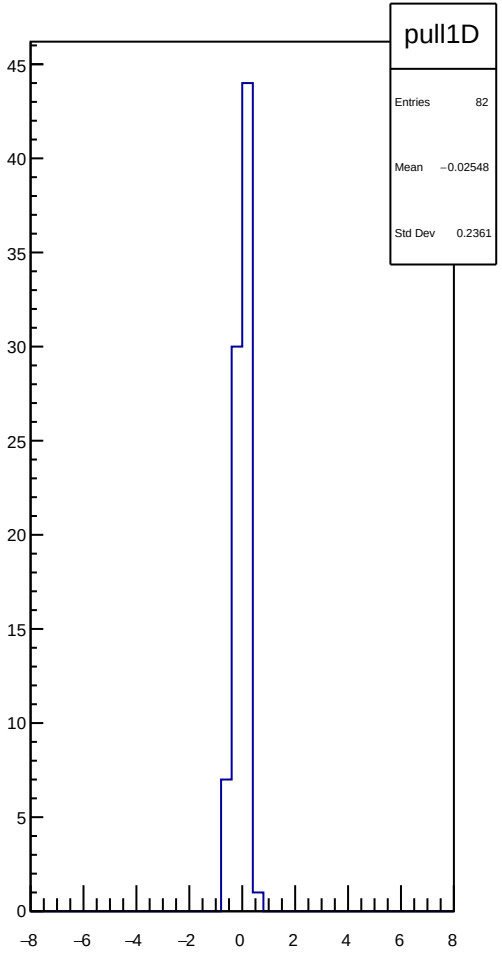

pull1D
Entries 82
Mean 0.005087
Std Dev 0.156

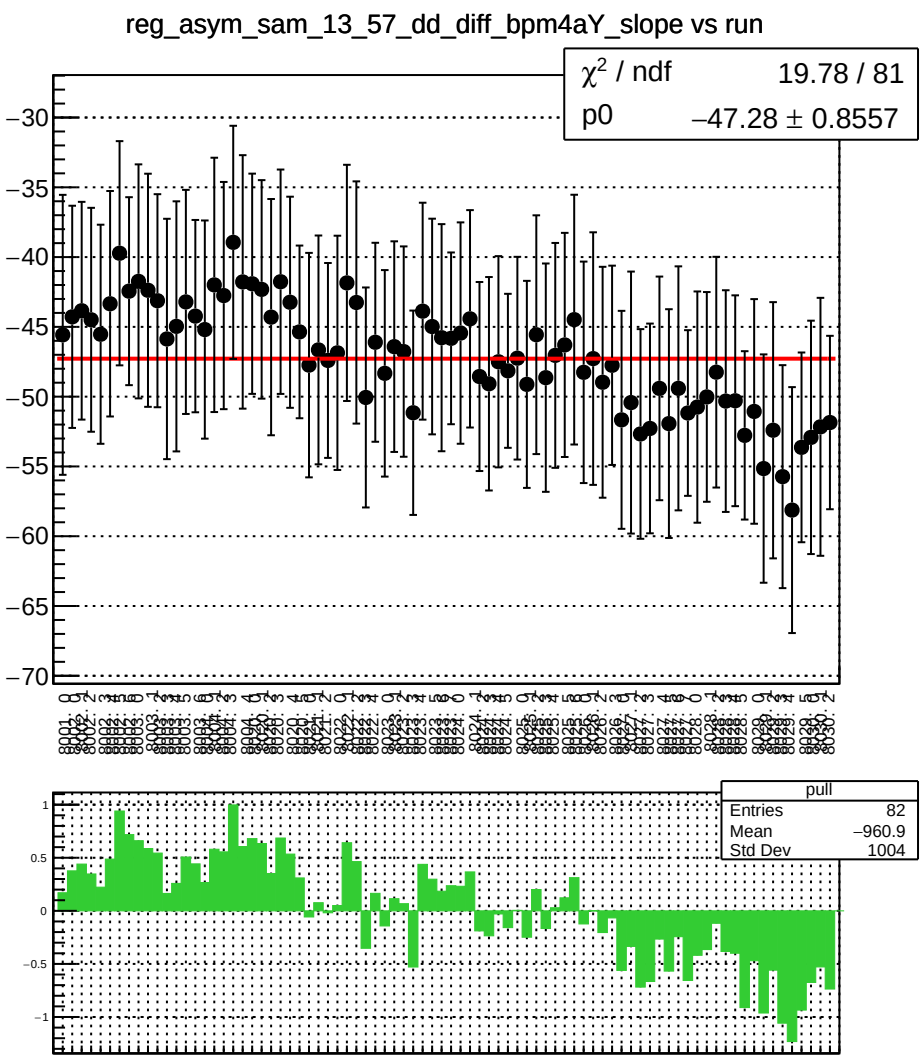

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.709 / 81
p0 −46.53 ± 1.776
pull
Entries 82
Mean −78.13
Std Dev 113.7
pull1D
Entries 82
Mean 0.03408
Std Dev 0.2372

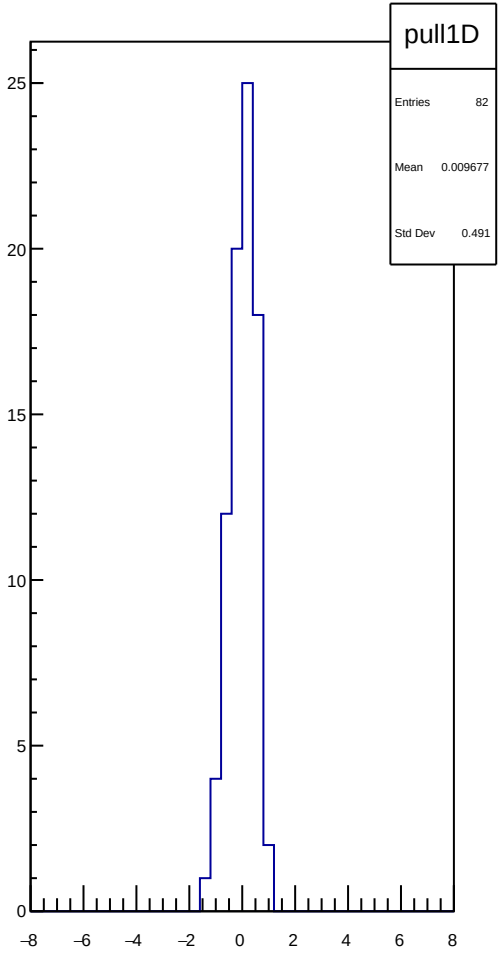

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.647 / 81
p0 49.97 ± 2.898
pull
Entries 82
Mean −162.1
Std Dev 197.3
pull1D
Entries 82
Mean −0.01427
Std Dev 0.2104

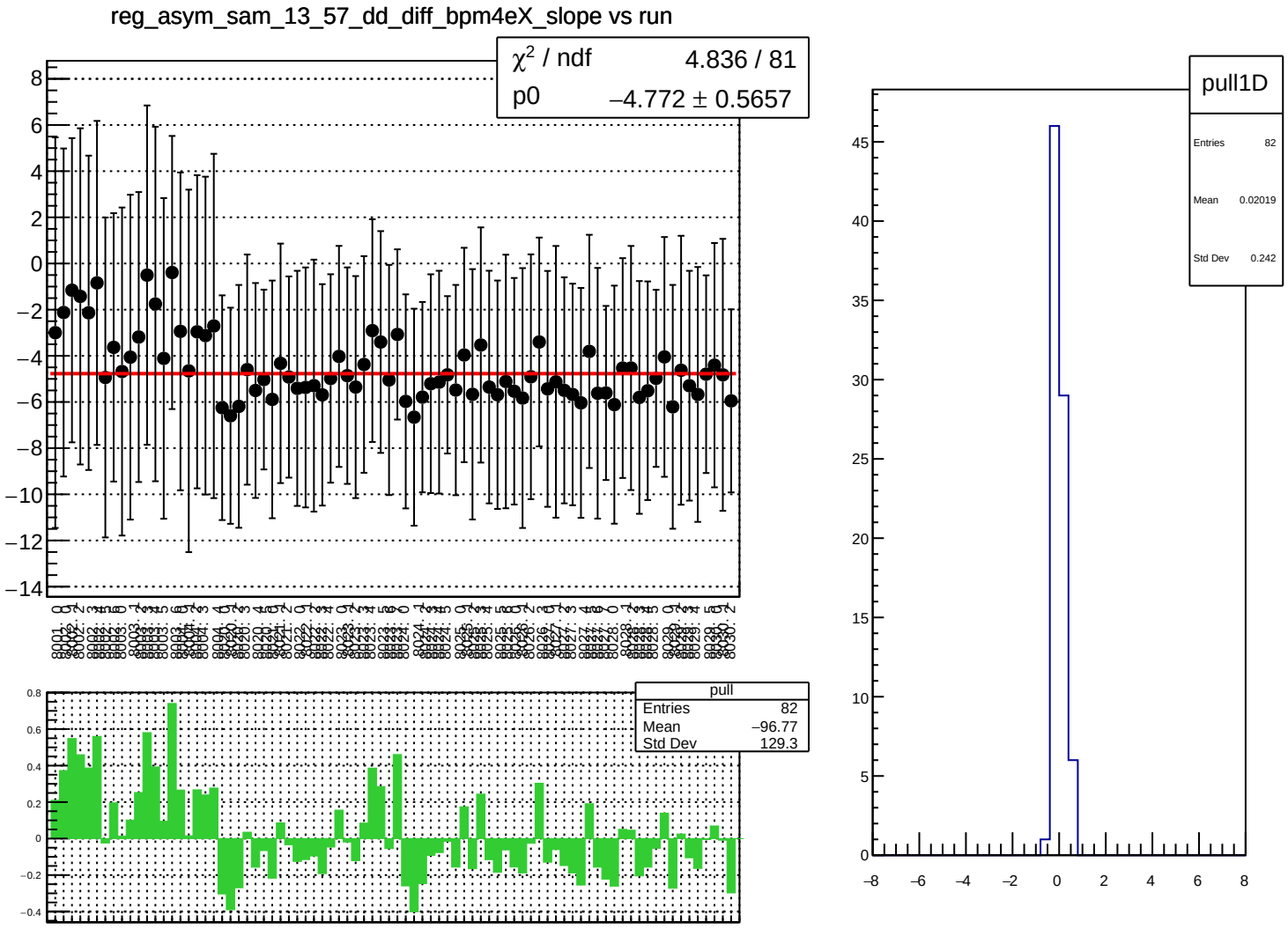

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 71.08 / 81
p0 −0.02332 ± 0.1348
pull
Entries 82
Mean 111.3
Std Dev 72.76
pull1D
Entries 82
Mean 0.2239
Std Dev 0.9037

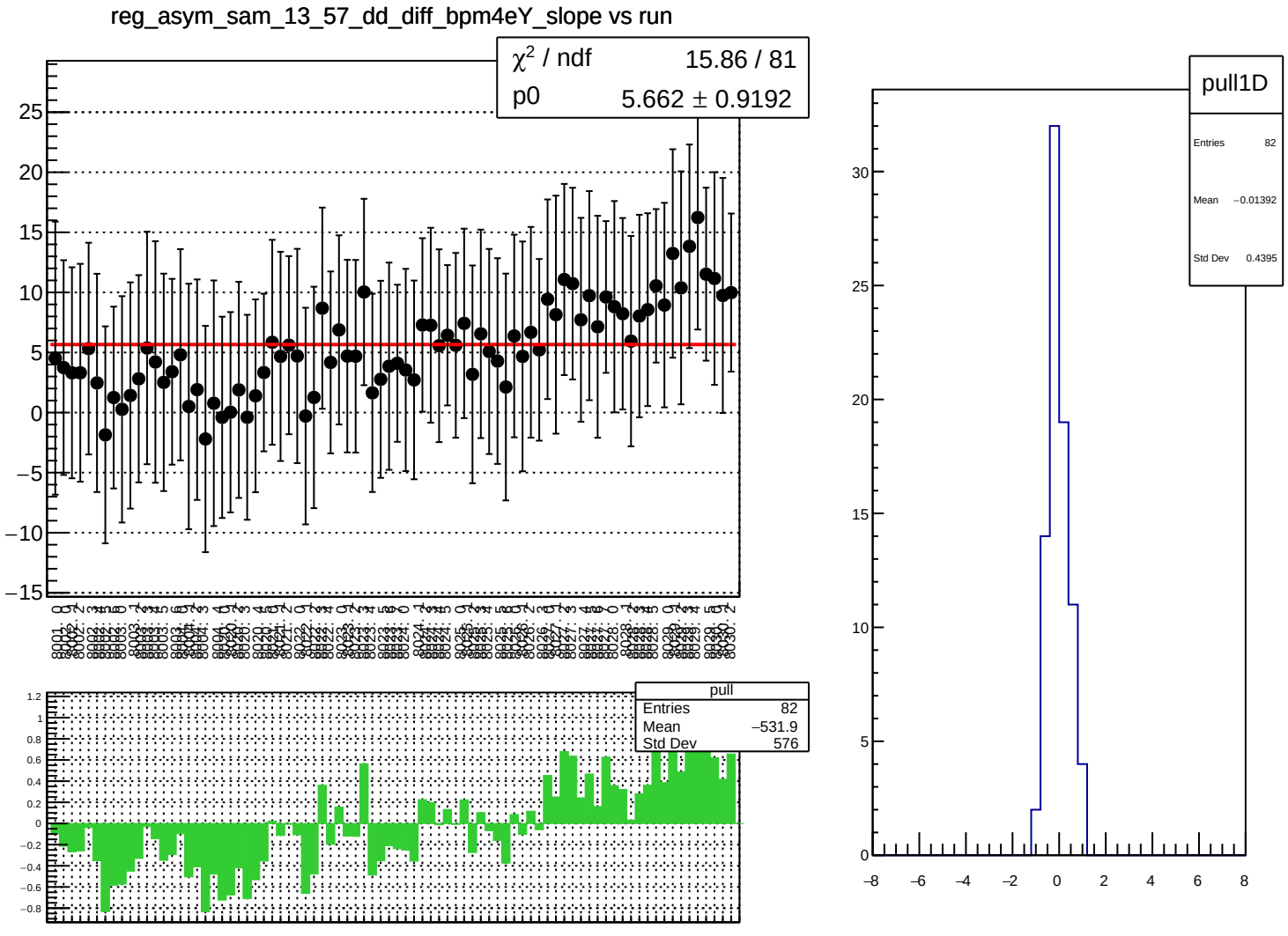

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 4.626 / 81
p0 −16.93 ± 0.5411
pull
Entries 82
Mean −48.29
Std Dev 77.99

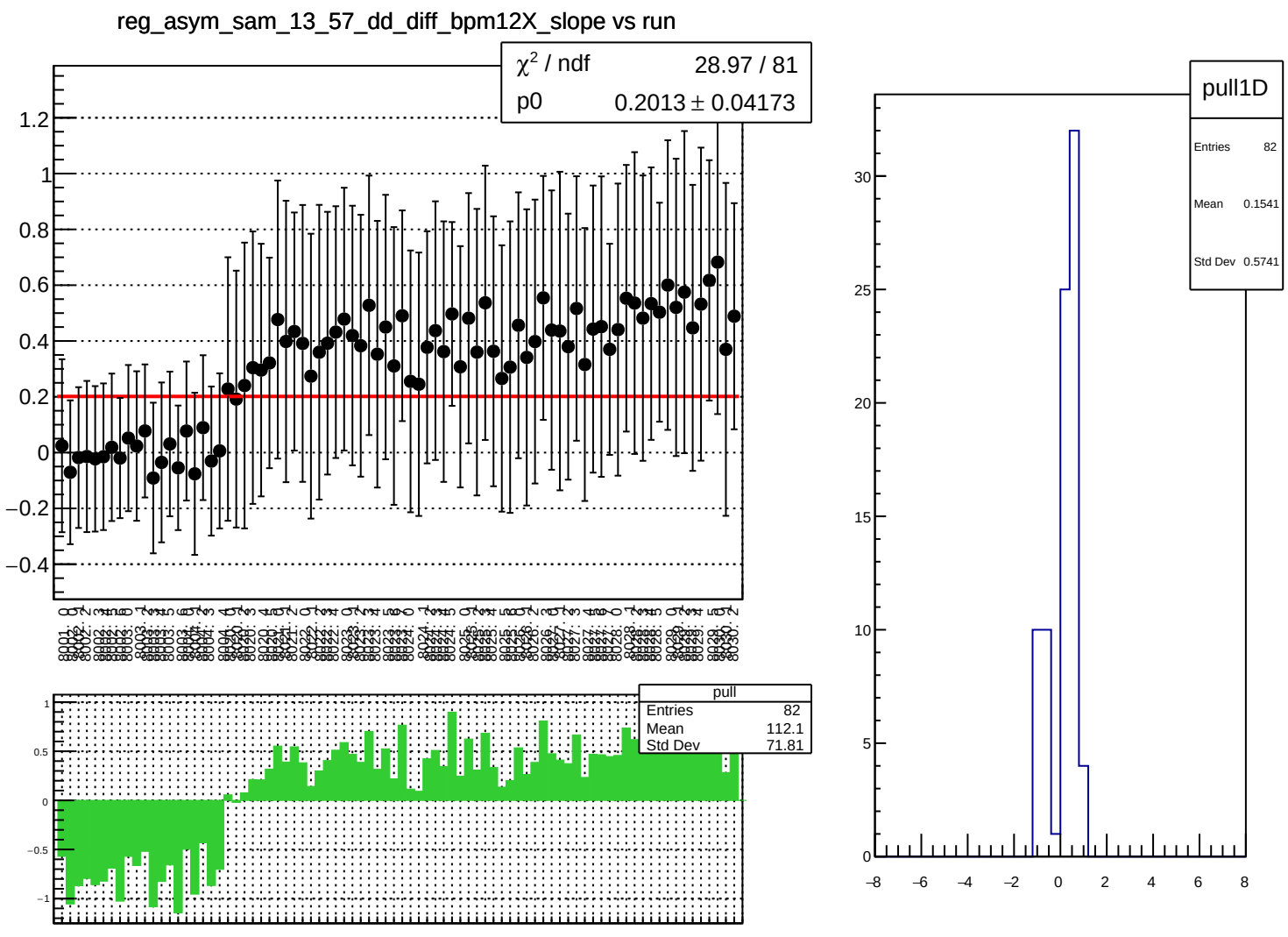

pull1D
Entries 82
Mean −0.02548
Std Dev 0.2361

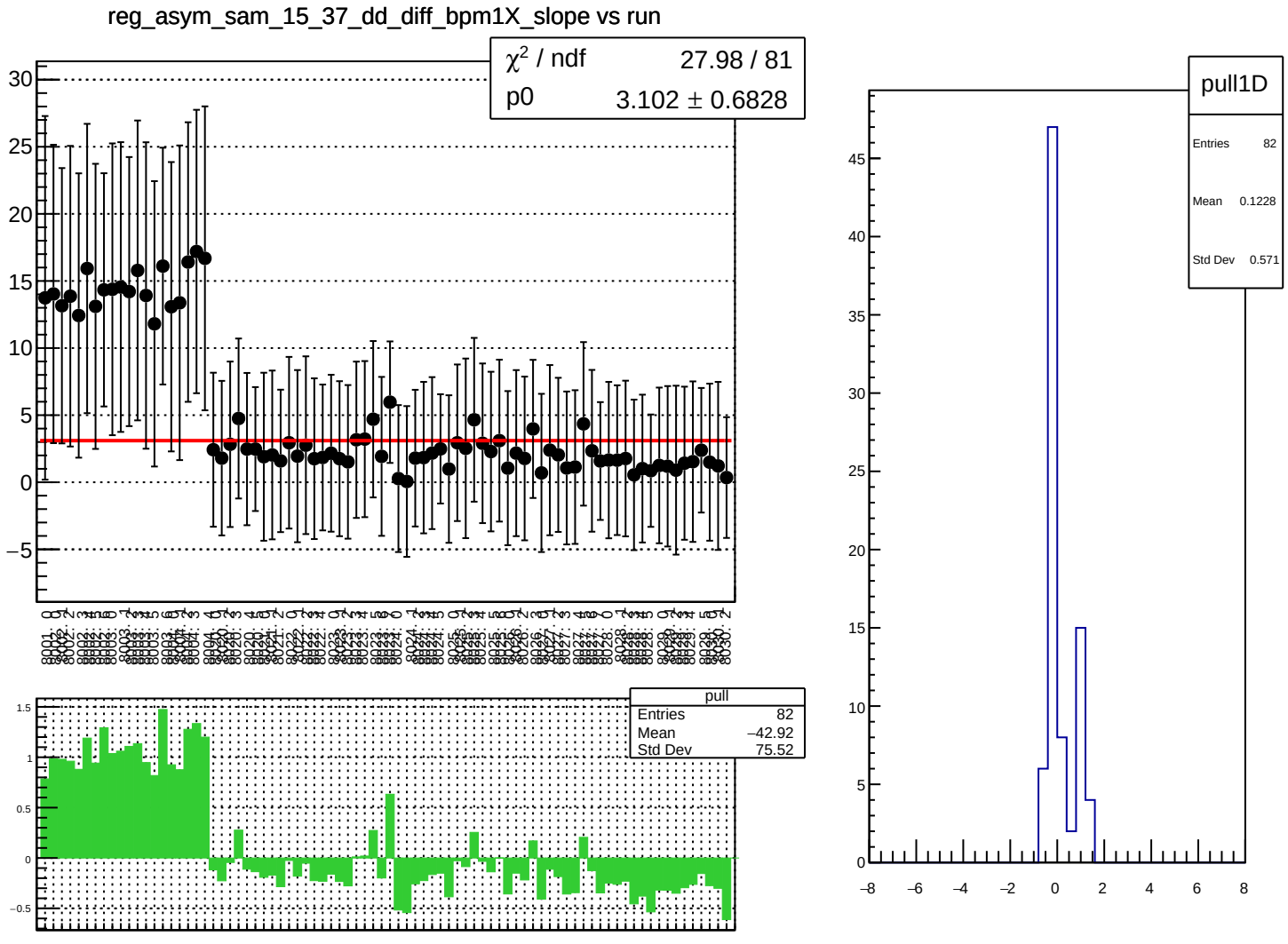

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.78 / 81
p0 −47.28 ± 0.8557
pull
Entries 82
Mean −960.9
Std Dev 1004

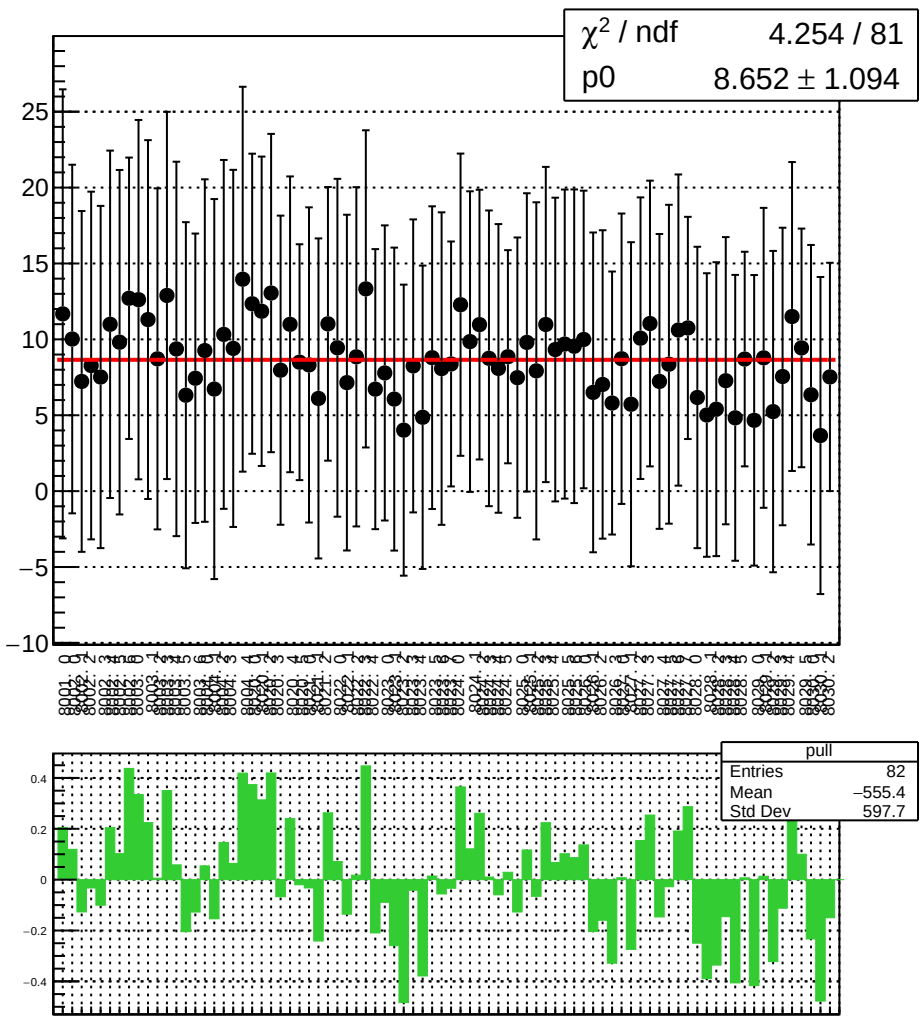

pull1D
Entries 82
Mean 0.009677
Std Dev 0.491

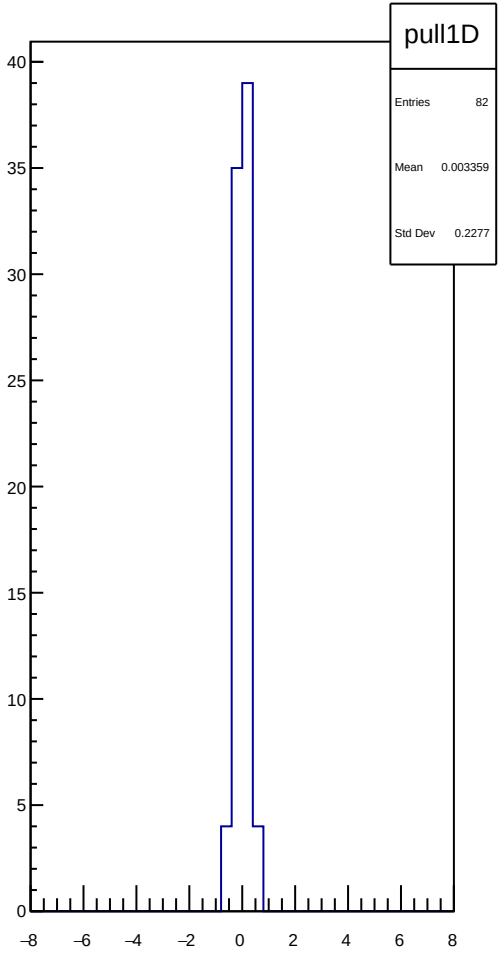

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.836 / 81
p0 −4.772 ± 0.5657
pull
Entries 82
Mean −96.77
Std Dev 129.3
pull1D
Entries 82
Mean 0.02019
Std Dev 0.242

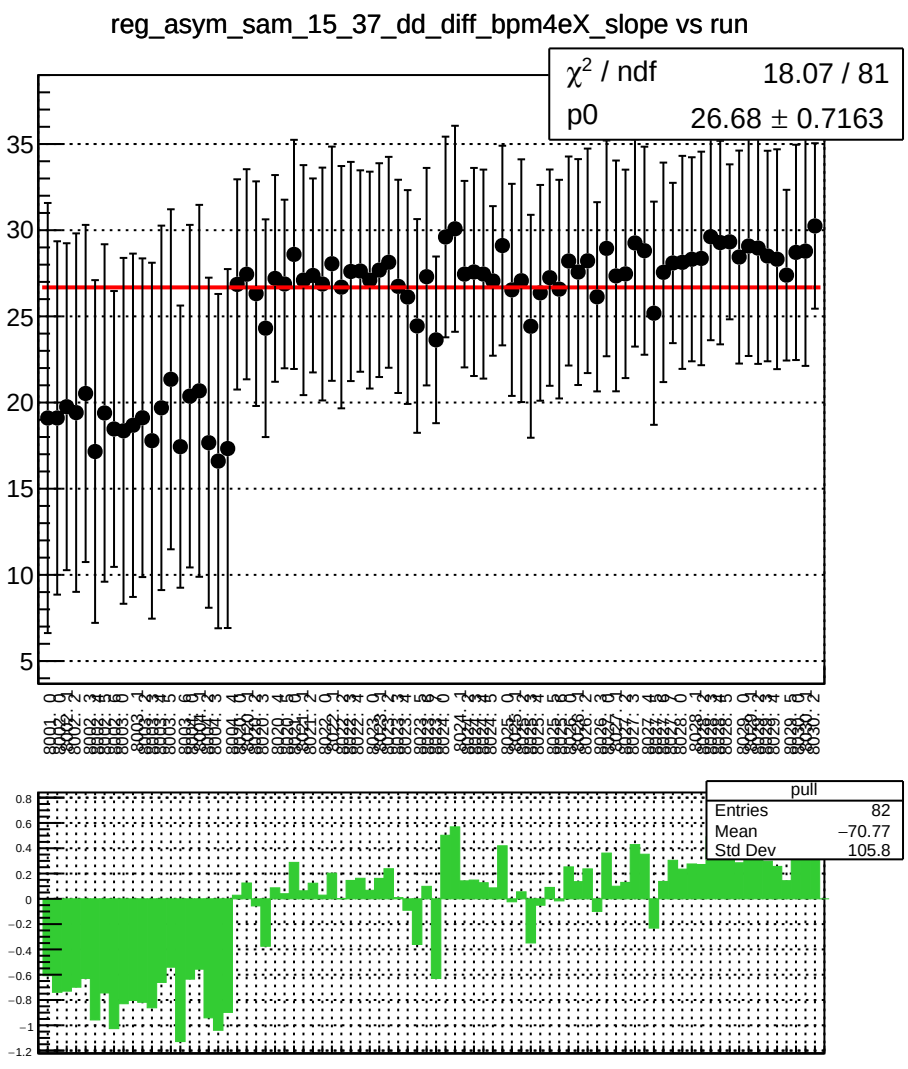

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.86 / 81
p0 5.662 ± 0.9192
pull
Entries 82
Mean −531.9
Std Dev 576
pull1D
Entries 82
Mean −0.01392
Std Dev 0.4395

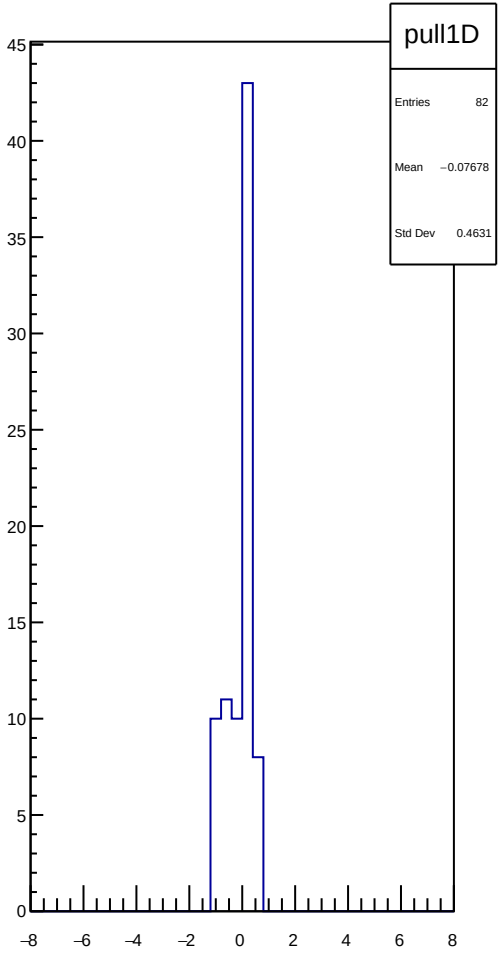

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 28.97 / 81
p0 0.2013 ± 0.04173
pull
Entries 82
Mean 112.1
Std Dev 71.81
pull1D
Entries 82
Mean 0.1541
Std Dev 0.5741

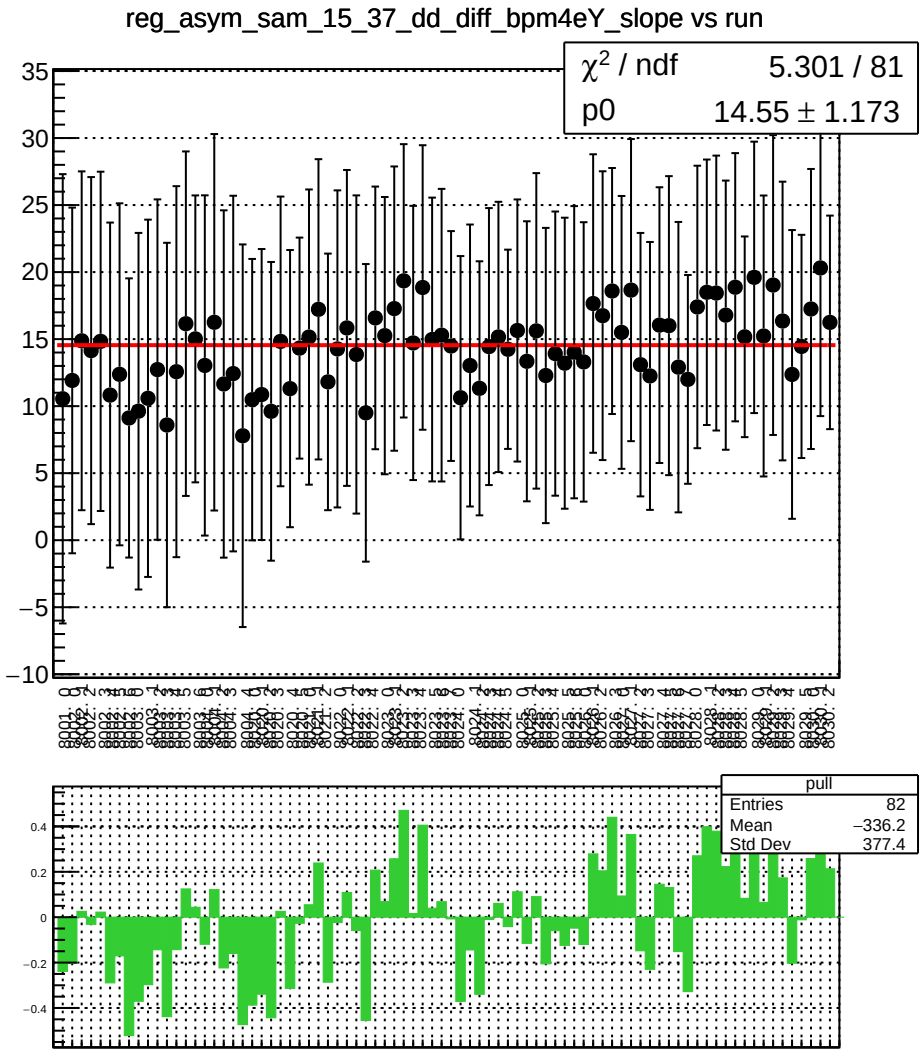

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 27.98 / 81
p0 3.102 ± 0.6828
pull
Entries 82
Mean −42.92
Std Dev 75.52
pull1D
Entries 82
Mean 0.1228
Std Dev 0.571

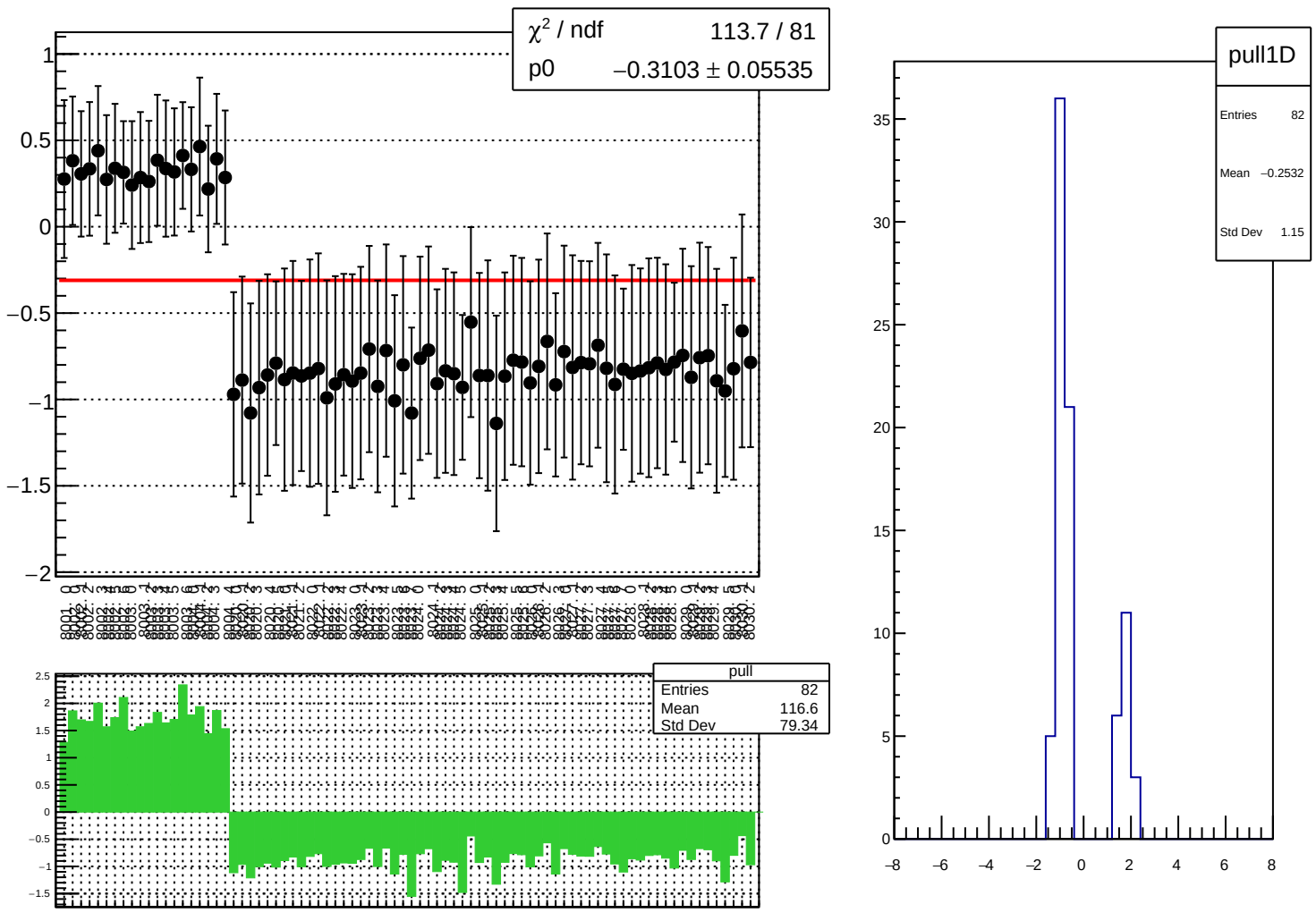

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.254 / 81
p0 8.652 ± 1.094
pull
Entries 82
Mean −555.4
Std Dev 597.7

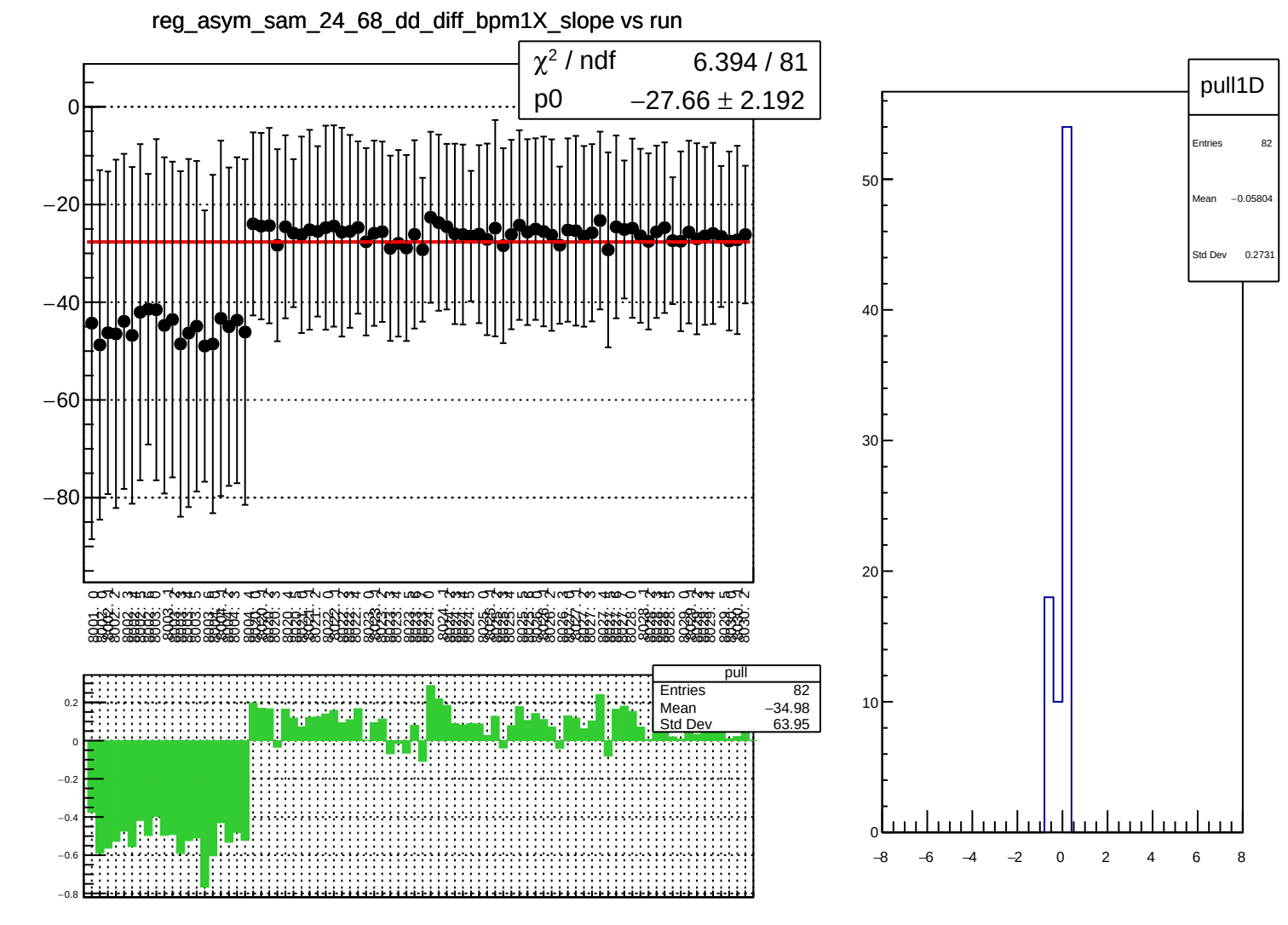

pull1D
Entries 82
Mean 0.003359
Std Dev 0.2277

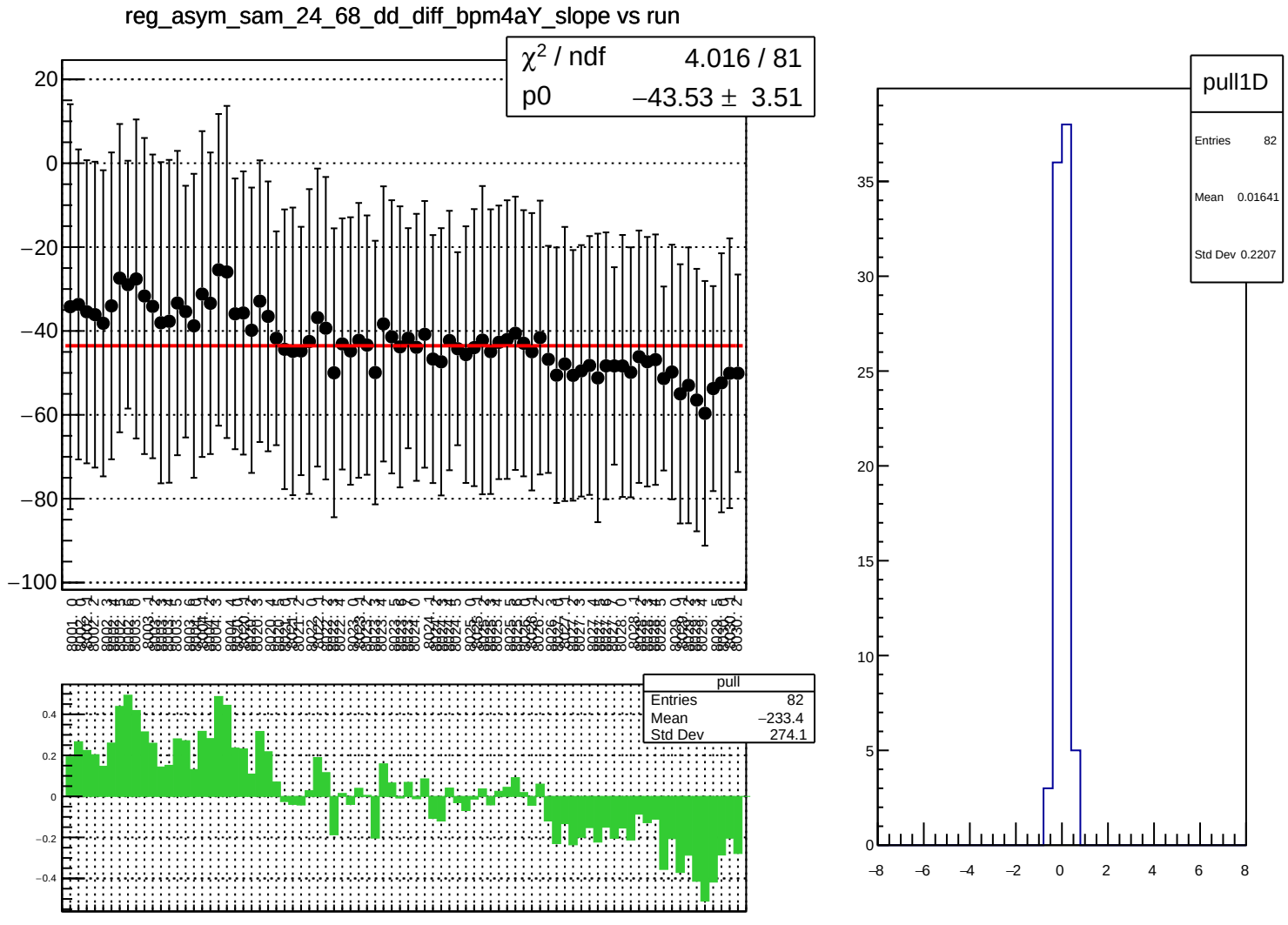

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.07 / 81
p0 26.68 ± 0.7163
pull
Entries 82
Mean −70.77
Std Dev 105.8

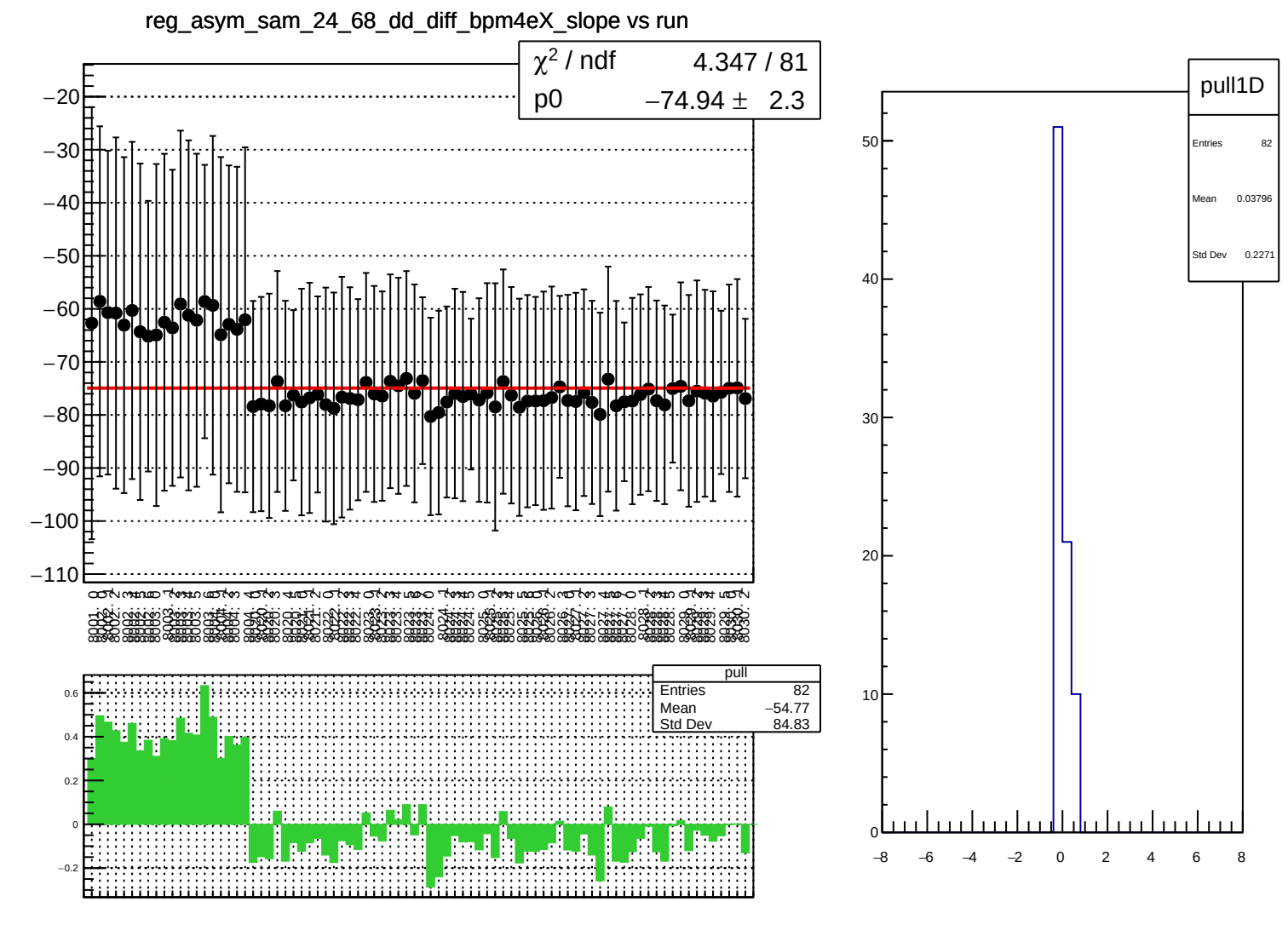

pull1D
Entries 82
Mean −0.07678
Std Dev 0.4631

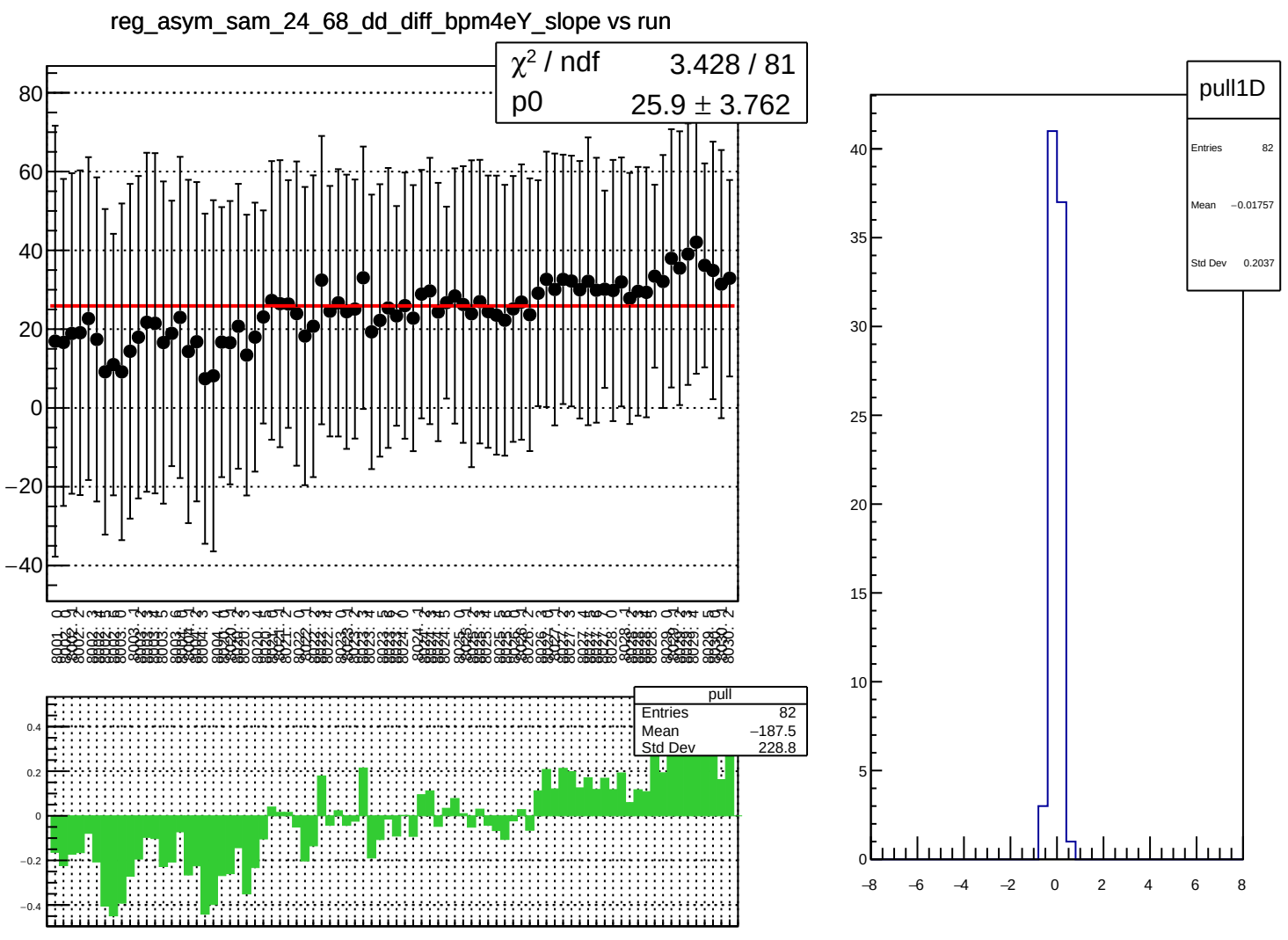

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.301 / 81
p0 14.55 ± 1.173
pull
Entries 82
Mean −336.2
Std Dev 377.4
pull1D
Entries 82
Mean −0.008267
Std Dev 0.2541

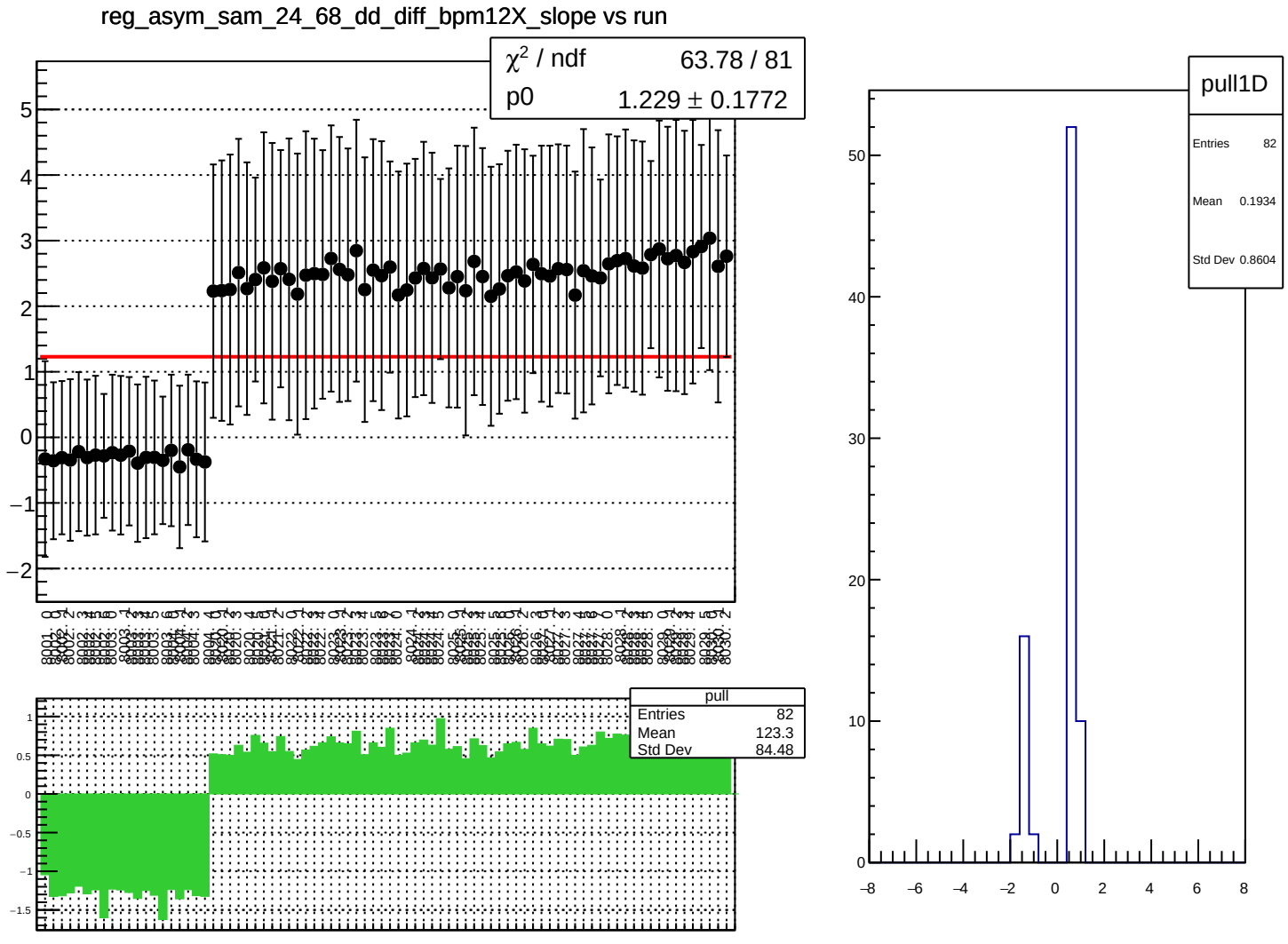

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 113.7 / 81
p0 −0.3103 ± 0.05535
pull
Entries 82
Mean 116.6
Std Dev 79.34
pull1D
Entries 82
Mean −0.2532
Std Dev 1.15

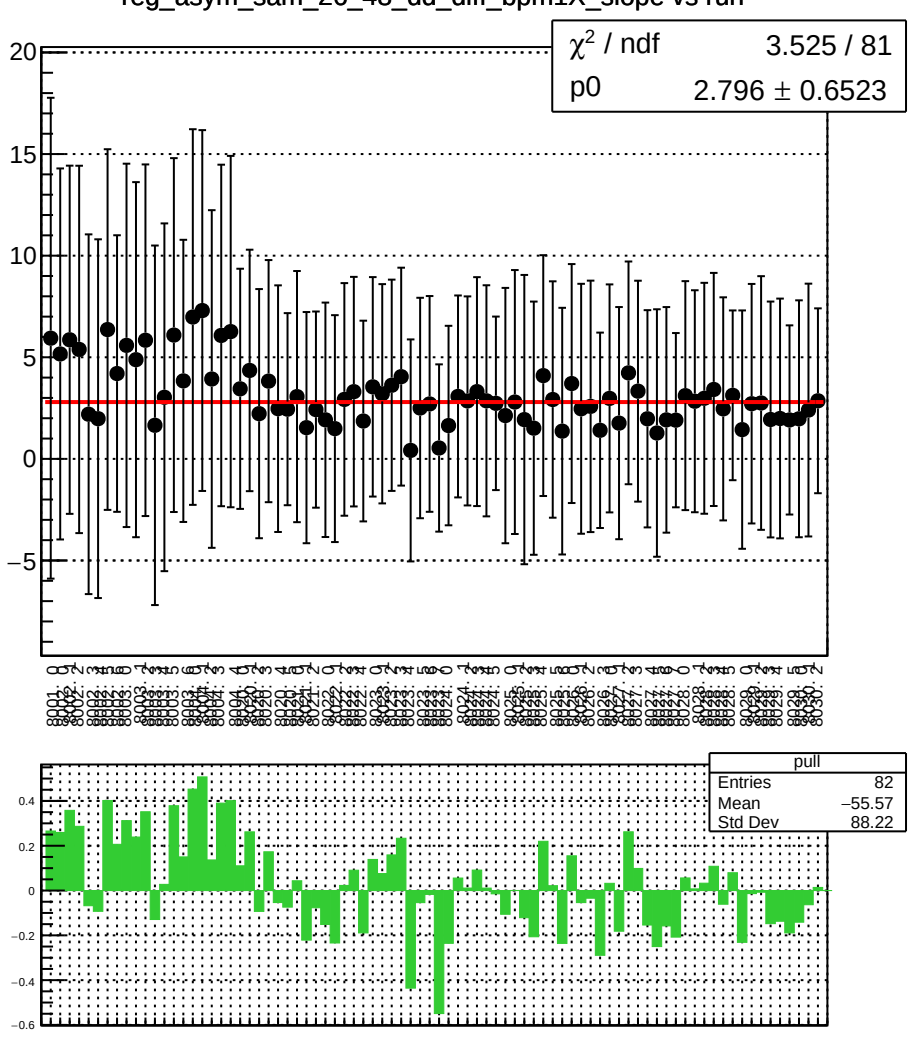

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 6.394 / 81
p0 −27.66 ± 2.192
pull
Entries 82
Mean −34.98
Std Dev 63.95
pull1D
Entries 82
Mean −0.05804
Std Dev 0.2731

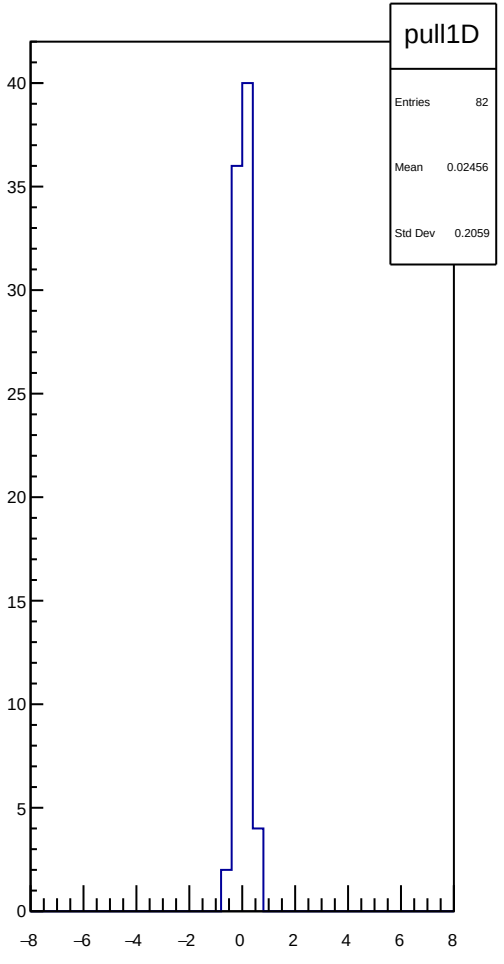

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.016 / 81
p0 −43.53 ± 3.51
pull
Entries 82
Mean −233.4
Std Dev 274.1
pull1D
Entries 82
Mean 0.01641
Std Dev 0.2207

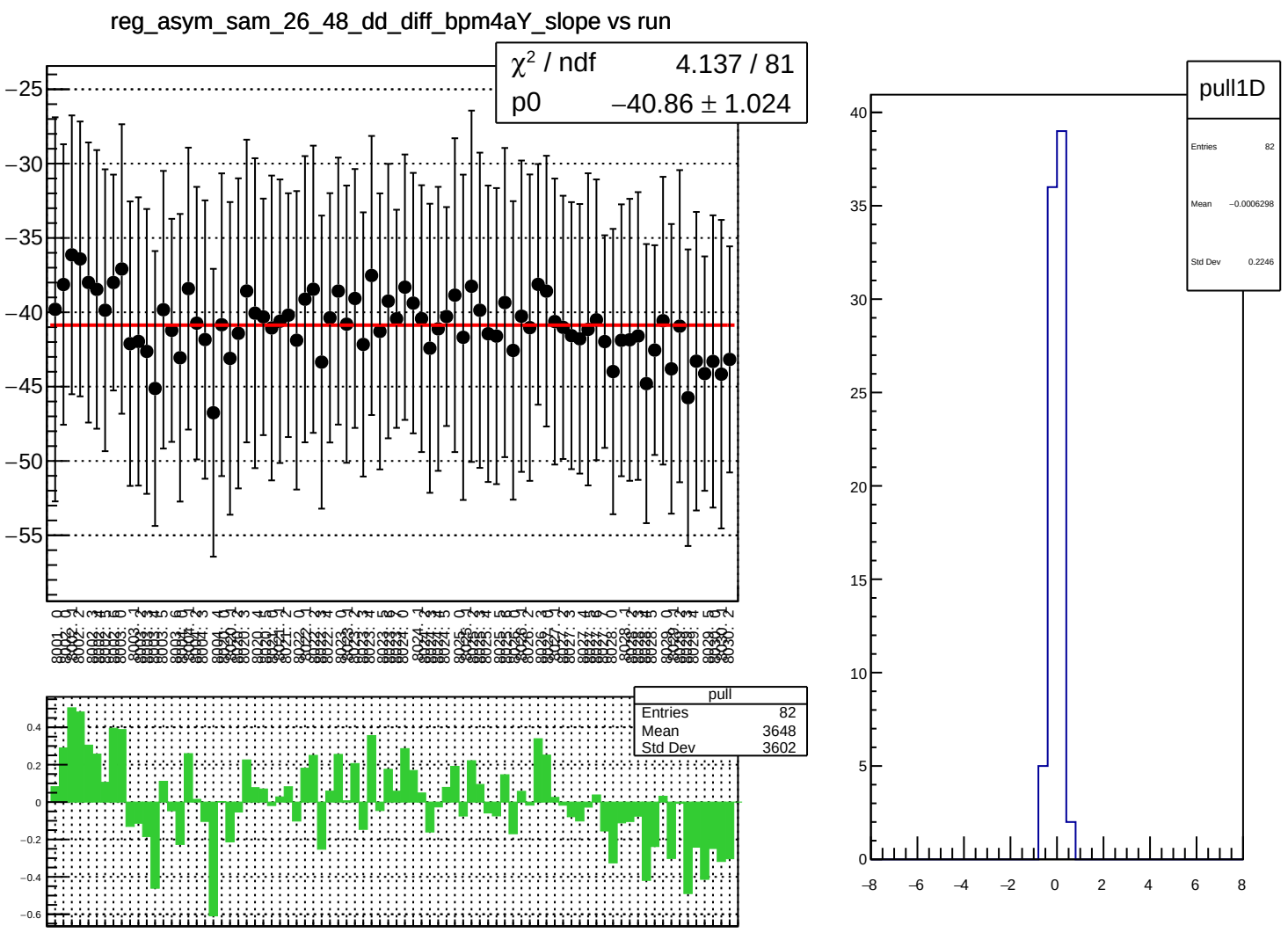

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.347 / 81
p0 −74.94 ± 2.3
pull
Entries 82
Mean −54.77
Std Dev 84.83
pull1D
Entries 82
Mean 0.03796
Std Dev 0.2271

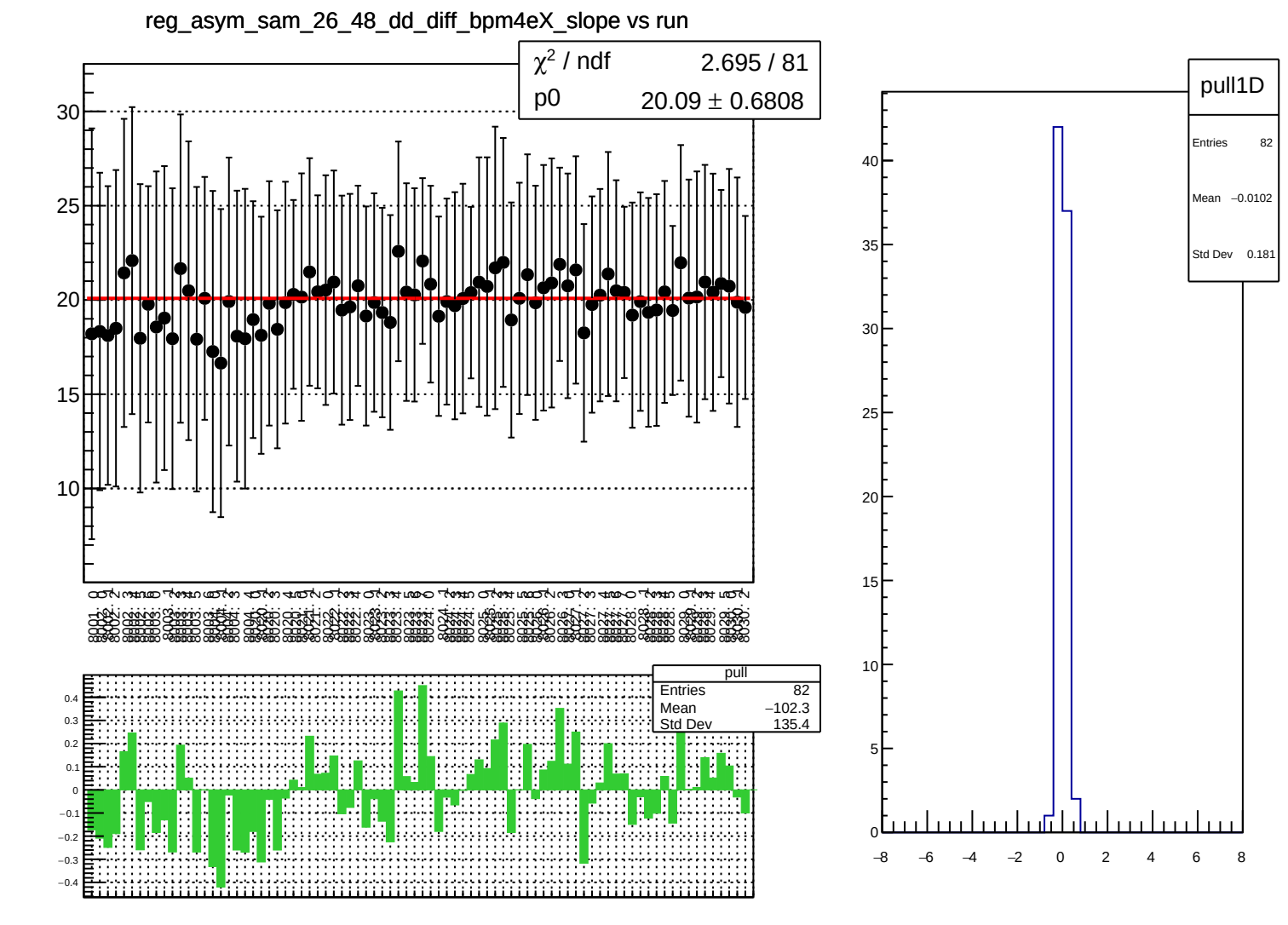

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.428 / 81
p0 25.9 ± 3.762
pull
Entries 82
Mean −187.5
Std Dev 228.8
pull1D
Entries 82
Mean −0.01757
Std Dev 0.2037

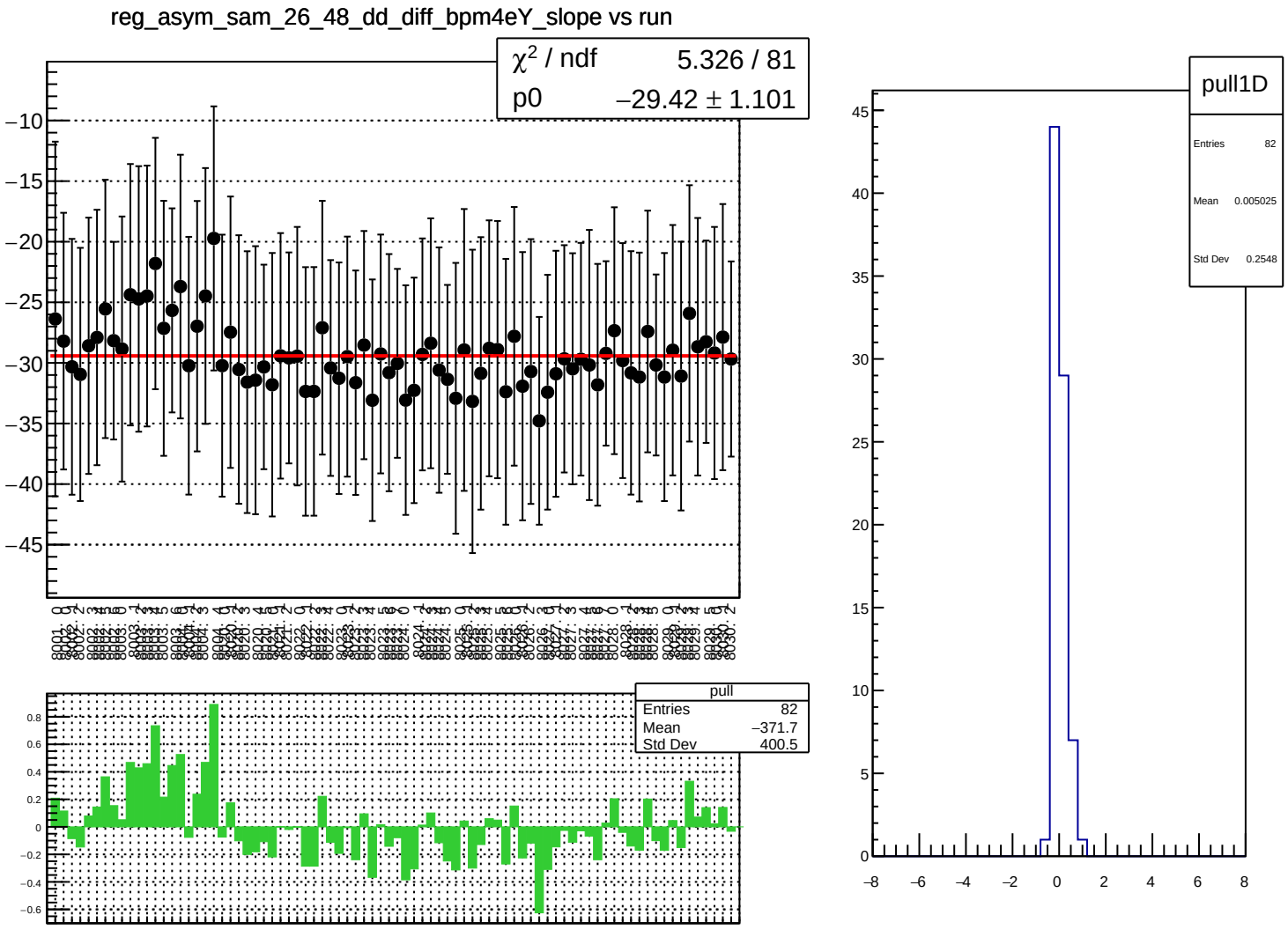

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 63.78 / 81
p0 1.229 ± 0.1772
pull
Entries 82
Mean 123.3
Std Dev 84.48
pull1D
Entries 82
Mean 0.1934
Std Dev 0.8604

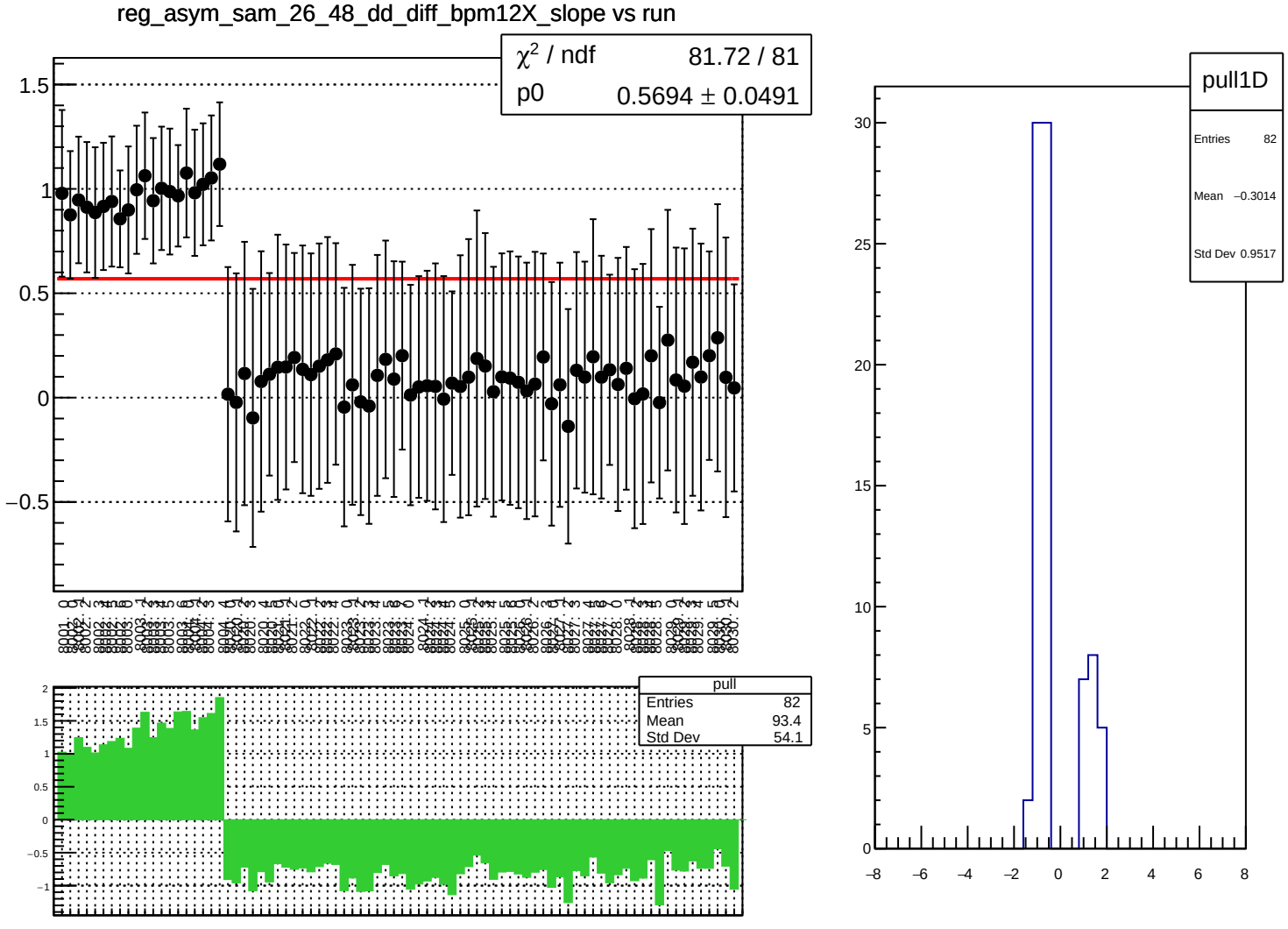

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.525 / 81
p0 2.796 ± 0.6523
pull
Entries 82
Mean −55.57
Std Dev 88.22

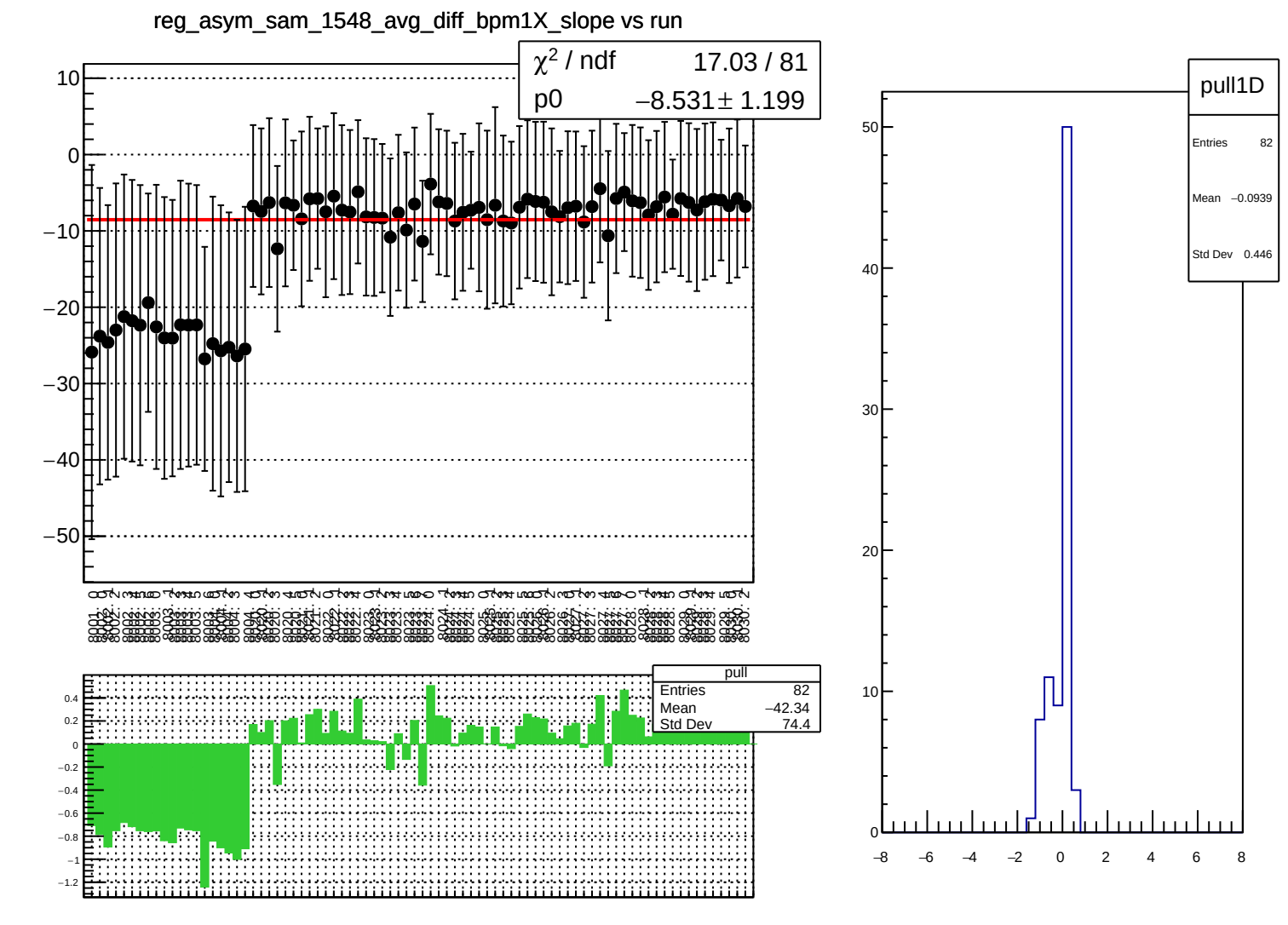

pull1D
Entries 82
Mean 0.02456
Std Dev 0.2059

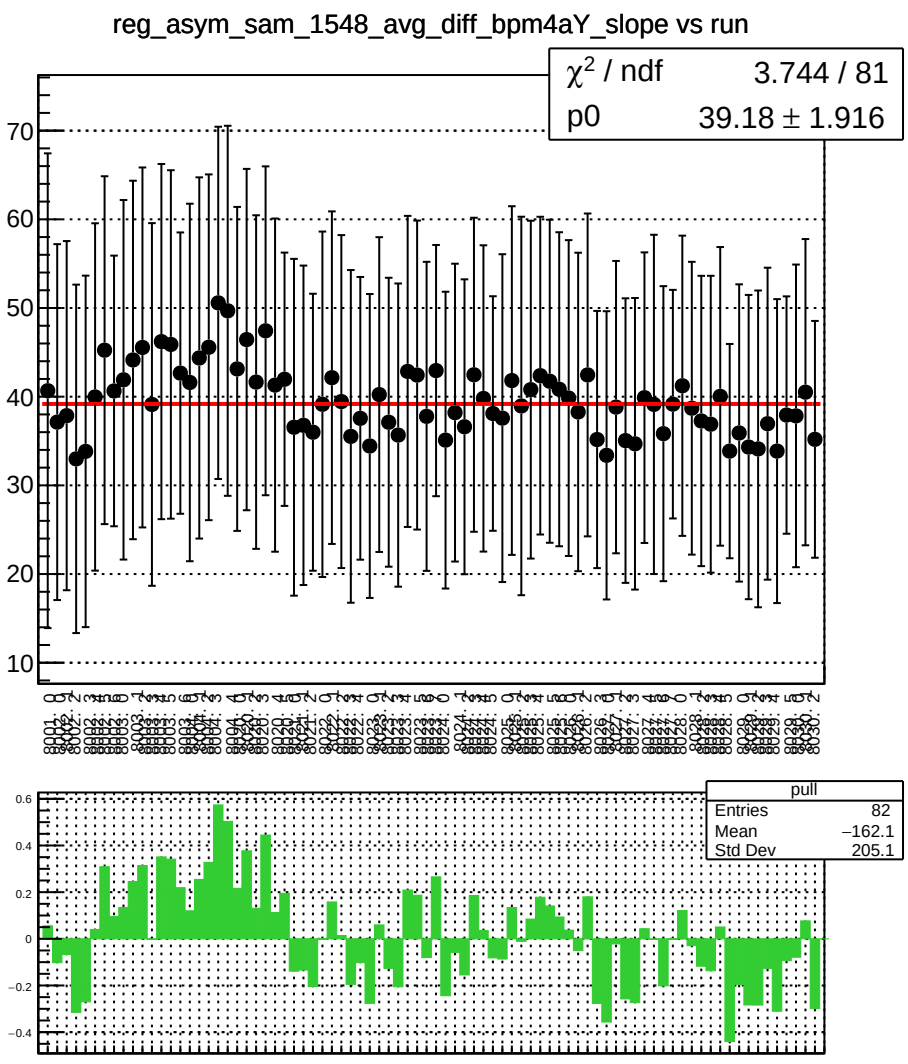

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.137 / 81
p0 −40.86 ± 1.024
pull
Entries 82
Mean 3648
Std Dev 3602
pull1D
Entries 82
Mean −0.0006298
Std Dev 0.2246

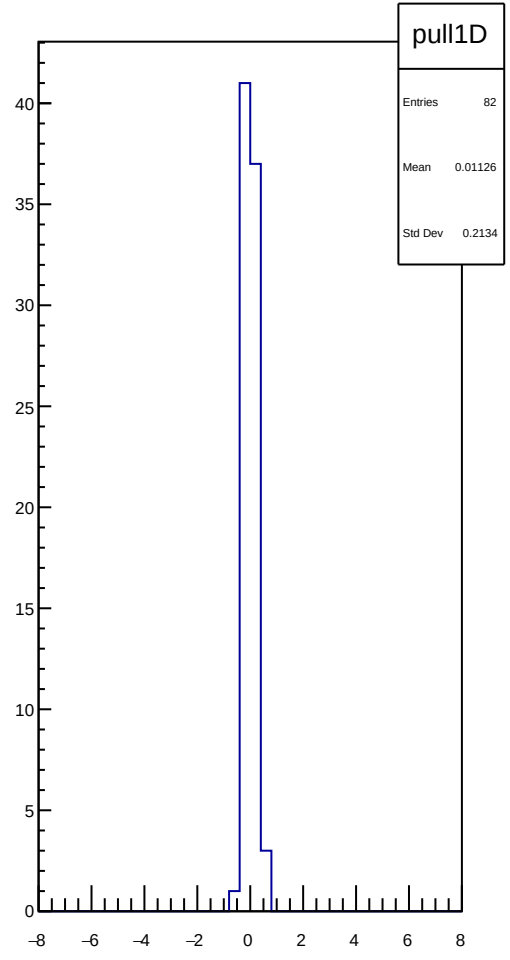

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.695 / 81
p0 20.09 ± 0.6808
pull
Entries 82
Mean −102.3
Std Dev 135.4
pull1D
Entries 82
Mean −0.0102
Std Dev 0.181

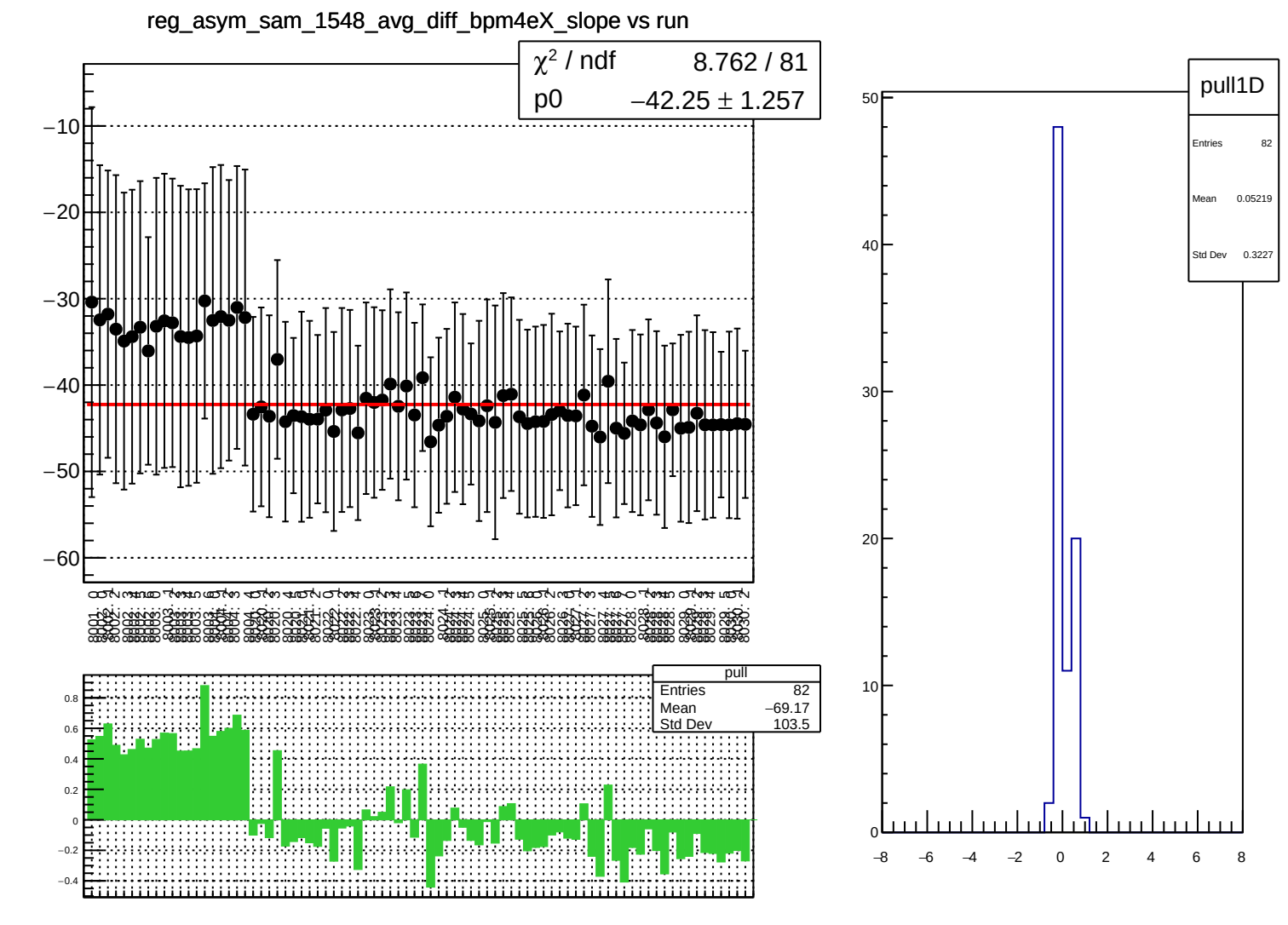

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.326 / 81
p0 −29.42 ± 1.101
pull
Entries 82
Mean −371.7
Std Dev 400.5
pull1D
Entries 82
Mean 0.005025
Std Dev 0.2548

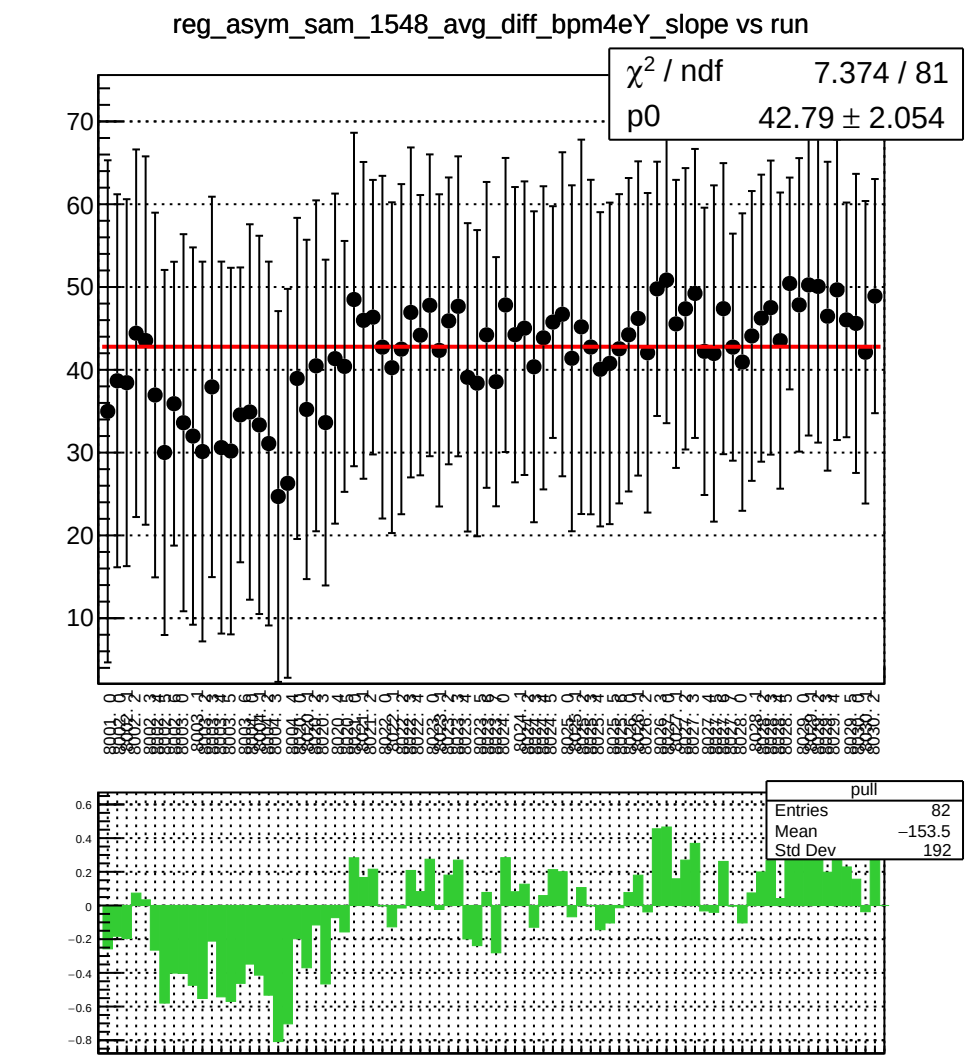

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 81.72 / 81
p0 0.5694 ± 0.0491
pull
Entries 82
Mean 93.4
Std Dev 54.1
pull1D
Entries 82
Mean −0.3014
Std Dev 0.9517

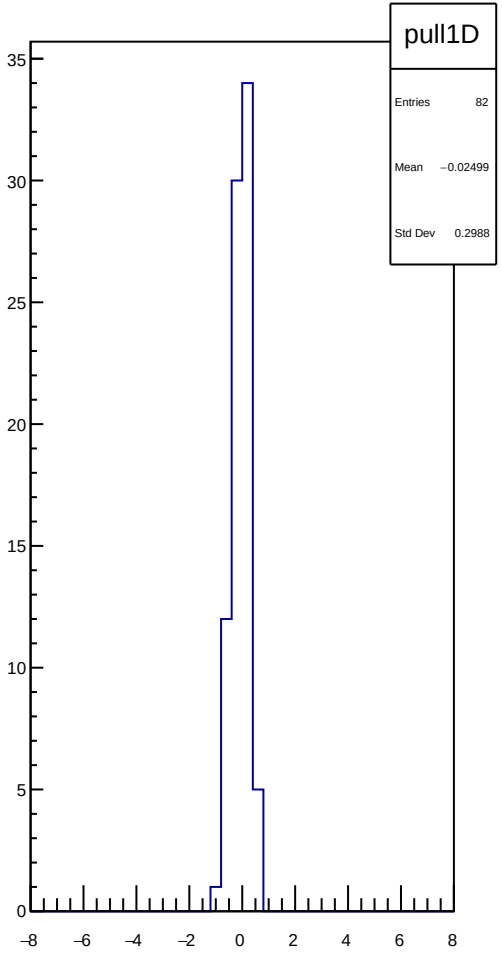

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 17.03 / 81
p0 −8.531 ± 1.199
pull
Entries 82
Mean −42.34
Std Dev 74.4
pull1D
Entries 82
Mean −0.0939
Std Dev 0.446

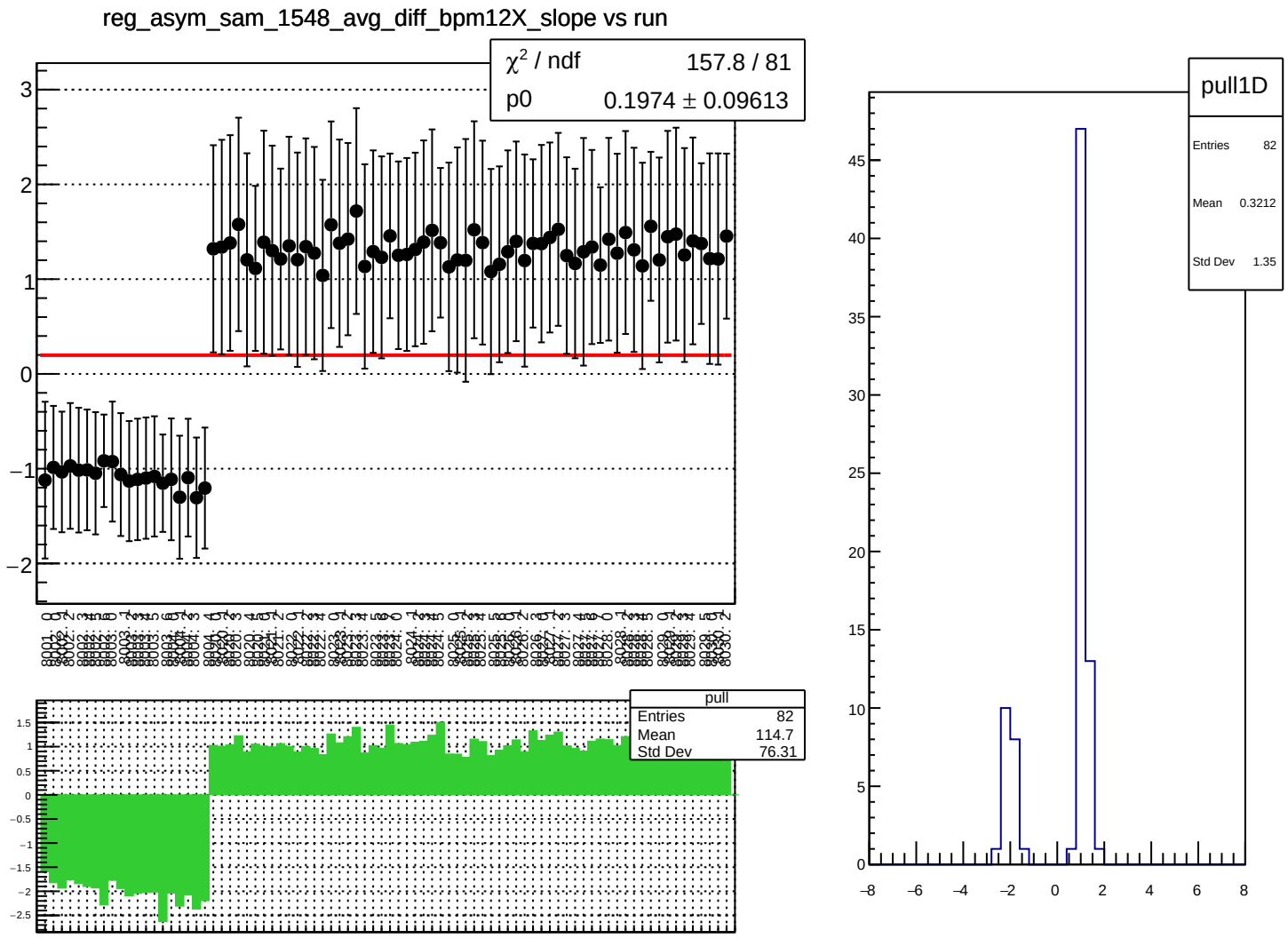

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.744 / 81
p0 39.18 ± 1.916
pull
Entries 82
Mean −162.1
Std Dev 205.1

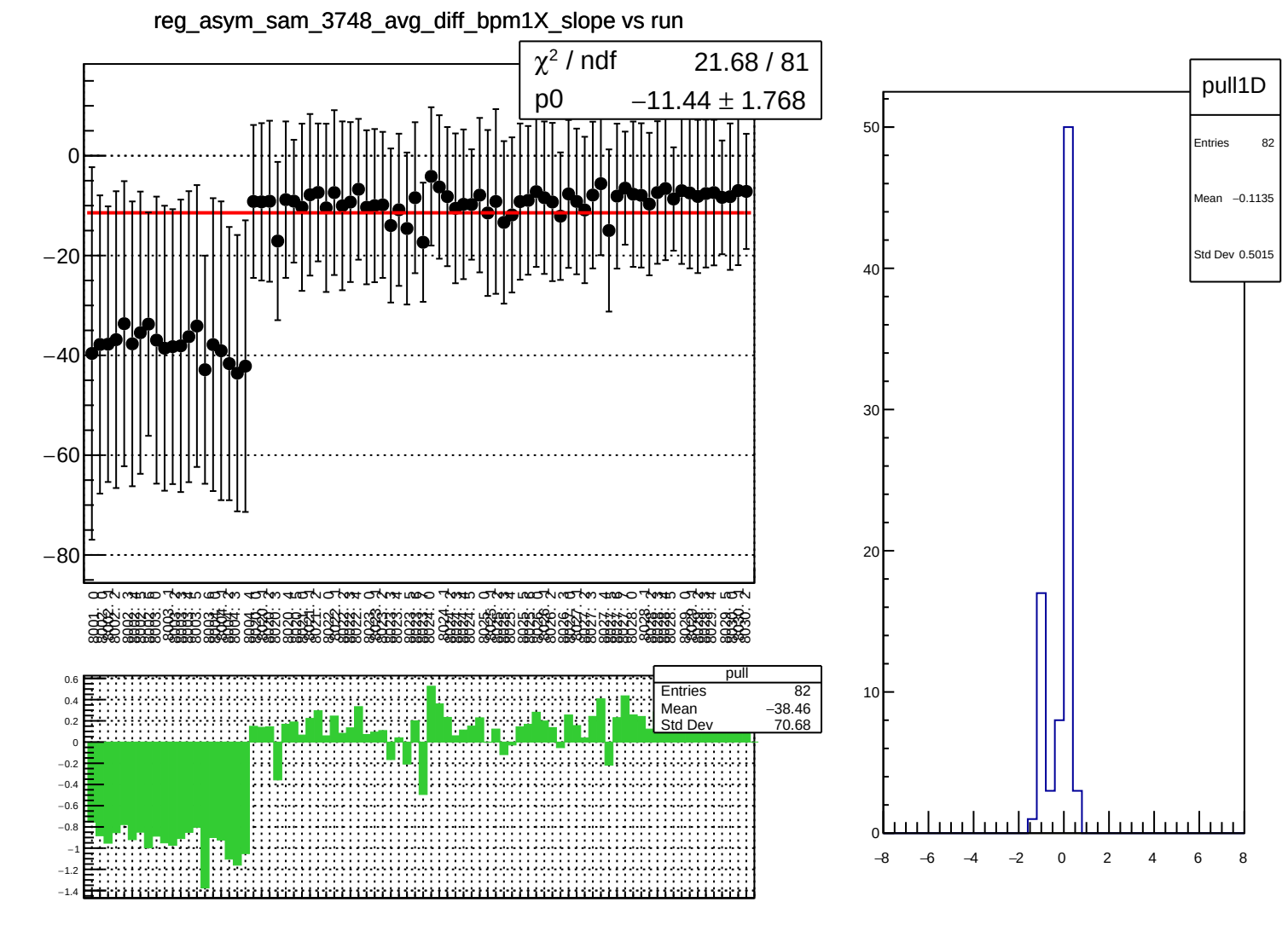

pull1D
Entries 82
Mean 0.01126
Std Dev 0.2134

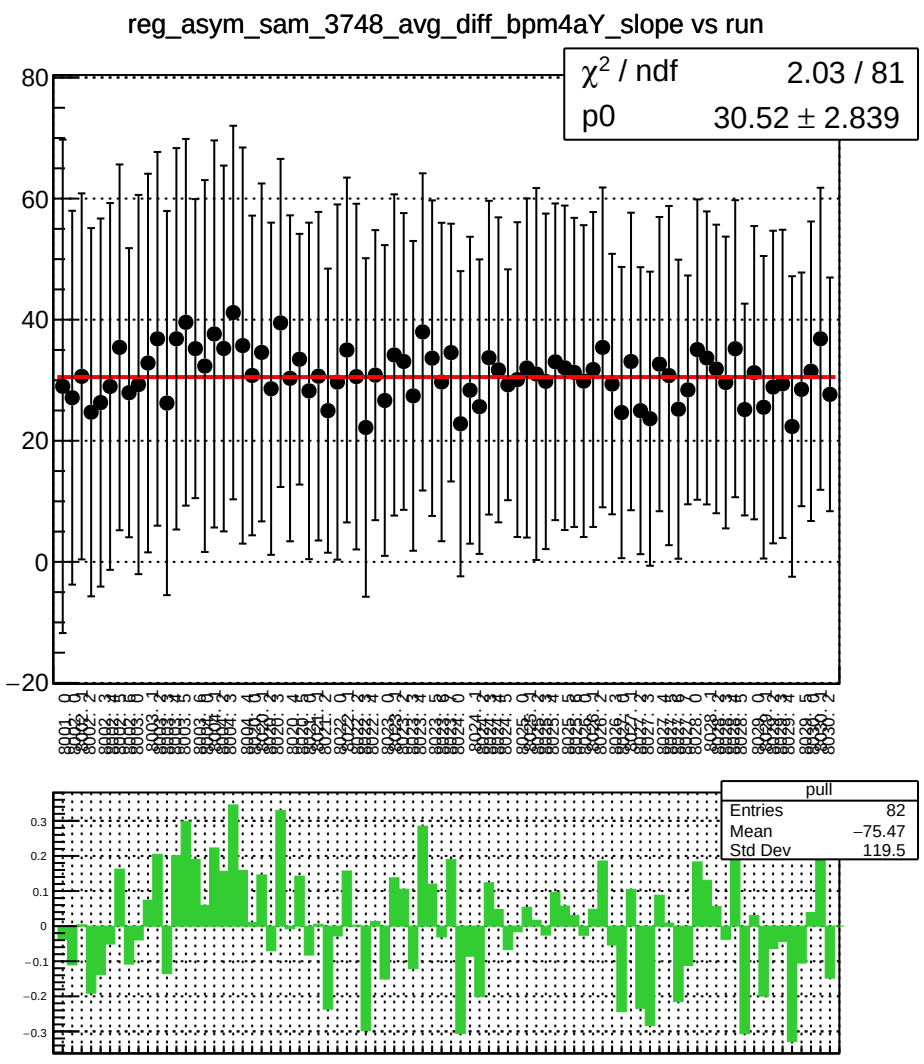

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.762 / 81
p0 −42.25 ± 1.257
pull
Entries 82
Mean −69.17
Std Dev 103.5
pull1D
Entries 82
Mean 0.05219
Std Dev 0.3227

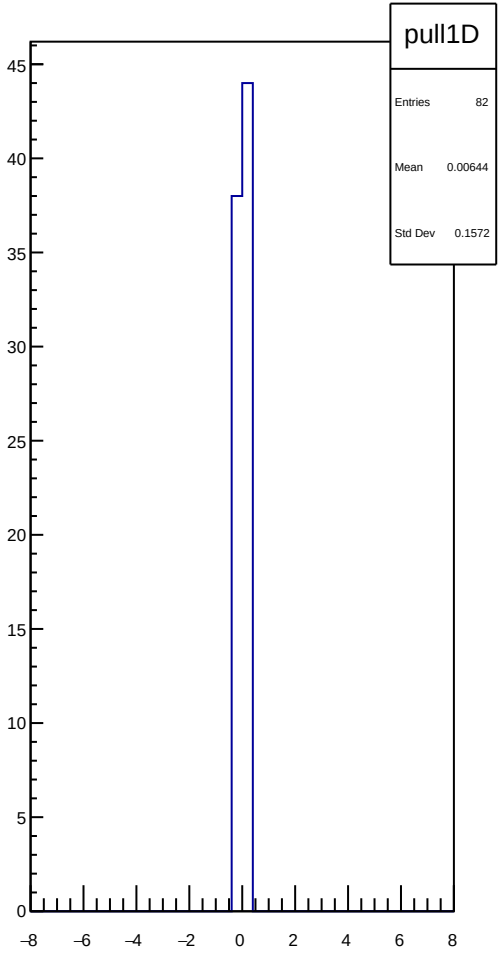

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.374 / 81
p0 42.79 ± 2.054
pull
Entries 82
Mean −153.5
Std Dev 192

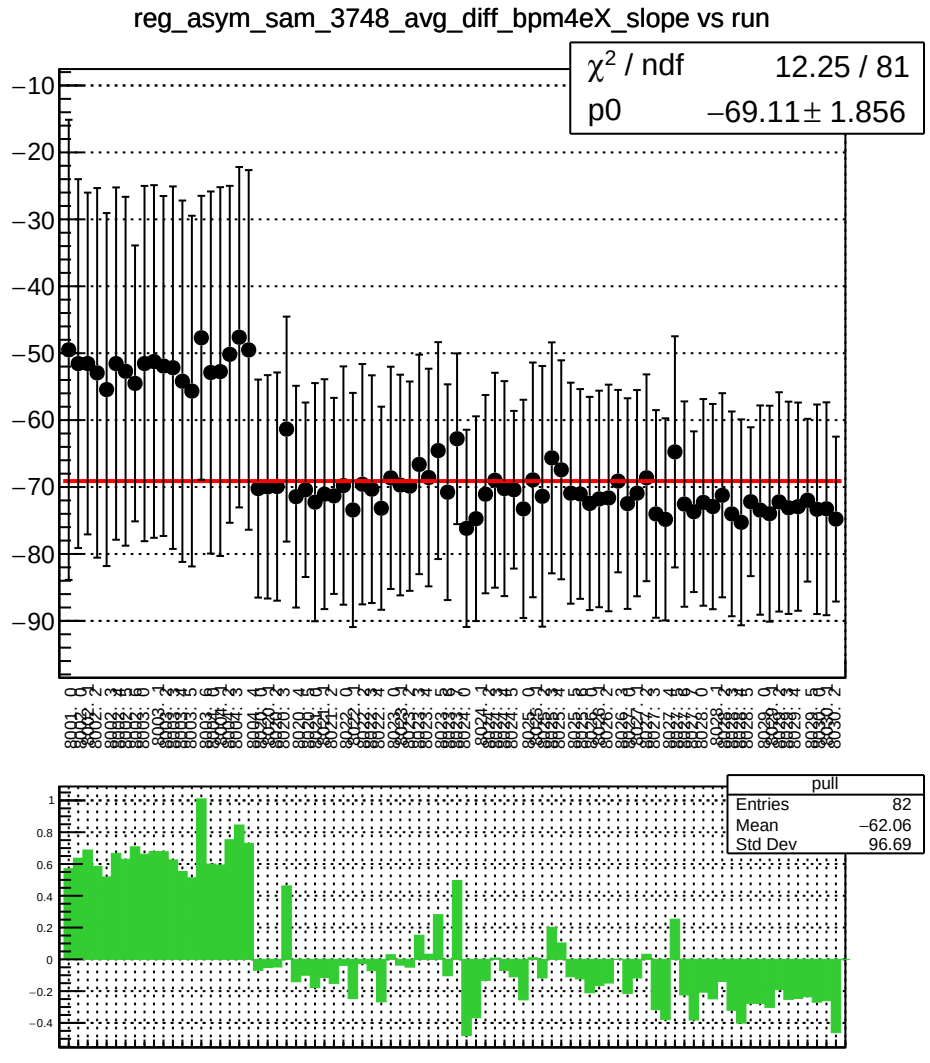

pull1D
Entries 82
Mean −0.02499
Std Dev 0.2988

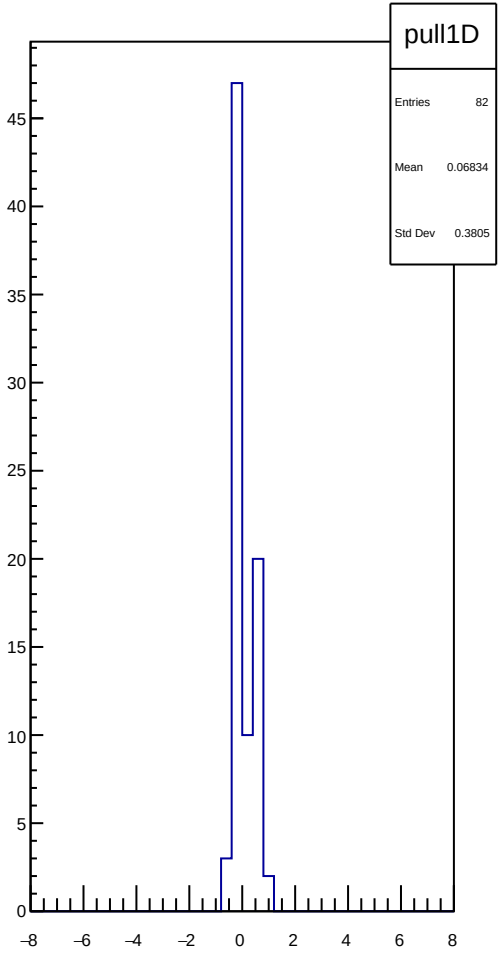

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 157.8 / 81
p0 0.1974 ± 0.09613
pull
Entries 82
Mean 114.7
Std Dev 76.31
pull1D
Entries 82
Mean 0.3212
Std Dev 1.35

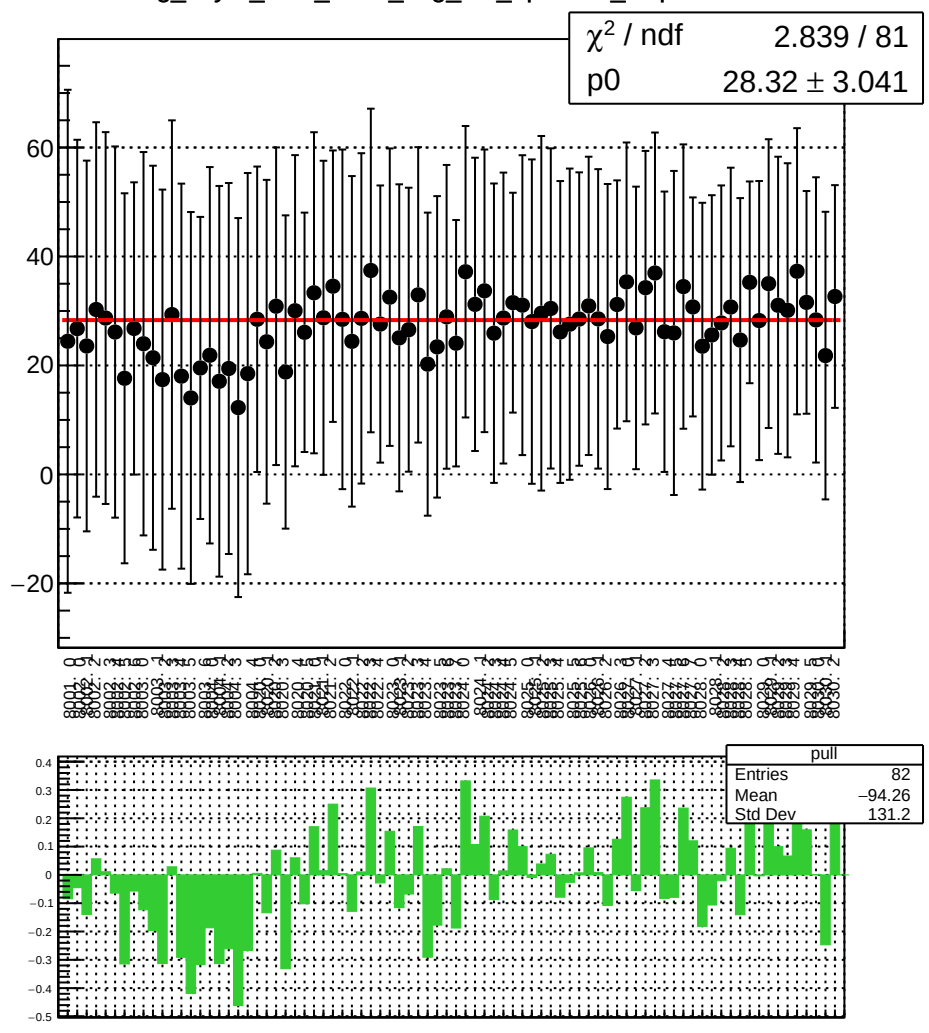

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 21.68 / 81
p0 −11.44 ± 1.768
pull
Entries 82
Mean −38.46
Std Dev 70.68
pull1D
Entries 82
Mean −0.1135
Std Dev 0.5015

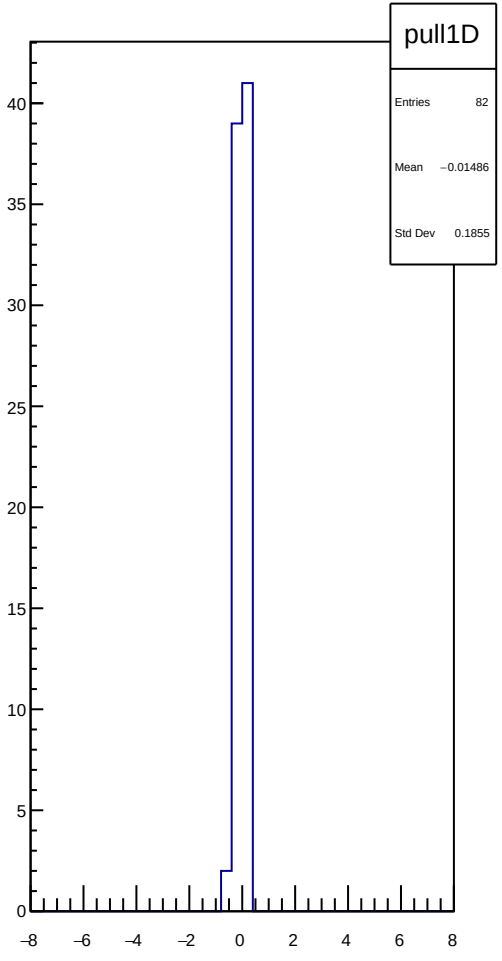

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.03 / 81
p0 30.52 ± 2.839
pull
Entries 82
Mean −75.47
Std Dev 119.5

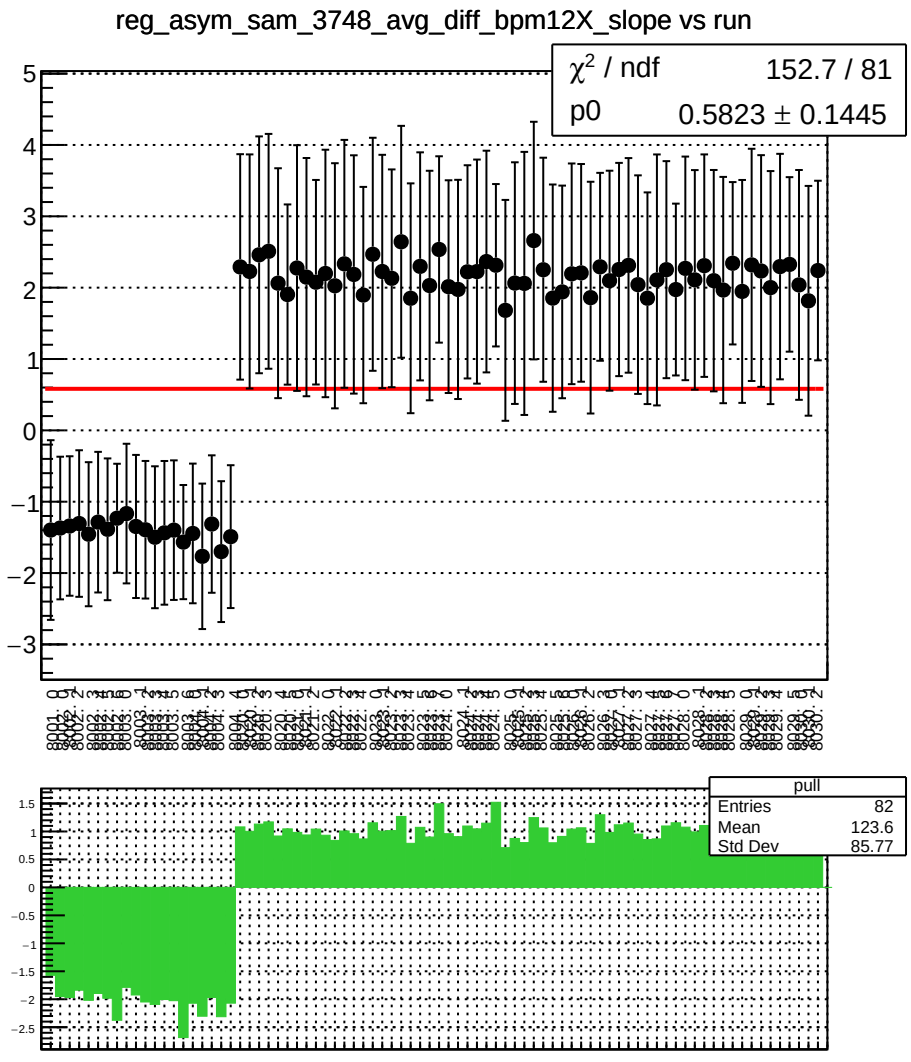

pull1D
Entries 82
Mean 0.00644
Std Dev 0.1572

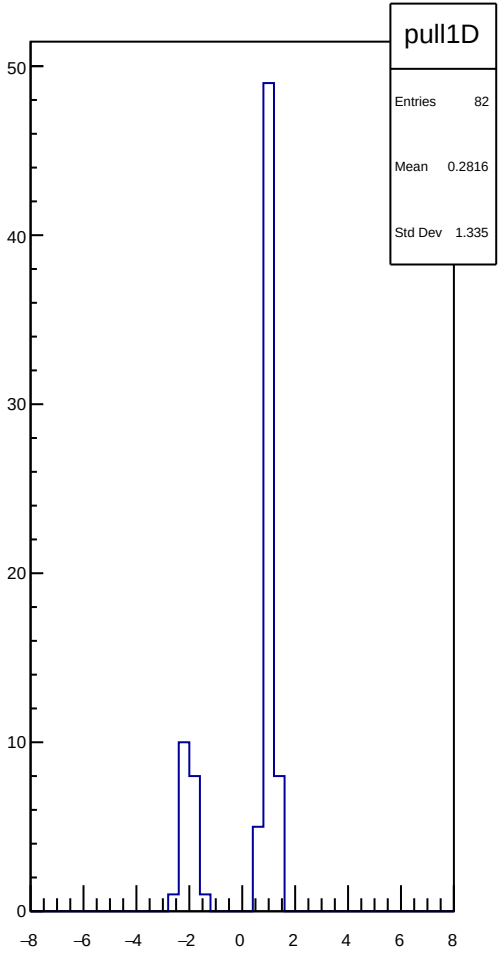

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.25 / 81
p0 −69.11 ± 1.856
pull
Entries 82
Mean −62.06
Std Dev 96.69

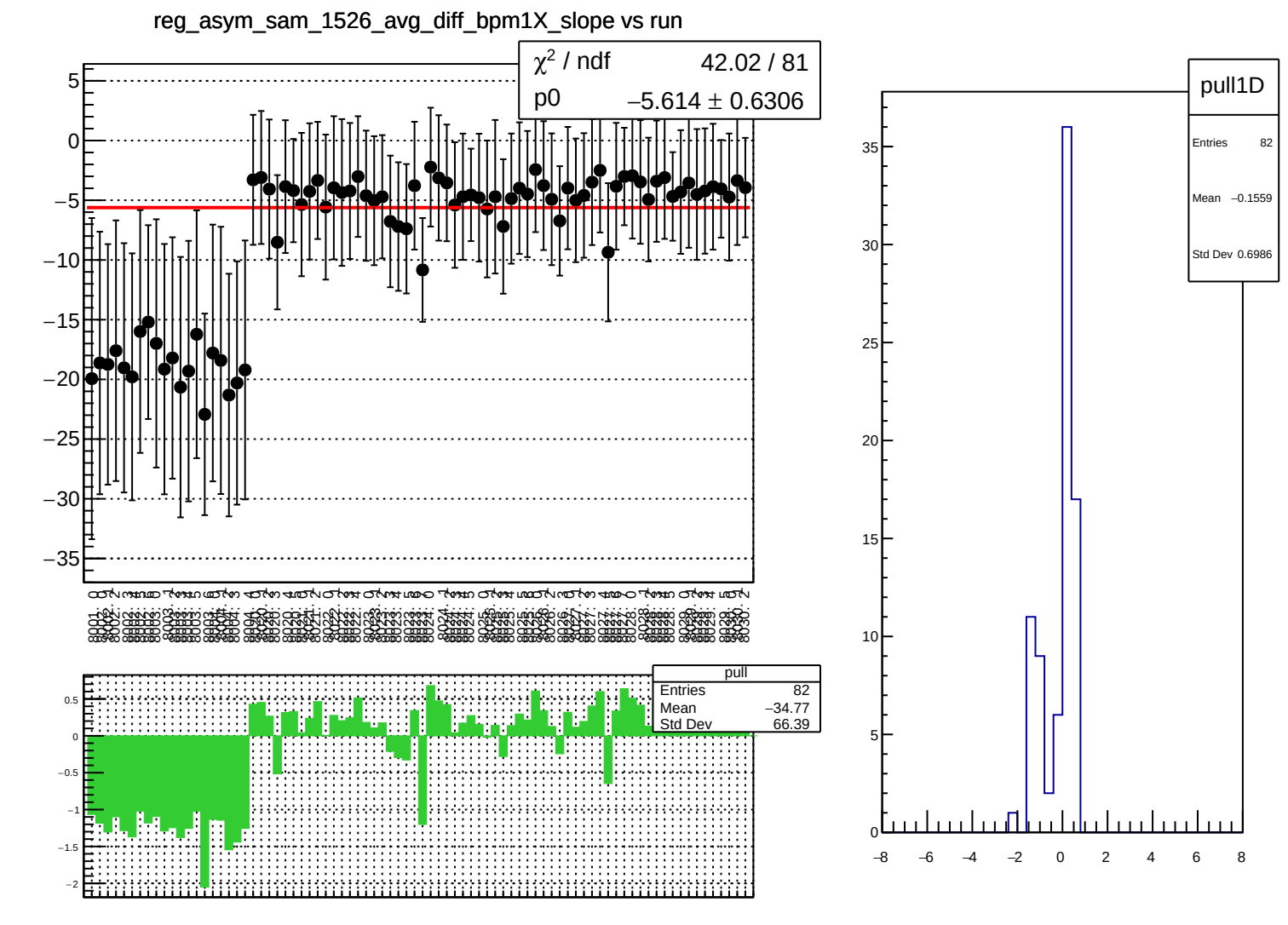

pull1D
Entries 82
Mean 0.06834
Std Dev 0.3805

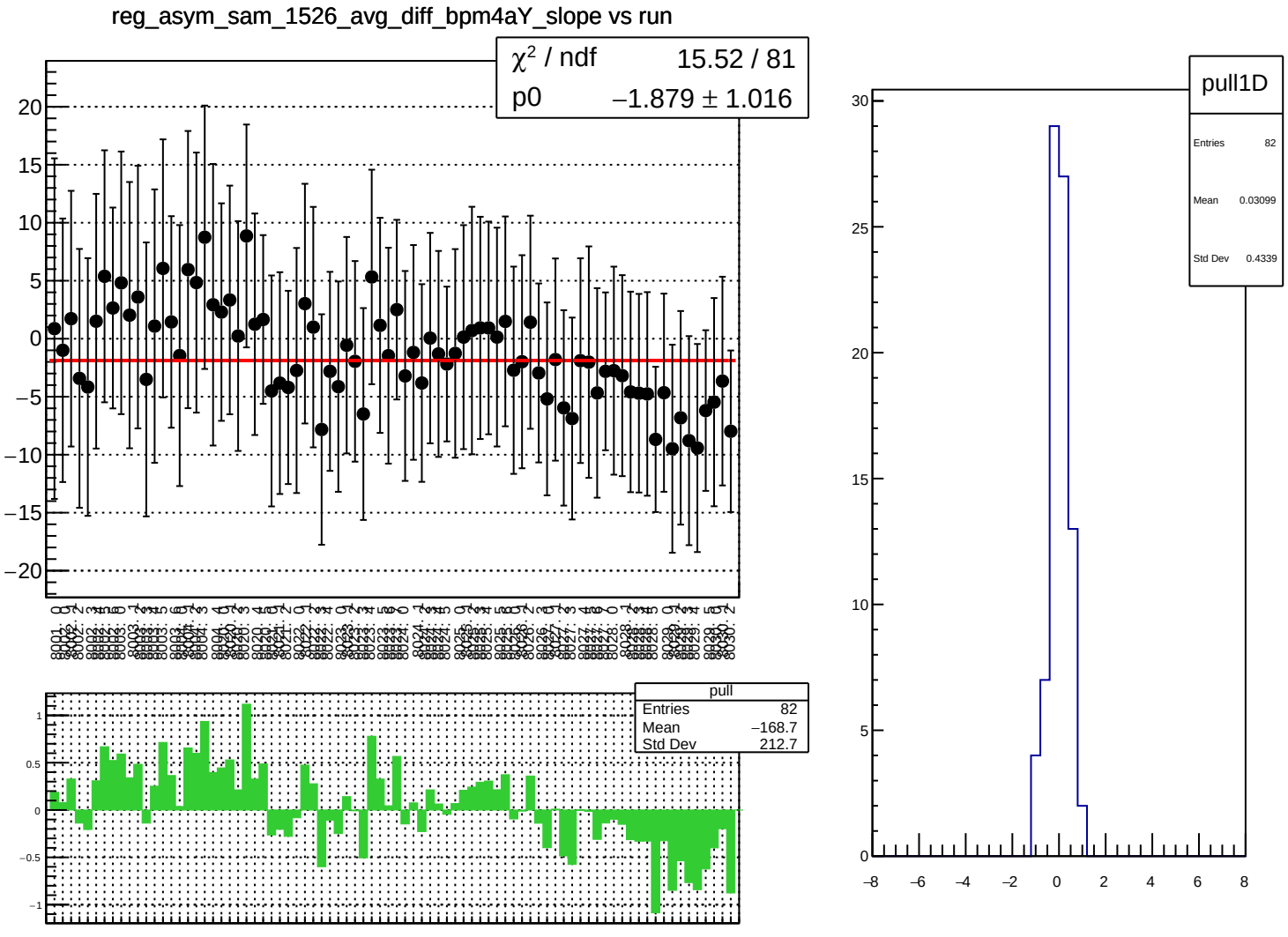

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.839 / 81
p0 28.32 ± 3.041
pull
Entries 82
Mean −94.26
Std Dev 131.2

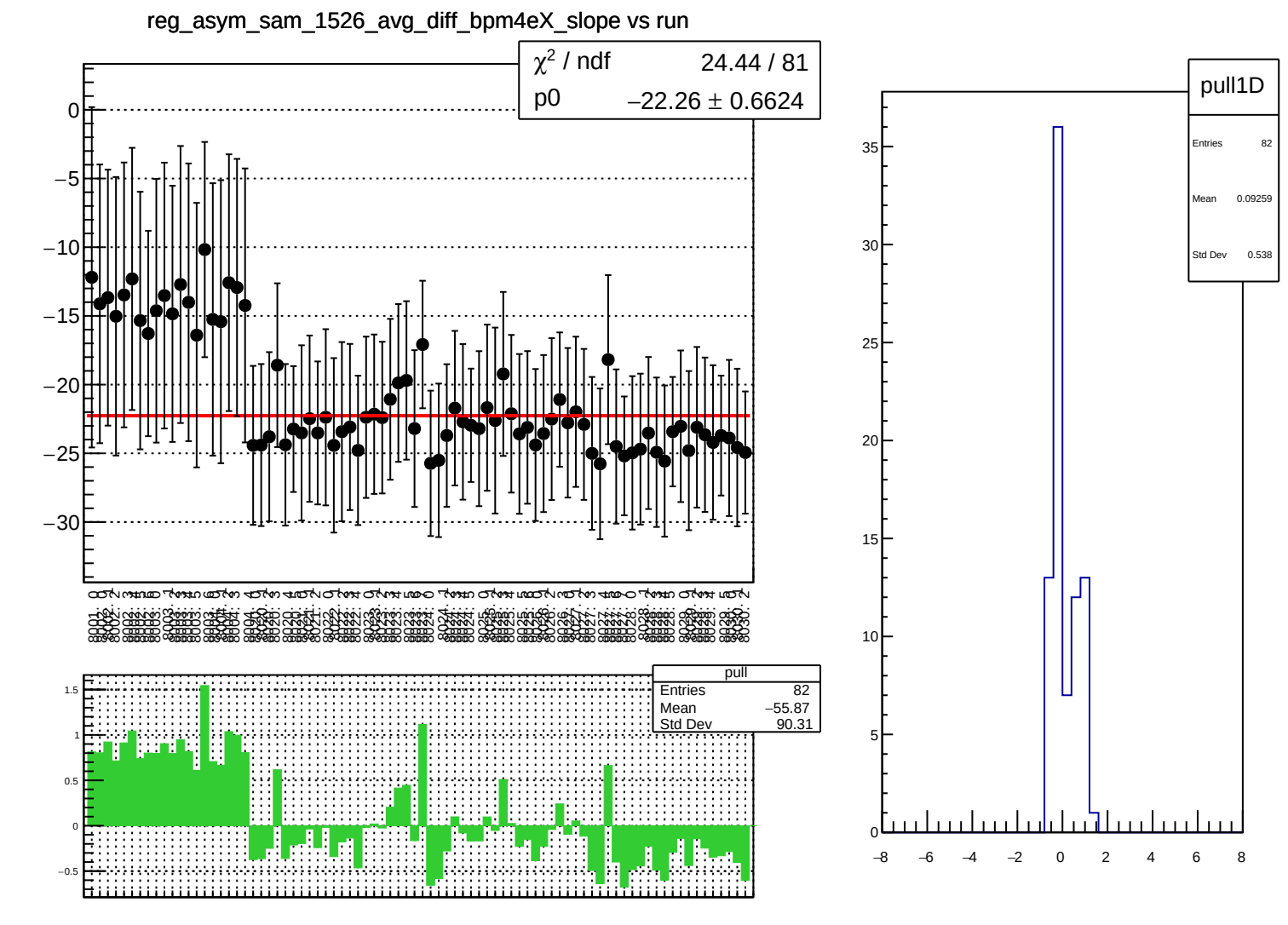

pull1D
Entries 82
Mean −0.01486
Std Dev 0.1855

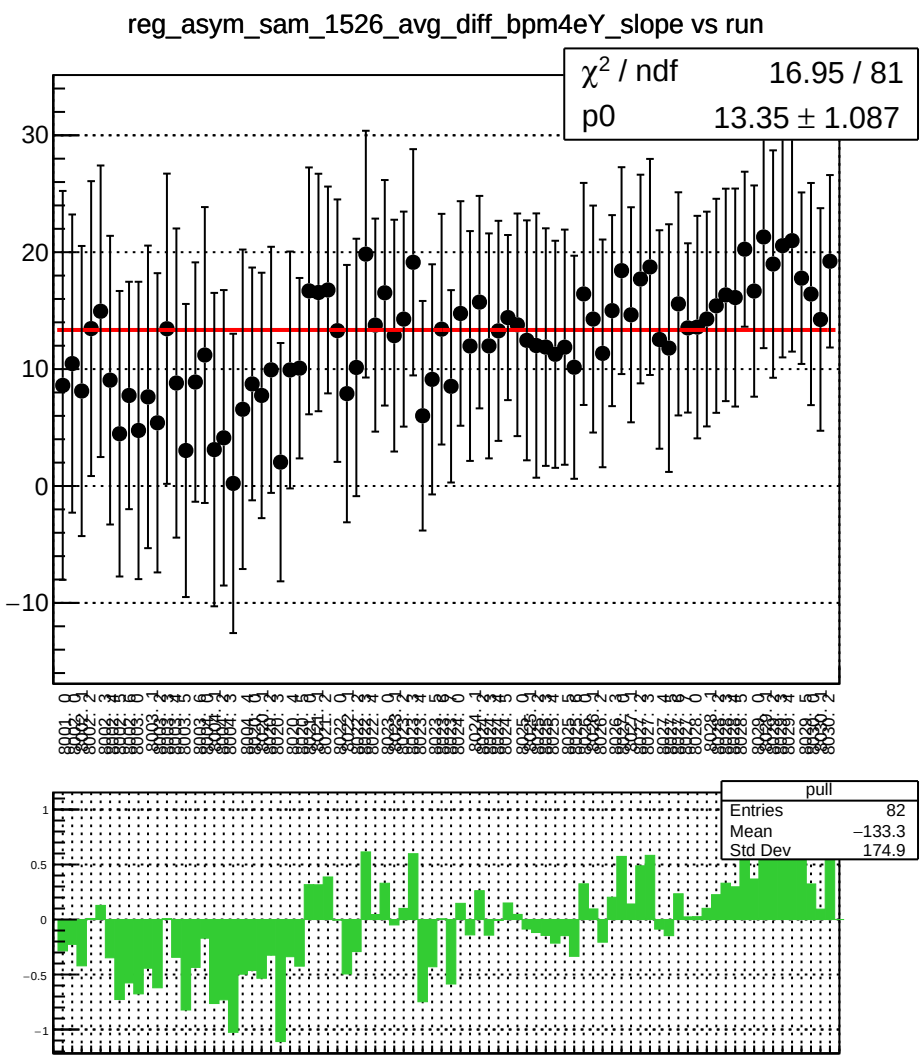

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 152.7 / 81
p0 0.5823 ± 0.1445
pull
Entries 82
Mean 123.6
Std Dev 85.77

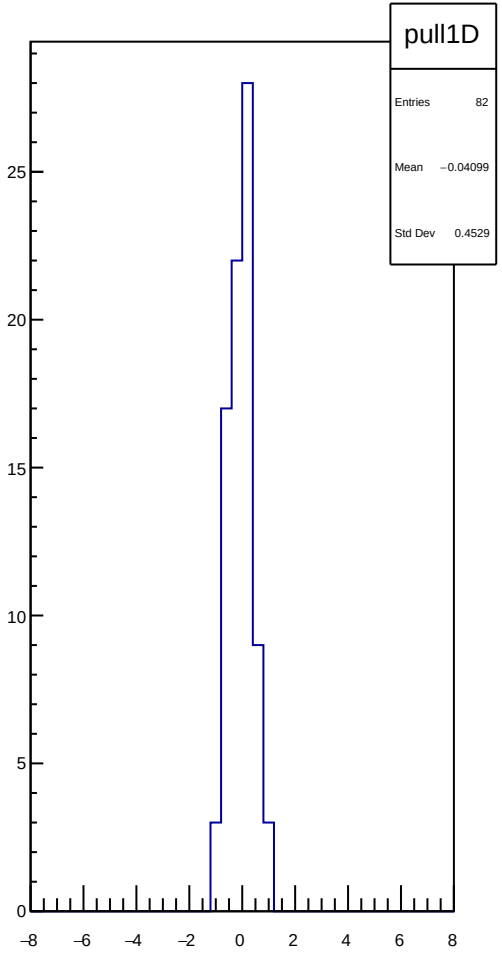

pull1D
Entries 82
Mean 0.2816
Std Dev 1.335

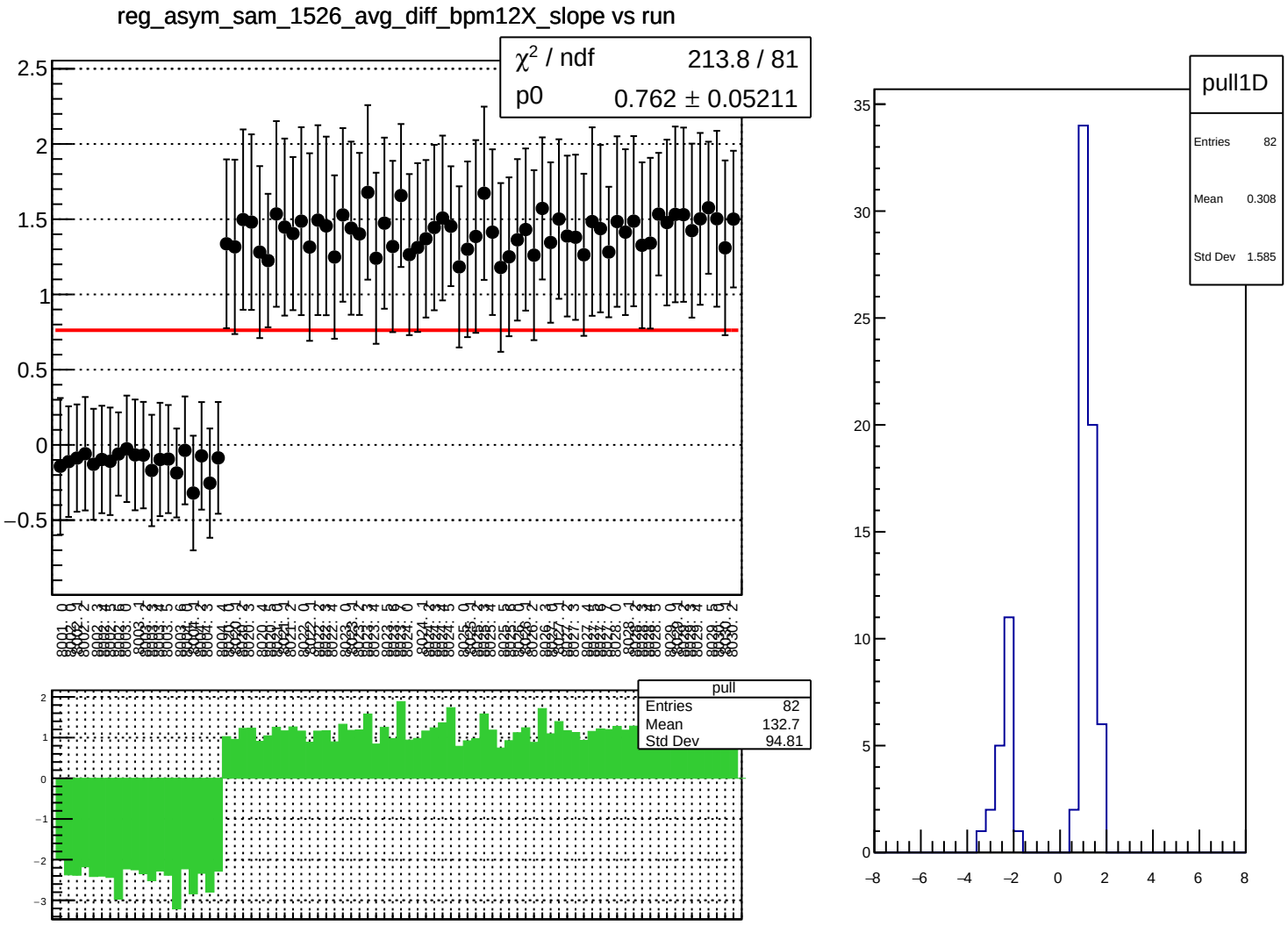

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 42.02 / 81
p0 −5.614 ± 0.6306
pull
Entries 82
Mean −34.77
Std Dev 66.39
pull1D
Entries 82
Mean −0.1559
Std Dev 0.6986

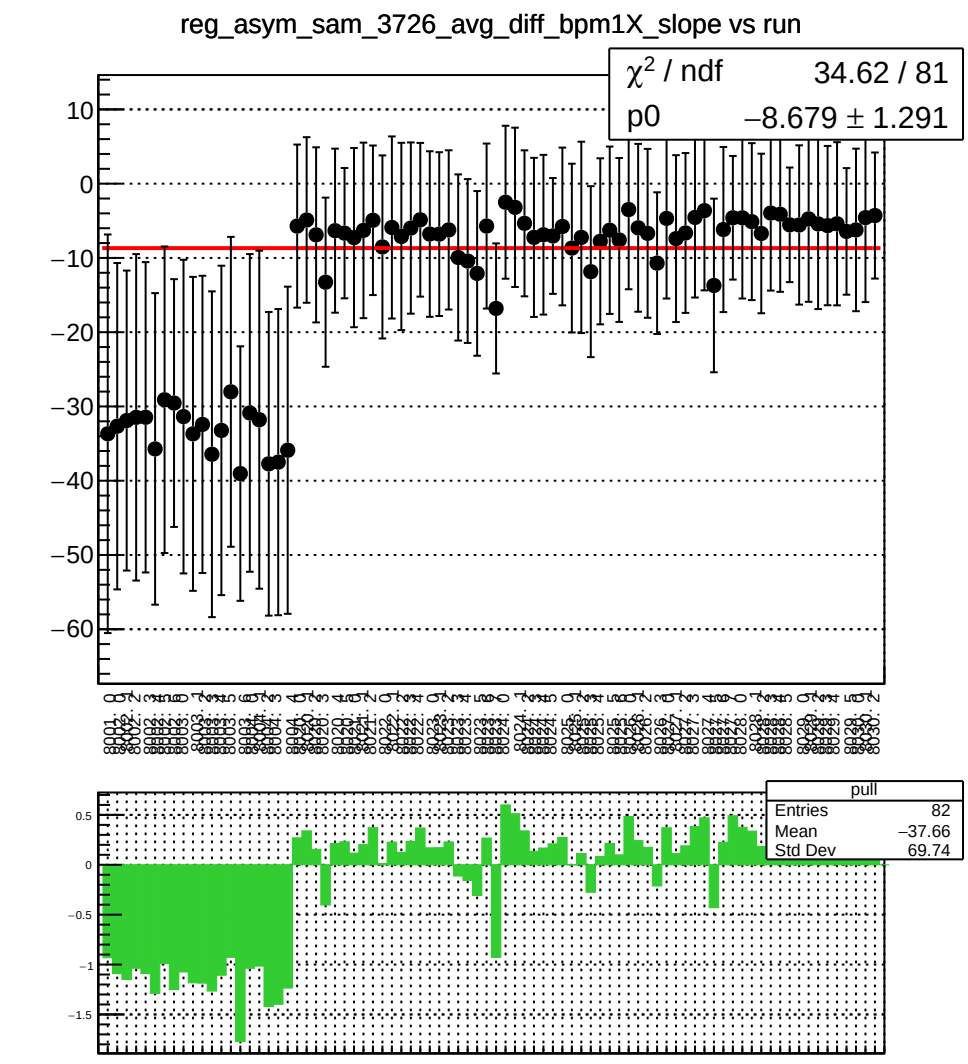

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.52 / 81
p0 −1.879 ± 1.016
pull
Entries 82
Mean −168.7
Std Dev 212.7
pull1D
Entries 82
Mean 0.03099
Std Dev 0.4339

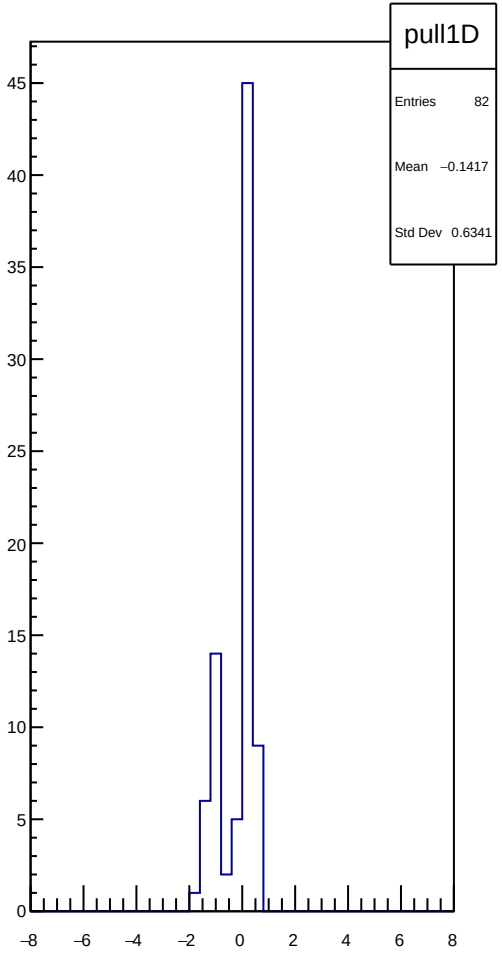

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.44 / 81
p0 −22.26 ± 0.6624
pull
Entries 82
Mean −55.87
Std Dev 90.31
pull1D
Entries 82
Mean 0.09259
Std Dev 0.538

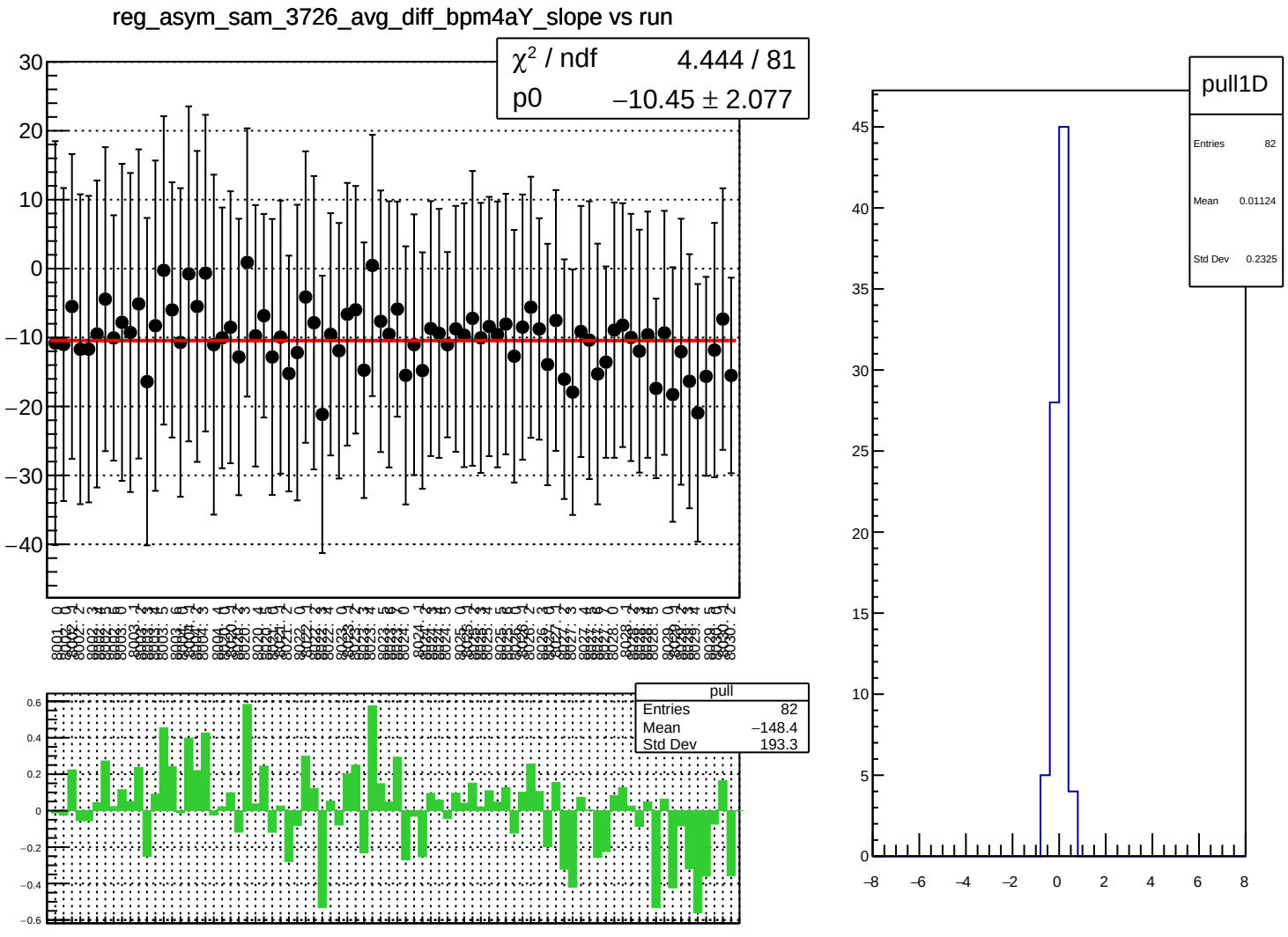

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.95 / 81
p0 13.35 ± 1.087
pull
Entries 82
Mean −133.3
Std Dev 174.9

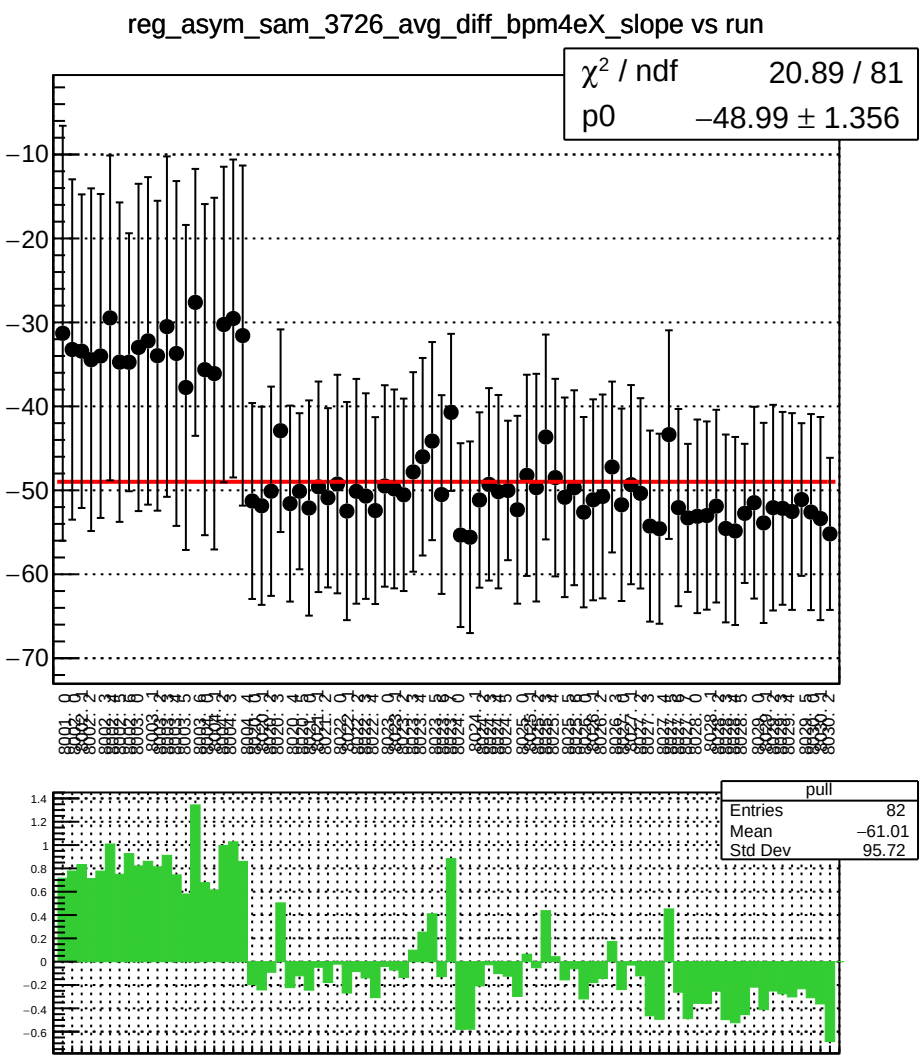

pull1D
Entries 82
Mean −0.04099
Std Dev 0.4529

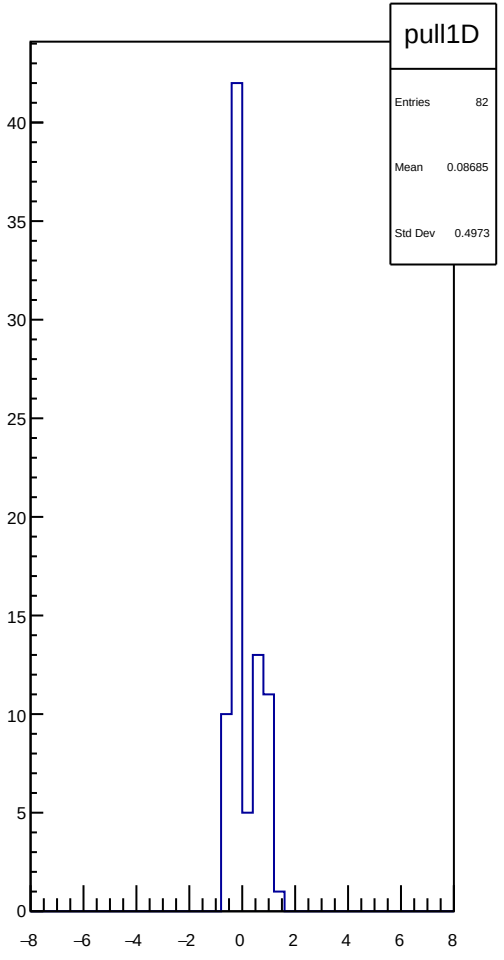

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 213.8 / 81
p0 0.762 ± 0.05211
pull
Entries 82
Mean 132.7
Std Dev 94.81
pull1D
Entries 82
Mean 0.308
Std Dev 1.585

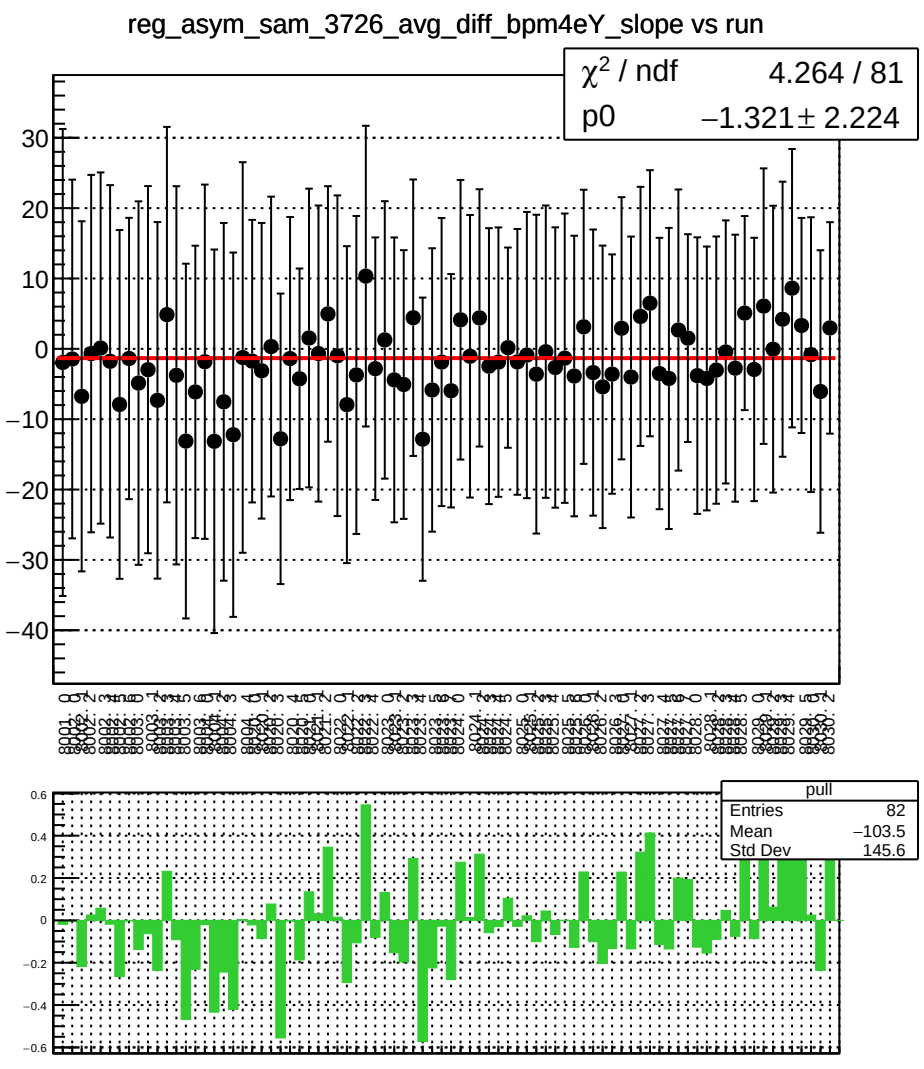

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 34.62 / 81
p0 −8.679 ± 1.291
pull
Entries 82
Mean −37.66
Std Dev 69.74

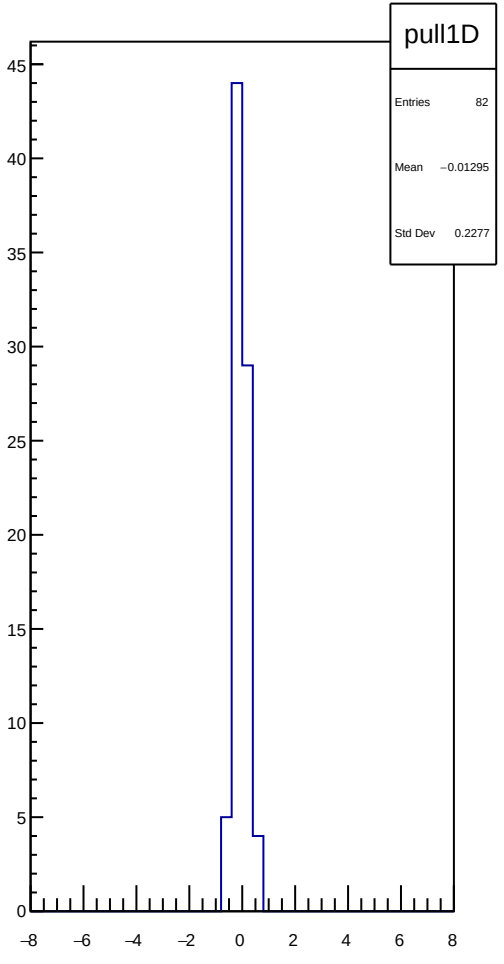

pull1D
Entries 82
Mean −0.1417
Std Dev 0.6341

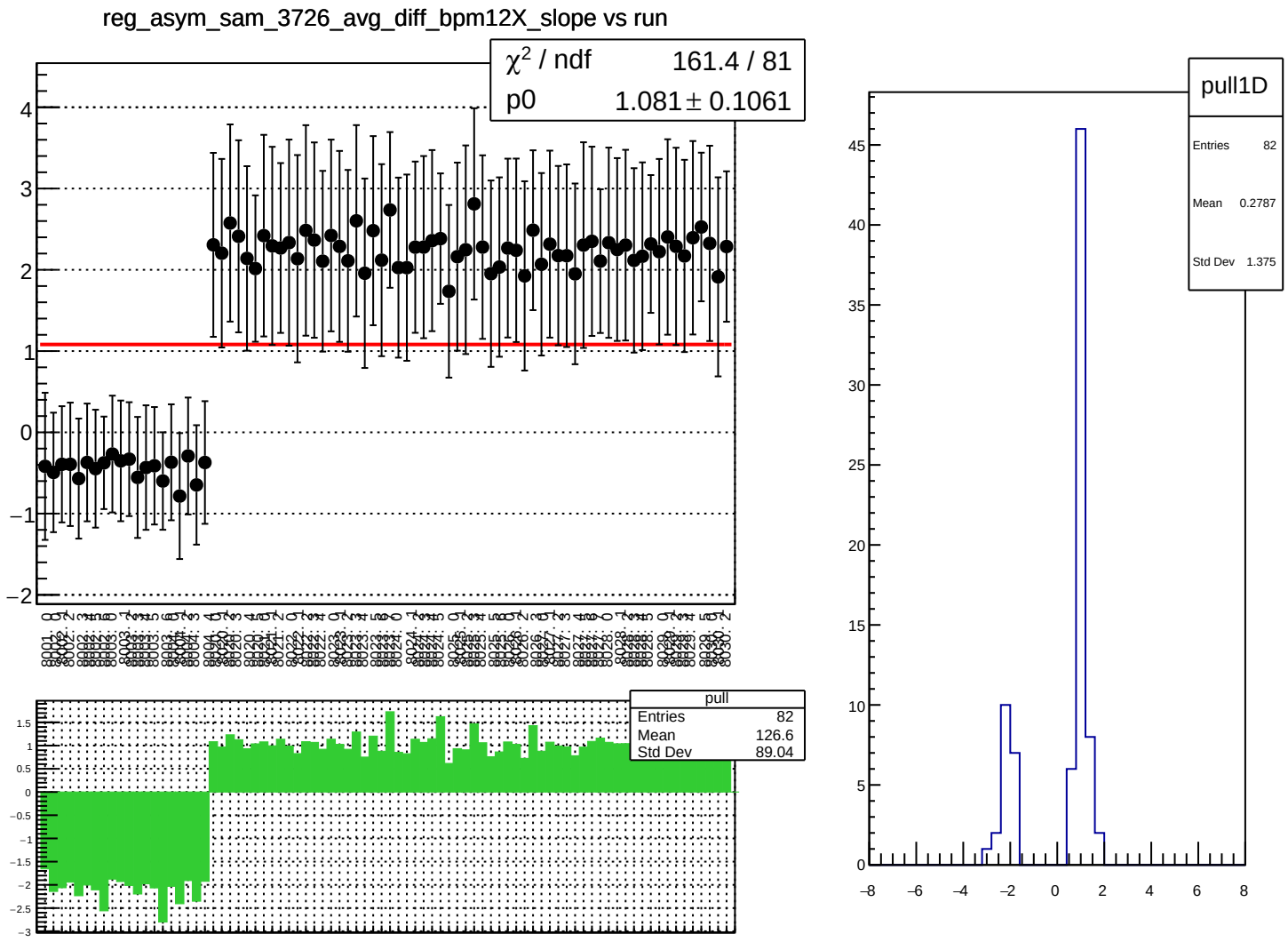

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.444 / 81
p0 −10.45 ± 2.077
pull
Entries 82
Mean −148.4
Std Dev 193.3
pull1D
Entries 82
Mean 0.01124
Std Dev 0.2325

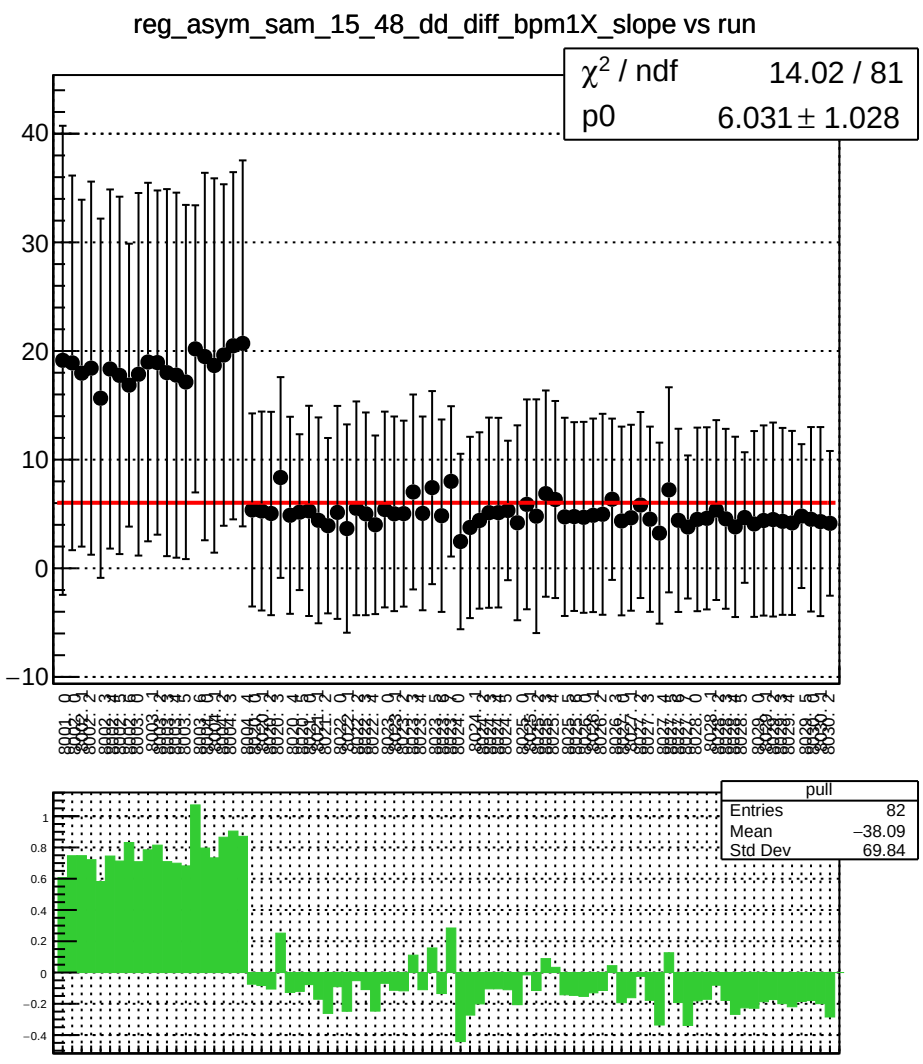

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.89 / 81
p0 −48.99 ± 1.356
pull
Entries 82
Mean −61.01
Std Dev 95.72

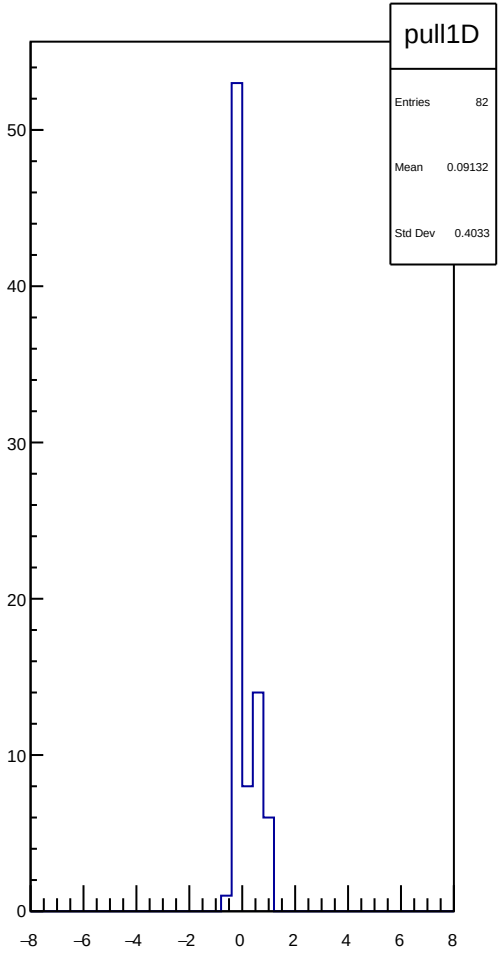

pull1D
Entries 82
Mean 0.08685
Std Dev 0.4973

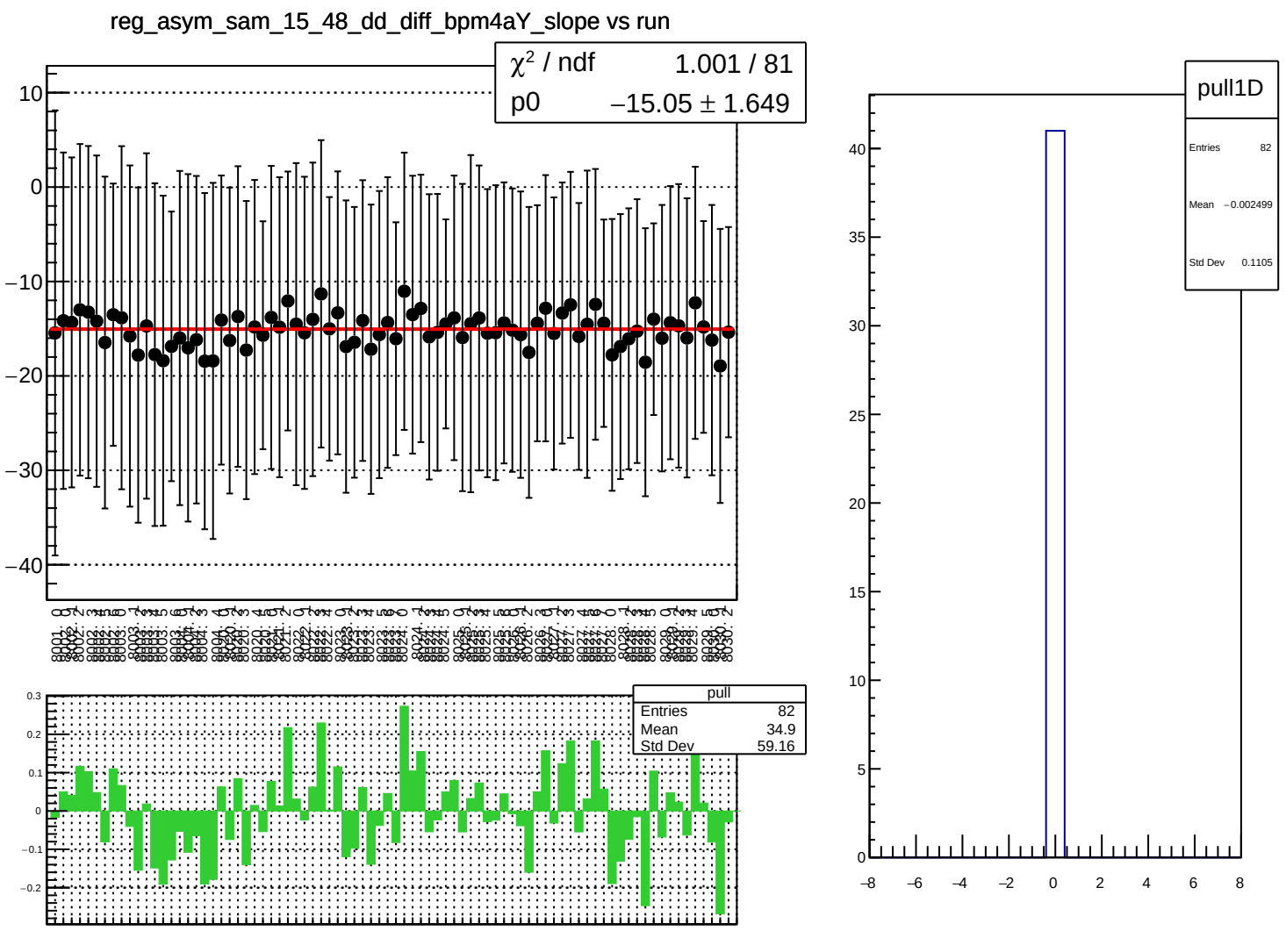

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.264 / 81
p0 −1.321± 2.224
pull
Entries 82
Mean −103.5
Std Dev 145.6

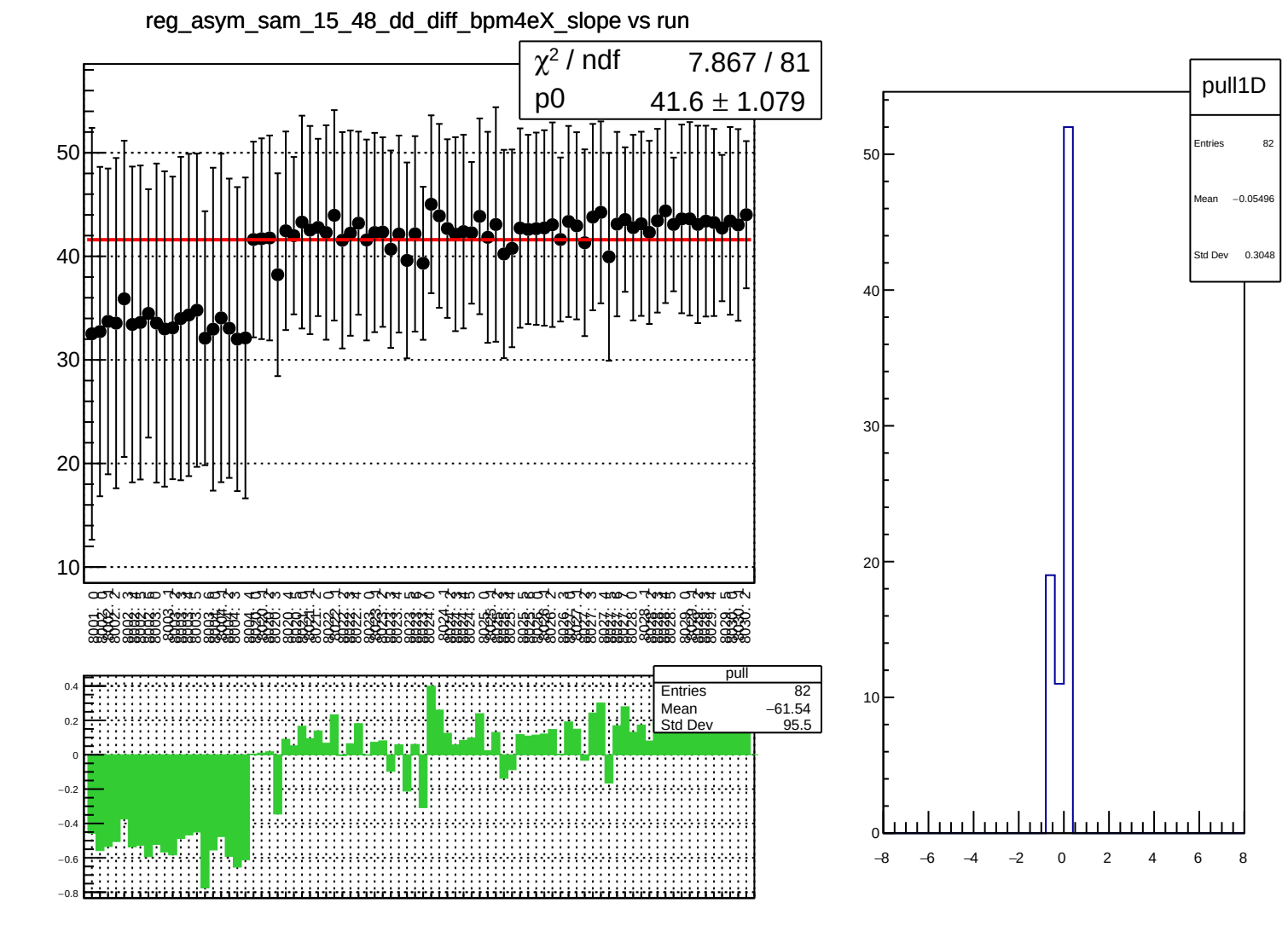

pull1D
Entries 82
Mean −0.01295
Std Dev 0.2277

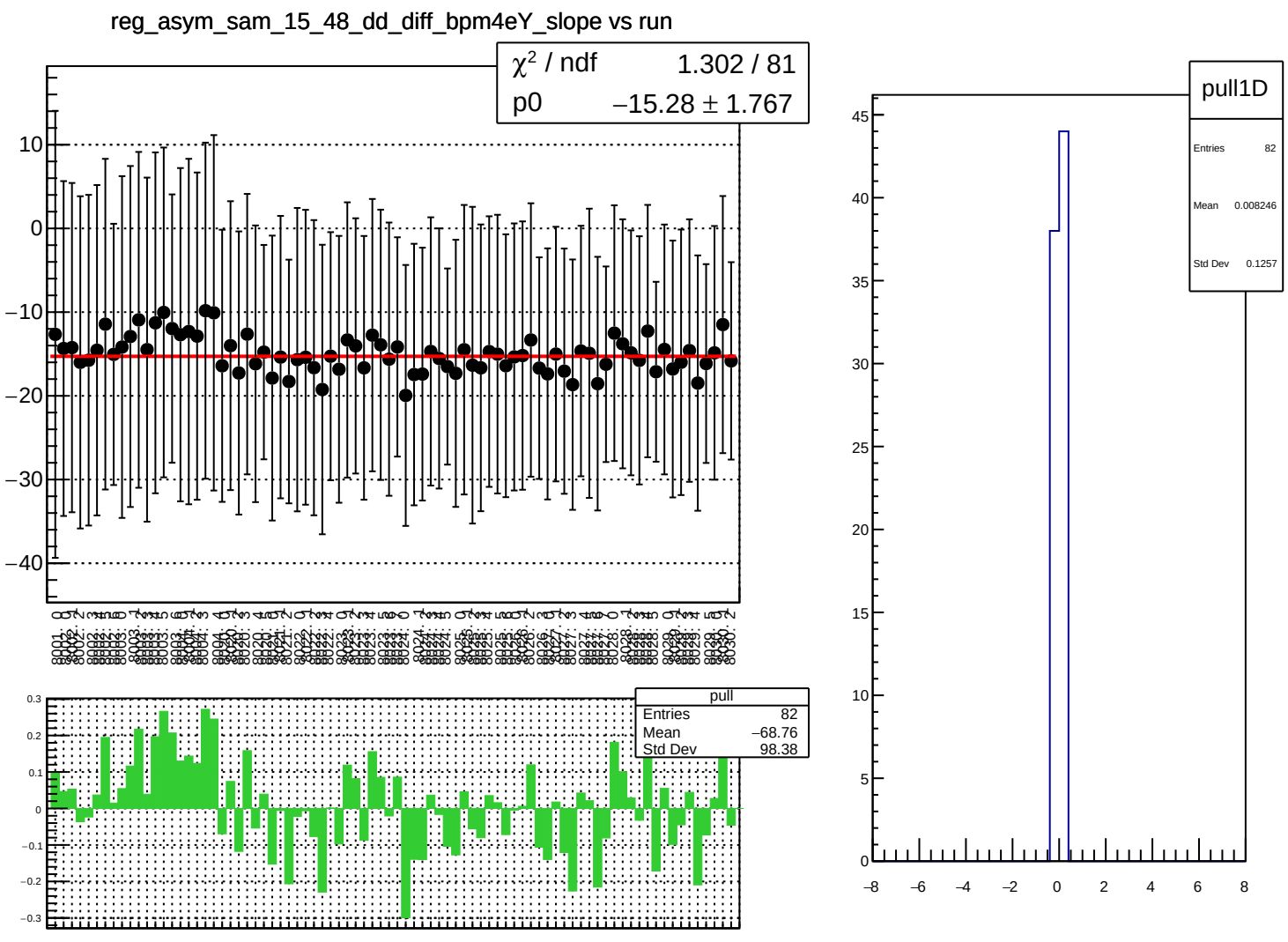

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 161.4 / 81
p0 1.081 ± 0.1061
pull
Entries 82
Mean 126.6
Std Dev 89.04
pull1D
Entries 82
Mean 0.2787
Std Dev 1.375

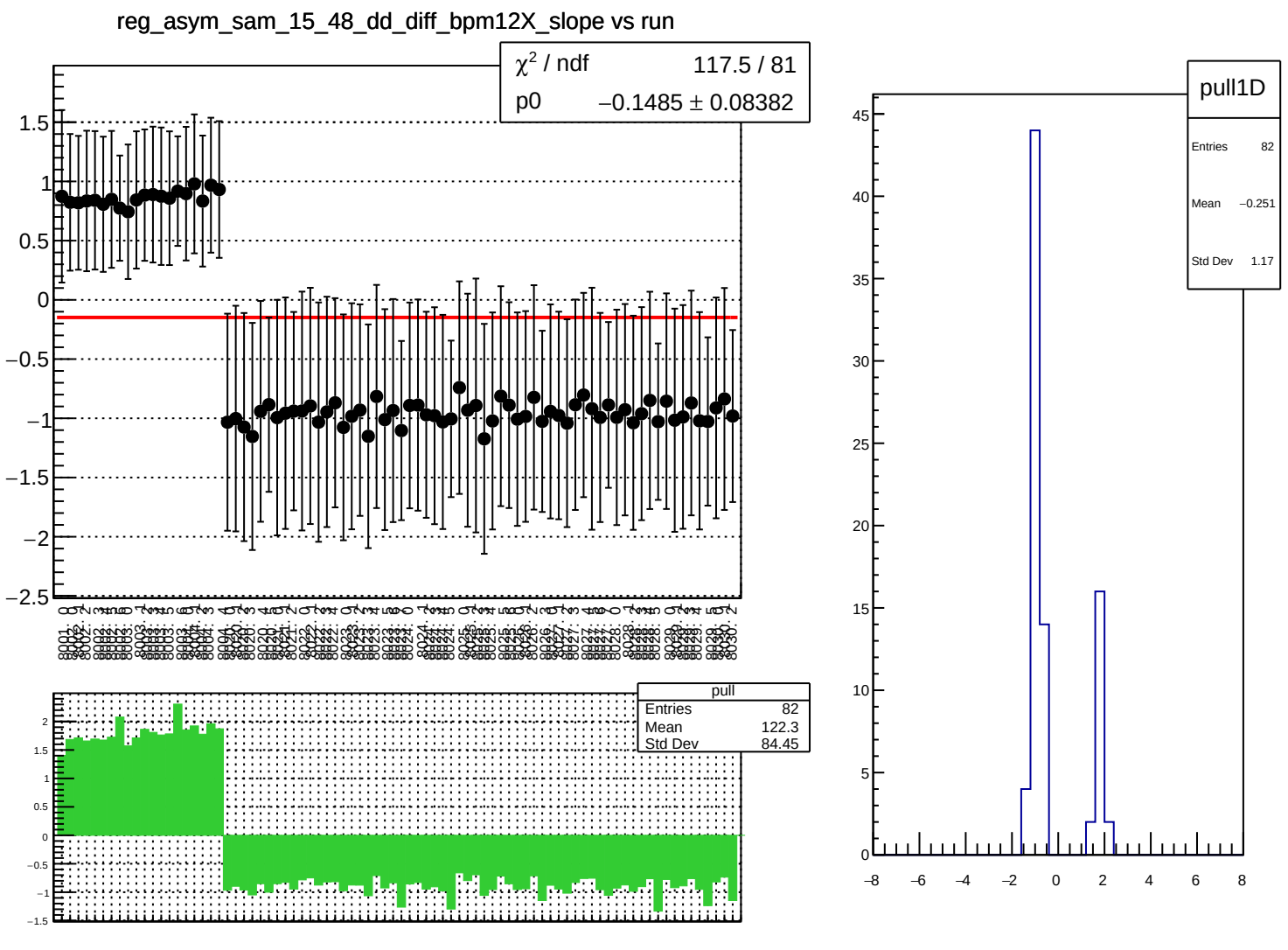

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 14.02 / 81
p0 6.031 ± 1.028
pull
Entries 82
Mean −38.09
Std Dev 69.84

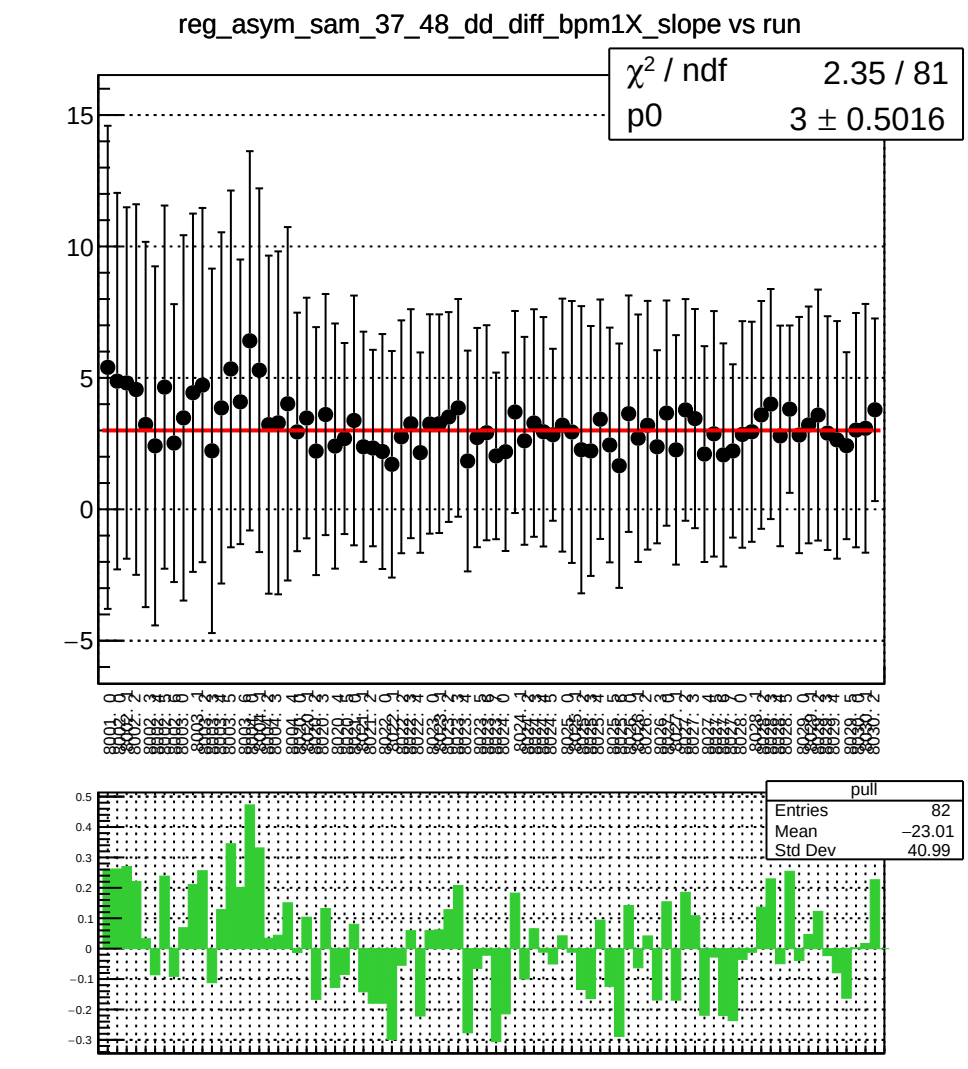

pull1D
Entries 82
Mean 0.09132
Std Dev 0.4033

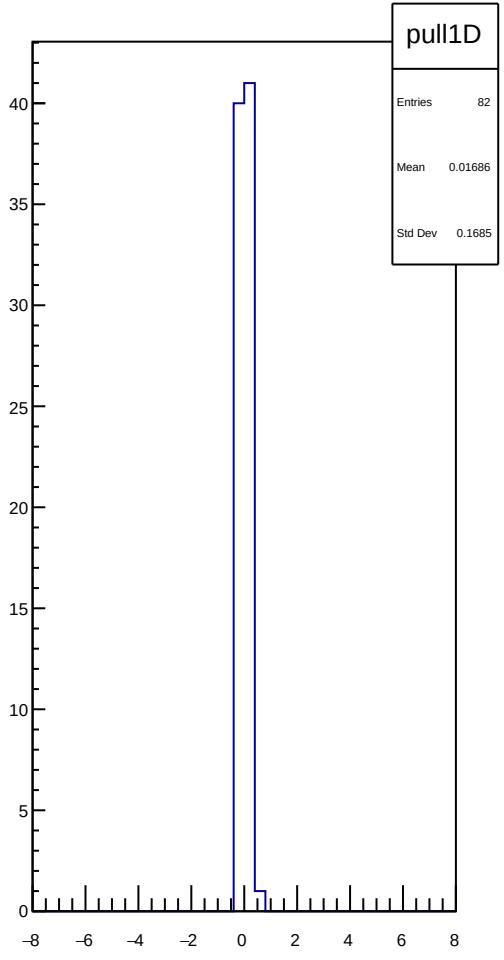

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.001 / 81
p0 −15.05 ± 1.649
pull
Entries 82
Mean 34.9
Std Dev 59.16
pull1D
Entries 82
Mean −0.002499
Std Dev 0.1105

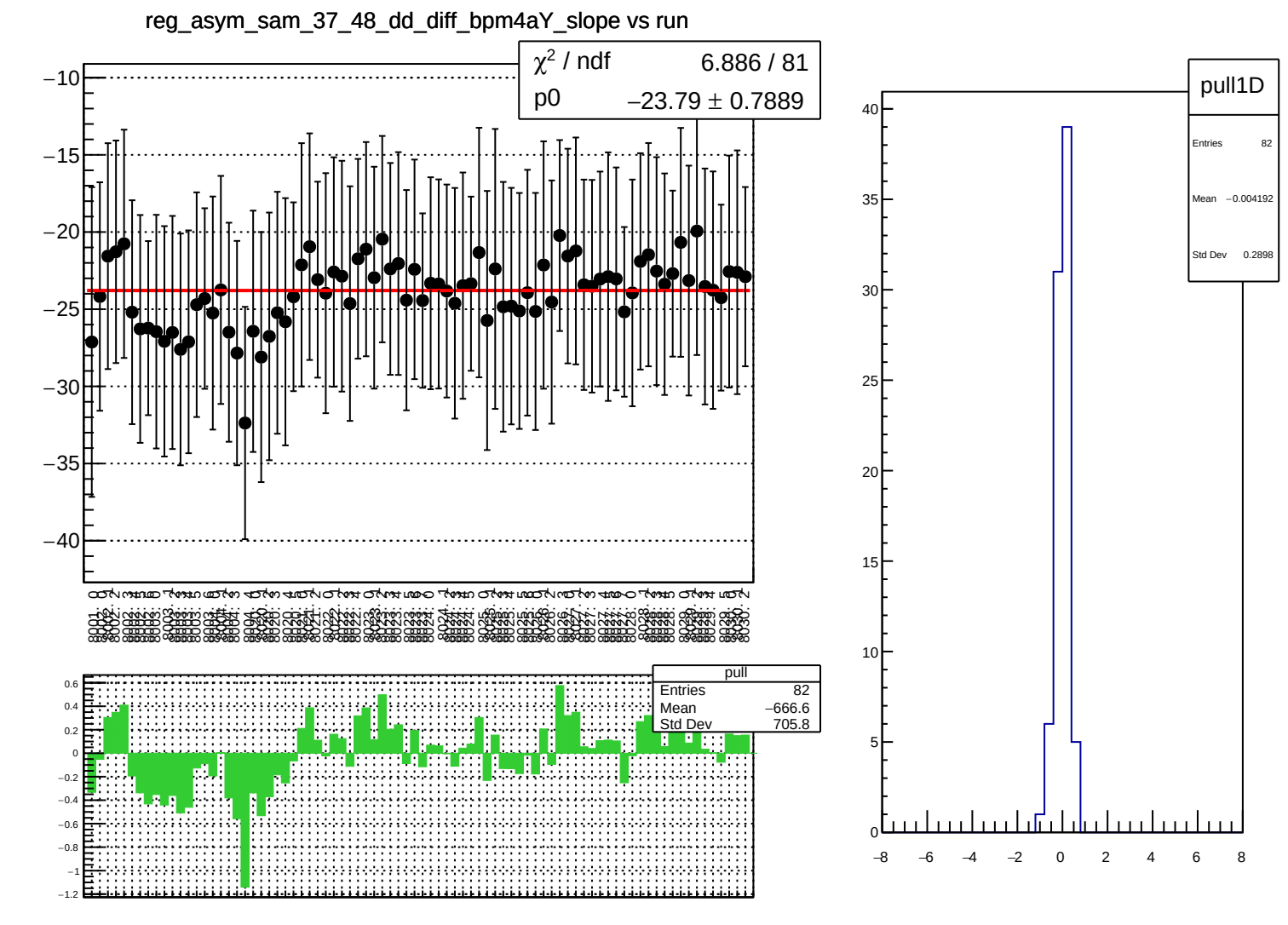

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.867 / 81
p0 41.6 ± 1.079
pull
Entries 82
Mean −61.54
Std Dev 95.5
pull1D
Entries 82
Mean −0.05496
Std Dev 0.3048

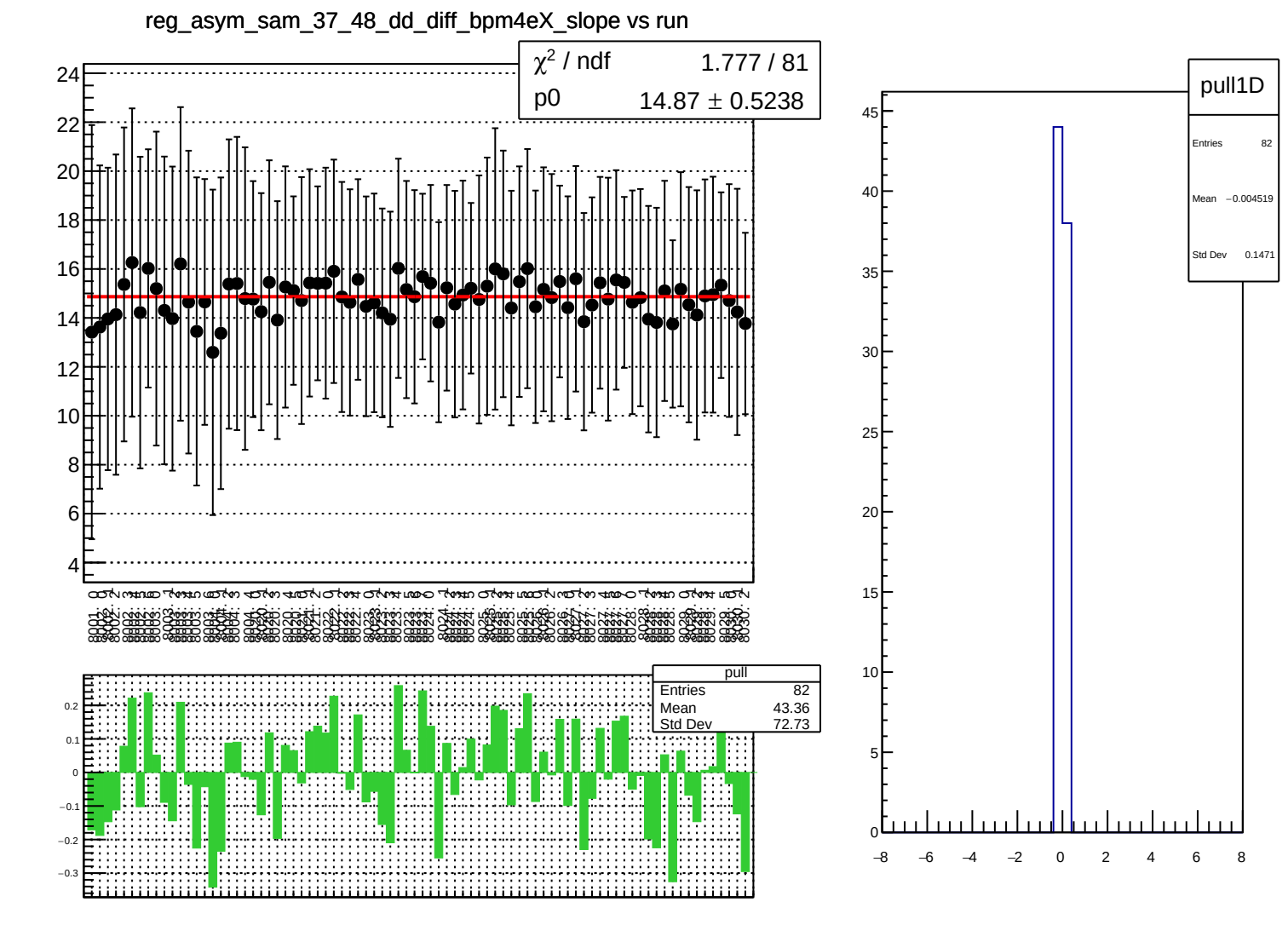

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.302 / 81
p0 −15.28 ± 1.767
pull
Entries 82
Mean −68.76
Std Dev 98.38
pull1D
Entries 82
Mean 0.008246
Std Dev 0.1257

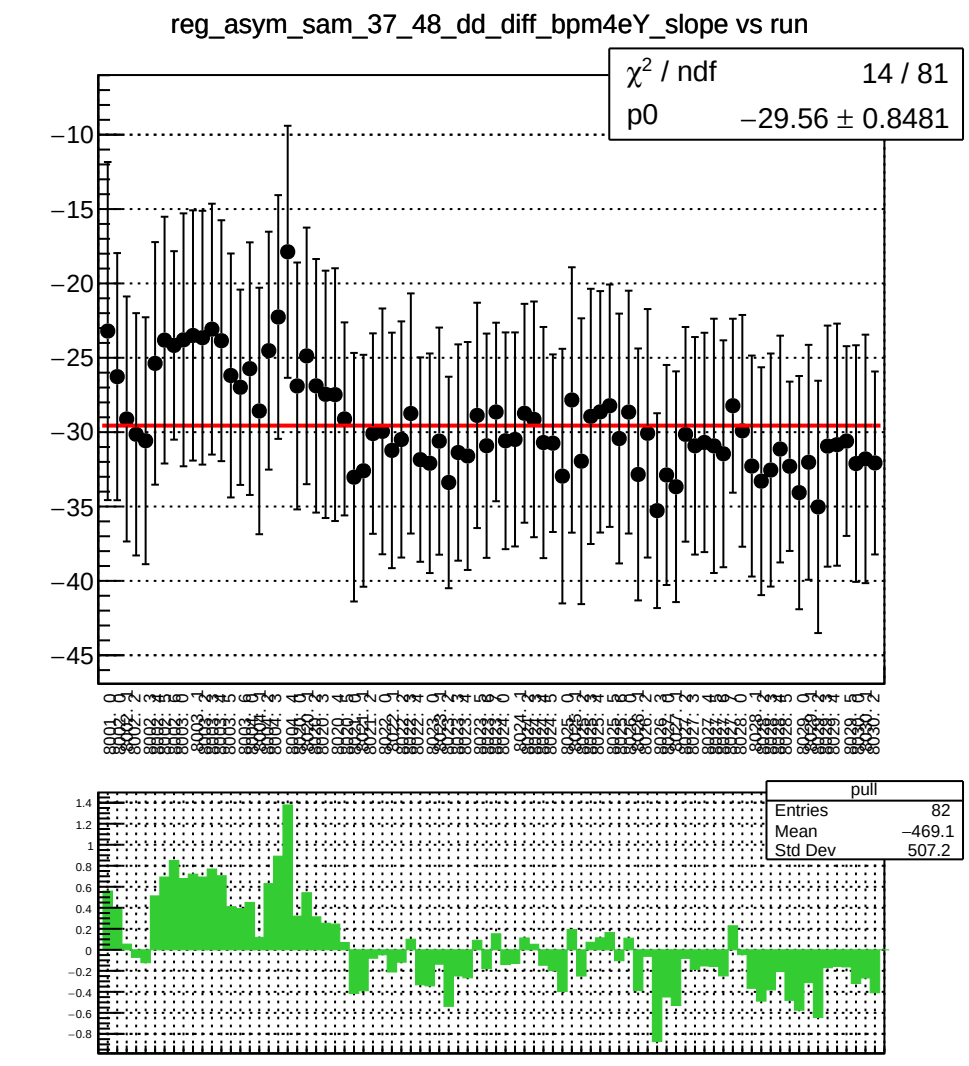

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 117.5 / 81
p0 −0.1485 ± 0.08382
pull
Entries 82
Mean 122.3
Std Dev 84.45
pull1D
Entries 82
Mean −0.251
Std Dev 1.17

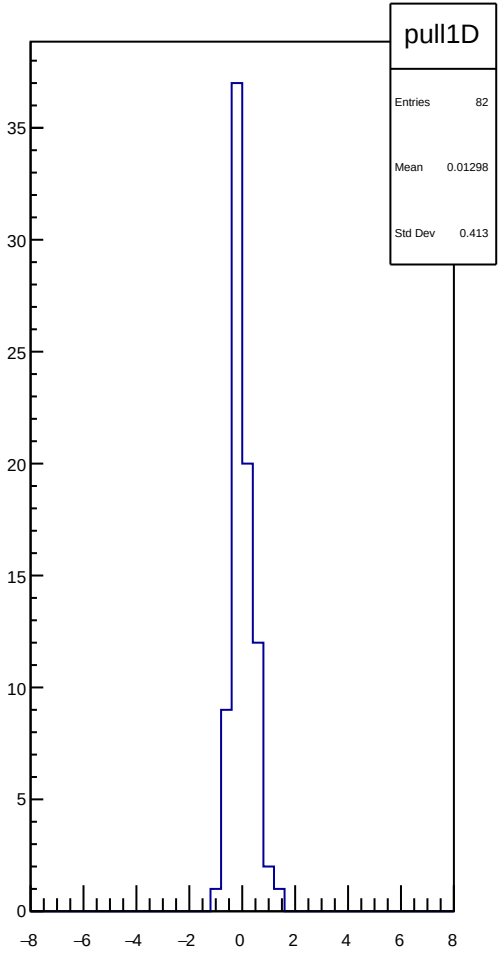

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.35 / 81
p0 3 ± 0.5016
pull
Entries 82
Mean −23.01
Std Dev 40.99

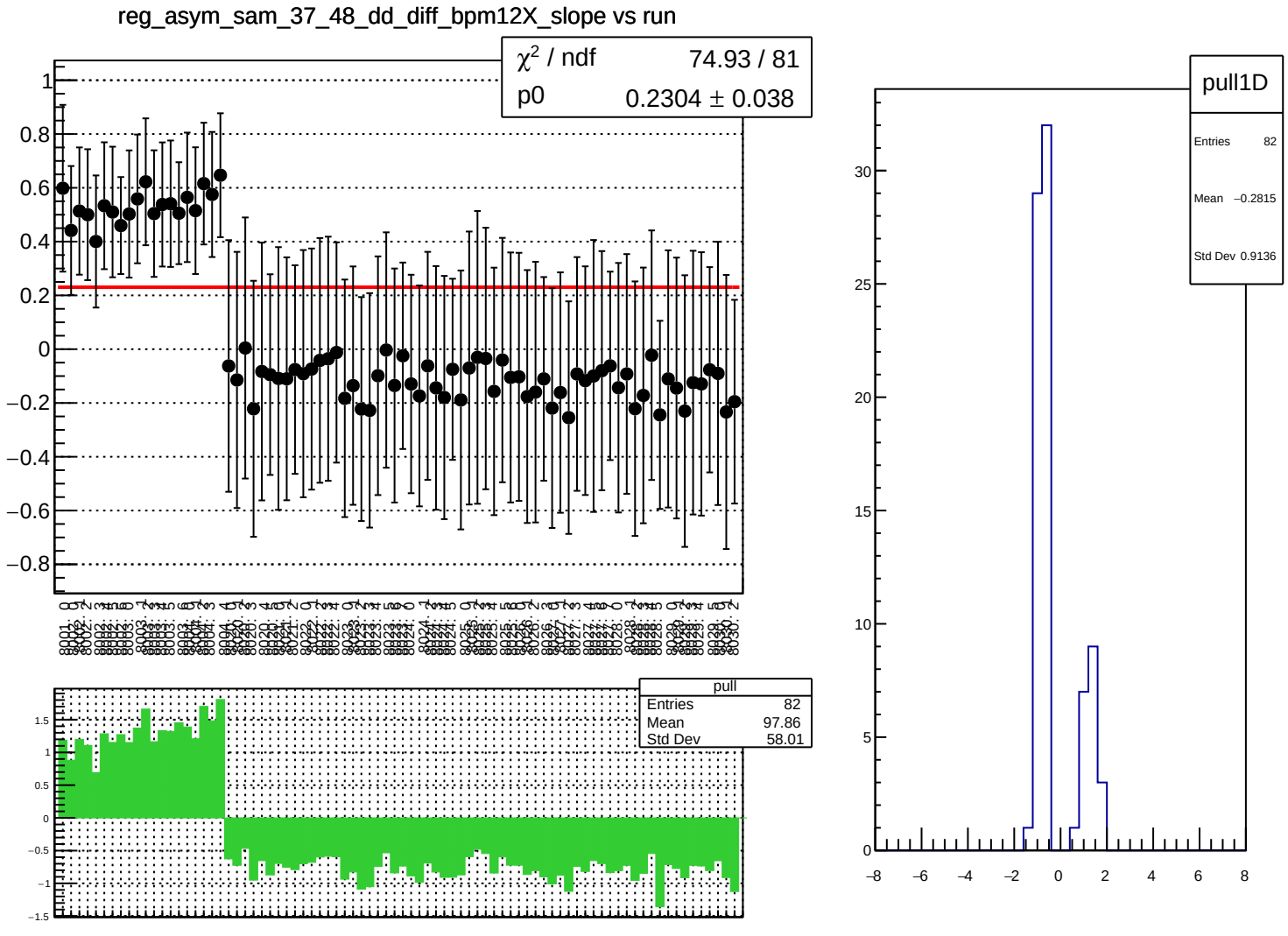

pull1D
Entries 82
Mean 0.01686
Std Dev 0.1685

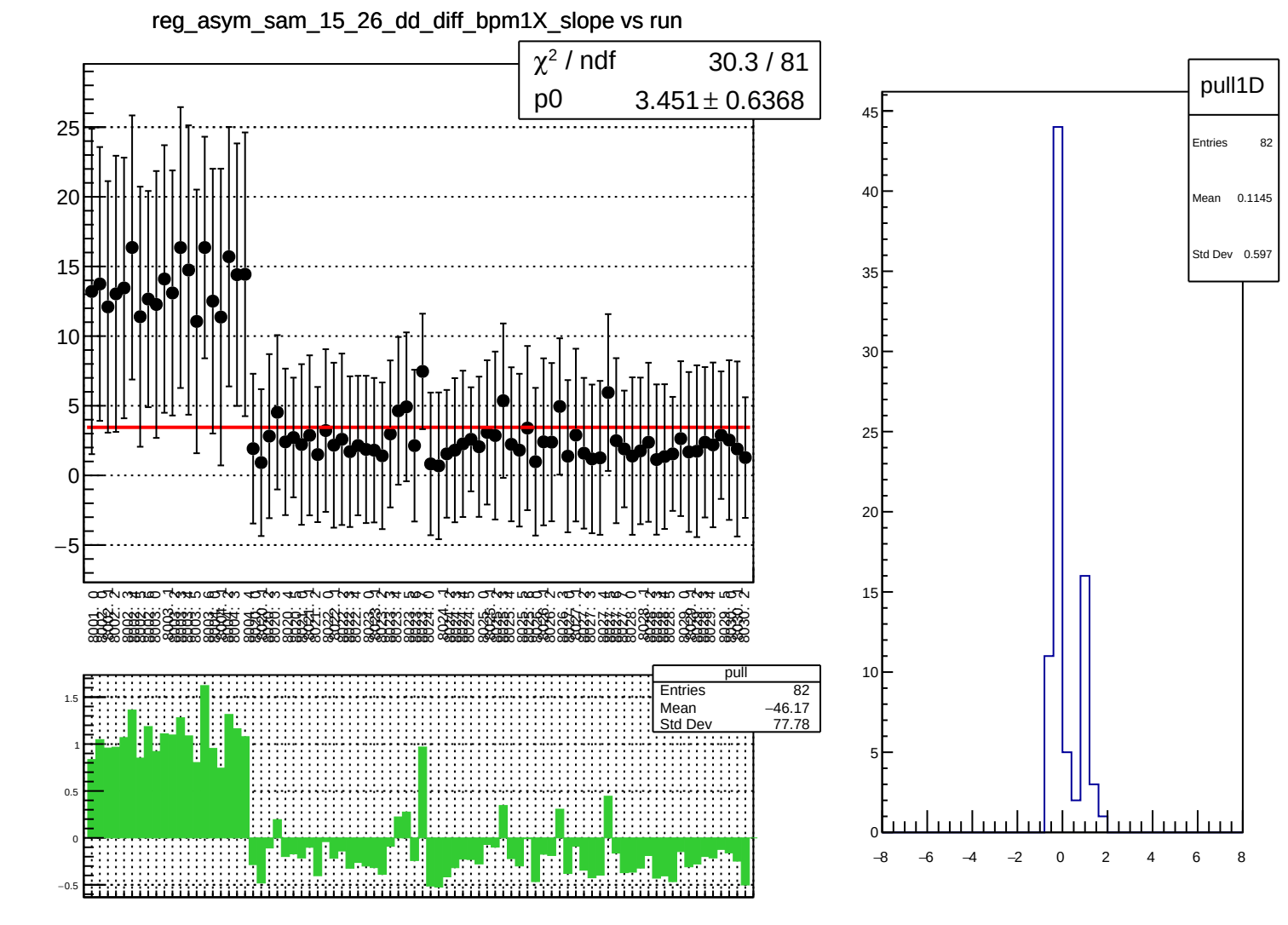

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.886 / 81
p0 −23.79 ± 0.7889
pull
Entries 82
Mean −666.6
Std Dev 705.8
pull1D
Entries 82
Mean −0.004192
Std Dev 0.2898

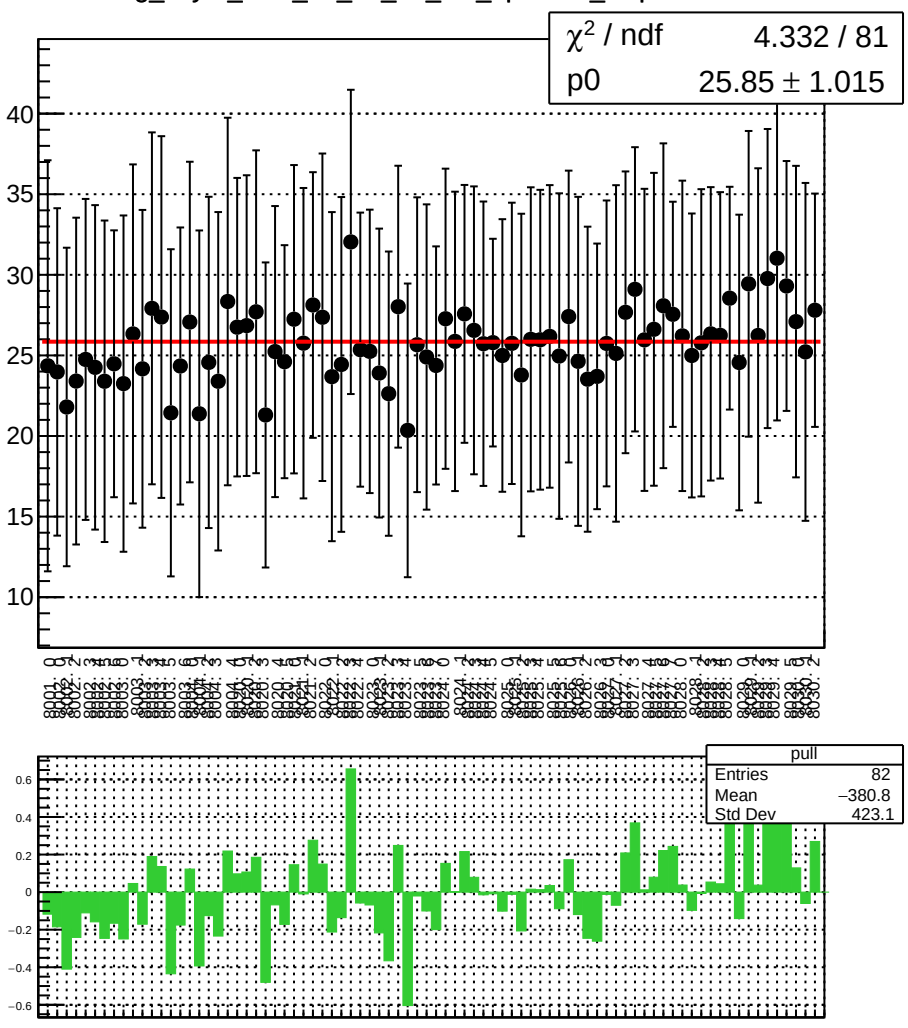

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.777 / 81
p0 14.87 ± 0.5238
pull
Entries 82
Mean 43.36
Std Dev 72.73
pull1D
Entries 82
Mean −0.004519
Std Dev 0.1471

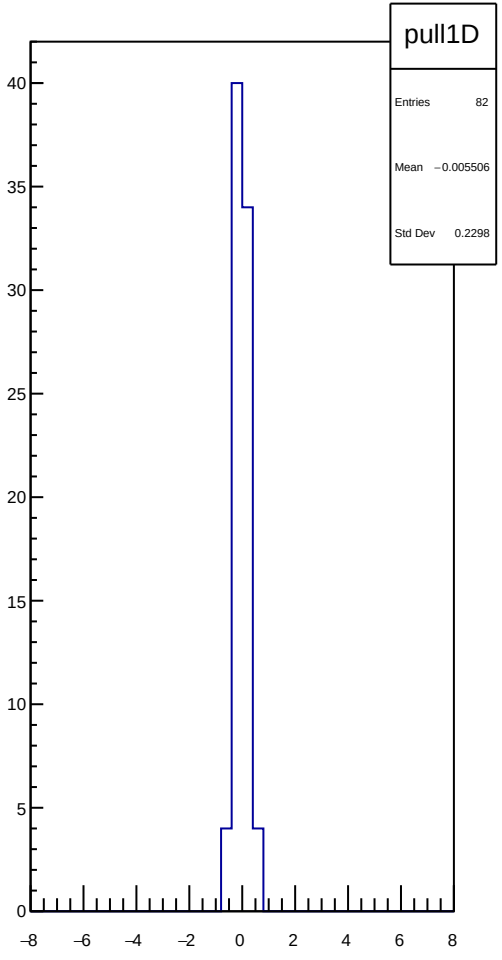

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 14 / 81
p0 −29.56 ± 0.8481
pull
Entries 82
Mean −469.1
Std Dev 507.2

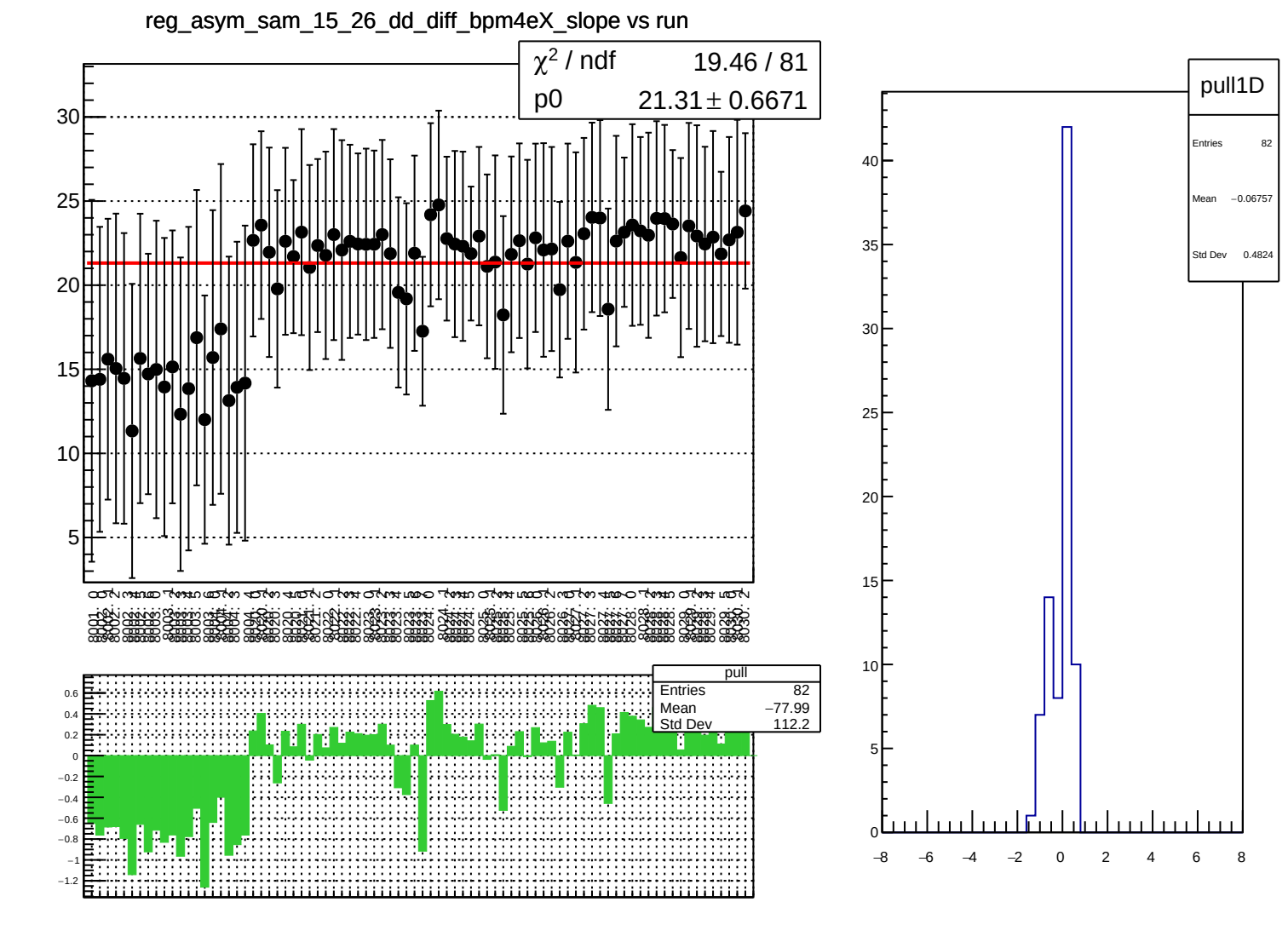

pull1D
Entries 82
Mean 0.01298
Std Dev 0.413

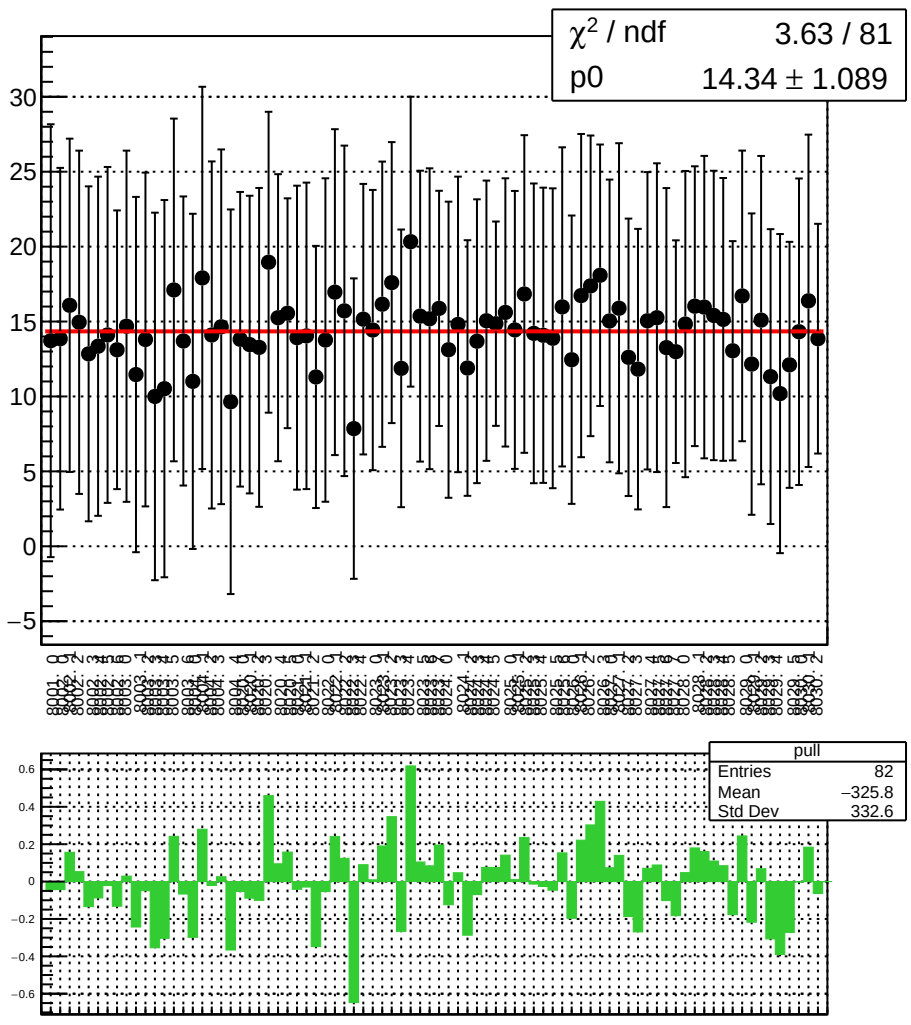

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 74.93 / 81
p0 0.2304 ± 0.038
pull
Entries 82
Mean 97.86
Std Dev 58.01
pull1D
Entries 82
Mean −0.2815
Std Dev 0.9136

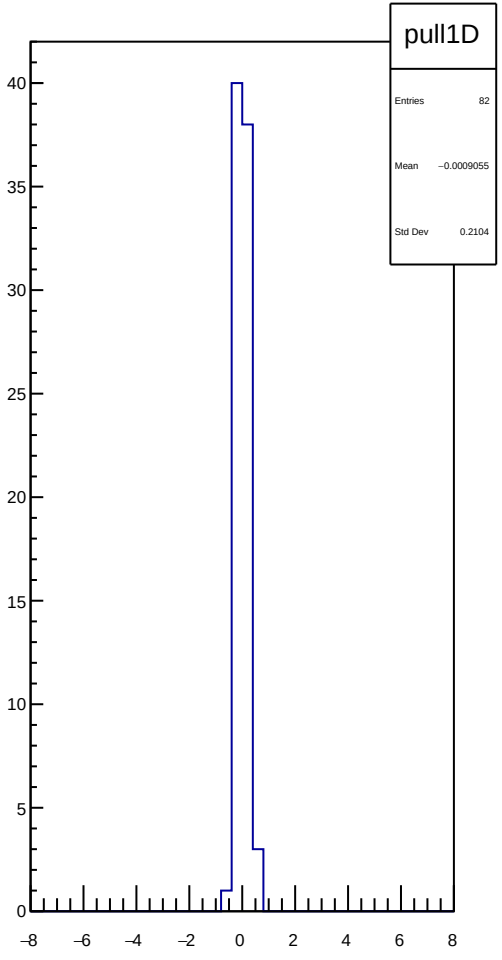

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 30.3 / 81
p0 3.451 ± 0.6368
pull
Entries 82
Mean −46.17
Std Dev 77.78
pull1D
Entries 82
Mean 0.1145
Std Dev 0.597

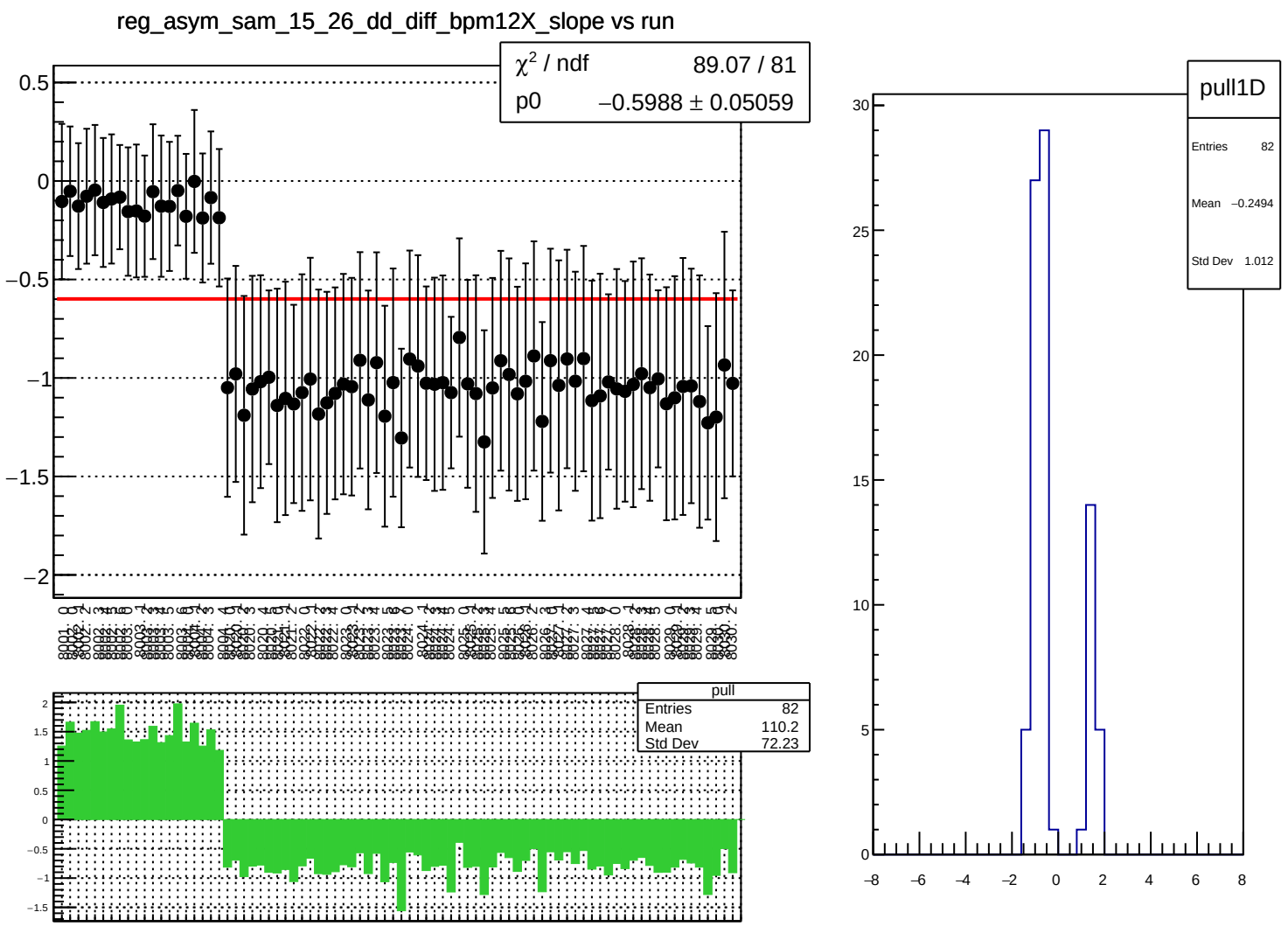

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.332 / 81
p0 25.85 ± 1.015
pull
Entries 82
Mean −380.8
Std Dev 423.1

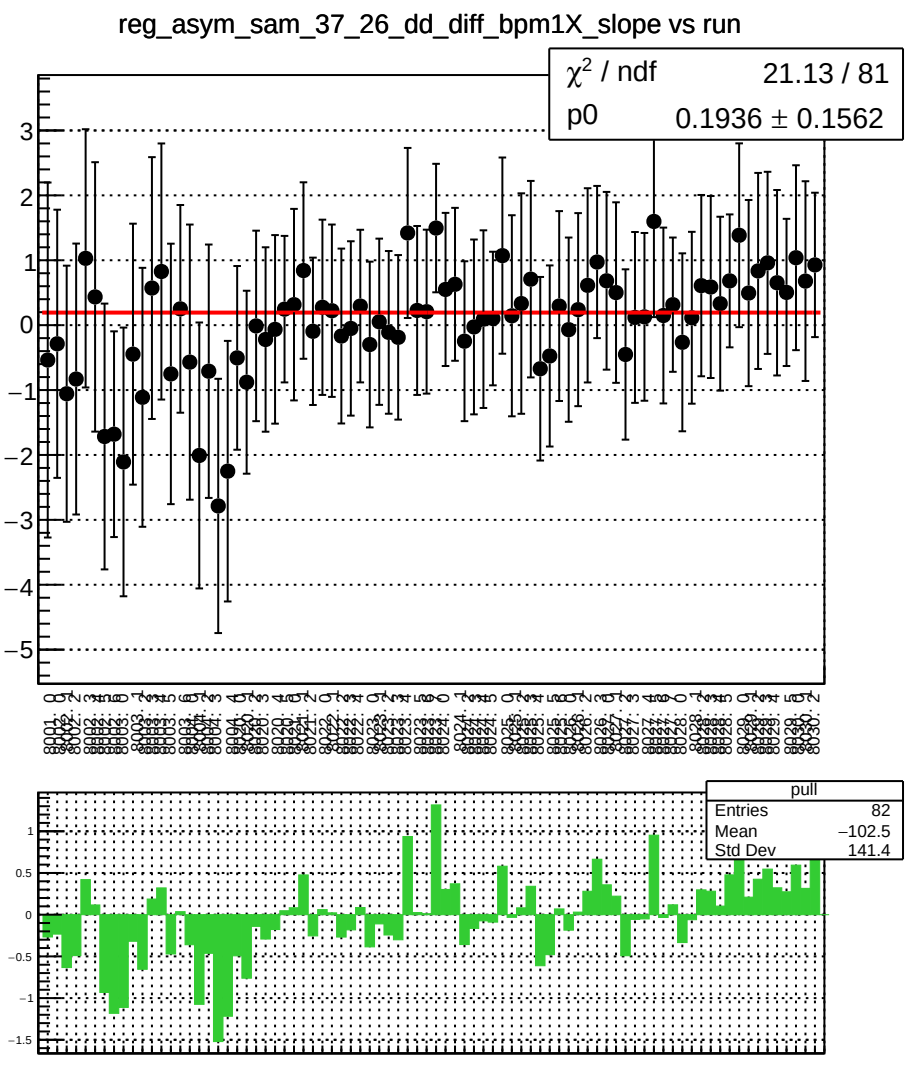

pull1D
Entries 82
Mean −0.005506
Std Dev 0.2298

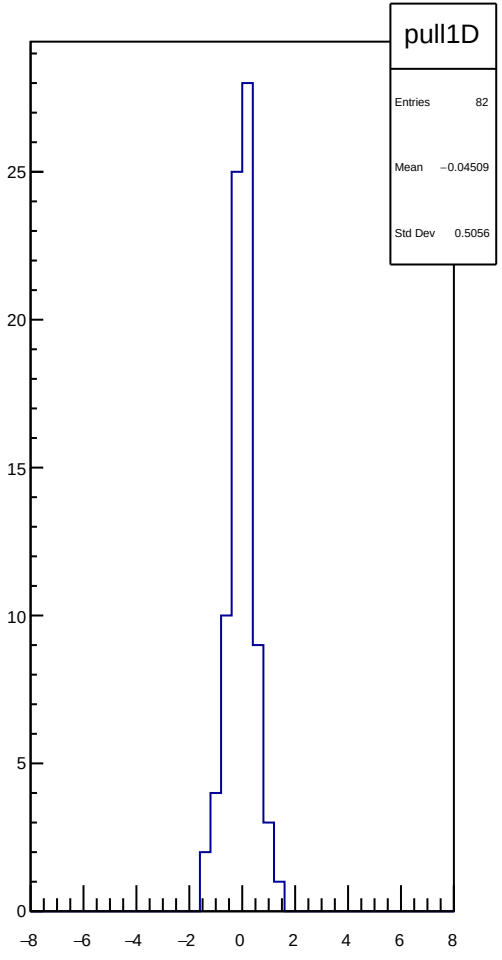

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.46 / 81
p0 21.31 ± 0.6671
pull
Entries 82
Mean −77.99
Std Dev 112.2
pull1D
Entries 82
Mean −0.06757
Std Dev 0.4824

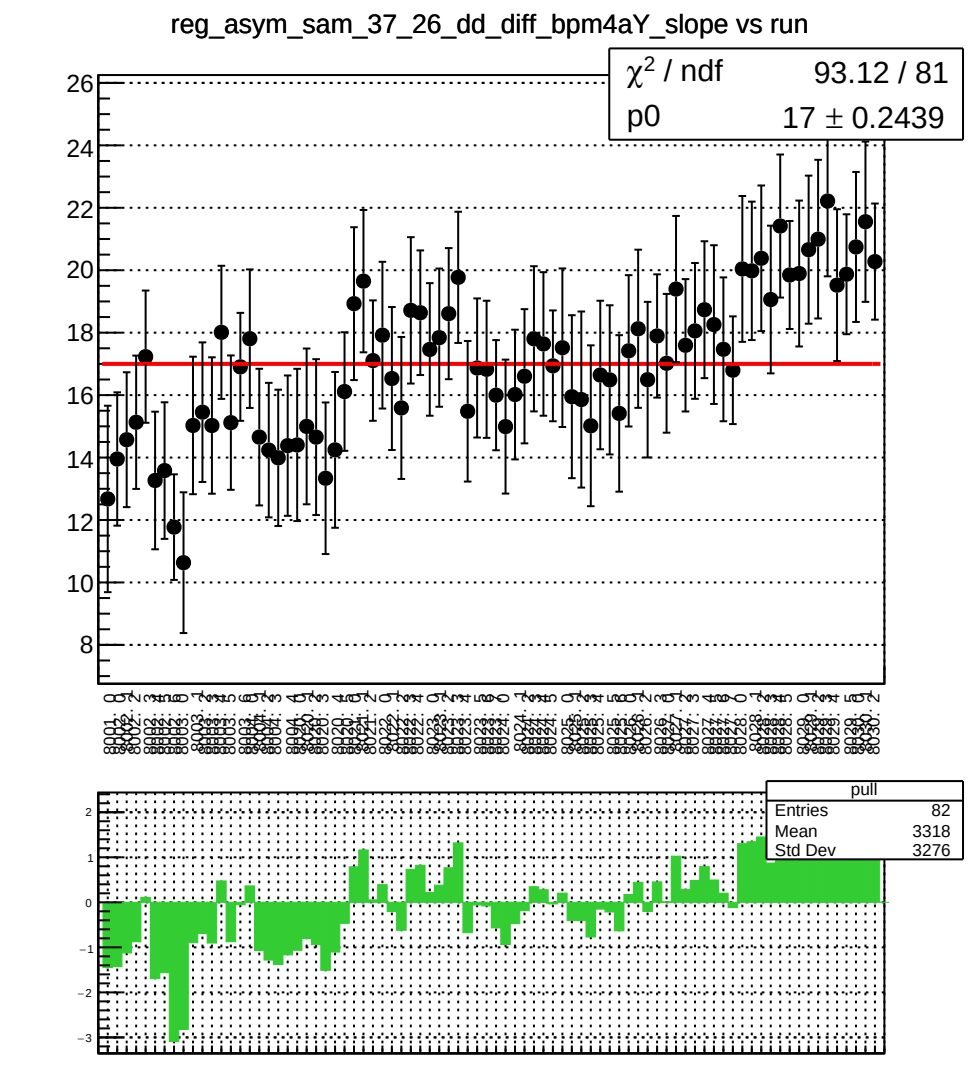

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.63 / 81
p0 14.34 ± 1.089
pull
Entries 82
Mean −325.8
Std Dev 332.6

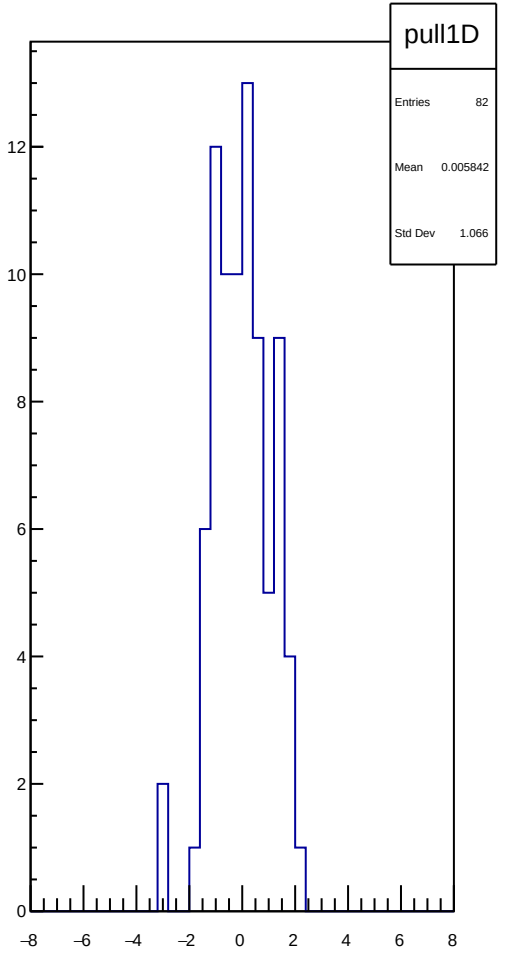

pull1D
Entries 82
Mean −0.0009055
Std Dev 0.2104

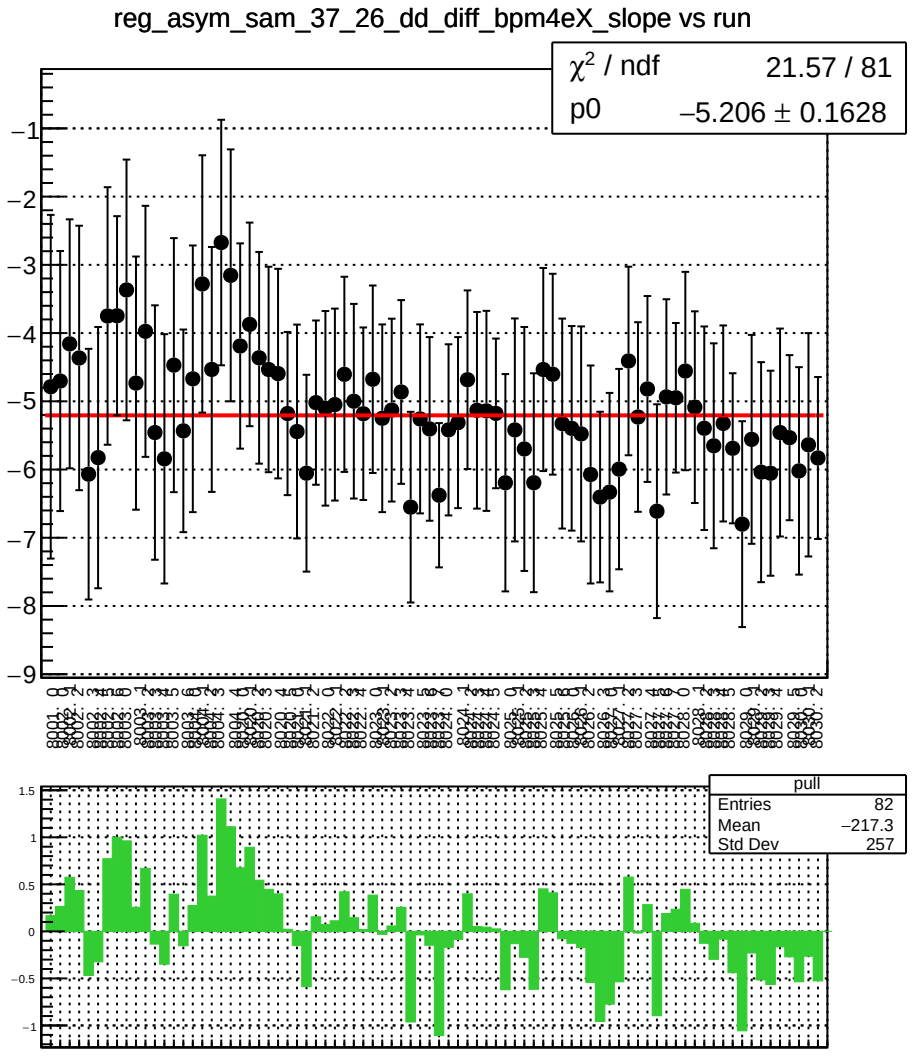

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 89.07 / 81
p0 −0.5988 ± 0.05059
pull
Entries 82
Mean 110.2
Std Dev 72.23
pull1D
Entries 82
Mean −0.2494
Std Dev 1.012

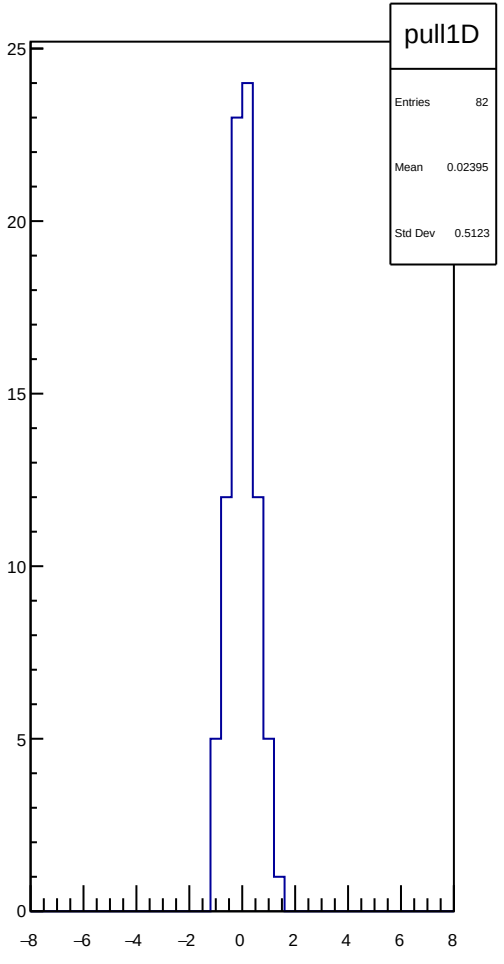

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 21.13 / 81
p0 0.1936 ± 0.1562
pull
Entries 82
Mean −102.5
Std Dev 141.4

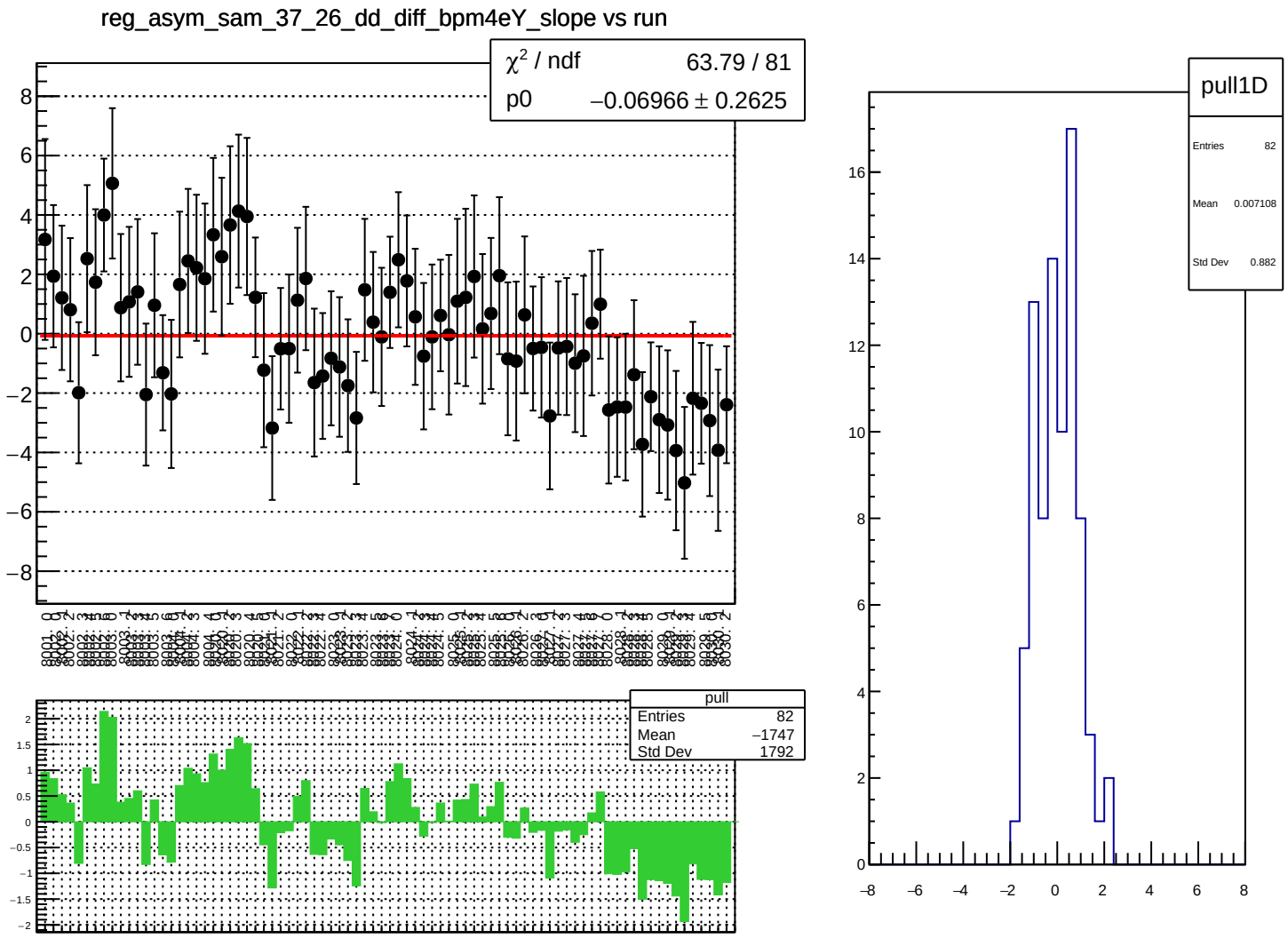

pull1D
Entries 82
Mean −0.04509
Std Dev 0.5056

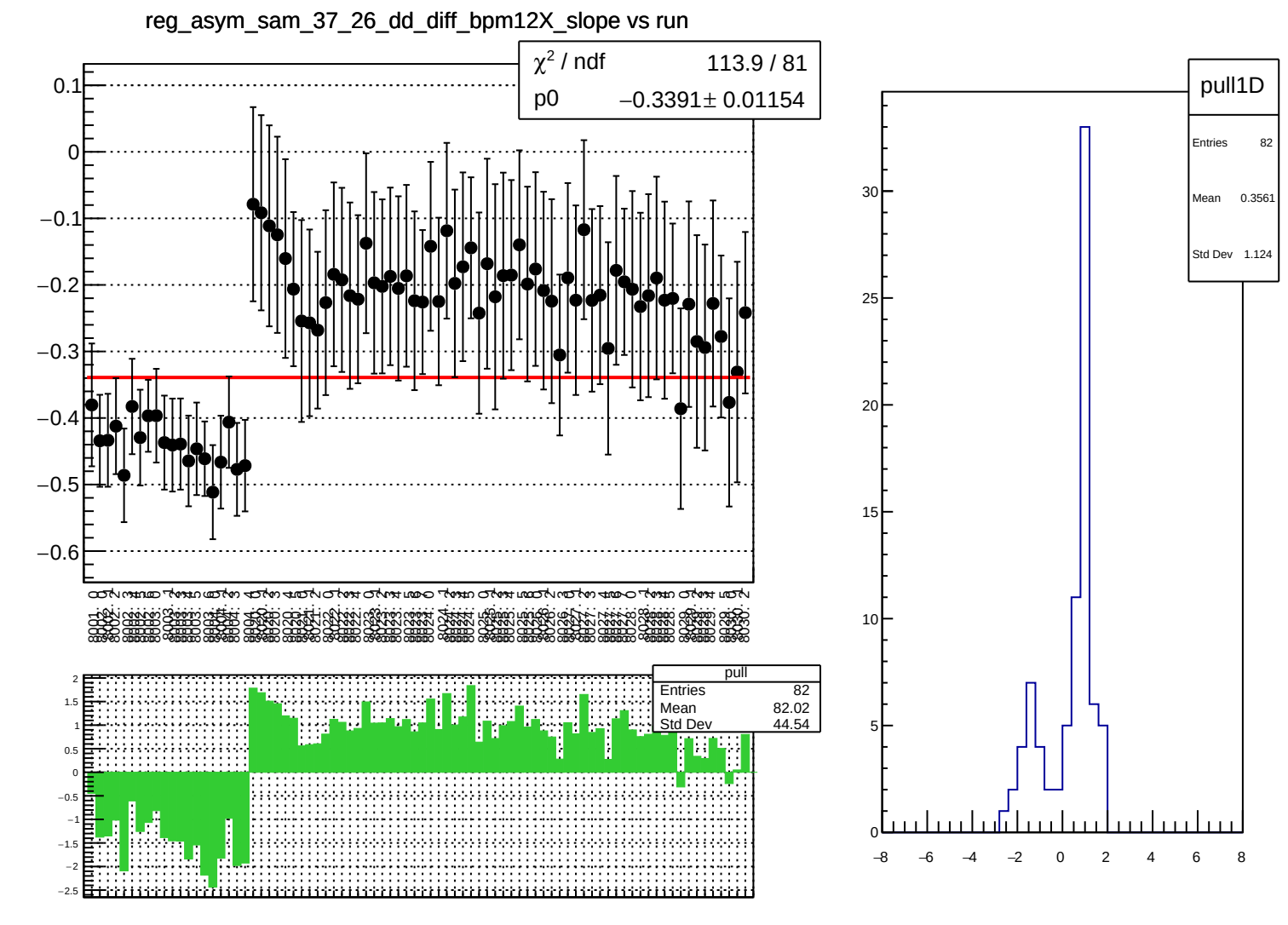

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 93.12 / 81
p0 17 ± 0.2439
pull
Entries 82
Mean 3318
Std Dev 3276

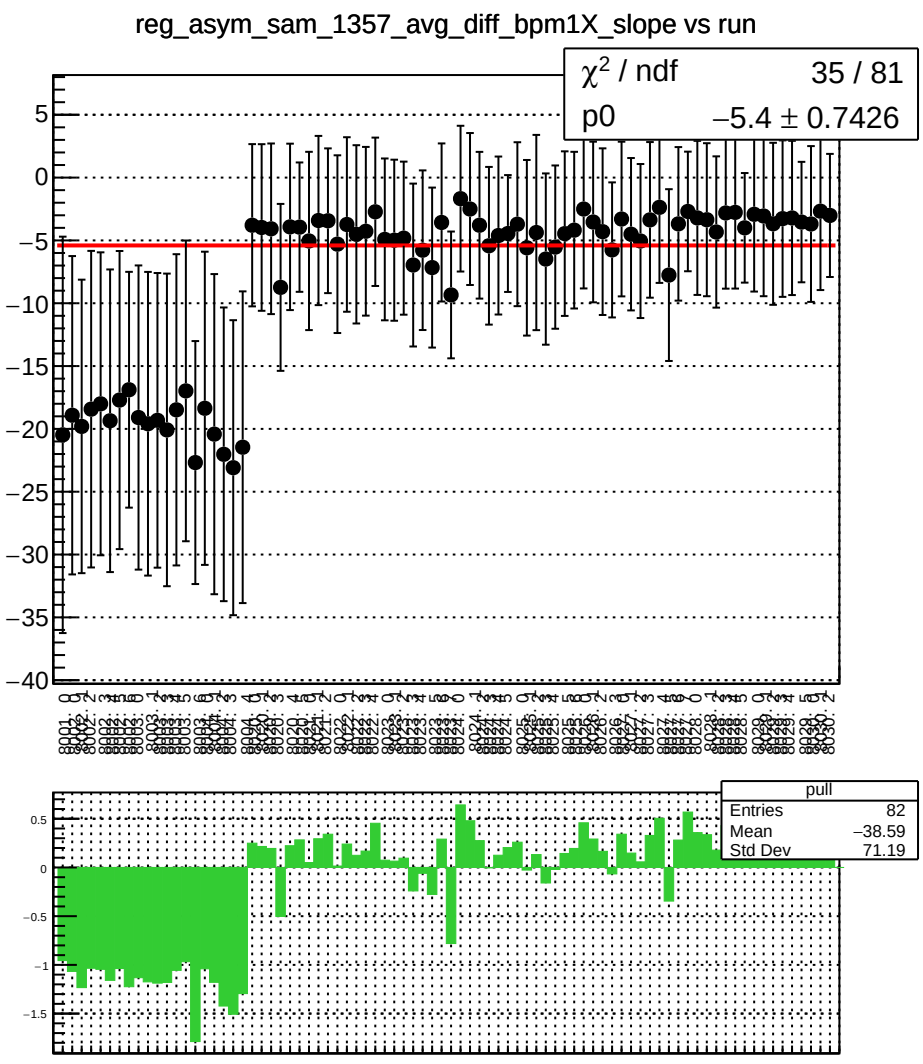

pull1D
Entries 82
Mean 0.005842
Std Dev 1.066

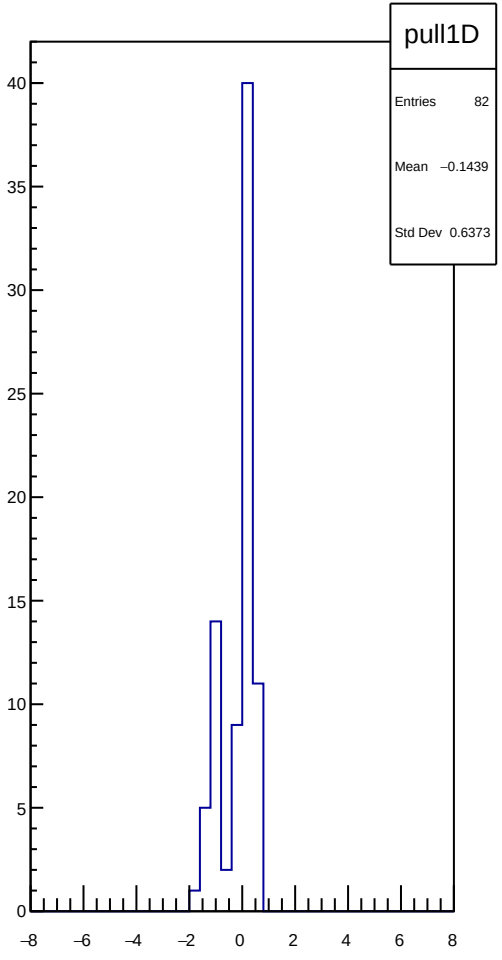

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.57 / 81
p0 −5.206 ± 0.1628
pull
Entries 82
Mean −217.3
Std Dev 257

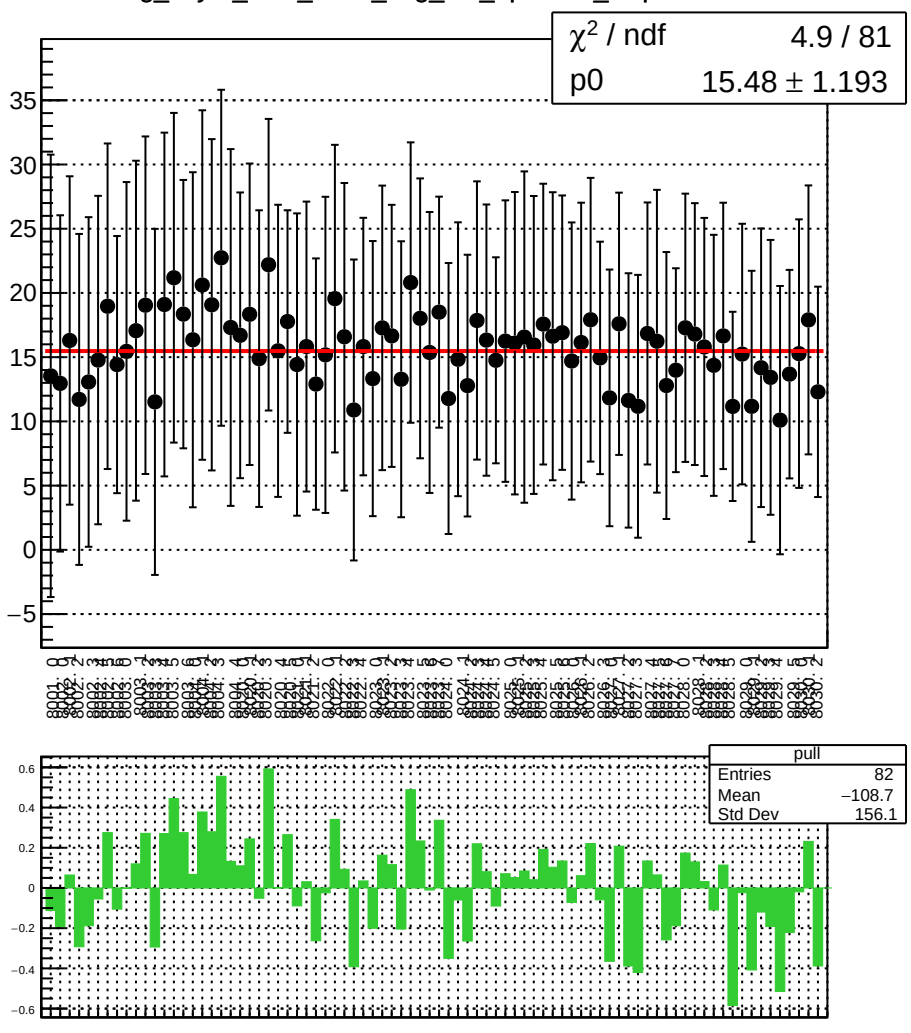

pull1D
Entries 82
Mean 0.02395
Std Dev 0.5123

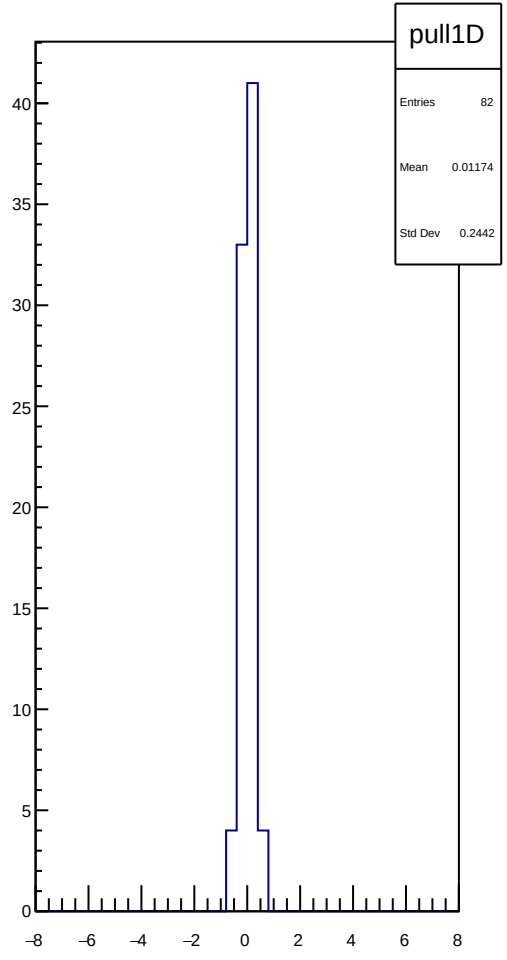

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 63.79 / 81
p0 −0.06966 ± 0.2625
pull
Entries 82
Mean −1747
Std Dev 1792
pull1D
Entries 82
Mean 0.007108
Std Dev 0.882

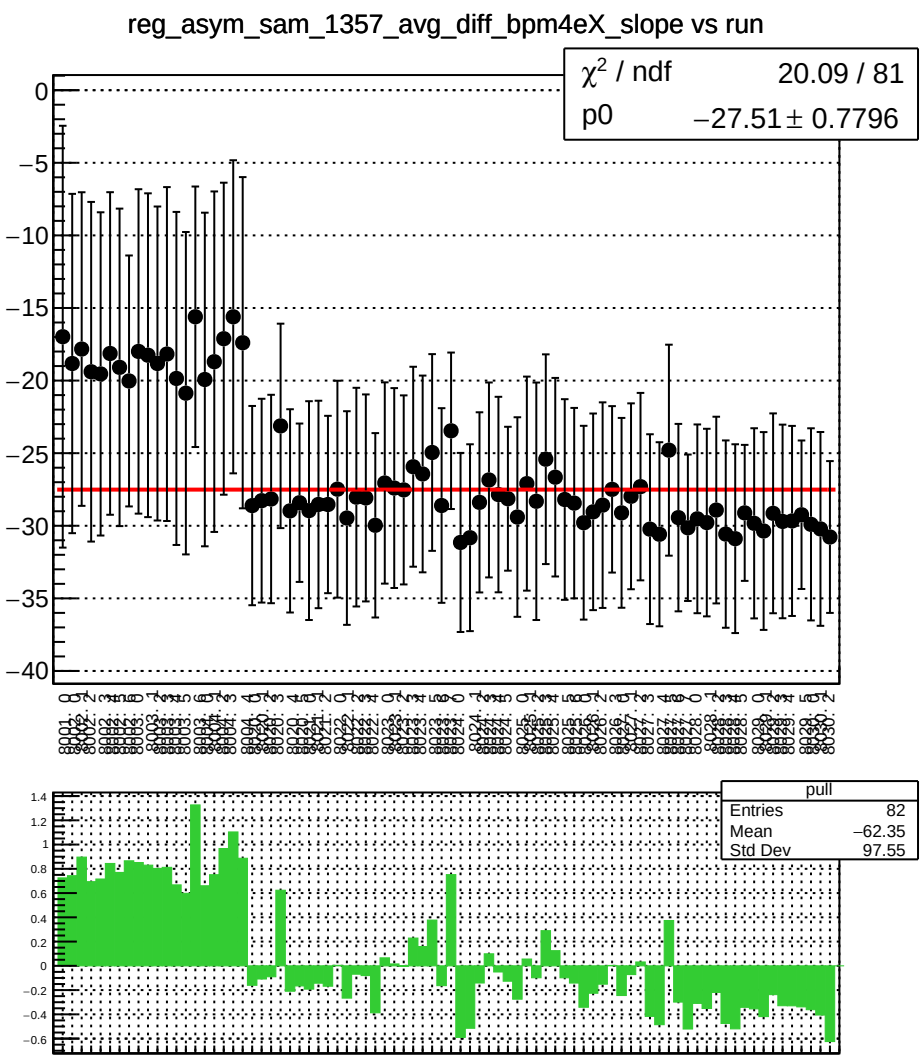

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 113.9 / 81
p0 −0.3391± 0.01154
pull
Entries 82
Mean 82.02
Std Dev 44.54
pull1D
Entries 82
Mean 0.3561
Std Dev 1.124

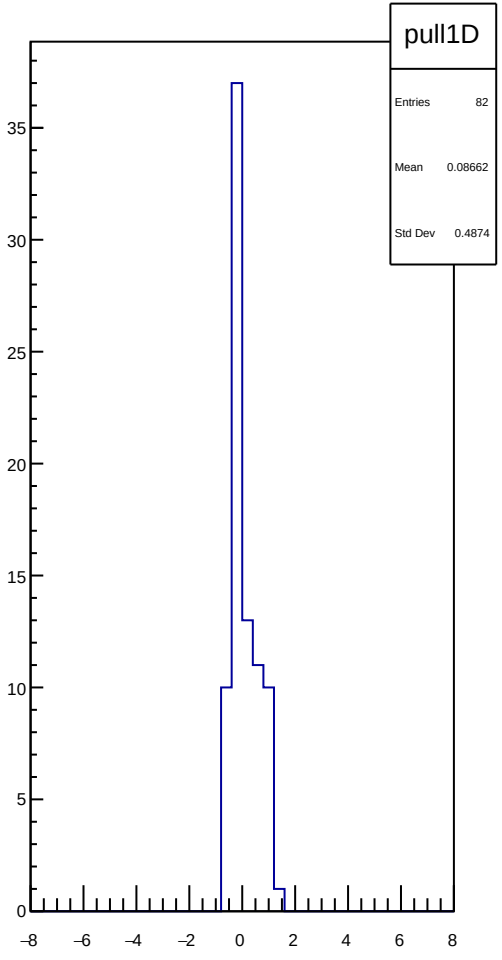

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 35 / 81
p0 −5.4 ± 0.7426
pull
Entries 82
Mean −38.59
Std Dev 71.19

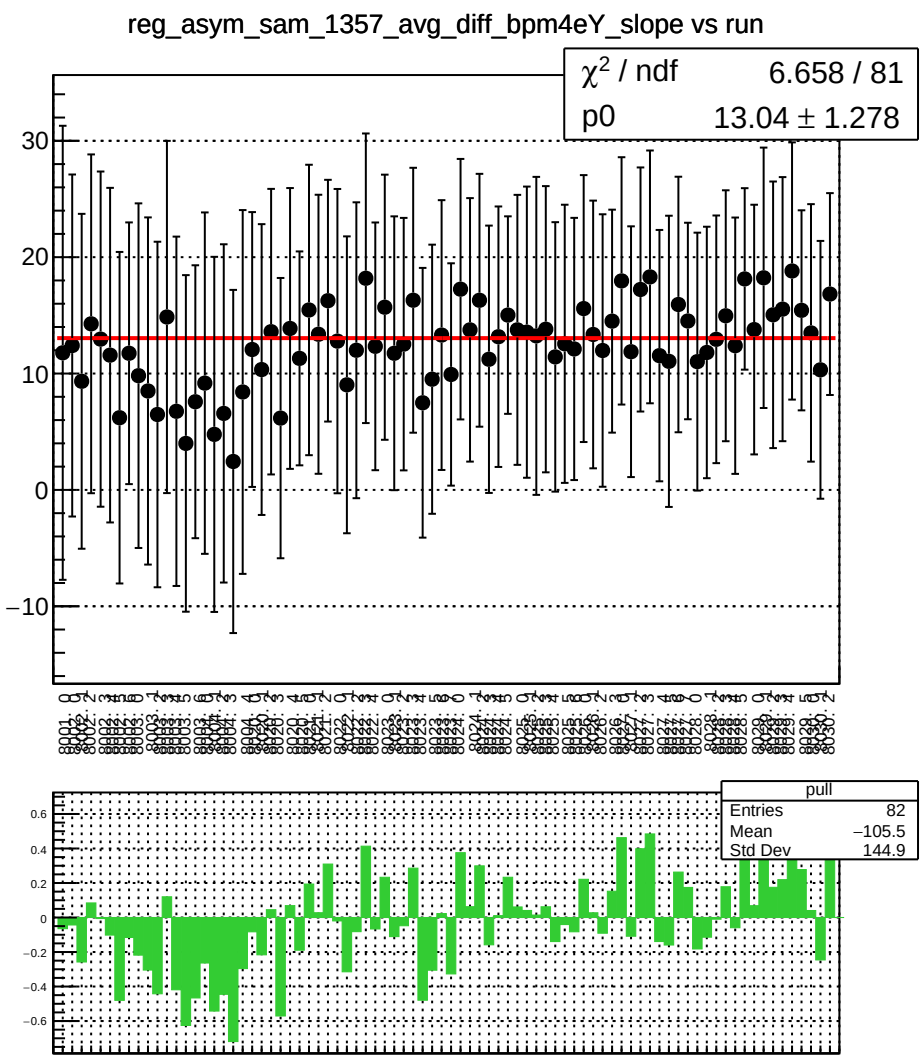

pull1D
Entries 82
Mean −0.1439
Std Dev 0.6373

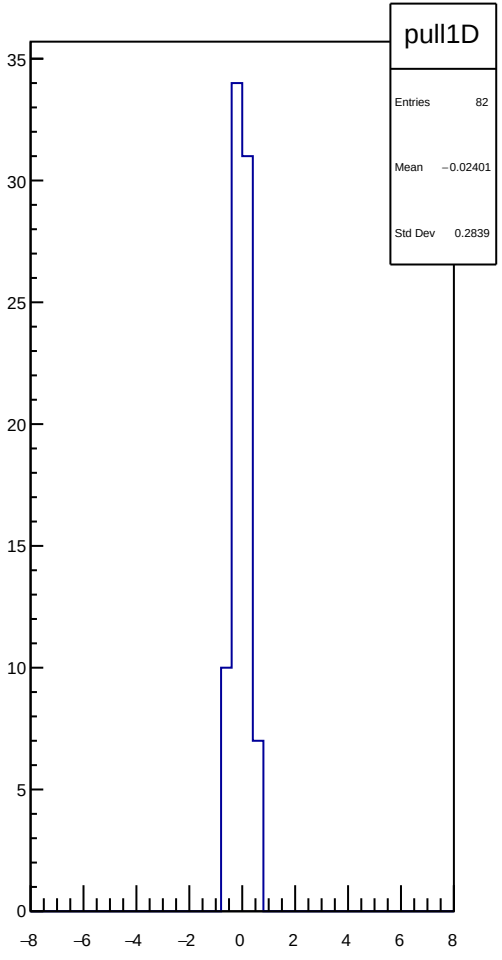

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.9 / 81
p0 15.48 ± 1.193
pull
Entries 82
Mean −108.7
Std Dev 156.1

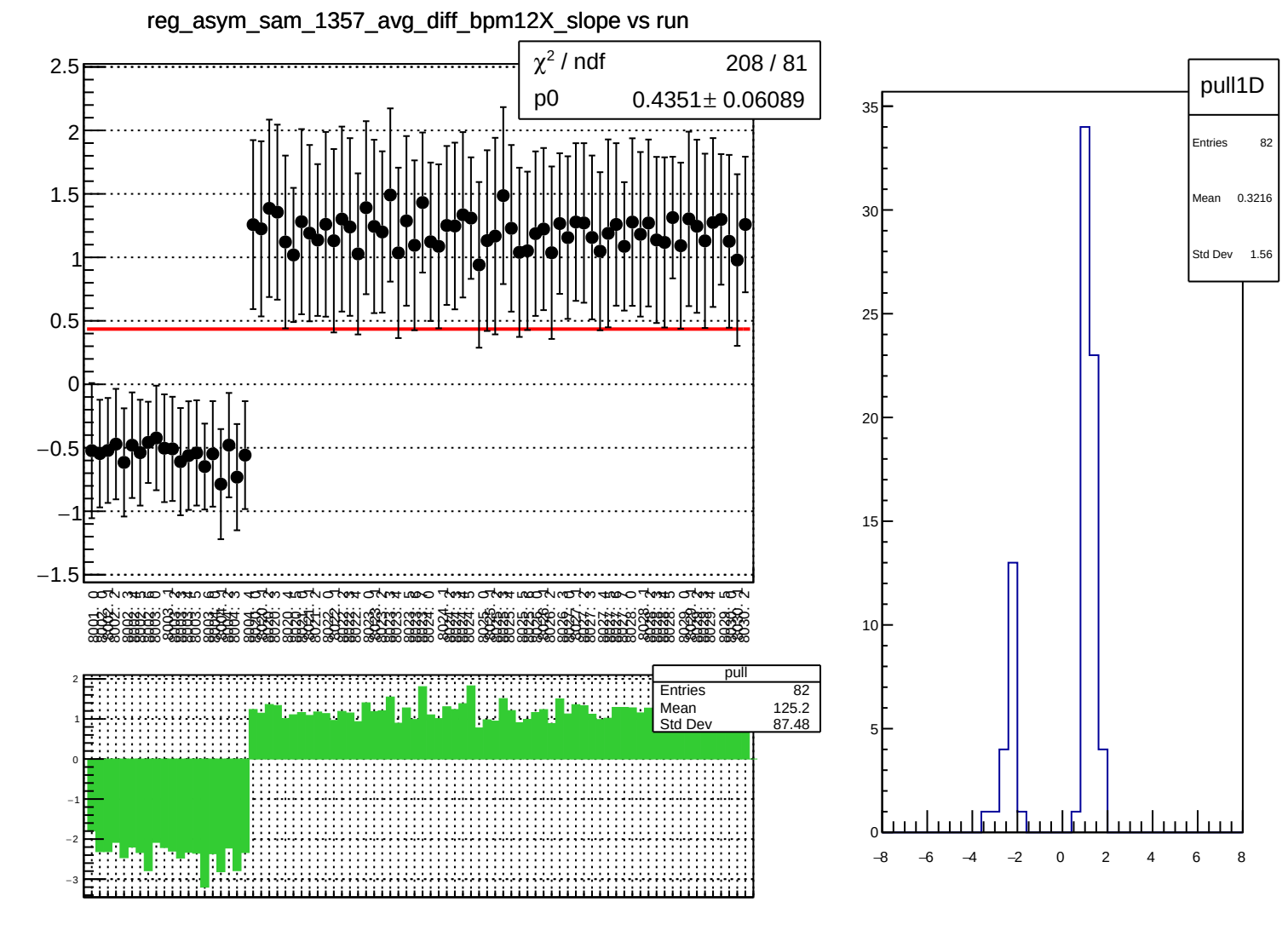

pull1D
Entries 82
Mean 0.01174
Std Dev 0.2442

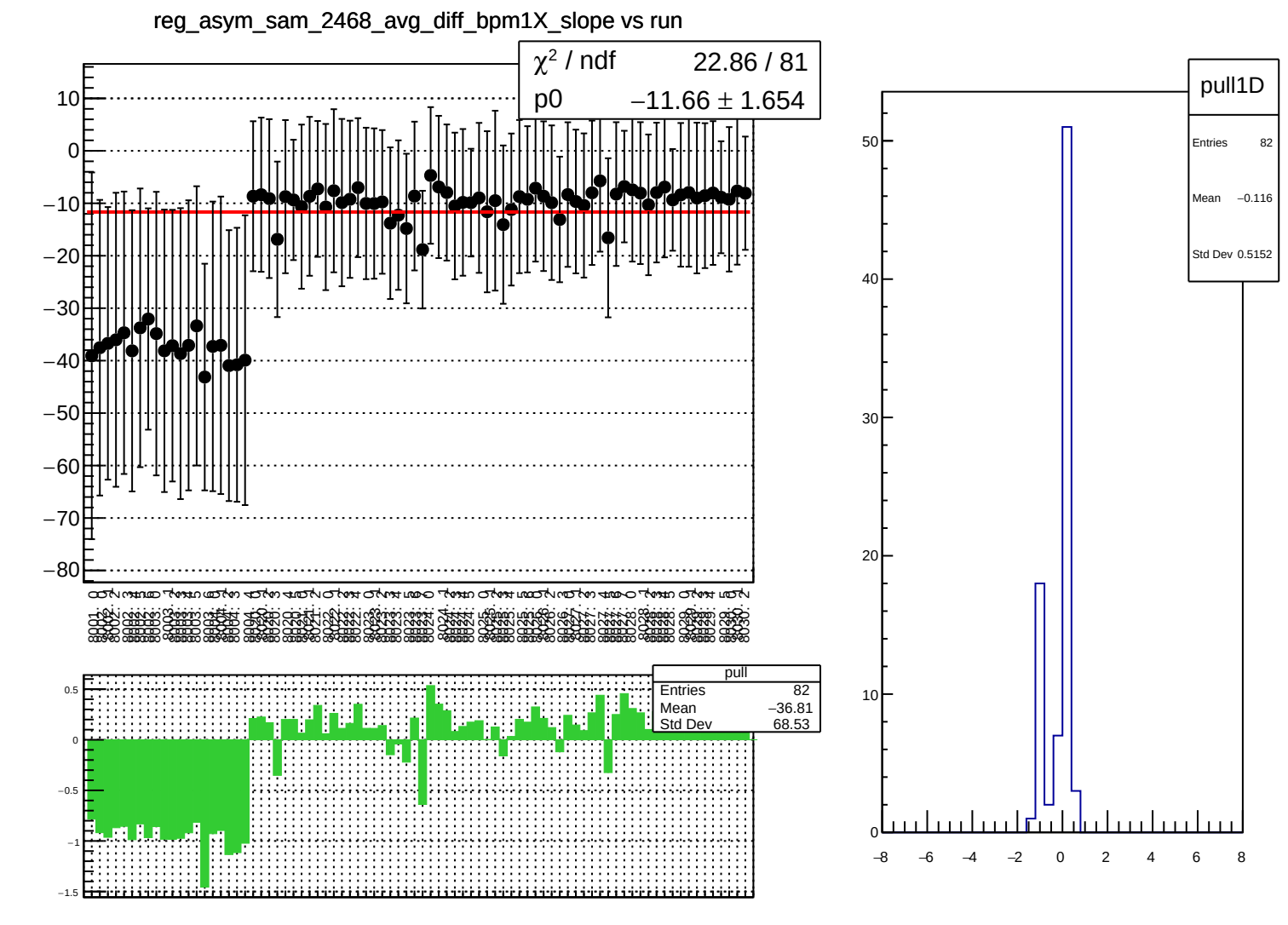

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.09 / 81
p0 −27.51 ± 0.7796
pull
Entries 82
Mean −62.35
Std Dev 97.55

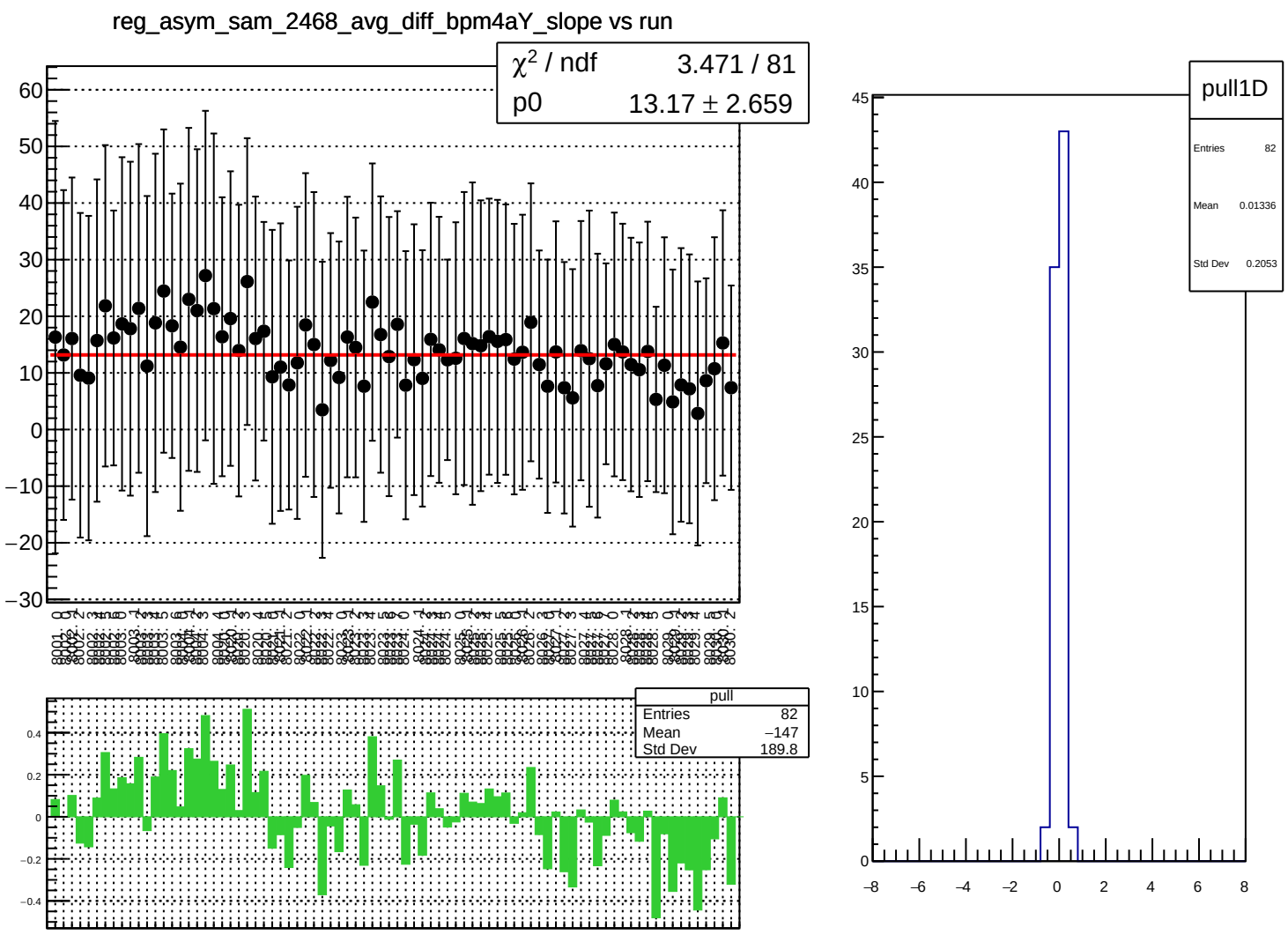

pull1D
Entries 82
Mean 0.08662
Std Dev 0.4874

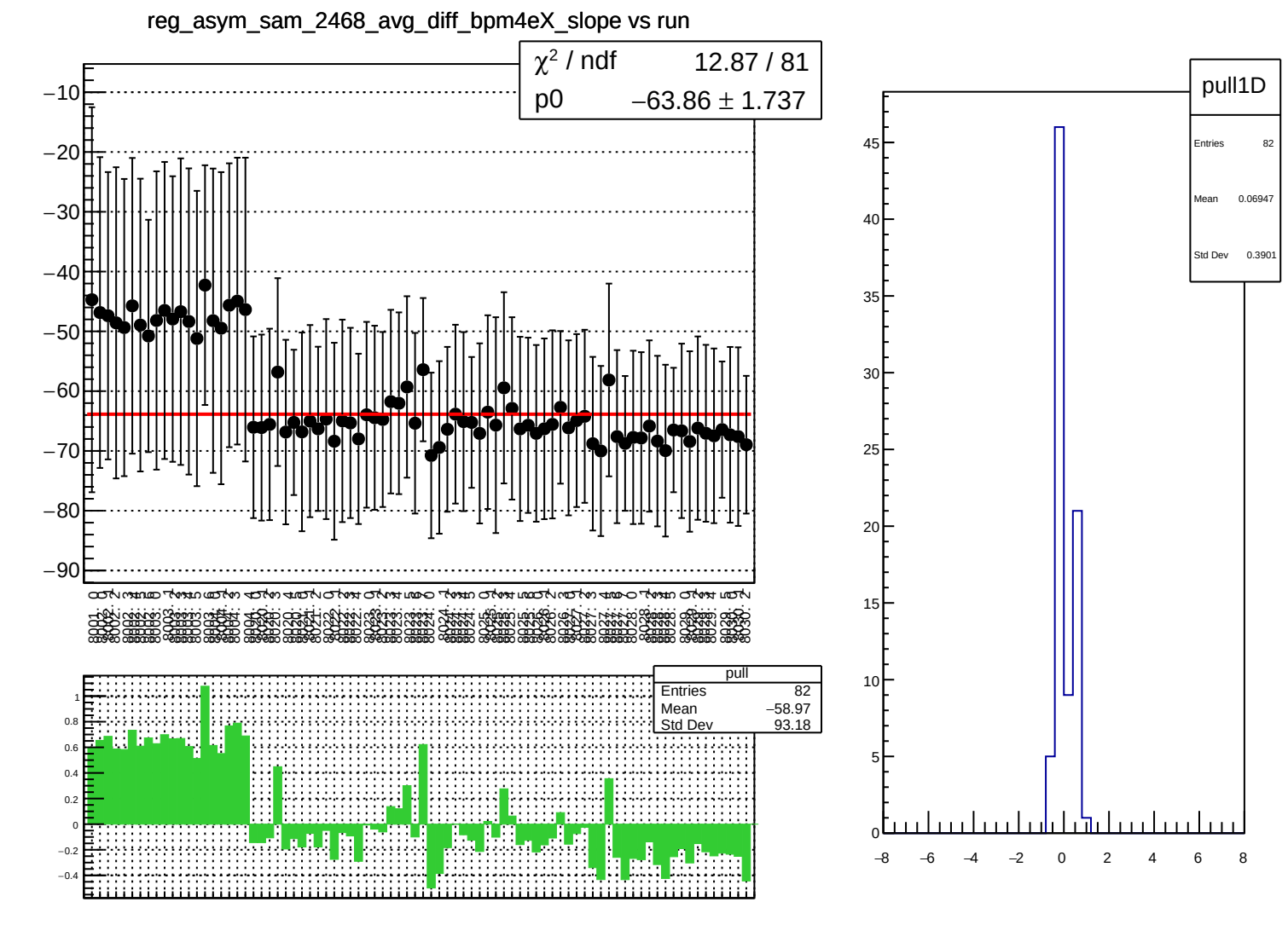

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.658 / 81
p0 13.04 ± 1.278
pull
Entries 82
Mean −105.5
Std Dev 144.9

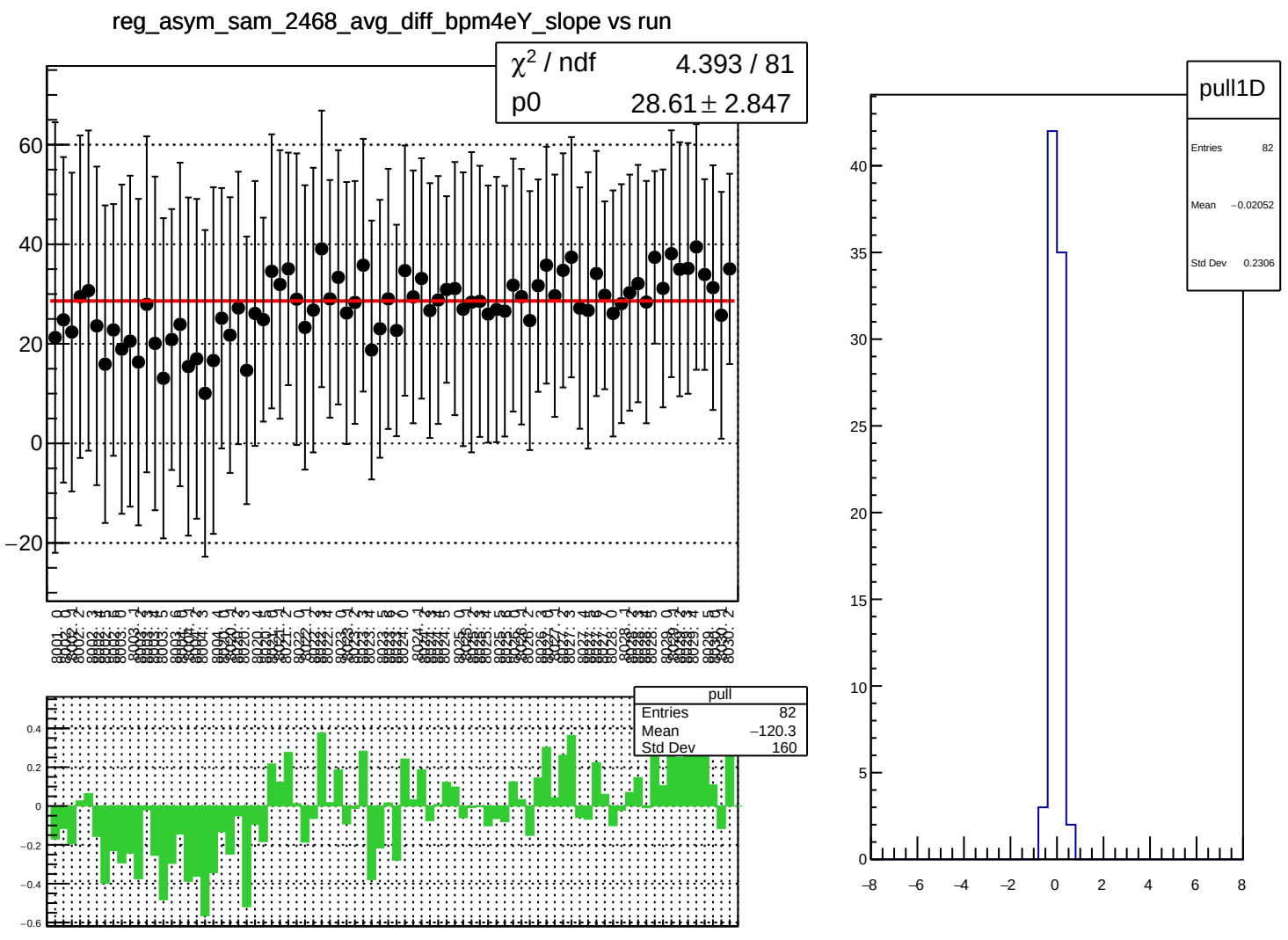

pull1D
Entries 82
Mean −0.02401
Std Dev 0.2839

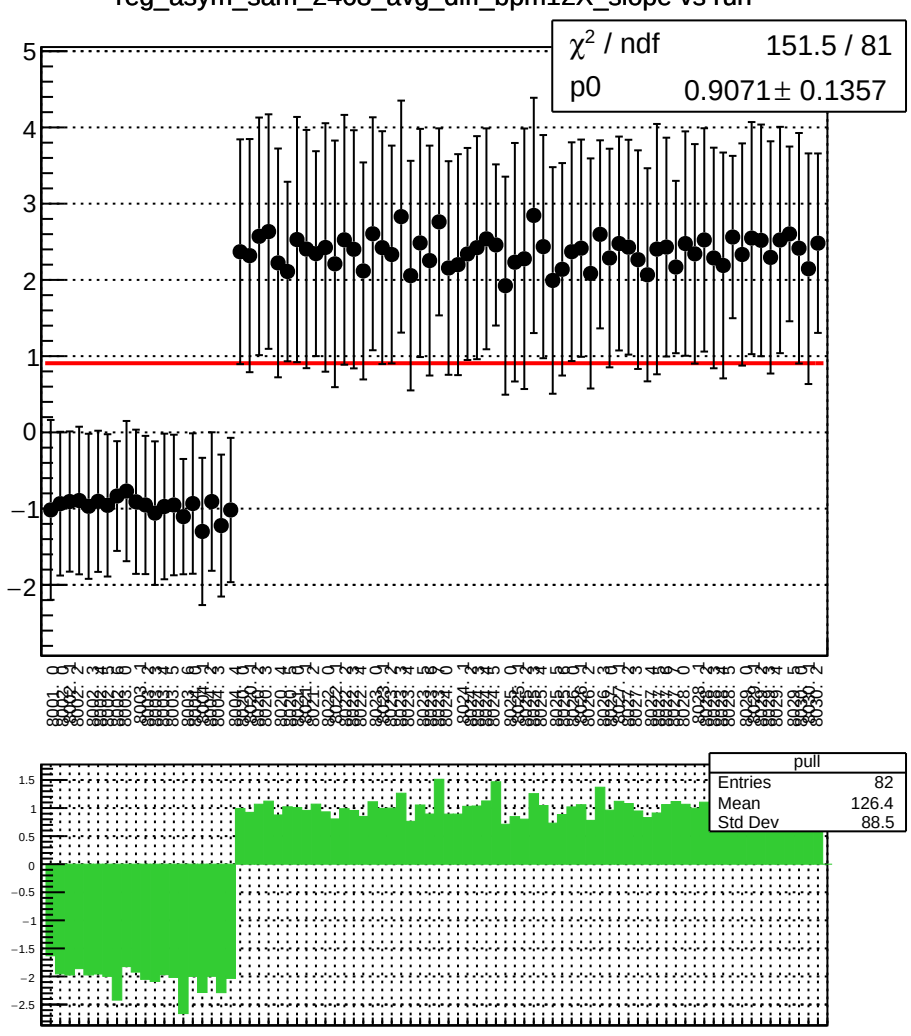

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 208 / 81
p0 0.4351± 0.06089
pull
Entries 82
Mean 125.2
Std Dev 87.48
pull1D
Entries 82
Mean 0.3216
Std Dev 1.56

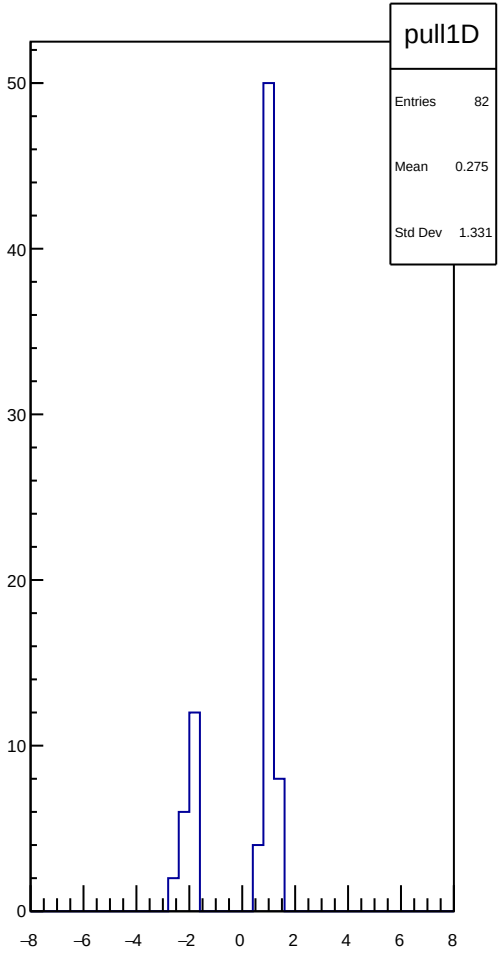

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 22.86 / 81
p0 −11.66 ± 1.654
pull
Entries 82
Mean −36.81
Std Dev 68.53
pull1D
Entries 82
Mean −0.116
Std Dev 0.5152

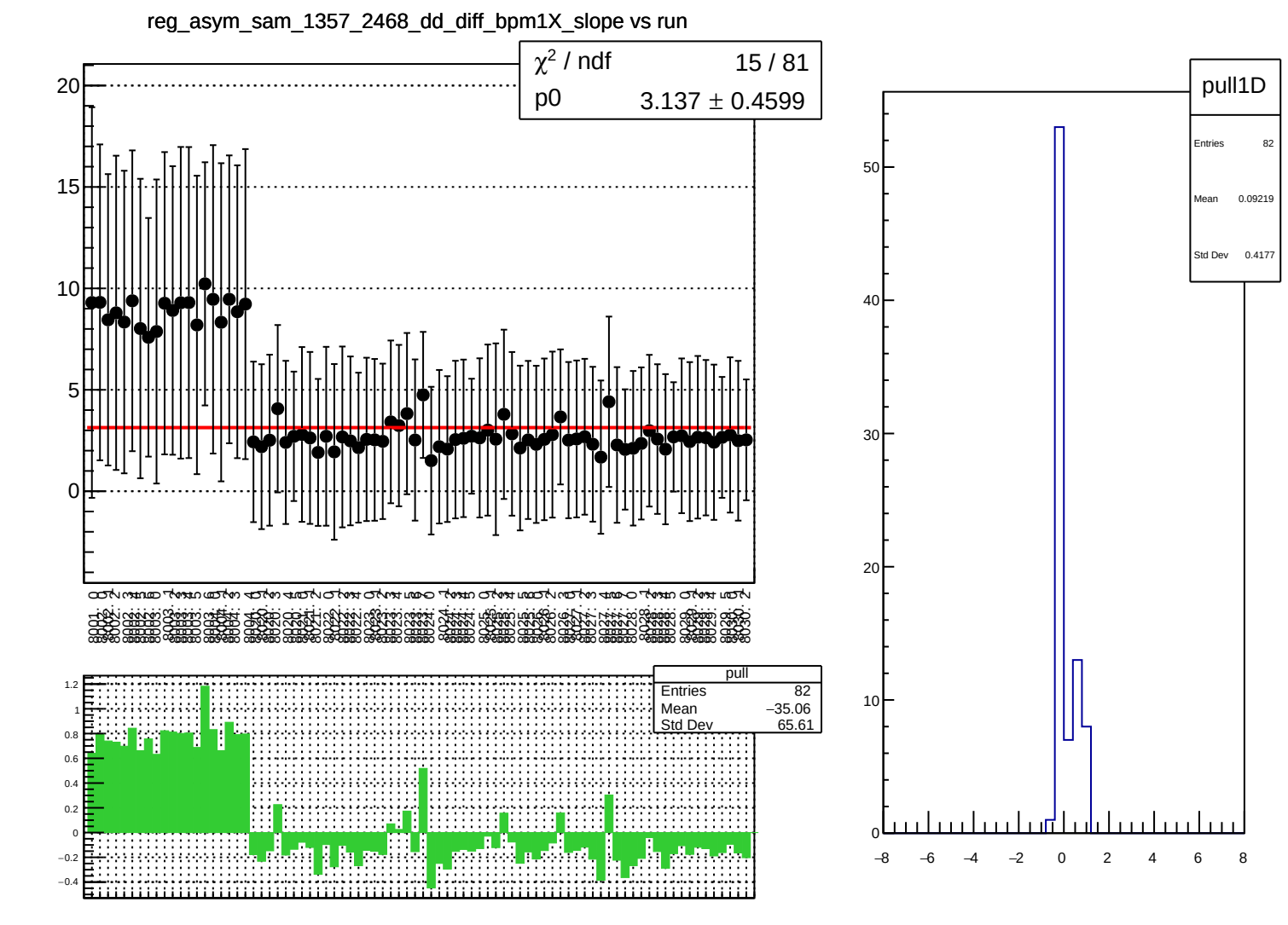

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.471 / 81
p0 13.17 ± 2.659
pull
Entries 82
Mean −147
Std Dev 189.8
pull1D
Entries 82
Mean 0.01336
Std Dev 0.2053

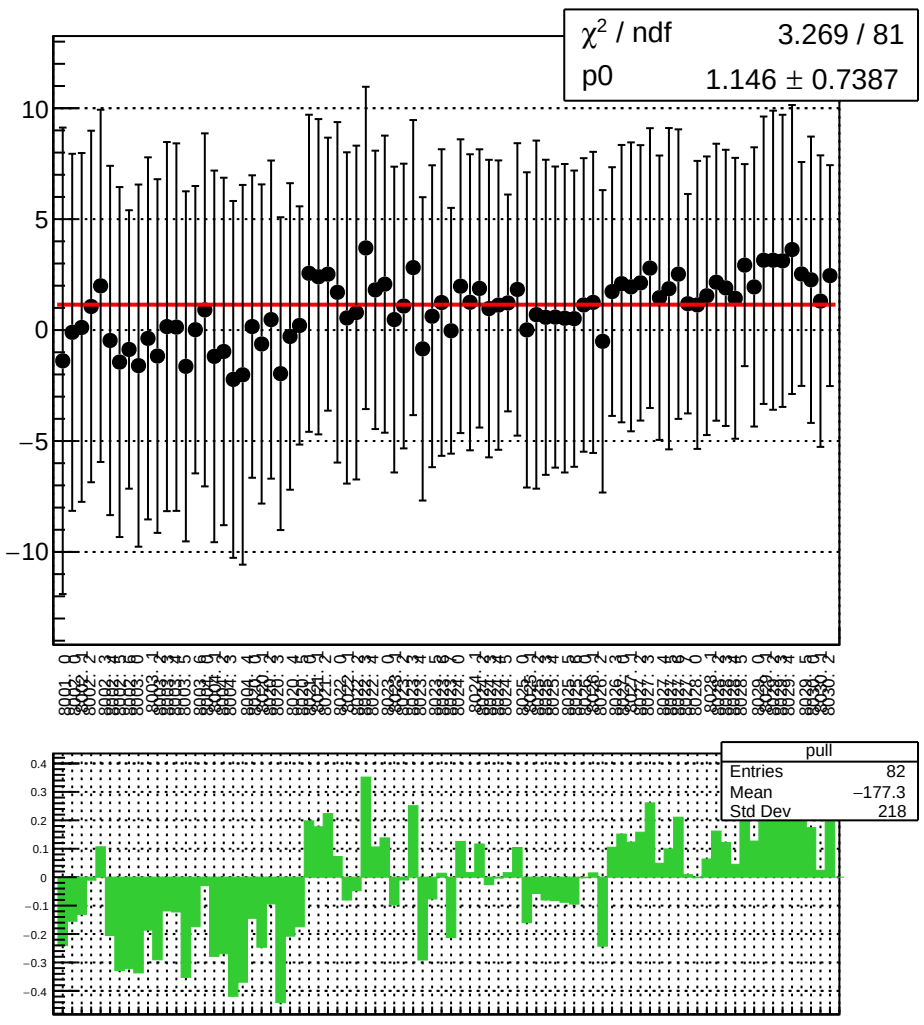

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.87 / 81
p0 −63.86 ± 1.737
pull
Entries 82
Mean −58.97
Std Dev 93.18
pull1D
Entries 82
Mean 0.06947
Std Dev 0.3901

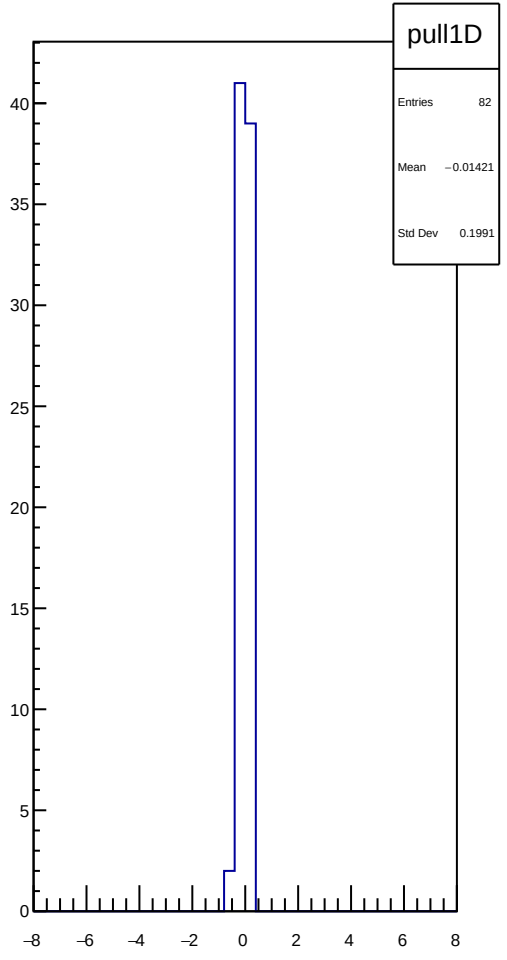

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.393 / 81
p0 28.61 ± 2.847
pull
Entries 82
Mean −120.3
Std Dev 160
pull1D
Entries 82
Mean −0.02052
Std Dev 0.2306

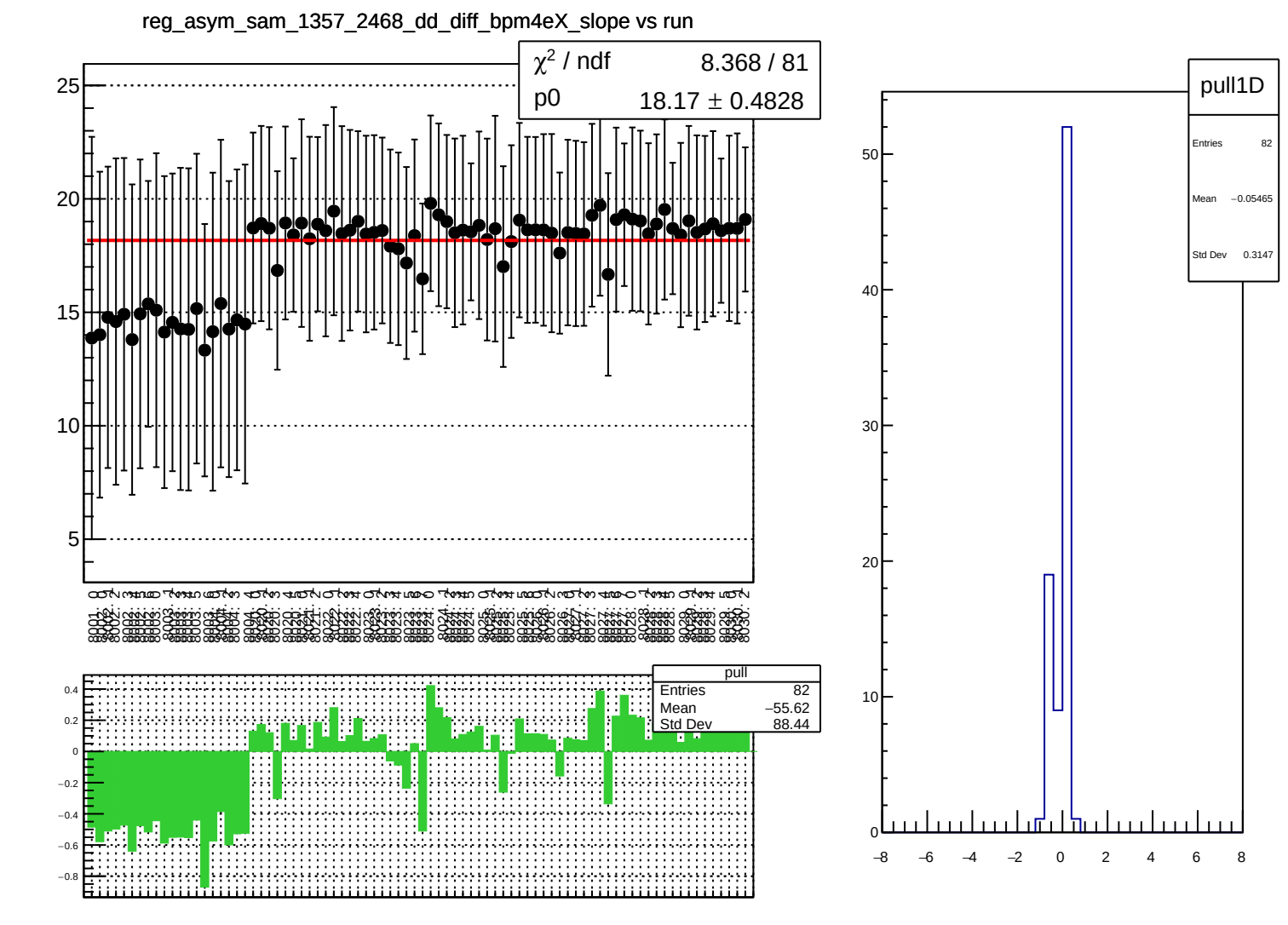

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 151.5 / 81
p0 0.9071± 0.1357
pull
Entries 82
Mean 126.4
Std Dev 88.5

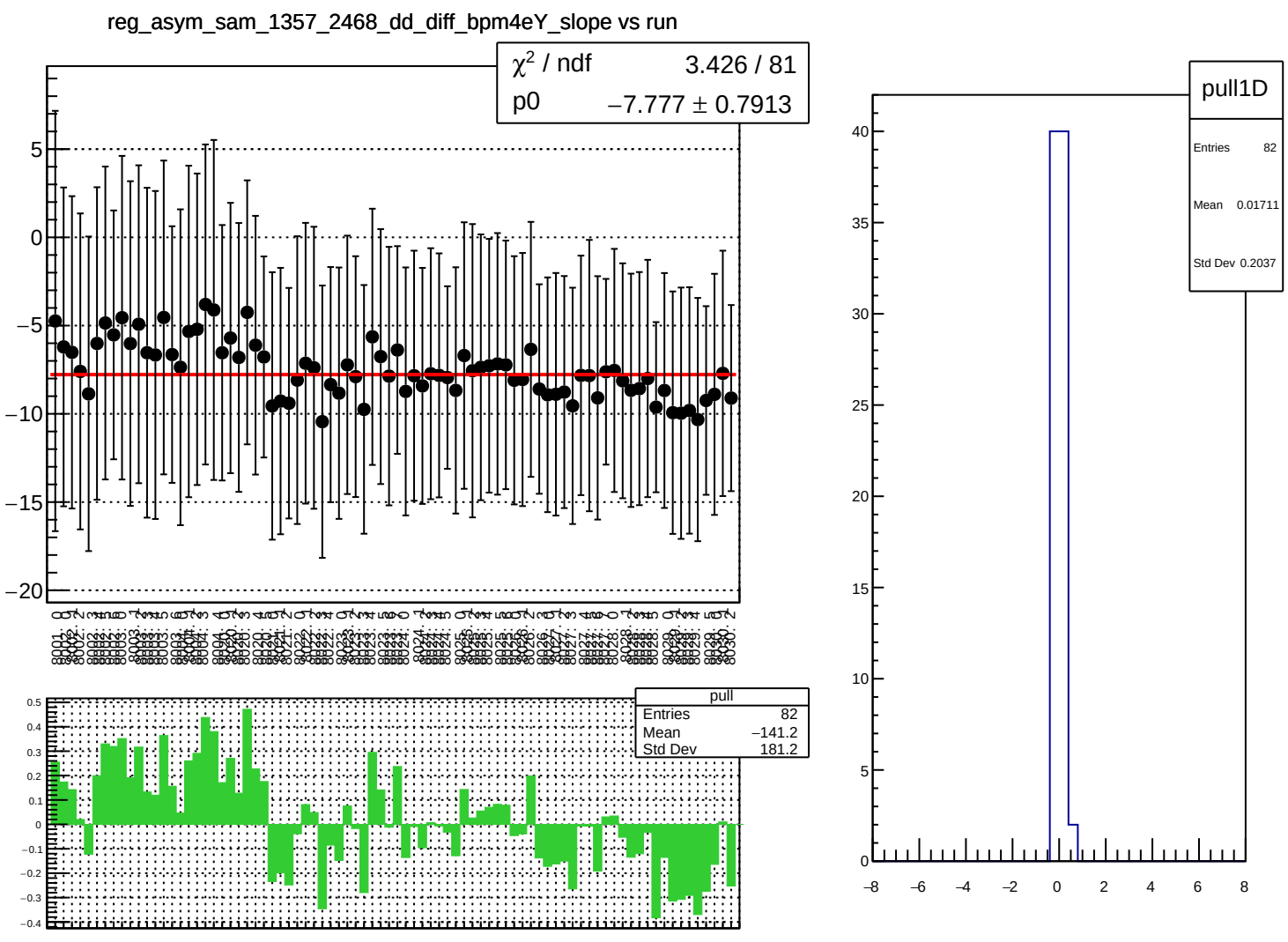

pull1D
Entries 82
Mean 0.275
Std Dev 1.331

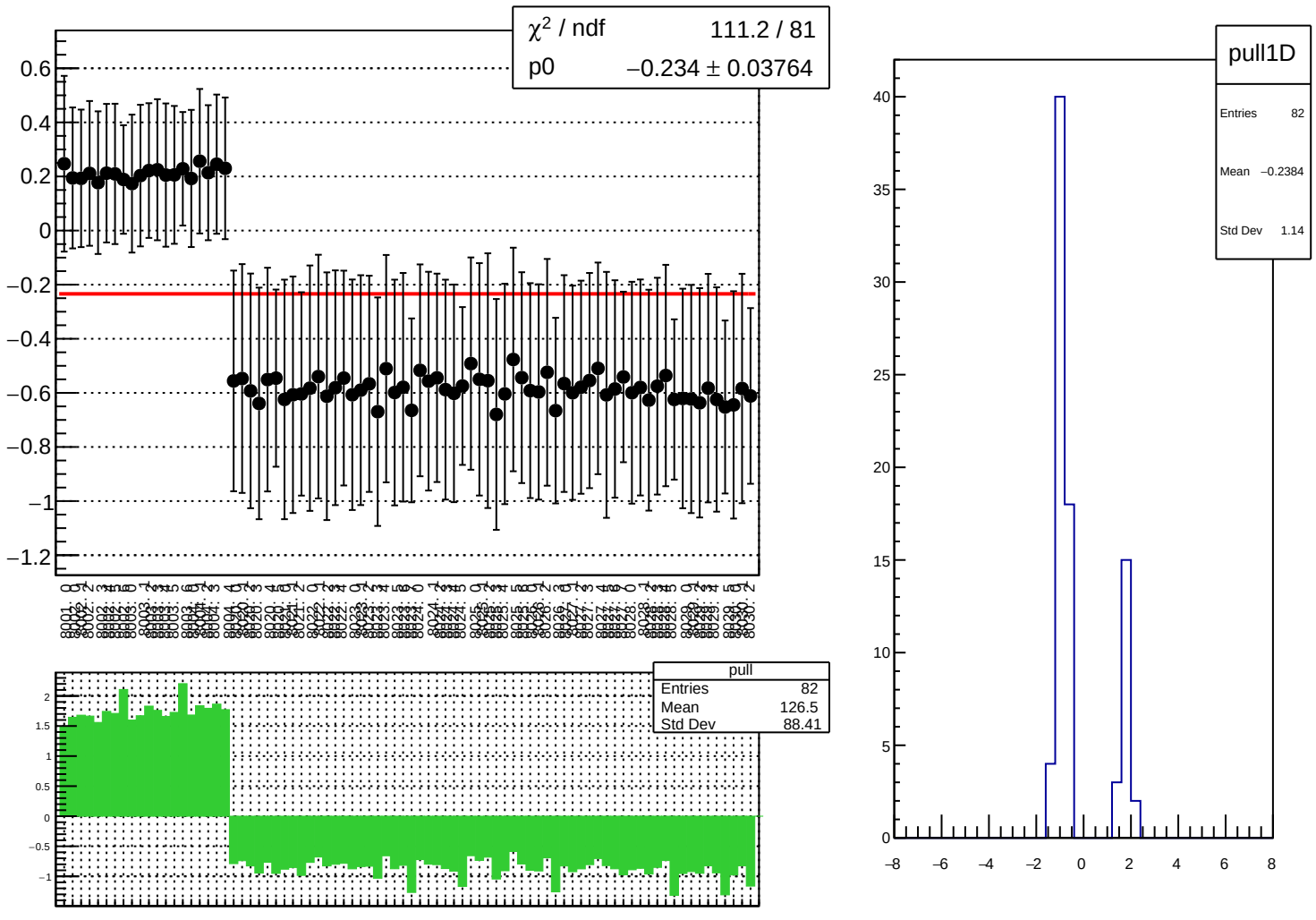

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 15 / 81
p0 3.137 ± 0.4599
pull
Entries 82
Mean −35.06
Std Dev 65.61
pull1D
Entries 82
Mean 0.09219
Std Dev 0.4177

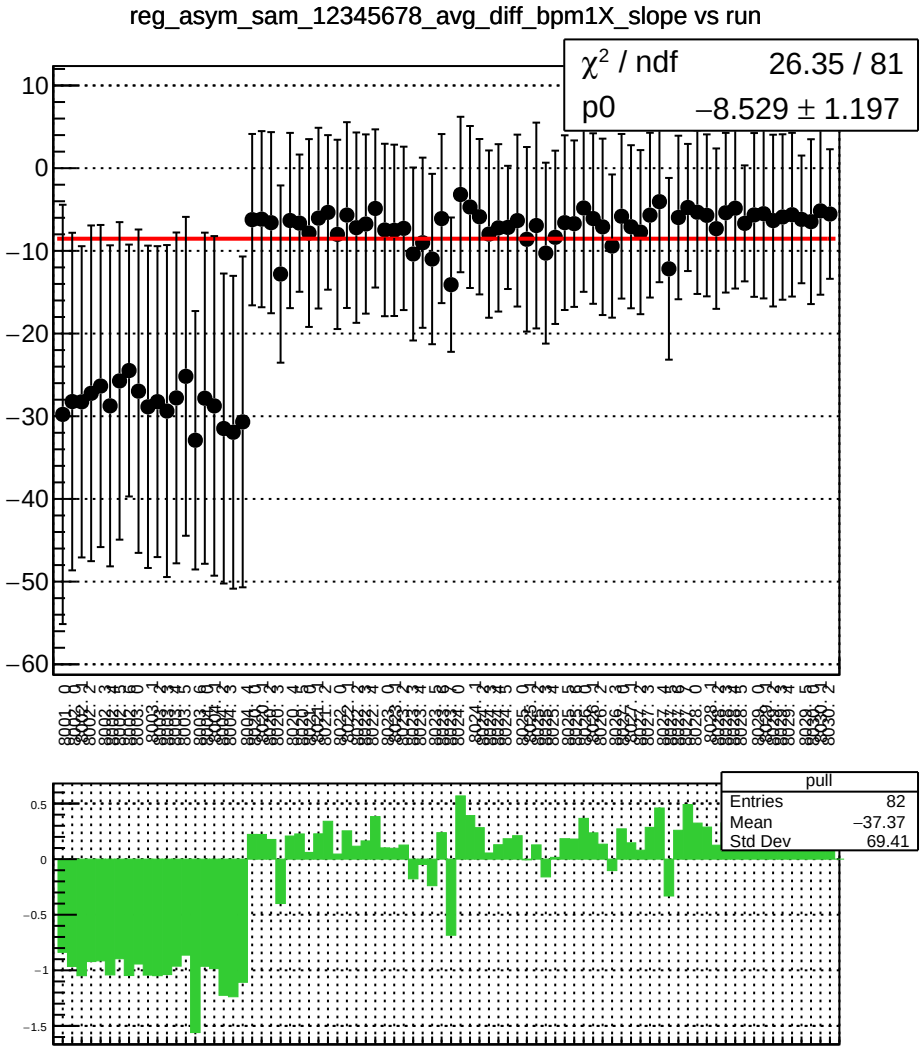

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.269 / 81
p0 1.146 ± 0.7387
pull
Entries 82
Mean −177.3
Std Dev 218

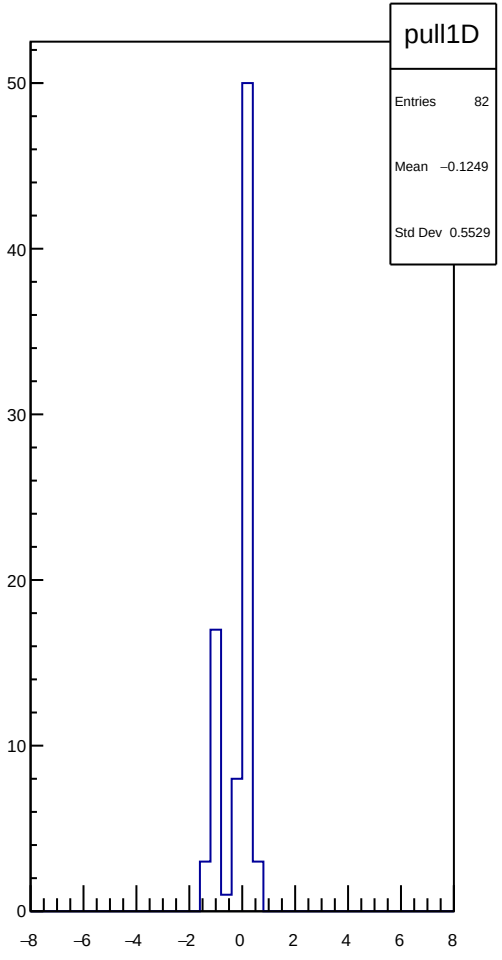

pull1D
Entries 82
Mean −0.01421
Std Dev 0.1991

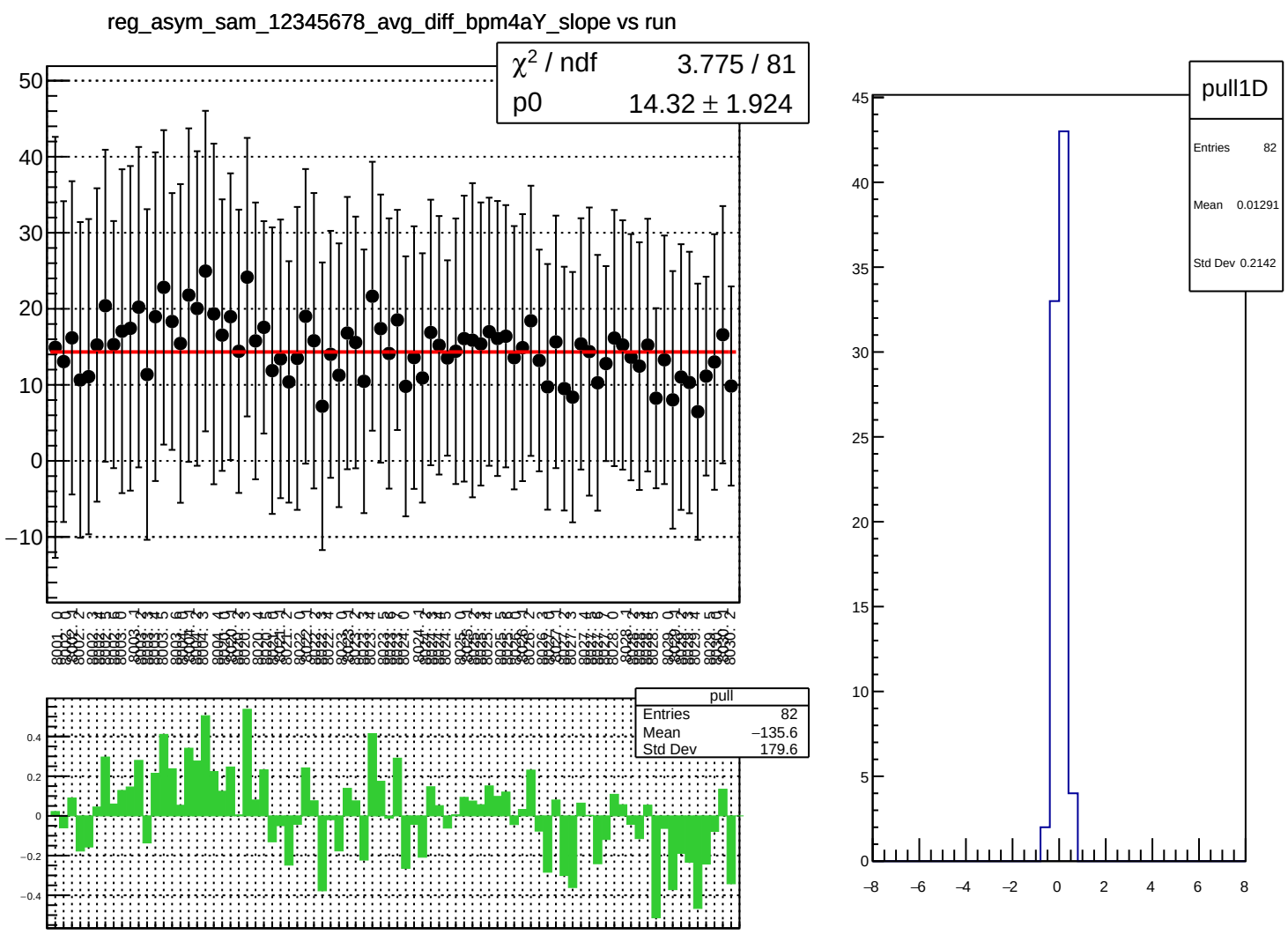

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.368 / 81
p0 18.17 ± 0.4828
pull
Entries 82
Mean −55.62
Std Dev 88.44
pull1D
Entries 82
Mean −0.05465
Std Dev 0.3147

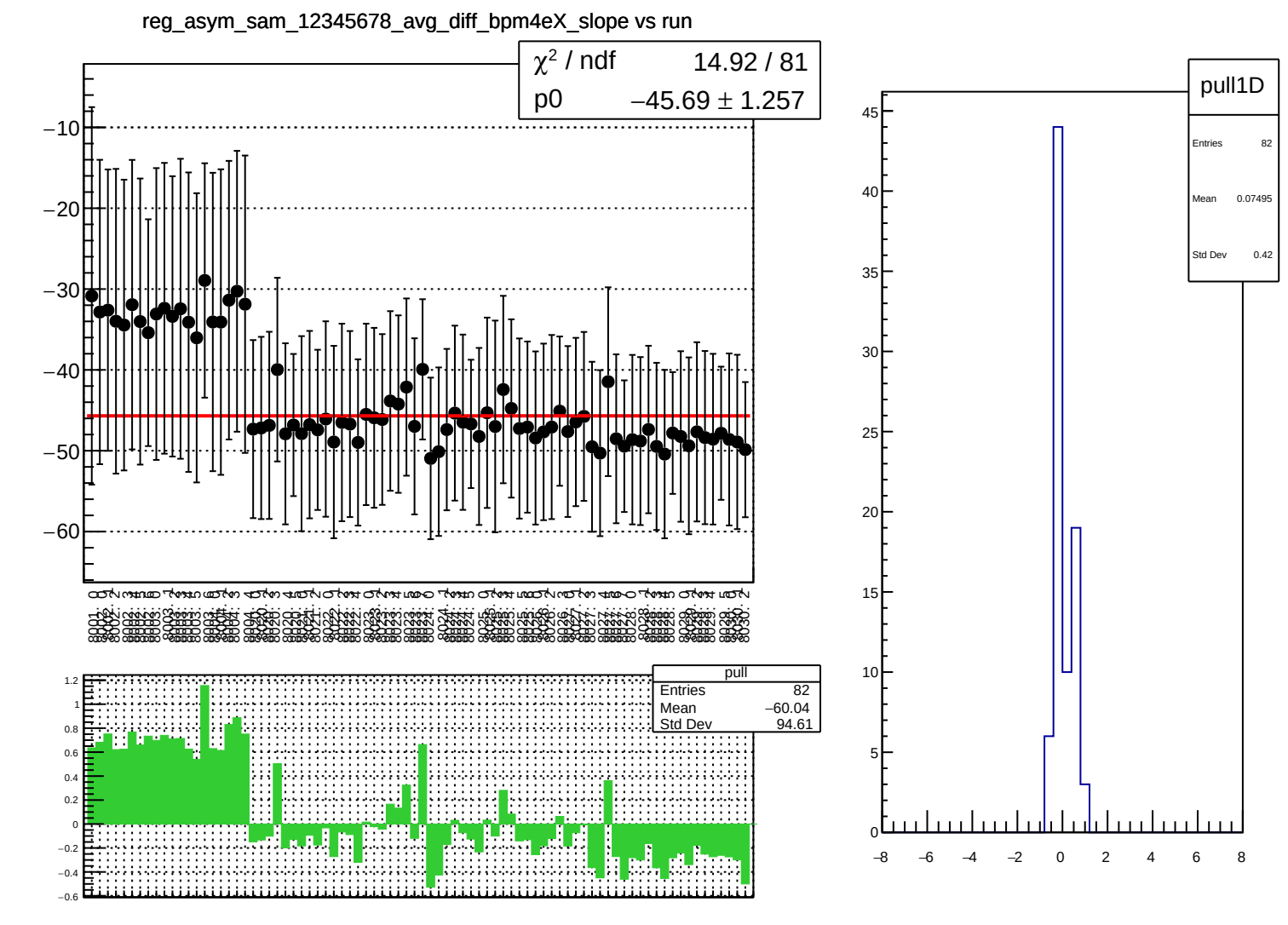

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.426 / 81
p0 −7.777 ± 0.7913
pull
Entries 82
Mean −141.2
Std Dev 181.2
pull1D
Entries 82
Mean 0.01711
Std Dev 0.2037

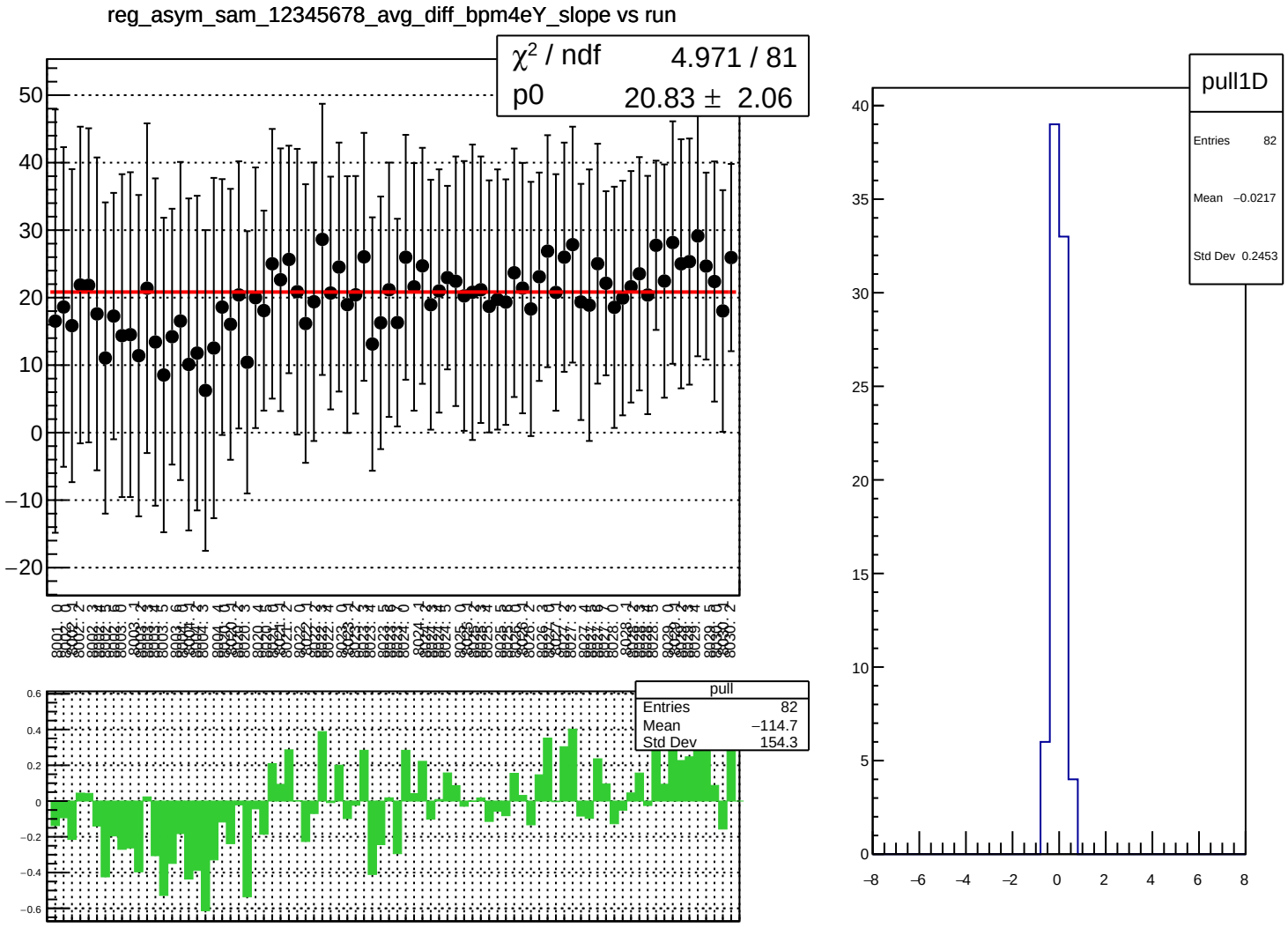

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 111.2 / 81
p0 −0.234 ± 0.03764
pull
Entries 82
Mean 126.5
Std Dev 88.41
pull1D
Entries 82
Mean −0.2384
Std Dev 1.14

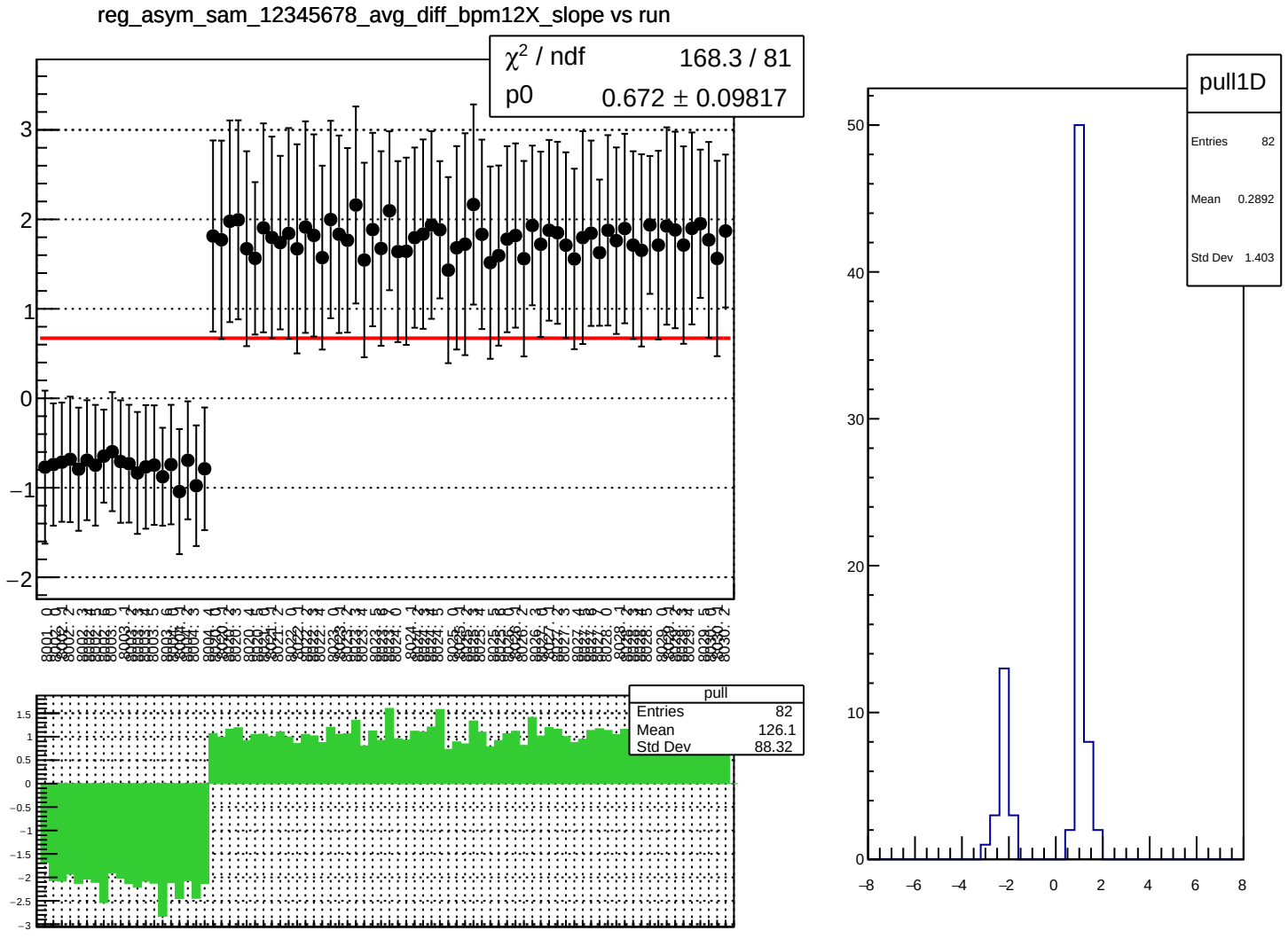

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 26.35 / 81
p0 −8.529 ± 1.197
pull
Entries 82
Mean −37.37
Std Dev 69.41

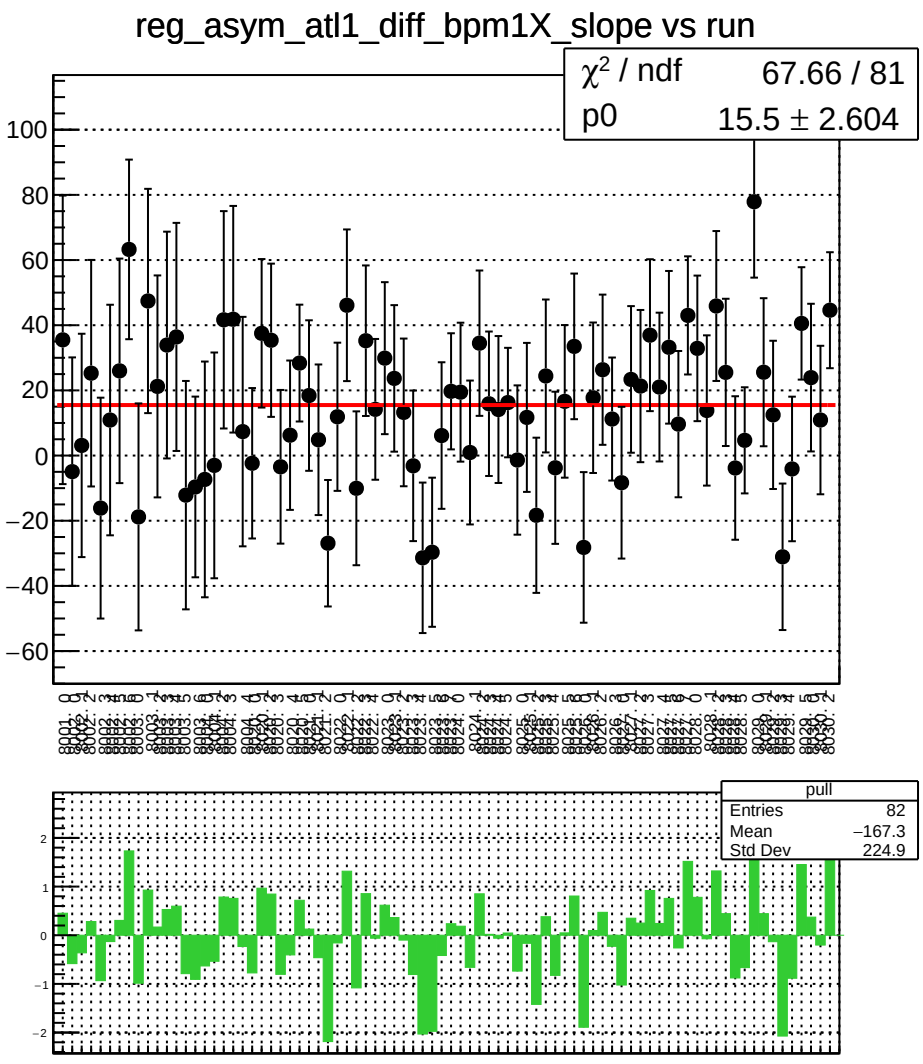

pull1D
Entries 82
Mean −0.1249
Std Dev 0.5529

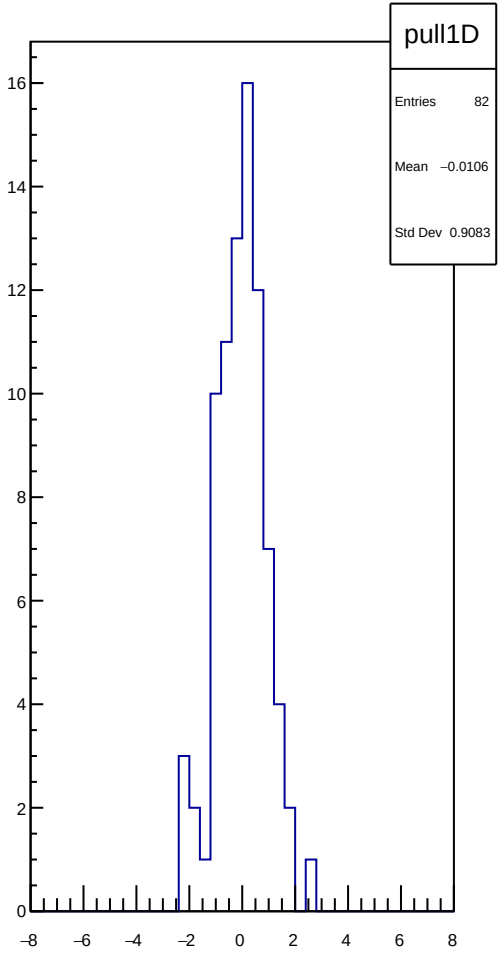

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.775 / 81
p0 14.32 ± 1.924
pull
Entries 82
Mean −135.6
Std Dev 179.6
pull1D
Entries 82
Mean 0.01291
Std Dev 0.2142

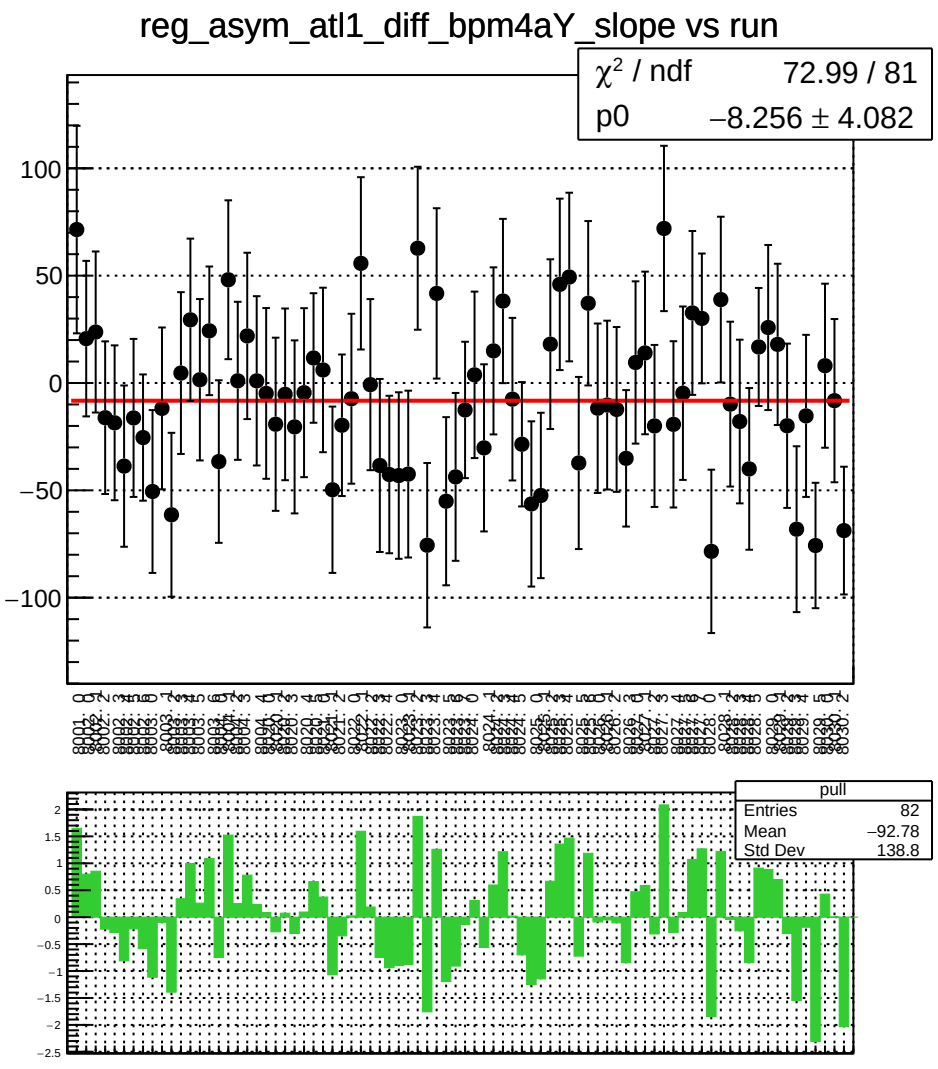

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.92 / 81
p0 −45.69 ± 1.257
pull
Entries 82
Mean −60.04
Std Dev 94.61
pull1D
Entries 82
Mean 0.07495
Std Dev 0.42

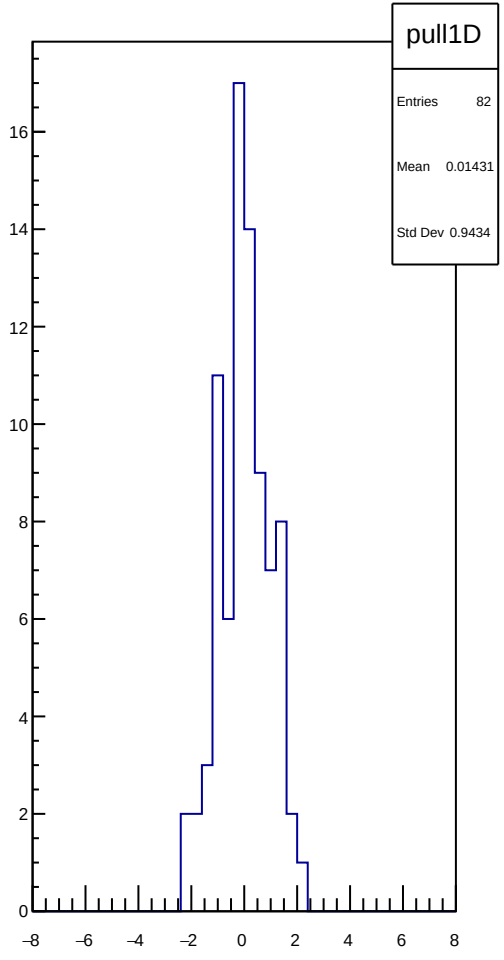

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.971 / 81
p0 20.83 ± 2.06
pull
Entries 82
Mean −114.7
Std Dev 154.3
pull1D
Entries 82
Mean −0.0217
Std Dev 0.2453

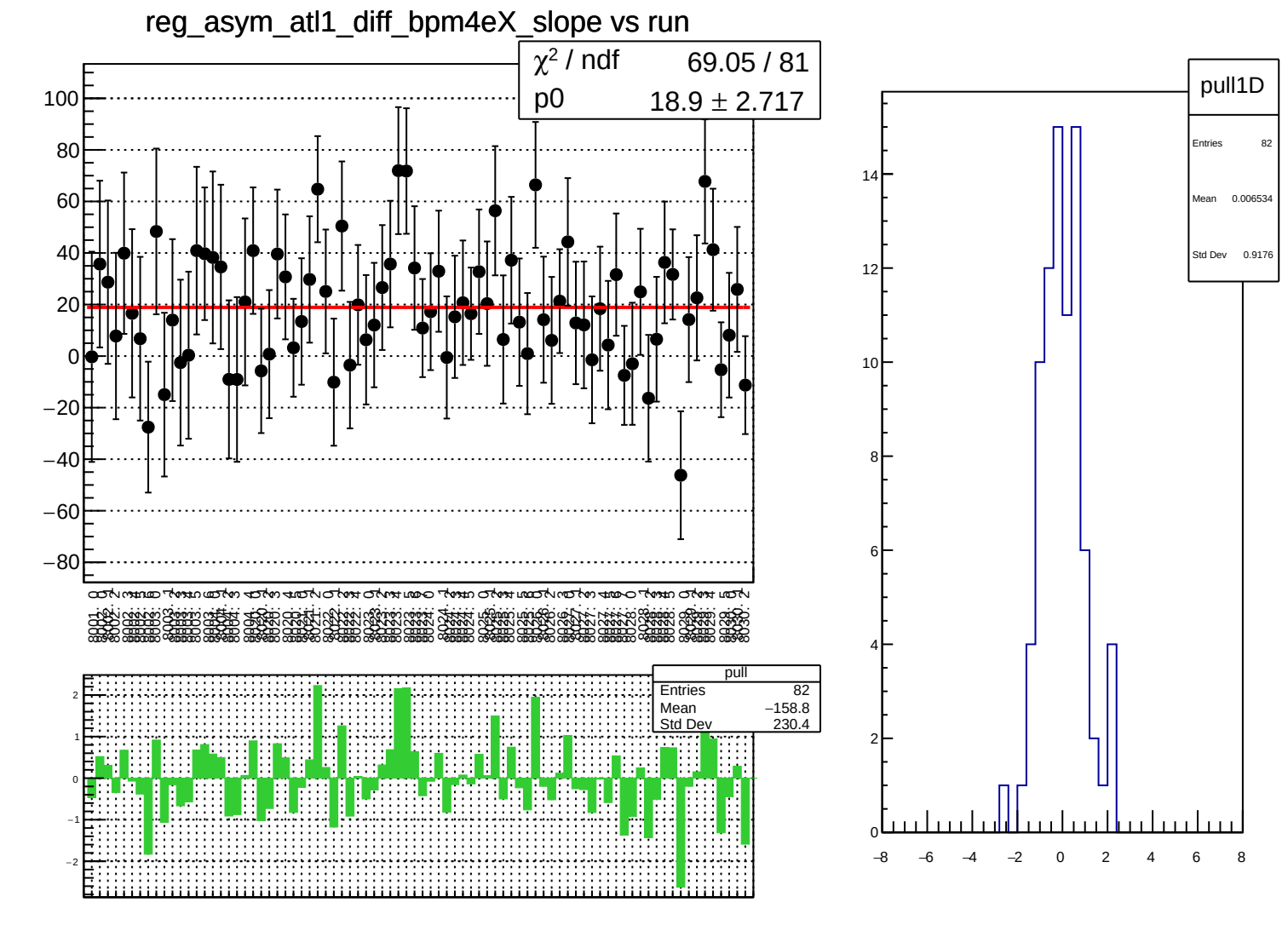

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 168.3 / 81
p0 0.672 ± 0.09817
pull
Entries 82
Mean 126.1
Std Dev 88.32
pull1D
Entries 82
Mean 0.2892
Std Dev 1.403

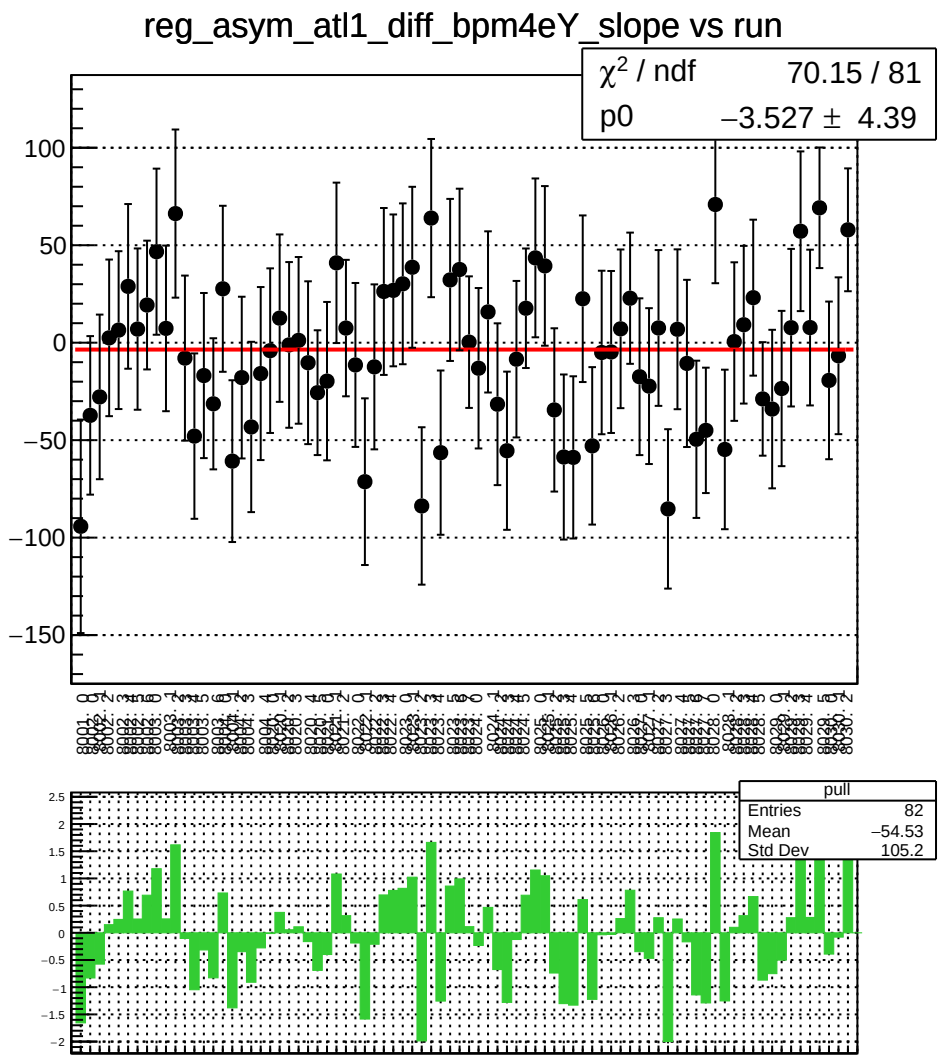

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 67.66 / 81
p0 15.5 ± 2.604
pull
Entries 82
Mean −167.3
Std Dev 224.9

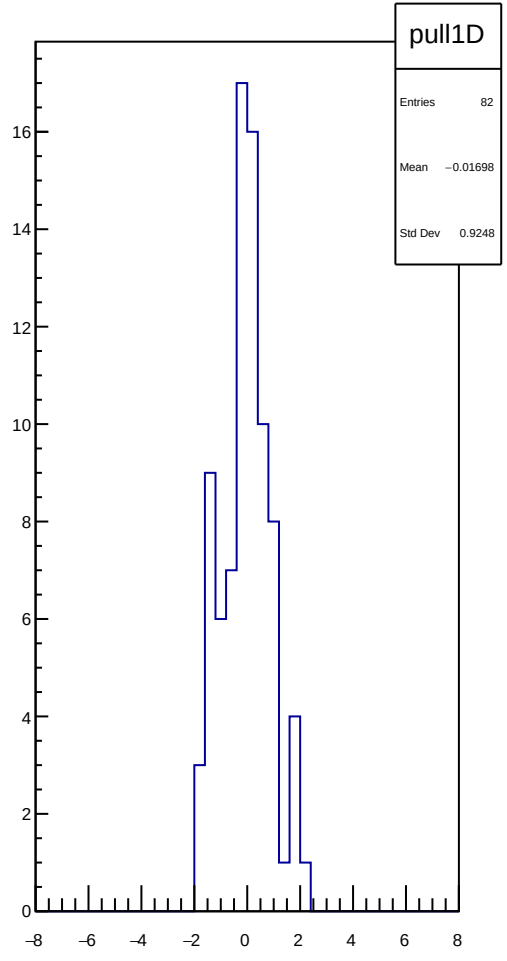

pull1D
Entries 82
Mean −0.0106
Std Dev 0.9083

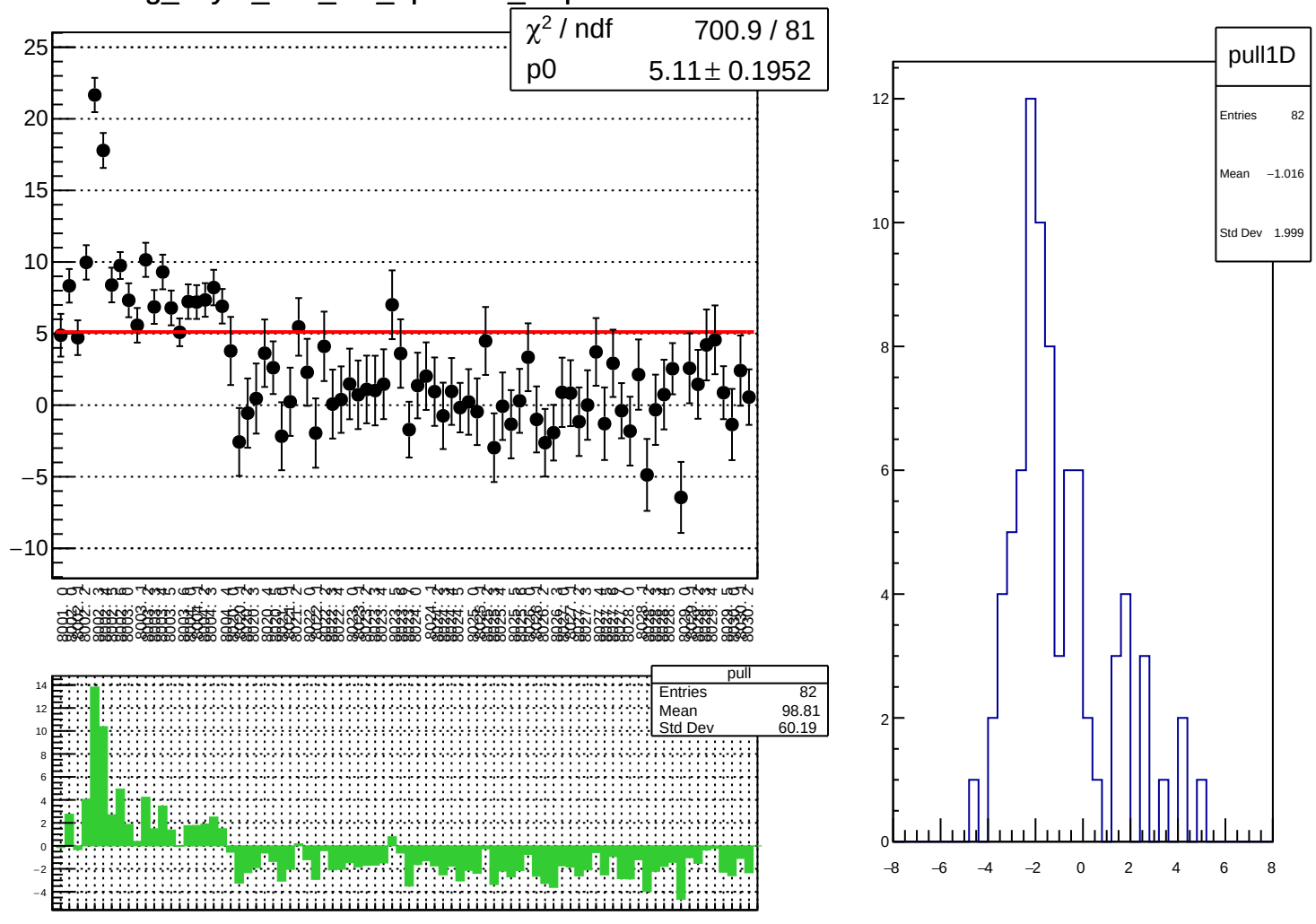

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 72.99 / 81
p0 −8.256 ± 4.082
100
50
0
−50
−100
pull
Entries 82
Mean −92.78
Std Dev 138.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

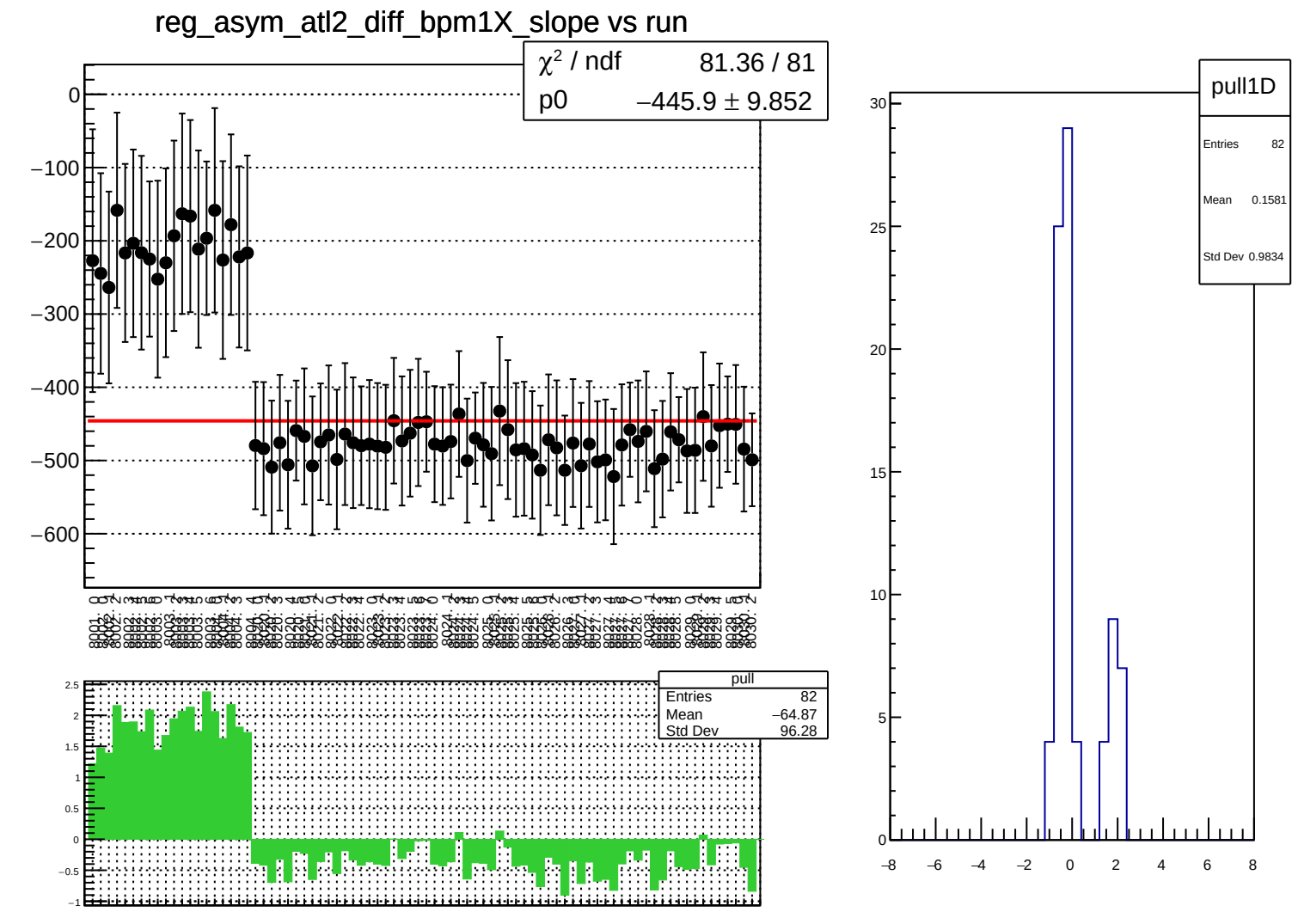

pull1D
Entries 82
Mean 0.01431
Std Dev 0.9434
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

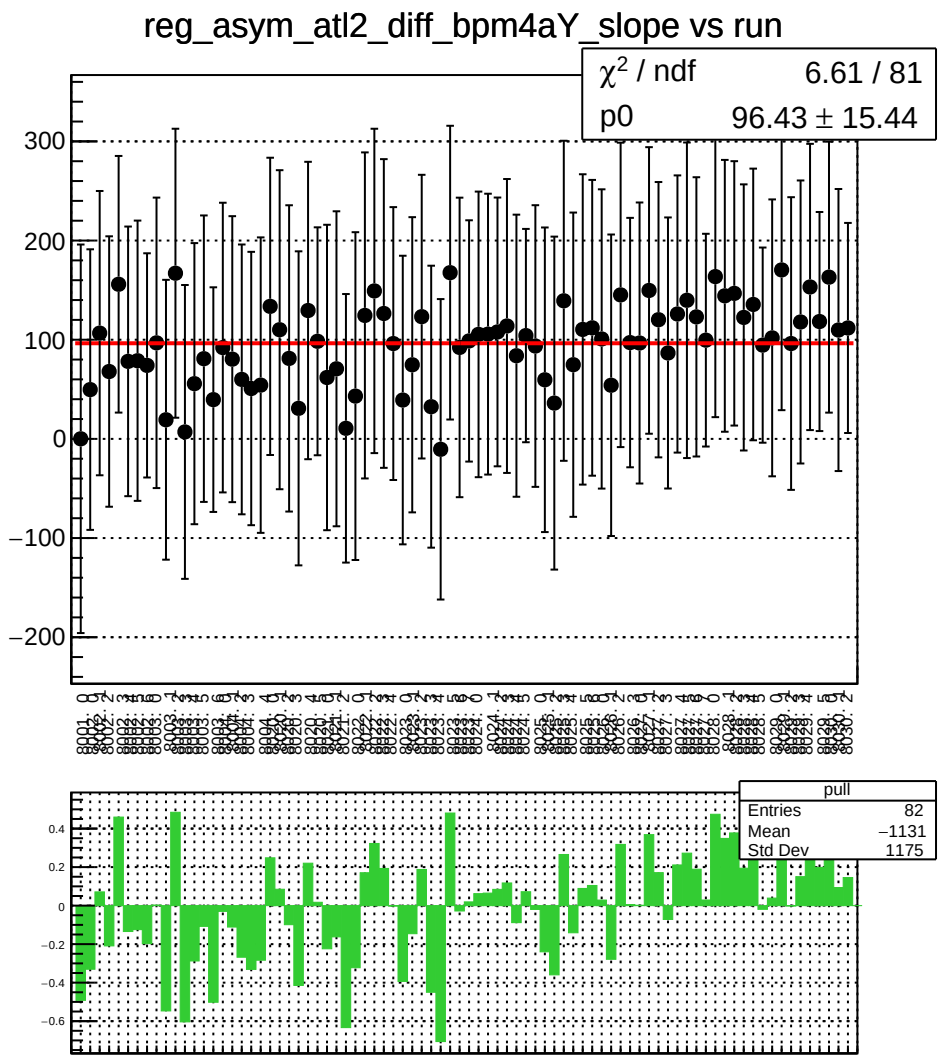

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 69.05 / 81
p0 18.9 ± 2.717
pull
Entries 82
Mean −158.8
Std Dev 230.4
pull1D
Entries 82
Mean 0.006534
Std Dev 0.9176

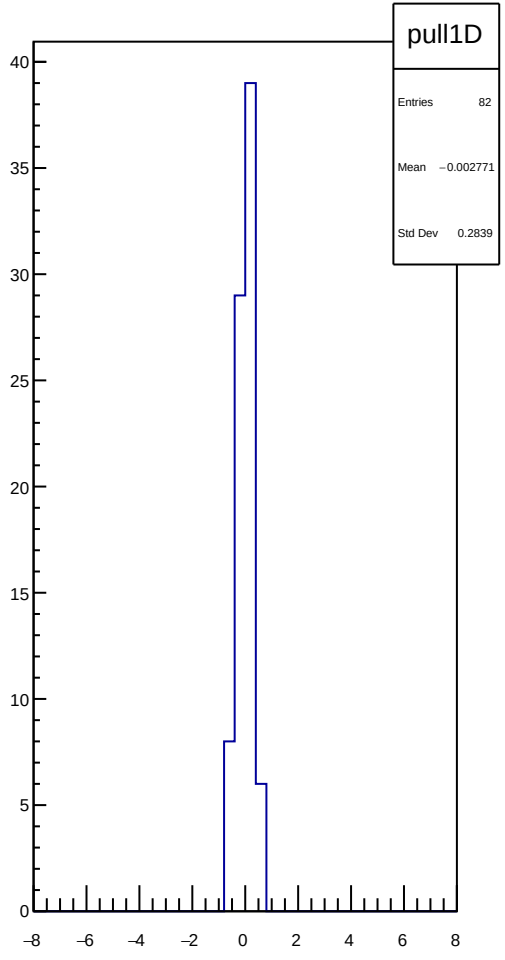

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 70.15 / 81
p0 −3.527 ± 4.39
100
50
0
−50
−100
−150
pull
Entries 82
Mean −54.53
Std Dev 105.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

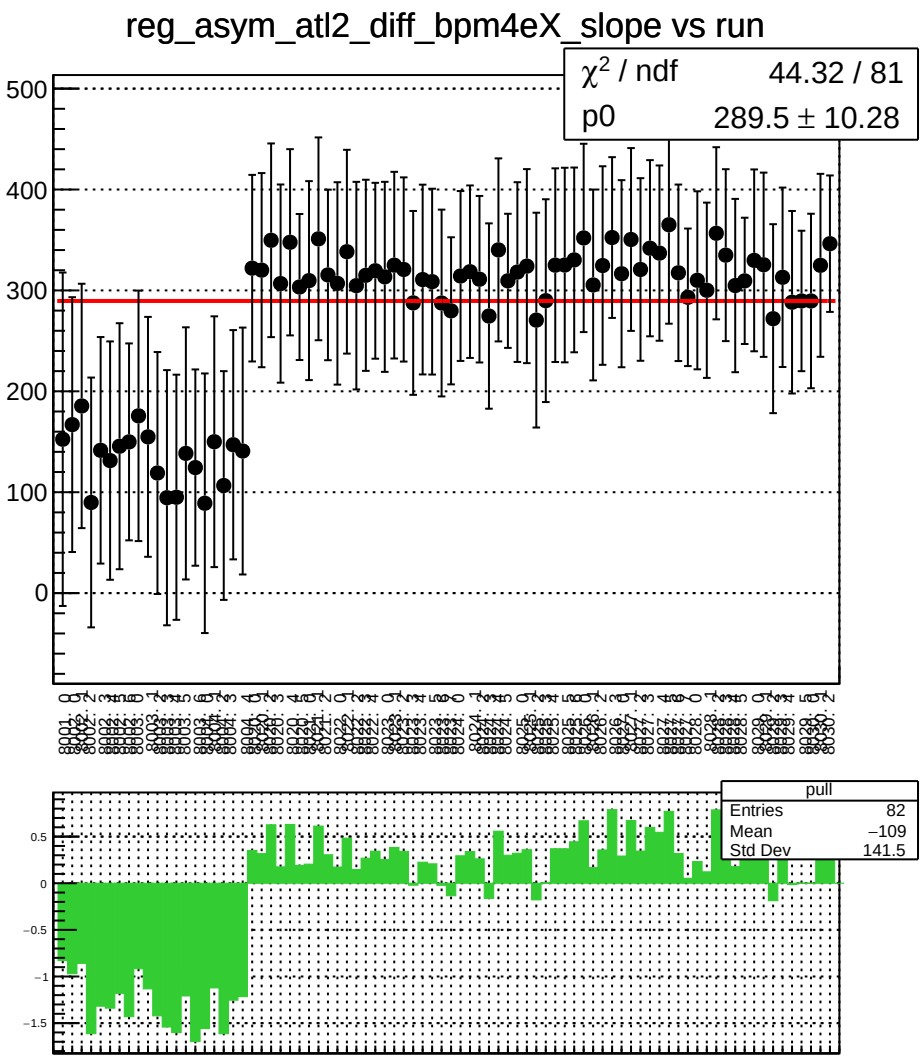

pull1D
Entries 82
Mean −0.01698
Std Dev 0.9248
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

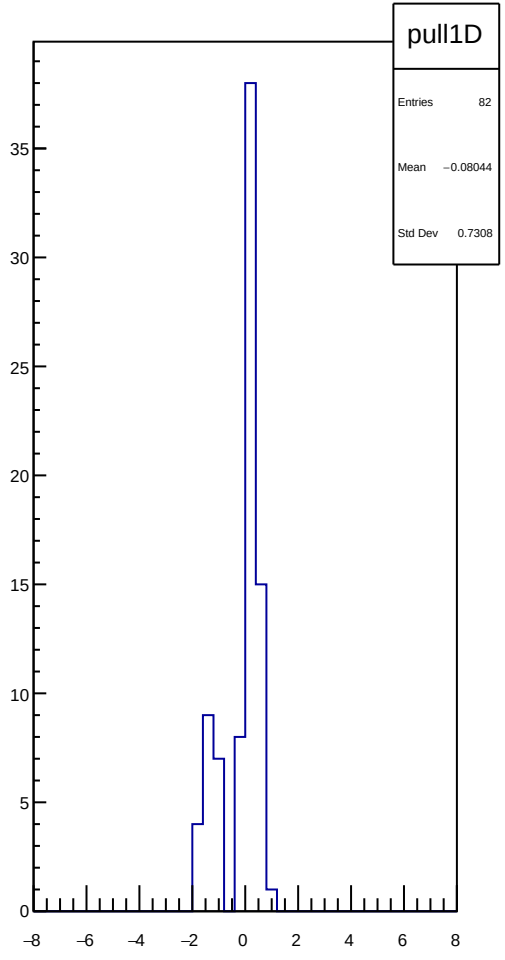

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 700.9 / 81
p0 5.11 ± 0.1952
pull
Entries 82
Mean 98.81
Std Dev 60.19
pull1D
Entries 82
Mean −1.016
Std Dev 1.999

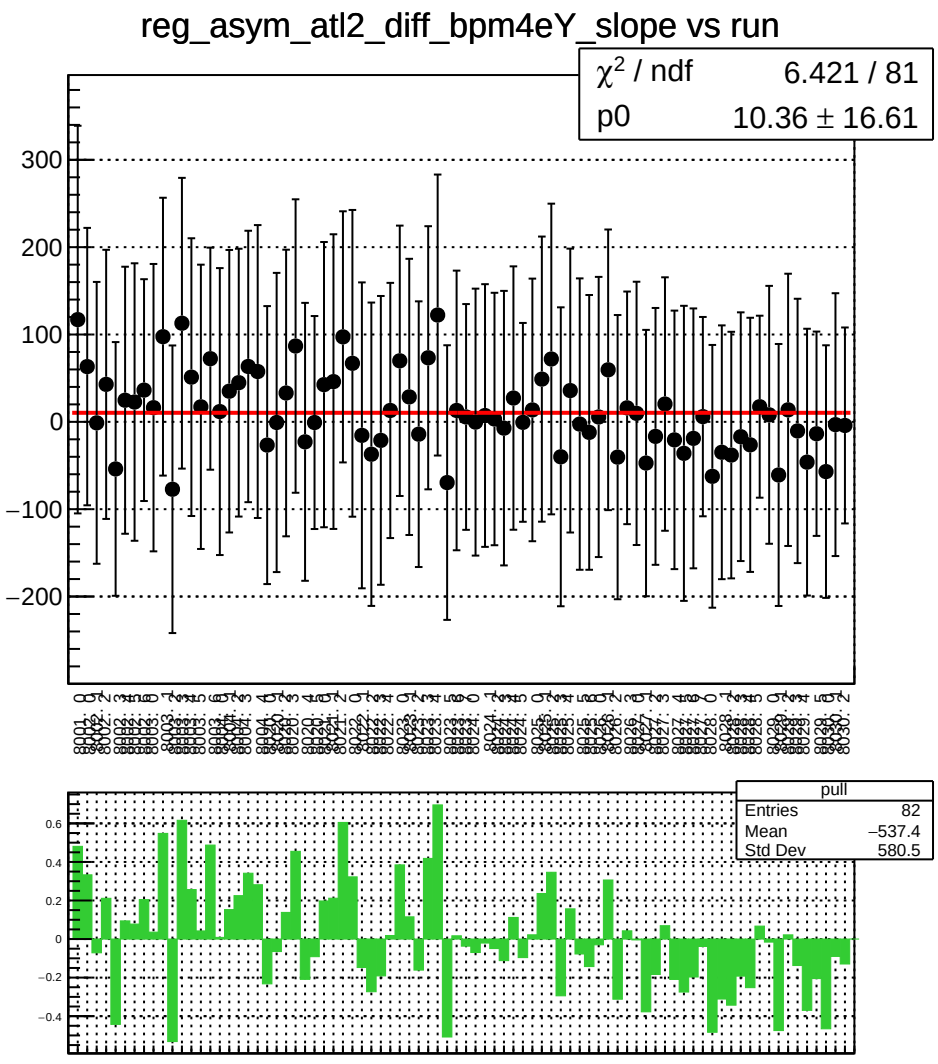

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 81.36 / 81
p0 −445.9 ± 9.852
pull
Entries 82
Mean −64.87
Std Dev 96.28
pull1D
Entries 82
Mean 0.1581
Std Dev 0.9834

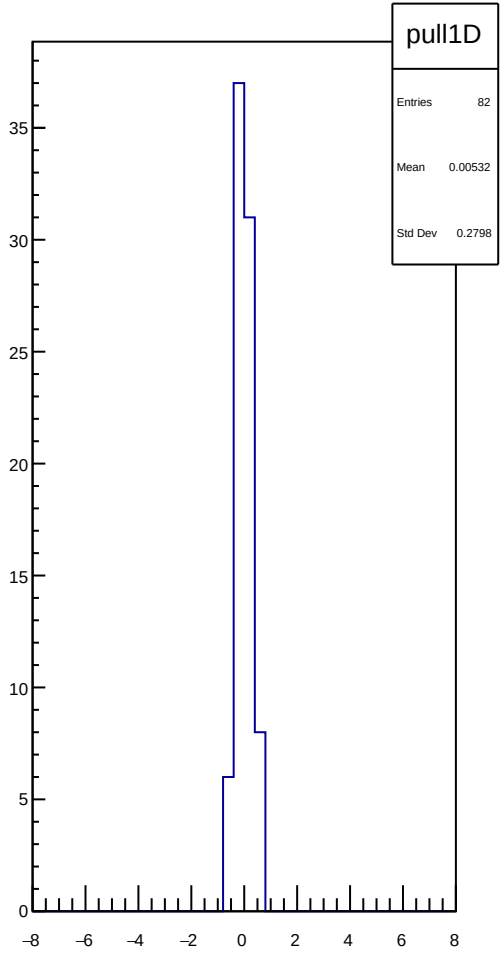

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 6.61 / 81
p0 96.43 ± 15.44
300
200
100
0
−100
−200
pull
Entries 82
Mean −1131
Std Dev 1175
0.4
0.2
0
−0.2
−0.4
−0.6

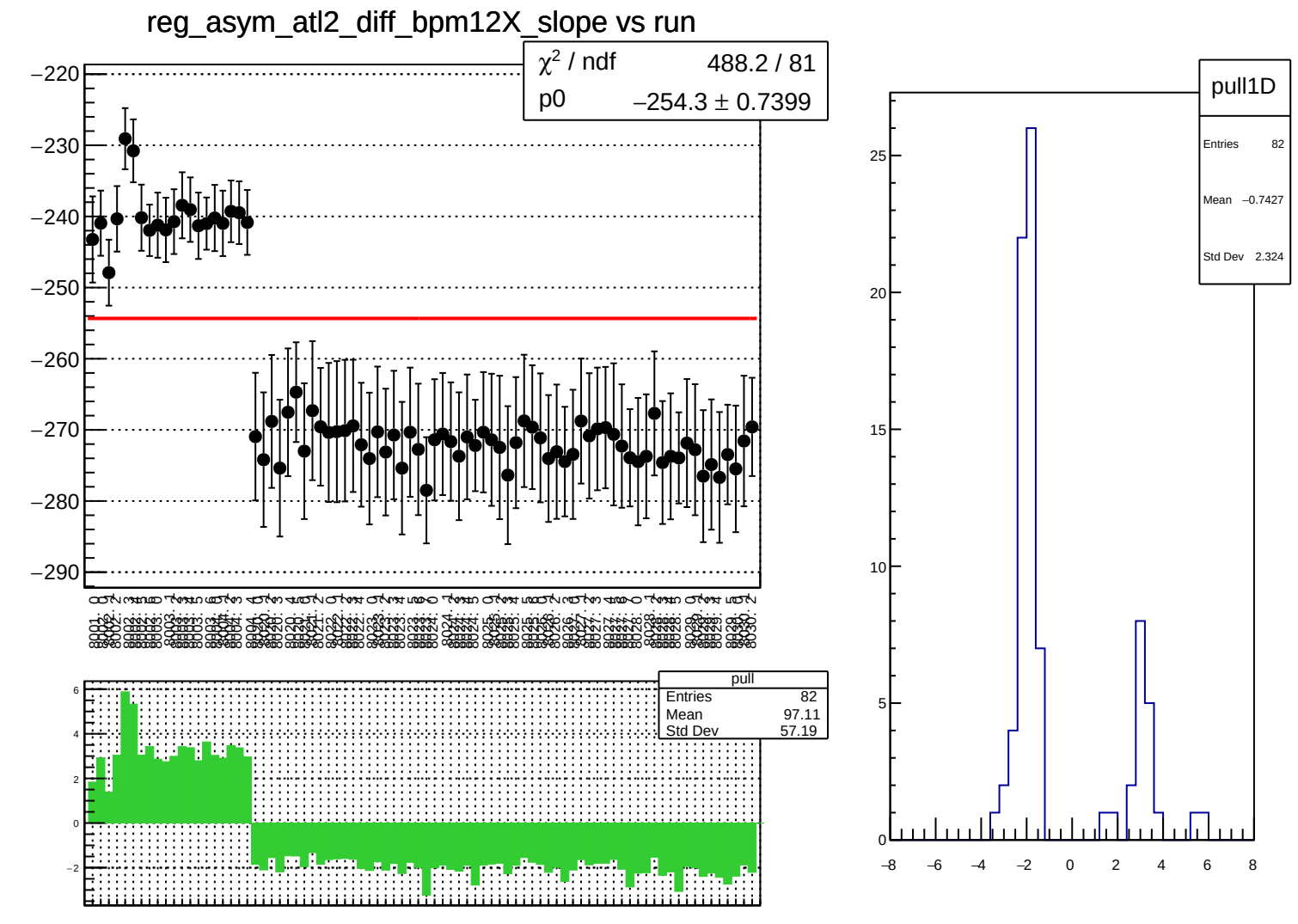

pull1D
Entries 82
Mean −0.002771
Std Dev 0.2839
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

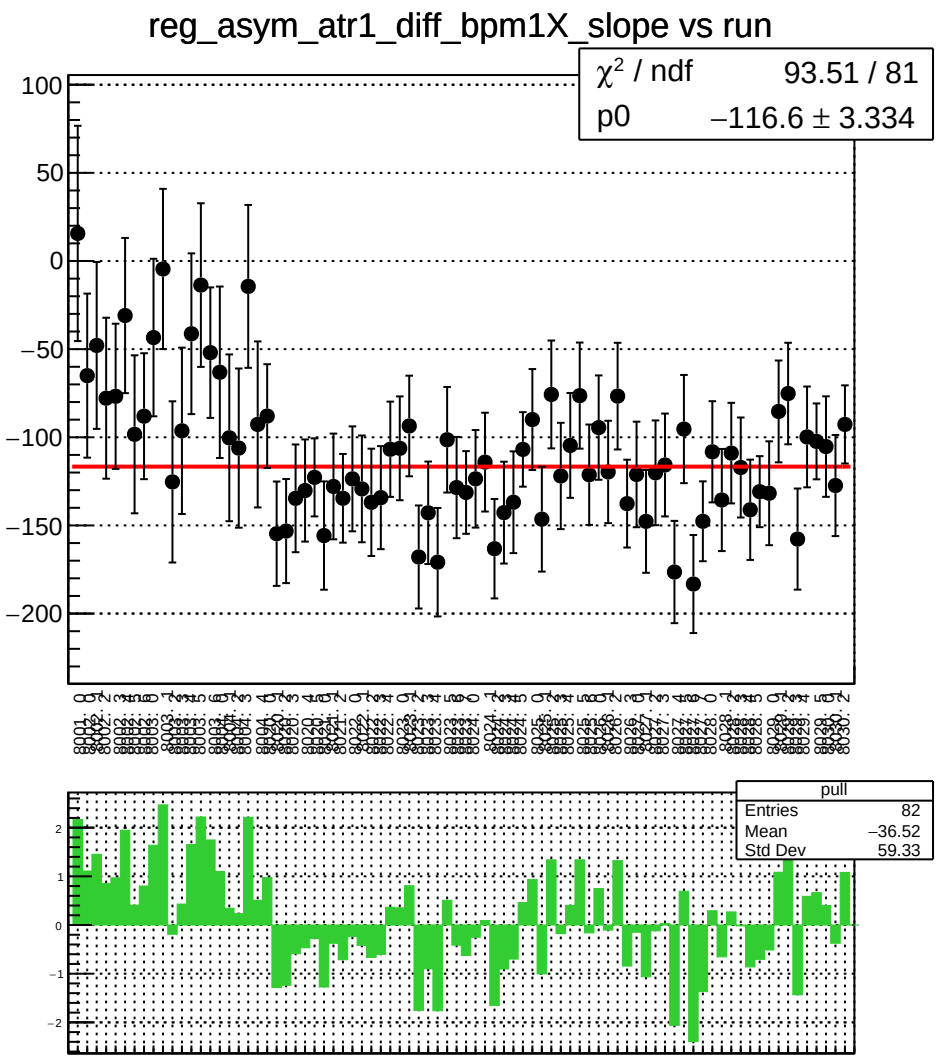

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 44.32 / 81
p0 289.5 ± 10.28
500
400
300
200
100
0
pull
Entries 82
Mean −109
Std Dev 141.5
0.5
0
−0.5
−1
−1.5

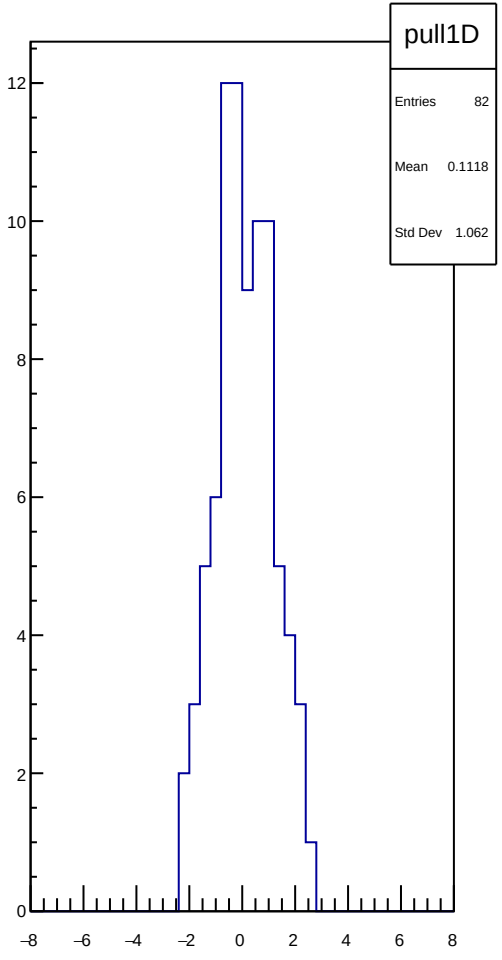

pull1D
Entries 82
Mean −0.08044
Std Dev 0.7308
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

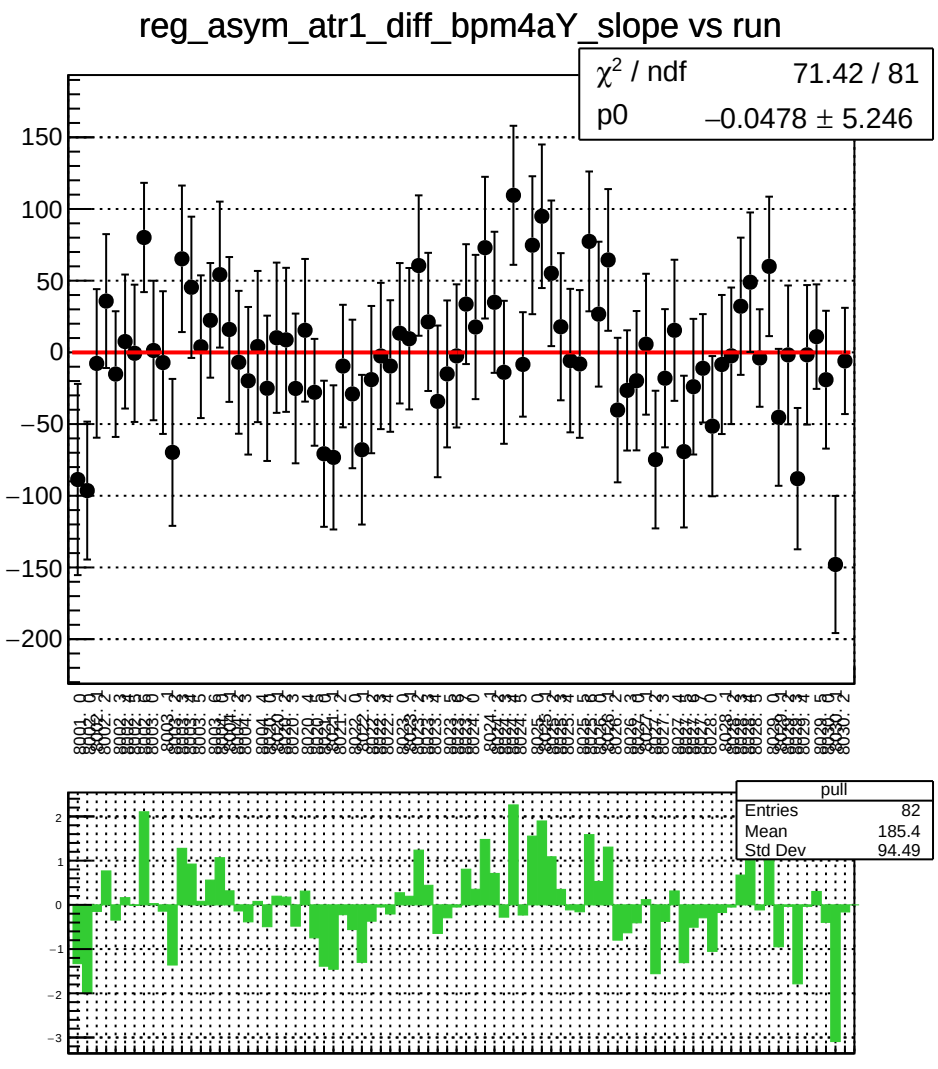

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 6.421 / 81
p0 10.36 ± 16.61
300
200
100
0
−100
−200
pull
Entries 82
Mean −537.4
Std Dev 580.5
0.6
0.4
0.2
0
−0.2
−0.4

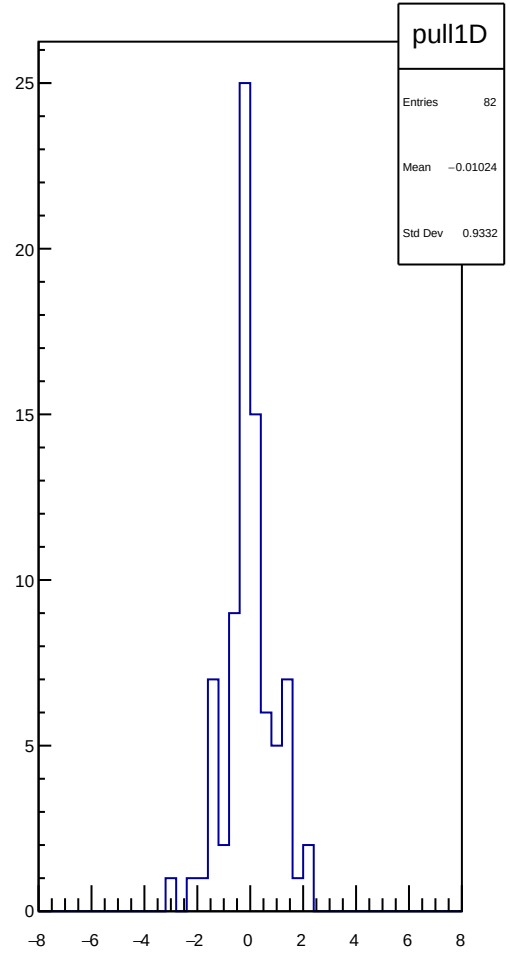

pull1D
Entries 82
Mean 0.00532
Std Dev 0.2798
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

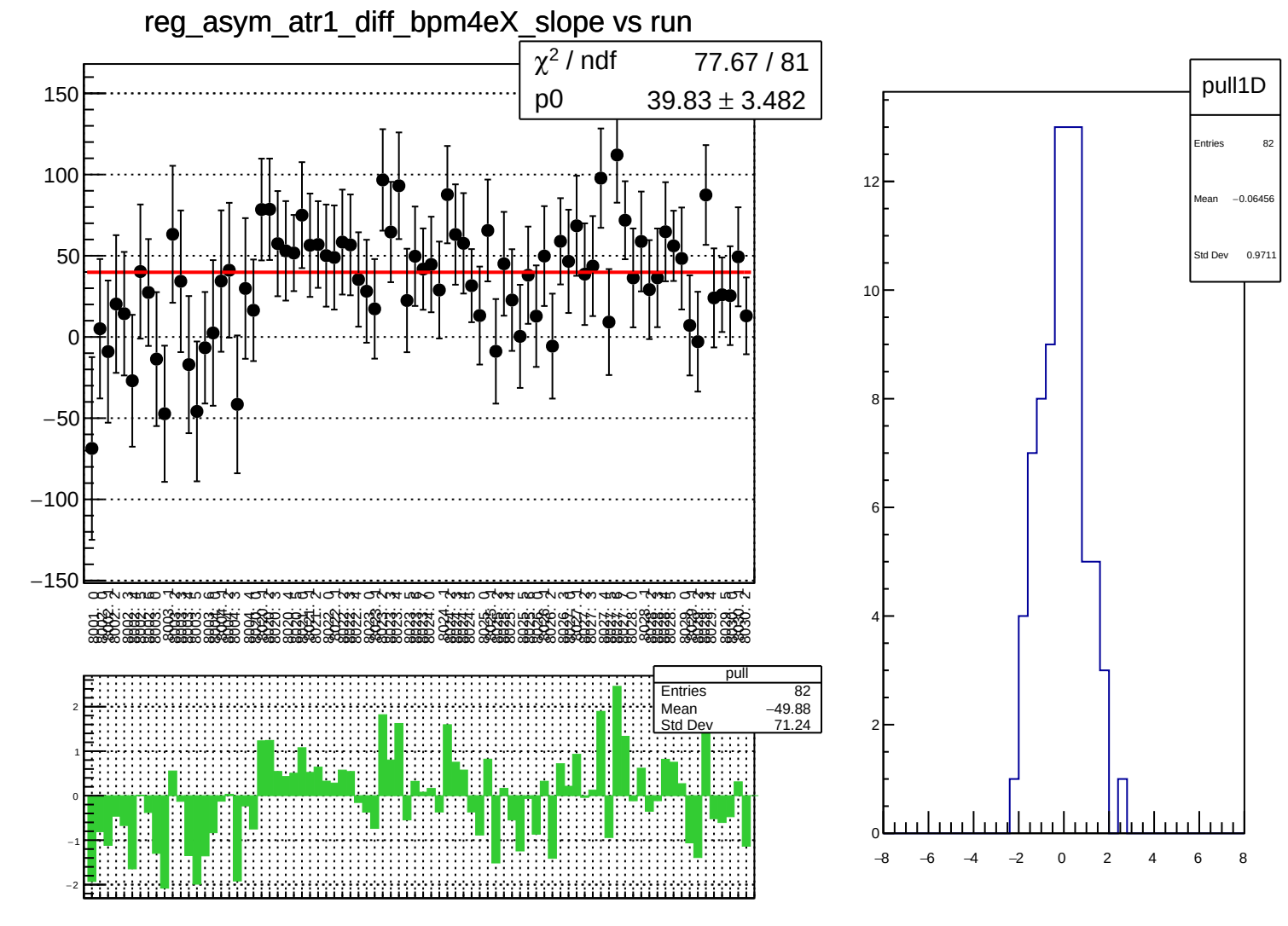

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 488.2 / 81
p0 −254.3 ± 0.7399
−220
−230
−240
−250
−260
−270
−280
−290
pull
Entries 82
Mean 97.11
Std Dev 57.19
6
4
2
0
−2
pull1D
Entries 82
Mean −0.7427
Std Dev 2.324
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

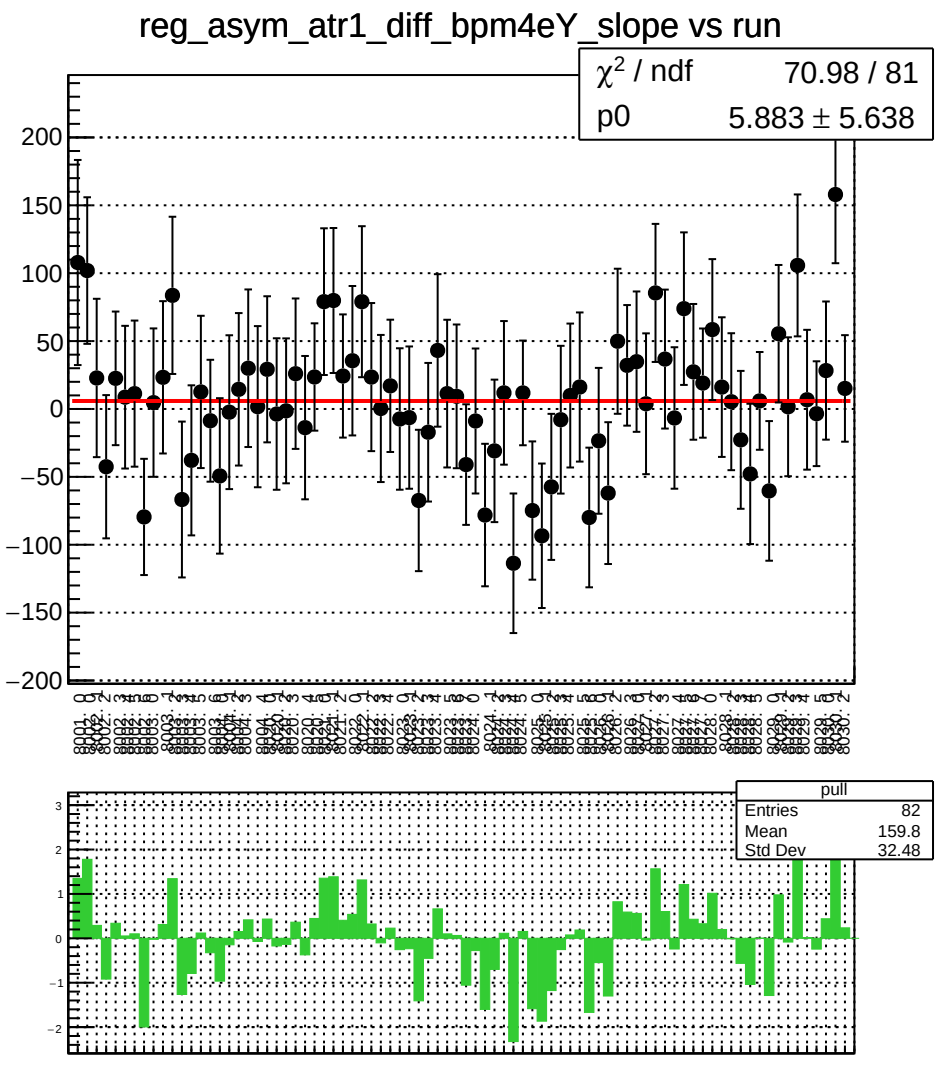

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 93.51 / 81
p0 −116.6 ± 3.334
pull
Entries 82
Mean −36.52
Std Dev 59.33

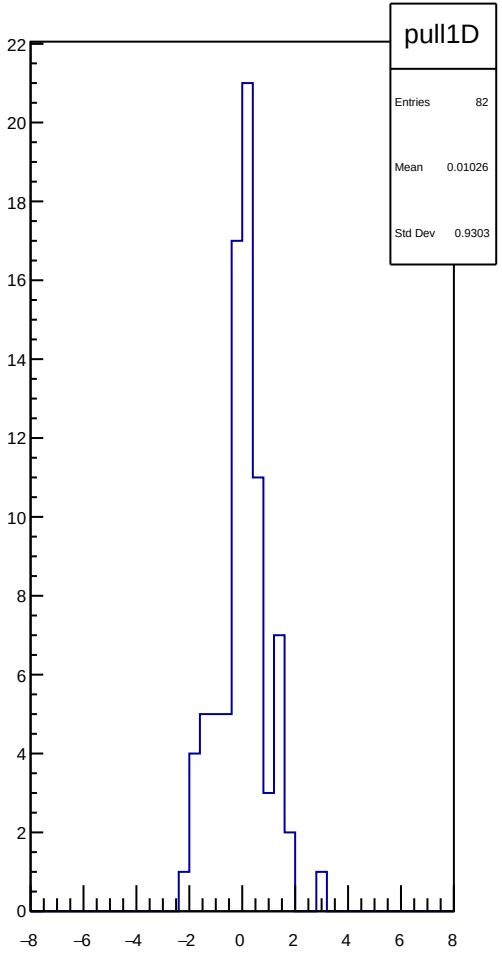

pull1D
Entries 82
Mean 0.1118
Std Dev 1.062

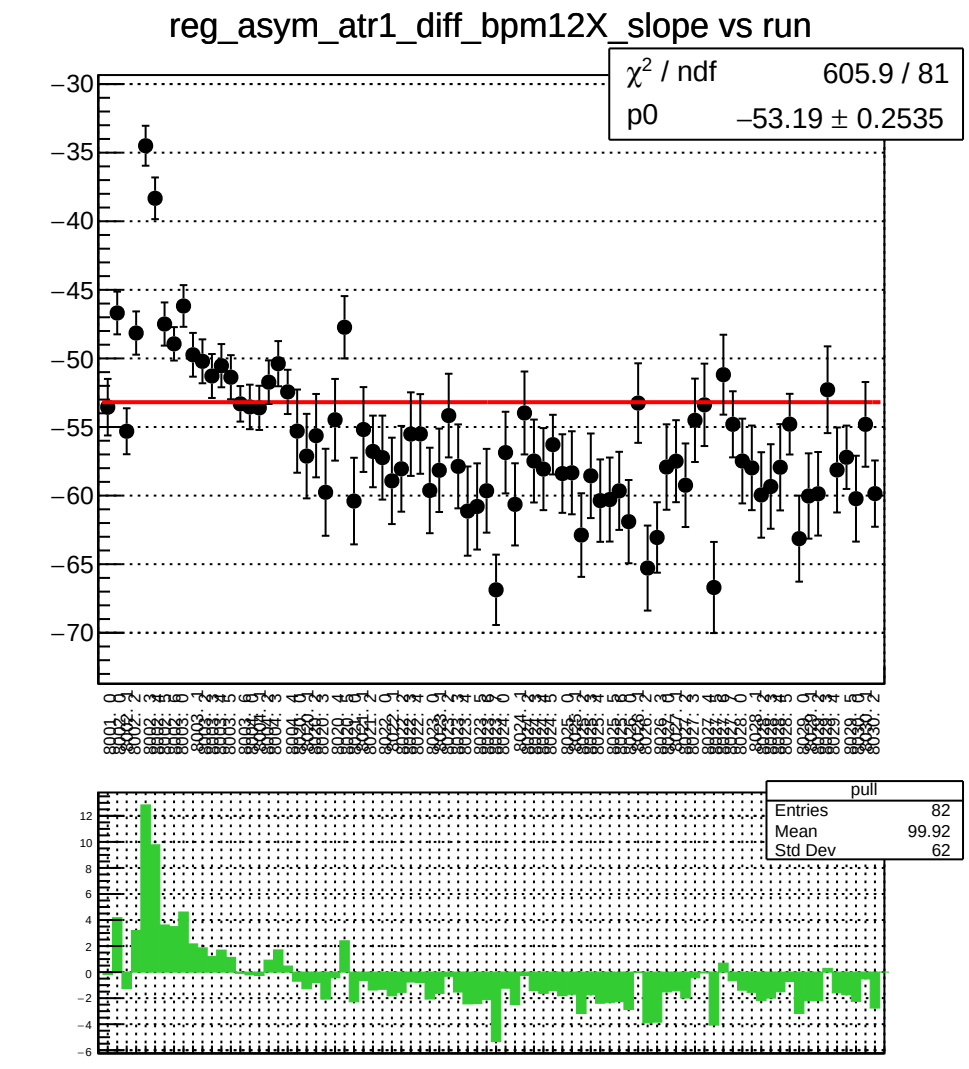

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 71.42 / 81
p0 −0.0478 ± 5.246
pull
Entries 82
Mean 185.4
Std Dev 94.49

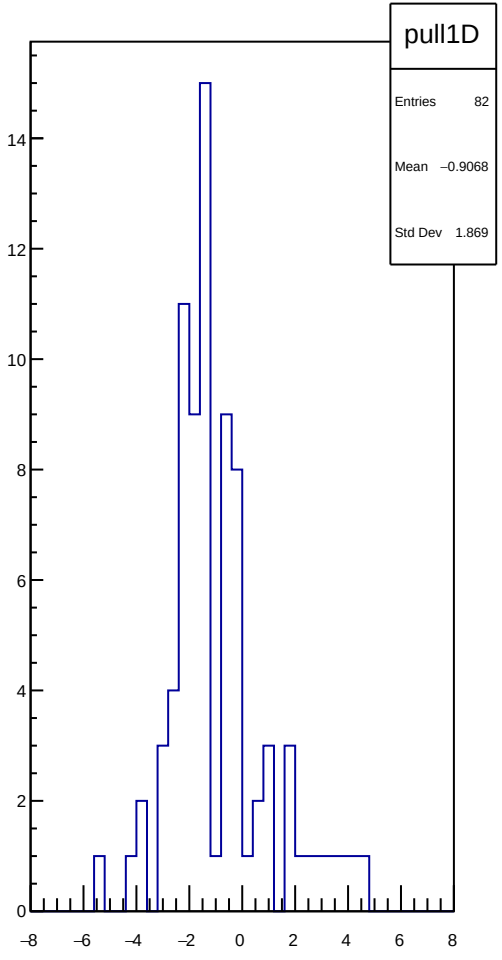

pull1D
Entries 82
Mean −0.01024
Std Dev 0.9332

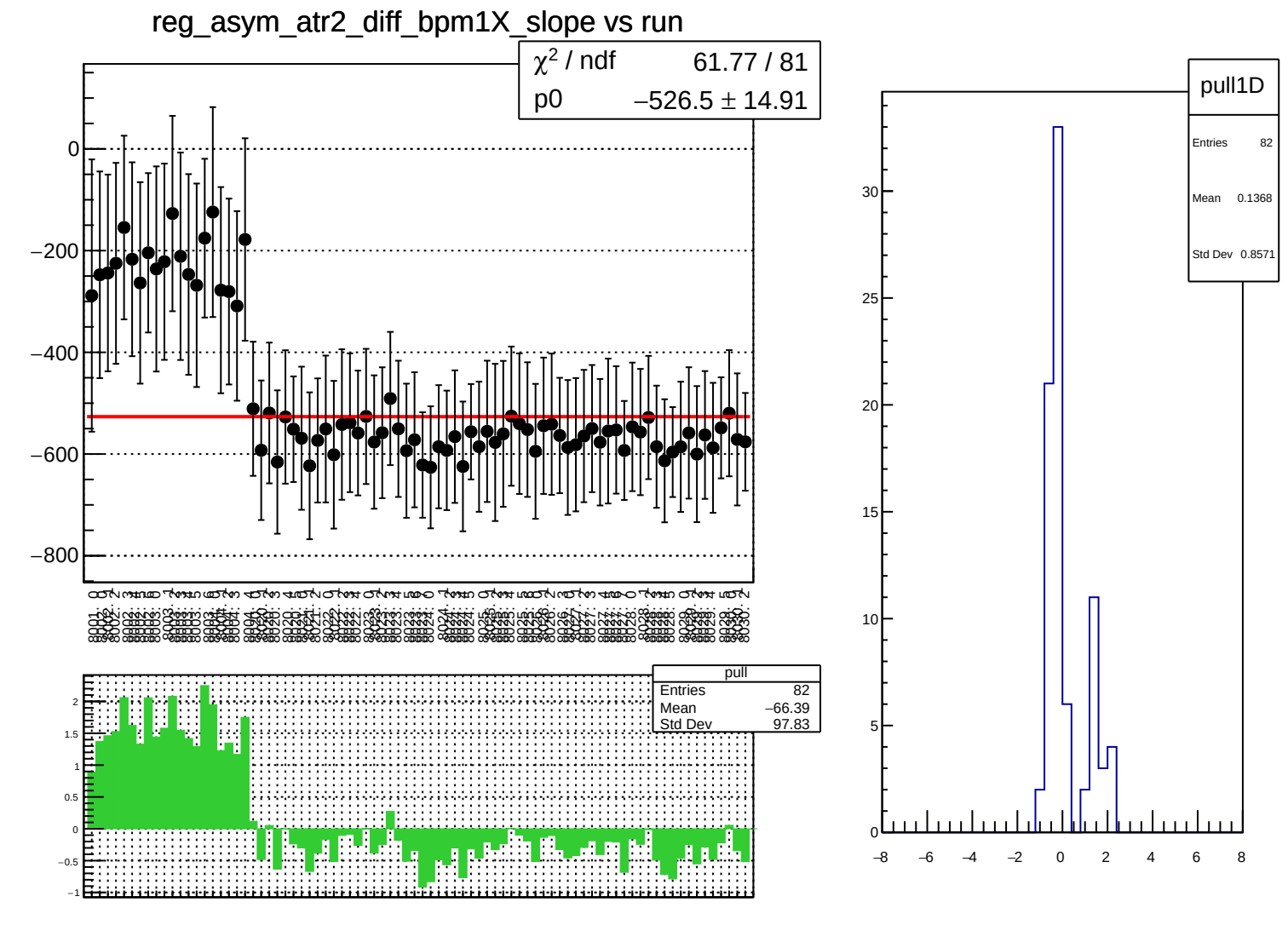

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 77.67 / 81
p0 39.83 ± 3.482
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −49.88
Std Dev 71.24
2
1
0
−1
−2
pull1D
Entries 82
Mean −0.06456
Std Dev 0.9711
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

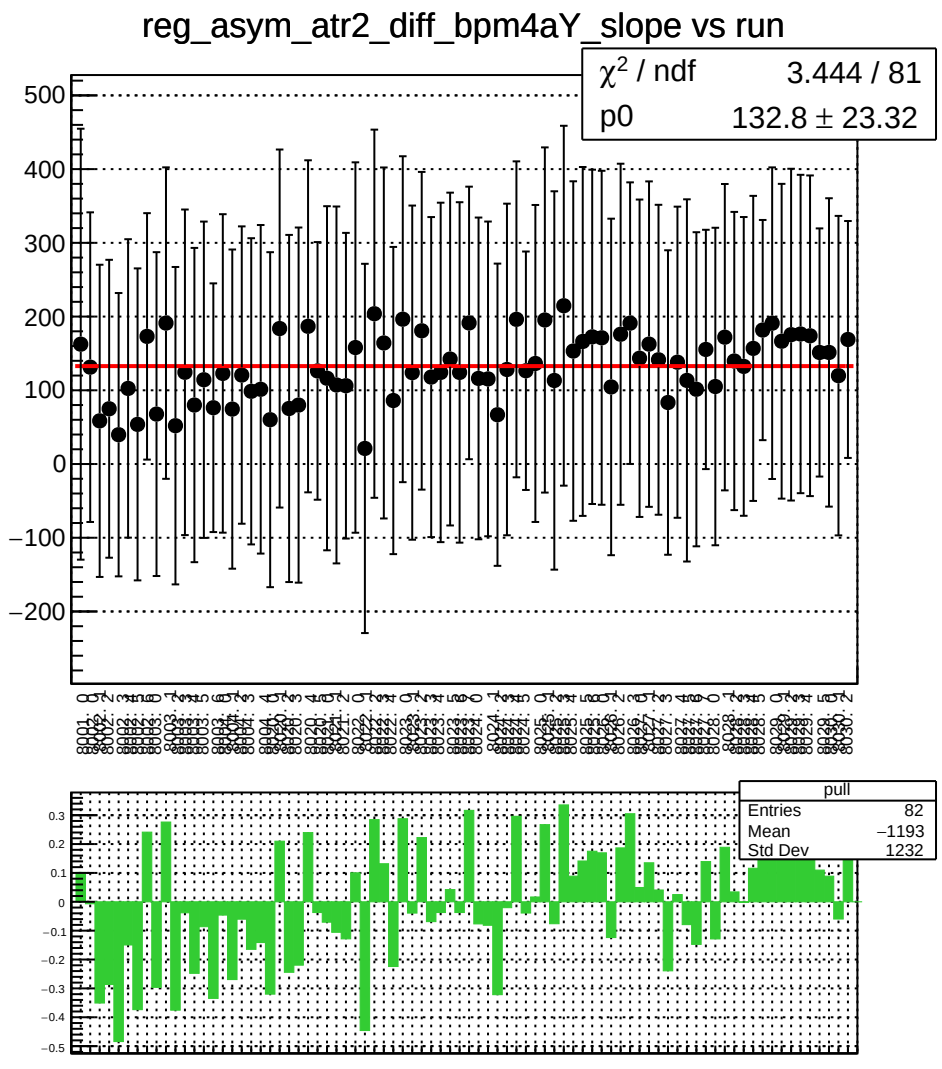

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 70.98 / 81
p0 5.883 ± 5.638
pull
Entries 82
Mean 159.8
Std Dev 32.48

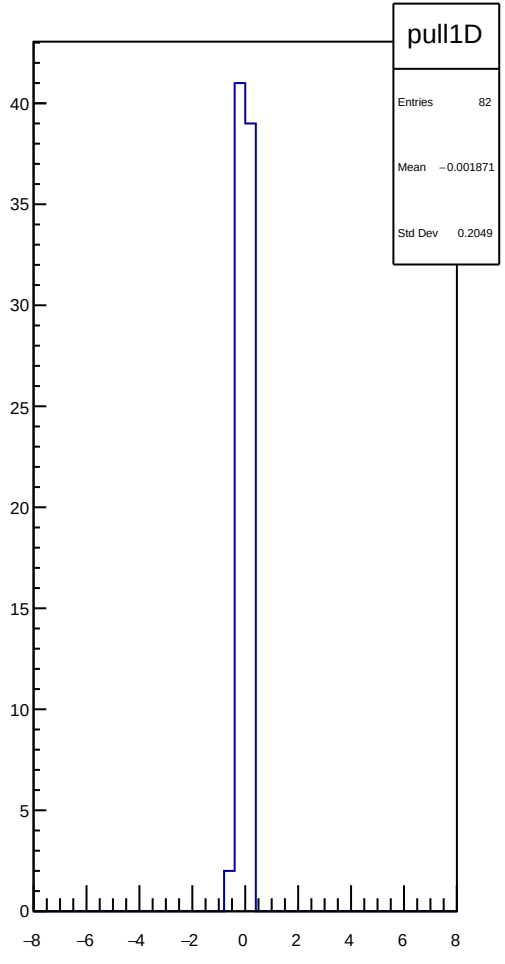

pull1D
Entries 82
Mean 0.01026
Std Dev 0.9303

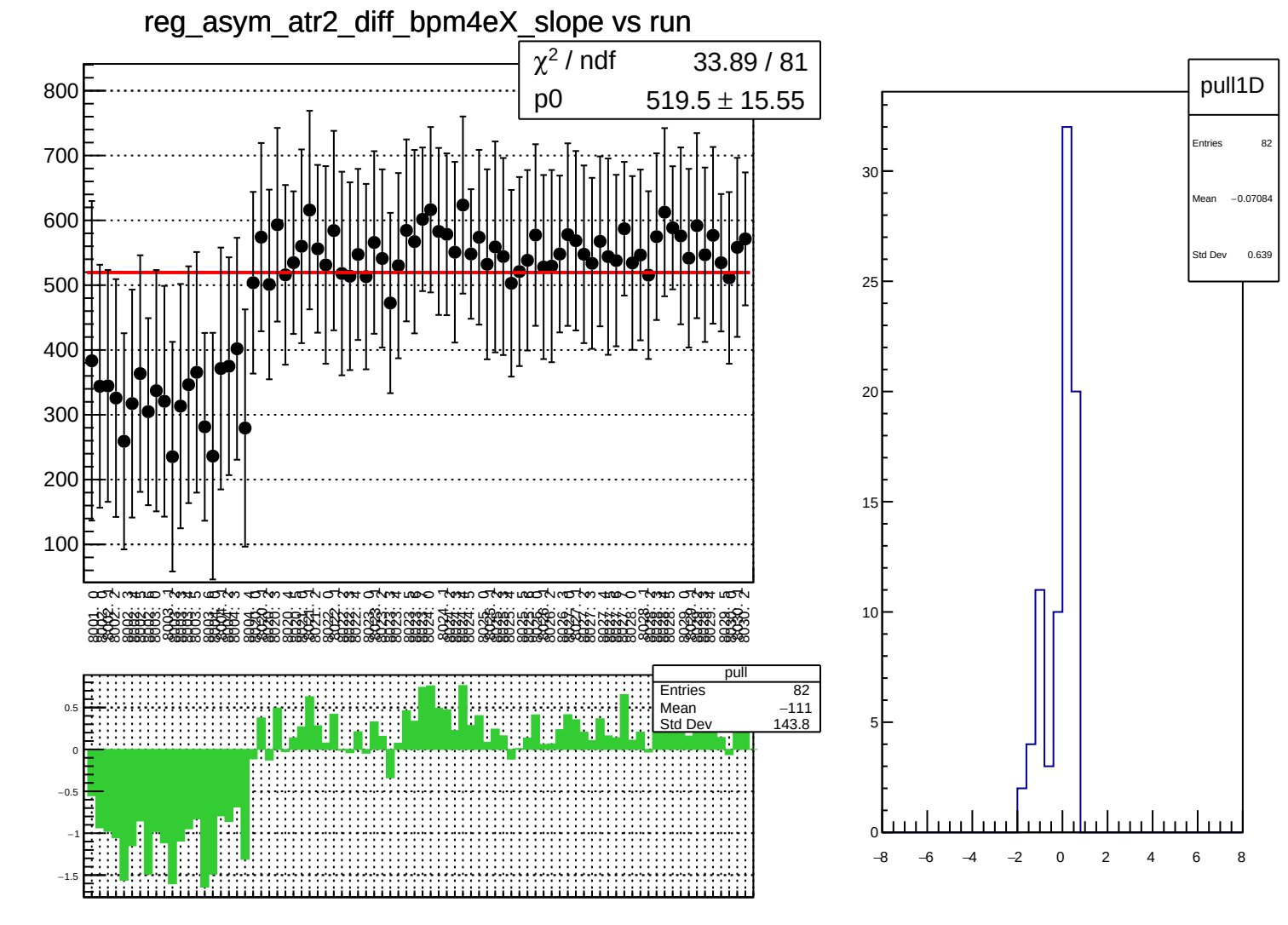

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 605.9 / 81
p0 −53.19 ± 0.2535
pull
Entries 82
Mean 99.92
Std Dev 62

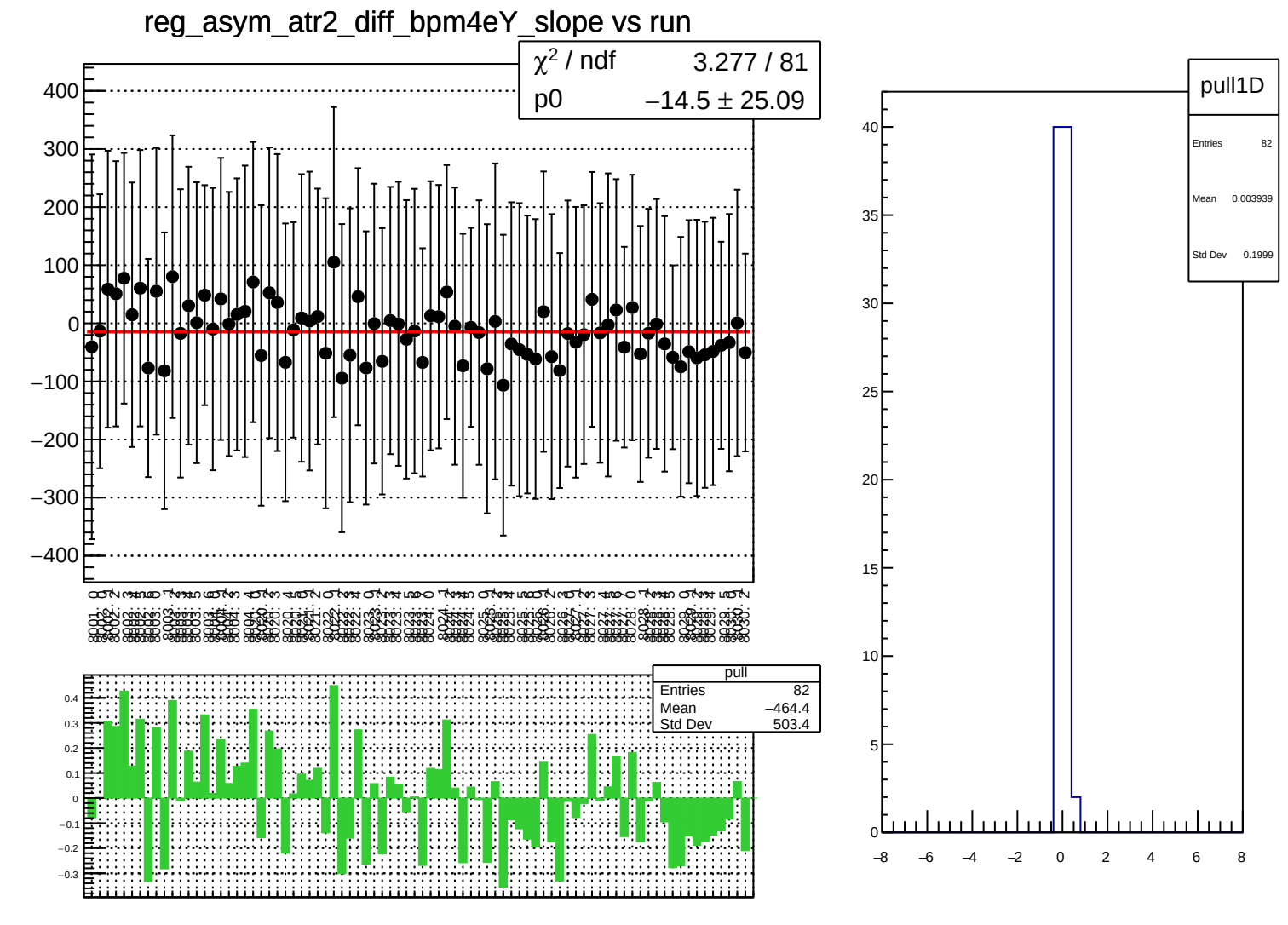

pull1D
Entries 82
Mean −0.9068
Std Dev 1.869

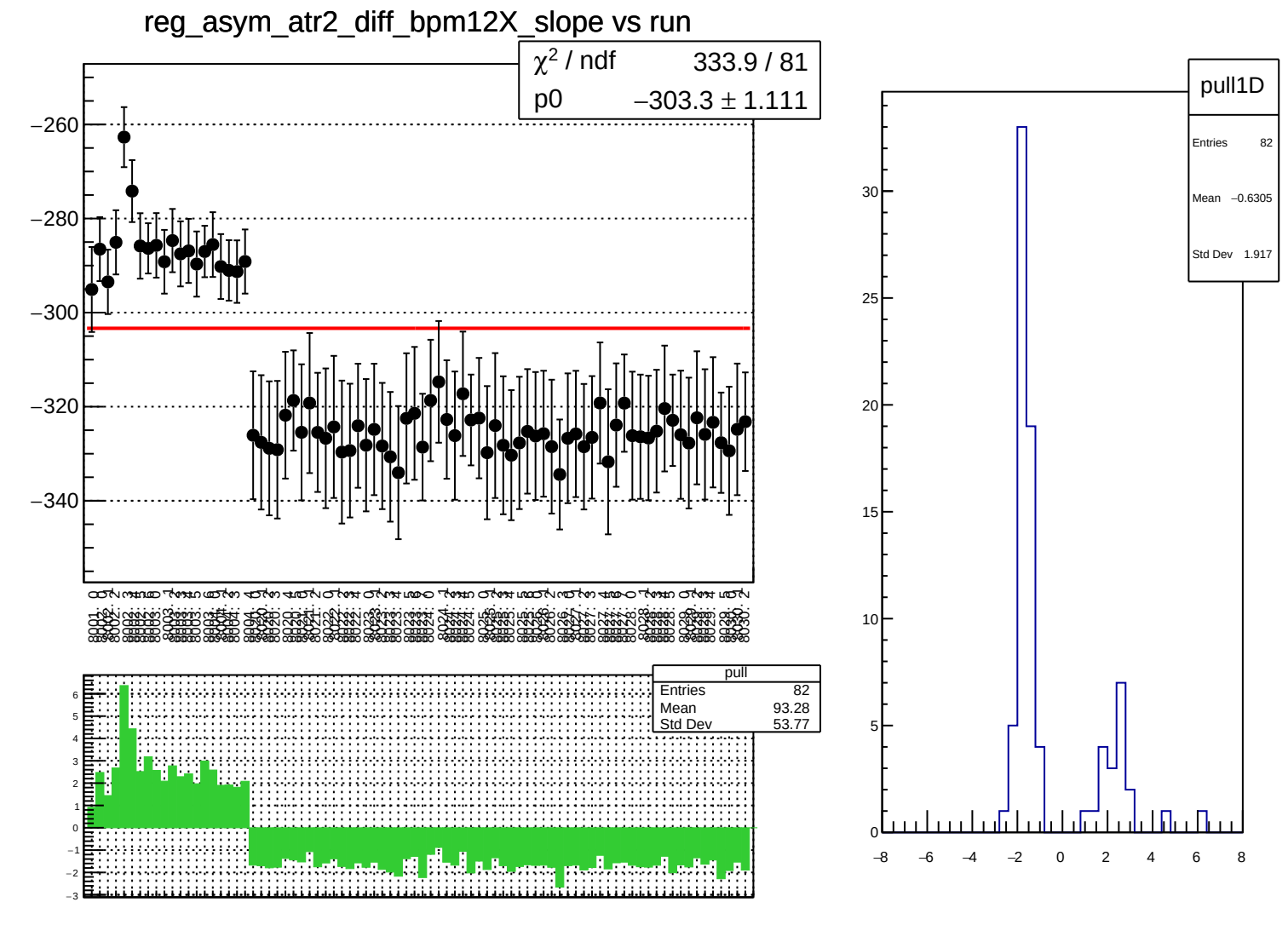

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 61.77 / 81
p0 −526.5 ± 14.91
pull
Entries 82
Mean −66.39
Std Dev 97.83
pull1D
Entries 82
Mean 0.1368
Std Dev 0.8571

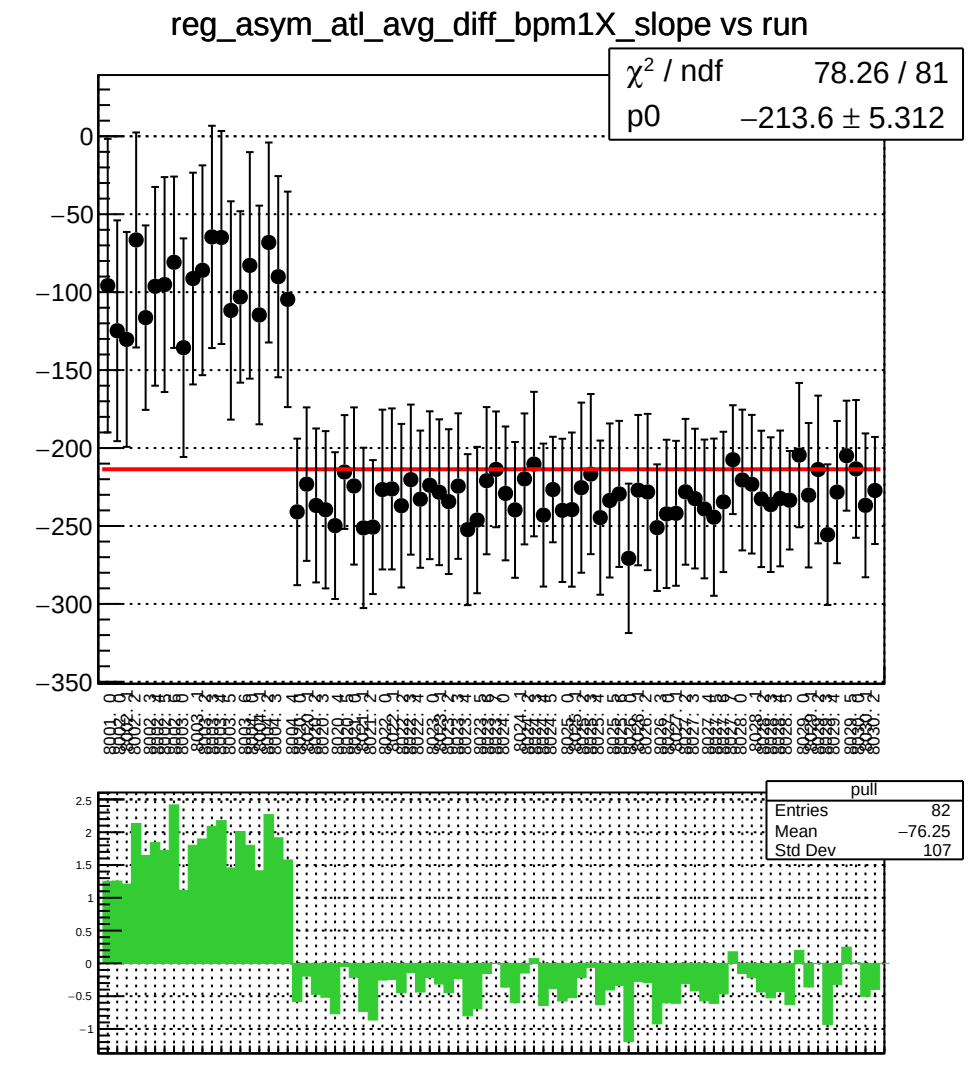

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 3.444 / 81
p0 132.8 ± 23.32
pull
Entries 82
Mean −1193
Std Dev 1232

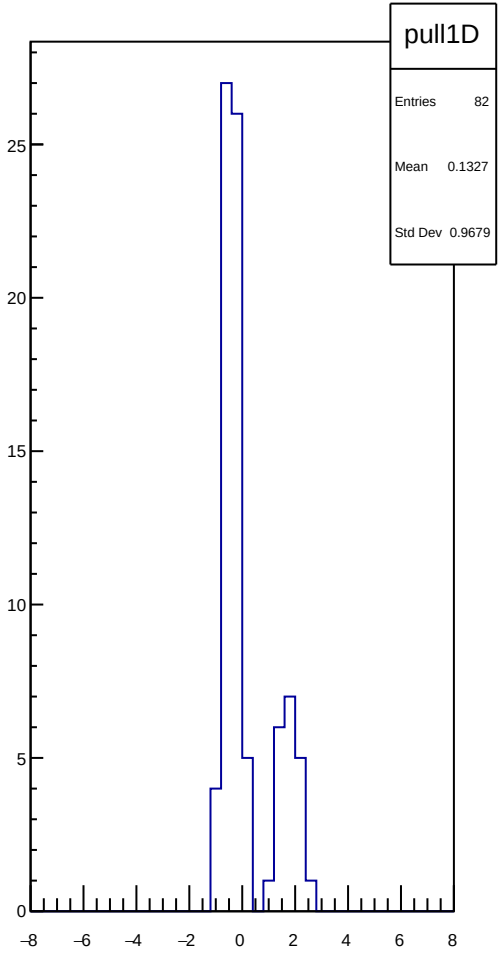

pull1D
Entries 82
Mean −0.001871
Std Dev 0.2049

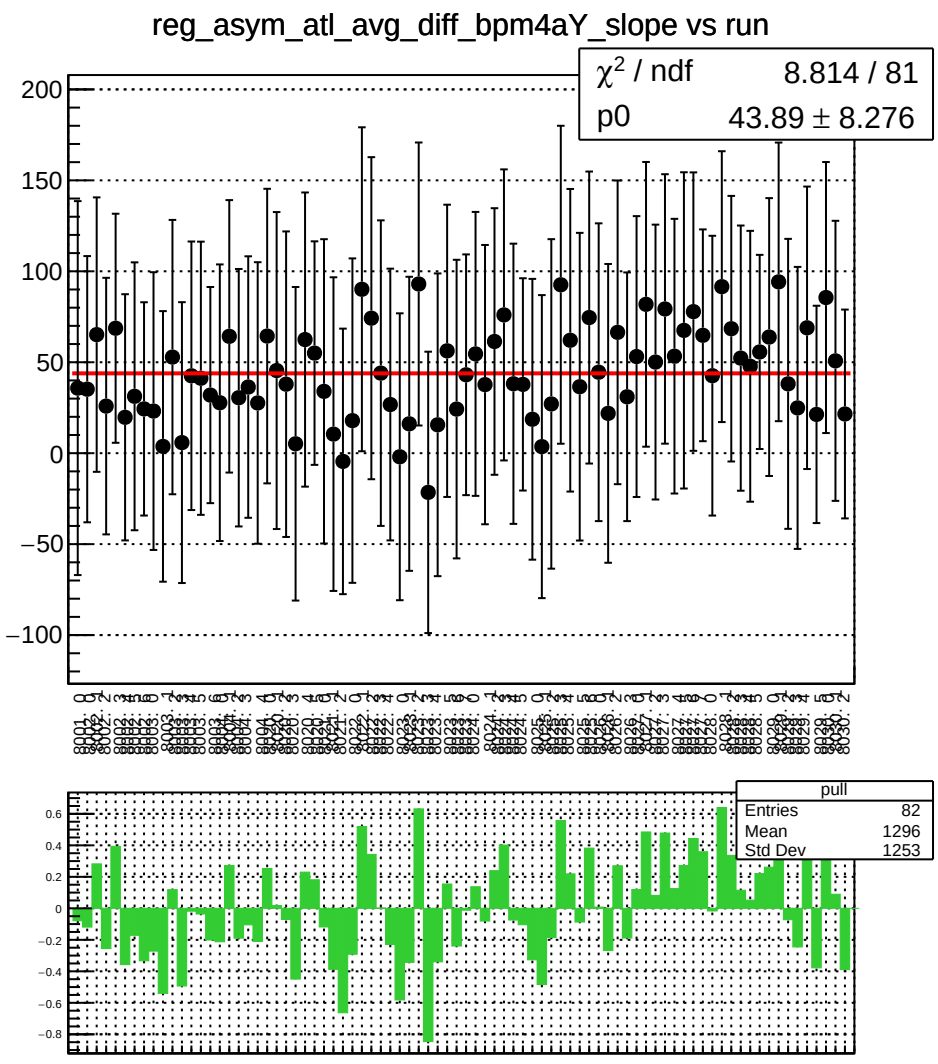

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 33.89 / 81
p0 519.5 ± 15.55
pull
Entries 82
Mean −111
Std Dev 143.8
pull1D
Entries 82
Mean −0.07084
Std Dev 0.639

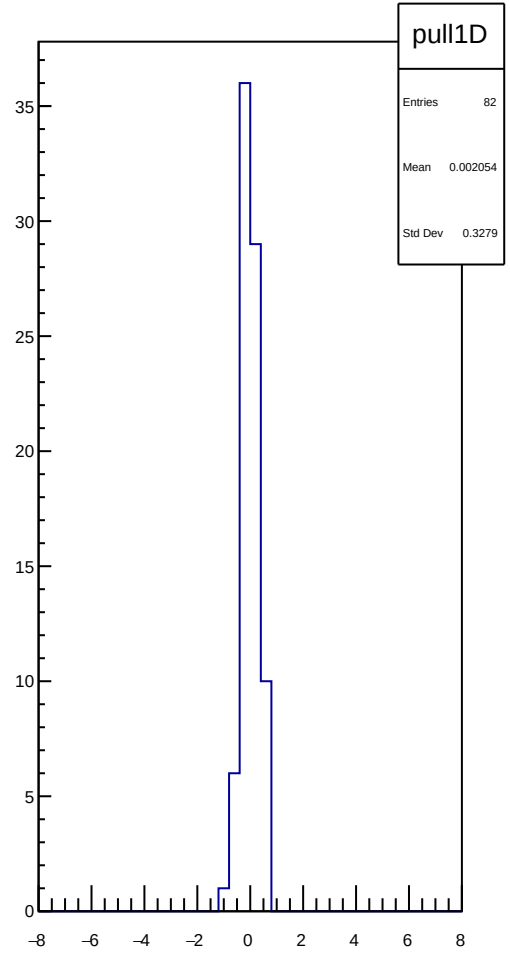

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.277 / 81
p0 −14.5 ± 25.09
pull
Entries 82
Mean −464.4
Std Dev 503.4
pull1D
Entries 82
Mean 0.003939
Std Dev 0.1999

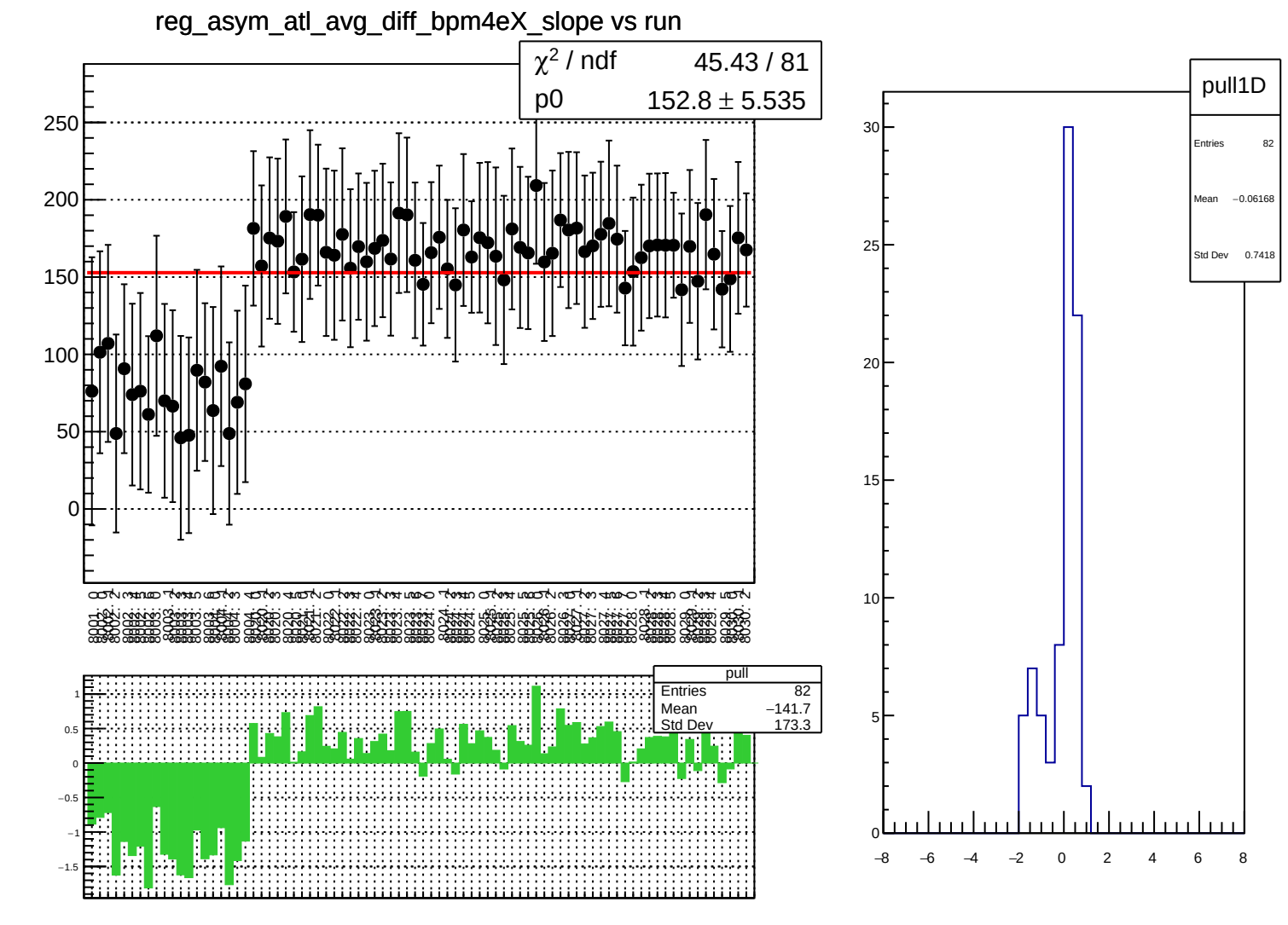

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 333.9 / 81
p0 −303.3 ± 1.111
−260
−280
−300
−320
−340
pull
Entries 82
Mean 93.28
Std Dev 53.77
pull1D
Entries 82
Mean −0.6305
Std Dev 1.917
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

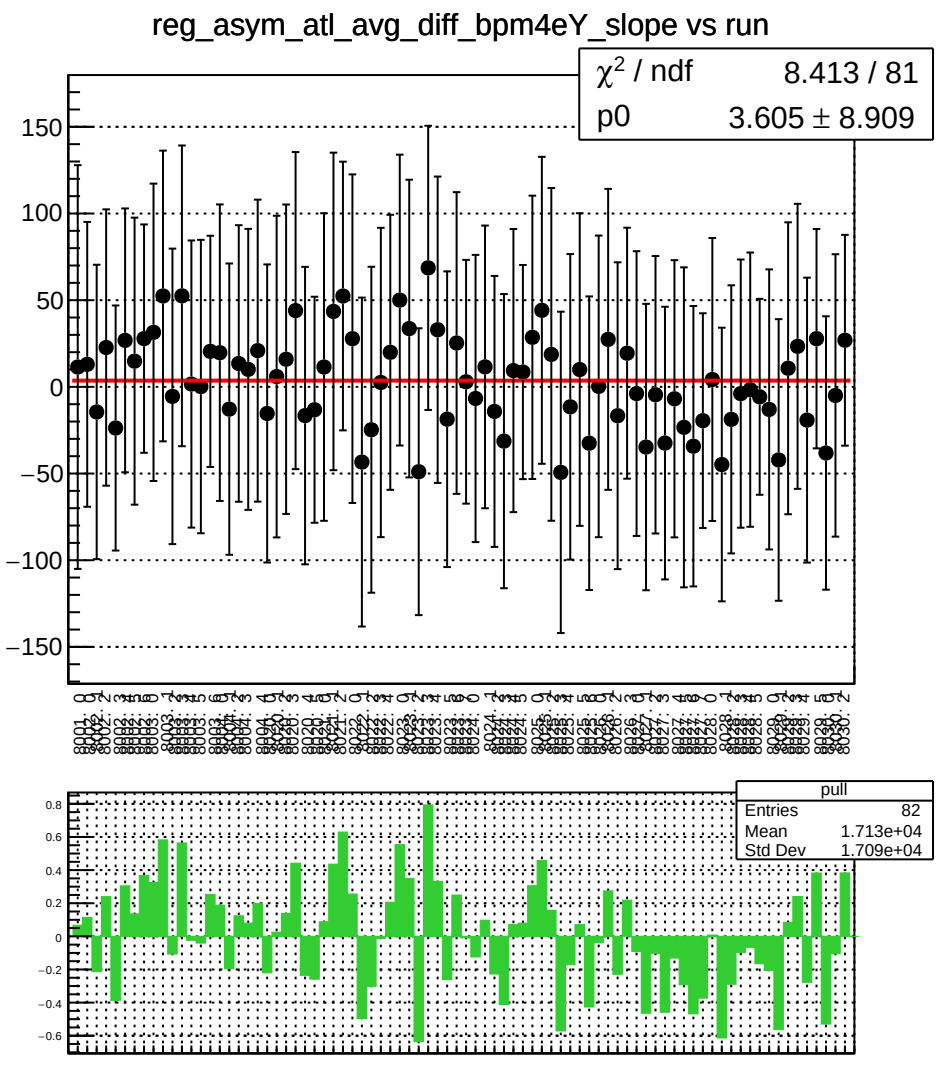

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 78.26 / 81
p0 −213.6 ± 5.312
pull
Entries 82
Mean −76.25
Std Dev 107

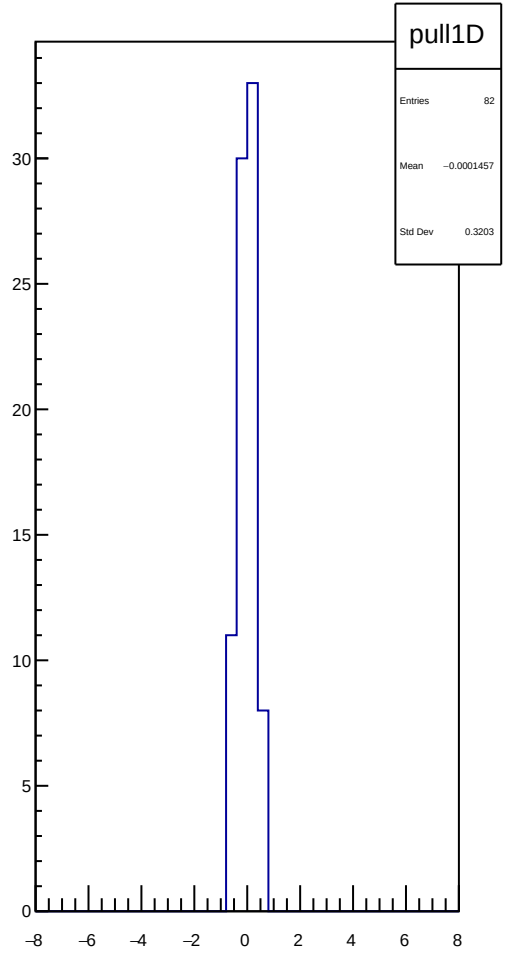

pull1D
Entries 82
Mean 0.1327
Std Dev 0.9679

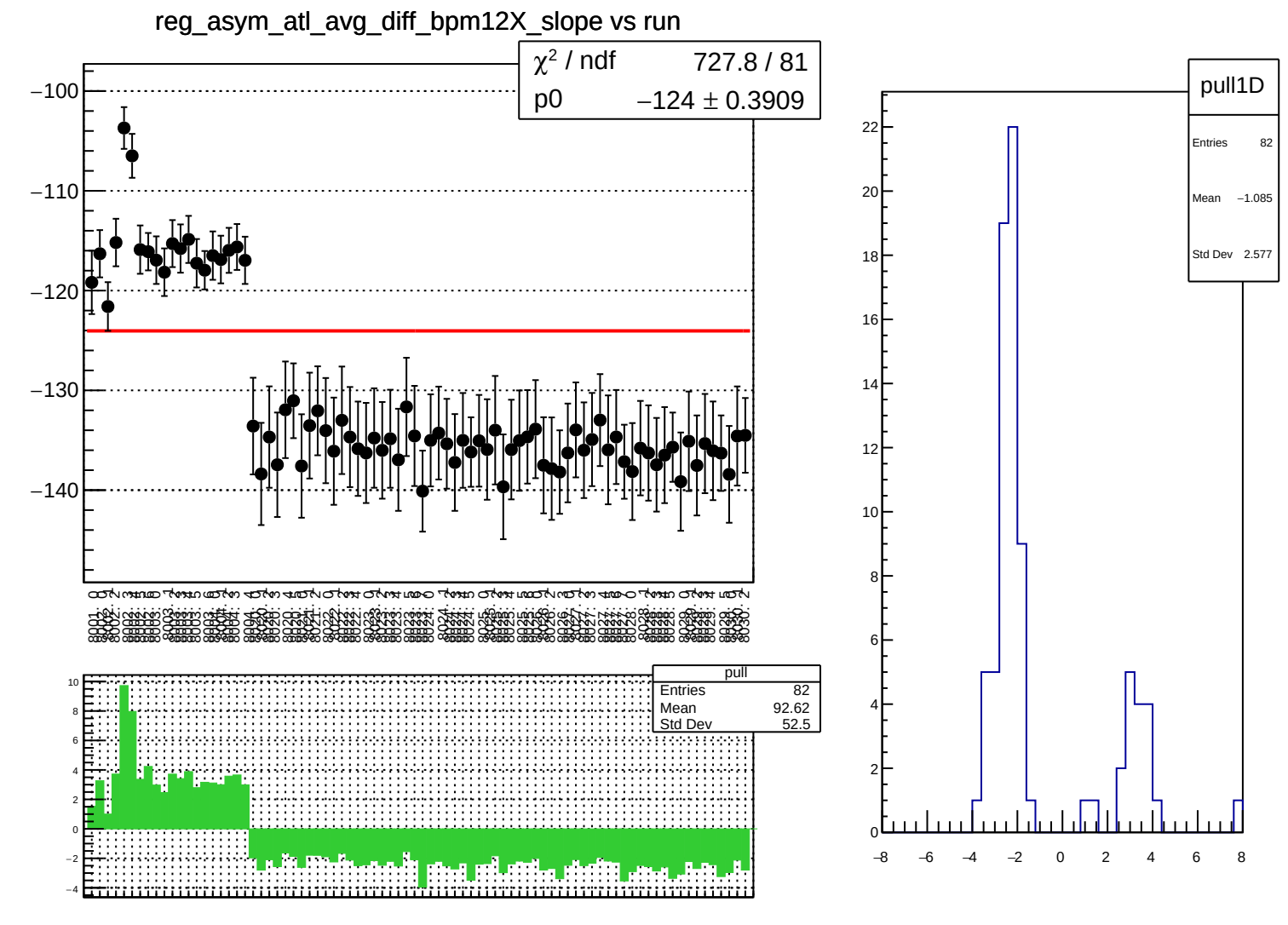

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.814 / 81
p0 43.89 ± 8.276
pull
Entries 82
Mean 1296
Std Dev 1253

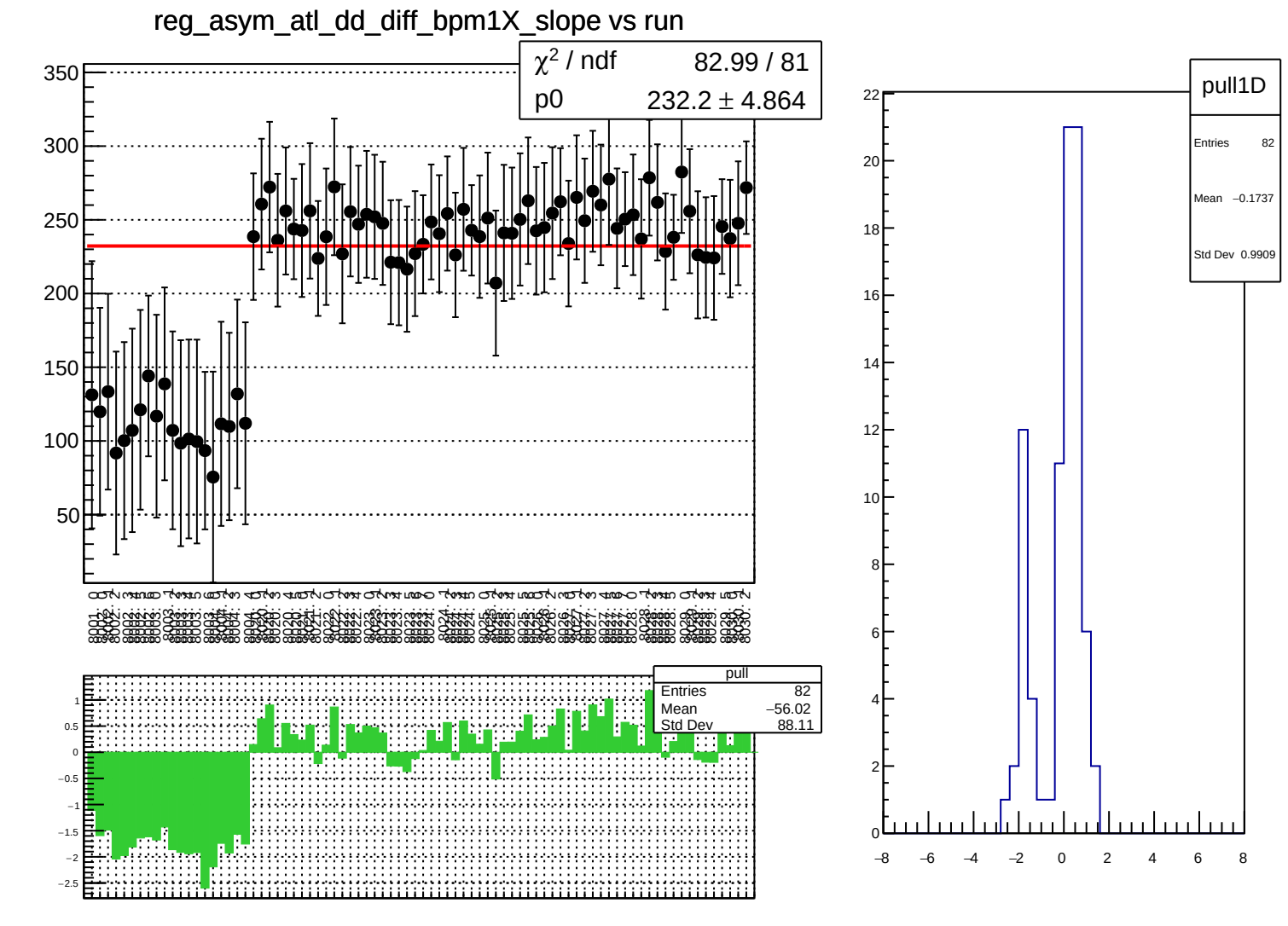

pull1D
Entries 82
Mean 0.002054
Std Dev 0.3279

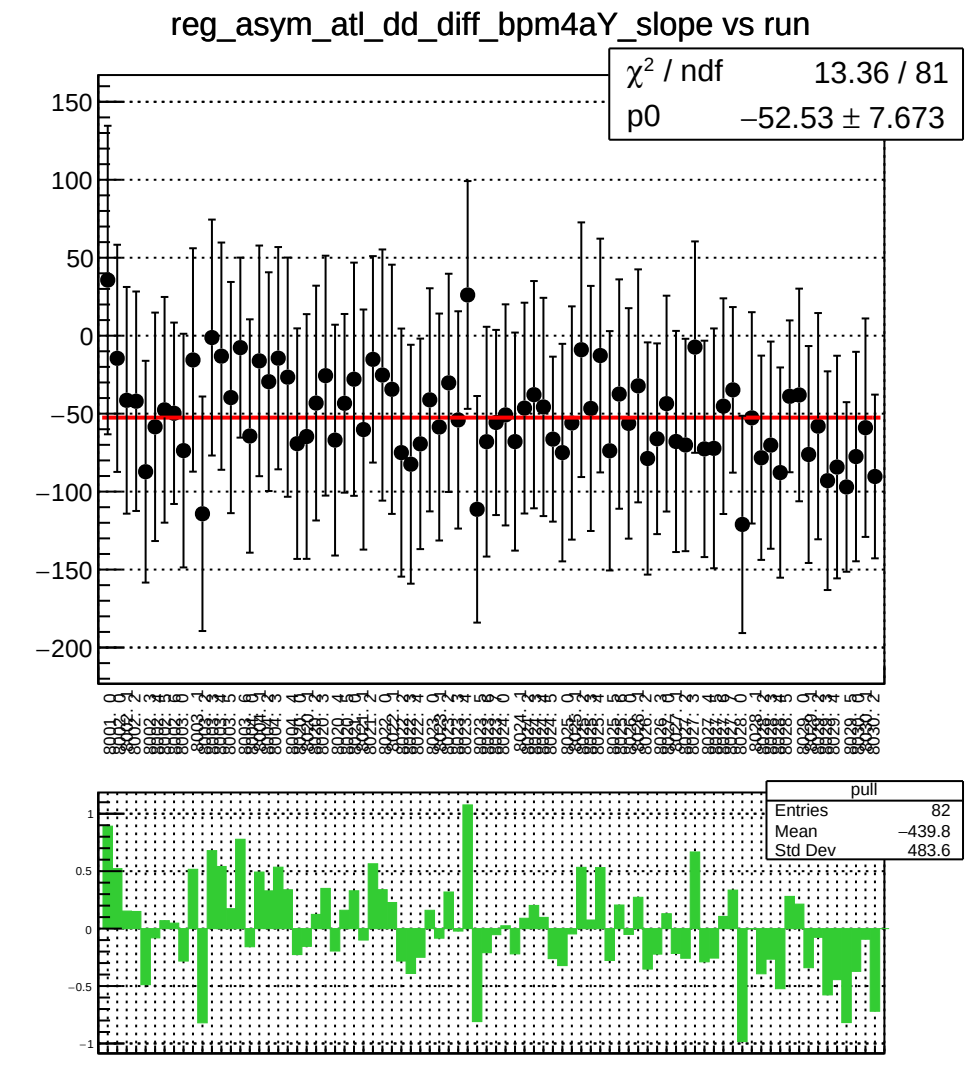

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.43 / 81
p0 152.8 ± 5.535
250
200
150
100
50
0
pull
Entries 82
Mean −141.7
Std Dev 173.3
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean −0.06168
Std Dev 0.7418
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

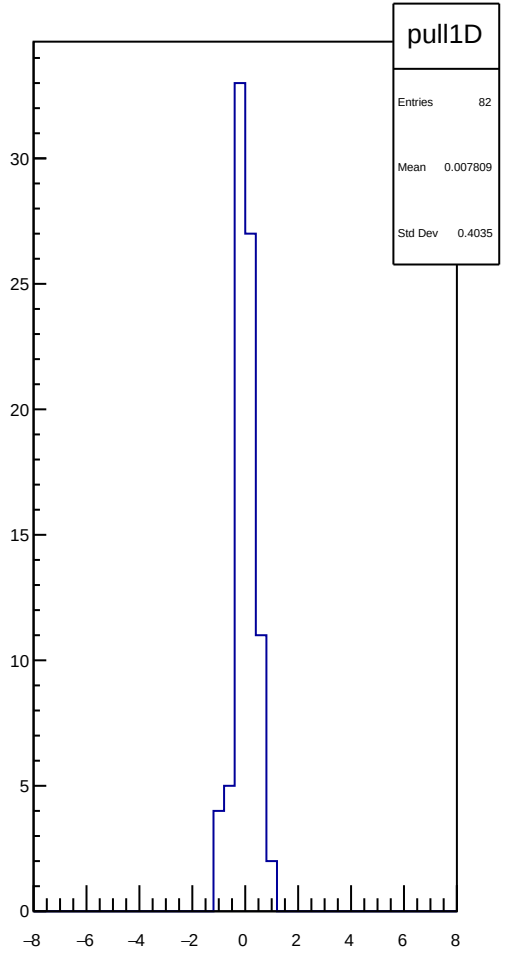

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.413 / 81
p0 3.605 ± 8.909
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 1.713e+04
Std Dev 1.709e+04
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

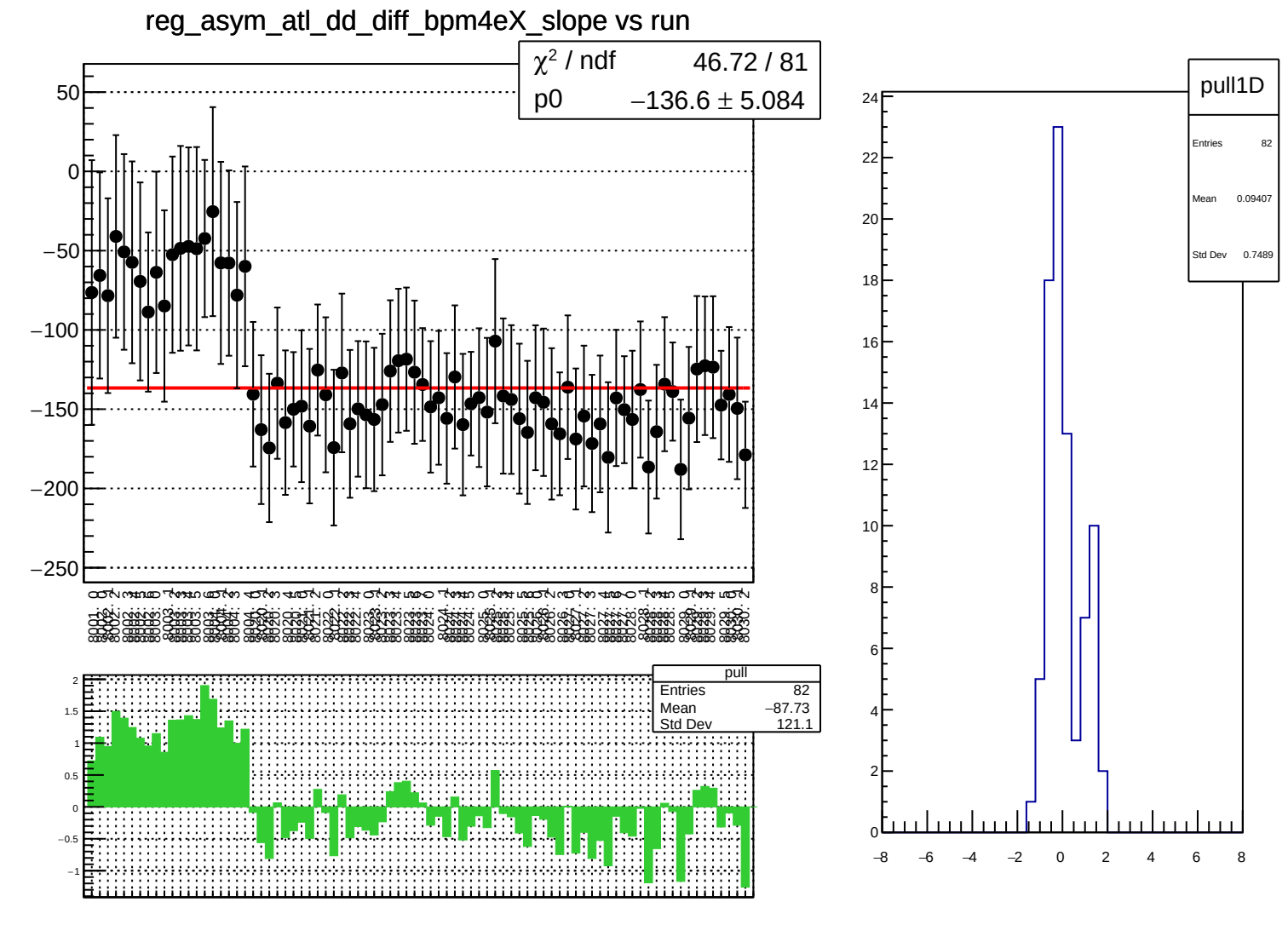

pull1D
Entries 82
Mean −0.0001457
Std Dev 0.3203
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

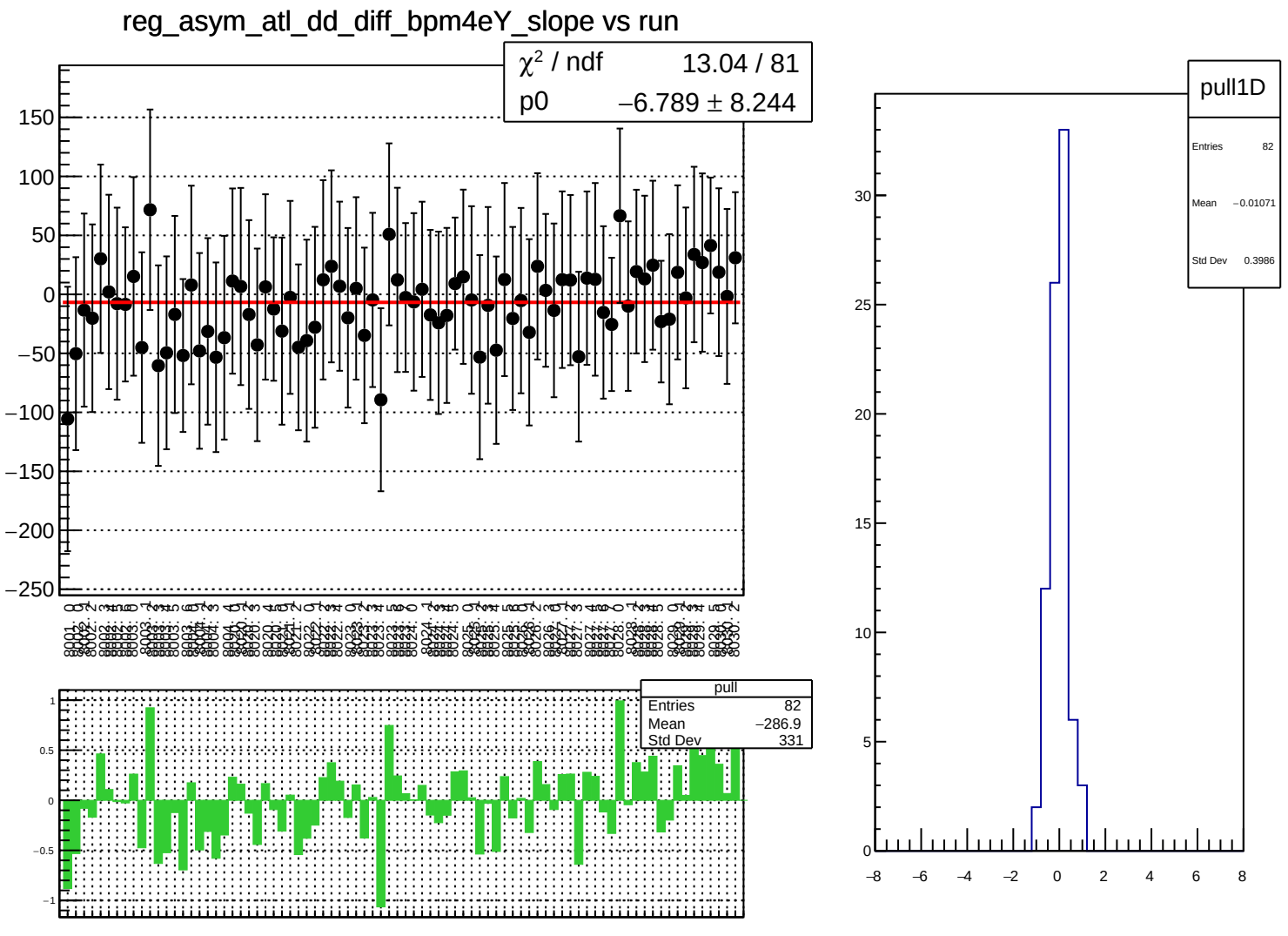

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 727.8 / 81
p0 −124 ± 0.3909
−100
−110
−120
−130
−140
pull
Entries 82
Mean 92.62
Std Dev 52.5
pull1D
Entries 82
Mean −1.085
Std Dev 2.577

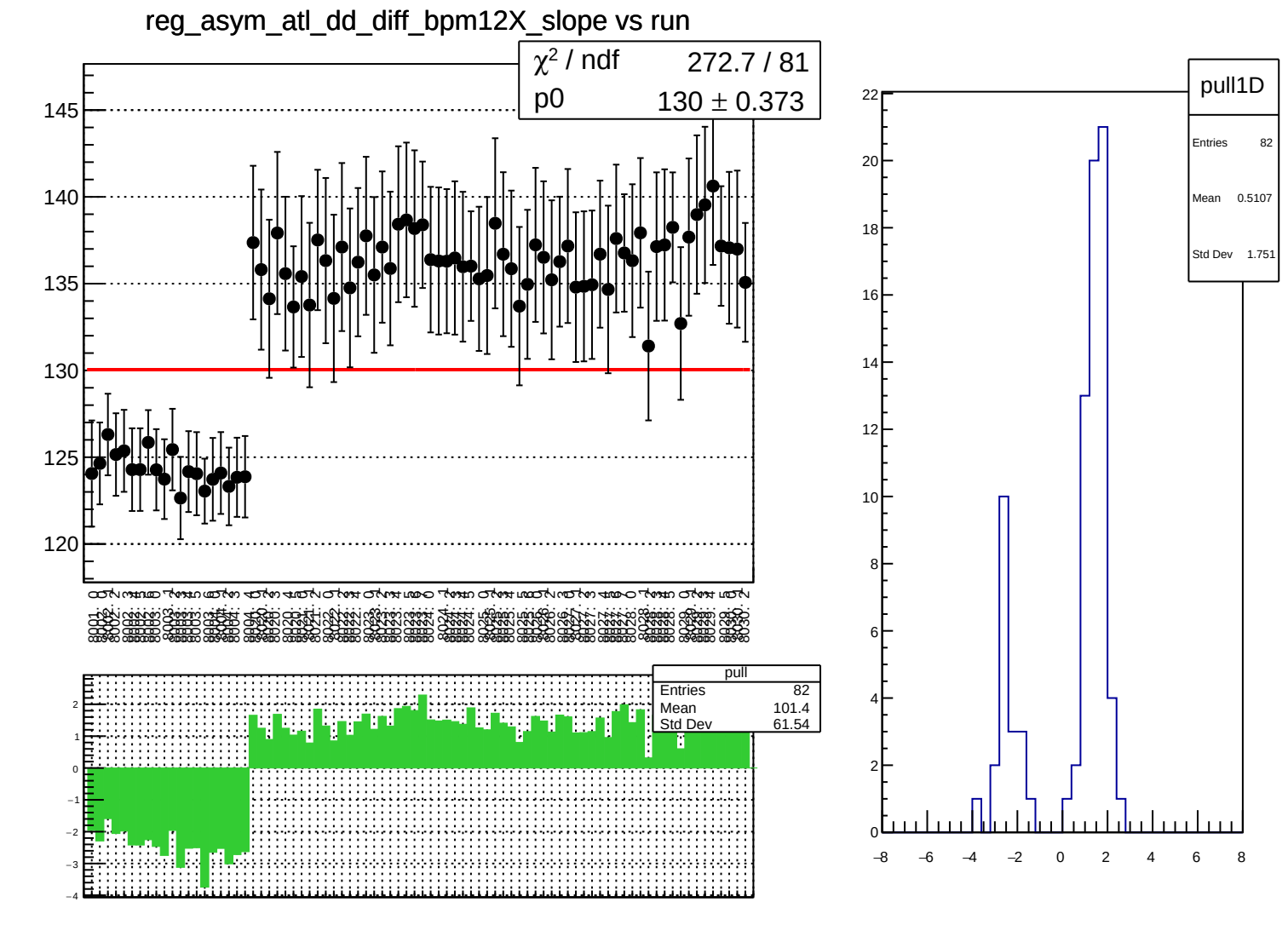

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 82.99 / 81
p0 232.2 ± 4.864
pull
Entries 82
Mean −56.02
Std Dev 88.11
pull1D
Entries 82
Mean −0.1737
Std Dev 0.9909

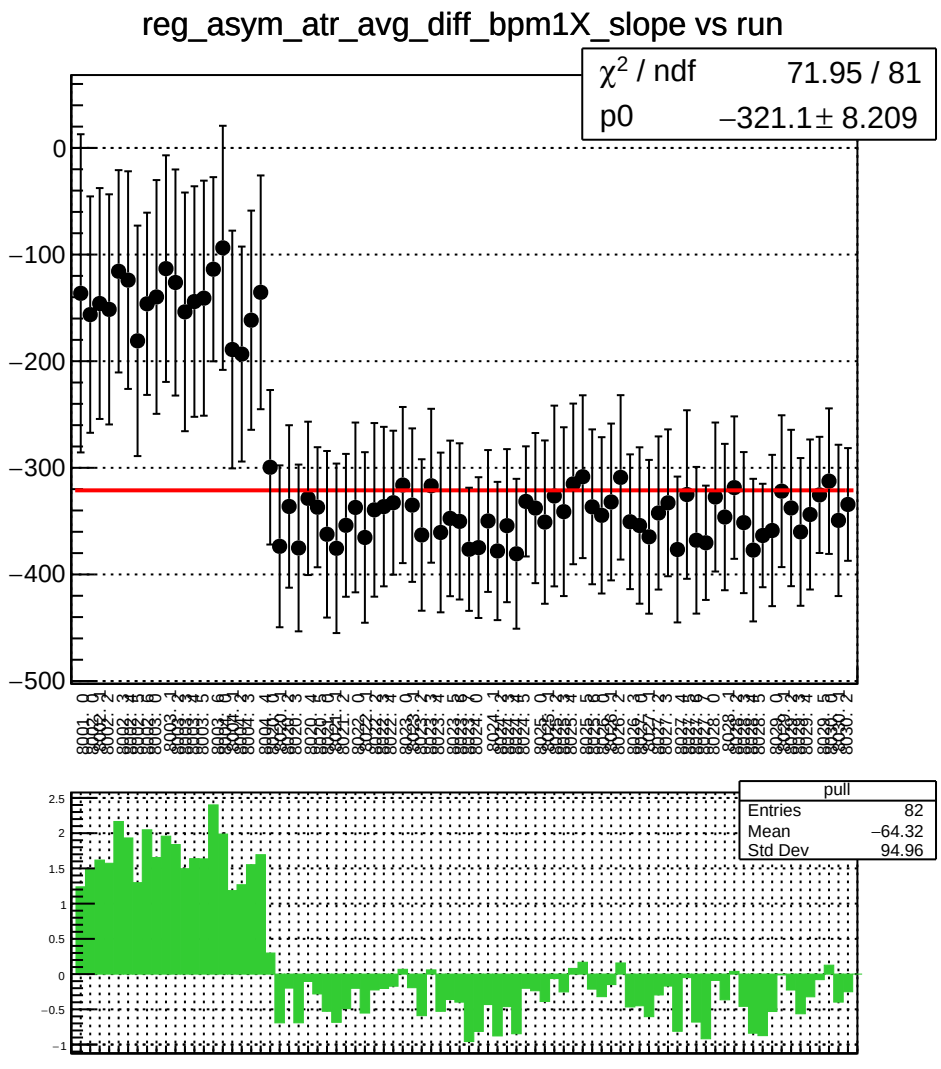

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.36 / 81
p0 −52.53 ± 7.673
150
100
50
0
−50
−100
−150
−200
pull
Entries 82
Mean −439.8
Std Dev 483.6
1
0.5
0
−0.5
−1

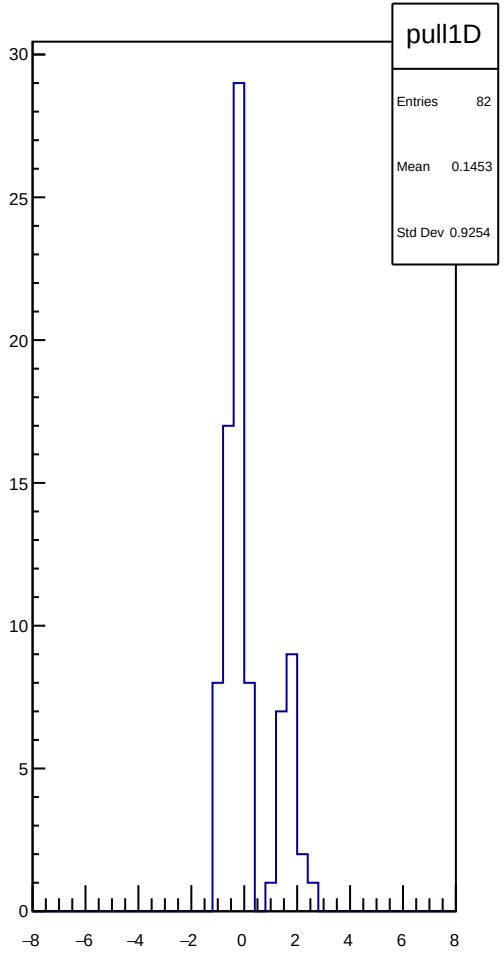

pull1D
Entries 82
Mean 0.007809
Std Dev 0.4035
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

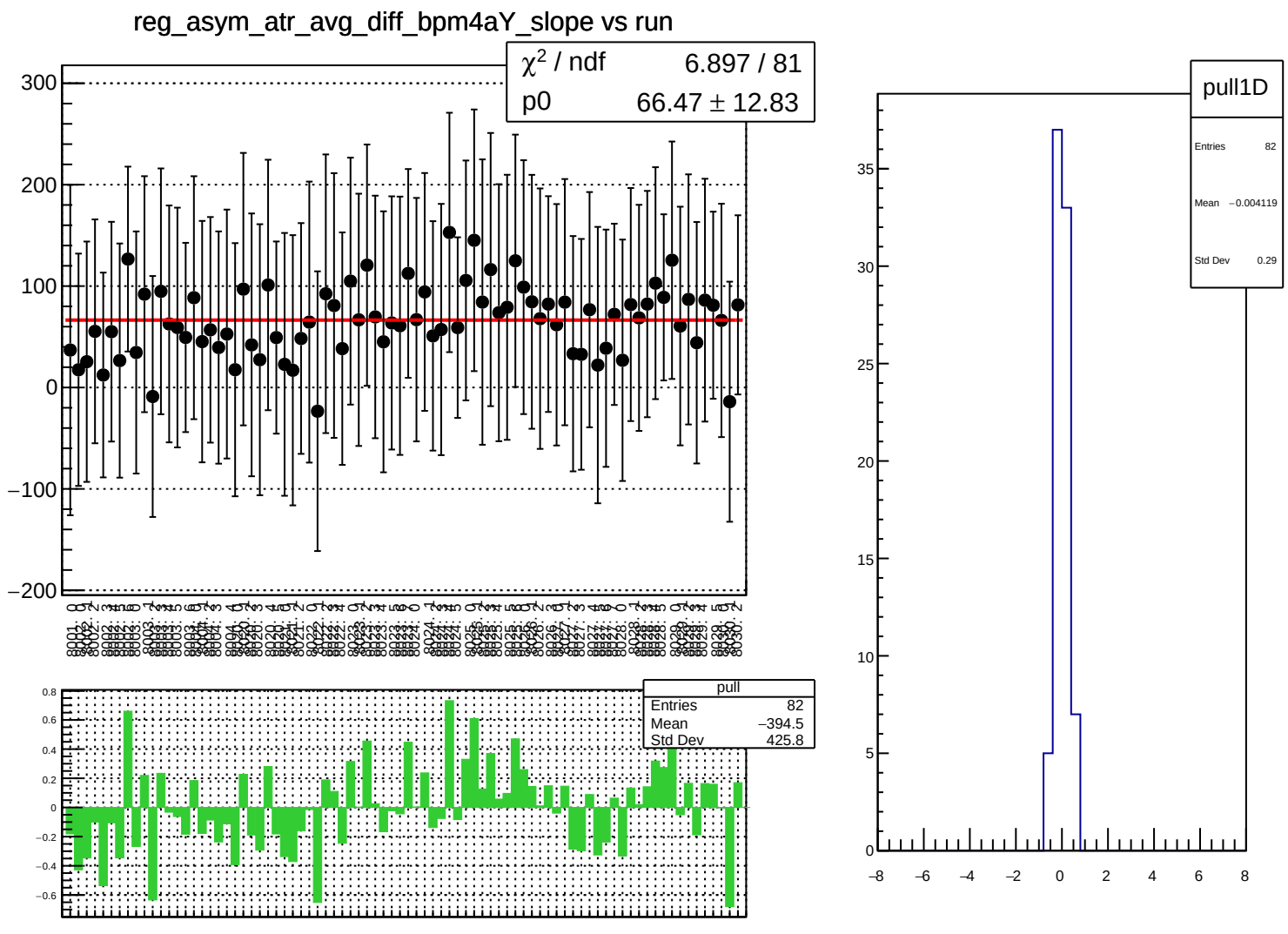

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.72 / 81
p0 −136.6 ± 5.084
pull
Entries 82
Mean −87.73
Std Dev 121.1
pull1D
Entries 82
Mean 0.09407
Std Dev 0.7489

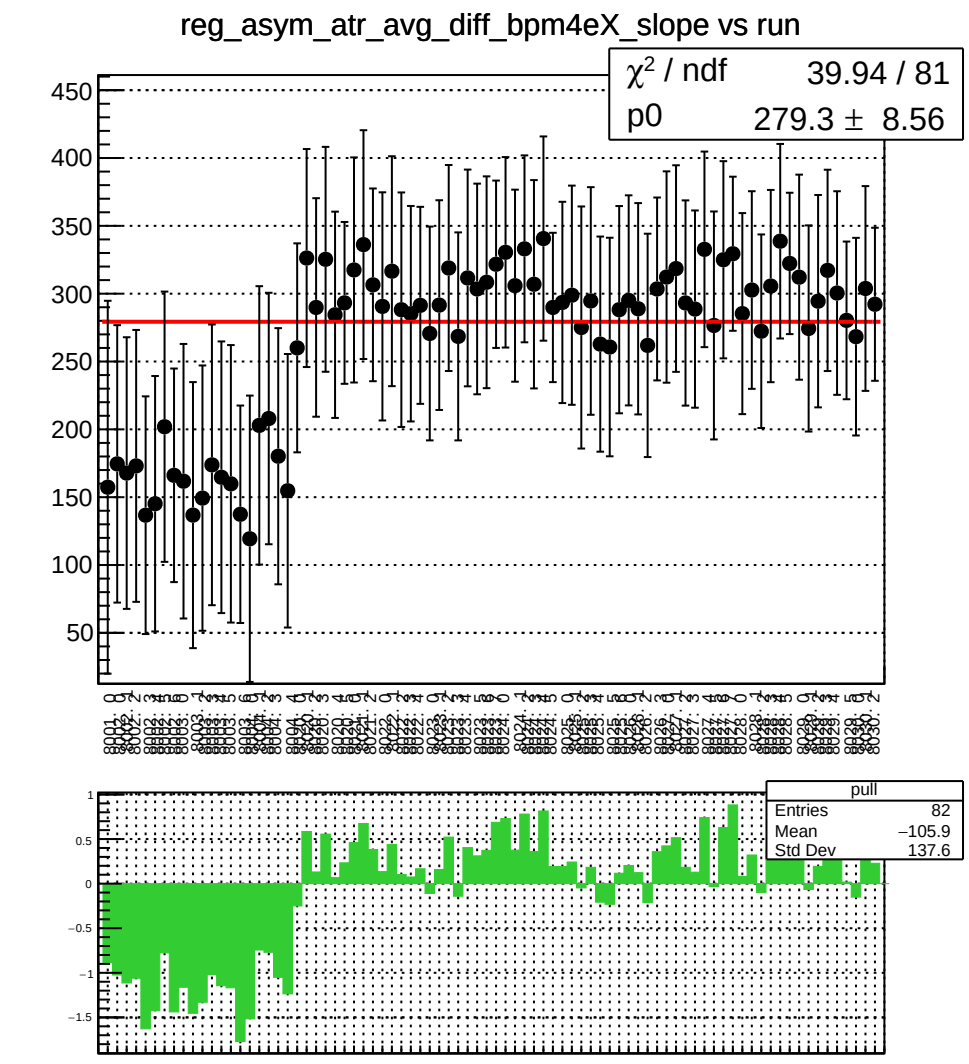

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.04 / 81
p0 −6.789 ± 8.244
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 82
Mean −286.9
Std Dev 331
1
0.5
0
−0.5
−1
pull1D
Entries 82
Mean −0.01071
Std Dev 0.3986
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

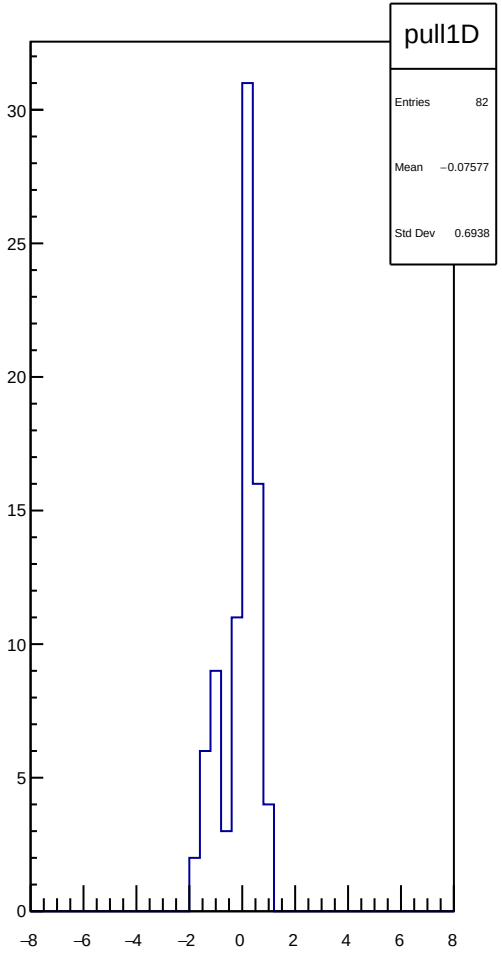

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 272.7 / 81
p0 130 ± 0.373
145
140
135
130
125
120
pull
Entries 82
Mean 101.4
Std Dev 61.54
2
1
0
−1
−2
−3
−4
pull1D
Entries 82
Mean 0.5107
Std Dev 1.751
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

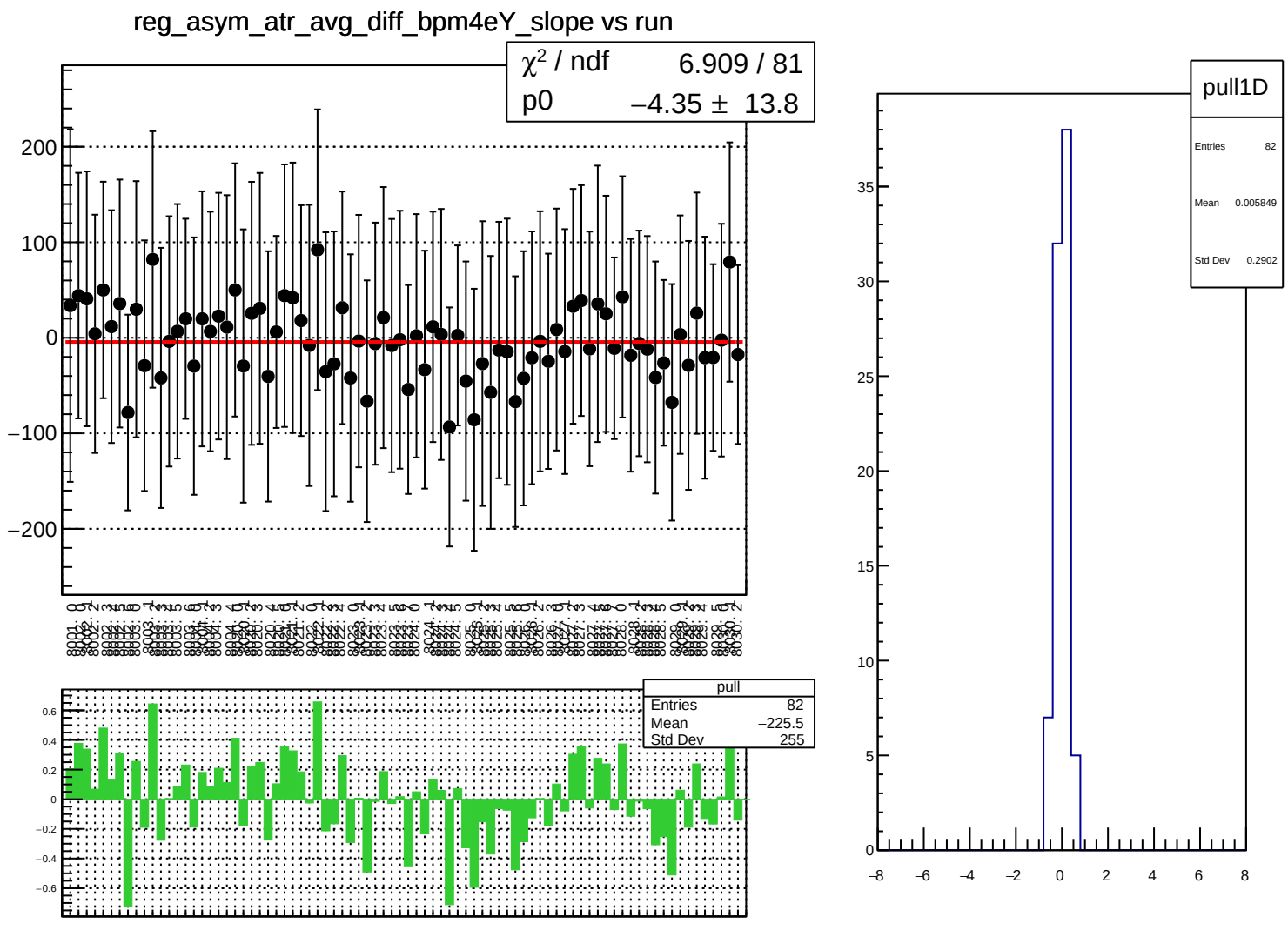

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 71.95 / 81
p0 −321.1 ± 8.209
pull
Entries 82
Mean −64.32
Std Dev 94.96

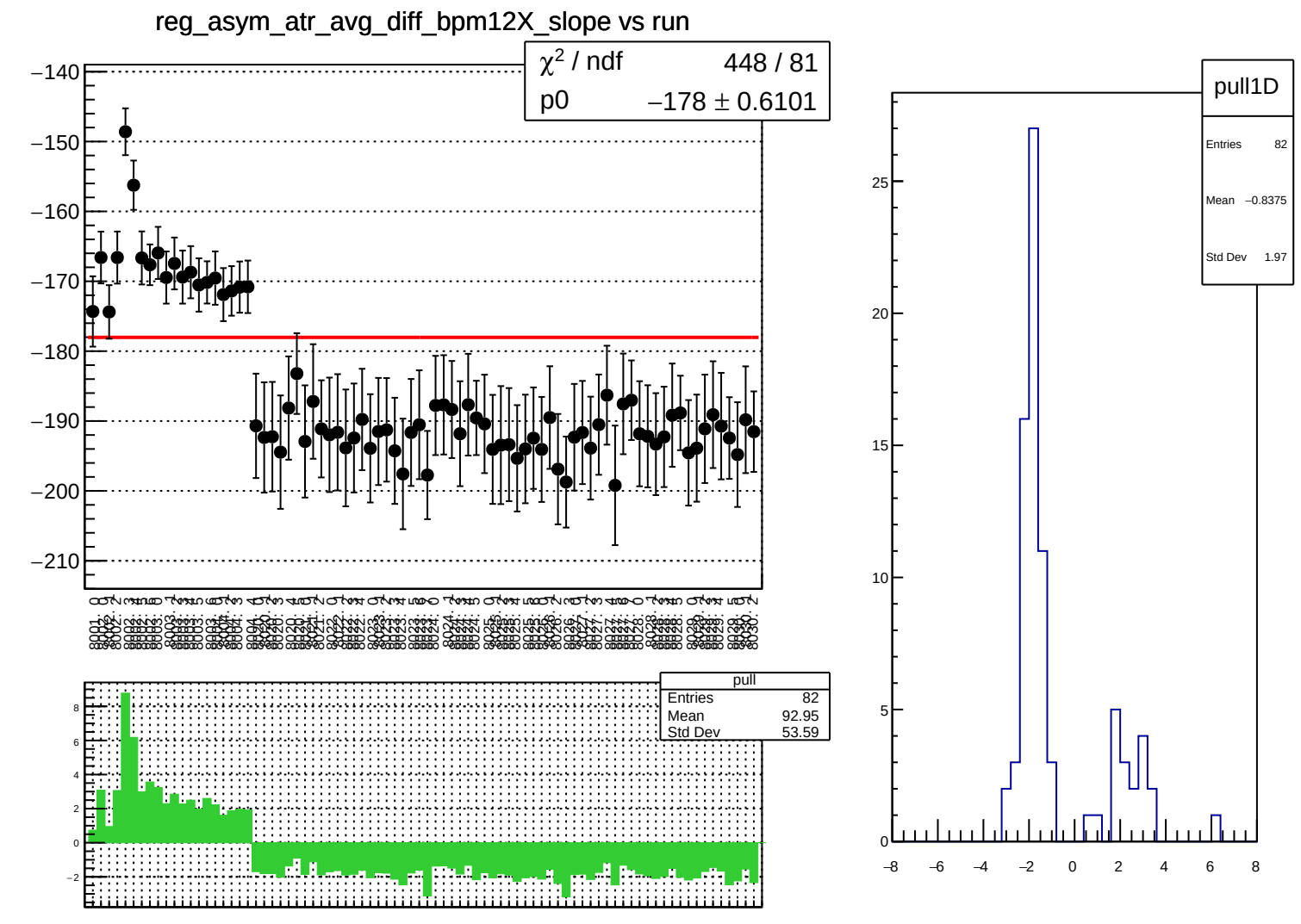

pull1D
Entries 82
Mean 0.1453
Std Dev 0.9254

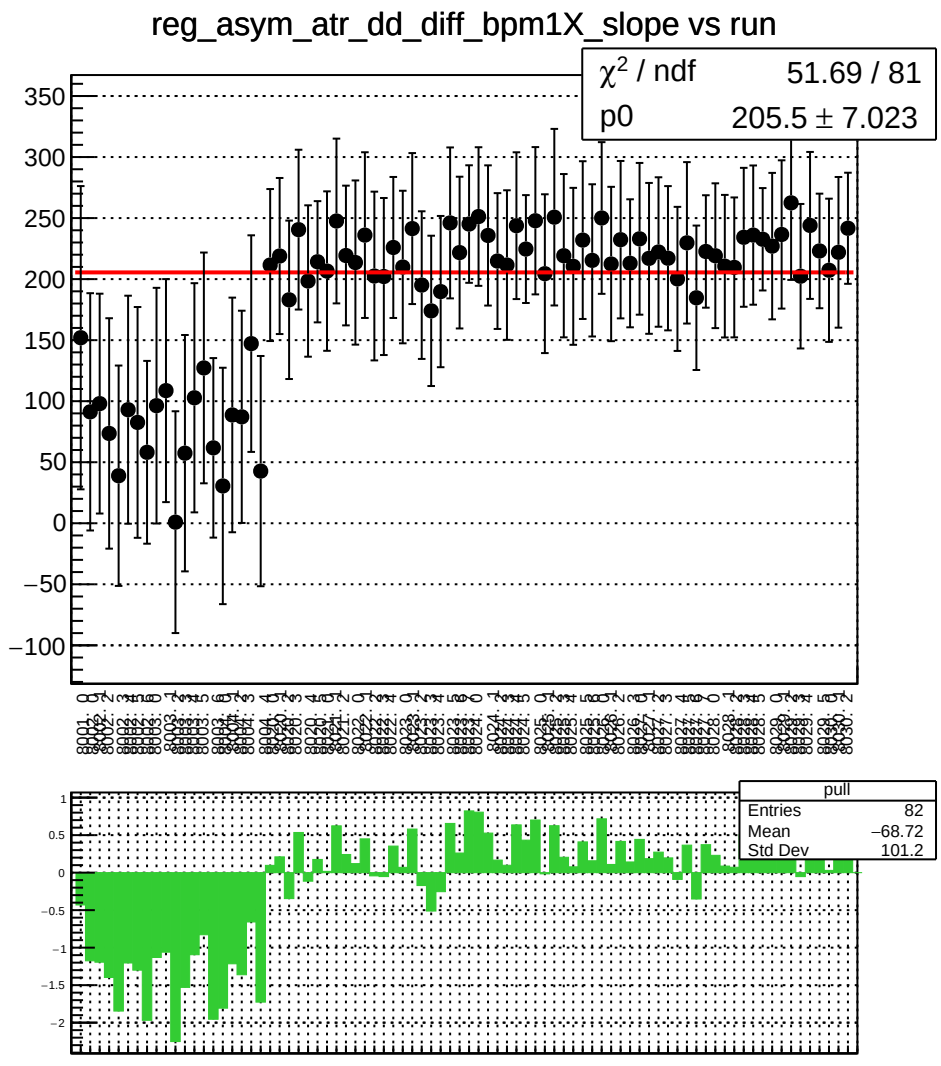

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.897 / 81
p0 66.47 ± 12.83
pull
Entries 82
Mean −394.5
Std Dev 425.8
pull1D
Entries 82
Mean −0.004119
Std Dev 0.29

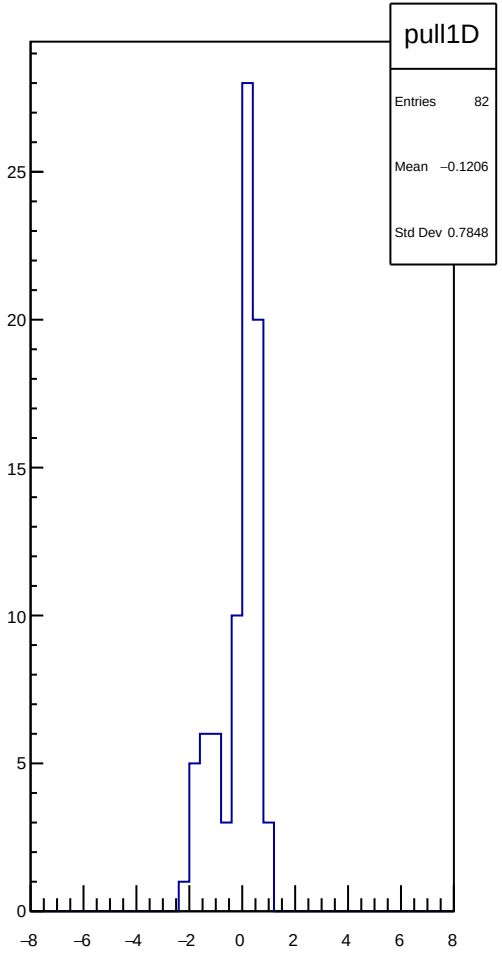

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 39.94 / 81
p0 279.3 ± 8.56
pull
Entries 82
Mean −105.9
Std Dev 137.6

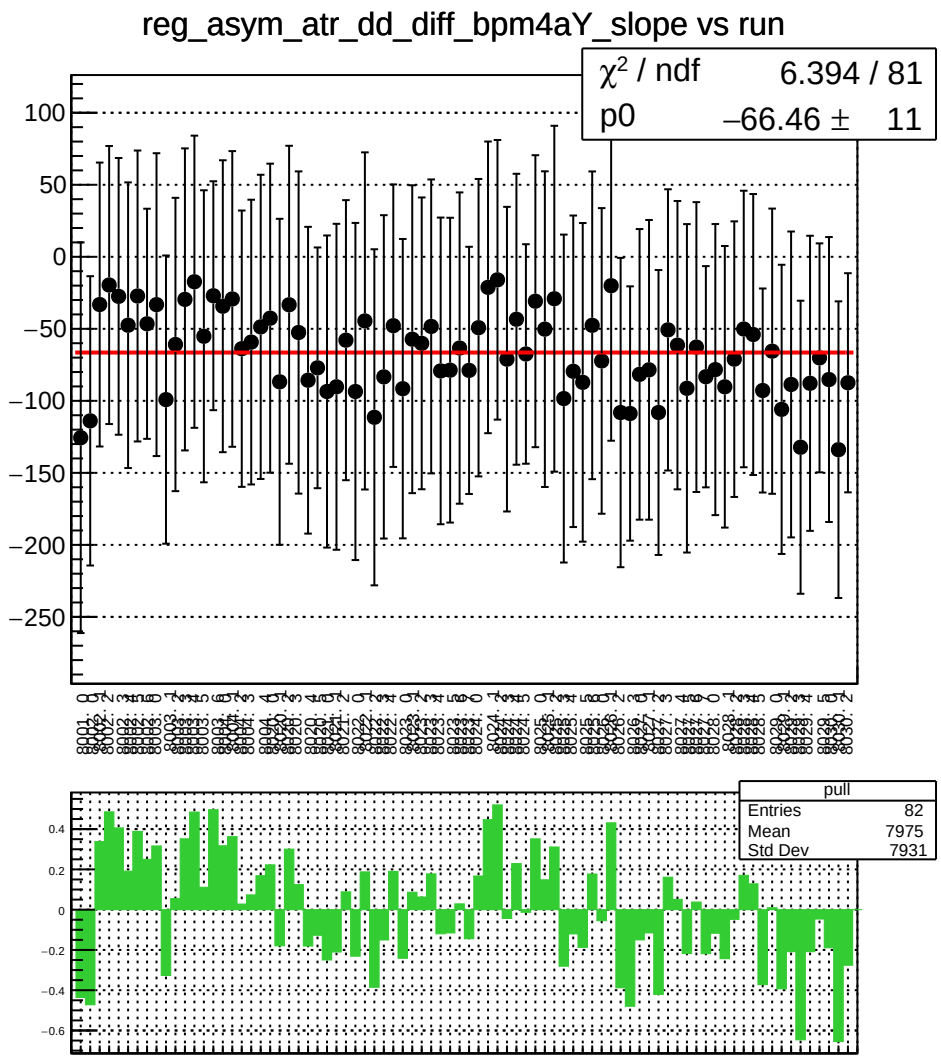

pull1D
Entries 82
Mean −0.07577
Std Dev 0.6938

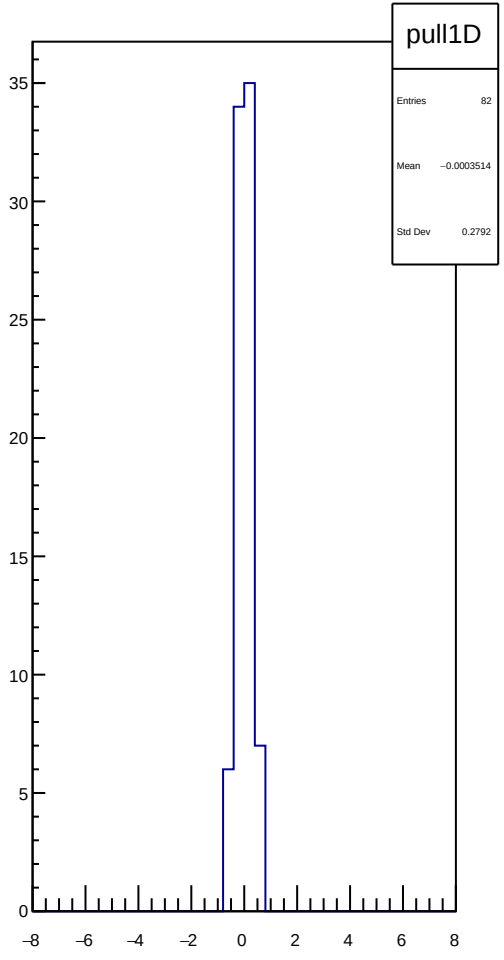

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.909 / 81
p0 −4.35 ± 13.8
200
100
0
−100
−200
pull
Entries 82
Mean −225.5
Std Dev 255
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean 0.005849
Std Dev 0.2902
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

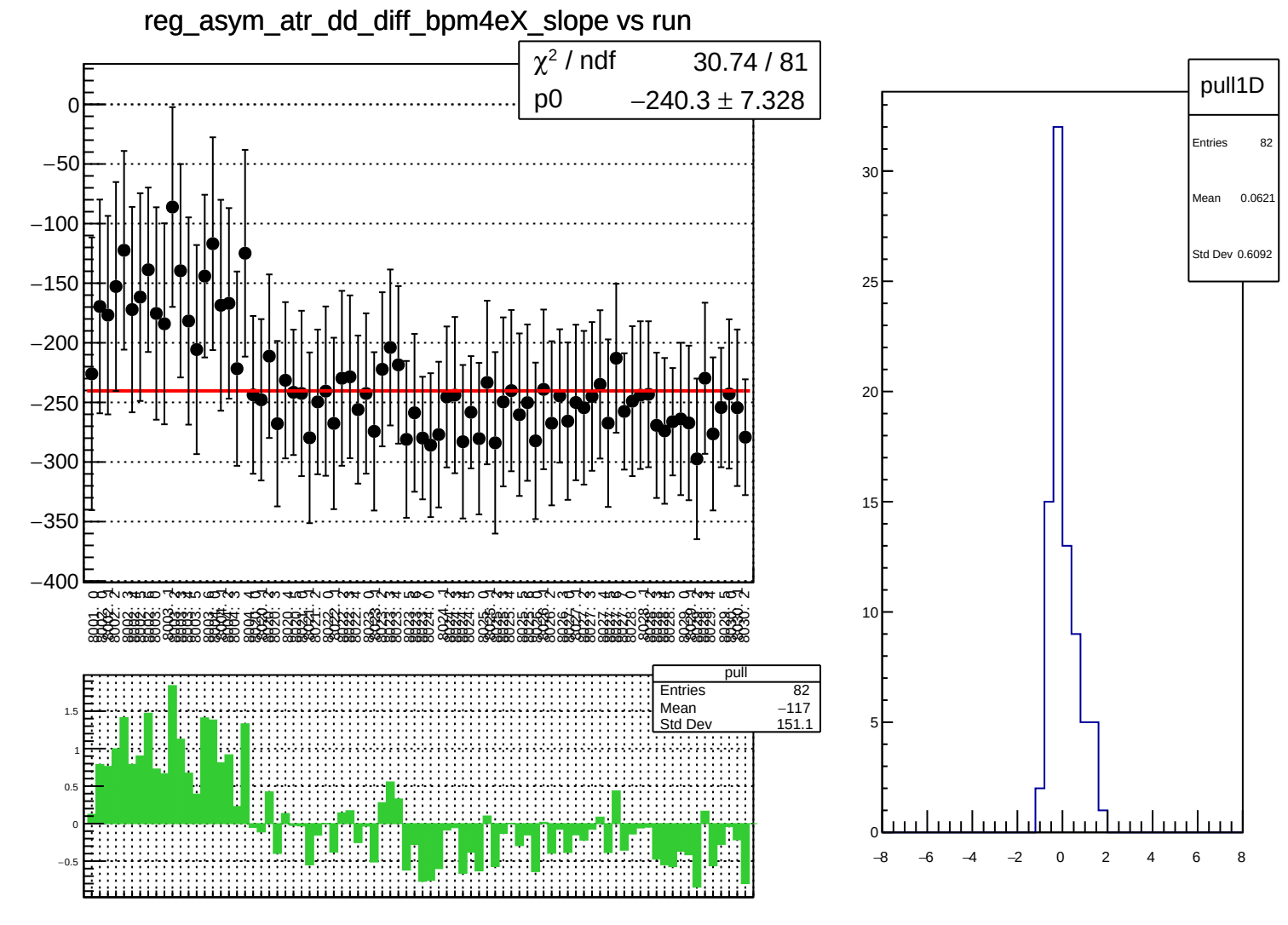

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 448 / 81
p0 −178 ± 0.6101
pull
Entries 82
Mean 92.95
Std Dev 53.59
pull1D
Entries 82
Mean −0.8375
Std Dev 1.97

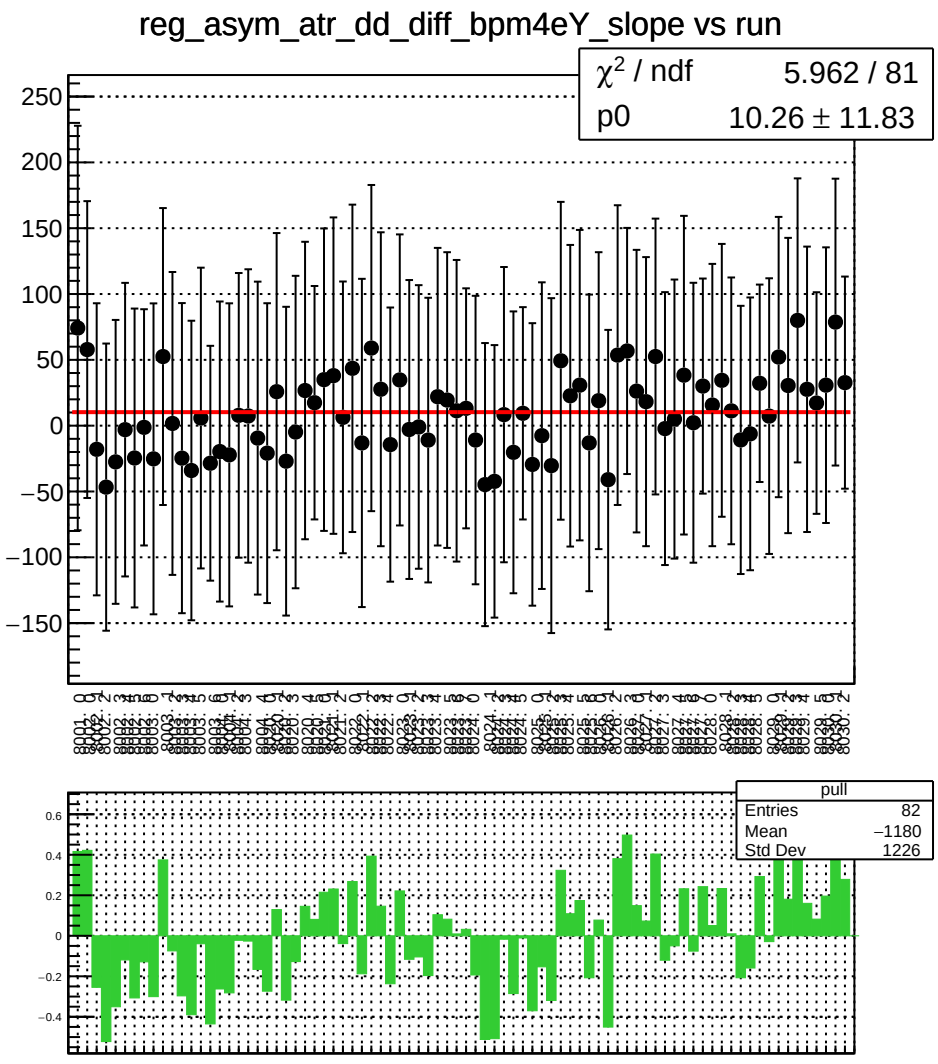

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 51.69 / 81
p0 205.5 ± 7.023
pull
Entries 82
Mean −68.72
Std Dev 101.2

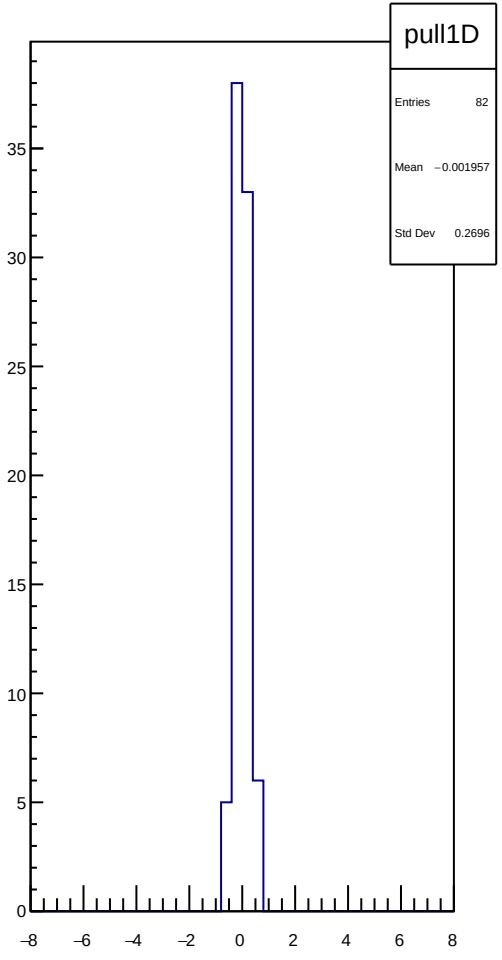

pull1D
Entries 82
Mean −0.1206
Std Dev 0.7848

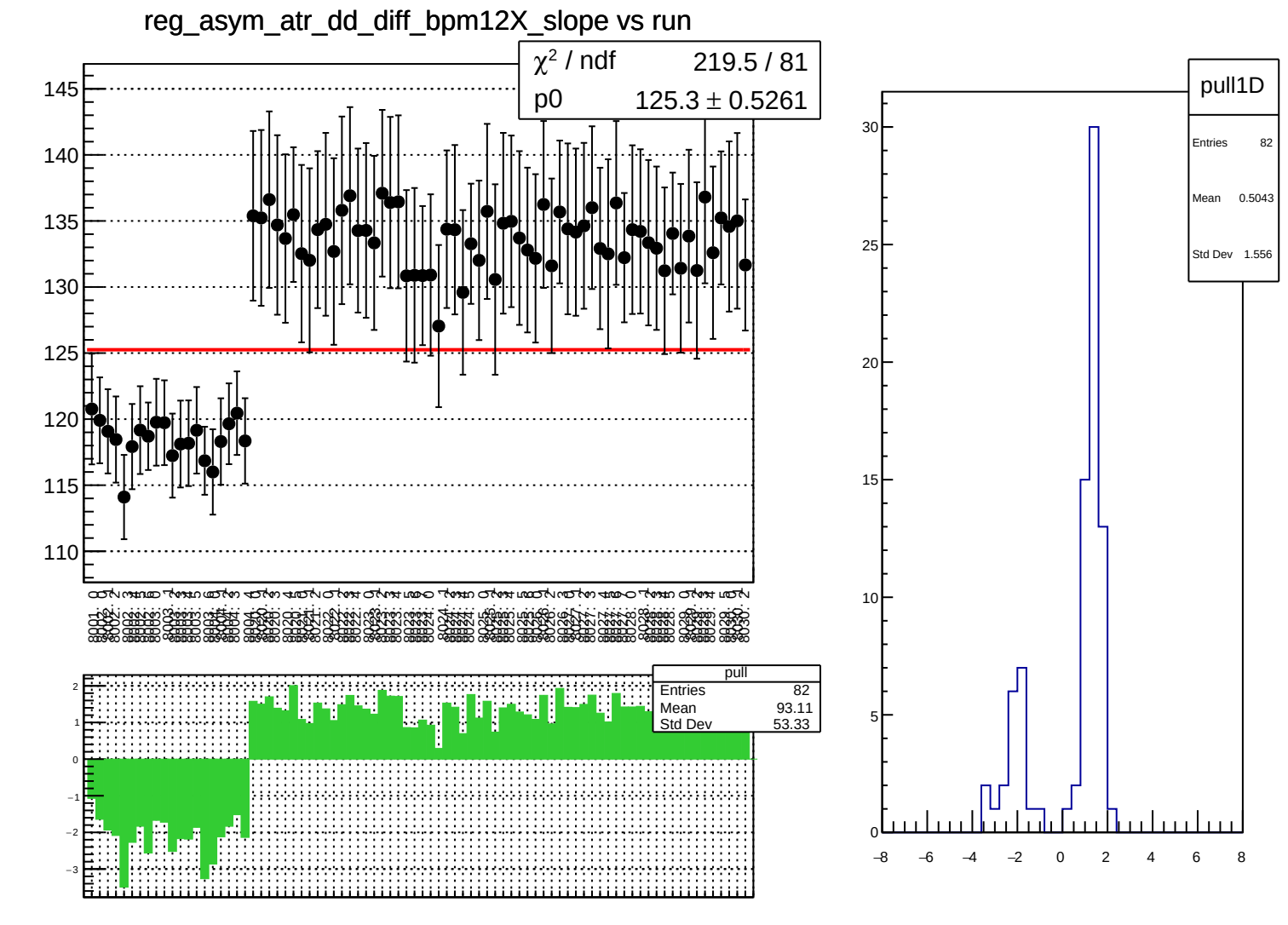

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.394 / 81
p0 −66.46 ± 11
pull
Entries 82
Mean 7975
Std Dev 7931

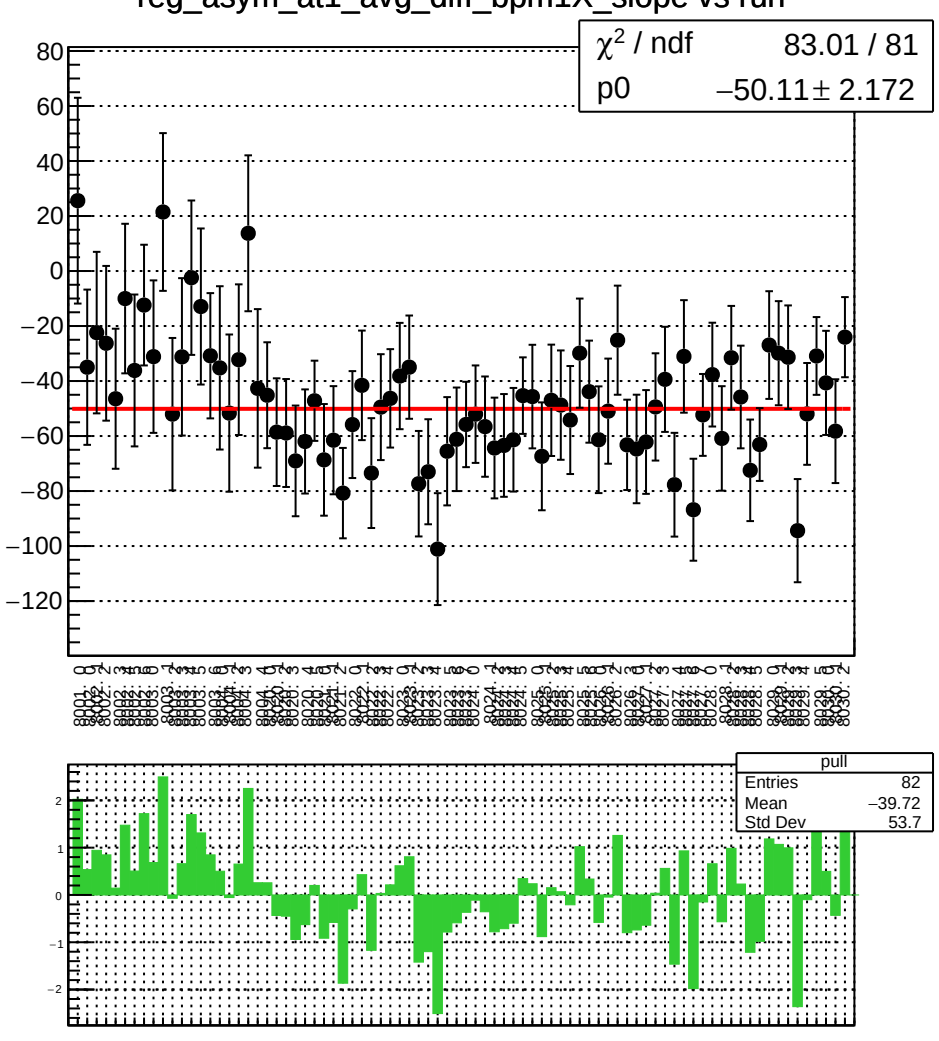

pull1D
Entries 82
Mean −0.0003514
Std Dev 0.2792

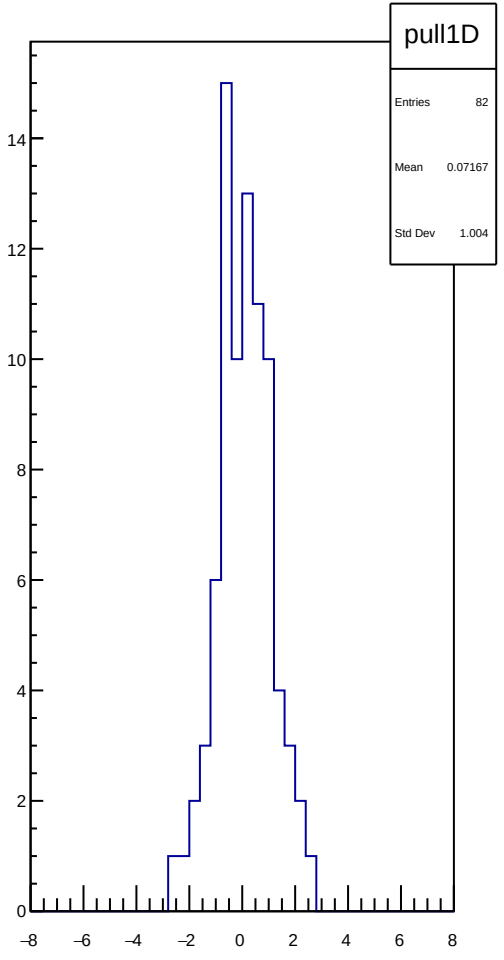

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.74 / 81
p0 −240.3 ± 7.328
pull
Entries 82
Mean −117
Std Dev 151.1
pull1D
Entries 82
Mean 0.0621
Std Dev 0.6092

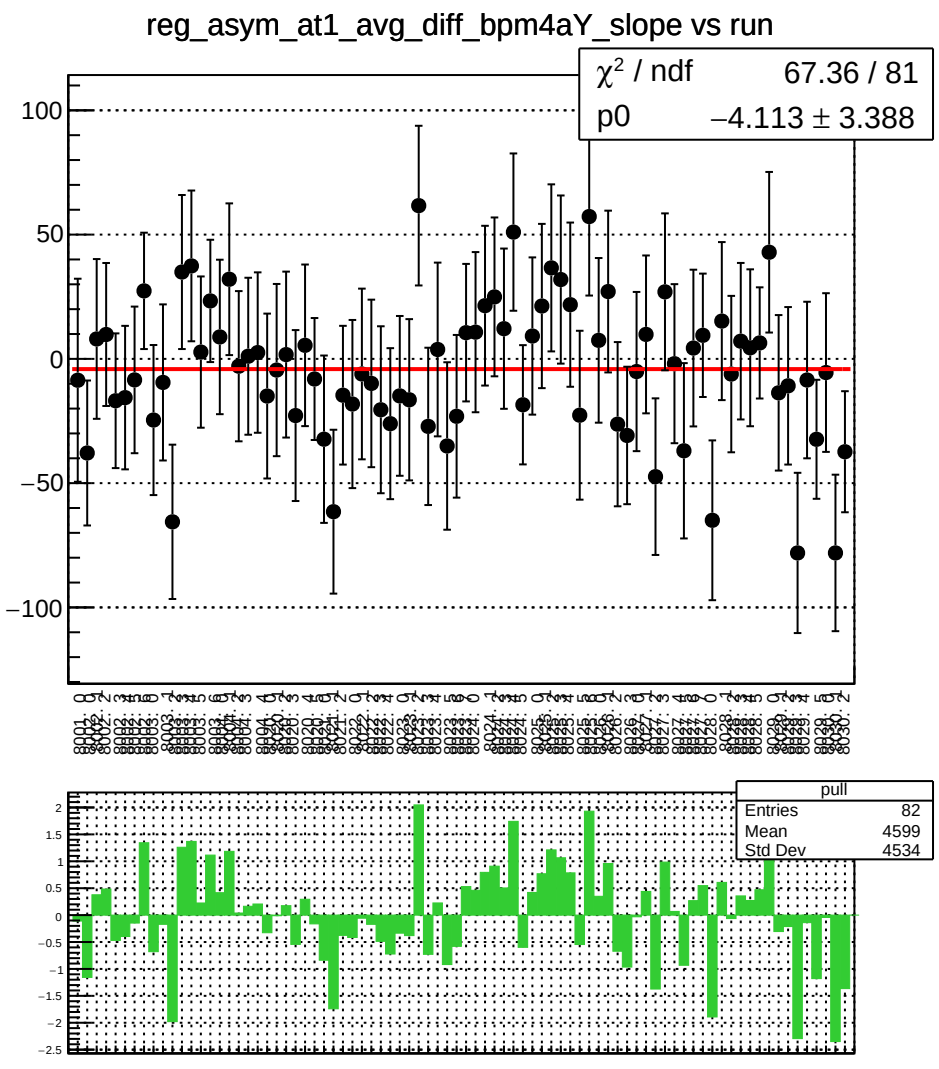

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.962 / 81
p0 10.26 ± 11.83
pull
Entries 82
Mean −1180
Std Dev 1226

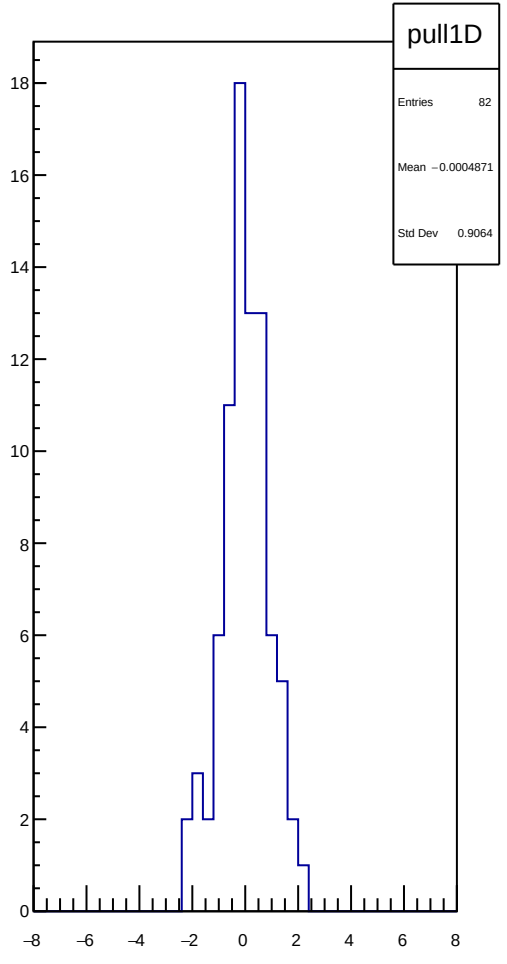

pull1D
Entries 82
Mean −0.001957
Std Dev 0.2696

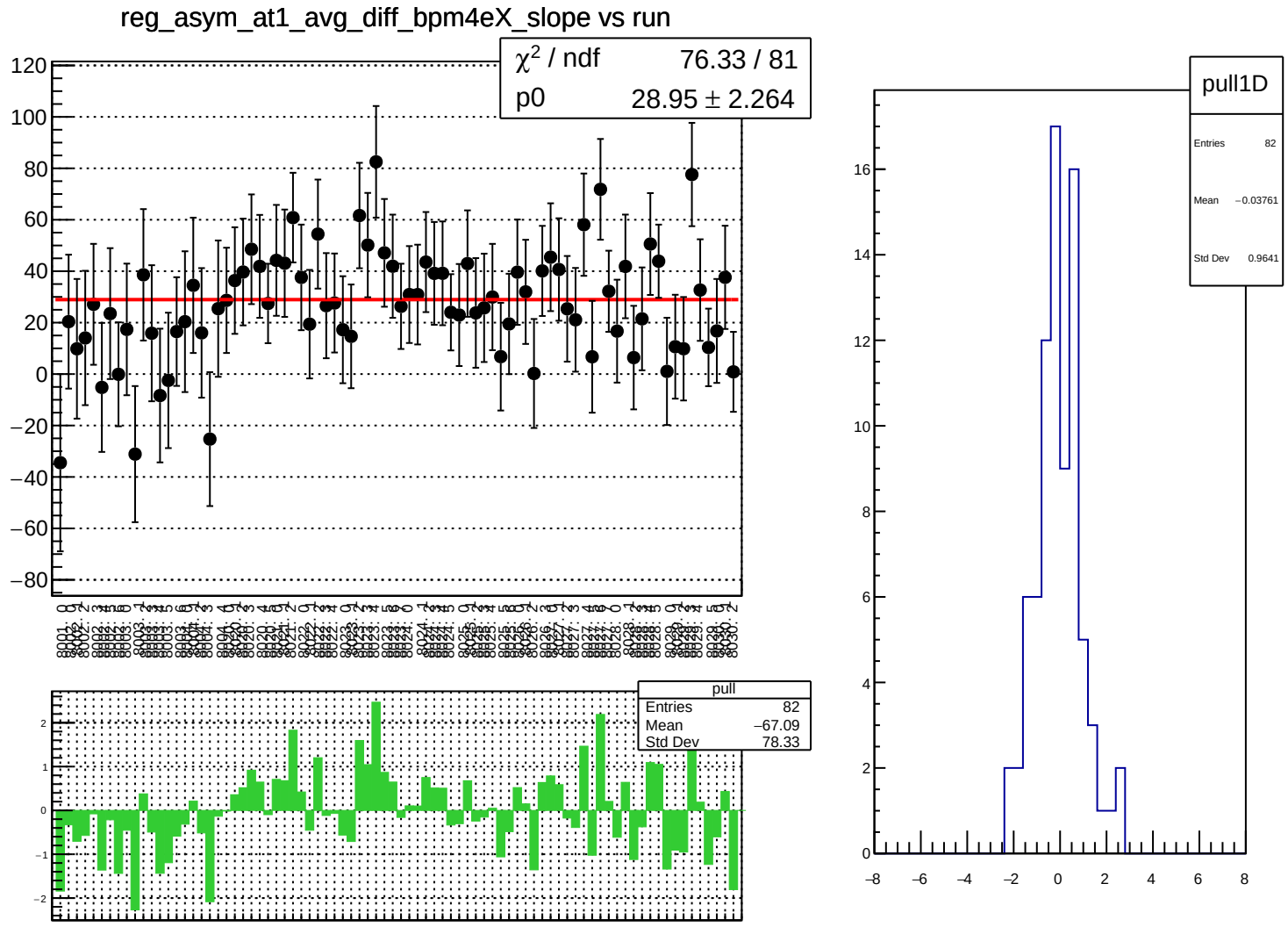

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 219.5 / 81
p0 125.3 ± 0.5261
pull
Entries 82
Mean 93.11
Std Dev 53.33
pull1D
Entries 82
Mean 0.5043
Std Dev 1.556

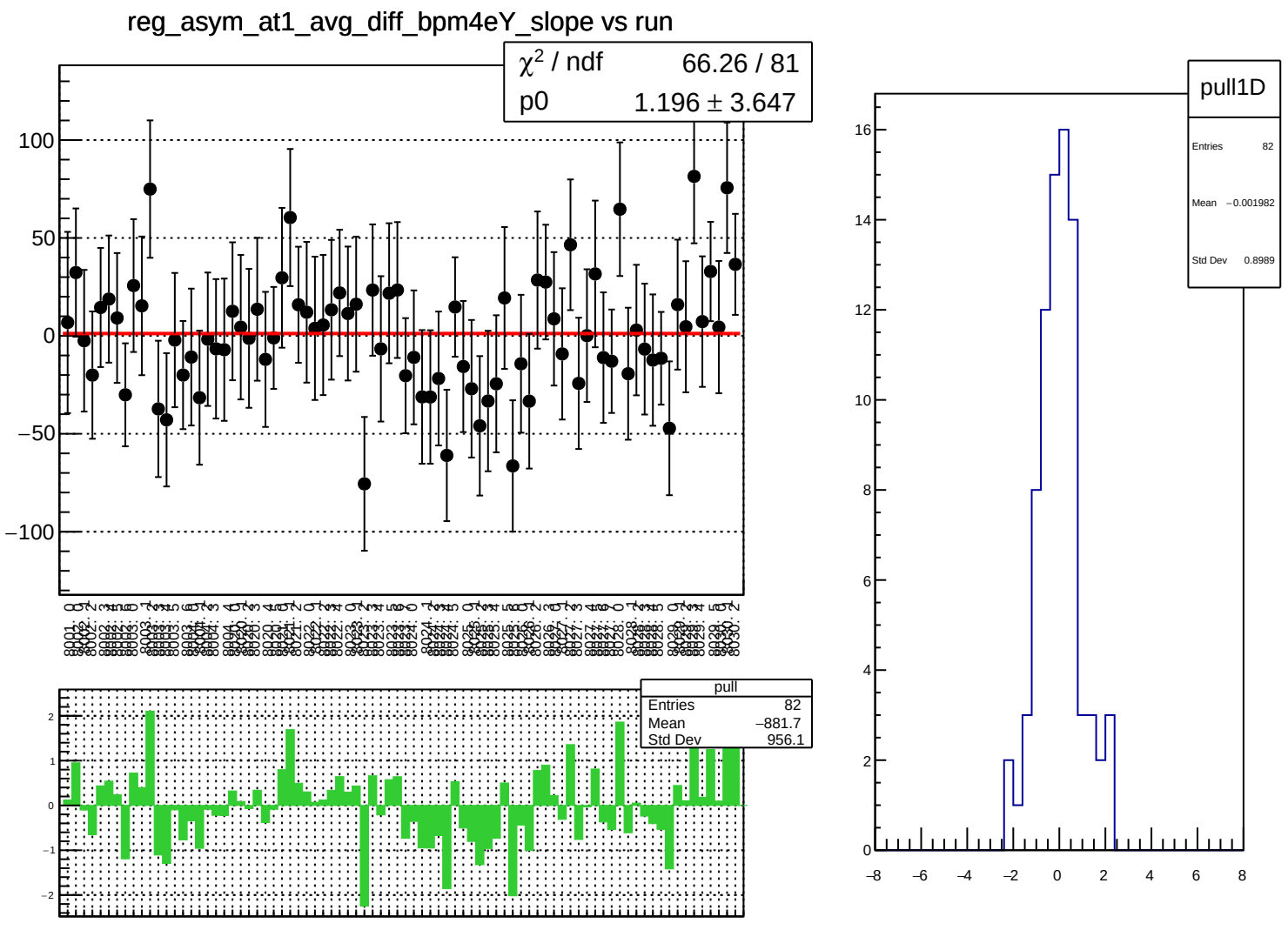

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 83.01 / 81
p0 −50.11± 2.172
pull
Entries 82
Mean −39.72
Std Dev 53.7

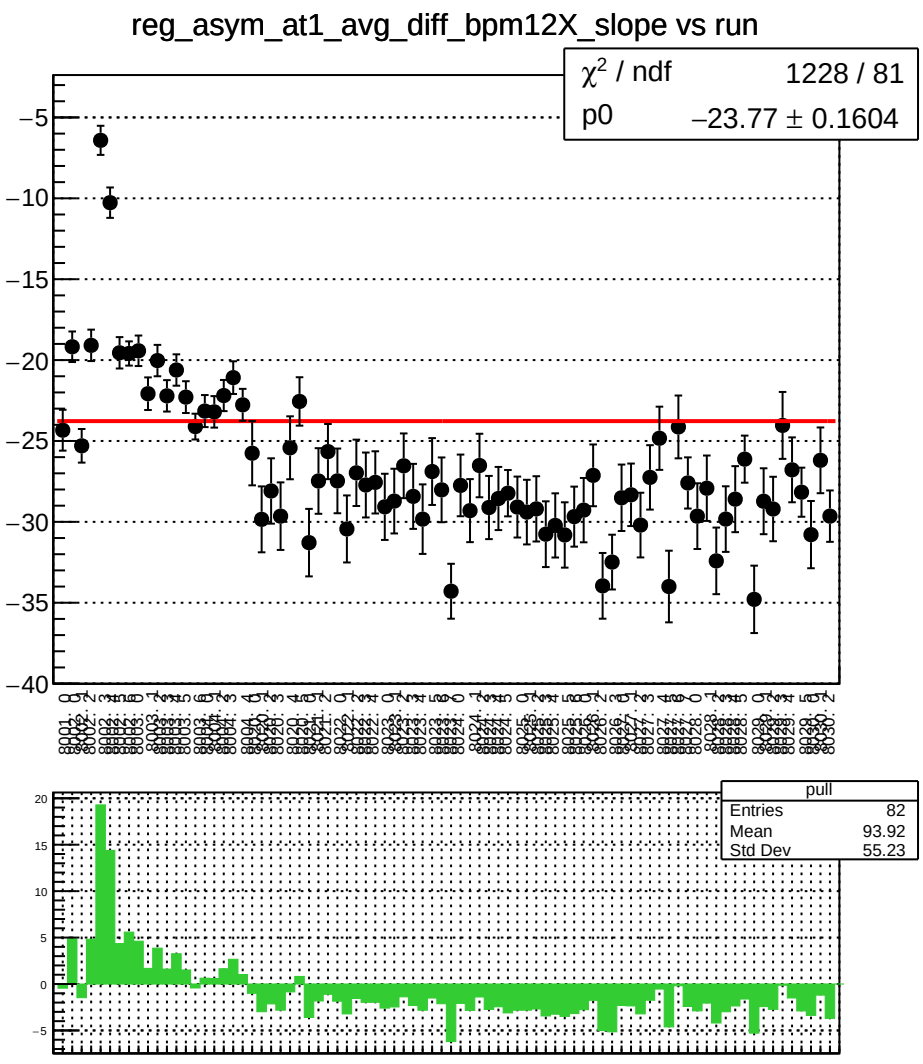

pull1D
Entries 82
Mean 0.07167
Std Dev 1.004

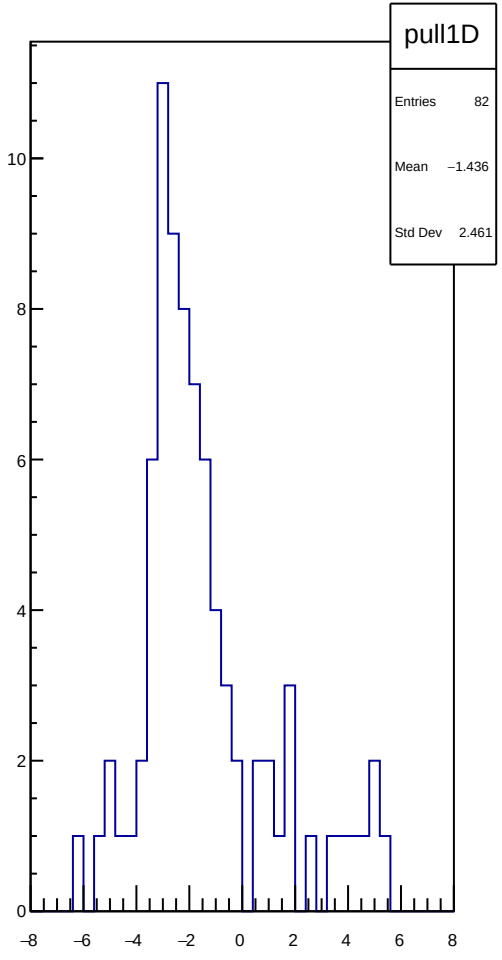

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 67.36 / 81
p0 −4.113 ± 3.388
100
50
0
−50
−100
pull
Entries 82
Mean 4599
Std Dev 4534
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

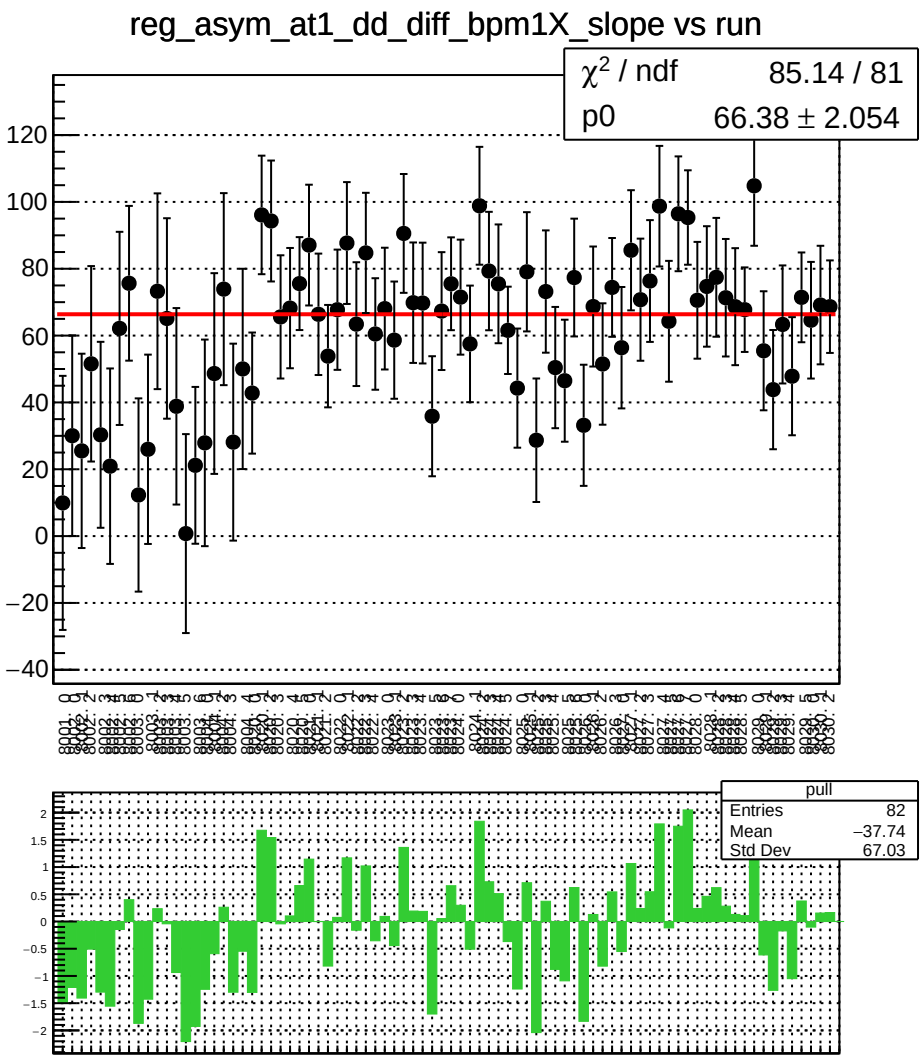

pull1D
Entries 82
Mean −0.0004871
Std Dev 0.9064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

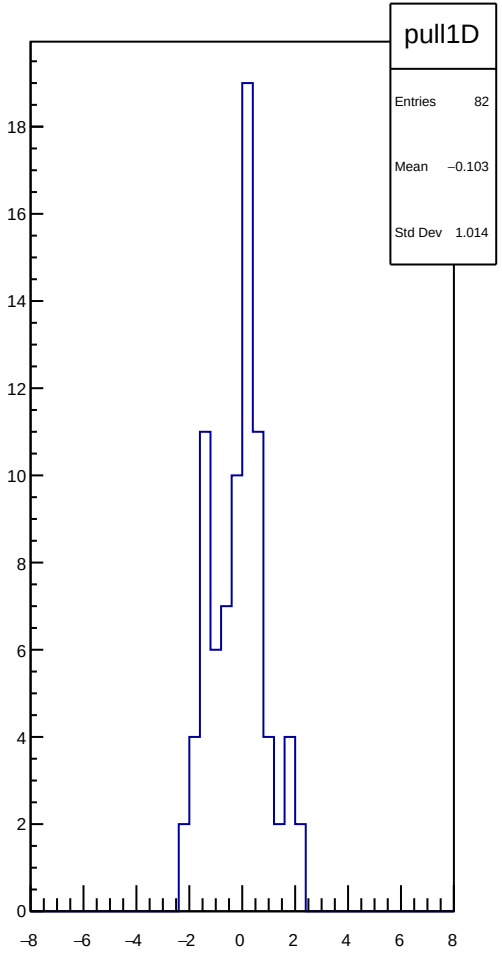

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 76.33 / 81
p0 28.95 ± 2.264
pull
Entries 82
Mean −67.09
Std Dev 78.33
pull1D
Entries 82
Mean −0.03761
Std Dev 0.9641

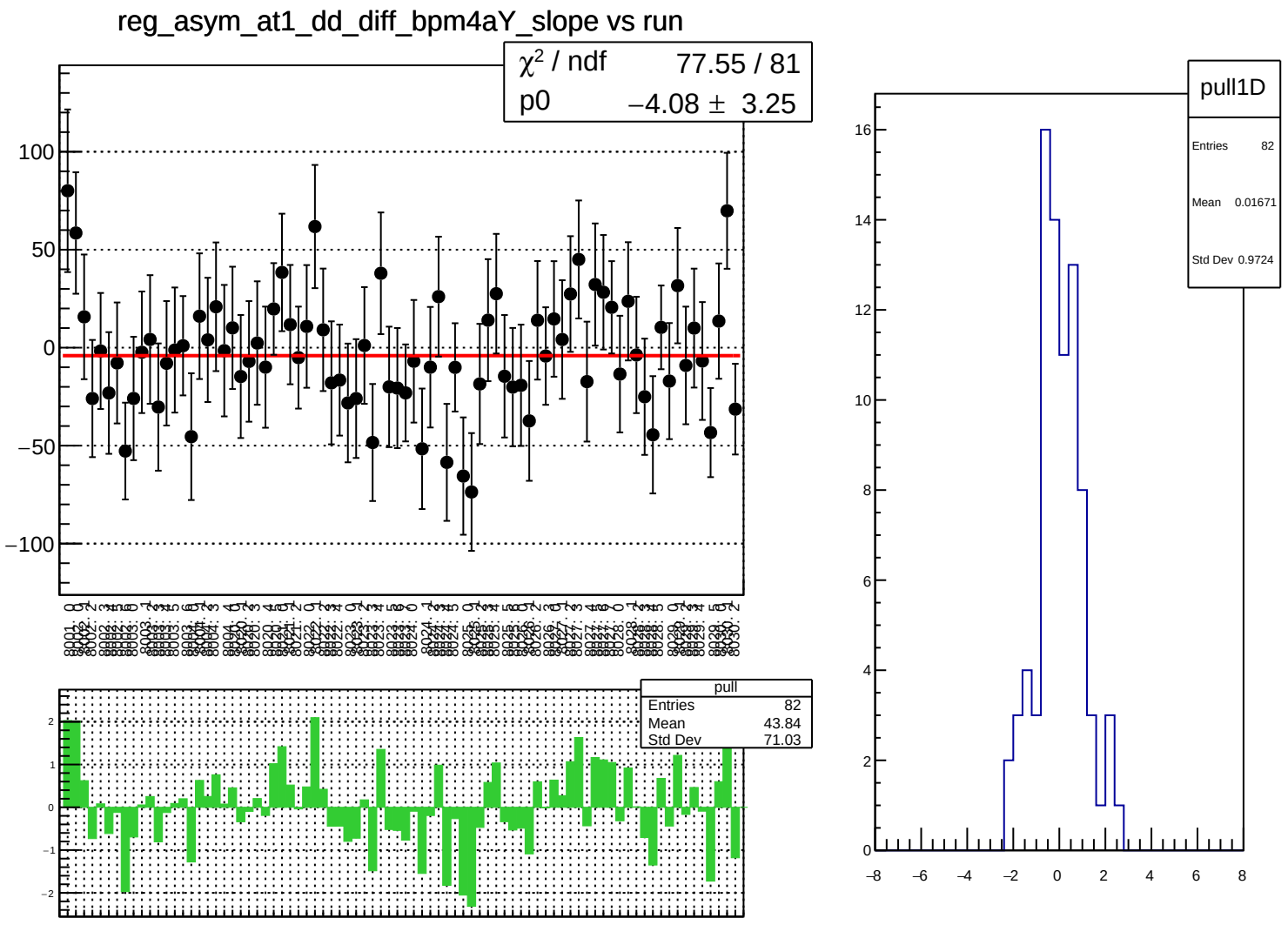

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.26 / 81
p0 1.196 ± 3.647
pull
Entries 82
Mean −881.7
Std Dev 956.1
pull1D
Entries 82
Mean −0.001982
Std Dev 0.8989

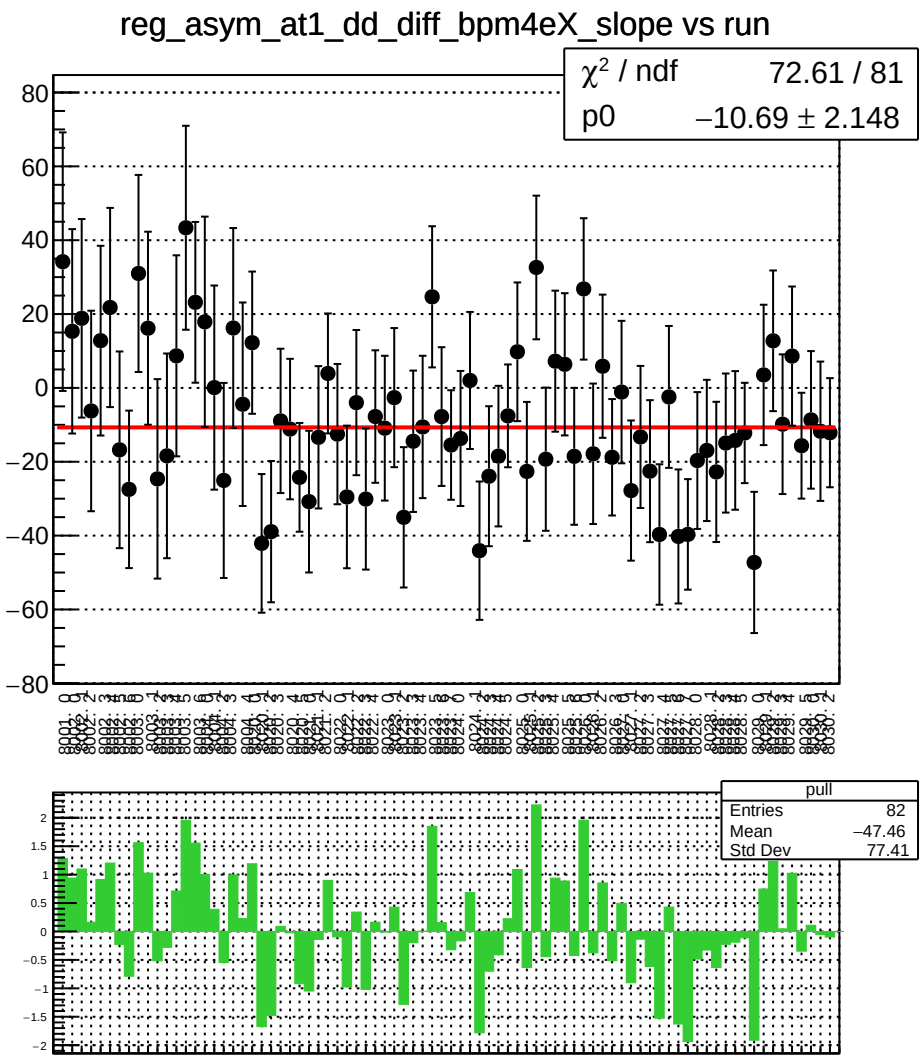

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 1228 / 81
p0 −23.77 ± 0.1604
pull
Entries 82
Mean 93.92
Std Dev 55.23

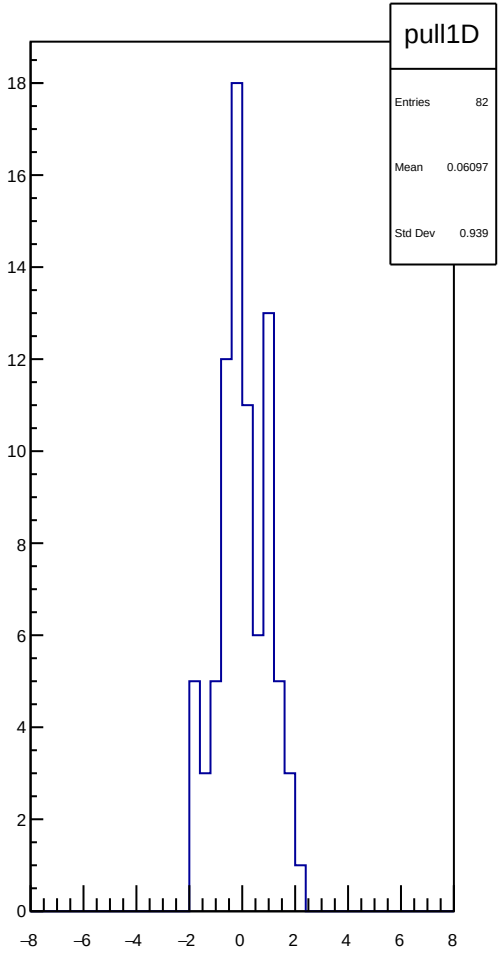

pull1D
Entries 82
Mean −1.436
Std Dev 2.461

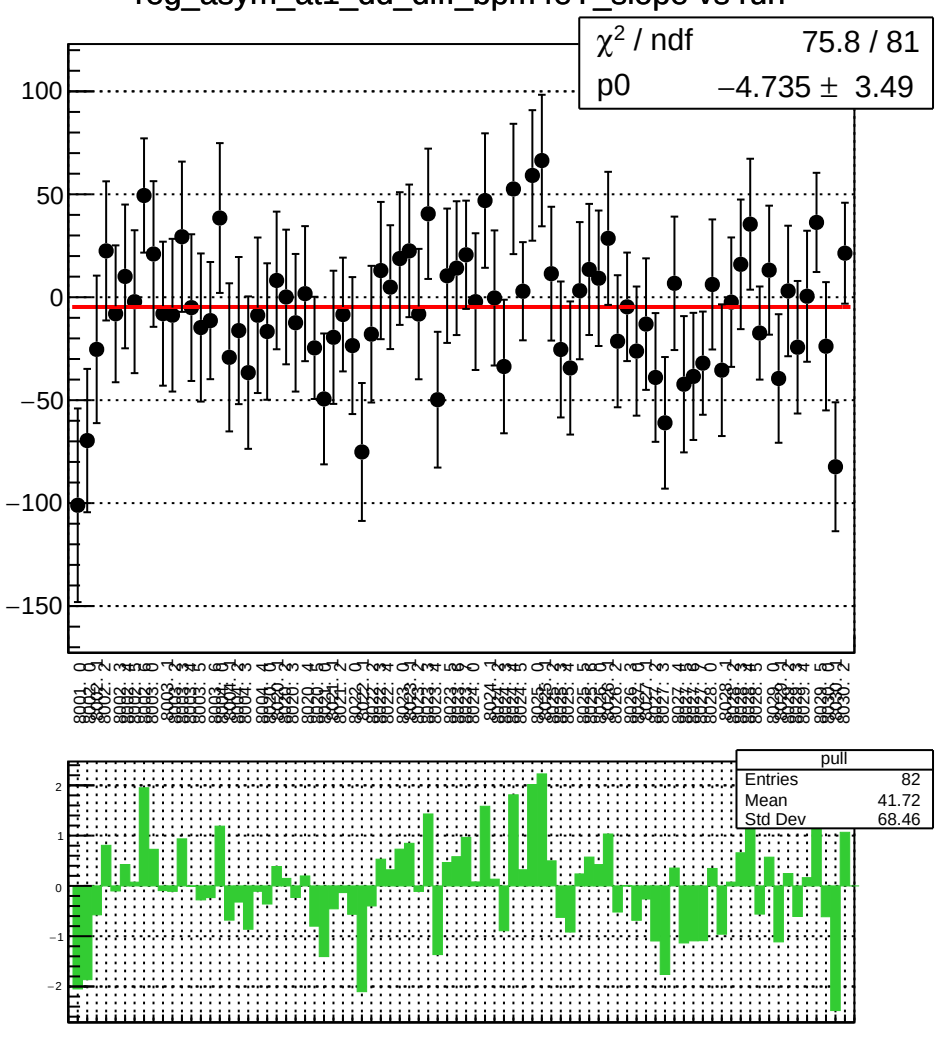

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 85.14 / 81
p0 66.38 ± 2.054
pull
Entries 82
Mean −37.74
Std Dev 67.03

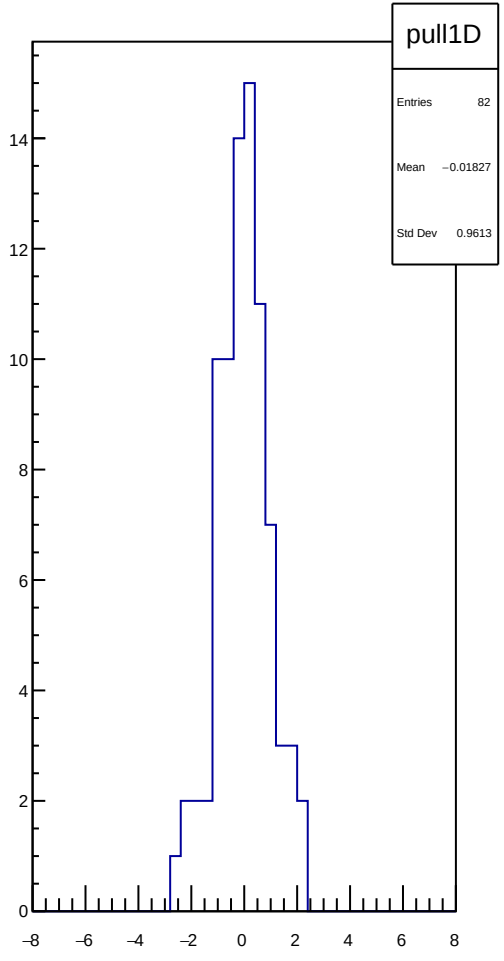

pull1D
Entries 82
Mean −0.103
Std Dev 1.014

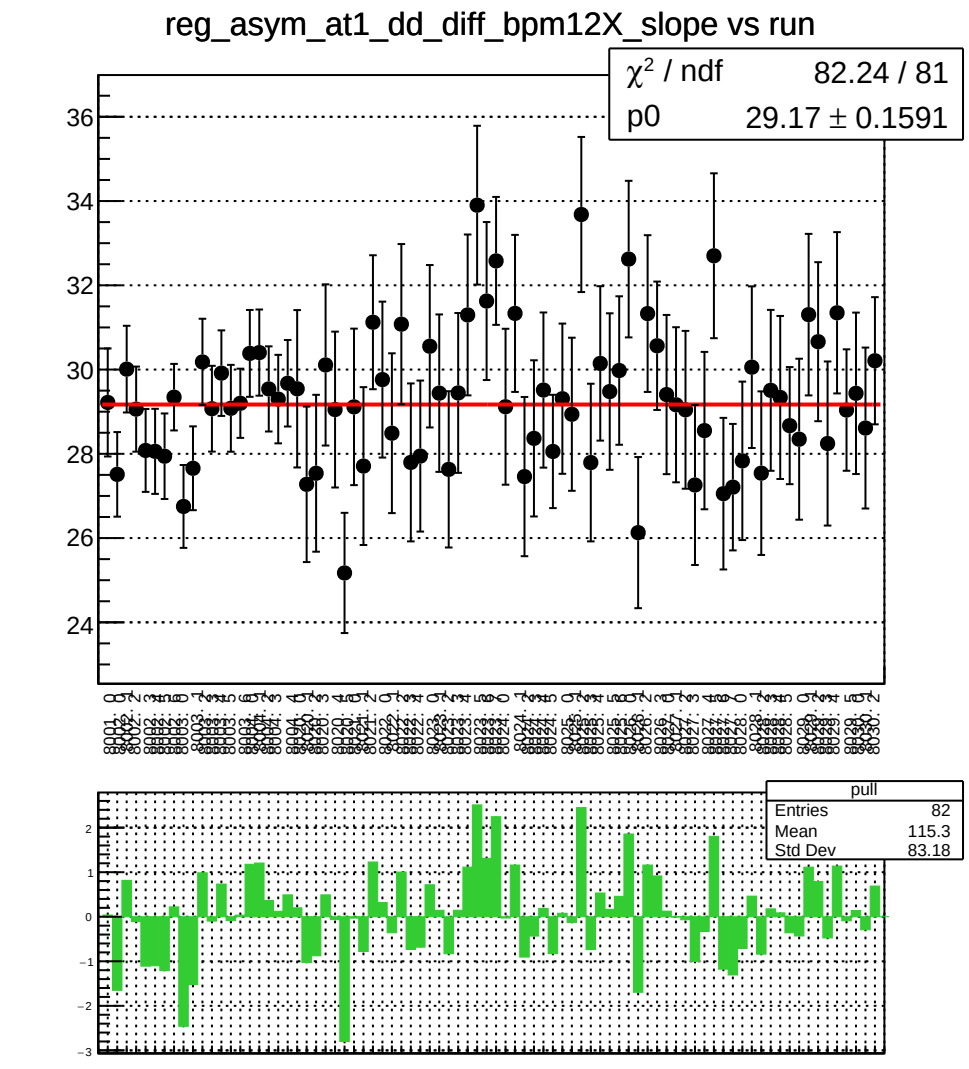

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.55 / 81
p0 −4.08 ± 3.25
pull
Entries 82
Mean 43.84
Std Dev 71.03
pull1D
Entries 82
Mean 0.01671
Std Dev 0.9724

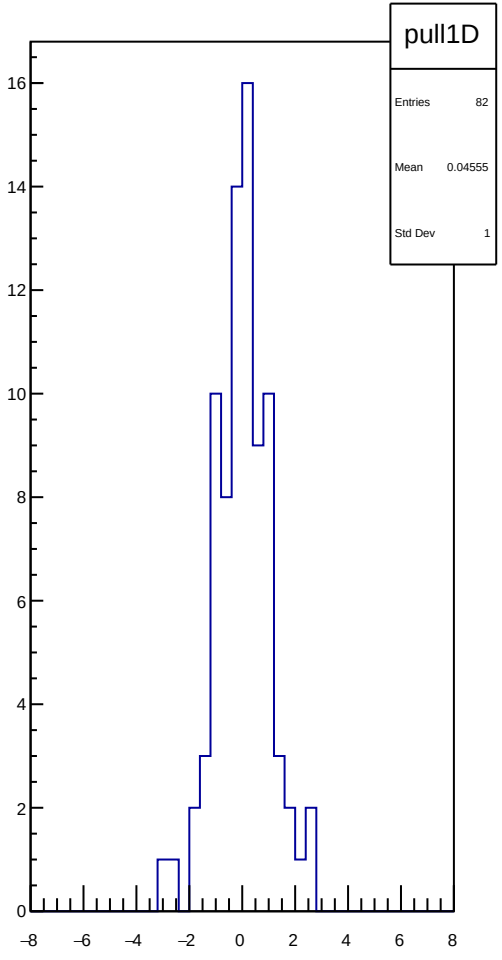

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.61 / 81
p0 −10.69 ± 2.148
pull
Entries 82
Mean −47.46
Std Dev 77.41

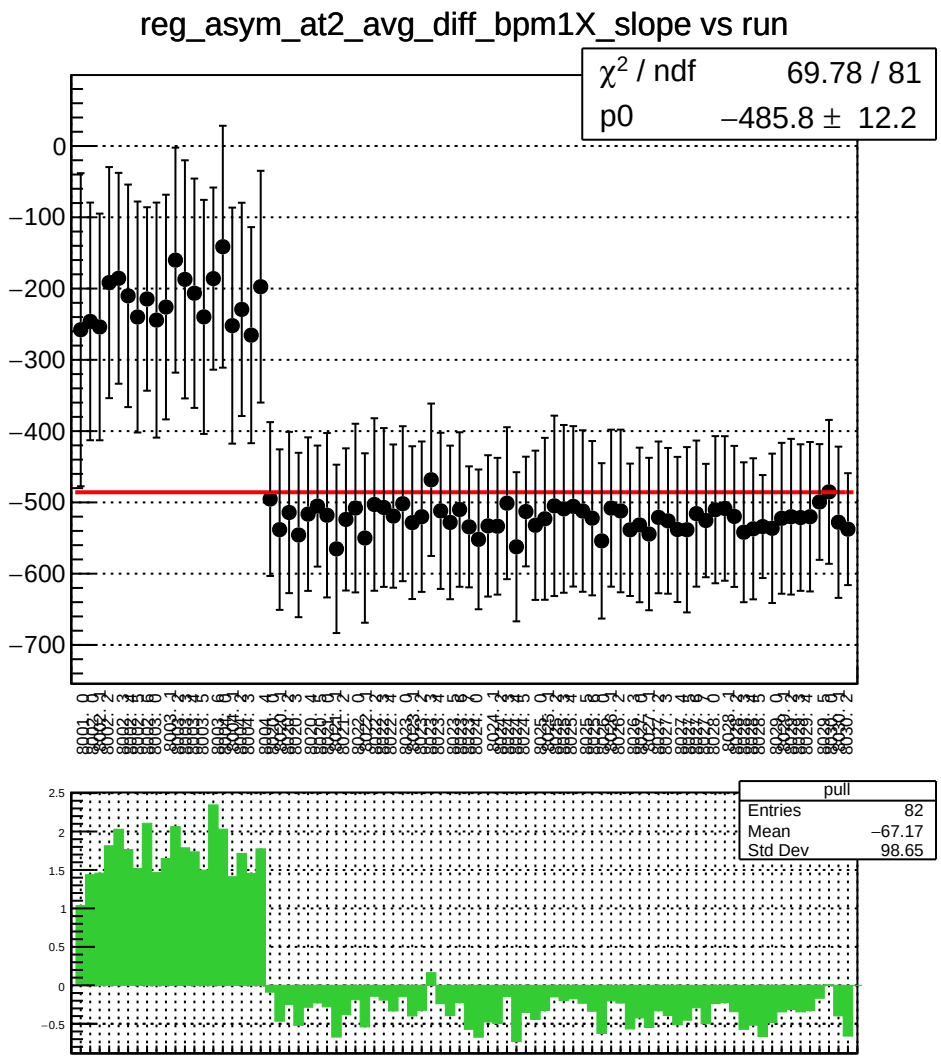

pull1D
Entries 82
Mean 0.06097
Std Dev 0.939

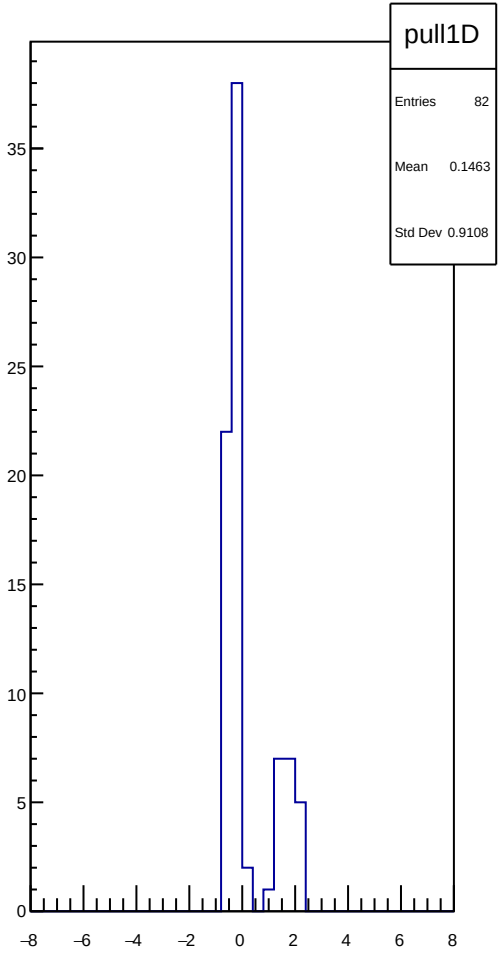

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 75.8 / 81
p0 −4.735 ± 3.49
100
50
0
−50
−100
−150
pull
Entries 82
Mean 41.72
Std Dev 68.46
2
1
0
−1
−2

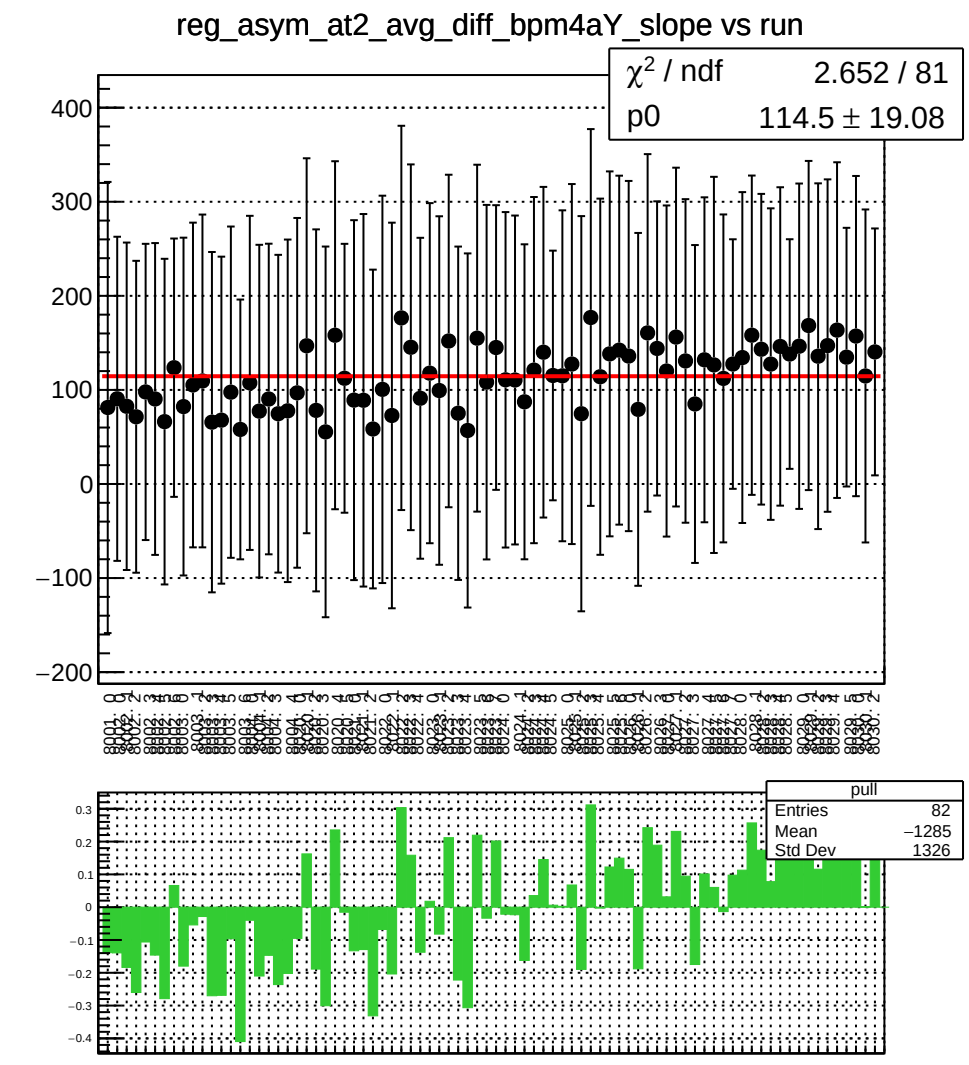

pull1D
Entries 82
Mean −0.01827
Std Dev 0.9613
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

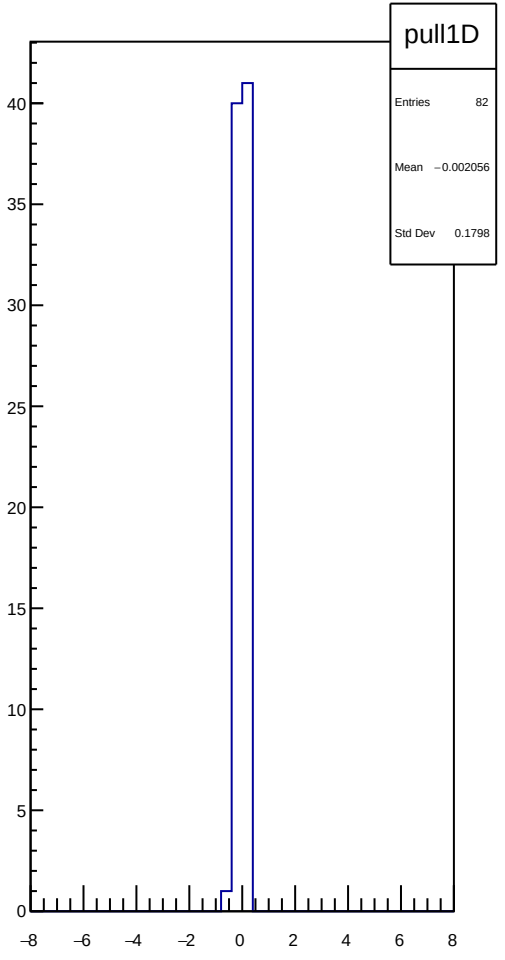

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 82.24 / 81
p0 29.17 ± 0.1591
pull
Entries 82
Mean 115.3
Std Dev 83.18

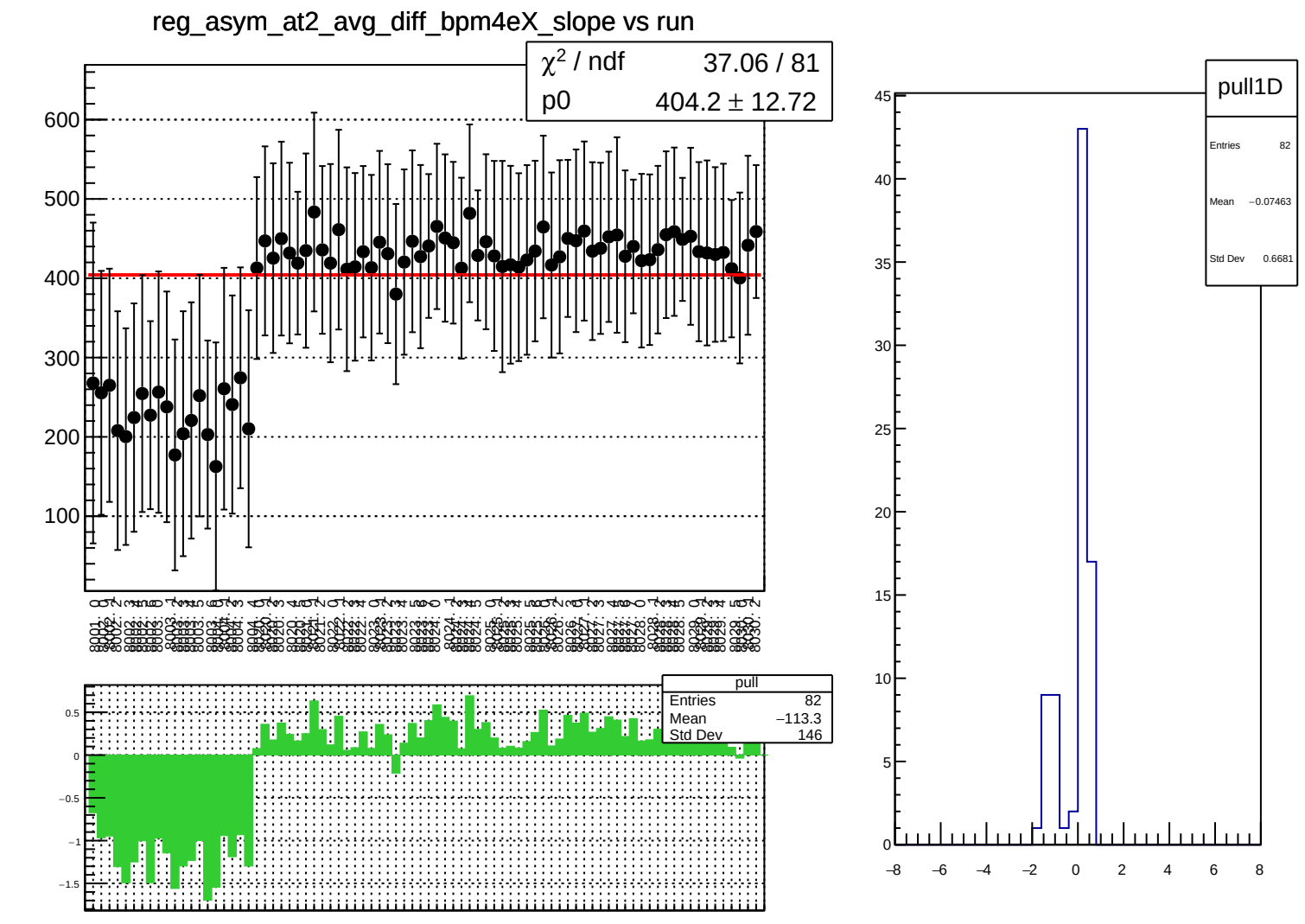

pull1D
Entries 82
Mean 0.04555
Std Dev 1

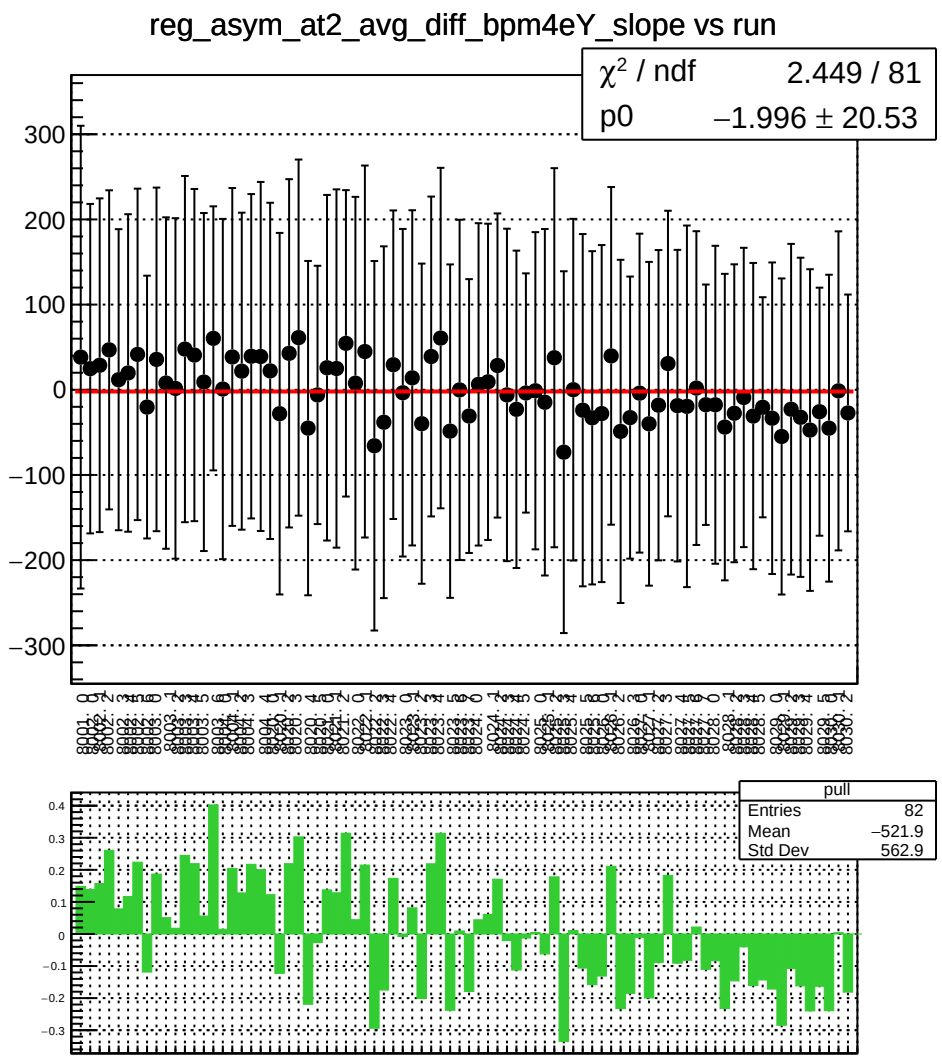

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 69.78 / 81
p0 −485.8 ± 12.2
pull
Entries 82
Mean −67.17
Std Dev 98.65

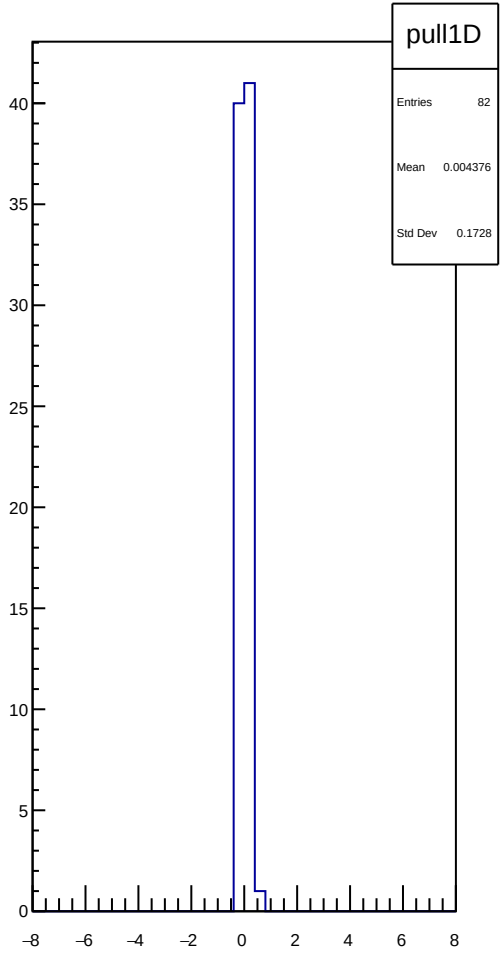

pull1D
Entries 82
Mean 0.1463
Std Dev 0.9108

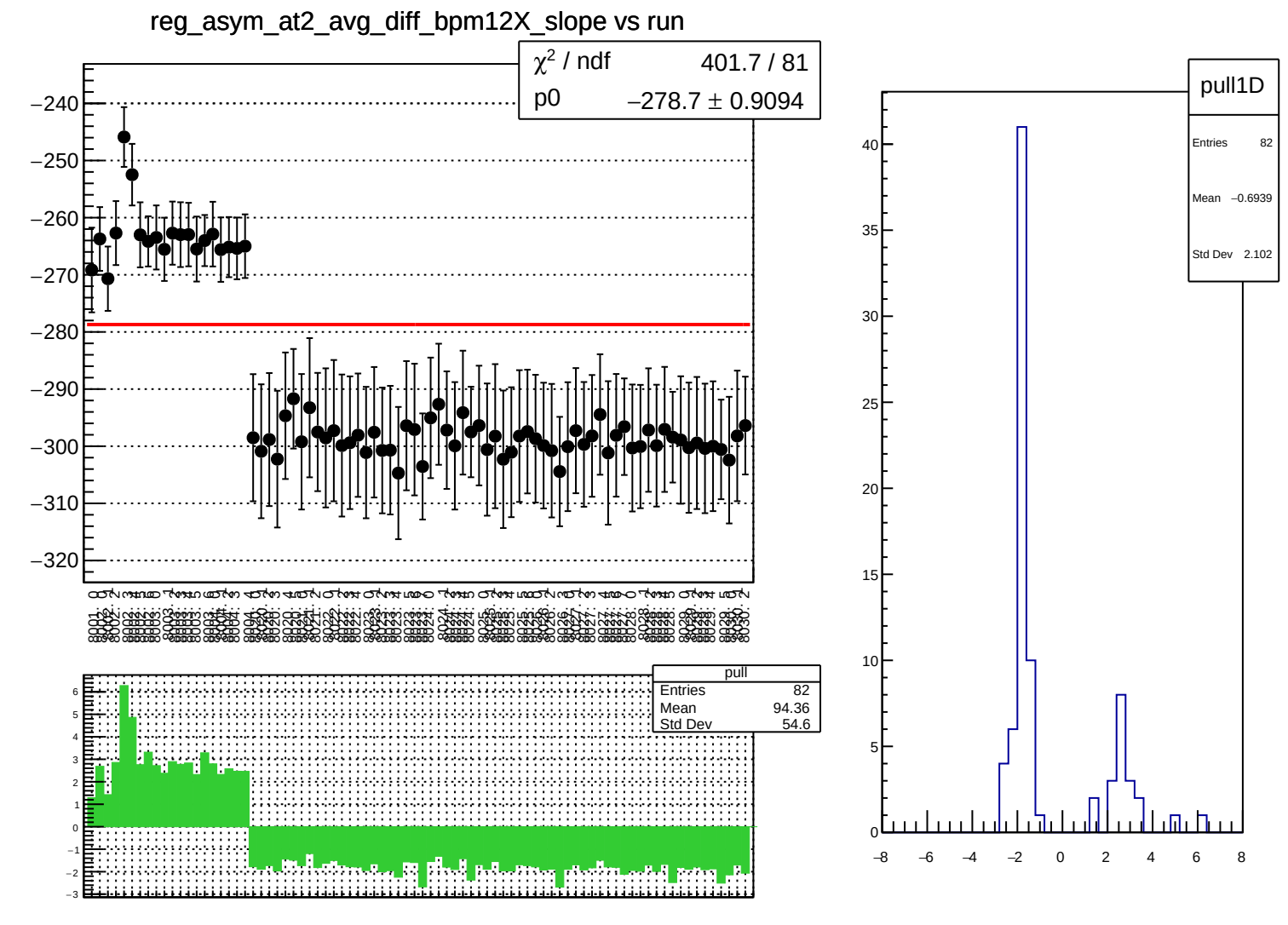

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.652 / 81
p0 114.5 ± 19.08
pull
Entries 82
Mean −1285
Std Dev 1326

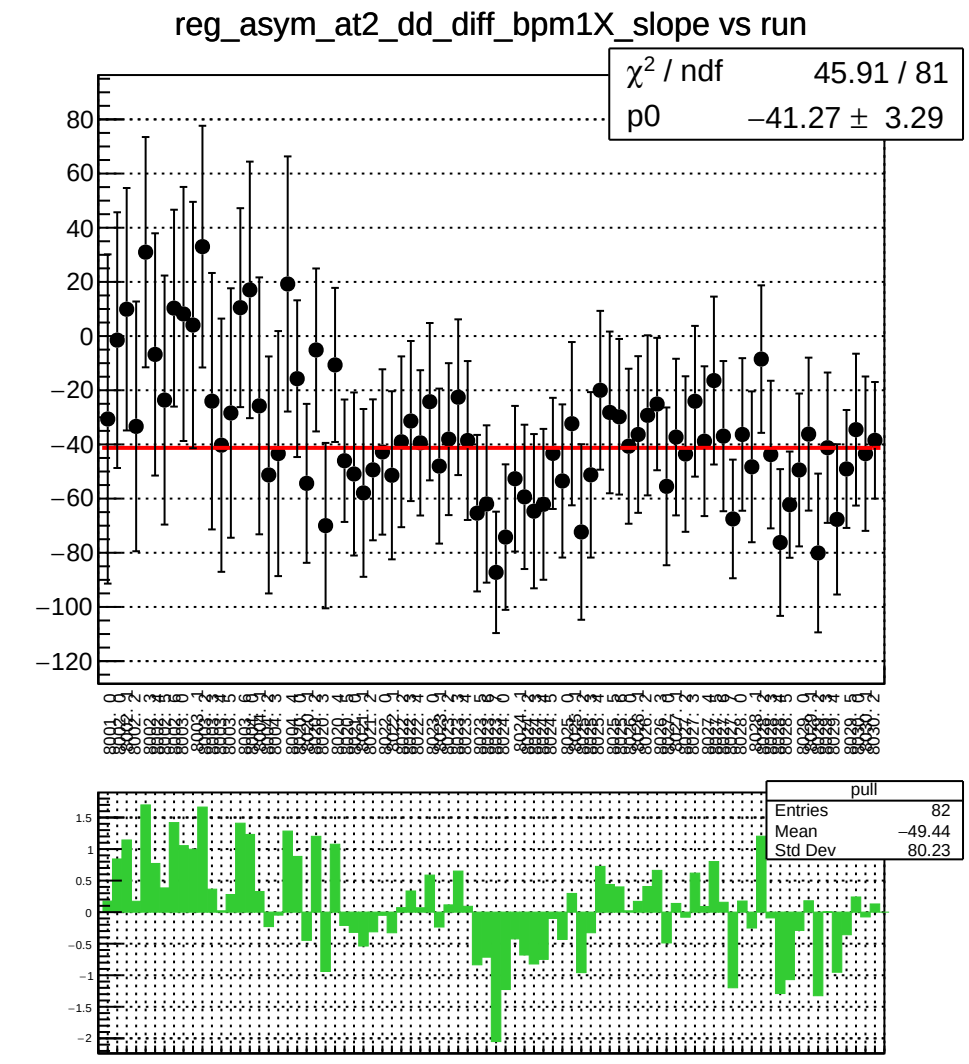

pull1D
Entries 82
Mean −0.002056
Std Dev 0.1798

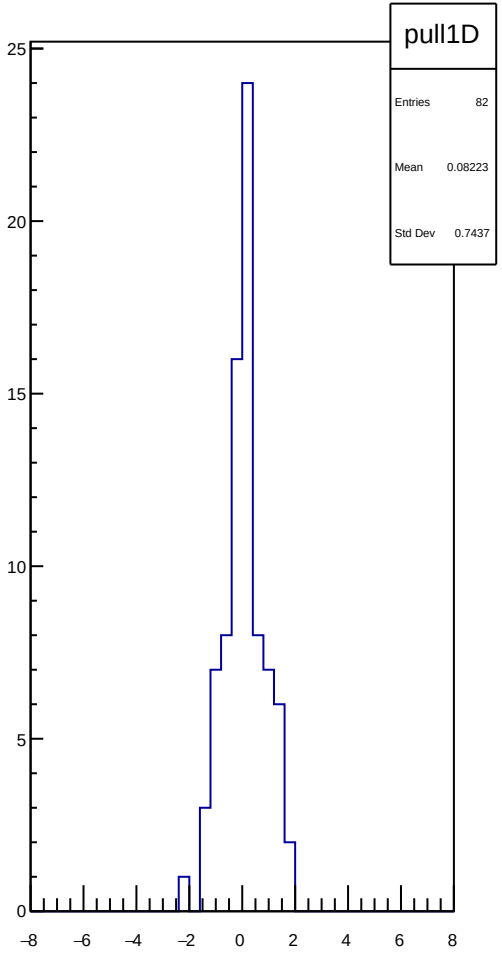

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.06 / 81
p0 404.2 ± 12.72
600
500
400
300
200
100
pull
Entries 82
Mean −113.3
Std Dev 146
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean −0.07463
Std Dev 0.6681
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

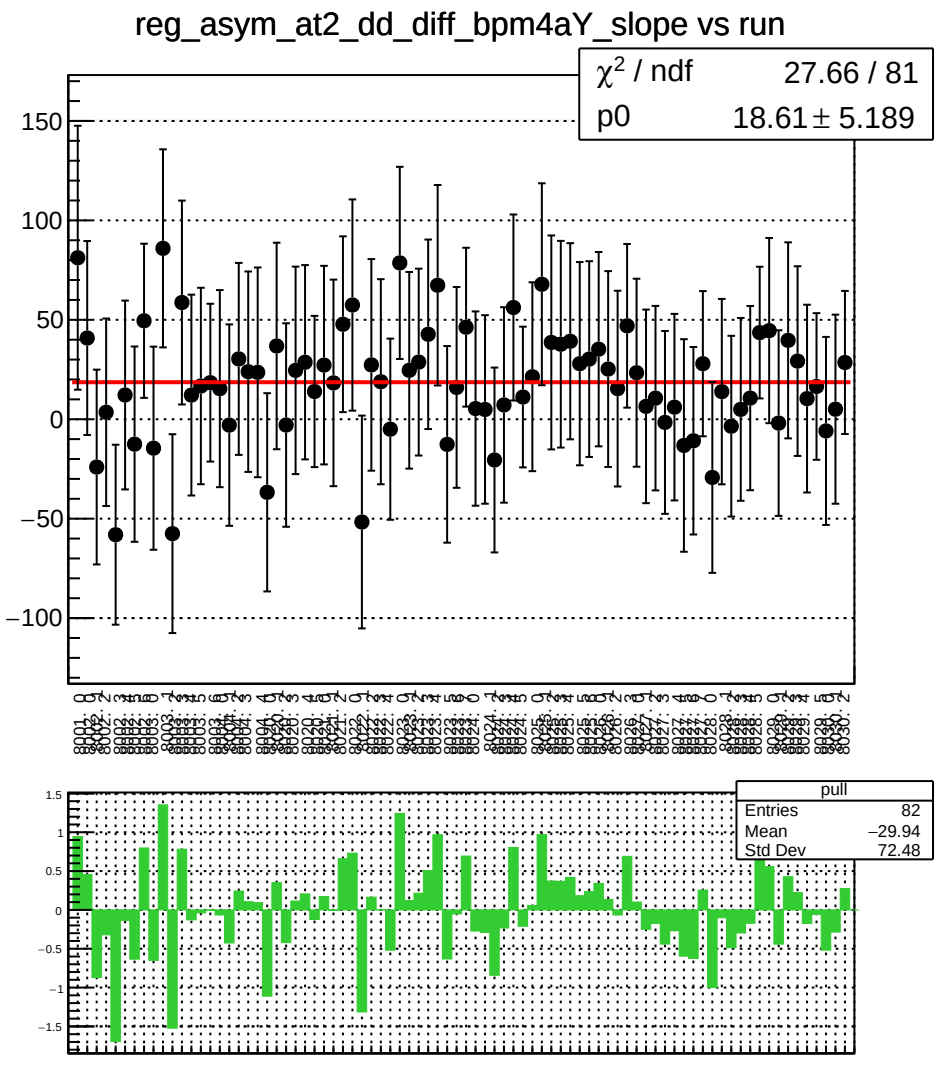

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.449 / 81
p0 −1.996 ± 20.53
300
200
100
0
−100
−200
−300
pull
Entries 82
Mean −521.9
Std Dev 562.9
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

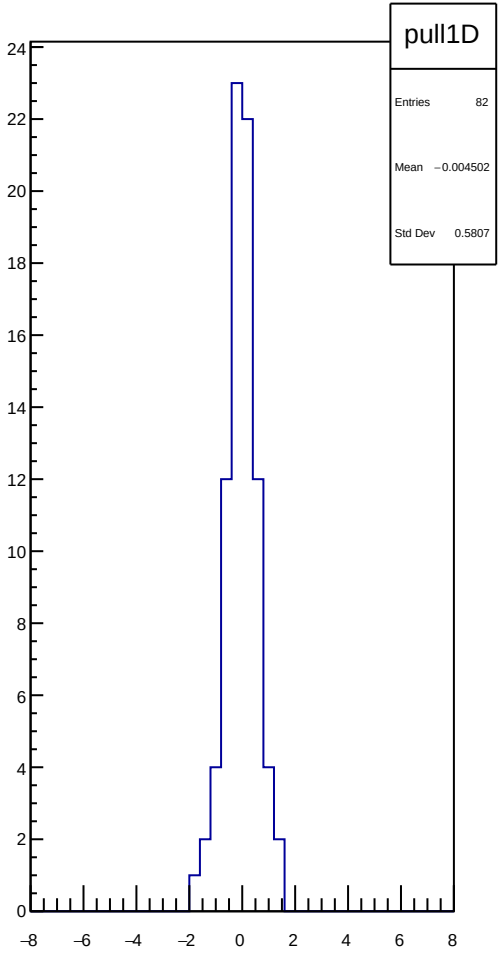

pull1D
Entries 82
Mean 0.004376
Std Dev 0.1728
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

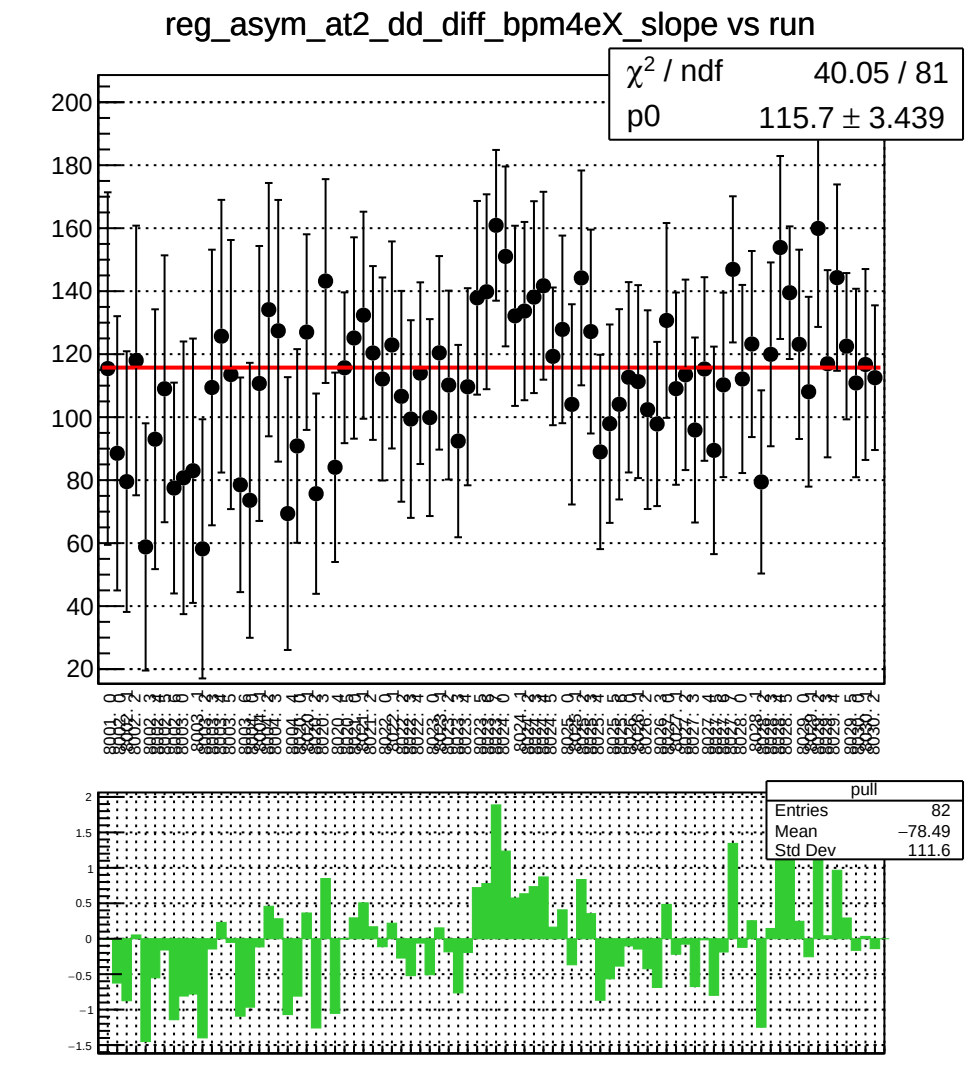

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 401.7 / 81
p0 −278.7 ± 0.9094
pull
Entries 82
Mean 94.36
Std Dev 54.6
pull1D
Entries 82
Mean −0.6939
Std Dev 2.102

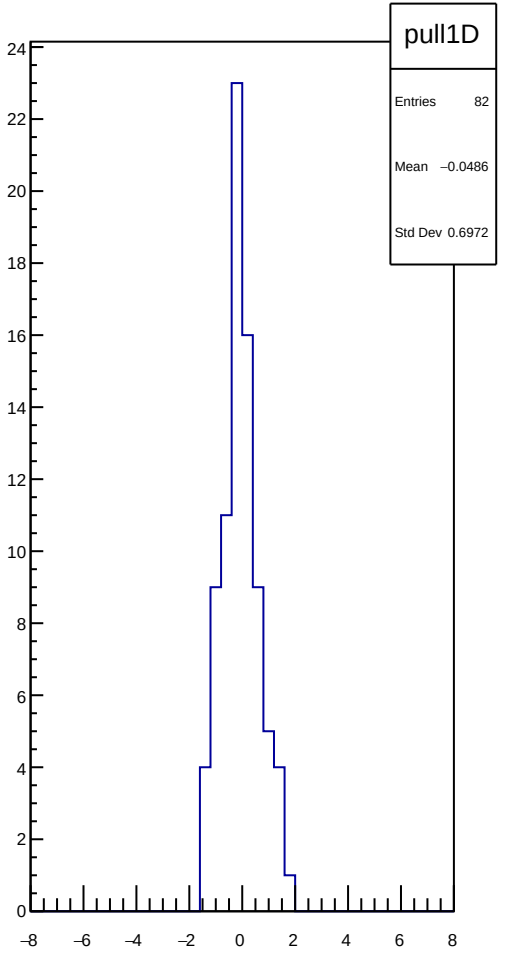

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 45.91 / 81
p0 −41.27 ± 3.29
pull
Entries 82
Mean −49.44
Std Dev 80.23

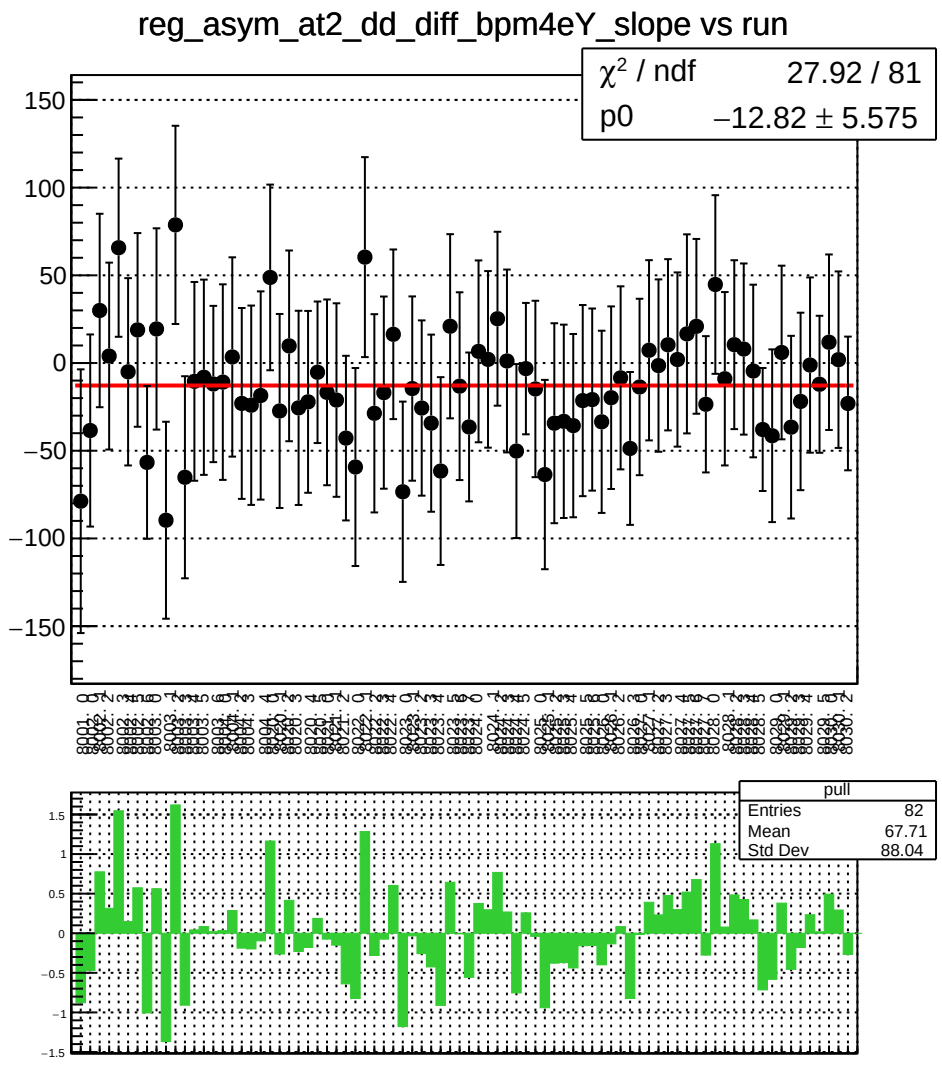

pull1D
Entries 82
Mean 0.08223
Std Dev 0.7437

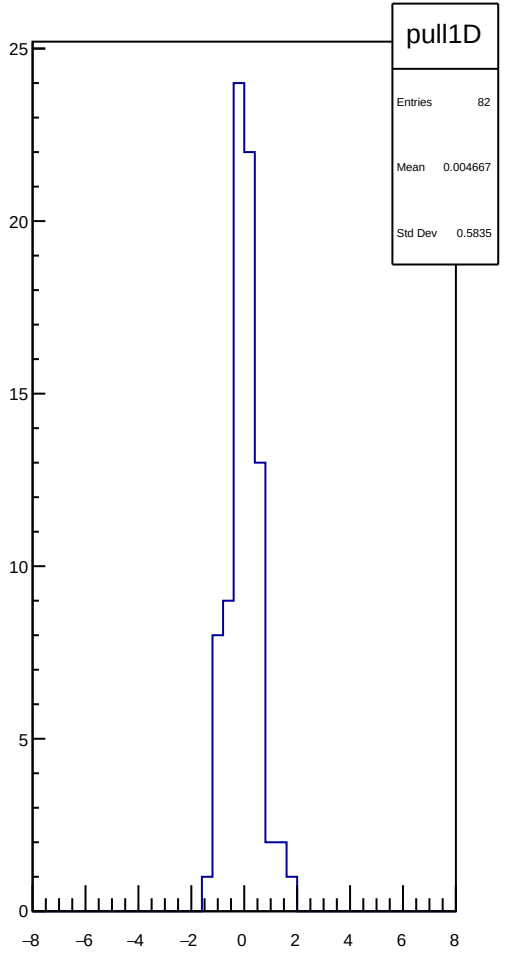

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.66 / 81
p0 18.61 ± 5.189
pull
Entries 82
Mean −29.94
Std Dev 72.48

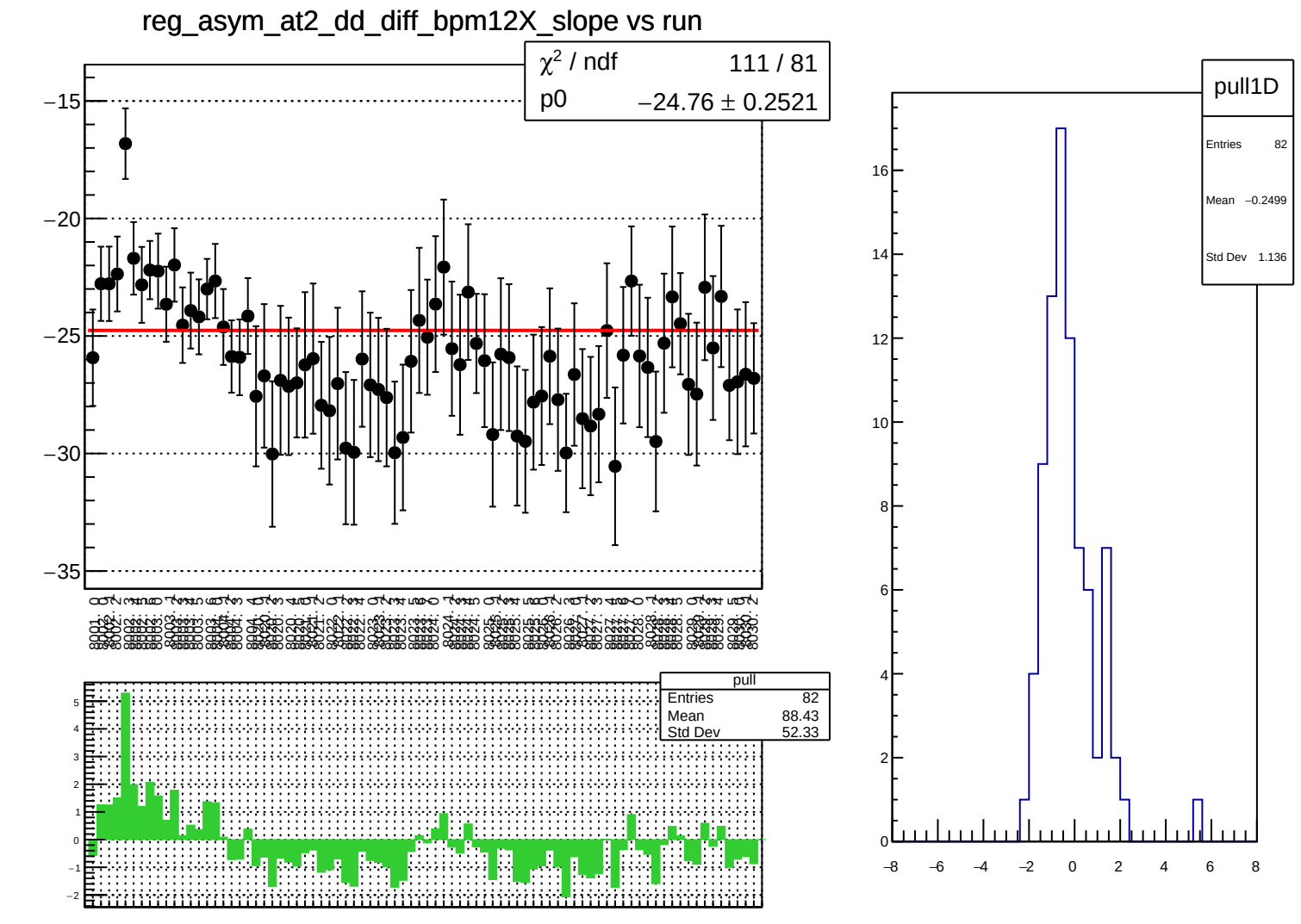

pull1D
Entries 82
Mean −0.004502
Std Dev 0.5807

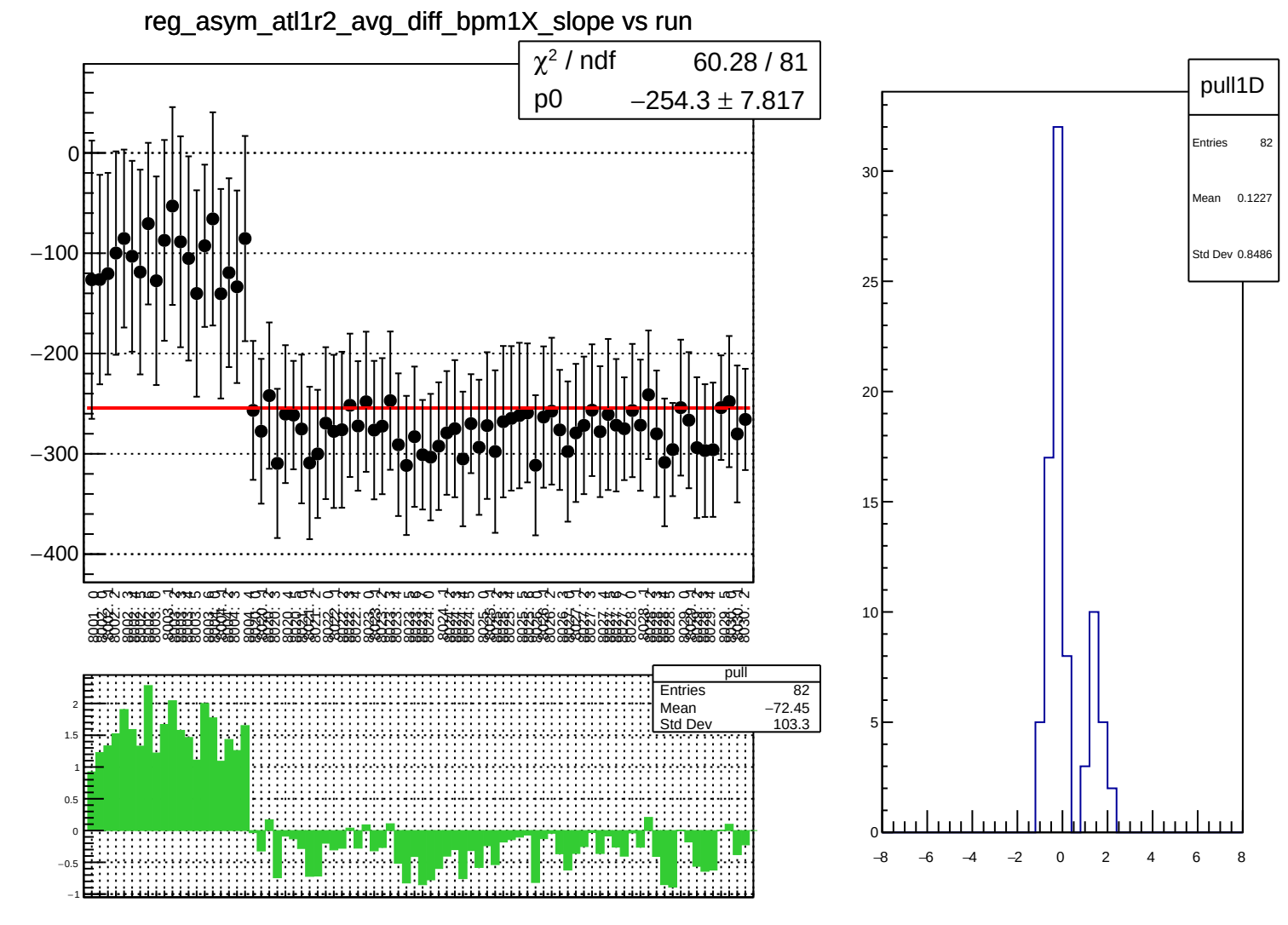

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.05 / 81
p0 115.7 ± 3.439
pull
Entries 82
Mean −78.49
Std Dev 111.6

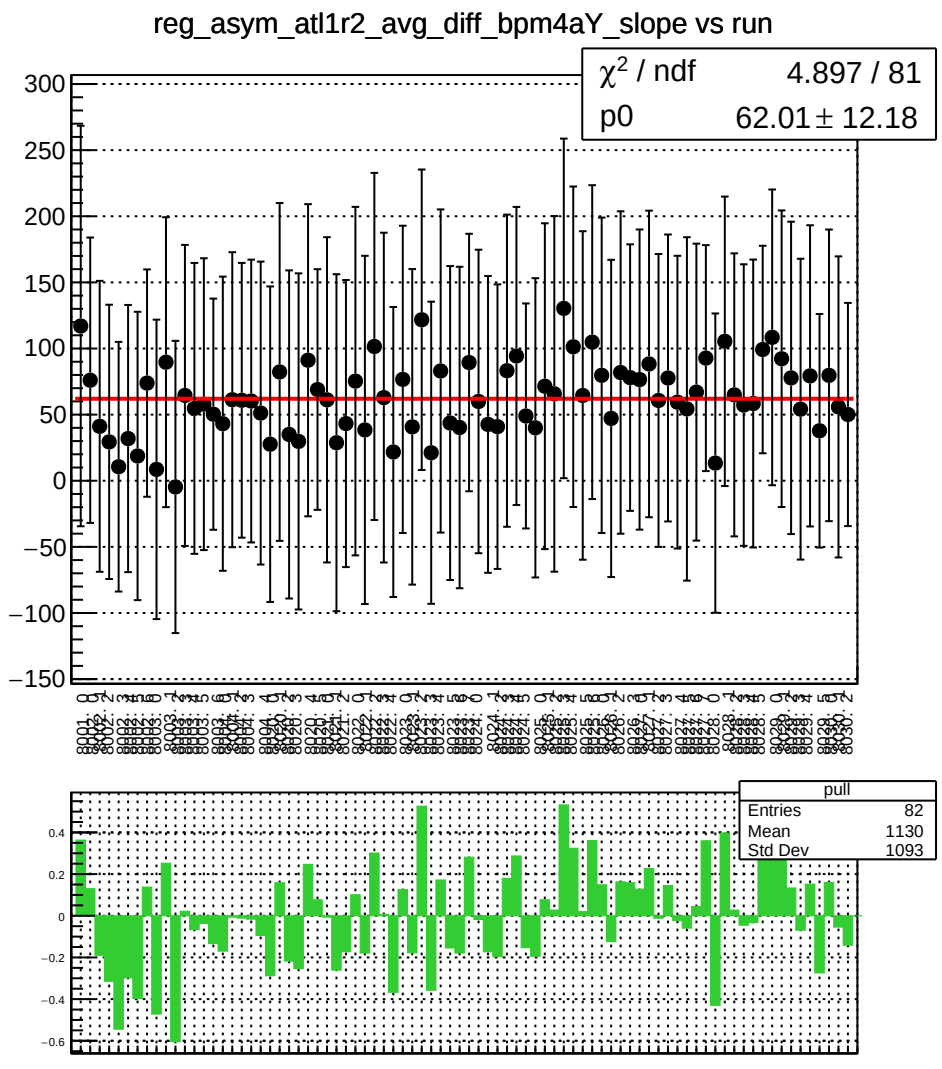

pull1D
Entries 82
Mean −0.0486
Std Dev 0.6972

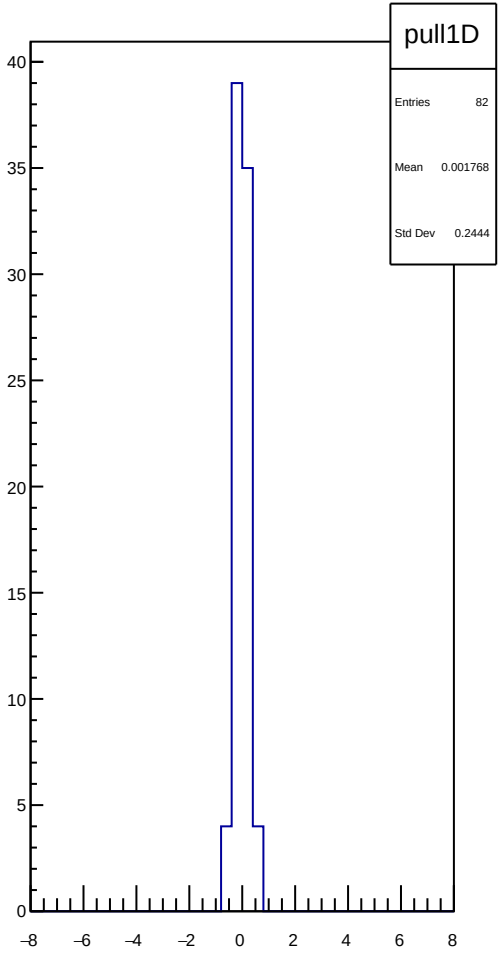

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.92 / 81
p0 −12.82 ± 5.575
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean 67.71
Std Dev 88.04
1.5
1
0.5
0
−0.5
−1
−1.5

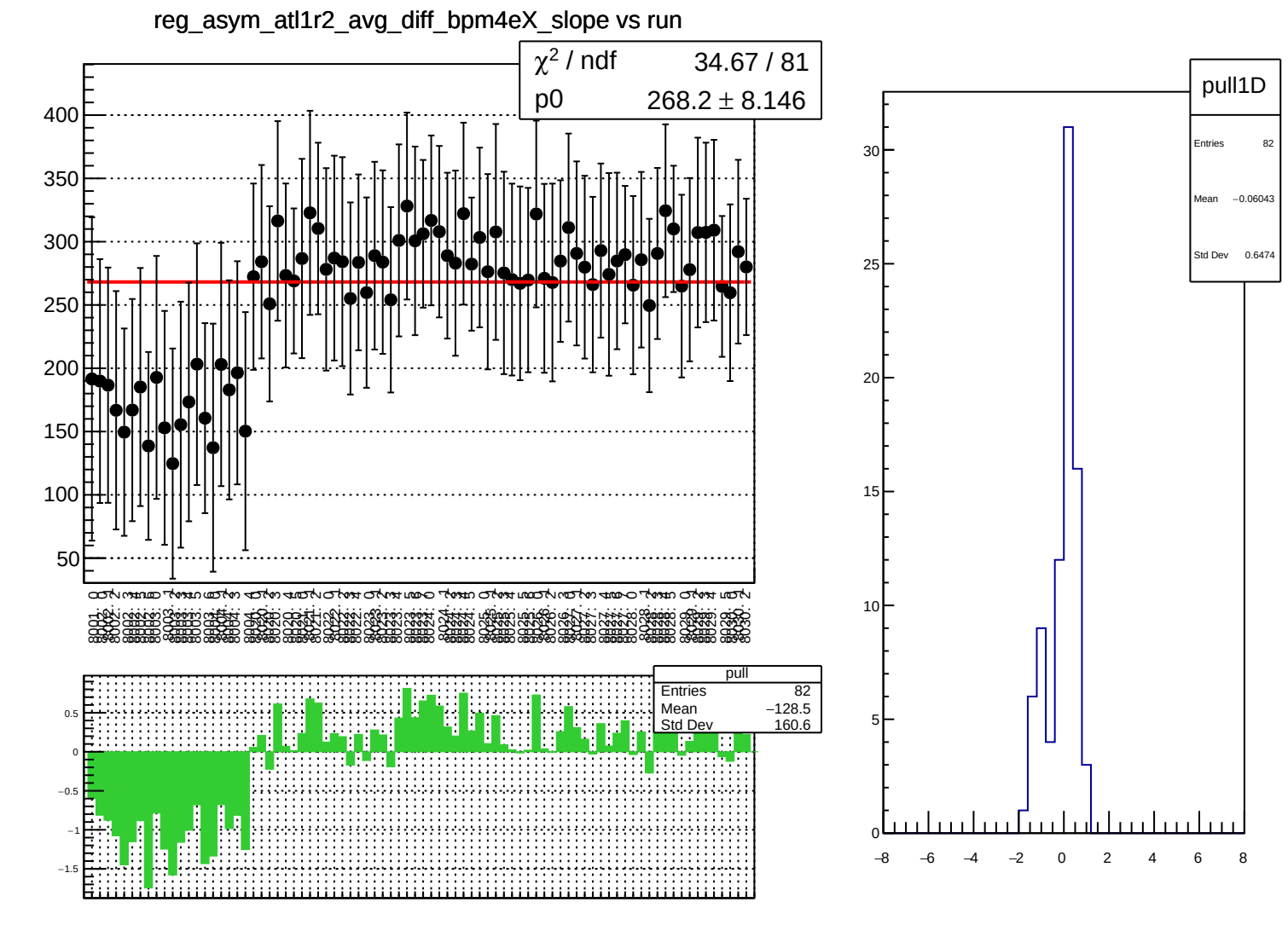

pull1D
Entries 82
Mean 0.004667
Std Dev 0.5835
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

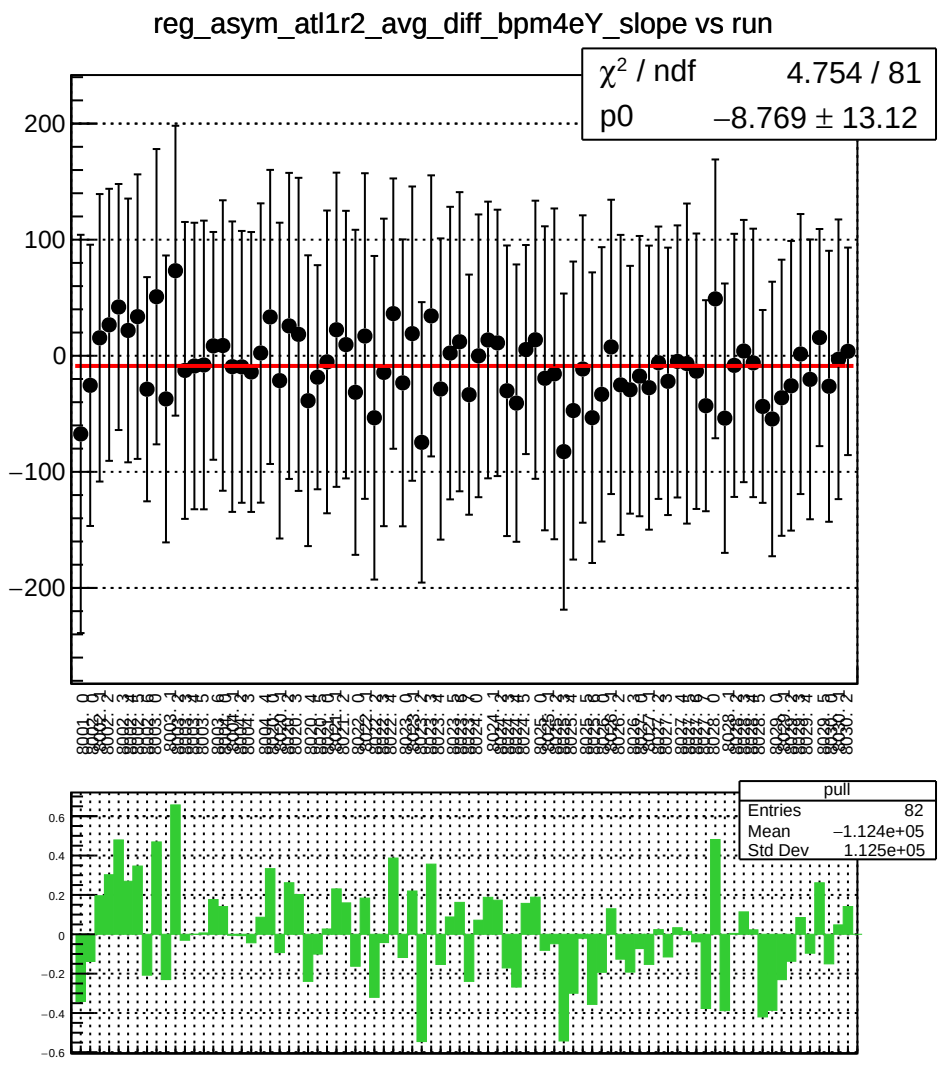

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 111 / 81
p0 −24.76 ± 0.2521
pull
Entries 82
Mean 88.43
Std Dev 52.33
pull1D
Entries 82
Mean −0.2499
Std Dev 1.136

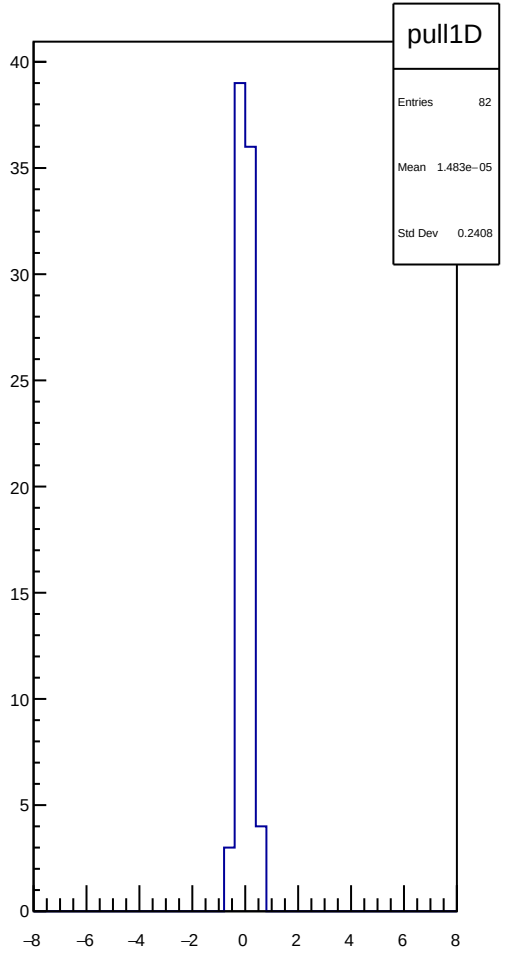

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 60.28 / 81
p0 −254.3 ± 7.817
0
−100
−200
−300
−400
pull
Entries 82
Mean −72.45
Std Dev 103.3
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 82
Mean 0.1227
Std Dev 0.8486
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

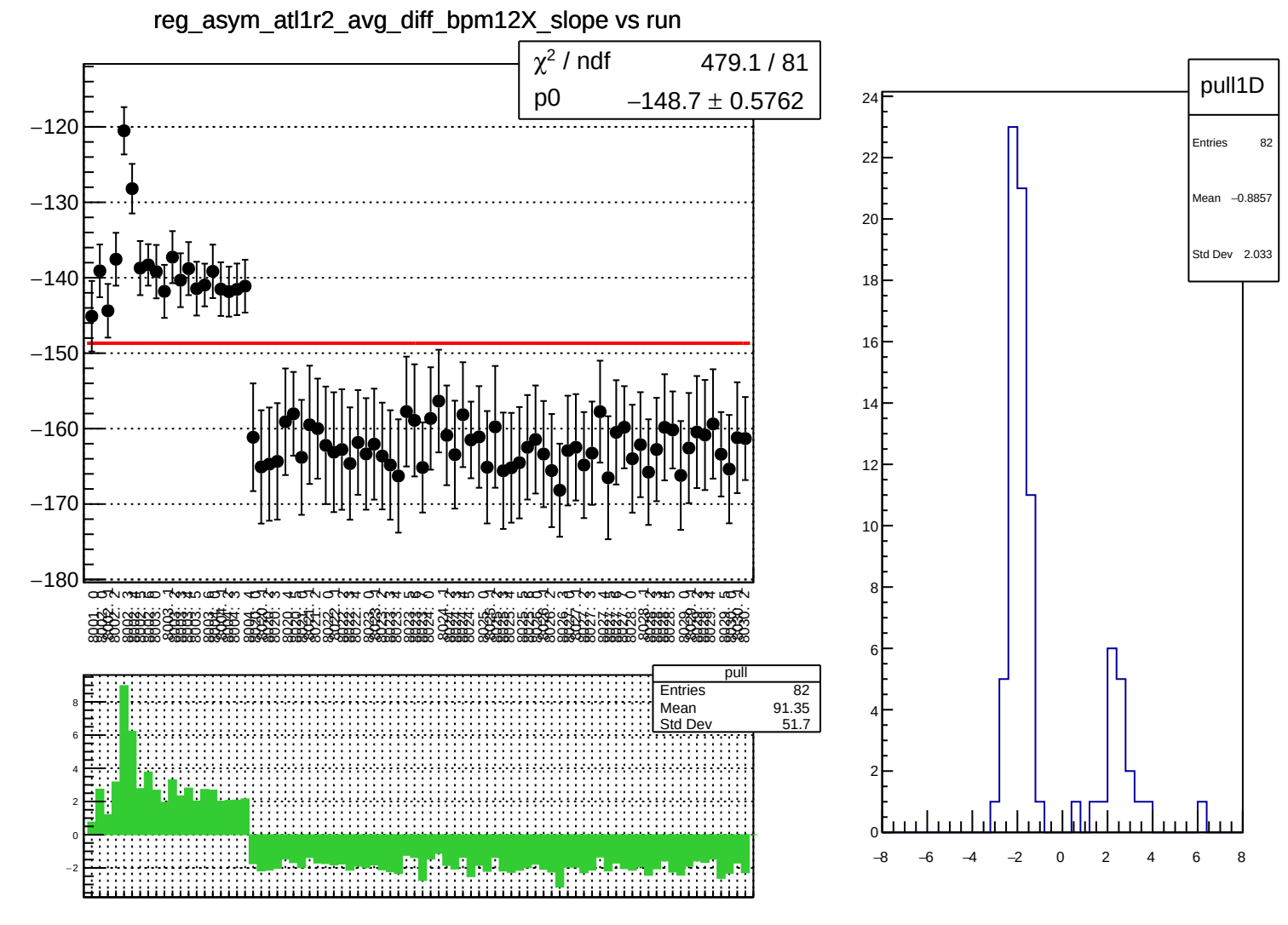

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.897 / 81
p0 62.01 ± 12.18
pull
Entries 82
Mean 1130
Std Dev 1093

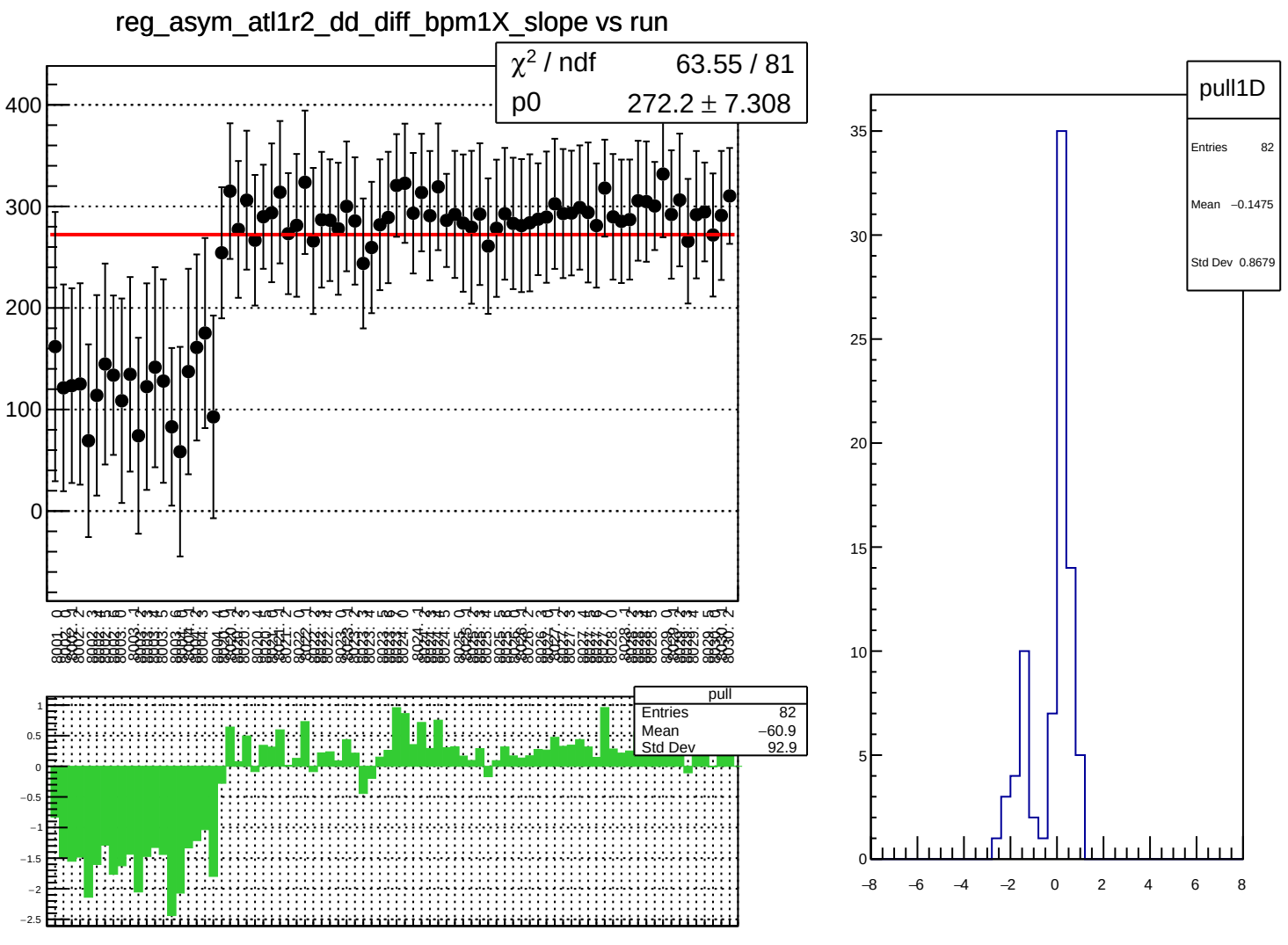

pull1D
Entries 82
Mean 0.001768
Std Dev 0.2444

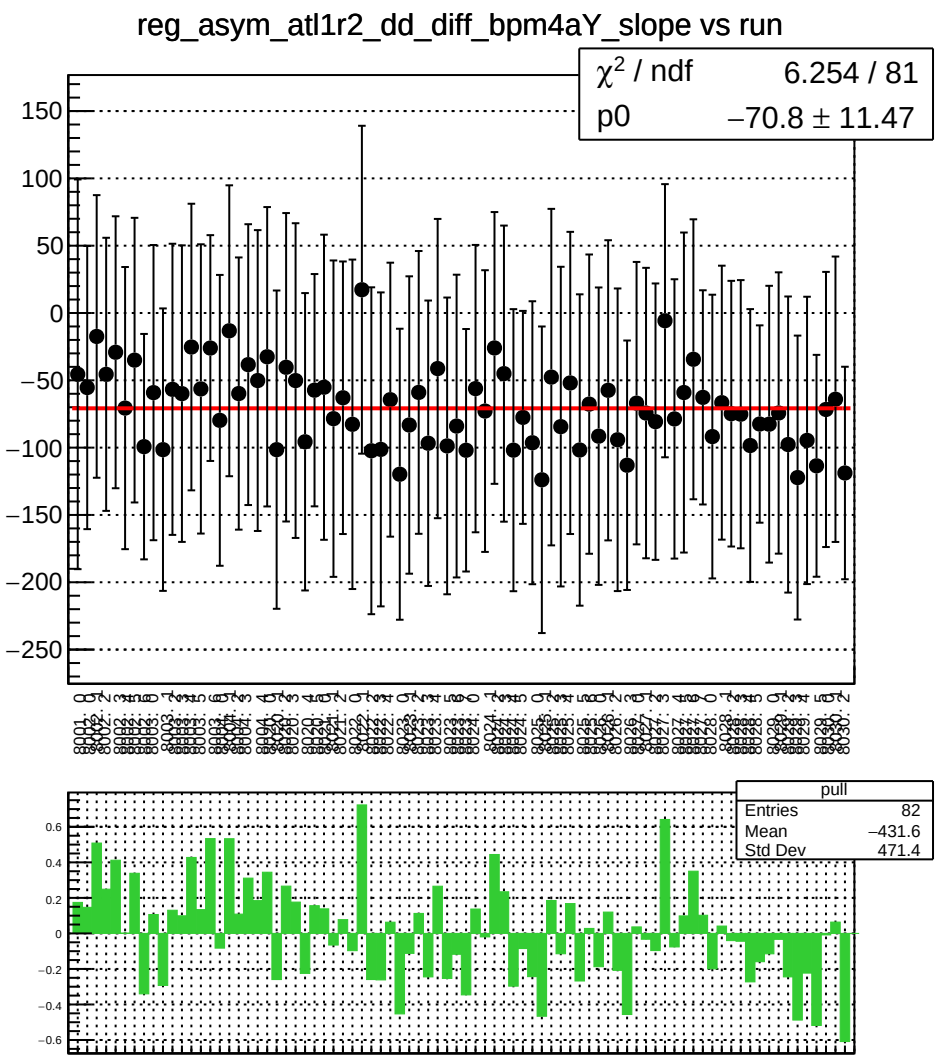

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.67 / 81
p0 268.2 ± 8.146
400
350
300
250
200
150
100
50
pull
Entries 82
Mean −128.5
Std Dev 160.6
0.5
0
−0.5
−1
−1.5
pull1D
Entries 82
Mean −0.06043
Std Dev 0.6474
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

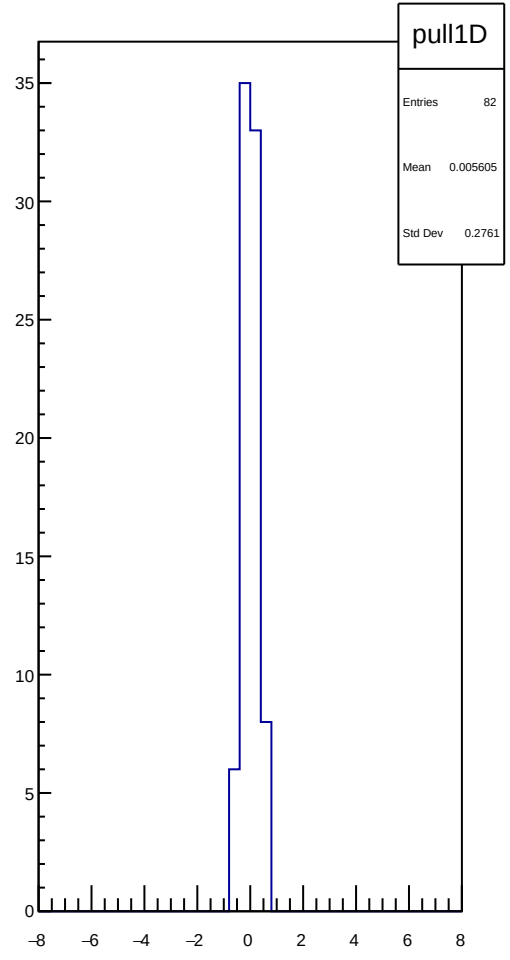

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.754 / 81
p0 −8.769 ± 13.12
200
100
0
−100
−200
pull
Entries 82
Mean −1.124e+05
Std Dev 1.125e+05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

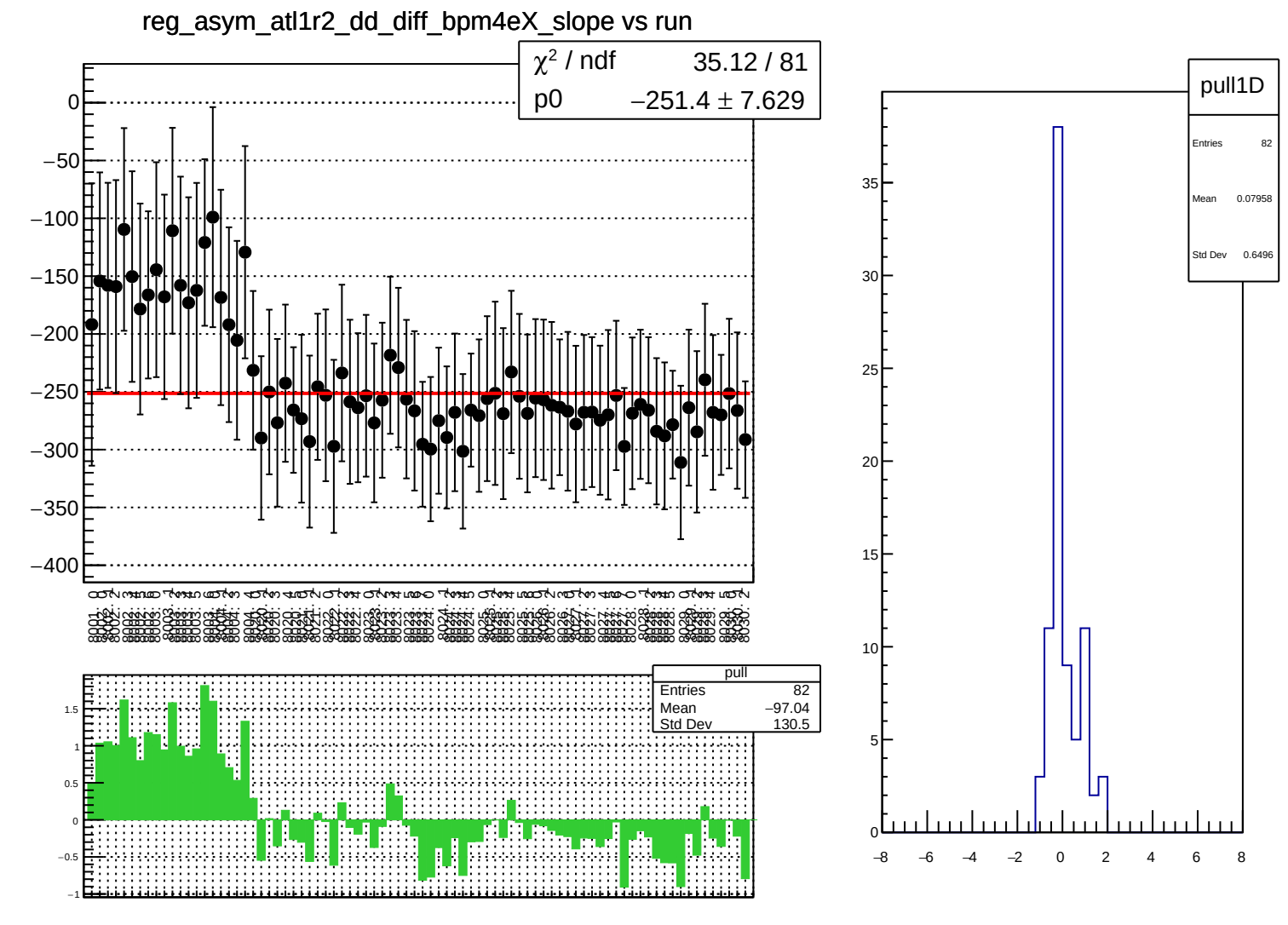

pull1D
Entries 82
Mean 1.483e−05
Std Dev 0.2408
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

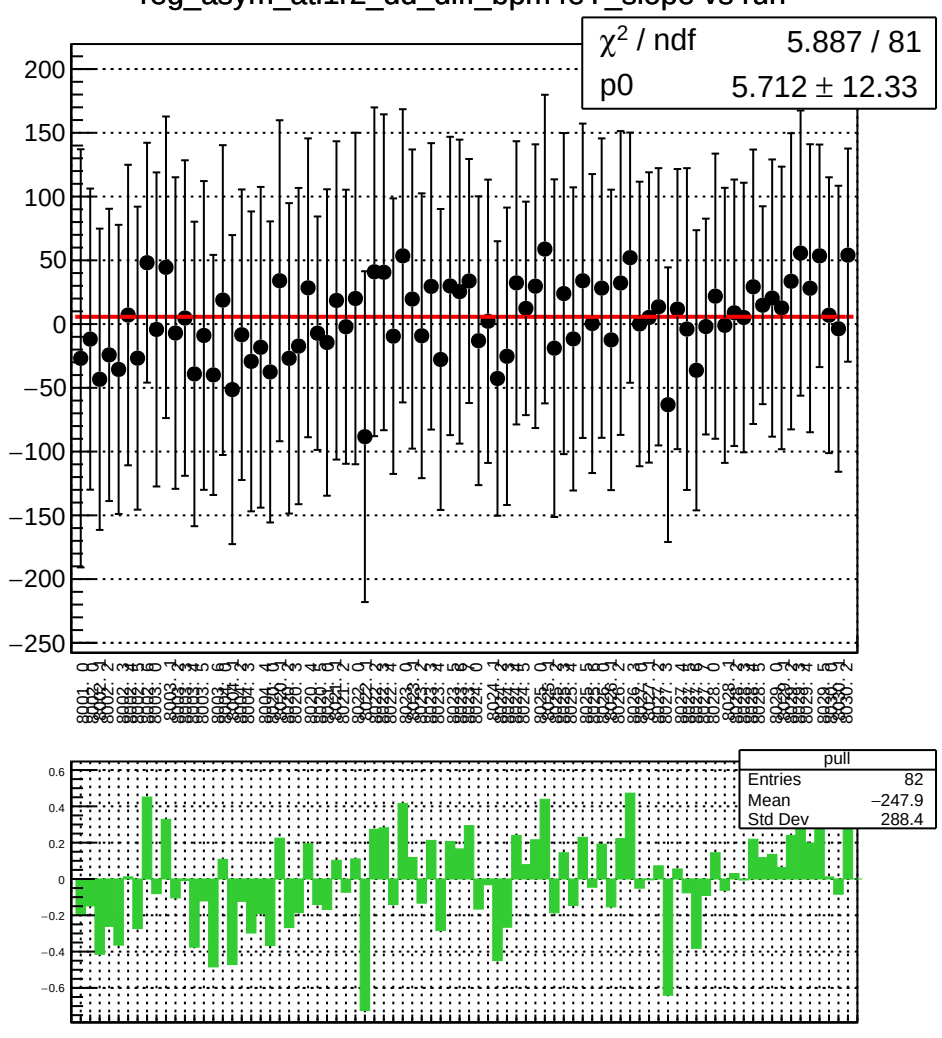

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 479.1 / 81
p0 −148.7 ± 0.5762
pull
Entries 82
Mean 91.35
Std Dev 51.7
pull1D
Entries 82
Mean −0.8857
Std Dev 2.033

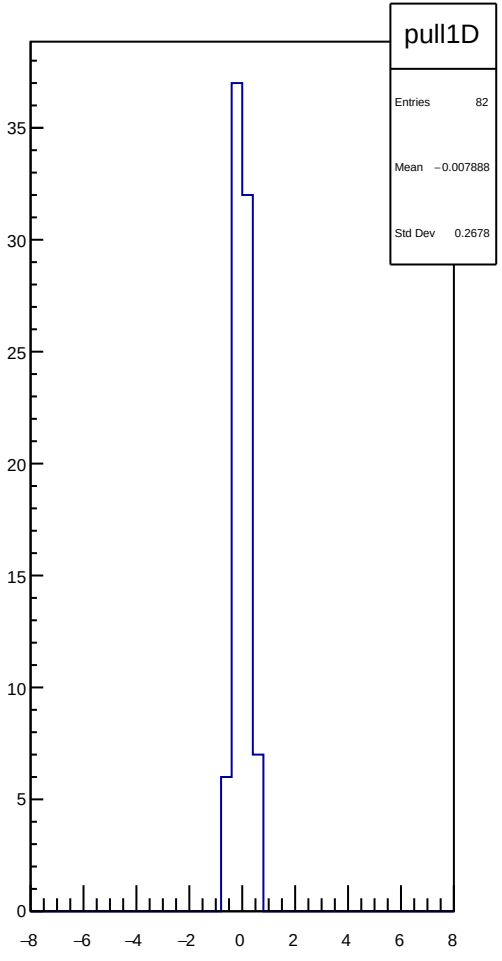

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 63.55 / 81
p0 272.2 ± 7.308
pull
Entries 82
Mean −60.9
Std Dev 92.9
pull1D
Entries 82
Mean −0.1475
Std Dev 0.8679

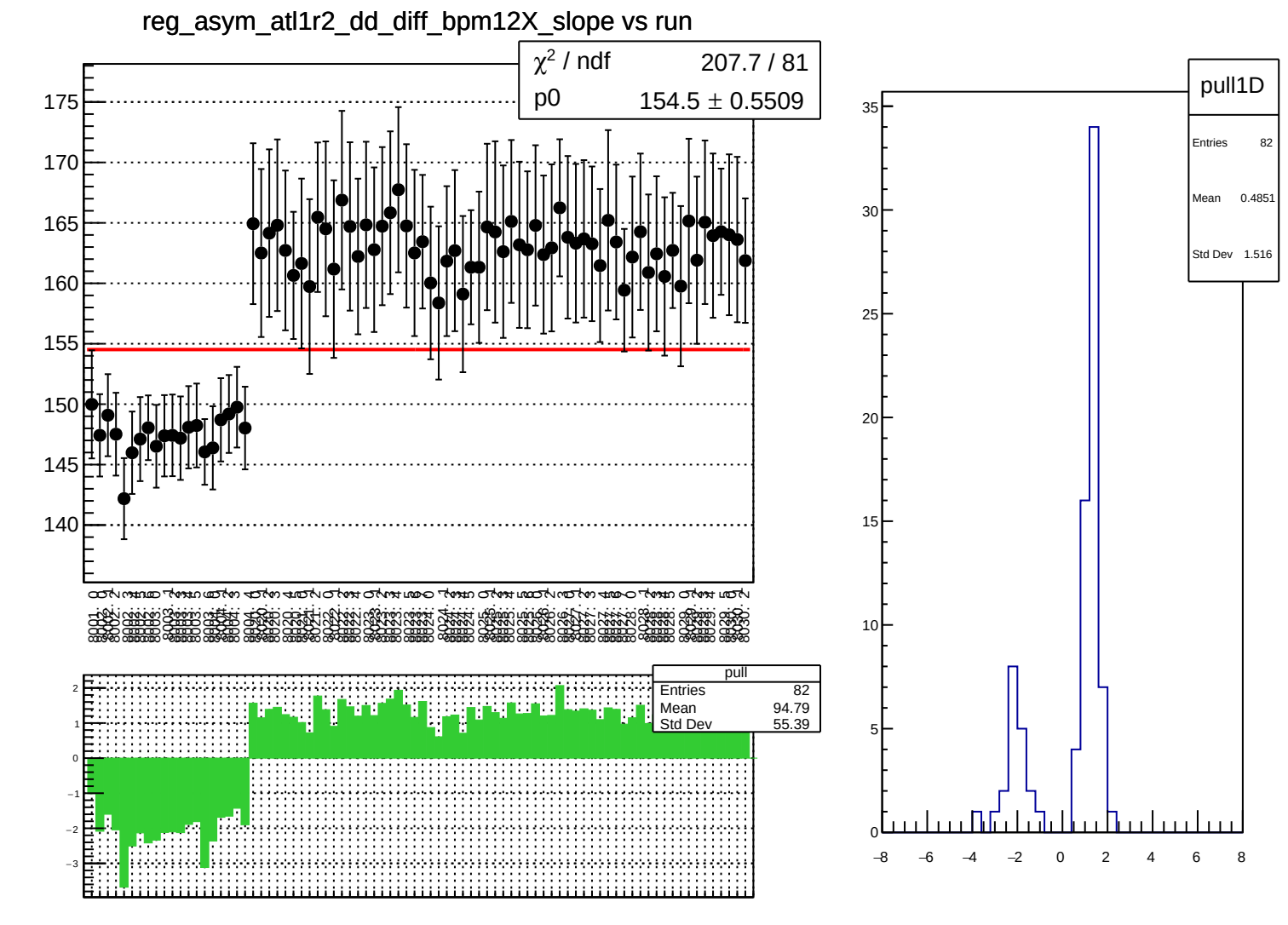

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.254 / 81
p0 −70.8 ± 11.47
pull
Entries 82
Mean −431.6
Std Dev 471.4

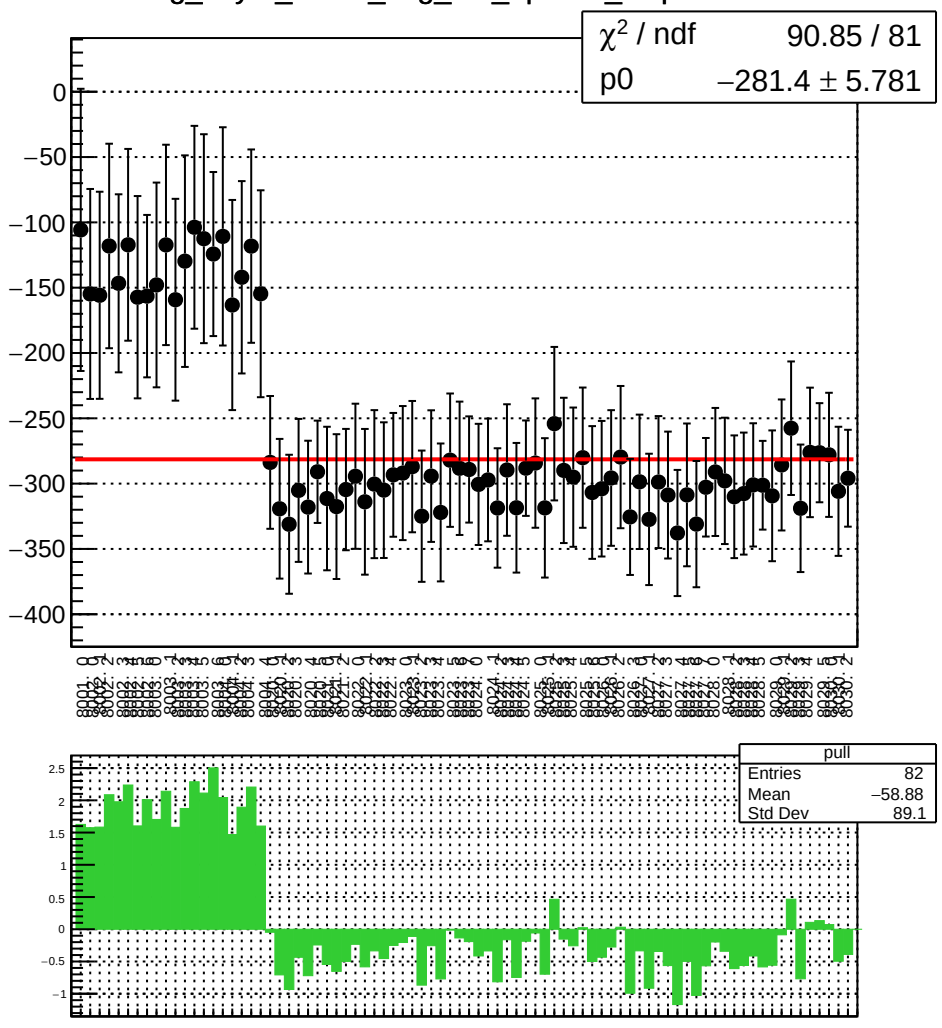

pull1D
Entries 82
Mean 0.005605
Std Dev 0.2761

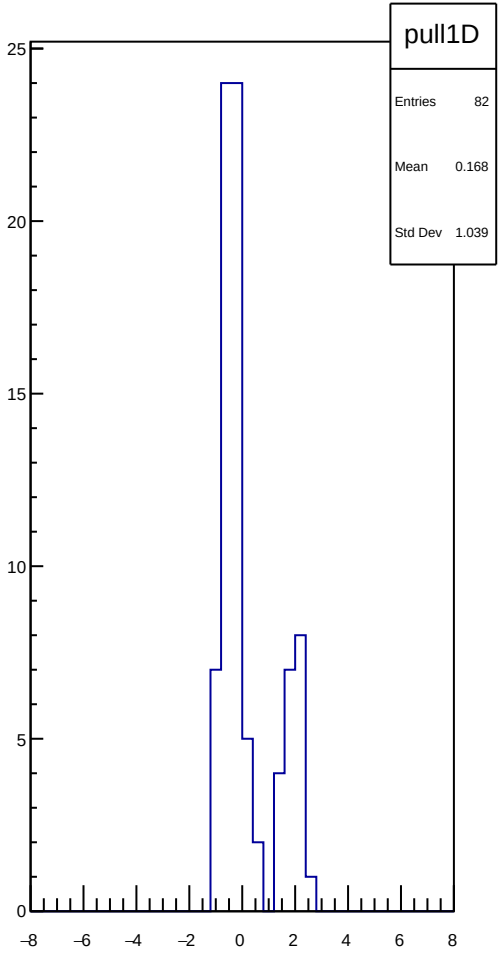

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.12 / 81
p0 −251.4 ± 7.629
pull
Entries 82
Mean −97.04
Std Dev 130.5
pull1D
Entries 82
Mean 0.07958
Std Dev 0.6496

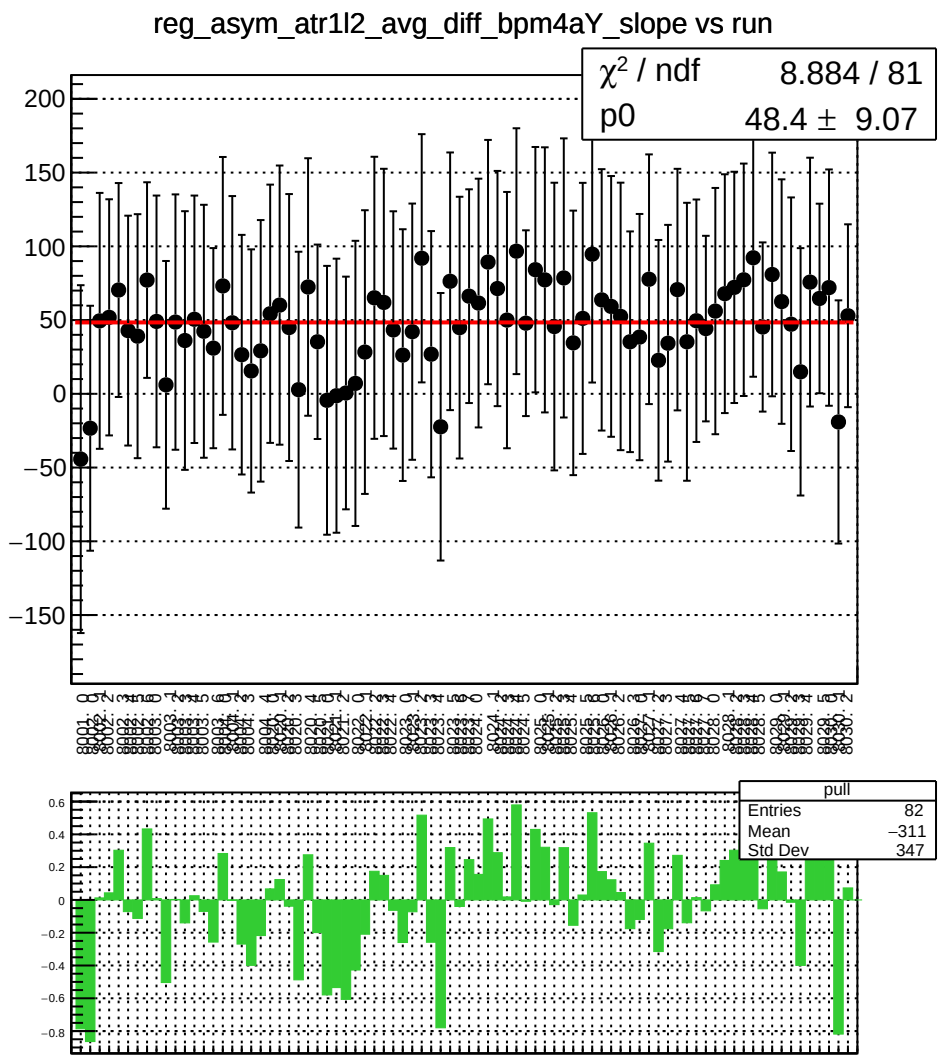

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.887 / 81
p0 5.712 ± 12.33
pull
Entries 82
Mean −247.9
Std Dev 288.4

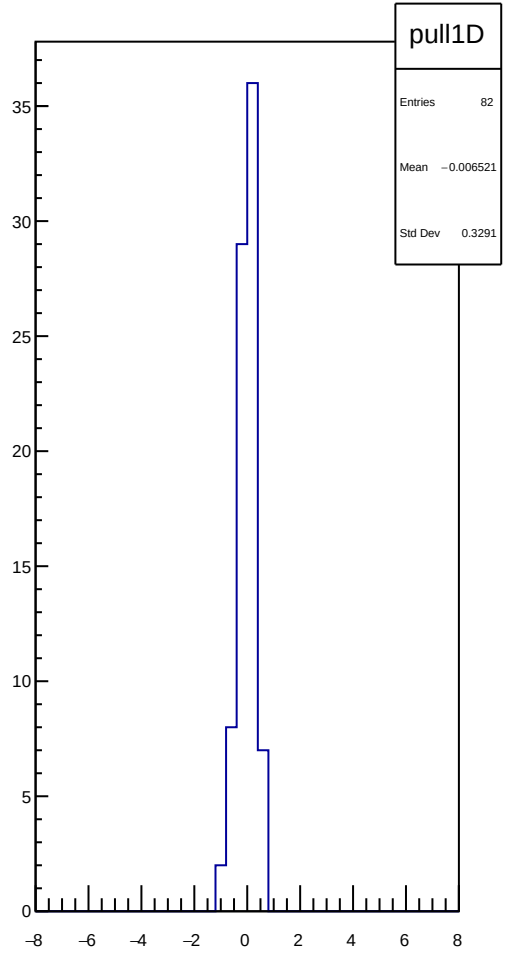

pull1D
Entries 82
Mean −0.007888
Std Dev 0.2678

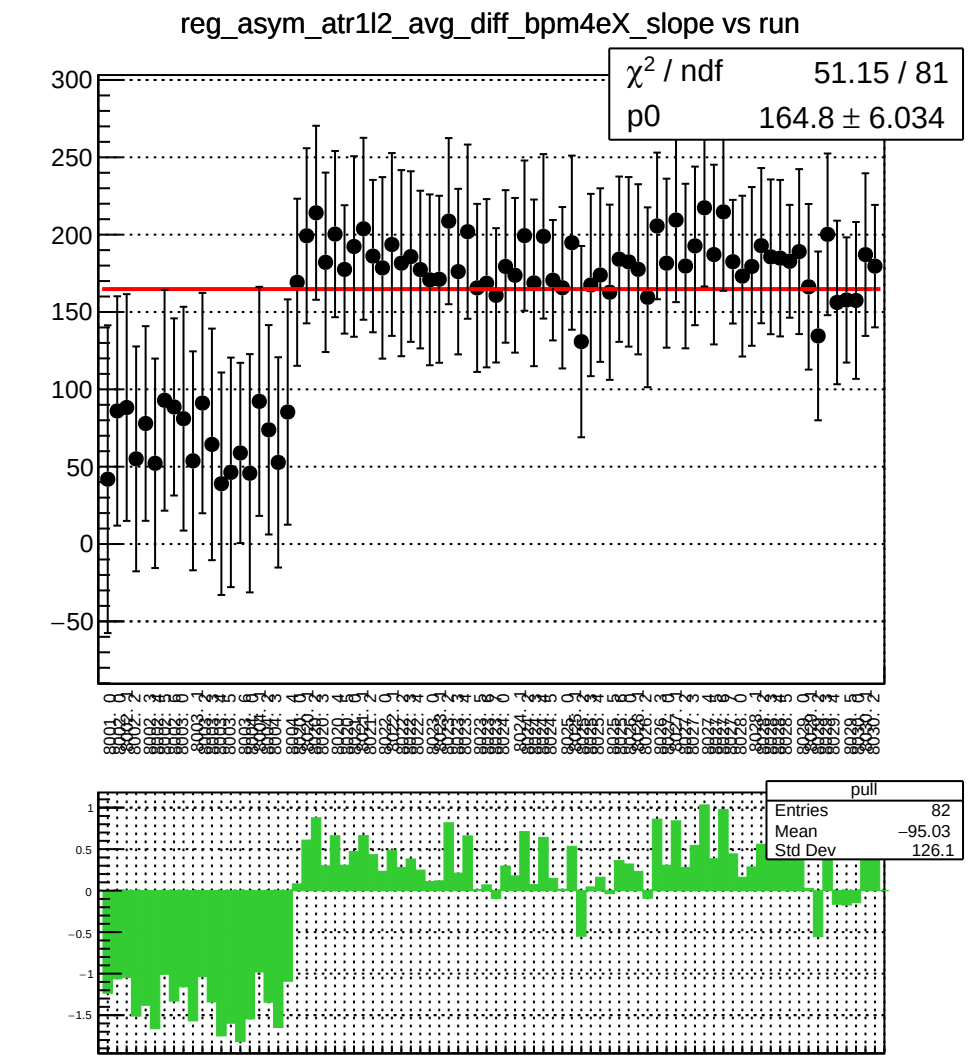

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 207.7 / 81
p0 154.5 ± 0.5509
pull
Entries 82
Mean 94.79
Std Dev 55.39
pull1D
Entries 82
Mean 0.4851
Std Dev 1.516

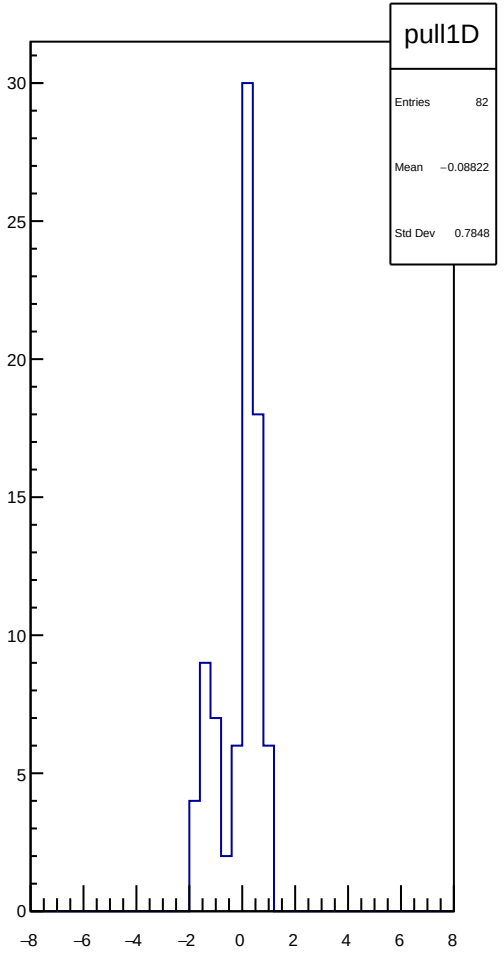

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 90.85 / 81
p0 −281.4 ± 5.781
pull
Entries 82
Mean −58.88
Std Dev 89.1

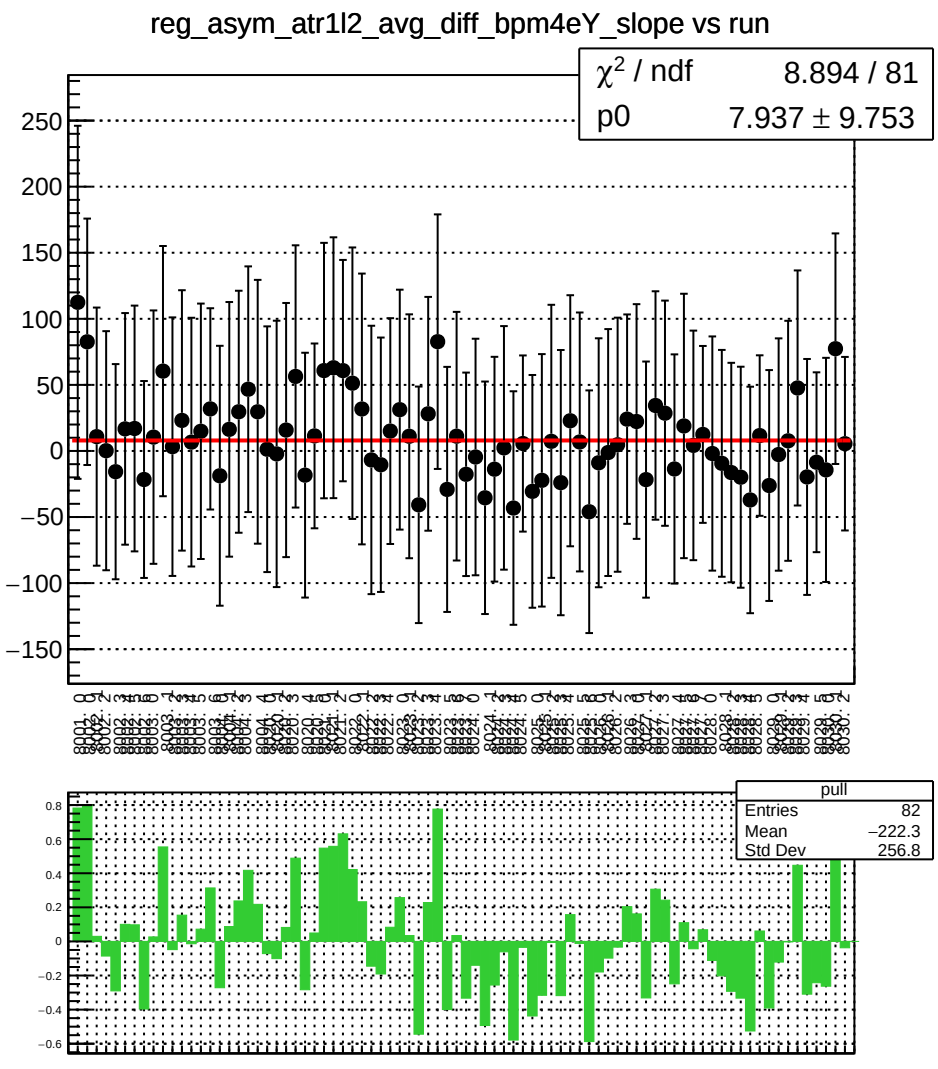

pull1D
Entries 82
Mean 0.168
Std Dev 1.039

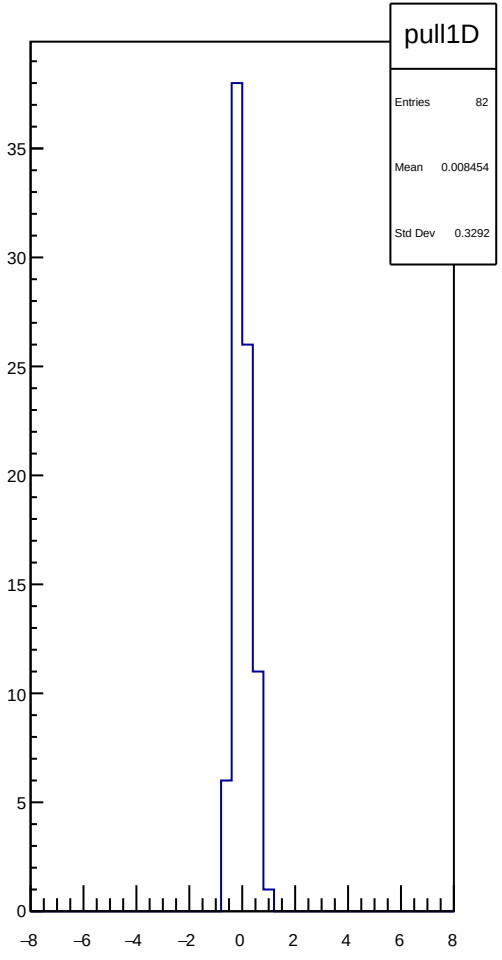

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.884 / 81
p0 48.4 ± 9.07
pull
Entries 82
Mean −311
Std Dev 347

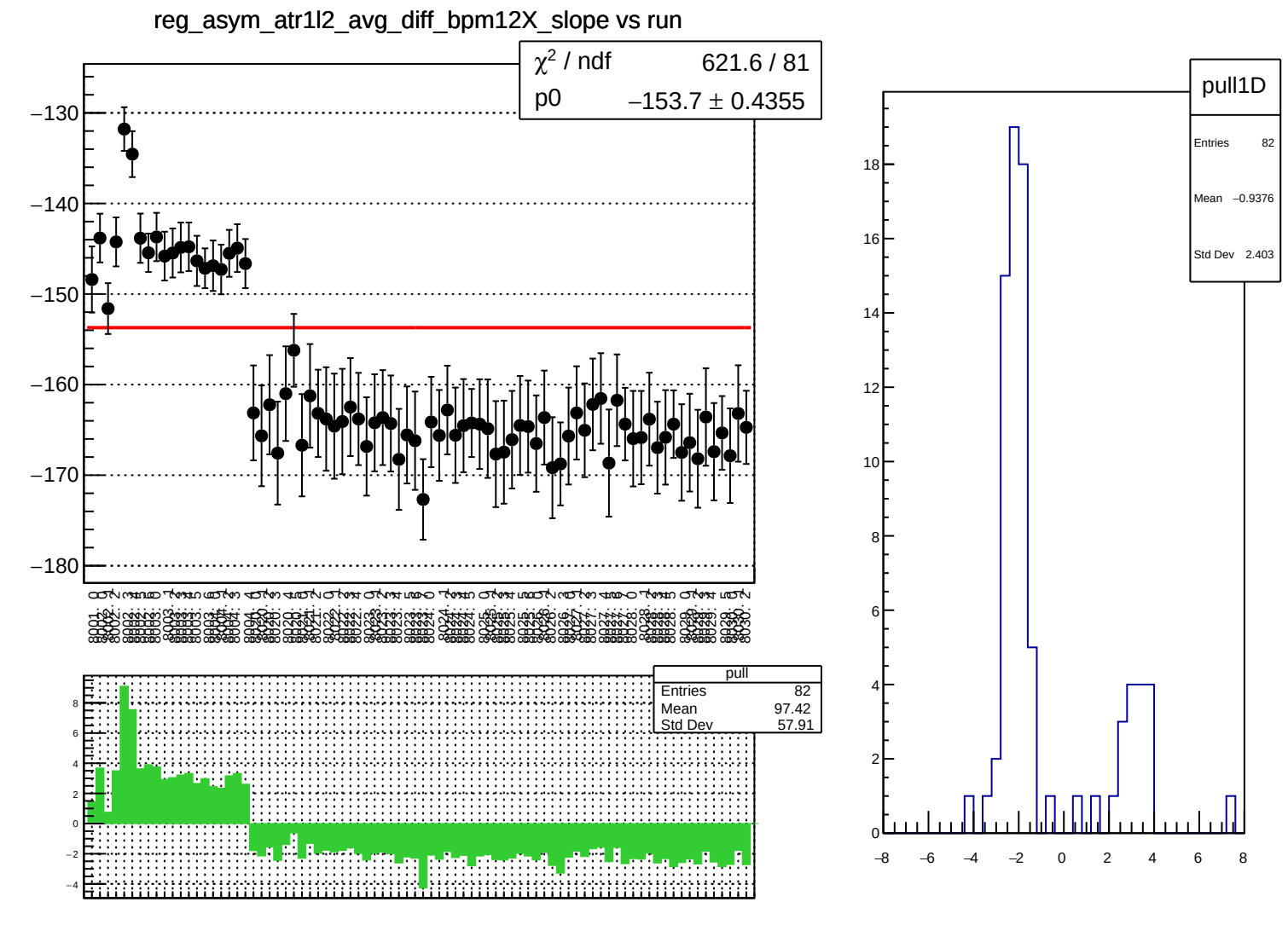

pull1D
Entries 82
Mean −0.006521
Std Dev 0.3291

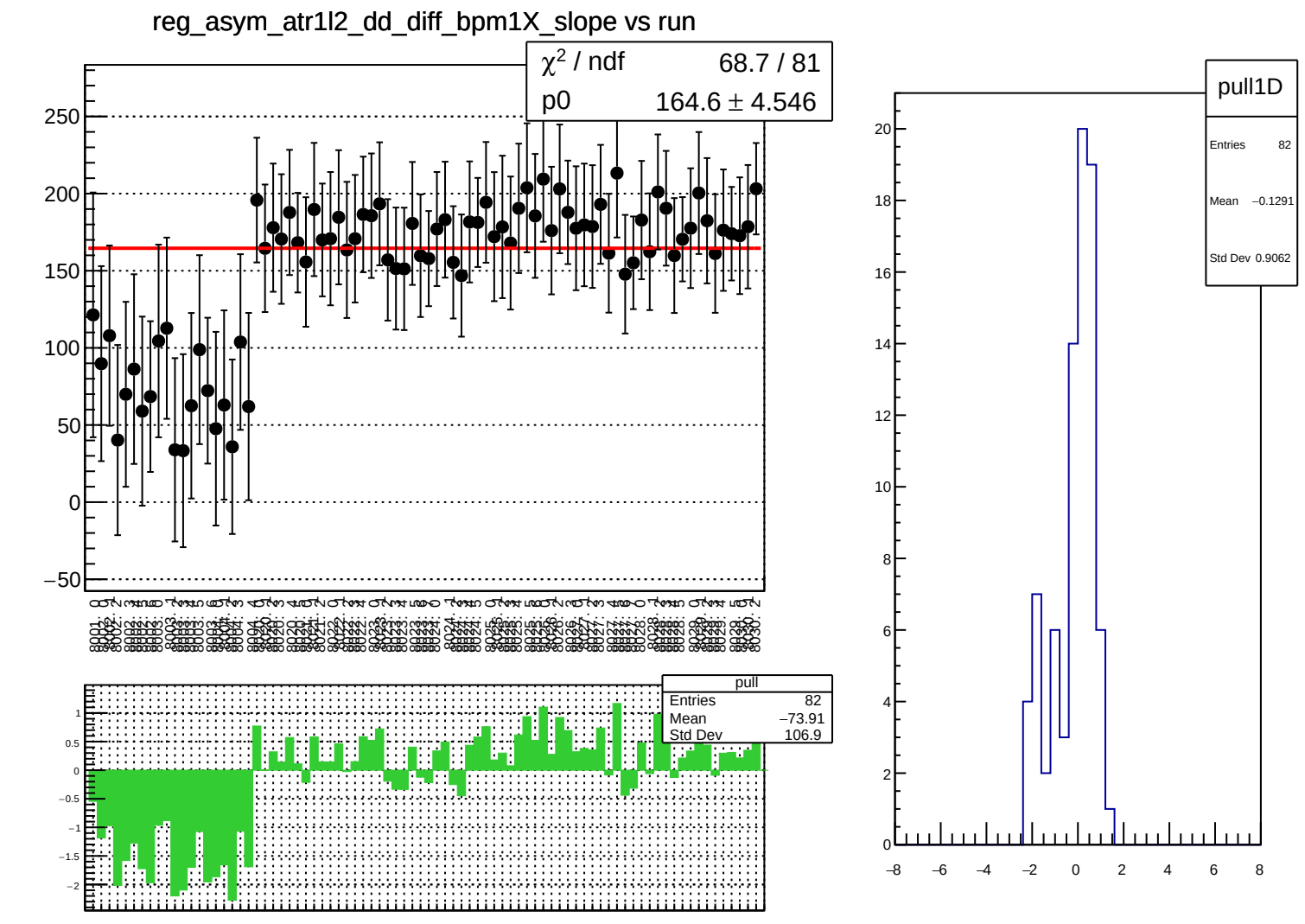

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.15 / 81
p0 164.8 ± 6.034
pull
Entries 82
Mean −95.03
Std Dev 126.1

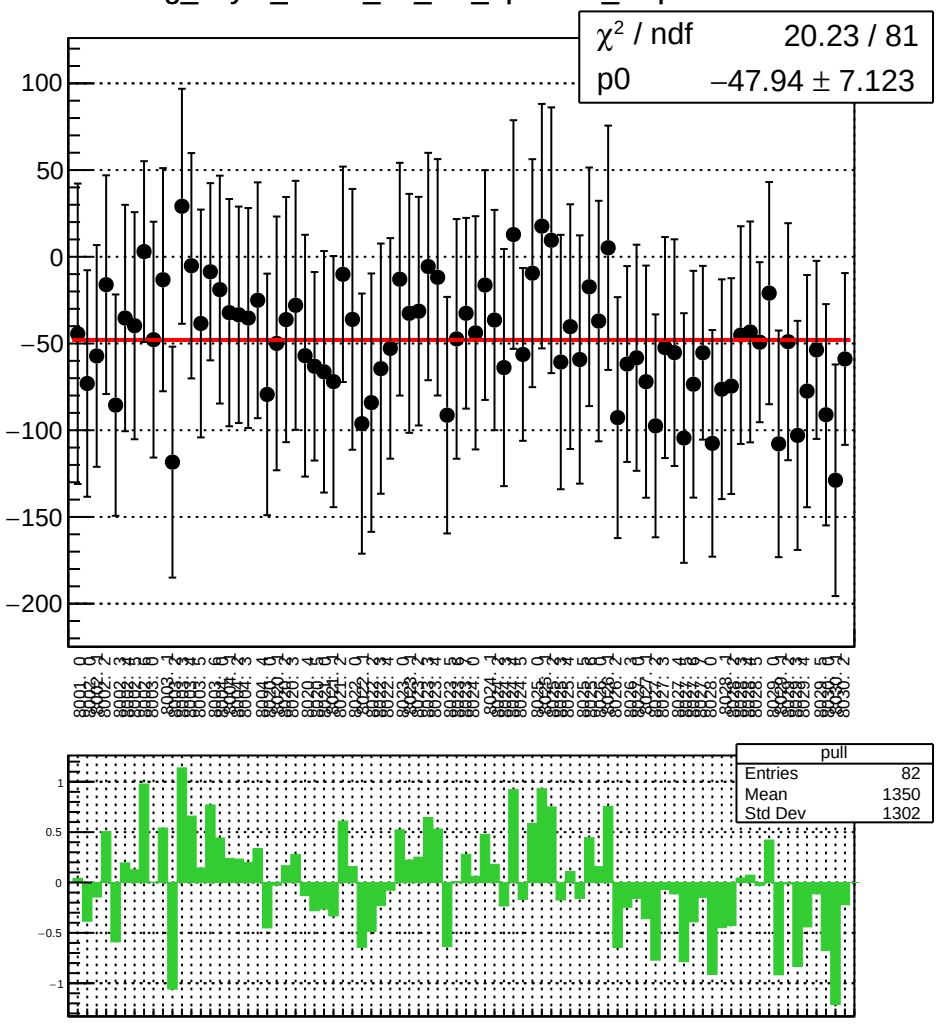

pull1D
Entries 82
Mean −0.08822
Std Dev 0.7848

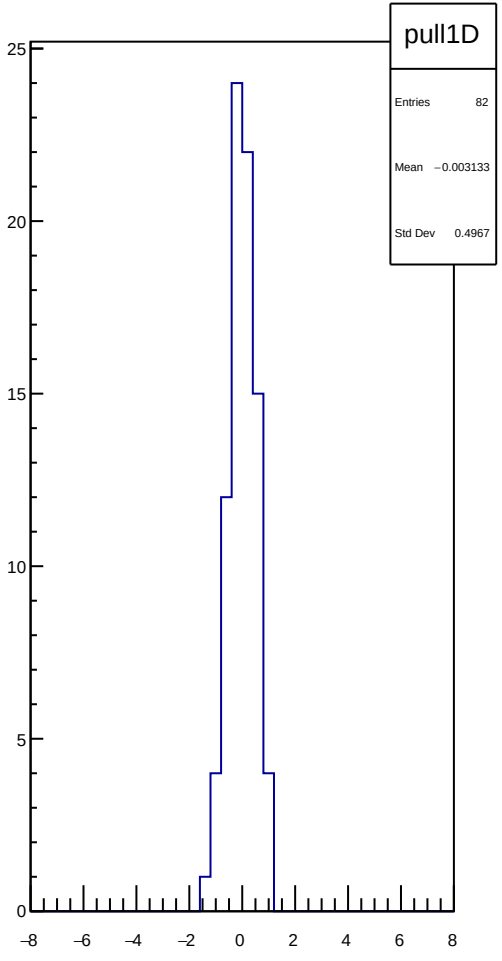

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.894 / 81
p0 7.937 ± 9.753
pull
Entries 82
Mean −222.3
Std Dev 256.8

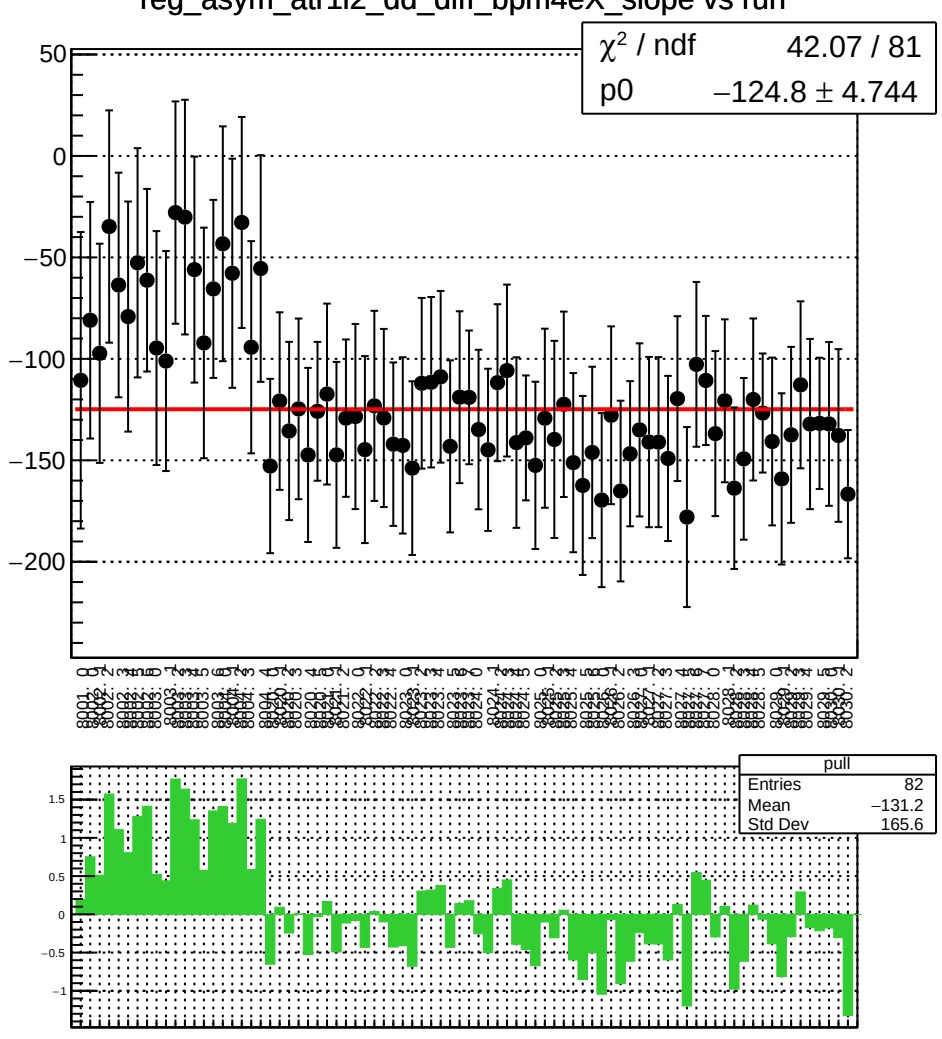

pull1D
Entries 82
Mean 0.008454
Std Dev 0.3292

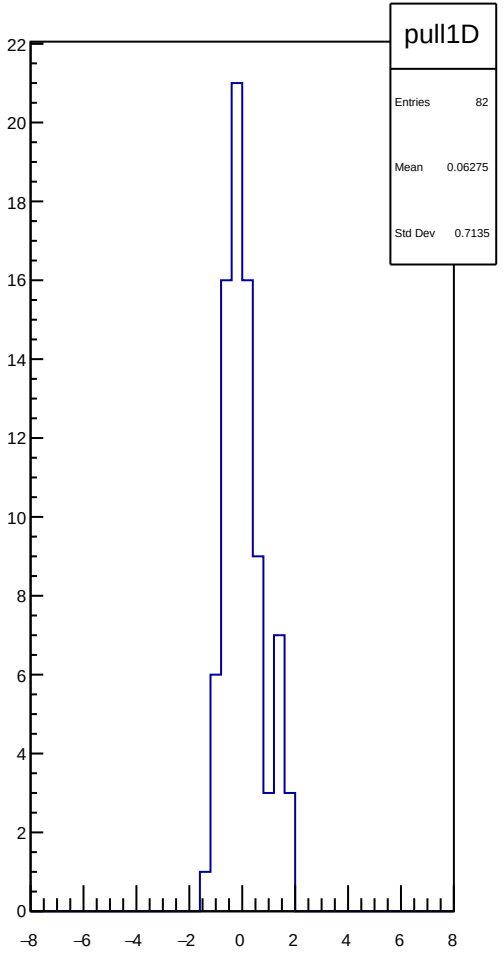

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 621.6 / 81
p0 −153.7 ± 0.4355
−130
−140
−150
−160
−170
−180
pull
Entries 82
Mean 97.42
Std Dev 57.91
pull1D
Entries 82
Mean −0.9376
Std Dev 2.403

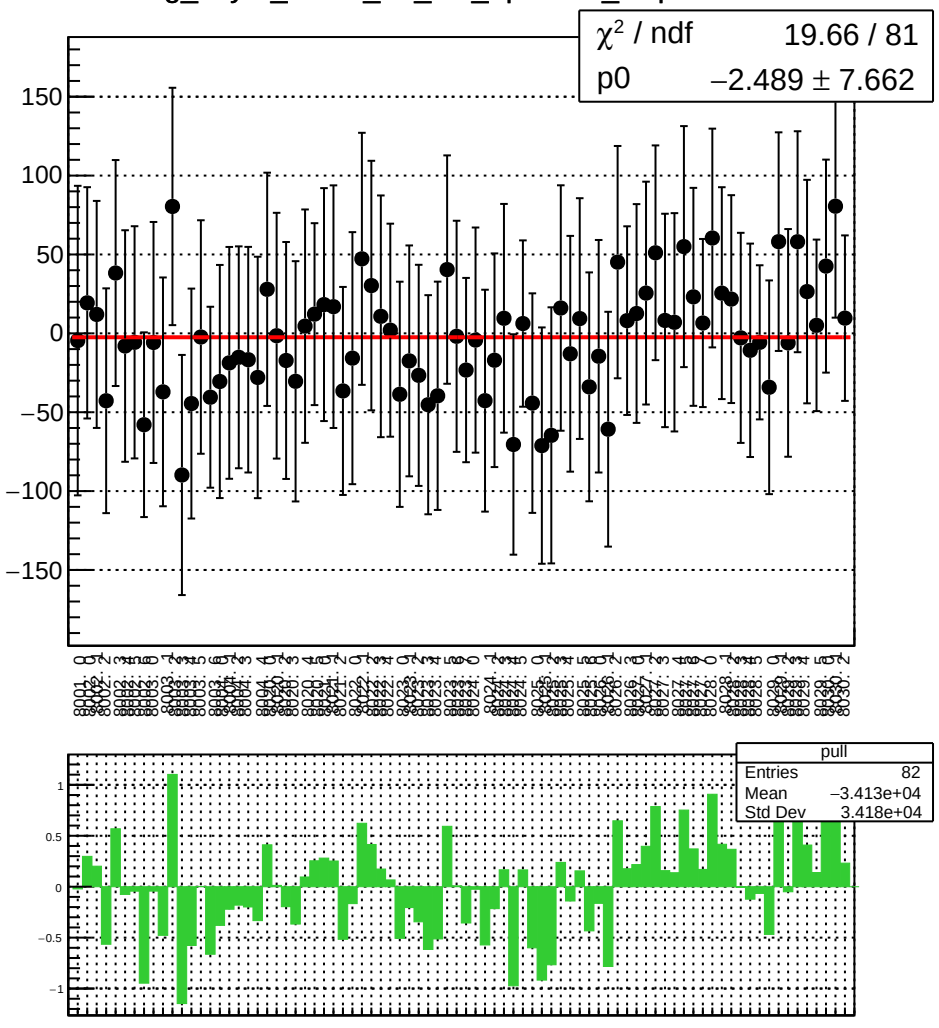

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 68.7 / 81
p0 164.6 ± 4.546
250
200
150
100
50
0
−50
pull
Entries 82
Mean −73.91
Std Dev 106.9
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 82
Mean −0.1291
Std Dev 0.9062
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

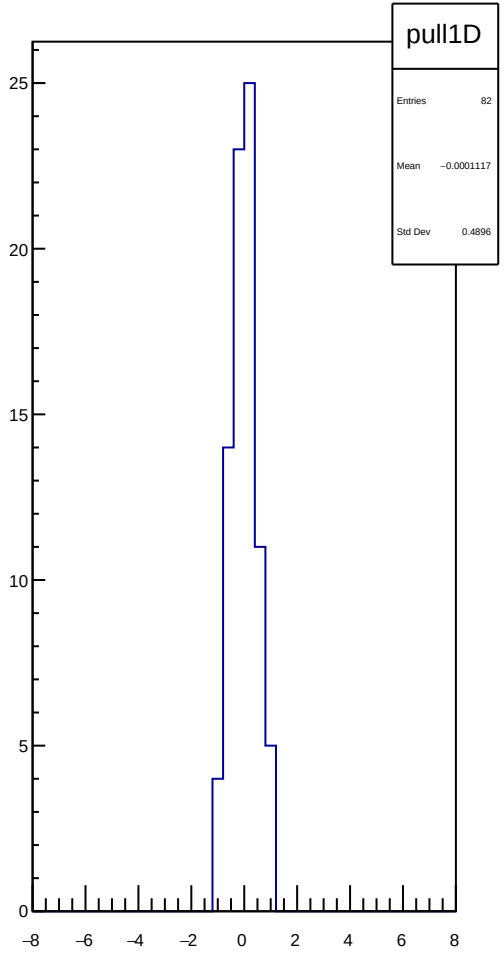

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.23 / 81
p0 −47.94 ± 7.123
pull
Entries 82
Mean 1350
Std Dev 1302

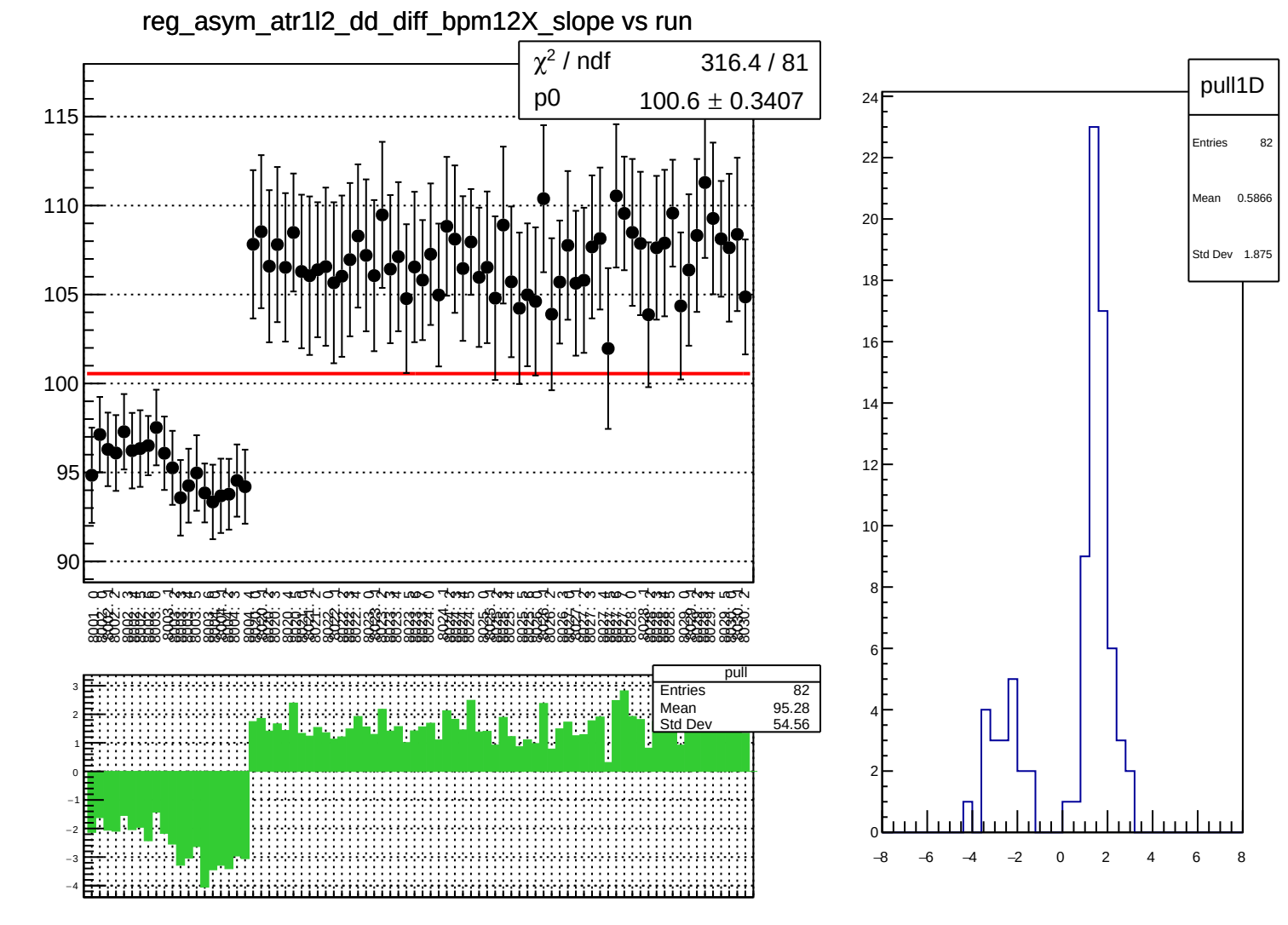

pull1D
Entries 82
Mean −0.003133
Std Dev 0.4967

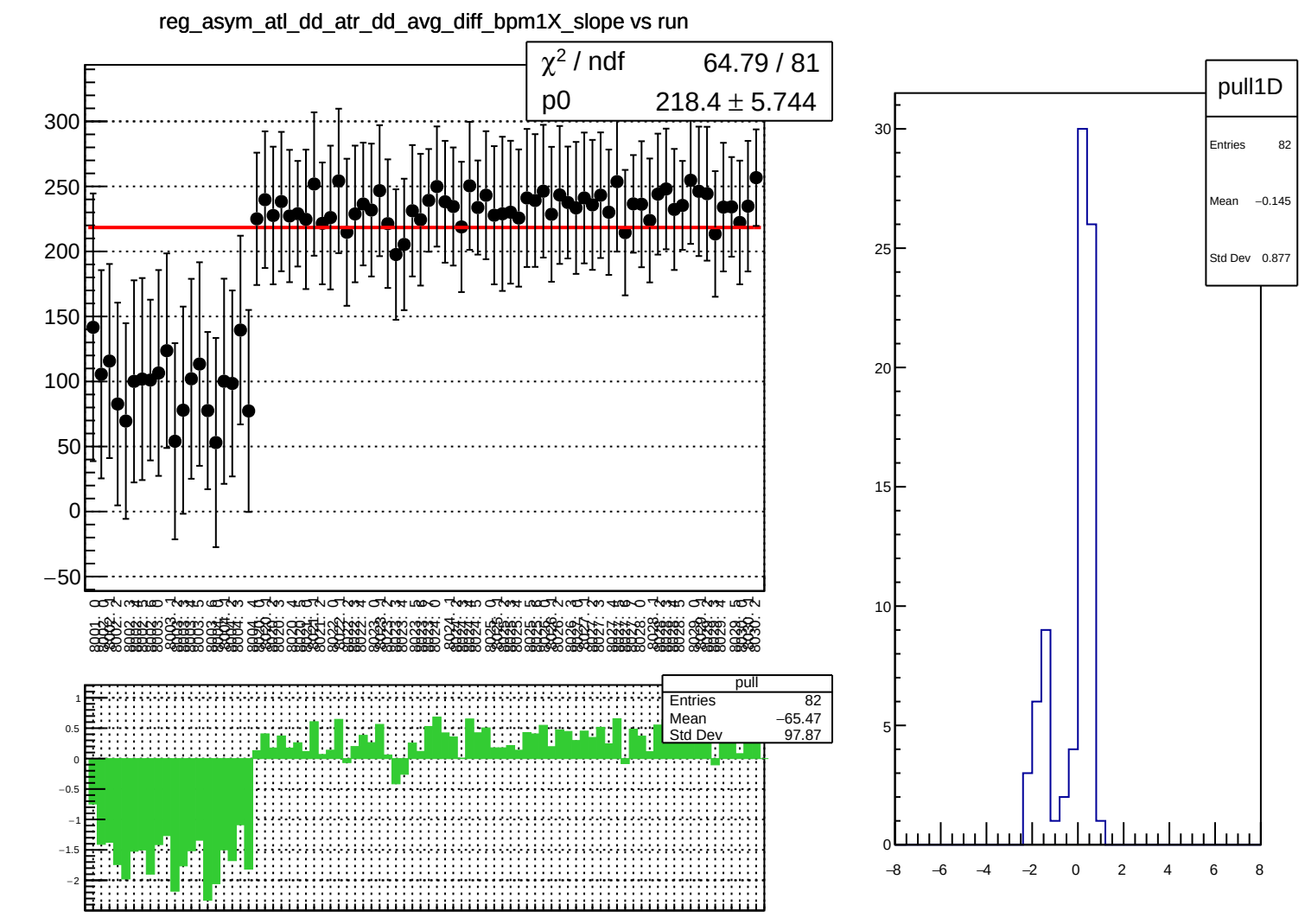

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.07 / 81
p0 −124.8 ± 4.744
pull
Entries 82
Mean −131.2
Std Dev 165.6

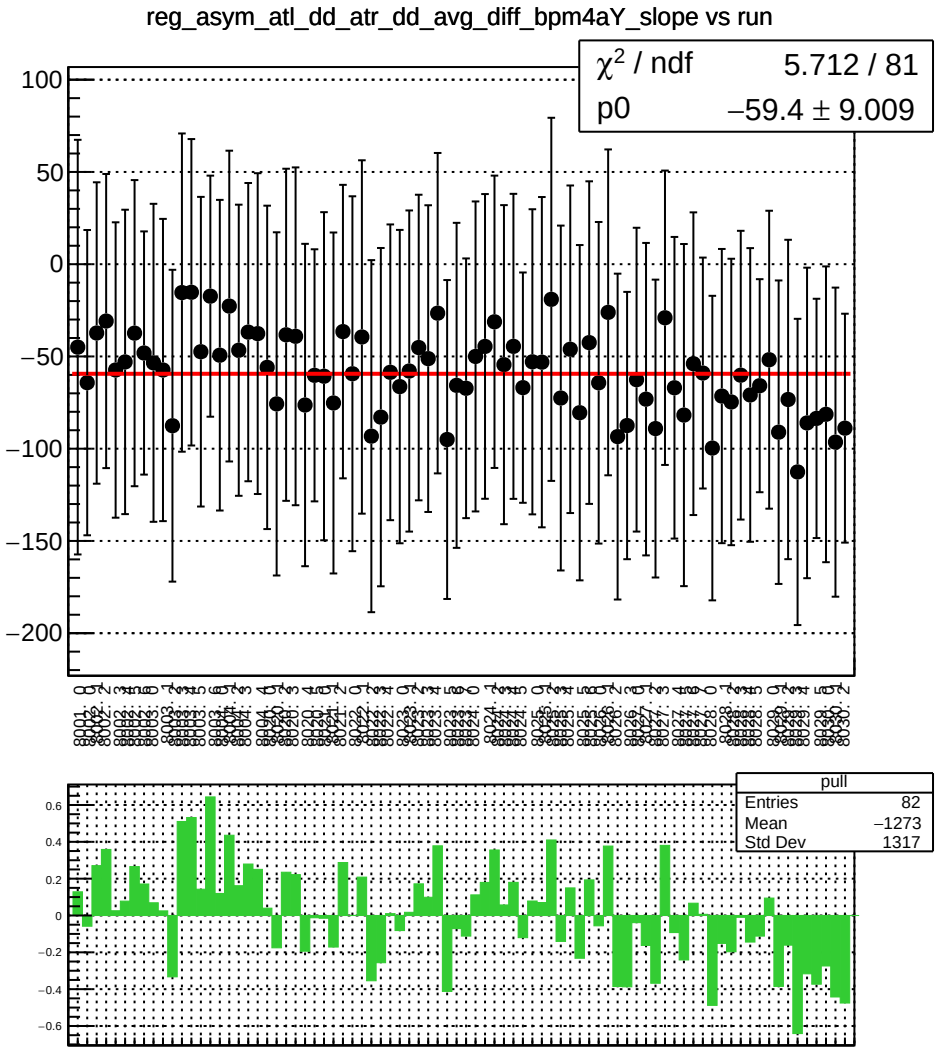

pull1D
Entries 82
Mean 0.06275
Std Dev 0.7135

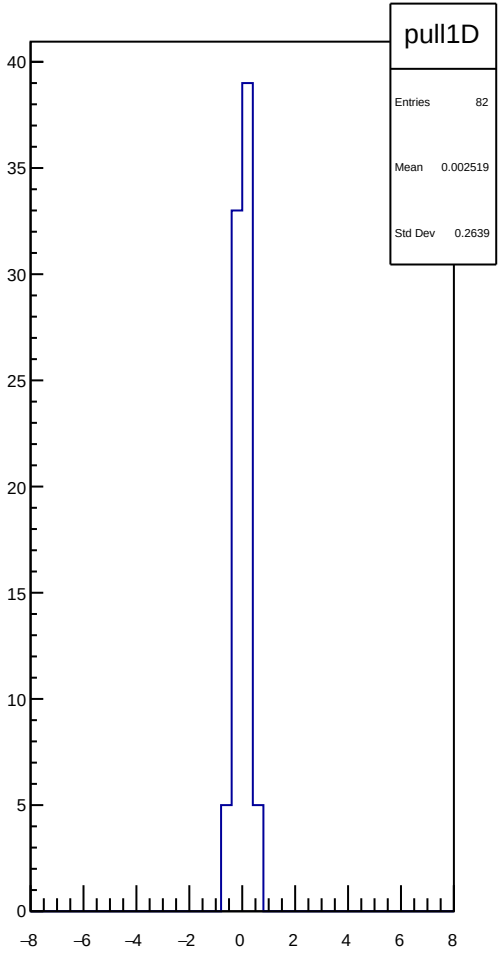

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.66 / 81
p0 −2.489 ± 7.662
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −3.413e+04
Std Dev 3.418e+04
1
0.5
0
−0.5
−1

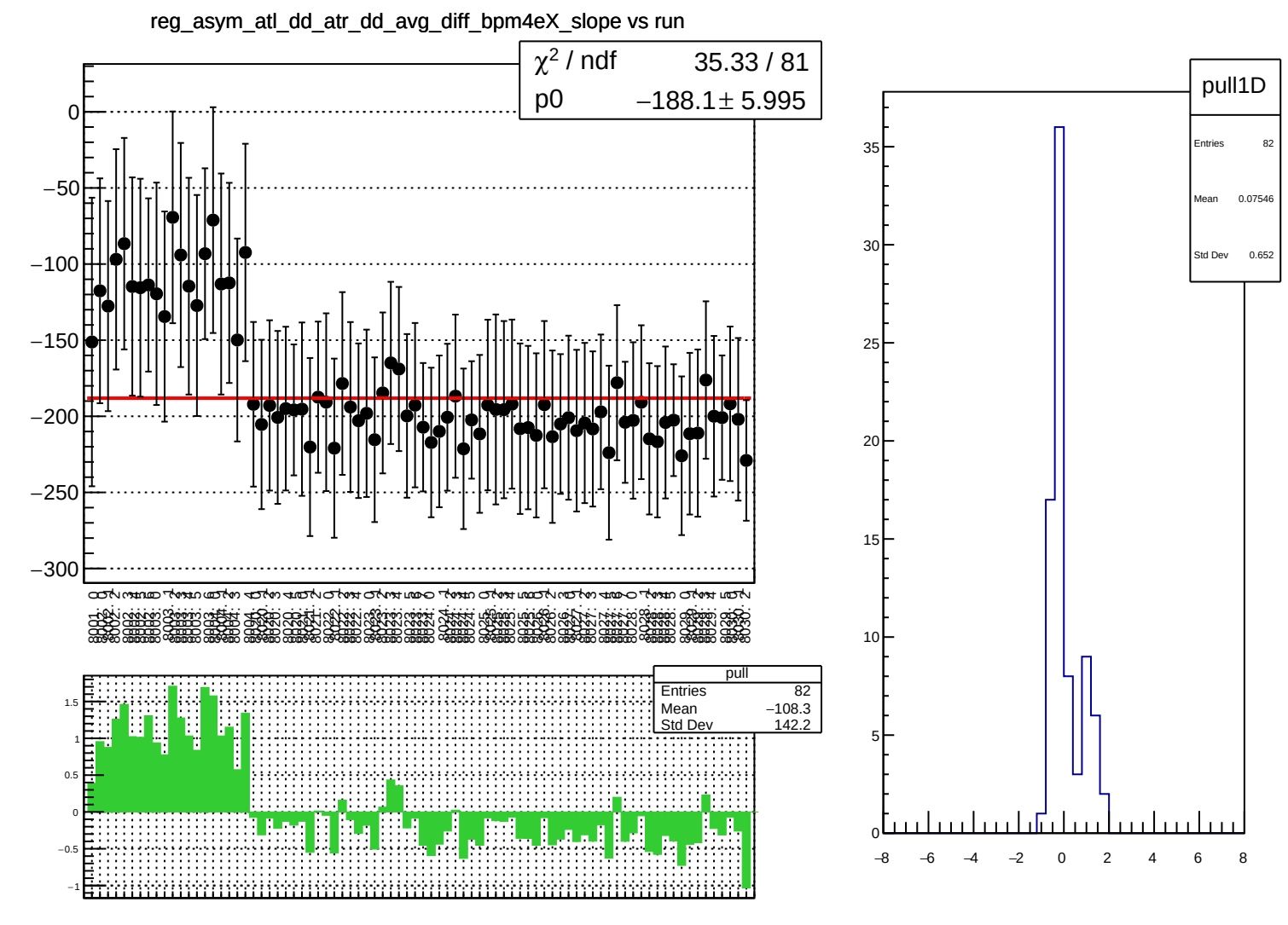

pull1D
Entries 82
Mean −0.0001117
Std Dev 0.4896
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

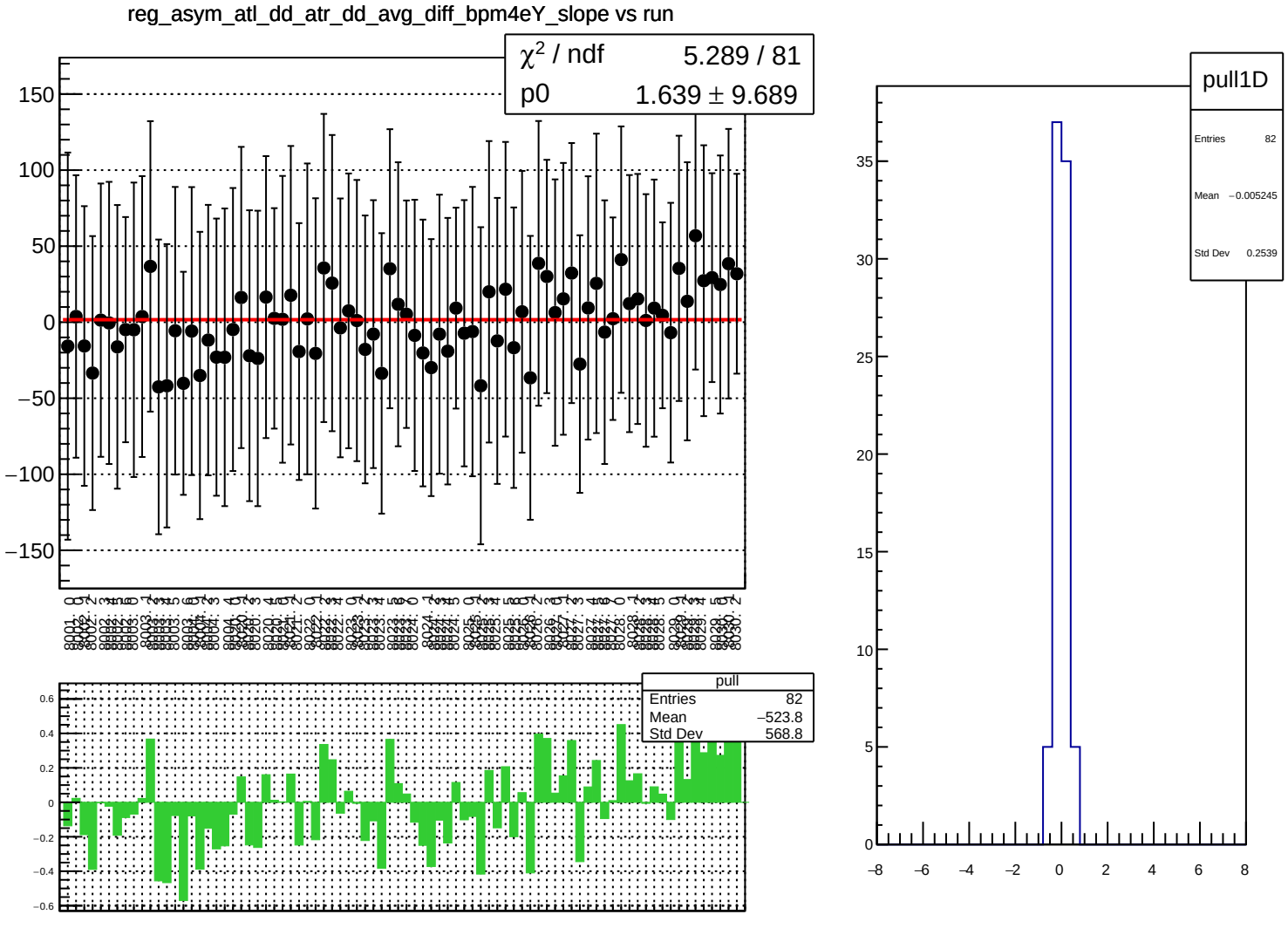

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 316.4 / 81
p0 100.6 ± 0.3407
pull
Entries 82
Mean 95.28
Std Dev 54.56
pull1D
Entries 82
Mean 0.5866
Std Dev 1.875

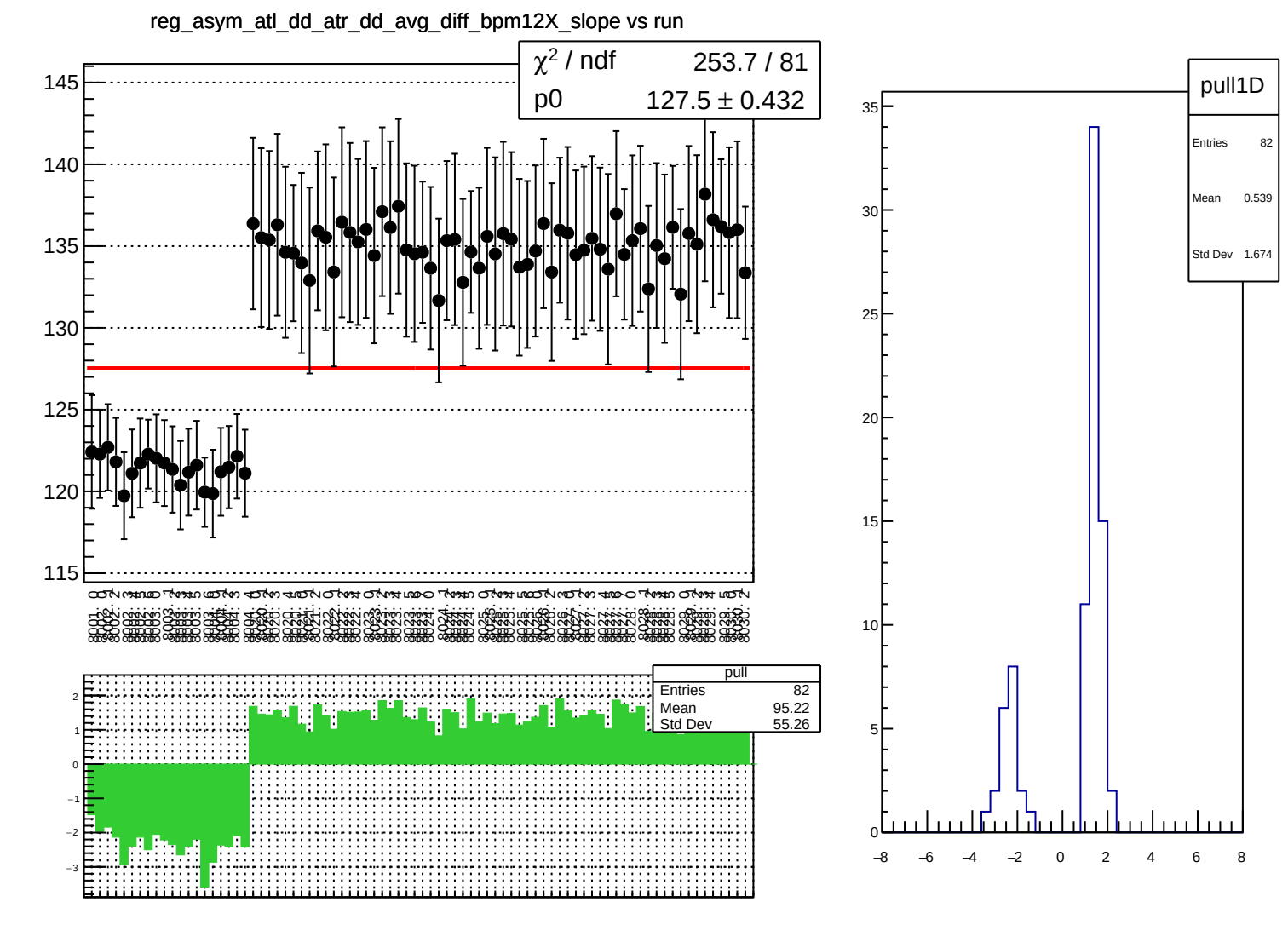

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 64.79 / 81
p0 218.4 ± 5.744
pull
Entries 82
Mean −65.47
Std Dev 97.87
pull1D
Entries 82
Mean −0.145
Std Dev 0.877

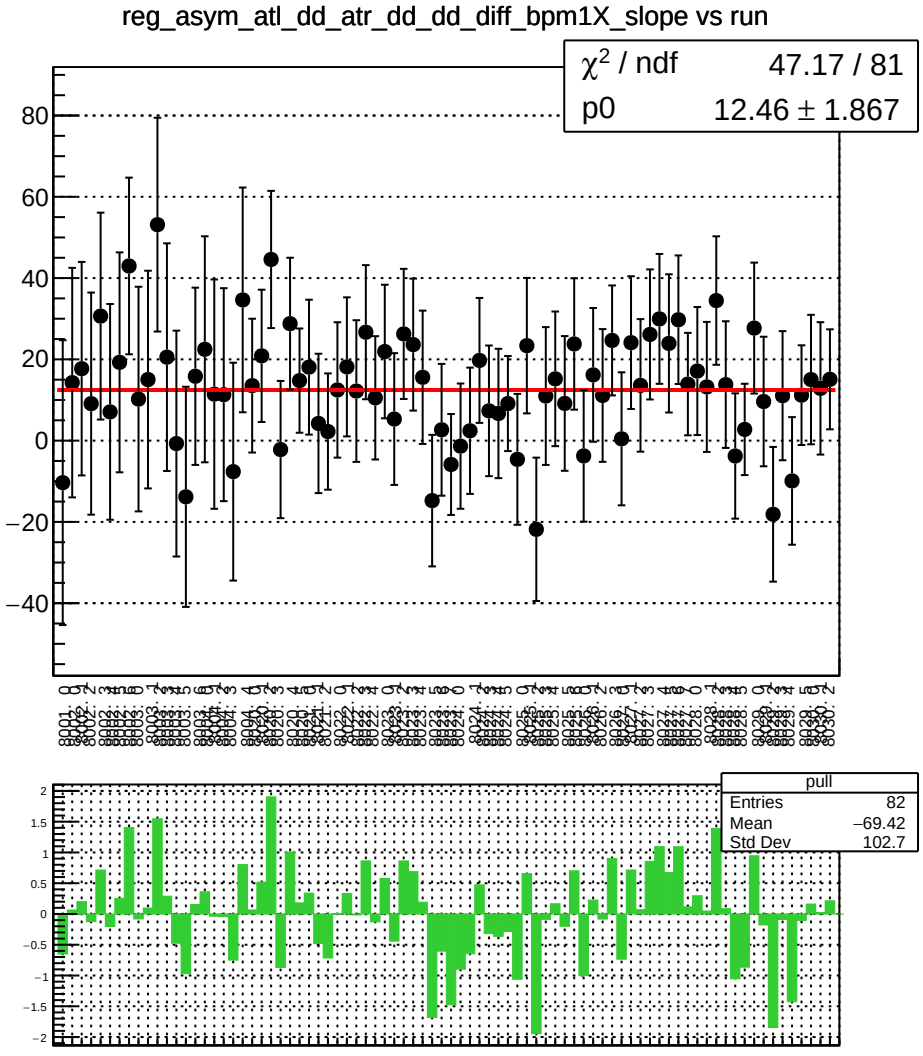

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.712 / 81
p0 −59.4 ± 9.009
pull
Entries 82
Mean −1273
Std Dev 1317

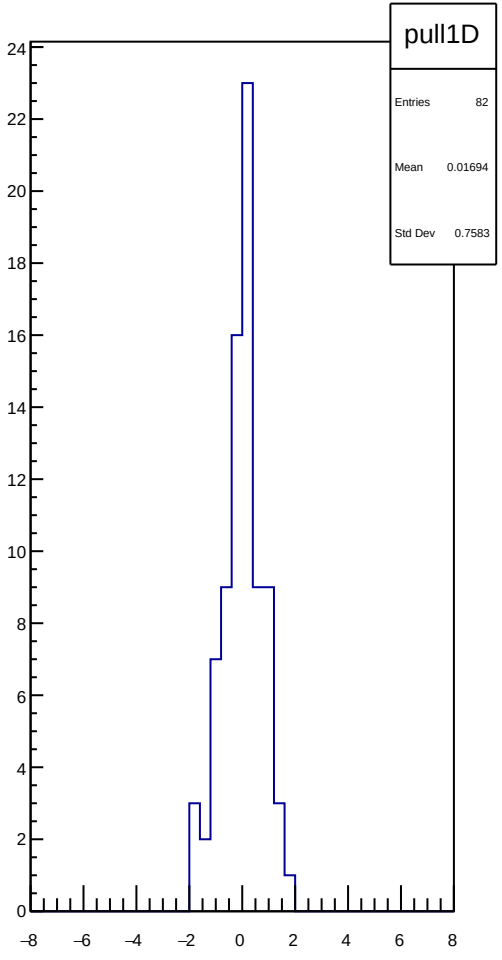

pull1D
Entries 82
Mean 0.002519
Std Dev 0.2639

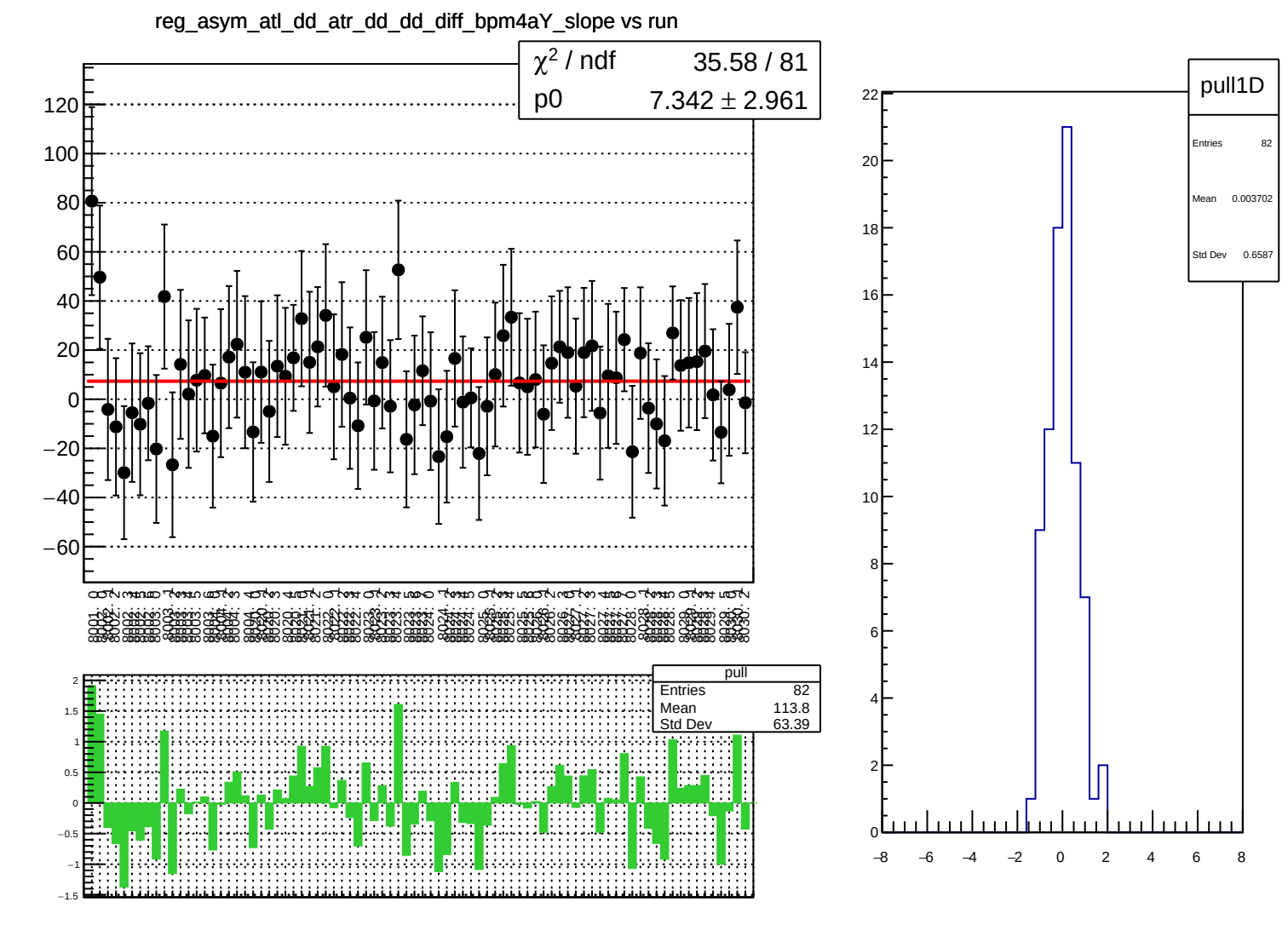

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.33 / 81
p0 −188.1 ± 5.995
pull
Entries 82
Mean −108.3
Std Dev 142.2
pull1D
Entries 82
Mean 0.07546
Std Dev 0.652

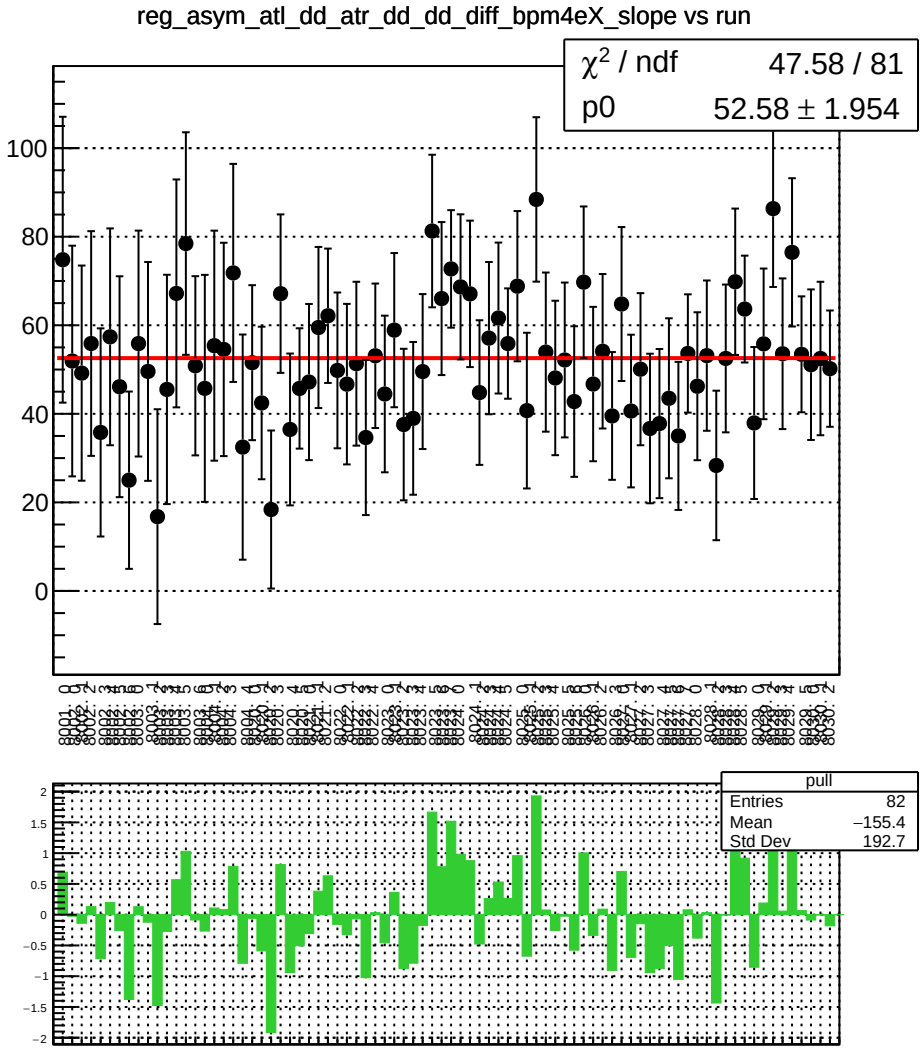

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.289 / 81
p0 1.639 ± 9.689
150
100
50
0
−50
−100
−150
pull
Entries 82
Mean −523.8
Std Dev 568.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 82
Mean −0.005245
Std Dev 0.2539
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

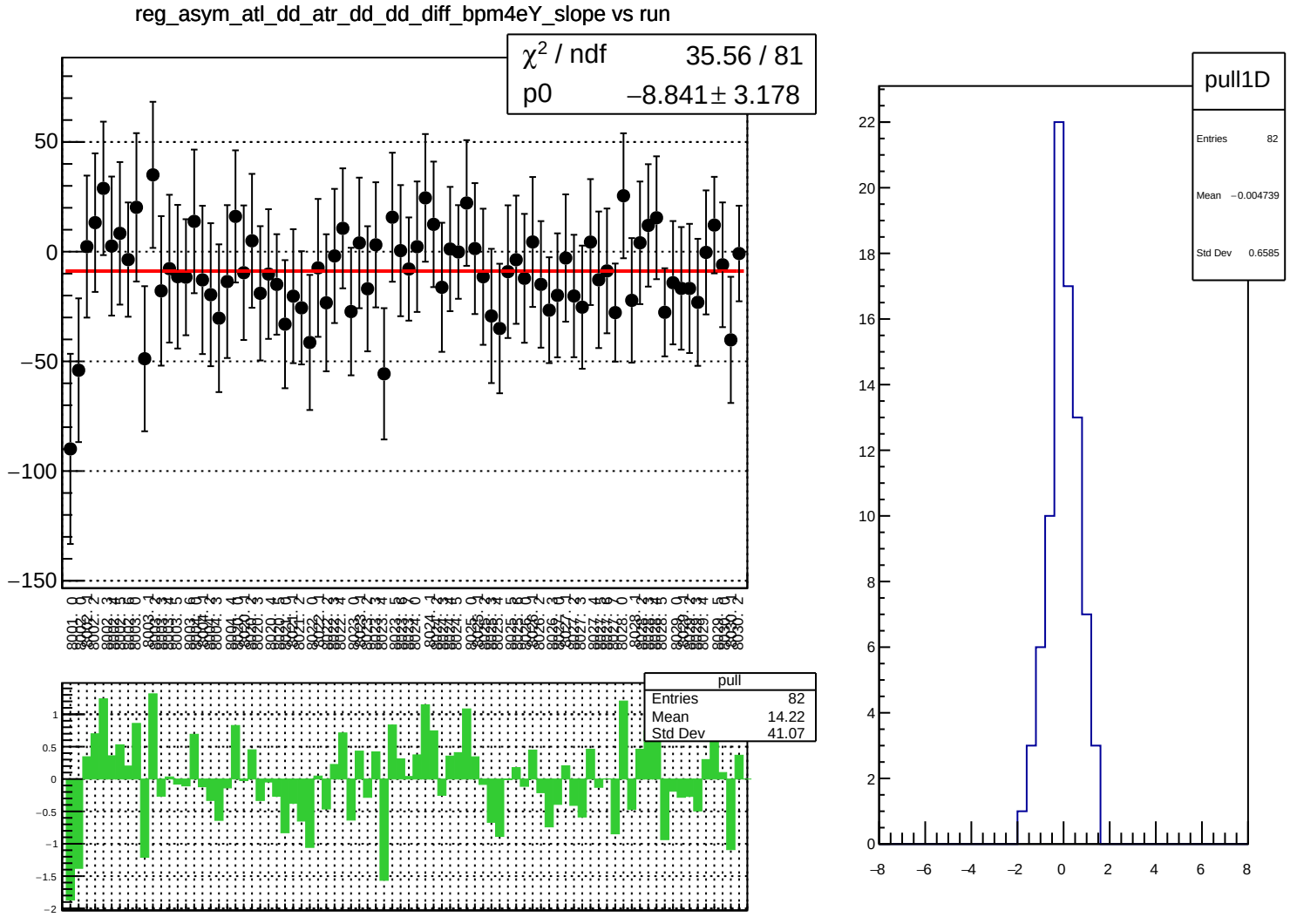

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 253.7 / 81
p0 127.5 ± 0.432
pull
Entries 82
Mean 95.22
Std Dev 55.26
pull1D
Entries 82
Mean 0.539
Std Dev 1.674

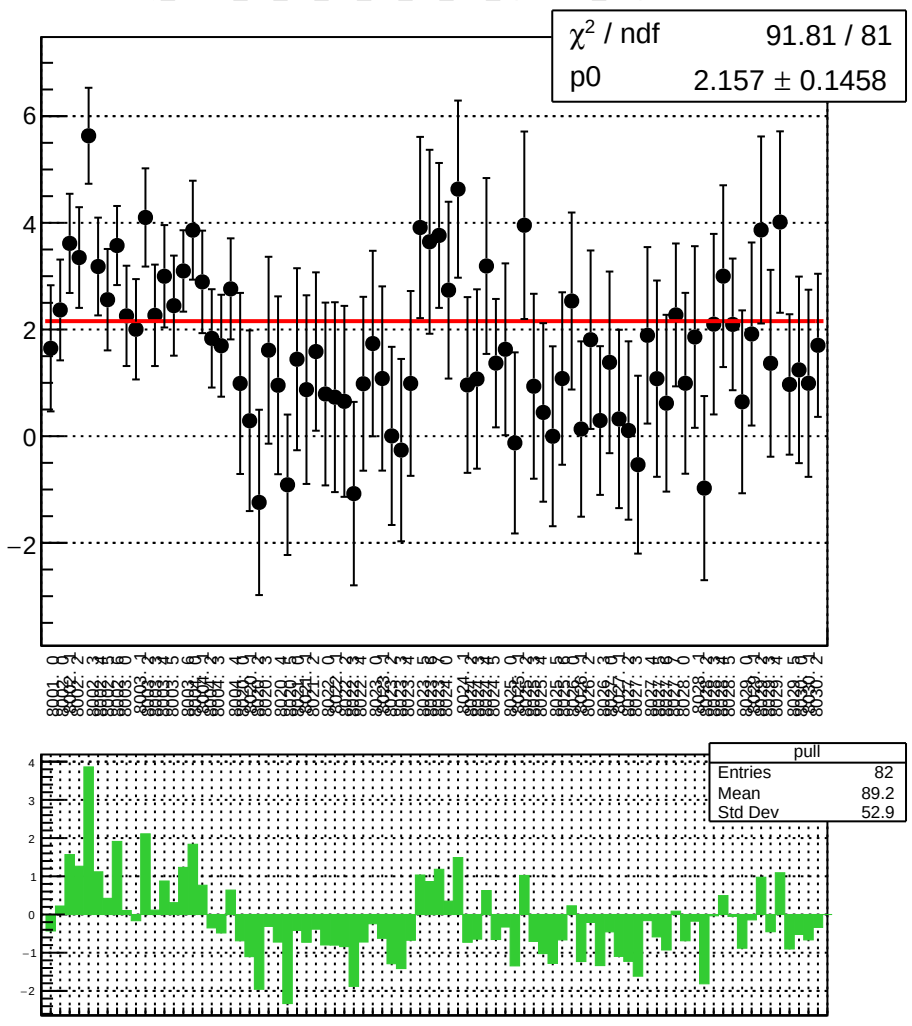

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 47.17 / 81
p0 12.46 ± 1.867
pull
Entries 82
Mean −69.42
Std Dev 102.7

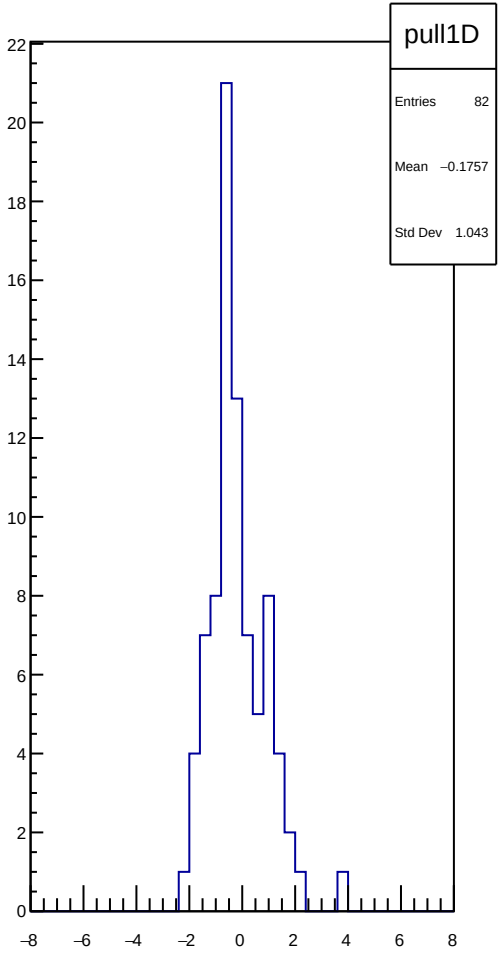

pull1D
Entries 82
Mean 0.01694
Std Dev 0.7583

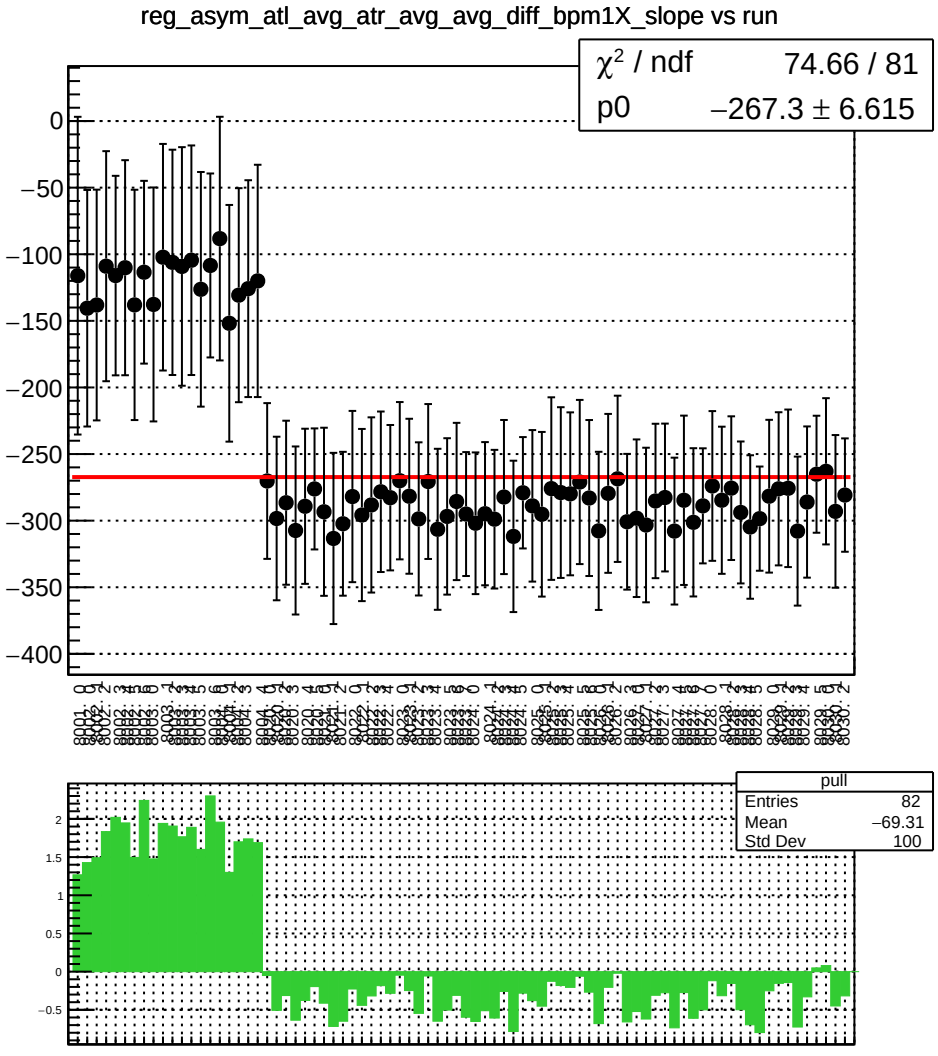

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.58 / 81
p0 7.342 ± 2.961
pull
Entries 82
Mean 113.8
Std Dev 63.39
pull1D
Entries 82
Mean 0.003702
Std Dev 0.6587

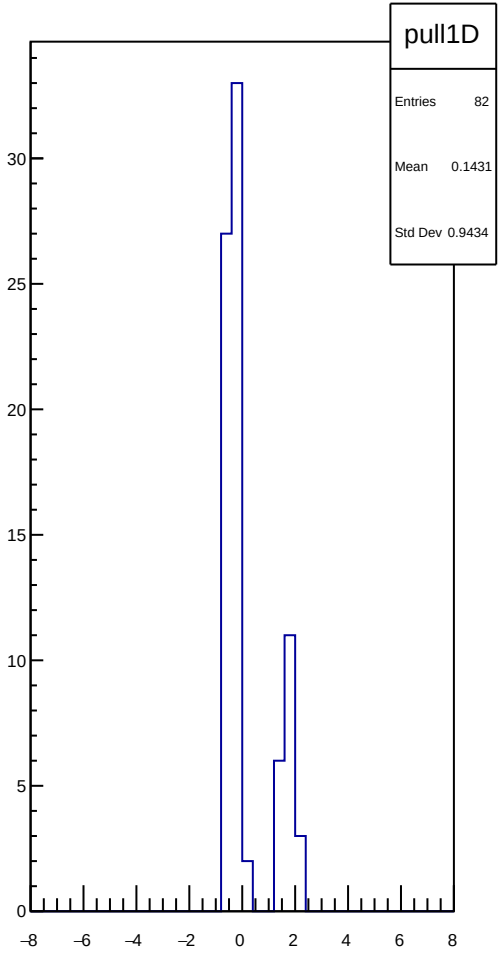

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.58 / 81
p0 52.58 ± 1.954
pull
Entries 82
Mean −155.4
Std Dev 192.7
pull1D
Entries 82
Mean −0.01011
Std Dev 0.7617

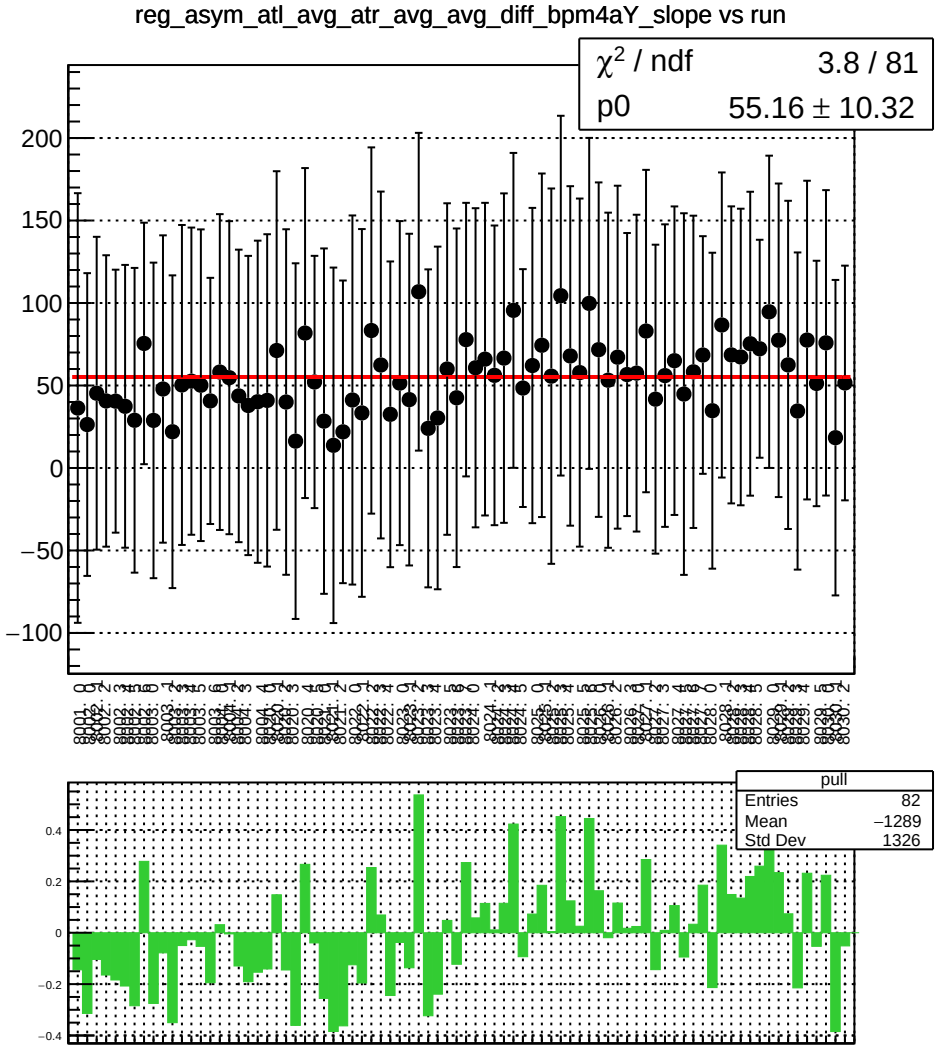

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.56 / 81
p0 −8.841 ± 3.178
pull
Entries 82
Mean 14.22
Std Dev 41.07
pull1D
Entries 82
Mean −0.004739
Std Dev 0.6585

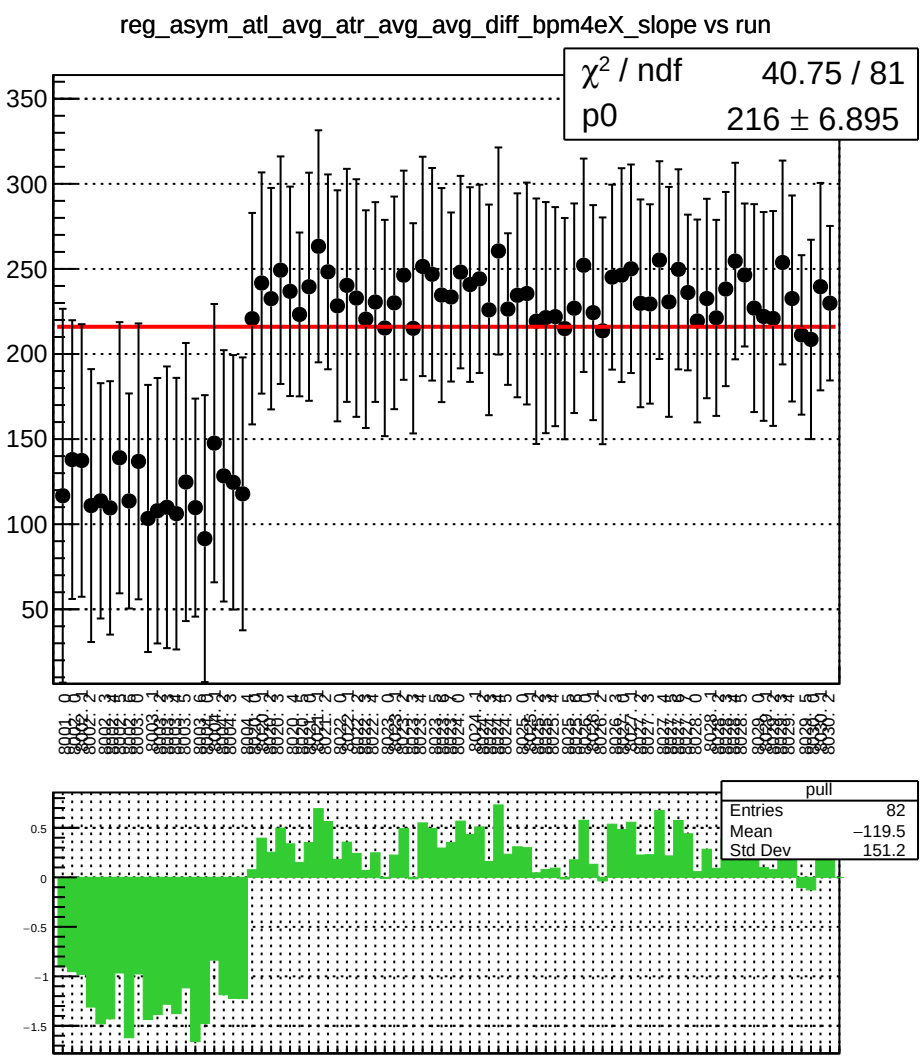

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 91.81 / 81
p0 2.157 ± 0.1458
pull
Entries 82
Mean 89.2
Std Dev 52.9

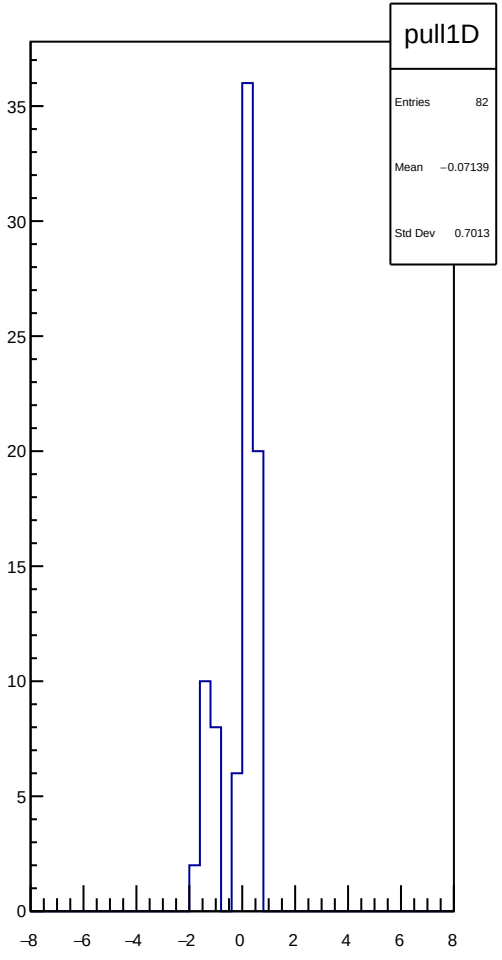

pull1D
Entries 82
Mean −0.1757
Std Dev 1.043

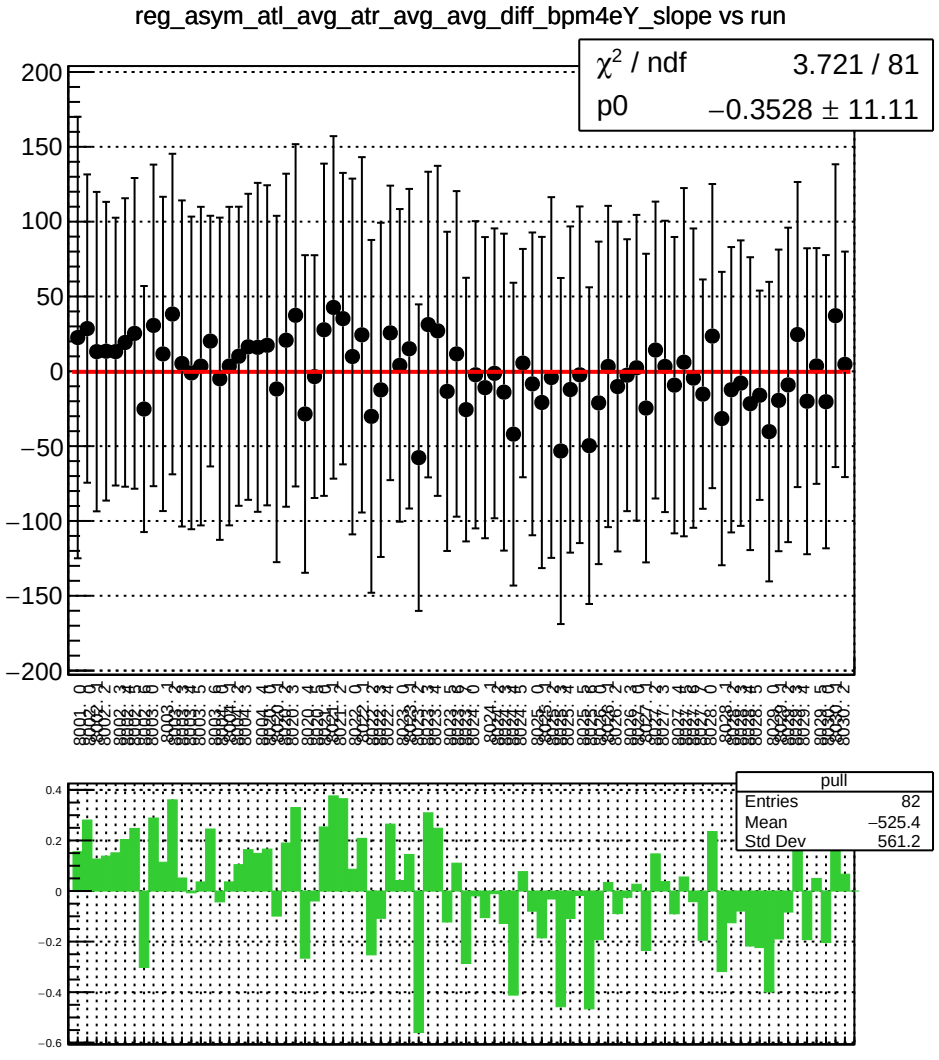

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 74.66 / 81
p0 −267.3 ± 6.615
pull
Entries 82
Mean −69.31
Std Dev 100

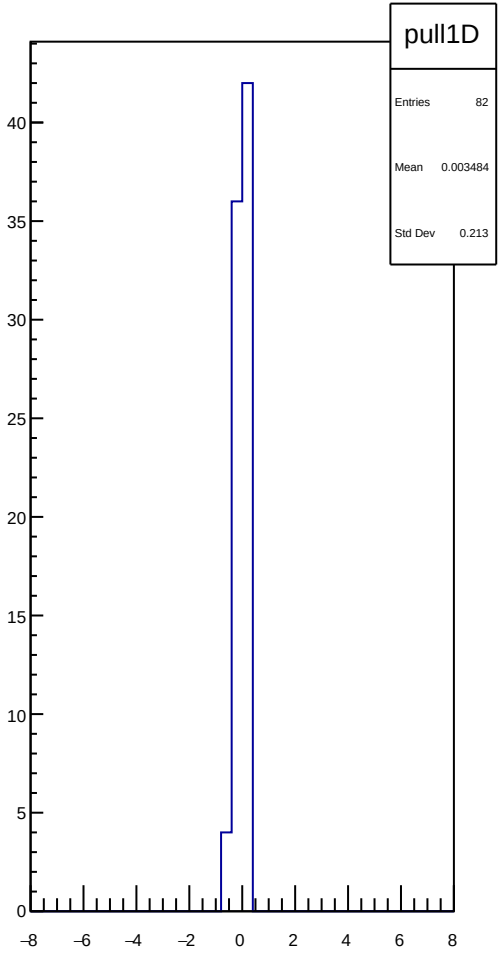

pull1D
Entries 82
Mean 0.1431
Std Dev 0.9434

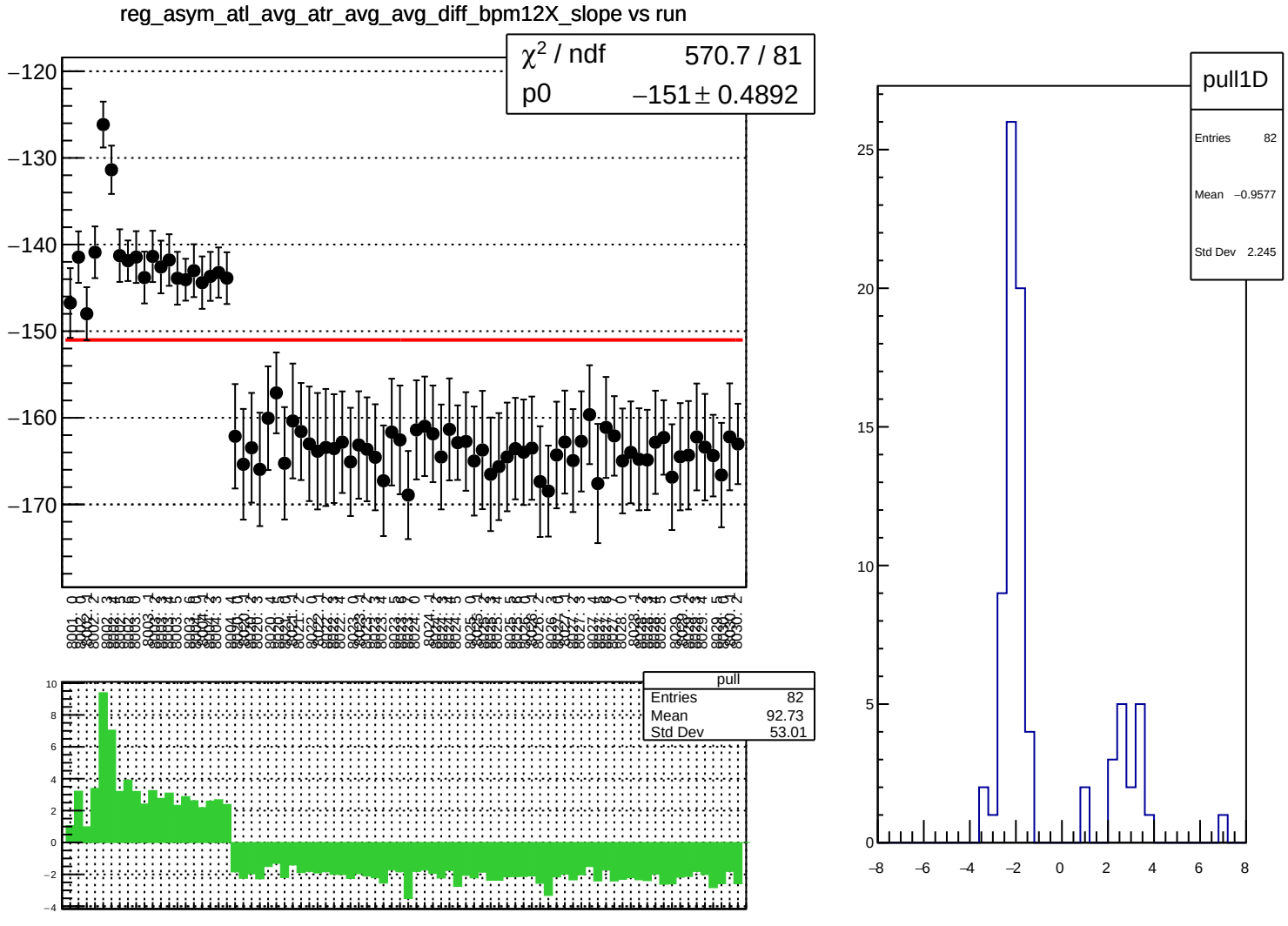

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.8 / 81
p0 55.16 ± 10.32
pull
Entries 82
Mean −1289
Std Dev 1326
pull1D
Entries 82
Mean −0.001621
Std Dev 0.2153

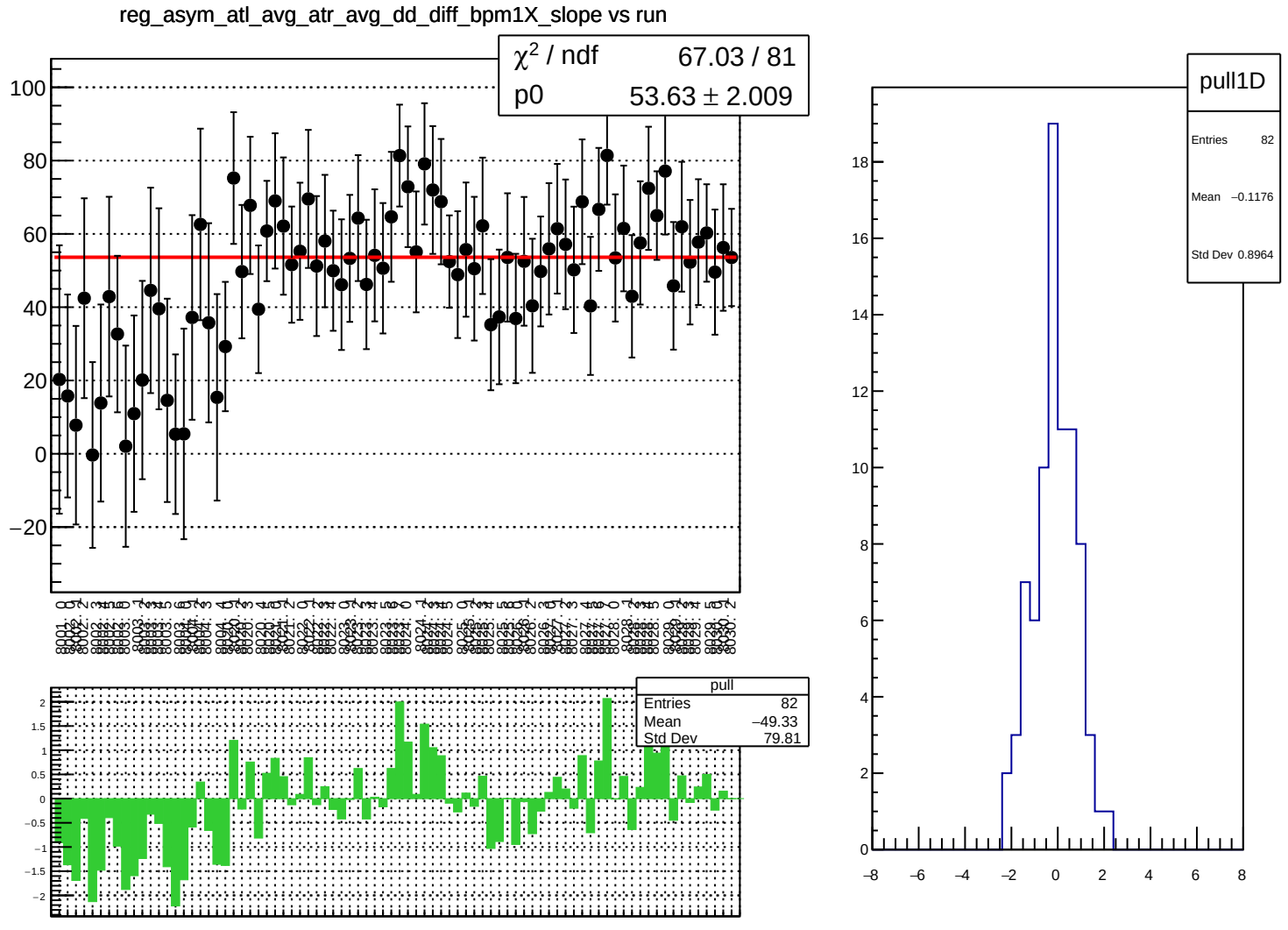

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.75 / 81
p0 216 ± 6.895
pull
Entries 82
Mean −119.5
Std Dev 151.2

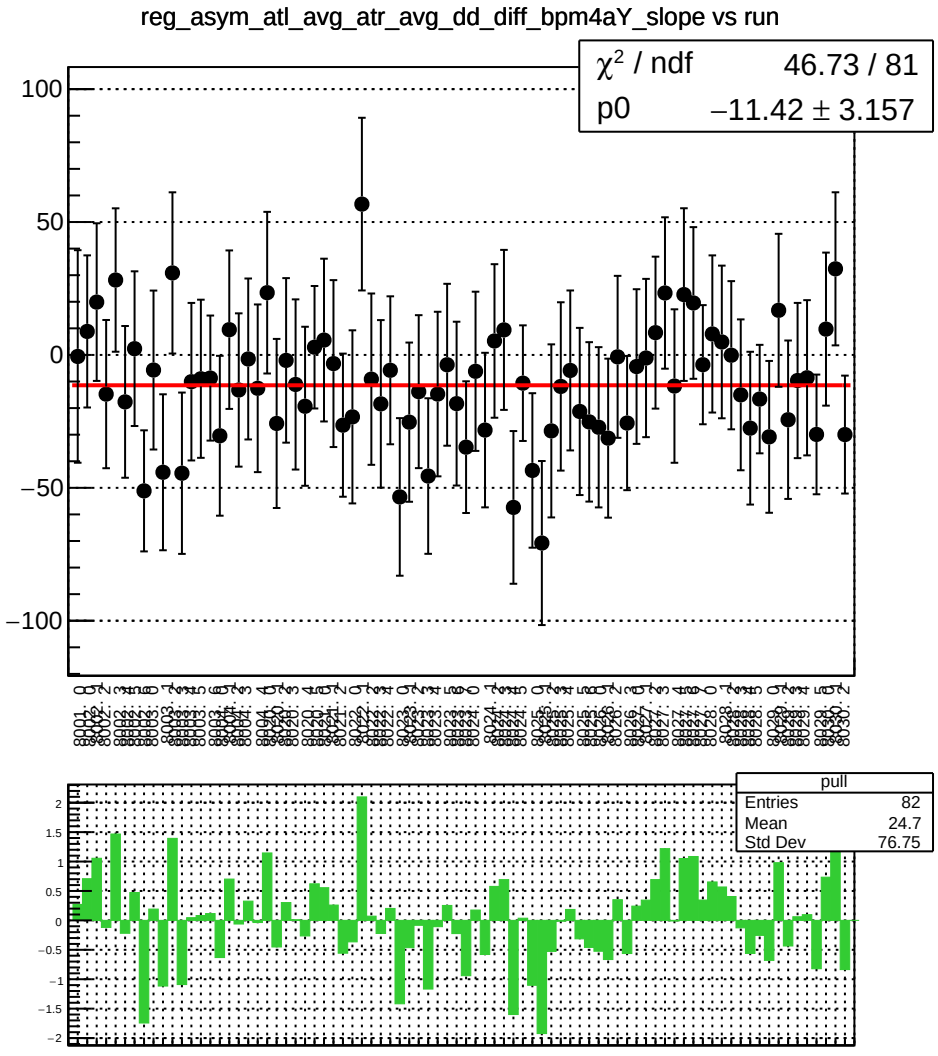

pull1D
Entries 82
Mean −0.07139
Std Dev 0.7013

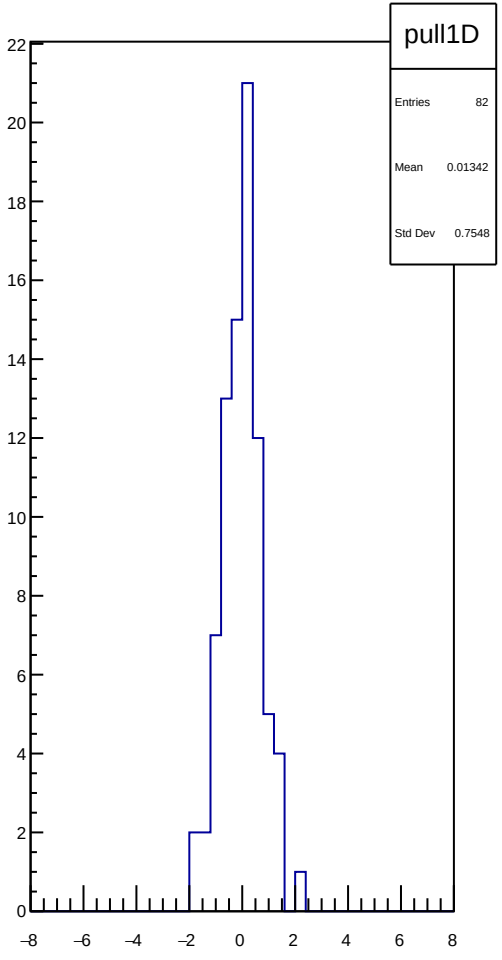

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.721 / 81
p0 −0.3528 ± 11.11
pull
Entries 82
Mean −525.4
Std Dev 561.2

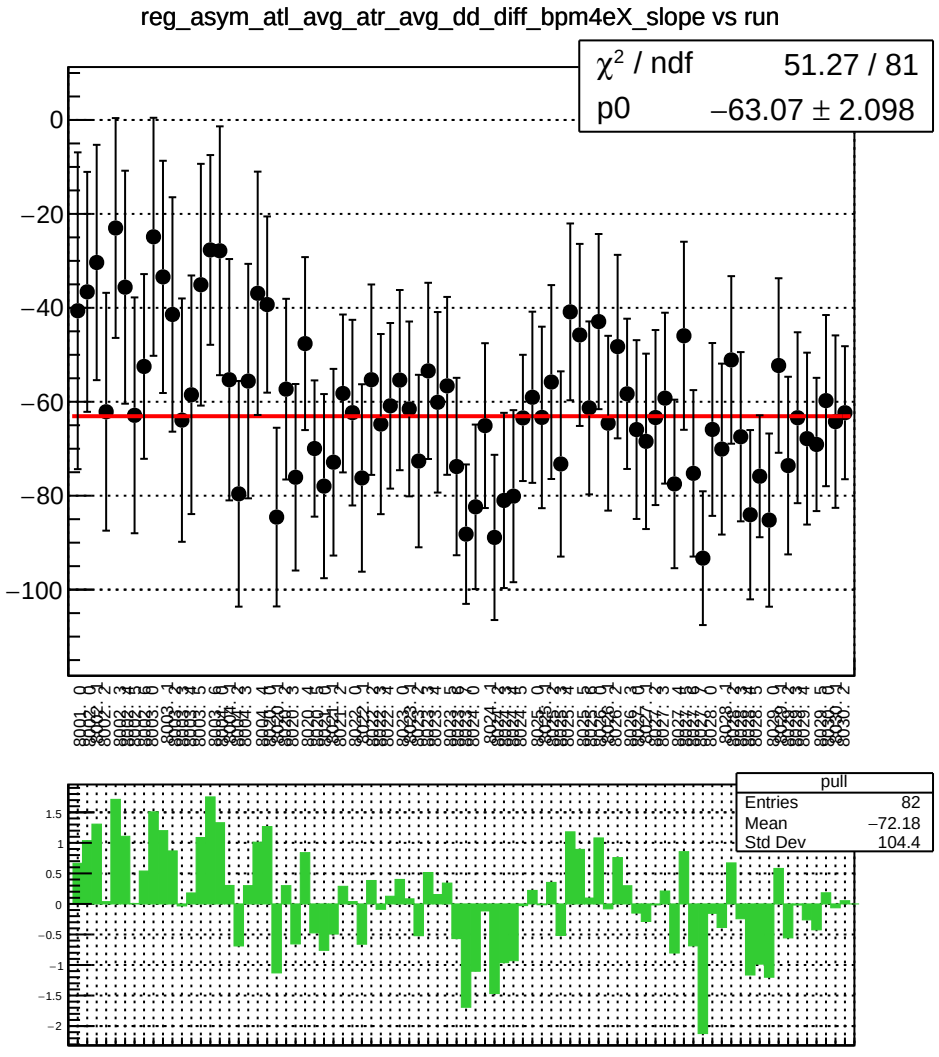

pull1D
Entries 82
Mean 0.003484
Std Dev 0.213

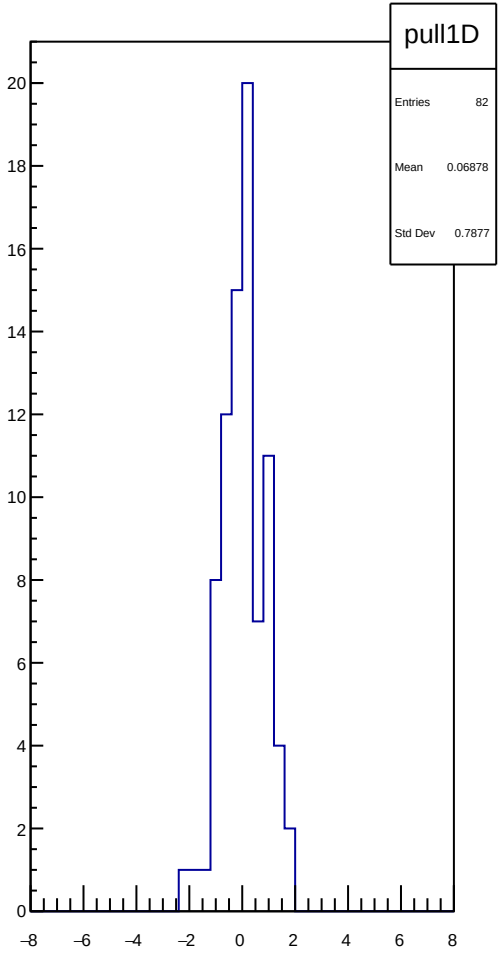

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 570.7 / 81
p0 −151 ± 0.4892
−120
−130
−140
−150
−160
−170
pull
Entries 82
Mean 92.73
Std Dev 53.01
pull1D
Entries 82
Mean −0.9577
Std Dev 2.245

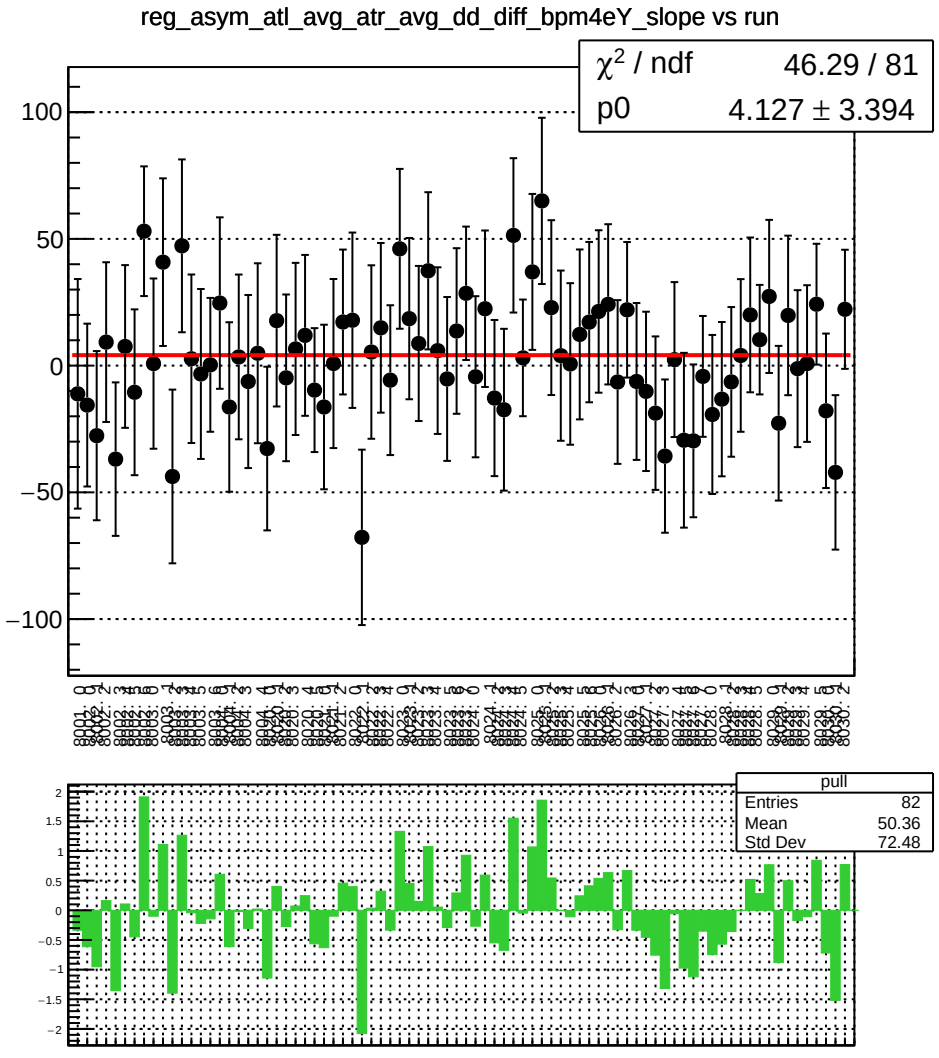

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 67.03 / 81
p0 53.63 ± 2.009
pull
Entries 82
Mean −49.33
Std Dev 79.81
pull1D
Entries 82
Mean −0.1176
Std Dev 0.8964

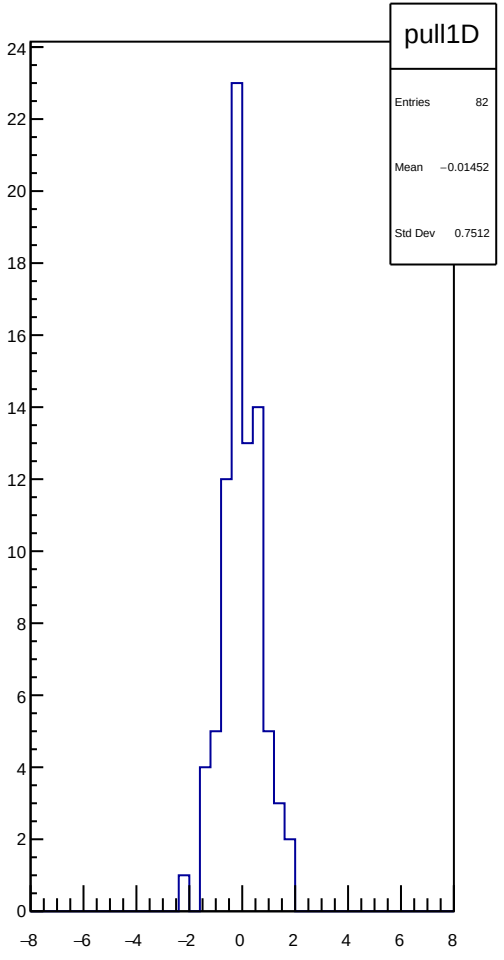

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 46.73 / 81
p0 −11.42 ± 3.157
pull
Entries 82
Mean 24.7
Std Dev 76.75

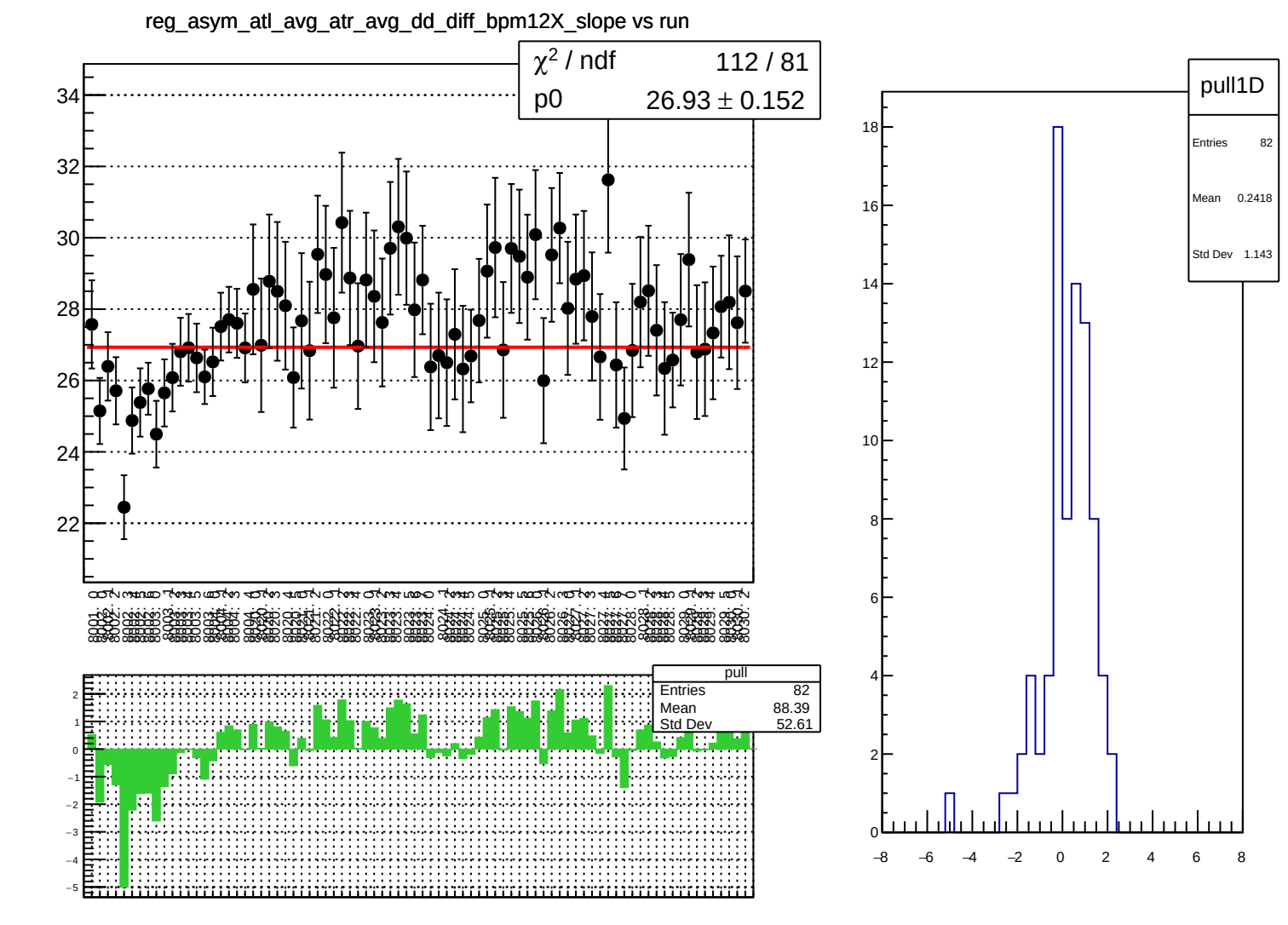

pull1D
Entries 82
Mean 0.01342
Std Dev 0.7548

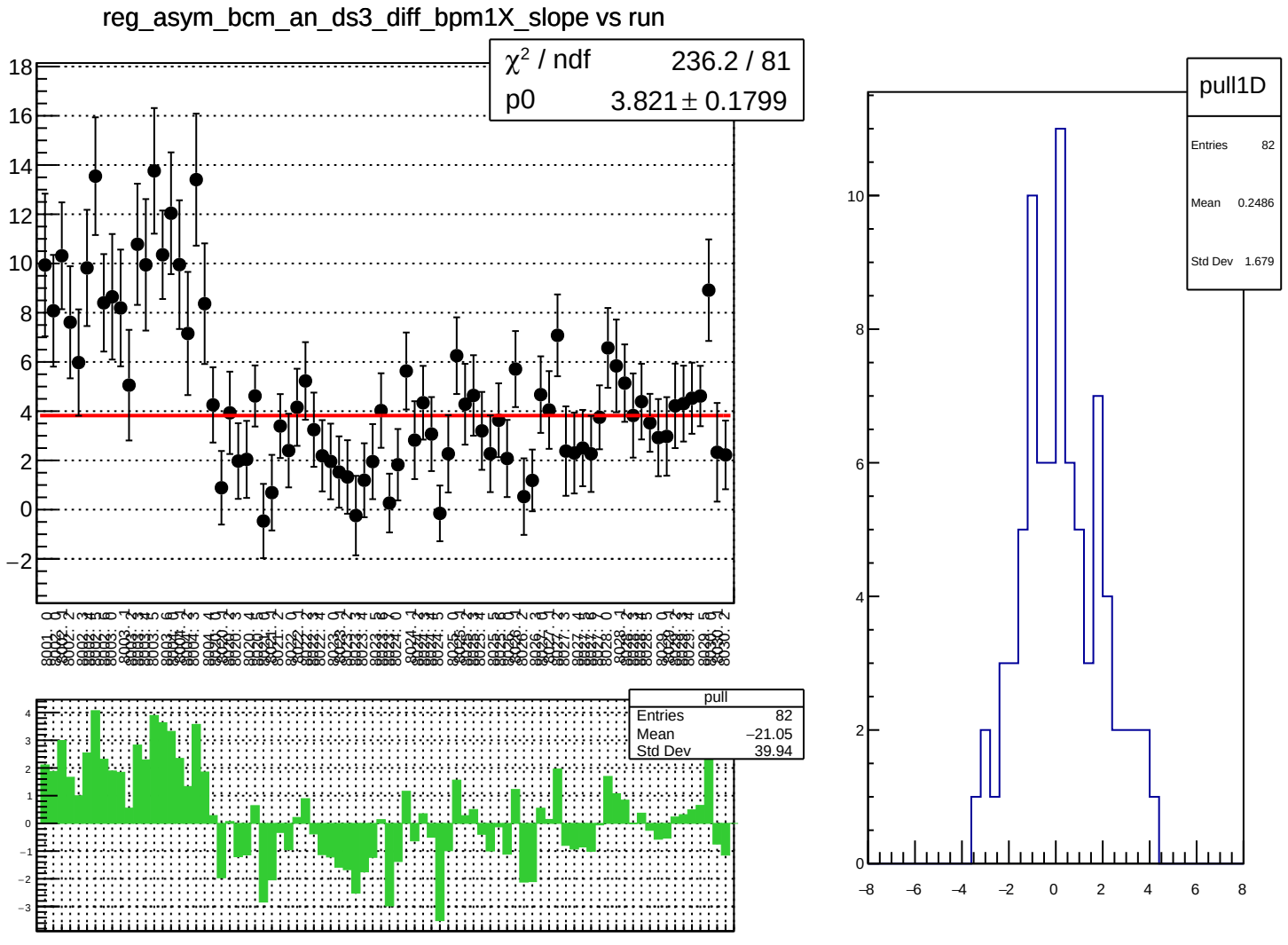

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.27 / 81
p0 −63.07 ± 2.098
pull
Entries 82
Mean −72.18
Std Dev 104.4

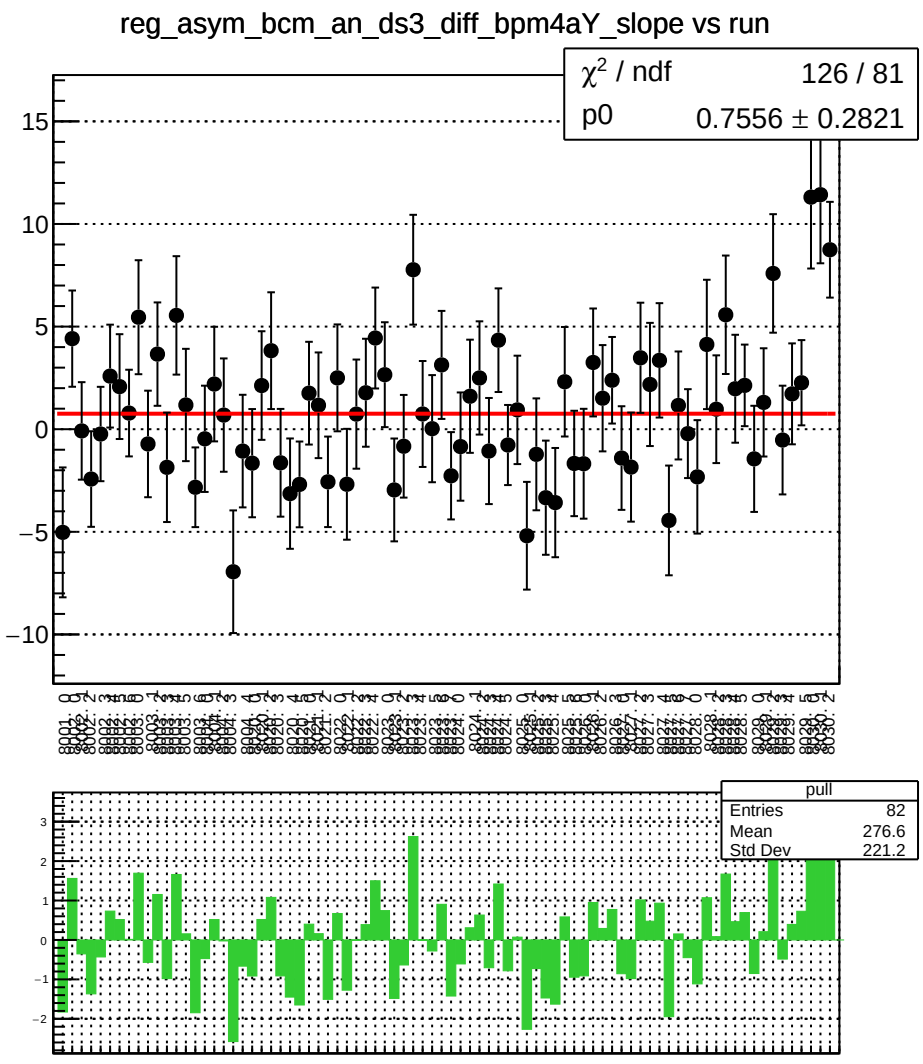

pull1D
Entries 82
Mean 0.06878
Std Dev 0.7877

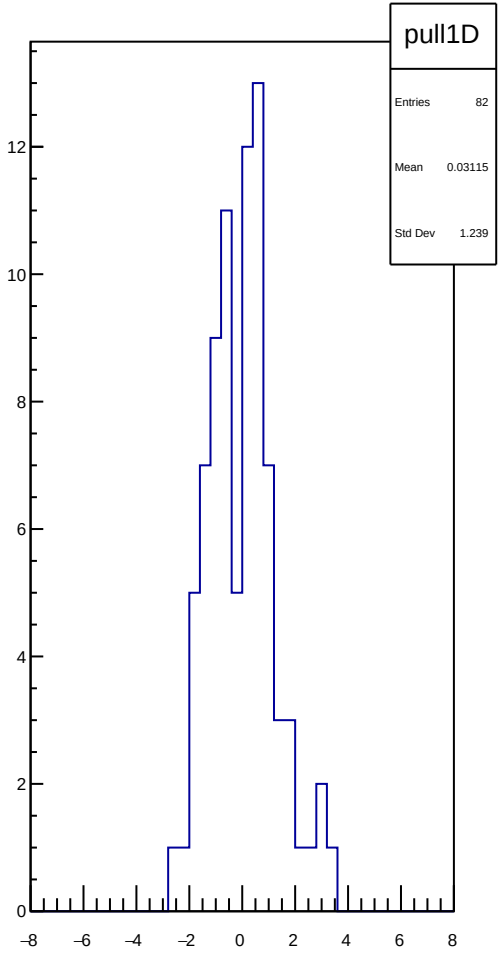

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.29 / 81
p0 4.127 ± 3.394
pull
Entries 82
Mean 50.36
Std Dev 72.48

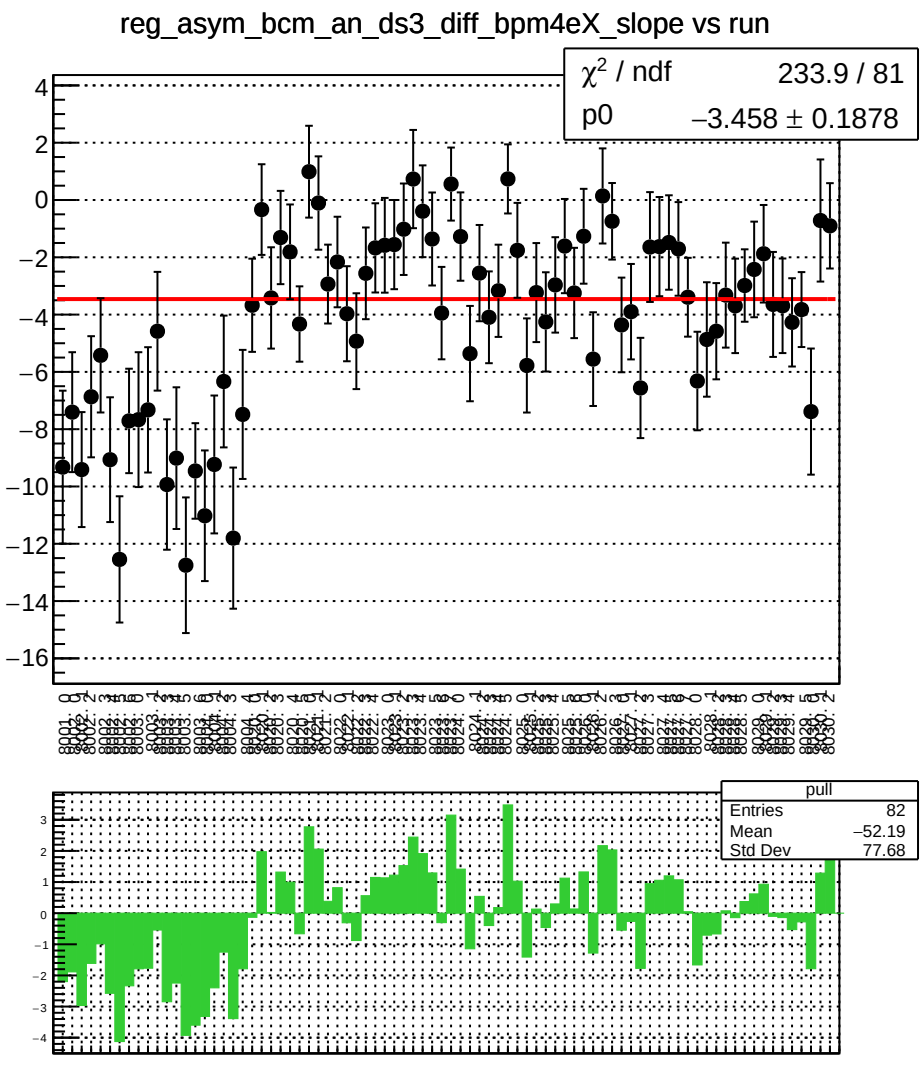

pull1D
Entries 82
Mean −0.01452
Std Dev 0.7512

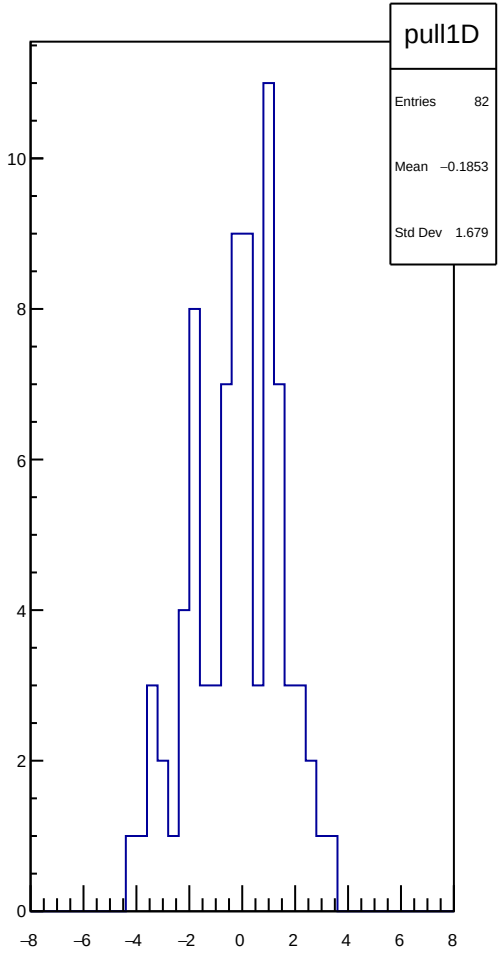

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 112 / 81
p0 26.93 ± 0.152
pull
Entries 82
Mean 88.39
Std Dev 52.61
pull1D
Entries 82
Mean 0.2418
Std Dev 1.143

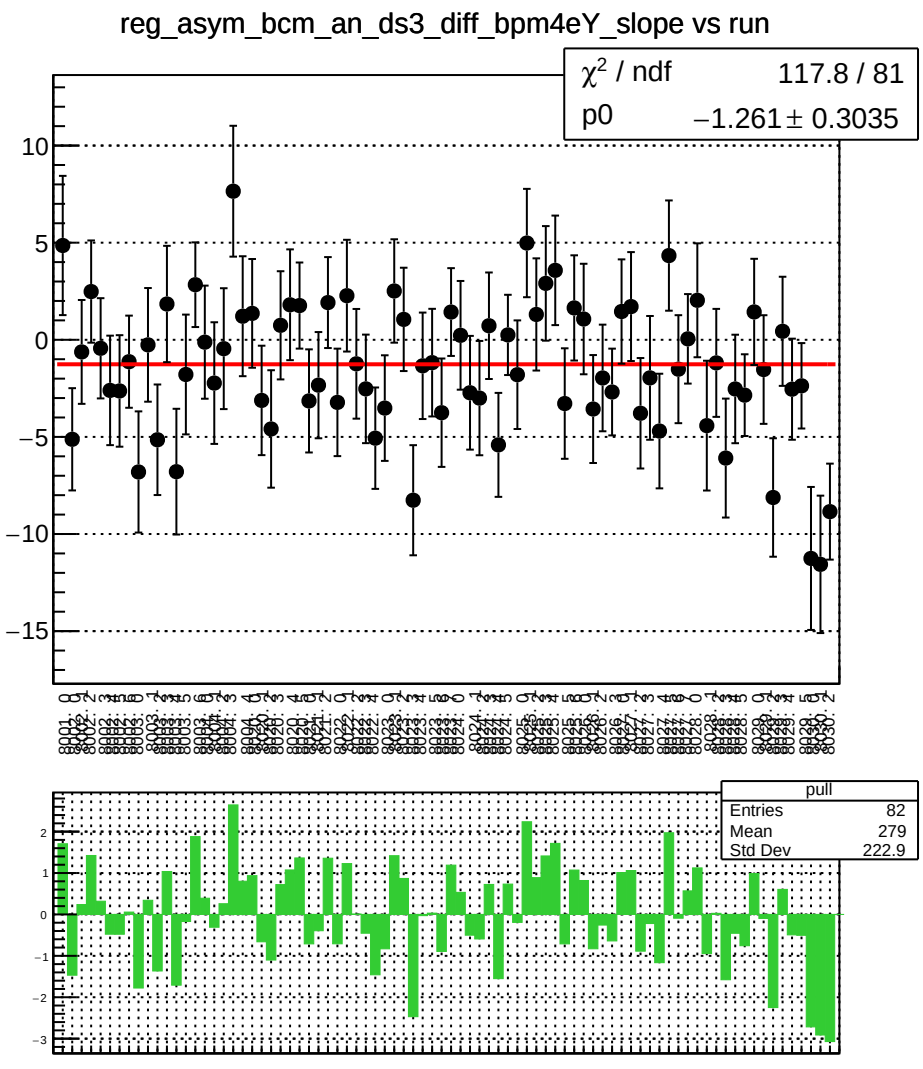

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 236.2 / 81
p0 3.821 ± 0.1799
pull
Entries 82
Mean −21.05
Std Dev 39.94
pull1D
Entries 82
Mean 0.2486
Std Dev 1.679

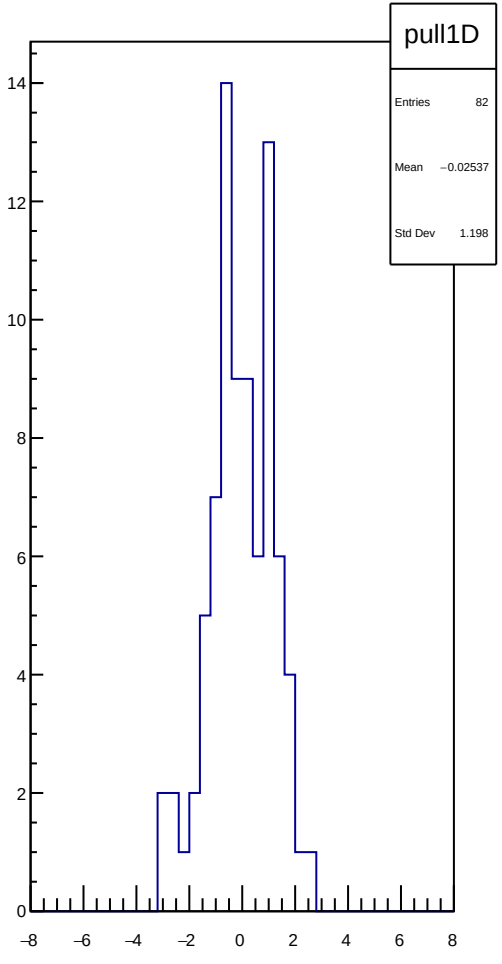

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 126 / 81
p0 0.7556 ± 0.2821
pull
Entries 82
Mean 276.6
Std Dev 221.2

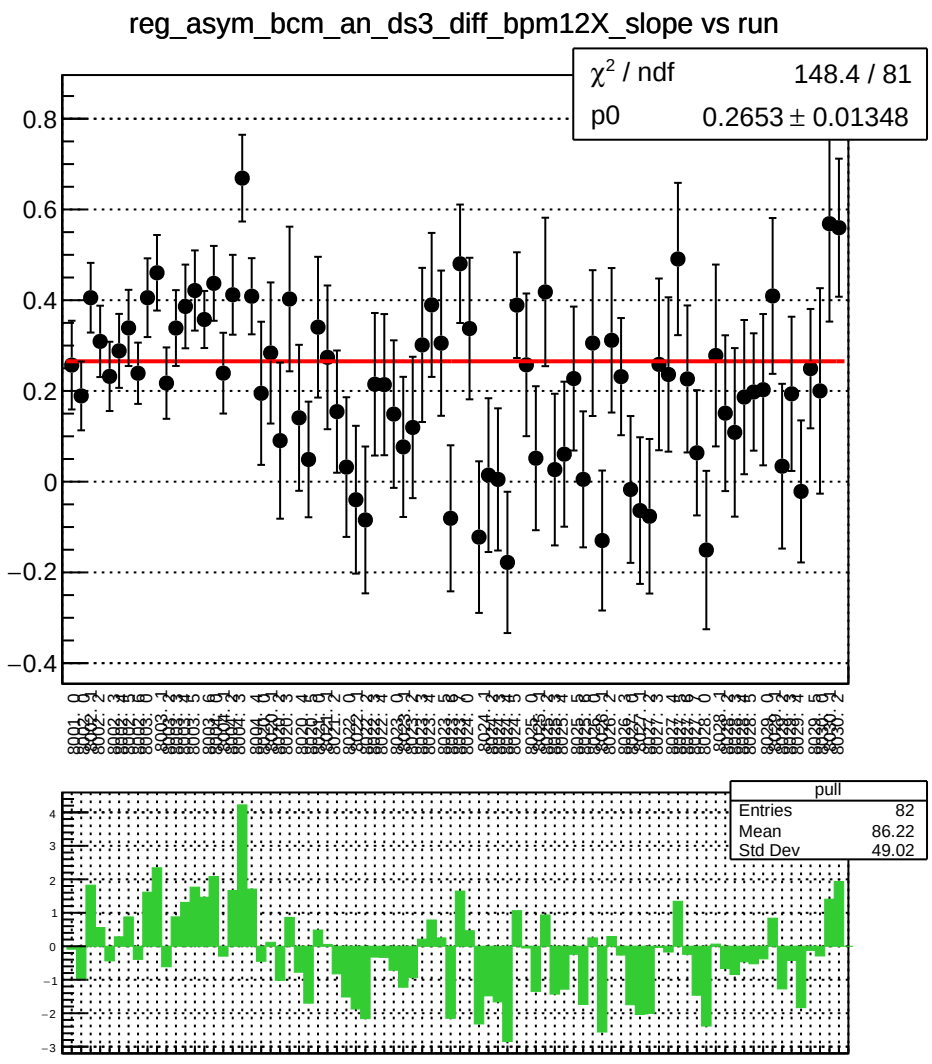

pull1D
Entries 82
Mean 0.03115
Std Dev 1.239

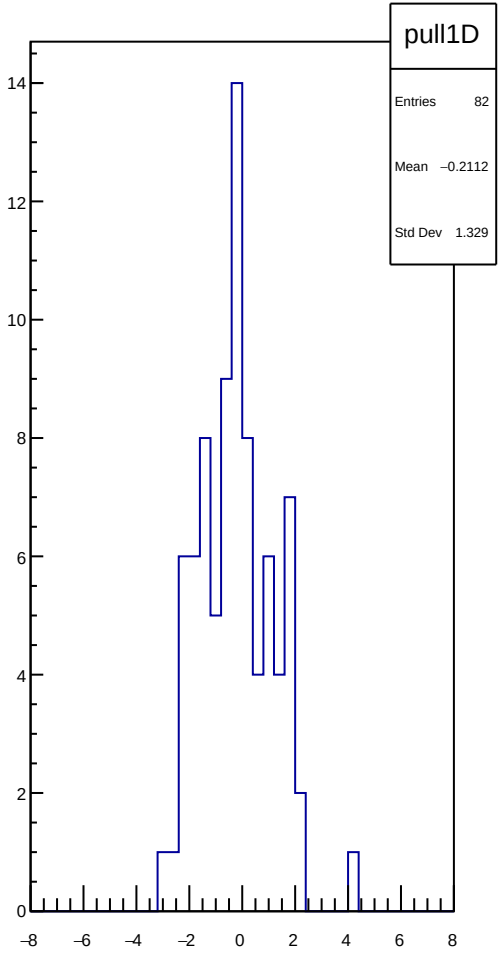

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 233.9 / 81
p0 −3.458 ± 0.1878
pull
Entries 82
Mean −52.19
Std Dev 77.68

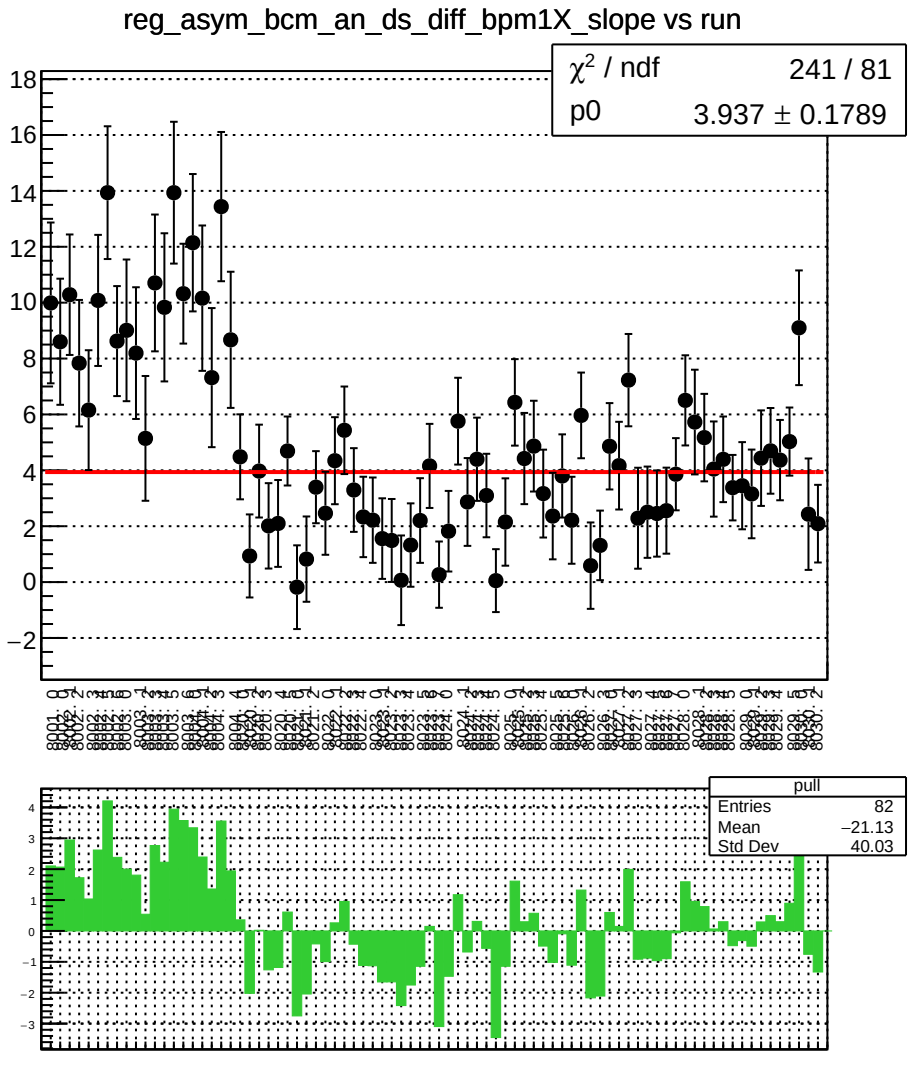

pull1D
Entries 82
Mean −0.1853
Std Dev 1.679

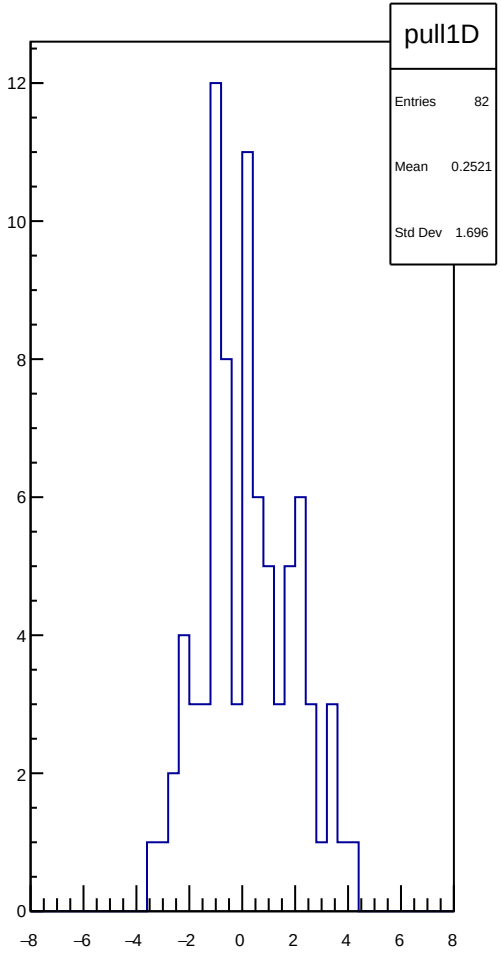

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 117.8 / 81
p0 −1.261 ± 0.3035
pull
Entries 82
Mean 279
Std Dev 222.9

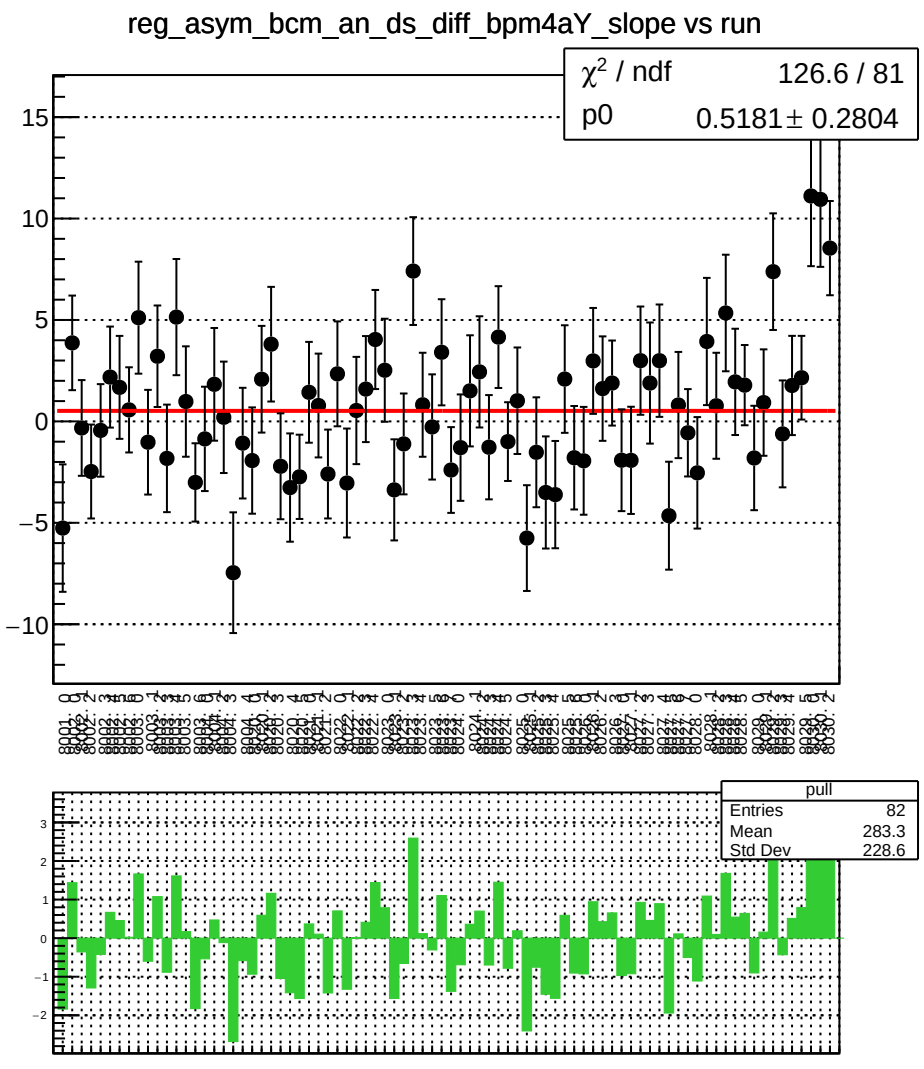

pull1D
Entries 82
Mean −0.02537
Std Dev 1.198

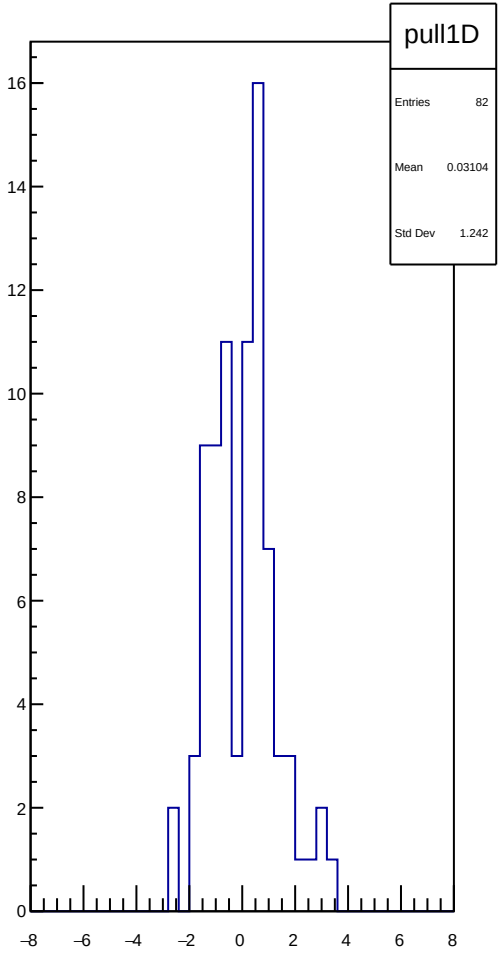

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 148.4 / 81
p0 0.2653 ± 0.01348
pull
Entries 82
Mean 86.22
Std Dev 49.02

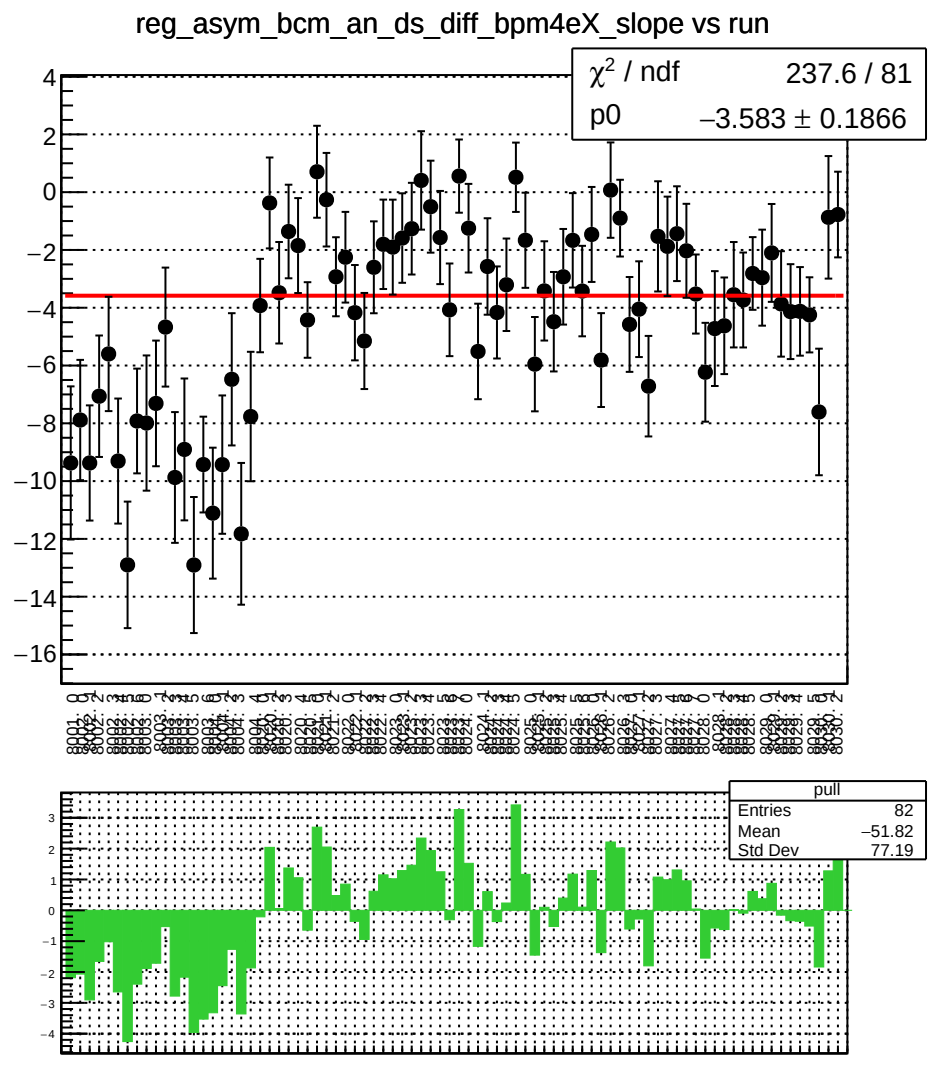

pull1D
Entries 82
Mean −0.2112
Std Dev 1.329

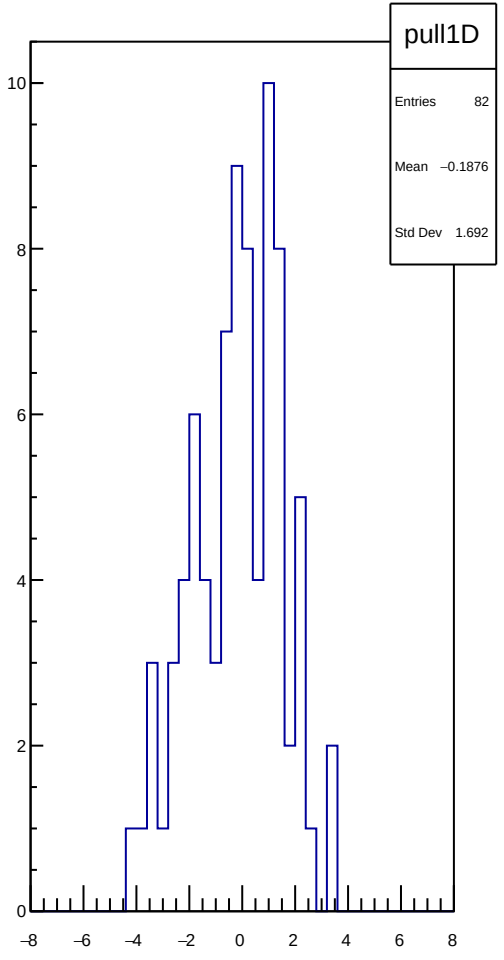

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 241 / 81
p0 3.937 ± 0.1789
pull
Entries 82
Mean −21.13
Std Dev 40.03

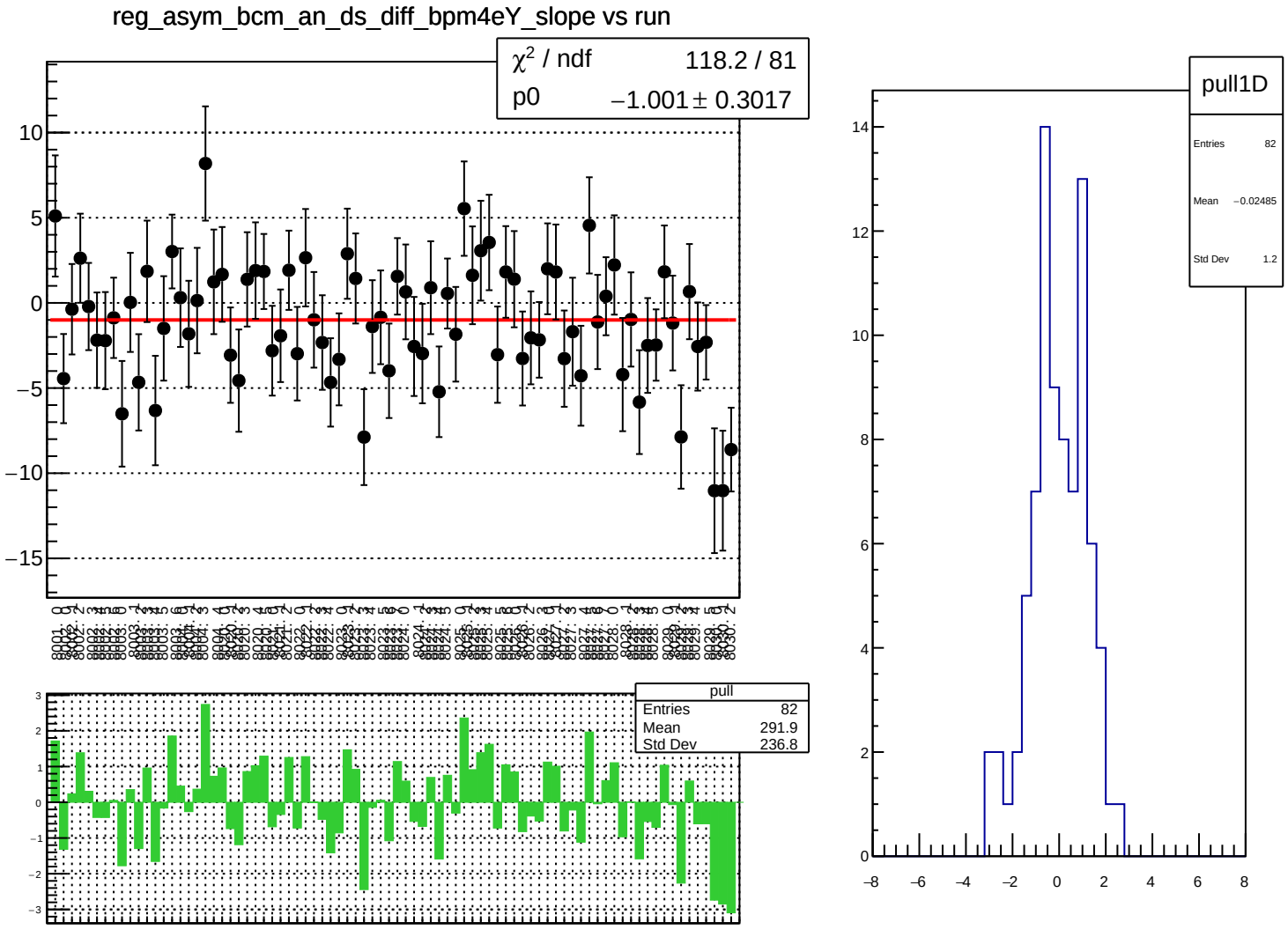

pull1D
Entries 82
Mean 0.2521
Std Dev 1.696

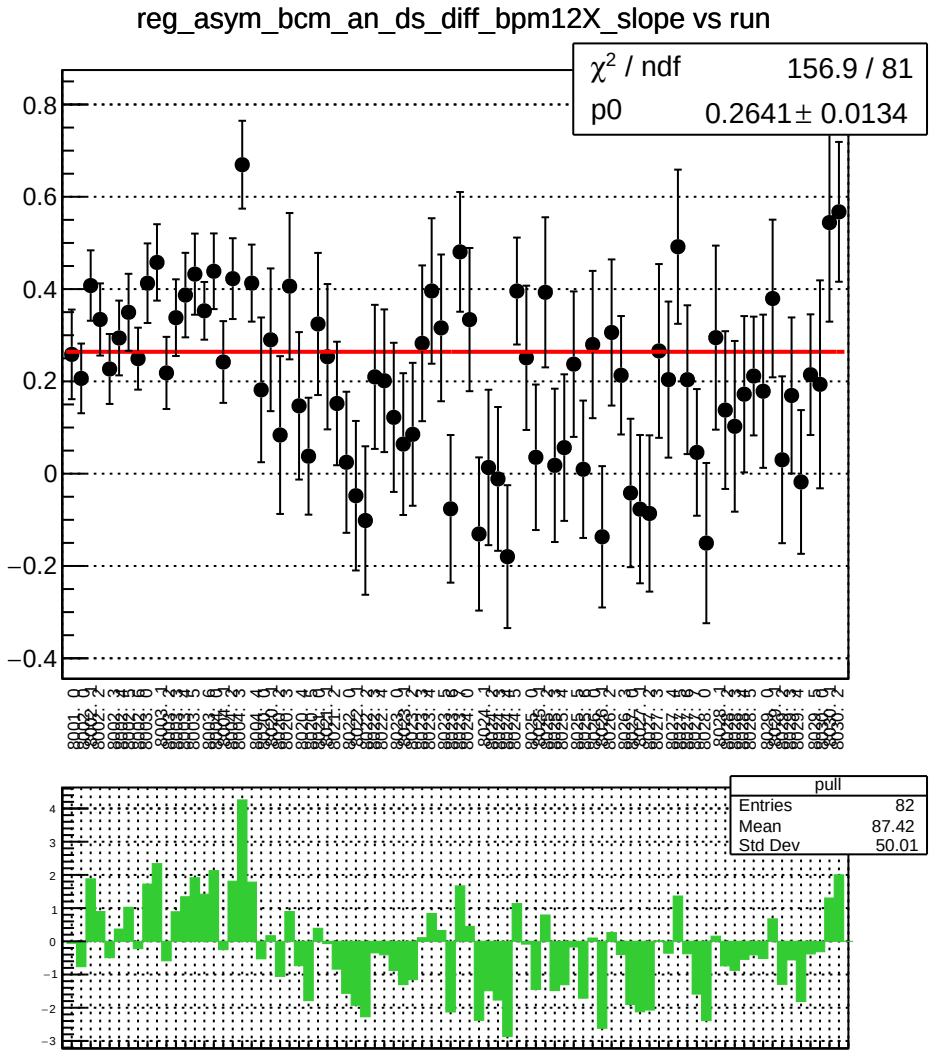

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 126.6 / 81
p0 0.5181 ± 0.2804
pull
Entries 82
Mean 283.3
Std Dev 228.6

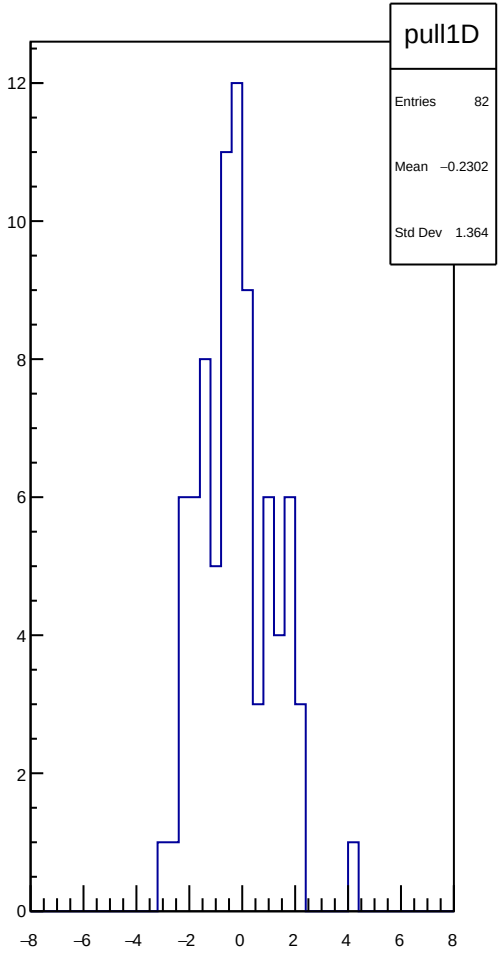

pull1D
Entries 82
Mean 0.03104
Std Dev 1.242

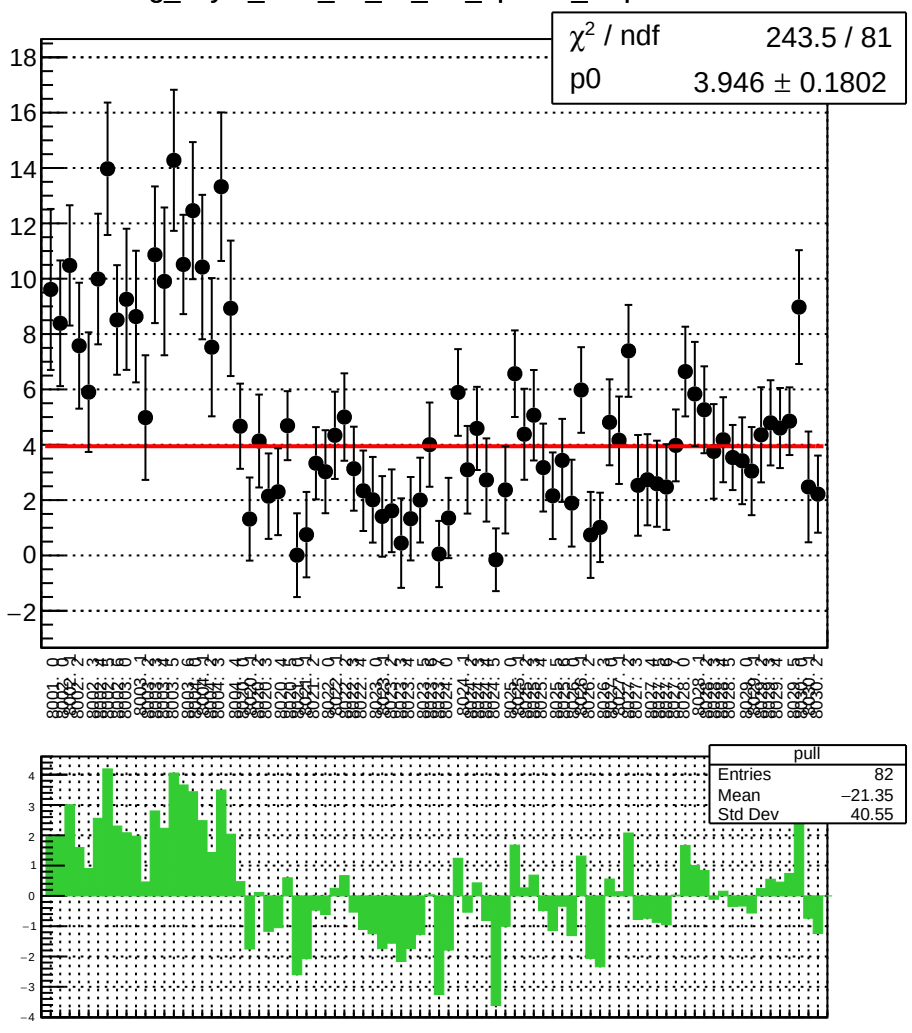

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 237.6 / 81
p0 −3.583 ± 0.1866
pull
Entries 82
Mean −51.82
Std Dev 77.19

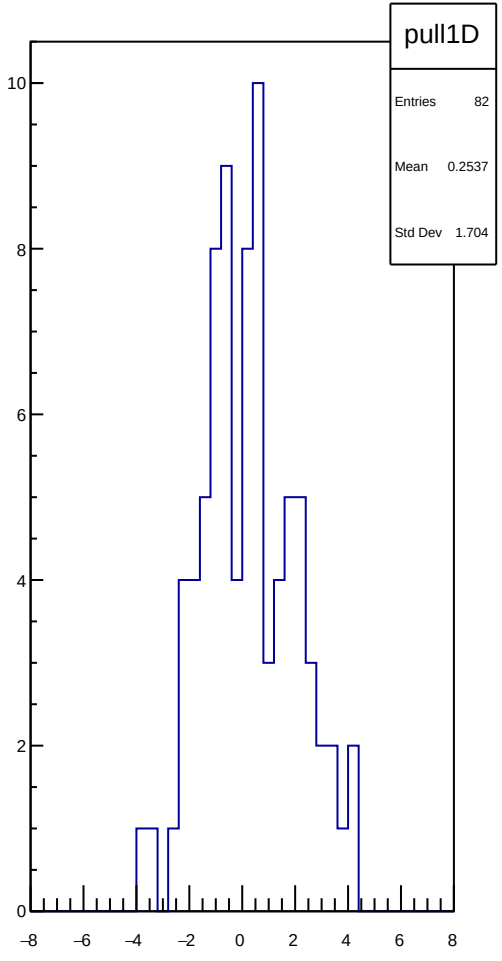

pull1D
Entries 82
Mean −0.1876
Std Dev 1.692

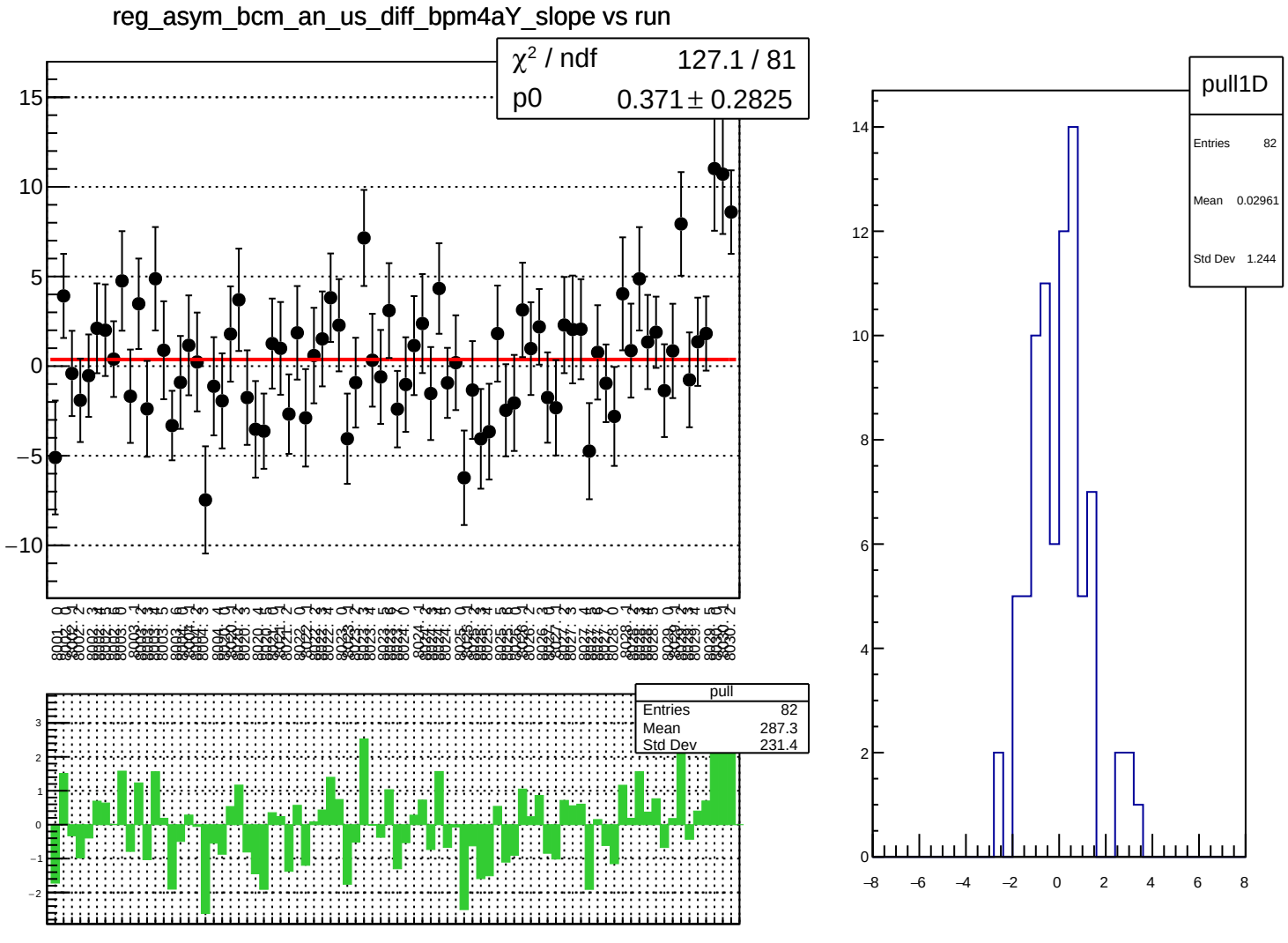

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 118.2 / 81
p0 −1.001 ± 0.3017
pull
Entries 82
Mean 291.9
Std Dev 236.8
pull1D
Entries 82
Mean −0.02485
Std Dev 1.2

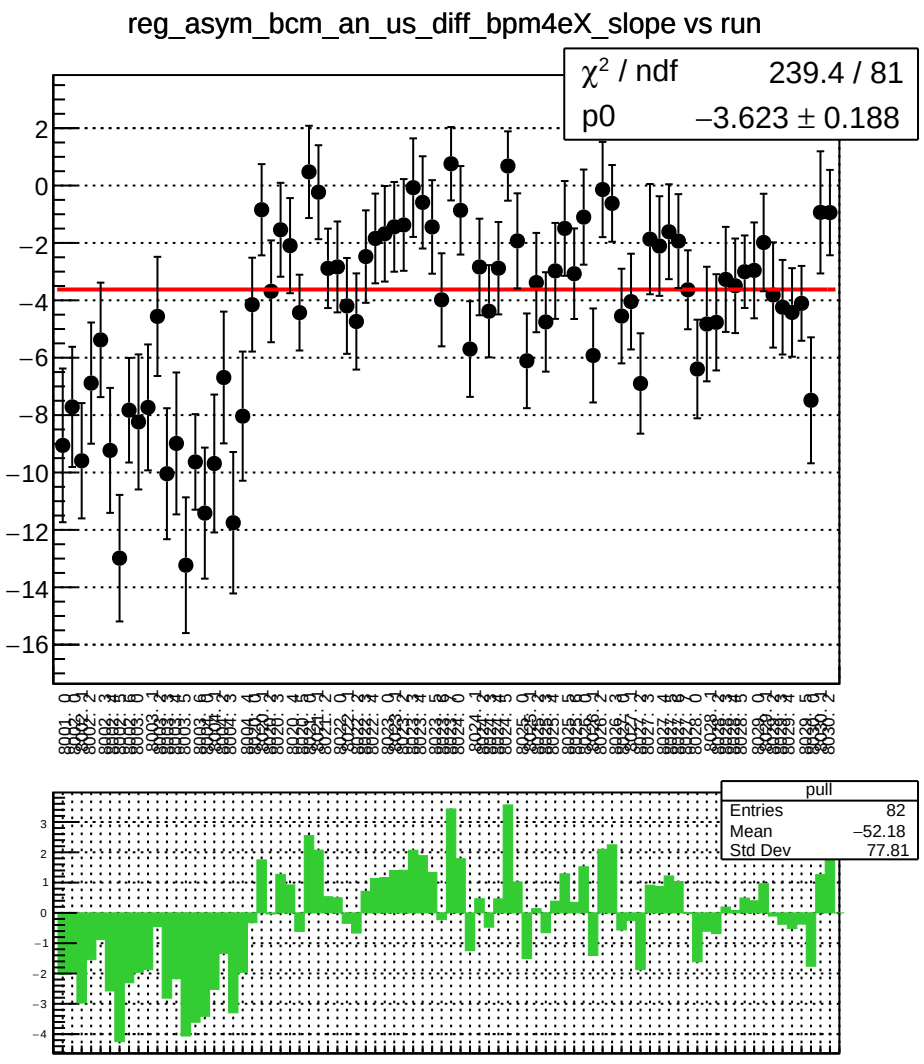

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 156.9 / 81
p0 0.2641± 0.0134
pull
Entries 82
Mean 87.42
Std Dev 50.01

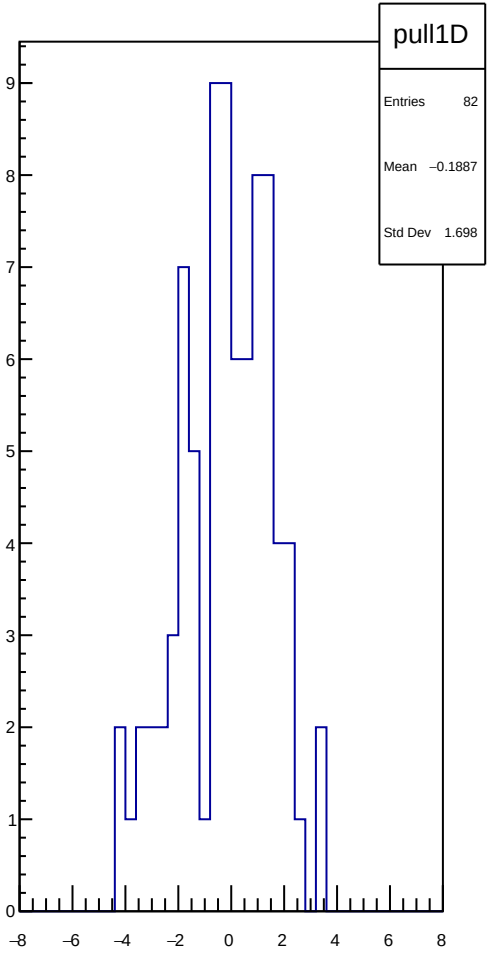

pull1D
Entries 82
Mean −0.2302
Std Dev 1.364

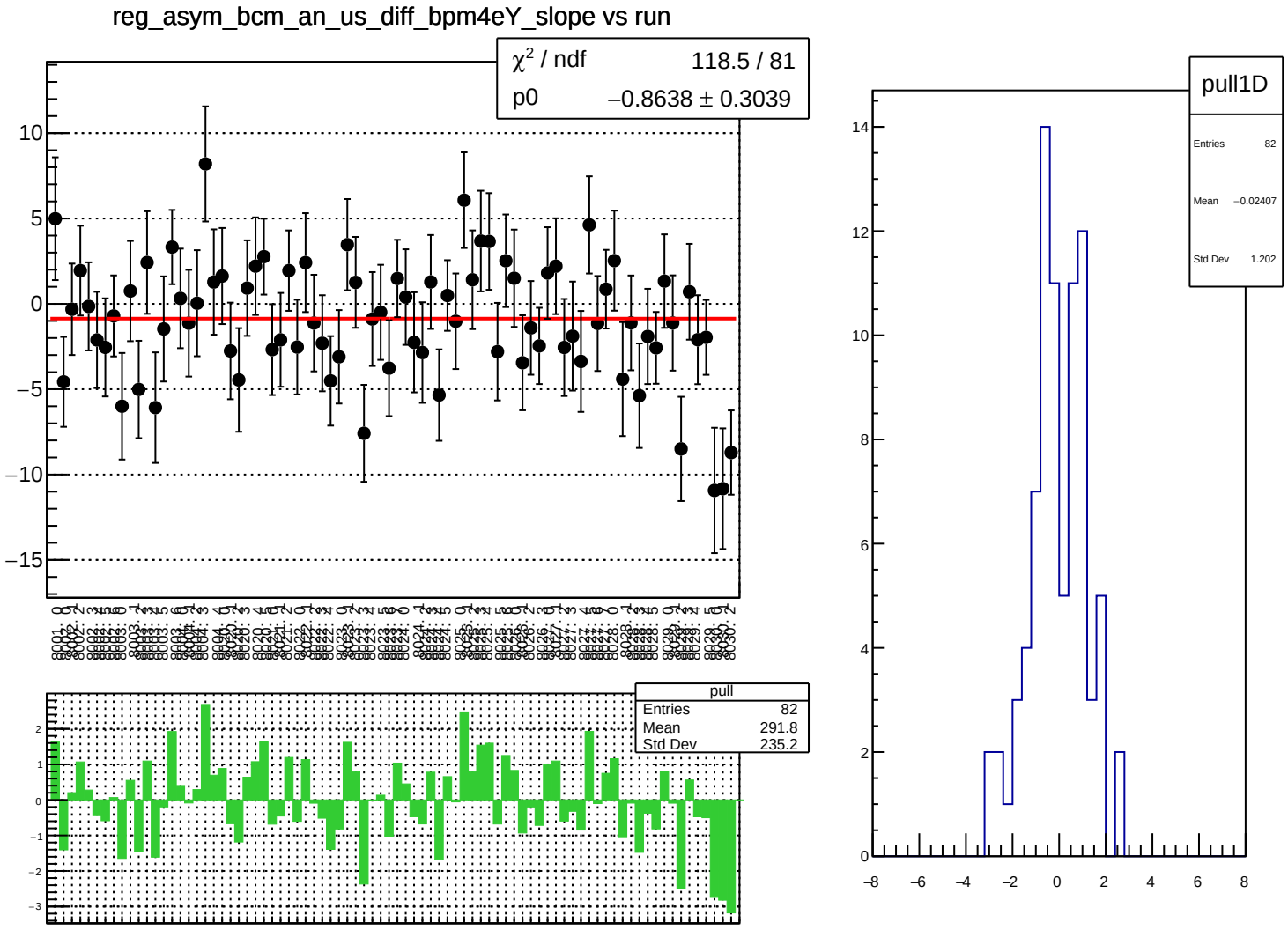

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 243.5 / 81
p0 3.946 ± 0.1802
pull
Entries 82
Mean −21.35
Std Dev 40.55

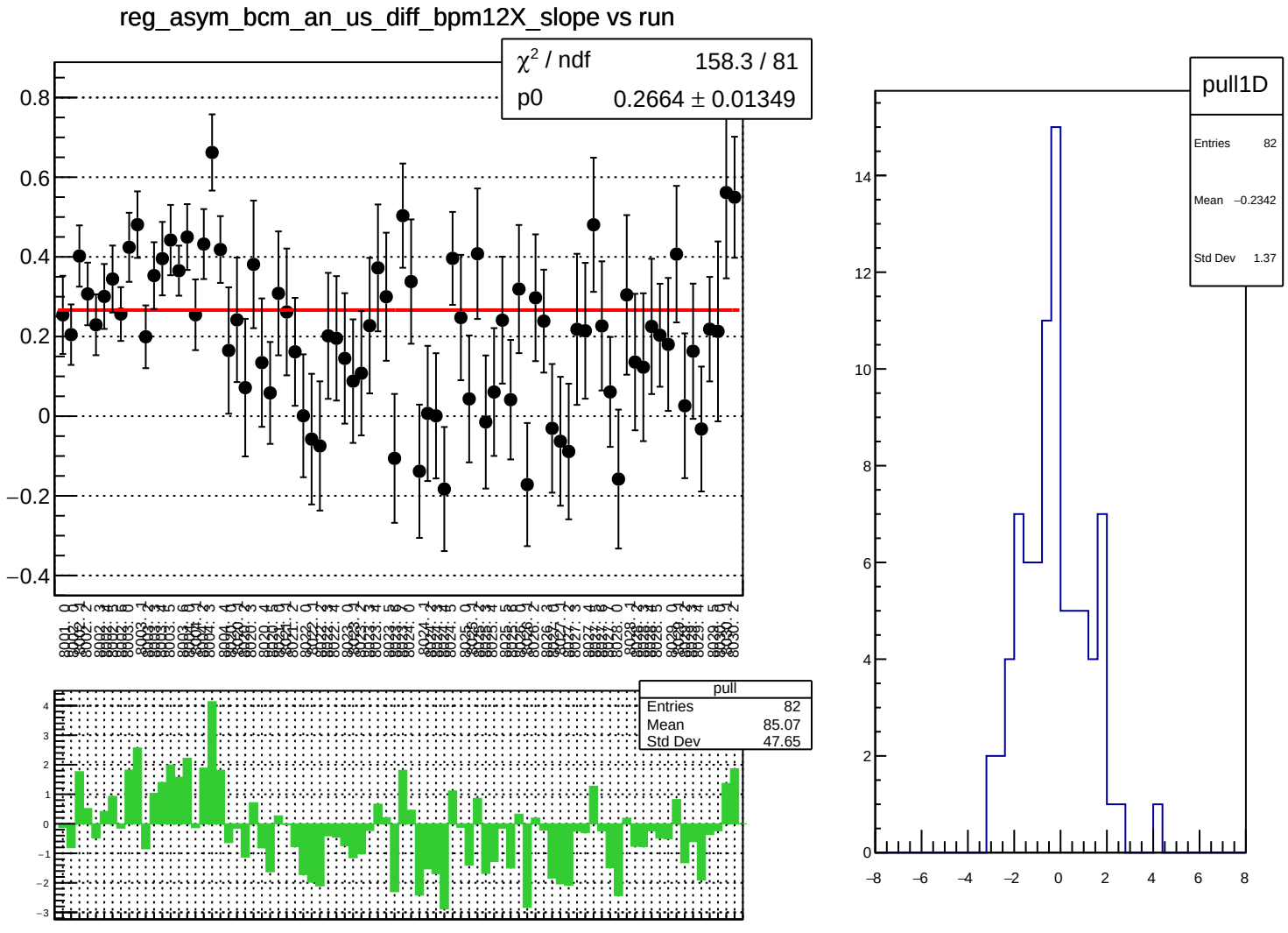

pull1D
Entries 82
Mean 0.2537
Std Dev 1.704

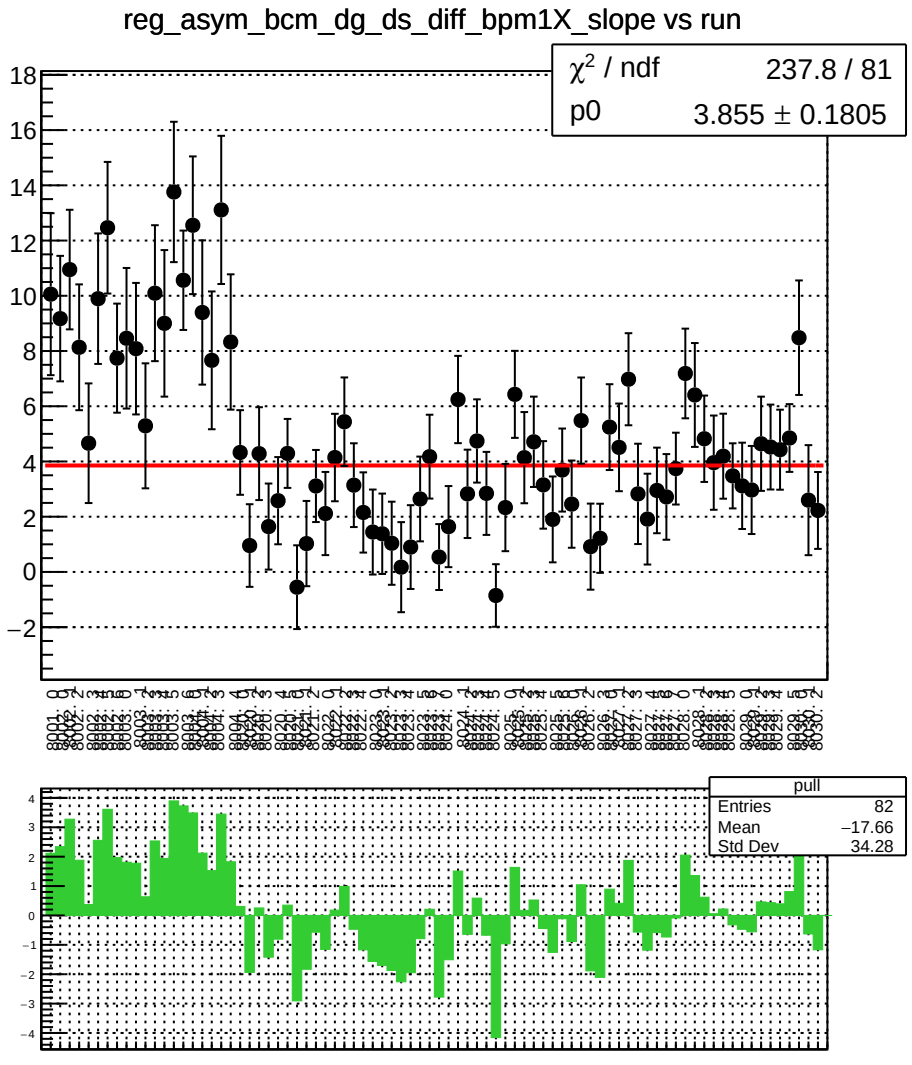

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 127.1 / 81
p0 0.371 ± 0.2825
pull
Entries 82
Mean 287.3
Std Dev 231.4
pull1D
Entries 82
Mean 0.02961
Std Dev 1.244

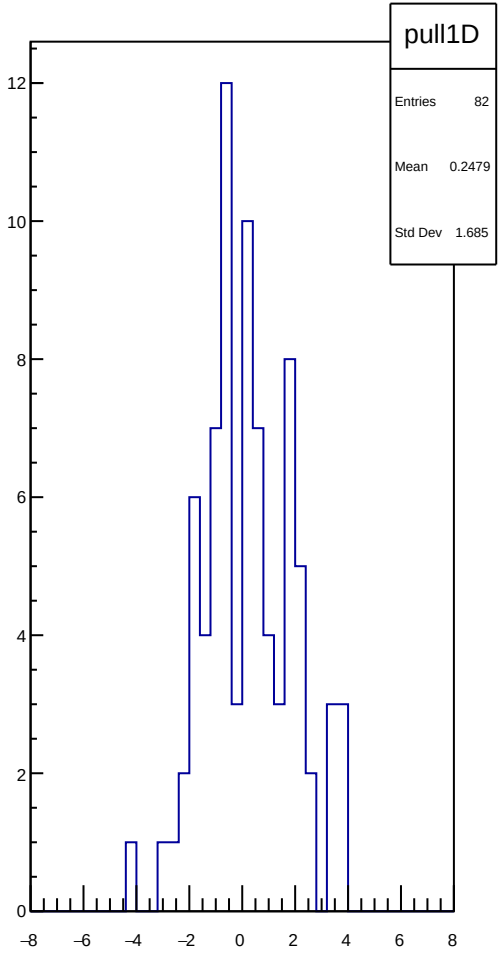

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 239.4 / 81
p0 −3.623 ± 0.188
pull
Entries 82
Mean −52.18
Std Dev 77.81

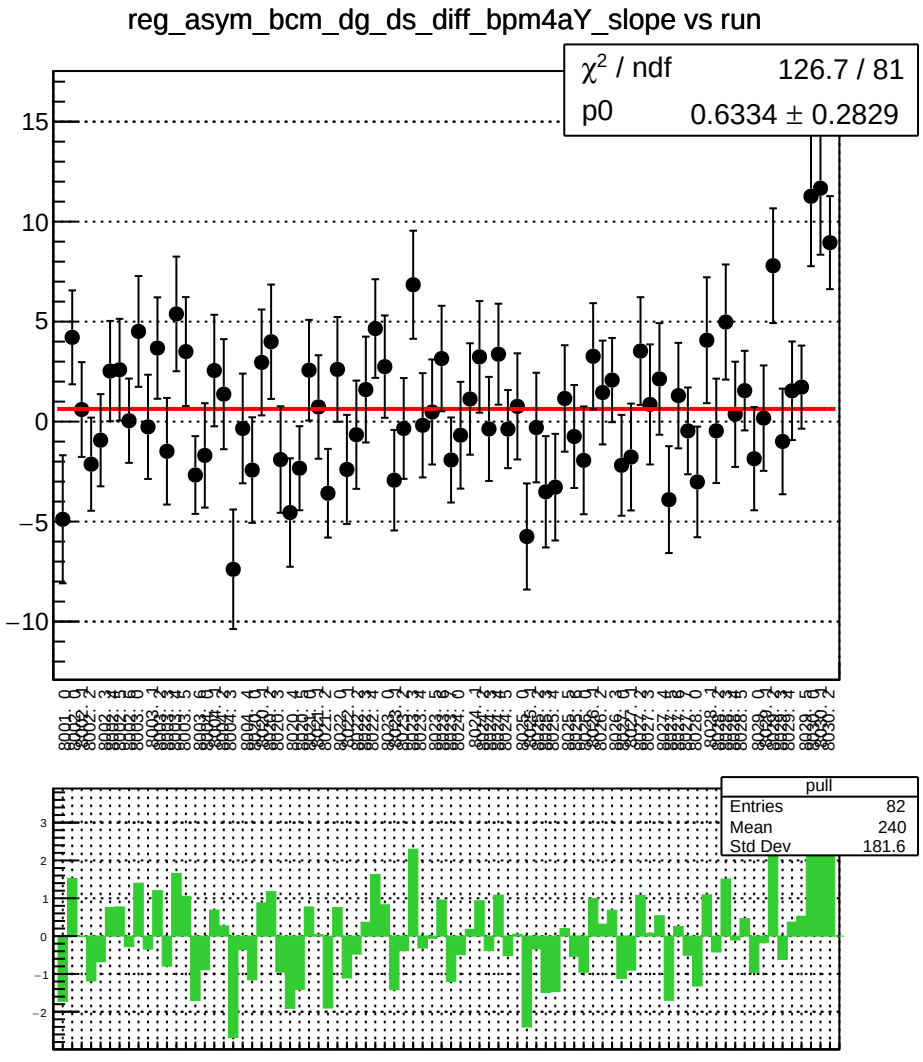

pull1D
Entries 82
Mean −0.1887
Std Dev 1.698

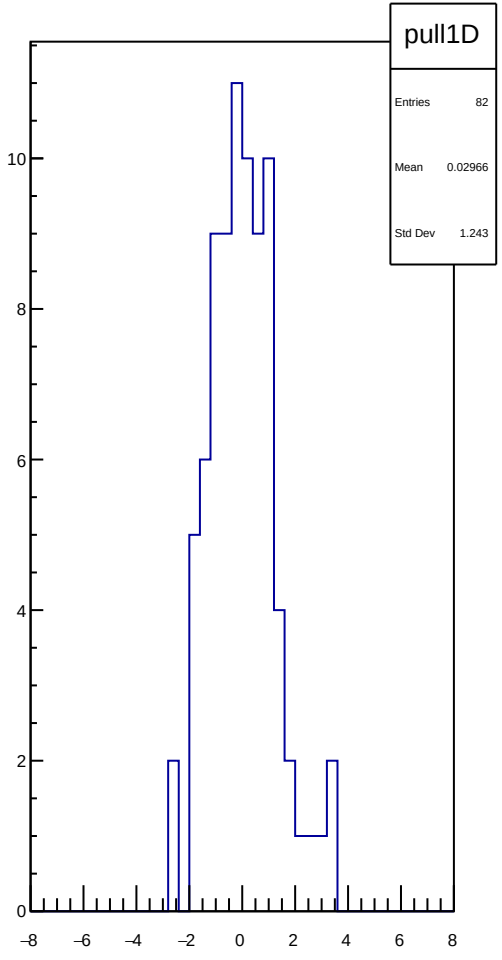

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 118.5 / 81
p0 −0.8638 ± 0.3039
pull
Entries 82
Mean 291.8
Std Dev 235.2
pull1D
Entries 82
Mean −0.02407
Std Dev 1.202

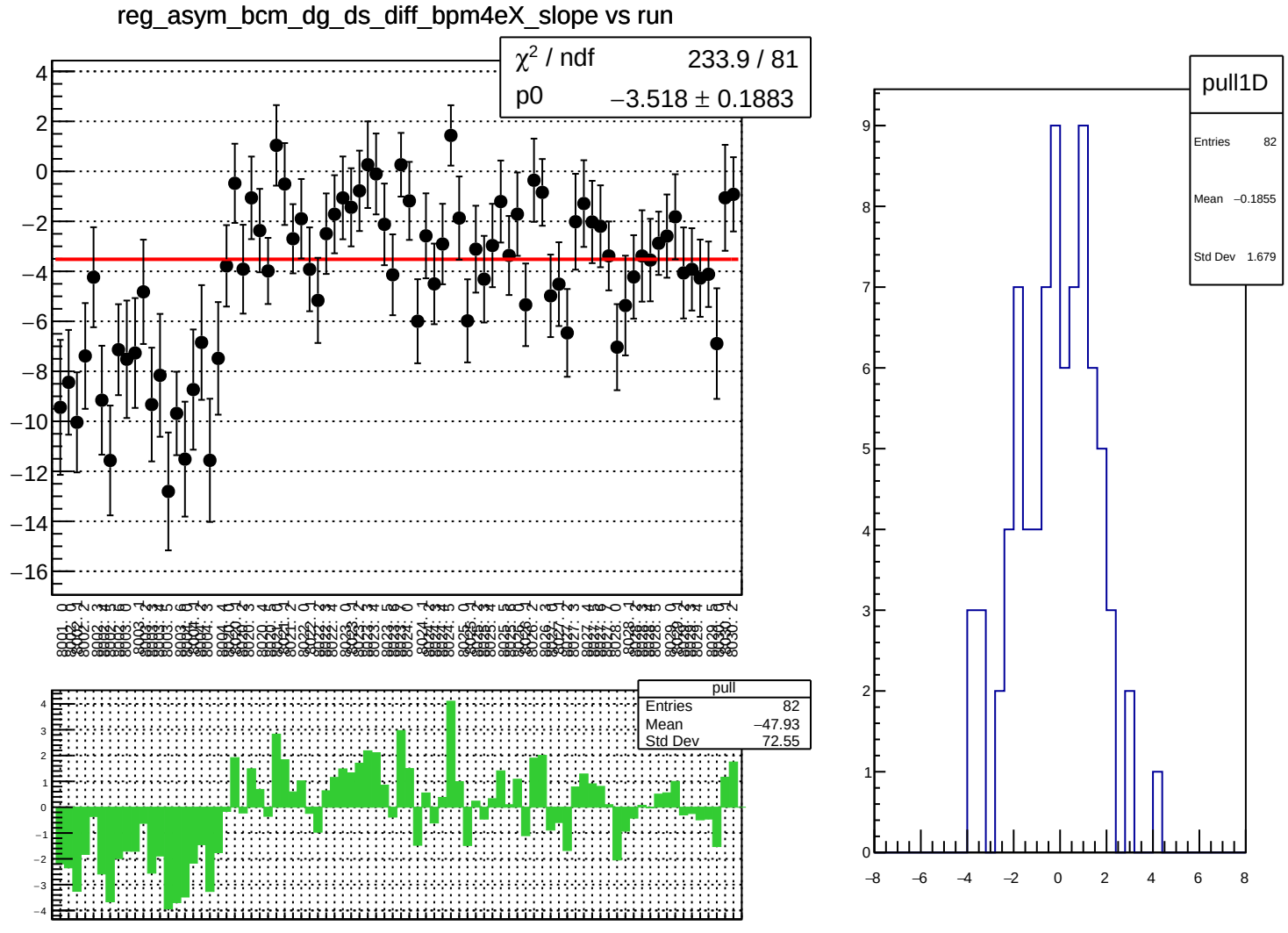

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 158.3 / 81
p0 0.2664 ± 0.01349
pull
Entries 82
Mean 85.07
Std Dev 47.65
pull1D
Entries 82
Mean −0.2342
Std Dev 1.37

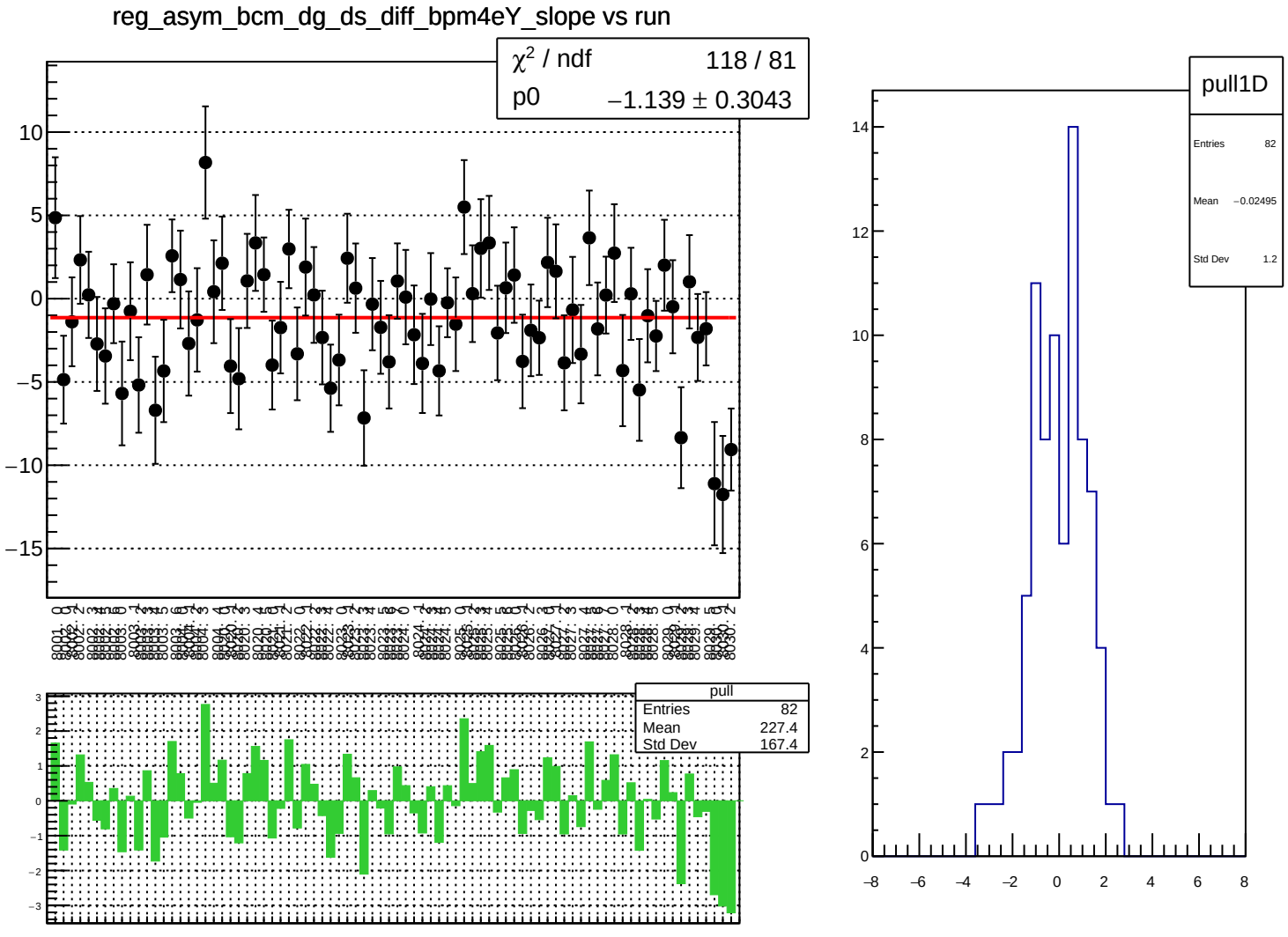

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 237.8 / 81
p0 3.855 ± 0.1805
pull
Entries 82
Mean −17.66
Std Dev 34.28

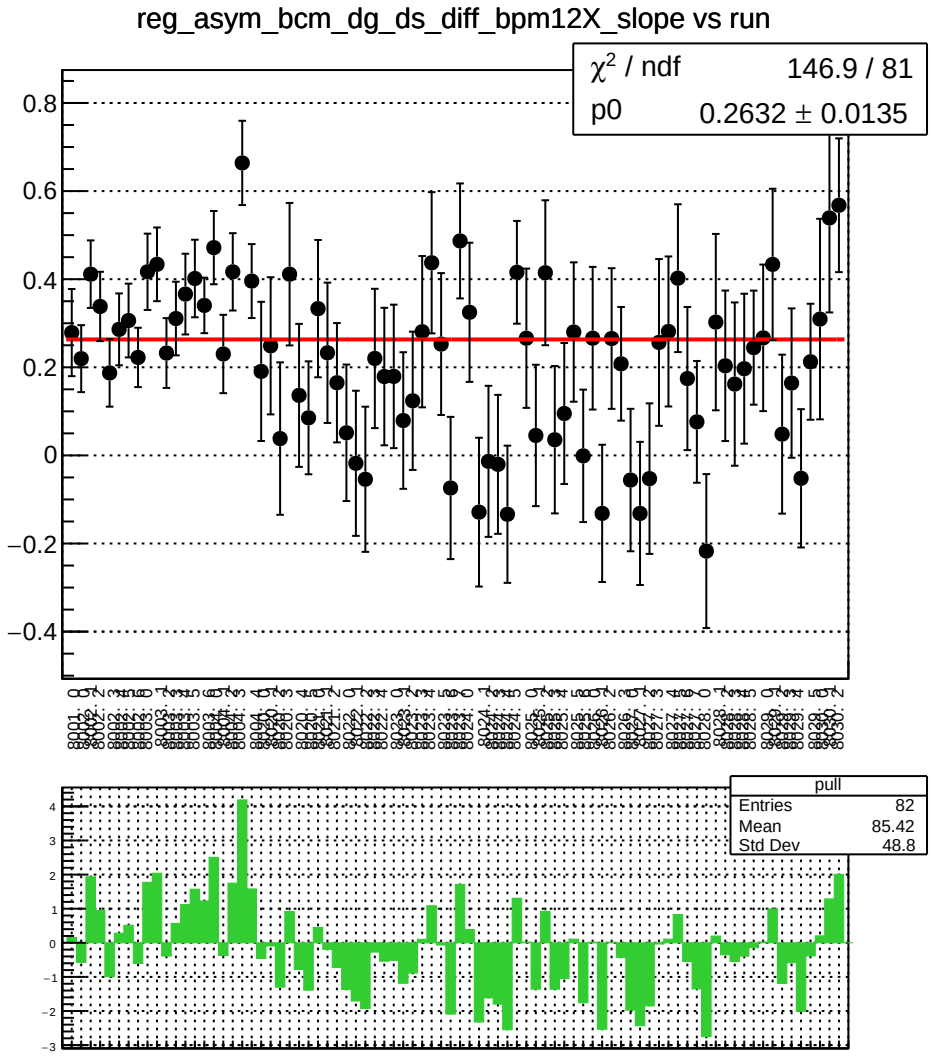

pull1D
Entries 82
Mean 0.2479
Std Dev 1.685

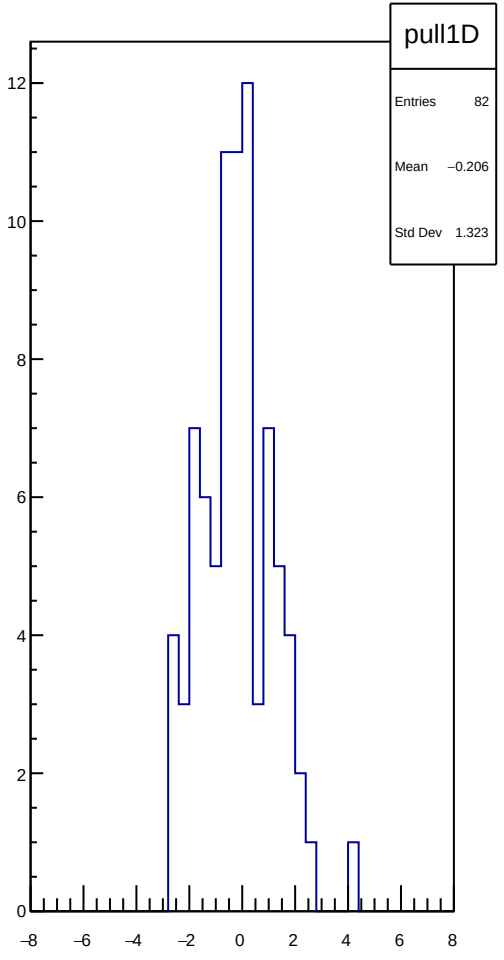

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 126.7 / 81
p0 0.6334 ± 0.2829
pull
Entries 82
Mean 240
Std Dev 181.6

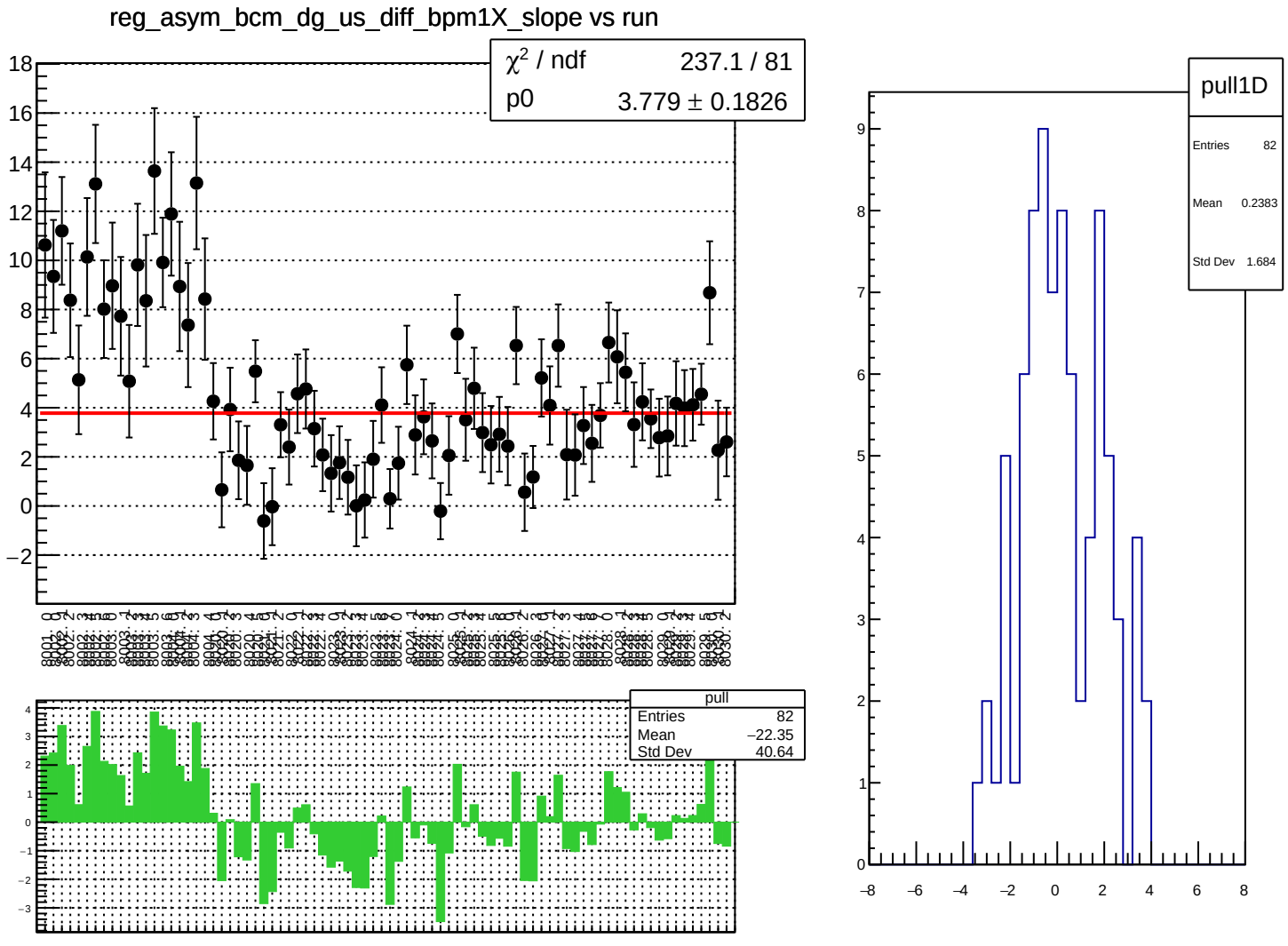

pull1D
Entries 82
Mean 0.02966
Std Dev 1.243

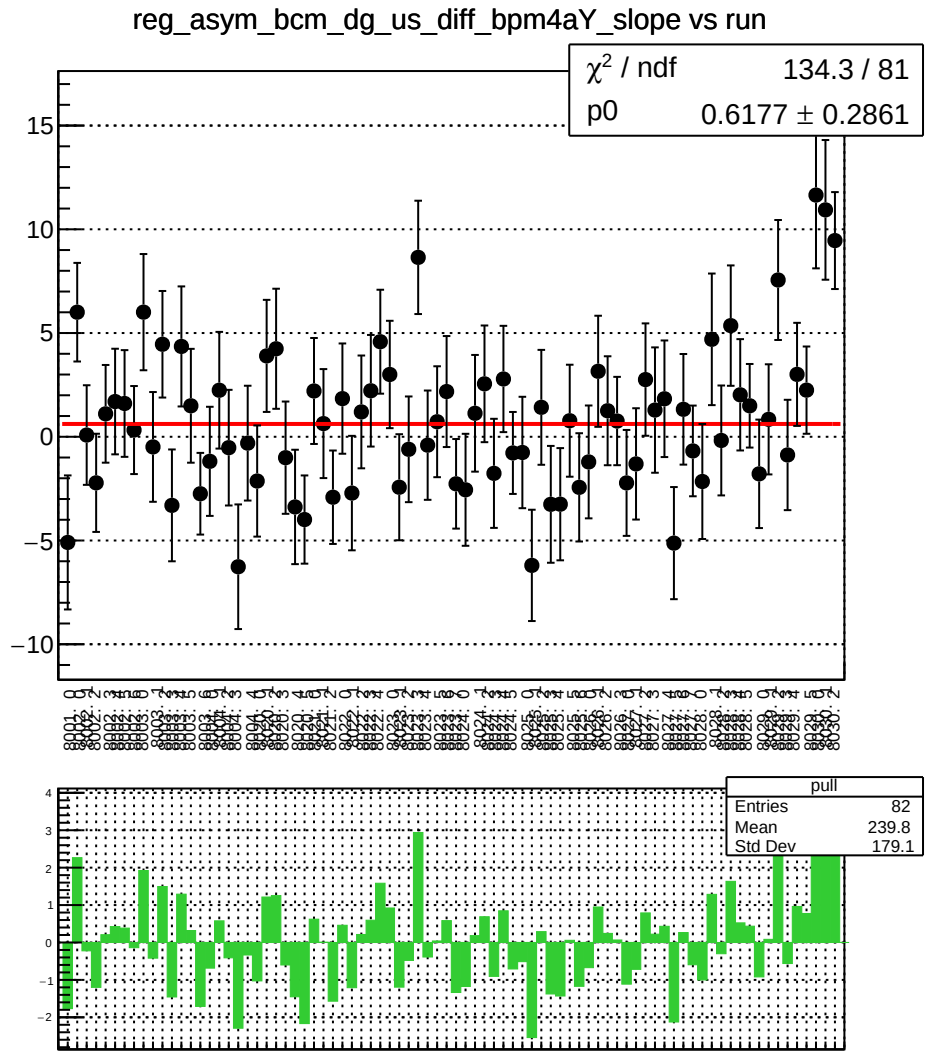

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 233.9 / 81
p0 −3.518 ± 0.1883
pull
Entries 82
Mean −47.93
Std Dev 72.55
pull1D
Entries 82
Mean −0.1855
Std Dev 1.679

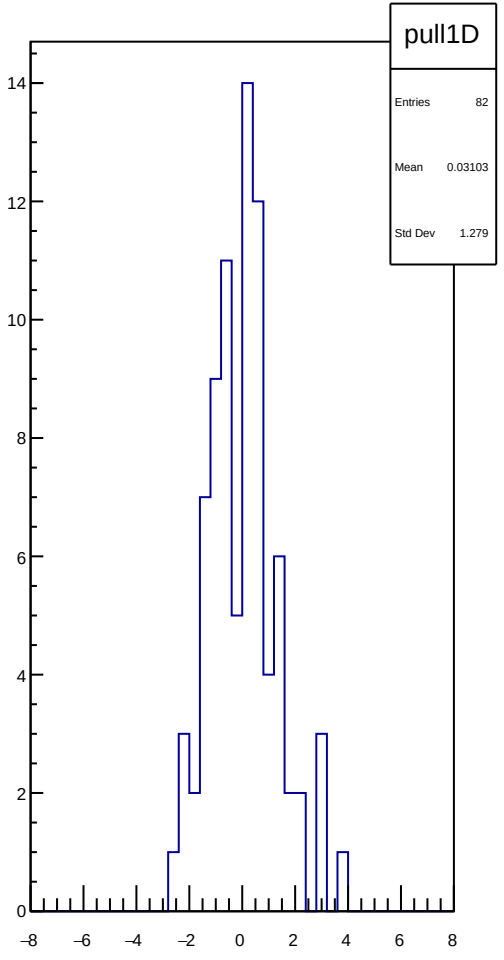

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 118 / 81
p0 −1.139 ± 0.3043
pull
Entries 82
Mean 227.4
Std Dev 167.4
pull1D
Entries 82
Mean −0.02495
Std Dev 1.2

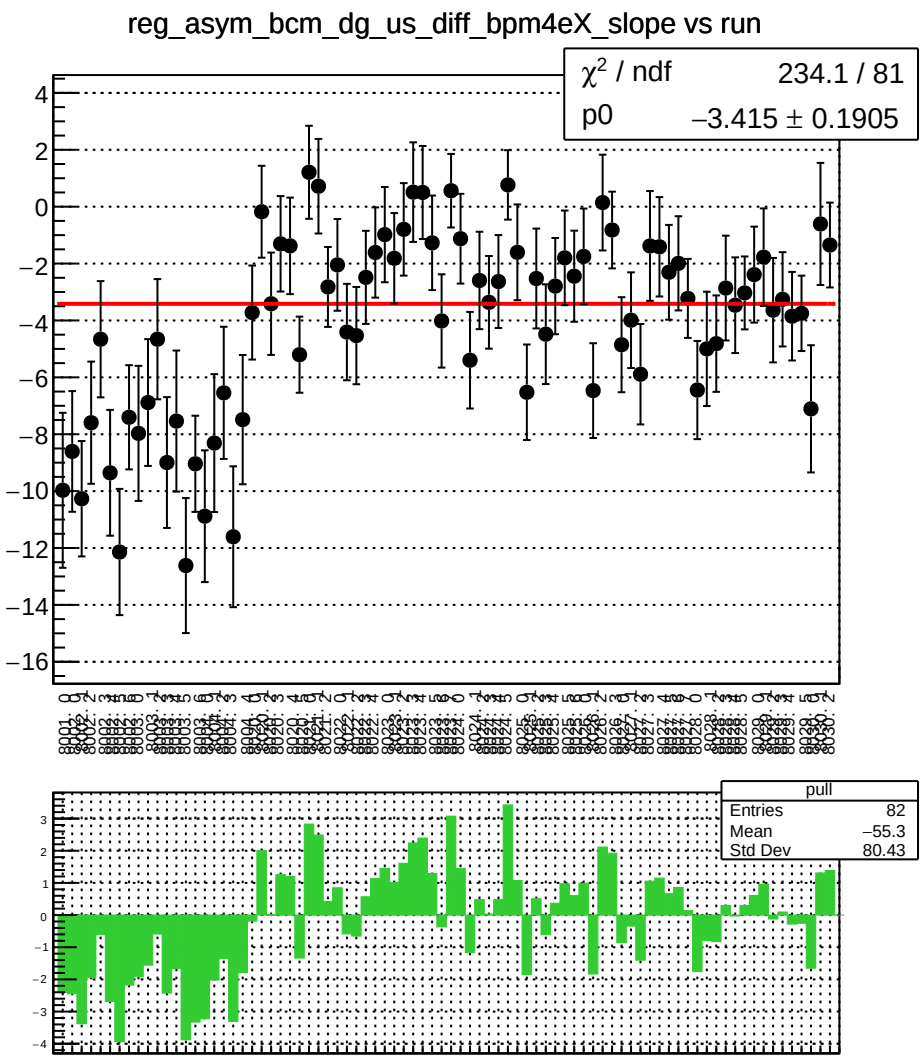

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 146.9 / 81
p0 0.2632 ± 0.0135
pull
Entries 82
Mean 85.42
Std Dev 48.8

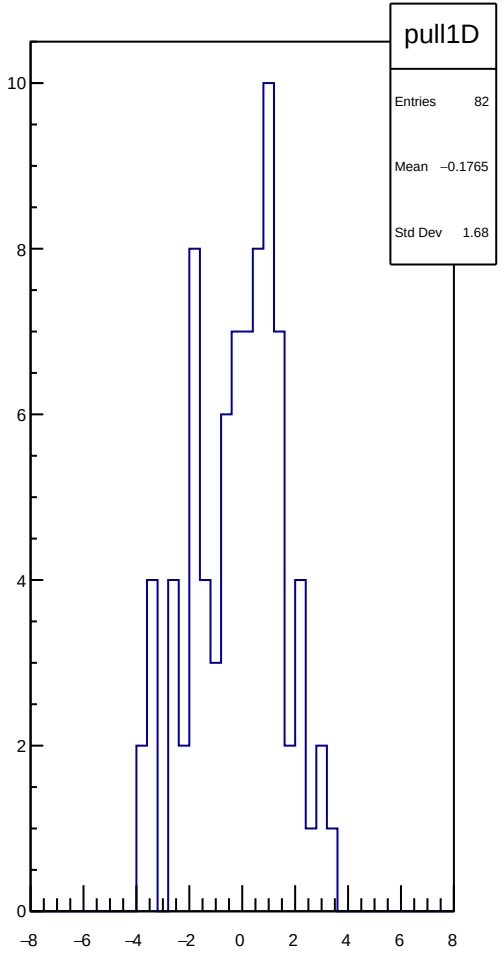

pull1D
Entries 82
Mean −0.206
Std Dev 1.323

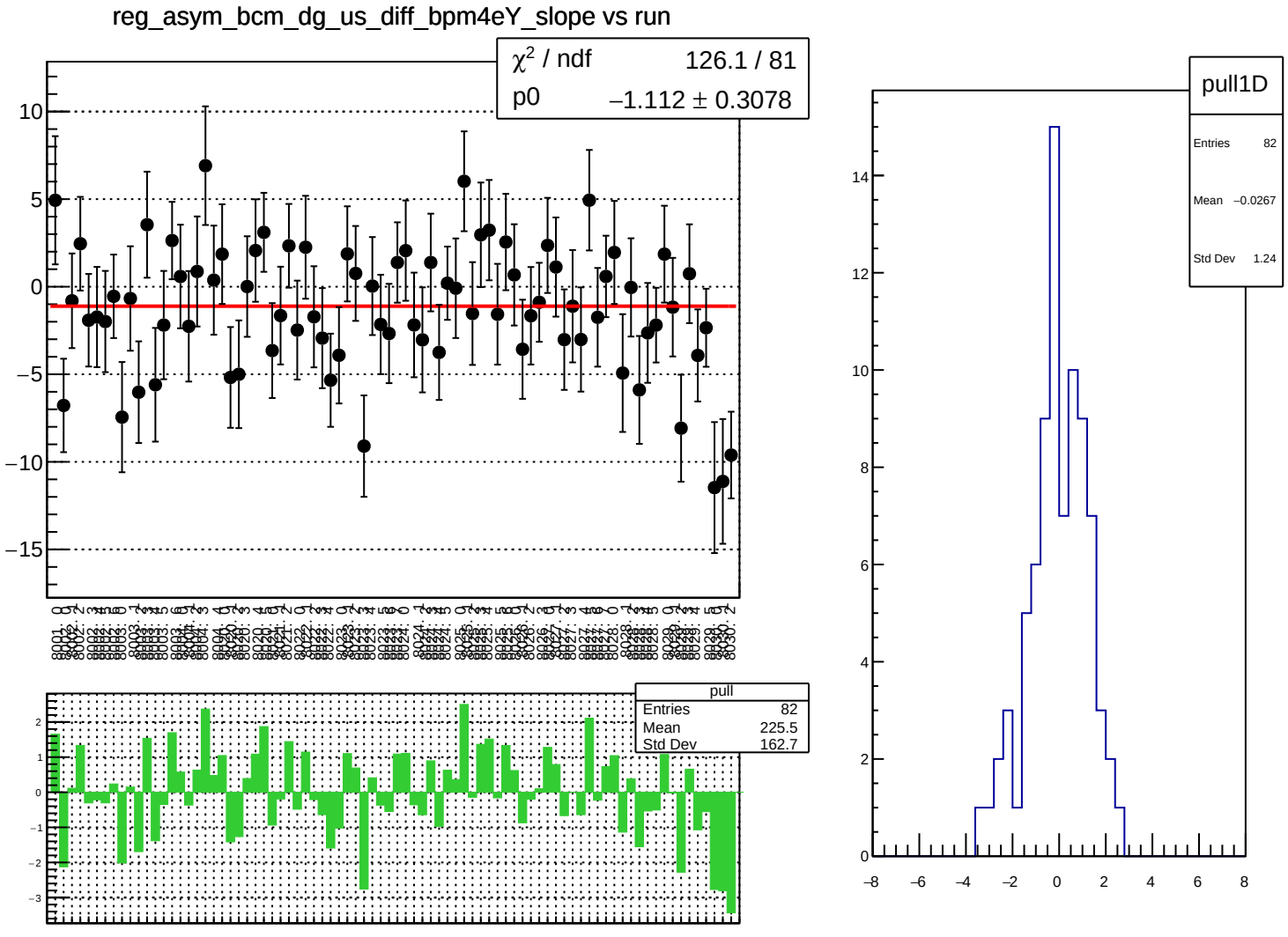

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 237.1 / 81
p0 3.779 ± 0.1826
pull
Entries 82
Mean −22.35
Std Dev 40.64
pull1D
Entries 82
Mean 0.2383
Std Dev 1.684

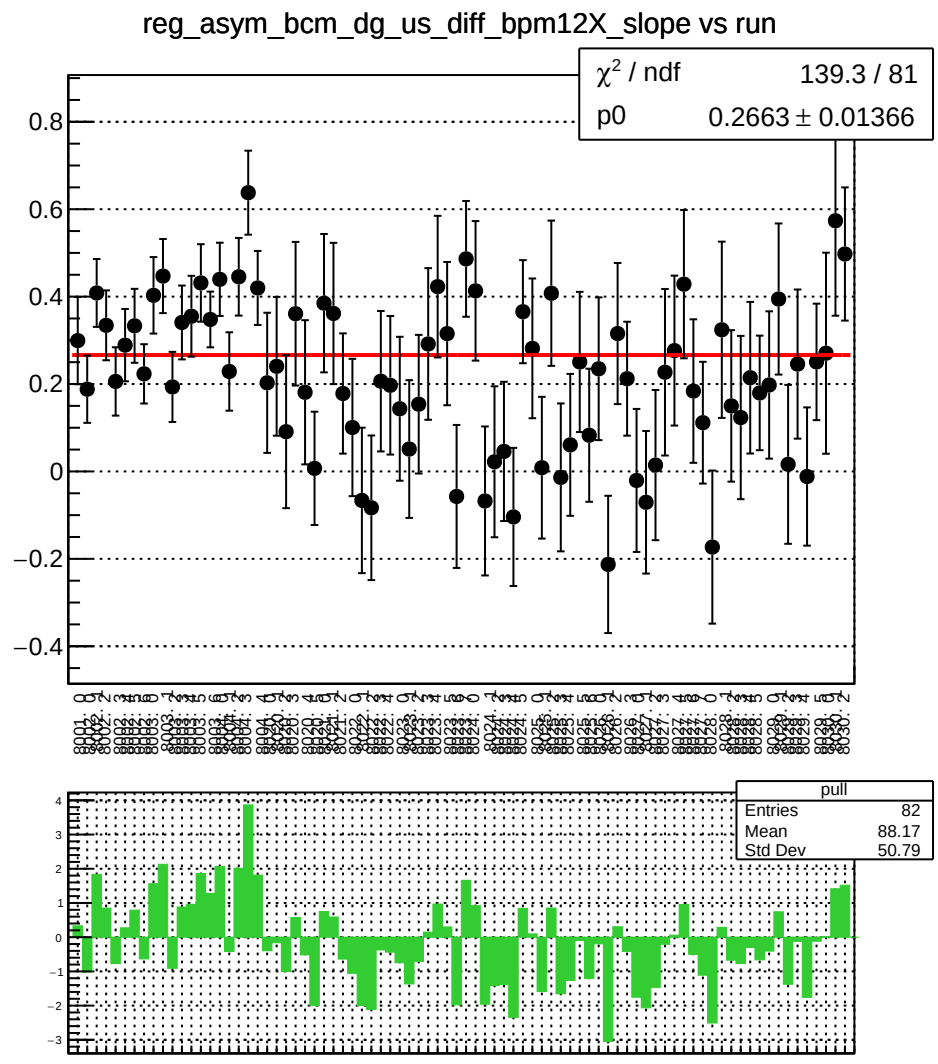

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 134.3 / 81
p0 0.6177 ± 0.2861
pull
Entries 82
Mean 239.8
Std Dev 179.1

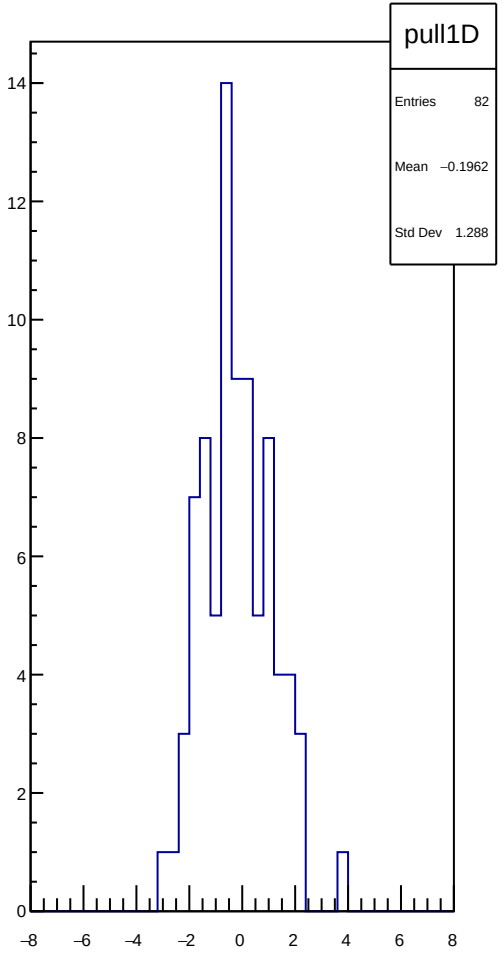

pull1D
Entries 82
Mean 0.03103
Std Dev 1.279


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 234.1 / 81
p0 −3.415 ± 0.1905
pull
Entries 82
Mean −55.3
Std Dev 80.43


pull1D
Entries 82
Mean −0.1765
Std Dev 1.68


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 126.1 / 81
p0 −1.112 ± 0.3078
pull
Entries 82
Mean 225.5
Std Dev 162.7
pull1D
Entries 82
Mean −0.0267
Std Dev 1.24


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 139.3 / 81
p0 0.2663 ± 0.01366
pull
Entries 82
Mean 88.17
Std Dev 50.79


pull1D
Entries 82
Mean −0.1962
Std Dev 1.288