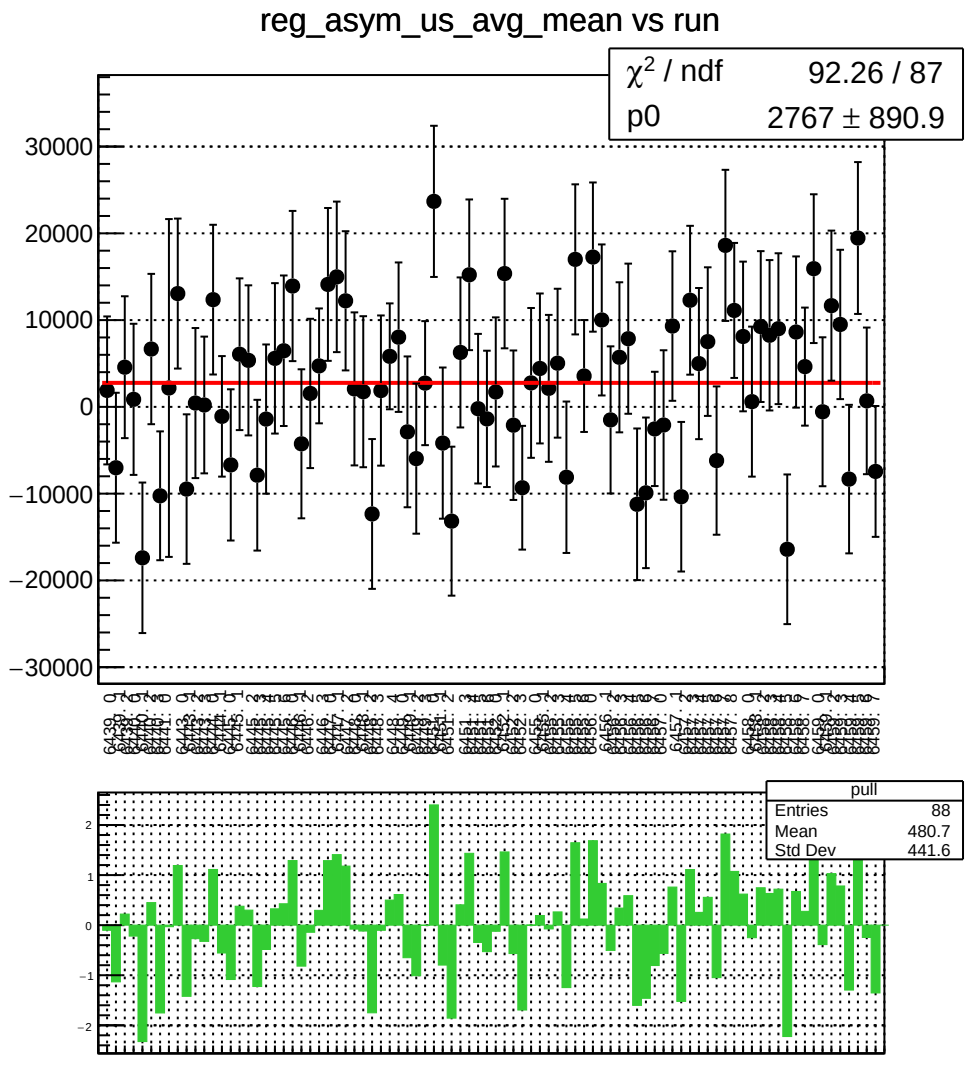
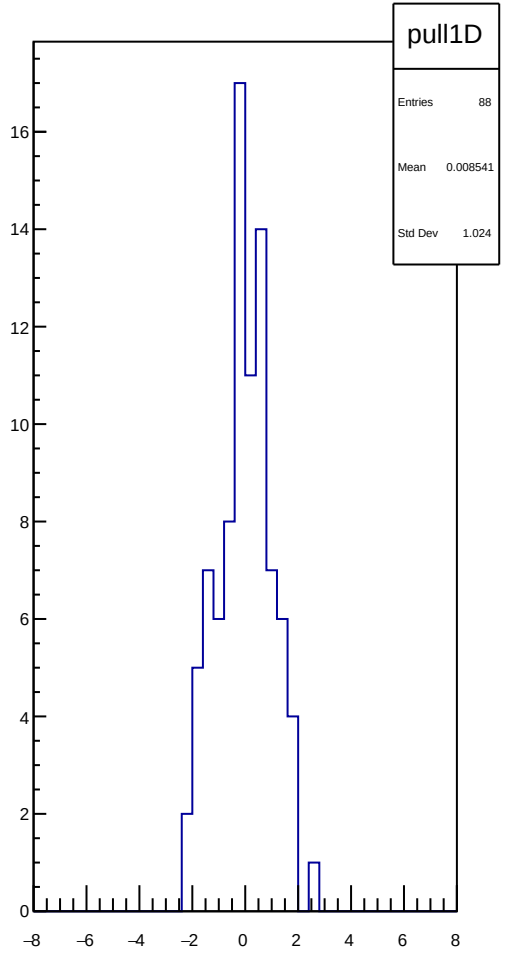
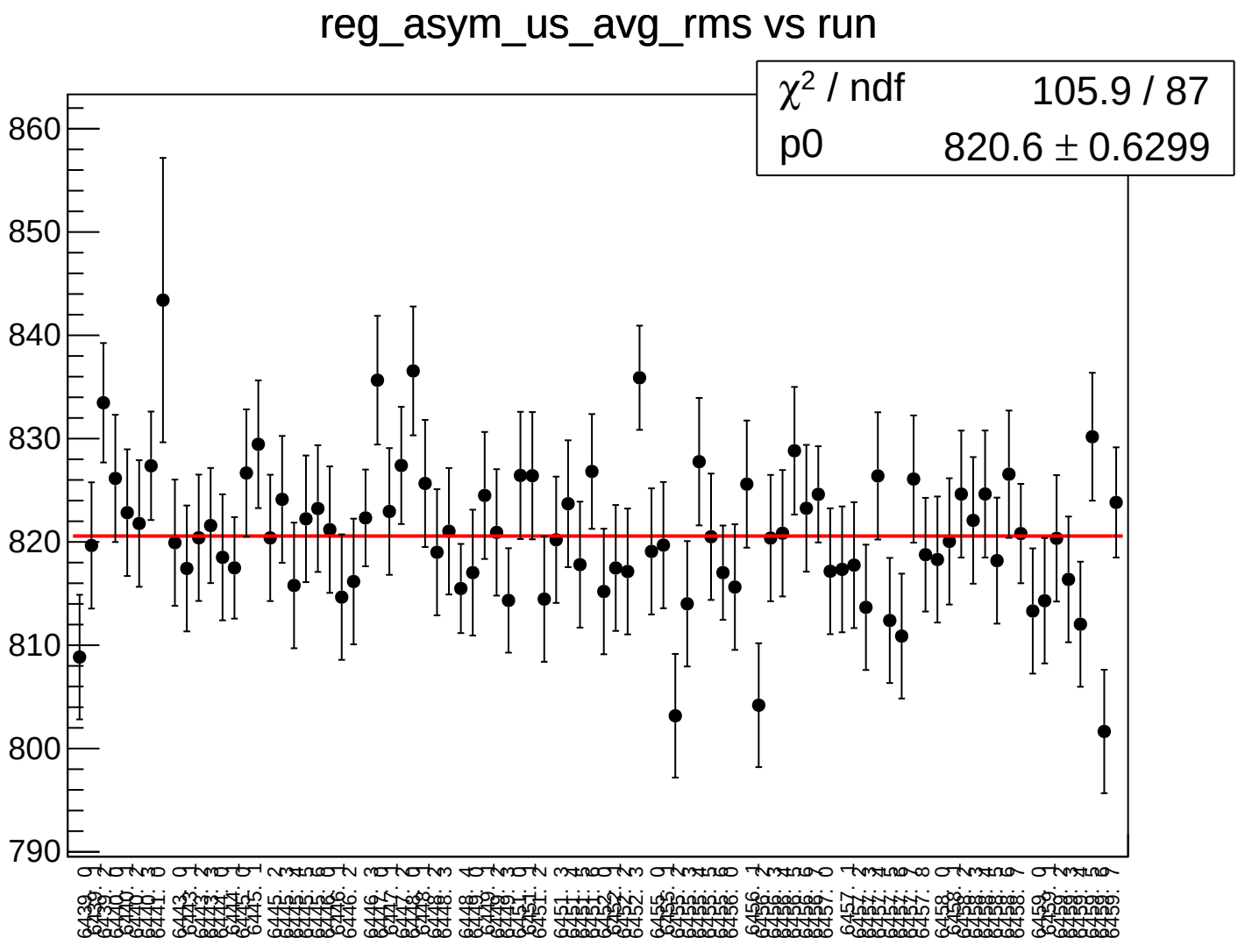
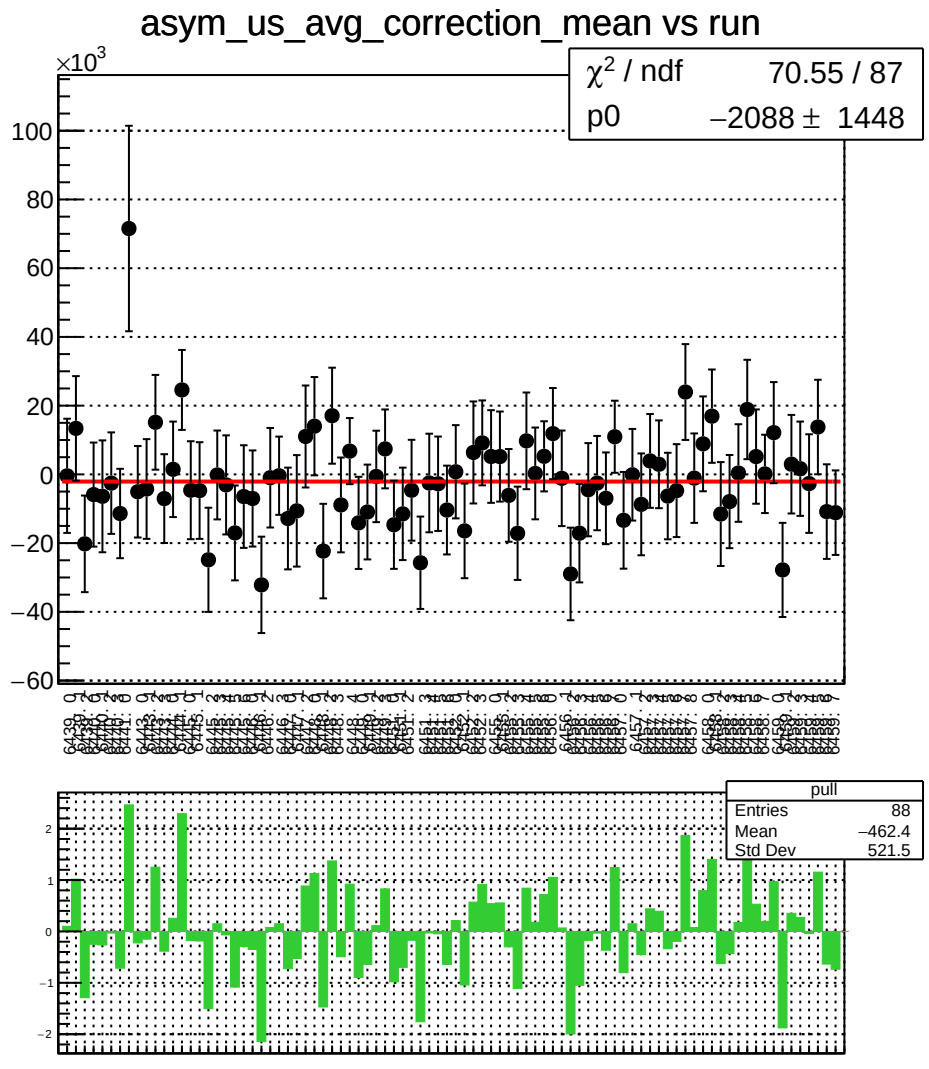
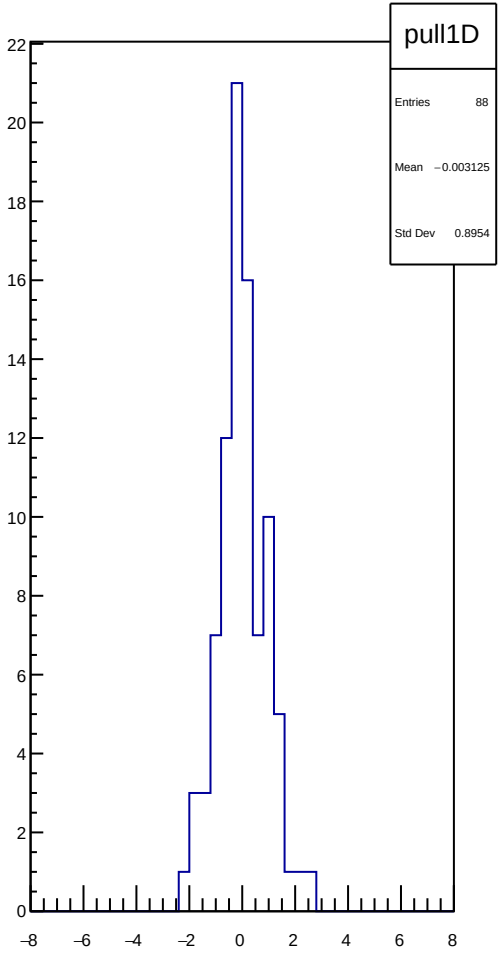
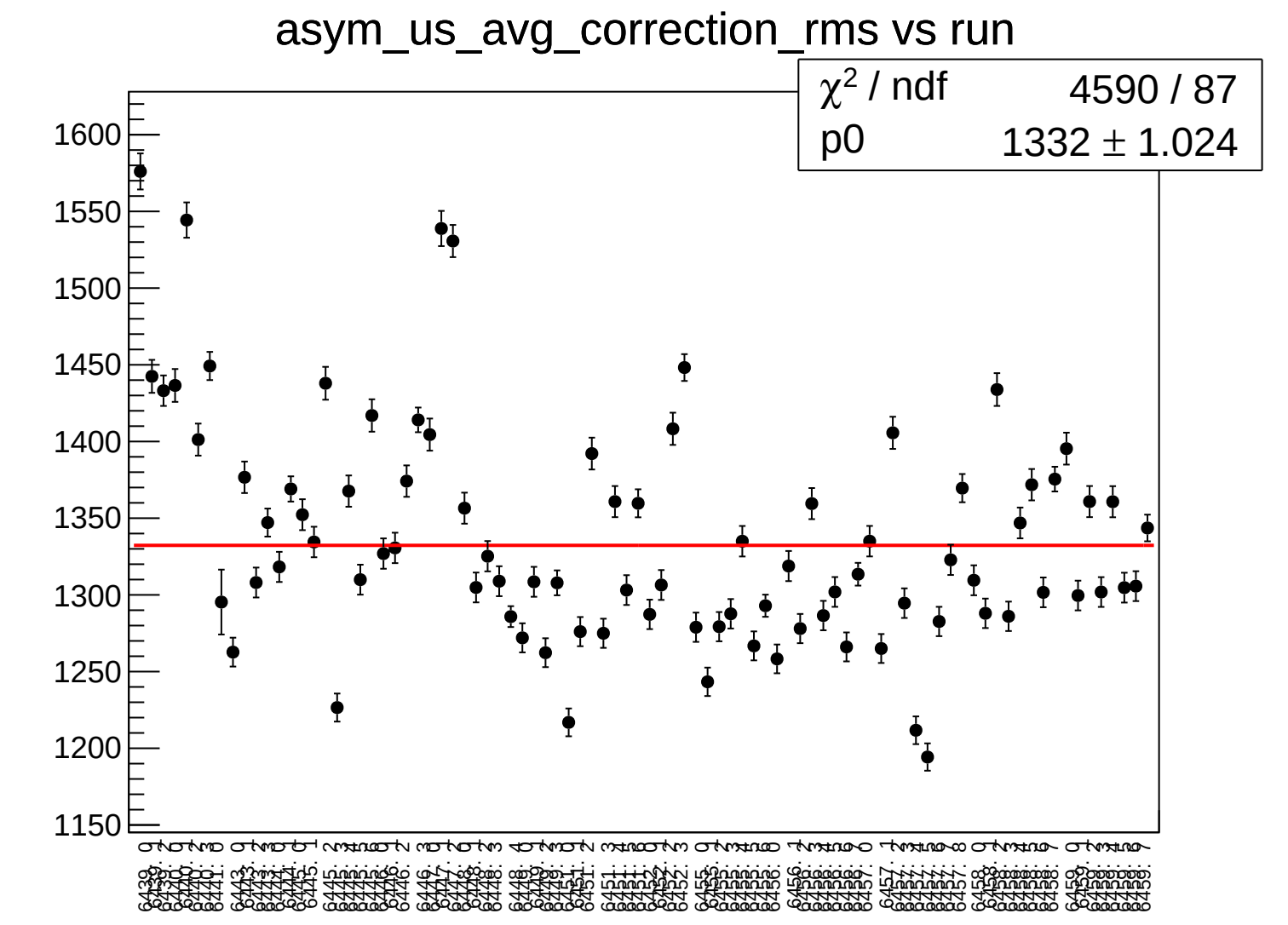

reg_asym_us_avg_mean vs run
χ² / ndf 92.26 / 87
p0 2767 ± 890.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 480.7
Std Dev 441.6
2
1
0
−1
−2

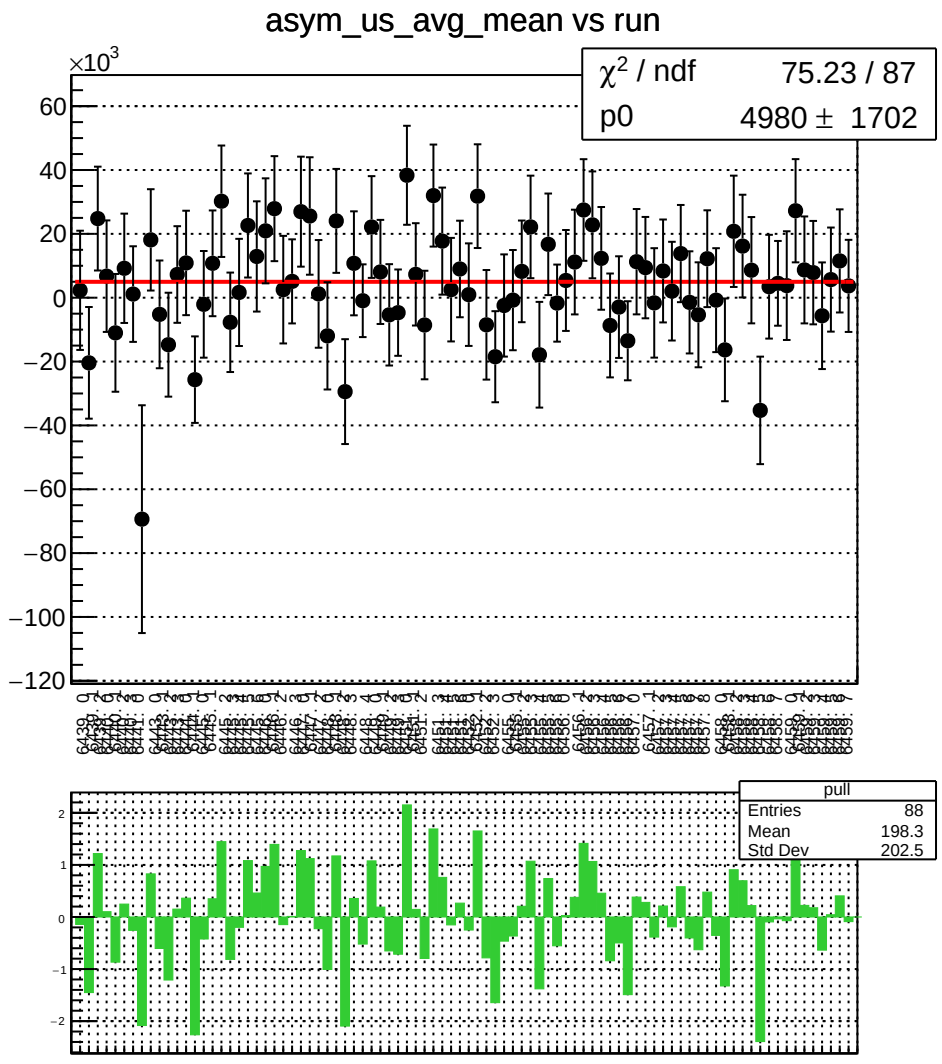

pull1D
Entries 88
Mean 0.008541
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

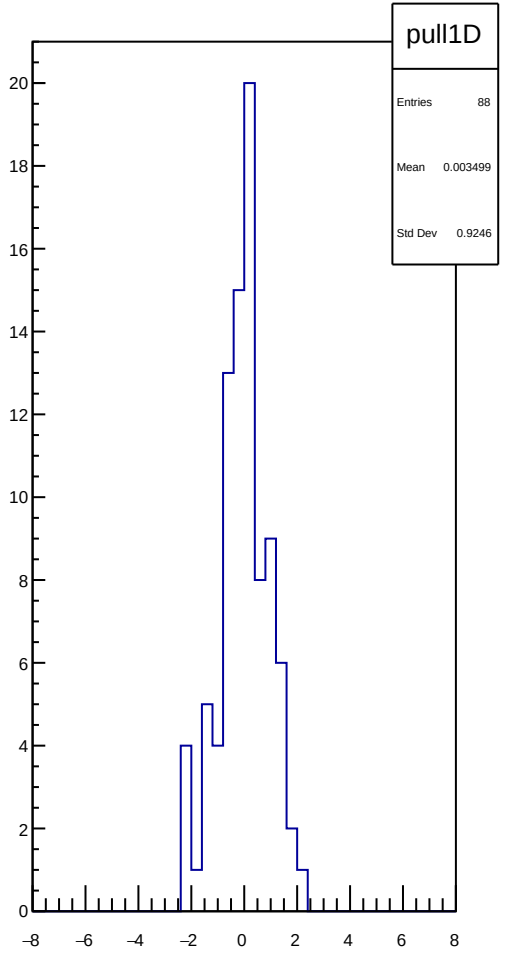

reg_asym_us_avg_rms vs run
χ² / ndf 105.9 / 87
p0 820.6 ± 0.6299
860
850
840
830
820
810
800
790

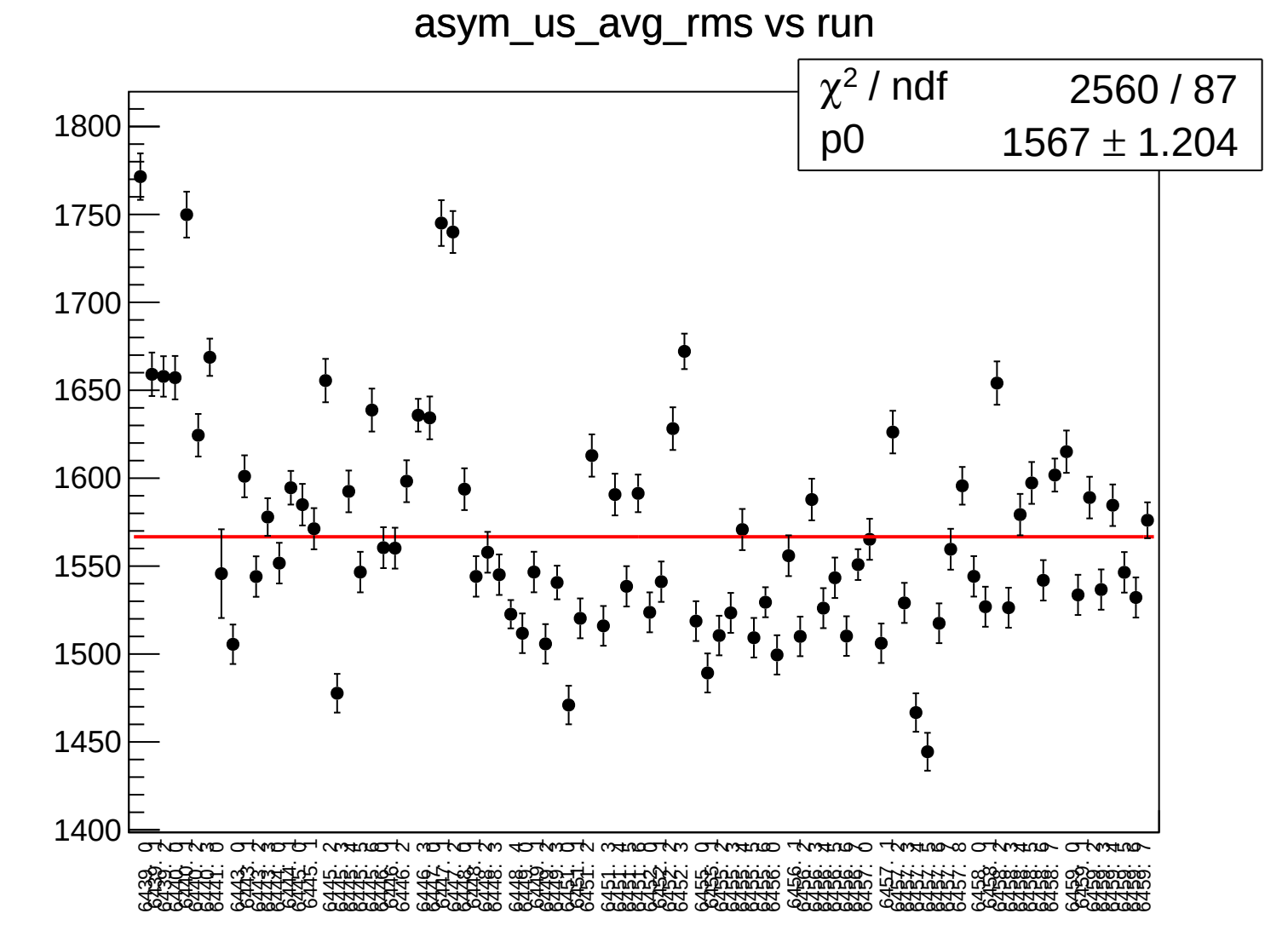

asym_us_avg_correction_mean vs run
×10^3
χ² / ndf 70.55 / 87
p0 −2088 ± 1448
pull
Entries 88
Mean −462.4
Std Dev 521.5

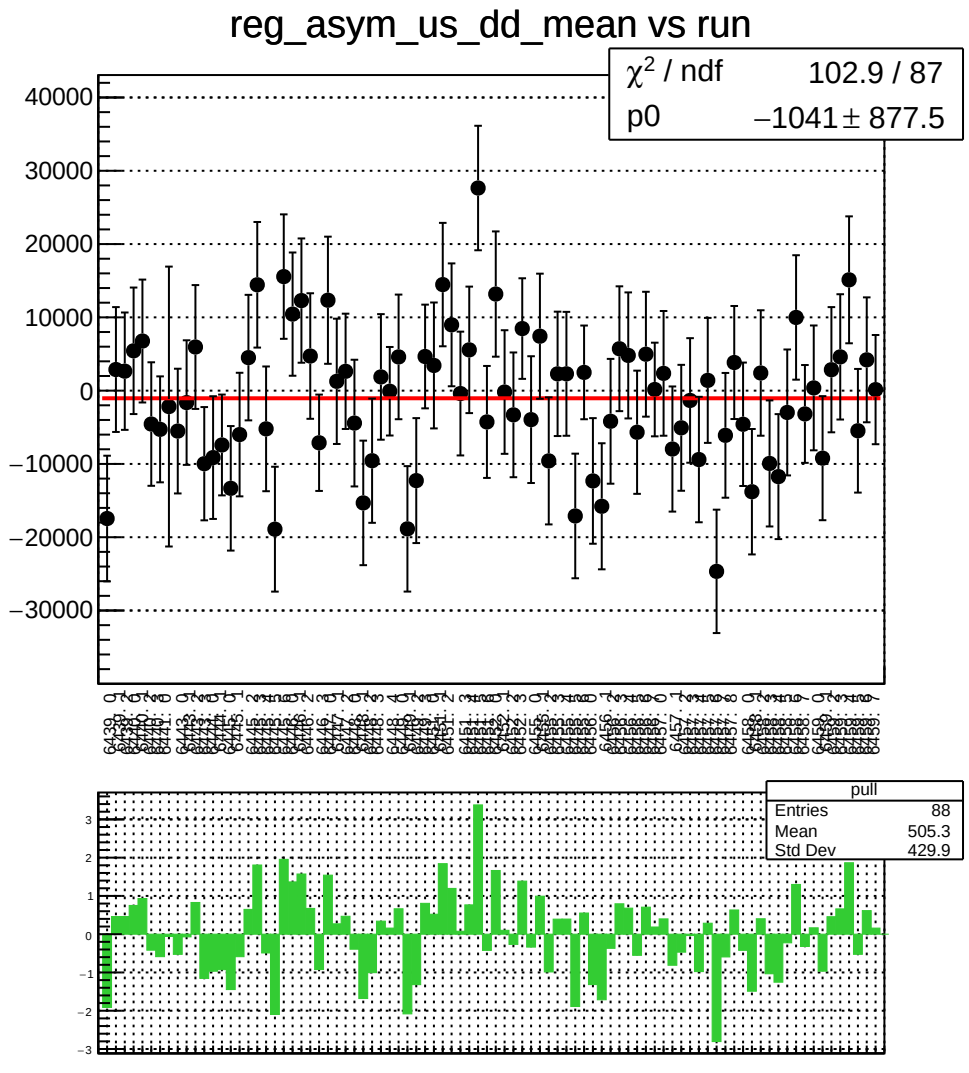

pull1D
Entries 88
Mean −0.003125
Std Dev 0.8954

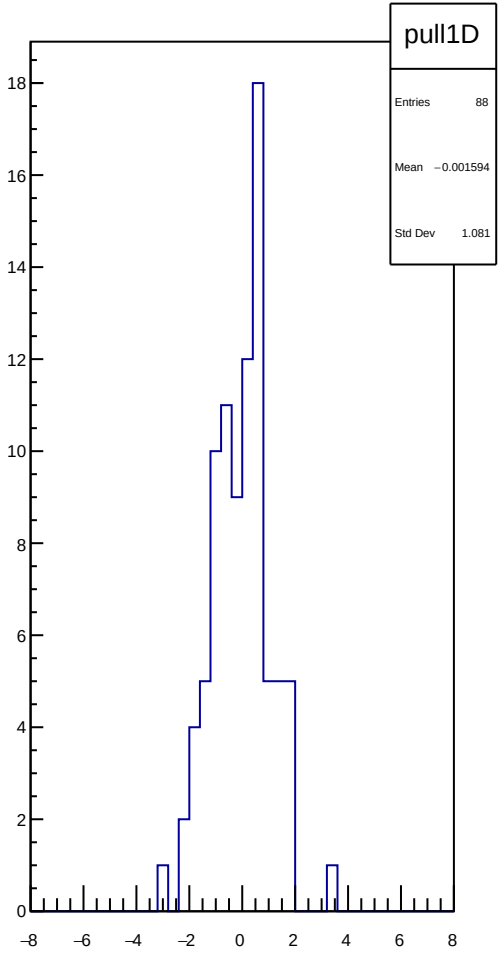

asym_us_avg_correction_rms vs run
χ² / ndf 4590 / 87
p0 1332 ± 1.024
1600
1550
1500
1450
1400
1350
1300
1250
1200
1150

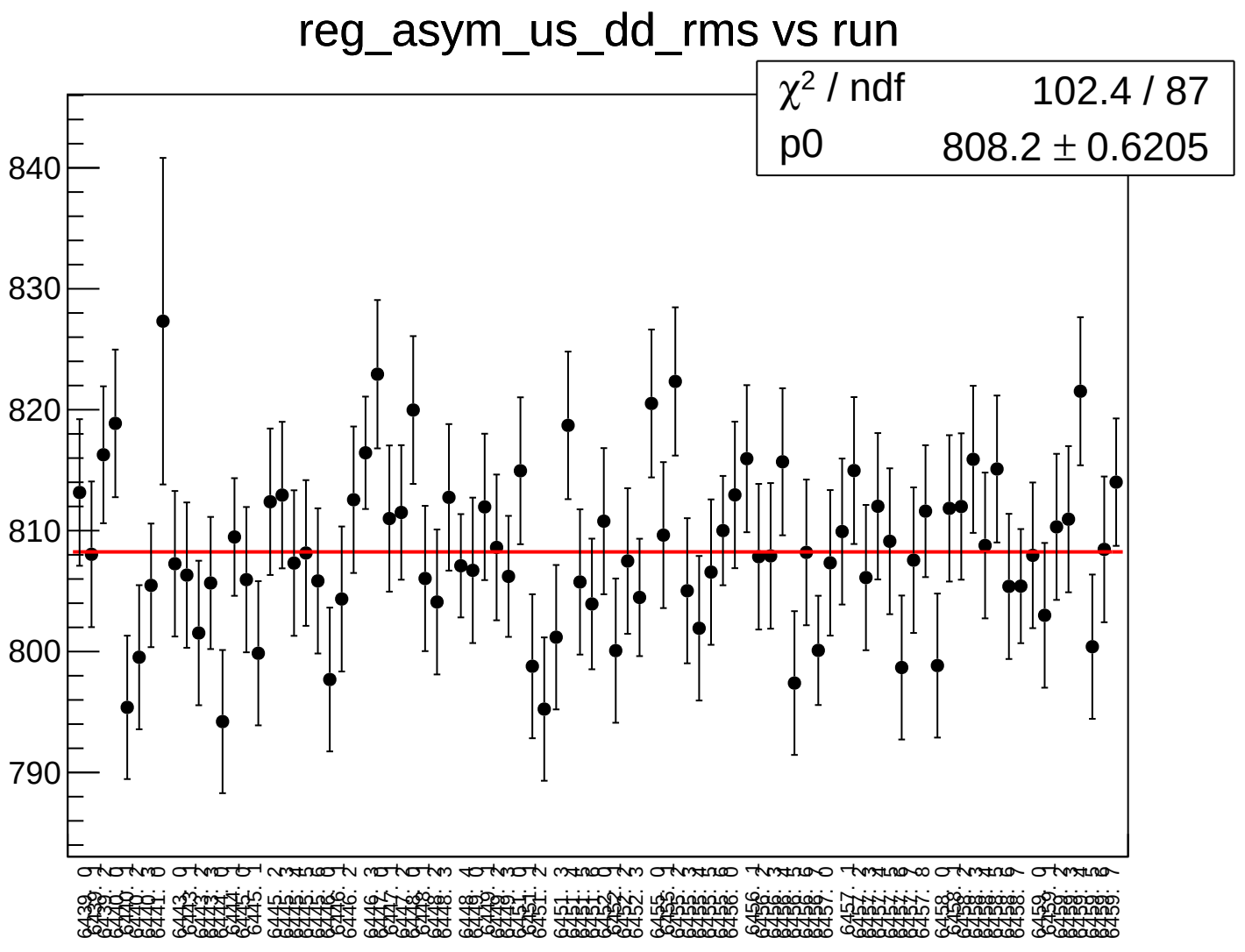

asym_us_avg_mean vs run
×10^3
χ^2 / ndf 75.23 / 87
p0 4980 ± 1702
pull
Entries 88
Mean 198.3
Std Dev 202.5

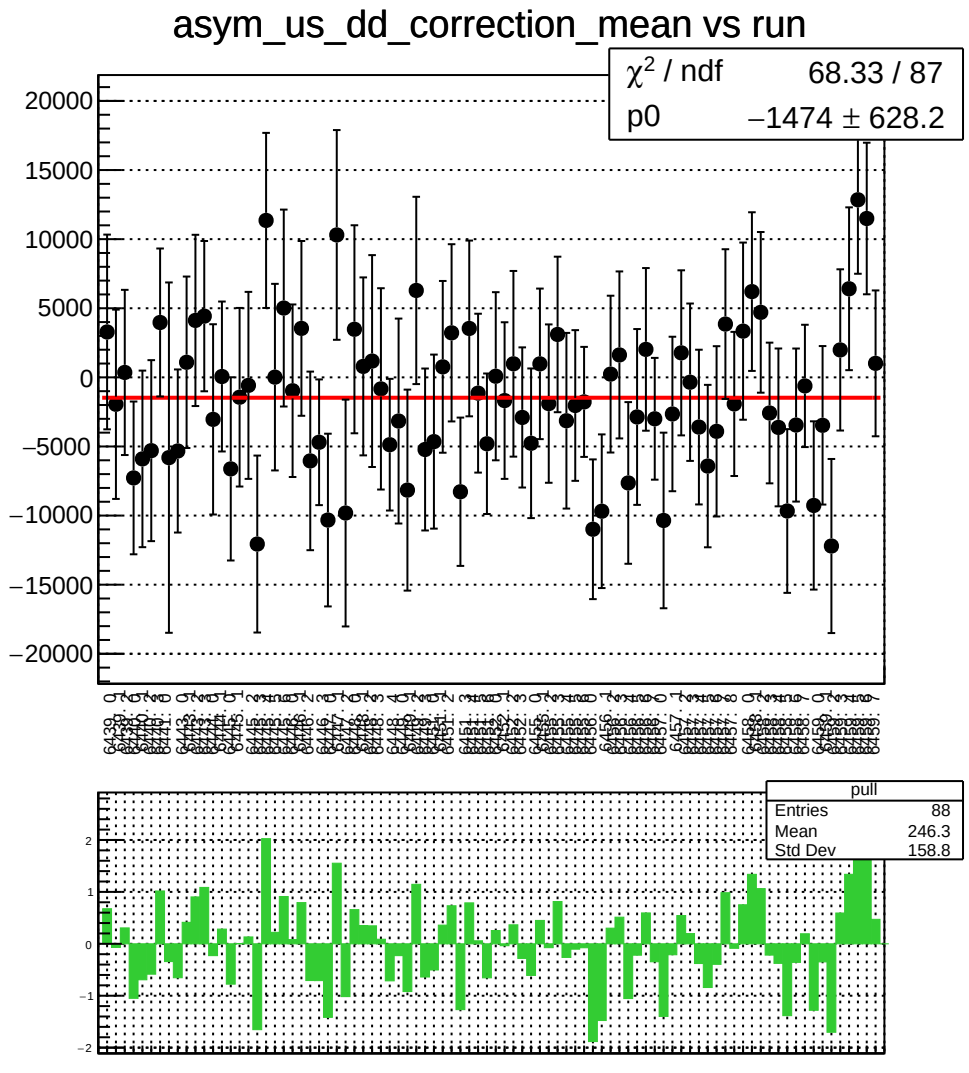

pull1D
Entries 88
Mean 0.003499
Std Dev 0.9246

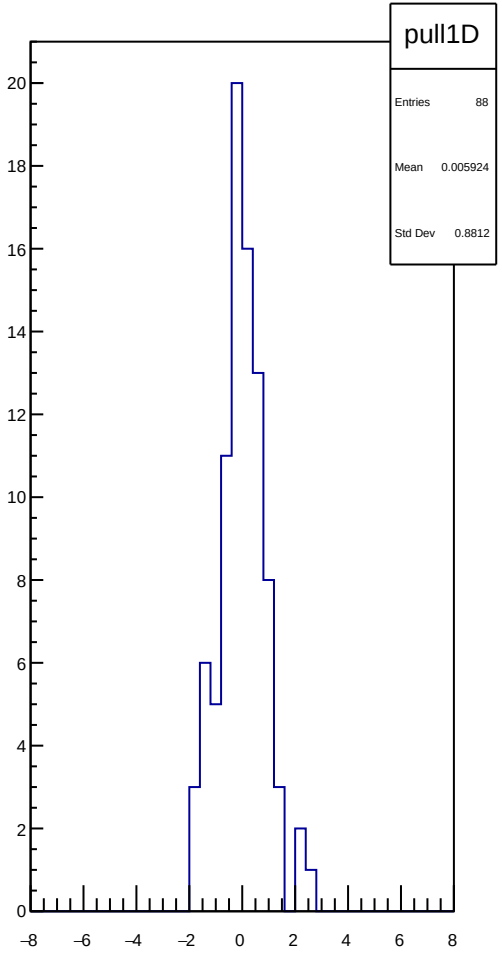

asym_us_avg_rms vs run
χ² / ndf 2560 / 87
p0 1567 ± 1.204
1800
1750
1700
1650
1600
1550
1500
1450
1400

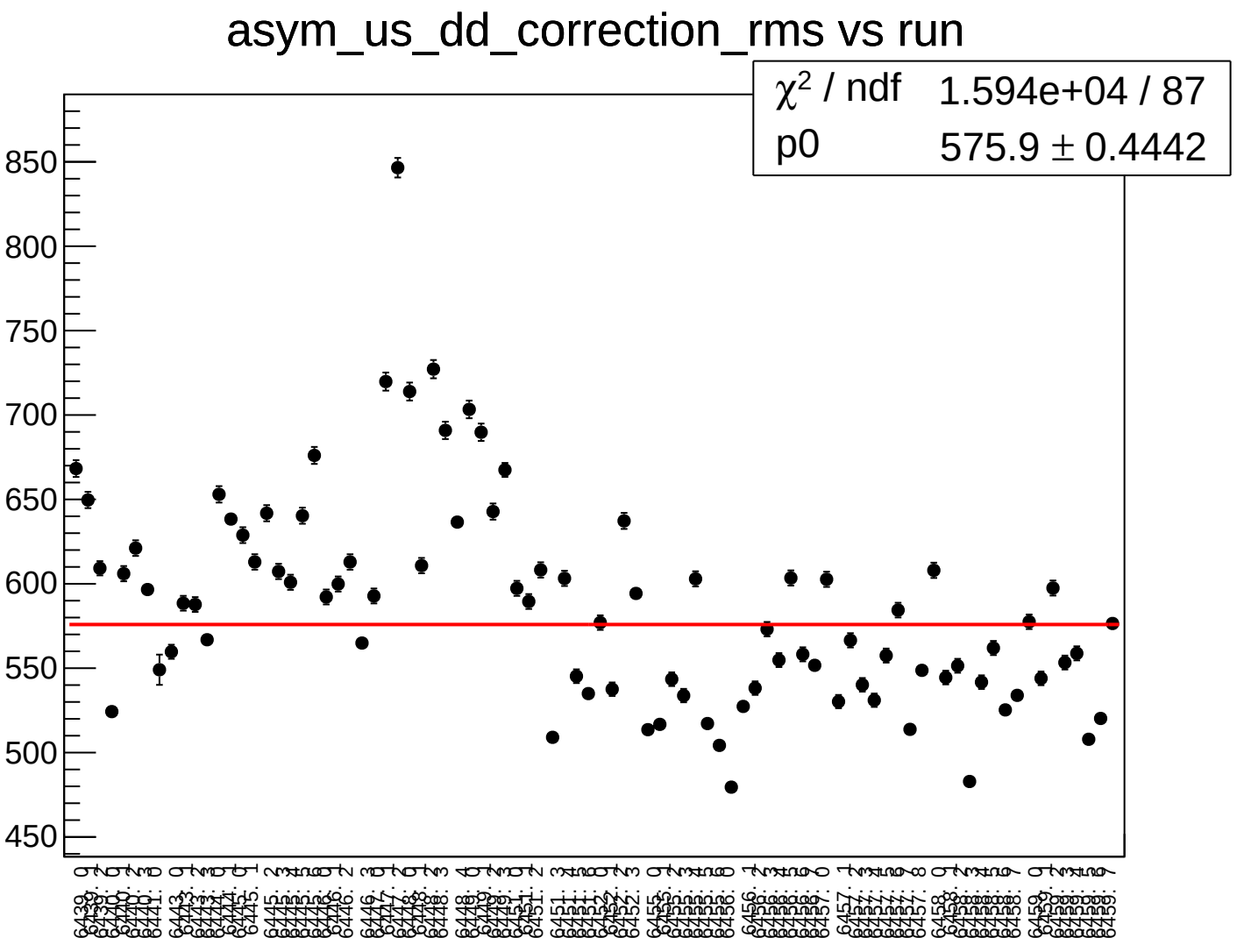

reg_asym_us_dd_mean vs run
χ² / ndf 102.9 / 87
p0 −1041 ± 877.5
pull
Entries 88
Mean 505.3
Std Dev 429.9

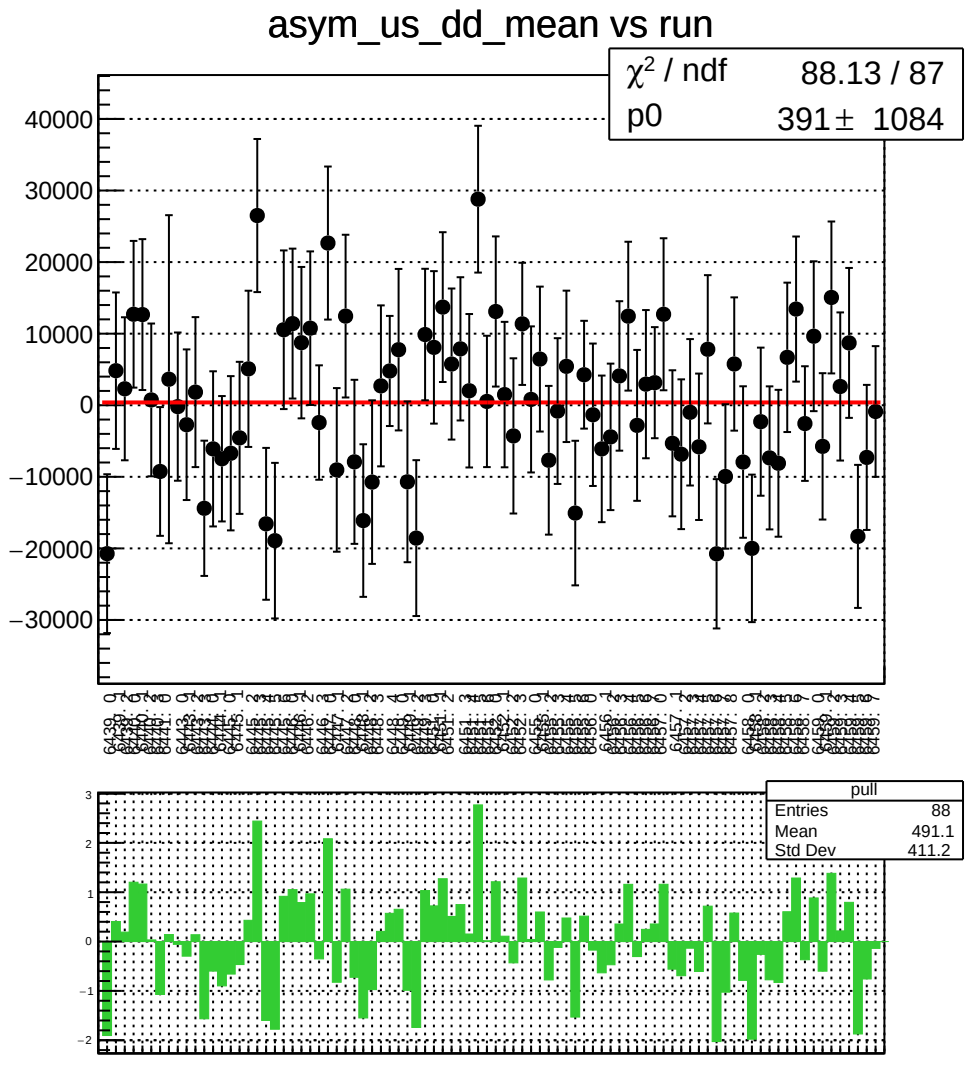

pull1D
Entries 88
Mean −0.001594
Std Dev 1.081

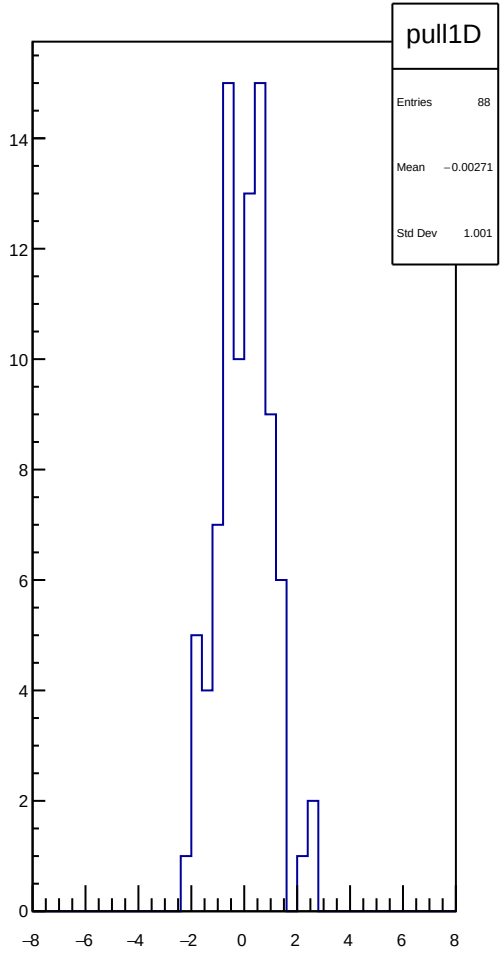

reg_asym_us_dd_rms vs run
χ² / ndf 102.4 / 87
p0 808.2 ± 0.6205
840
830
820
810
800
790

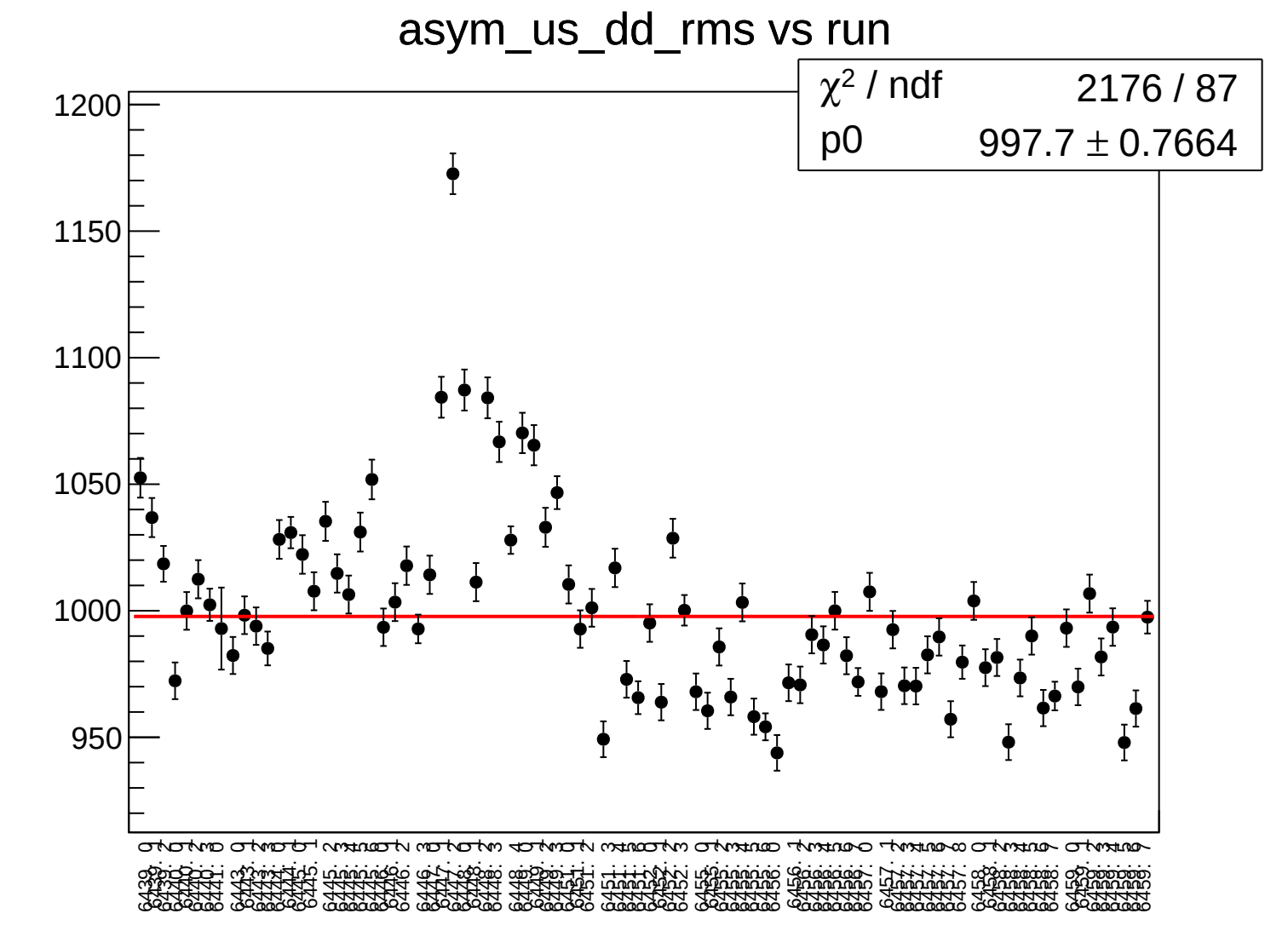

asym_us_dd_correction_mean vs run
χ² / ndf 68.33 / 87
p0 −1474 ± 628.2
pull
Entries 88
Mean 246.3
Std Dev 158.8

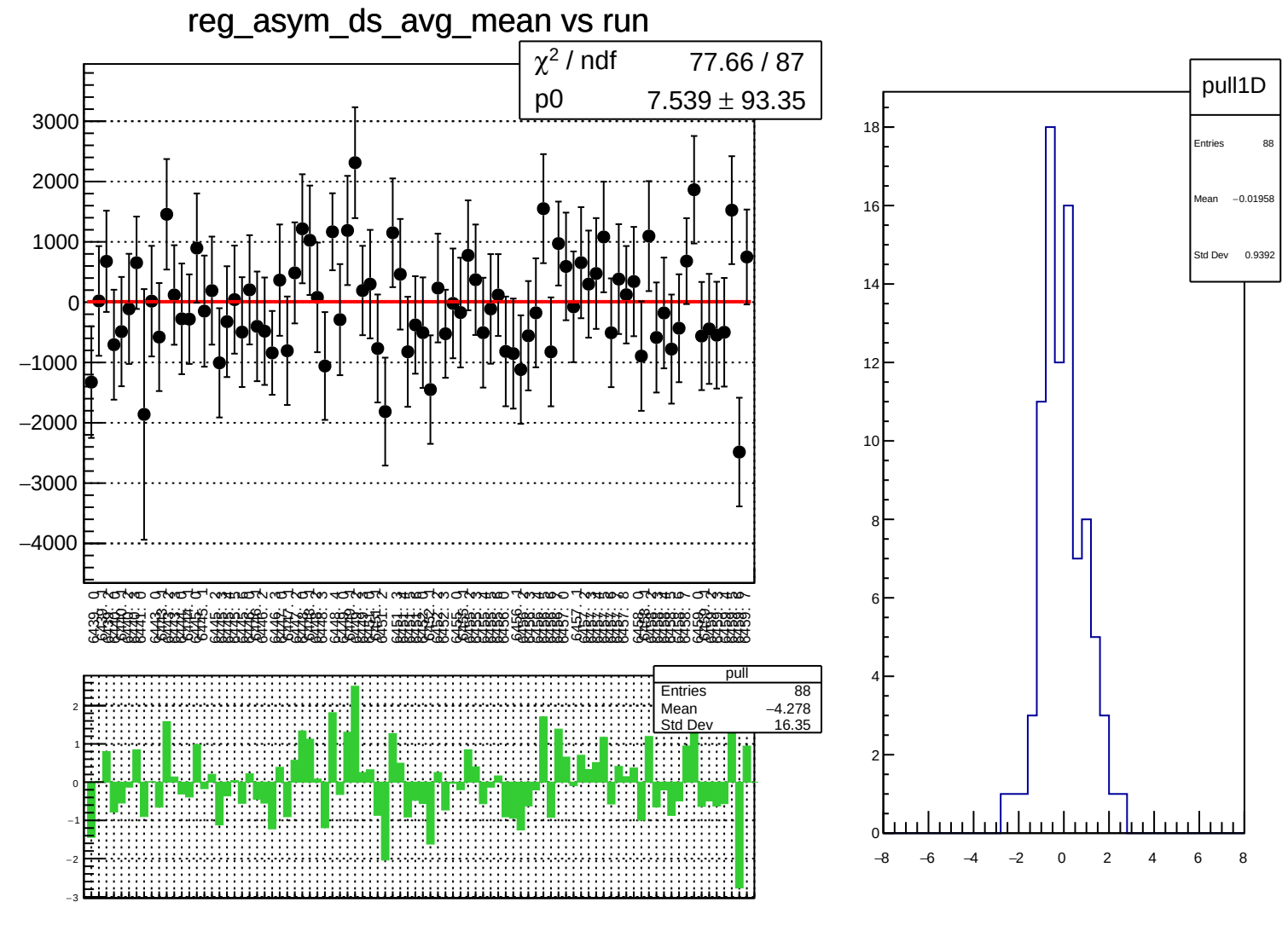

pull1D
Entries 88
Mean 0.005924
Std Dev 0.8812

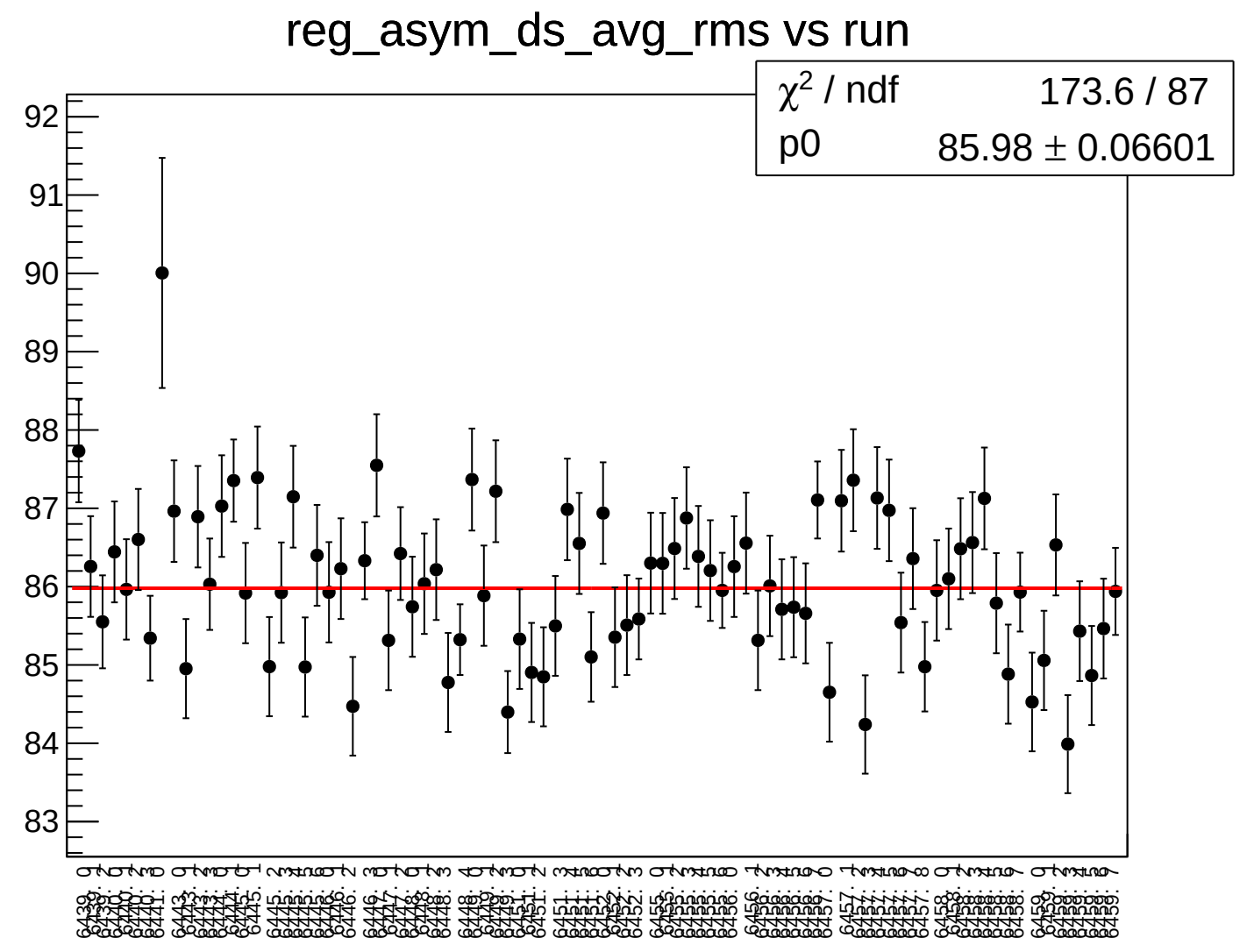

asym_us_dd_correction_rms vs run
χ² / ndf 1.594e+04 / 87
p0 575.9 ± 0.4442
850
800
750
700
650
600
550
500
450

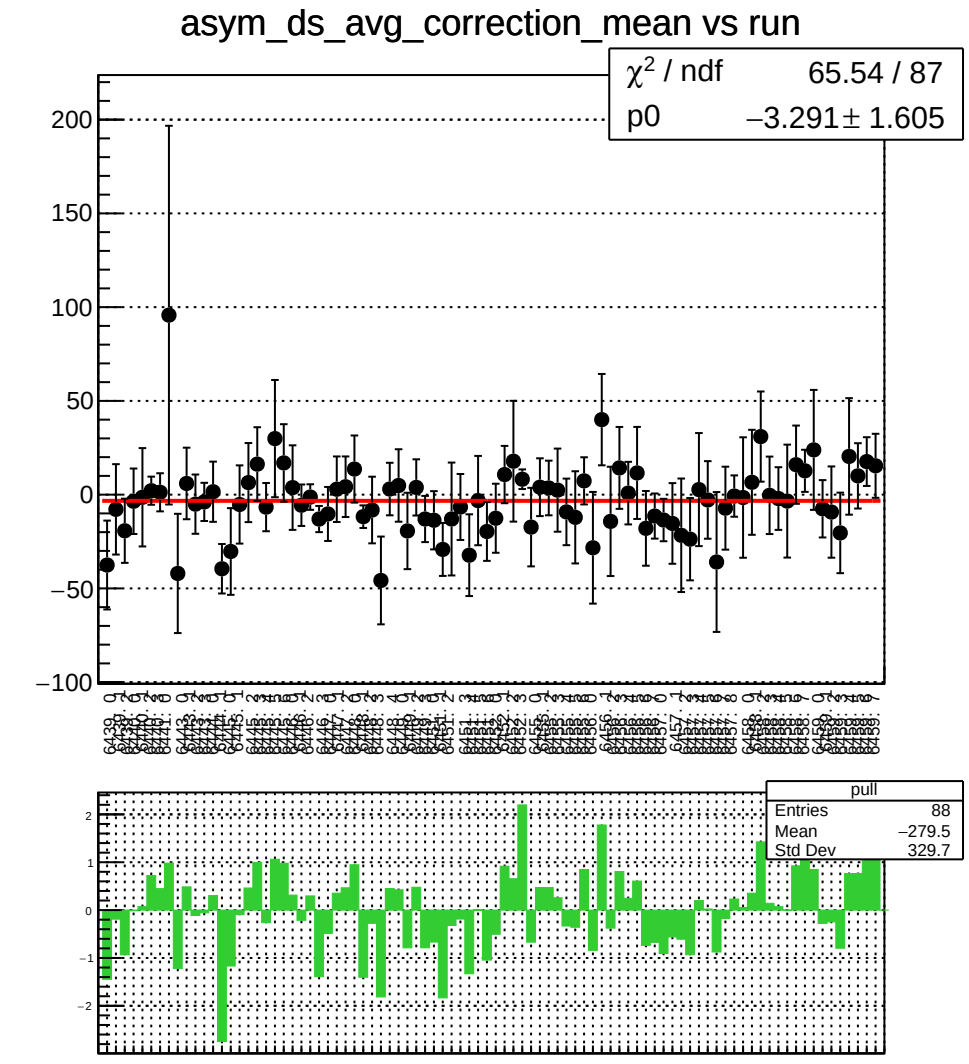

asym_us_dd_mean vs run
χ² / ndf 88.13 / 87
p0 391 ± 1084
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 491.1
Std Dev 411.2
3
2
1
0
−1
−2

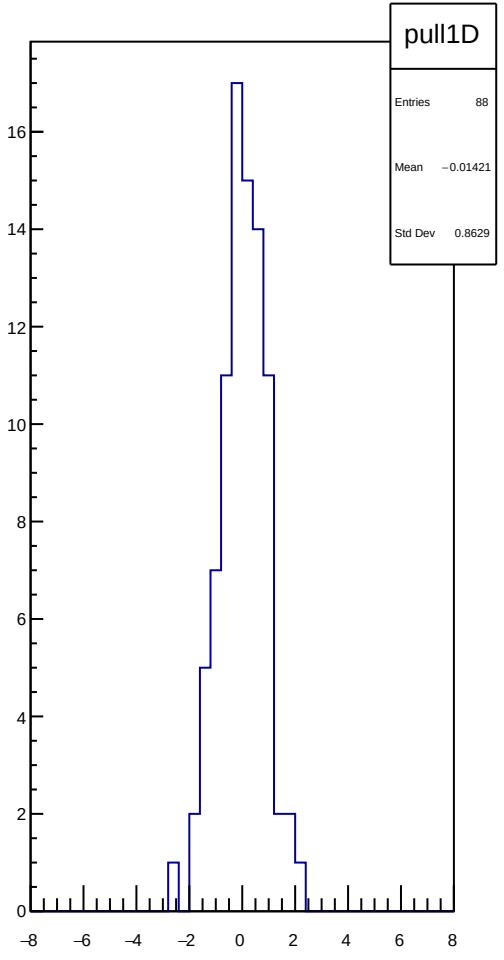

pull1D
Entries 88
Mean −0.00271
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

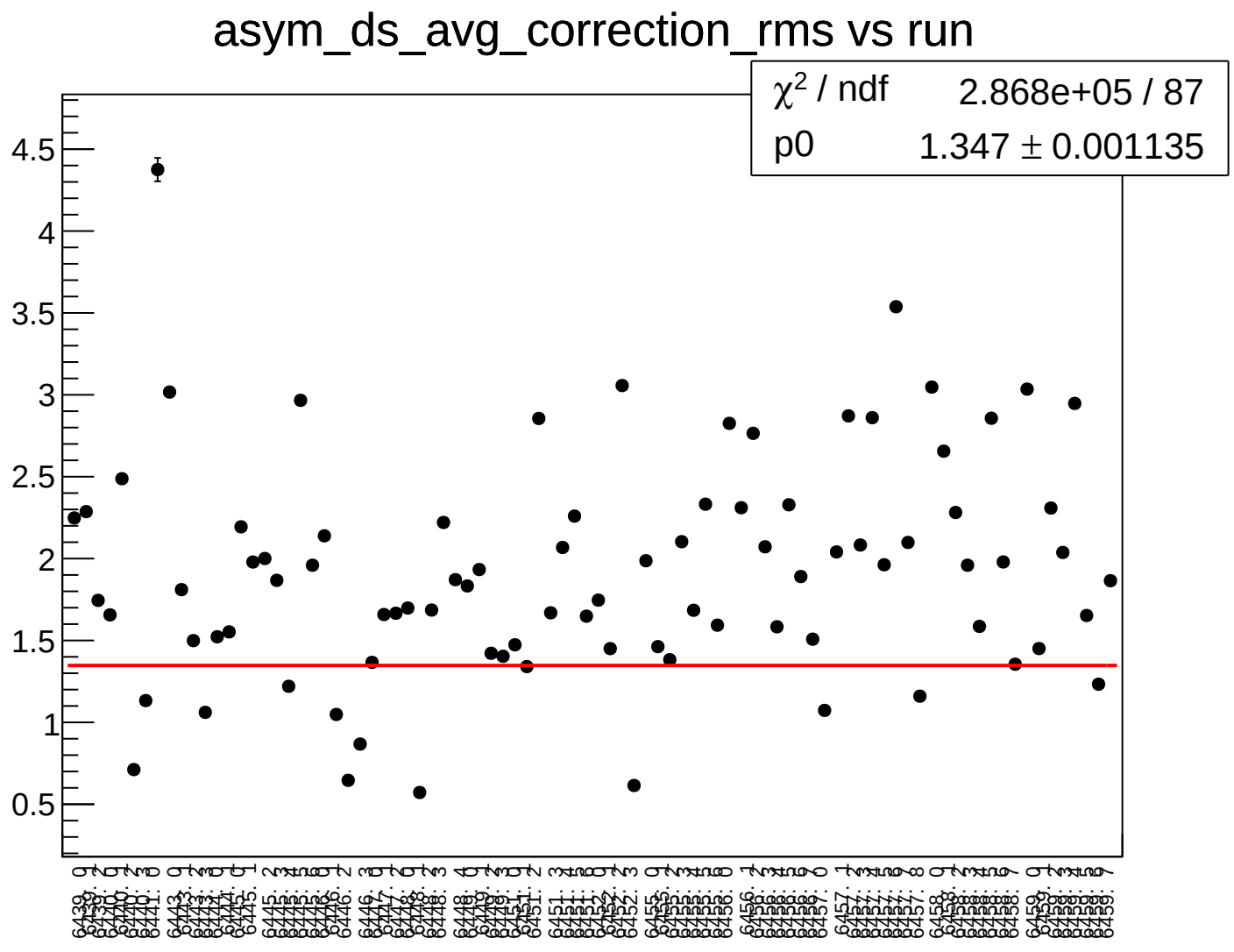

asym_us_dd_rms vs run
χ² / ndf 2176 / 87
p0 997.7 ± 0.7664
1200
1150
1100
1050
1000
950

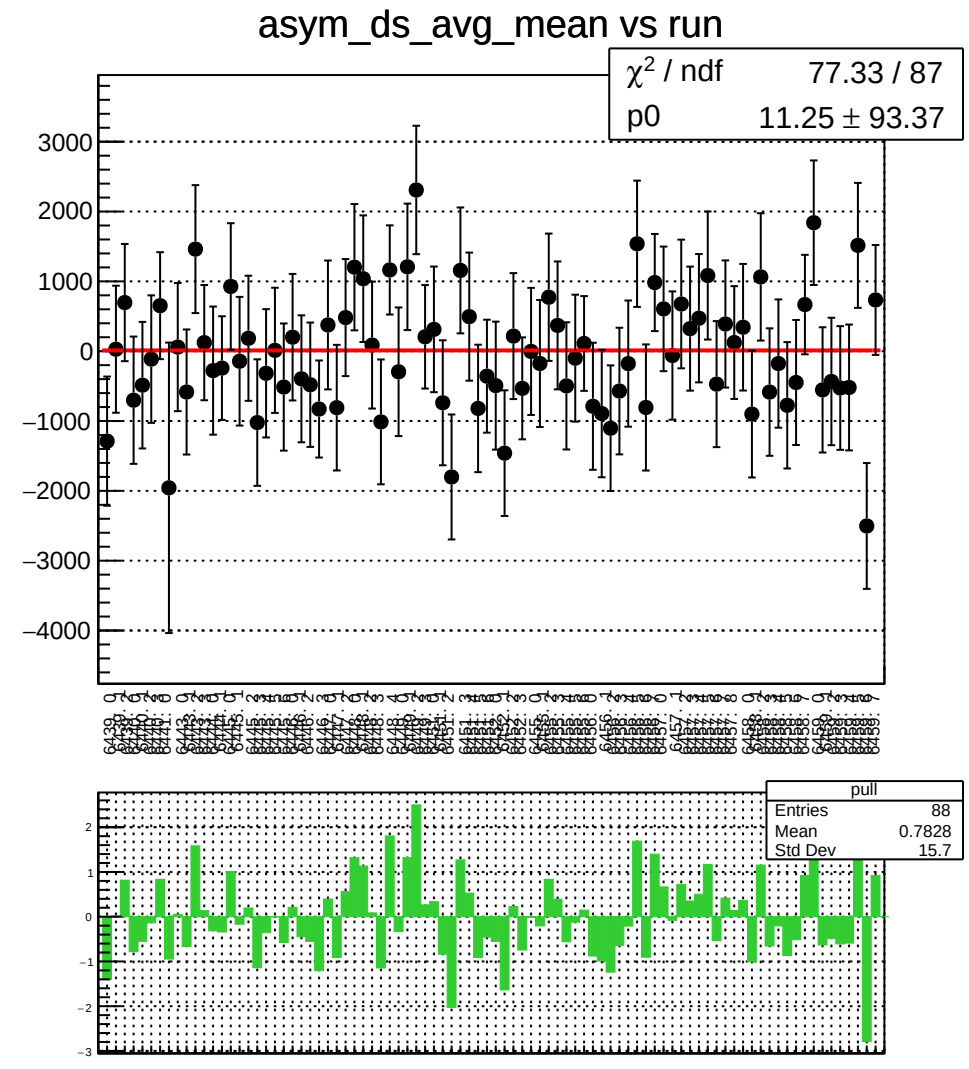

reg_asym_ds_avg_mean vs run
χ² / ndf 77.66 / 87
p0 7.539 ± 93.35
pull
Entries 88
Mean −4.278
Std Dev 16.35
pull1D
Entries 88
Mean −0.01958
Std Dev 0.9392

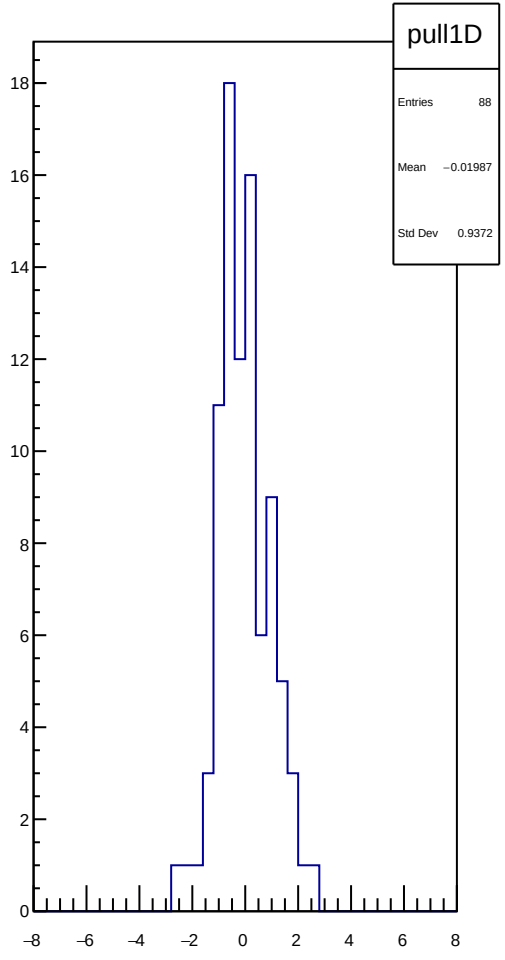

reg_asym_ds_avg_rms vs run
χ^2 / ndf 173.6 / 87
p0 85.98 ± 0.06601
92
91
90
89
88
87
86
85
84
83

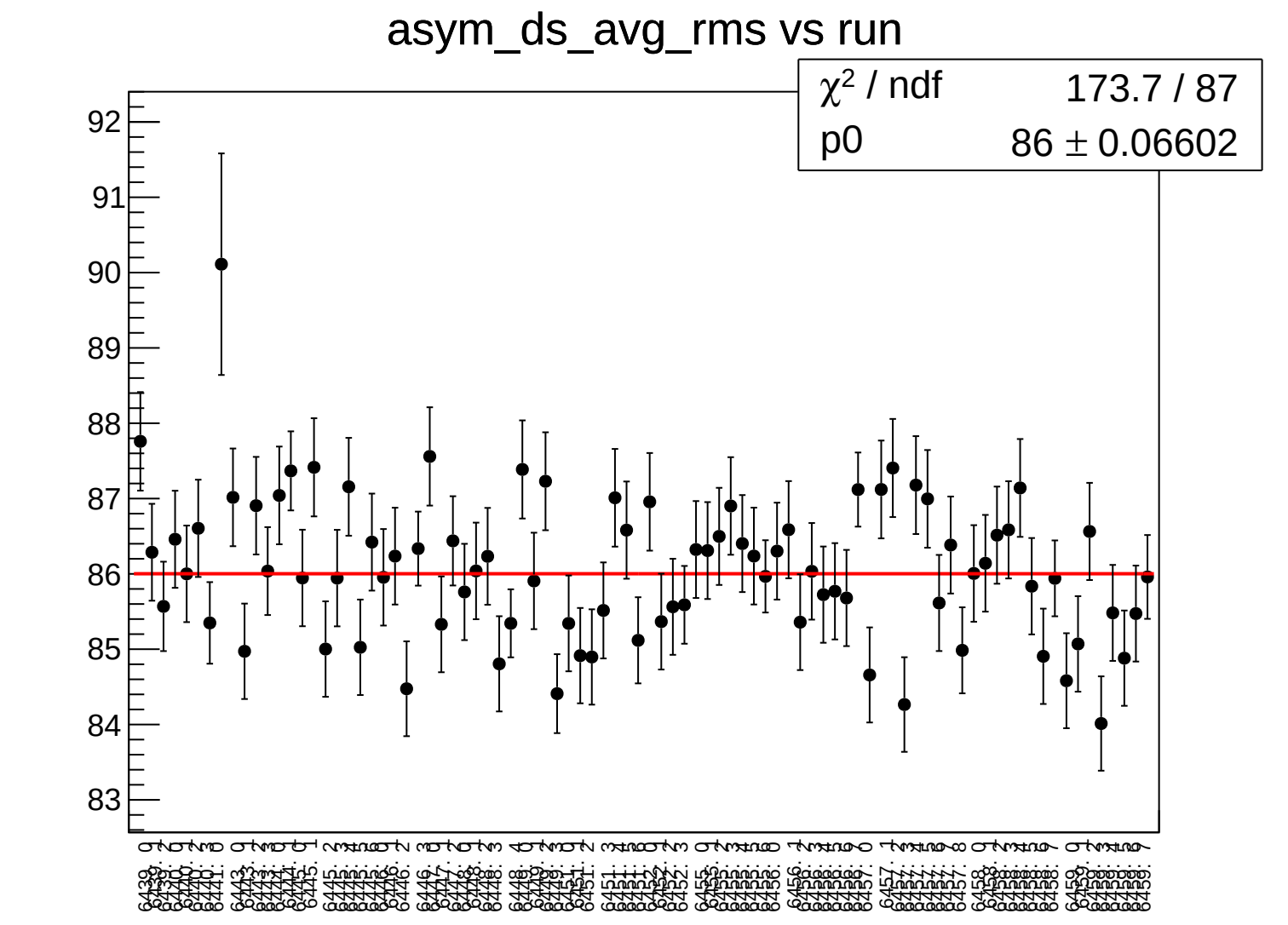

asym_ds_avg_correction_mean vs run
χ² / ndf 65.54 / 87
p0 −3.291 ± 1.605
pull
Entries 88
Mean −279.5
Std Dev 329.7

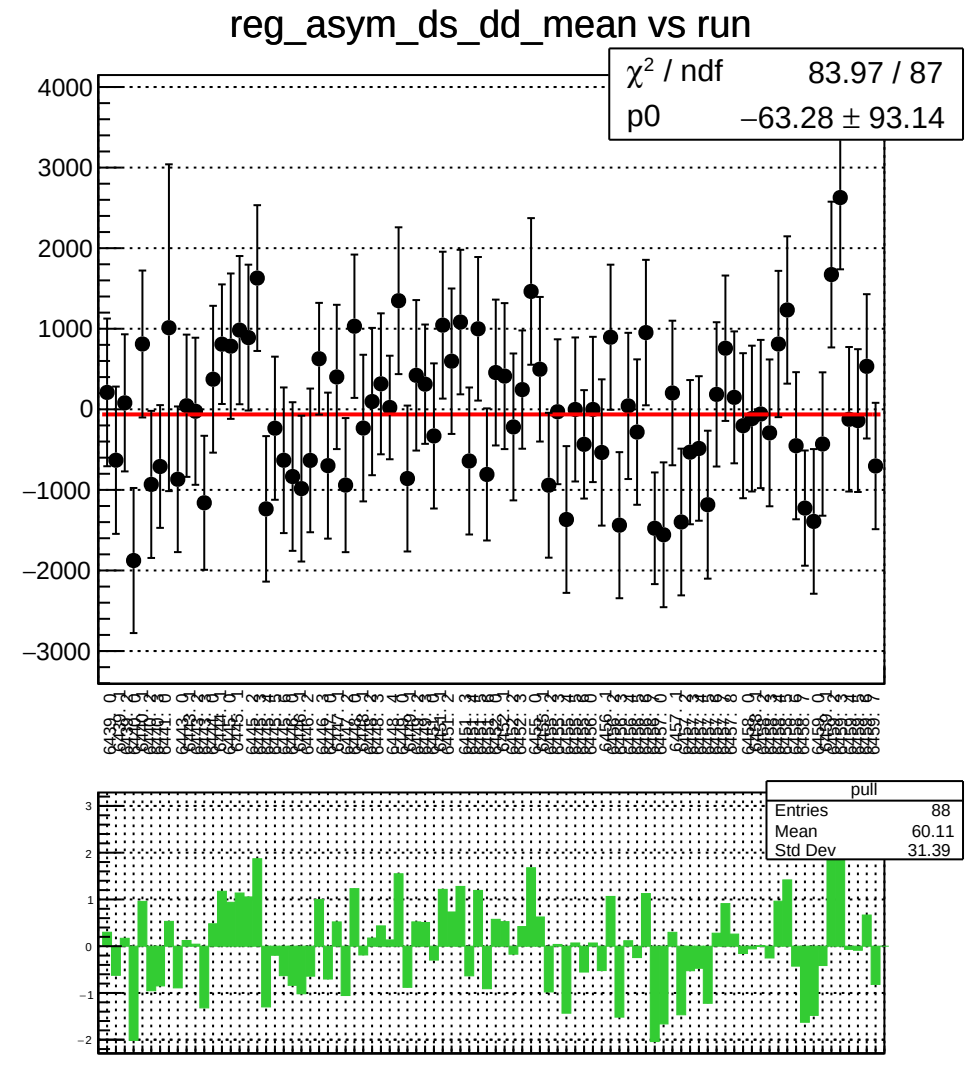

pull1D
Entries 88
Mean −0.01421
Std Dev 0.8629

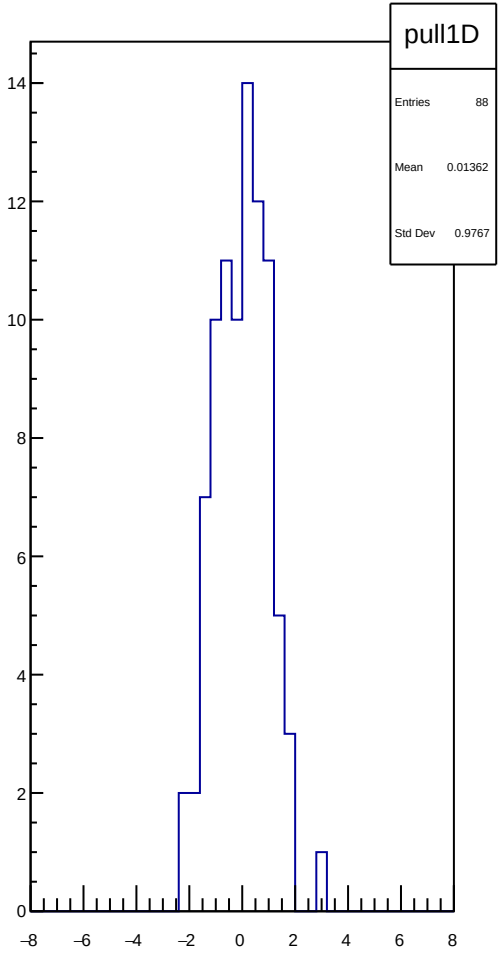

asym_ds_avg_correction_rms vs run
χ^2 / ndf 2.868e+05 / 87
p0 1.347 ± 0.001135
4.5
4
3.5
3
2.5
2
1.5
1
0.5

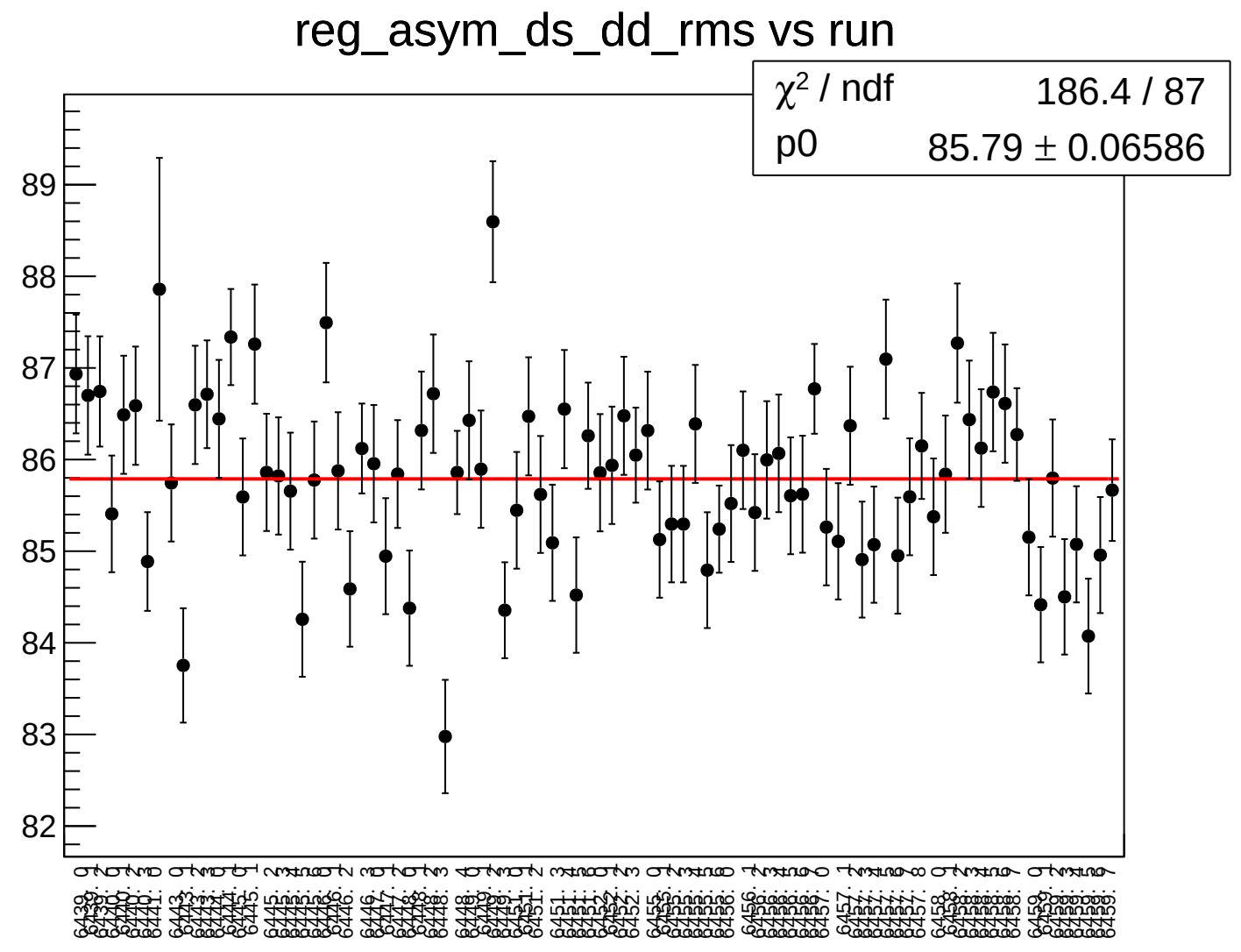

asym_ds_avg_mean vs run
χ² / ndf 77.33 / 87
p0 11.25 ± 93.37
pull
Entries 88
Mean 0.7828
Std Dev 15.7

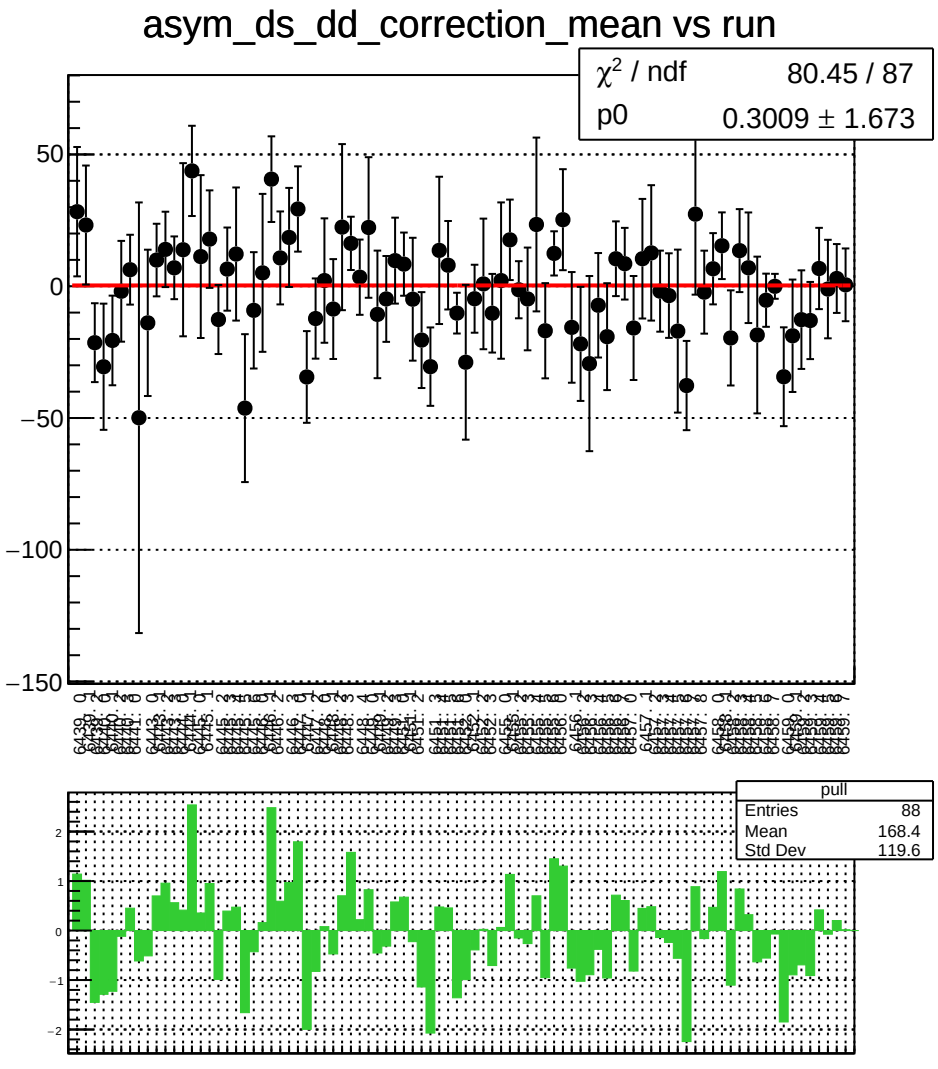

pull1D
Entries 88
Mean −0.01987
Std Dev 0.9372

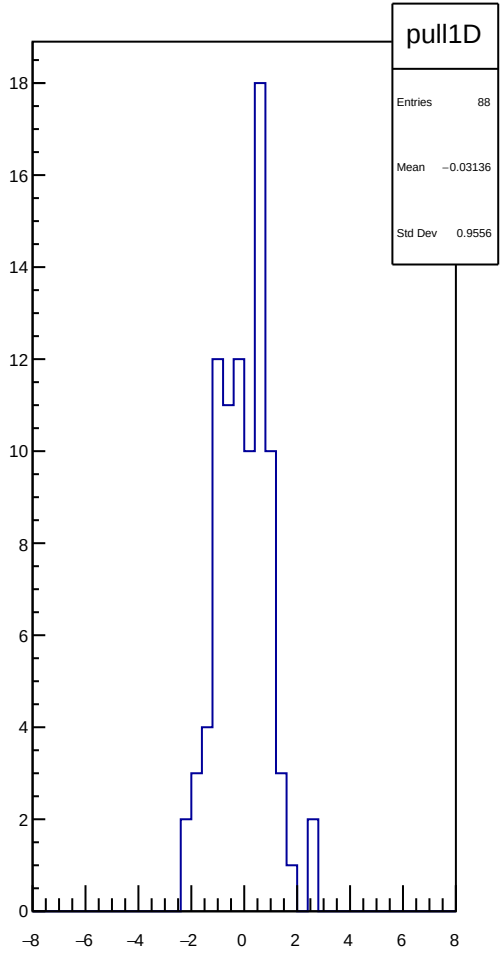

asym_ds_avg_rms vs run
χ^2 / ndf 173.7 / 87
p0 86 ± 0.06602
92
91
90
89
88
87
86
85
84
83

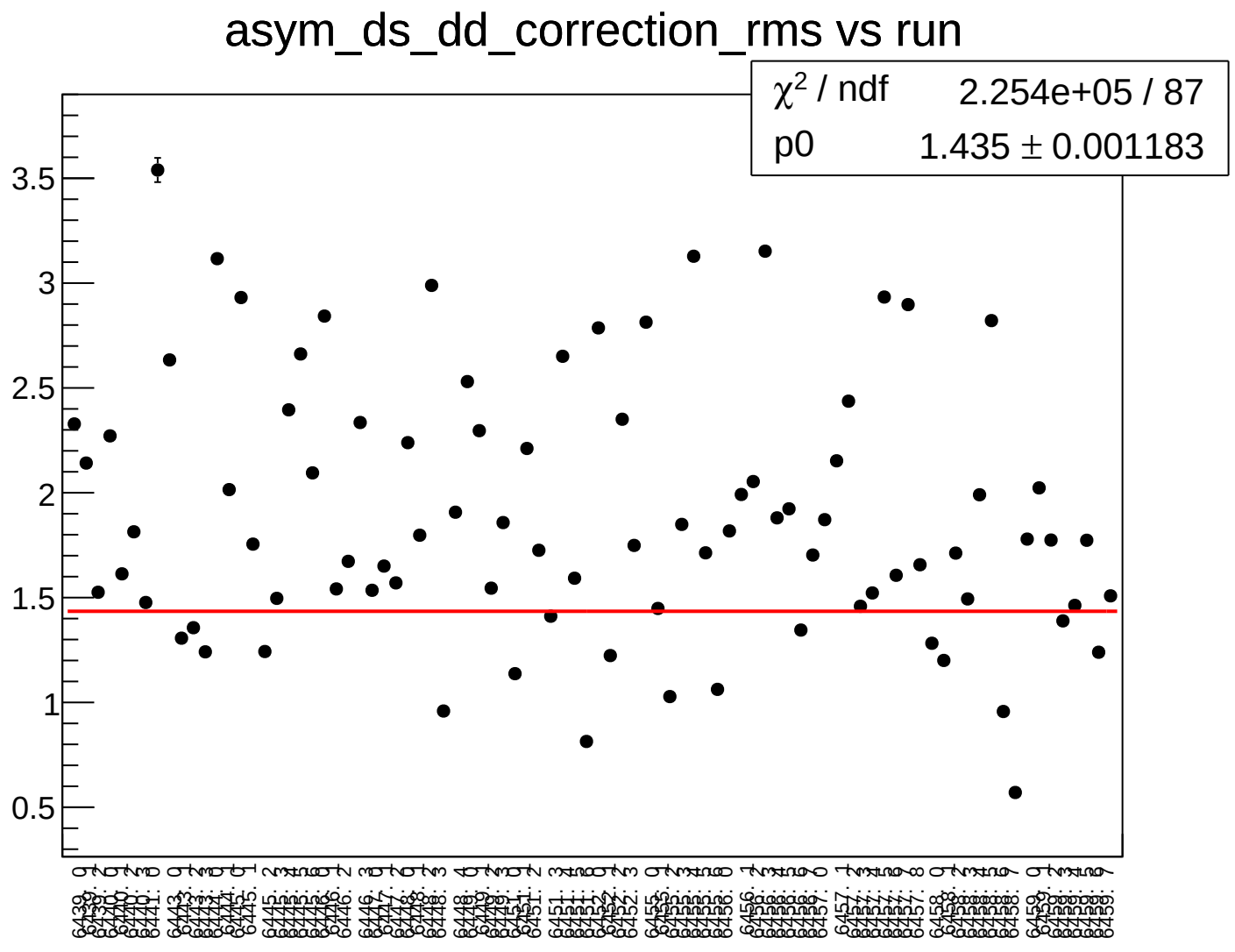

reg_asym_ds_dd_mean vs run
χ² / ndf 83.97 / 87
p0 −63.28 ± 93.14
pull
Entries 88
Mean 60.11
Std Dev 31.39

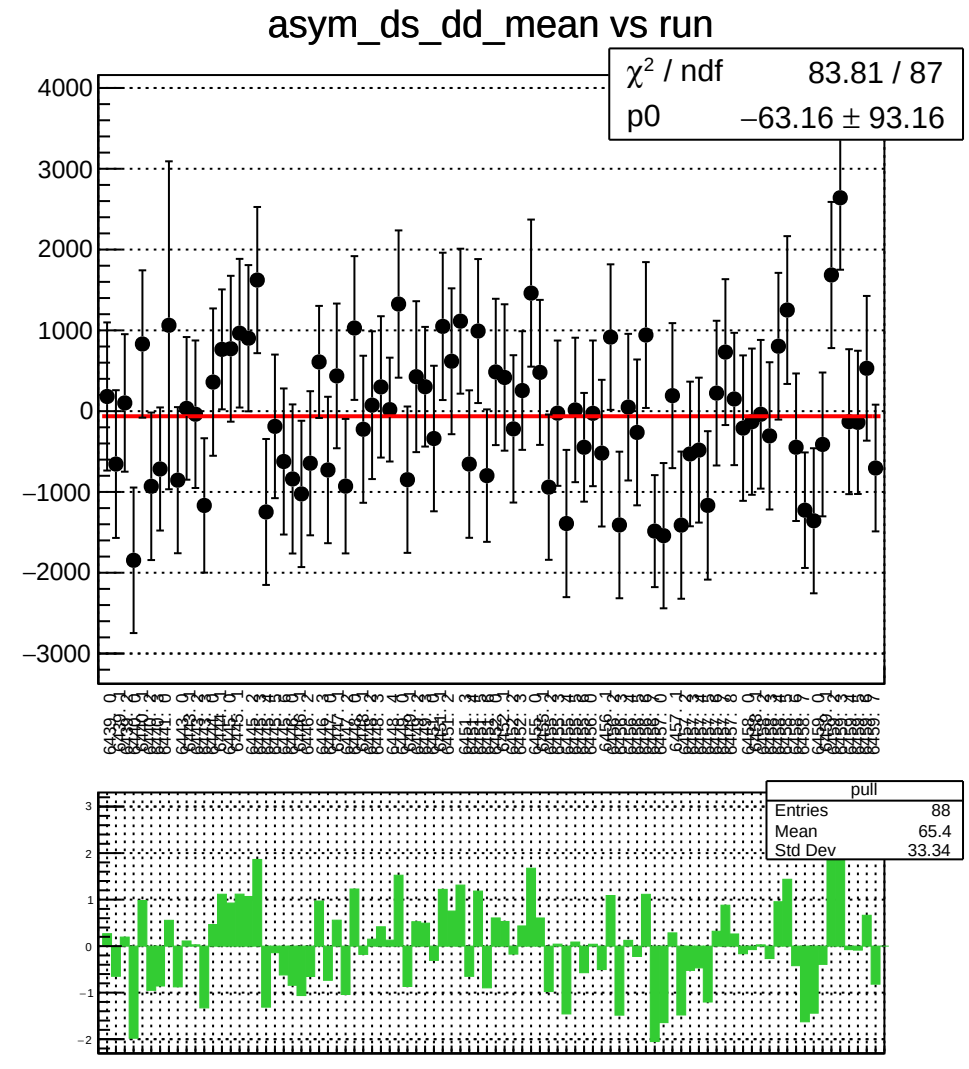

pull1D
Entries 88
Mean 0.01362
Std Dev 0.9767

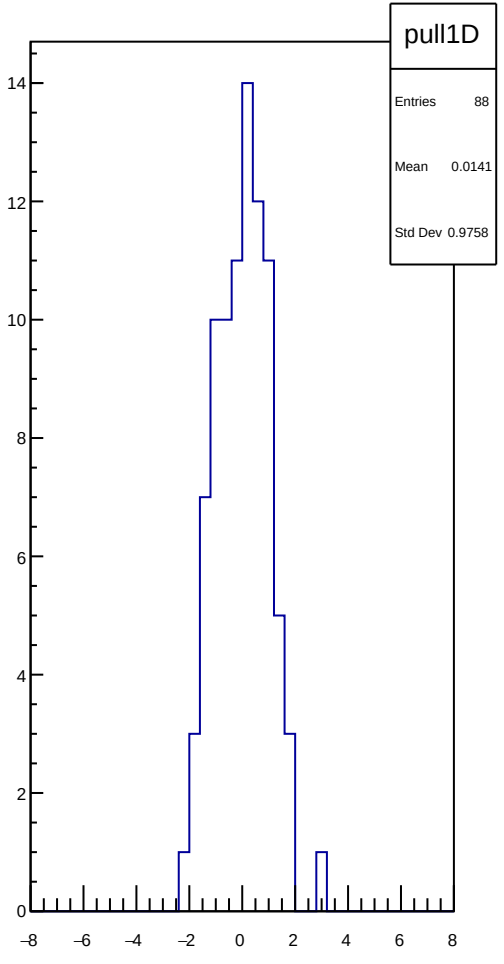

reg_asym_ds_dd_rms vs run
χ^2 / ndf 186.4 / 87
p0 85.79 ± 0.06586
89
88
87
86
85
84
83
82

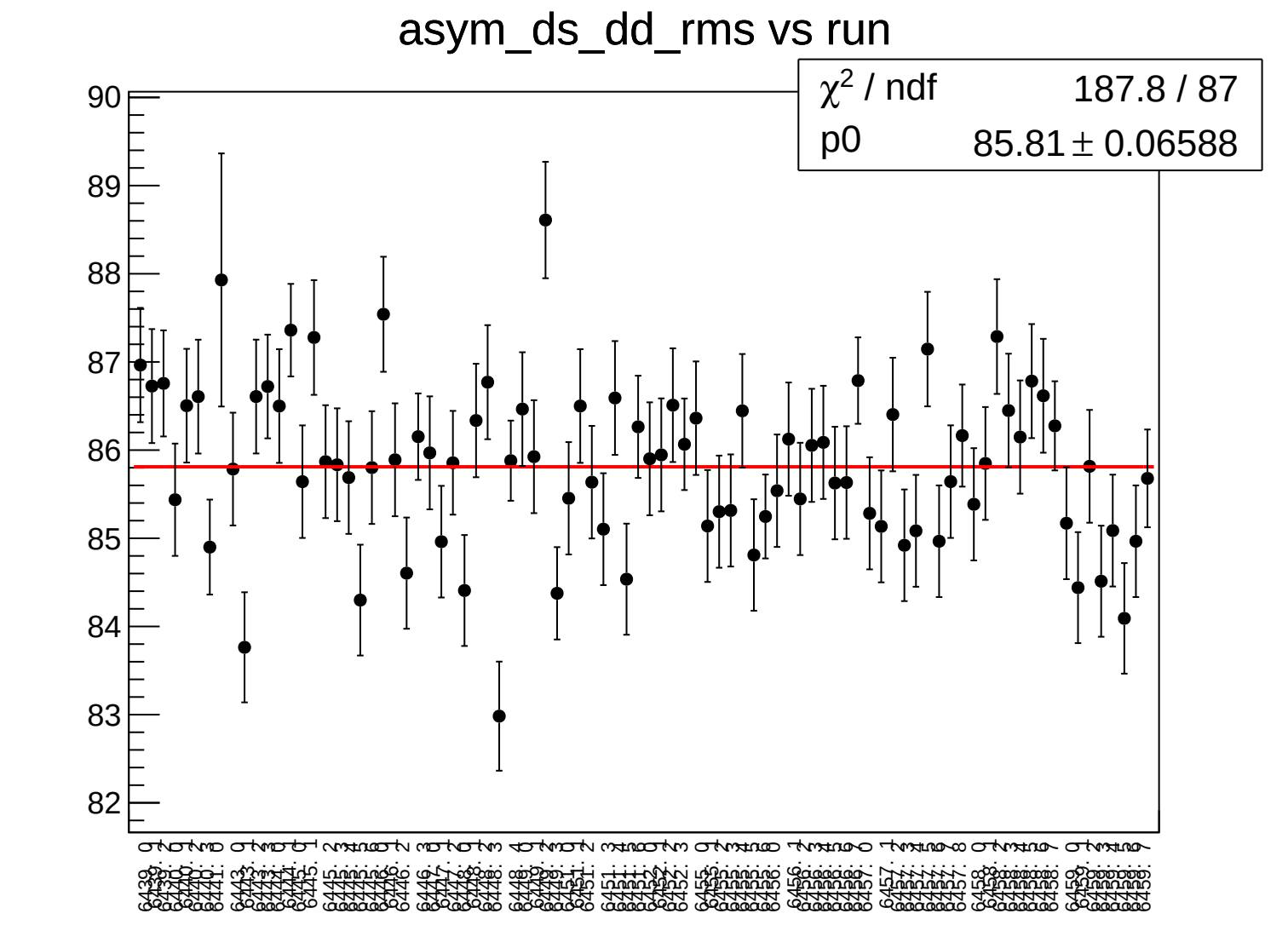

asym_ds_dd_correction_mean vs run
χ² / ndf 80.45 / 87
p0 0.3009 ± 1.673
50
0
−50
−100
−150
pull
Entries 88
Mean 168.4
Std Dev 119.6
2
1
0
−1
−2

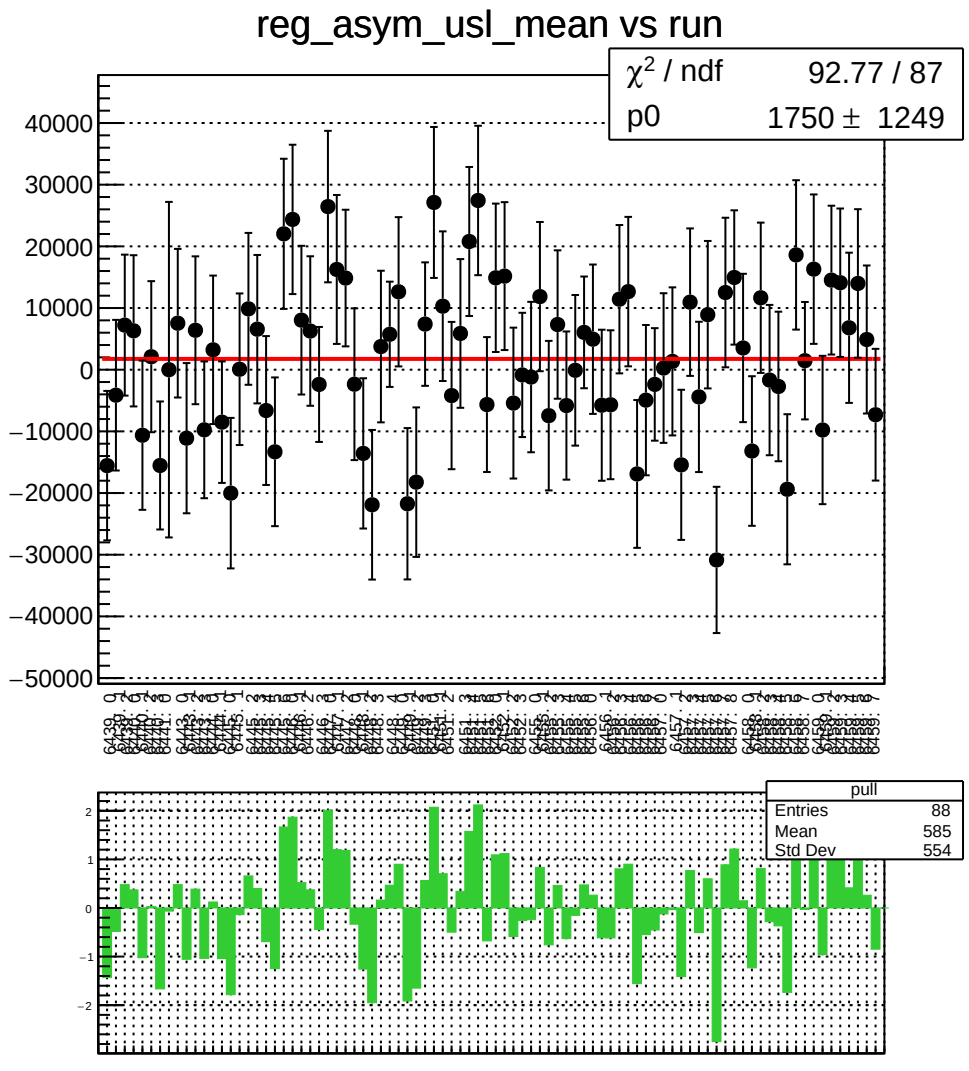

pull1D
Entries 88
Mean −0.03136
Std Dev 0.9556
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

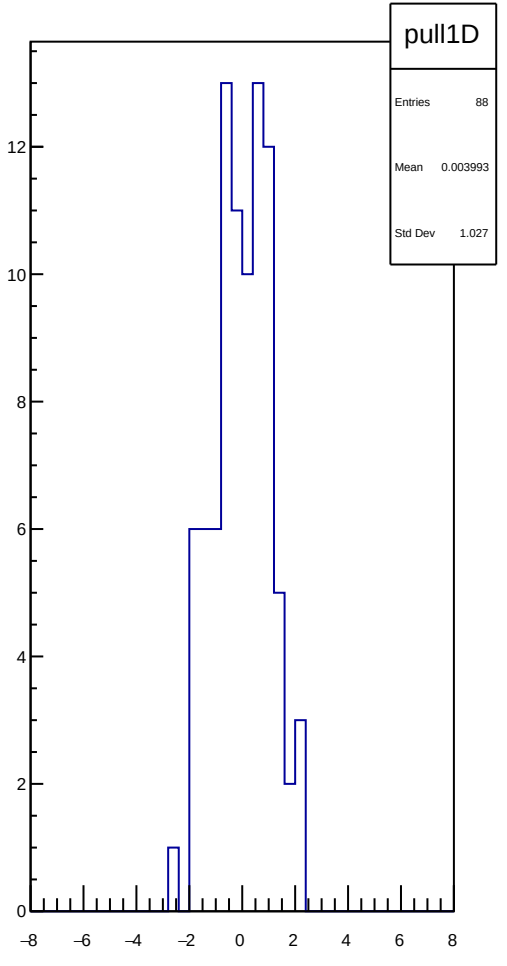

asym_ds_dd_correction_rms vs run
χ² / ndf 2.254e+05 / 87
p0 1.435 ± 0.001183
3.5
3
2.5
2
1.5
1
0.5

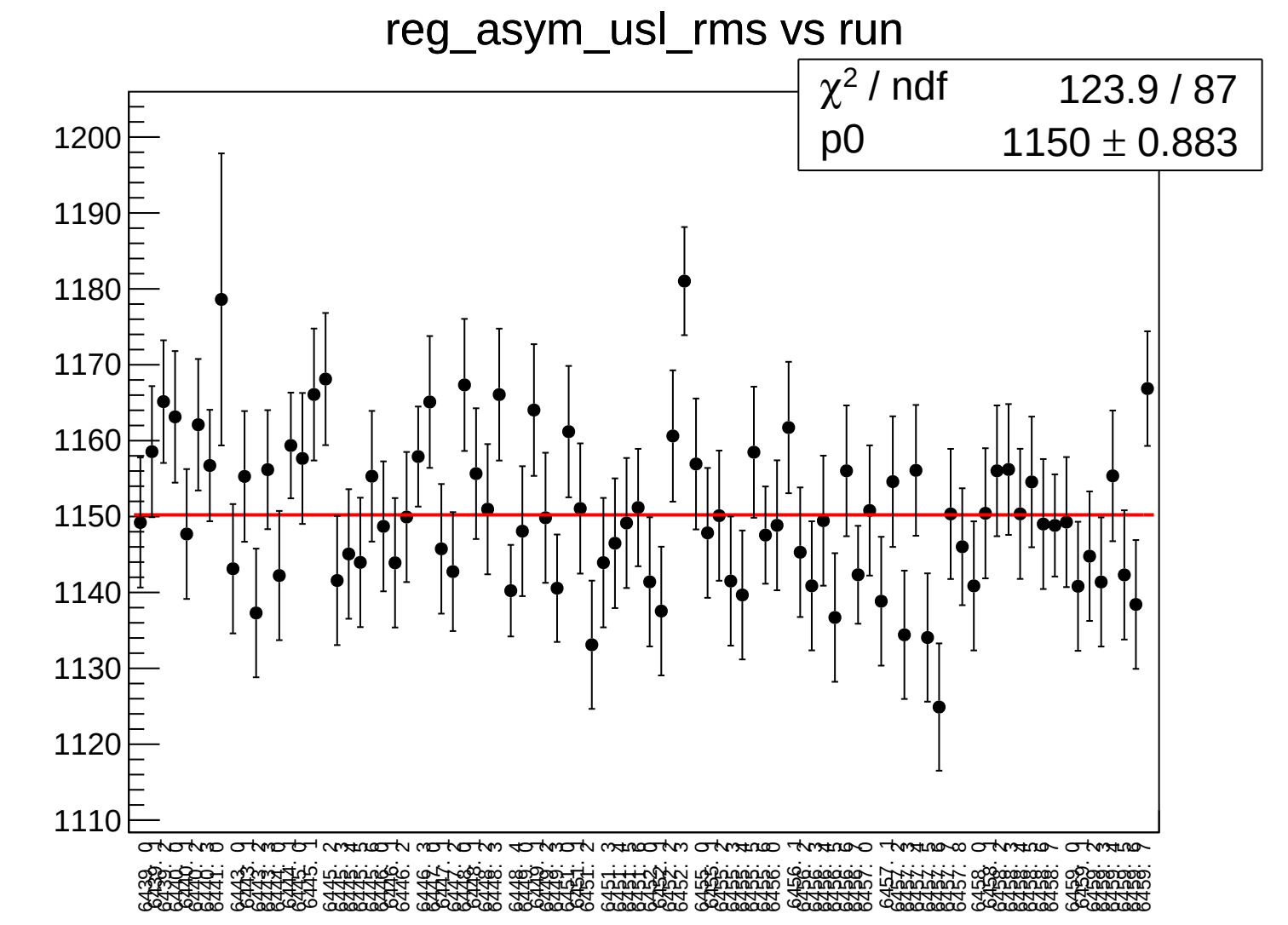

asym_ds_dd_mean vs run
χ^2 / ndf 83.81 / 87
p0 −63.16 ± 93.16
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 65.4
Std Dev 33.34
3
2
1
0
−1
−2

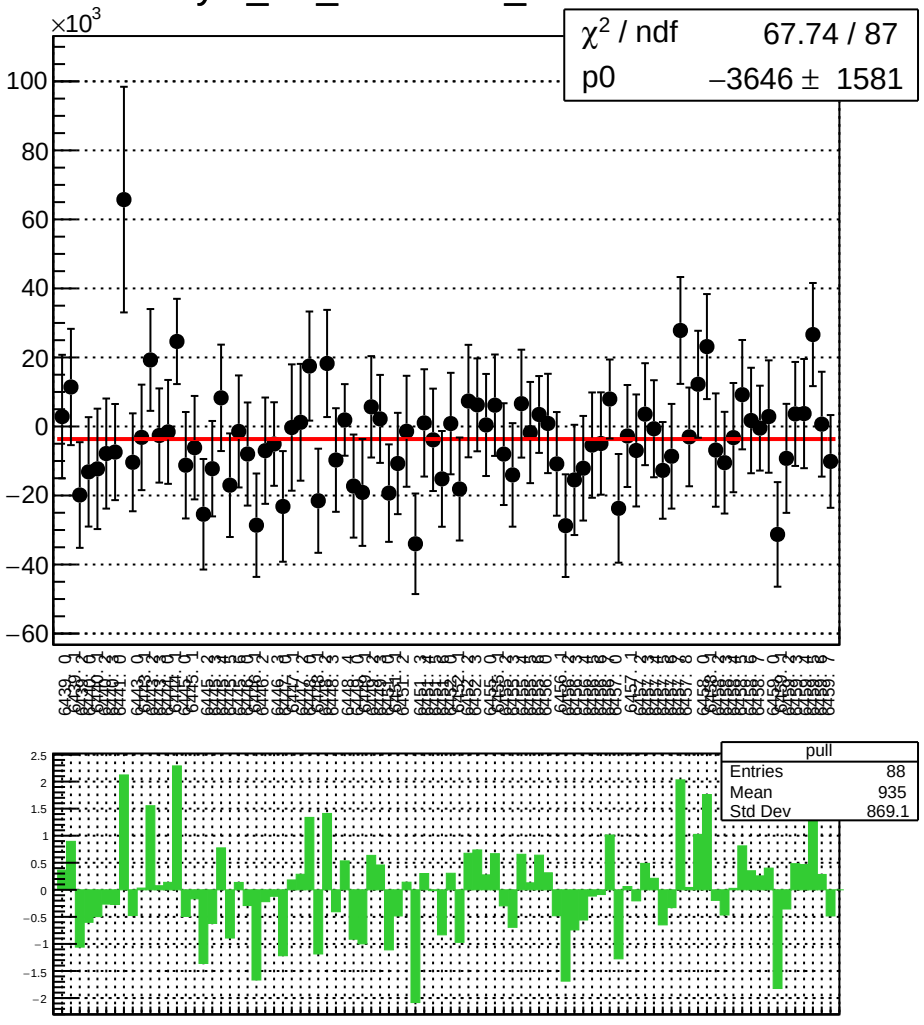

pull1D
Entries 88
Mean 0.0141
Std Dev 0.9758
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

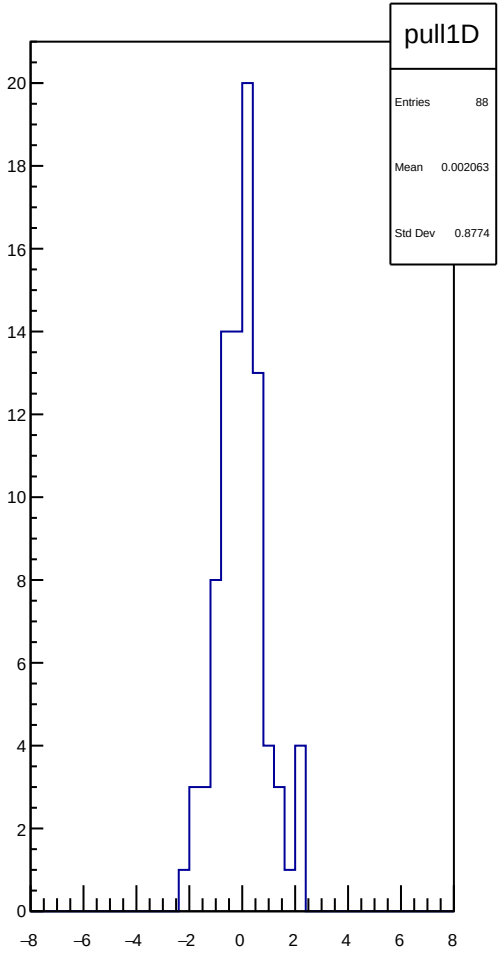

asym_ds_dd_rms vs run
χ^2 / ndf 187.8 / 87
p0 85.81 ± 0.06588
90
89
88
87
86
85
84
83
82


reg_asym_usl_mean vs run
χ² / ndf 92.77 / 87
p0 1750 ± 1249
pull
Entries 88
Mean 585
Std Dev 554

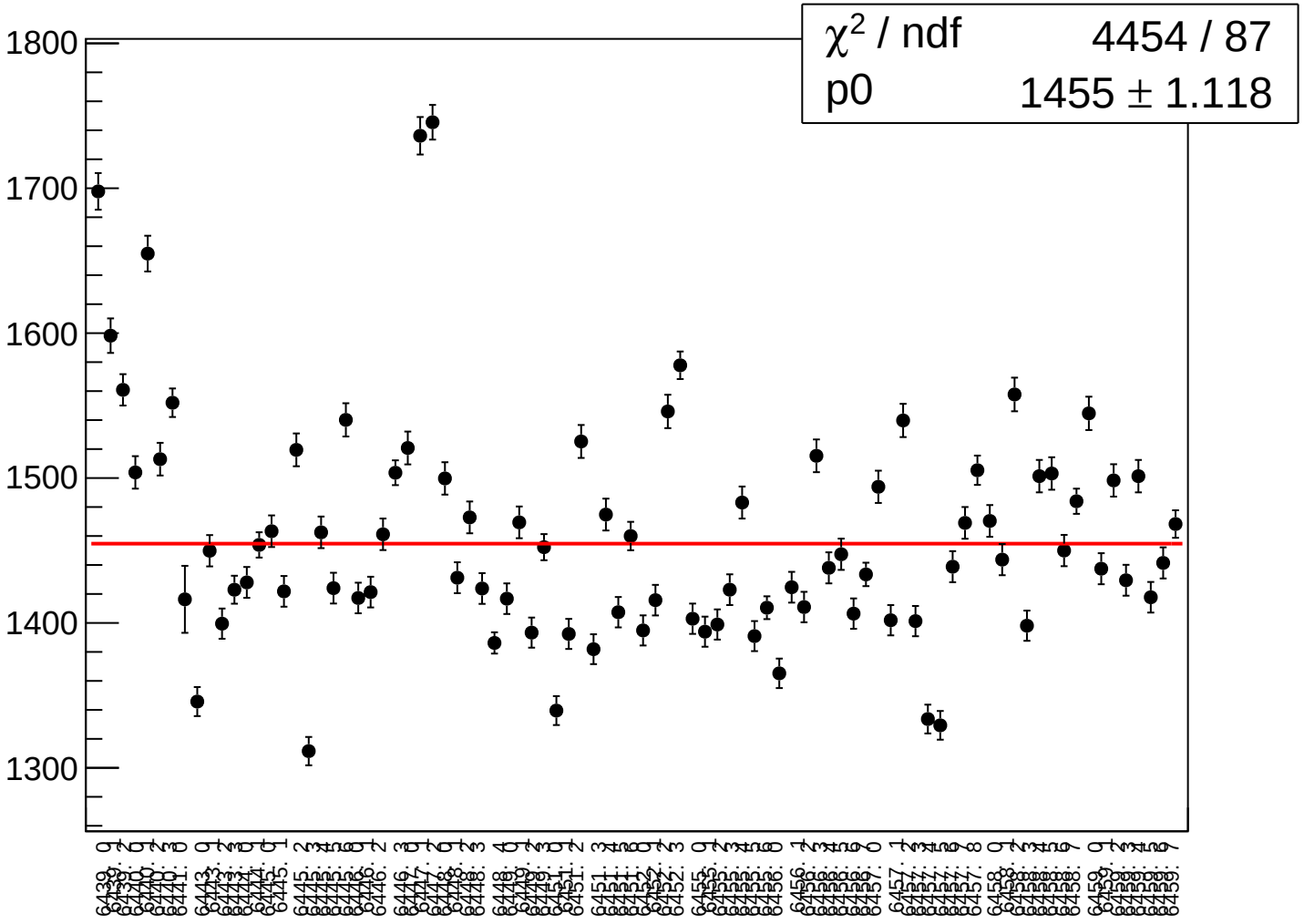

pull1D
Entries 88
Mean 0.003993
Std Dev 1.027

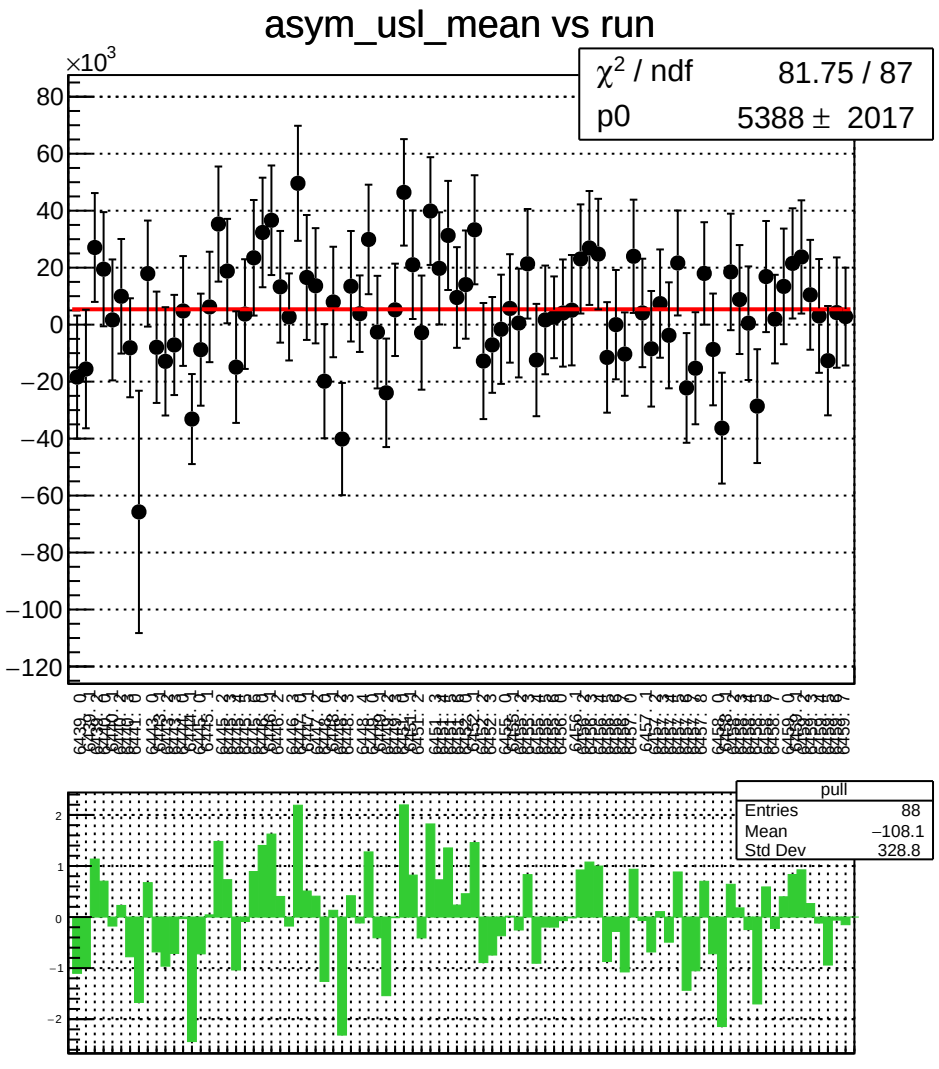

reg_asym_usl_rms vs run
χ^2 / ndf 123.9 / 87
p0 1150 ± 0.883
1200
1190
1180
1170
1160
1150
1140
1130
1120
1110

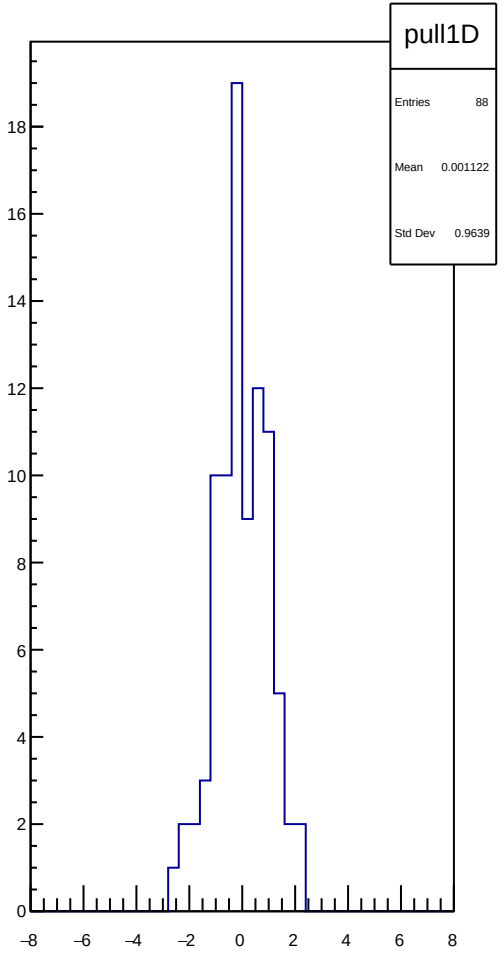

asym_usl_correction_mean vs run
×10^3
χ² / ndf 67.74 / 87
p0 −3646 ± 1581
pull
Entries 88
Mean 935
Std Dev 869.1

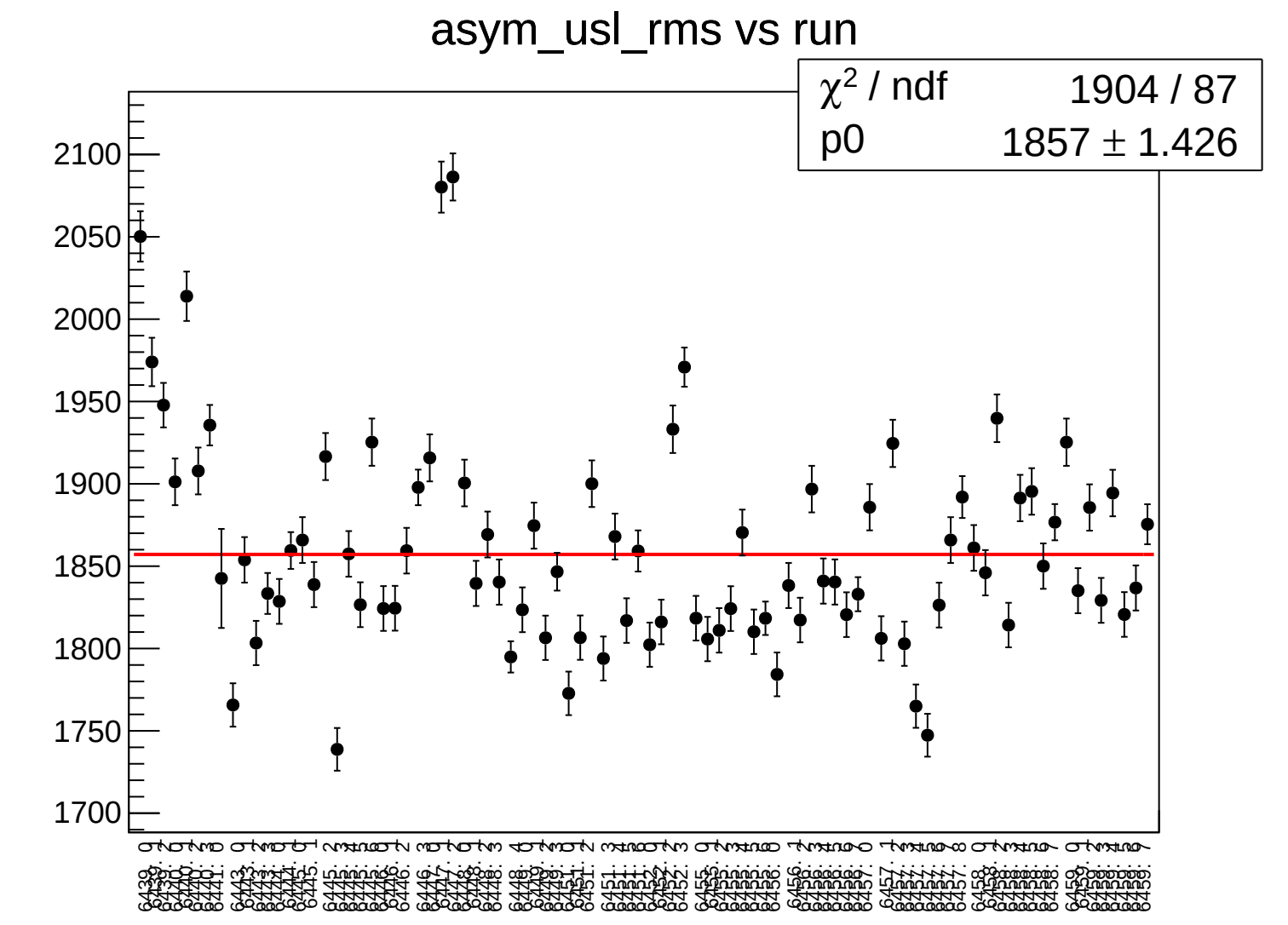

pull1D
Entries 88
Mean 0.002063
Std Dev 0.8774

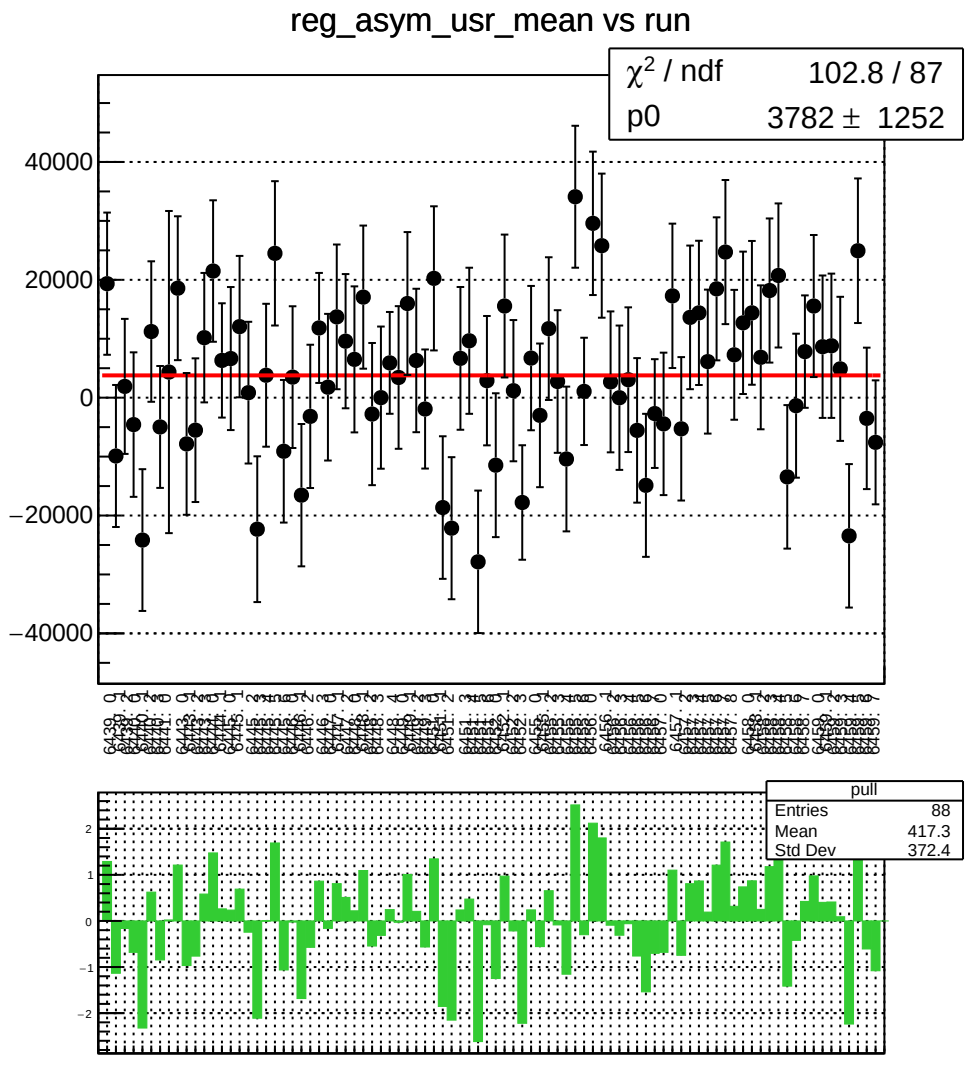
asym_usl_correction_rms vs run

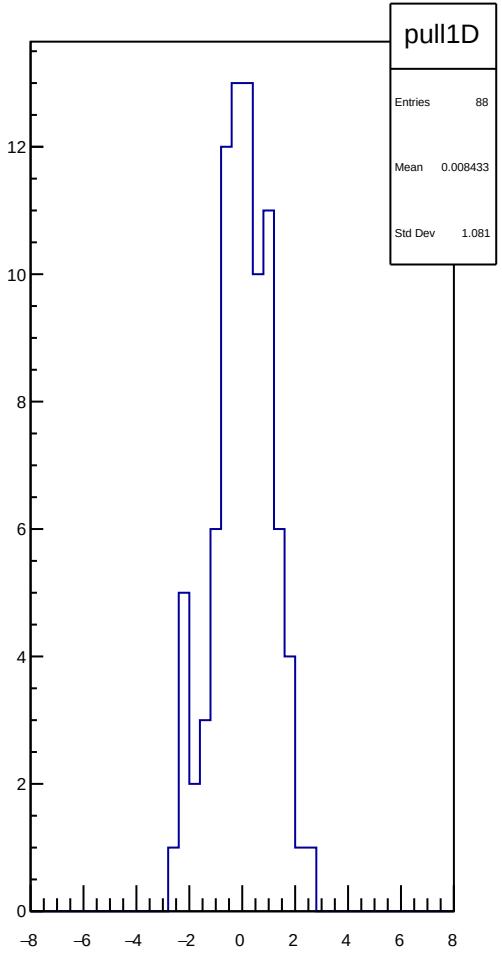


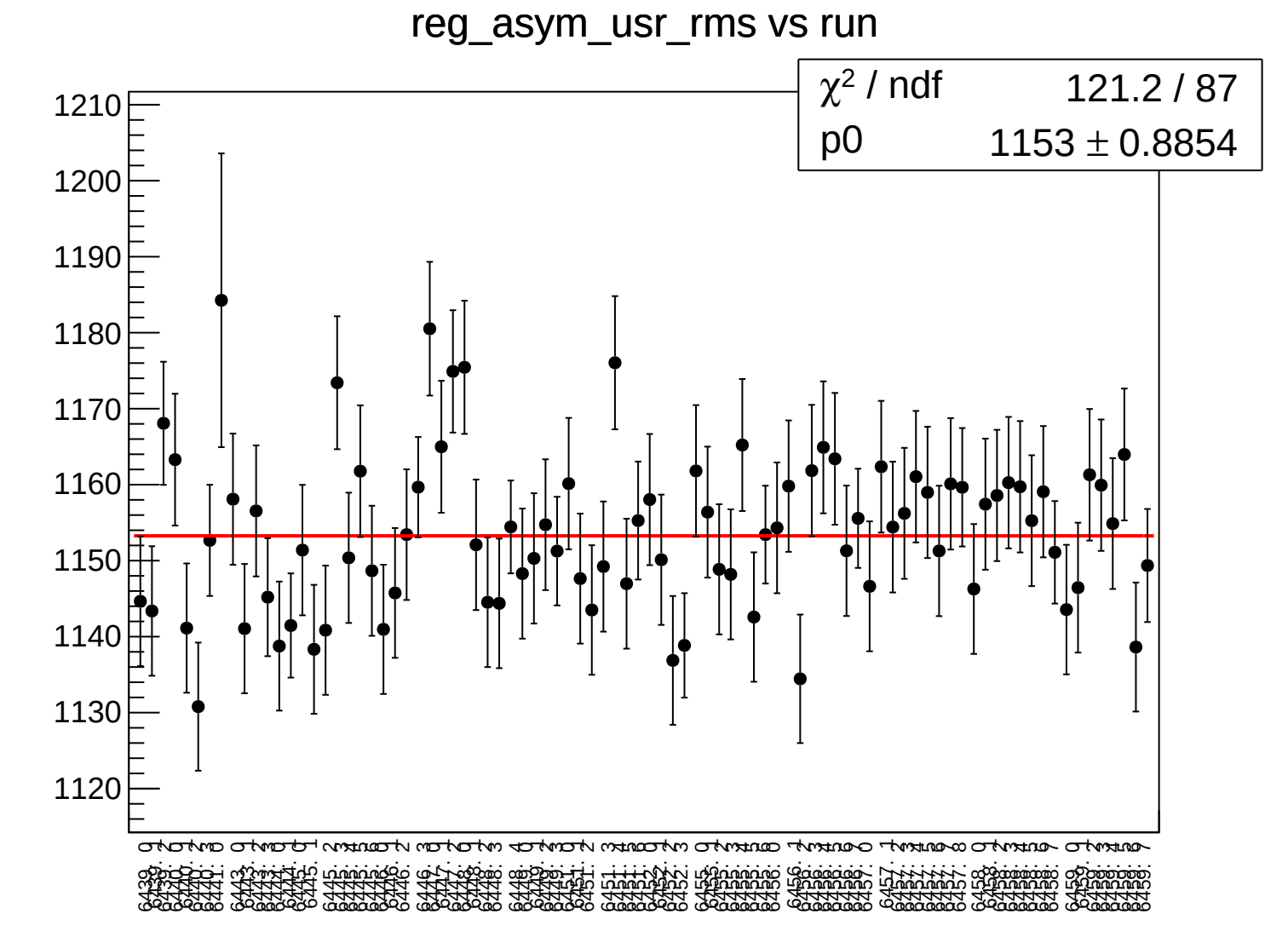

asym_usl_mean vs run
×10^3
χ^2 / ndf 81.75 / 87
p0 5388 ± 2017
pull
Entries 88
Mean −108.1
Std Dev 328.8

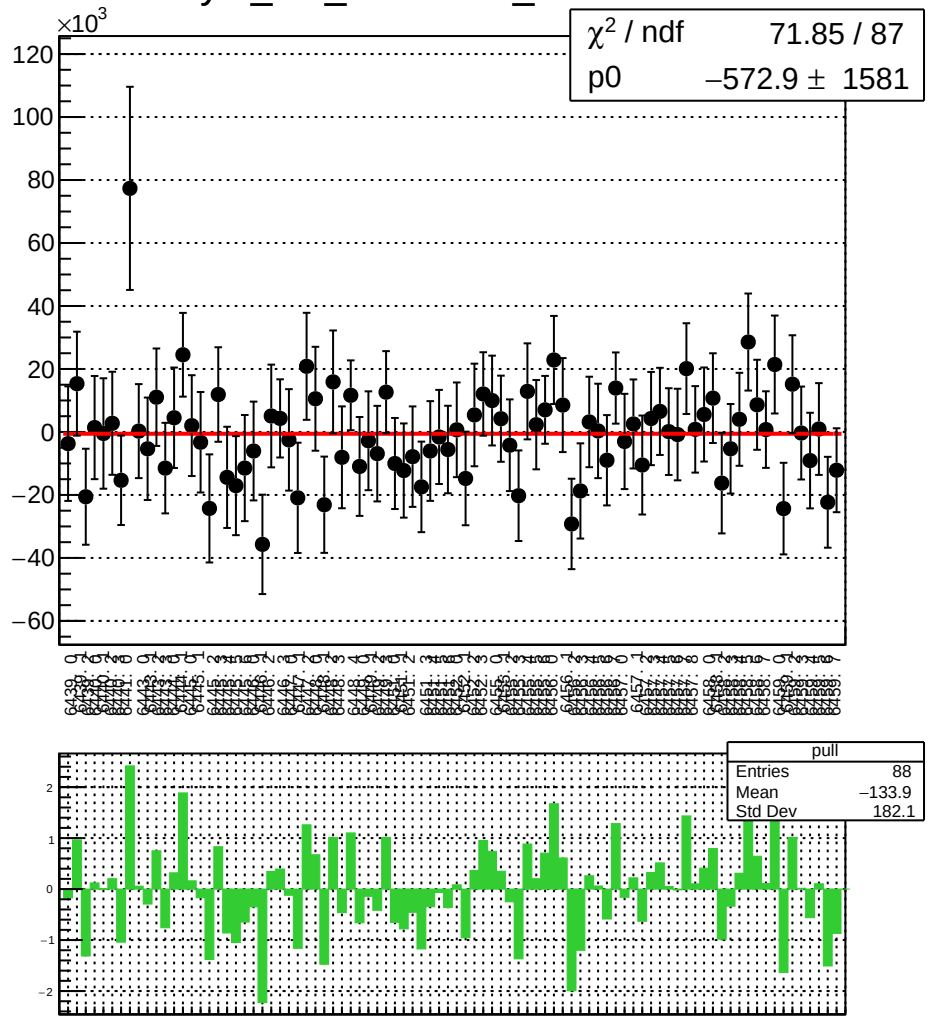

pull1D
Entries 88
Mean 0.001122
Std Dev 0.9639

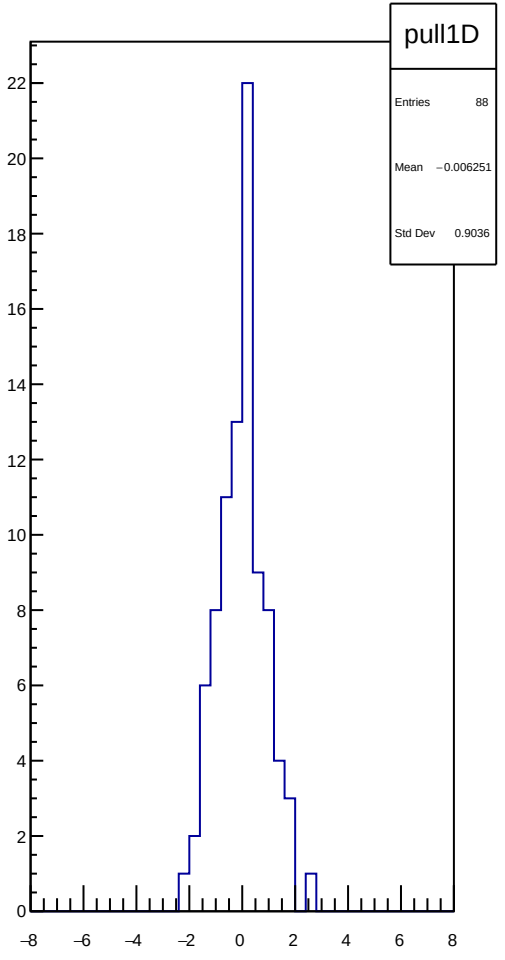

asym_usl_rms vs run
χ² / ndf 1904 / 87
p0 1857 ± 1.426
2100
2050
2000
1950
1900
1850
1800
1750
1700

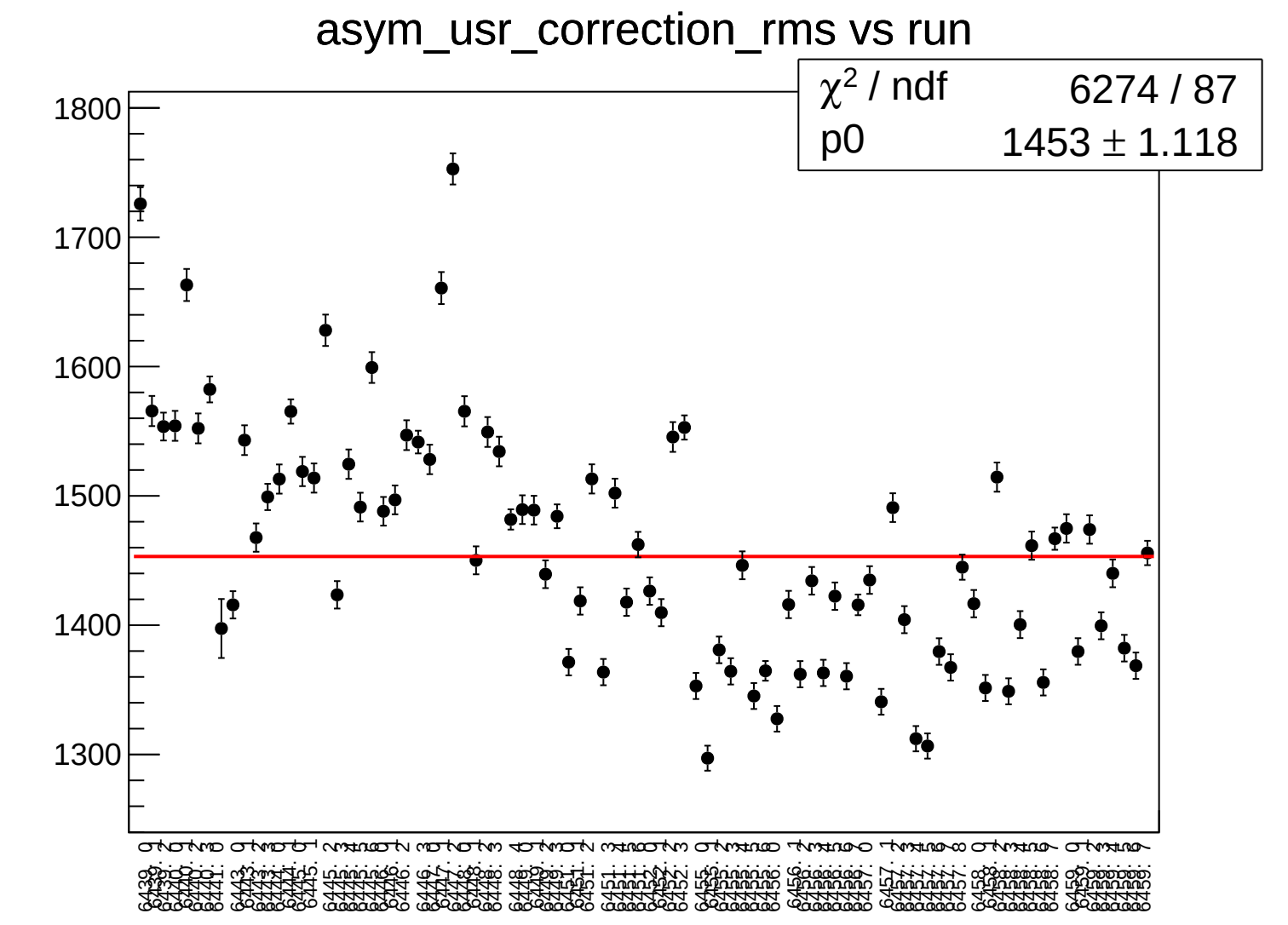

reg_asym_usr_mean vs run
χ^2 / ndf 102.8 / 87
p0 3782 ± 1252
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 417.3
Std Dev 372.4
2
1
0
−1
−2

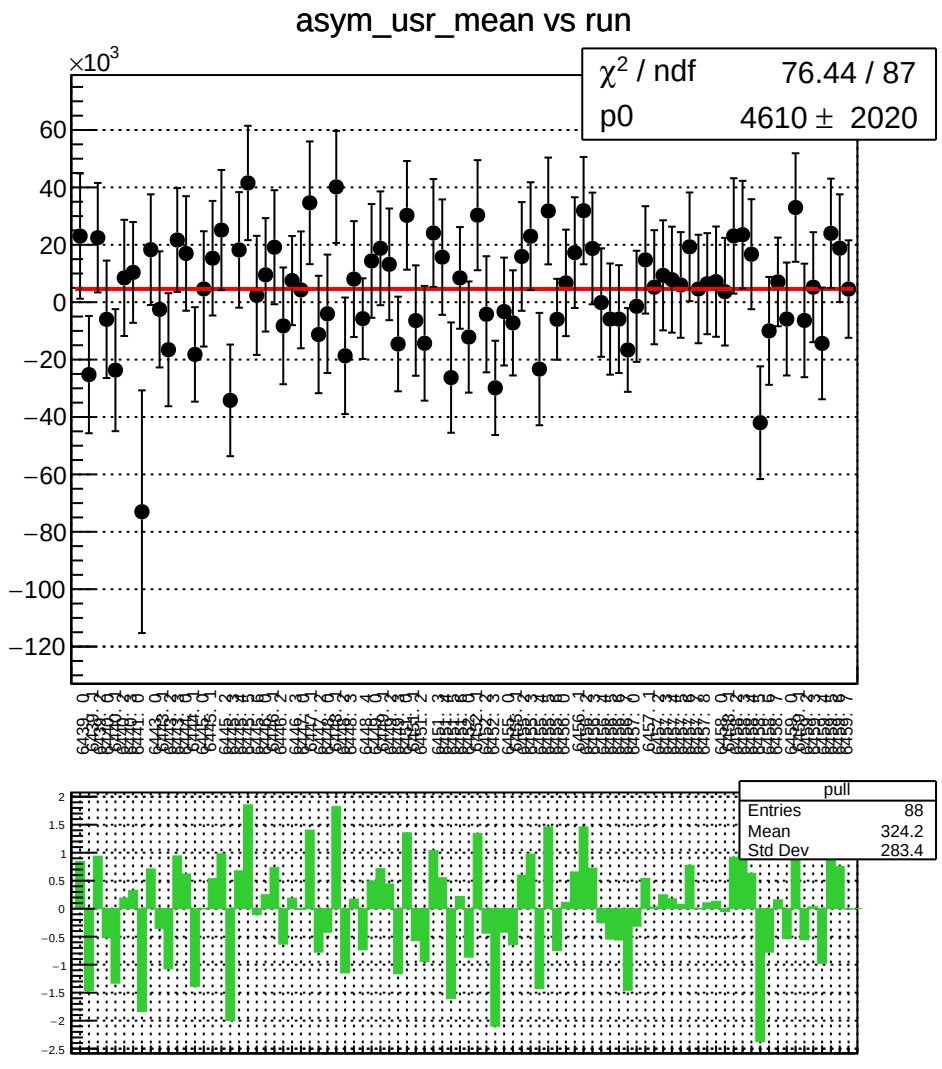

pull1D
Entries 88
Mean 0.008433
Std Dev 1.081
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

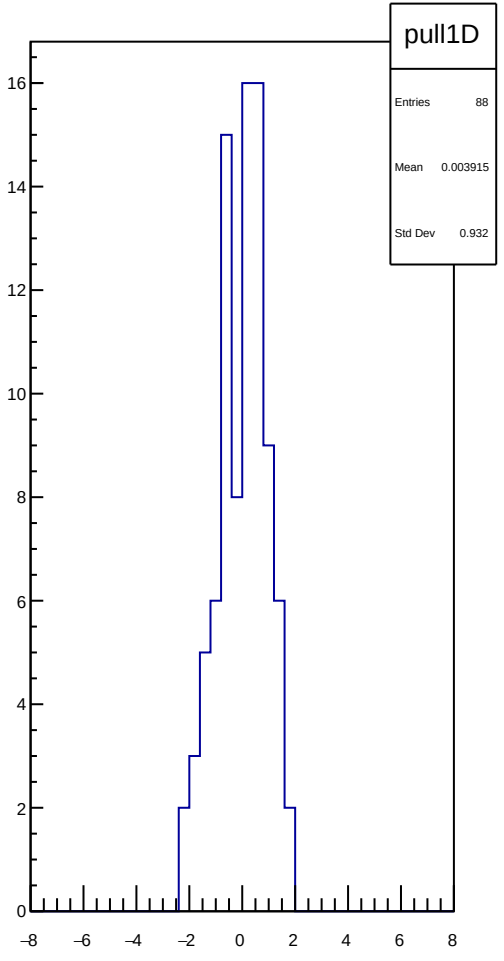

reg_asym_usr_rms vs run
χ² / ndf 121.2 / 87
p0 1153 ± 0.8854
1210
1200
1190
1180
1170
1160
1150
1140
1130
1120

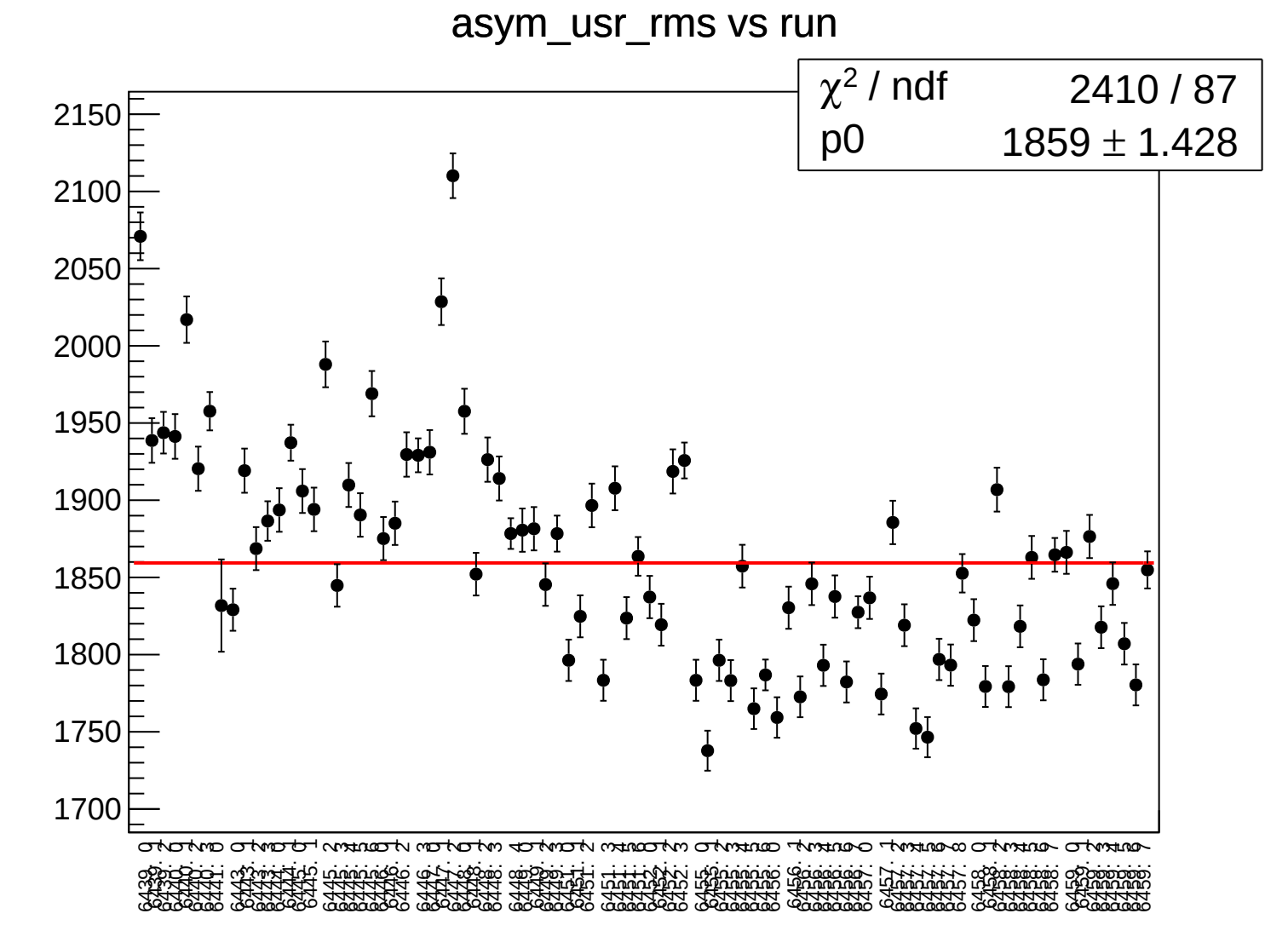

asym_usr_correction_mean vs run
×10^3
χ² / ndf 71.85 / 87
p0 −572.9 ± 1581
pull
Entries 88
Mean −133.9
Std Dev 182.1

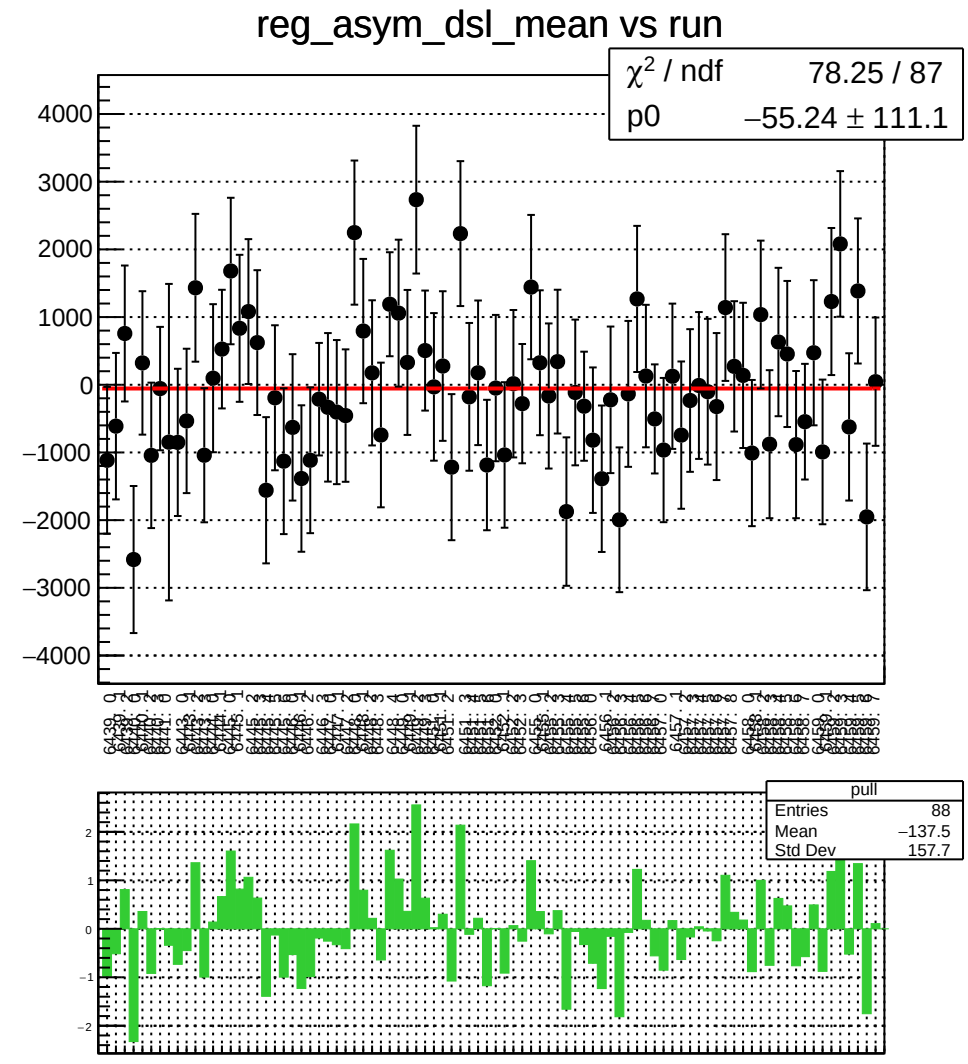

pull1D
Entries 88
Mean −0.006251
Std Dev 0.9036

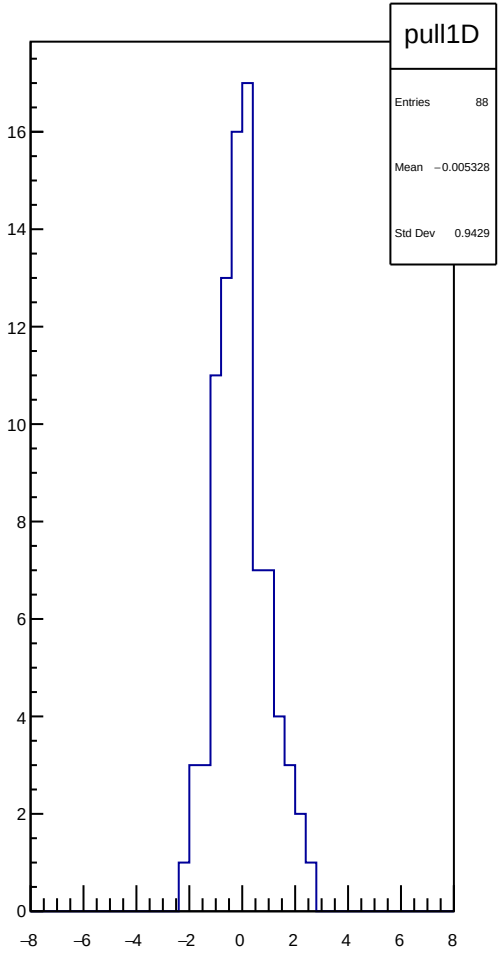

asym_usr_correction_rms vs run
χ² / ndf 6274 / 87
p0 1453 ± 1.118
1800
1700
1600
1500
1400
1300

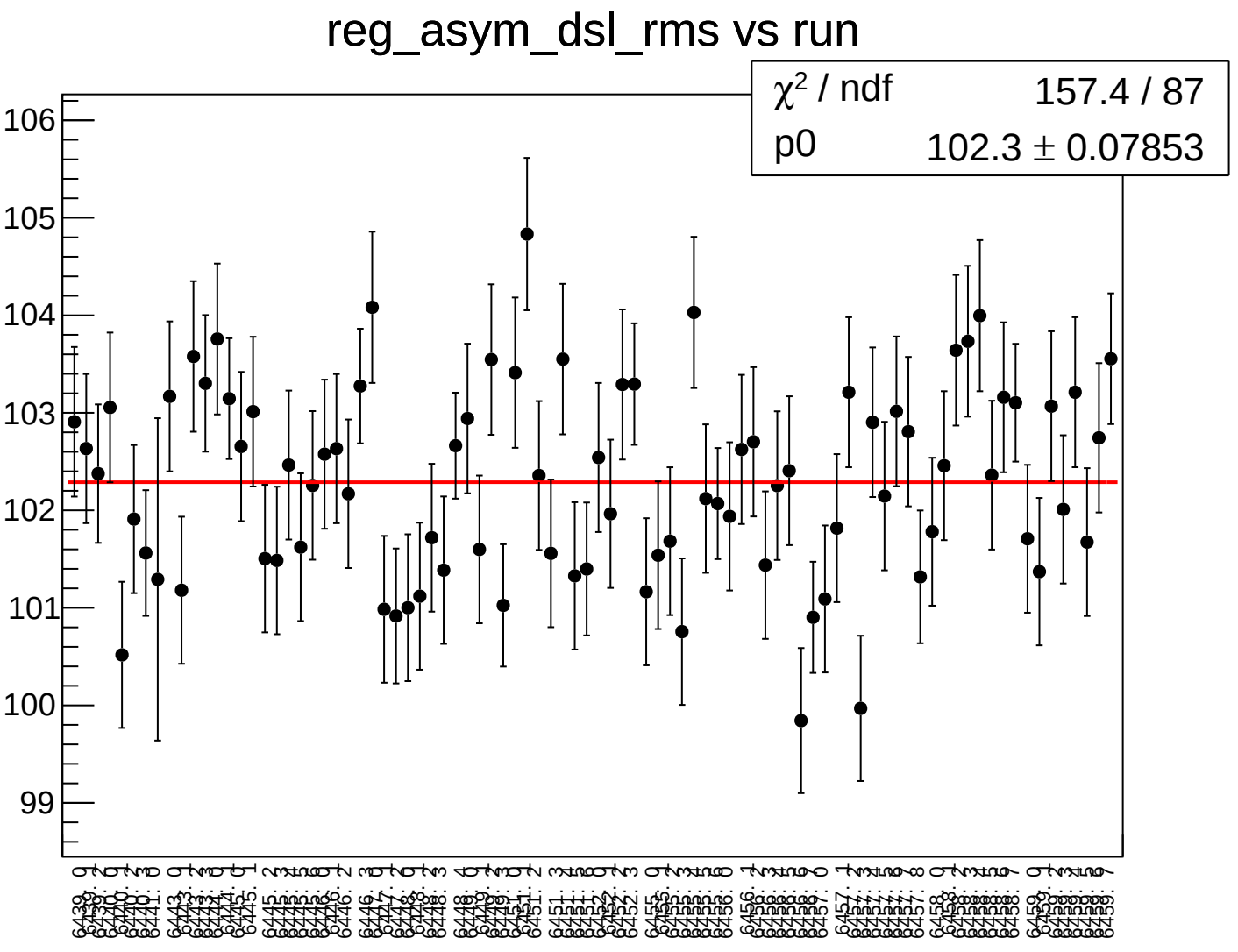

asym_usr_mean vs run
×10^3
χ^2 / ndf 76.44 / 87
p0 4610 ± 2020
pull
Entries 88
Mean 324.2
Std Dev 283.4

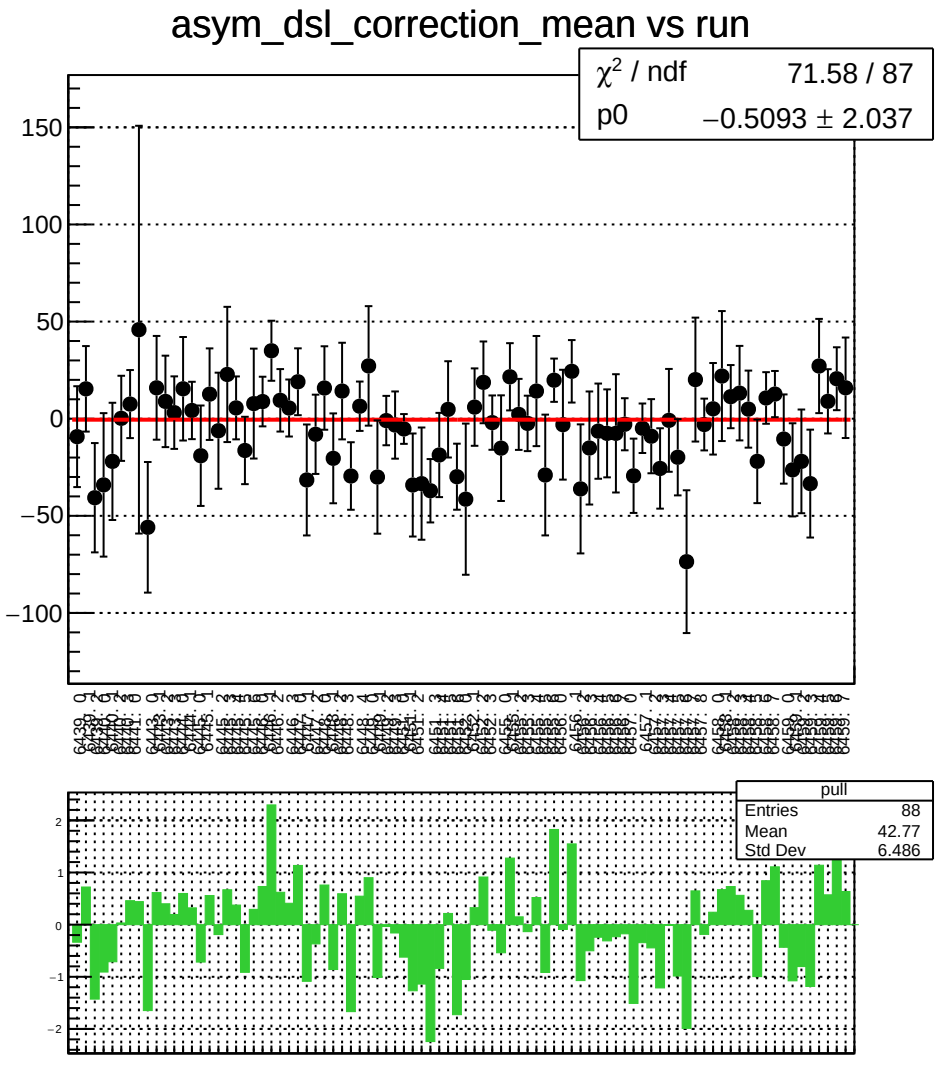

pull1D
Entries 88
Mean 0.003915
Std Dev 0.932

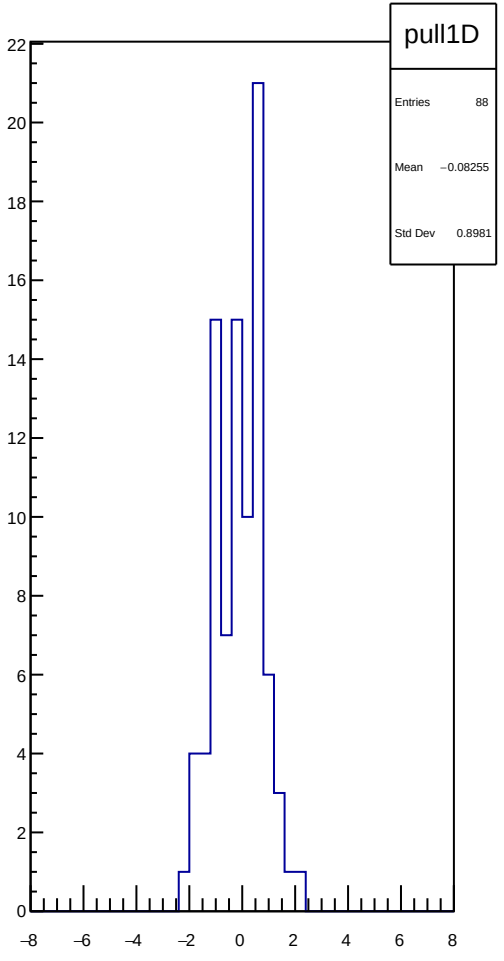

asym_usr_rms vs run
χ² / ndf 2410 / 87
p0 1859 ± 1.428
2150
2100
2050
2000
1950
1900
1850
1800
1750
1700

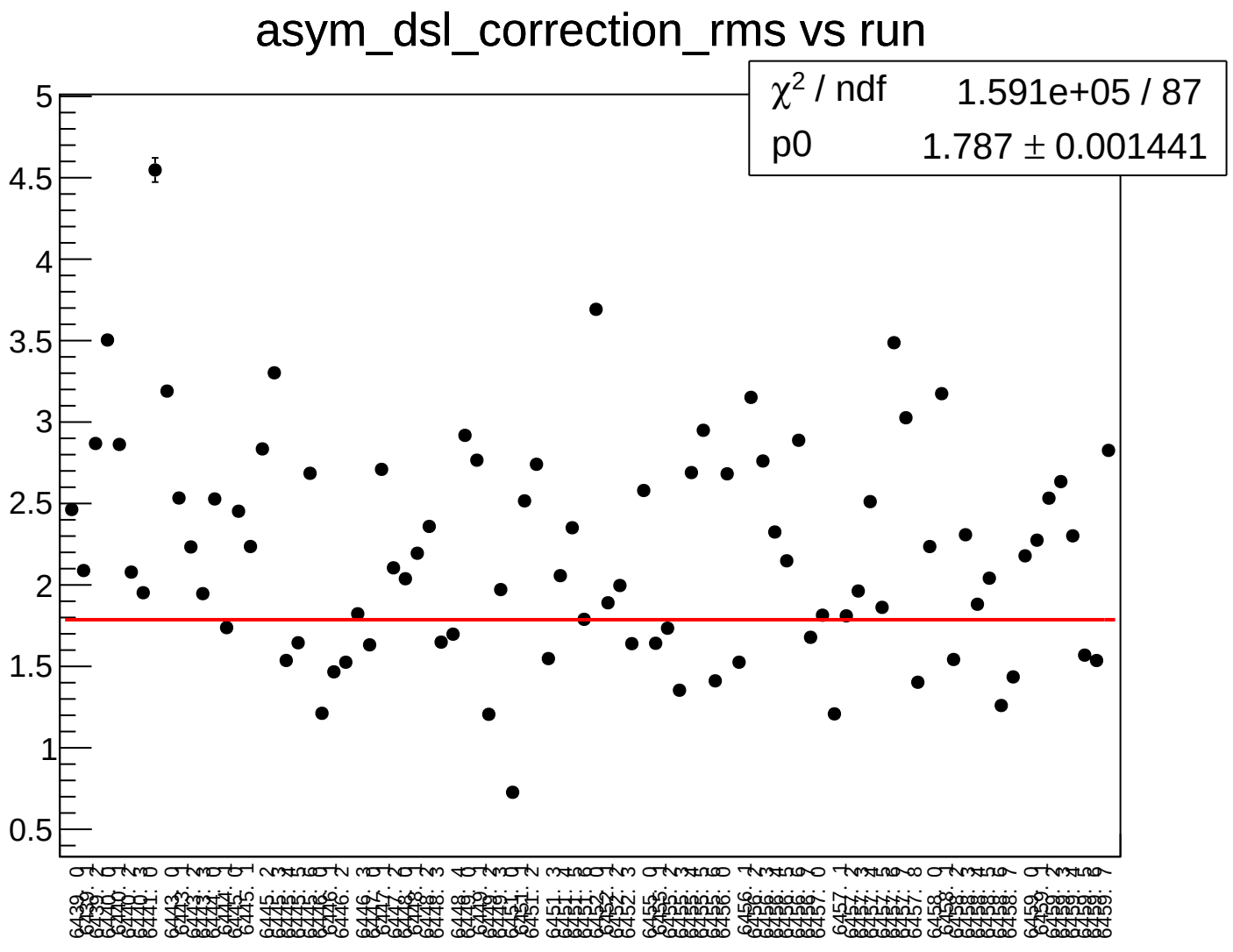

reg_asym_dsl_mean vs run
χ² / ndf 78.25 / 87
p0 −55.24 ± 111.1
pull
Entries 88
Mean −137.5
Std Dev 157.7

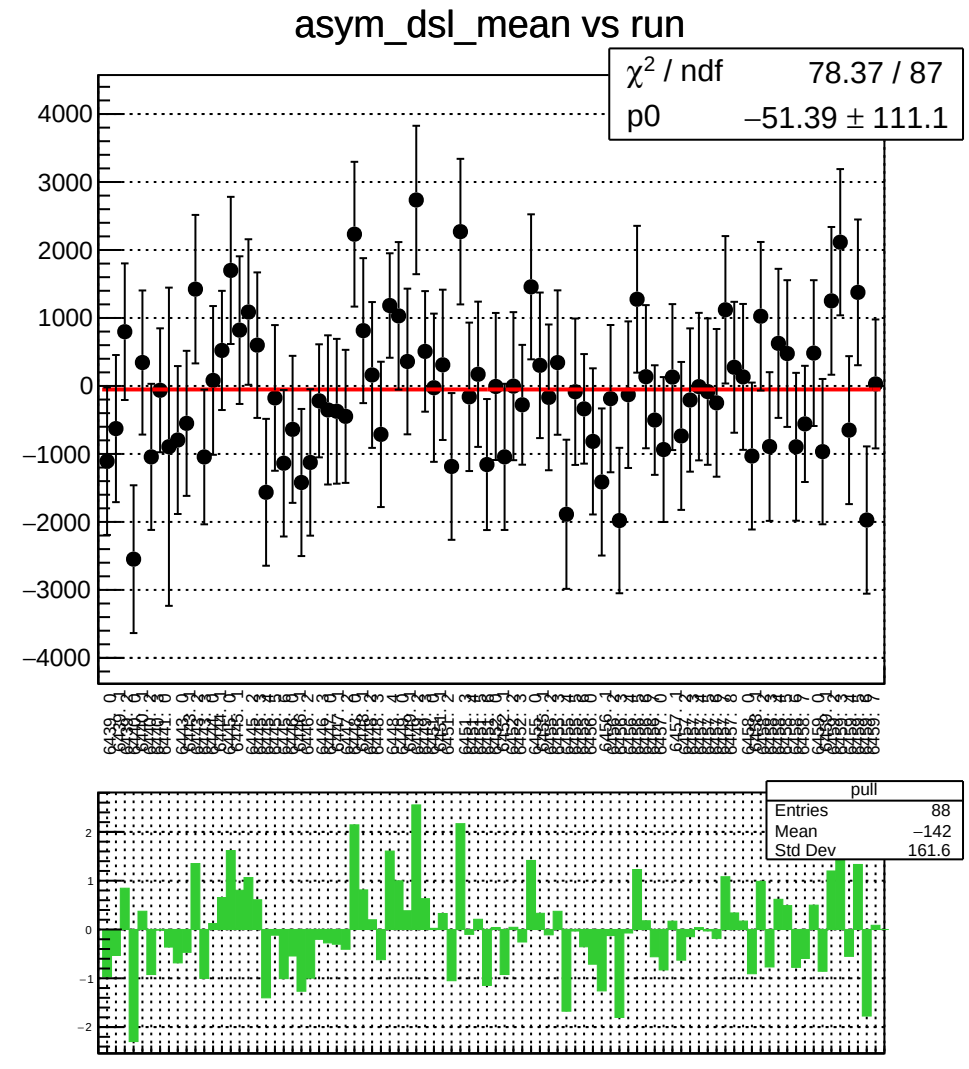

pull1D
Entries 88
Mean −0.005328
Std Dev 0.9429

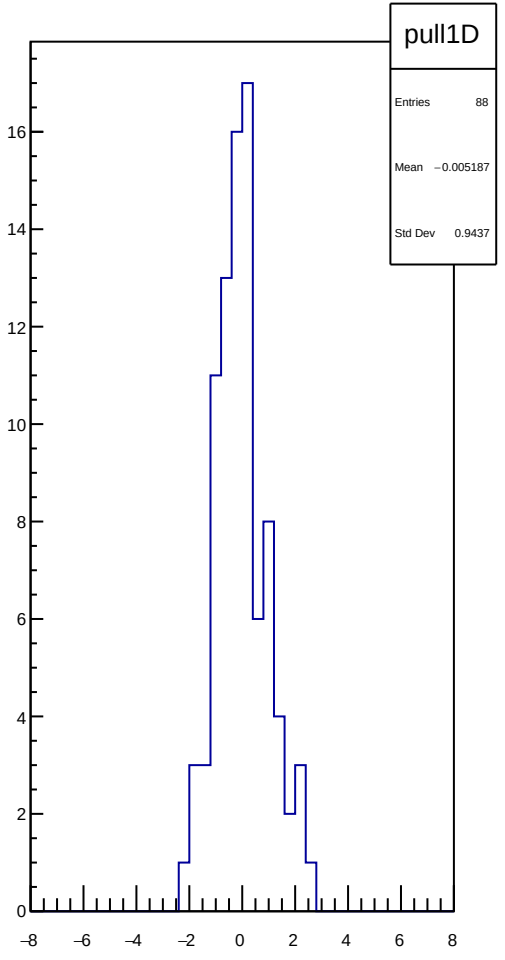

reg_asym_dsl_rms vs run
χ² / ndf 157.4 / 87
p0 102.3 ± 0.07853
106
105
104
103
102
101
100
99

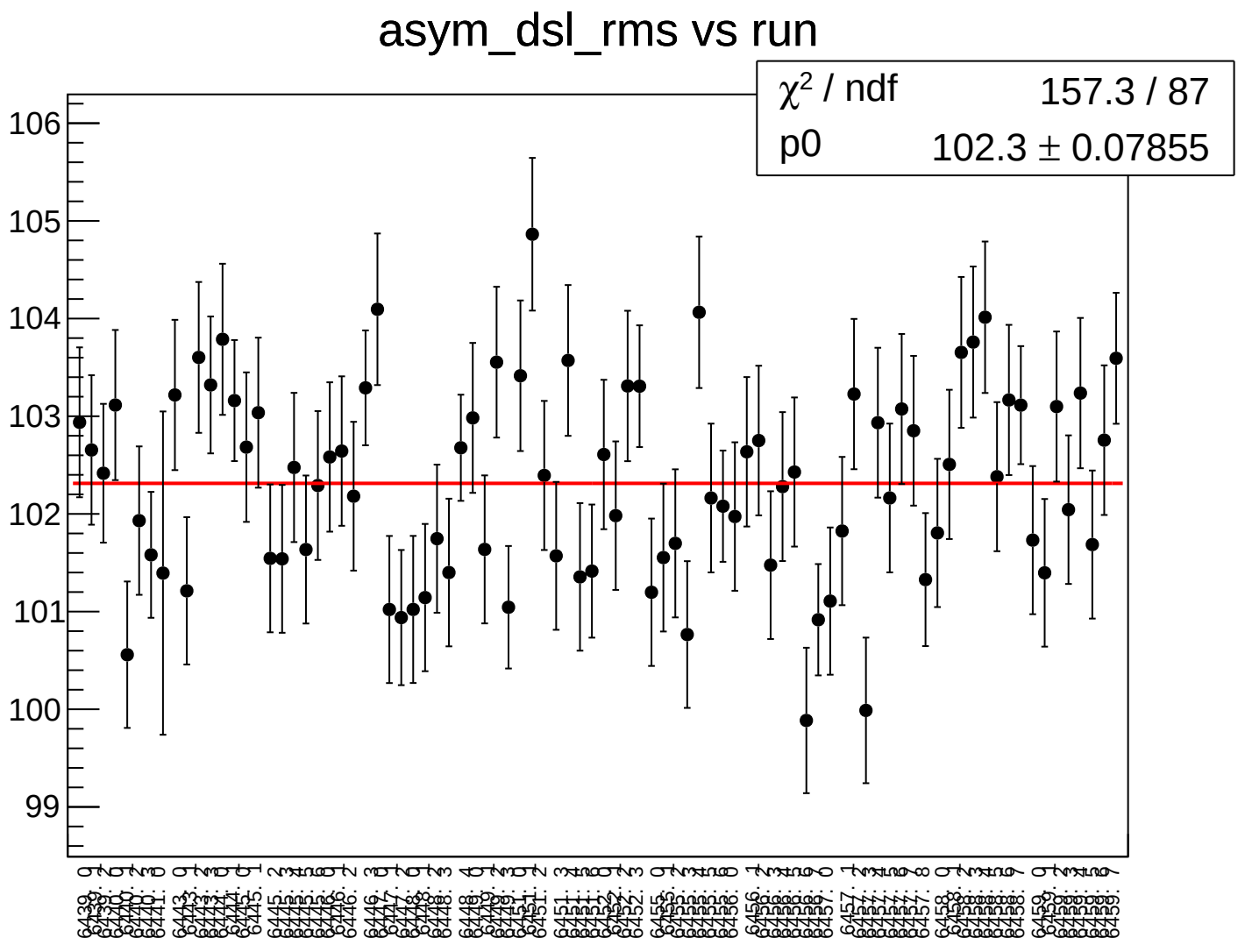

asym_dsl_correction_mean vs run
χ² / ndf 71.58 / 87
p0 −0.5093 ± 2.037
150
100
50
0
−50
−100
pull
Entries 88
Mean 42.77
Std Dev 6.486
2
1
0
−1
−2

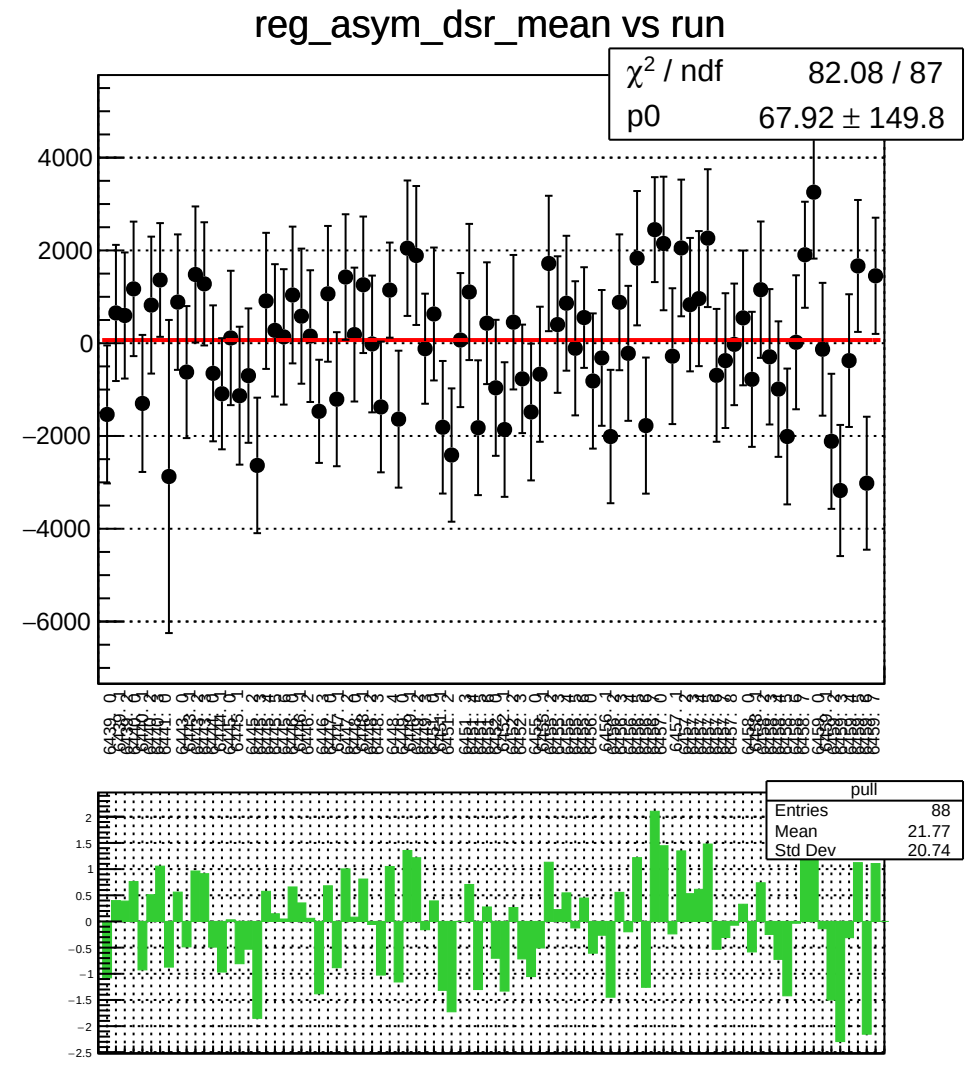

pull1D
Entries 88
Mean −0.08255
Std Dev 0.8981
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

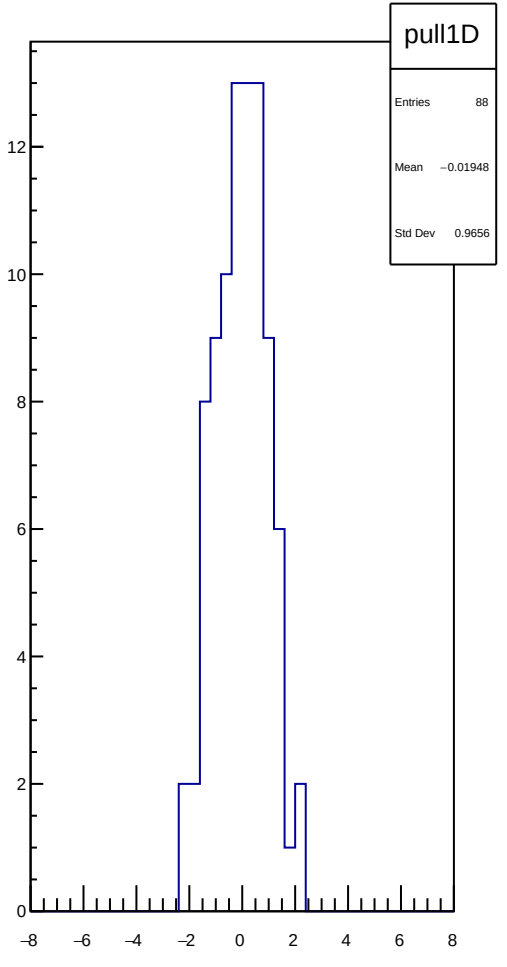

asym_dsl_correction_rms vs run
χ^2 / ndf 1.591e+05 / 87
p0 1.787 ± 0.001441
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5

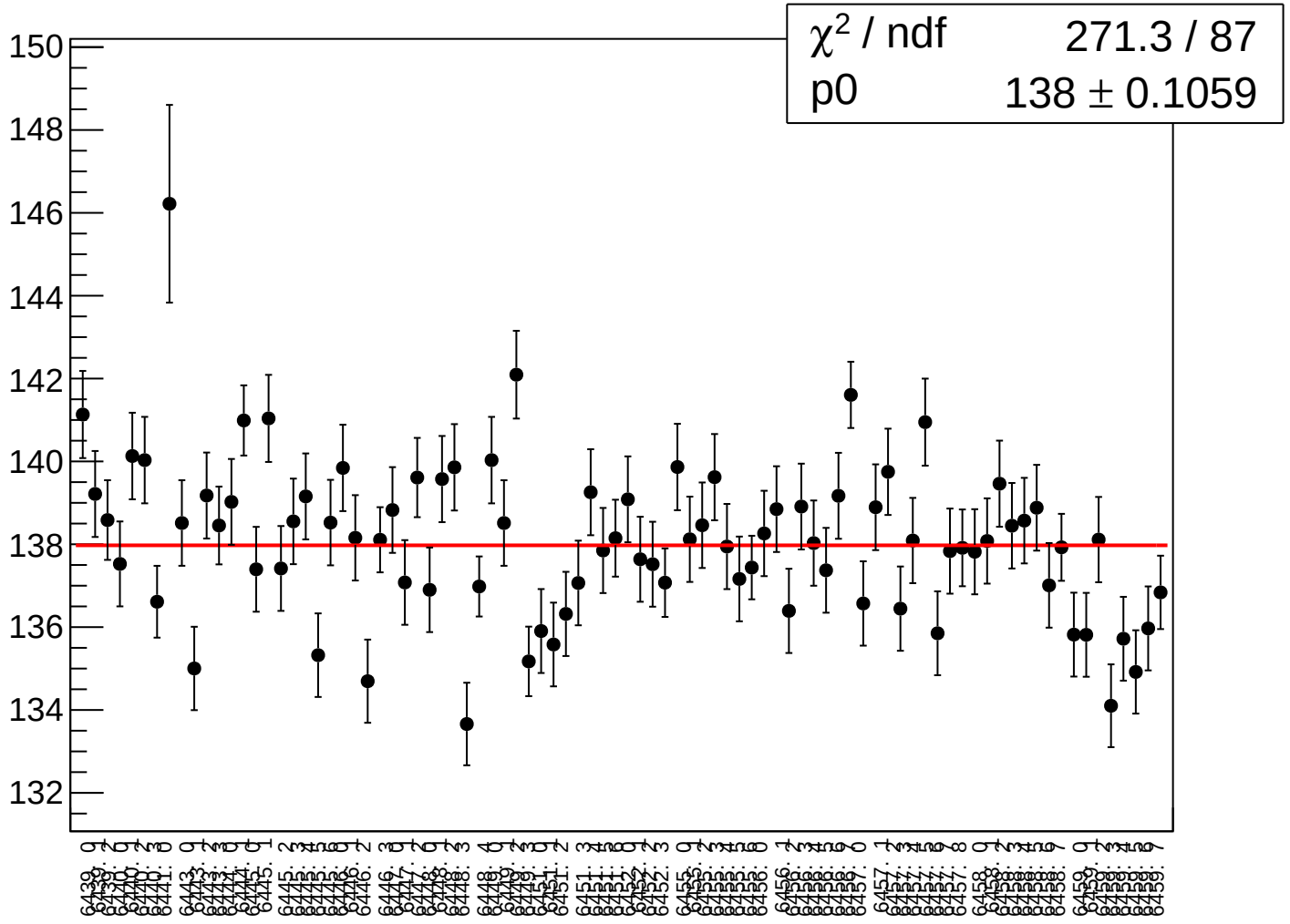

asym_dsl_mean vs run
χ² / ndf 78.37 / 87
p0 −51.39 ± 111.1
pull
Entries 88
Mean −142
Std Dev 161.6

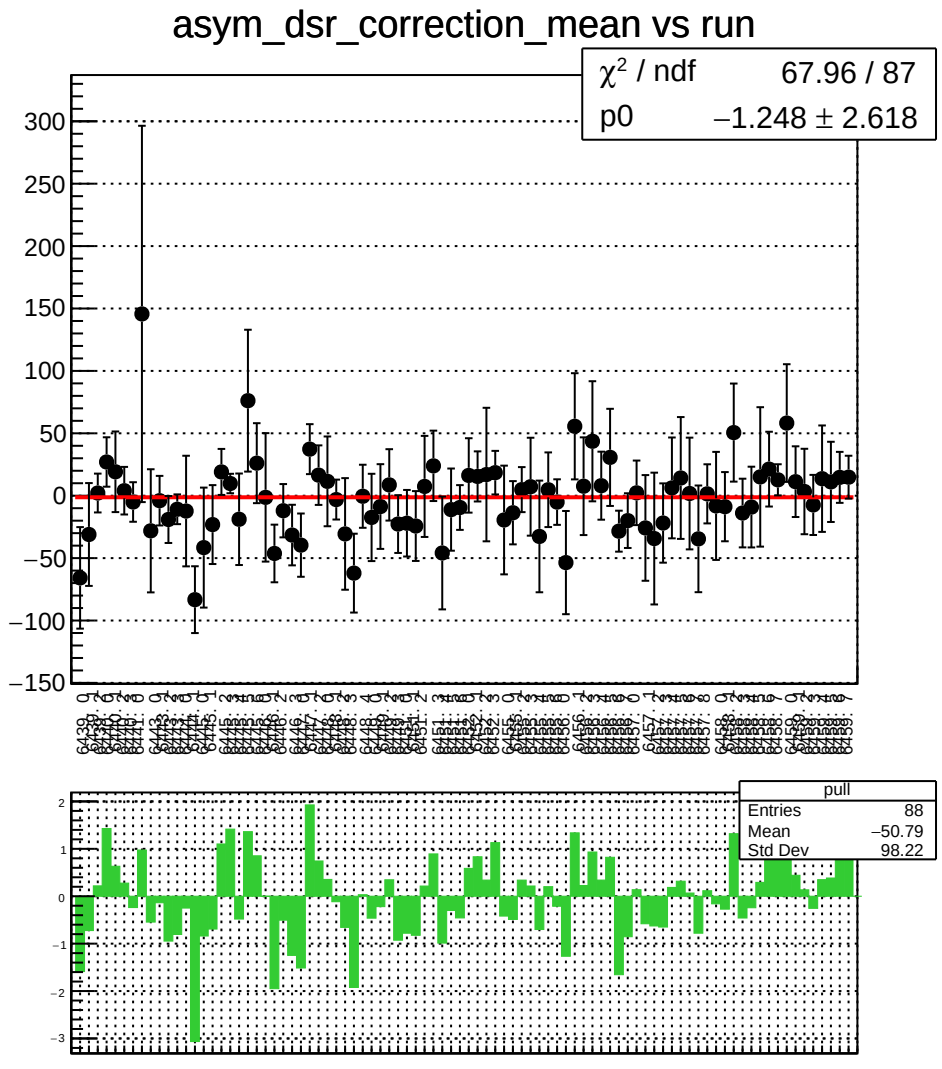

pull1D
Entries 88
Mean −0.005187
Std Dev 0.9437

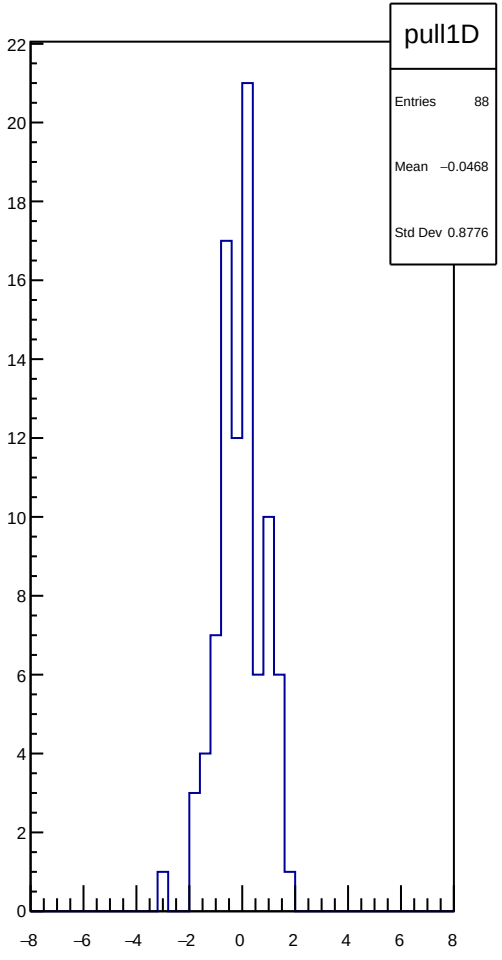

asym_dsl_rms vs run
χ² / ndf 157.3 / 87
p0 102.3 ± 0.07855
106
105
104
103
102
101
100
99


reg_asym_dsr_mean vs run
χ^2 / ndf 82.08 / 87
p0 67.92 ± 149.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 21.77
Std Dev 20.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

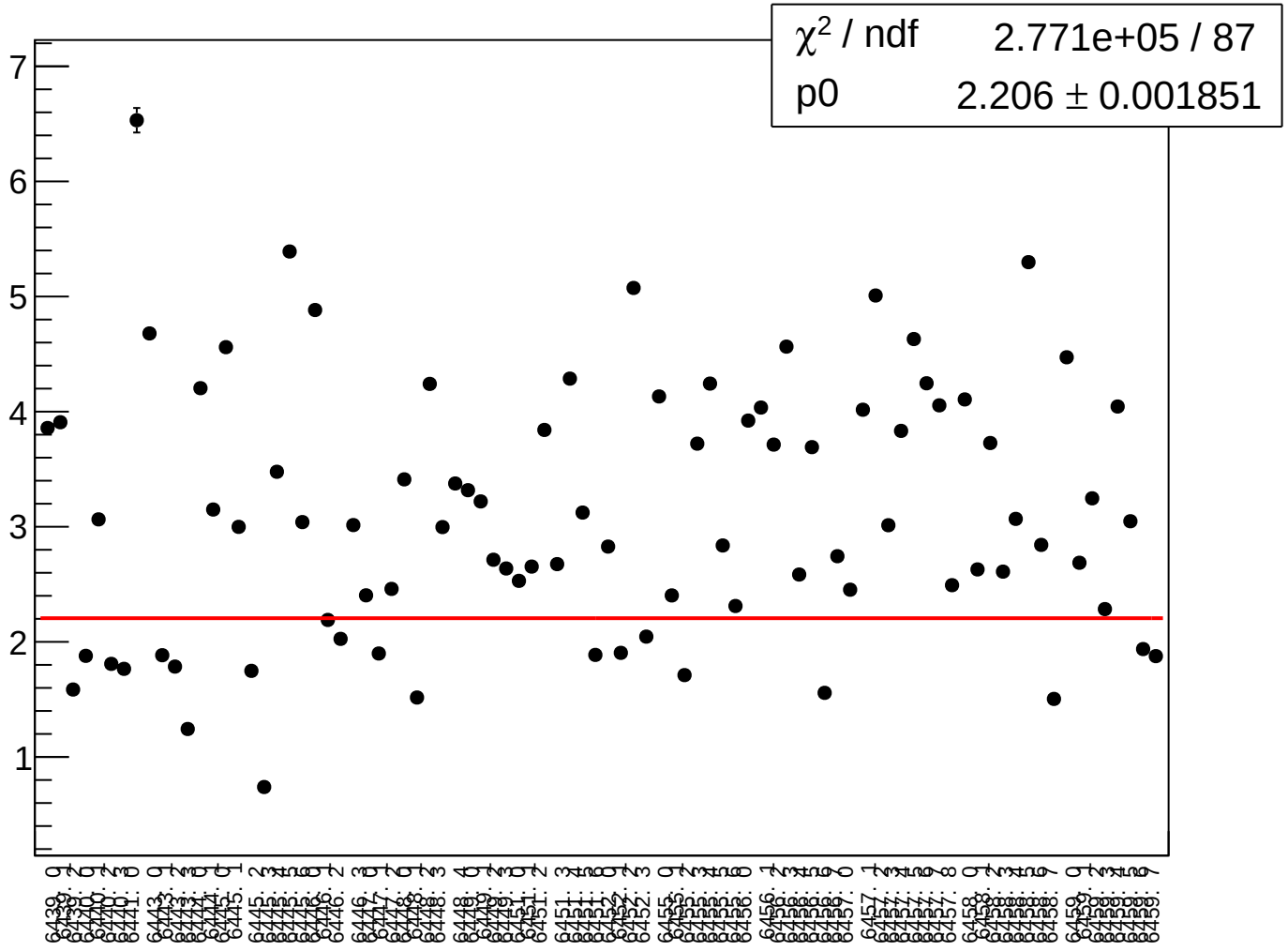

pull1D
Entries 88
Mean −0.01948
Std Dev 0.9656
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

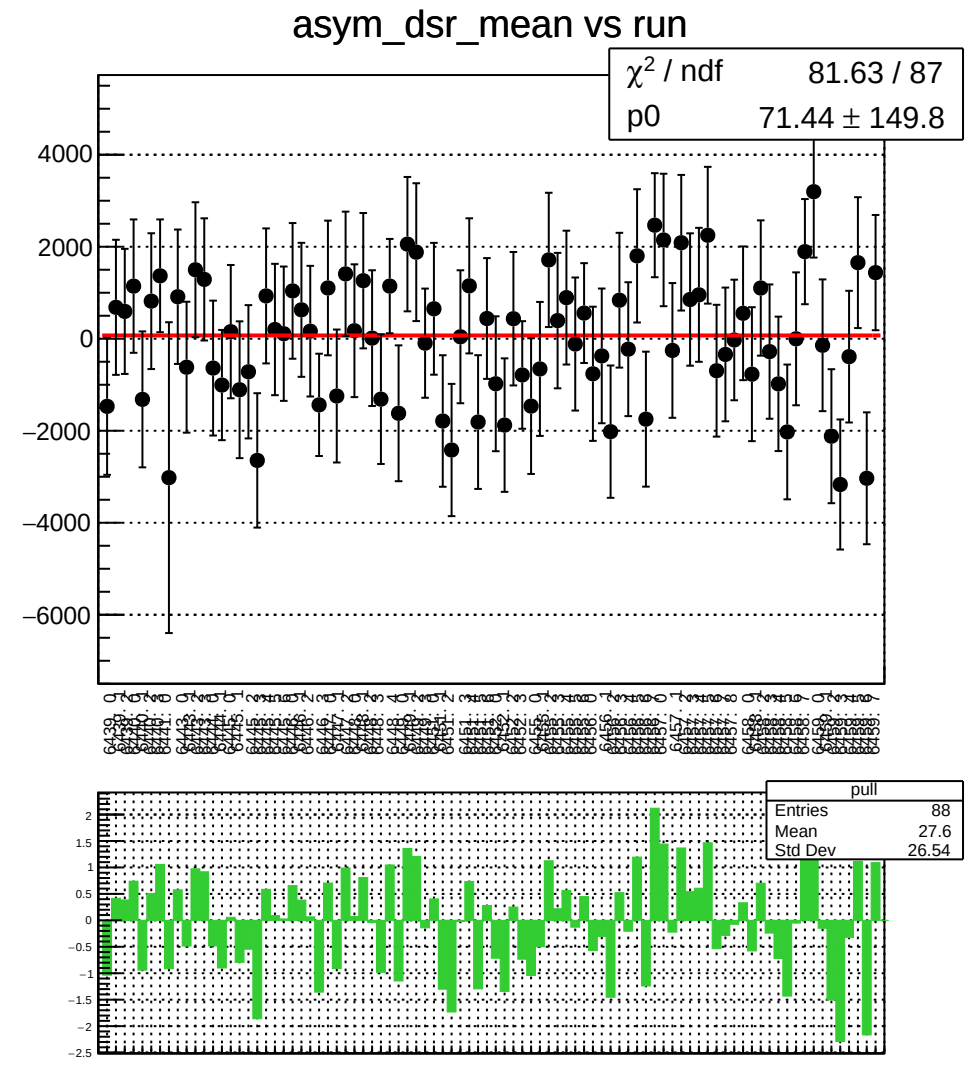

reg_asym_dsr_rms vs run
χ^2 / ndf 271.3 / 87
p0 138 ± 0.1059
150
148
146
144
142
140
138
136
134
132

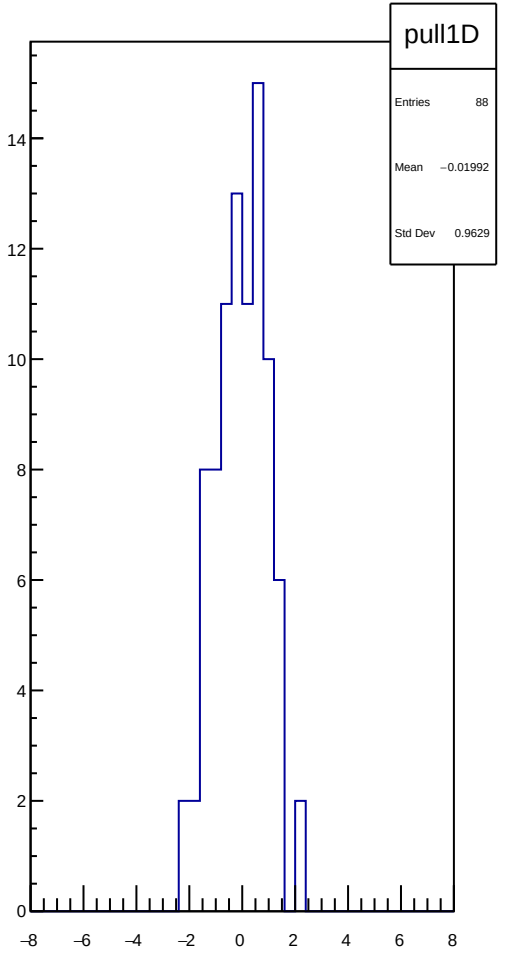

asym_dsr_correction_mean vs run
χ² / ndf 67.96 / 87
p0 −1.248 ± 2.618
pull
Entries 88
Mean −50.79
Std Dev 98.22

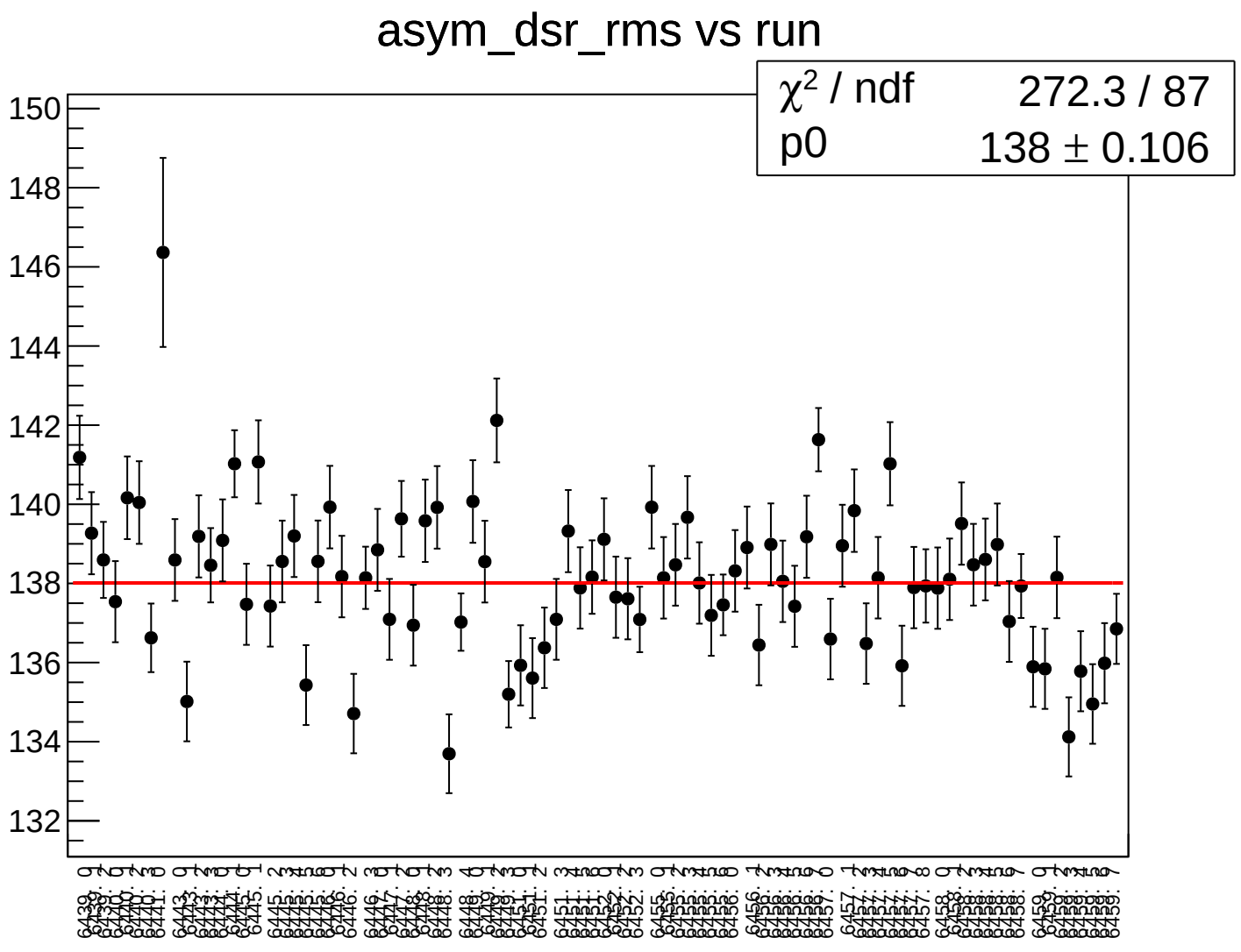

pull1D
Entries 88
Mean −0.0468
Std Dev 0.8776

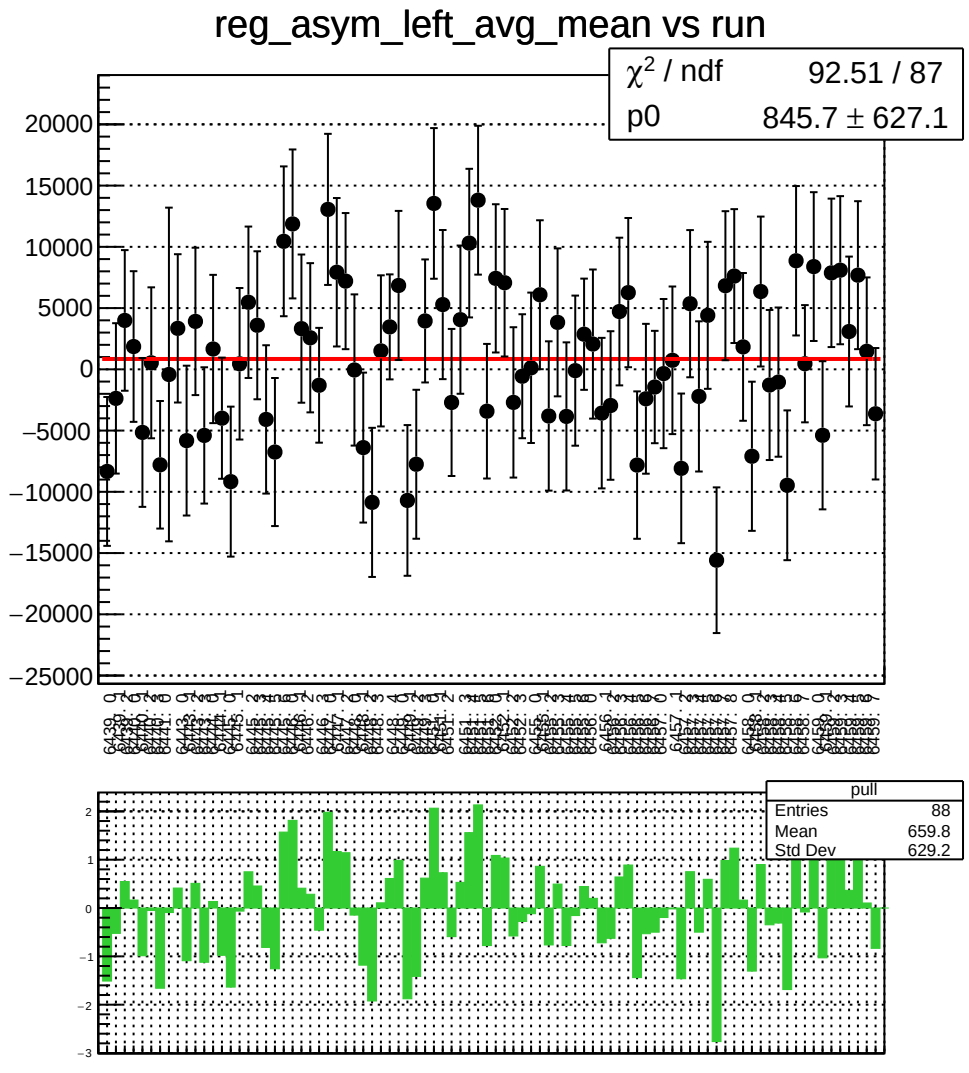
asym_dsr_correction_rms vs run

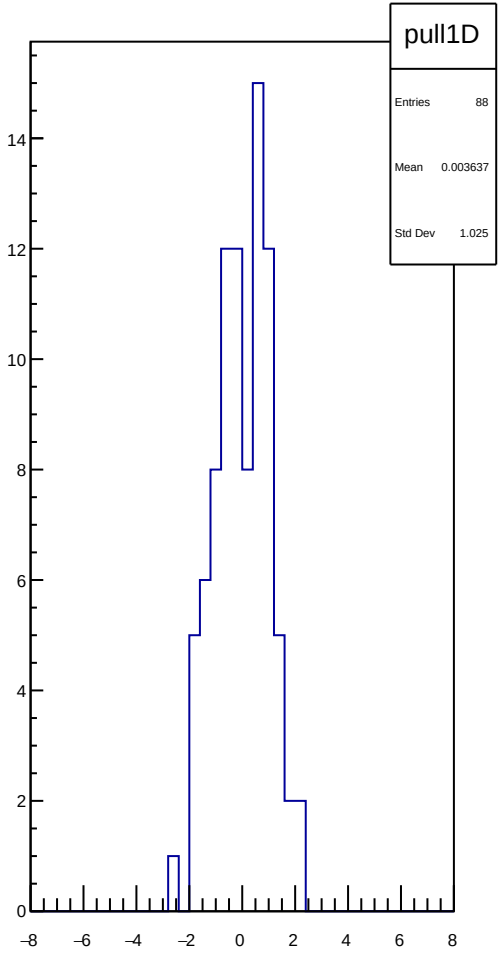


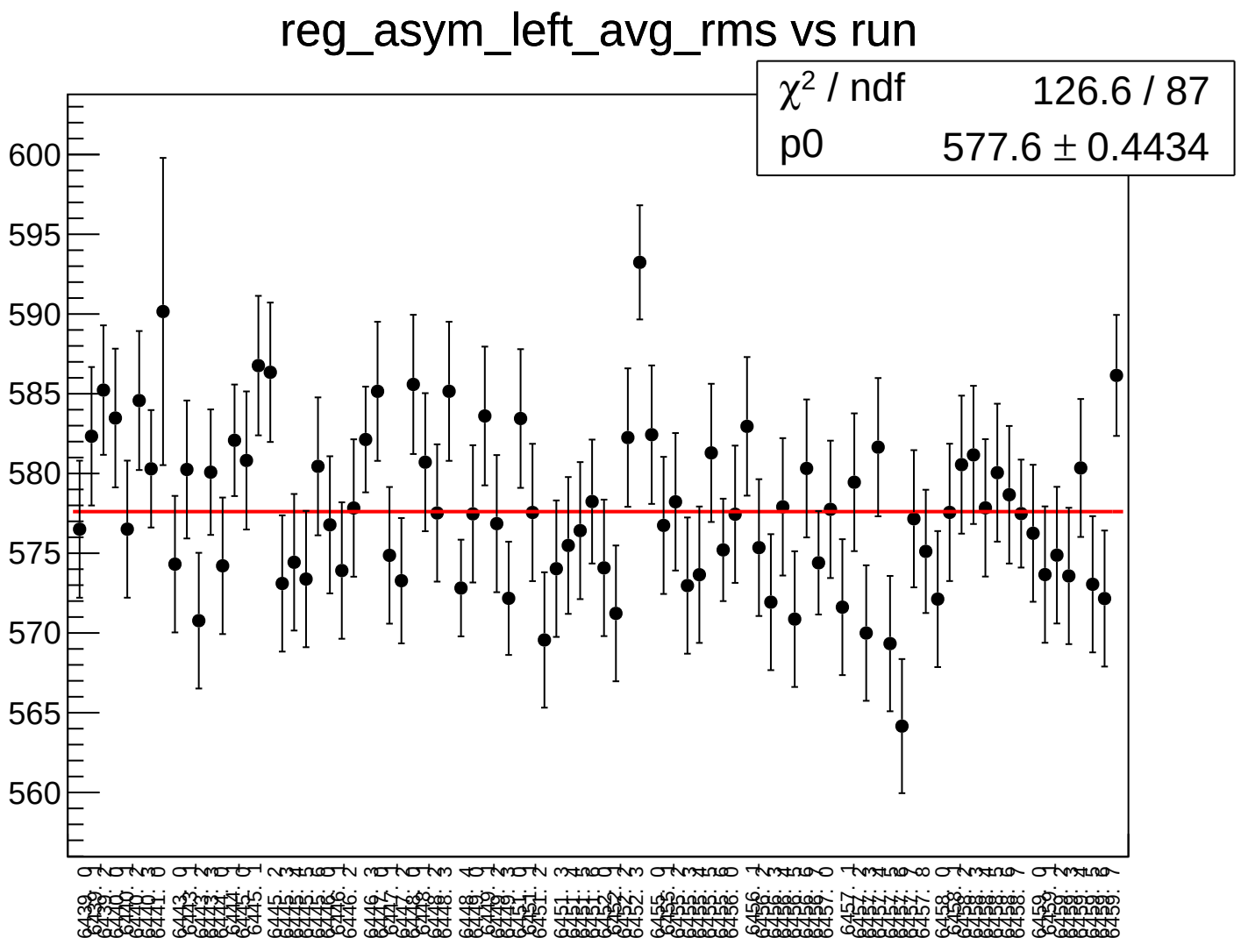

asym_dsr_mean vs run
χ² / ndf 81.63 / 87
p0 71.44 ± 149.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 27.6
Std Dev 26.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

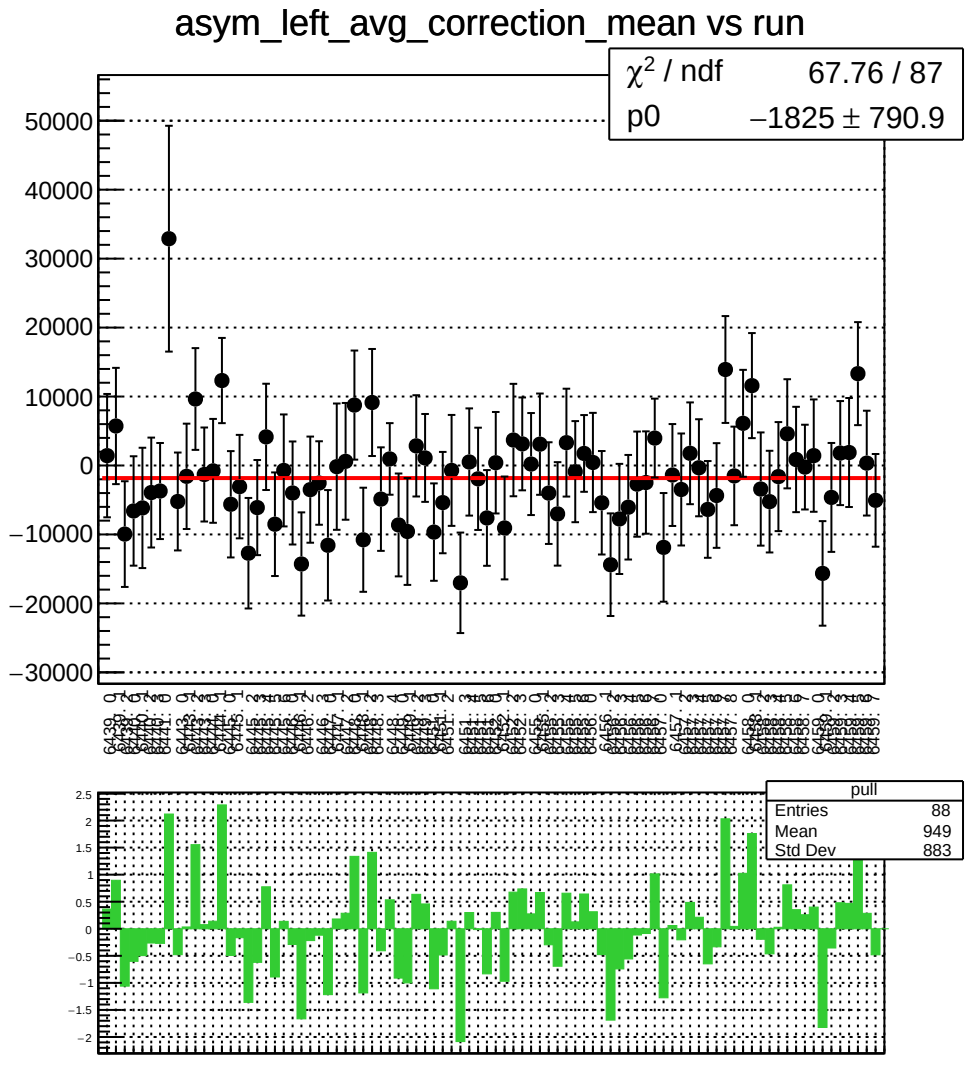

pull1D
Entries 88
Mean −0.01992
Std Dev 0.9629
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

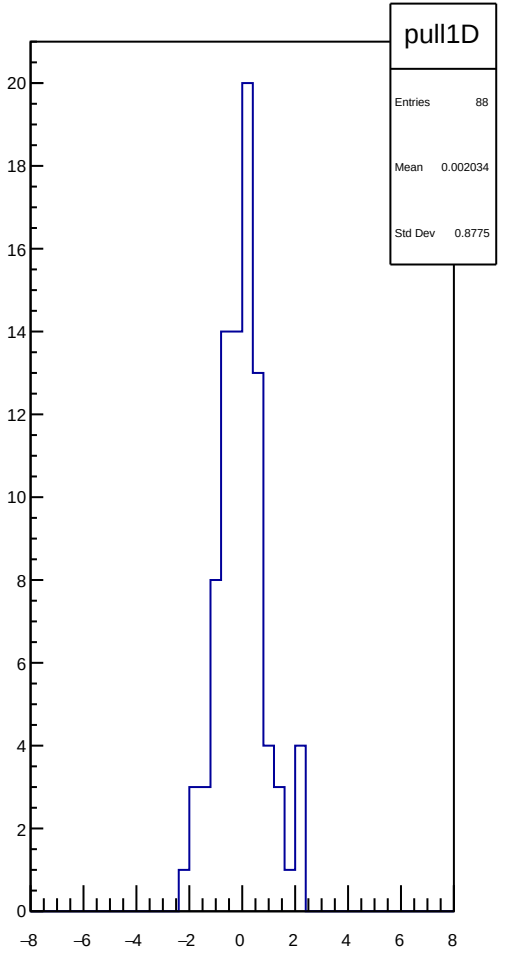

asym_dsr_rms vs run
χ^2 / ndf 272.3 / 87
p0 138 ± 0.106
150
148
146
144
142
140
138
136
134
132

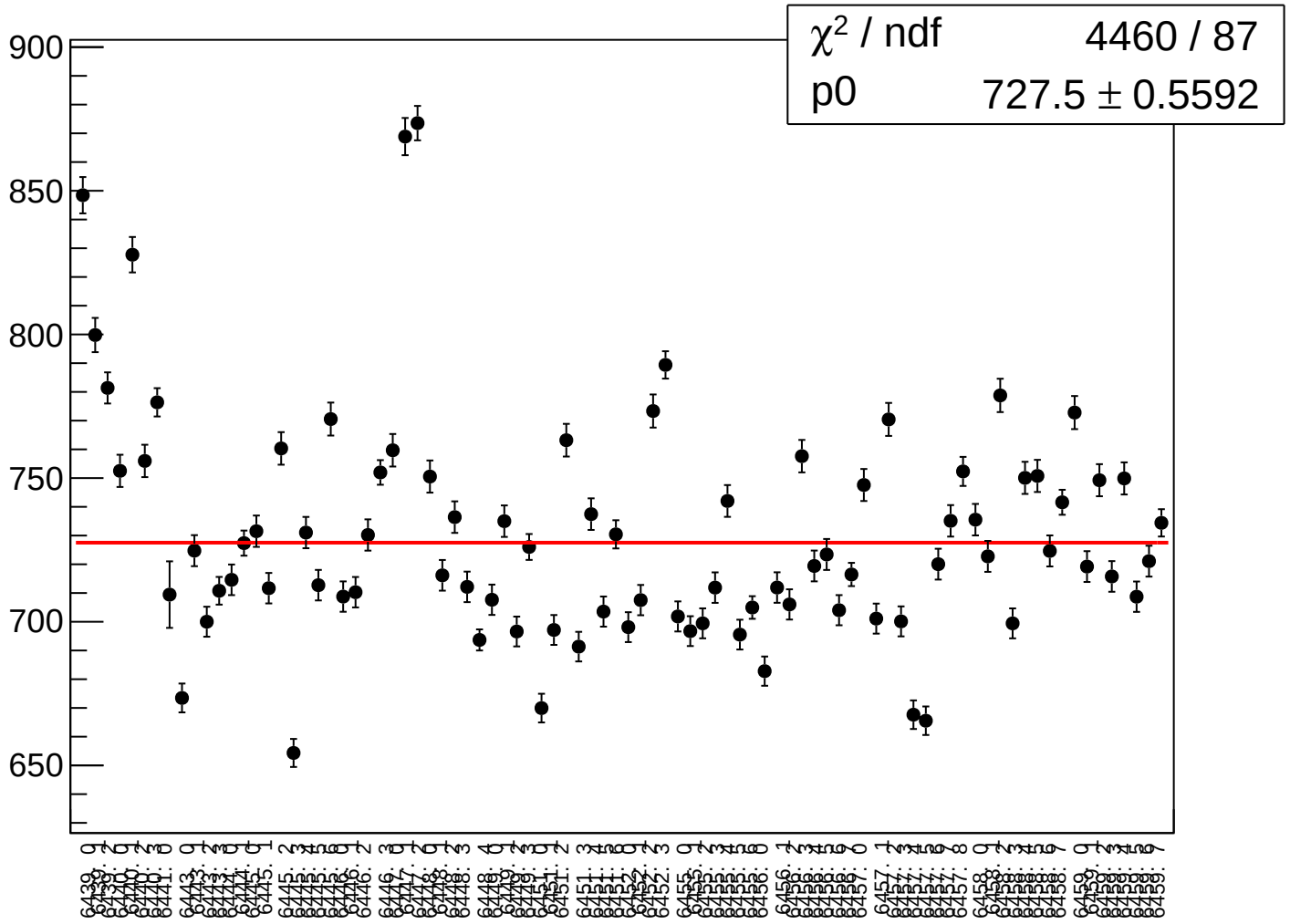

reg_asym_left_avg_mean vs run
χ² / ndf 92.51 / 87
p0 845.7 ± 627.1
pull
Entries 88
Mean 659.8
Std Dev 629.2

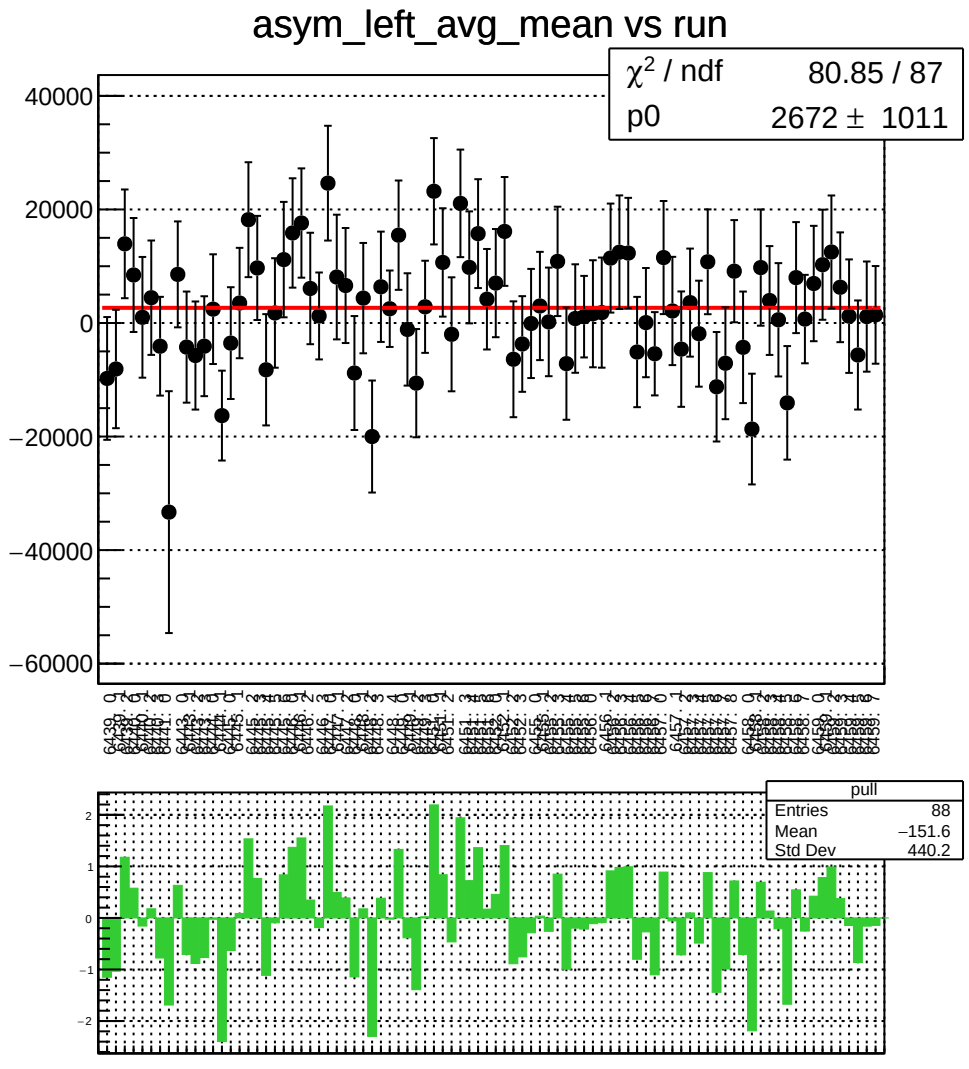

pull1D
Entries 88
Mean 0.003637
Std Dev 1.025

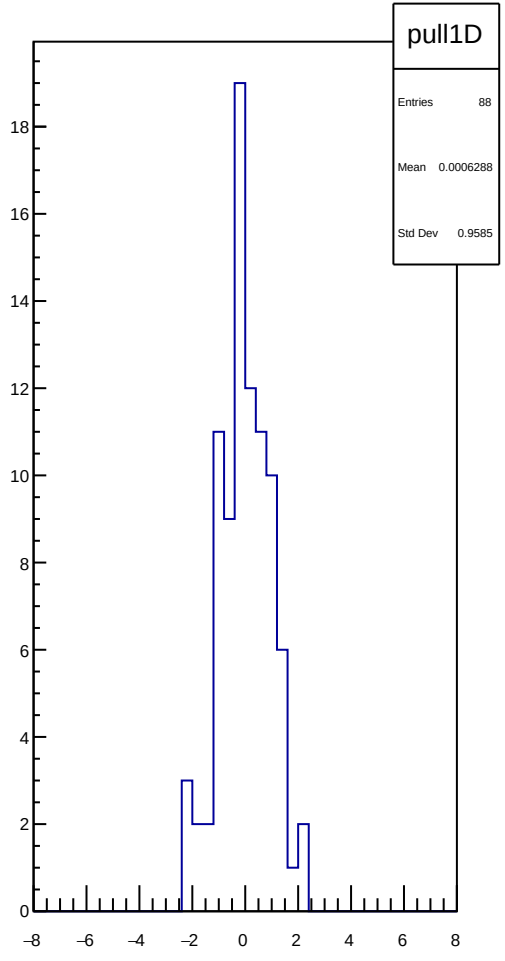

reg_asym_left_avg_rms vs run
χ² / ndf 126.6 / 87
p0 577.6 ± 0.4434
600
595
590
585
580
575
570
565
560

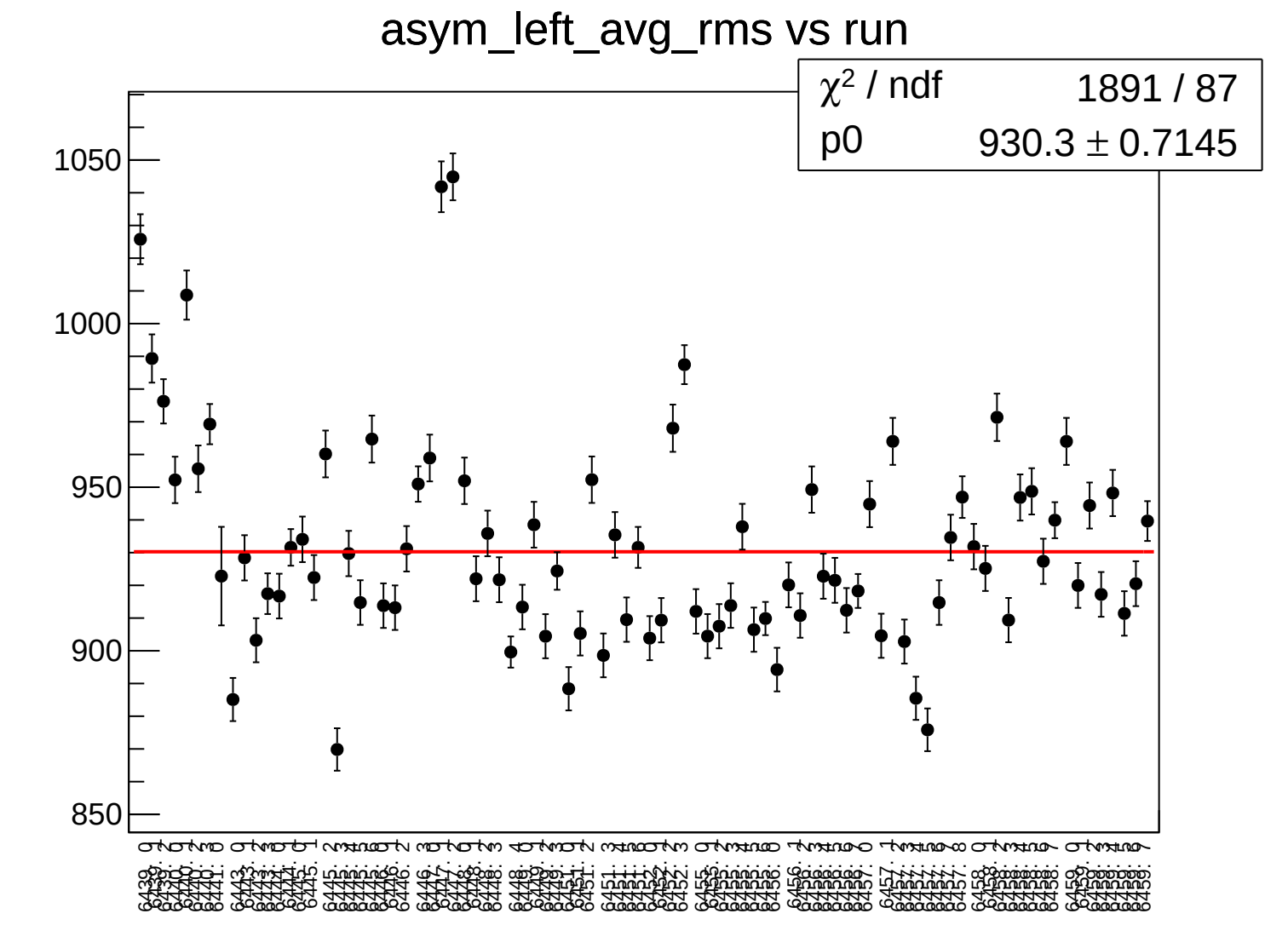

asym_left_avg_correction_mean vs run
χ² / ndf 67.76 / 87
p0 −1825 ± 790.9
pull
Entries 88
Mean 949
Std Dev 883

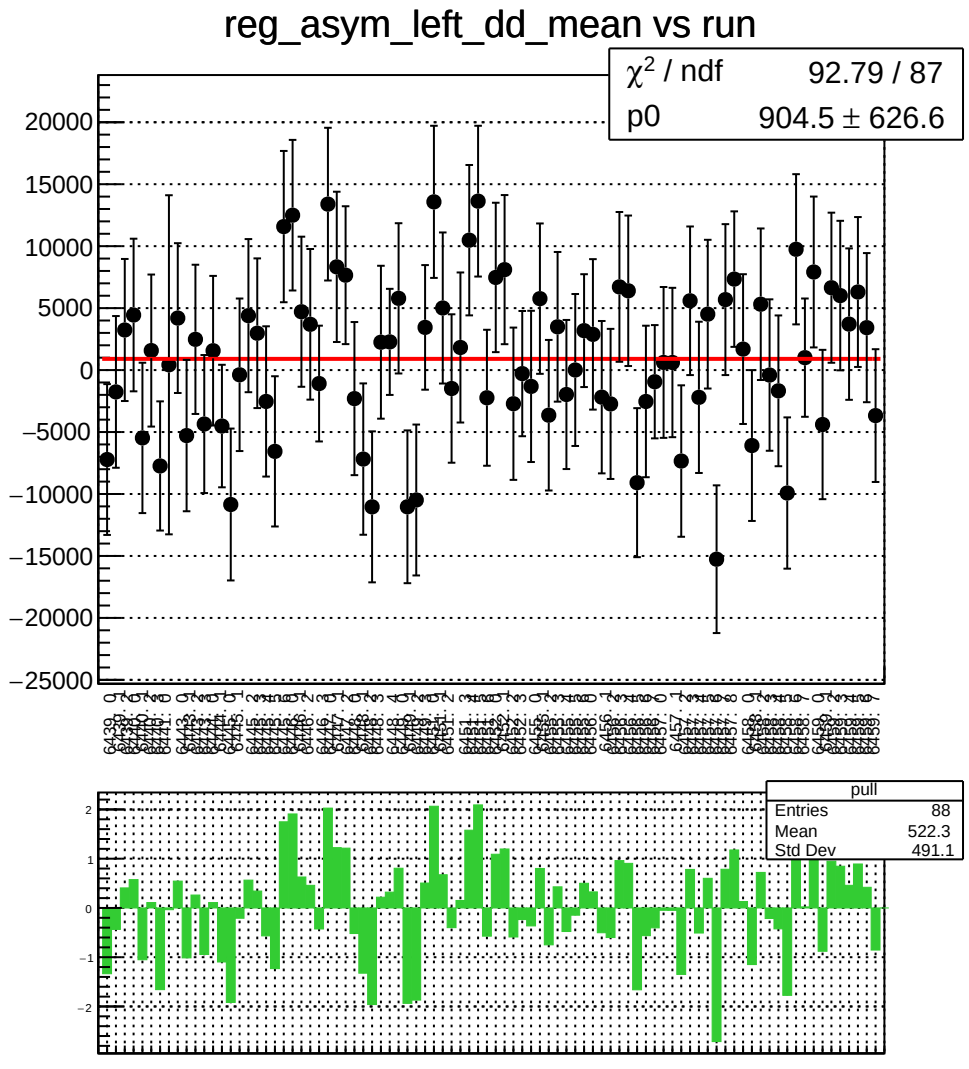

pull1D
Entries 88
Mean 0.002034
Std Dev 0.8775

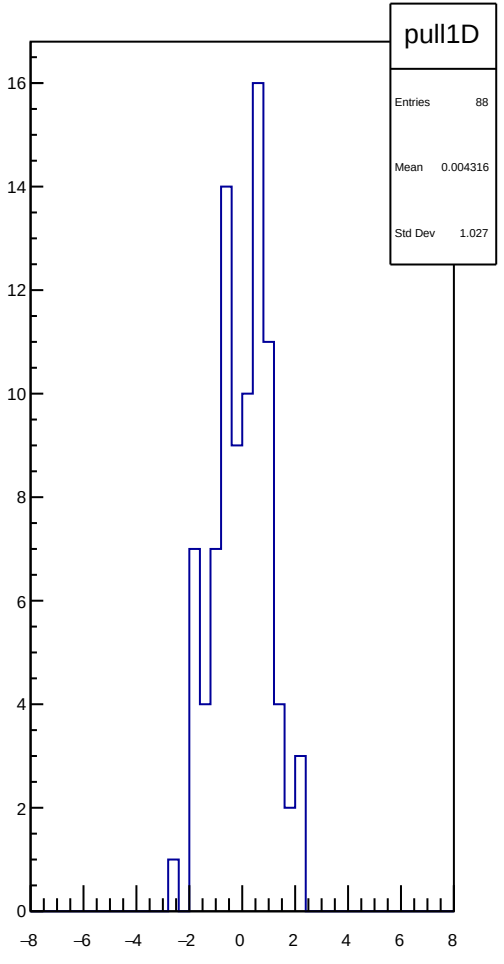

asym_left_avg_correction_rms vs run
χ² / ndf 4460 / 87
p0 727.5 ± 0.5592
900
850
800
750
700
650

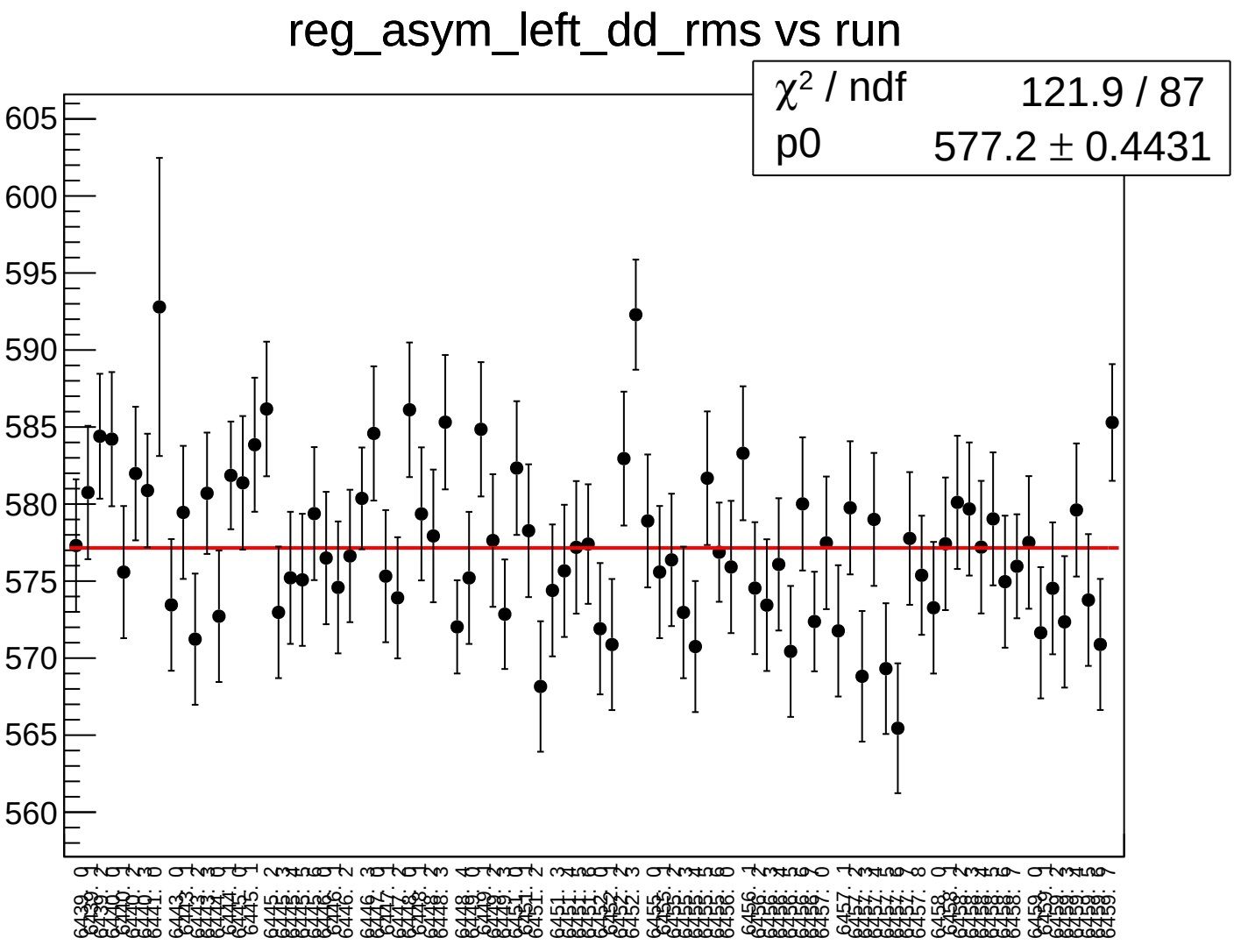

asym_left_avg_mean vs run
χ² / ndf 80.85 / 87
p0 2672 ± 1011
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −151.6
Std Dev 440.2
2
1
0
−1
−2

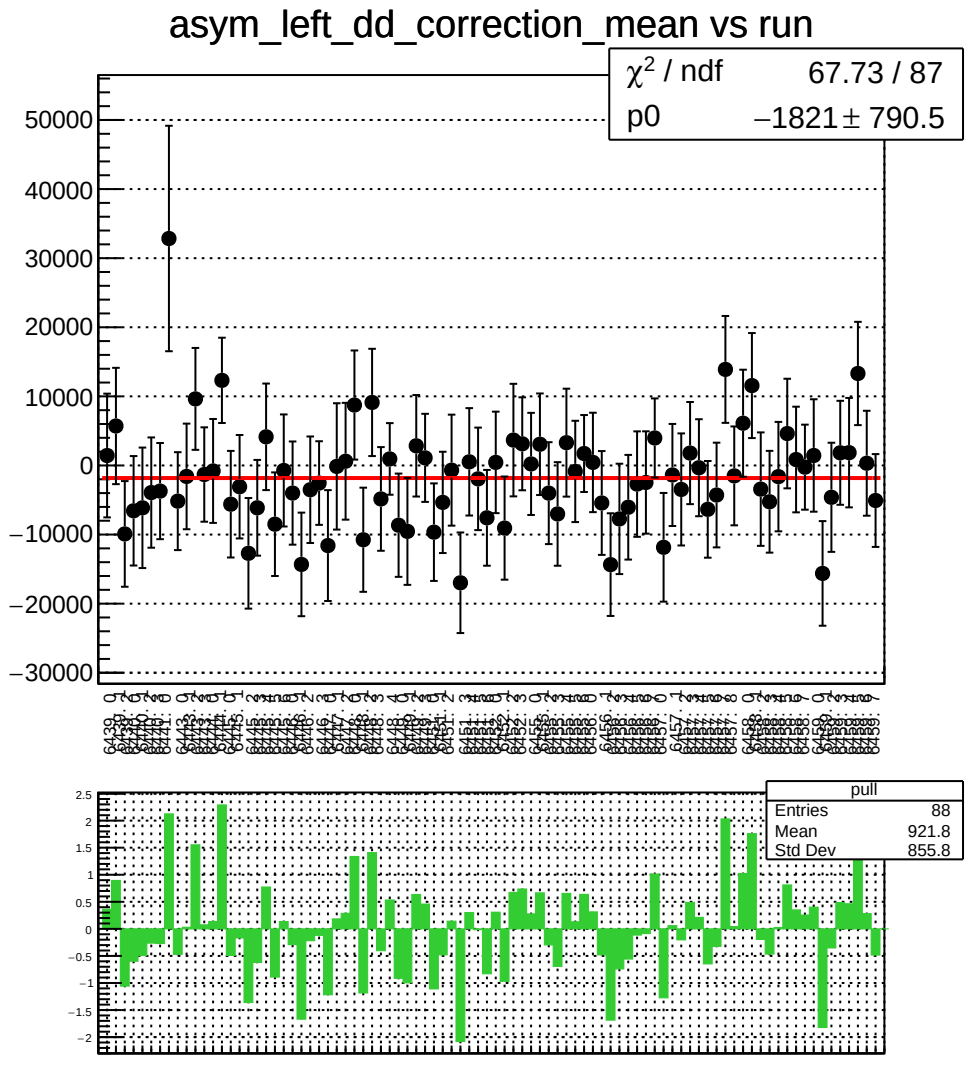

pull1D
Entries 88
Mean 0.0006288
Std Dev 0.9585
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

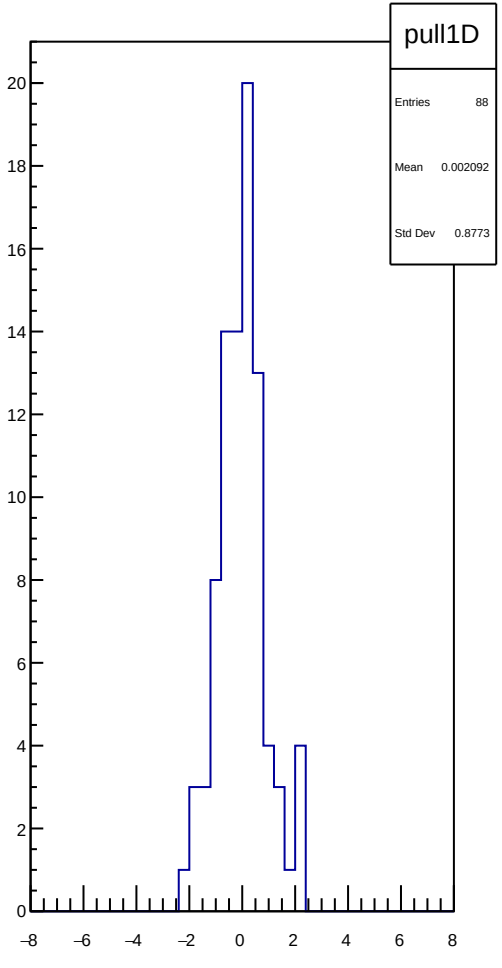

asym_left_avg_rms vs run
χ^2 / ndf 1891 / 87
p0 930.3 ± 0.7145
1050
1000
950
900
850

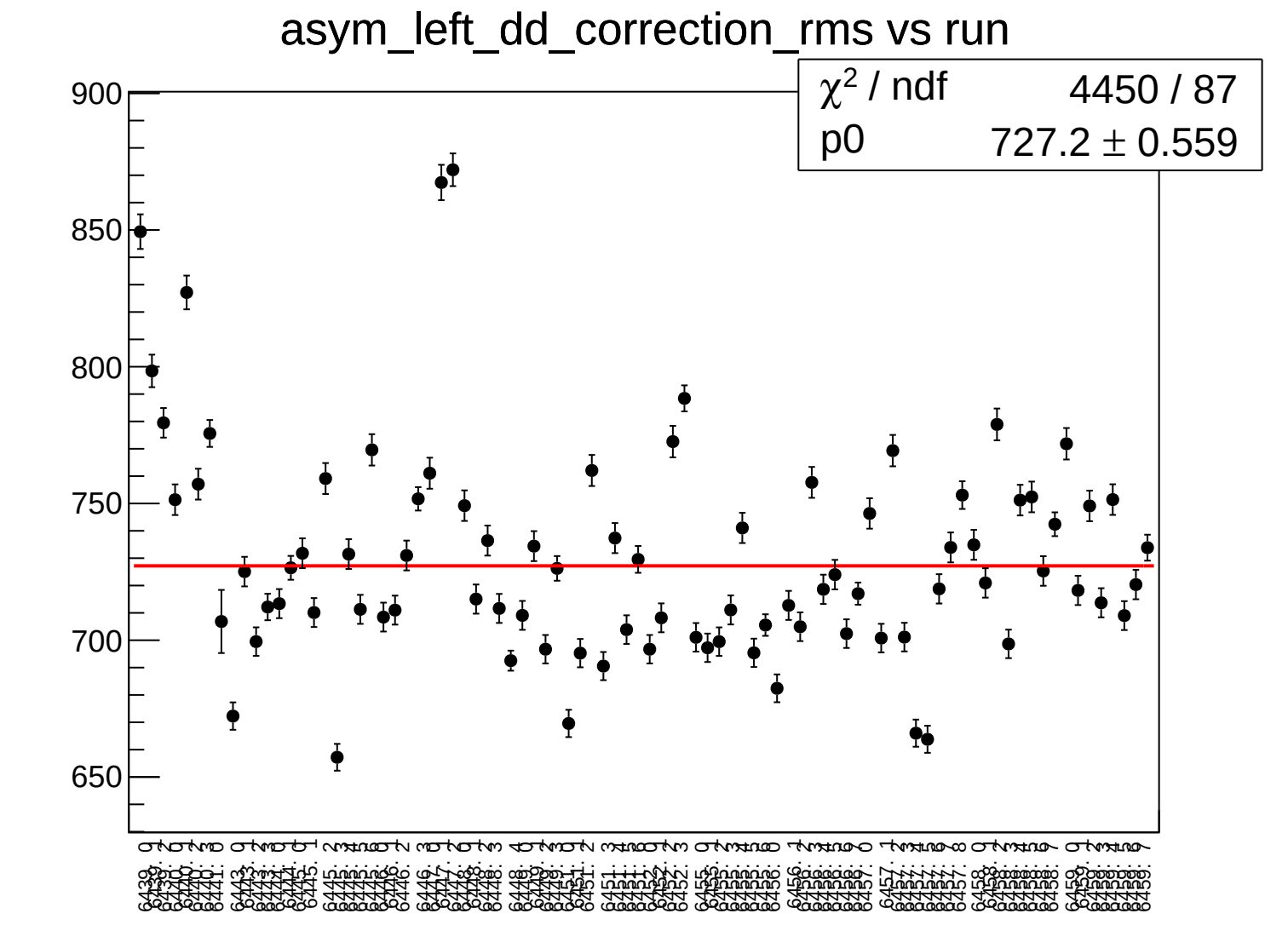

reg_asym_left_dd_mean vs run
χ² / ndf 92.79 / 87
p0 904.5 ± 626.6
pull
Entries 88
Mean 522.3
Std Dev 491.1

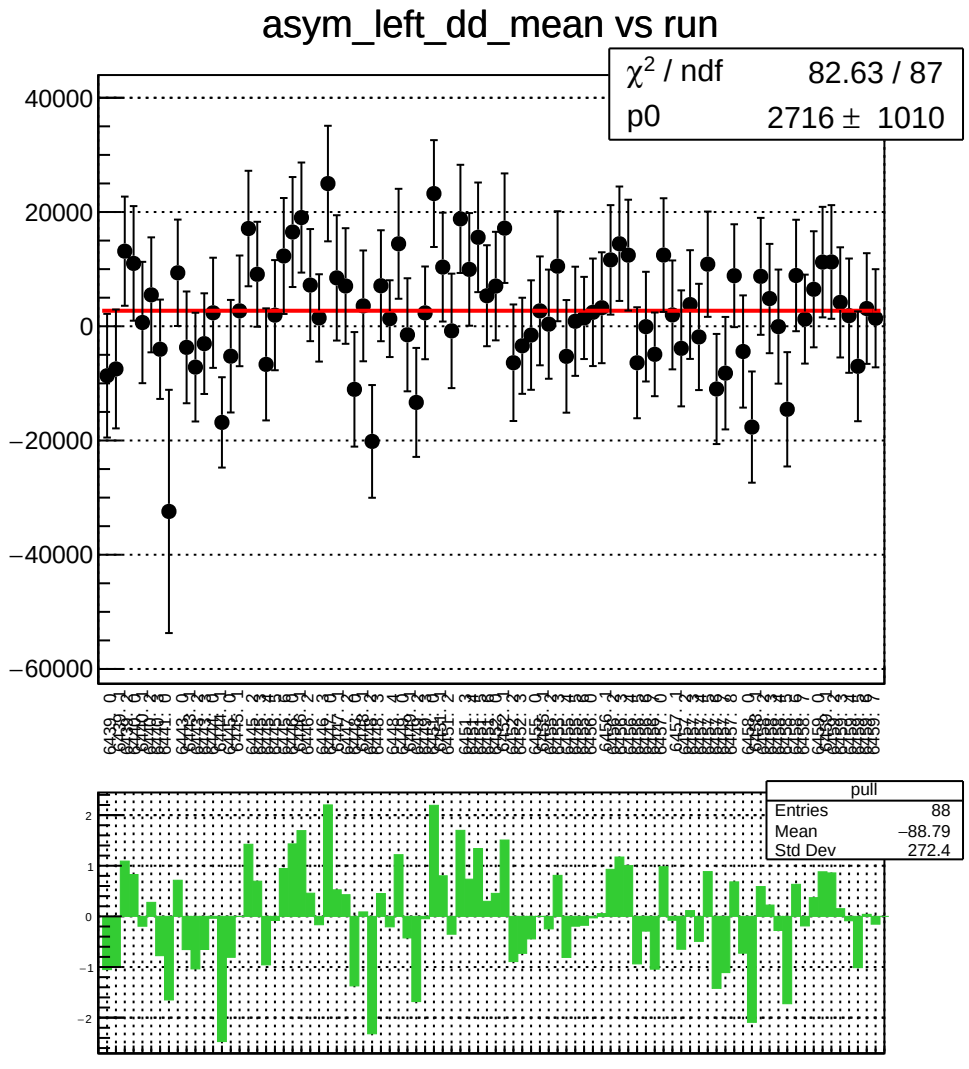

pull1D
Entries 88
Mean 0.004316
Std Dev 1.027

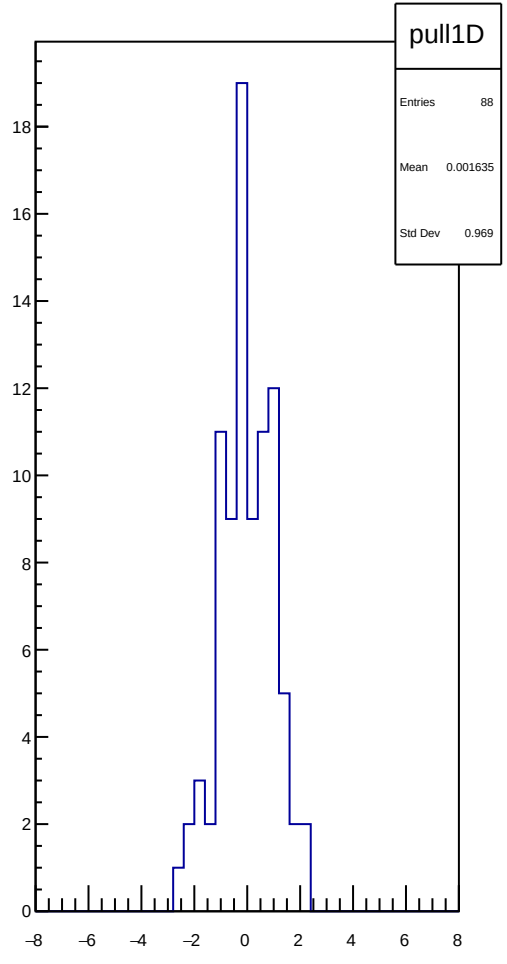

reg_asym_left_dd_rms vs run
χ² / ndf 121.9 / 87
p0 577.2 ± 0.4431
605
600
595
590
585
580
575
570
565
560

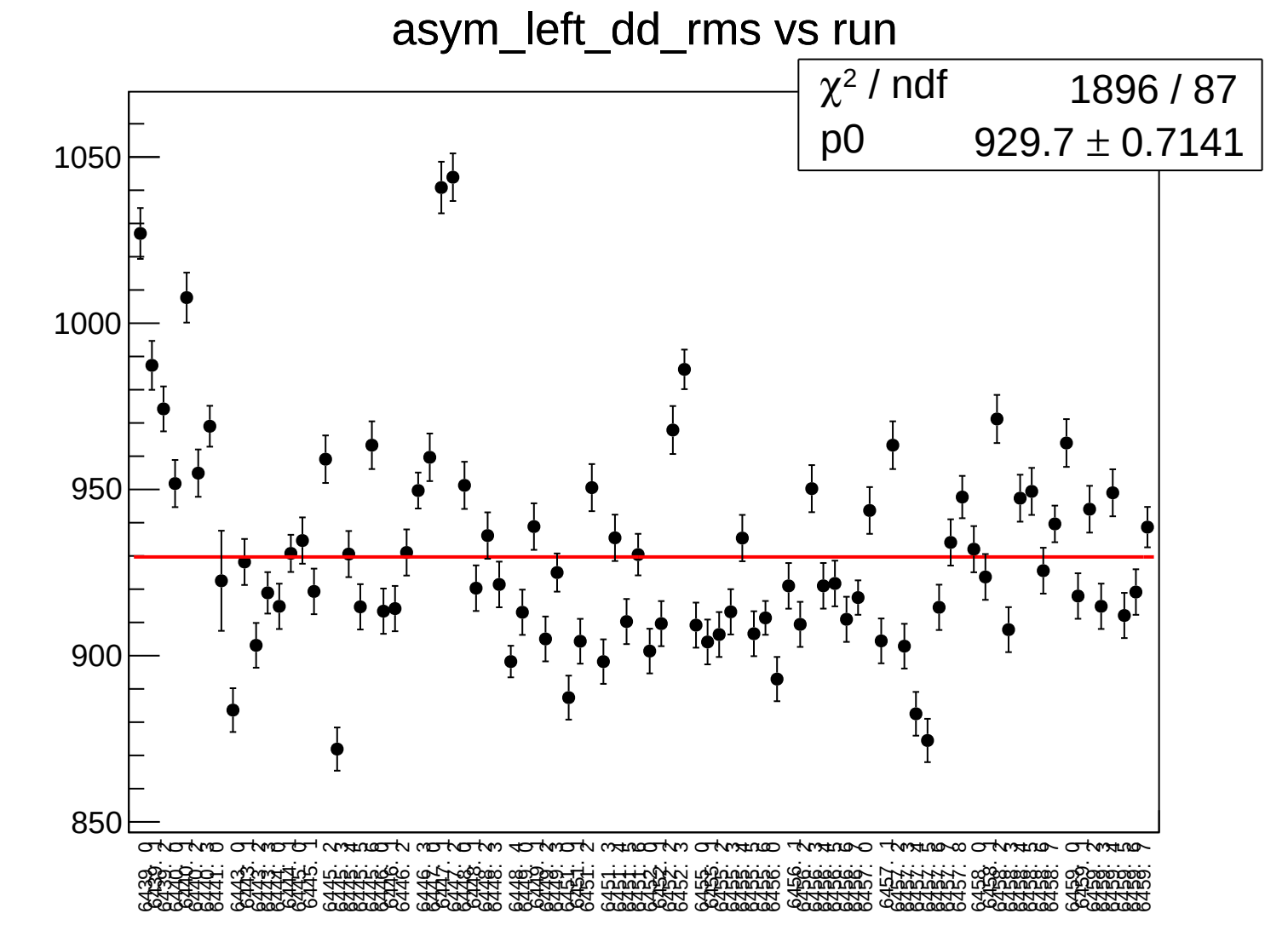

asym_left_dd_correction_mean vs run
χ² / ndf 67.73 / 87
p0 −1821 ± 790.5
pull
Entries 88
Mean 921.8
Std Dev 855.8

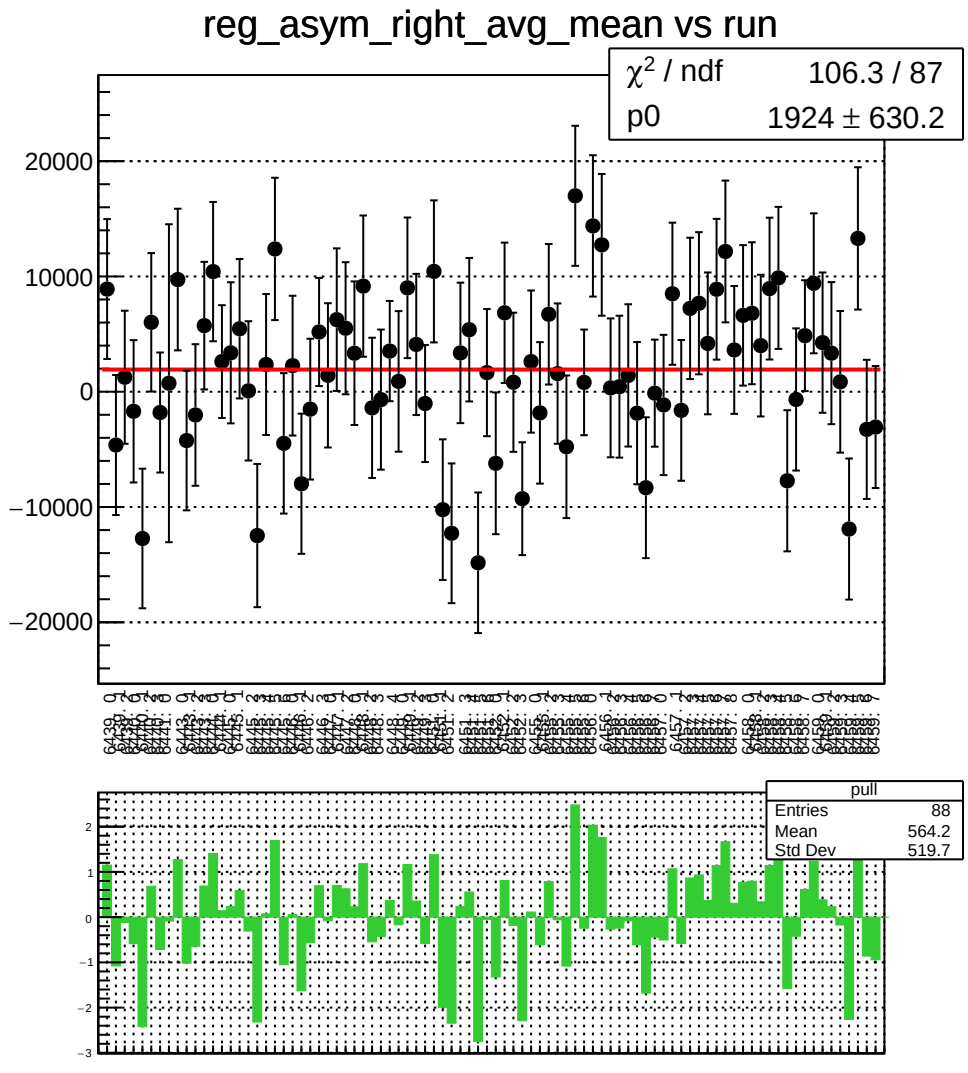

pull1D
Entries 88
Mean 0.002092
Std Dev 0.8773

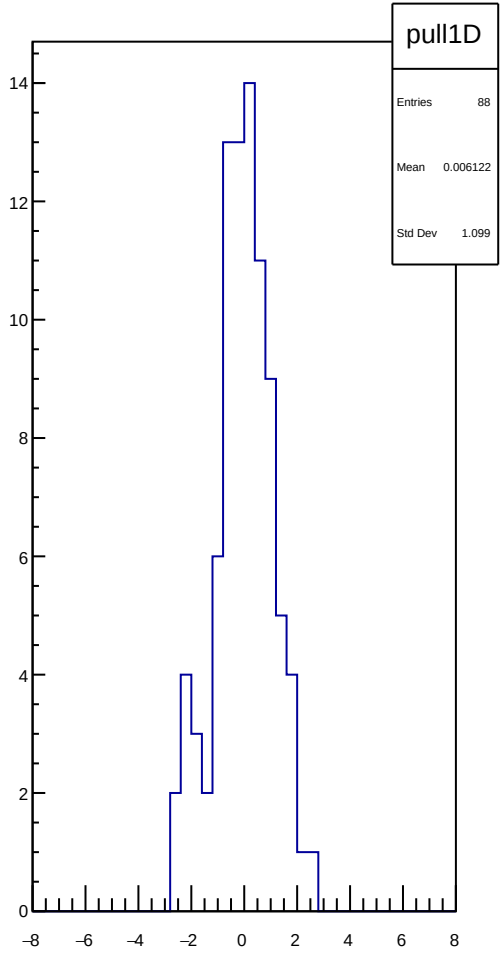

asym_left_dd_correction_rms vs run
χ² / ndf 4450 / 87
p0 727.2 ± 0.559
900
850
800
750
700
650

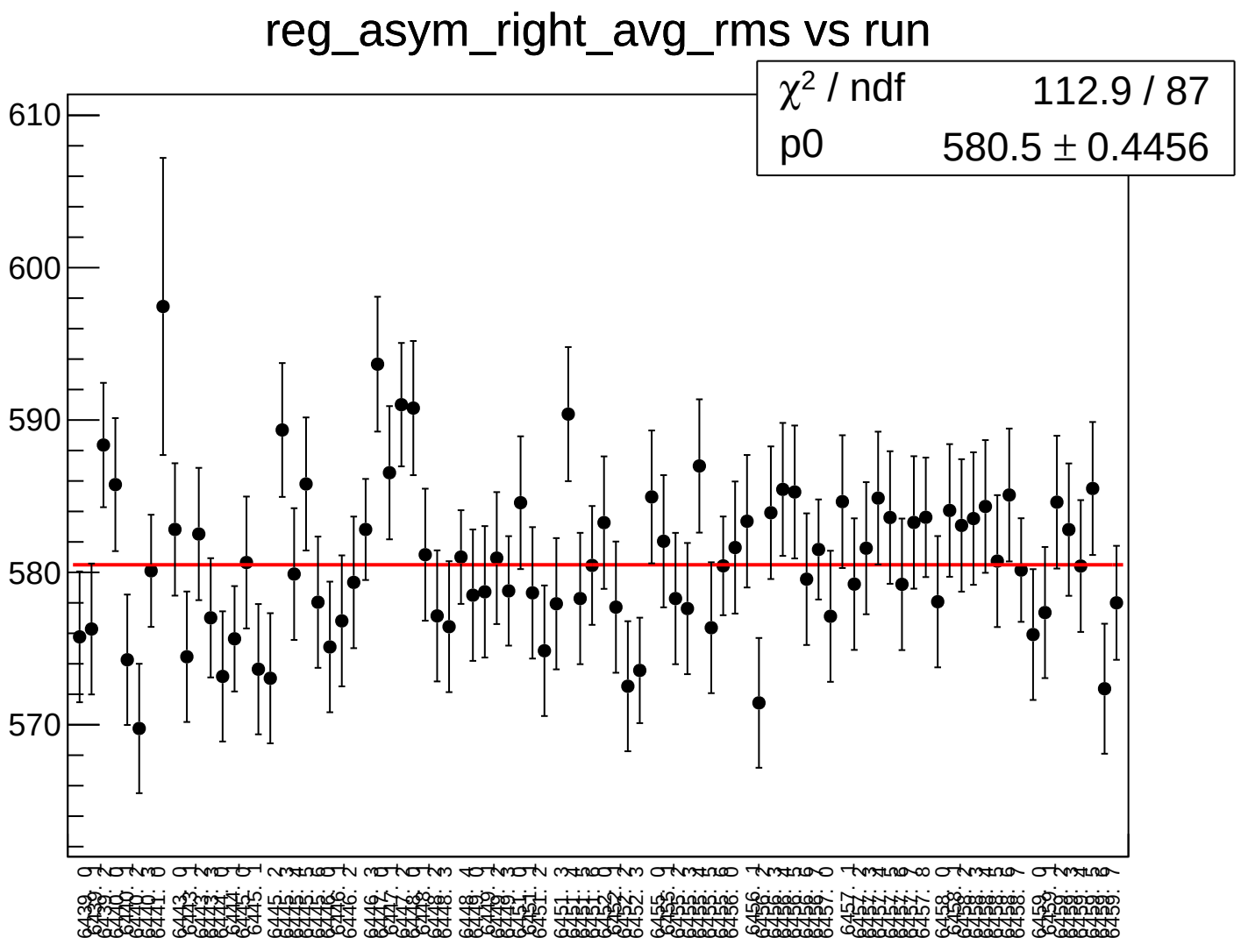

asym_left_dd_mean vs run
χ² / ndf 82.63 / 87
p0 2716 ± 1010
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −88.79
Std Dev 272.4
2
1
0
−1
−2

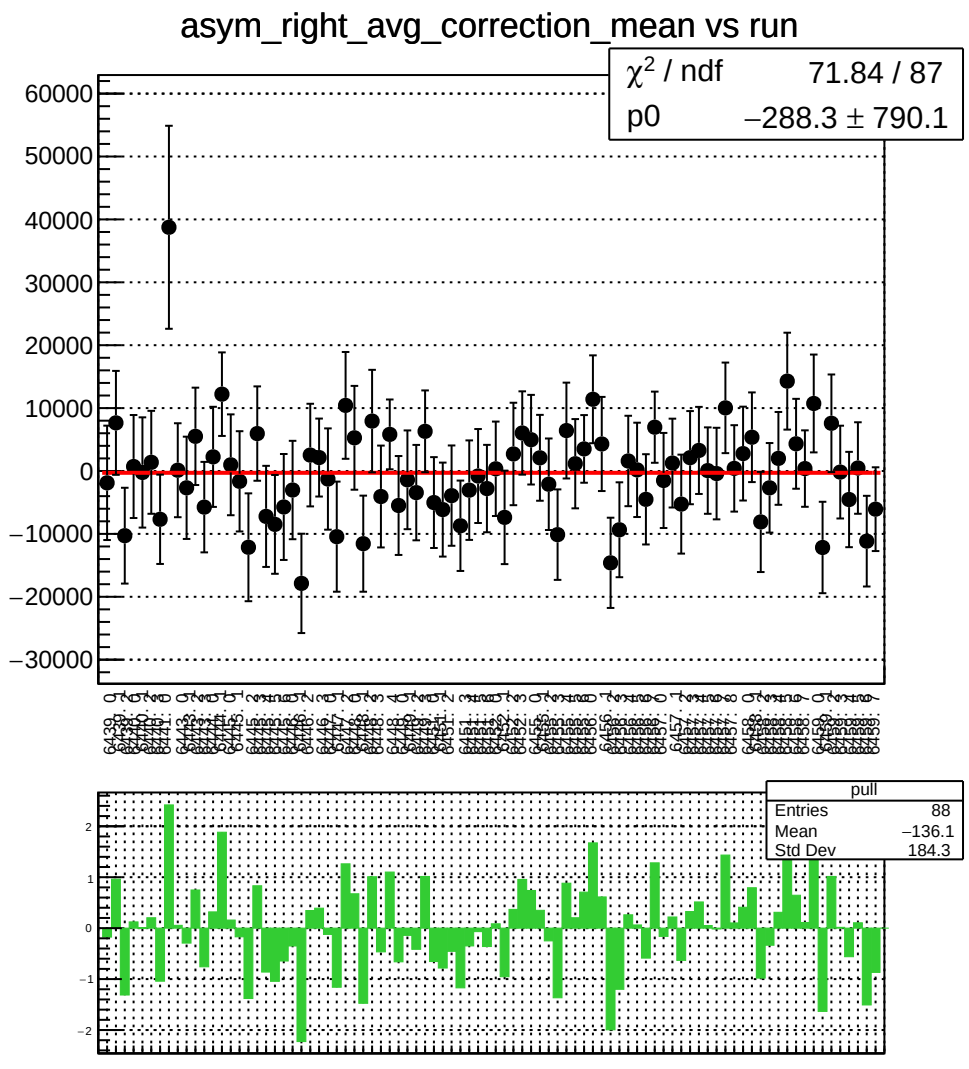

pull1D
Entries 88
Mean 0.001635
Std Dev 0.969
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

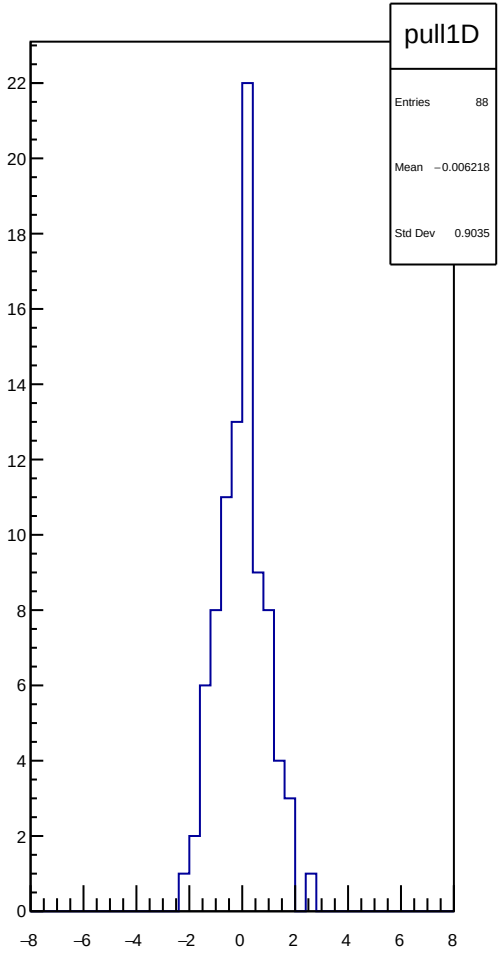

asym_left_dd_rms vs run
χ² / ndf 1896 / 87
p0 929.7 ± 0.7141
1050
1000
950
900
850

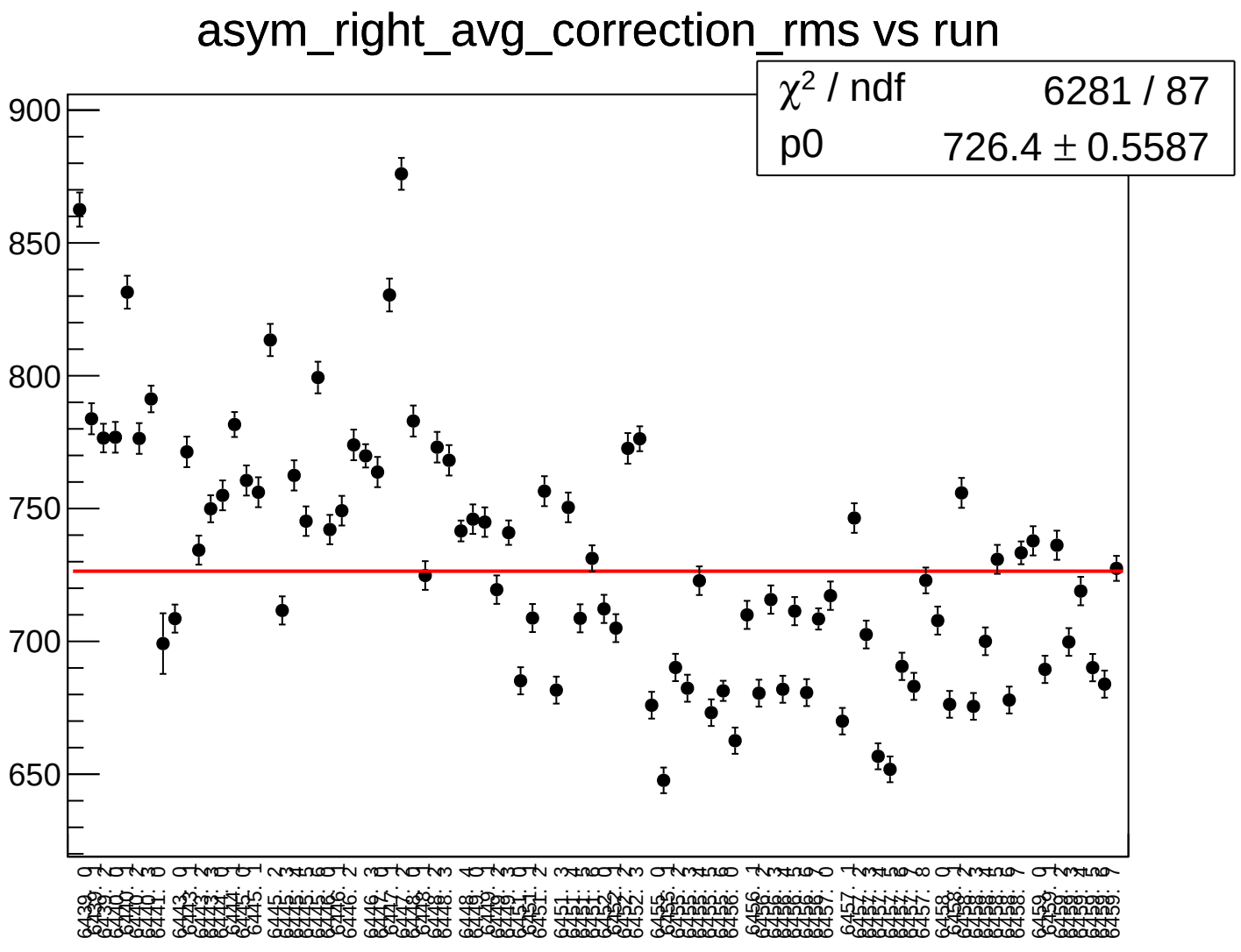

reg_asym_right_avg_mean vs run
χ² / ndf 106.3 / 87
p0 1924 ± 630.2
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 564.2
Std Dev 519.7
2
1
0
−1
−2
−3

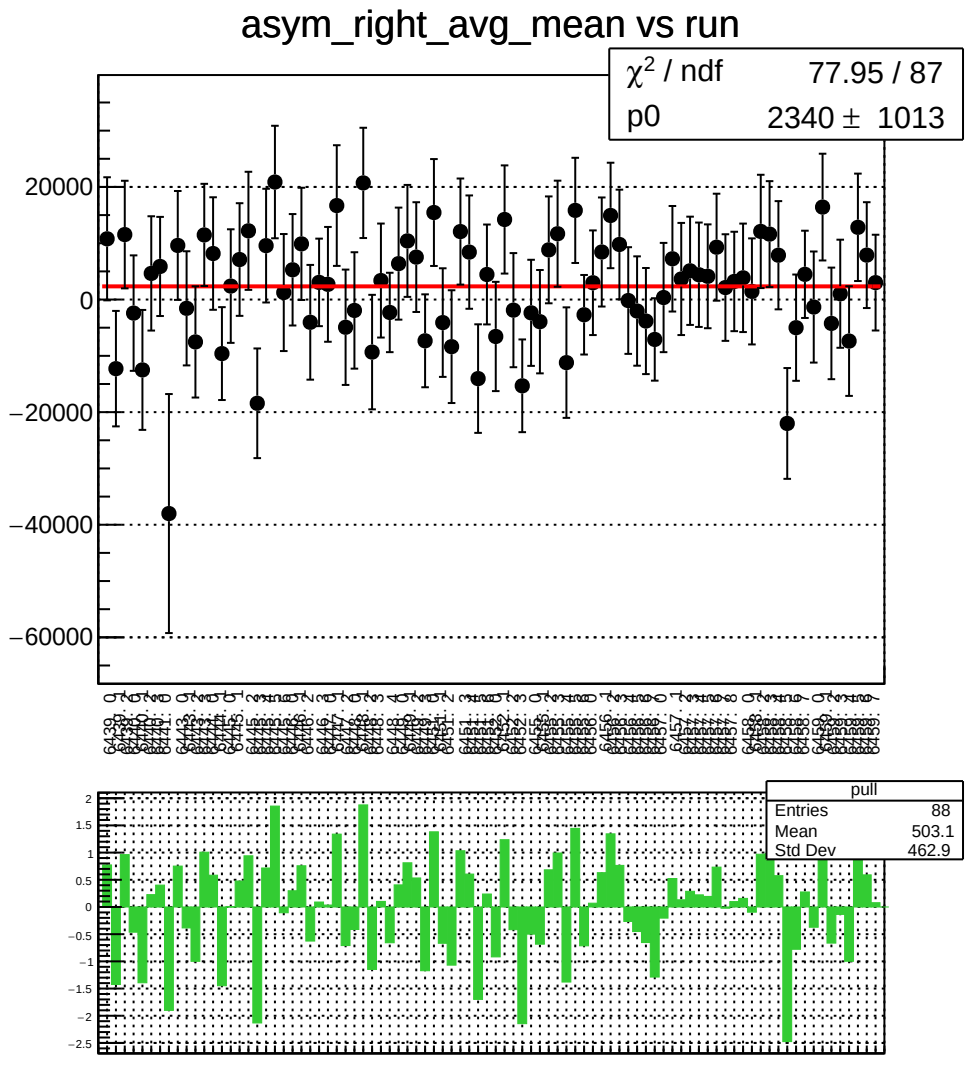

pull1D
Entries 88
Mean 0.006122
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

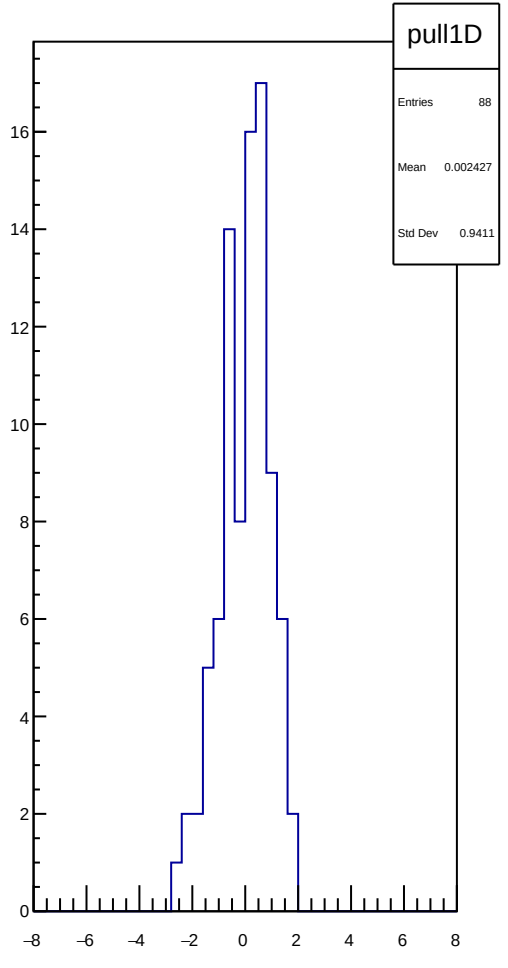

reg_asym_right_avg_rms vs run
χ² / ndf 112.9 / 87
p0 580.5 ± 0.4456
610
600
590
580
570

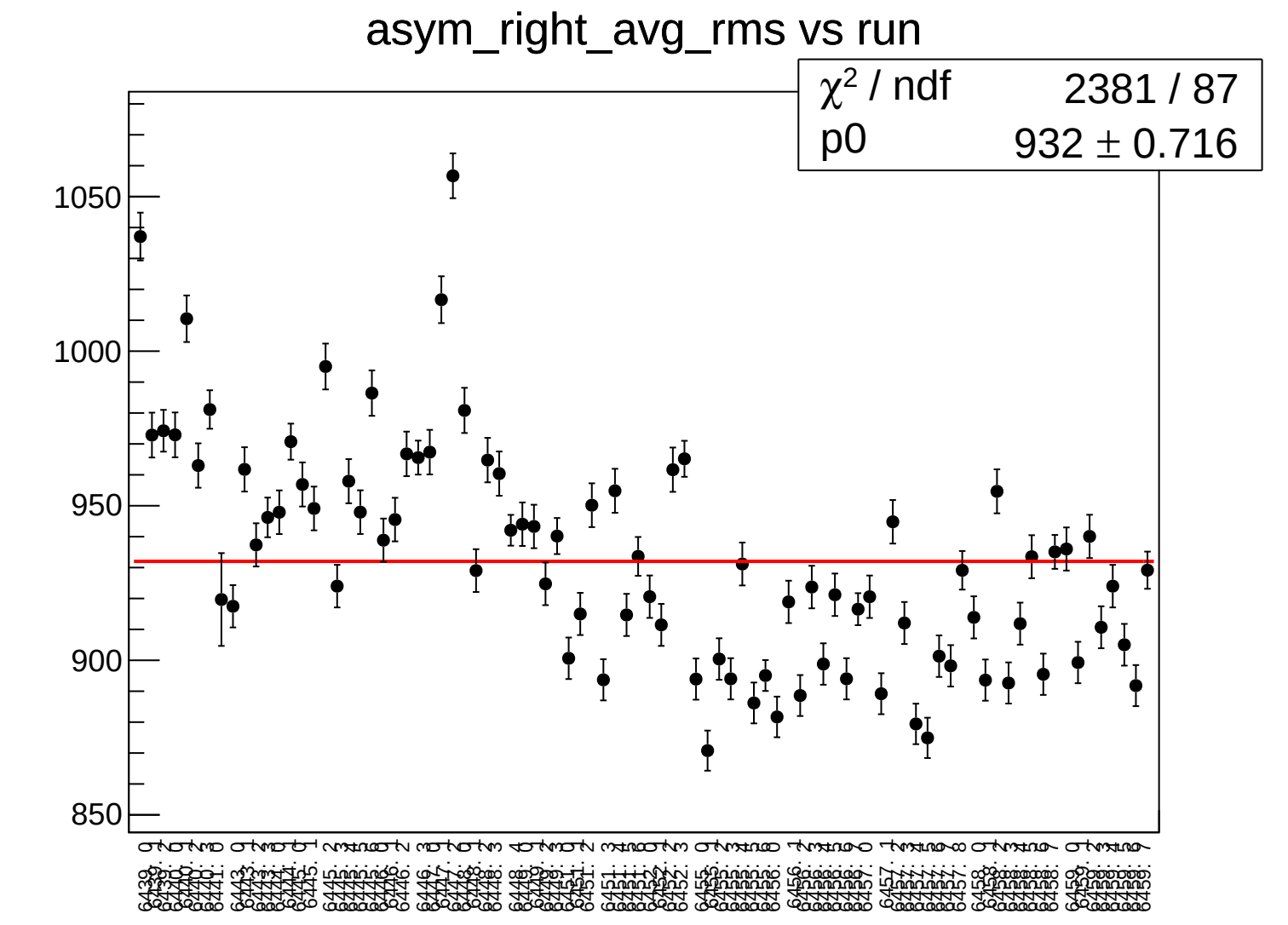

asym_right_avg_correction_mean vs run
χ² / ndf 71.84 / 87
p0 −288.3 ± 790.1
pull
Entries 88
Mean −136.1
Std Dev 184.3

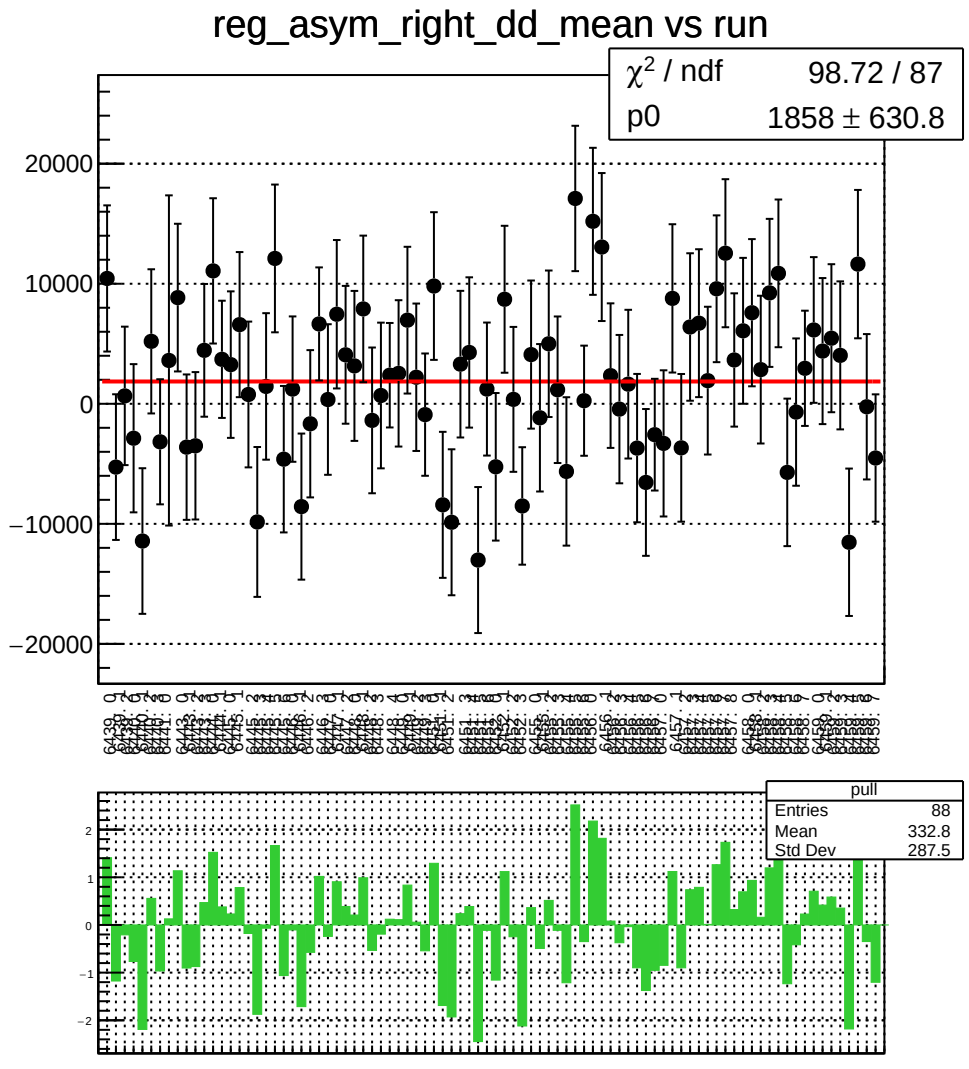

pull1D
Entries 88
Mean −0.006218
Std Dev 0.9035

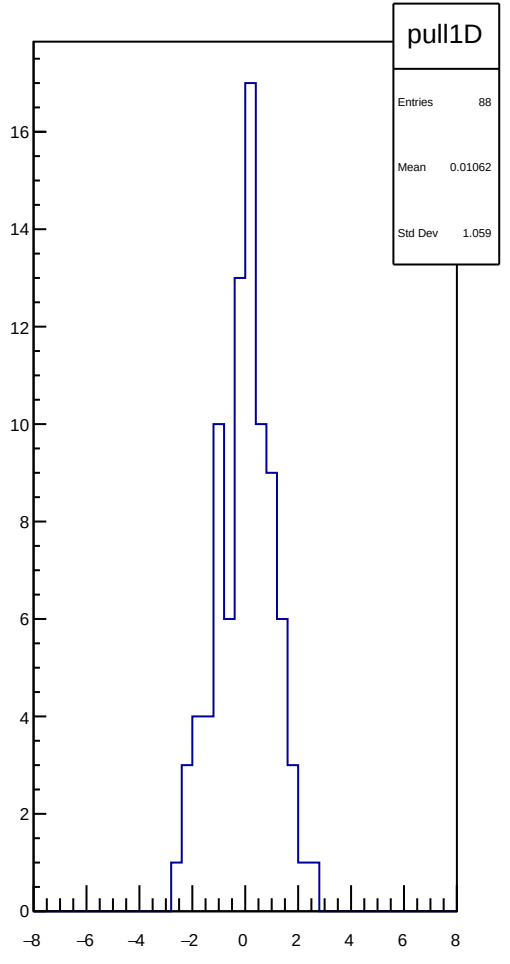

asym_right_avg_correction_rms vs run
χ² / ndf 6281 / 87
p0 726.4 ± 0.5587
900
850
800
750
700
650

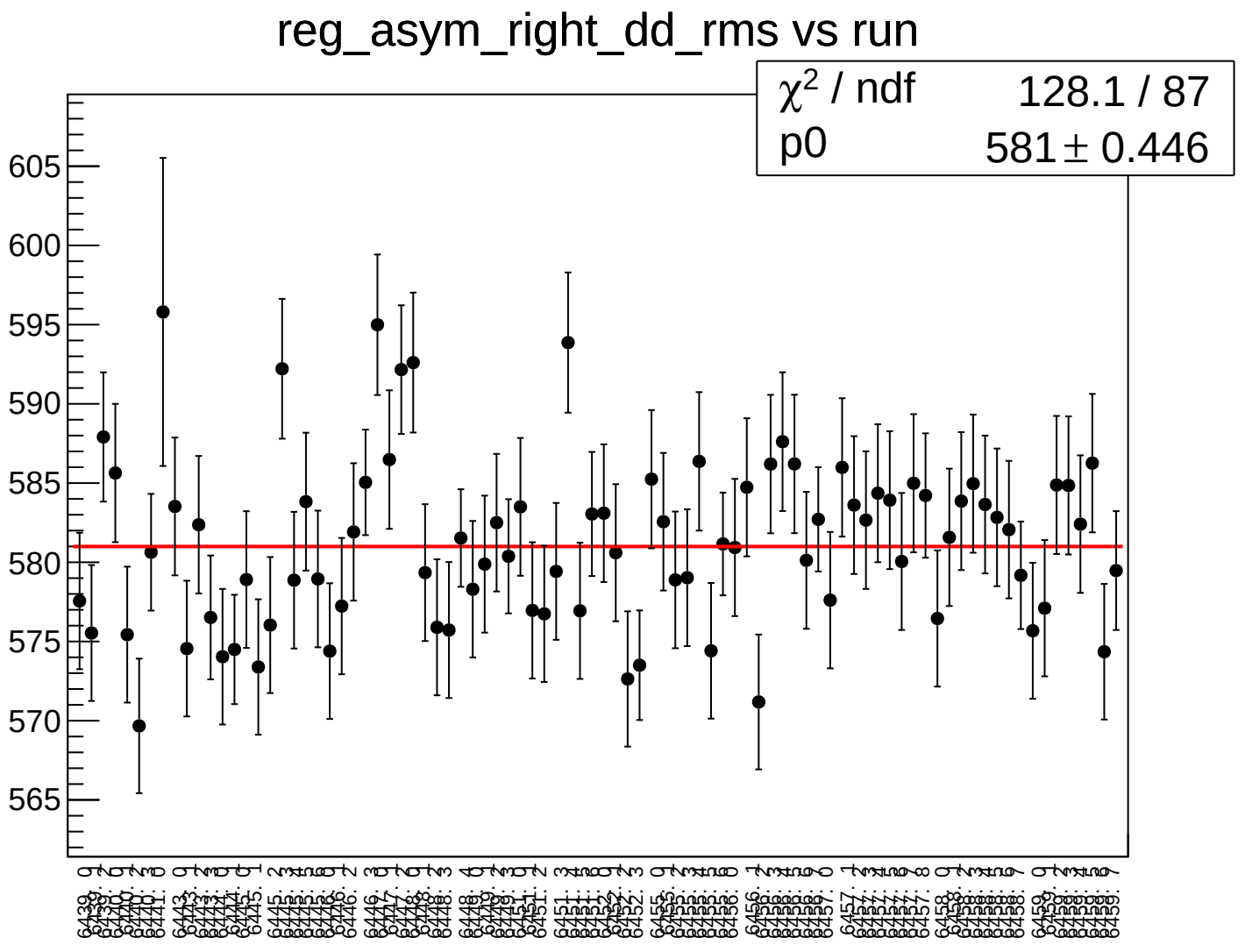

asym_right_avg_mean vs run
χ² / ndf 77.95 / 87
p0 2340 ± 1013
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 503.1
Std Dev 462.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

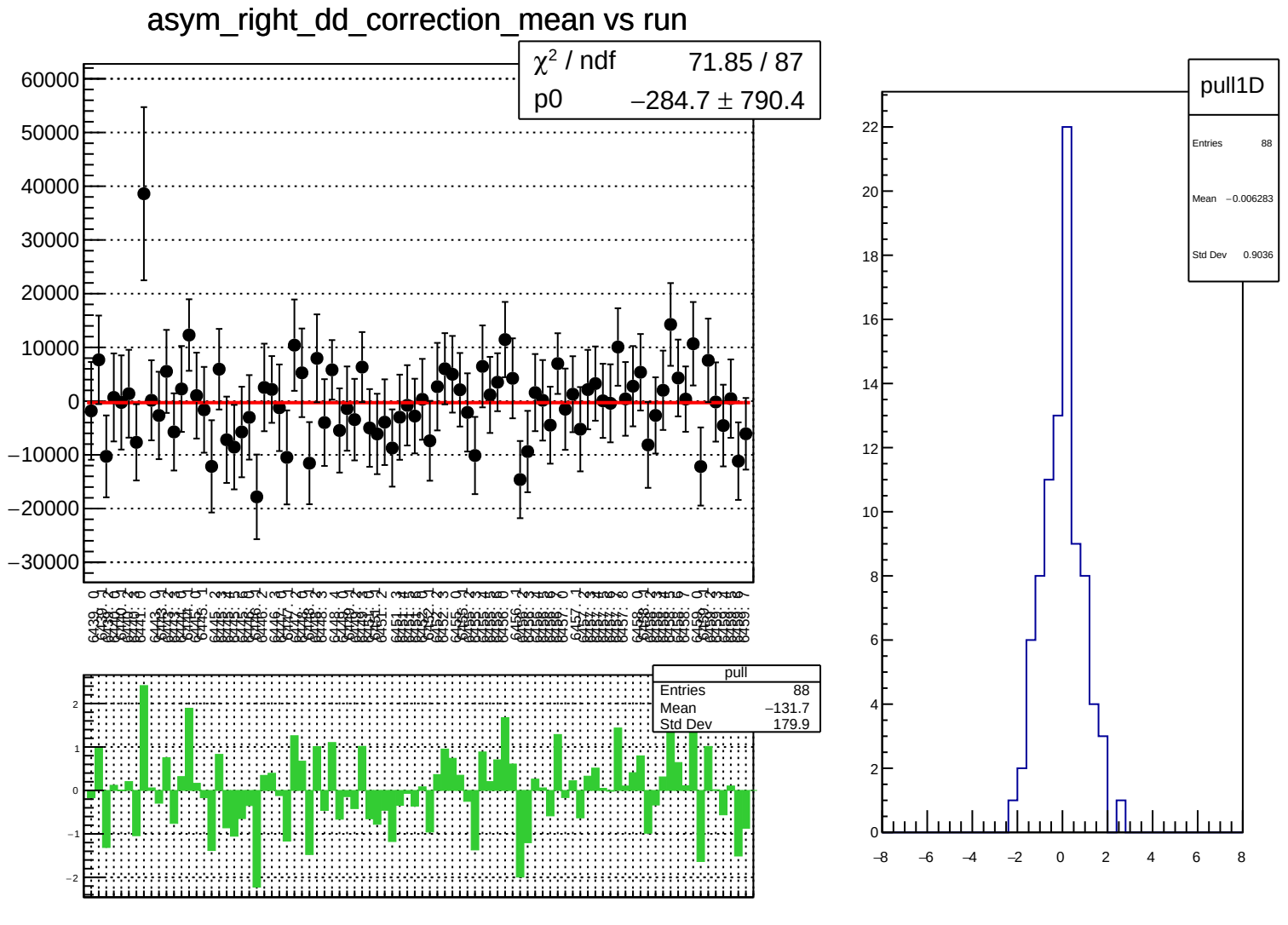

pull1D
Entries 88
Mean 0.002427
Std Dev 0.9411
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

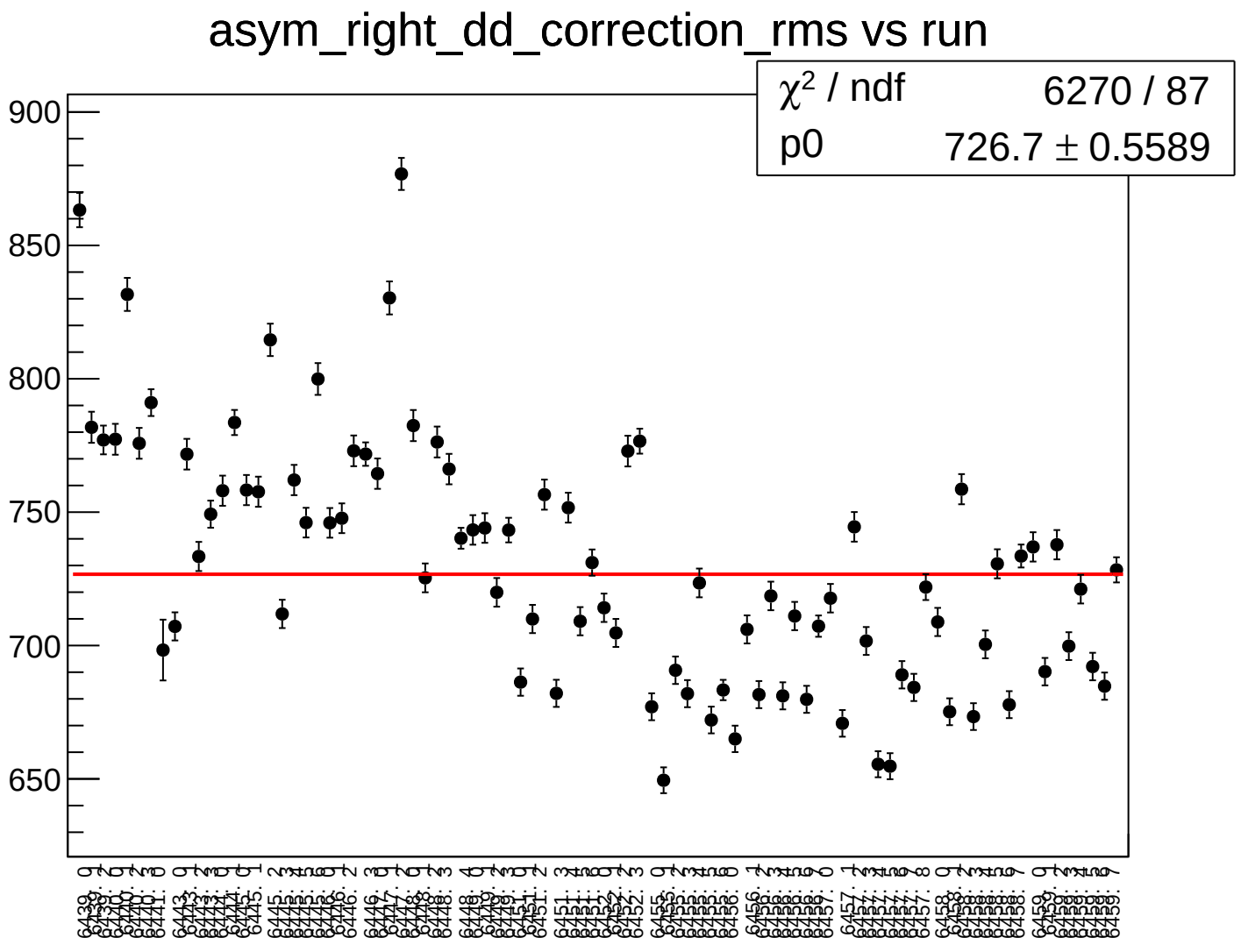

asym_right_avg_rms vs run
χ^2 / ndf 2381 / 87
p0 932 ± 0.716
1050
1000
950
900
850

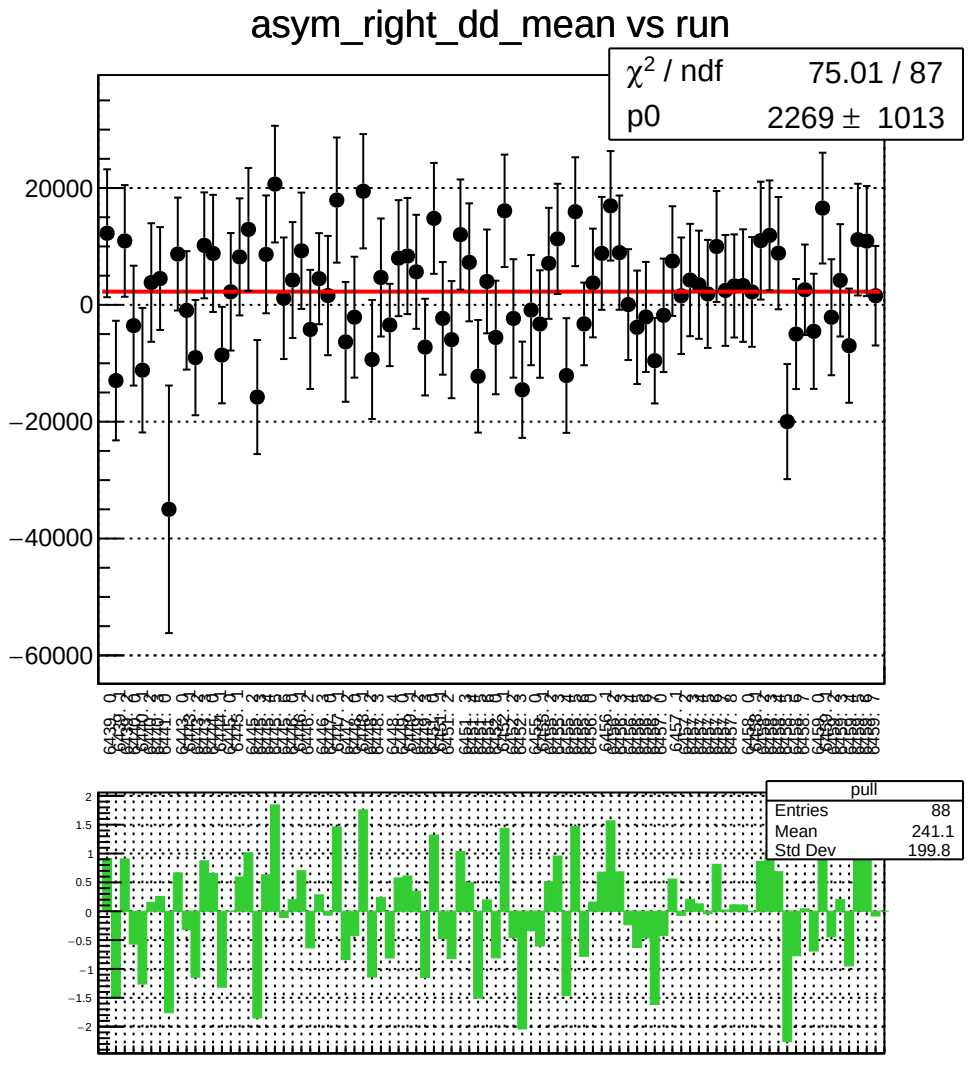

reg_asym_right_dd_mean vs run
χ² / ndf 98.72 / 87
p0 1858 ± 630.8
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 332.8
Std Dev 287.5
2
1
0
−1
−2

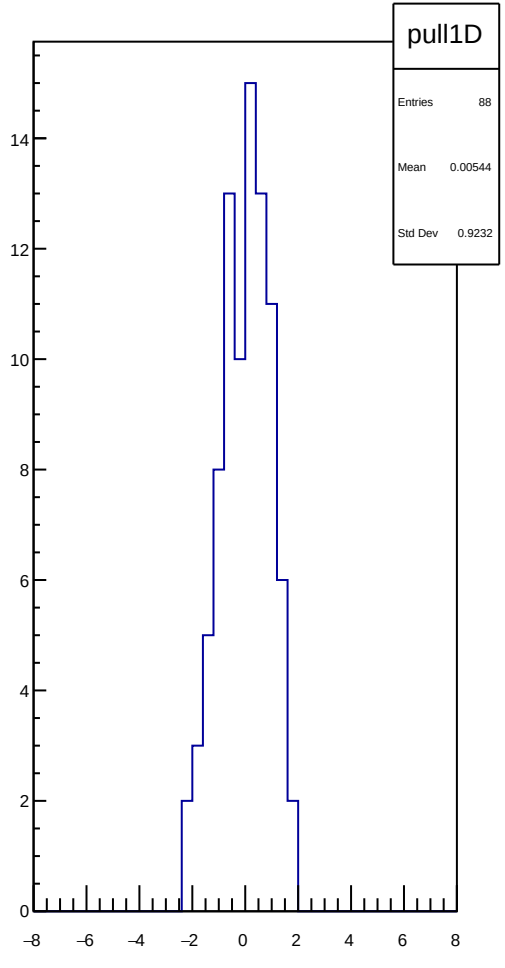

pull1D
Entries 88
Mean 0.01062
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

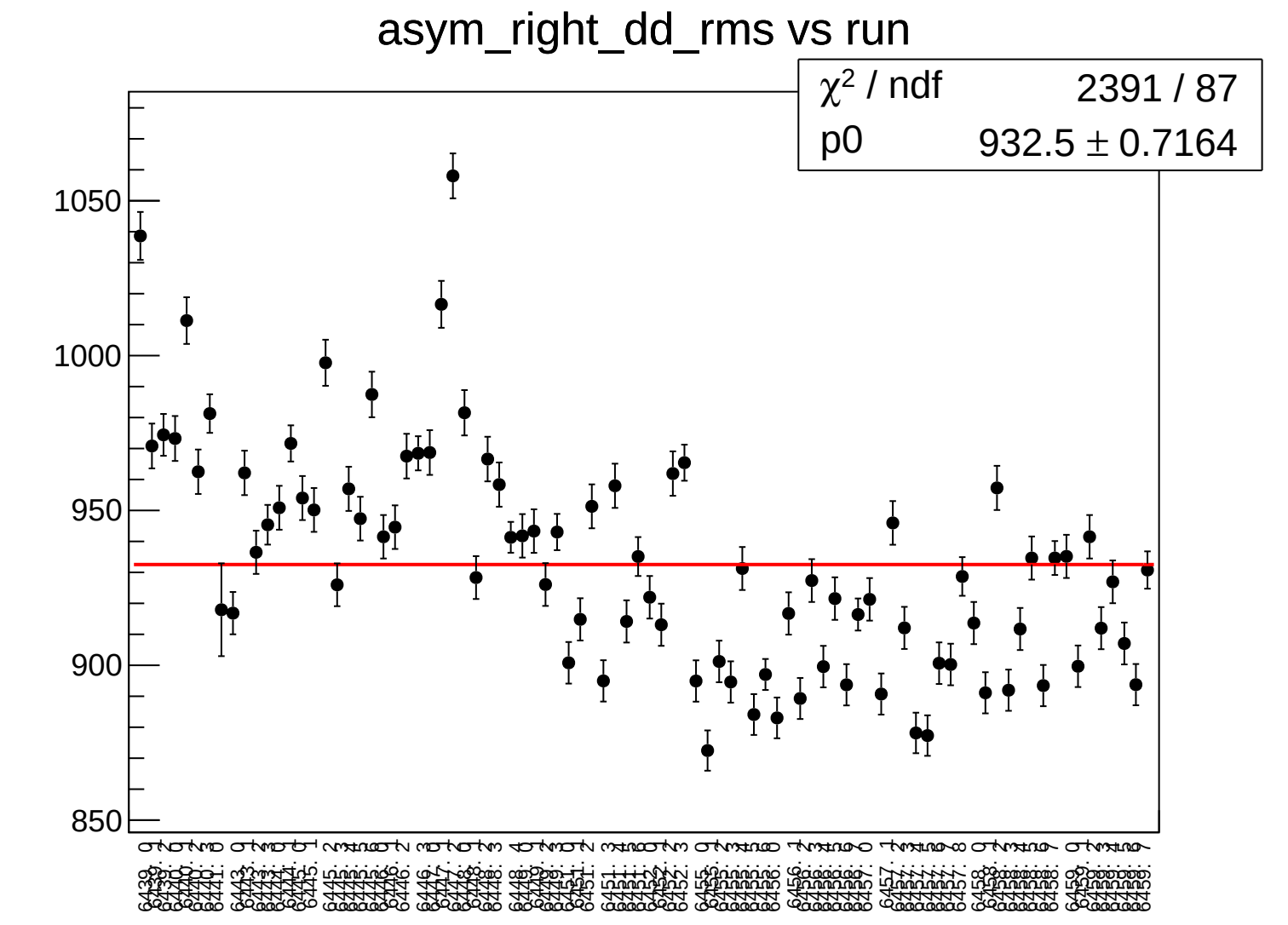

reg_asym_right_dd_rms vs run
χ^2 / ndf 128.1 / 87
p0 581 ± 0.446
605
600
595
590
585
580
575
570
565

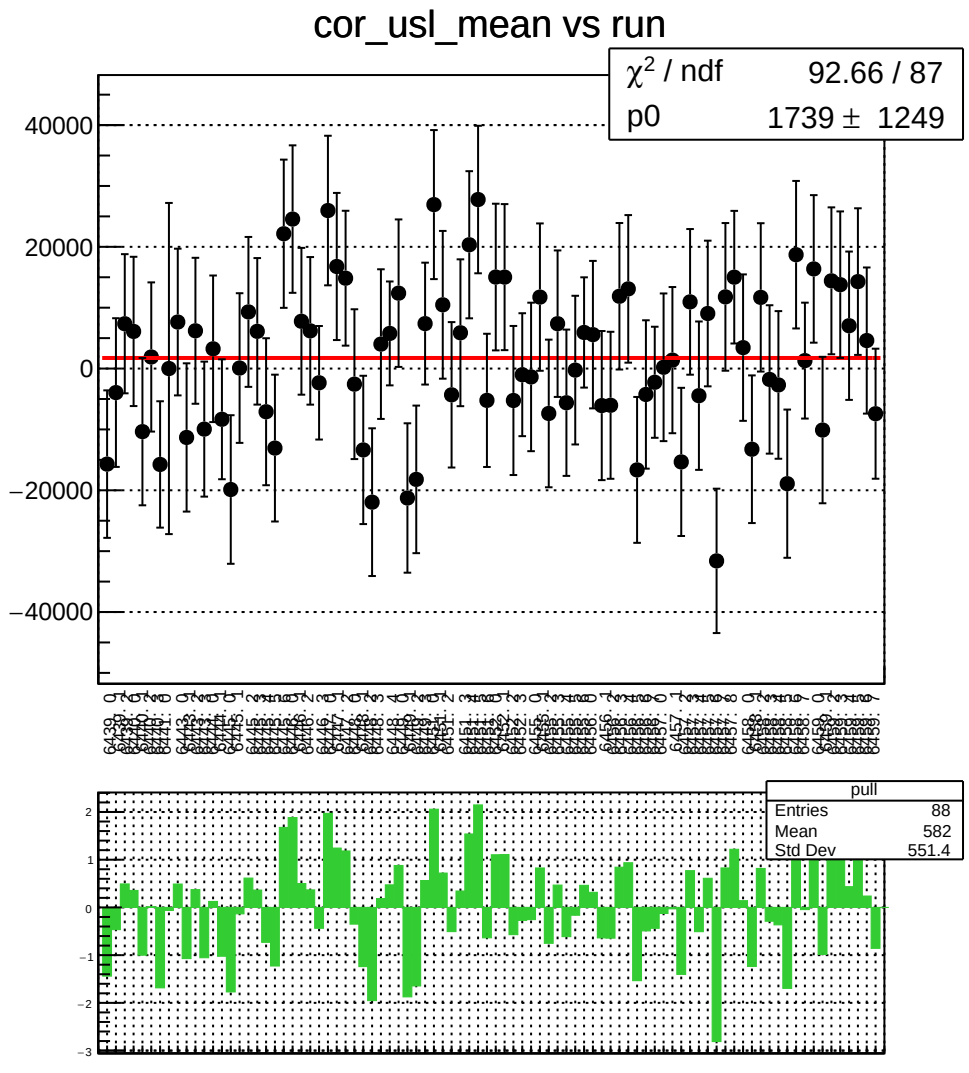

asym_right_dd_correction_mean vs run
χ² / ndf 71.85 / 87
p0 −284.7 ± 790.4
pull
Entries 88
Mean −131.7
Std Dev 179.9
pull1D
Entries 88
Mean −0.006283
Std Dev 0.9036

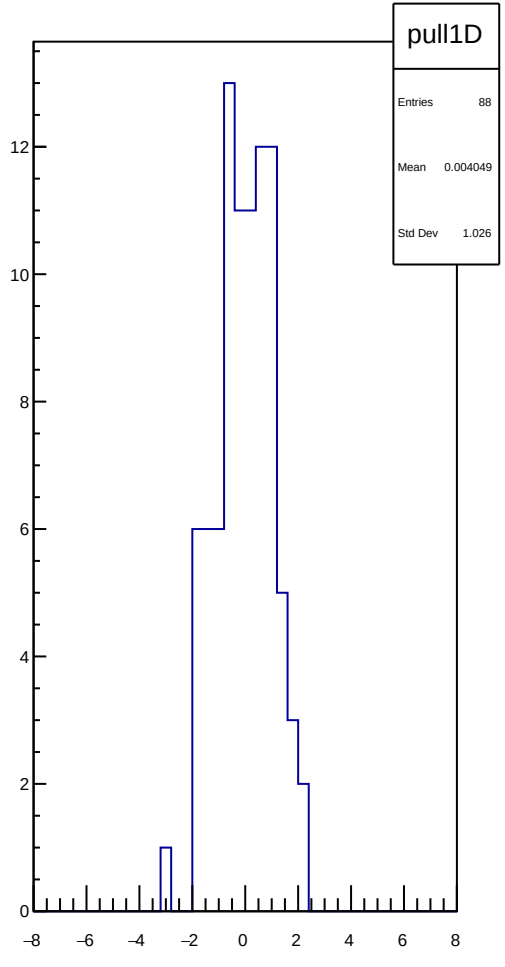

asym_right_dd_correction_rms vs run
χ² / ndf 6270 / 87
p0 726.7 ± 0.5589
900
850
800
750
700
650

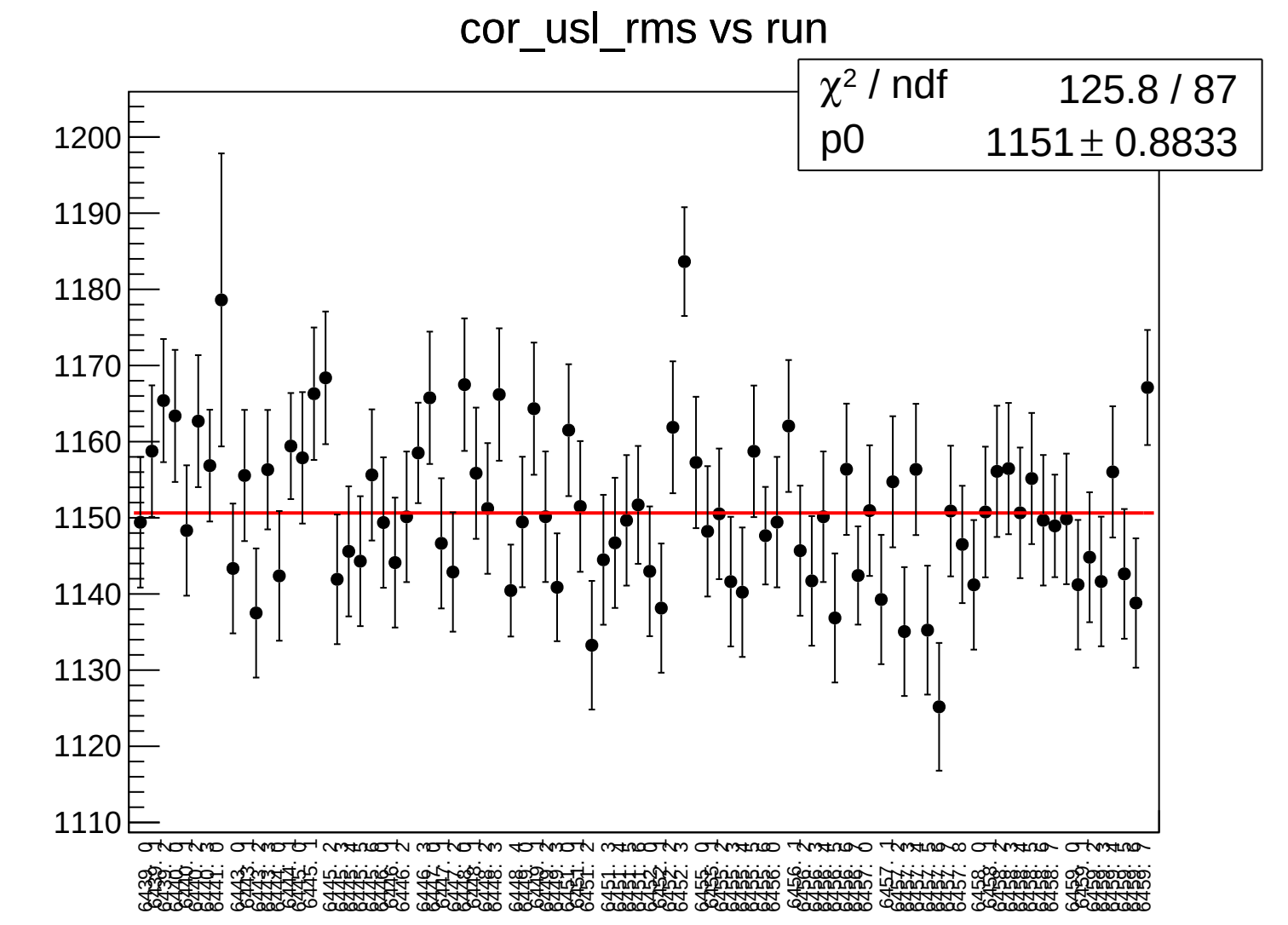

asym_right_dd_mean vs run
χ² / ndf 75.01 / 87
p0 2269 ± 1013
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 241.1
Std Dev 199.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

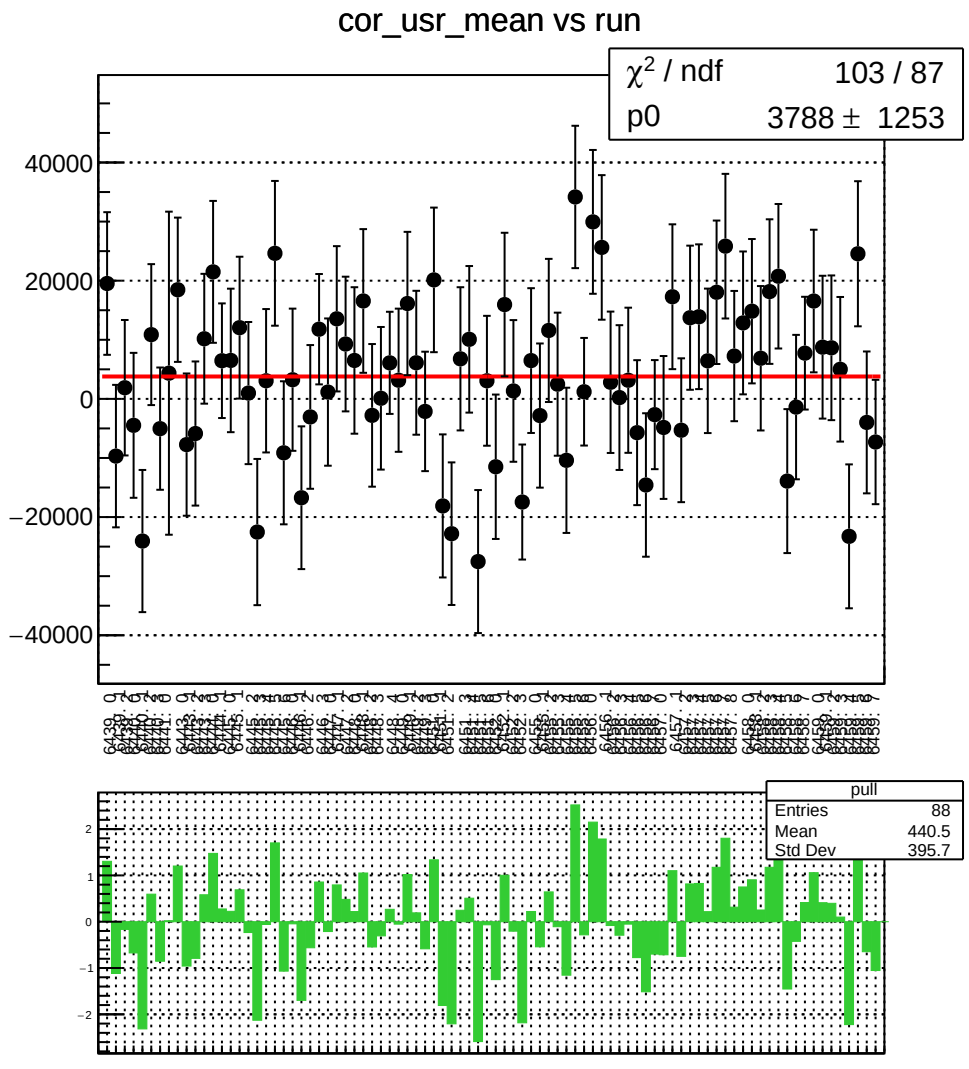

pull1D
Entries 88
Mean 0.00544
Std Dev 0.9232
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

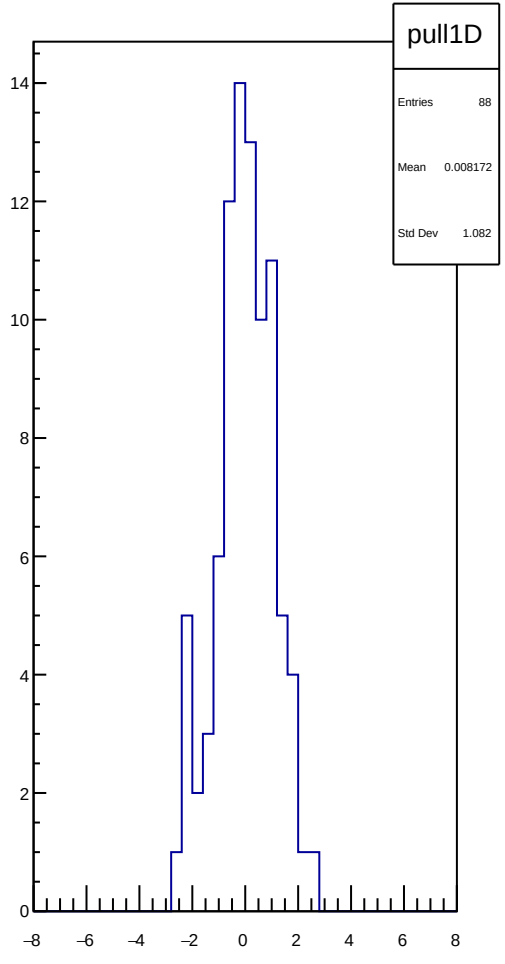

asym_right_dd_rms vs run
χ^2 / ndf 2391 / 87
p0 932.5 ± 0.7164
1050
1000
950
900
850

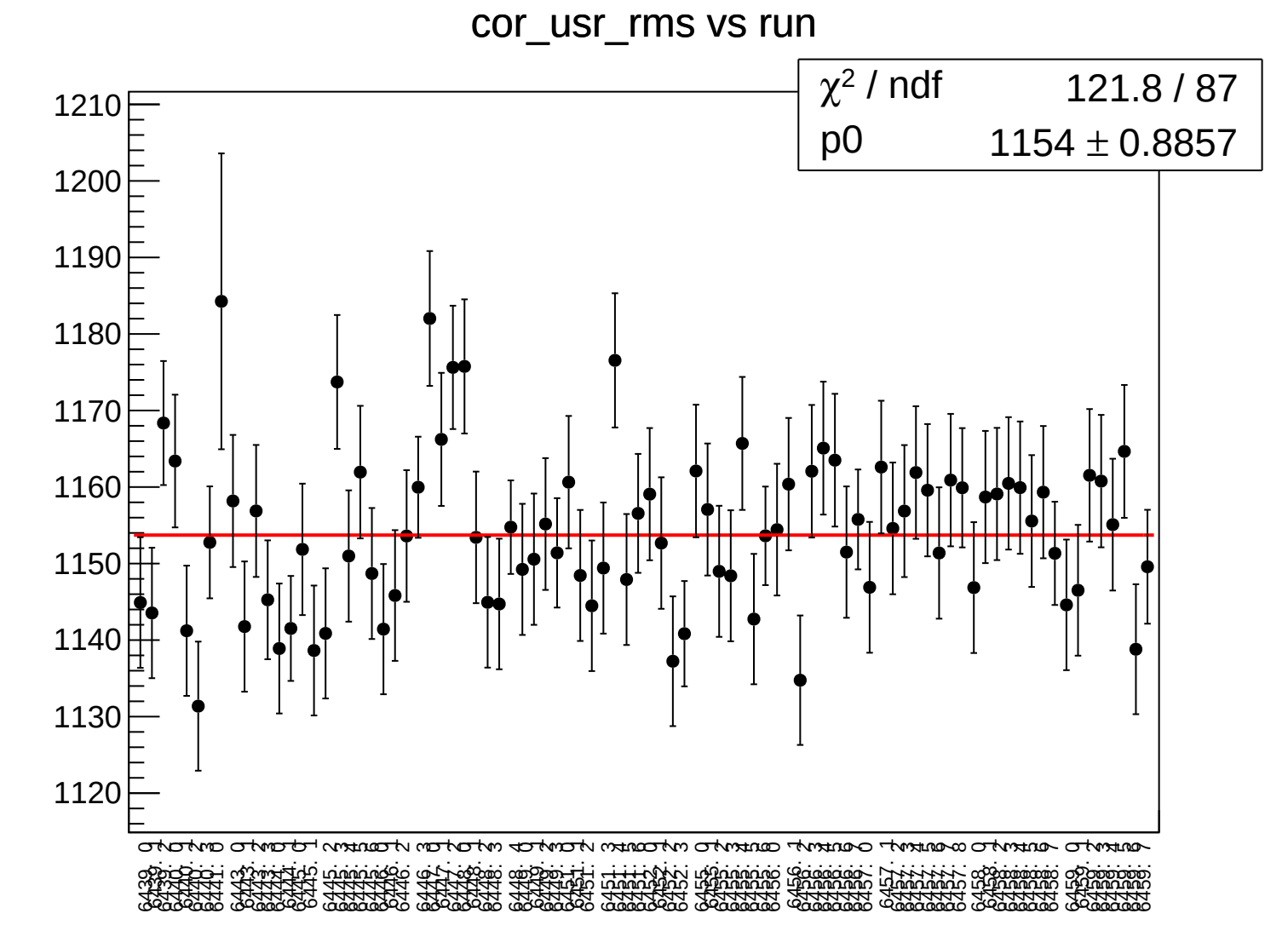

cor_usl_mean vs run
χ² / ndf 92.66 / 87
p0 1739 ± 1249
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 582
Std Dev 551.4
2
1
0
−1
−2
−3

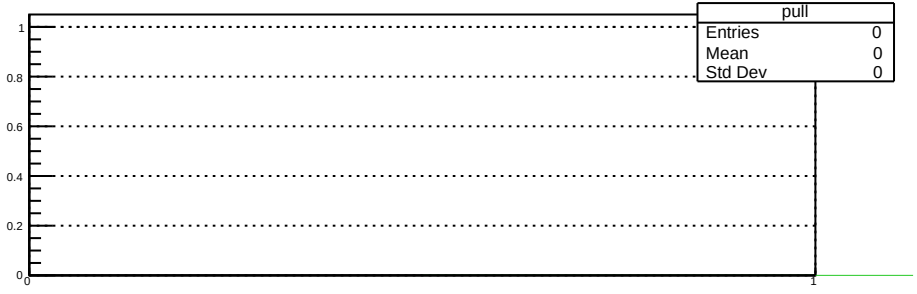

pull1D
Entries 88
Mean 0.004049
Std Dev 1.026
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

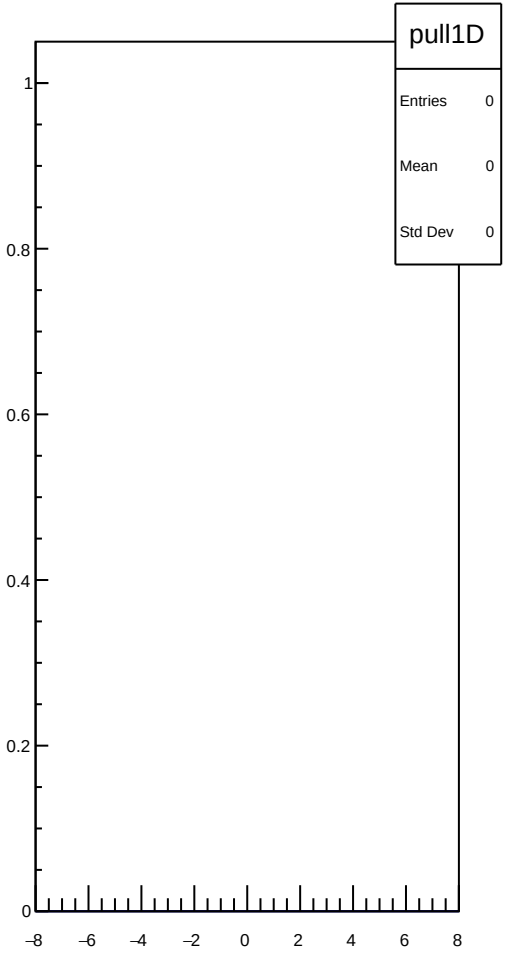

cor_usl_rms vs run
χ² / ndf 125.8 / 87
p0 1151 ± 0.8833
1200
1190
1180
1170
1160
1150
1140
1130
1120
1110

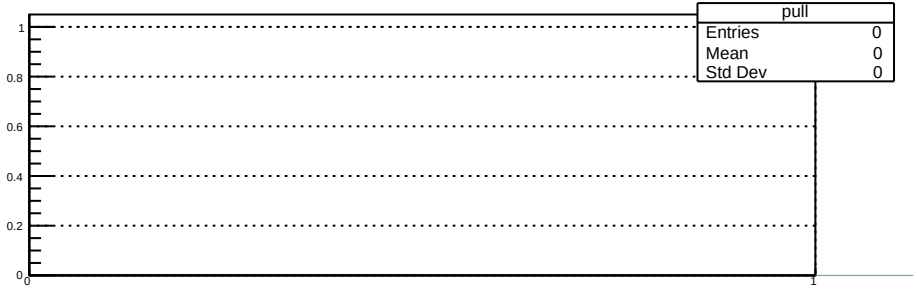

cor_usr_mean vs run
χ² / ndf 103 / 87
p0 3788 ± 1253
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 440.5
Std Dev 395.7
2
1
0
−1
−2

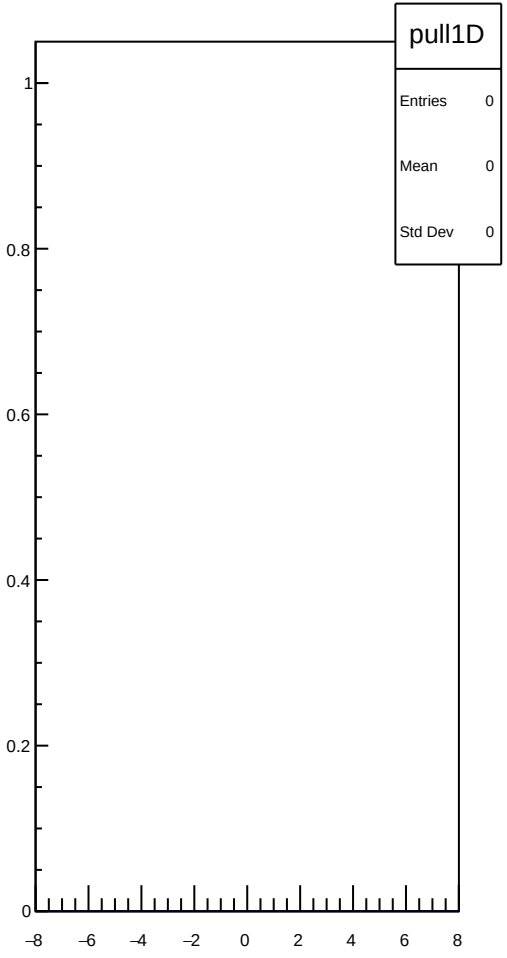

pull1D
Entries 88
Mean 0.008172
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

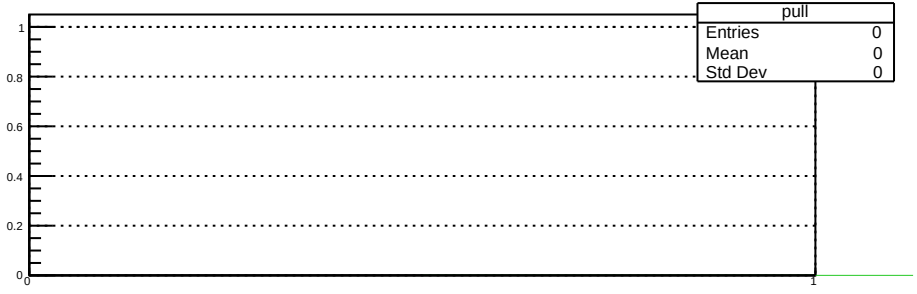

cor_usr_rms vs run
χ² / ndf 121.8 / 87
p0 1154 ± 0.8857
1210
1200
1190
1180
1170
1160
1150
1140
1130
1120

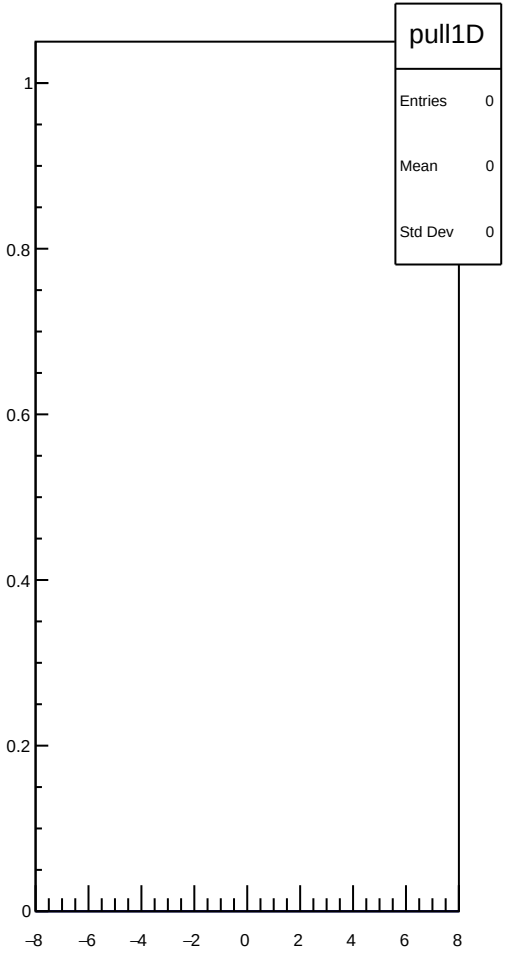

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

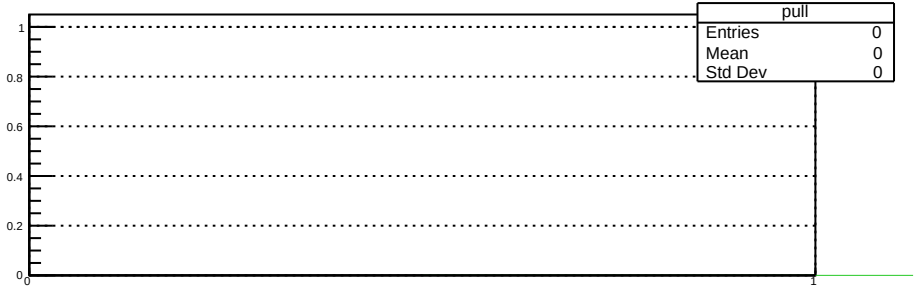

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

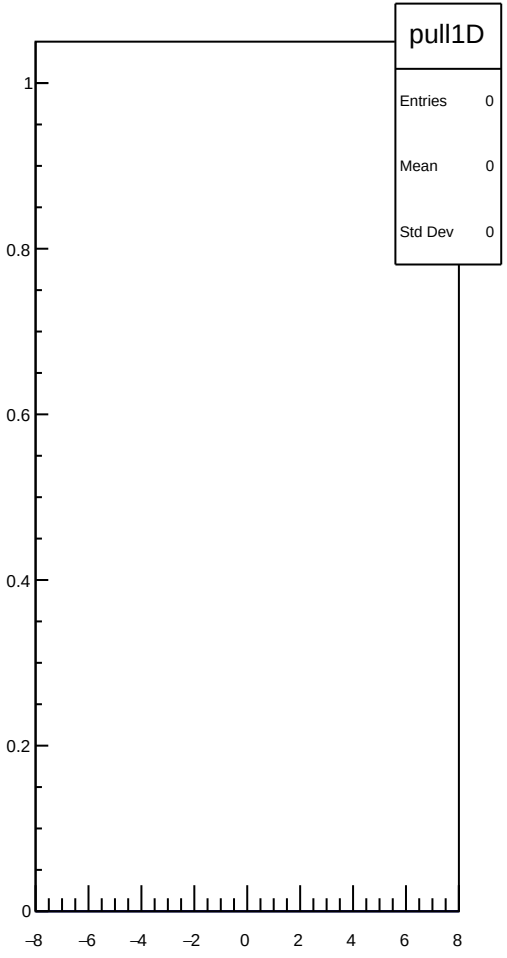

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

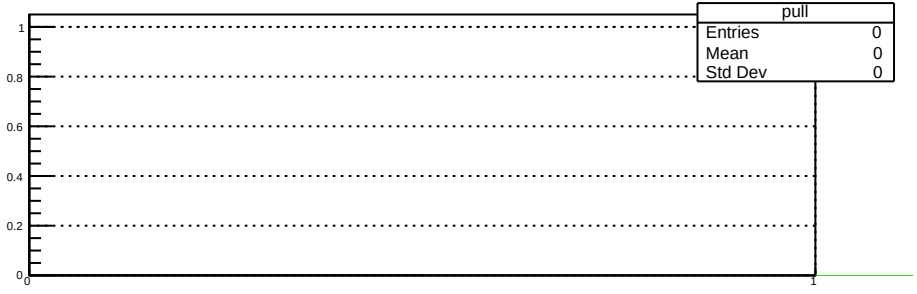

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

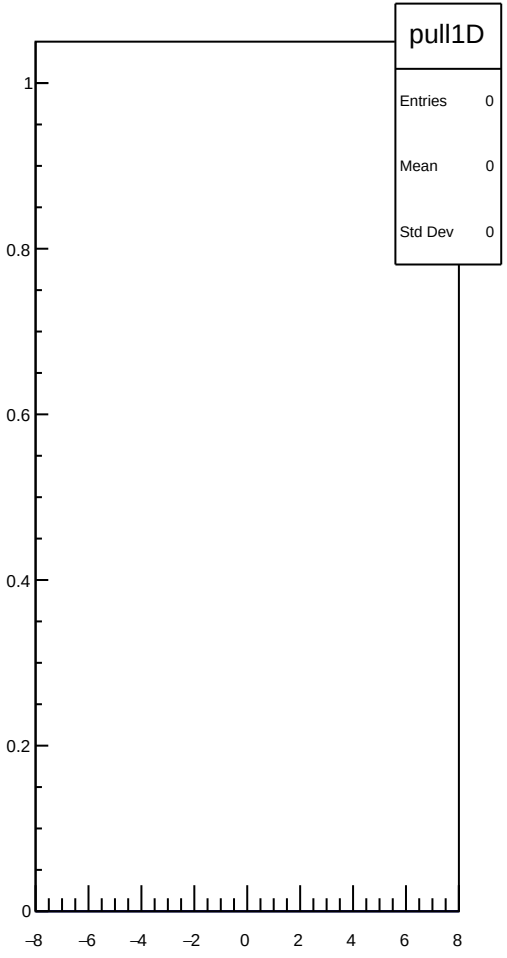

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

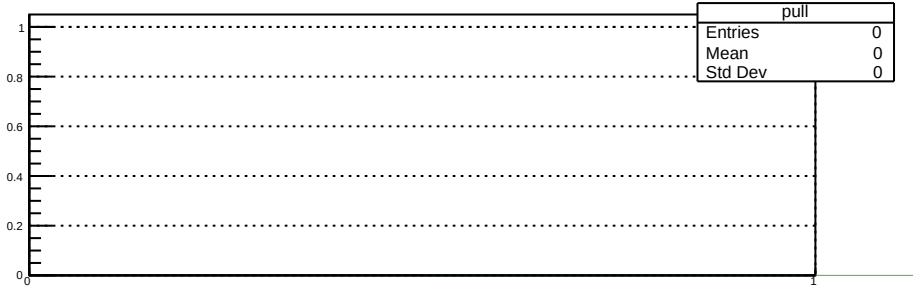

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

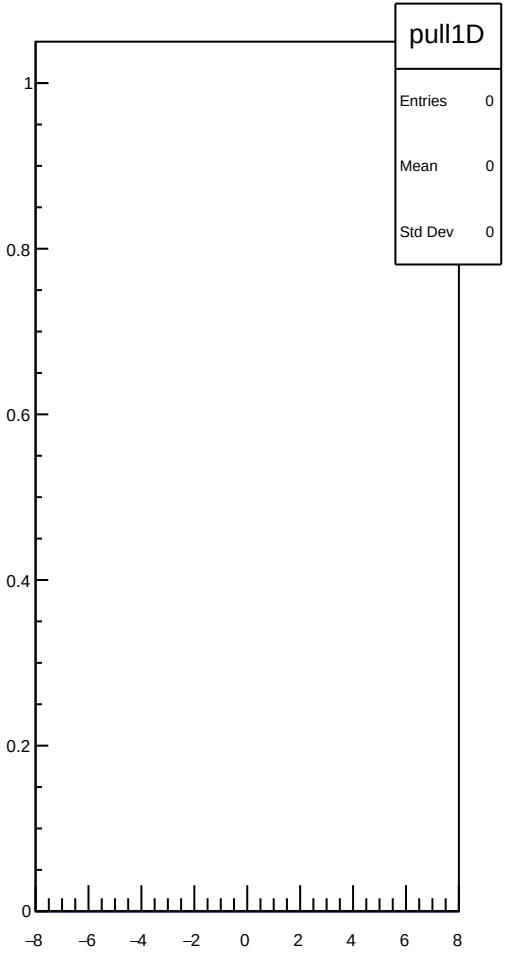

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

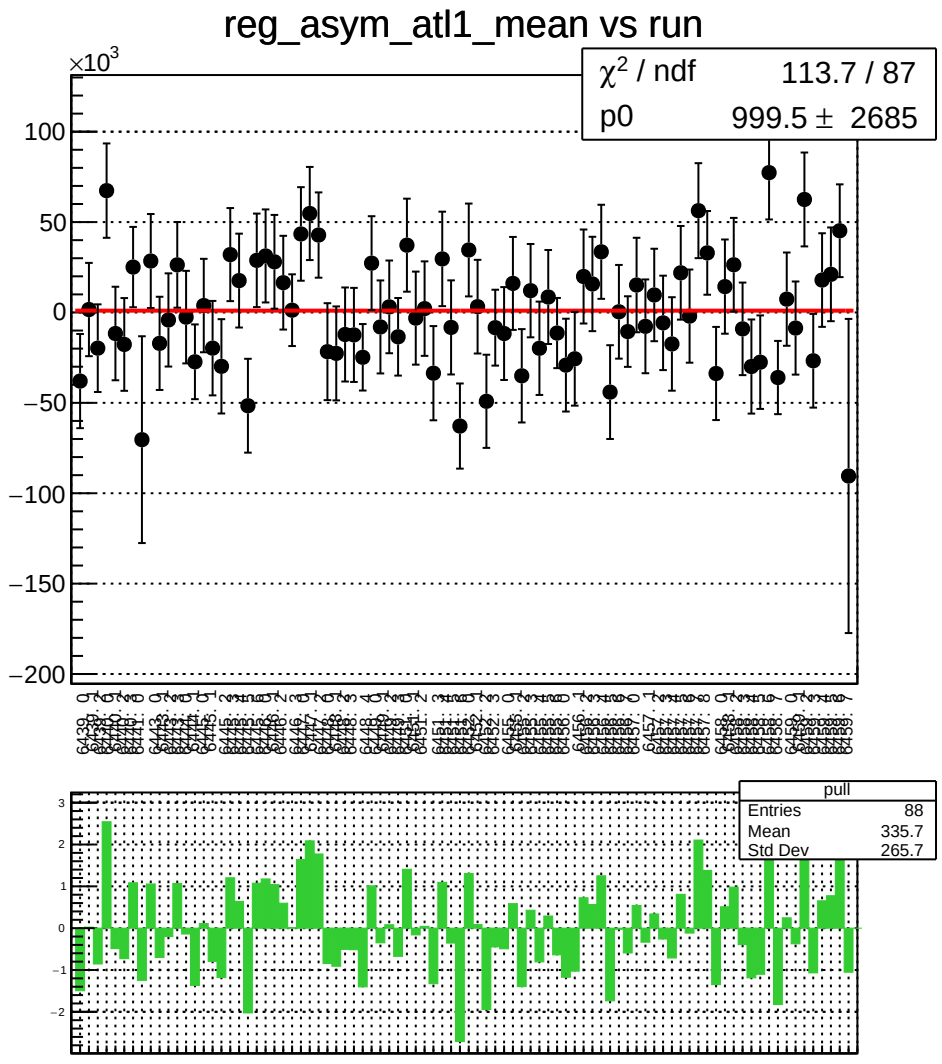

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

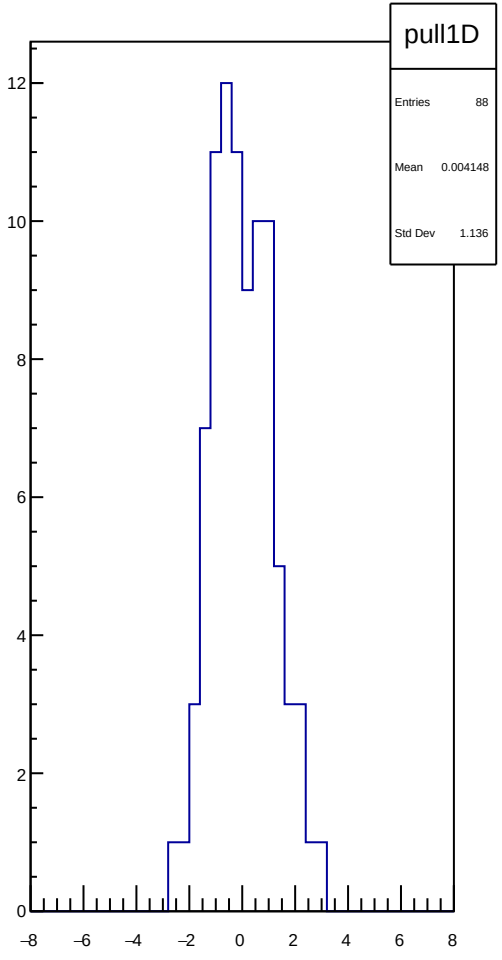

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

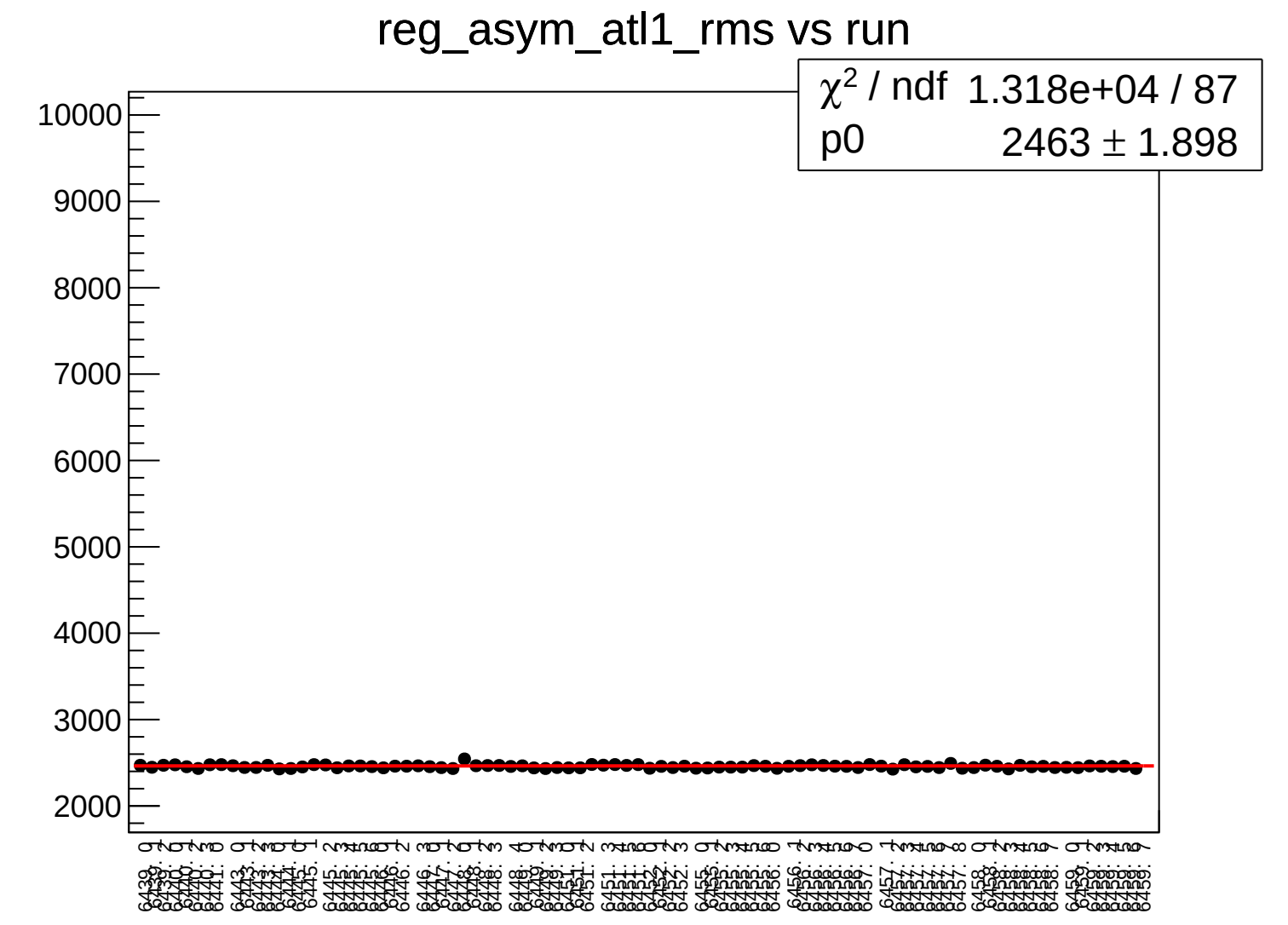

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

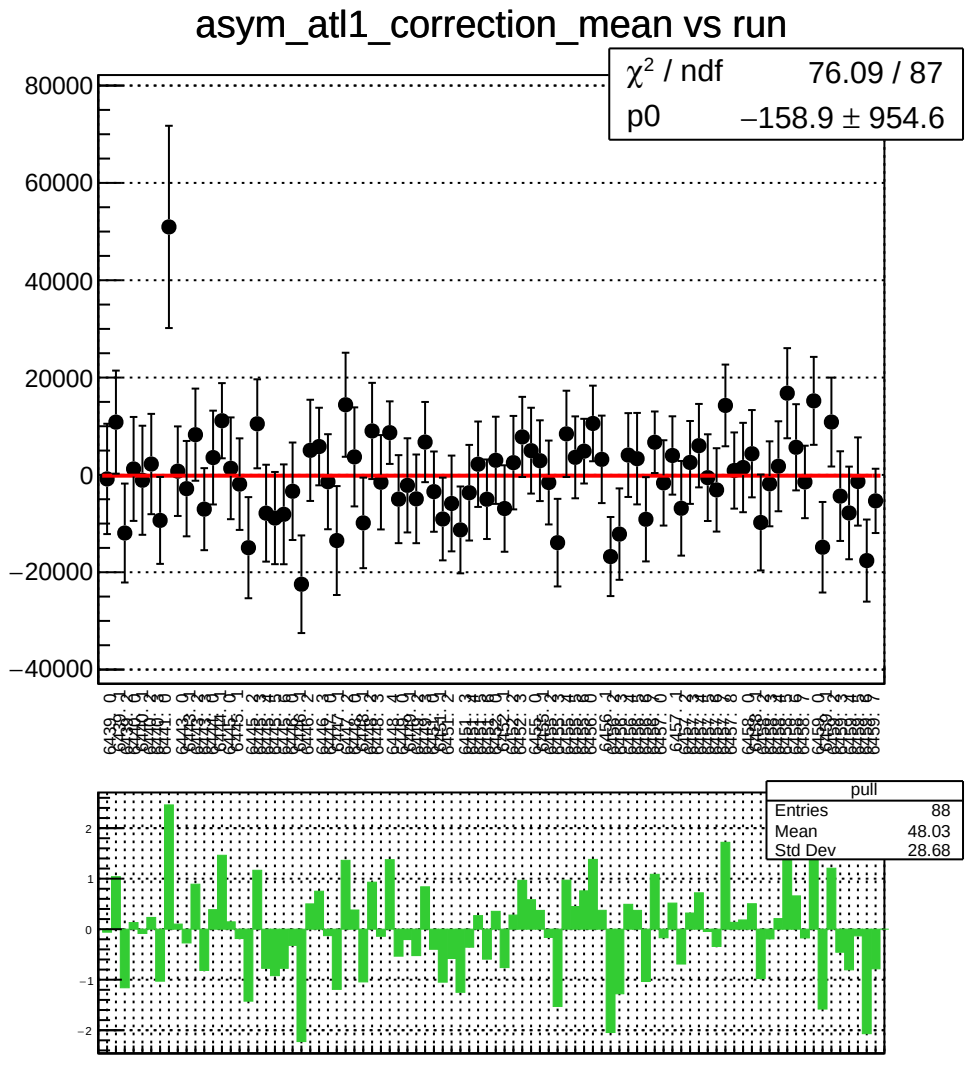

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

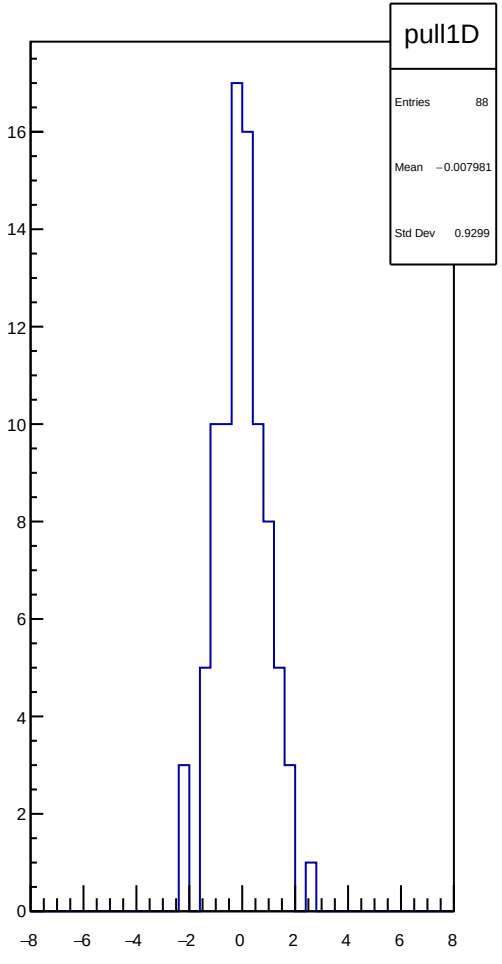

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

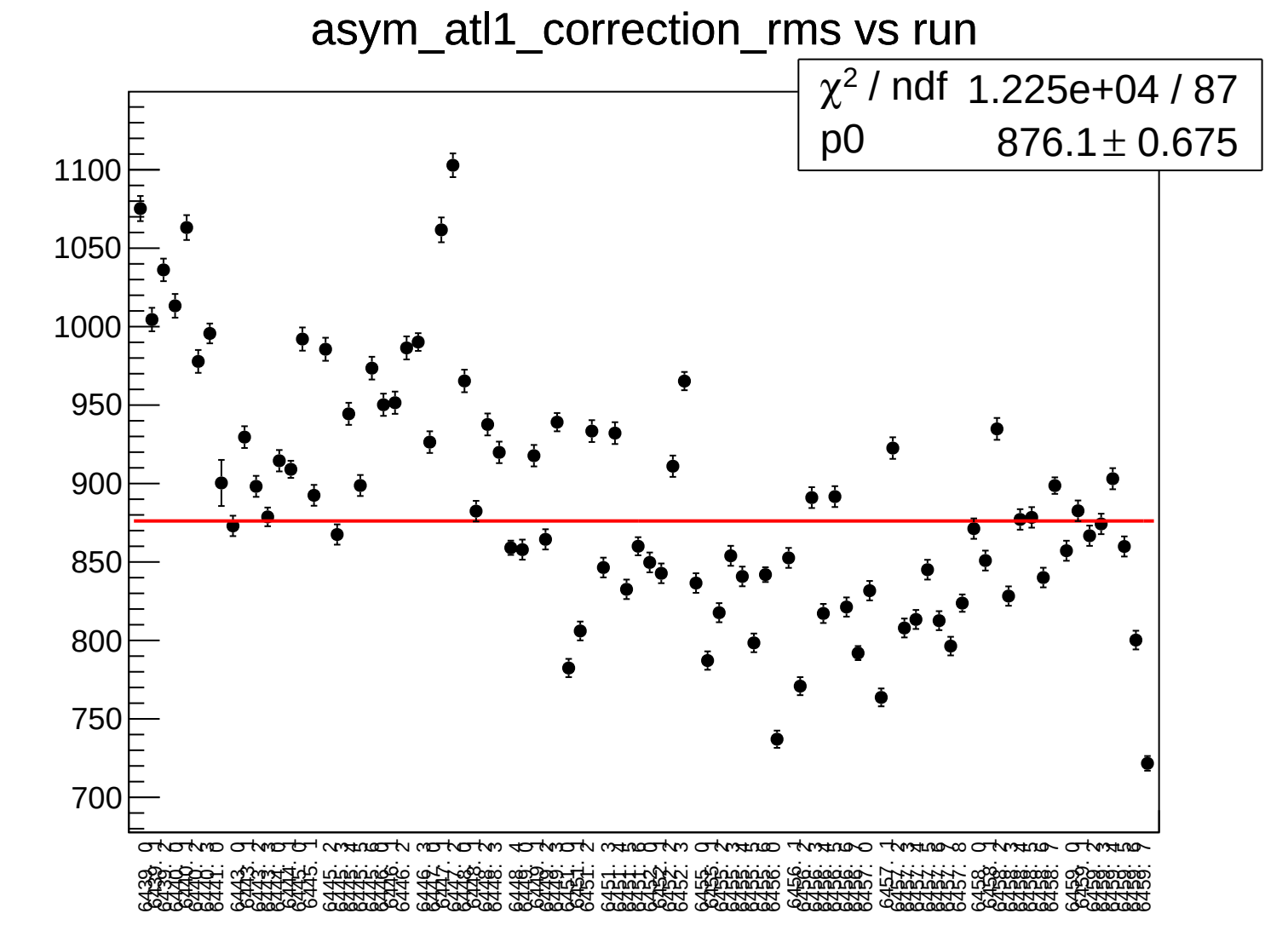

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 113.7 / 87
p0 999.5 ± 2685
pull
Entries 88
Mean 335.7
Std Dev 265.7

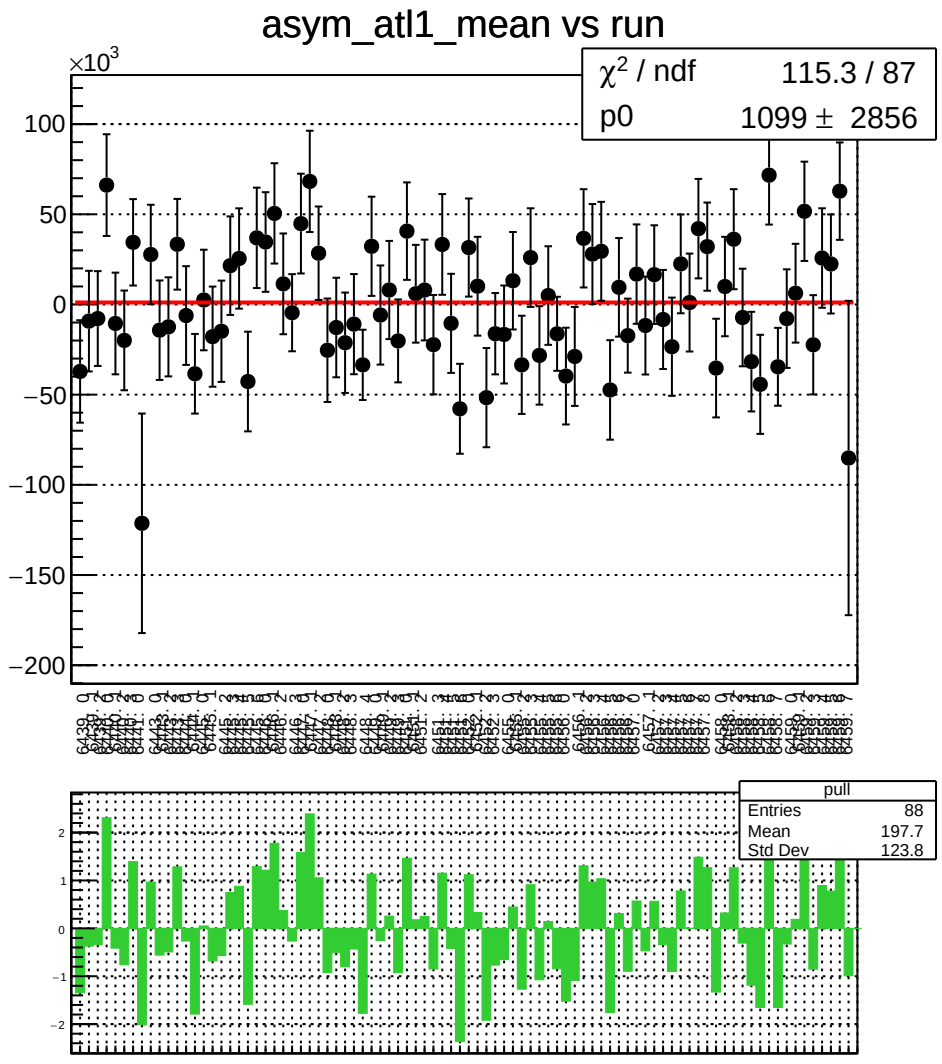

pull1D
Entries 88
Mean 0.004148
Std Dev 1.136

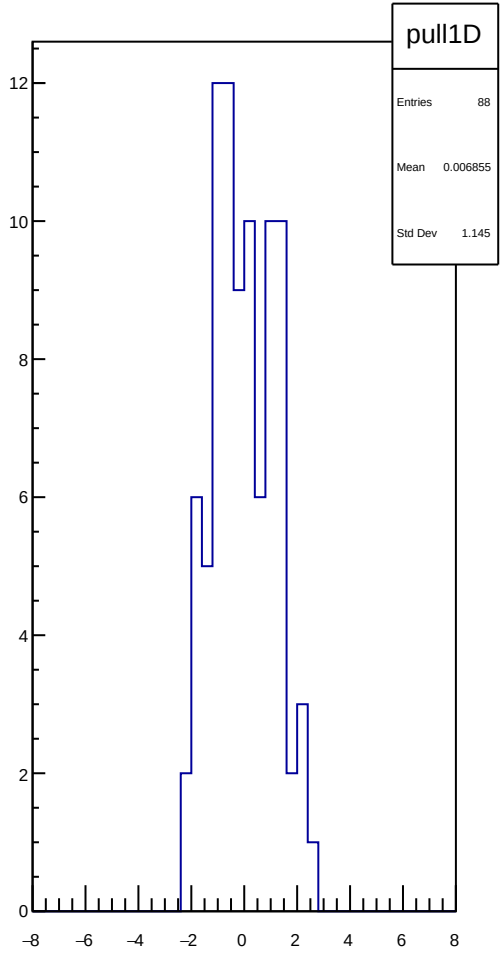

reg_asym_atl1_rms vs run
χ^2 / ndf 1.318e+04 / 87
p0 2463 ± 1.898
10000
9000
8000
7000
6000
5000
4000
3000
2000

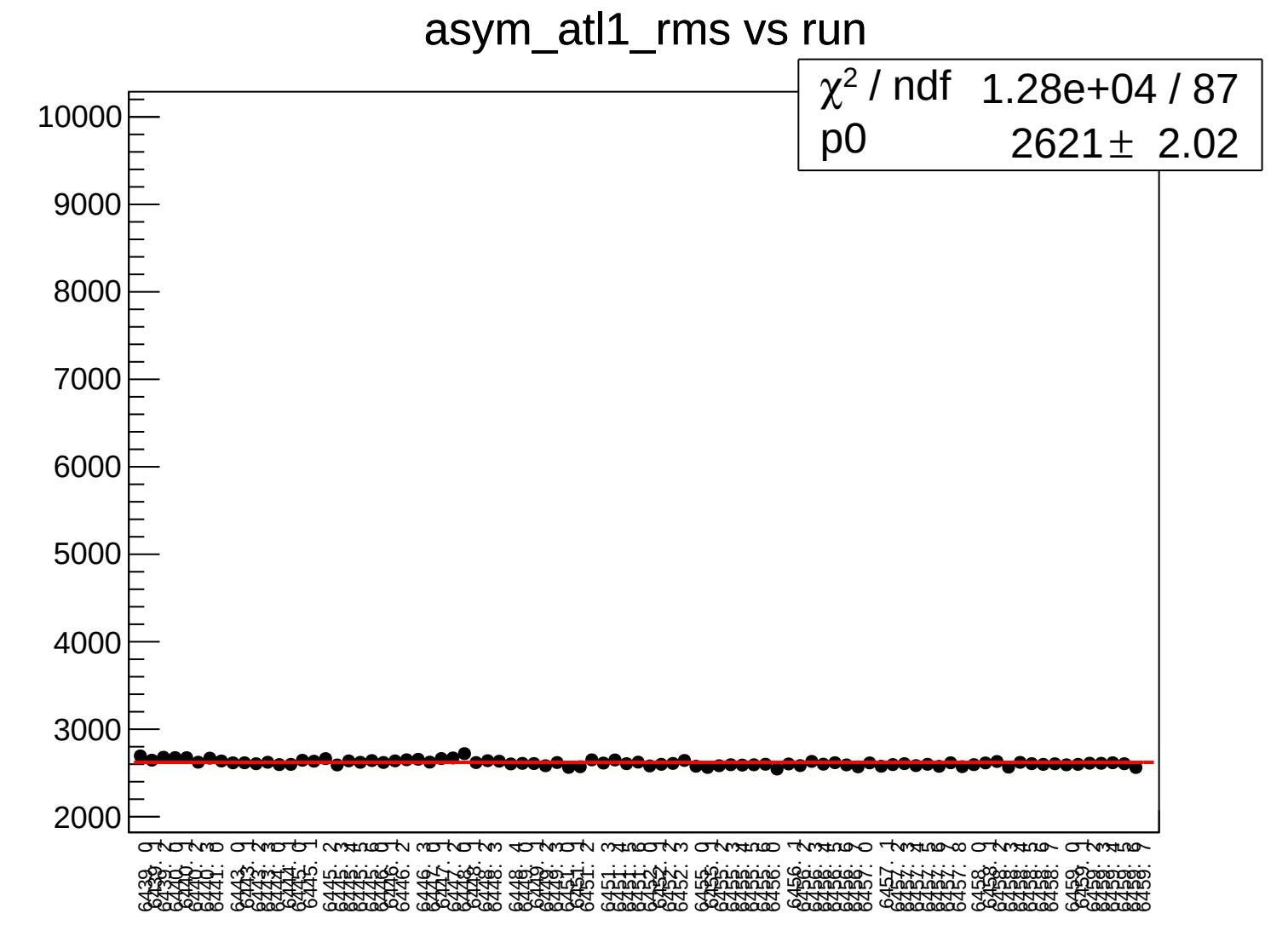

asym_atl1_correction_mean vs run
χ² / ndf 76.09 / 87
p0 −158.9 ± 954.6
pull
Entries 88
Mean 48.03
Std Dev 28.68

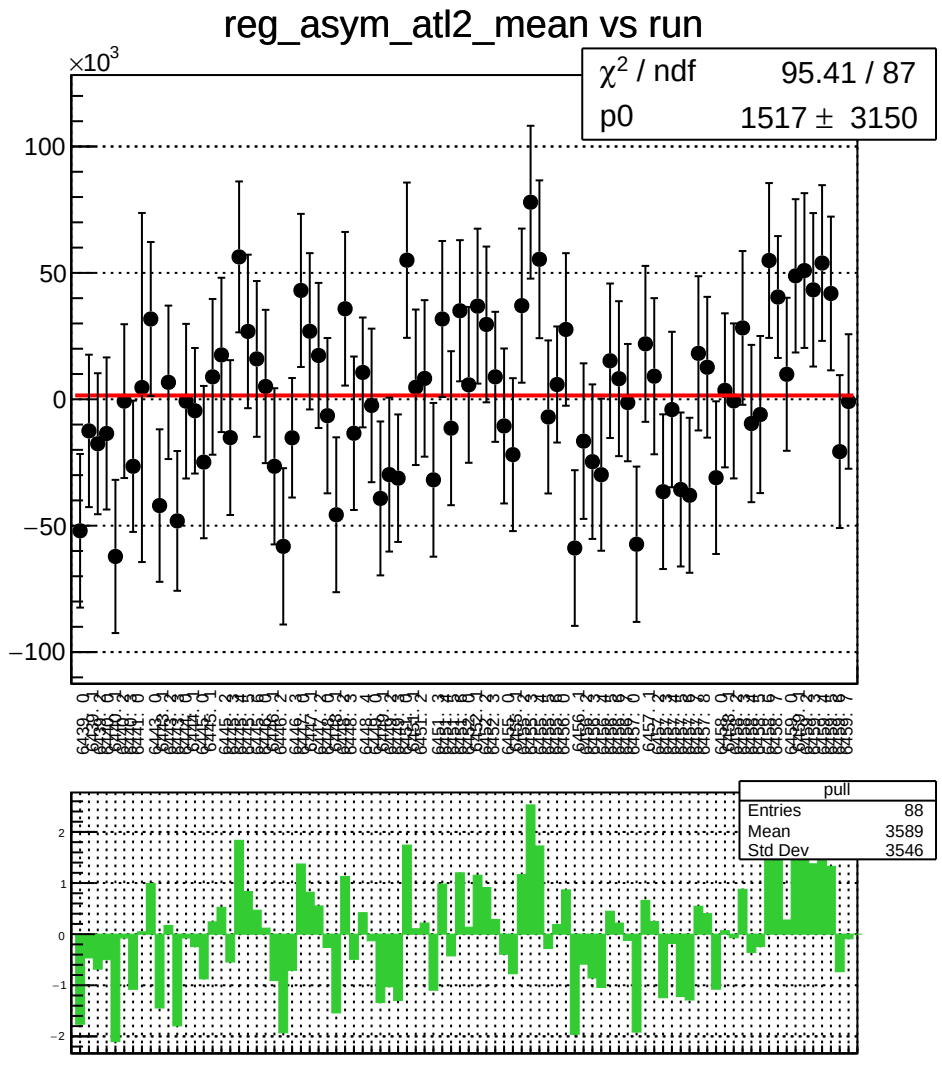

pull1D
Entries 88
Mean −0.007981
Std Dev 0.9299

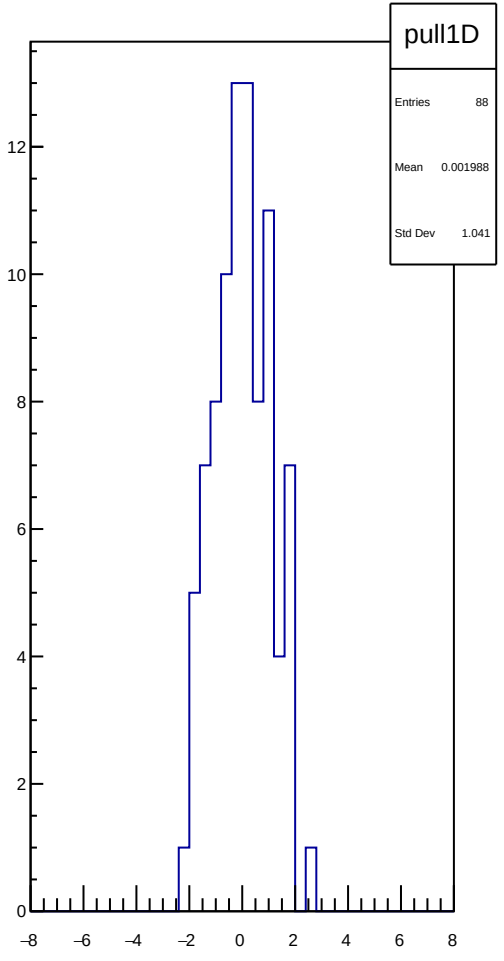

asym_atl1_correction_rms vs run
χ² / ndf 1.225e+04 / 87
p0 876.1 ± 0.675
1100
1050
1000
950
900
850
800
750
700

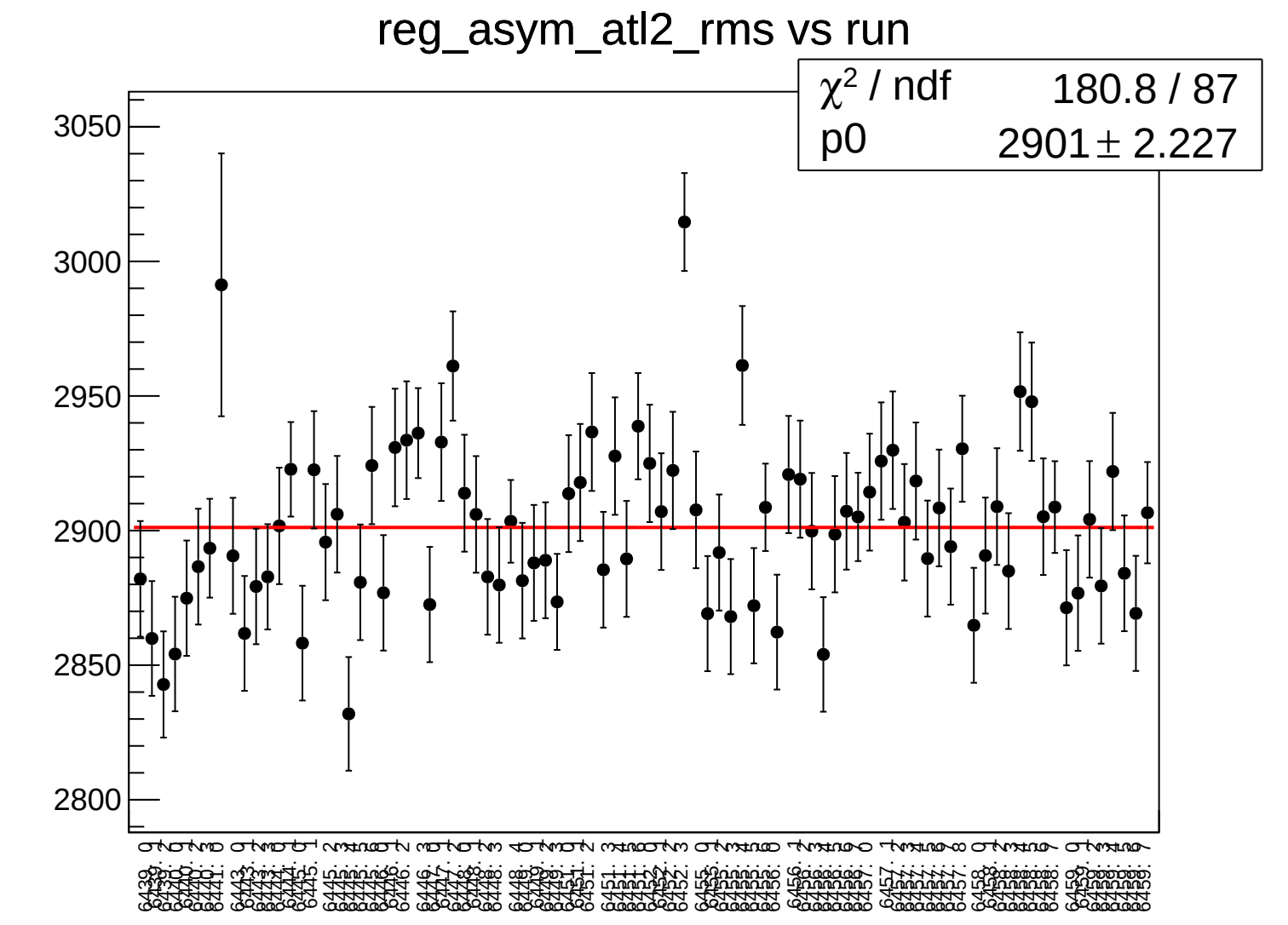

asym_atl1_mean vs run
×10^3
χ² / ndf 115.3 / 87
p0 1099 ± 2856
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 197.7
Std Dev 123.8
2
1
0
−1
−2

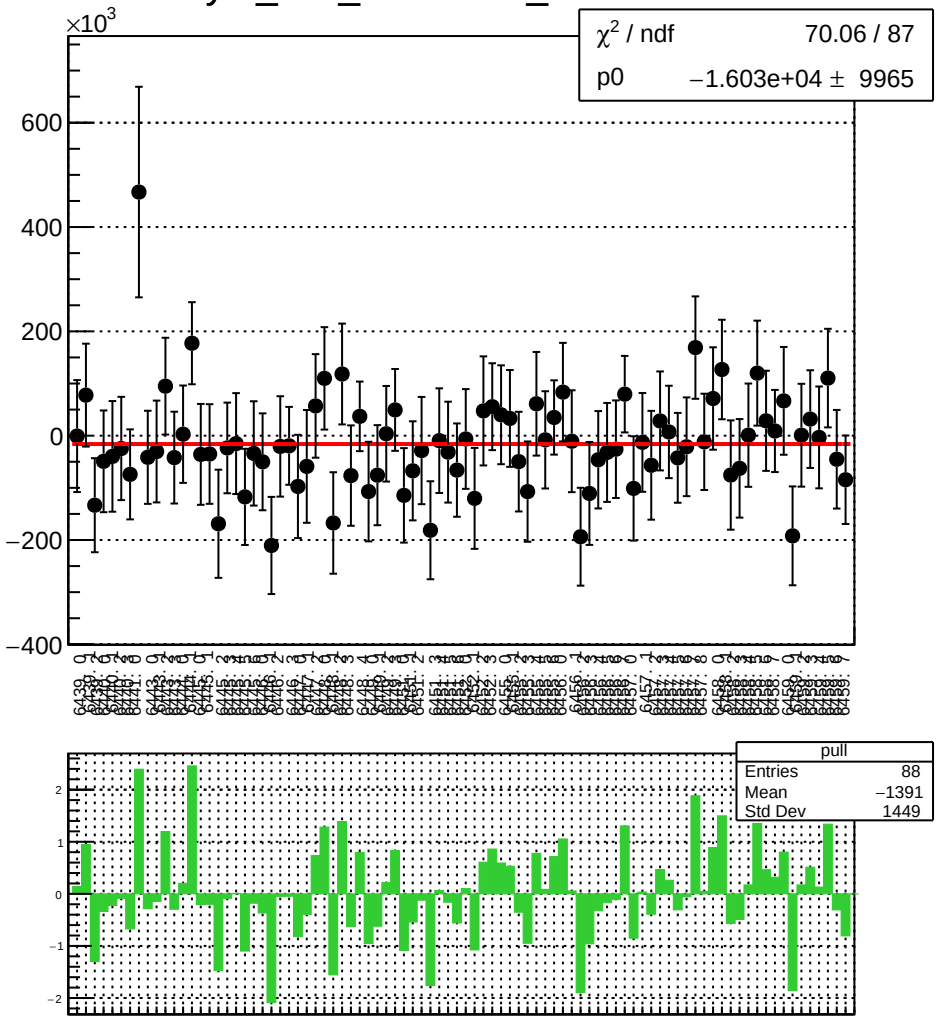

pull1D
Entries 88
Mean 0.006855
Std Dev 1.145
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

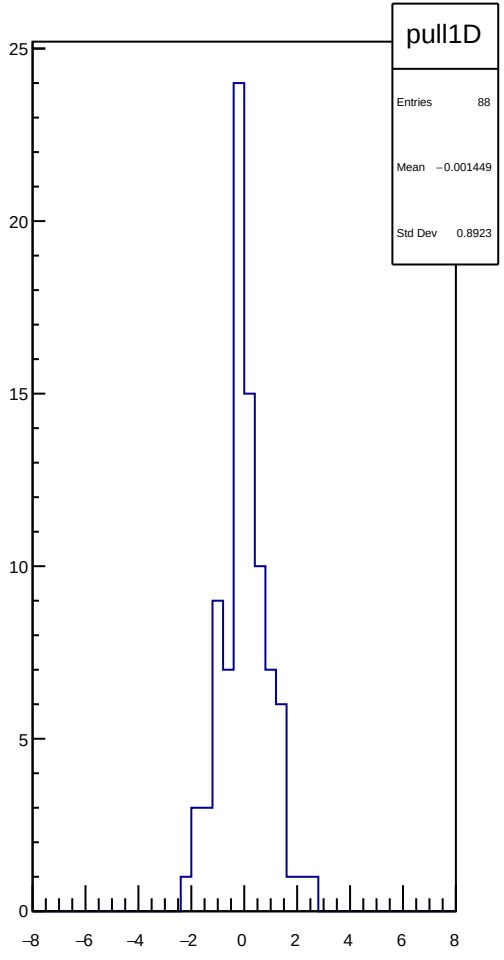

asym_atl1_rms vs run
χ² / ndf 1.28e+04 / 87
p0 2621 ± 2.02
10000
9000
8000
7000
6000
5000
4000
3000
2000

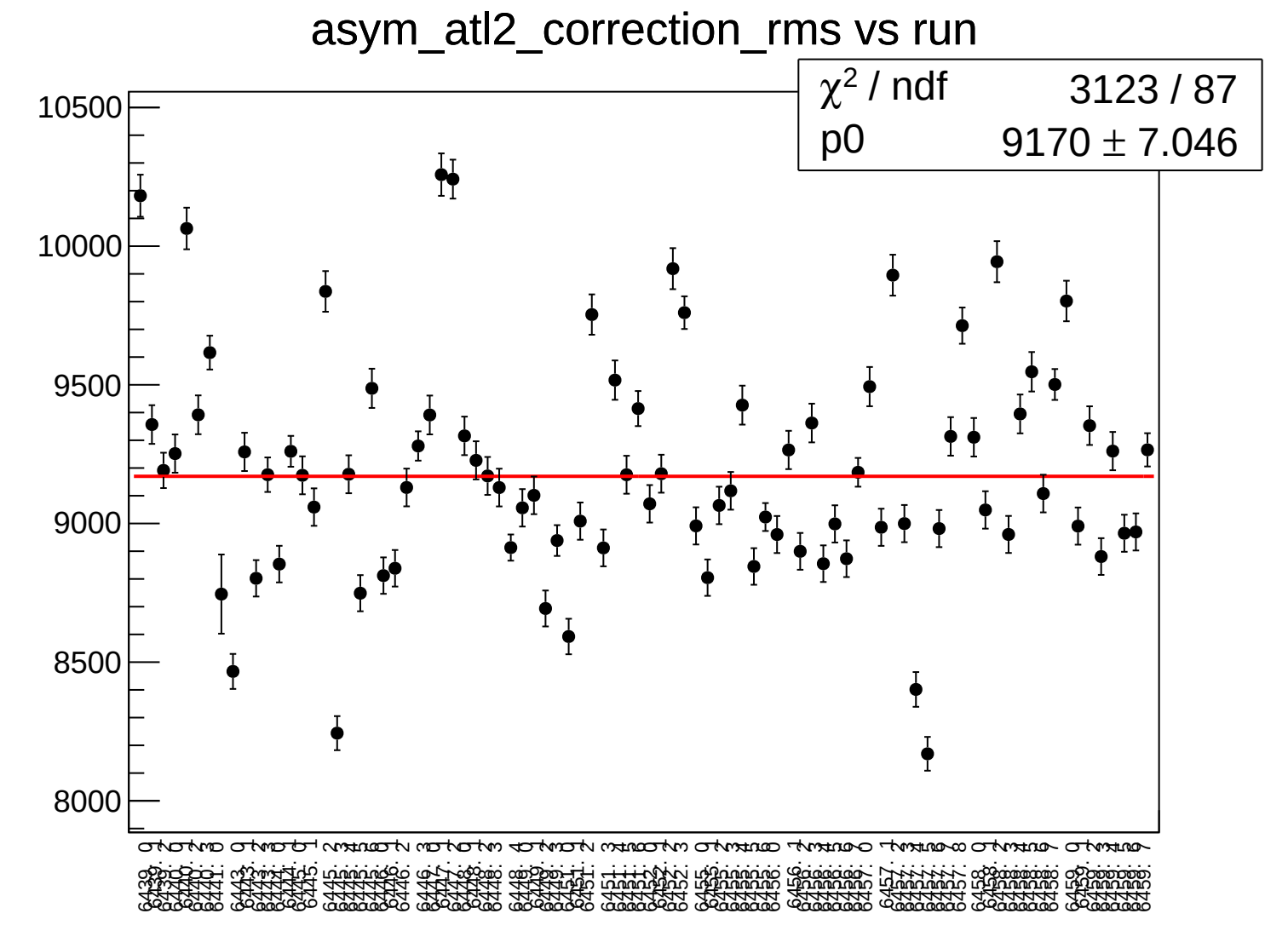

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 95.41 / 87
p0 1517 ± 3150
100
50
0
−50
−100
pull
Entries 88
Mean 3589
Std Dev 3546
2
1
0
−1
−2

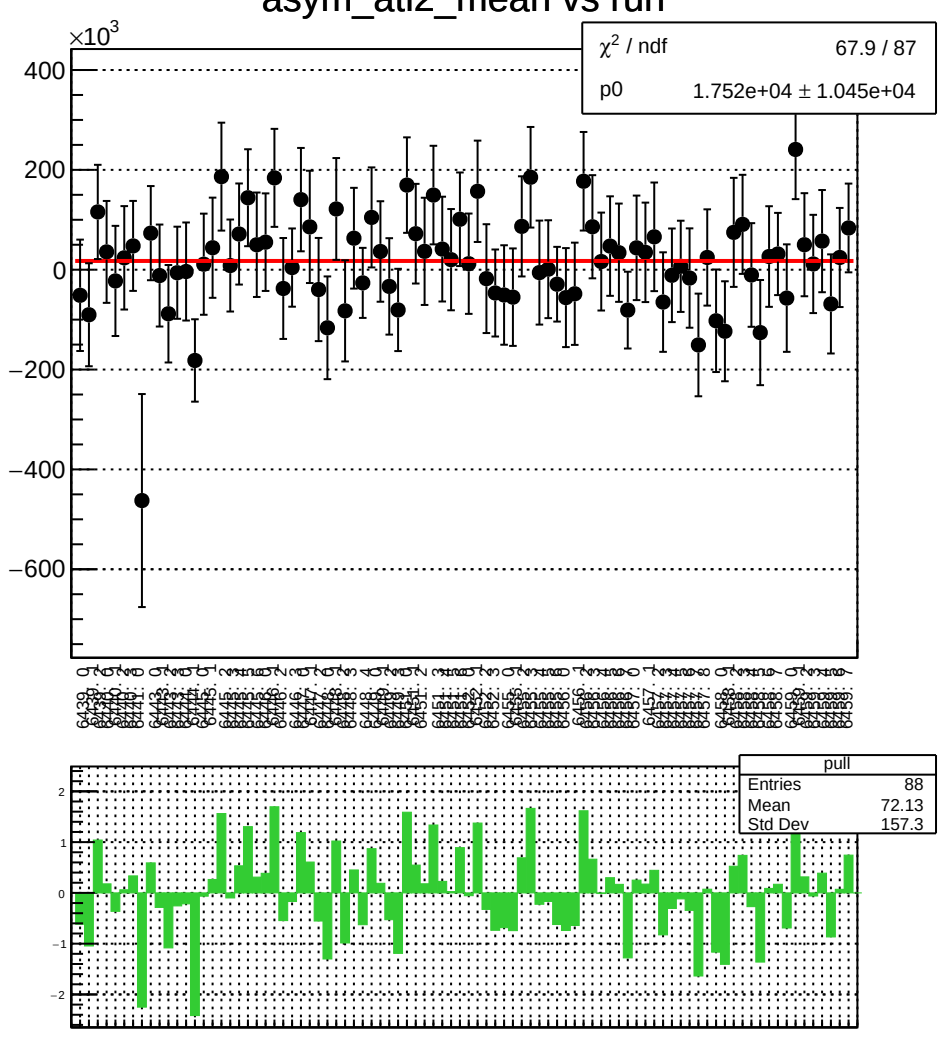

pull1D
Entries 88
Mean 0.001988
Std Dev 1.041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

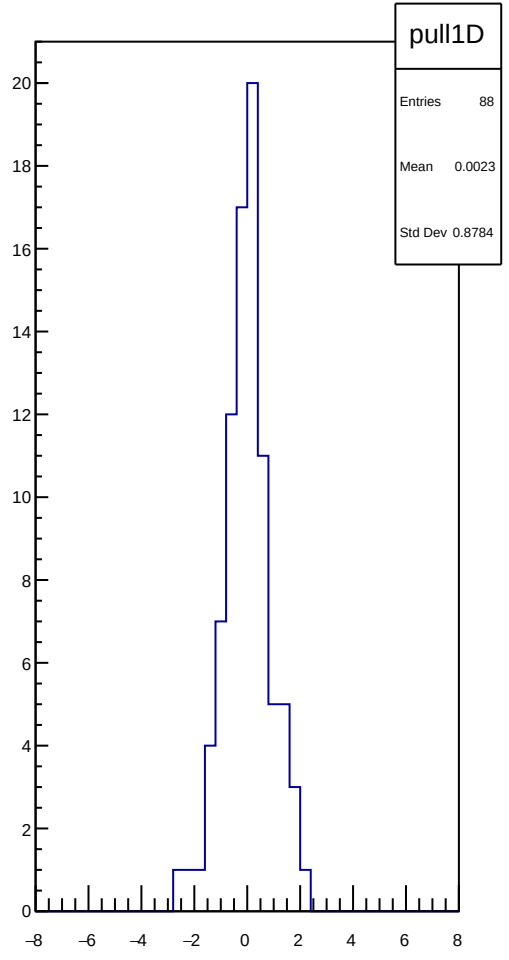

reg_asym_atl2_rms vs run
χ² / ndf 180.8 / 87
p0 2901 ± 2.227
3050
3000
2950
2900
2850
2800

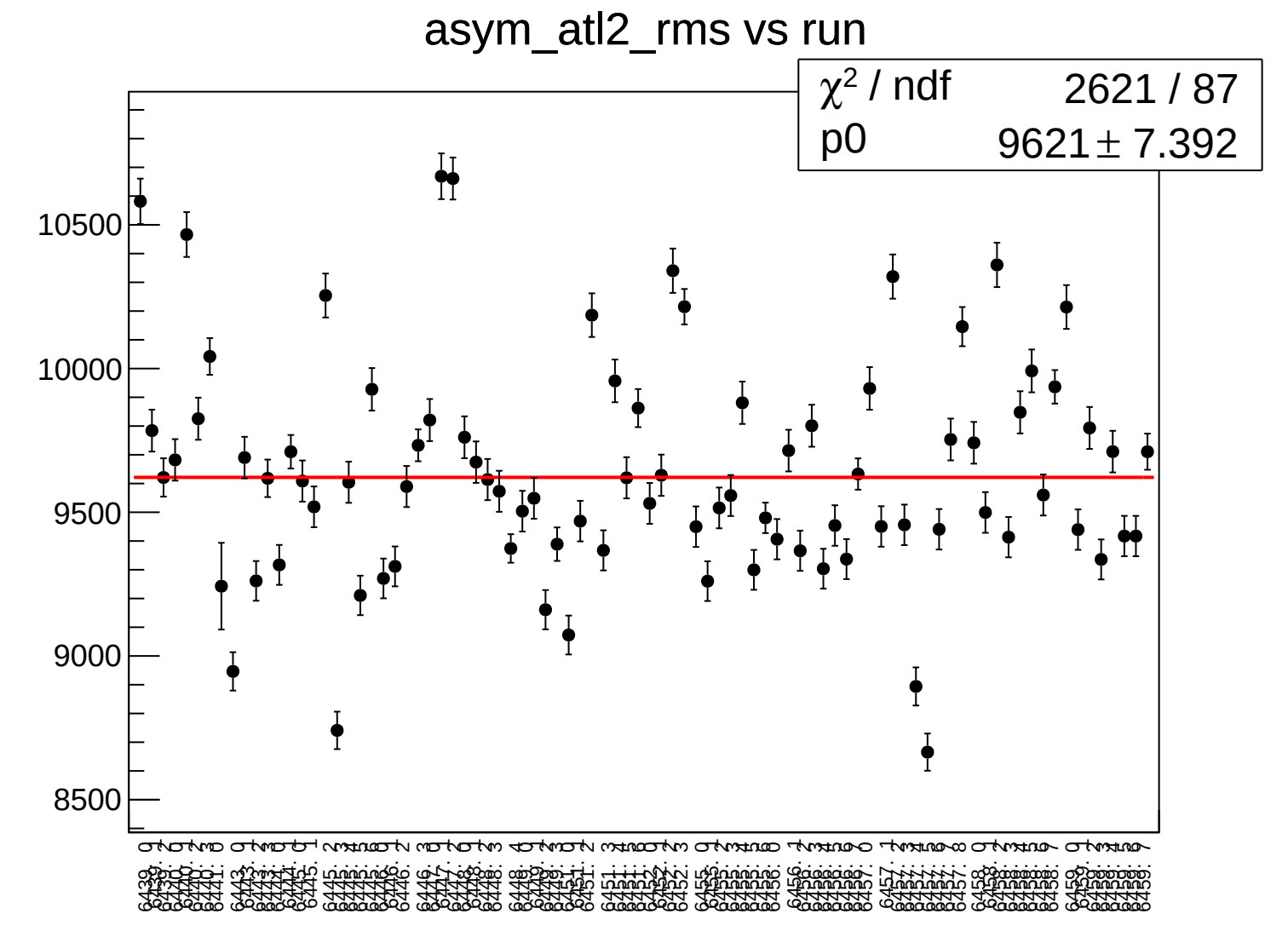

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 70.06 / 87
p0 −1.603e+04 ± 9965
600
400
200
0
−200
−400
pull
Entries 88
Mean −1391
Std Dev 1449
2
1
0
−1
−2

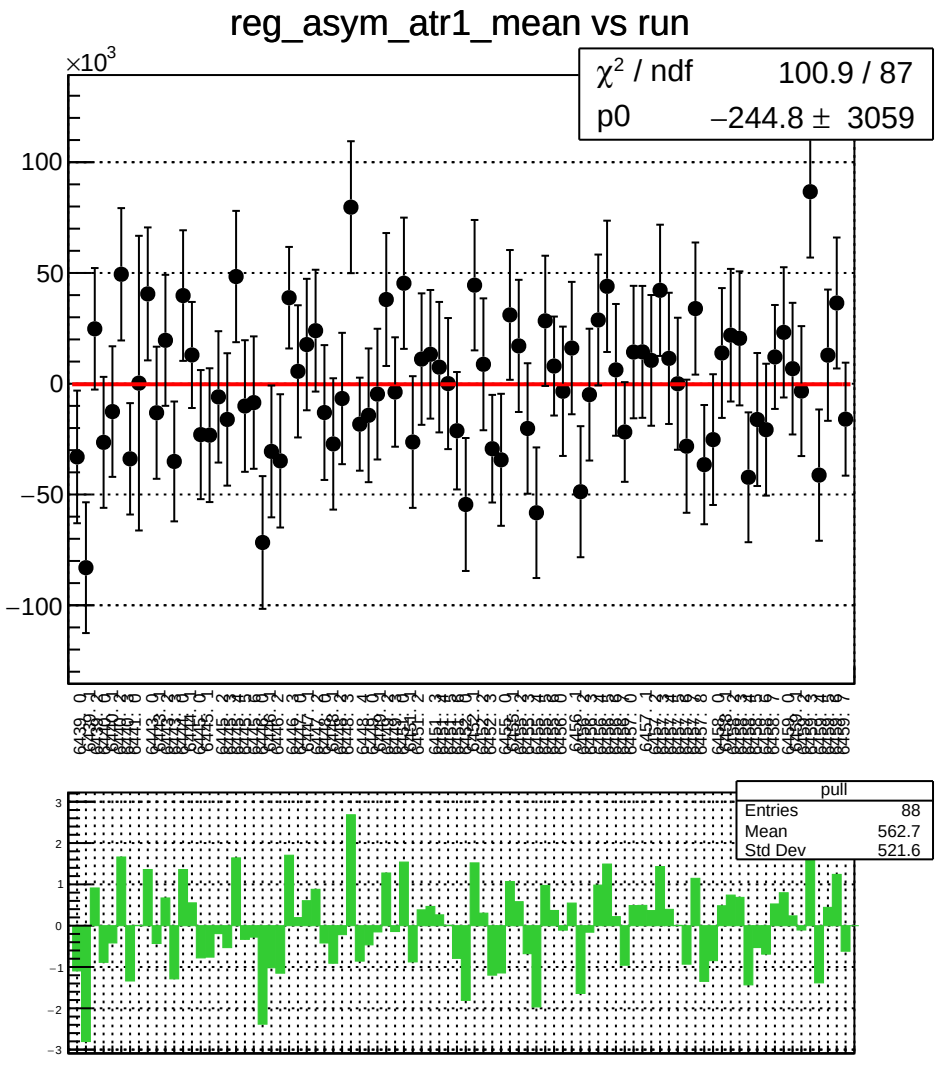

pull1D
Entries 88
Mean −0.001449
Std Dev 0.8923
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

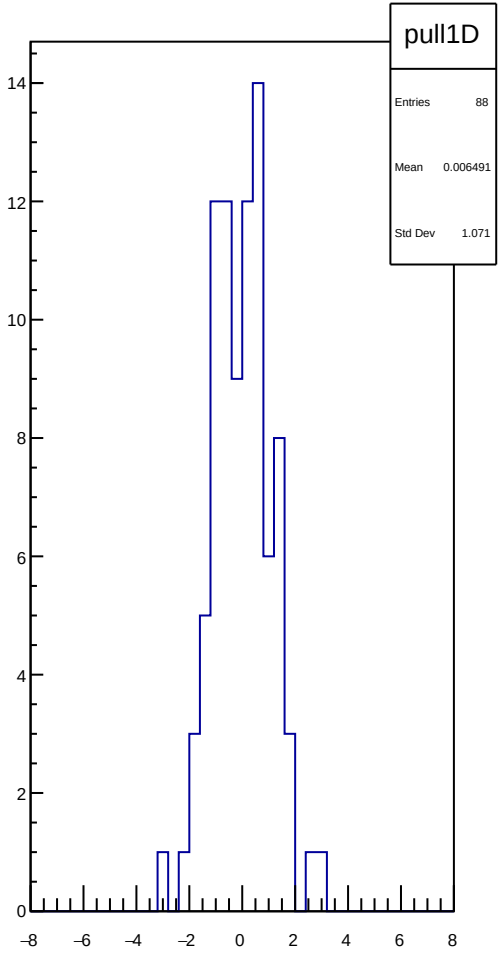

asym_atl2_correction_rms vs run
χ² / ndf 3123 / 87
p0 9170 ± 7.046
10500
10000
9500
9000
8500
8000

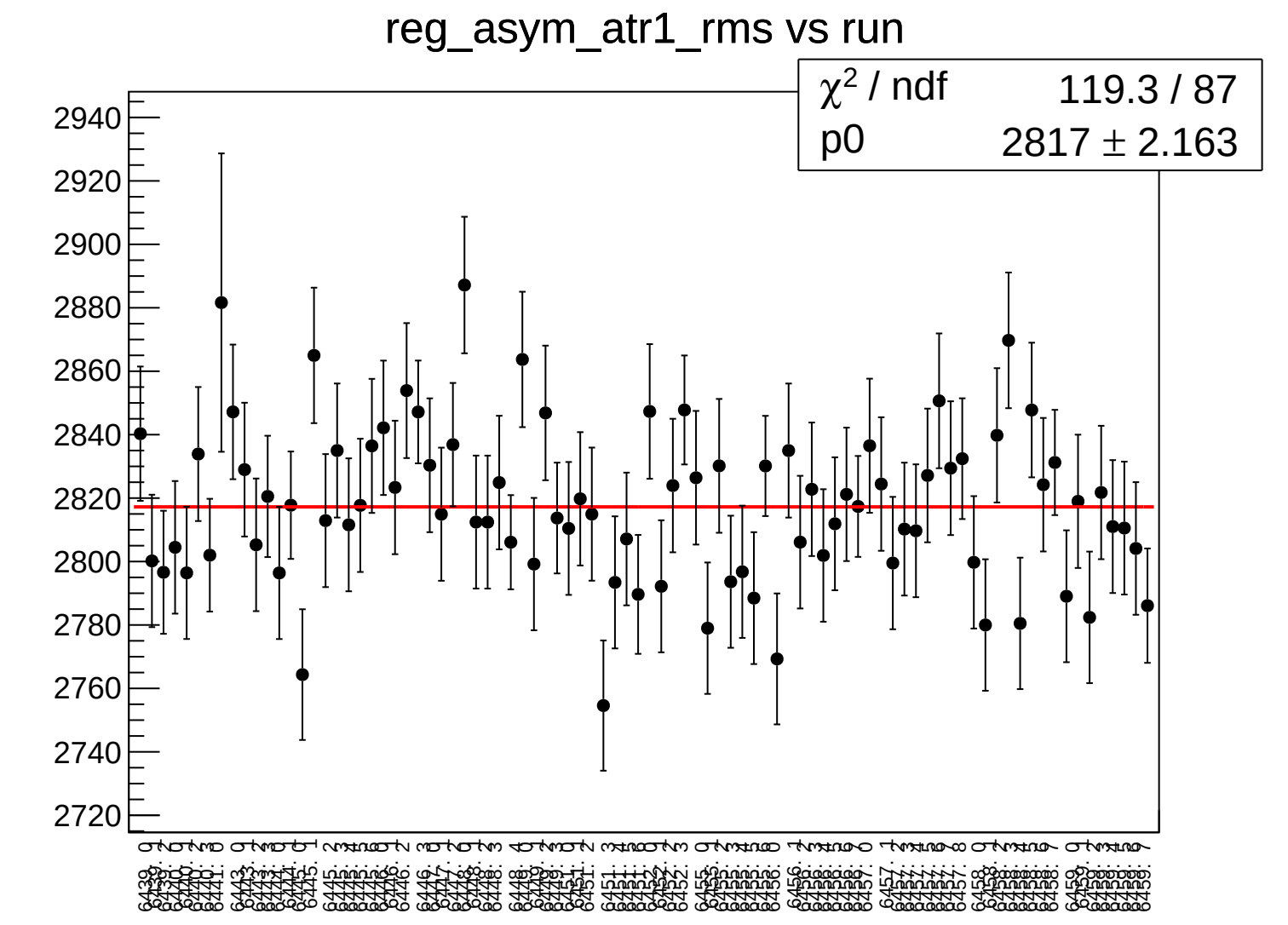

asym_atl2_mean vs run
×10^3
400
200
0
−200
−400
−600
χ² / ndf 67.9 / 87
p0 1.752e+04 ± 1.045e+04
pull
Entries 88
Mean 72.13
Std Dev 157.3
2
1
0
−1
−2

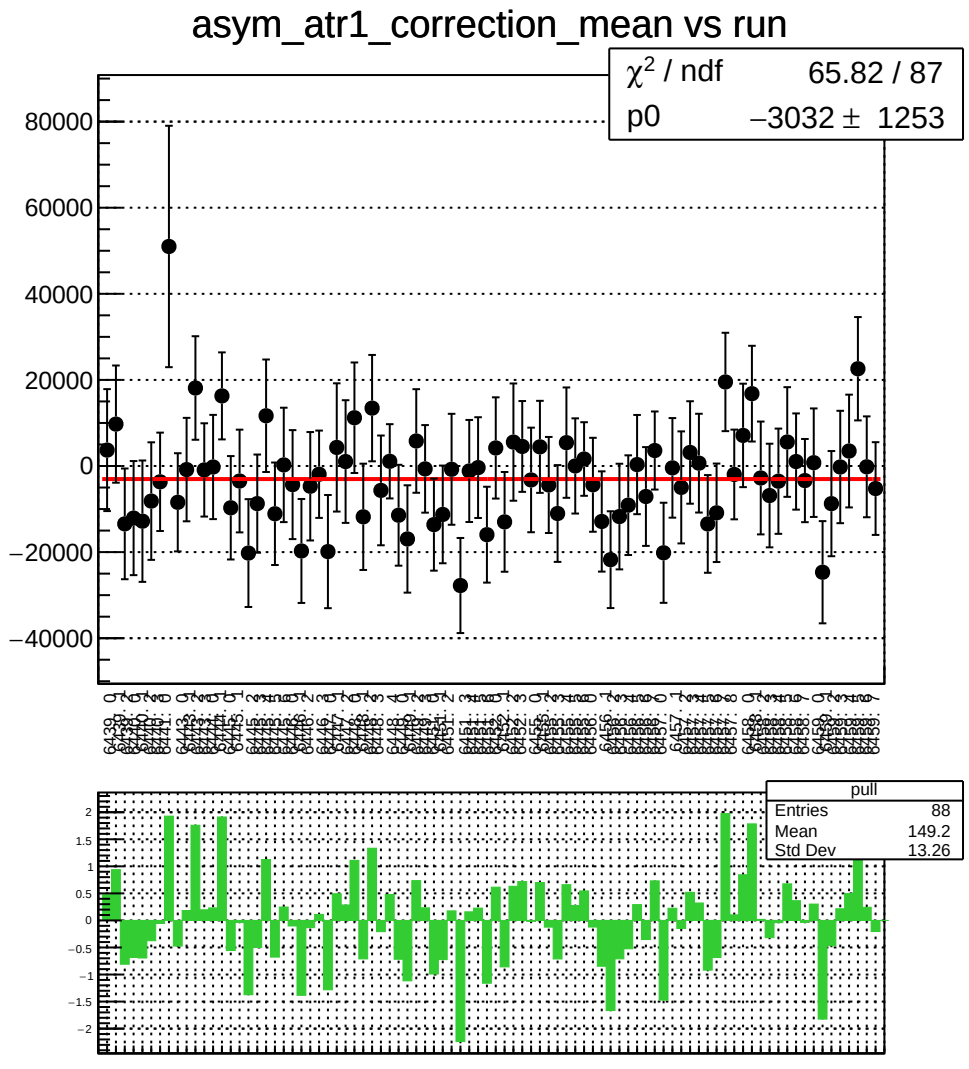

pull1D
Entries 88
Mean 0.0023
Std Dev 0.8784
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

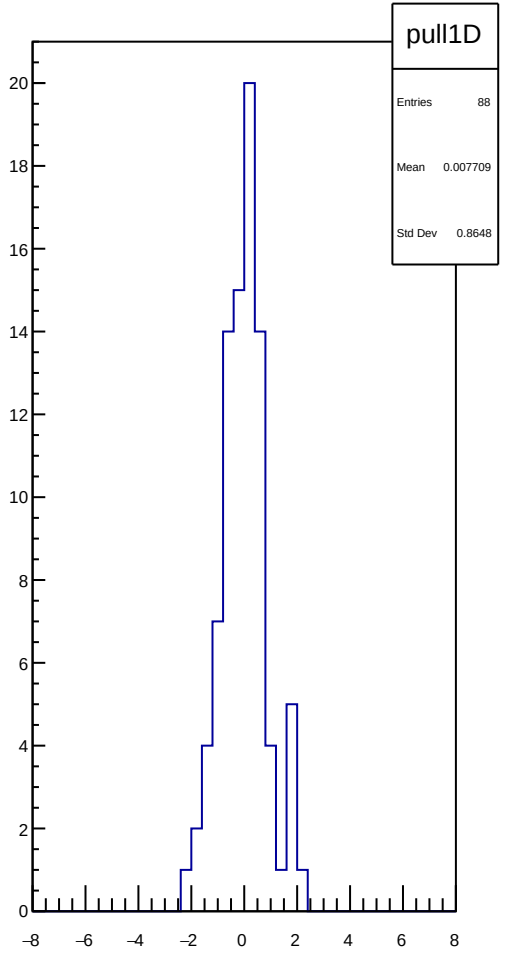

asym_atl2_rms vs run
χ² / ndf 2621 / 87
p0 9621 ± 7.392
10500
10000
9500
9000
8500

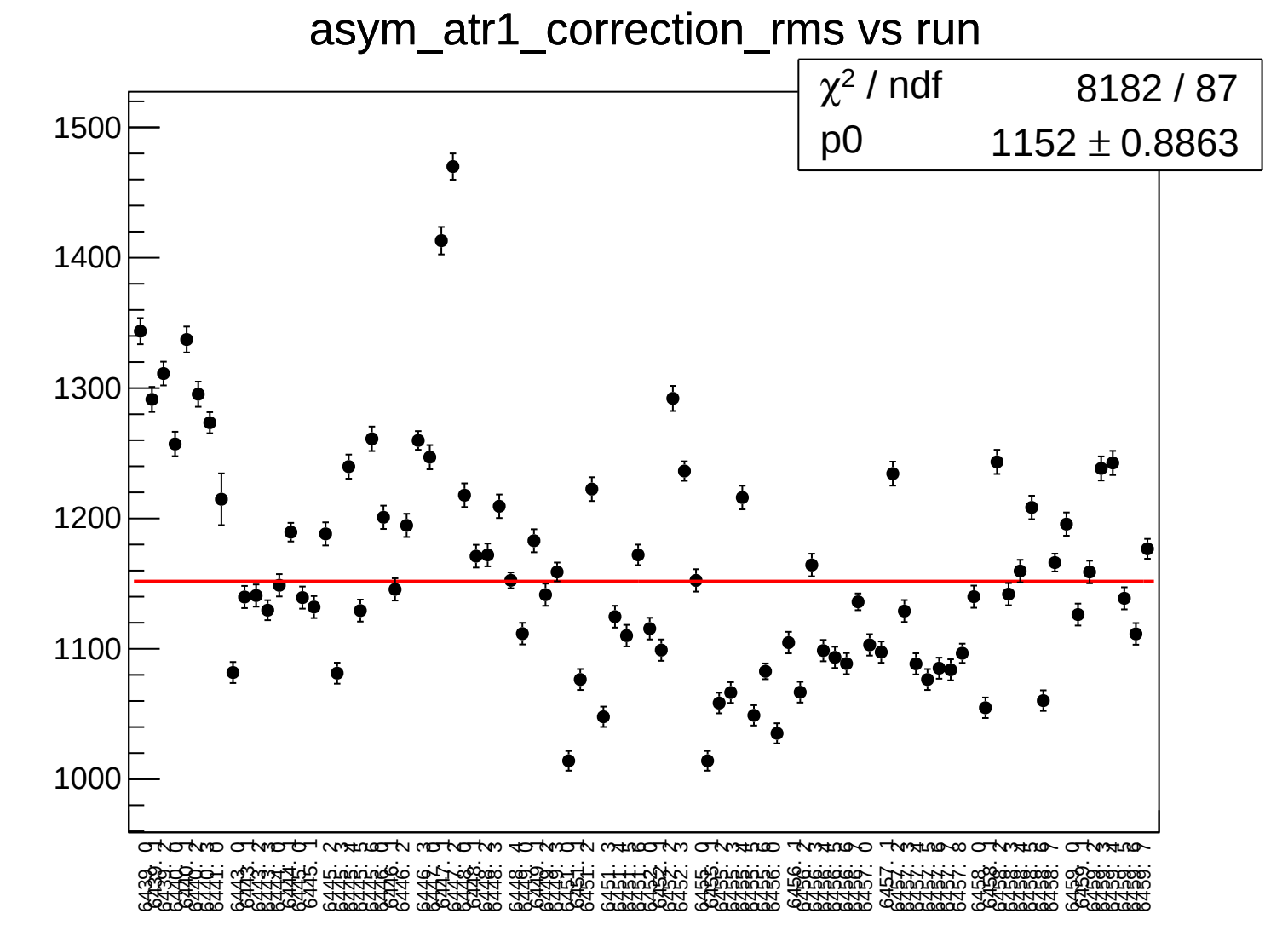

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 100.9 / 87
p0 −244.8 ± 3059
100
50
0
−50
−100
pull
Entries 88
Mean 562.7
Std Dev 521.6
3
2
1
0
−1
−2
−3

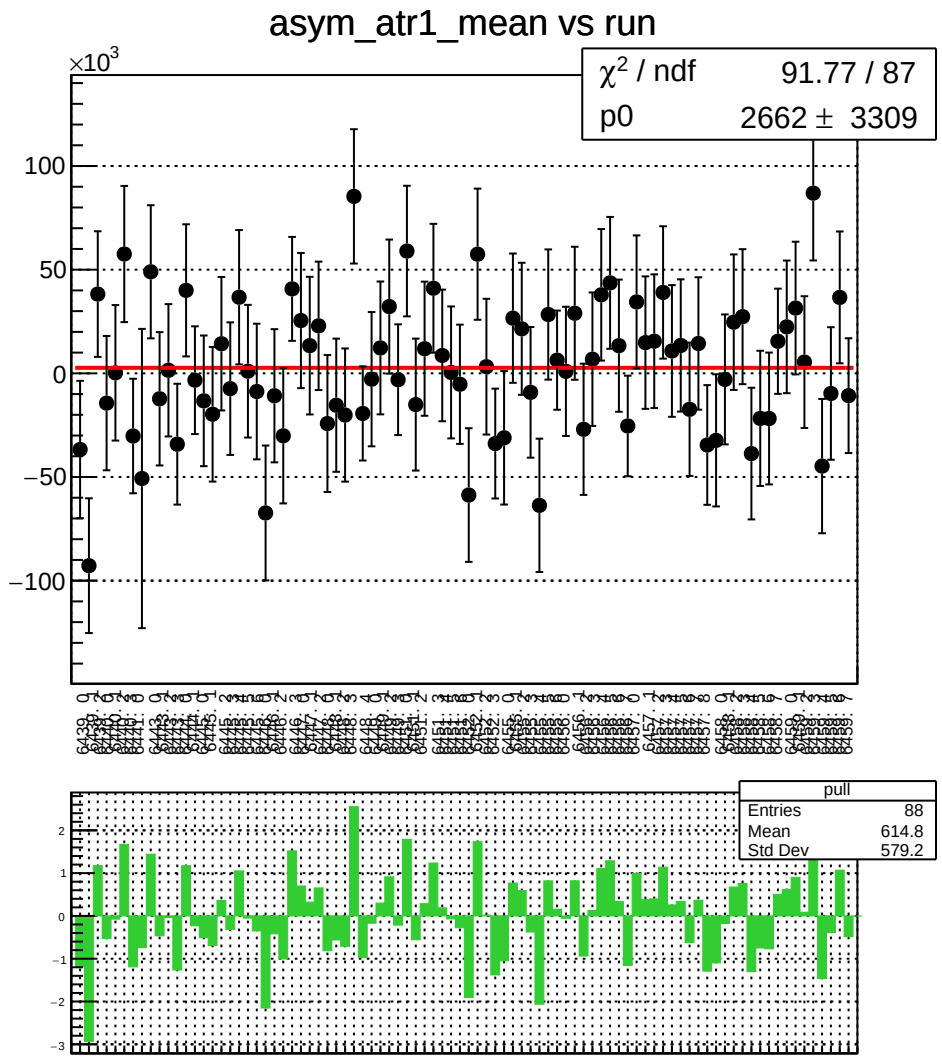

pull1D
Entries 88
Mean 0.006491
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

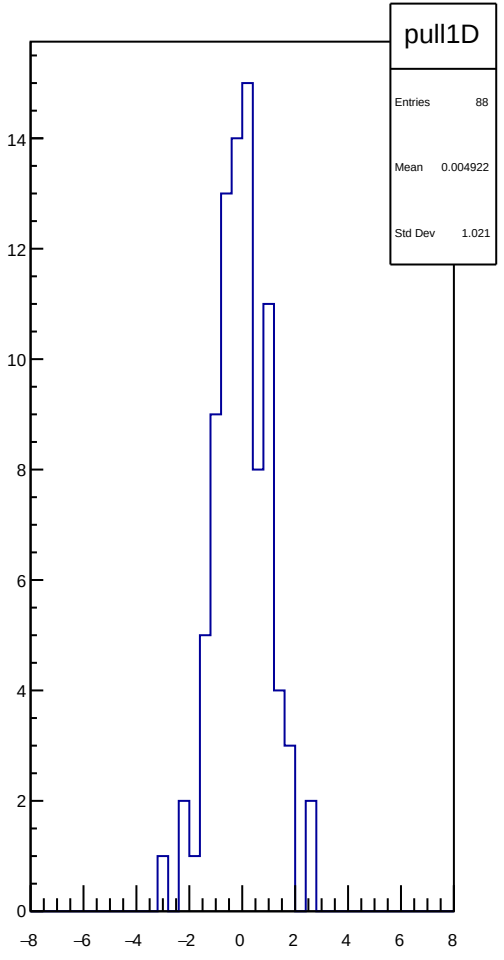

reg_asym_atr1_rms vs run
χ² / ndf 119.3 / 87
p0 2817 ± 2.163
2940
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740
2720

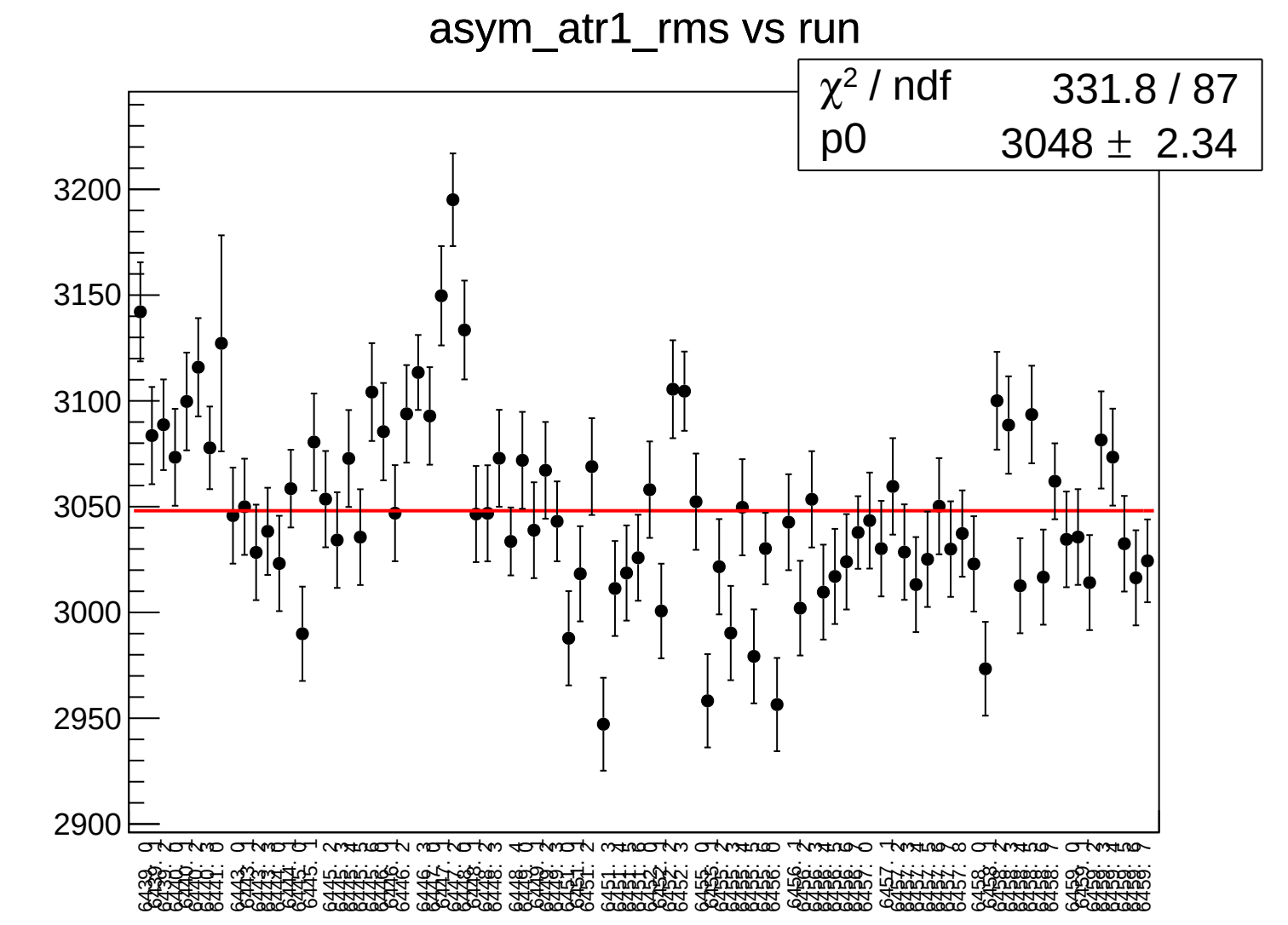

asym_atr1_correction_mean vs run
χ² / ndf 65.82 / 87
p0 −3032 ± 1253
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 149.2
Std Dev 13.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

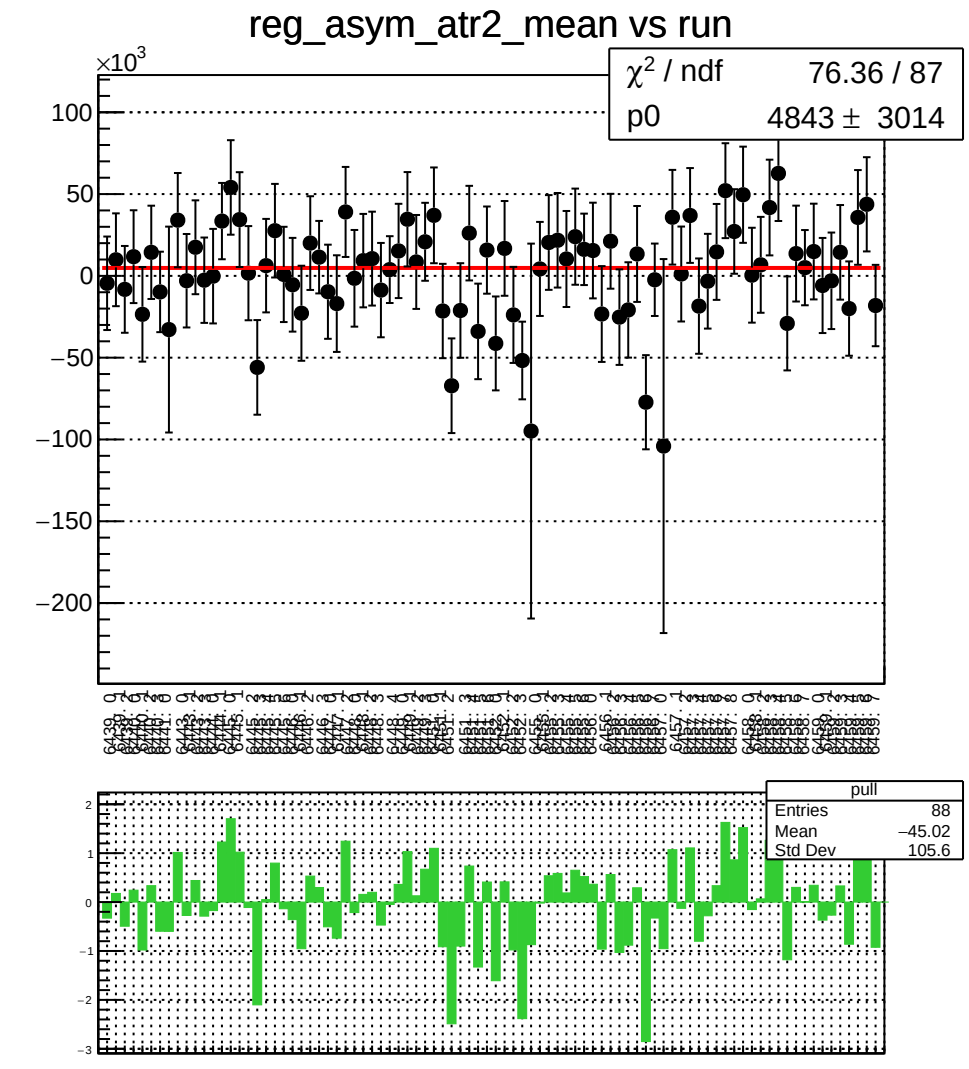

pull1D
Entries 88
Mean 0.007709
Std Dev 0.8648
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

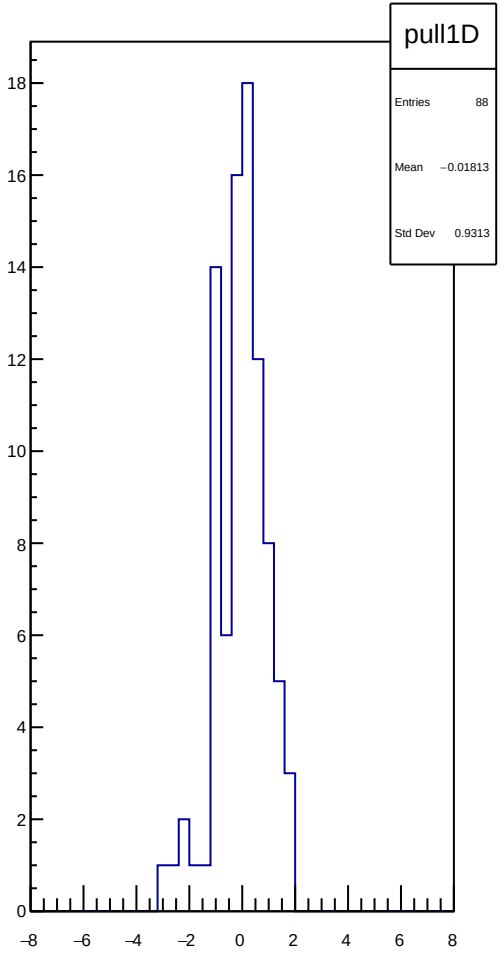

asym_atr1_correction_rms vs run
χ² / ndf 8182 / 87
p0 1152 ± 0.8863
1500
1400
1300
1200
1100
1000

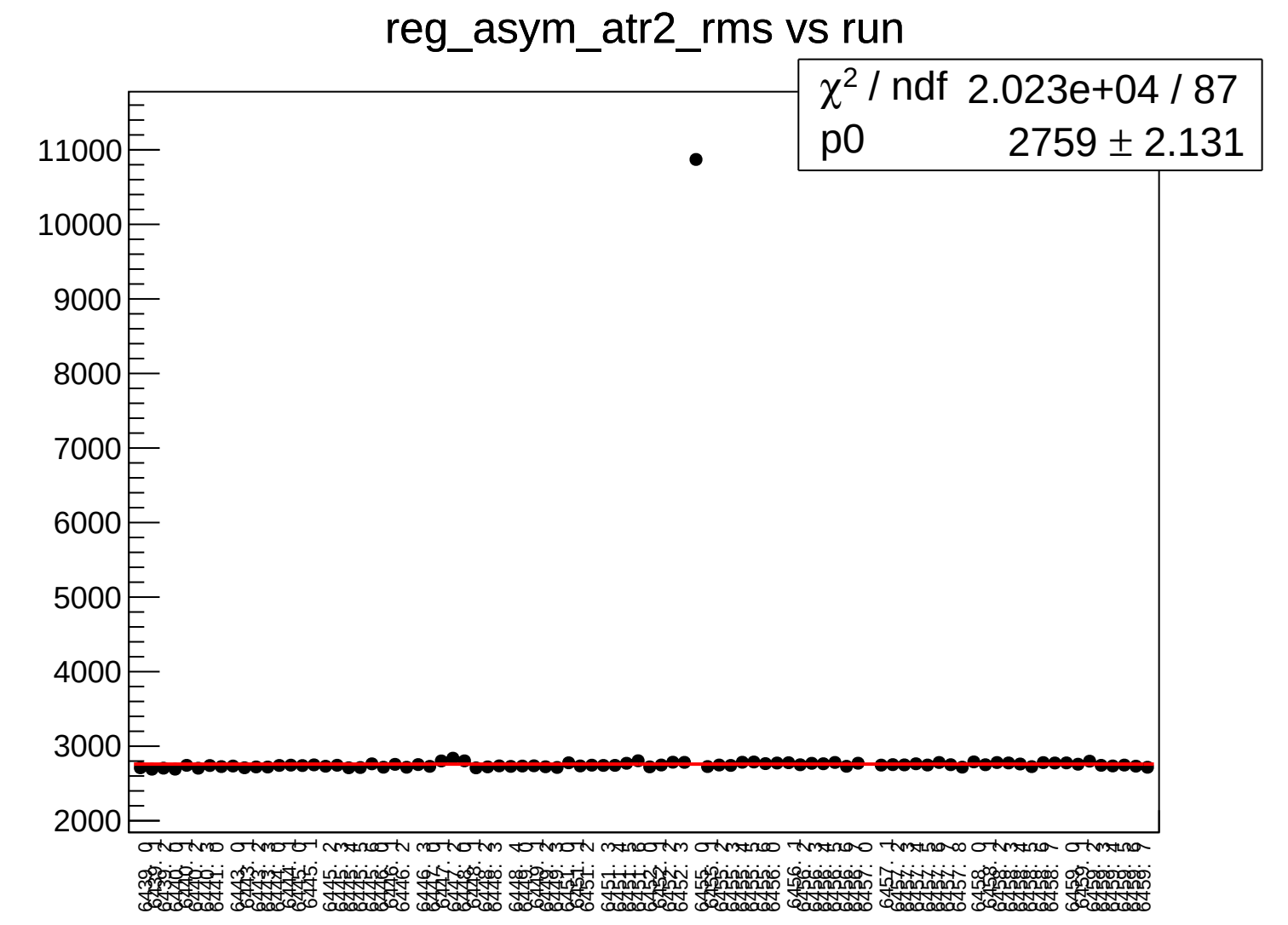

asym_atr1_mean vs run
×10^3
χ² / ndf 91.77 / 87
p0 2662 ± 3309
100
50
0
−50
−100
pull
Entries 88
Mean 614.8
Std Dev 579.2
2
1
0
−1
−2
−3

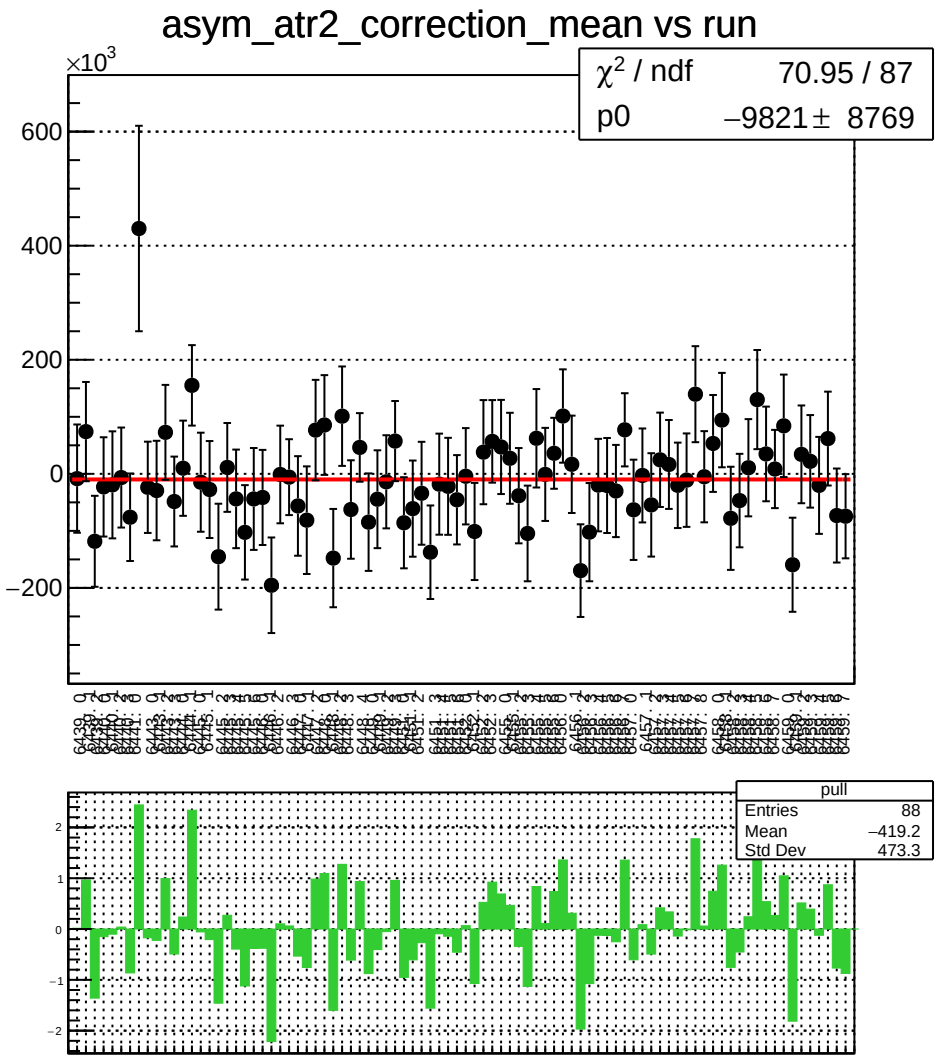

pull1D
Entries 88
Mean 0.004922
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

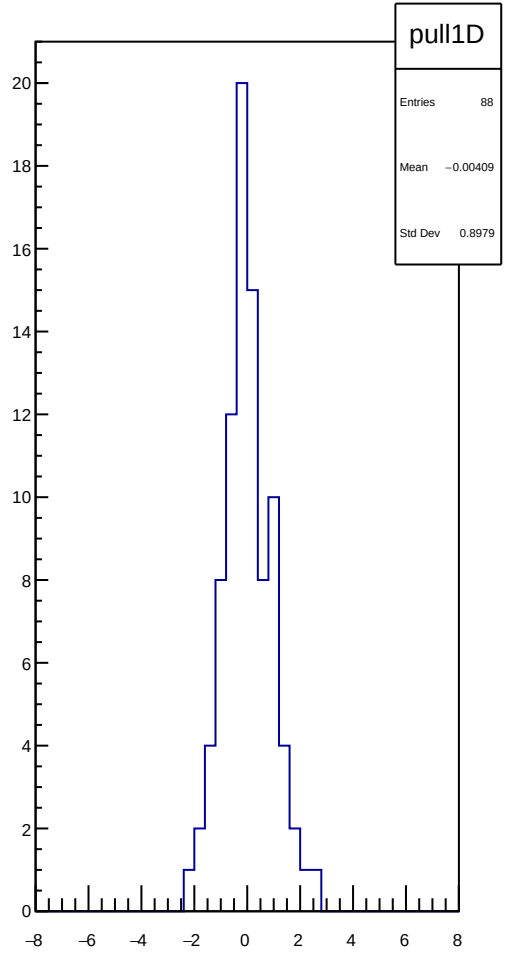

asym_atr1_rms vs run
χ^2 / ndf 331.8 / 87
p0 3048 ± 2.34
3200
3150
3100
3050
3000
2950
2900

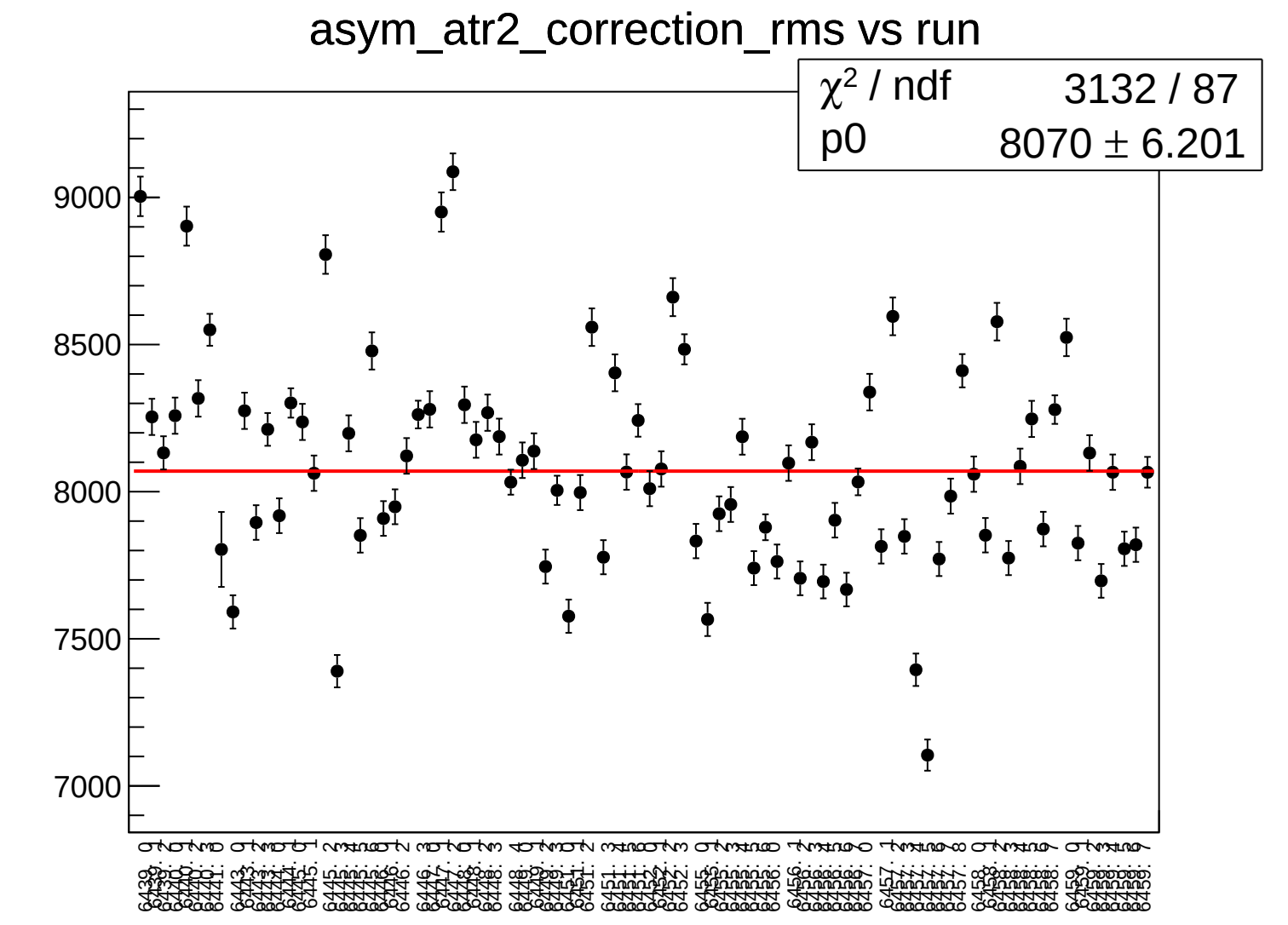

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 76.36 / 87
p0 4843 ± 3014
pull
Entries 88
Mean −45.02
Std Dev 105.6

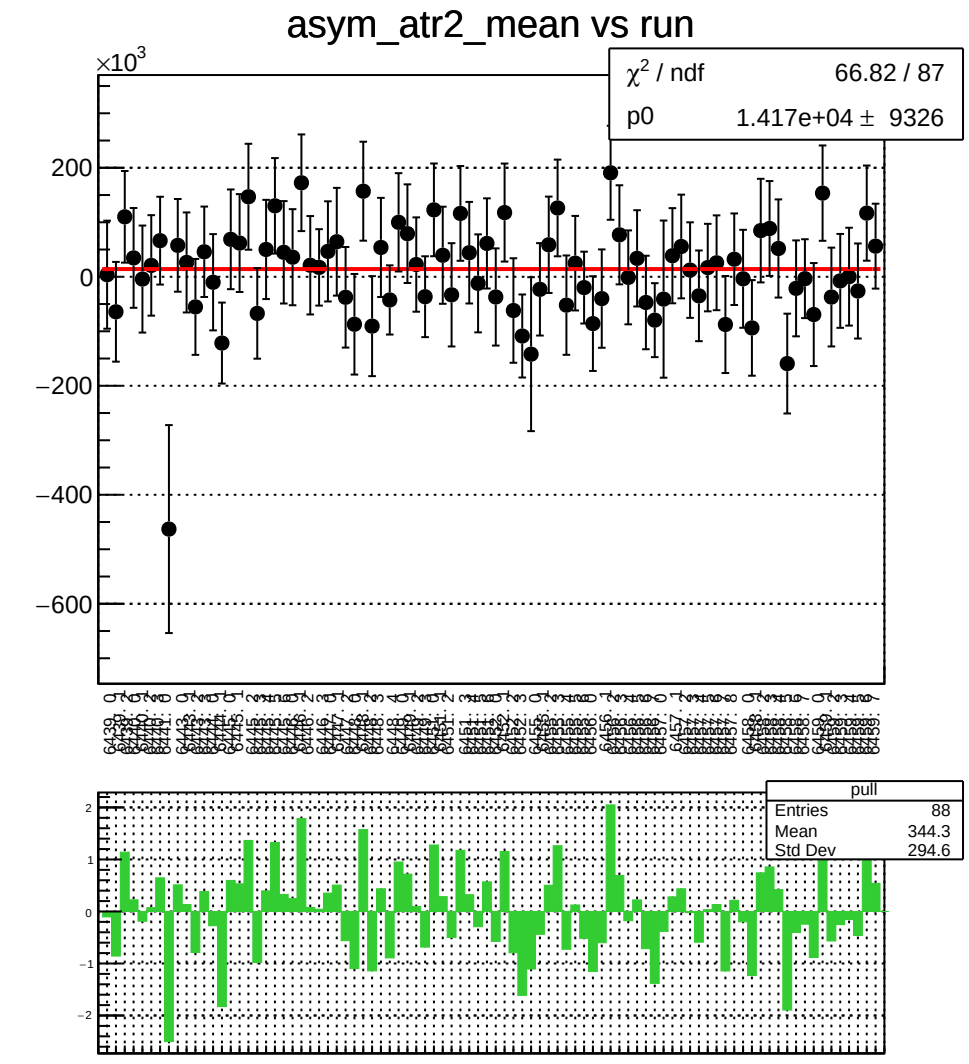

pull1D
Entries 88
Mean −0.01813
Std Dev 0.9313

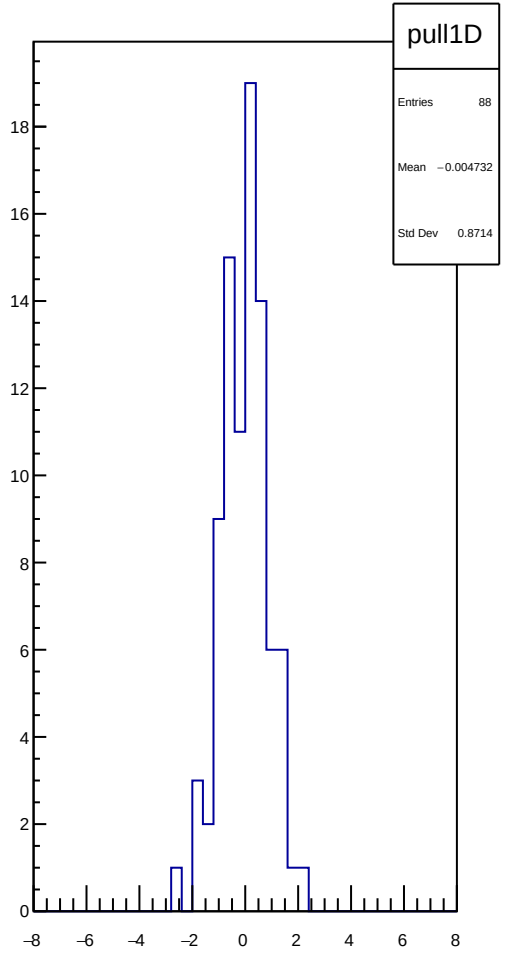

reg_asym_atr2_rms vs run
χ^2 / ndf 2.023e+04 / 87
p0 2759 ± 2.131
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

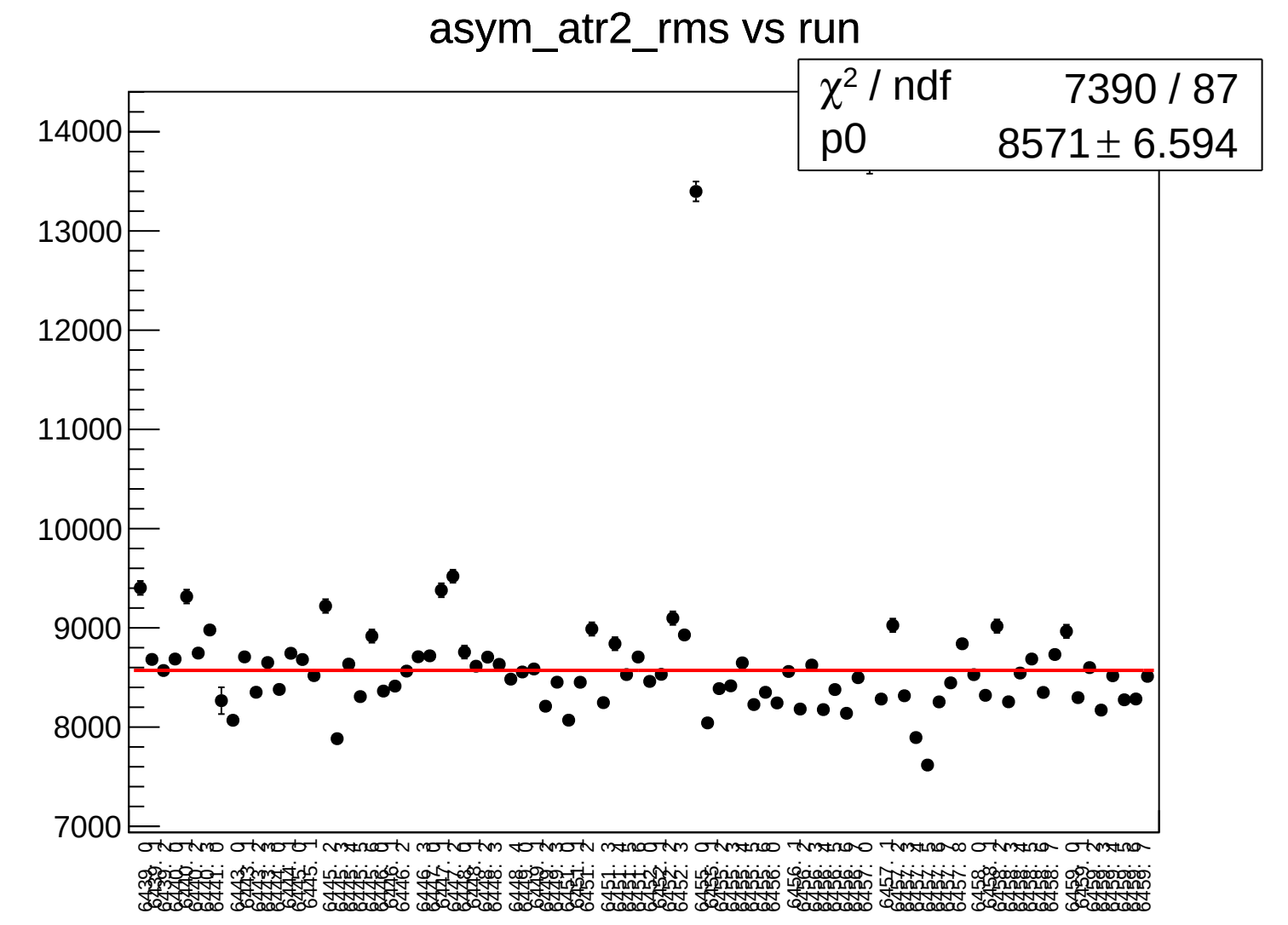

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 70.95 / 87
p0 −9821 ± 8769
600
400
200
0
−200
pull
Entries 88
Mean −419.2
Std Dev 473.3
2
1
0
−1
−2

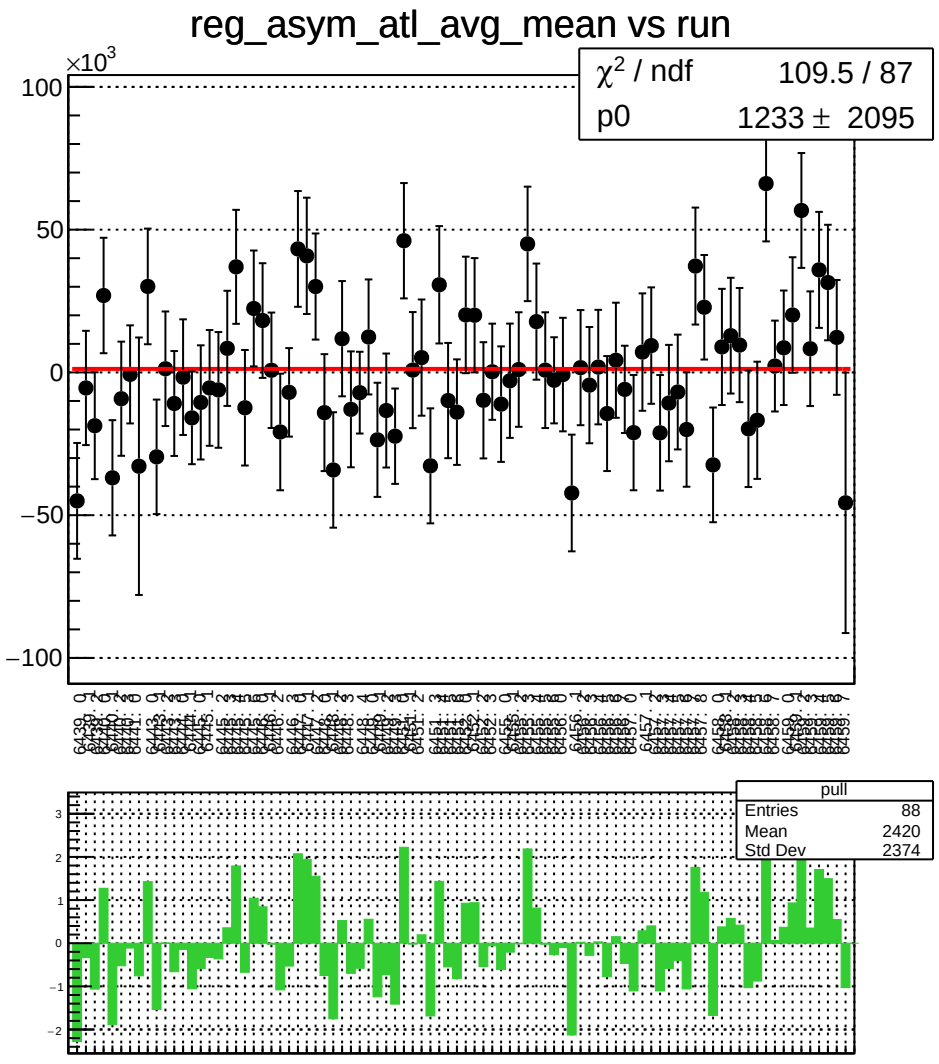

pull1D
Entries 88
Mean −0.00409
Std Dev 0.8979
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

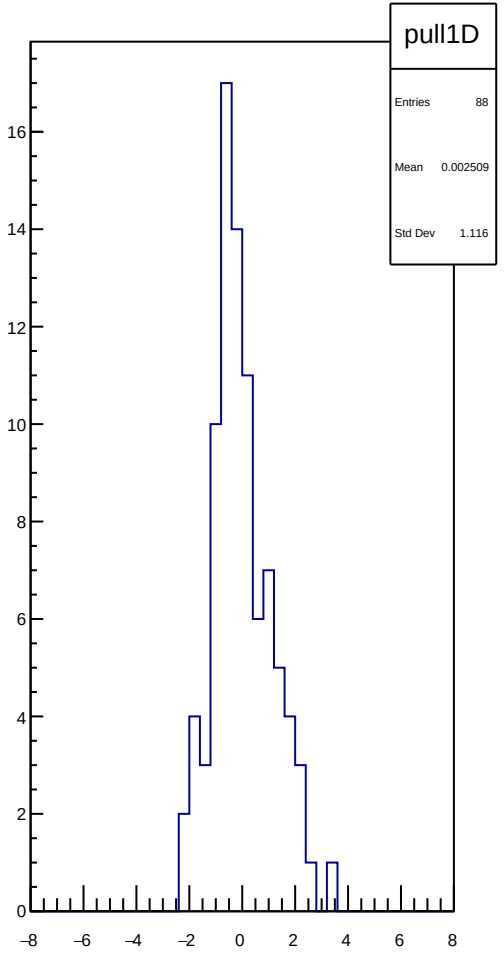

asym_atr2_correction_rms vs run
χ² / ndf 3132 / 87
p0 8070 ± 6.201
9000
8500
8000
7500
7000

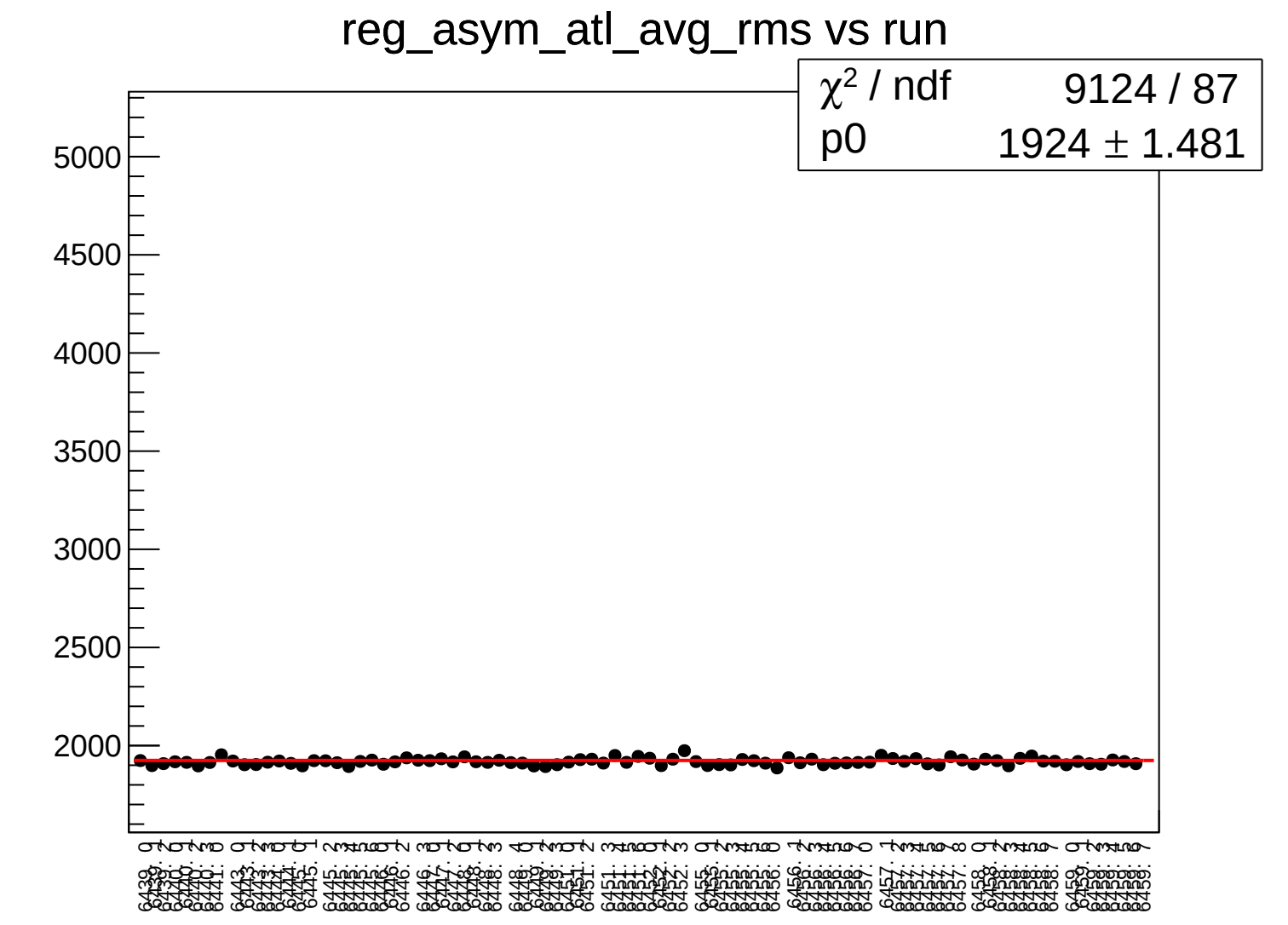

asym_atr2_mean vs run
×10^3
χ² / ndf 66.82 / 87
p0 1.417e+04 ± 9326
200
0
−200
−400
−600
pull
Entries 88
Mean 344.3
Std Dev 294.6
2
1
0
−1
−2

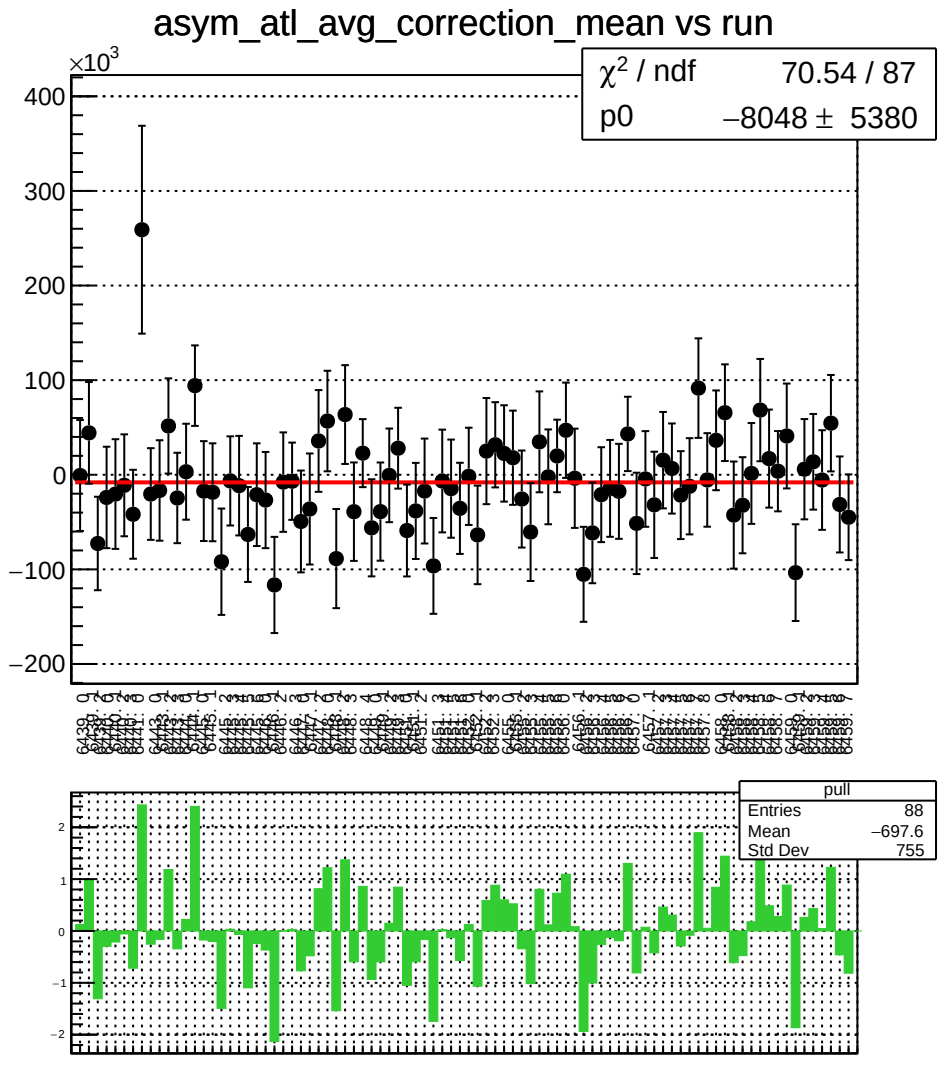

pull1D
Entries 88
Mean −0.004732
Std Dev 0.8714
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

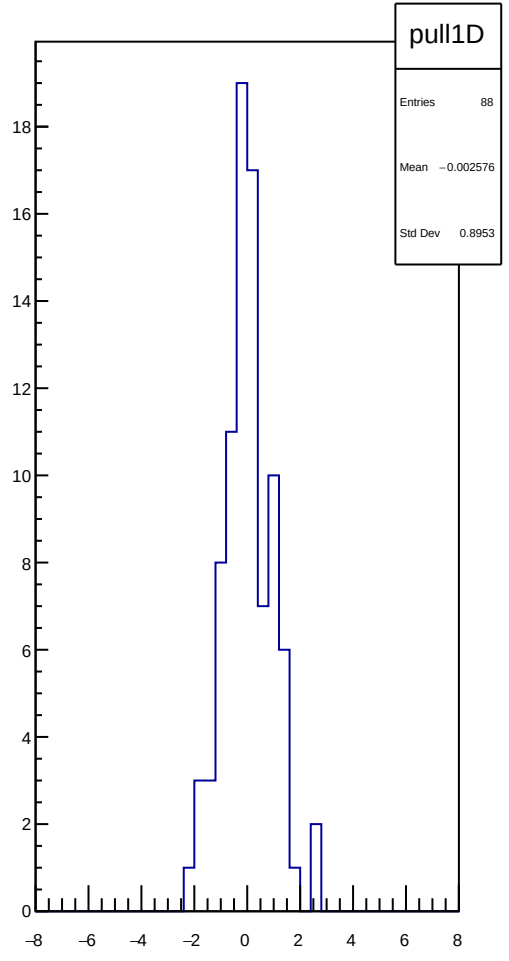

asym_atr2_rms vs run
χ^2 / ndf 7390 / 87
p0 8571 ± 6.594
14000
13000
12000
11000
10000
9000
8000
7000

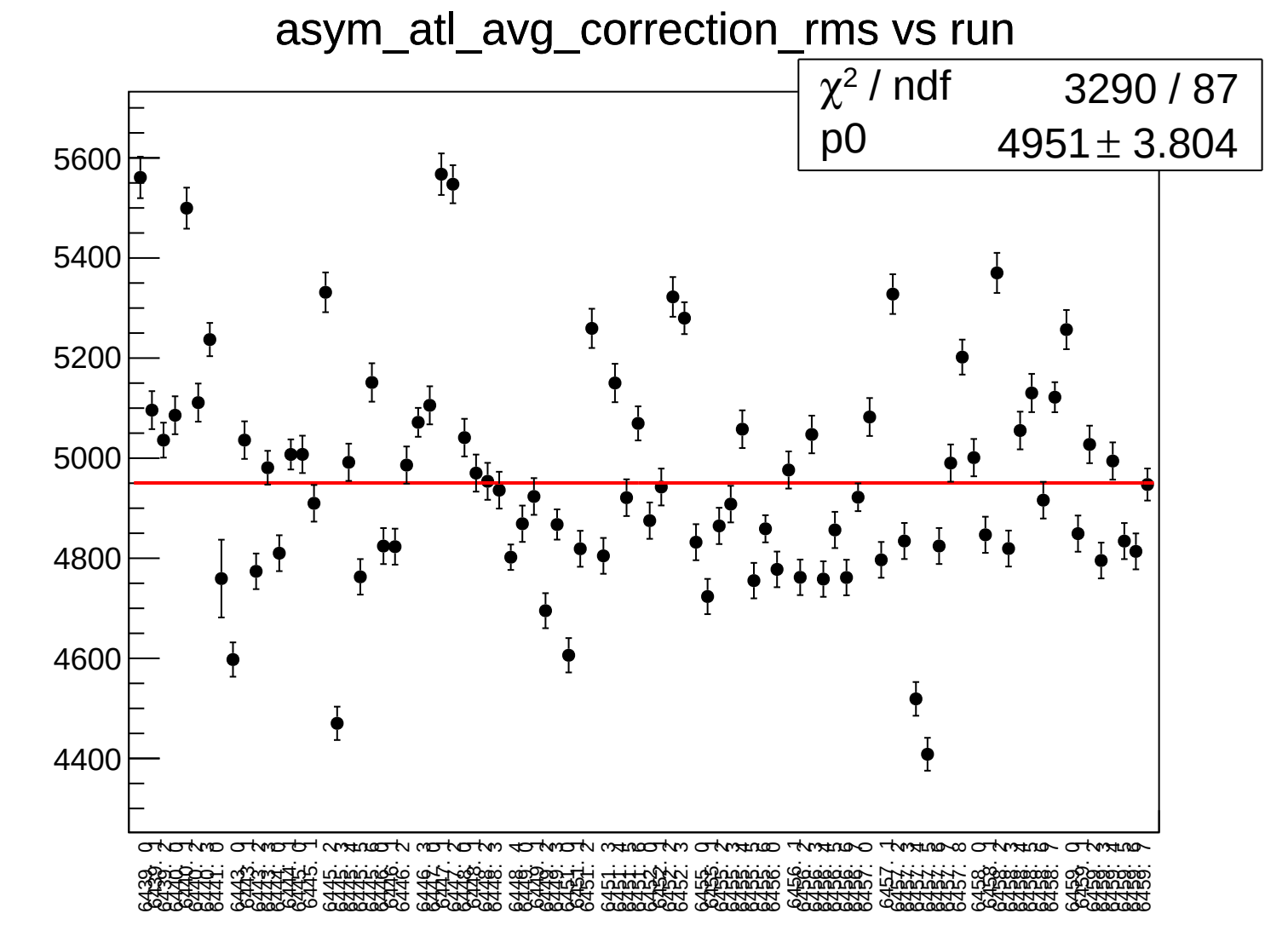

reg_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 109.5 / 87
p0 1233 ± 2095
pull
Entries 88
Mean 2420
Std Dev 2374

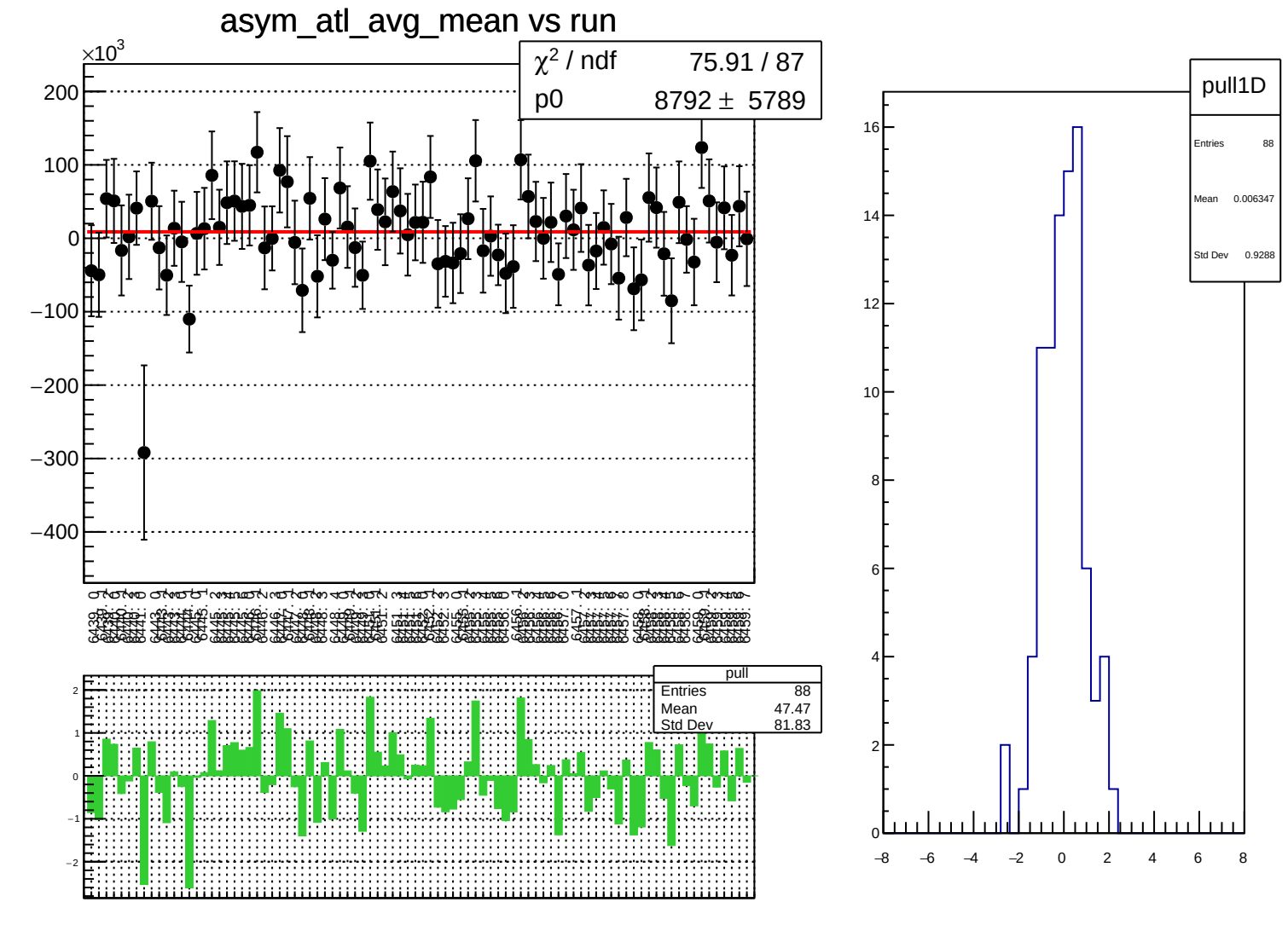

pull1D
Entries 88
Mean 0.002509
Std Dev 1.116

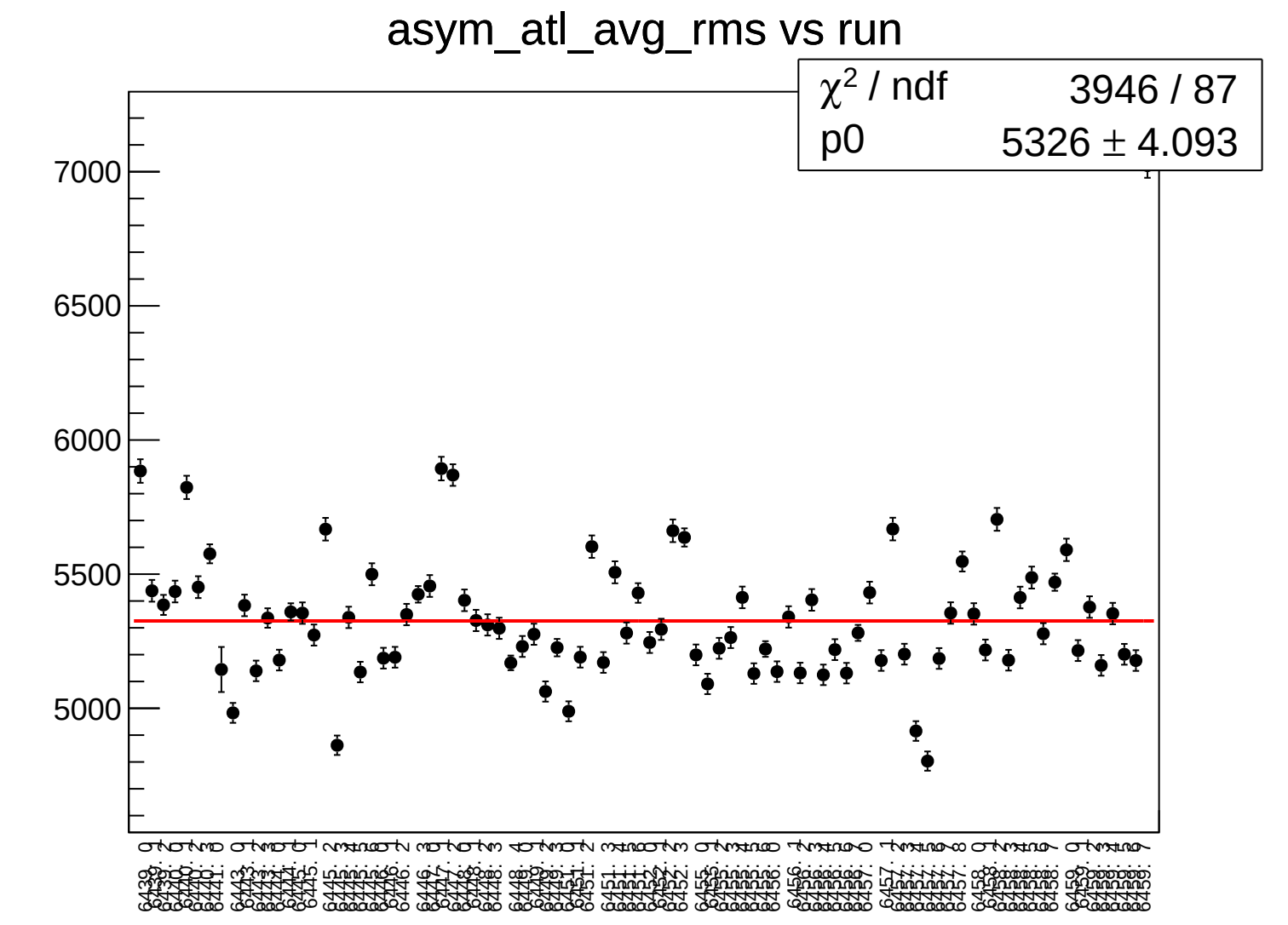

reg_asym_atl_avg_rms vs run
χ^2 / ndf 9124 / 87
p0 1924 ± 1.481
5000
4500
4000
3500
3000
2500
2000

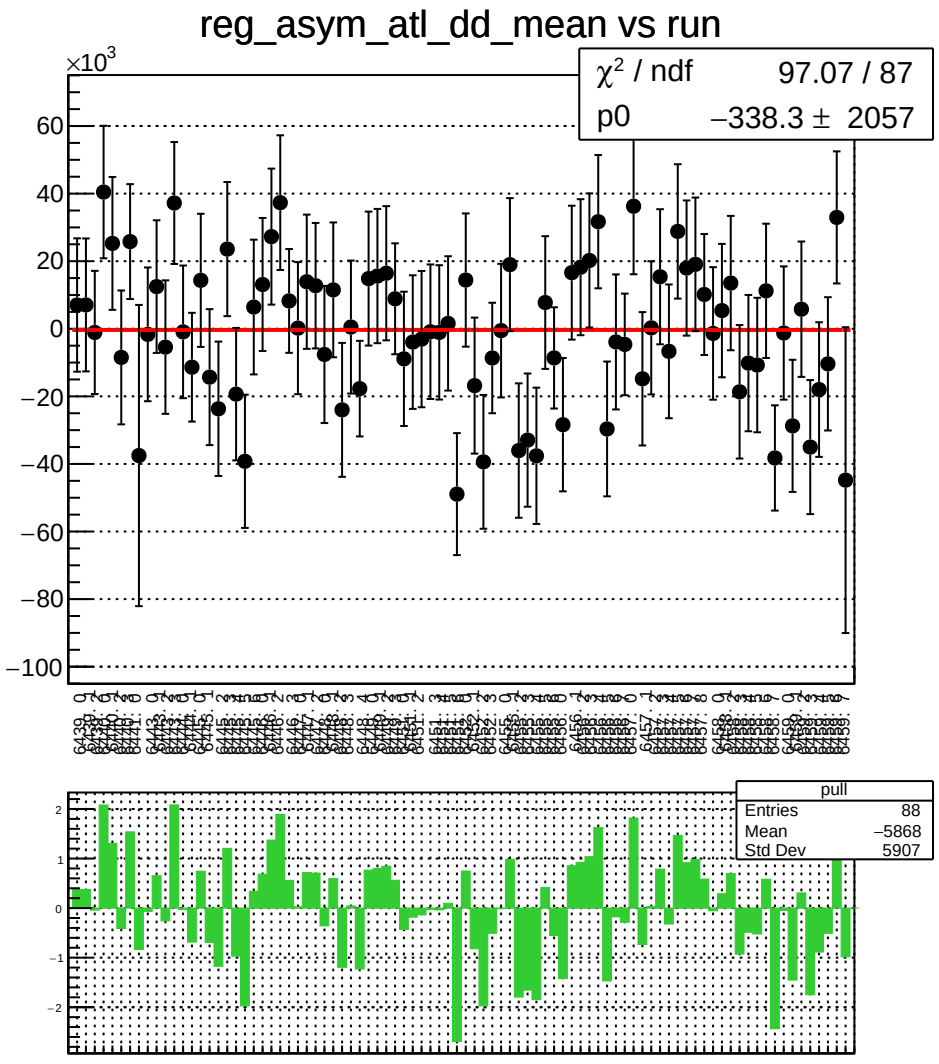

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 70.54 / 87
p0 −8048 ± 5380
400
300
200
100
0
−100
−200
pull
Entries 88
Mean −697.6
Std Dev 755
2
1
0
−1
−2

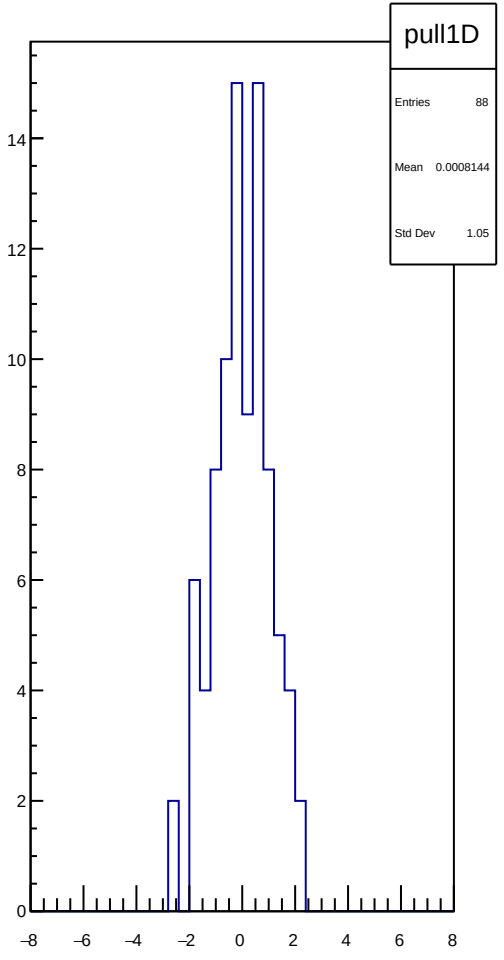

pull1D
Entries 88
Mean −0.002576
Std Dev 0.8953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

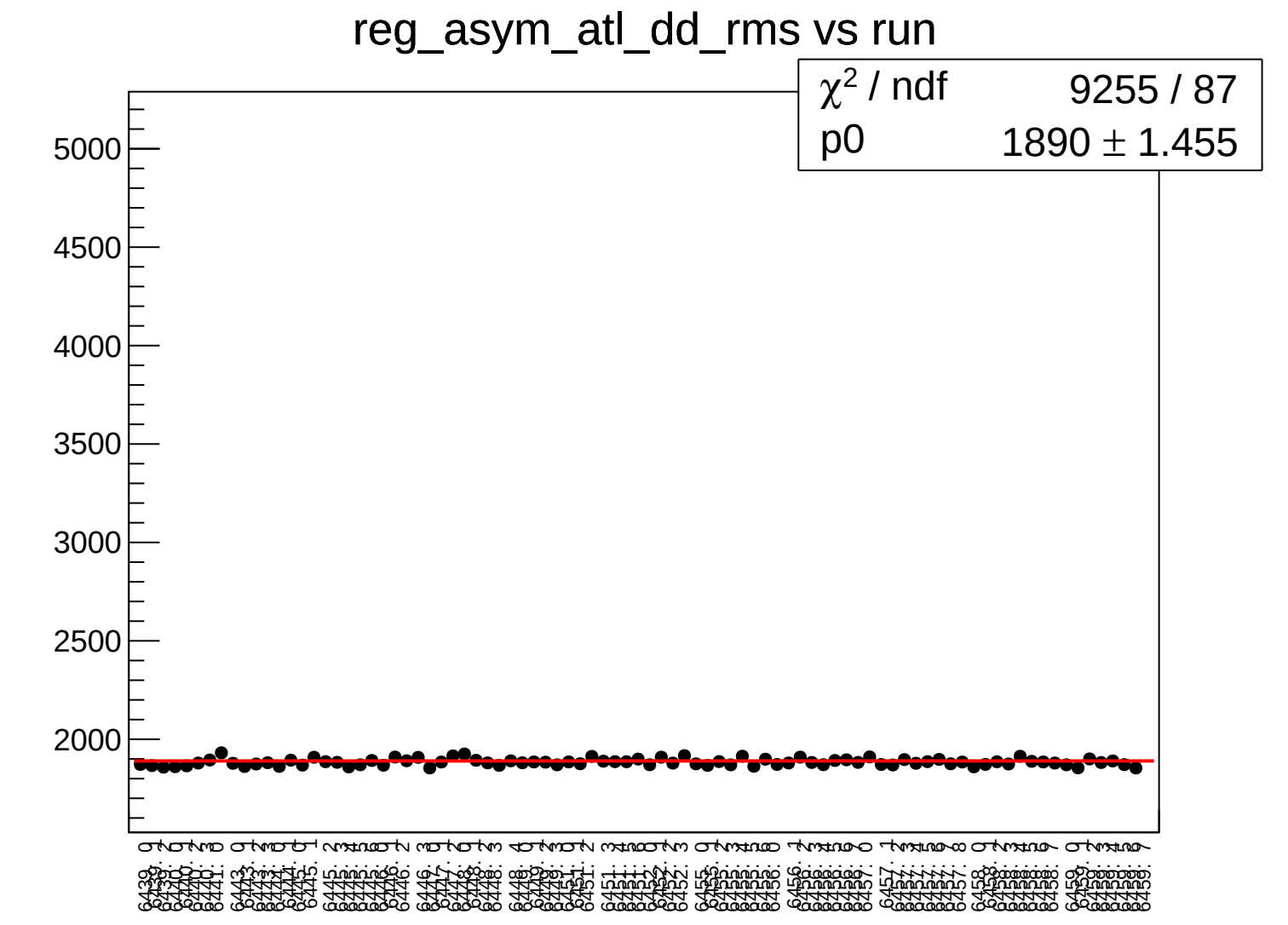

asym_atl_avg_correction_rms vs run
χ² / ndf 3290 / 87
p0 4951 ± 3.804
5600
5400
5200
5000
4800
4600
4400

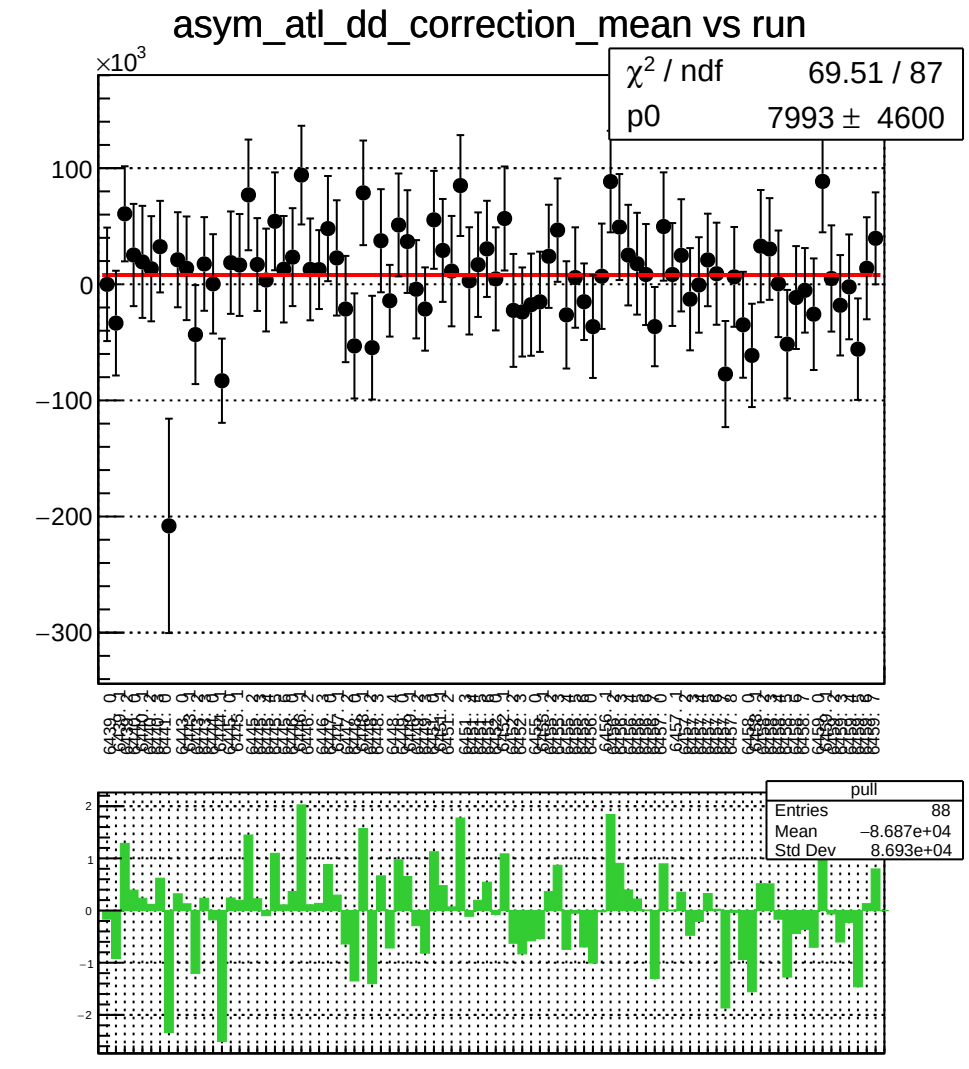

asym_atl_avg_mean vs run
×10^3
χ² / ndf 75.91 / 87
p0 8792 ± 5789
200
100
0
−100
−200
−300
−400
pull
Entries 88
Mean 47.47
Std Dev 81.83
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.006347
Std Dev 0.9288
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

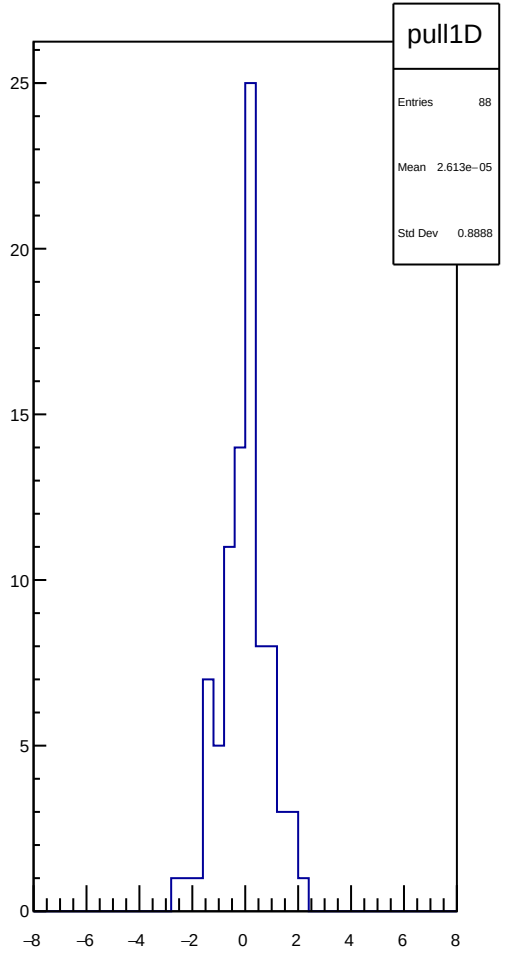

asym_atl_avg_rms vs run
χ² / ndf 3946 / 87
p0 5326 ± 4.093
7000
6500
6000
5500
5000

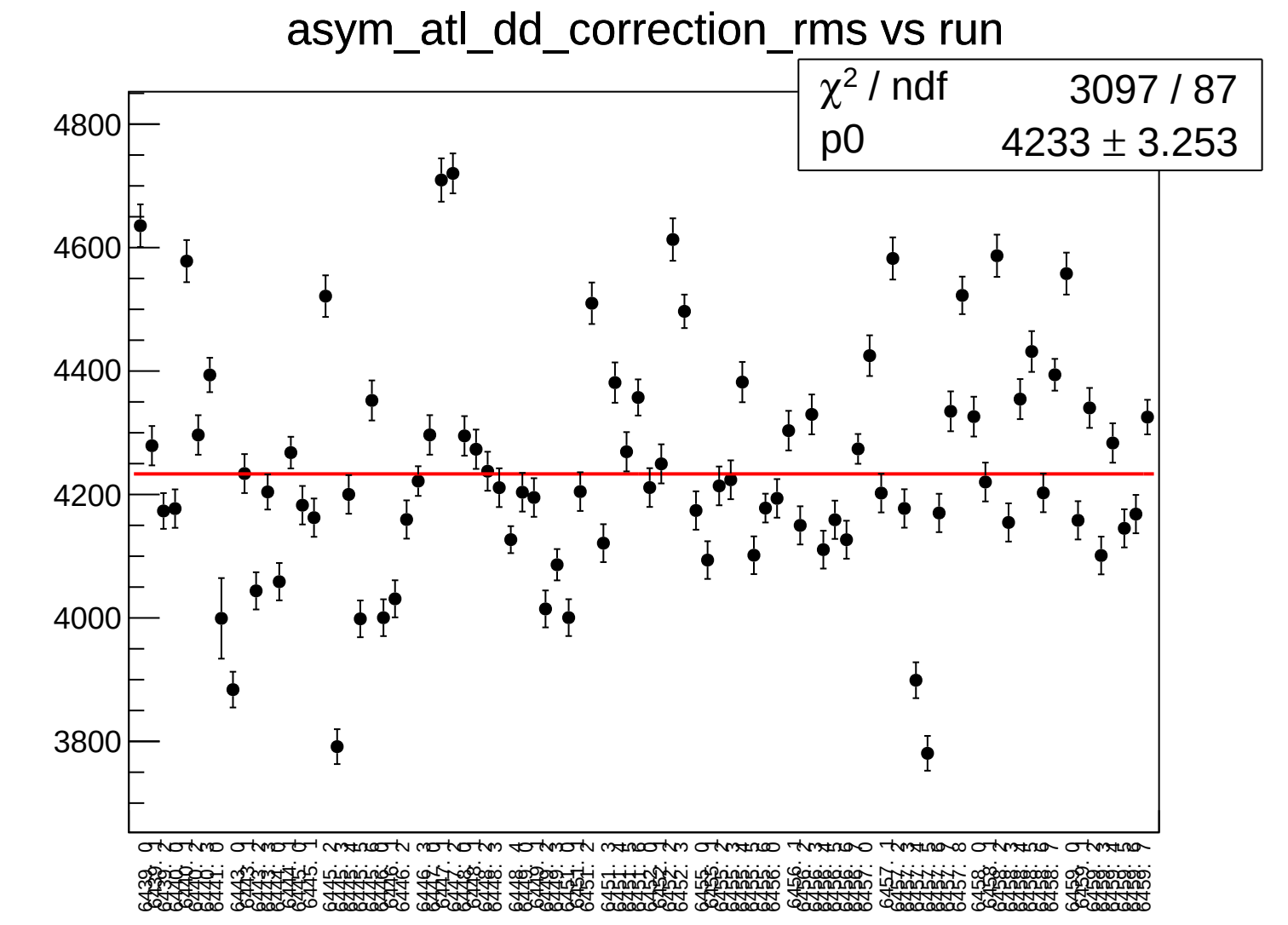

reg_asym_atl_dd_mean vs run
×10^3
χ² / ndf 97.07 / 87
p0 −338.3 ± 2057
pull
Entries 88
Mean −5868
Std Dev 5907

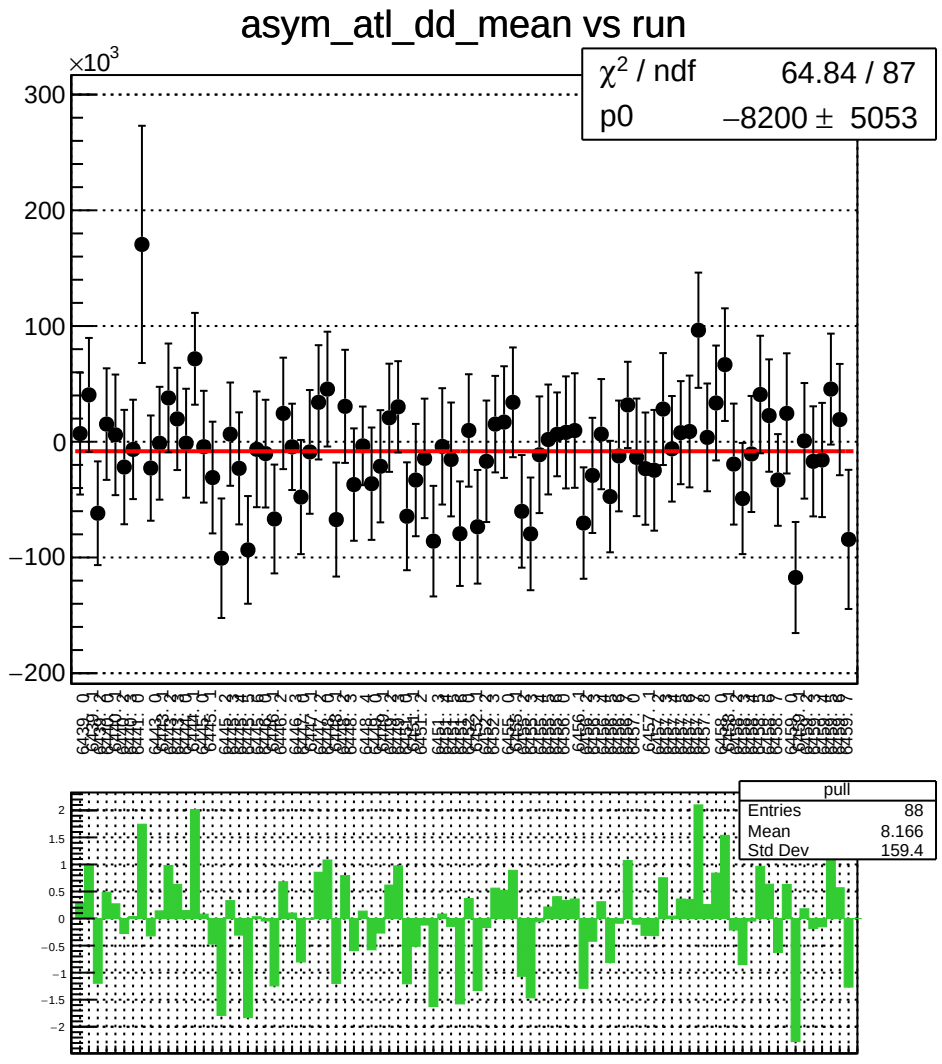

pull1D
Entries 88
Mean 0.0008144
Std Dev 1.05

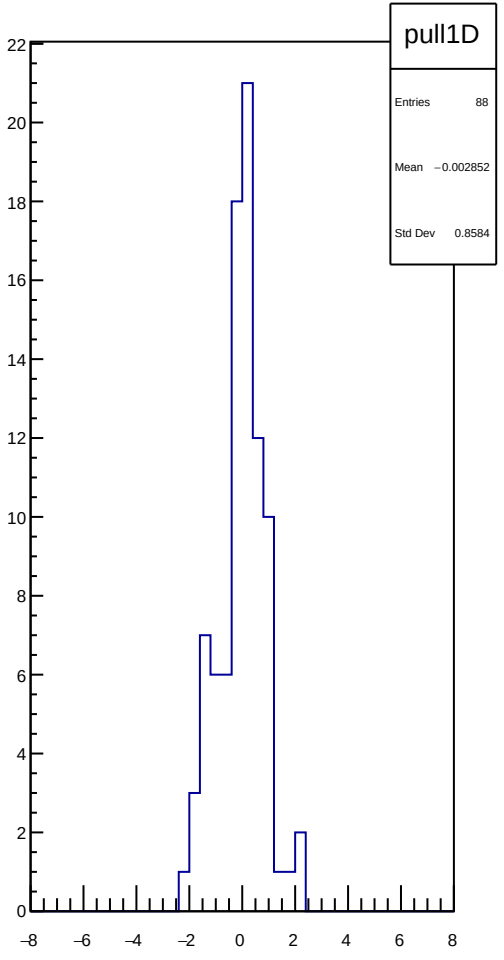

reg_asym_atl_dd_rms vs run
χ^2 / ndf 9255 / 87
p0 1890 ± 1.455
5000
4500
4000
3500
3000
2500
2000

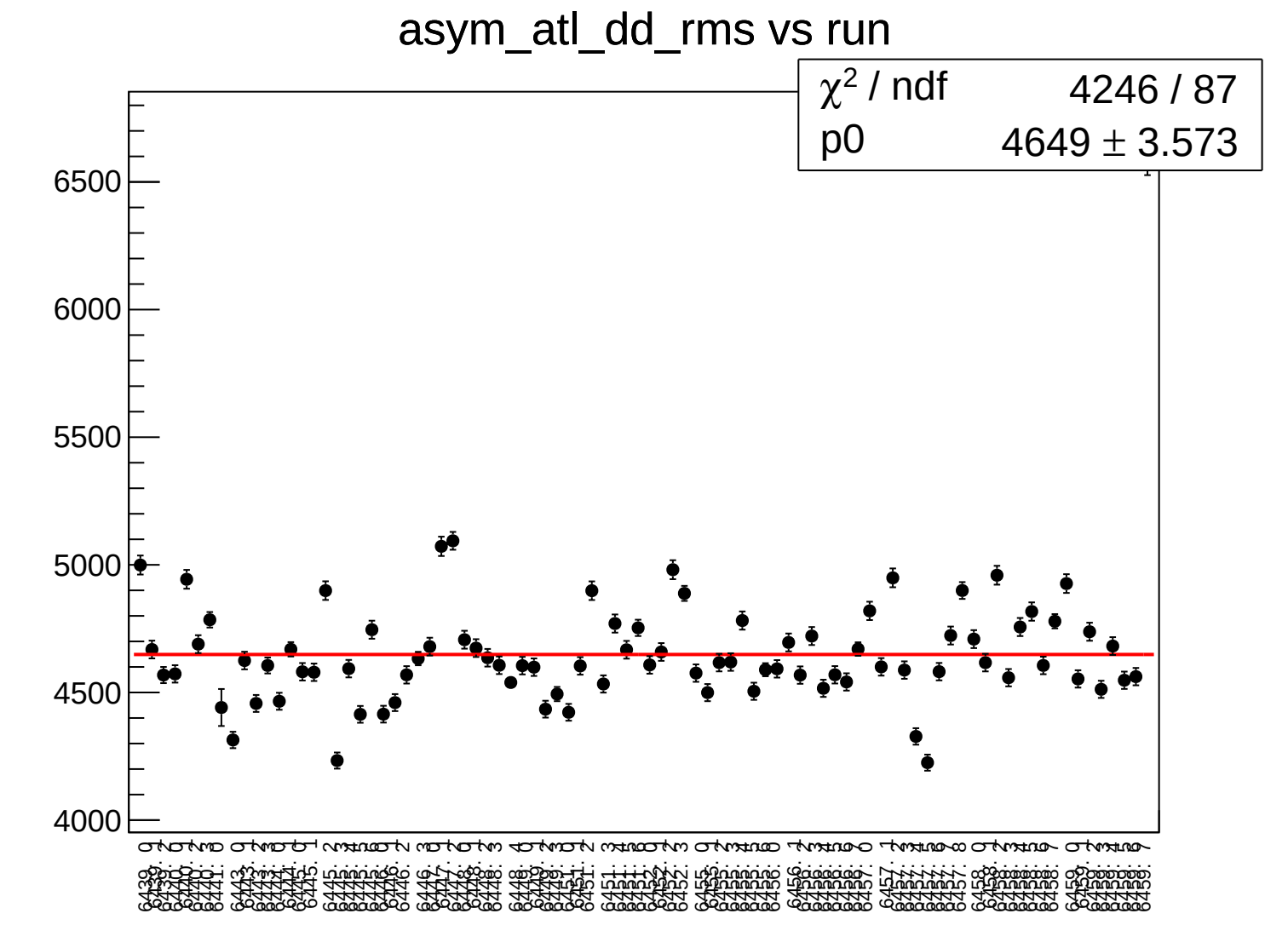

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 69.51 / 87
p0 7993 ± 4600
100
0
−100
−200
−300
pull
Entries 88
Mean −8.687e+04
Std Dev 8.693e+04
2
1
0
−1
−2

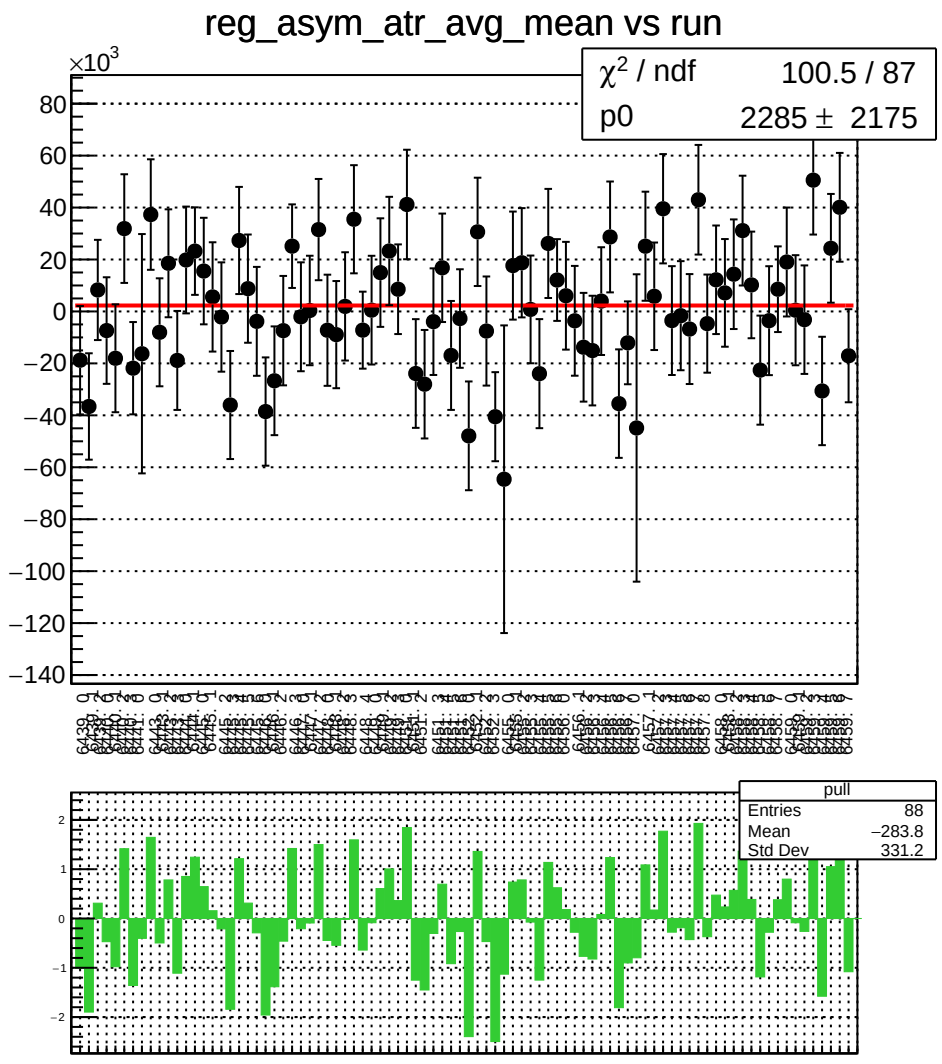

pull1D
Entries 88
Mean 2.613e−05
Std Dev 0.8888
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

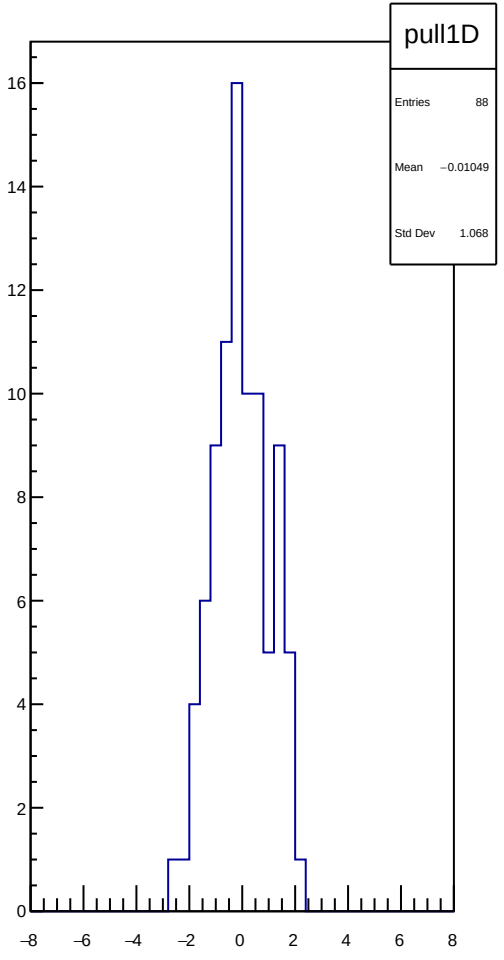

asym_atl_dd_correction_rms vs run
χ² / ndf 3097 / 87
p0 4233 ± 3.253
4800
4600
4400
4200
4000
3800

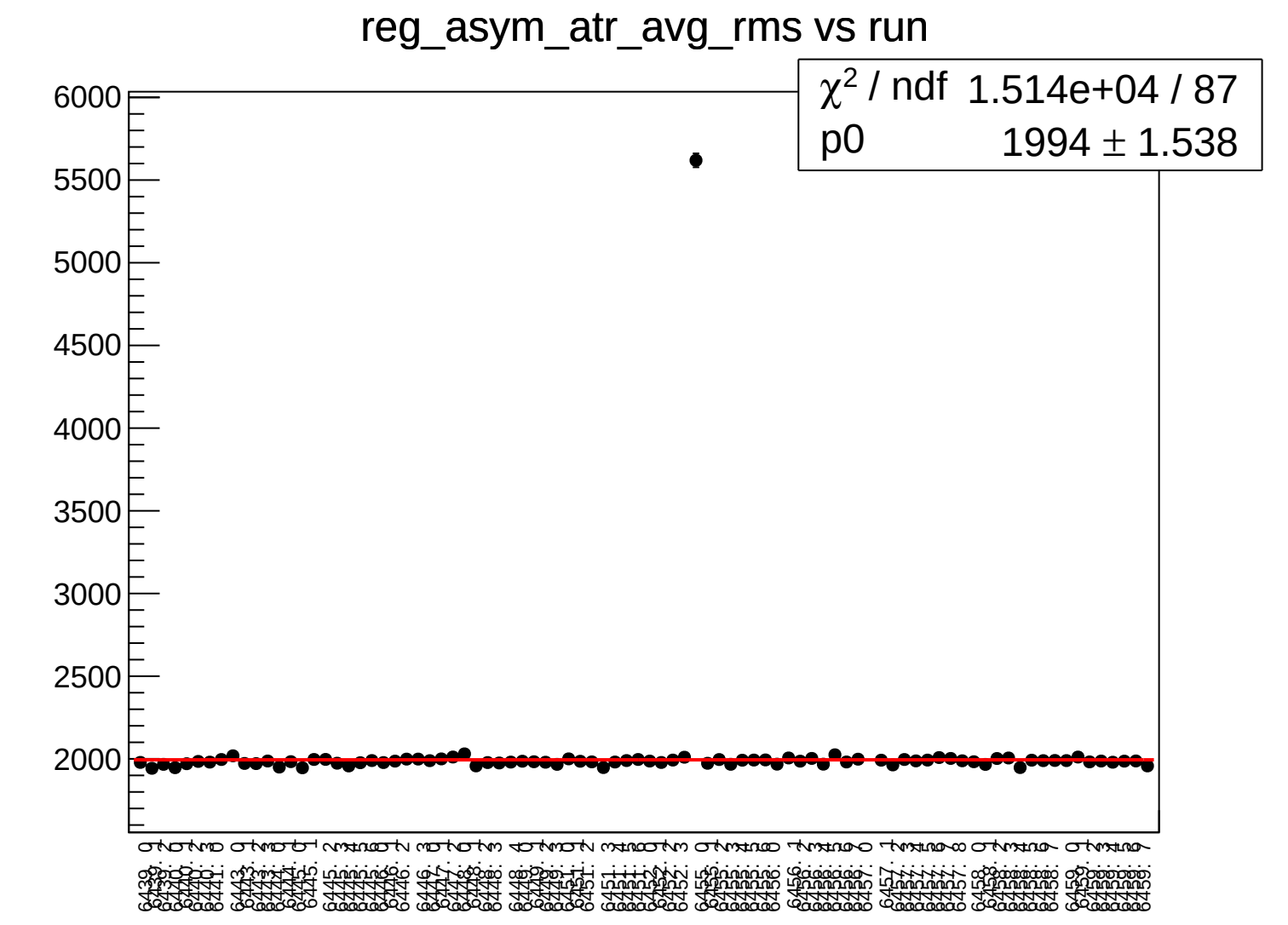

asym_atl_dd_mean vs run
×10^3
χ² / ndf 64.84 / 87
p0 −8200 ± 5053
pull
Entries 88
Mean 8.166
Std Dev 159.4

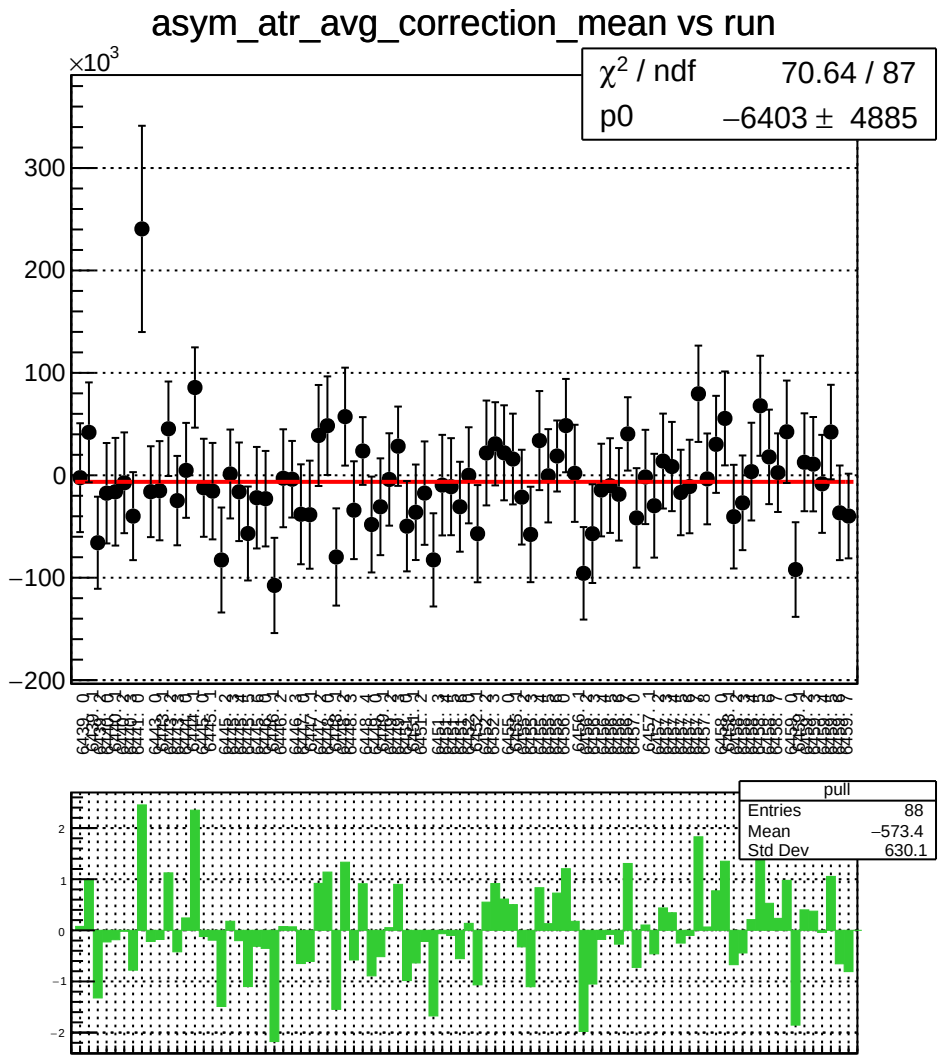

pull1D
Entries 88
Mean −0.002852
Std Dev 0.8584

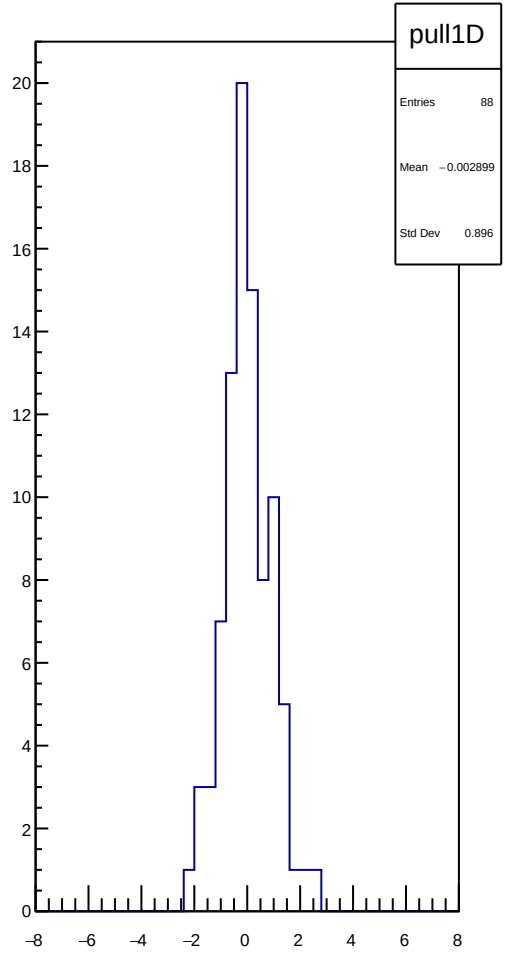

asym_atl_dd_rms vs run
χ² / ndf 4246 / 87
p0 4649 ± 3.573
6500
6000
5500
5000
4500
4000

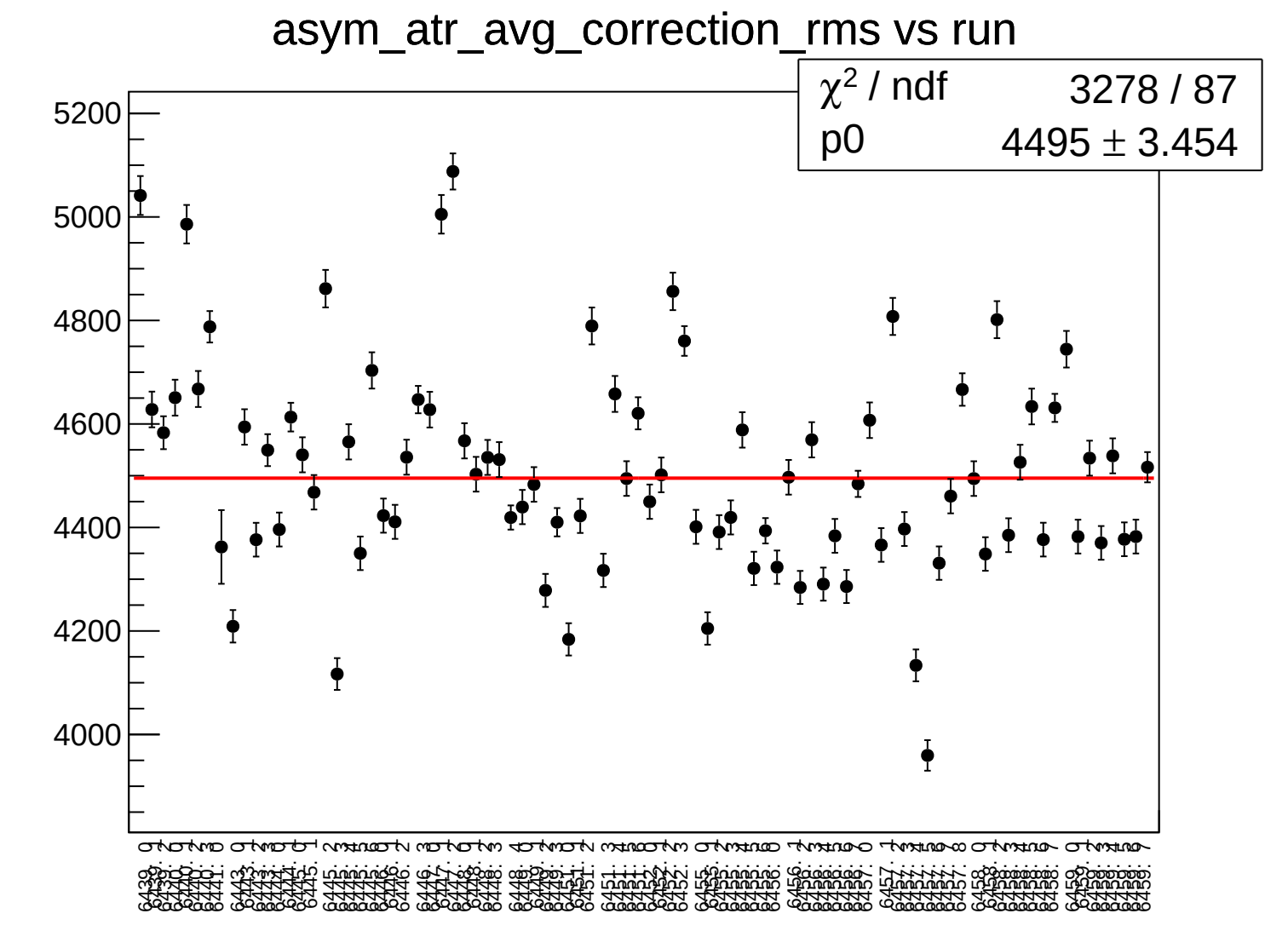

reg_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 100.5 / 87
p0 2285 ± 2175
pull
Entries 88
Mean −283.8
Std Dev 331.2

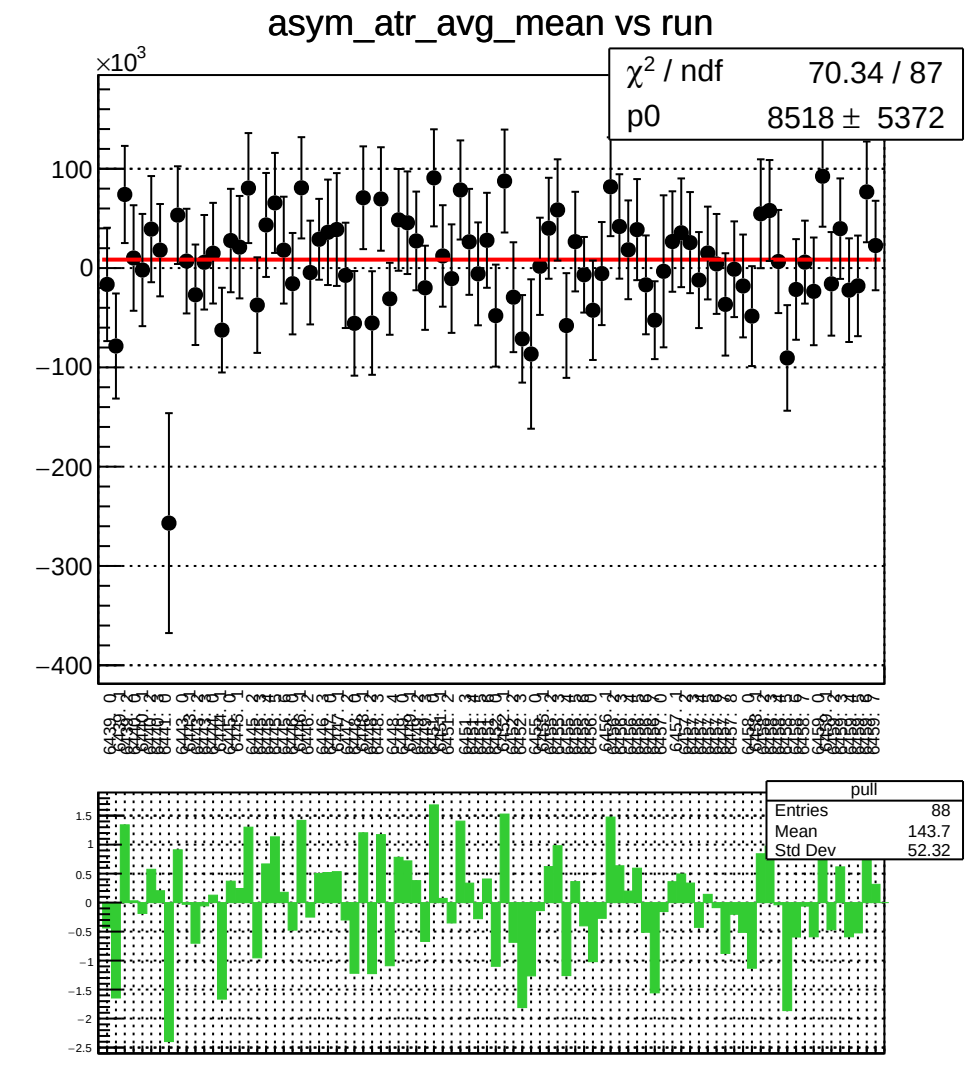

pull1D
Entries 88
Mean −0.01049
Std Dev 1.068

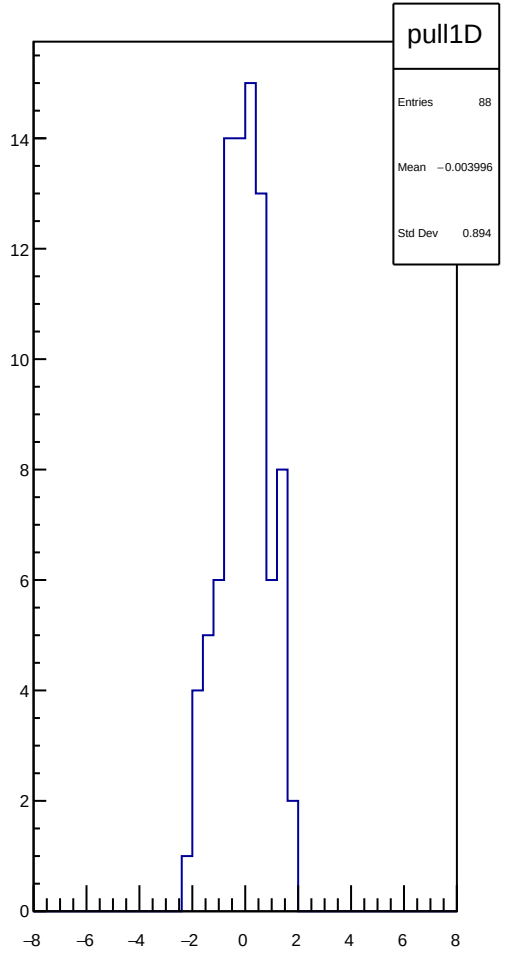

reg_asym_atr_avg_rms vs run
χ² / ndf 1.514e+04 / 87
p0 1994 ± 1.538
6000
5500
5000
4500
4000
3500
3000
2500
2000

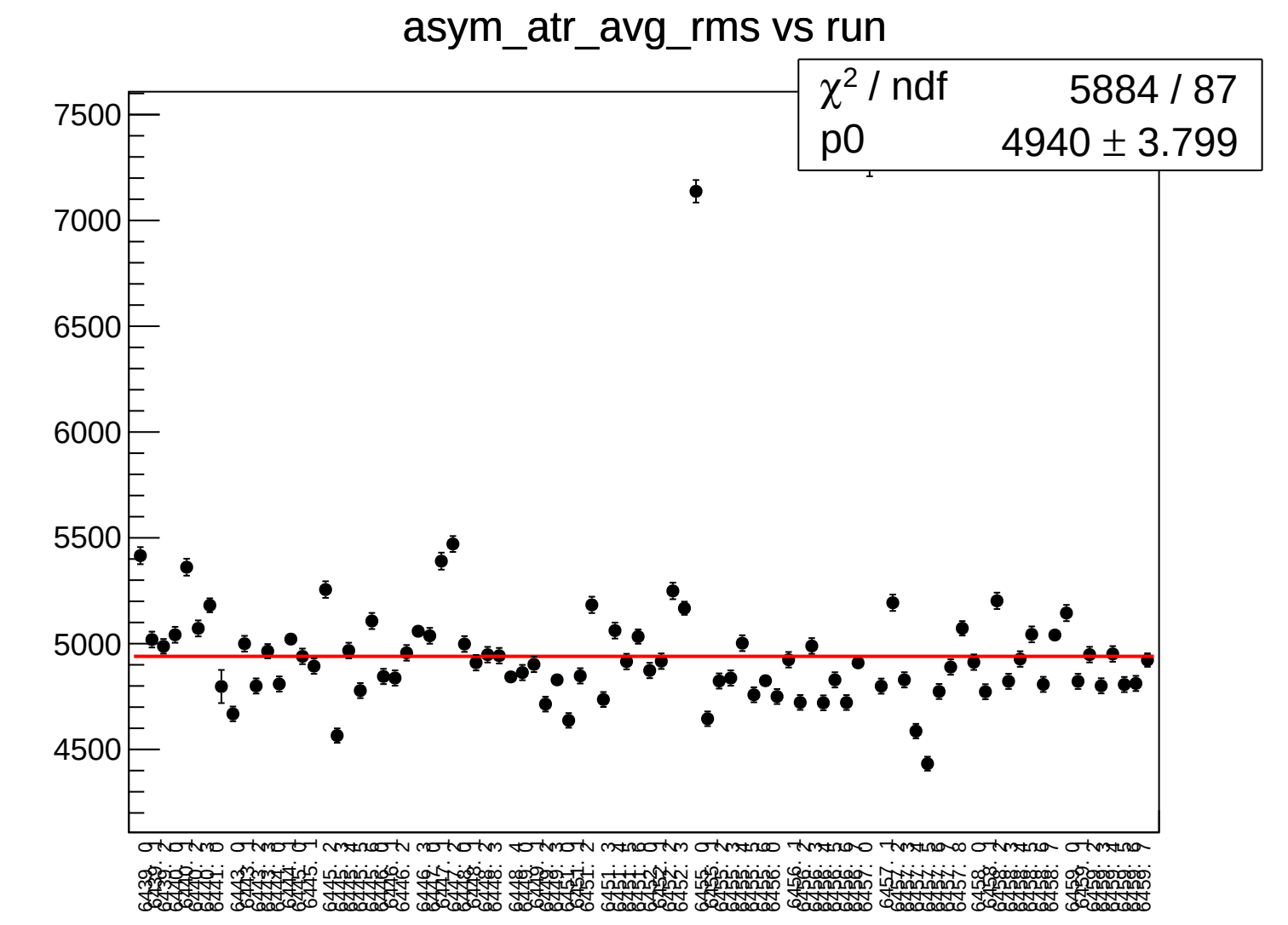

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 70.64 / 87
p0 −6403 ± 4885
300
200
100
0
−100
−200
pull
Entries 88
Mean −573.4
Std Dev 630.1
2
1
0
−1
−2

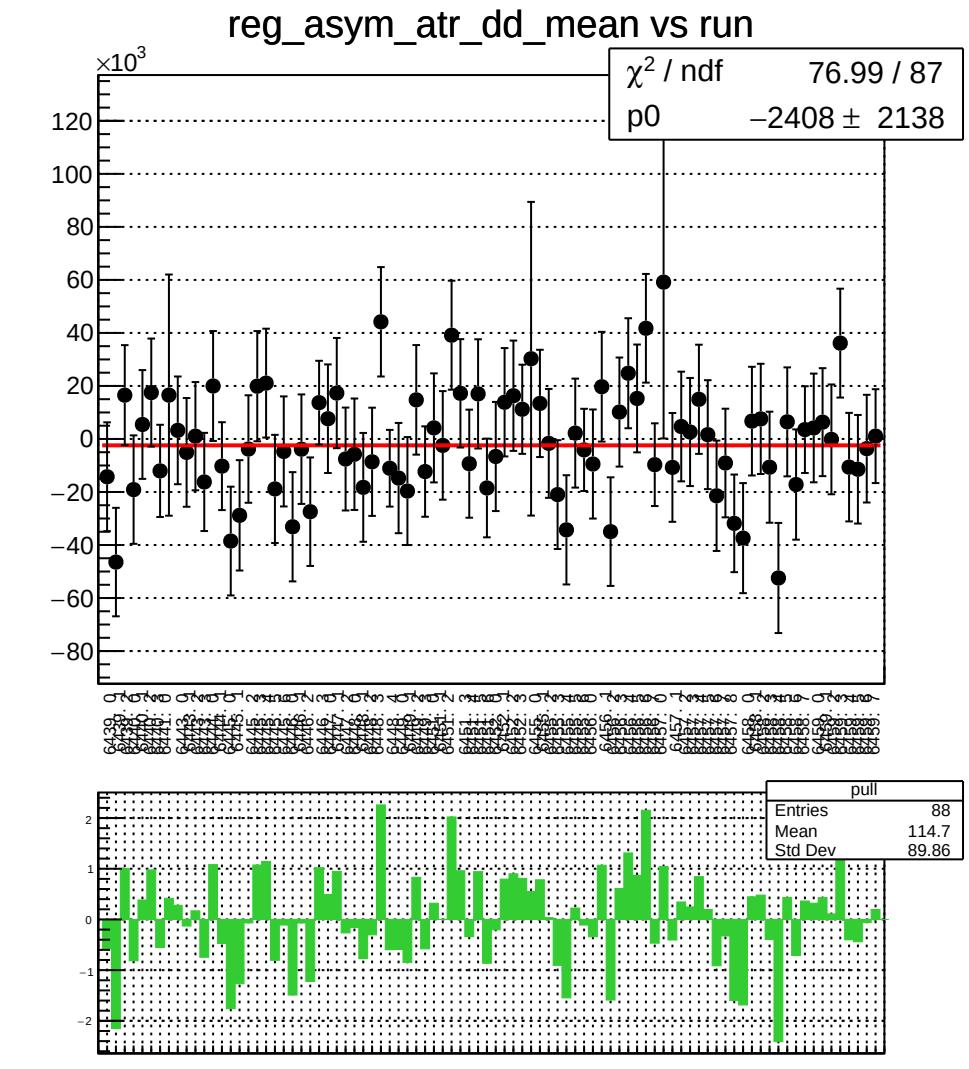

pull1D
Entries 88
Mean −0.002899
Std Dev 0.896
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

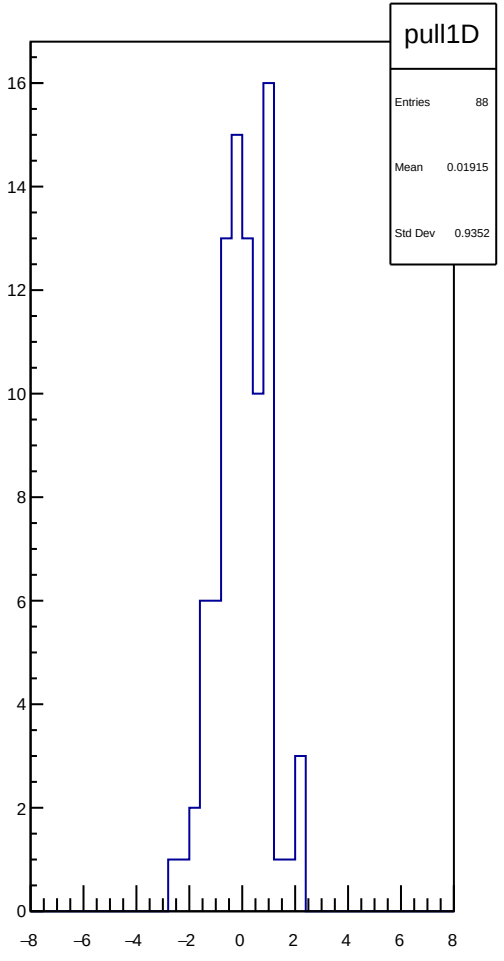

asym_atr_avg_correction_rms vs run
χ² / ndf 3278 / 87
p0 4495 ± 3.454
5200
5000
4800
4600
4400
4200
4000

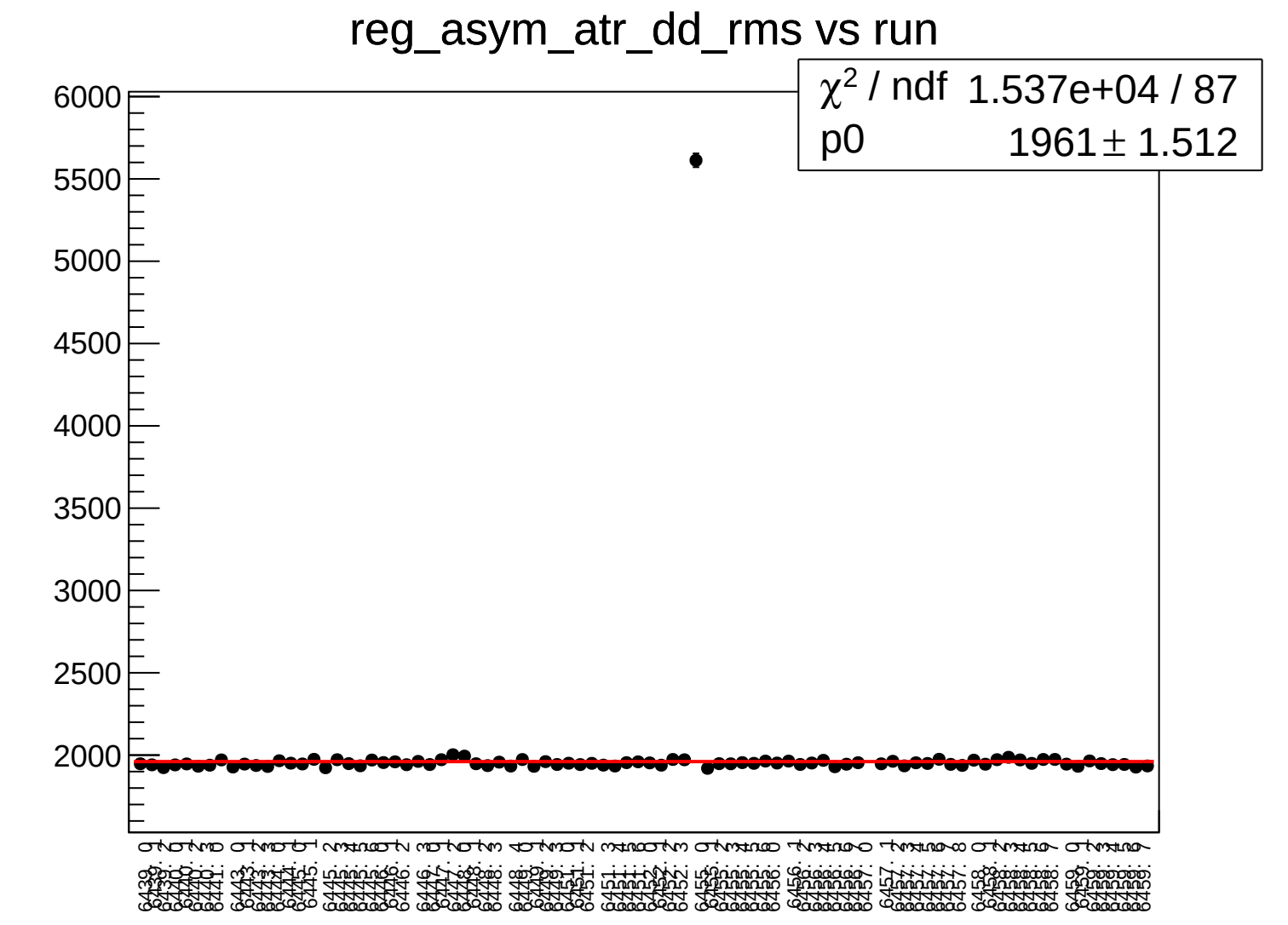

asym_atr_avg_mean vs run
×10^3
χ² / ndf 70.34 / 87
p0 8518 ± 5372
100
0
−100
−200
−300
−400
pull
Entries 88
Mean 143.7
Std Dev 52.32
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

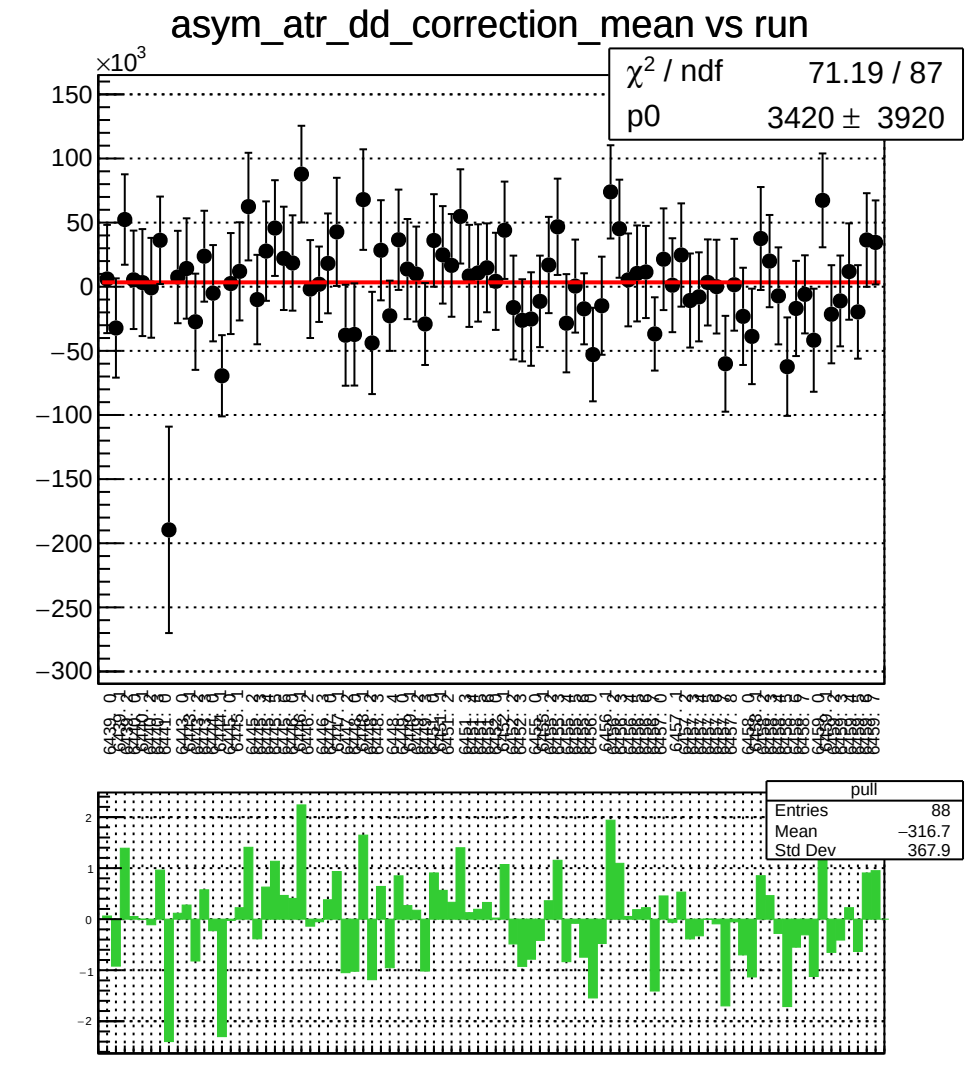

pull1D
Entries 88
Mean −0.003996
Std Dev 0.894
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

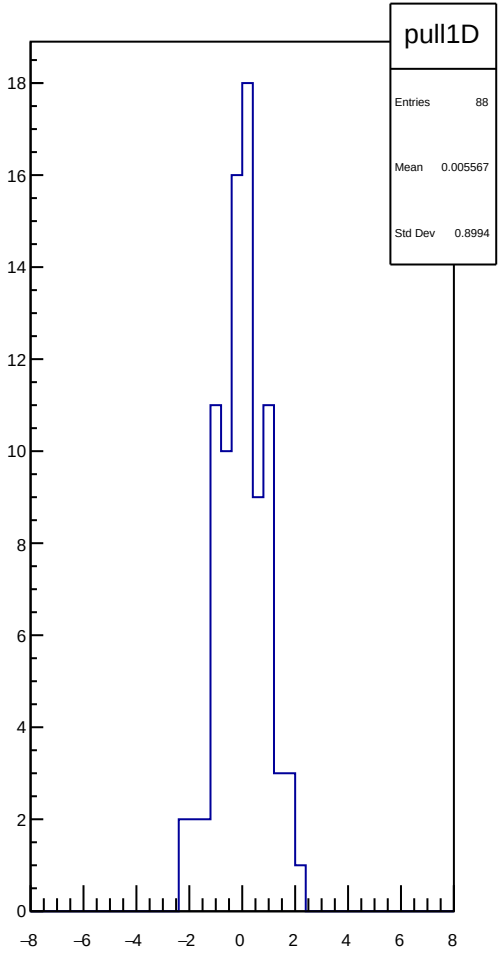

asym_atr_avg_rms vs run
χ² / ndf 5884 / 87
p0 4940 ± 3.799
7500
7000
6500
6000
5500
5000
4500

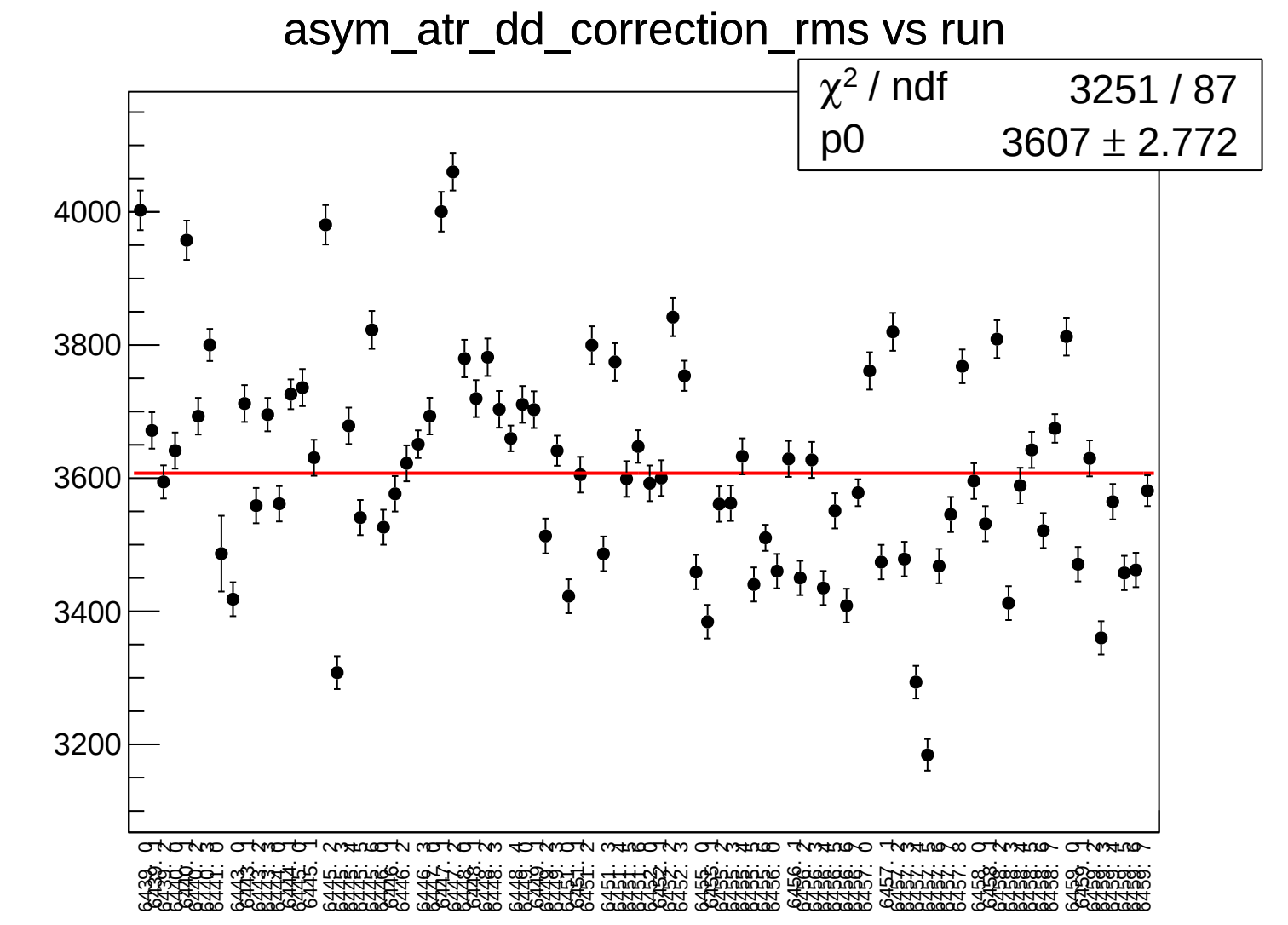

reg_asym_atr_dd_mean vs run
×10^3
χ² / ndf 76.99 / 87
p0 −2408 ± 2138
pull
Entries 88
Mean 114.7
Std Dev 89.86

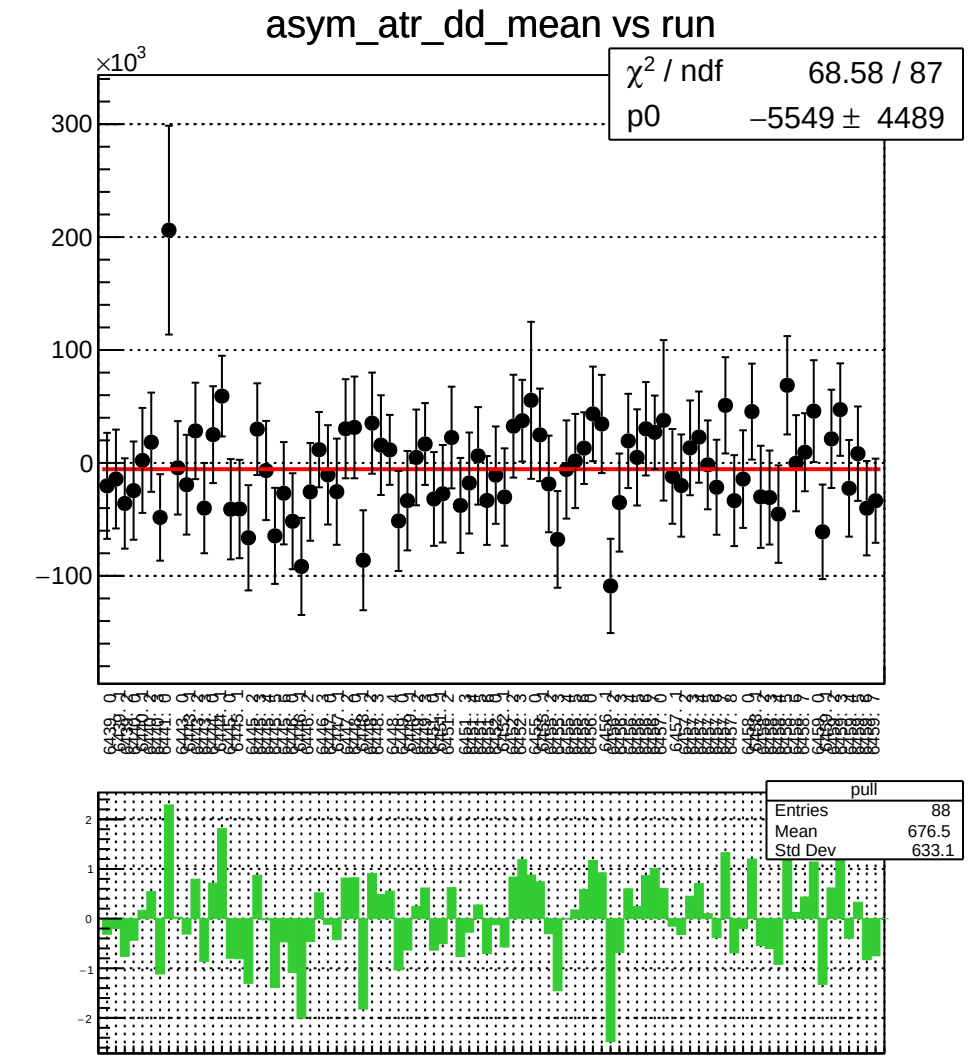

pull1D
Entries 88
Mean 0.01915
Std Dev 0.9352

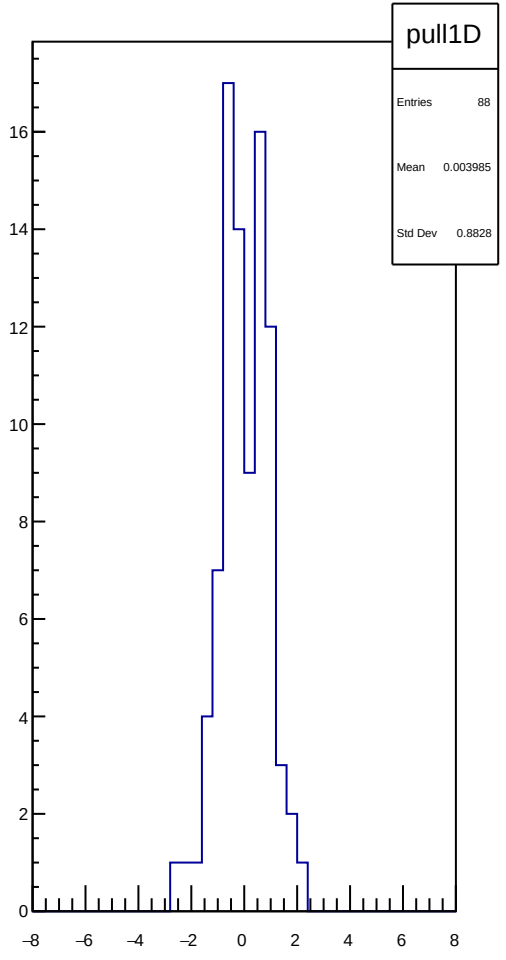

reg_asym_atr_dd_rms vs run
χ² / ndf 1.537e+04 / 87
p0 1961 ± 1.512
6000
5500
5000
4500
4000
3500
3000
2500
2000

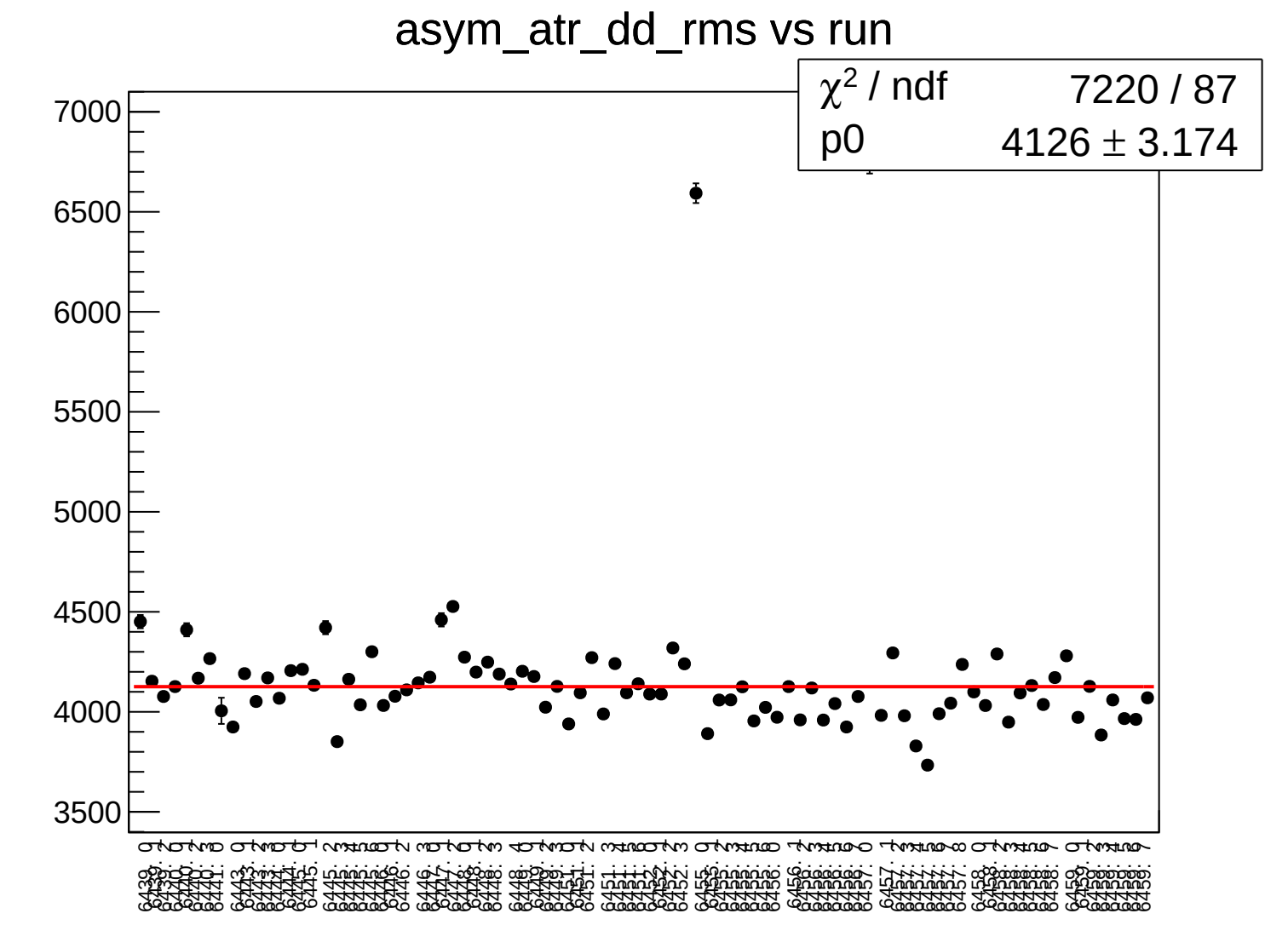

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 71.19 / 87
p0 3420 ± 3920
150
100
50
0
−50
−100
−150
−200
−250
−300
pull
Entries 88
Mean −316.7
Std Dev 367.9
2
1
0
−1
−2

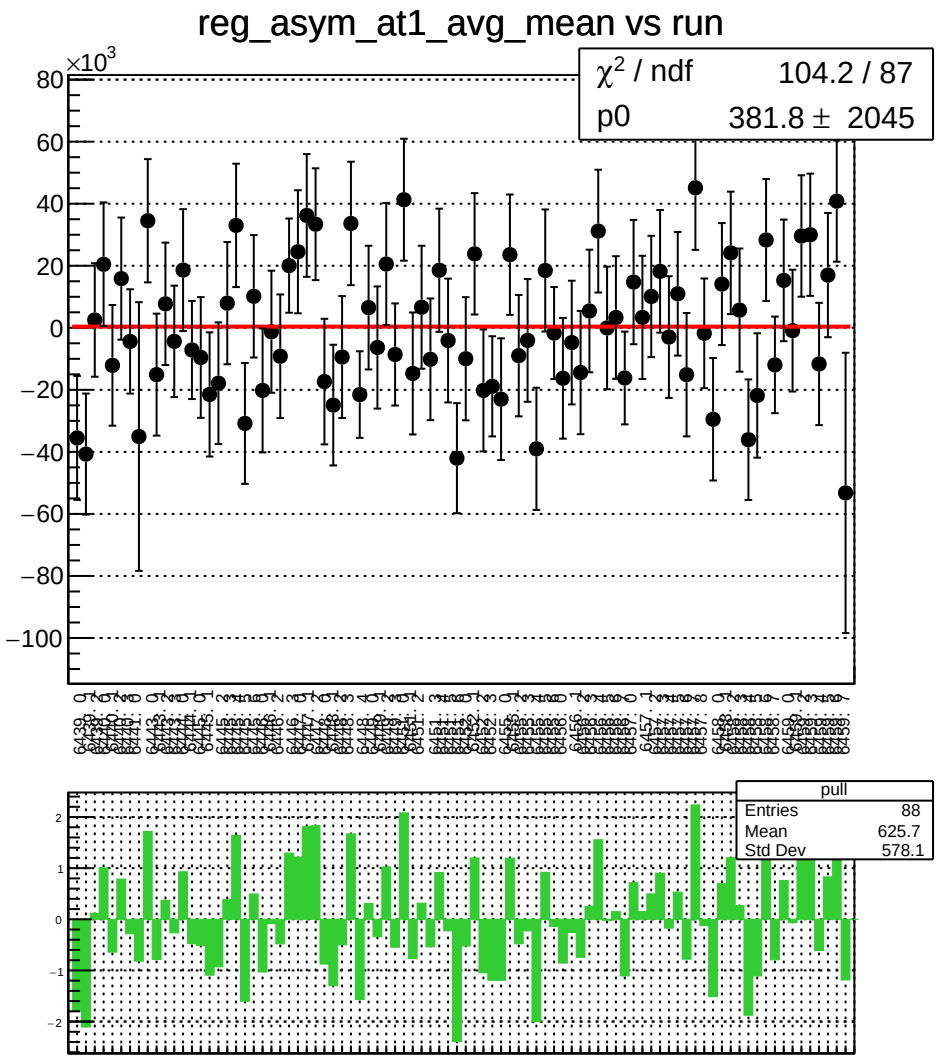

pull1D
Entries 88
Mean 0.005567
Std Dev 0.8994
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

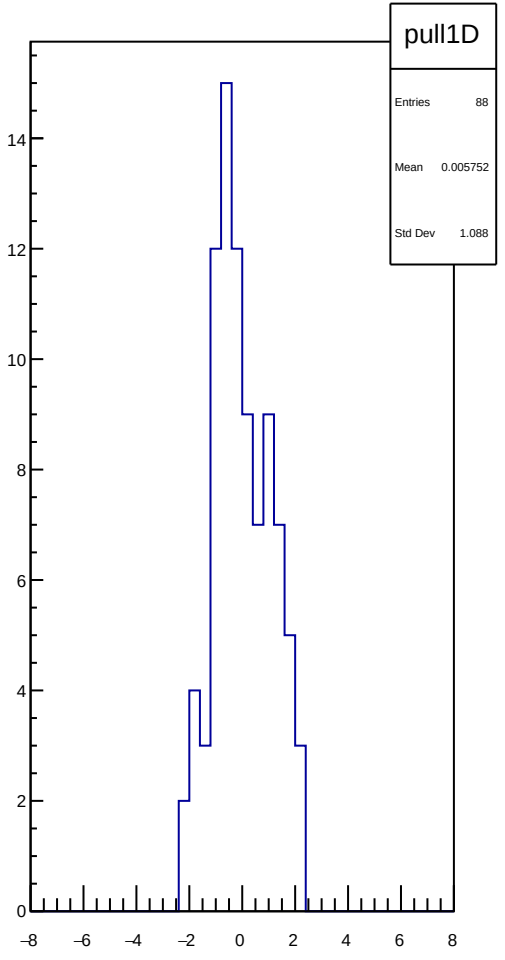

asym_atr_dd_correction_rms vs run
χ² / ndf 3251 / 87
p0 3607 ± 2.772
4000
3800
3600
3400
3200

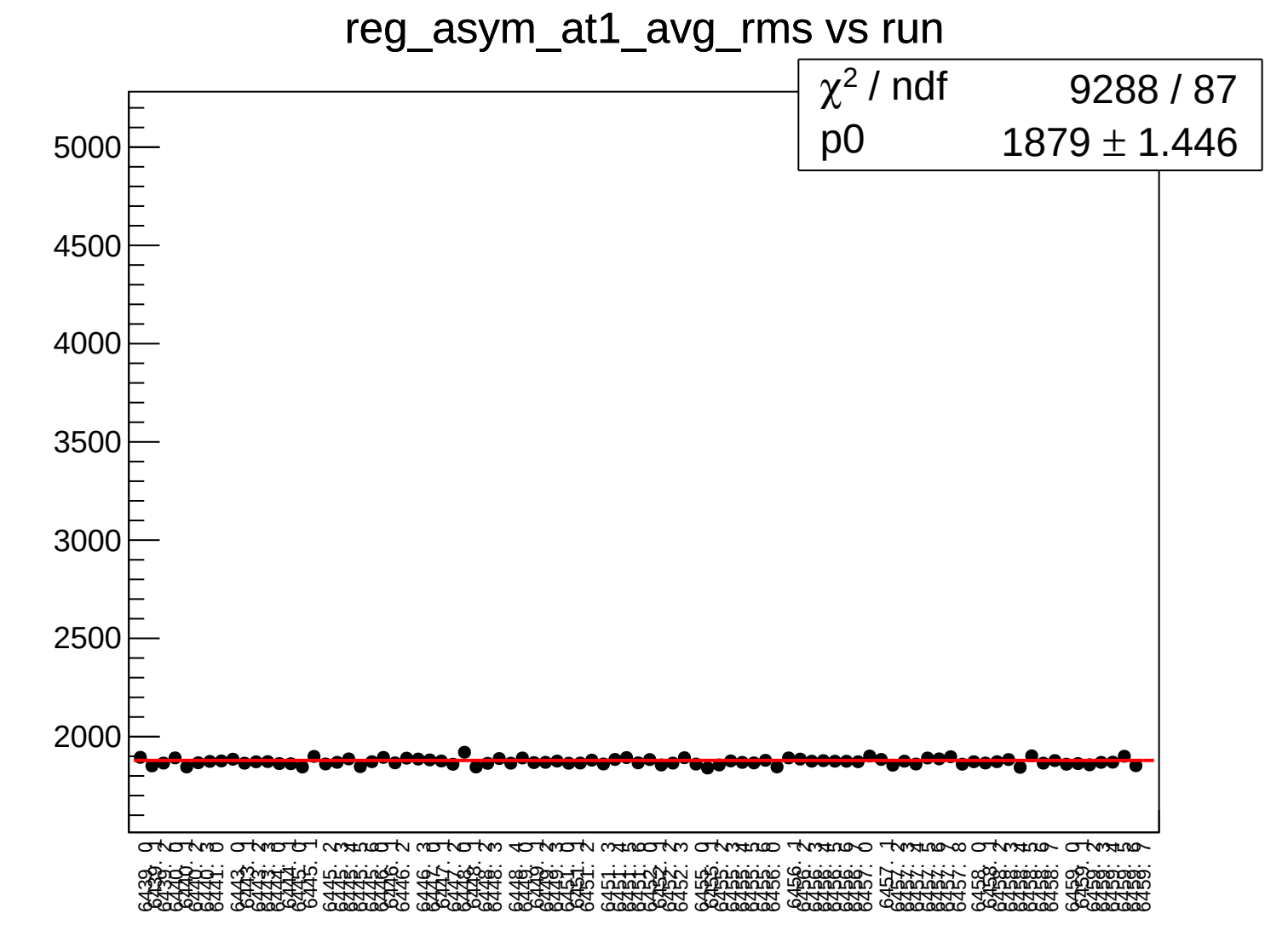

asym_atr_dd_mean vs run
×10^3
χ² / ndf 68.58 / 87
p0 −5549 ± 4489
300
200
100
0
−100
pull
Entries 88
Mean 676.5
Std Dev 633.1
2
1
0
−1
−2

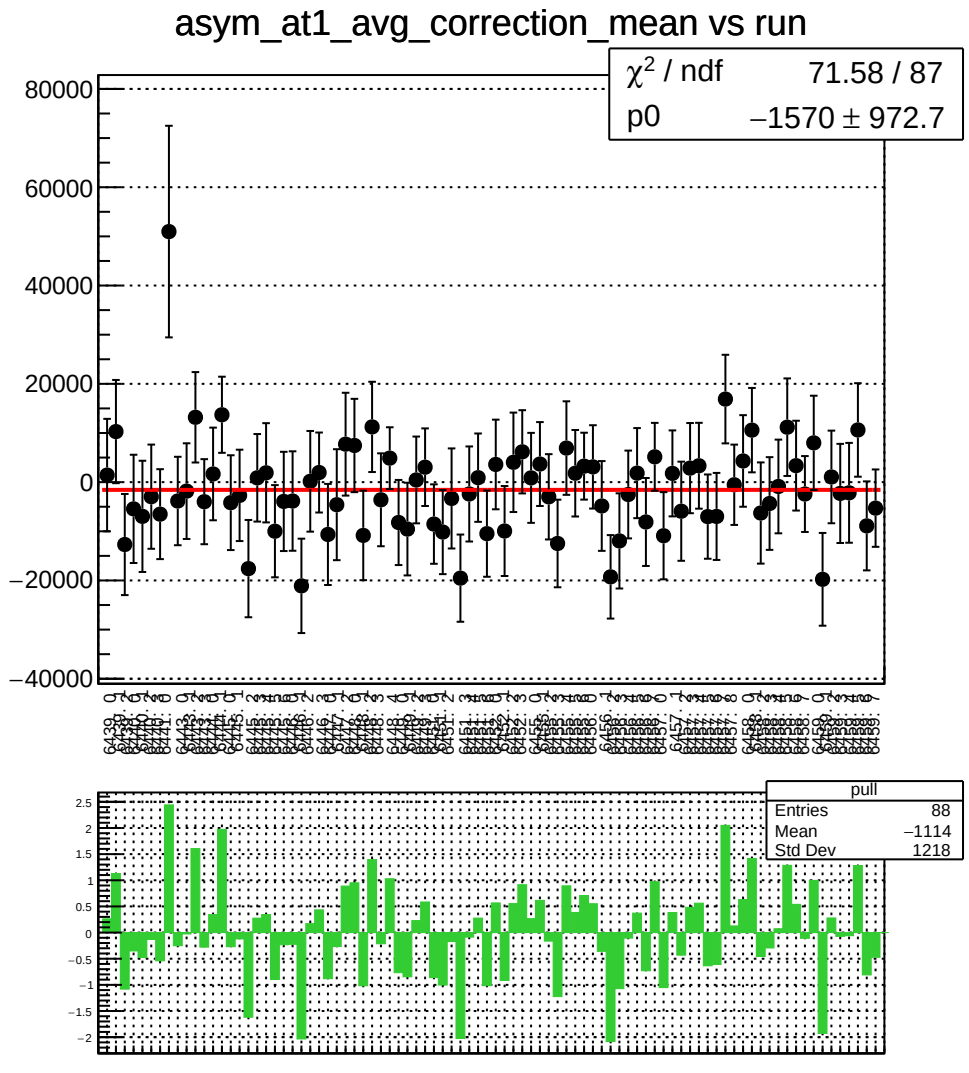

pull1D
Entries 88
Mean 0.003985
Std Dev 0.8828
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

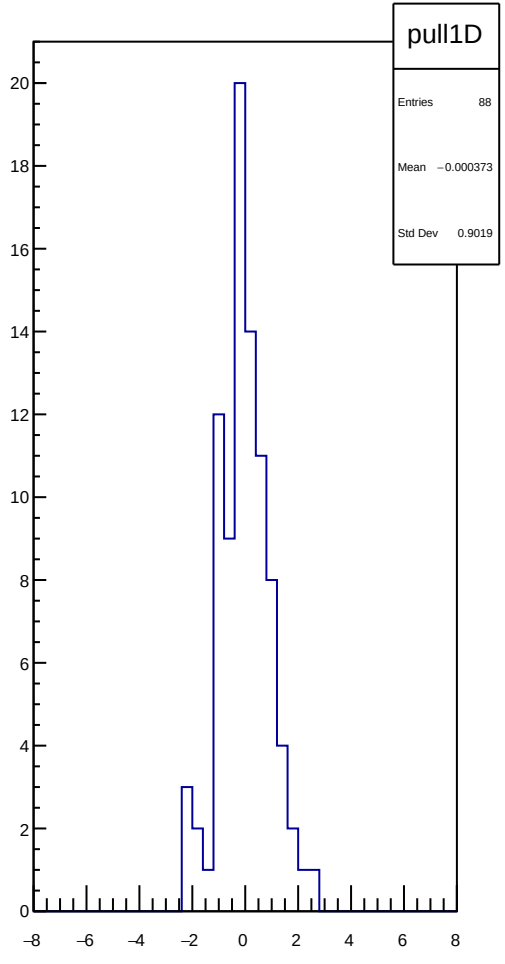

asym_atr_dd_rms vs run
χ^2 / ndf 7220 / 87
p0 4126 ± 3.174
7000
6500
6000
5500
5000
4500
4000
3500

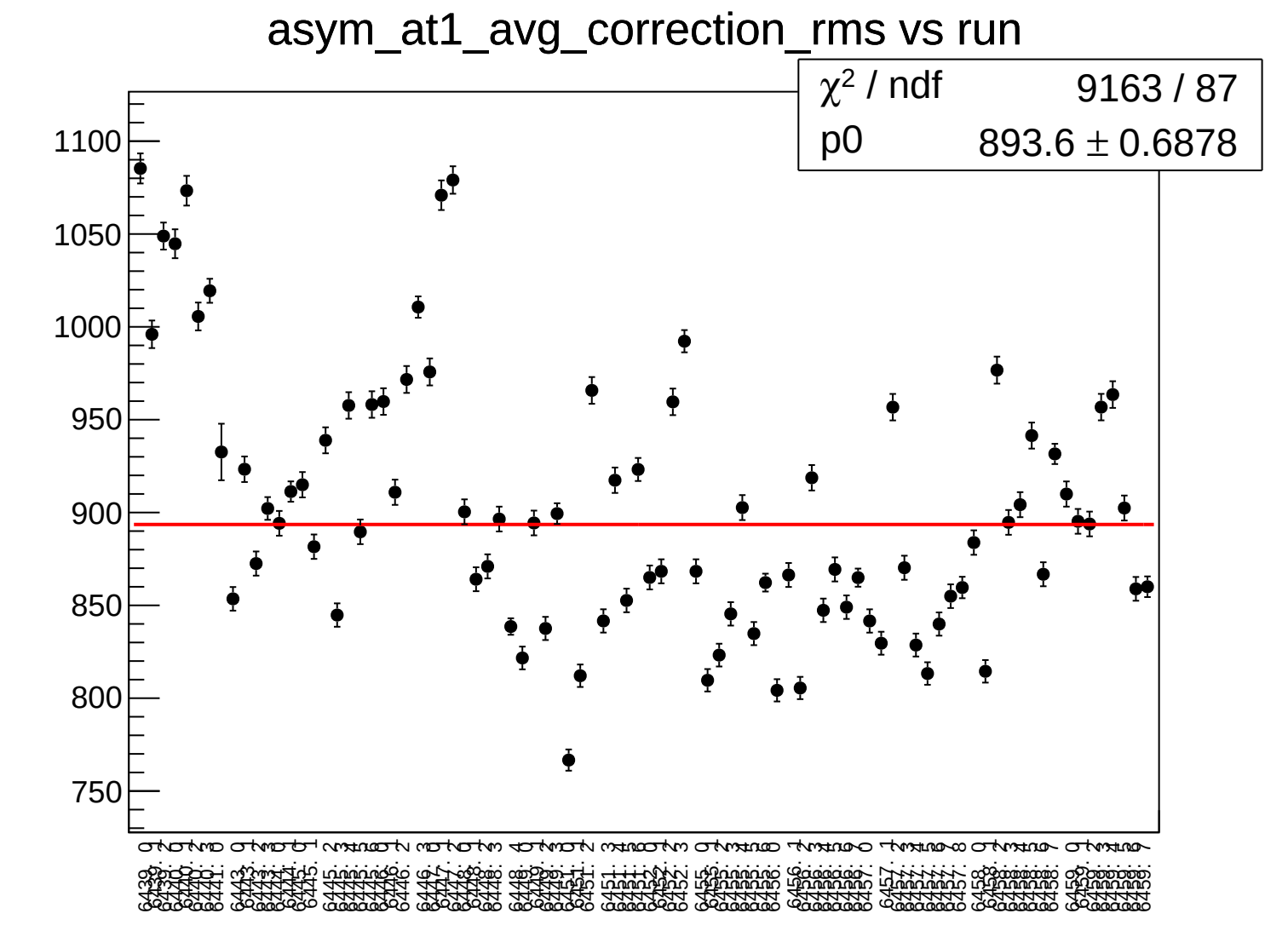

reg_asym_at1_avg_mean vs run
χ^2 / ndf 104.2 / 87
p0 381.8 ± 2045
×10^3
pull
Entries 88
Mean 625.7
Std Dev 578.1

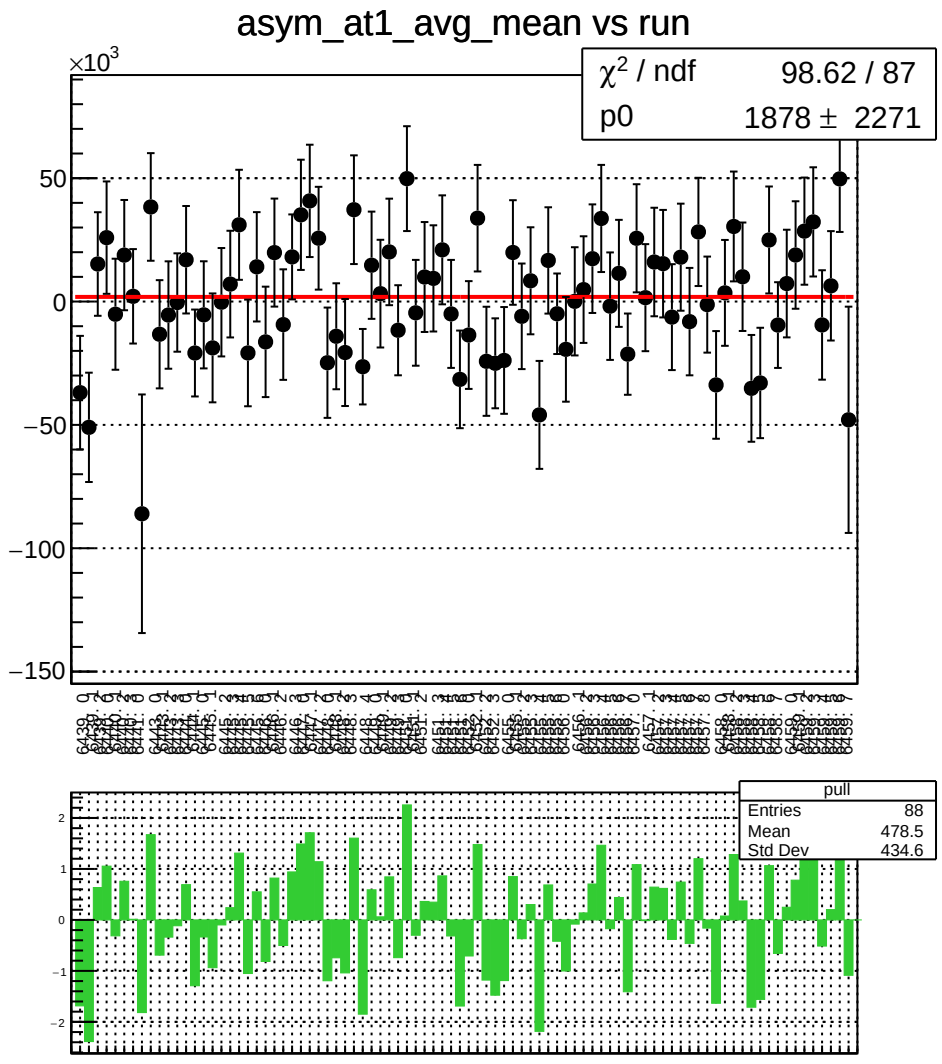

pull1D
Entries 88
Mean 0.005752
Std Dev 1.088

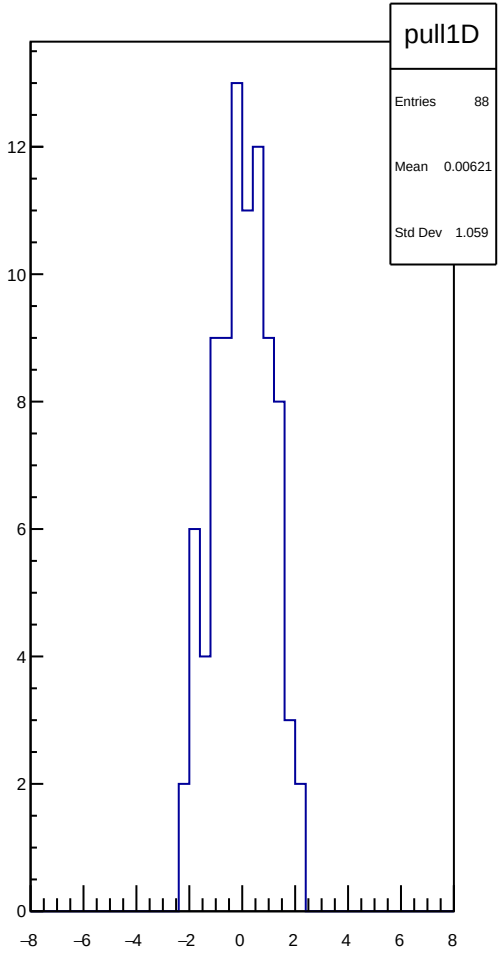

reg_asym_at1_avg_rms vs run
χ^2 / ndf 9288 / 87
p0 1879 ± 1.446
5000
4500
4000
3500
3000
2500
2000

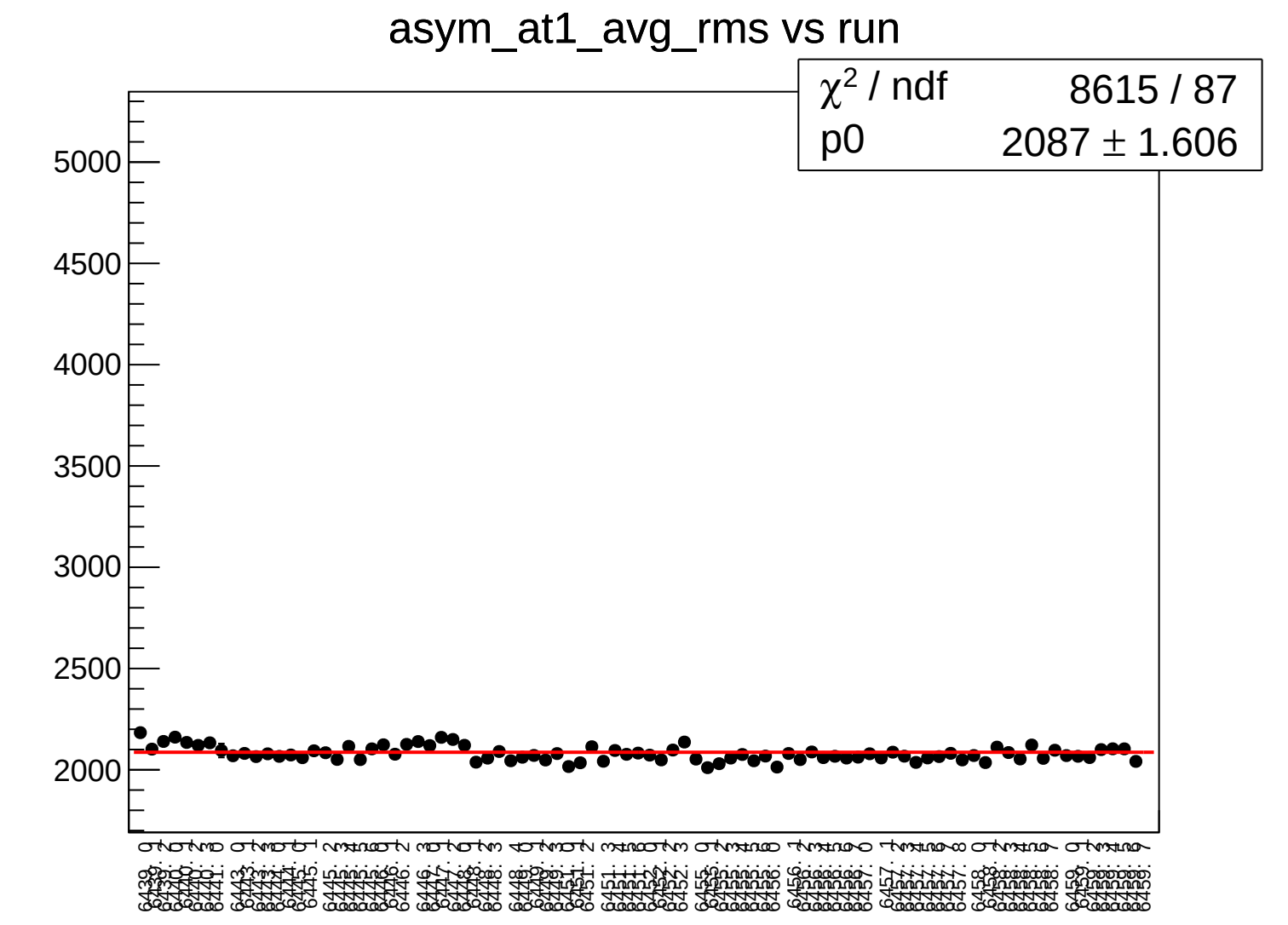

asym_at1_avg_correction_mean vs run
χ² / ndf 71.58 / 87
p0 −1570 ± 972.7
pull
Entries 88
Mean −1114
Std Dev 1218

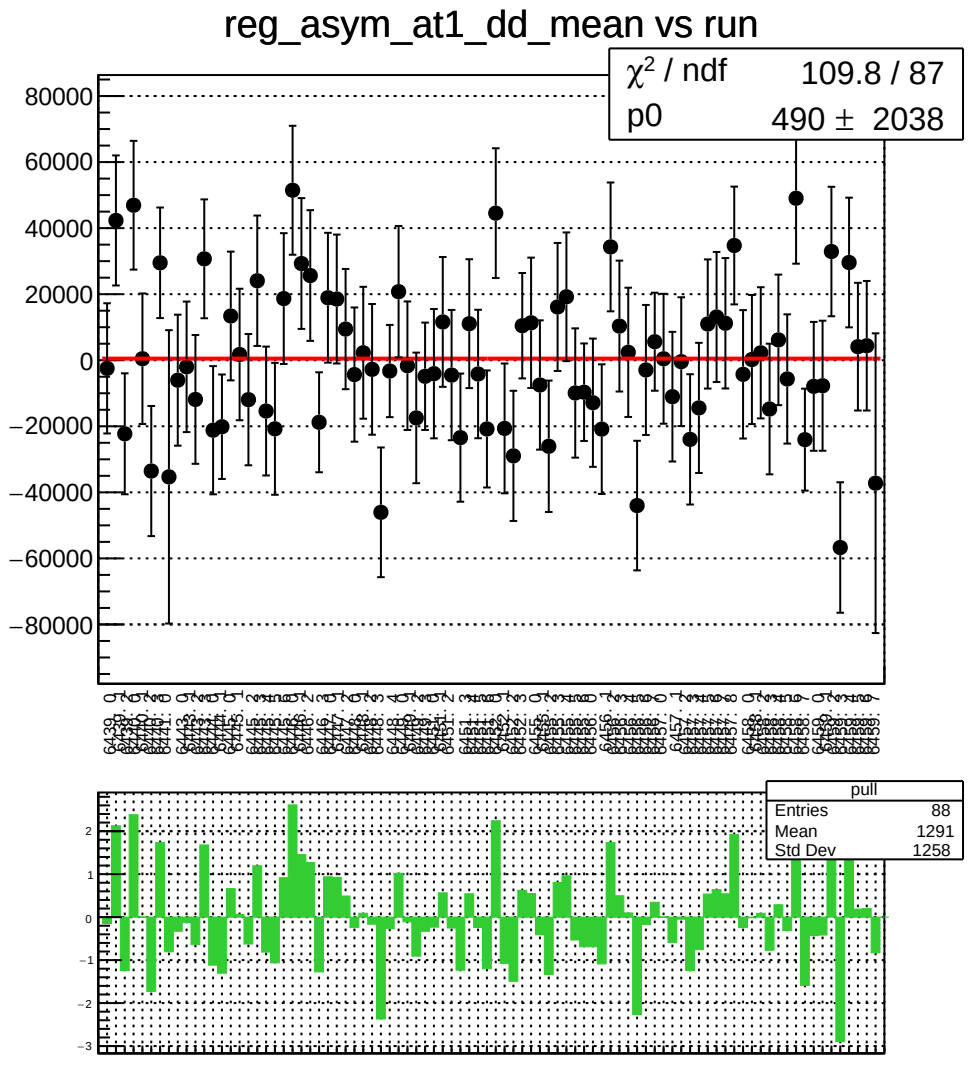

pull1D
Entries 88
Mean −0.000373
Std Dev 0.9019

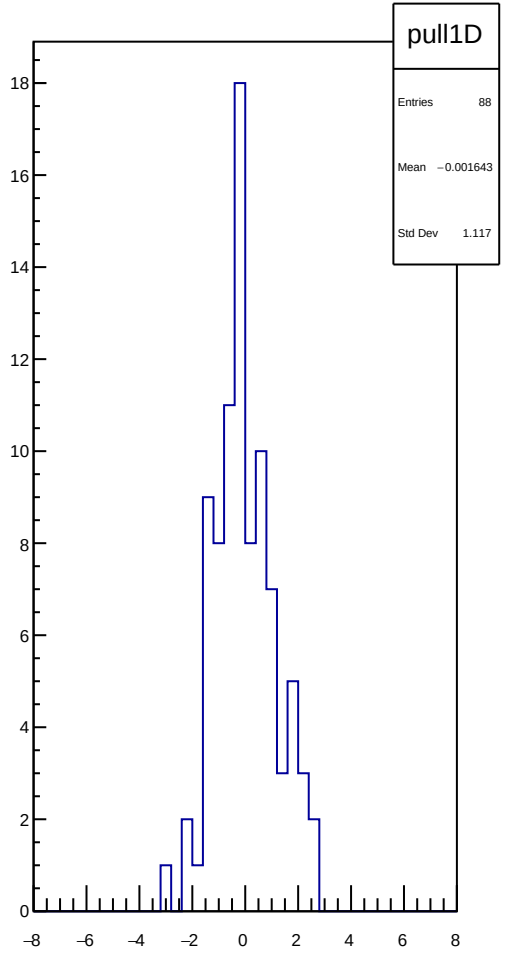

asym_at1_avg_correction_rms vs run
χ² / ndf 9163 / 87
p0 893.6 ± 0.6878
1100
1050
1000
950
900
850
800
750

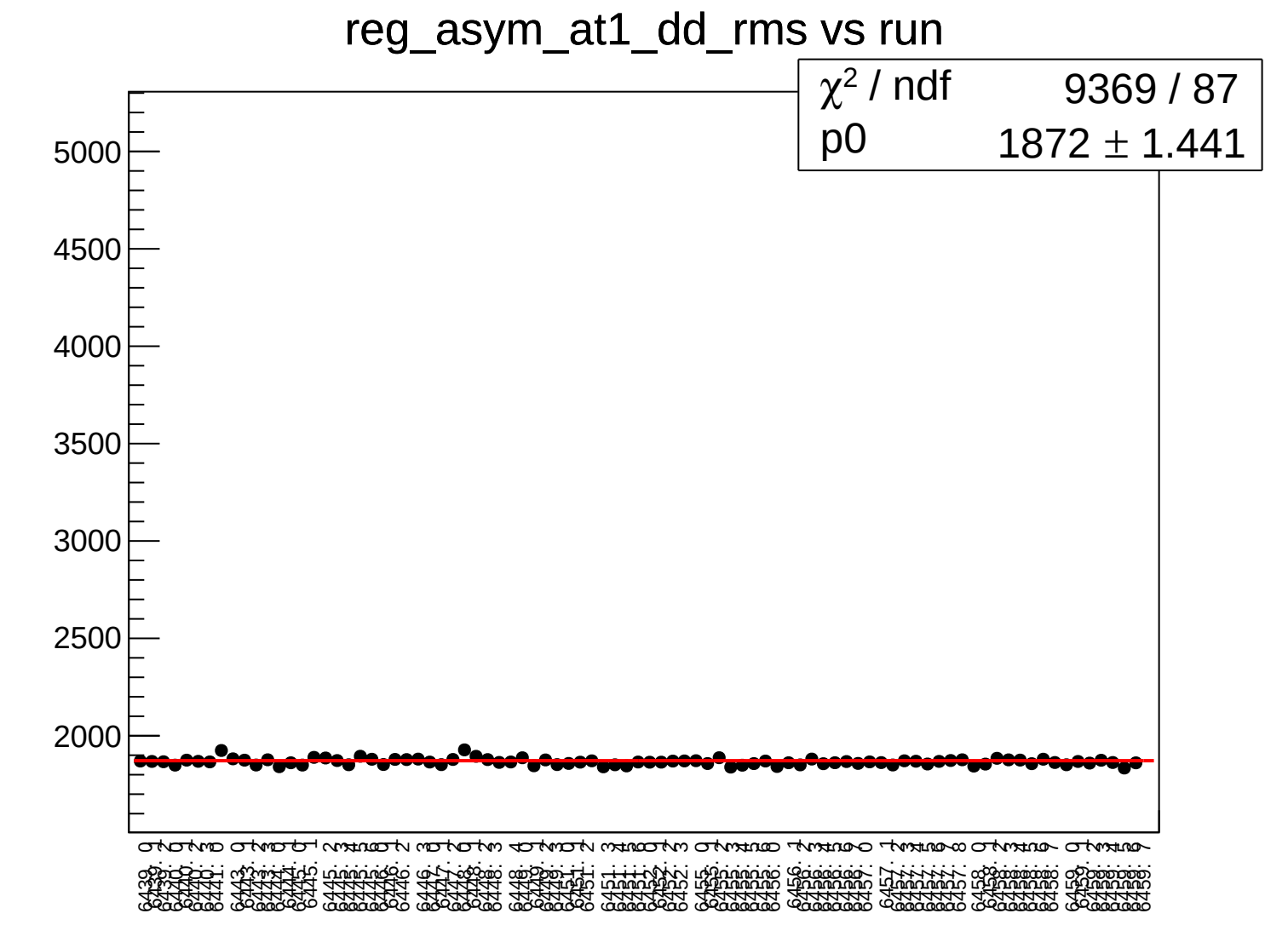

asym_at1_avg_mean vs run
×10^3
χ² / ndf 98.62 / 87
p0 1878 ± 2271
50
0
−50
−100
−150
pull
Entries 88
Mean 478.5
Std Dev 434.6
2
1
0
−1
−2

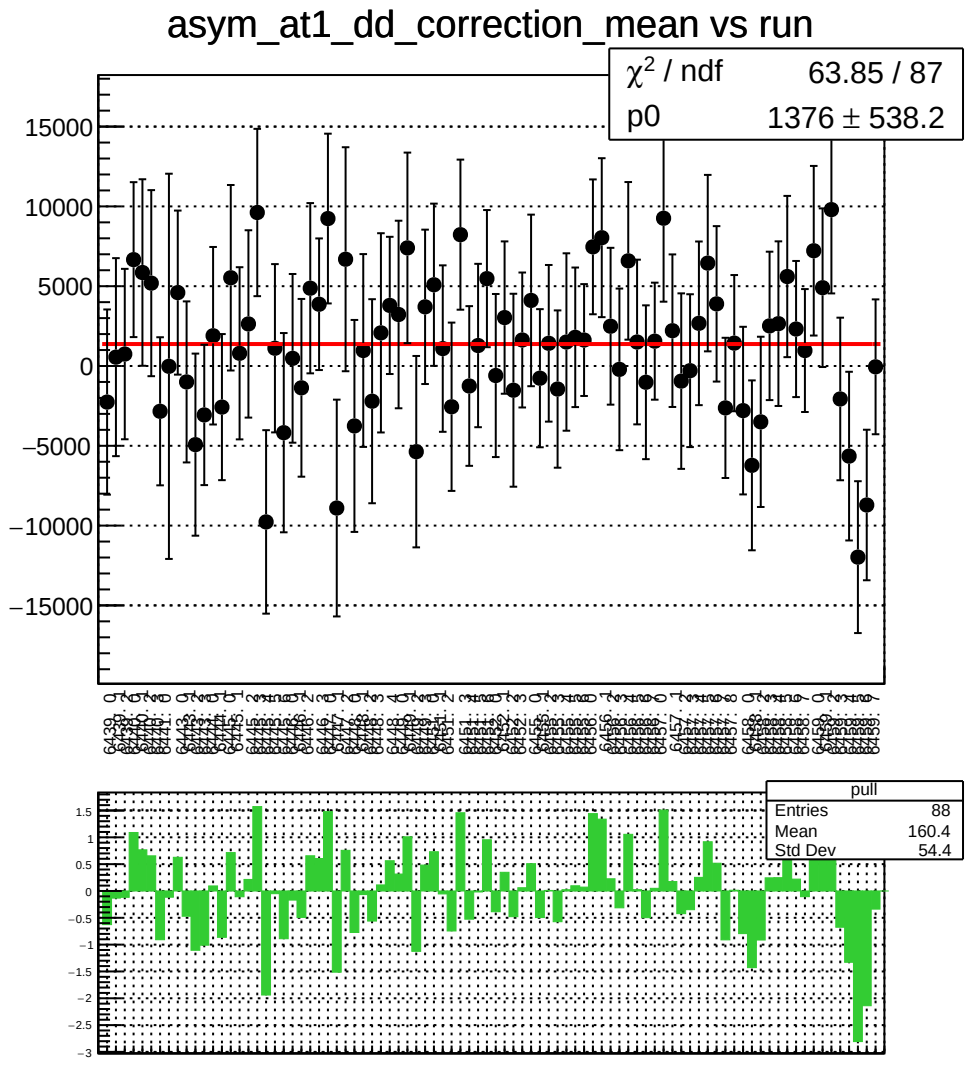

pull1D
Entries 88
Mean 0.00621
Std Dev 1.059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

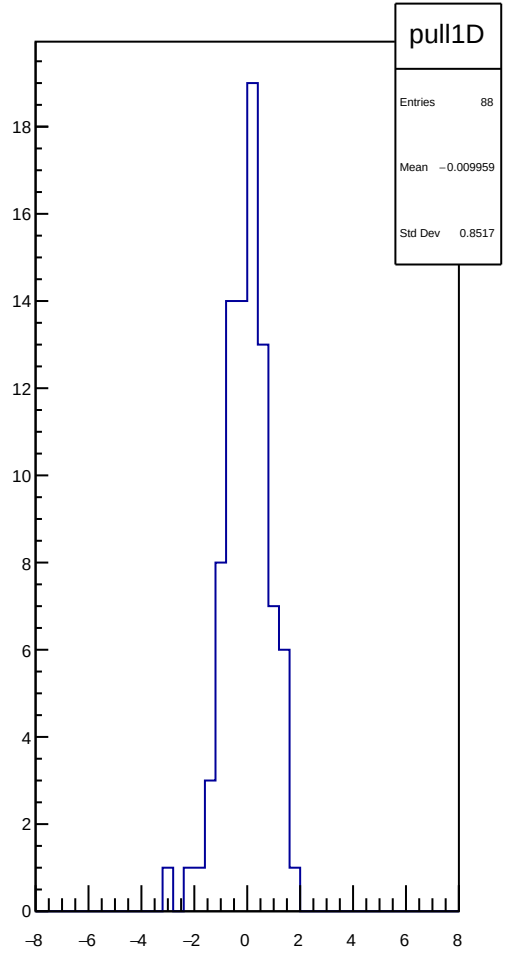

asym_at1_avg_rms vs run
χ^2 / ndf 8615 / 87
p0 2087 ± 1.606
5000
4500
4000
3500
3000
2500
2000

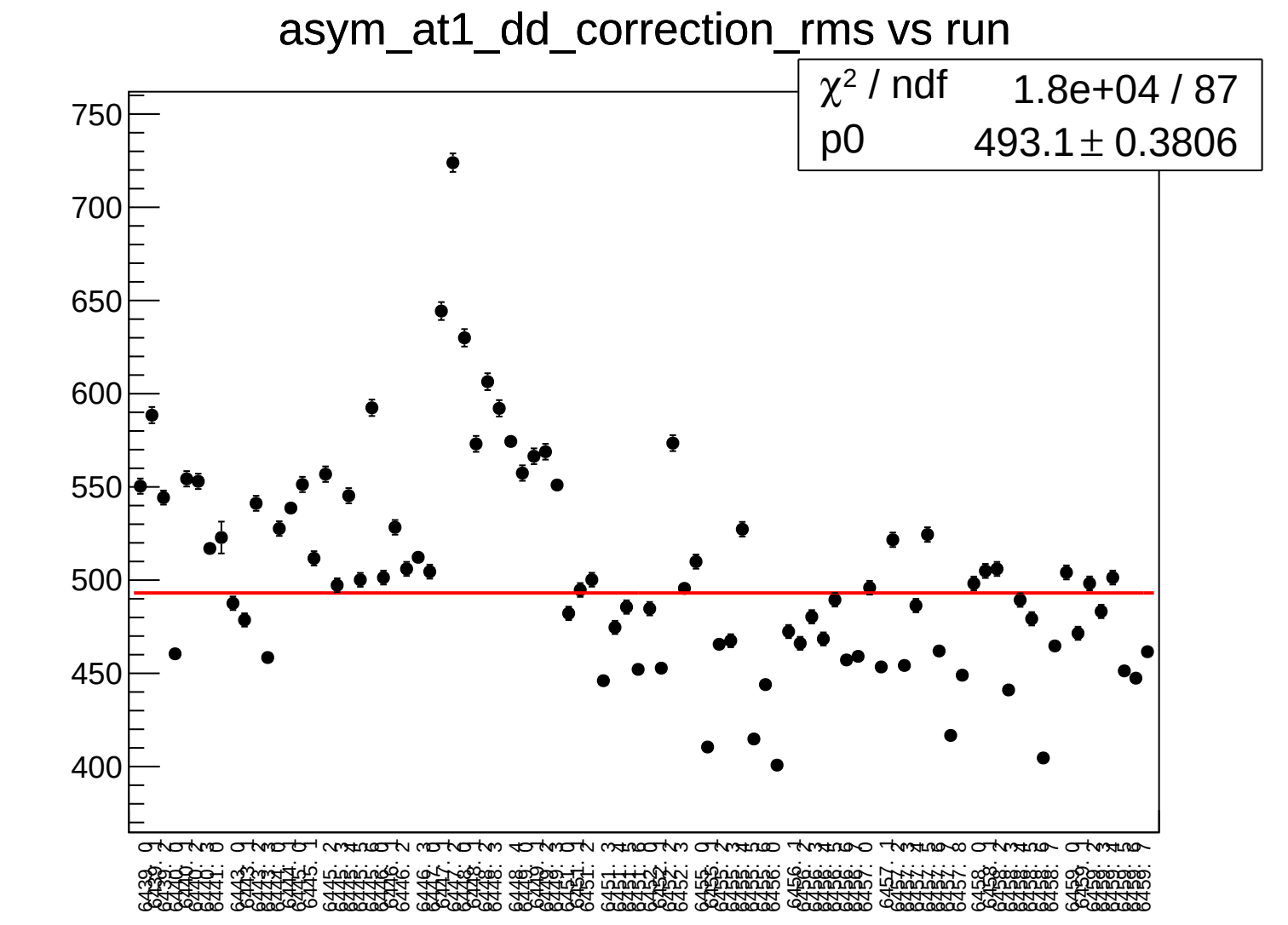

reg_asym_at1_dd_mean vs run
χ² / ndf 109.8 / 87
p0 490 ± 2038
pull
Entries 88
Mean 1291
Std Dev 1258

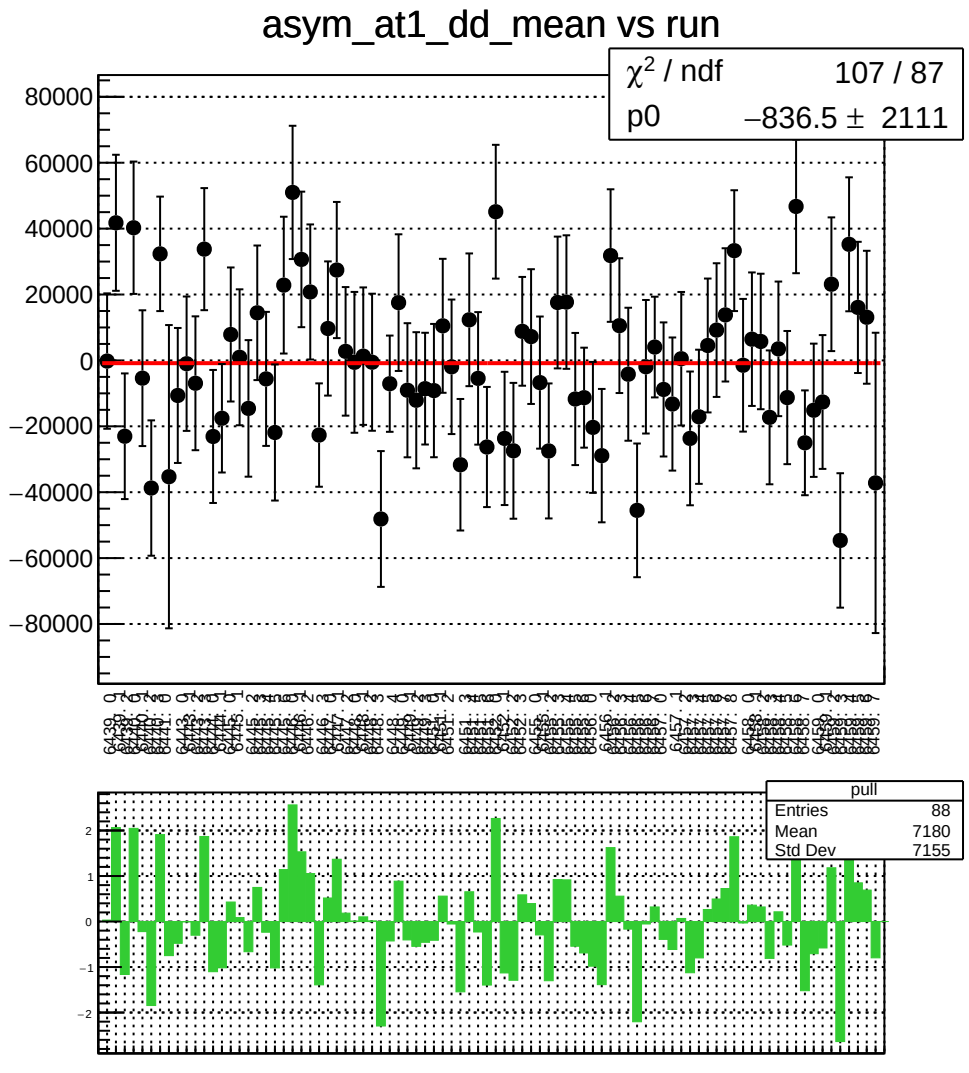

pull1D
Entries 88
Mean −0.001643
Std Dev 1.117

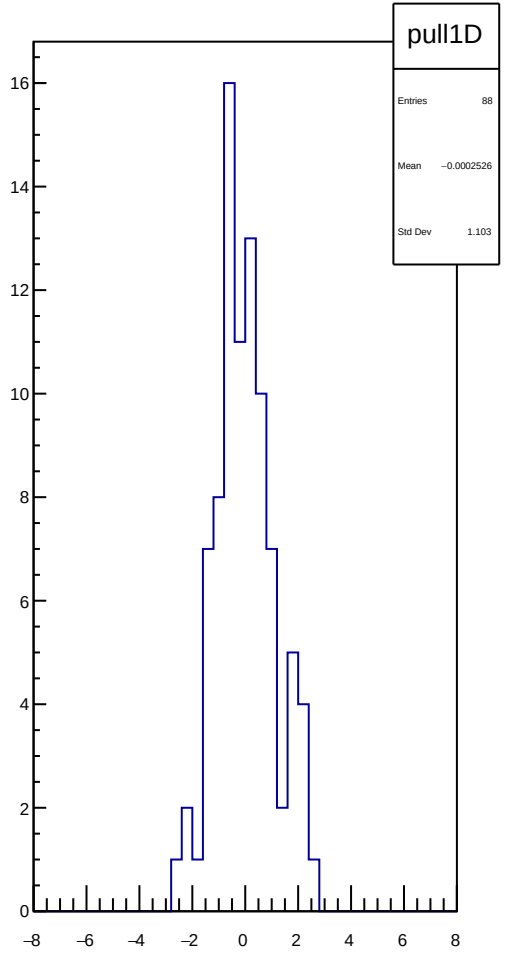

reg_asym_at1_dd_rms vs run
χ^2 / ndf 9369 / 87
p0 1872 ± 1.441
5000
4500
4000
3500
3000
2500
2000

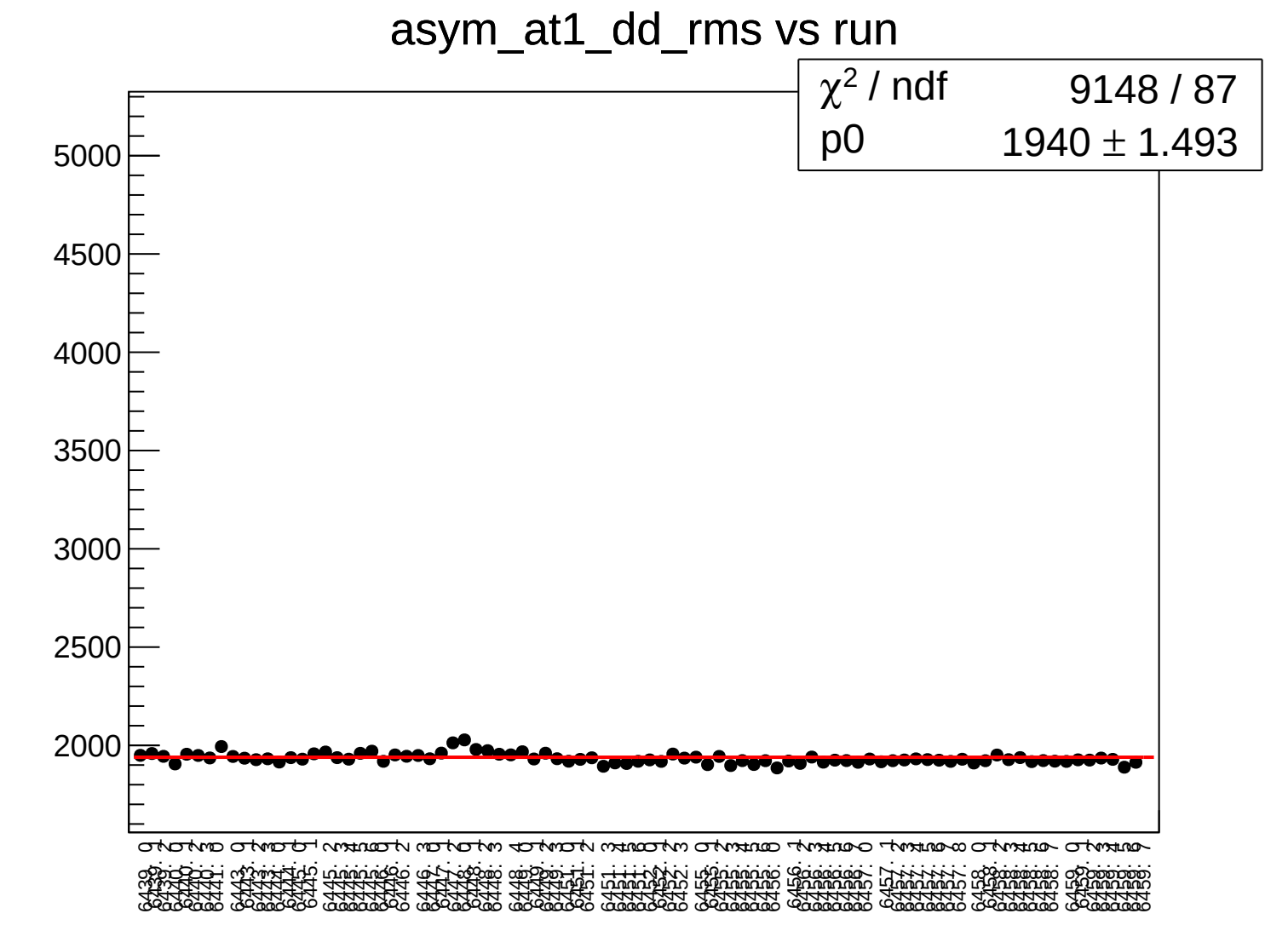

asym_at1_dd_correction_mean vs run
χ² / ndf 63.85 / 87
p0 1376 ± 538.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 160.4
Std Dev 54.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

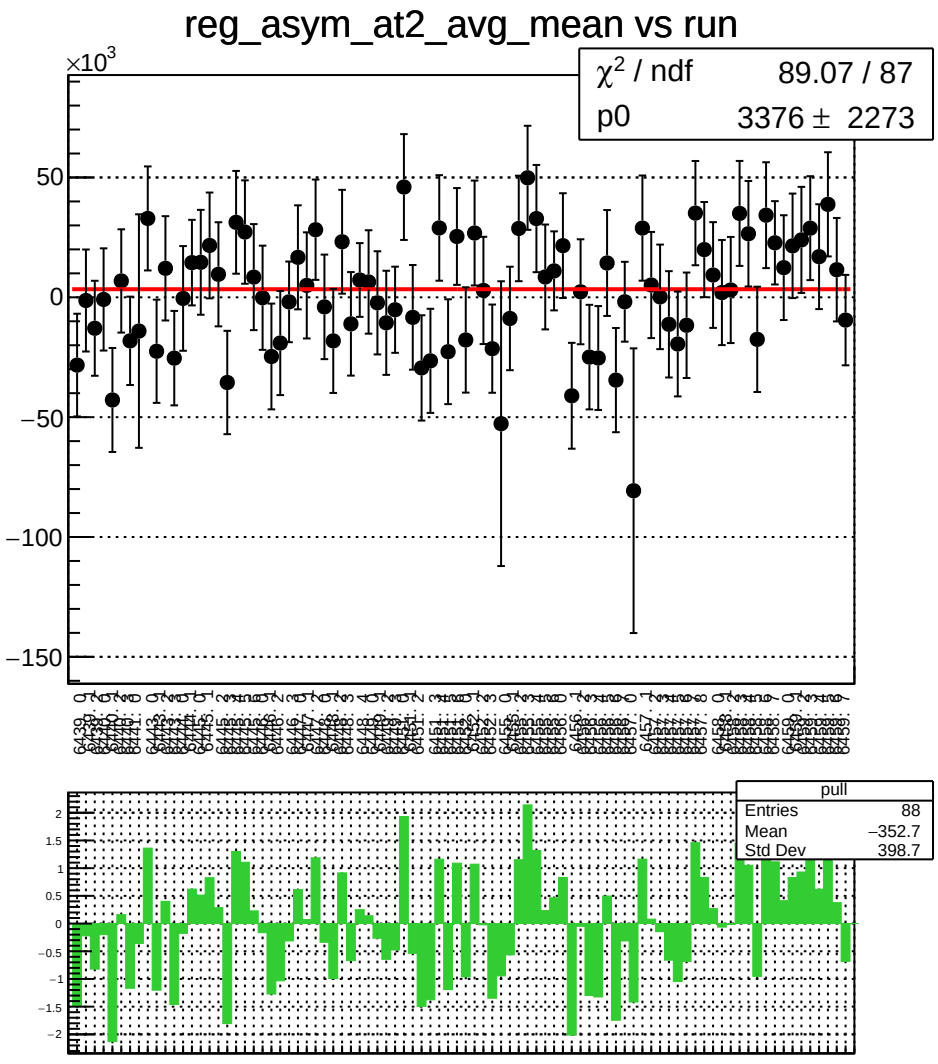

pull1D
Entries 88
Mean −0.009959
Std Dev 0.8517
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

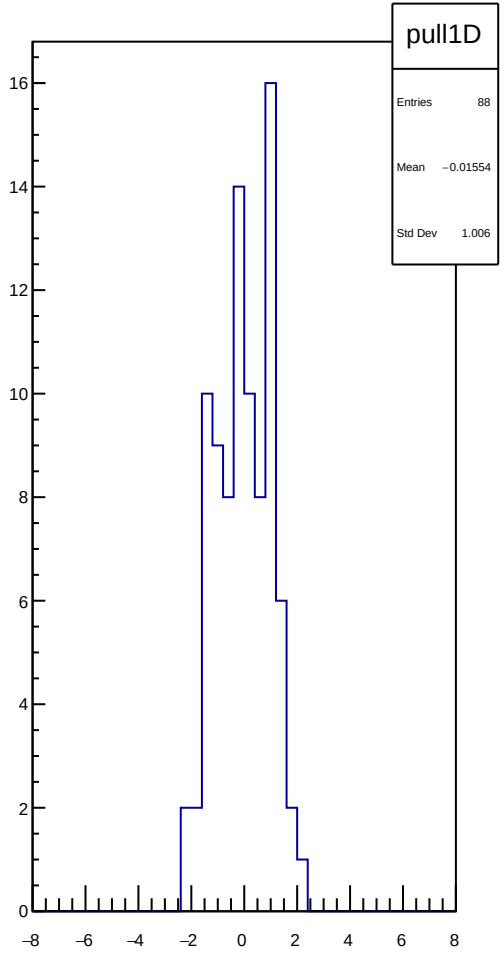

asym_at1_dd_correction_rms vs run
χ² / ndf 1.8e+04 / 87
p0 493.1 ± 0.3806
750
700
650
600
550
500
450
400

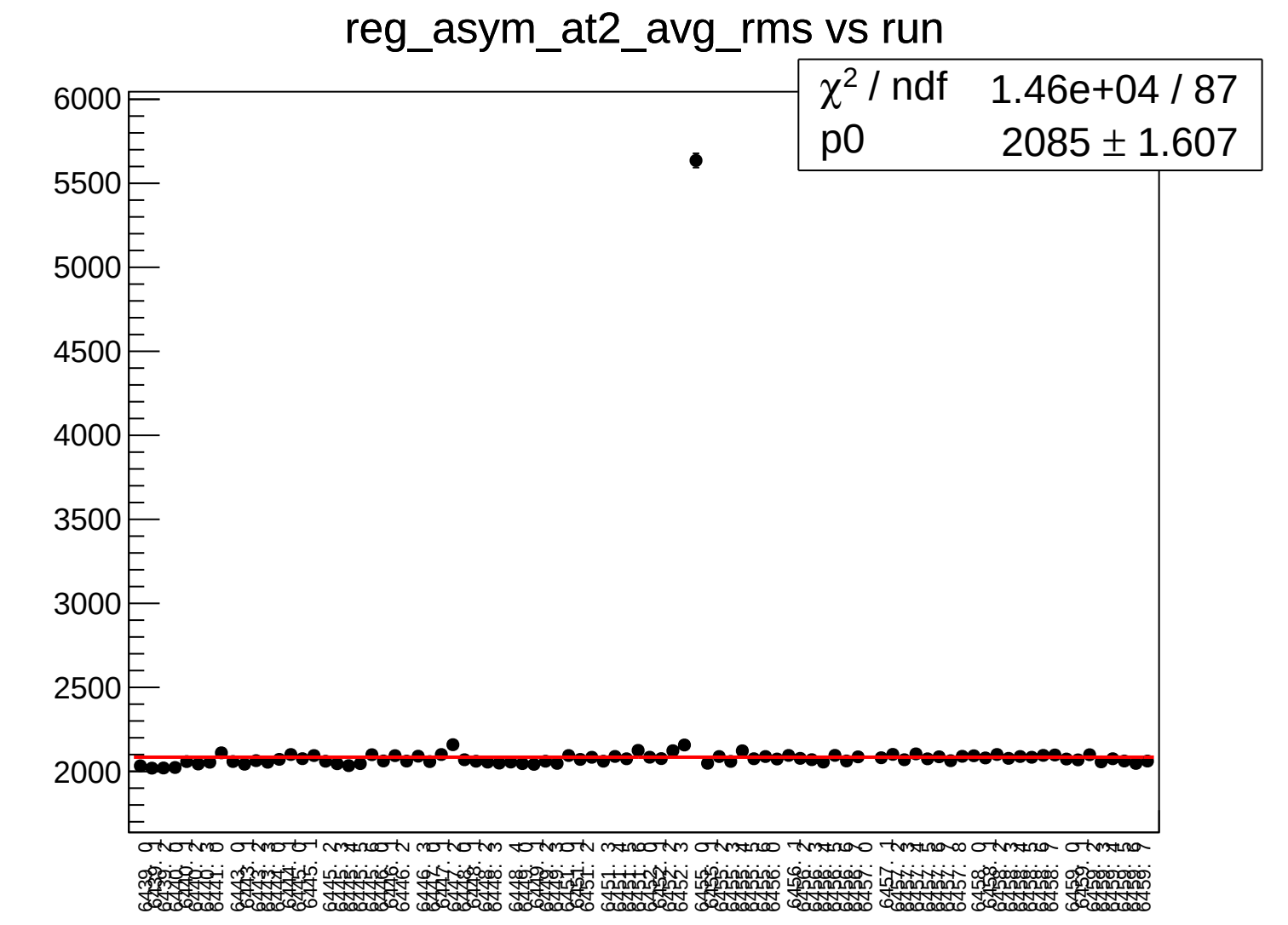

asym_at1_dd_mean vs run
χ² / ndf 107 / 87
p0 −836.5 ± 2111
pull
Entries 88
Mean 7180
Std Dev 7155

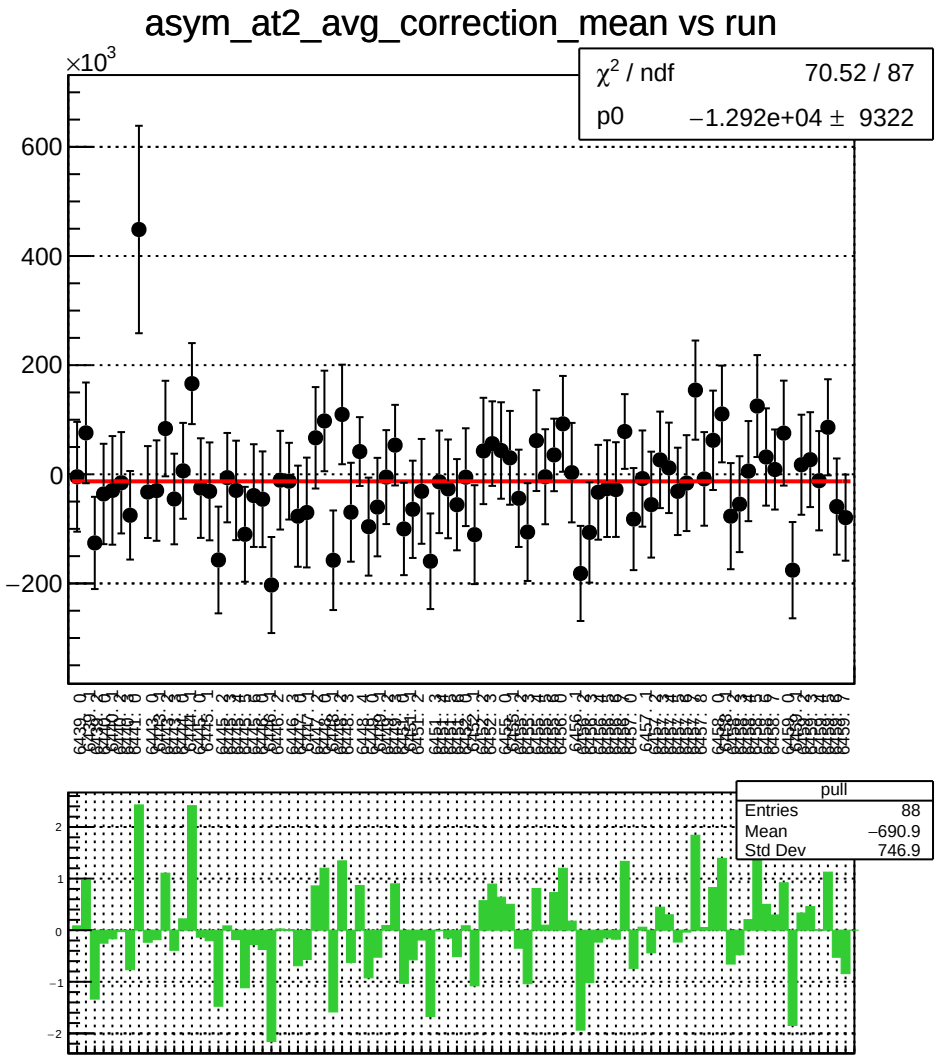

pull1D
Entries 88
Mean −0.0002526
Std Dev 1.103

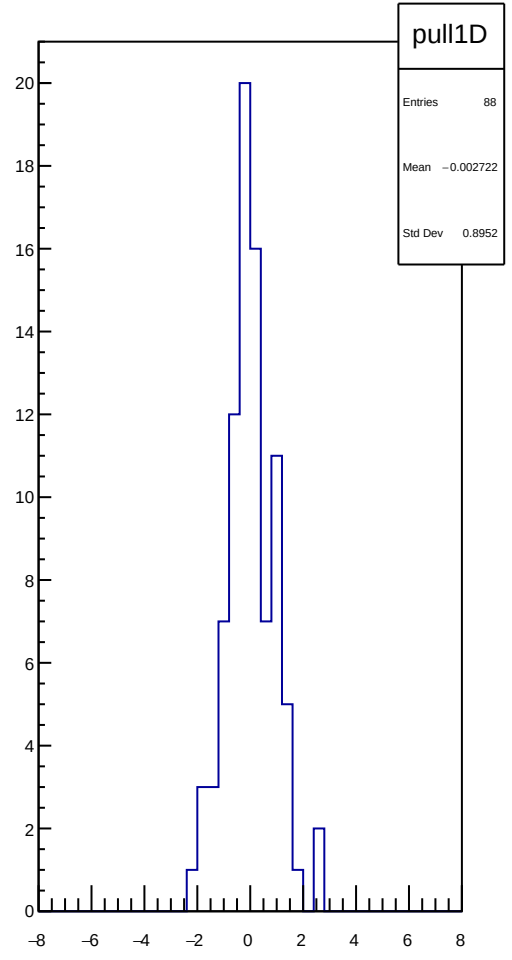

asym_at1_dd_rms vs run
χ^2 / ndf 9148 / 87
p0 1940 ± 1.493
5000
4500
4000
3500
3000
2500
2000

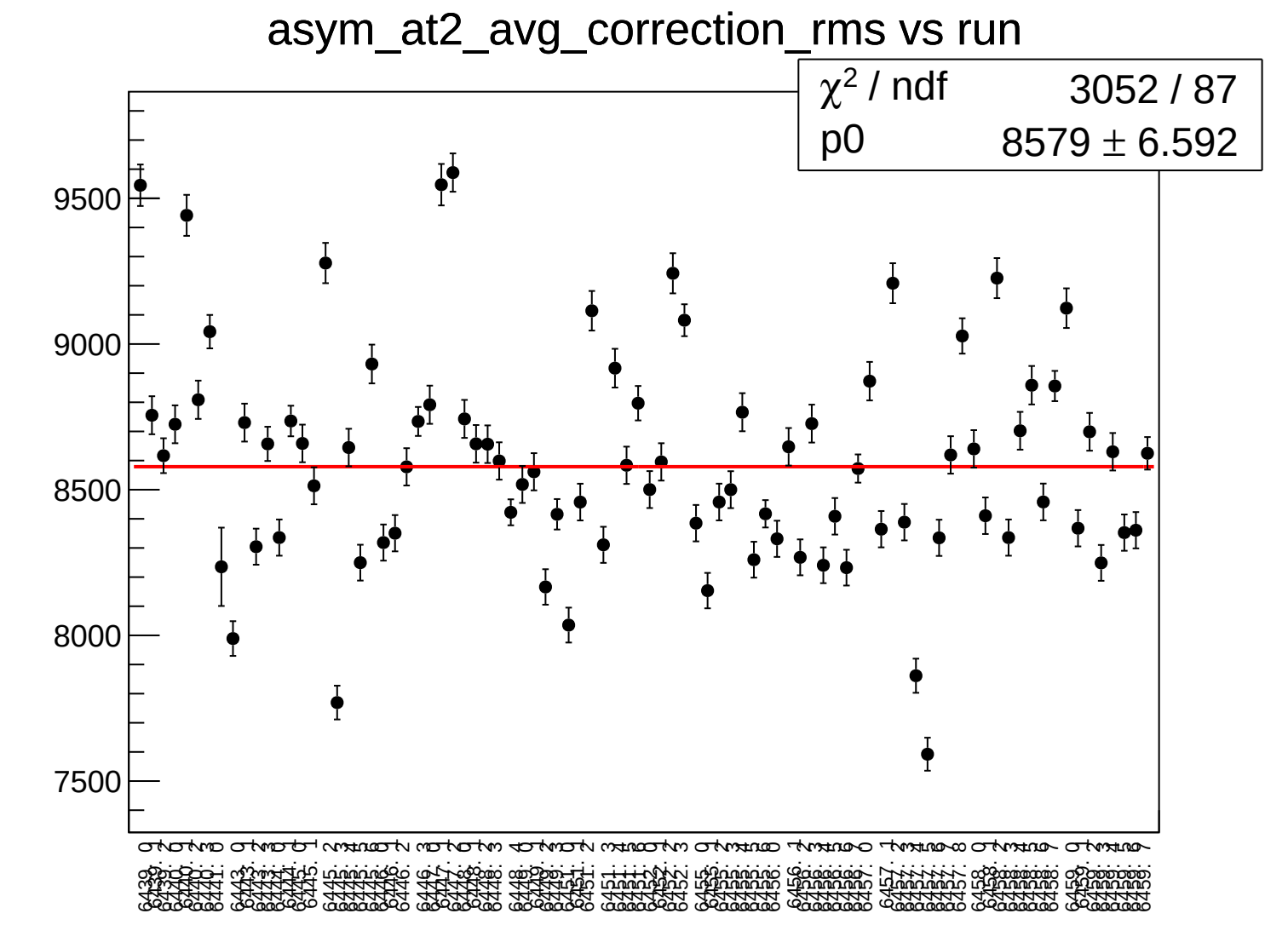

reg_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 89.07 / 87
p0 3376 ± 2273
50
0
−50
−100
−150
pull
Entries 88
Mean −352.7
Std Dev 398.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

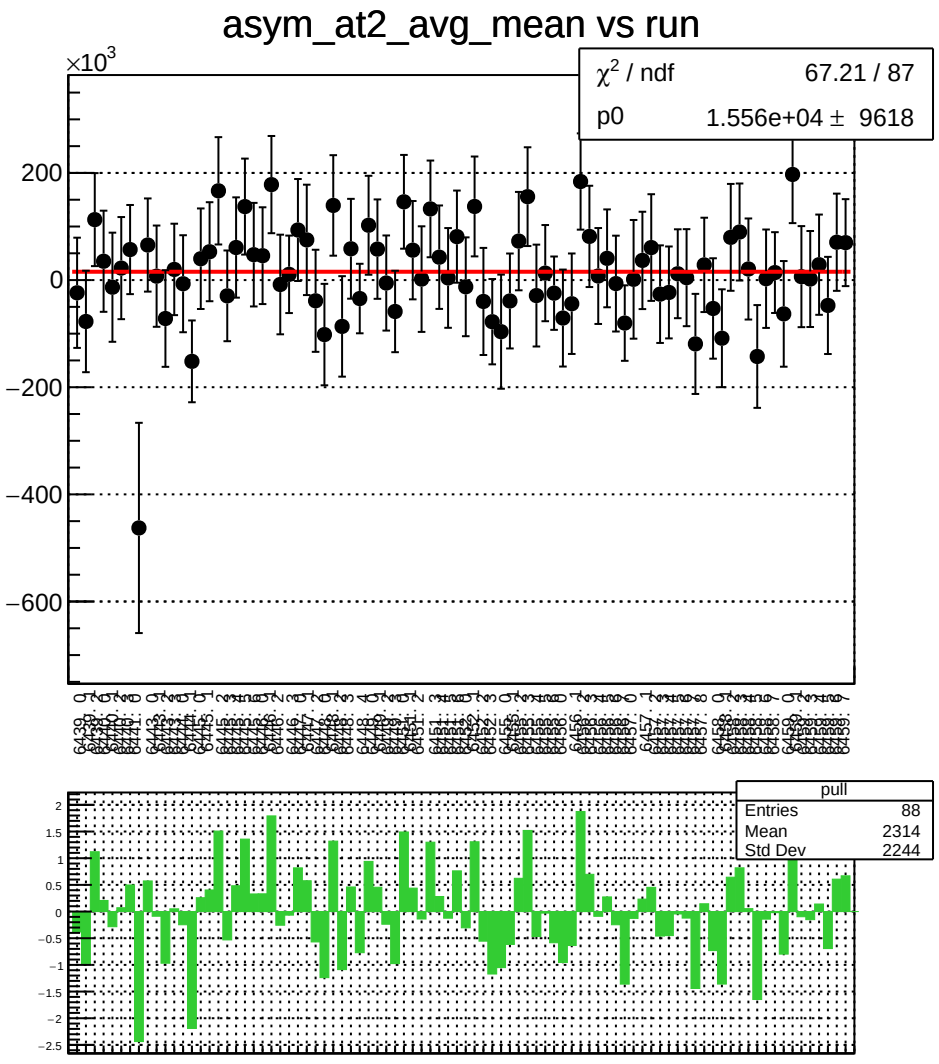

pull1D
Entries 88
Mean −0.01554
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

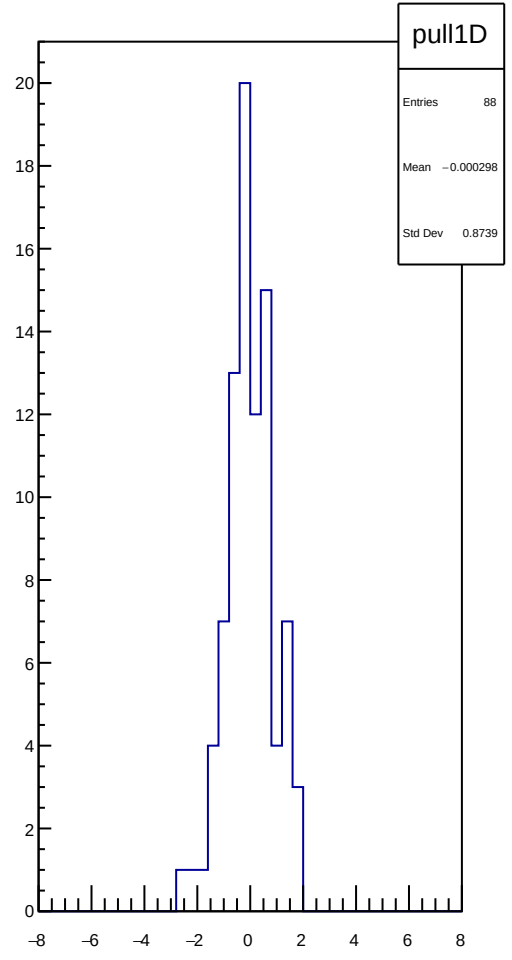

reg_asym_at2_avg_rms vs run
χ^2 / ndf 1.46e+04 / 87
p0 2085 ± 1.607
6000
5500
5000
4500
4000
3500
3000
2500
2000

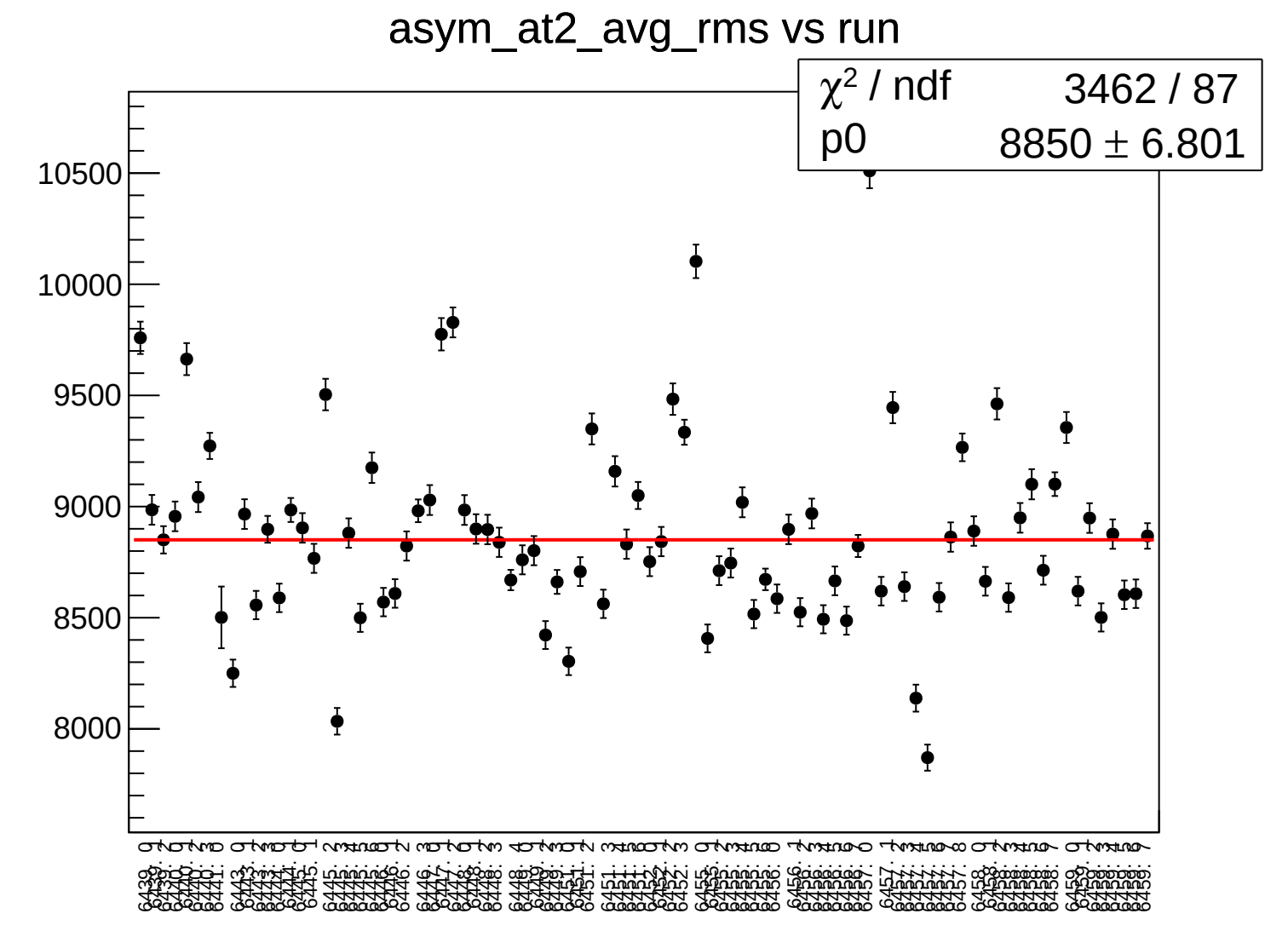

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 70.52 / 87
p0 −1.292e+04 ± 9322
600
400
200
0
−200
pull
Entries 88
Mean −690.9
Std Dev 746.9
2
1
0
−1
−2

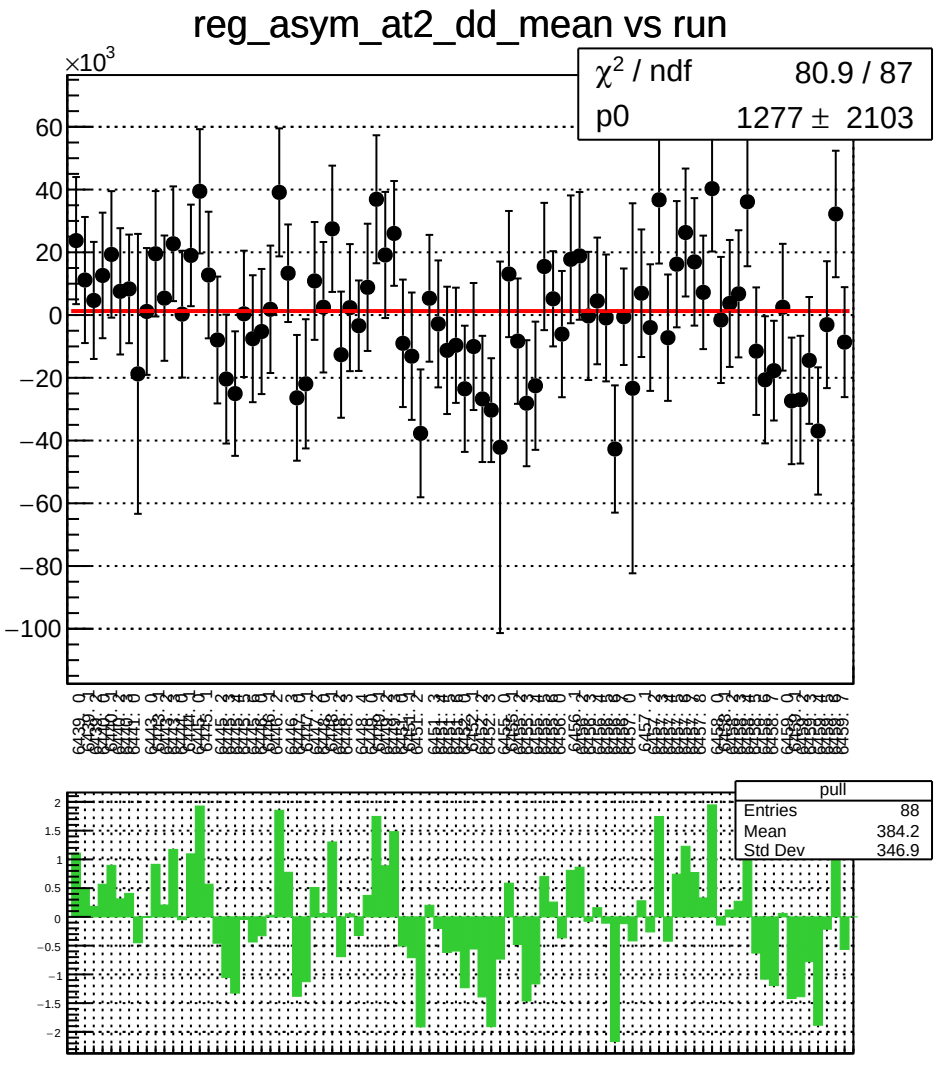

pull1D
Entries 88
Mean −0.002722
Std Dev 0.8952
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

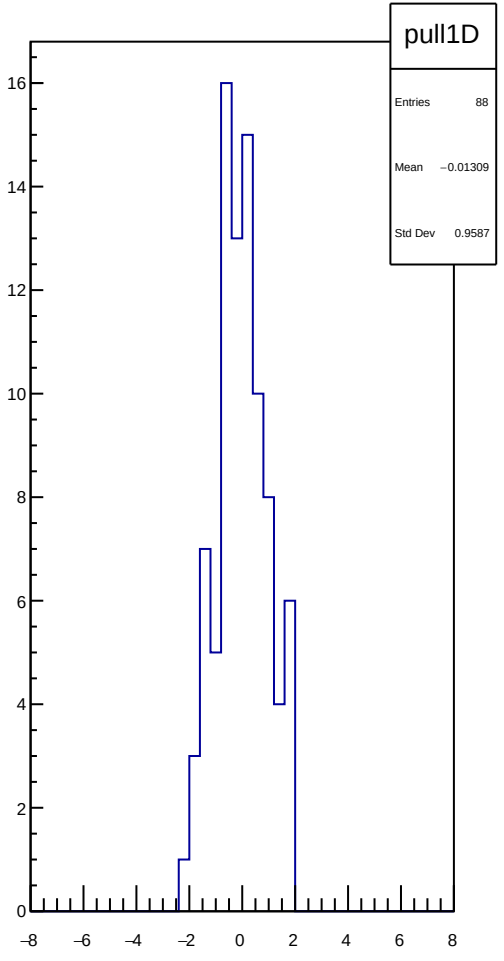

asym_at2_avg_correction_rms vs run
χ^2 / ndf 3052 / 87
p0 8579 ± 6.592
9500
9000
8500
8000
7500

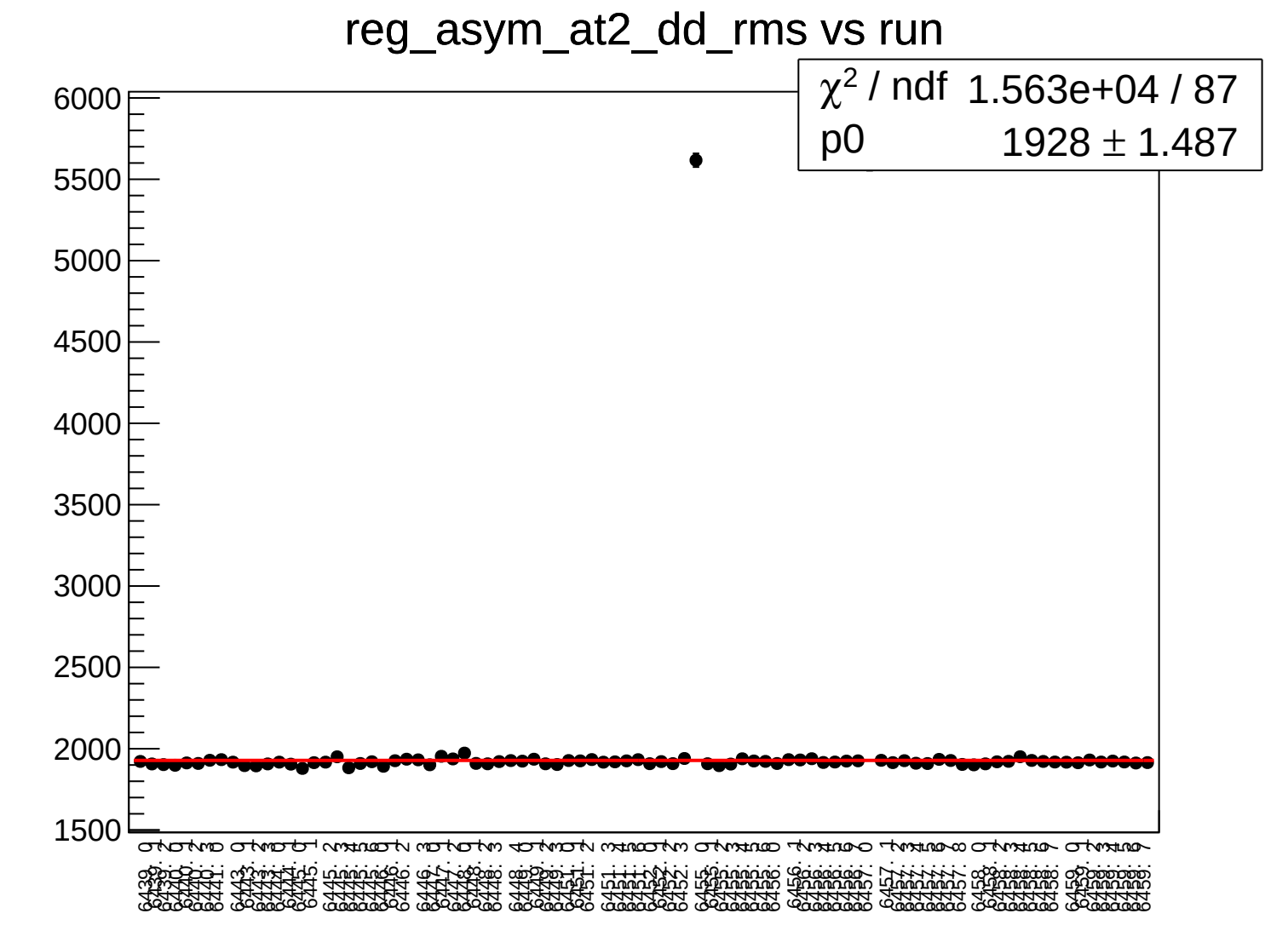

asym_at2_avg_mean vs run
×10^3
χ² / ndf 67.21 / 87
p0 1.556e+04 ± 9618
200
0
−200
−400
−600
pull
Entries 88
Mean 2314
Std Dev 2244
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

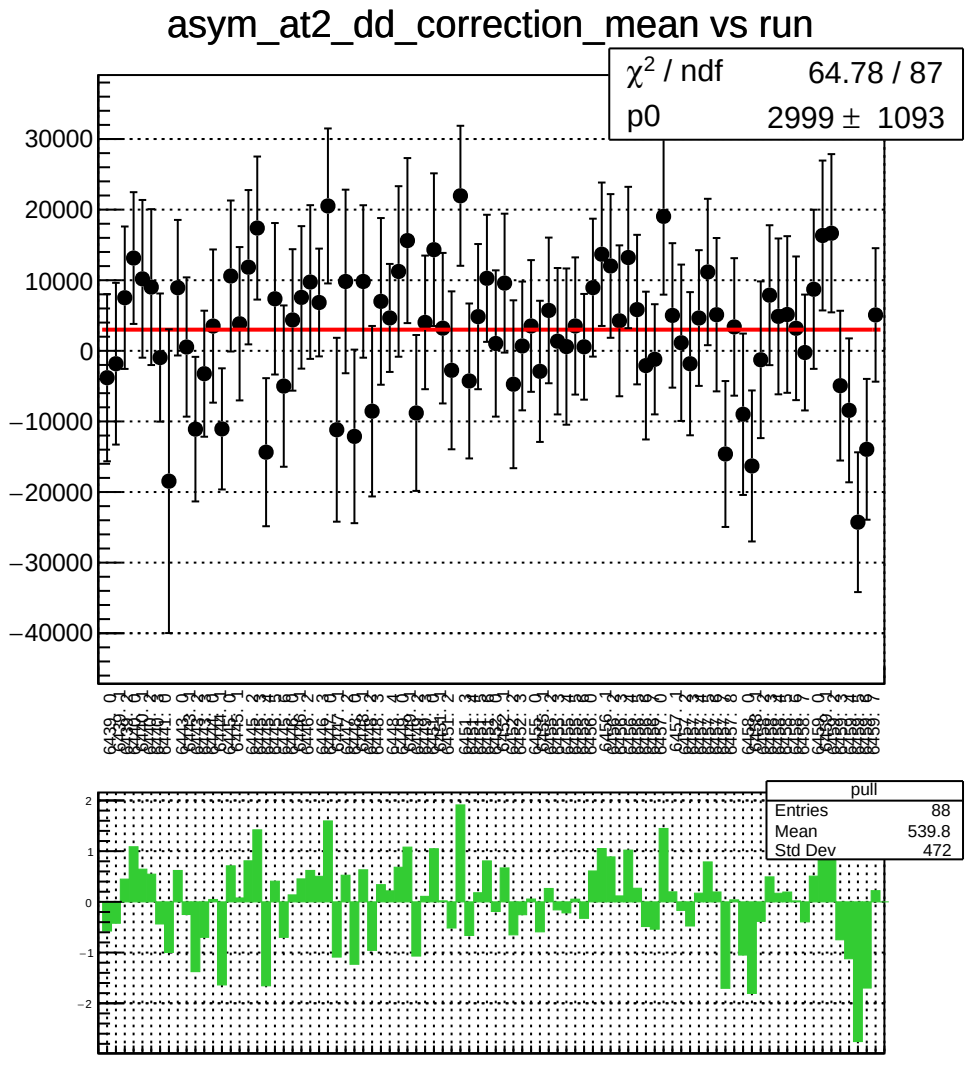

pull1D
Entries 88
Mean −0.000298
Std Dev 0.8739
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

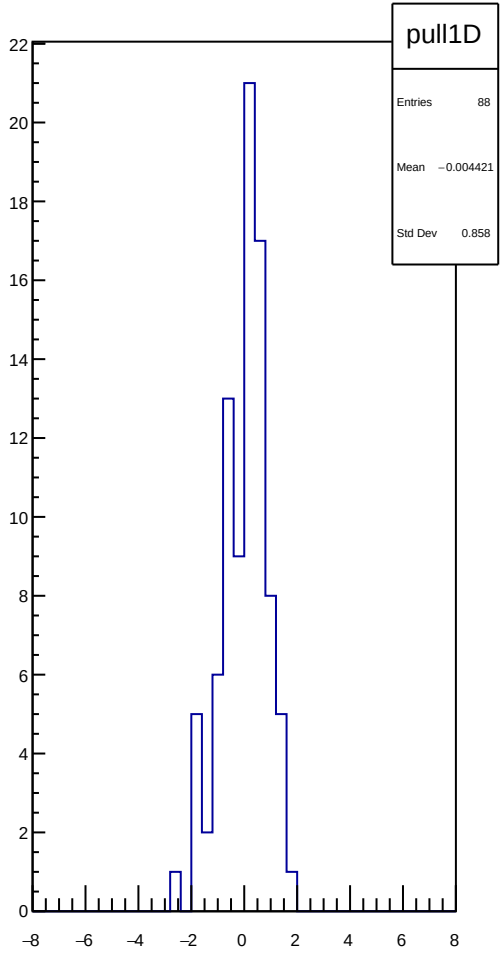

asym_at2_avg_rms vs run
χ^2 / ndf 3462 / 87
p0 8850 ± 6.801
10500
10000
9500
9000
8500
8000

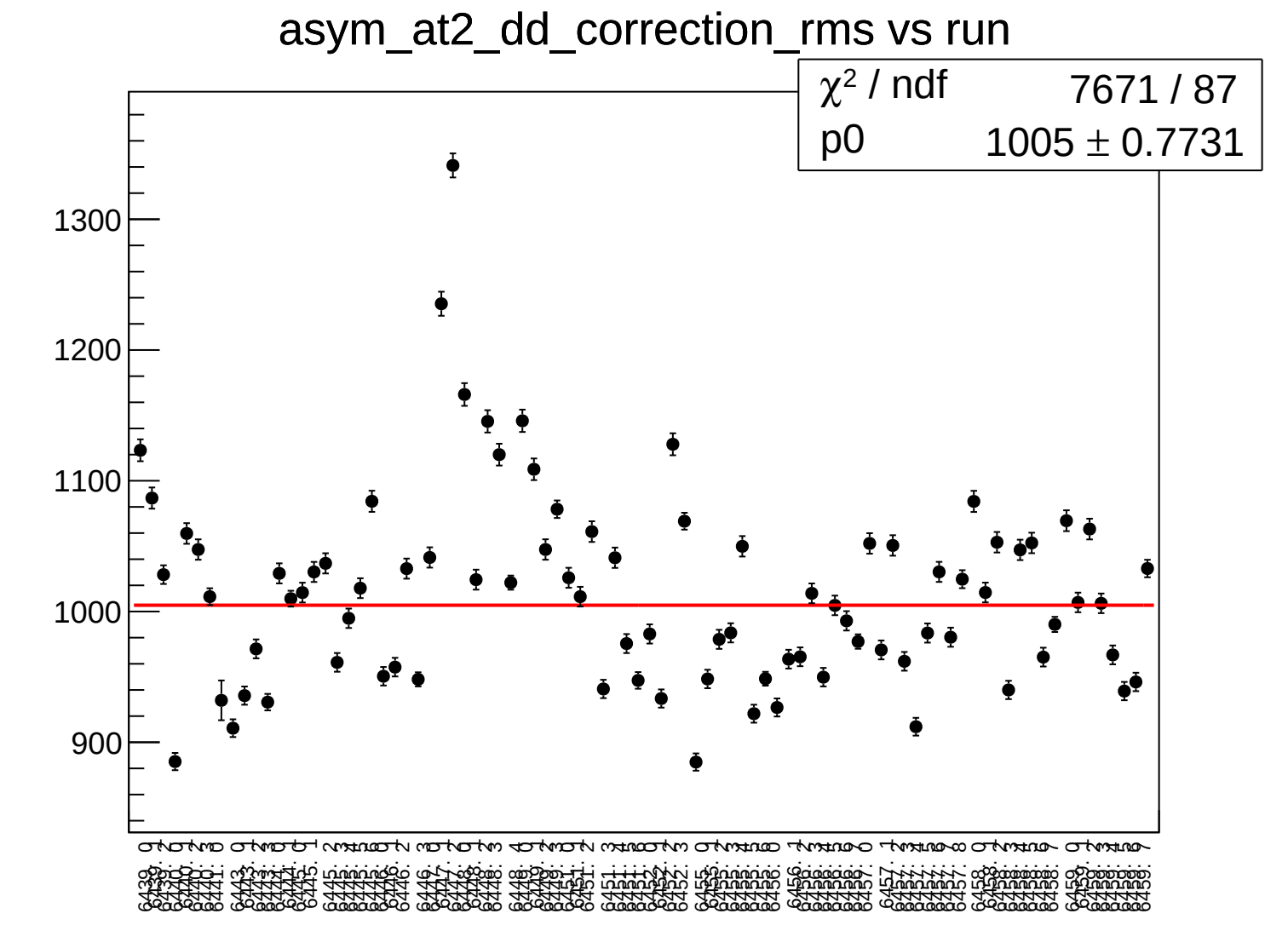

reg_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 80.9 / 87
p0 1277 ± 2103
pull
Entries 88
Mean 384.2
Std Dev 346.9

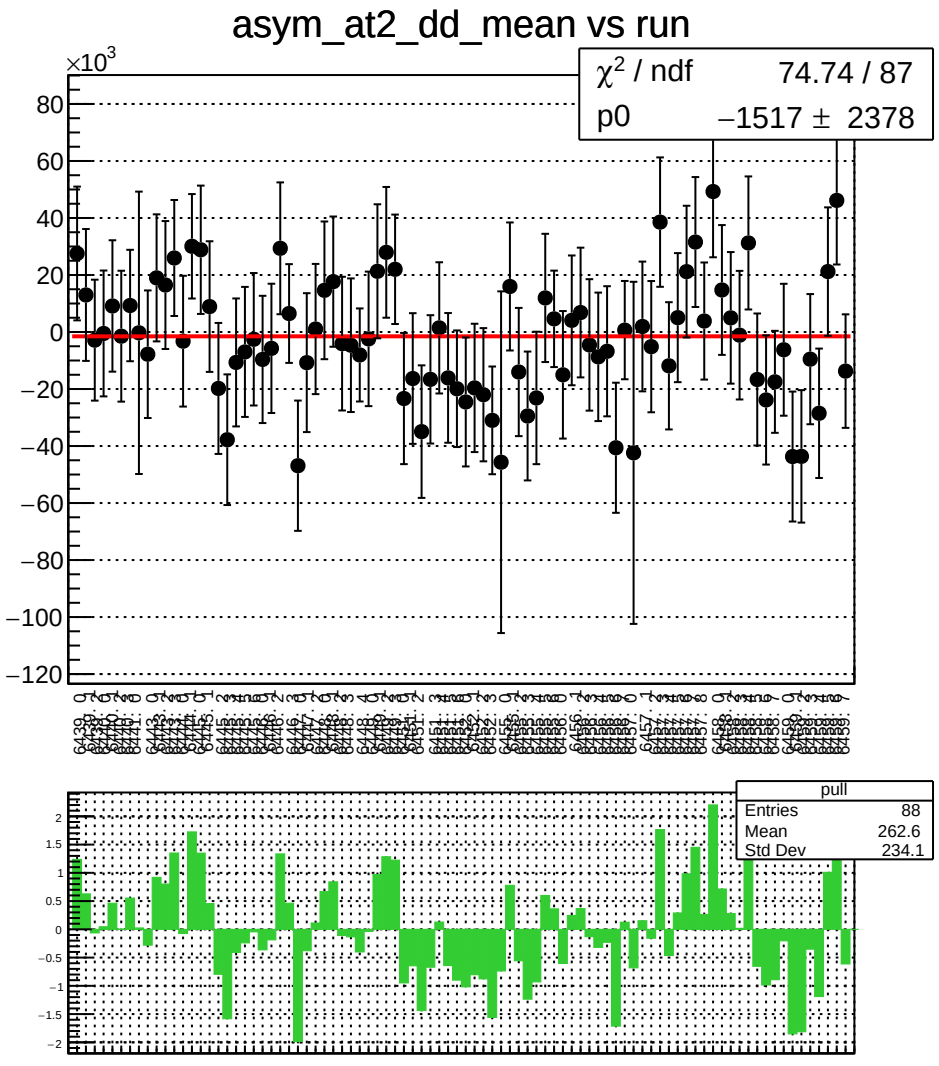

pull1D
Entries 88
Mean −0.01309
Std Dev 0.9587

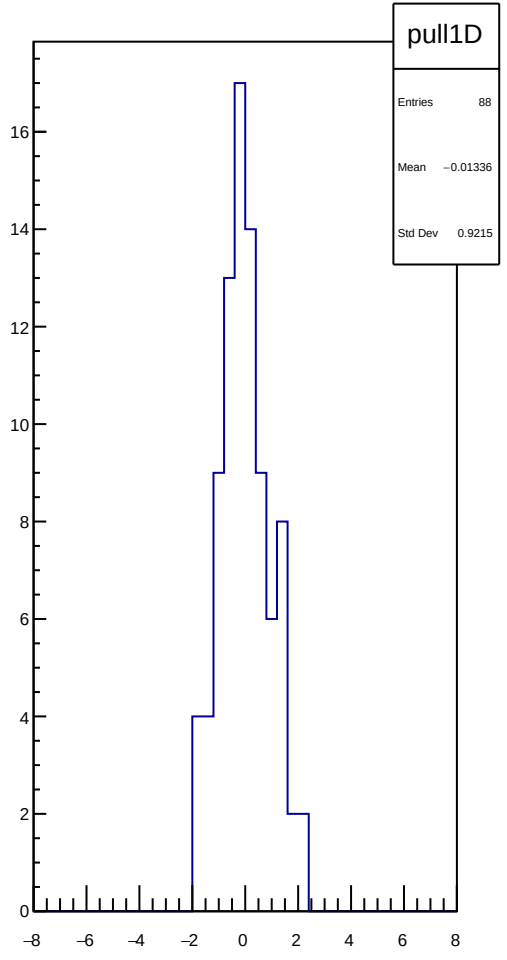

reg_asym_at2_dd_rms vs run
χ² / ndf 1.563e+04 / 87
p0 1928 ± 1.487
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

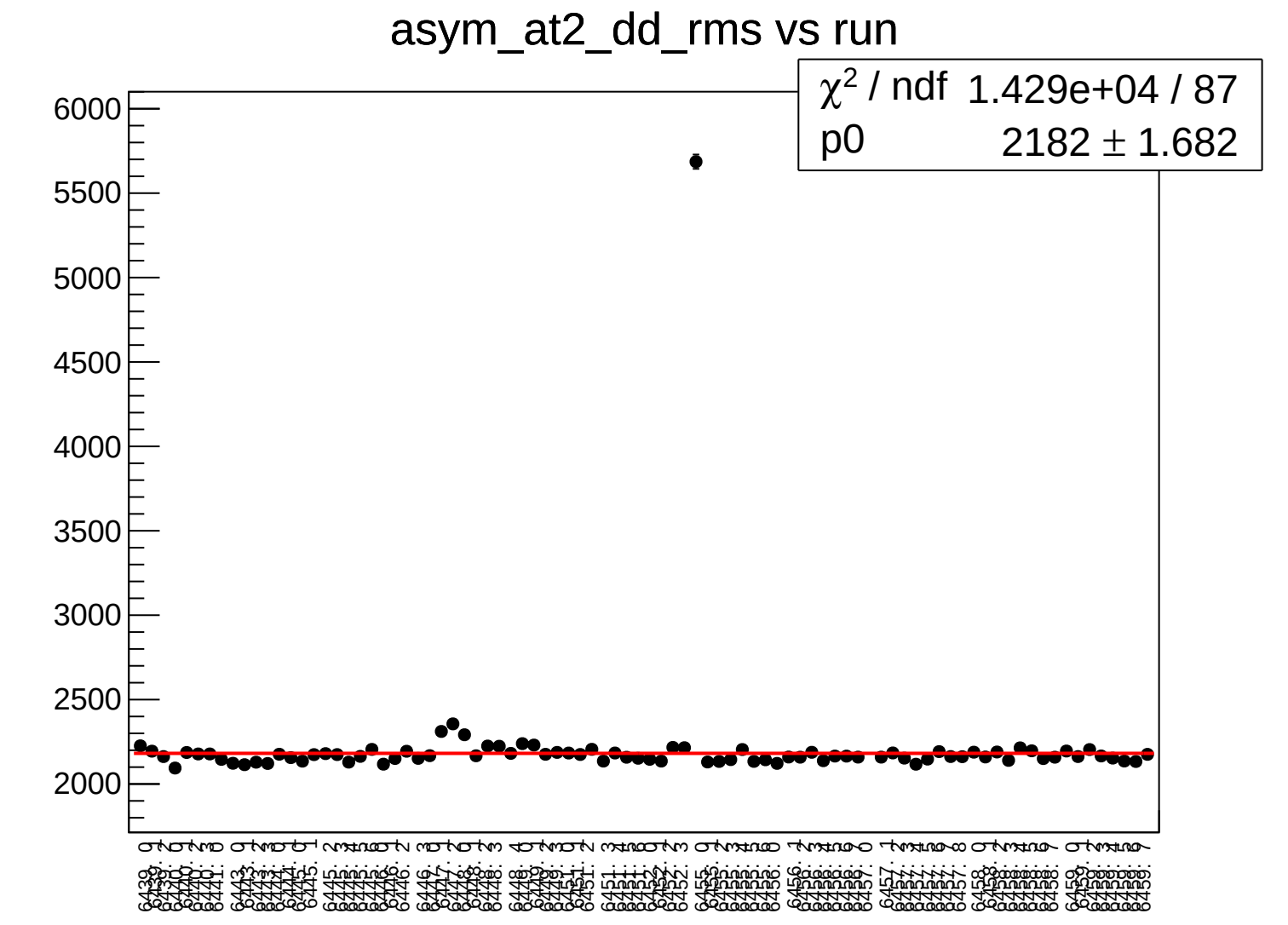

asym_at2_dd_correction_mean vs run
χ² / ndf 64.78 / 87
p0 2999 ± 1093
pull
Entries 88
Mean 539.8
Std Dev 472

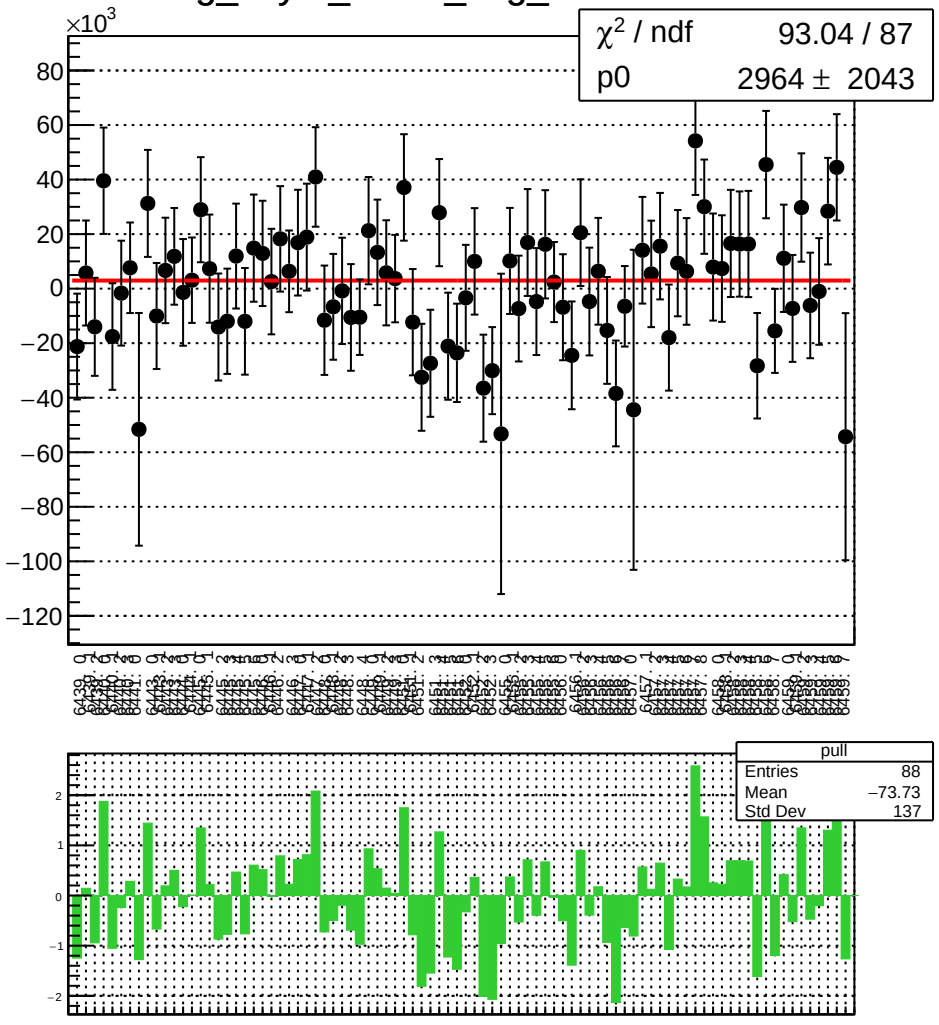

pull1D
Entries 88
Mean −0.004421
Std Dev 0.858

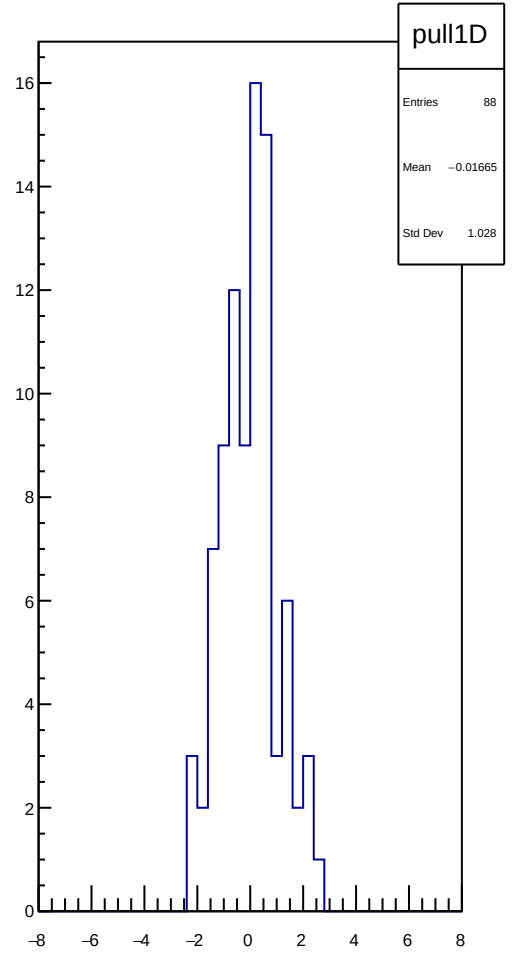

asym_at2_dd_correction_rms vs run
χ² / ndf 7671 / 87
p0 1005 ± 0.7731
1300
1200
1100
1000
900

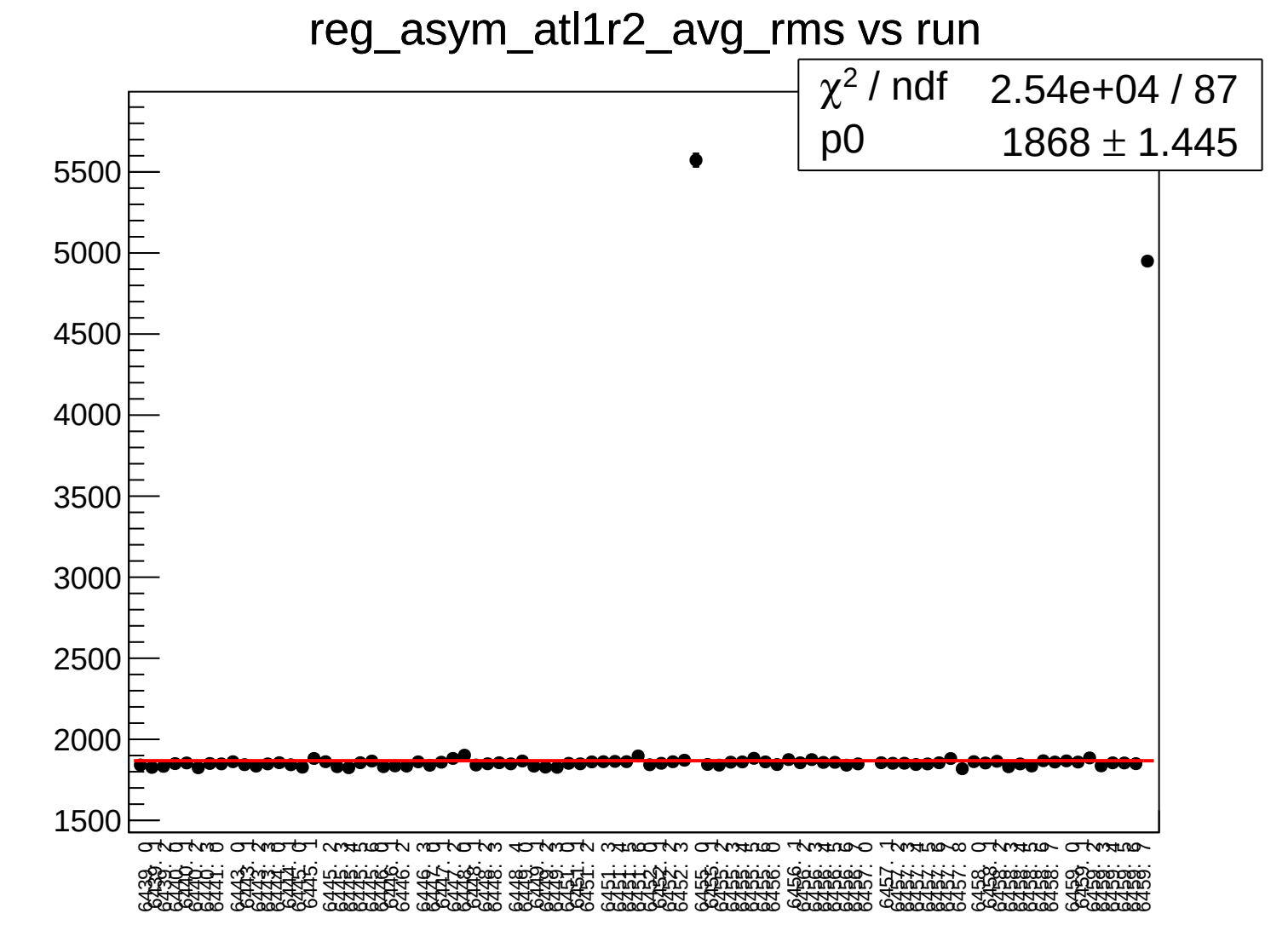

asym_at2_dd_mean vs run
×10^3
χ² / ndf 74.74 / 87
p0 −1517 ± 2378
pull
Entries 88
Mean 262.6
Std Dev 234.1

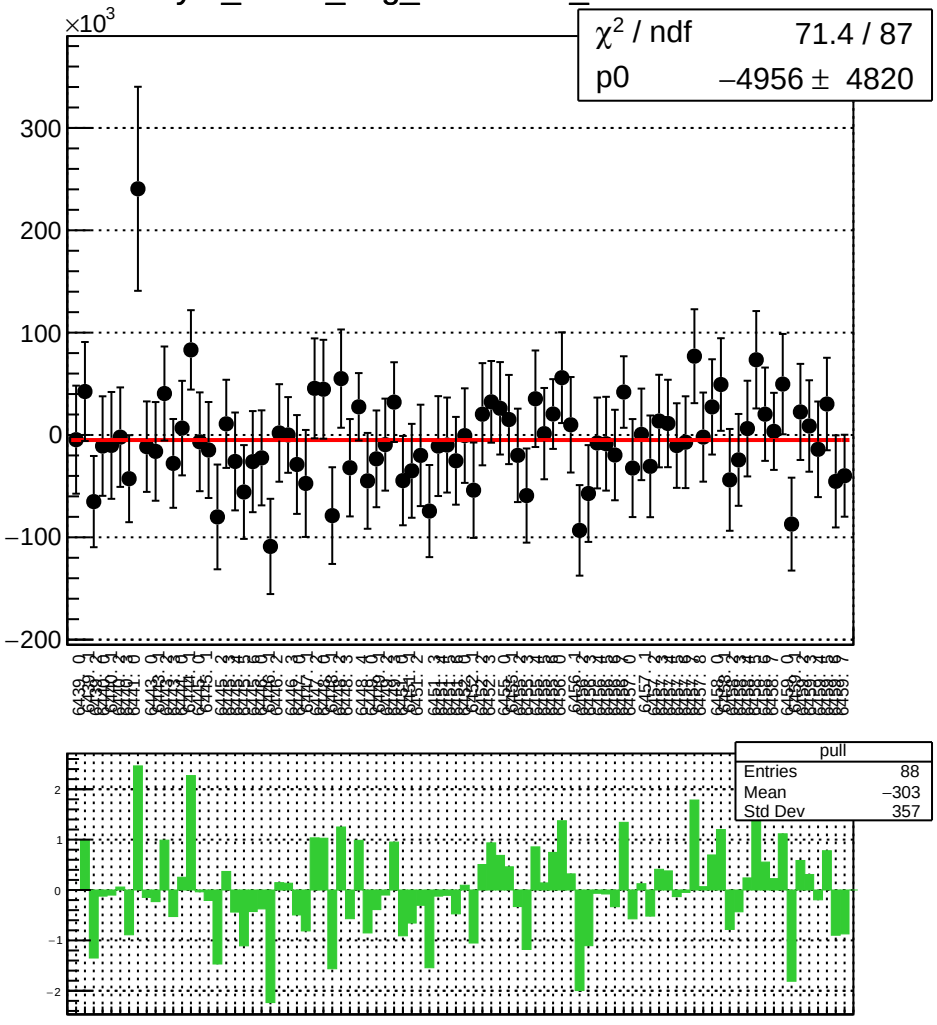

pull1D
Entries 88
Mean −0.01336
Std Dev 0.9215

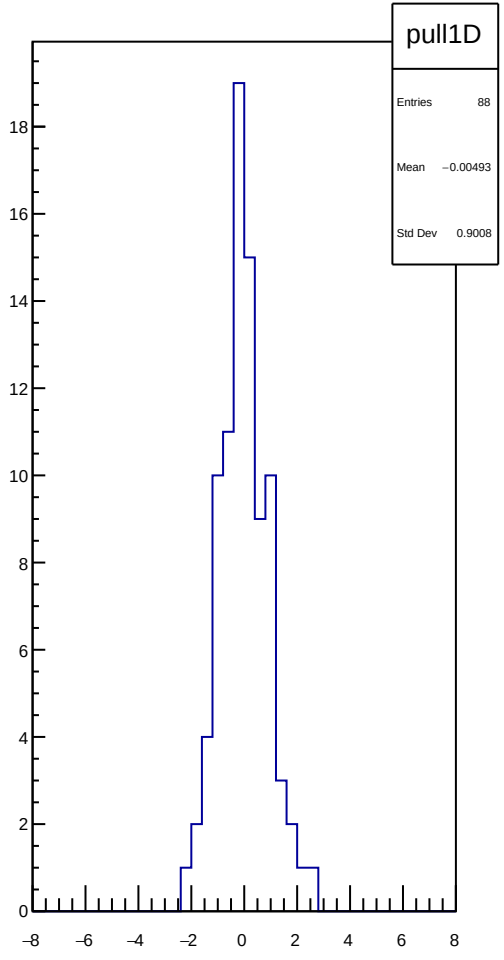

asym_at2_dd_rms vs run
χ^2 / ndf 1.429e+04 / 87
p0 2182 ± 1.682
6000
5500
5000
4500
4000
3500
3000
2500
2000

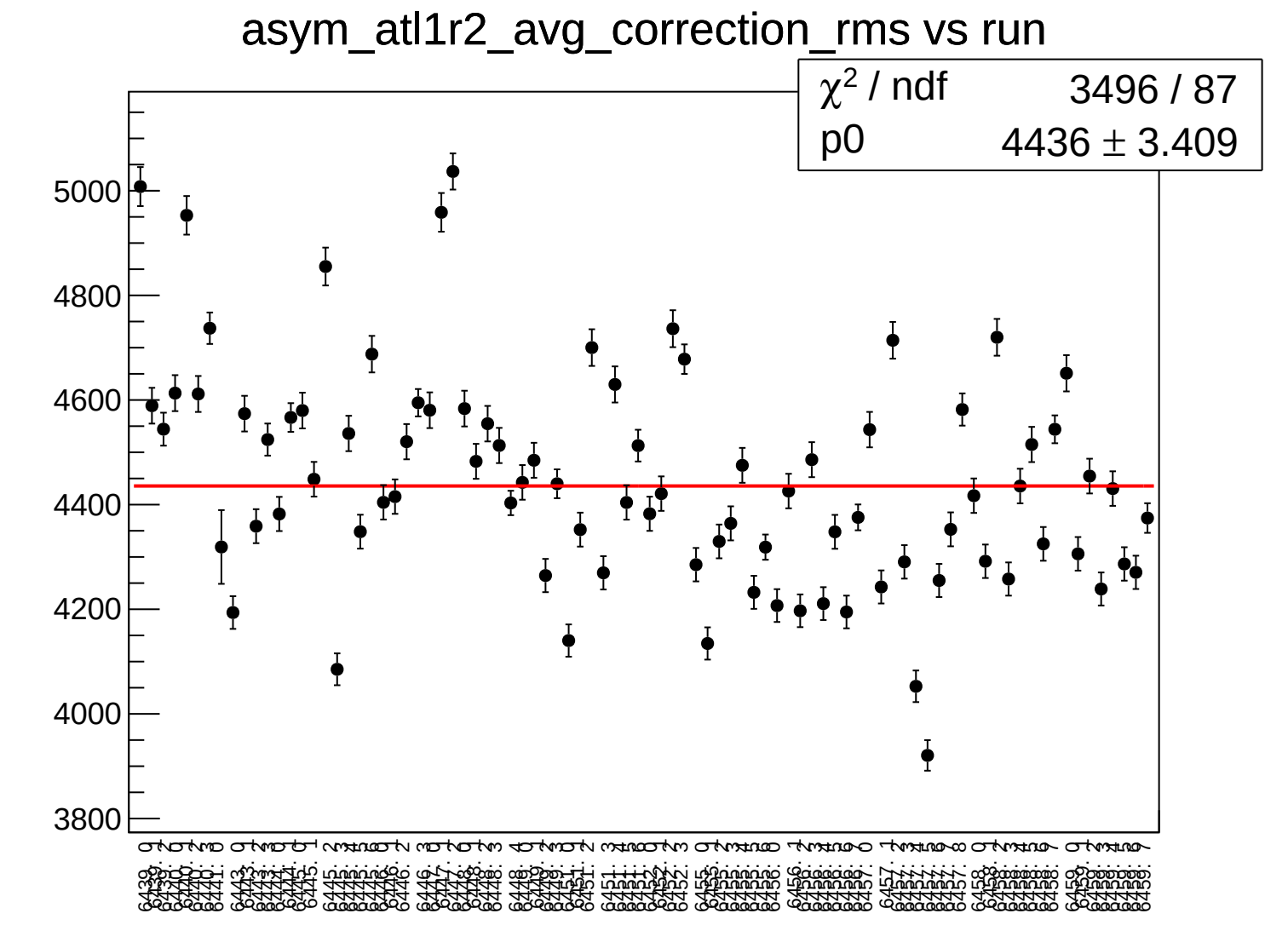

reg_asym_atl1r2_avg_mean vs run
χ^2 / ndf 93.04 / 87
p0 2964 ± 2043
pull
Entries 88
Mean −73.73
Std Dev 137

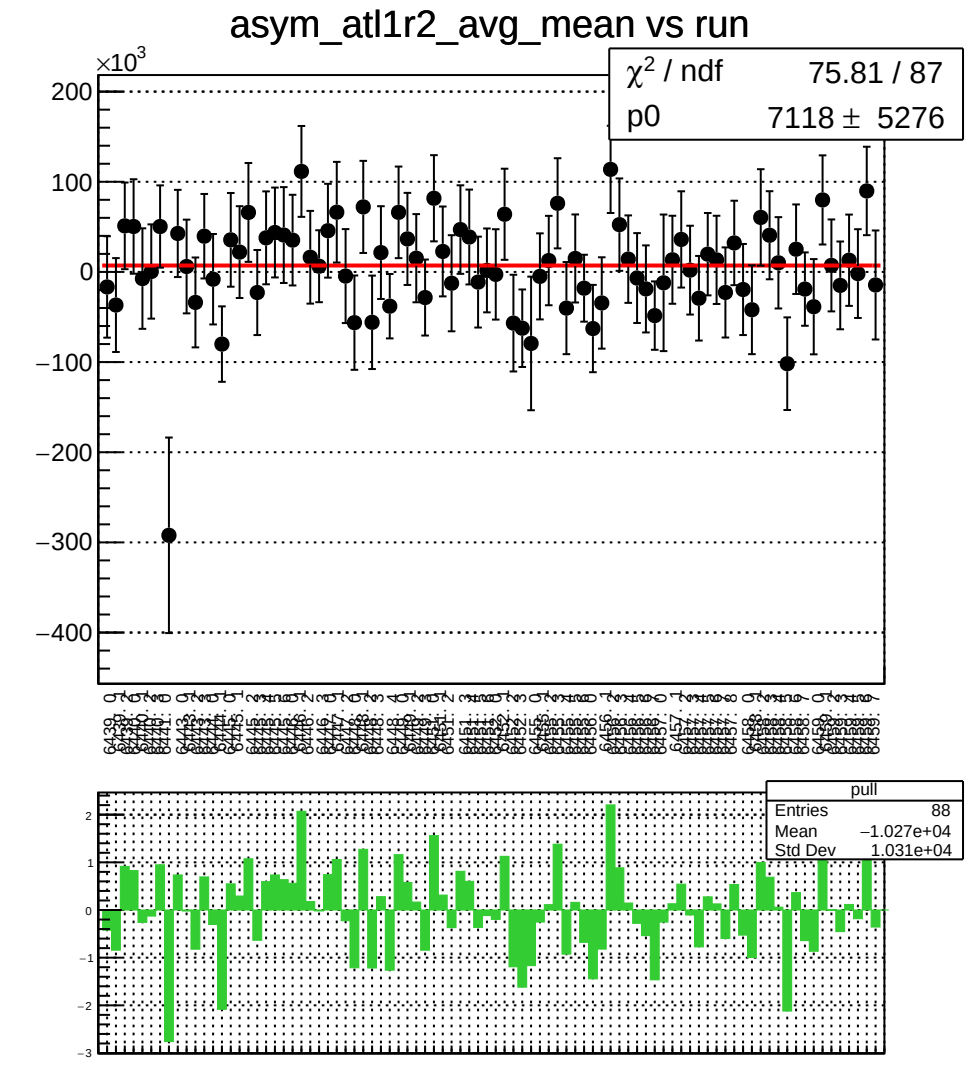

pull1D
Entries 88
Mean −0.01665
Std Dev 1.028

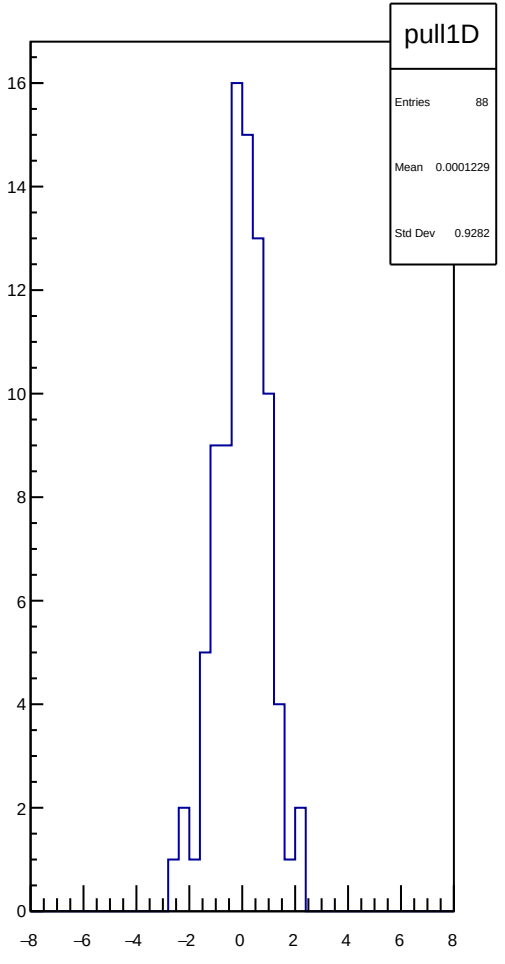

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 2.54e+04 / 87
p0 1868 ± 1.445
5500
5000
4500
4000
3500
3000
2500
2000
1500

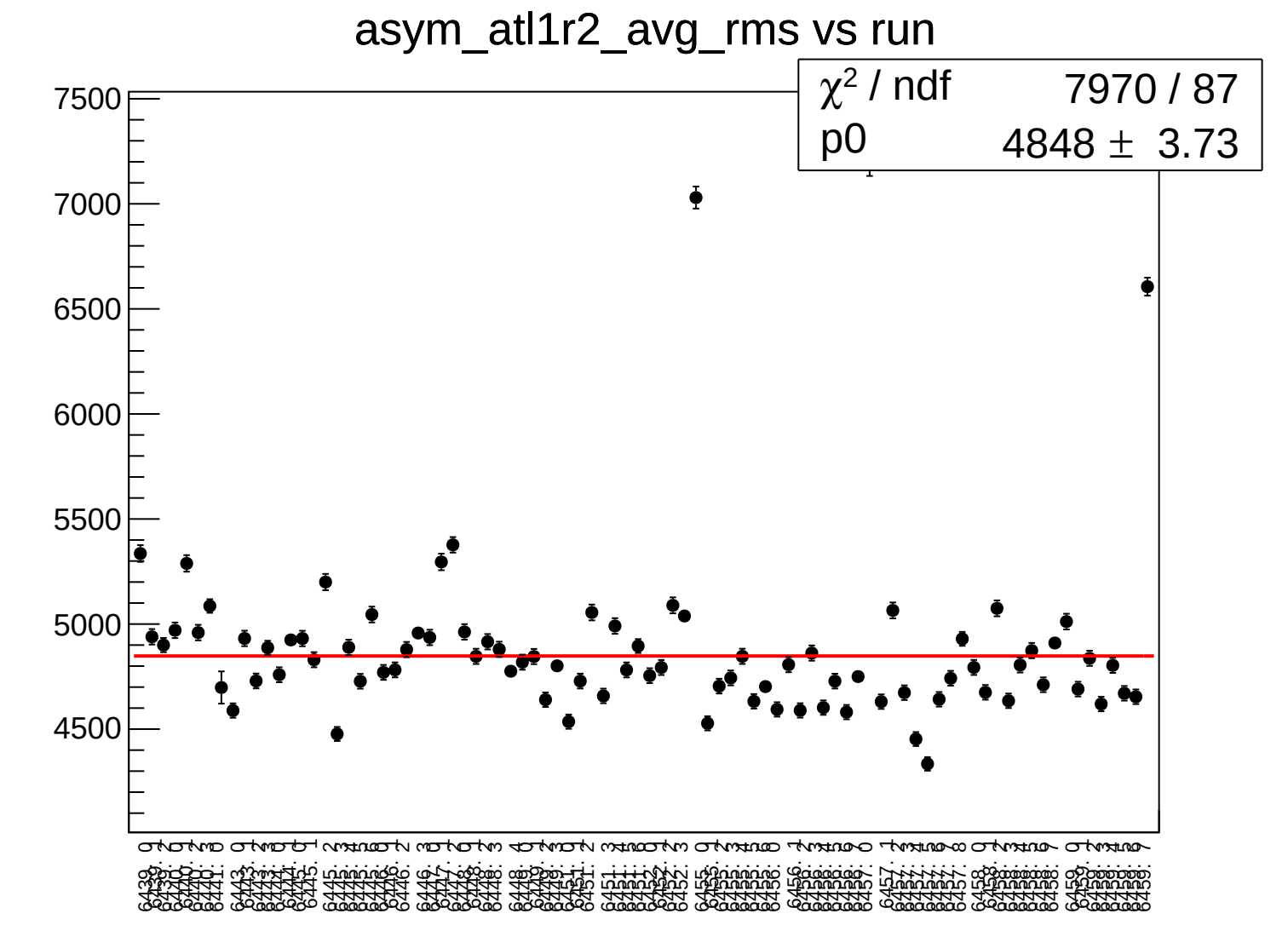

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 71.4 / 87
p0 −4956 ± 4820
300
200
100
0
−100
−200
pull
Entries 88
Mean −303
Std Dev 357
2
1
0
−1
−2

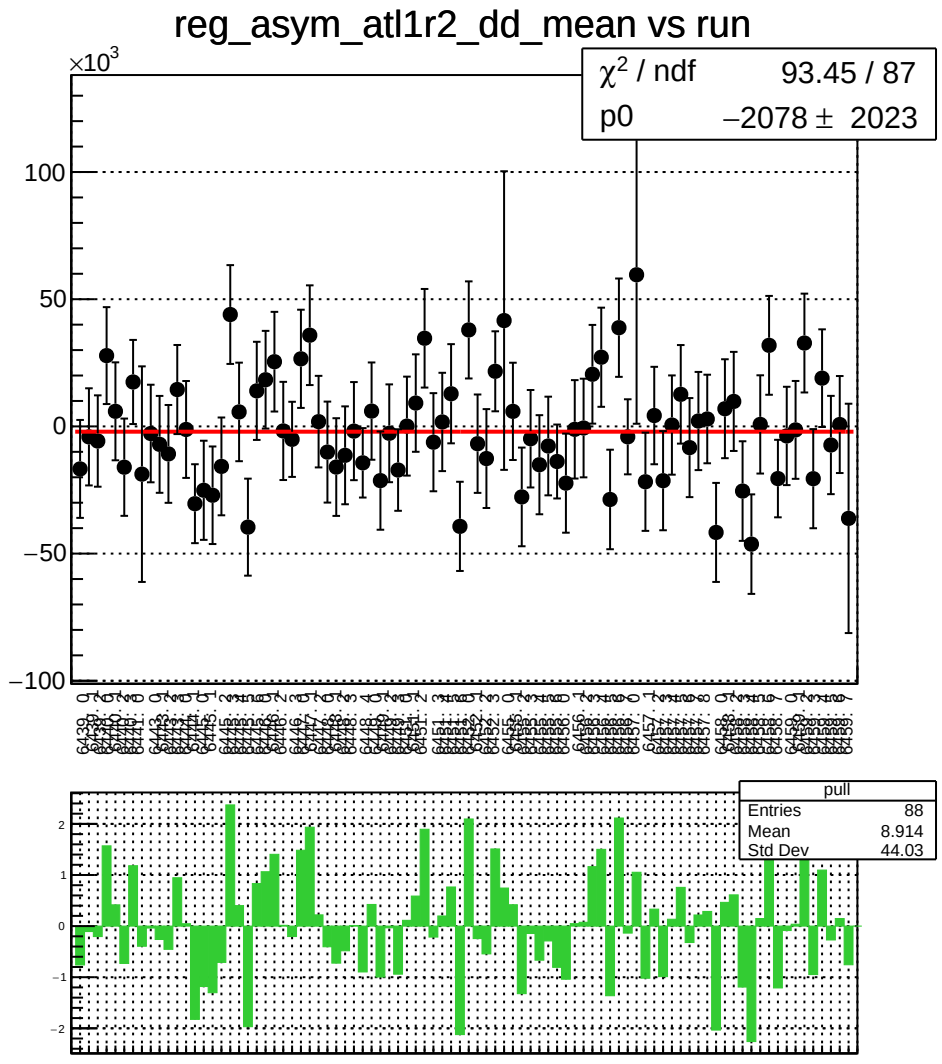

pull1D
Entries 88
Mean −0.00493
Std Dev 0.9008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

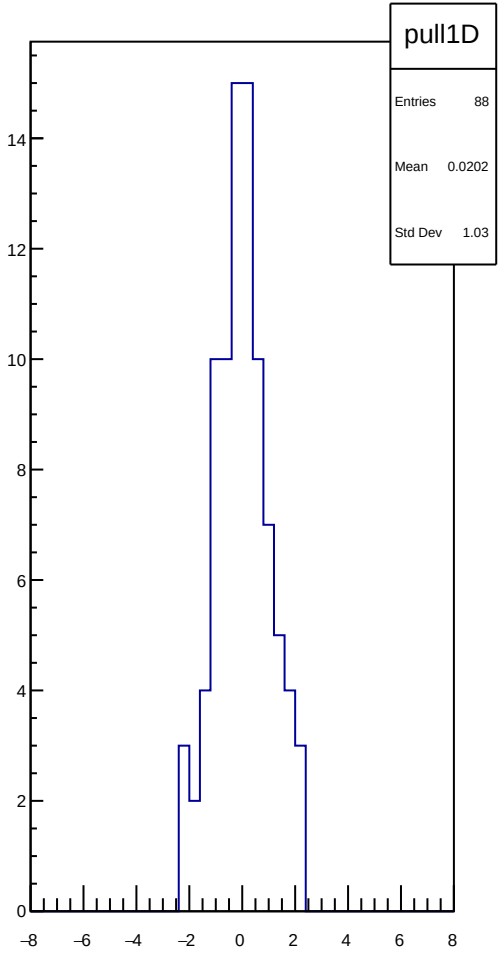

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 3496 / 87
p0 4436 ± 3.409
5000
4800
4600
4400
4200
4000
3800

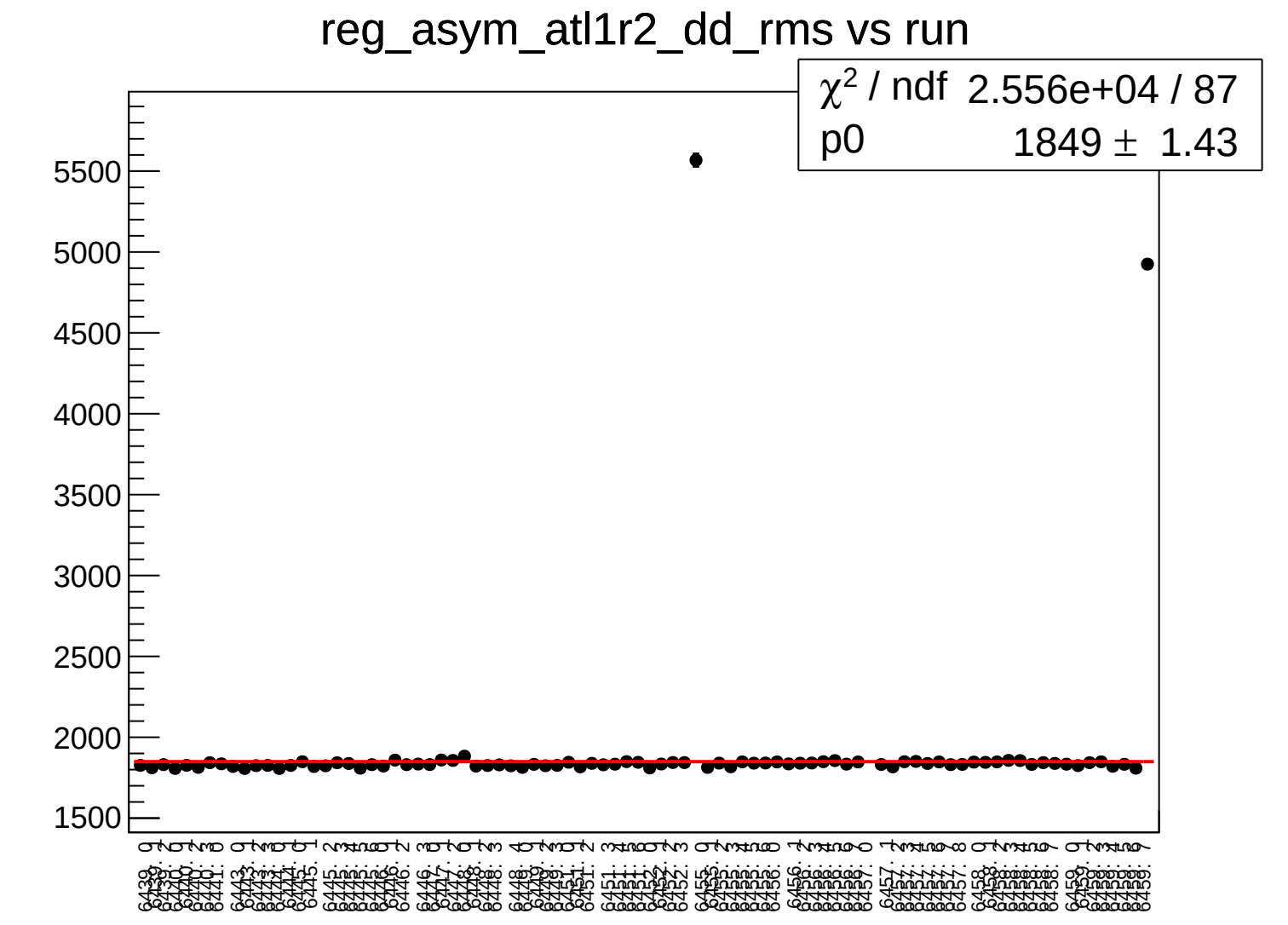

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 75.81 / 87
p0 7118 ± 5276
pull
Entries 88
Mean −1.027e+04
Std Dev 1.031e+04

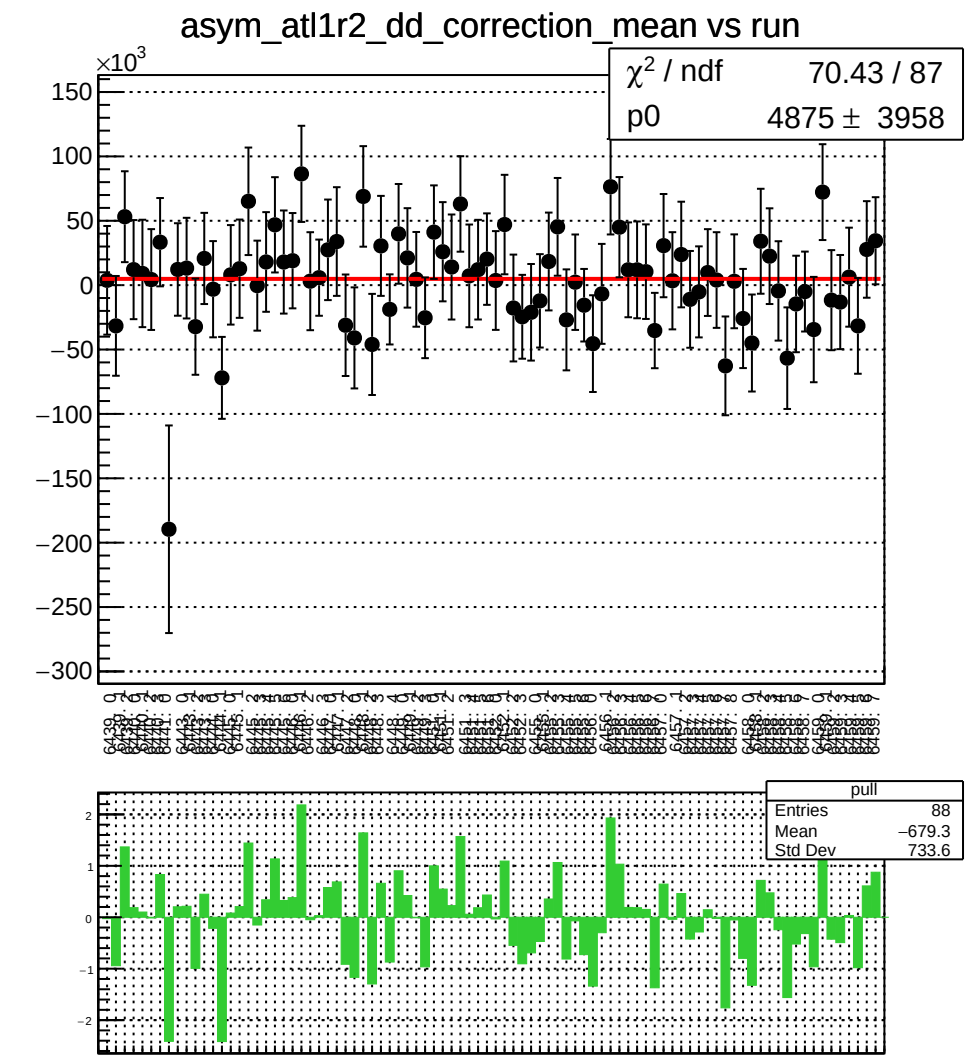

pull1D
Entries 88
Mean 0.0001229
Std Dev 0.9282

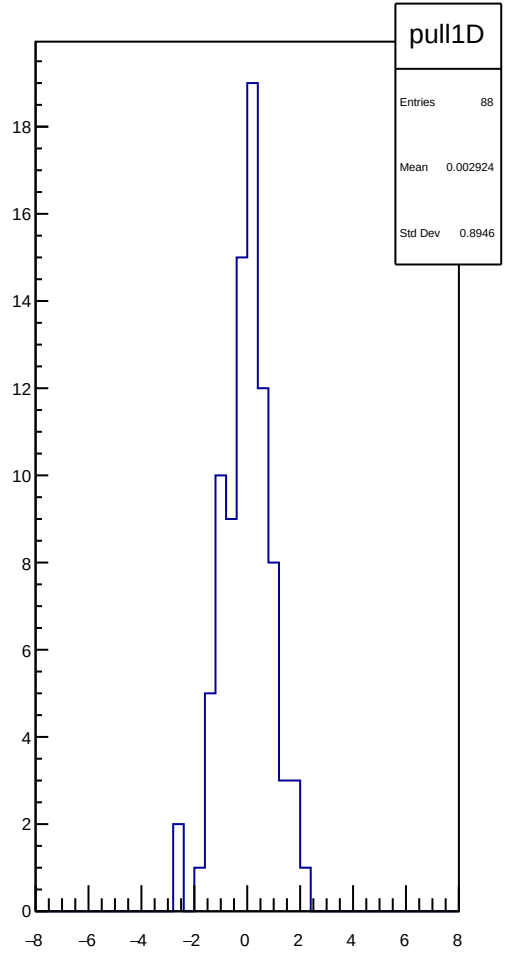

asym_atl1r2_avg_rms vs run
χ^2 / ndf 7970 / 87
p0 4848 ± 3.73
7500
7000
6500
6000
5500
5000
4500

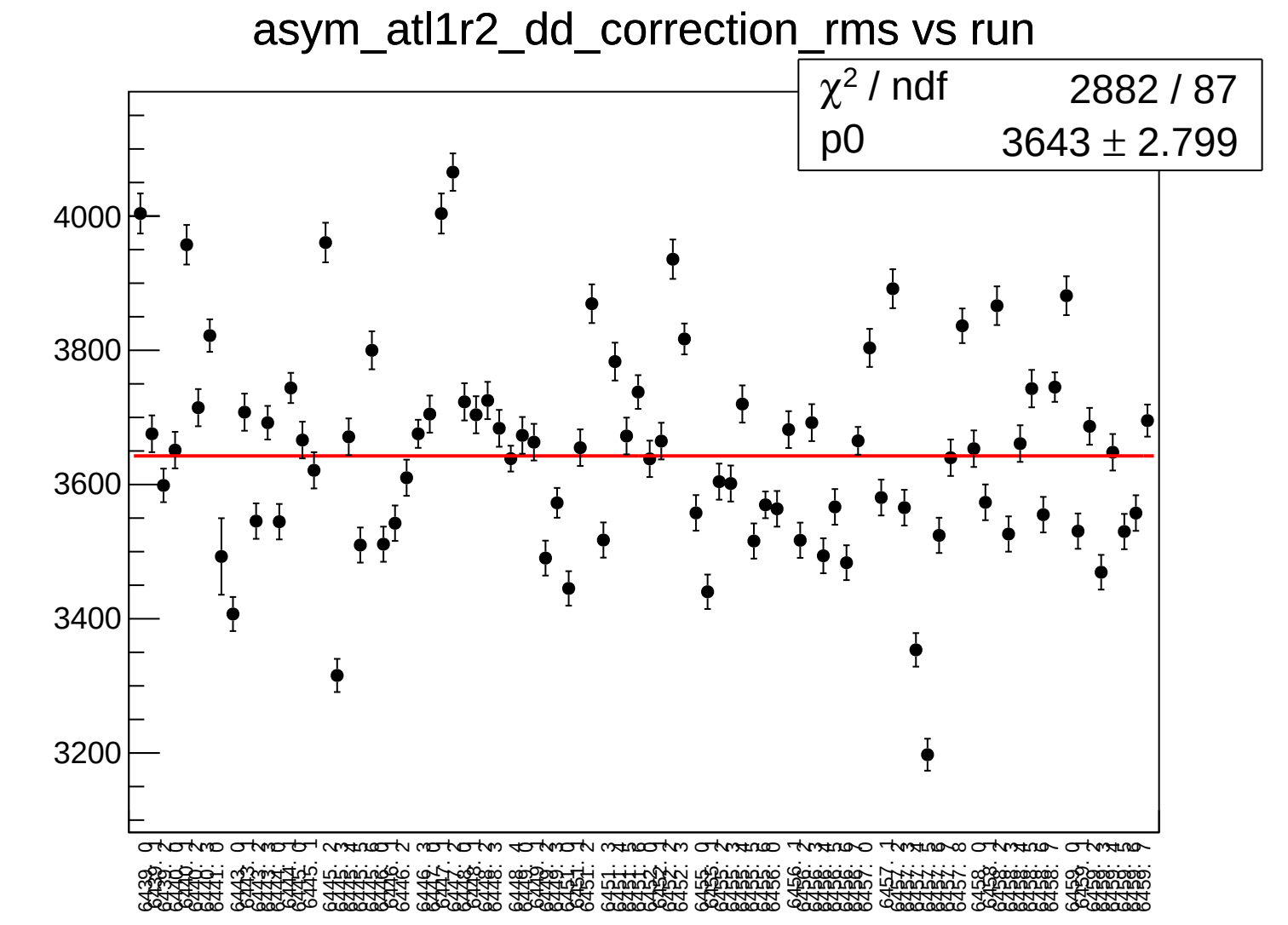

reg_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 93.45 / 87
p0 −2078 ± 2023
100
50
0
−50
−100
pull
Entries 88
Mean 8.914
Std Dev 44.03
2
1
0
−1
−2

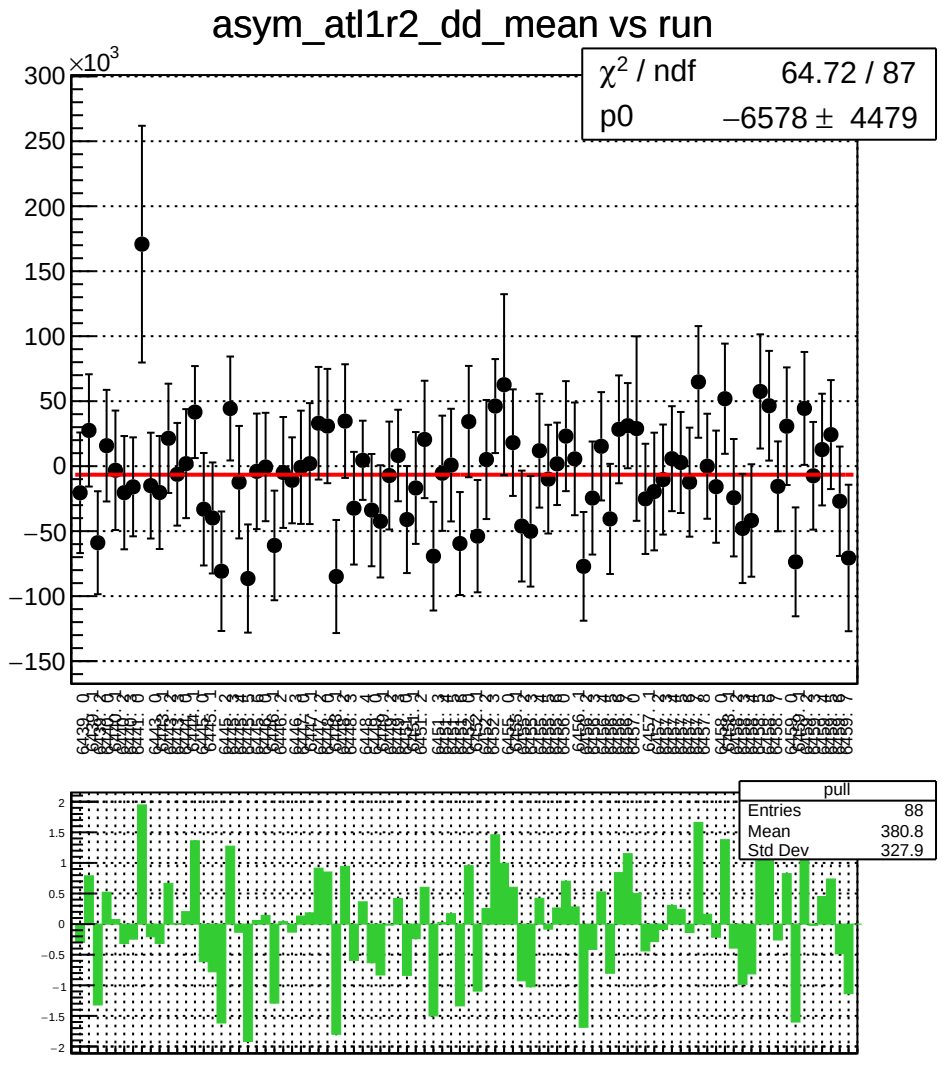

pull1D
Entries 88
Mean 0.0202
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

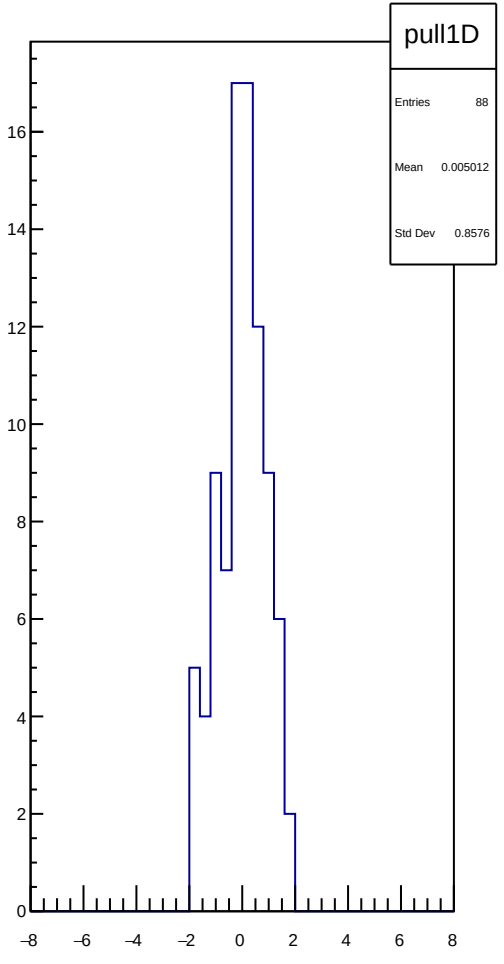

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 2.556e+04 / 87
p0 1849 ± 1.43
5500
5000
4500
4000
3500
3000
2500
2000
1500

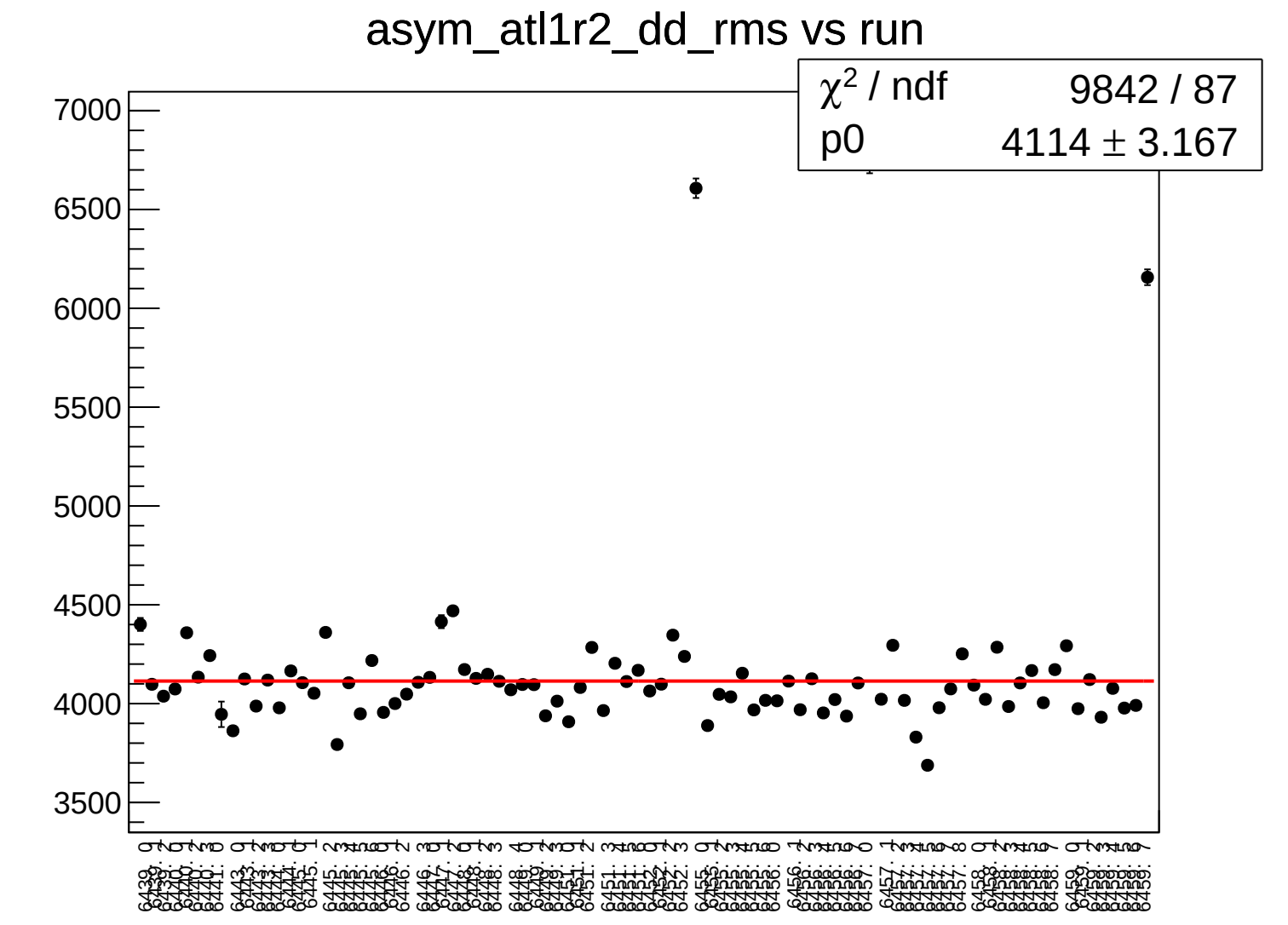

asym_atl1r2_dd_correction_mean vs run
×10^3
χ² / ndf 70.43 / 87
p0 4875 ± 3958
pull
Entries 88
Mean −679.3
Std Dev 733.6

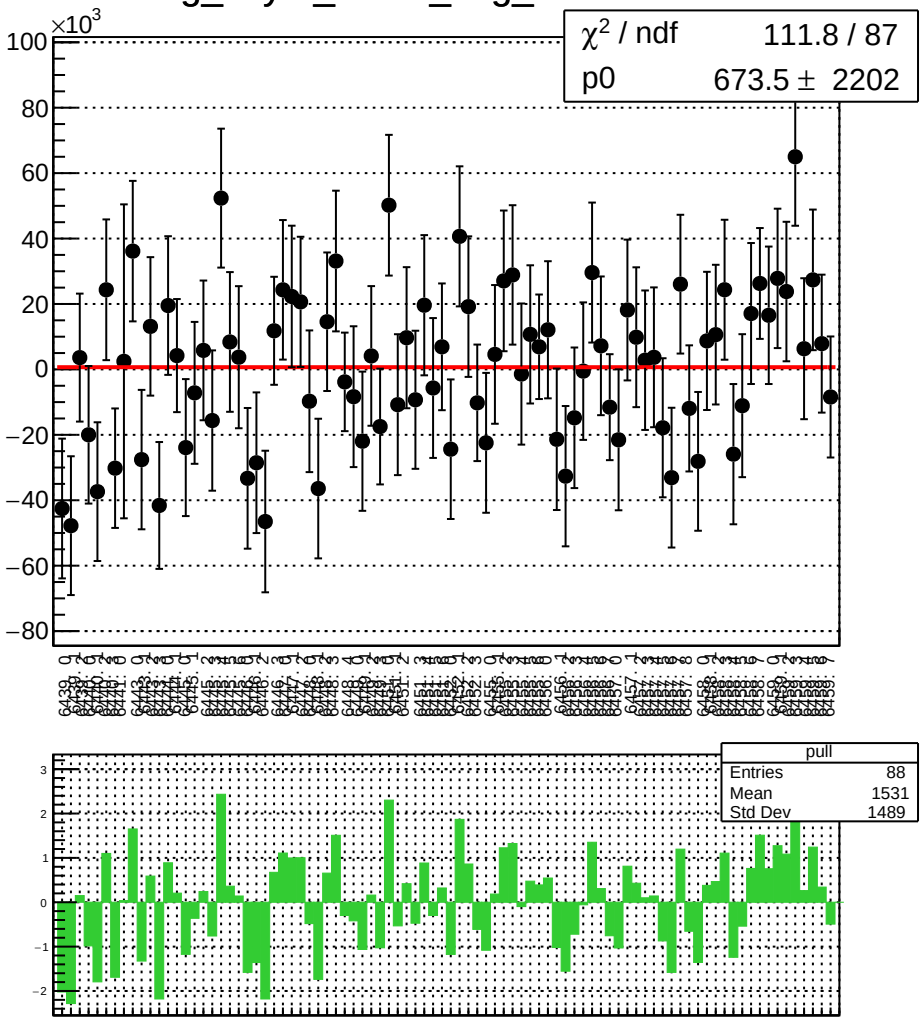

pull1D
Entries 88
Mean 0.002924
Std Dev 0.8946

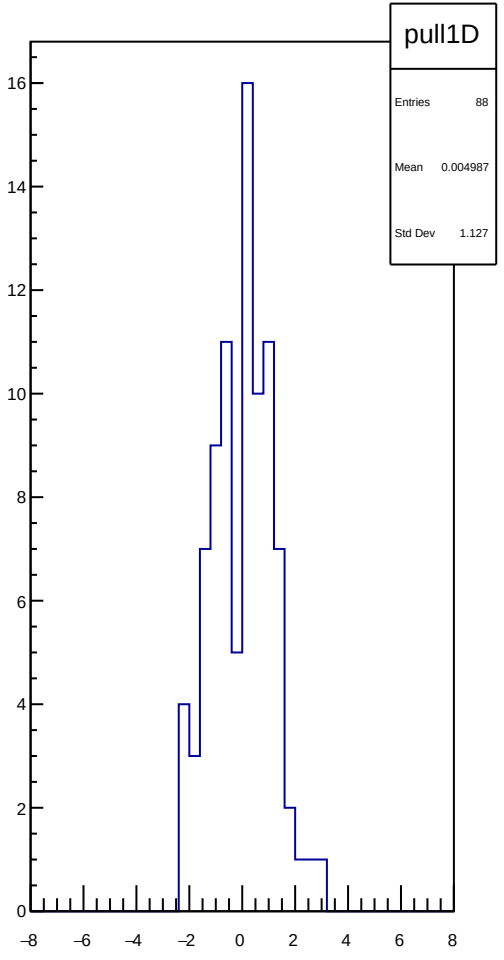

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 2882 / 87
p0 3643 ± 2.799
4000
3800
3600
3400
3200

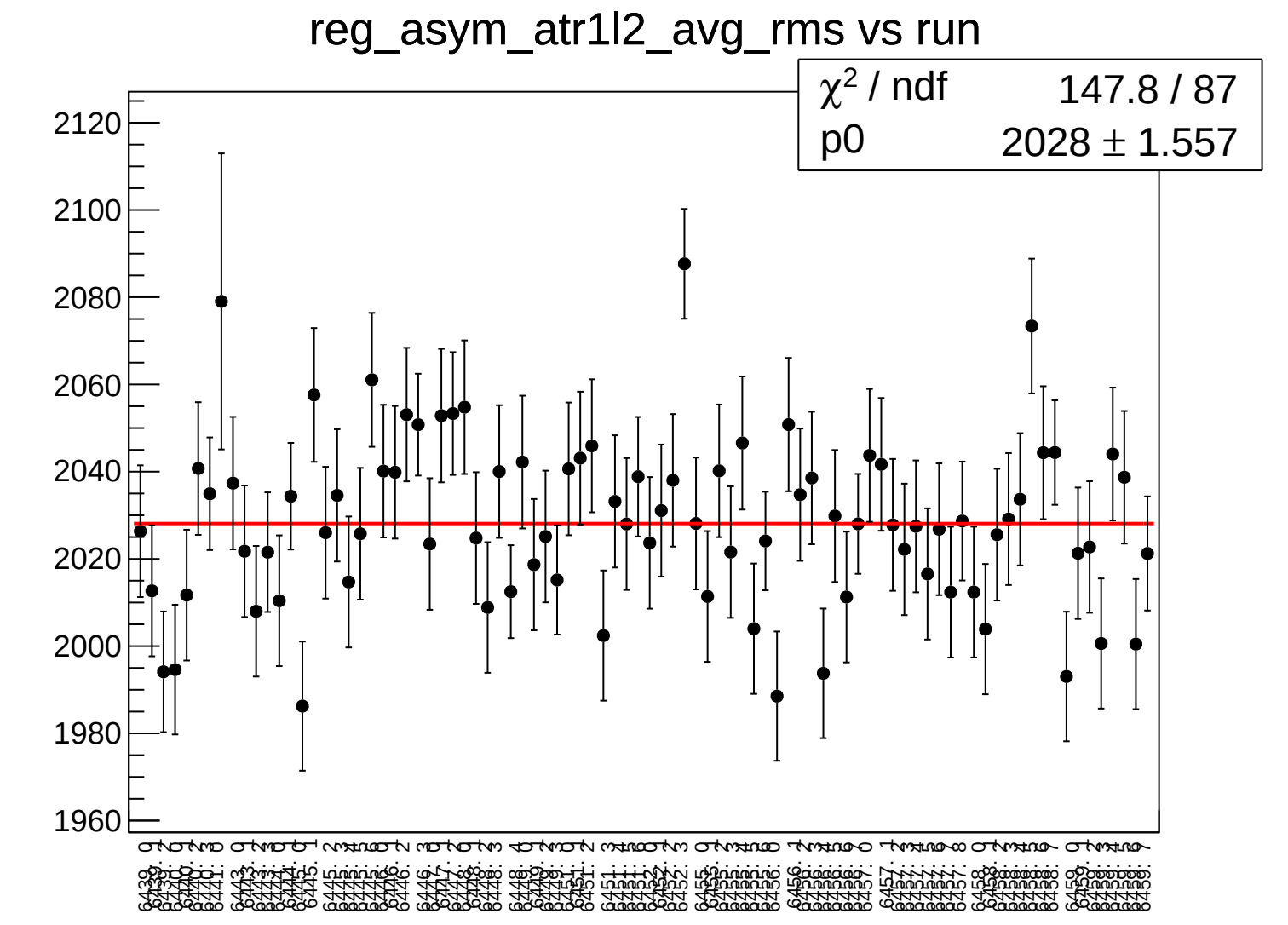

asym_atl1r2_dd_mean vs run
χ² / ndf 64.72 / 87
p0 −6578 ± 4479
×10³
pull
Entries 88
Mean 380.8
Std Dev 327.9

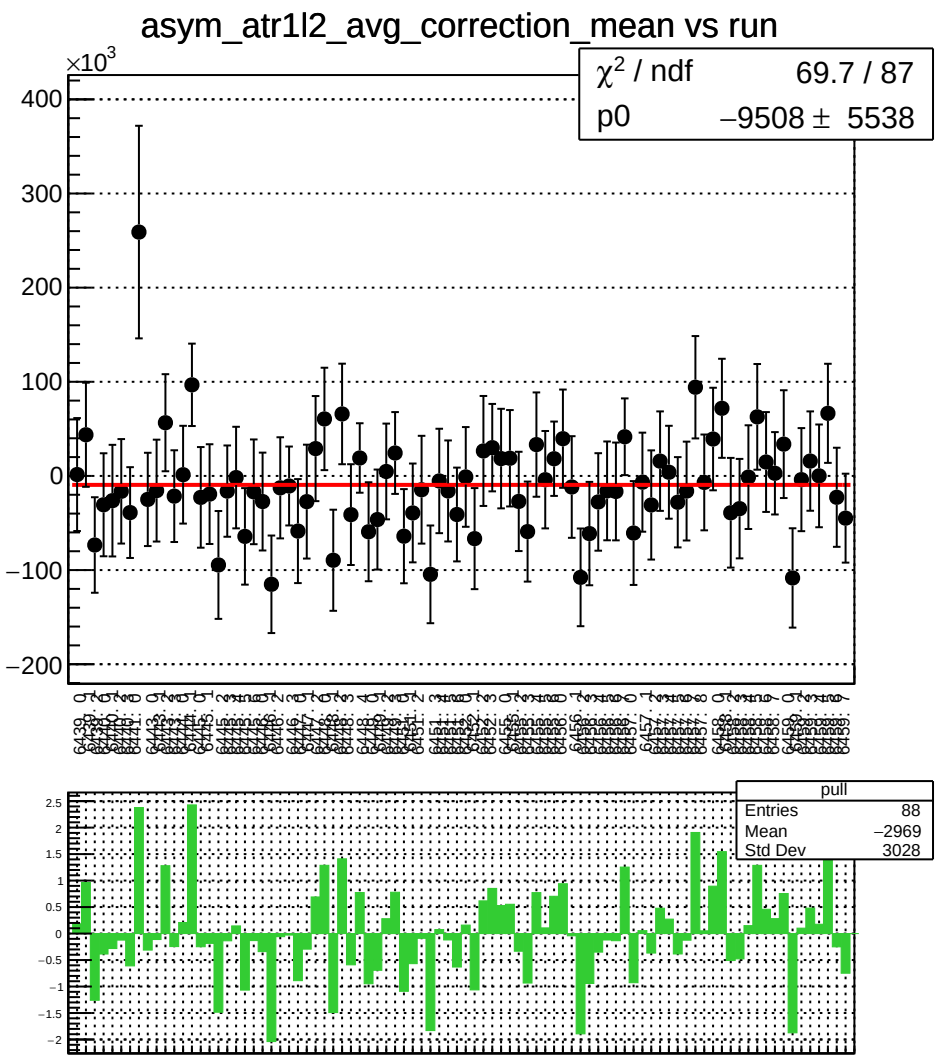

pull1D
Entries 88
Mean 0.005012
Std Dev 0.8576

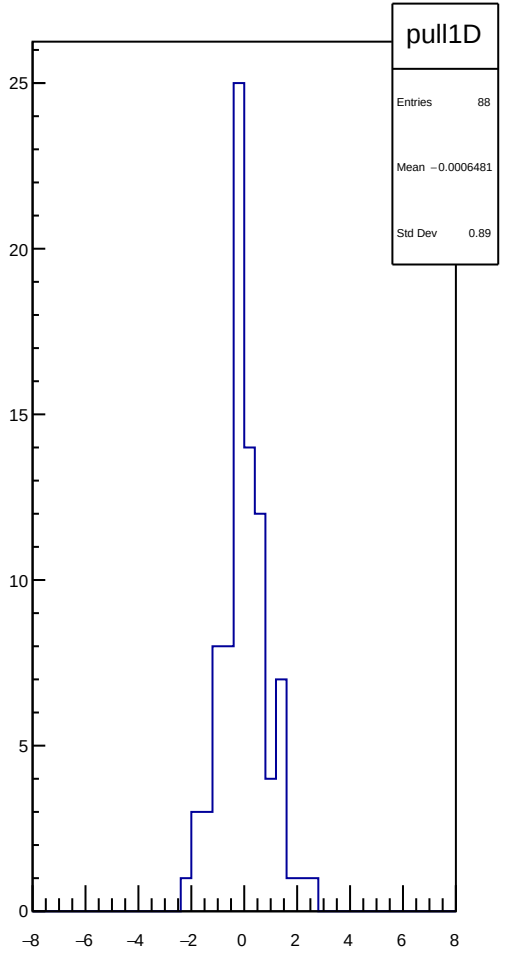

asym_atl1r2_dd_rms vs run
χ^2 / ndf 9842 / 87
p0 4114 ± 3.167
7000
6500
6000
5500
5000
4500
4000
3500

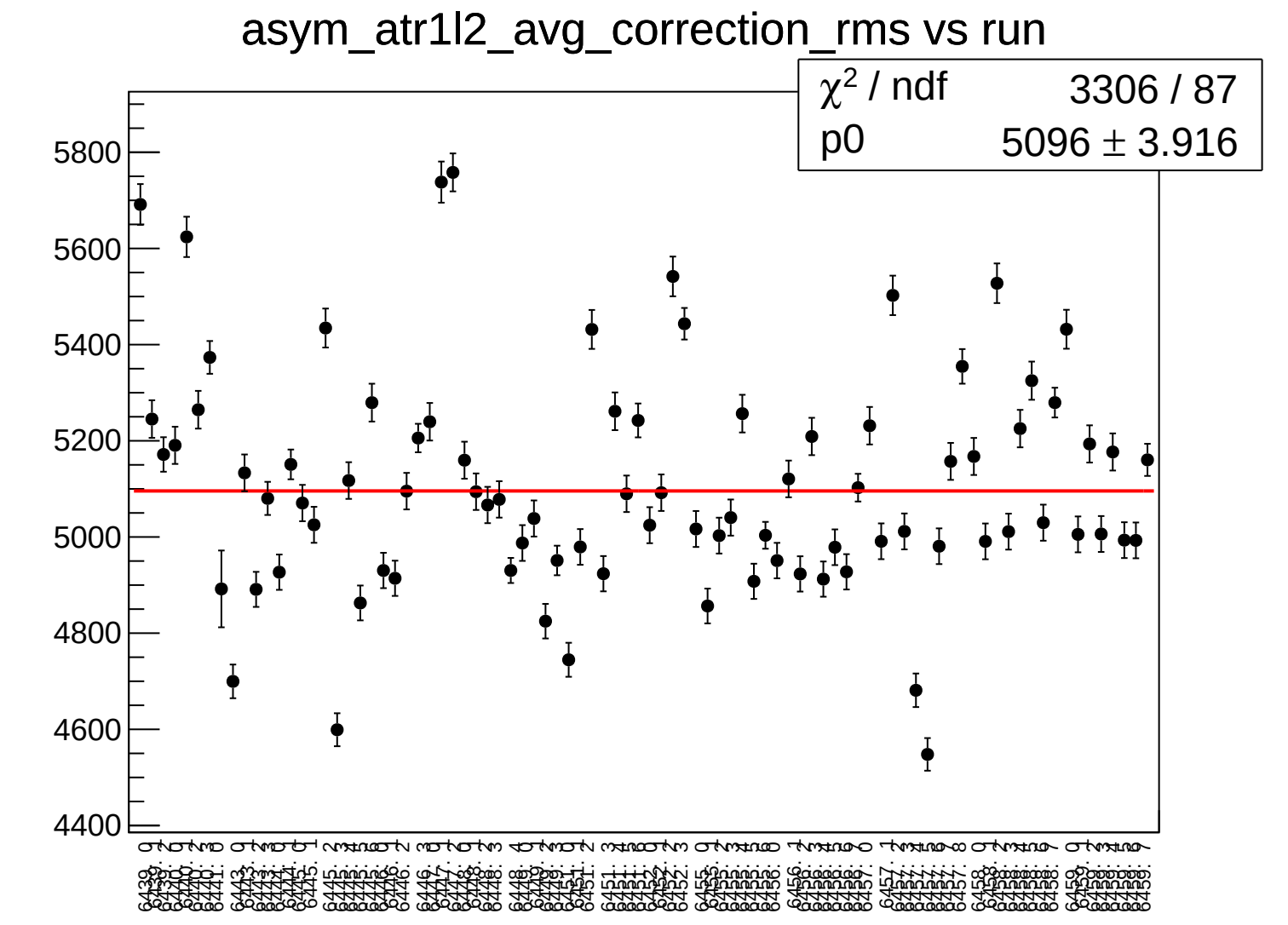

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 111.8 / 87
p0 673.5 ± 2202
×10³
pull
Entries 88
Mean 1531
Std Dev 1489

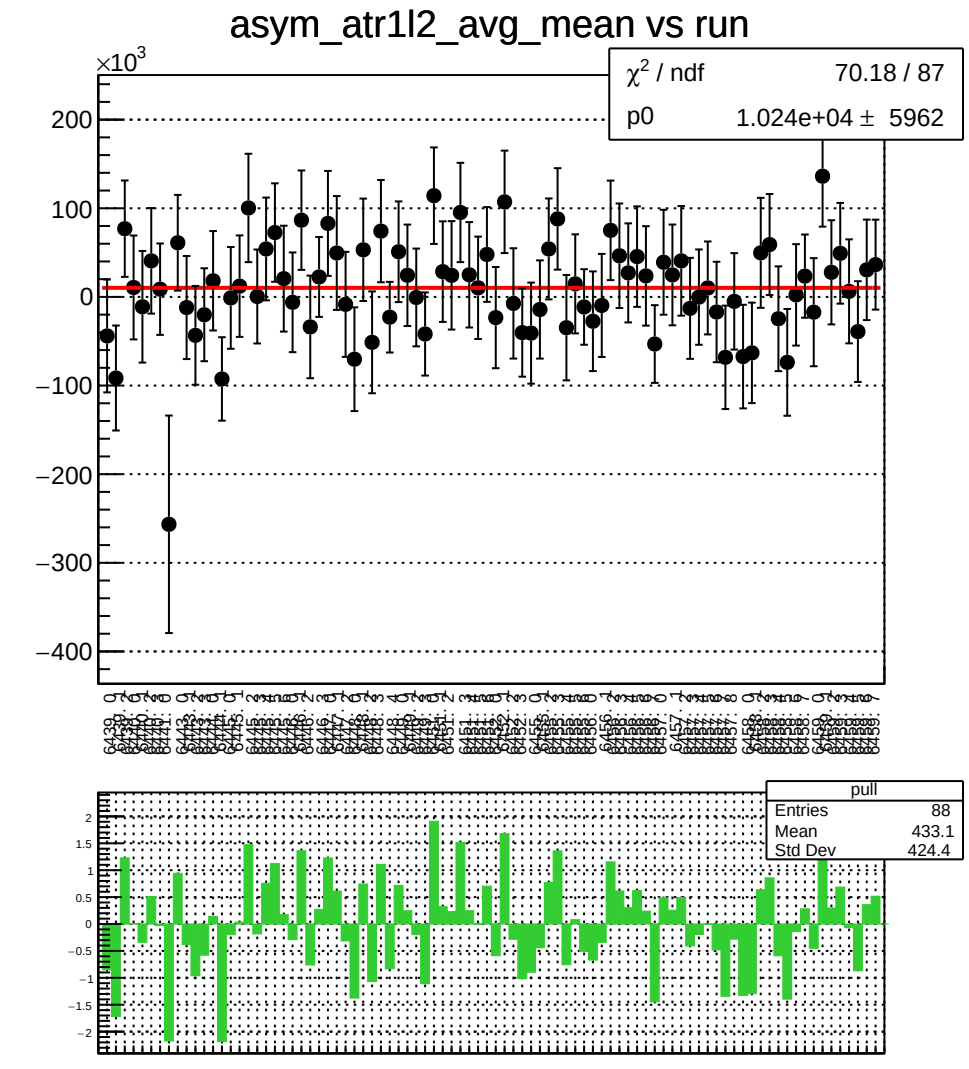

pull1D
Entries 88
Mean 0.004987
Std Dev 1.127

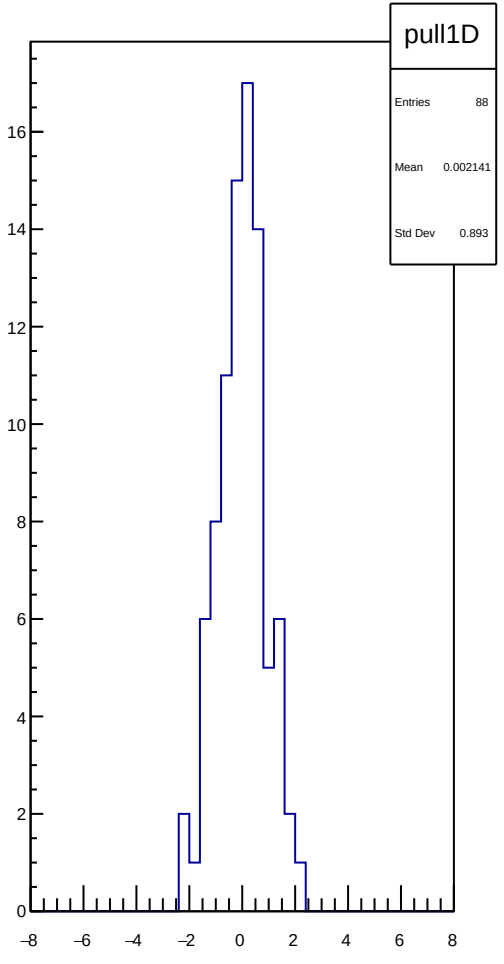

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 147.8 / 87
p0 2028 ± 1.557
2120
2100
2080
2060
2040
2020
2000
1980
1960

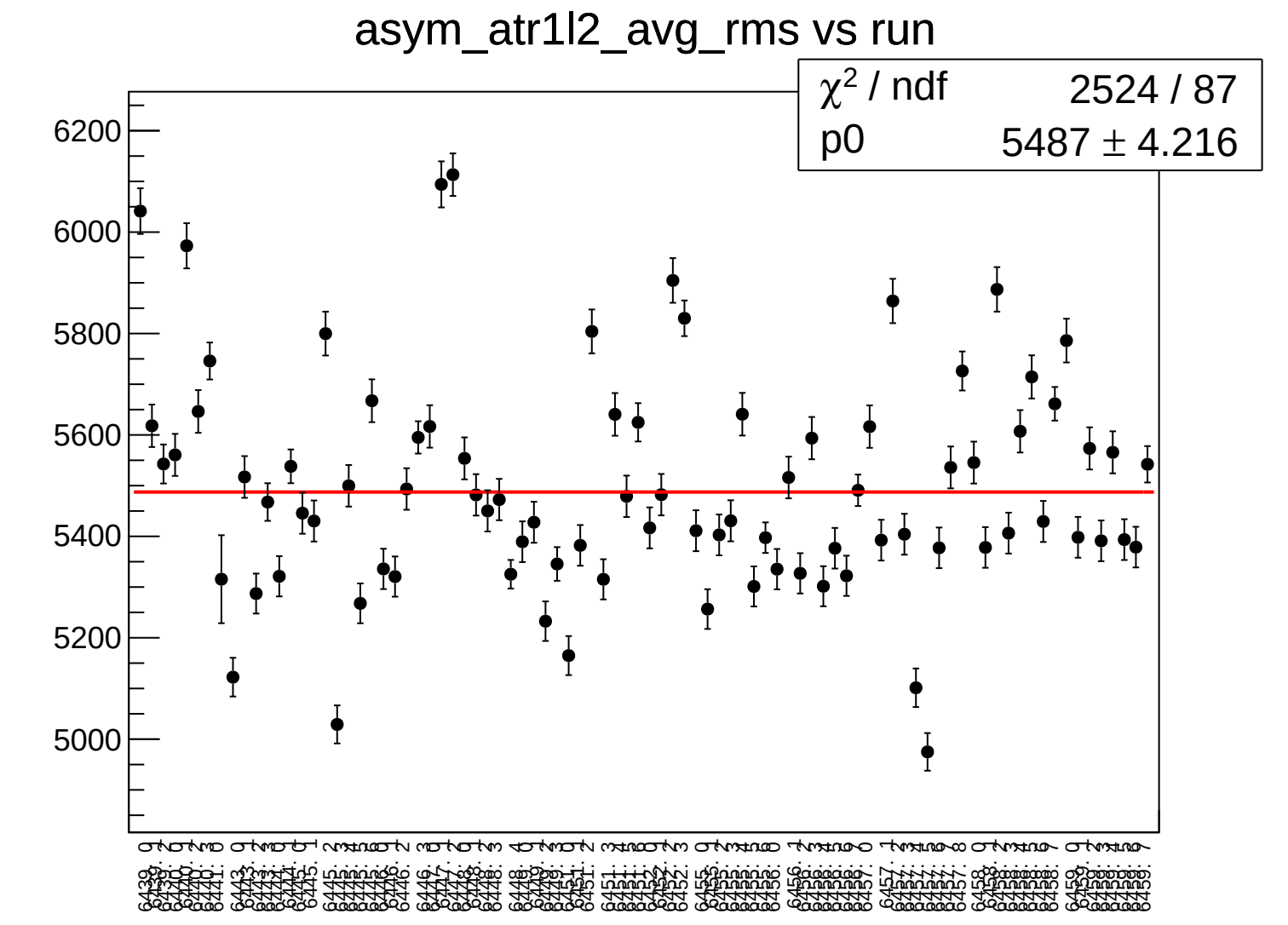

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 69.7 / 87
p0 −9508 ± 5538
400
300
200
100
0
−100
−200
pull
Entries 88
Mean −2969
Std Dev 3028
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

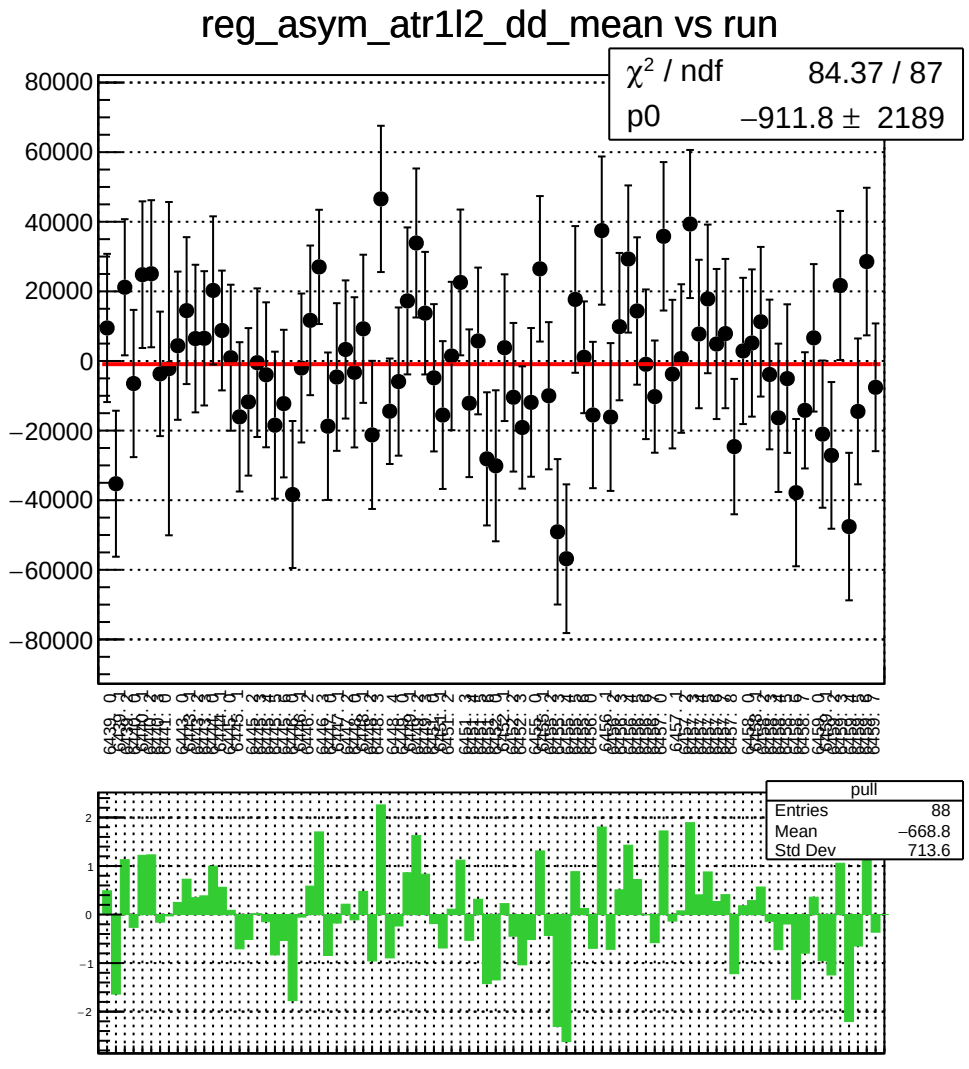

pull1D
Entries 88
Mean −0.0006481
Std Dev 0.89
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

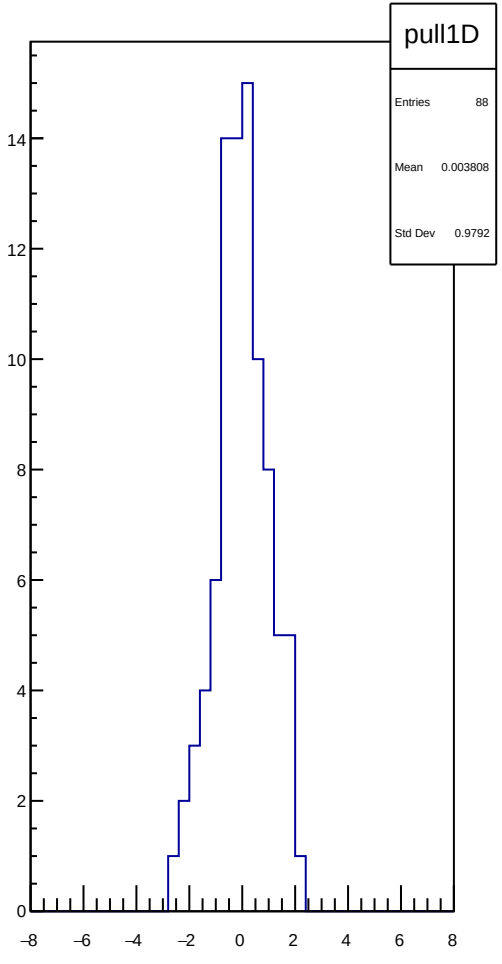

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 3306 / 87
p0 5096 ± 3.916
5800
5600
5400
5200
5000
4800
4600
4400

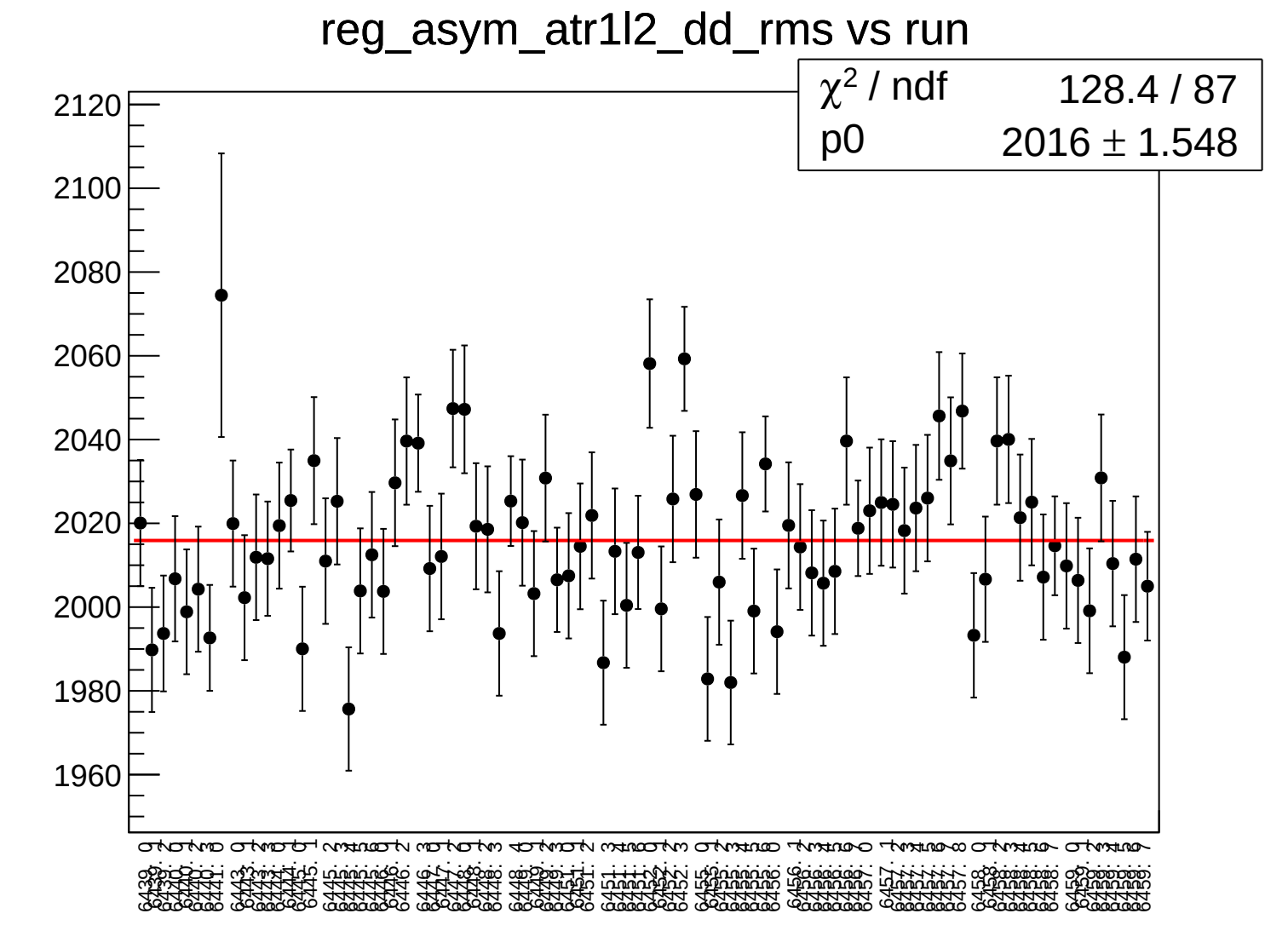

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 70.18 / 87
p0 1.024e+04 ± 5962
pull
Entries 88
Mean 433.1
Std Dev 424.4

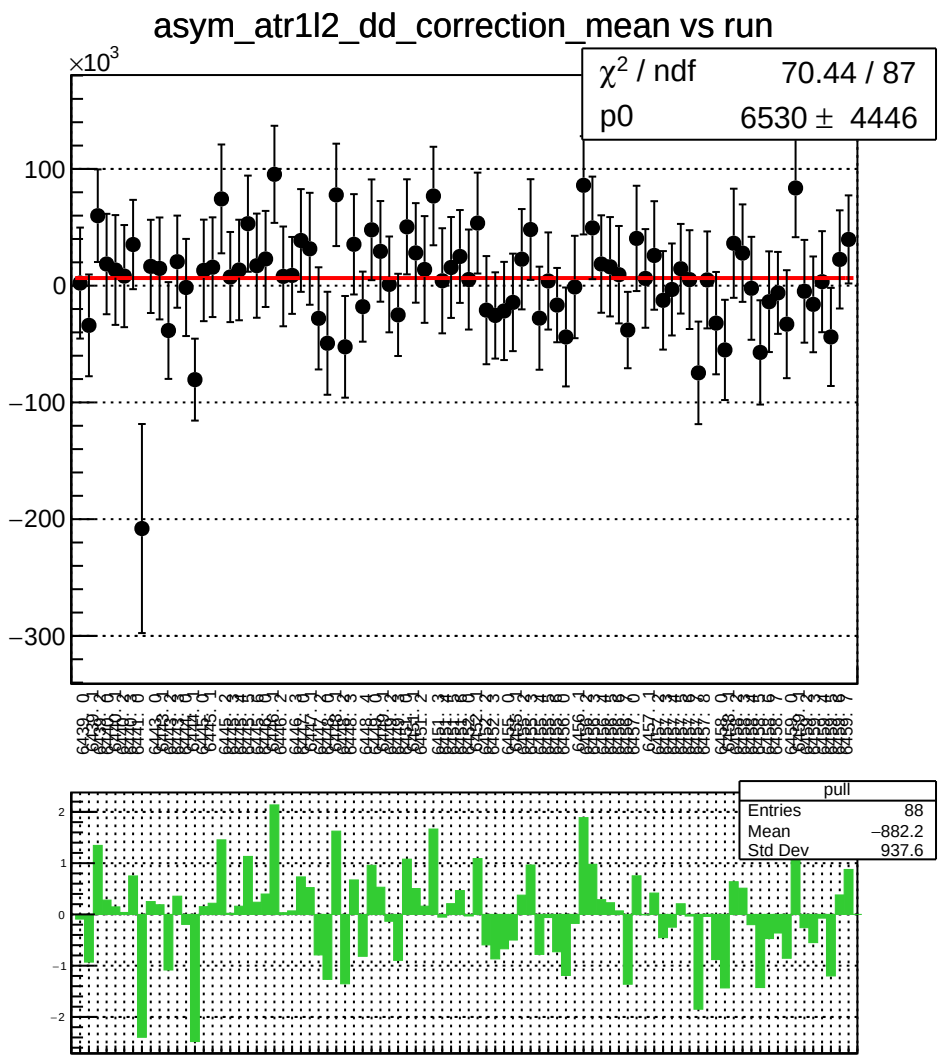

pull1D
Entries 88
Mean 0.002141
Std Dev 0.893

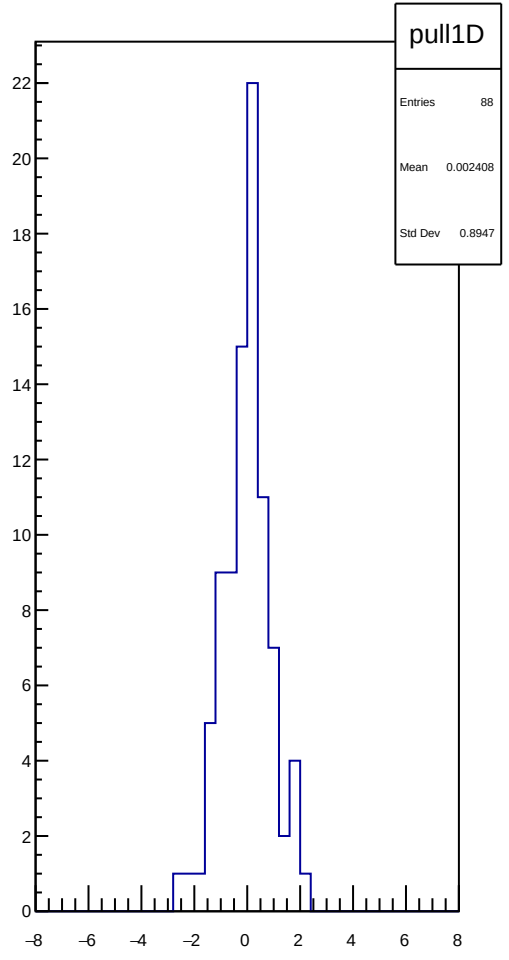

asym_atr1l2_avg_rms vs run
χ² / ndf 2524 / 87
p0 5487 ± 4.216
6200
6000
5800
5600
5400
5200
5000

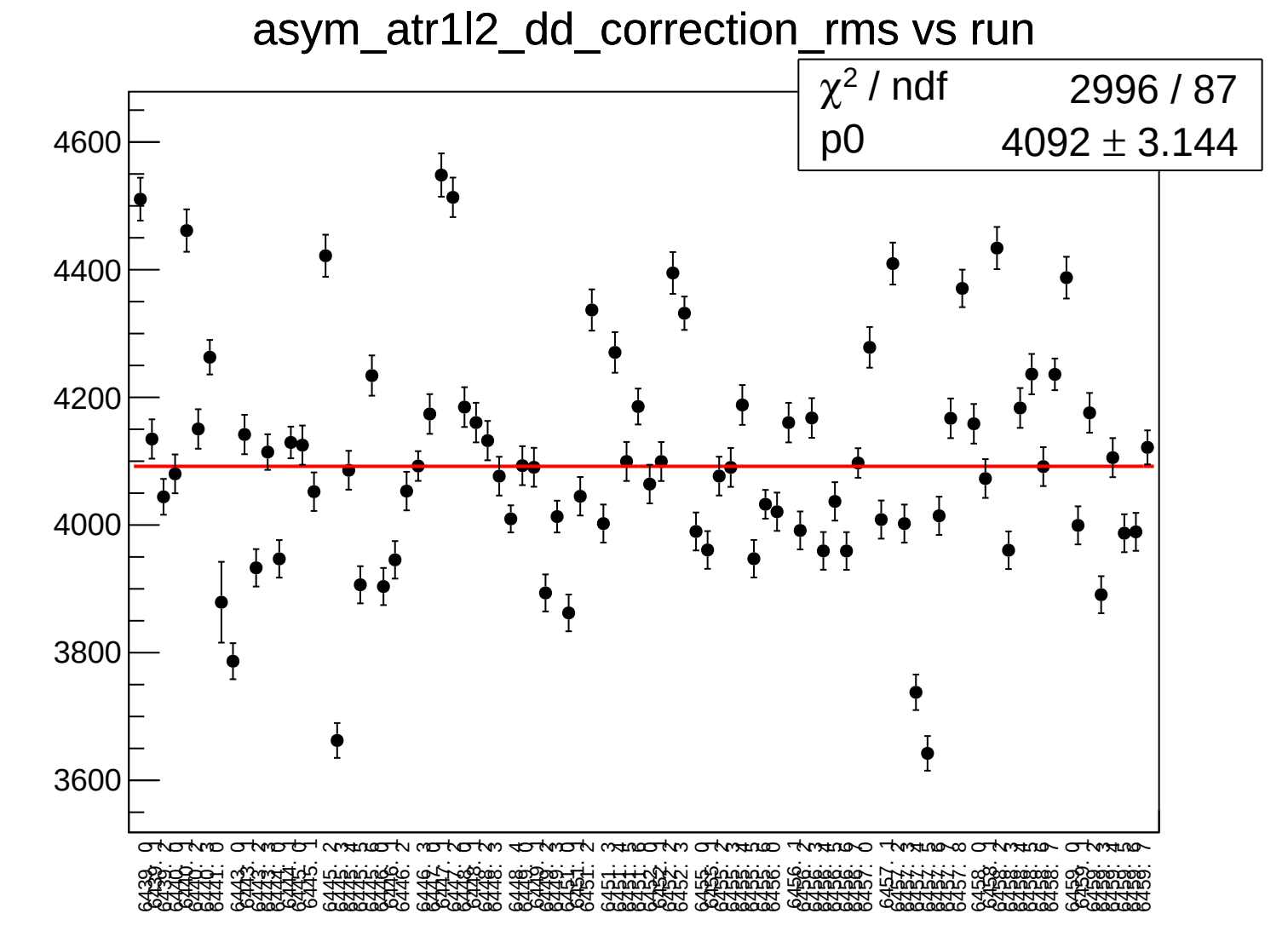

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 84.37 / 87
p0 −911.8 ± 2189
pull
Entries 88
Mean −668.8
Std Dev 713.6

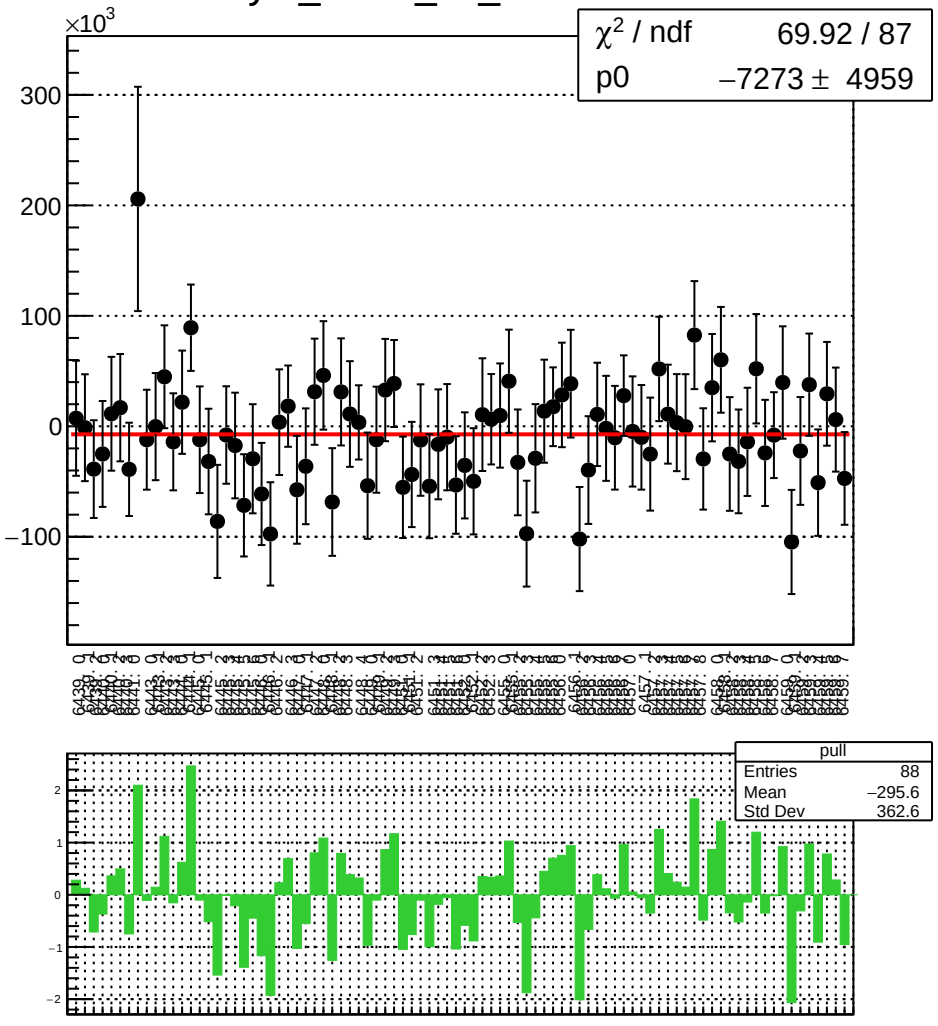

pull1D
Entries 88
Mean 0.003808
Std Dev 0.9792

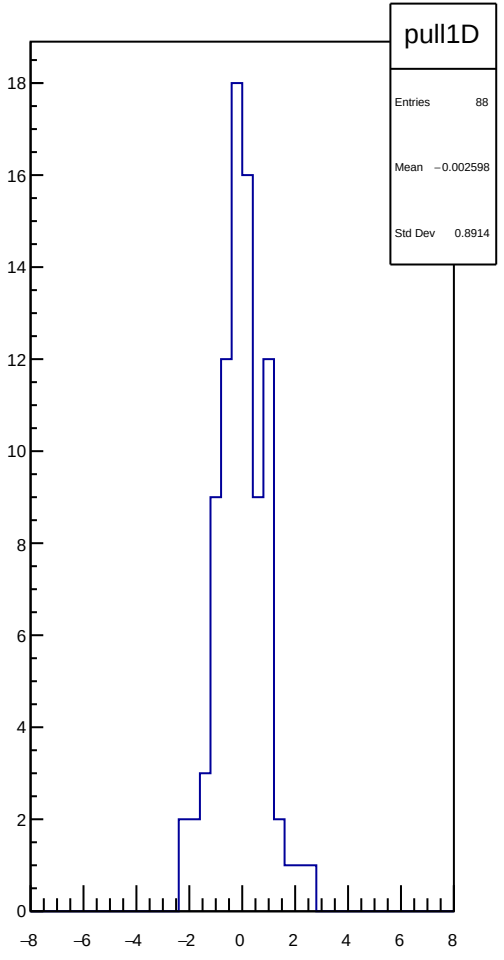

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 128.4 / 87
p0 2016 ± 1.548
2120
2100
2080
2060
2040
2020
2000
1980
1960

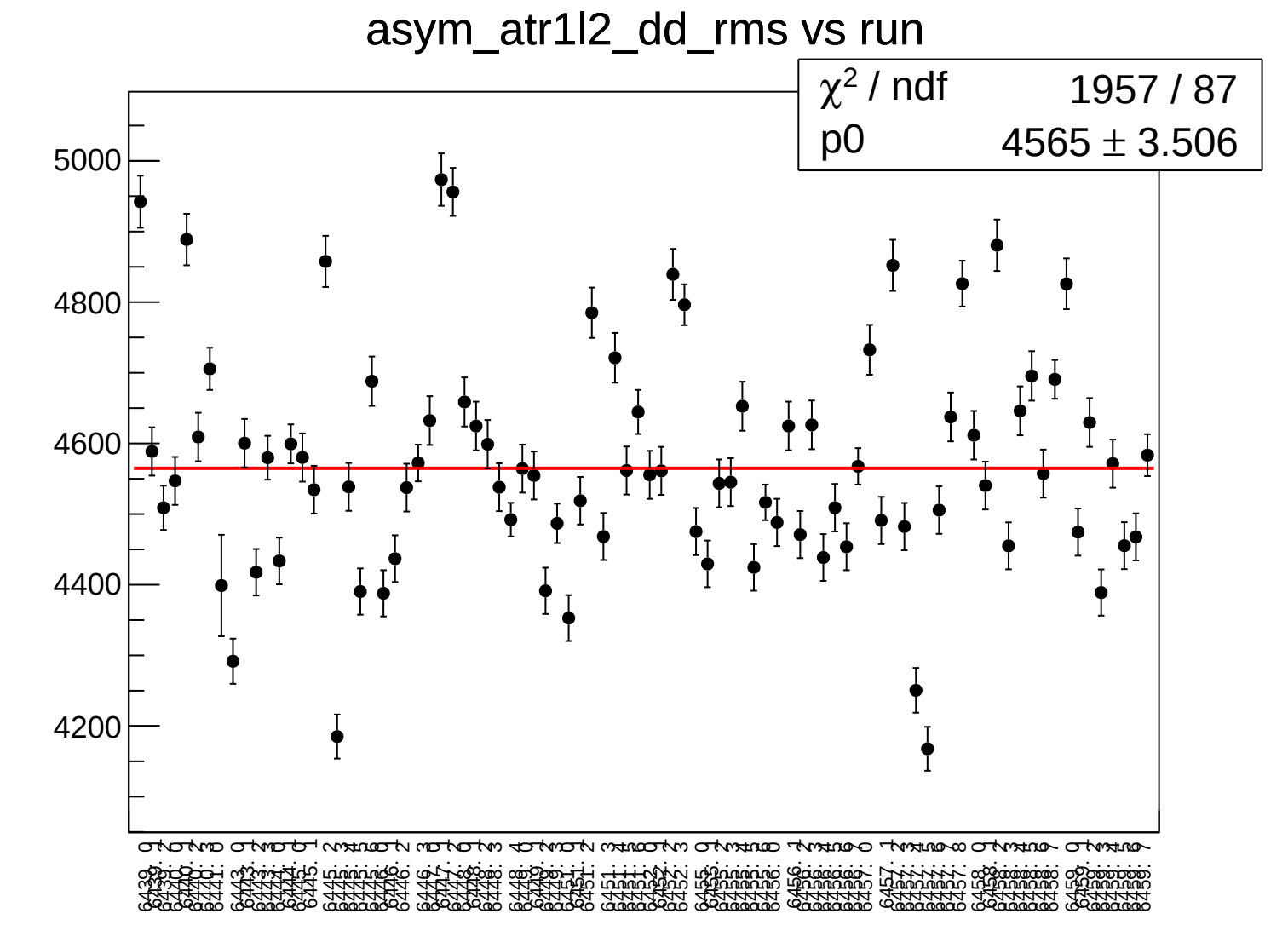

asym_atr1l2_dd_correction_mean vs run
×10^3
χ² / ndf 70.44 / 87
p0 6530 ± 4446
100
0
−100
−200
−300
pull
Entries 88
Mean −882.2
Std Dev 937.6
2
1
0
−1
−2

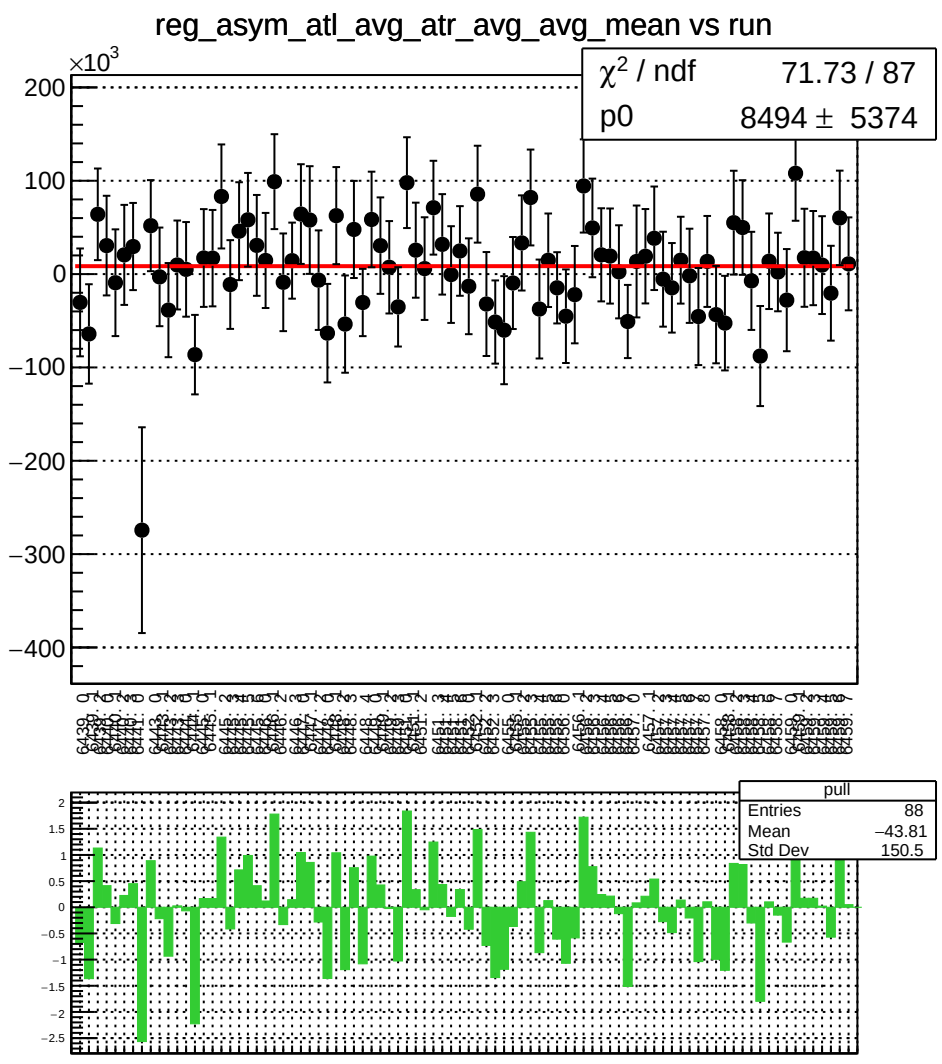

pull1D
Entries 88
Mean 0.002408
Std Dev 0.8947
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

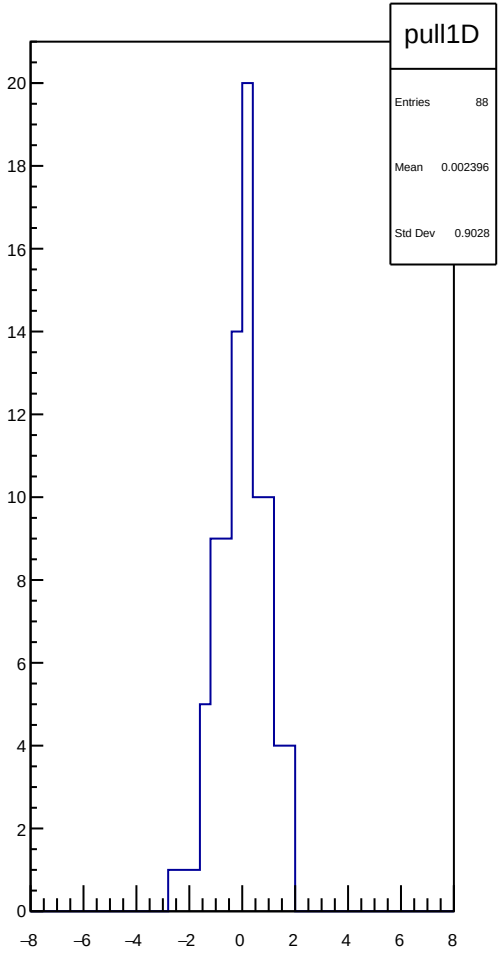

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 2996 / 87
p0 4092 ± 3.144
4600
4400
4200
4000
3800
3600

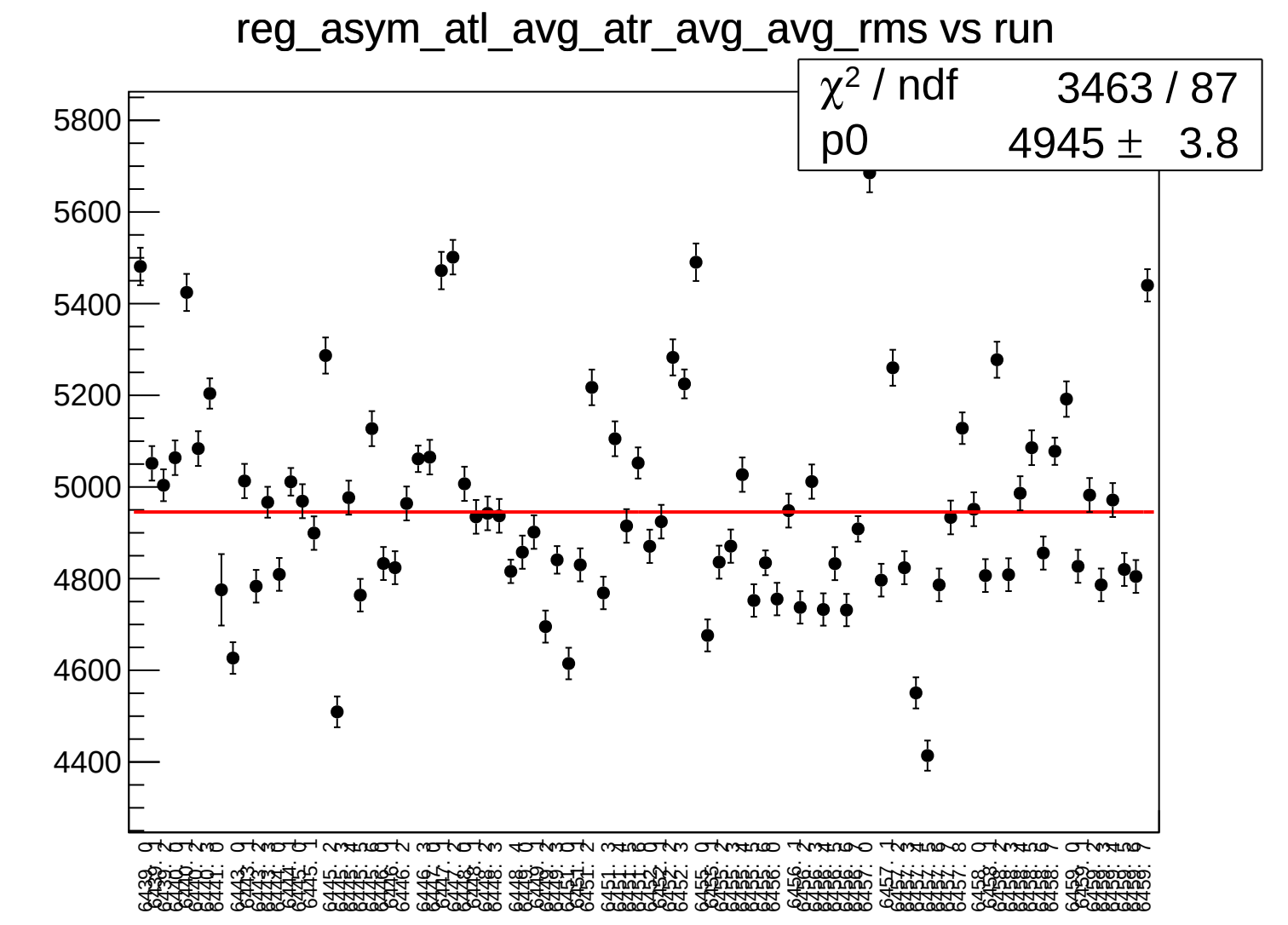

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 69.92 / 87
p0 −7273 ± 4959
300
200
100
0
−100
pull
Entries 88
Mean −295.6
Std Dev 362.6
2
1
0
−1
−2

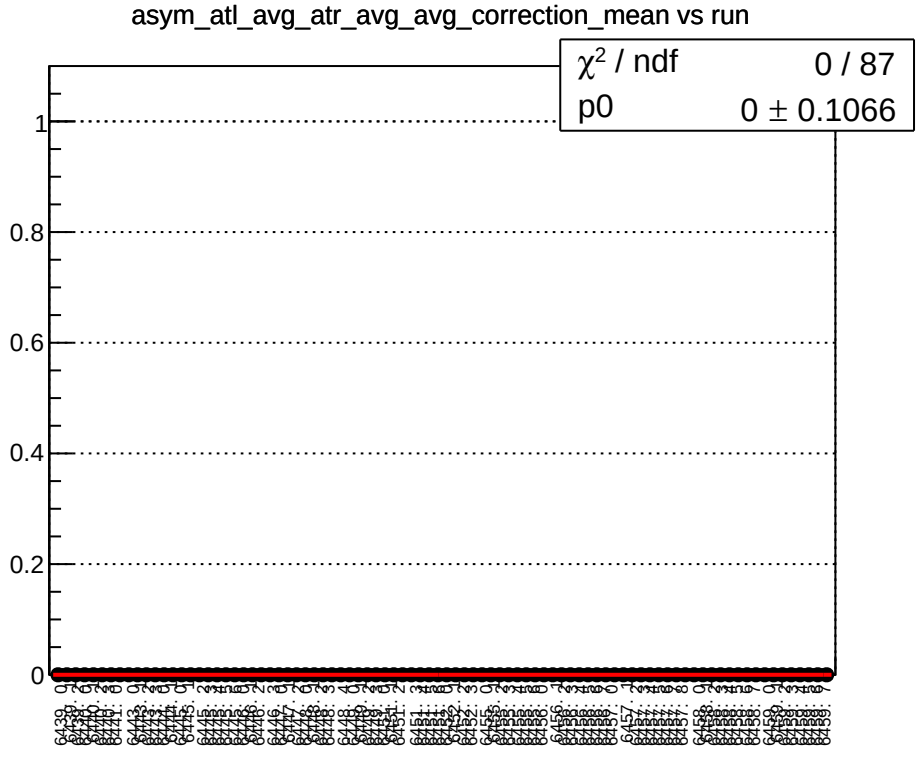

pull1D
Entries 88
Mean −0.002598
Std Dev 0.8914
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

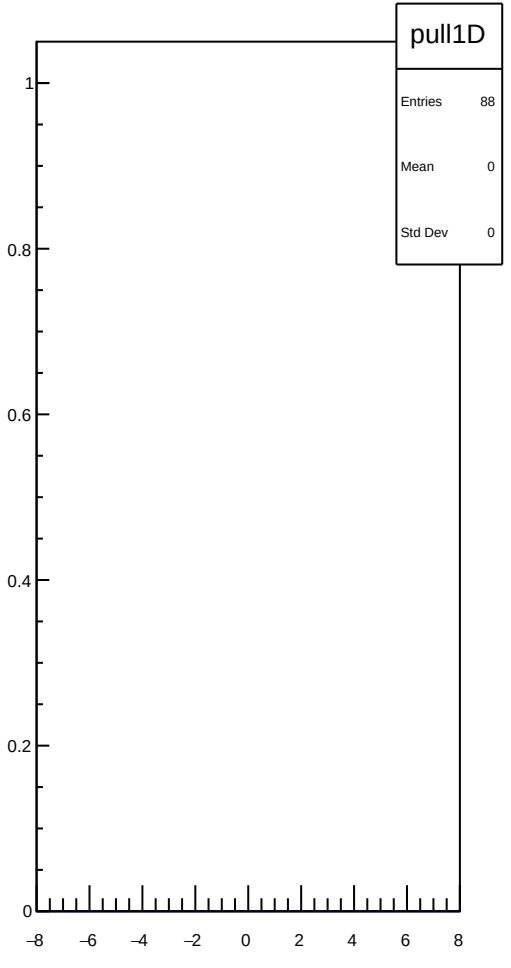

asym_atr1l2_dd_rms vs run
χ^2 / ndf 1957 / 87
p0 4565 ± 3.506
5000
4800
4600
4400
4200

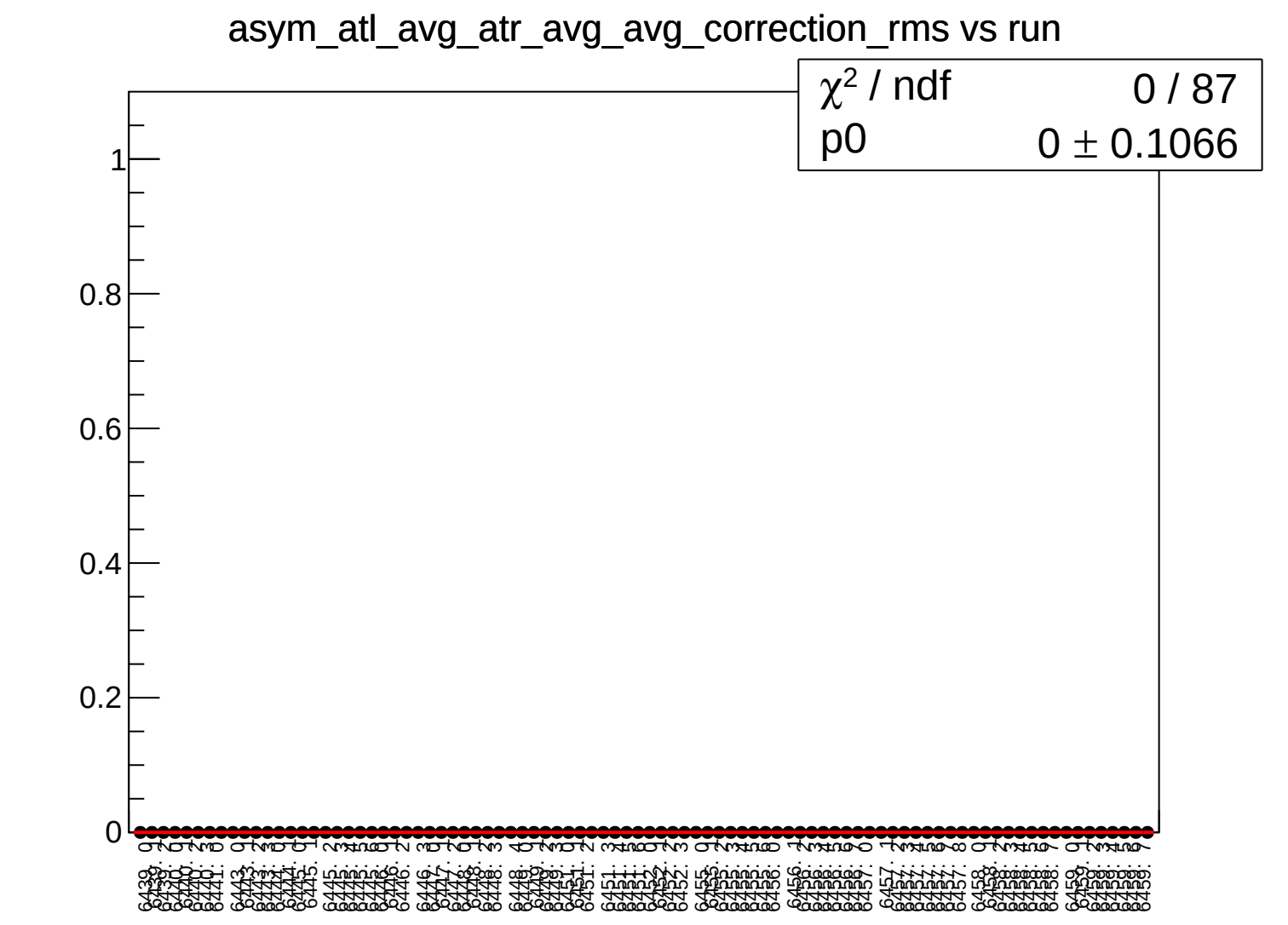

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 71.73 / 87
p0 8494 ± 5374
pull
Entries 88
Mean −43.81
Std Dev 150.5

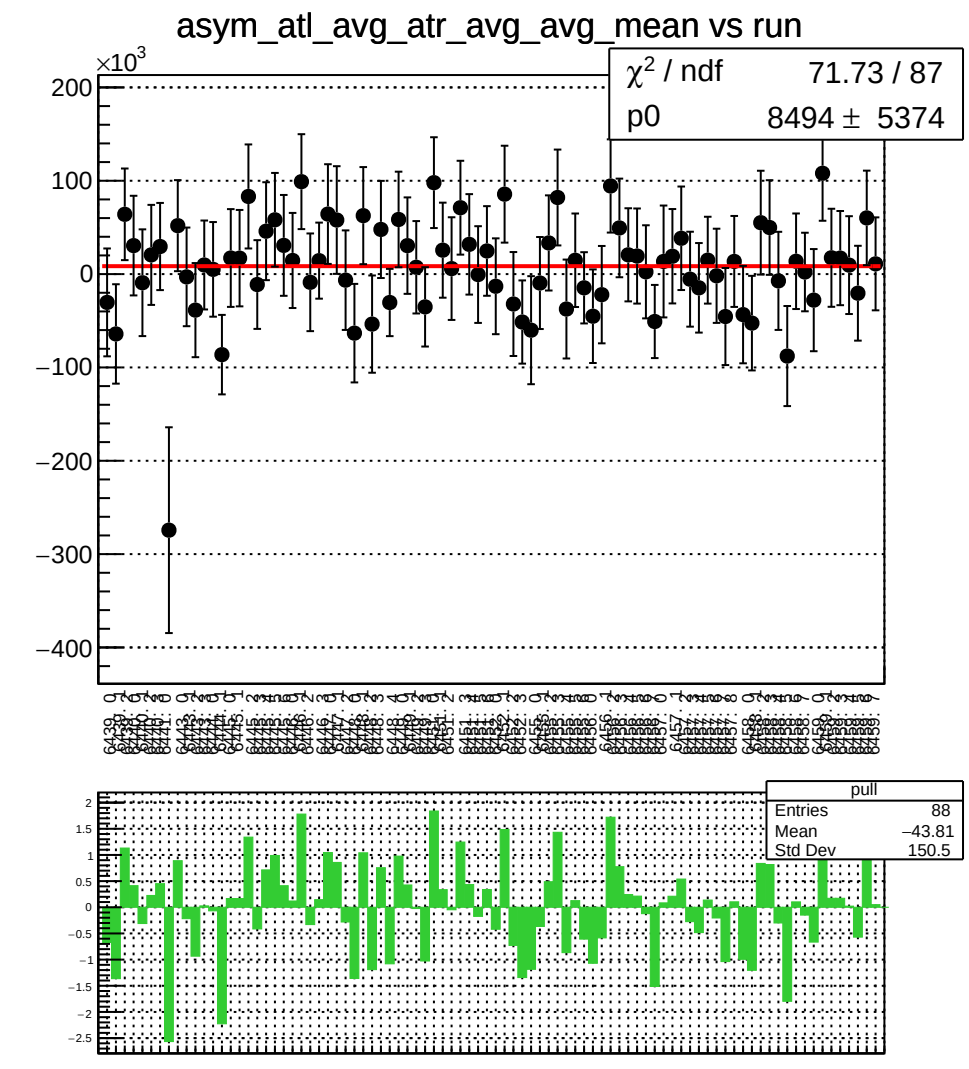

pull1D
Entries 88
Mean 0.002396
Std Dev 0.9028

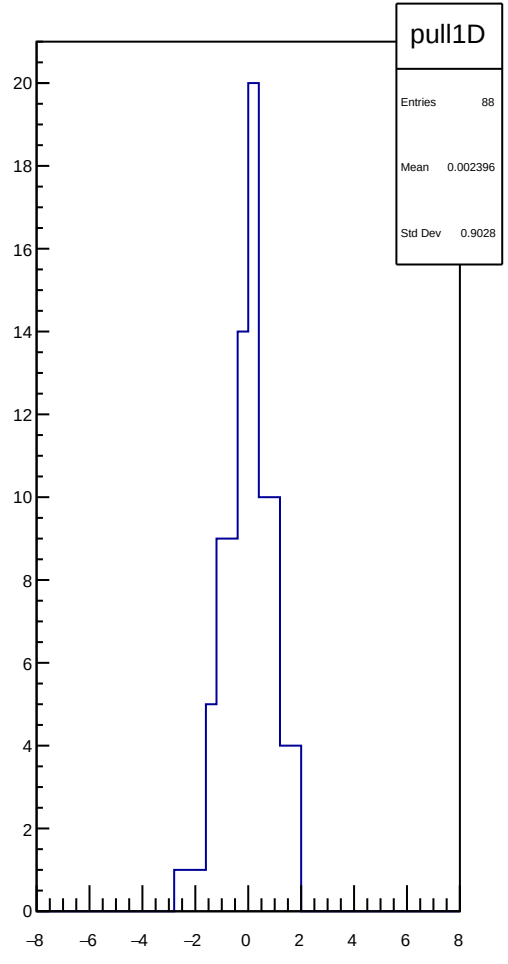

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3463 / 87
p0 4945 ± 3.8
5800
5600
5400
5200
5000
4800
4600
4400

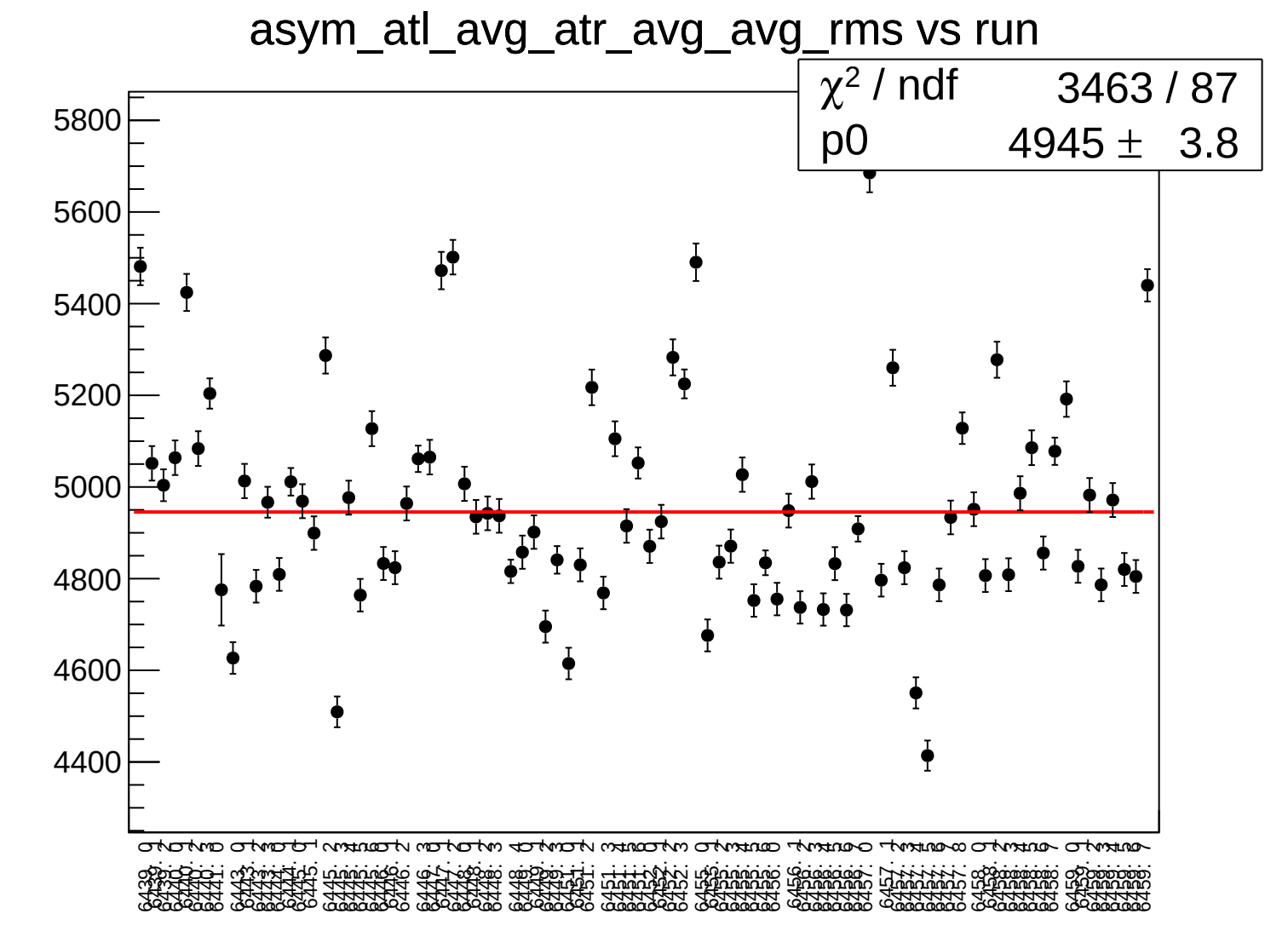

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 87
p0 0 ± 0.1066
1
0.8
0.6
0.4
0.2
0

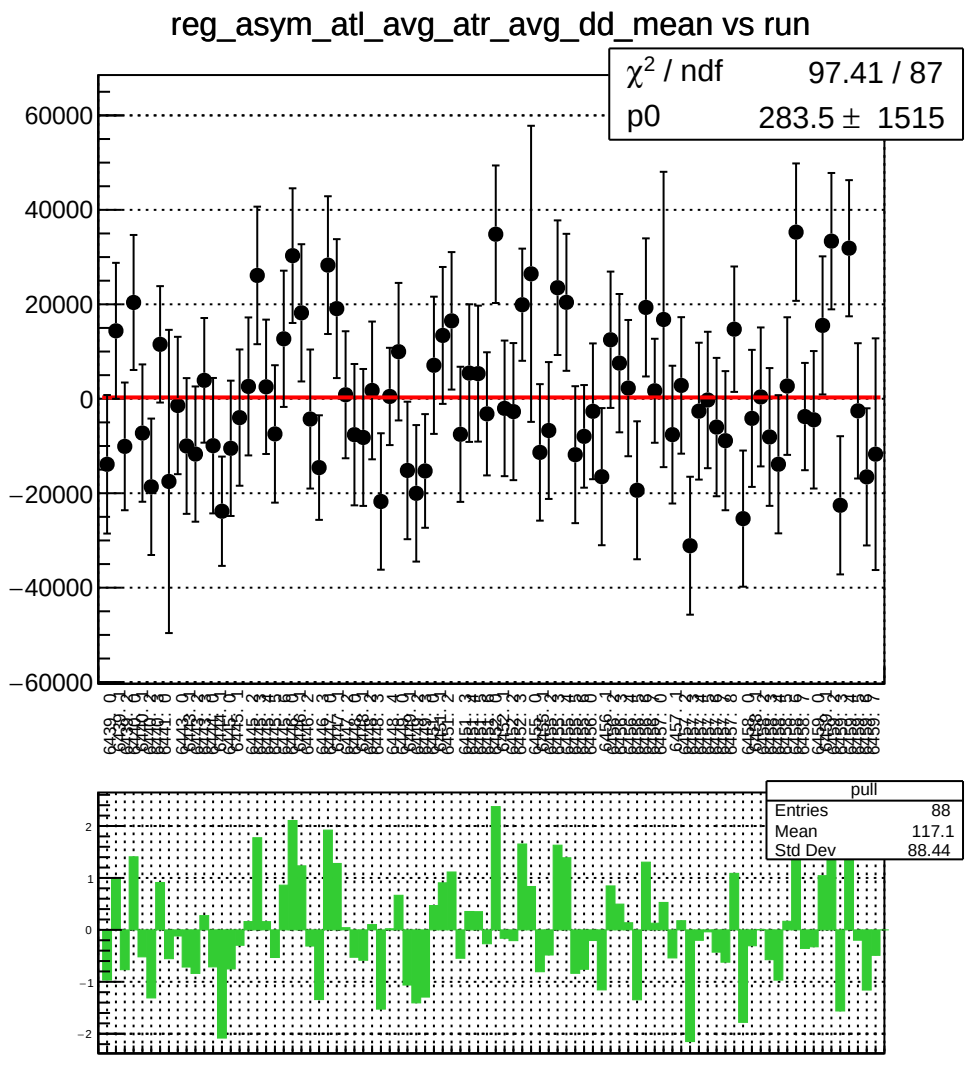

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

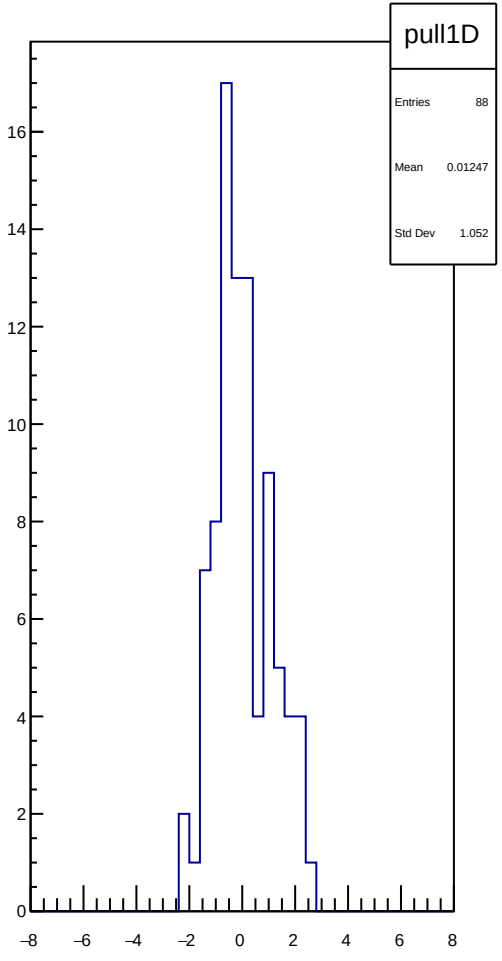

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 87
p0 0 ± 0.1066
1
0.8
0.6
0.4
0.2
0

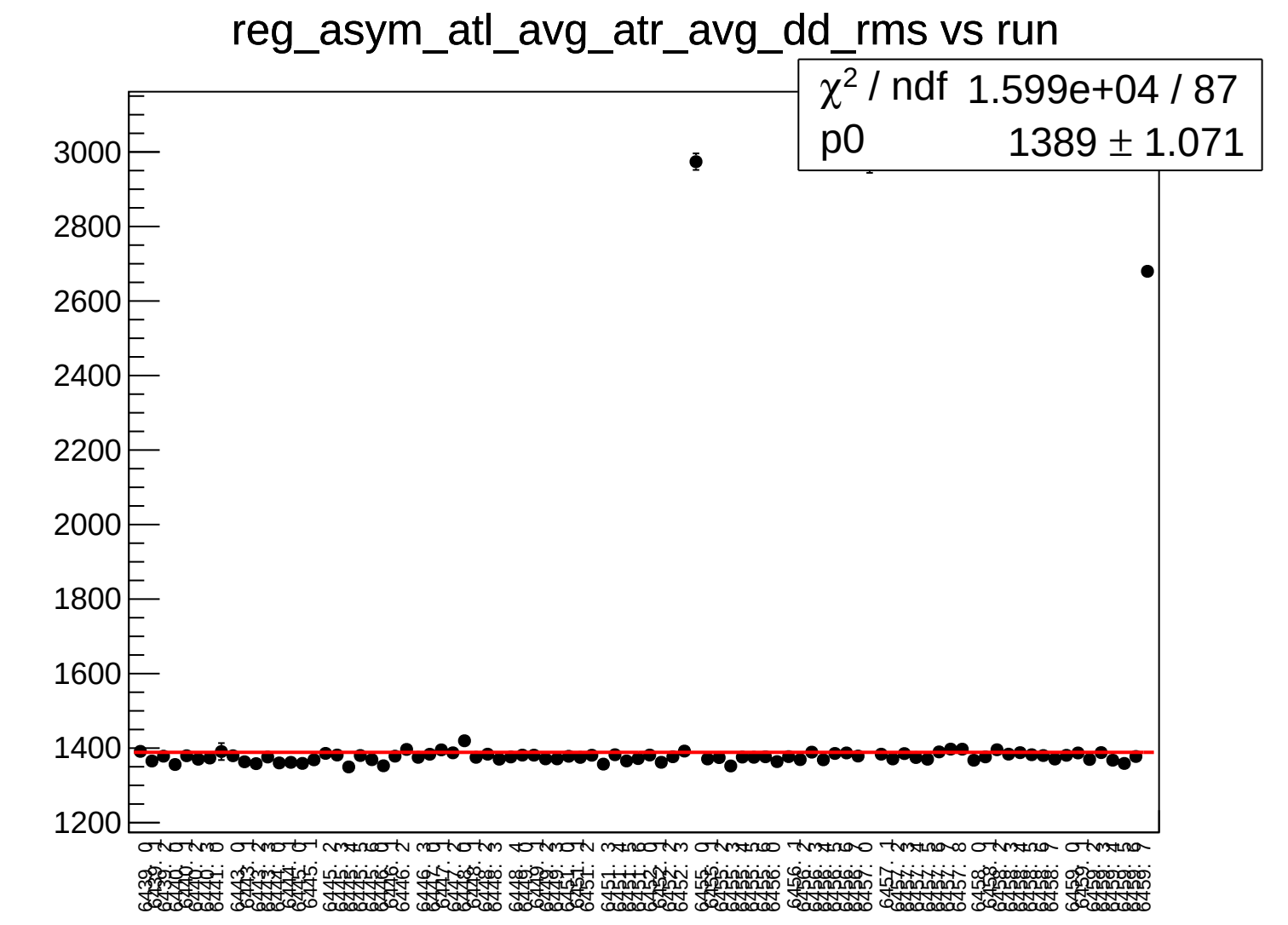

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 71.73 / 87
p0 8494 ± 5374
pull
Entries 88
Mean −43.81
Std Dev 150.5

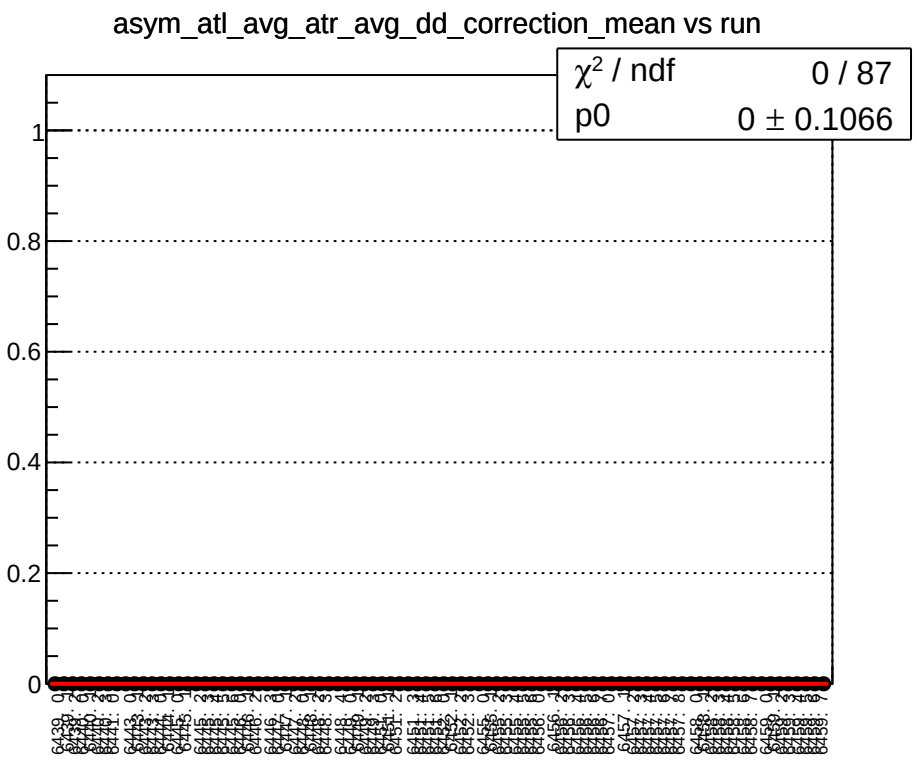

pull1D
Entries 88
Mean 0.002396
Std Dev 0.9028

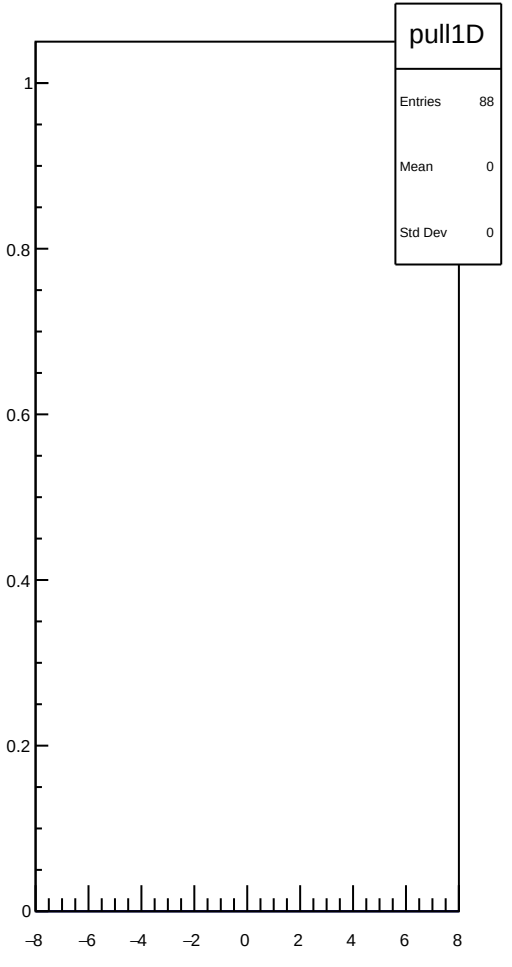

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3463 / 87
p0 4945 ± 3.8
5800
5600
5400
5200
5000
4800
4600
4400

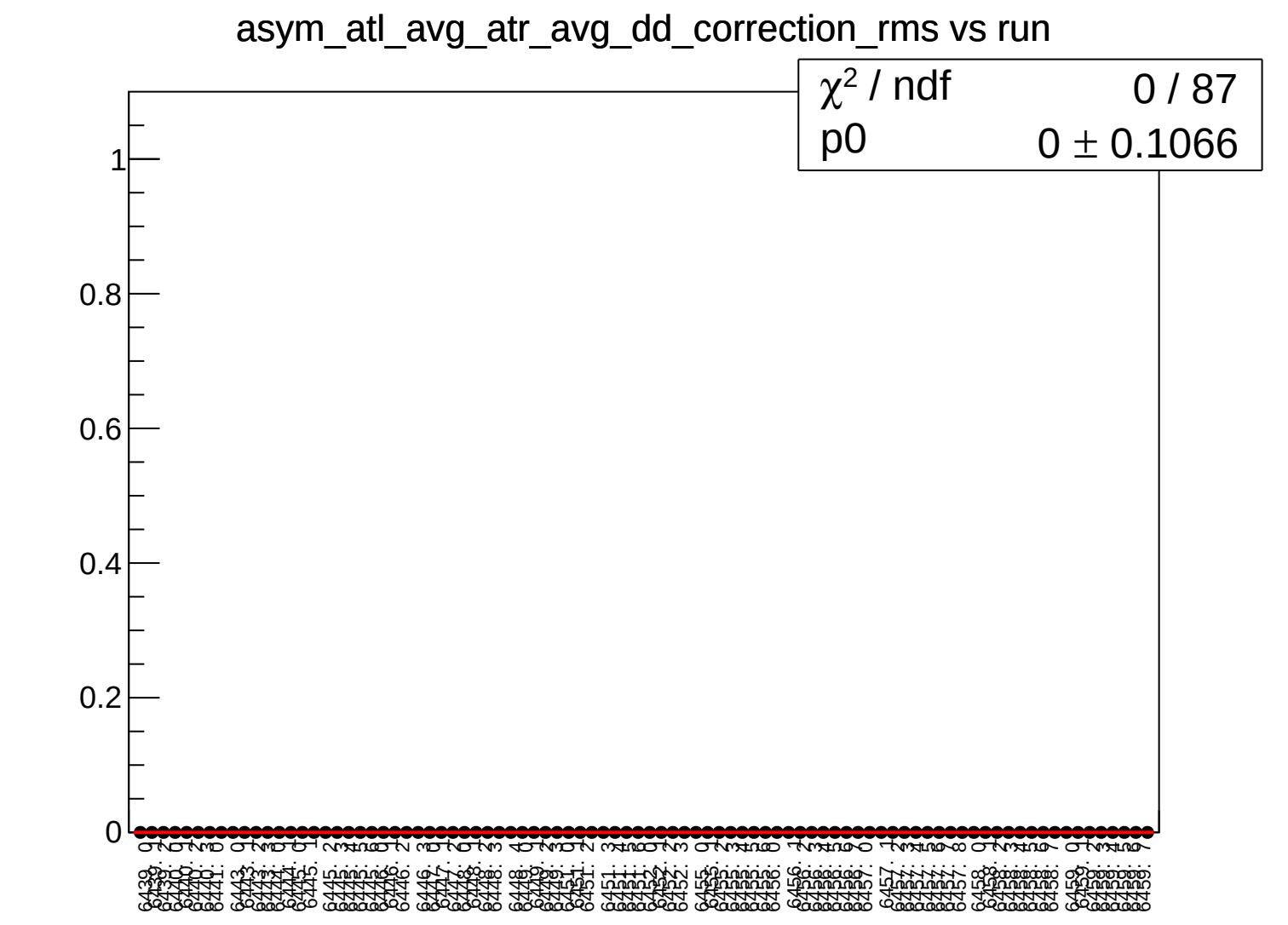

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 97.41 / 87
p0 283.5 ± 1515
pull
Entries 88
Mean 117.1
Std Dev 88.44

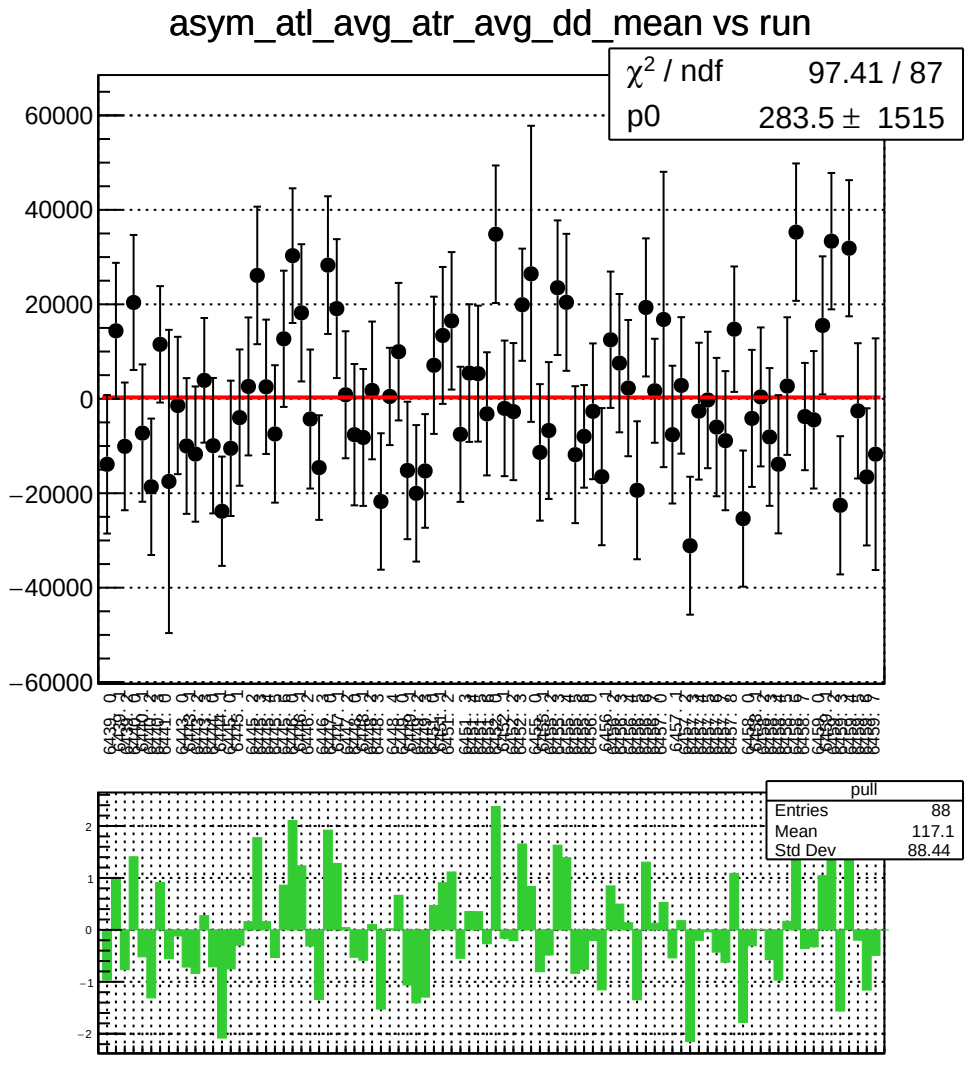

pull1D
Entries 88
Mean 0.01247
Std Dev 1.052

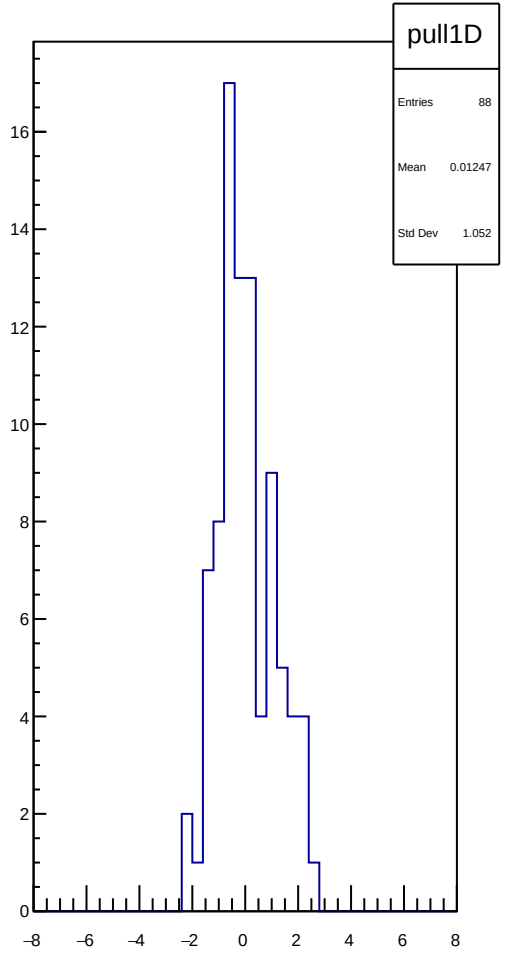

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.599e+04 / 87
p0 1389 ± 1.071
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

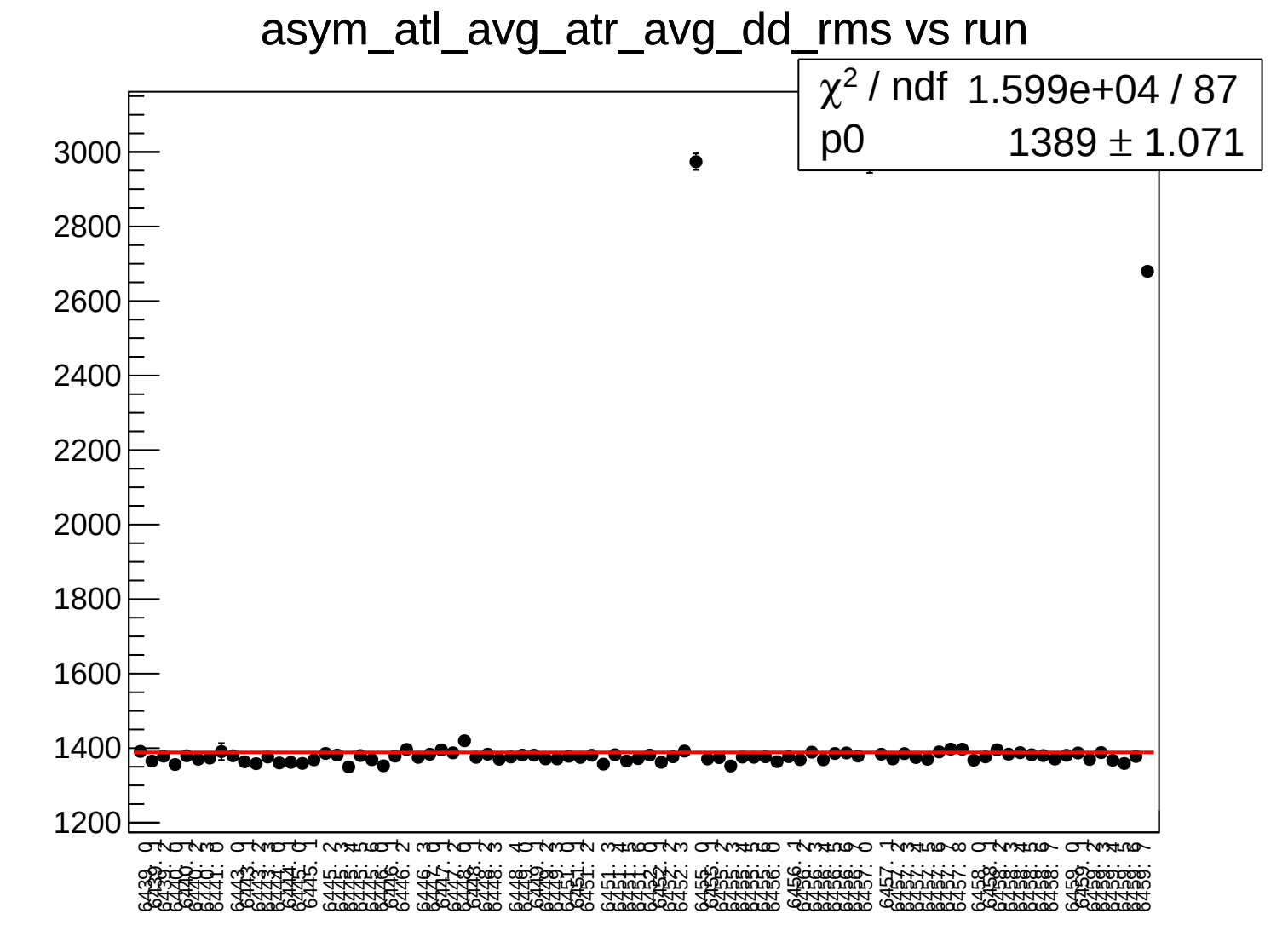

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 87
p0 0 ± 0.1066
1
0.8
0.6
0.4
0.2
0

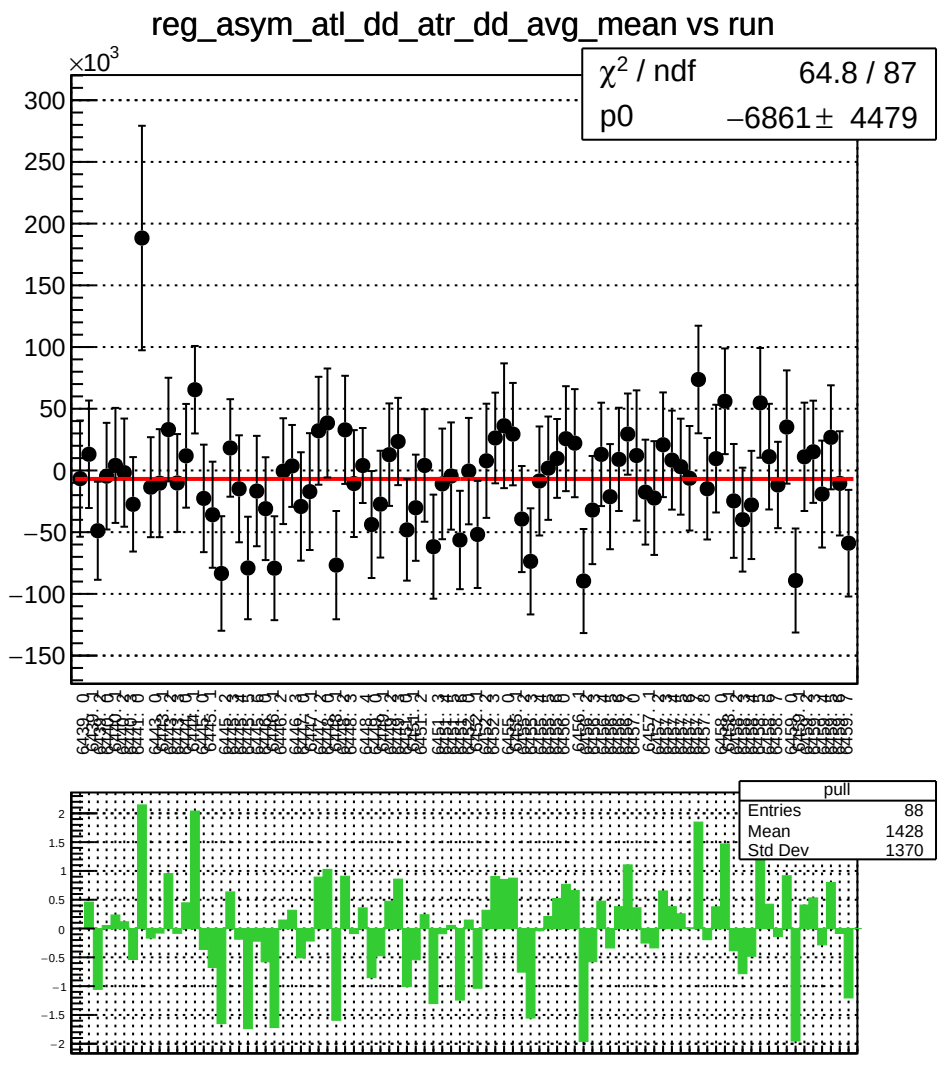

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

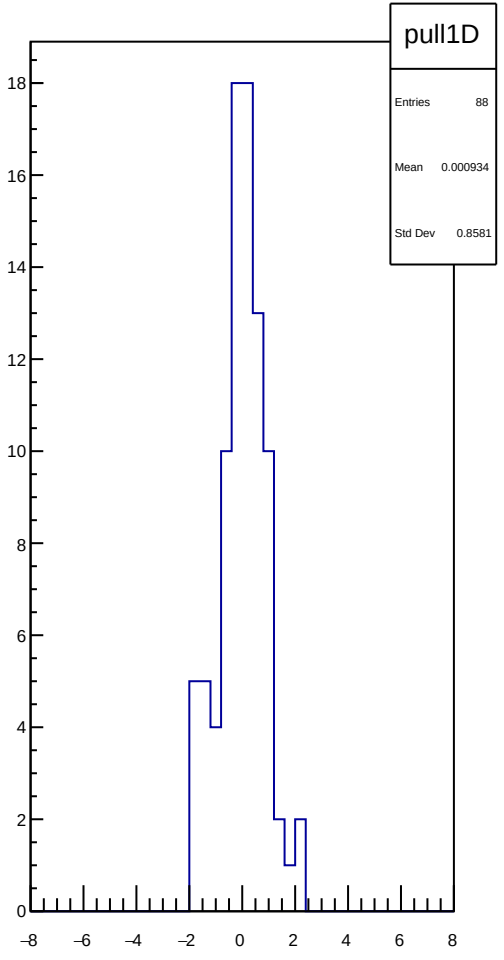

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 87
p0 0 ± 0.1066
1
0.8
0.6
0.4
0.2
0

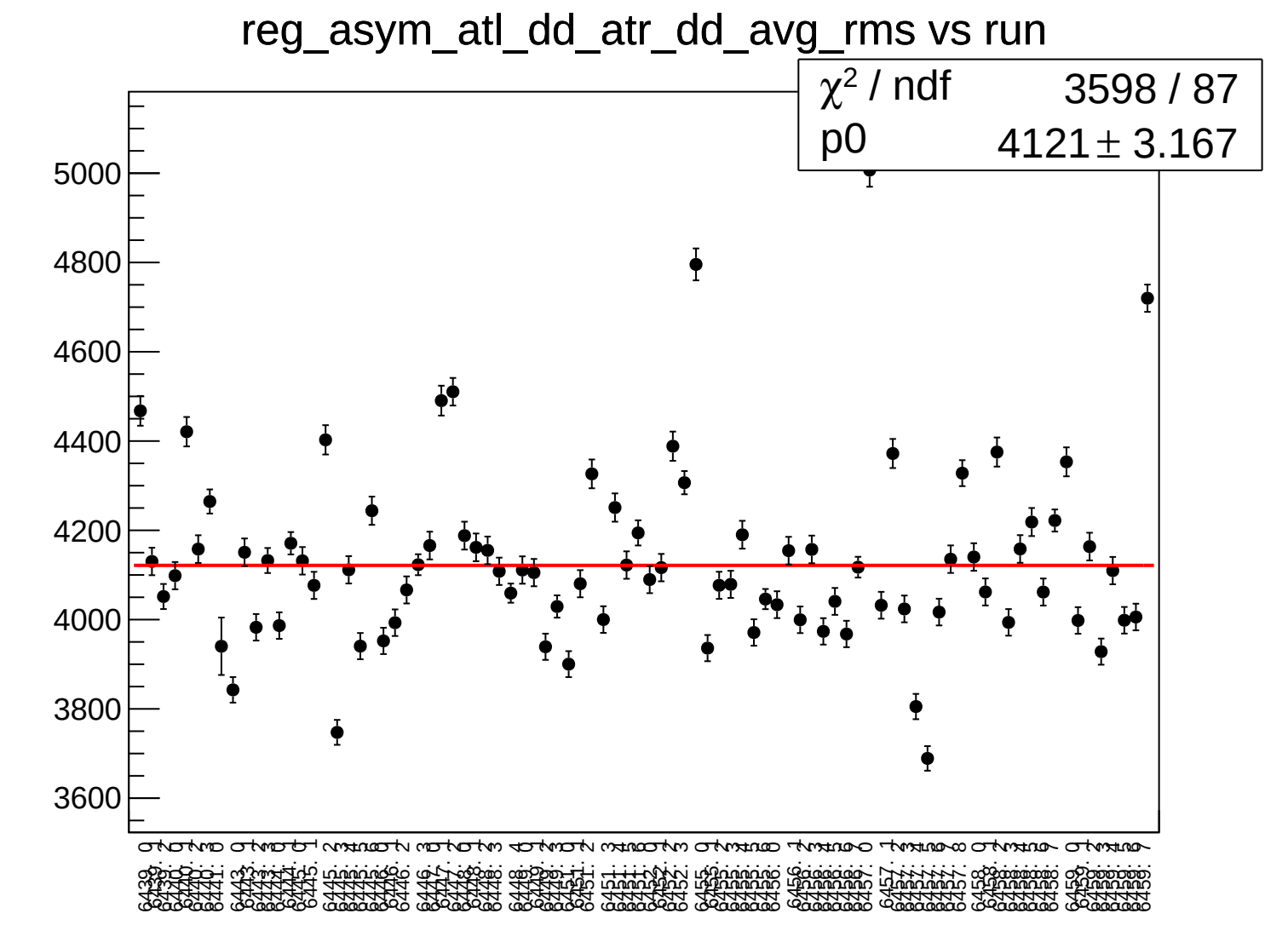

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 97.41 / 87
p0 283.5 ± 1515
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 117.1
Std Dev 88.44
2
1
0
−1
−2

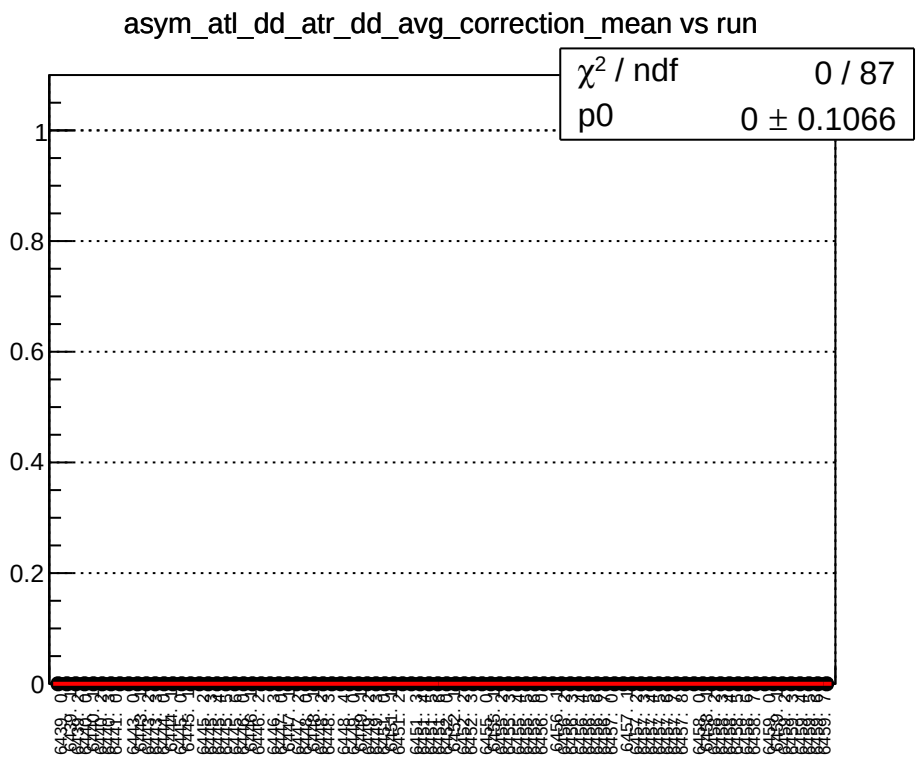

pull1D
Entries 88
Mean 0.01247
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

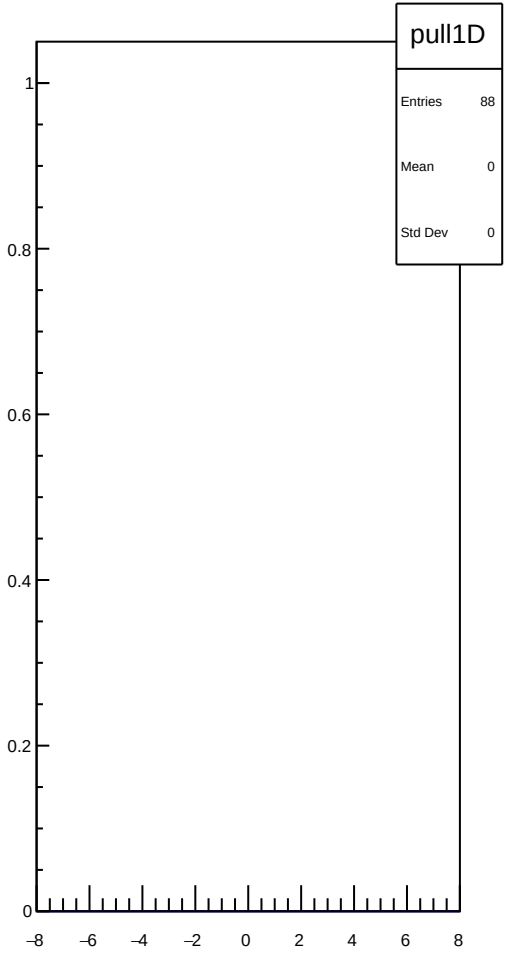

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.599e+04 / 87
p0 1389 ± 1.071
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

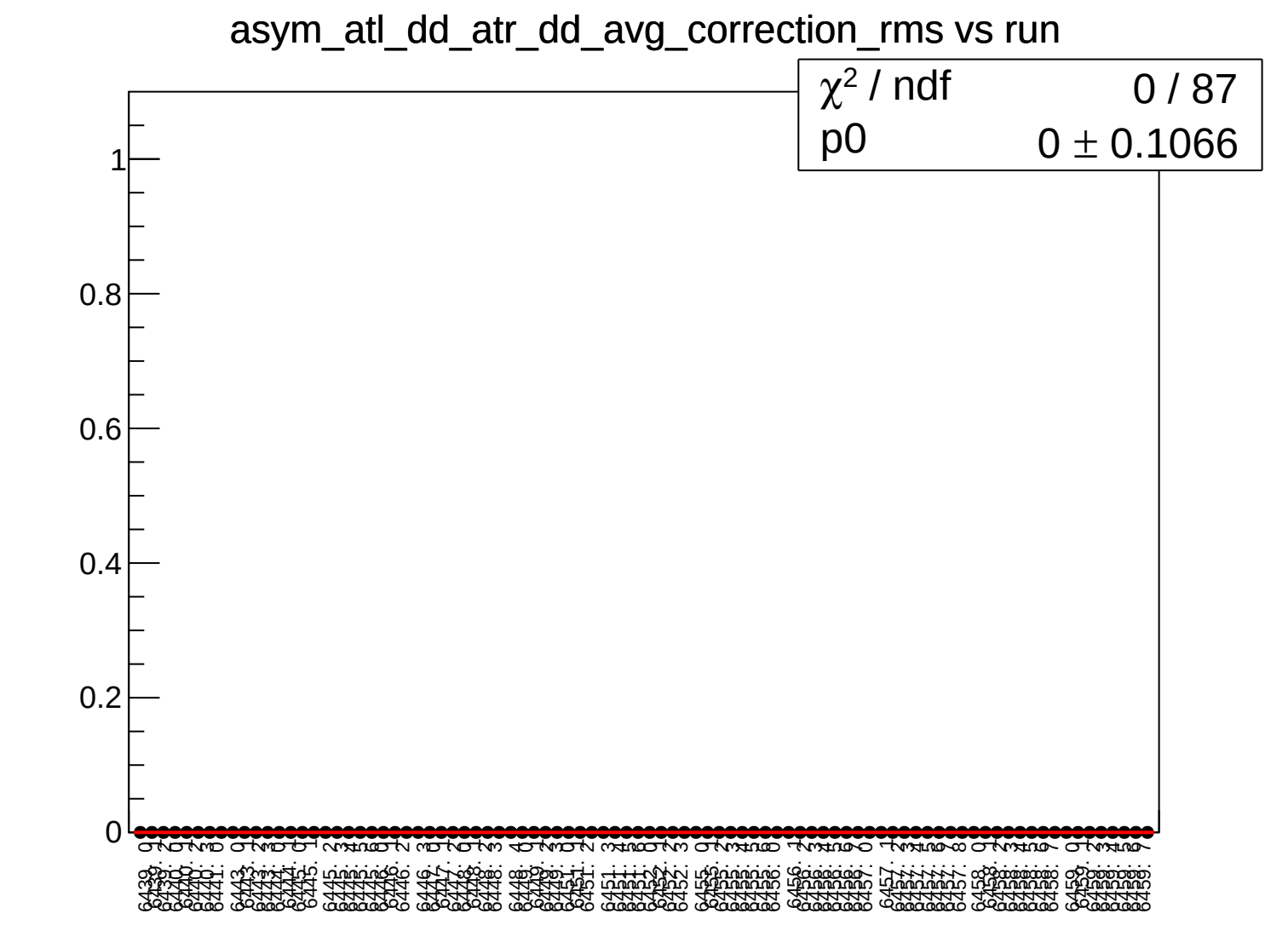

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 64.8 / 87
p0 −6861 ± 4479
×10³
pull
Entries 88
Mean 1428
Std Dev 1370

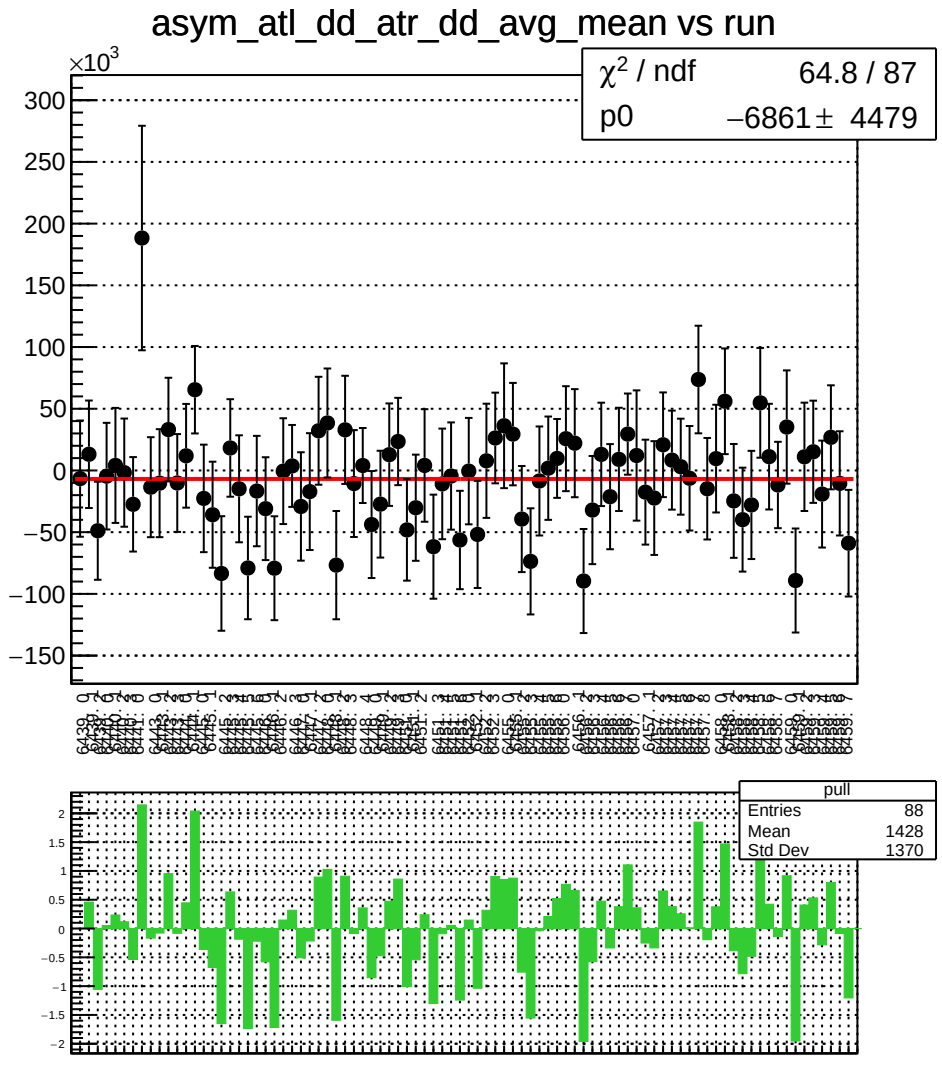

pull1D
Entries 88
Mean 0.000934
Std Dev 0.8581

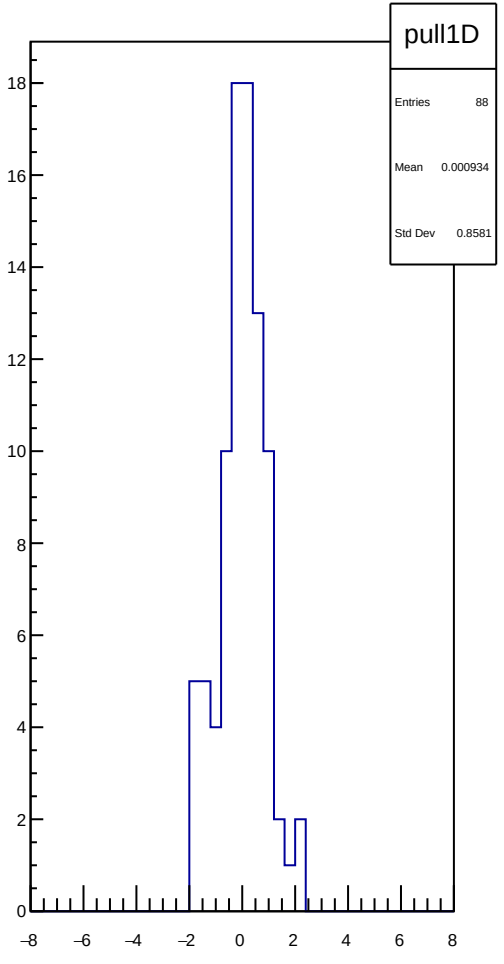

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3598 / 87
p0 4121 ± 3.167
5000
4800
4600
4400
4200
4000
3800
3600

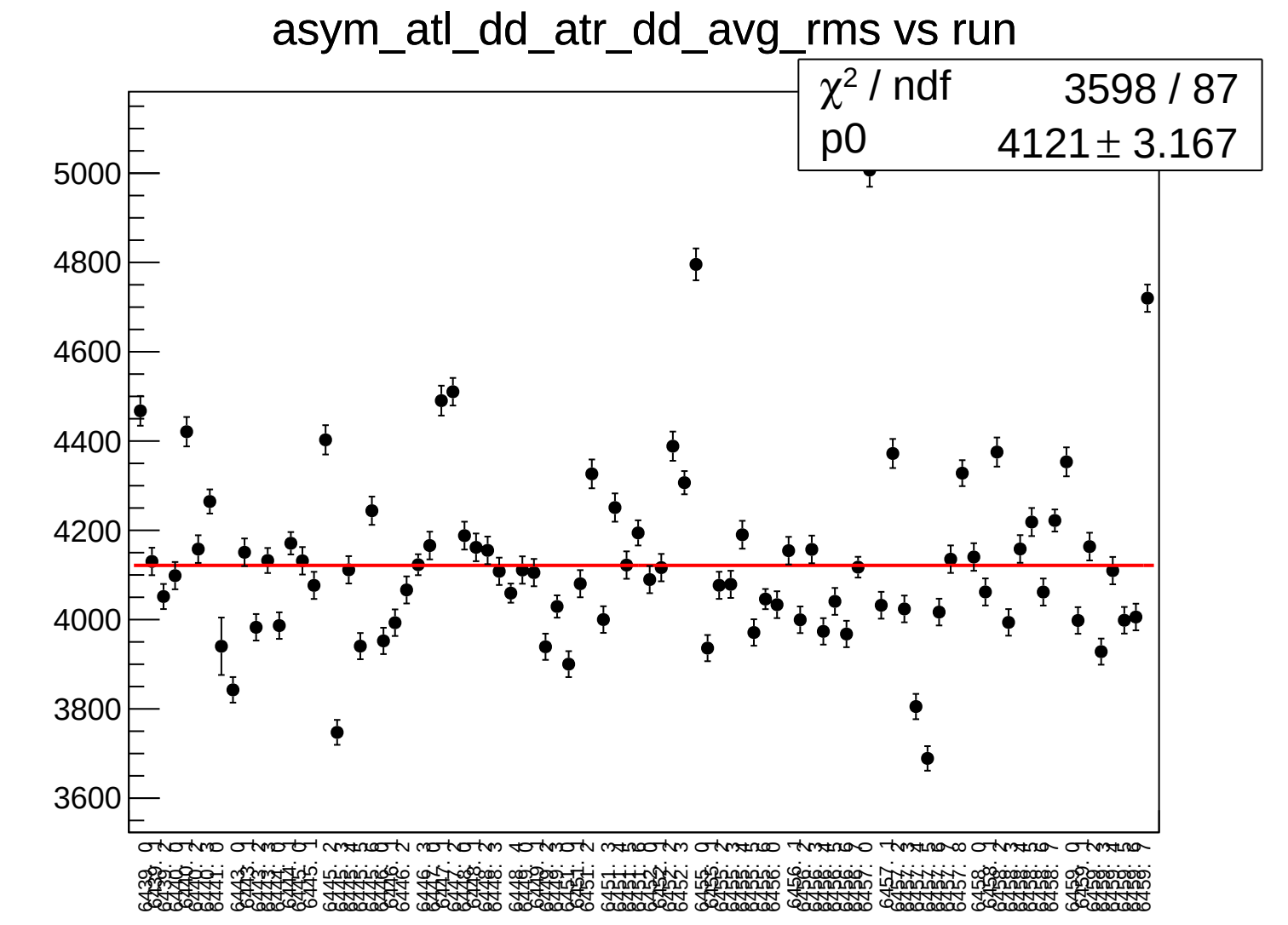

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 87
p0 0 ± 0.1066
1
0.8
0.6
0.4
0.2
0

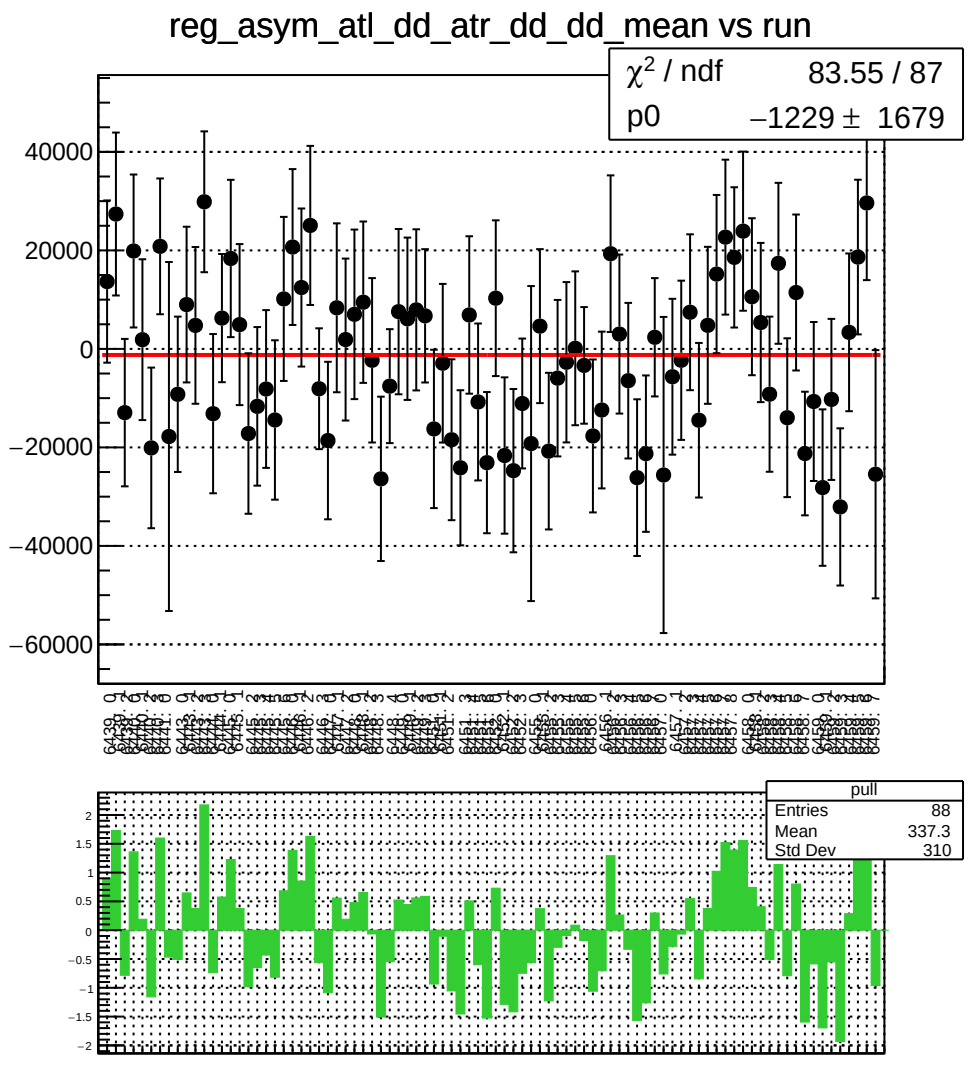

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

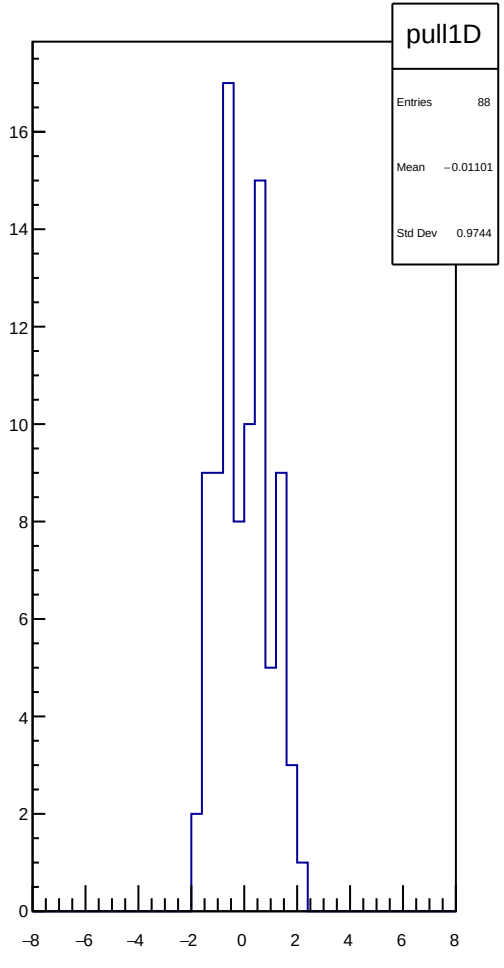

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 87
p0 0 ± 0.1066
1
0.8
0.6
0.4
0.2
0

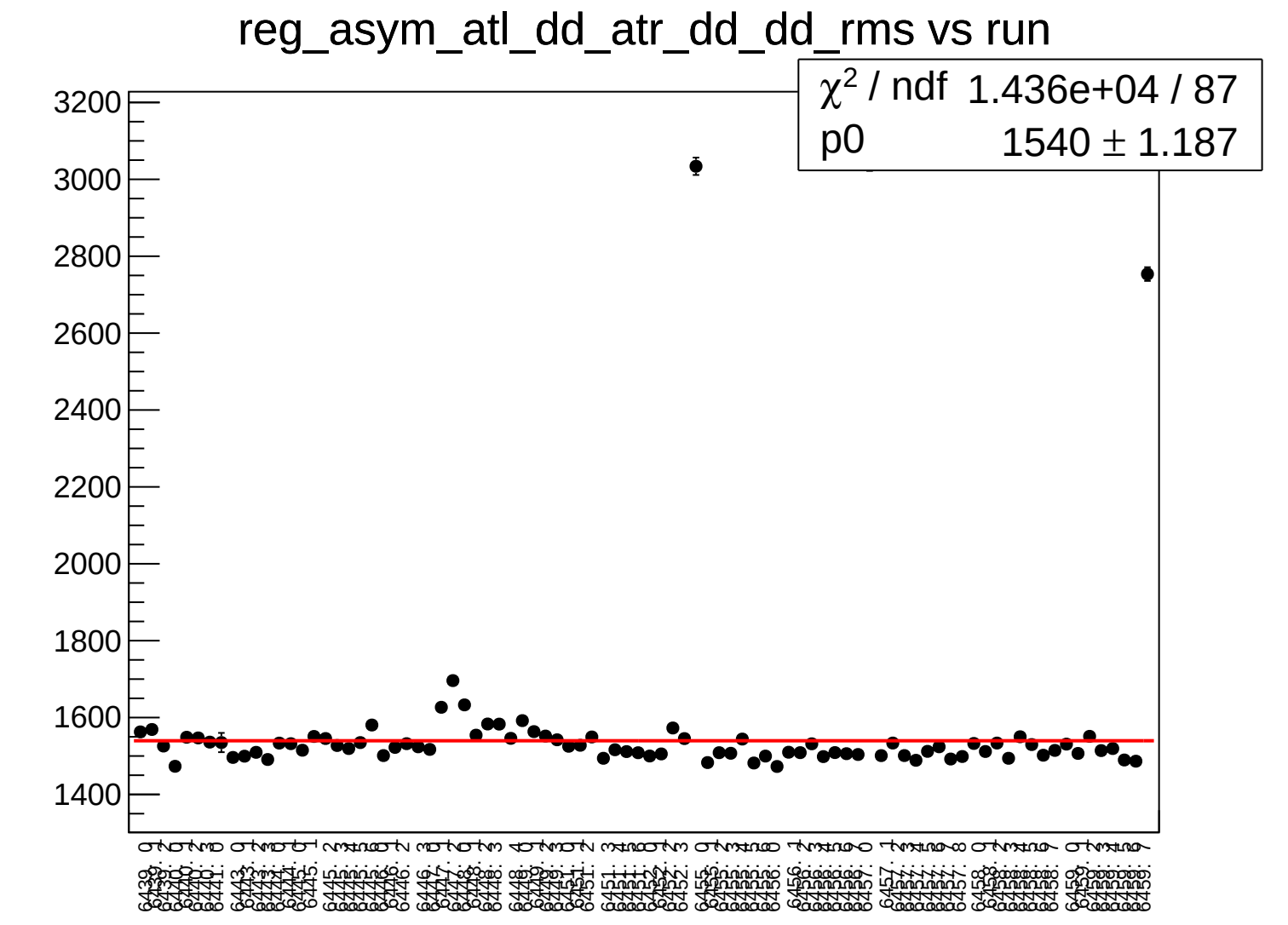

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 64.8 / 87
p0 −6861 ± 4479
pull
Entries 88
Mean 1428
Std Dev 1370

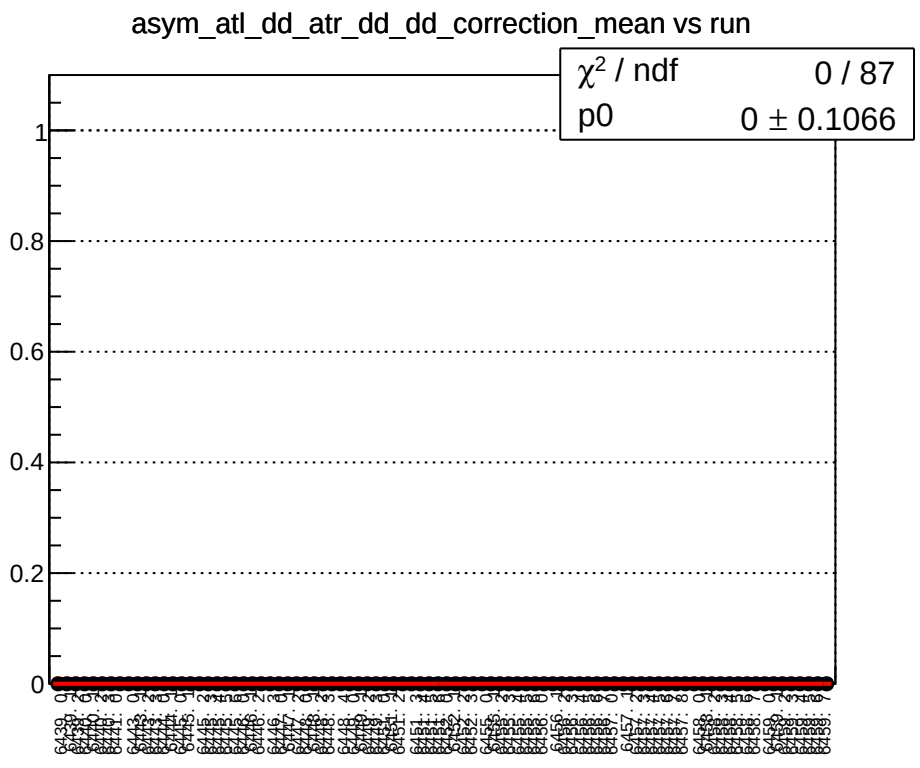

pull1D
Entries 88
Mean 0.000934
Std Dev 0.8581

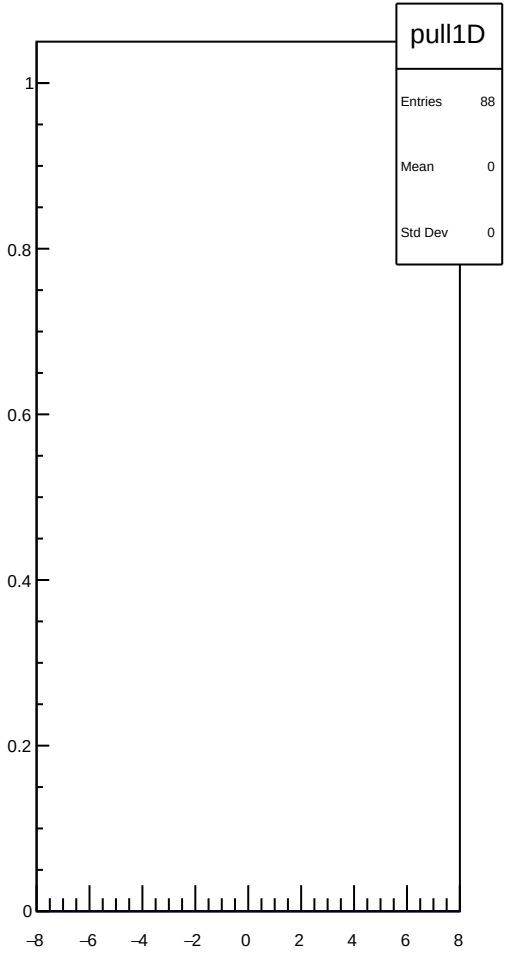

asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 3598 / 87
p0 4121 ± 3.167
5000
4800
4600
4400
4200
4000
3800
3600

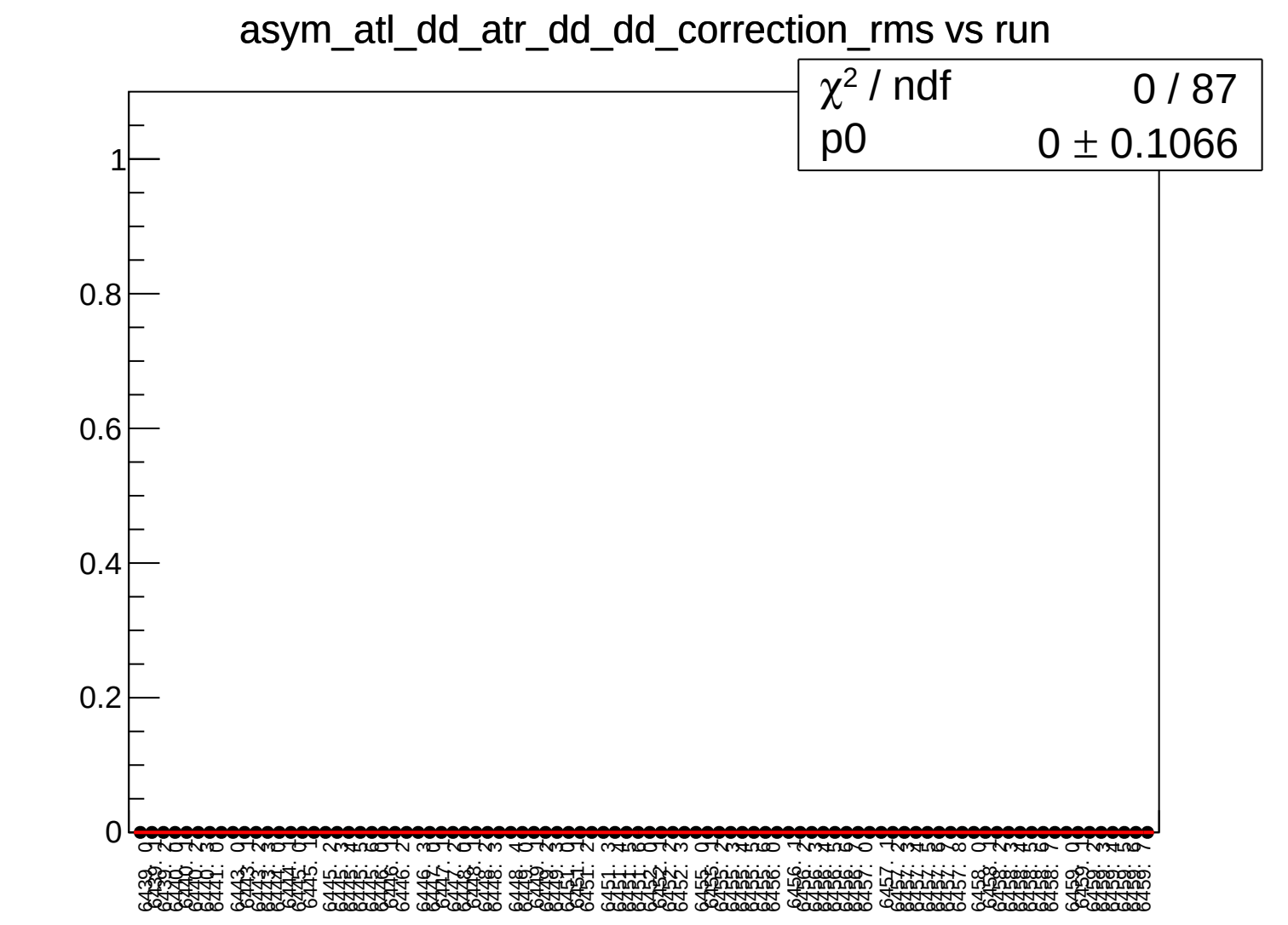

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 83.55 / 87
p0 −1229 ± 1679
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 337.3
Std Dev 310
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

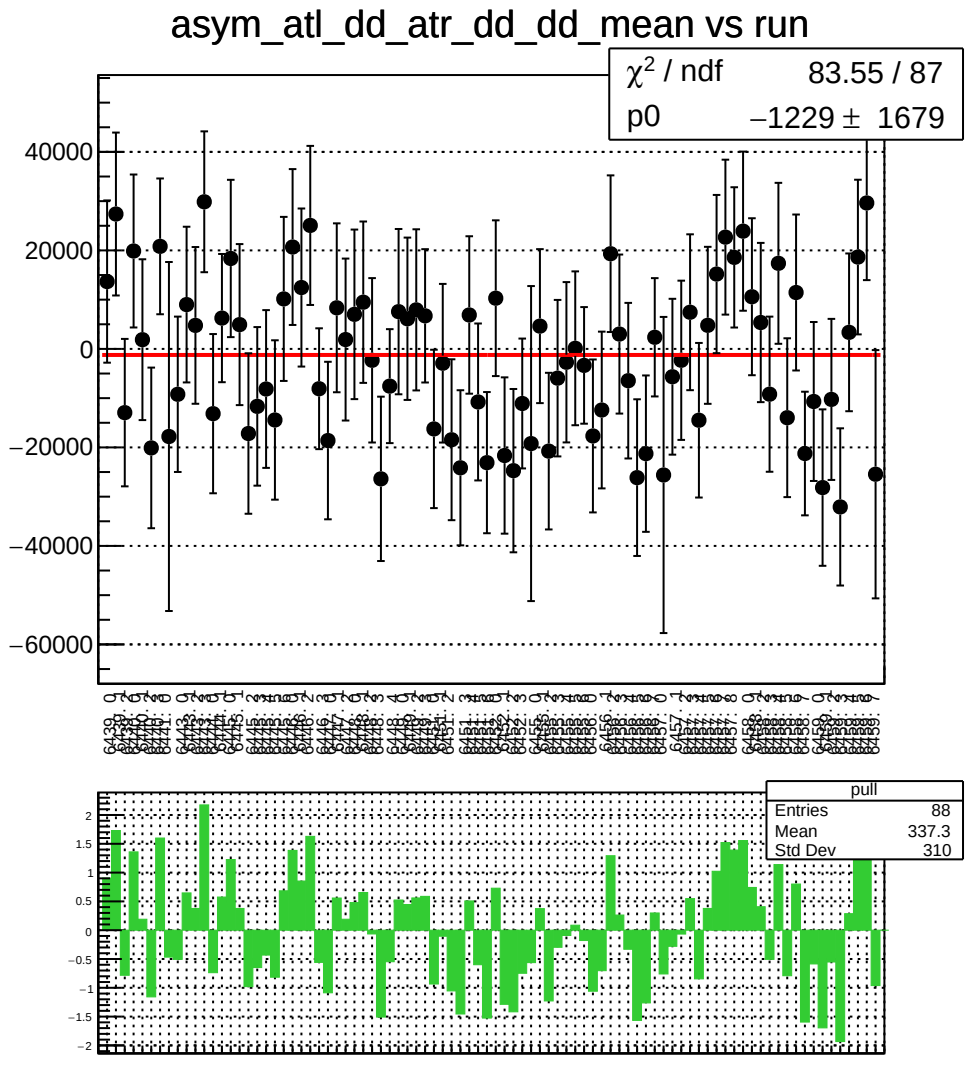

pull1D
Entries 88
Mean −0.01101
Std Dev 0.9744
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

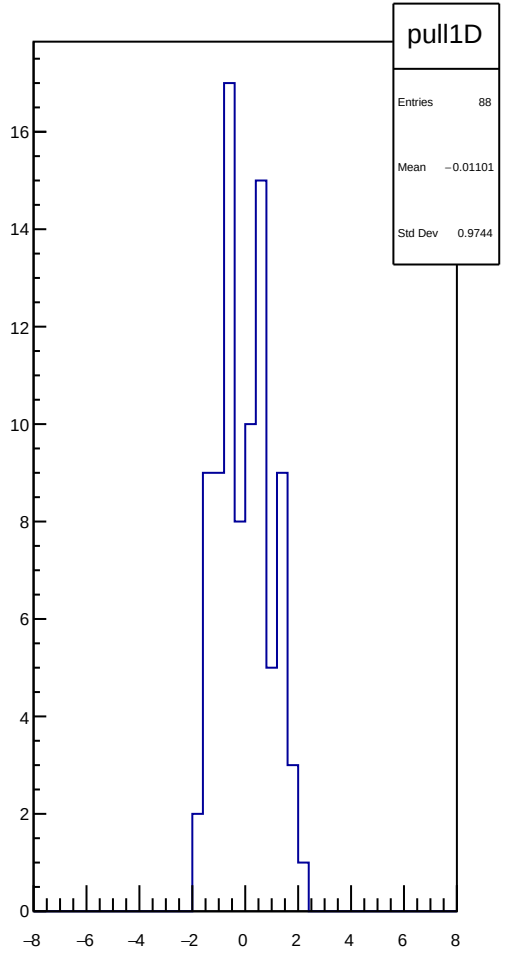

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.436e+04 / 87
p0 1540 ± 1.187
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

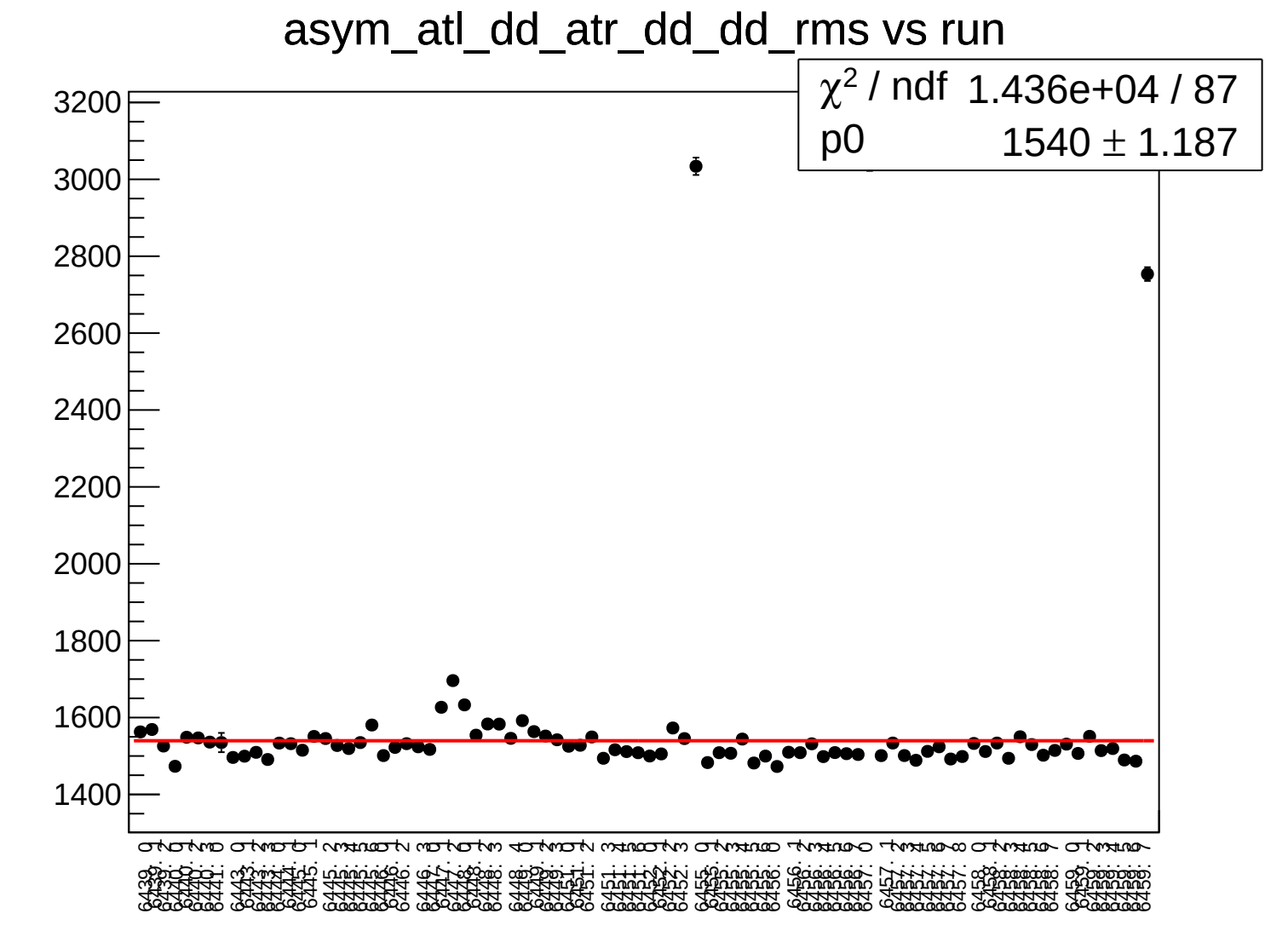

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 87
p0 0 ± 0.1066
1
0.8
0.6
0.4
0.2
0

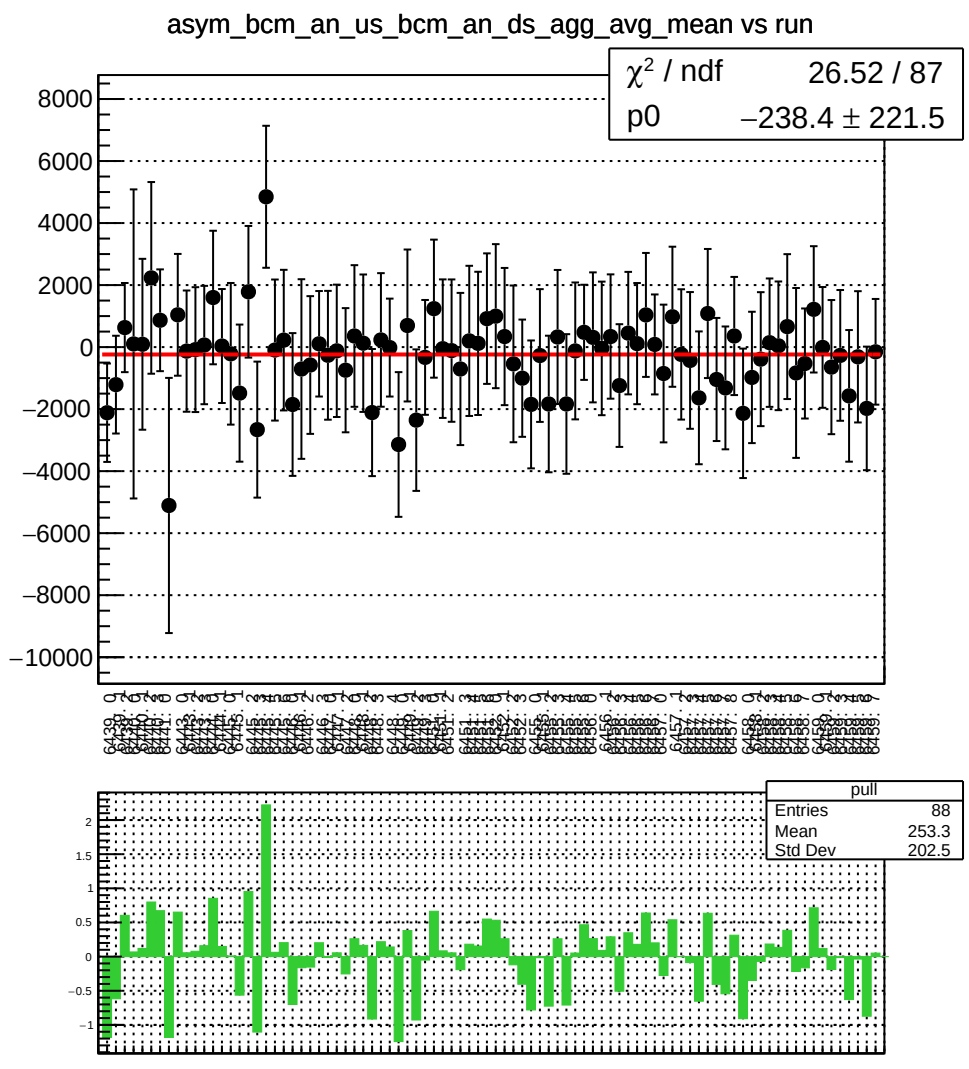

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

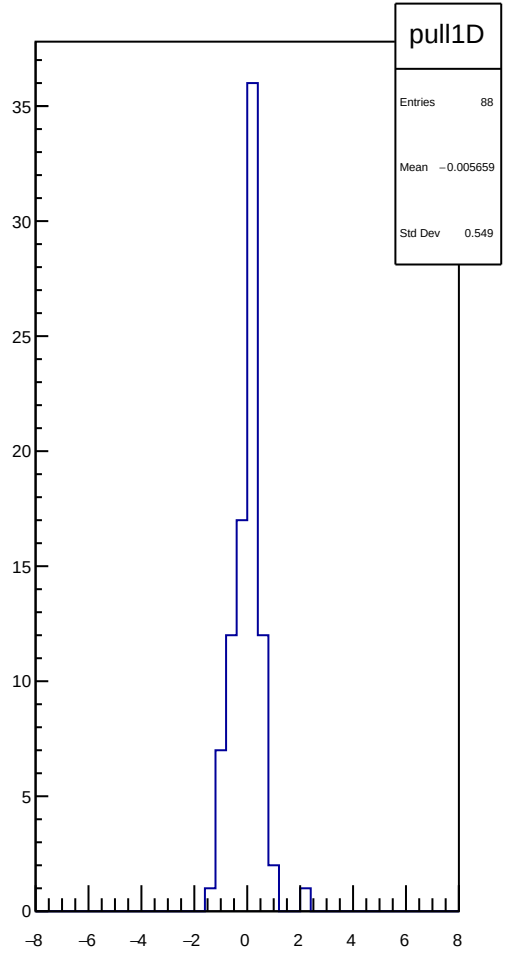

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 87
p0 0 ± 0.1066
1
0.8
0.6
0.4
0.2
0

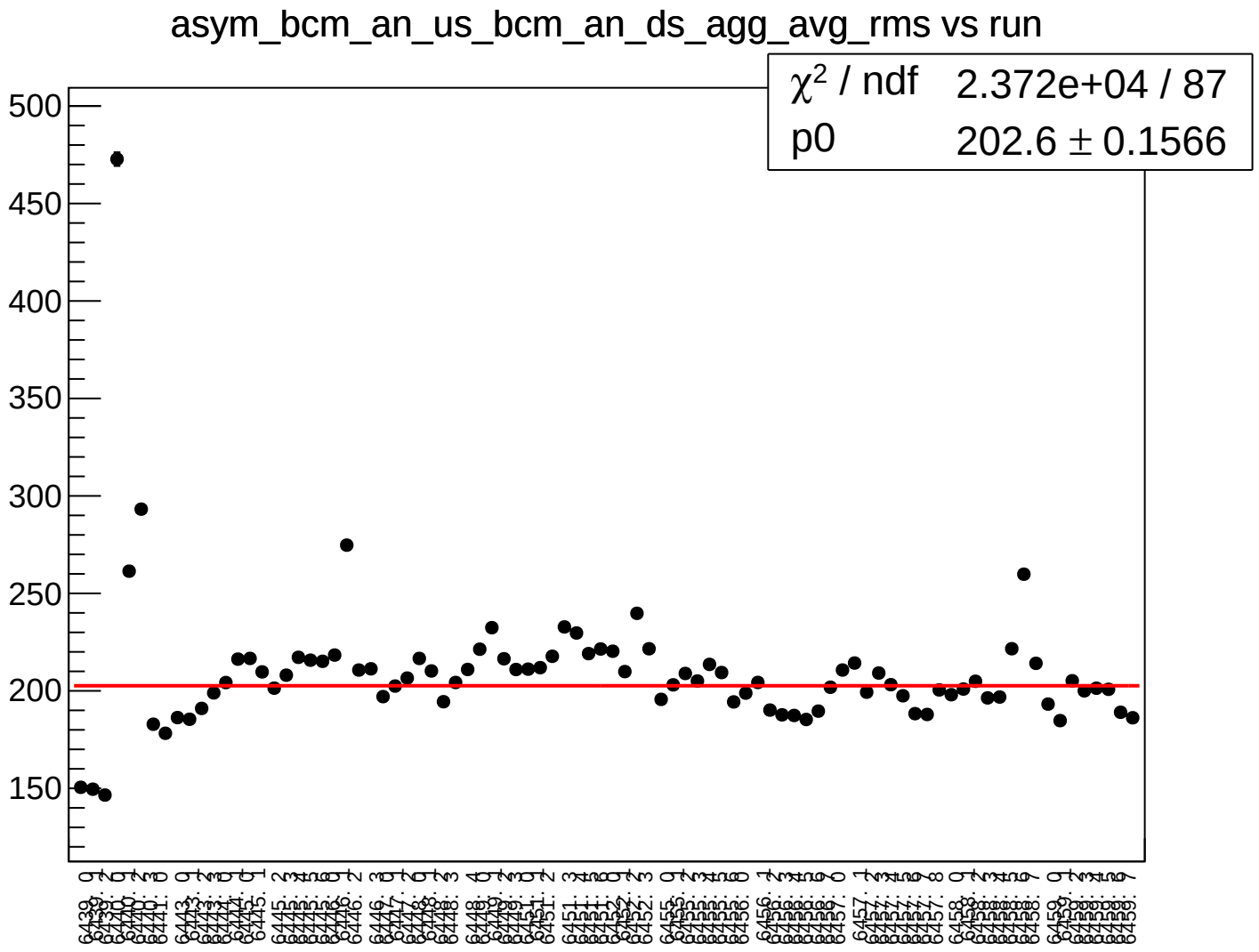

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 83.55 / 87
p0 −1229 ± 1679
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 337.3
Std Dev 310
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

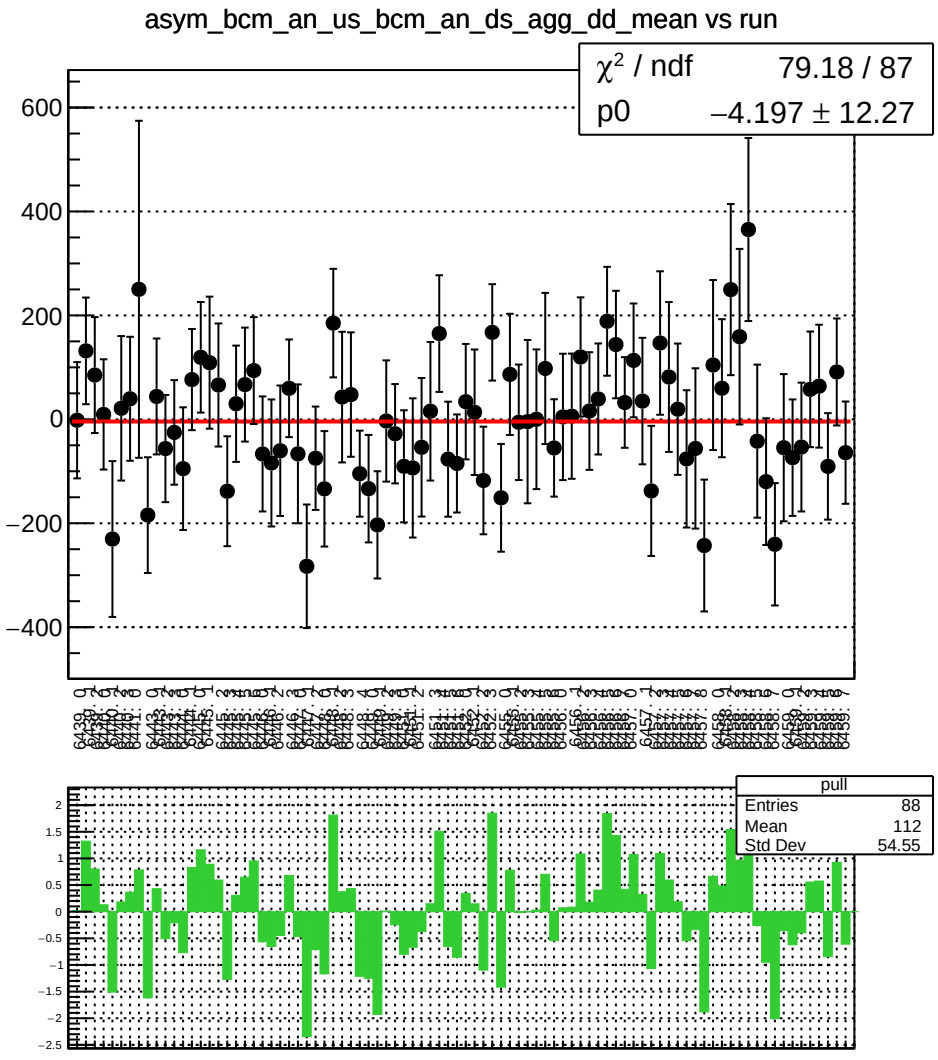

pull1D
Entries 88
Mean −0.01101
Std Dev 0.9744
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

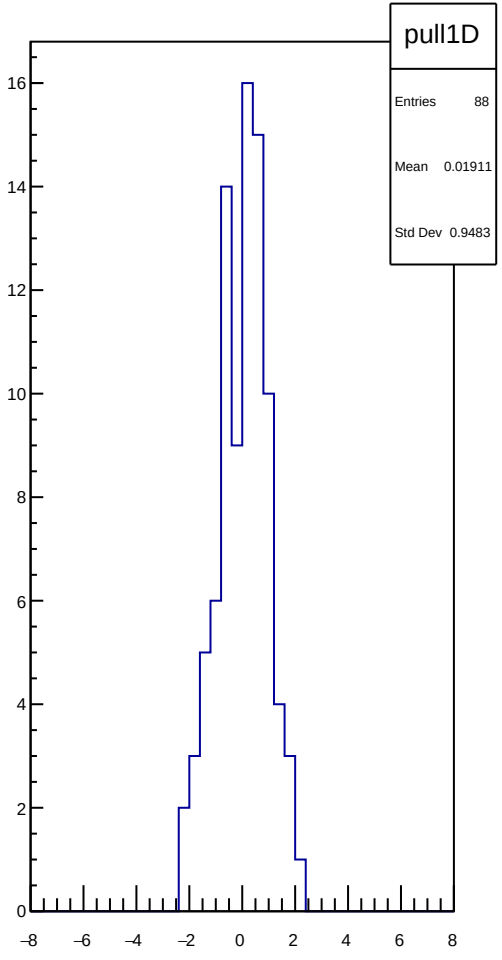

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.436e+04 / 87
p0 1540 ± 1.187
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

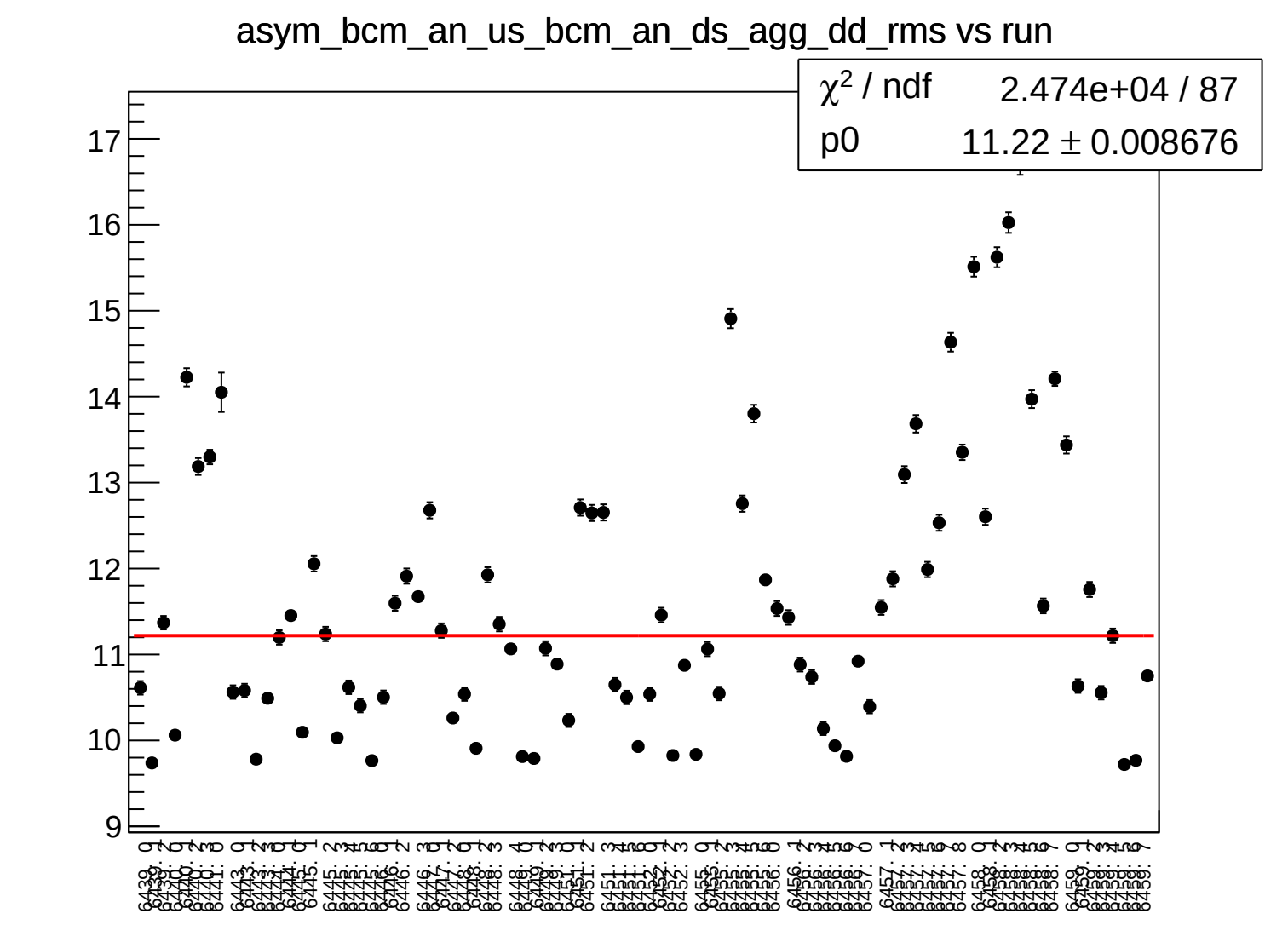

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 26.52 / 87
p0 −238.4 ± 221.5
pull
Entries 88
Mean 253.3
Std Dev 202.5

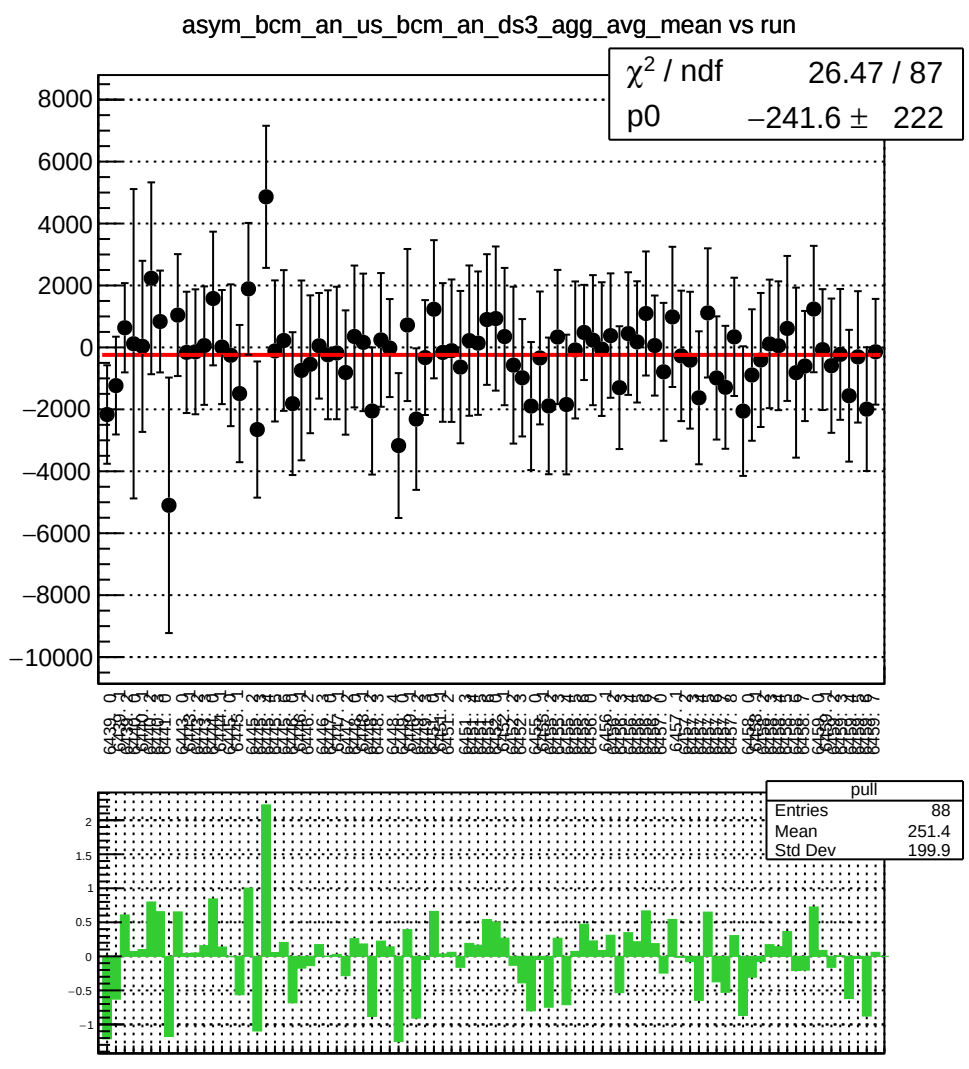

pull1D
Entries 88
Mean −0.005659
Std Dev 0.549

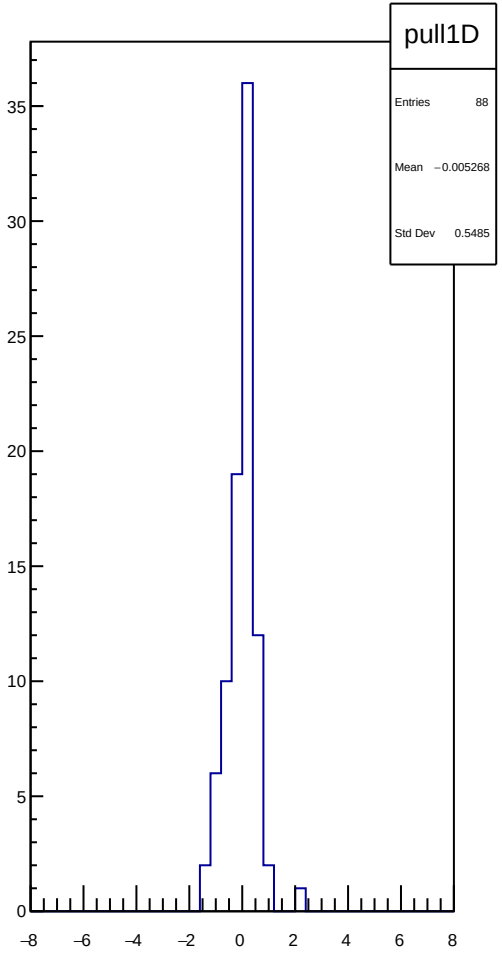

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.372e+04 / 87
p0 202.6 ± 0.1566
500
450
400
350
300
250
200
150

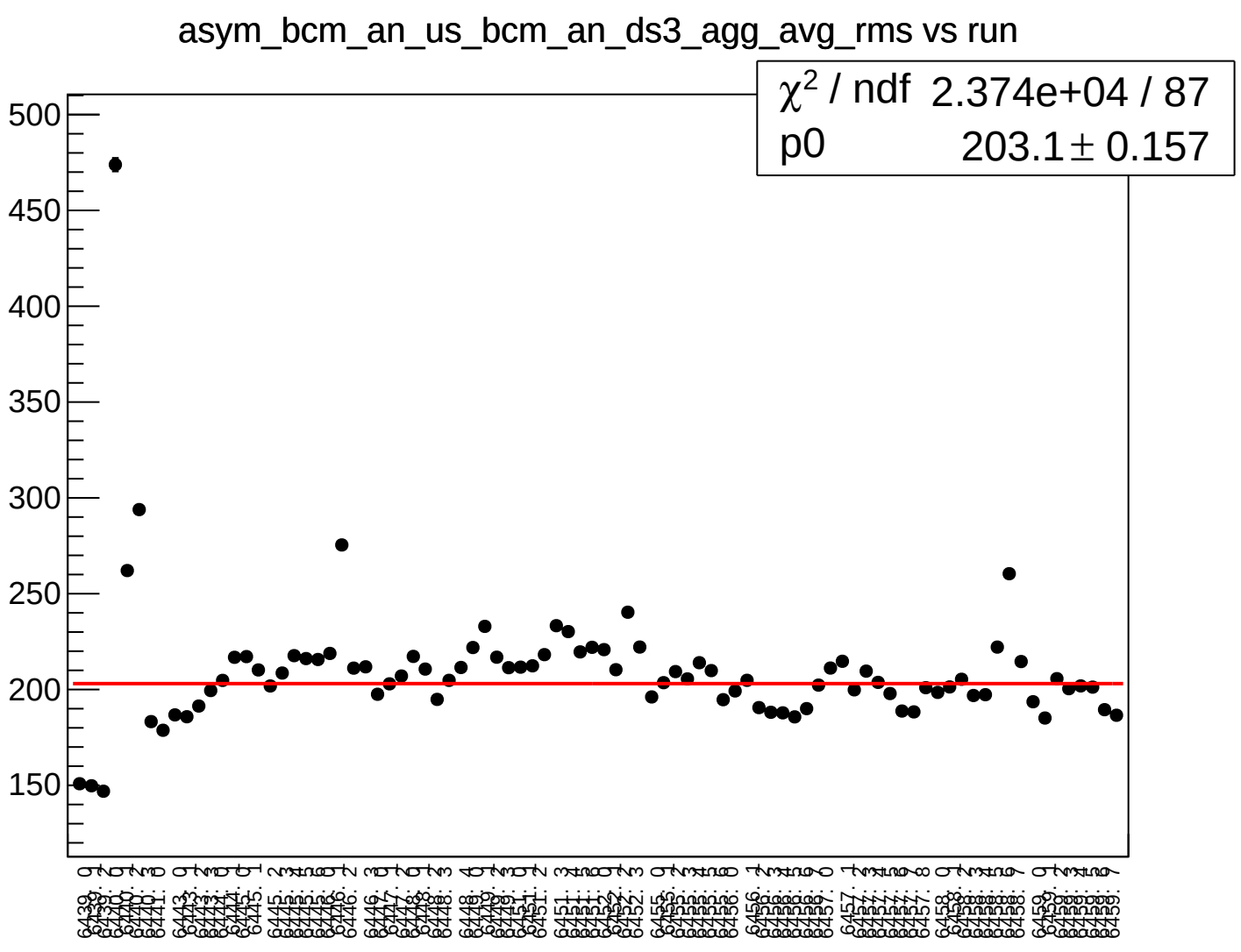

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 79.18 / 87
p0 −4.197 ± 12.27
pull
Entries 88
Mean 112
Std Dev 54.55

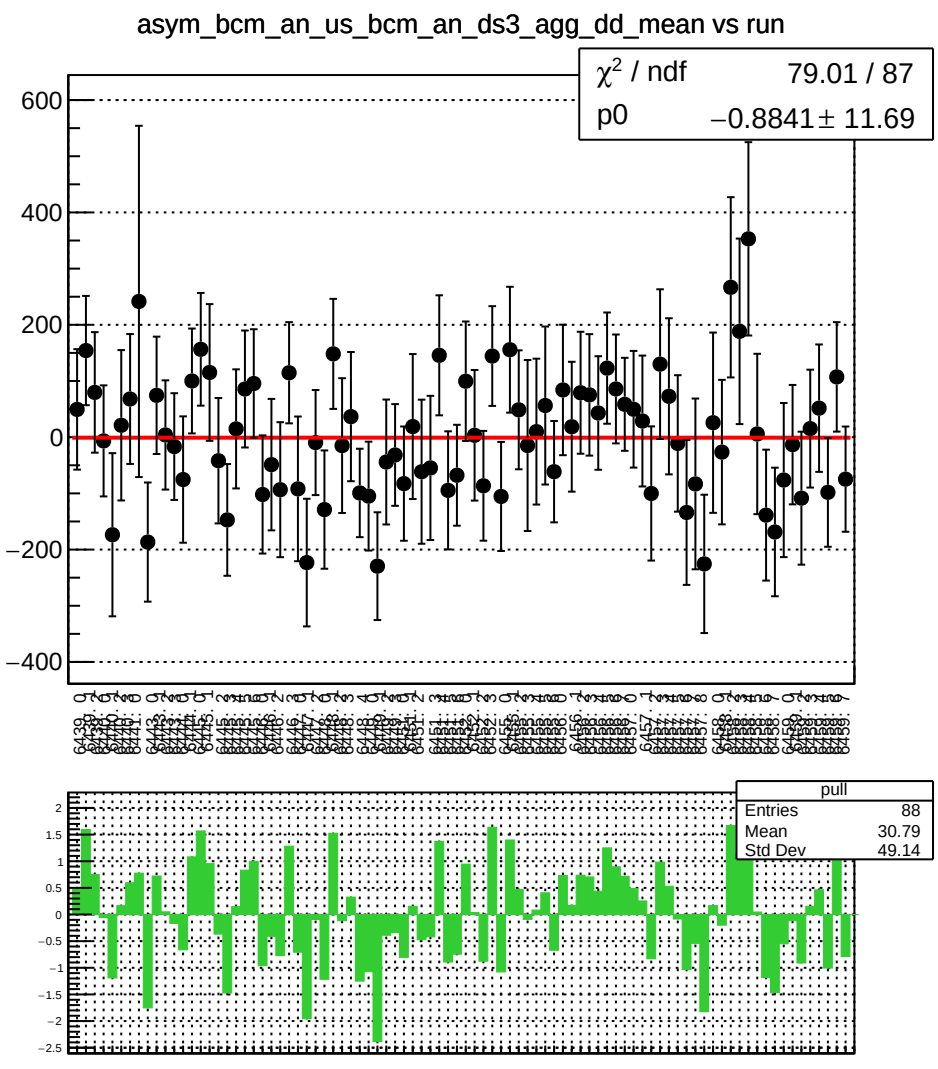

pull1D
Entries 88
Mean 0.01911
Std Dev 0.9483

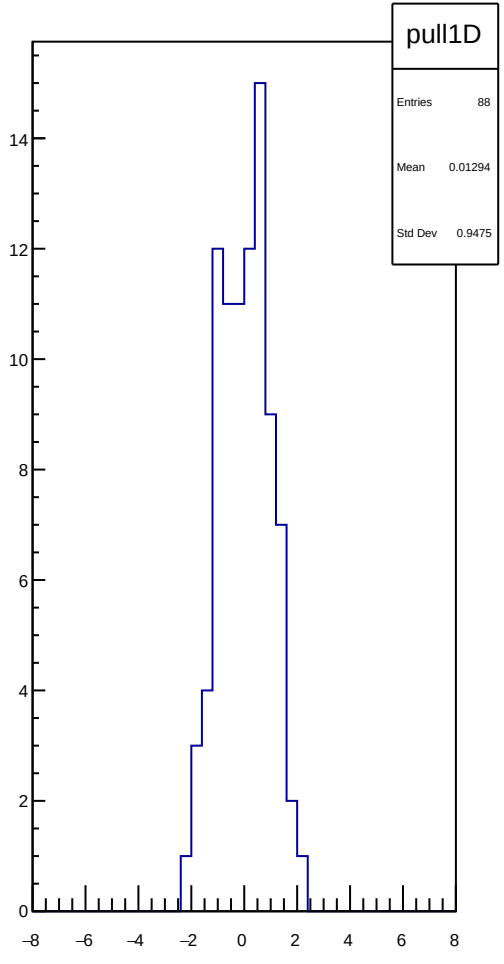

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.474e+04 / 87
p0 11.22 ± 0.008676
17
16
15
14
13
12
11
10
9

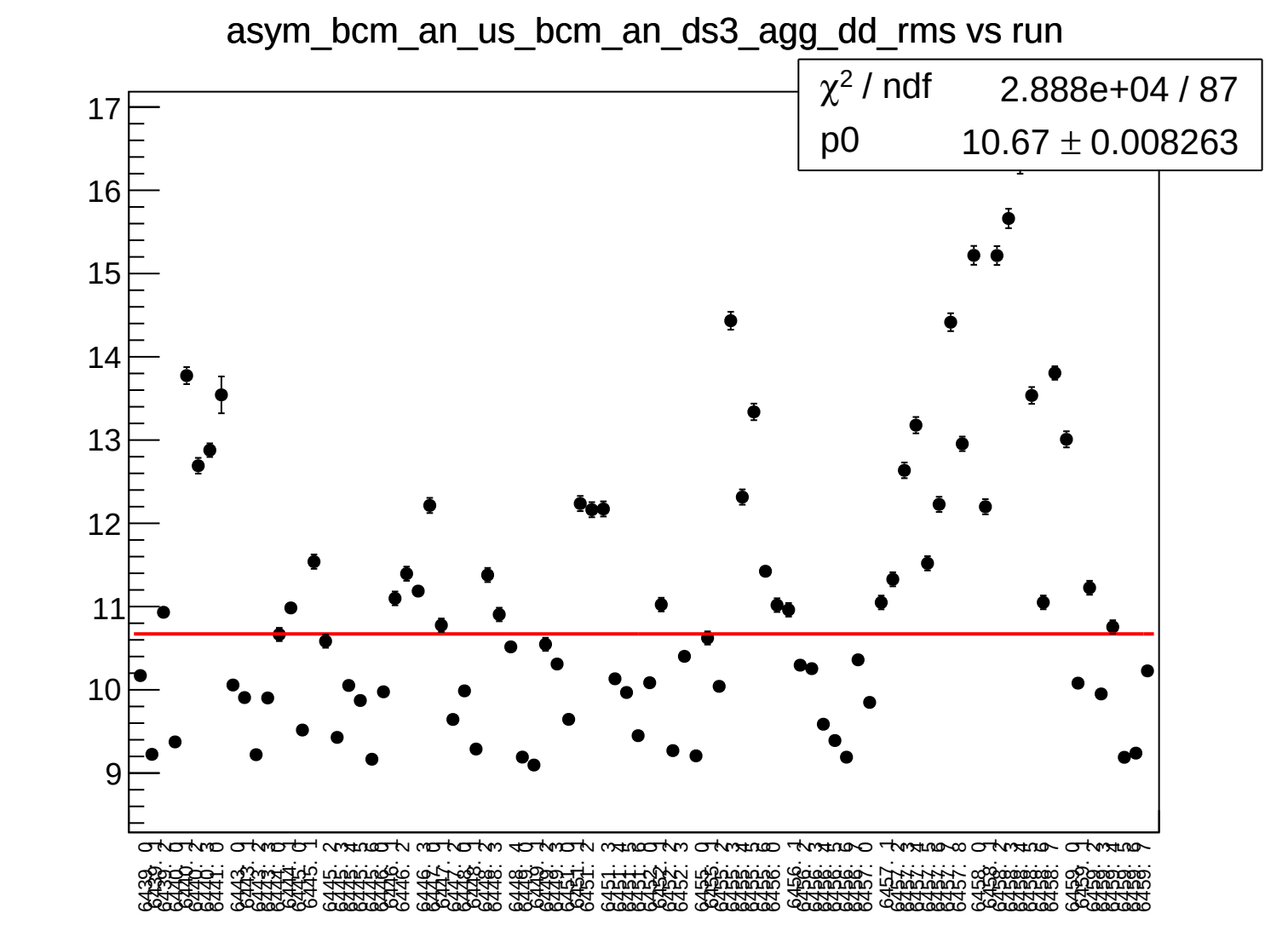

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 26.47 / 87
p0 −241.6 ± 222
pull
Entries 88
Mean 251.4
Std Dev 199.9

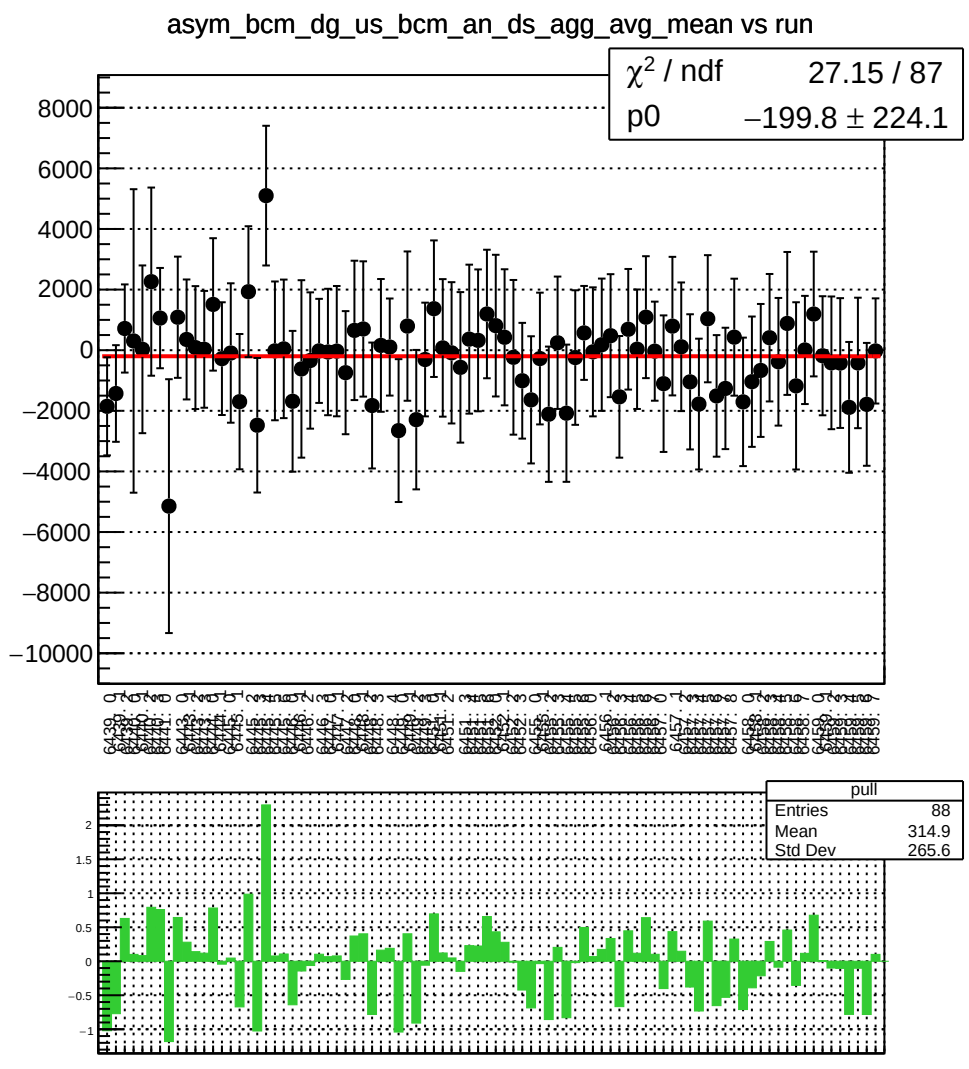

pull1D
Entries 88
Mean −0.005268
Std Dev 0.5485

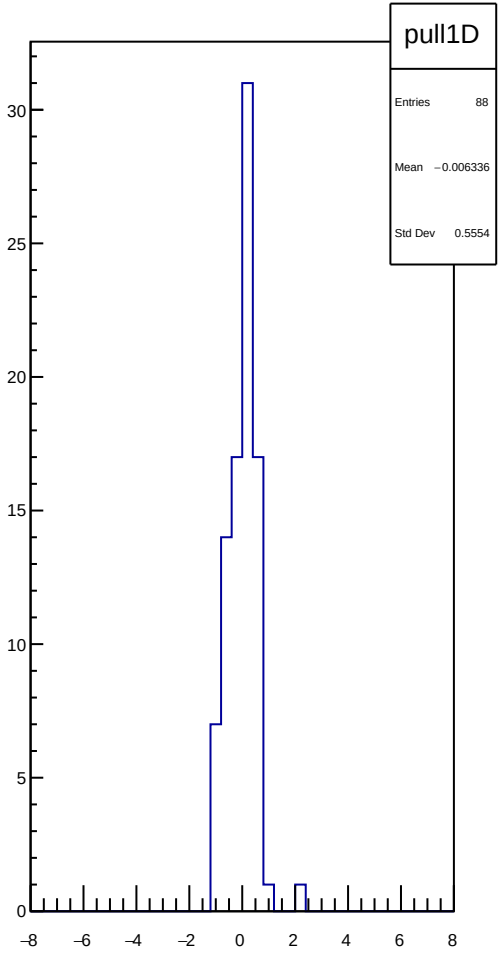

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2.374e+04 / 87
p0 203.1 ± 0.157
500
450
400
350
300
250
200
150

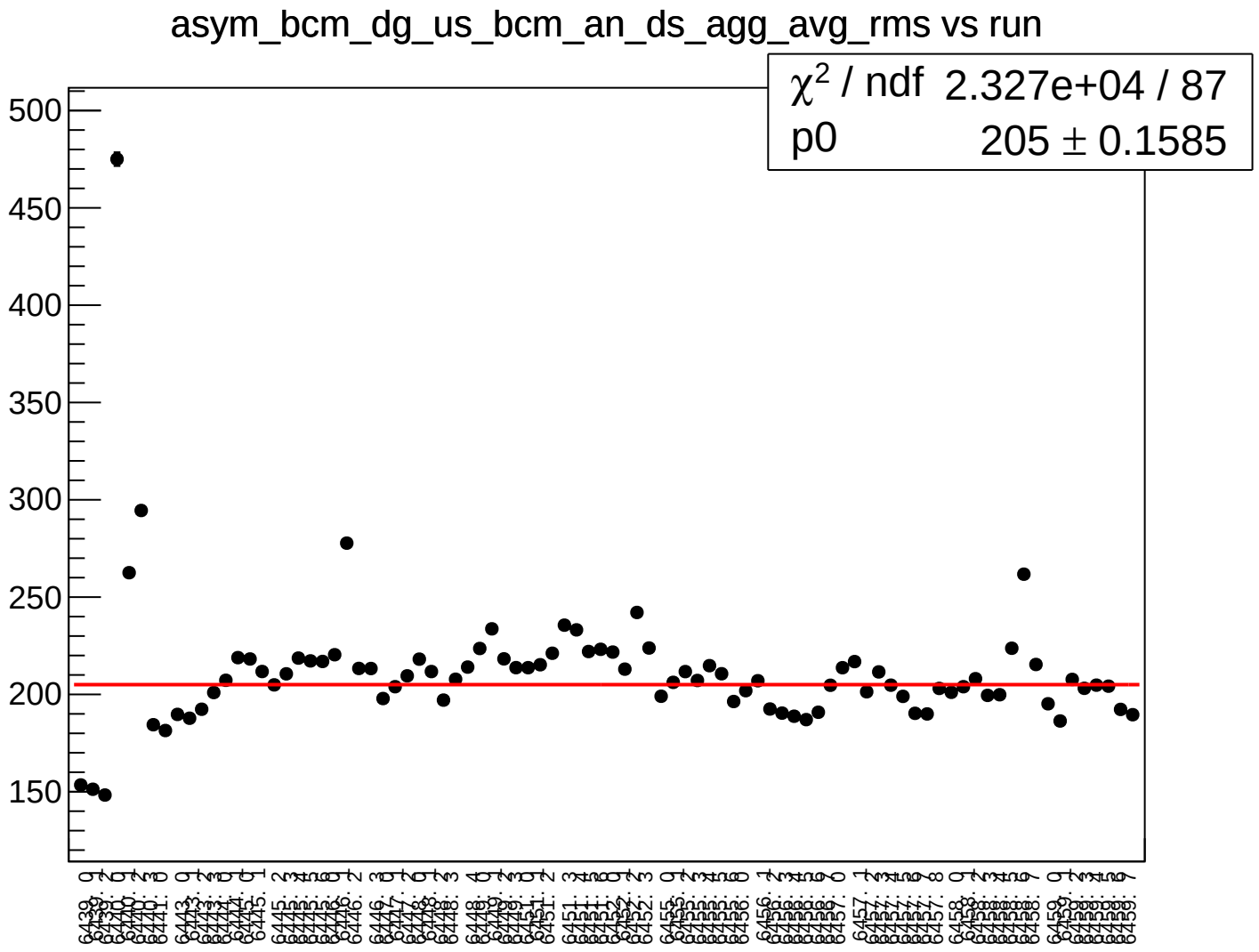

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 79.01 / 87
p0 −0.8841 ± 11.69
600
400
200
0
−200
−400
pull
Entries 88
Mean 30.79
Std Dev 49.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

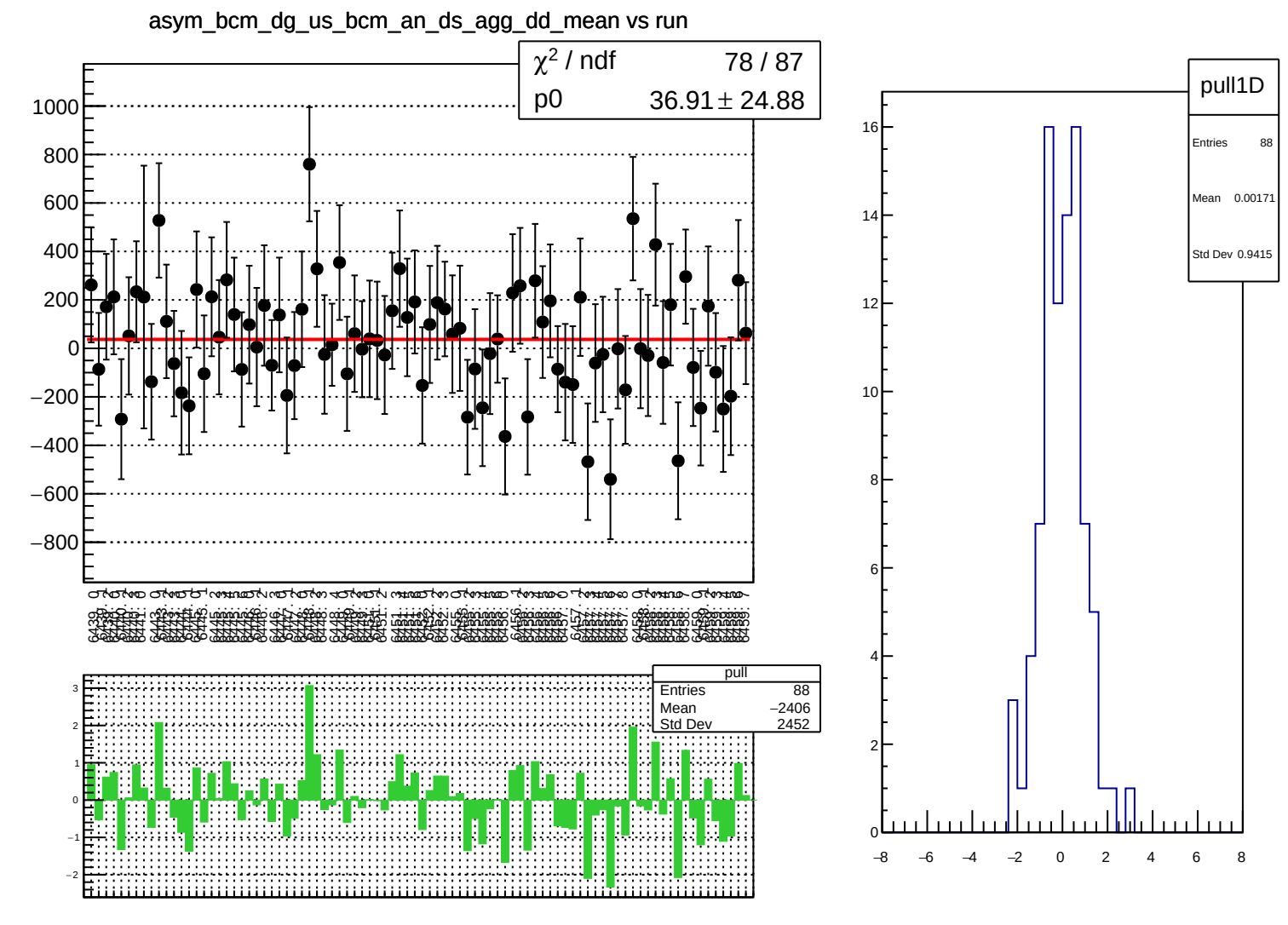

pull1D
Entries 88
Mean 0.01294
Std Dev 0.9475
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

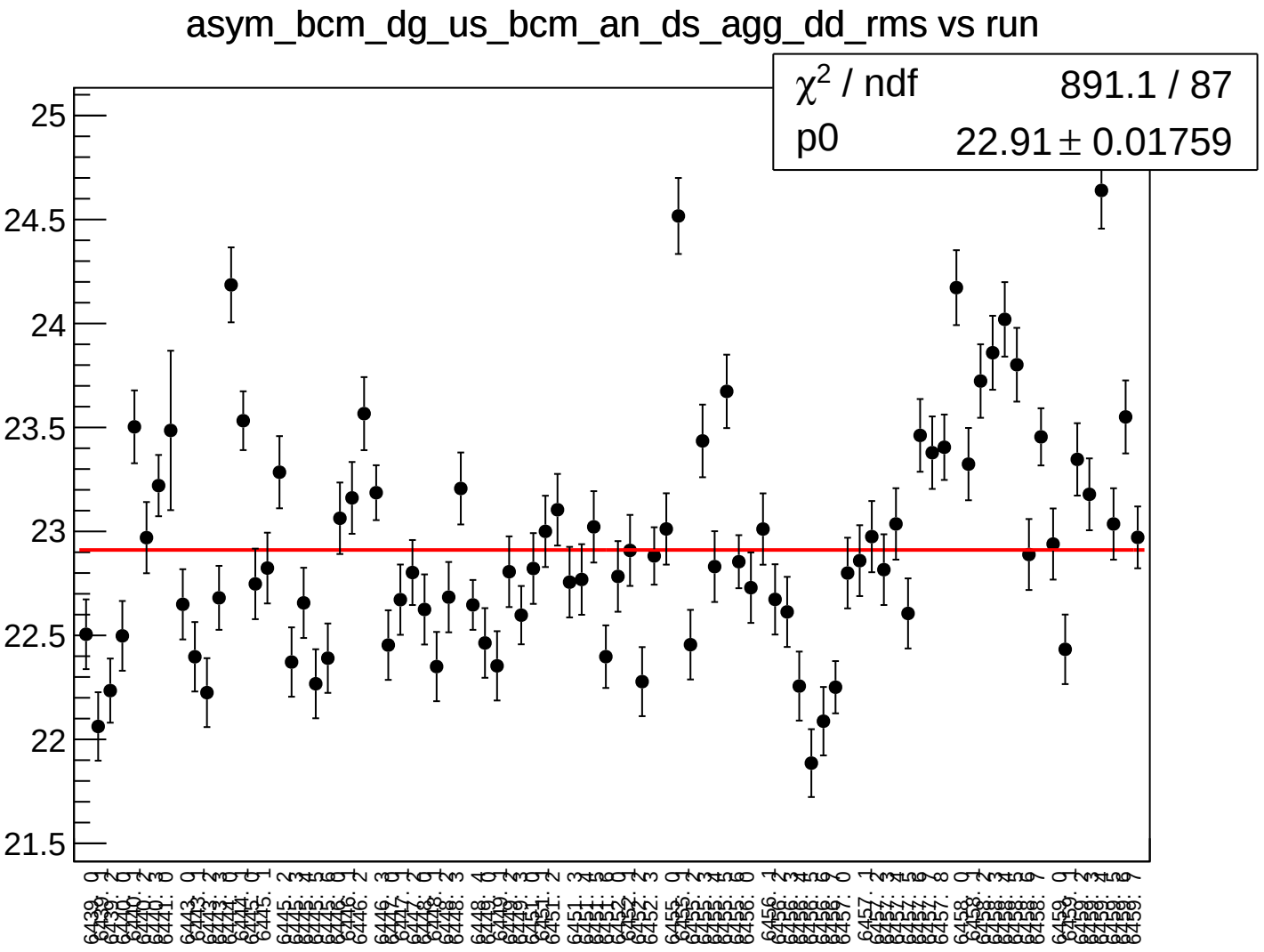

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.888e+04 / 87
p0 10.67 ± 0.008263
17
16
15
14
13
12
11
10
9

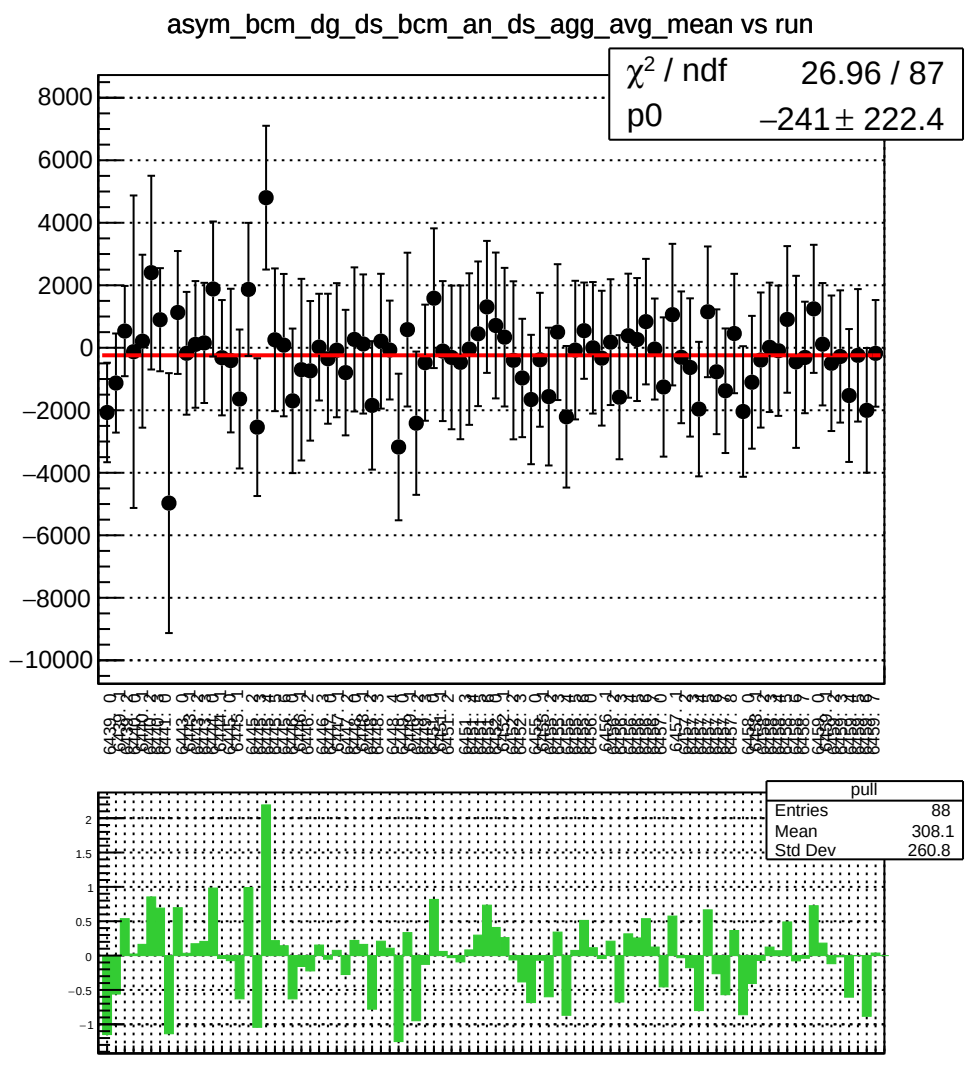

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 27.15 / 87
p0 −199.8 ± 224.1
pull
Entries 88
Mean 314.9
Std Dev 265.6

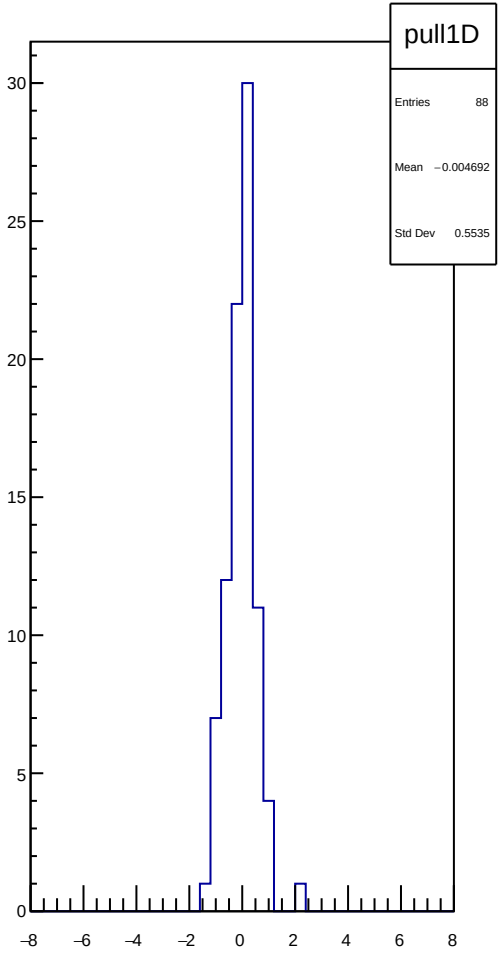

pull1D
Entries 88
Mean −0.006336
Std Dev 0.5554

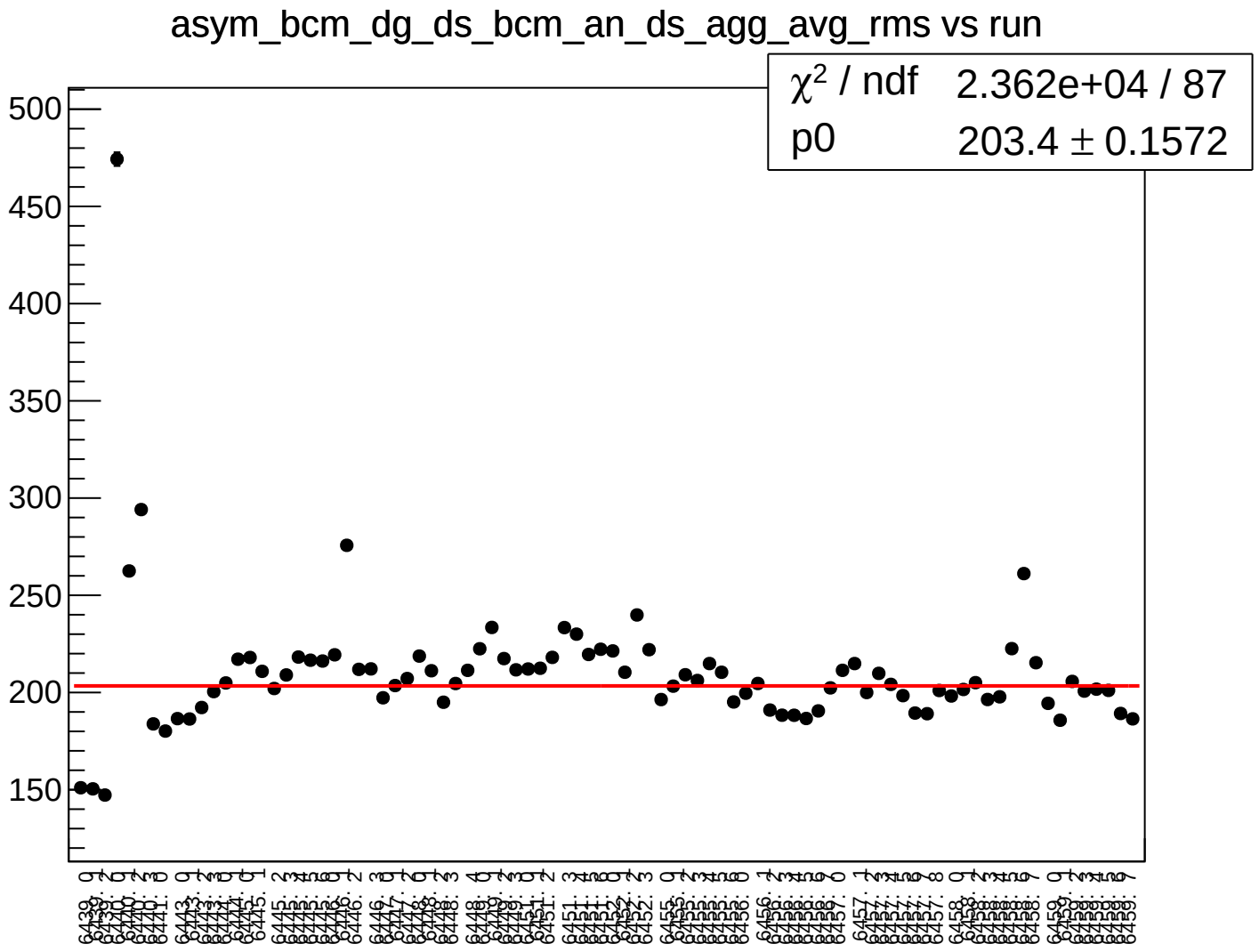

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.327e+04 / 87
p0 205 ± 0.1585
500
450
400
350
300
250
200
150

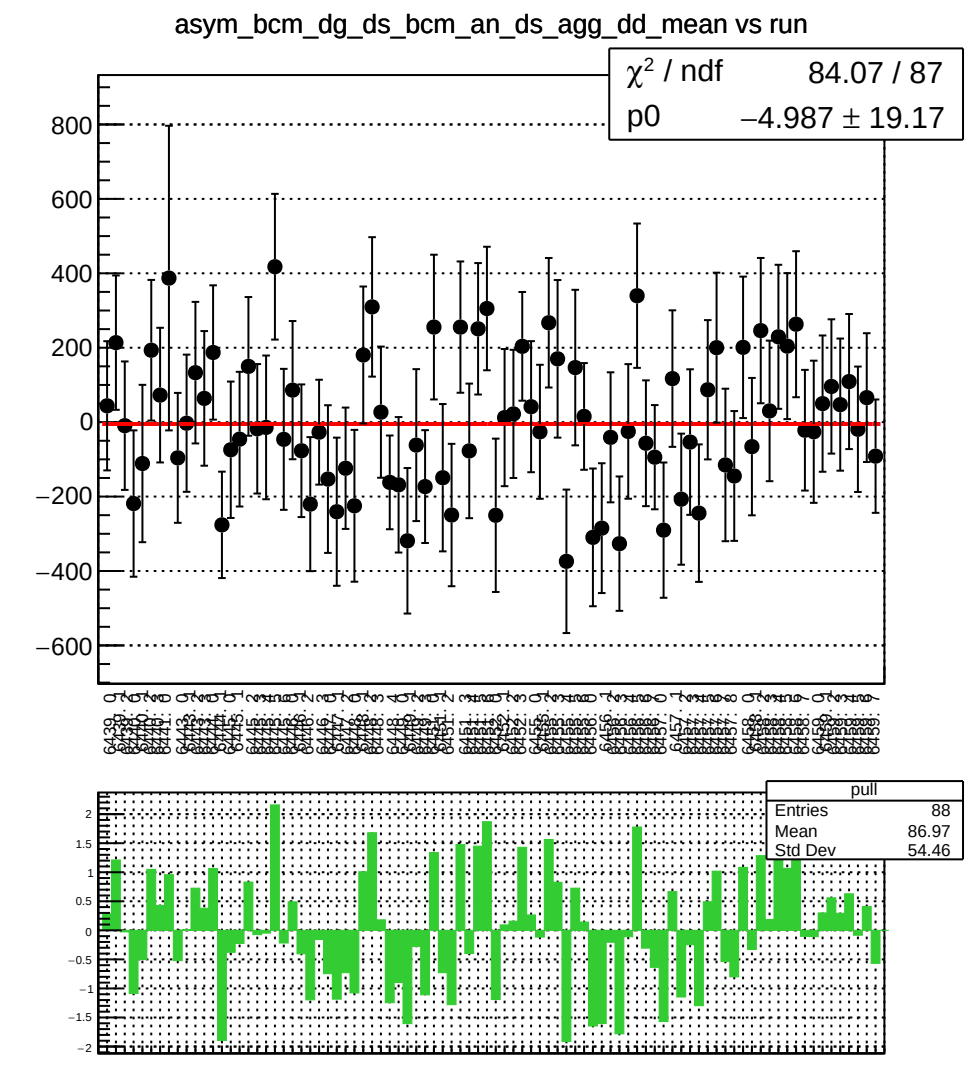

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 78 / 87
p0 36.91 ± 24.88
pull
Entries 88
Mean −2406
Std Dev 2452
pull1D
Entries 88
Mean 0.00171
Std Dev 0.9415

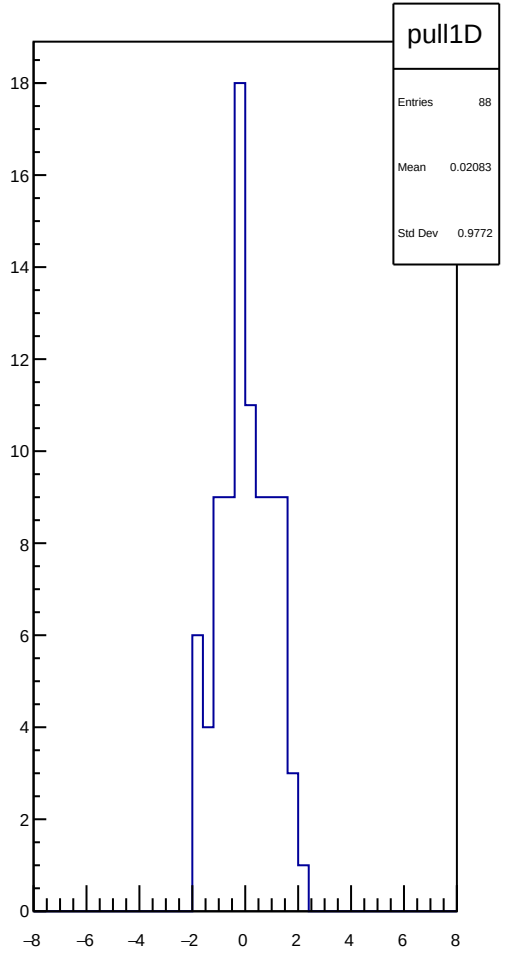

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ^2 / ndf 891.1 / 87
p0 22.91 ± 0.01759
25
24.5
24
23.5
23
22.5
22
21.5

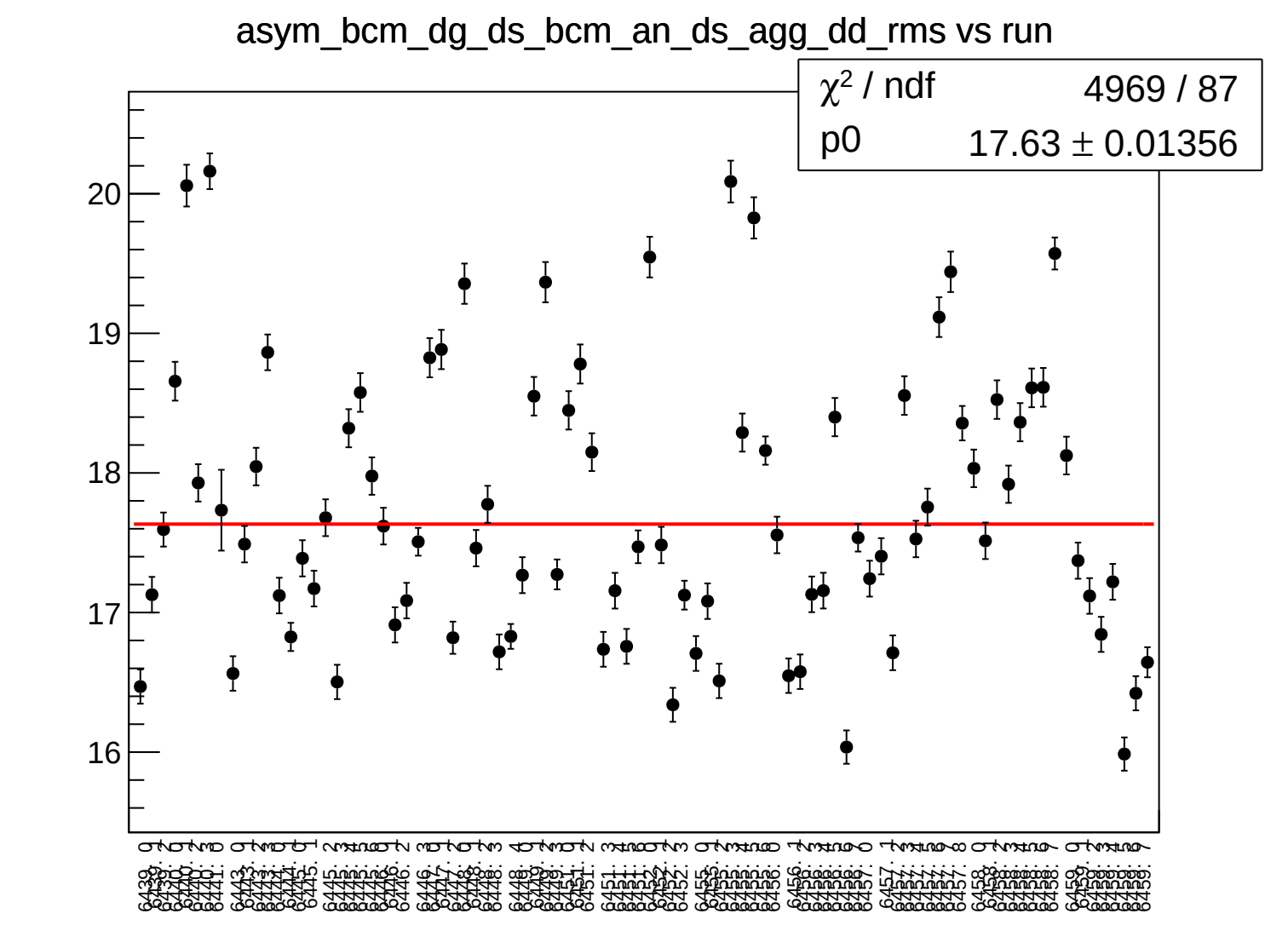

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 26.96 / 87
p0 −241 ± 222.4
pull
Entries 88
Mean 308.1
Std Dev 260.8

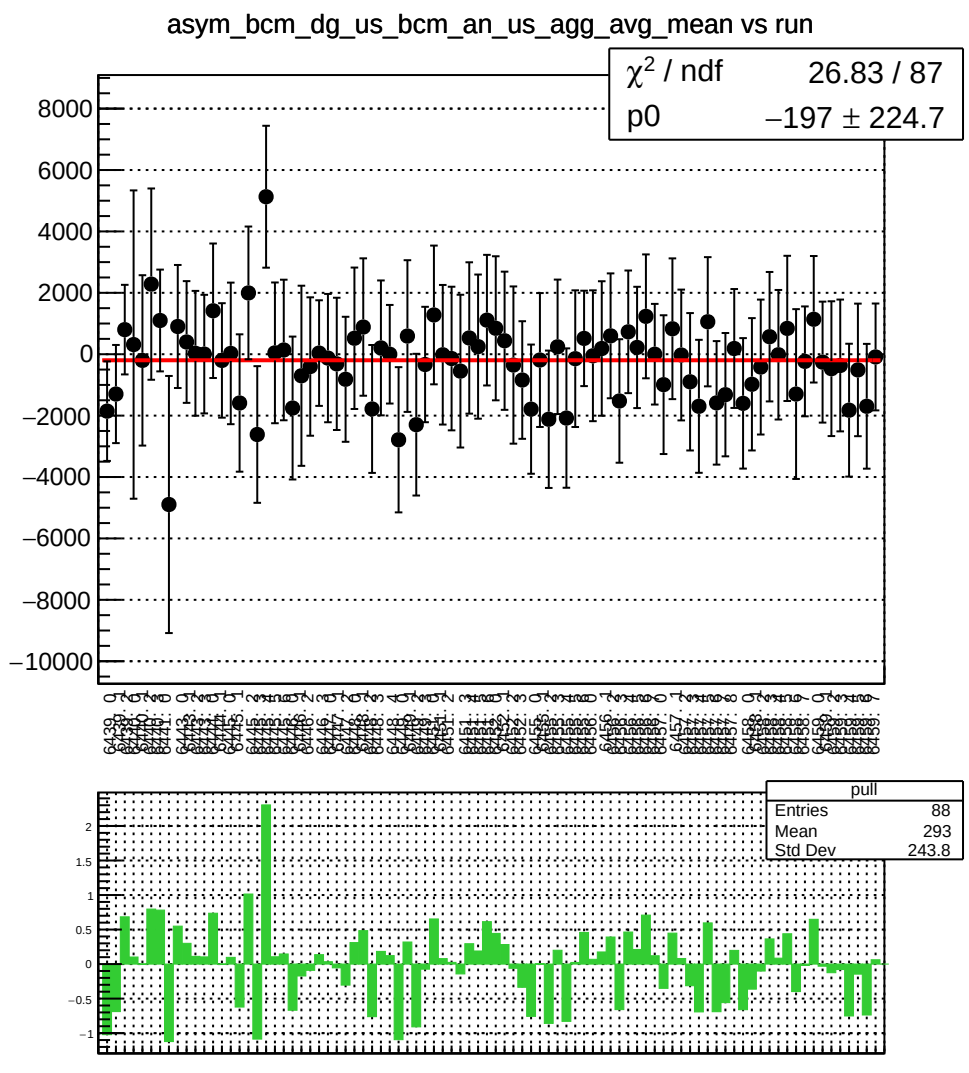

pull1D
Entries 88
Mean −0.004692
Std Dev 0.5535

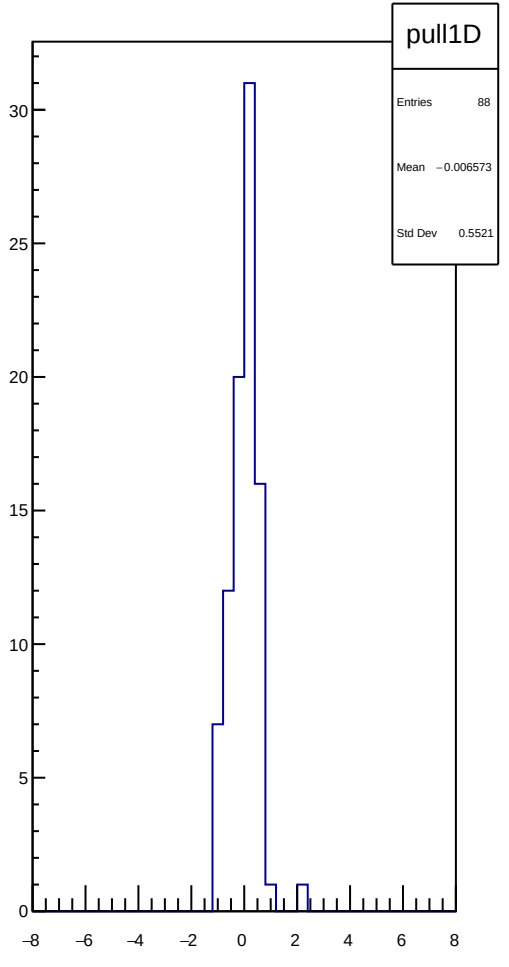

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.362e+04 / 87
p0 203.4 ± 0.1572
500
450
400
350
300
250
200
150

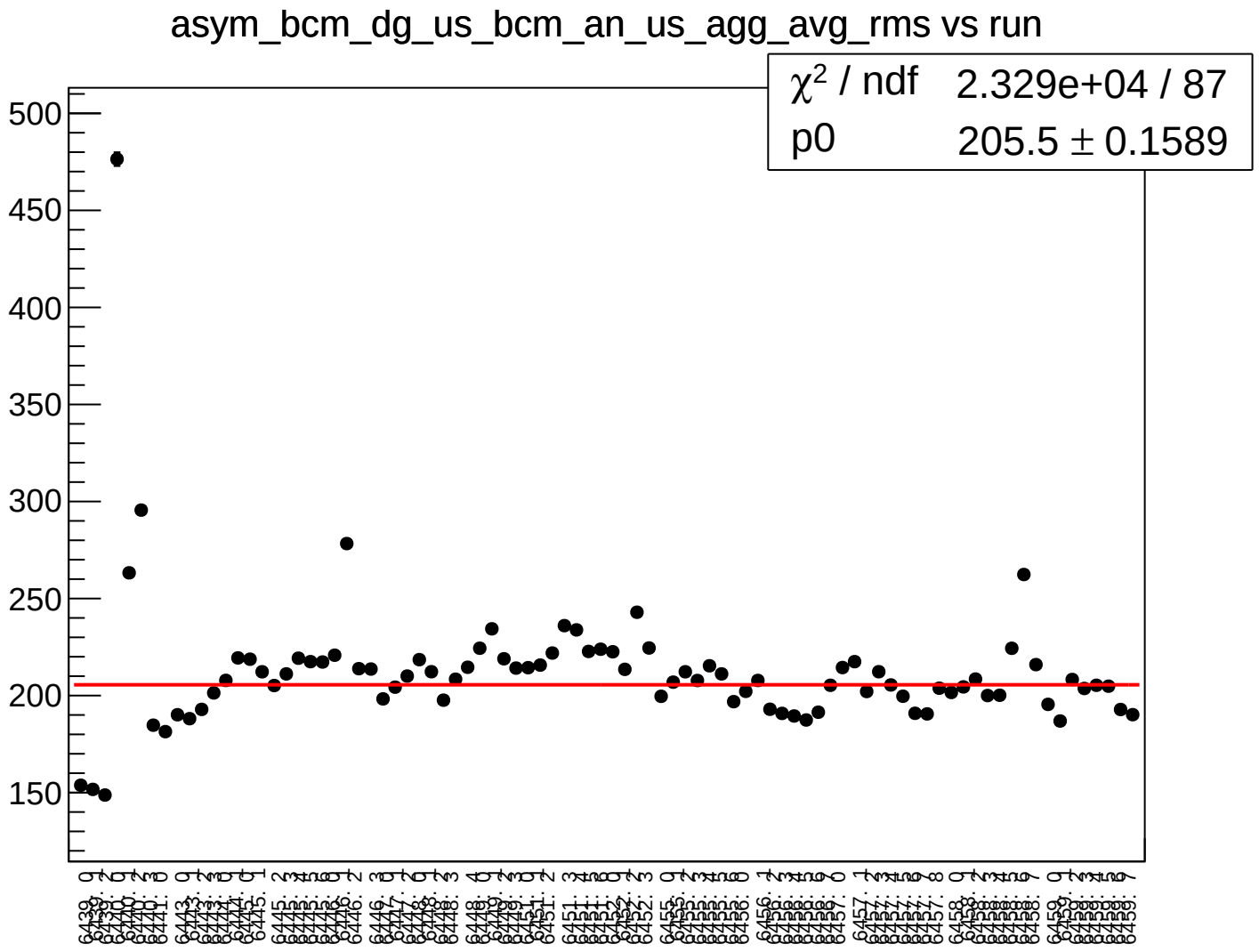

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 84.07 / 87
p0 −4.987 ± 19.17
pull
Entries 88
Mean 86.97
Std Dev 54.46

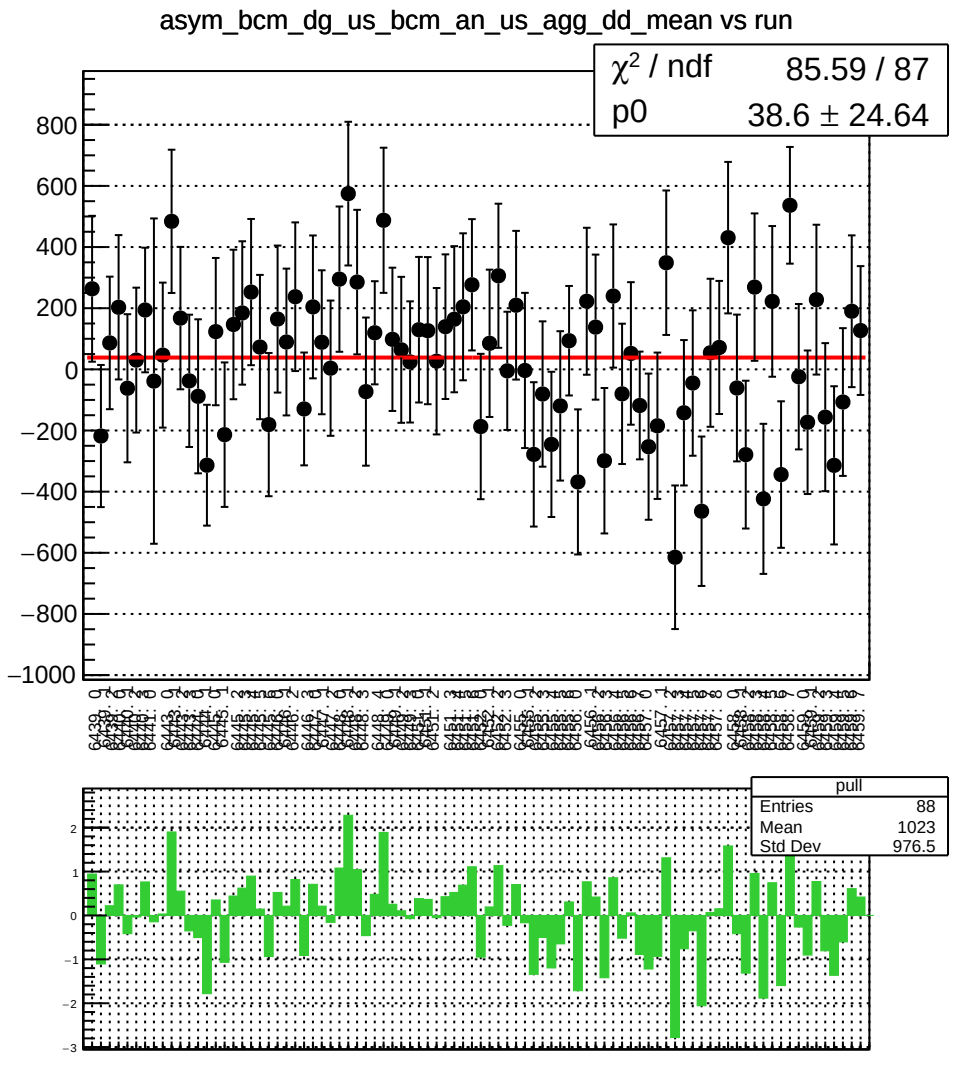

pull1D
Entries 88
Mean 0.02083
Std Dev 0.9772

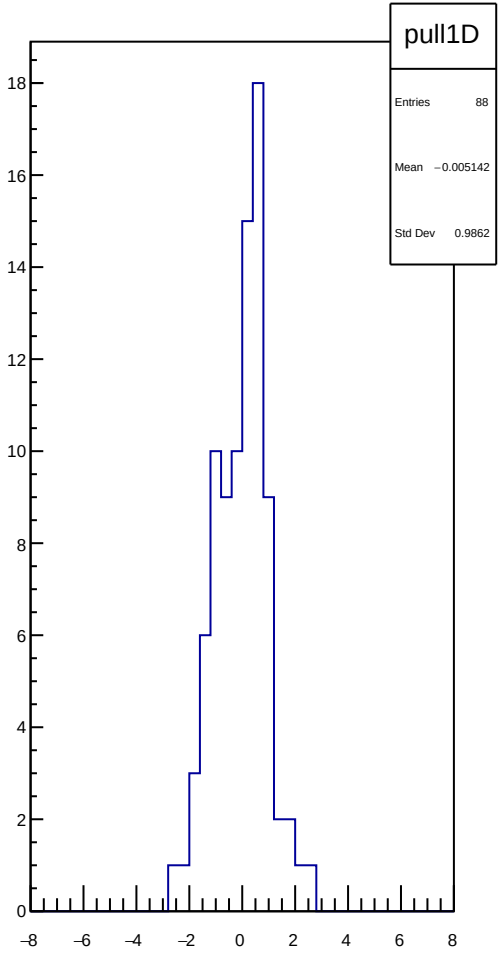

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4969 / 87
p0 17.63 ± 0.01356
20
19
18
17
16

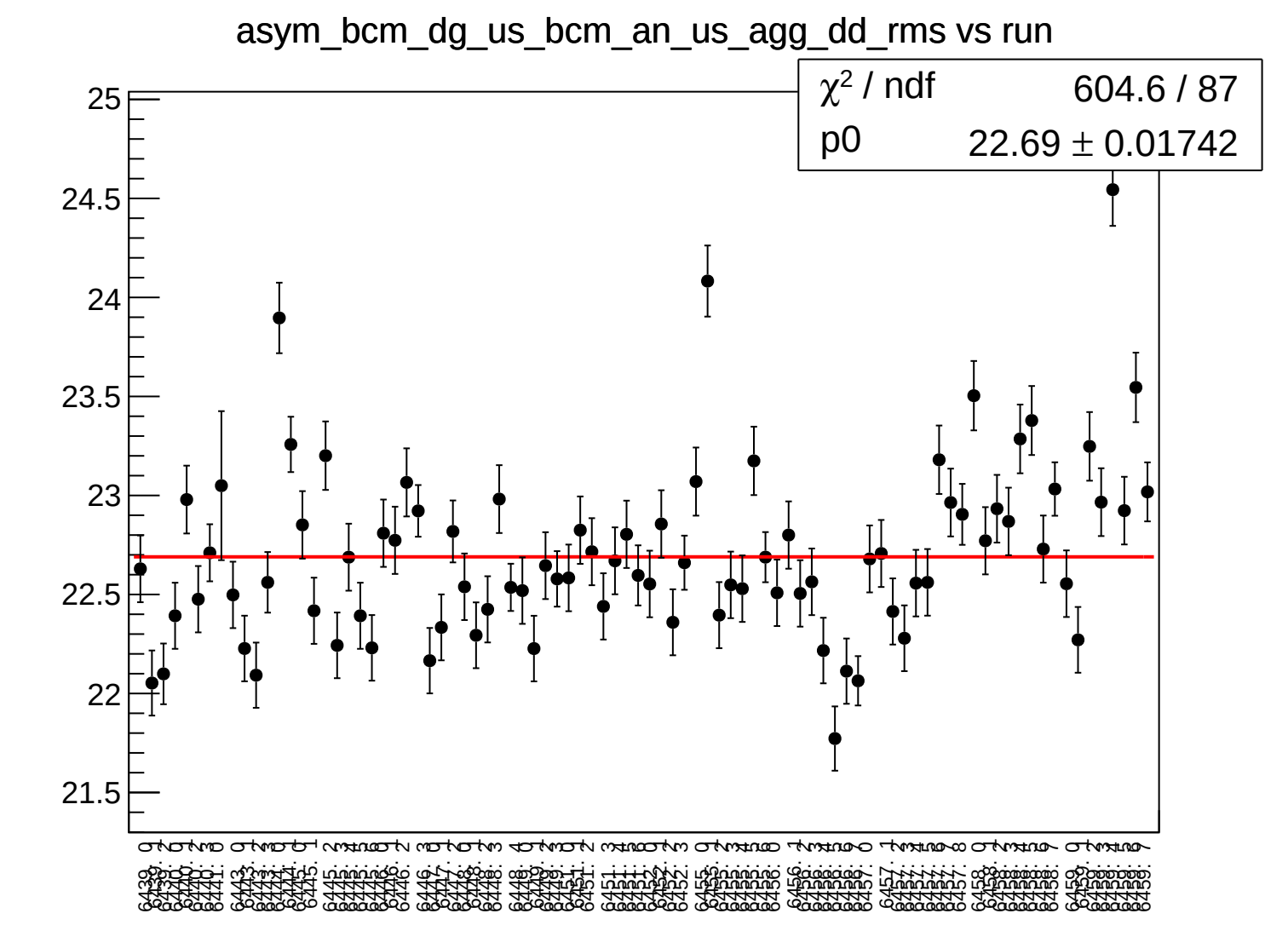

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 26.83 / 87
p0 −197 ± 224.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 88
Mean 293
Std Dev 243.8
2
1.5
1
0.5
0
−0.5
−1

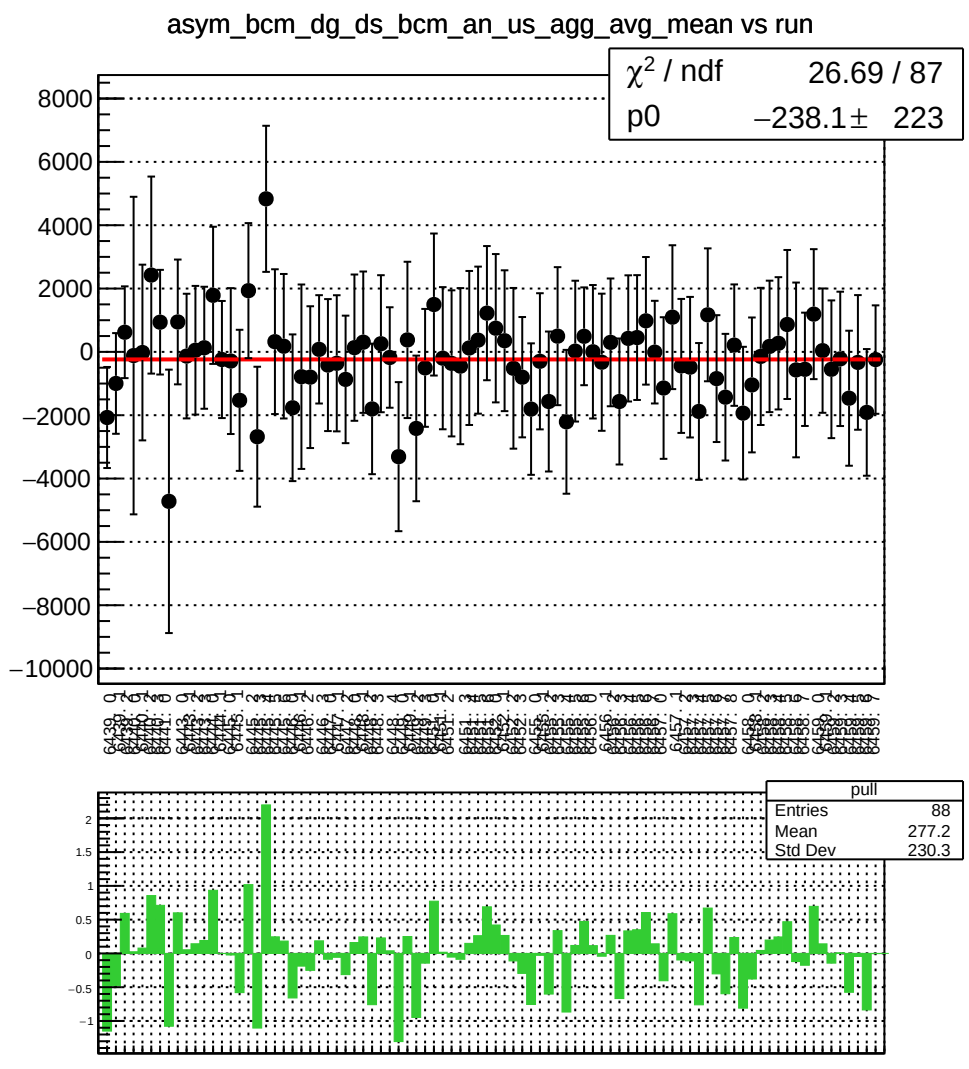

pull1D
Entries 88
Mean −0.006573
Std Dev 0.5521
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

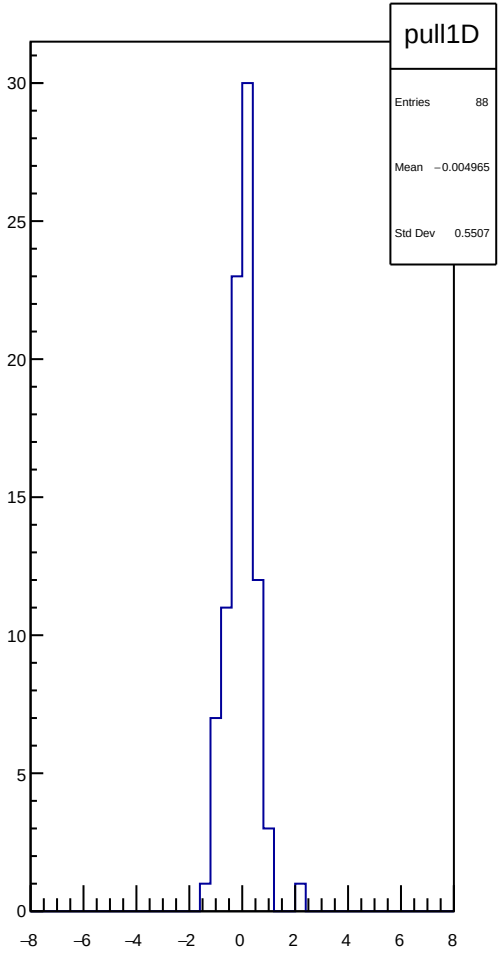

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.329e+04 / 87
p0 205.5 ± 0.1589
500
450
400
350
300
250
200
150

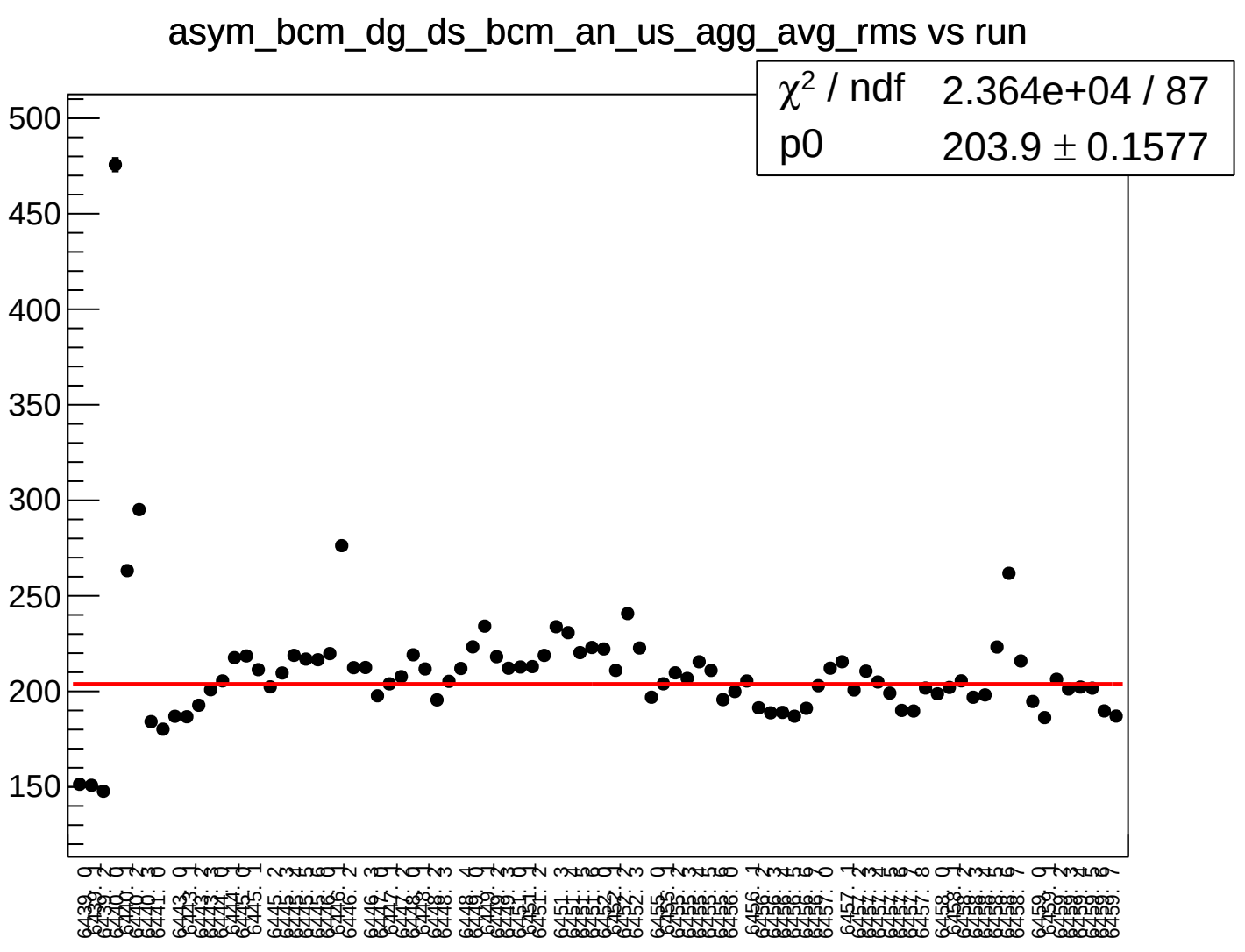

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 85.59 / 87
p0 38.6 ± 24.64
pull
Entries 88
Mean 1023
Std Dev 976.5

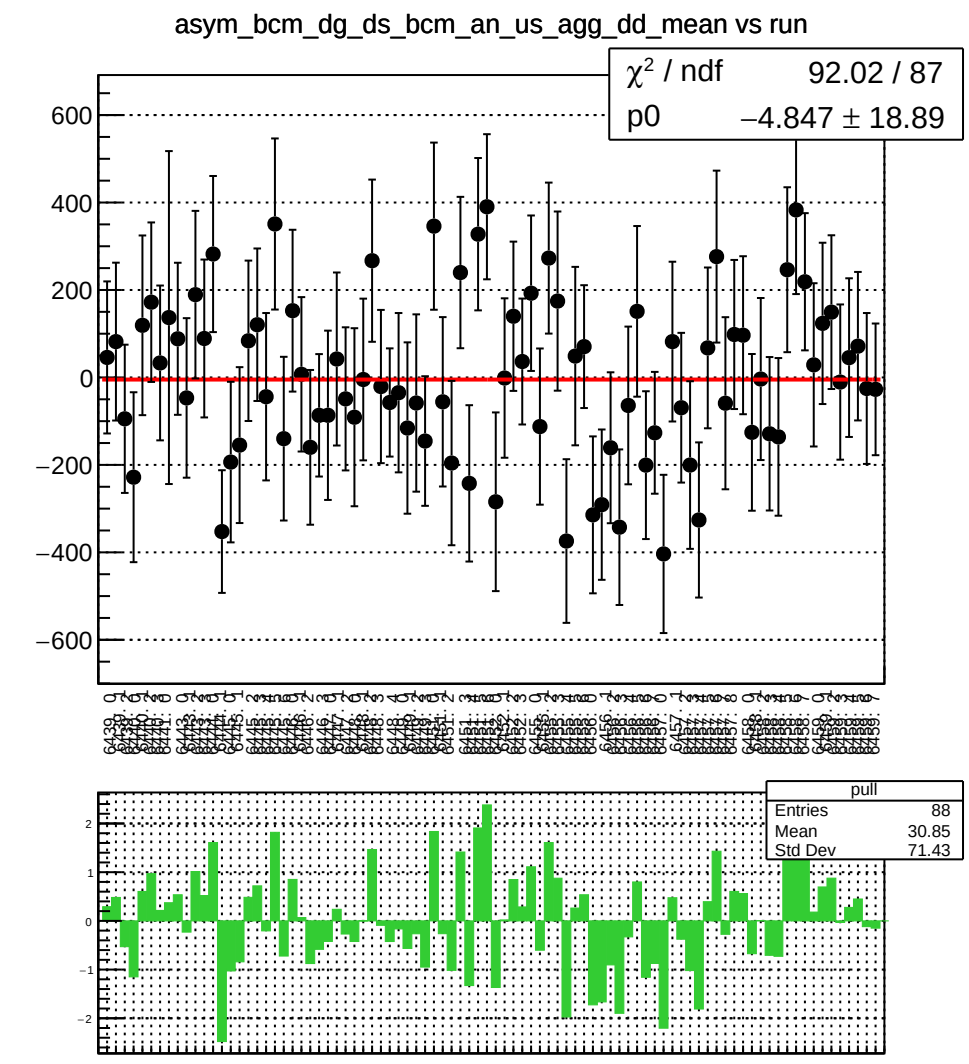

pull1D
Entries 88
Mean −0.005142
Std Dev 0.9862

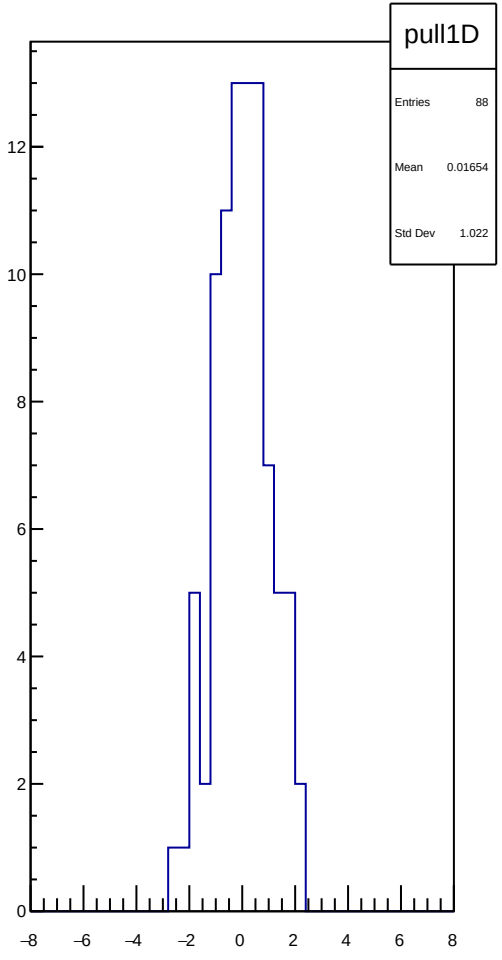

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 604.6 / 87
p0 22.69 ± 0.01742
25
24.5
24
23.5
23
22.5
22
21.5

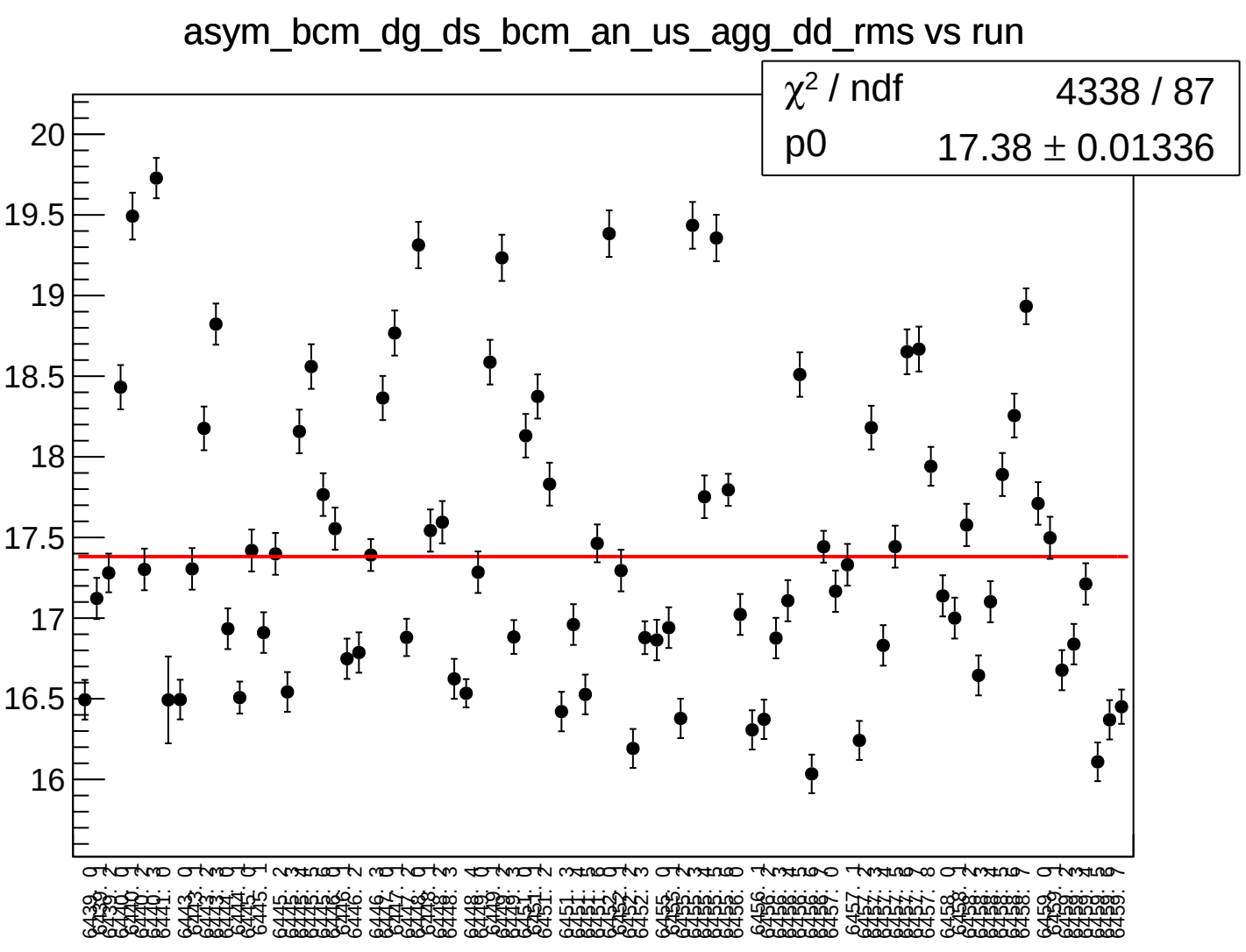

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 26.69 / 87
p0 −238.1± 223
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 88
Mean 277.2
Std Dev 230.3
2
1.5
1
0.5
0
−0.5
−1

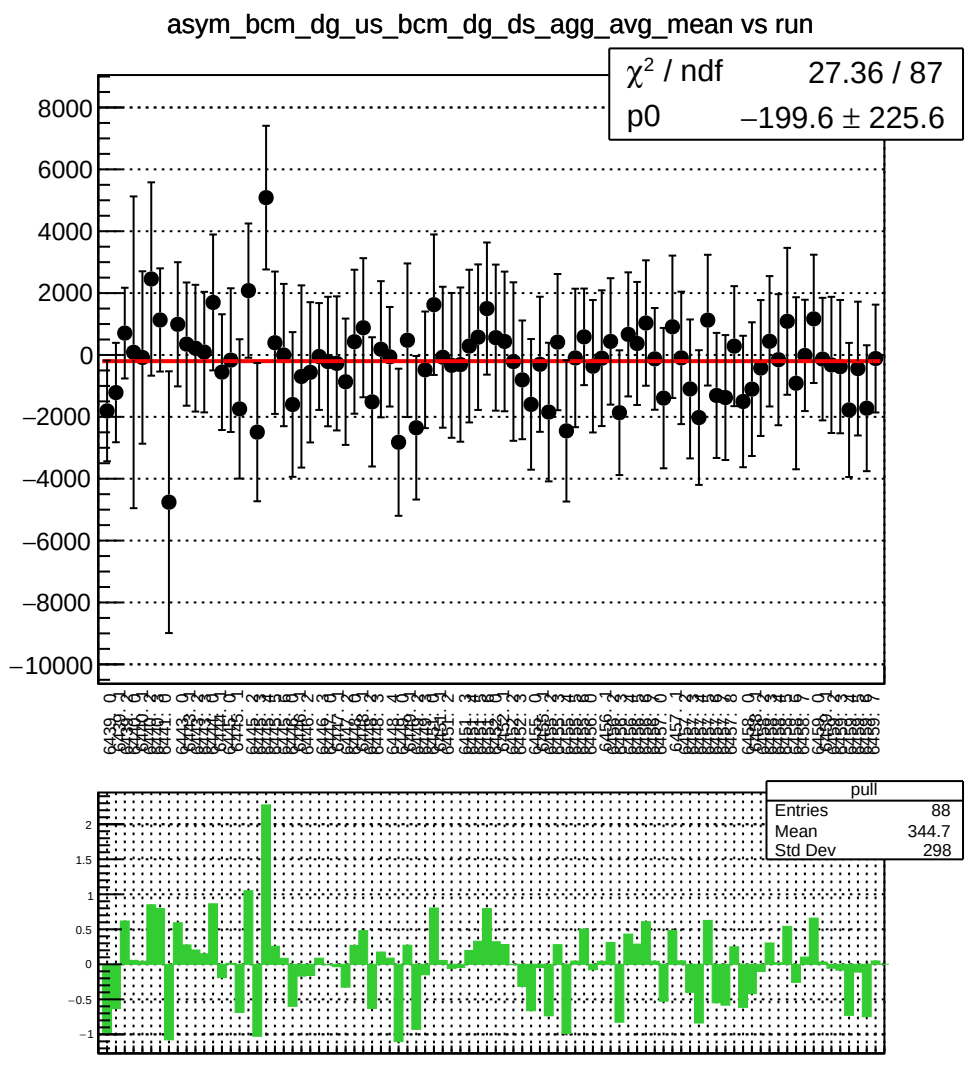

pull1D
Entries 88
Mean −0.004965
Std Dev 0.5507
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

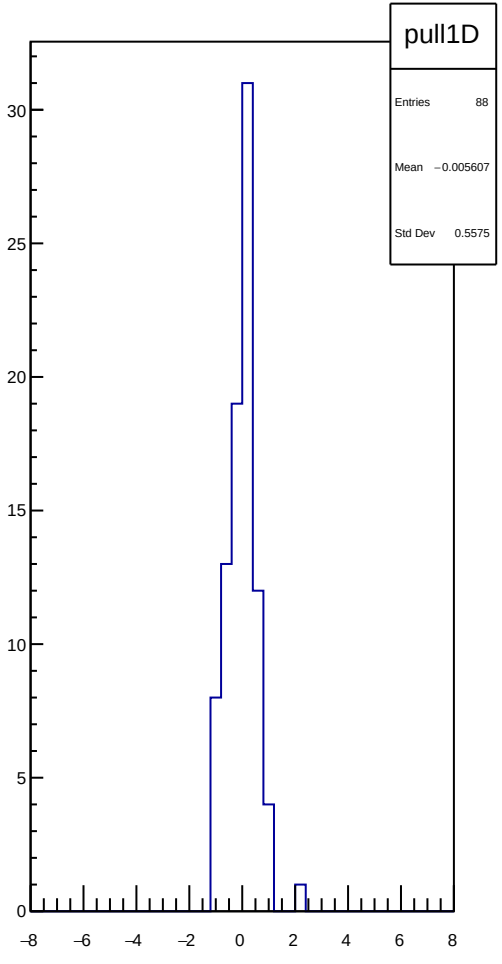

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.364e+04 / 87
p0 203.9 ± 0.1577
500
450
400
350
300
250
200
150

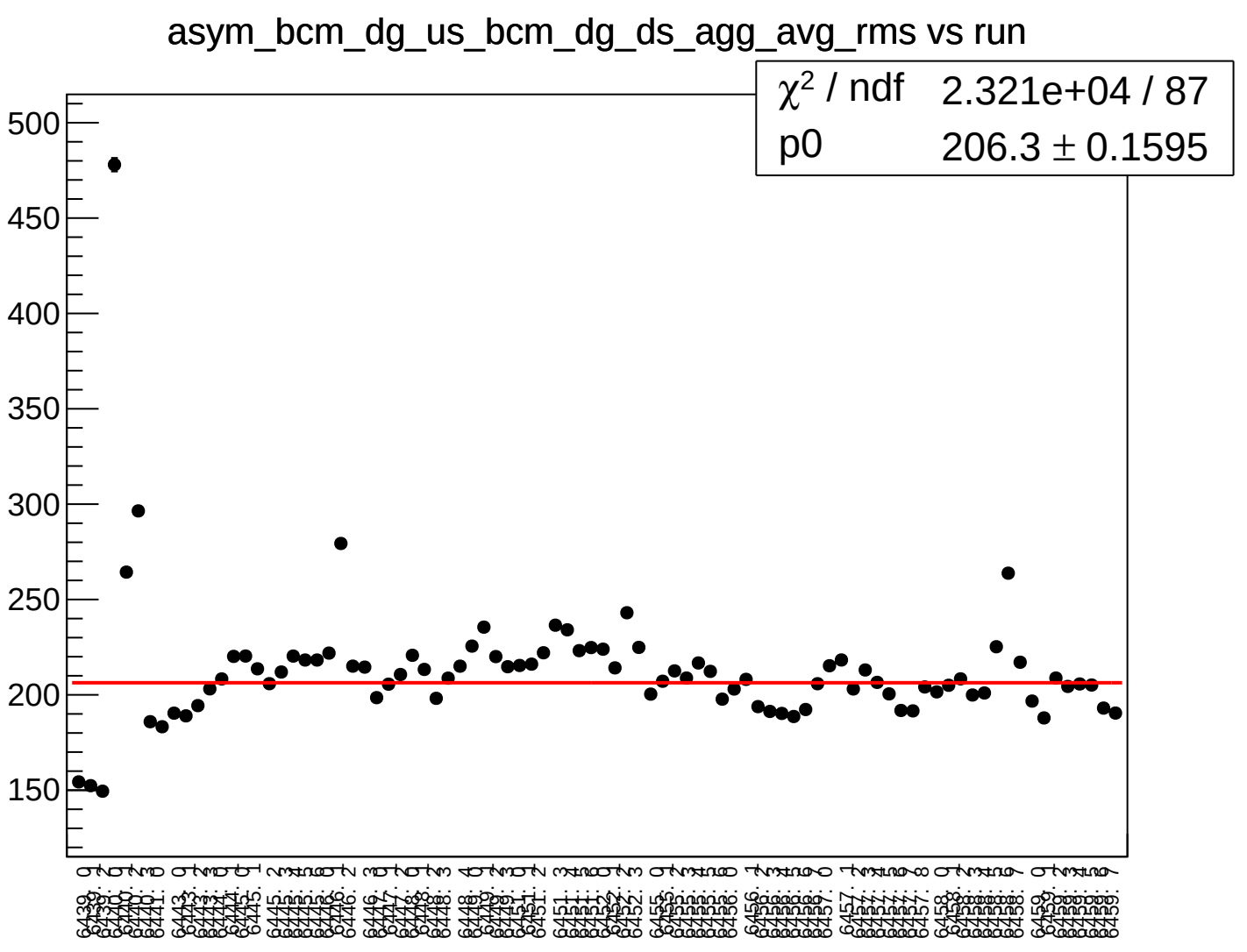

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 92.02 / 87
p0 −4.847 ± 18.89
pull
Entries 88
Mean 30.85
Std Dev 71.43

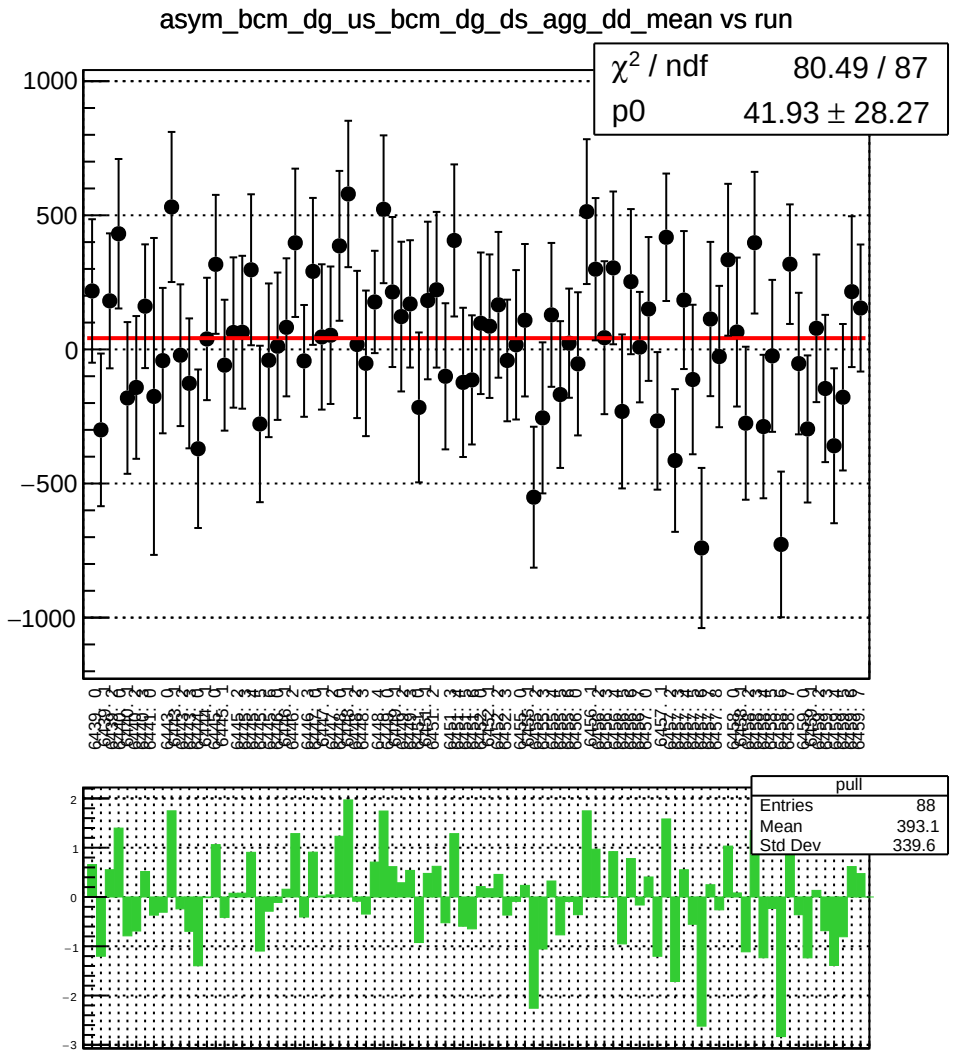

pull1D
Entries 88
Mean 0.01654
Std Dev 1.022

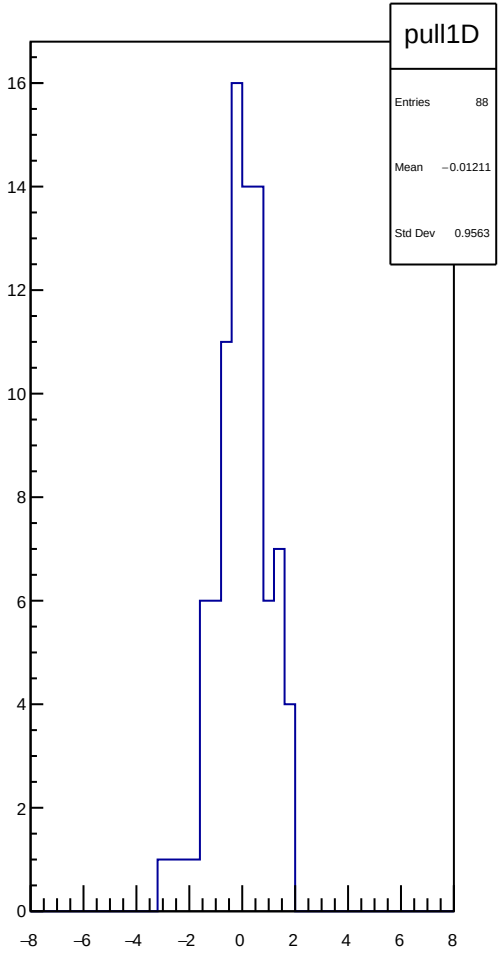

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 4338 / 87
p0 17.38 ± 0.01336
20
19.5
19
18.5
18
17.5
17
16.5
16

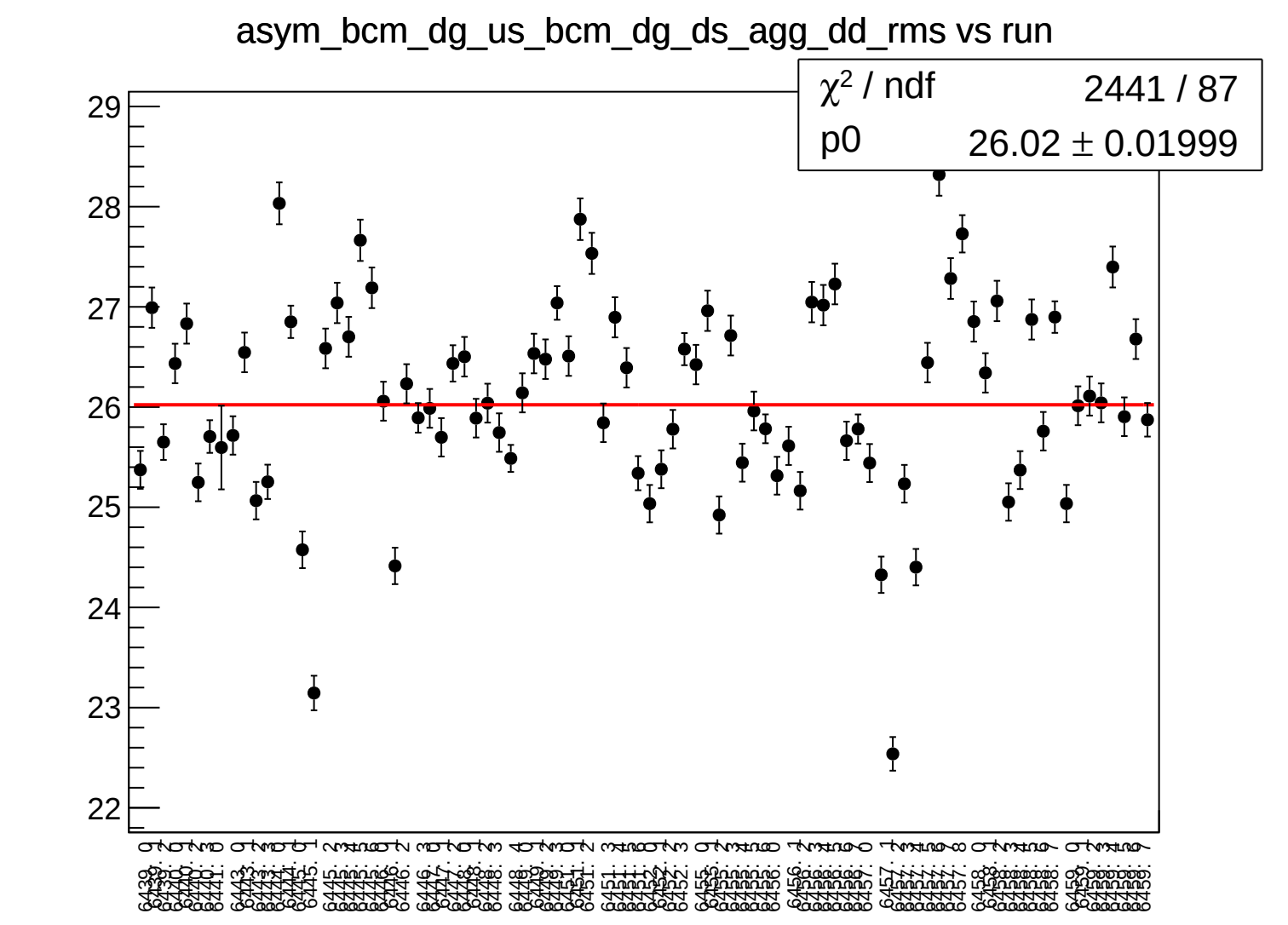

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 27.36 / 87
p0 −199.6 ± 225.6
pull
Entries 88
Mean 344.7
Std Dev 298

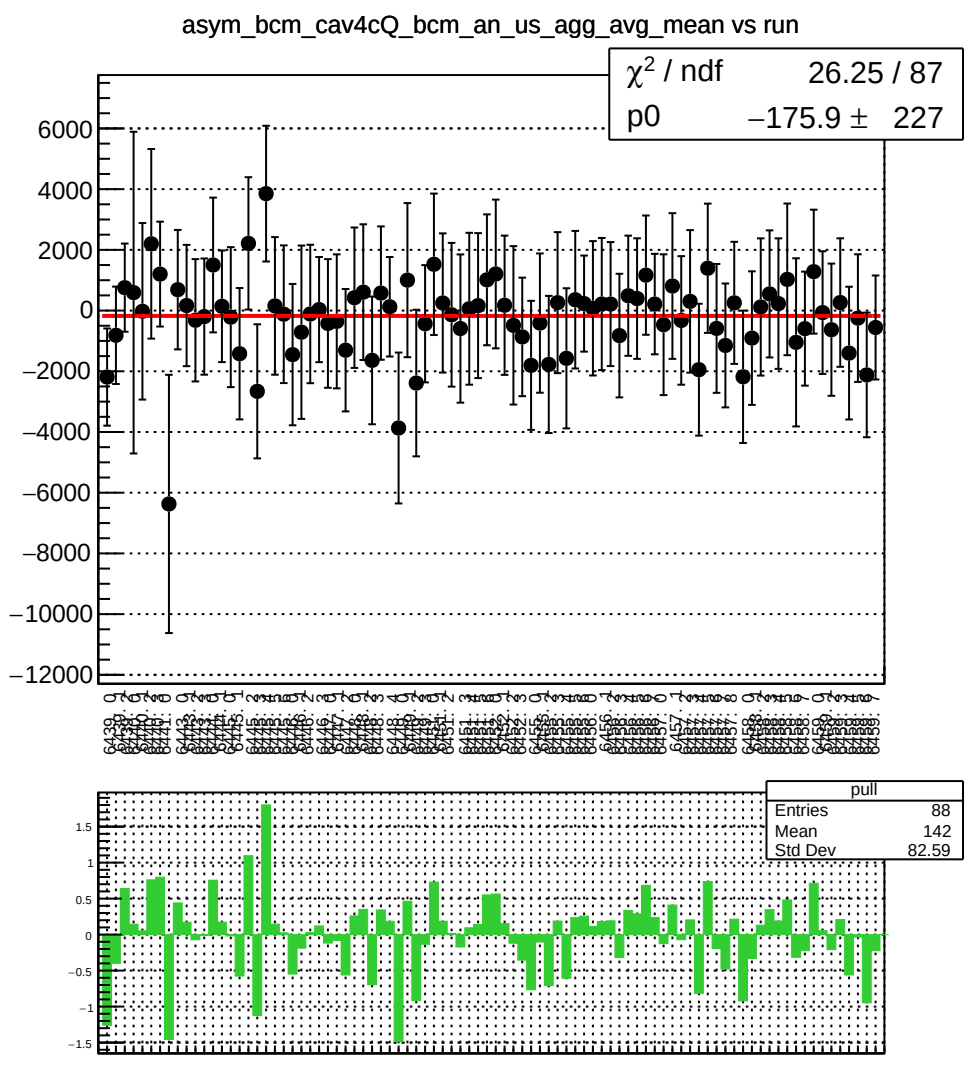

pull1D
Entries 88
Mean −0.005607
Std Dev 0.5575

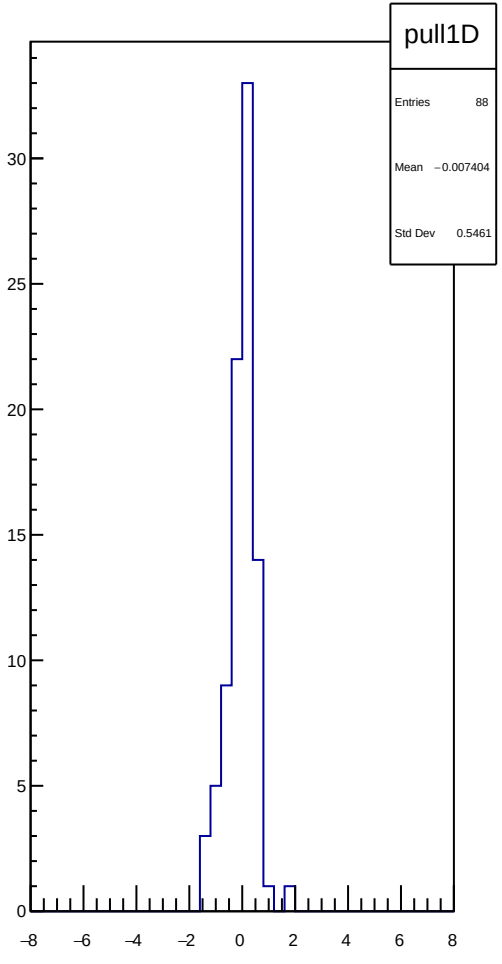

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.321e+04 / 87
p0 206.3 ± 0.1595
500
450
400
350
300
250
200
150

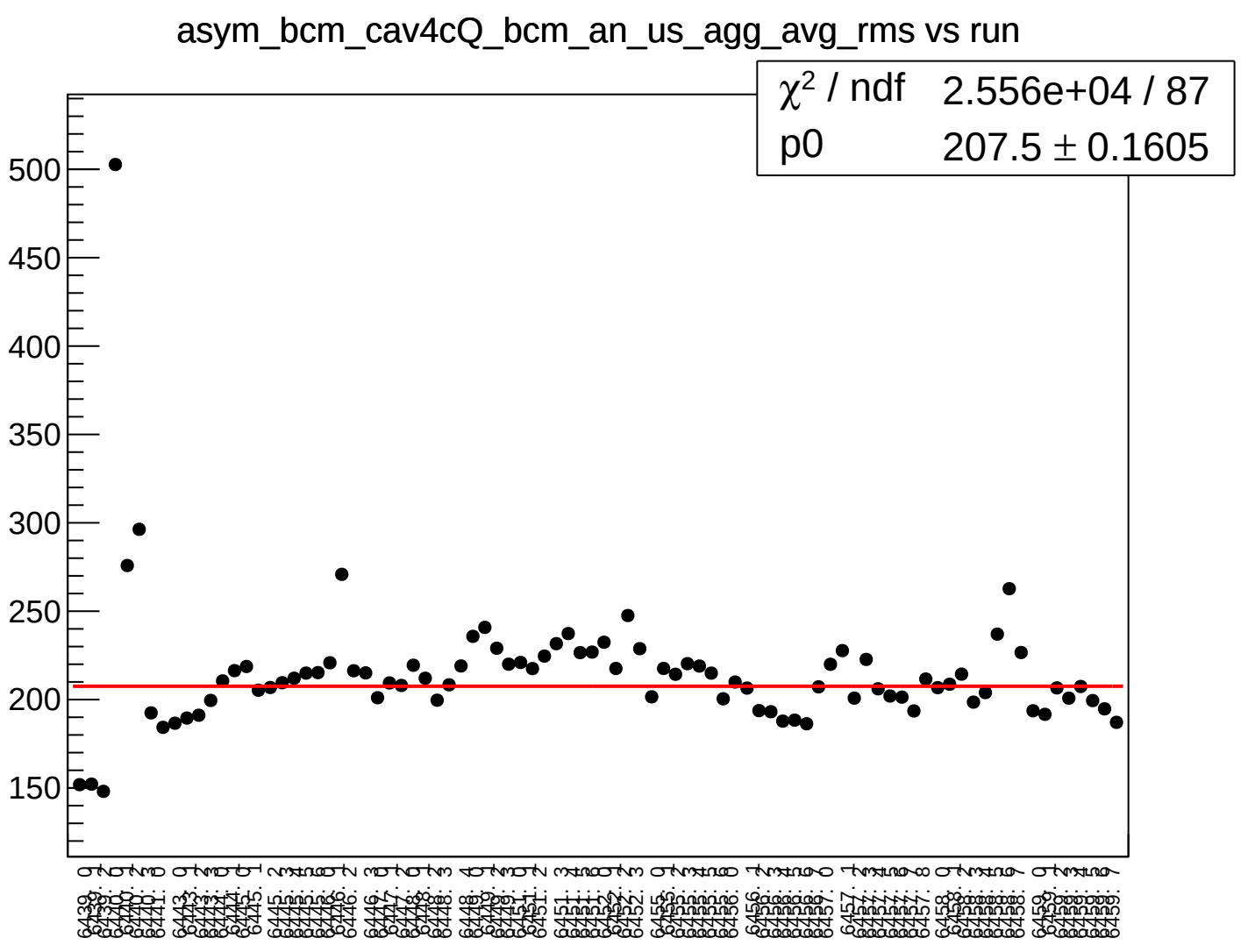

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 80.49 / 87
p0 41.93 ± 28.27
1000
500
0
−500
−1000
pull
Entries 88
Mean 393.1
Std Dev 339.6
2
1
0
−1
−2
−3

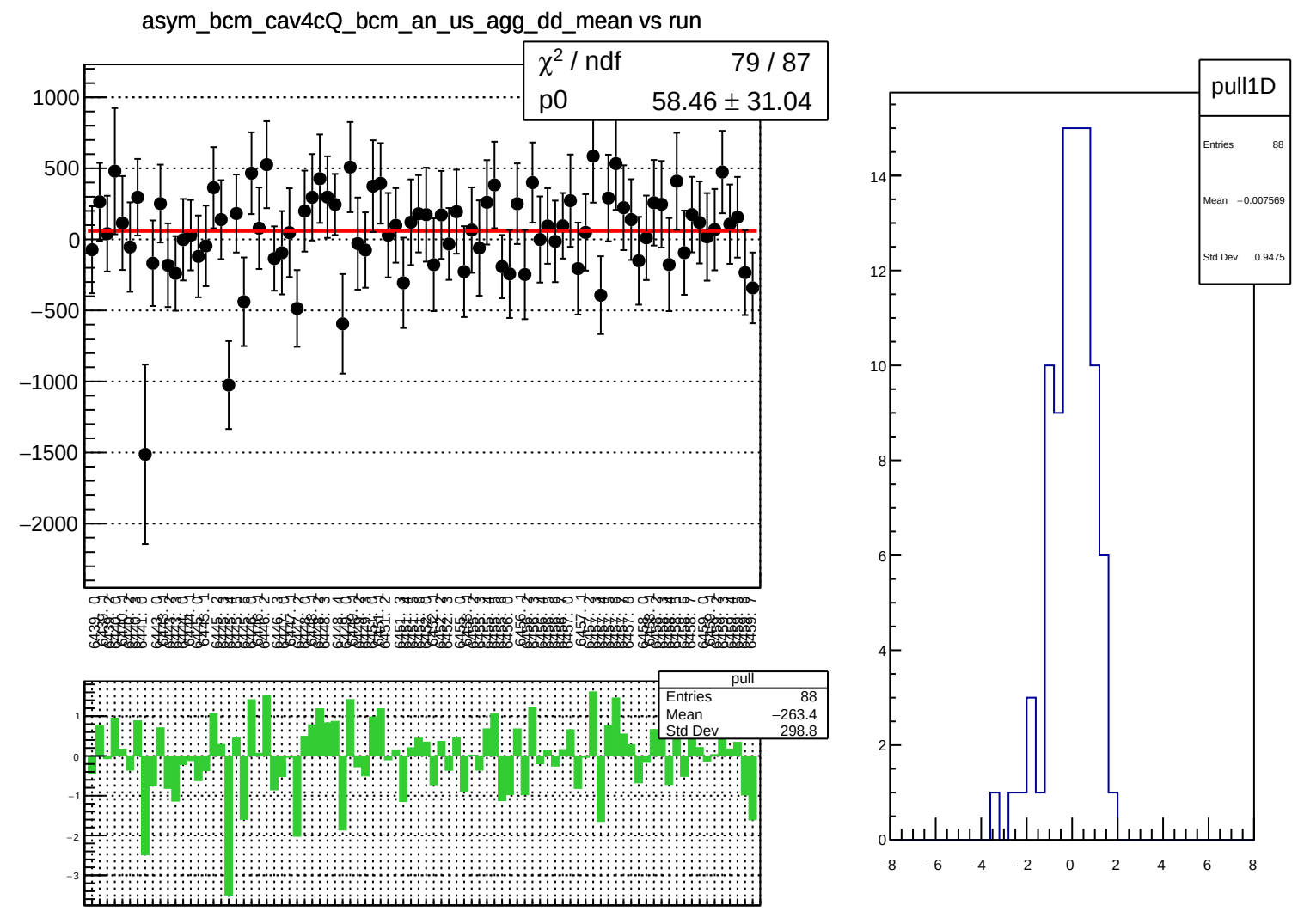

pull1D
Entries 88
Mean −0.01211
Std Dev 0.9563
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

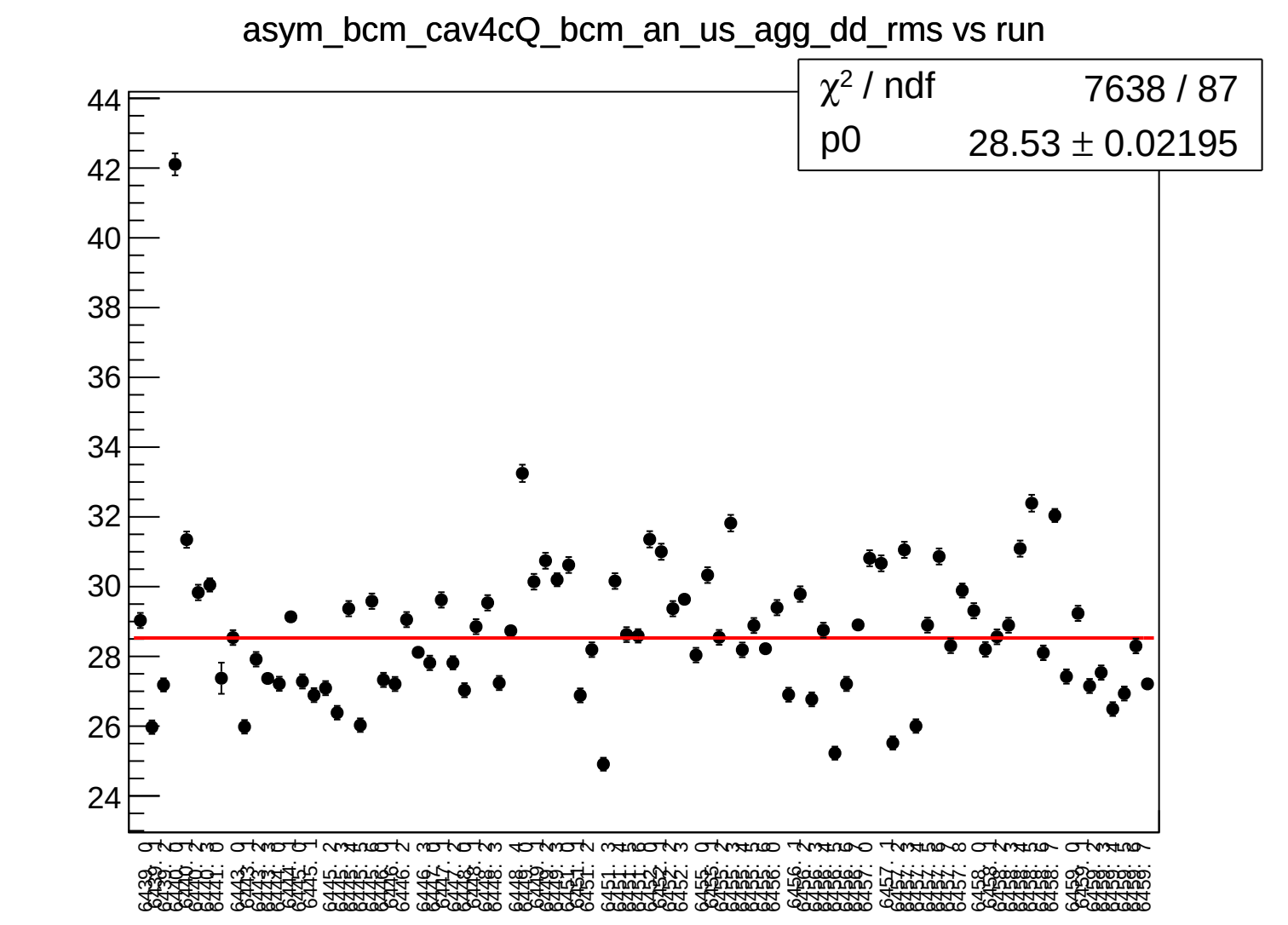

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2441 / 87
p0 26.02 ± 0.01999
29
28
27
26
25
24
23
22

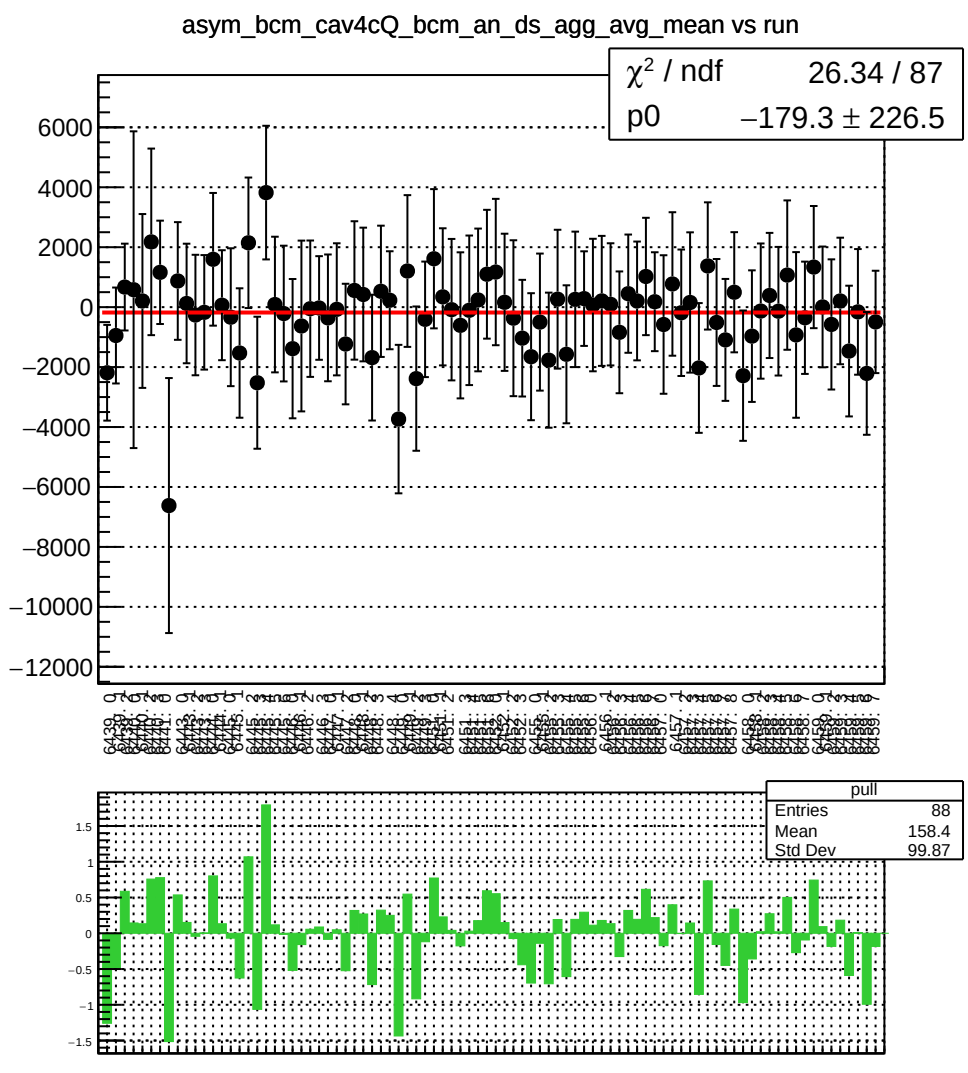

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 26.25 / 87
p0 −175.9 ± 227
pull
Entries 88
Mean 142
Std Dev 82.59

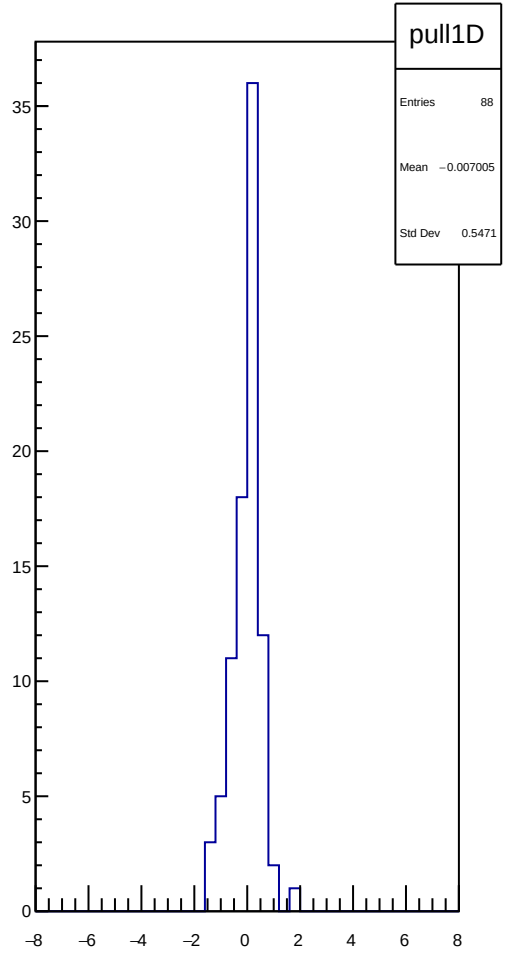

pull1D
Entries 88
Mean −0.007404
Std Dev 0.5461

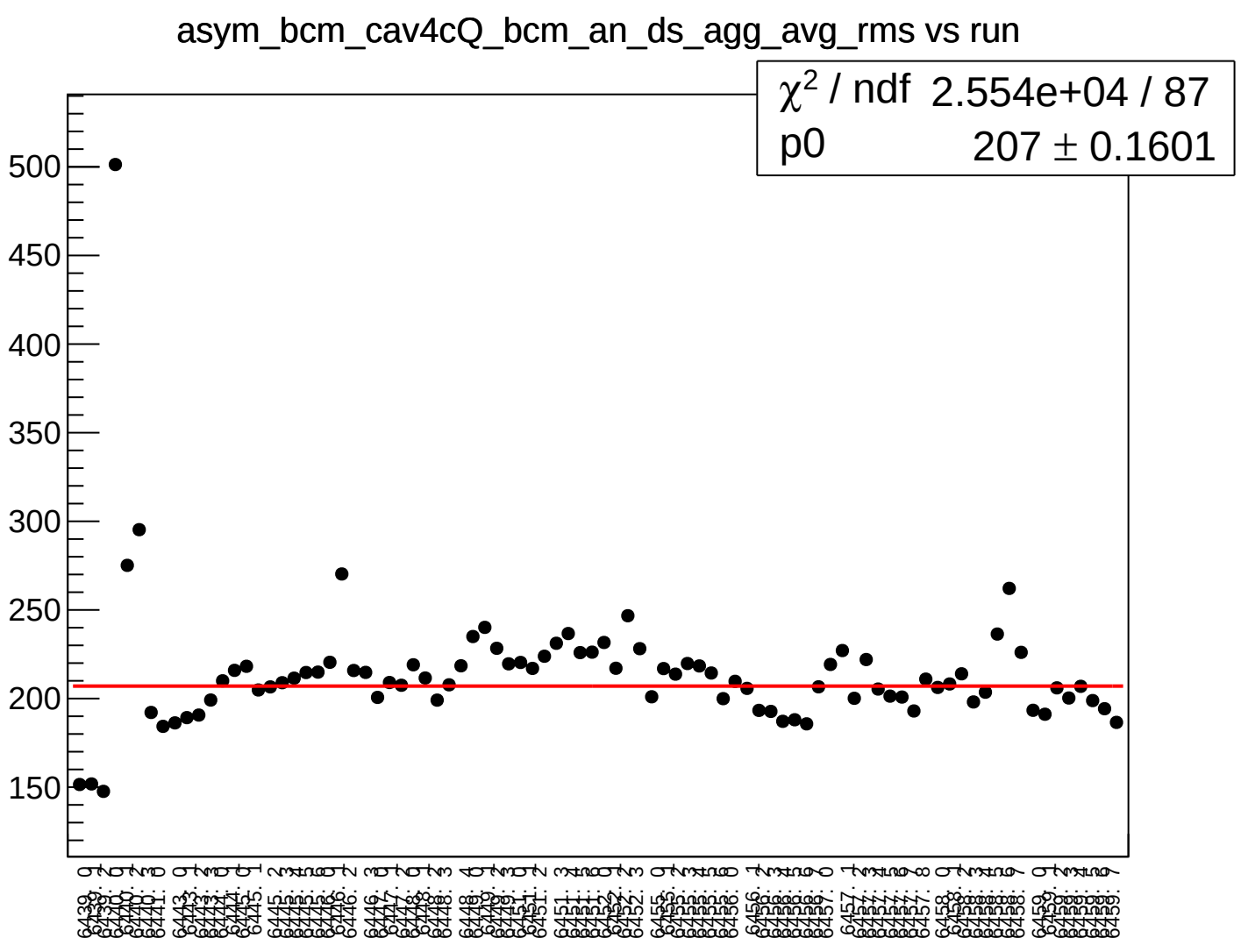

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.556e+04 / 87
p0 207.5 ± 0.1605
500
450
400
350
300
250
200
150

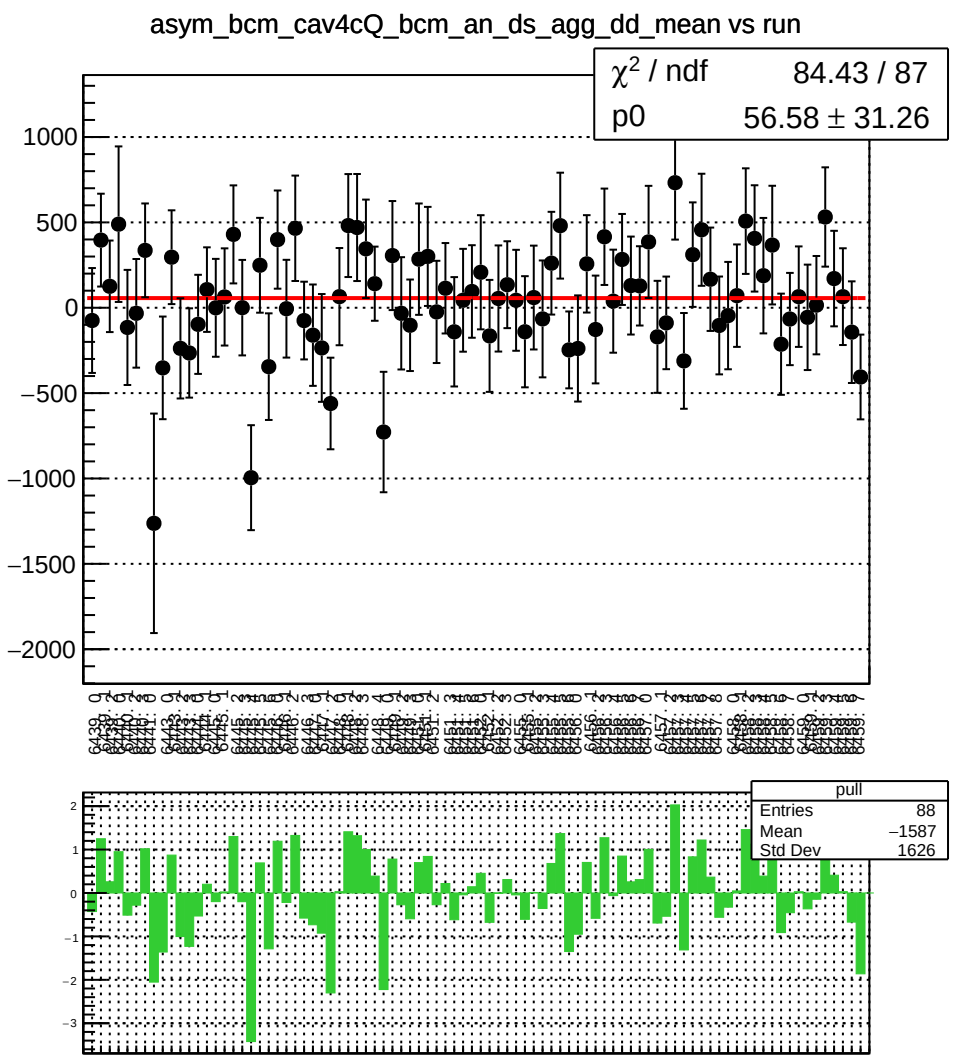

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 79 / 87
p0 58.46 ± 31.04
pull
Entries 88
Mean −263.4
Std Dev 298.8
pull1D
Entries 88
Mean −0.007569
Std Dev 0.9475

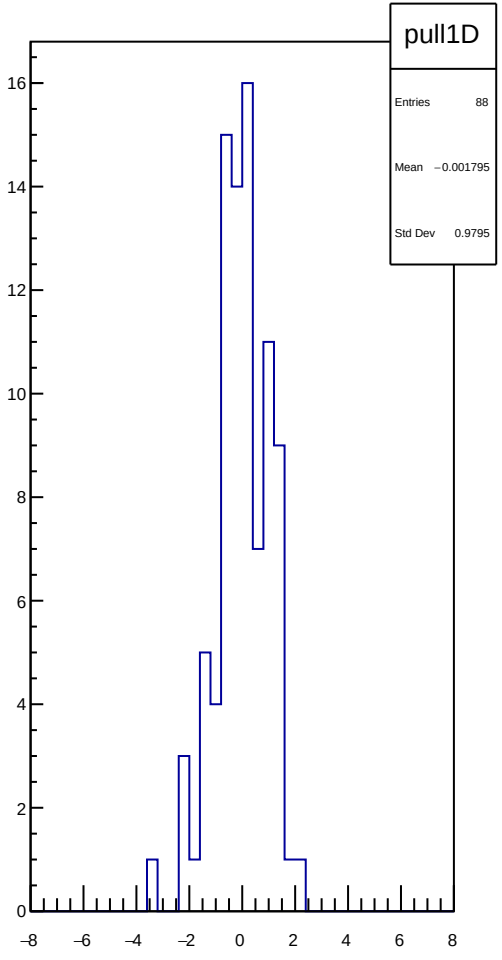

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 7638 / 87
p0 28.53 ± 0.02195
44
42
40
38
36
34
32
30
28
26
24

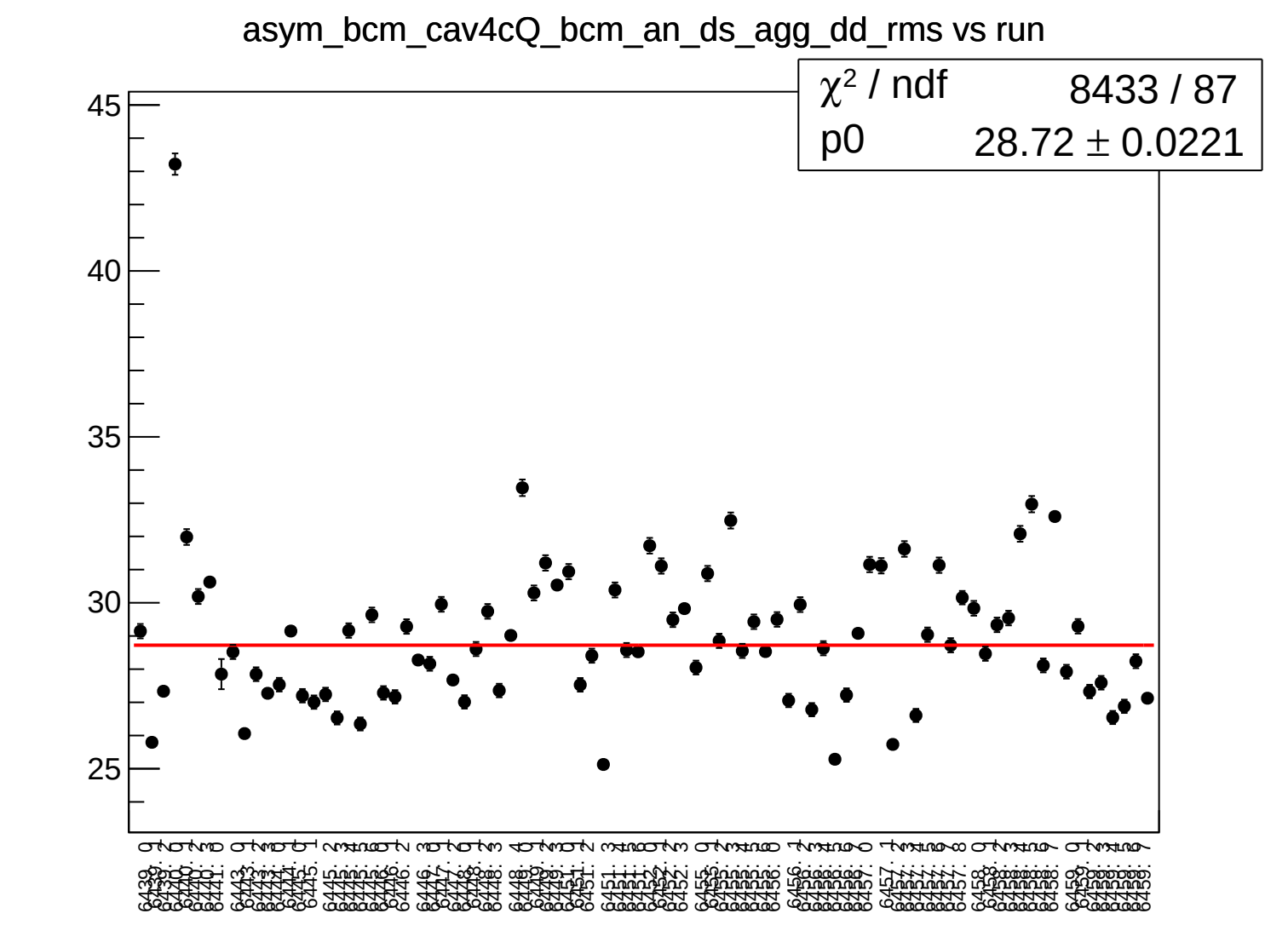

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 26.34 / 87
p0 −179.3 ± 226.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
pull
Entries 88
Mean 158.4
Std Dev 99.87
1.5
1
0.5
0
−0.5
−1
−1.5

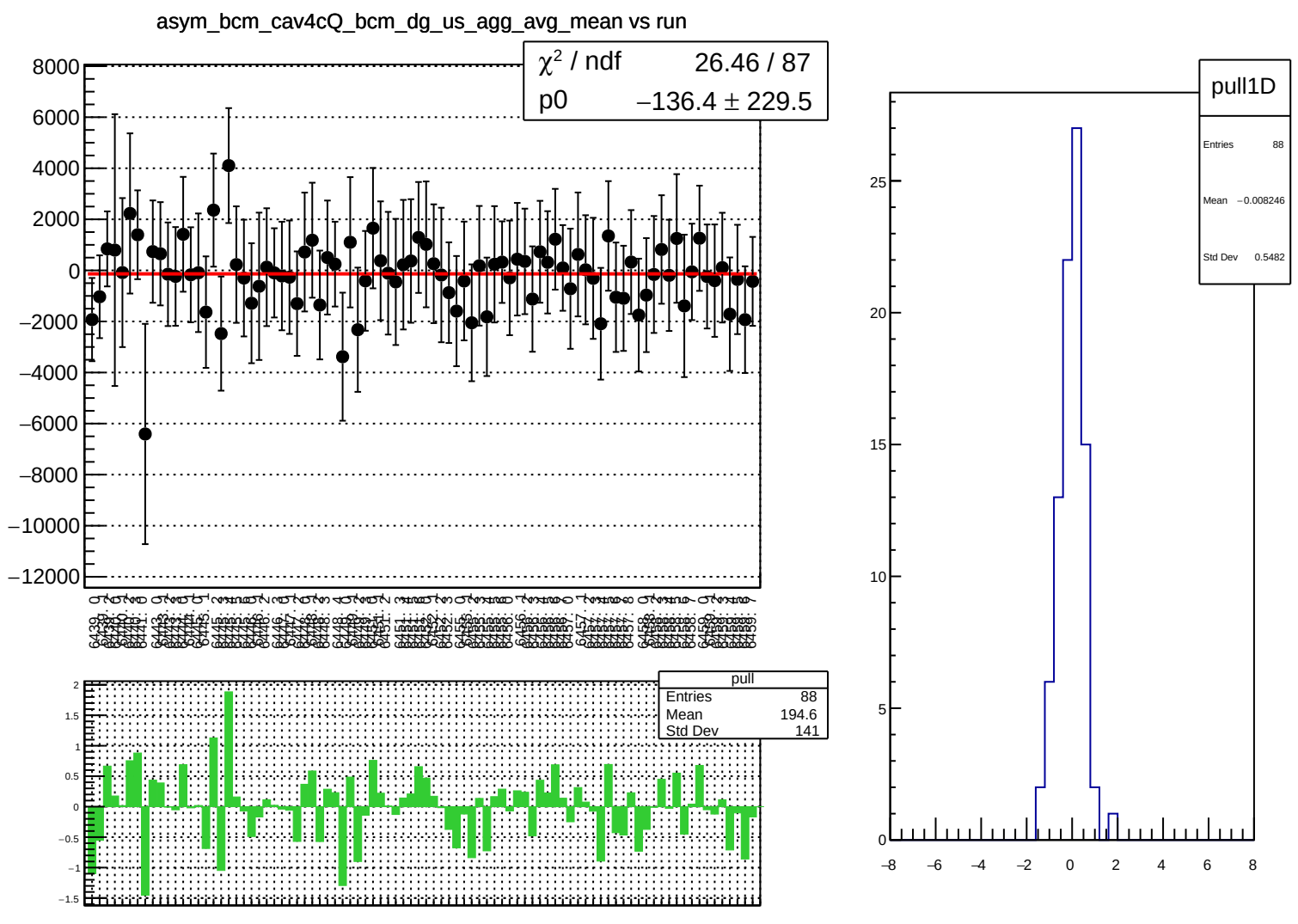

pull1D
Entries 88
Mean −0.007005
Std Dev 0.5471
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

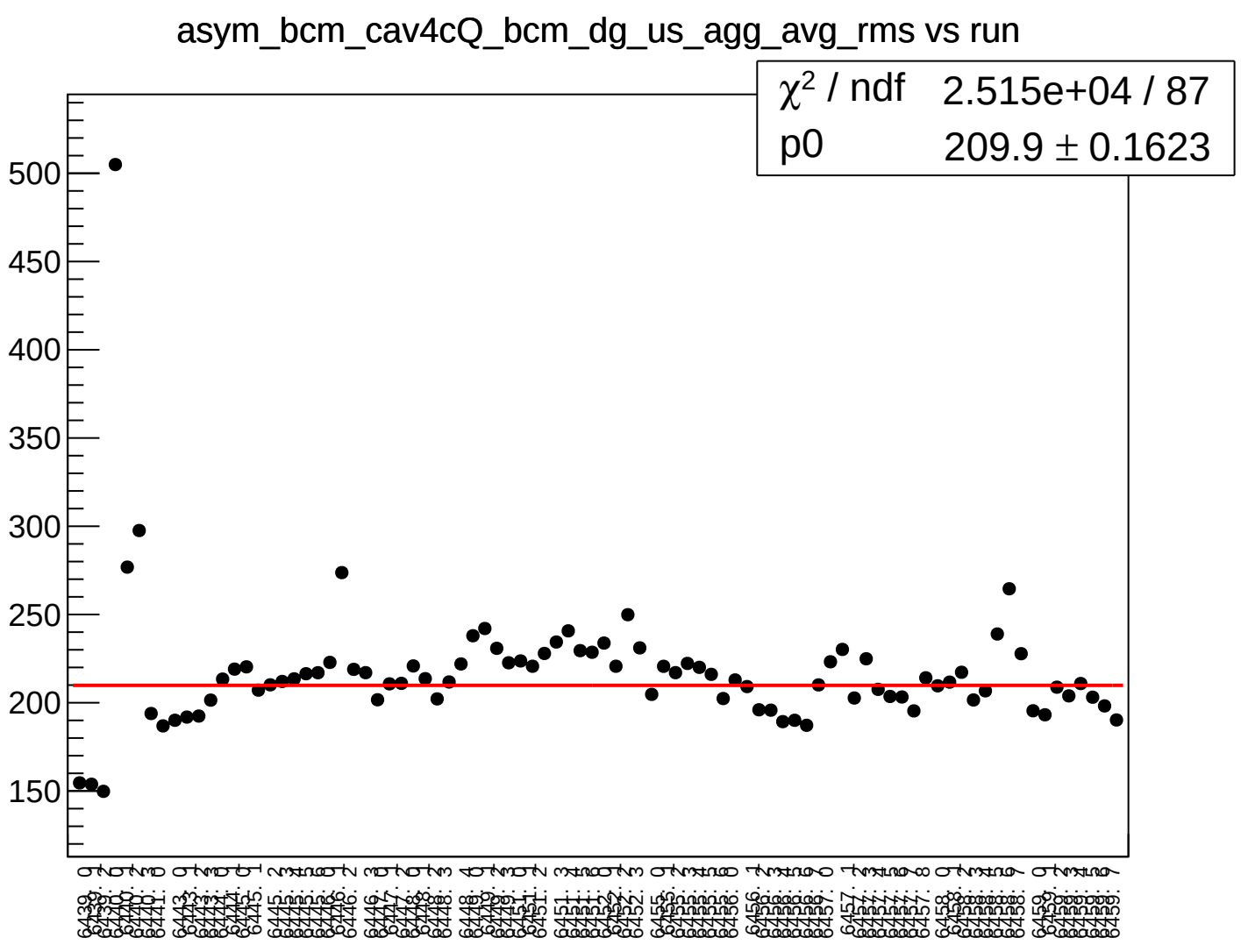

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.554e+04 / 87
p0 207 ± 0.1601
500
450
400
350
300
250
200
150

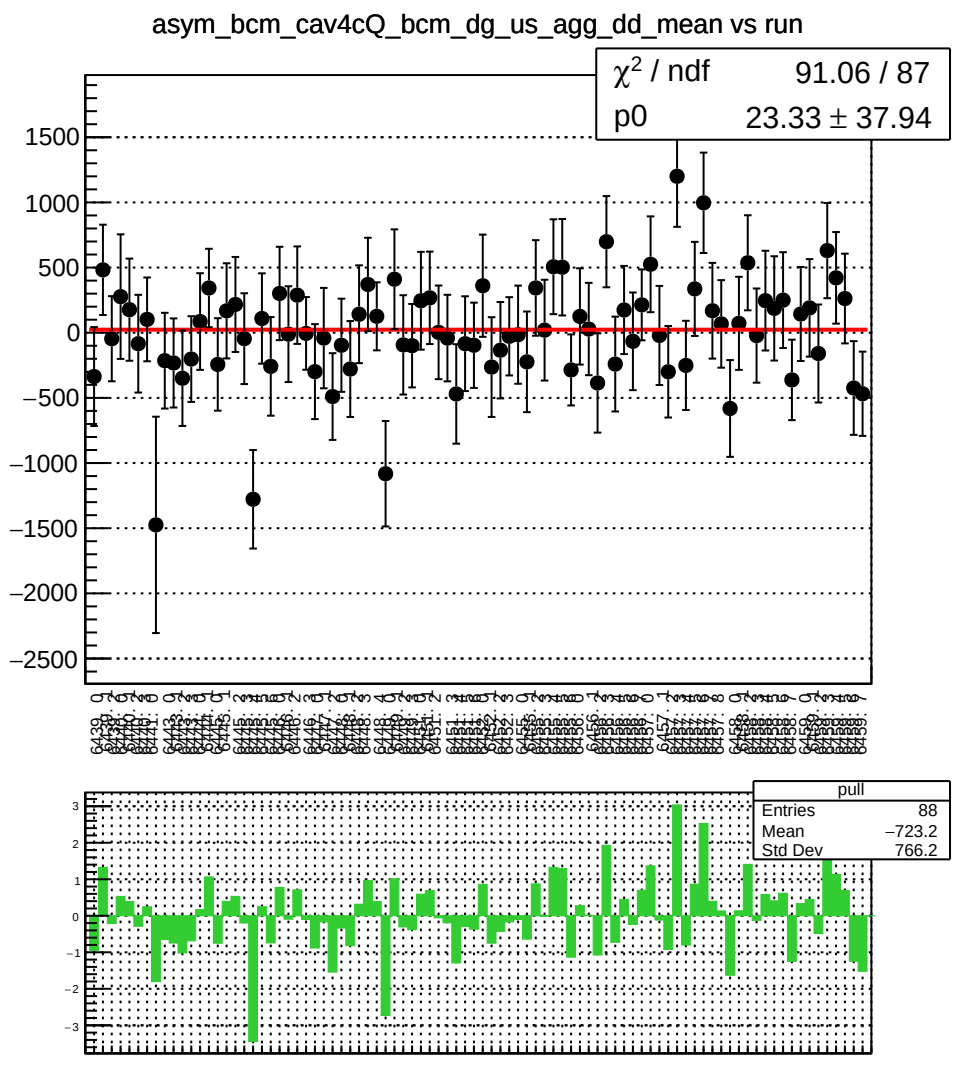

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 84.43 / 87
p0 56.58 ± 31.26
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 88
Mean −1587
Std Dev 1626
2
1
0
−1
−2
−3

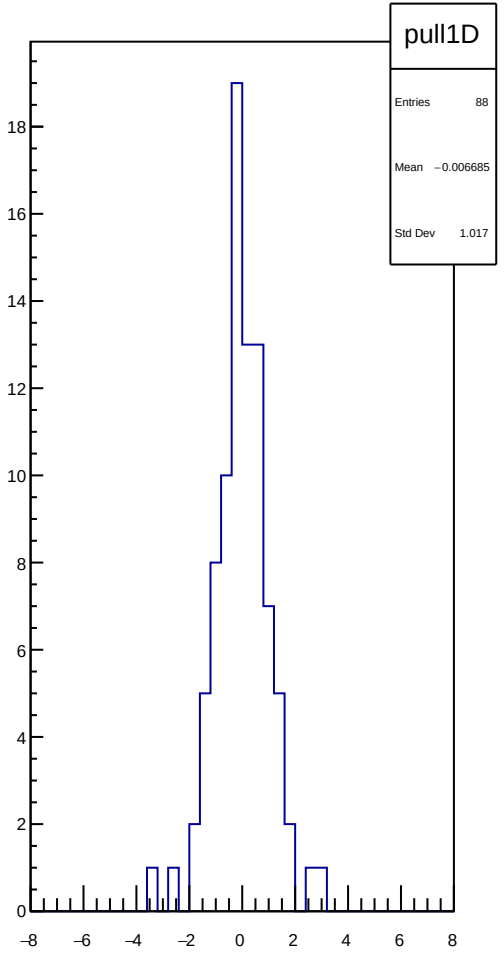

pull1D
Entries 88
Mean −0.001795
Std Dev 0.9795
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

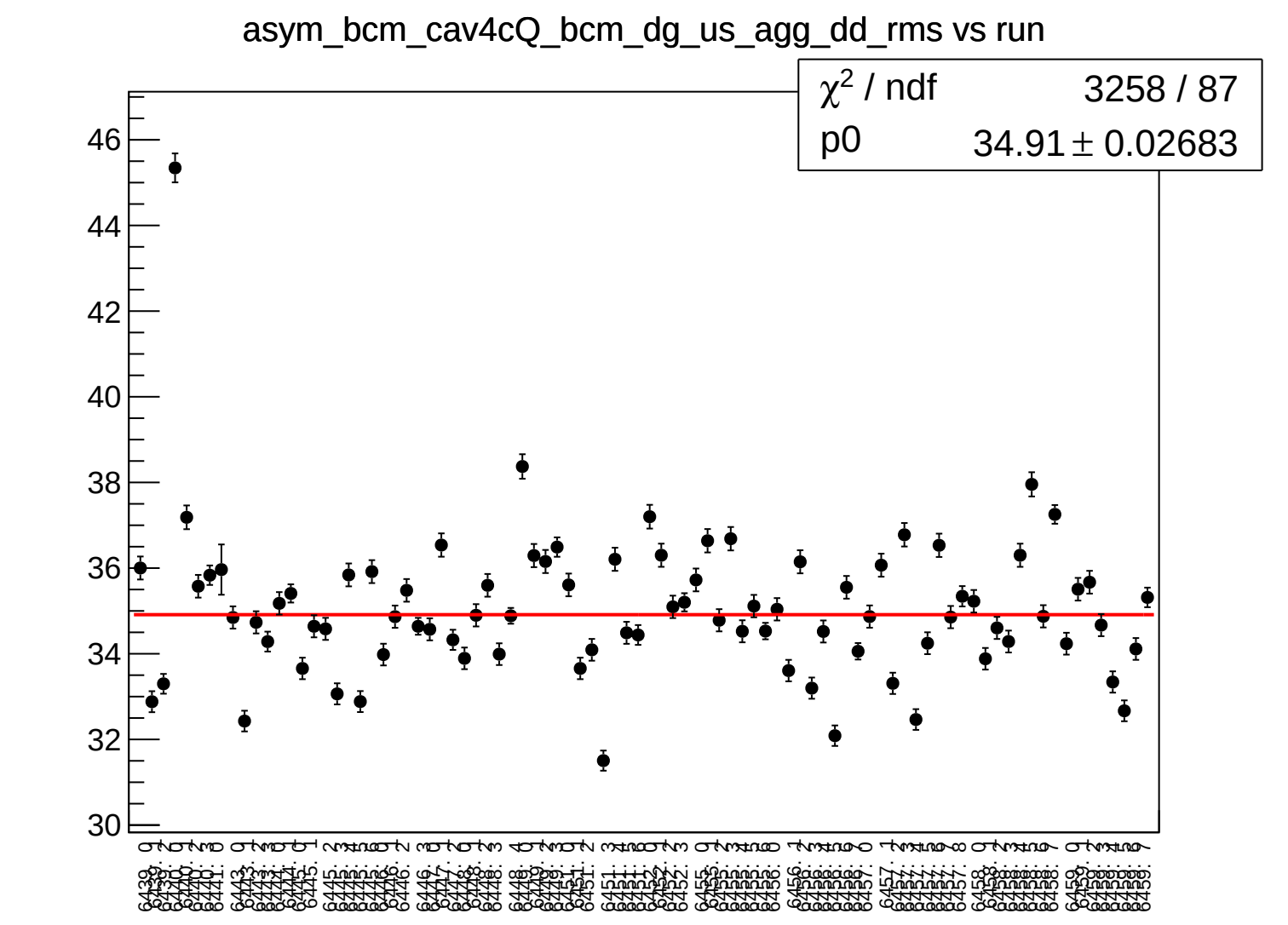

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 8433 / 87
p0 28.72 ± 0.0221
45
40
35
30
25

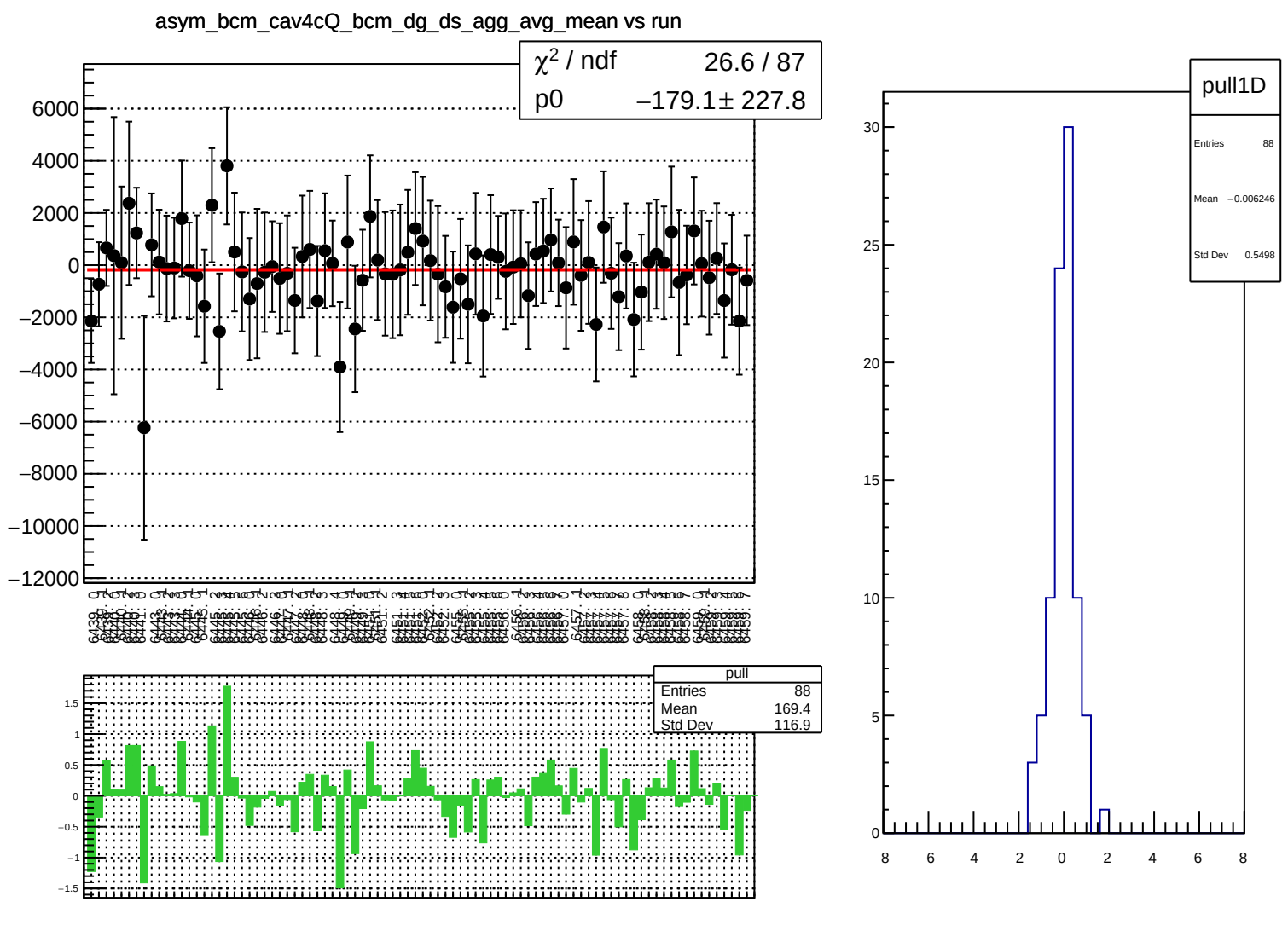

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 26.46 / 87
p0 −136.4 ± 229.5
pull
Entries 88
Mean 194.6
Std Dev 141
pull1D
Entries 88
Mean −0.008246
Std Dev 0.5482

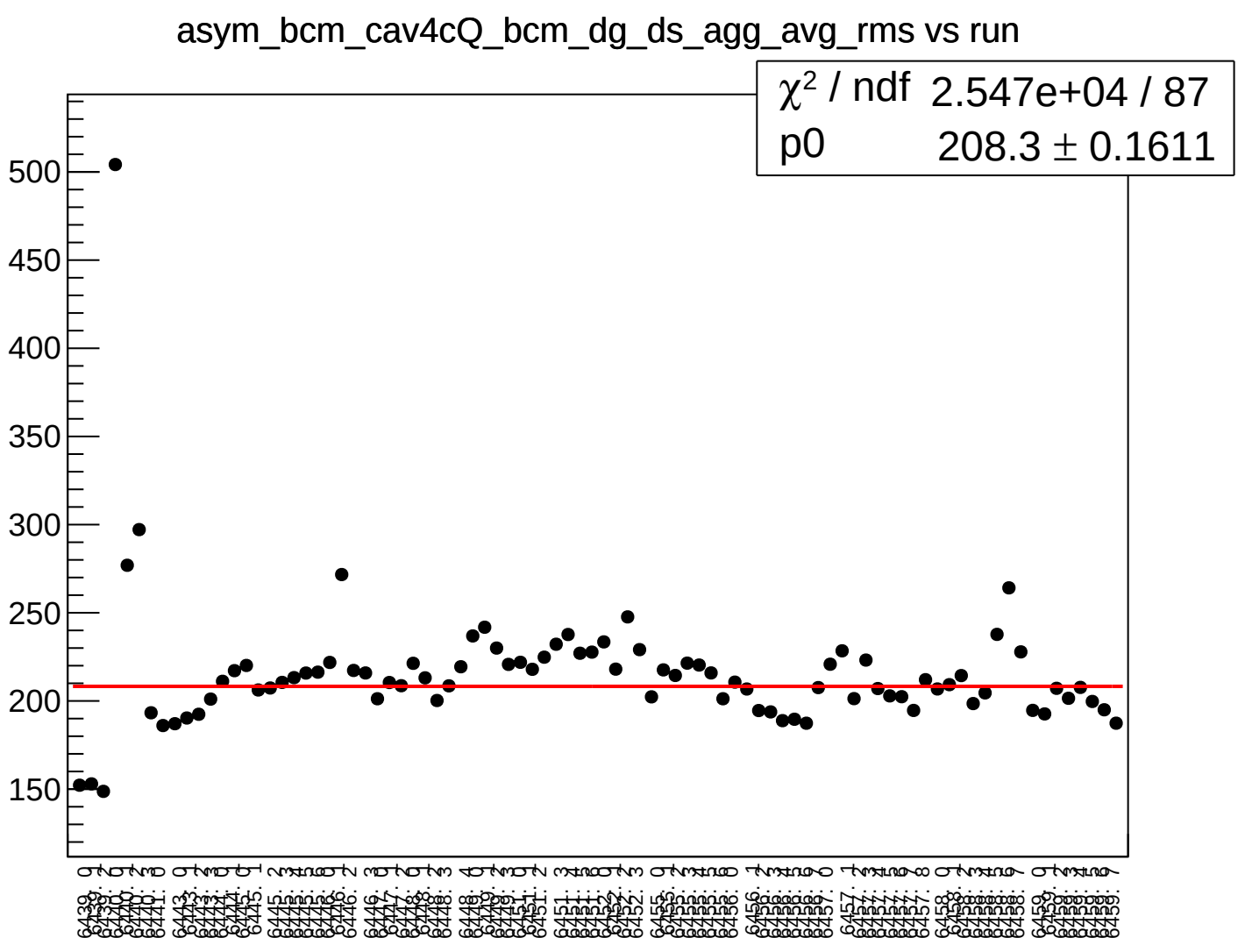

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2.515e+04 / 87
p0 209.9 ± 0.1623
500
450
400
350
300
250
200
150

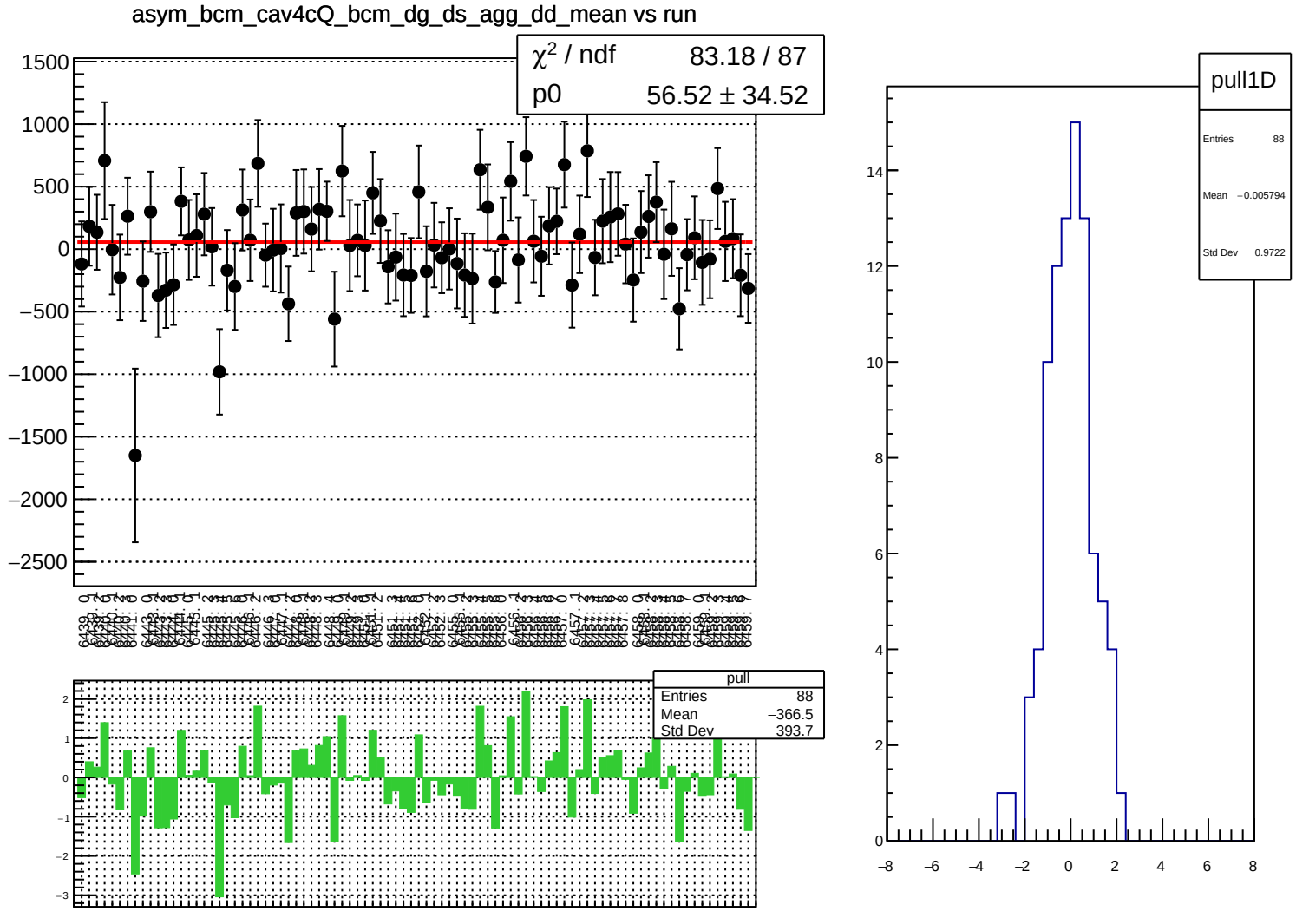

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ^2 / ndf 91.06 / 87
p0 23.33 ± 37.94
pull
Entries 88
Mean −723.2
Std Dev 766.2

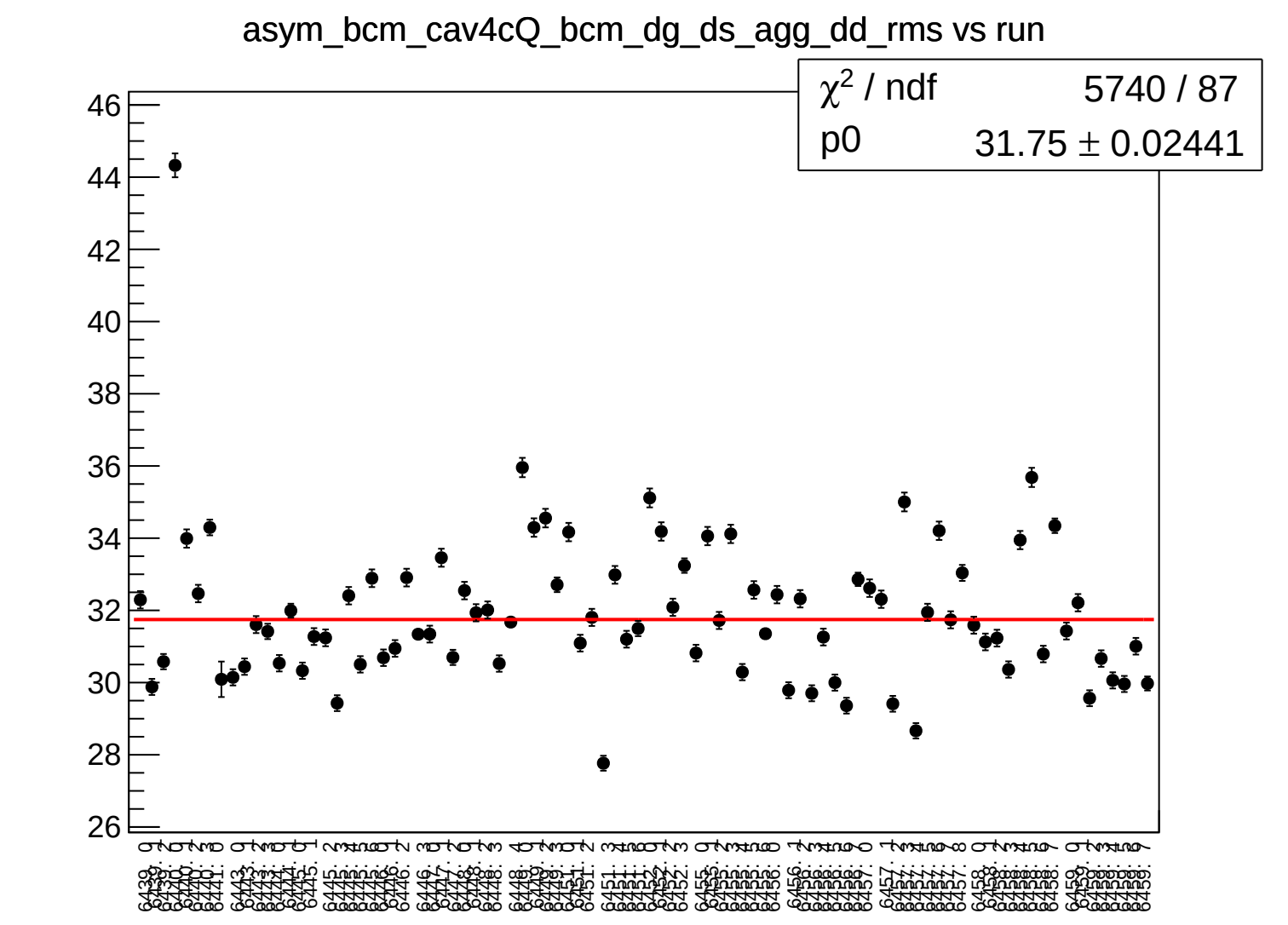

pull1D
Entries 88
Mean −0.006685
Std Dev 1.017

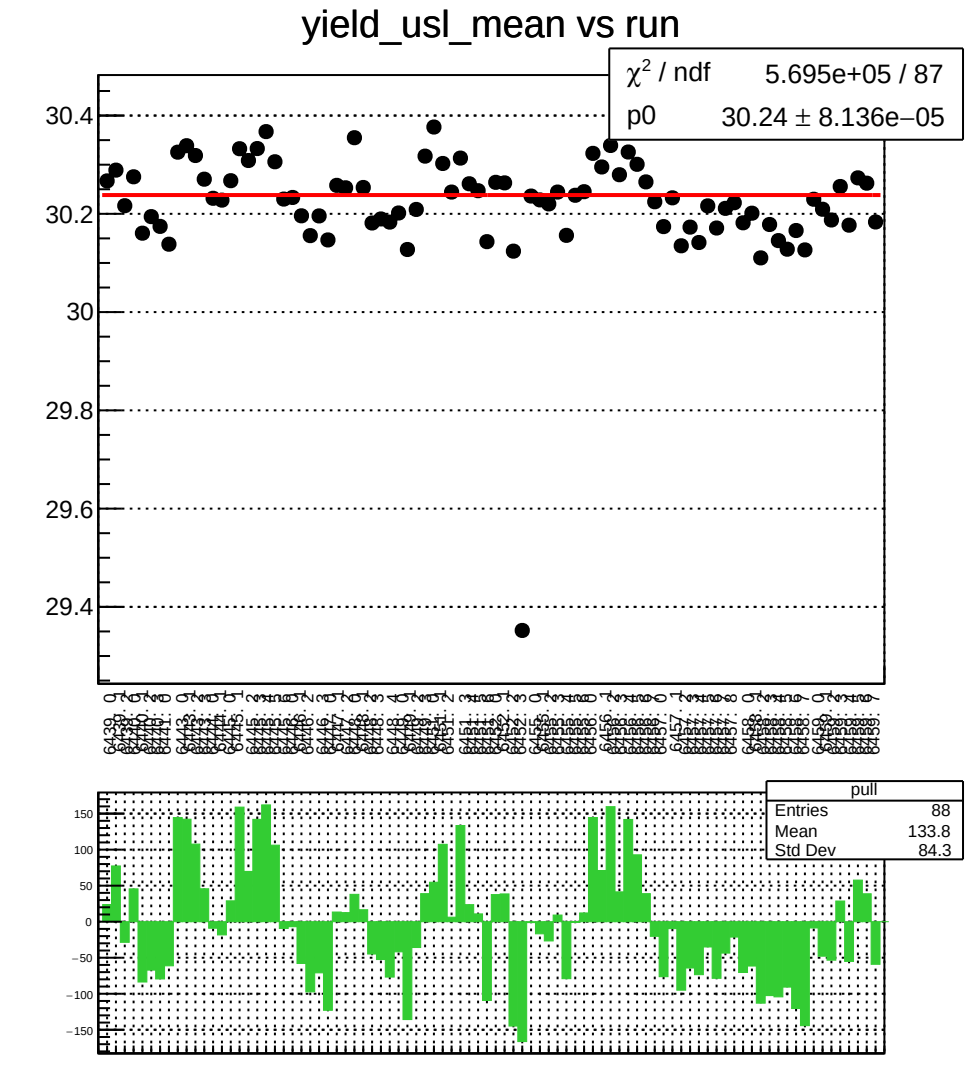

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3258 / 87
p0 34.91 ± 0.02683
46
44
42
40
38
36
34
32
30

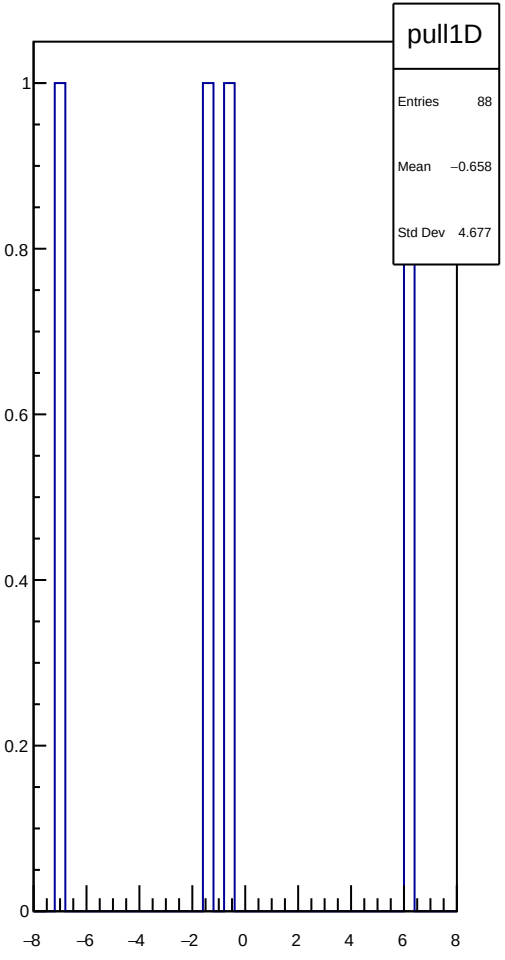

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 26.6 / 87
p0 −179.1± 227.8
pull
Entries 88
Mean 169.4
Std Dev 116.9
pull1D
Entries 88
Mean −0.006246
Std Dev 0.5498

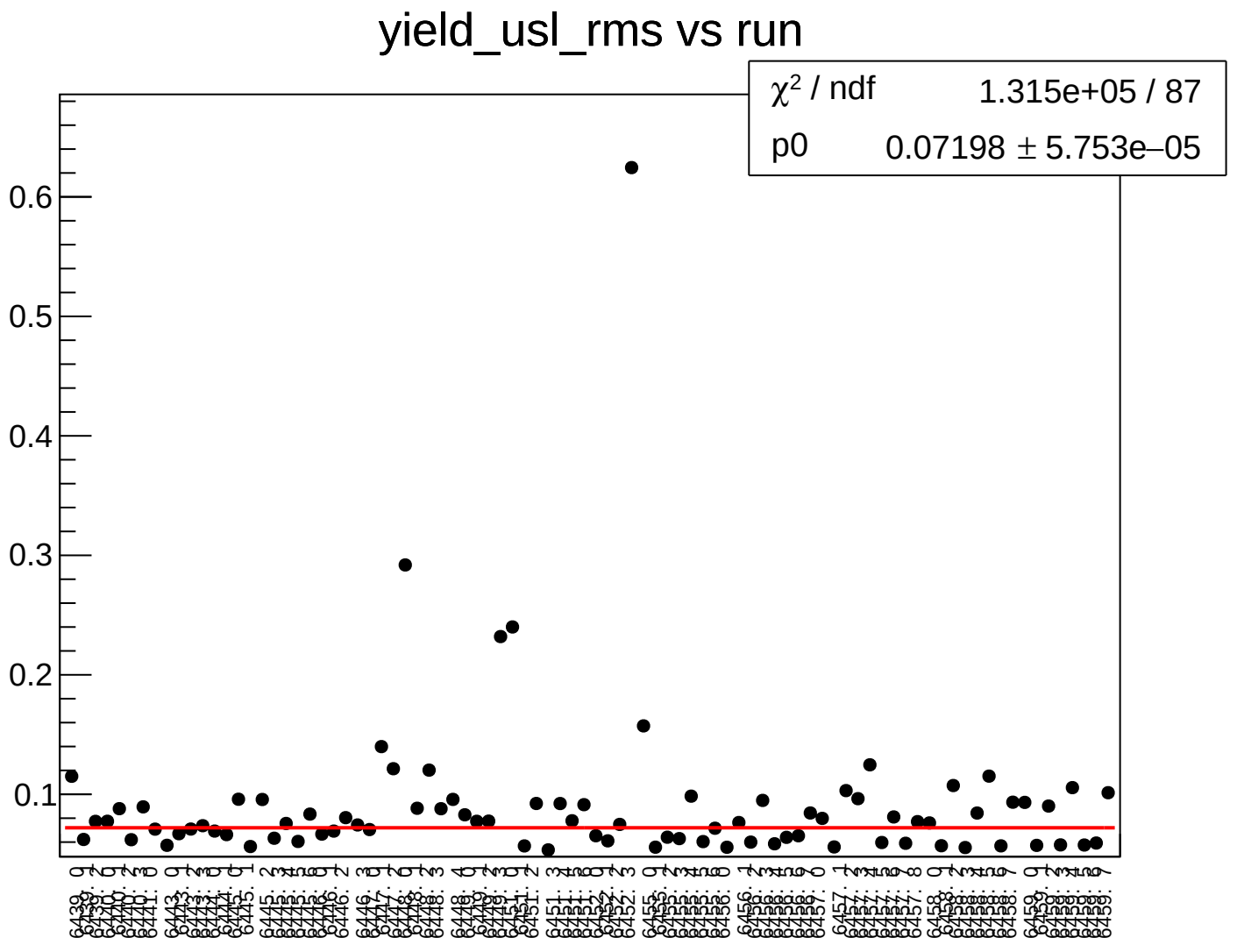

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.547e+04 / 87
p0 208.3 ± 0.1611
500
450
400
350
300
250
200
150

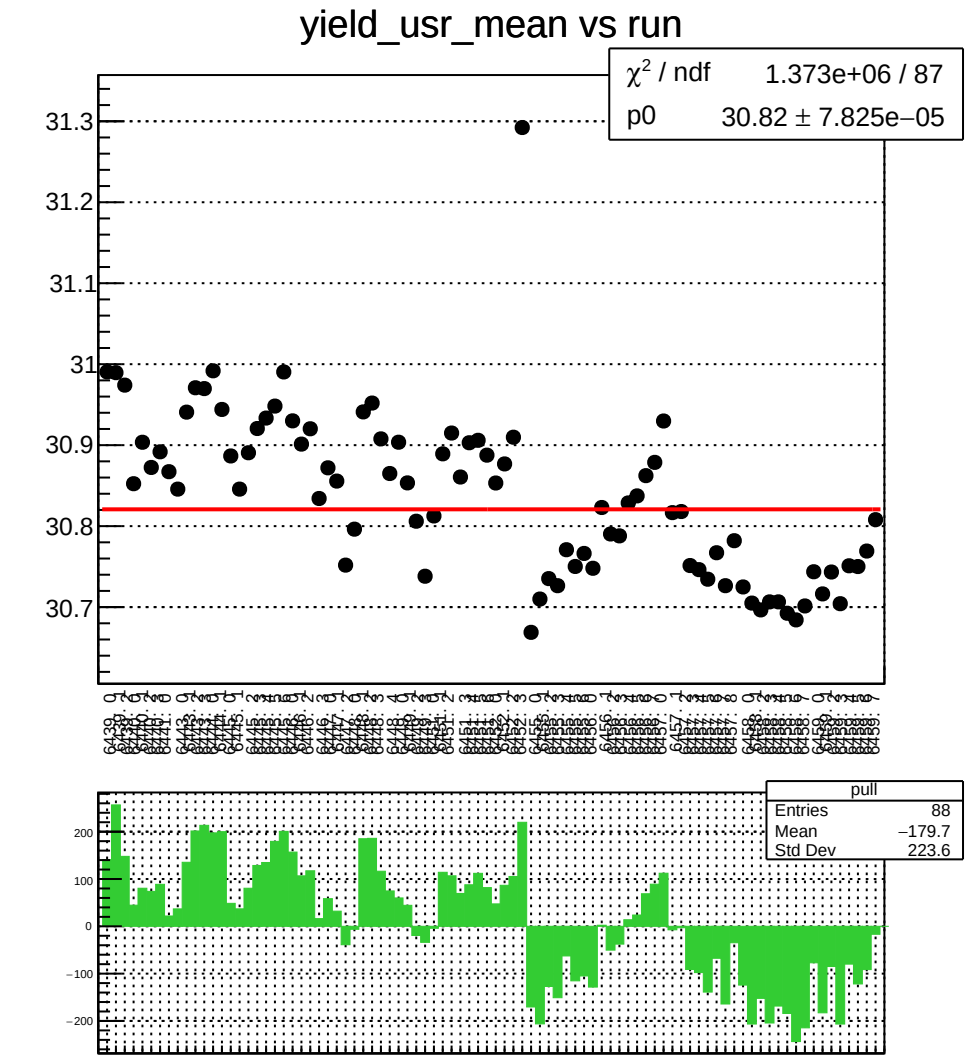

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 83.18 / 87
p0 56.52 ± 34.52
pull
Entries 88
Mean −366.5
Std Dev 393.7
pull1D
Entries 88
Mean −0.005794
Std Dev 0.9722

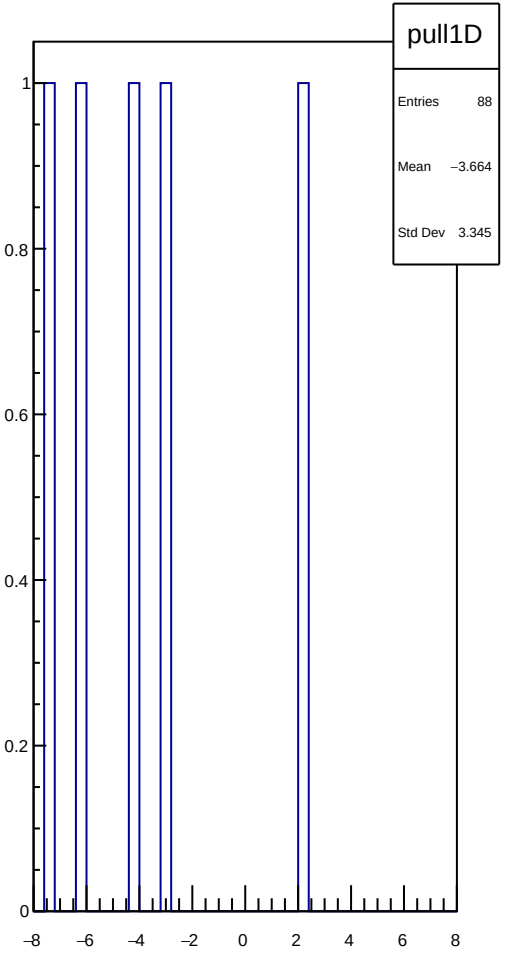

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ^2 / ndf 5740 / 87
p0 31.75 ± 0.02441
46
44
42
40
38
36
34
32
30
28
26

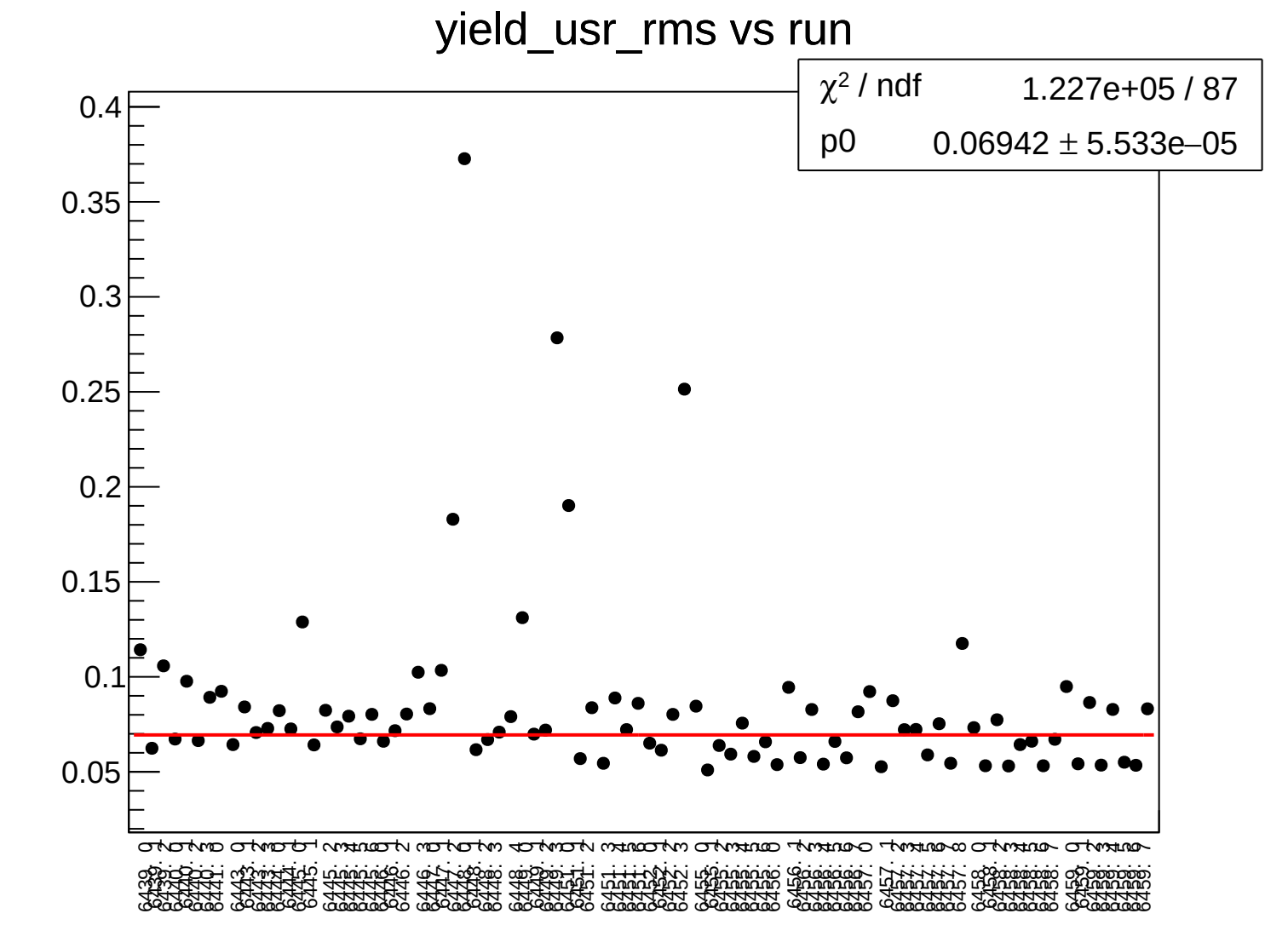

yield_usl_mean vs run
χ² / ndf 5.695e+05 / 87
p0 30.24 ± 8.136e−05
30.4
30.2
30
29.8
29.6
29.4
pull
Entries 88
Mean 133.8
Std Dev 84.3
150
100
50
0
−50
−100
−150

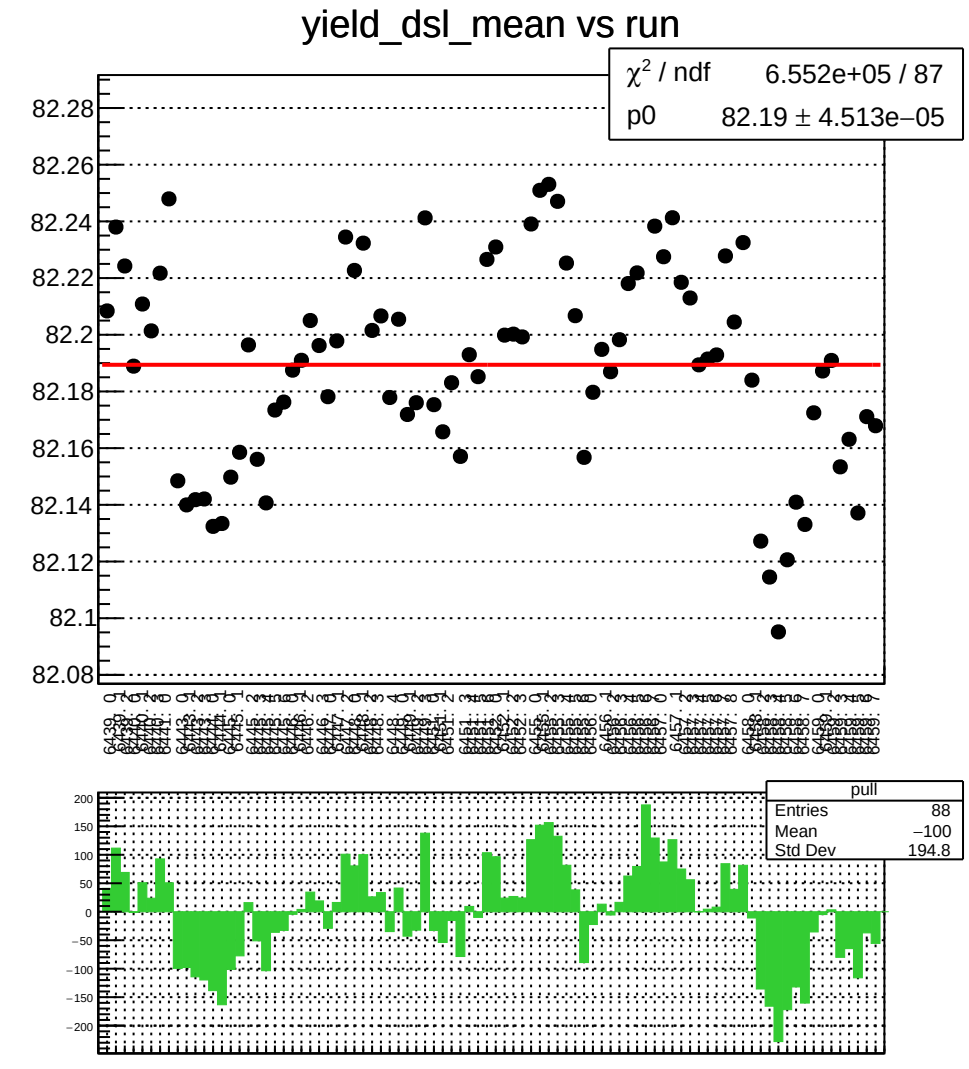

pull1D
Entries 88
Mean −0.658
Std Dev 4.677
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

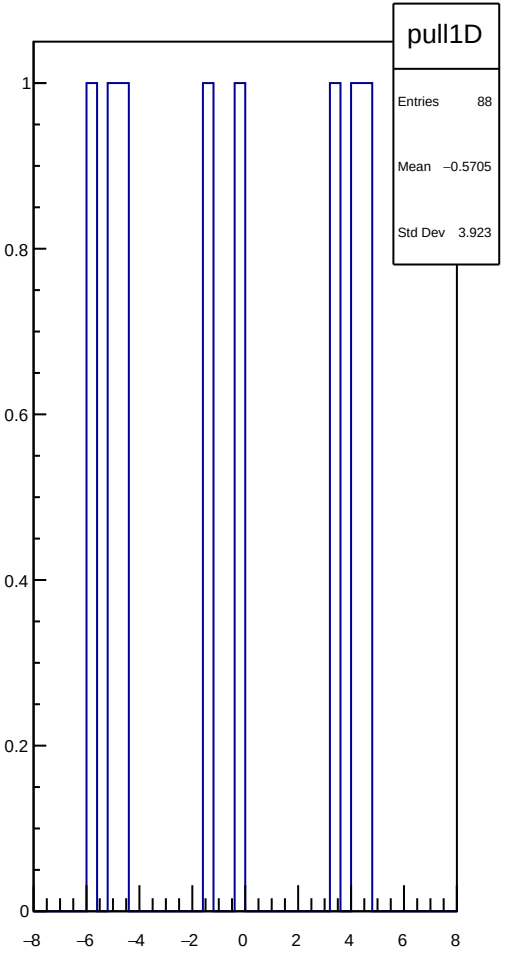

yield_usl_rms vs run
χ² / ndf 1.315e+05 / 87
p0 0.07198 ± 5.753e–05
0.6
0.5
0.4
0.3
0.2
0.1

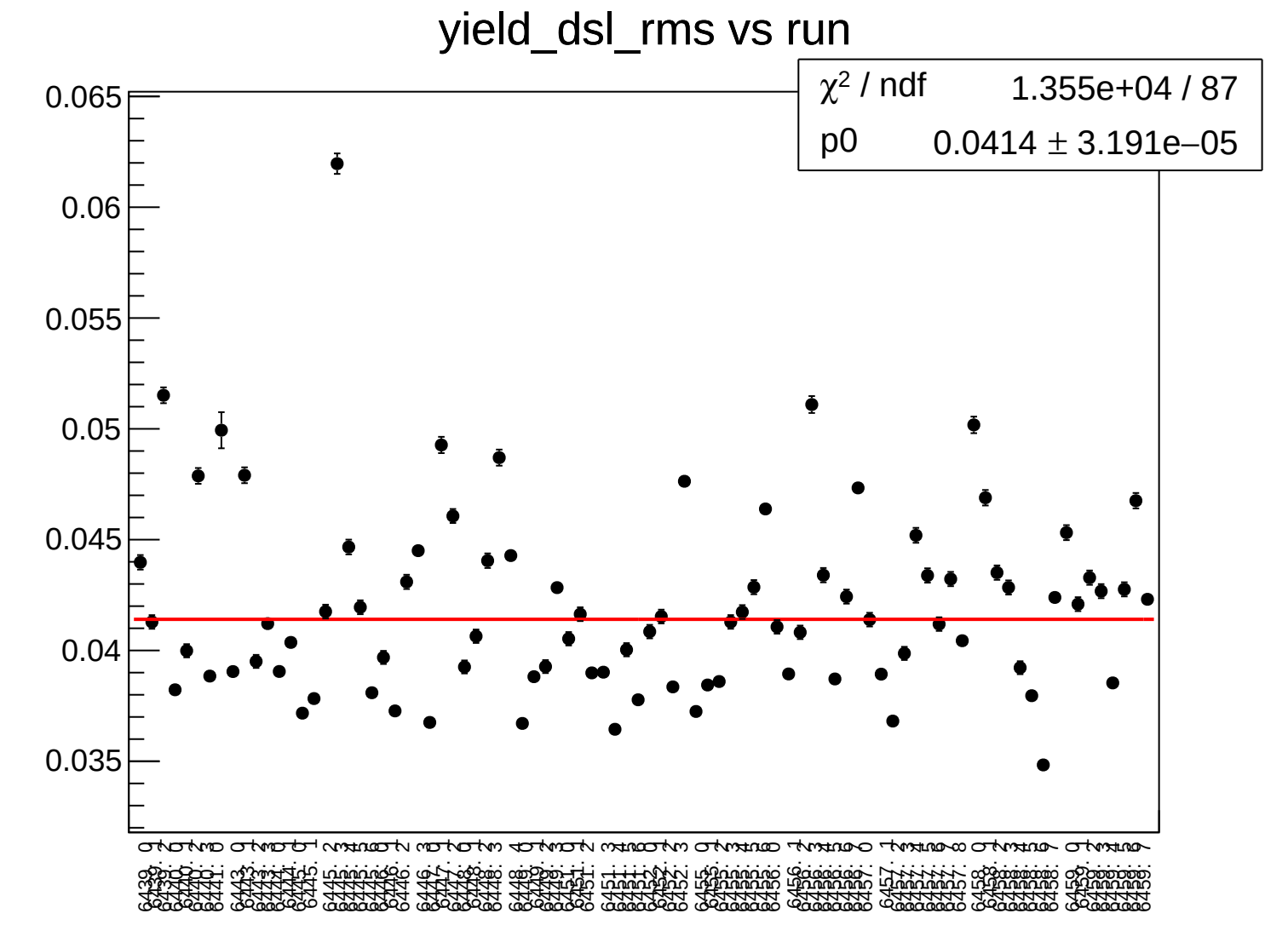

yield_usr_mean vs run
χ² / ndf 1.373e+06 / 87
p0 30.82 ± 7.825e−05
31.3
31.2
31.1
31
30.9
30.8
30.7
pull
Entries 88
Mean −179.7
Std Dev 223.6
200
100
0
−100
−200

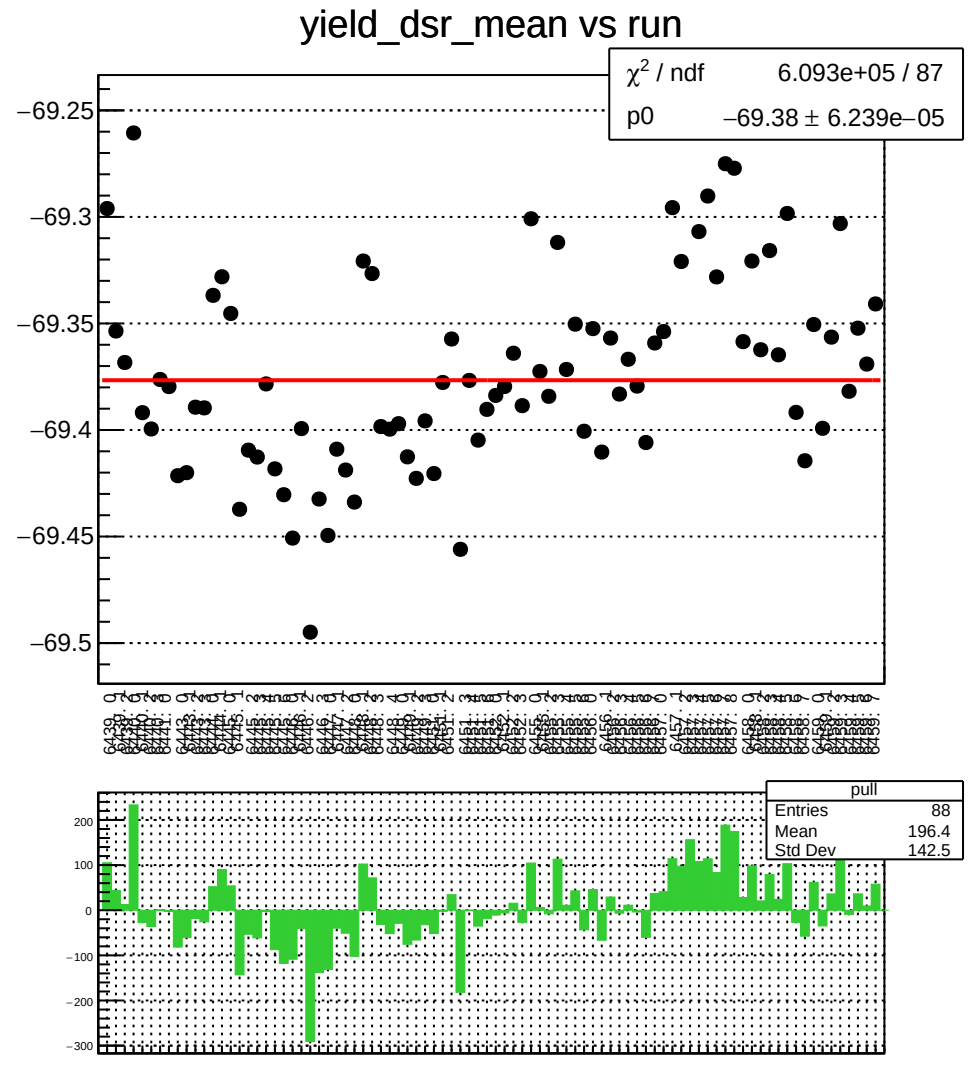

pull1D
Entries 88
Mean −3.664
Std Dev 3.345
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

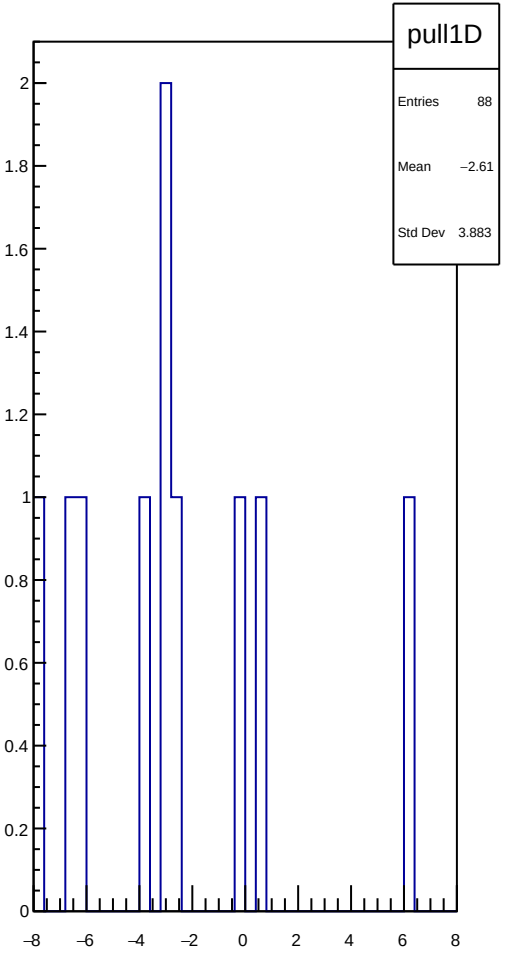

yield_usr_rms vs run
χ² / ndf 1.227e+05 / 87
p0 0.06942 ± 5.533e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

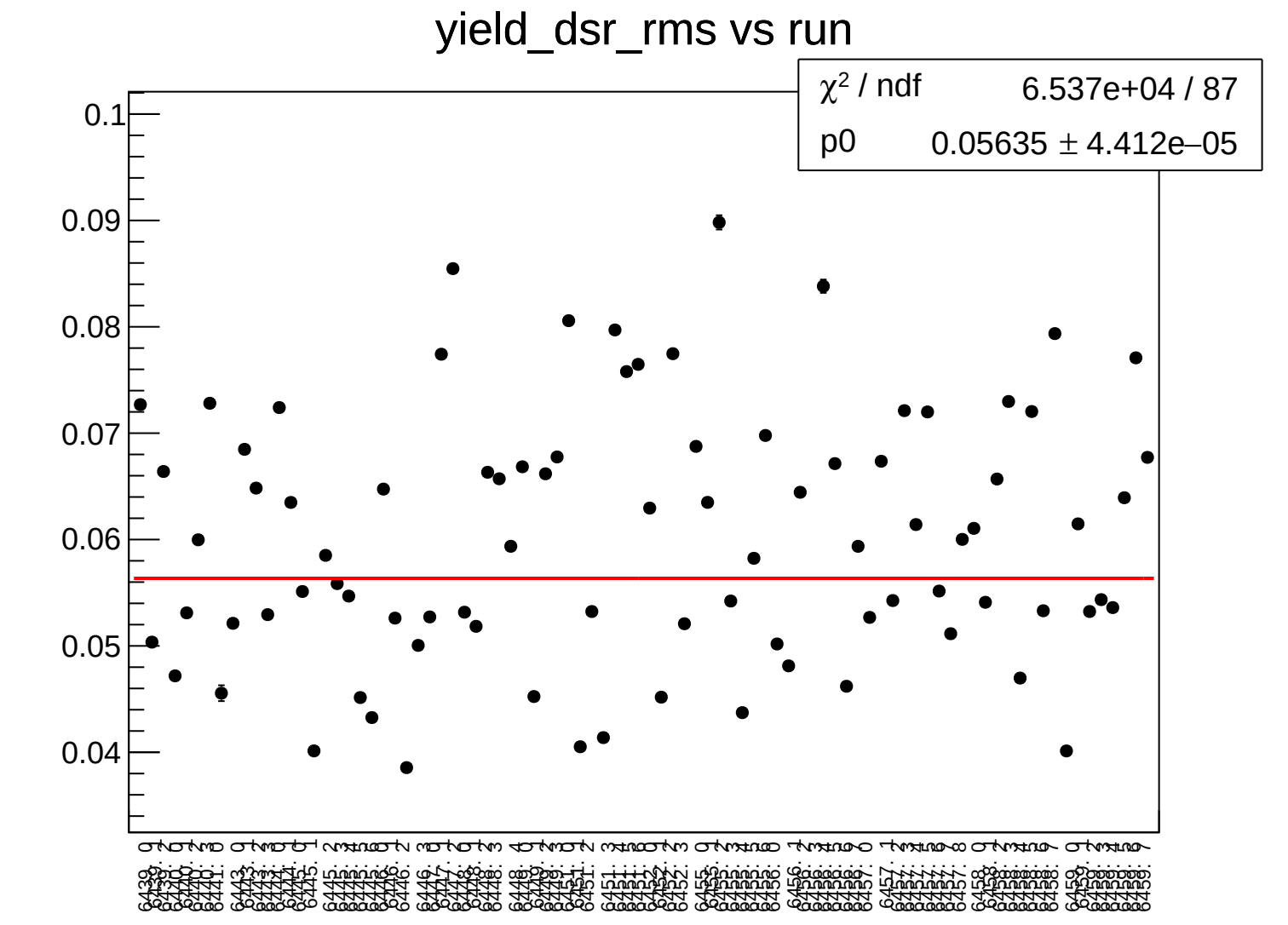

yield_dsl_mean vs run
χ² / ndf 6.552e+05 / 87
p0 82.19 ± 4.513e−05
82.28
82.26
82.24
82.22
82.2
82.18
82.16
82.14
82.12
82.1
82.08
pull
Entries 88
Mean −100
Std Dev 194.8
200
150
100
50
0
−50
−100
−150
−200

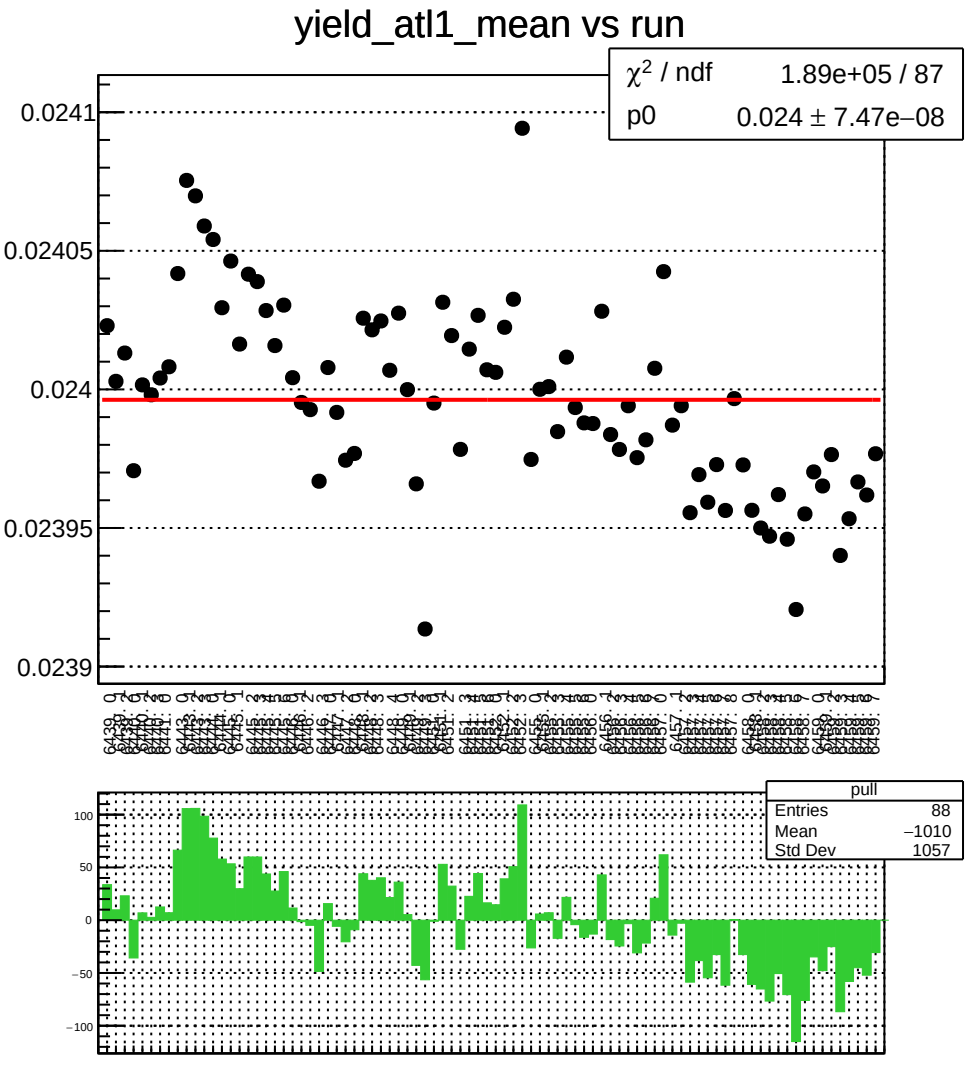

pull1D
Entries 88
Mean −0.5705
Std Dev 3.923
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

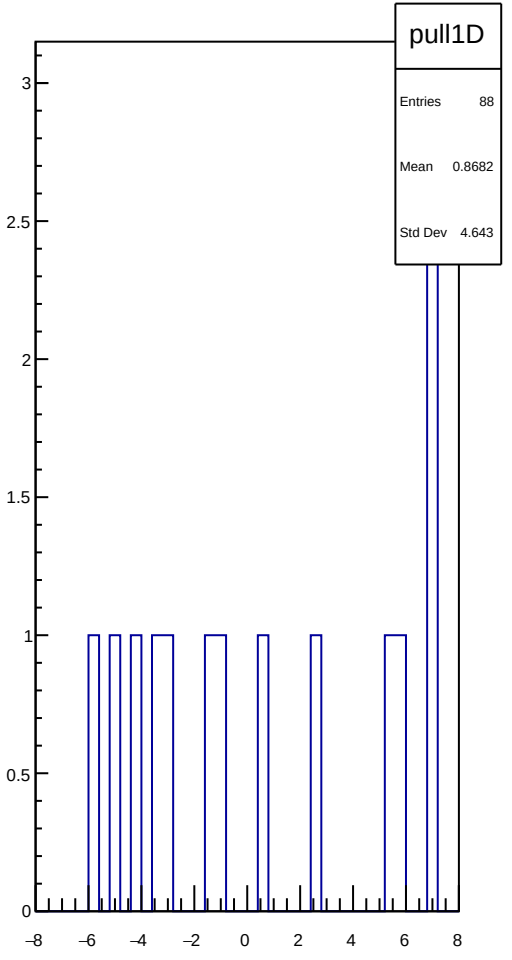

yield_dsl_rms vs run
χ² / ndf 1.355e+04 / 87
p0 0.0414 ± 3.191e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035

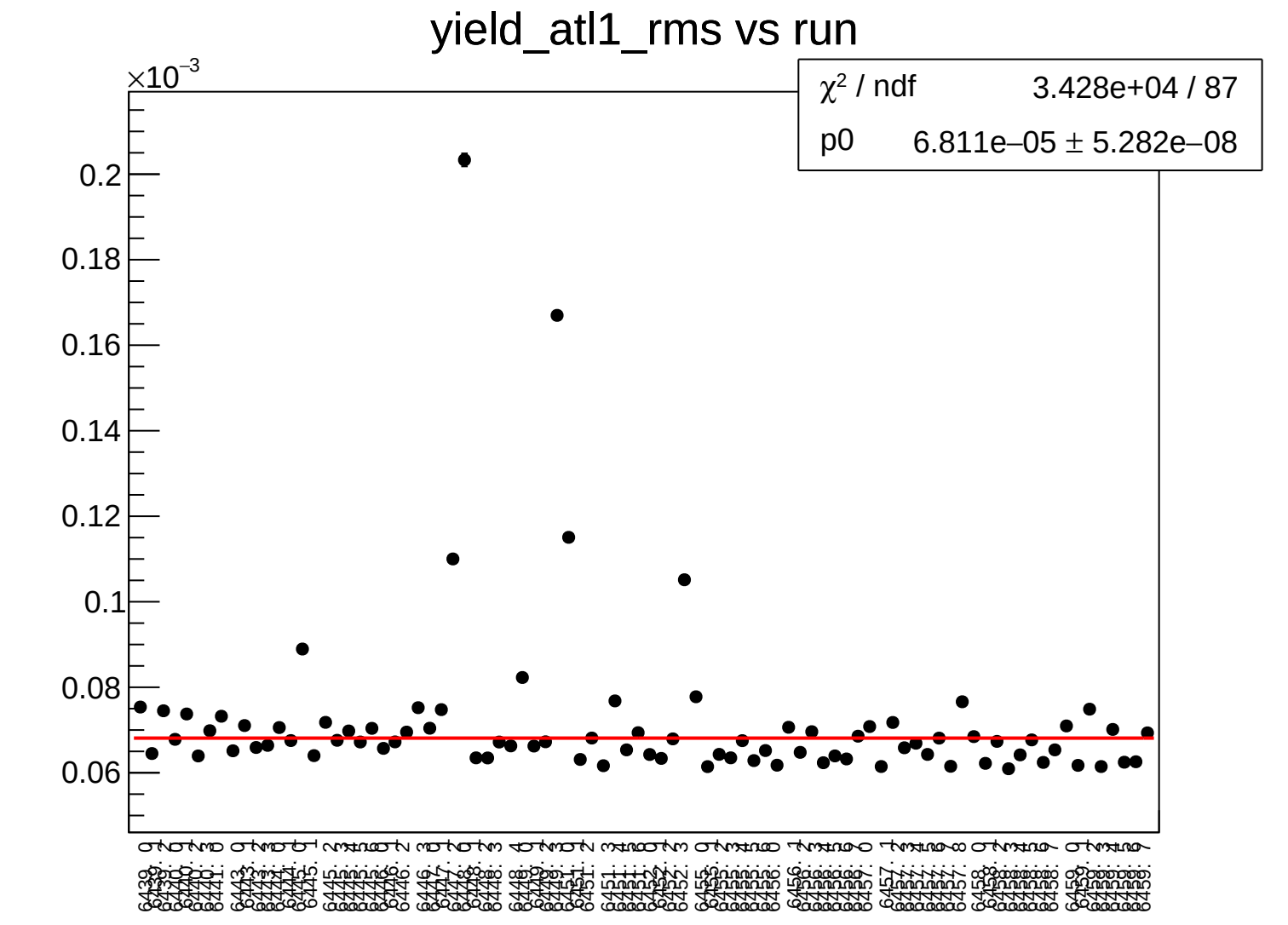

yield_dsr_mean vs run
χ² / ndf 6.093e+05 / 87
p0 −69.38 ± 6.239e−05
−69.25
−69.3
−69.35
−69.4
−69.45
−69.5
pull
Entries 88
Mean 196.4
Std Dev 142.5
200
100
0
−100
−200
−300

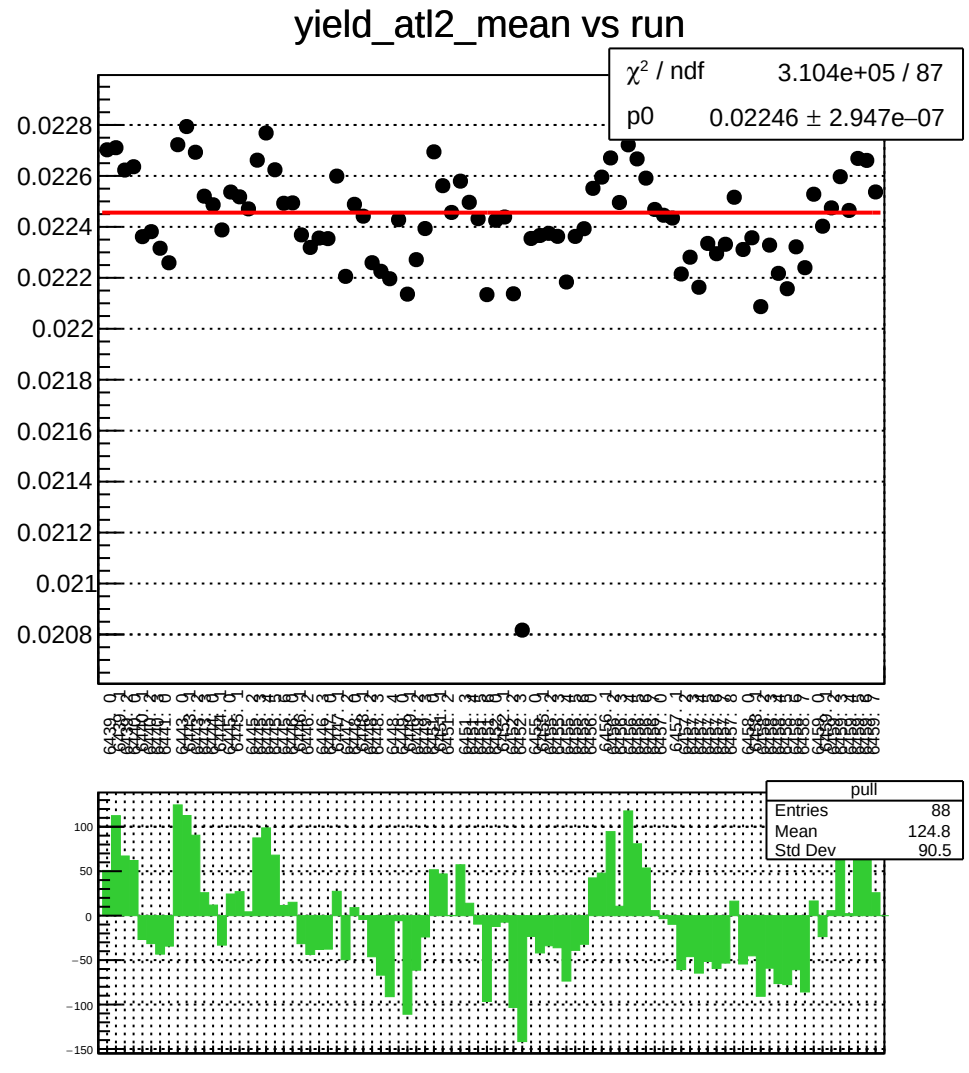

pull1D
Entries 88
Mean −2.61
Std Dev 3.883
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

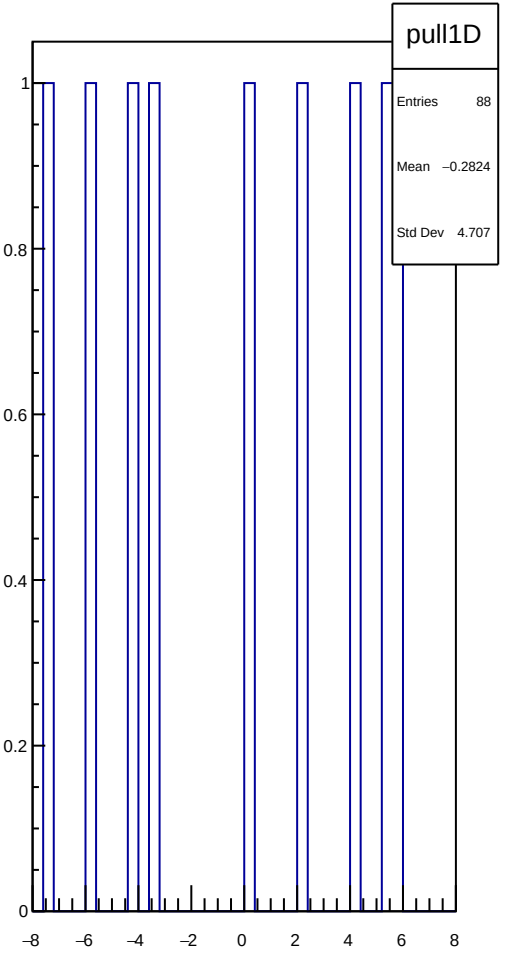

yield_dsr_rms vs run
χ² / ndf 6.537e+04 / 87
p0 0.05635 ± 4.412e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

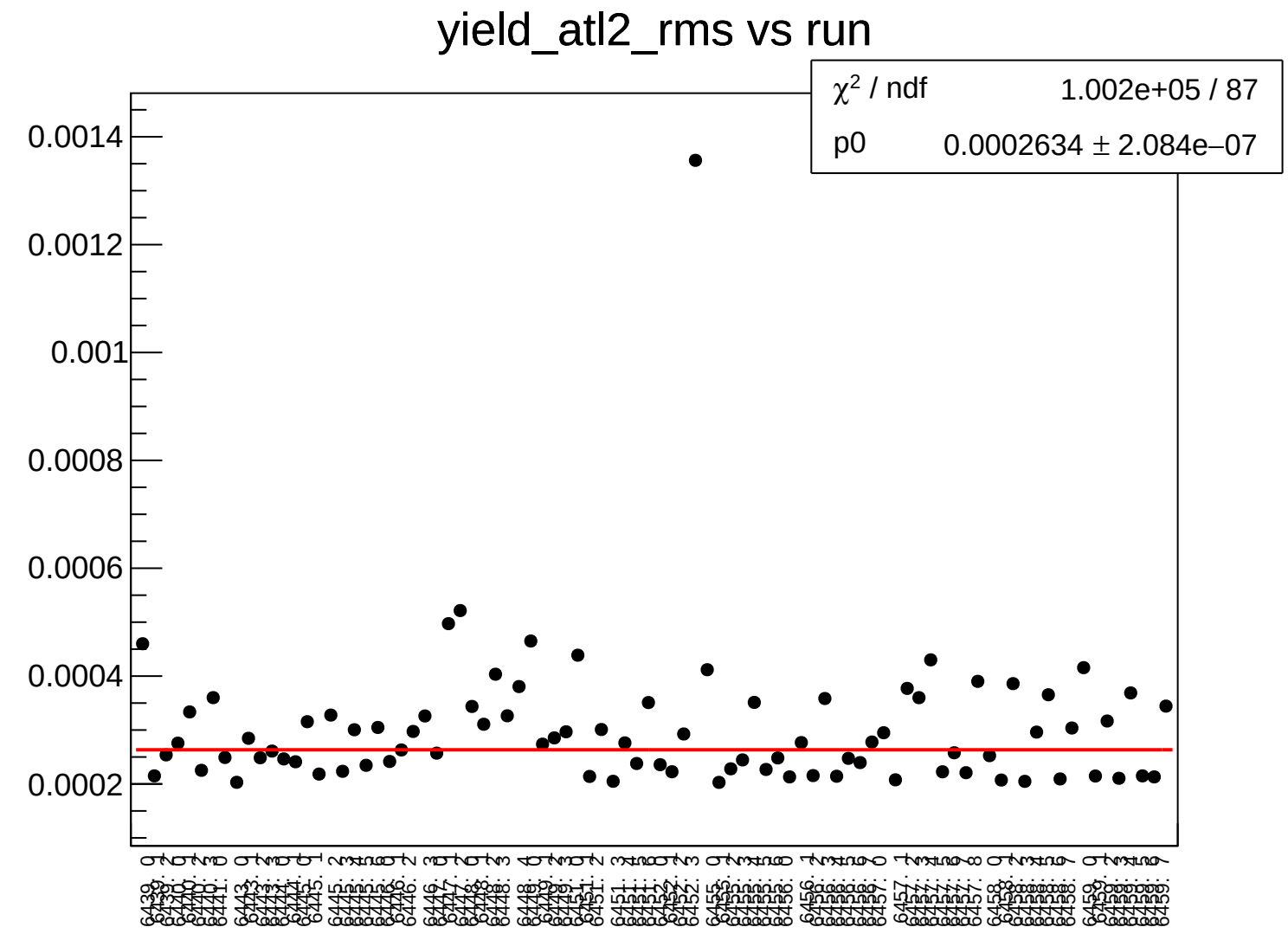

yield_atl1_mean vs run
χ² / ndf 1.89e+05 / 87
p0 0.024 ± 7.47e−08
0.0241
0.02405
0.024
0.02395
0.0239
pull
Entries 88
Mean −1010
Std Dev 1057
100
50
0
−50
−100

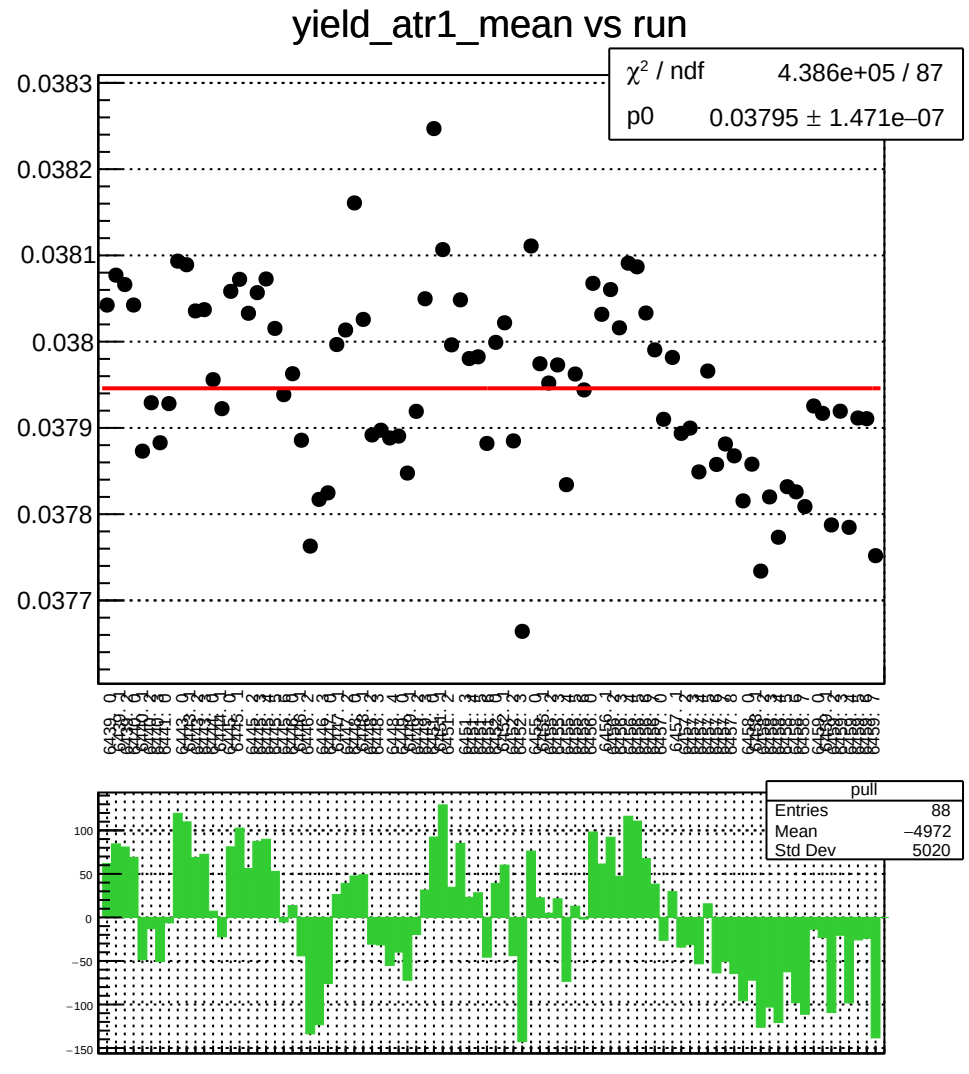

pull1D
Entries 88
Mean 0.8682
Std Dev 4.643
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

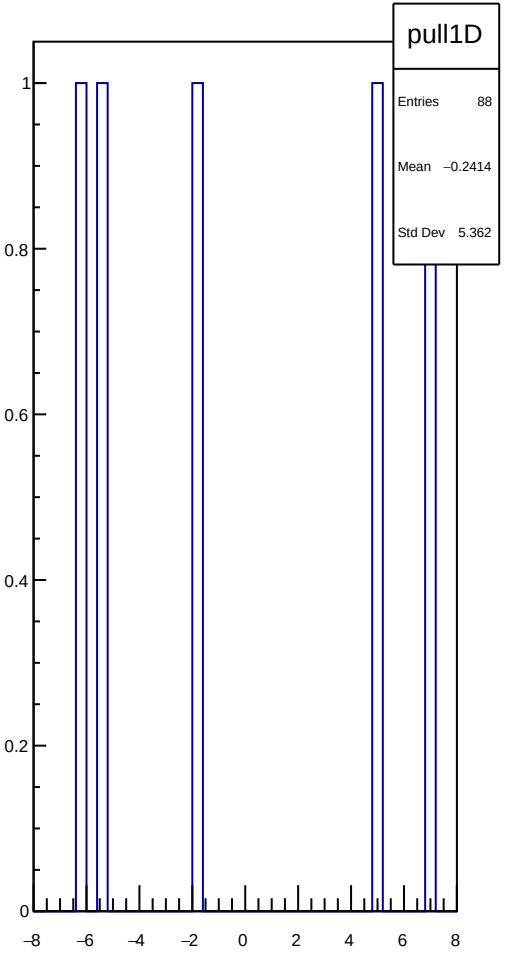

yield_atl1_rms vs run
×10⁻³
χ² / ndf 3.428e+04 / 87
p0 6.811e−05 ± 5.282e−08
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

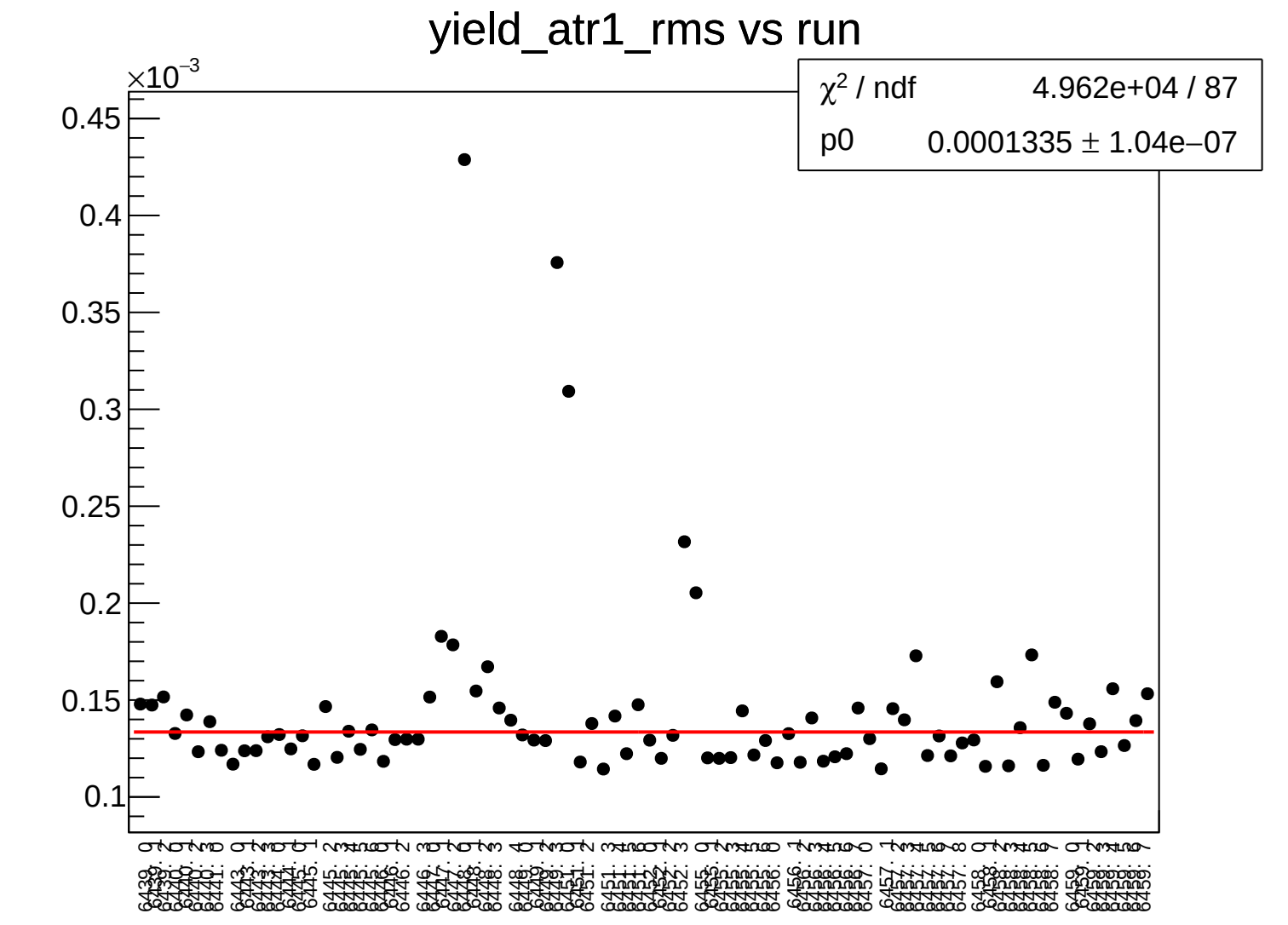

yield_atl2_mean vs run
χ² / ndf 3.104e+05 / 87
p0 0.02246 ± 2.947e−07
0.0228
0.0226
0.0224
0.0222
0.022
0.0218
0.0216
0.0214
0.0212
0.021
0.0208
pull
Entries 88
Mean 124.8
Std Dev 90.5
100
50
0
−50
−100
−150

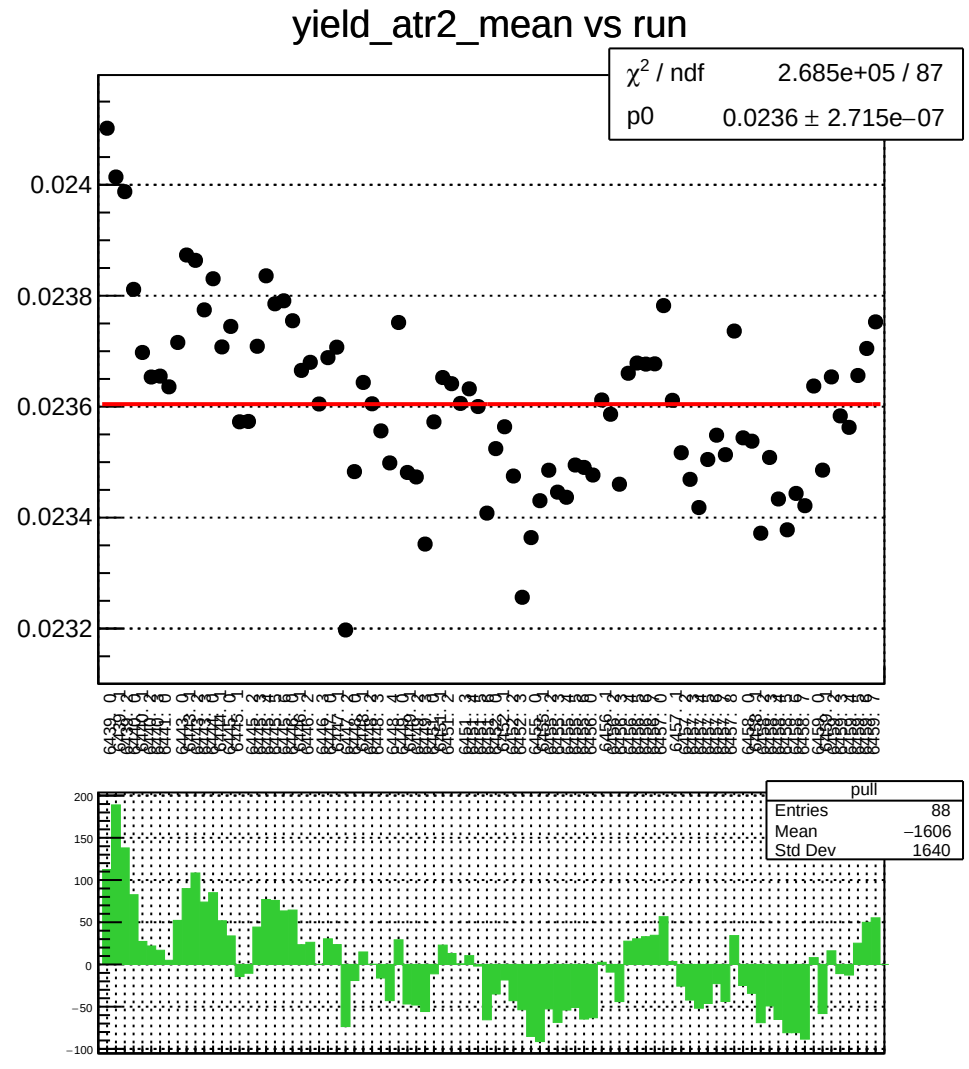

pull1D
Entries 88
Mean −0.2824
Std Dev 4.707
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

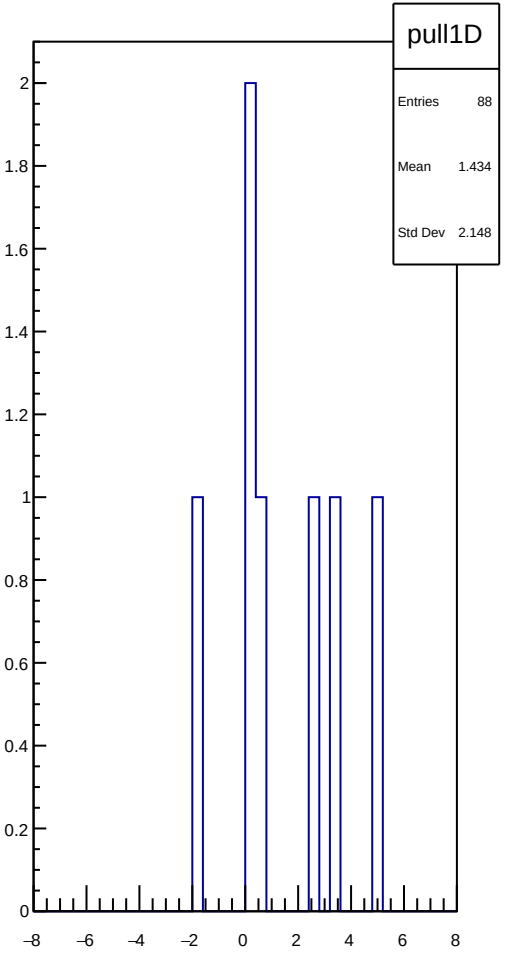

yield_atl2_rms vs run
χ² / ndf 1.002e+05 / 87
p0 0.0002634 ± 2.084e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

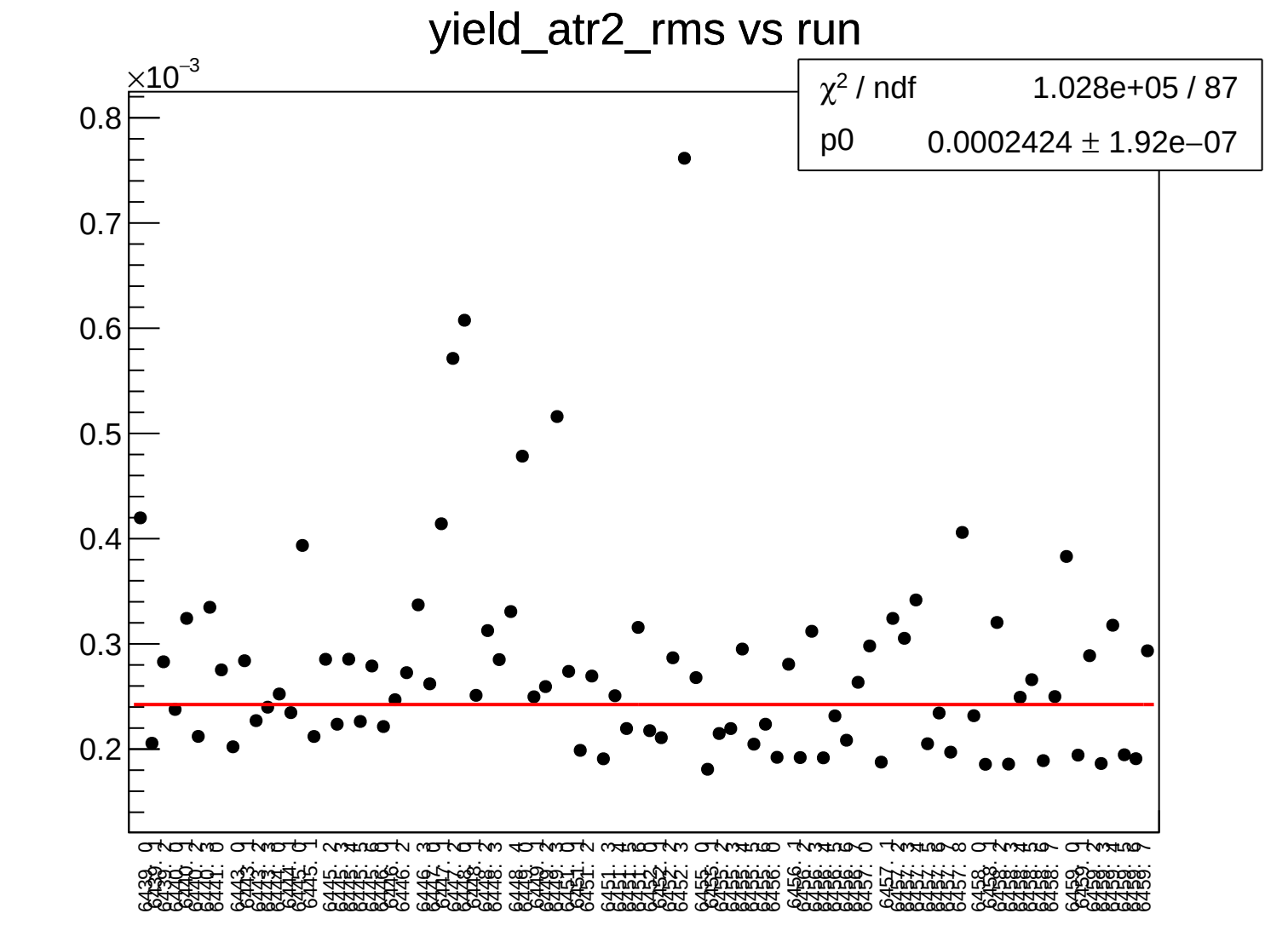

yield_atr1_mean vs run
χ² / ndf 4.386e+05 / 87
p0 0.03795 ± 1.471e−07
0.0383
0.0382
0.0381
0.038
0.0379
0.0378
0.0377
pull
Entries 88
Mean −4972
Std Dev 5020
100
50
0
−50
−100
−150

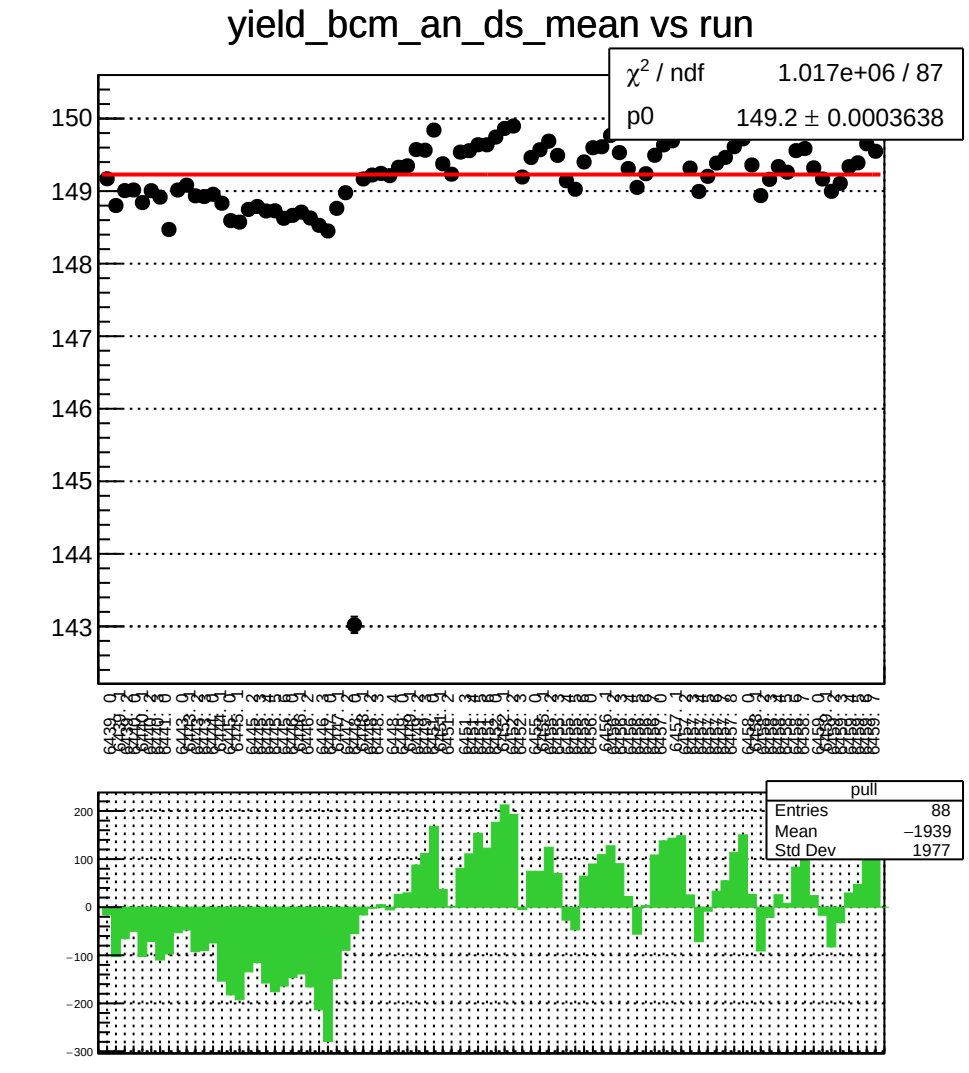

pull1D
Entries 88
Mean −0.2414
Std Dev 5.362
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

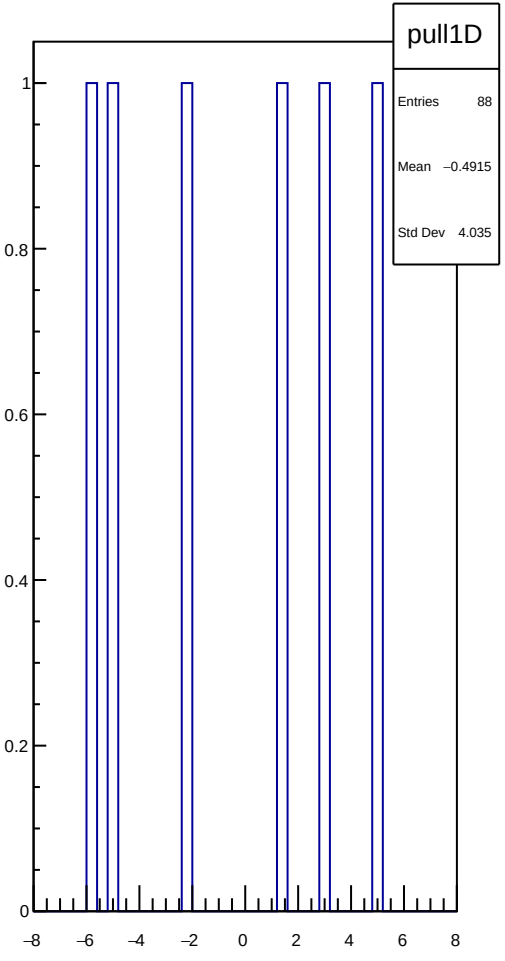

yield_atr1_rms vs run
×10⁻³
χ² / ndf 4.962e+04 / 87
p0 0.0001335 ± 1.04e−07
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

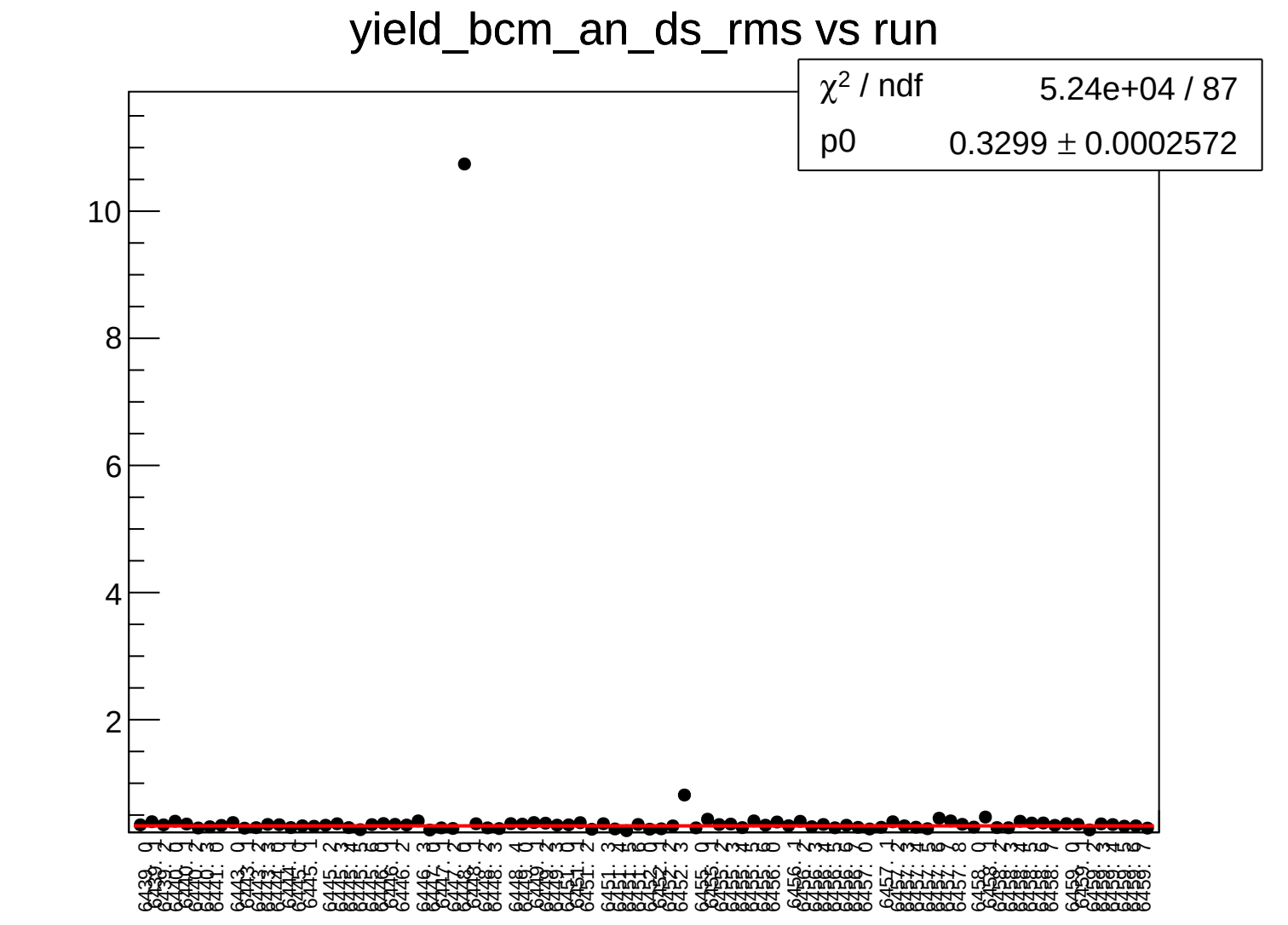

yield_atr2_mean vs run
χ² / ndf 2.685e+05 / 87
p0 0.0236 ± 2.715e−07
0.024
0.0238
0.0236
0.0234
0.0232
pull
Entries 88
Mean −1606
Std Dev 1640
200
150
100
50
0
−50
−100

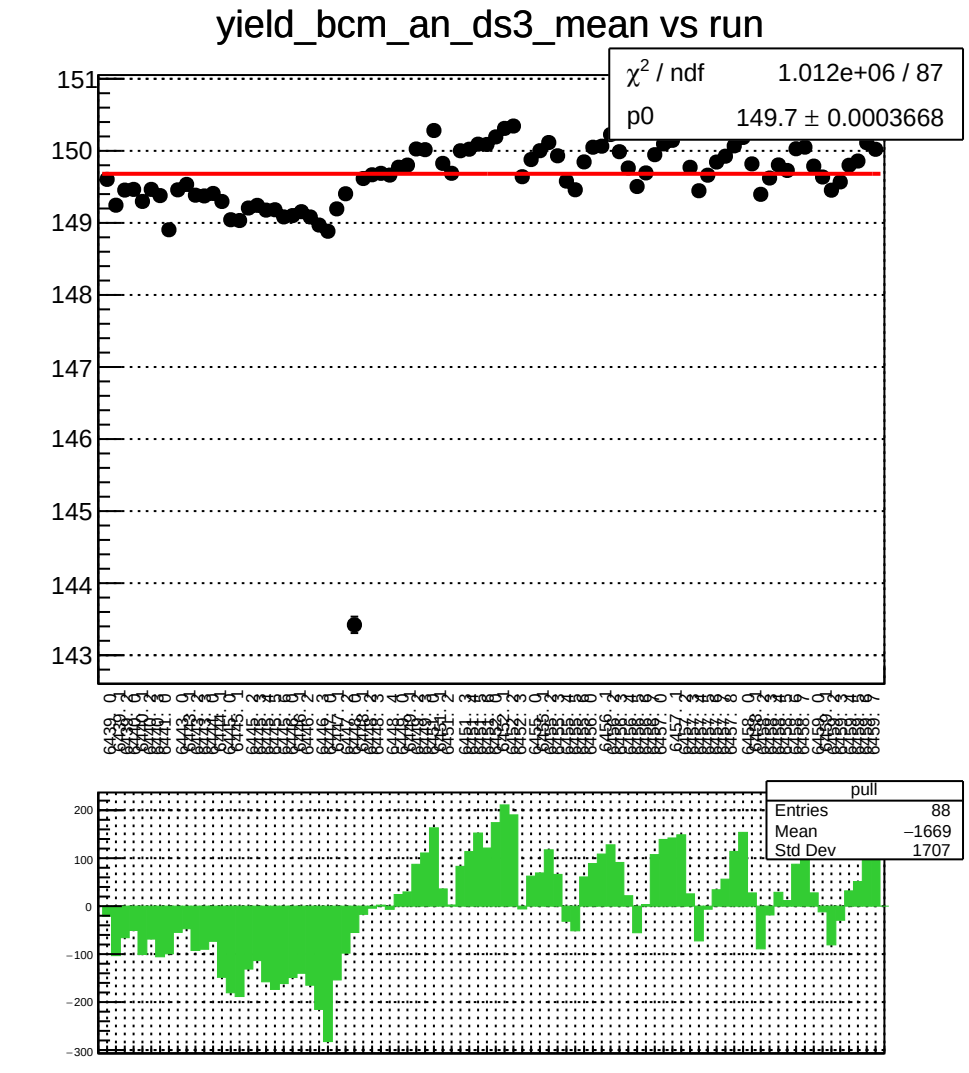

pull1D
Entries 88
Mean 1.434
Std Dev 2.148
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

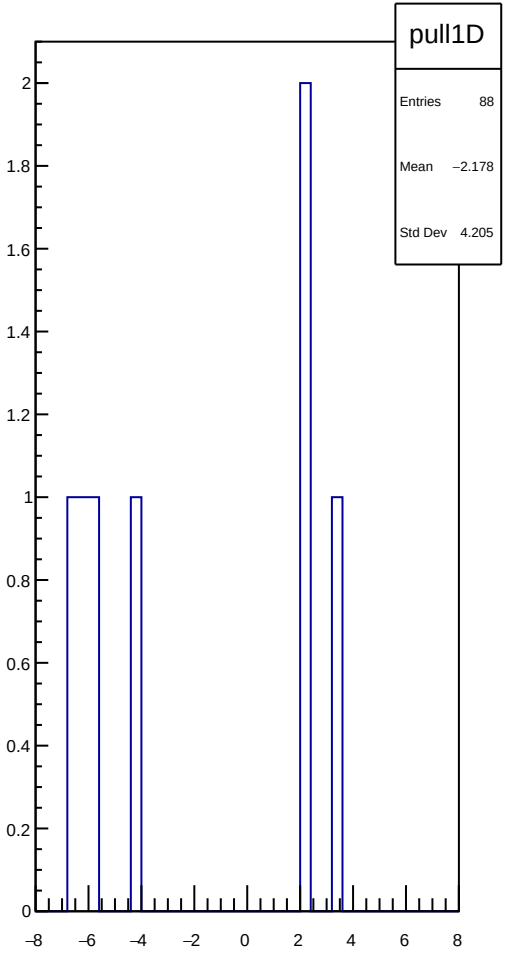

yield_atr2_rms vs run
×10⁻³
χ² / ndf 1.028e+05 / 87
p0 0.0002424 ± 1.92e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2

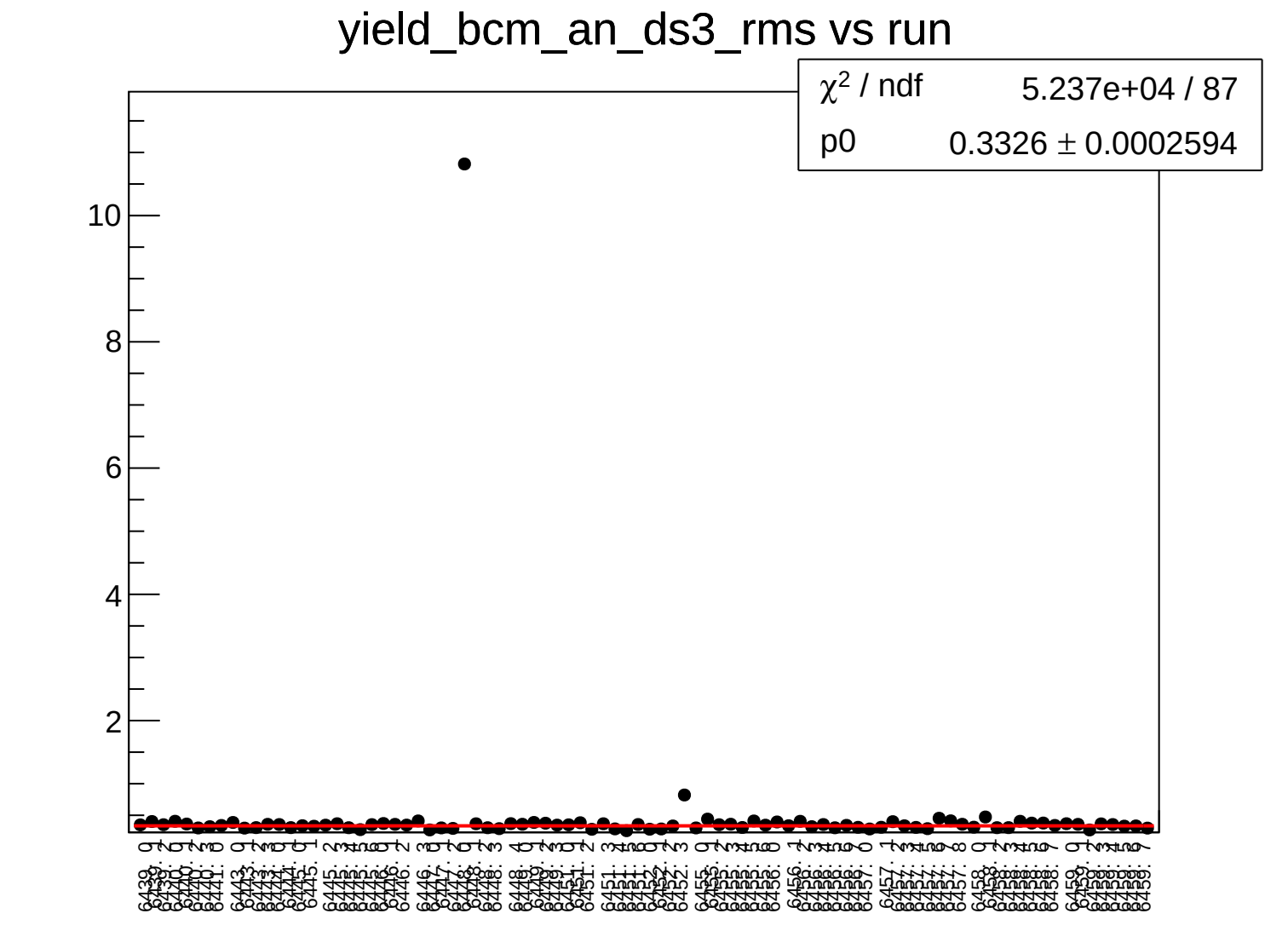

yield_bcm_an_ds_mean vs run
χ² / ndf 1.017e+06 / 87
p0 149.2 ± 0.0003638
150
149
148
147
146
145
144
143
pull
Entries 88
Mean −1939
Std Dev 1977
200
100
0
−100
−200
−300

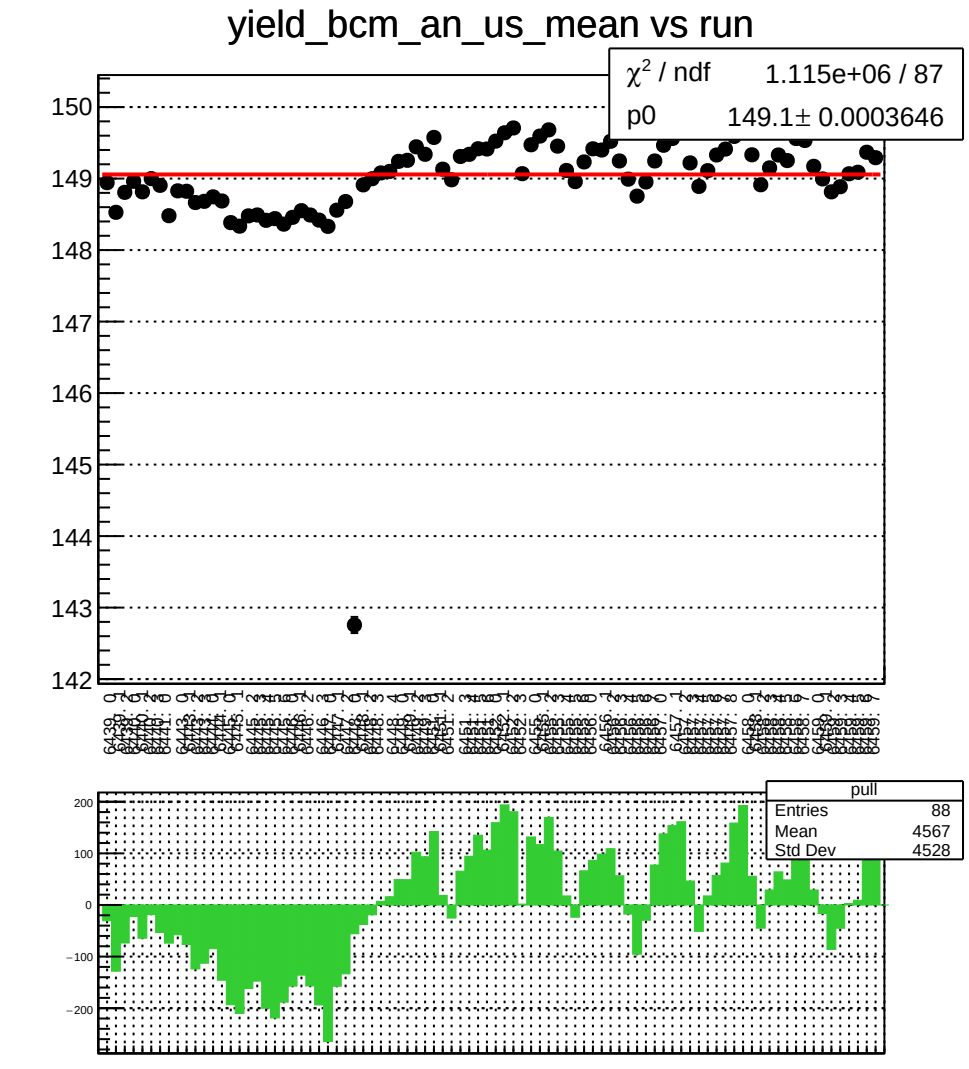

pull1D
Entries 88
Mean −0.4915
Std Dev 4.035
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

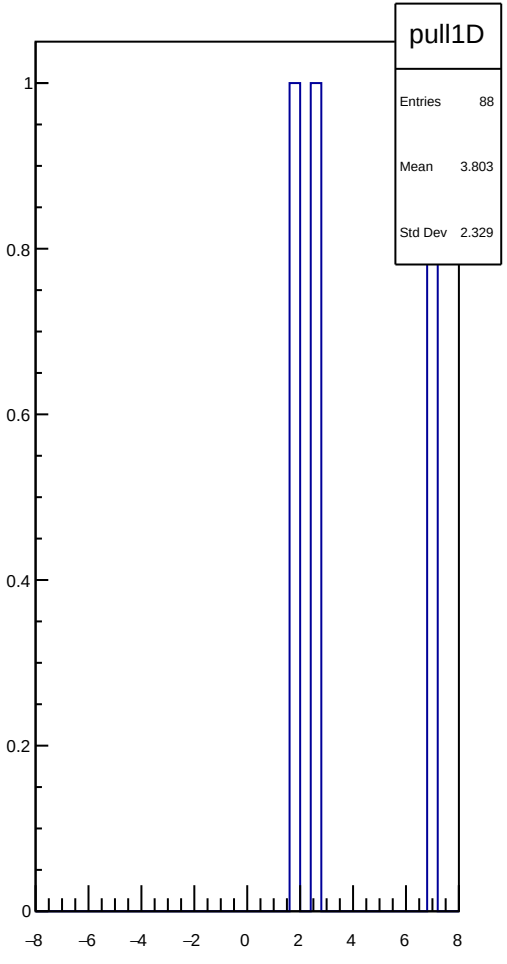

yield_bcm_an_ds_rms vs run
χ^2 / ndf 5.24e+04 / 87
p0 0.3299 ± 0.0002572
10
8
6
4
2

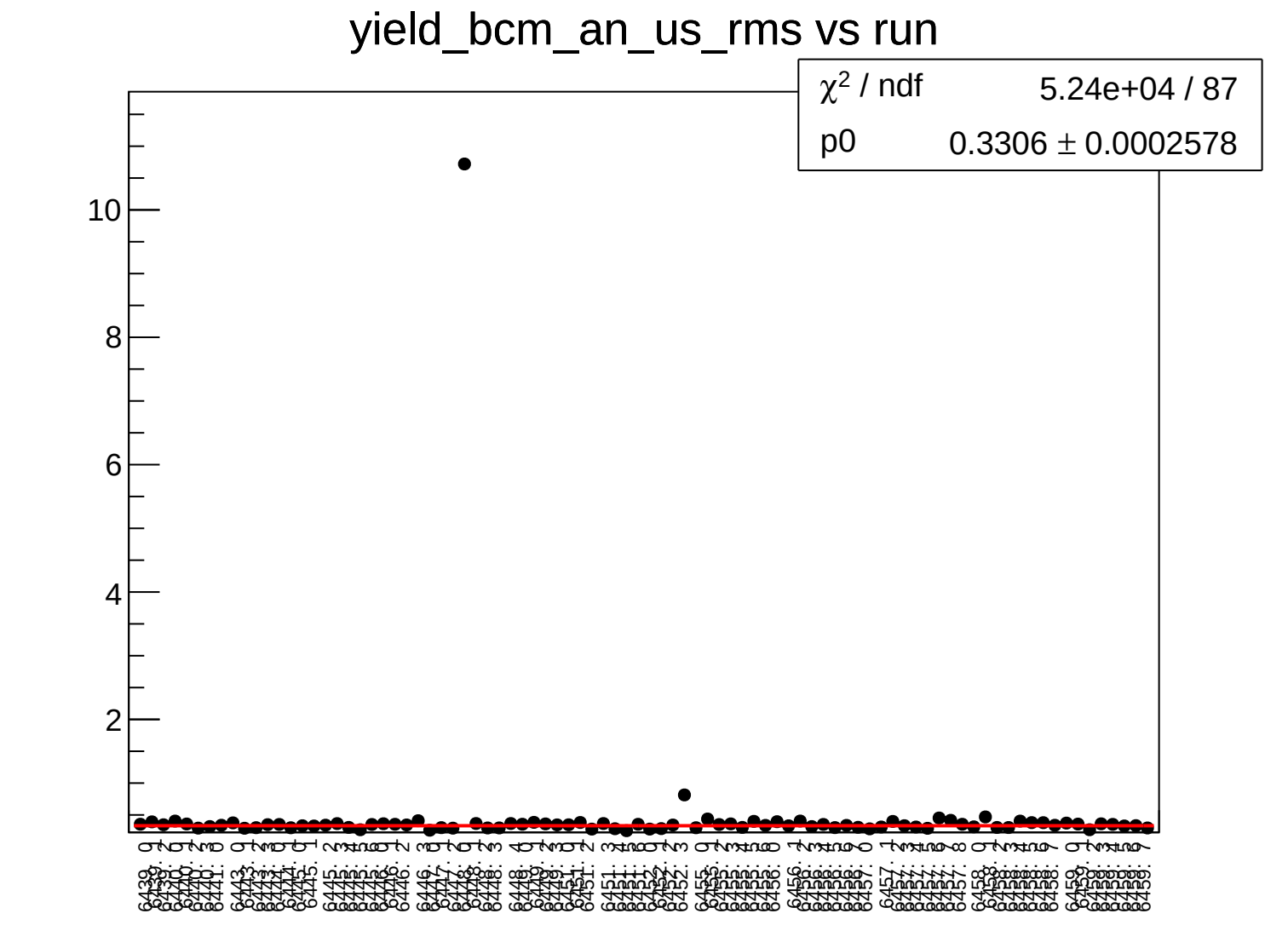

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.012e+06 / 87
p0 149.7 ± 0.0003668
pull
Entries 88
Mean −1669
Std Dev 1707

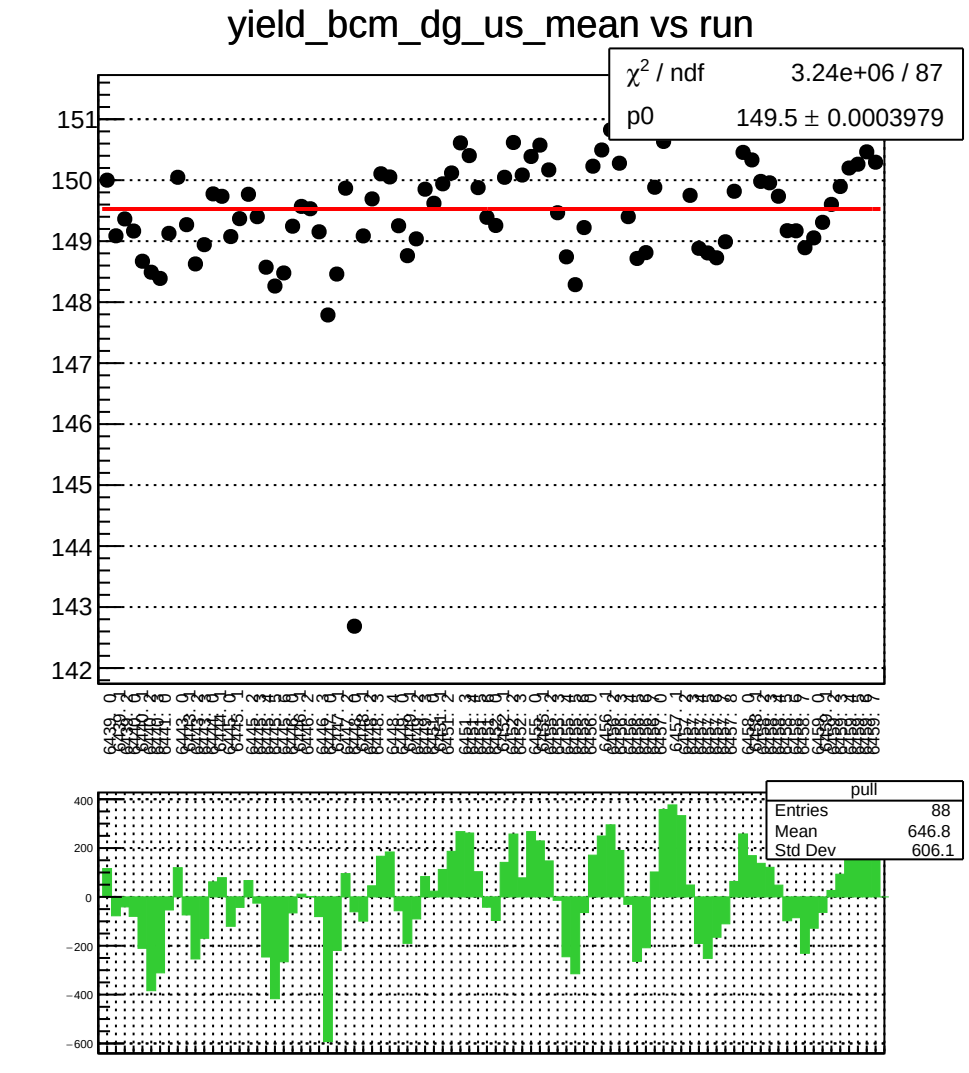

pull1D
Entries 88
Mean −2.178
Std Dev 4.205

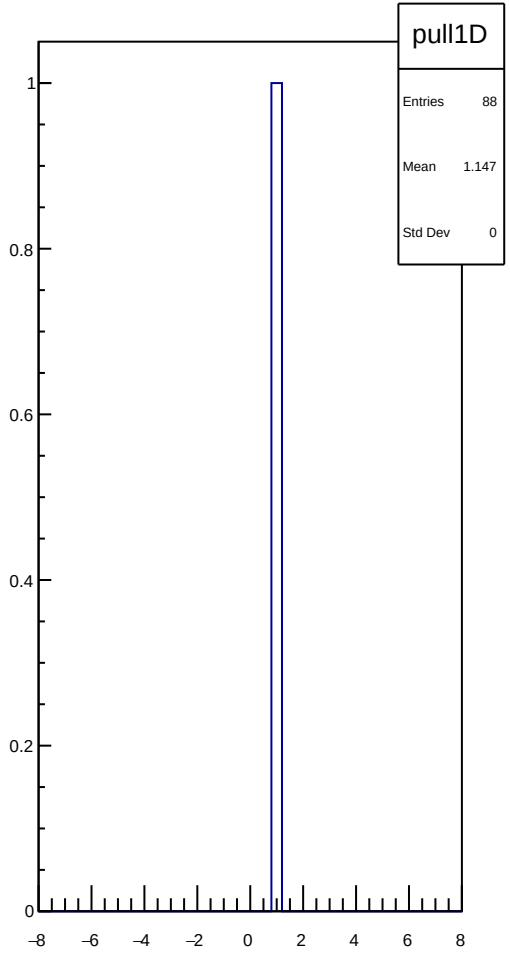

yield_bcm_an_ds3_rms vs run
χ^2 / ndf 5.237e+04 / 87
p0 0.3326 ± 0.0002594
10
8
6
4
2

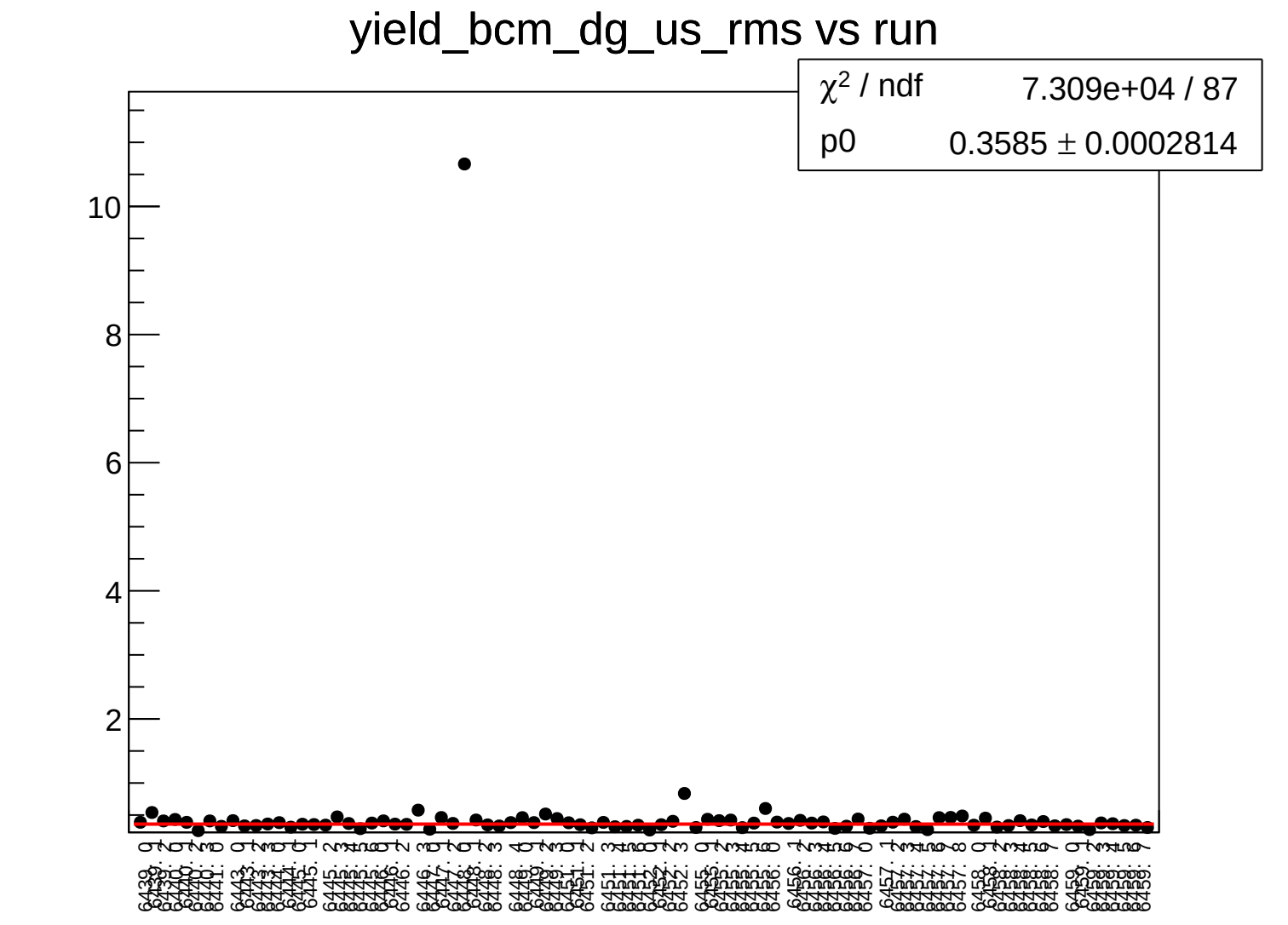

yield_bcm_an_us_mean vs run
χ² / ndf 1.115e+06 / 87
p0 149.1± 0.0003646
150
149
148
147
146
145
144
143
142
pull
Entries 88
Mean 4567
Std Dev 4528
200
100
0
−100
−200

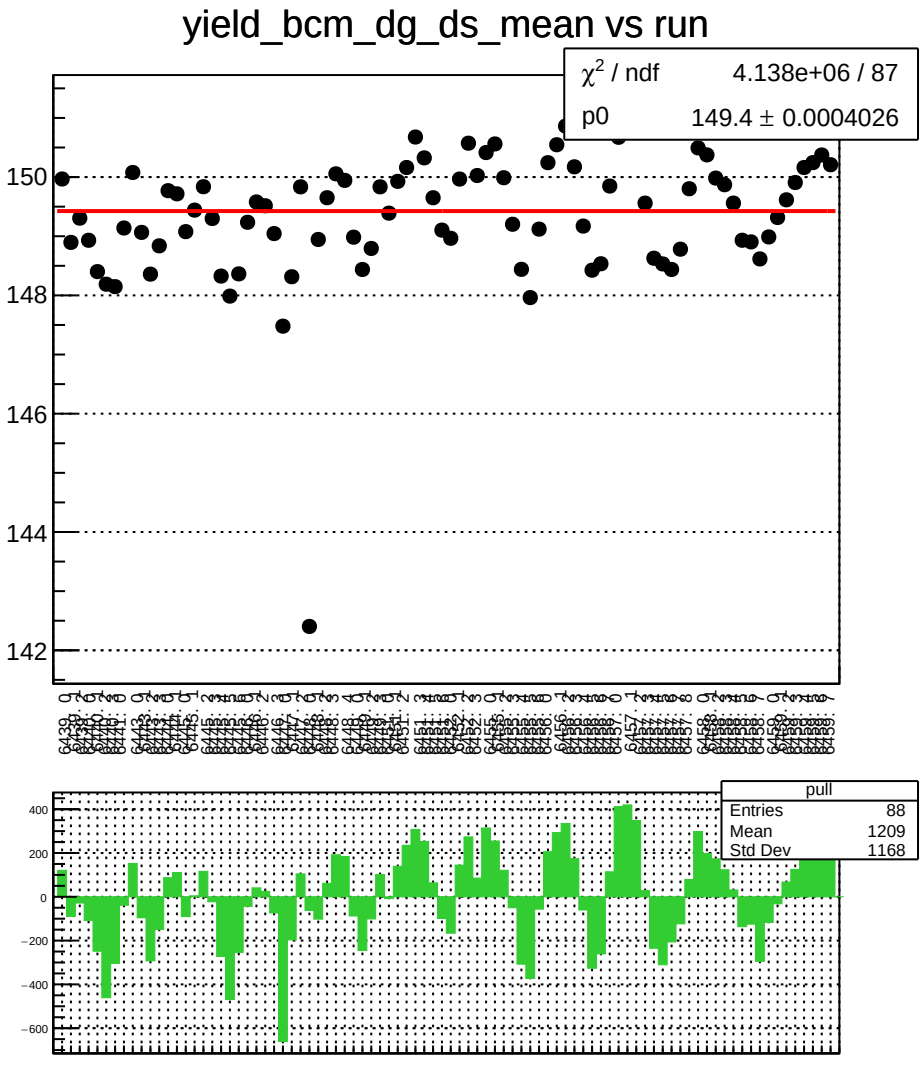

pull1D
Entries 88
Mean 3.803
Std Dev 2.329
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

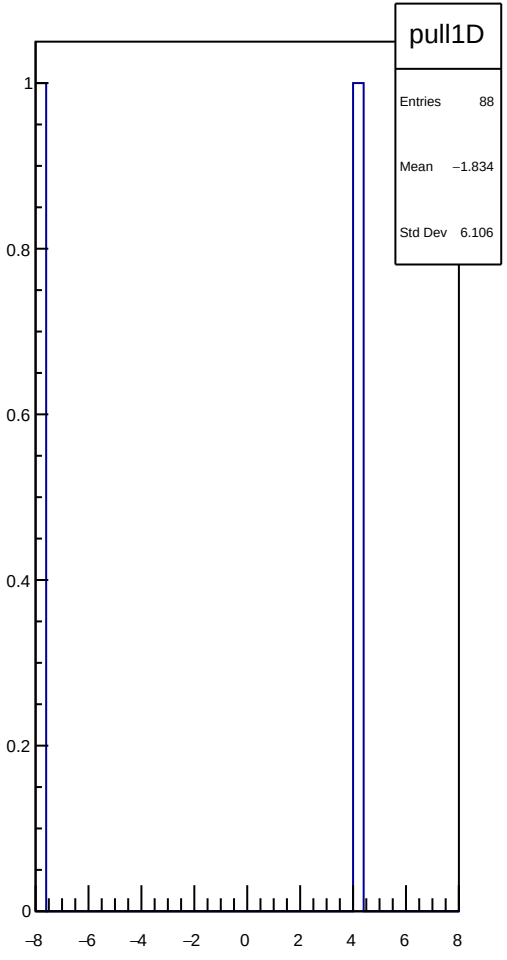

yield_bcm_an_us_rms vs run
χ² / ndf 5.24e+04 / 87
p0 0.3306 ± 0.0002578
10
8
6
4
2

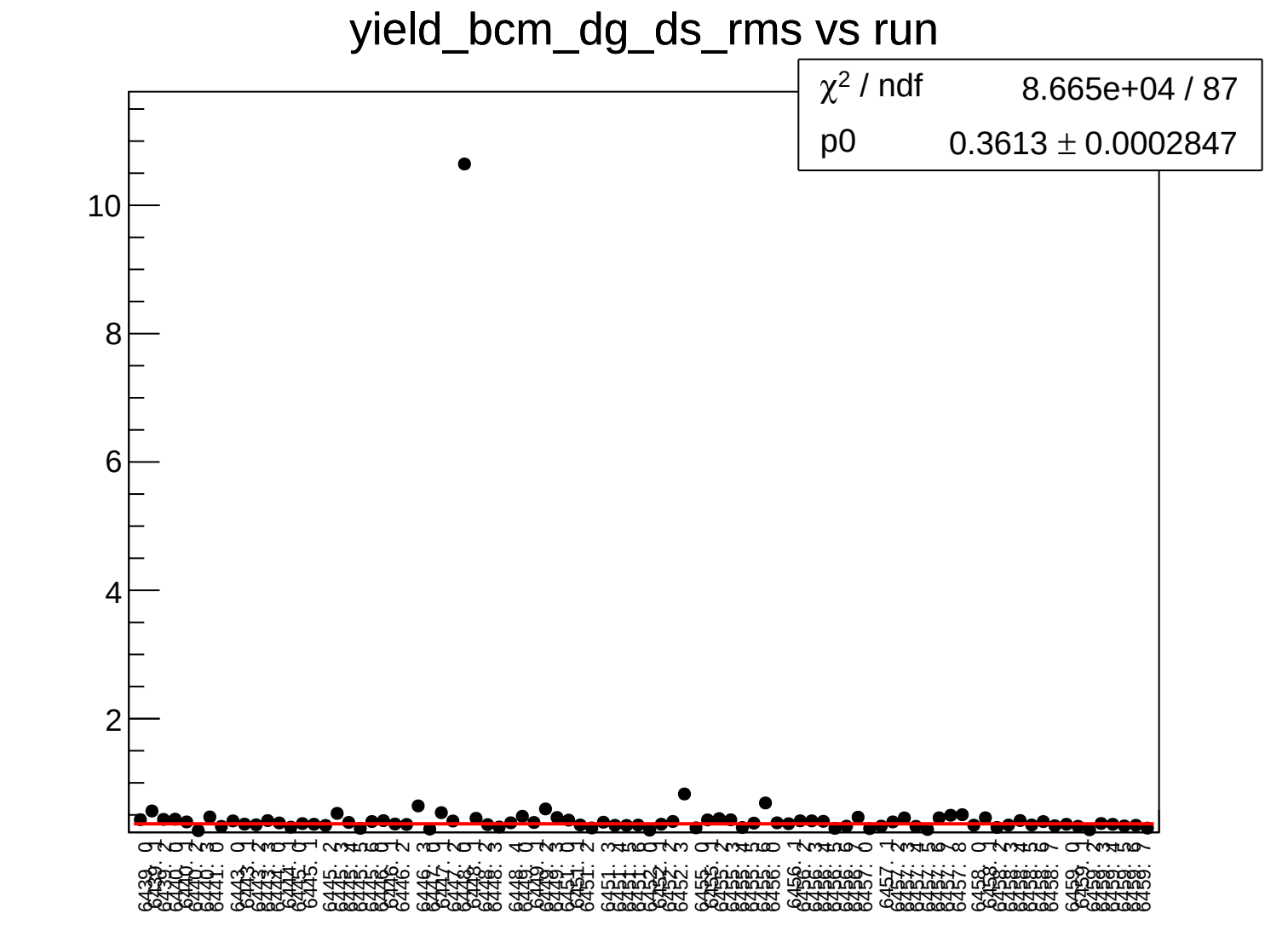

yield_bcm_dg_us_mean vs run
χ² / ndf 3.24e+06 / 87
p0 149.5 ± 0.0003979
151
150
149
148
147
146
145
144
143
142
pull
Entries 88
Mean 646.8
Std Dev 606.1
400
200
0
−200
−400
−600

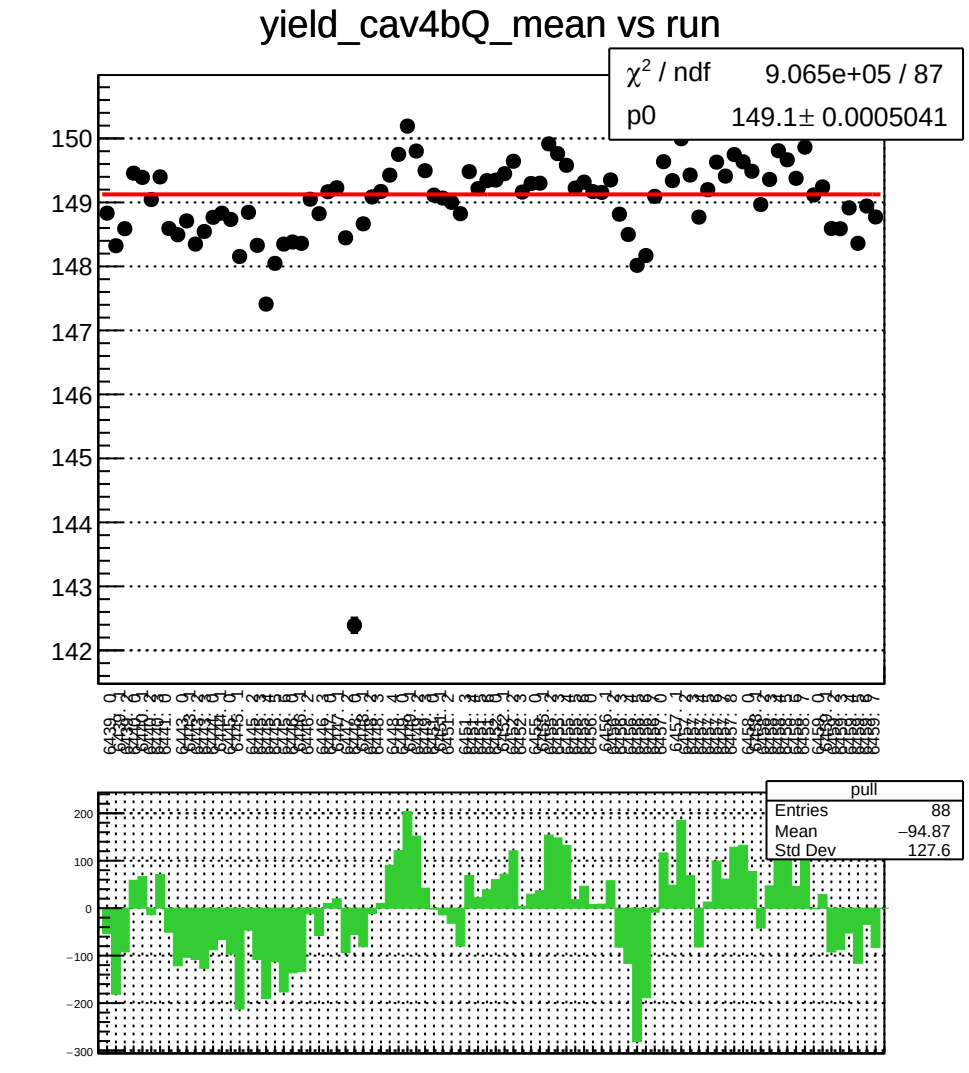

pull1D
Entries 88
Mean 1.147
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

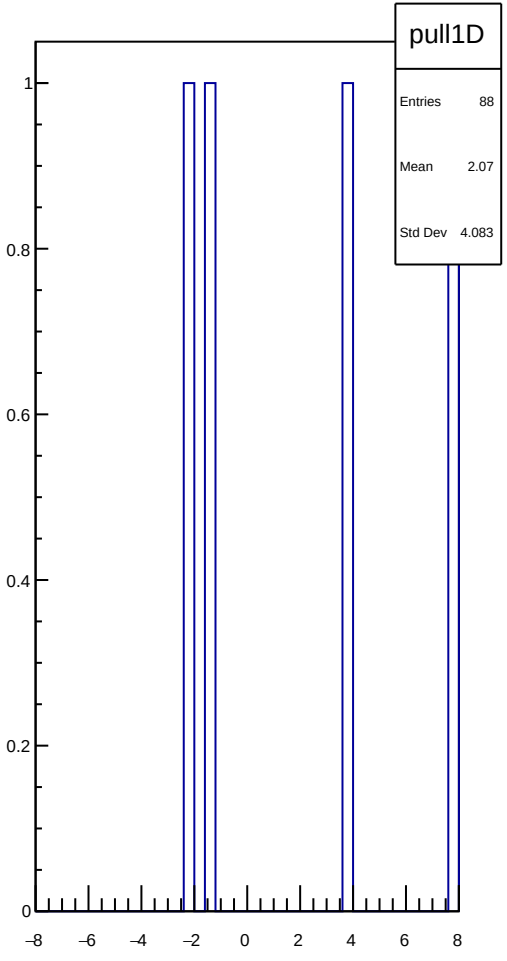

yield_bcm_dg_us_rms vs run
χ² / ndf 7.309e+04 / 87
p0 0.3585 ± 0.0002814
10
8
6
4
2

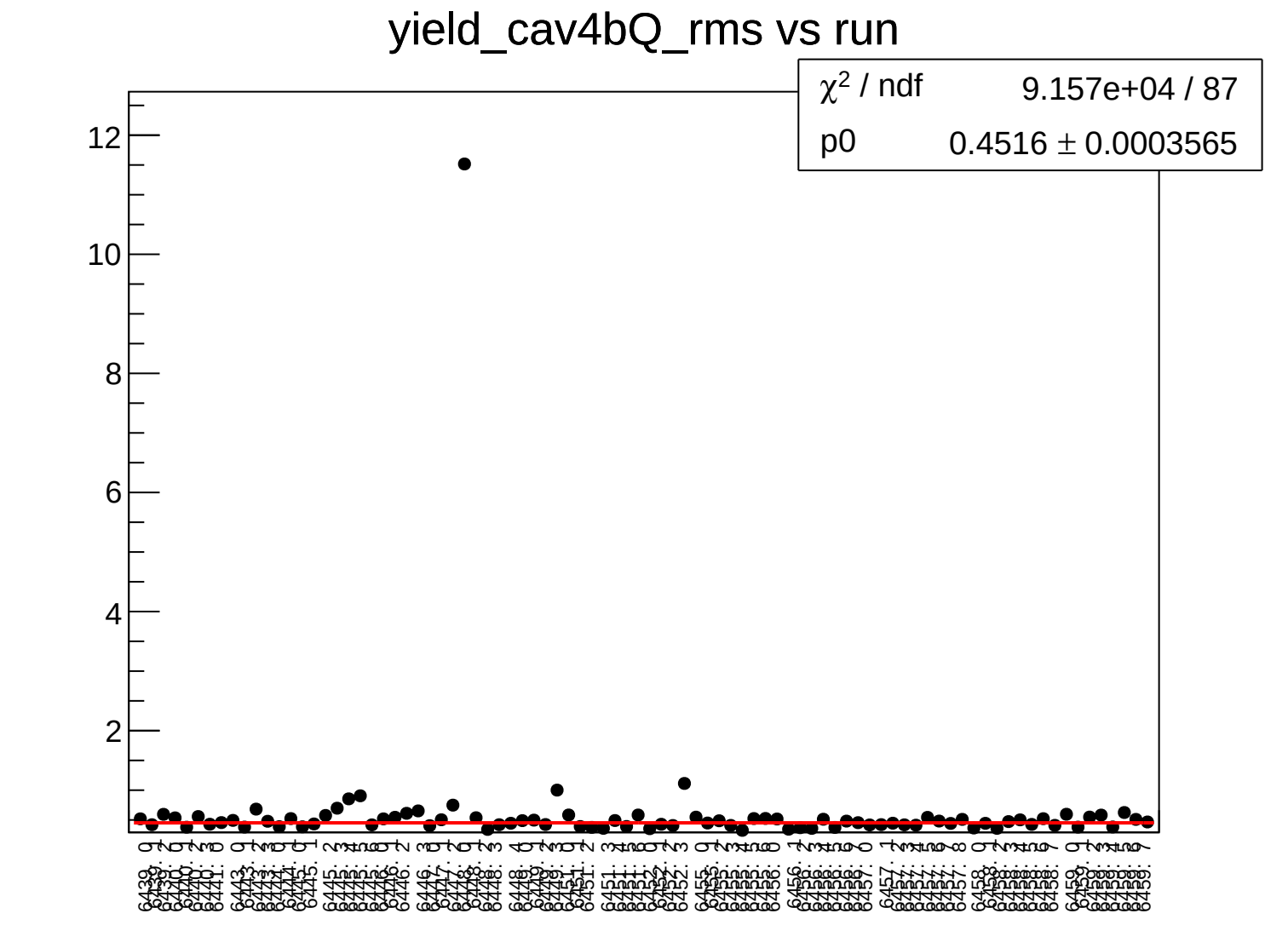

yield_bcm_dg_ds_mean vs run
χ² / ndf 4.138e+06 / 87
p0 149.4 ± 0.0004026
150
148
146
144
142
pull
Entries 88
Mean 1209
Std Dev 1168
400
200
0
−200
−400
−600

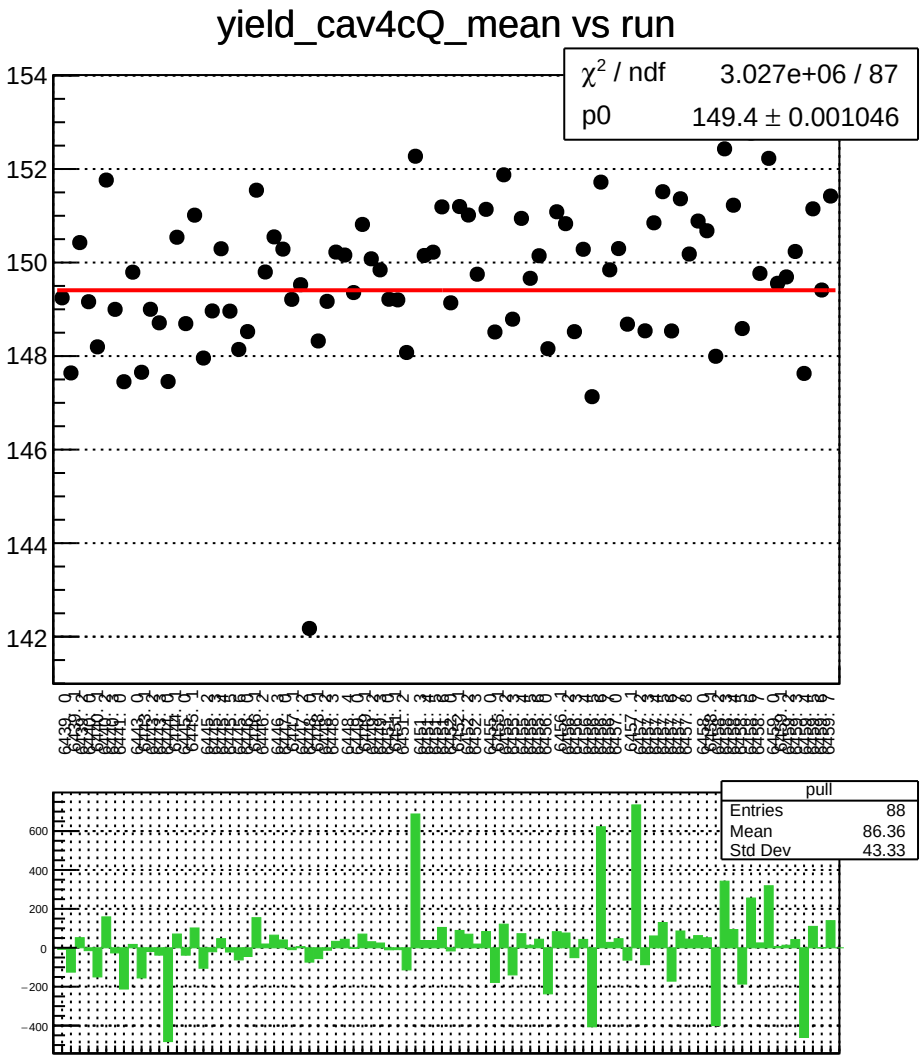

pull1D
Entries 88
Mean −1.834
Std Dev 6.106
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

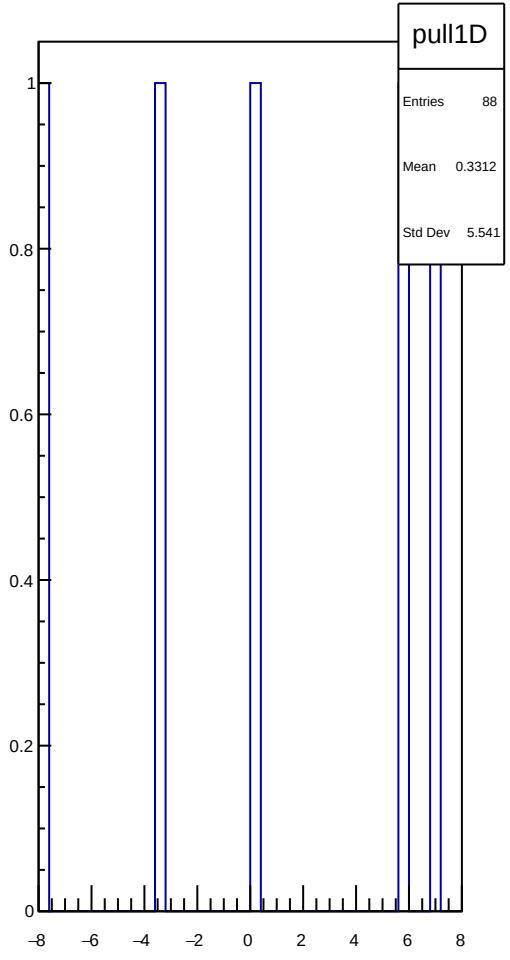

yield_bcm_dg_ds_rms vs run
χ² / ndf 8.665e+04 / 87
p0 0.3613 ± 0.0002847
10
8
6
4
2

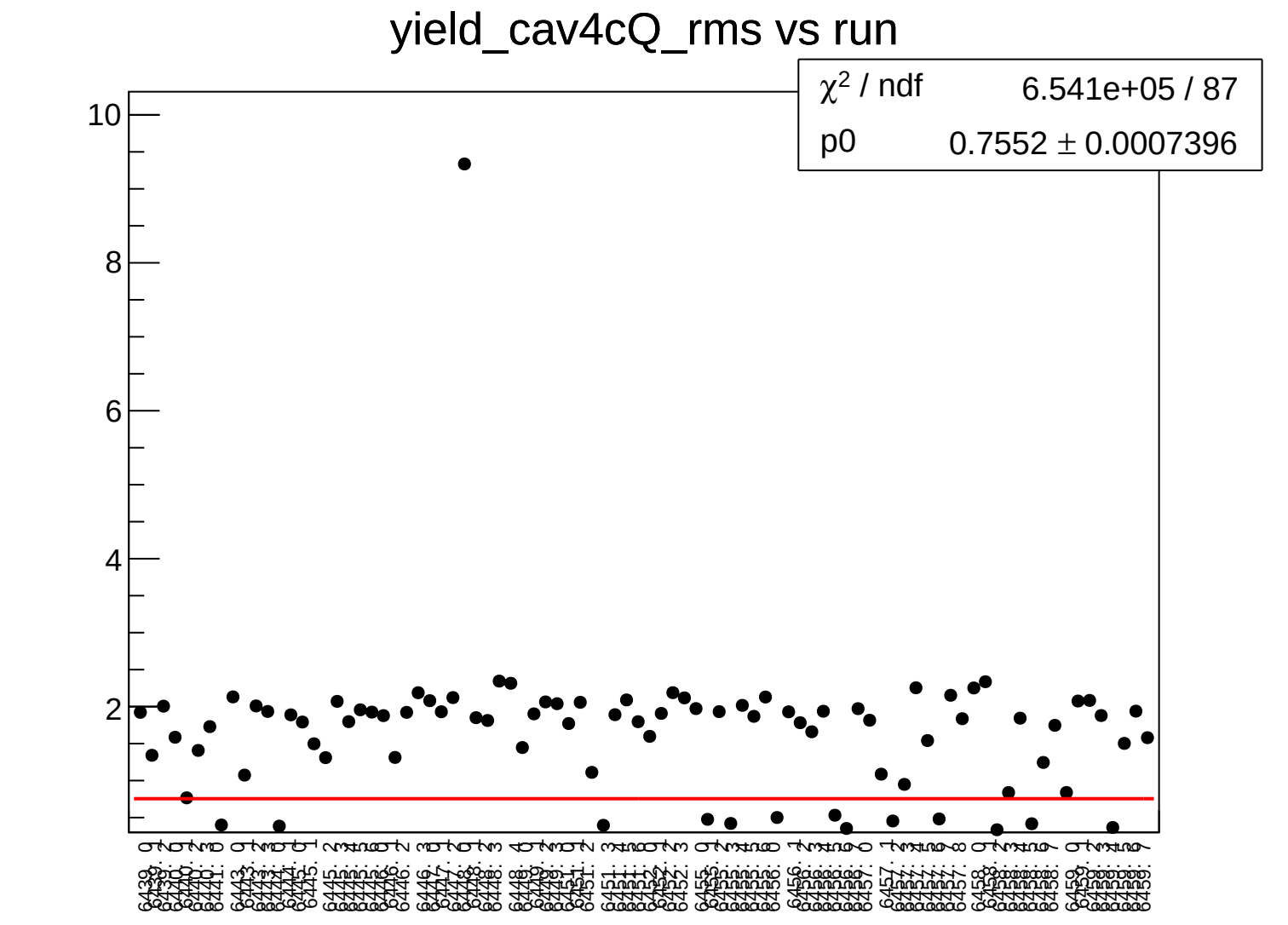

yield_cav4bQ_mean vs run
χ² / ndf 9.065e+05 / 87
p0 149.1± 0.0005041
150
149
148
147
146
145
144
143
142
pull
Entries 88
Mean −94.87
Std Dev 127.6
200
100
0
−100
−200
−300

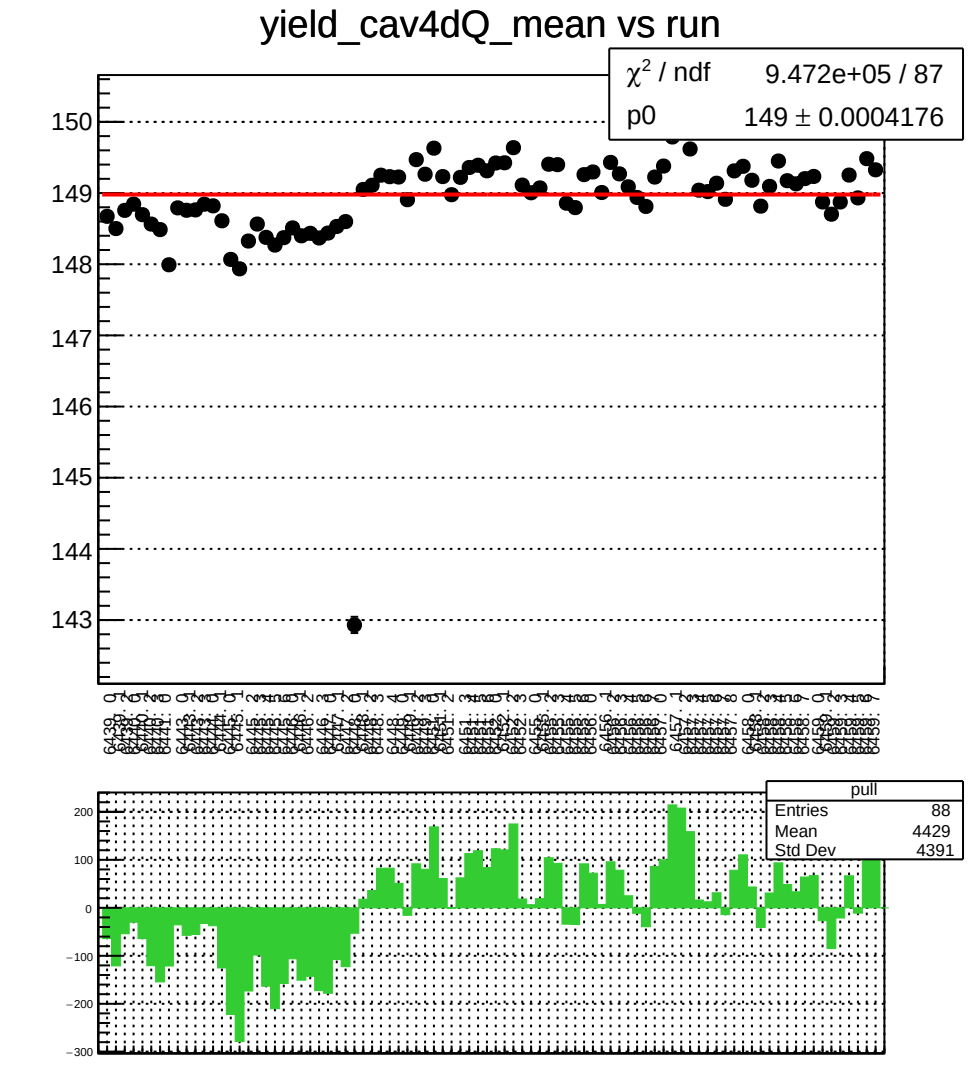

pull1D
Entries 88
Mean 2.07
Std Dev 4.083
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

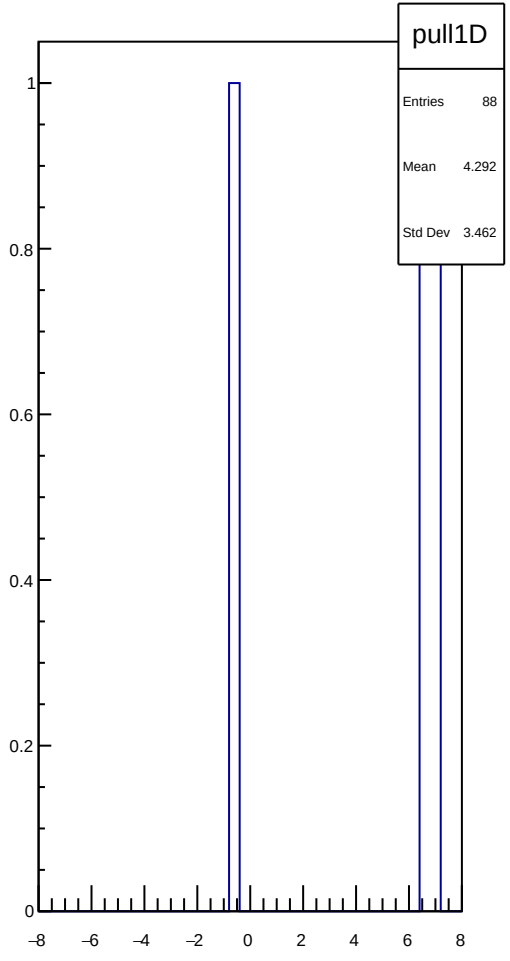

yield_cav4bQ_rms vs run
χ^2 / ndf 9.157e+04 / 87
p0 0.4516 ± 0.0003565
12
10
8
6
4
2

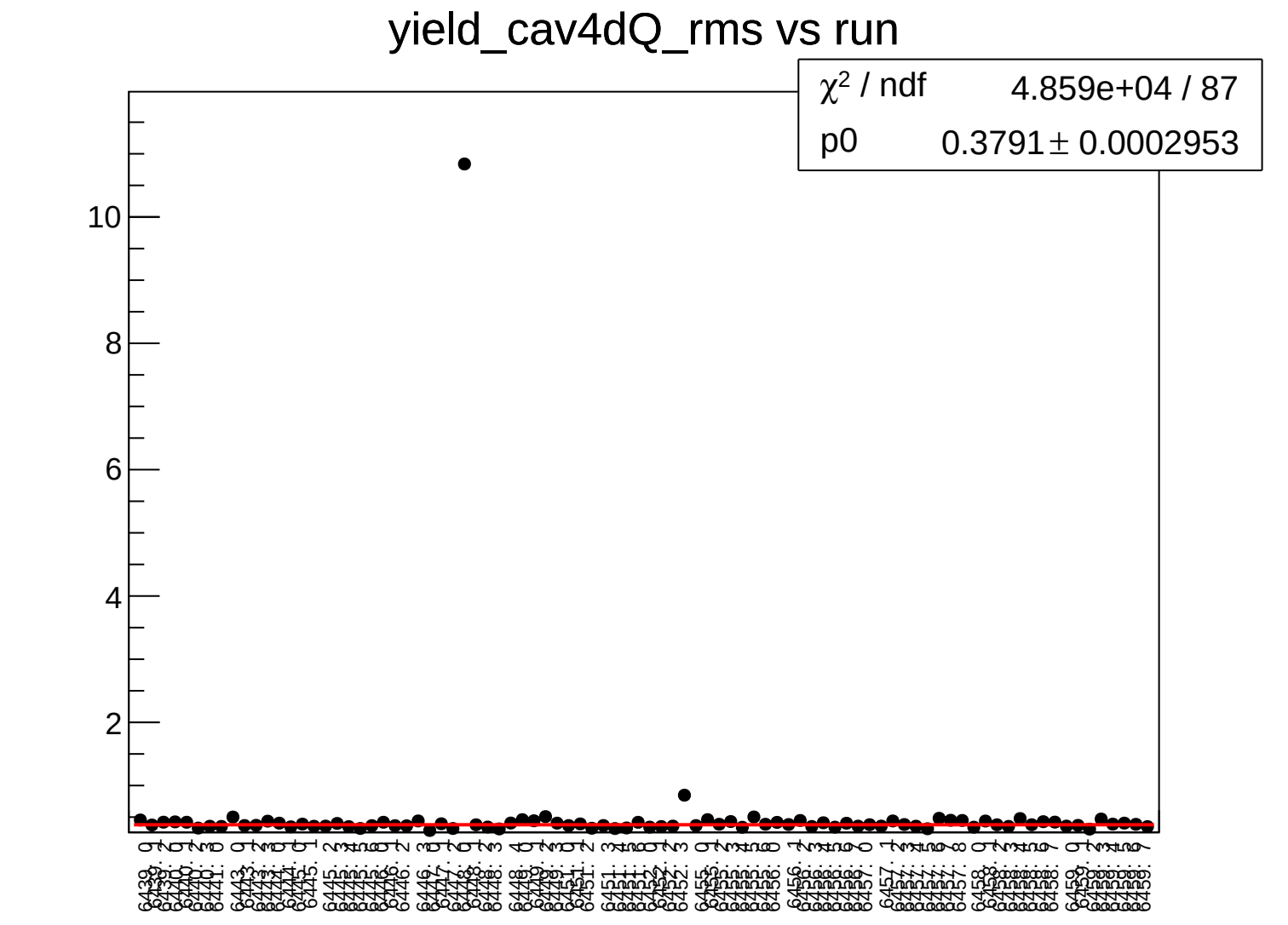

yield_cav4cQ_mean vs run
χ² / ndf 3.027e+06 / 87
p0 149.4 ± 0.001046
154
152
150
148
146
144
142
pull
Entries 88
Mean 86.36
Std Dev 43.33
600
400
200
0
−200
−400

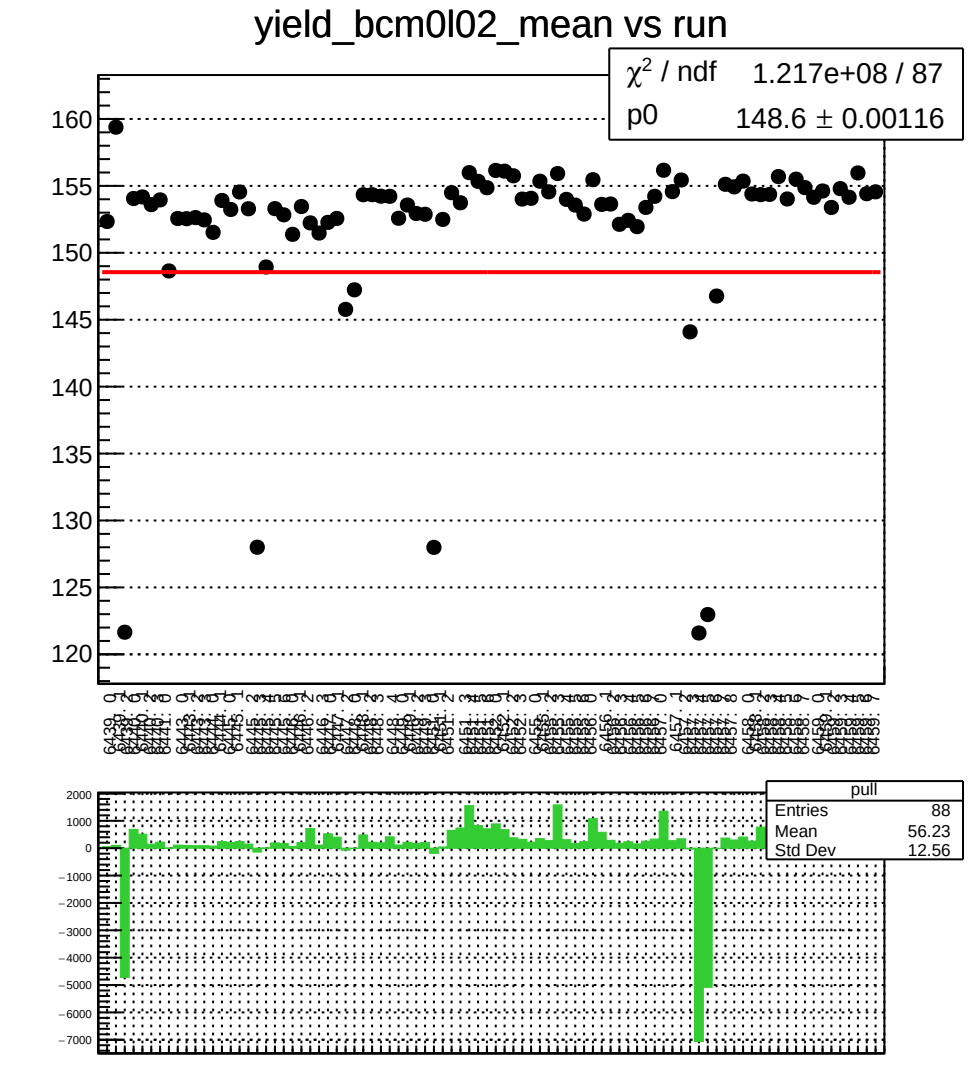

pull1D
Entries 88
Mean 0.3312
Std Dev 5.541
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

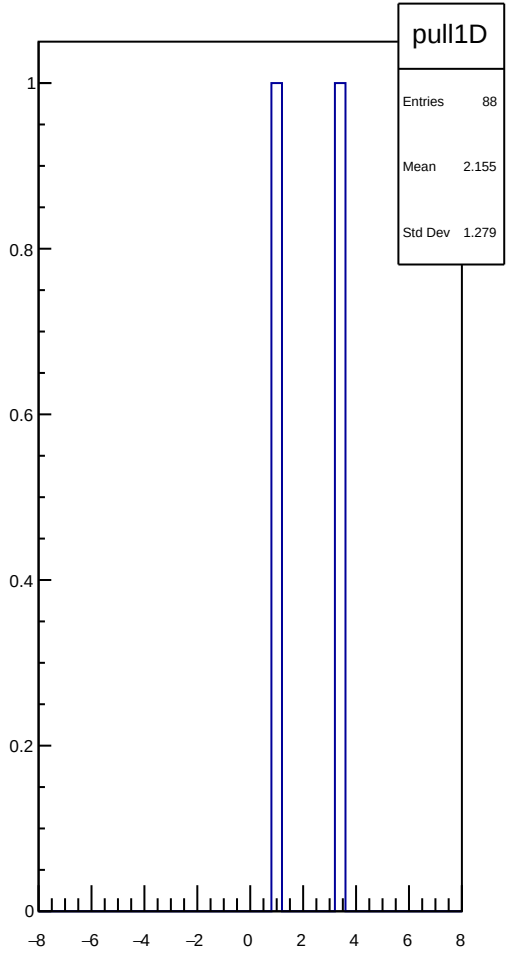

yield_cav4cQ_rms vs run
χ² / ndf 6.541e+05 / 87
p0 0.7552 ± 0.0007396
10
8
6
4
2

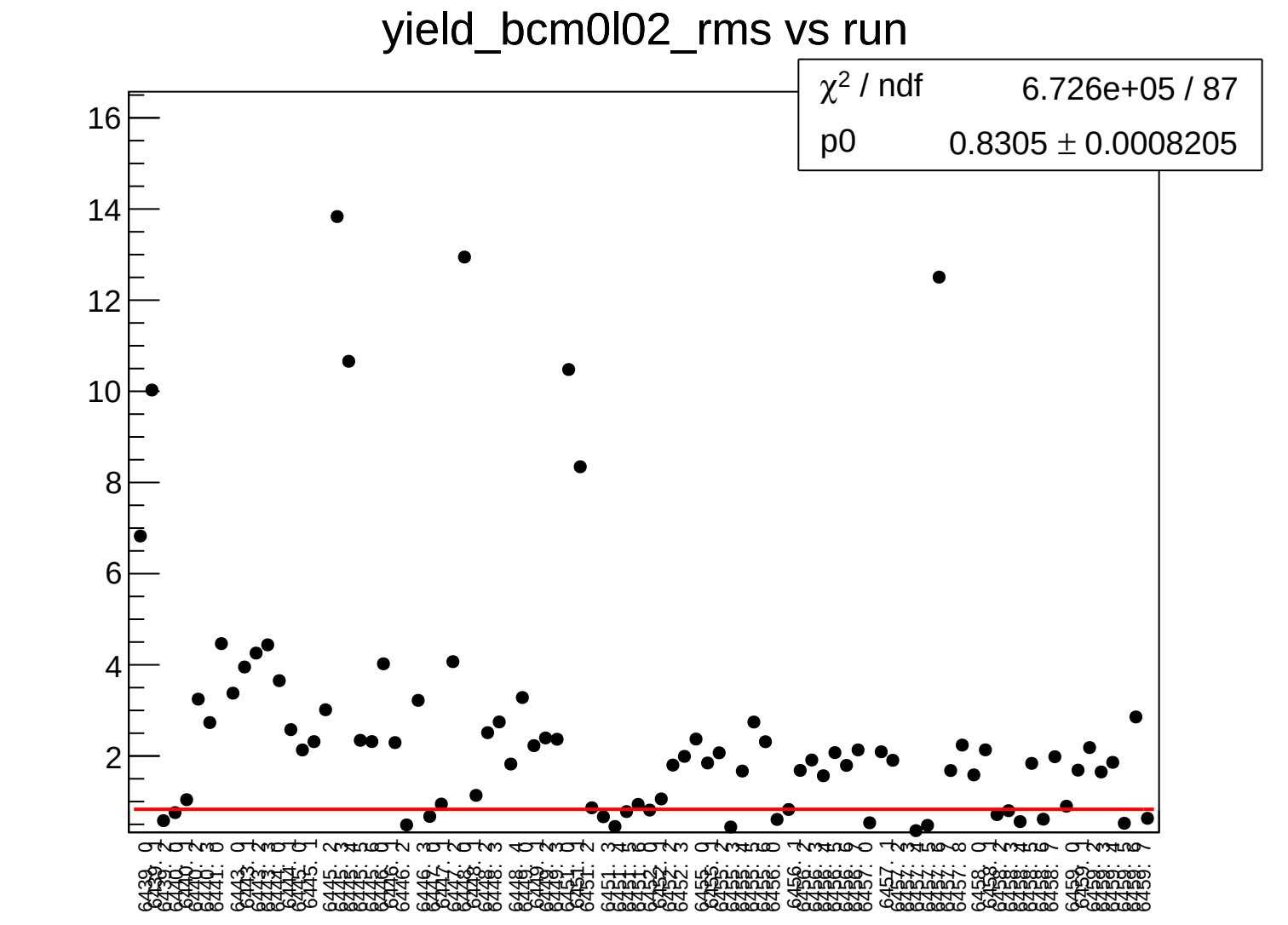

yield_cav4dQ_mean vs run
χ² / ndf 9.472e+05 / 87
p0 149 ± 0.0004176
150
149
148
147
146
145
144
143
pull
Entries 88
Mean 4429
Std Dev 4391
200
100
0
−100
−200
−300

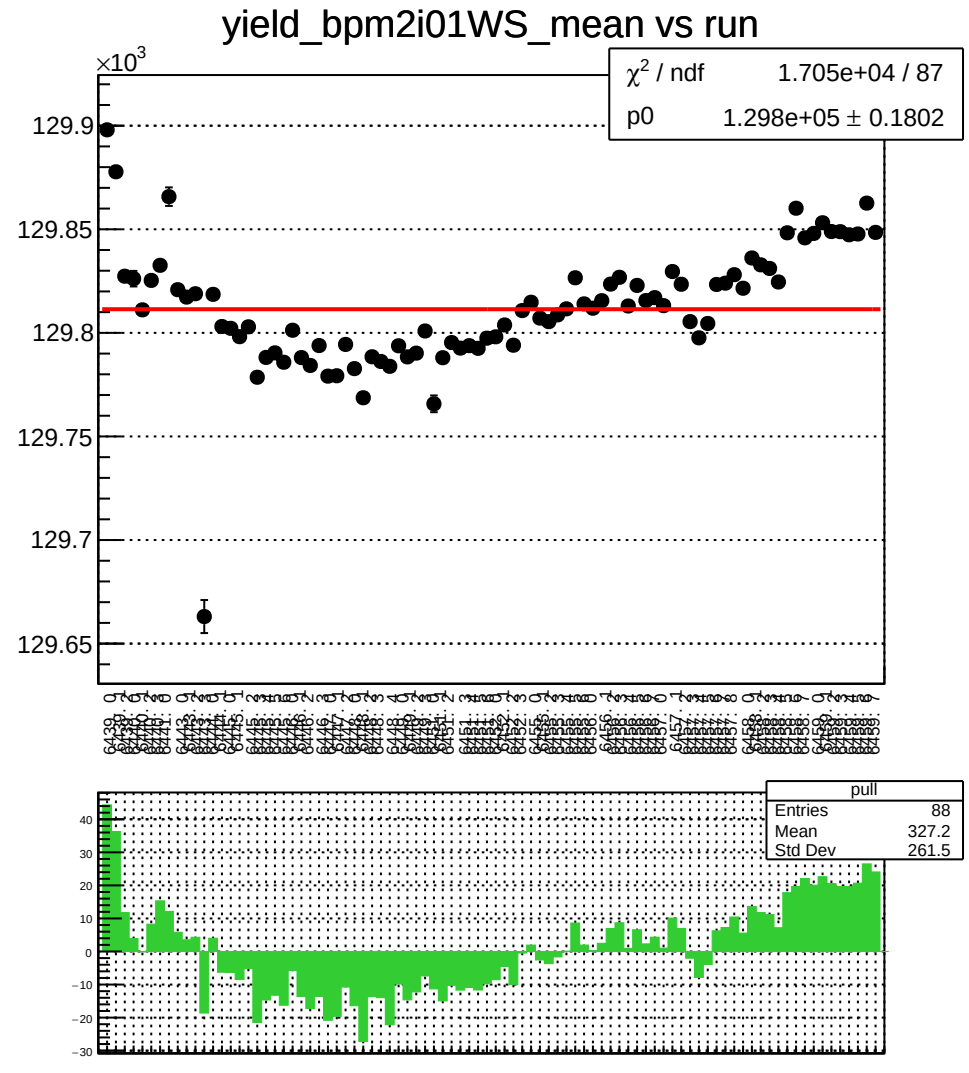

pull1D
Entries 88
Mean 4.292
Std Dev 3.462
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

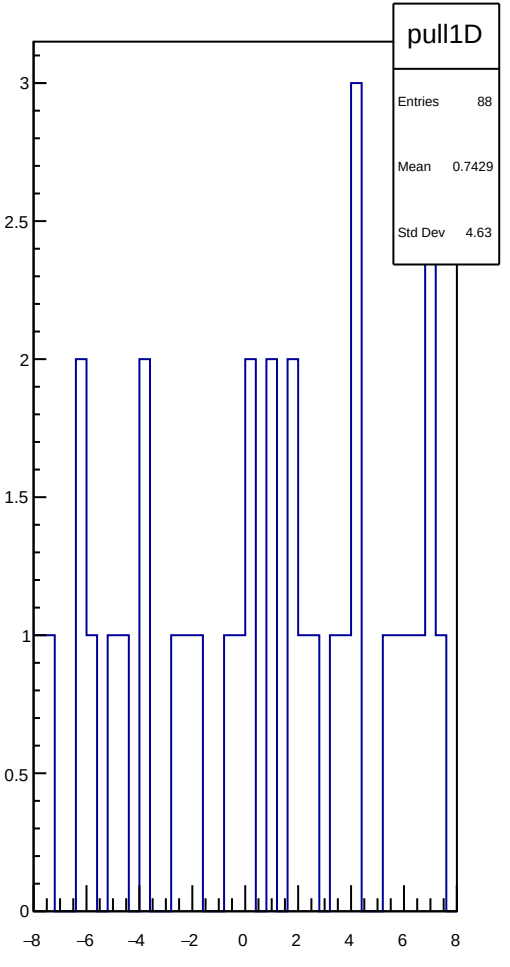

yield_cav4dQ_rms vs run
χ² / ndf 4.859e+04 / 87
p0 0.3791 ± 0.0002953
10
8
6
4
2

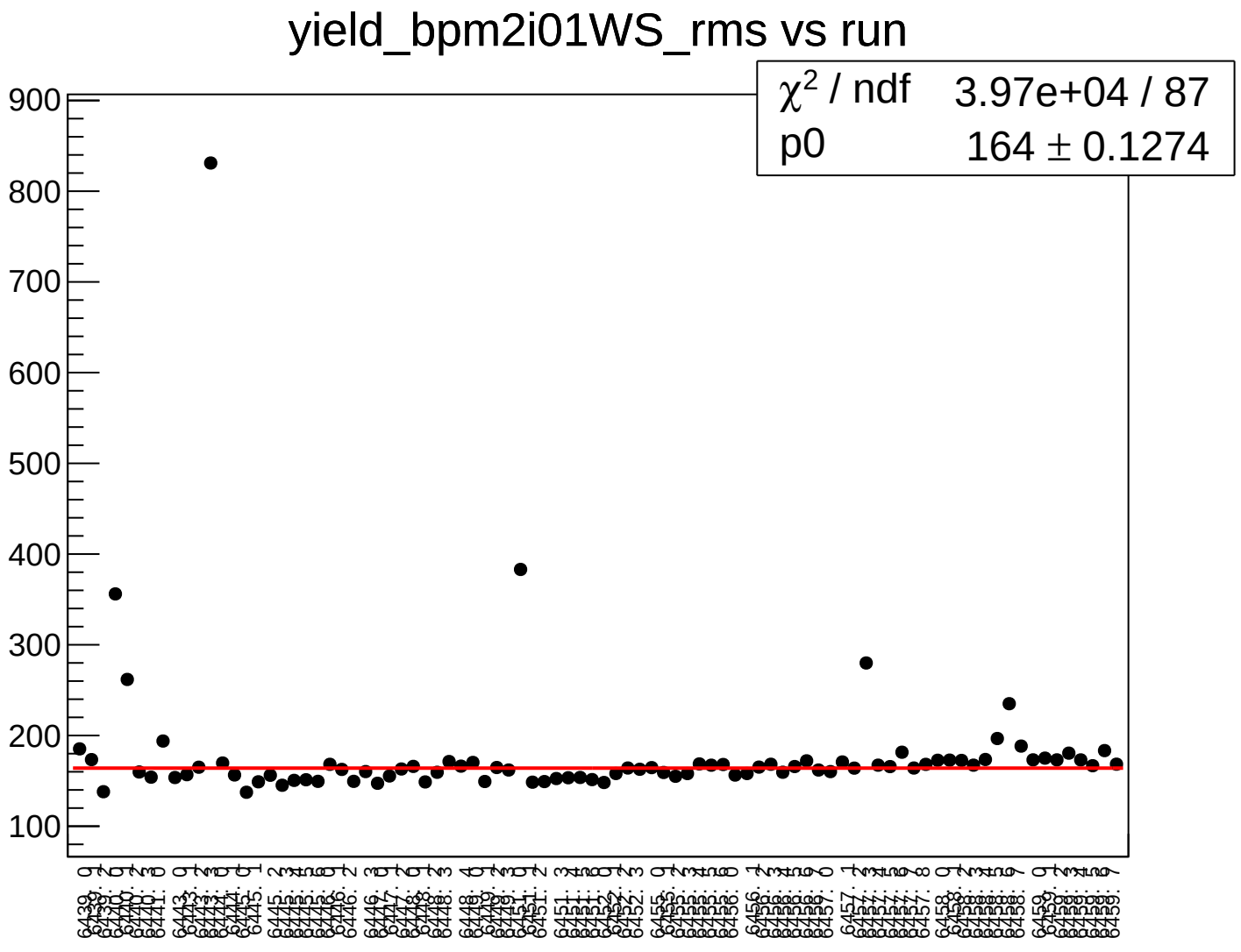

yield_bcm0l02_mean vs run
χ² / ndf 1.217e+08 / 87
p0 148.6 ± 0.00116
160
155
150
145
140
135
130
125
120
pull
Entries 88
Mean 56.23
Std Dev 12.56
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000

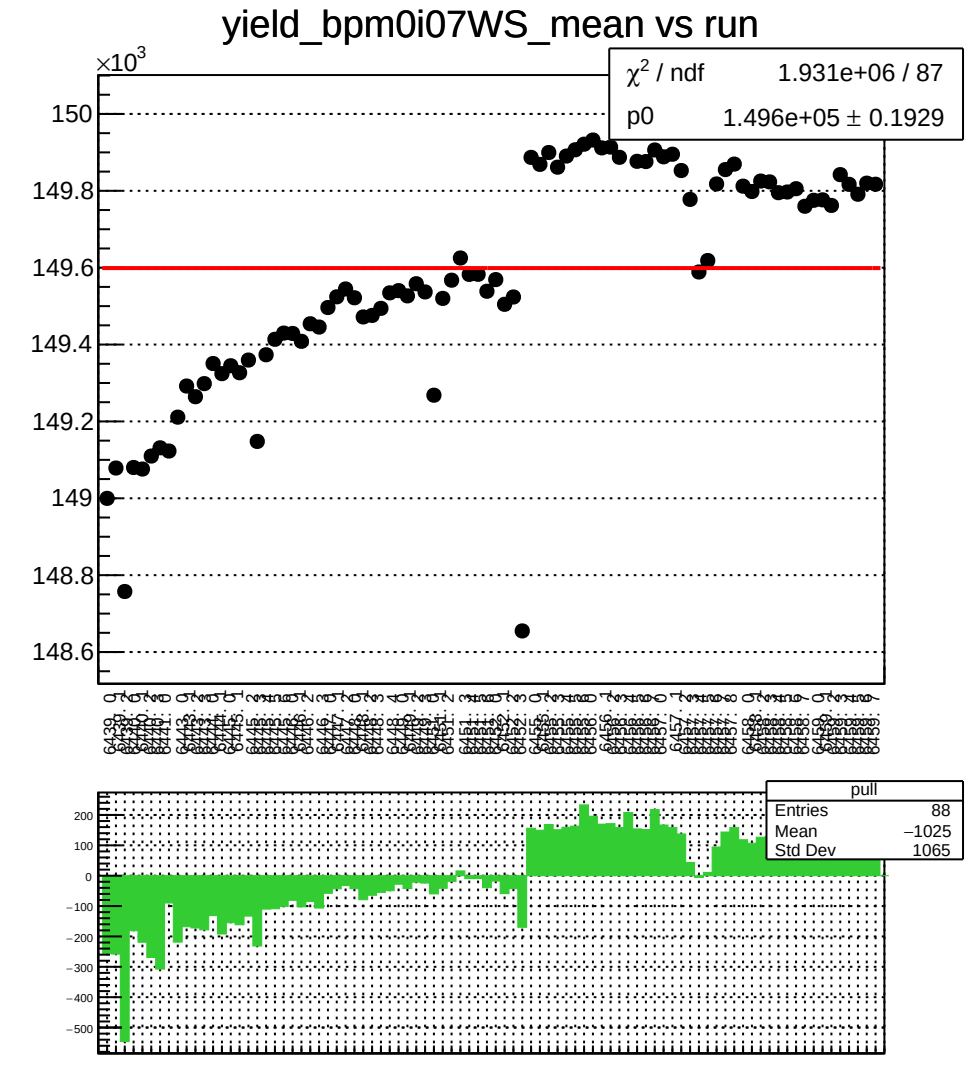

pull1D
Entries 88
Mean 2.155
Std Dev 1.279
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

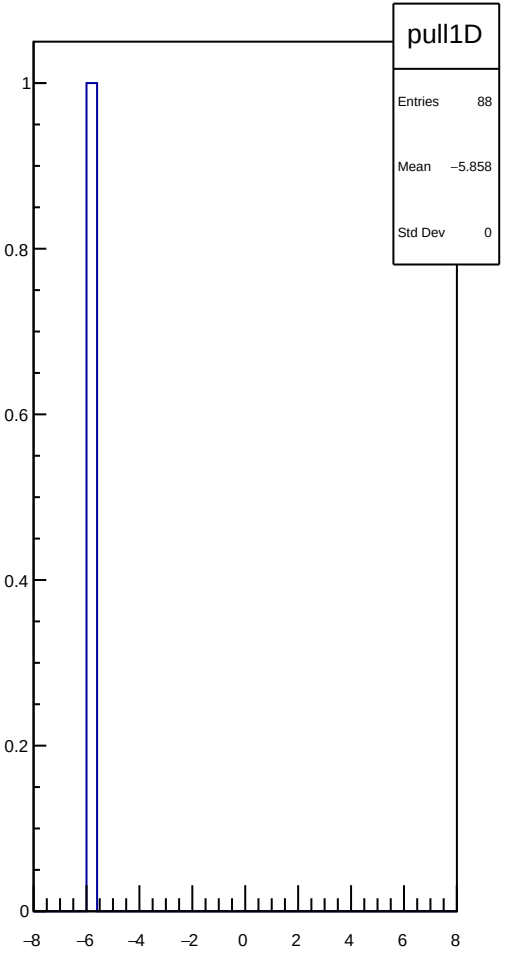

yield_bcm0l02_rms vs run
χ² / ndf 6.726e+05 / 87
p0 0.8305 ± 0.0008205
16
14
12
10
8
6
4
2

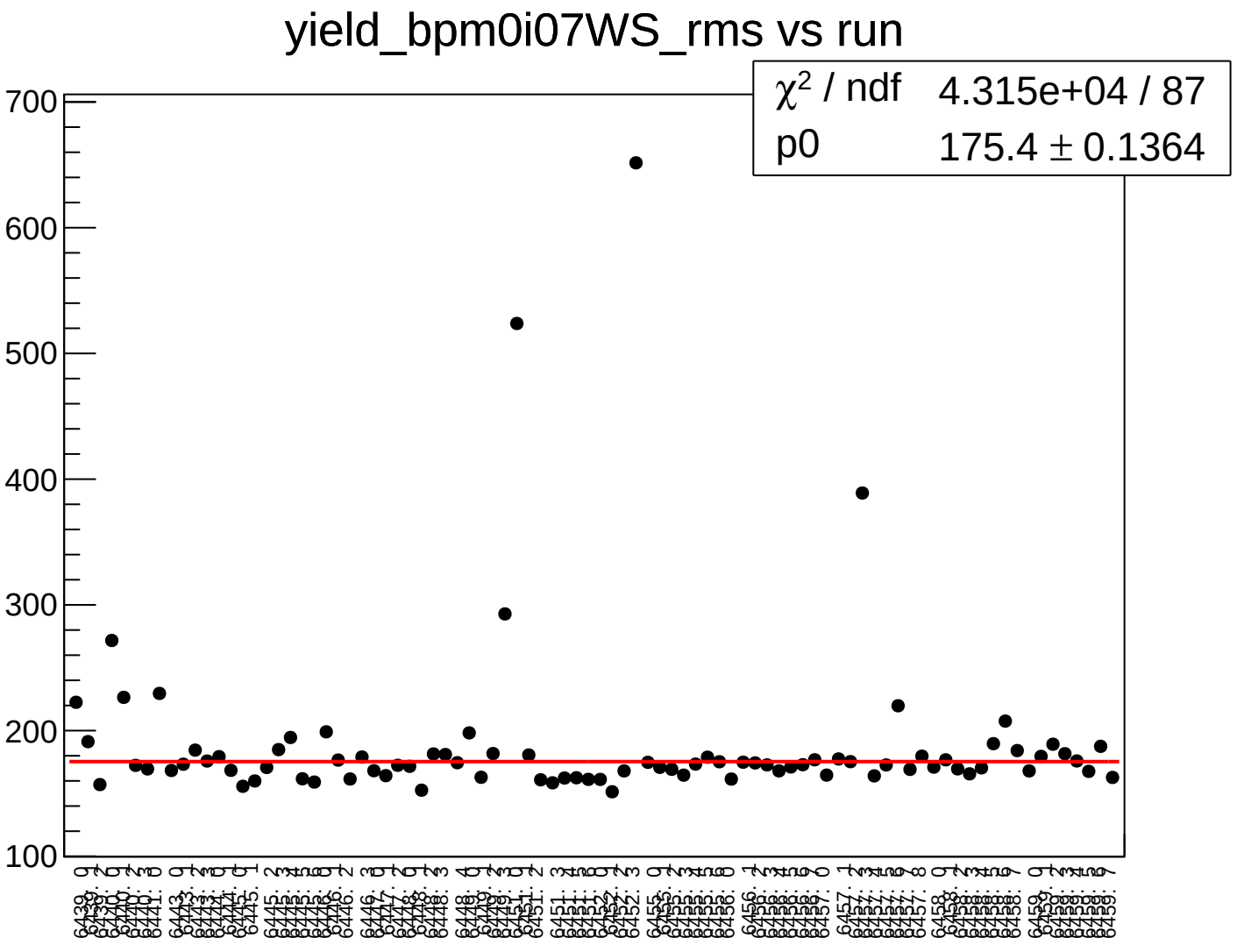

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.705e+04 / 87
p0 1.298e+05 ± 0.1802
129.9
129.85
129.8
129.75
129.7
129.65
pull
Entries 88
Mean 327.2
Std Dev 261.5
40
30
20
10
0
−10
−20
−30

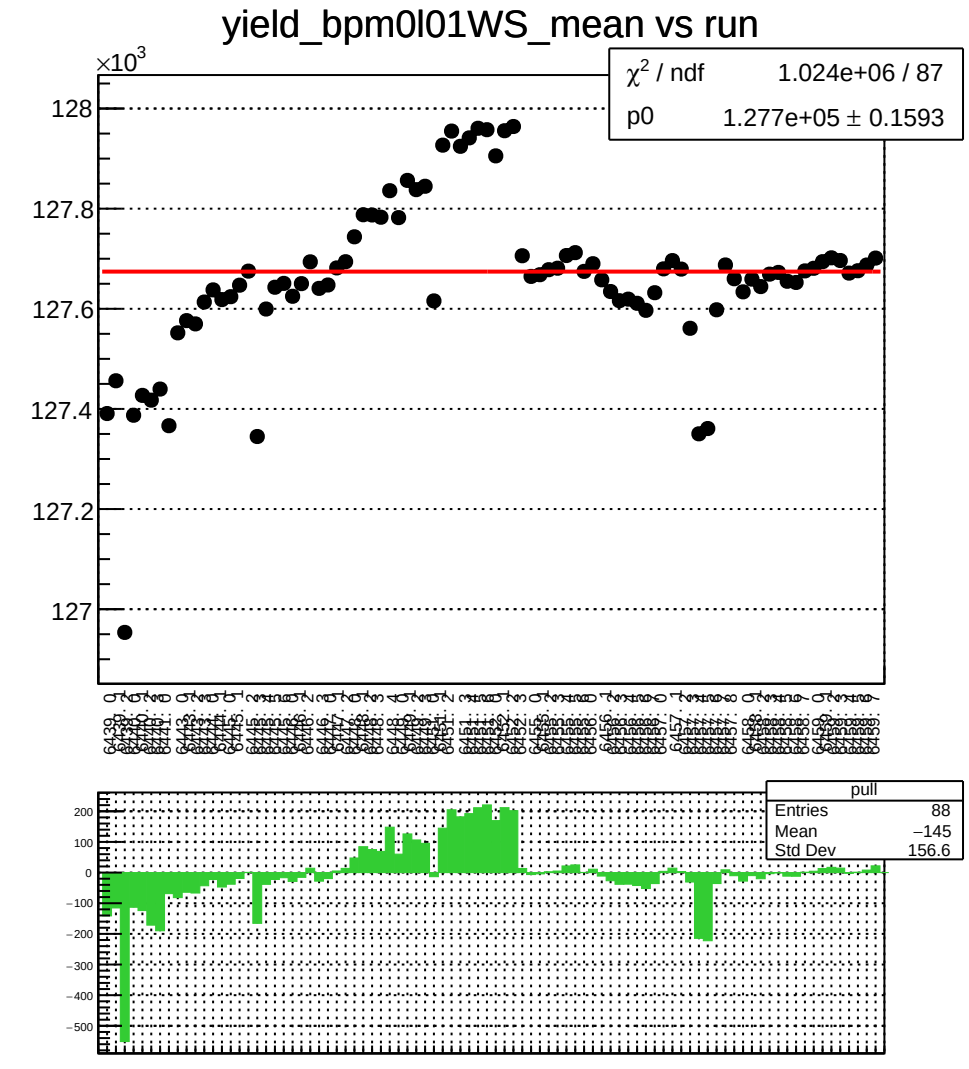

pull1D
Entries 88
Mean 0.7429
Std Dev 4.63
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

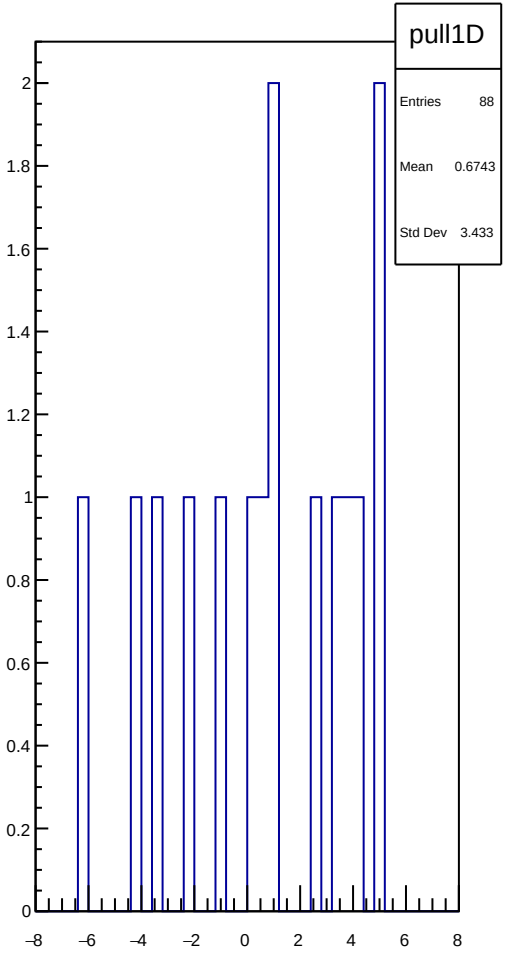

yield_bpm2i01WS_rms vs run
χ² / ndf 3.97e+04 / 87
p0 164 ± 0.1274
900
800
700
600
500
400
300
200
100

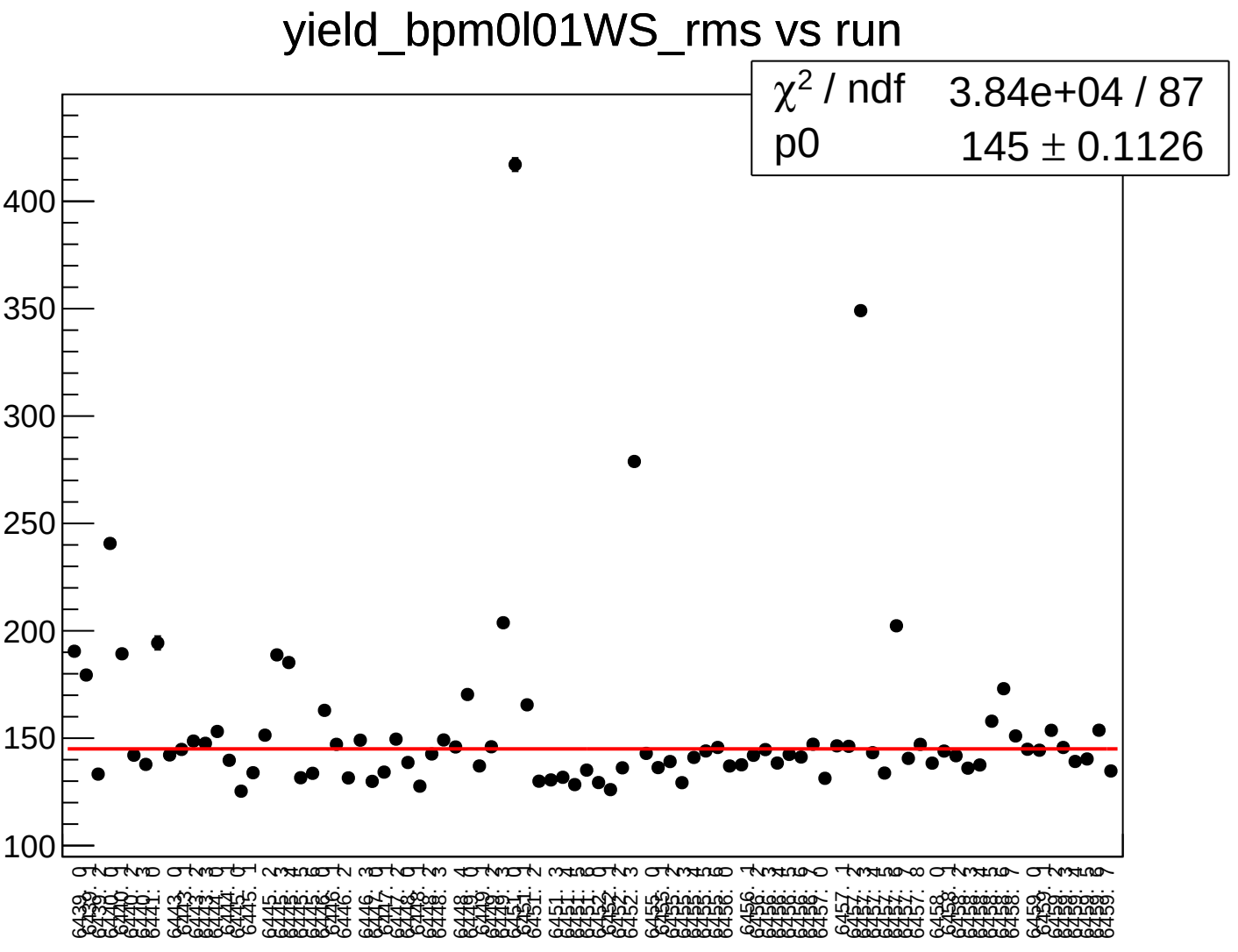

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.931e+06 / 87
p0 1.496e+05 ± 0.1929
150
149.8
149.6
149.4
149.2
149
148.8
148.6
pull
Entries 88
Mean −1025
Std Dev 1065
200
100
0
−100
−200
−300
−400
−500

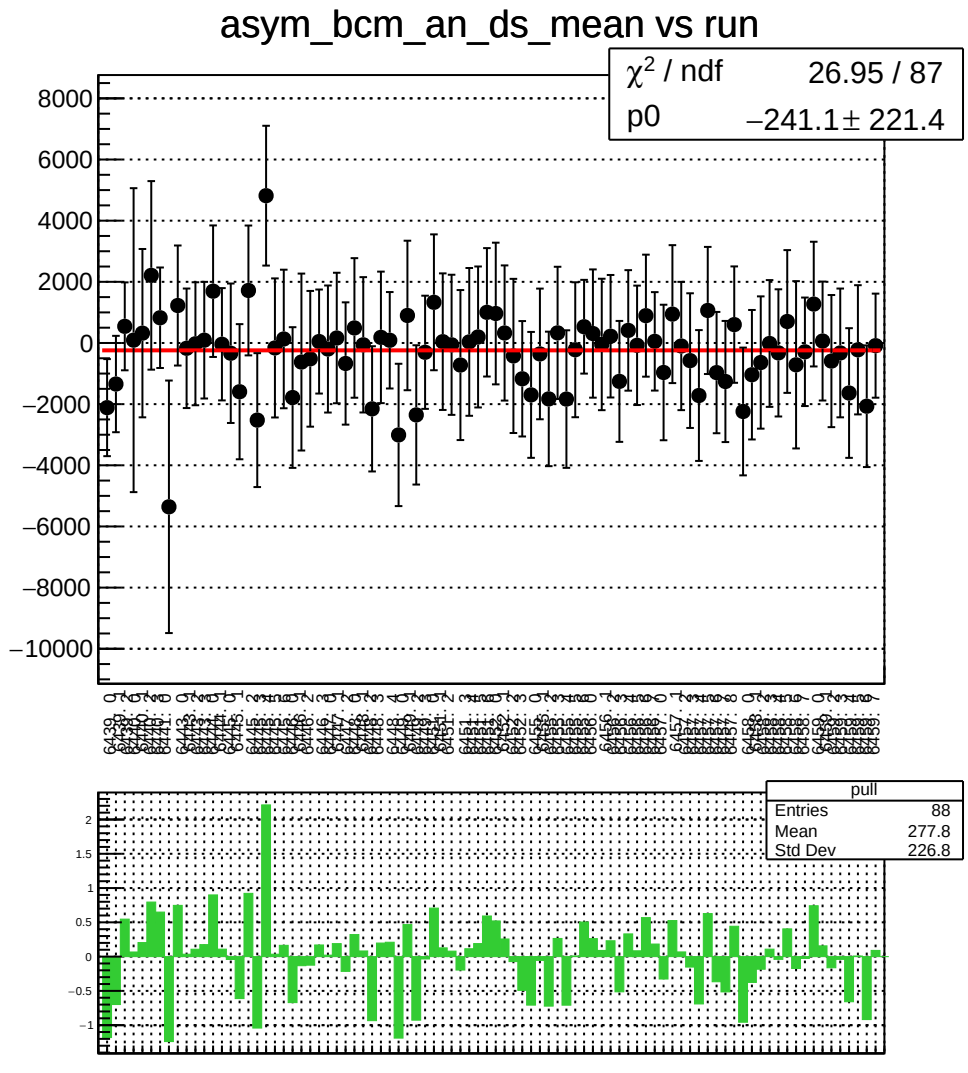

pull1D
Entries 88
Mean −5.858
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

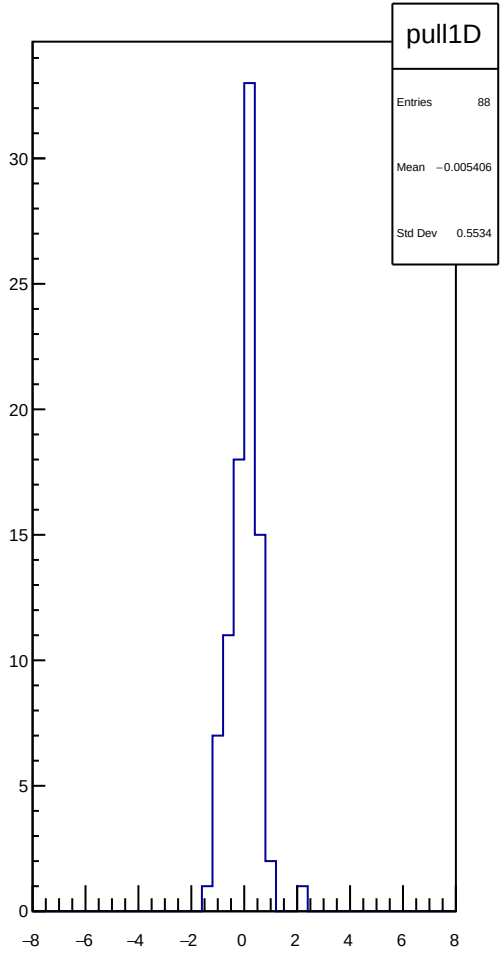

yield_bpm0i07WS_rms vs run
χ² / ndf 4.315e+04 / 87
p0 175.4 ± 0.1364
700
600
500
400
300
200
100

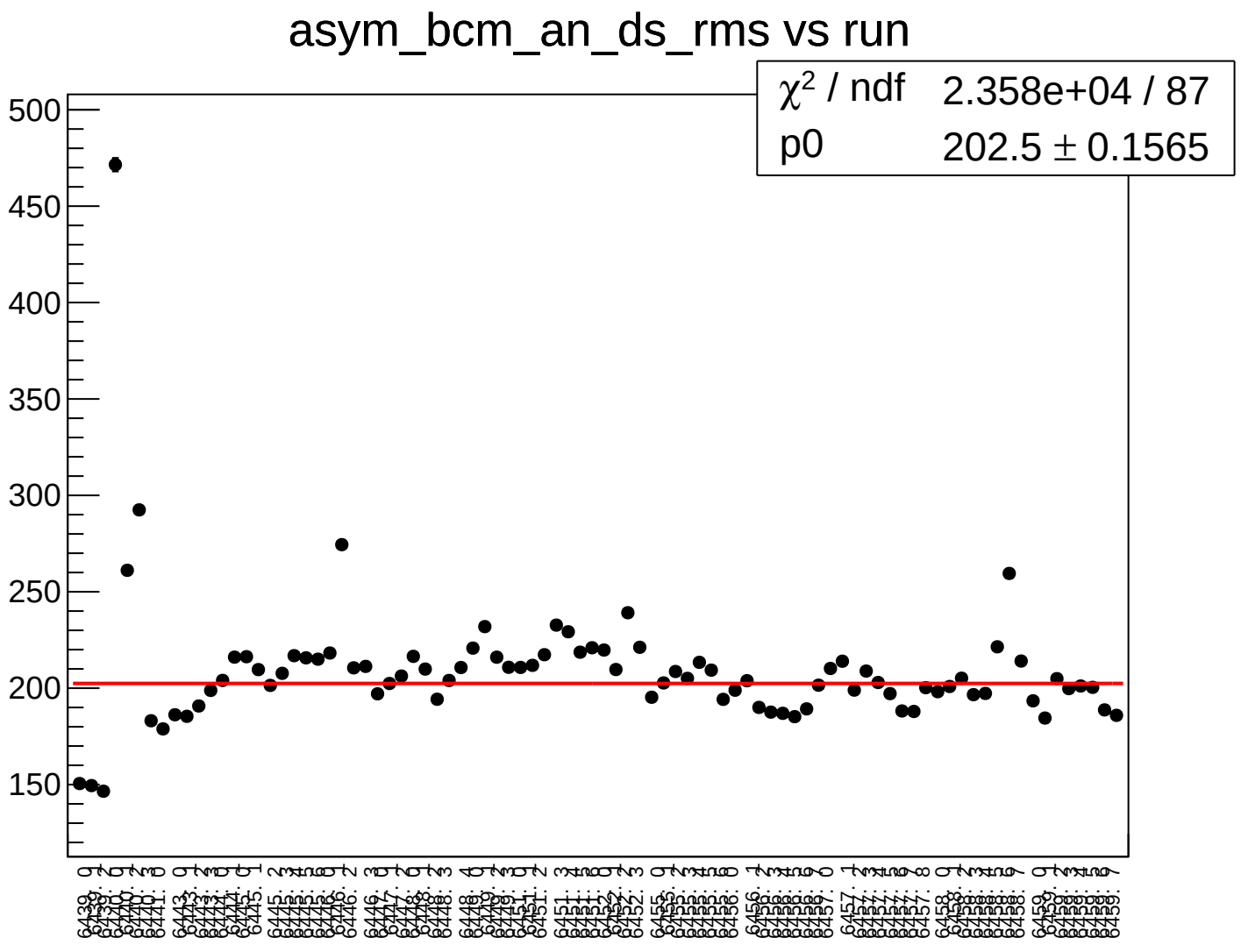

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.024e+06 / 87
p0 1.277e+05 ± 0.1593
128
127.8
127.6
127.4
127.2
127
pull
Entries 88
Mean −145
Std Dev 156.6
200
100
0
−100
−200
−300
−400
−500

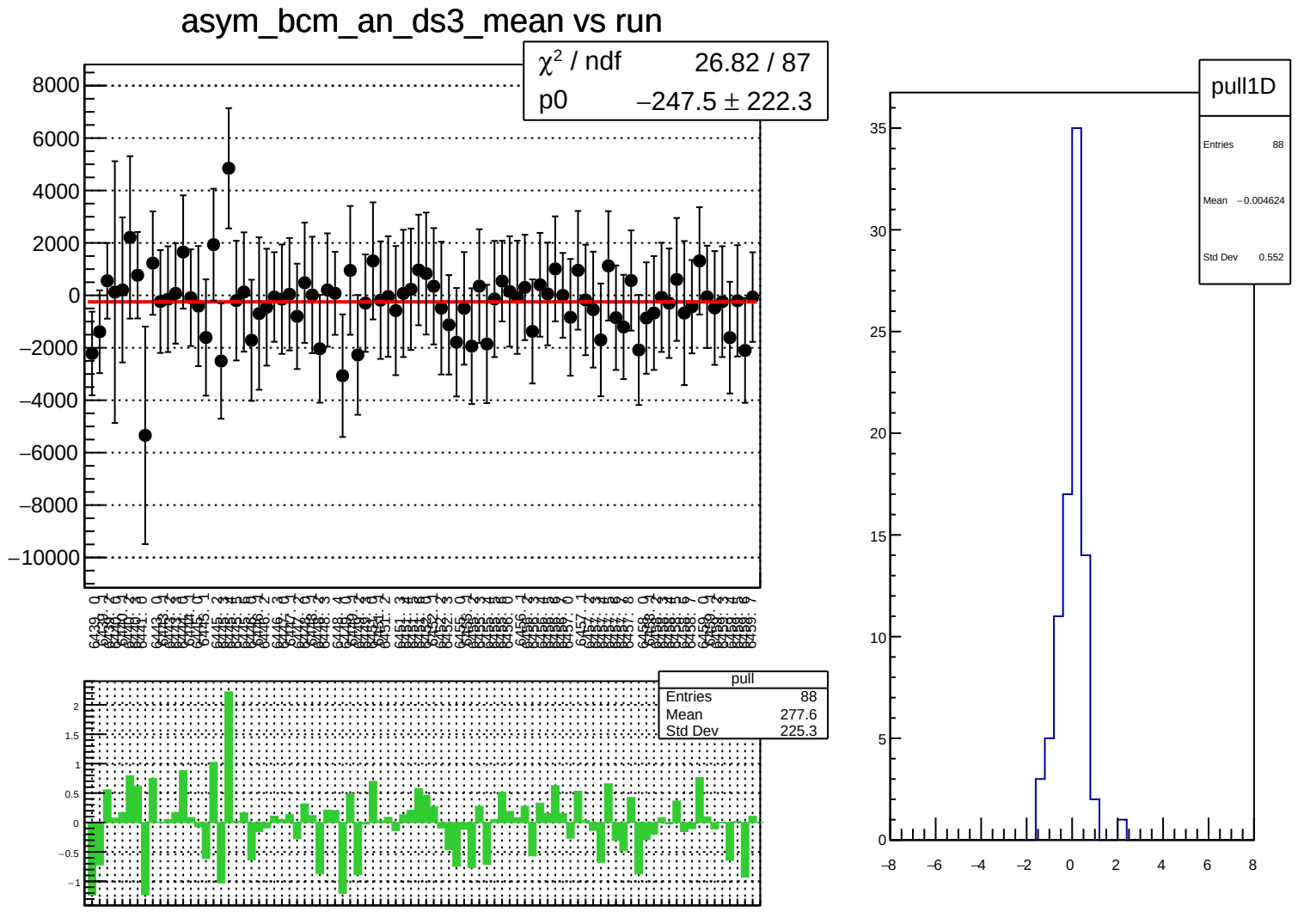

pull1D
Entries 88
Mean 0.6743
Std Dev 3.433
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

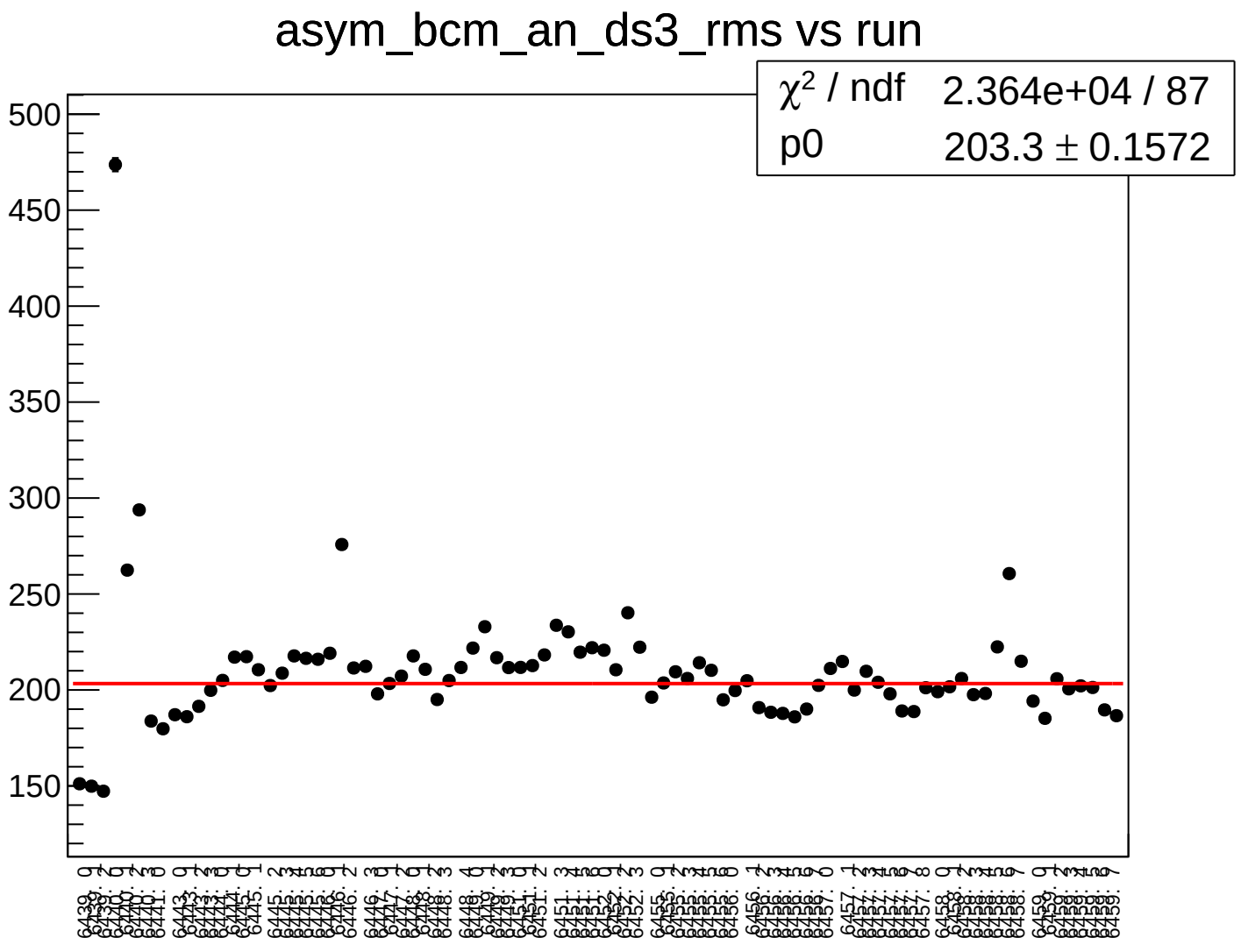

yield_bpm0l01WS_rms vs run
χ² / ndf 3.84e+04 / 87
p0 145 ± 0.1126
400
350
300
250
200
150
100

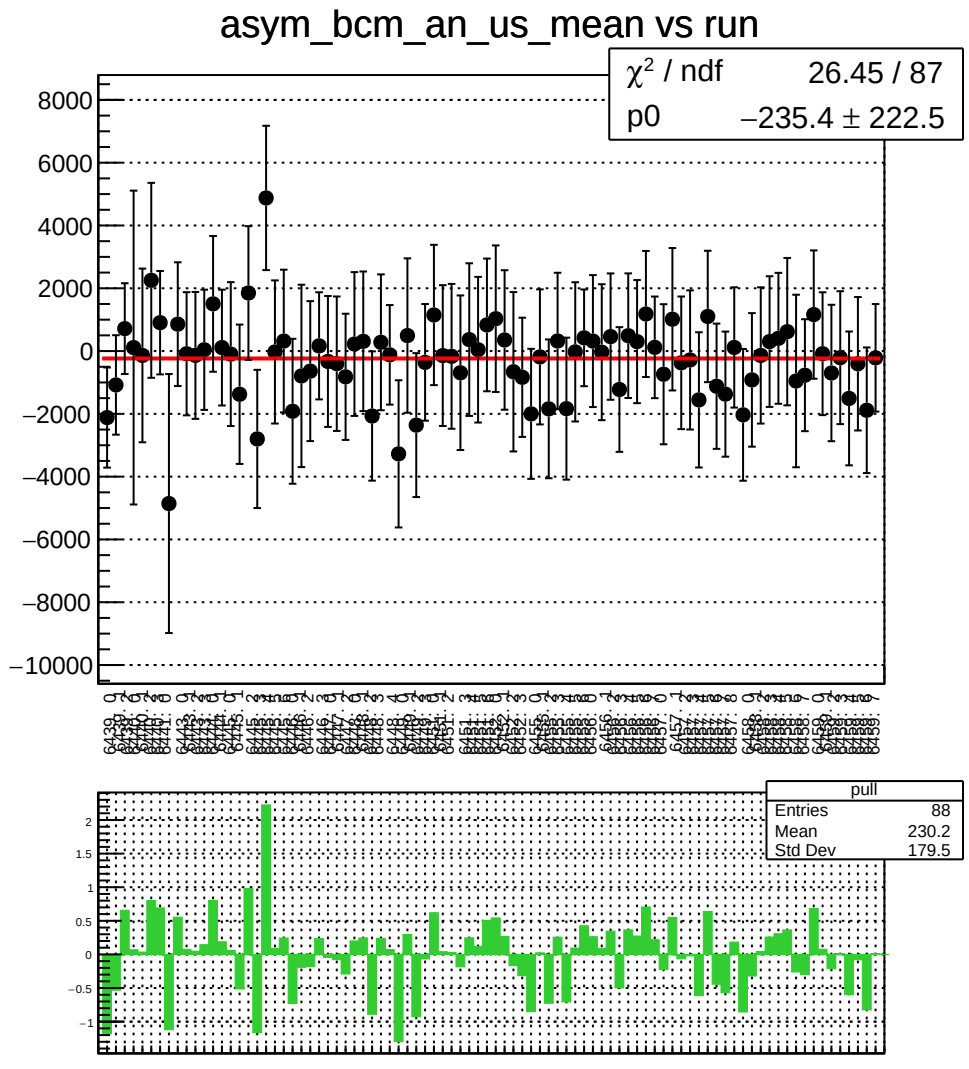

asym_bcm_an_ds_mean vs run
χ² / ndf 26.95 / 87
p0 −241.1 ± 221.4
pull
Entries 88
Mean 277.8
Std Dev 226.8

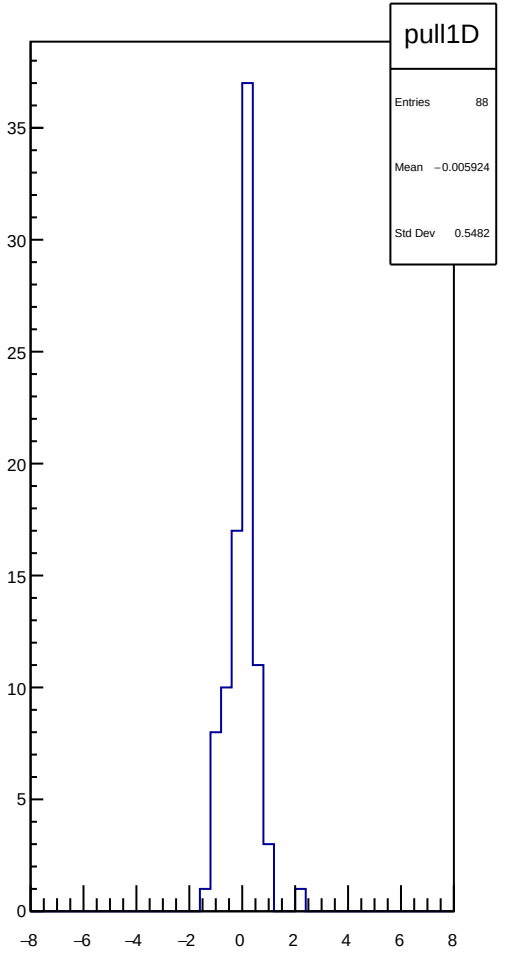

pull1D
Entries 88
Mean −0.005406
Std Dev 0.5534

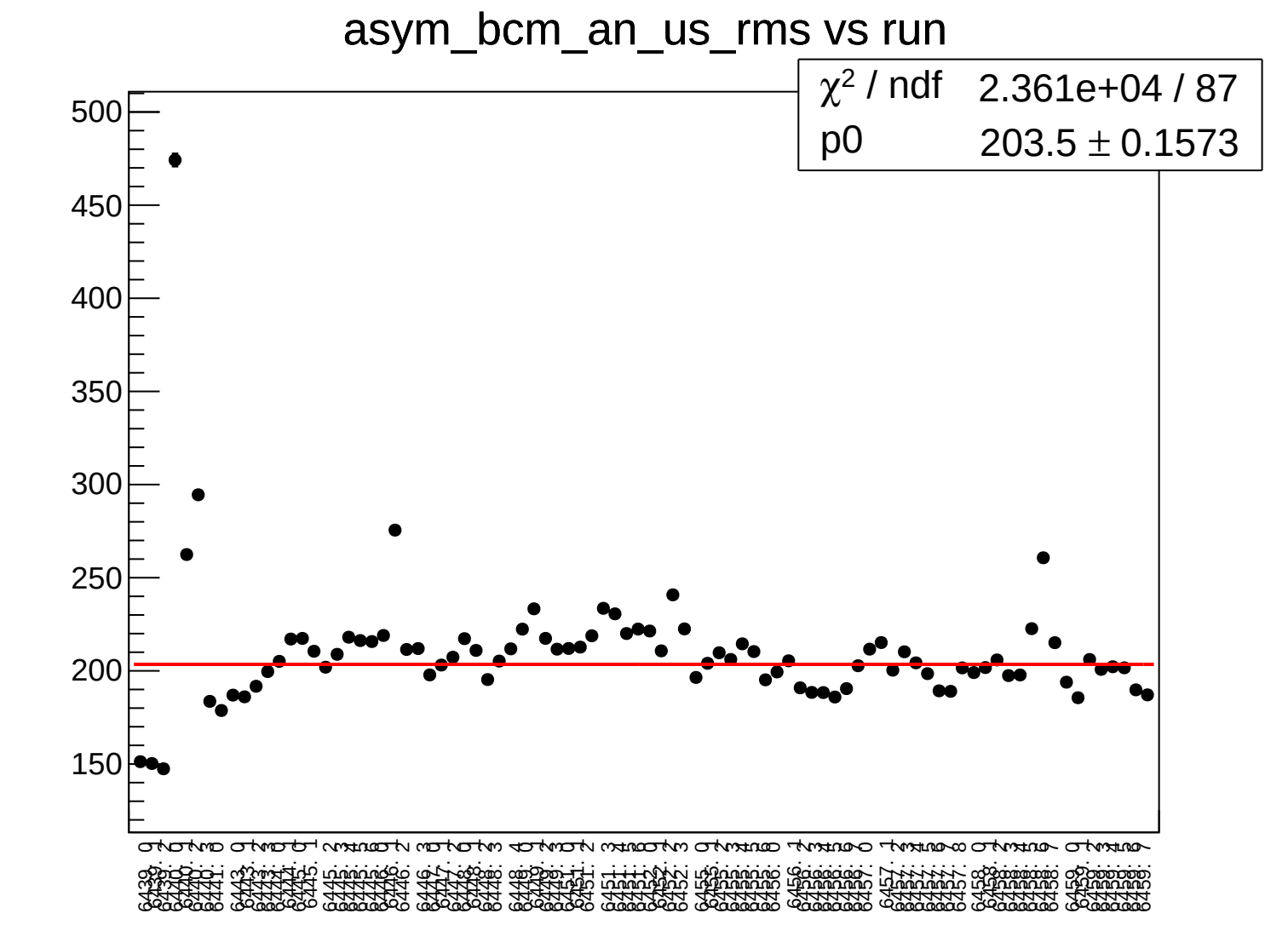

asym_bcm_an_ds_rms vs run
χ² / ndf 2.358e+04 / 87
p0 202.5 ± 0.1565
500
450
400
350
300
250
200
150

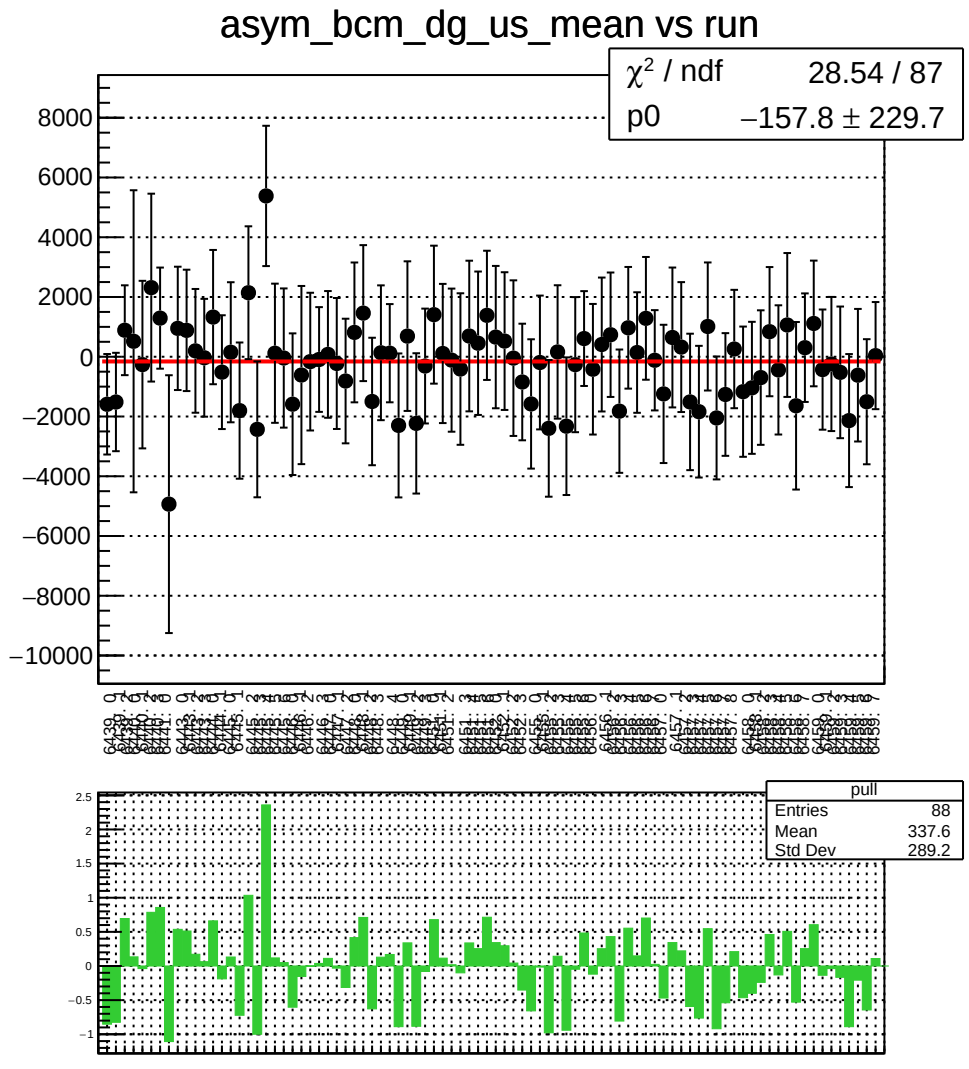

asym_bcm_an_ds3_mean vs run
χ² / ndf 26.82 / 87
p0 −247.5 ± 222.3
pull
Entries 88
Mean 277.6
Std Dev 225.3
pull1D
Entries 88
Mean −0.004624
Std Dev 0.552

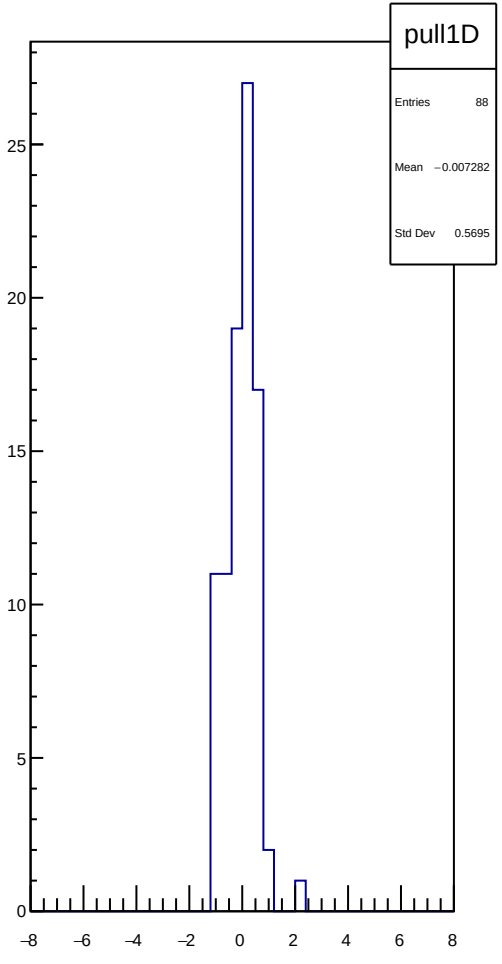

asym_bcm_an_ds3_rms vs run
χ² / ndf 2.364e+04 / 87
p0 203.3 ± 0.1572
500
450
400
350
300
250
200
150

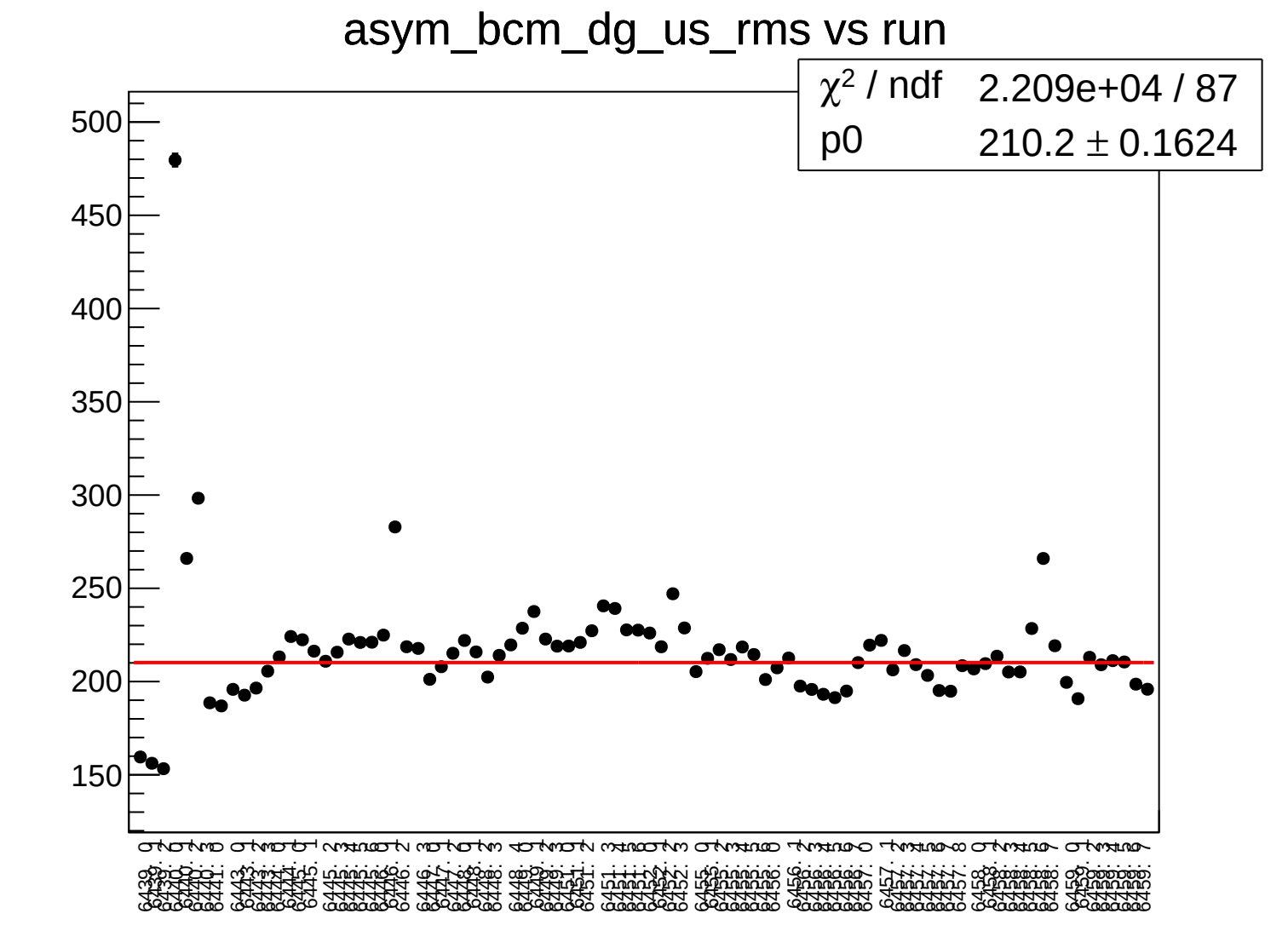

asym_bcm_an_us_mean vs run
χ² / ndf 26.45 / 87
p0 −235.4 ± 222.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 88
Mean 230.2
Std Dev 179.5
2
1.5
1
0.5
0
−0.5
−1

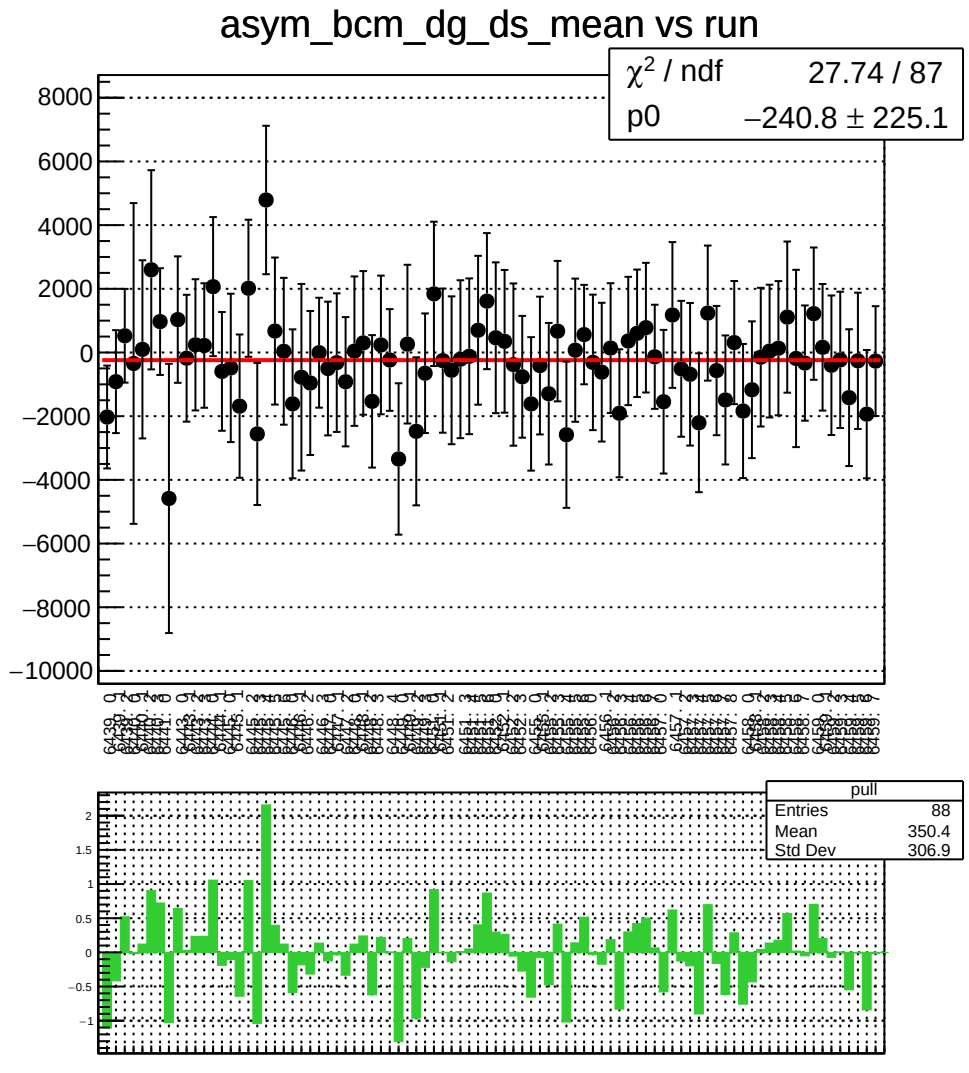

pull1D
Entries 88
Mean −0.005924
Std Dev 0.5482
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

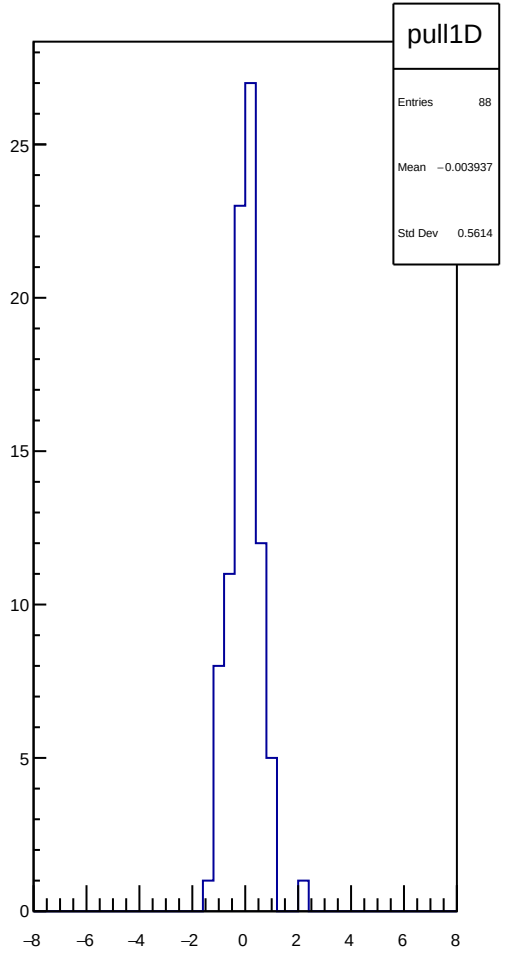

asym_bcm_an_us_rms vs run
χ² / ndf 2.361e+04 / 87
p0 203.5 ± 0.1573
500
450
400
350
300
250
200
150

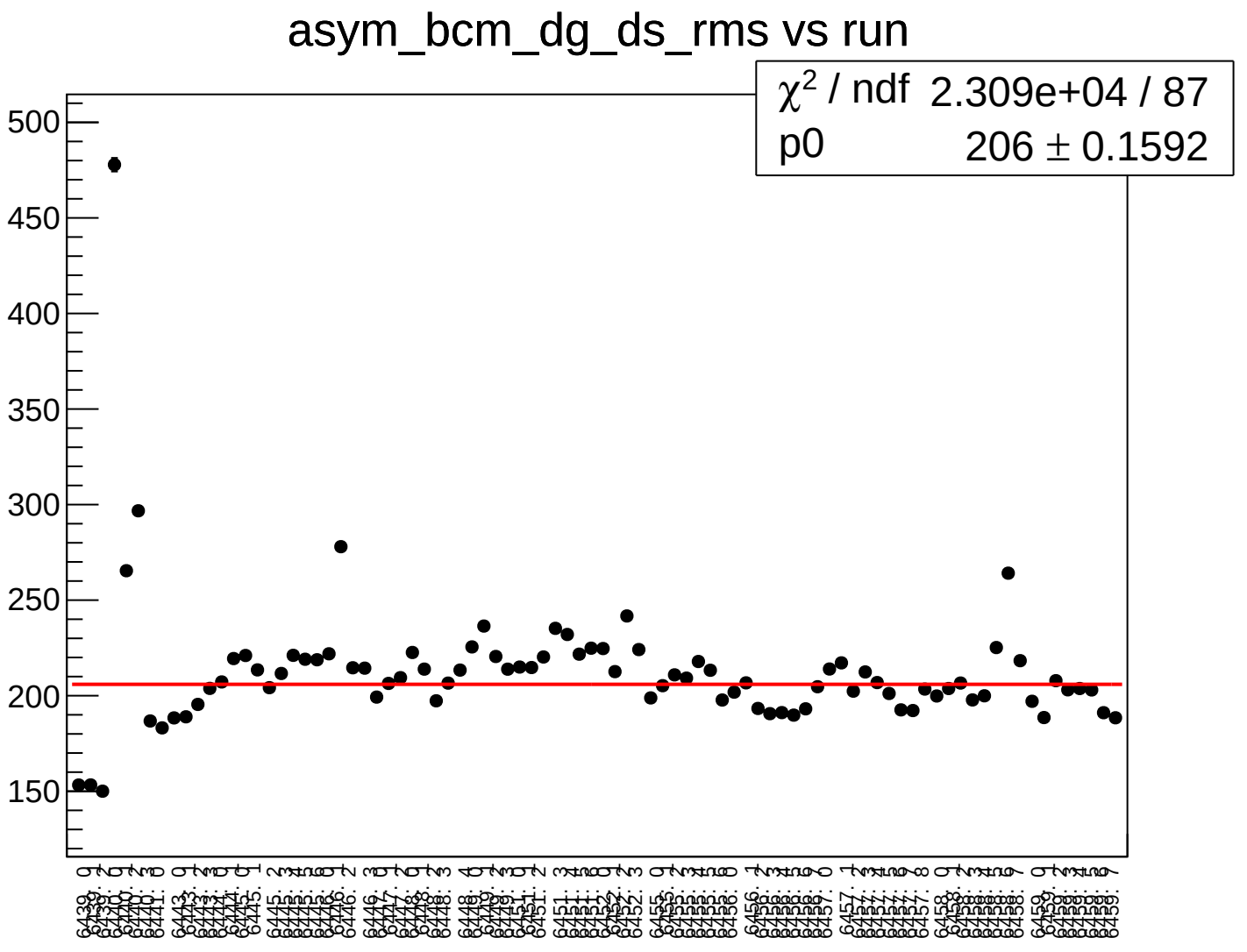

asym_bcm_dg_us_mean vs run
χ² / ndf 28.54 / 87
p0 −157.8 ± 229.7
pull
Entries 88
Mean 337.6
Std Dev 289.2

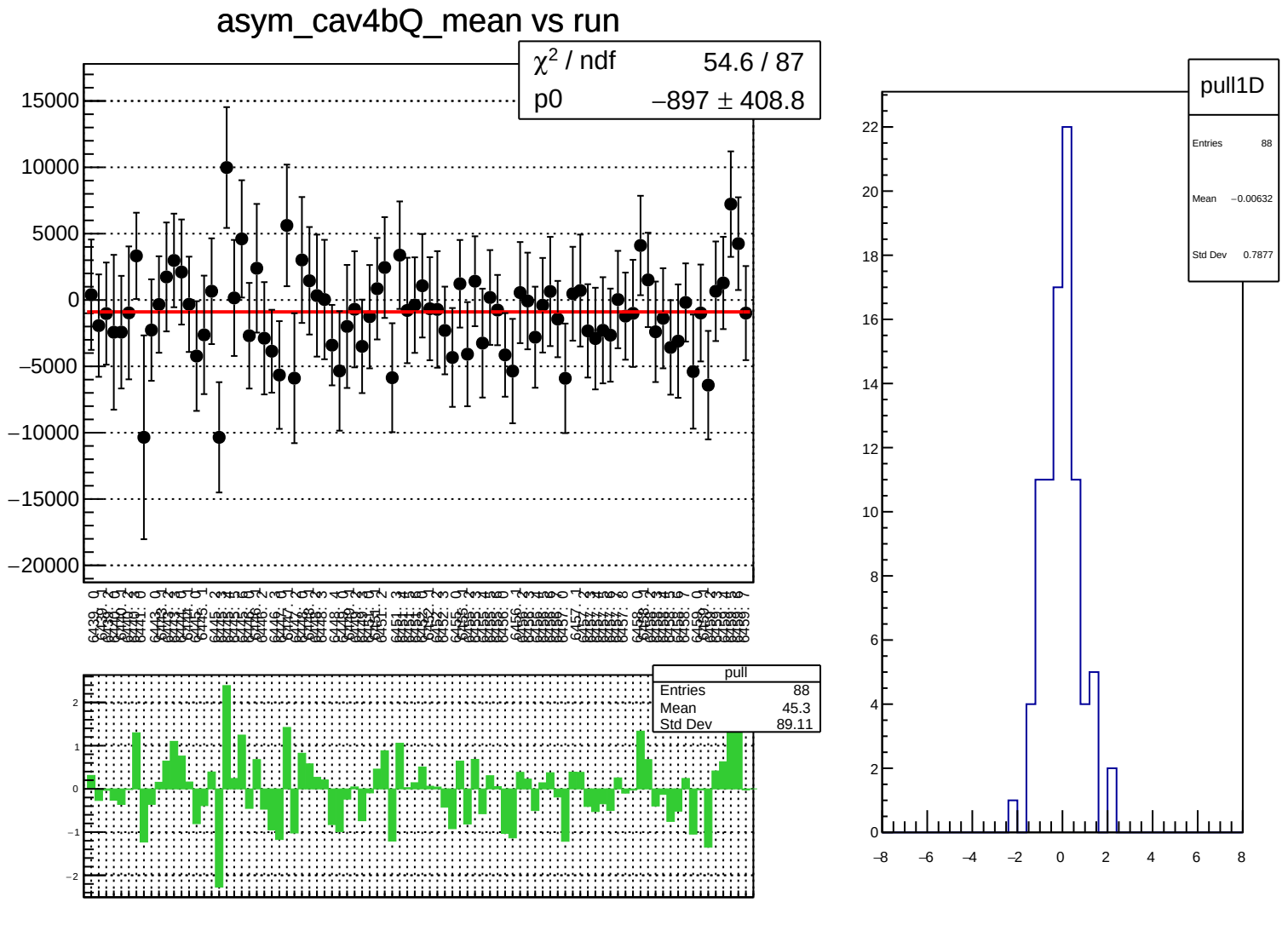

pull1D
Entries 88
Mean −0.007282
Std Dev 0.5695

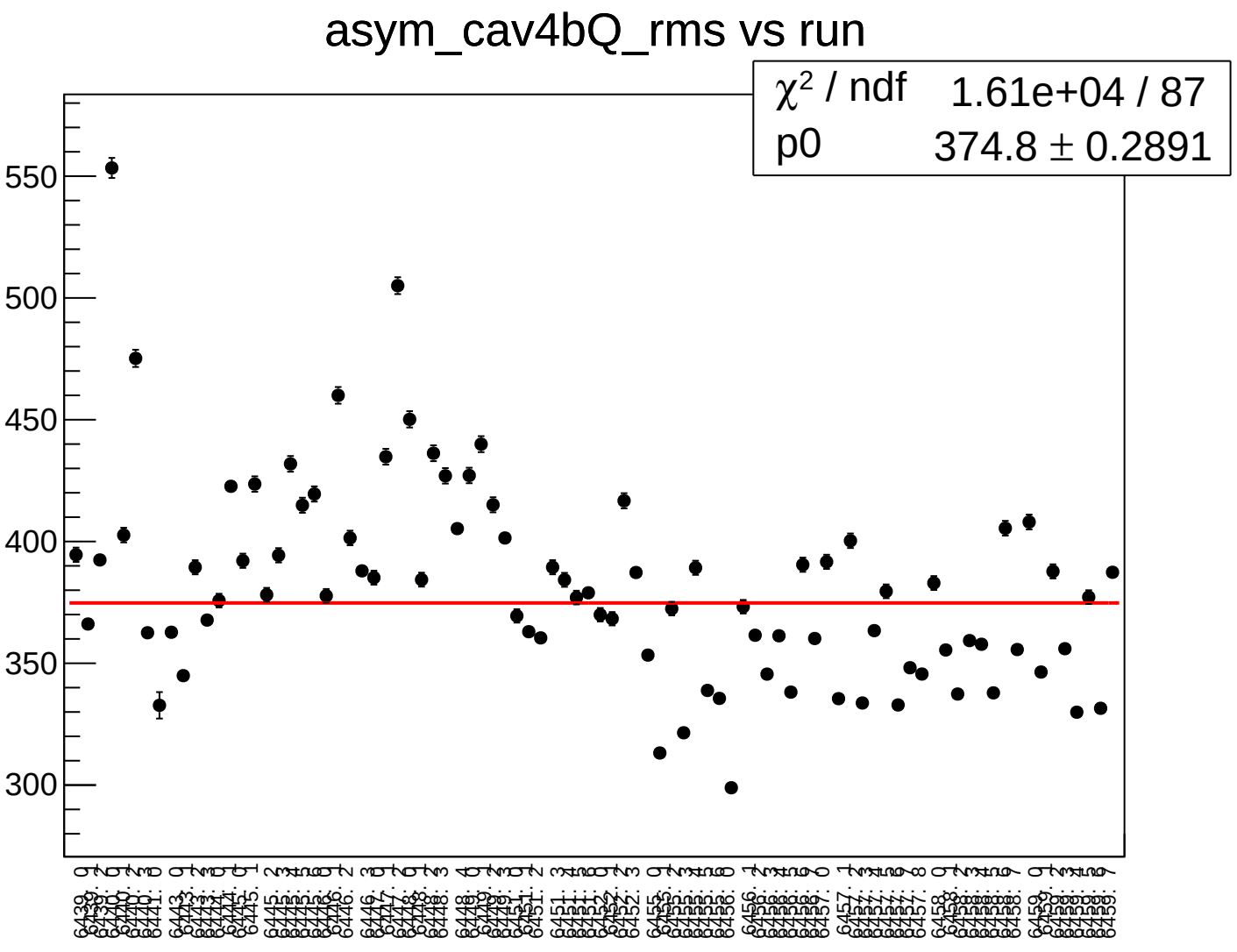

asym_bcm_dg_us_rms vs run
χ² / ndf 2.209e+04 / 87
p0 210.2 ± 0.1624
500
450
400
350
300
250
200
150

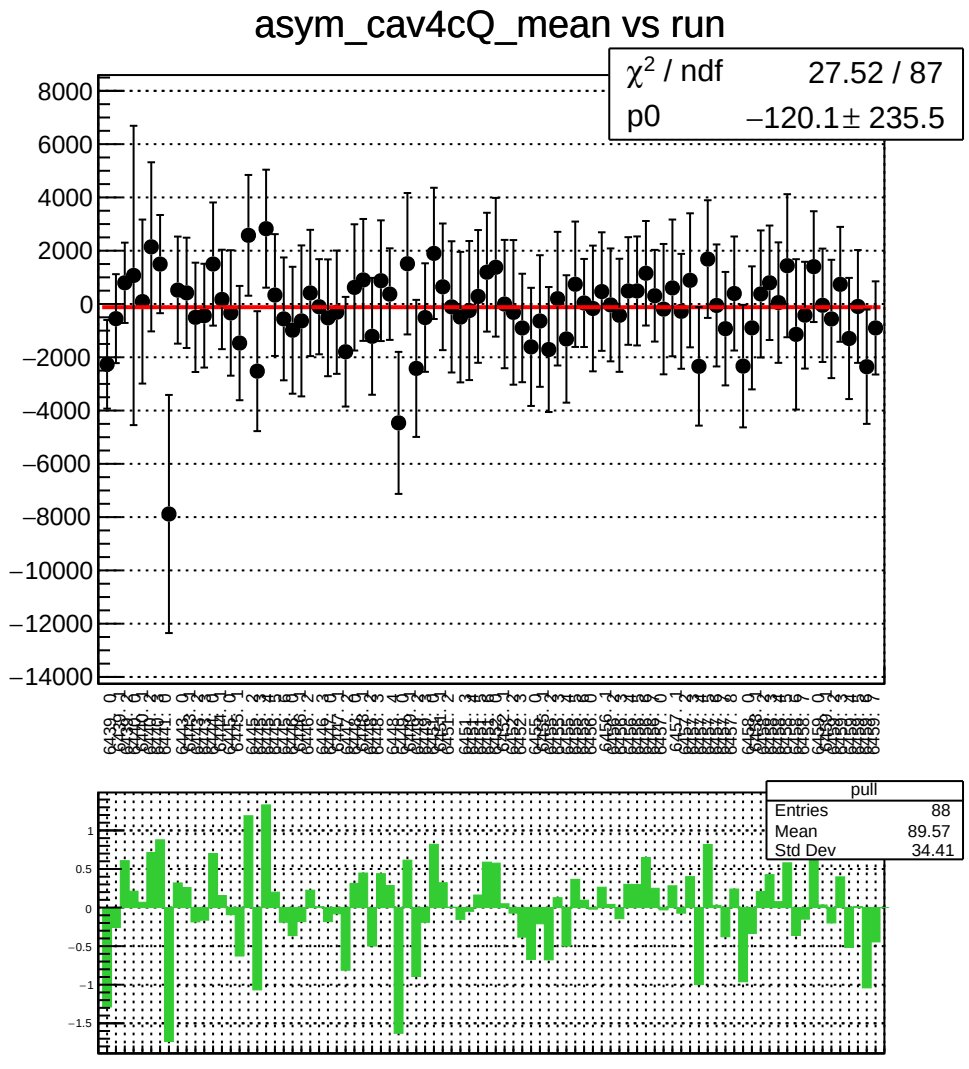

asym_bcm_dg_ds_mean vs run
χ² / ndf 27.74 / 87
p0 −240.8 ± 225.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 88
Mean 350.4
Std Dev 306.9
2
1.5
1
0.5
0
−0.5
−1

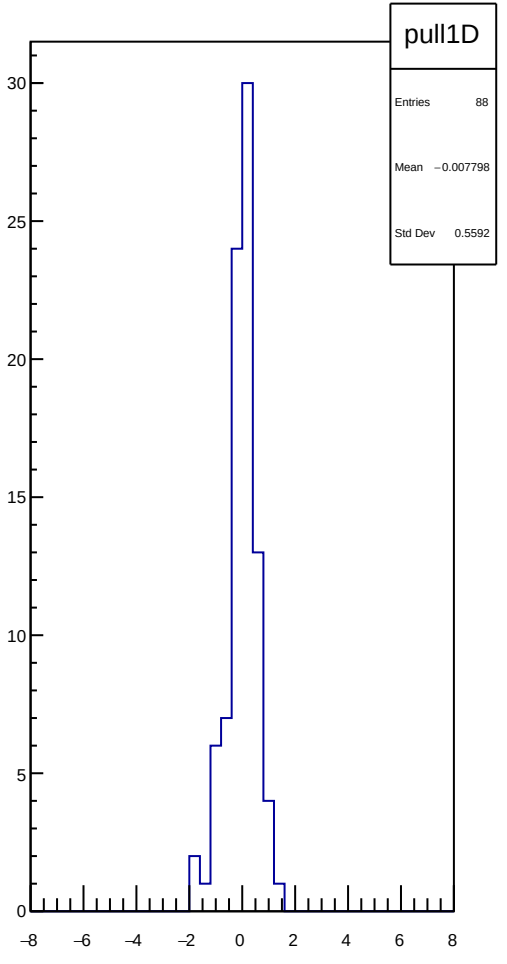

pull1D
Entries 88
Mean −0.003937
Std Dev 0.5614
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

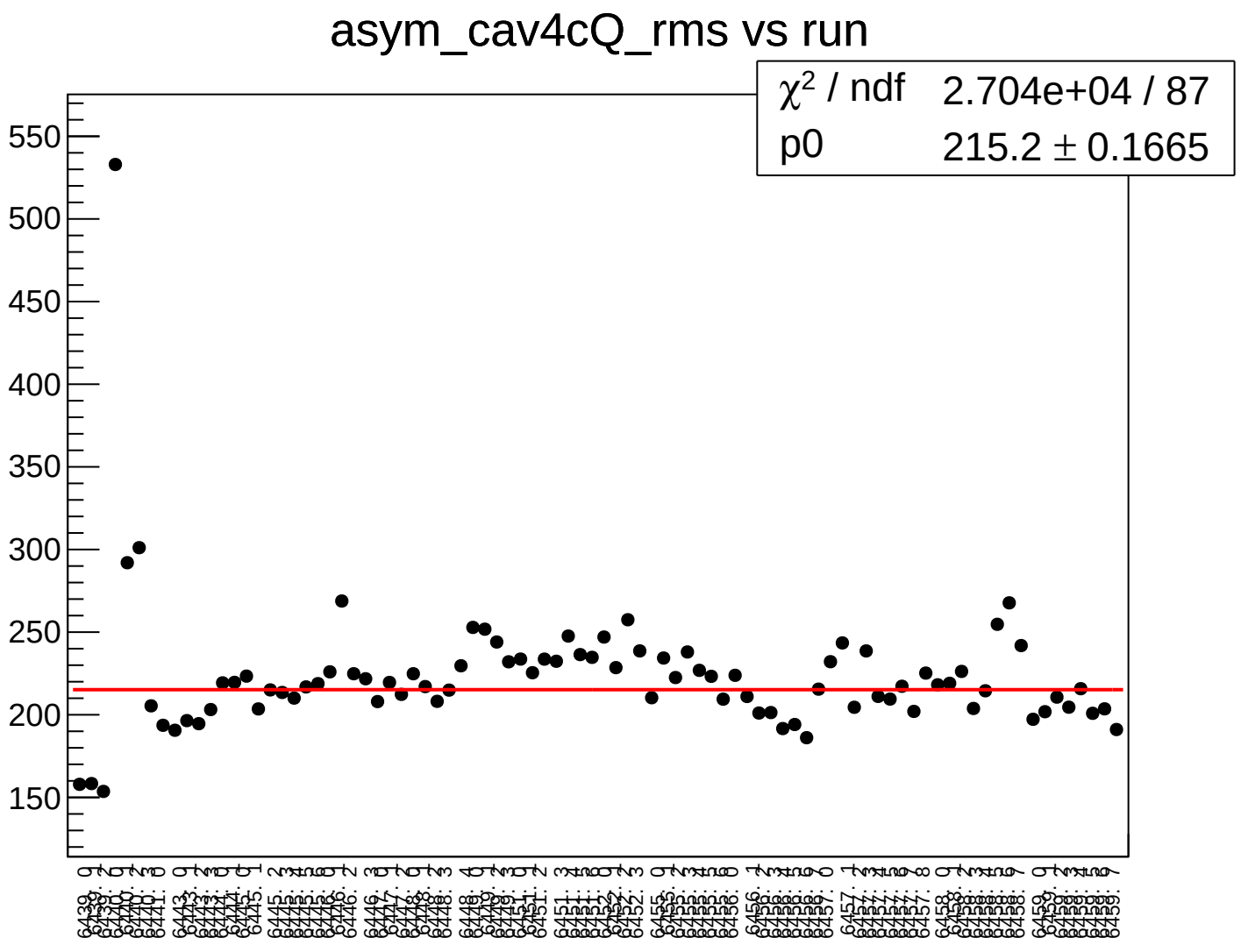

asym_bcm_dg_ds_rms vs run
χ² / ndf 2.309e+04 / 87
p0 206 ± 0.1592
500
450
400
350
300
250
200
150

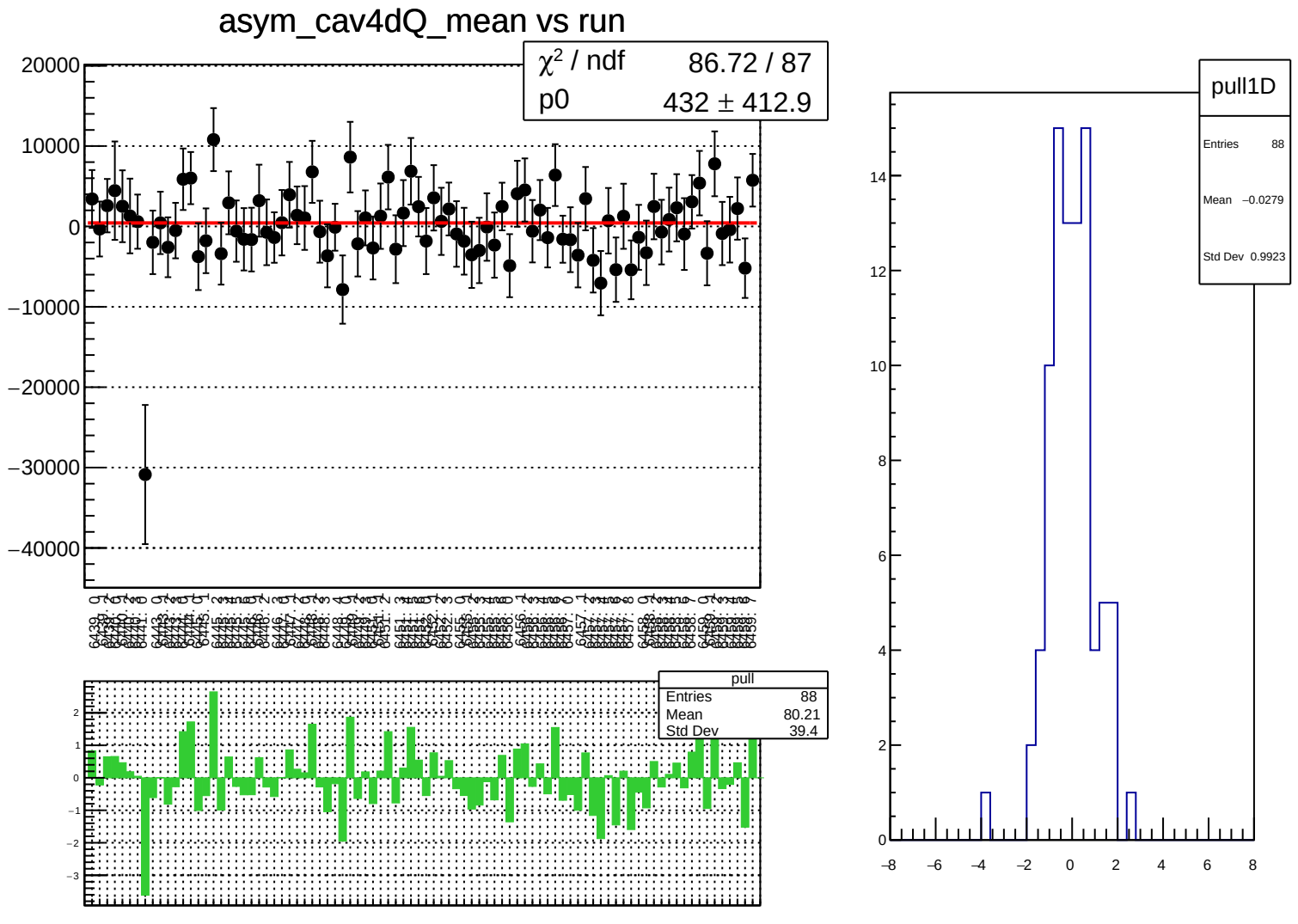

asym_cav4bQ_mean vs run
χ² / ndf 54.6 / 87
p0 −897 ± 408.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 45.3
Std Dev 89.11
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00632
Std Dev 0.7877
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

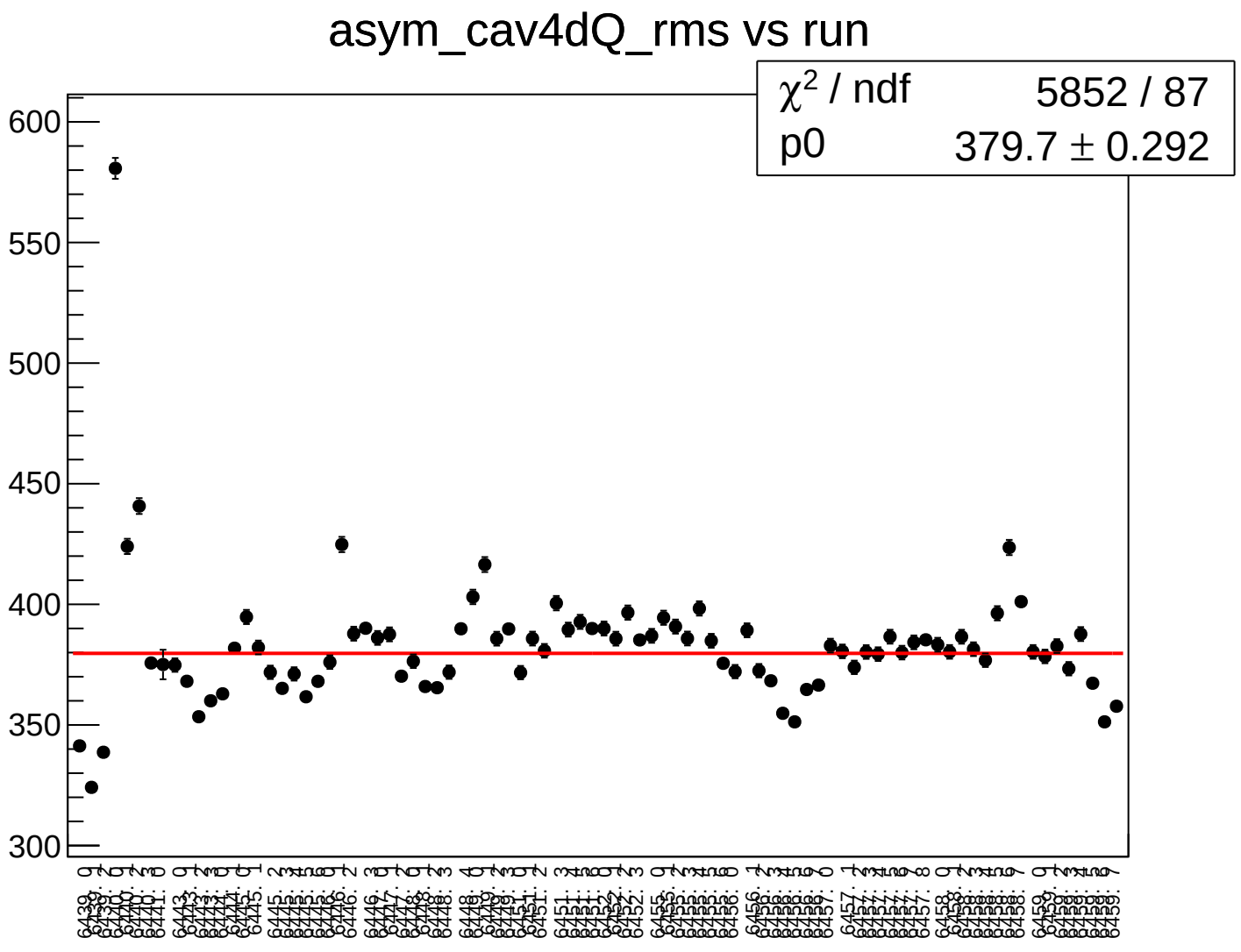

asym_cav4bQ_rms vs run
χ² / ndf 1.61e+04 / 87
p0 374.8 ± 0.2891
550
500
450
400
350
300

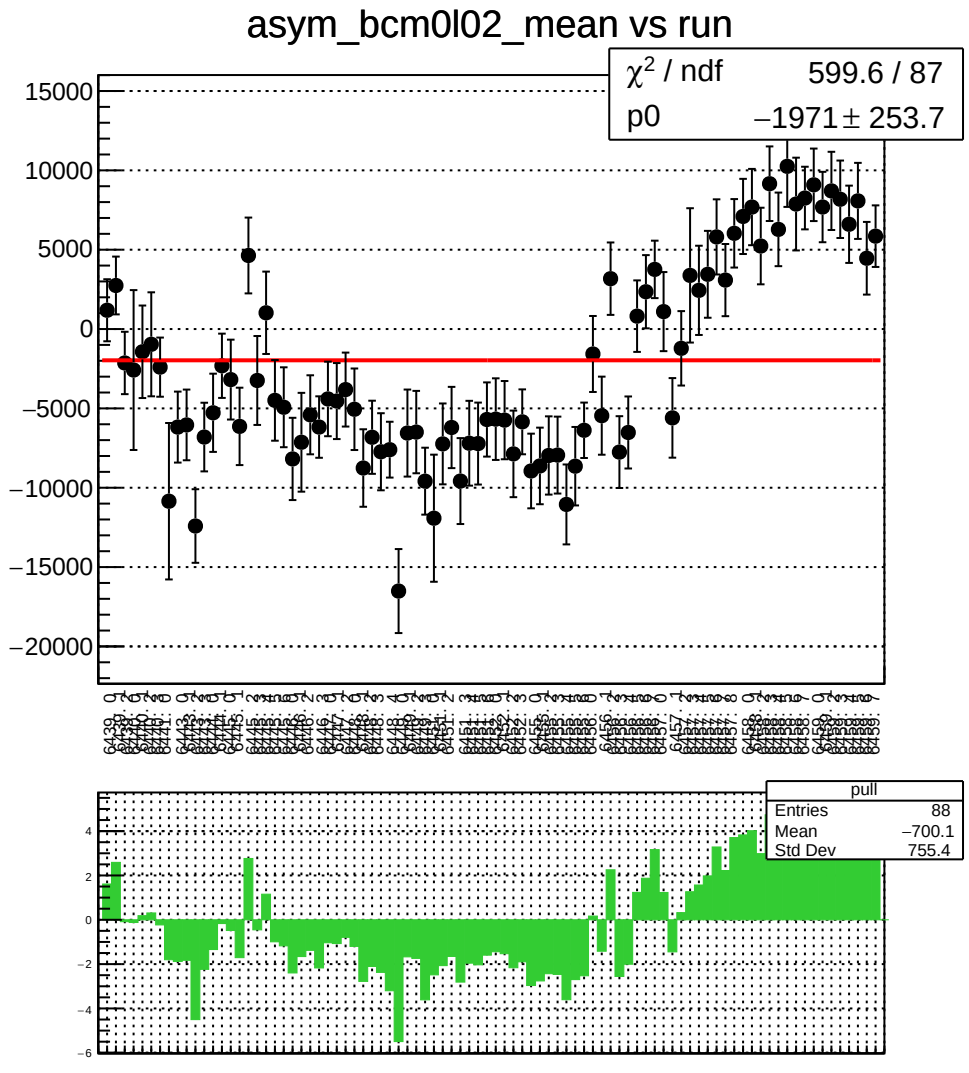

asym_cav4cQ_mean vs run
χ² / ndf 27.52 / 87
p0 −120.1± 235.5
pull
Entries 88
Mean 89.57
Std Dev 34.41

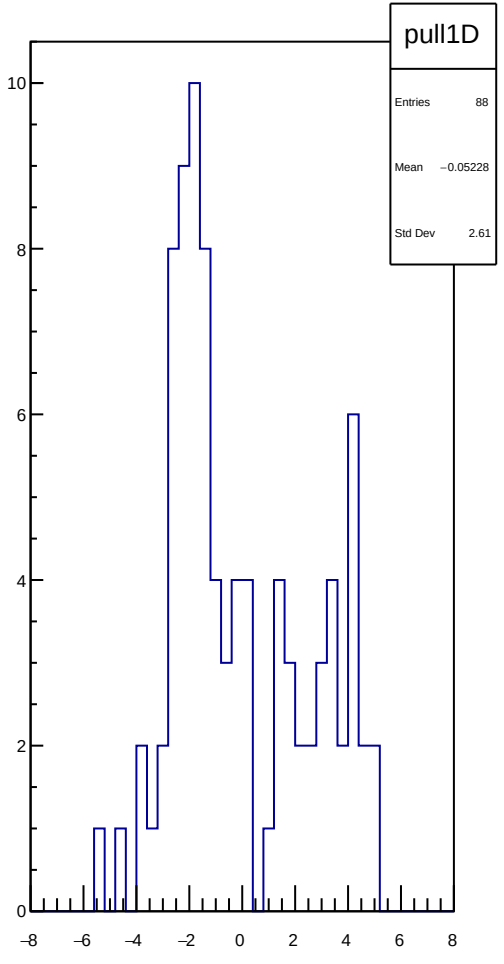

pull1D
Entries 88
Mean −0.007798
Std Dev 0.5592

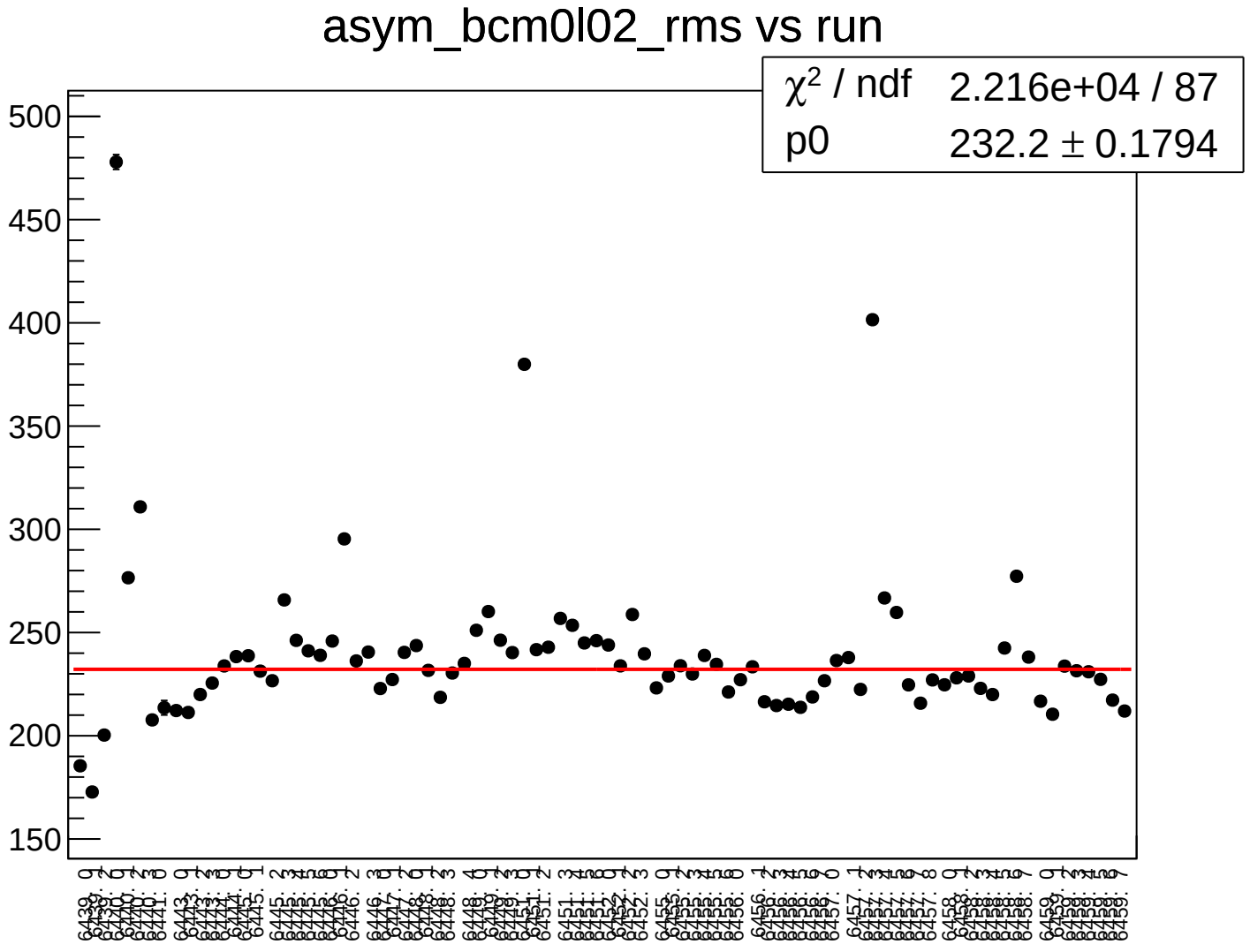

asym_cav4cQ_rms vs run
χ² / ndf 2.704e+04 / 87
p0 215.2 ± 0.1665
550
500
450
400
350
300
250
200
150

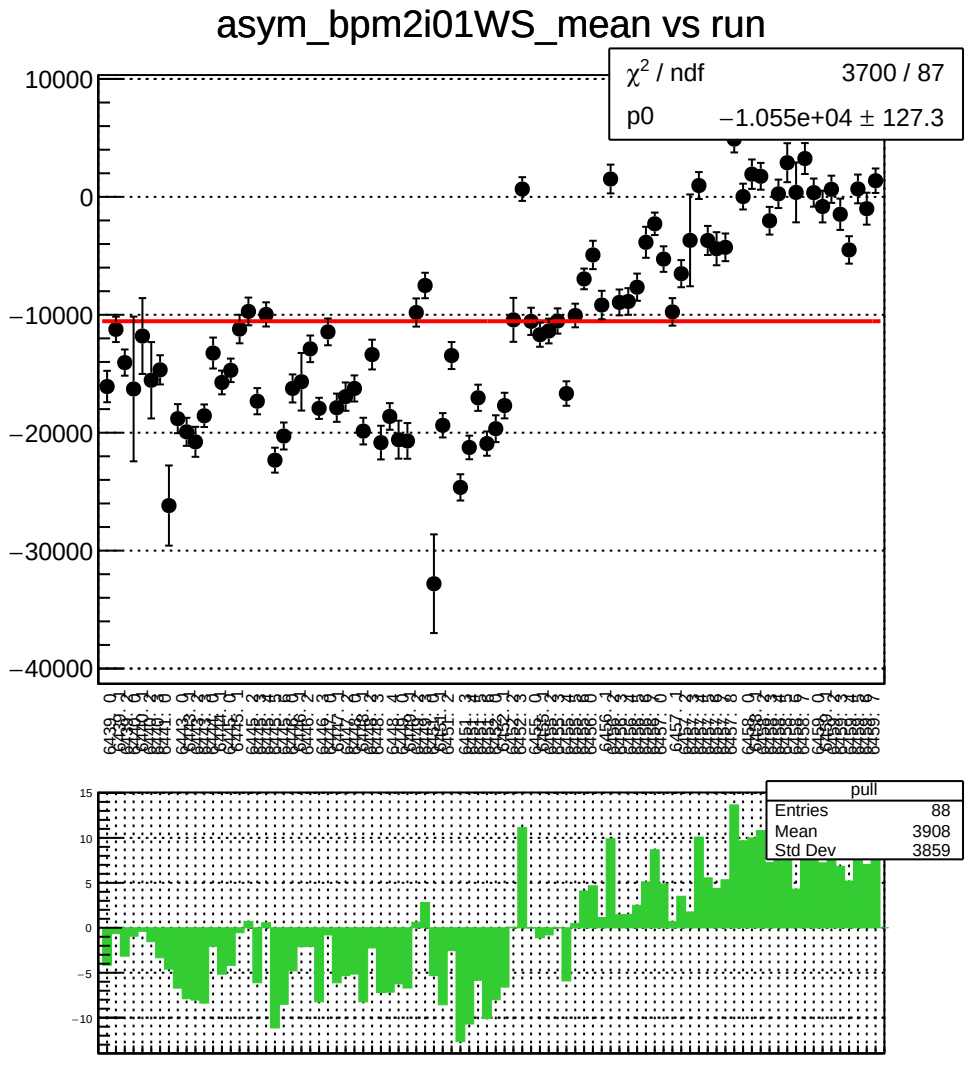

asym_cav4dQ_mean vs run
χ² / ndf 86.72 / 87
p0 432 ± 412.9
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 80.21
Std Dev 39.4
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.0279
Std Dev 0.9923
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

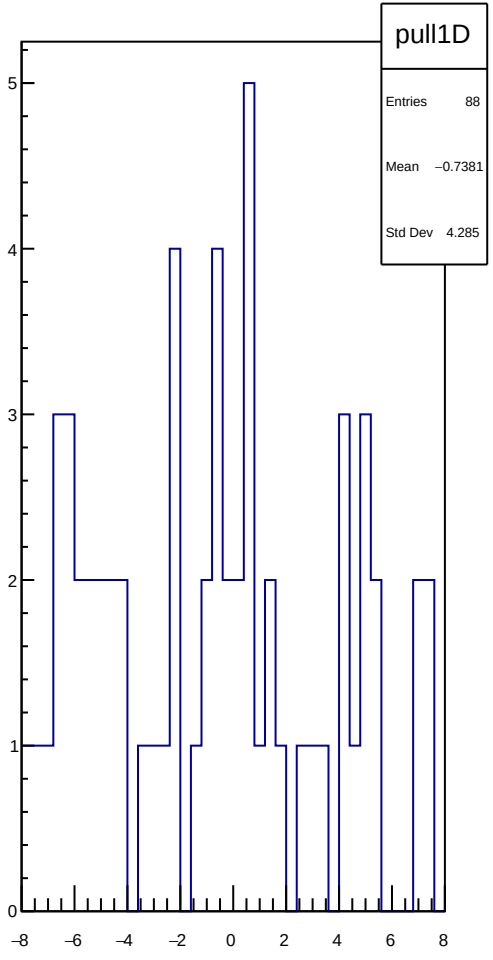

asym_cav4dQ_rms vs run
χ^2 / ndf 5852 / 87
p0 379.7 ± 0.292
600
550
500
450
400
350
300

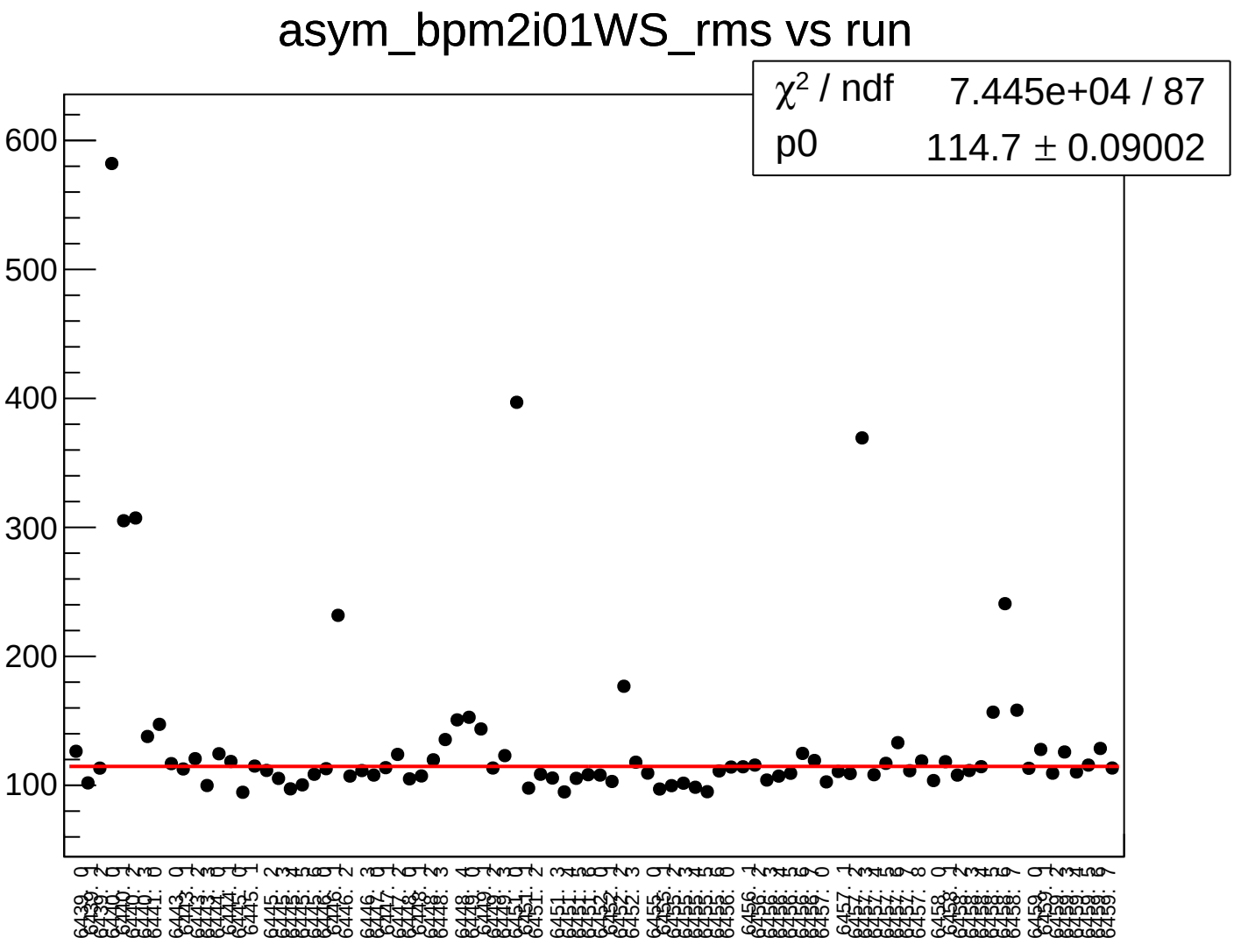

asym_bcm0l02_mean vs run
χ² / ndf 599.6 / 87
p0 −1971 ± 253.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean −700.1
Std Dev 755.4
4
2
0
−2
−4
−6

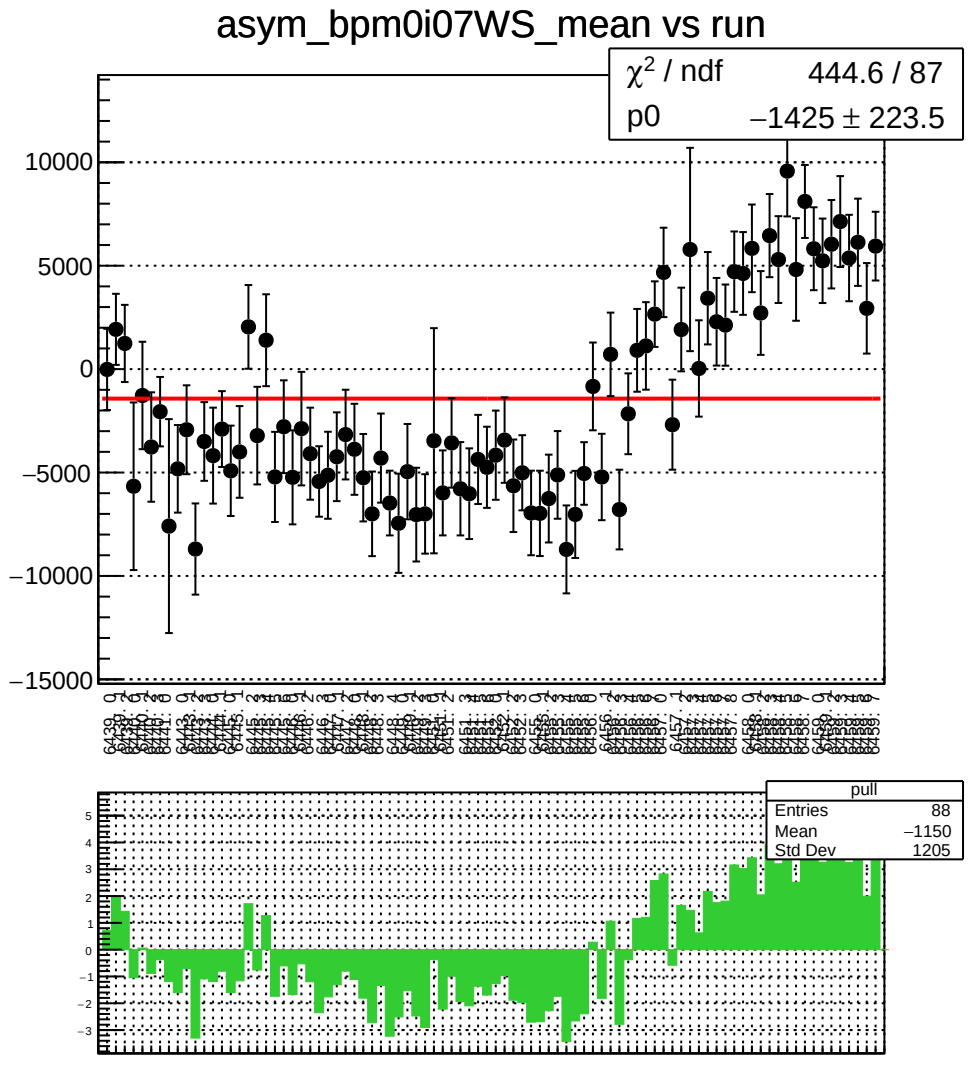

pull1D
Entries 88
Mean −0.05228
Std Dev 2.61
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

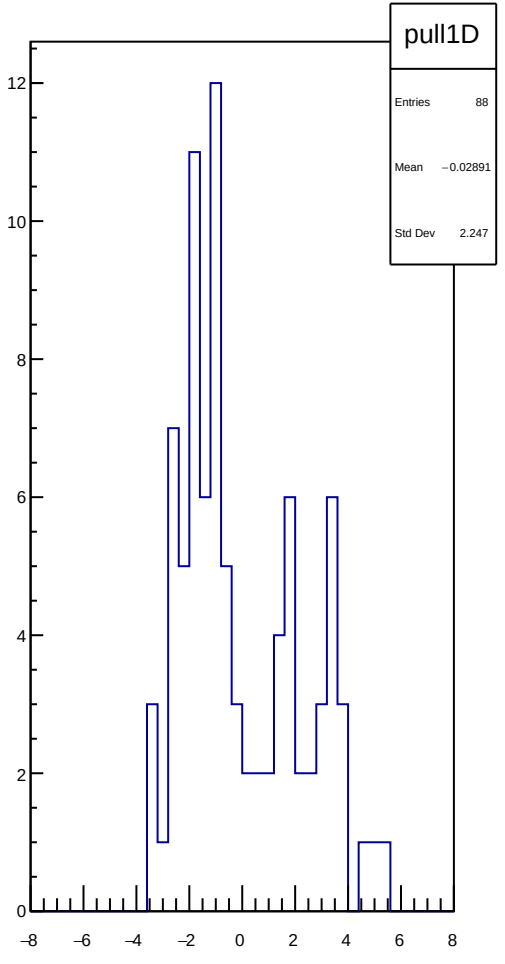

asym_bcm0l02_rms vs run
χ² / ndf 2.216e+04 / 87
p0 232.2 ± 0.1794
500
450
400
350
300
250
200
150

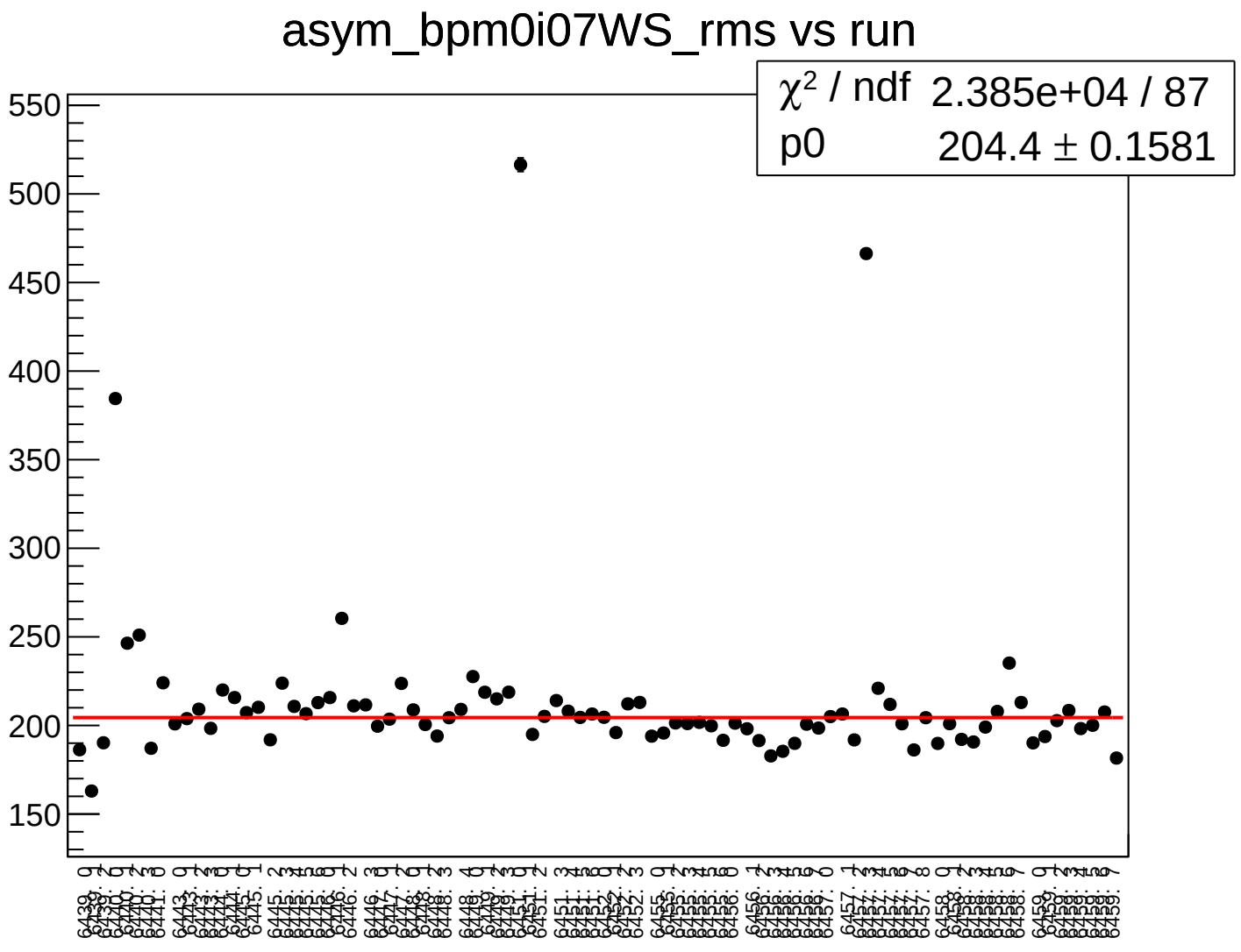

asym_bpm2i01WS_mean vs run
χ² / ndf 3700 / 87
p0 −1.055e+04 ± 127.3
pull
Entries 88
Mean 3908
Std Dev 3859

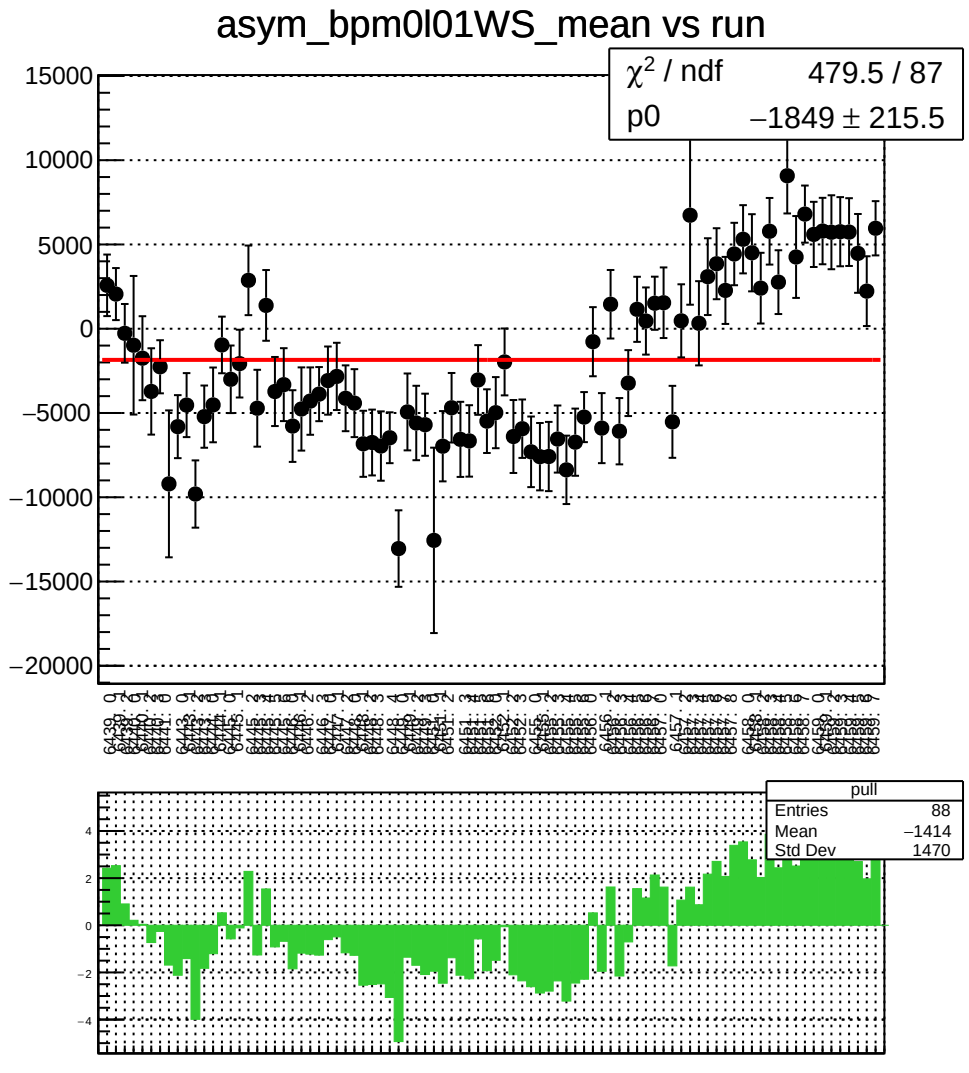

pull1D
Entries 88
Mean −0.7381
Std Dev 4.285

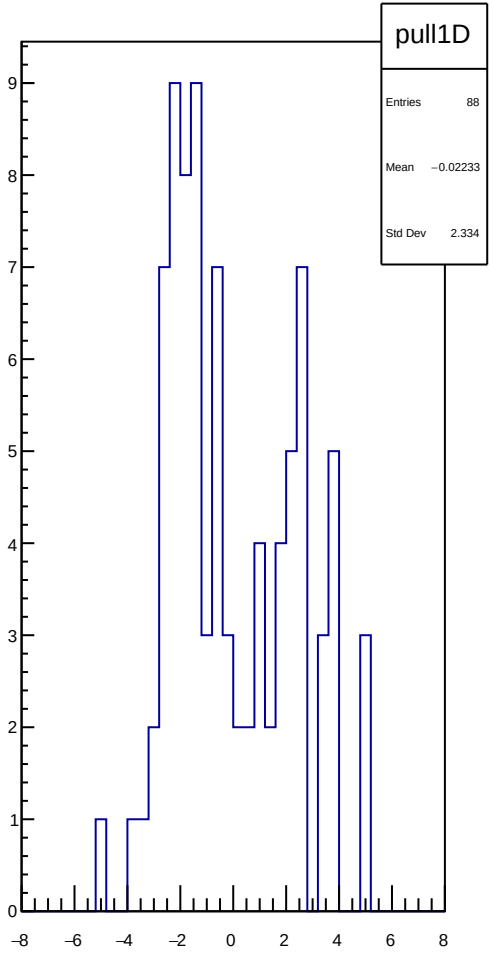

asym_bpm2i01WS_rms vs run
χ^2 / ndf 7.445e+04 / 87
p0 114.7 ± 0.09002
600
500
400
300
200
100

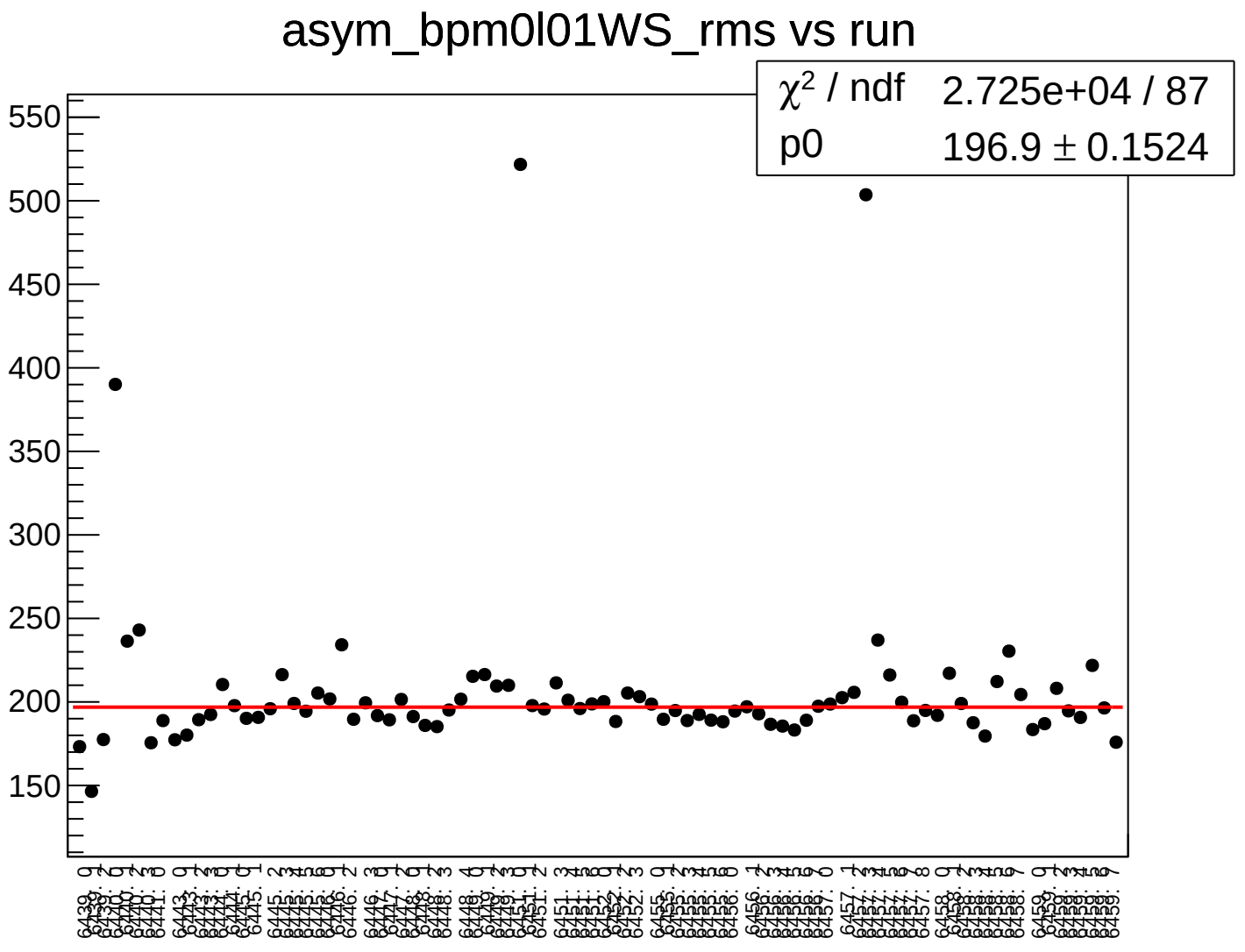

asym_bpm0i07WS_mean vs run
χ² / ndf 444.6 / 87
p0 −1425 ± 223.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −1150
Std Dev 1205
5
4
3
2
1
0
−1
−2
−3

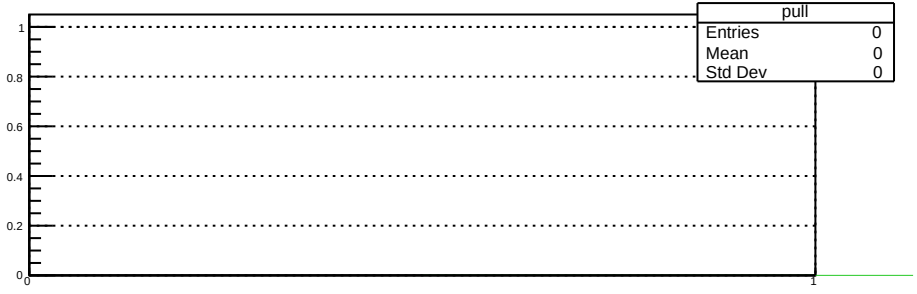

pull1D
Entries 88
Mean −0.02891
Std Dev 2.247
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

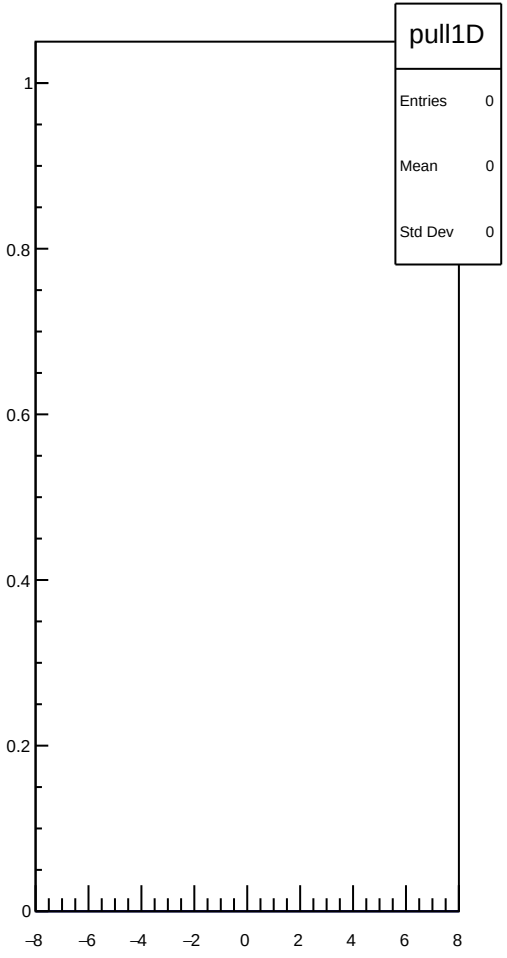

asym_bpm0i07WS_rms vs run
χ² / ndf 2.385e+04 / 87
p0 204.4 ± 0.1581
550
500
450
400
350
300
250
200
150

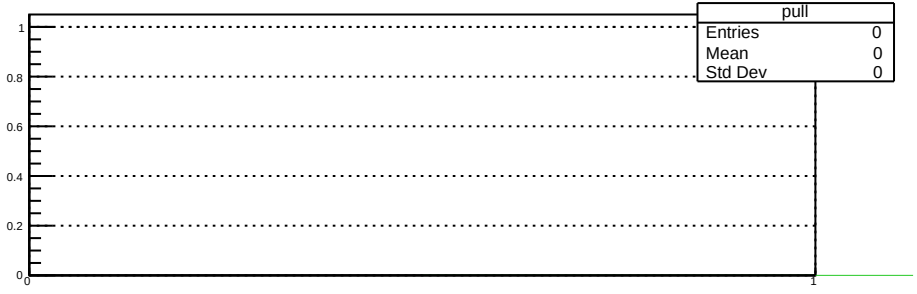

asym_bpm0l01WS_mean vs run
χ² / ndf 479.5 / 87
p0 −1849 ± 215.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean −1414
Std Dev 1470
4
2
0
−2
−4

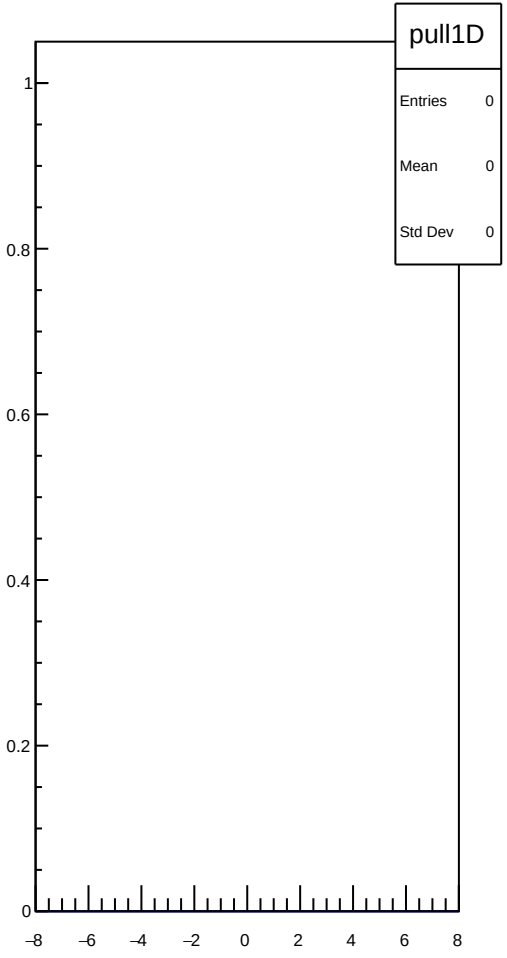

pull1D
Entries 88
Mean −0.02233
Std Dev 2.334
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

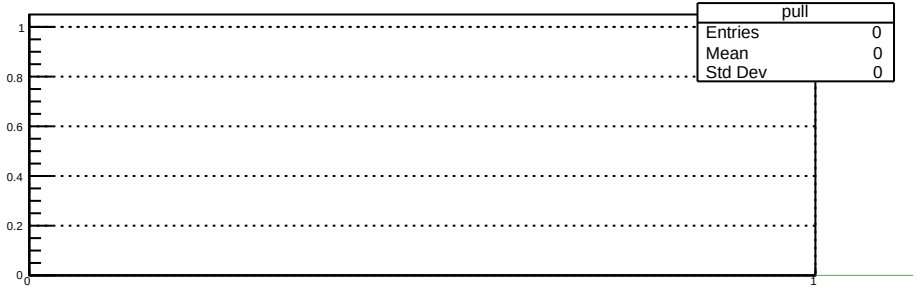

asym_bpm0l01WS_rms vs run
χ^2 / ndf 2.725e+04 / 87
p0 196.9 ± 0.1524
550
500
450
400
350
300
250
200
150

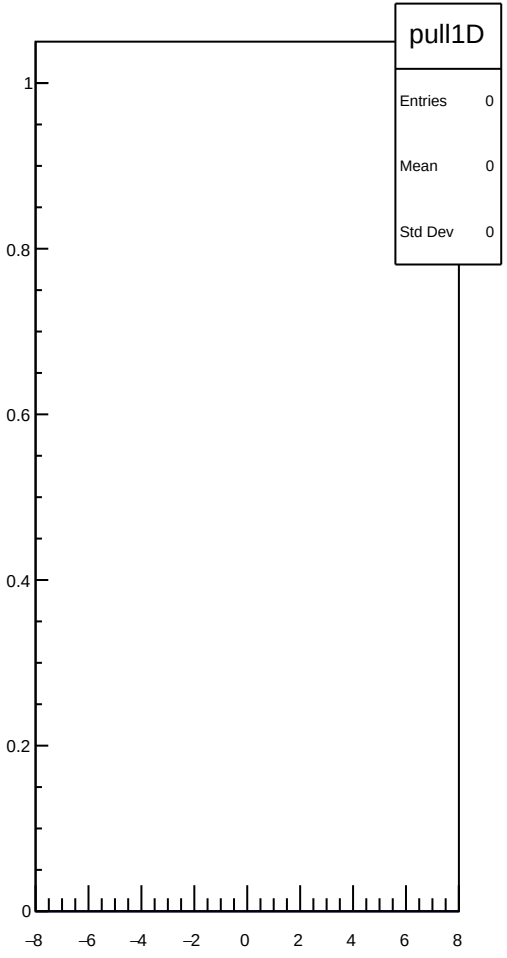

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

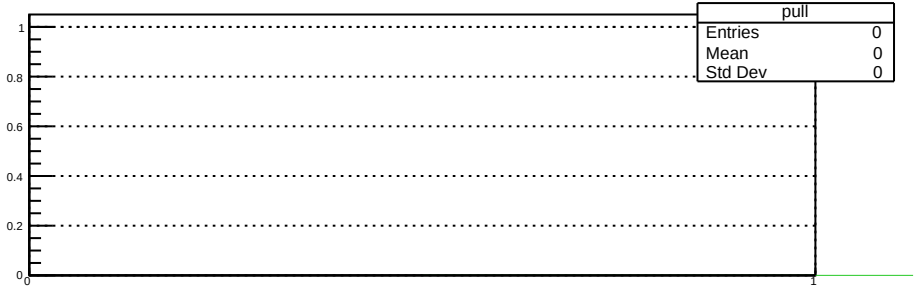

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

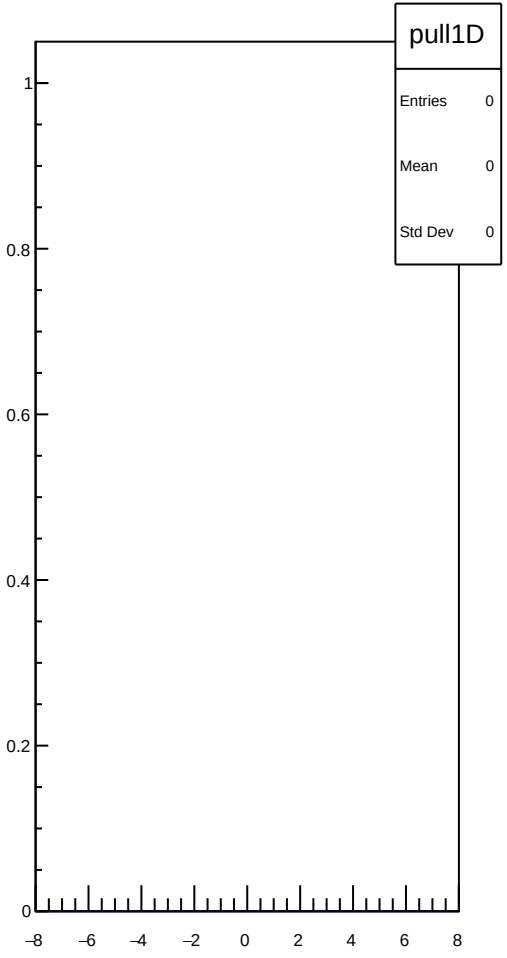

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

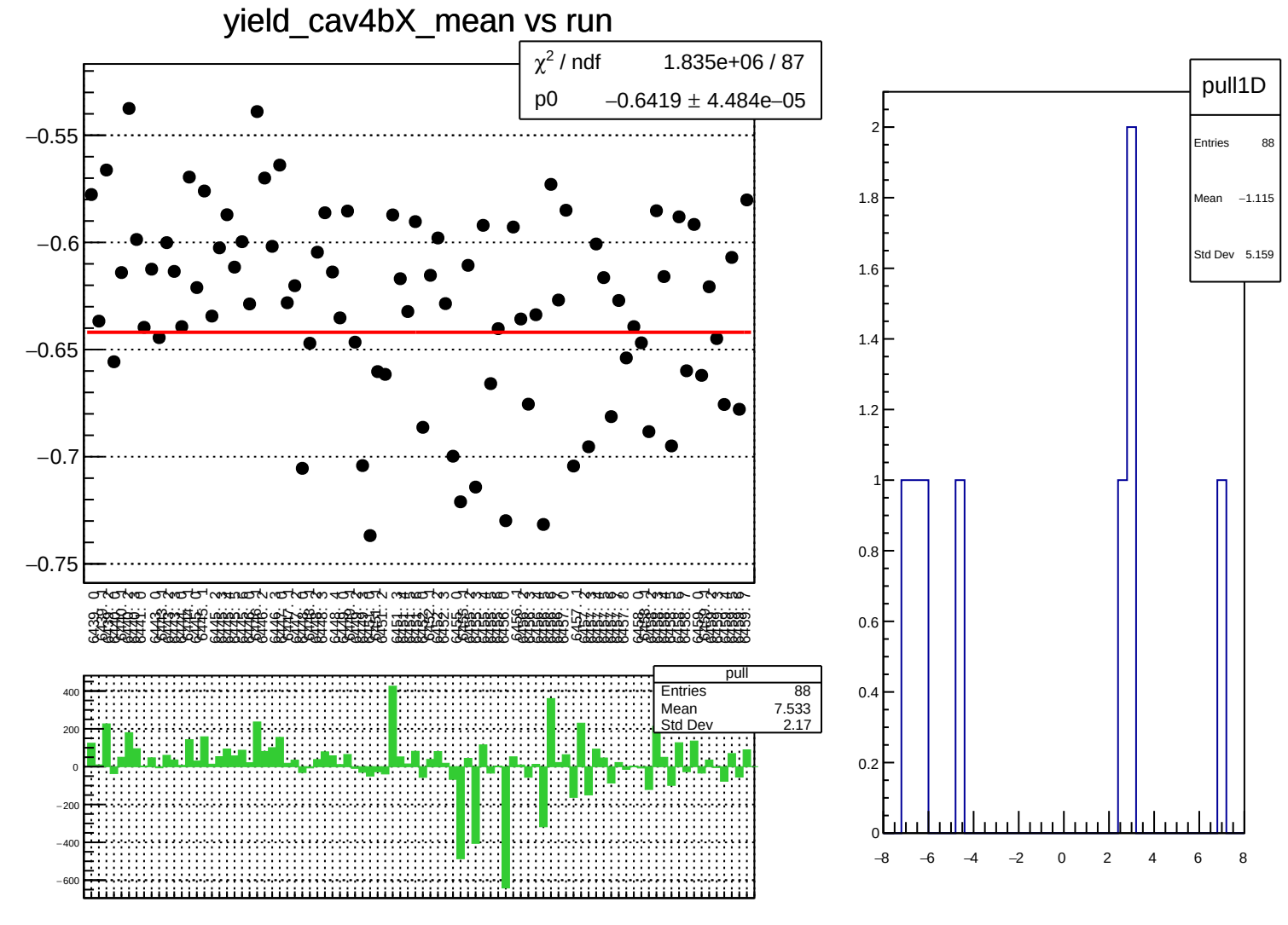

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

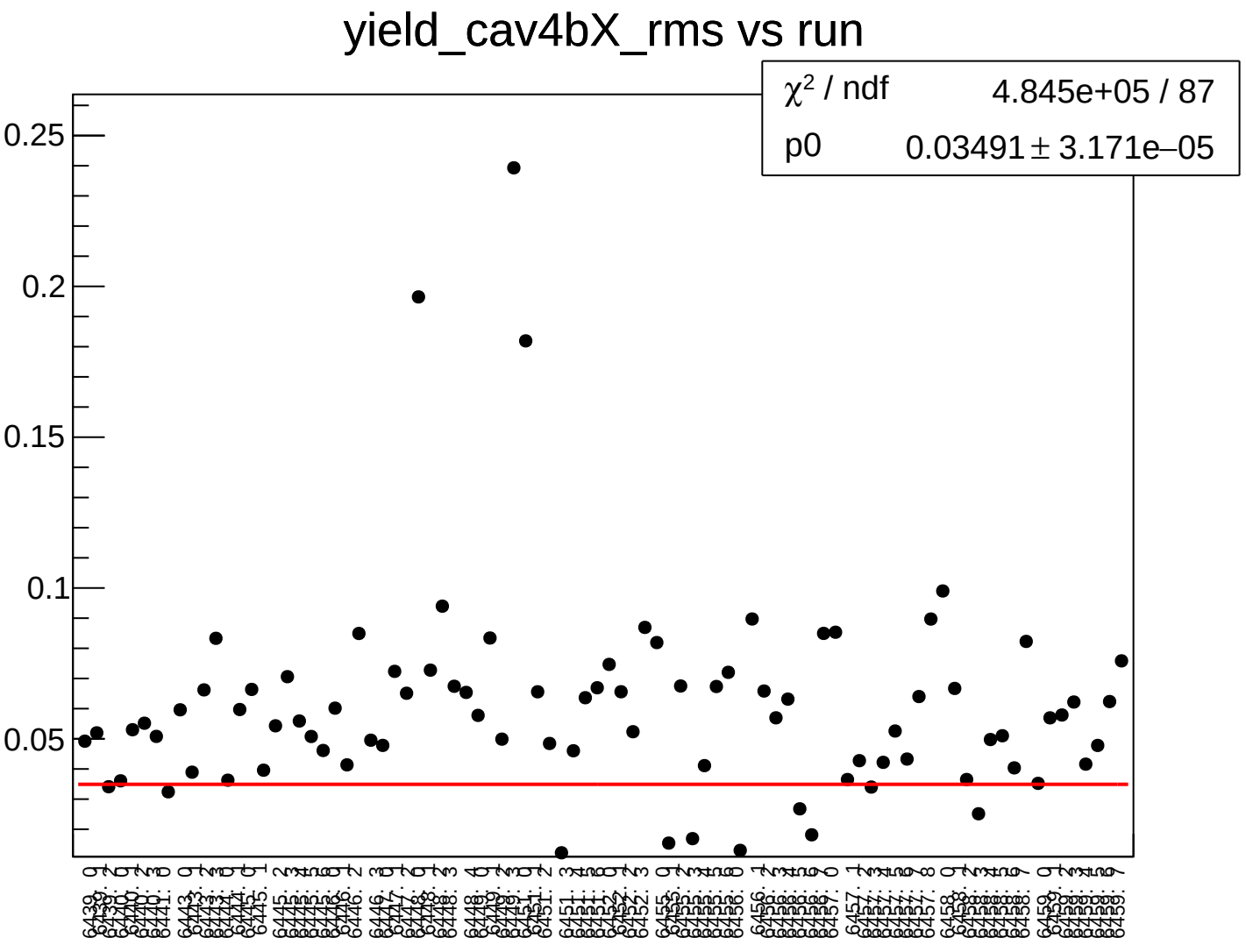

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

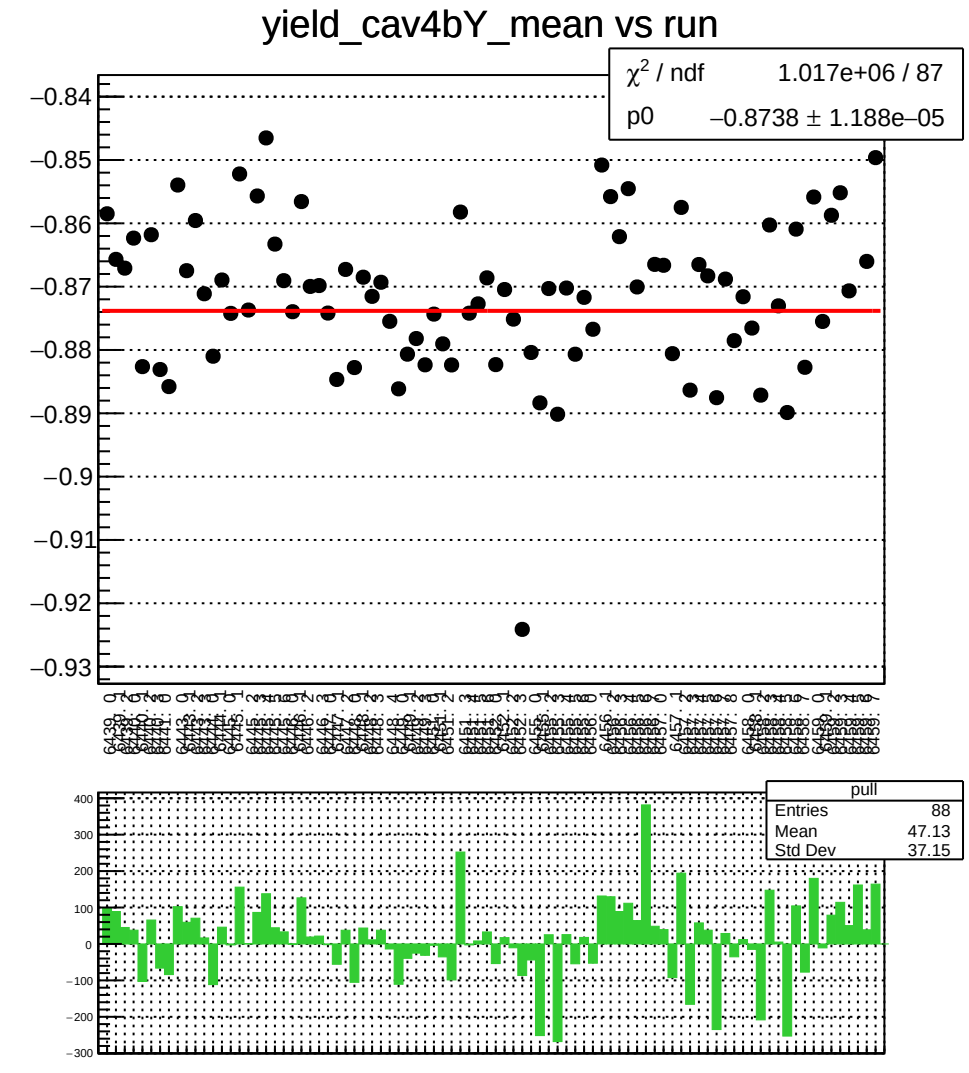

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

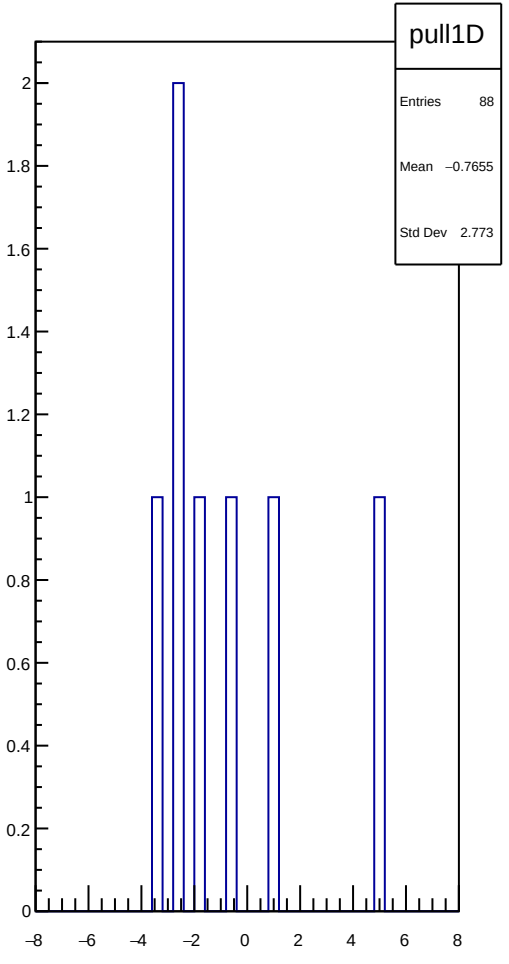

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

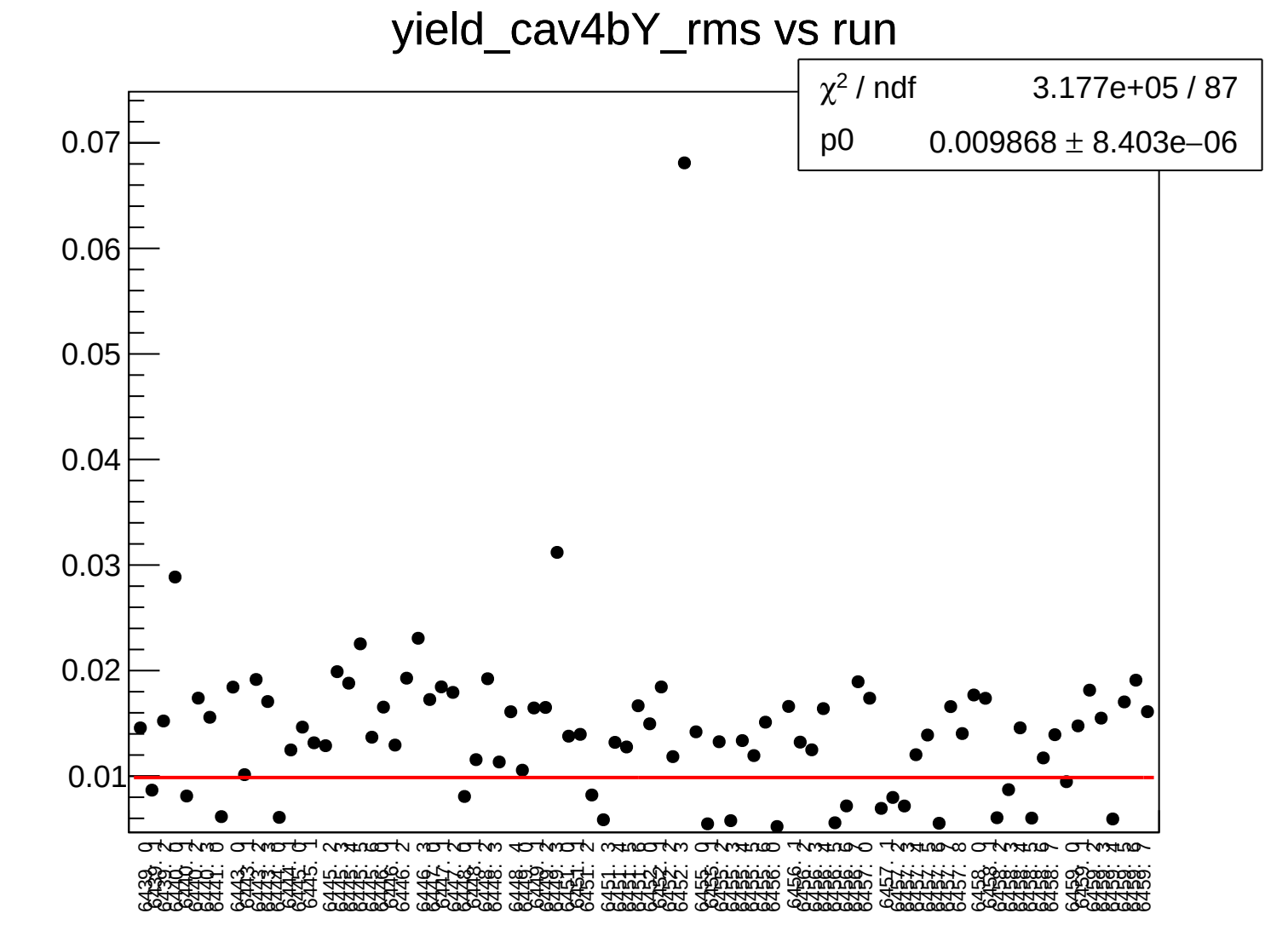

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

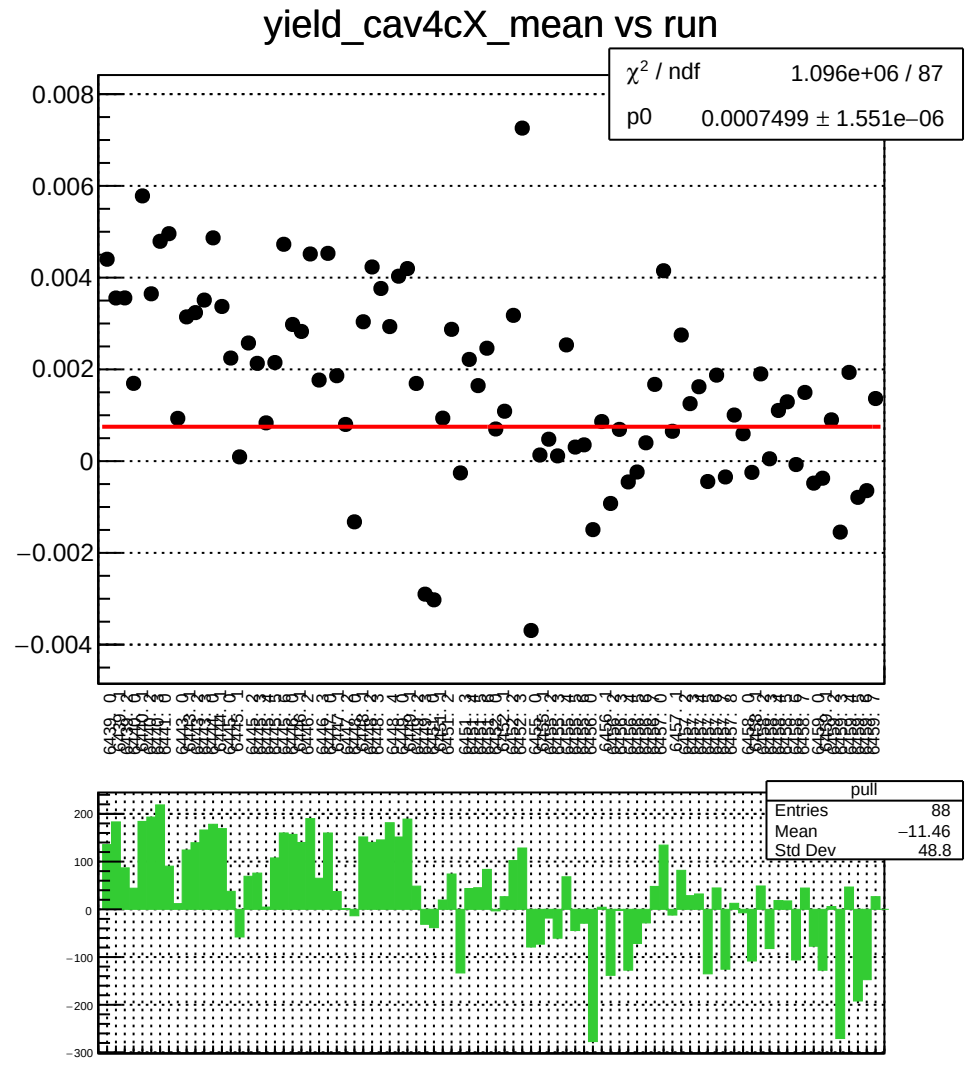

yield_cav4bX_mean vs run
χ² / ndf 1.835e+06 / 87
p0 −0.6419 ± 4.484e−05
−0.55
−0.6
−0.65
−0.7
−0.75
pull
Entries 88
Mean 7.533
Std Dev 2.17
400
200
0
−200
−400
−600
pull1D
Entries 88
Mean −1.115
Std Dev 5.159
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

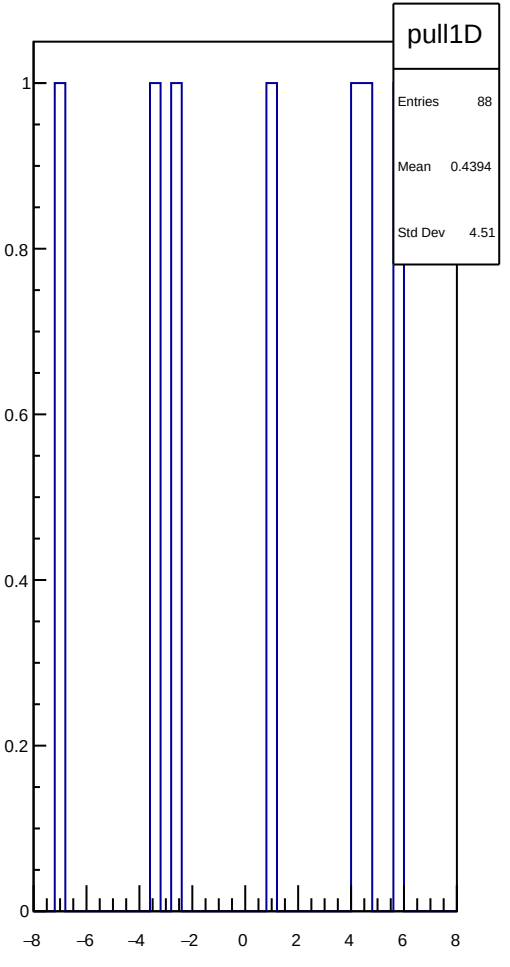

yield_cav4bX_rms vs run
χ² / ndf 4.845e+05 / 87
p0 0.03491 ± 3.171e–05
0.25
0.2
0.15
0.1
0.05

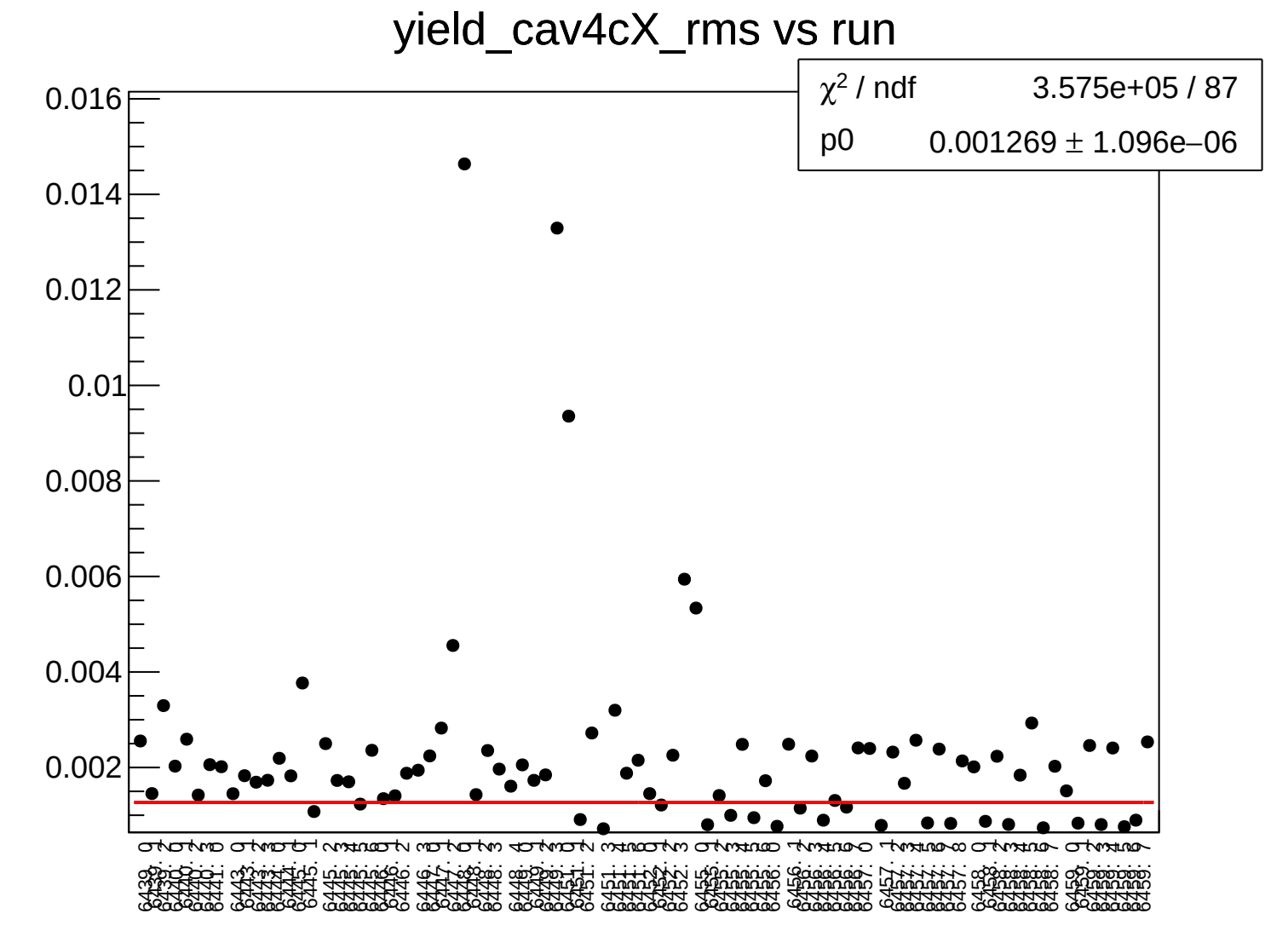

yield_cav4bY_mean vs run
χ² / ndf 1.017e+06 / 87
p0 −0.8738 ± 1.188e−05
pull
Entries 88
Mean 47.13
Std Dev 37.15

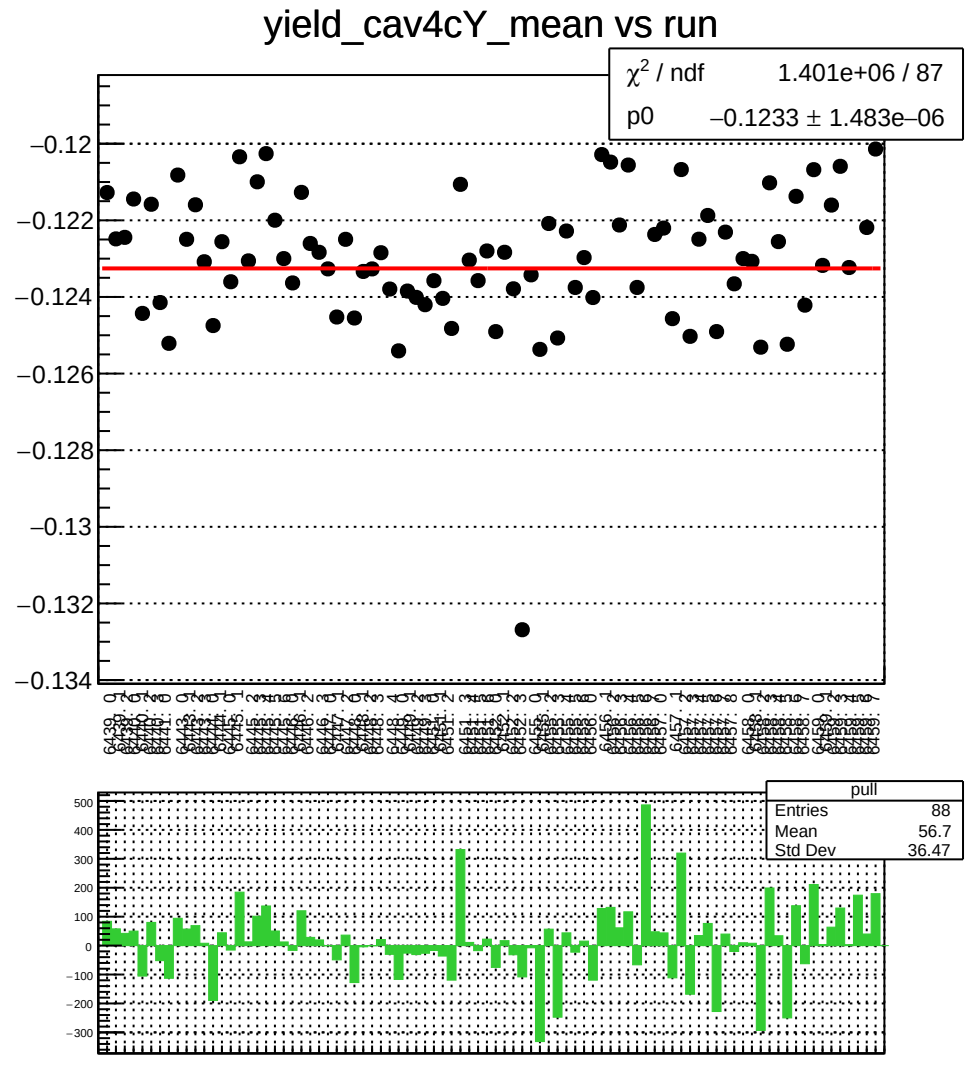

pull1D
Entries 88
Mean −0.7655
Std Dev 2.773

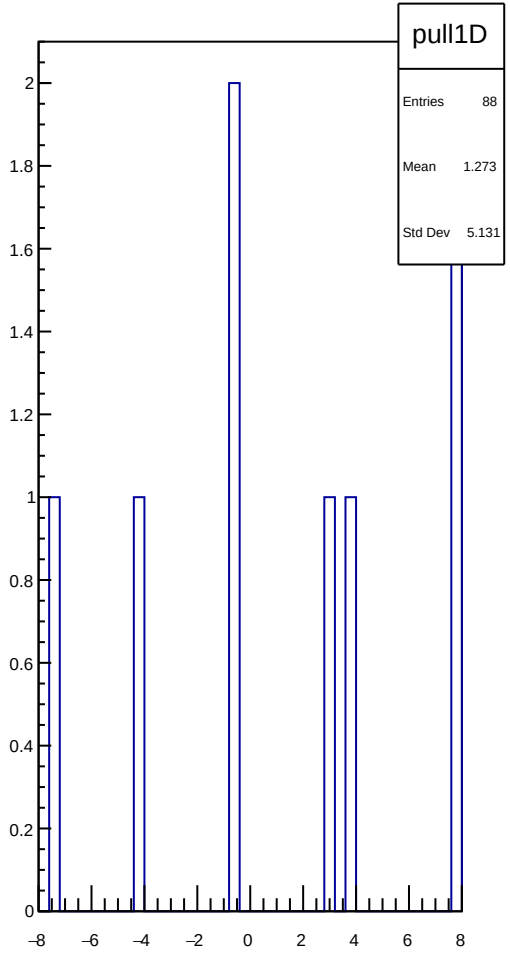

yield_cav4bY_rms vs run
χ^2 / ndf 3.177e+05 / 87
p0 0.009868 ± 8.403e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

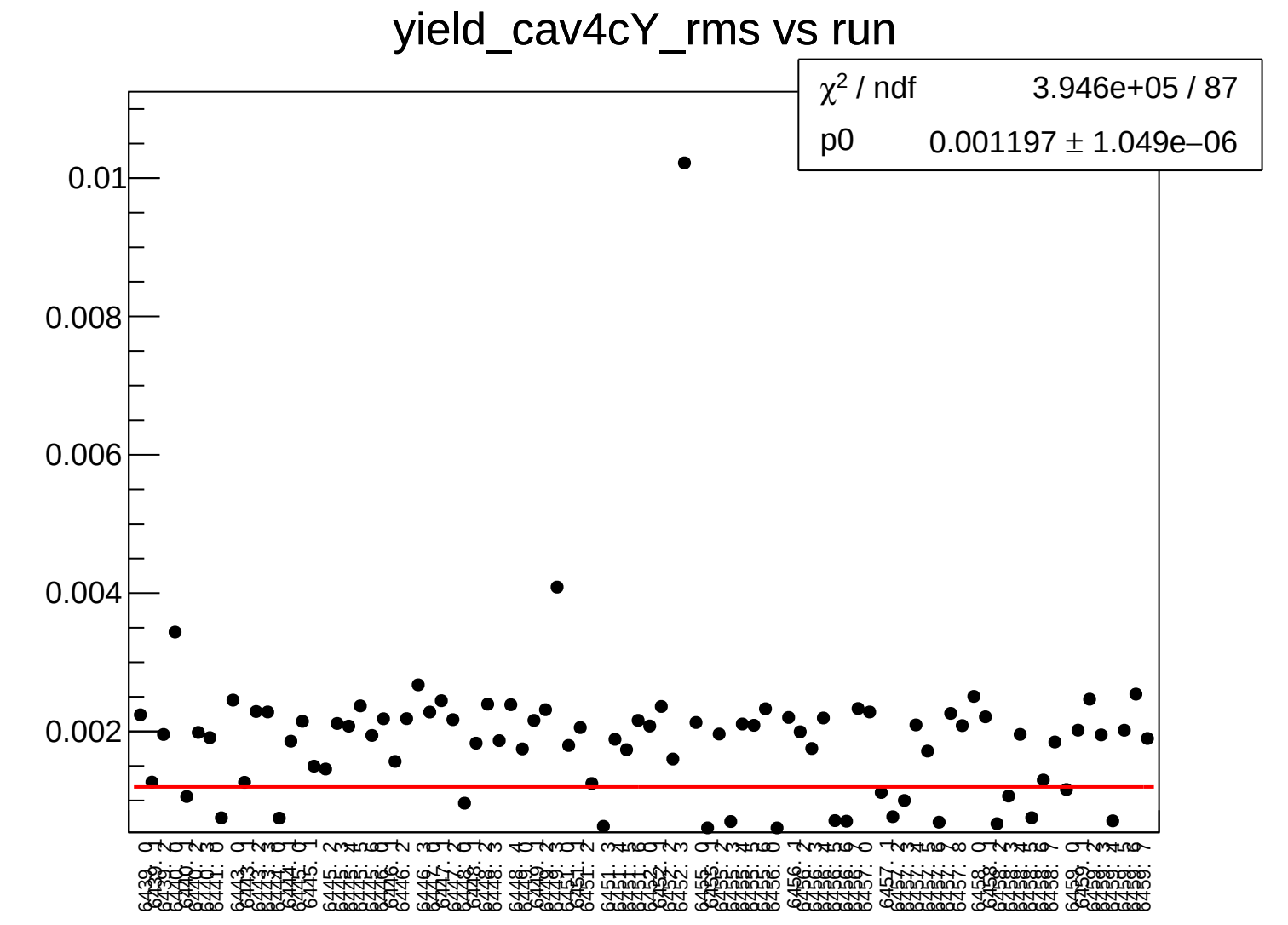

yield_cav4cX_mean vs run
χ² / ndf 1.096e+06 / 87
p0 0.0007499 ± 1.551e−06
0.008
0.006
0.004
0.002
0
−0.002
−0.004
pull
Entries 88
Mean −11.46
Std Dev 48.8
200
100
0
−100
−200
−300

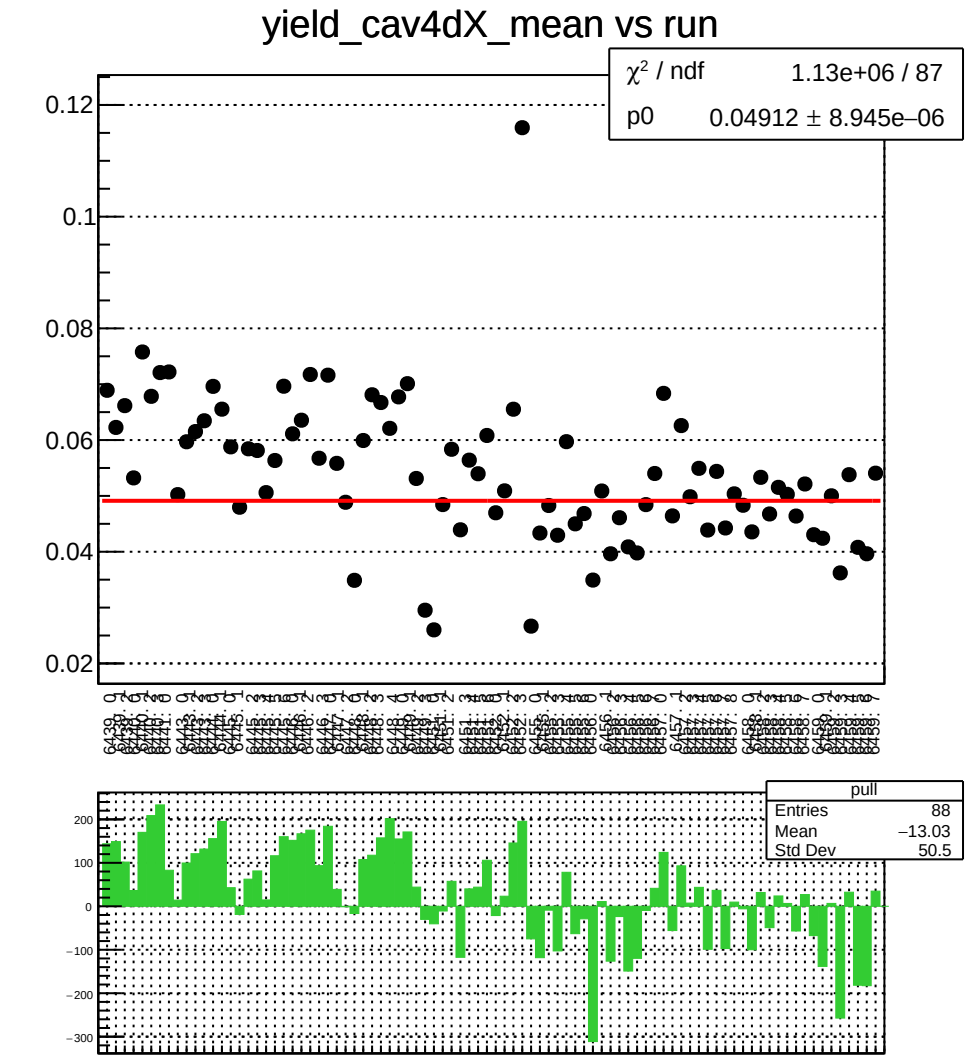

pull1D
Entries 88
Mean 0.4394
Std Dev 4.51
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

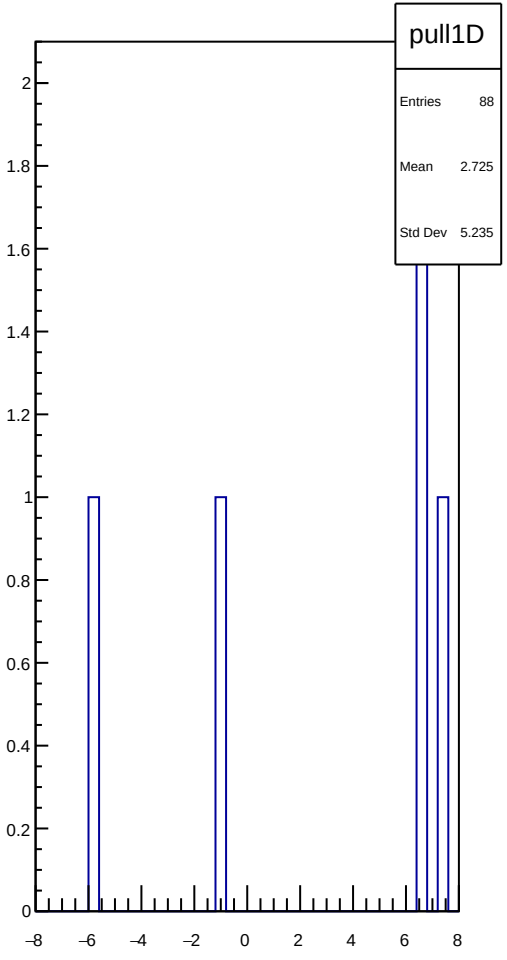

yield_cav4cX_rms vs run
χ² / ndf 3.575e+05 / 87
p0 0.001269 ± 1.096e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

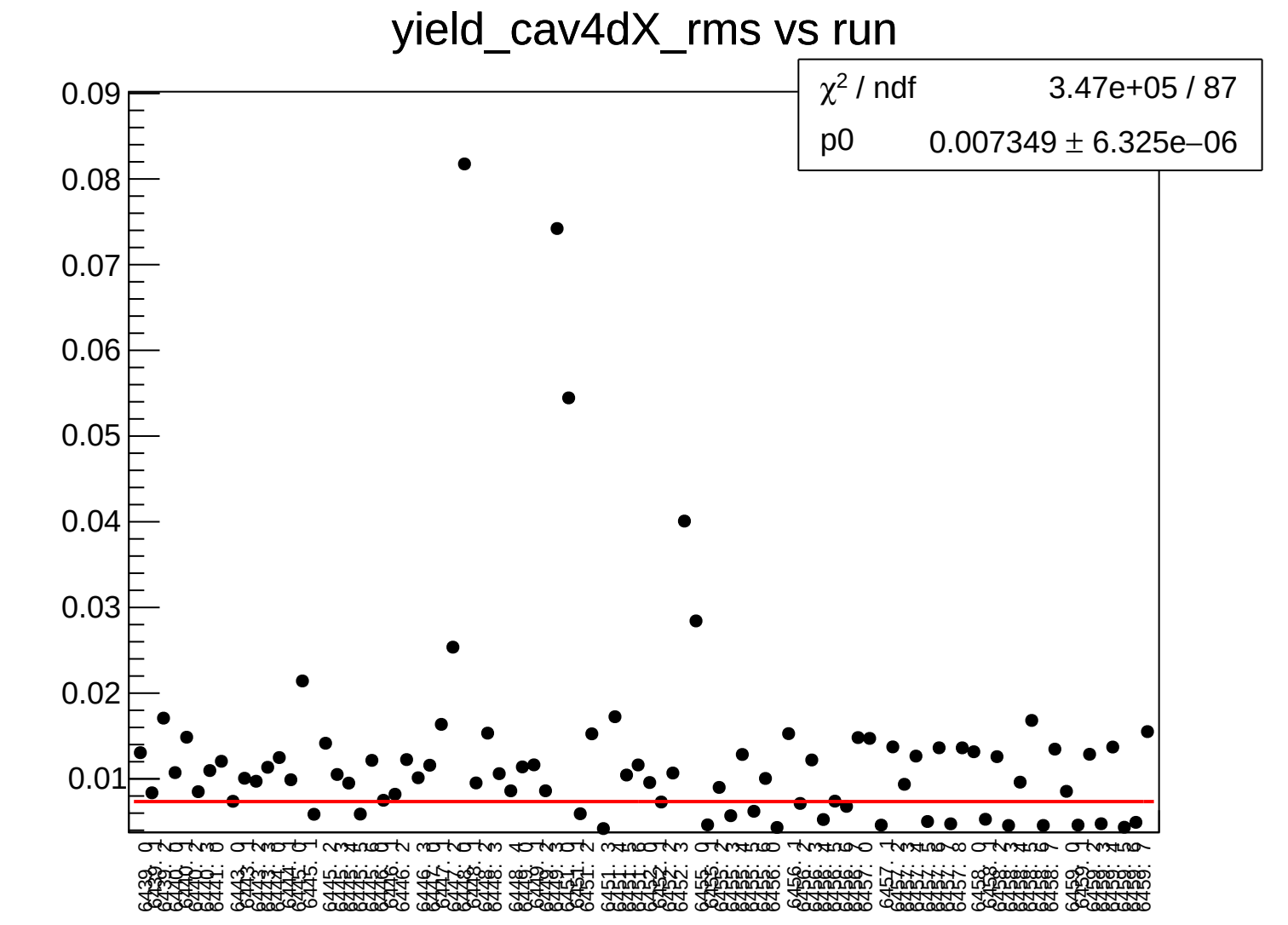

yield_cav4cY_mean vs run
χ² / ndf 1.401e+06 / 87
p0 −0.1233 ± 1.483e−06
−0.12
−0.122
−0.124
−0.126
−0.128
−0.13
−0.132
−0.134
pull
Entries 88
Mean 56.7
Std Dev 36.47
500
400
300
200
100
0
−100
−200
−300

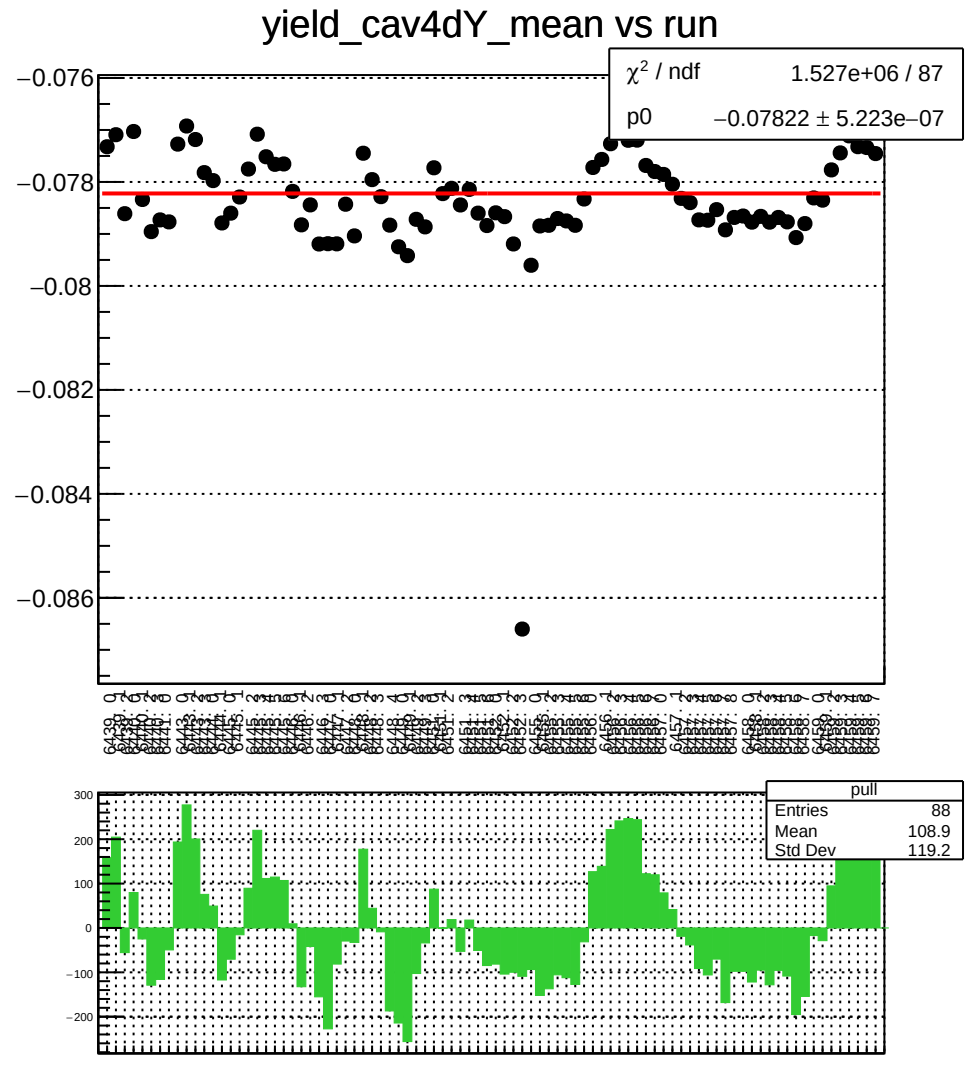

pull1D
Entries 88
Mean 1.273
Std Dev 5.131
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

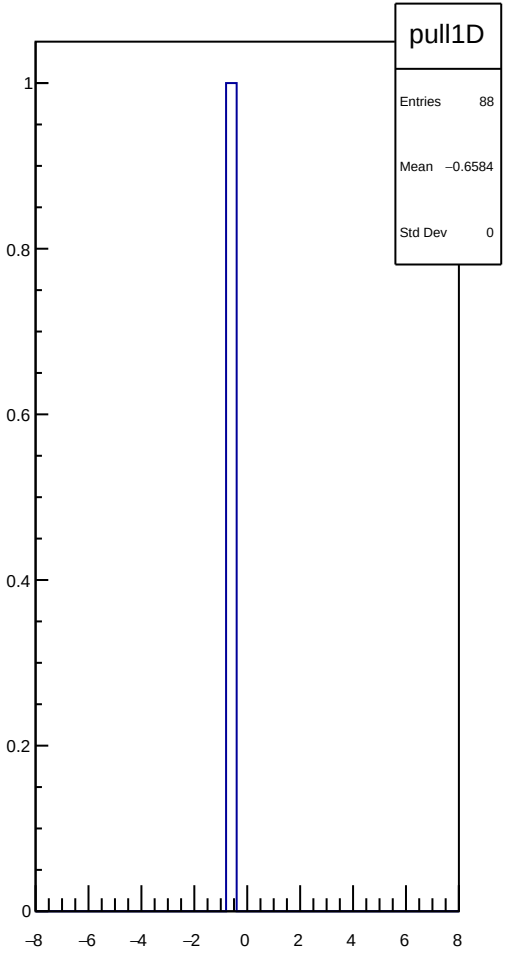

yield_cav4cY_rms vs run
χ² / ndf 3.946e+05 / 87
p0 0.001197 ± 1.049e−06
0.01
0.008
0.006
0.004
0.002

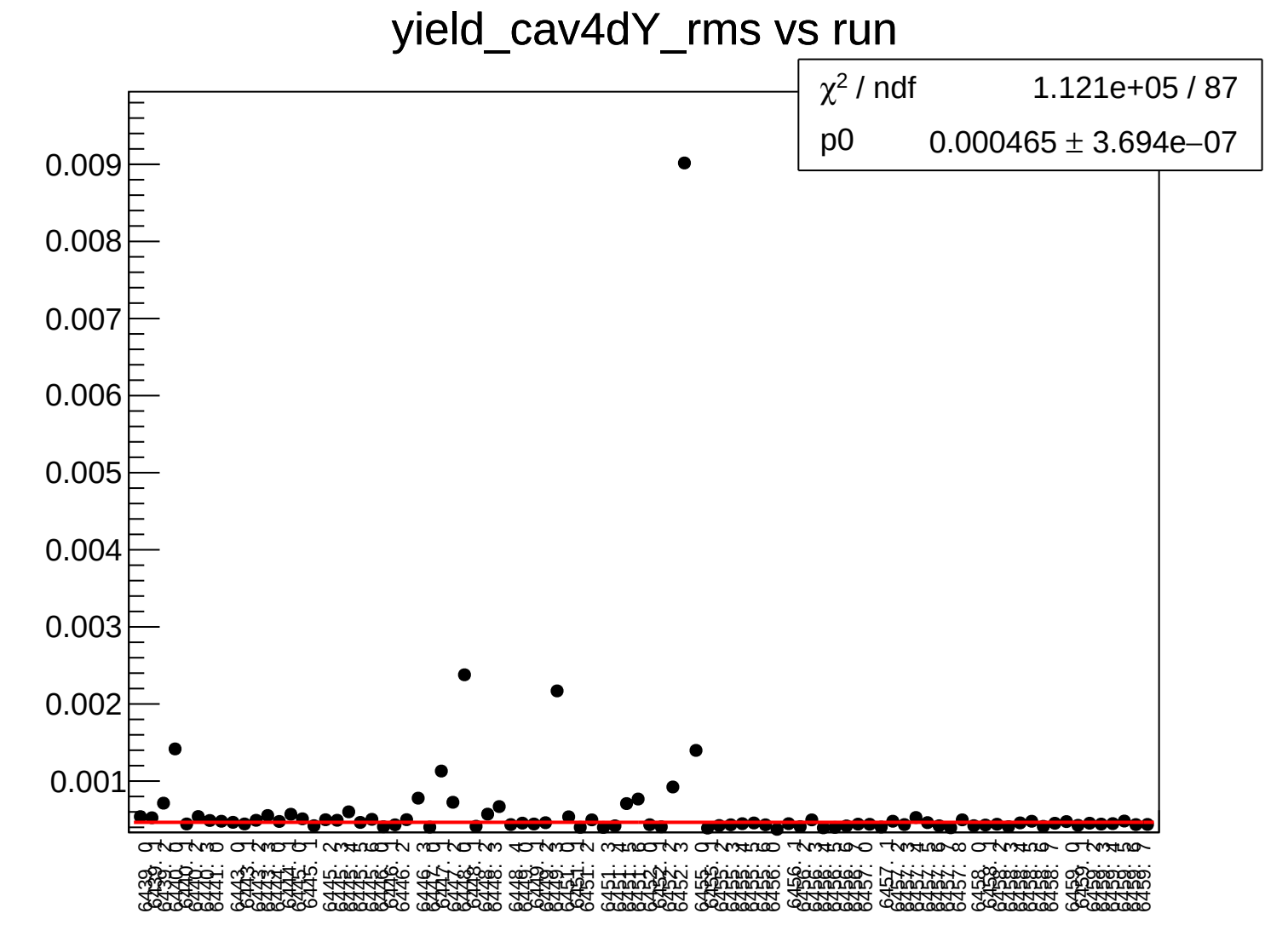

yield_cav4dX_mean vs run
χ² / ndf 1.13e+06 / 87
p0 0.04912 ± 8.945e−06
0.12
0.1
0.08
0.06
0.04
0.02
pull
Entries 88
Mean −13.03
Std Dev 50.5
200
100
0
−100
−200
−300

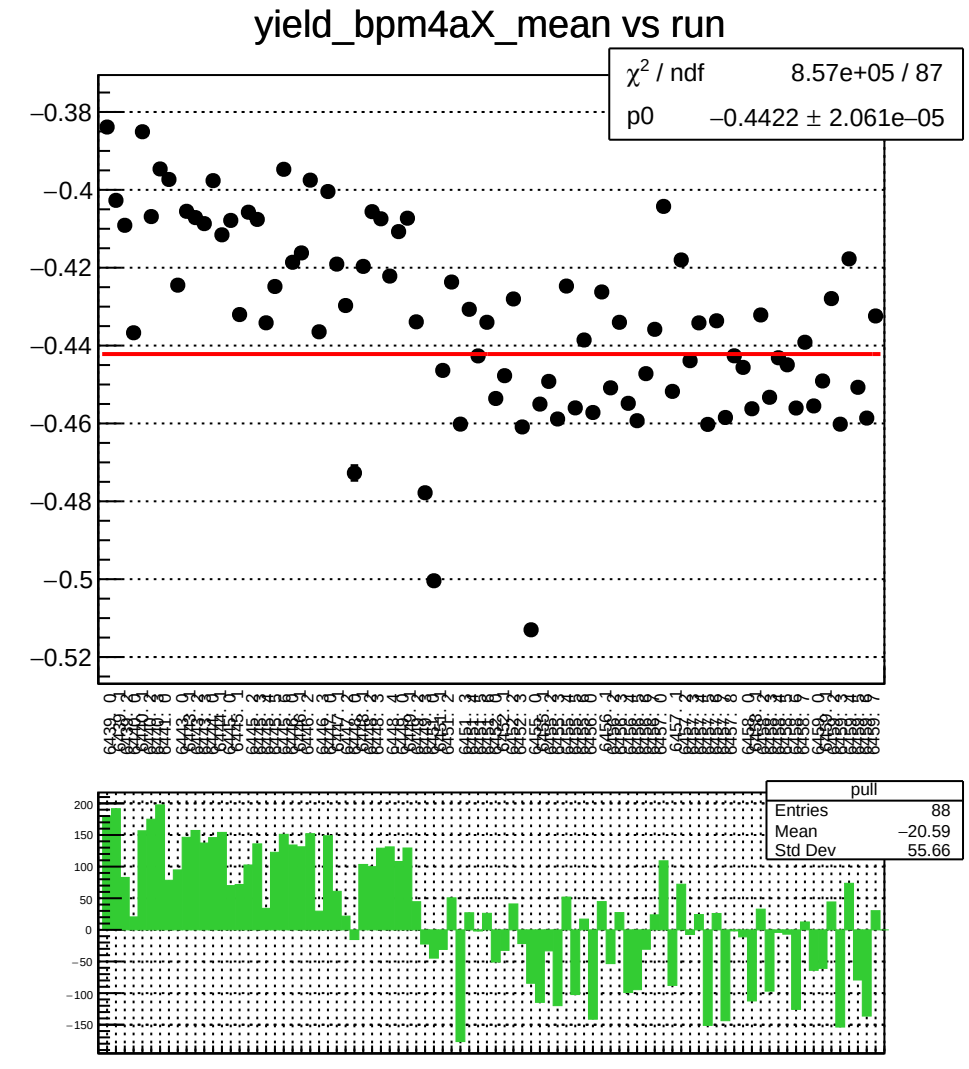

pull1D
Entries 88
Mean 2.725
Std Dev 5.235
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

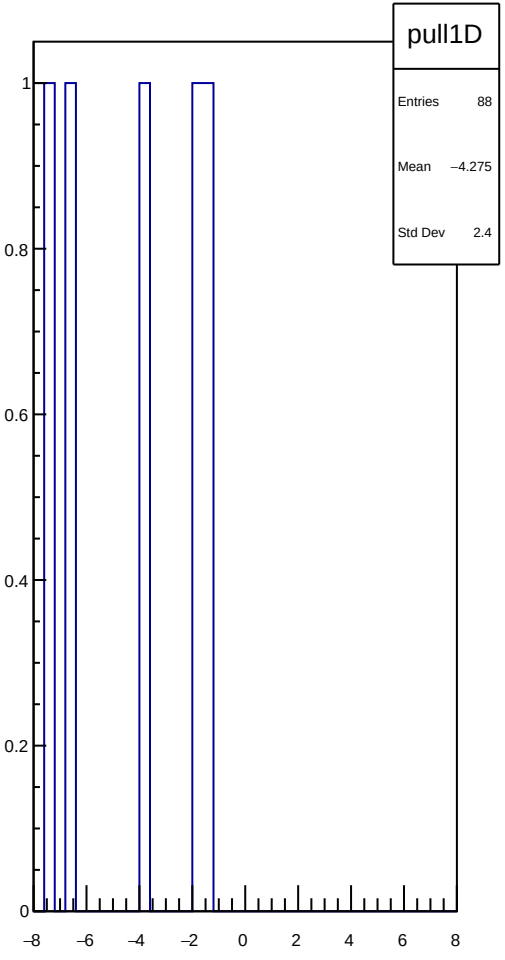

yield_cav4dX_rms vs run
χ² / ndf 3.47e+05 / 87
p0 0.007349 ± 6.325e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

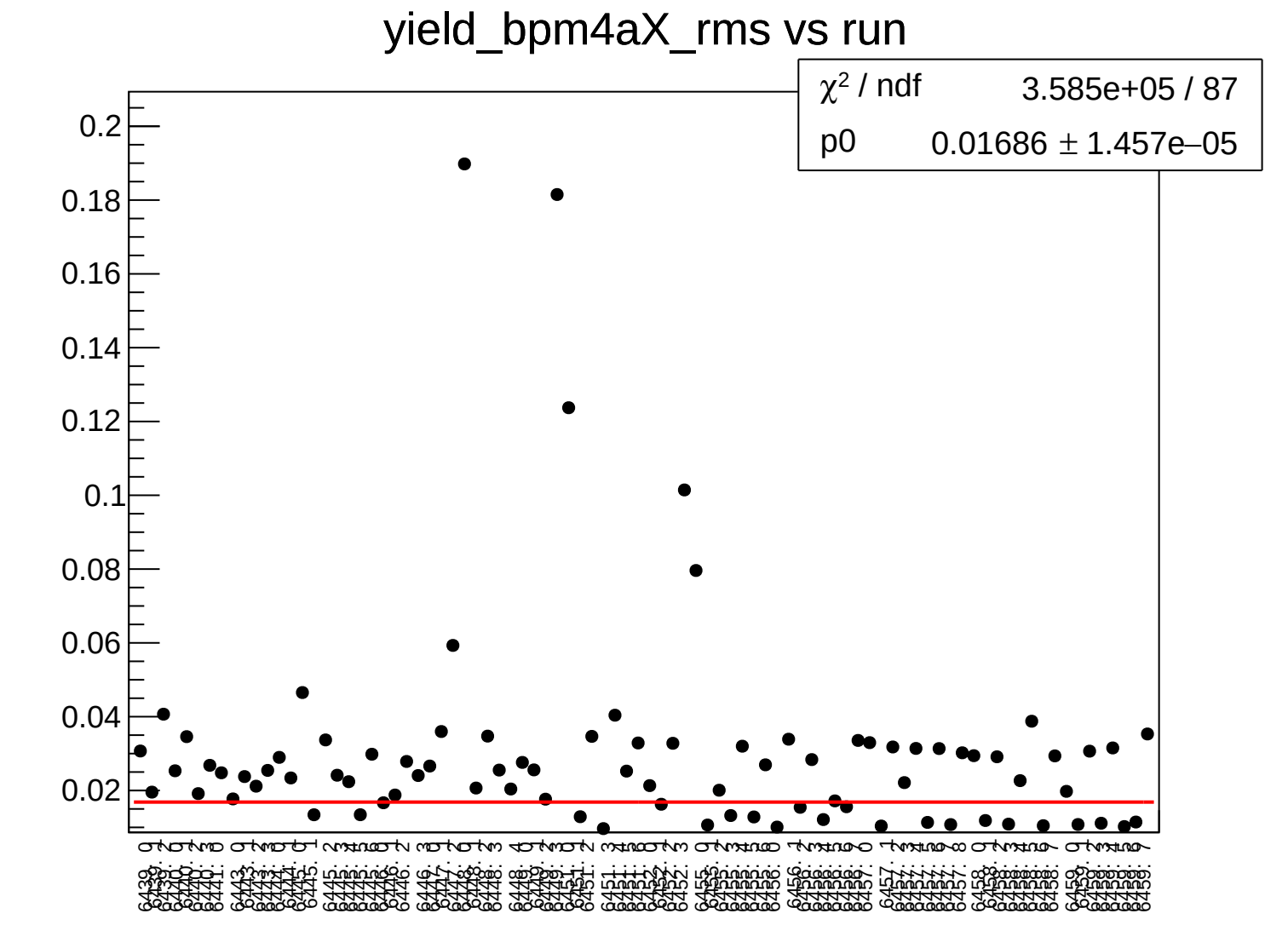

yield_cav4dY_mean vs run
χ² / ndf 1.527e+06 / 87
p0 −0.07822 ± 5.223e−05
−0.076
−0.078
−0.08
−0.082
−0.084
−0.086
pull
Entries 88
Mean 108.9
Std Dev 119.2
300
200
100
0
−100
−200

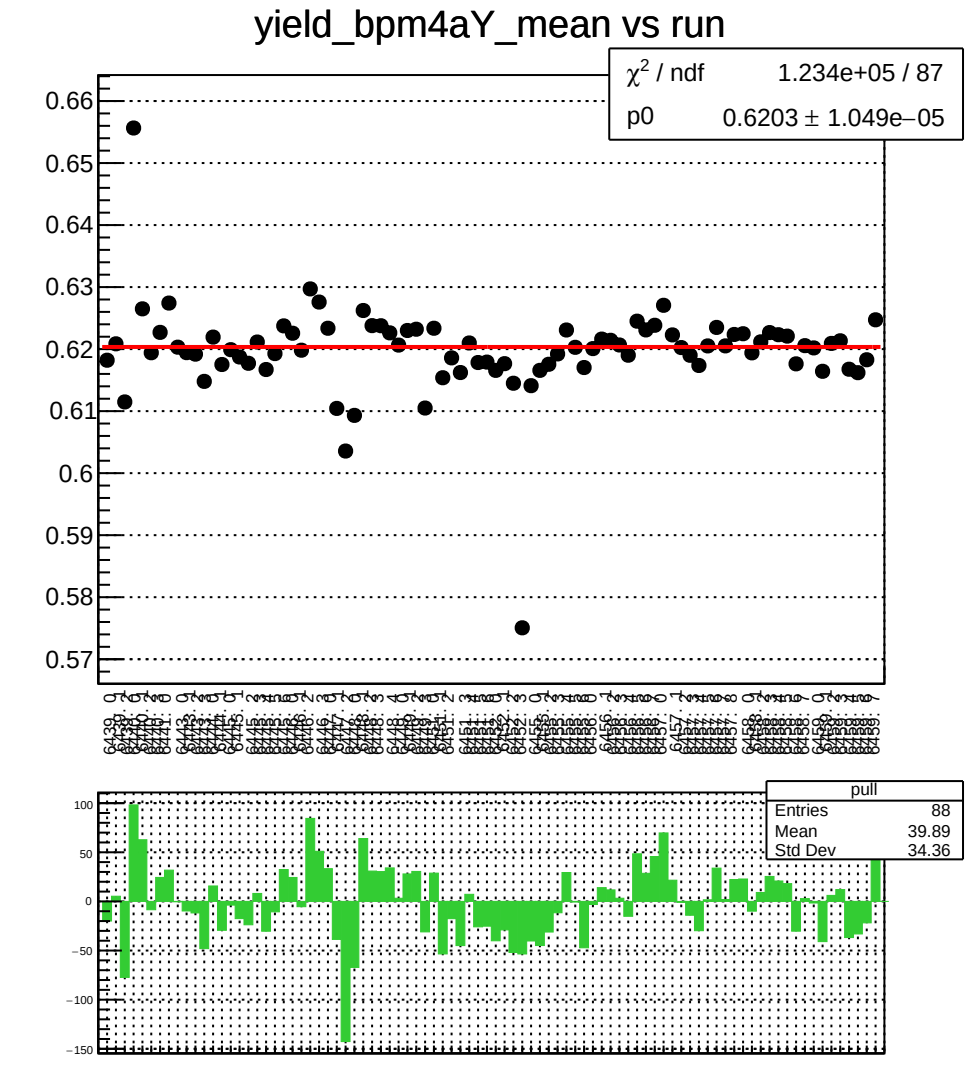

pull1D
Entries 88
Mean −0.6584
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

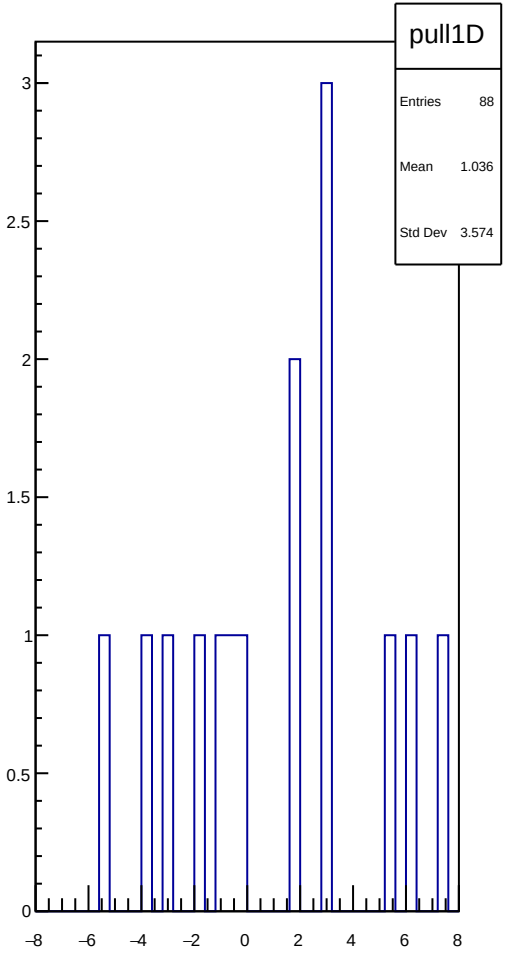

yield_cav4dY_rms vs run
χ² / ndf 1.121e+05 / 87
p0 0.000465 ± 3.694e−07
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

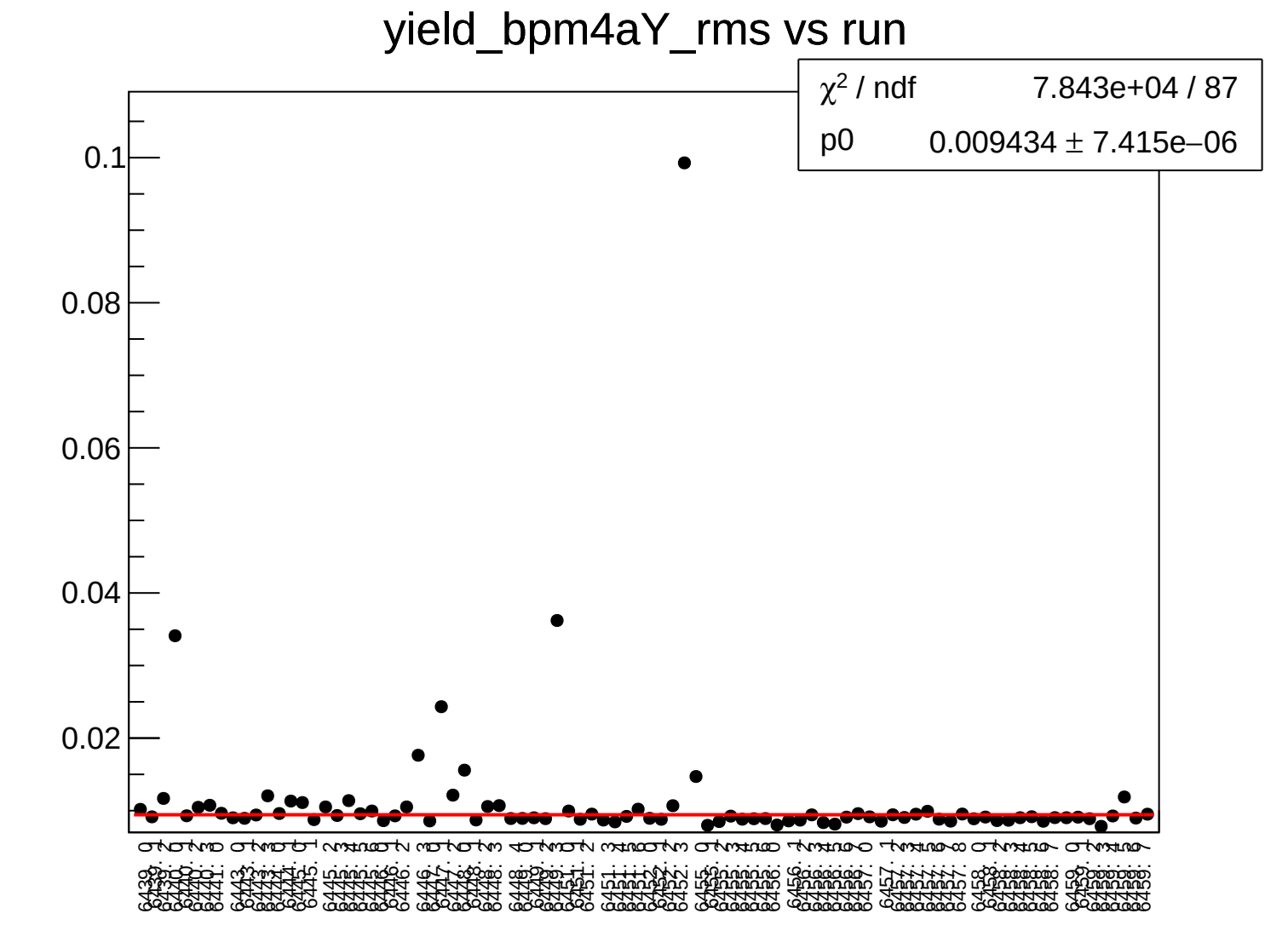

yield_bpm4aX_mean vs run
χ² / ndf 8.57e+05 / 87
p0 −0.4422 ± 2.061e−05
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
pull
Entries 88
Mean −20.59
Std Dev 55.66
200
150
100
50
0
−50
−100
−150

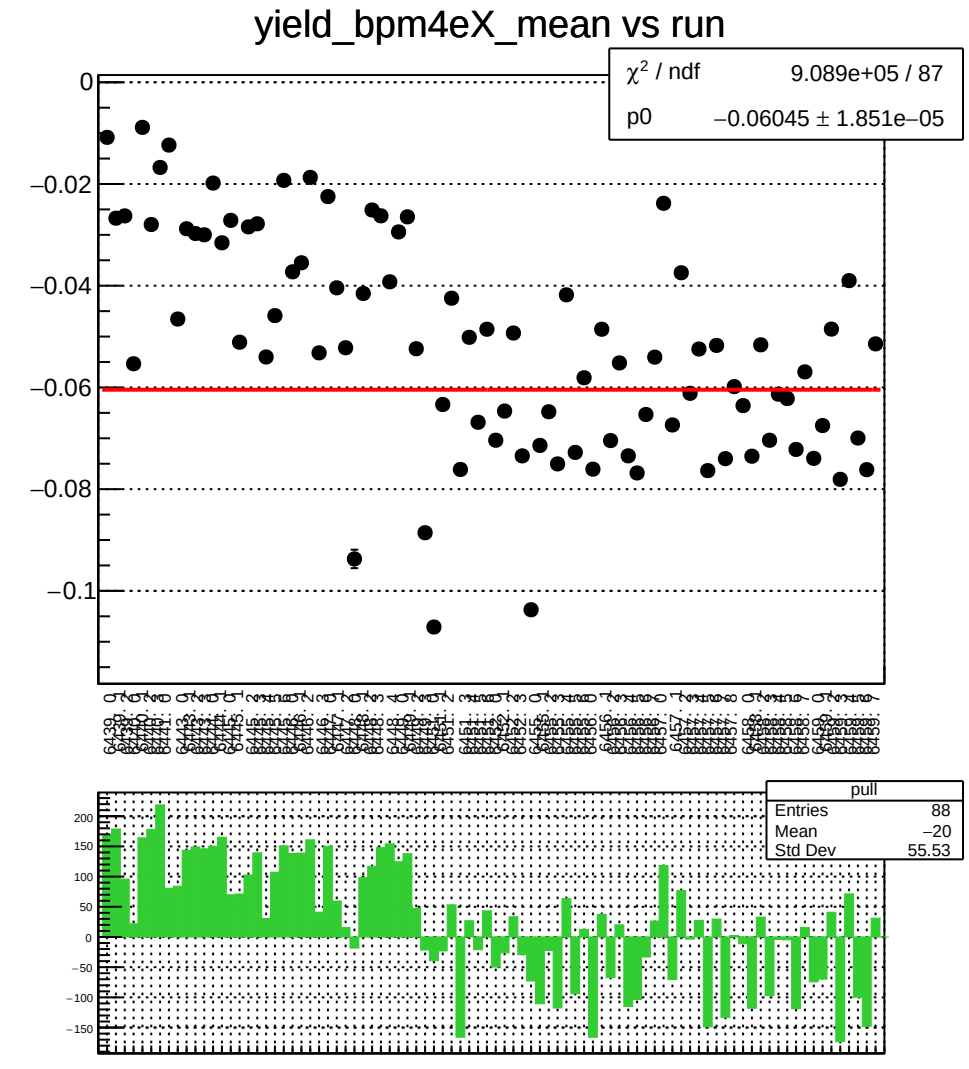

pull1D
Entries 88
Mean −4.275
Std Dev 2.4
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

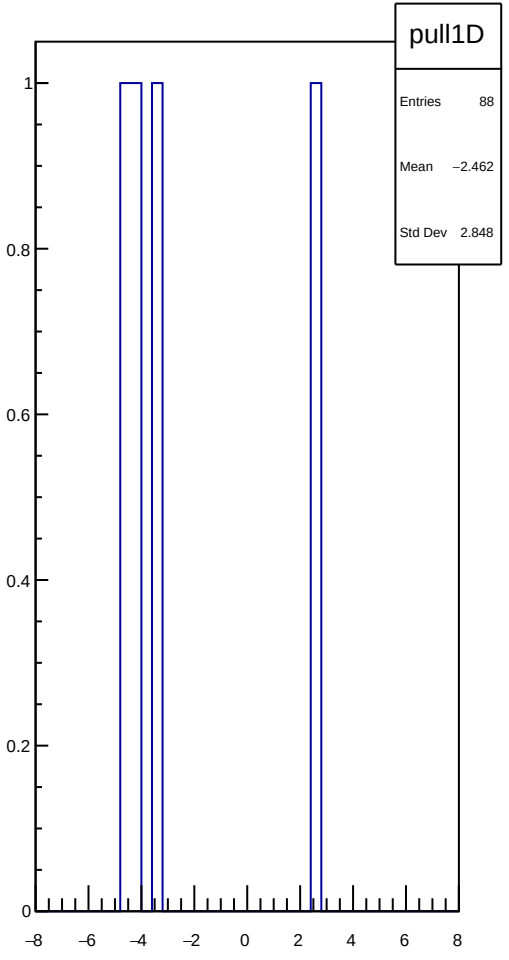

yield_bpm4aX_rms vs run
χ² / ndf 3.585e+05 / 87
p0 0.01686 ± 1.457e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

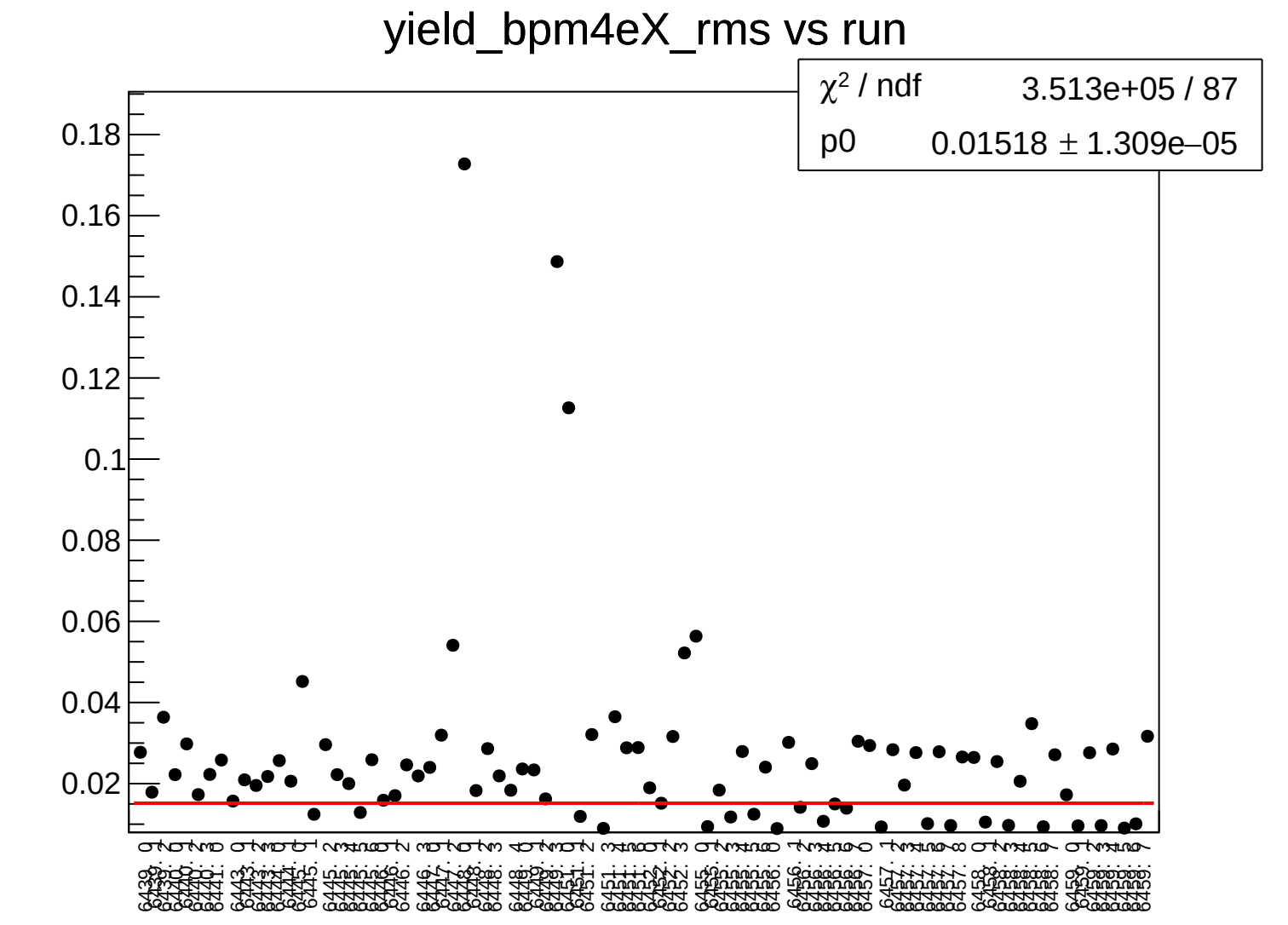

yield_bpm4aY_mean vs run
χ² / ndf 1.234e+05 / 87
p0 0.6203 ± 1.049e−05
pull
Entries 88
Mean 39.89
Std Dev 34.36

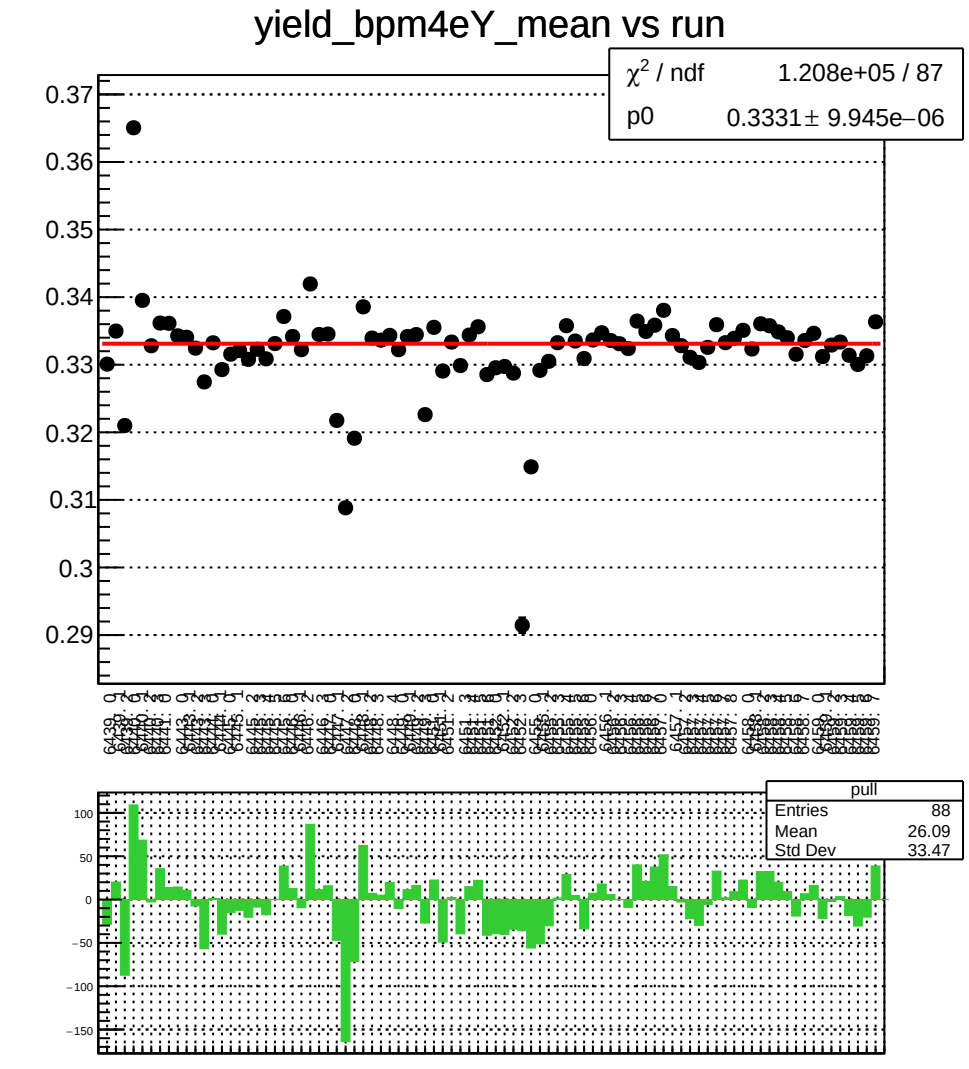

pull1D
Entries 88
Mean 1.036
Std Dev 3.574

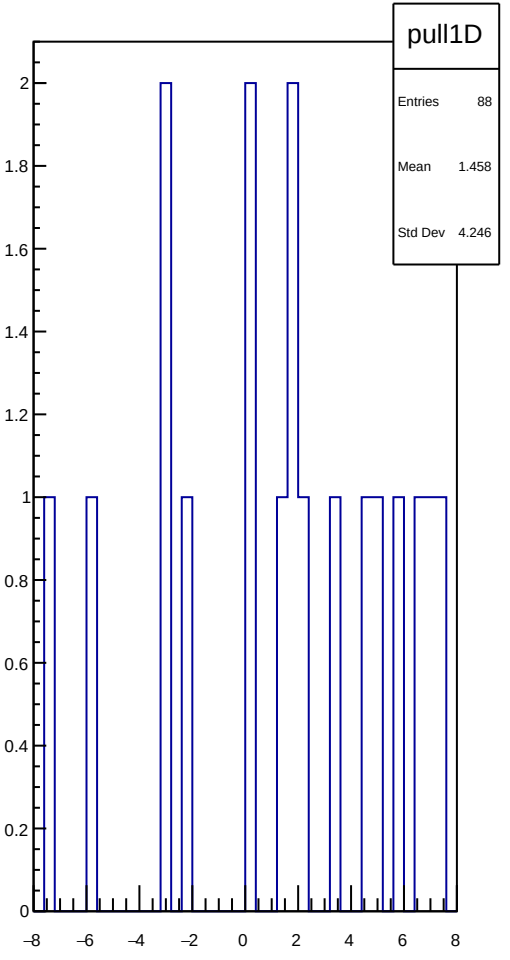

yield_bpm4aY_rms vs run
χ^2 / ndf 7.843e+04 / 87
p0 0.009434 ± 7.415e−06
0.1
0.08
0.06
0.04
0.02

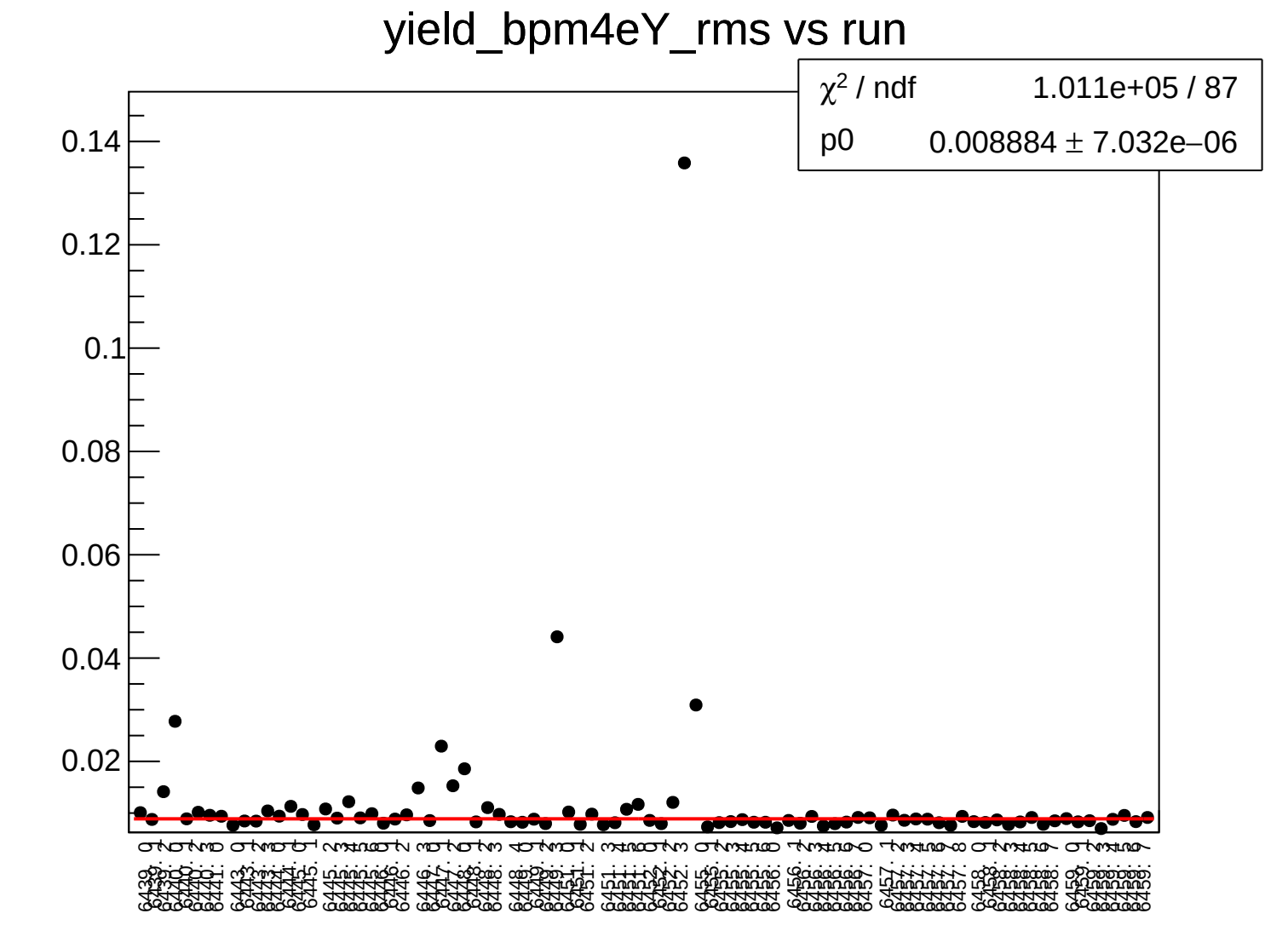

yield_bpm4eX_mean vs run
χ² / ndf 9.089e+05 / 87
p0 −0.06045 ± 1.851e−05
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 88
Mean −20
Std Dev 55.53
200
150
100
50
0
−50
−100
−150

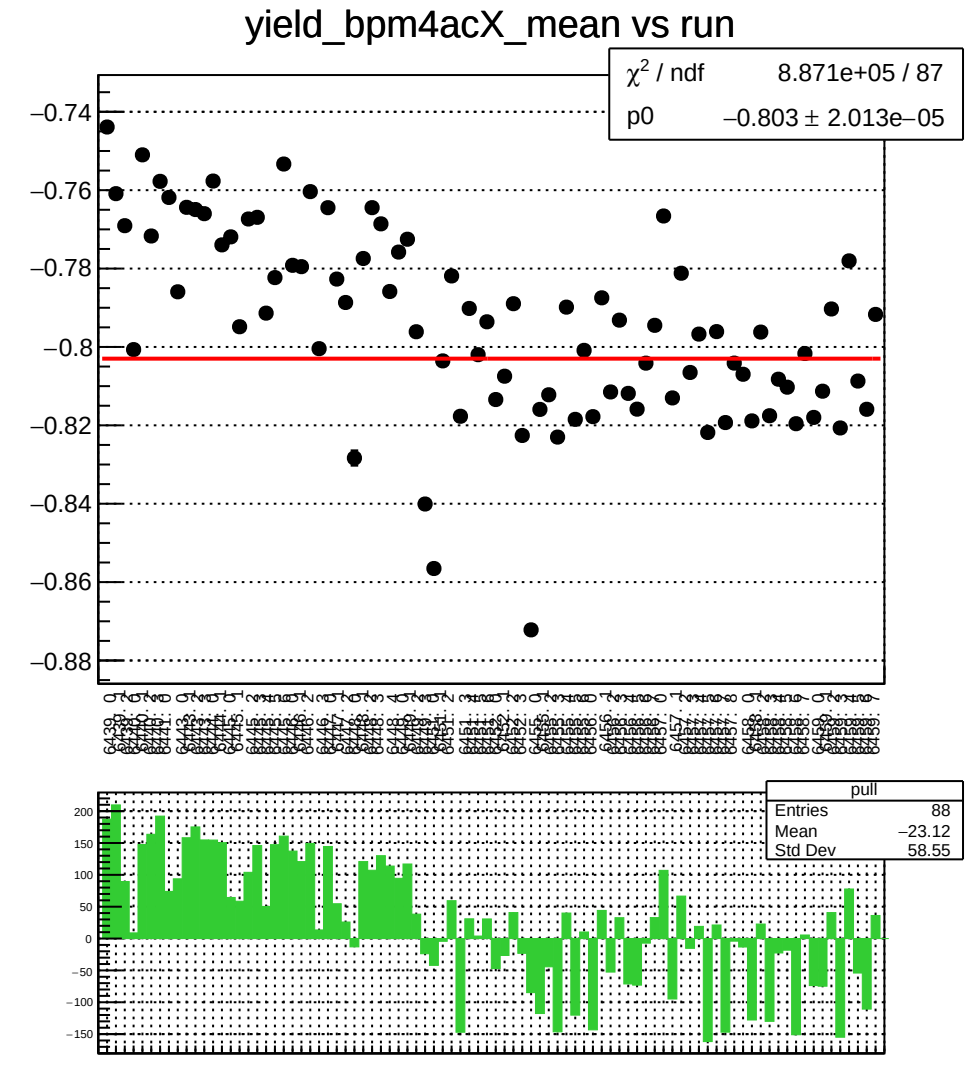

pull1D
Entries 88
Mean −2.462
Std Dev 2.848
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

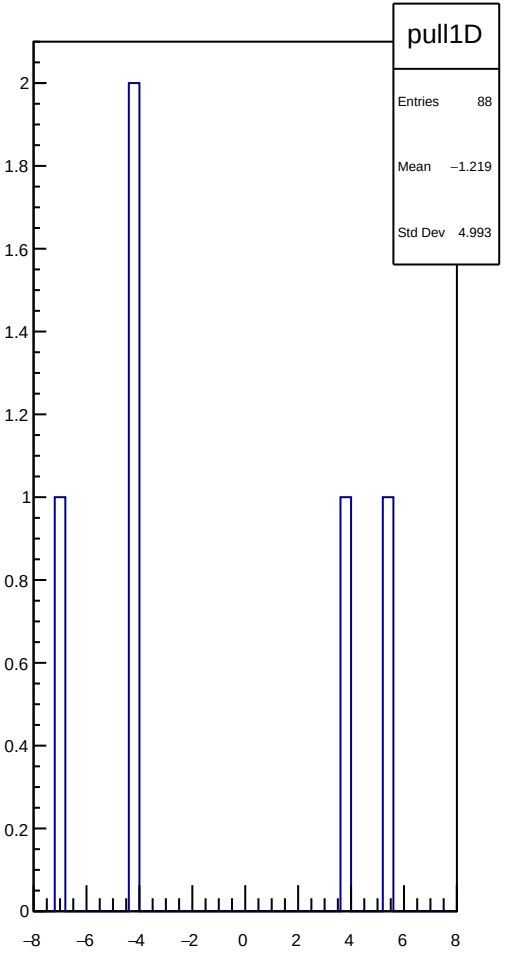

yield_bpm4eX_rms vs run
χ² / ndf 3.513e+05 / 87
p0 0.01518 ± 1.309e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

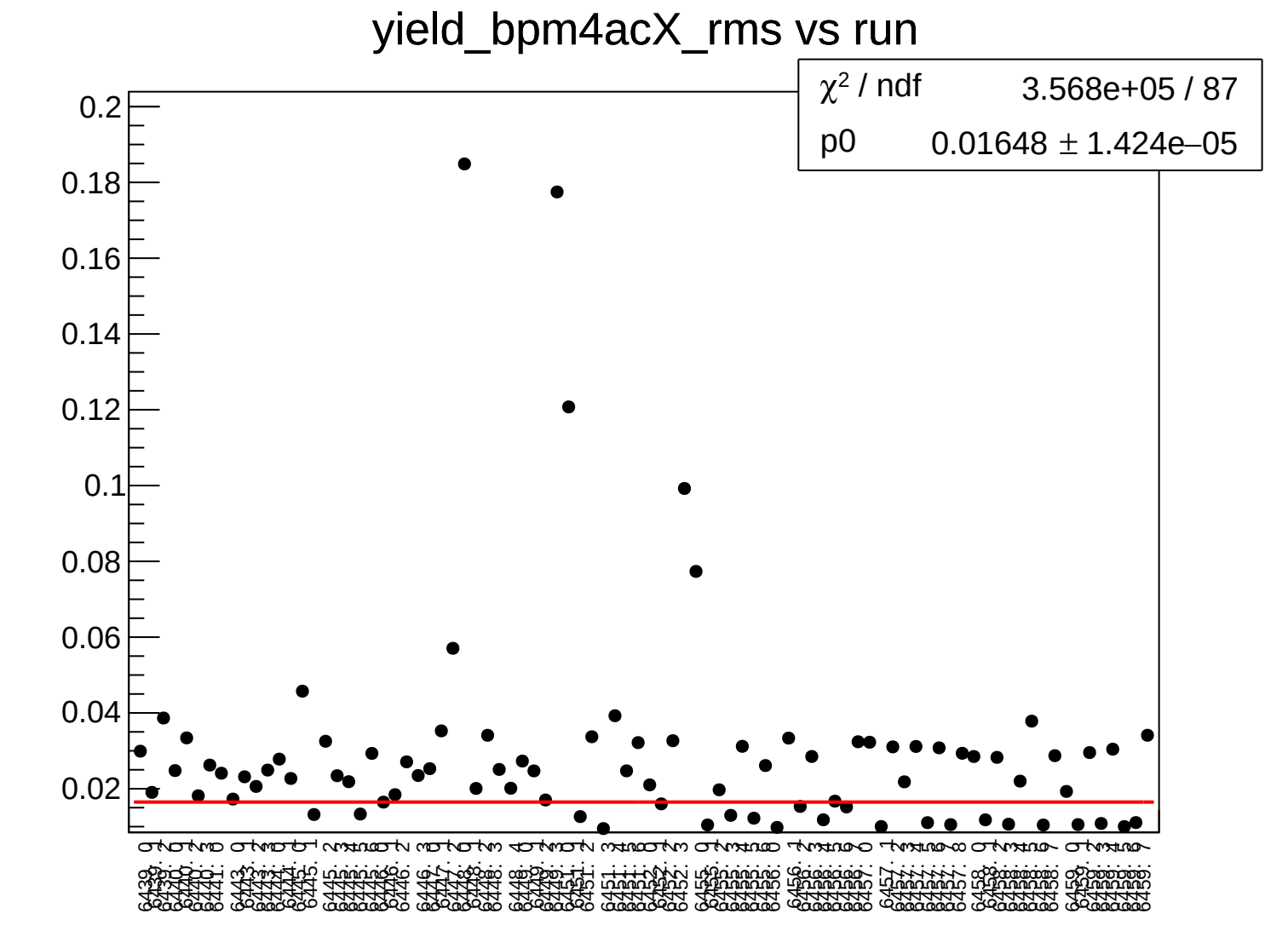

yield_bpm4eY_mean vs run
χ² / ndf 1.208e+05 / 87
p0 0.3331 ± 9.945e−06
pull
Entries 88
Mean 26.09
Std Dev 33.47

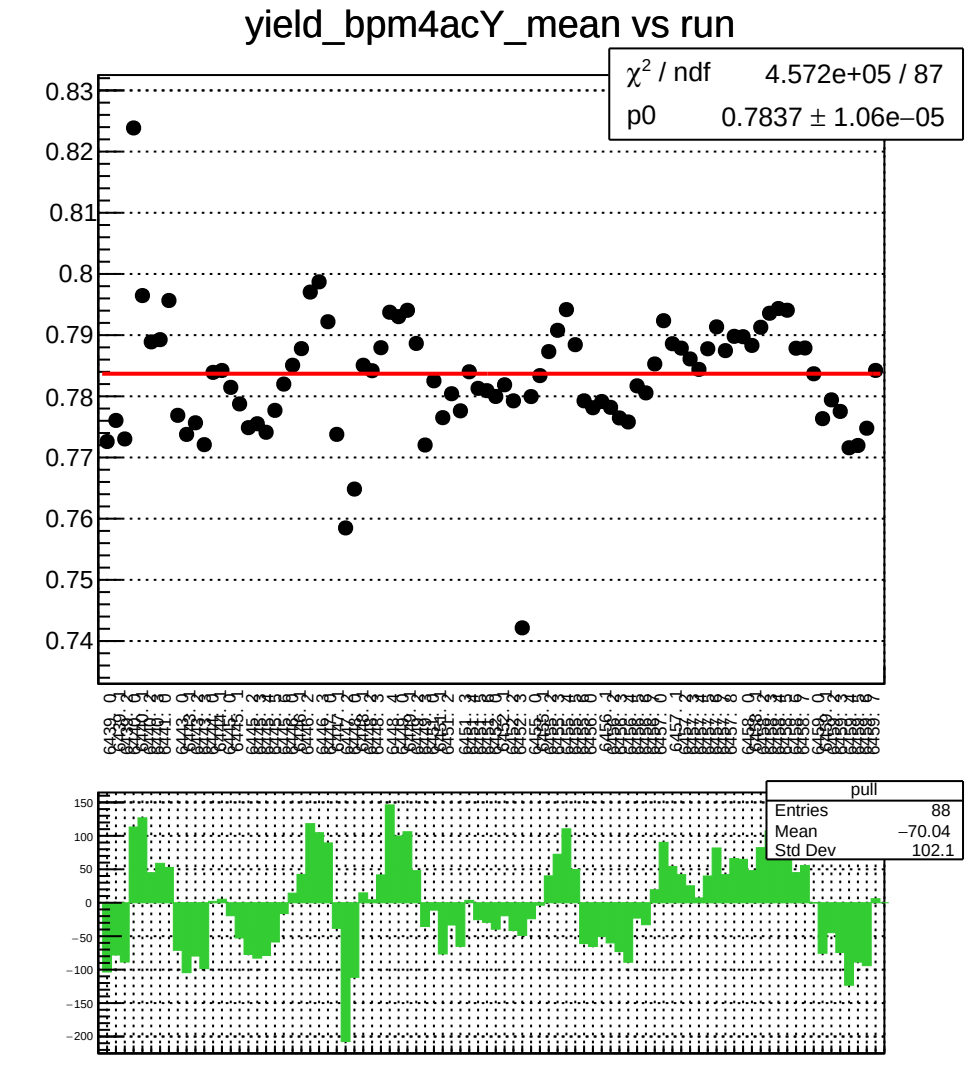

pull1D
Entries 88
Mean 1.458
Std Dev 4.246

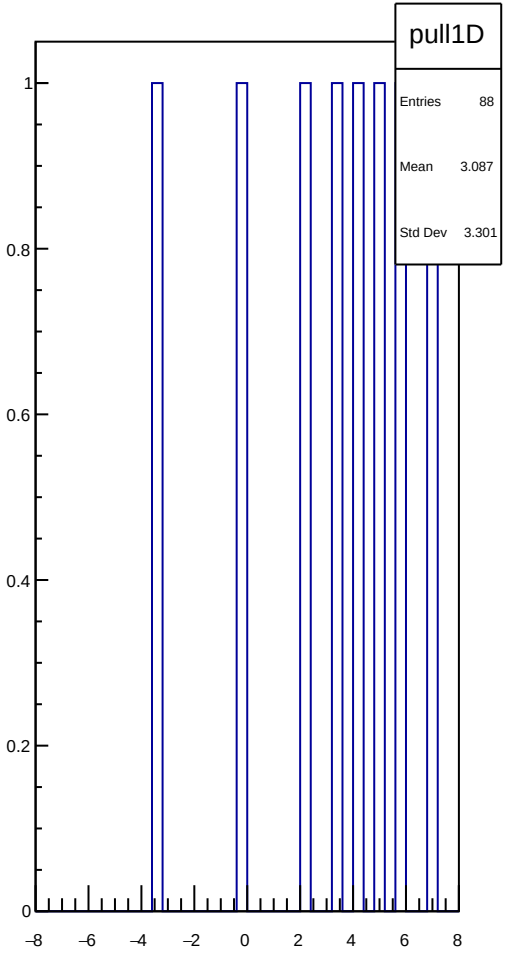

yield_bpm4eY_rms vs run
χ² / ndf 1.011e+05 / 87
p0 0.008884 ± 7.032e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

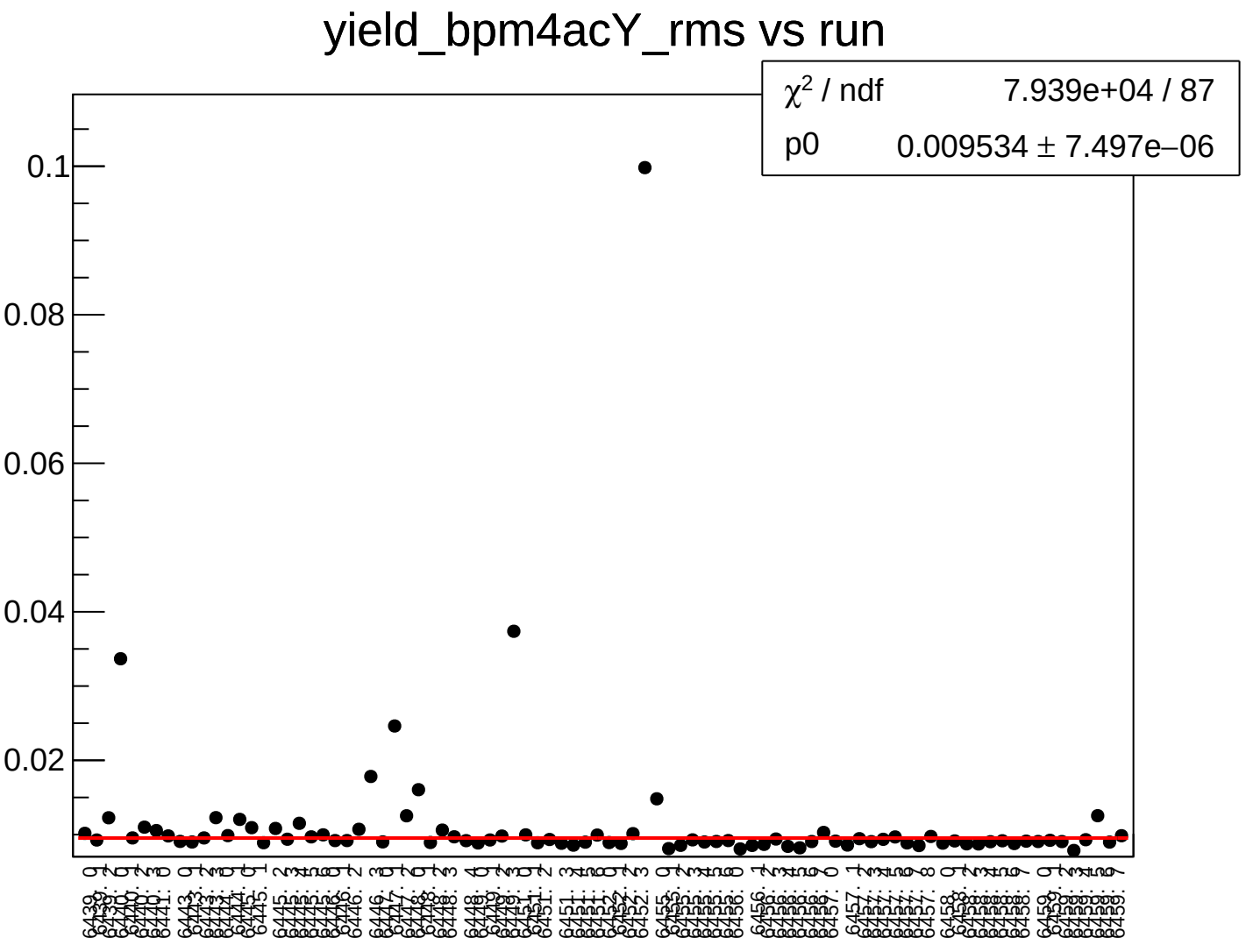

yield_bpm4acX_mean vs run
χ² / ndf 8.871e+05 / 87
p0 −0.803 ± 2.013e−05
−0.74
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
pull
Entries 88
Mean −23.12
Std Dev 58.55
200
150
100
50
0
−50
−100
−150

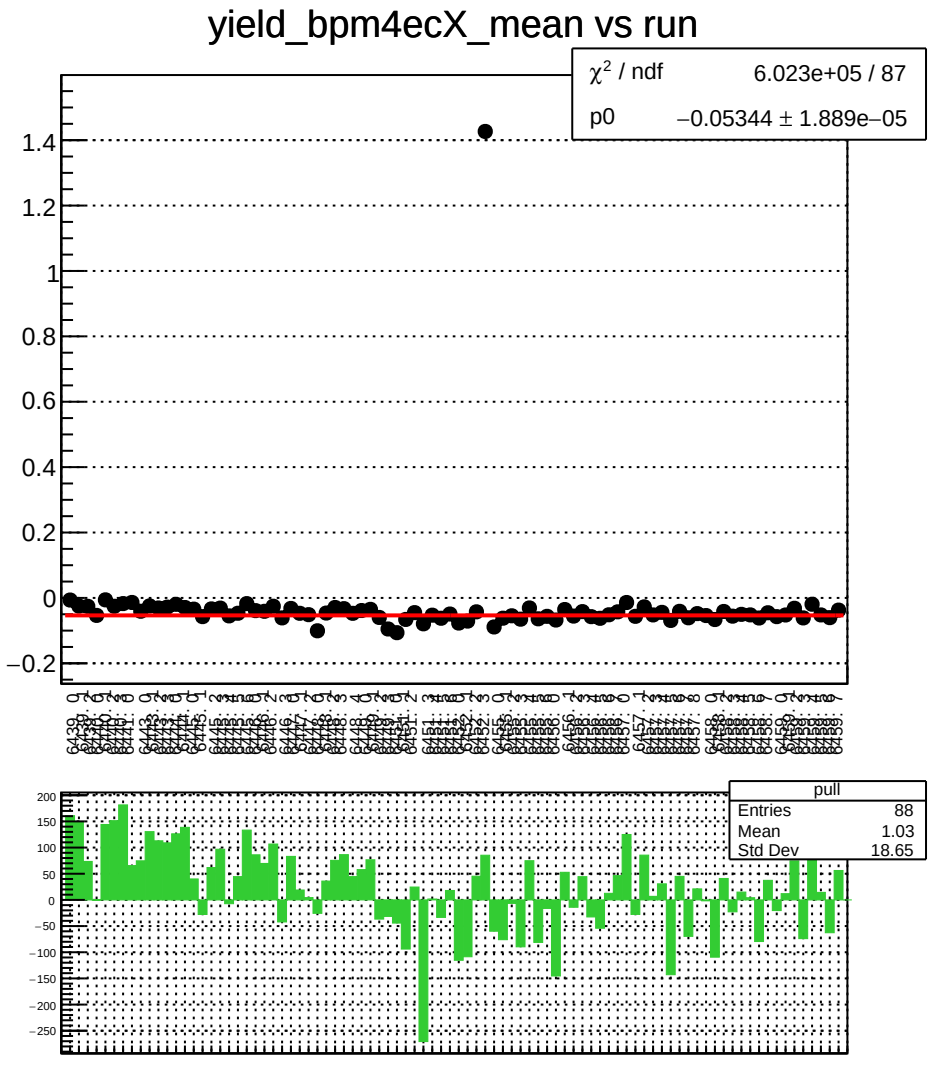

pull1D
Entries 88
Mean −1.219
Std Dev 4.993
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

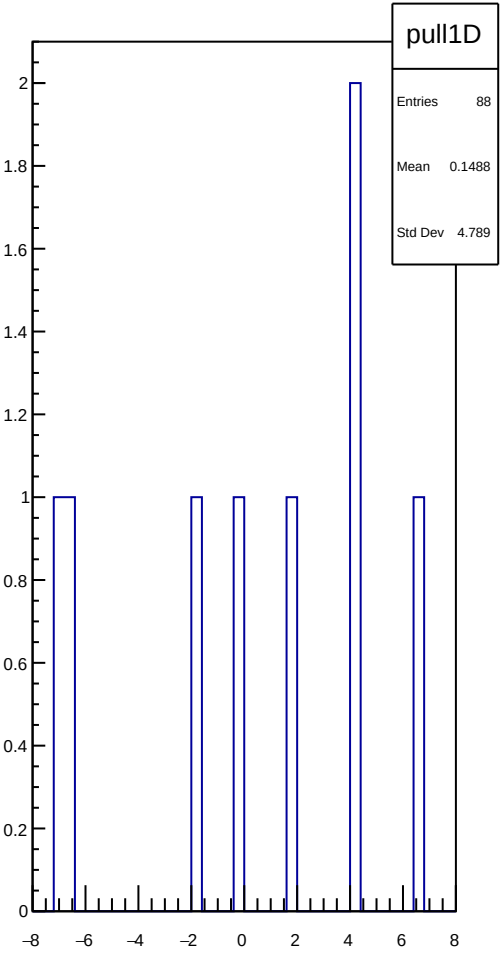

yield_bpm4acX_rms vs run
χ^2 / ndf 3.568e+05 / 87
p0 0.01648 ± 1.424e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

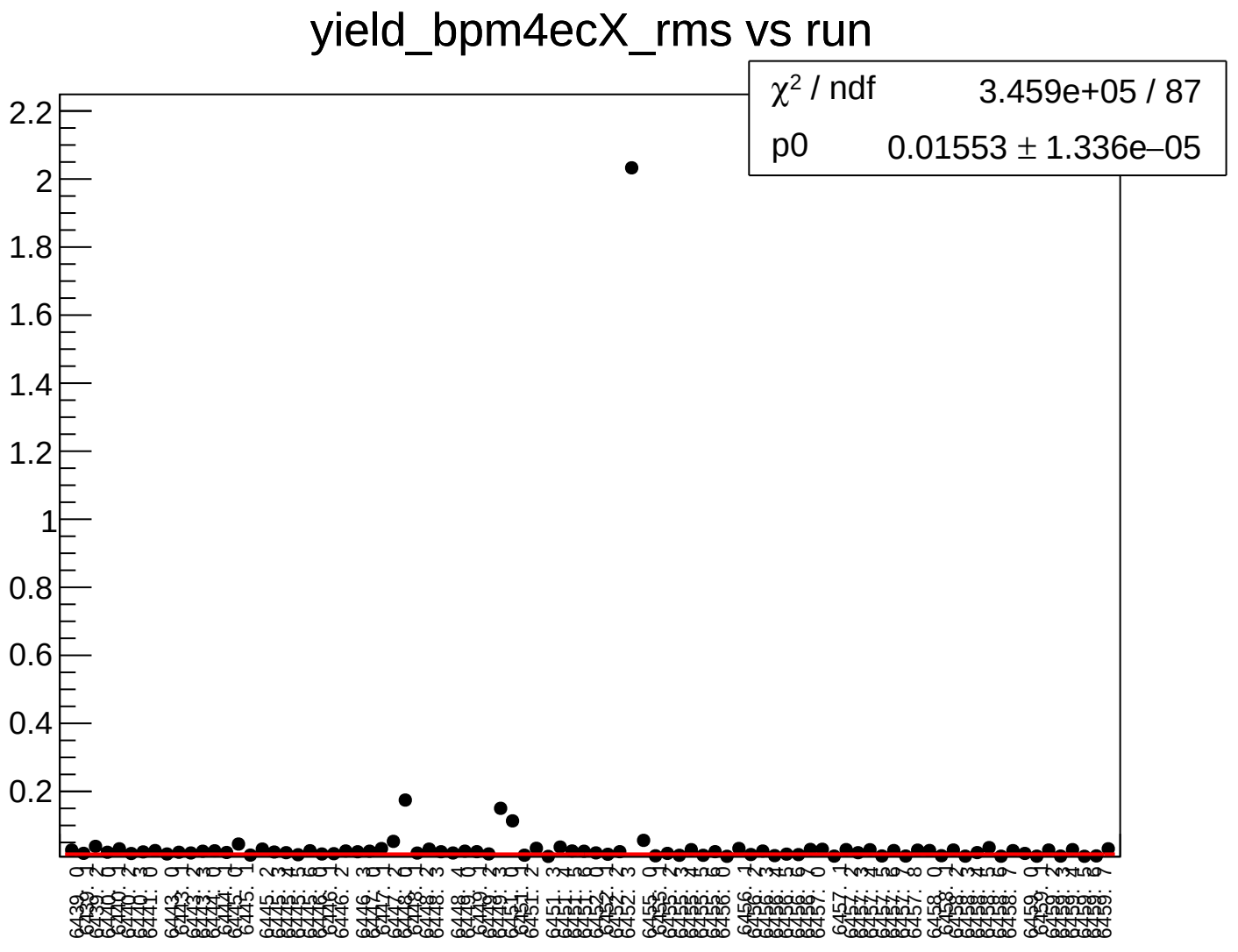

yield_bpm4acY_mean vs run
χ² / ndf 4.572e+05 / 87
p0 0.7837 ± 1.06e−05
pull
Entries 88
Mean −70.04
Std Dev 102.1

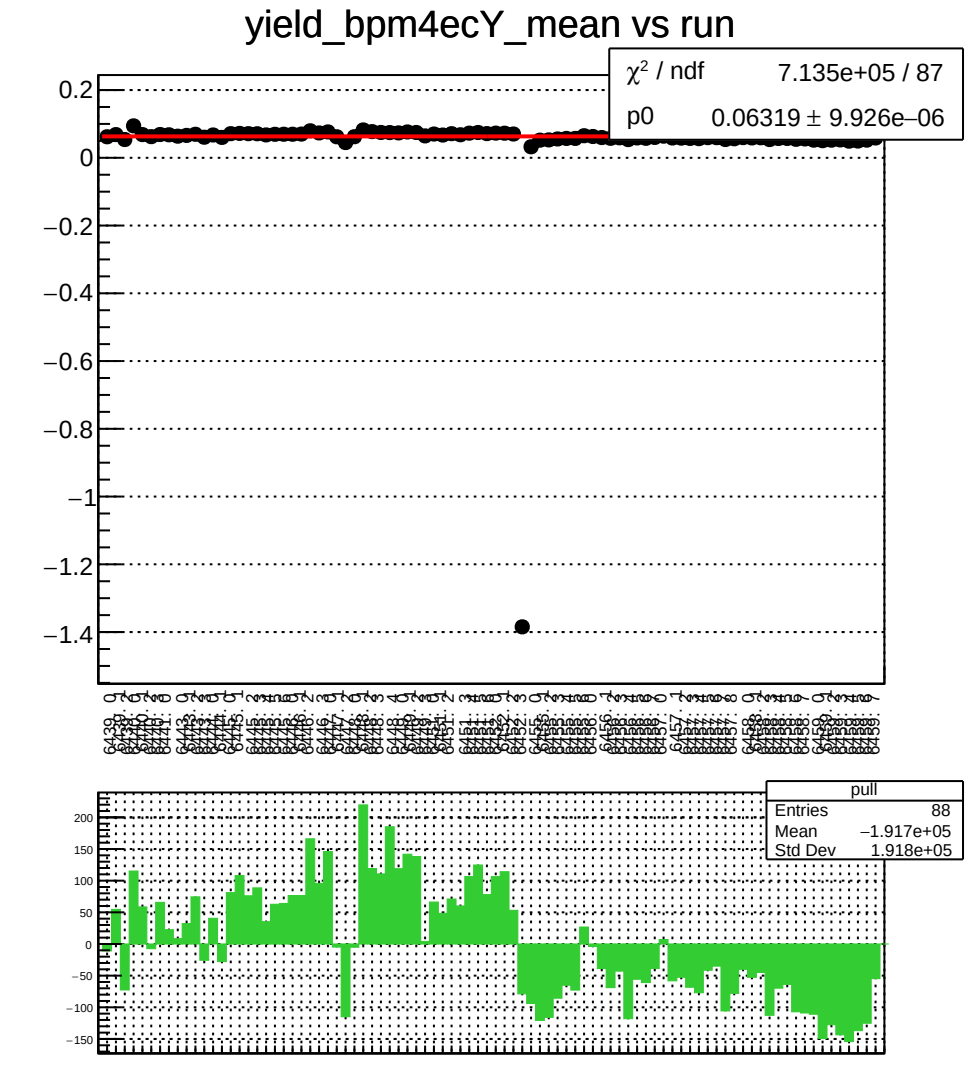

pull1D
Entries 88
Mean 3.087
Std Dev 3.301

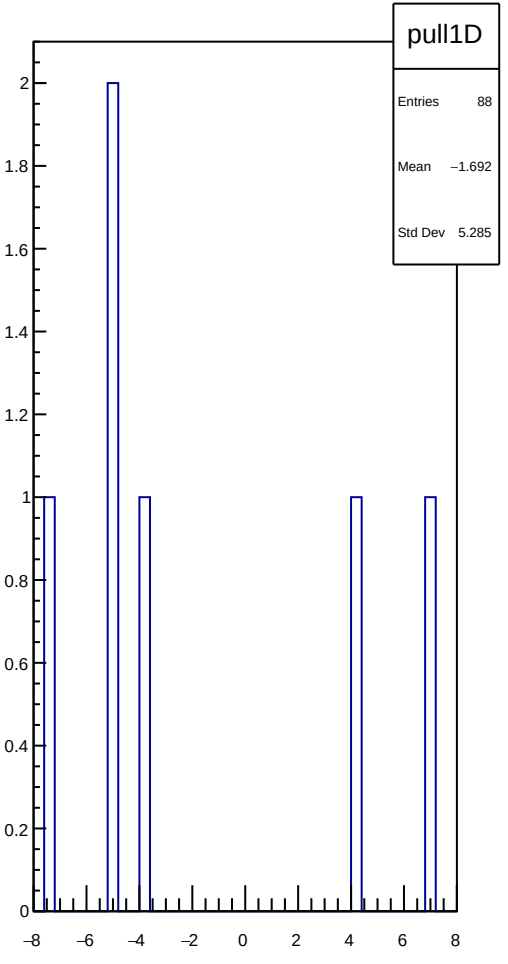

yield_bpm4acY_rms vs run
χ² / ndf 7.939e+04 / 87
p0 0.009534 ± 7.497e−06
0.1
0.08
0.06
0.04
0.02

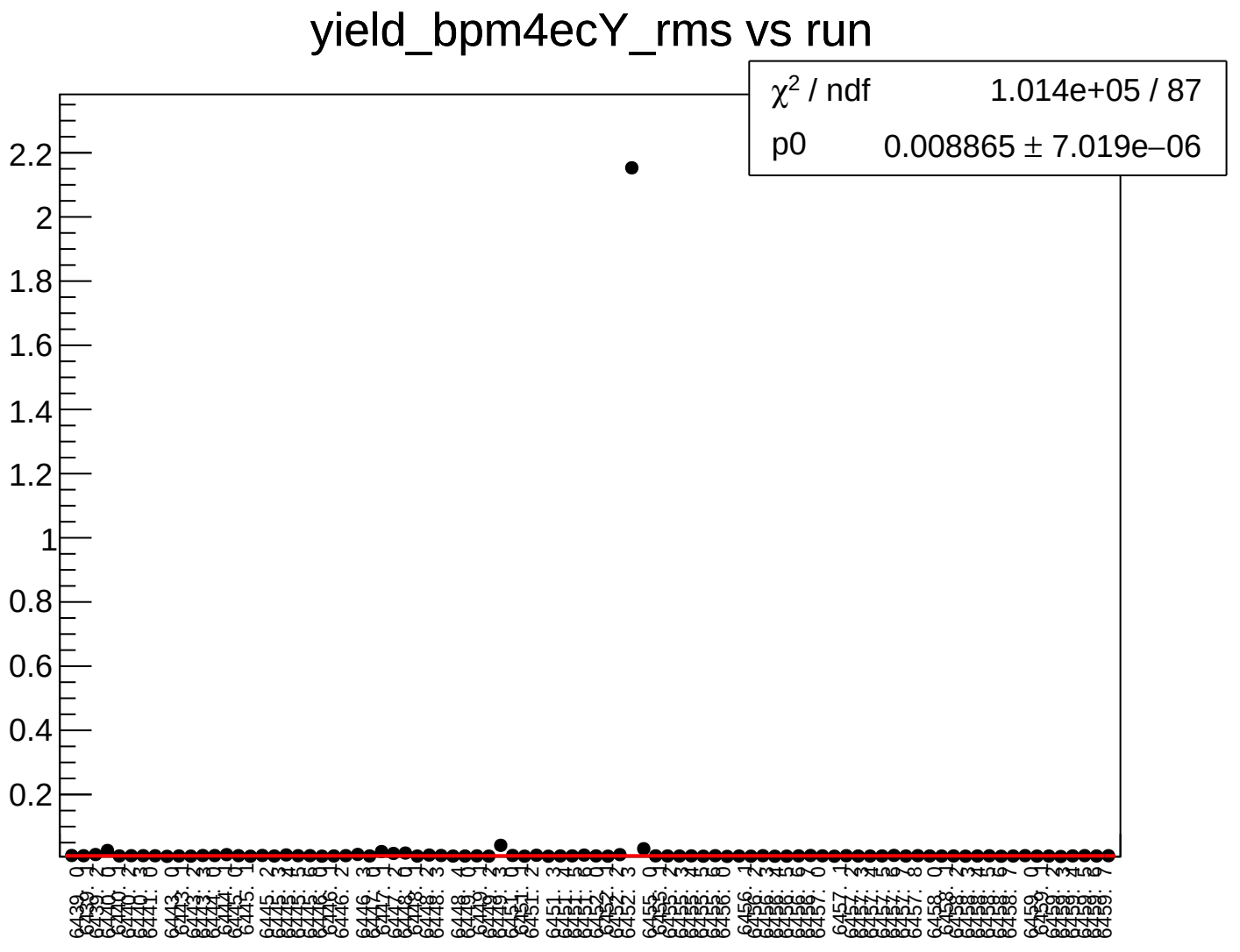

yield_bpm4ecX_mean vs run
χ² / ndf 6.023e+05 / 87
p0 −0.05344 ± 1.889e−05
pull
Entries 88
Mean 1.03
Std Dev 18.65

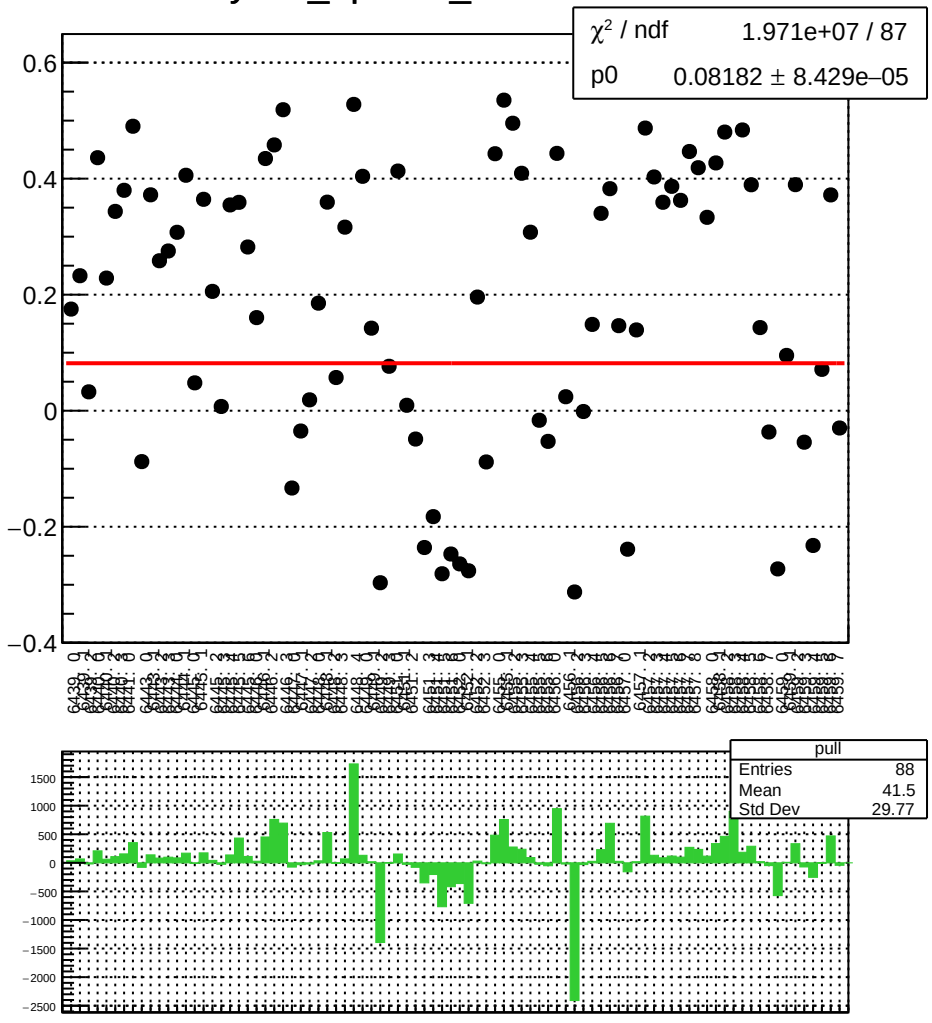

pull1D
Entries 88
Mean 0.1488
Std Dev 4.789

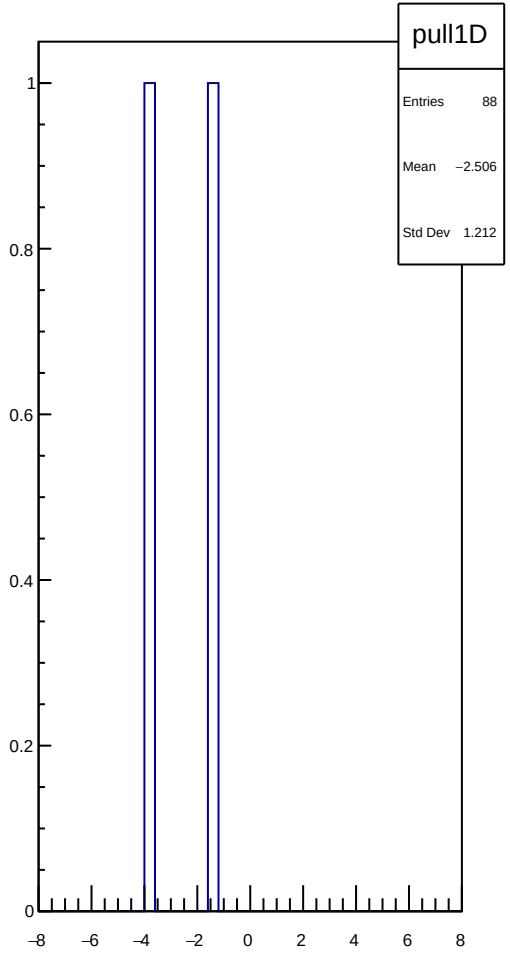

yield_bpm4ecX_rms vs run
χ² / ndf 3.459e+05 / 87
p0 0.01553 ± 1.336e–05
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

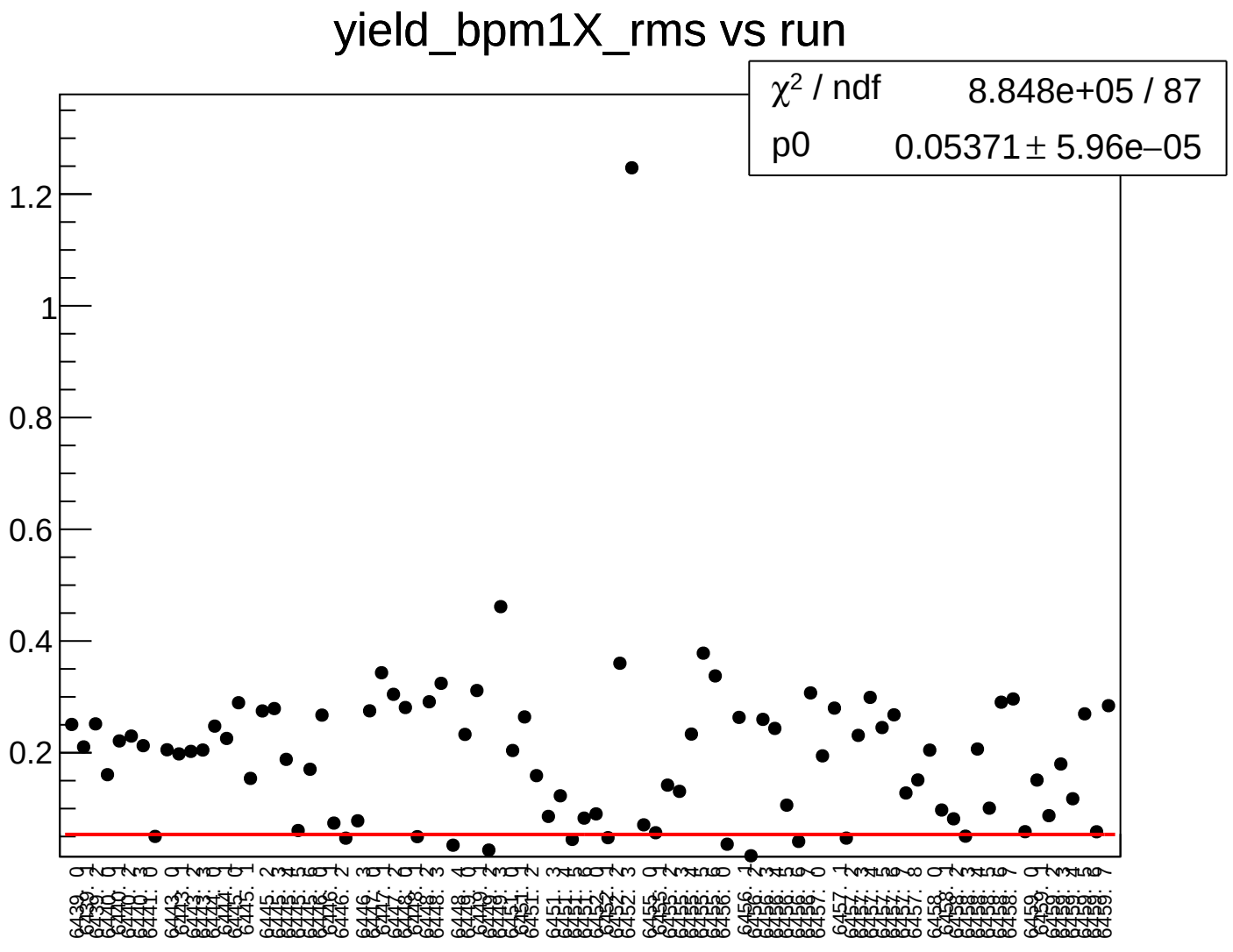

yield_bpm4ecY_mean vs run
χ² / ndf 7.135e+05 / 87
p0 0.06319 ± 9.926e−06
pull
Entries 88
Mean −1.917e+05
Std Dev 1.918e+05

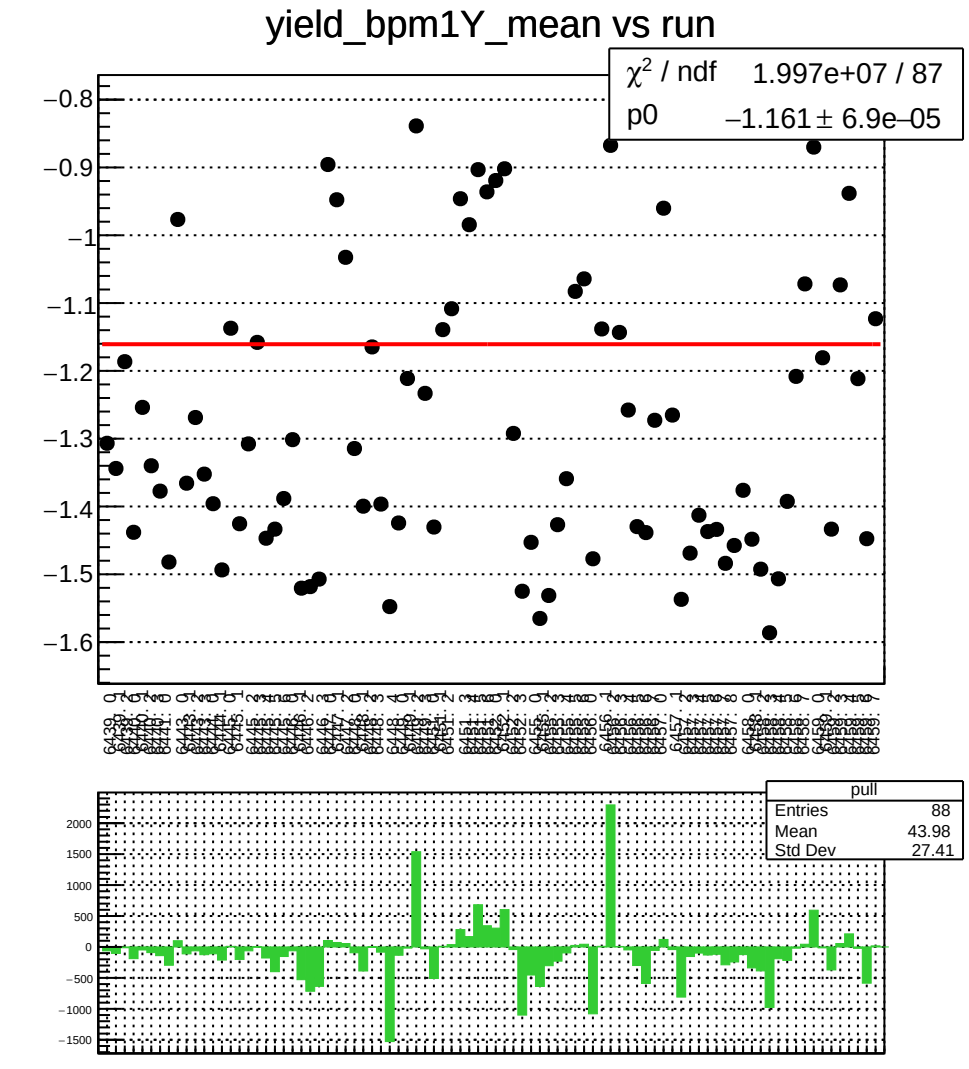

pull1D
Entries 88
Mean −1.692
Std Dev 5.285

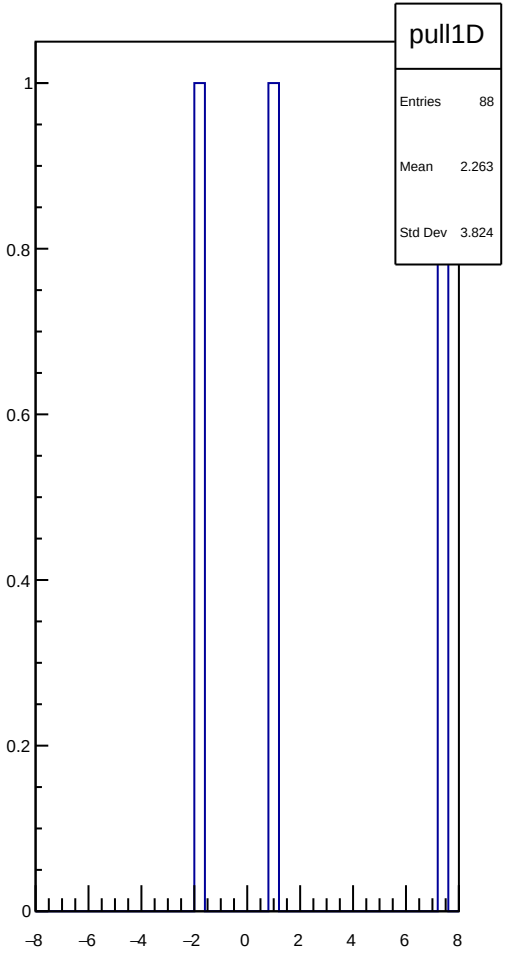

yield_bpm4ecY_rms vs run
χ² / ndf 1.014e+05 / 87
p0 0.008865 ± 7.019e−06
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

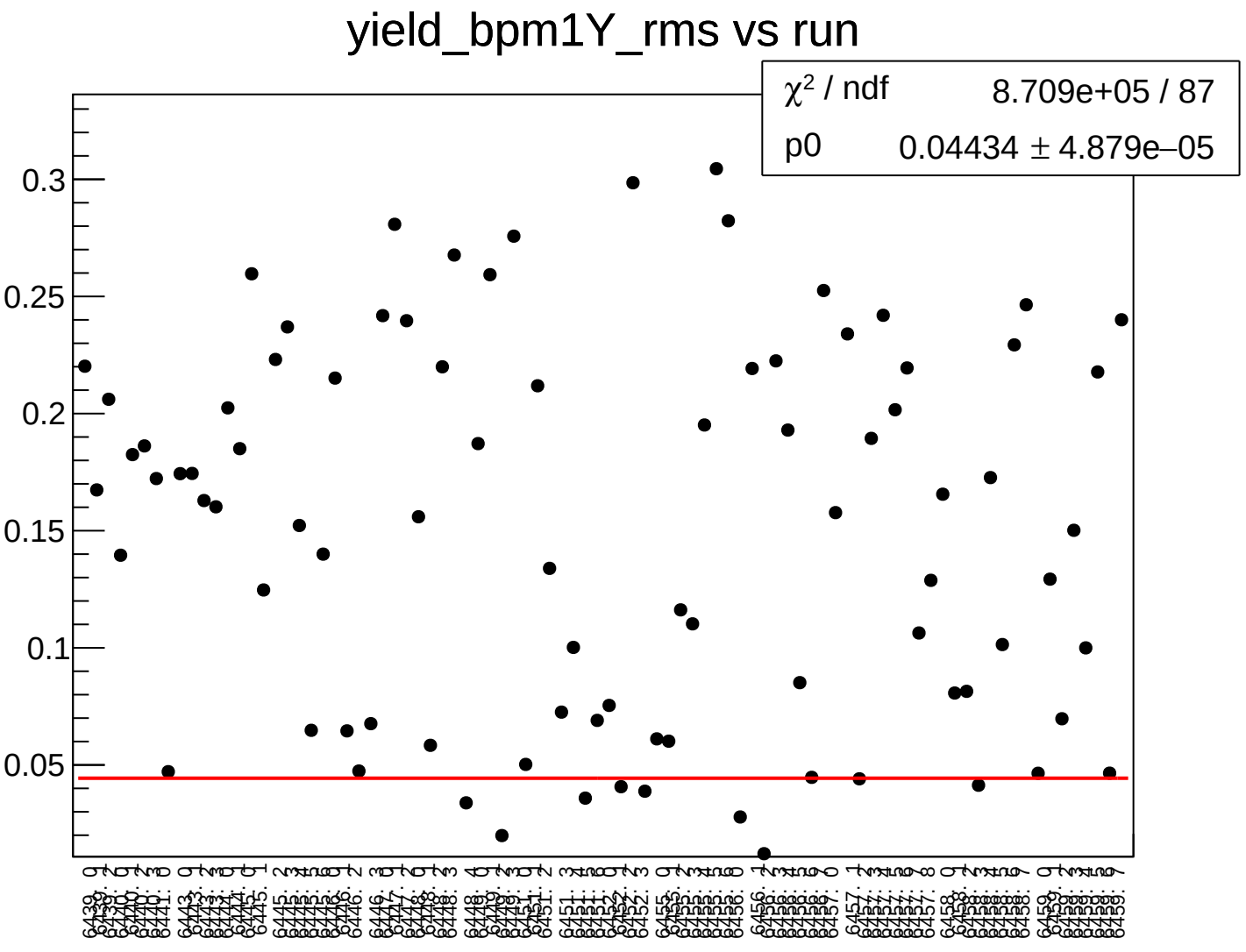

yield_bpm1X_mean vs run
χ² / ndf 1.971e+07 / 87
p0 0.08182 ± 8.429e−05
pull
Entries 88
Mean 41.5
Std Dev 29.77

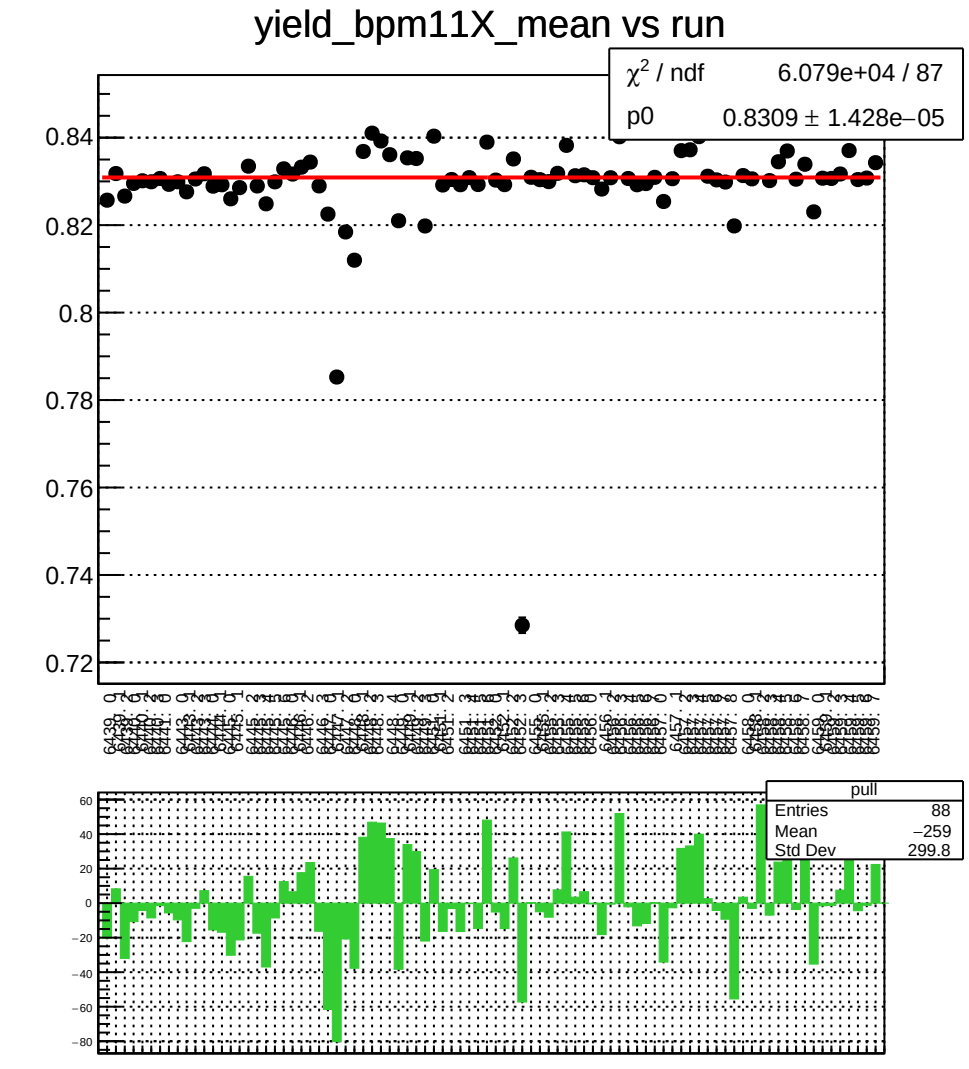

pull1D
Entries 88
Mean −2.506
Std Dev 1.212

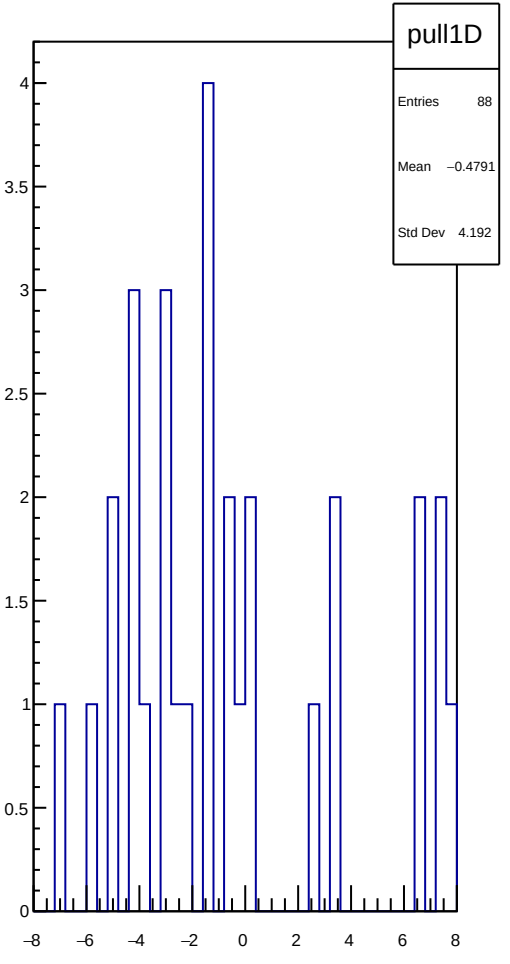

yield_bpm1X_rms vs run
χ² / ndf 8.848e+05 / 87
p0 0.05371 ± 5.96e−05
1.2
1
0.8
0.6
0.4
0.2

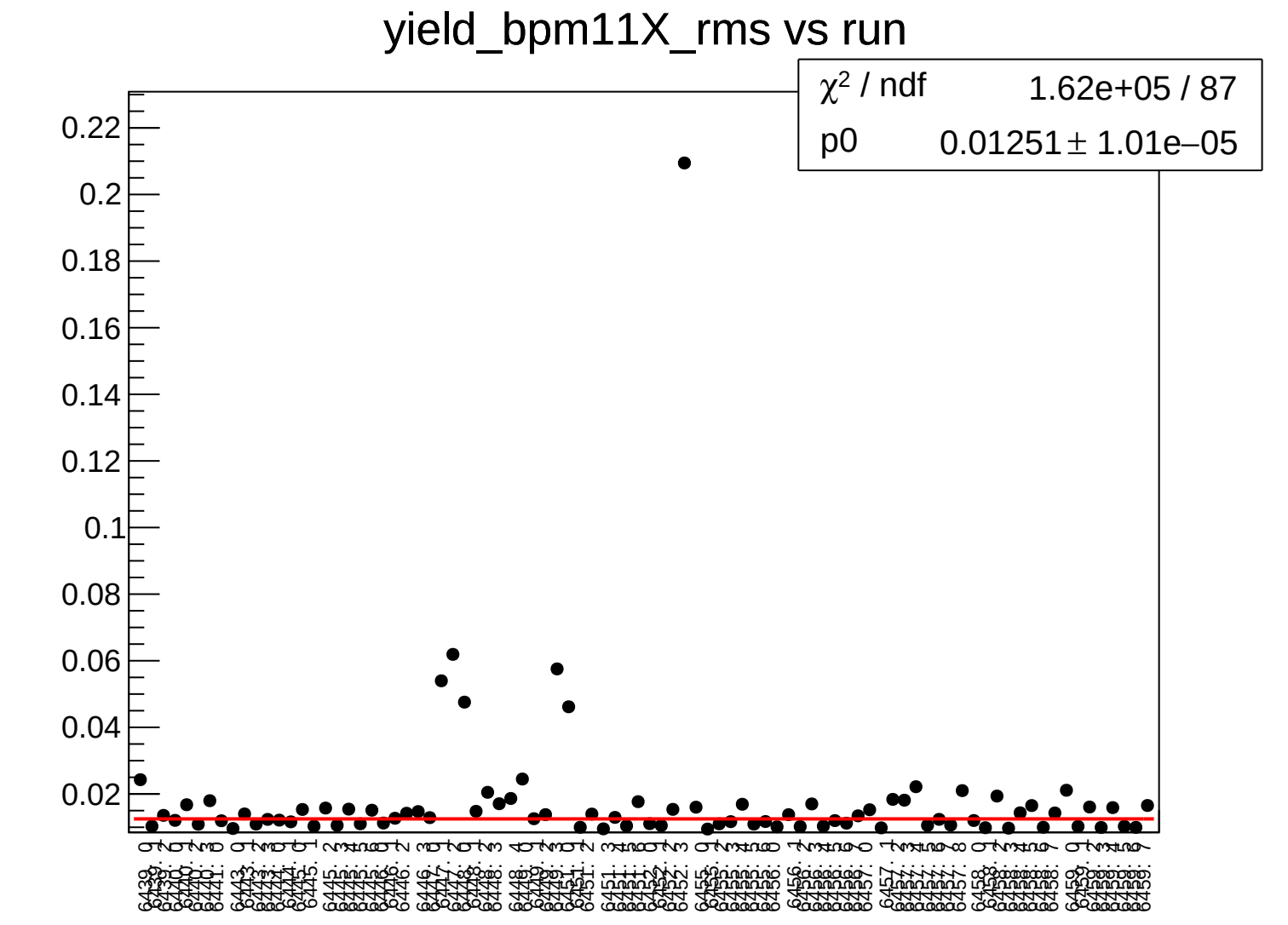

yield_bpm1Y_mean vs run
χ² / ndf 1.997e+07 / 87
p0 −1.161 ± 6.9e−05
pull
Entries 88
Mean 43.98
Std Dev 27.41

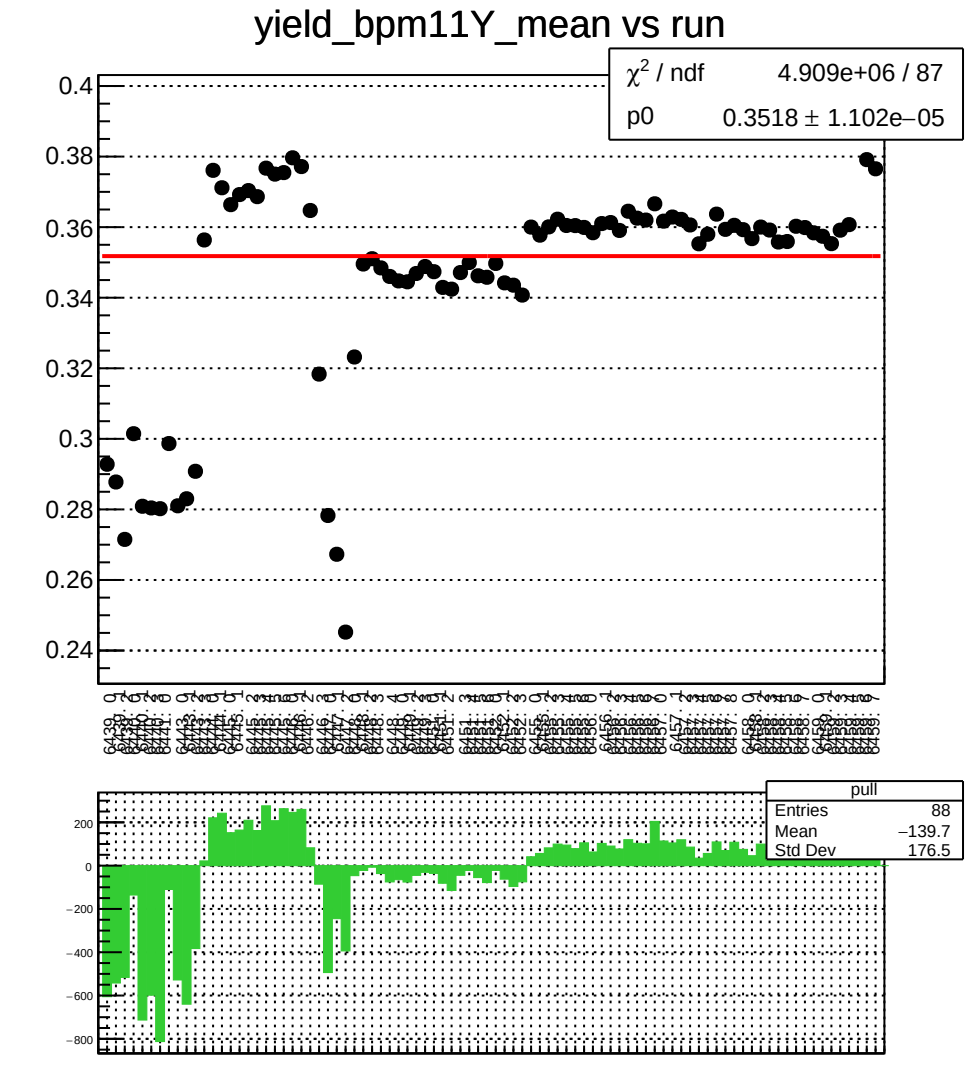

pull1D
Entries 88
Mean 2.263
Std Dev 3.824

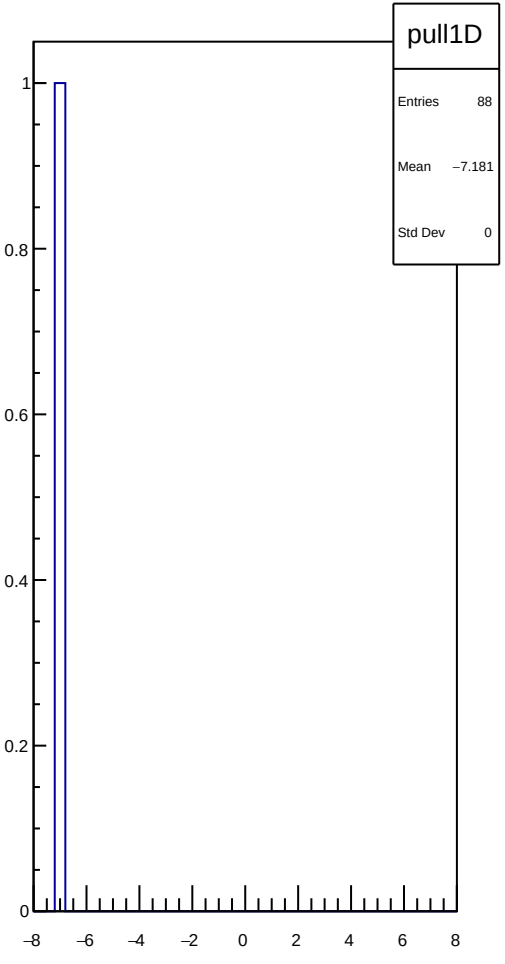

yield_bpm1Y_rms vs run
χ² / ndf 8.709e+05 / 87
p0 0.04434 ± 4.879e−05
0.3
0.25
0.2
0.15
0.1
0.05

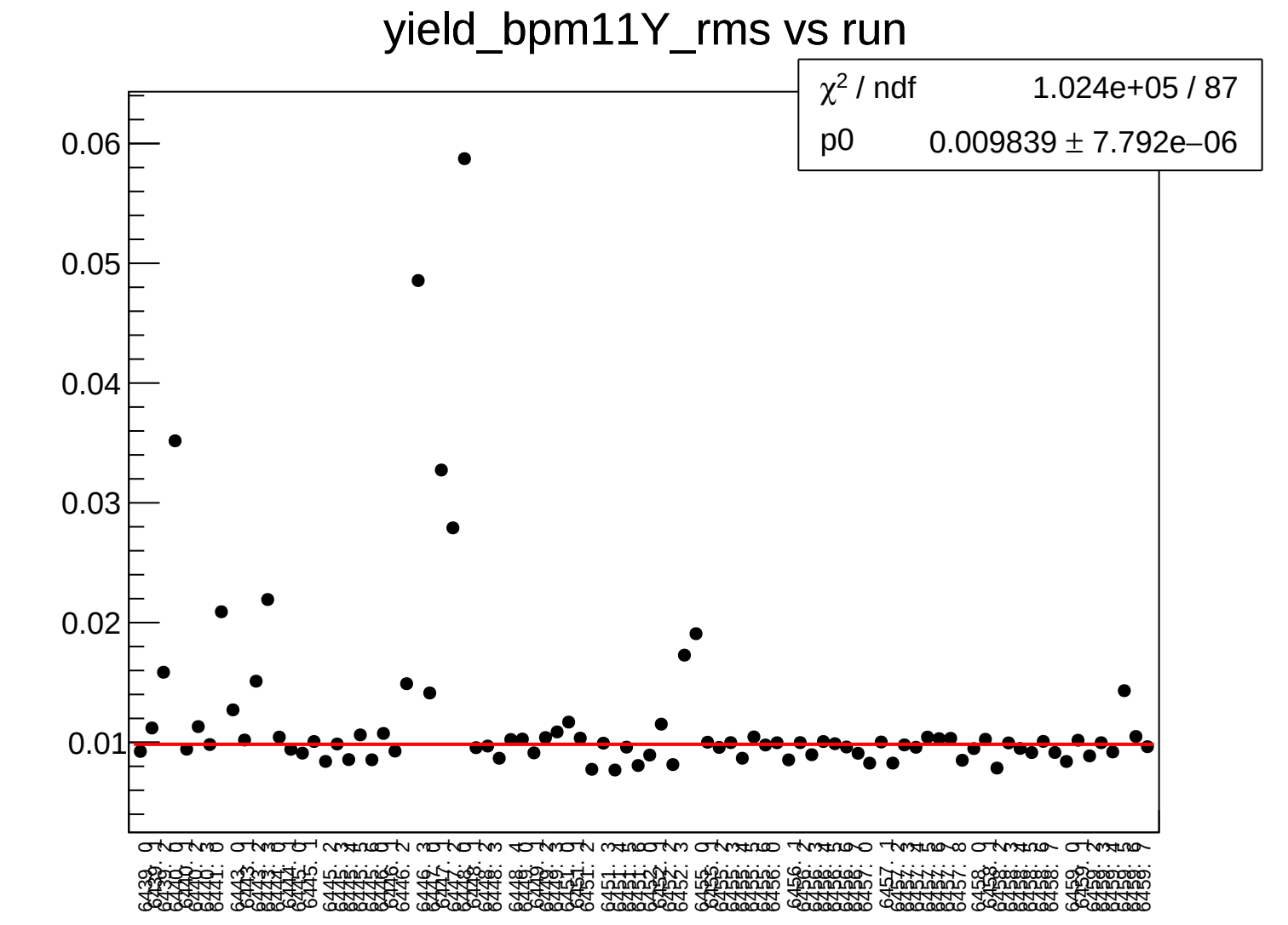

yield_bpm11X_mean vs run
χ² / ndf 6.079e+04 / 87
p0 0.8309 ± 1.428e−05
0.84
0.82
0.8
0.78
0.76
0.74
0.72
pull
Entries 88
Mean −259
Std Dev 299.8
60
40
20
0
−20
−40
−60
−80

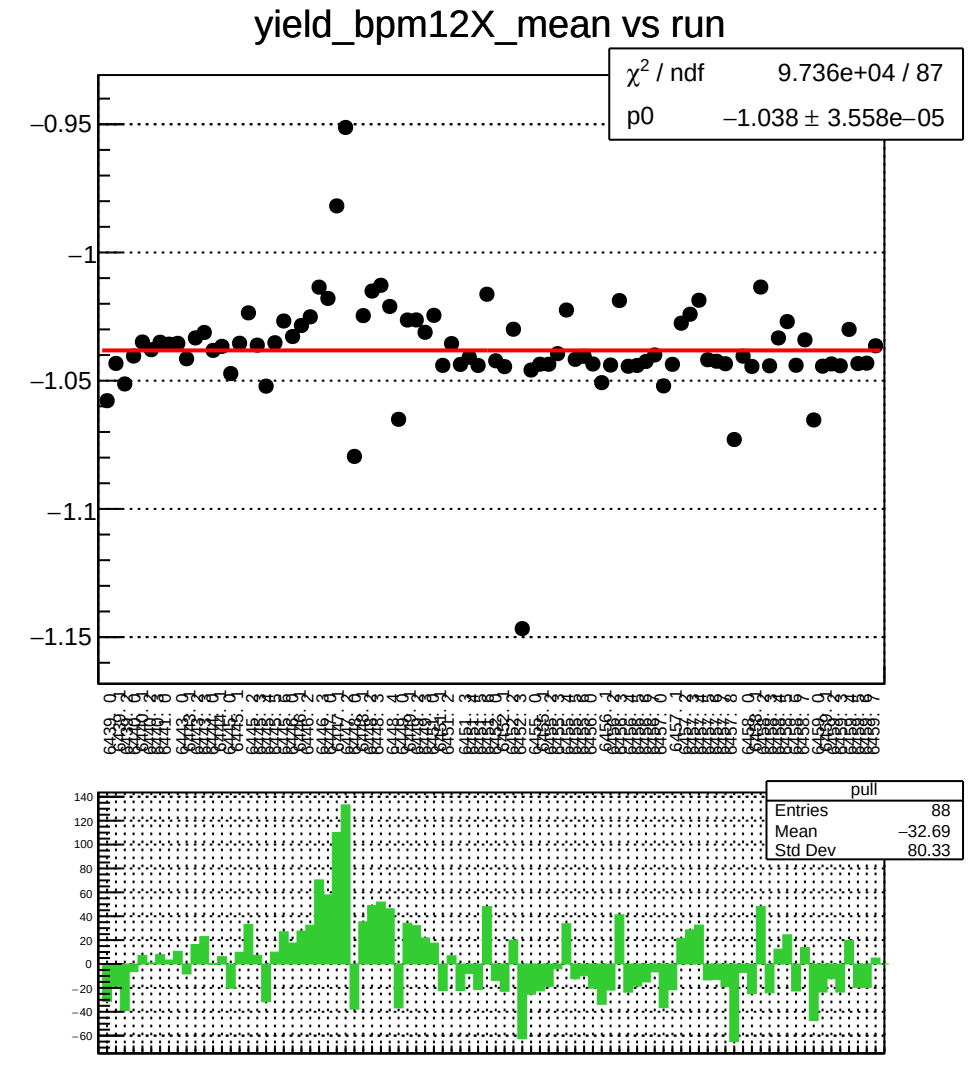

pull1D
Entries 88
Mean −0.4791
Std Dev 4.192
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

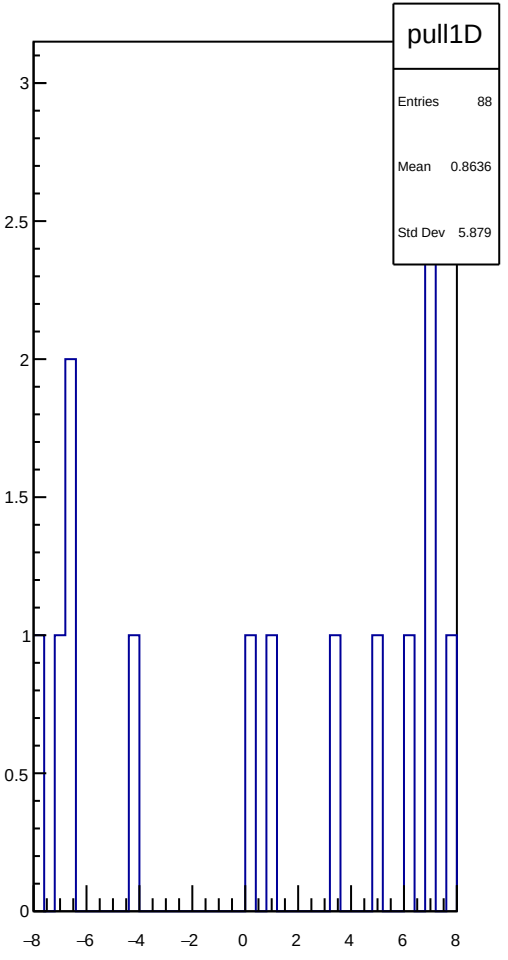

yield_bpm11X_rms vs run
χ² / ndf 1.62e+05 / 87
p0 0.01251 ± 1.01e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

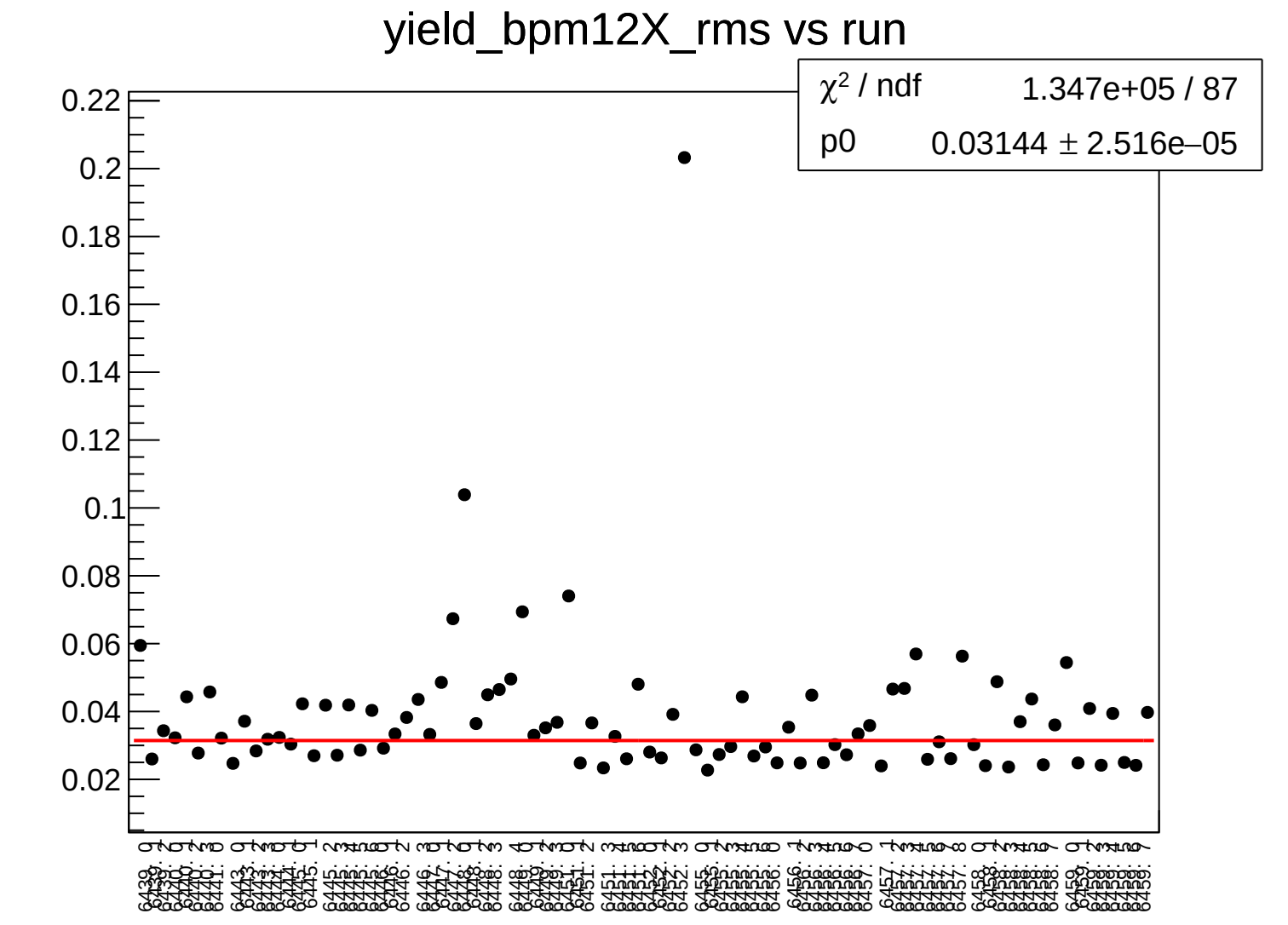

yield_bpm11Y_mean vs run
χ² / ndf 4.909e+06 / 87
p0 0.3518 ± 1.102e−05
pull
Entries 88
Mean −139.7
Std Dev 176.5

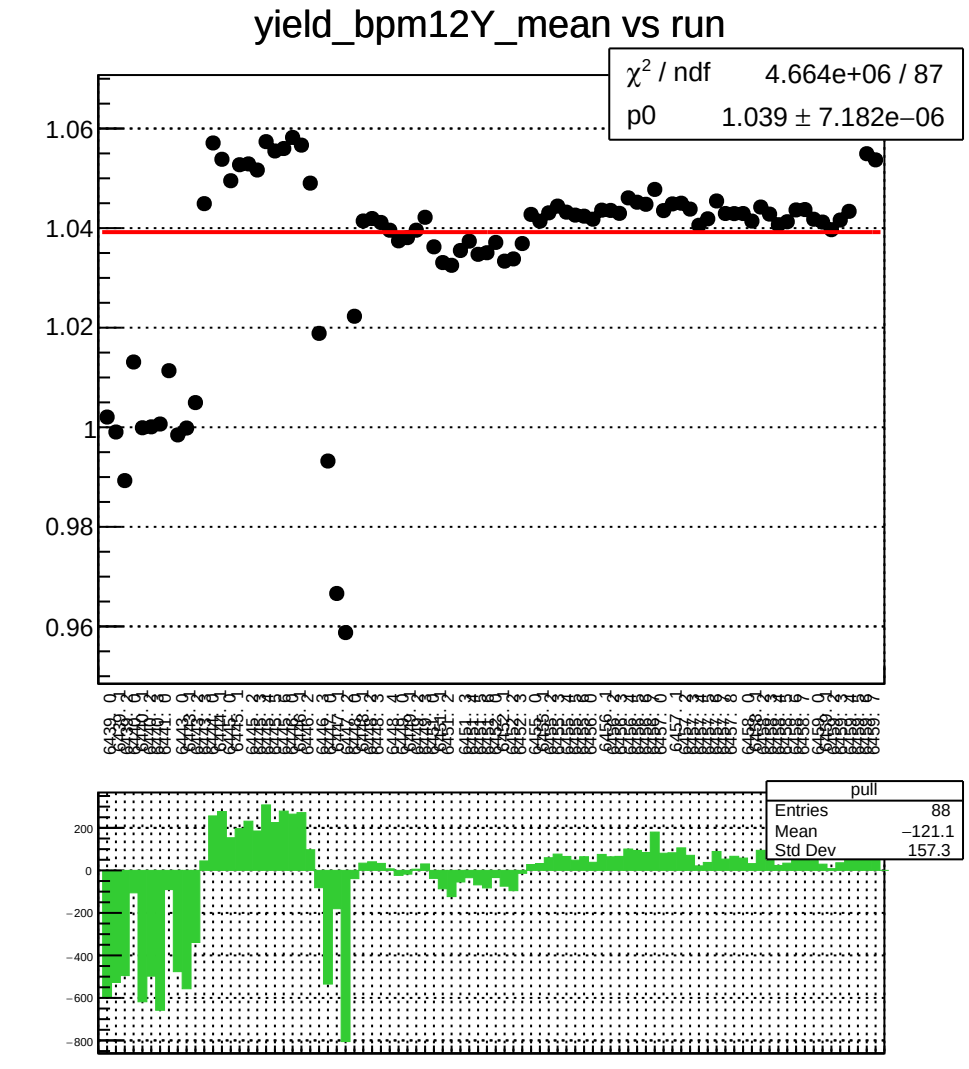

pull1D
Entries 88
Mean −7.181
Std Dev 0

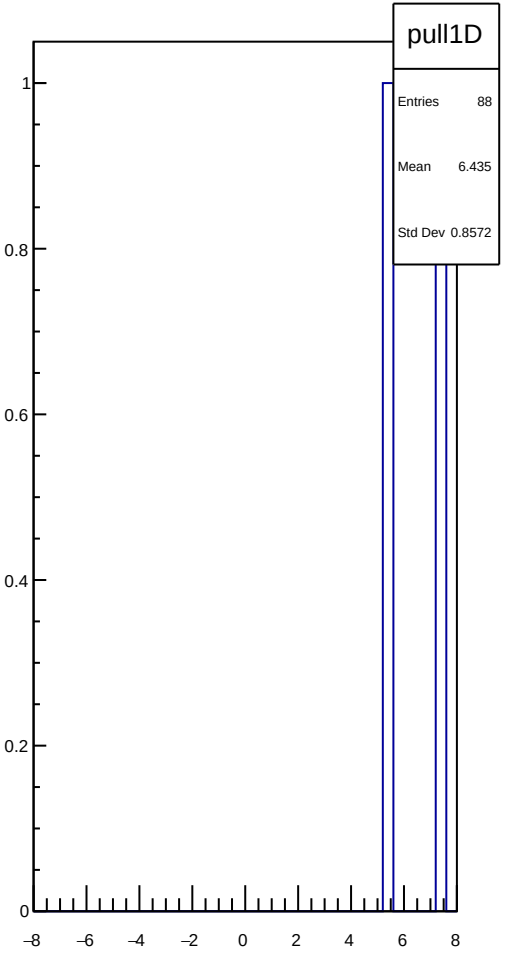

yield_bpm11Y_rms vs run
χ² / ndf 1.024e+05 / 87
p0 0.009839 ± 7.792e−06
0.06
0.05
0.04
0.03
0.02
0.01

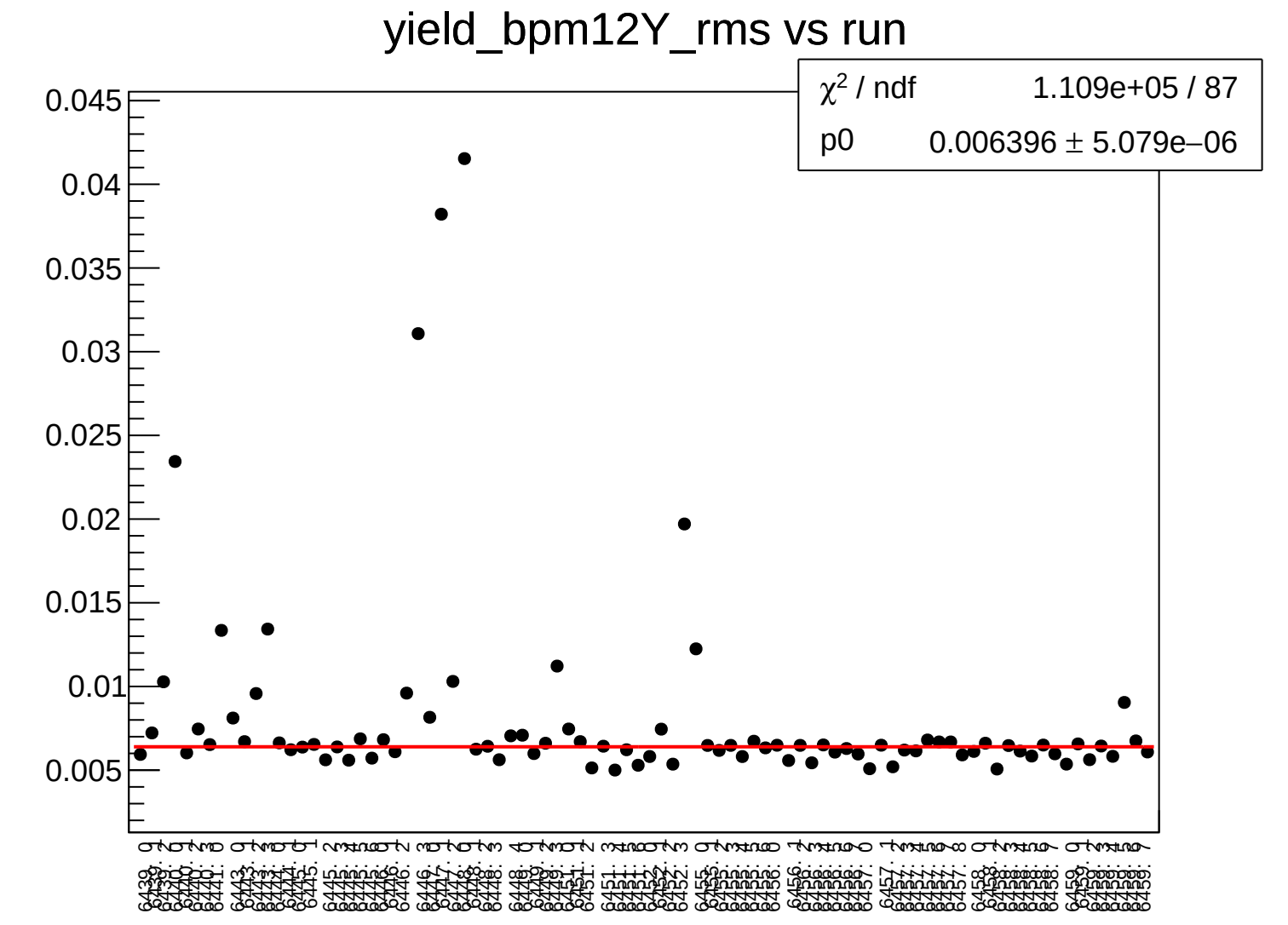

yield_bpm12X_mean vs run
χ² / ndf 9.736e+04 / 87
p0 −1.038 ± 3.558e−05
−0.95
−1
−1.05
−1.1
−1.15
pull
Entries 88
Mean −32.69
Std Dev 80.33
140
120
100
80
60
40
20
0
−20
−40
−60

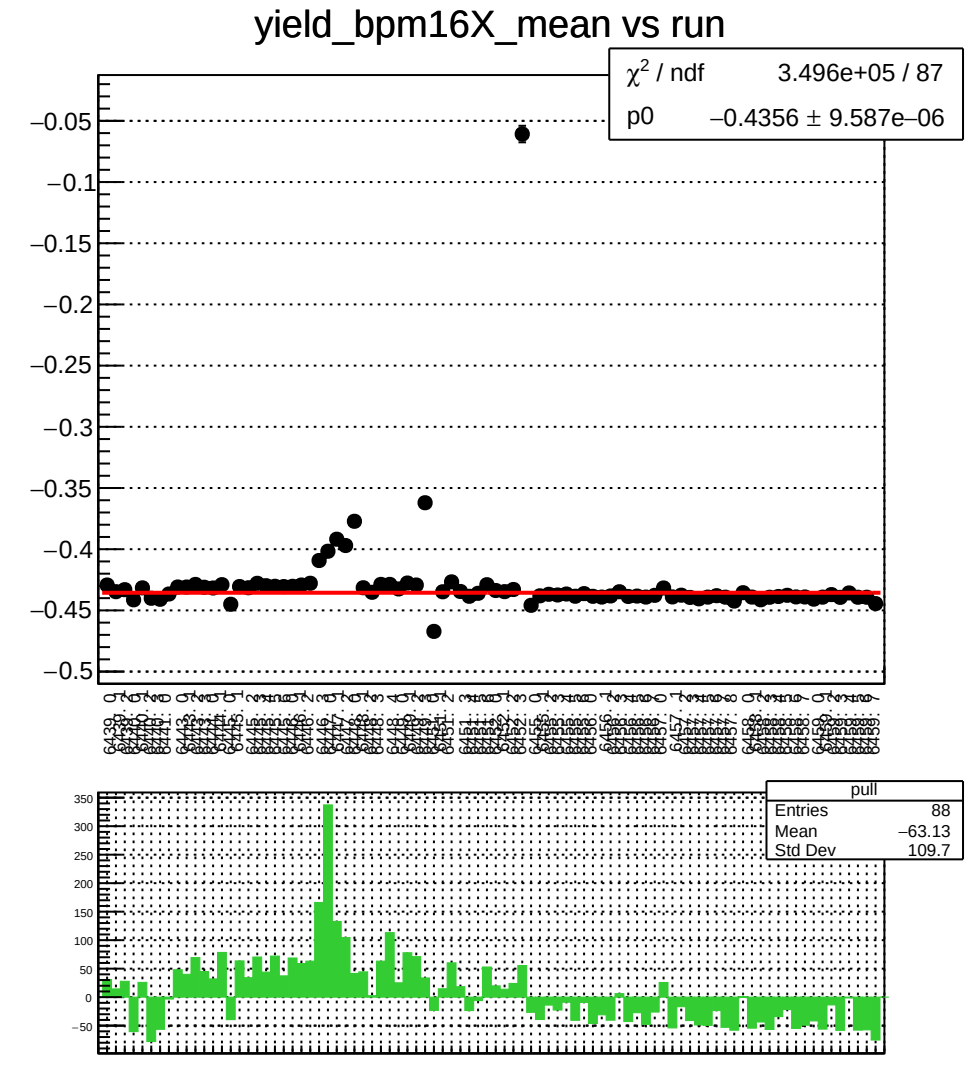

pull1D
Entries 88
Mean 0.8636
Std Dev 5.879
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

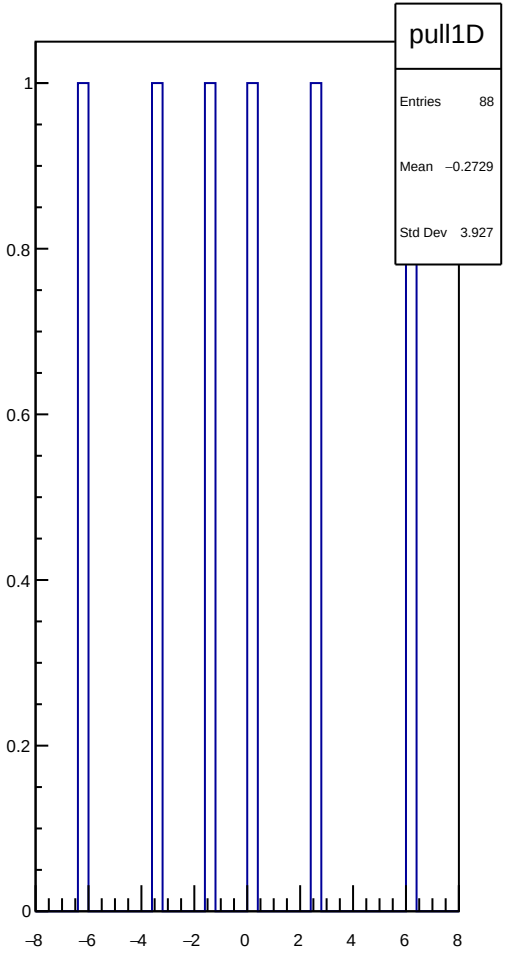

yield_bpm12X_rms vs run
χ² / ndf 1.347e+05 / 87
p0 0.03144 ± 2.516e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

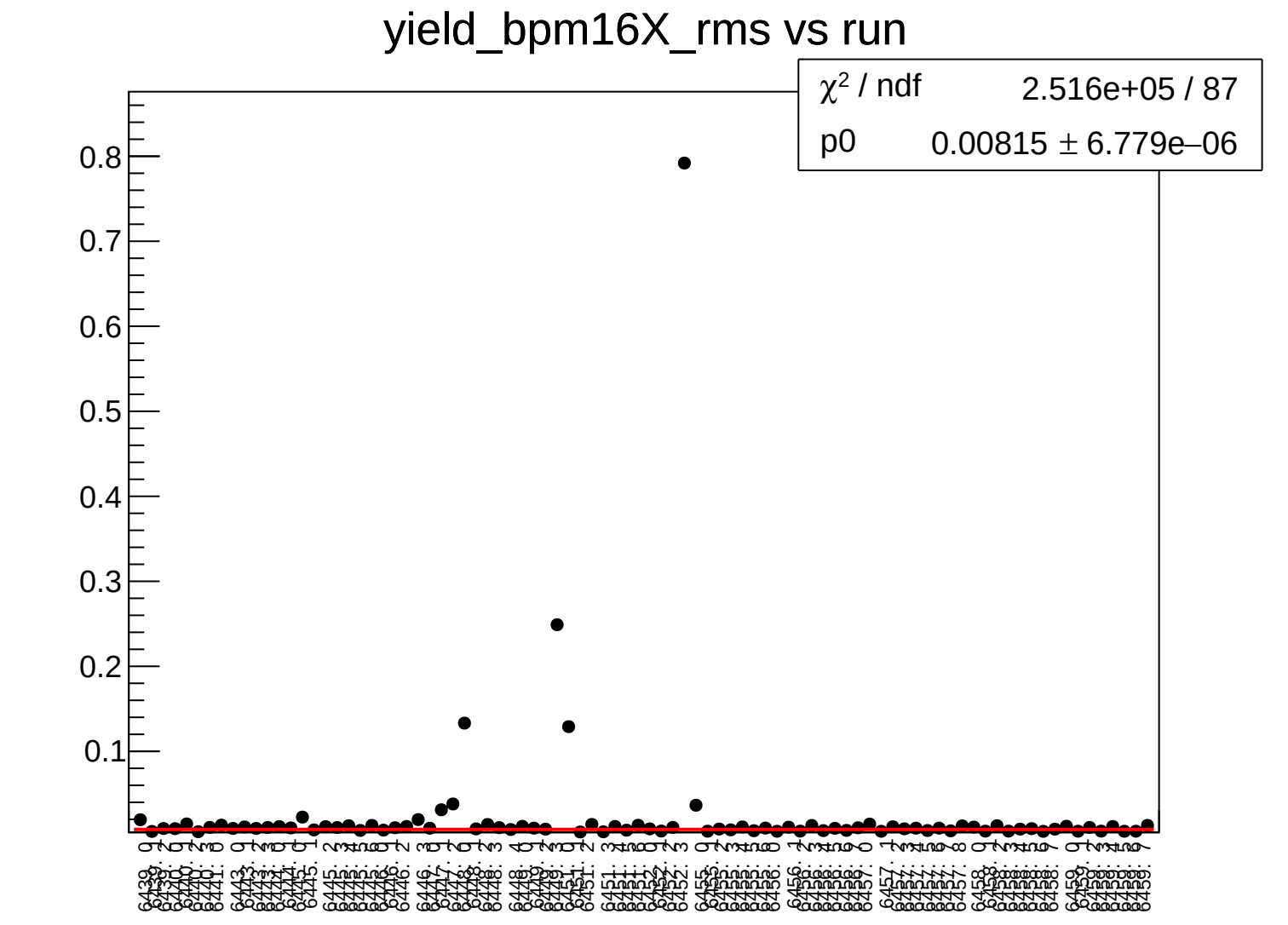

yield_bpm12Y_mean vs run
χ² / ndf 4.664e+06 / 87
p0 1.039 ± 7.182e−06
1.06
1.04
1.02
1
0.98
0.96
pull
Entries 88
Mean −121.1
Std Dev 157.3
200
0
−200
−400
−600
−800

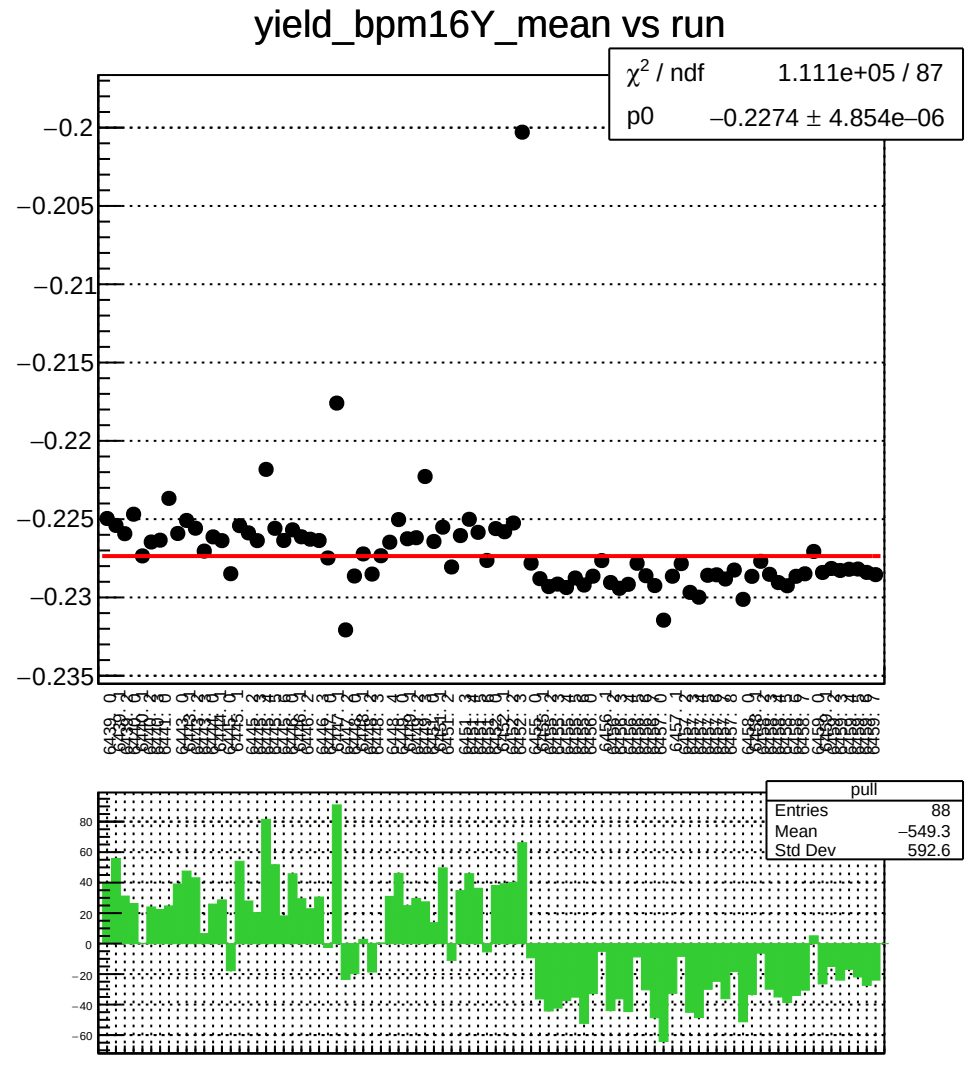

pull1D
Entries 88
Mean 6.435
Std Dev 0.8572
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

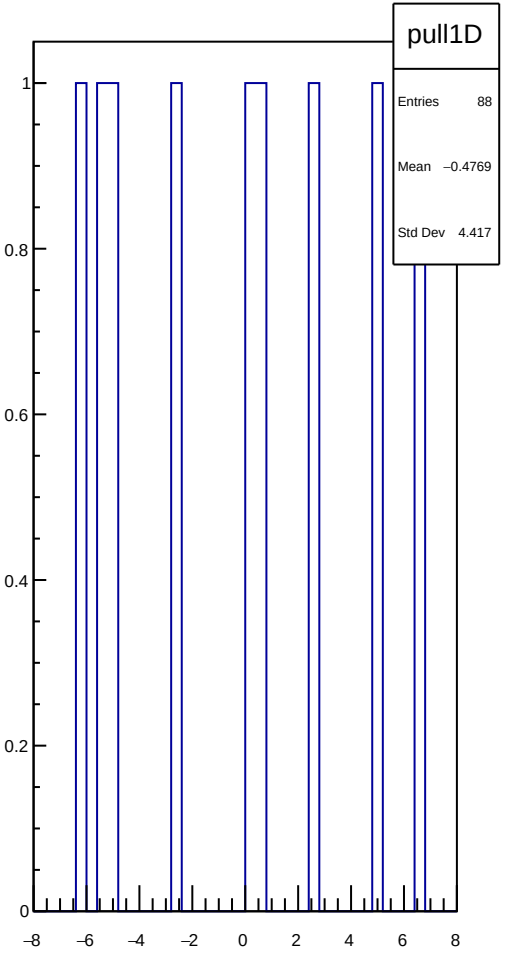

yield_bpm12Y_rms vs run
χ² / ndf 1.109e+05 / 87
p0 0.006396 ± 5.079e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

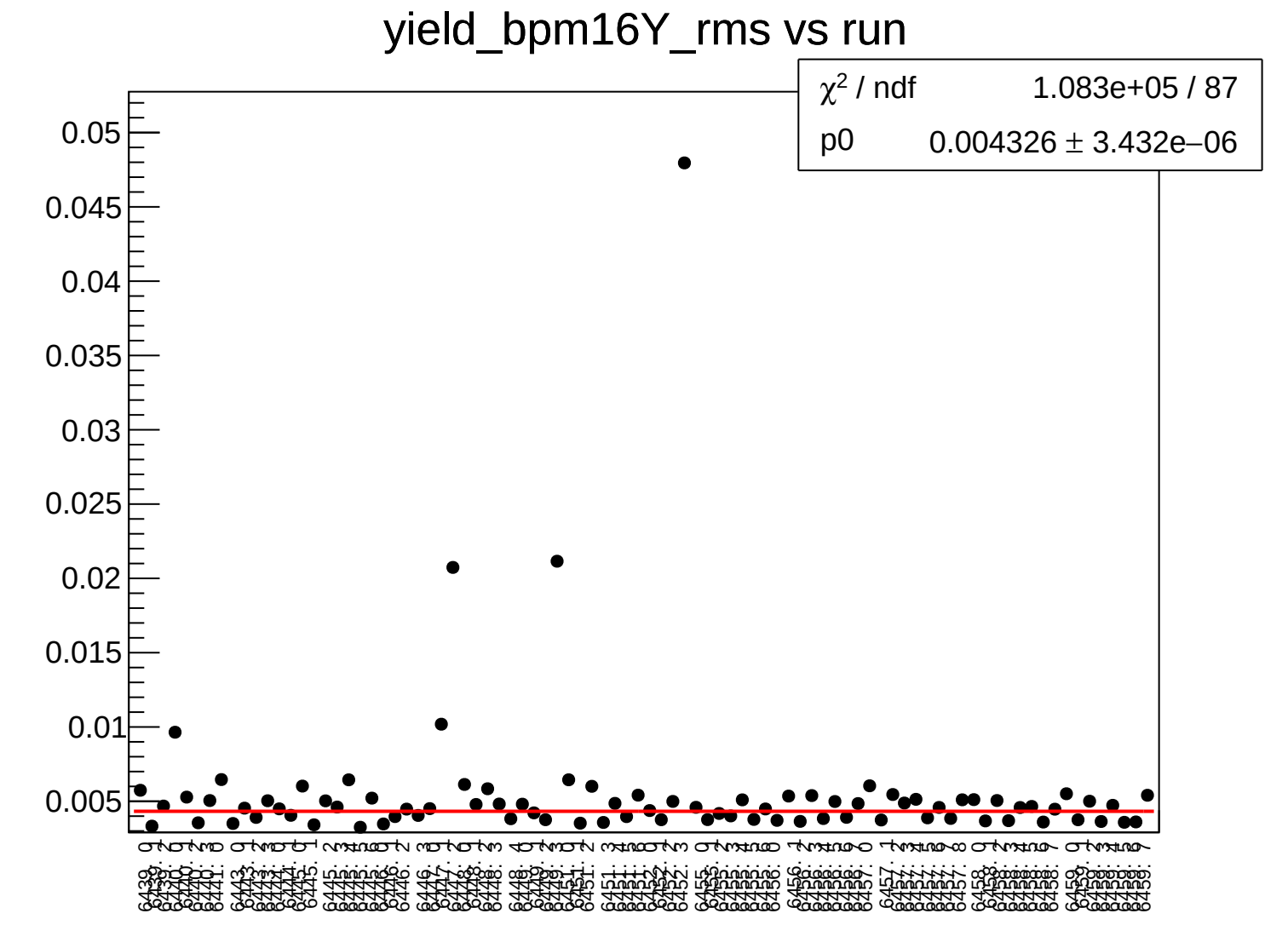

yield_bpm16X_mean vs run
χ² / ndf 3.496e+05 / 87
p0 −0.4356 ± 9.587e−06
pull
Entries 88
Mean −63.13
Std Dev 109.7

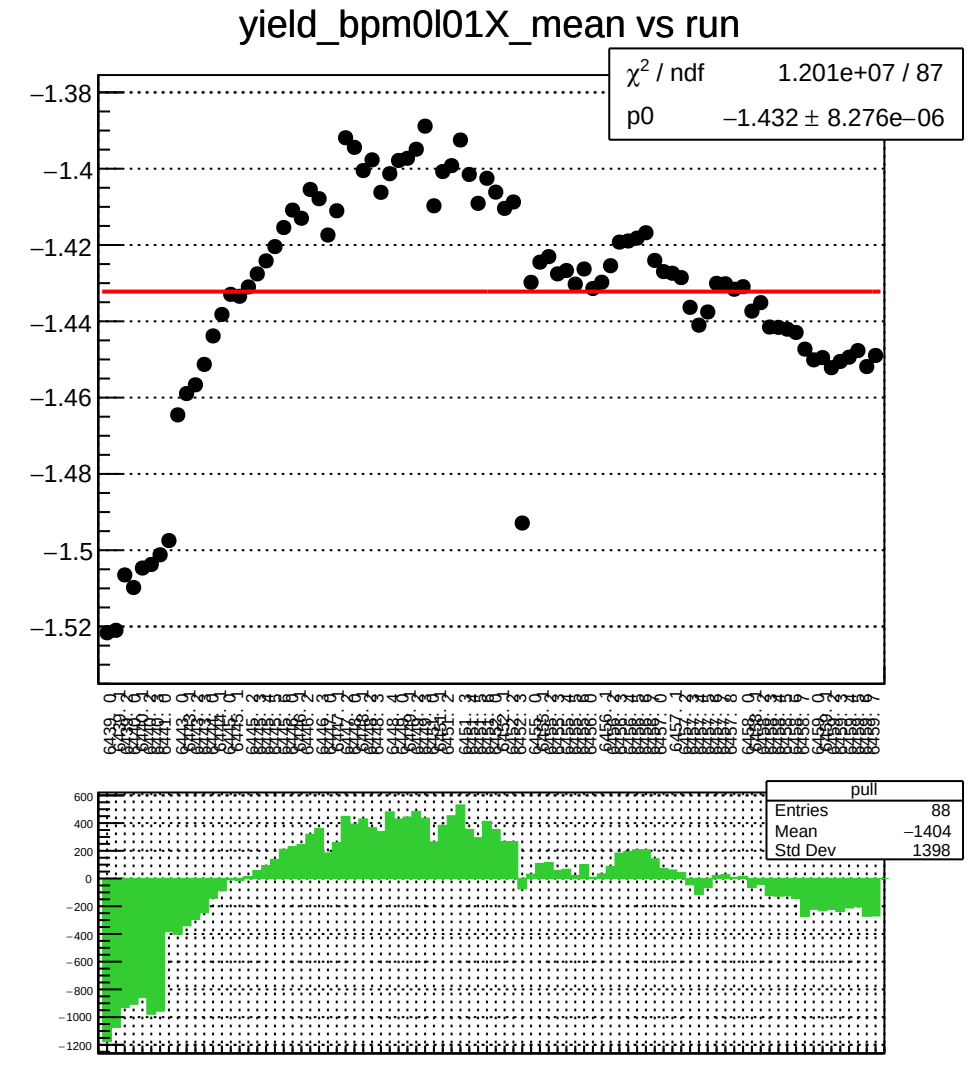

pull1D
Entries 88
Mean −0.2729
Std Dev 3.927

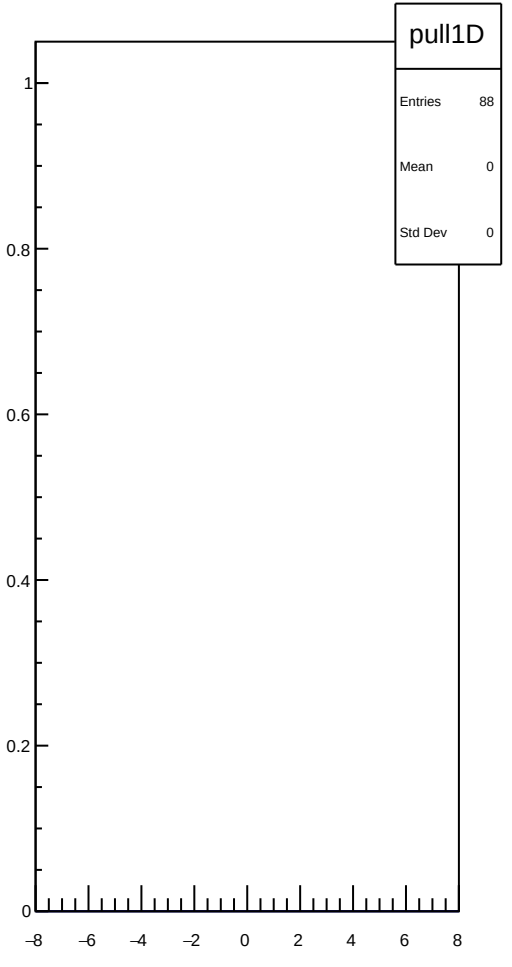

yield_bpm16X_rms vs run
χ² / ndf 2.516e+05 / 87
p0 0.00815 ± 6.779e–06
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

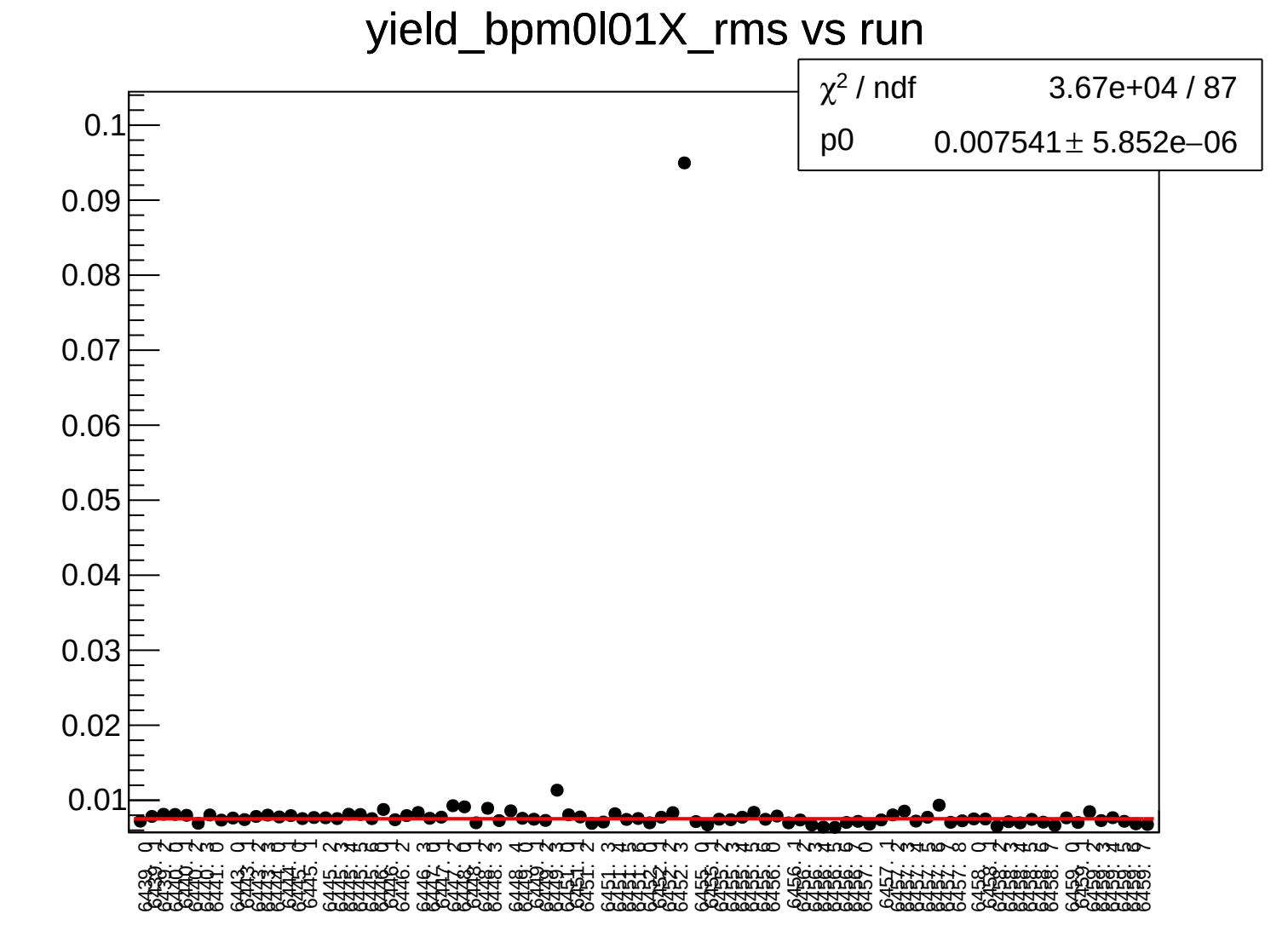

yield_bpm16Y_mean vs run
χ² / ndf 1.111e+05 / 87
p0 −0.2274 ± 4.854e−06
−0.2
−0.205
−0.21
−0.215
−0.22
−0.225
−0.23
−0.235
pull
Entries 88
Mean −549.3
Std Dev 592.6
80
60
40
20
0
−20
−40
−60

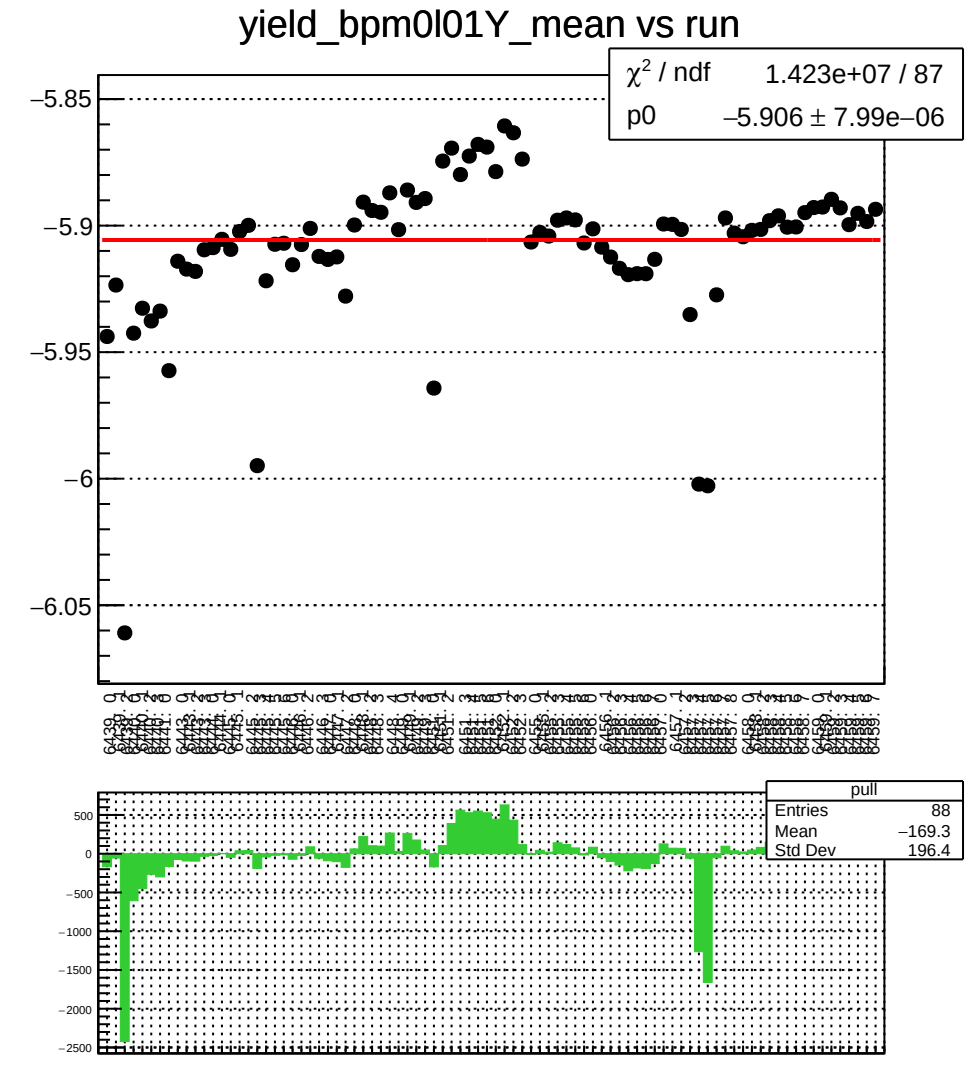

pull1D
Entries 88
Mean −0.4769
Std Dev 4.417
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

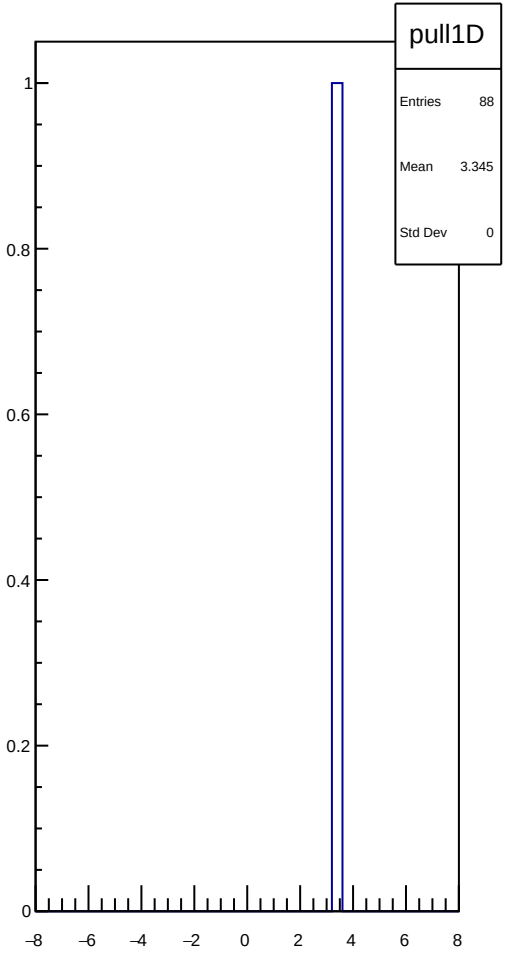

yield_bpm16Y_rms vs run
χ^2 / ndf 1.083e+05 / 87
p0 0.004326 ± 3.432e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005


yield_bpm0l01X_mean vs run
χ² / ndf 1.201e+07 / 87
p0 −1.432 ± 8.276e−06
−1.38
−1.4
−1.42
−1.44
−1.46
−1.48
−1.5
−1.52
pull
Entries 88
Mean −1404
Std Dev 1398
600
400
200
0
−200
−400
−600
−800
−1000
−1200

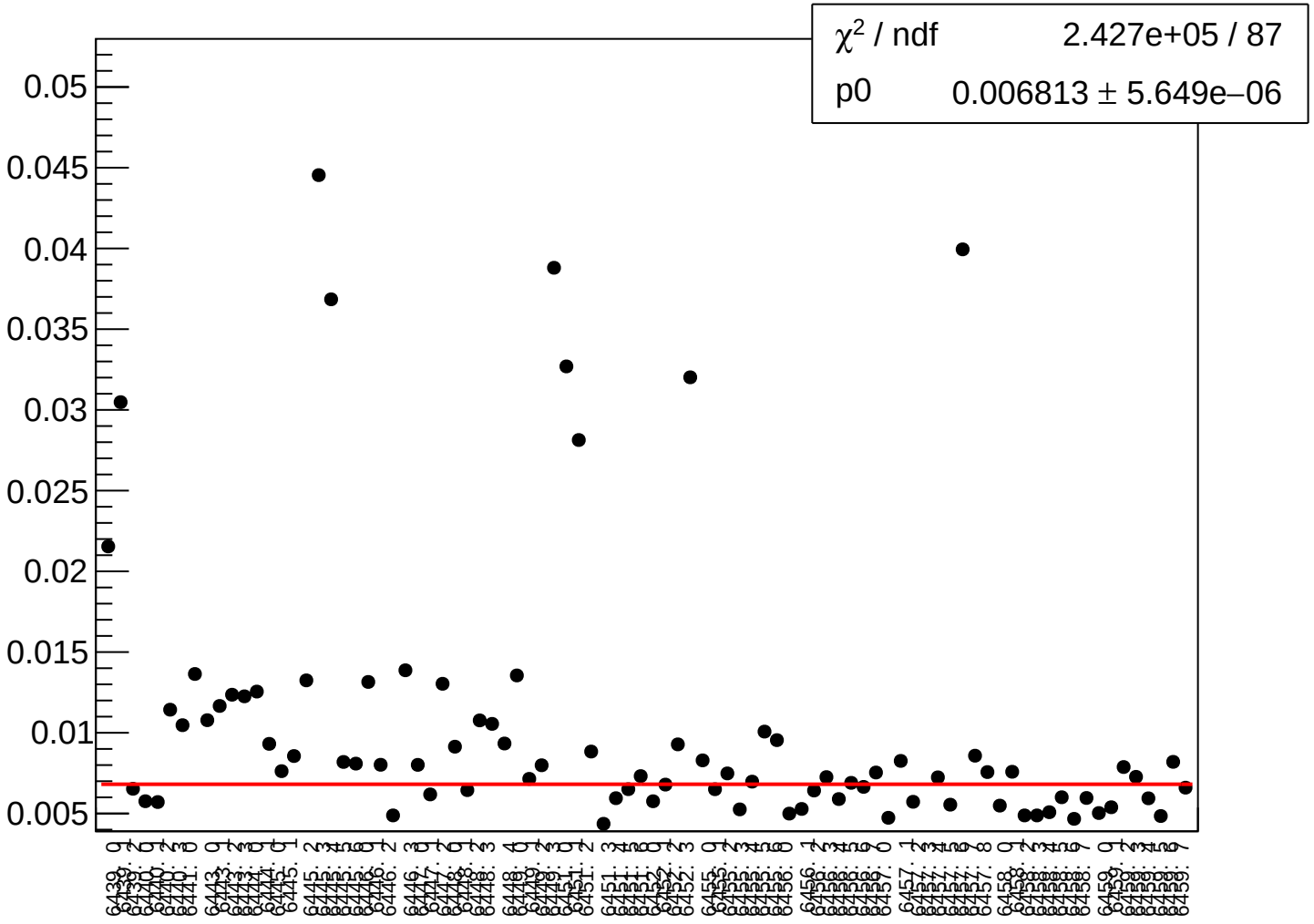

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

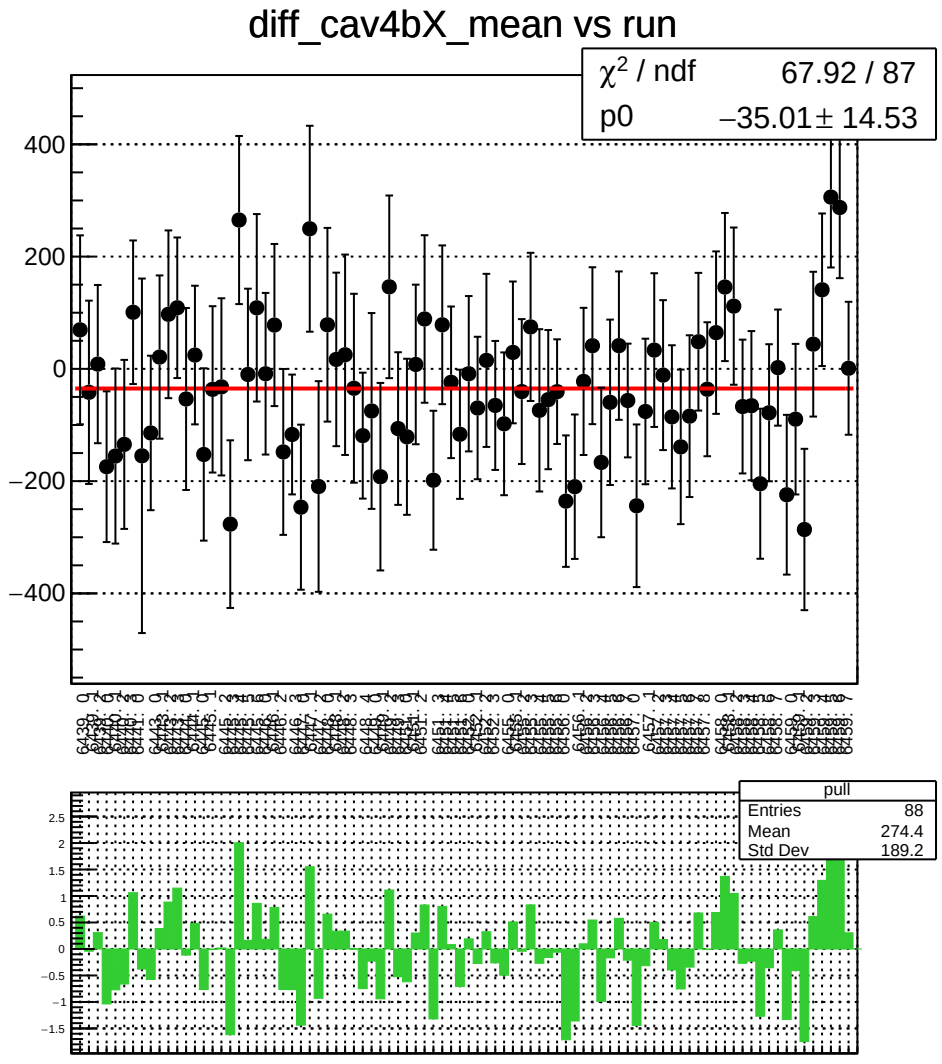

yield_bpm0l01X_rms vs run
χ² / ndf 3.67e+04 / 87
p0 0.007541 ± 5.852e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

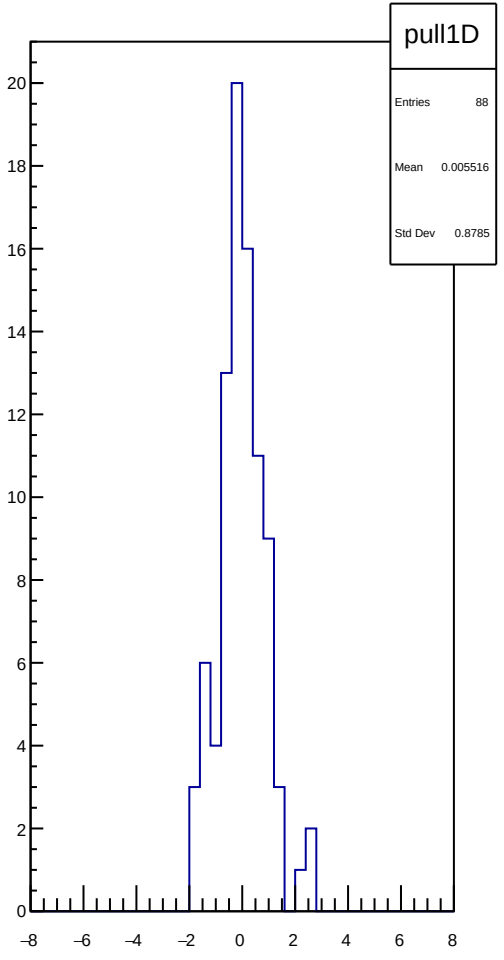

yield_bpm0l01Y_mean vs run
χ² / ndf 1.423e+07 / 87
p0 −5.906 ± 7.99e−06
−5.85
−5.9
−5.95
−6
−6.05
pull
Entries 88
Mean −169.3
Std Dev 196.4
500
0
−500
−1000
−1500
−2000
−2500

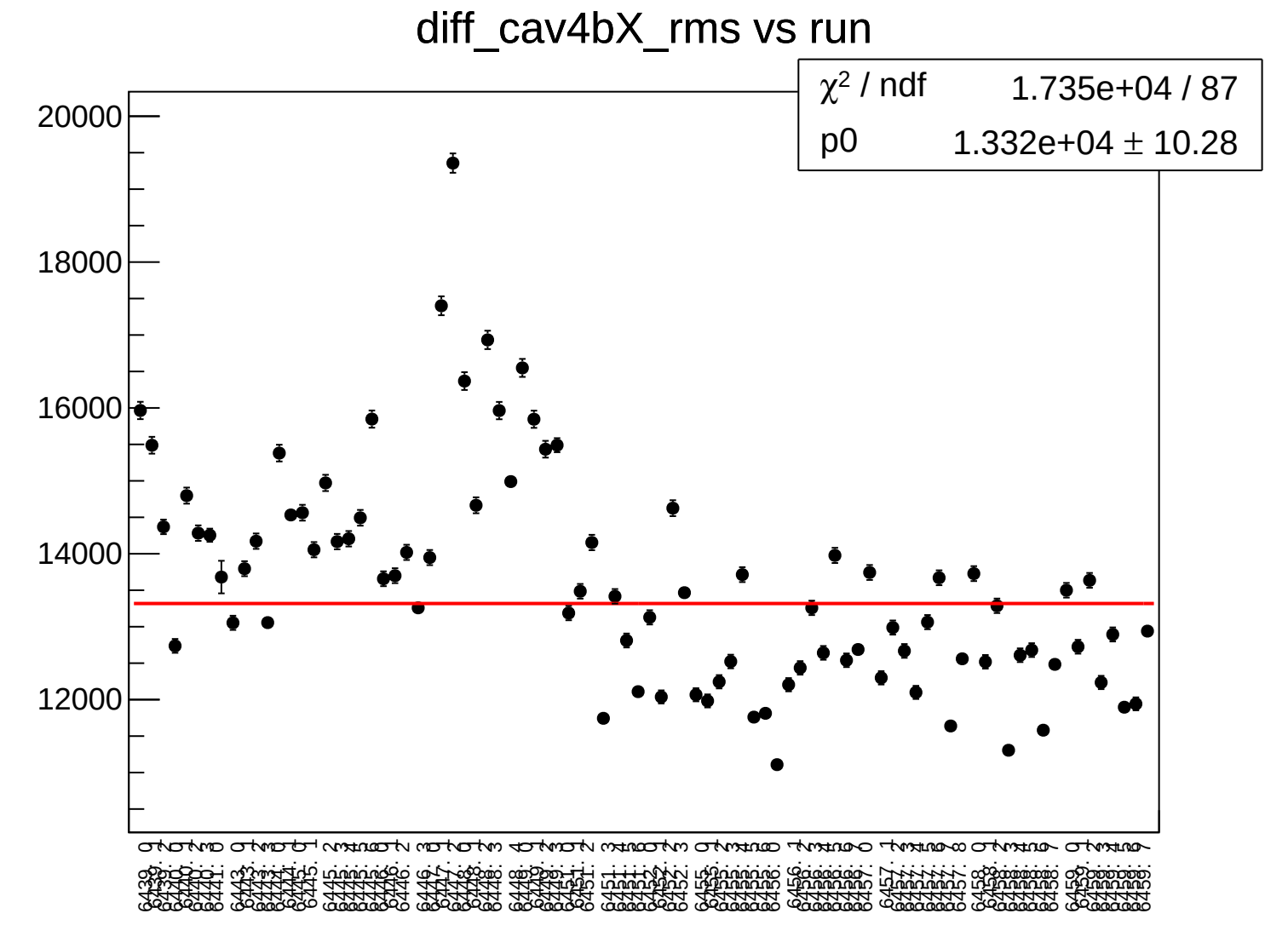

pull1D
Entries 88
Mean 3.345
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

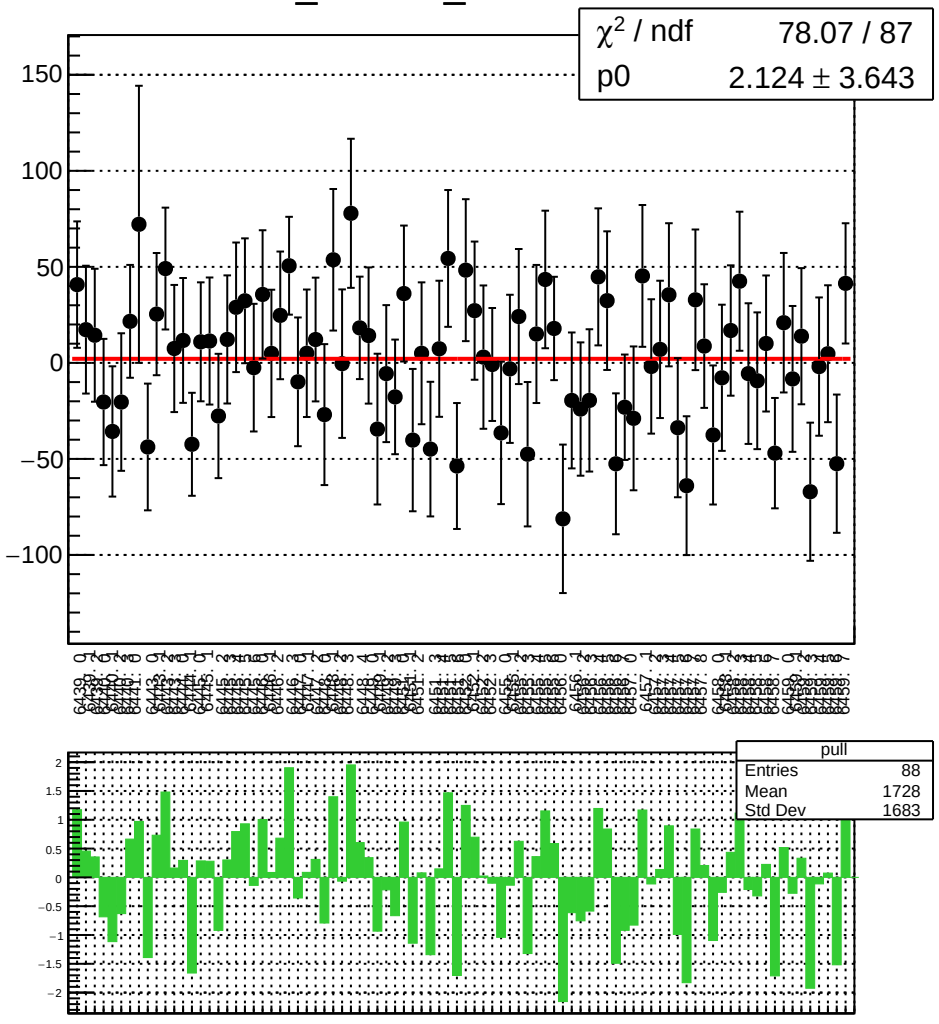
yield_bpm0l01Y_rms vs run

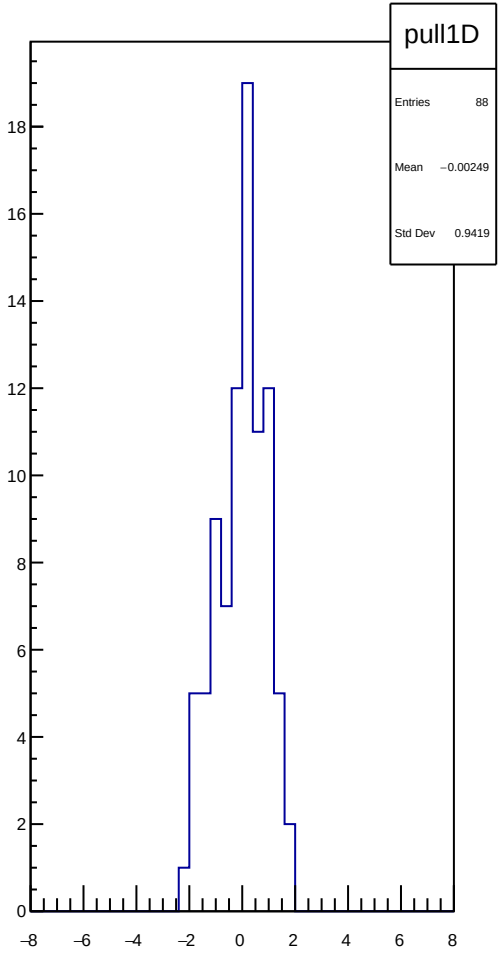


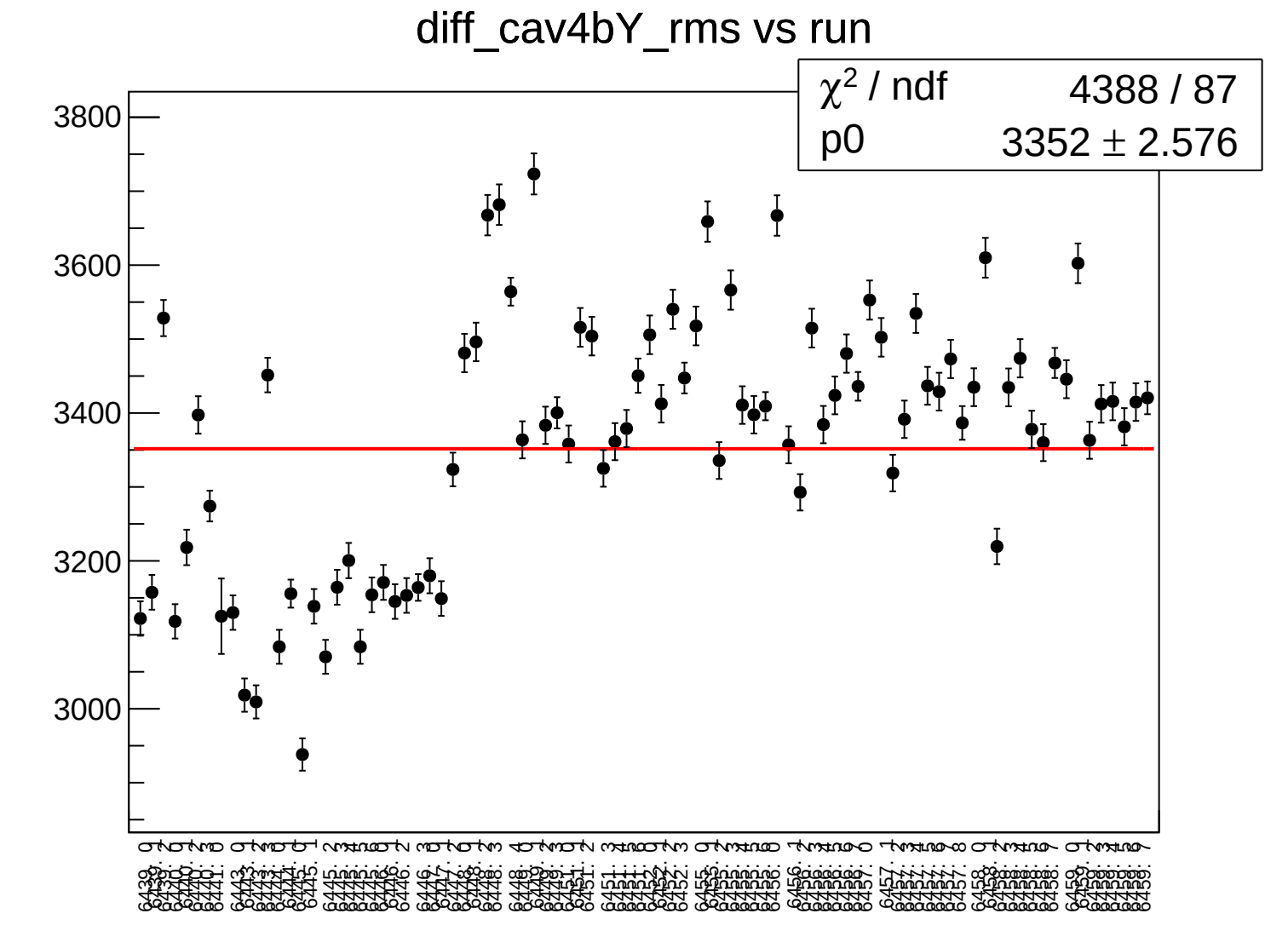

diff_cav4bX_mean vs run
χ² / ndf 67.92 / 87
p0 −35.01 ± 14.53
pull
Entries 88
Mean 274.4
Std Dev 189.2

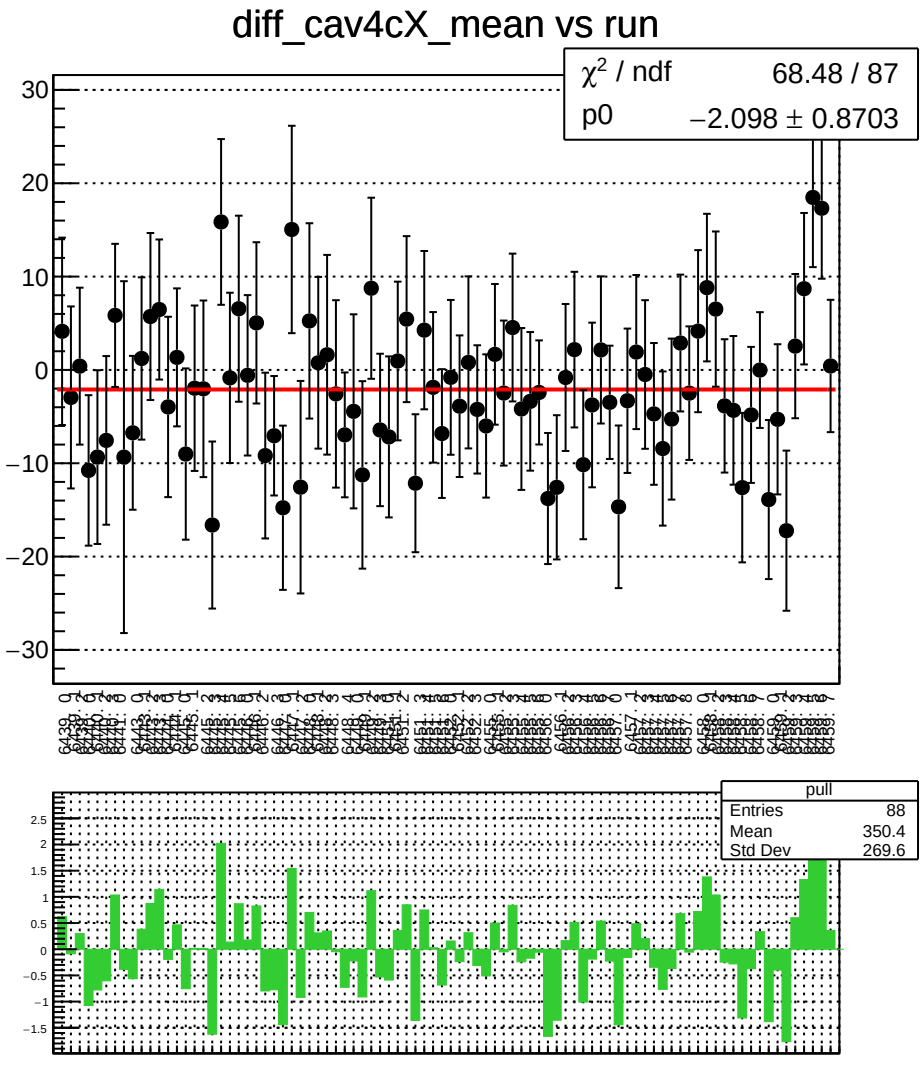

pull1D
Entries 88
Mean 0.005516
Std Dev 0.8785

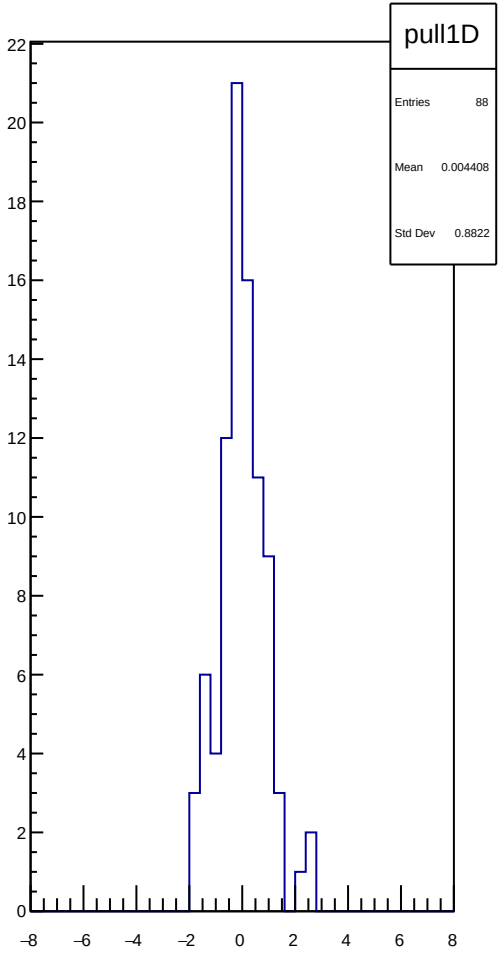

diff_cav4bX_rms vs run
χ² / ndf 1.735e+04 / 87
p0 1.332e+04 ± 10.28
20000
18000
16000
14000
12000

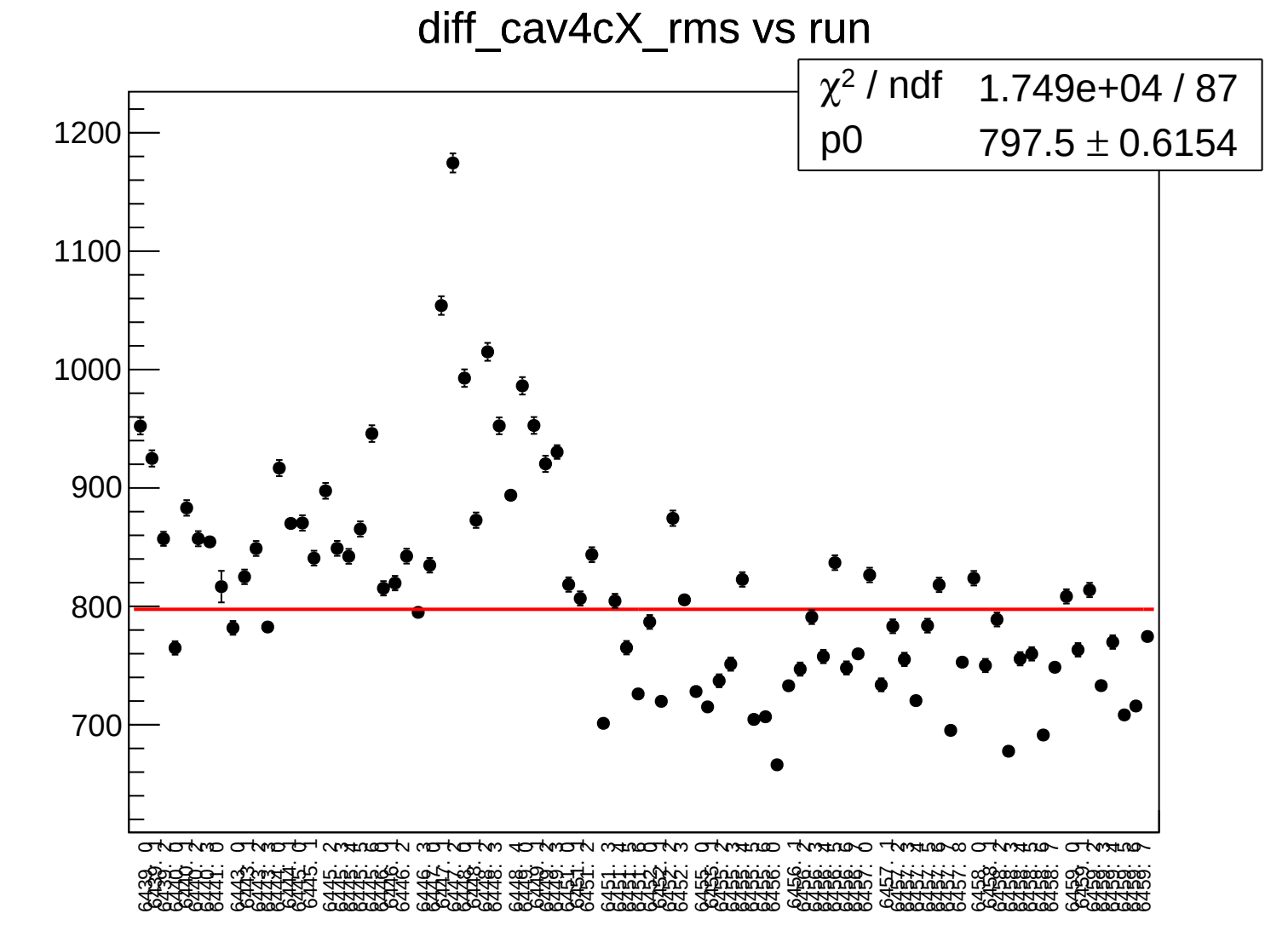

diff_cav4bY_mean vs run
χ² / ndf 78.07 / 87
p0 2.124 ± 3.643
150
100
50
0
−50
−100
pull
Entries 88
Mean 1728
Std Dev 1683
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

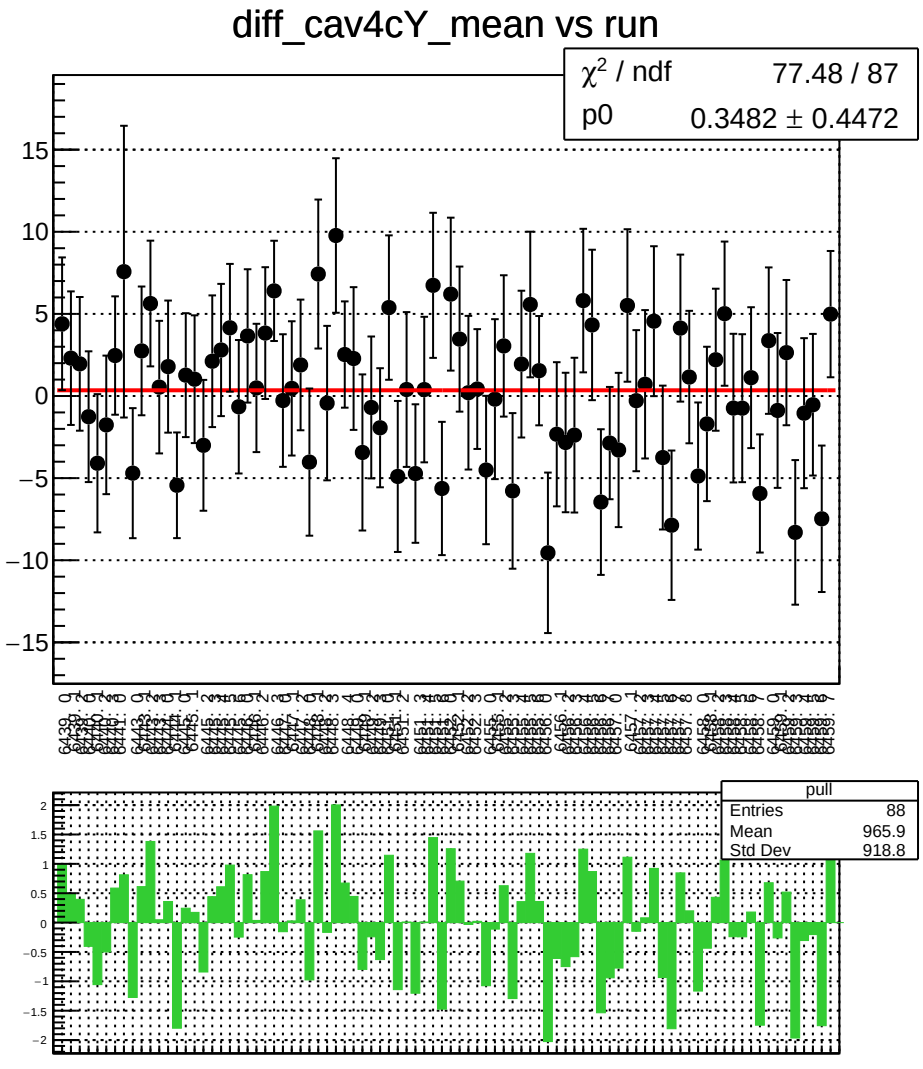

pull1D
Entries 88
Mean −0.00249
Std Dev 0.9419
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

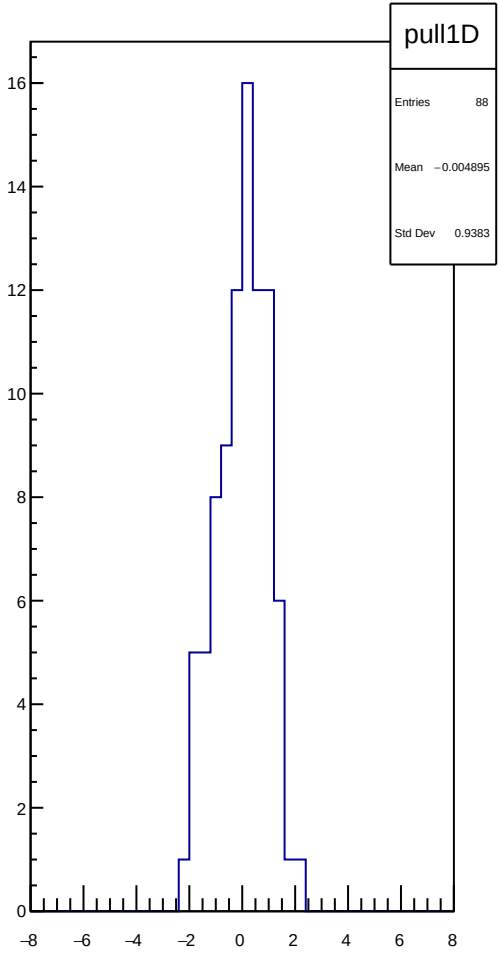

diff_cav4bY_rms vs run
χ² / ndf 4388 / 87
p0 3352 ± 2.576
3800
3600
3400
3200
3000

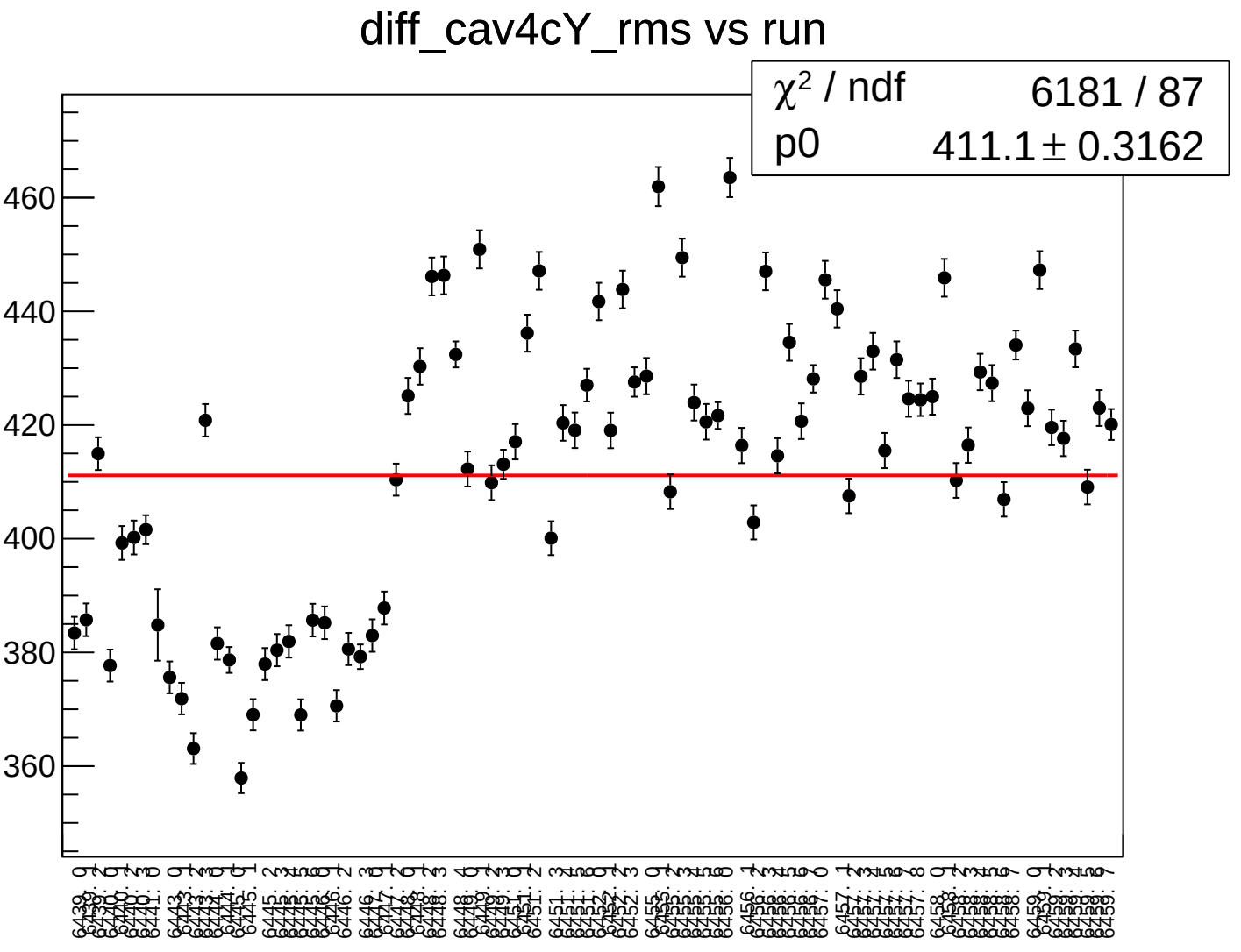

diff_cav4cX_mean vs run
χ^2 / ndf 68.48 / 87
p0 −2.098 ± 0.8703
pull
Entries 88
Mean 350.4
Std Dev 269.6

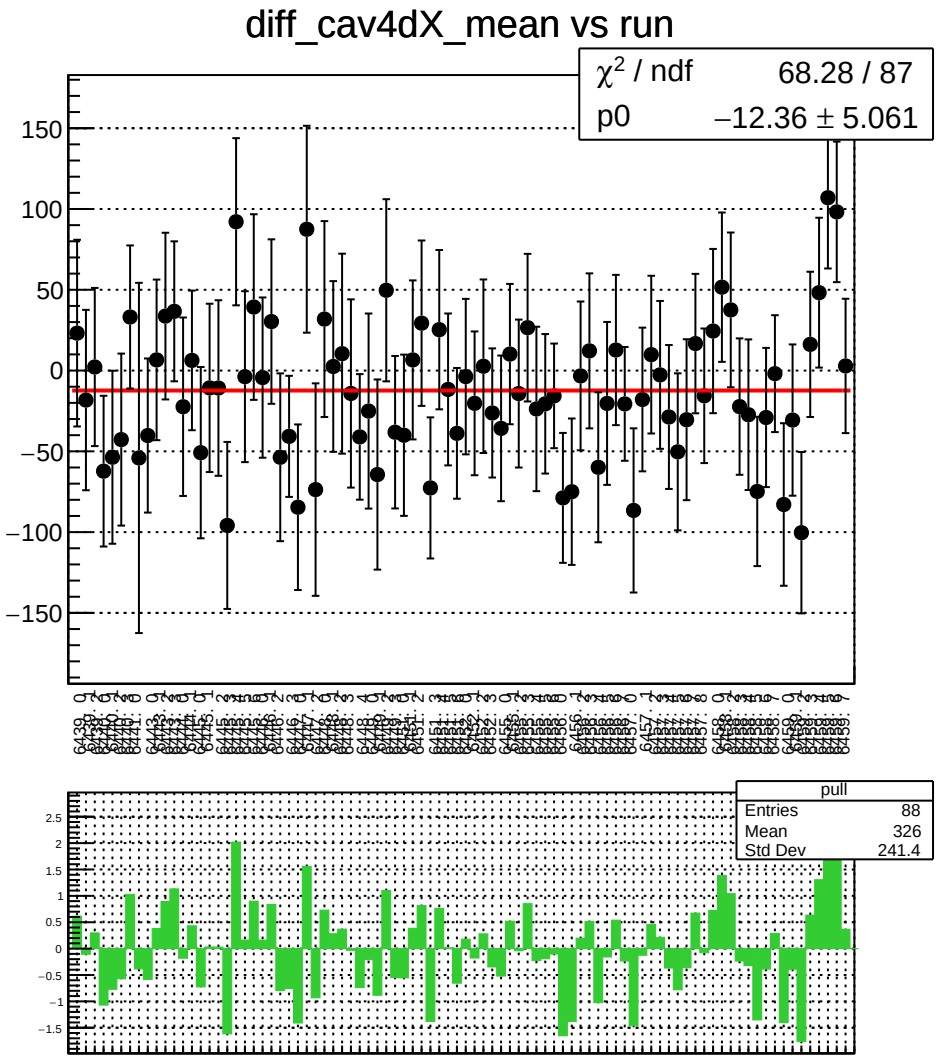

pull1D
Entries 88
Mean 0.004408
Std Dev 0.8822

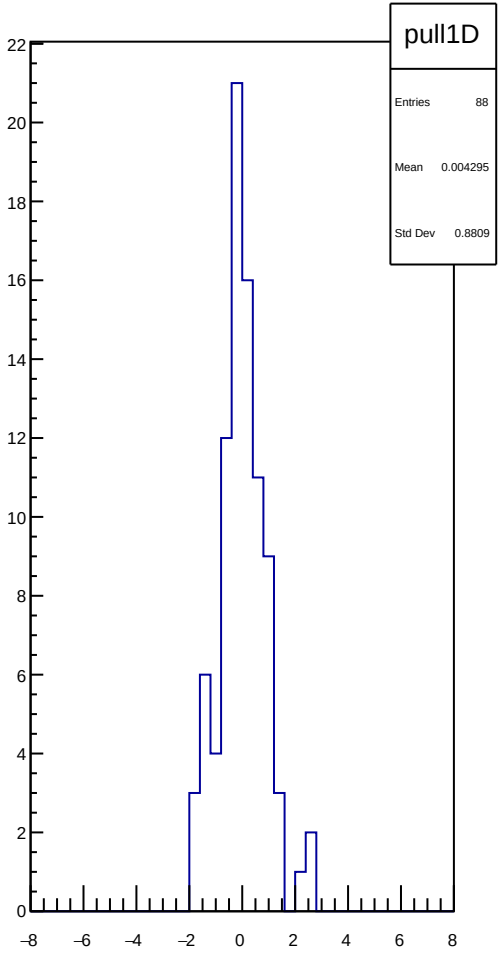

diff_cav4cX_rms vs run
χ² / ndf 1.749e+04 / 87
p0 797.5 ± 0.6154
1200
1100
1000
900
800
700

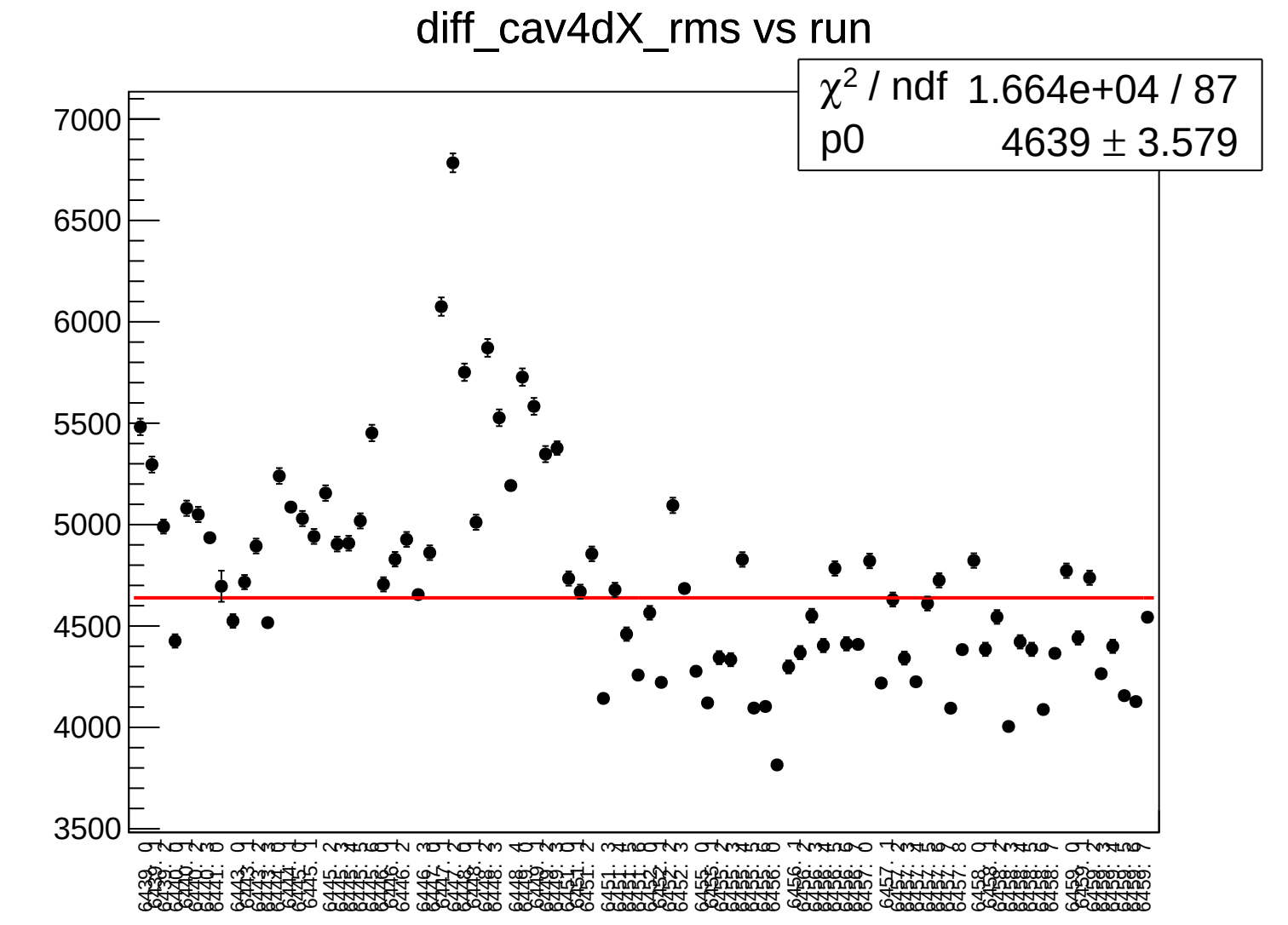

diff_cav4cY_mean vs run
χ² / ndf 77.48 / 87
p0 0.3482 ± 0.4472
pull
Entries 88
Mean 965.9
Std Dev 918.8

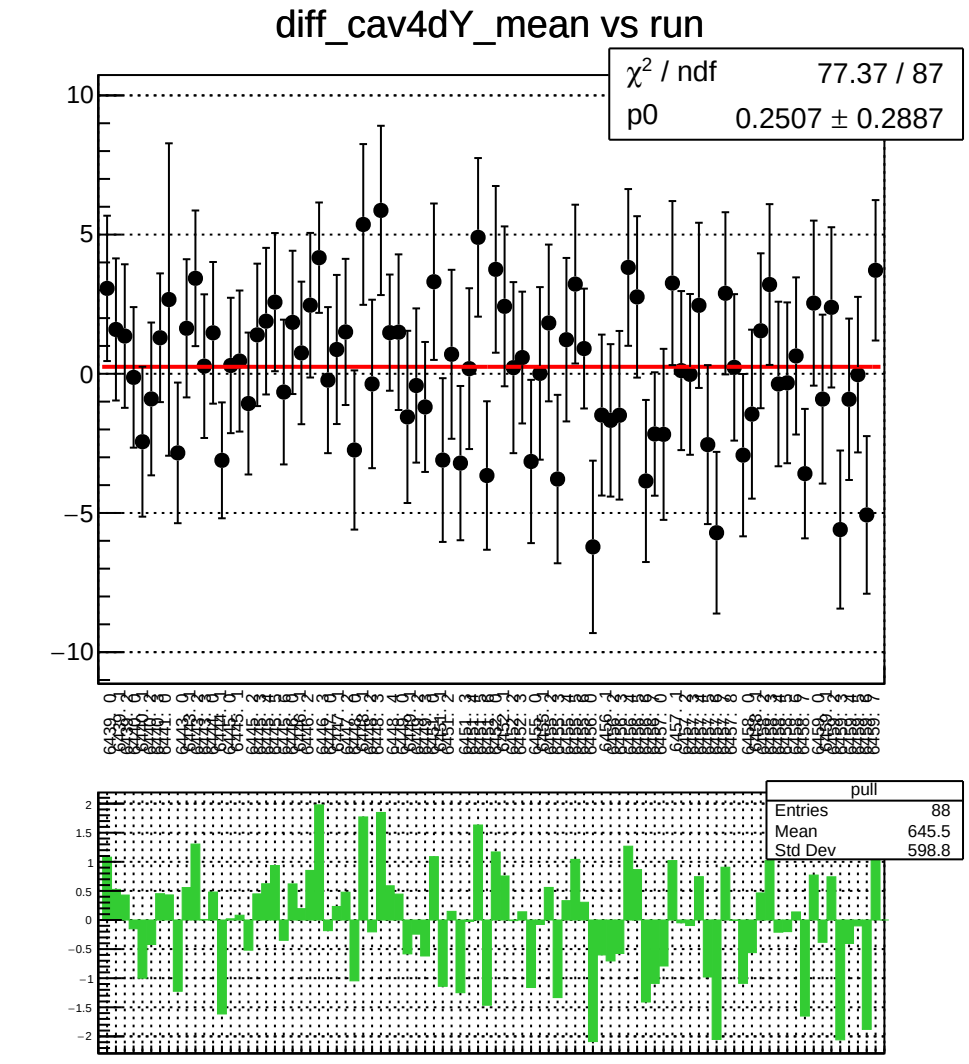

pull1D
Entries 88
Mean −0.004895
Std Dev 0.9383

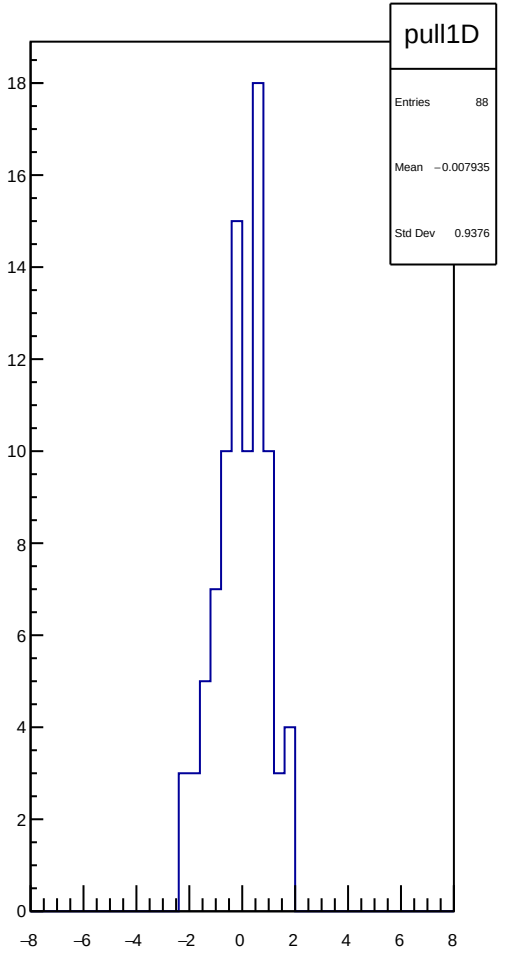

diff_cav4cY_rms vs run
χ² / ndf 6181 / 87
p0 411.1 ± 0.3162
460
440
420
400
380
360

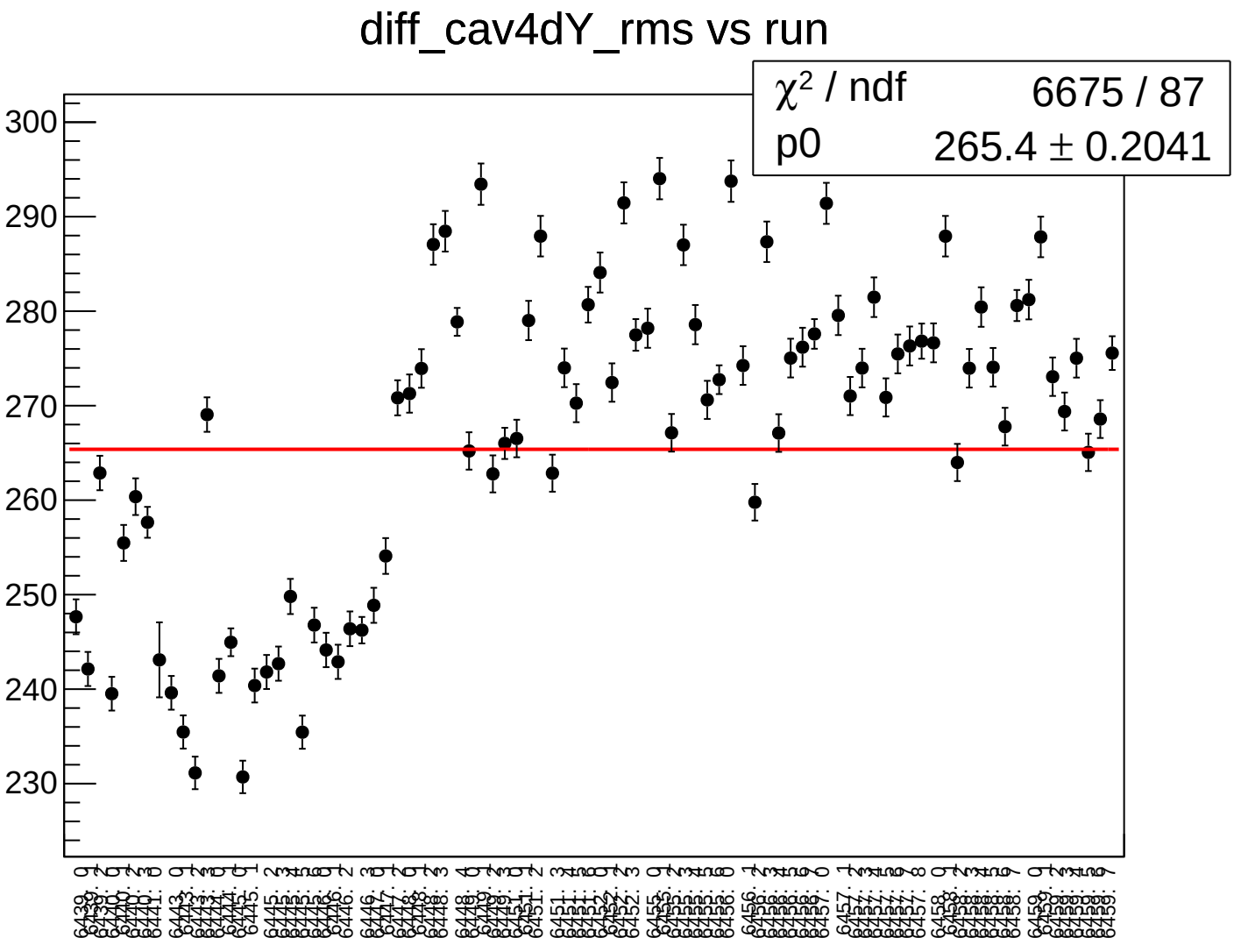

diff_cav4dX_mean vs run
χ² / ndf 68.28 / 87
p0 −12.36 ± 5.061
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 326
Std Dev 241.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

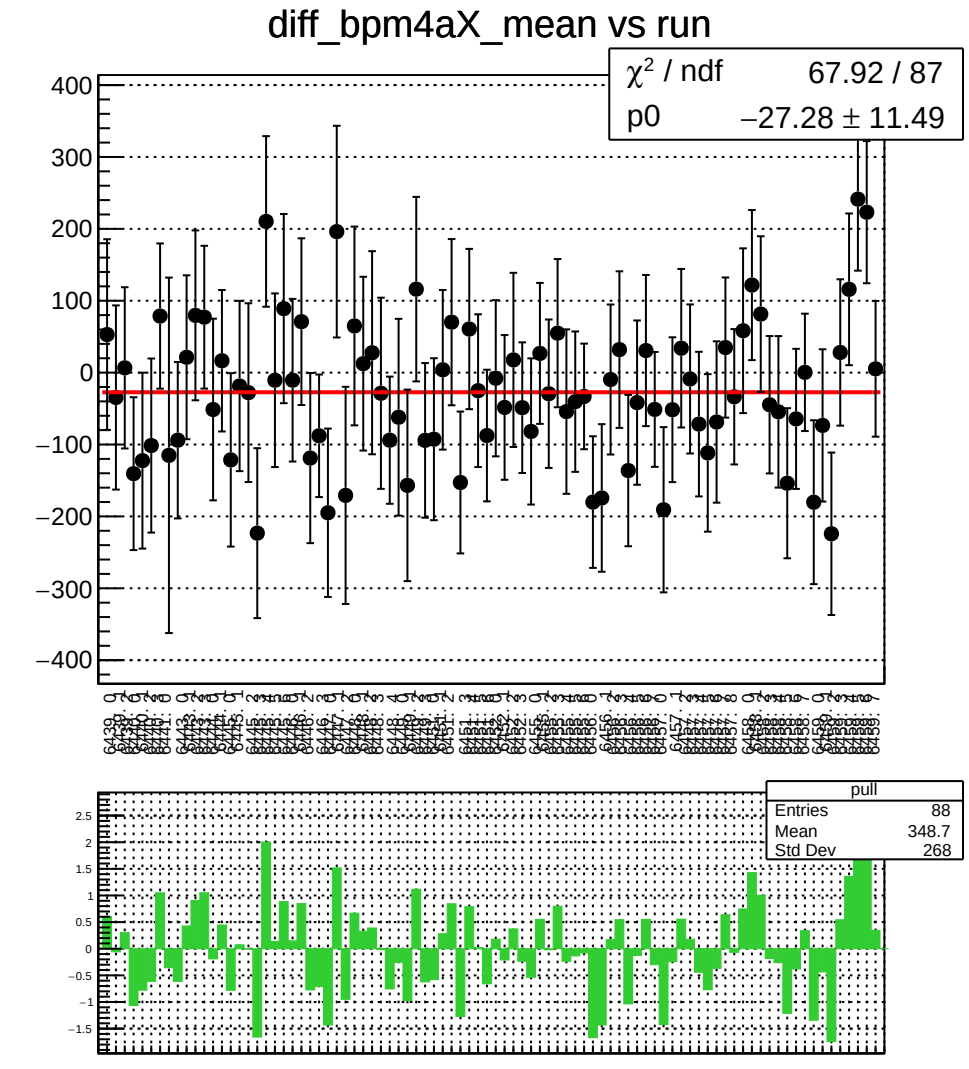

pull1D
Entries 88
Mean 0.004295
Std Dev 0.8809
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

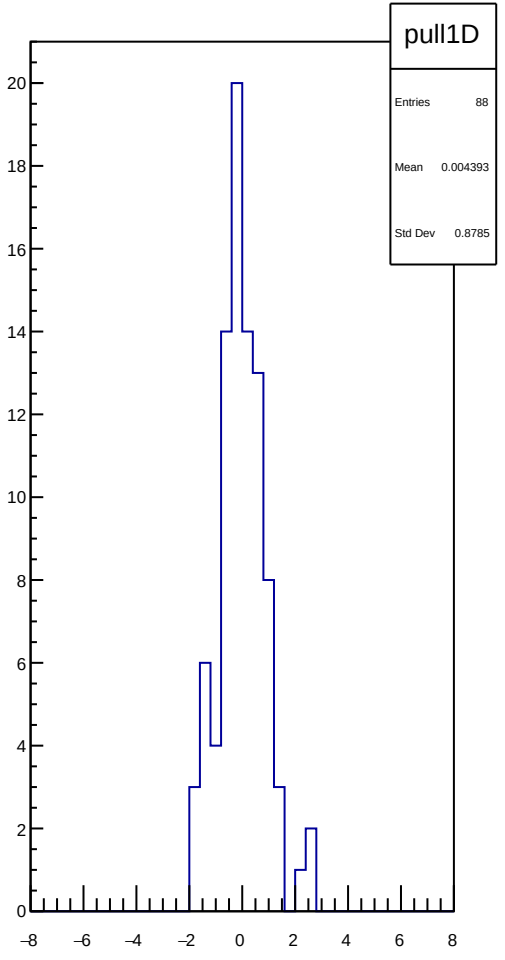

diff_cav4dX_rms vs run
χ² / ndf 1.664e+04 / 87
p0 4639 ± 3.579
7000
6500
6000
5500
5000
4500
4000
3500

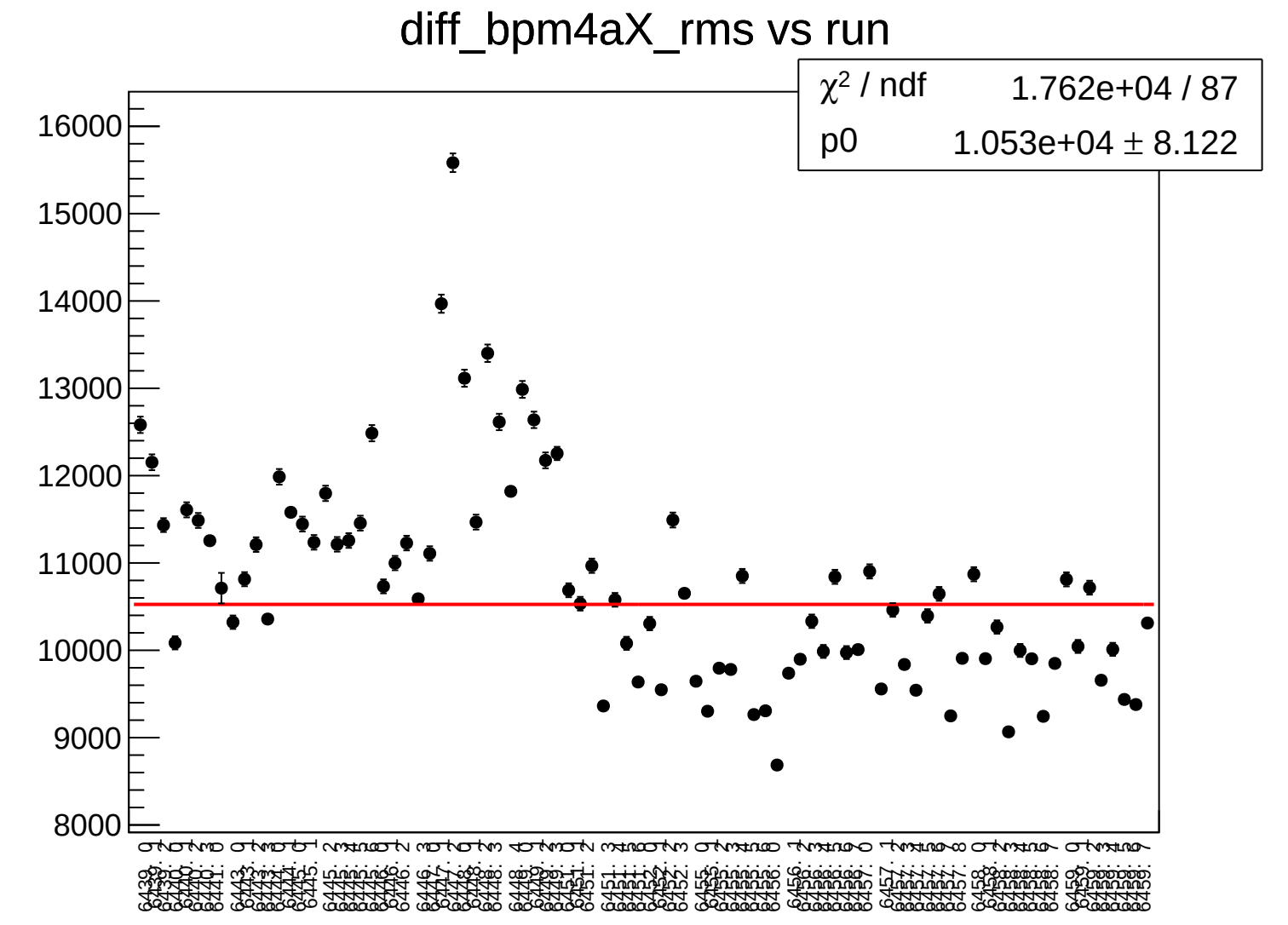

diff_cav4dY_mean vs run
χ² / ndf 77.37 / 87
p0 0.2507 ± 0.2887
pull
Entries 88
Mean 645.5
Std Dev 598.8

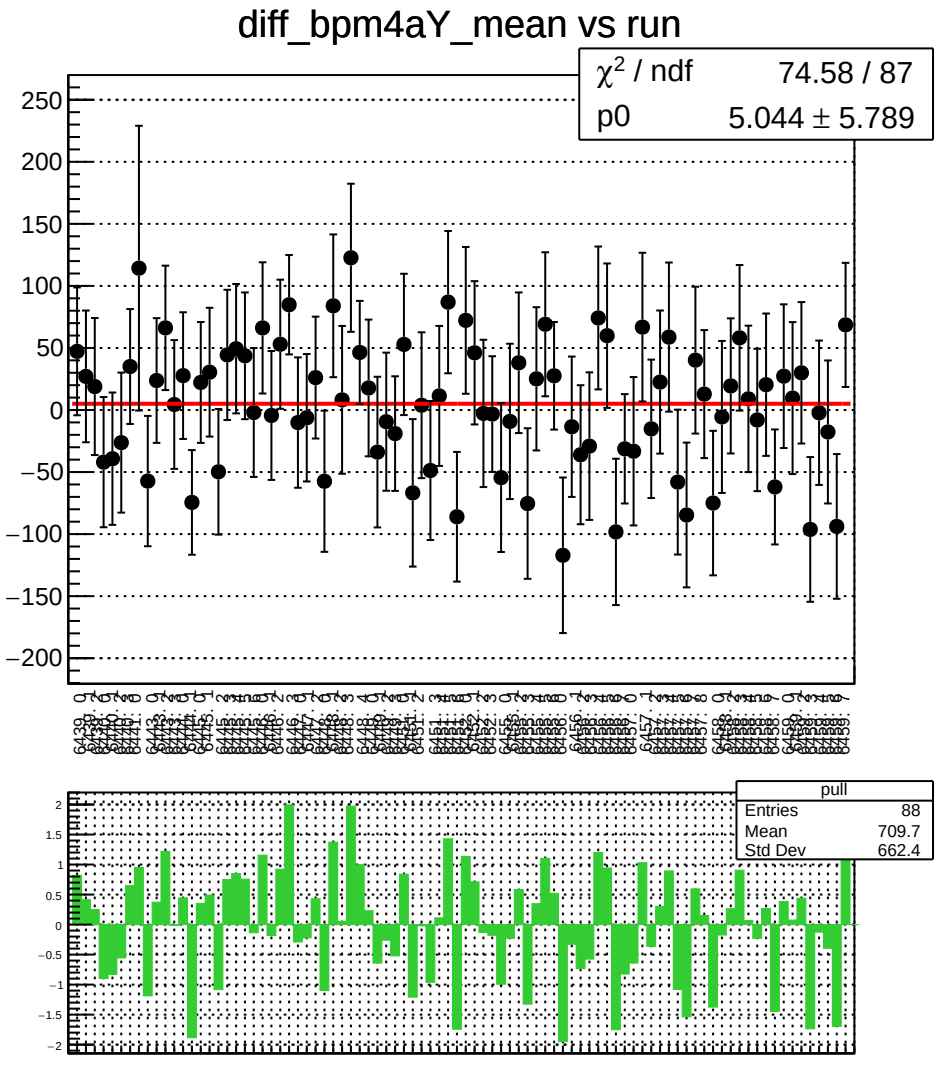

pull1D
Entries 88
Mean −0.007935
Std Dev 0.9376

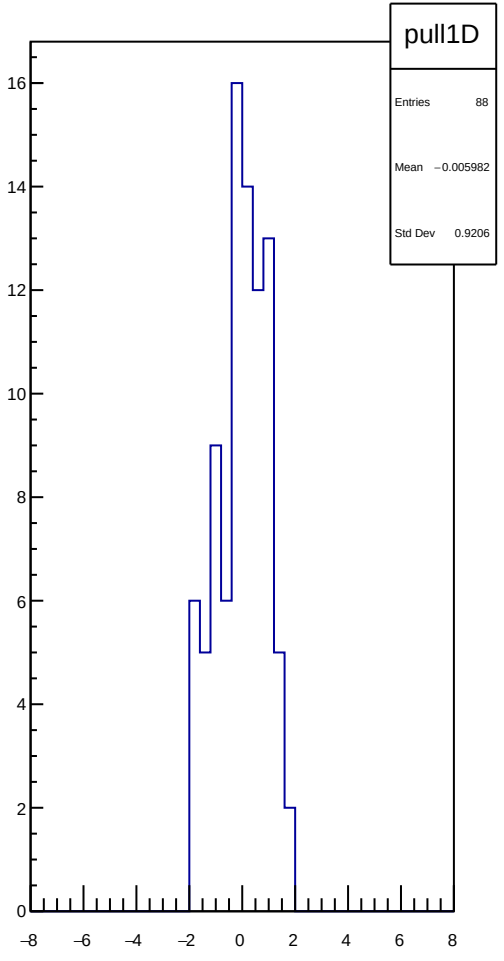

diff_cav4dY_rms vs run
χ² / ndf 6675 / 87
p0 265.4 ± 0.2041
300
290
280
270
260
250
240
230

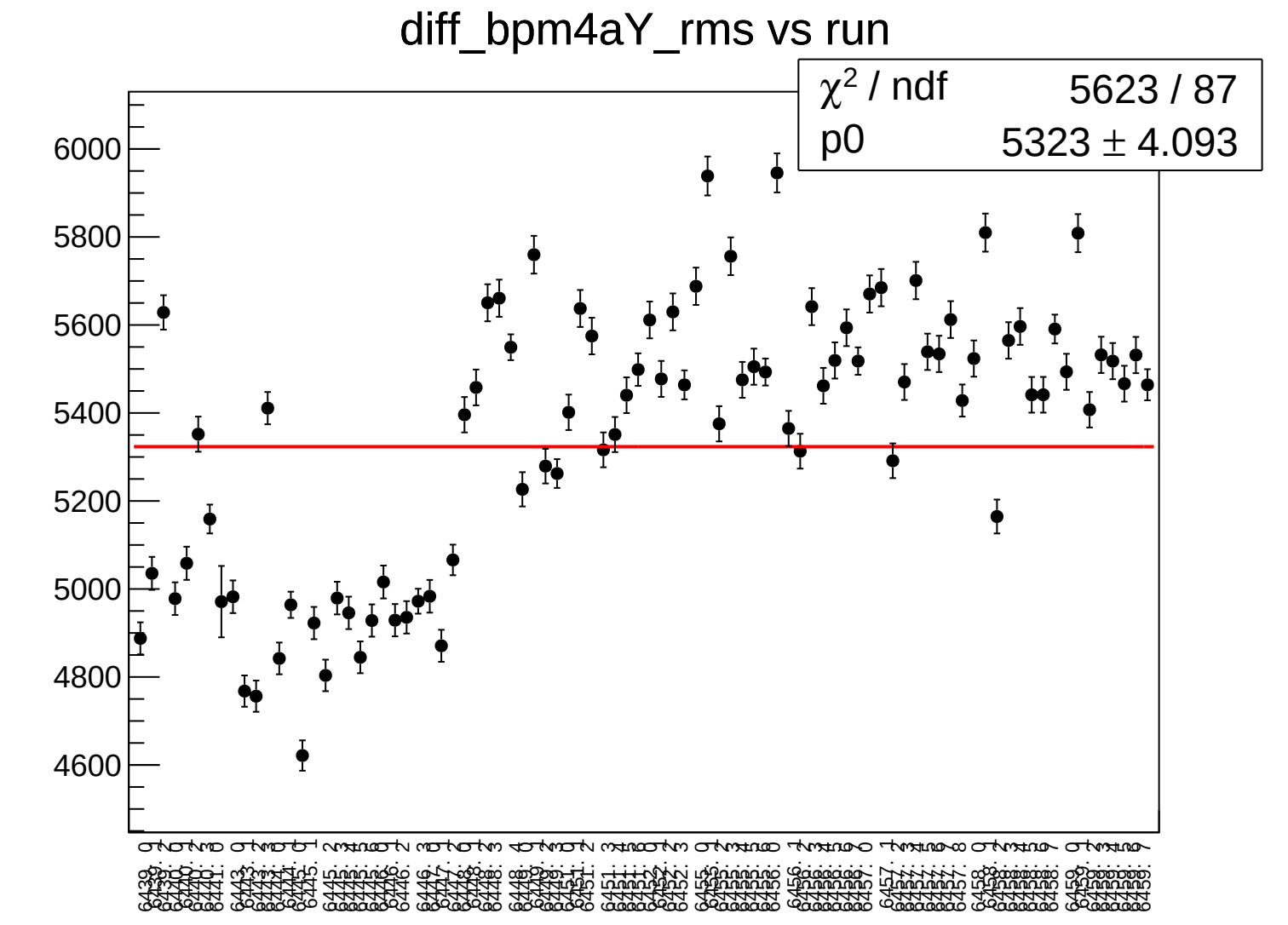

diff_bpm4aX_mean vs run
χ² / ndf 67.92 / 87
p0 −27.28 ± 11.49
pull
Entries 88
Mean 348.7
Std Dev 268

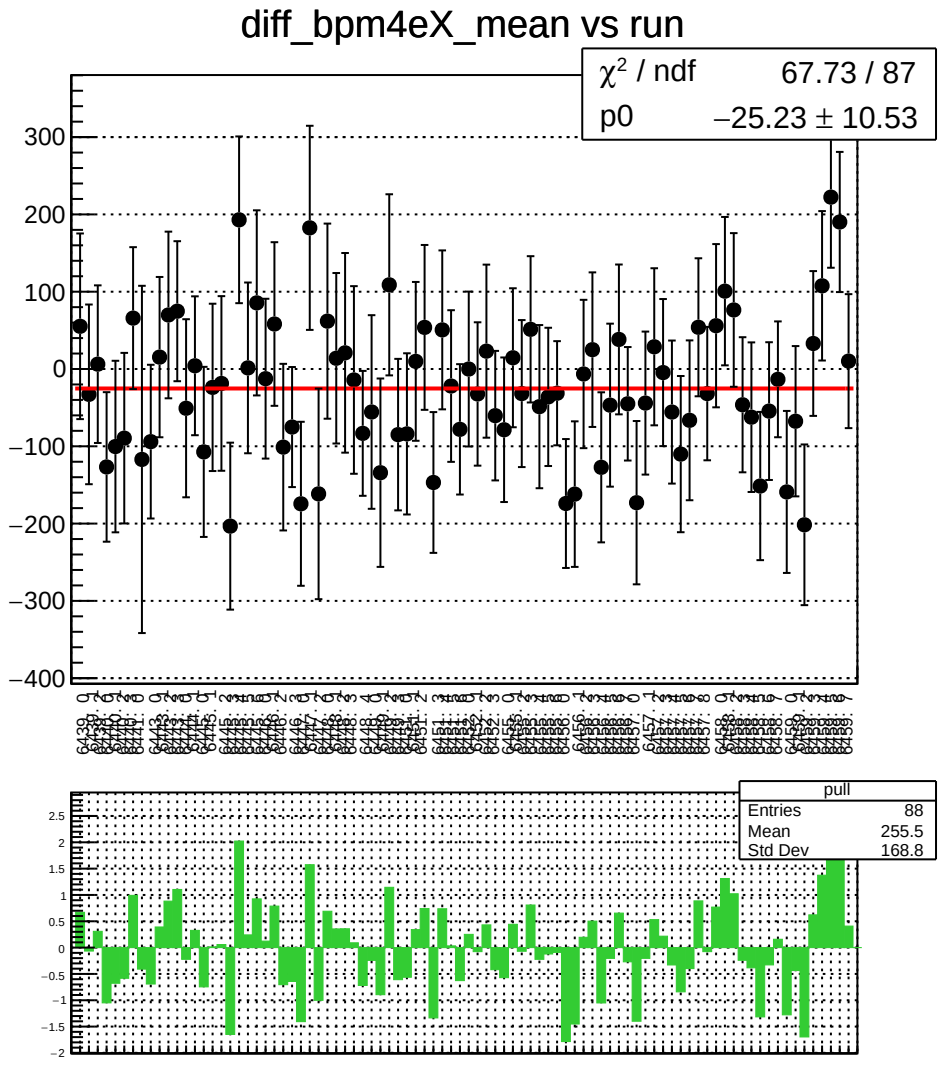

pull1D
Entries 88
Mean 0.004393
Std Dev 0.8785

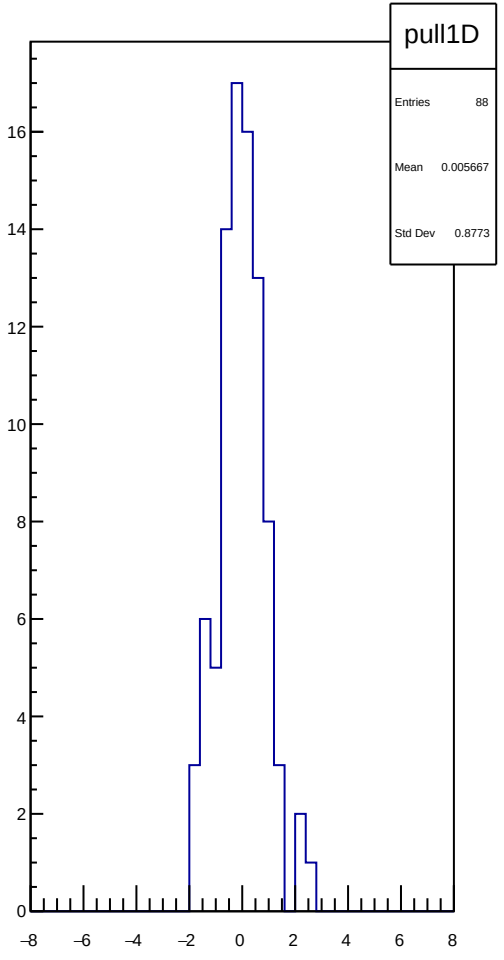

diff_bpm4aX_rms vs run
χ² / ndf 1.762e+04 / 87
p0 1.053e+04 ± 8.122
16000
15000
14000
13000
12000
11000
10000
9000
8000

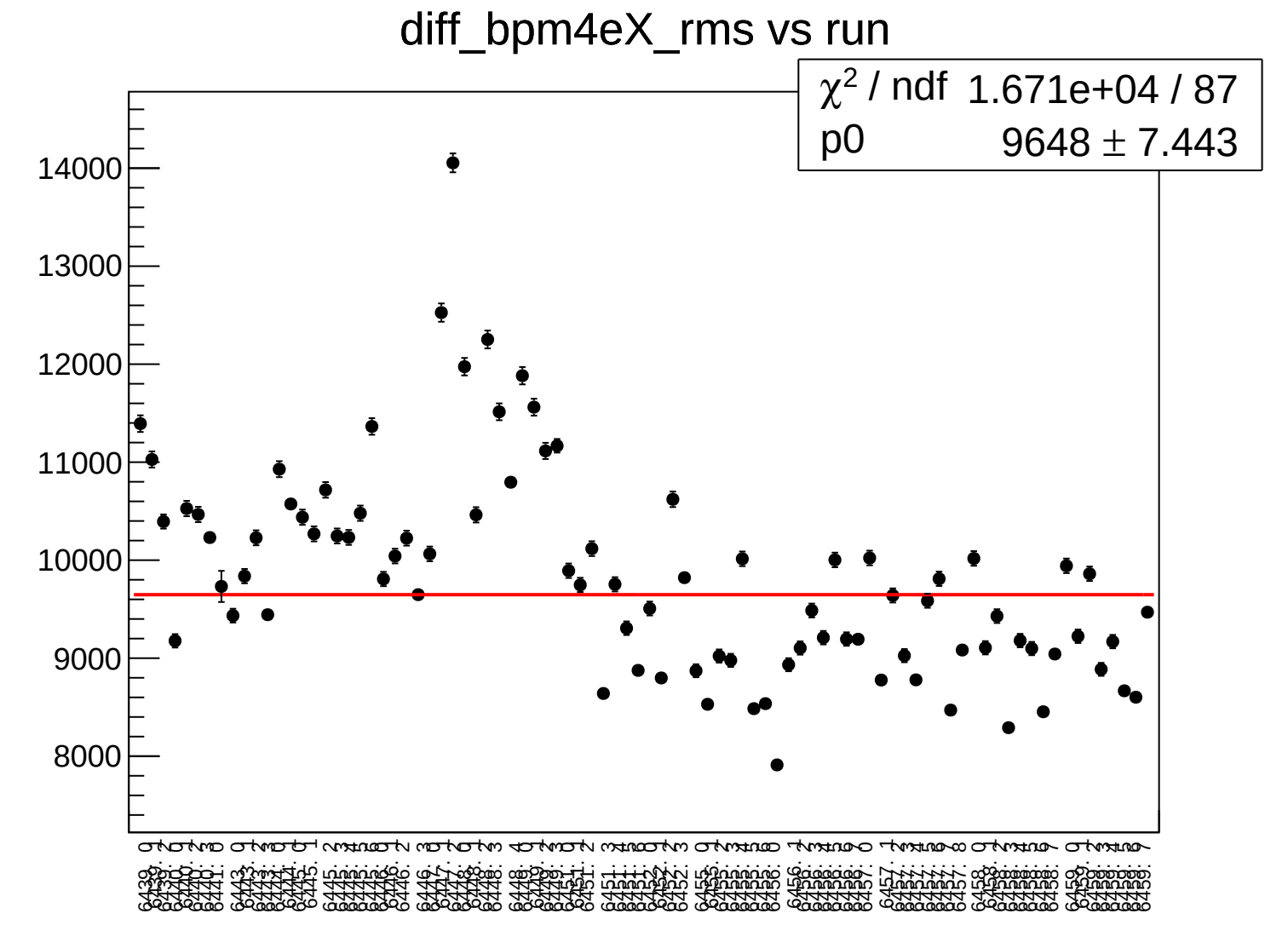

diff_bpm4aY_mean vs run
χ² / ndf 74.58 / 87
p0 5.044 ± 5.789
pull
Entries 88
Mean 709.7
Std Dev 662.4

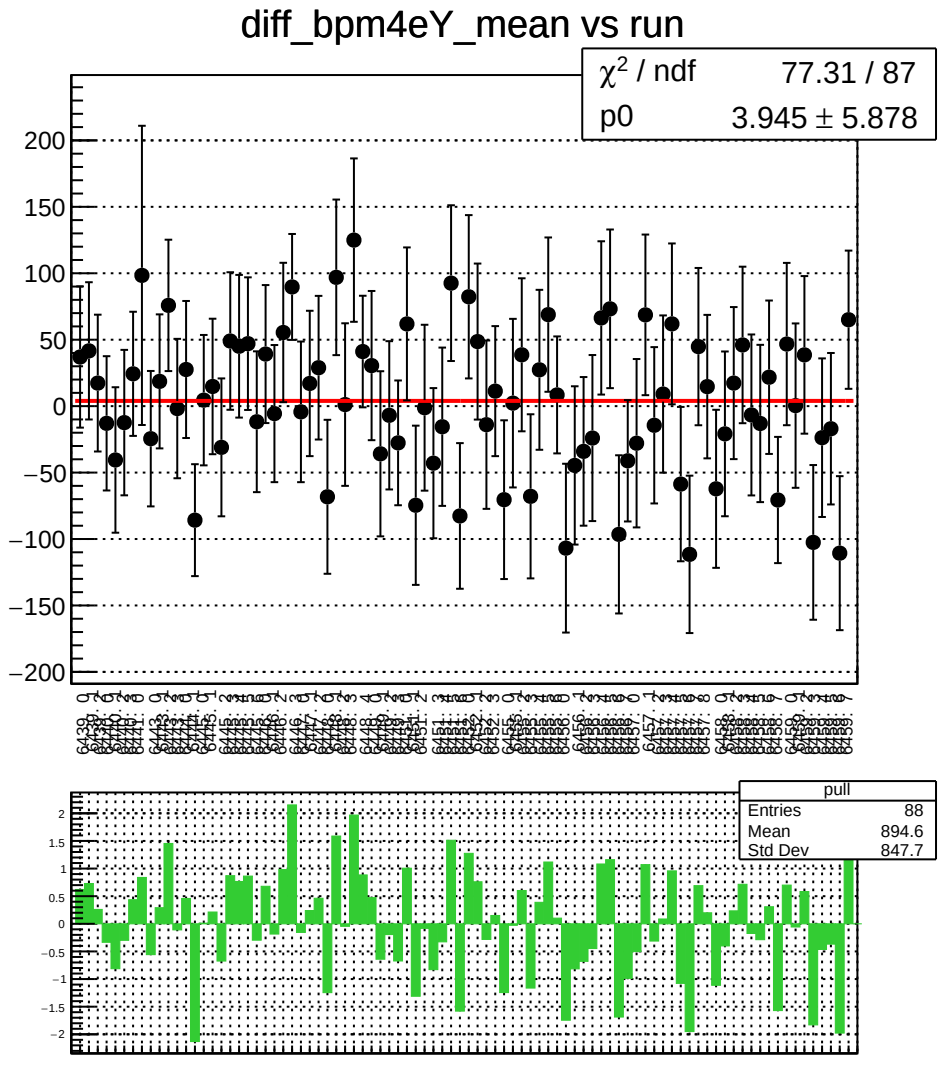

pull1D
Entries 88
Mean −0.005982
Std Dev 0.9206

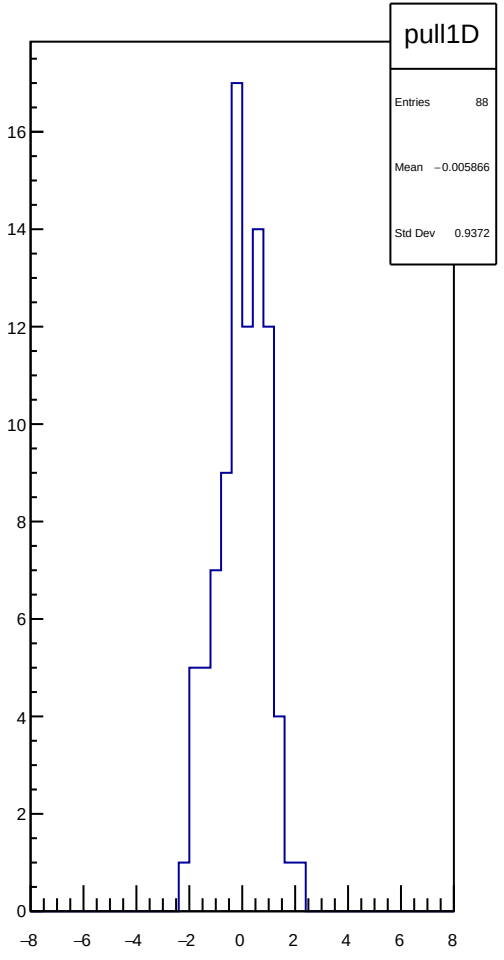

diff_bpm4aY_rms vs run
χ² / ndf 5623 / 87
p0 5323 ± 4.093
6000
5800
5600
5400
5200
5000
4800
4600

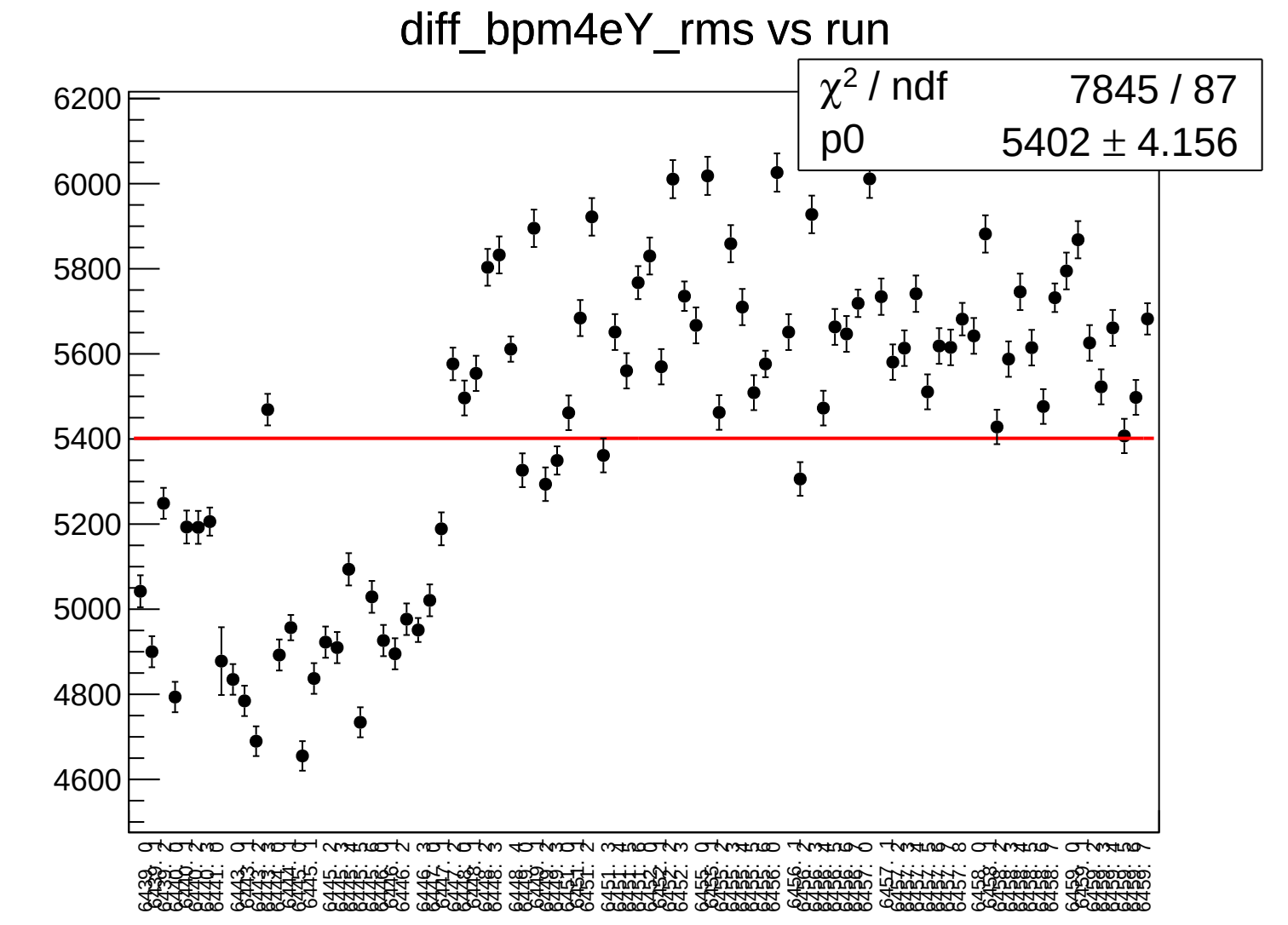

diff_bpm4eX_mean vs run
χ² / ndf 67.73 / 87
p0 −25.23 ± 10.53
pull
Entries 88
Mean 255.5
Std Dev 168.8

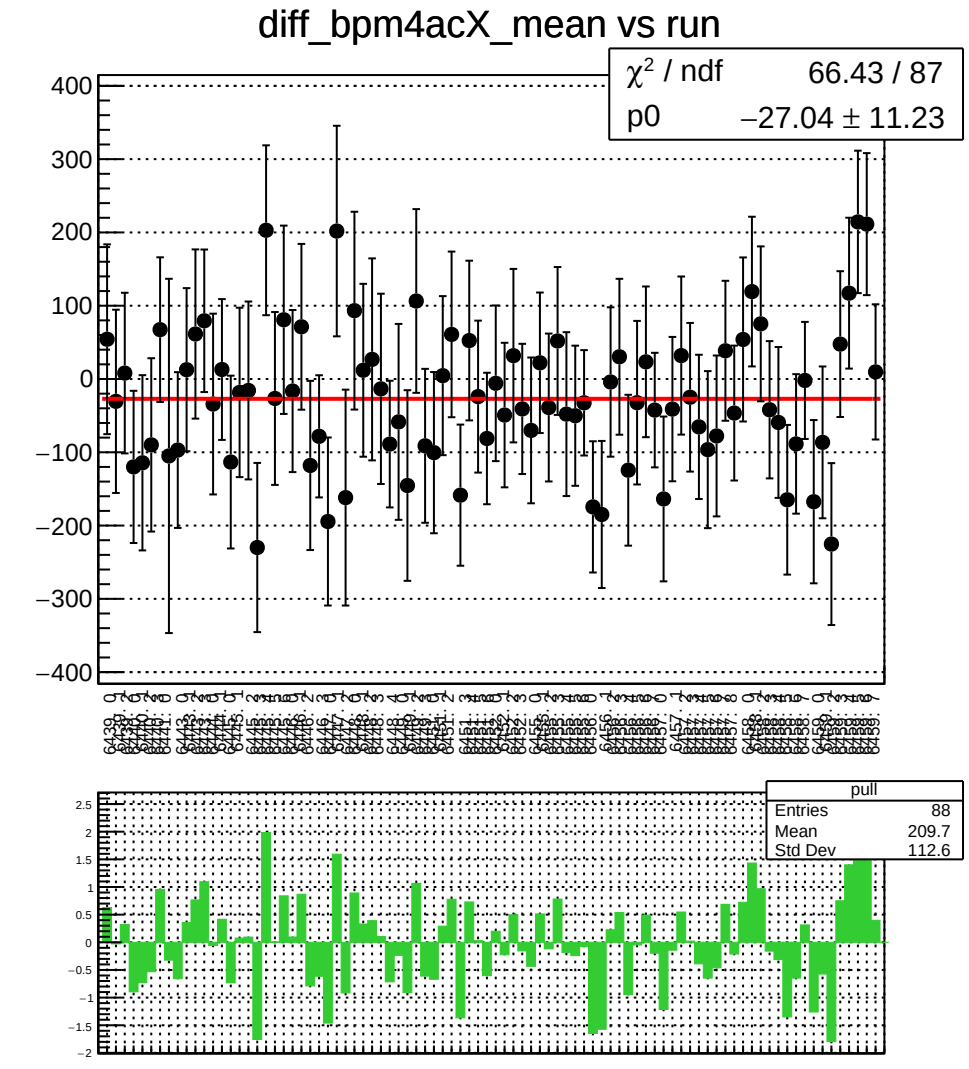

pull1D
Entries 88
Mean 0.005667
Std Dev 0.8773

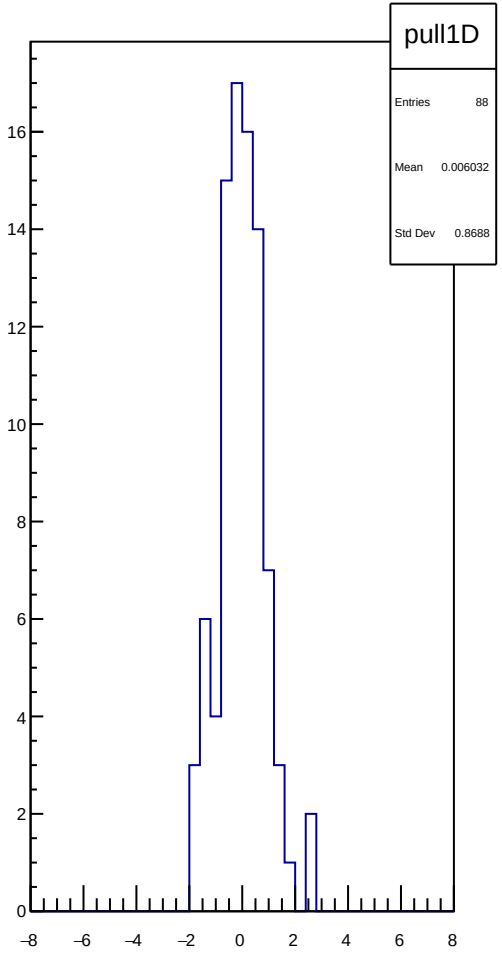

diff_bpm4eX_rms vs run
χ^2 / ndf 1.671e+04 / 87
p0 9648 ± 7.443
14000
13000
12000
11000
10000
9000
8000

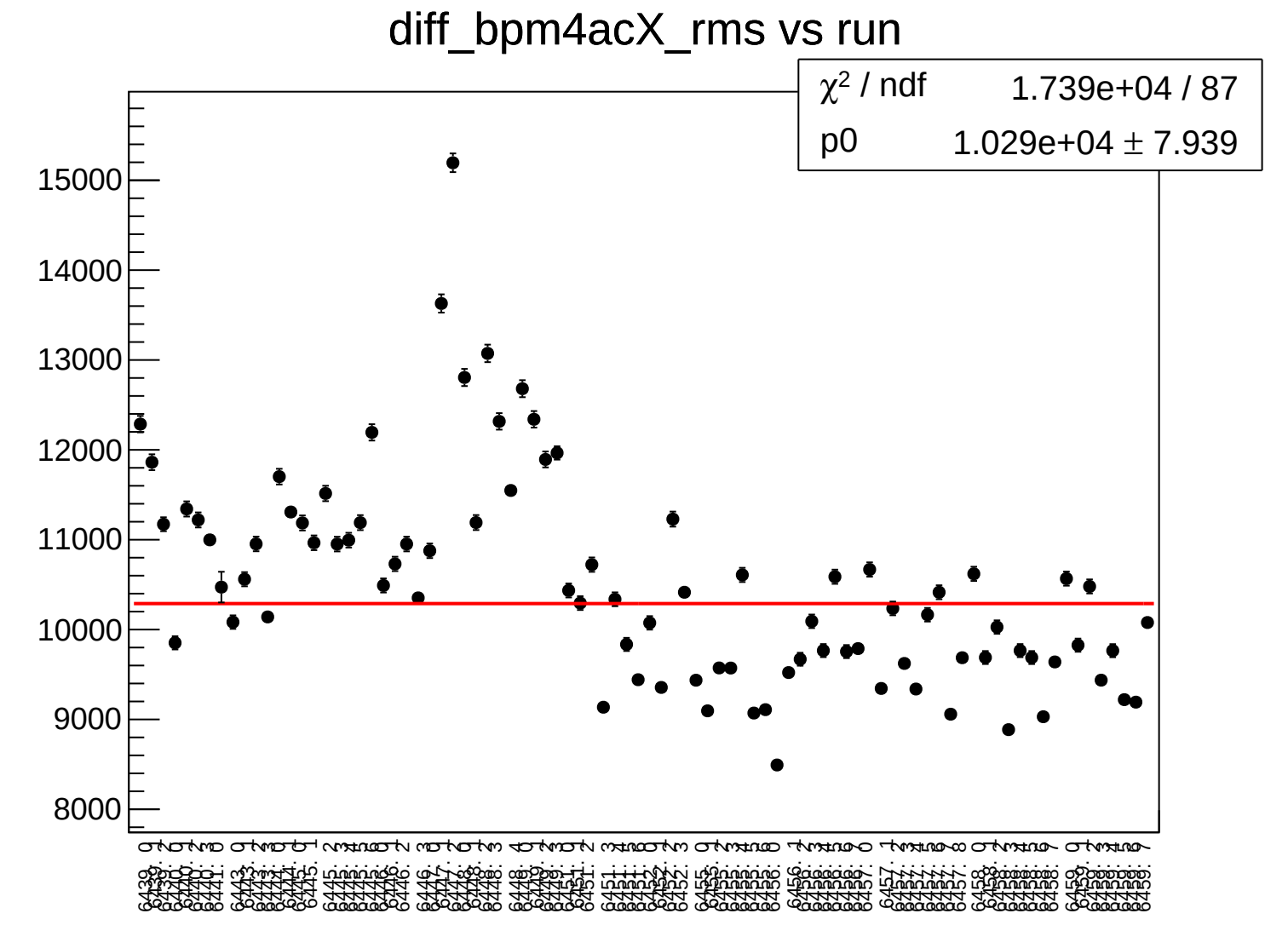

diff_bpm4eY_mean vs run
χ^2 / ndf 77.31 / 87
p0 3.945 ± 5.878
pull
Entries 88
Mean 894.6
Std Dev 847.7

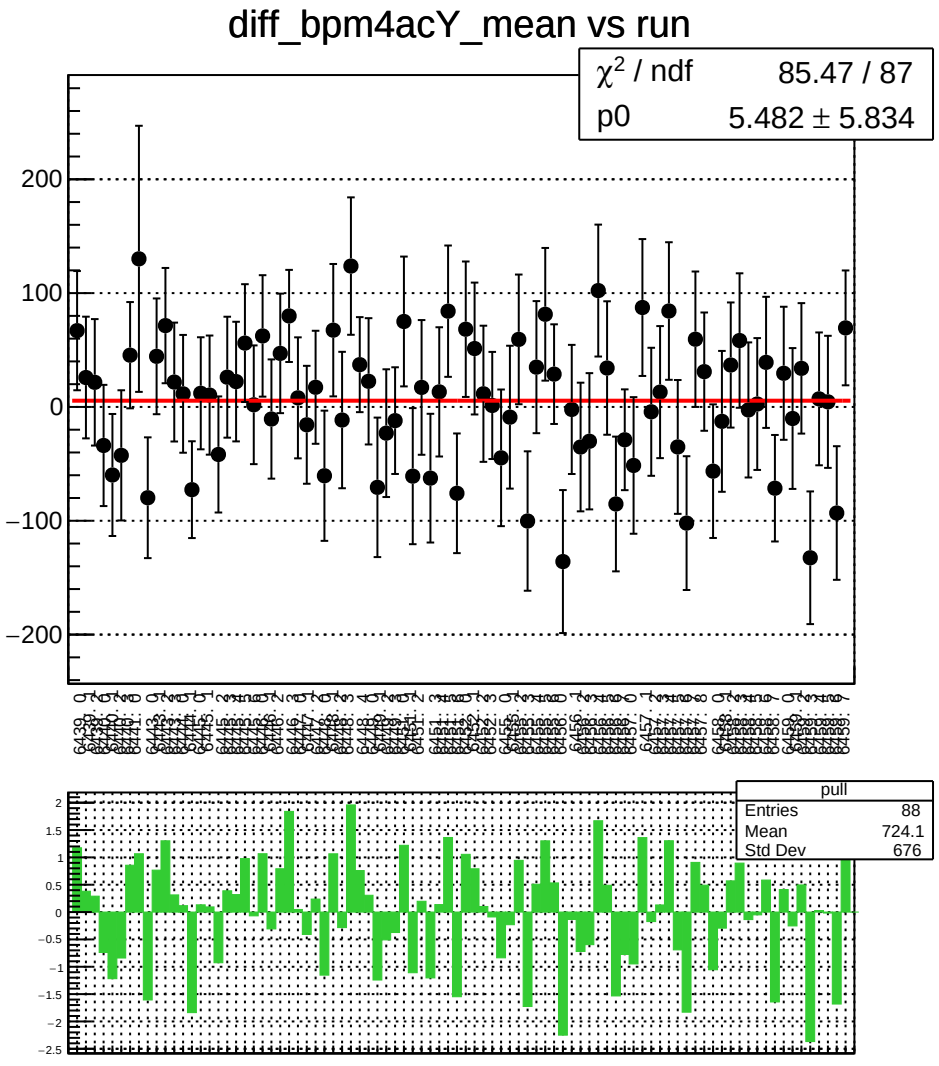

pull1D
Entries 88
Mean −0.005866
Std Dev 0.9372

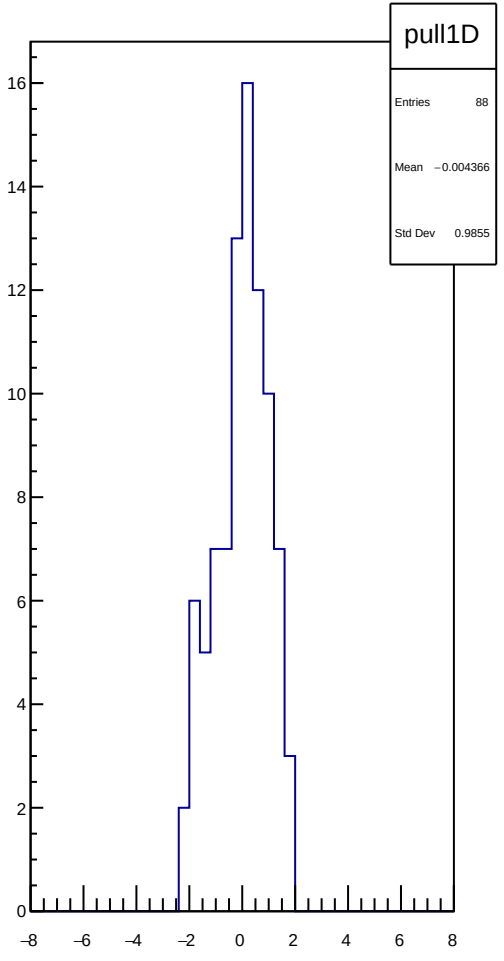

diff_bpm4eY_rms vs run
χ² / ndf 7845 / 87
p0 5402 ± 4.156
6200
6000
5800
5600
5400
5200
5000
4800
4600

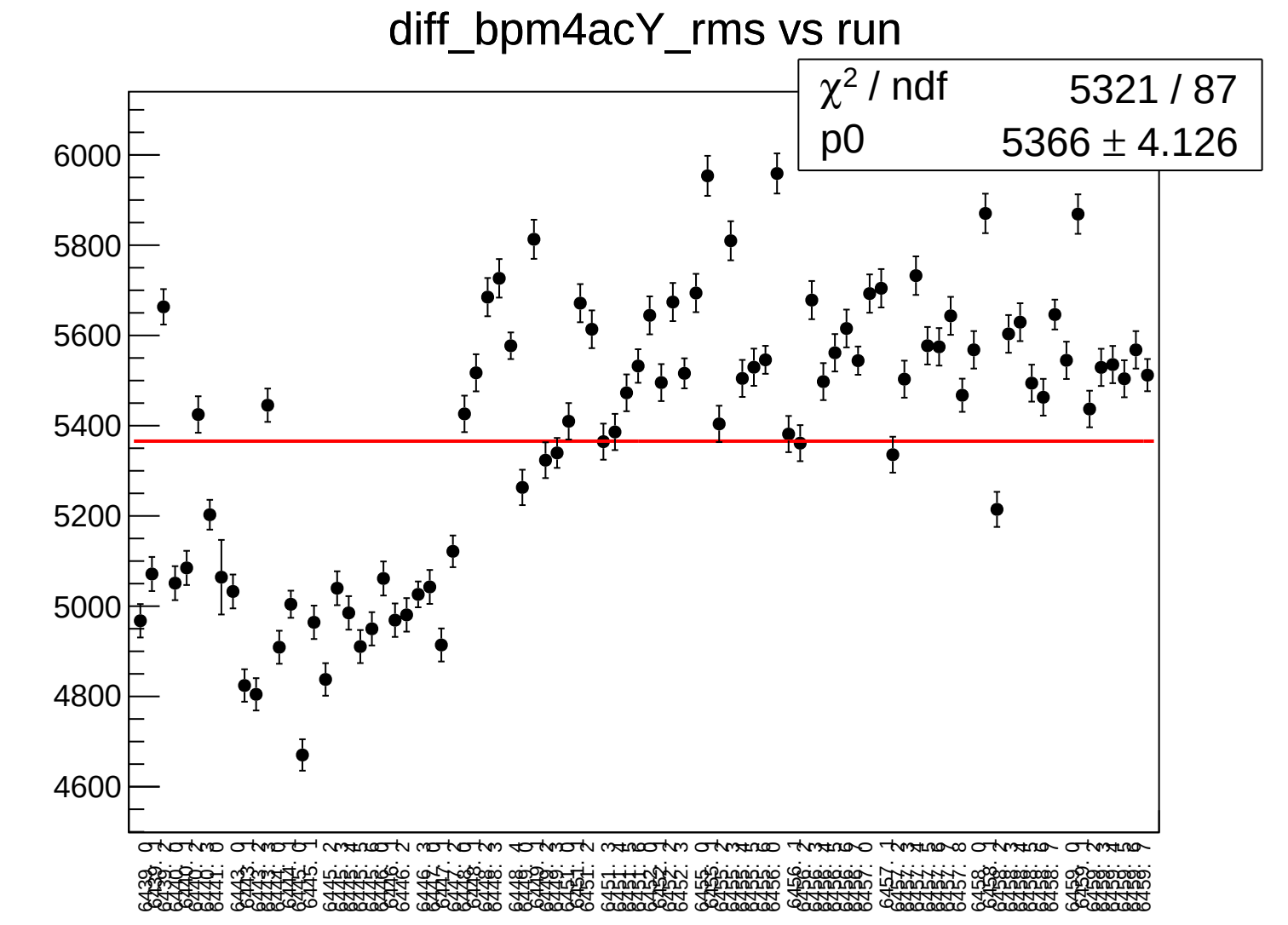

diff_bpm4acX_mean vs run
χ² / ndf 66.43 / 87
p0 −27.04 ± 11.23
pull
Entries 88
Mean 209.7
Std Dev 112.6

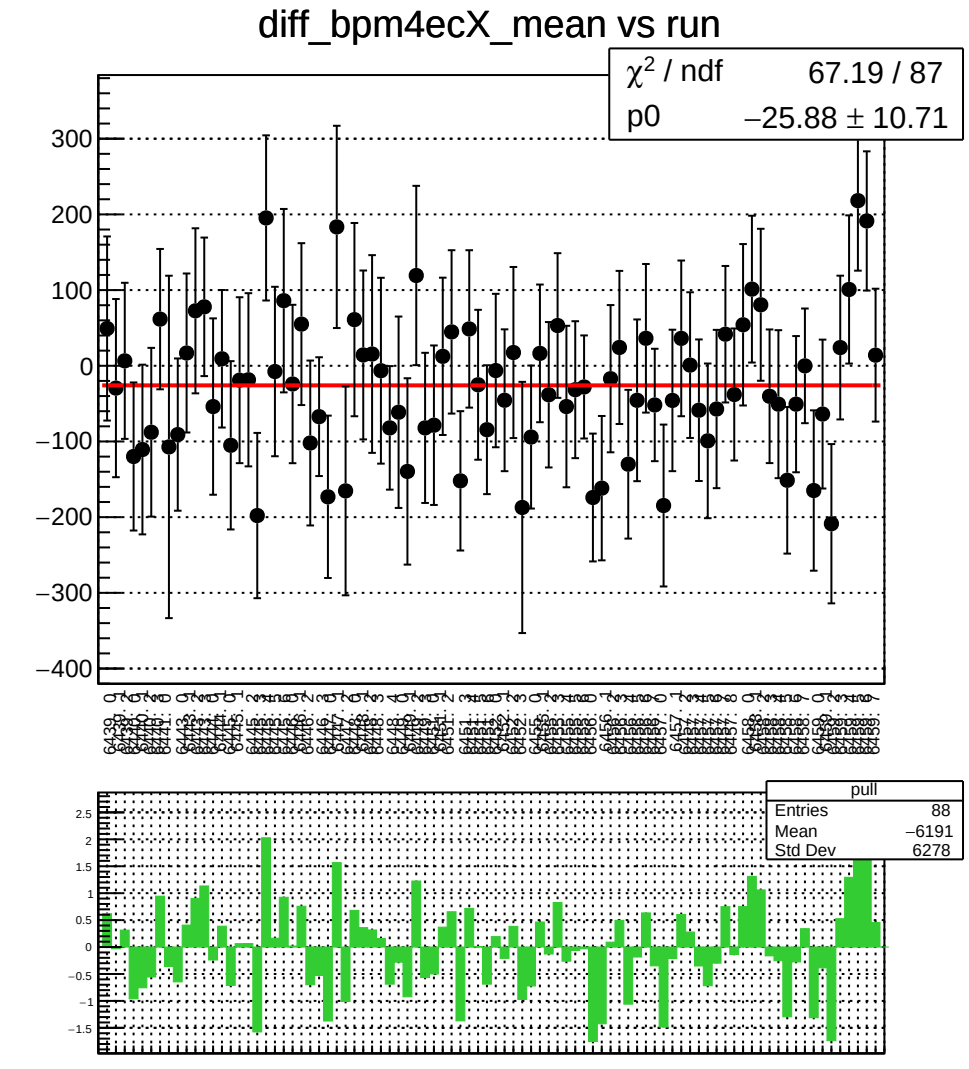

pull1D
Entries 88
Mean 0.006032
Std Dev 0.8688

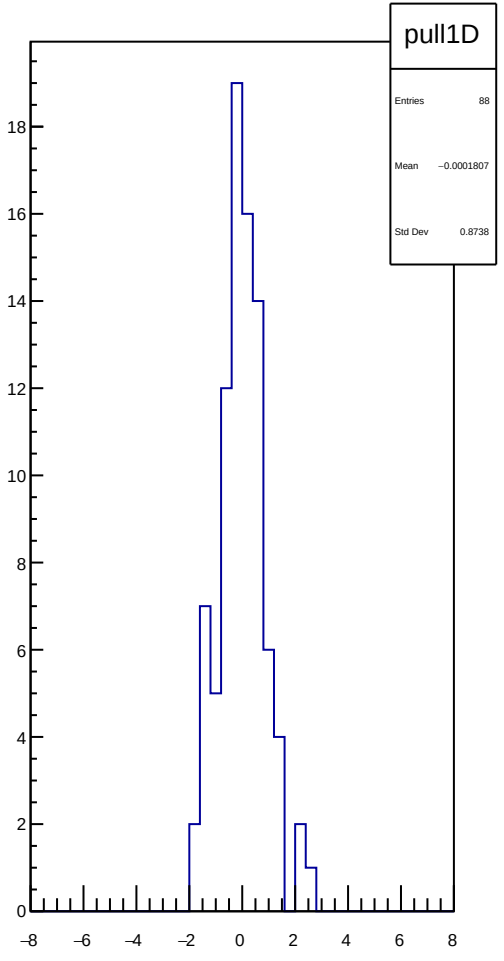

diff_bpm4acX_rms vs run
χ² / ndf 1.739e+04 / 87
p0 1.029e+04 ± 7.939
15000
14000
13000
12000
11000
10000
9000
8000

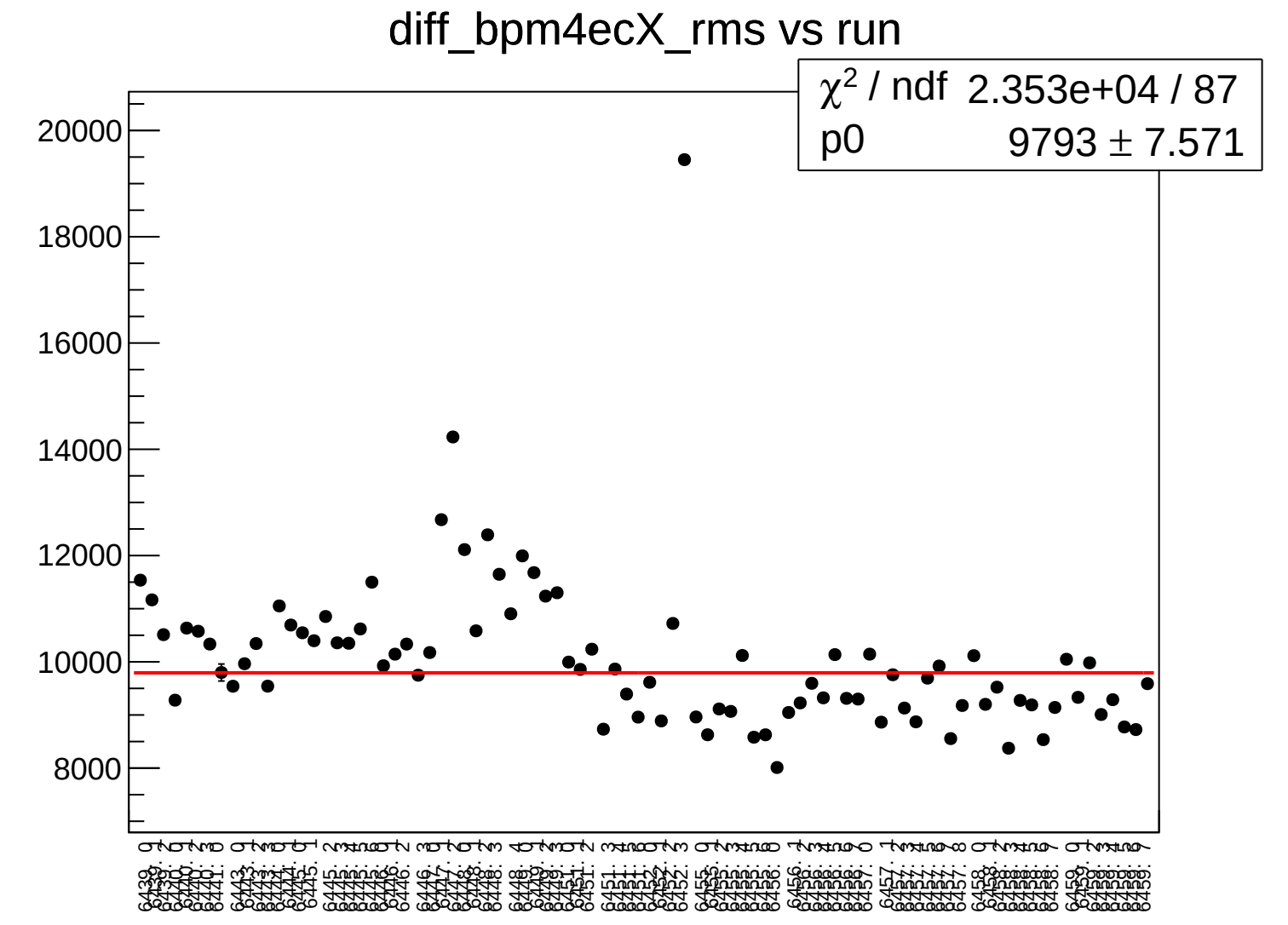

diff_bpm4acY_mean vs run
χ^2 / ndf 85.47 / 87
p0 5.482 ± 5.834
200
100
0
−100
−200
pull
Entries 88
Mean 724.1
Std Dev 676
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

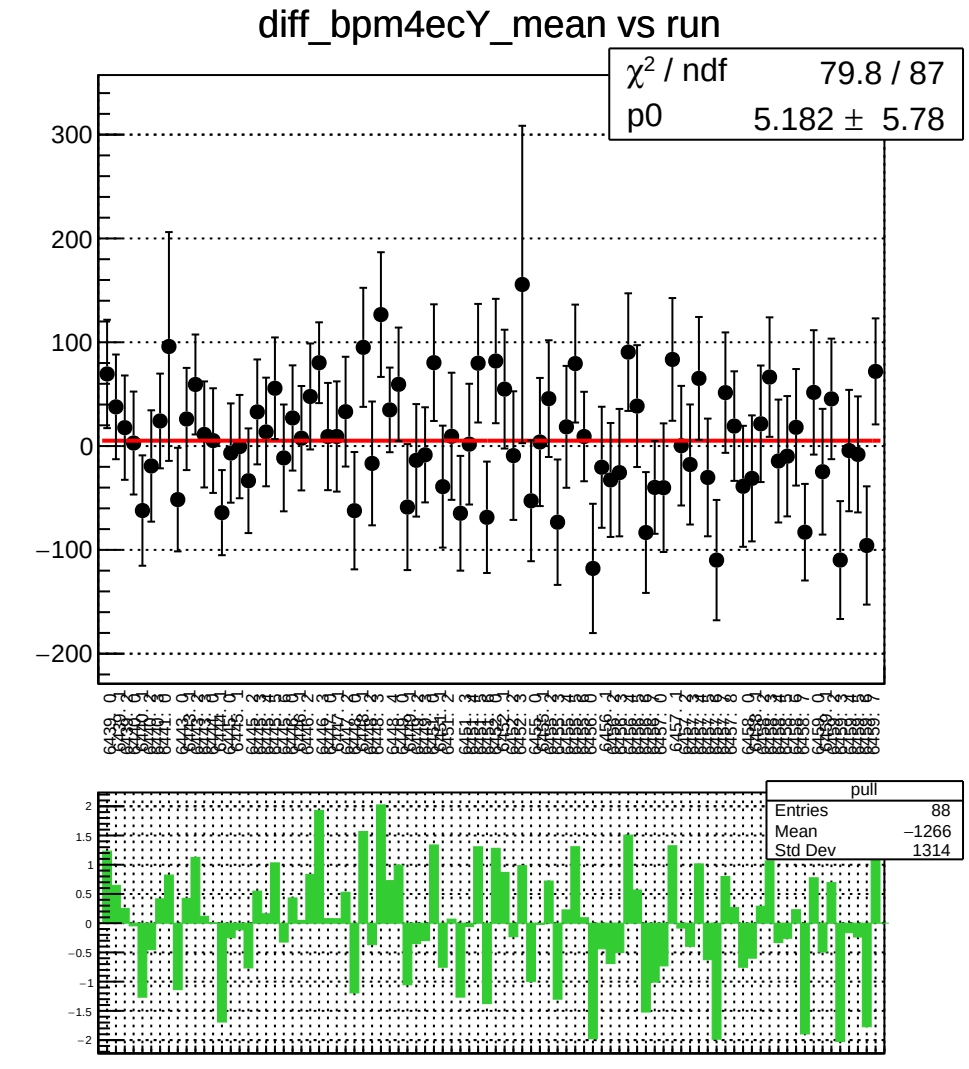

pull1D
Entries 88
Mean −0.004366
Std Dev 0.9855
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

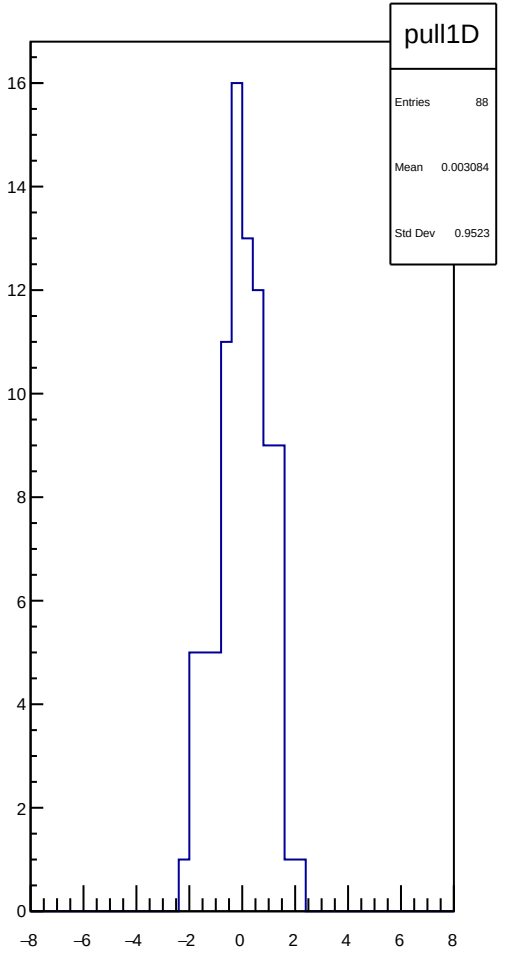

diff_bpm4acY_rms vs run
χ² / ndf 5321 / 87
p0 5366 ± 4.126
6000
5800
5600
5400
5200
5000
4800
4600

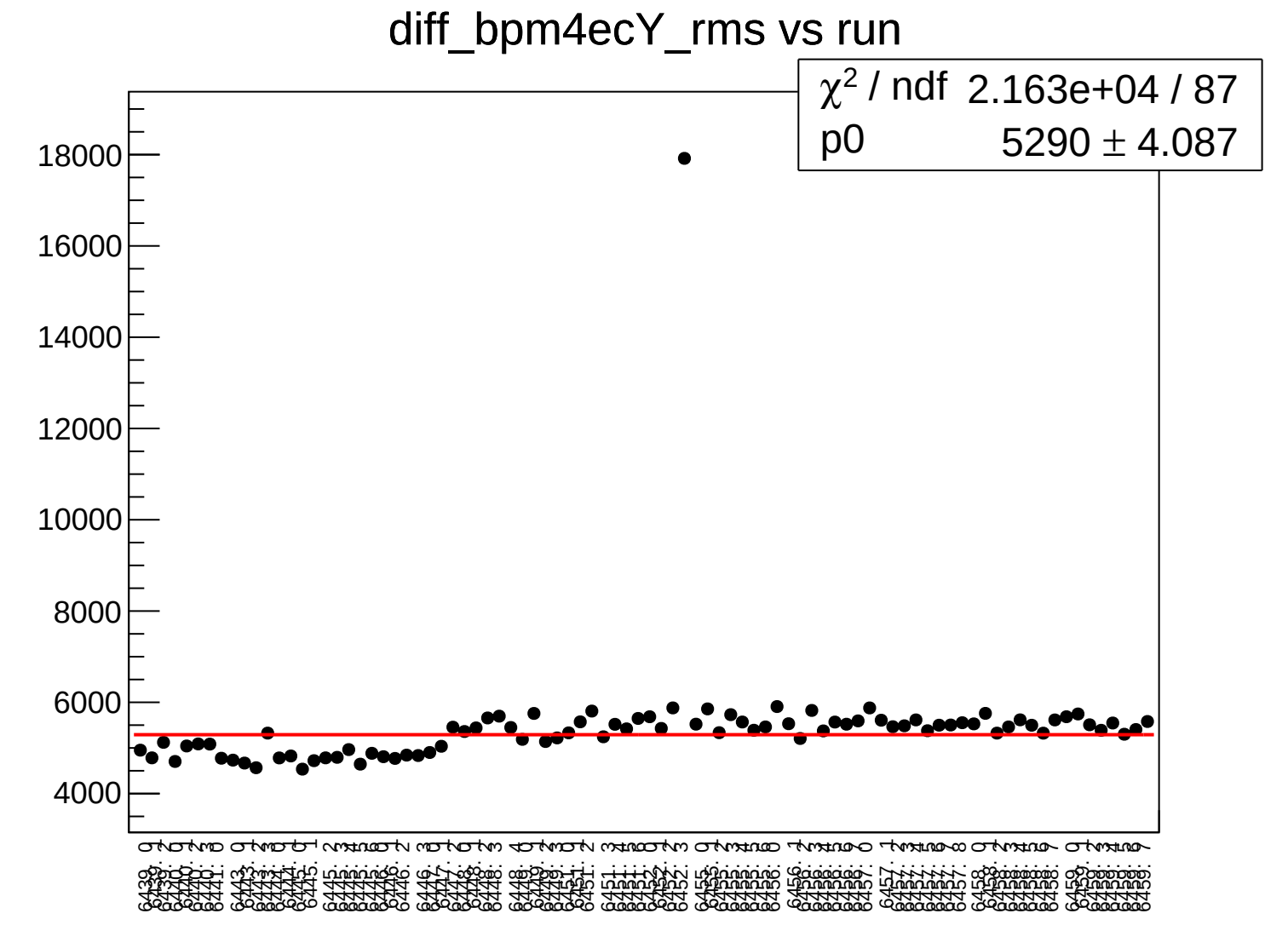

diff_bpm4ecX_mean vs run
χ^2 / ndf 67.19 / 87
p0 −25.88 ± 10.71
pull
Entries 88
Mean −6191
Std Dev 6278

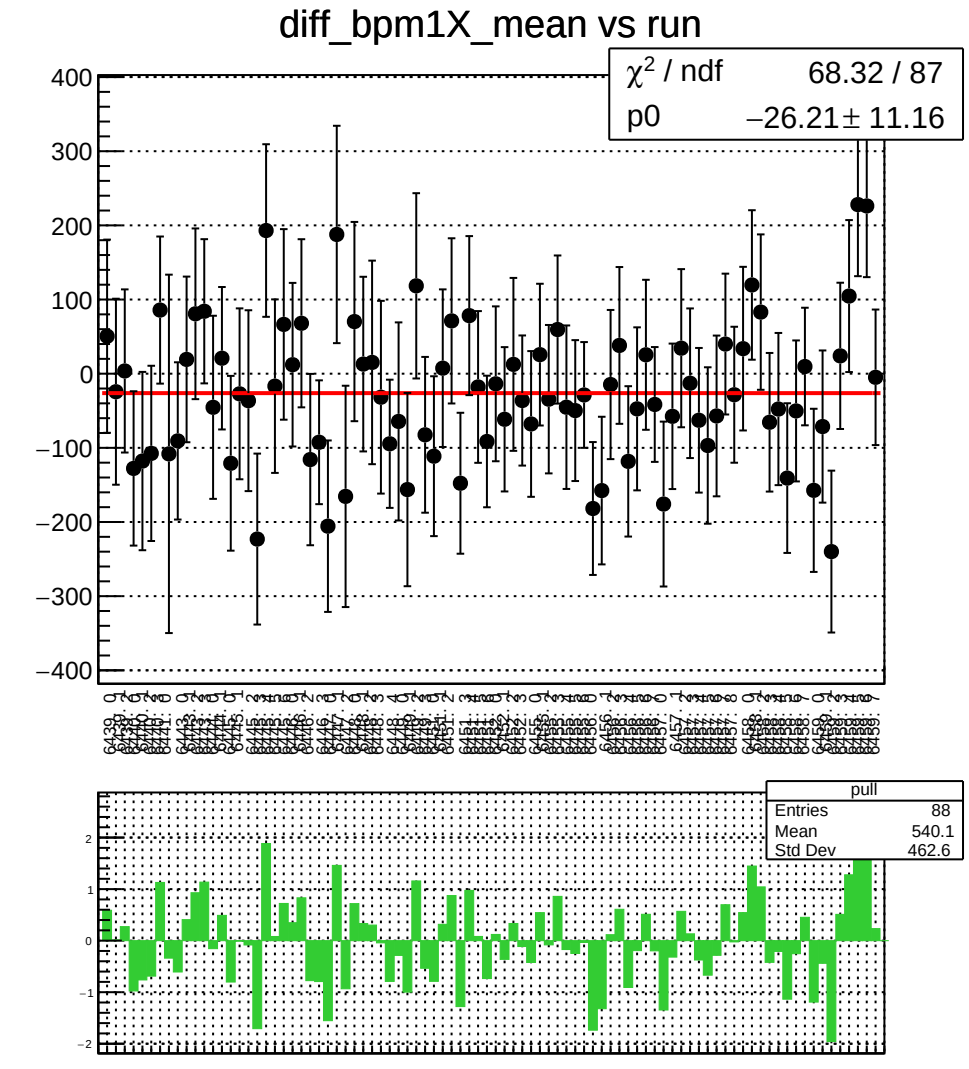

pull1D
Entries 88
Mean −0.0001807
Std Dev 0.8738

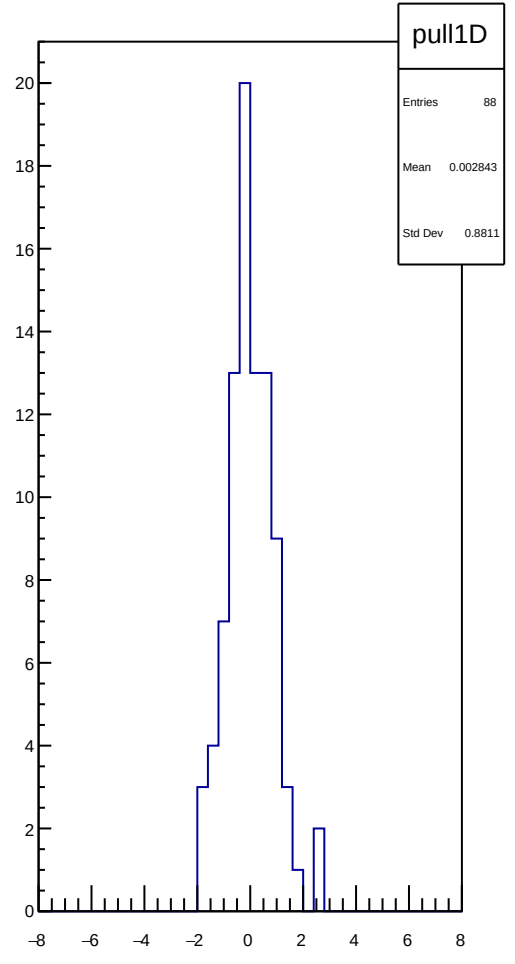

diff_bpm4ecX_rms vs run
χ^2 / ndf 2.353e+04 / 87
p0 9793 ± 7.571
20000
18000
16000
14000
12000
10000
8000

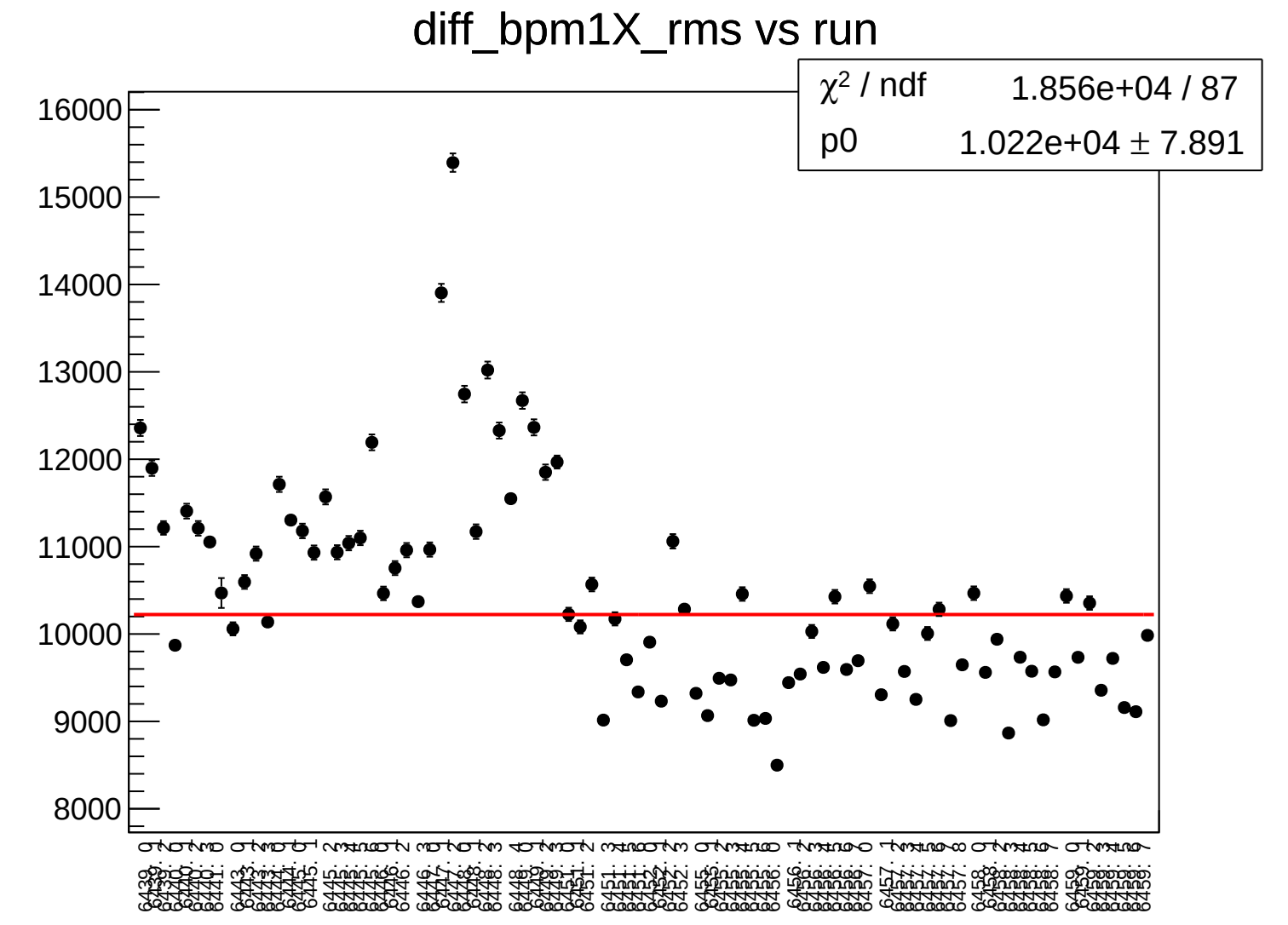

diff_bpm4ecY_mean vs run
χ² / ndf 79.8 / 87
p0 5.182 ± 5.78
pull
Entries 88
Mean −1266
Std Dev 1314

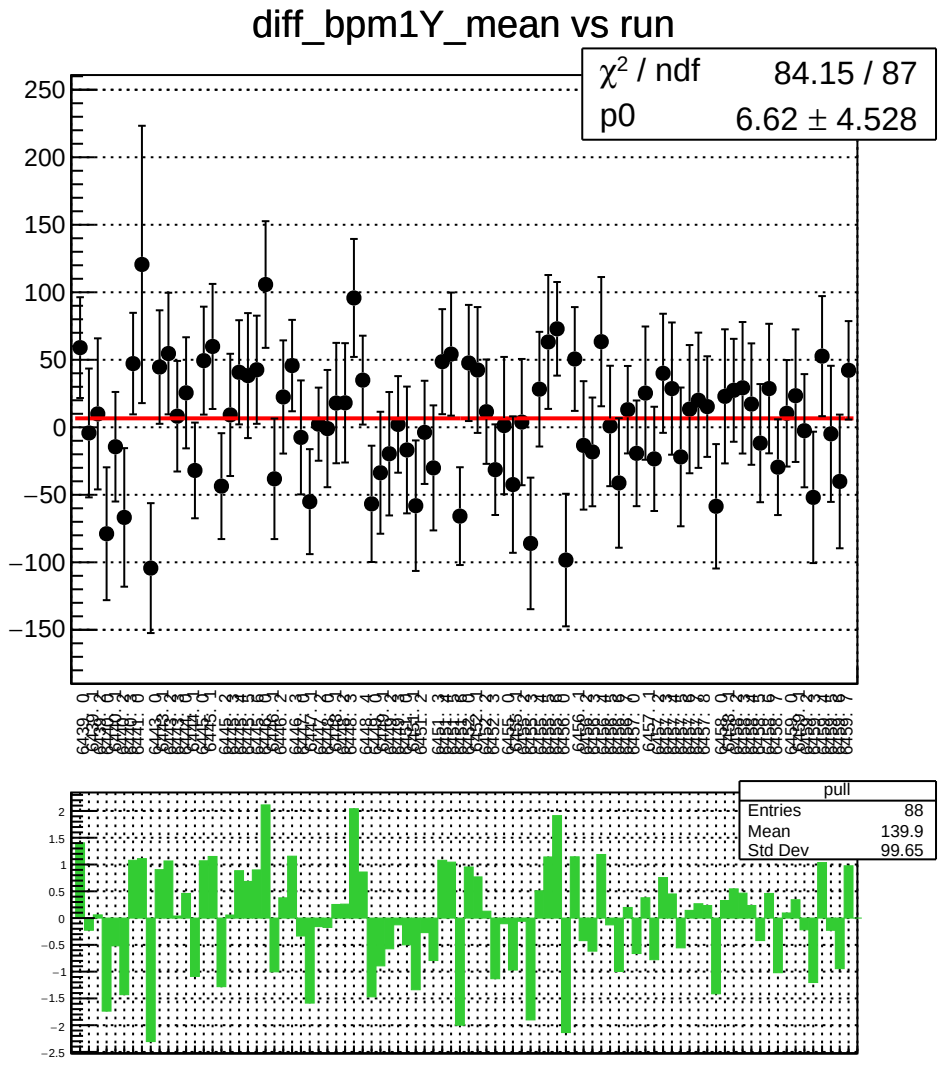

pull1D
Entries 88
Mean 0.003084
Std Dev 0.9523

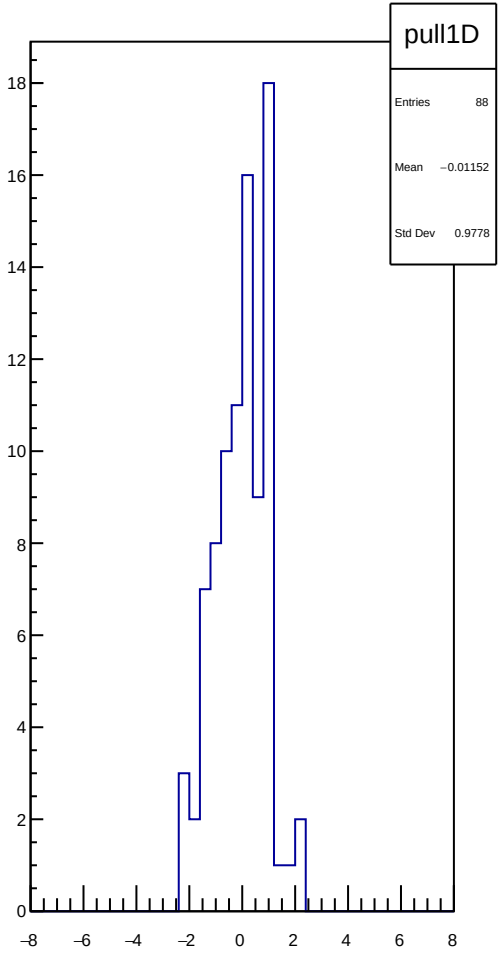

diff_bpm4ecY_rms vs run
χ² / ndf 2.163e+04 / 87
p0 5290 ± 4.087
18000
16000
14000
12000
10000
8000
6000
4000

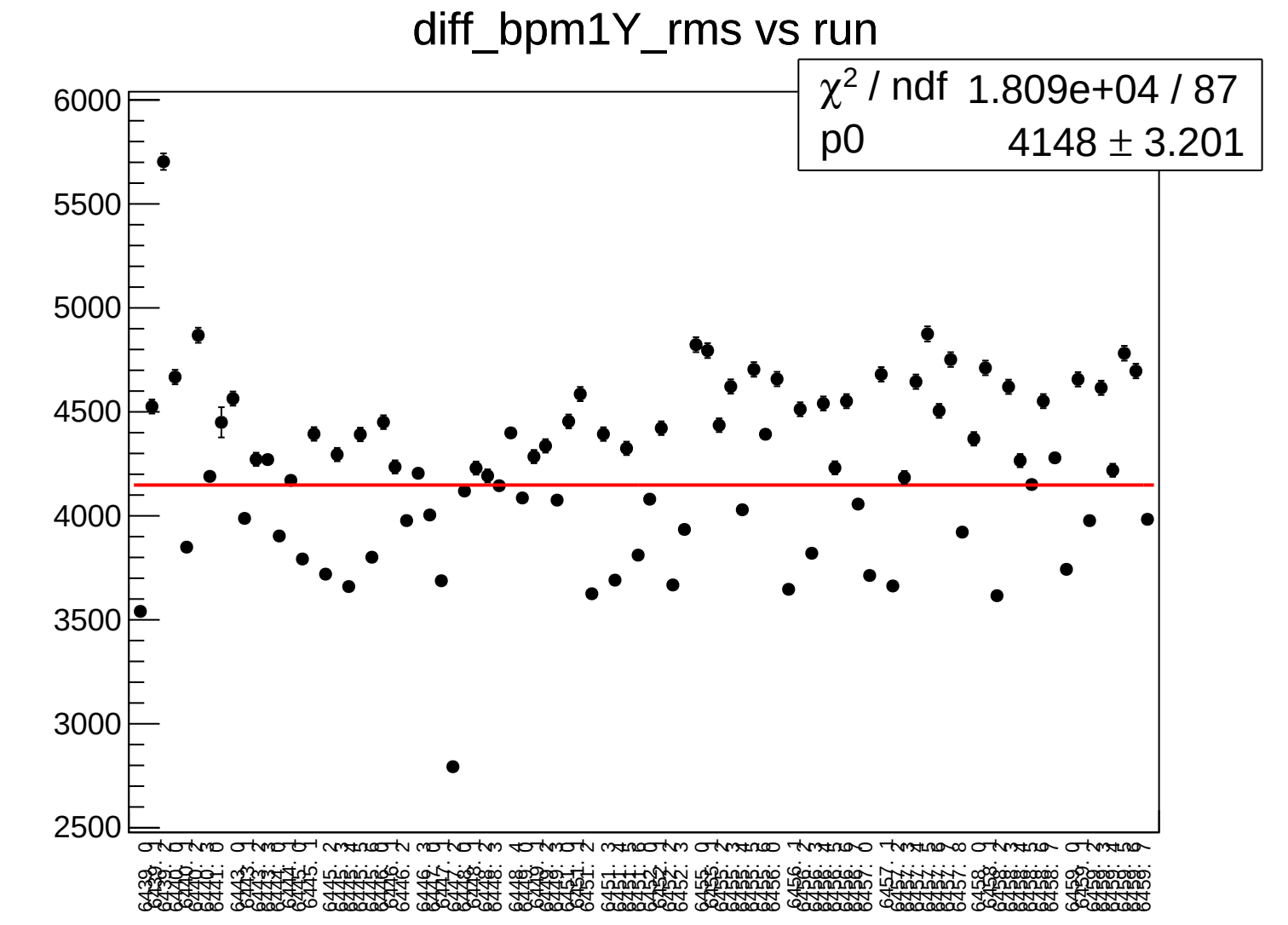

diff_bpm1X_mean vs run
χ² / ndf 68.32 / 87
p0 −26.21± 11.16
pull
Entries 88
Mean 540.1
Std Dev 462.6

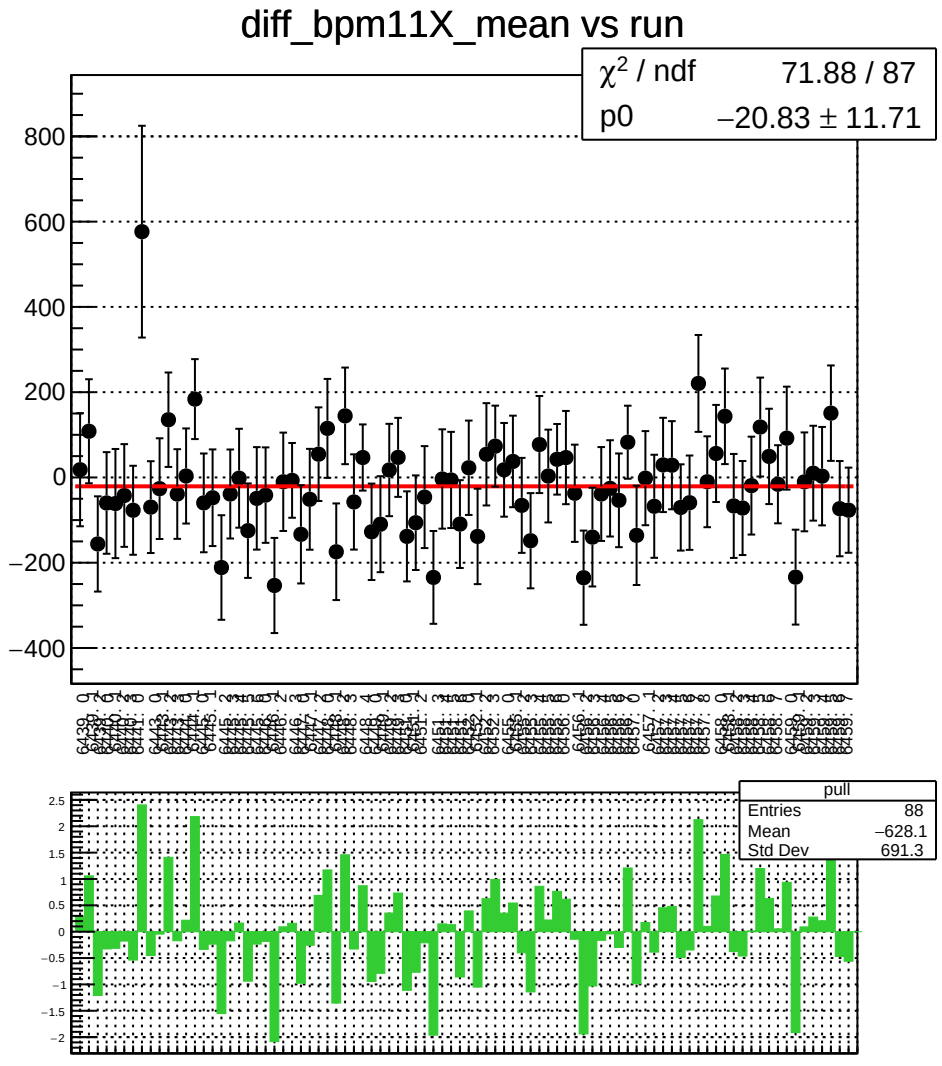

pull1D
Entries 88
Mean 0.002843
Std Dev 0.8811

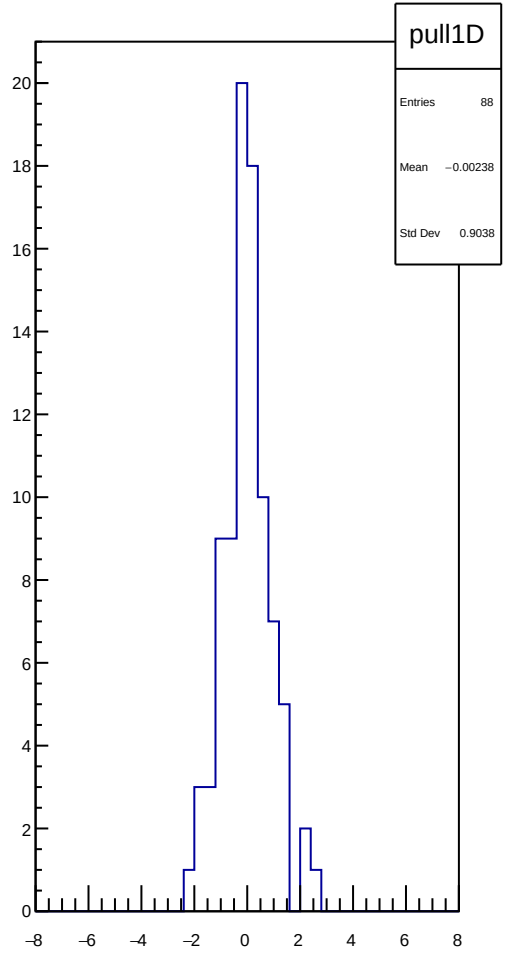

diff_bpm1X_rms vs run
χ² / ndf 1.856e+04 / 87
p0 1.022e+04 ± 7.891
16000
15000
14000
13000
12000
11000
10000
9000
8000

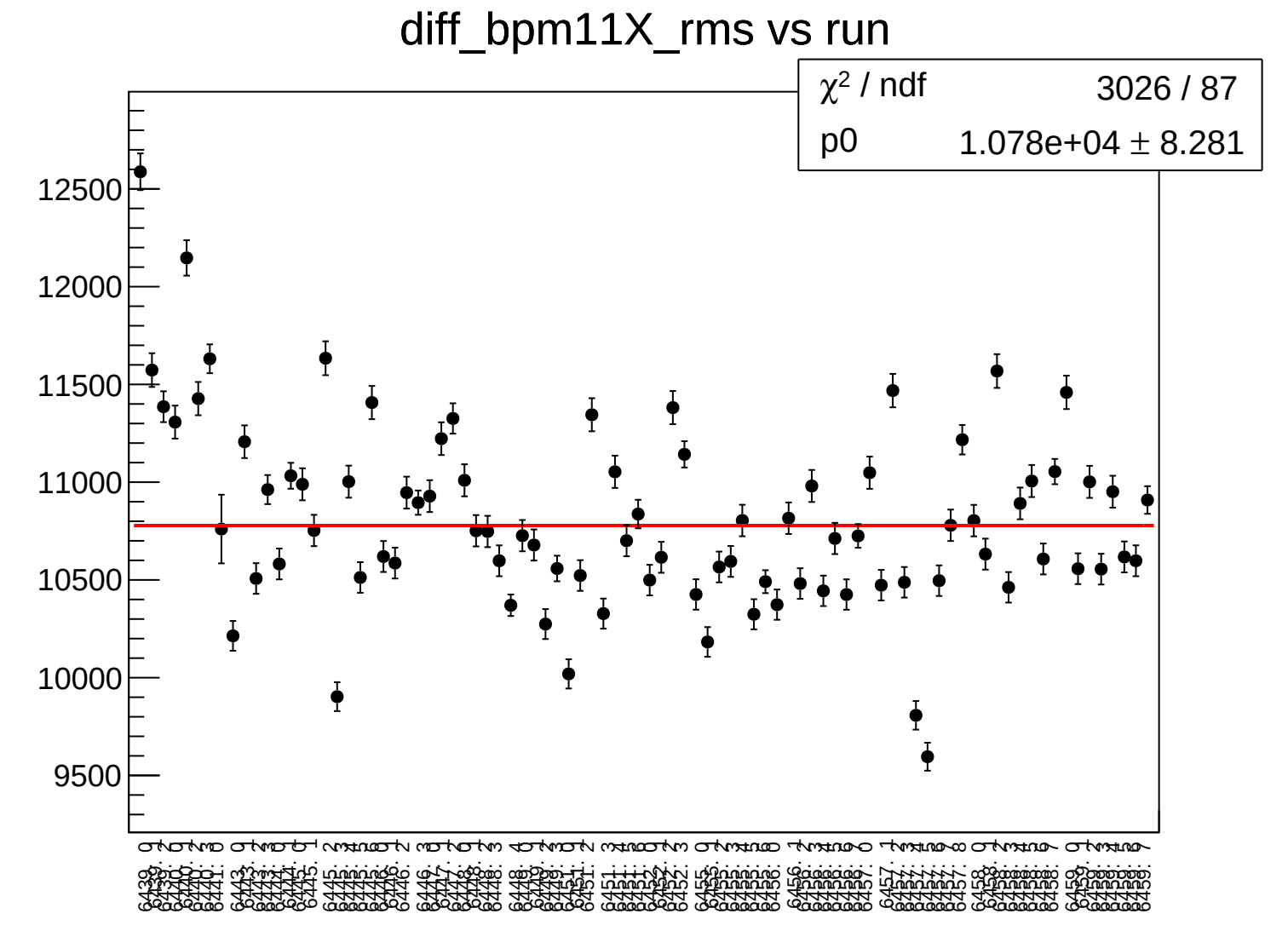

diff_bpm1Y_mean vs run
χ² / ndf 84.15 / 87
p0 6.62 ± 4.528
pull
Entries 88
Mean 139.9
Std Dev 99.65

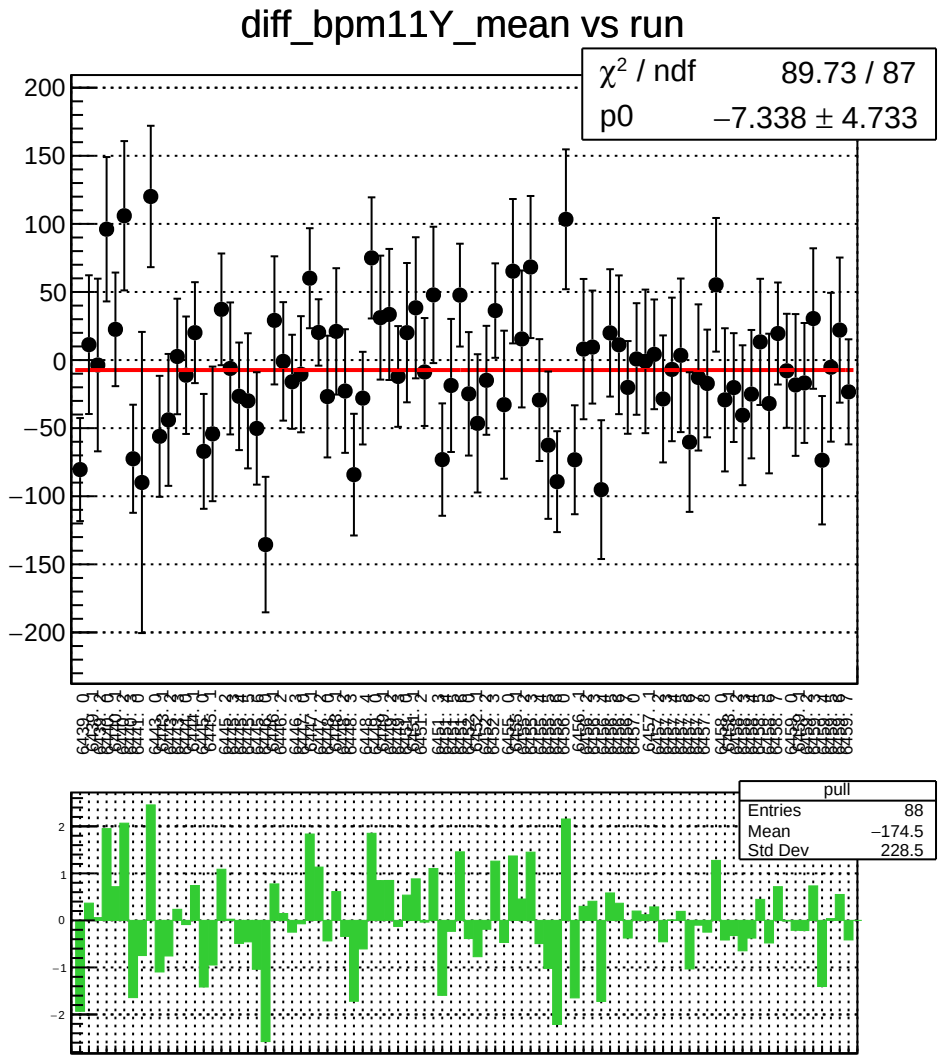

pull1D
Entries 88
Mean −0.01152
Std Dev 0.9778

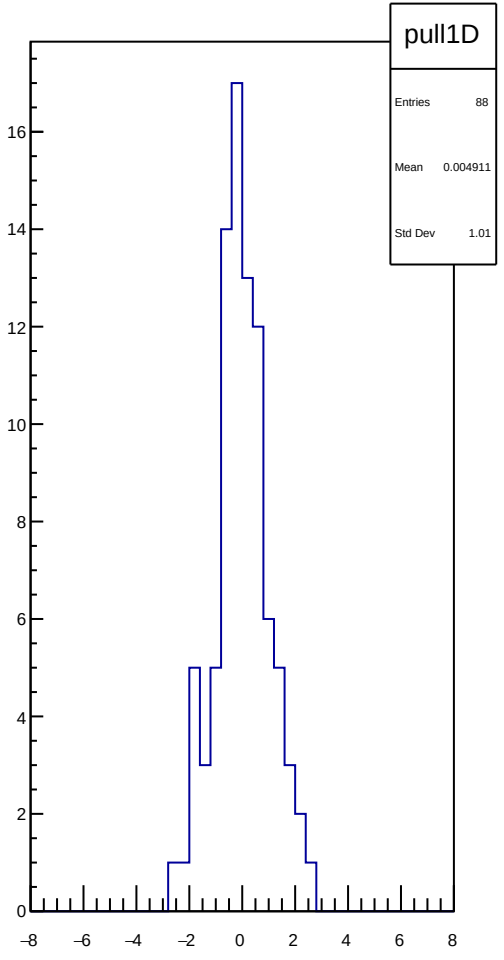

diff_bpm1Y_rms vs run
χ² / ndf 1.809e+04 / 87
p0 4148 ± 3.201
6000
5500
5000
4500
4000
3500
3000
2500

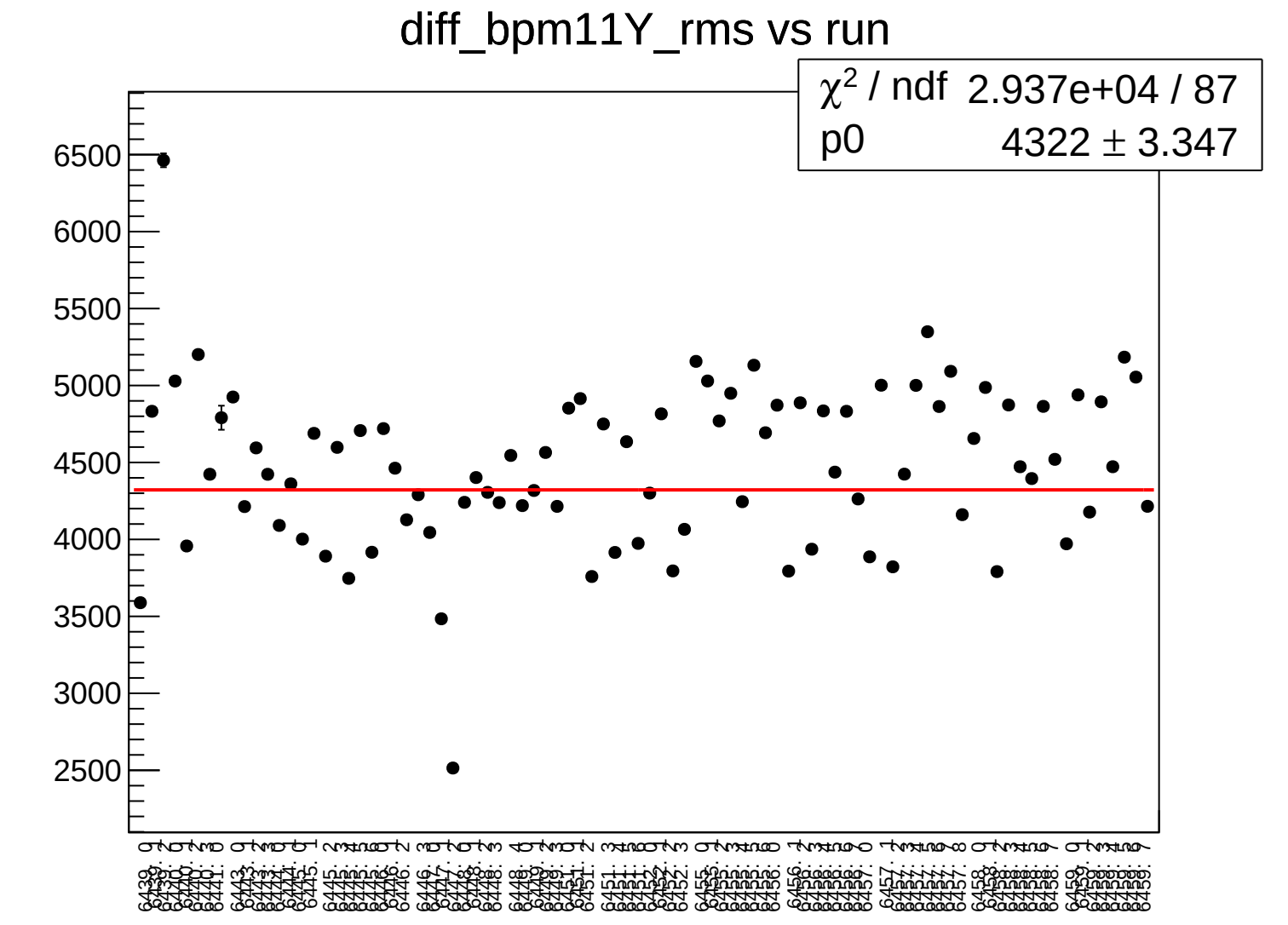

diff_bpm11X_mean vs run
χ^2 / ndf 71.88 / 87
p0 −20.83 ± 11.71
800
600
400
200
0
−200
−400
pull
Entries 88
Mean −628.1
Std Dev 691.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

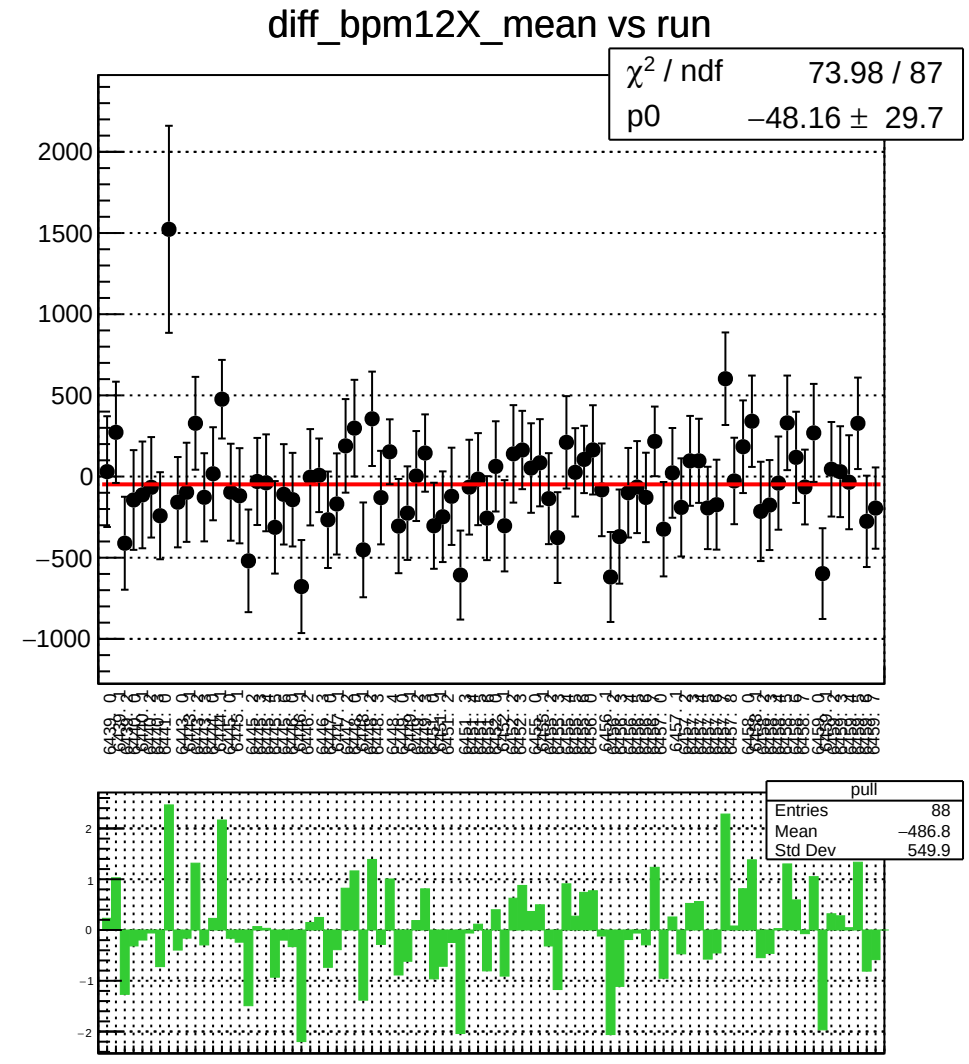

pull1D
Entries 88
Mean −0.00238
Std Dev 0.9038
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

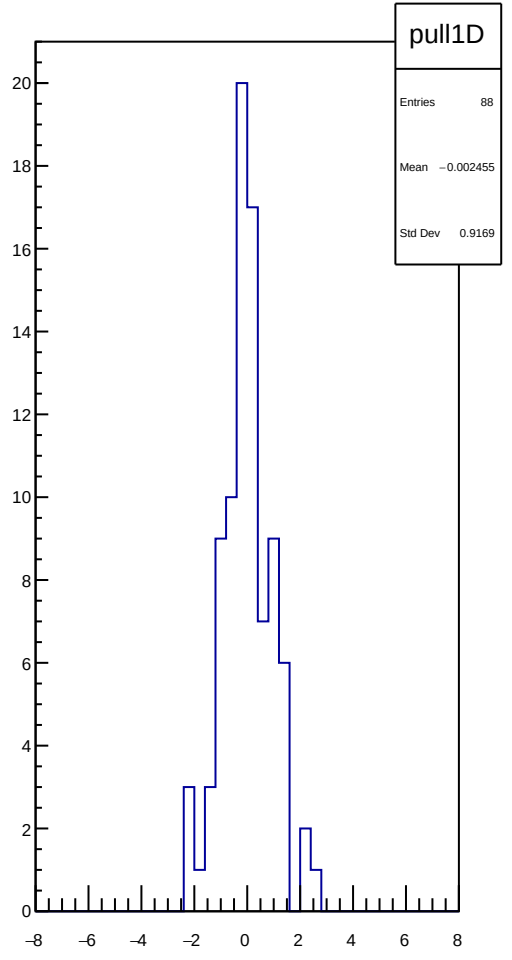

diff_bpm11X_rms vs run
χ² / ndf 3026 / 87
p0 1.078e+04 ± 8.281
12500
12000
11500
11000
10500
10000
9500

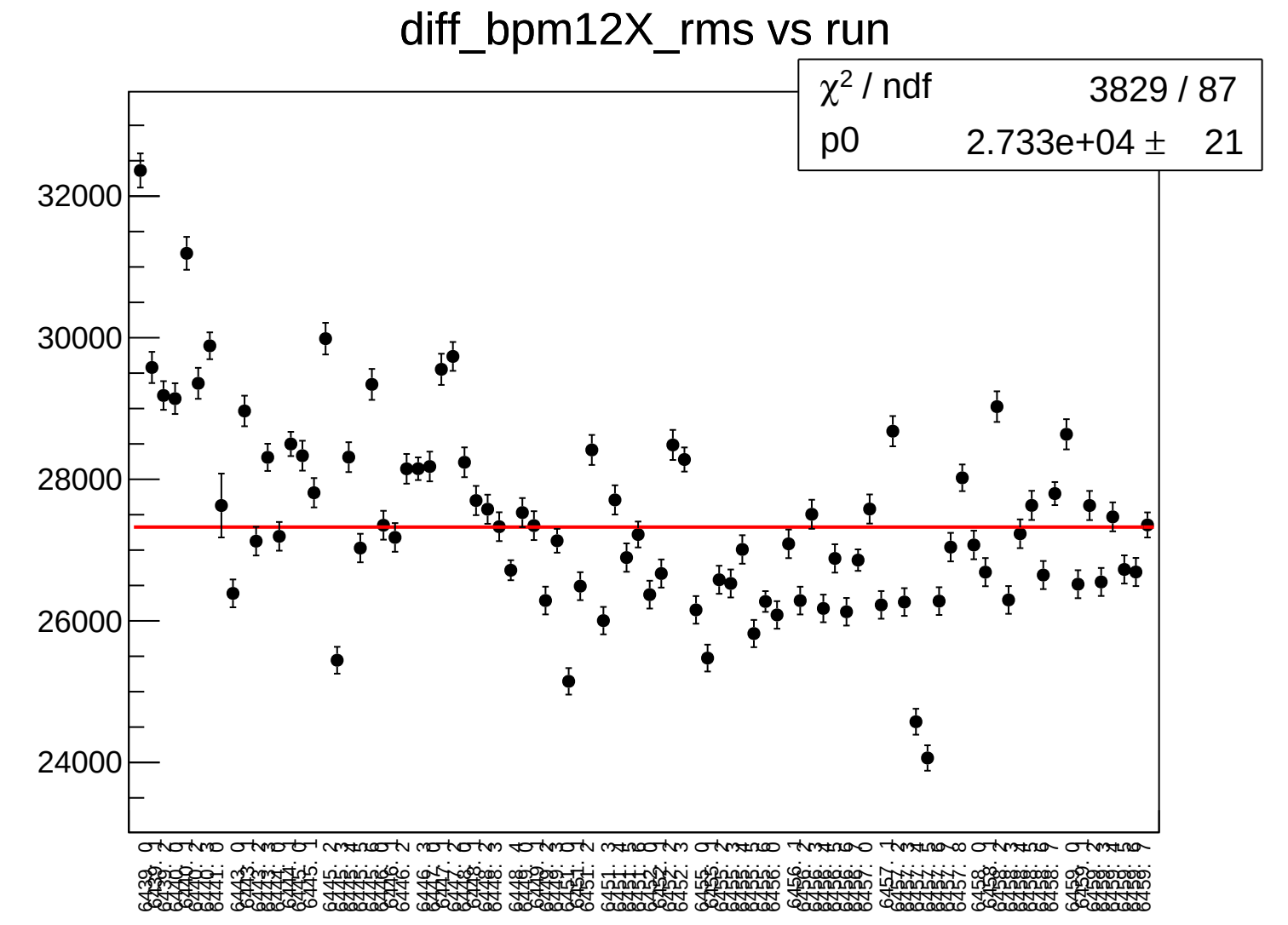

diff_bpm11Y_mean vs run
χ² / ndf 89.73 / 87
p0 −7.338 ± 4.733
pull
Entries 88
Mean −174.5
Std Dev 228.5

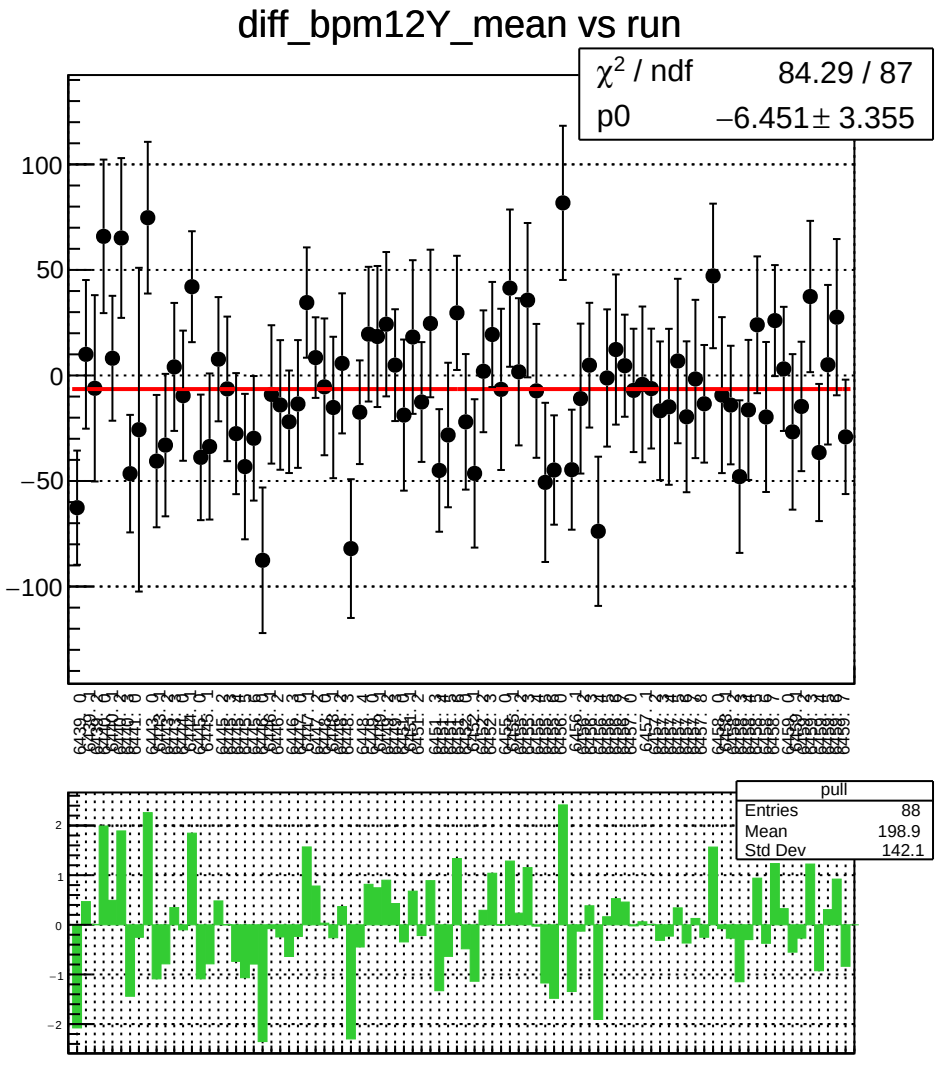

pull1D
Entries 88
Mean 0.004911
Std Dev 1.01

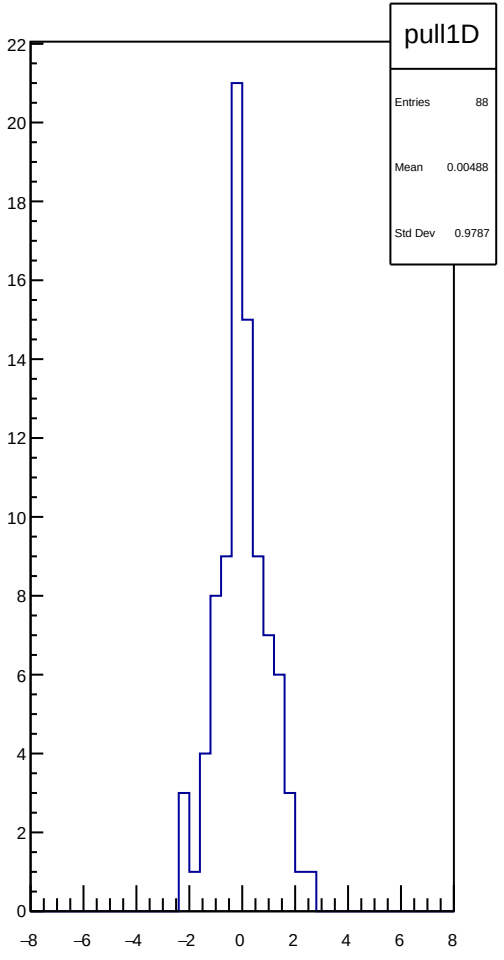

diff_bpm11Y_rms vs run
χ² / ndf 2.937e+04 / 87
p0 4322 ± 3.347
6500
6000
5500
5000
4500
4000
3500
3000
2500

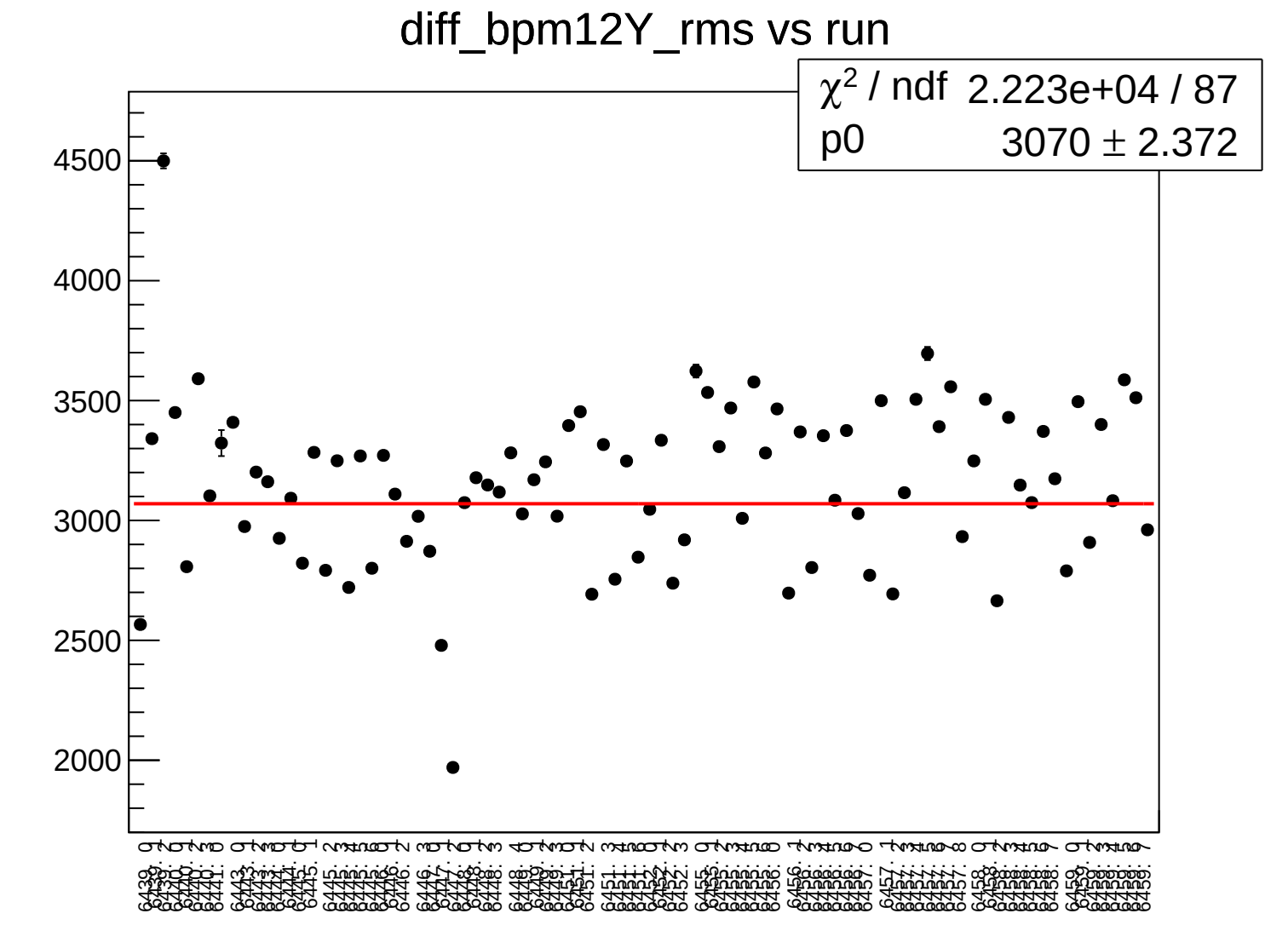

diff_bpm12X_mean vs run
χ² / ndf 73.98 / 87
p0 −48.16 ± 29.7
2000
1500
1000
500
0
−500
−1000
pull
Entries 88
Mean −486.8
Std Dev 549.9
2
1
0
−1
−2

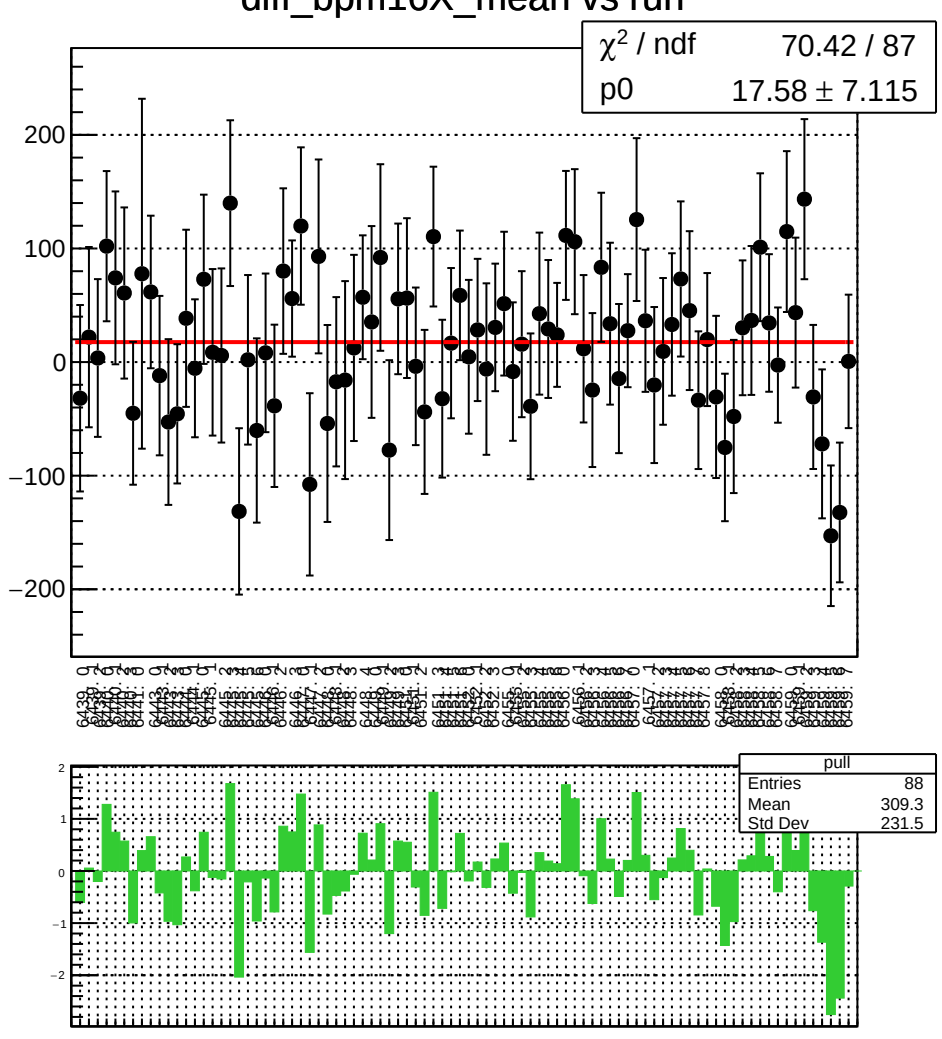

pull1D
Entries 88
Mean −0.002455
Std Dev 0.9169
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

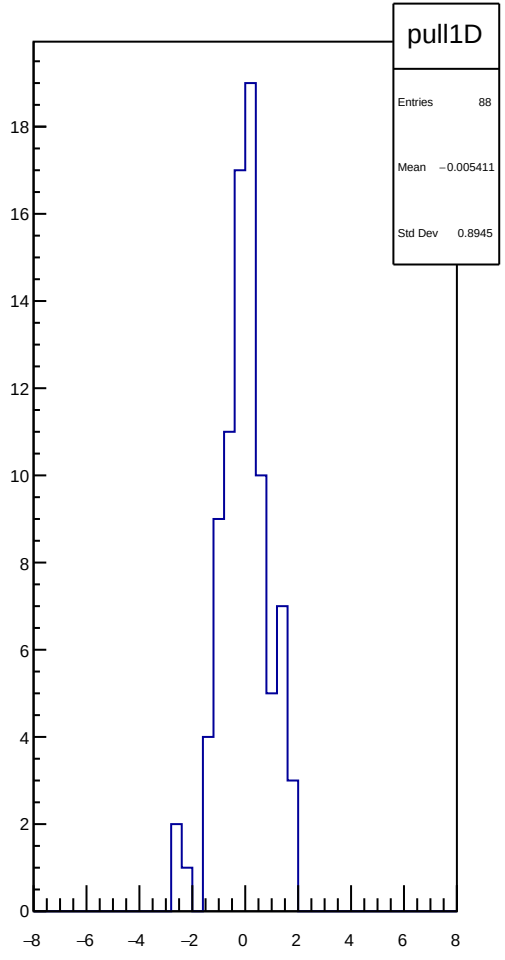

diff_bpm12X_rms vs run
χ² / ndf 3829 / 87
p0 2.733e+04 ± 21
32000
30000
28000
26000
24000

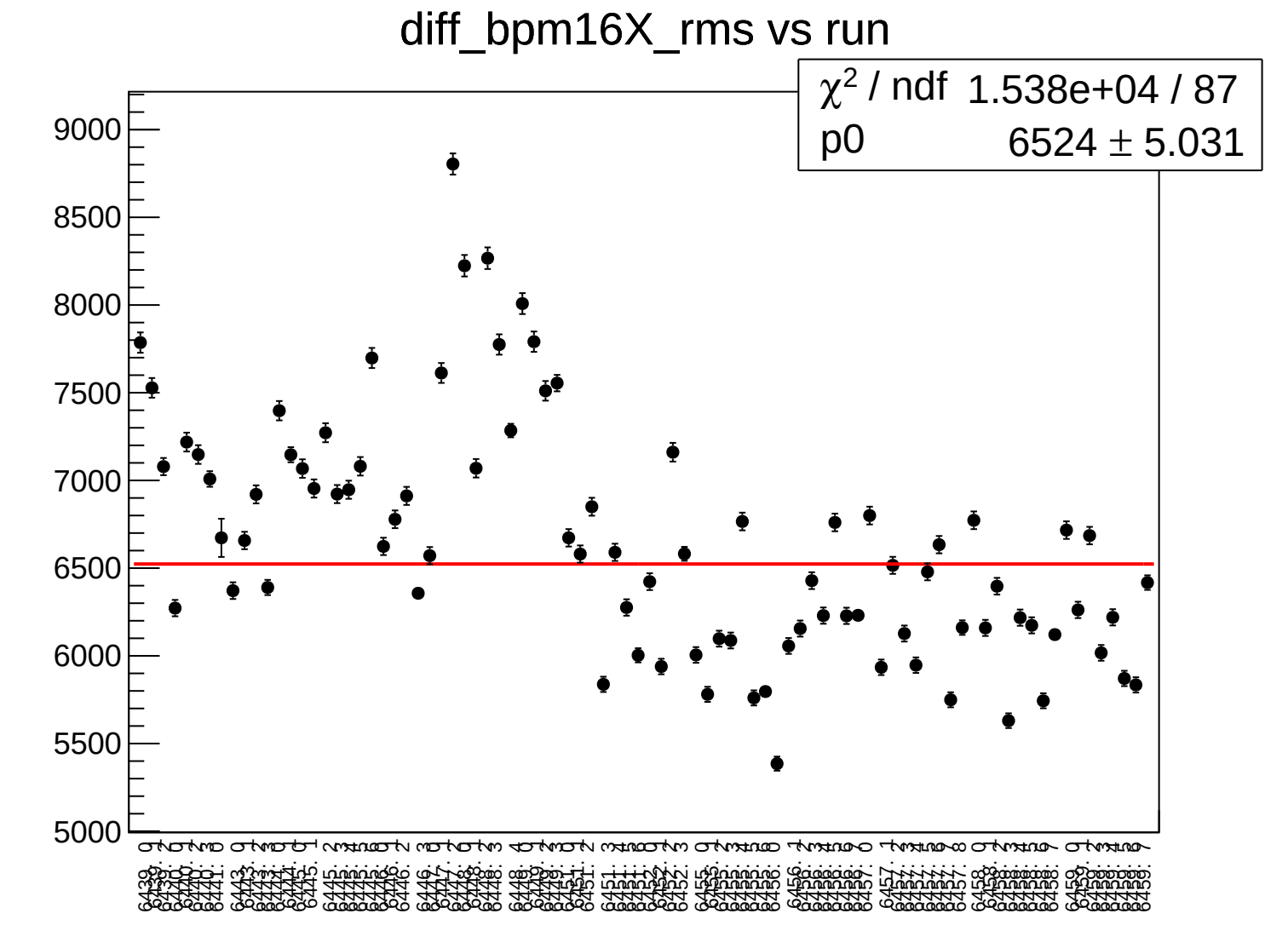

diff_bpm12Y_mean vs run
χ² / ndf 84.29 / 87
p0 −6.451 ± 3.355
100
50
0
−50
−100
pull
Entries 88
Mean 198.9
Std Dev 142.1
2
1
0
−1
−2

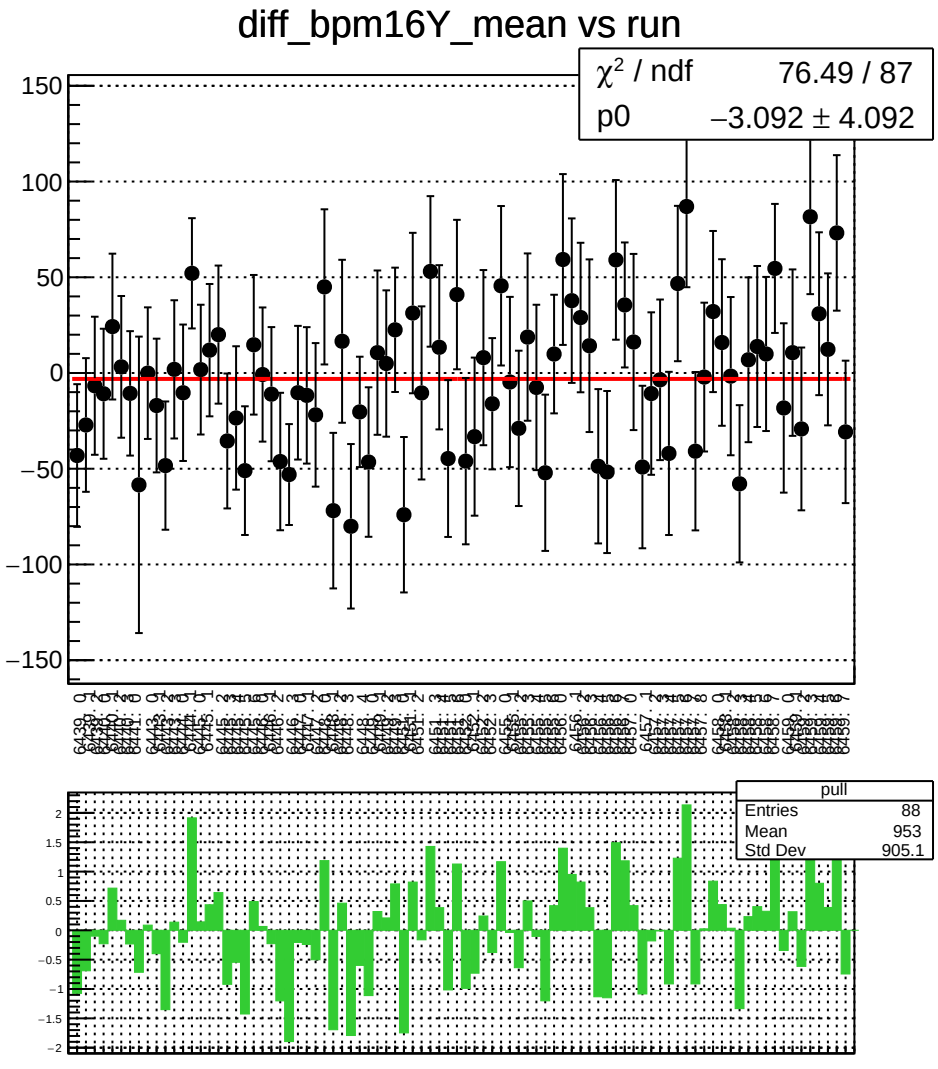

pull1D
Entries 88
Mean 0.00488
Std Dev 0.9787
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

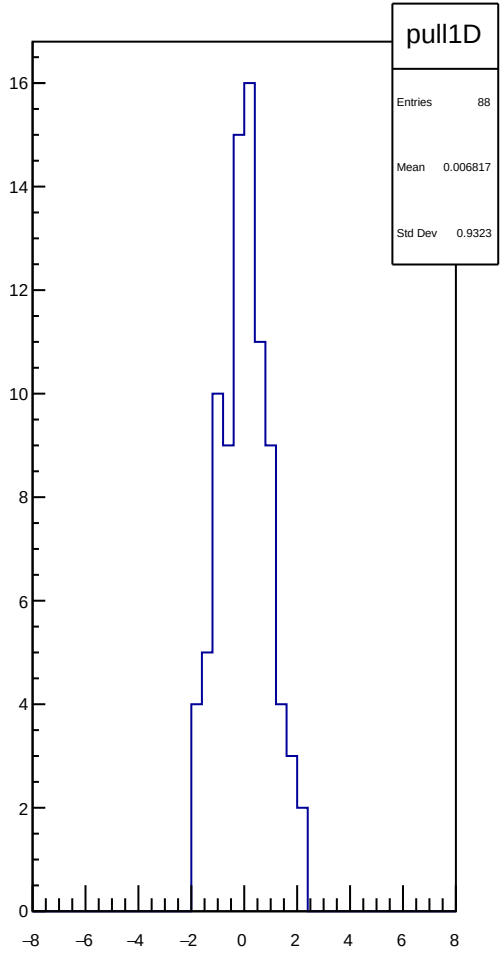

diff_bpm12Y_rms vs run
χ² / ndf 2.223e+04 / 87
p0 3070 ± 2.372
4500
4000
3500
3000
2500
2000

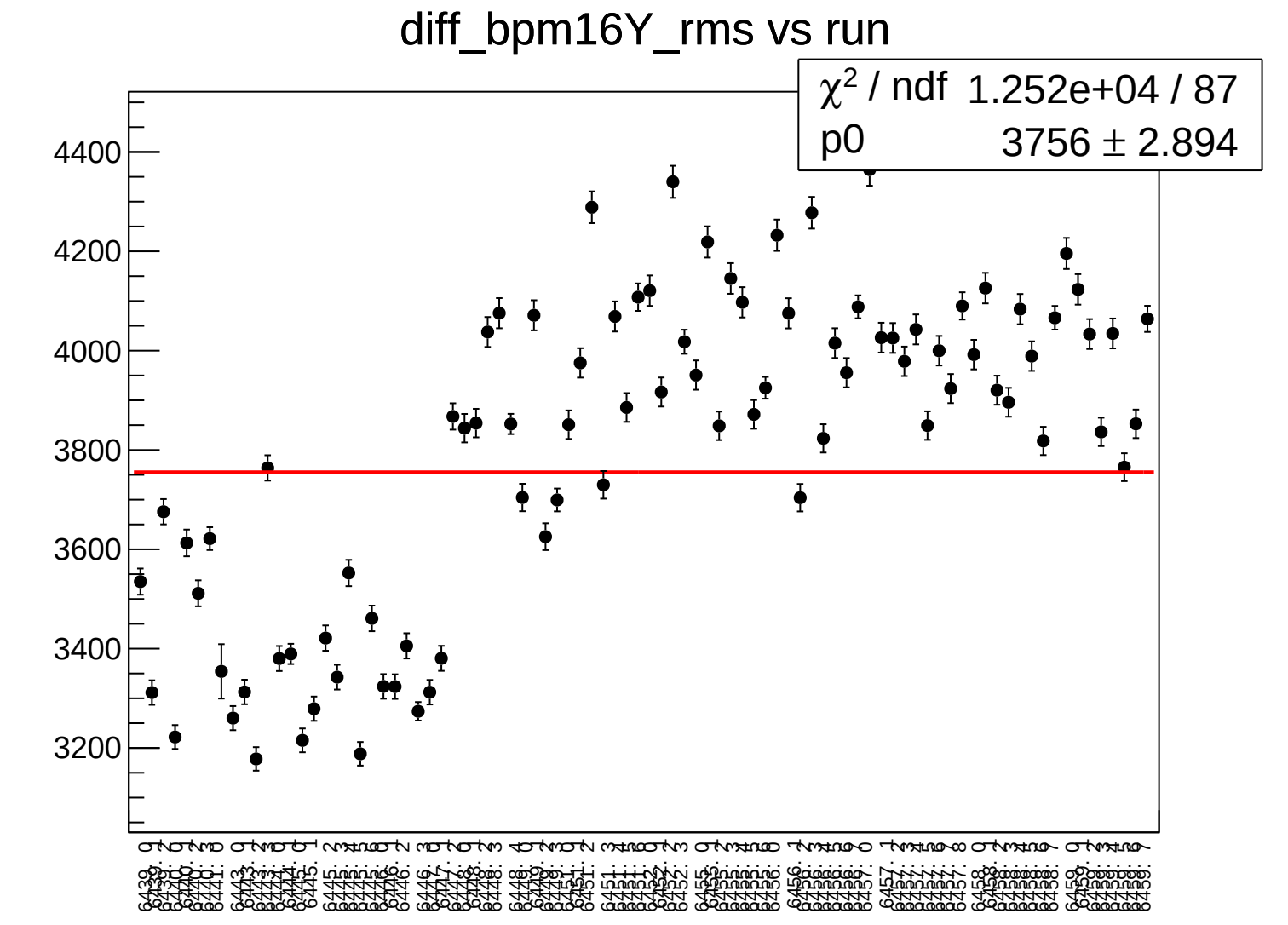

diff_bpm16X_mean vs run
χ^2 / ndf 70.42 / 87
p0 17.58 ± 7.115
200
100
0
−100
−200
pull
Entries 88
Mean 309.3
Std Dev 231.5
2
1
0
−1
−2

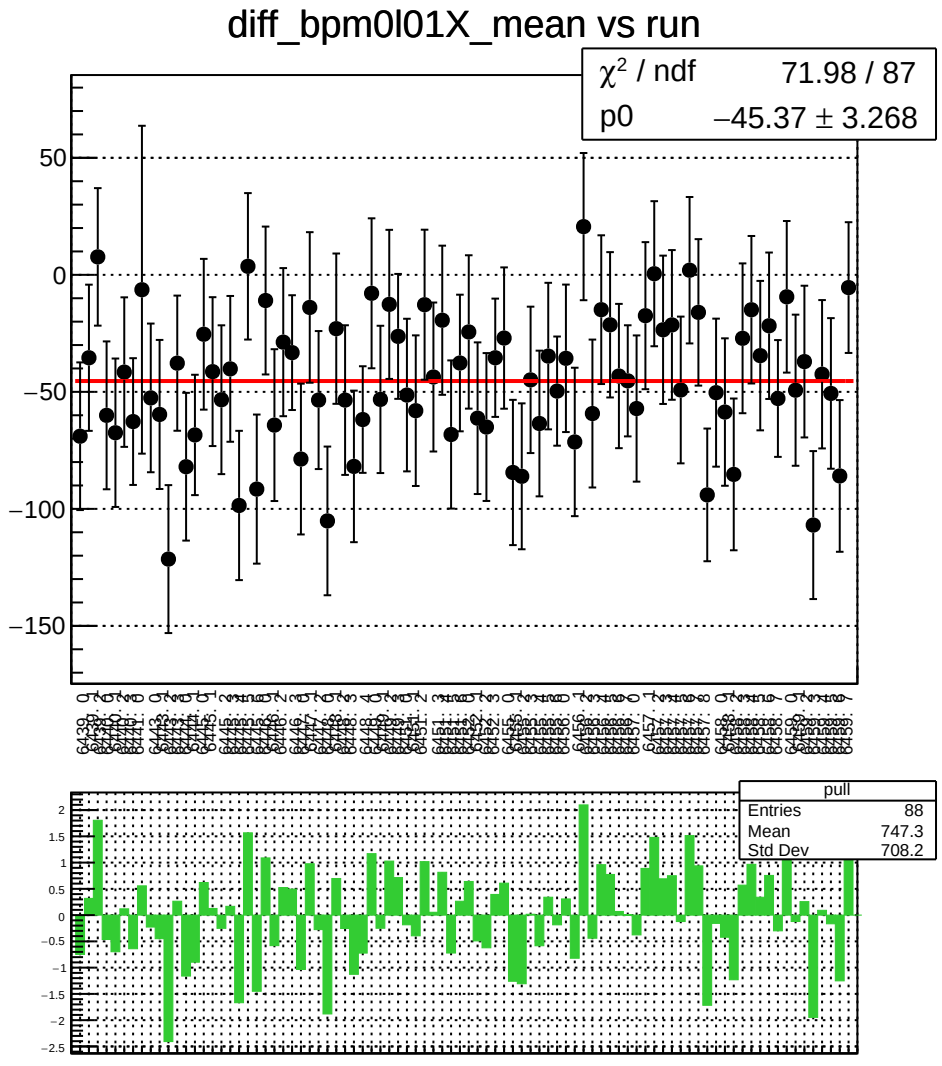

pull1D
Entries 88
Mean −0.005411
Std Dev 0.8945
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

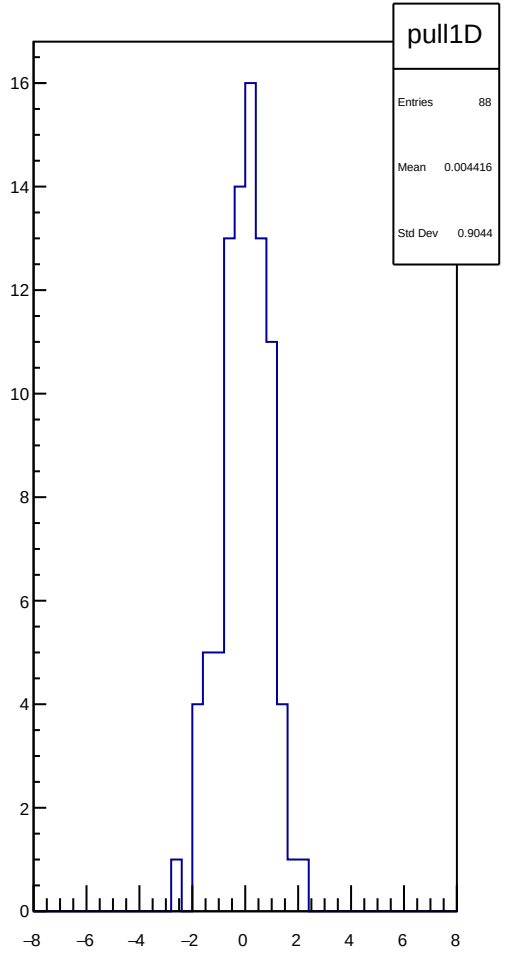

diff_bpm16X_rms vs run
χ^2 / ndf 1.538e+04 / 87
p0 6524 ± 5.031
9000
8500
8000
7500
7000
6500
6000
5500
5000

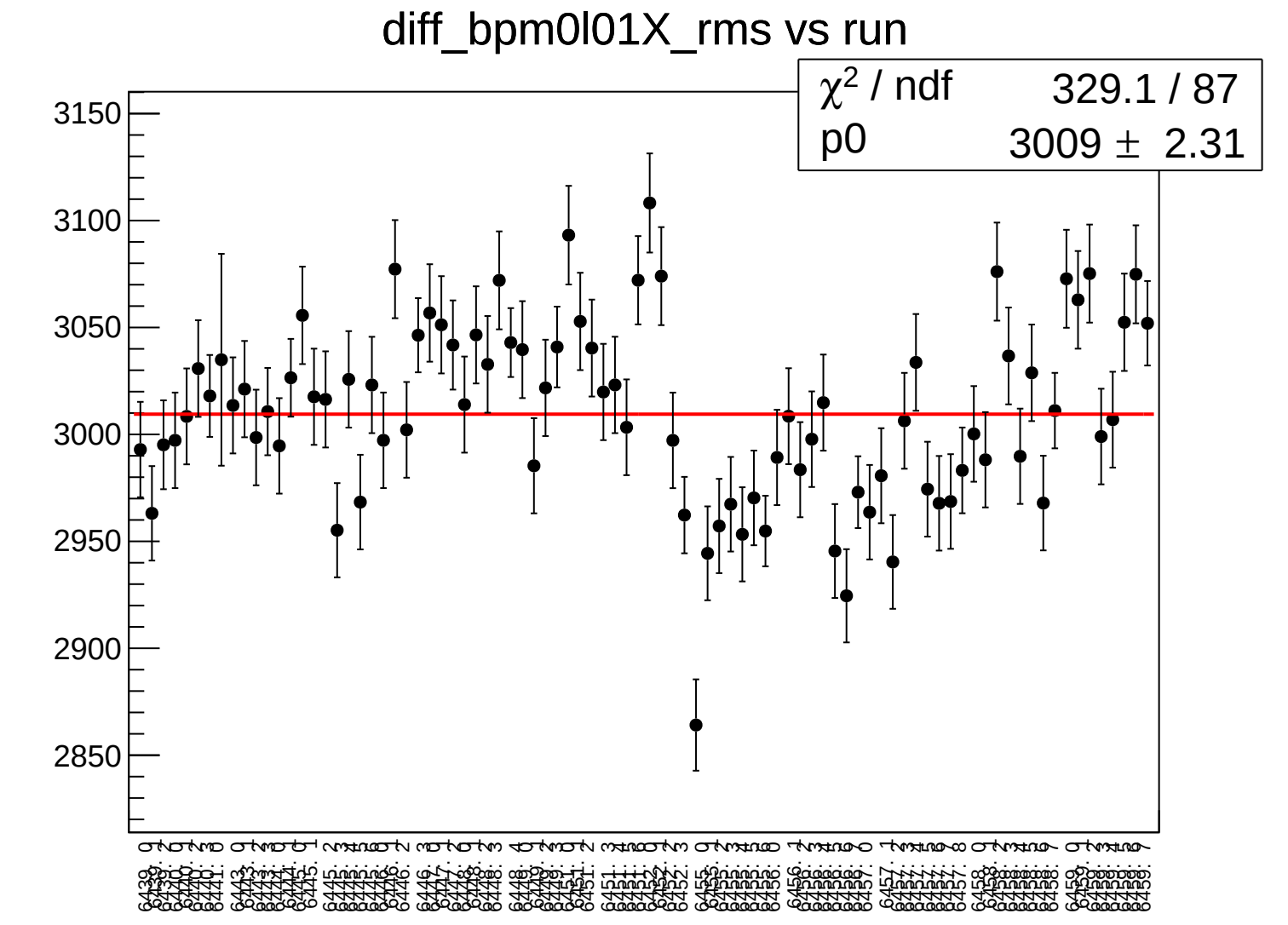

diff_bpm16Y_mean vs run
χ^2 / ndf 76.49 / 87
p0 −3.092 ± 4.092
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 953
Std Dev 905.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

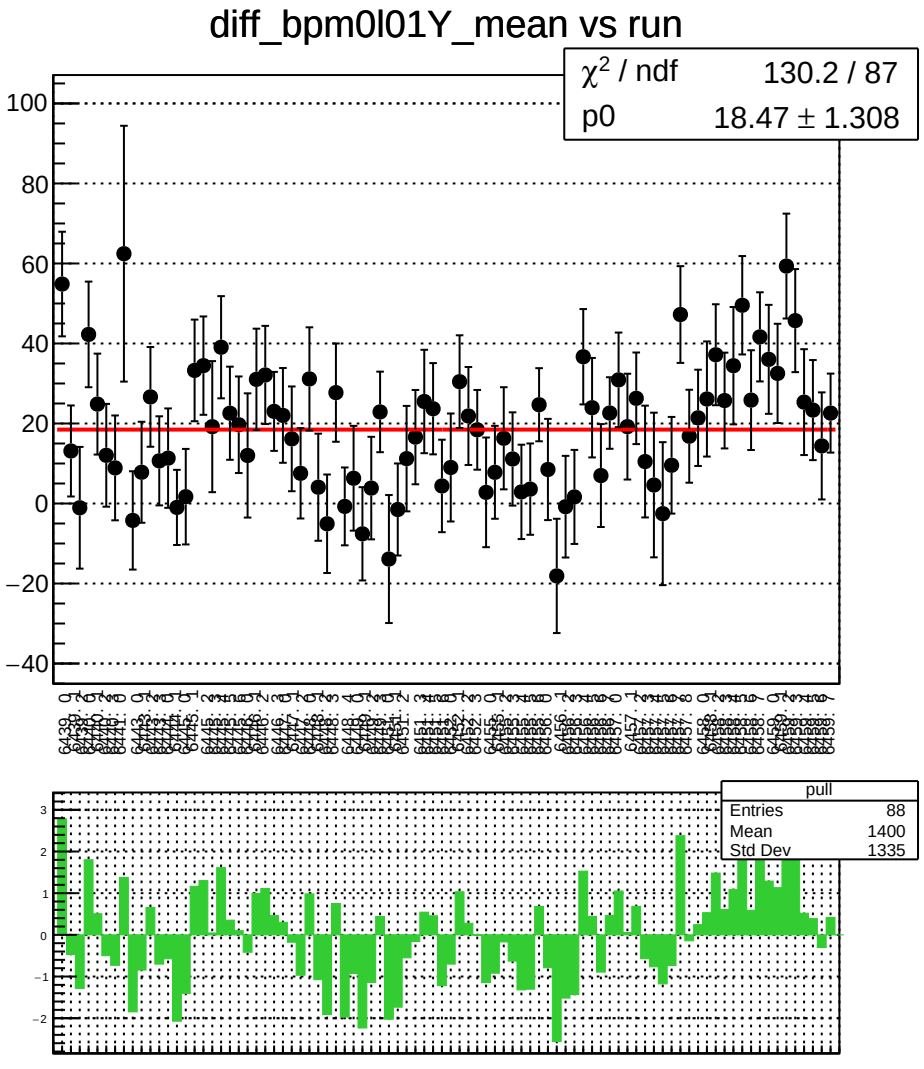

pull1D
Entries 88
Mean 0.006817
Std Dev 0.9323
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

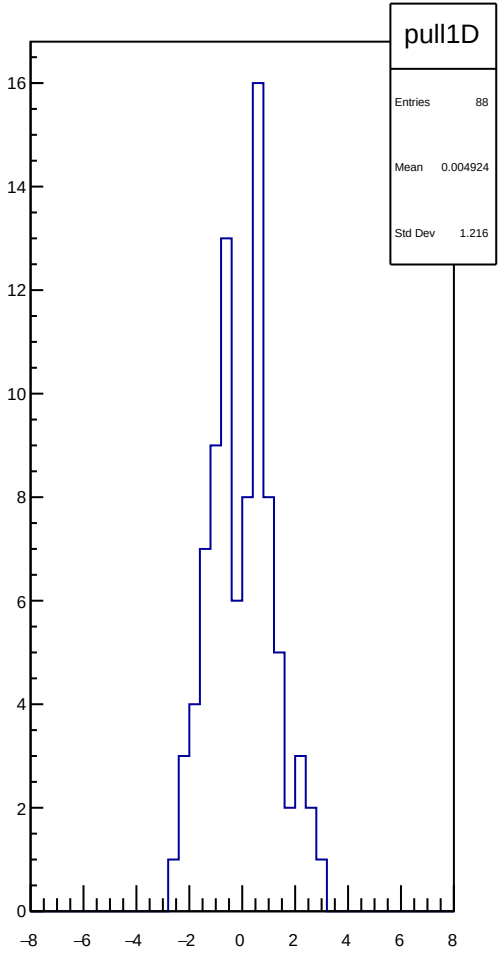

diff_bpm16Y_rms vs run
χ² / ndf 1.252e+04 / 87
p0 3756 ± 2.894
4400
4200
4000
3800
3600
3400
3200

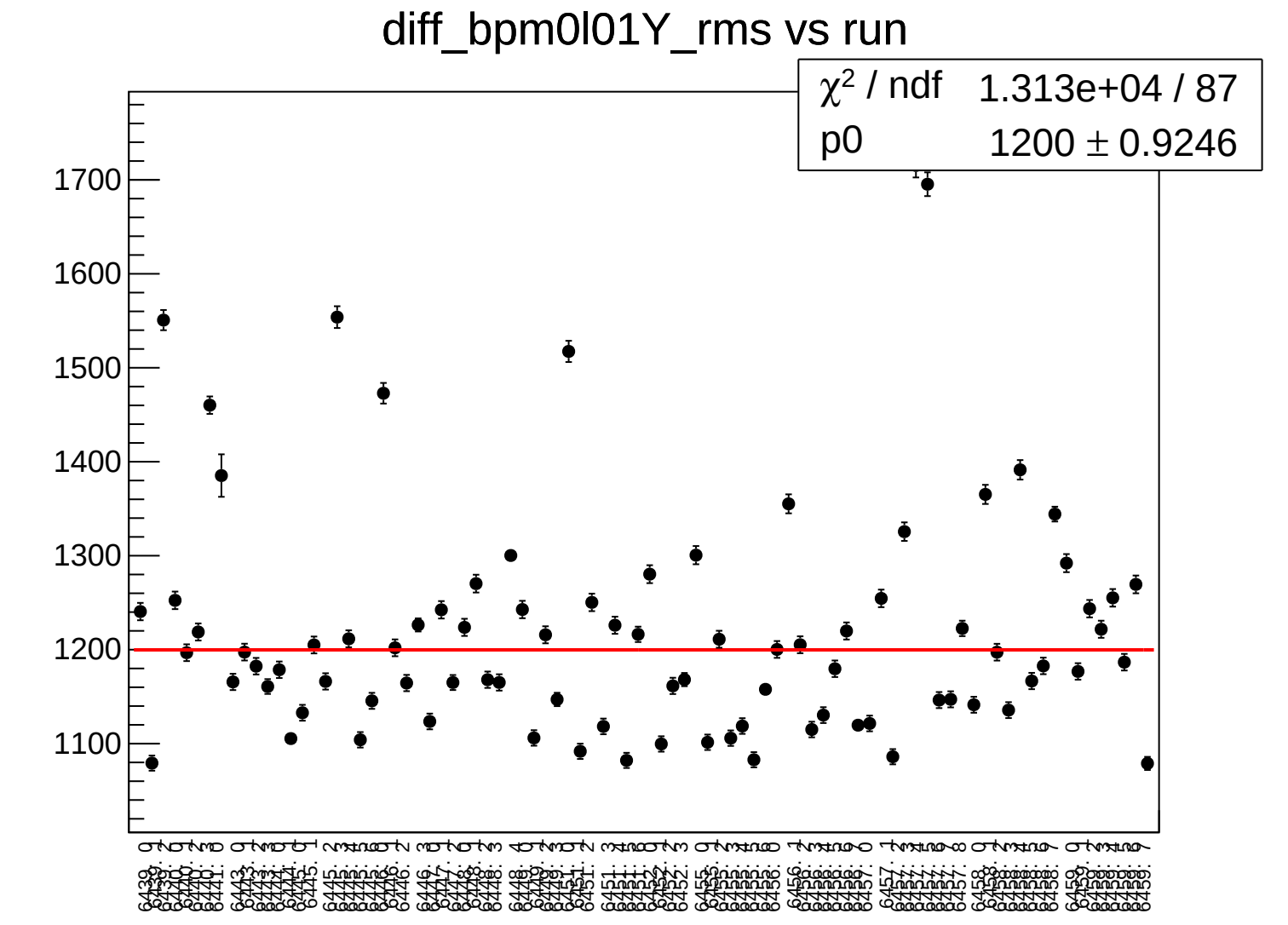

diff_bpm0l01X_mean vs run
χ^2 / ndf 71.98 / 87
p0 −45.37 ± 3.268
50
0
−50
−100
−150
pull
Entries 88
Mean 747.3
Std Dev 708.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

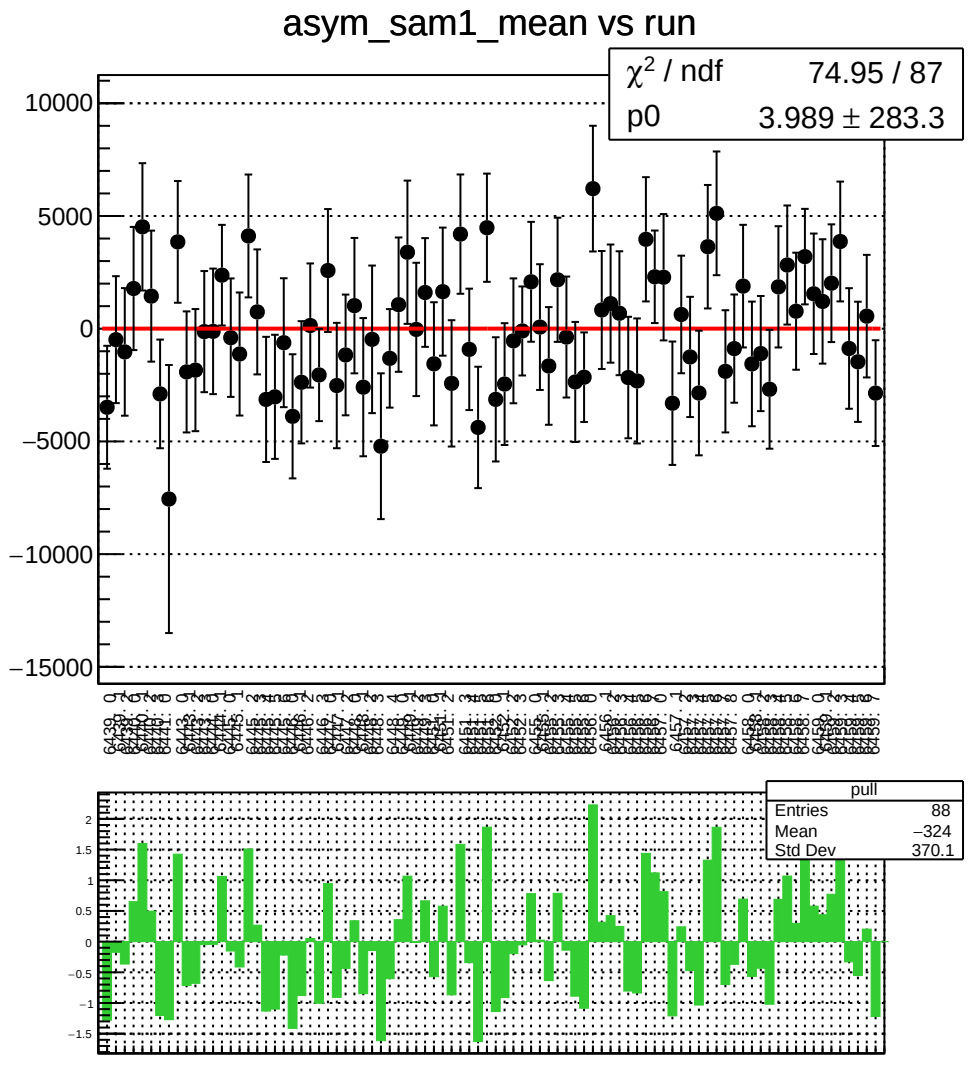

pull1D
Entries 88
Mean 0.004416
Std Dev 0.9044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

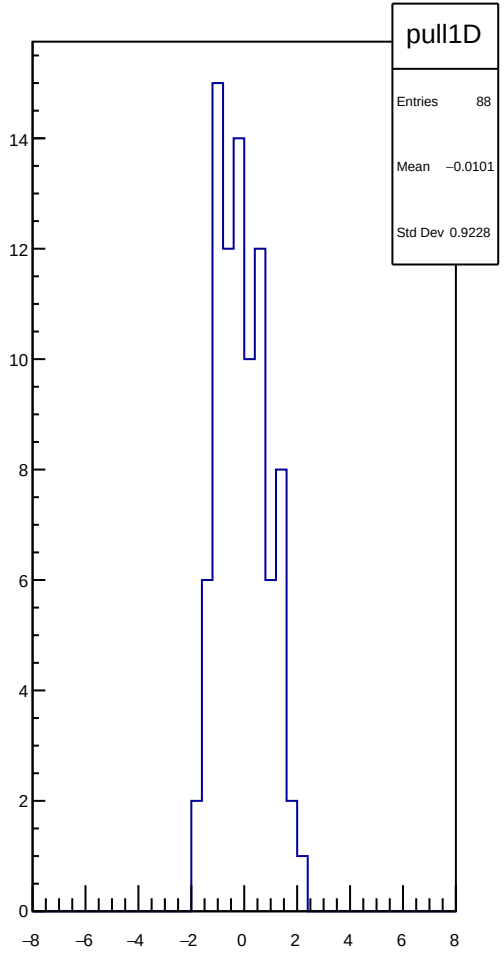

diff_bpm0l01X_rms vs run
χ² / ndf 329.1 / 87
p0 3009 ± 2.31
3150
3100
3050
3000
2950
2900
2850

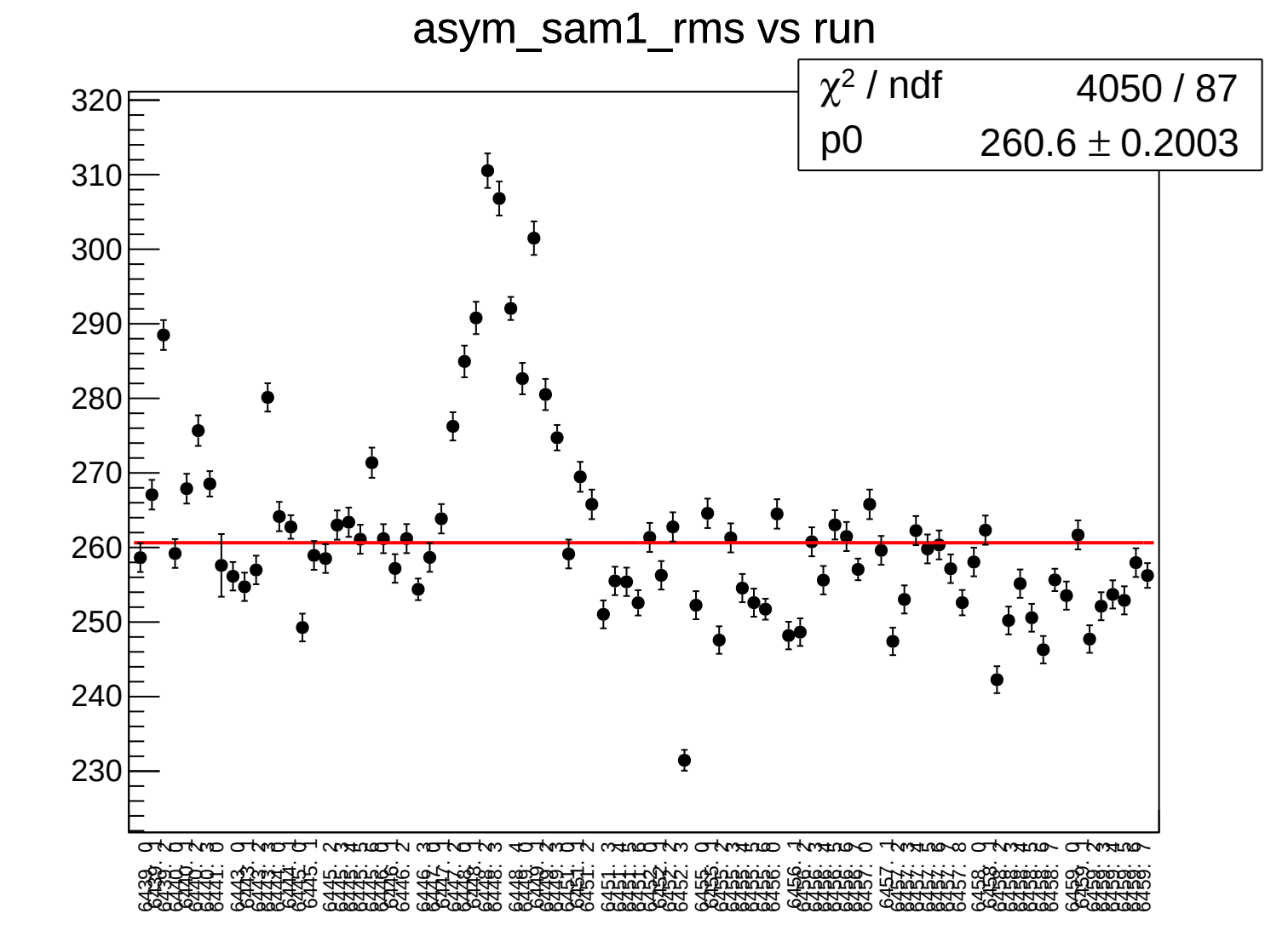

diff_bpm0l01Y_mean vs run
χ^2 / ndf 130.2 / 87
p0 18.47 ± 1.308
pull
Entries 88
Mean 1400
Std Dev 1335

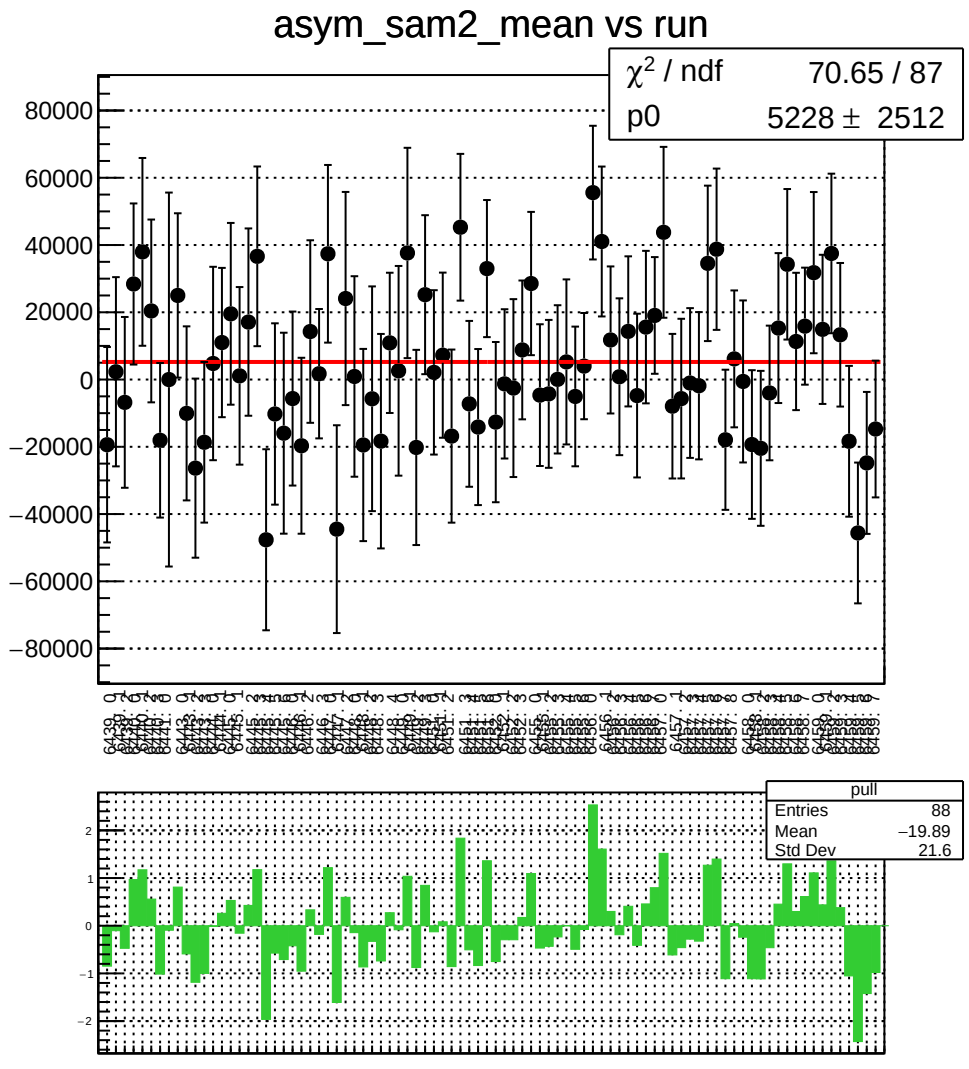

pull1D
Entries 88
Mean 0.004924
Std Dev 1.216

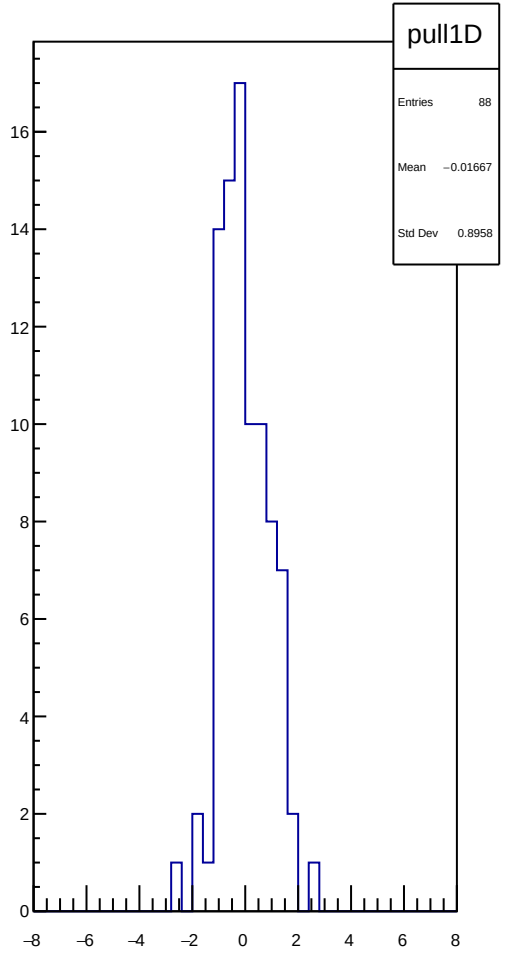

diff_bpm0l01Y_rms vs run
χ² / ndf 1.313e+04 / 87
p0 1200 ± 0.9246
1700
1600
1500
1400
1300
1200
1100

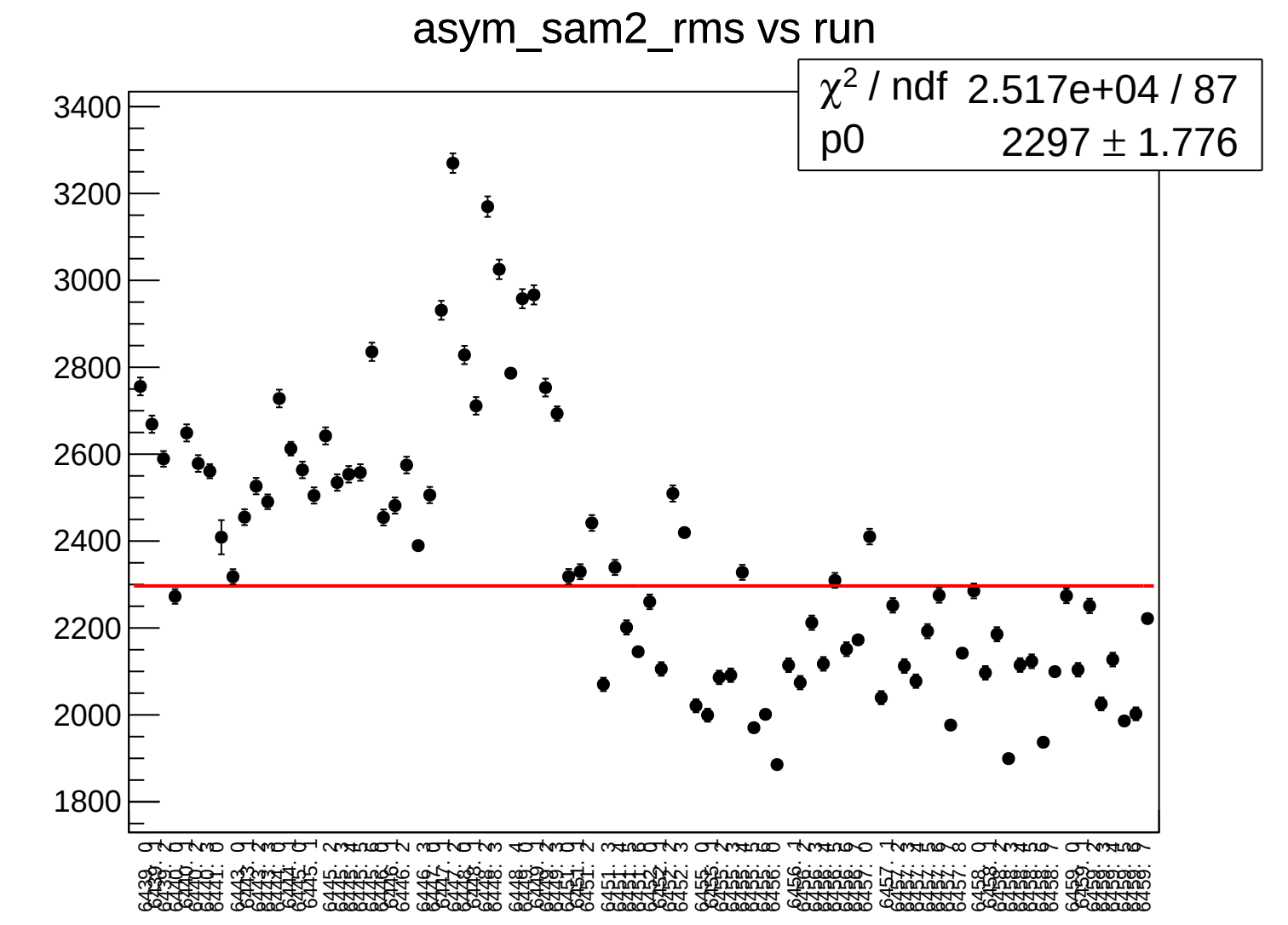

asym_sam1_mean vs run
χ^2 / ndf 74.95 / 87
p0 3.989 ± 283.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −324
Std Dev 370.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

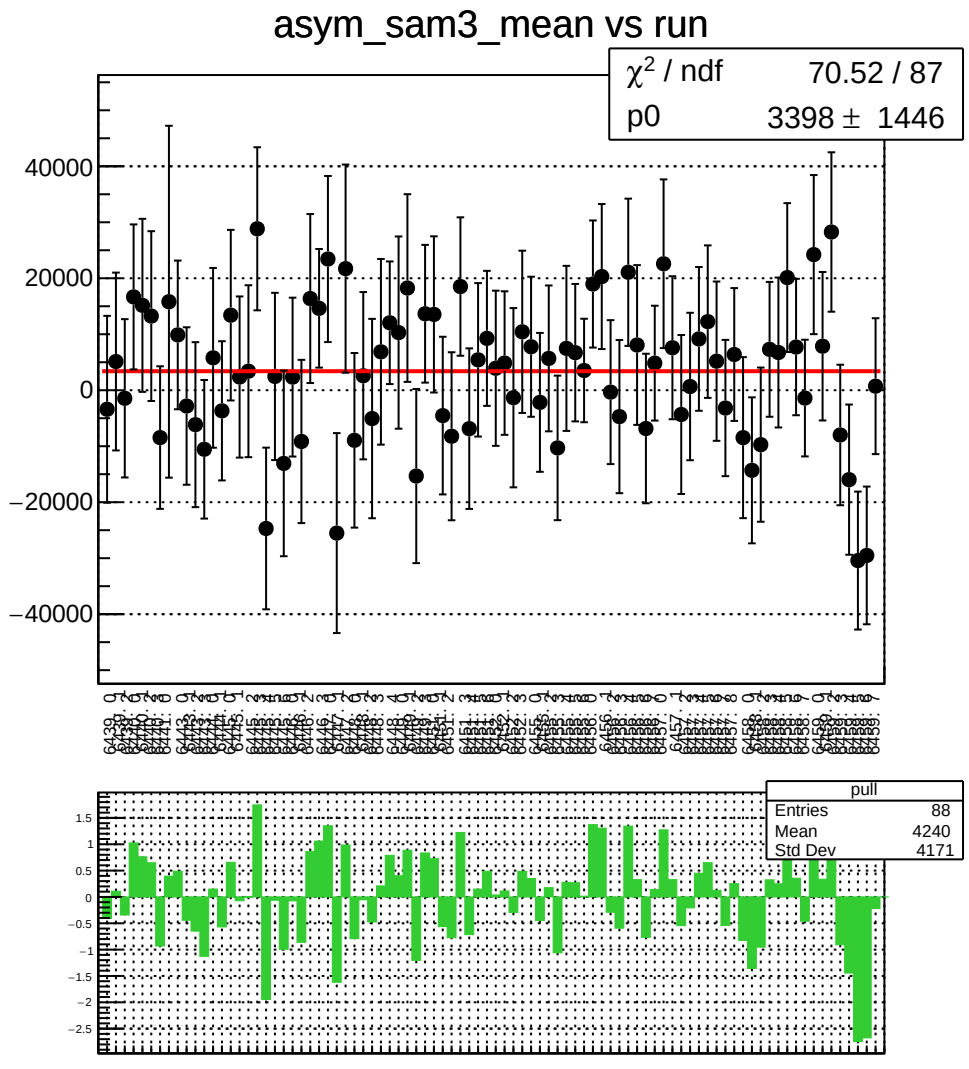

pull1D
Entries 88
Mean −0.0101
Std Dev 0.9228
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

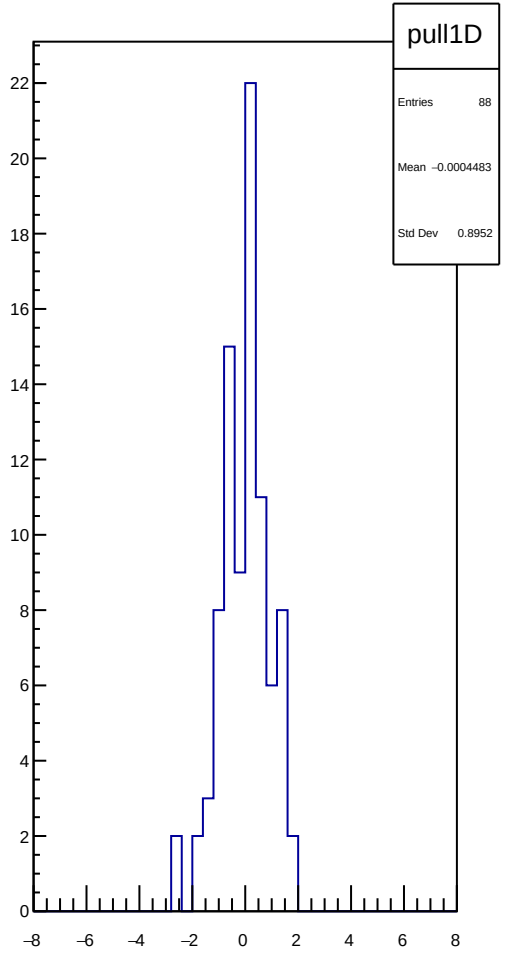

asym_sam1_rms vs run
χ² / ndf 4050 / 87
p0 260.6 ± 0.2003
320
310
300
290
280
270
260
250
240
230

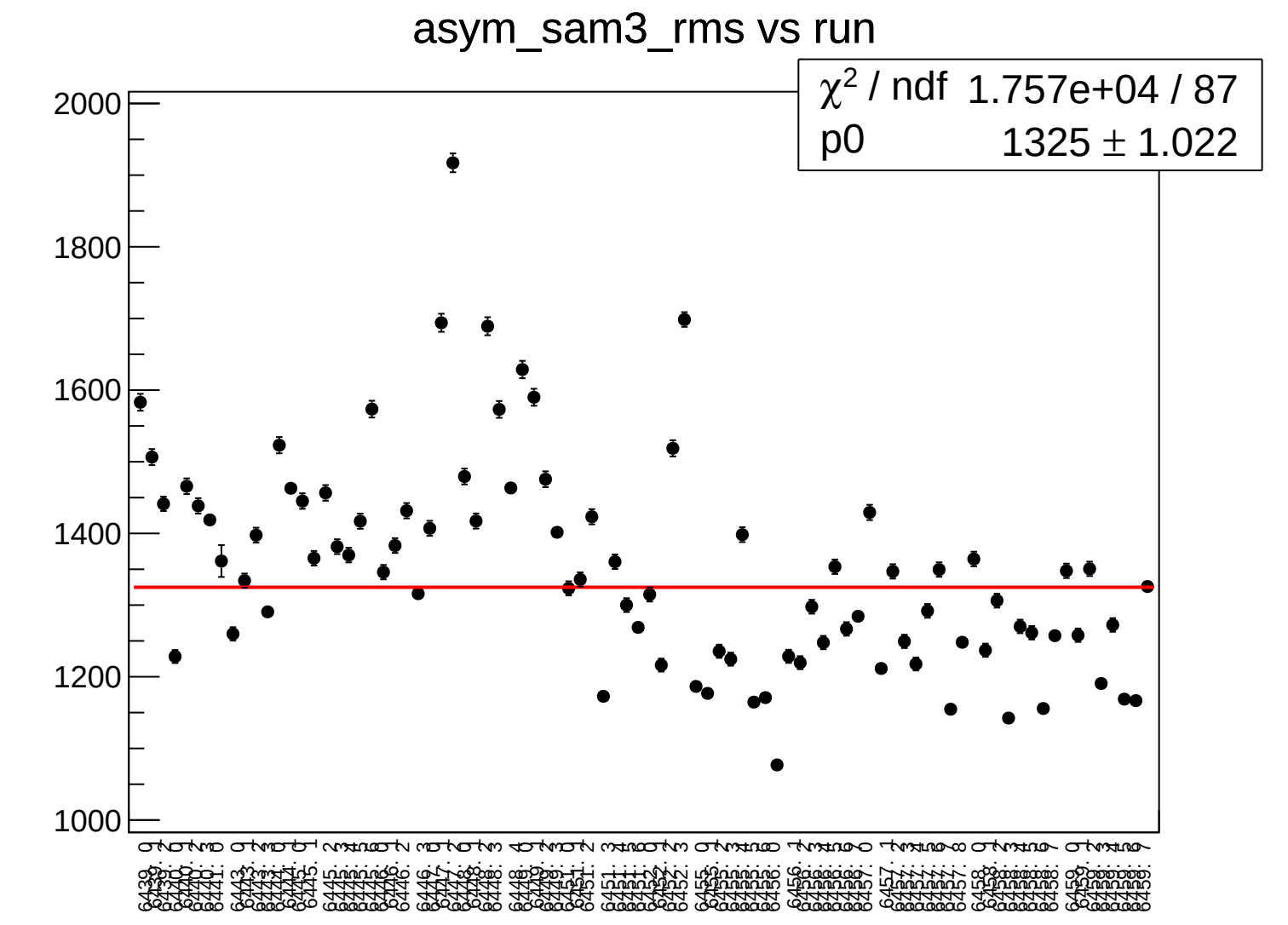

asym_sam2_mean vs run
χ² / ndf 70.65 / 87
p0 5228 ± 2512
pull
Entries 88
Mean −19.89
Std Dev 21.6

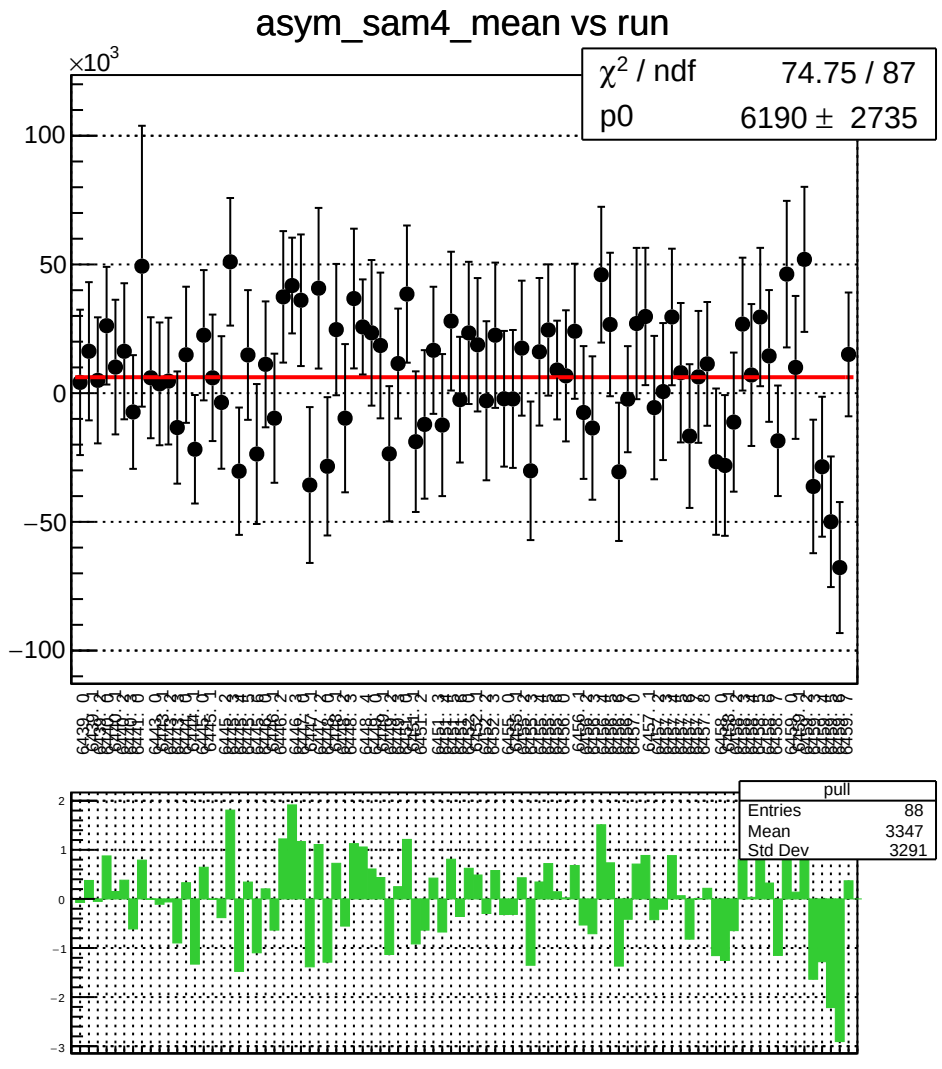

pull1D
Entries 88
Mean −0.01667
Std Dev 0.8958

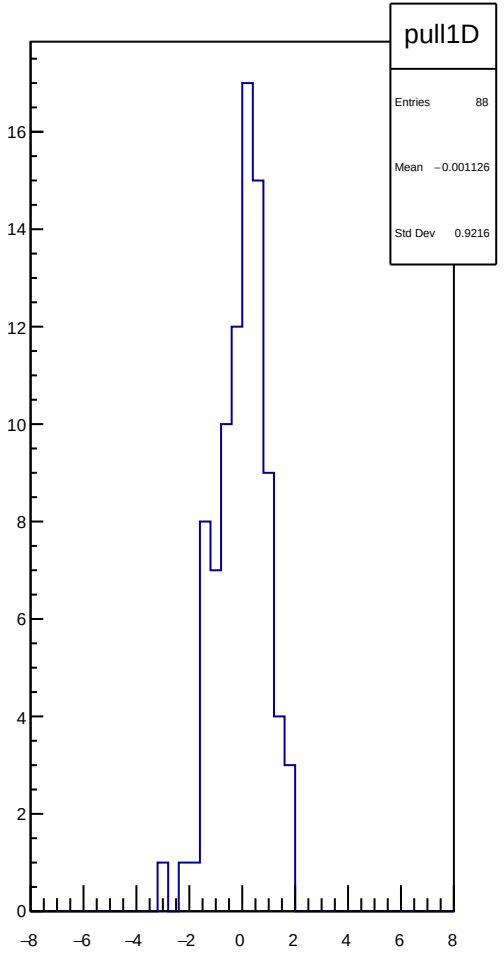

asym_sam2_rms vs run
χ² / ndf 2.517e+04 / 87
p0 2297 ± 1.776
3400
3200
3000
2800
2600
2400
2200
2000
1800

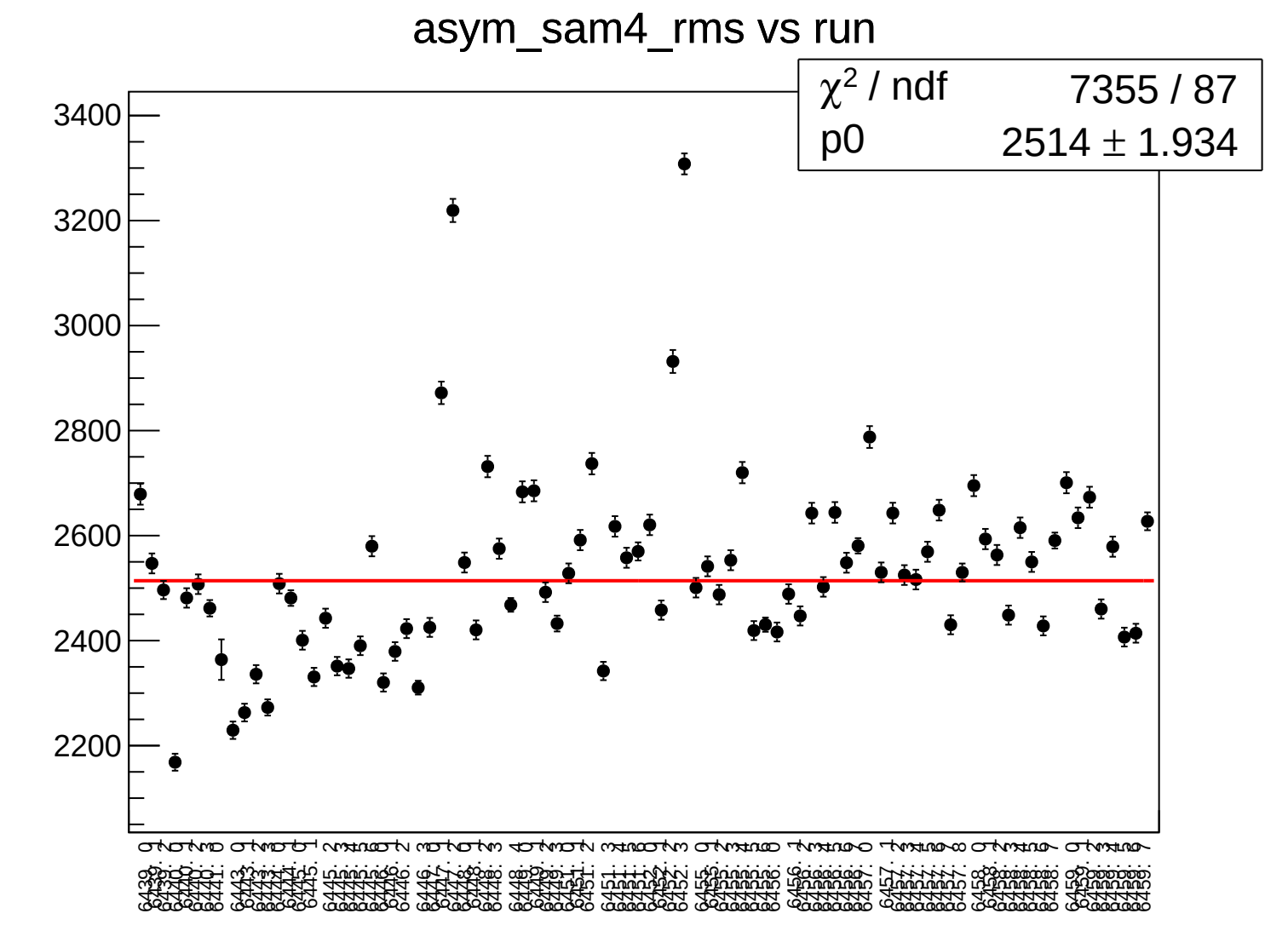

asym_sam3_mean vs run
χ² / ndf 70.52 / 87
p0 3398 ± 1446
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 4240
Std Dev 4171
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

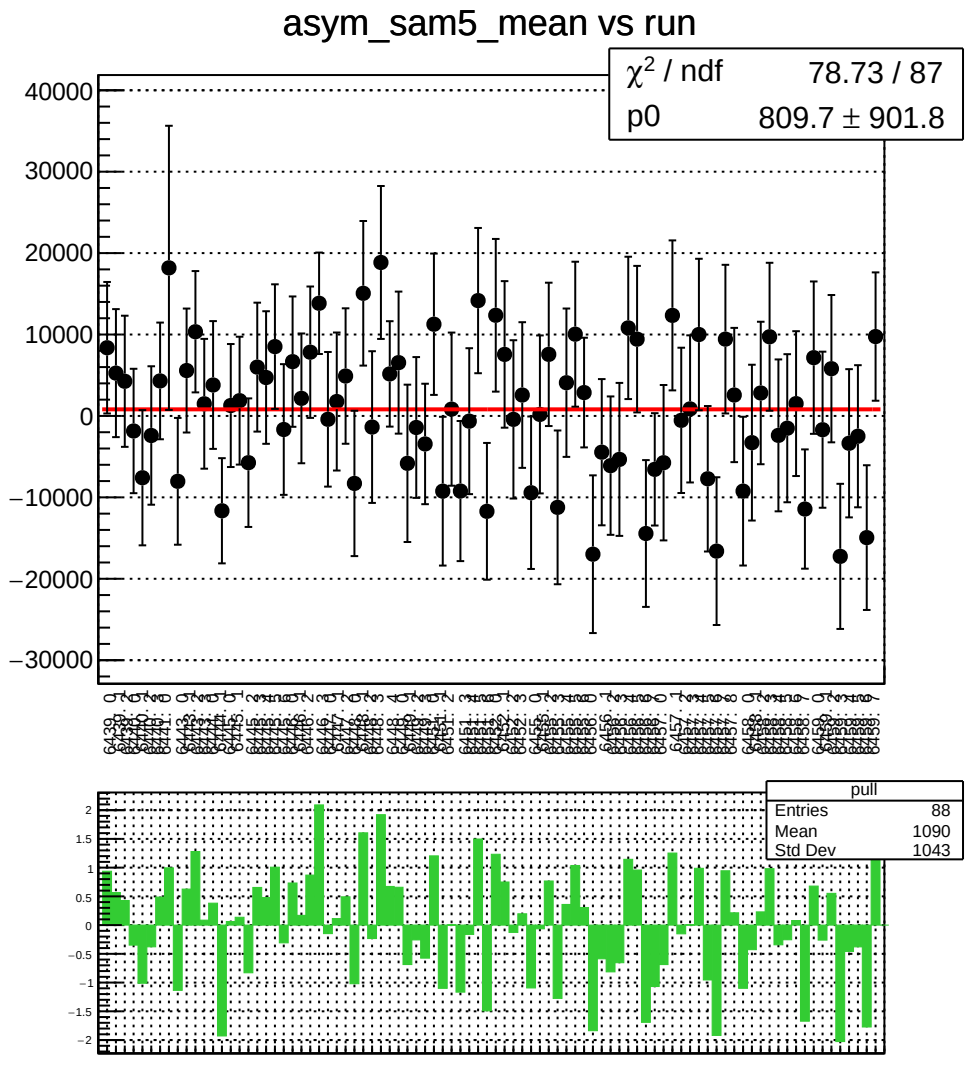

pull1D
Entries 88
Mean −0.0004483
Std Dev 0.8952
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

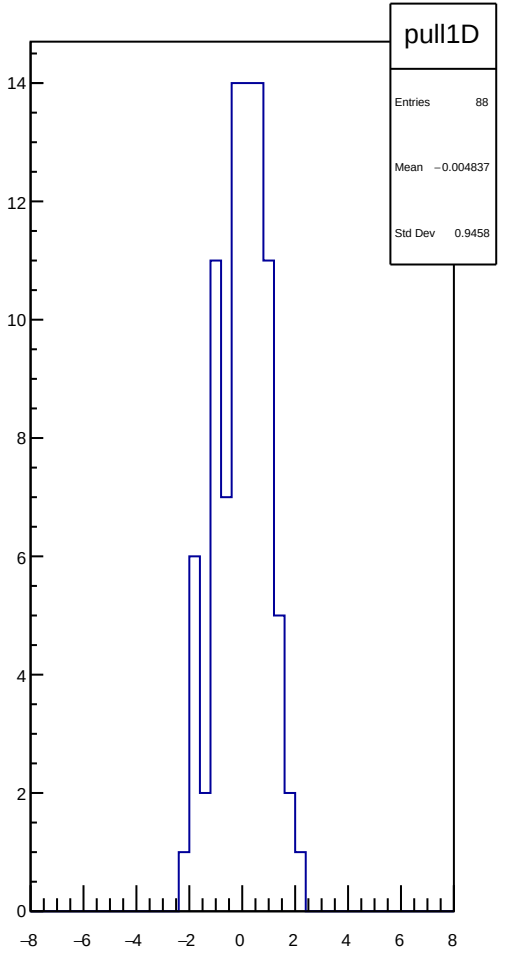

asym_sam3_rms vs run
χ^2 / ndf 1.757e+04 / 87
p0 1325 ± 1.022
2000
1800
1600
1400
1200
1000

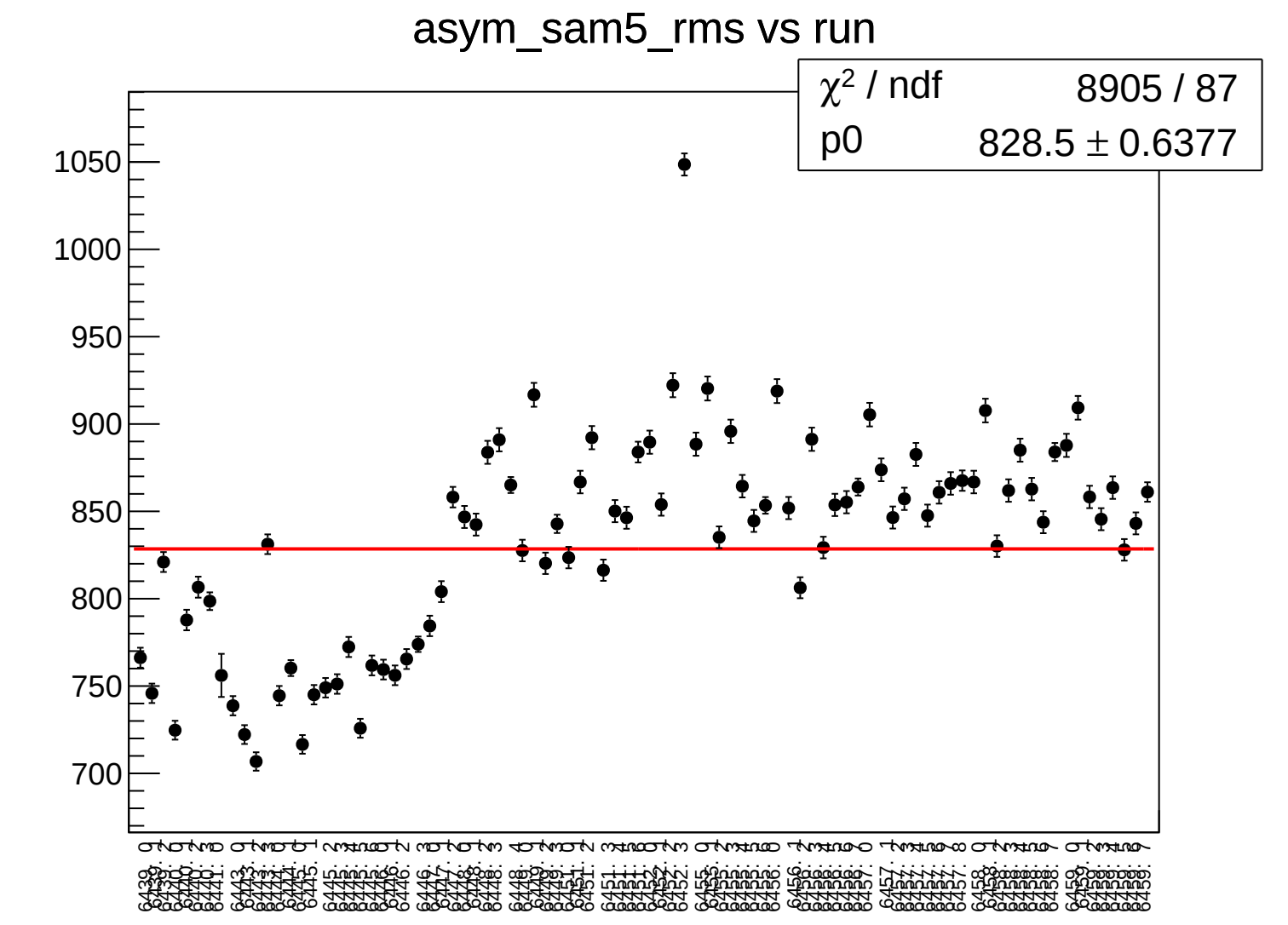

asym_sam4_mean vs run
×10^3
χ^2 / ndf 74.75 / 87
p0 6190 ± 2735
100
50
0
−50
−100
pull
Entries 88
Mean 3347
Std Dev 3291
2
1
0
−1
−2
−3

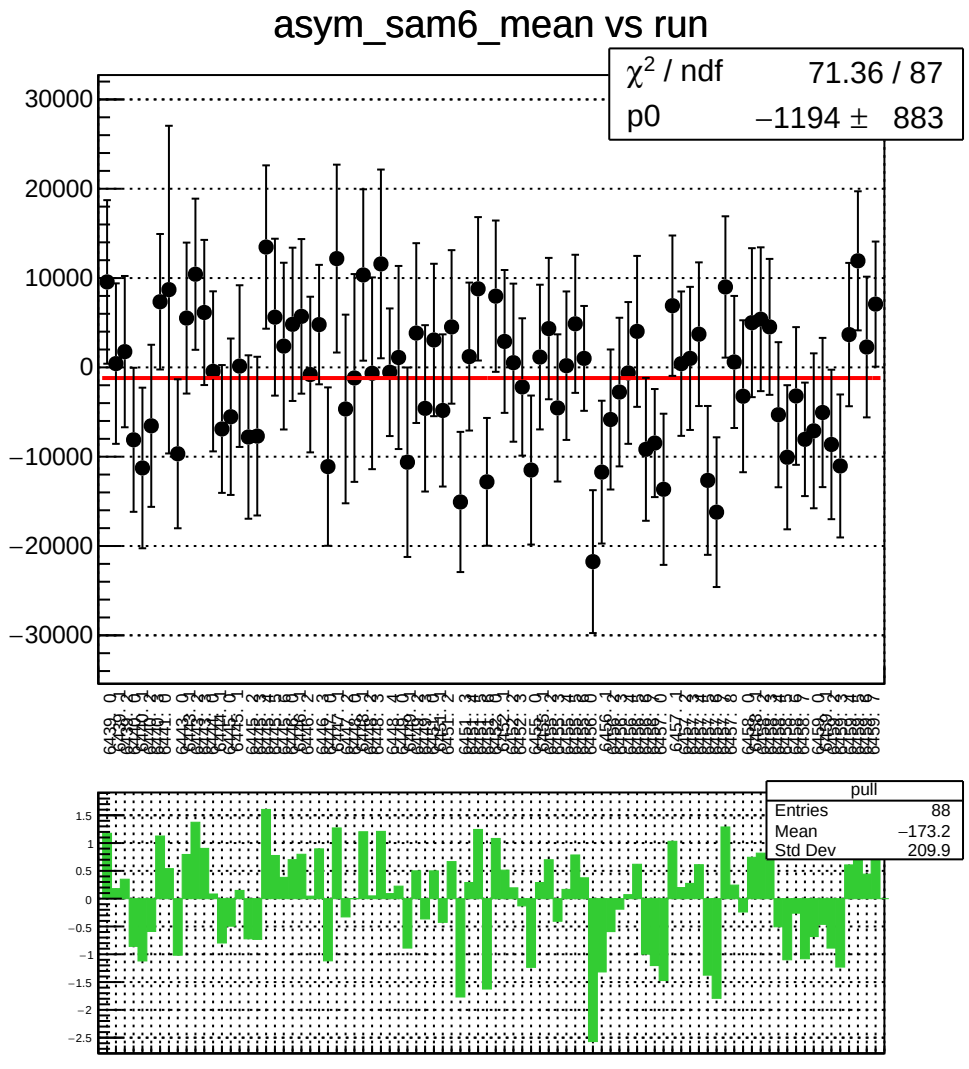

pull1D
Entries 88
Mean −0.001126
Std Dev 0.9216
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

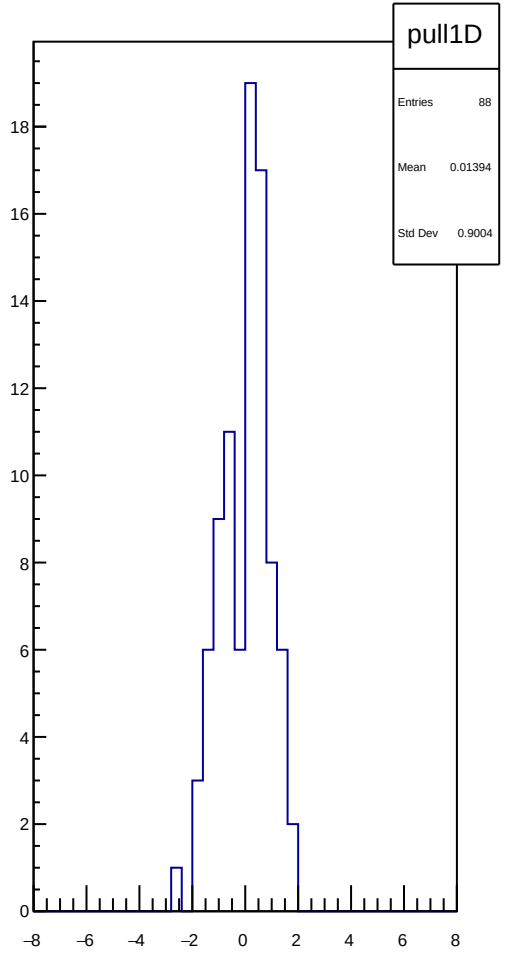

asym_sam4_rms vs run
χ^2 / ndf 7355 / 87
p0 2514 ± 1.934
3400
3200
3000
2800
2600
2400
2200

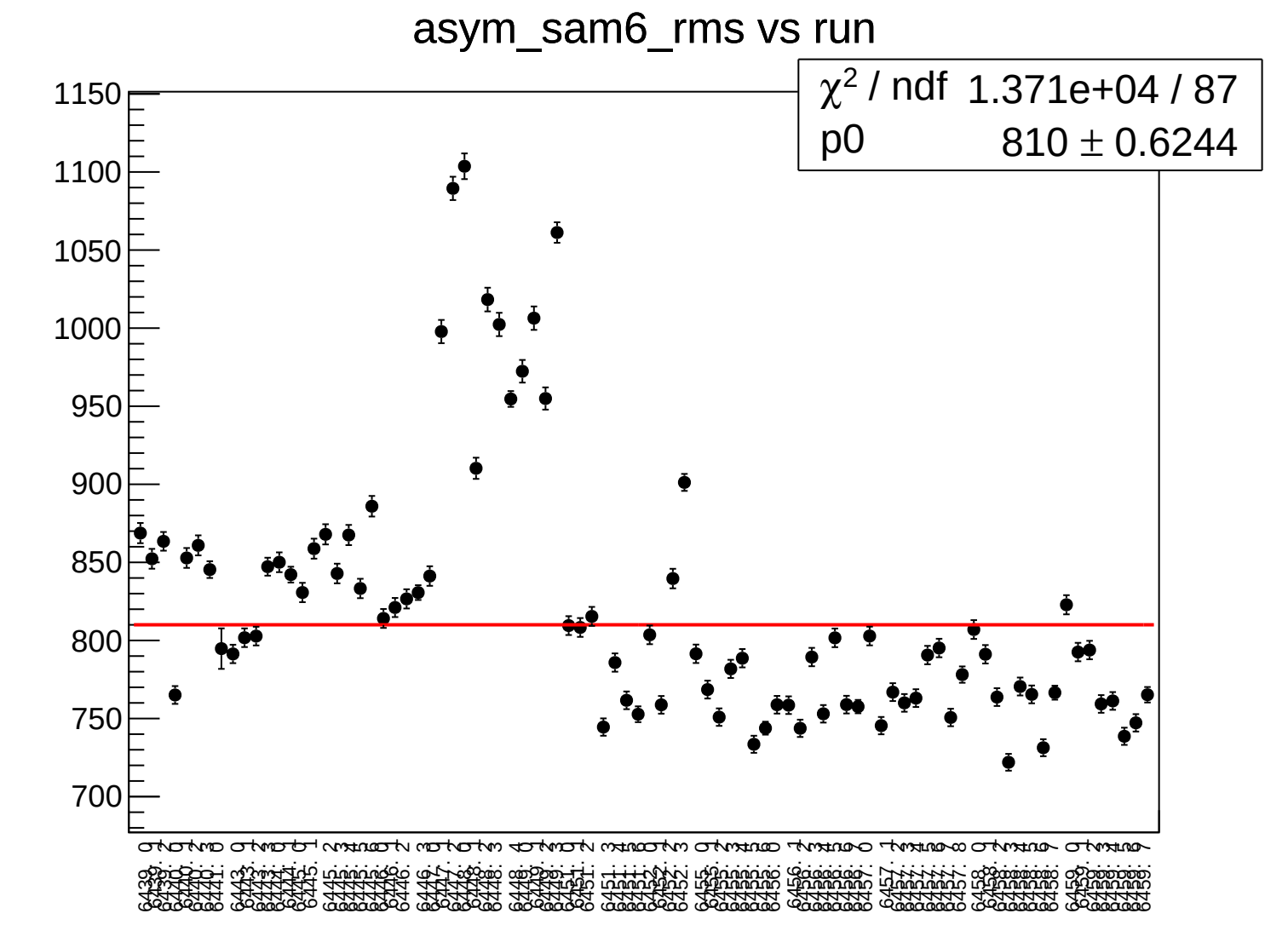

asym_sam5_mean vs run
χ² / ndf 78.73 / 87
p0 809.7 ± 901.8
pull
Entries 88
Mean 1090
Std Dev 1043

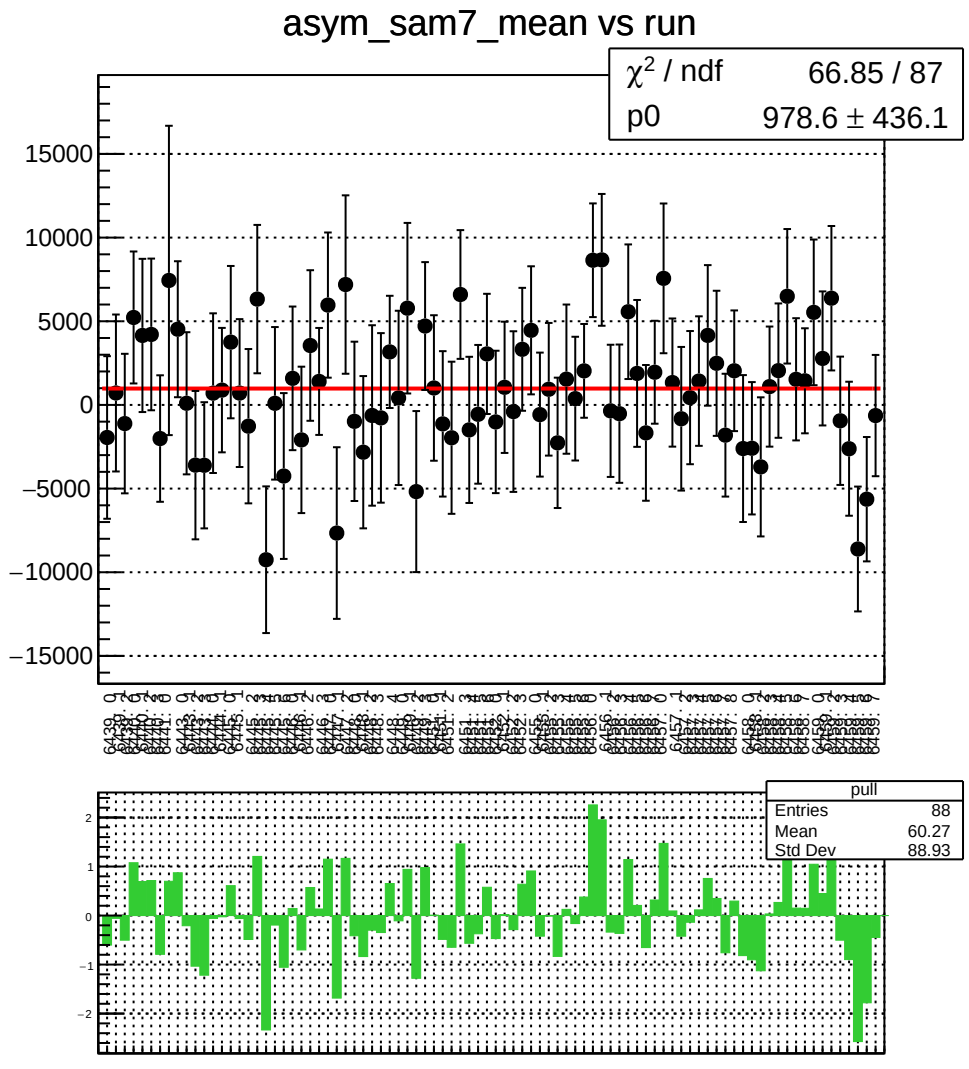

pull1D
Entries 88
Mean −0.004837
Std Dev 0.9458

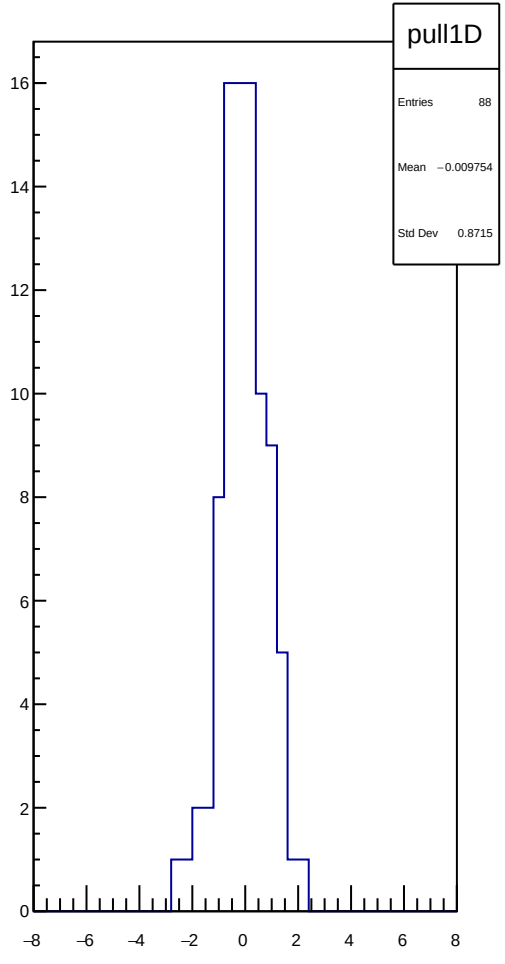

asym_sam5_rms vs run
χ² / ndf 8905 / 87
p0 828.5 ± 0.6377
1050
1000
950
900
850
800
750
700

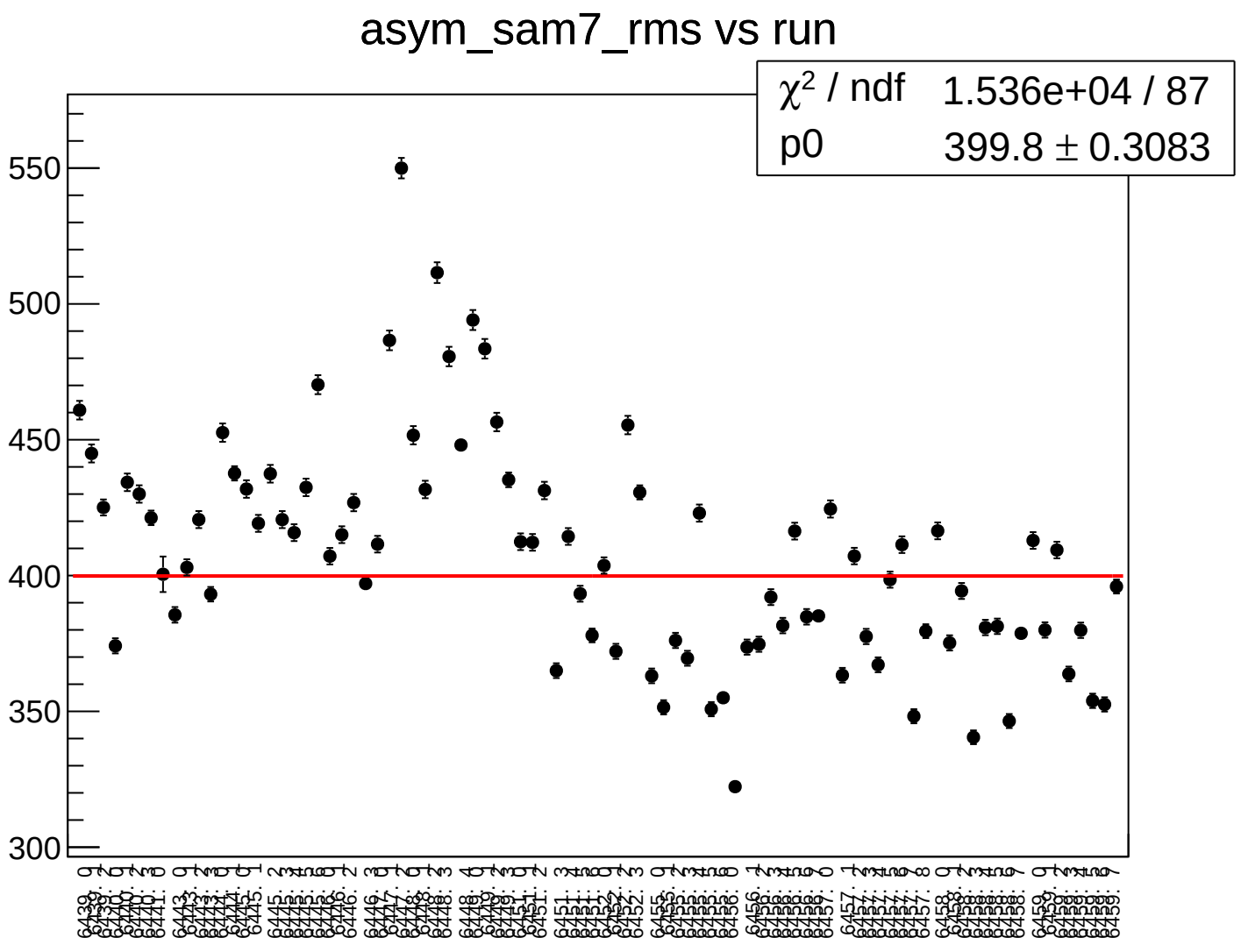

asym_sam6_mean vs run
χ² / ndf 71.36 / 87
p0 −1194 ± 883
pull
Entries 88
Mean −173.2
Std Dev 209.9

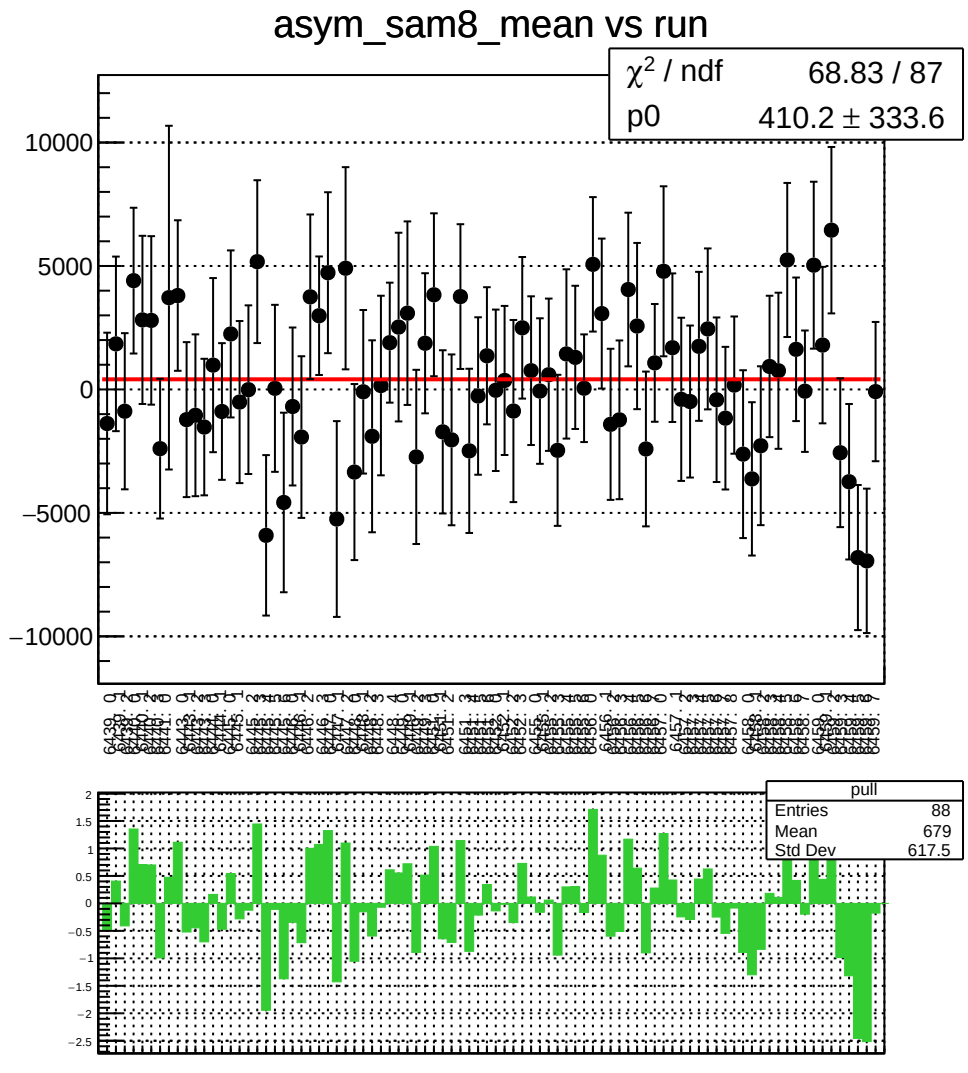

pull1D
Entries 88
Mean 0.01394
Std Dev 0.9004

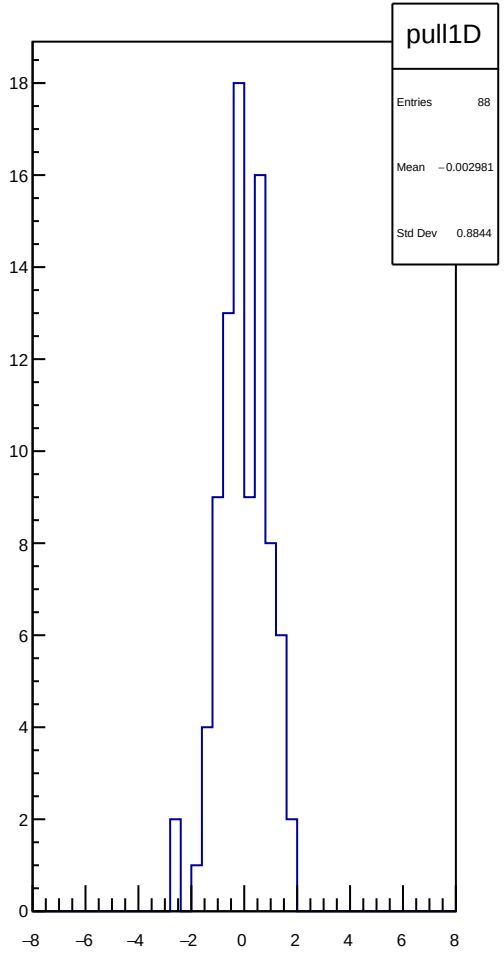

asym_sam6_rms vs run
χ² / ndf 1.371e+04 / 87
p0 810 ± 0.6244
1150
1100
1050
1000
950
900
850
800
750
700

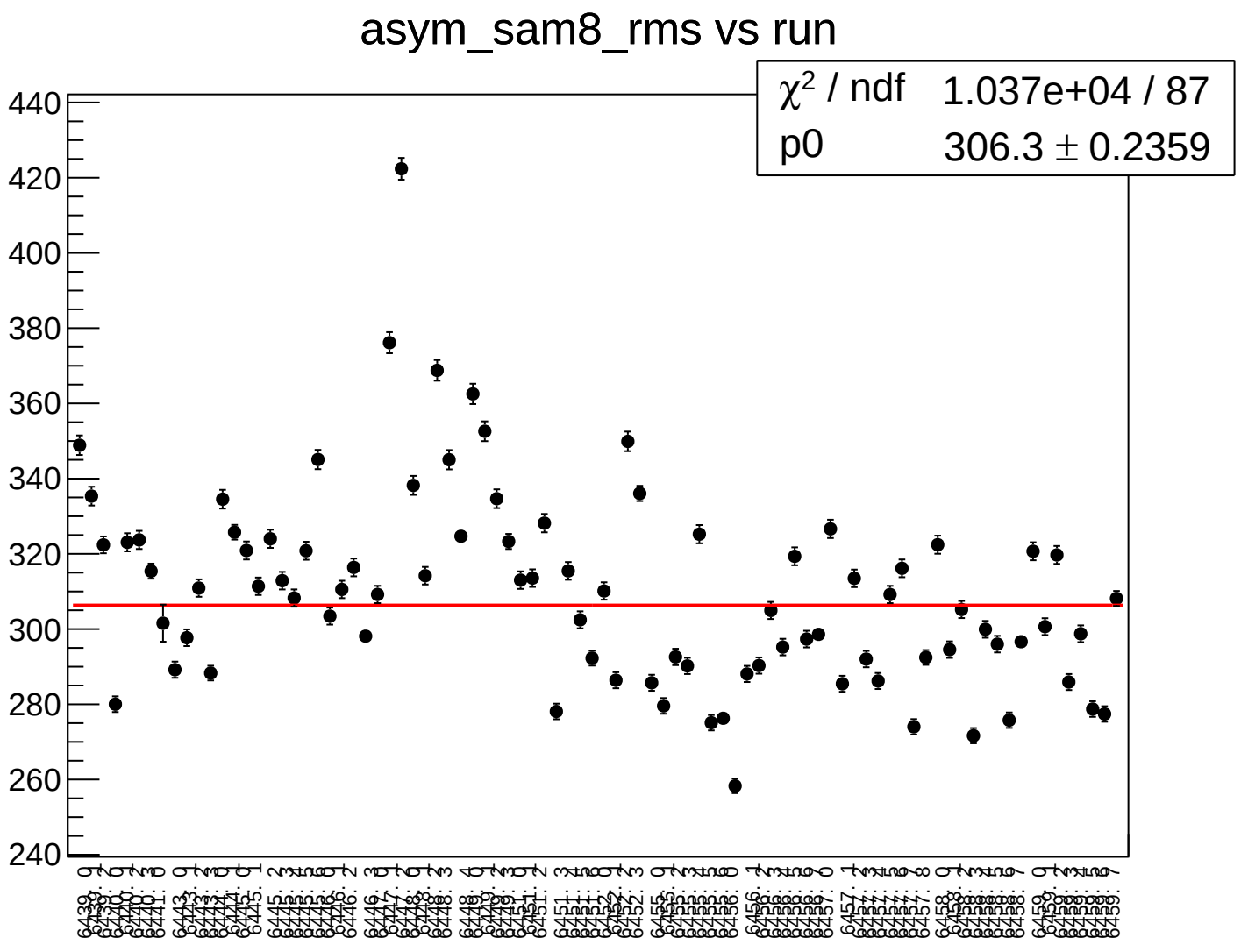

asym_sam7_mean vs run
χ² / ndf 66.85 / 87
p0 978.6 ± 436.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 60.27
Std Dev 88.93
2
1
0
−1
−2

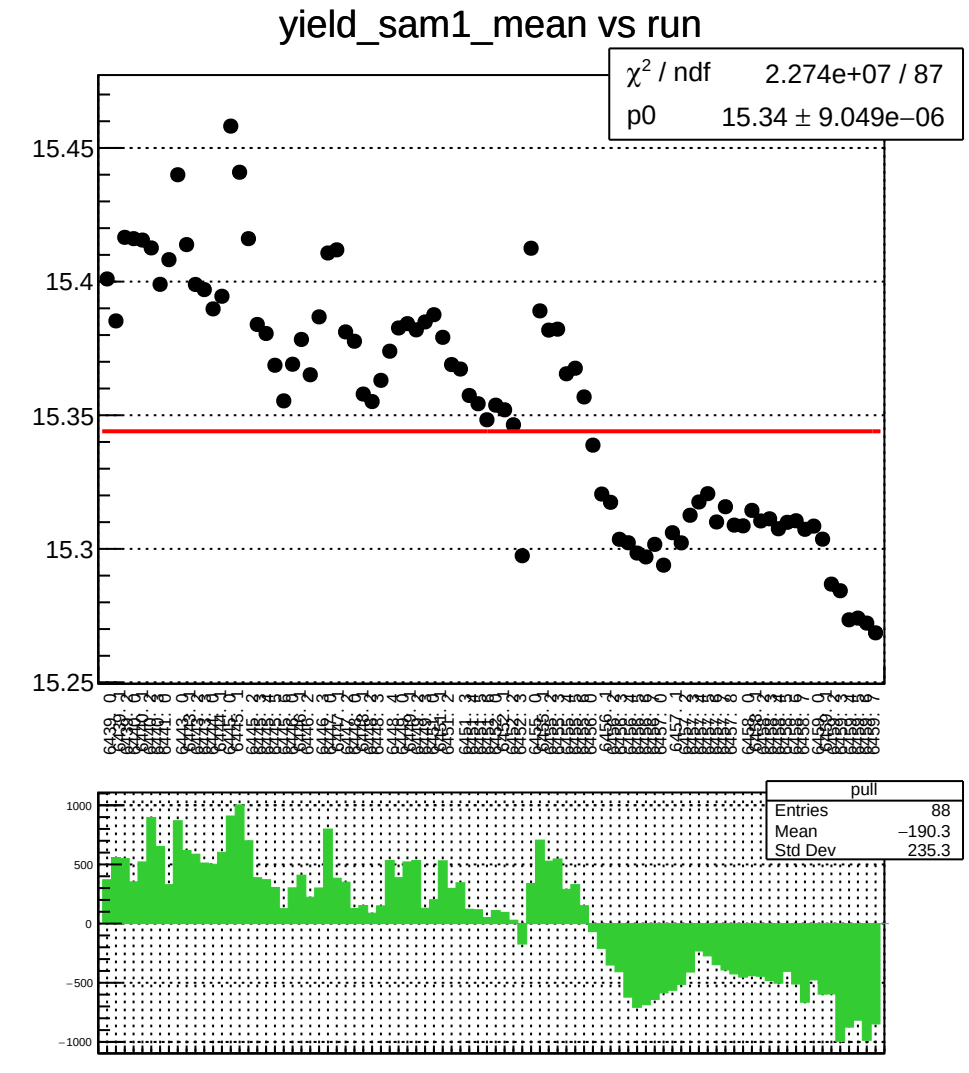

pull1D
Entries 88
Mean −0.009754
Std Dev 0.8715
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

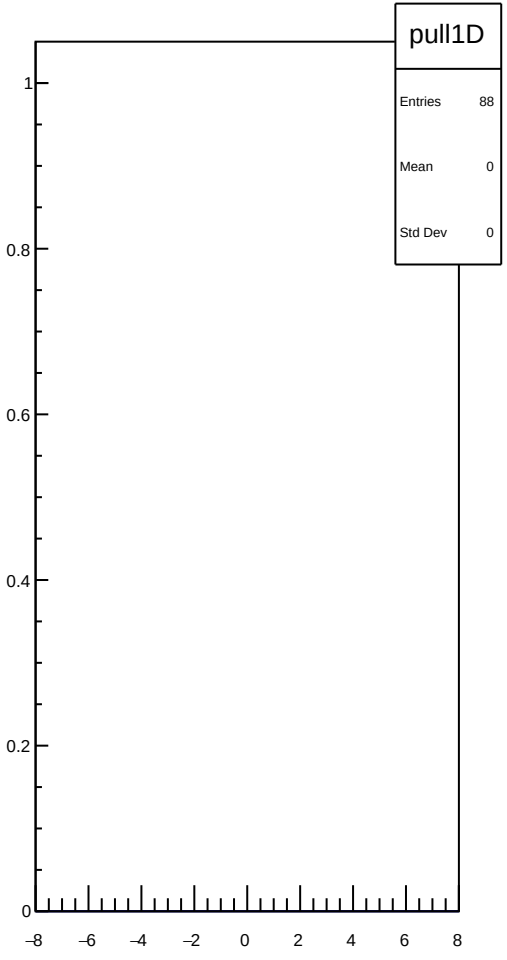

asym_sam7_rms vs run
χ² / ndf 1.536e+04 / 87
p0 399.8 ± 0.3083
550
500
450
400
350
300

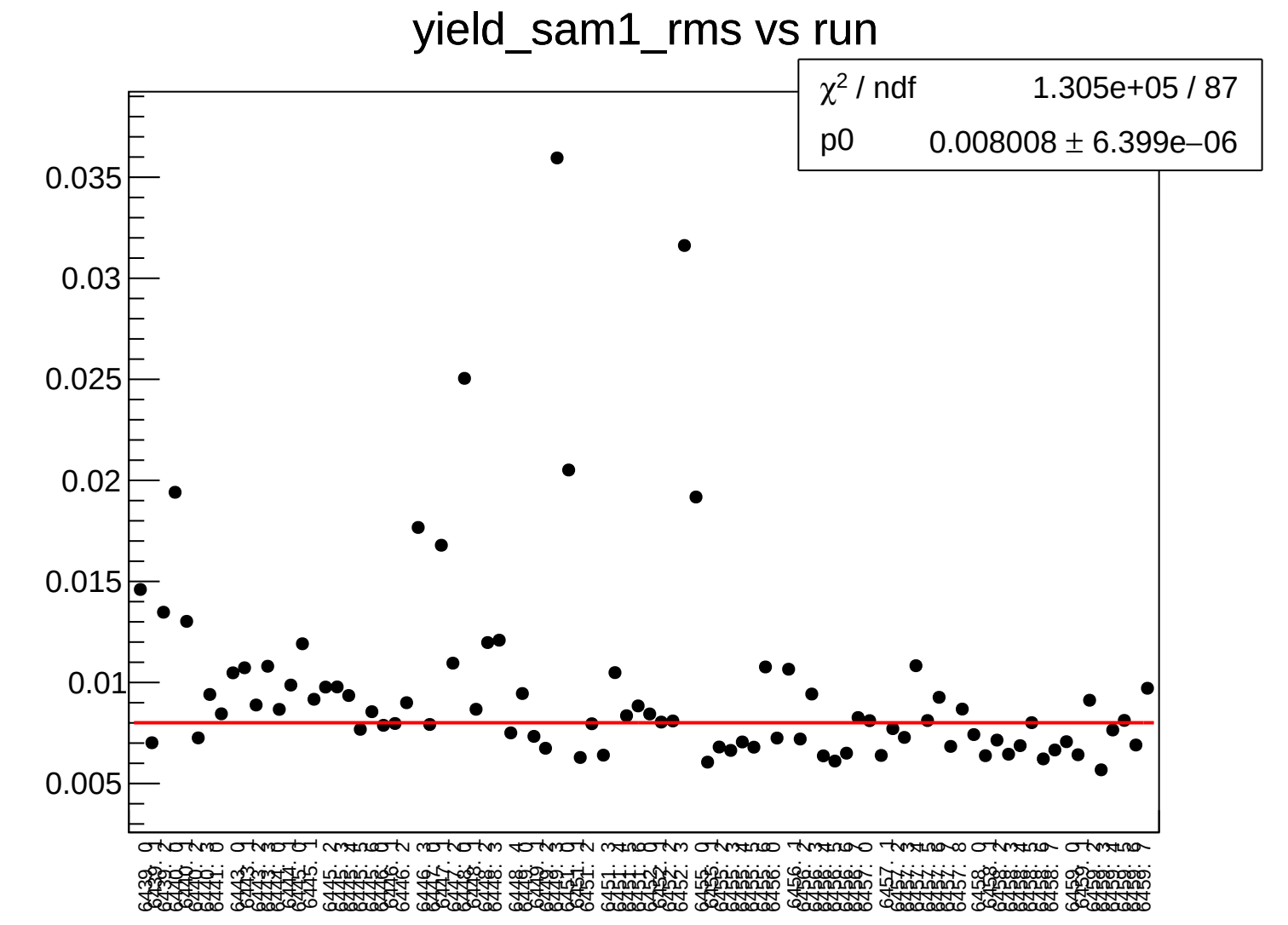

asym_sam8_mean vs run
χ² / ndf 68.83 / 87
p0 410.2 ± 333.6
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 679
Std Dev 617.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

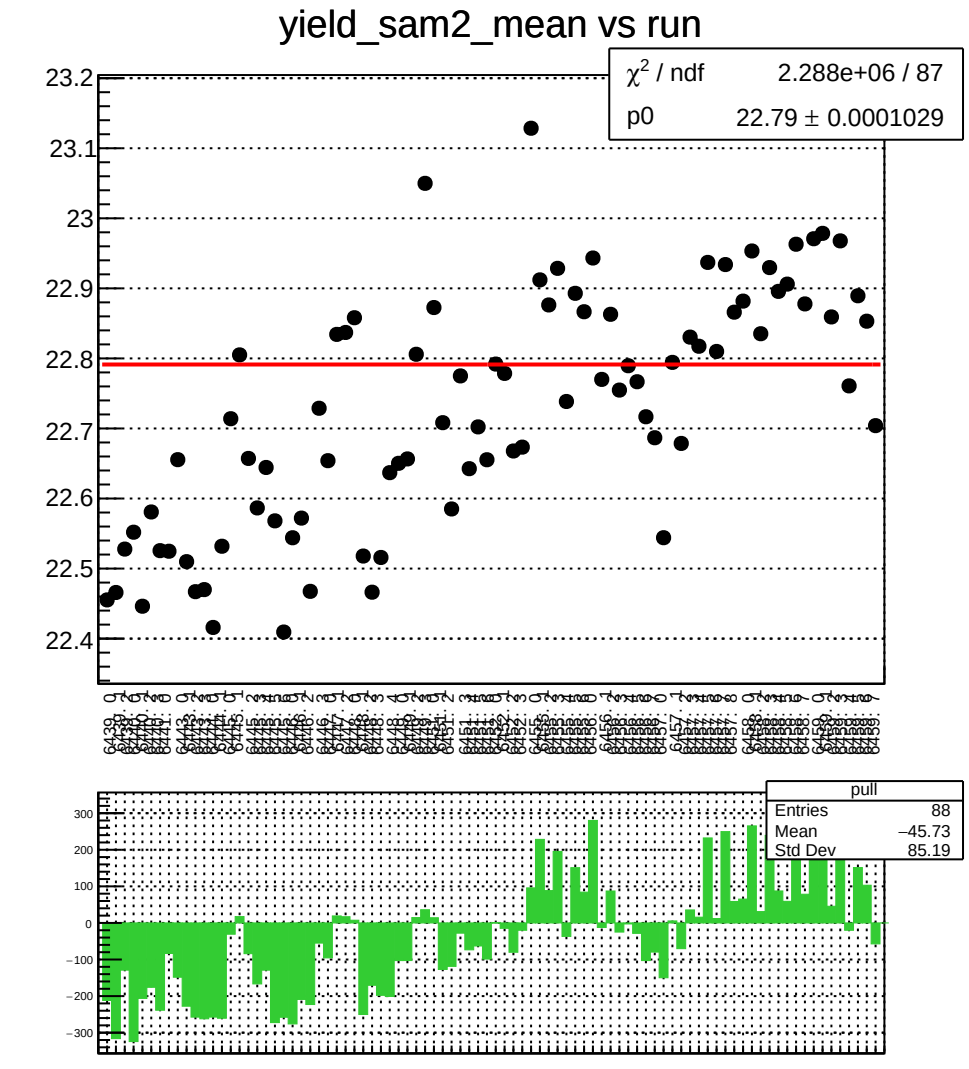

pull1D
Entries 88
Mean −0.002981
Std Dev 0.8844
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

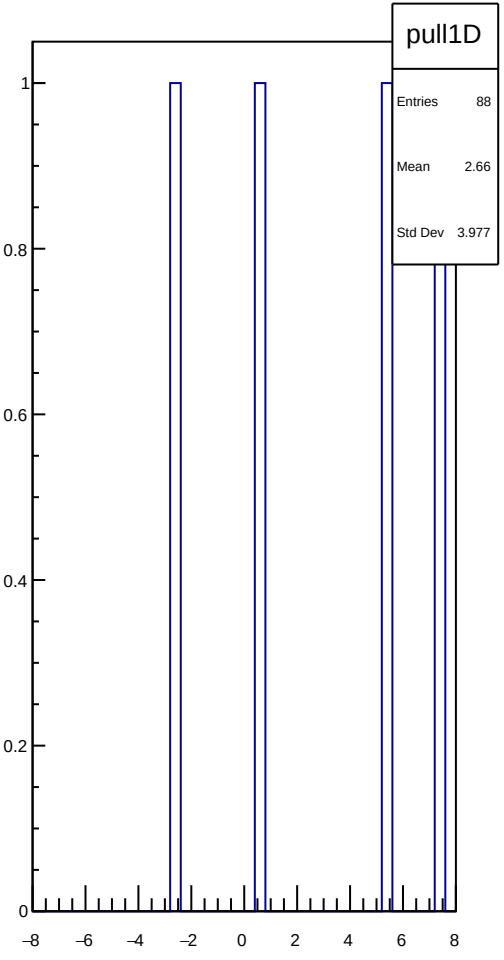

asym_sam8_rms vs run
χ^2 / ndf 1.037e+04 / 87
p0 306.3 ± 0.2359
440
420
400
380
360
340
320
300
280
260
240

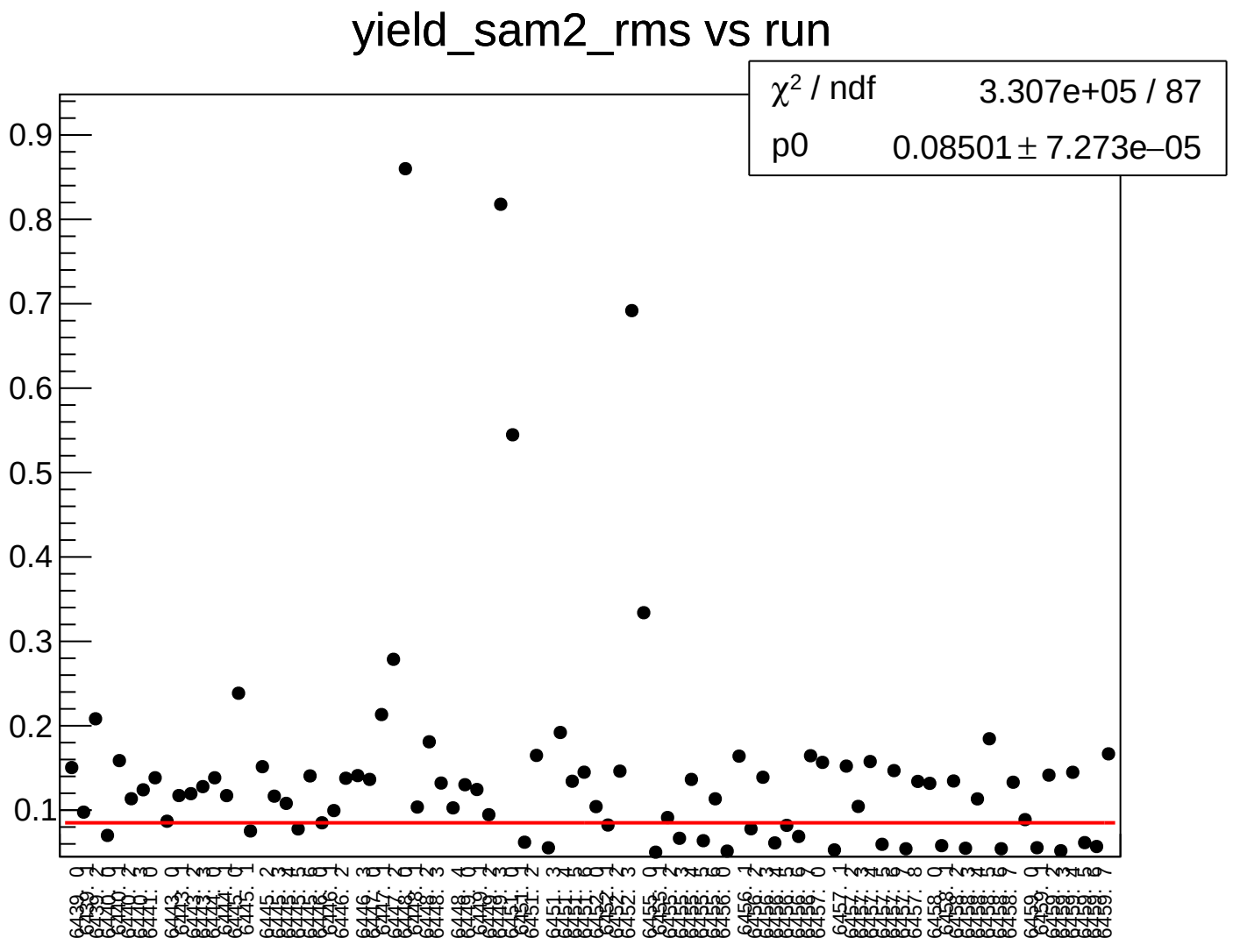

yield_sam1_mean vs run
χ² / ndf 2.274e+07 / 87
p0 15.34 ± 9.049e−06
15.45
15.4
15.35
15.3
15.25
pull
Entries 88
Mean −190.3
Std Dev 235.3
1000
500
0
−500
−1000

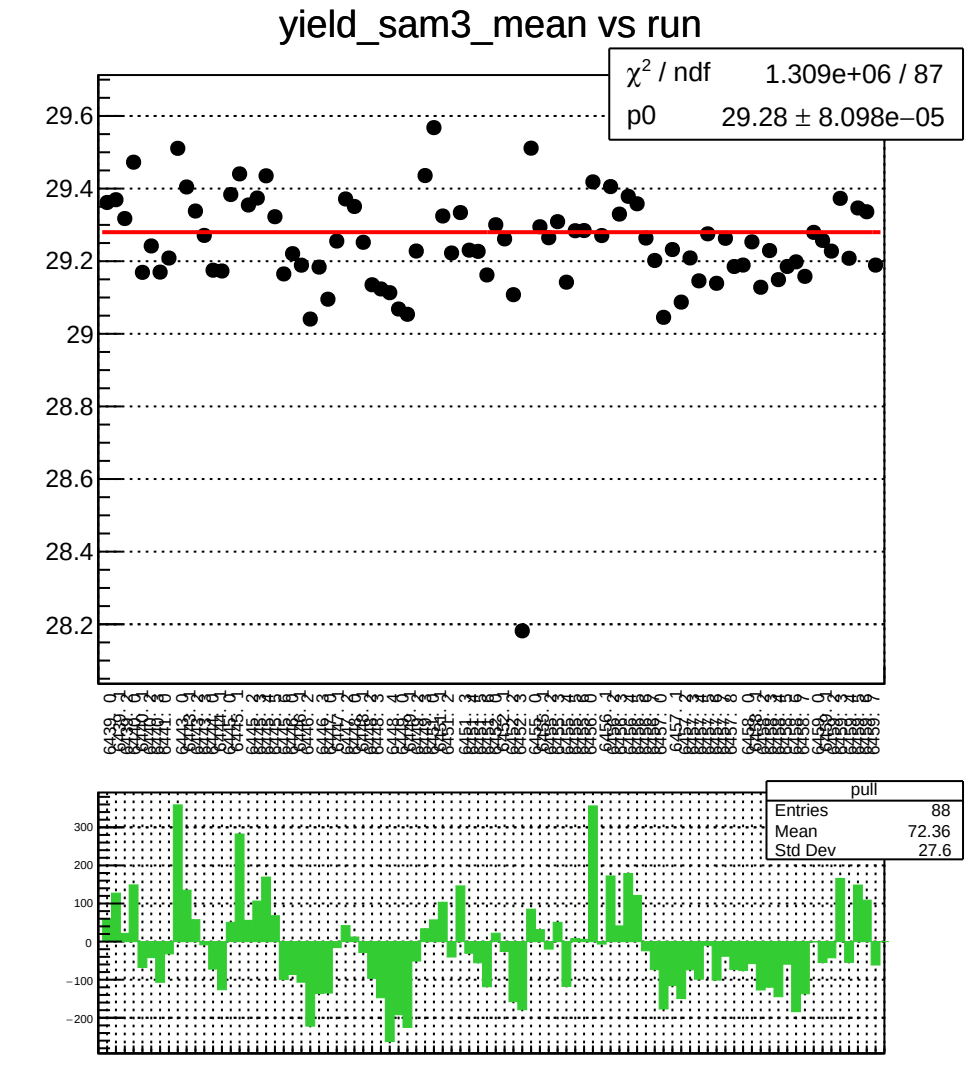

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

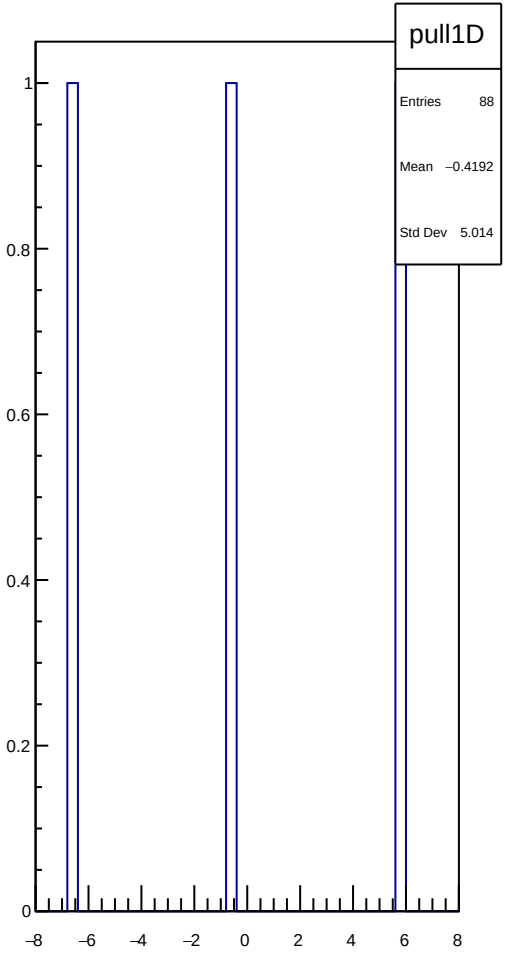

yield_sam1_rms vs run
χ^2 / ndf 1.305e+05 / 87
p0 0.008008 ± 6.399e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

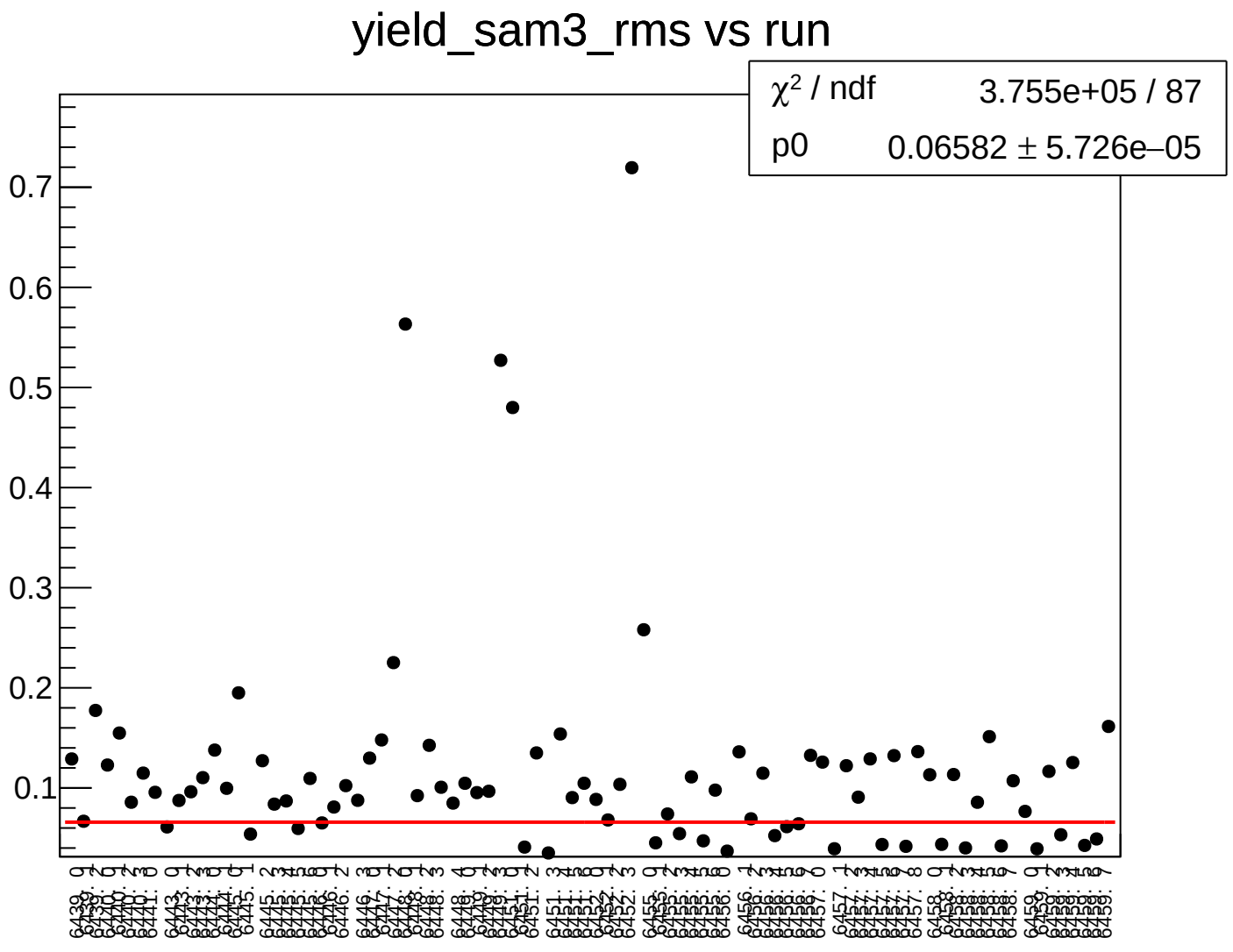

yield_sam2_mean vs run
χ² / ndf 2.288e+06 / 87
p0 22.79 ± 0.0001029
23.2
23.1
23
22.9
22.8
22.7
22.6
22.5
22.4
pull
Entries 88
Mean −45.73
Std Dev 85.19
300
200
100
0
−100
−200
−300

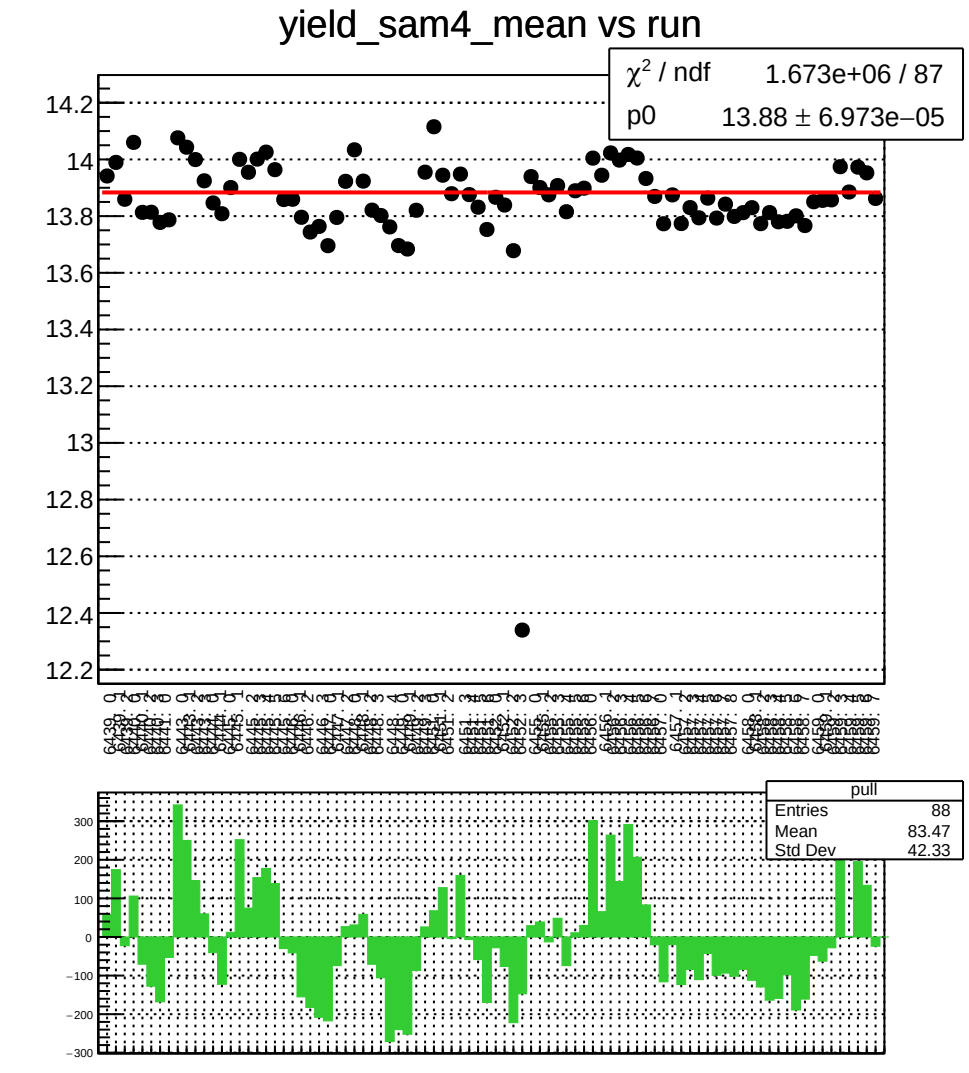

pull1D
Entries 88
Mean 2.66
Std Dev 3.977
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

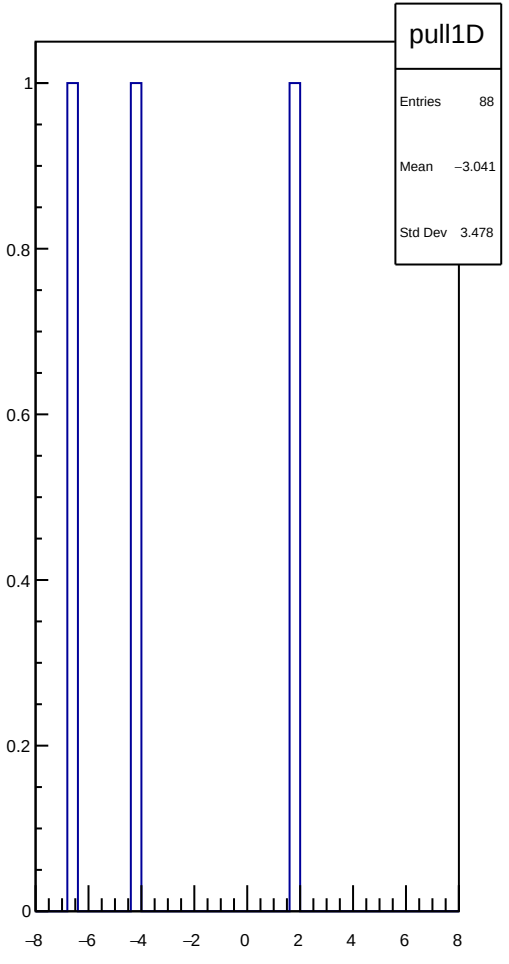

yield_sam2_rms vs run
χ² / ndf 3.307e+05 / 87
p0 0.08501 ± 7.273e−05
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

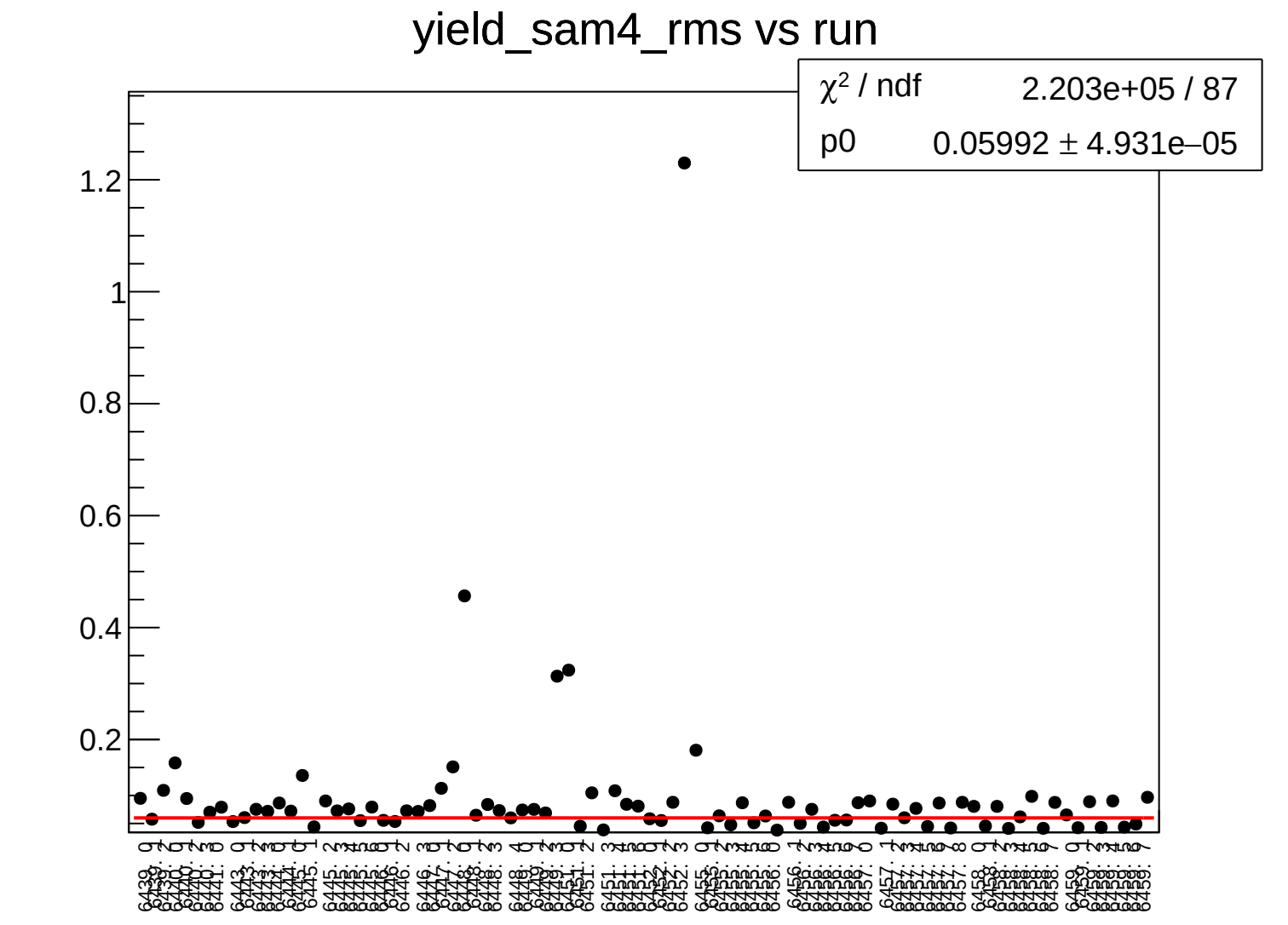

yield_sam3_mean vs run
χ² / ndf 1.309e+06 / 87
p0 29.28 ± 8.098e−05
29.6
29.4
29.2
29
28.8
28.6
28.4
28.2
pull
Entries 88
Mean 72.36
Std Dev 27.6
300
200
100
0
−100
−200

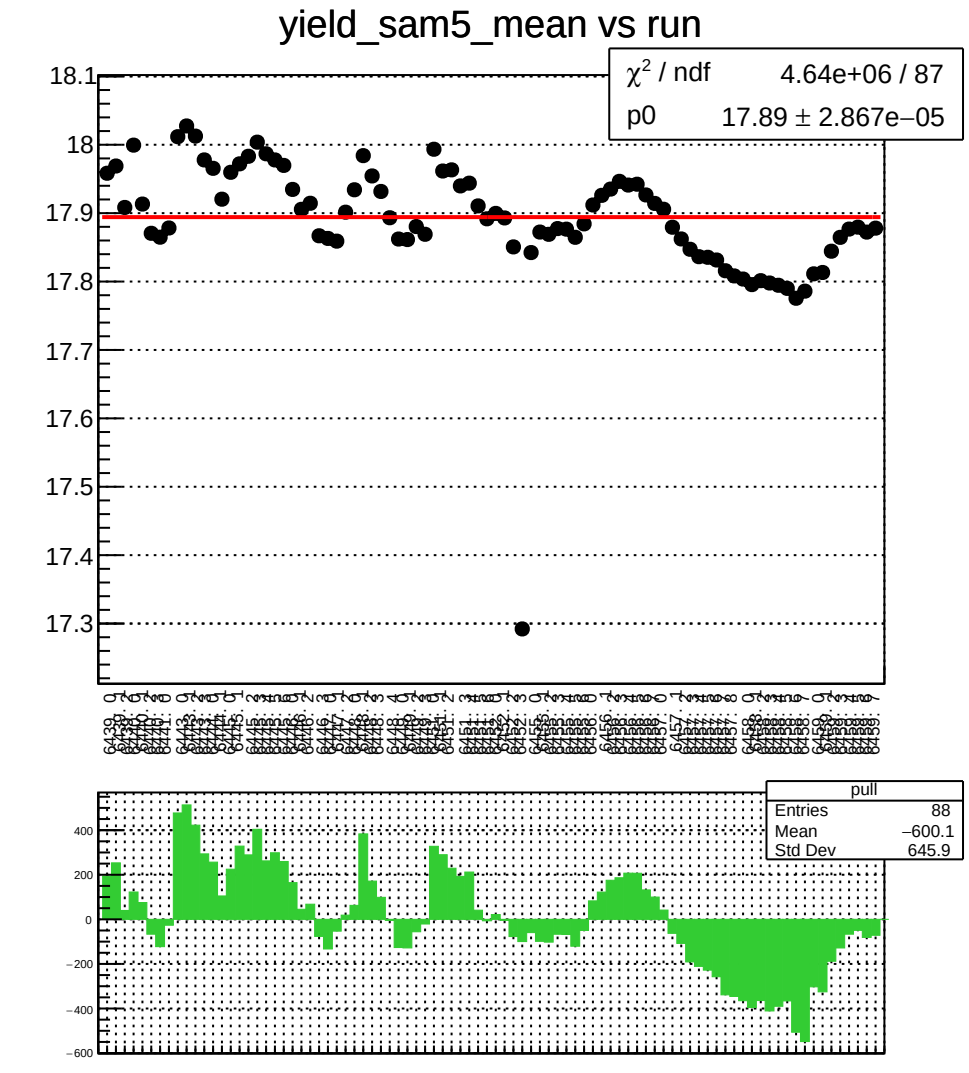

pull1D
Entries 88
Mean −0.4192
Std Dev 5.014
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

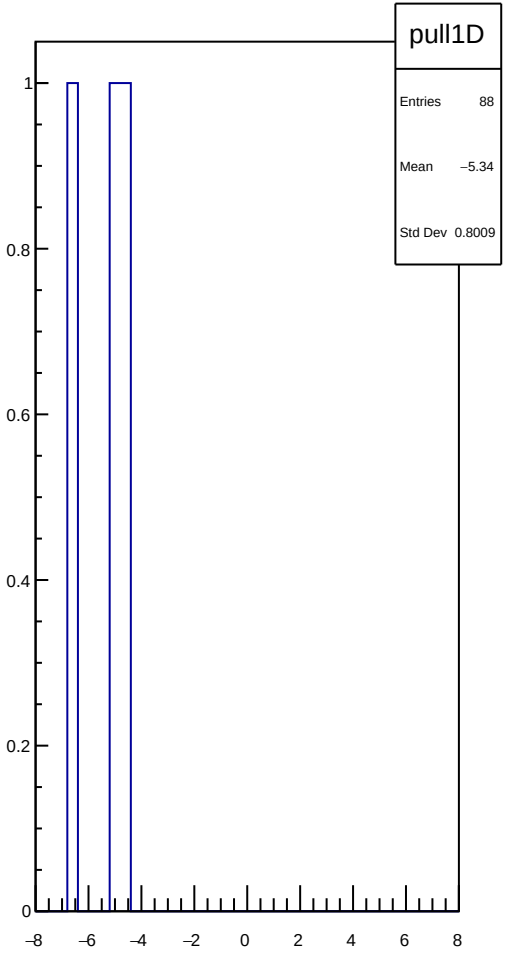

yield_sam3_rms vs run
χ² / ndf 3.755e+05 / 87
p0 0.06582 ± 5.726e−05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

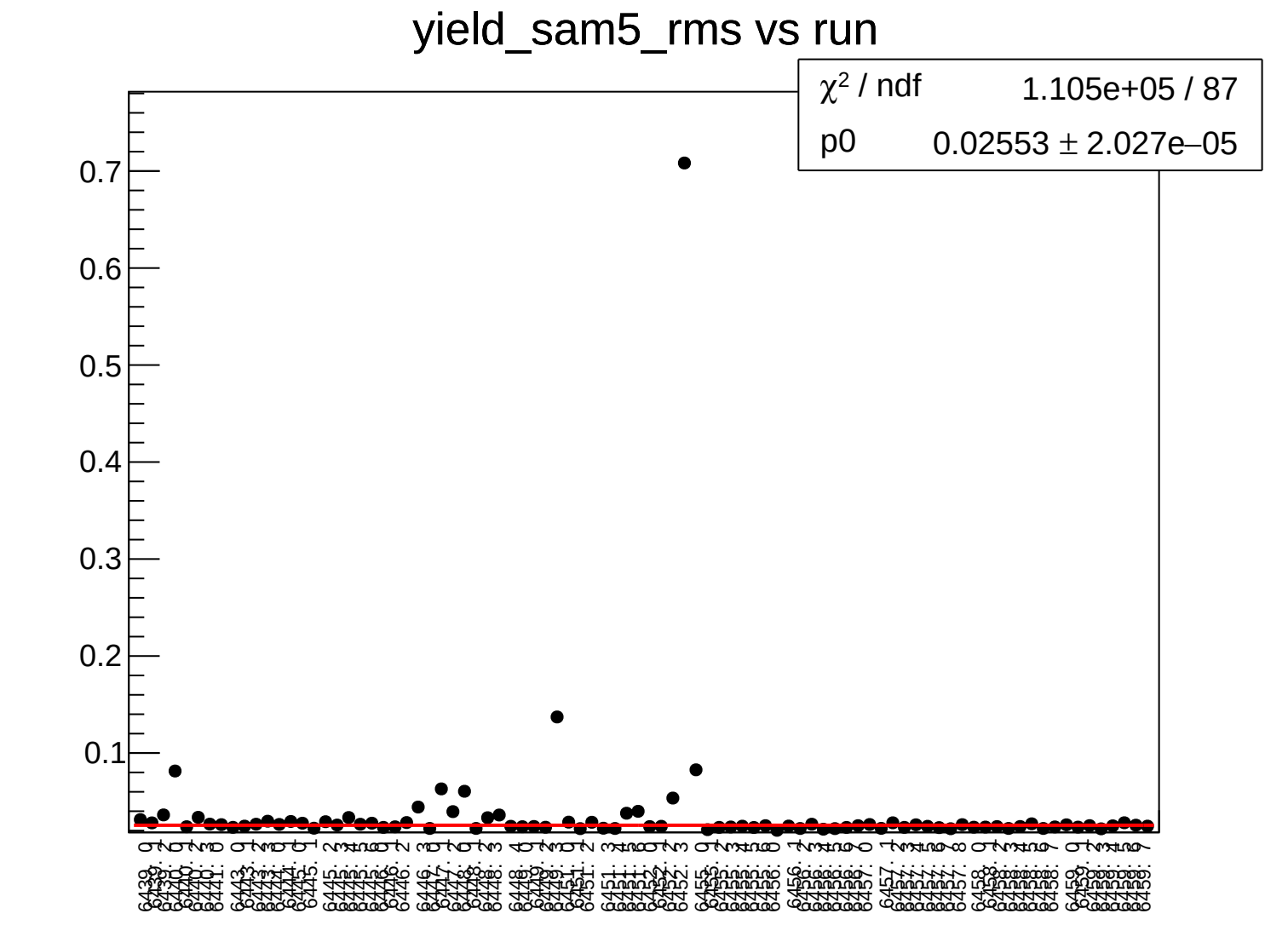

yield_sam4_mean vs run
χ² / ndf 1.673e+06 / 87
p0 13.88 ± 6.973e−05
14.2
14
13.8
13.6
13.4
13.2
13
12.8
12.6
12.4
12.2
pull
Entries 88
Mean 83.47
Std Dev 42.33
300
200
100
0
−100
−200
−300

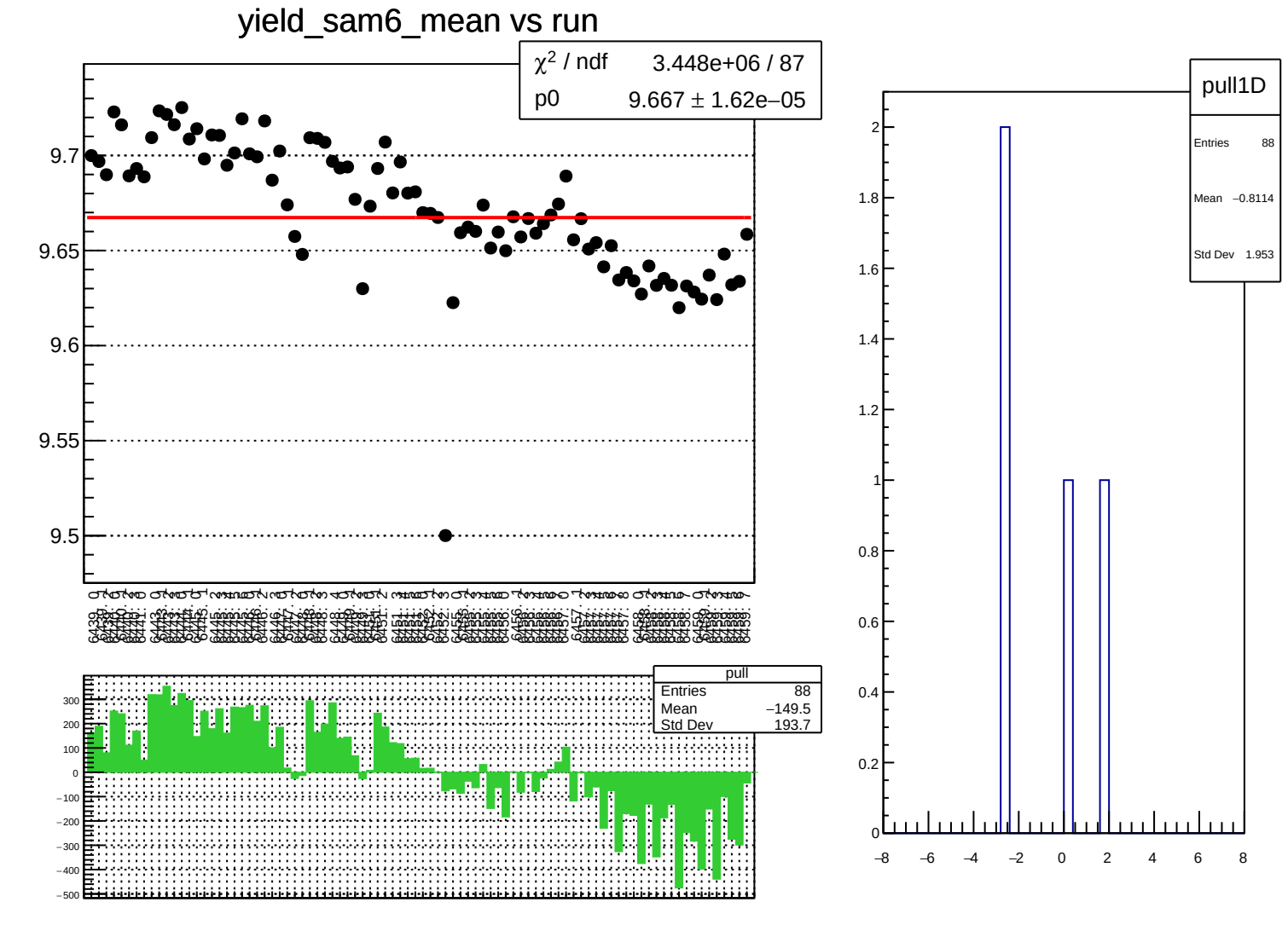

pull1D
Entries 88
Mean −3.041
Std Dev 3.478
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

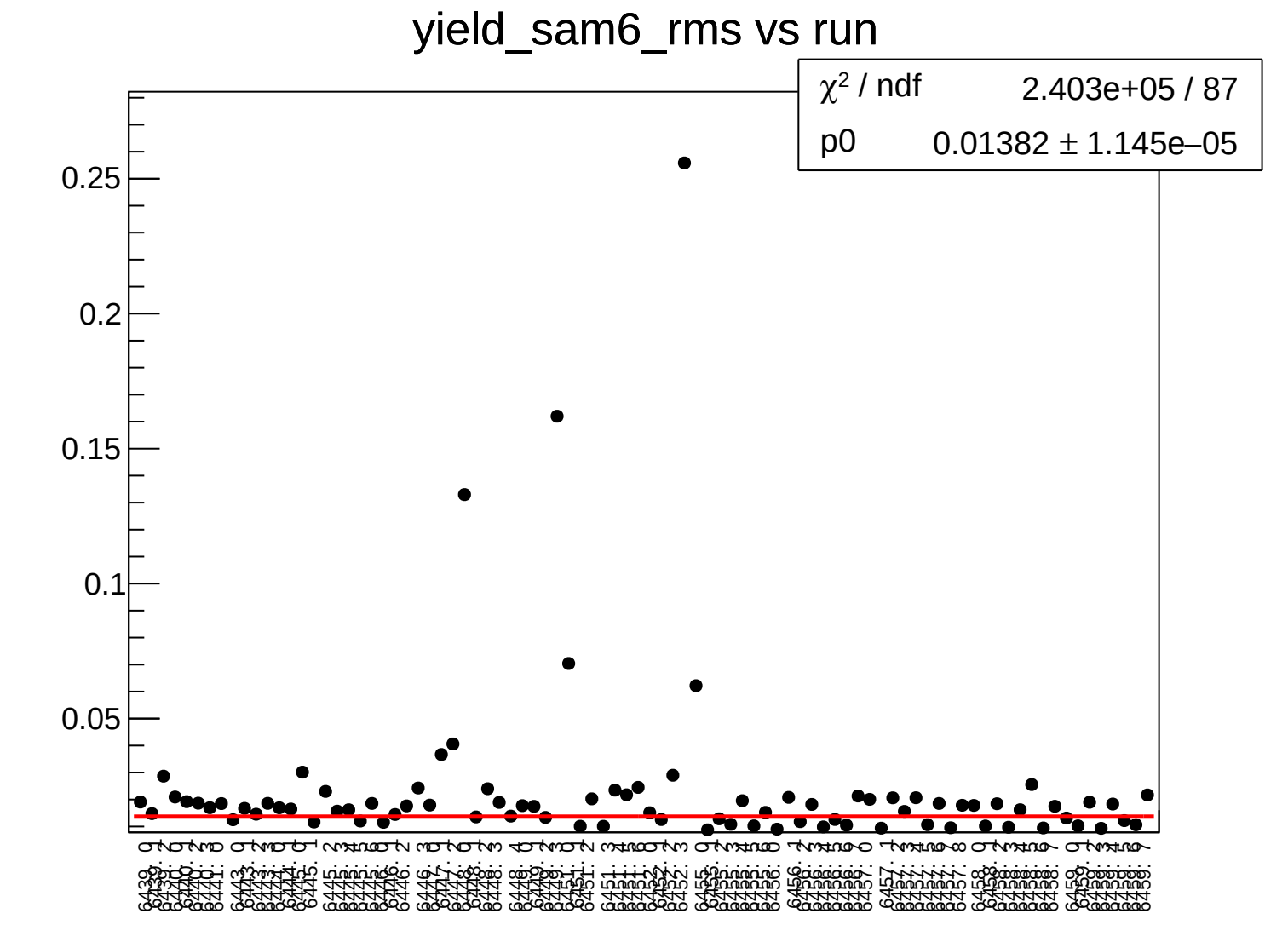

yield_sam4_rms vs run
χ² / ndf 2.203e+05 / 87
p0 0.05992 ± 4.931e−05
1.2
1
0.8
0.6
0.4
0.2

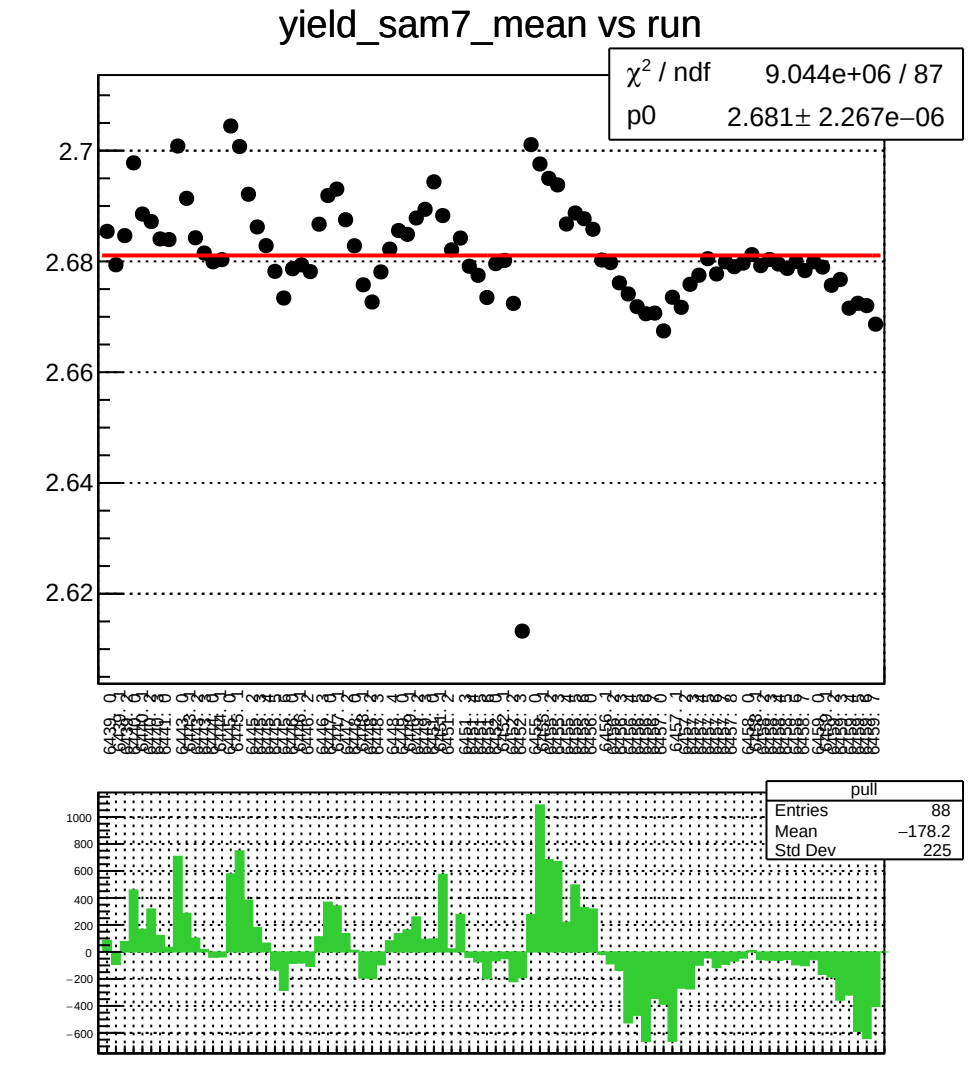

yield_sam5_mean vs run
χ² / ndf 4.64e+06 / 87
p0 17.89 ± 2.867e−05
18.1
18
17.9
17.8
17.7
17.6
17.5
17.4
17.3
pull
Entries 88
Mean −600.1
Std Dev 645.9
400
200
0
−200
−400
−600

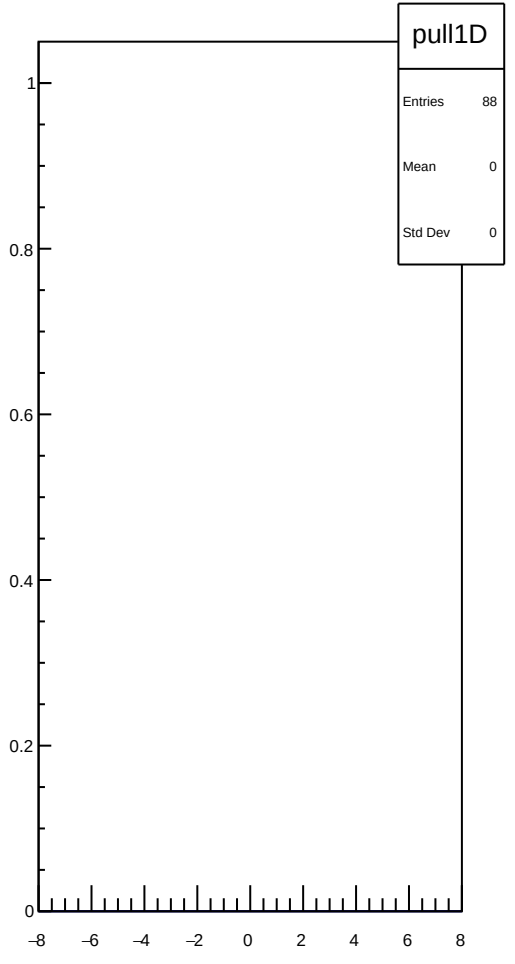

pull1D
Entries 88
Mean −5.34
Std Dev 0.8009
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

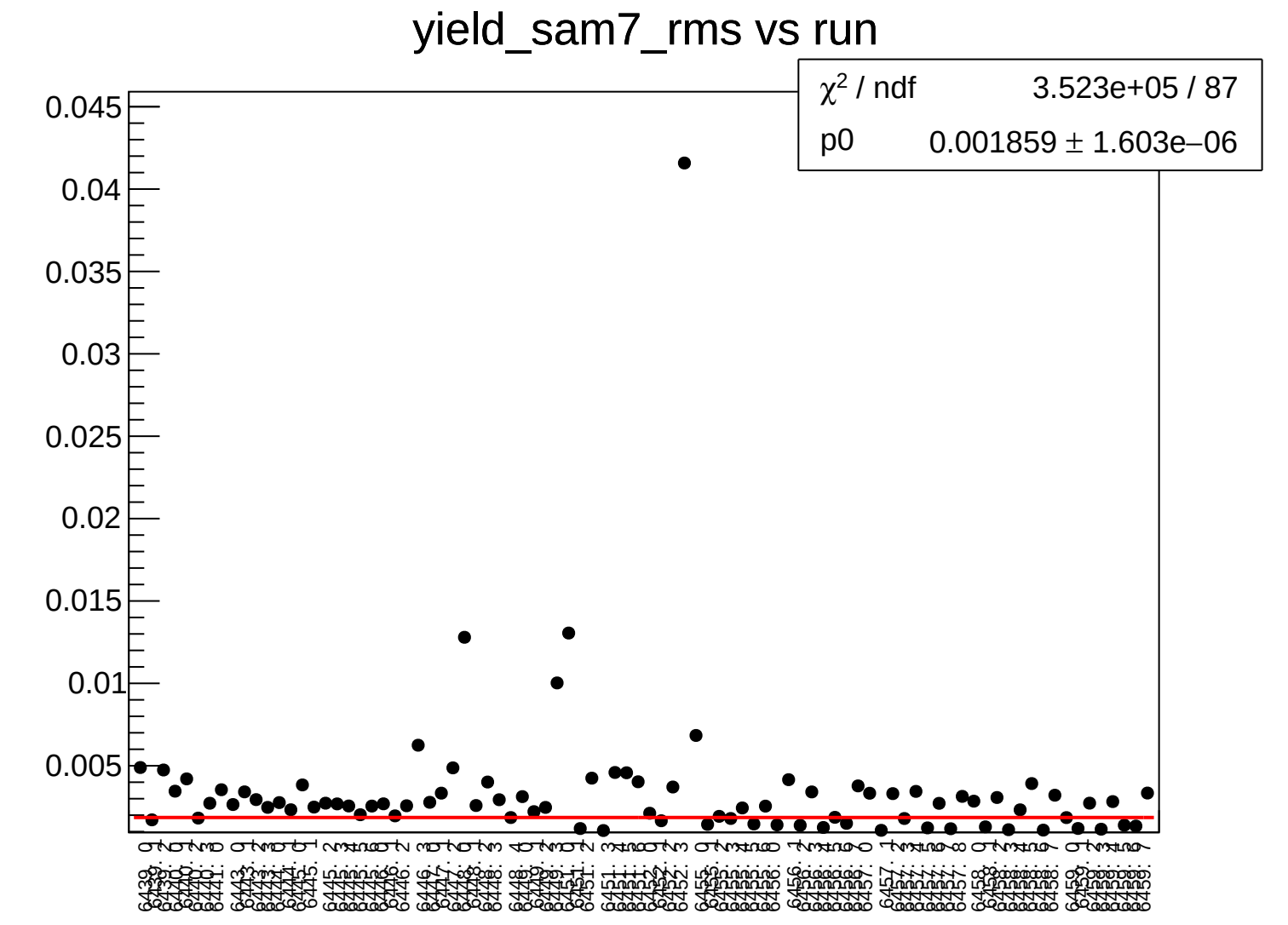

yield_sam5_rms vs run
χ² / ndf 1.105e+05 / 87
p0 0.02553 ± 2.027e–05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

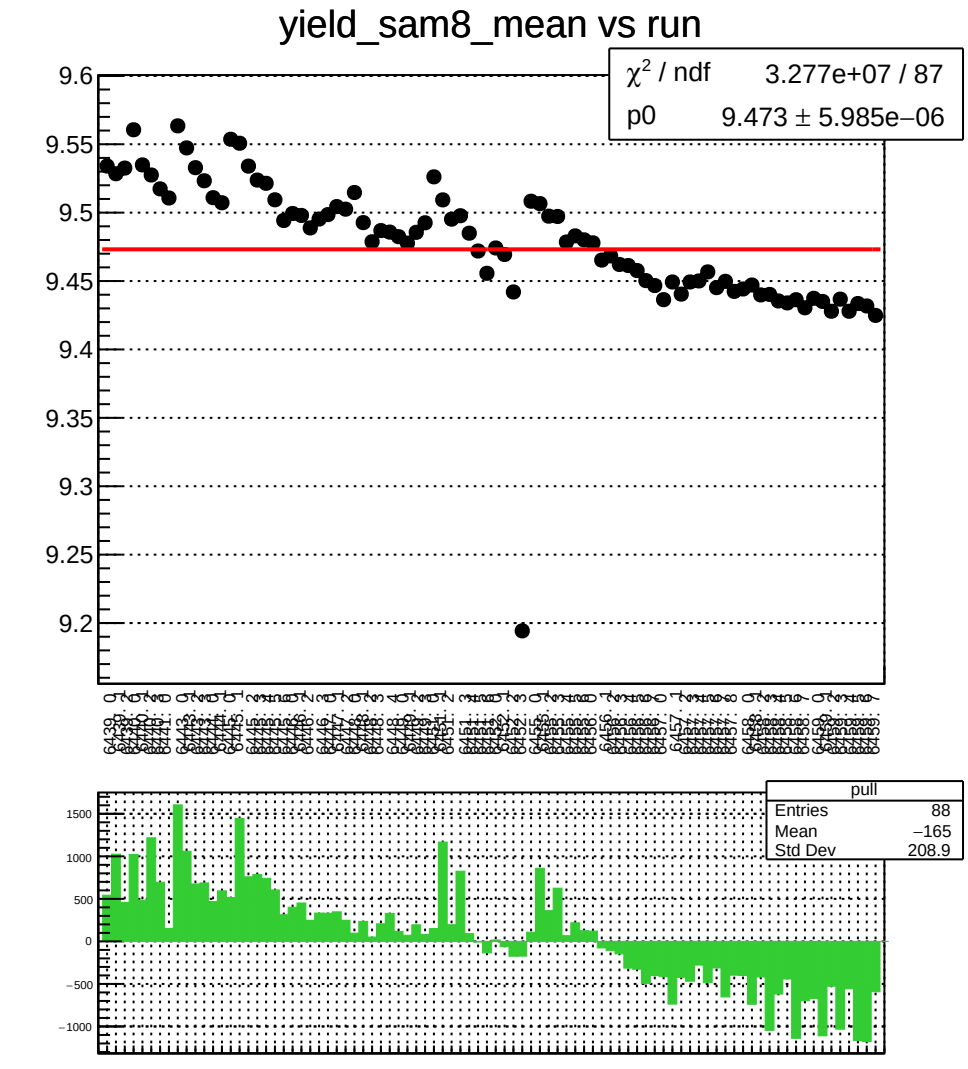

yield_sam6_mean vs run
χ² / ndf 3.448e+06 / 87
p0 9.667 ± 1.62e−05
9.7
9.65
9.6
9.55
9.5
pull
Entries 88
Mean −149.5
Std Dev 193.7
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 88
Mean −0.8114
Std Dev 1.953
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

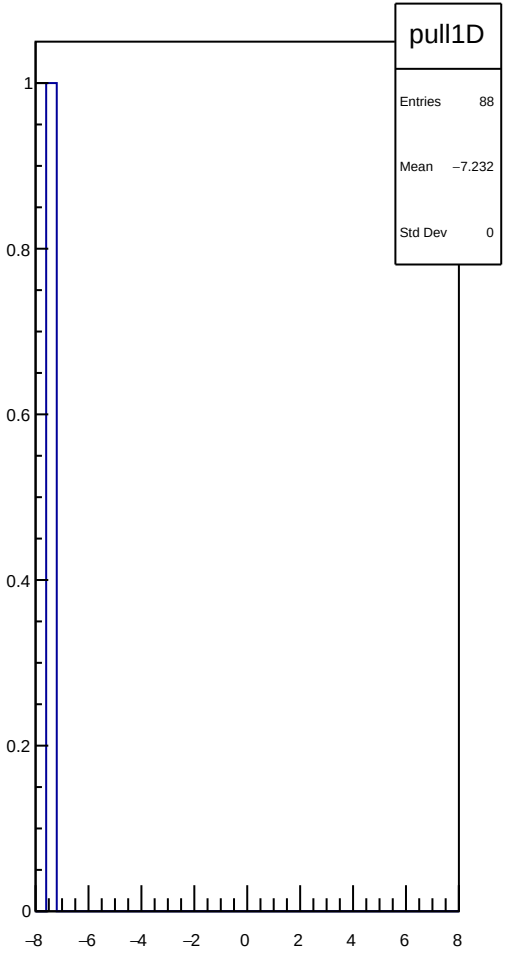

yield_sam6_rms vs run
χ² / ndf 2.403e+05 / 87
p0 0.01382 ± 1.145e−05
0.25
0.2
0.15
0.1
0.05

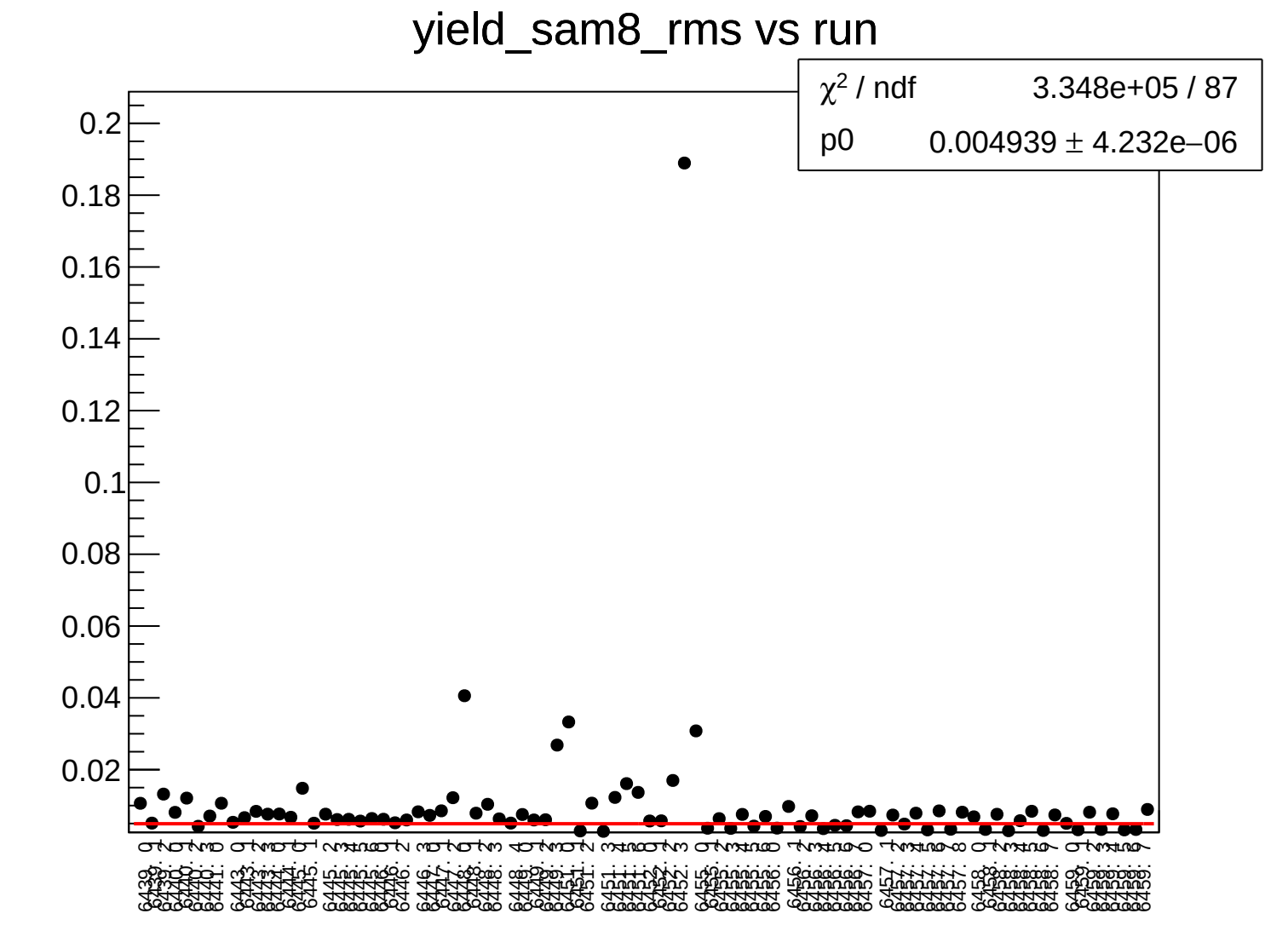

yield_sam7_mean vs run
χ² / ndf 9.044e+06 / 87
p0 2.681± 2.267e−06
2.7
2.68
2.66
2.64
2.62
pull
Entries 88
Mean −178.2
Std Dev 225
1000
800
600
400
200
0
−200
−400
−600

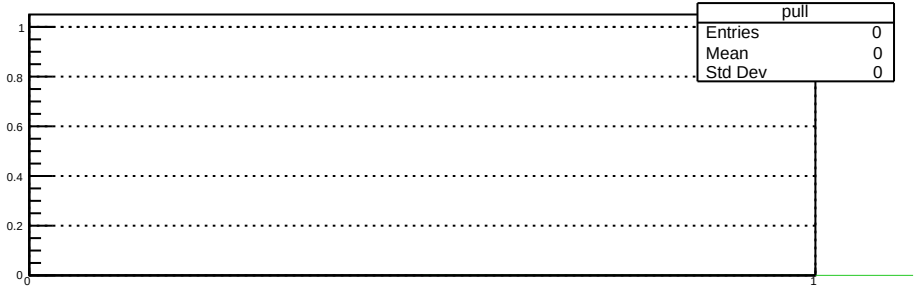

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

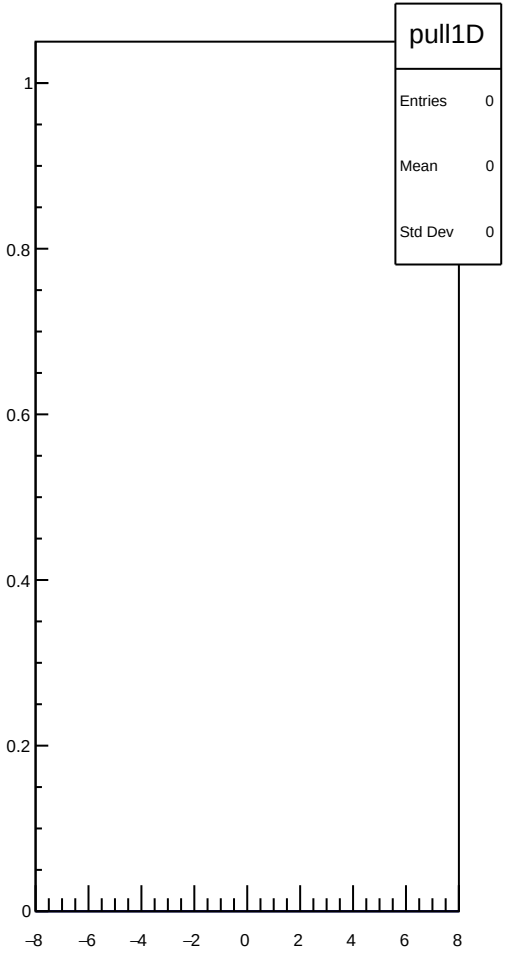

yield_sam7_rms vs run
χ^2 / ndf 3.523e+05 / 87
p0 0.001859 ± 1.603e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

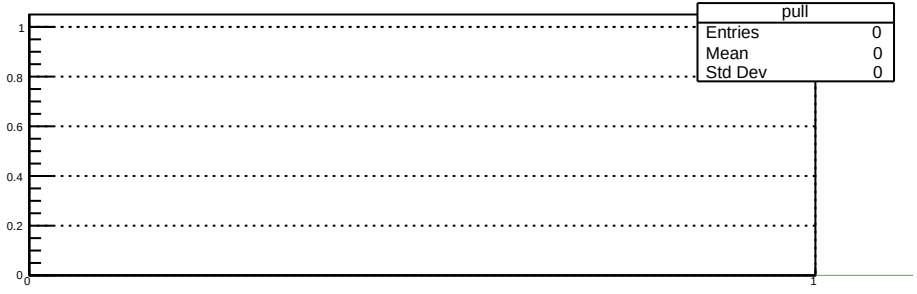

yield_sam8_mean vs run
χ² / ndf 3.277e+07 / 87
p0 9.473 ± 5.985e−06
9.6
9.55
9.5
9.45
9.4
9.35
9.3
9.25
9.2
pull
Entries 88
Mean −165
Std Dev 208.9
1500
1000
500
0
−500
−1000

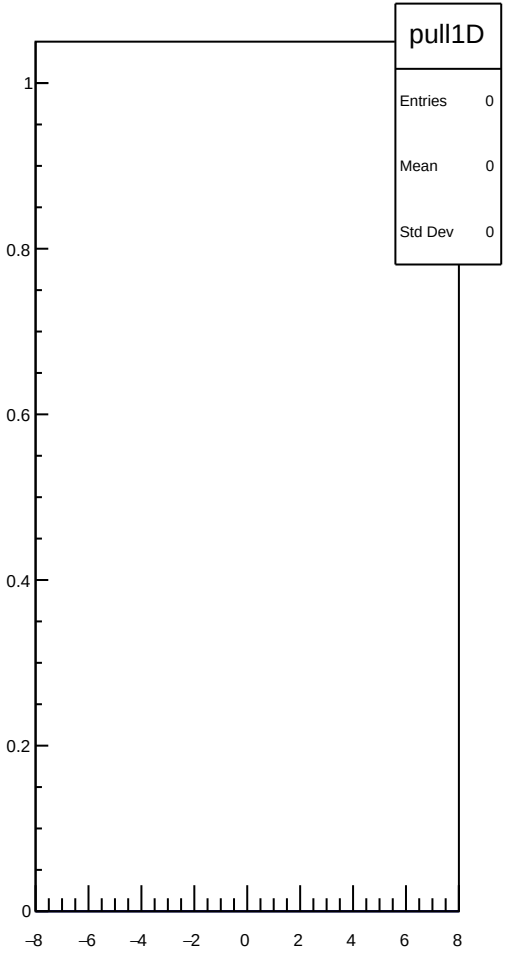

pull1D
Entries 88
Mean −7.232
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

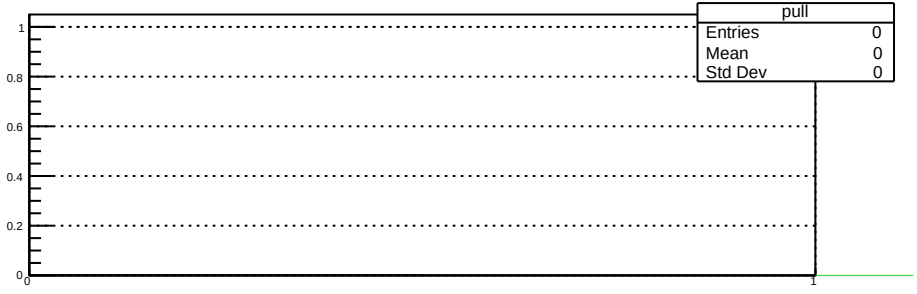

yield_sam8_rms vs run
χ^2 / ndf 3.348e+05 / 87
p0 0.004939 ± 4.232e−06
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

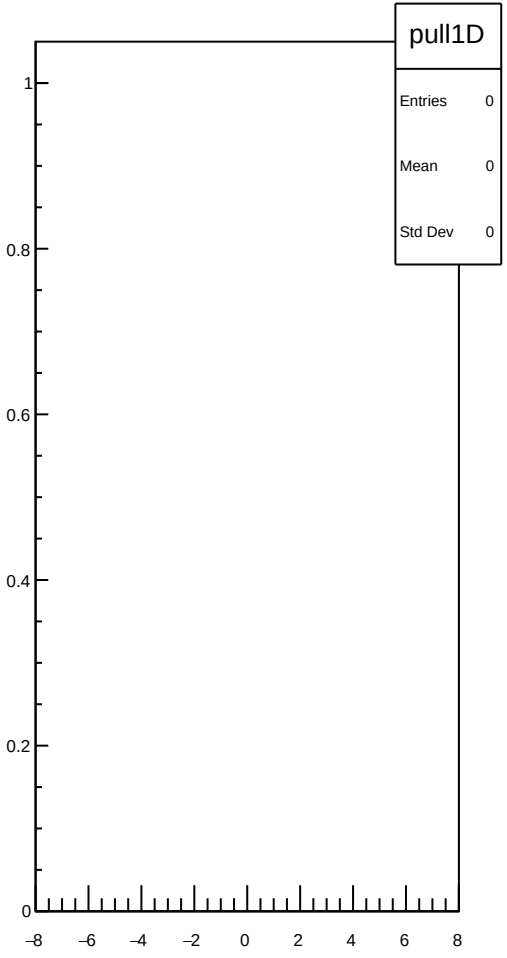

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


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


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


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


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


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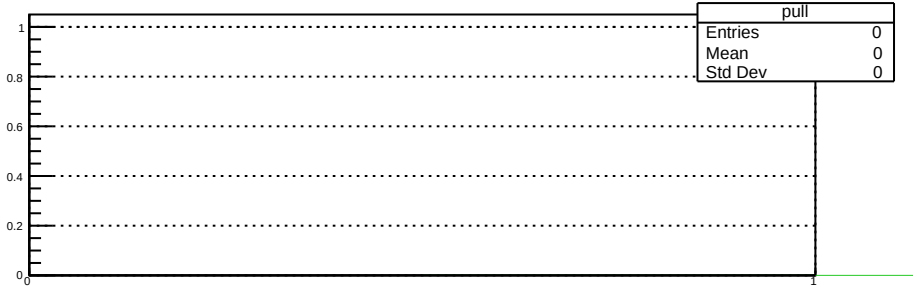
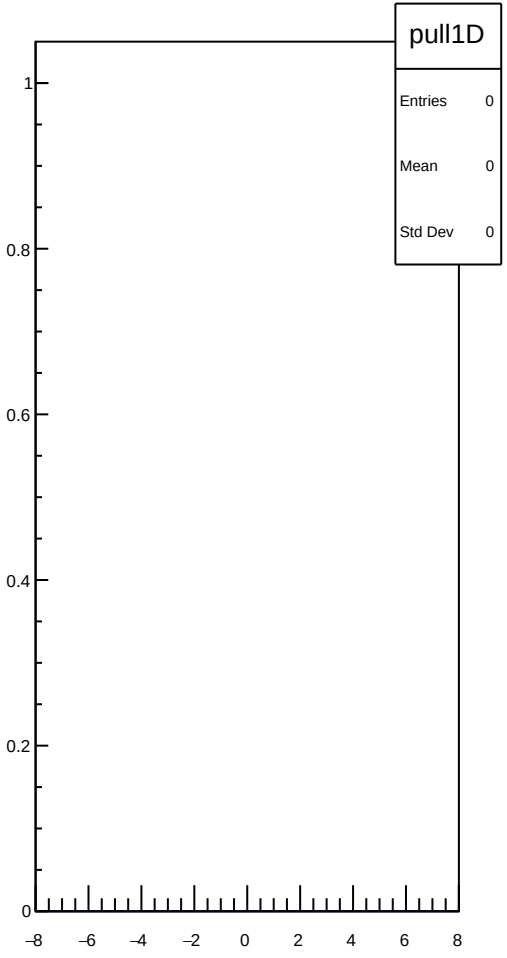

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


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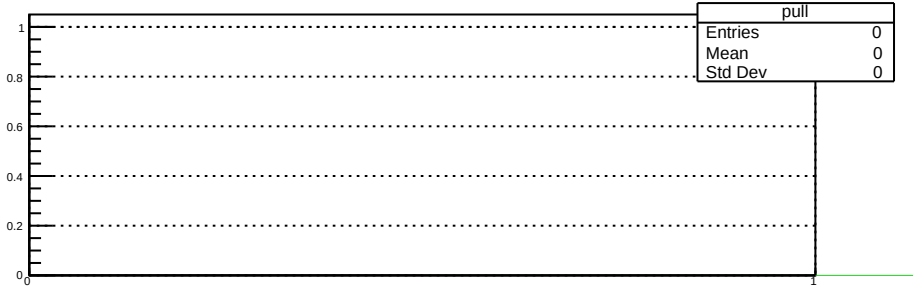
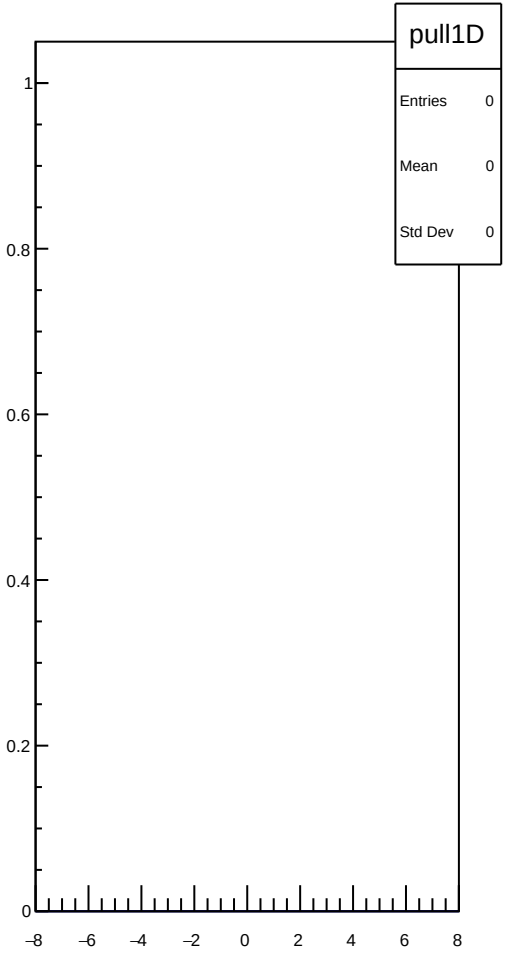
2
4
6
8


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


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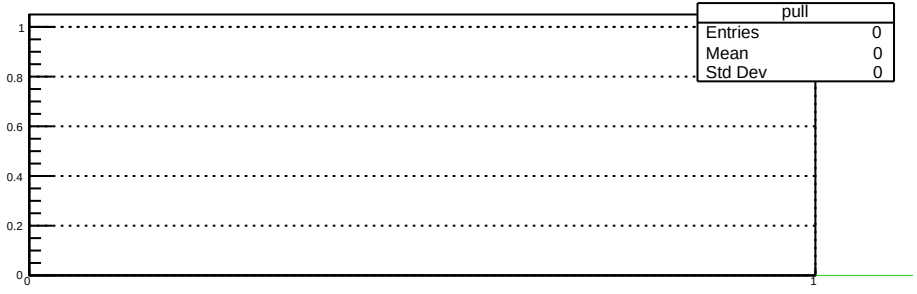
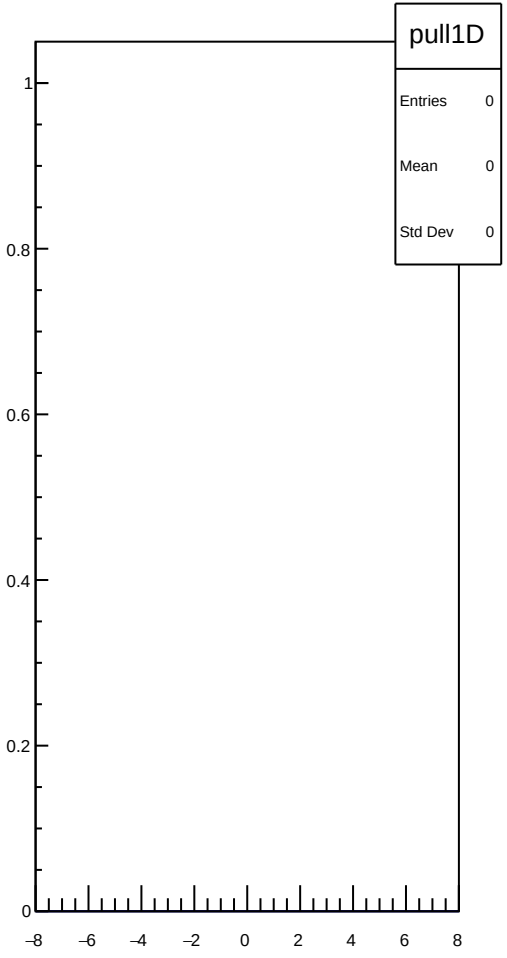
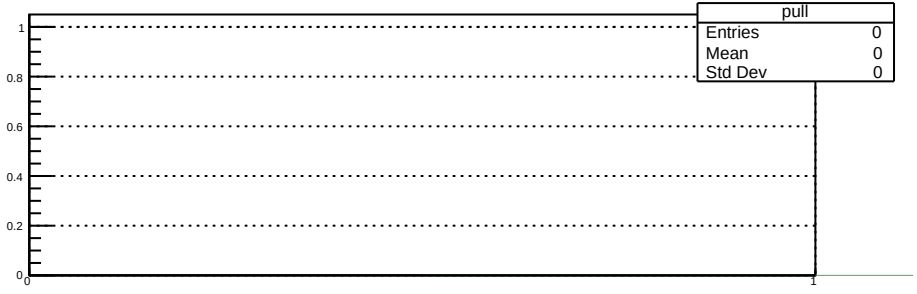
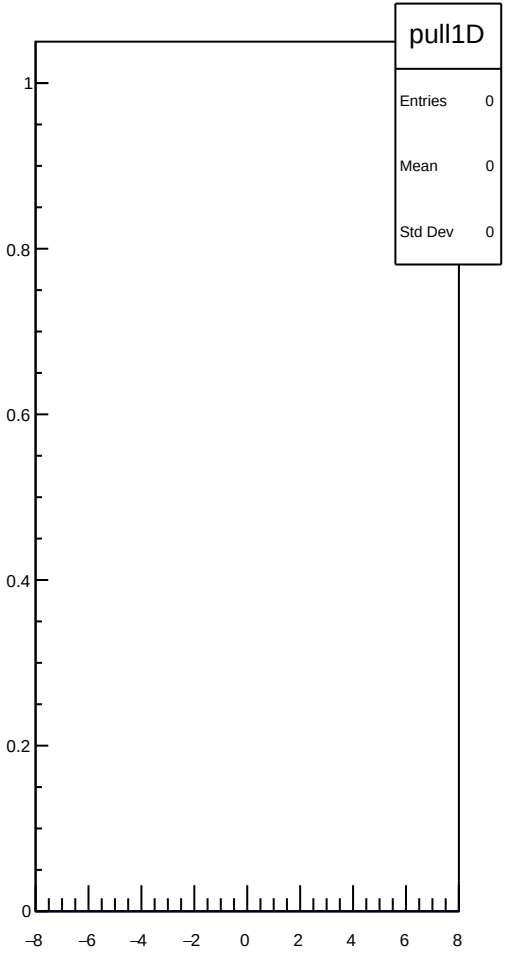
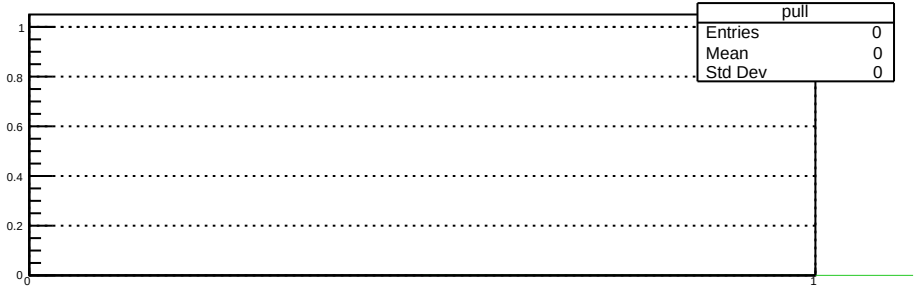
2
4
6
8

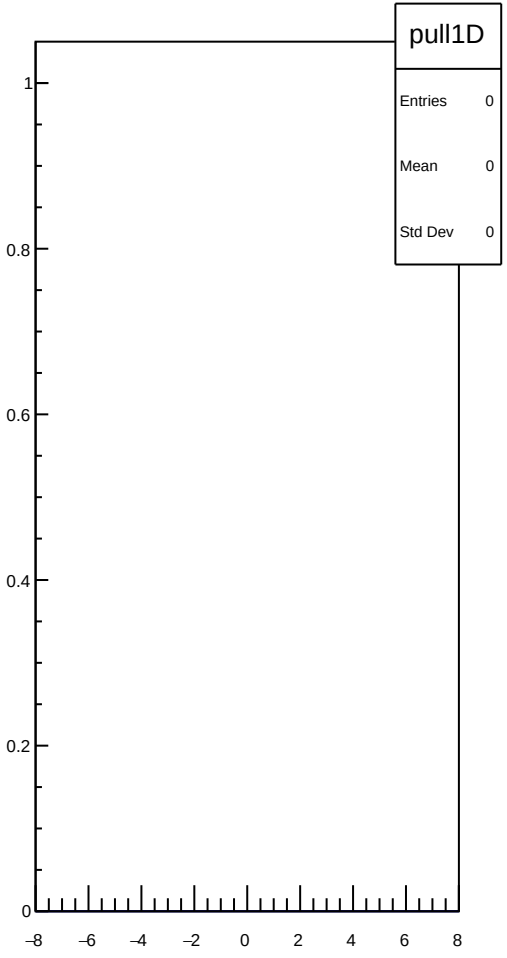

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

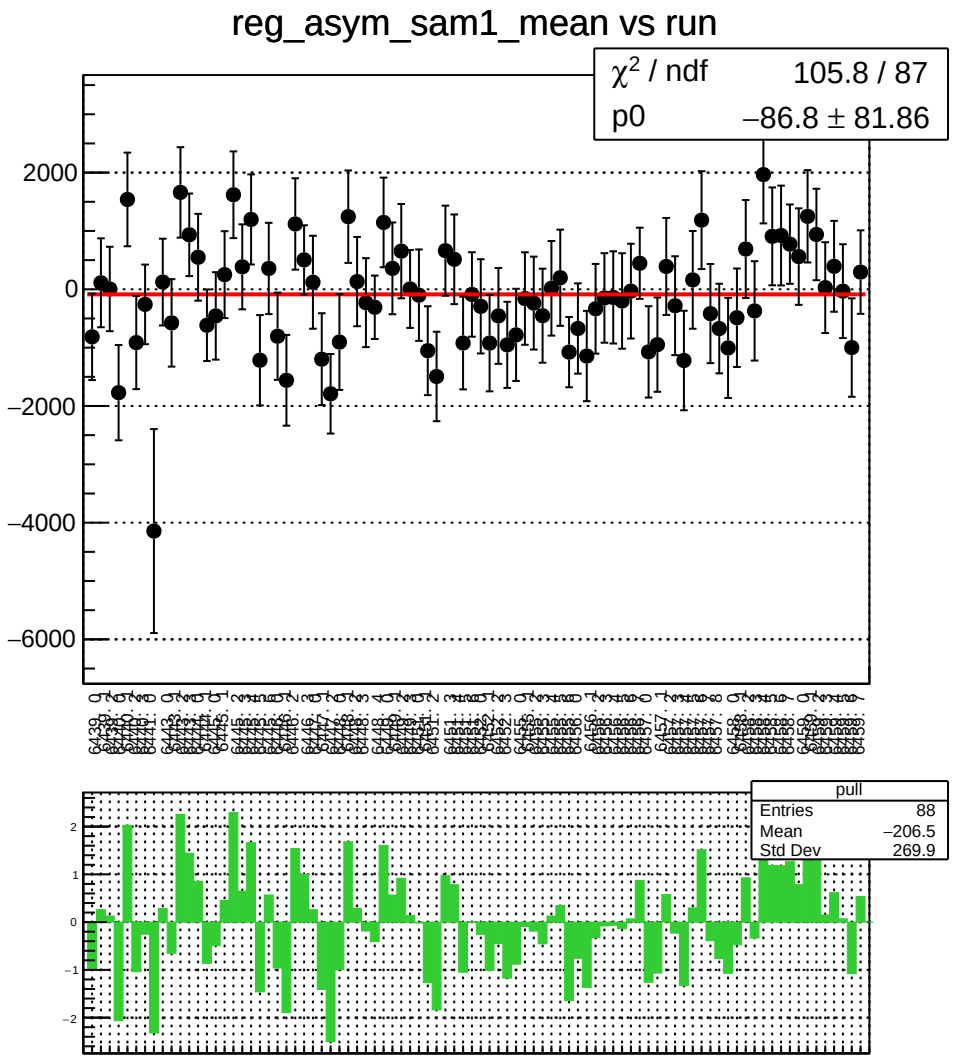

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

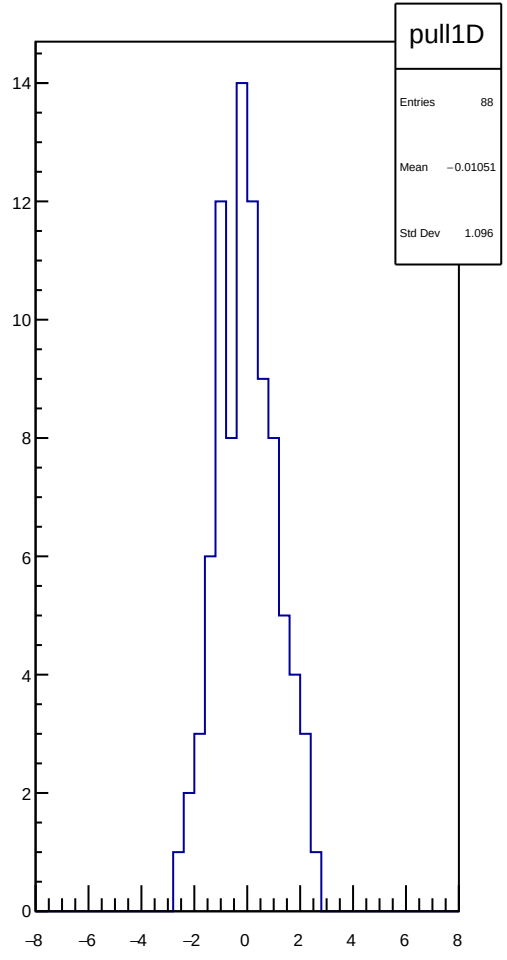

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

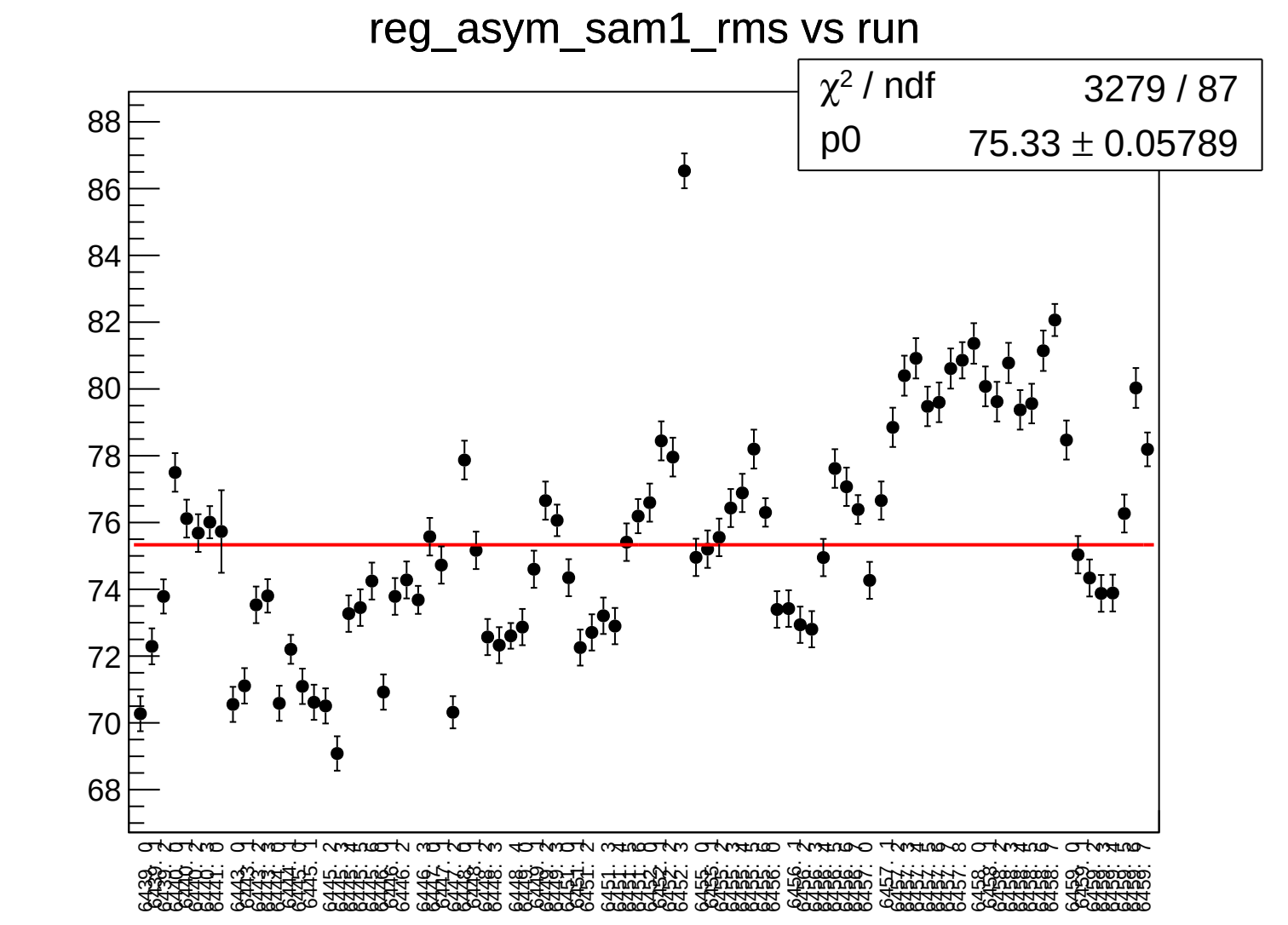

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

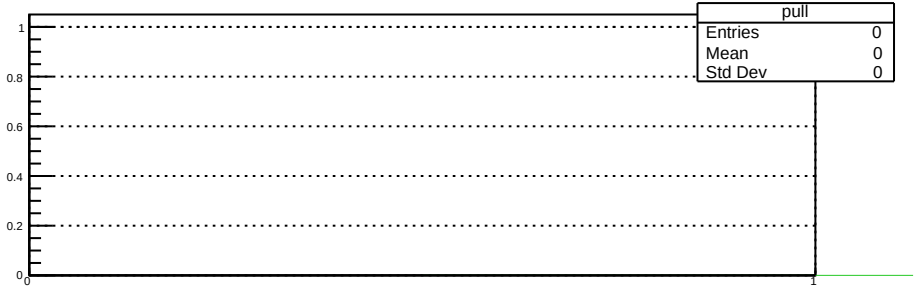

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

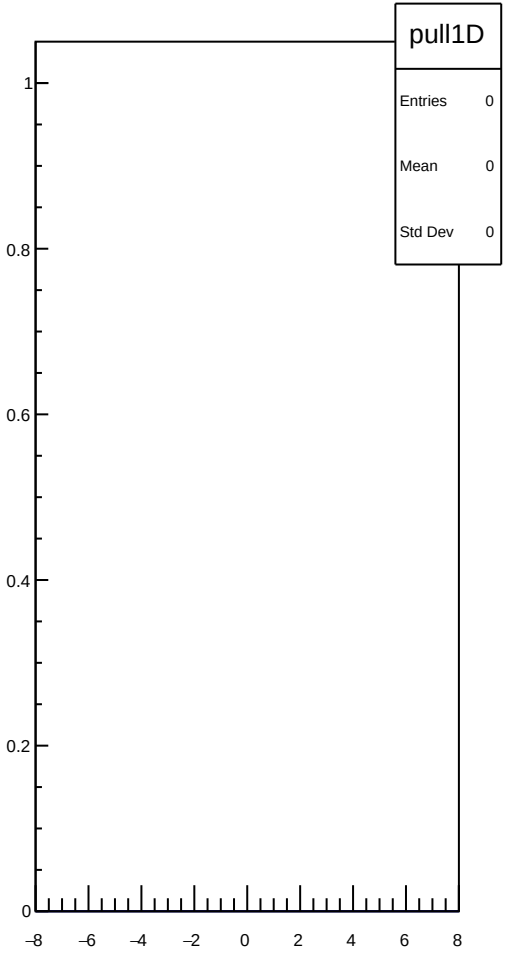

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

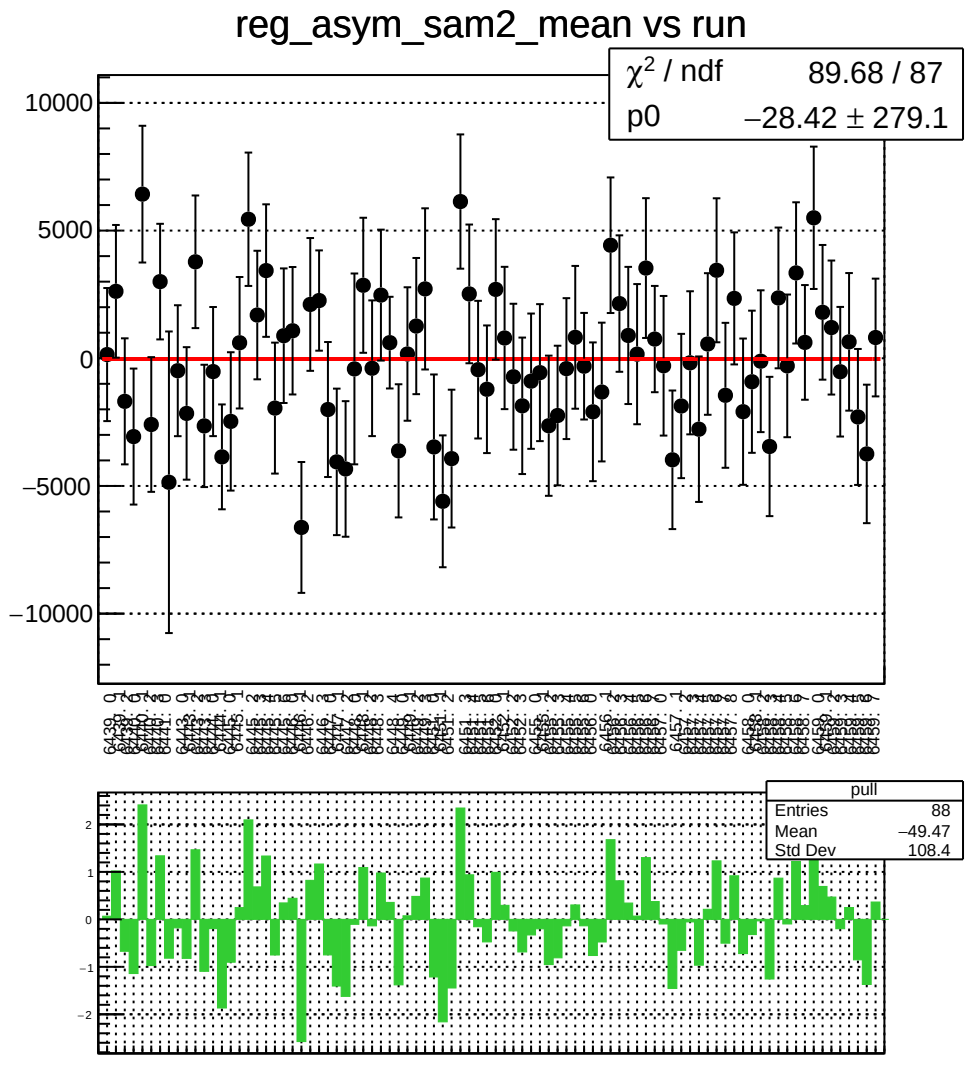

reg_asym_sam1_mean vs run
χ² / ndf 105.8 / 87
p0 −86.8 ± 81.86
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −206.5
Std Dev 269.9
2
1
0
−1
−2

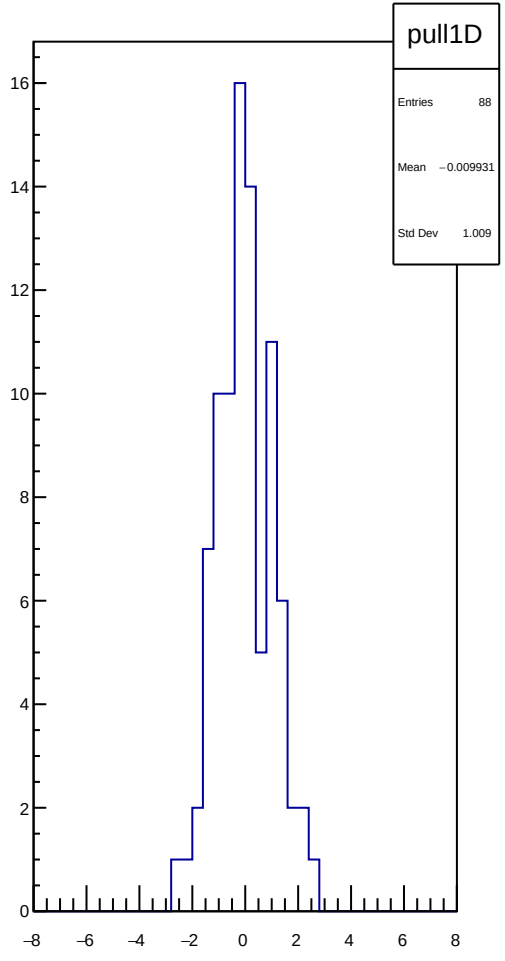

pull1D
Entries 88
Mean −0.01051
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

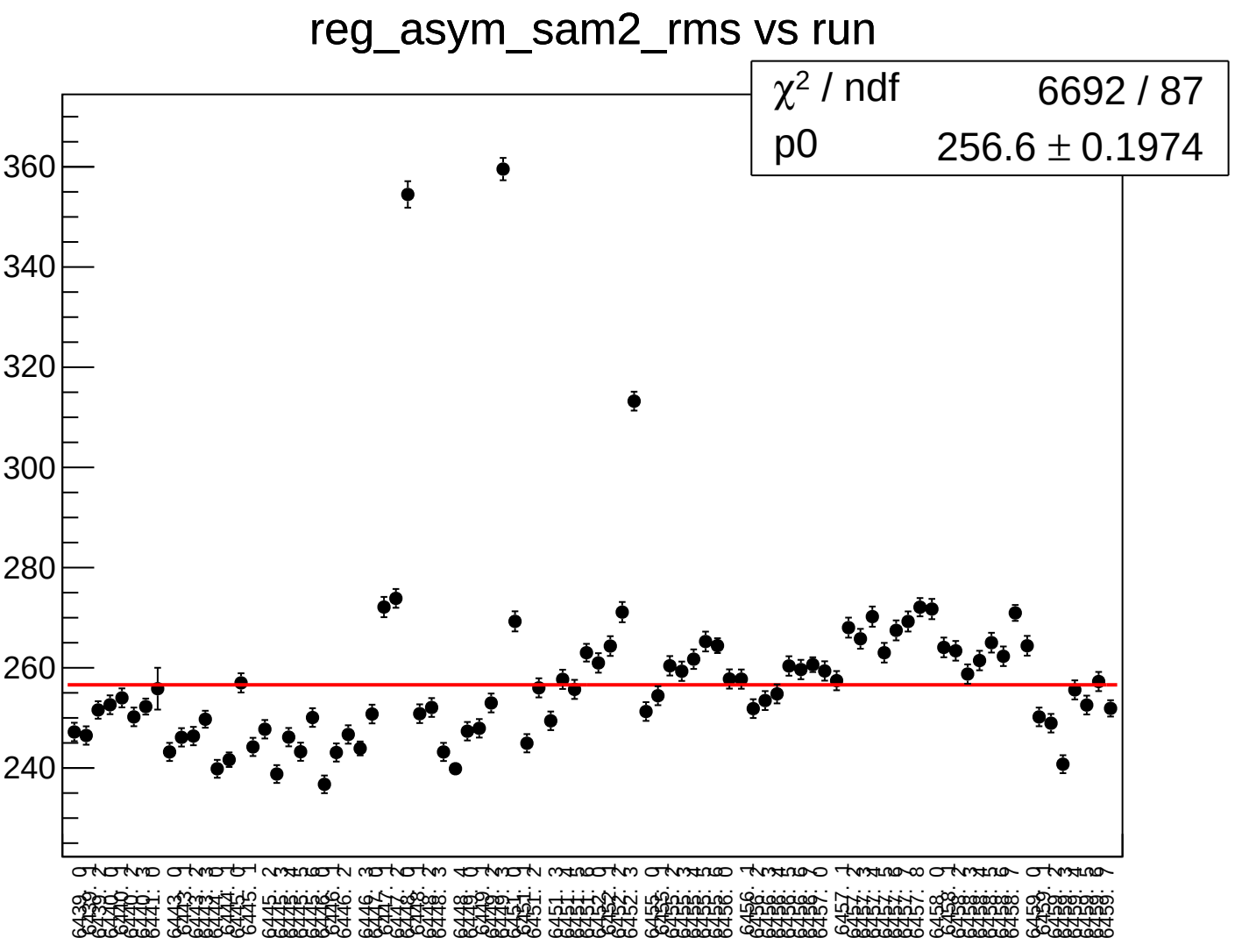

reg_asym_sam1_rms vs run
χ² / ndf 3279 / 87
p0 75.33 ± 0.05789
88
86
84
82
80
78
76
74
72
70
68

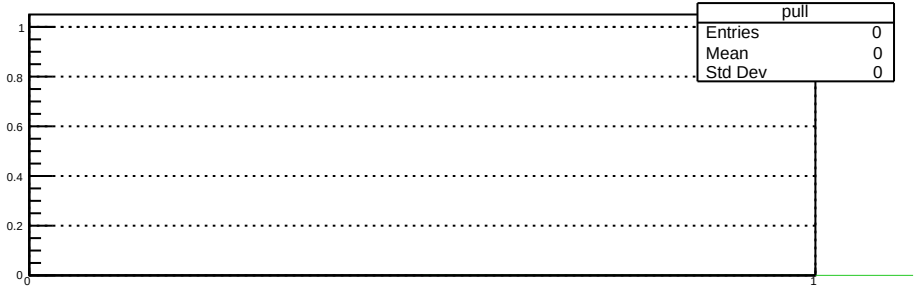

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

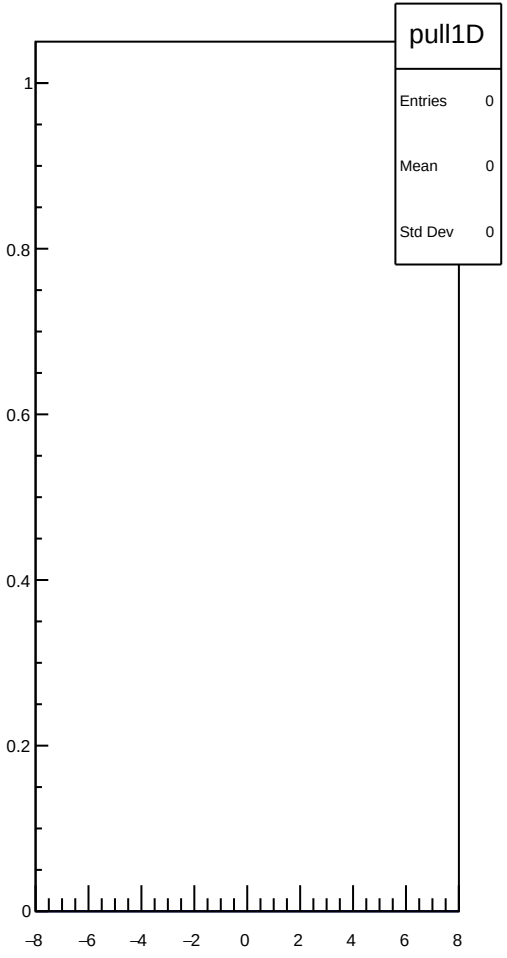

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

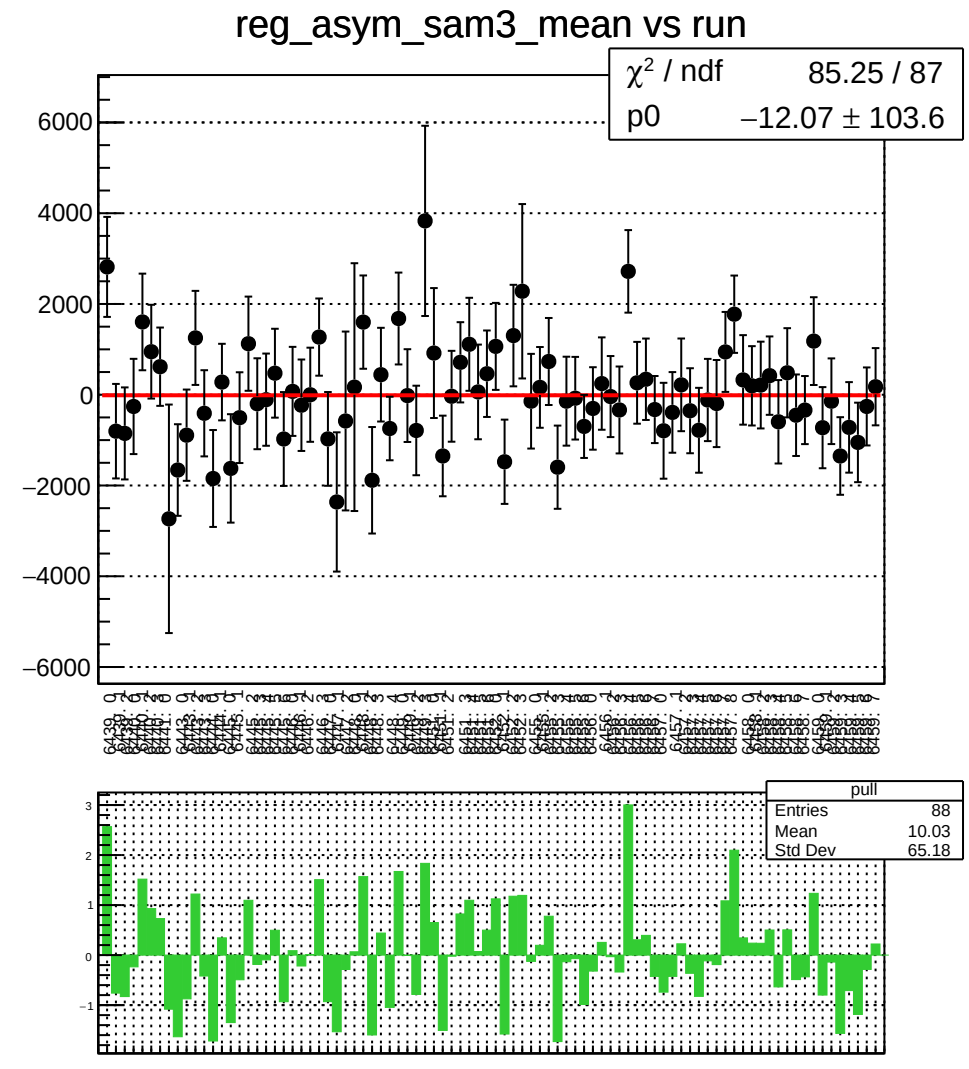

reg_asym_sam2_mean vs run
χ² / ndf 89.68 / 87
p0 −28.42 ± 279.1
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −49.47
Std Dev 108.4
2
1
0
−1
−2

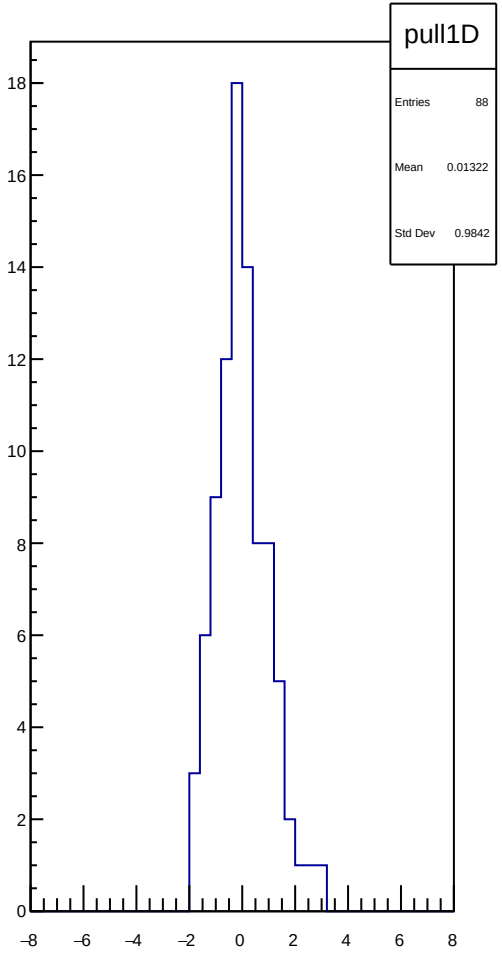

pull1D
Entries 88
Mean −0.009931
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

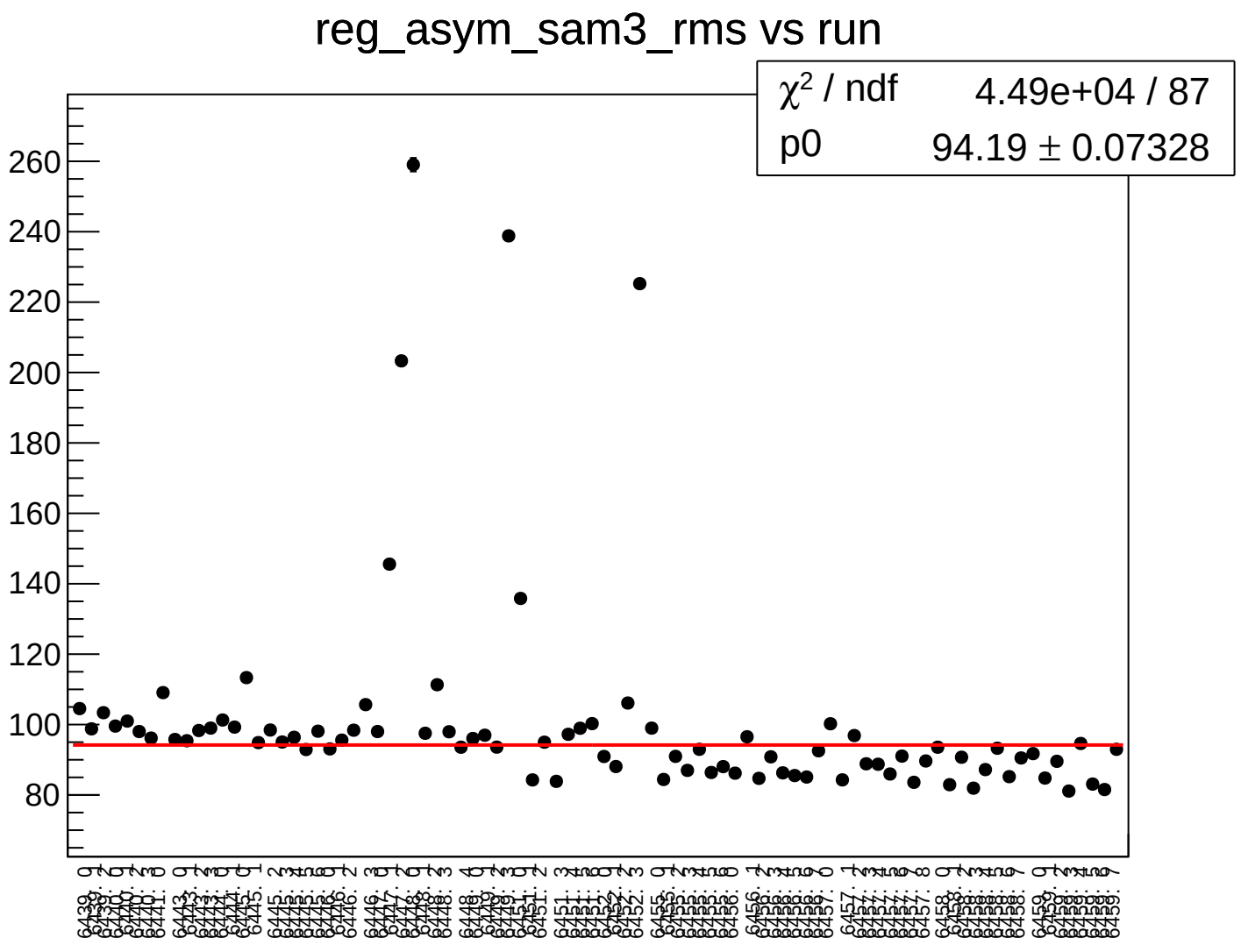

reg_asym_sam2_rms vs run
χ² / ndf 6692 / 87
p0 256.6 ± 0.1974
360
340
320
300
280
260
240

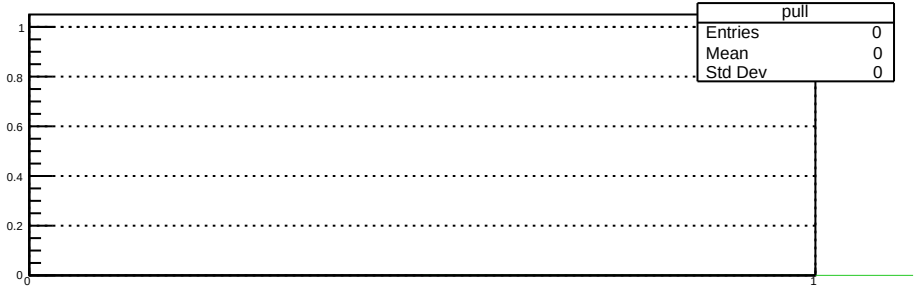

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

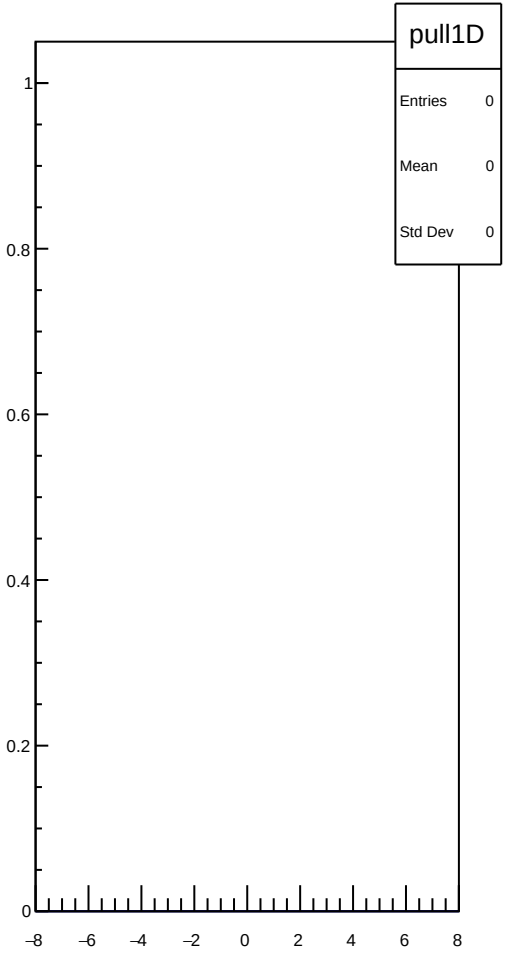

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

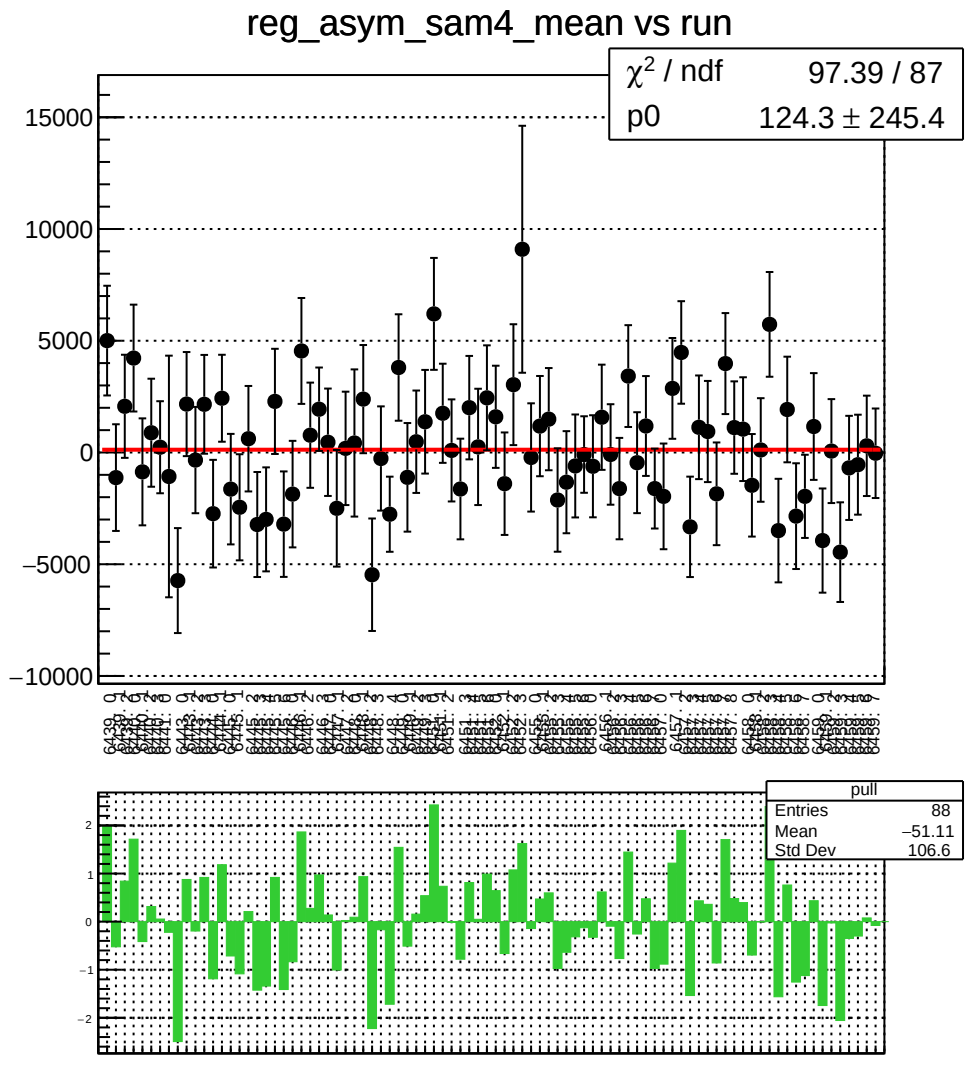

reg_asym_sam3_mean vs run
χ² / ndf 85.25 / 87
p0 −12.07 ± 103.6
pull
Entries 88
Mean 10.03
Std Dev 65.18

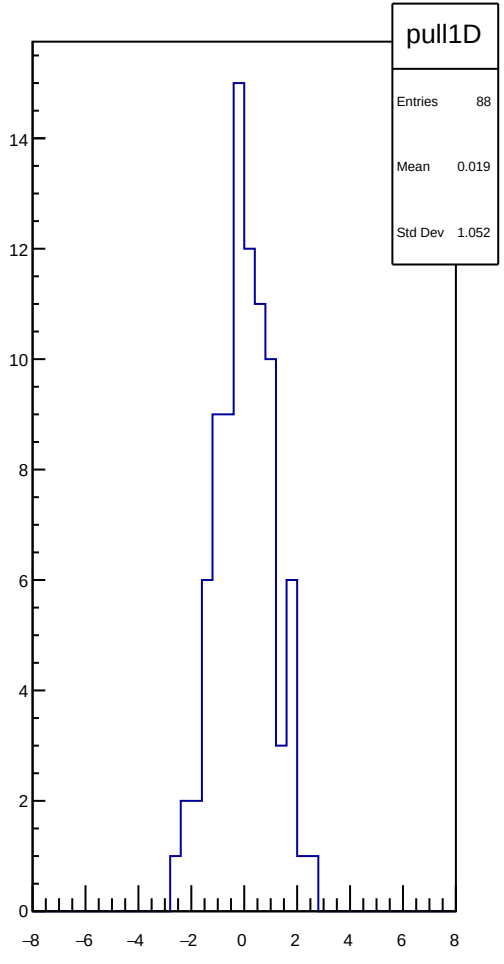

pull1D
Entries 88
Mean 0.01322
Std Dev 0.9842

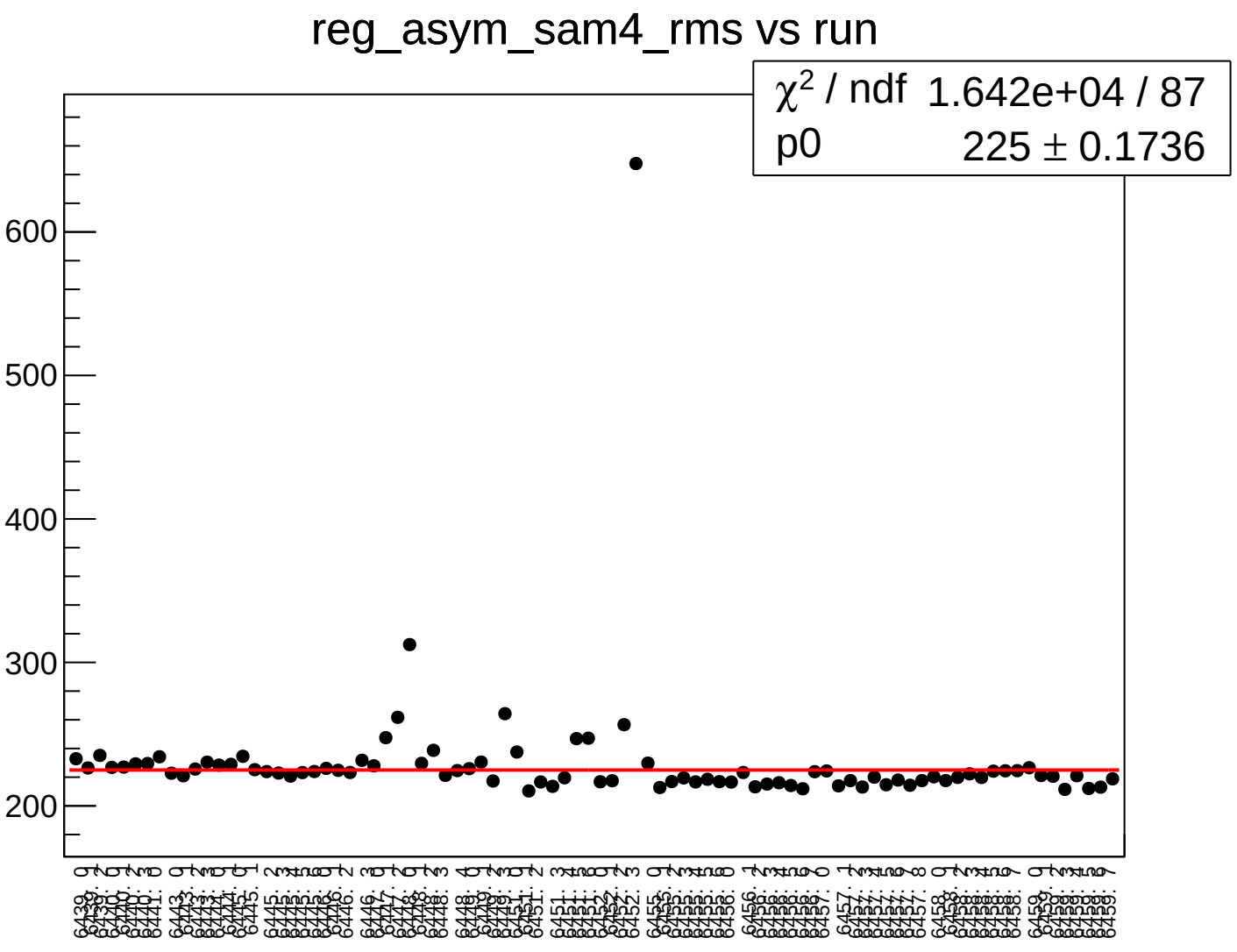

reg_asym_sam3_rms vs run
χ² / ndf 4.49e+04 / 87
p0 94.19 ± 0.07328
260
240
220
200
180
160
140
120
100
80

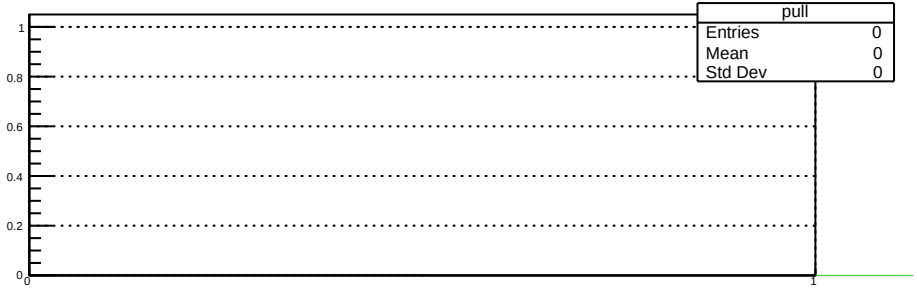

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

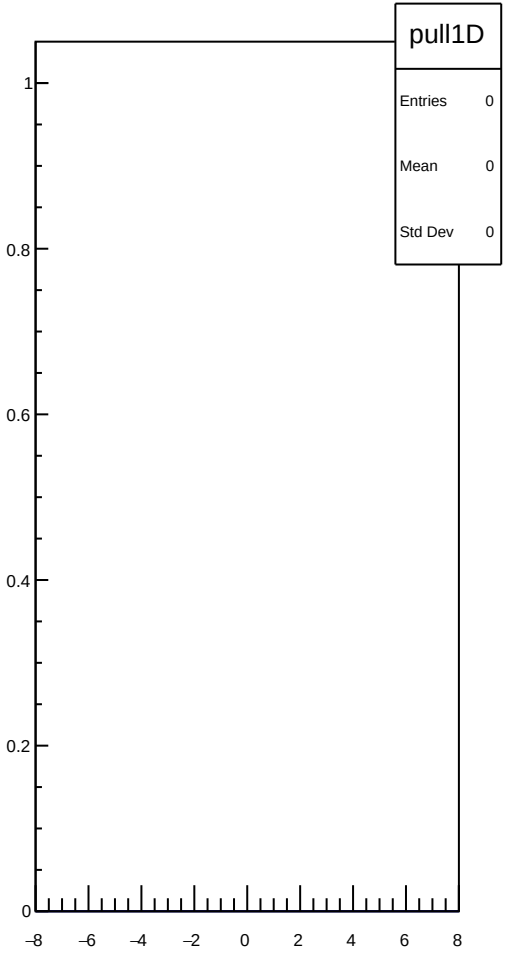

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

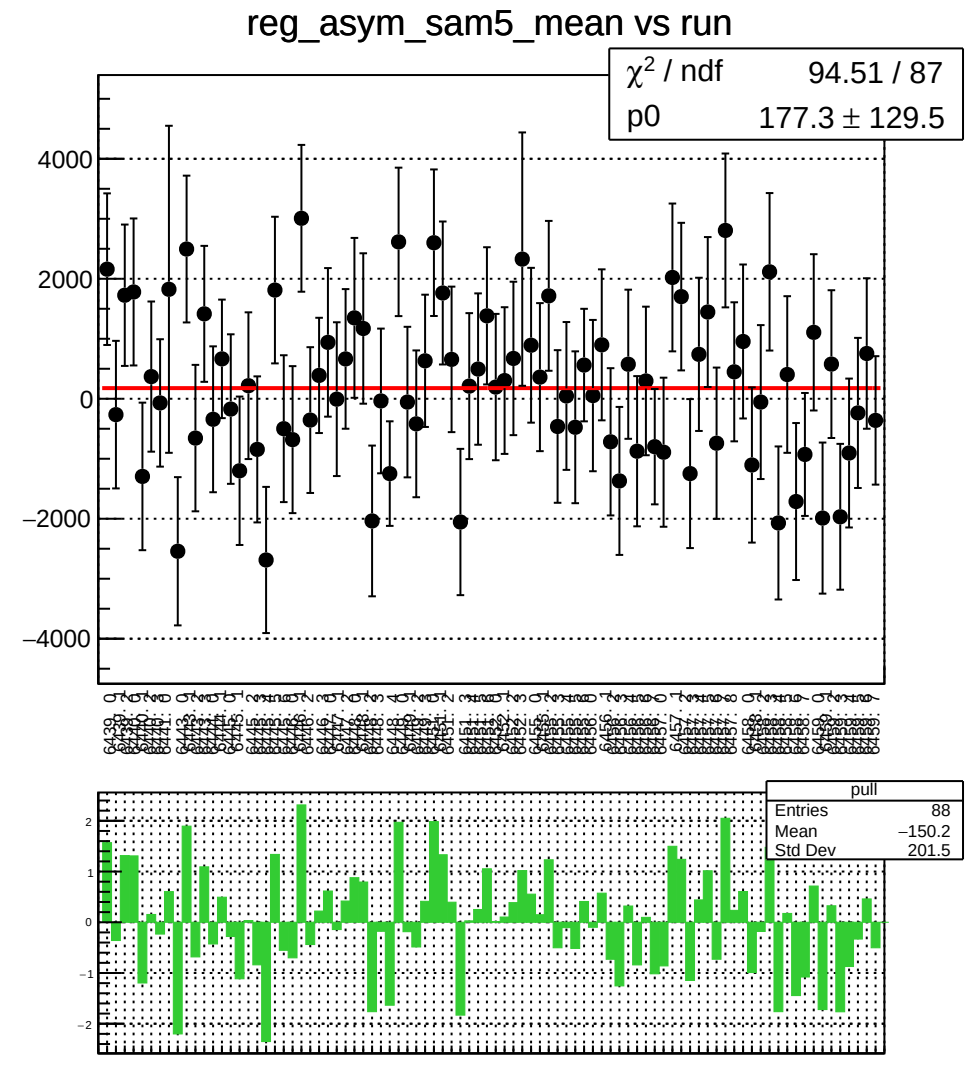

reg_asym_sam4_mean vs run
χ² / ndf 97.39 / 87
p0 124.3 ± 245.4
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −51.11
Std Dev 106.6
2
1
0
−1
−2

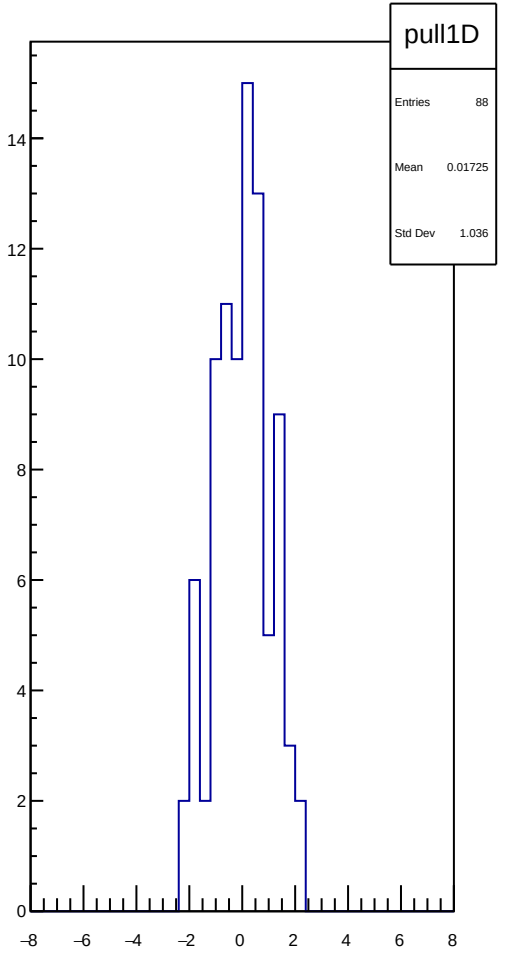

pull1D
Entries 88
Mean 0.019
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

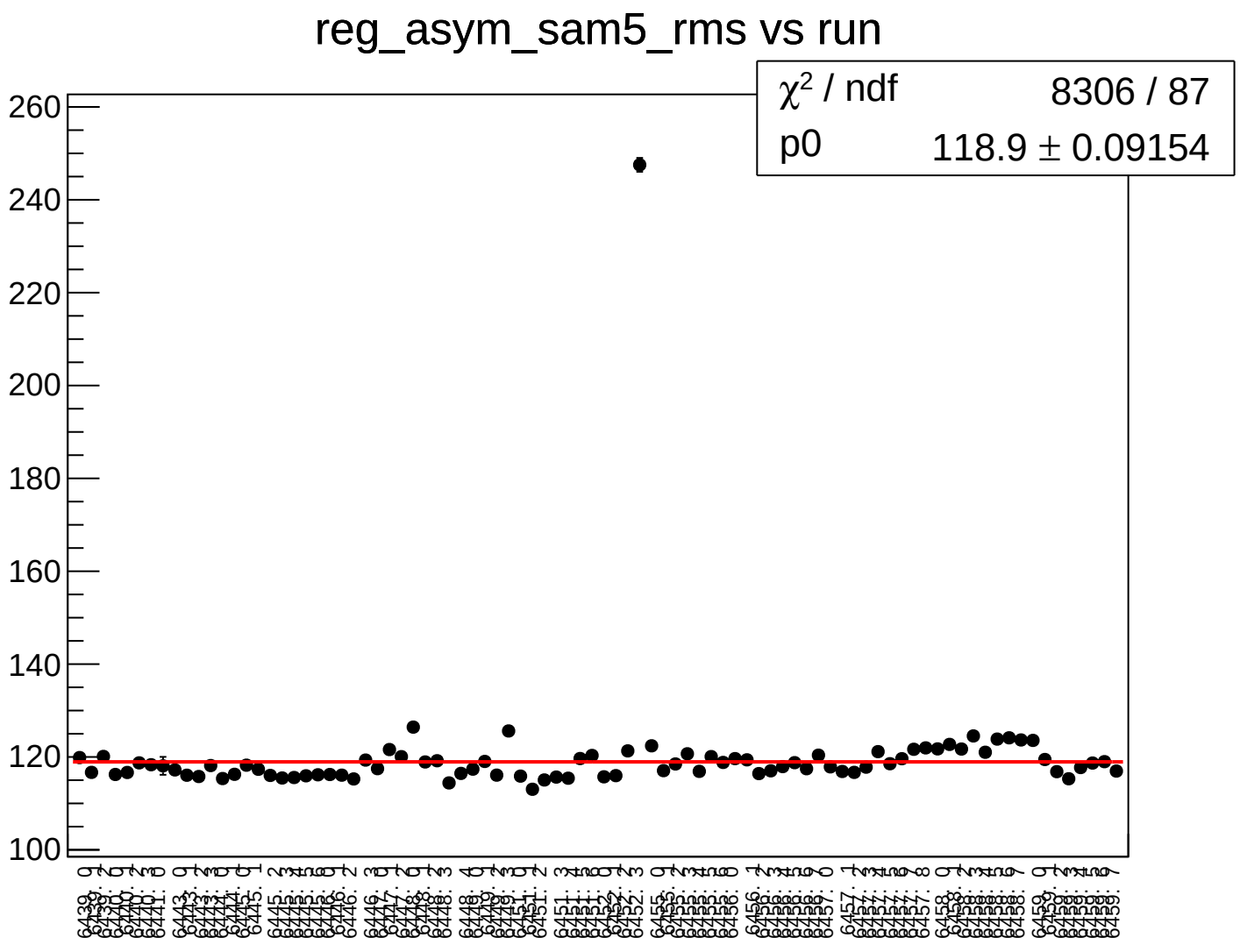

reg_asym_sam4_rms vs run
χ^2 / ndf 1.642e+04 / 87
p0 225 ± 0.1736
600
500
400
300
200

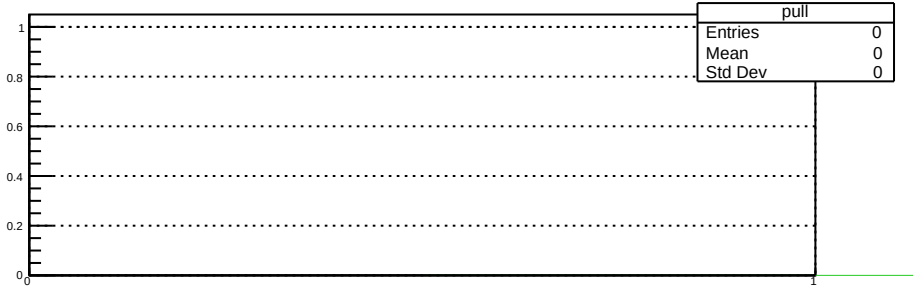

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

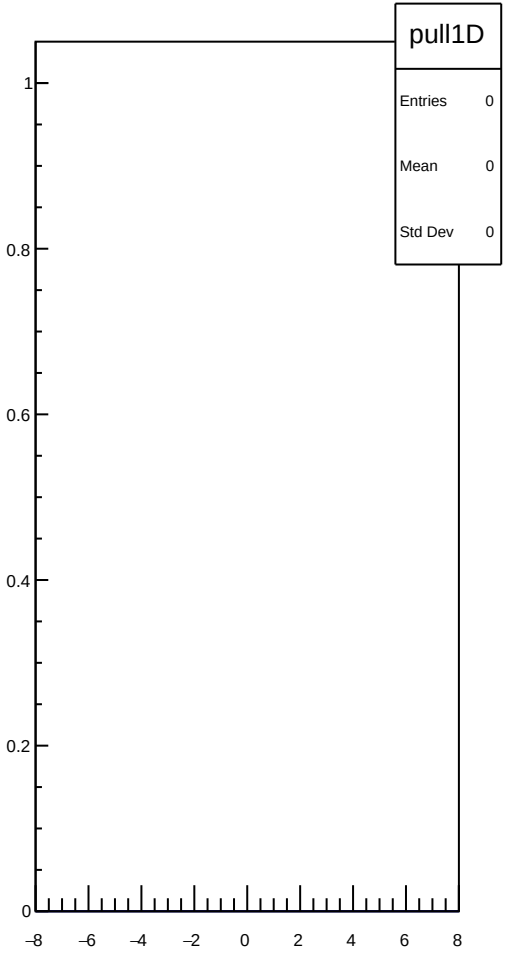

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

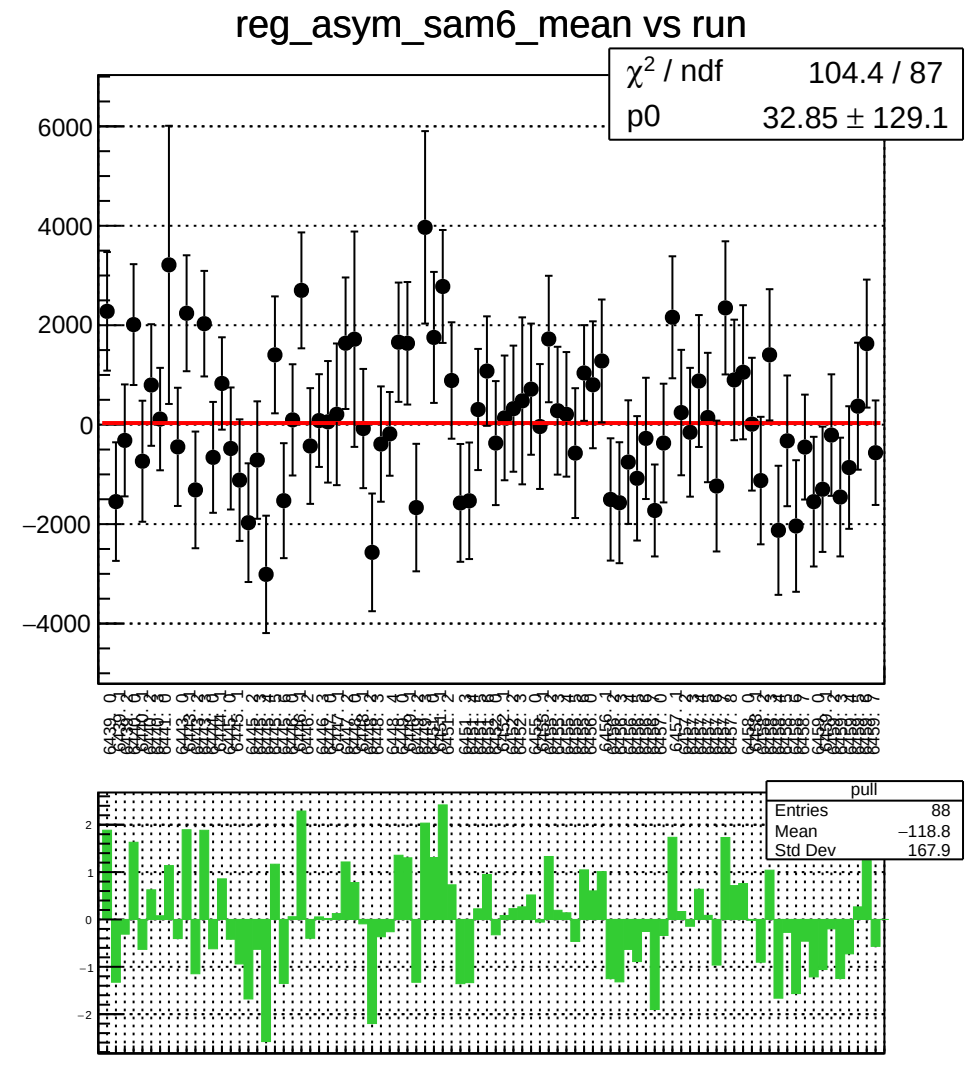

reg_asym_sam5_mean vs run
χ² / ndf 94.51 / 87
p0 177.3 ± 129.5
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −150.2
Std Dev 201.5
2
1
0
−1
−2

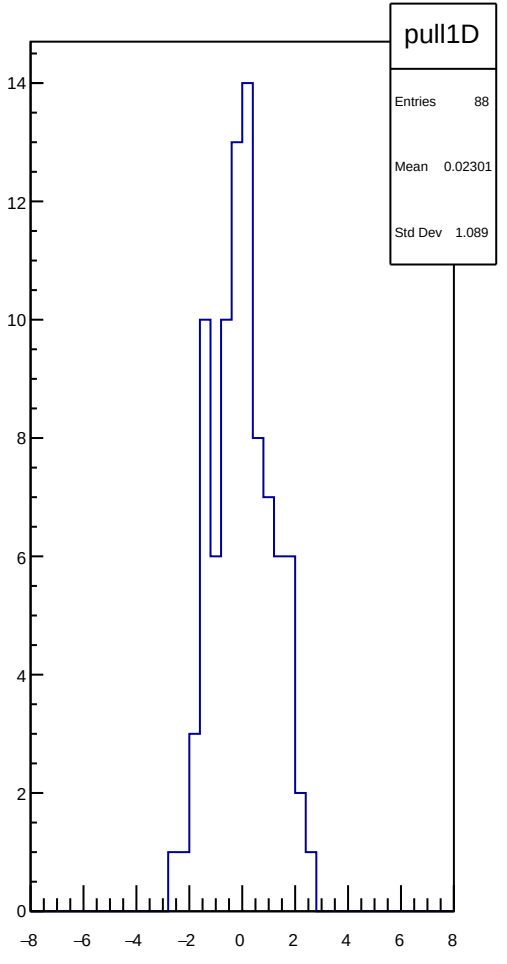

pull1D
Entries 88
Mean 0.01725
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

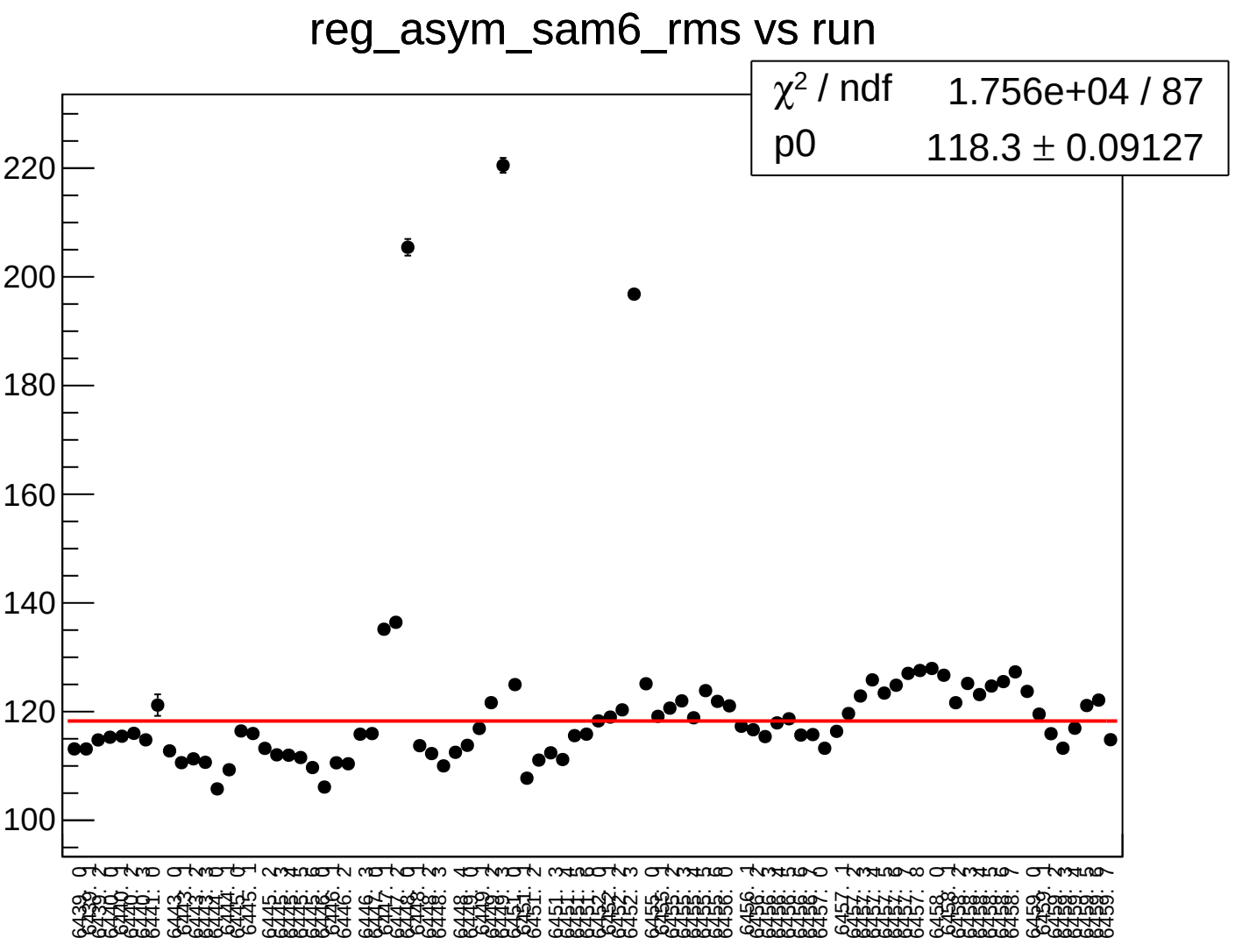

reg_asym_sam5_rms vs run
χ² / ndf 8306 / 87
p0 118.9 ± 0.09154
260
240
220
200
180
160
140
120
100

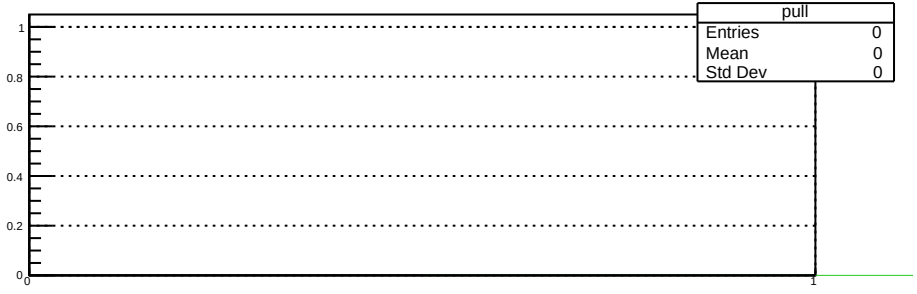

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

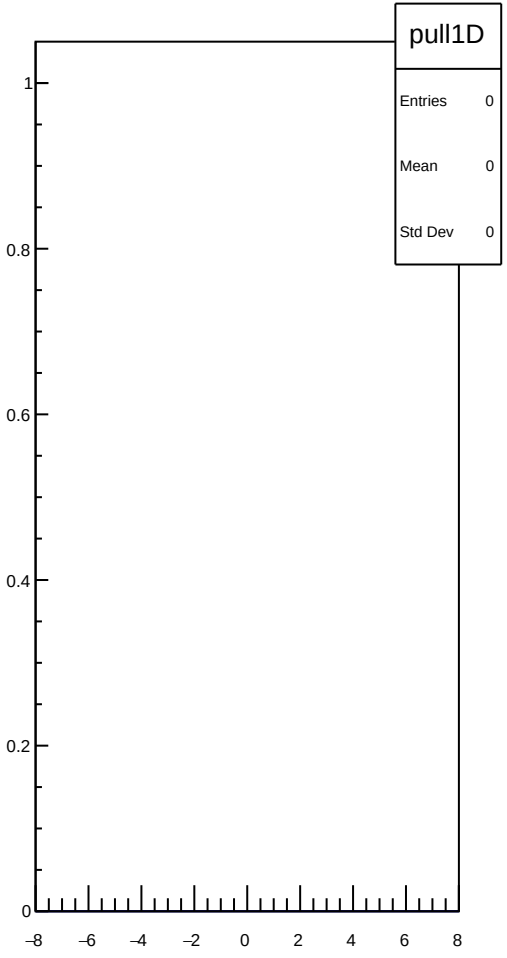

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

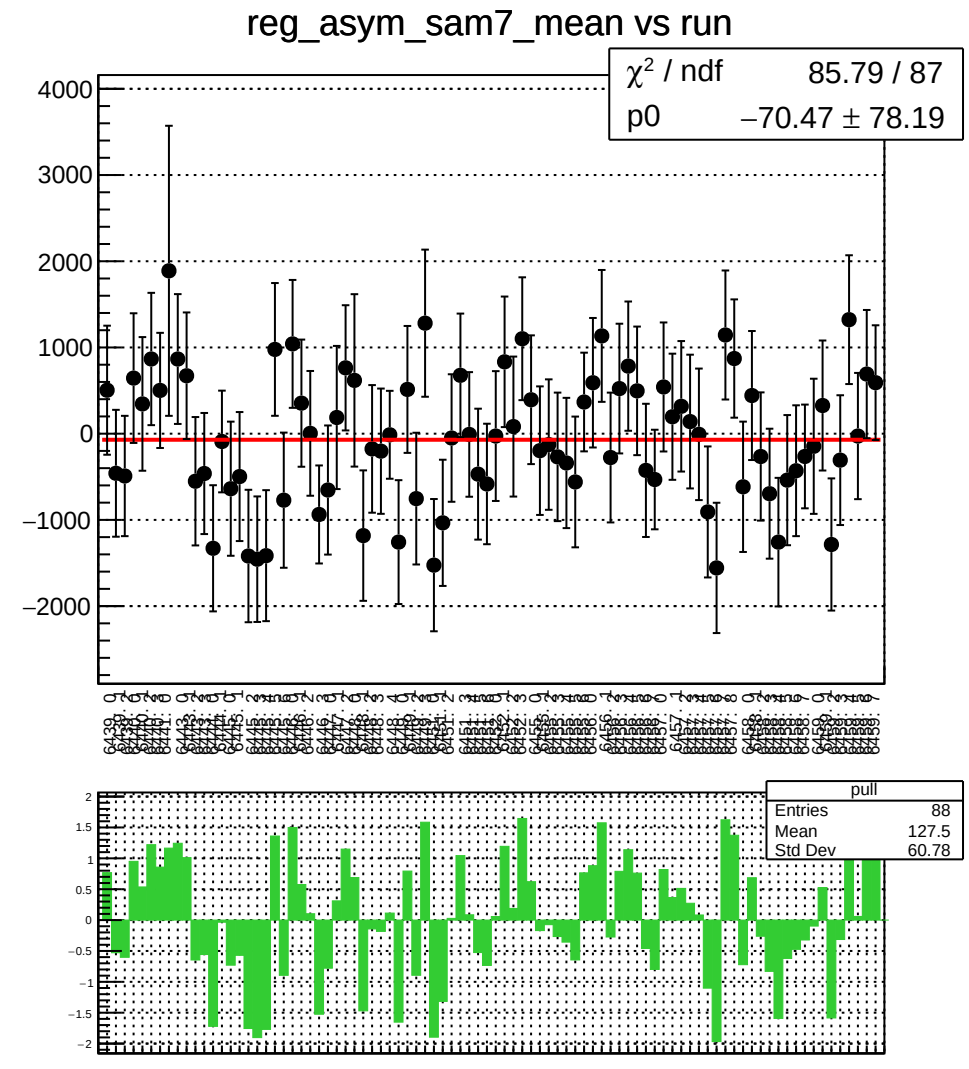

reg_asym_sam6_mean vs run
χ² / ndf 104.4 / 87
p0 32.85 ± 129.1
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −118.8
Std Dev 167.9
2
1
0
−1
−2

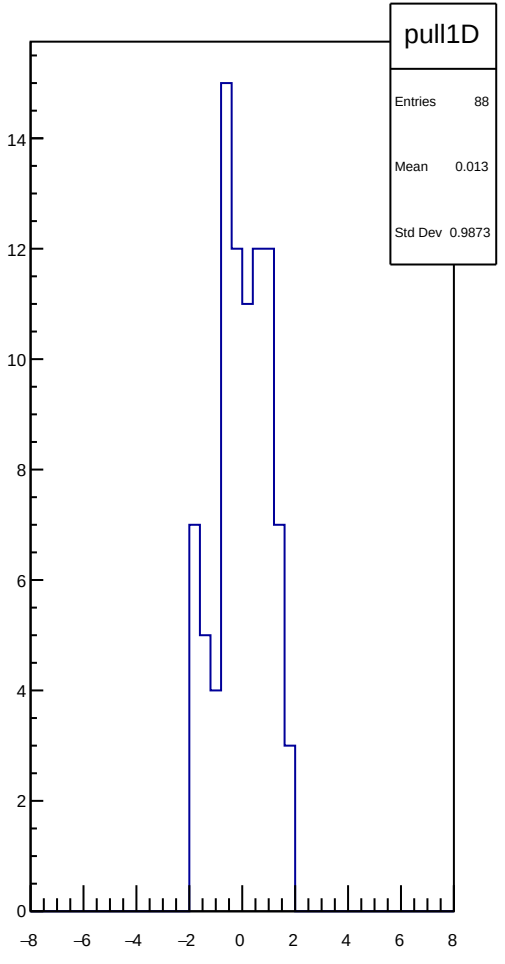

pull1D
Entries 88
Mean 0.02301
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

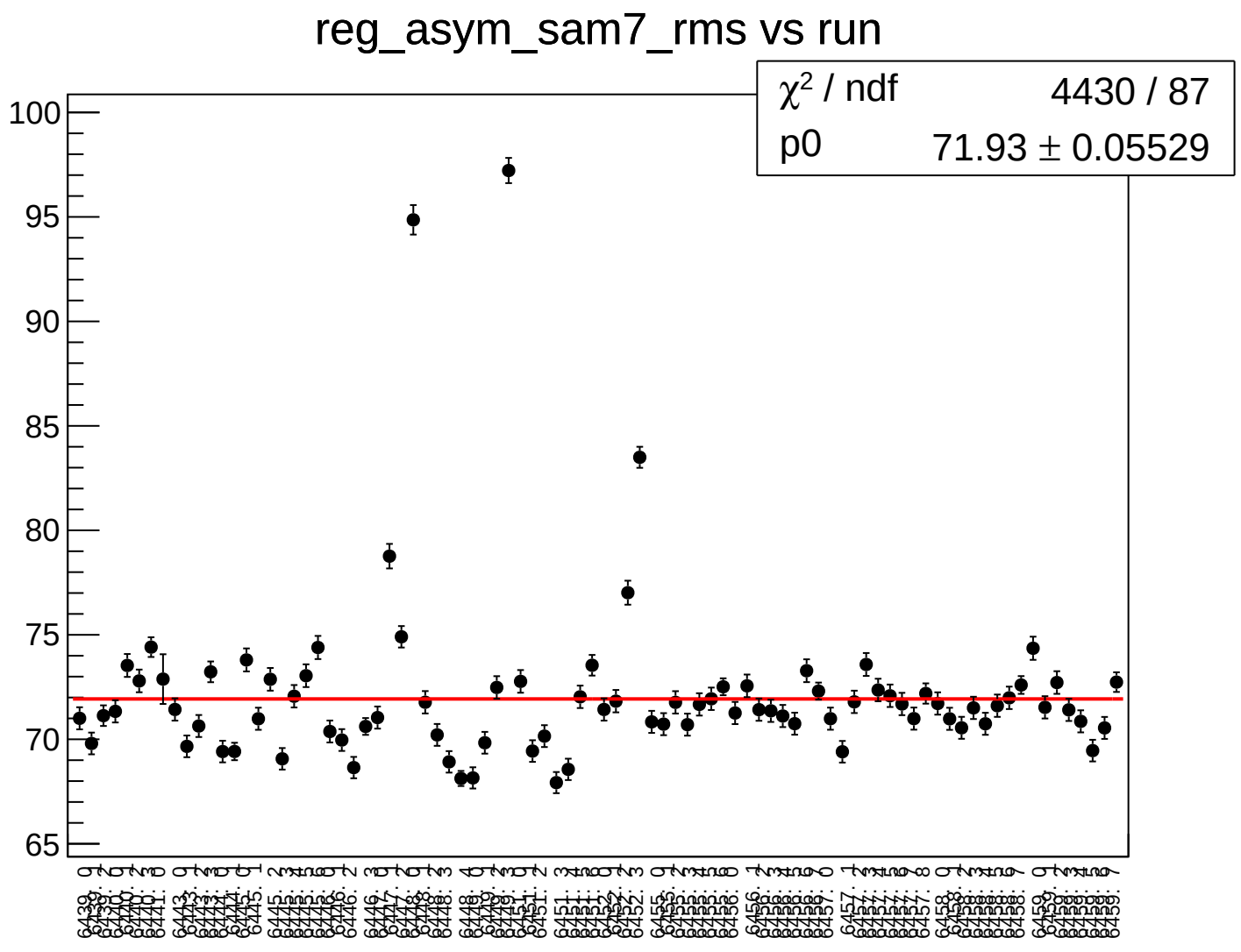

reg_asym_sam6_rms vs run
χ² / ndf 1.756e+04 / 87
p0 118.3 ± 0.09127
220
200
180
160
140
120
100

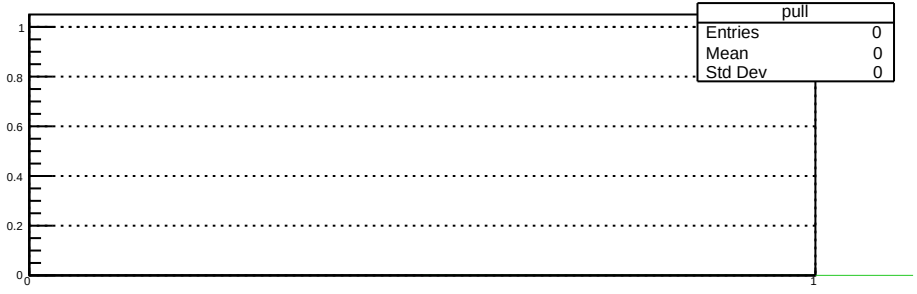

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

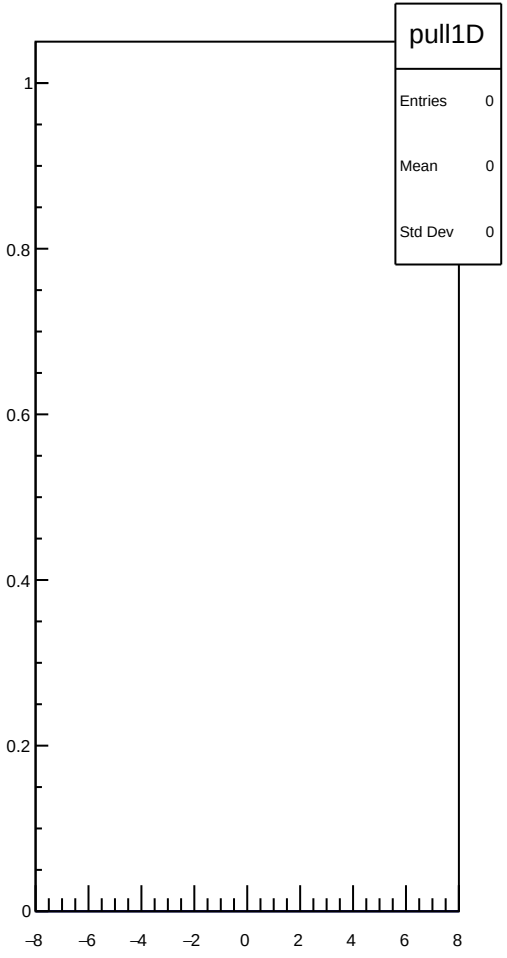

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

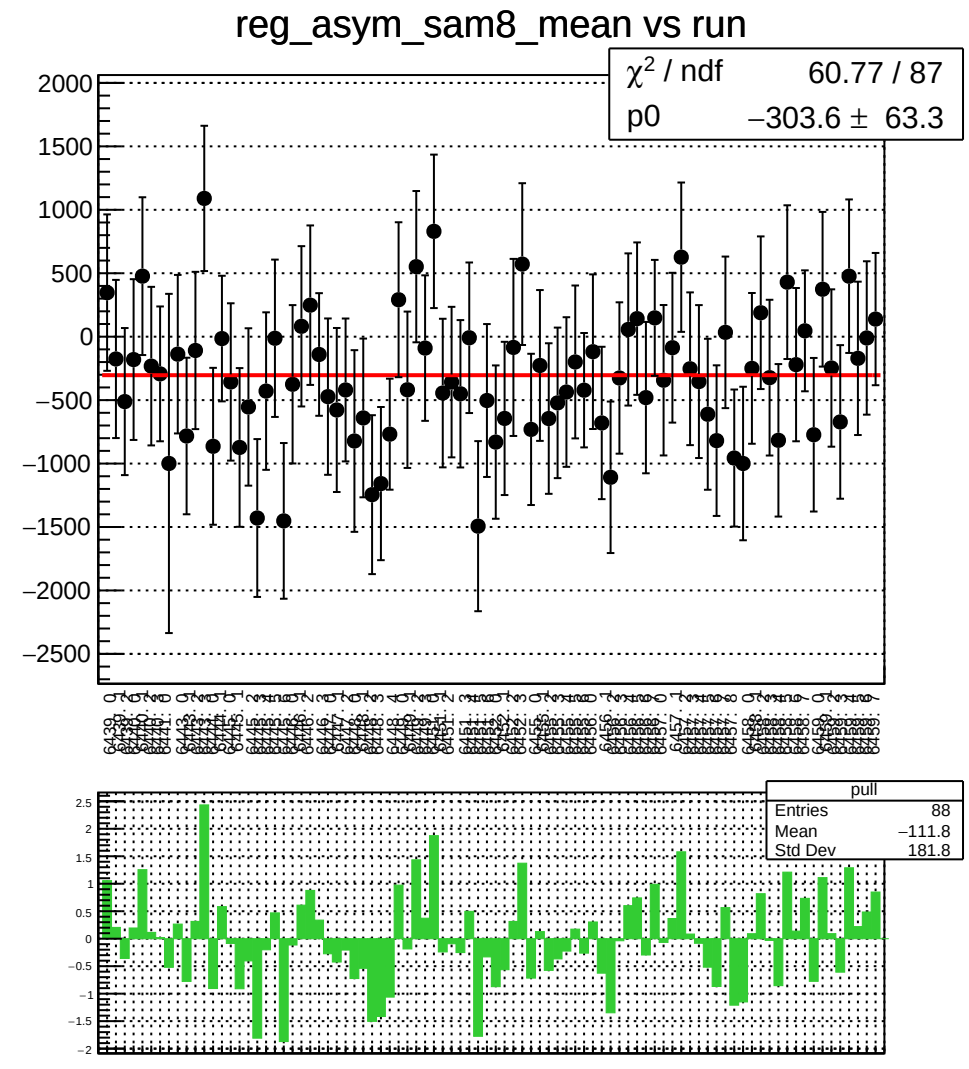

reg_asym_sam7_mean vs run
χ² / ndf 85.79 / 87
p0 −70.47 ± 78.19
pull
Entries 88
Mean 127.5
Std Dev 60.78

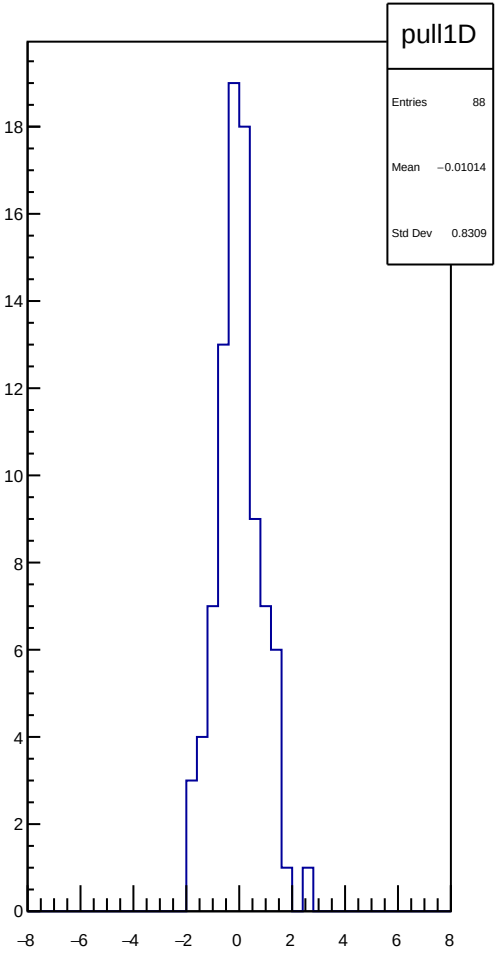

pull1D
Entries 88
Mean 0.013
Std Dev 0.9873

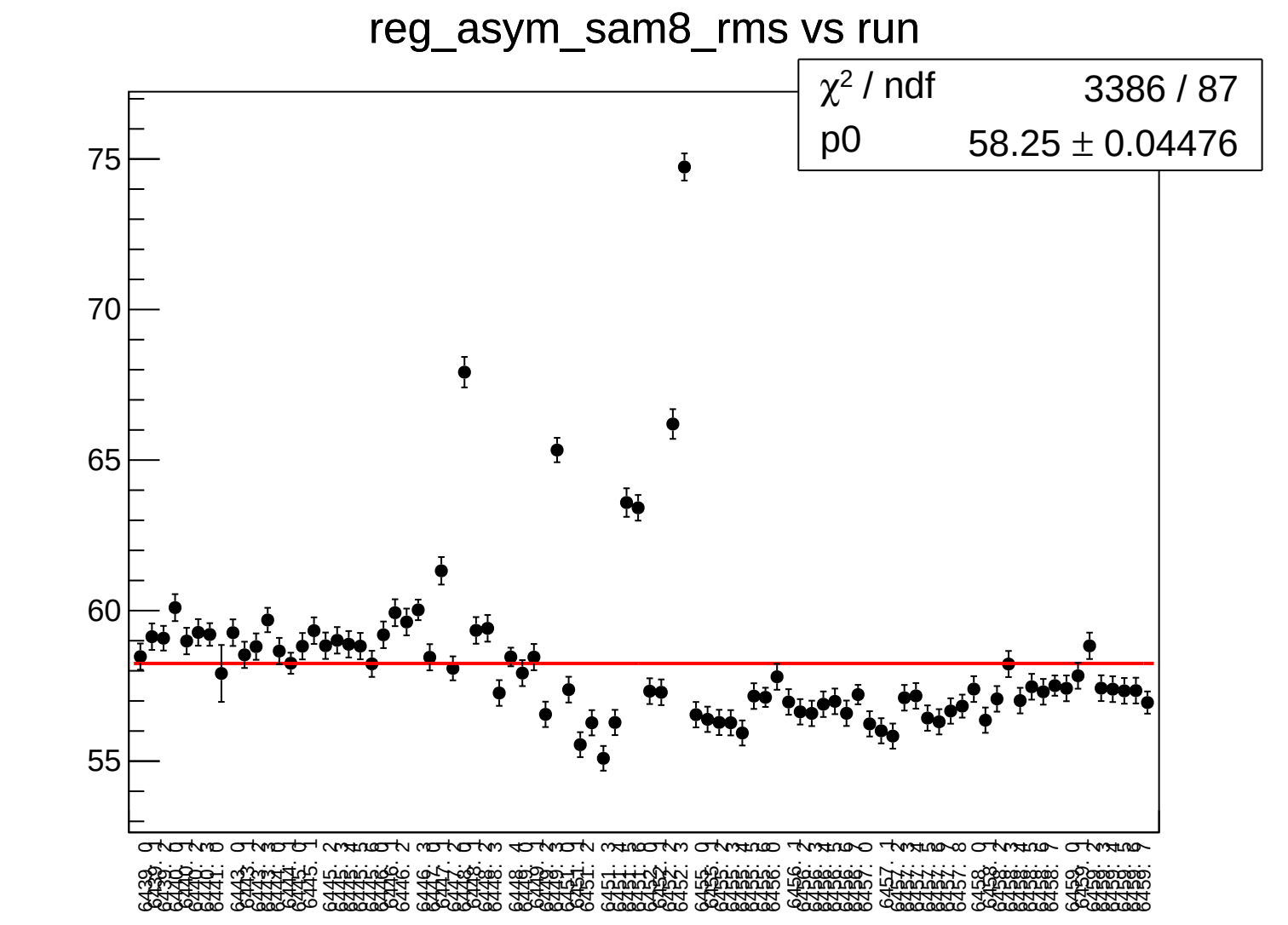

reg_asym_sam7_rms vs run
χ^2 / ndf 4430 / 87
p0 71.93 ± 0.05529
100
95
90
85
80
75
70
65

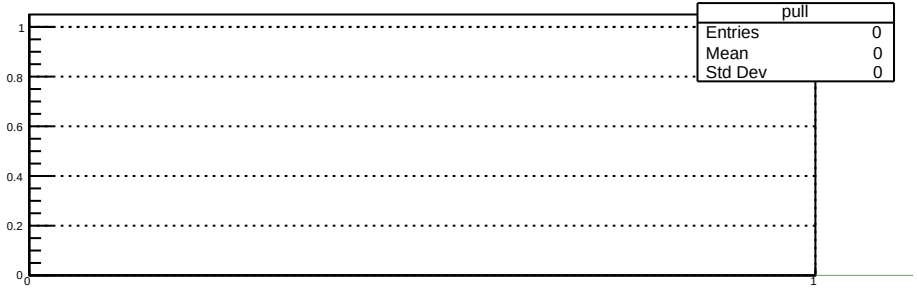

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

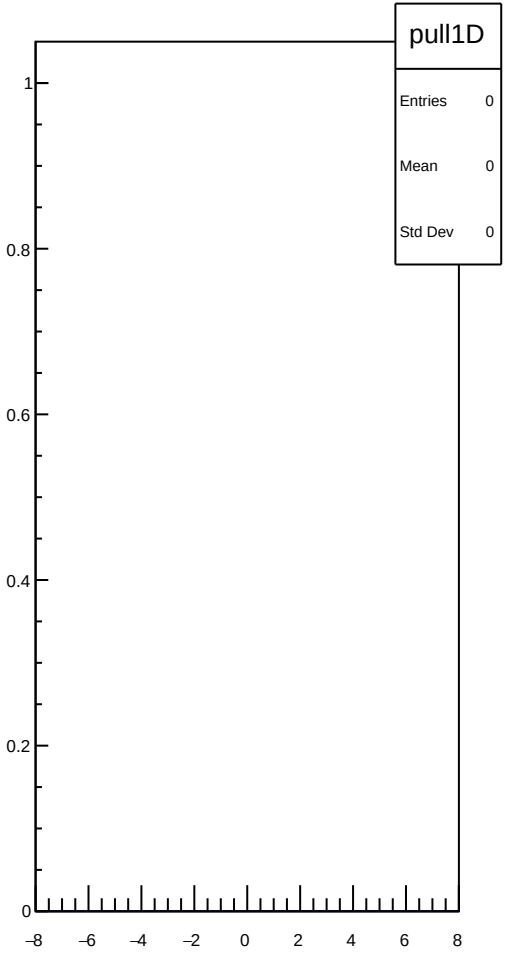

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

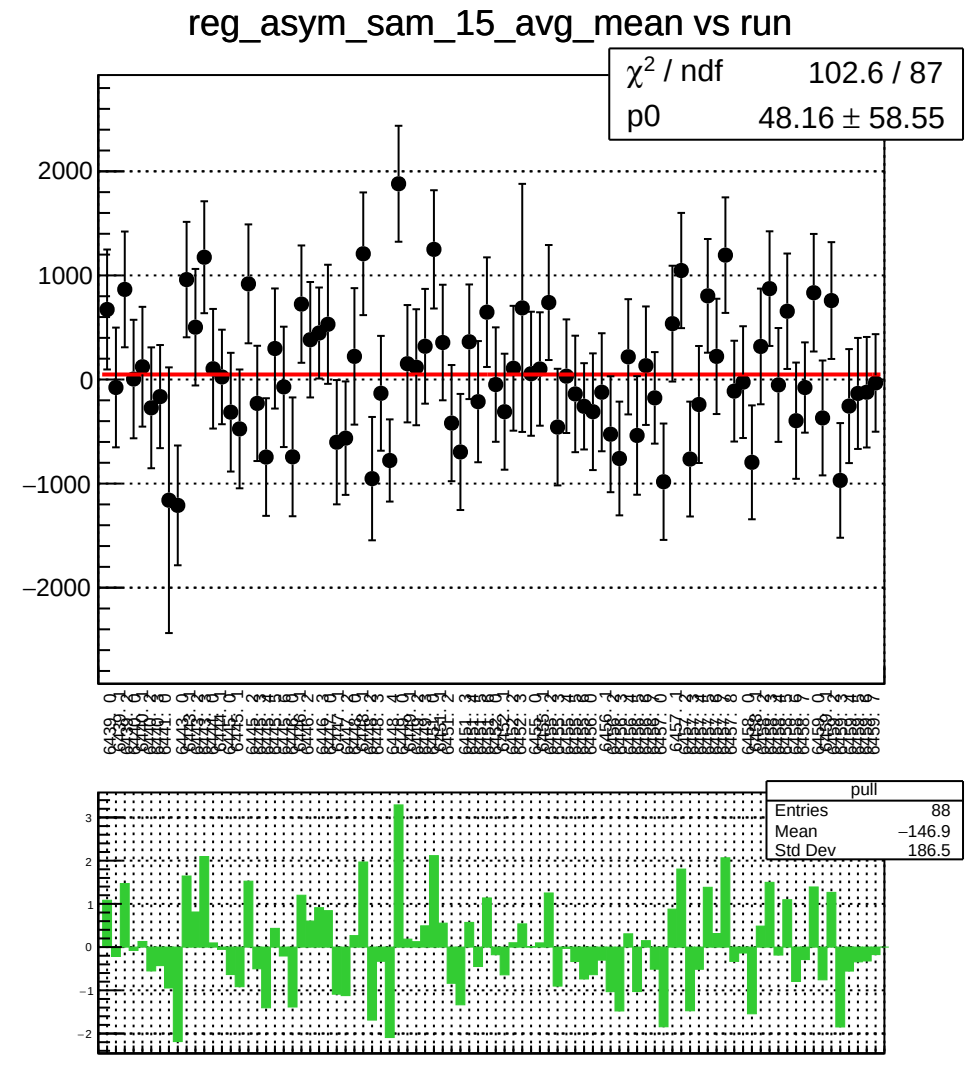

reg_asym_sam8_mean vs run
χ² / ndf 60.77 / 87
p0 −303.6 ± 63.3
pull
Entries 88
Mean −111.8
Std Dev 181.8

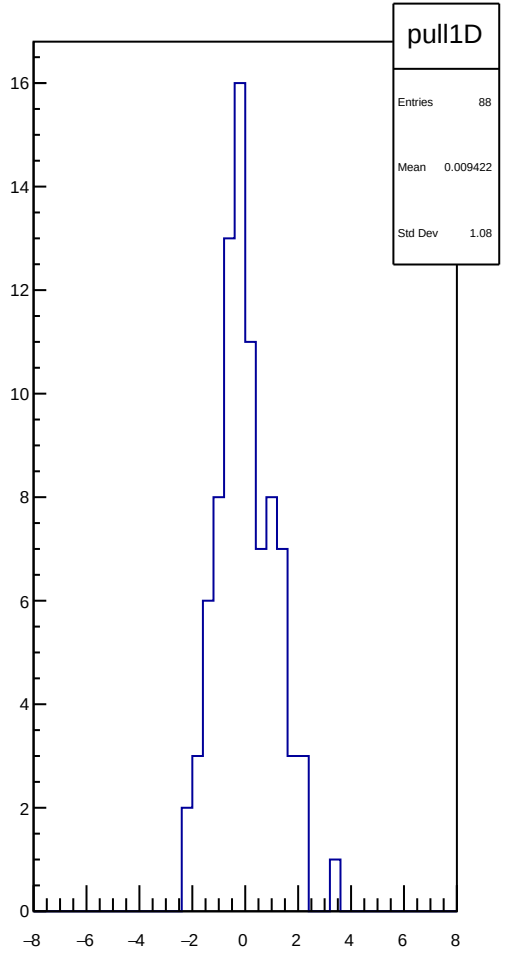

pull1D
Entries 88
Mean −0.01014
Std Dev 0.8309

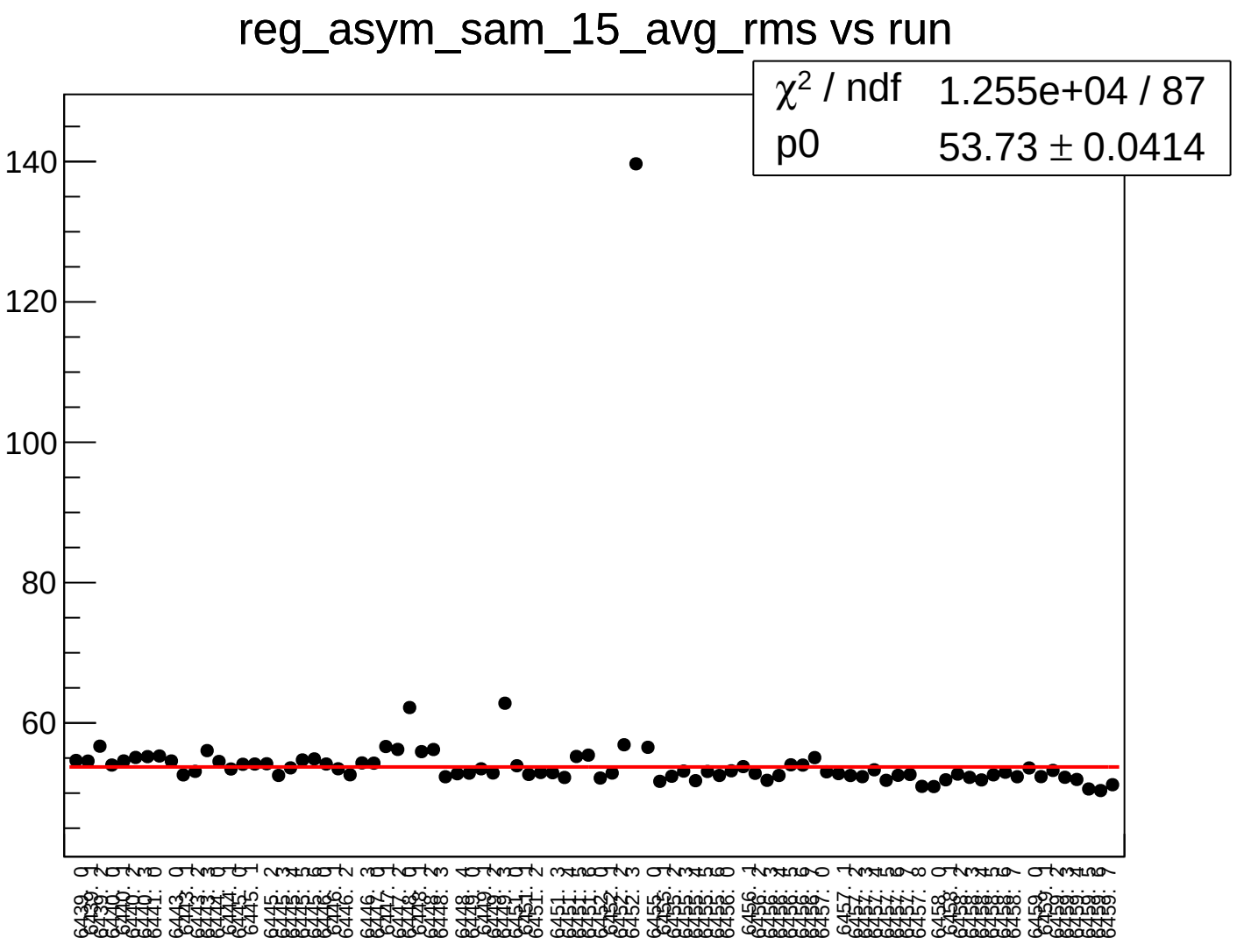

reg_asym_sam8_rms vs run
χ^2 / ndf 3386 / 87
p0 58.25 ± 0.04476
75
70
65
60
55

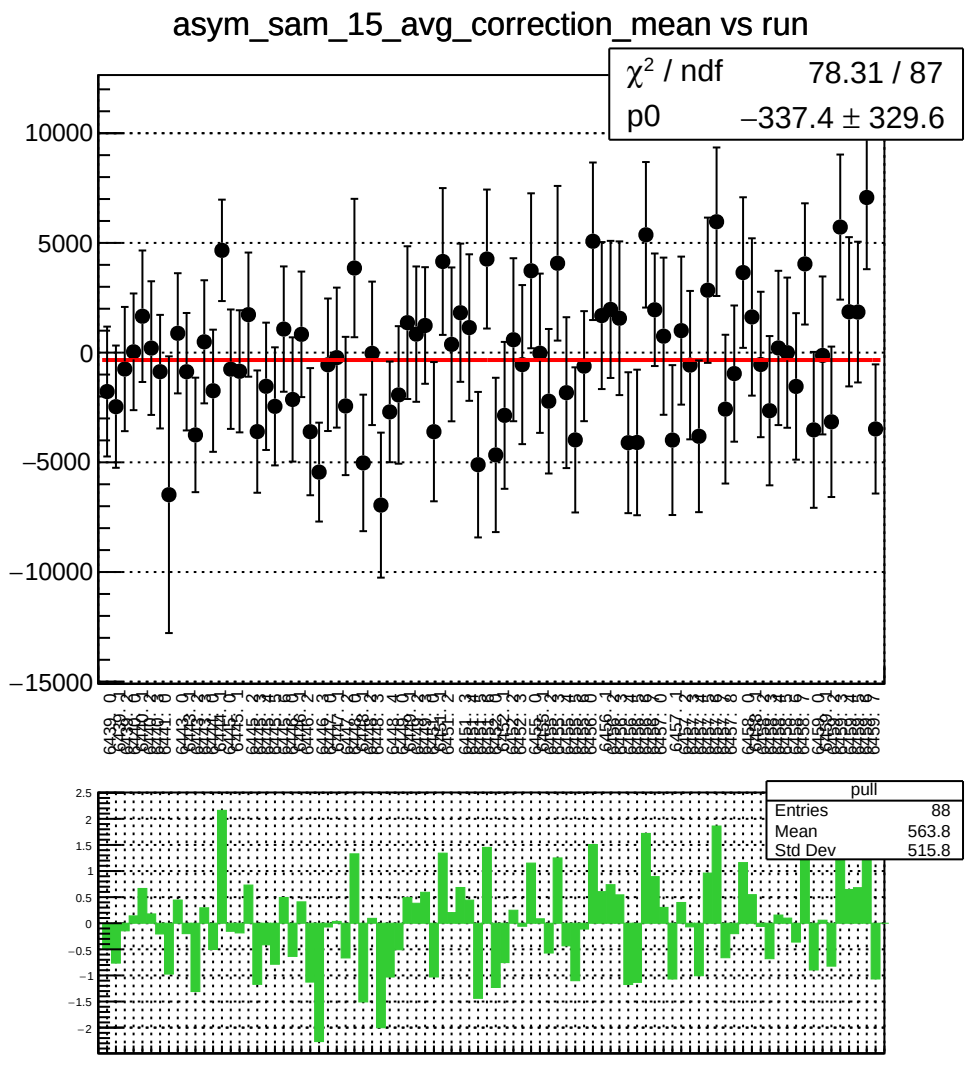

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

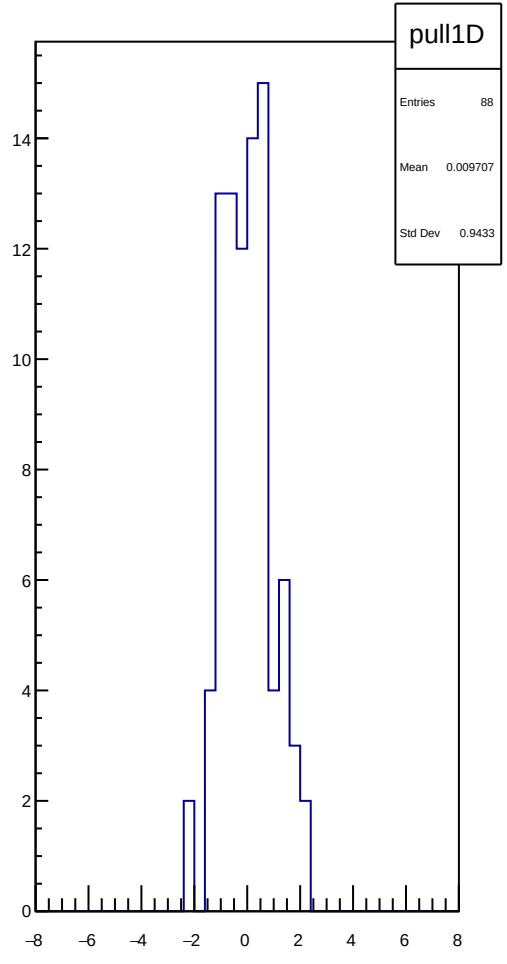

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

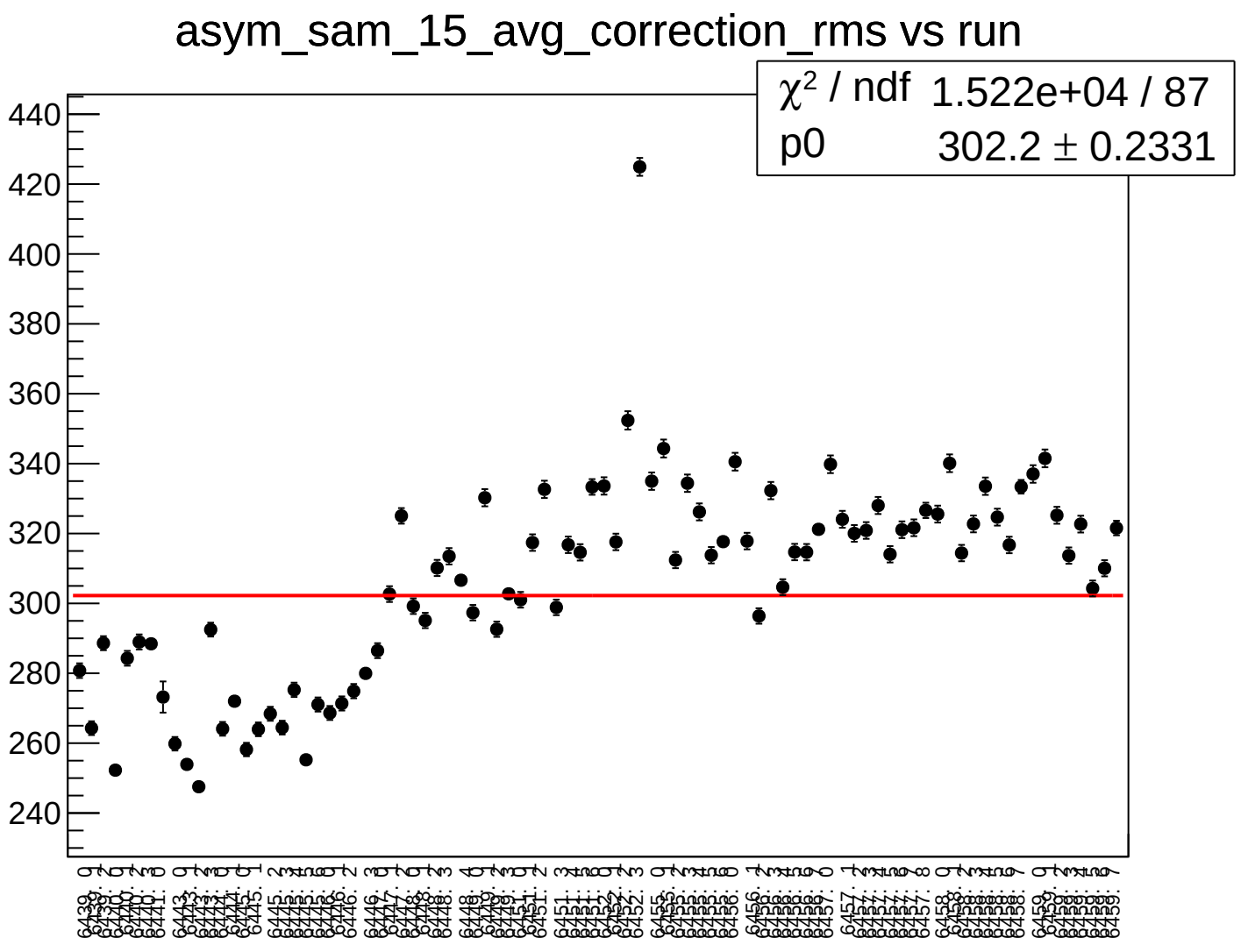

reg_asym_sam_15_avg_mean vs run
χ² / ndf 102.6 / 87
p0 48.16 ± 58.55
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −146.9
Std Dev 186.5
3
2
1
0
−1
−2

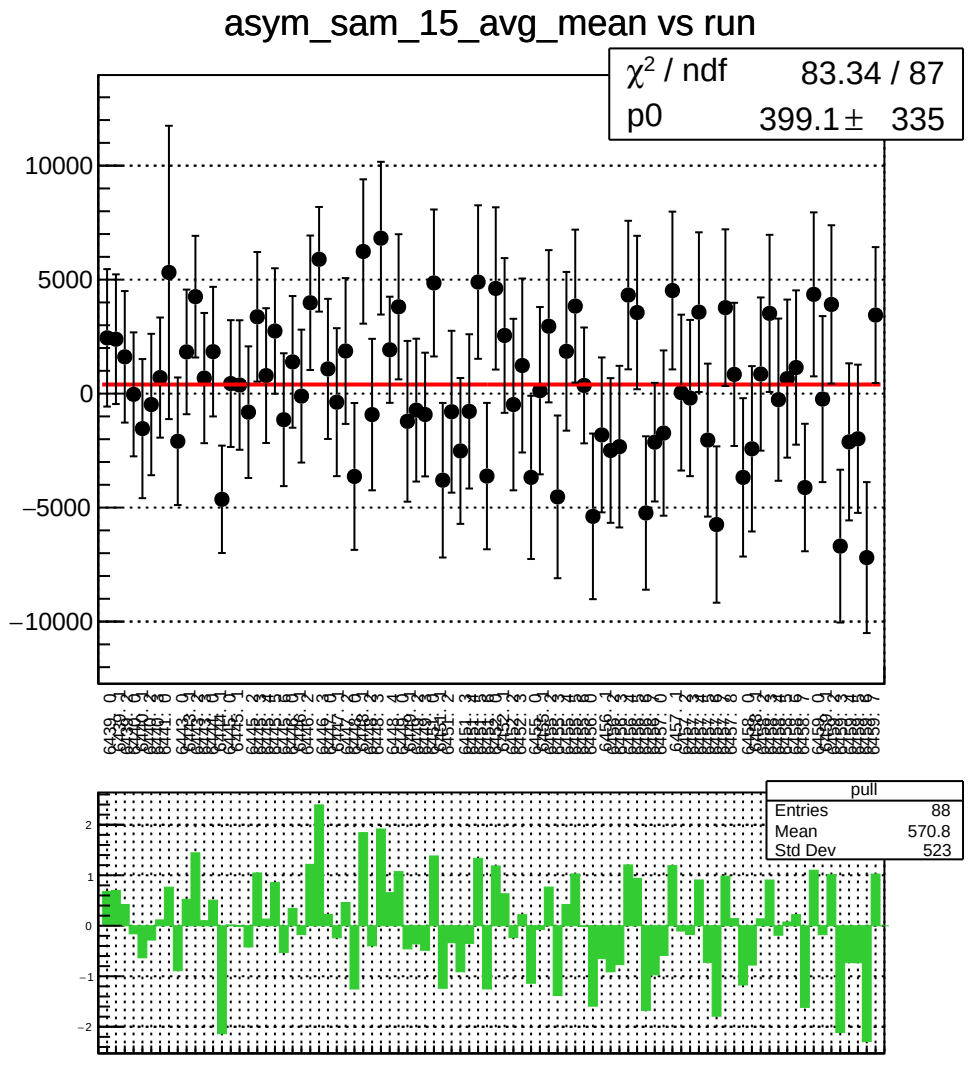

pull1D
Entries 88
Mean 0.009422
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

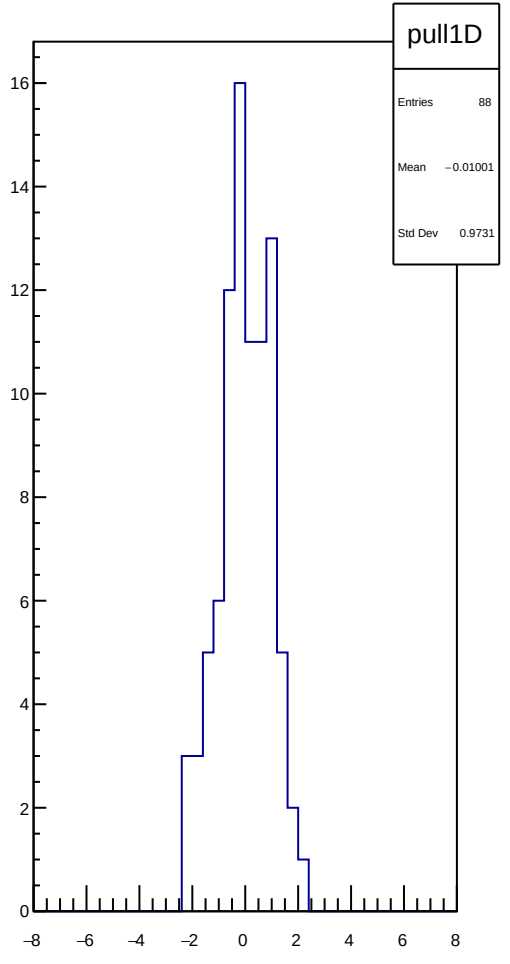

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.255e+04 / 87
p0 53.73 ± 0.0414
140
120
100
80
60

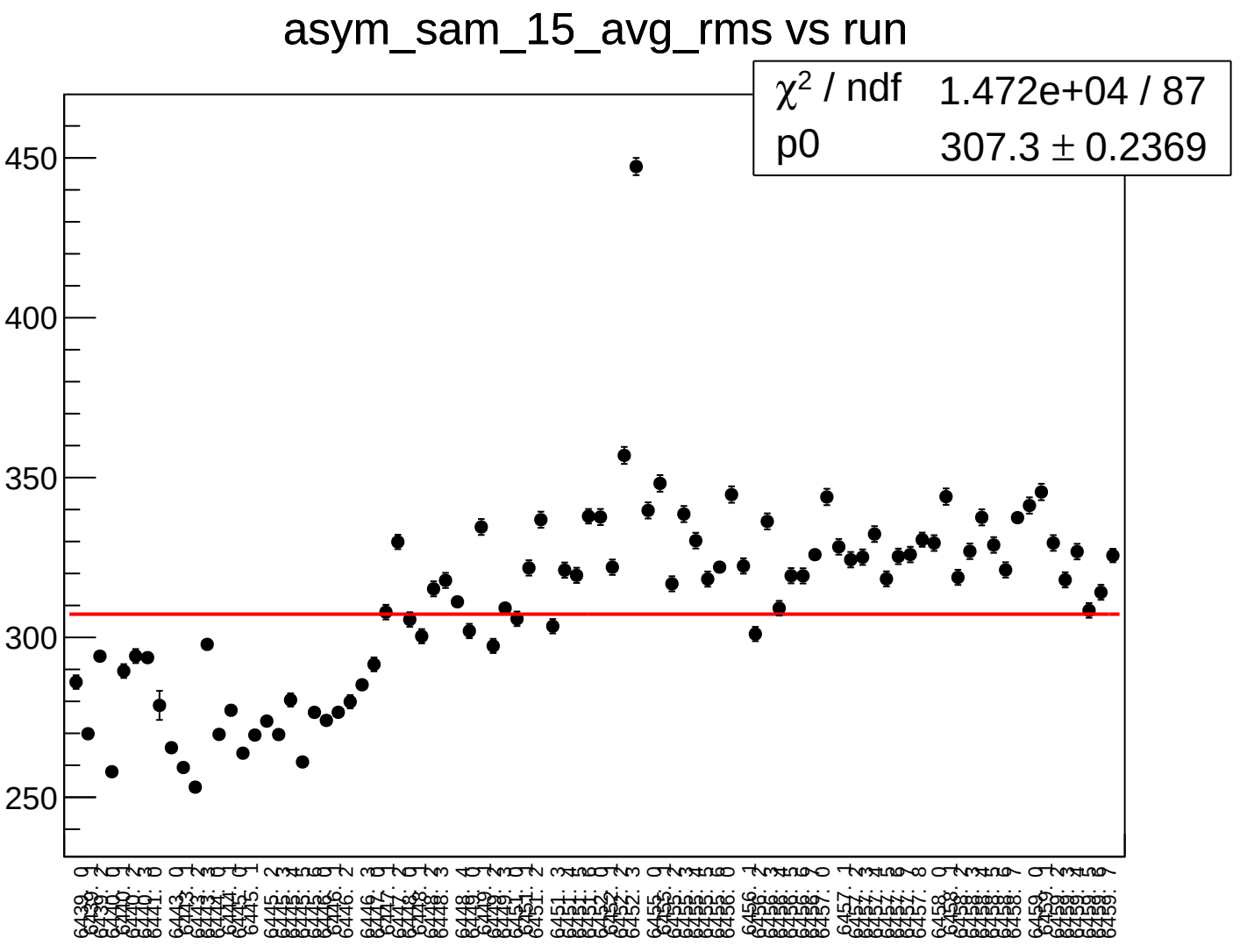

asym_sam_15_avg_correction_mean vs run
χ² / ndf 78.31 / 87
p0 −337.4 ± 329.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 563.8
Std Dev 515.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

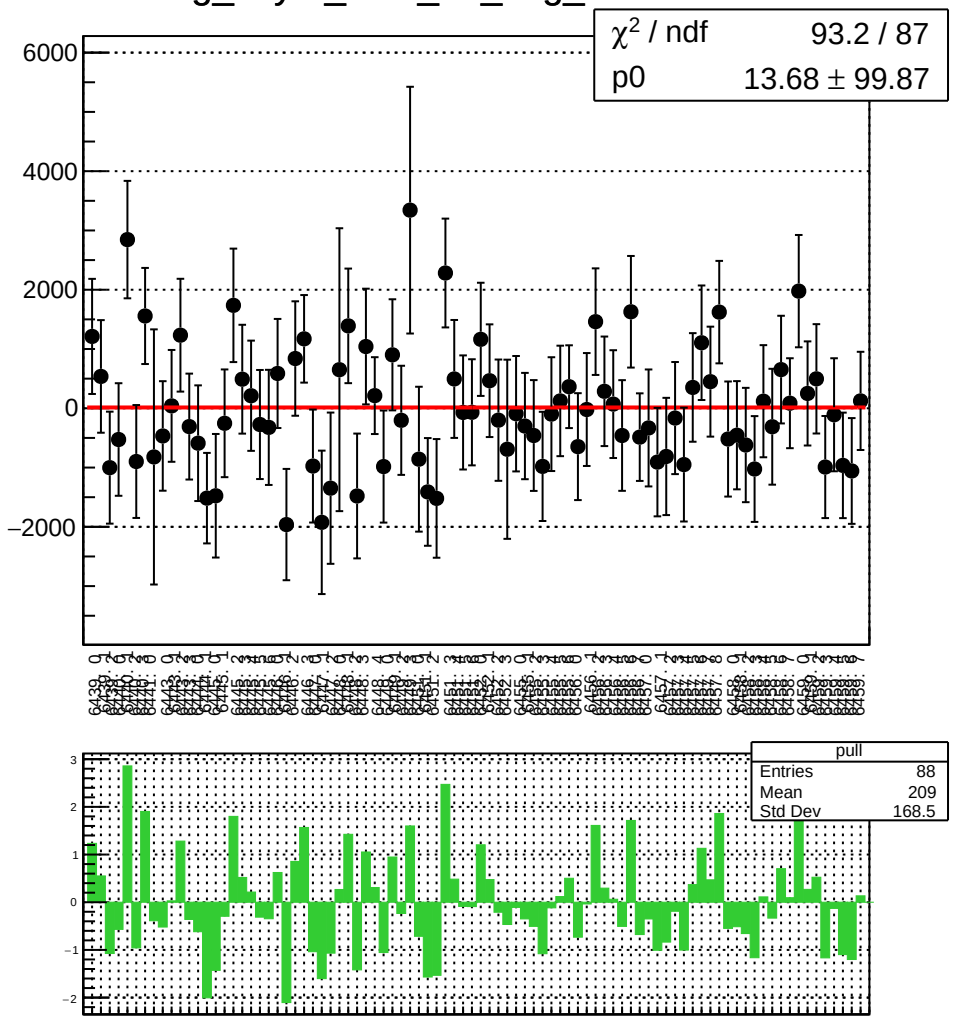

pull1D
Entries 88
Mean 0.009707
Std Dev 0.9433
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

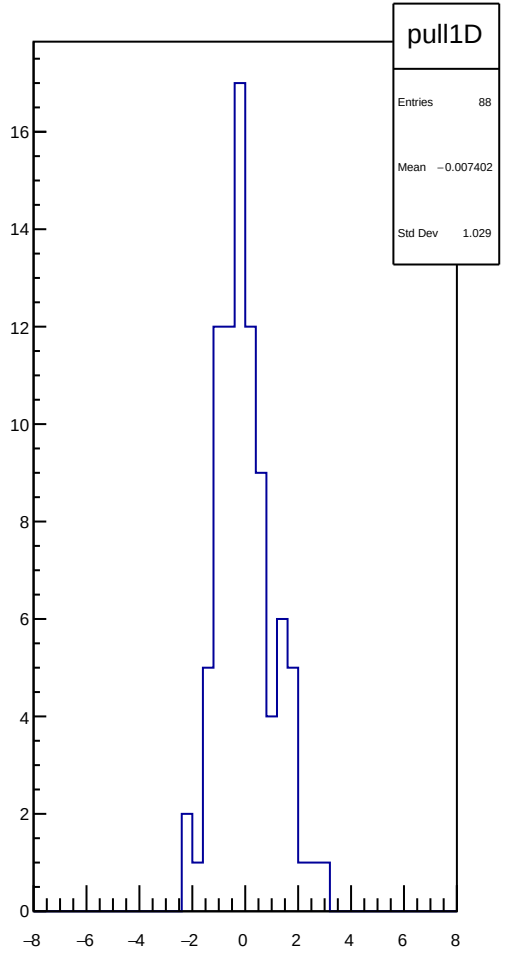

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1.522e+04 / 87
p0 302.2 ± 0.2331
440
420
400
380
360
340
320
300
280
260
240

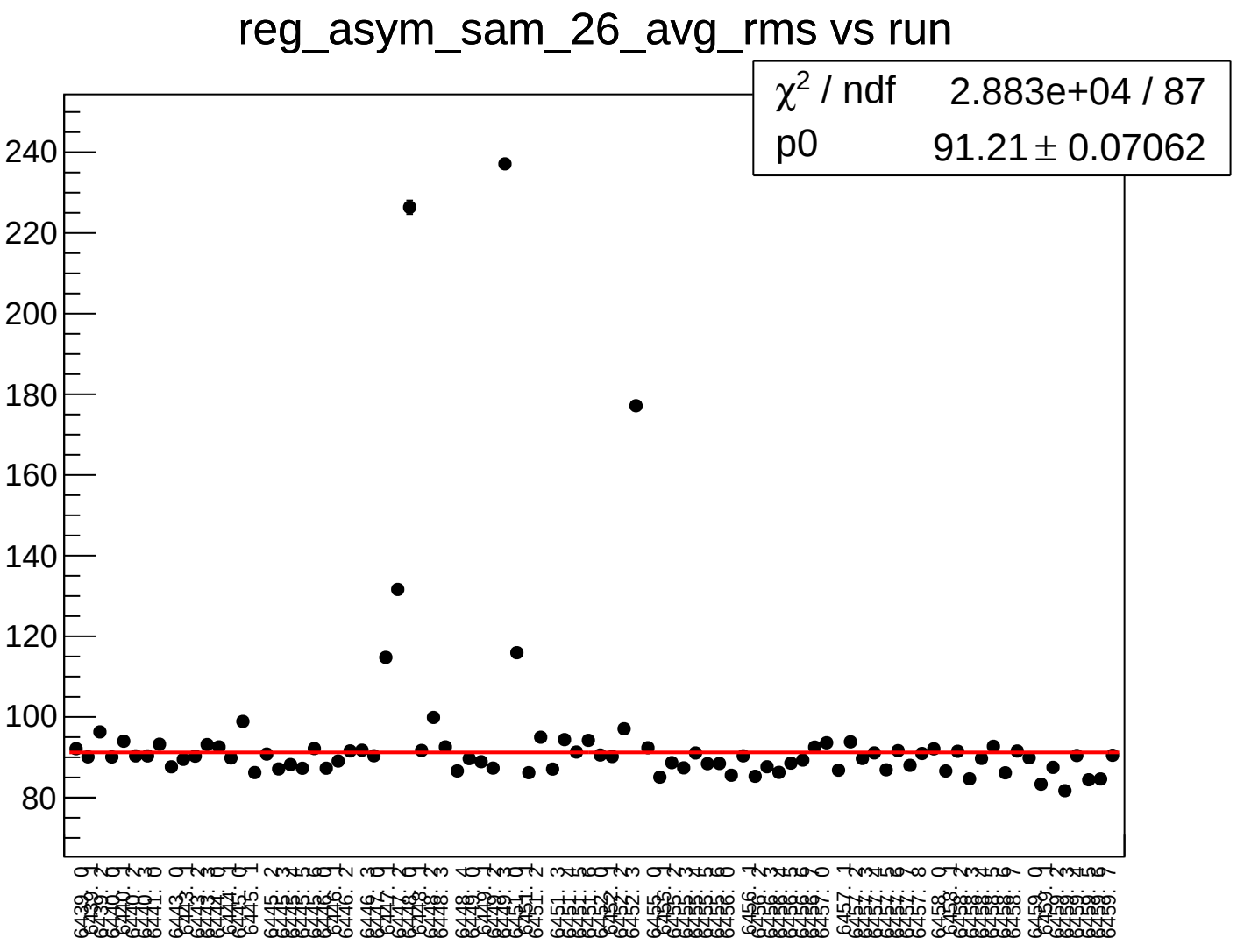

asym_sam_15_avg_mean vs run
χ² / ndf 83.34 / 87
p0 399.1 ± 335
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 570.8
Std Dev 523
2
1
0
−1
−2

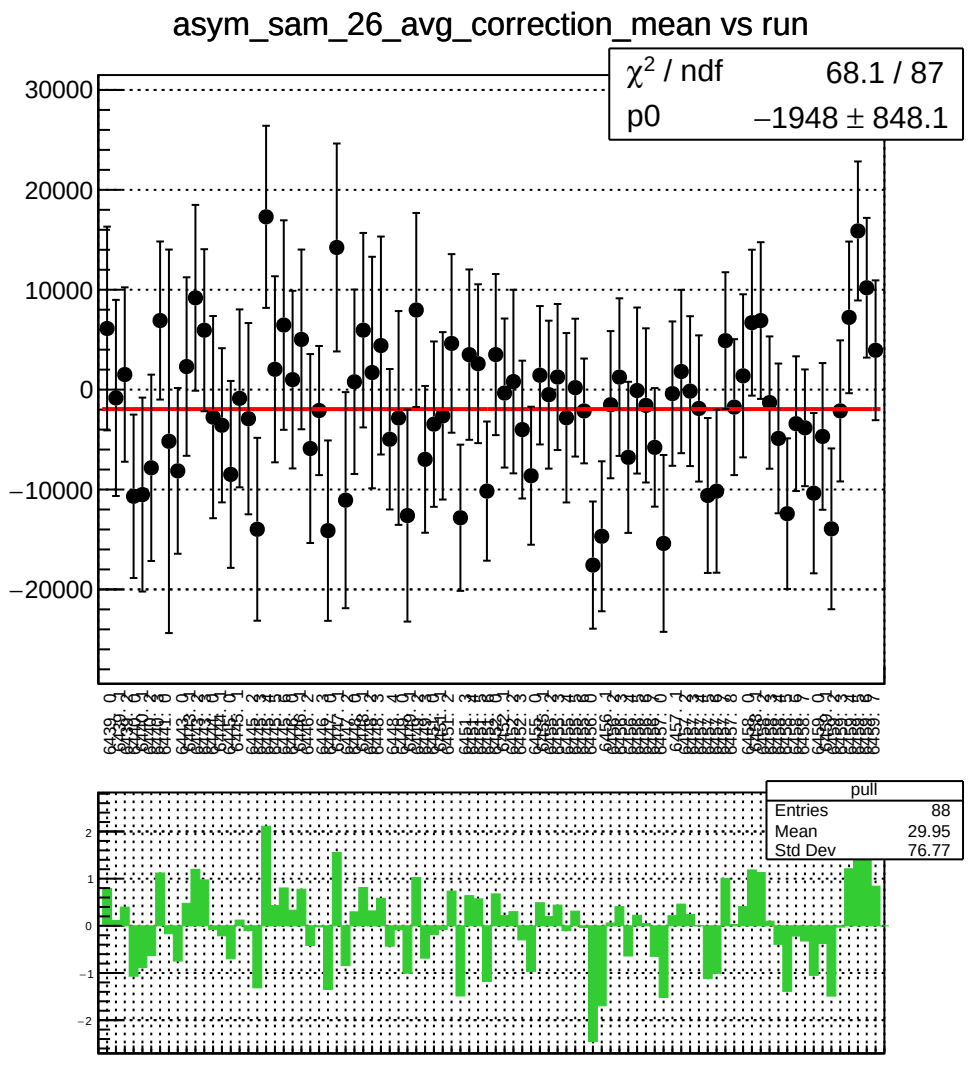

pull1D
Entries 88
Mean −0.01001
Std Dev 0.9731
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

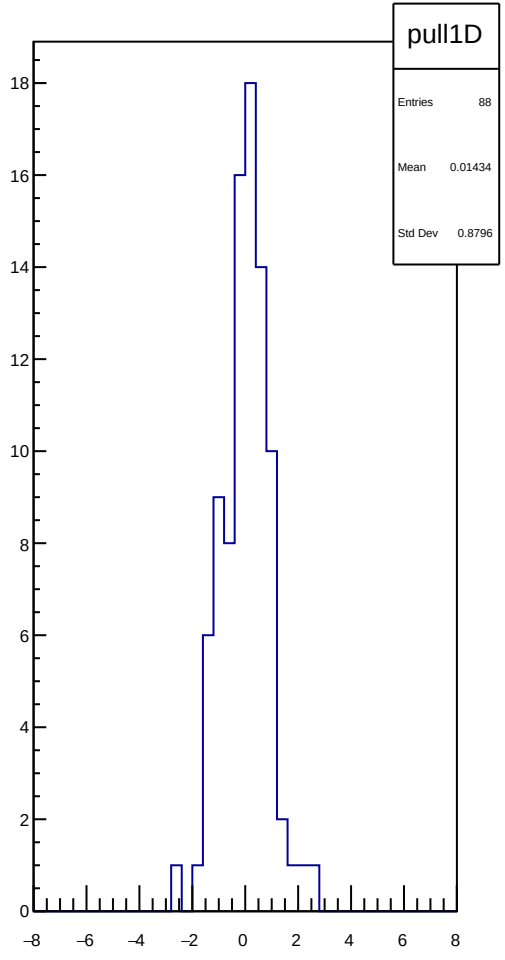

asym_sam_15_avg_rms vs run
χ² / ndf 1.472e+04 / 87
p0 307.3 ± 0.2369
450
400
350
300
250

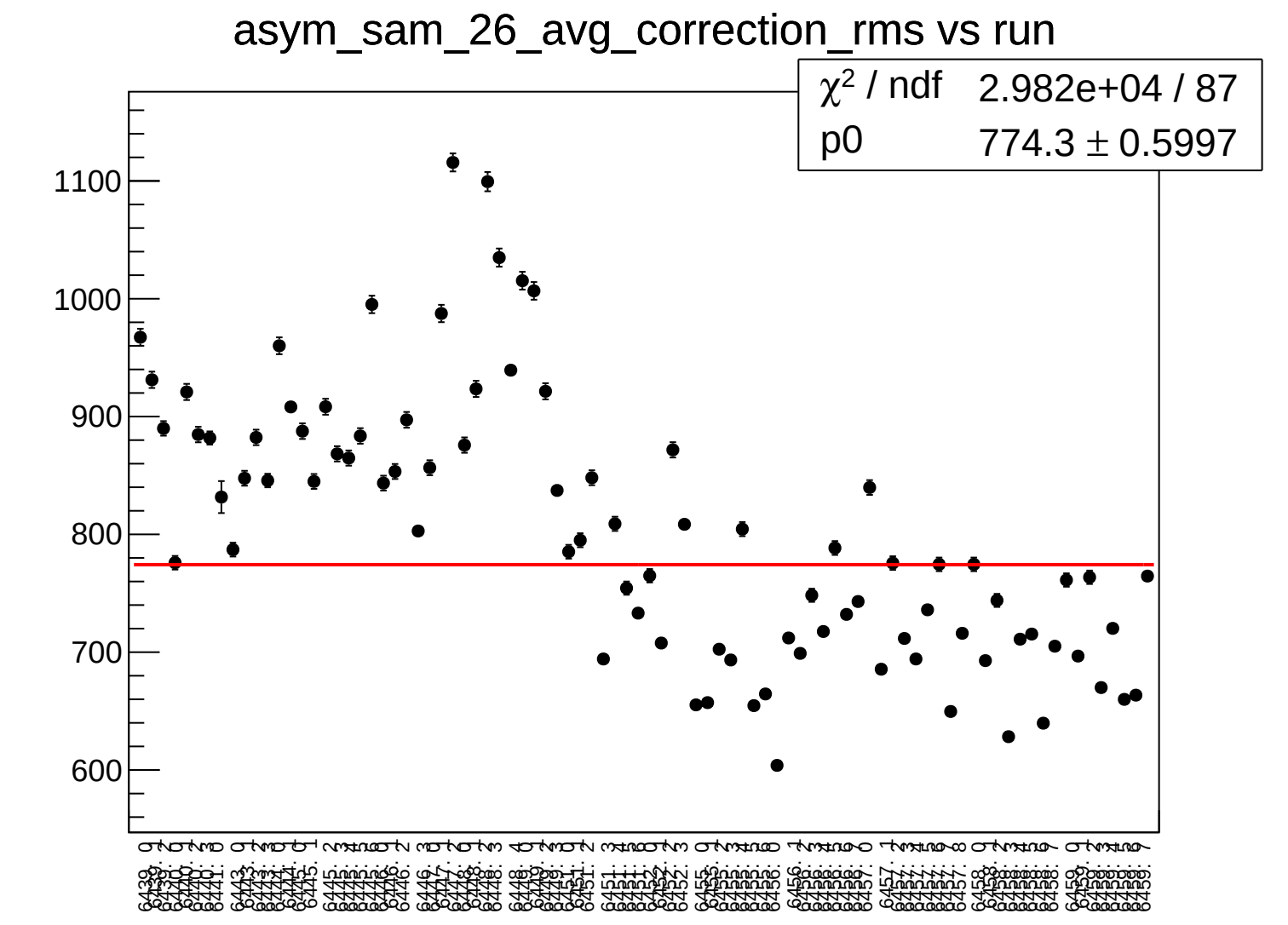

reg_asym_sam_26_avg_mean vs run
χ² / ndf 93.2 / 87
p0 13.68 ± 99.87
6000
4000
2000
0
−2000
pull
Entries 88
Mean 209
Std Dev 168.5
3
2
1
0
−1
−2

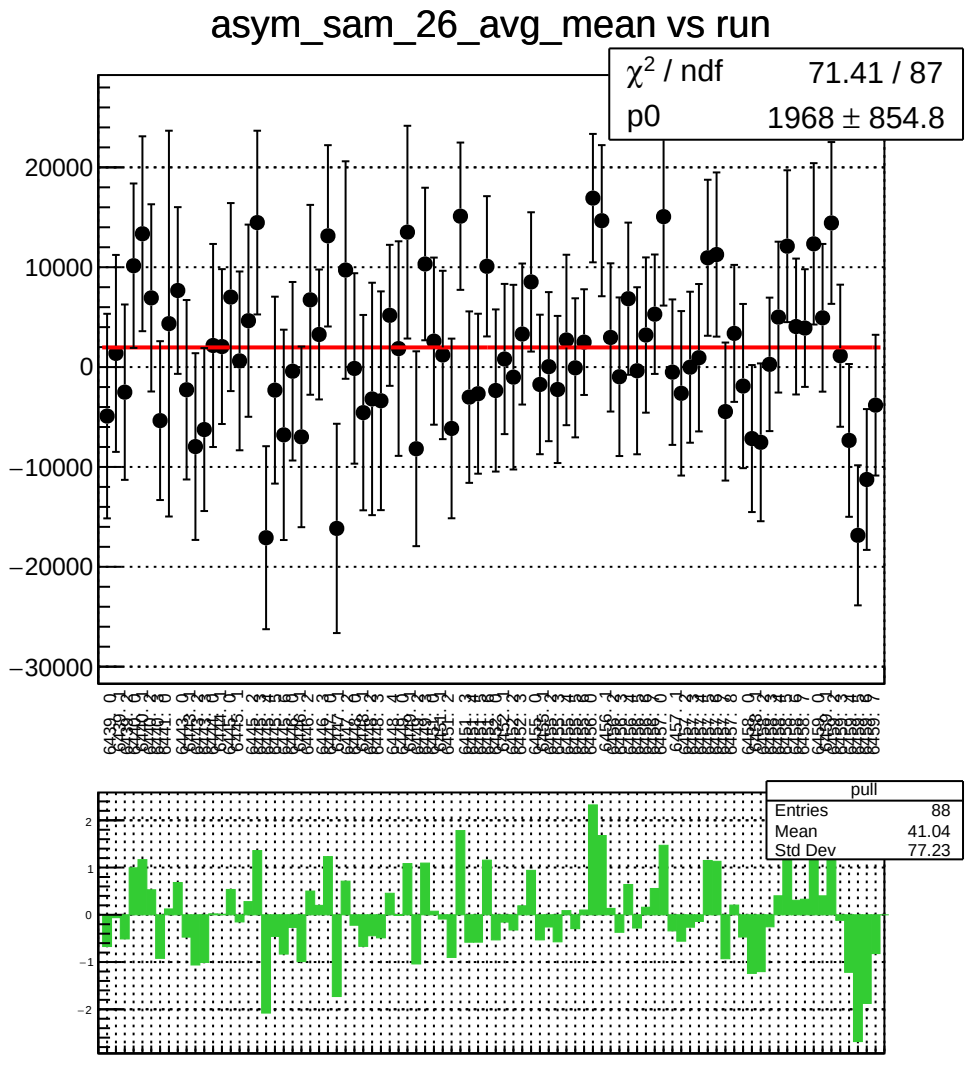

pull1D
Entries 88
Mean −0.007402
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

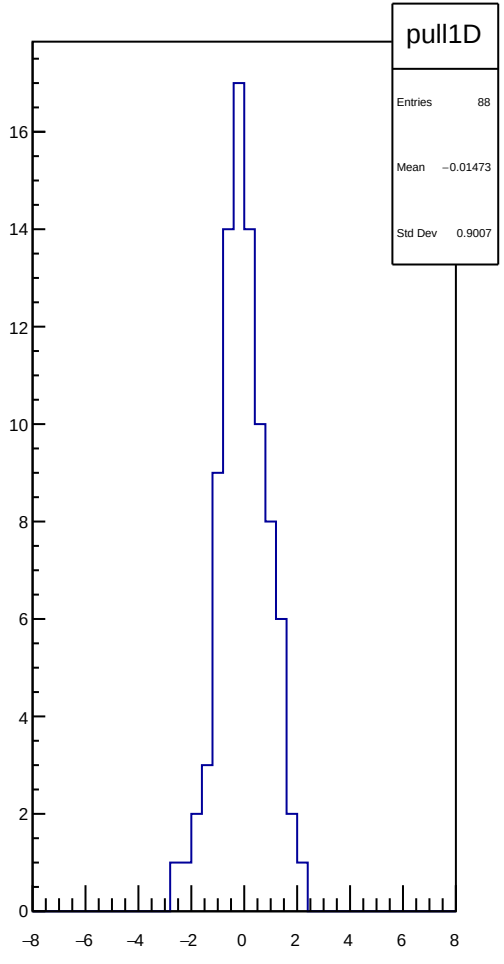

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 2.883e+04 / 87
p0 91.21 ± 0.07062
240
220
200
180
160
140
120
100
80

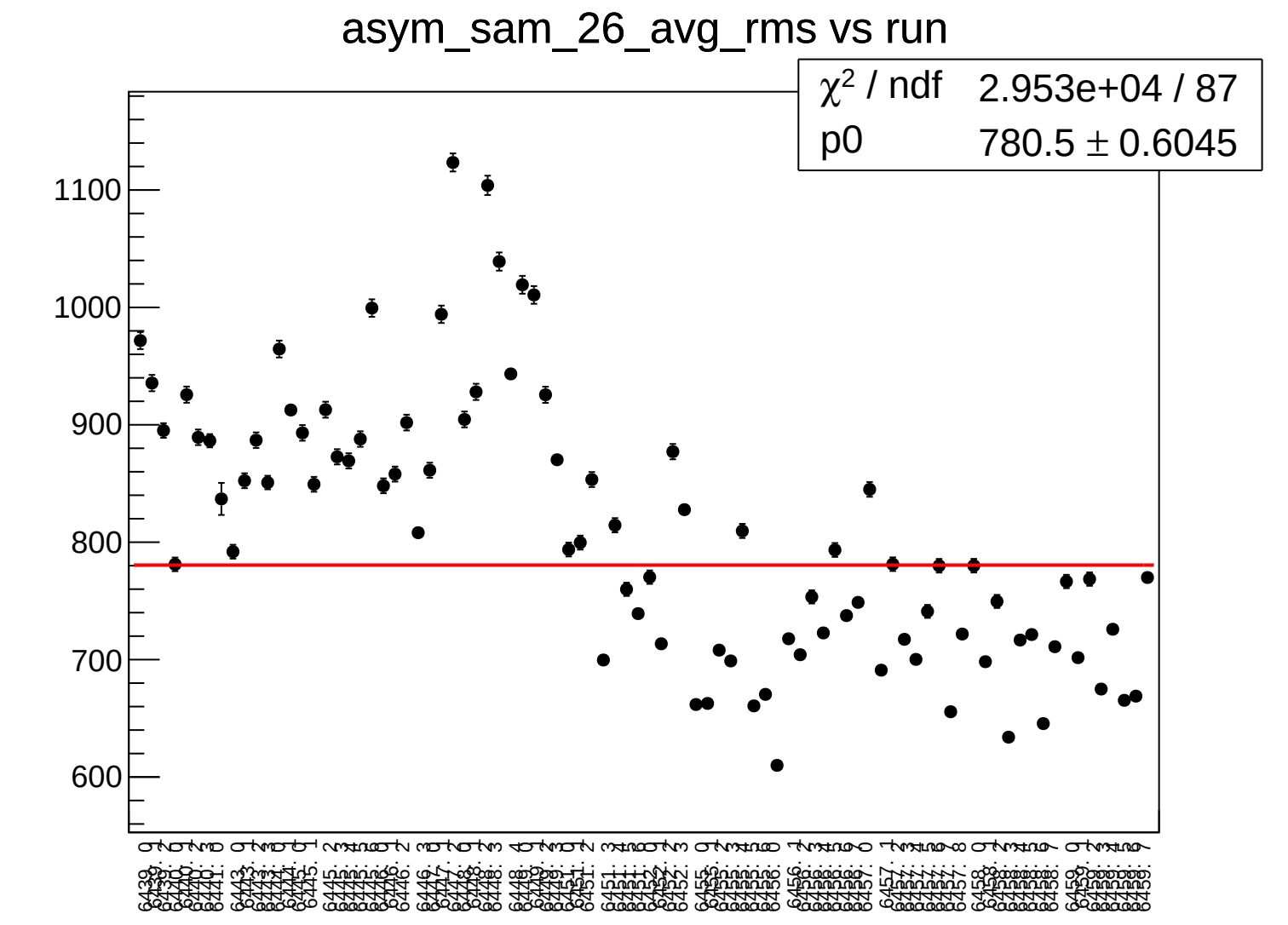

asym_sam_26_avg_correction_mean vs run
χ² / ndf 68.1 / 87
p0 −1948 ± 848.1
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 29.95
Std Dev 76.77
2
1
0
−1
−2

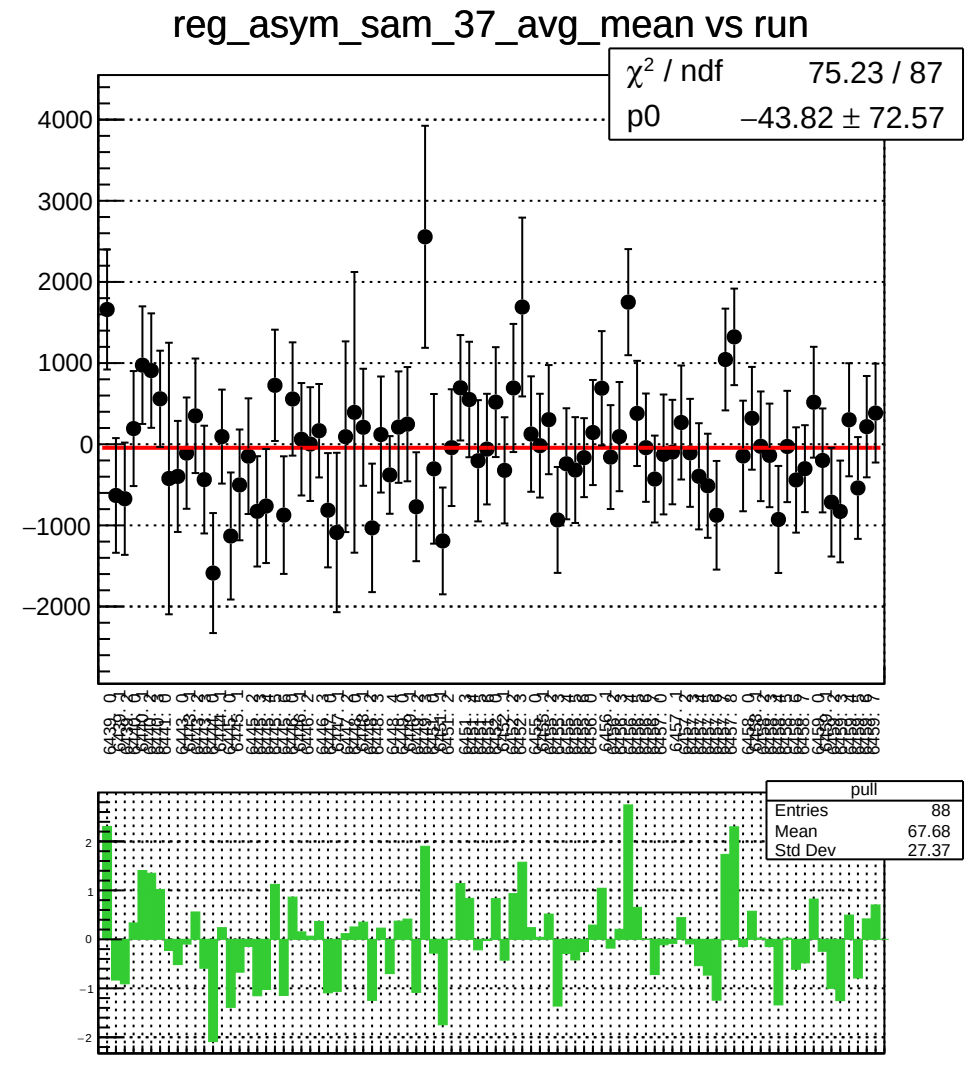

pull1D
Entries 88
Mean 0.01434
Std Dev 0.8796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

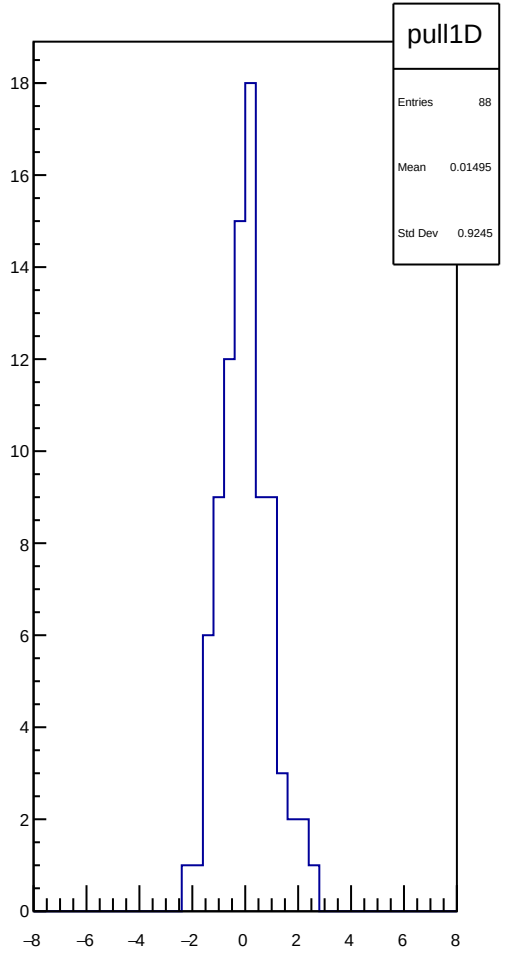

asym_sam_26_avg_correction_rms vs run
χ² / ndf 2.982e+04 / 87
p0 774.3 ± 0.5997
1100
1000
900
800
700
600

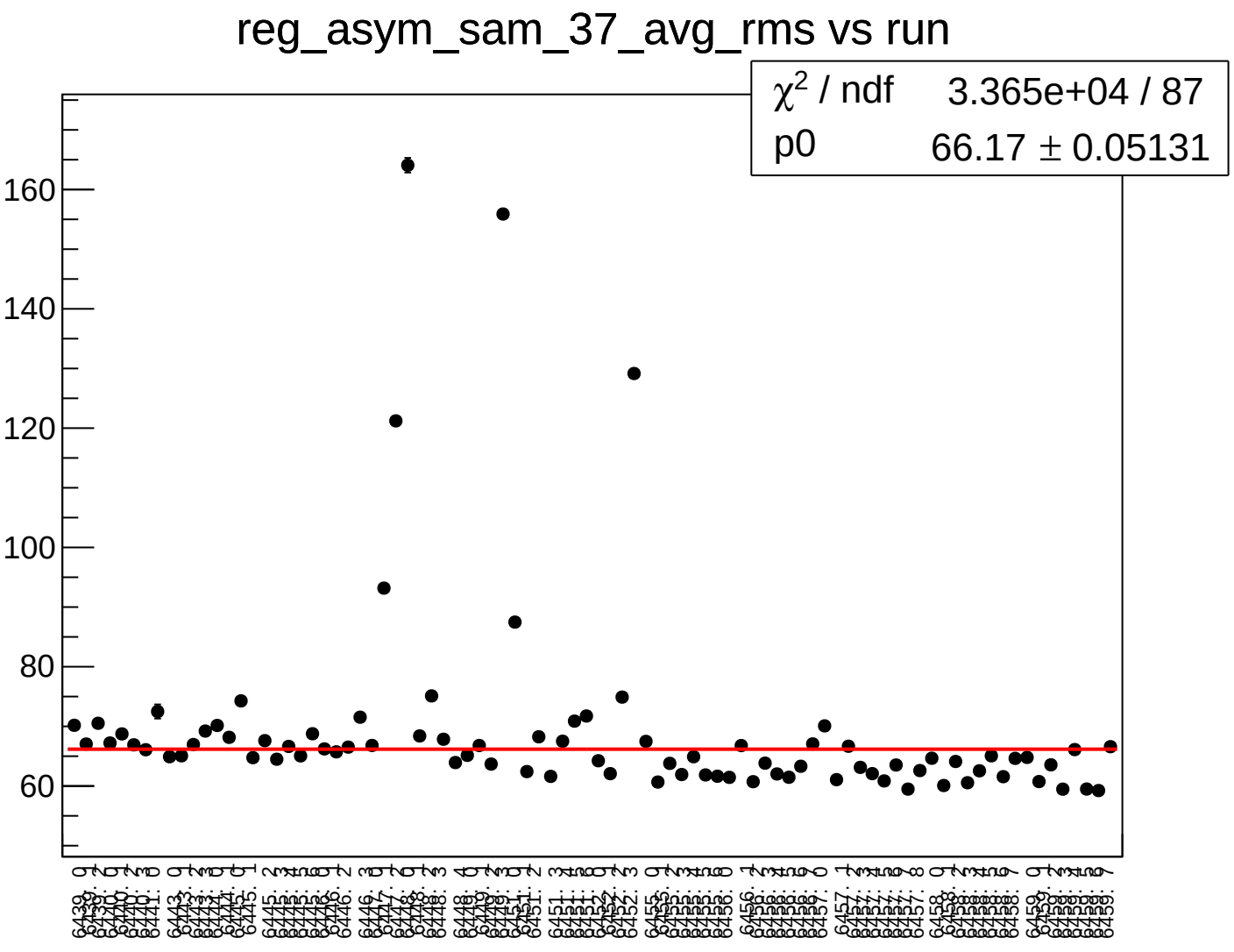

asym_sam_26_avg_mean vs run
χ² / ndf 71.41 / 87
p0 1968 ± 854.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 41.04
Std Dev 77.23
2
1
0
−1
−2

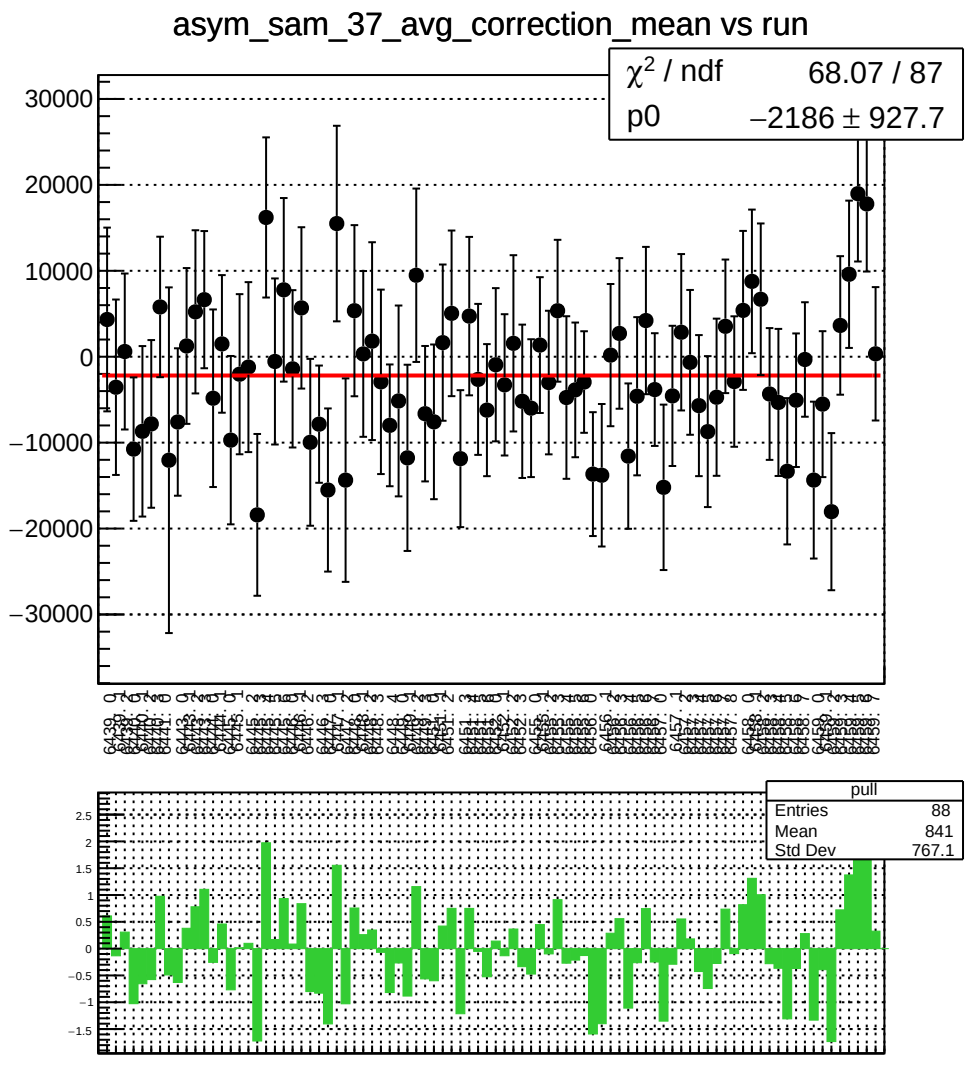

pull1D
Entries 88
Mean −0.01473
Std Dev 0.9007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

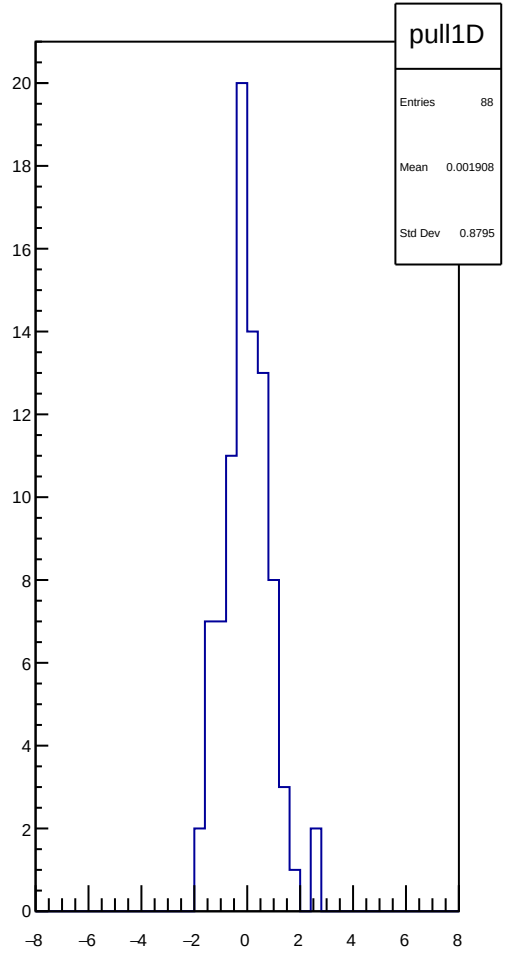

asym_sam_26_avg_rms vs run
χ² / ndf 2.953e+04 / 87
p0 780.5 ± 0.6045
1100
1000
900
800
700
600

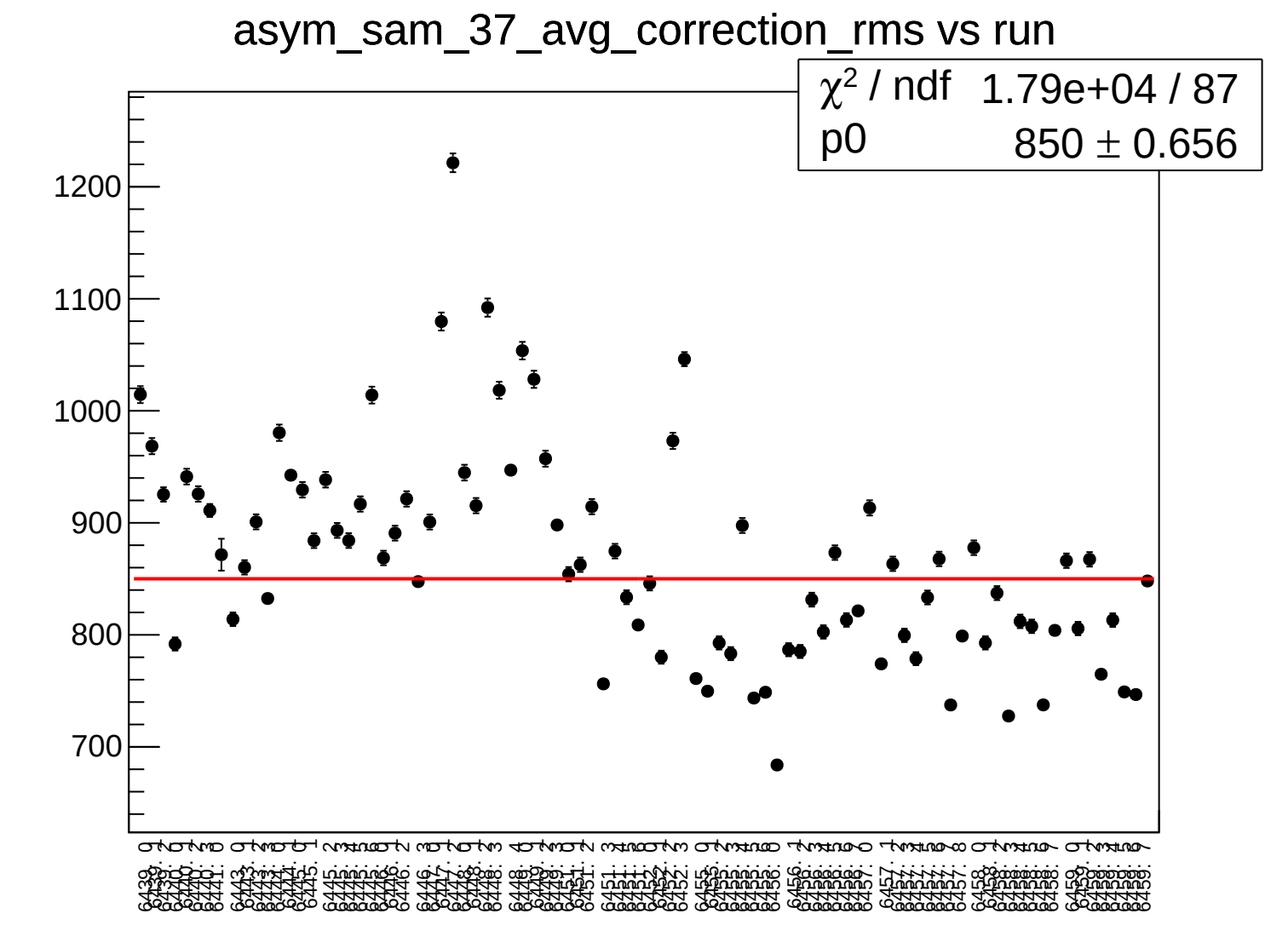

reg_asym_sam_37_avg_mean vs run
χ² / ndf 75.23 / 87
p0 −43.82 ± 72.57
4000
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 67.68
Std Dev 27.37
2
1
0
−1
−2

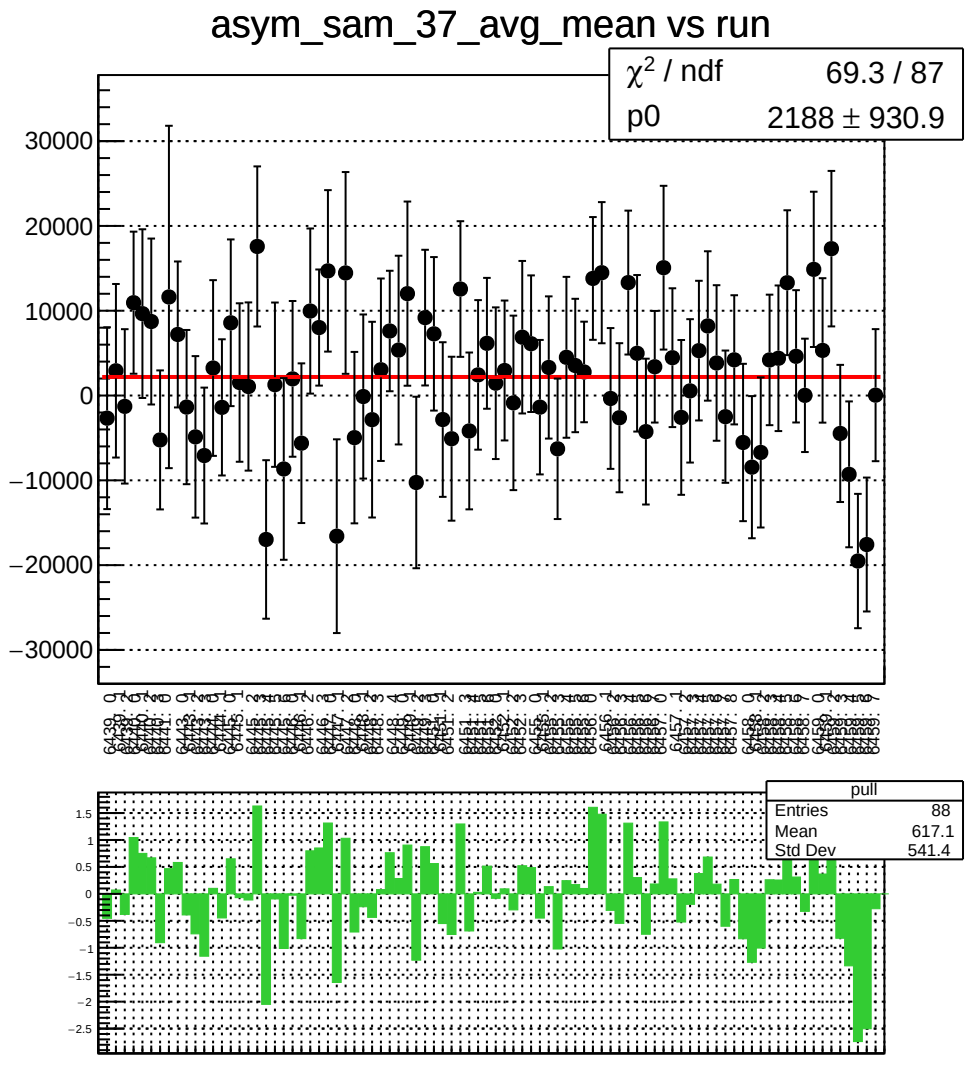

pull1D
Entries 88
Mean 0.01495
Std Dev 0.9245
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

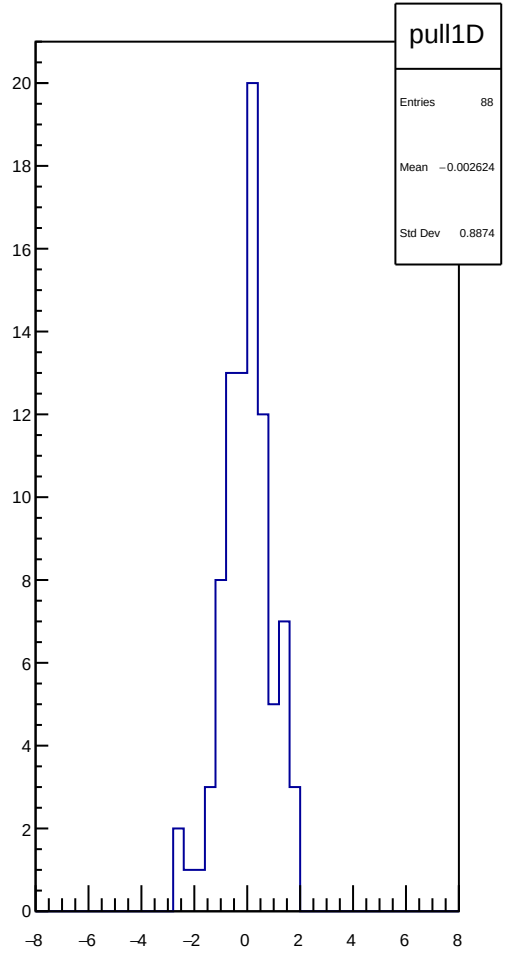

reg_asym_sam_37_avg_rms vs run
χ² / ndf 3.365e+04 / 87
p0 66.17 ± 0.05131
160
140
120
100
80
60

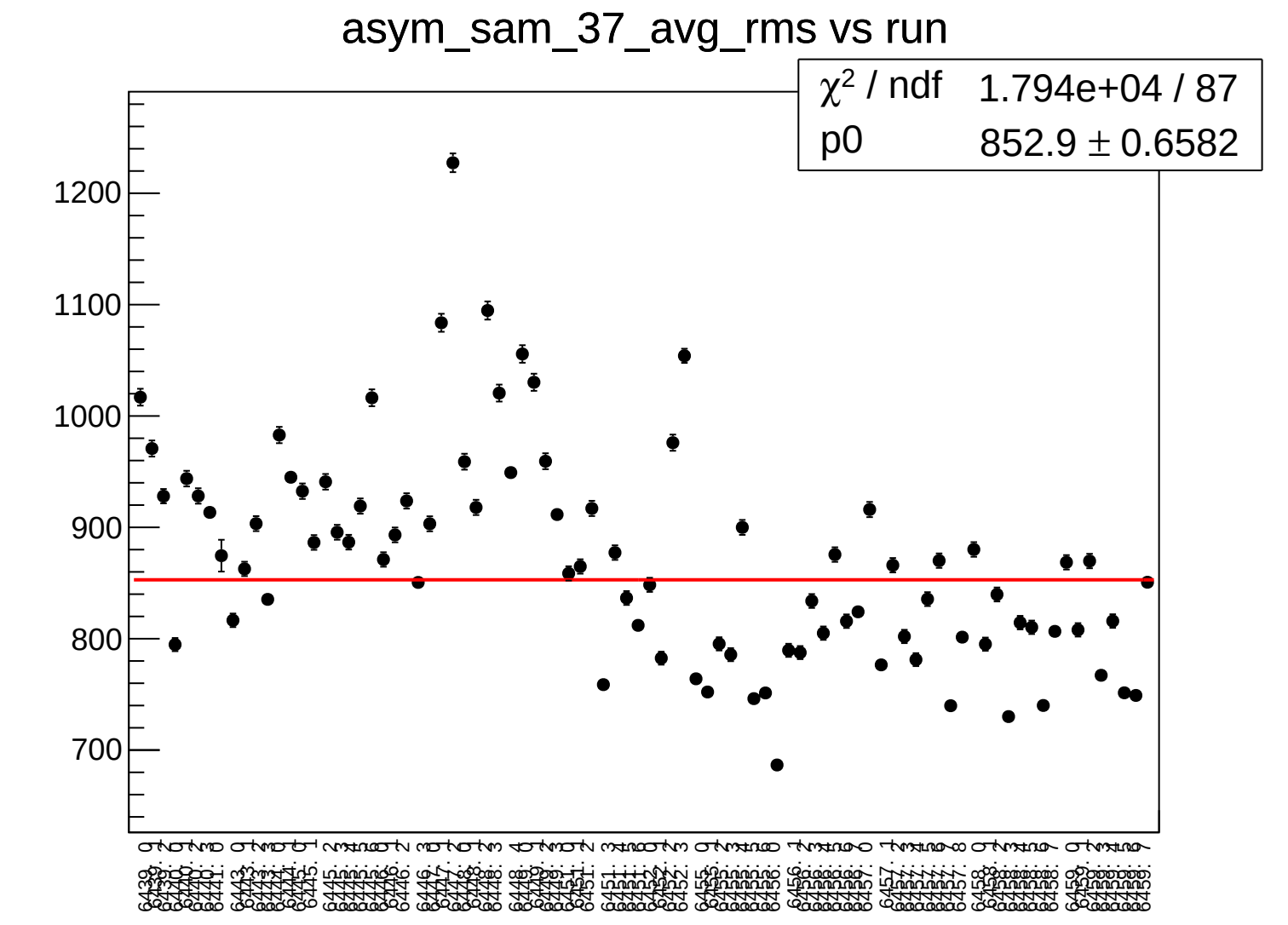

asym_sam_37_avg_correction_mean vs run
χ² / ndf 68.07 / 87
p0 −2186 ± 927.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 841
Std Dev 767.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

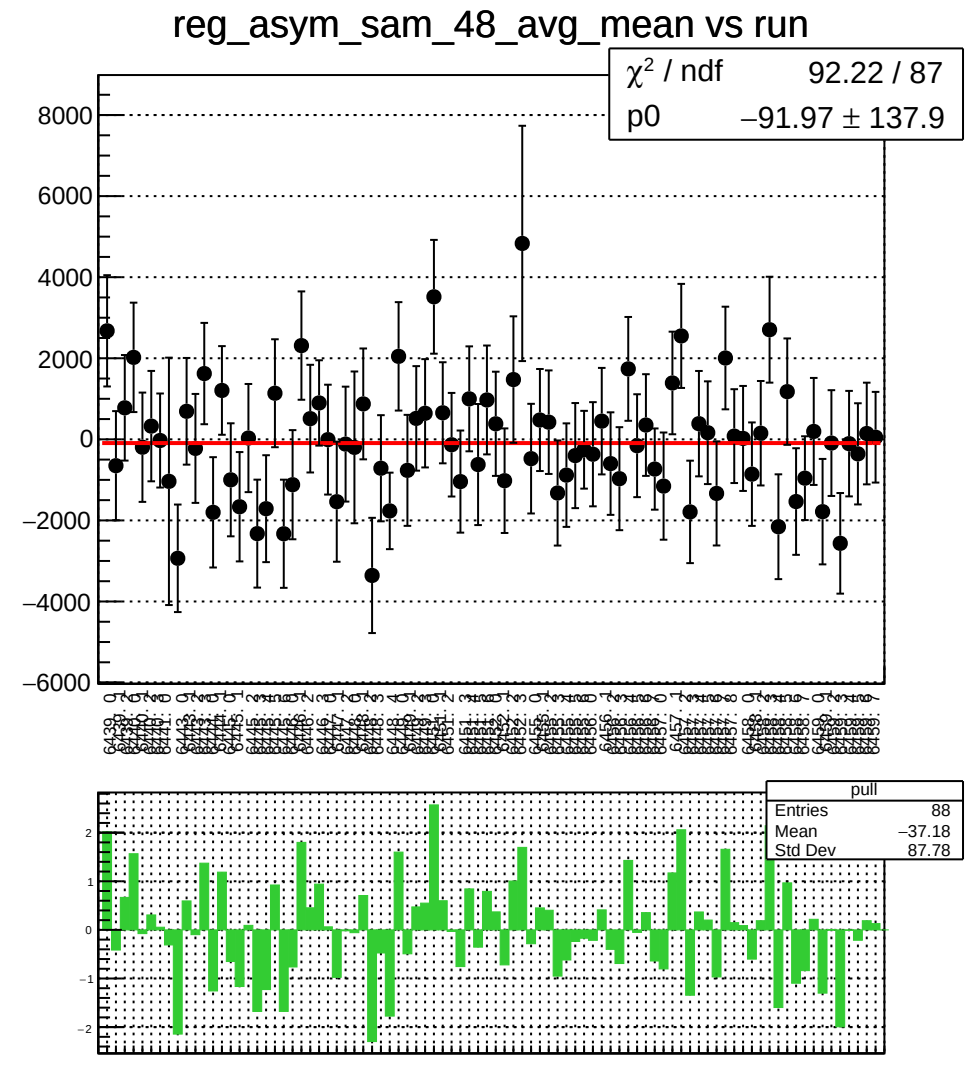

pull1D
Entries 88
Mean 0.001908
Std Dev 0.8795
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

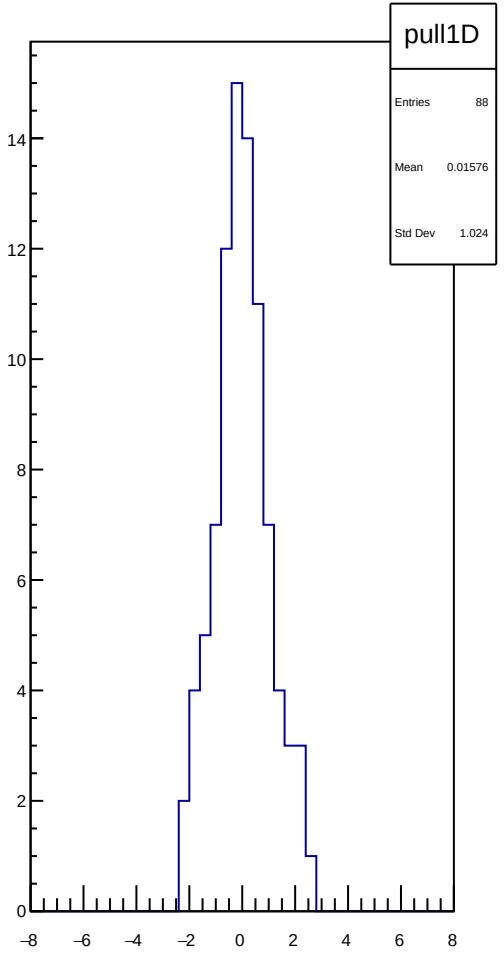

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1.79e+04 / 87
p0 850 ± 0.656
1200
1100
1000
900
800
700

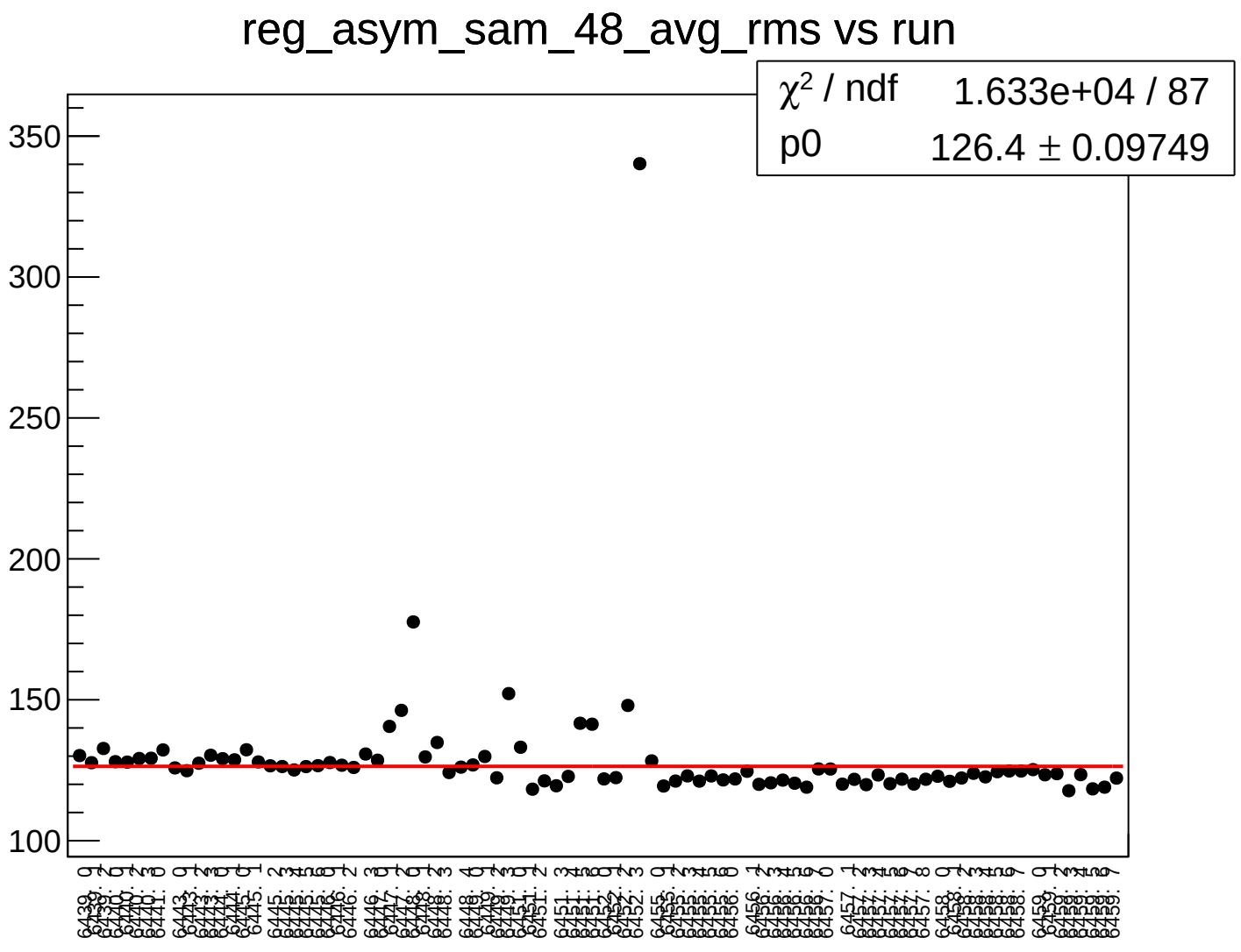

asym_sam_37_avg_mean vs run
χ² / ndf 69.3 / 87
p0 2188 ± 930.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 617.1
Std Dev 541.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

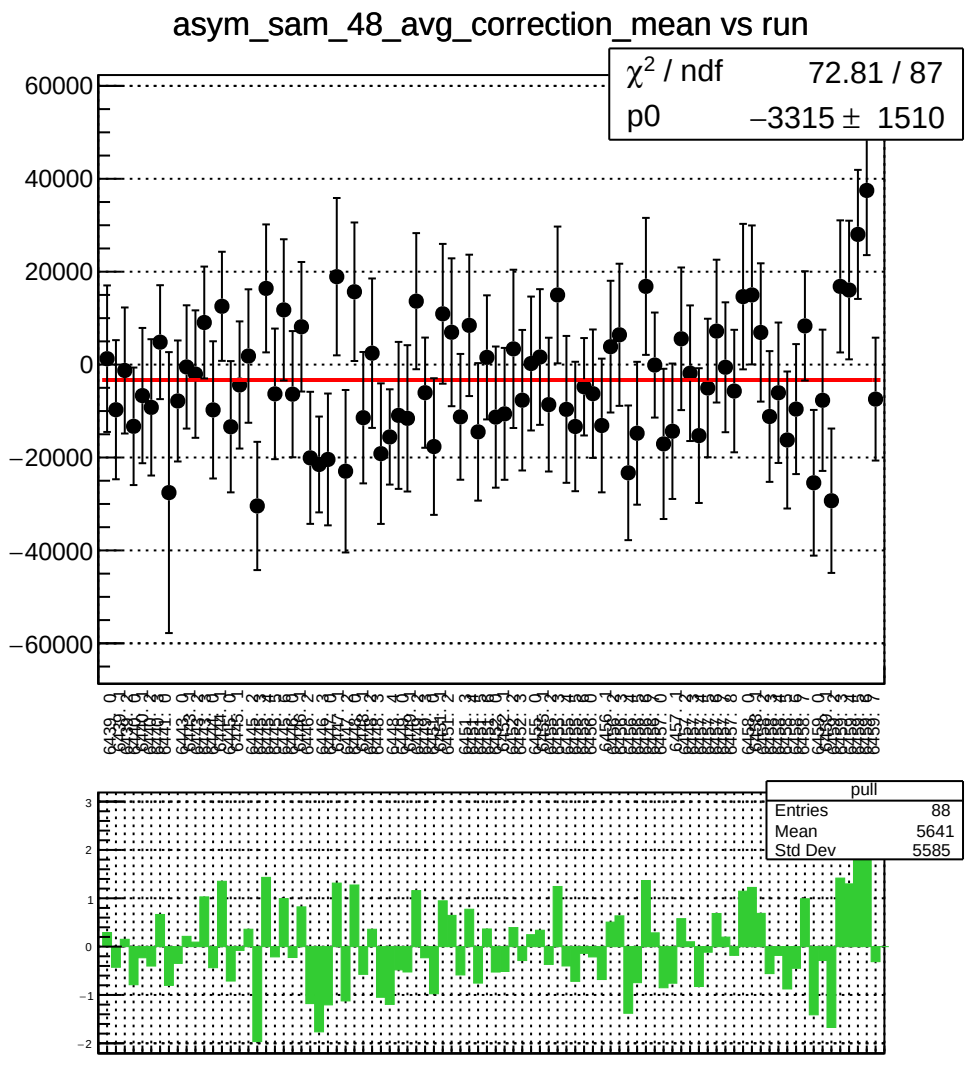

pull1D
Entries 88
Mean −0.002624
Std Dev 0.8874
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

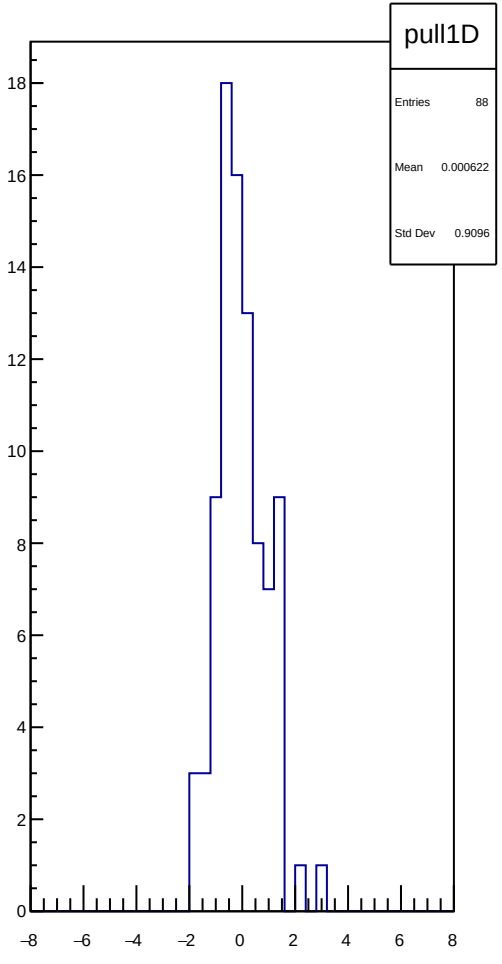

asym_sam_37_avg_rms vs run
χ² / ndf 1.794e+04 / 87
p0 852.9 ± 0.6582
1200
1100
1000
900
800
700

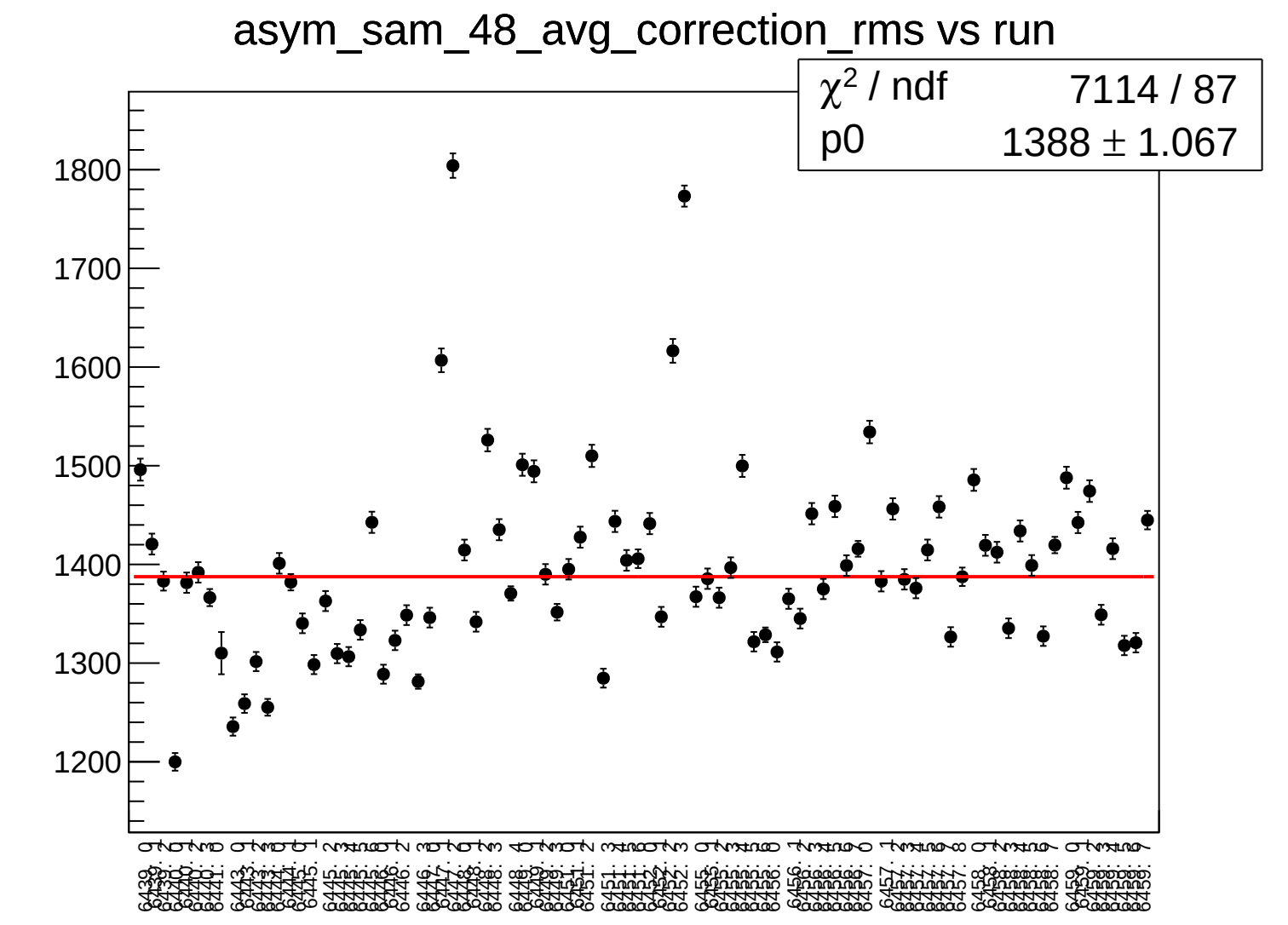

reg_asym_sam_48_avg_mean vs run
χ² / ndf 92.22 / 87
p0 −91.97 ± 137.9
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −37.18
Std Dev 87.78
2
1
0
−1
−2

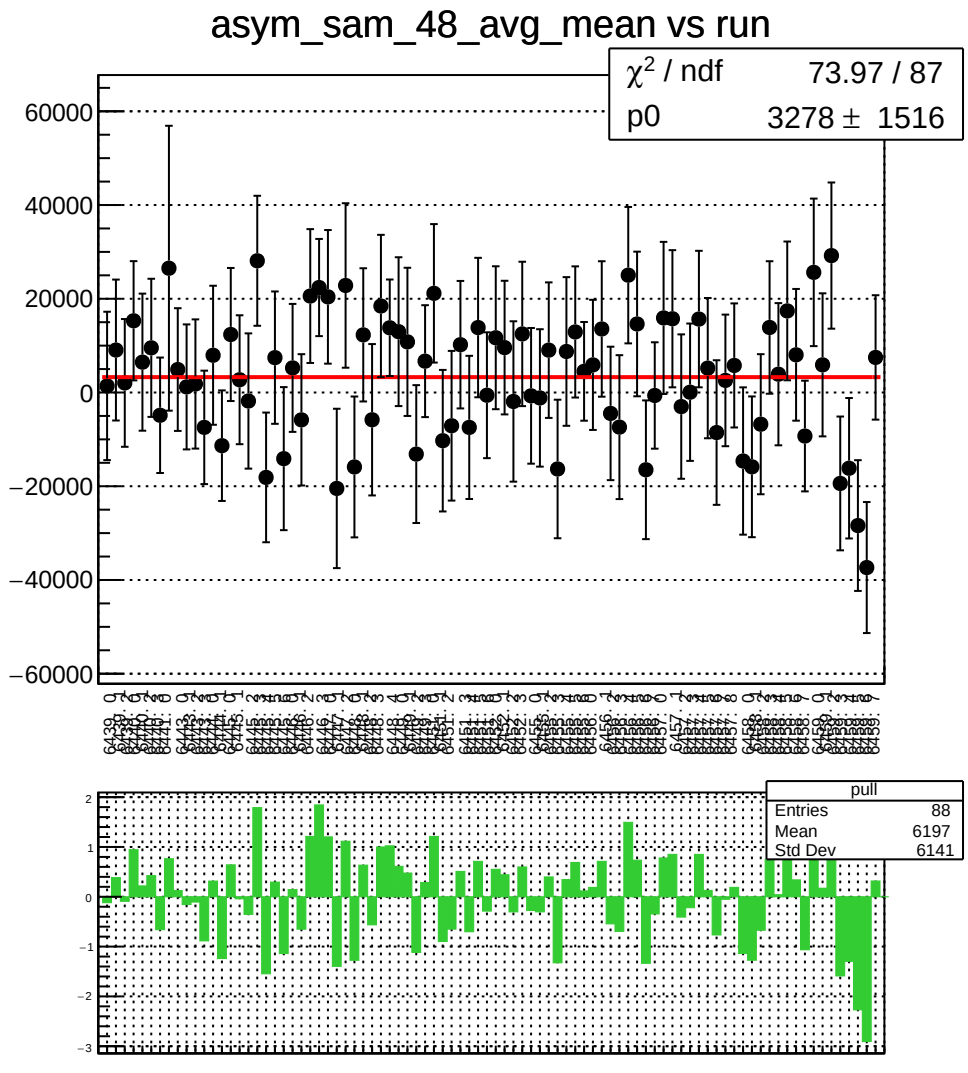

pull1D
Entries 88
Mean 0.01576
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

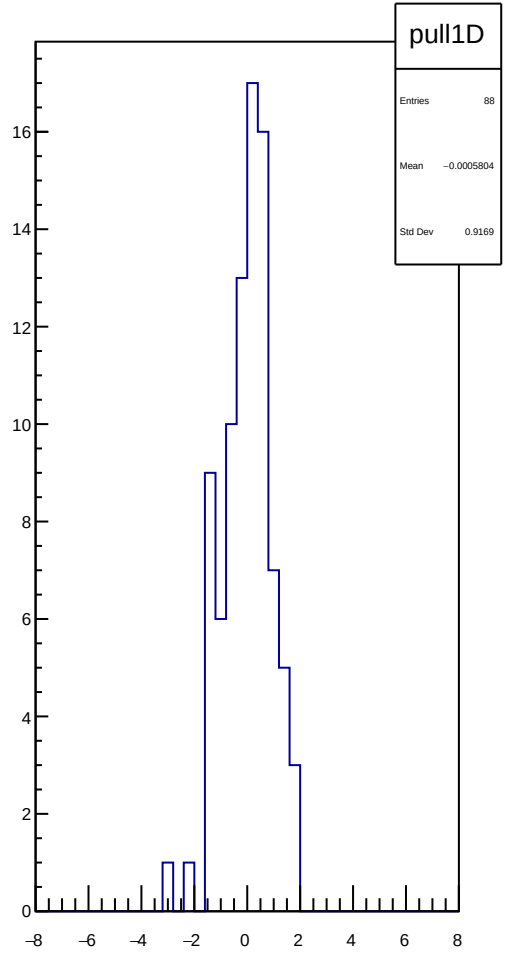

reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.633e+04 / 87
p0 126.4 ± 0.09749
350
300
250
200
150
100

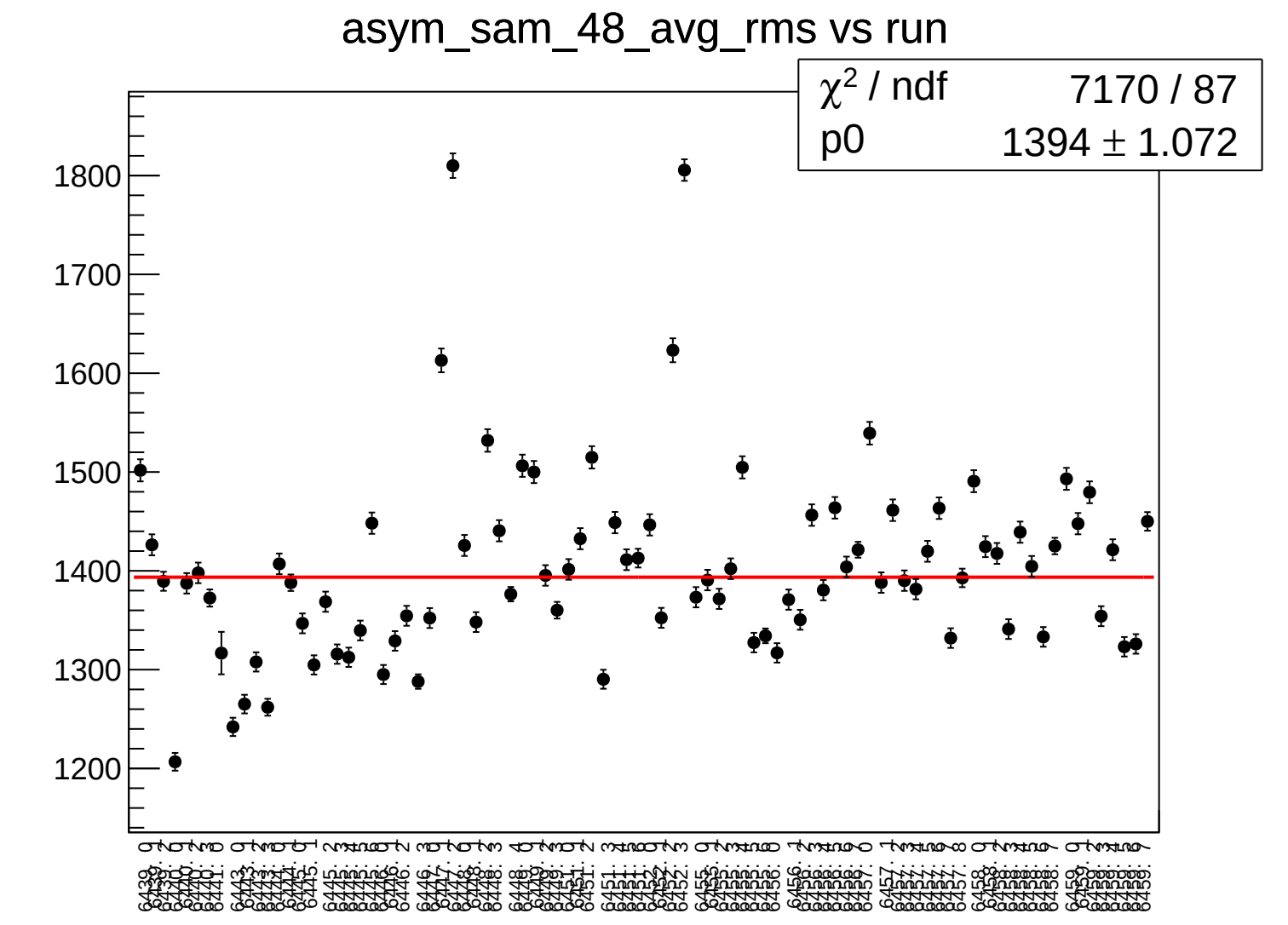

asym_sam_48_avg_correction_mean vs run
χ² / ndf 72.81 / 87
p0 −3315 ± 1510
pull
Entries 88
Mean 5641
Std Dev 5585

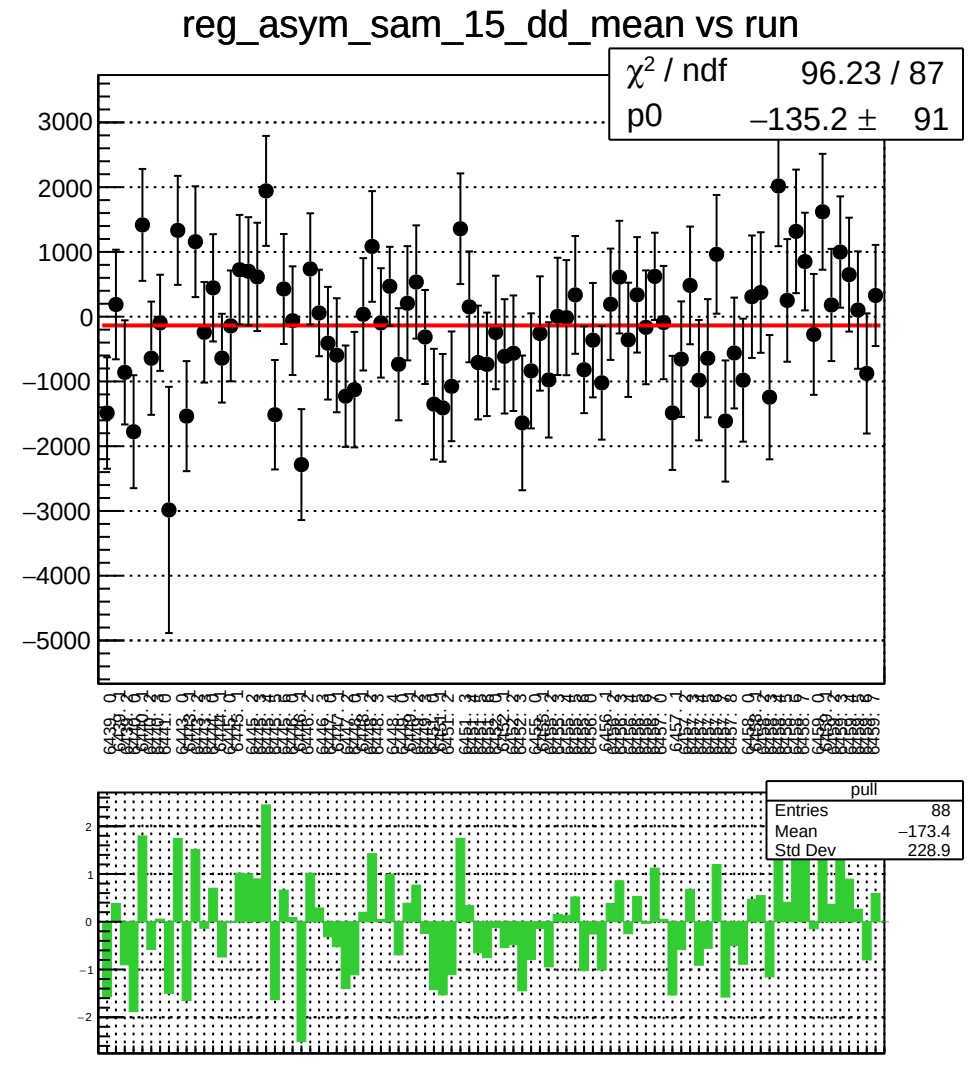

pull1D
Entries 88
Mean 0.000622
Std Dev 0.9096

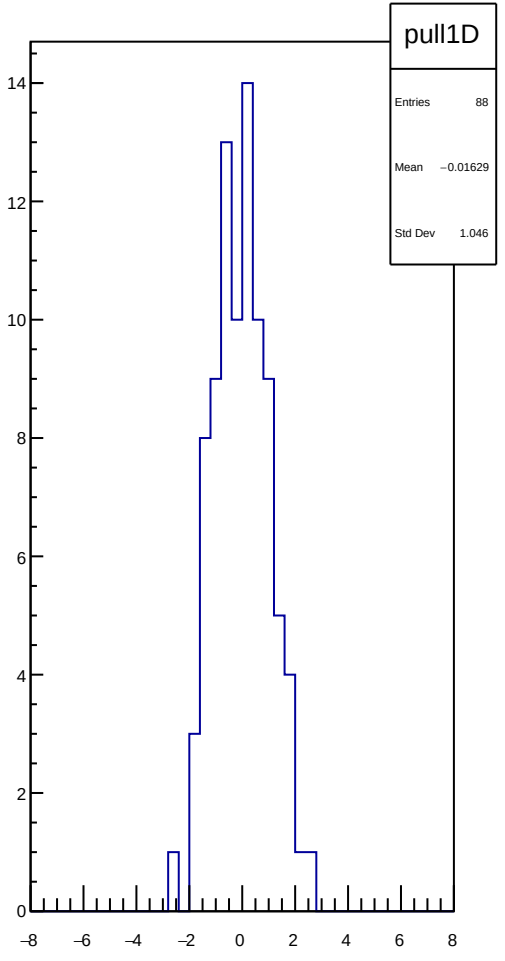

asym_sam_48_avg_correction_rms vs run
χ² / ndf 7114 / 87
p0 1388 ± 1.067
1800
1700
1600
1500
1400
1300
1200

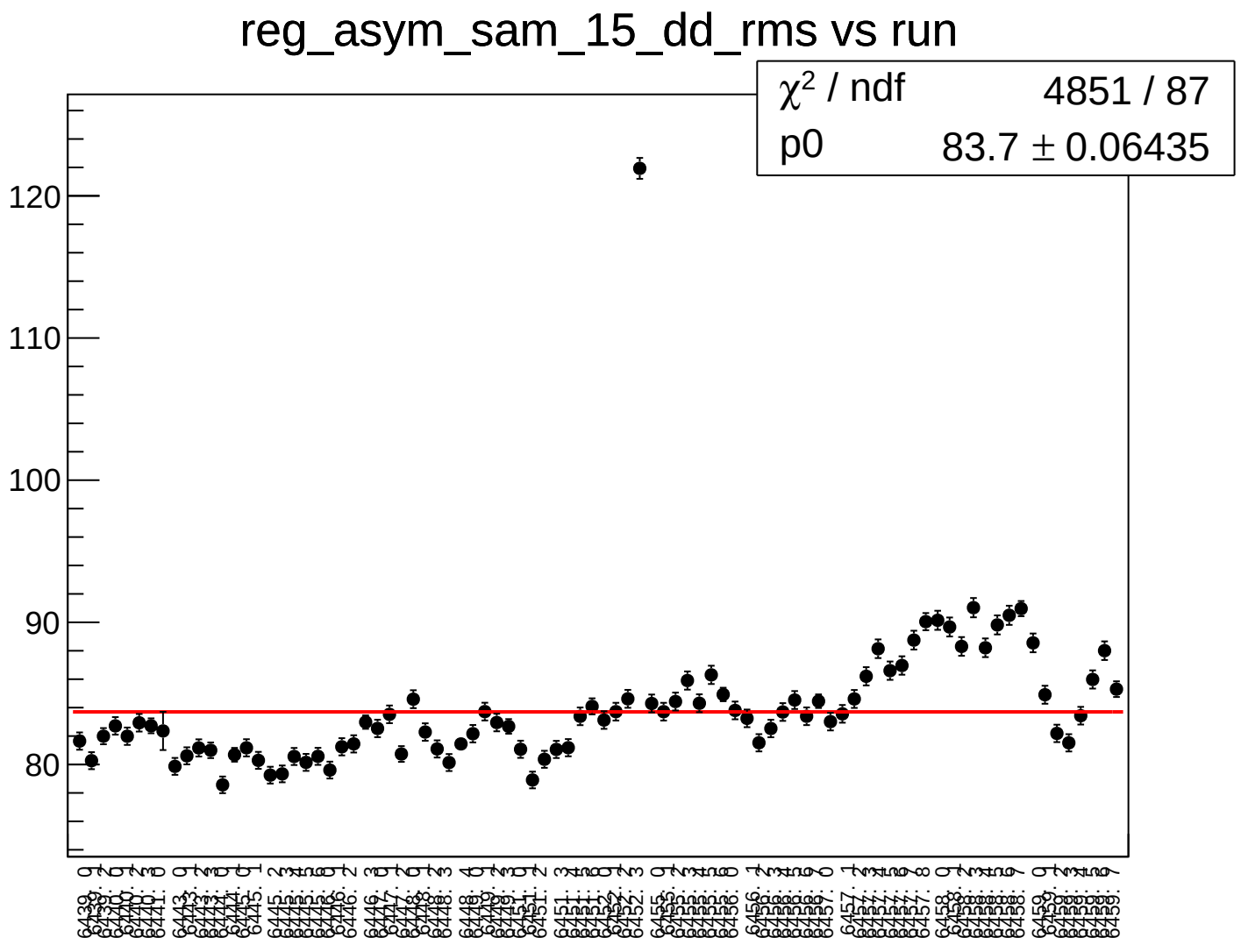

asym_sam_48_avg_mean vs run
χ² / ndf 73.97 / 87
p0 3278 ± 1516
pull
Entries 88
Mean 6197
Std Dev 6141

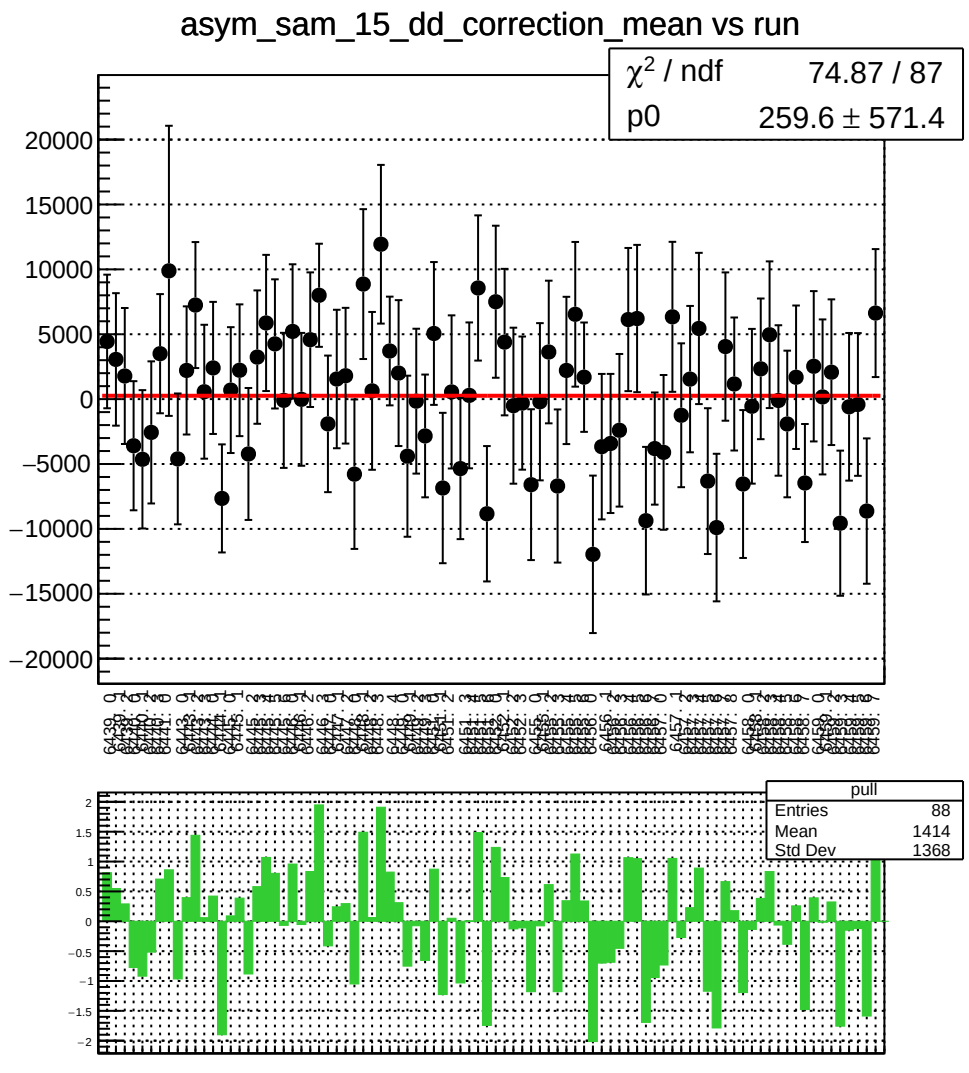

pull1D
Entries 88
Mean −0.0005804
Std Dev 0.9169

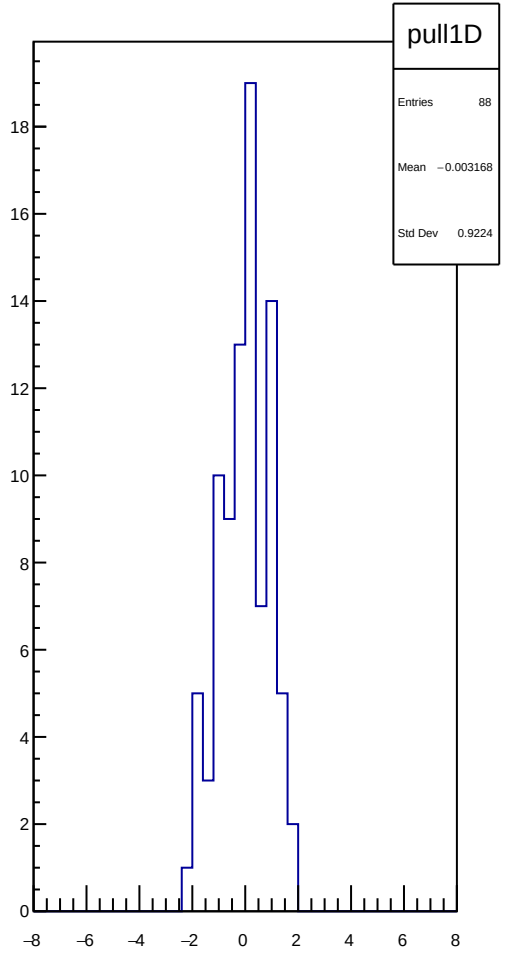

asym_sam_48_avg_rms vs run
χ^2 / ndf 7170 / 87
p0 1394 ± 1.072
1800
1700
1600
1500
1400
1300
1200

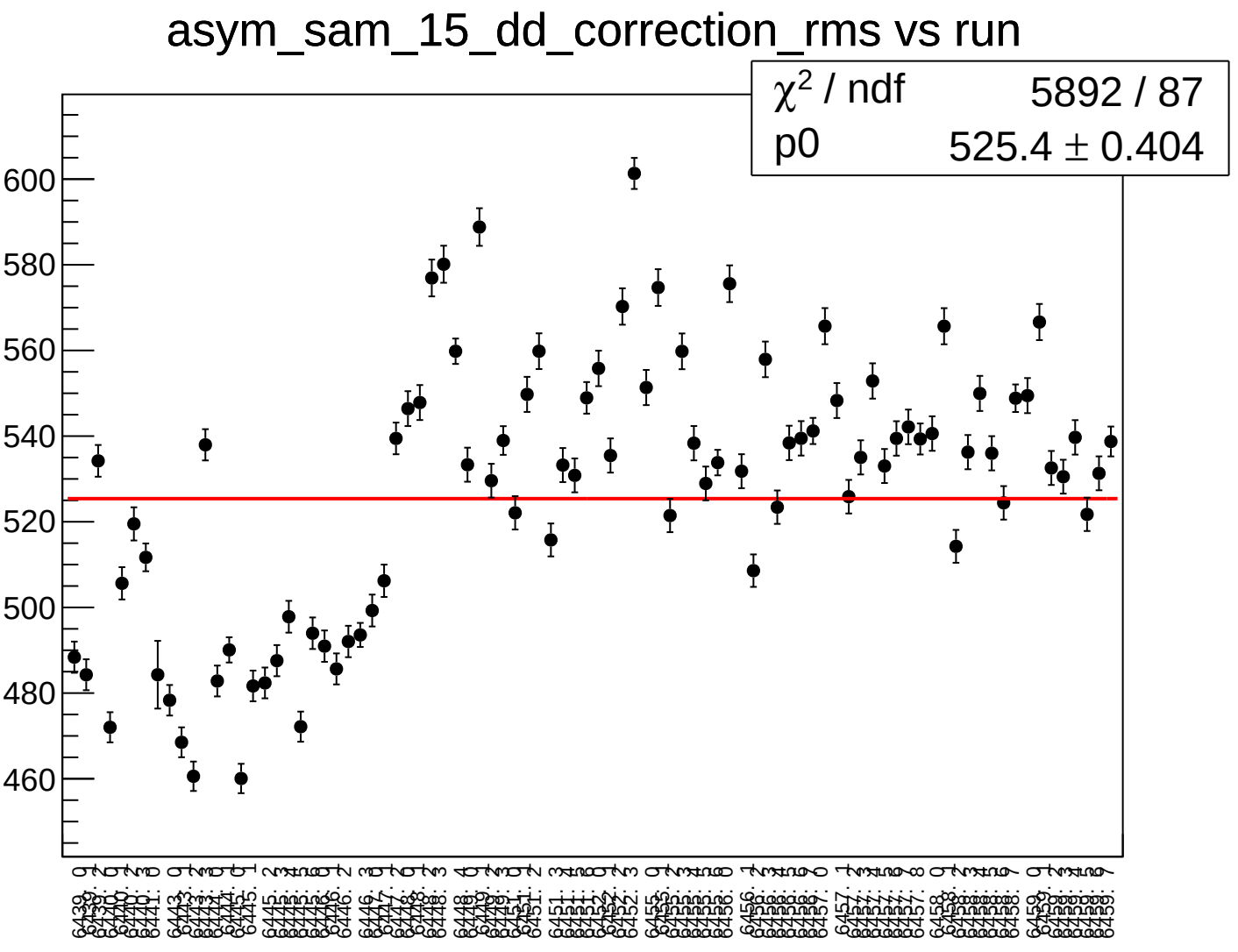

reg_asym_sam_15_dd_mean vs run
χ² / ndf 96.23 / 87
p0 −135.2 ± 91
pull
Entries 88
Mean −173.4
Std Dev 228.9

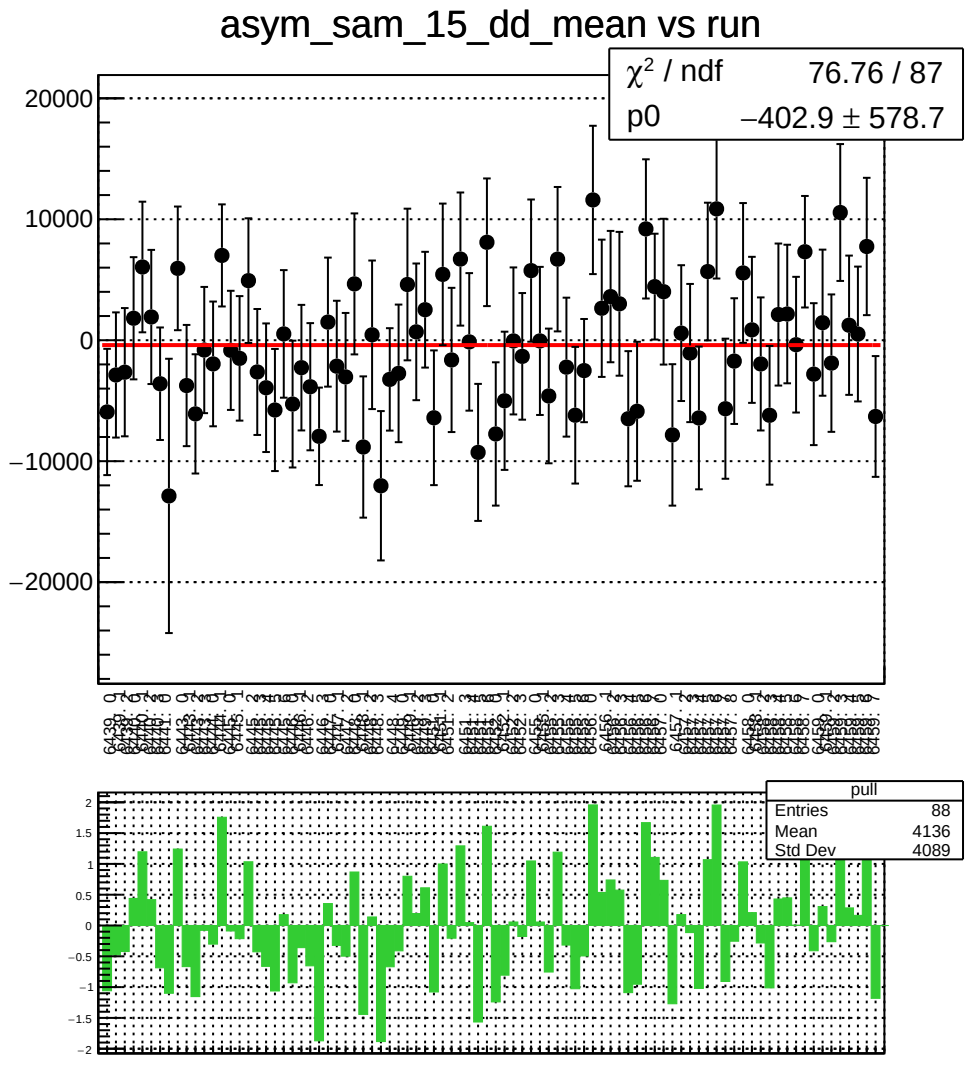

pull1D
Entries 88
Mean −0.01629
Std Dev 1.046

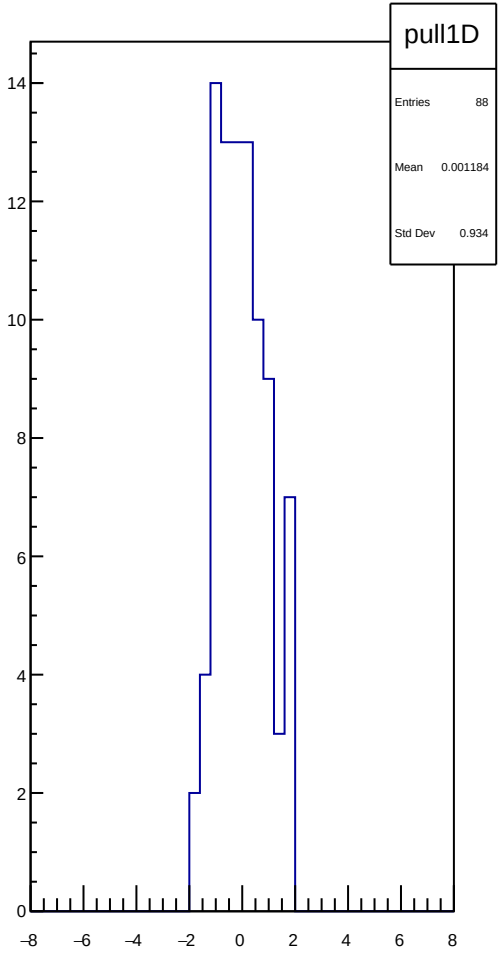

reg_asym_sam_15_dd_rms vs run
χ² / ndf 4851 / 87
p0 83.7 ± 0.06435
120
110
100
90
80

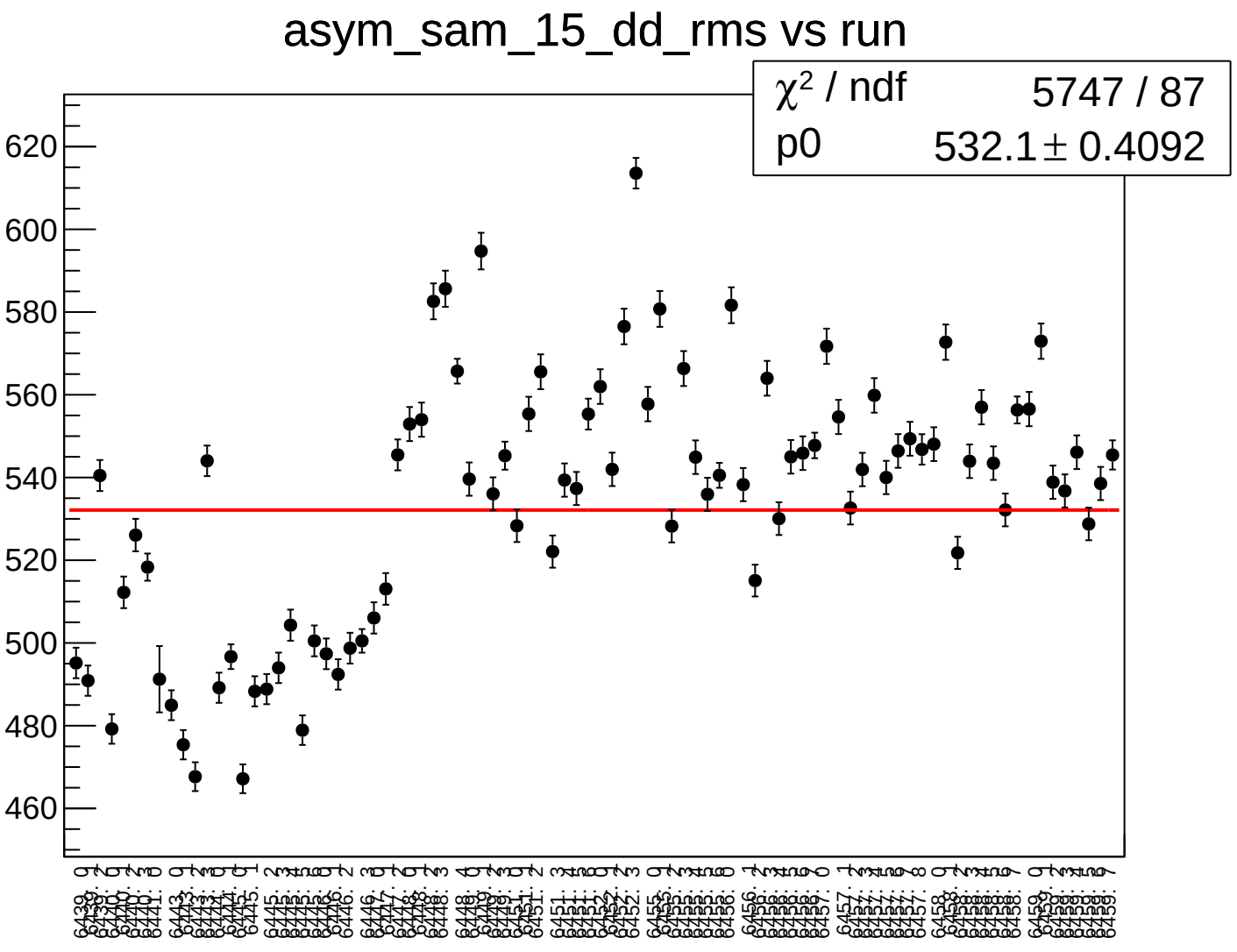

asym_sam_15_dd_correction_mean vs run
χ² / ndf 74.87 / 87
p0 259.6 ± 571.4
pull
Entries 88
Mean 1414
Std Dev 1368

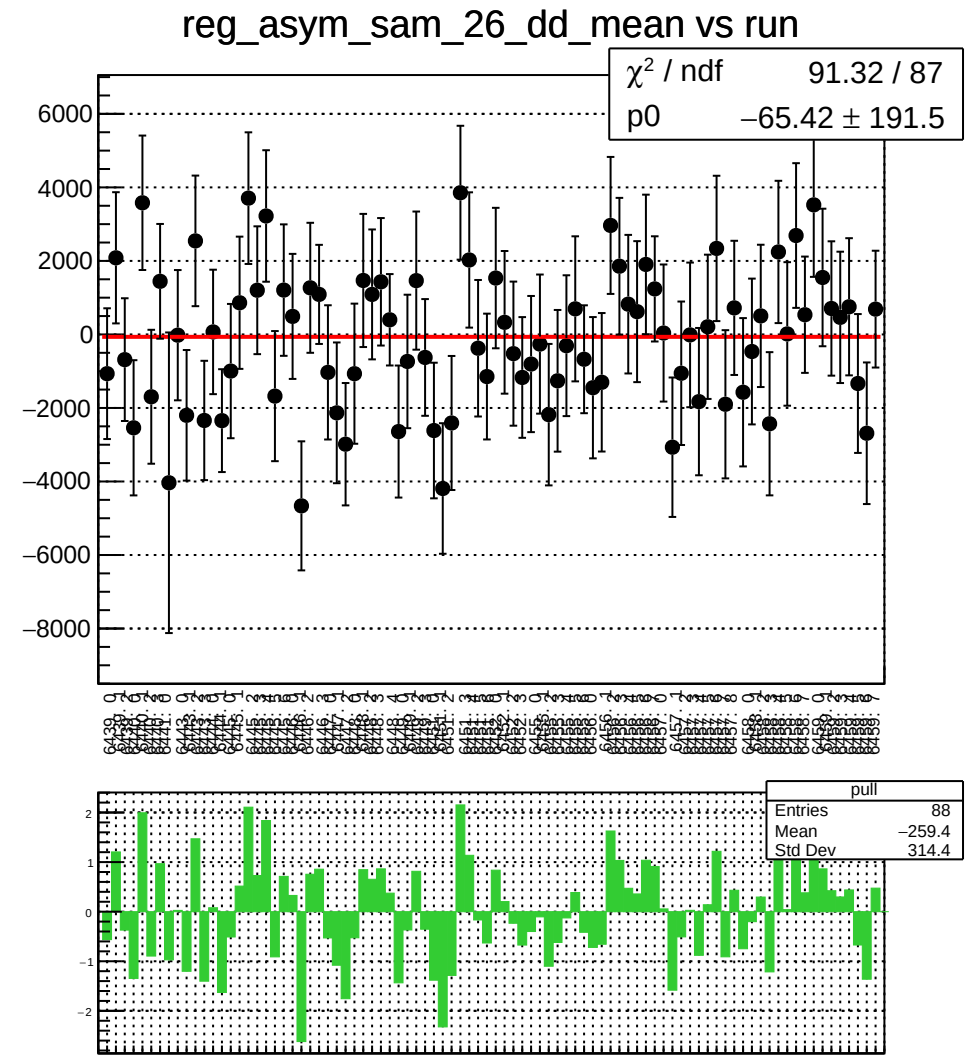

pull1D
Entries 88
Mean −0.003168
Std Dev 0.9224

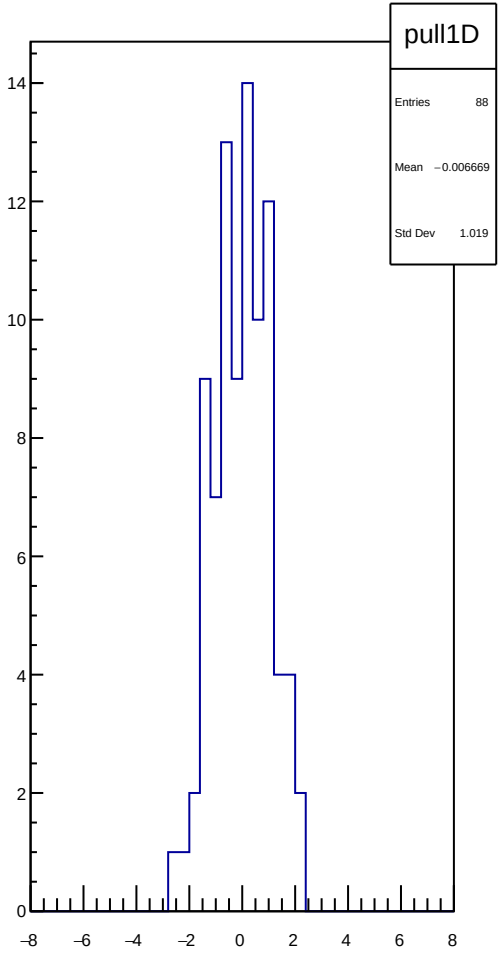

asym_sam_15_dd_correction_rms vs run
χ² / ndf 5892 / 87
p0 525.4 ± 0.404
600
580
560
540
520
500
480
460

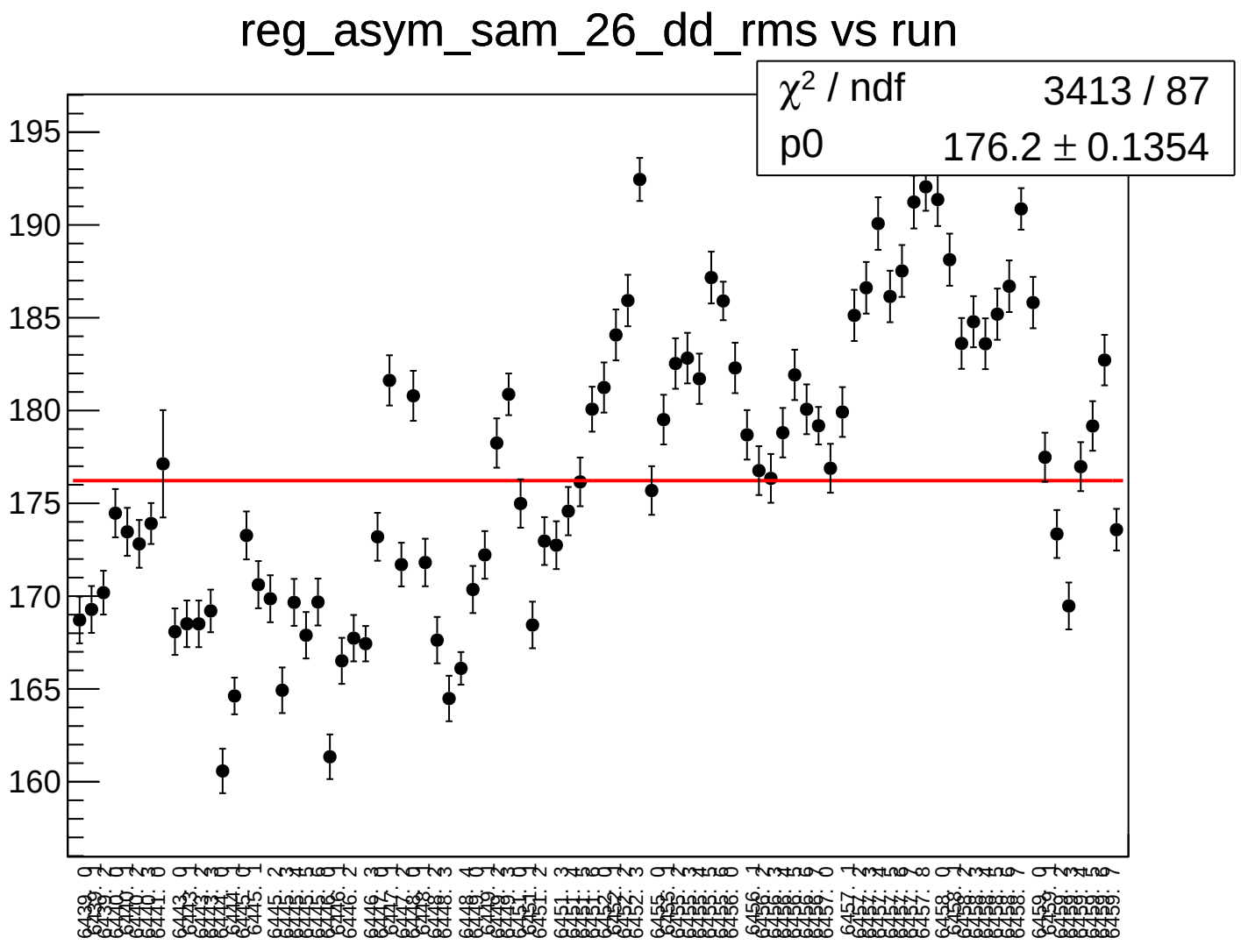

asym_sam_15_dd_mean vs run
χ² / ndf 76.76 / 87
p0 −402.9 ± 578.7
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 4136
Std Dev 4089
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

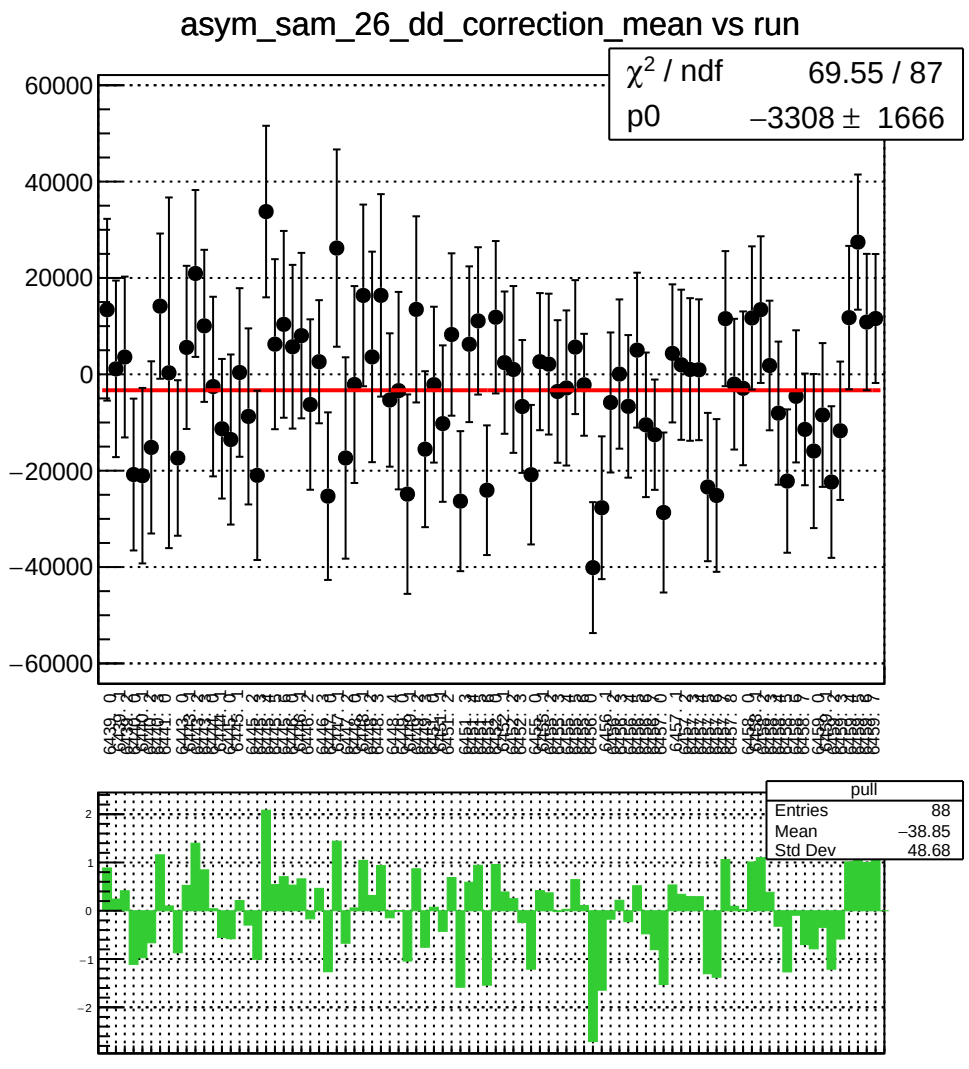

pull1D
Entries 88
Mean 0.001184
Std Dev 0.934
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

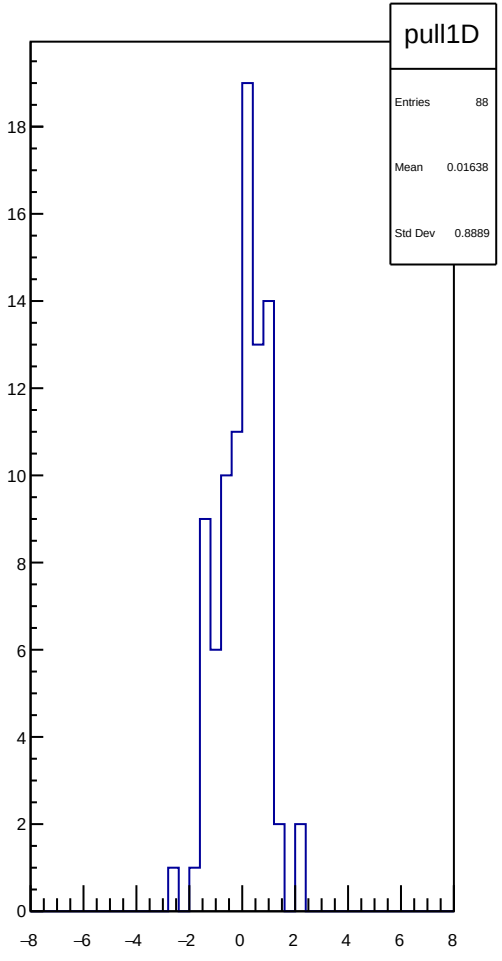

asym_sam_15_dd_rms vs run
χ² / ndf 5747 / 87
p0 532.1 ± 0.4092
620
600
580
560
540
520
500
480
460

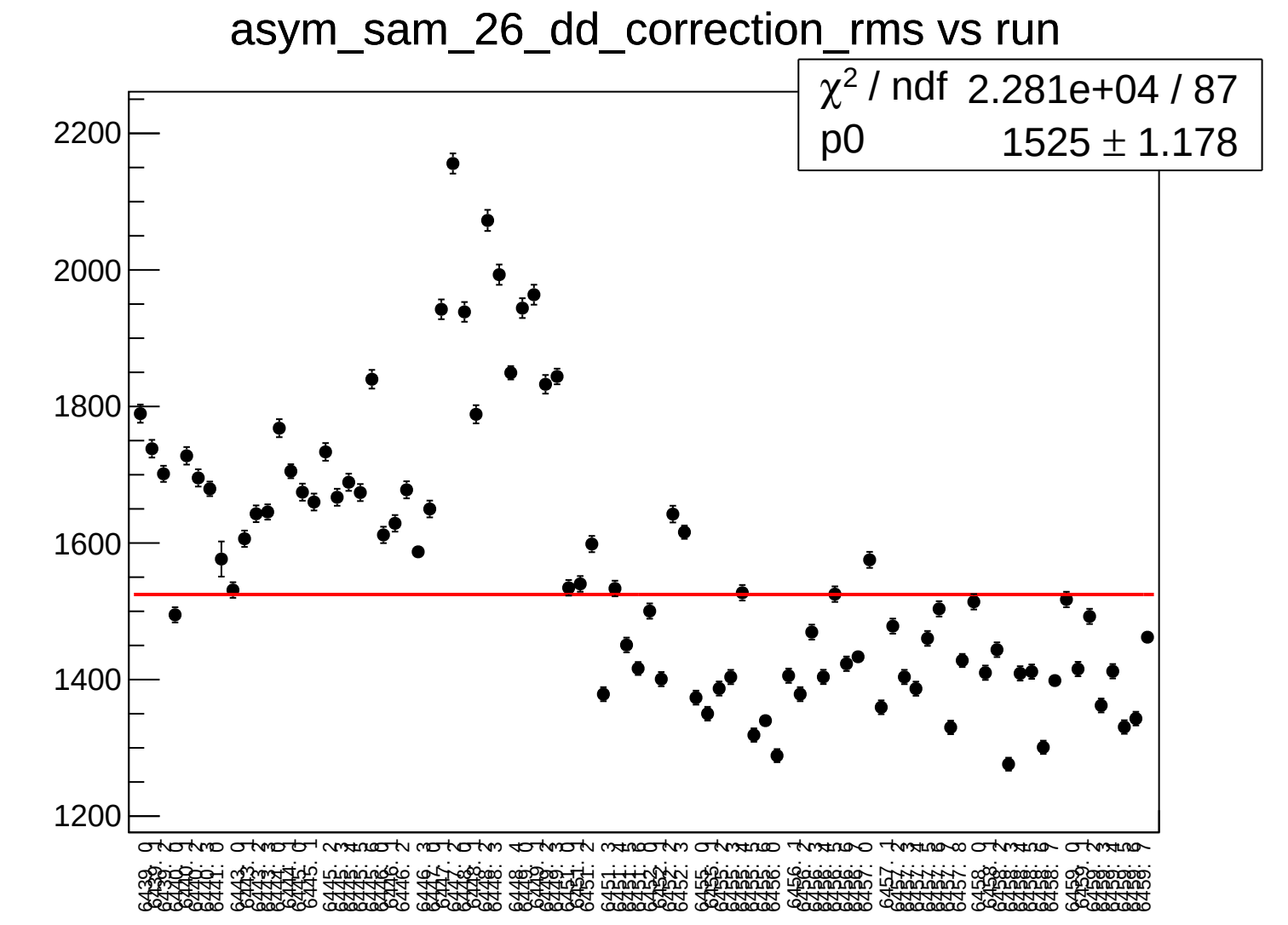

reg_asym_sam_26_dd_mean vs run
χ² / ndf 91.32 / 87
p0 −65.42 ± 191.5
pull
Entries 88
Mean −259.4
Std Dev 314.4

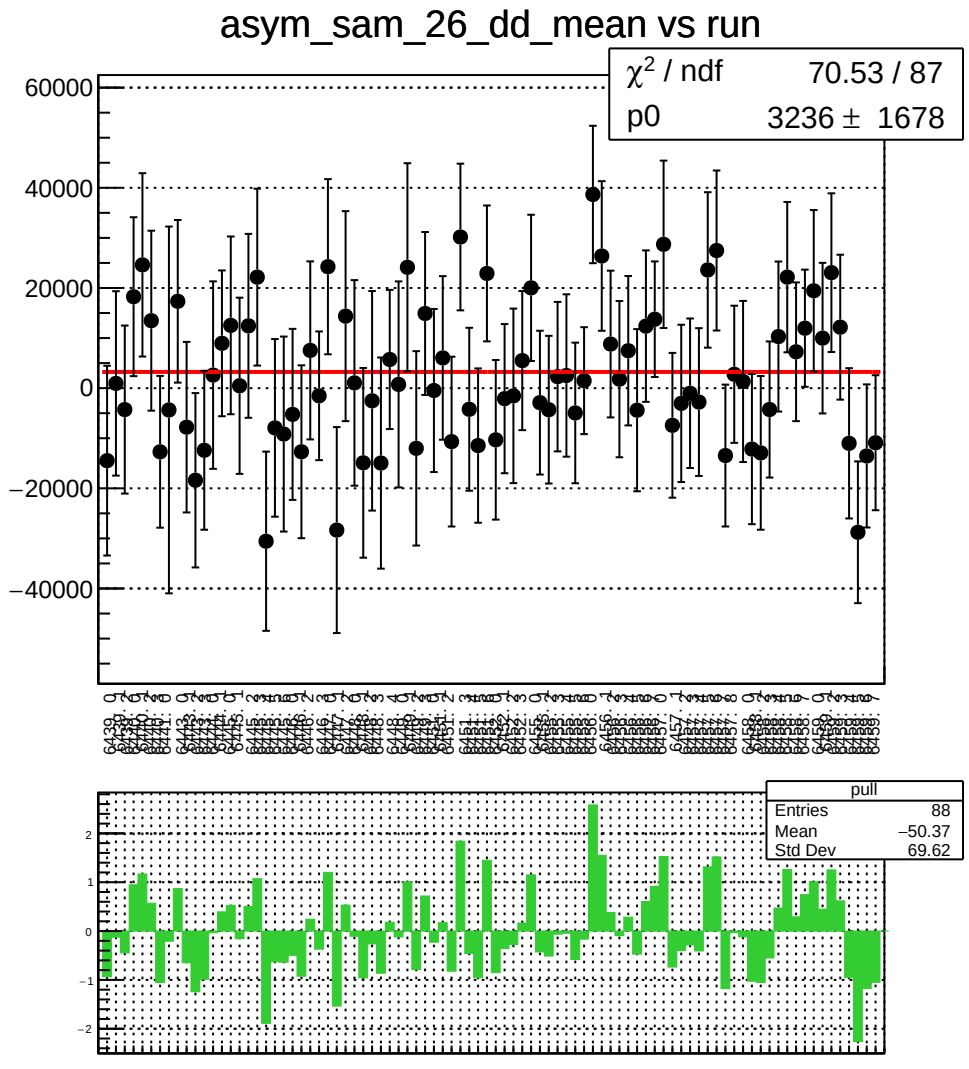

pull1D
Entries 88
Mean −0.006669
Std Dev 1.019

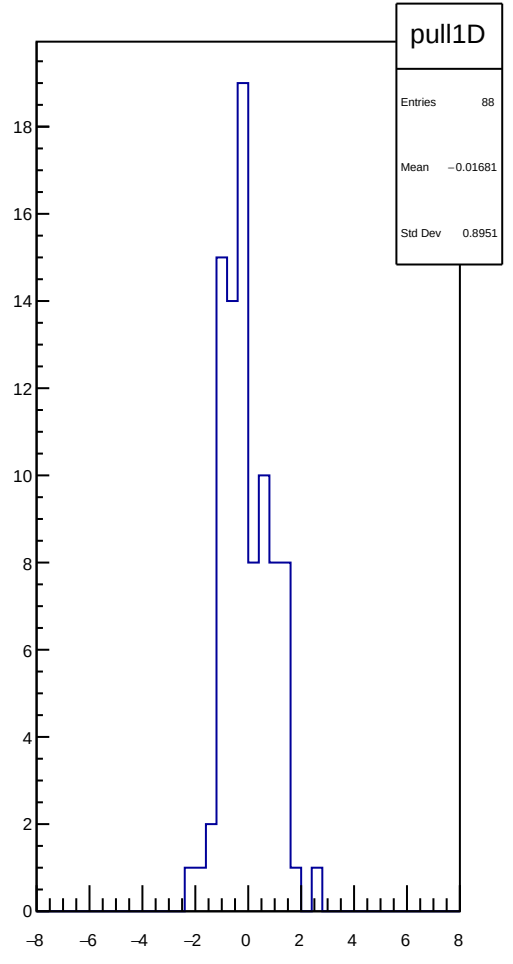

reg_asym_sam_26_dd_rms vs run
χ² / ndf 3413 / 87
p0 176.2 ± 0.1354
195
190
185
180
175
170
165
160

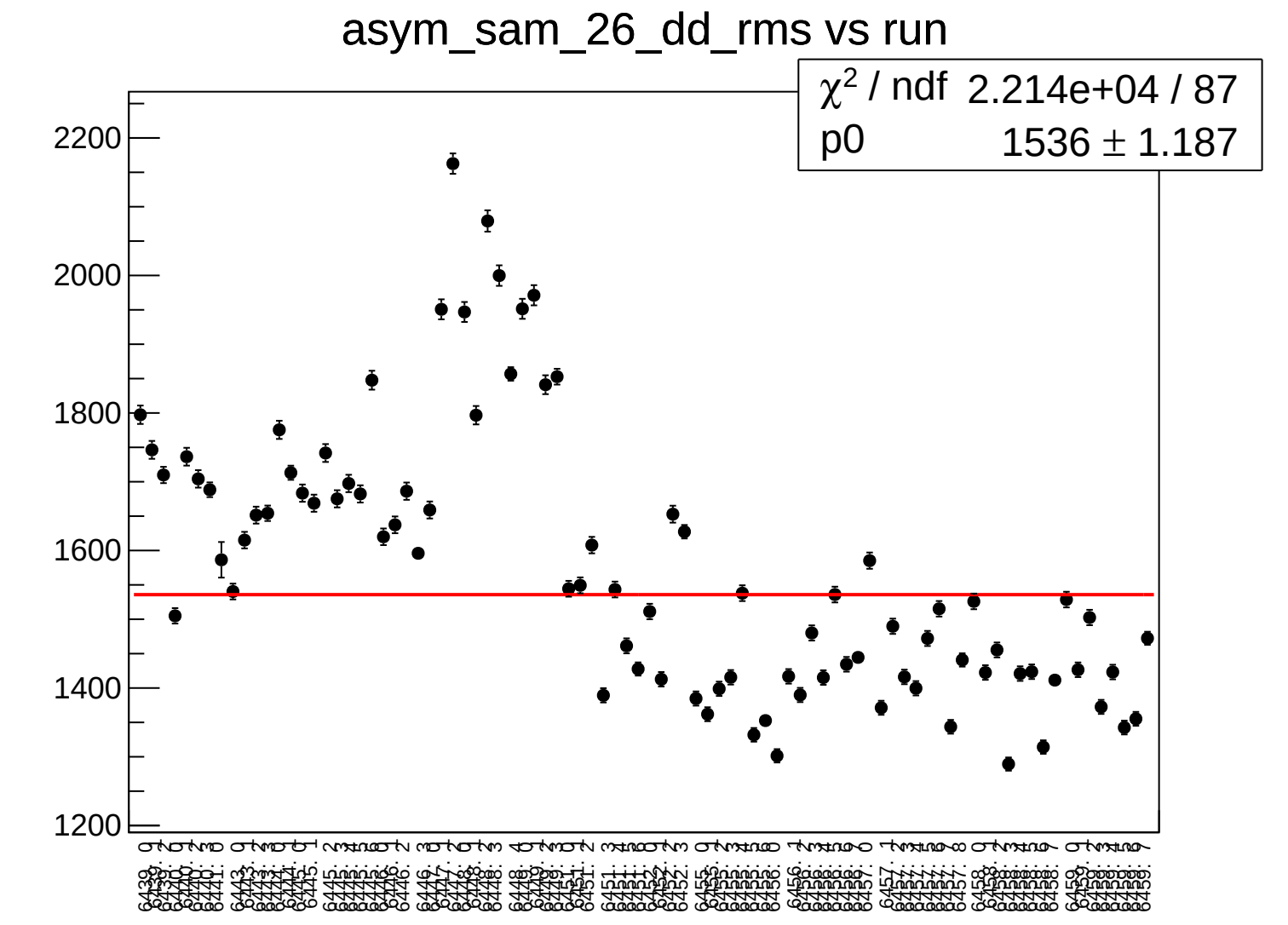

asym_sam_26_dd_correction_mean vs run
χ² / ndf 69.55 / 87
p0 −3308 ± 1666
pull
Entries 88
Mean −38.85
Std Dev 48.68

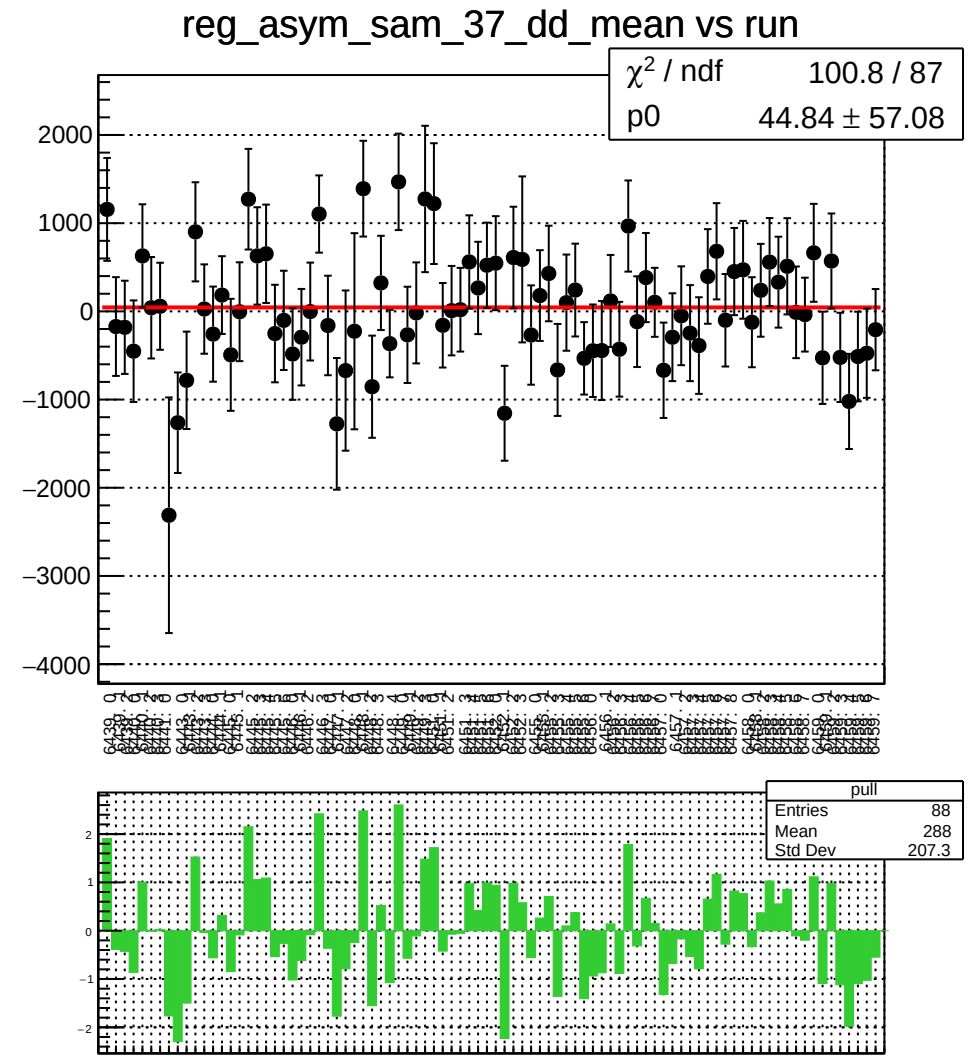

pull1D
Entries 88
Mean 0.01638
Std Dev 0.8889

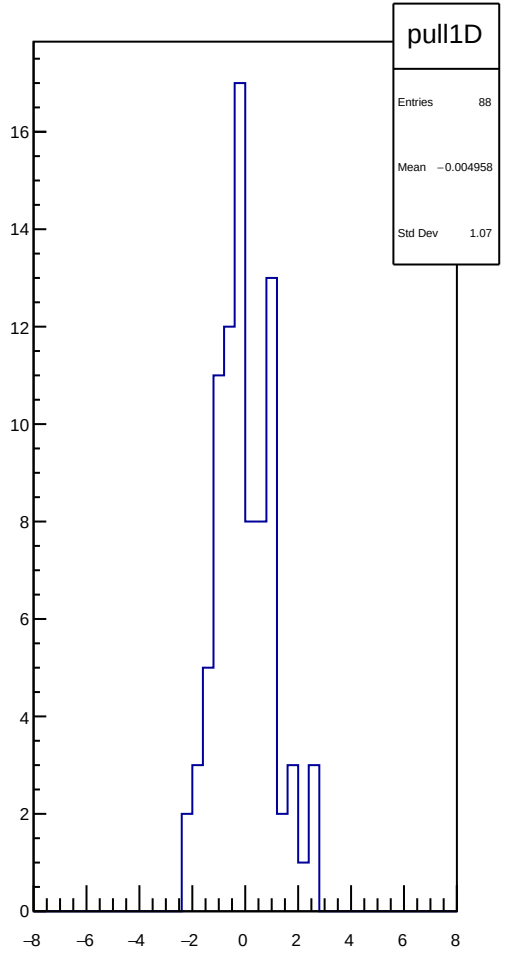

asym_sam_26_dd_correction_rms vs run
χ² / ndf 2.281e+04 / 87
p0 1525 ± 1.178
2200
2000
1800
1600
1400
1200

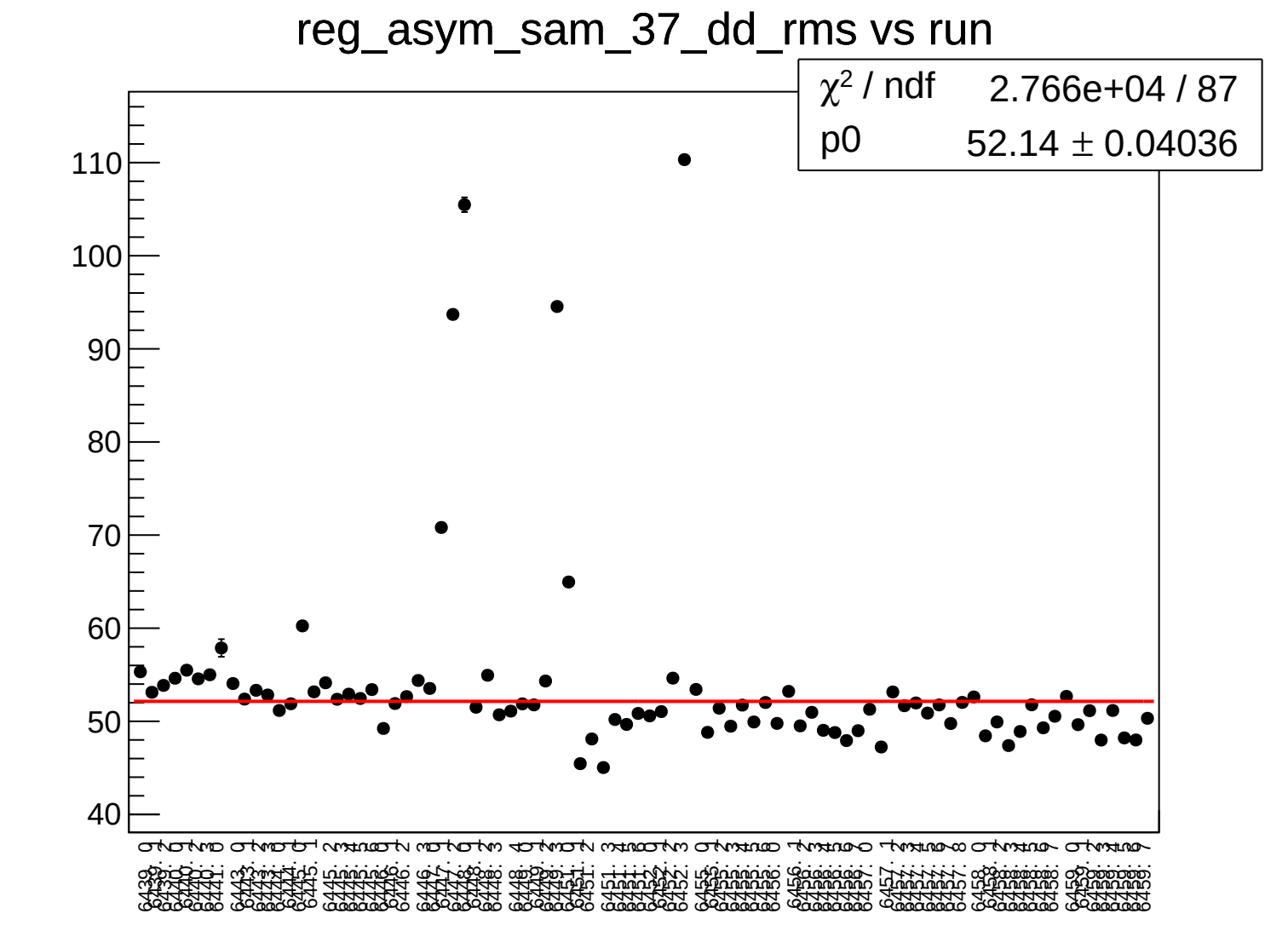

asym_sam_26_dd_mean vs run
χ² / ndf 70.53 / 87
p0 3236 ± 1678
pull
Entries 88
Mean −50.37
Std Dev 69.62

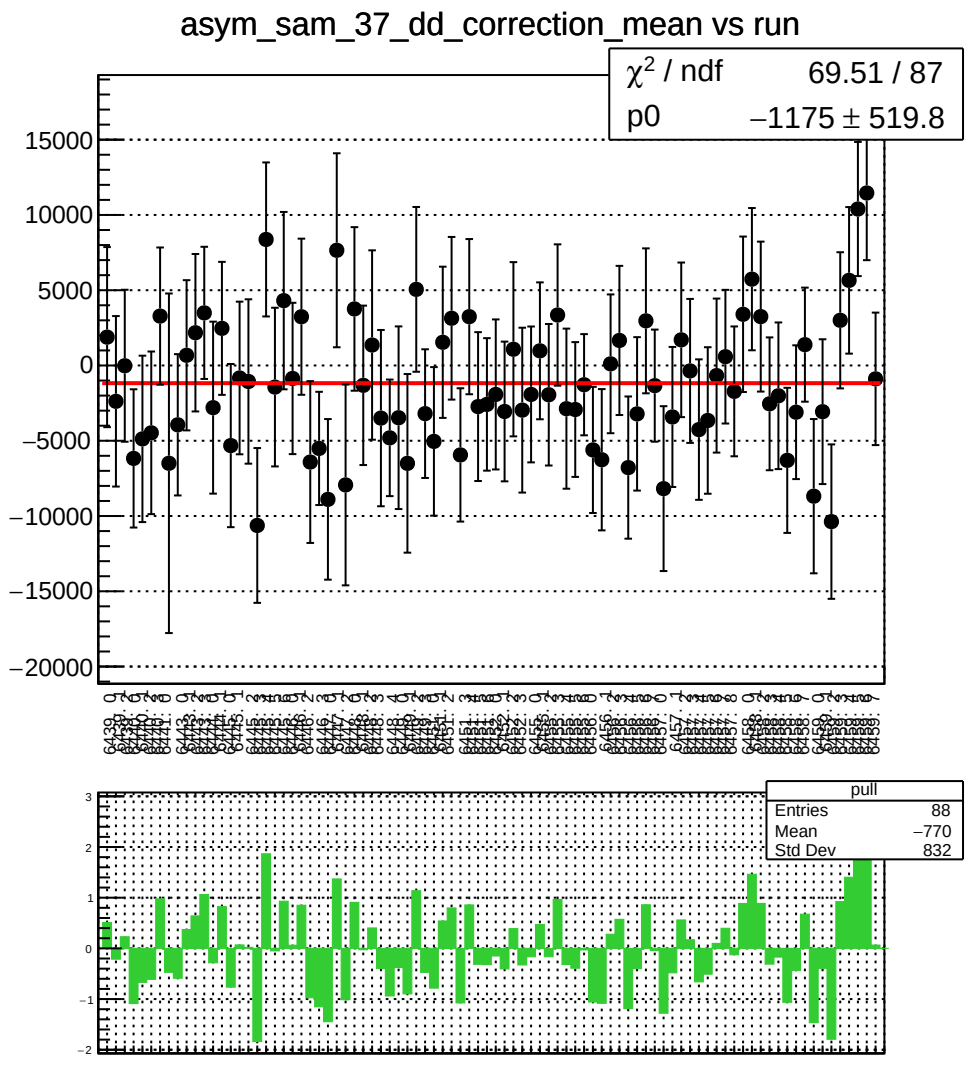

pull1D
Entries 88
Mean −0.01681
Std Dev 0.8951

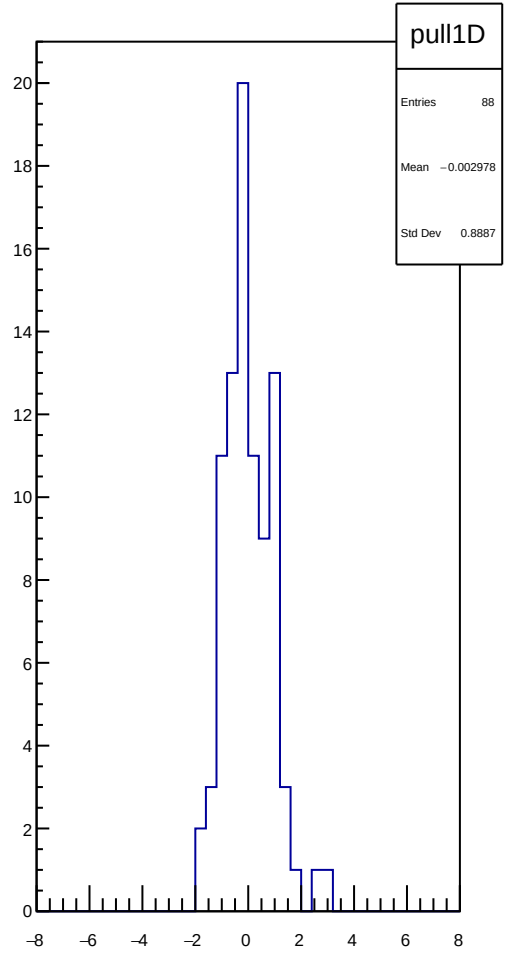

asym_sam_26_dd_rms vs run
χ² / ndf 2.214e+04 / 87
p0 1536 ± 1.187
2200
2000
1800
1600
1400
1200

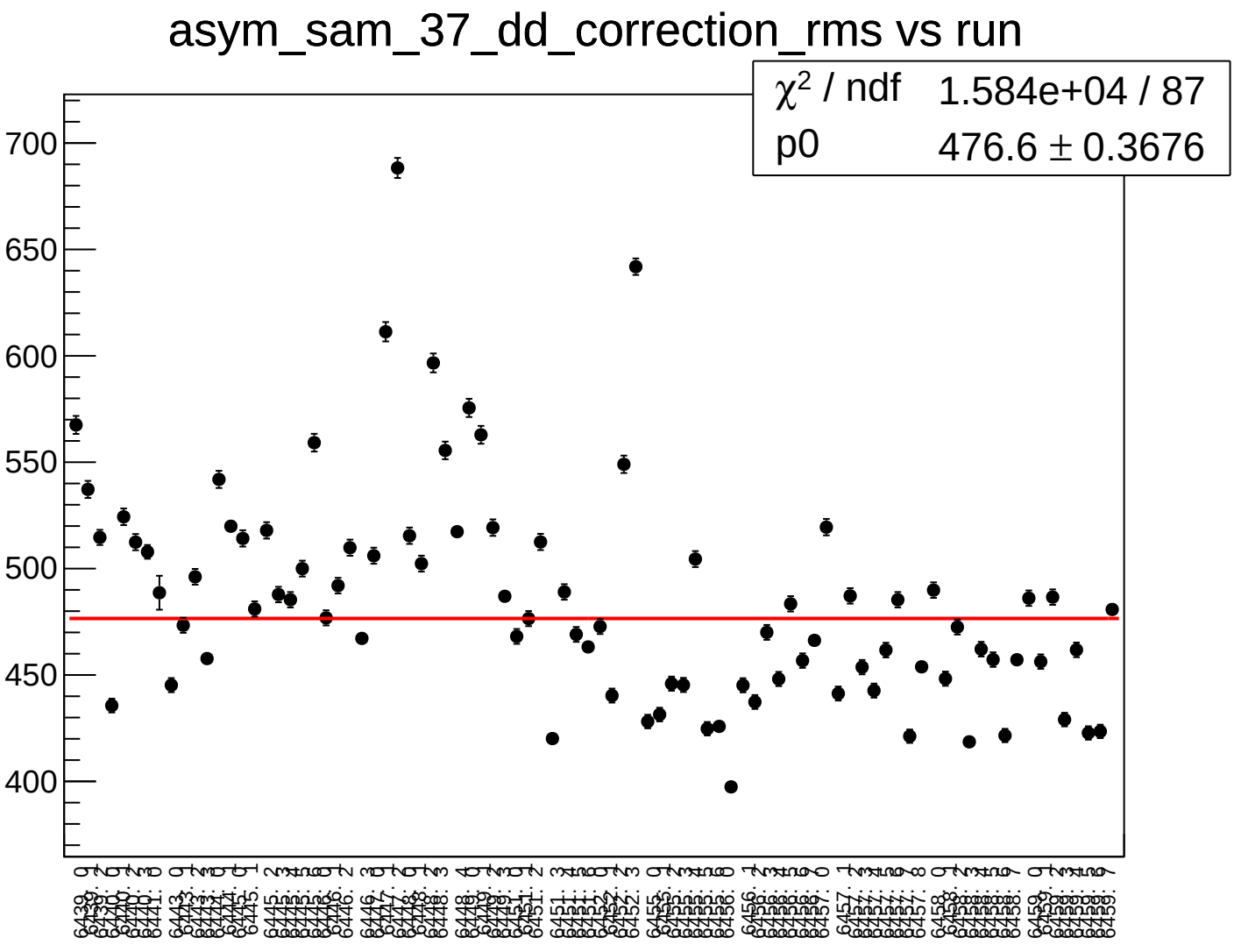

reg_asym_sam_37_dd_mean vs run
χ² / ndf 100.8 / 87
p0 44.84 ± 57.08
pull
Entries 88
Mean 288
Std Dev 207.3

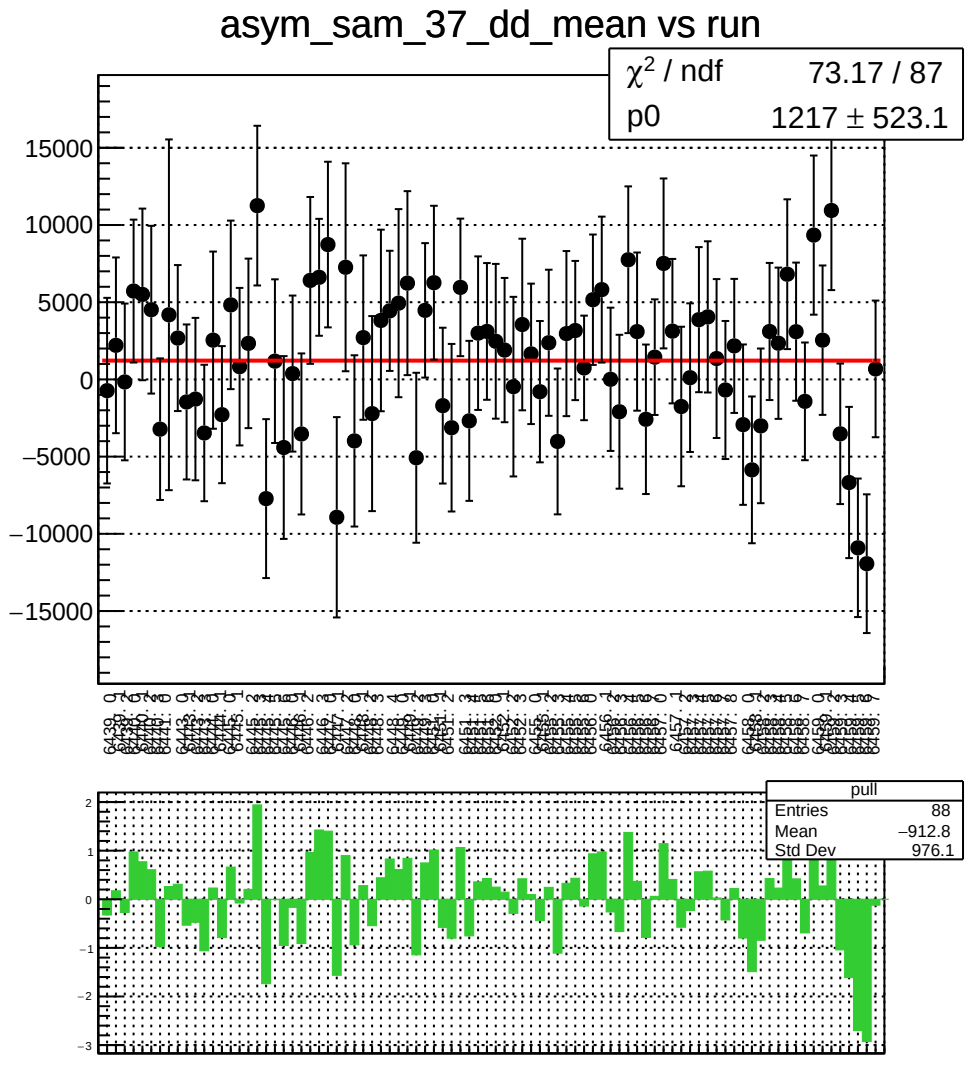

pull1D
Entries 88
Mean −0.004958
Std Dev 1.07

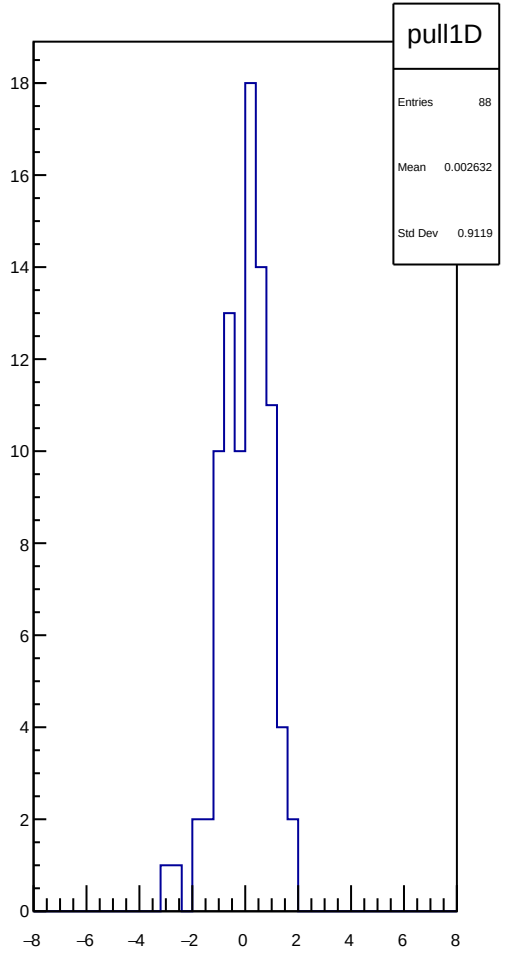

reg_asym_sam_37_dd_rms vs run
χ² / ndf 2.766e+04 / 87
p0 52.14 ± 0.04036
110
100
90
80
70
60
50
40

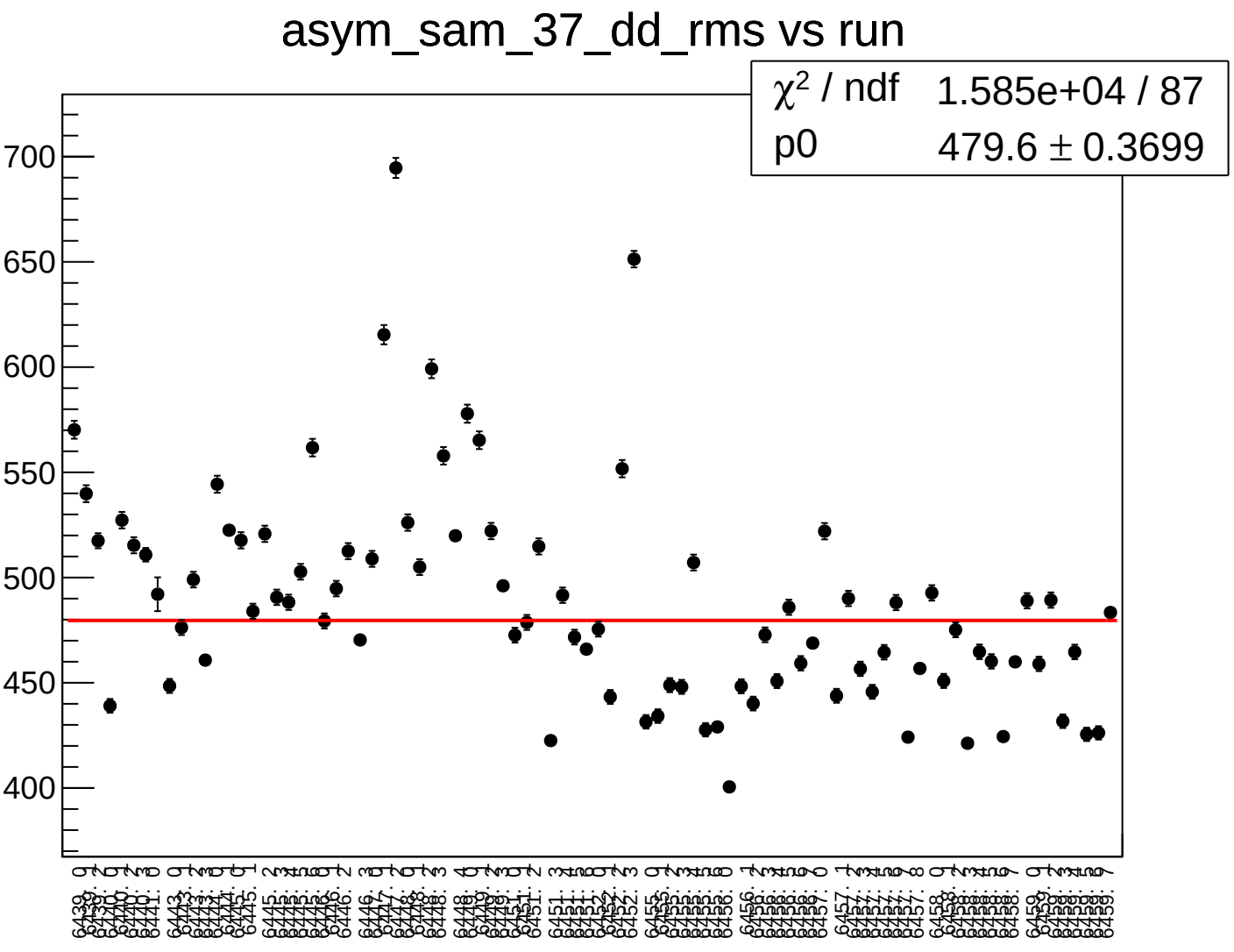

asym_sam_37_dd_correction_mean vs run
χ² / ndf 69.51 / 87
p0 −1175 ± 519.8
pull
Entries 88
Mean −770
Std Dev 832

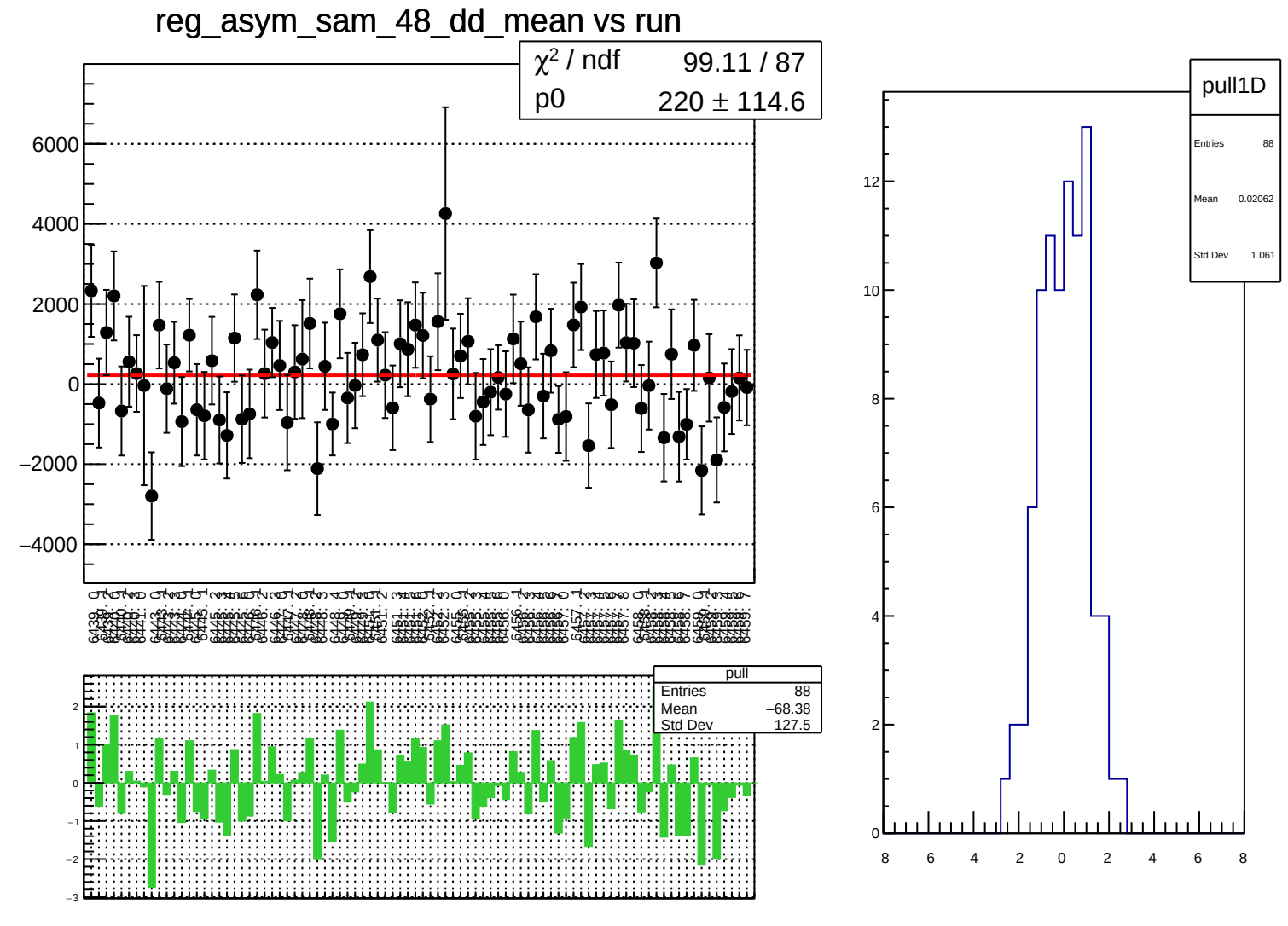

pull1D
Entries 88
Mean −0.002978
Std Dev 0.8887

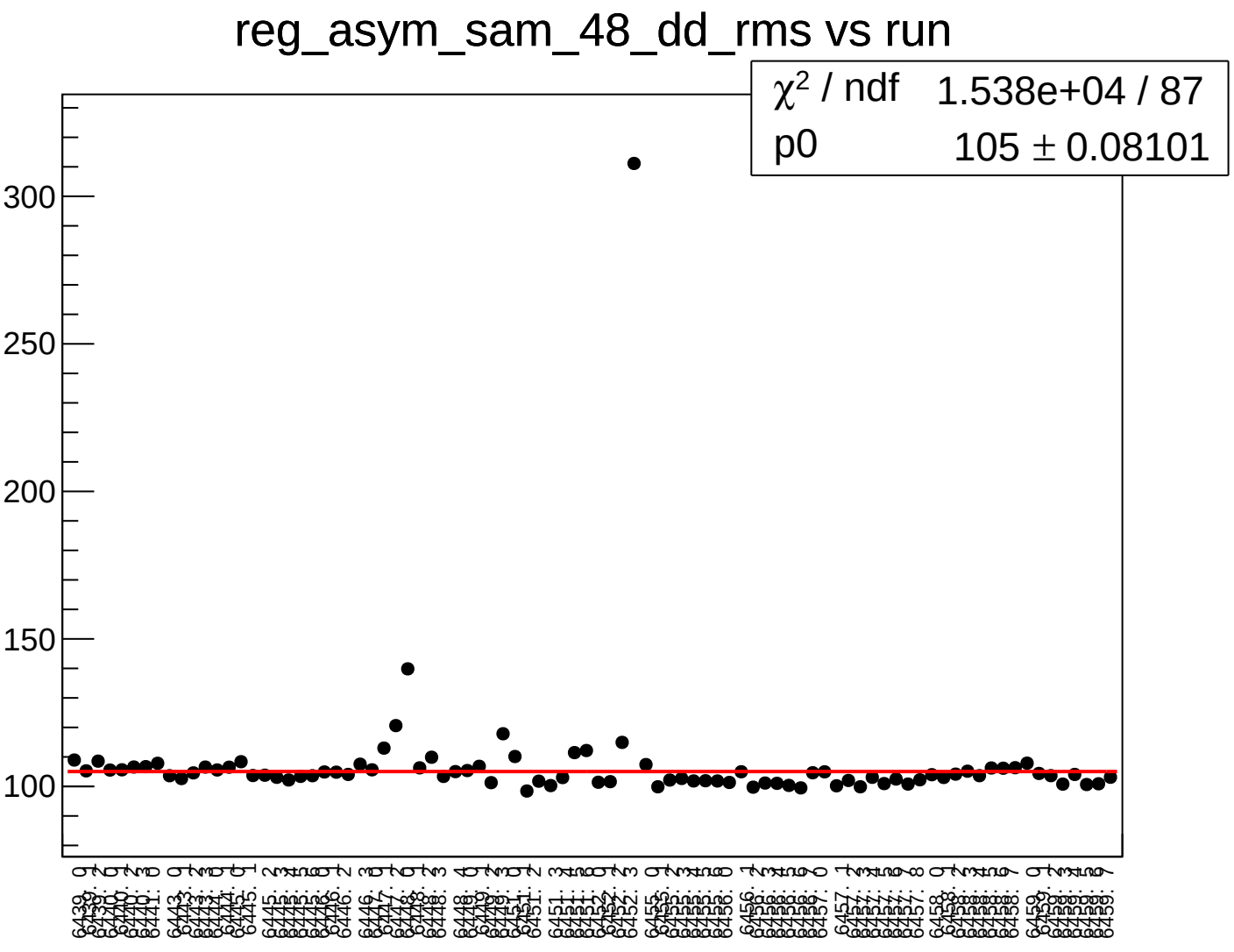

asym_sam_37_dd_correction_rms vs run
χ² / ndf 1.584e+04 / 87
p0 476.6 ± 0.3676
700
650
600
550
500
450
400

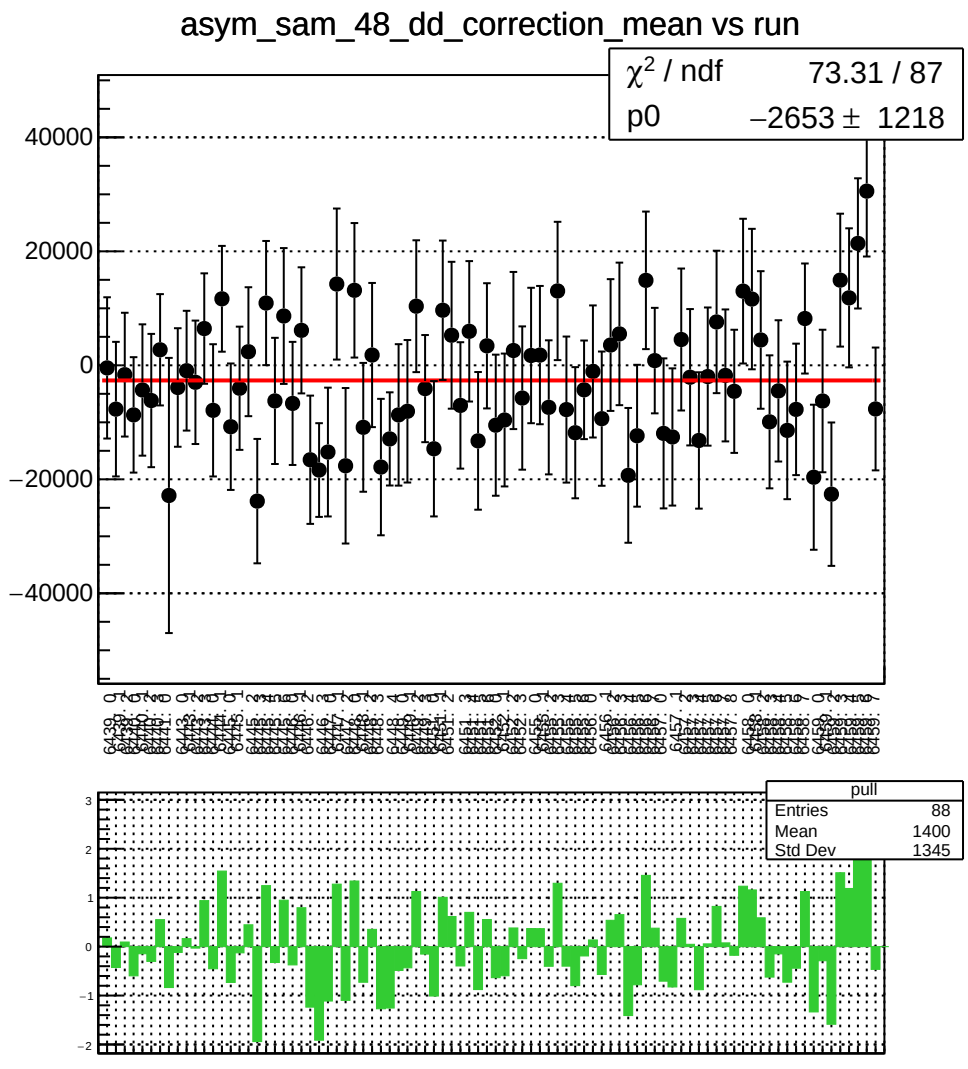

asym_sam_37_dd_mean vs run
χ² / ndf 73.17 / 87
p0 1217 ± 523.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −912.8
Std Dev 976.1
2
1
0
−1
−2
−3

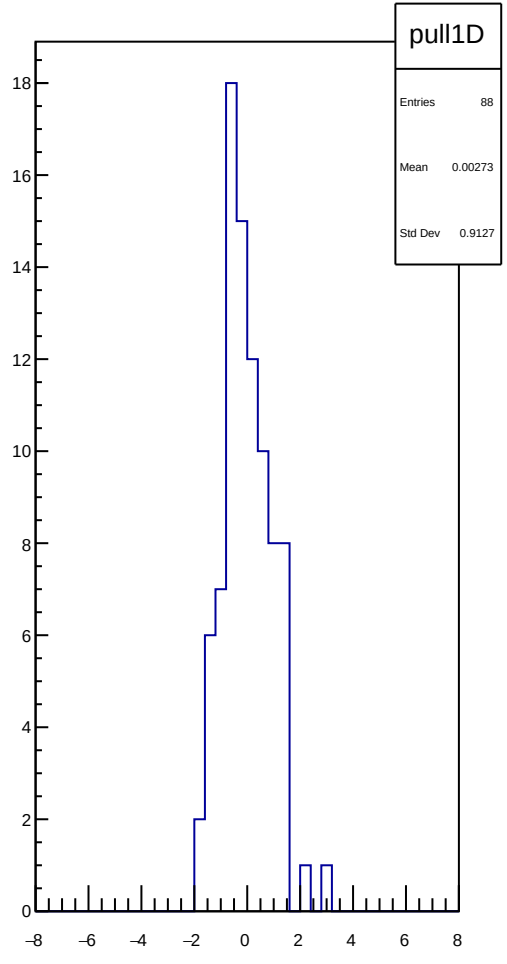

pull1D
Entries 88
Mean 0.002632
Std Dev 0.9119
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

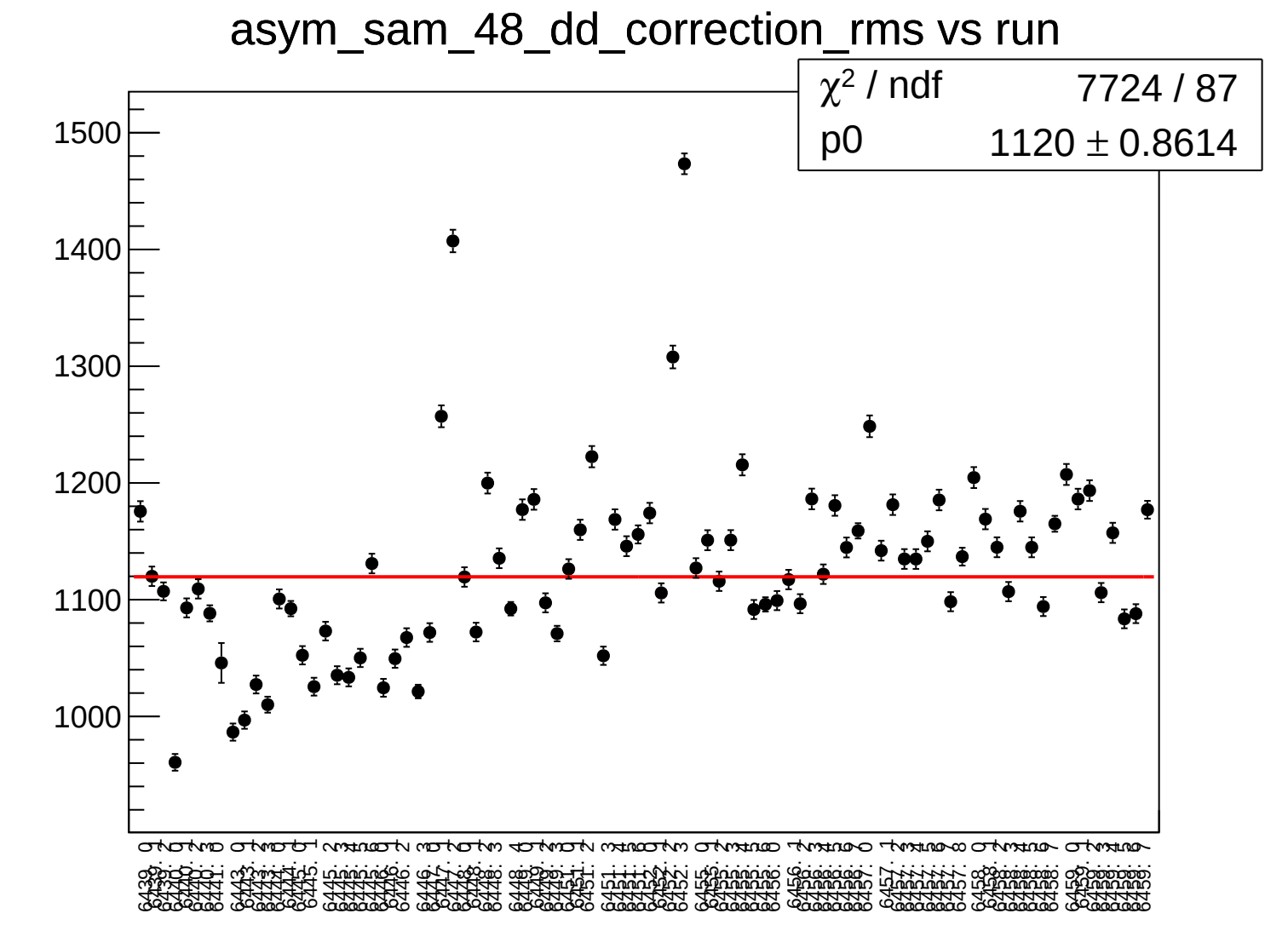

asym_sam_37_dd_rms vs run
χ² / ndf 1.585e+04 / 87
p0 479.6 ± 0.3699
700
650
600
550
500
450
400

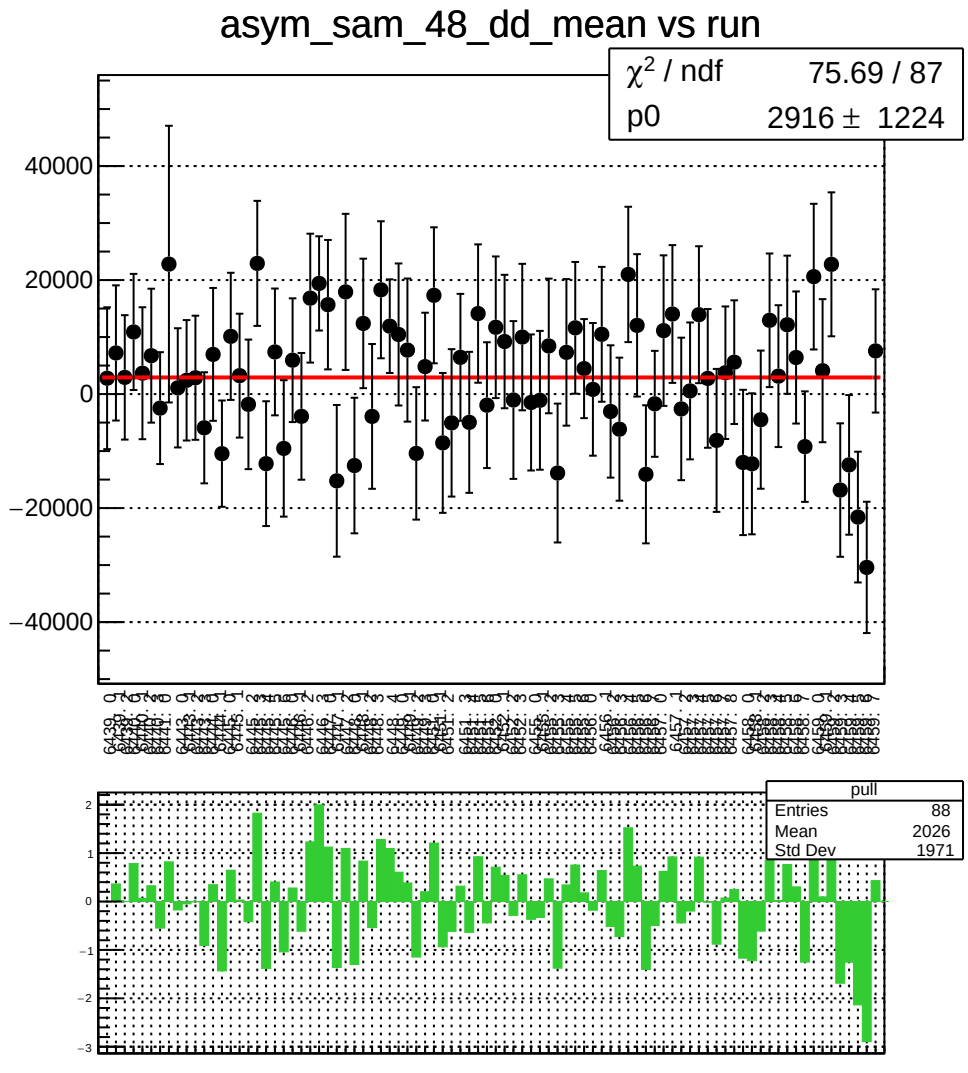

reg_asym_sam_48_dd_mean vs run
χ² / ndf 99.11 / 87
p0 220 ± 114.6
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −68.38
Std Dev 127.5
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.02062
Std Dev 1.061
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

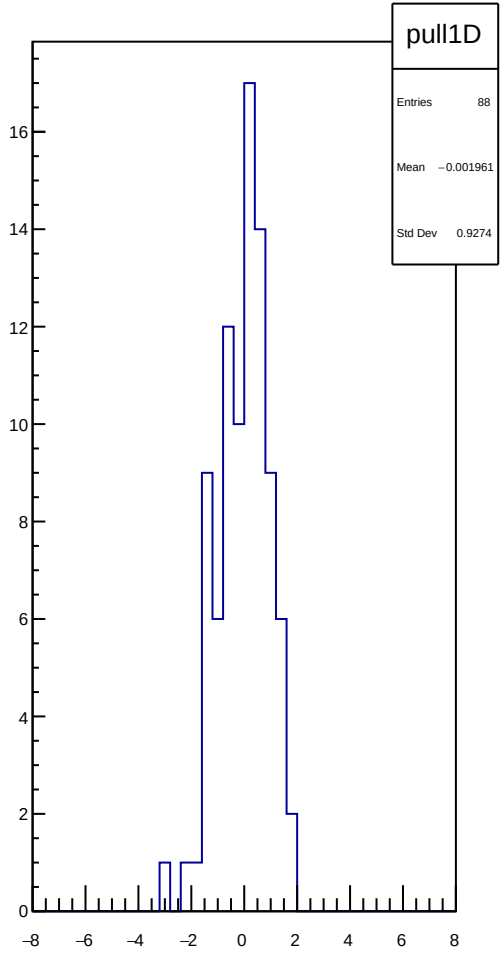

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1.538e+04 / 87
p0 105 ± 0.08101
300
250
200
150
100

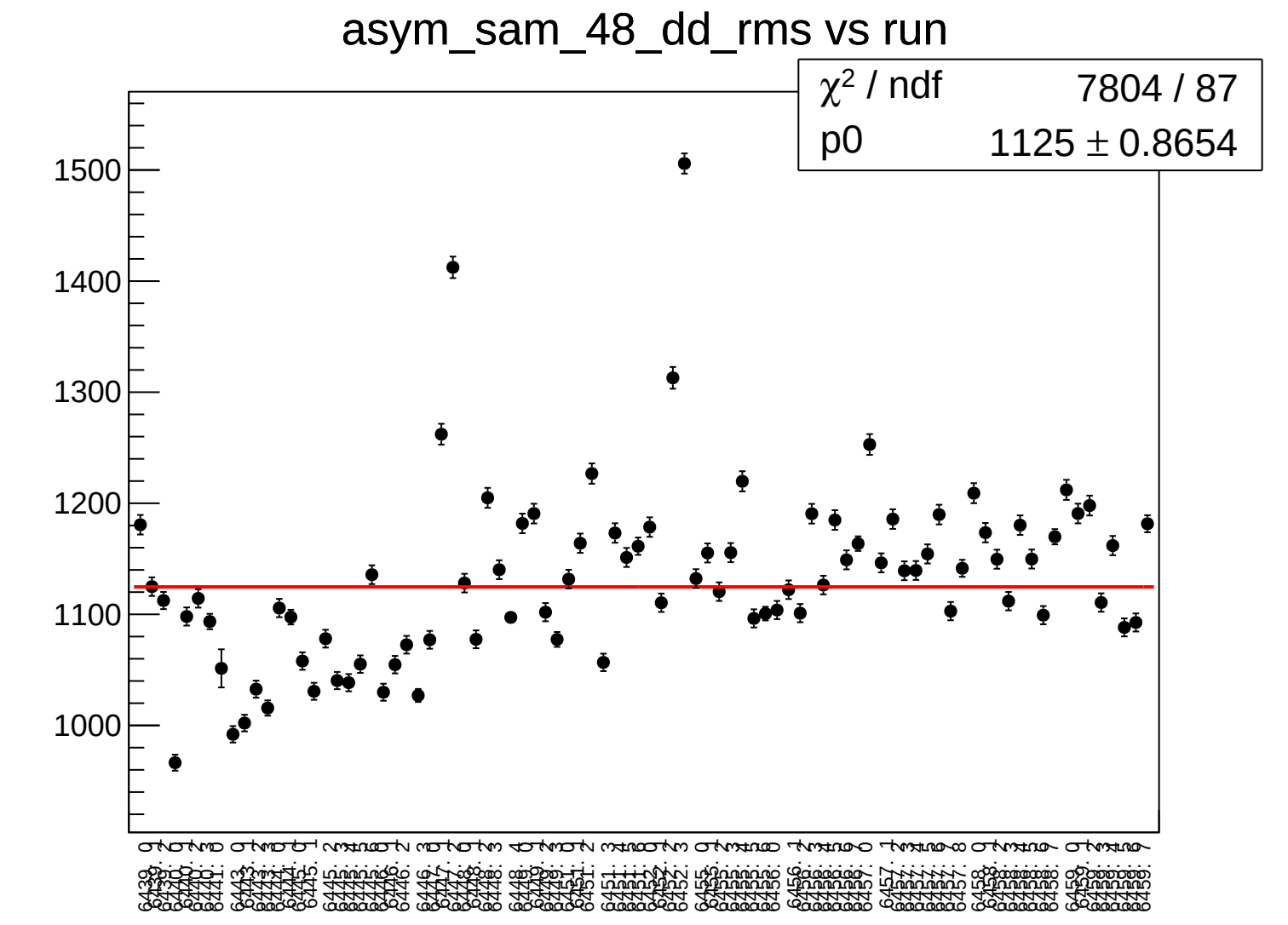

asym_sam_48_dd_correction_mean vs run
χ² / ndf 73.31 / 87
p0 −2653 ± 1218
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 1400
Std Dev 1345
3
2
1
0
−1
−2

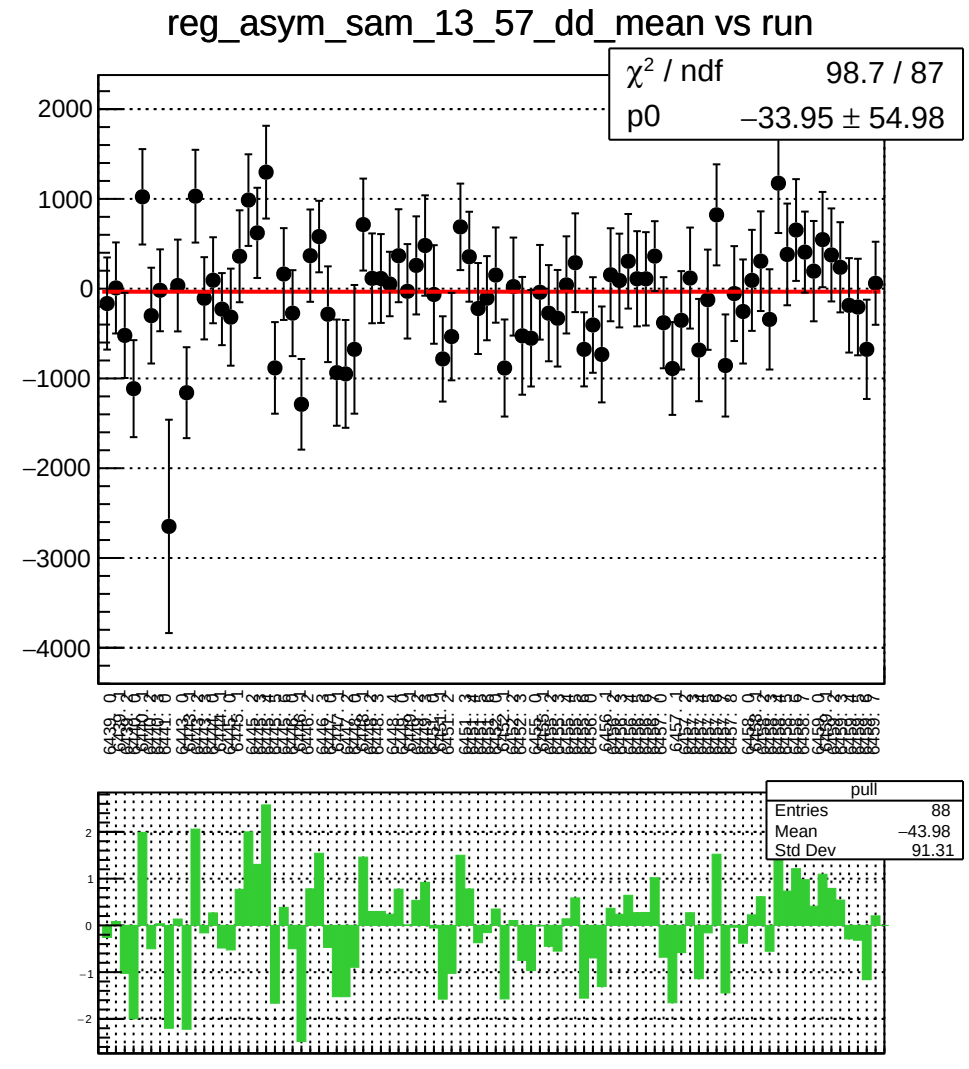

pull1D
Entries 88
Mean 0.00273
Std Dev 0.9127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

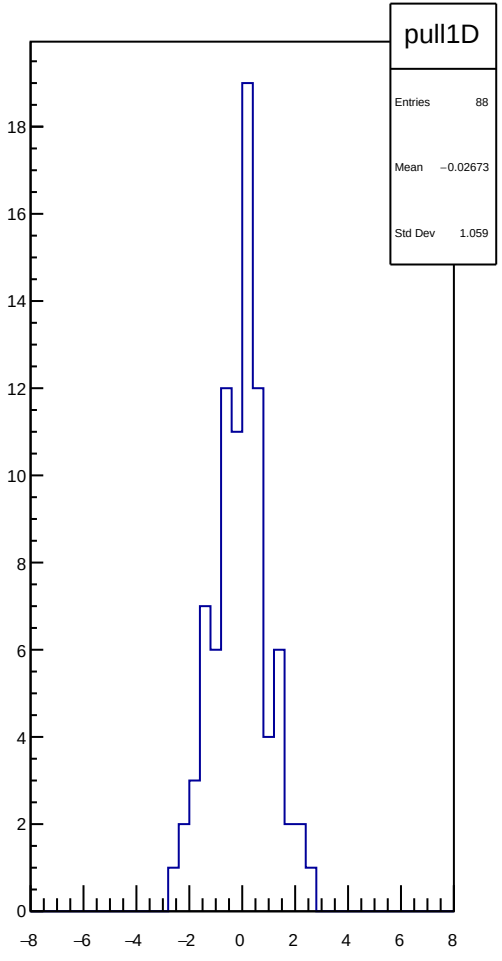

asym_sam_48_dd_correction_rms vs run
χ² / ndf 7724 / 87
p0 1120 ± 0.8614
1500
1400
1300
1200
1100
1000

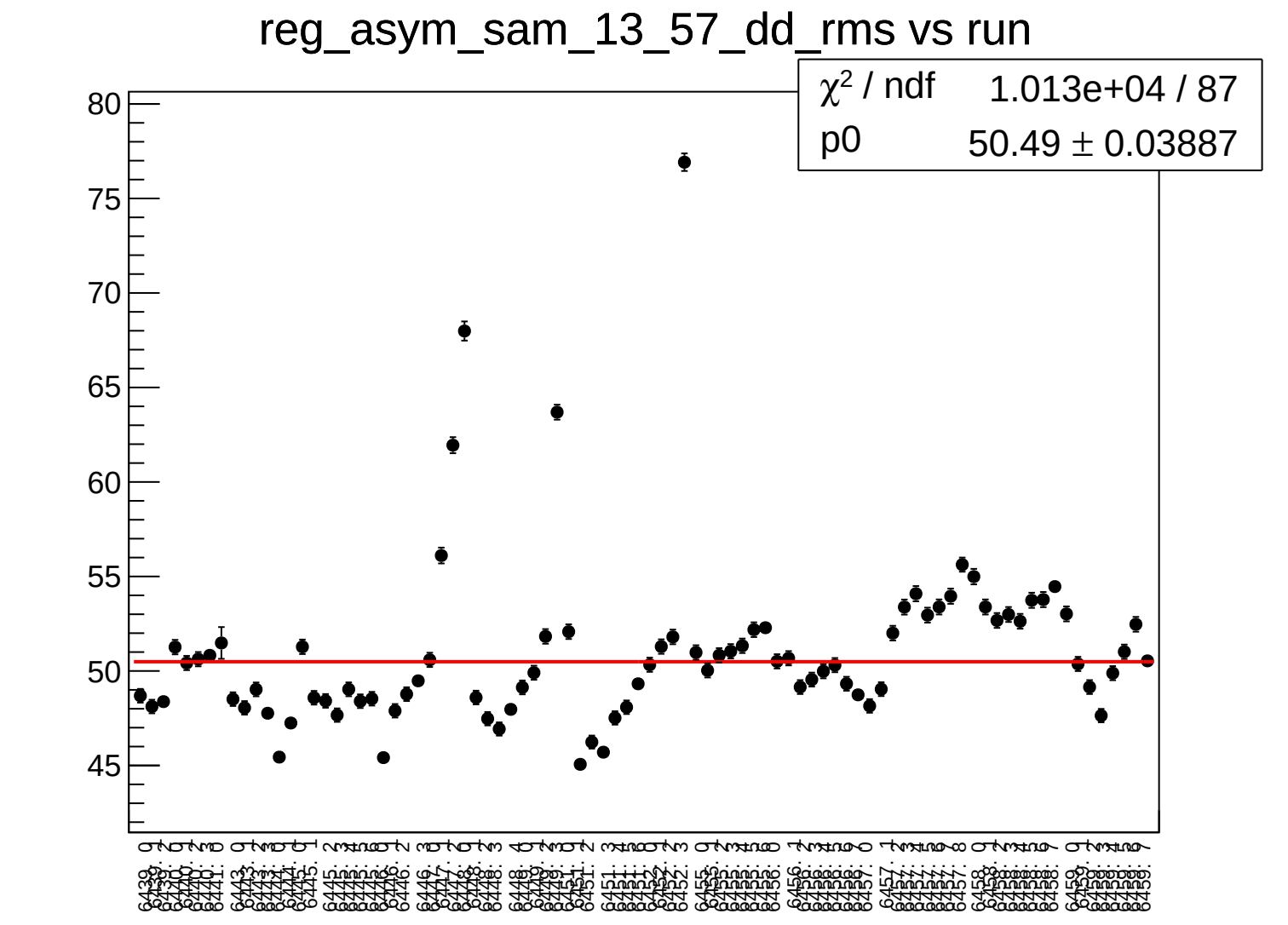

asym_sam_48_dd_mean vs run
χ² / ndf 75.69 / 87
p0 2916 ± 1224
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 2026
Std Dev 1971
2
1
0
−1
−2
−3

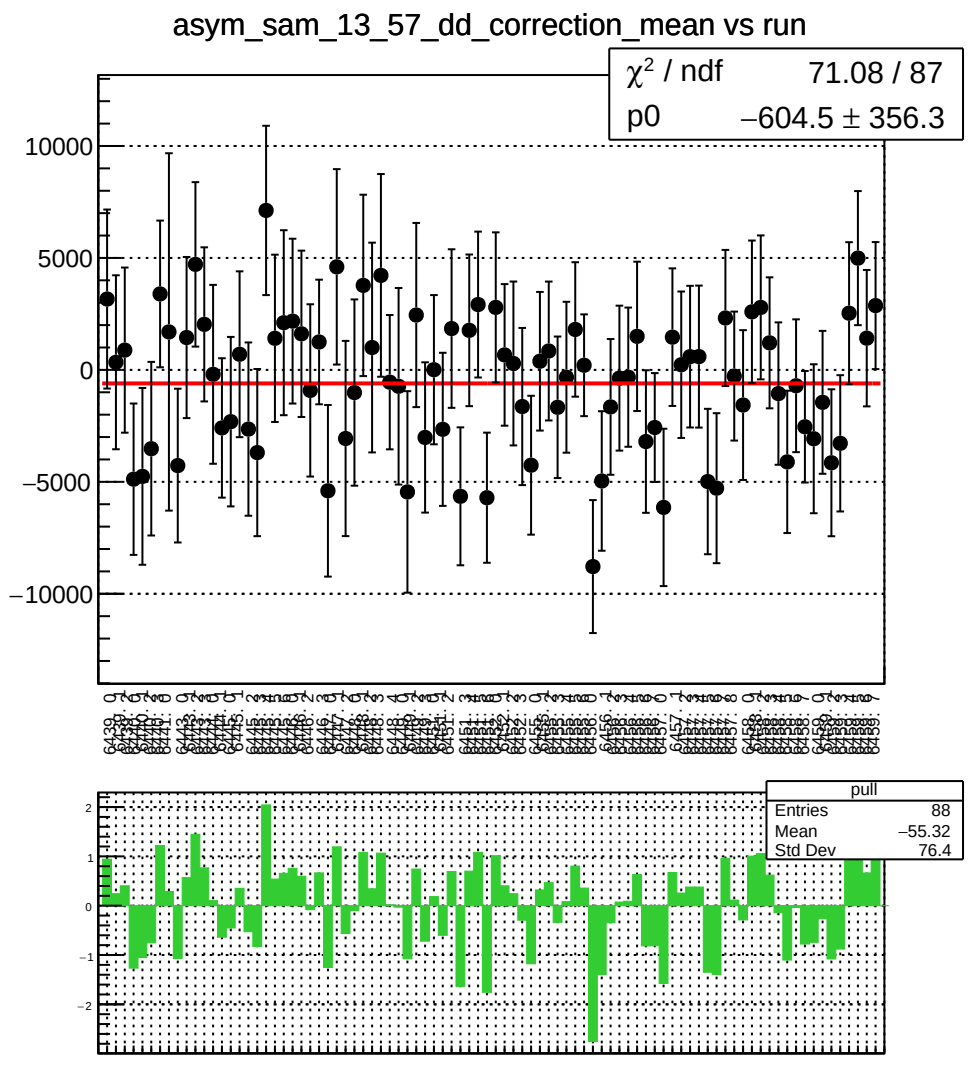

pull1D
Entries 88
Mean −0.001961
Std Dev 0.9274
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

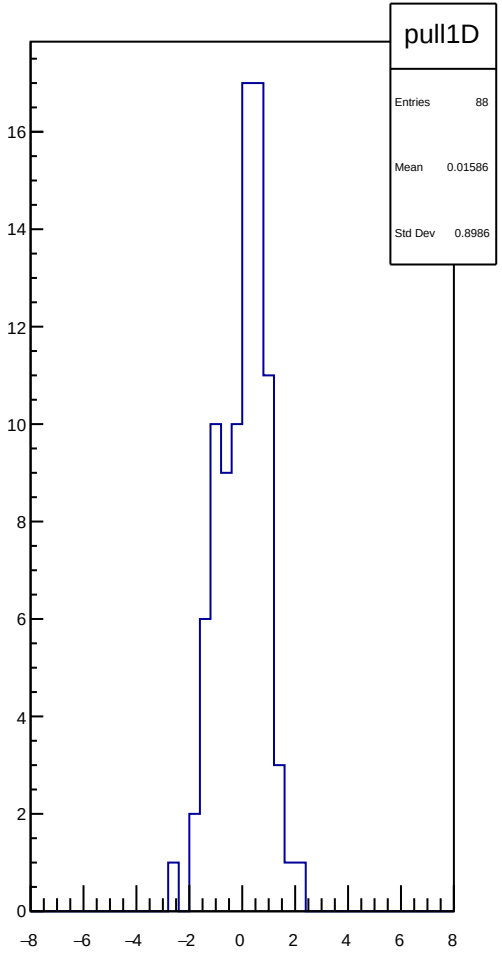

asym_sam_48_dd_rms vs run
χ² / ndf 7804 / 87
p0 1125 ± 0.8654
1500
1400
1300
1200
1100
1000

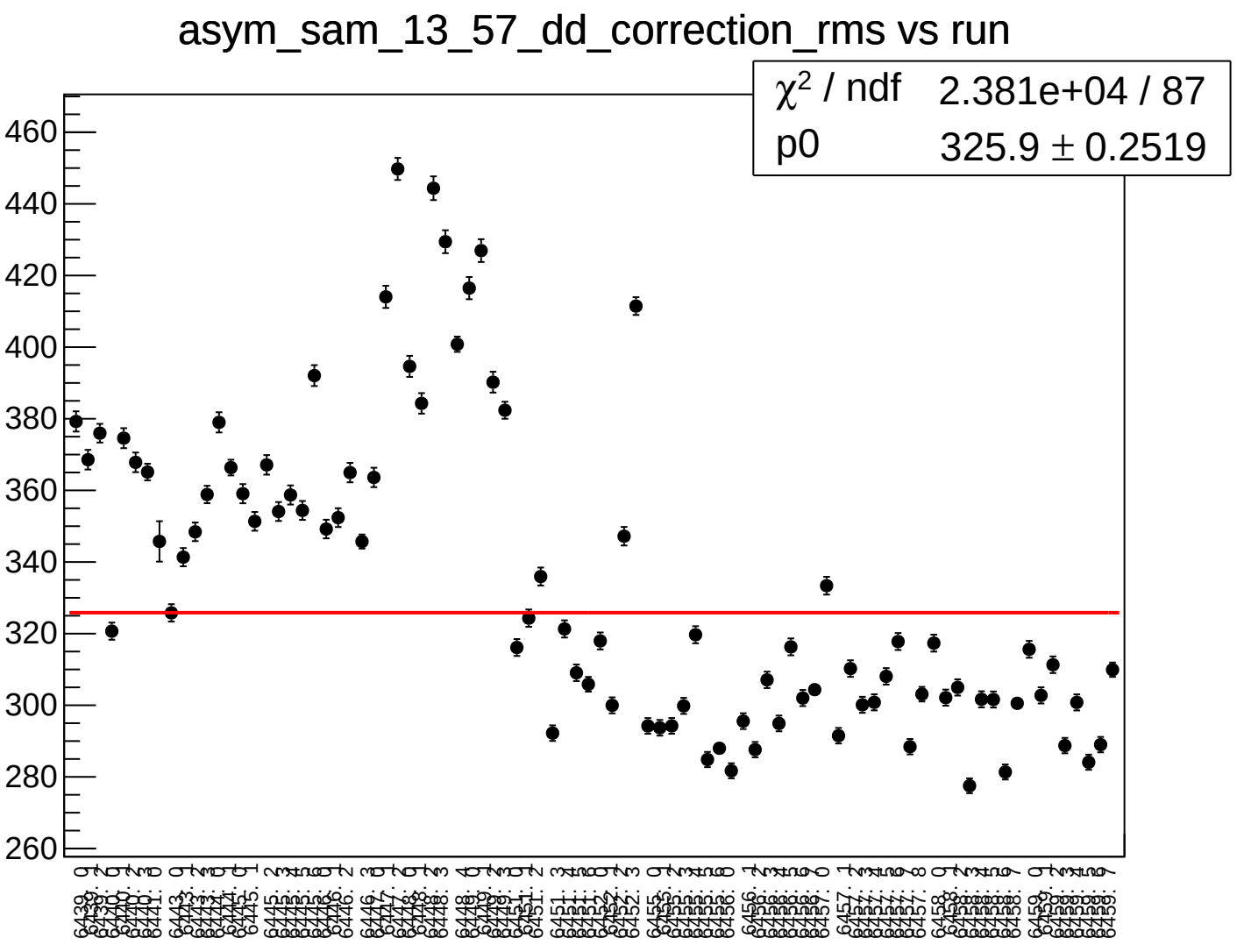

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 98.7 / 87
p0 −33.95 ± 54.98
pull
Entries 88
Mean −43.98
Std Dev 91.31

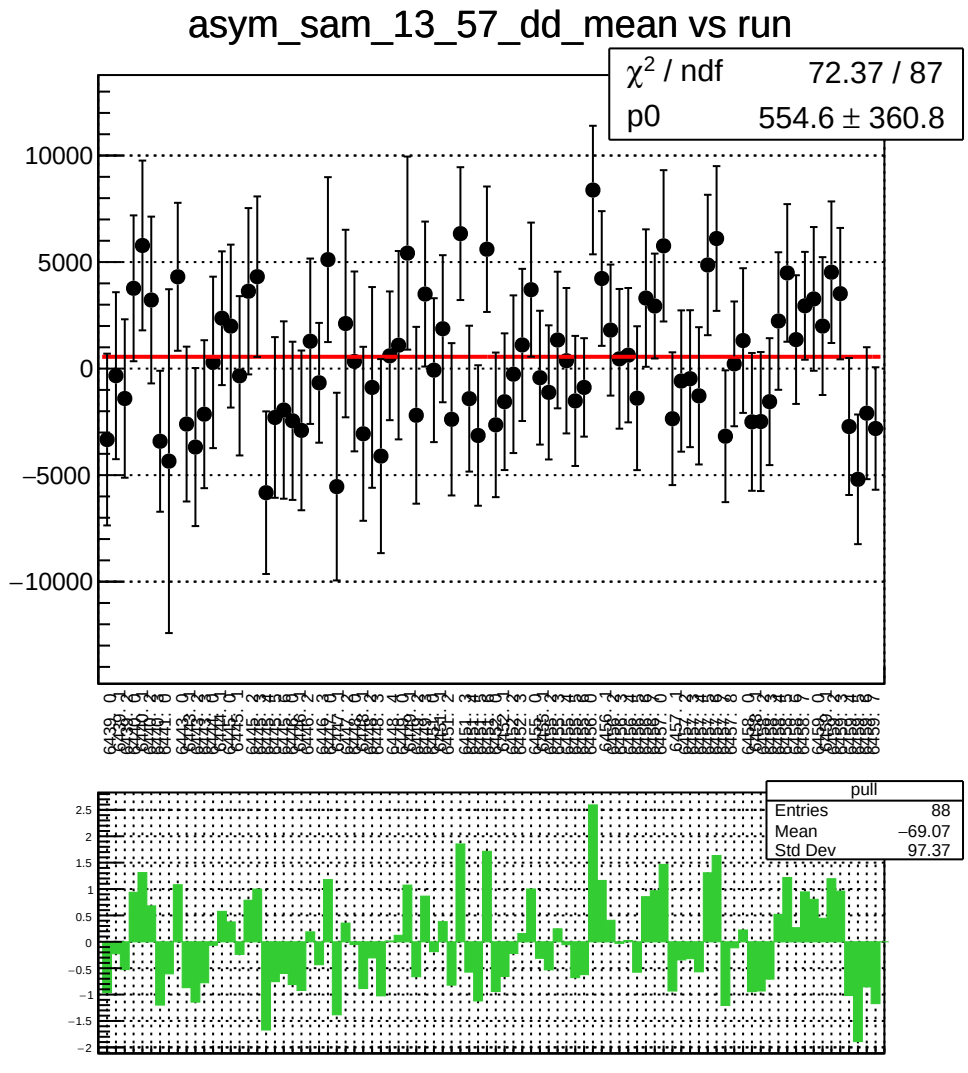

pull1D
Entries 88
Mean −0.02673
Std Dev 1.059

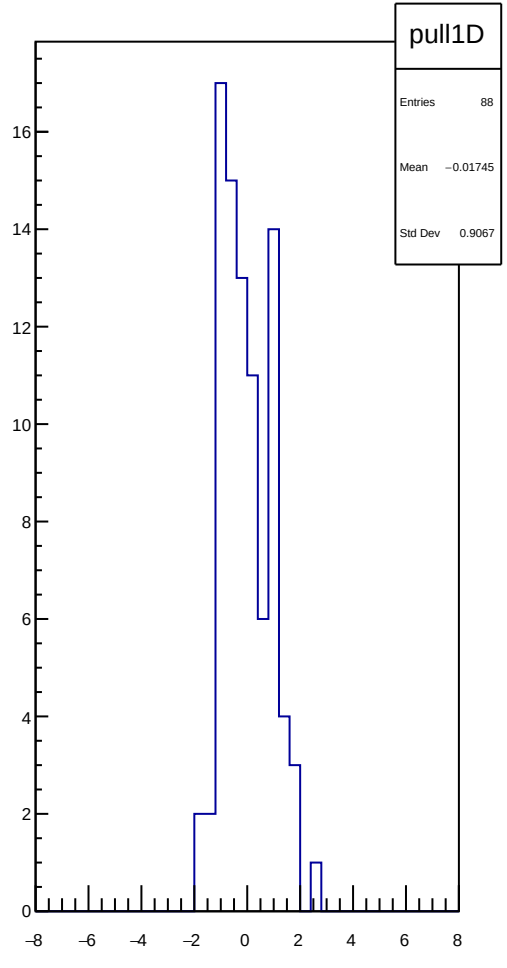

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.013e+04 / 87
p0 50.49 ± 0.03887
80
75
70
65
60
55
50
45

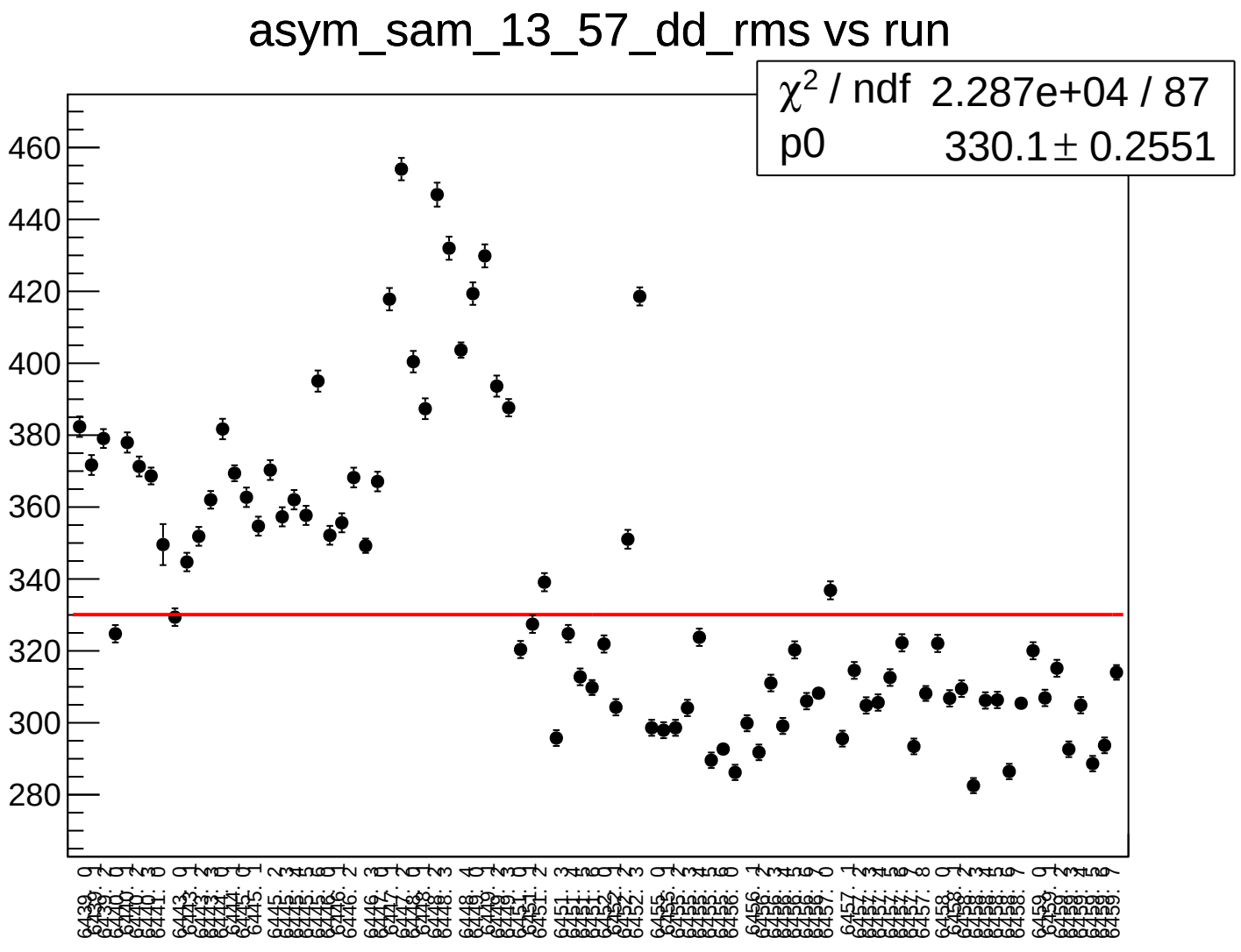

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 71.08 / 87
p0 −604.5 ± 356.3
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −55.32
Std Dev 76.4
2
1
0
−1
−2

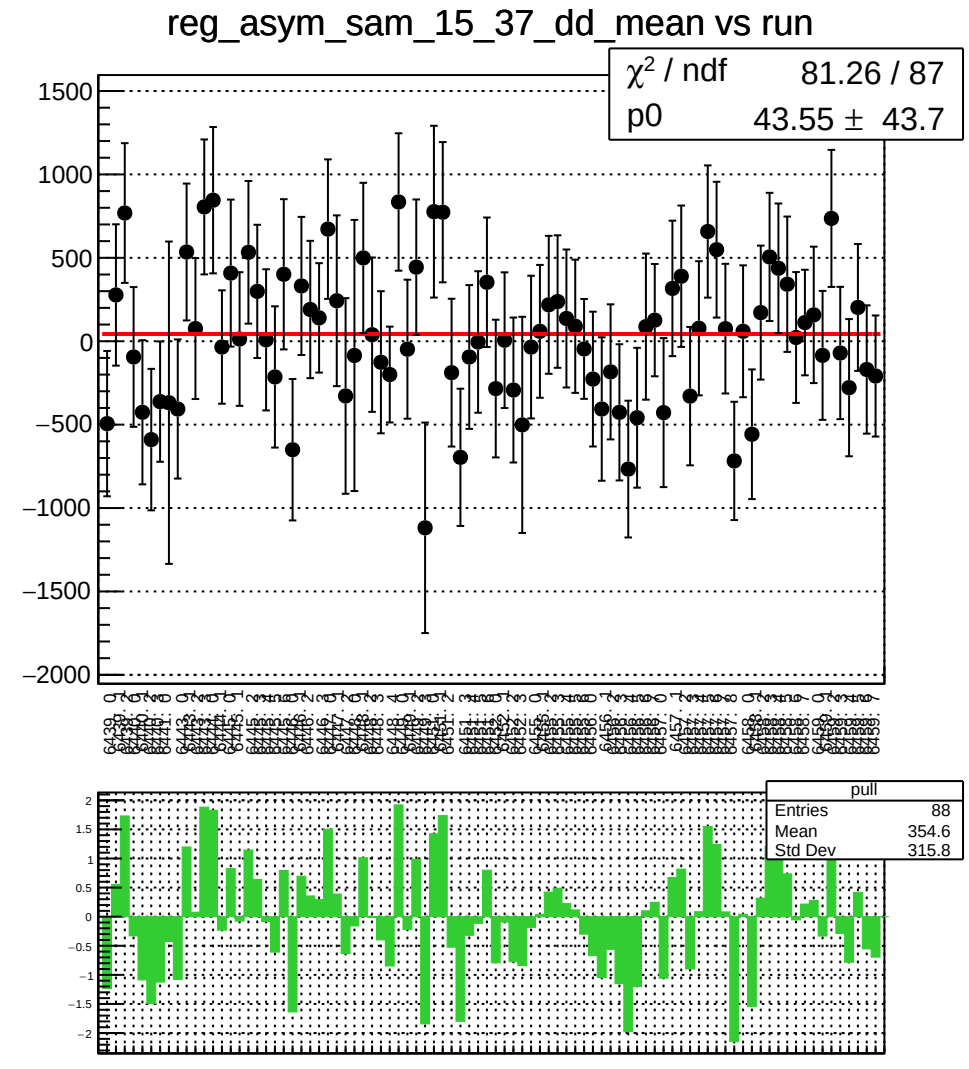

pull1D
Entries 88
Mean 0.01586
Std Dev 0.8986
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

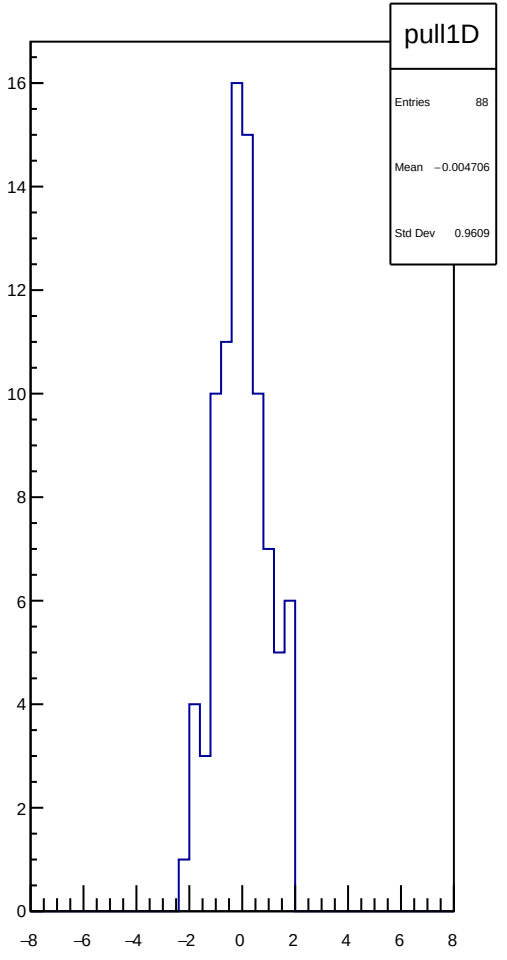

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 2.381e+04 / 87
p0 325.9 ± 0.2519
460
440
420
400
380
360
340
320
300
280
260

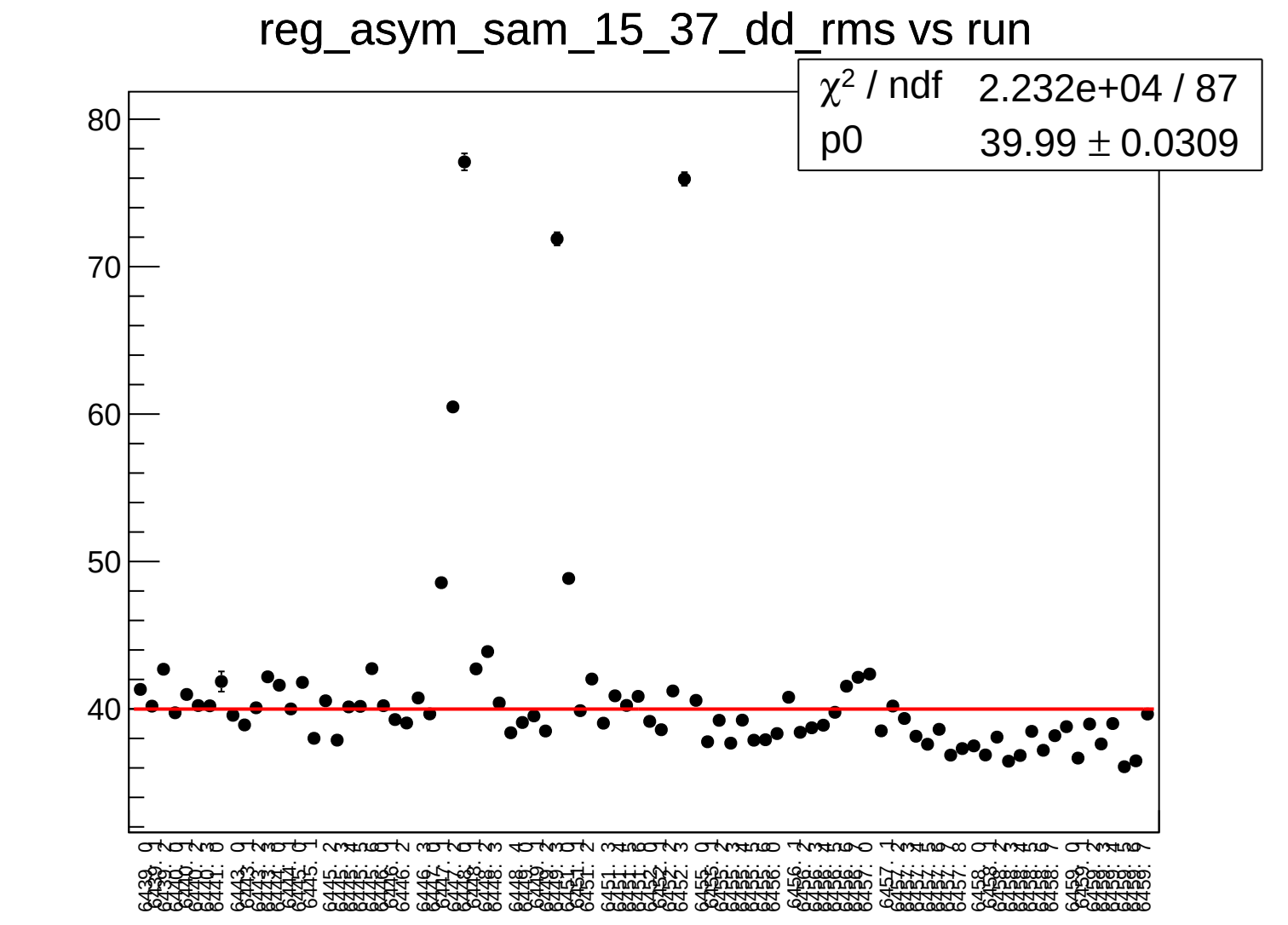

asym_sam_13_57_dd_mean vs run
χ² / ndf 72.37 / 87
p0 554.6 ± 360.8
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −69.07
Std Dev 97.37
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

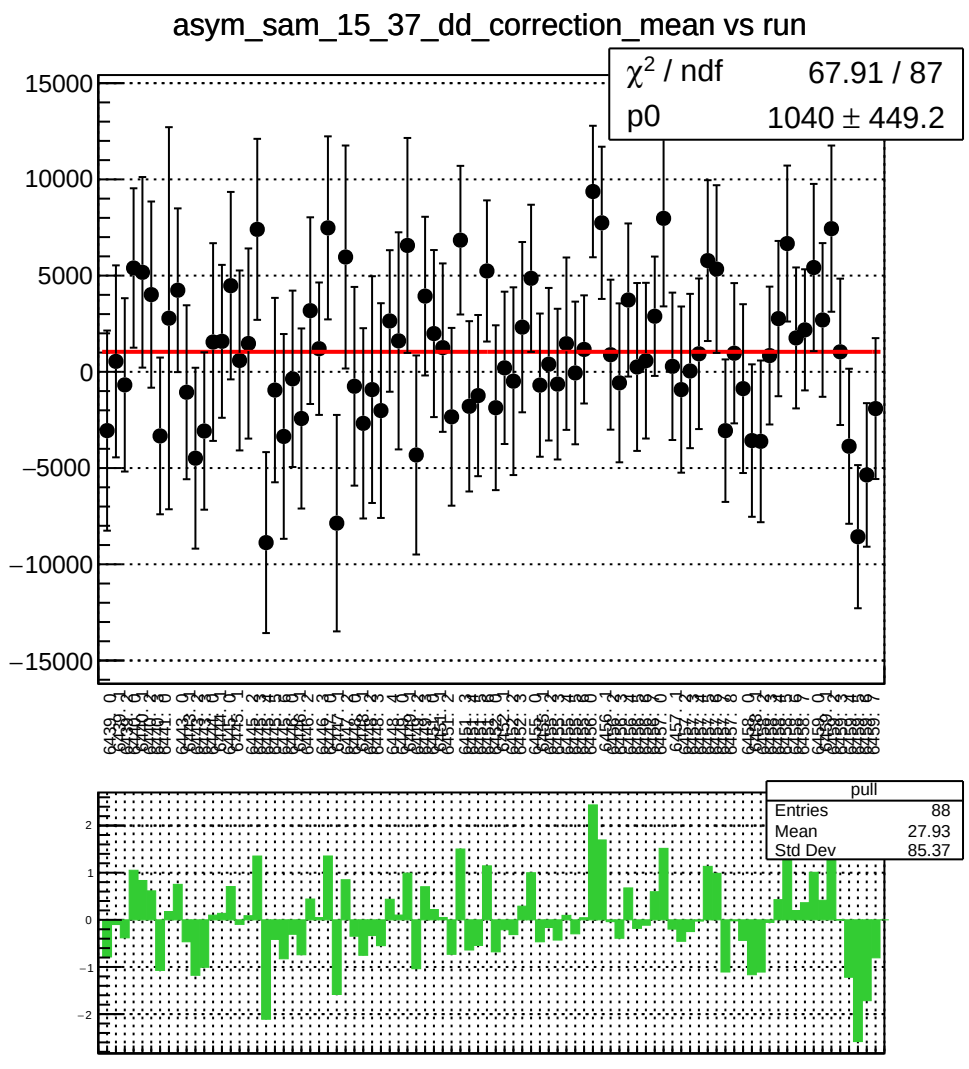

pull1D
Entries 88
Mean −0.01745
Std Dev 0.9067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

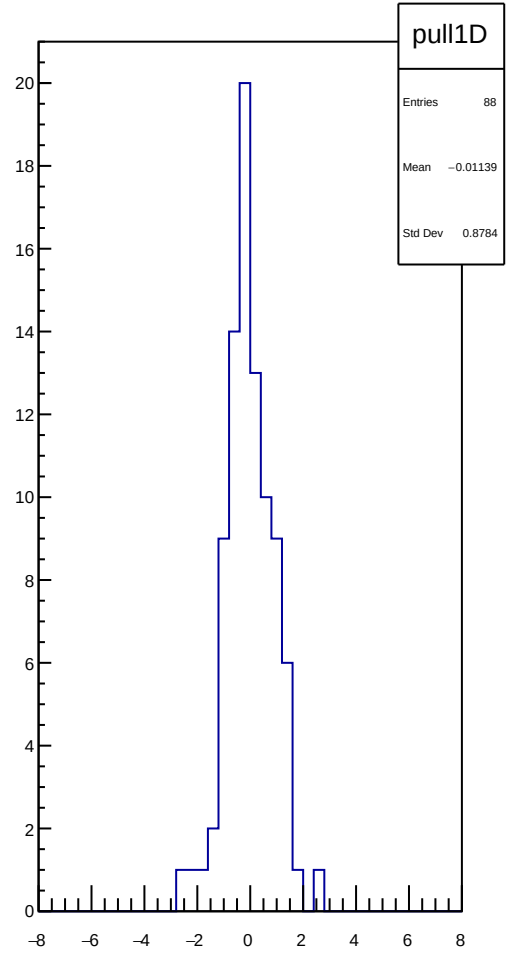

asym_sam_13_57_dd_rms vs run
χ² / ndf 2.287e+04 / 87
p0 330.1 ± 0.2551
460
440
420
400
380
360
340
320
300
280

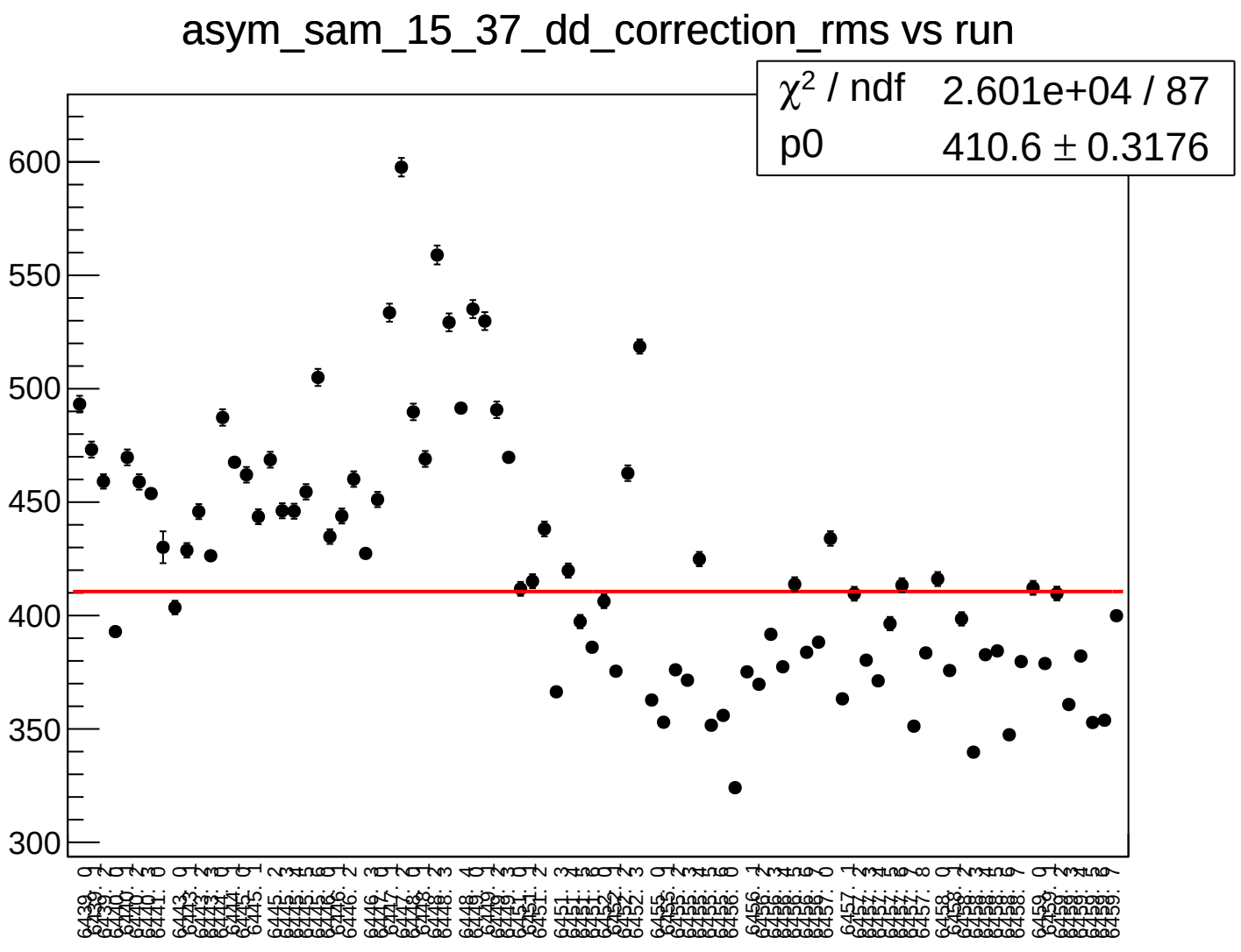

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 81.26 / 87
p0 43.55 ± 43.7
pull
Entries 88
Mean 354.6
Std Dev 315.8

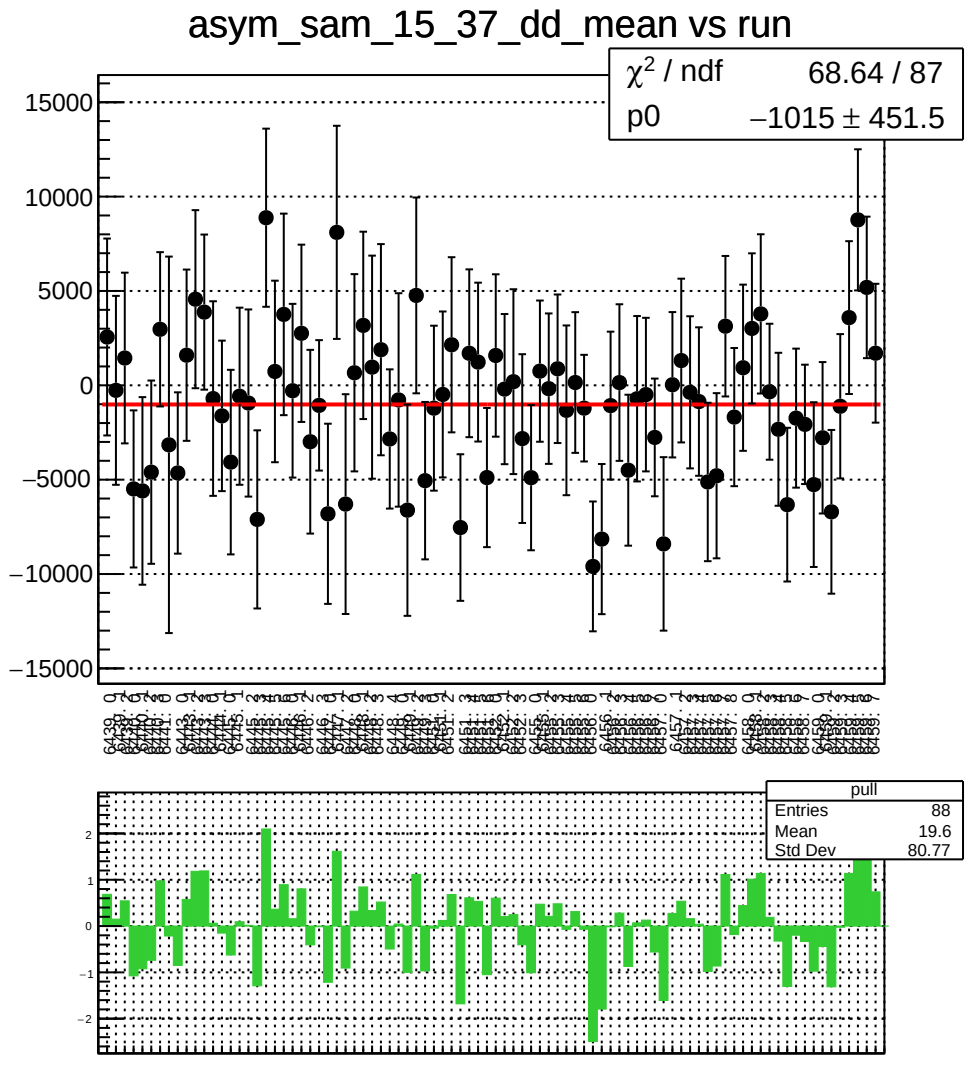

pull1D
Entries 88
Mean −0.004706
Std Dev 0.9609

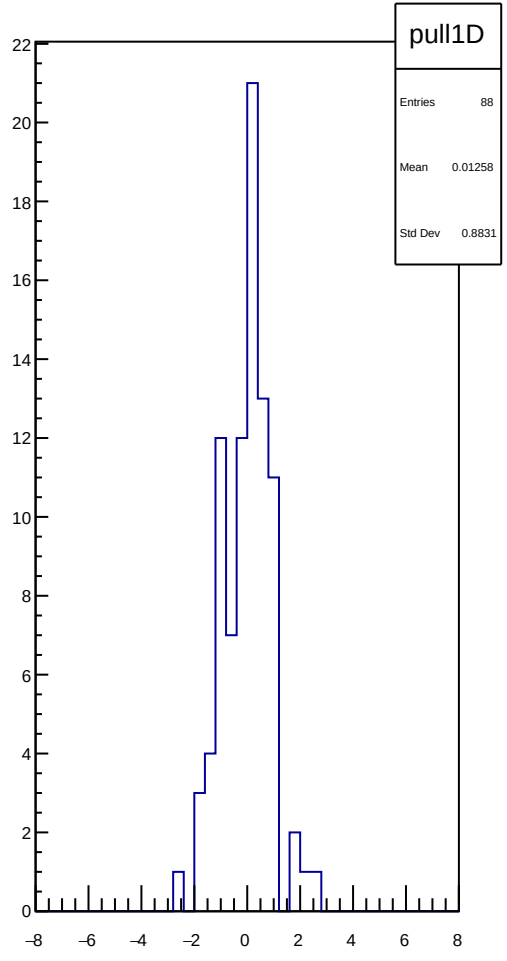

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.232e+04 / 87
p0 39.99 ± 0.0309
80
70
60
50
40

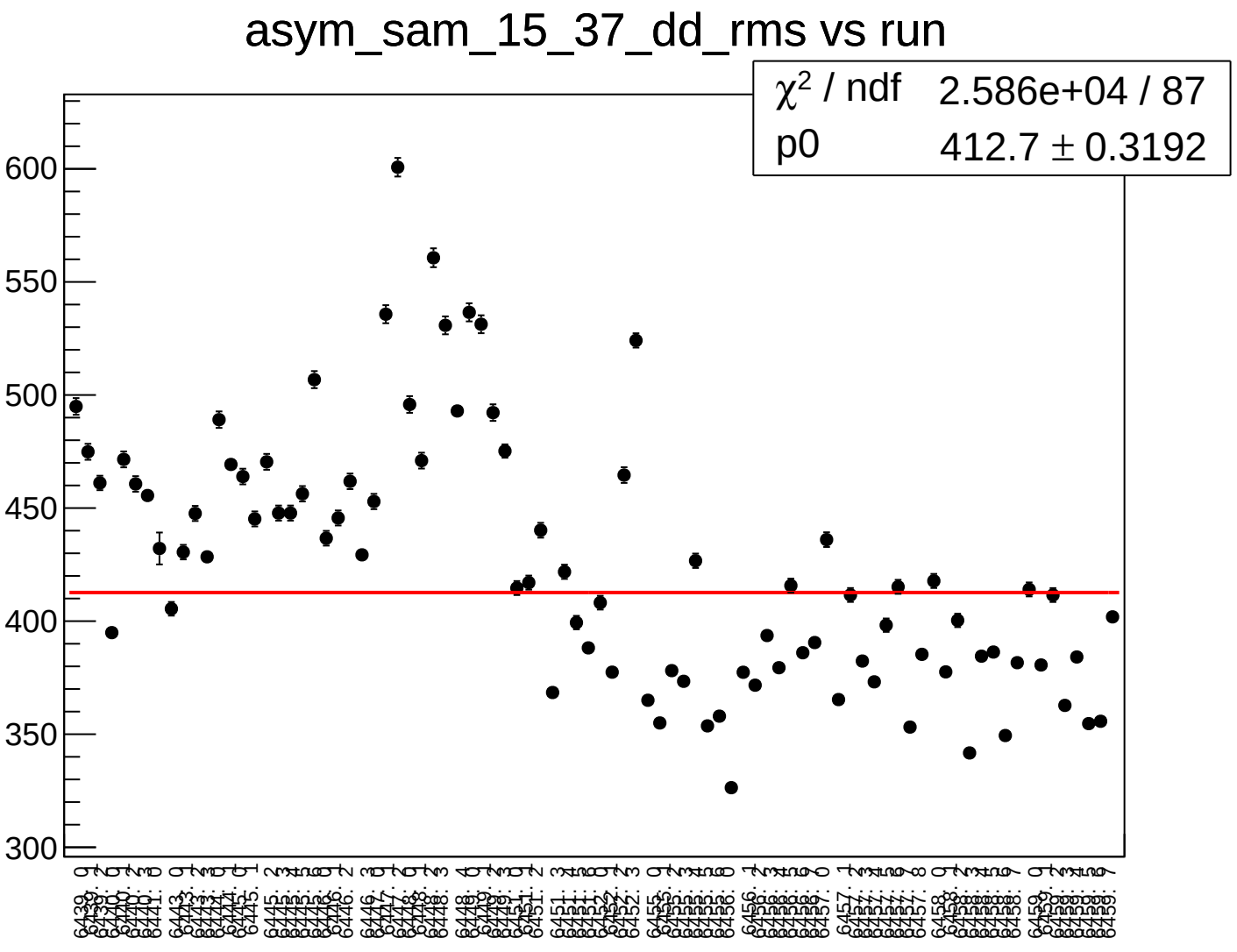

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 67.91 / 87
p0 1040 ± 449.2
pull
Entries 88
Mean 27.93
Std Dev 85.37

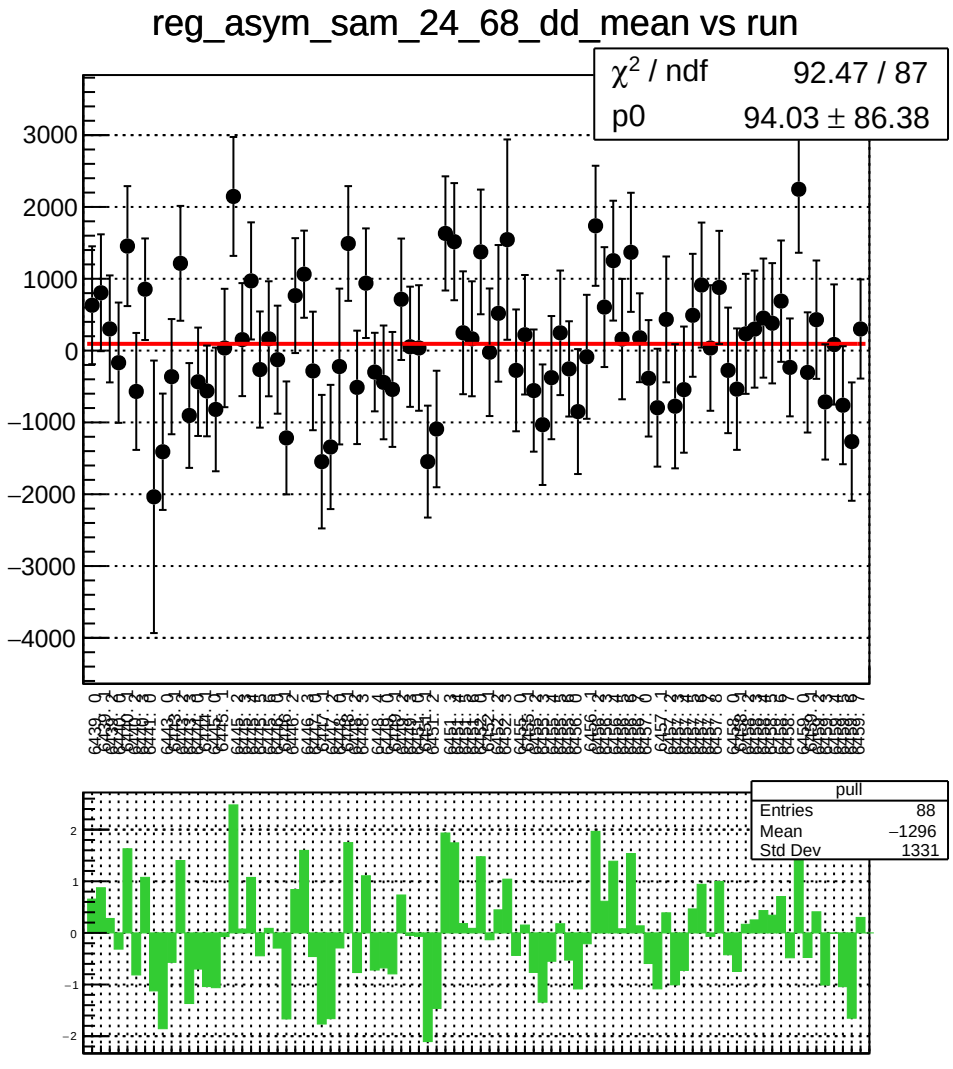

pull1D
Entries 88
Mean −0.01139
Std Dev 0.8784

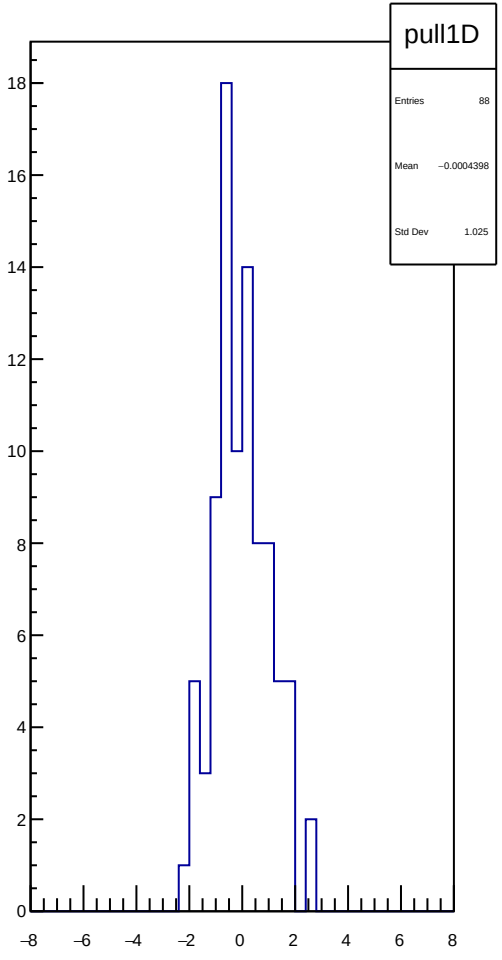

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 2.601e+04 / 87
p0 410.6 ± 0.3176
600
550
500
450
400
350
300

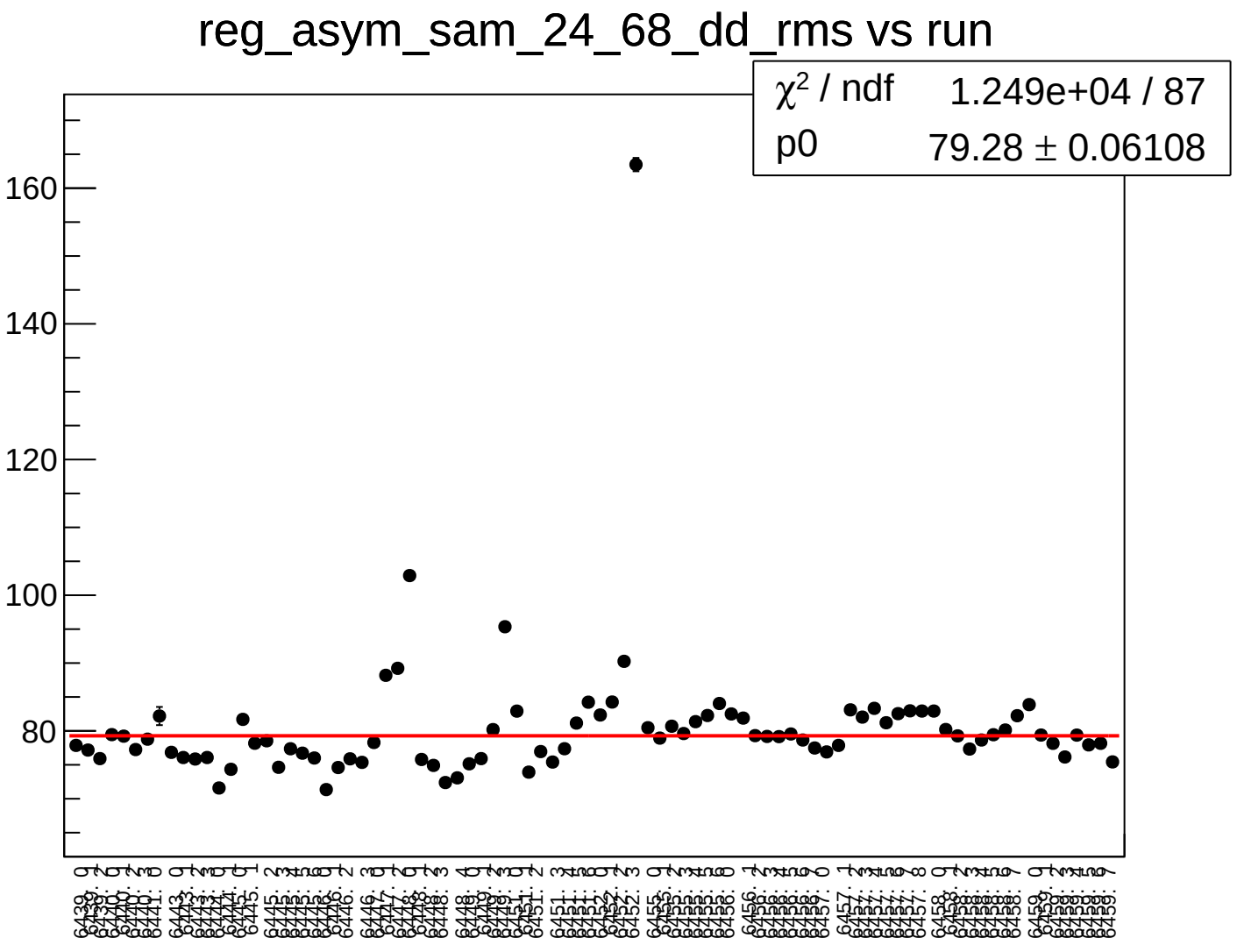

asym_sam_15_37_dd_mean vs run
χ² / ndf 68.64 / 87
p0 −1015 ± 451.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 19.6
Std Dev 80.77
2
1
0
−1
−2

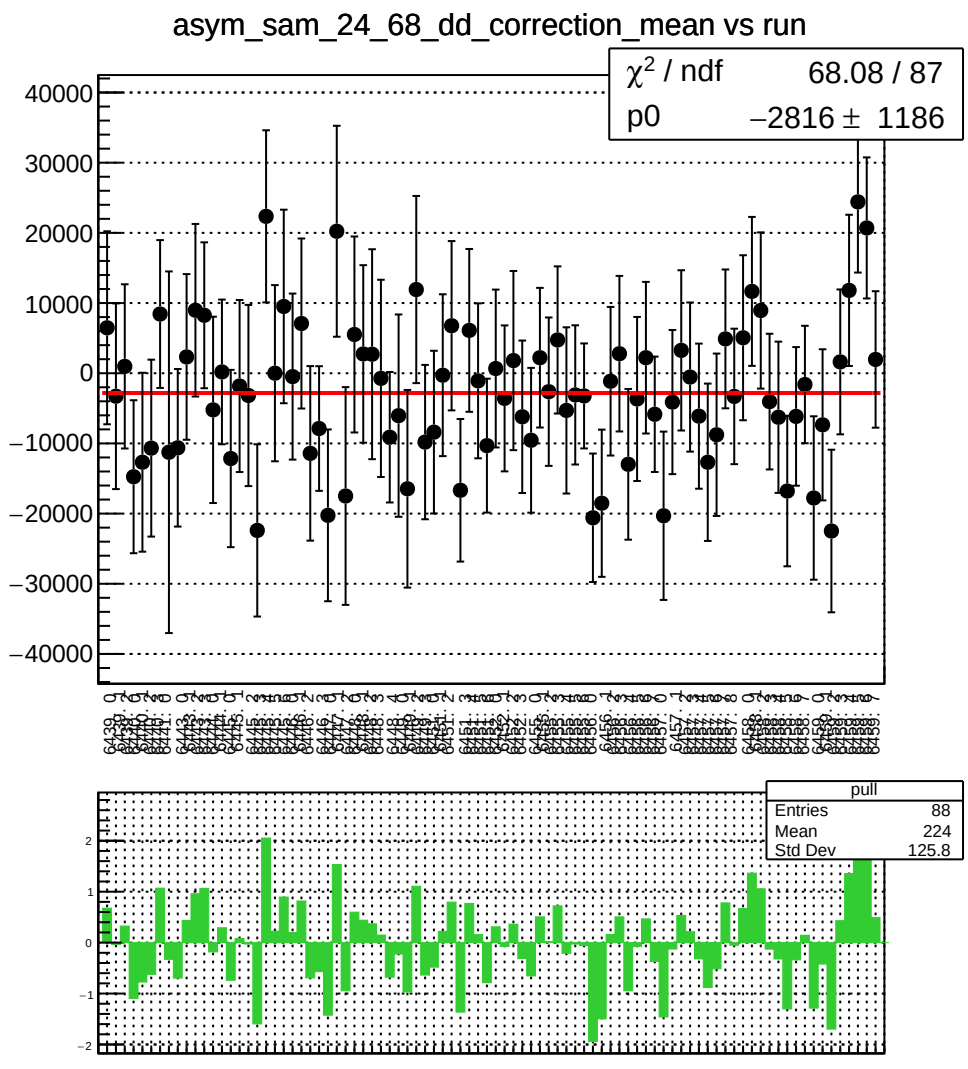

pull1D
Entries 88
Mean 0.01258
Std Dev 0.8831
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

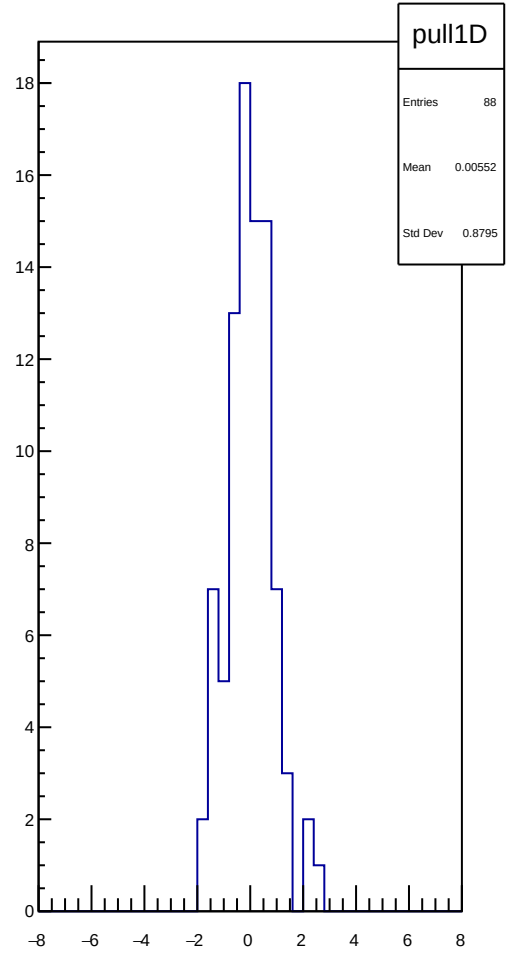

asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.586e+04 / 87
p0 412.7 ± 0.3192
600
550
500
450
400
350
300

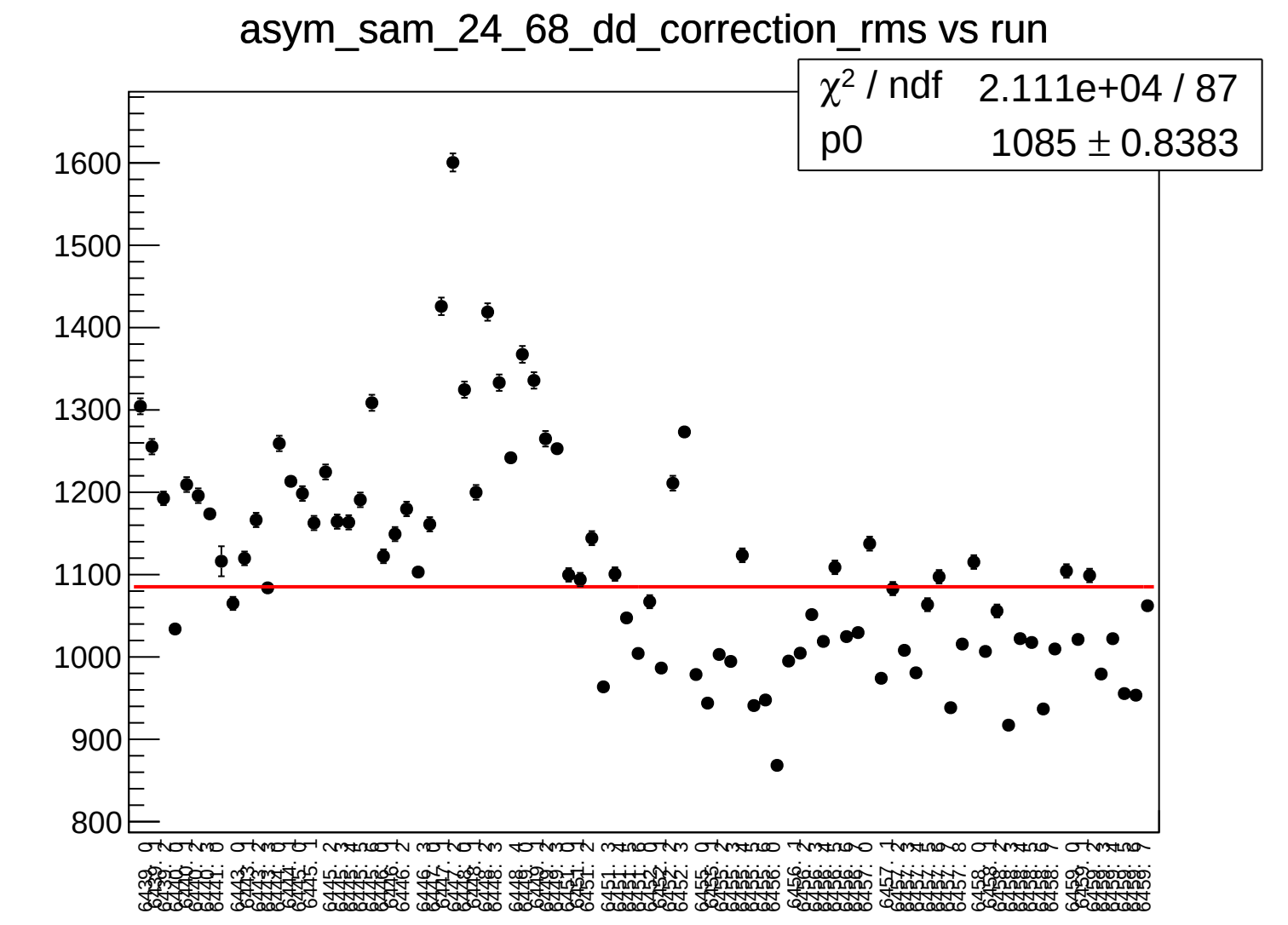

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 92.47 / 87
p0 94.03 ± 86.38
pull
Entries 88
Mean −1296
Std Dev 1331

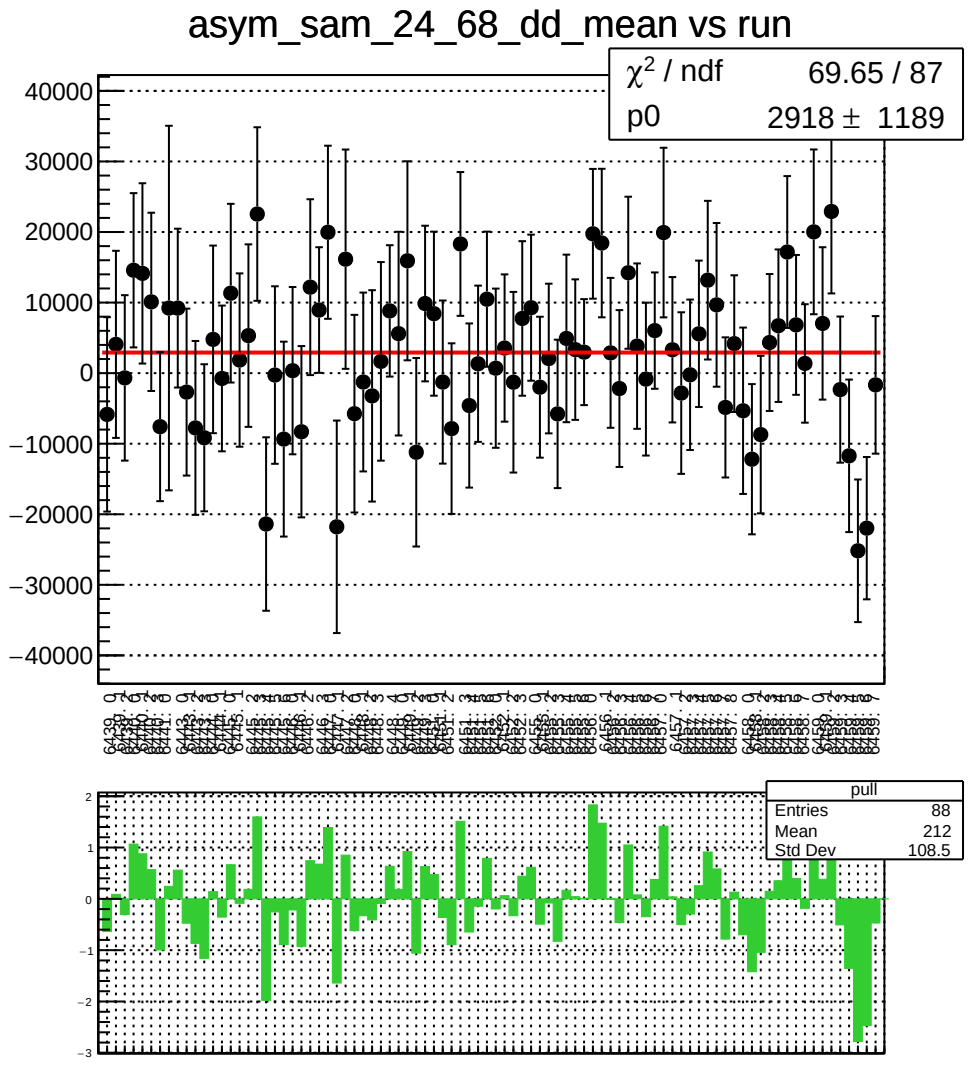

pull1D
Entries 88
Mean −0.0004398
Std Dev 1.025

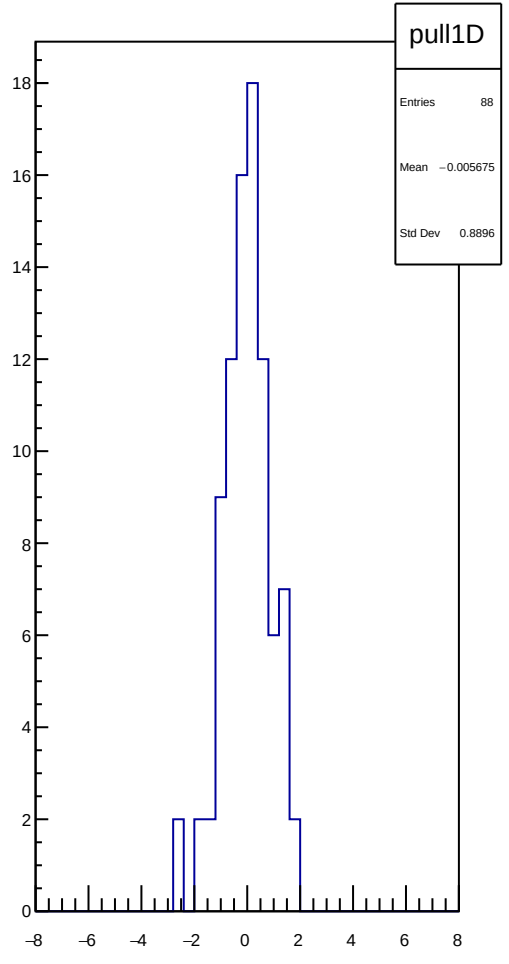

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.249e+04 / 87
p0 79.28 ± 0.06108
160
140
120
100
80

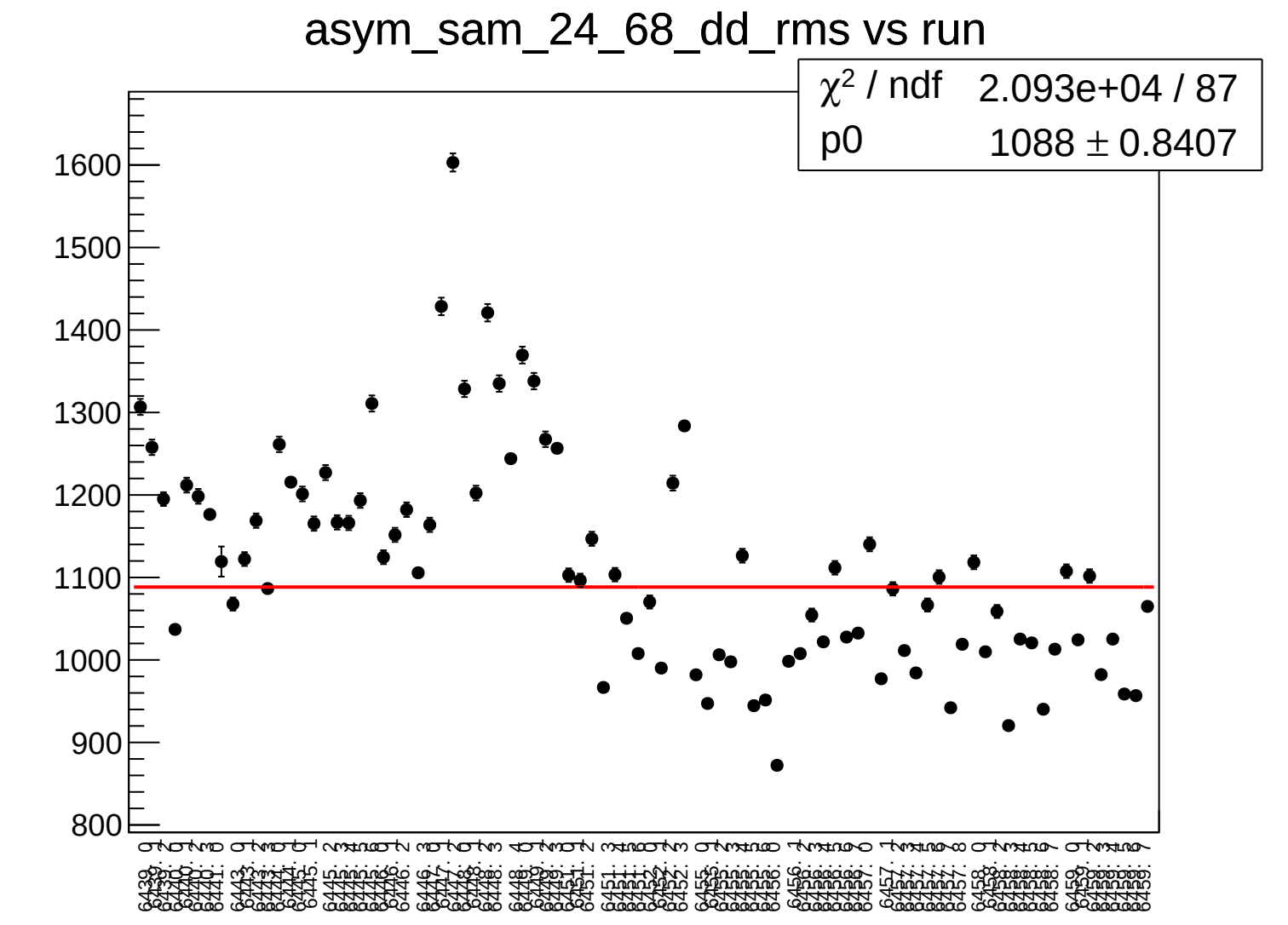

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 68.08 / 87
p0 −2816 ± 1186
pull
Entries 88
Mean 224
Std Dev 125.8

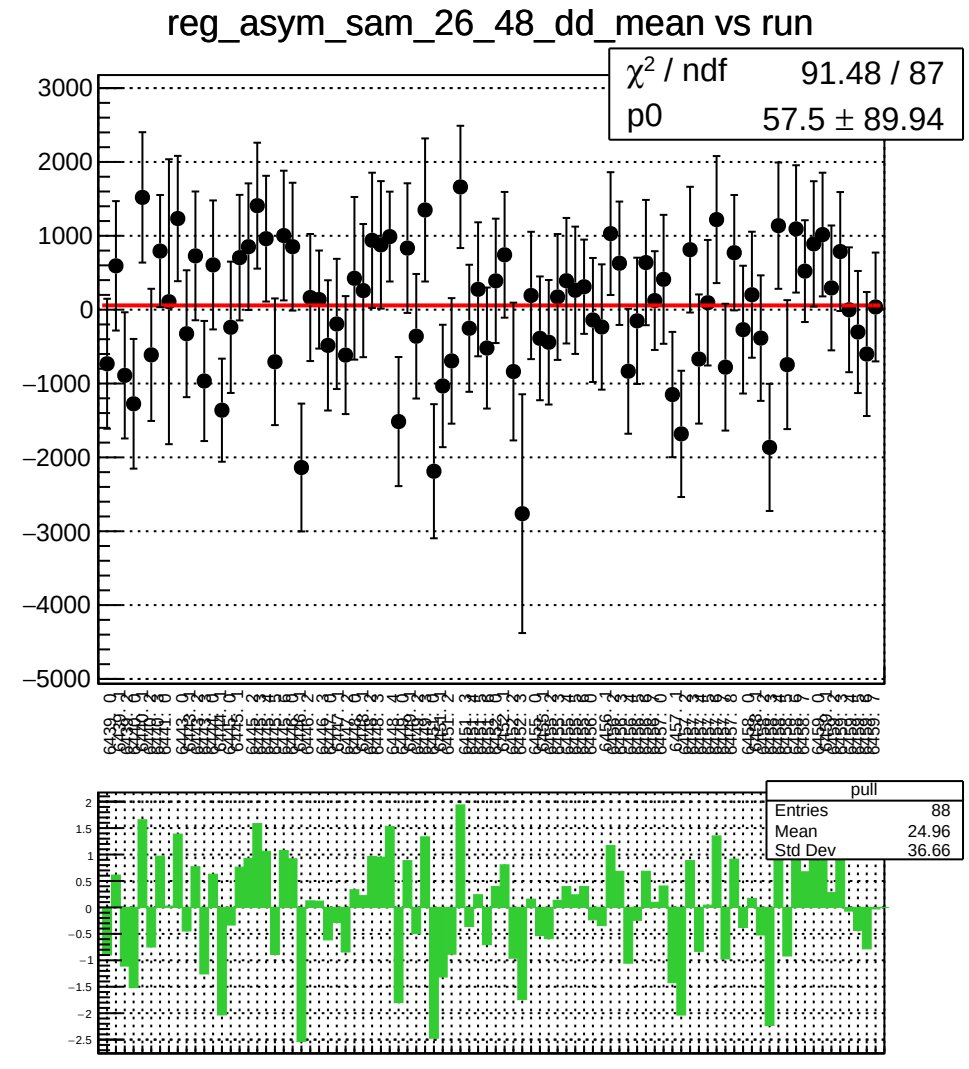

pull1D
Entries 88
Mean 0.00552
Std Dev 0.8795

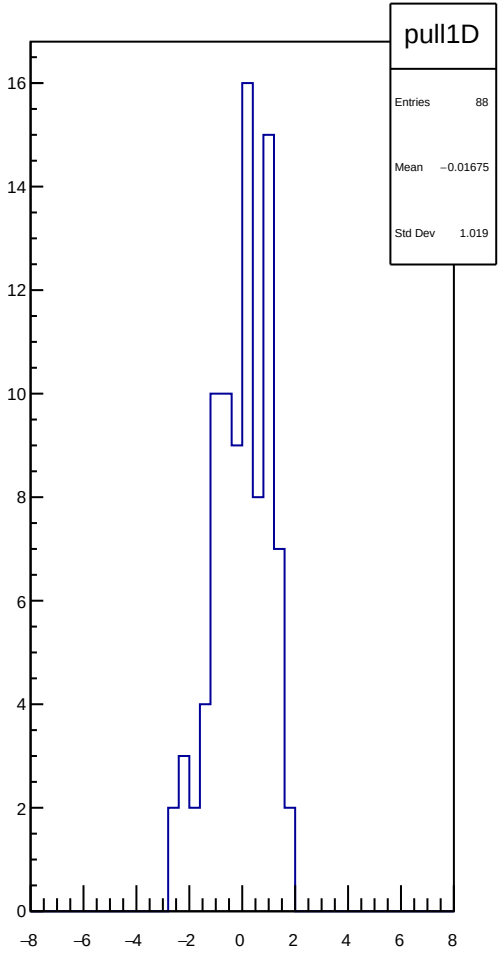

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 2.111e+04 / 87
p0 1085 ± 0.8383
1600
1500
1400
1300
1200
1100
1000
900
800

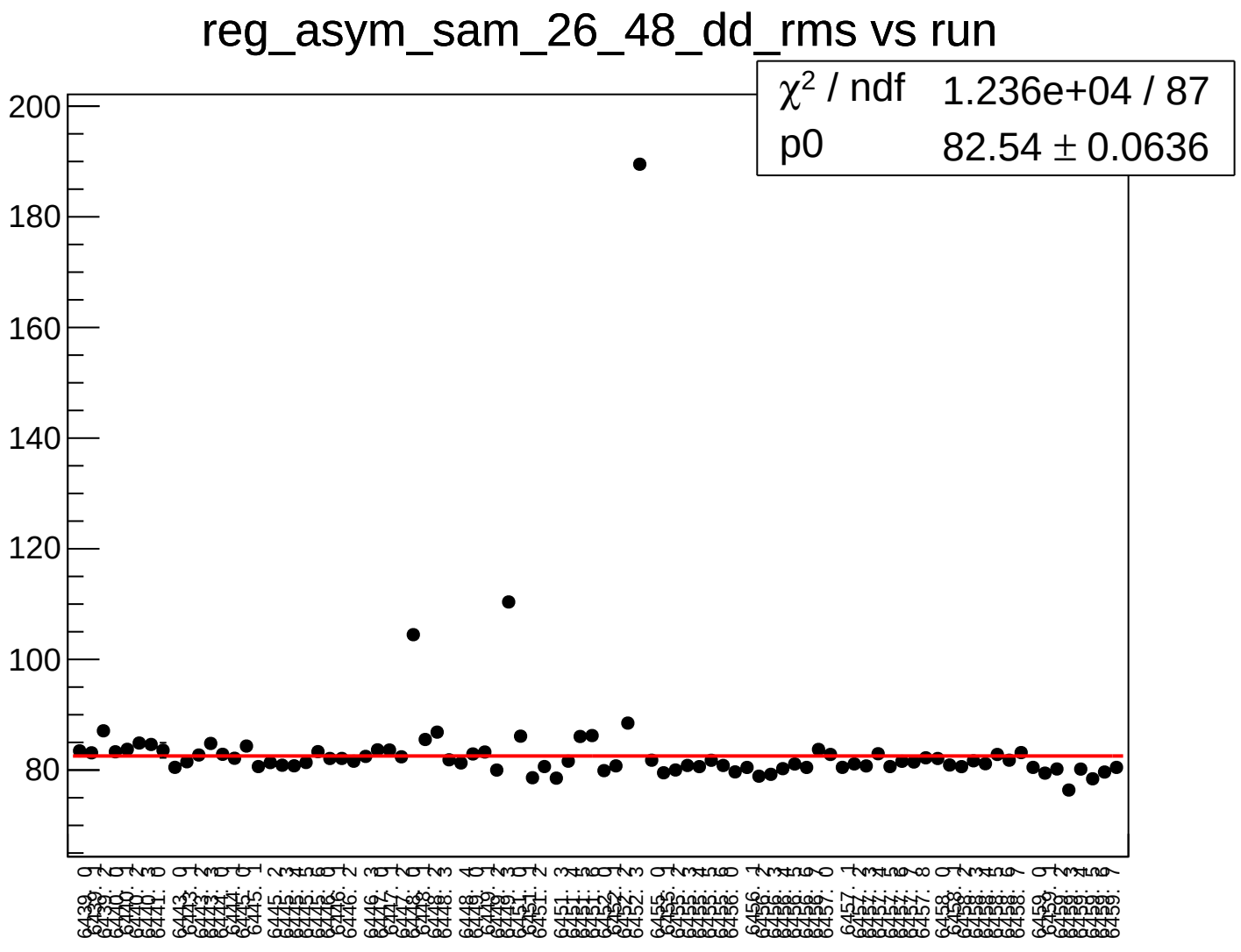

asym_sam_24_68_dd_mean vs run
χ² / ndf 69.65 / 87
p0 2918 ± 1189
pull
Entries 88
Mean 212
Std Dev 108.5

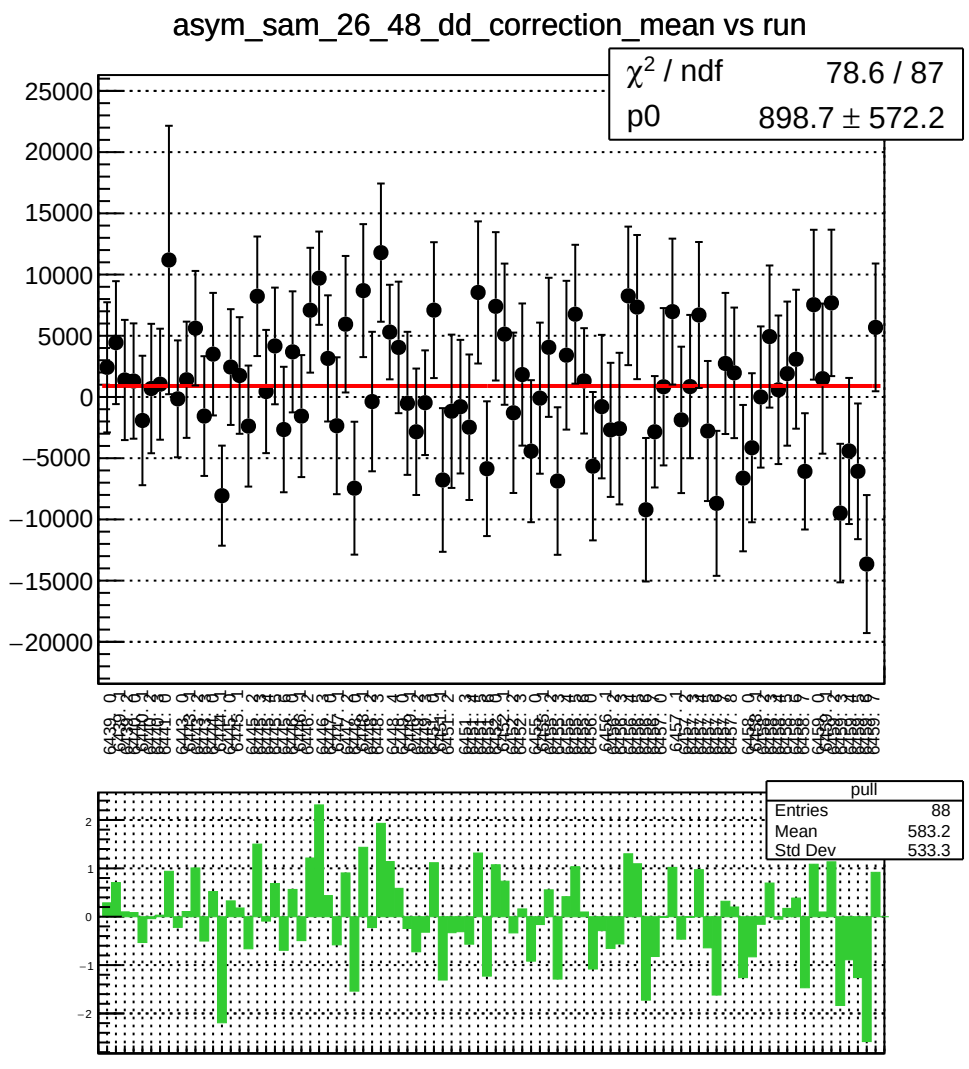

pull1D
Entries 88
Mean −0.005675
Std Dev 0.8896

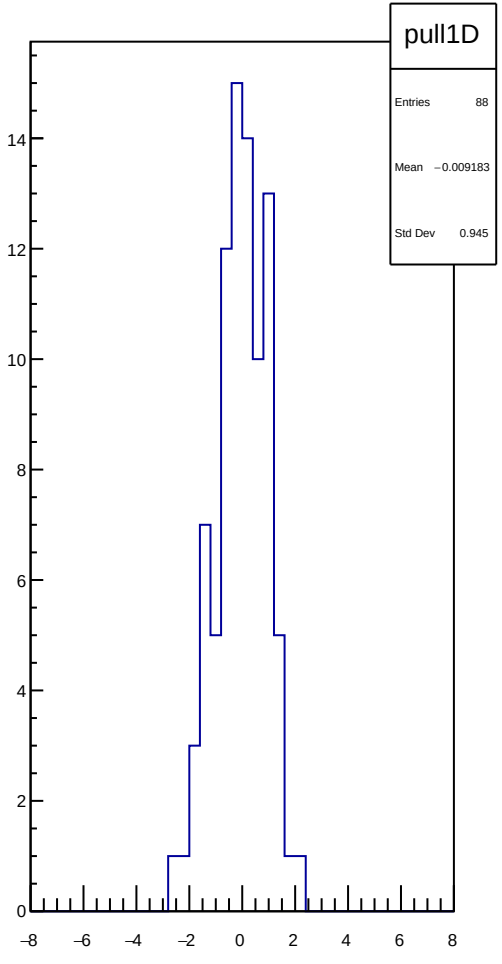

asym_sam_24_68_dd_rms vs run
χ² / ndf 2.093e+04 / 87
p0 1088 ± 0.8407
1600
1500
1400
1300
1200
1100
1000
900
800

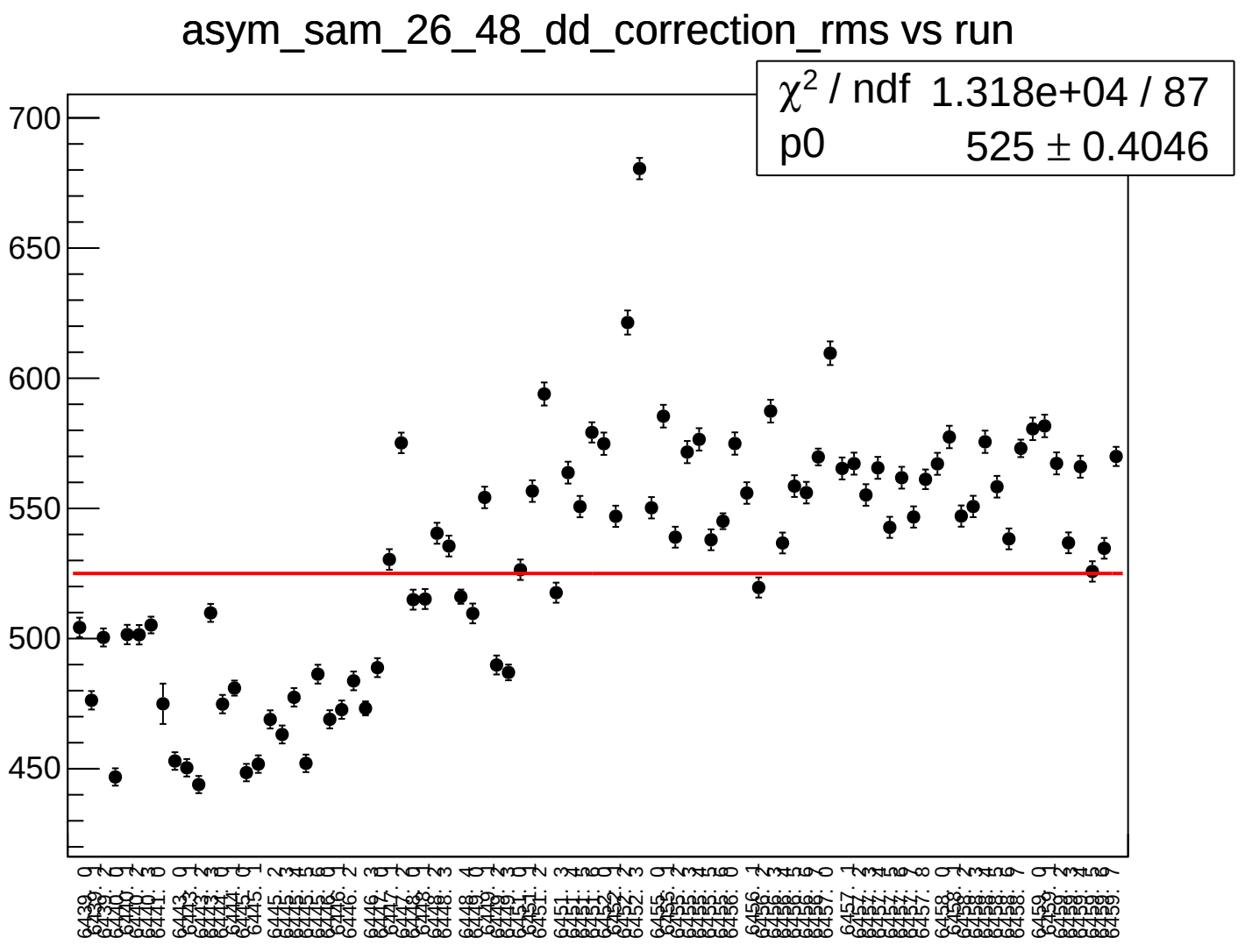

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 91.48 / 87
p0 57.5 ± 89.94
pull
Entries 88
Mean 24.96
Std Dev 36.66

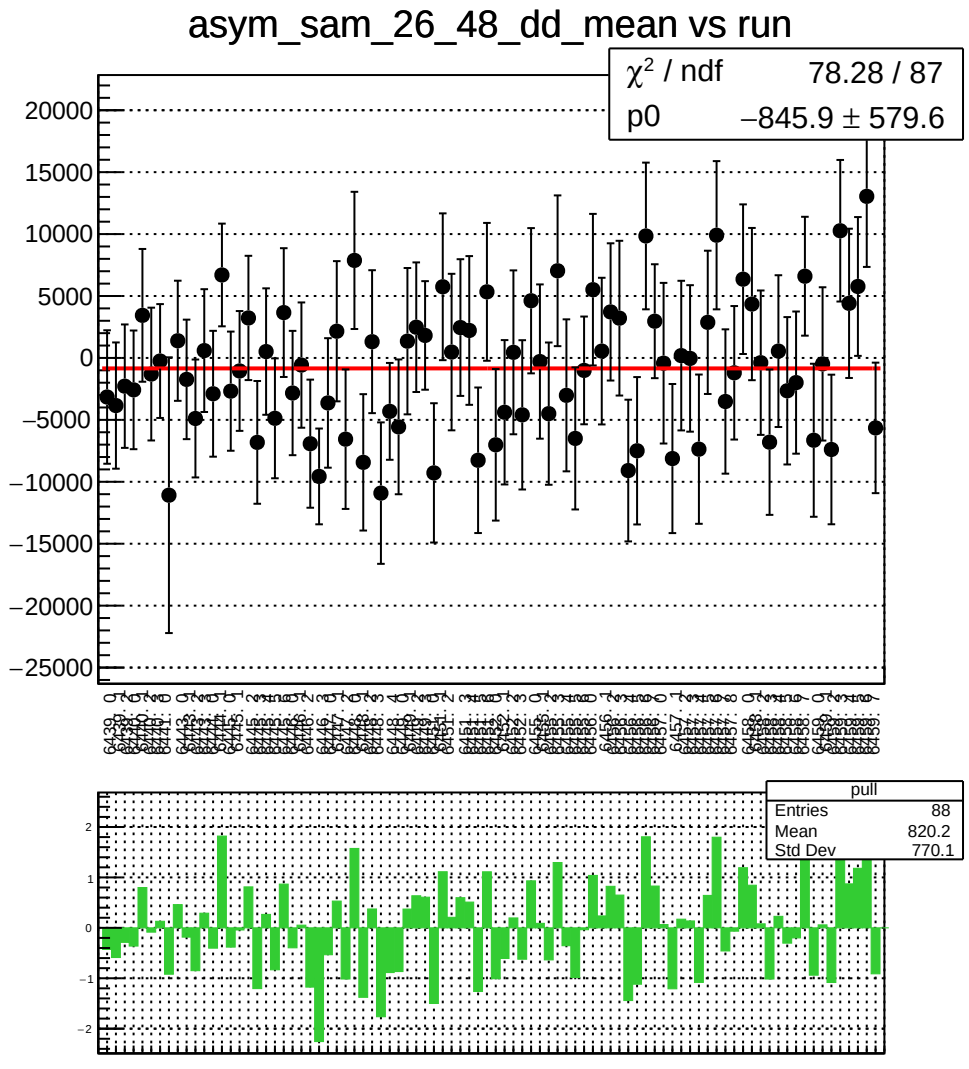

pull1D
Entries 88
Mean −0.01675
Std Dev 1.019

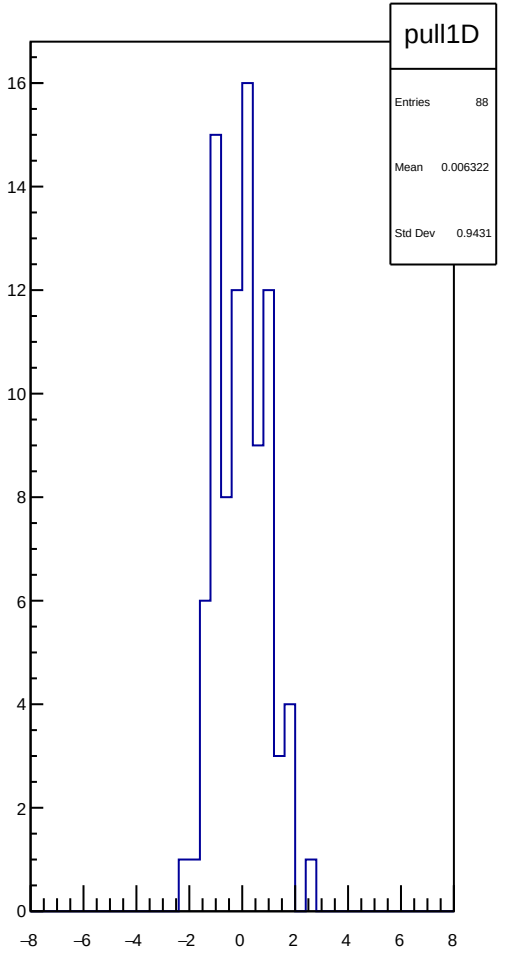

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.236e+04 / 87
p0 82.54 ± 0.0636
200
180
160
140
120
100
80

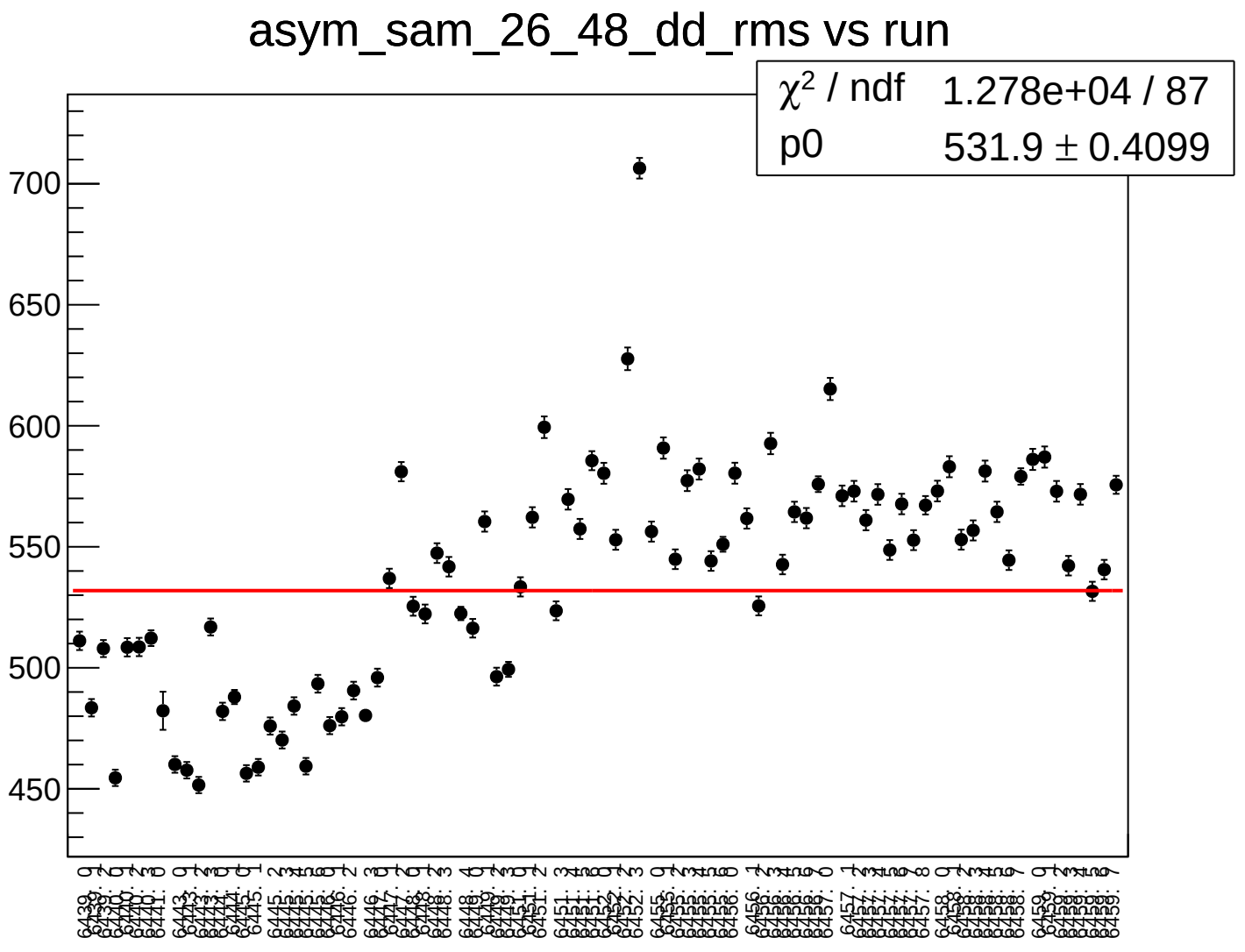

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 78.6 / 87
p0 898.7 ± 572.2
pull
Entries 88
Mean 583.2
Std Dev 533.3

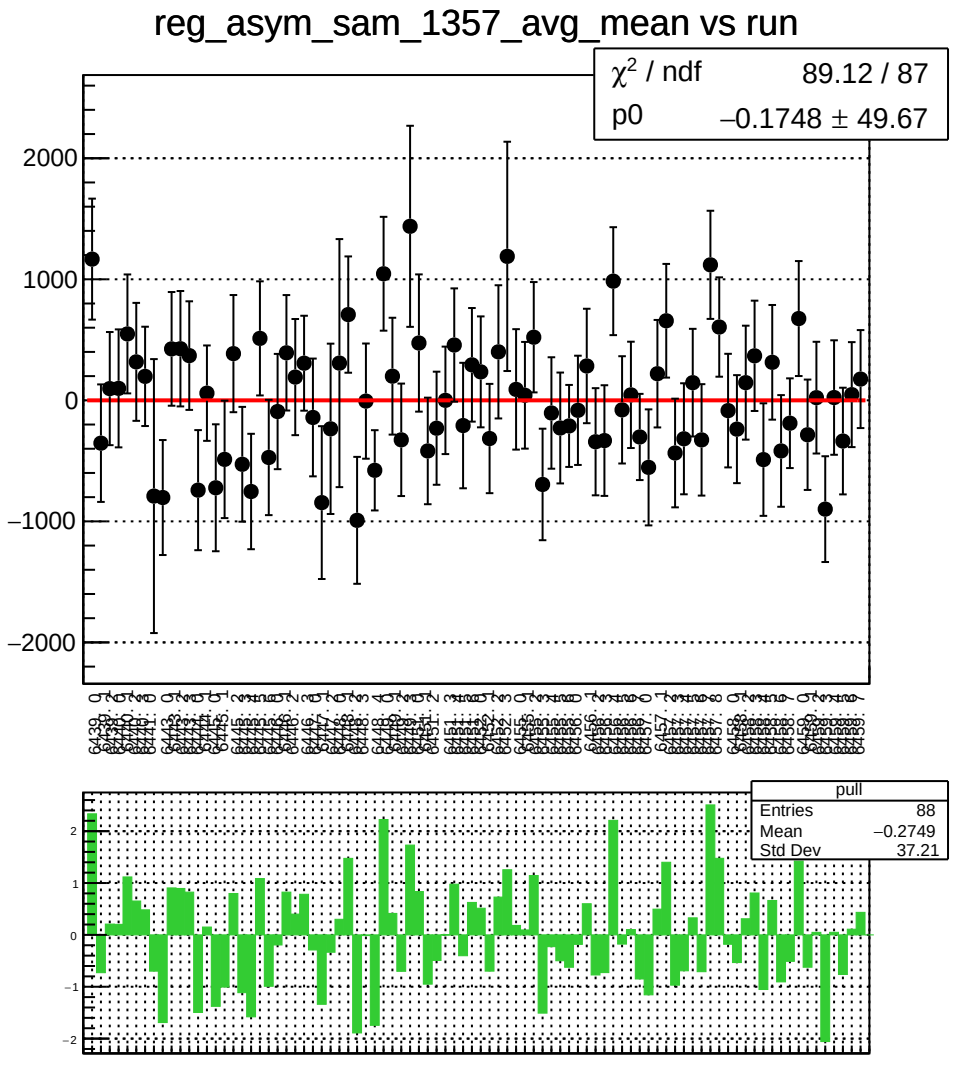

pull1D
Entries 88
Mean −0.009183
Std Dev 0.945

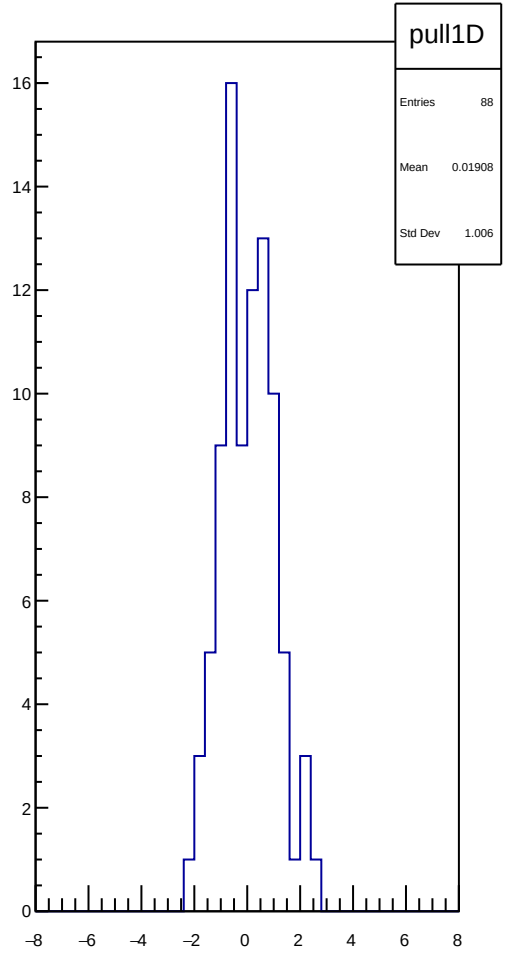

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 1.318e+04 / 87
p0 525 ± 0.4046
700
650
600
550
500
450

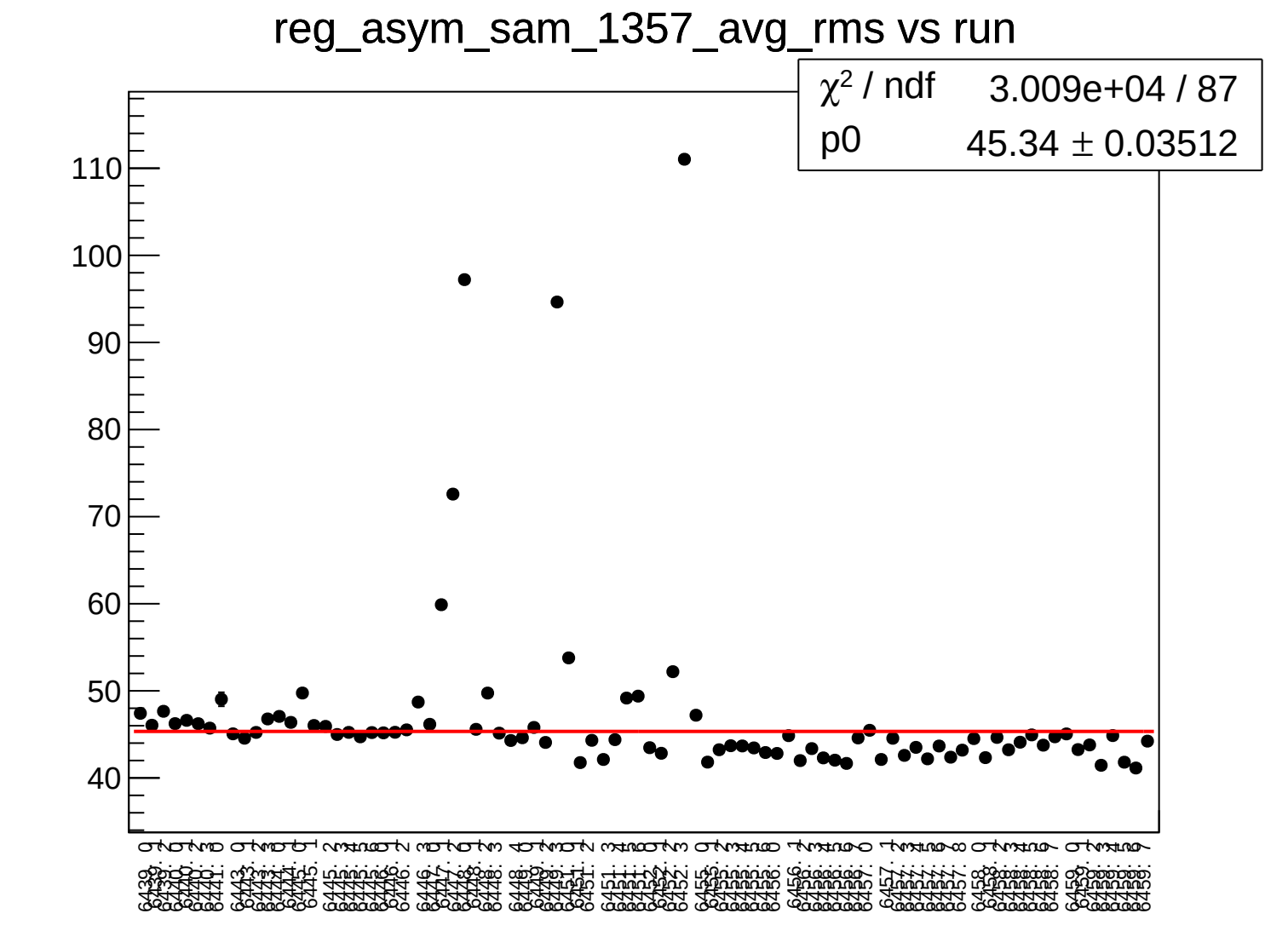

asym_sam_26_48_dd_mean vs run
χ² / ndf 78.28 / 87
p0 −845.9 ± 579.6
pull
Entries 88
Mean 820.2
Std Dev 770.1

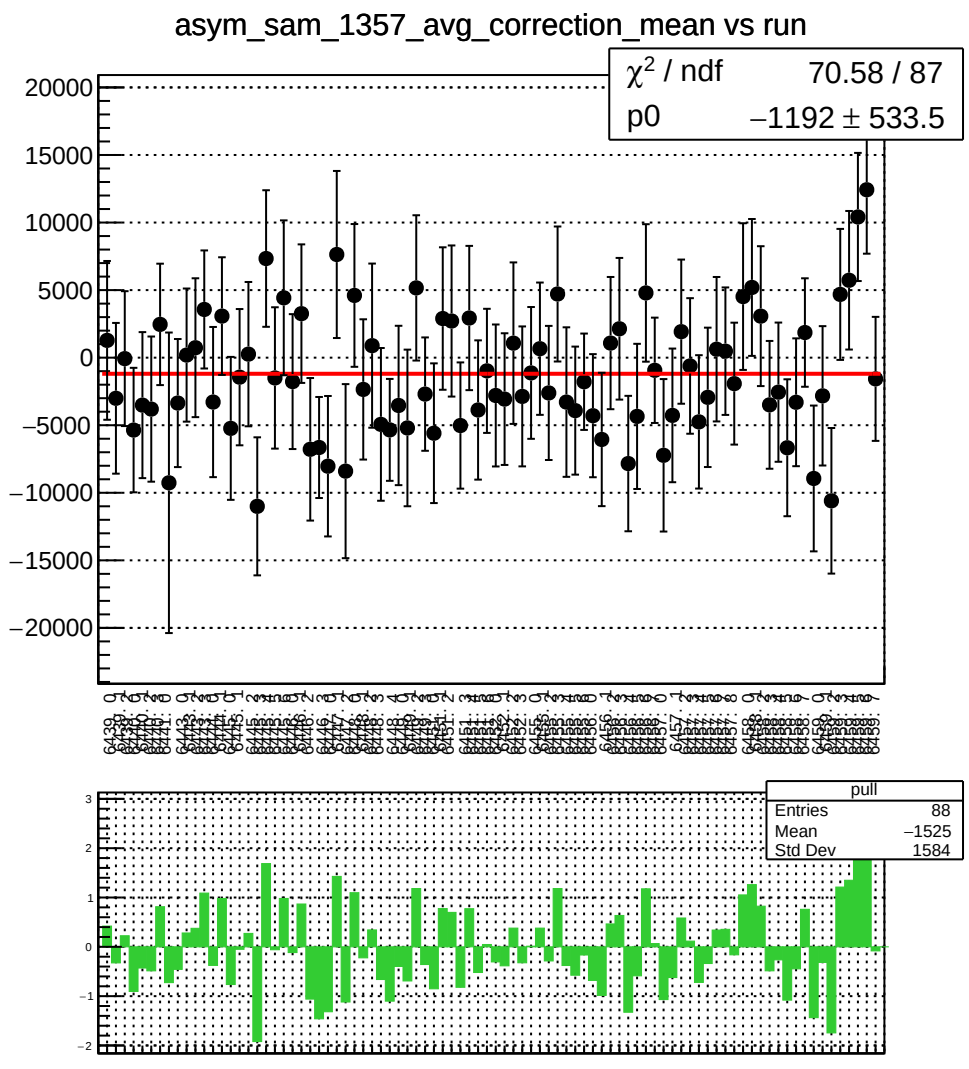

pull1D
Entries 88
Mean 0.006322
Std Dev 0.9431

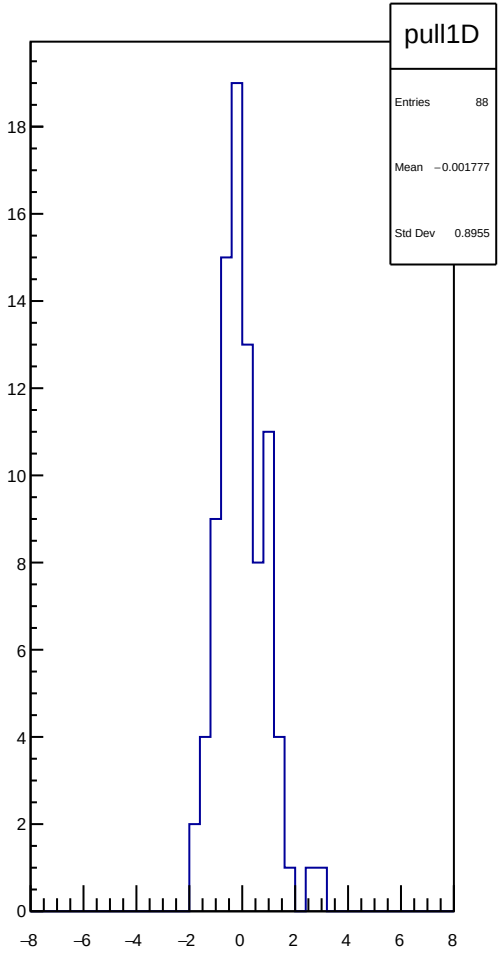

asym_sam_26_48_dd_rms vs run
χ² / ndf 1.278e+04 / 87
p0 531.9 ± 0.4099
700
650
600
550
500
450

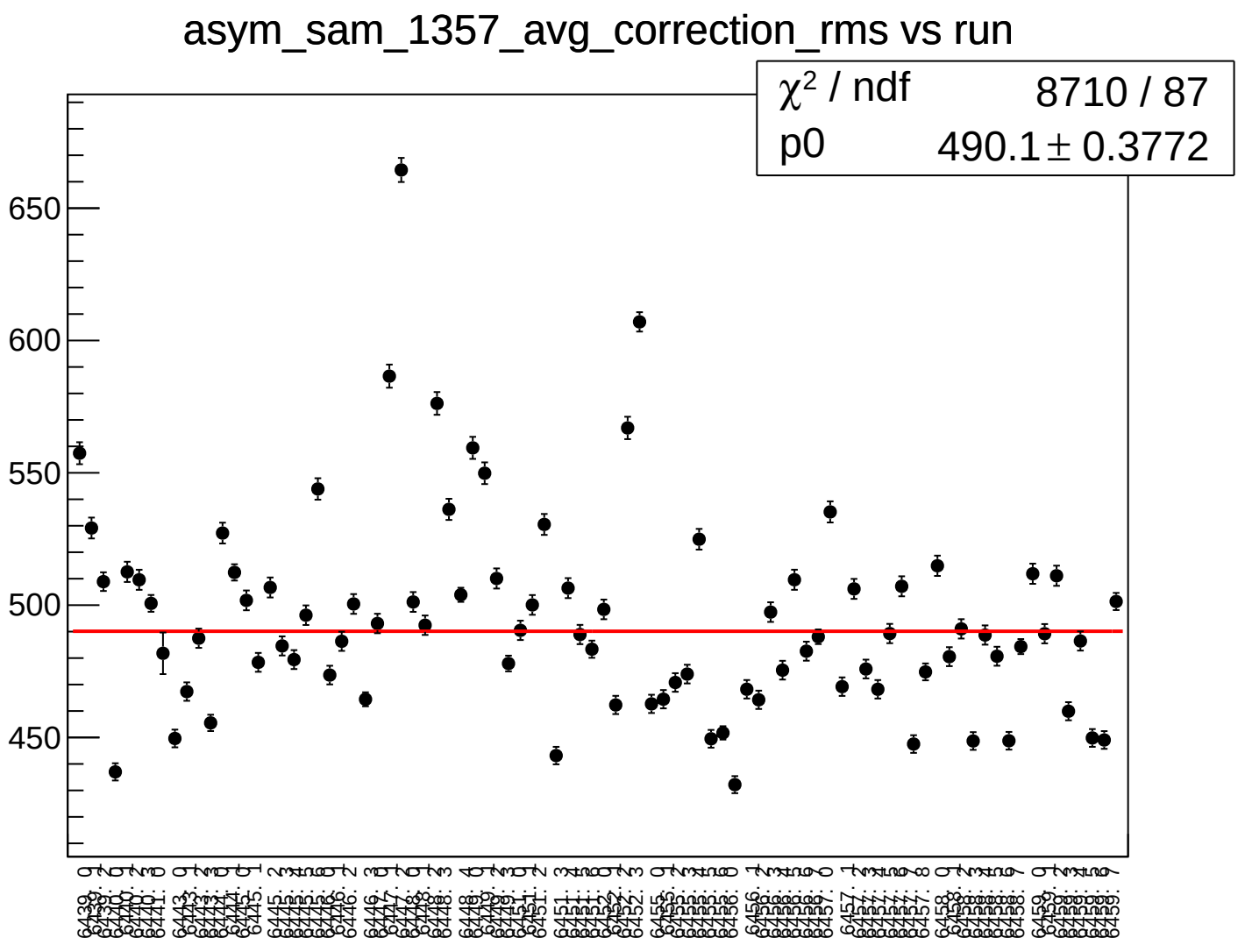

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 89.12 / 87
p0 −0.1748 ± 49.67
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −0.2749
Std Dev 37.21
2
1
0
−1
−2

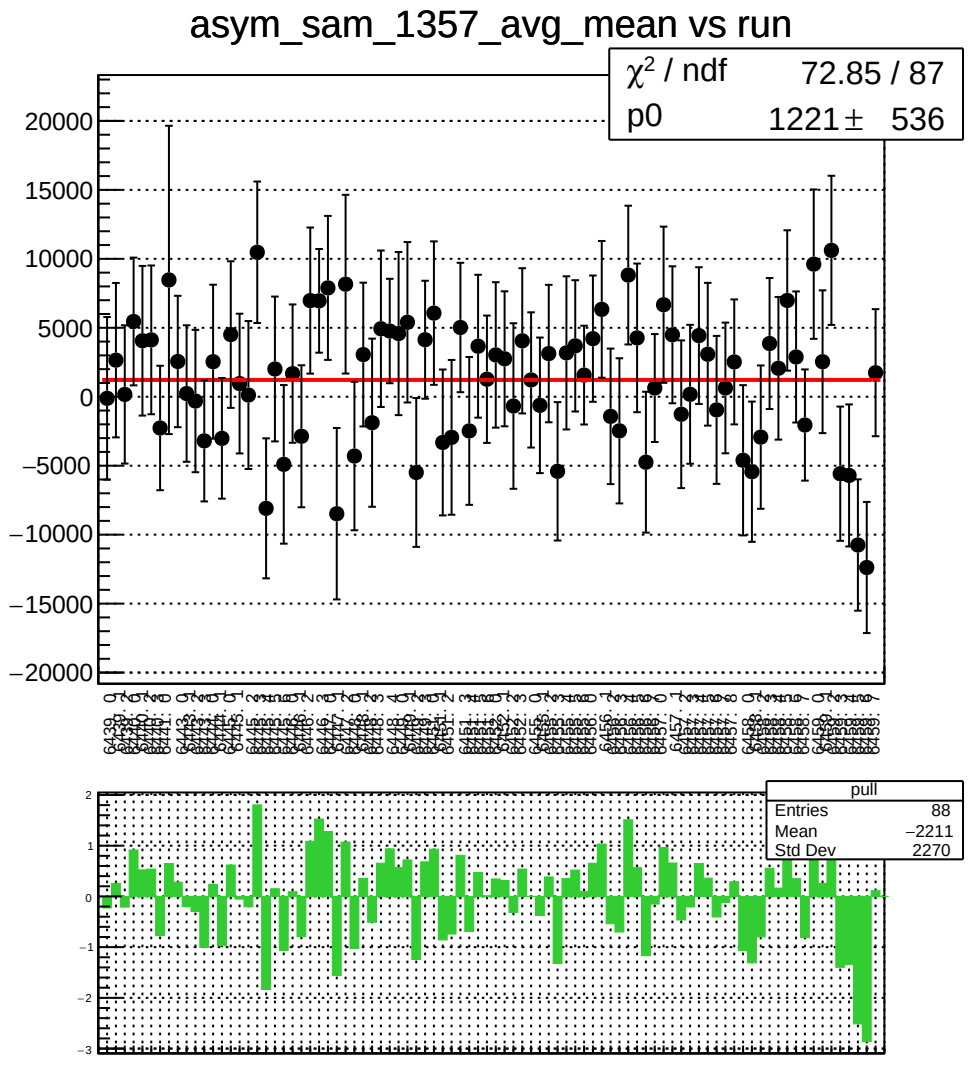

pull1D
Entries 88
Mean 0.01908
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

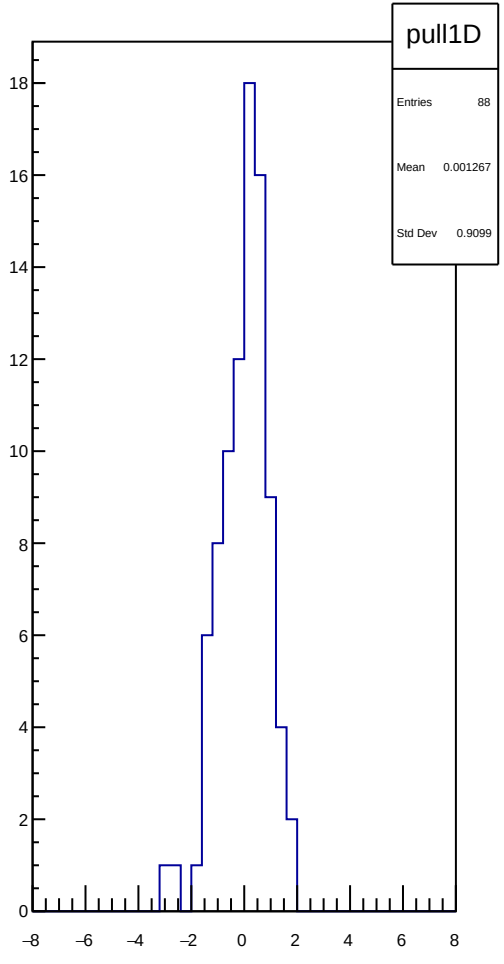

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.009e+04 / 87
p0 45.34 ± 0.03512
110
100
90
80
70
60
50
40

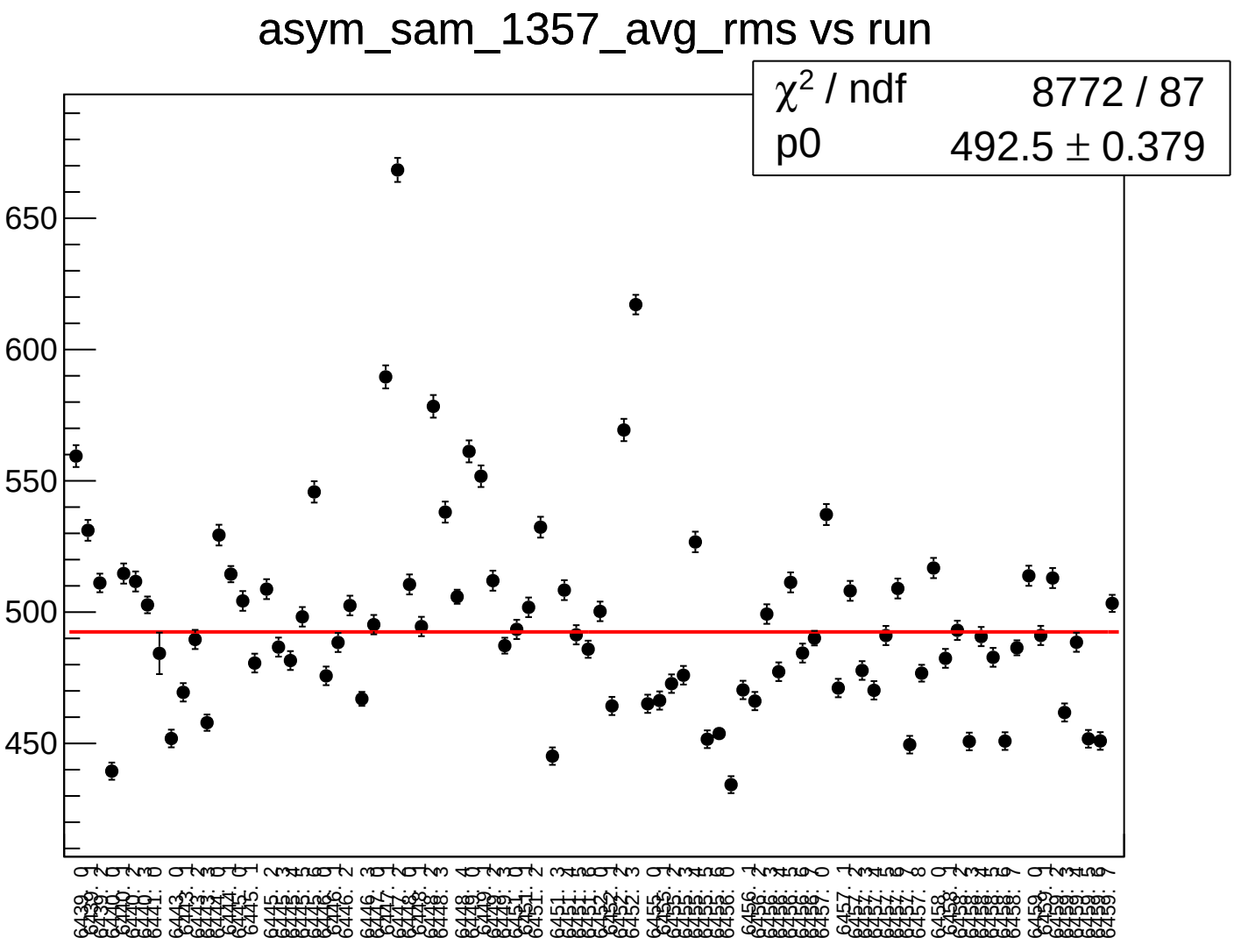

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 70.58 / 87
p0 −1192 ± 533.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean −1525
Std Dev 1584
3
2
1
0
−1
−2

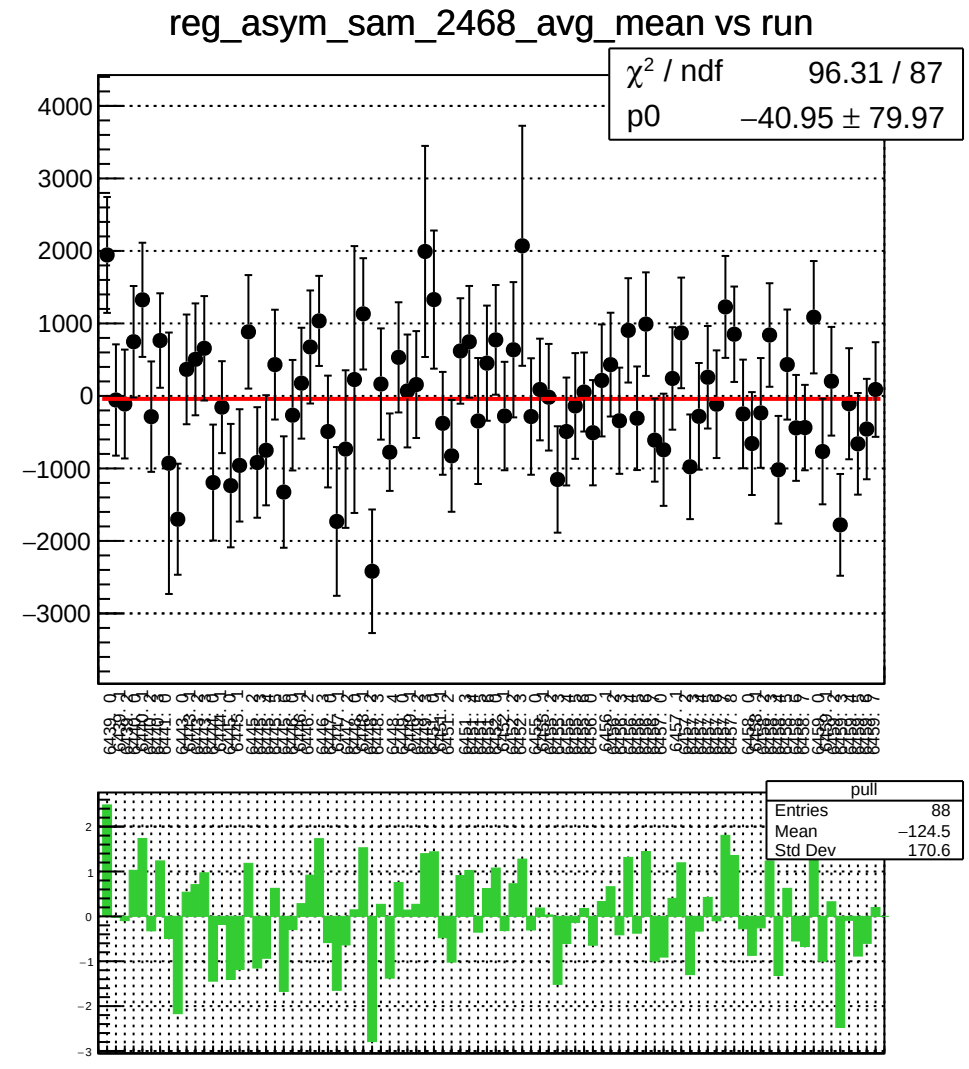

pull1D
Entries 88
Mean −0.001777
Std Dev 0.8955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

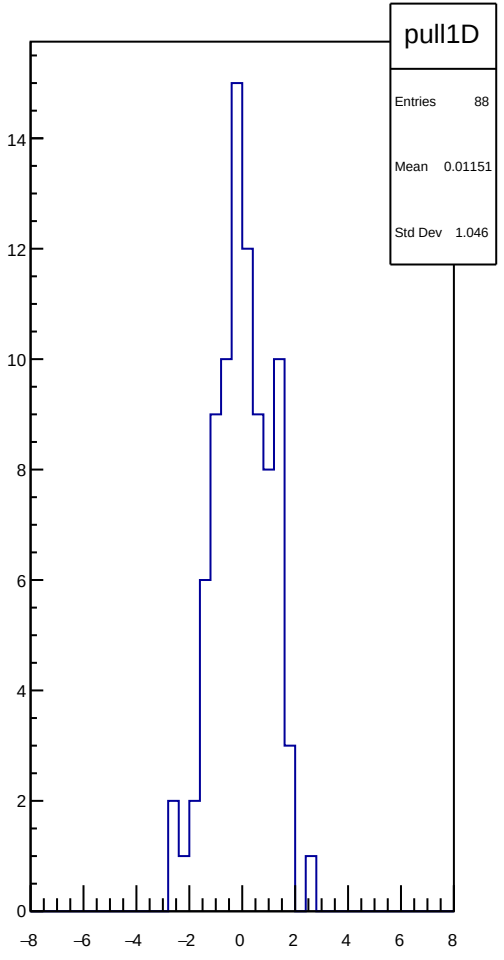

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 8710 / 87
p0 490.1 ± 0.3772
650
600
550
500
450

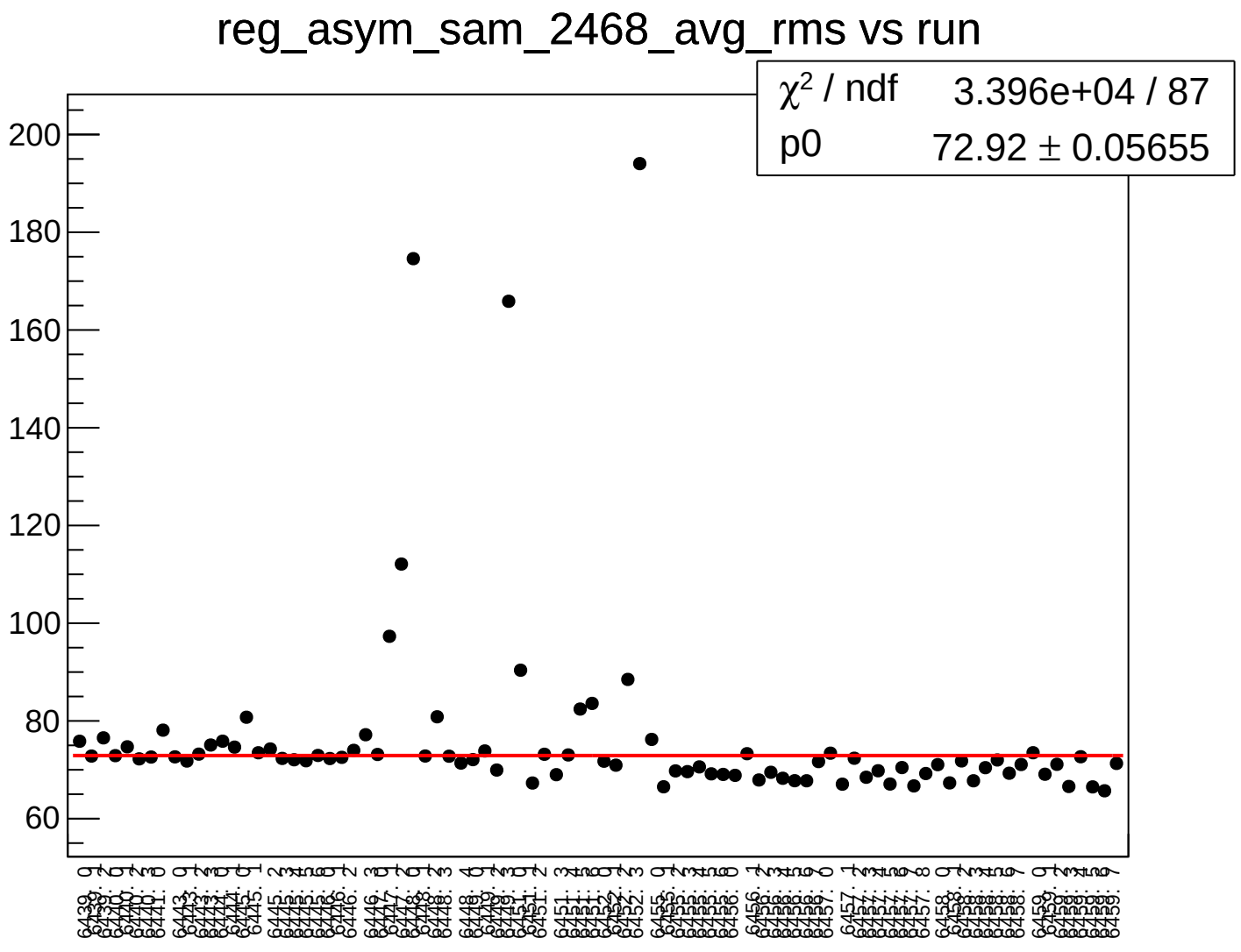

asym_sam_1357_avg_mean vs run
χ² / ndf 72.85 / 87
p0 1221 ± 536
pull
Entries 88
Mean −2211
Std Dev 2270

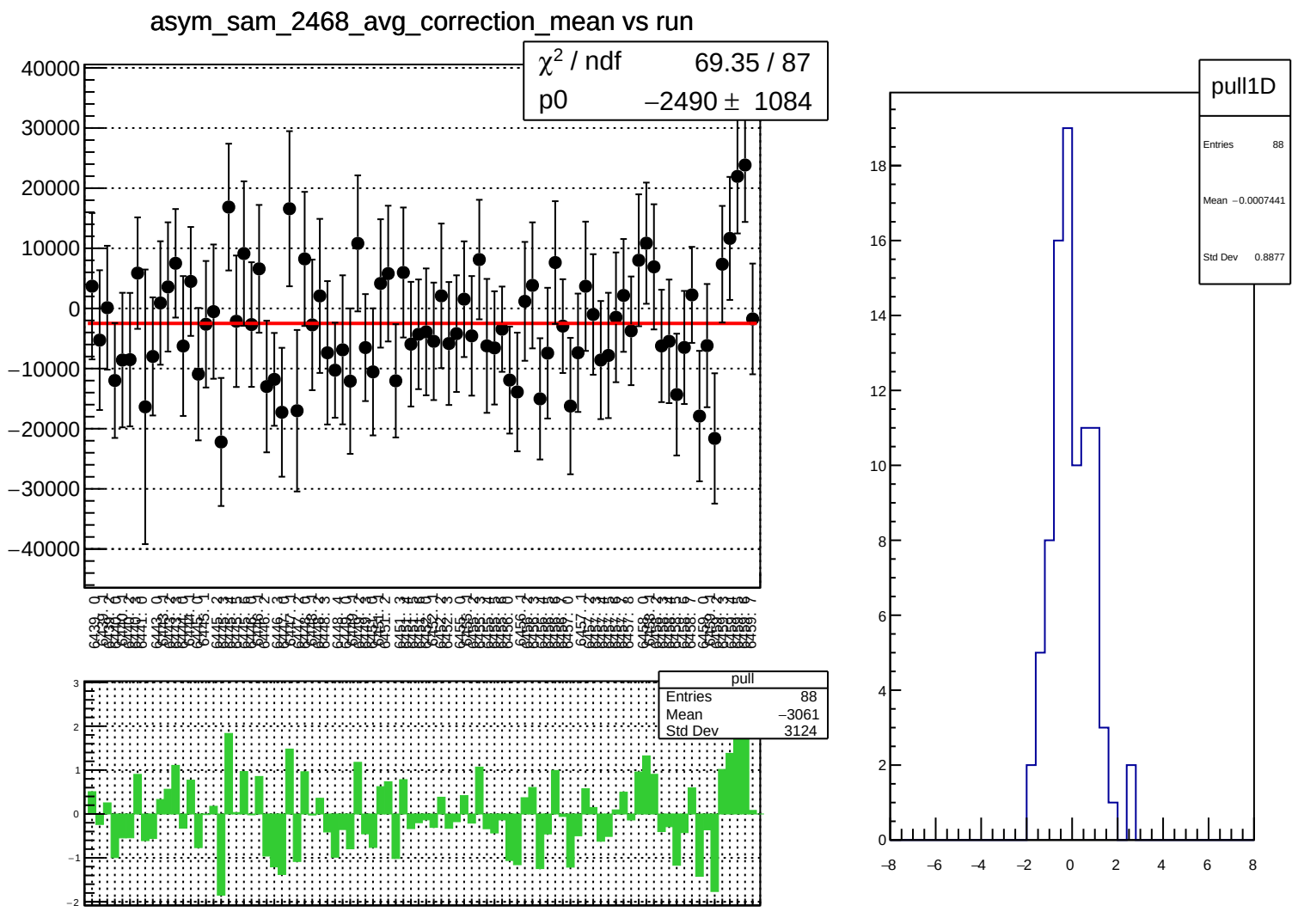

pull1D
Entries 88
Mean 0.001267
Std Dev 0.9099

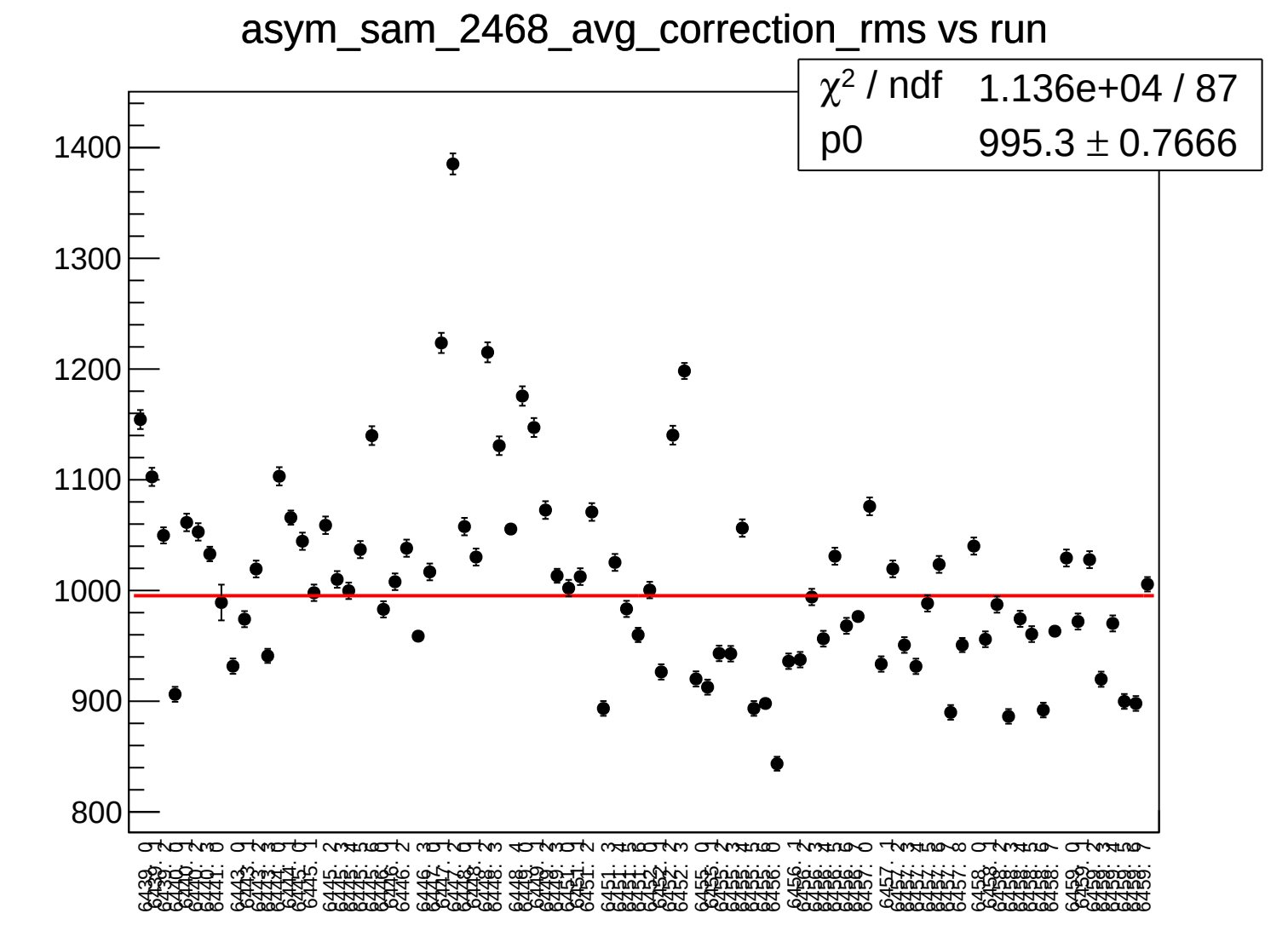

asym_sam_1357_avg_rms vs run
χ^2 / ndf 8772 / 87
p0 492.5 ± 0.379
650
600
550
500
450

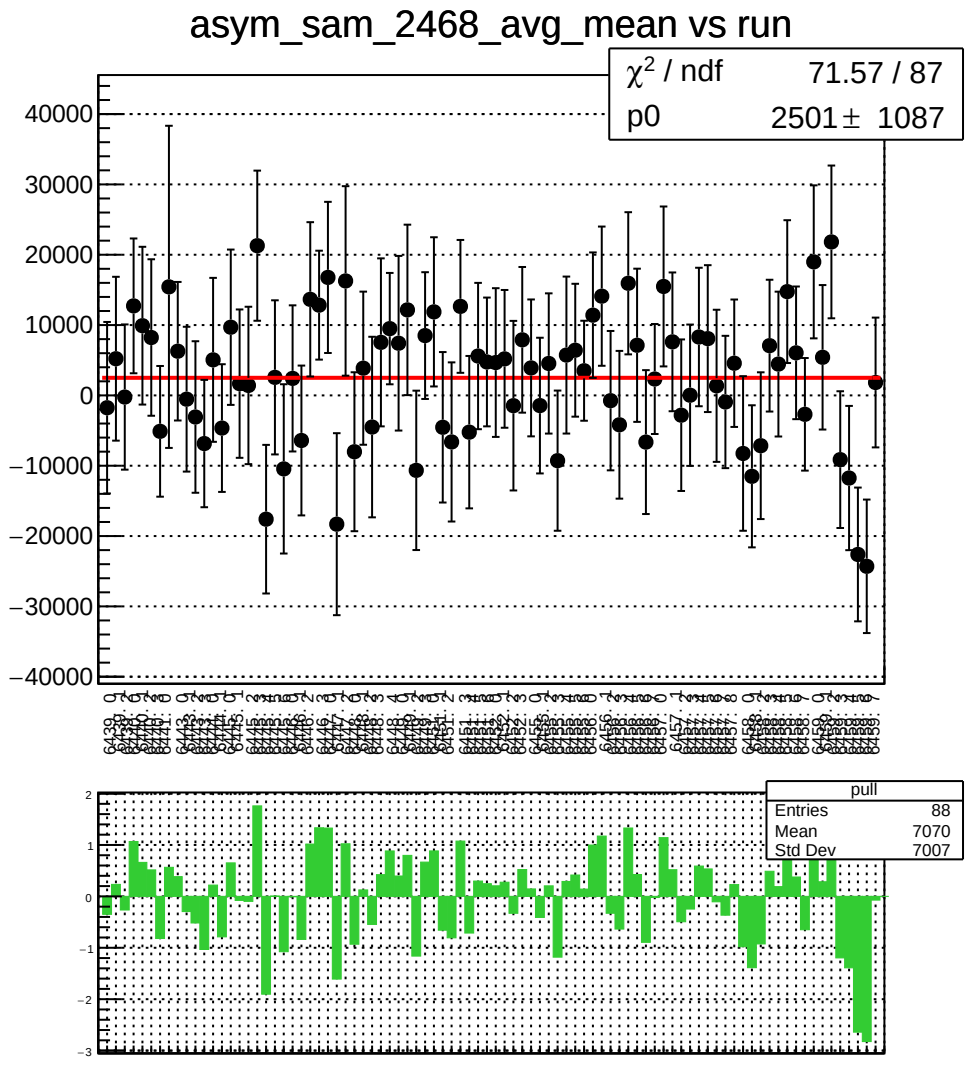

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 96.31 / 87
p0 −40.95 ± 79.97
pull
Entries 88
Mean −124.5
Std Dev 170.6

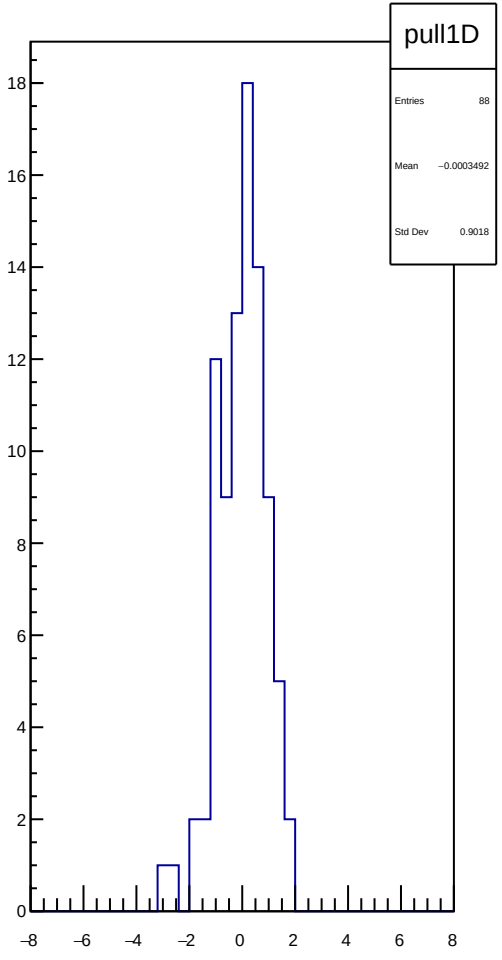

pull1D
Entries 88
Mean 0.01151
Std Dev 1.046

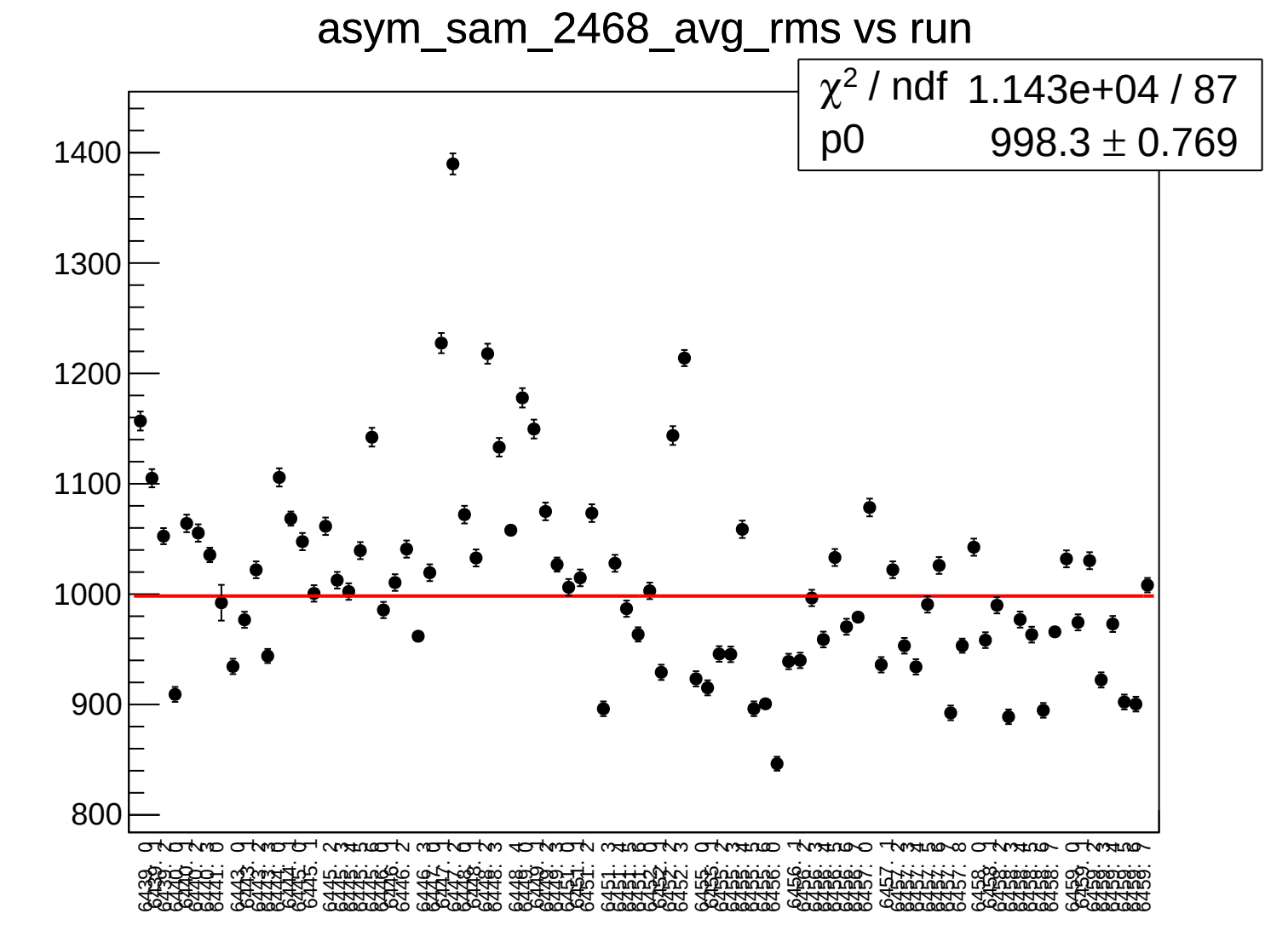

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 3.396e+04 / 87
p0 72.92 ± 0.05655
200
180
160
140
120
100
80
60

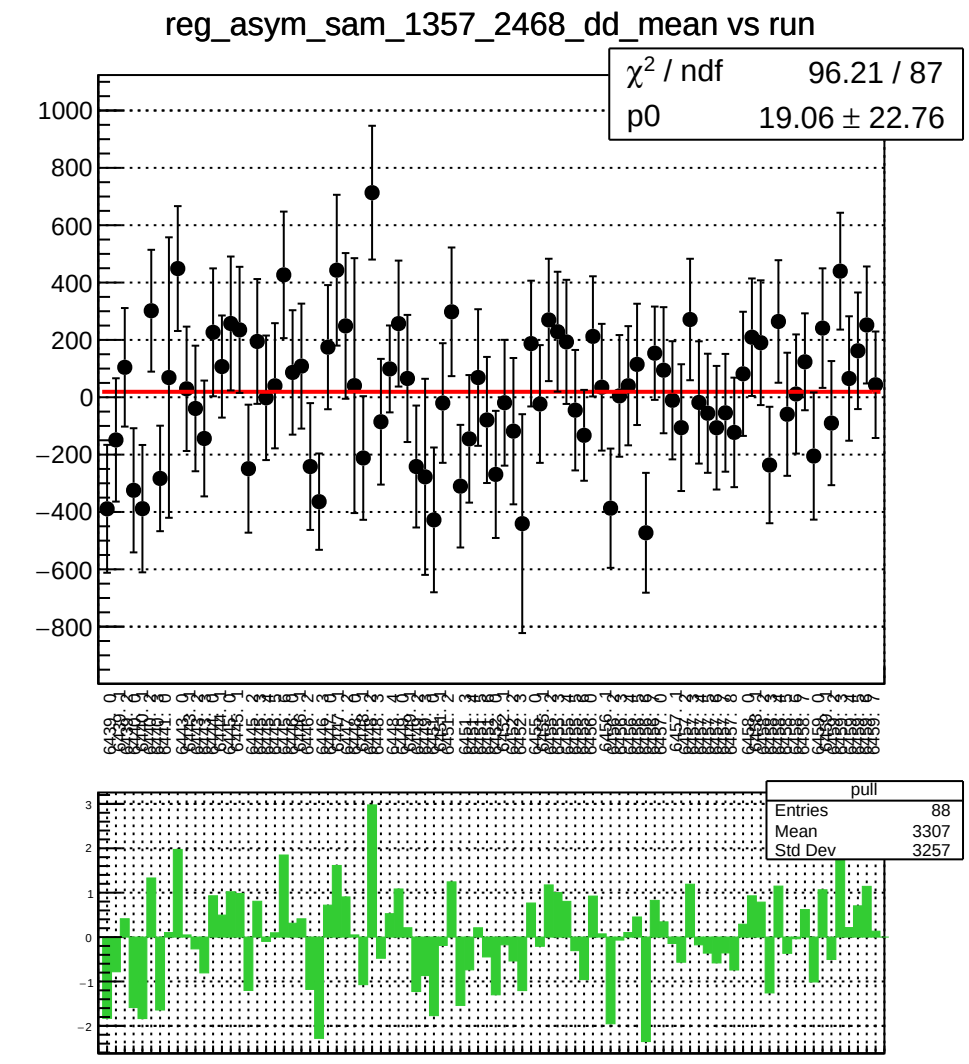

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 69.35 / 87
p0 −2490 ± 1084
pull
Entries 88
Mean −3061
Std Dev 3124
pull1D
Entries 88
Mean −0.0007441
Std Dev 0.8877

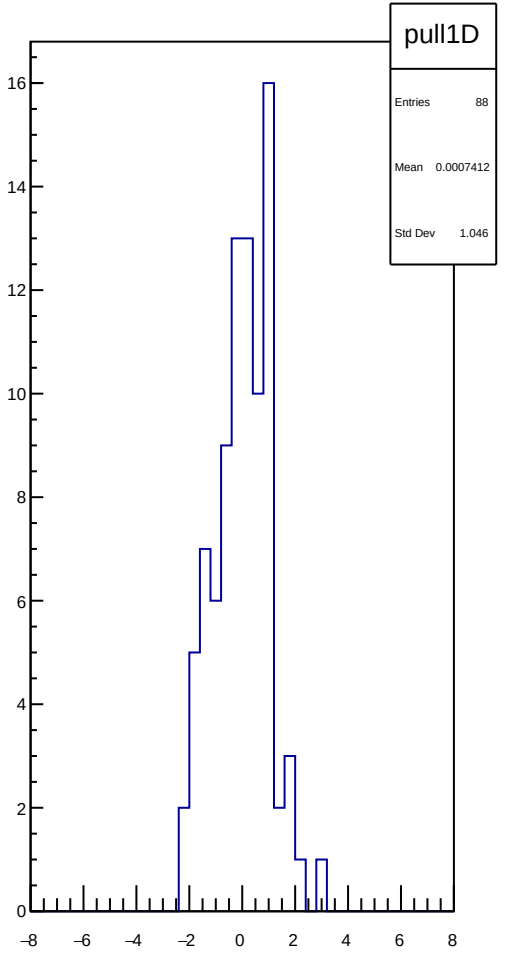

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 1.136e+04 / 87
p0 995.3 ± 0.7666
1400
1300
1200
1100
1000
900
800

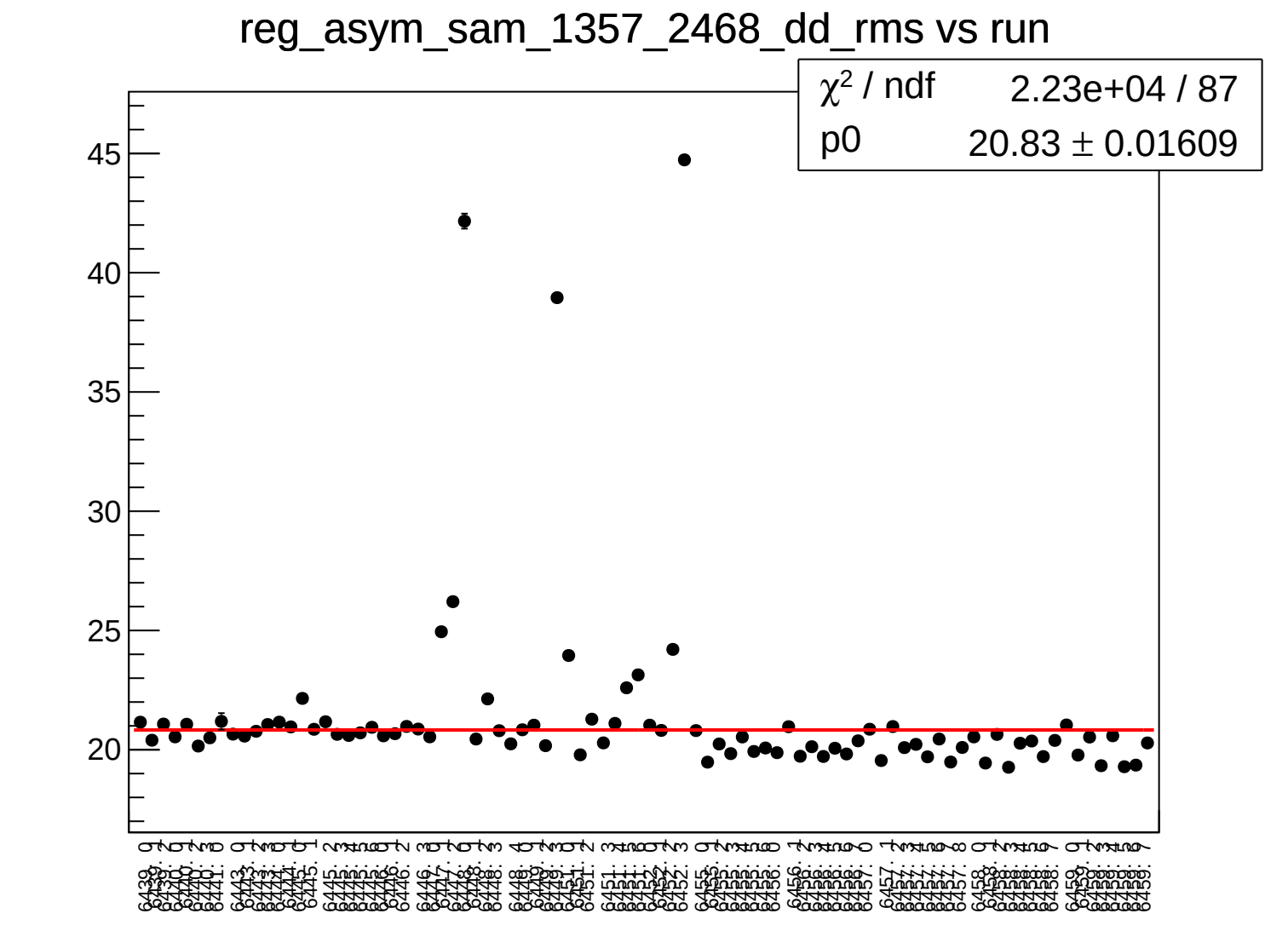

asym_sam_2468_avg_mean vs run
χ² / ndf 71.57 / 87
p0 2501 ± 1087
pull
Entries 88
Mean 7070
Std Dev 7007

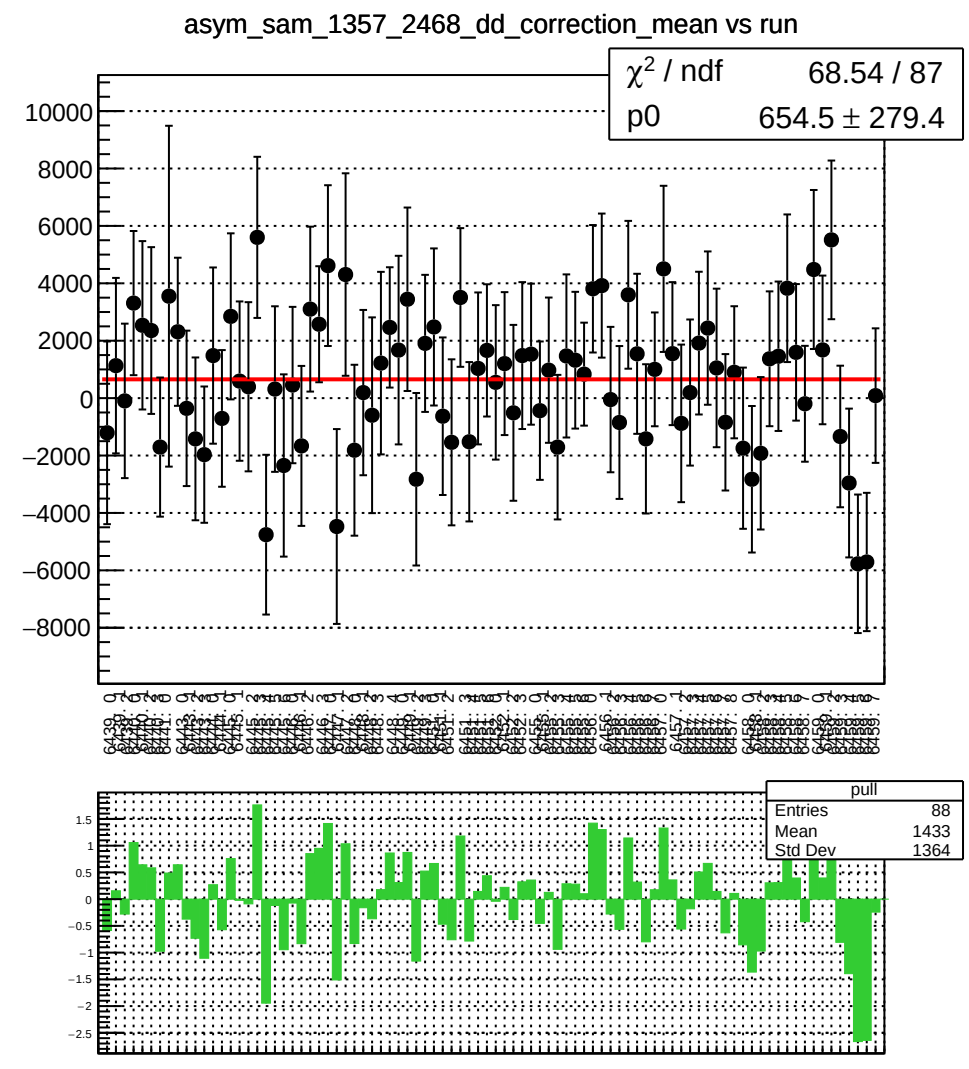

pull1D
Entries 88
Mean −0.0003492
Std Dev 0.9018

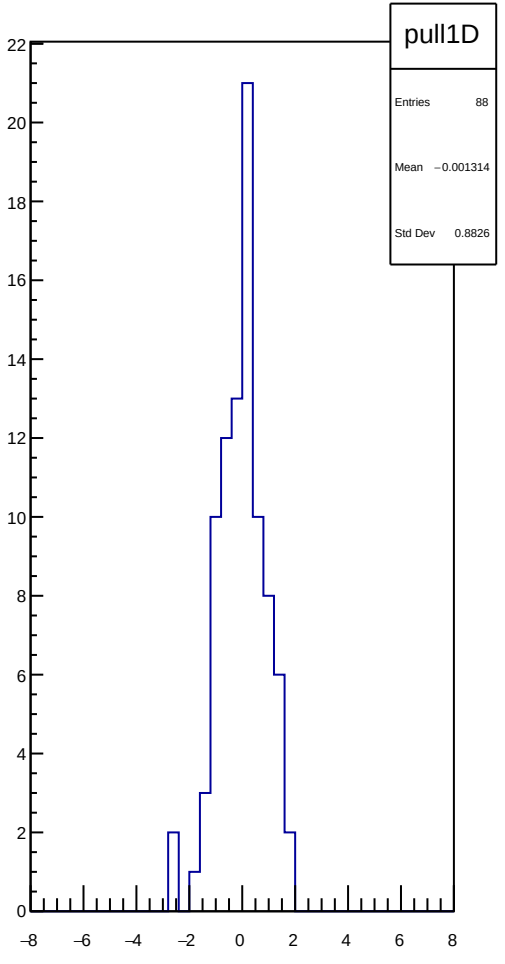

asym_sam_2468_avg_rms vs run
χ² / ndf 1.143e+04 / 87
p0 998.3 ± 0.769
1400
1300
1200
1100
1000
900
800

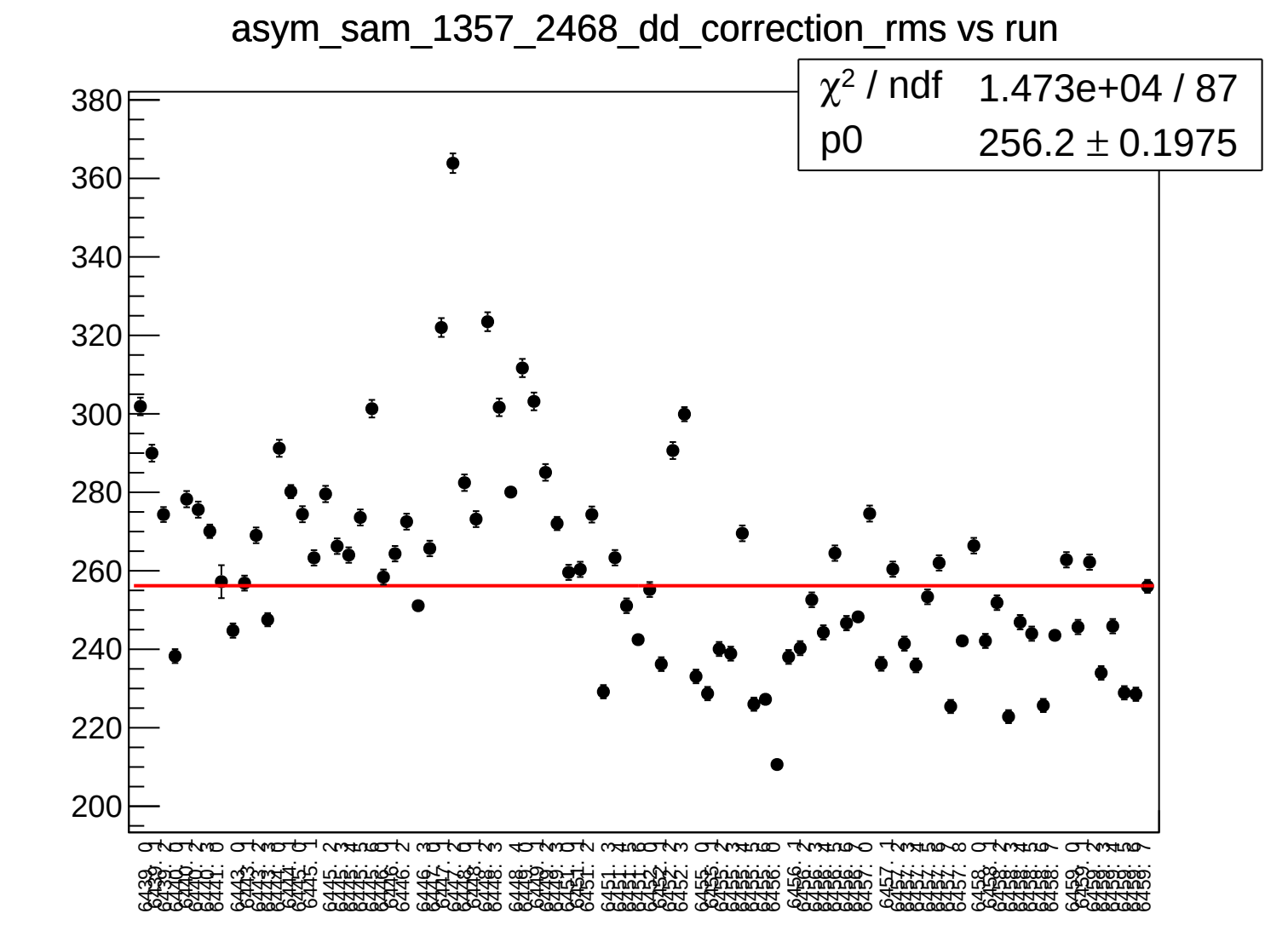

reg_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 96.21 / 87
p0 19.06 ± 22.76
pull
Entries 88
Mean 3307
Std Dev 3257

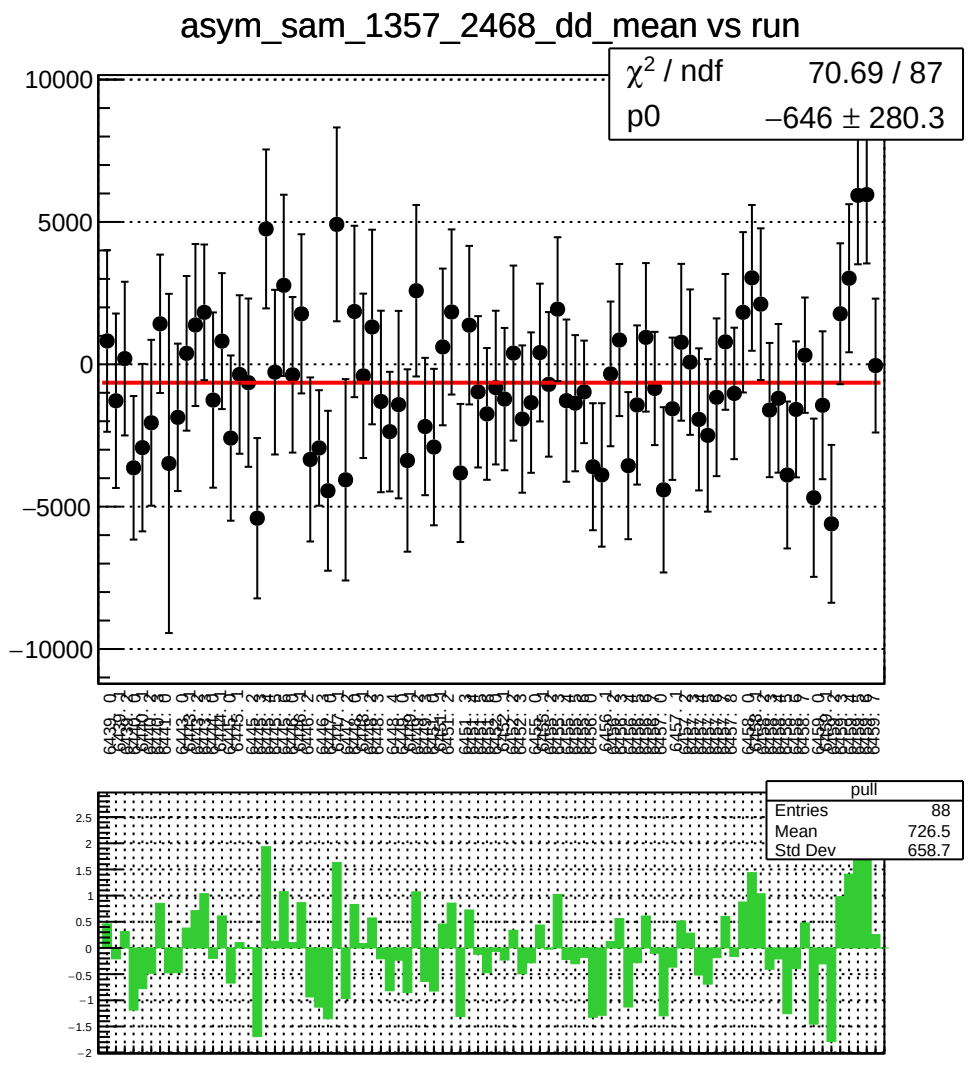

pull1D
Entries 88
Mean 0.0007412
Std Dev 1.046

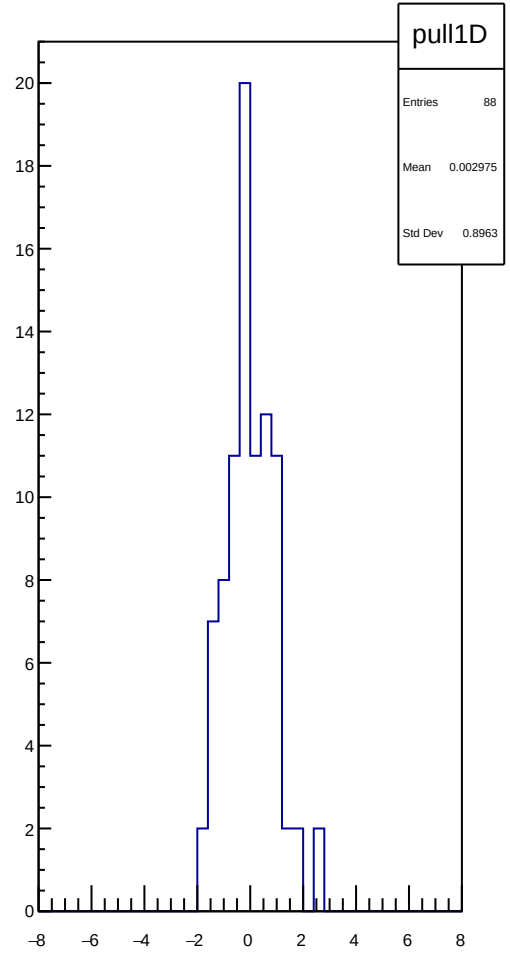

reg_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 2.23e+04 / 87
p0 20.83 ± 0.01609
45
40
35
30
25
20

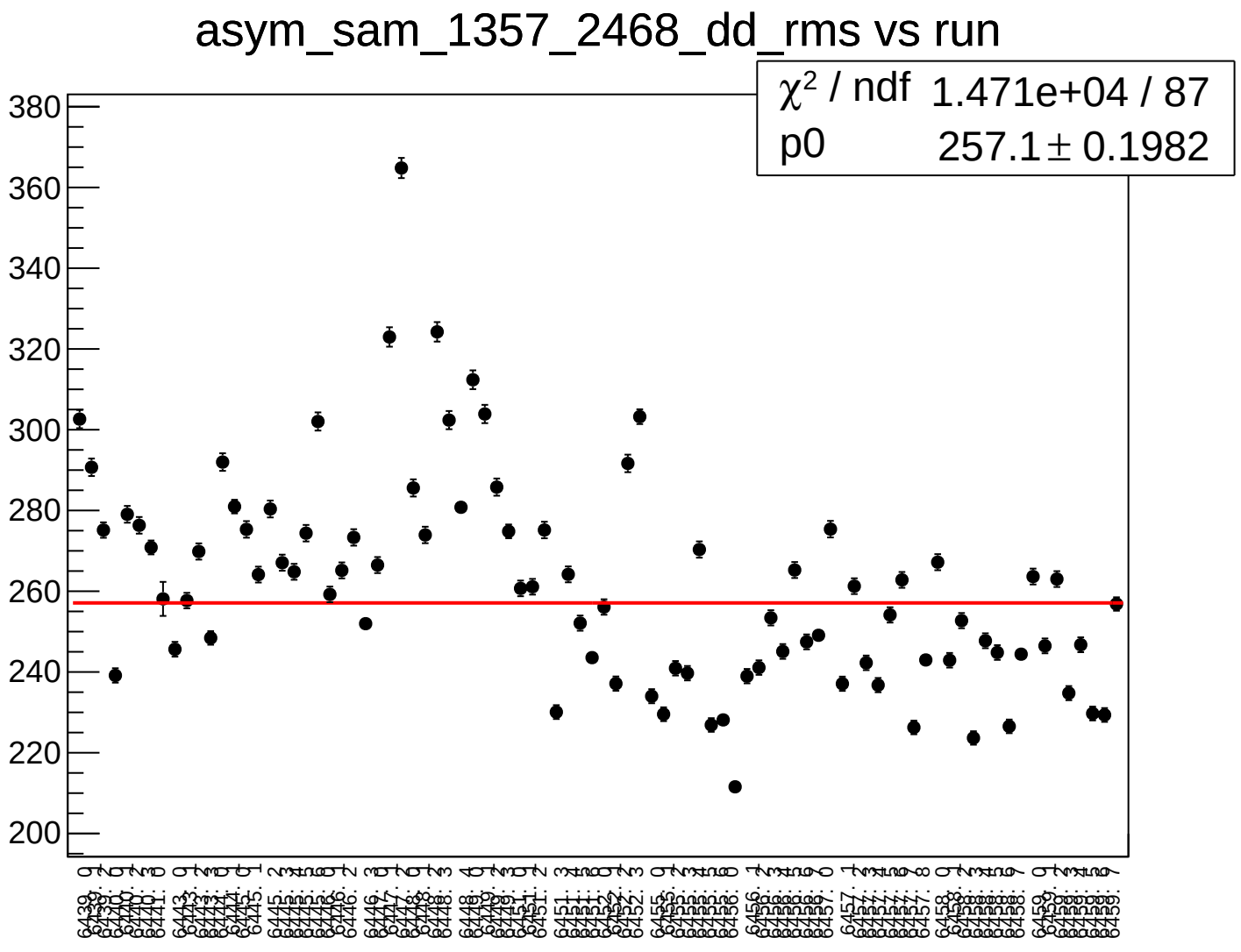

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 68.54 / 87
p0 654.5 ± 279.4
pull
Entries 88
Mean 1433
Std Dev 1364

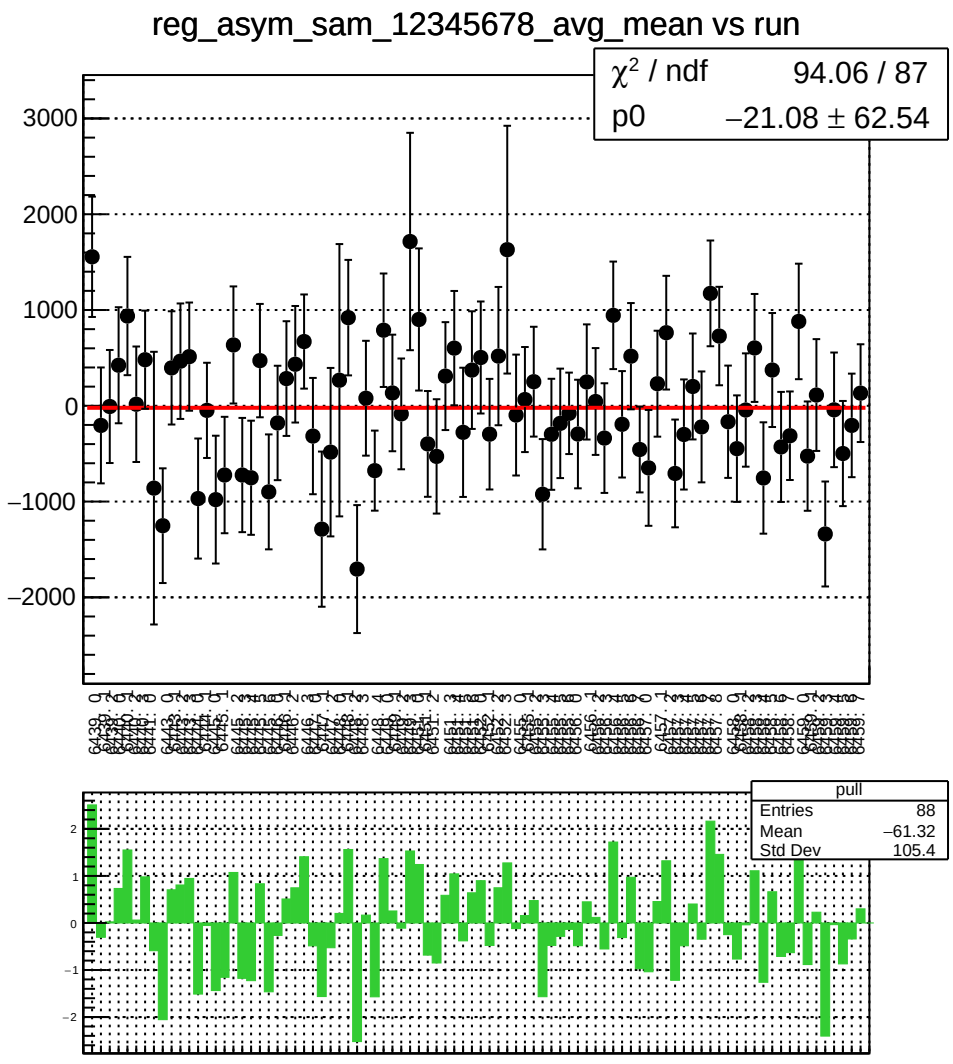

pull1D
Entries 88
Mean −0.001314
Std Dev 0.8826

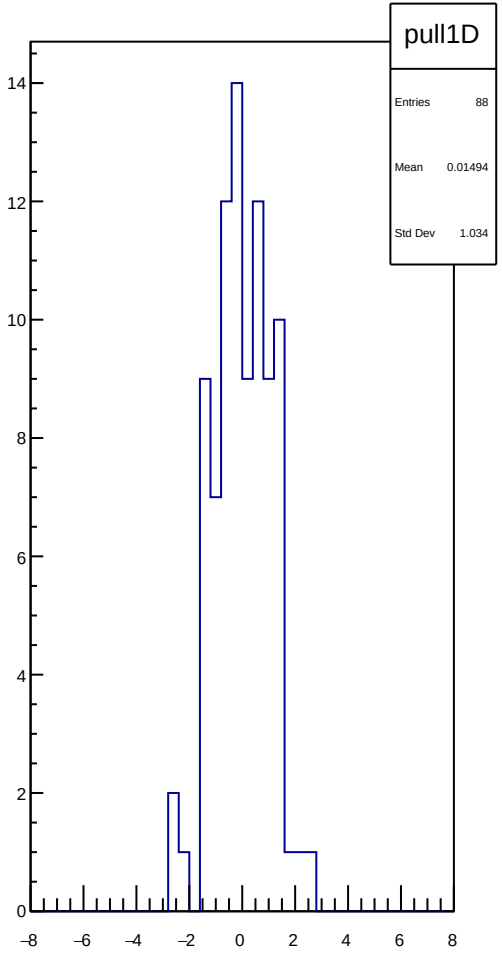

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1.473e+04 / 87
p0 256.2 ± 0.1975
380
360
340
320
300
280
260
240
220
200

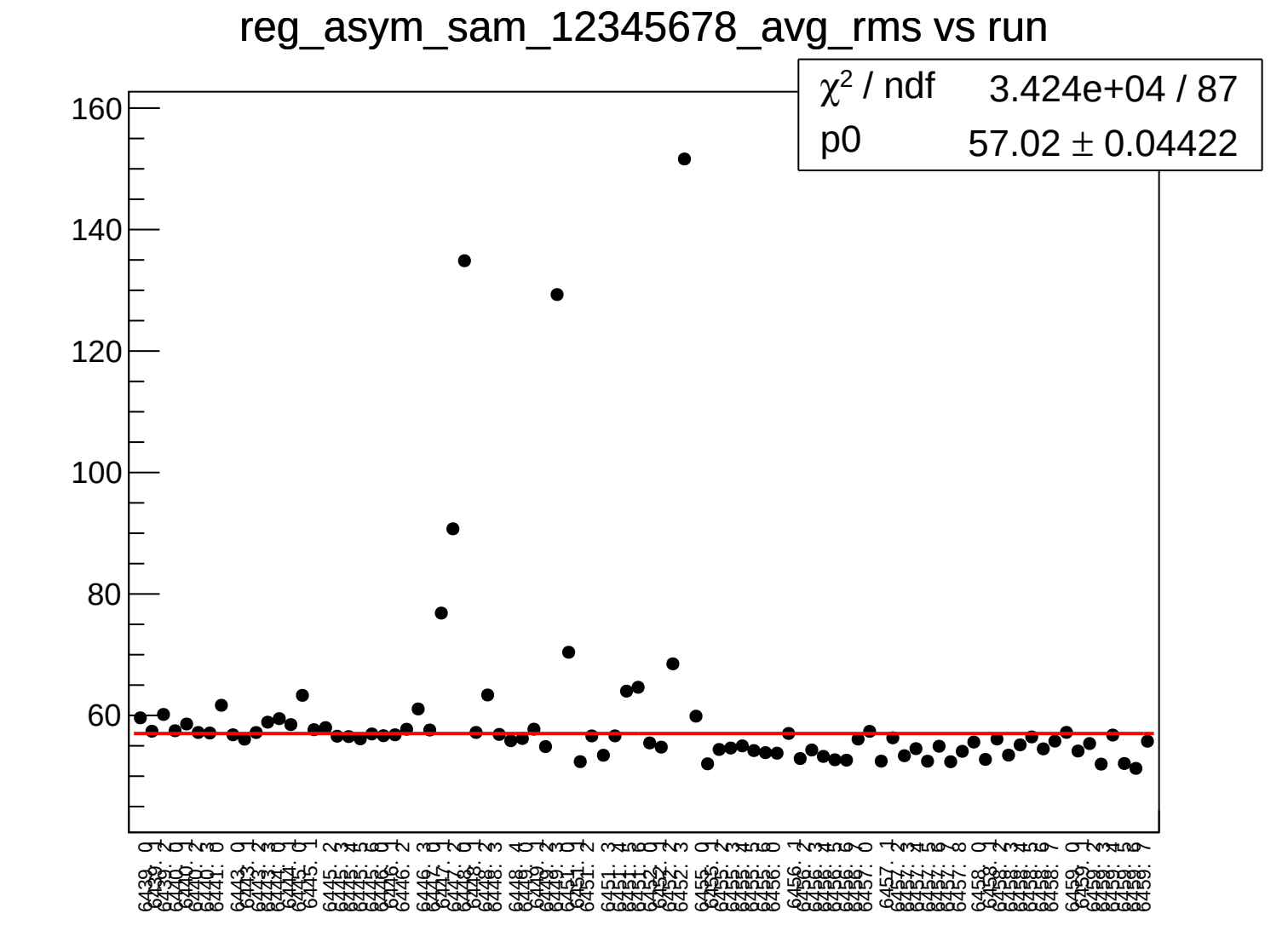

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 70.69 / 87
p0 −646 ± 280.3
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 726.5
Std Dev 658.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

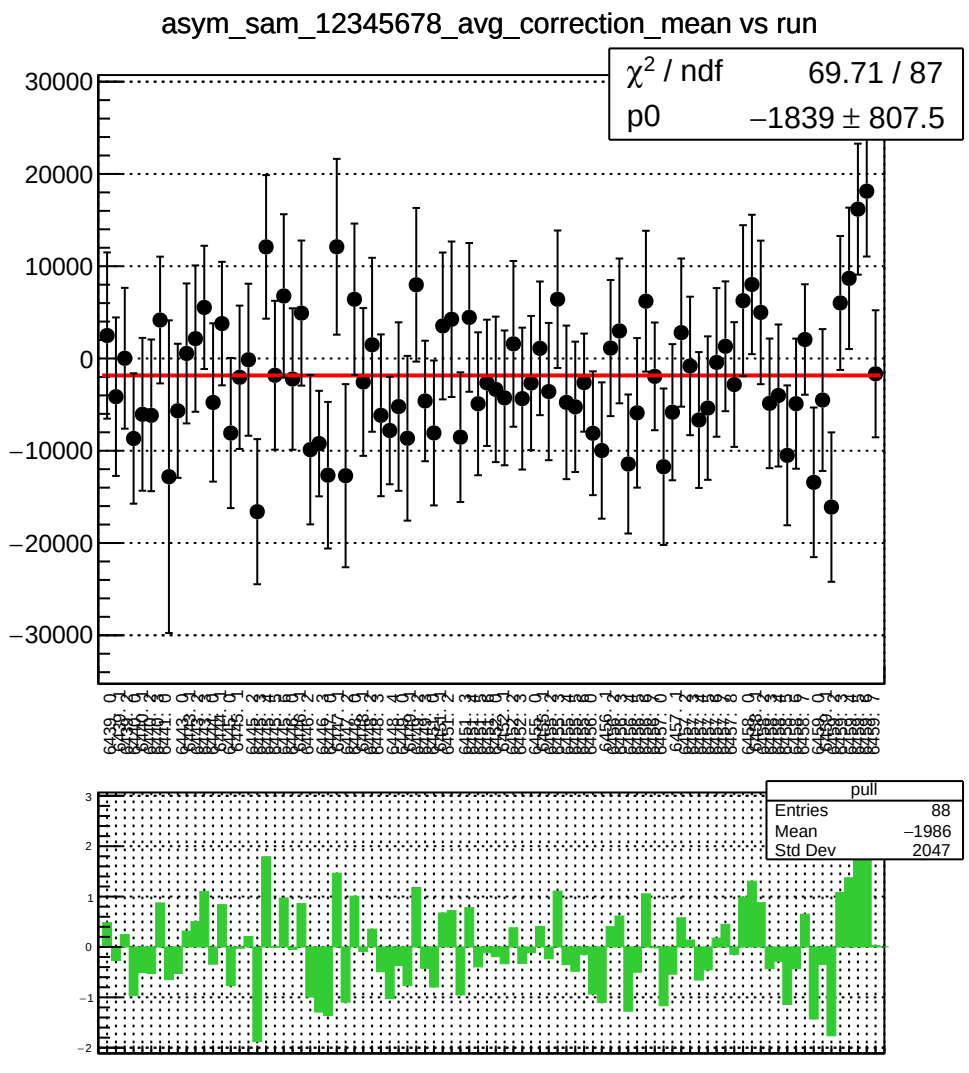

pull1D
Entries 88
Mean 0.002975
Std Dev 0.8963
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

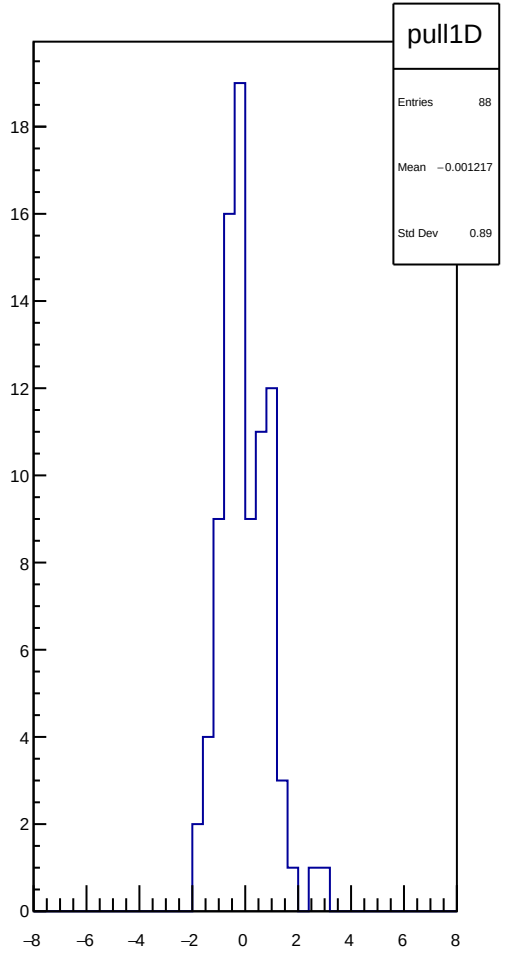

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.471e+04 / 87
p0 257.1 ± 0.1982
380
360
340
320
300
280
260
240
220
200

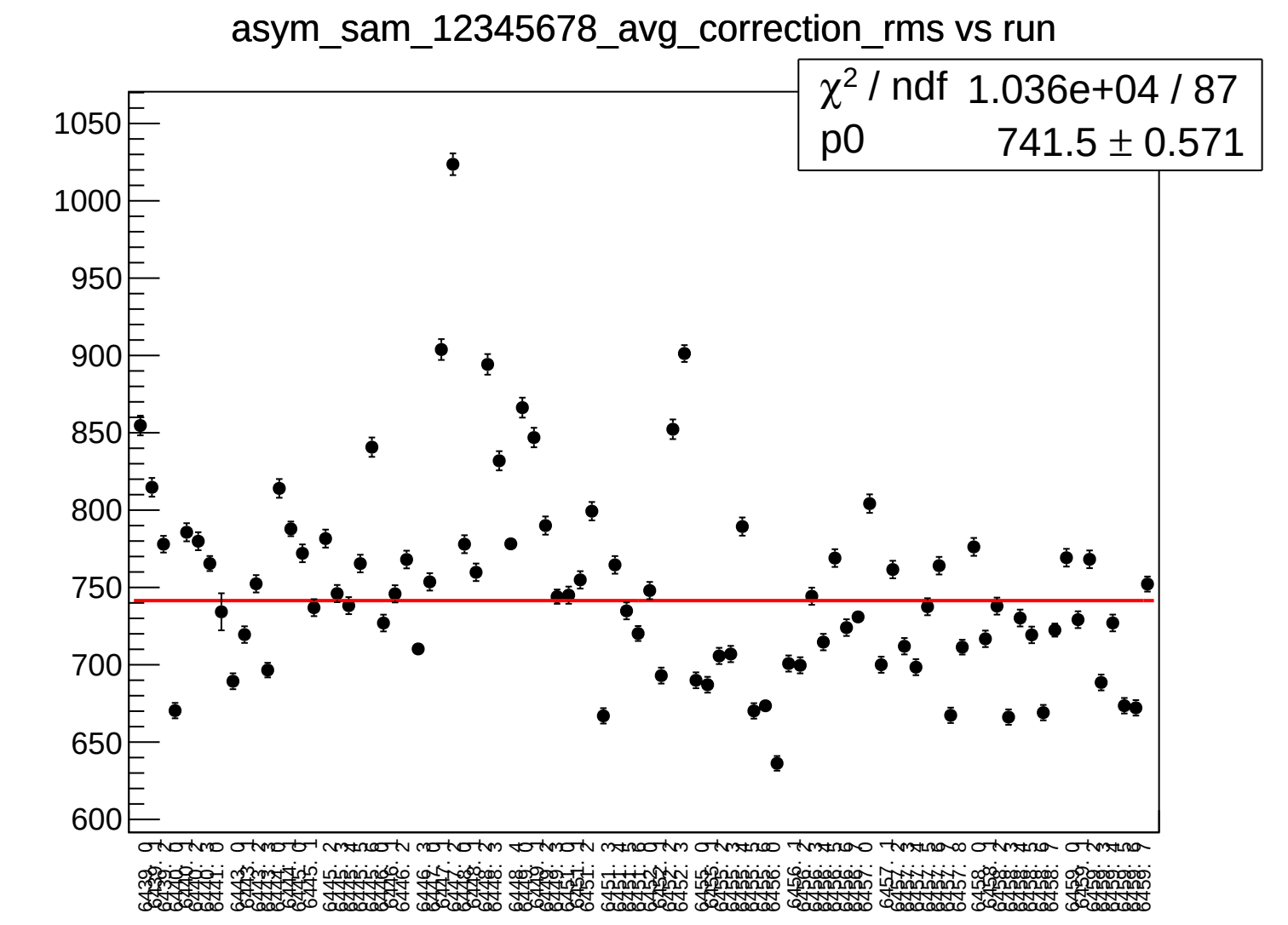

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 94.06 / 87
p0 −21.08 ± 62.54
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −61.32
Std Dev 105.4
2
1
0
−1
−2

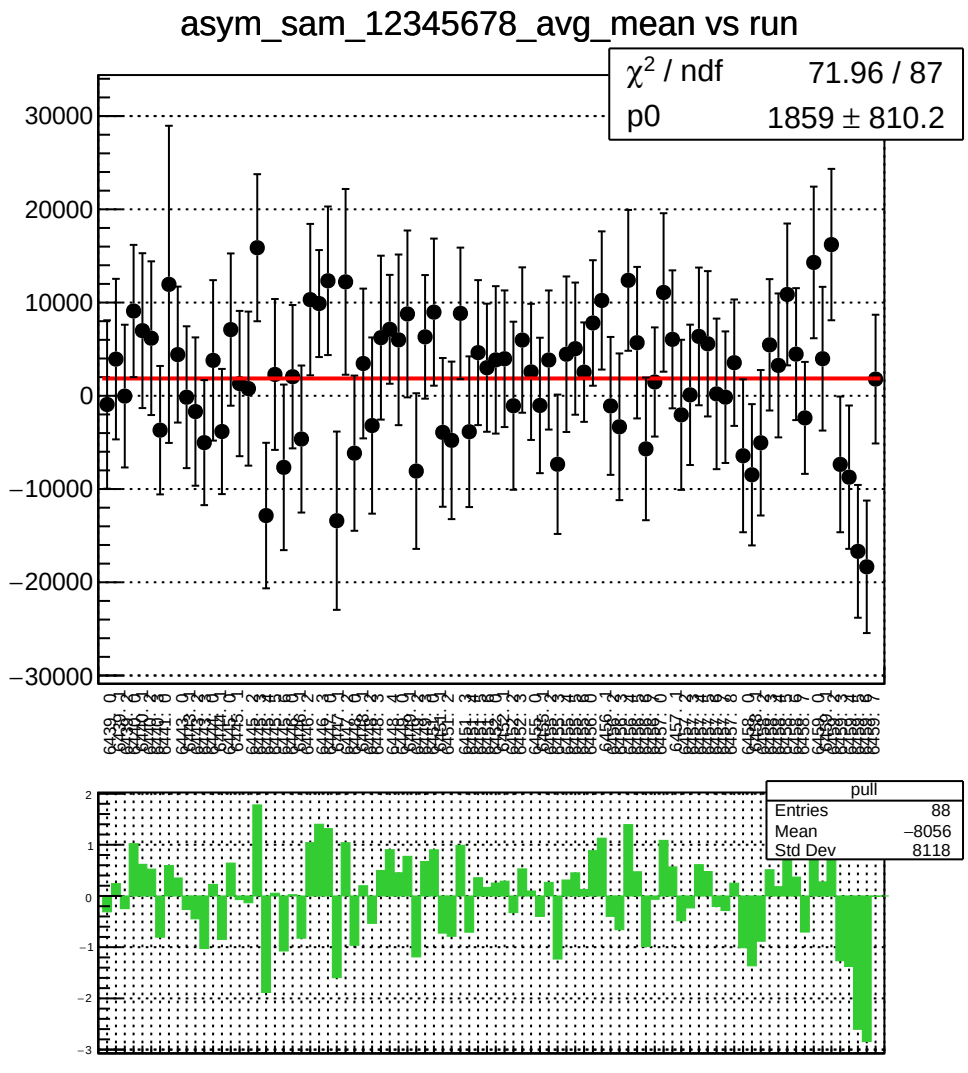

pull1D
Entries 88
Mean 0.01494
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

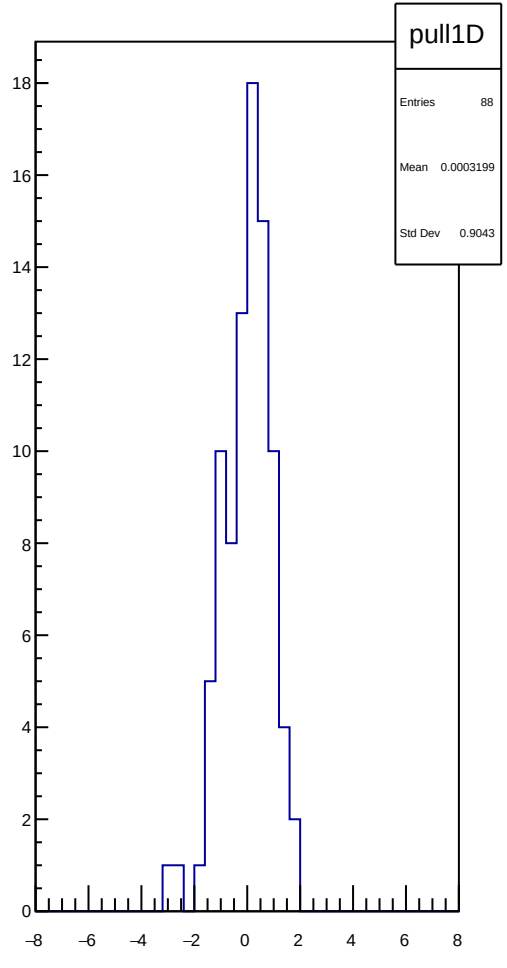

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.424e+04 / 87
p0 57.02 ± 0.04422
160
140
120
100
80
60

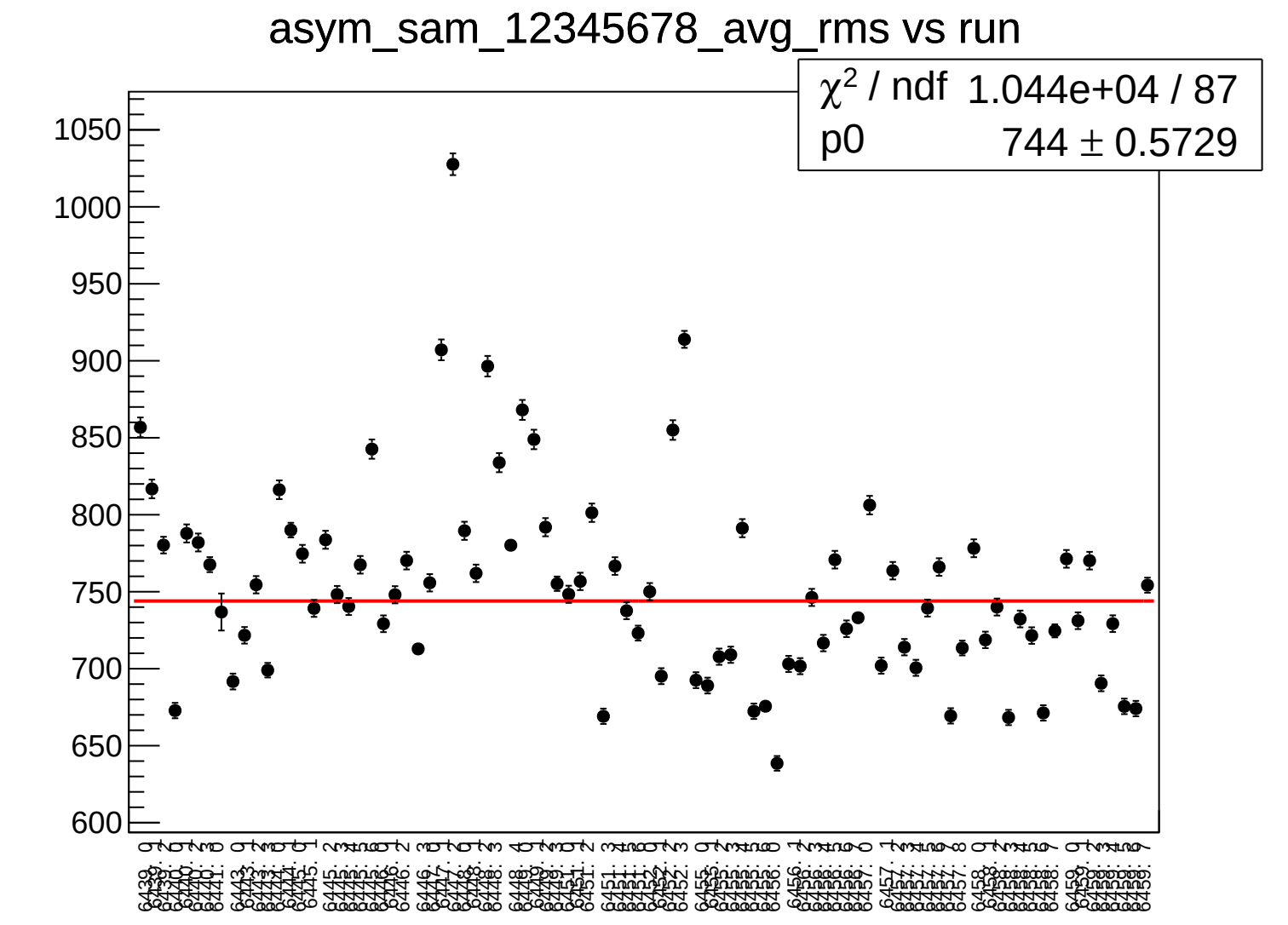

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 69.71 / 87
p0 −1839 ± 807.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −1986
Std Dev 2047
3
2
1
0
−1
−2

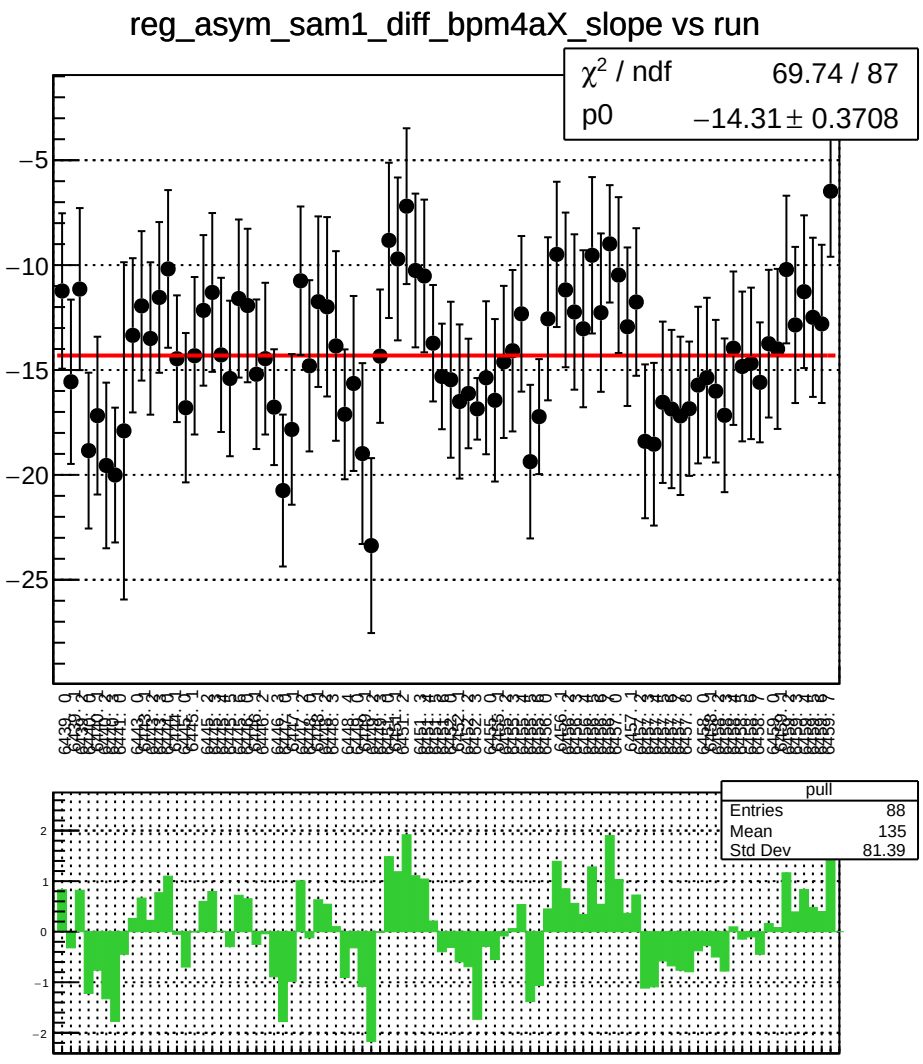

pull1D
Entries 88
Mean −0.001217
Std Dev 0.89
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

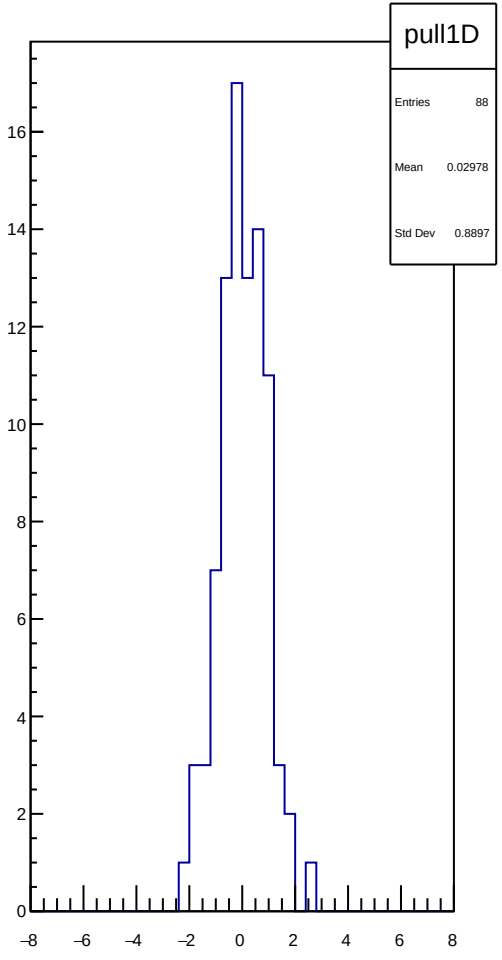

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 1.036e+04 / 87
p0 741.5 ± 0.571
1050
1000
950
900
850
800
750
700
650
600

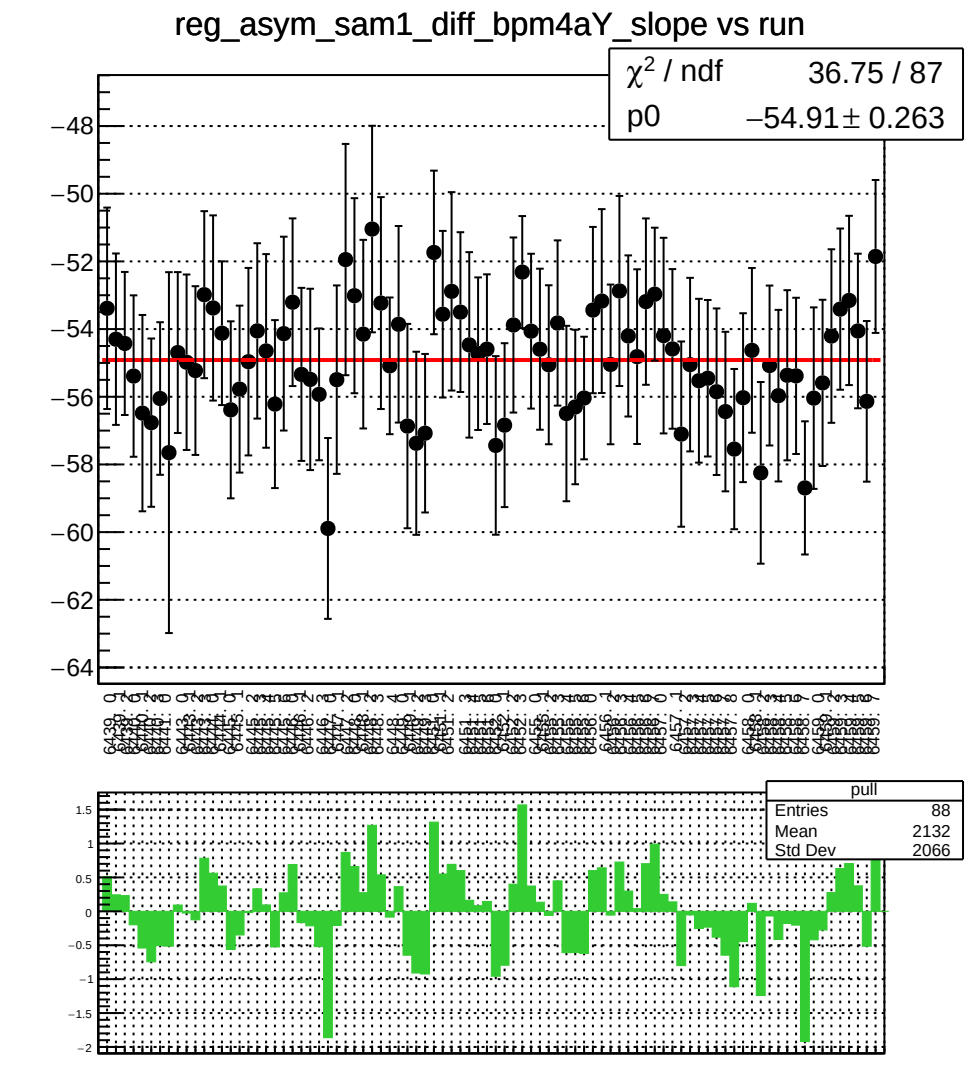

asym_sam_12345678_avg_mean vs run
χ² / ndf 71.96 / 87
p0 1859 ± 810.2
pull
Entries 88
Mean −8056
Std Dev 8118

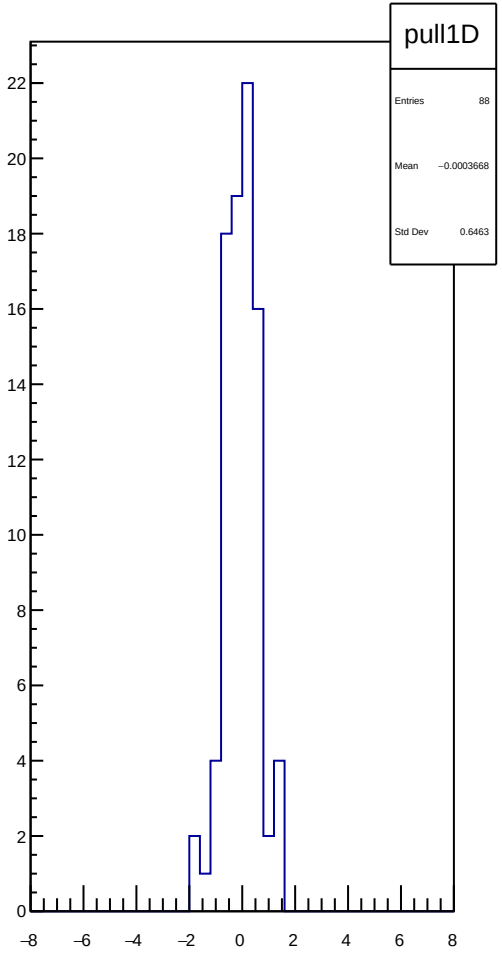

pull1D
Entries 88
Mean 0.0003199
Std Dev 0.9043

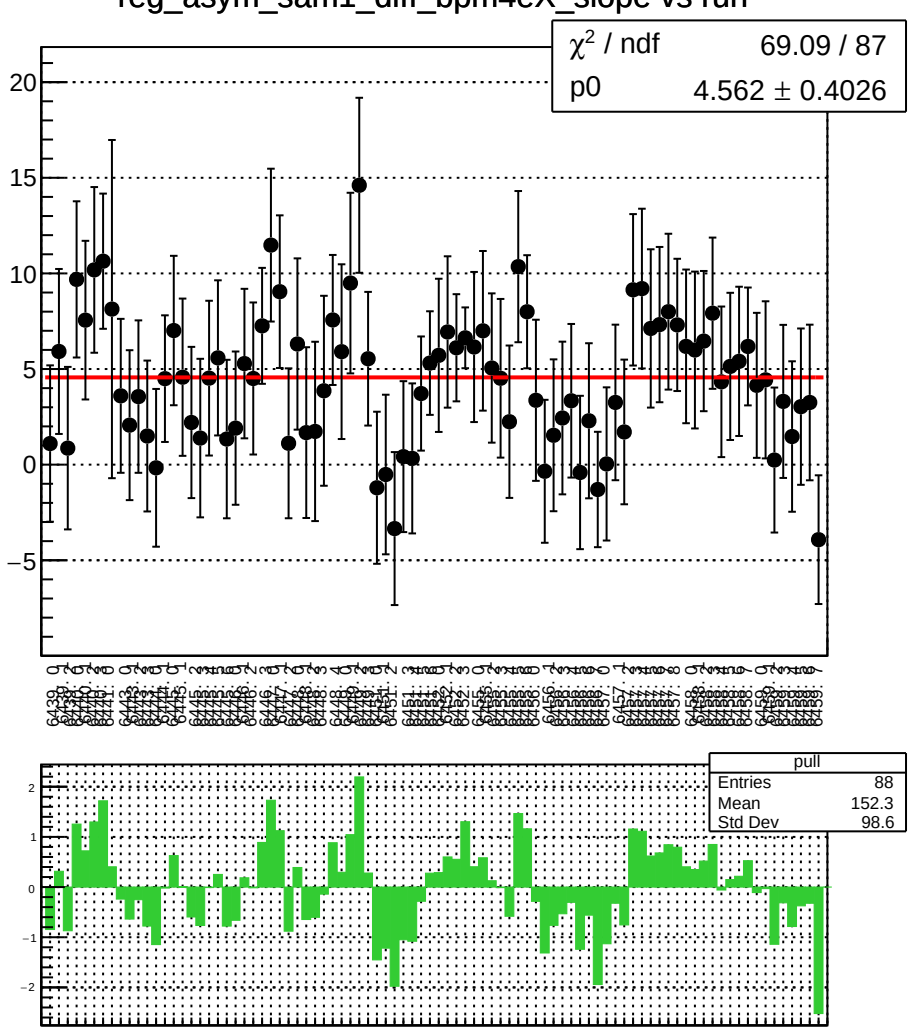

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.044e+04 / 87
p0 744 ± 0.5729
1050
1000
950
900
850
800
750
700
650
600

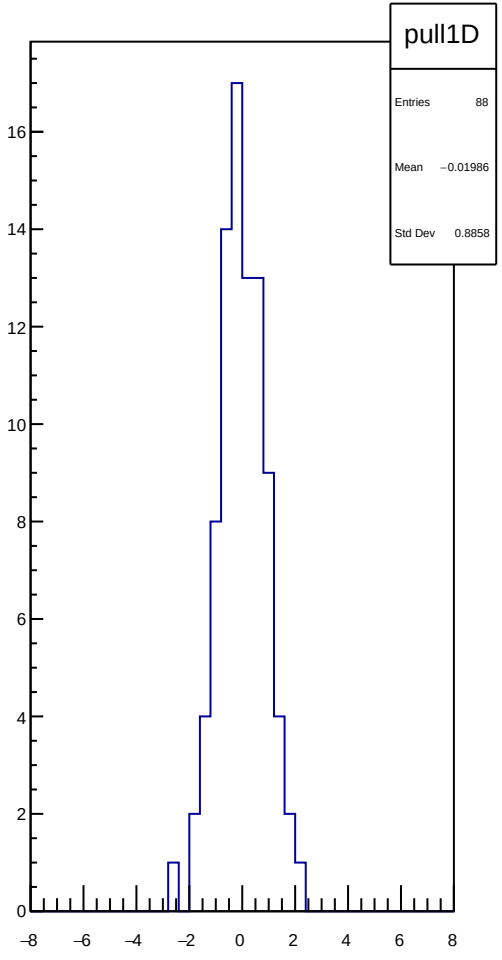

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 69.74 / 87
p0 −14.31 ± 0.3708
−5
−10
−15
−20
−25
pull
Entries 88
Mean 135
Std Dev 81.39
2
1
0
−1
−2

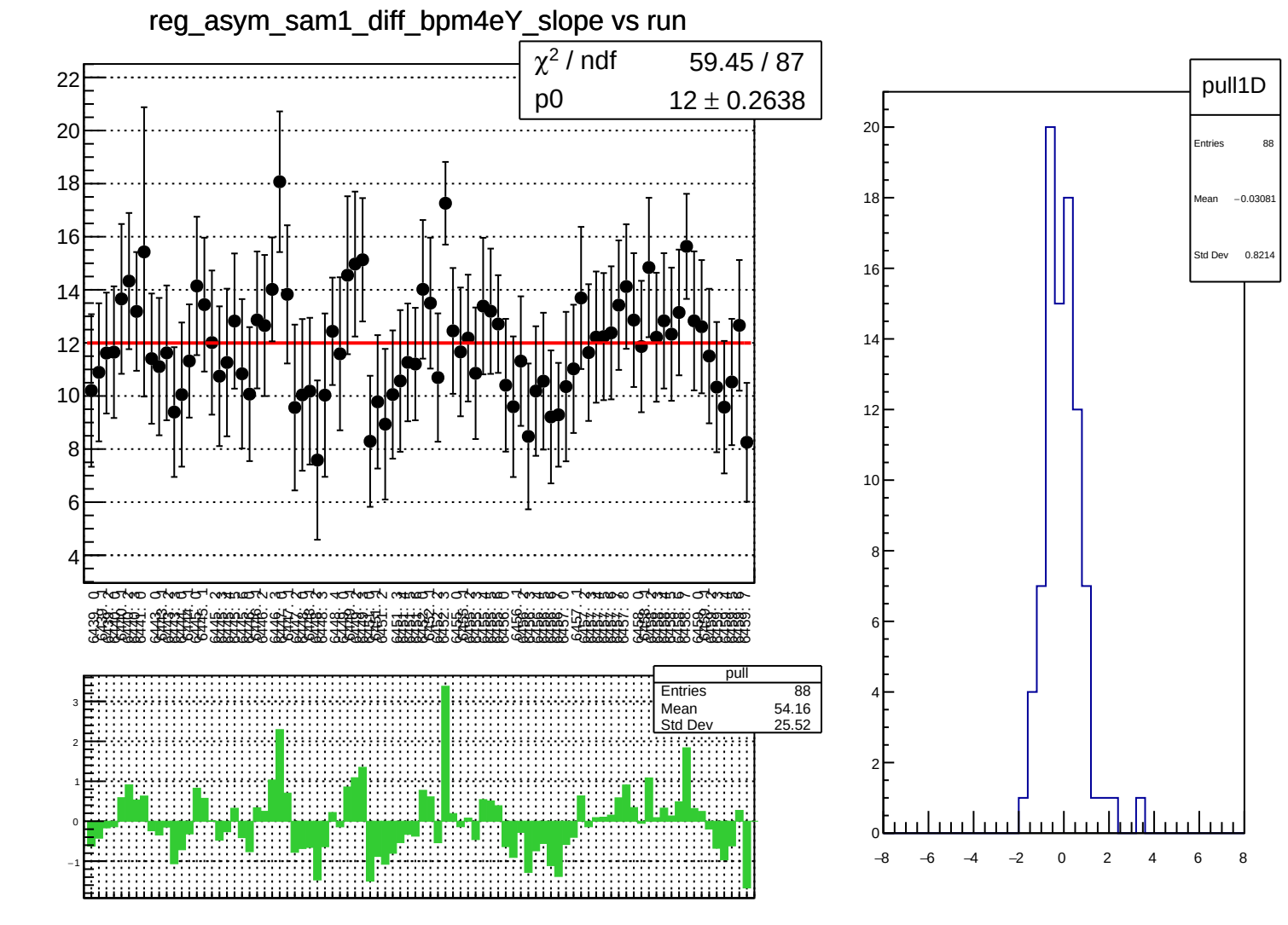

pull1D
Entries 88
Mean 0.02978
Std Dev 0.8897
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

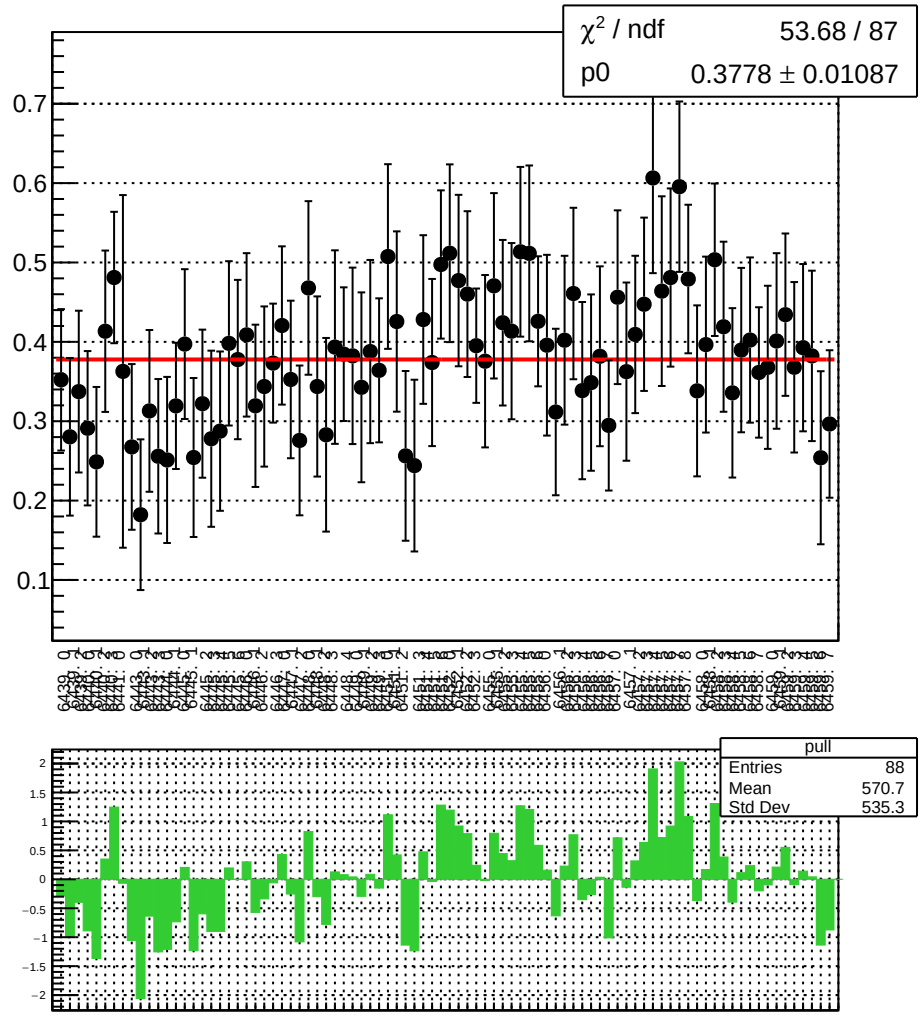

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 36.75 / 87
p0 −54.91 ± 0.263
pull
Entries 88
Mean 2132
Std Dev 2066

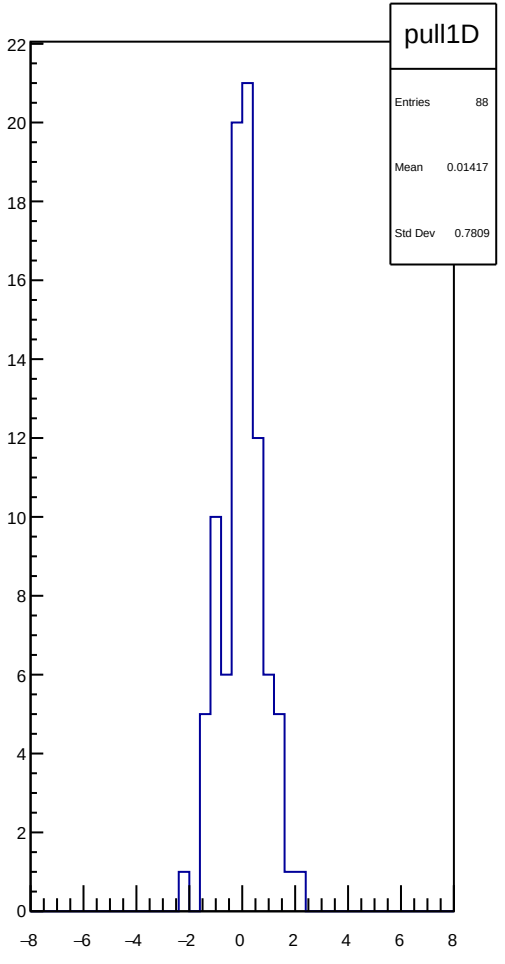

pull1D
Entries 88
Mean −0.0003668
Std Dev 0.6463

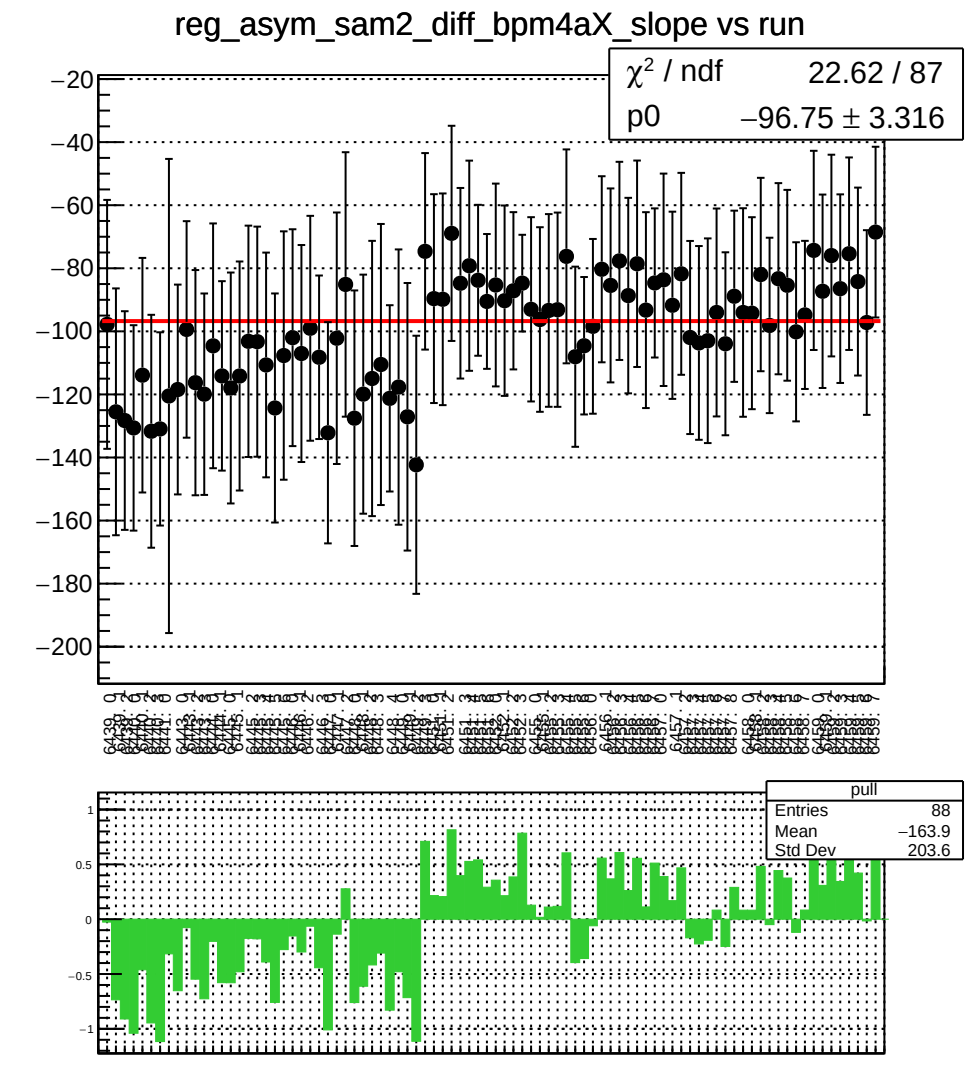

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 69.09 / 87
p0 4.562 ± 0.4026
pull
Entries 88
Mean 152.3
Std Dev 98.6

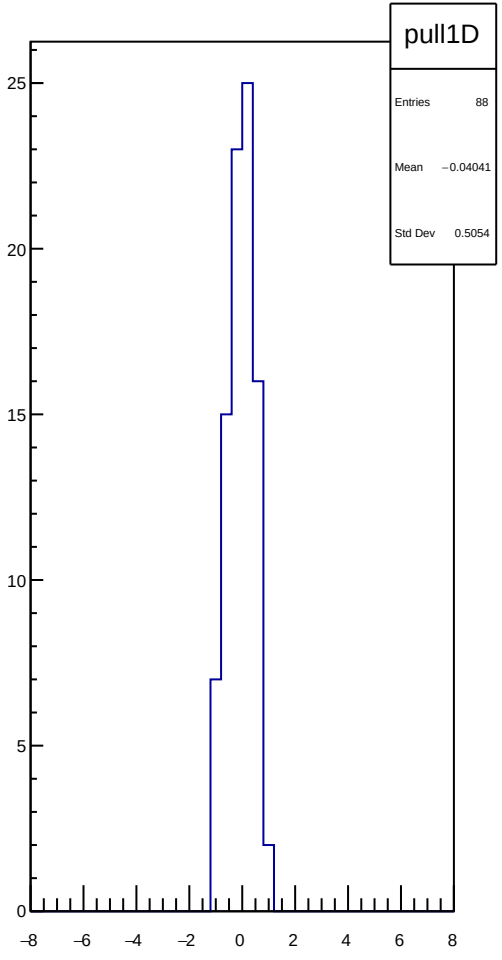

pull1D
Entries 88
Mean −0.01986
Std Dev 0.8858

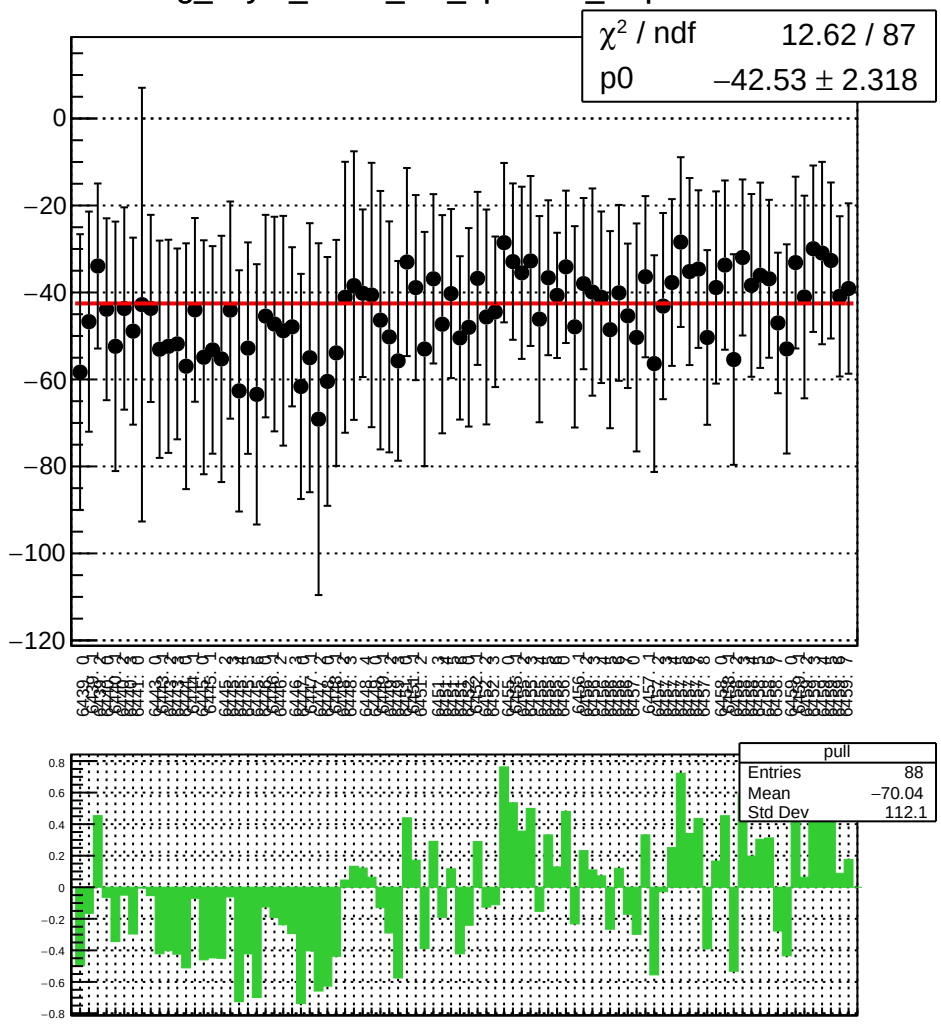

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 59.45 / 87
p0 12 ± 0.2638
pull
Entries 88
Mean 54.16
Std Dev 25.52
pull1D
Entries 88
Mean −0.03081
Std Dev 0.8214

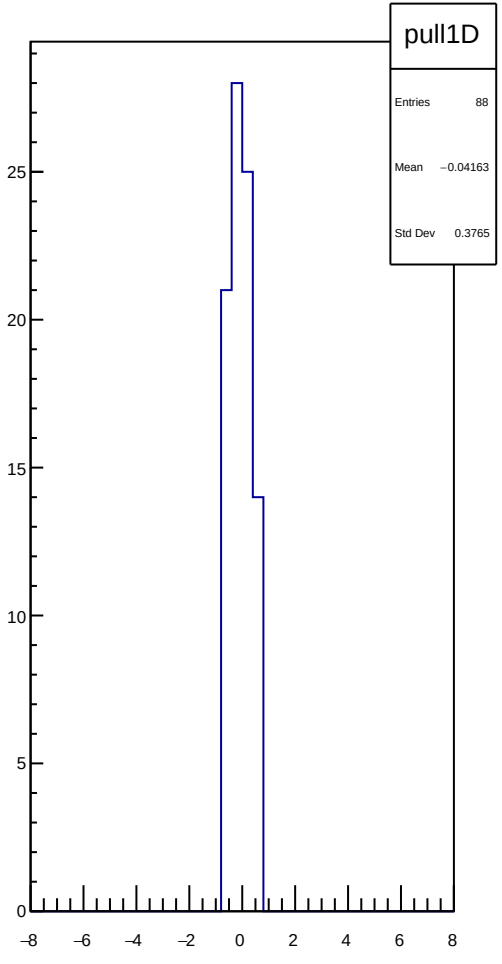

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 53.68 / 87
p0 0.3778 ± 0.01087
pull
Entries 88
Mean 570.7
Std Dev 535.3

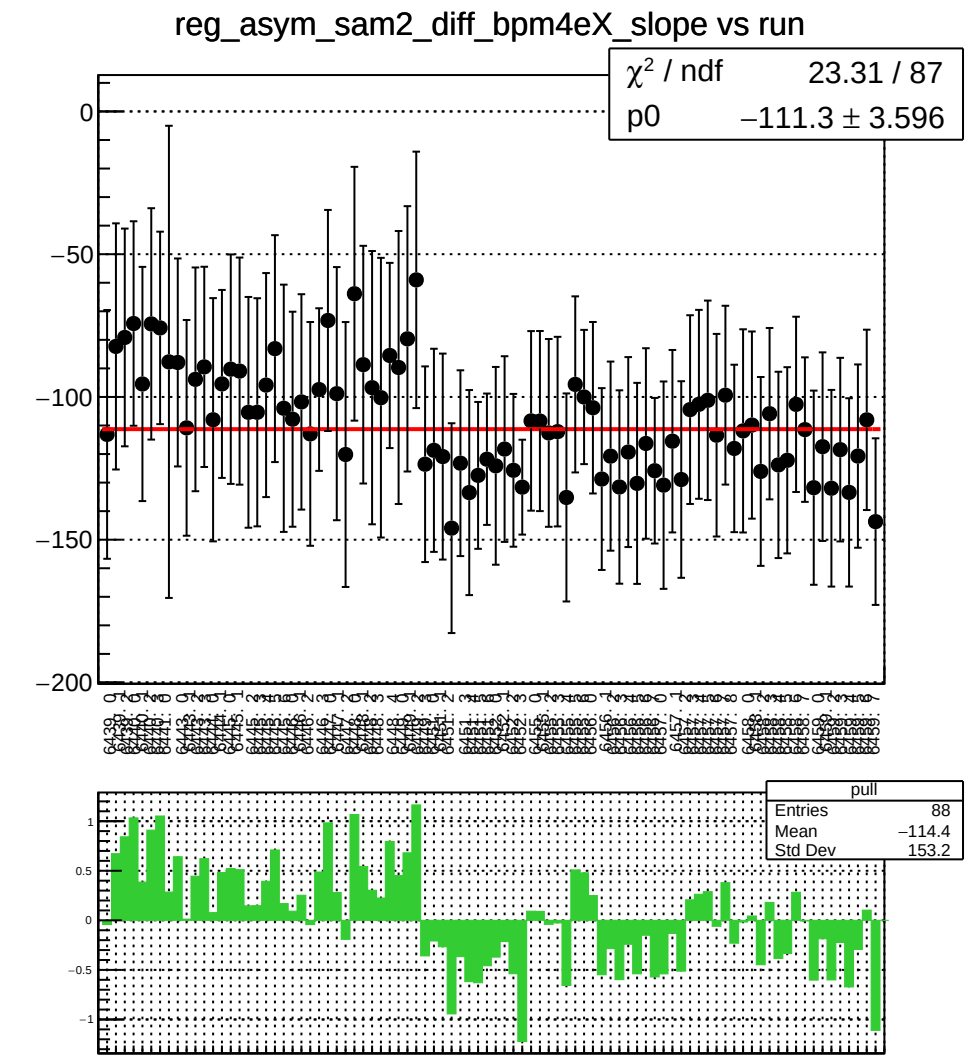

pull1D
Entries 88
Mean 0.01417
Std Dev 0.7809

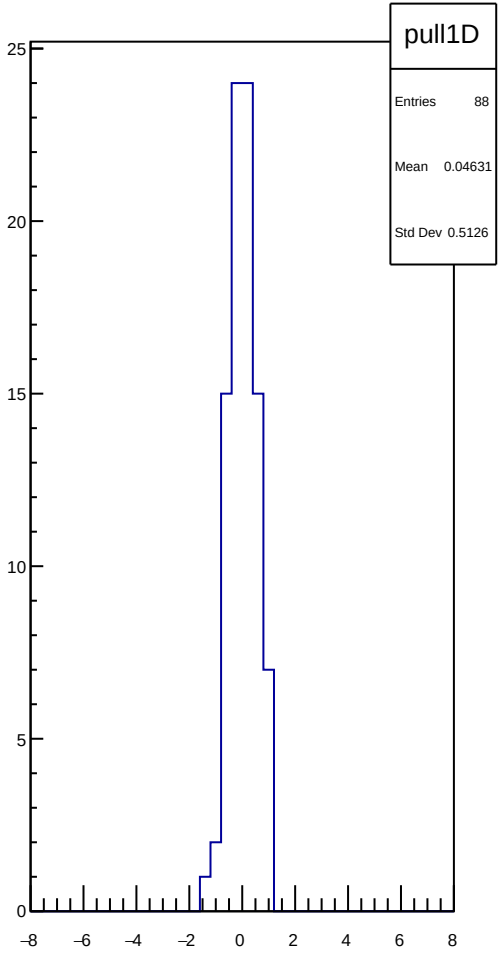

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 22.62 / 87
p0 −96.75 ± 3.316
pull
Entries 88
Mean −163.9
Std Dev 203.6

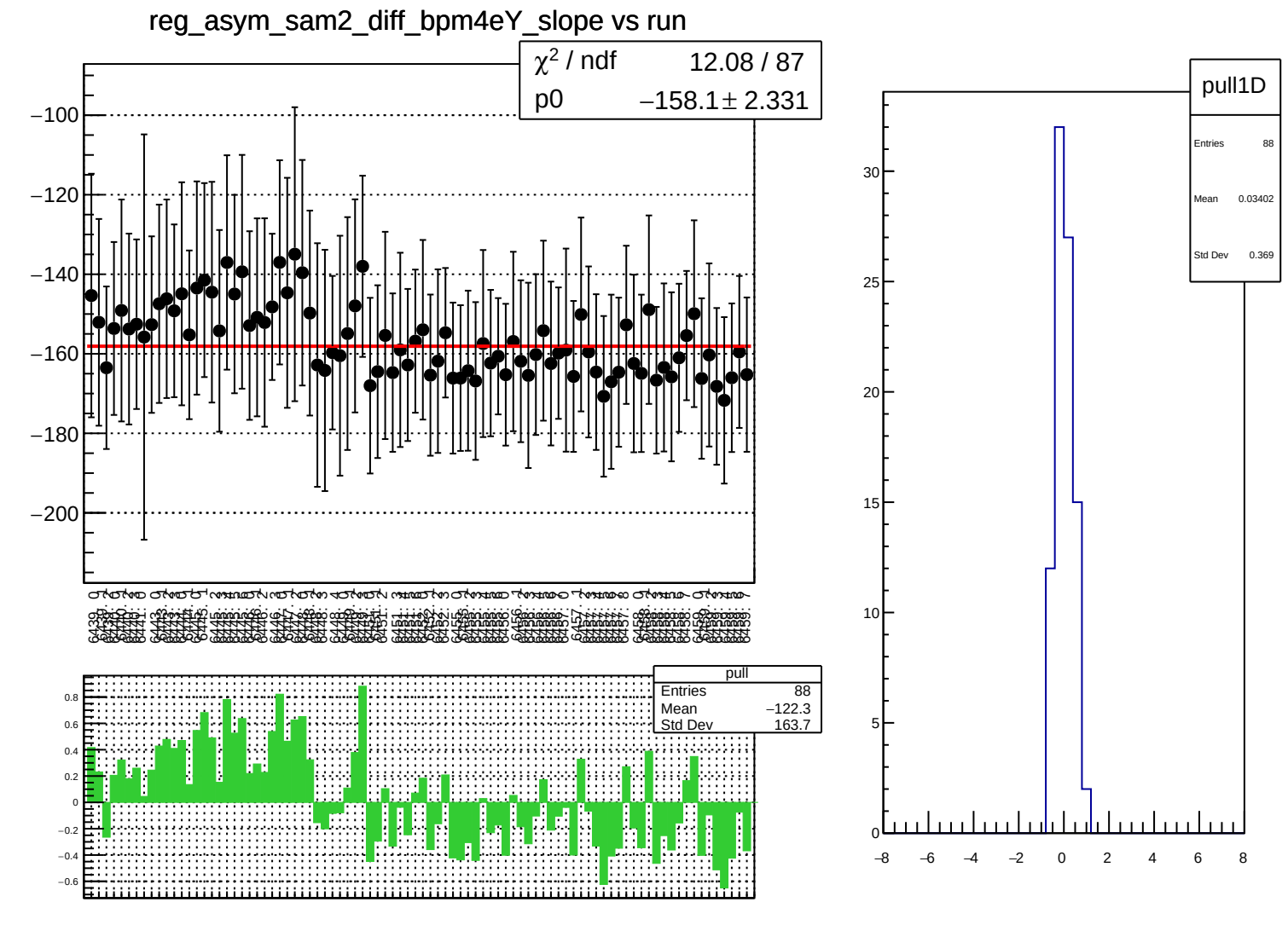

pull1D
Entries 88
Mean −0.04041
Std Dev 0.5054

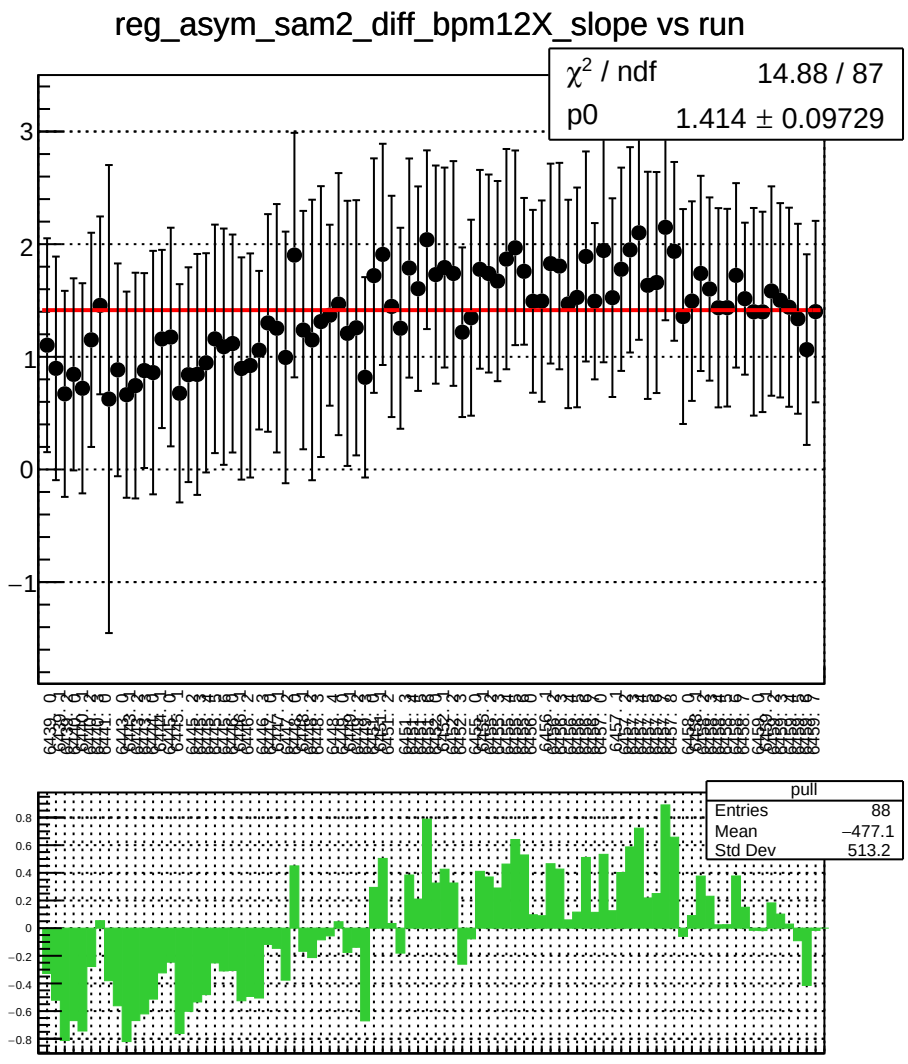

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 12.62 / 87
p0 −42.53 ± 2.318
pull
Entries 88
Mean −70.04
Std Dev 112.1

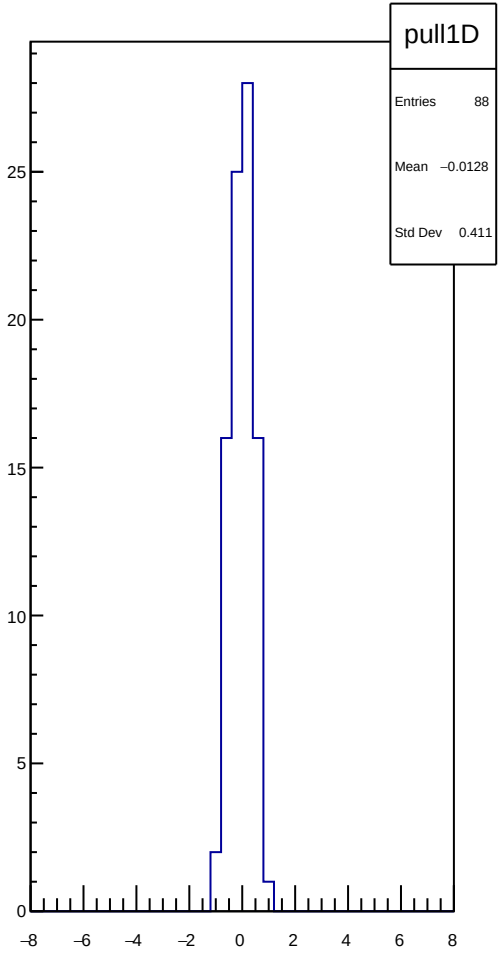

pull1D
Entries 88
Mean −0.04163
Std Dev 0.3765

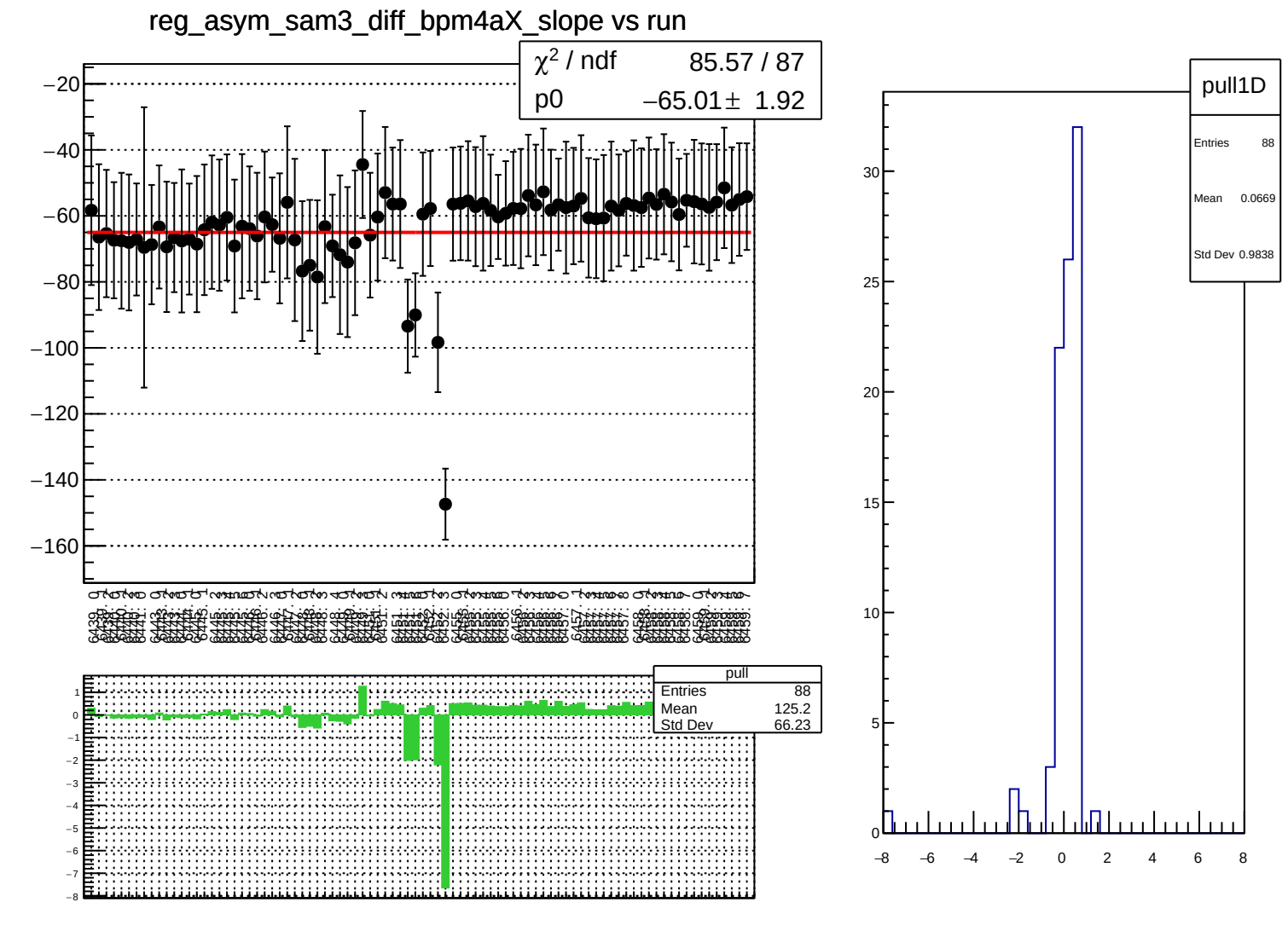

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 23.31 / 87
p0 −111.3 ± 3.596
pull
Entries 88
Mean −114.4
Std Dev 153.2

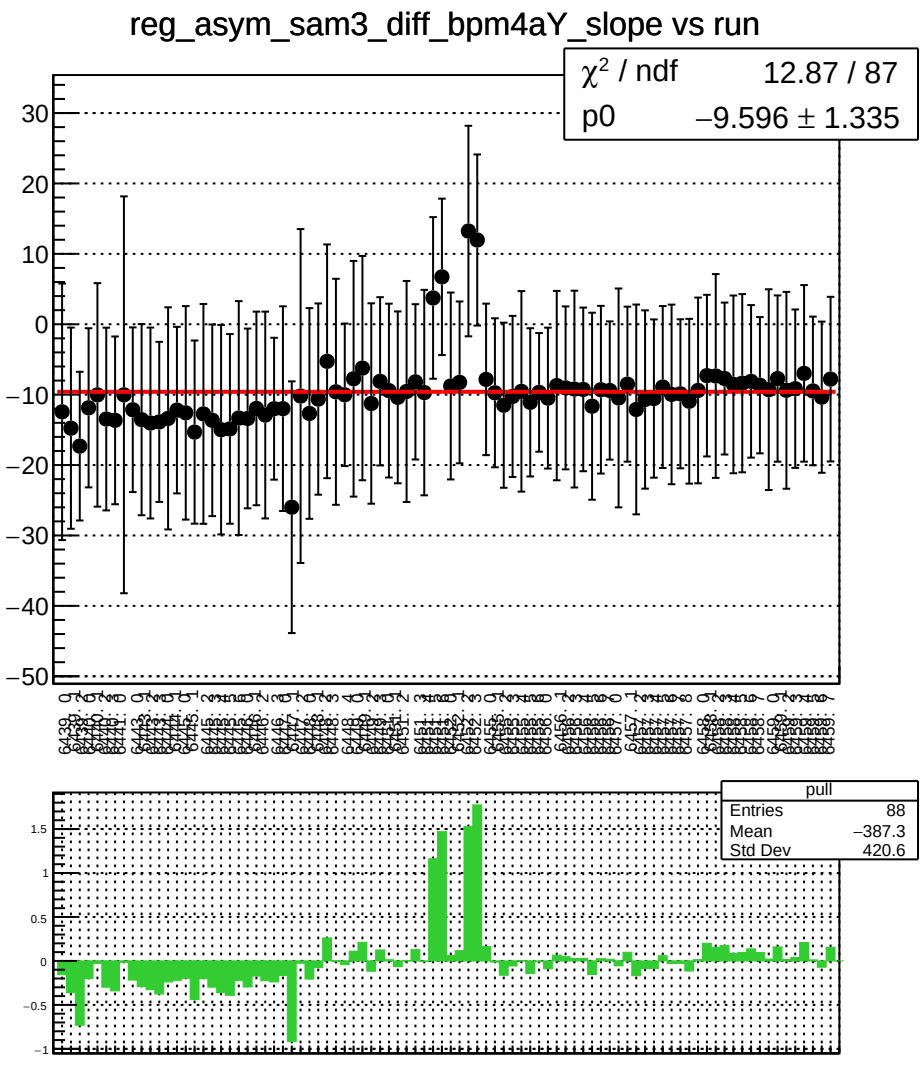

pull1D
Entries 88
Mean 0.04631
Std Dev 0.5126

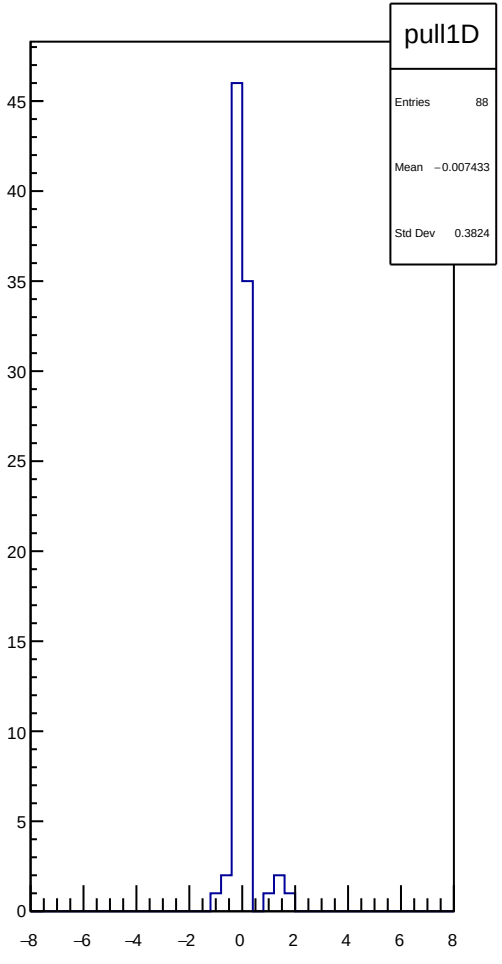

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 12.08 / 87
p0 −158.1 ± 2.331
−100
−120
−140
−160
−180
−200
pull
Entries 88
Mean −122.3
Std Dev 163.7
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.03402
Std Dev 0.369
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

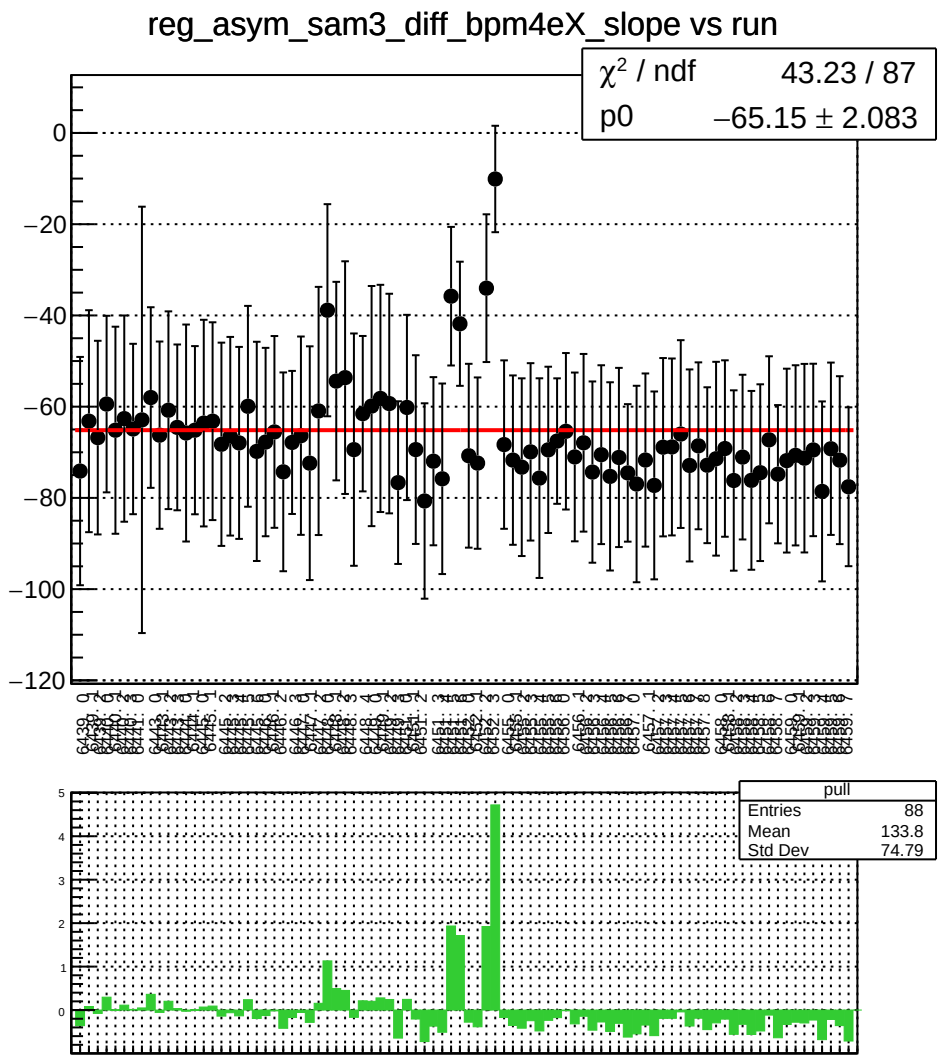

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 14.88 / 87
p0 1.414 ± 0.09729
pull
Entries 88
Mean −477.1
Std Dev 513.2

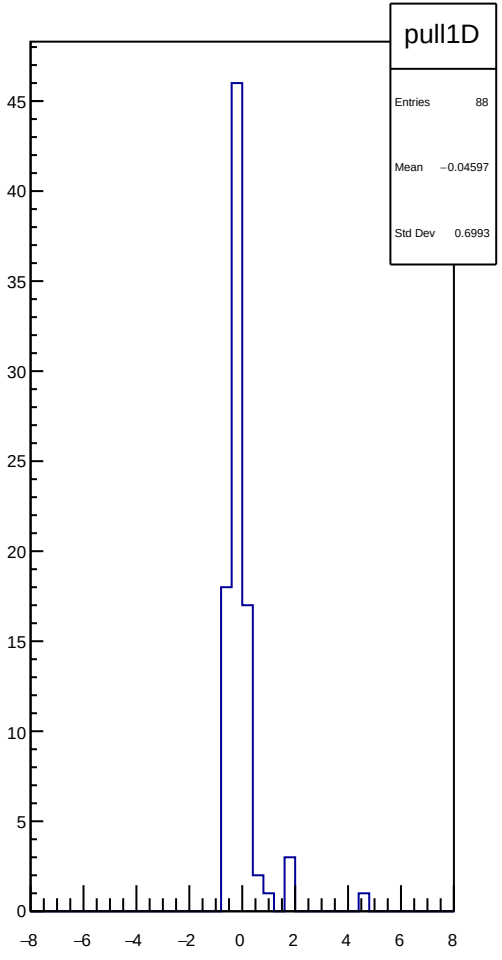

pull1D
Entries 88
Mean −0.0128
Std Dev 0.411

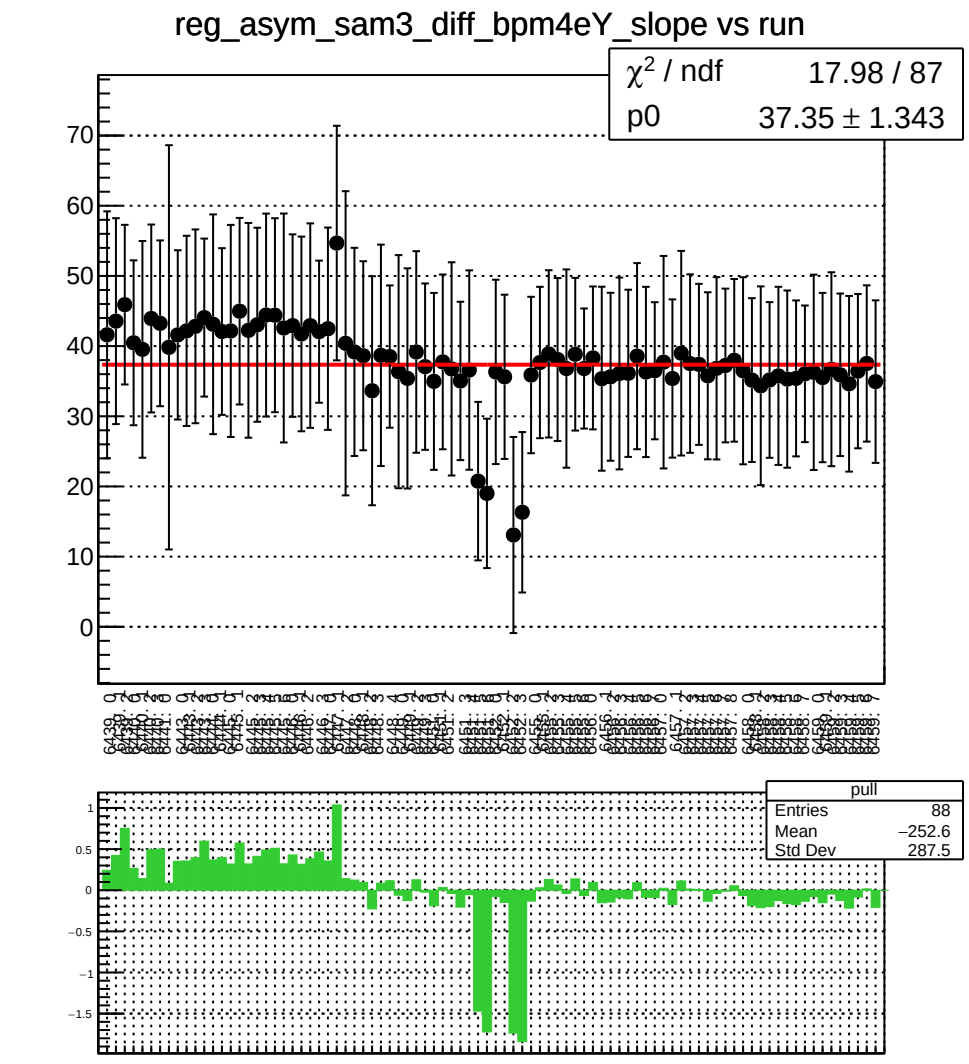

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 85.57 / 87
p0 −65.01 ± 1.92
pull
Entries 88
Mean 125.2
Std Dev 66.23
pull1D
Entries 88
Mean 0.0669
Std Dev 0.9838

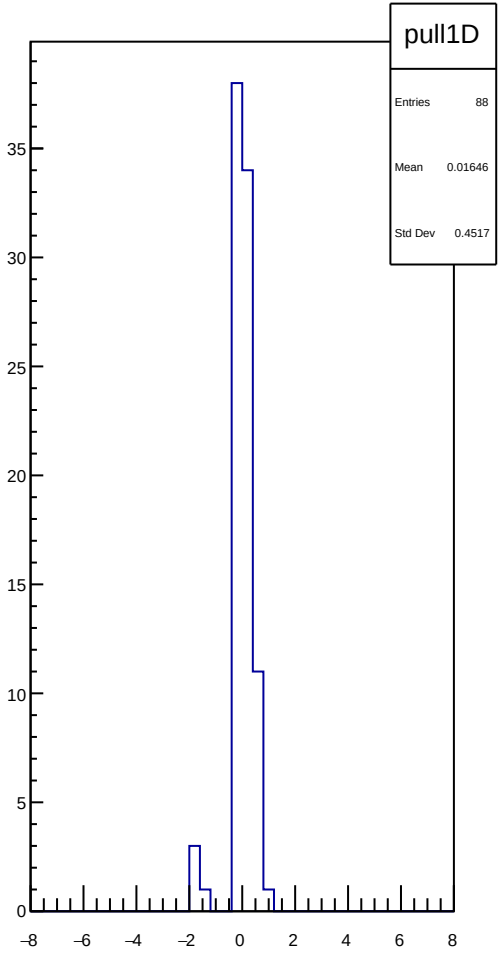

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 12.87 / 87
p0 −9.596 ± 1.335
pull
Entries 88
Mean −387.3
Std Dev 420.6

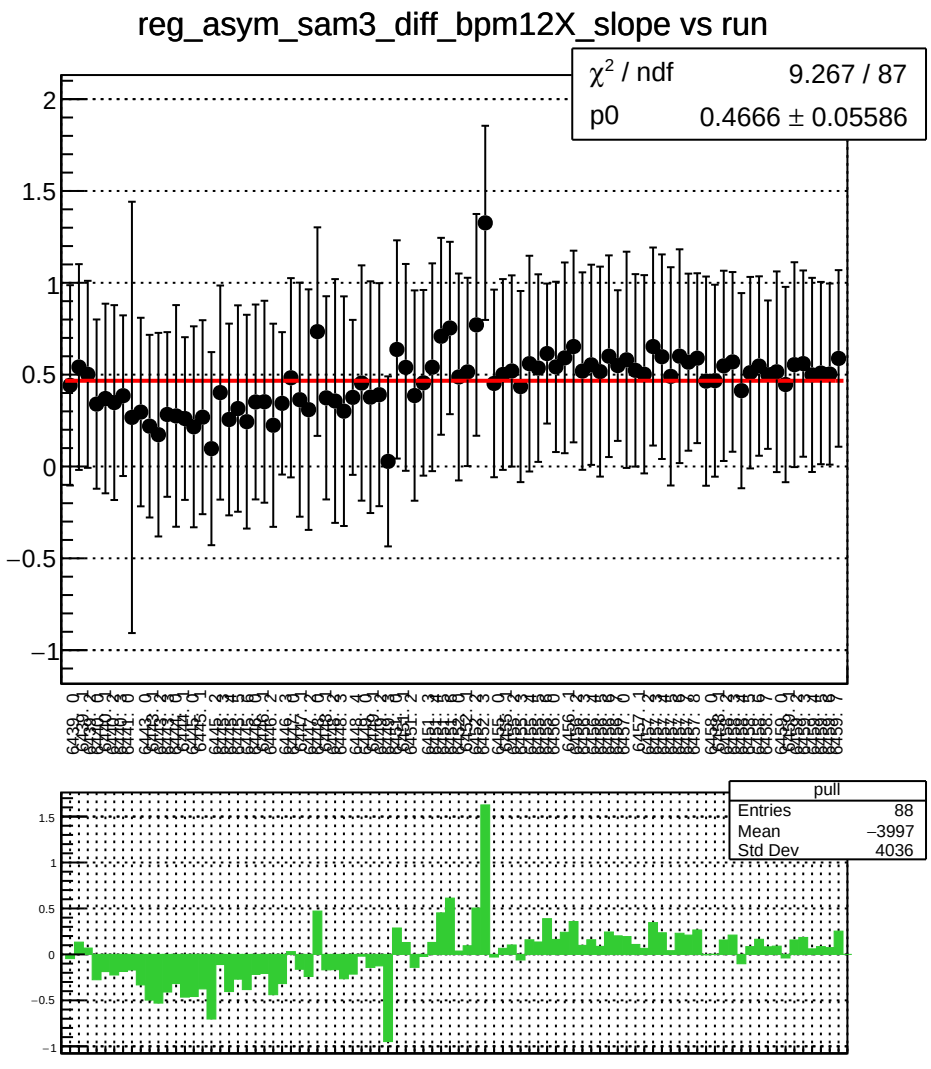

pull1D
Entries 88
Mean −0.007433
Std Dev 0.3824

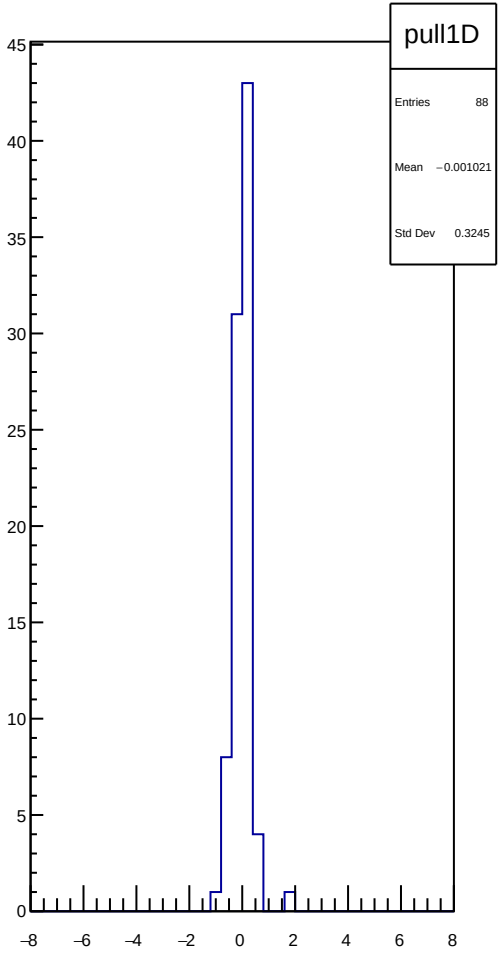

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 43.23 / 87
p0 −65.15 ± 2.083
pull
Entries 88
Mean 133.8
Std Dev 74.79

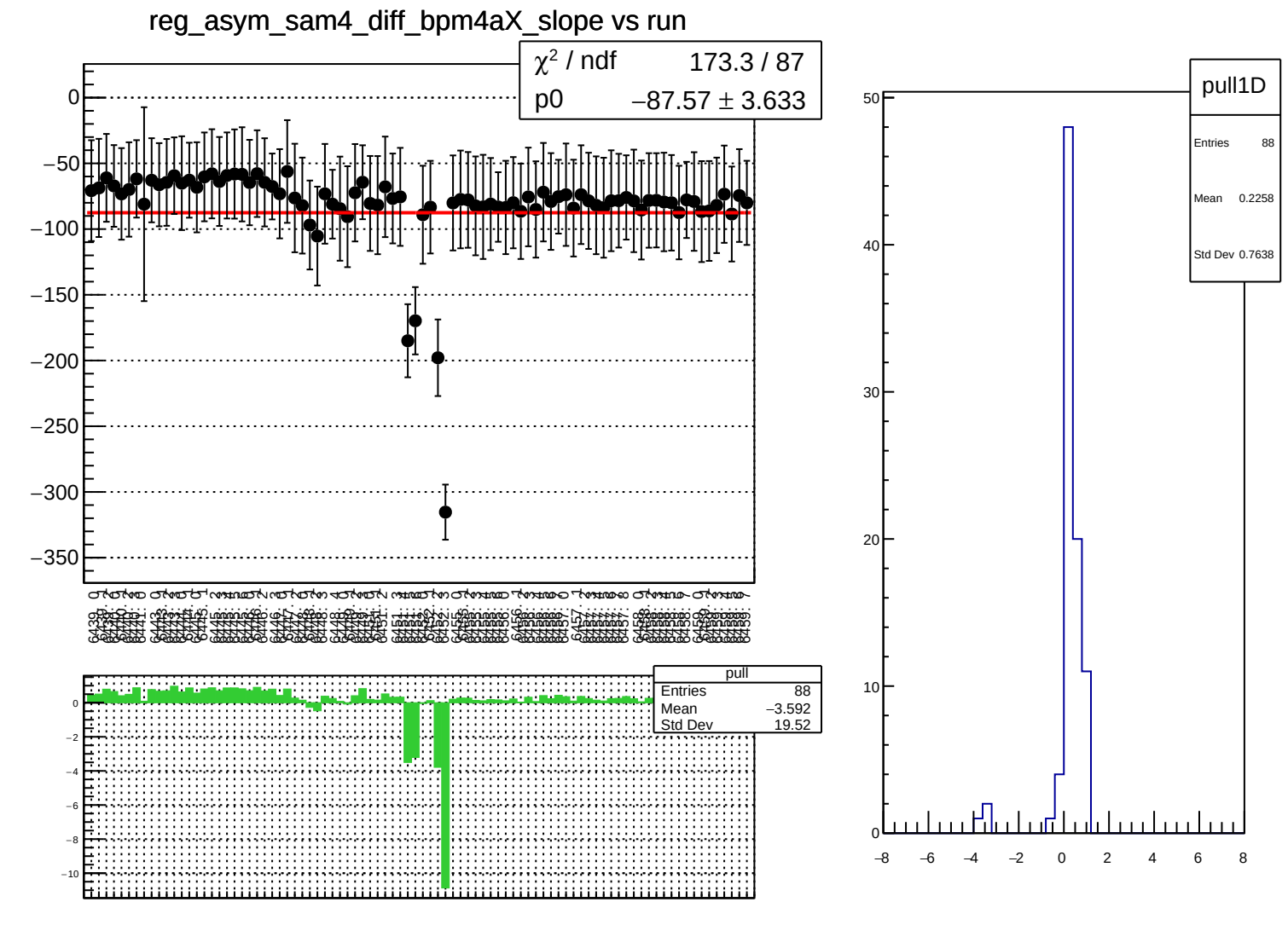

pull1D
Entries 88
Mean −0.04597
Std Dev 0.6993

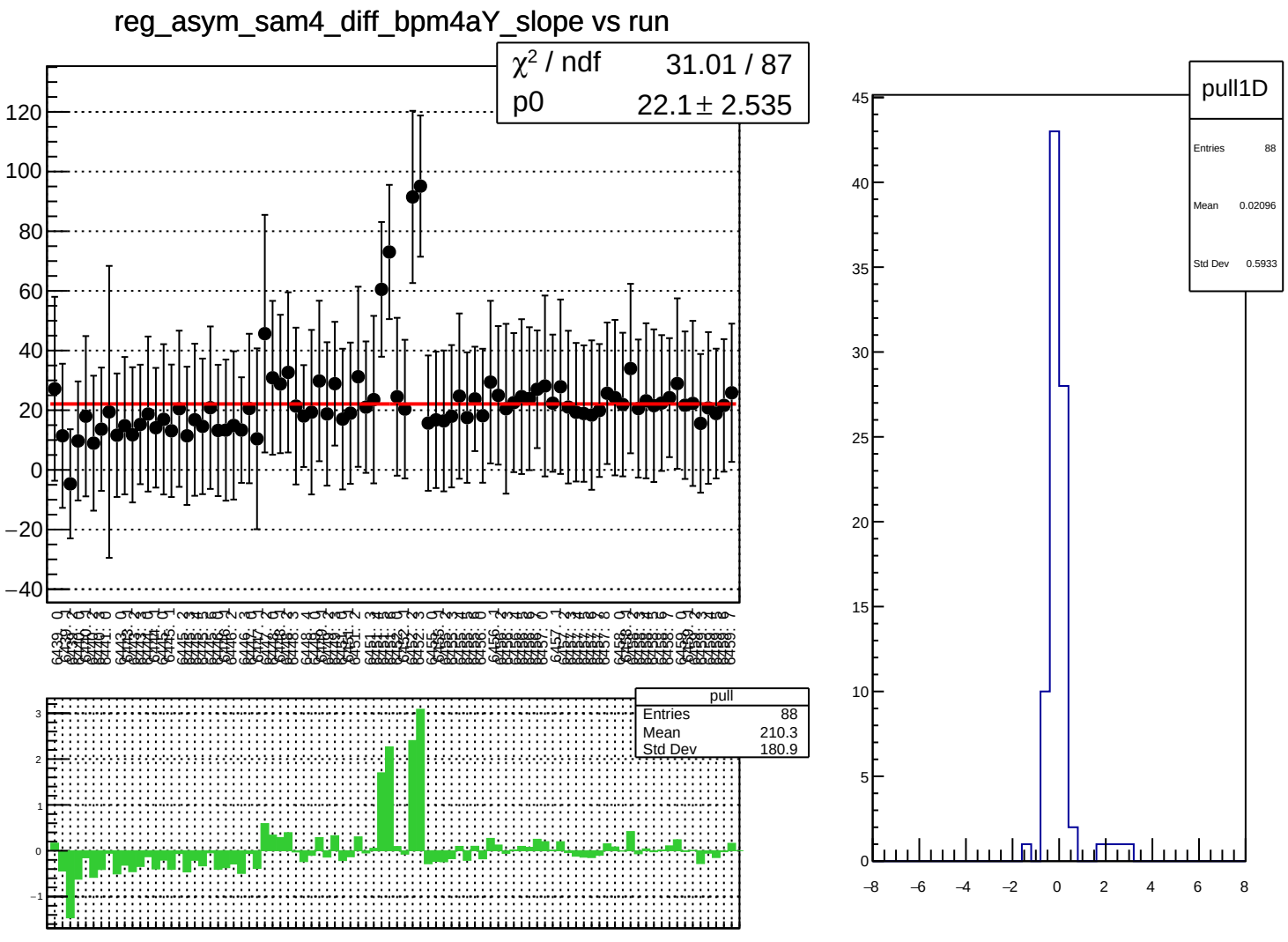

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 17.98 / 87
p0 37.35 ± 1.343
pull
Entries 88
Mean −252.6
Std Dev 287.5

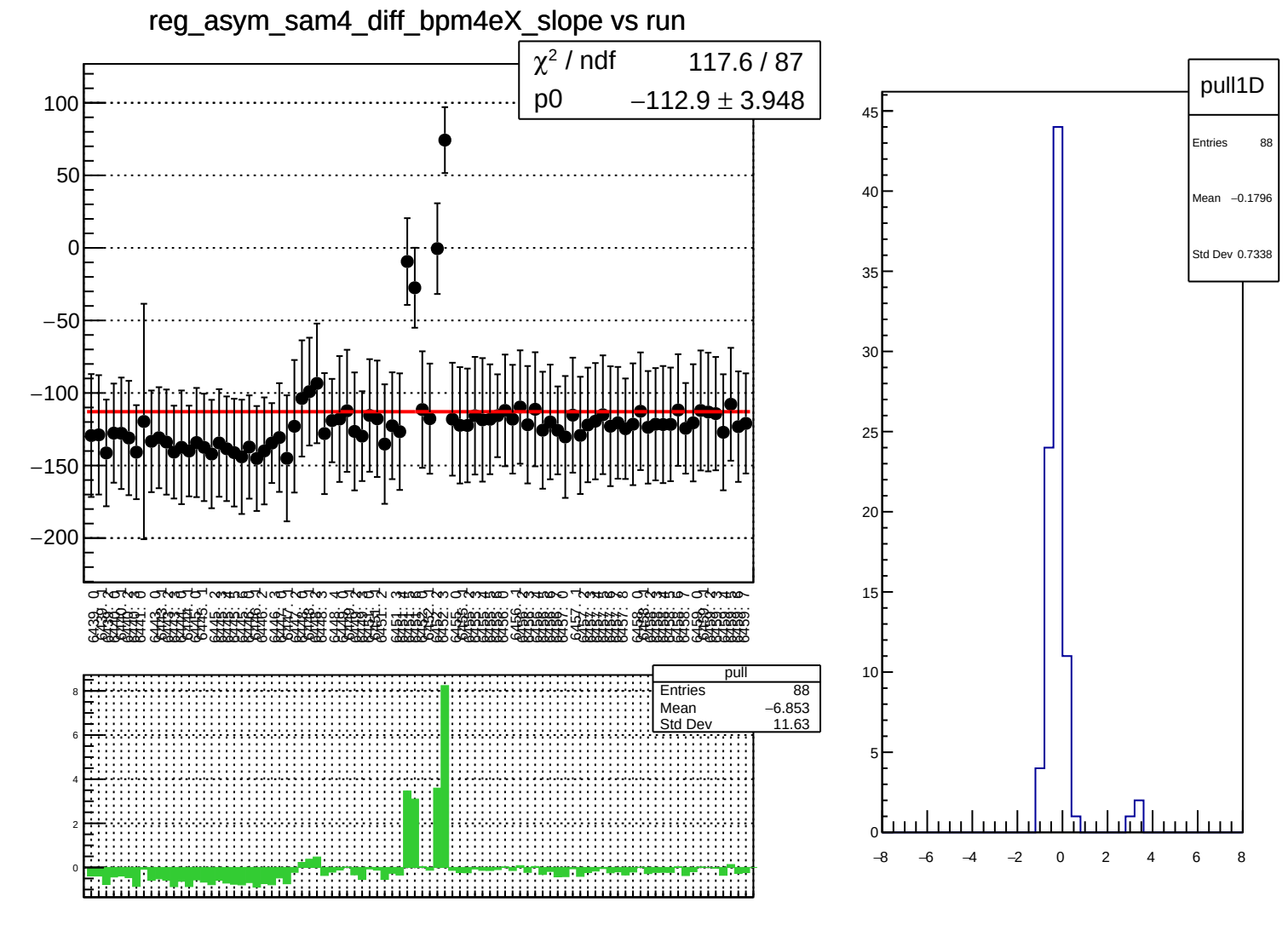

pull1D
Entries 88
Mean 0.01646
Std Dev 0.4517

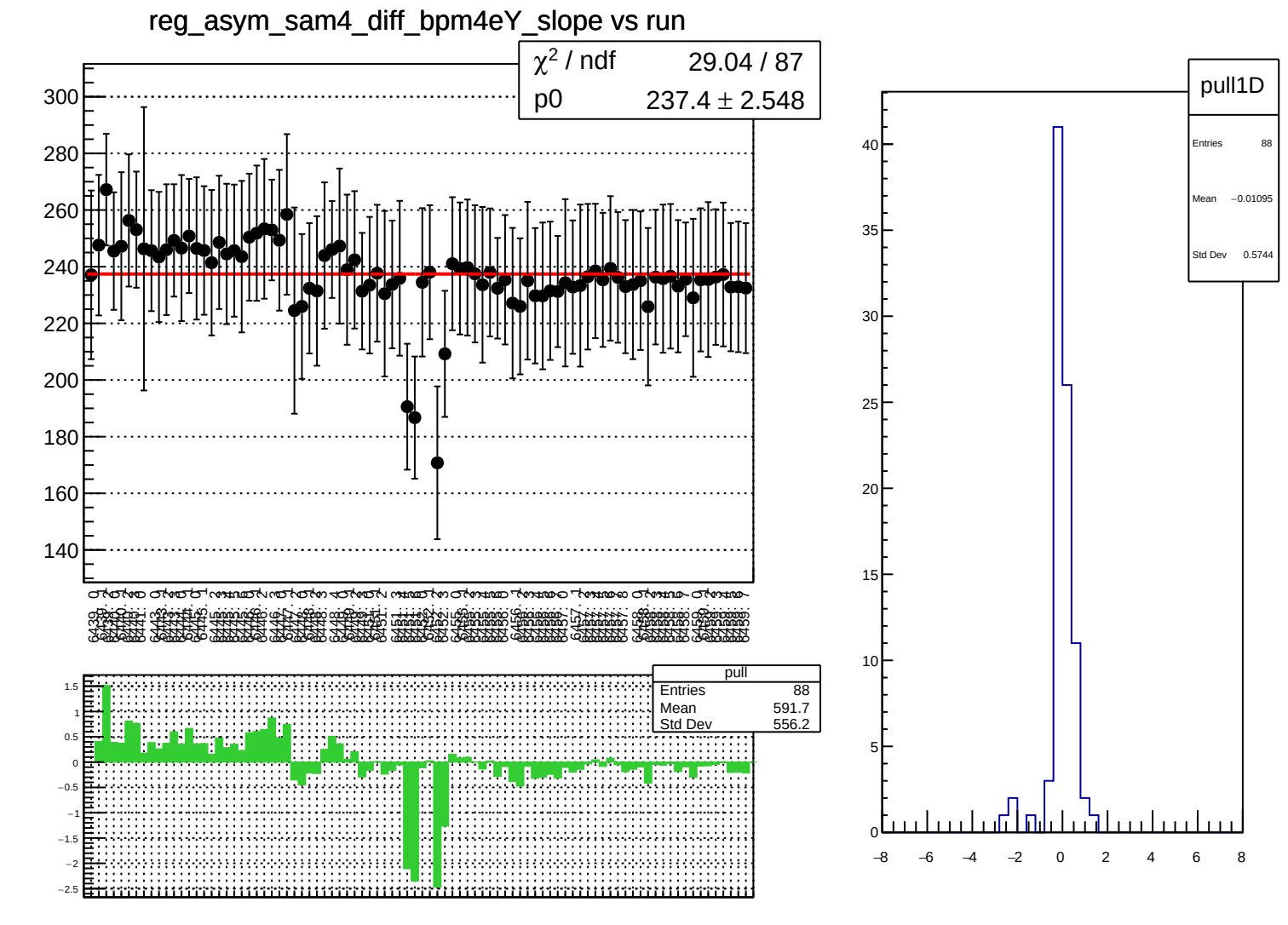

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 9.267 / 87
p0 0.4666 ± 0.05586
pull
Entries 88
Mean −3997
Std Dev 4036

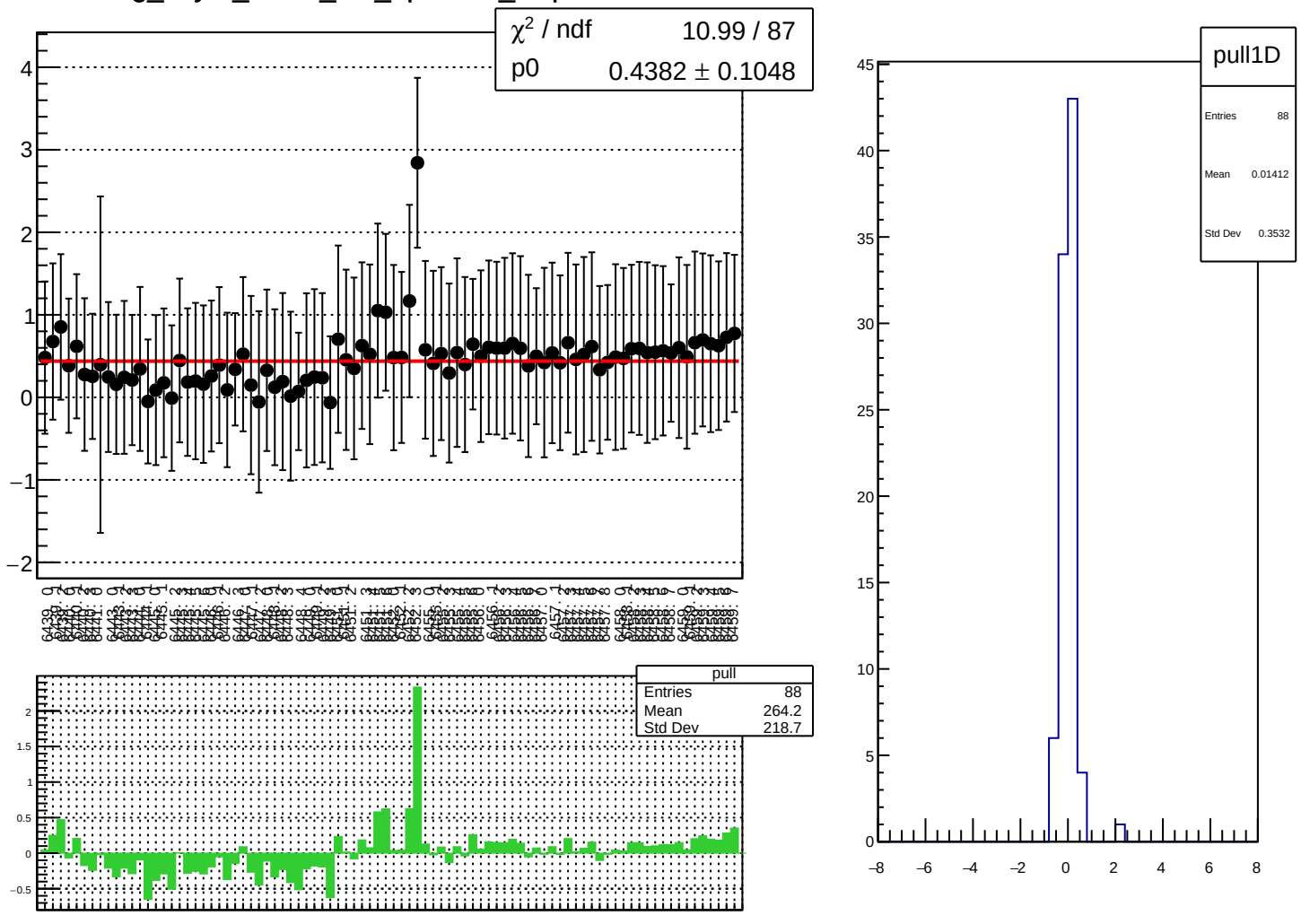

pull1D
Entries 88
Mean −0.001021
Std Dev 0.3245

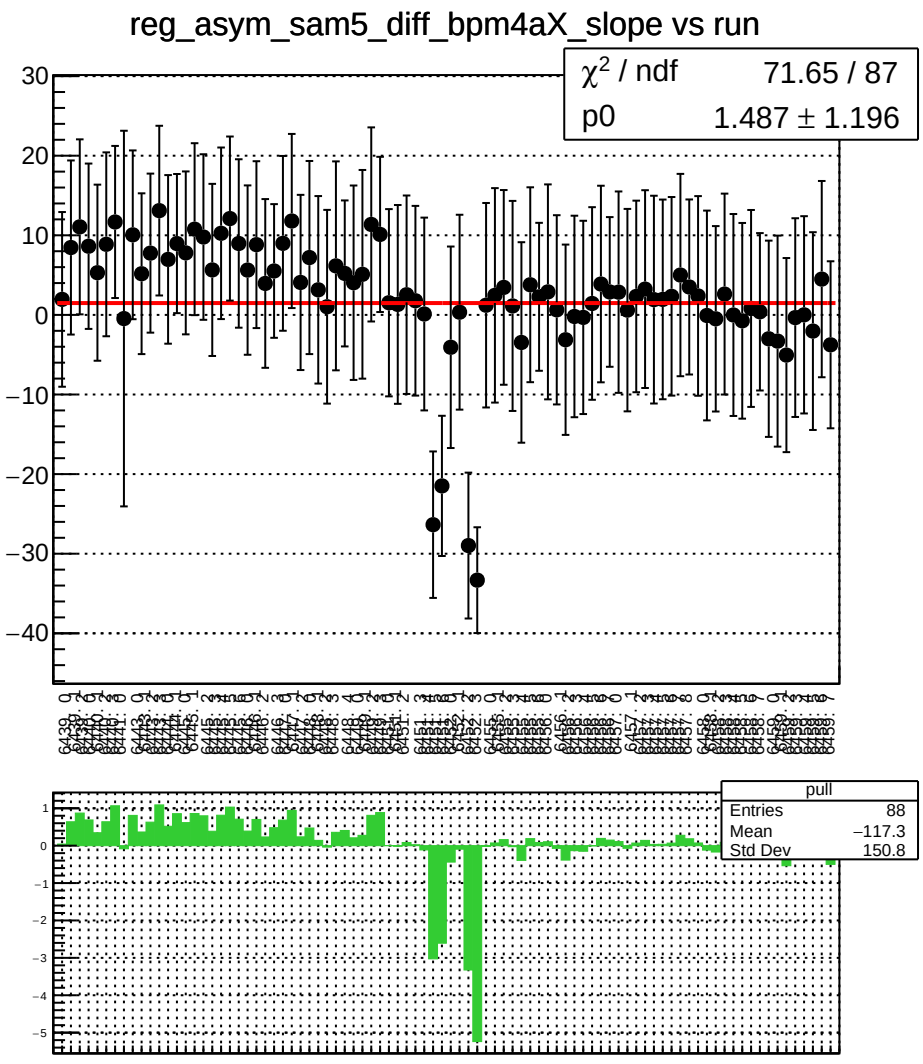

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 173.3 / 87
p0 −87.57 ± 3.633
pull
Entries 88
Mean −3.592
Std Dev 19.52
pull1D
Entries 88
Mean 0.2258
Std Dev 0.7638

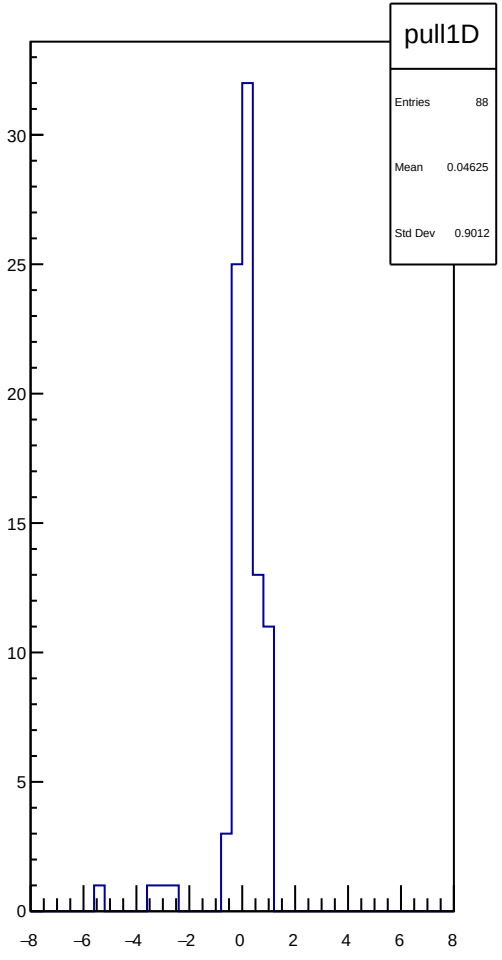

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 31.01 / 87
p0 22.1 ± 2.535
pull
Entries 88
Mean 210.3
Std Dev 180.9
pull1D
Entries 88
Mean 0.02096
Std Dev 0.5933

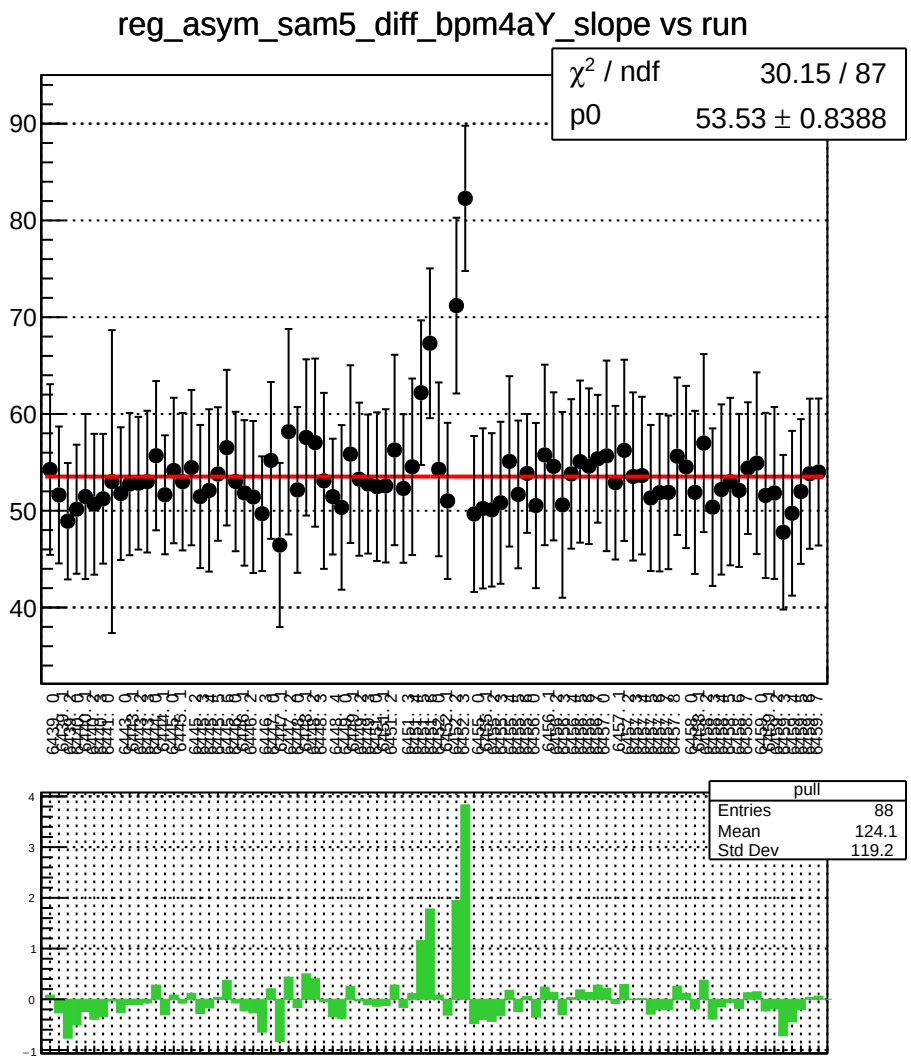

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 117.6 / 87
p0 −112.9 ± 3.948
pull
Entries 88
Mean −6.853
Std Dev 11.63
pull1D
Entries 88
Mean −0.1796
Std Dev 0.7338

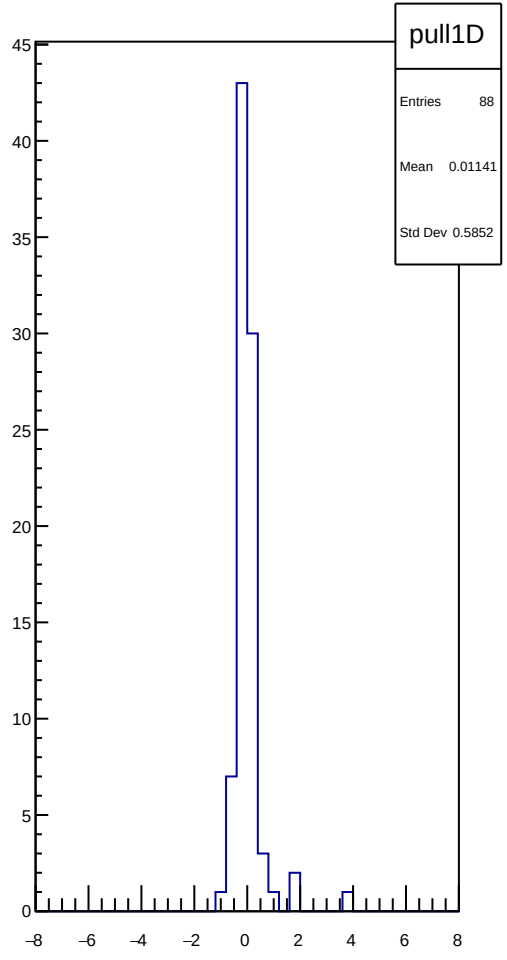

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 29.04 / 87
p0 237.4 ± 2.548
pull
Entries 88
Mean 591.7
Std Dev 556.2
pull1D
Entries 88
Mean −0.01095
Std Dev 0.5744

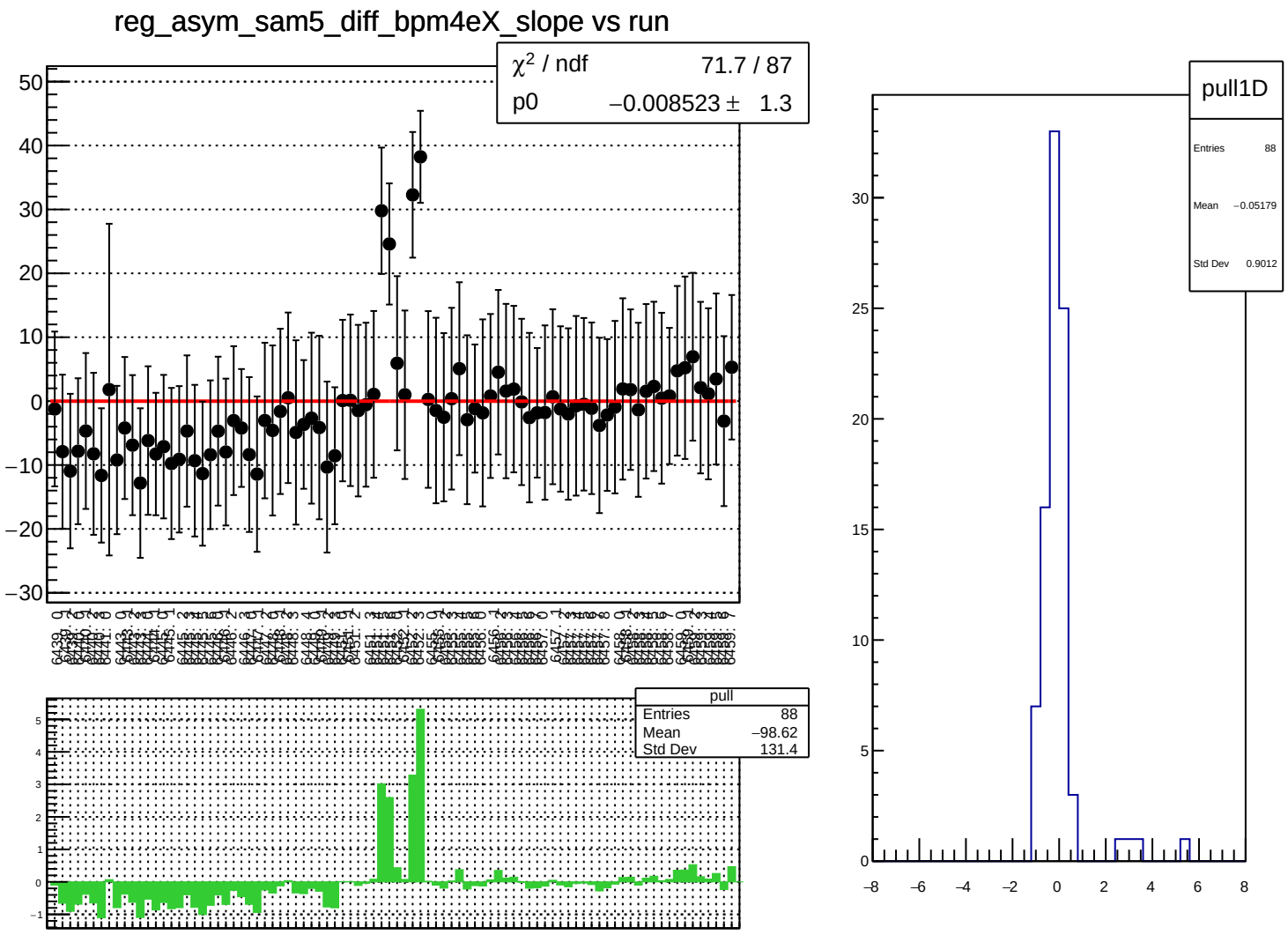

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 10.99 / 87
p0 0.4382 ± 0.1048
pull
Entries 88
Mean 264.2
Std Dev 218.7
pull1D
Entries 88
Mean 0.01412
Std Dev 0.3532

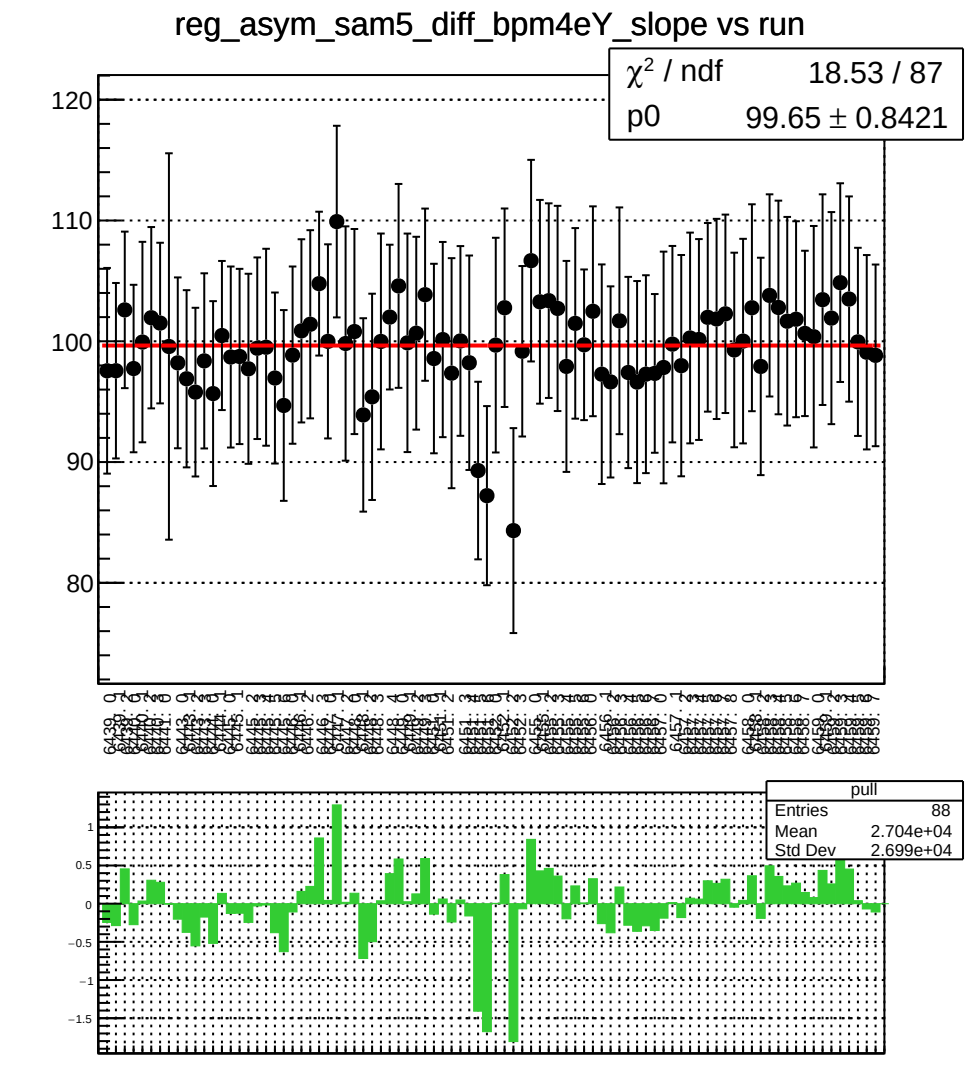

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 71.65 / 87
p0 1.487 ± 1.196
pull
Entries 88
Mean −117.3
Std Dev 150.8

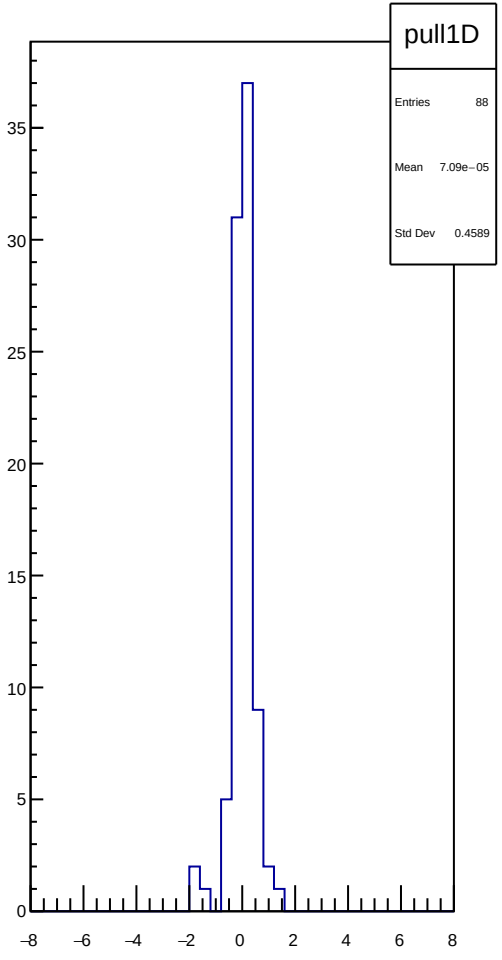

pull1D
Entries 88
Mean 0.04625
Std Dev 0.9012

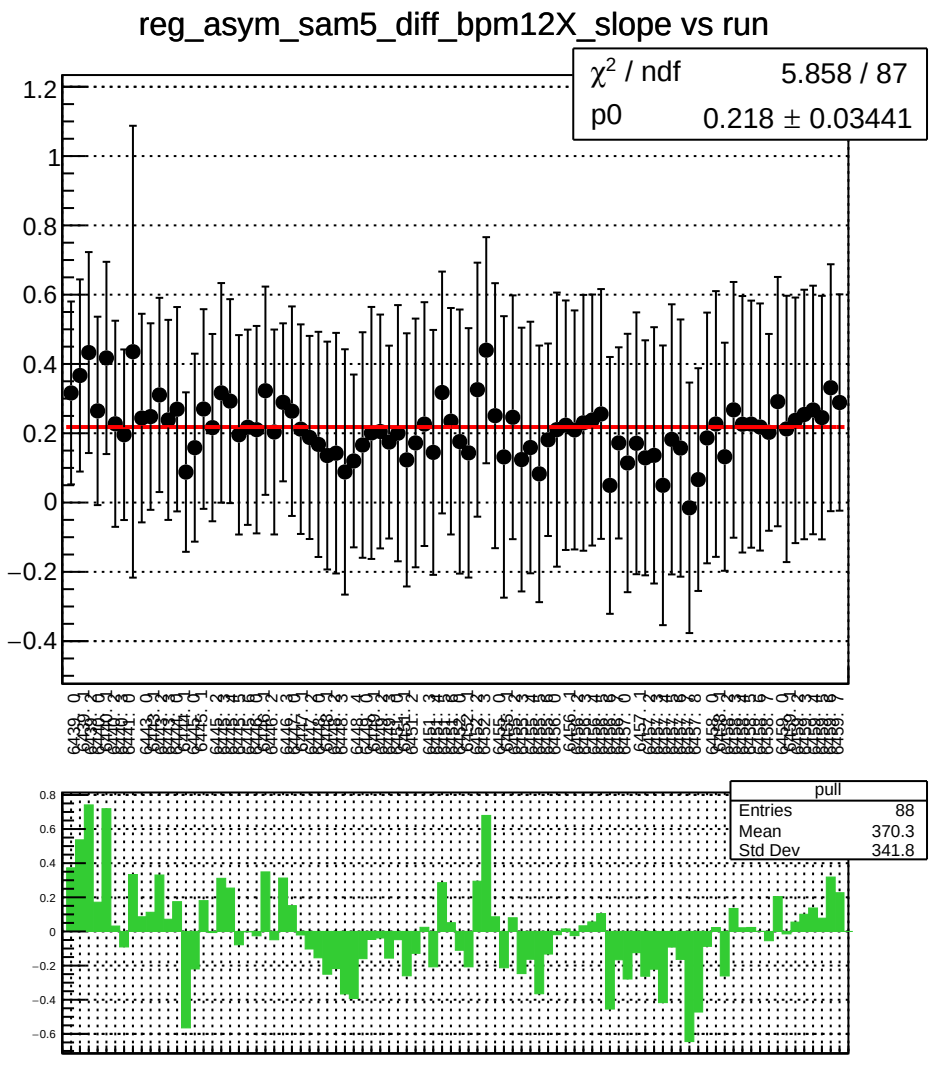

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 30.15 / 87
p0 53.53 ± 0.8388
pull
Entries 88
Mean 124.1
Std Dev 119.2

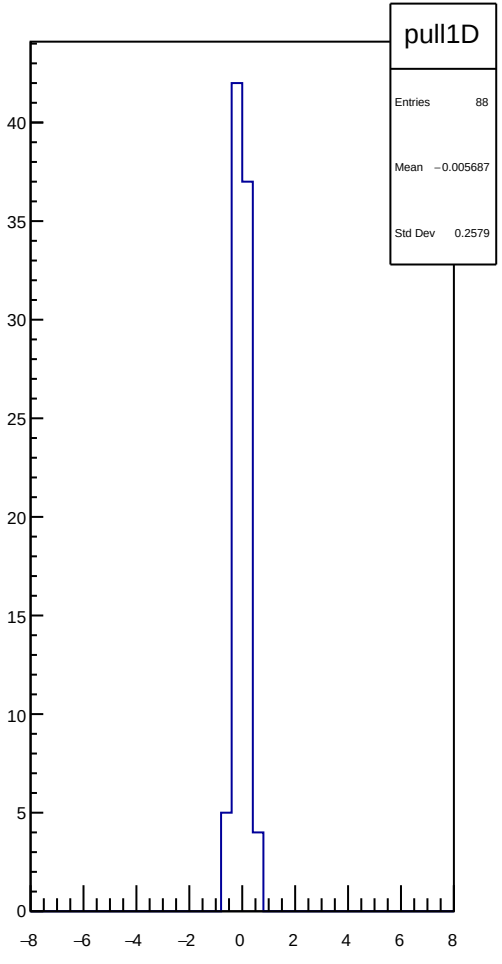

pull1D
Entries 88
Mean 0.01141
Std Dev 0.5852

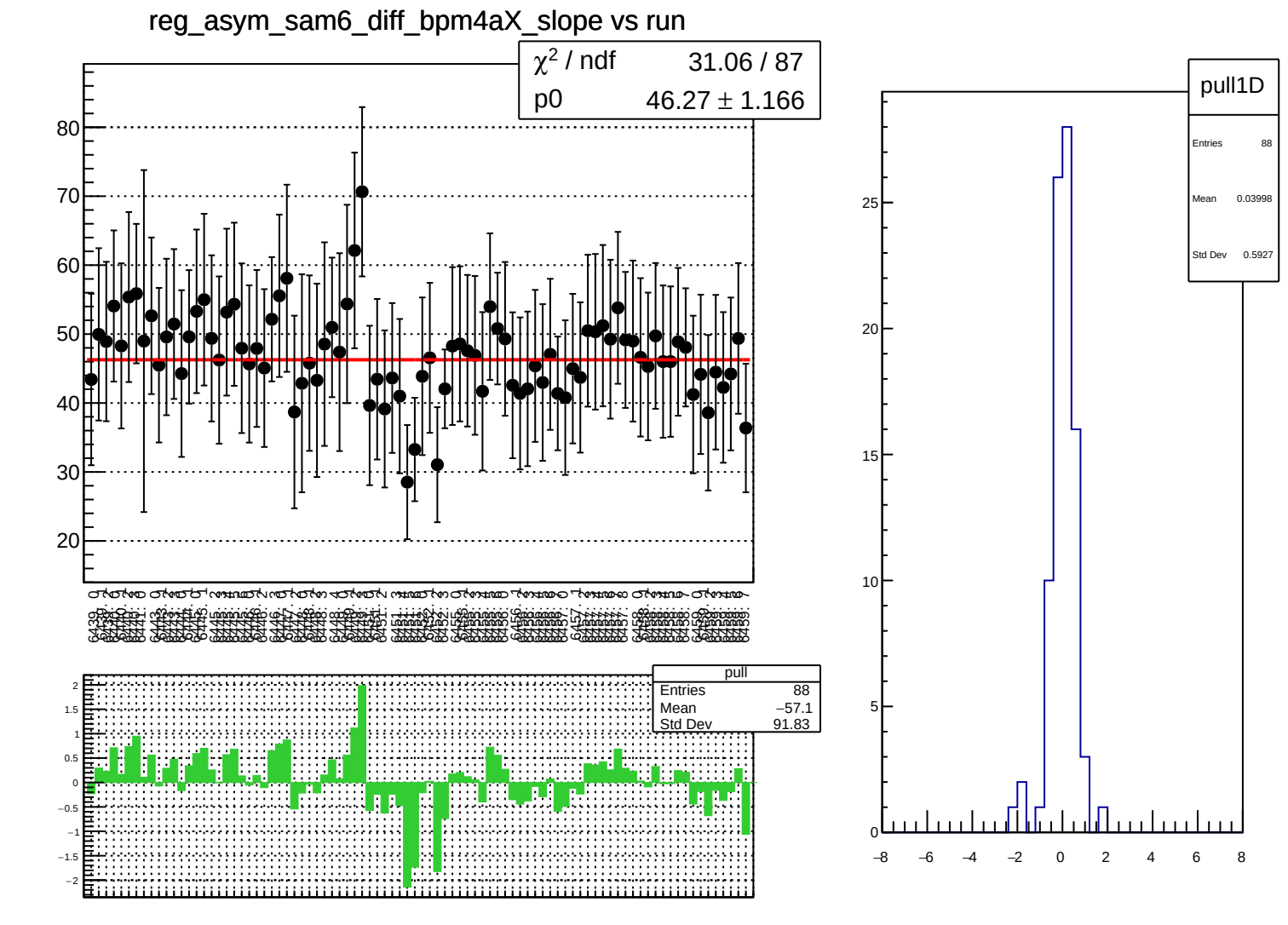

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 71.7 / 87
p0 −0.008523 ± 1.3
pull
Entries 88
Mean −98.62
Std Dev 131.4
pull1D
Entries 88
Mean −0.05179
Std Dev 0.9012

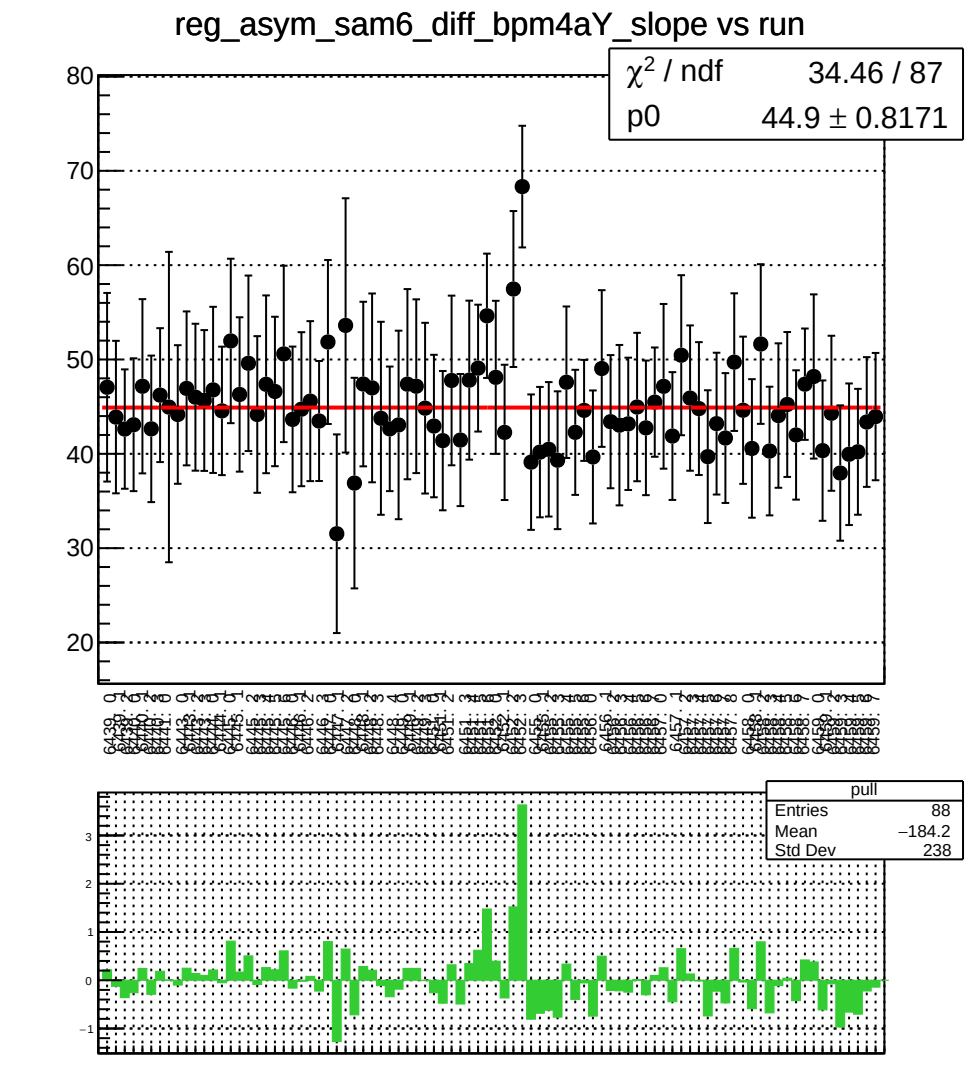

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 18.53 / 87
p0 99.65 ± 0.8421
120
110
100
90
80
pull
Entries 88
Mean 2.704e+04
Std Dev 2.699e+04
1
0.5
0
−0.5
−1
−1.5

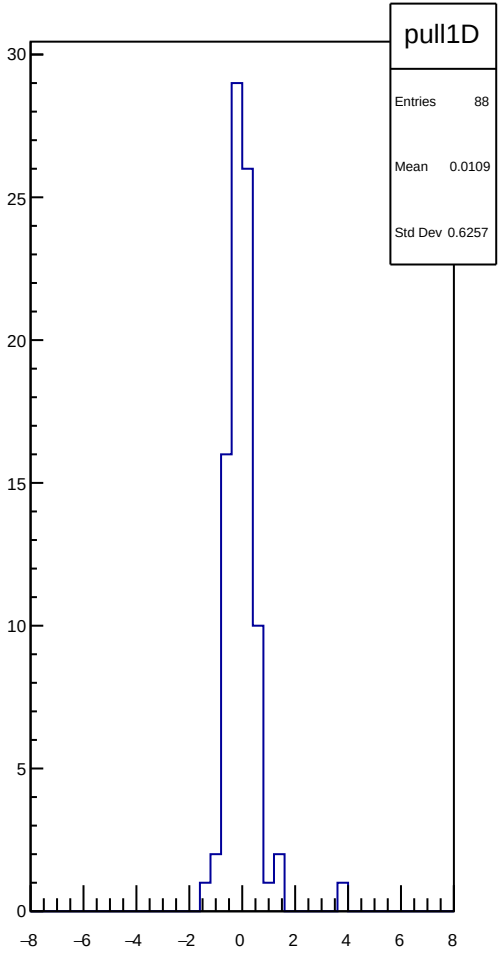

pull1D
Entries 88
Mean 7.09e−05
Std Dev 0.4589
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

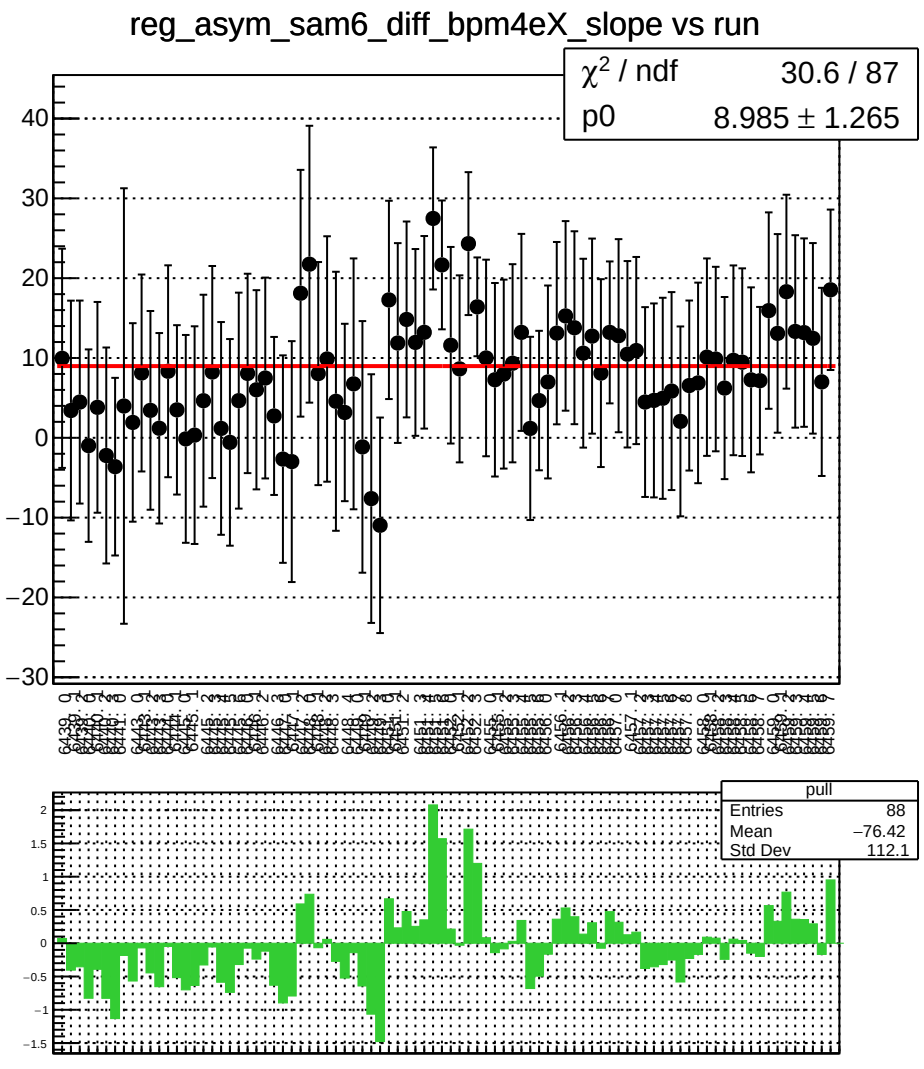

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 5.858 / 87
p0 0.218 ± 0.03441
pull
Entries 88
Mean 370.3
Std Dev 341.8

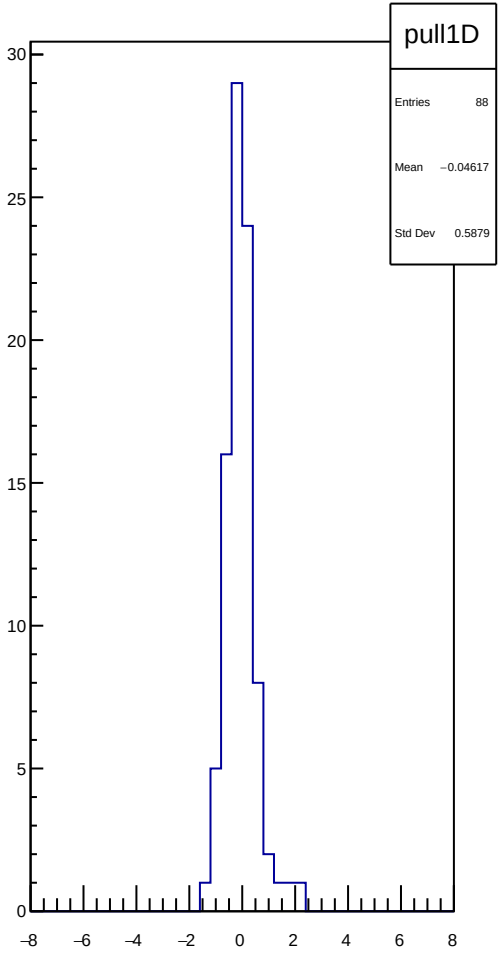

pull1D
Entries 88
Mean −0.005687
Std Dev 0.2579

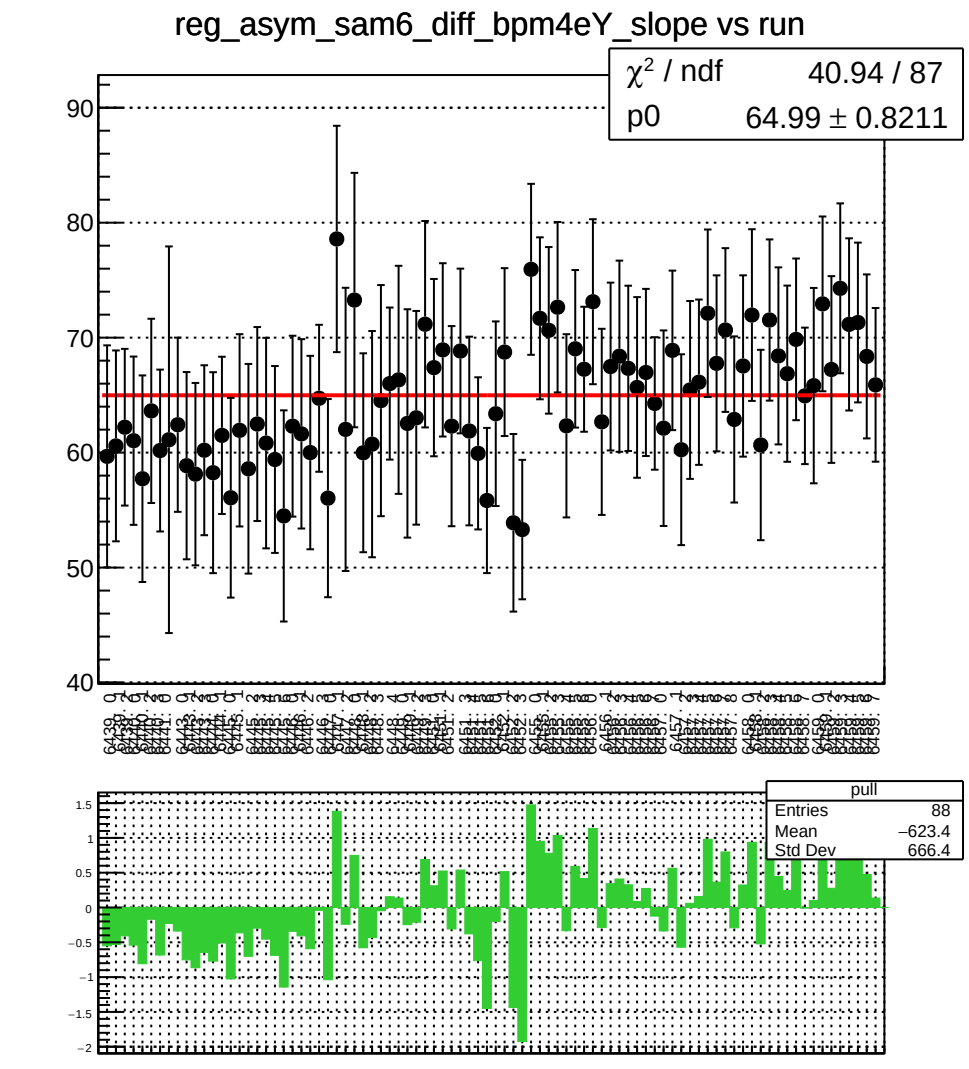

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 31.06 / 87
p0 46.27 ± 1.166
pull
Entries 88
Mean −57.1
Std Dev 91.83
pull1D
Entries 88
Mean 0.03998
Std Dev 0.5927

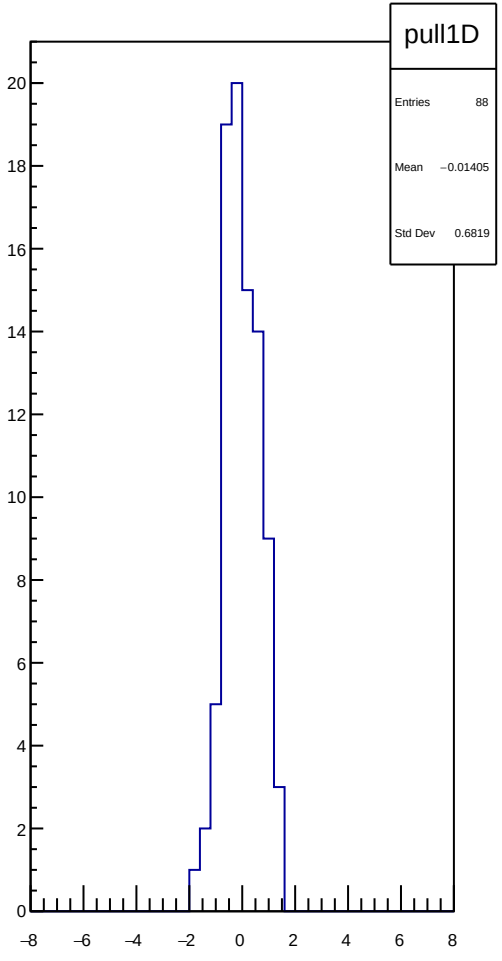

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 34.46 / 87
p0 44.9 ± 0.8171
pull
Entries 88
Mean −184.2
Std Dev 238

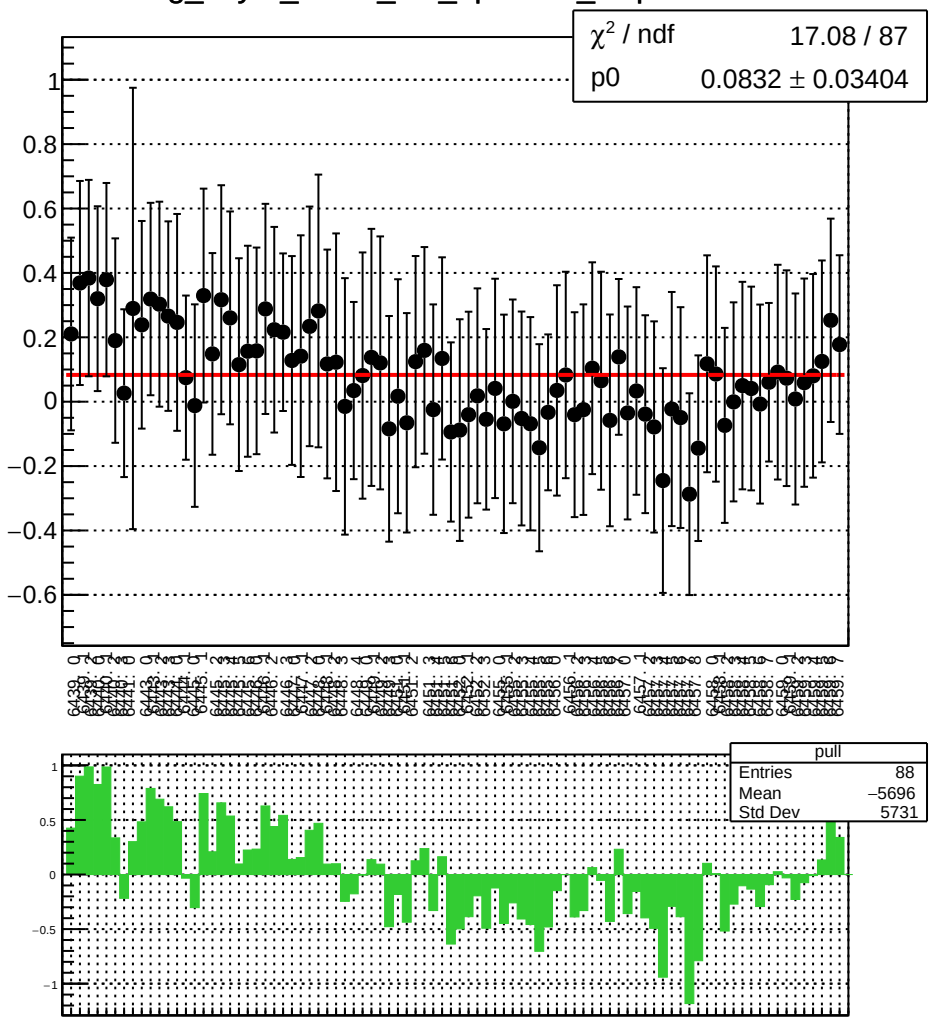

pull1D
Entries 88
Mean 0.0109
Std Dev 0.6257

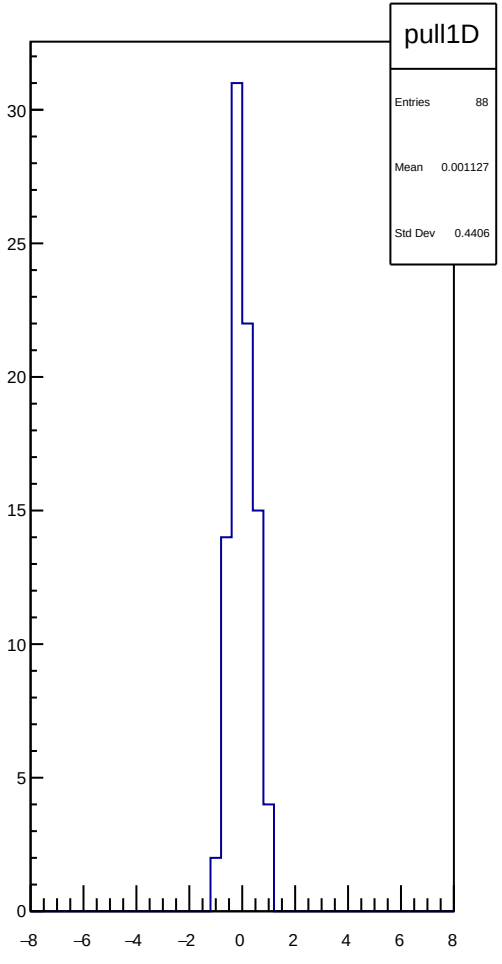

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 30.6 / 87
p0 8.985 ± 1.265
pull
Entries 88
Mean −76.42
Std Dev 112.1

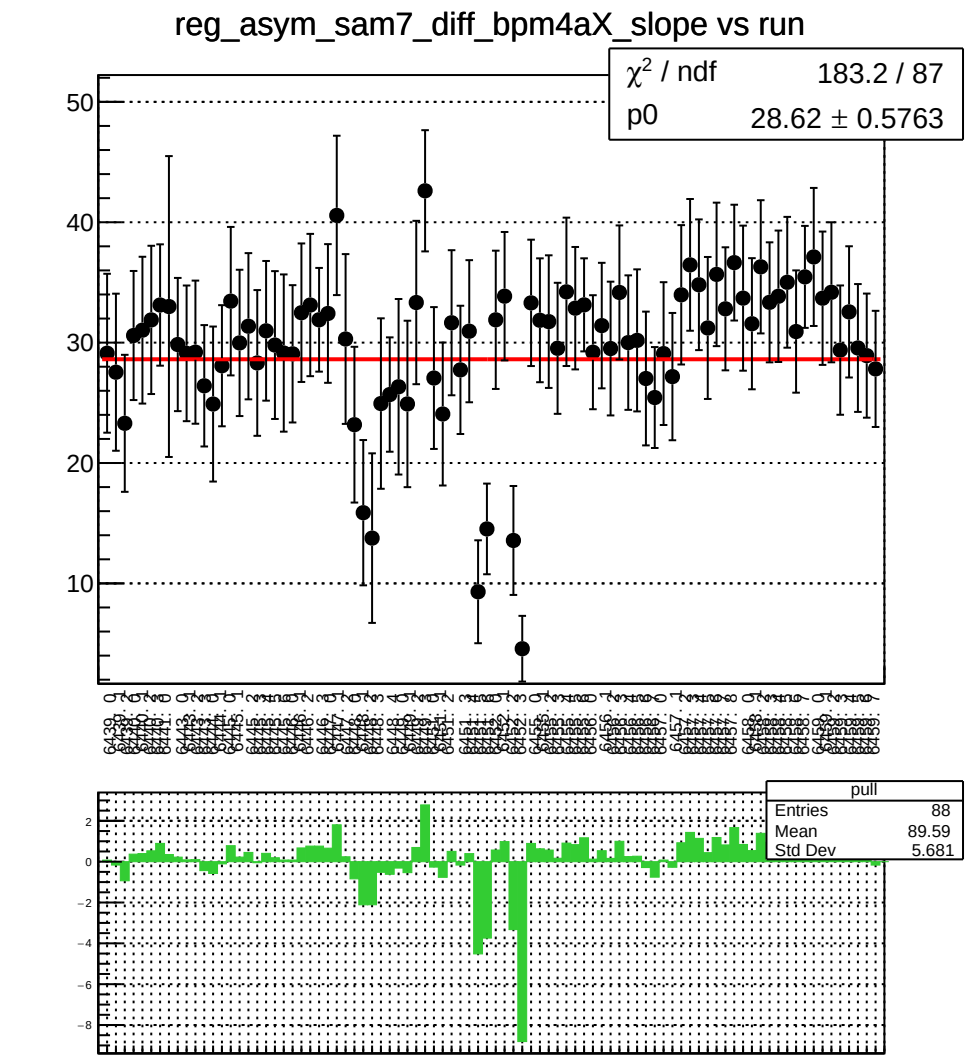

pull1D
Entries 88
Mean −0.04617
Std Dev 0.5879

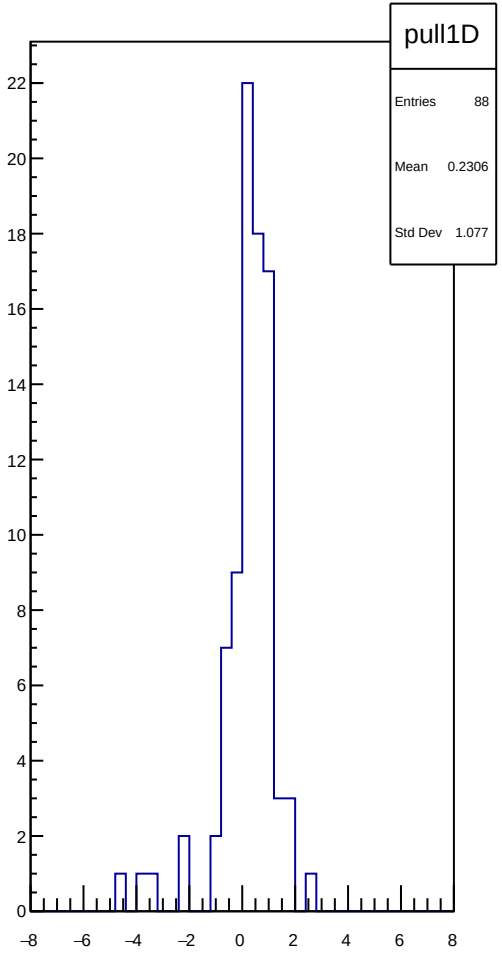

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 40.94 / 87
p0 64.99 ± 0.8211
pull
Entries 88
Mean −623.4
Std Dev 666.4

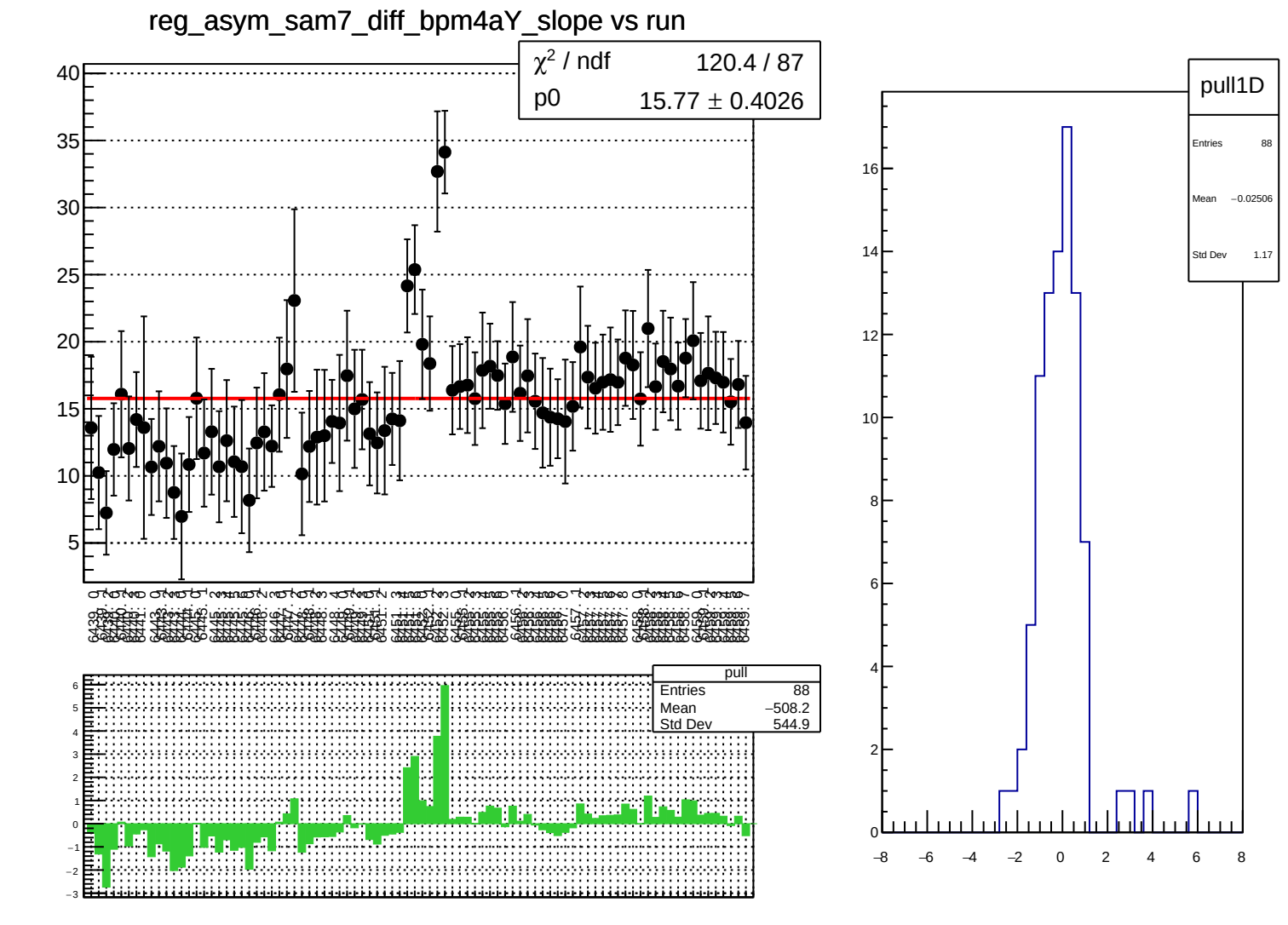

pull1D
Entries 88
Mean −0.01405
Std Dev 0.6819

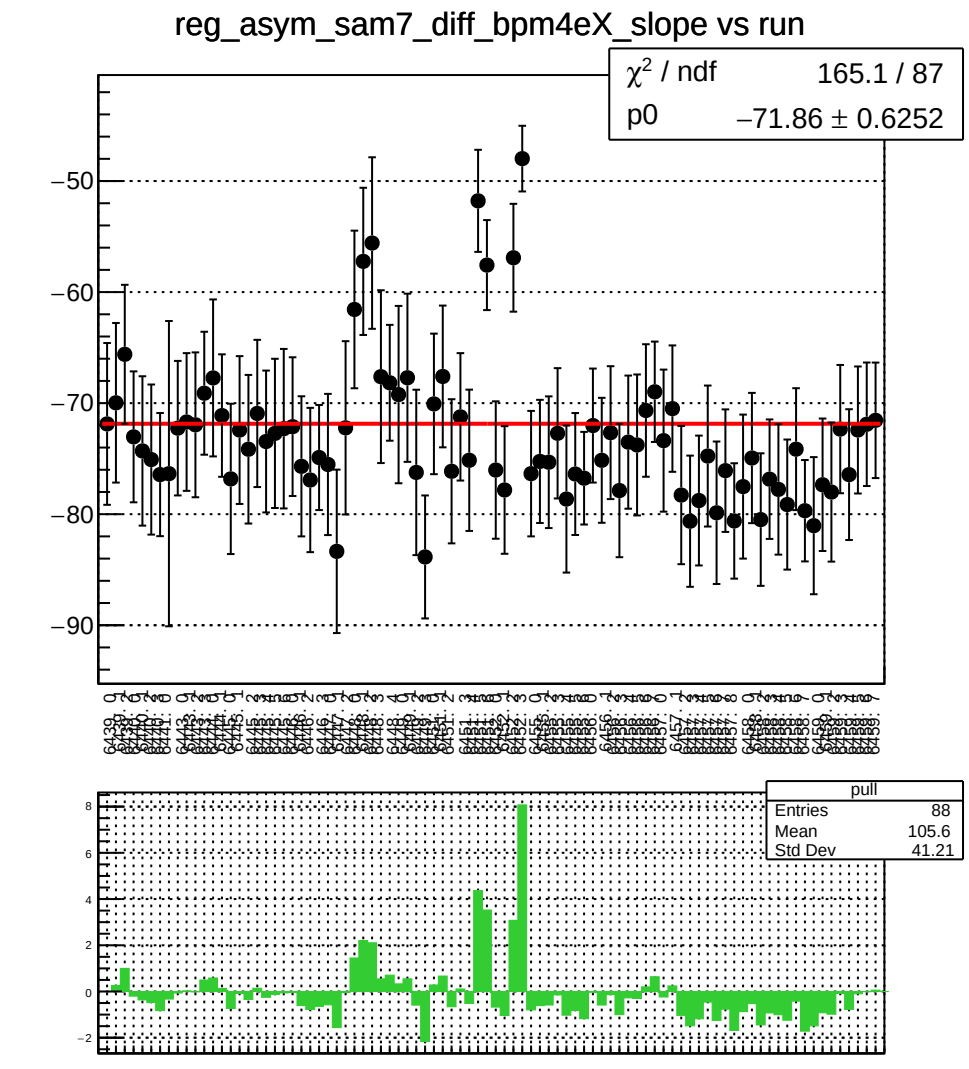

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 17.08 / 87
p0 0.0832 ± 0.03404
pull
Entries 88
Mean −5696
Std Dev 5731

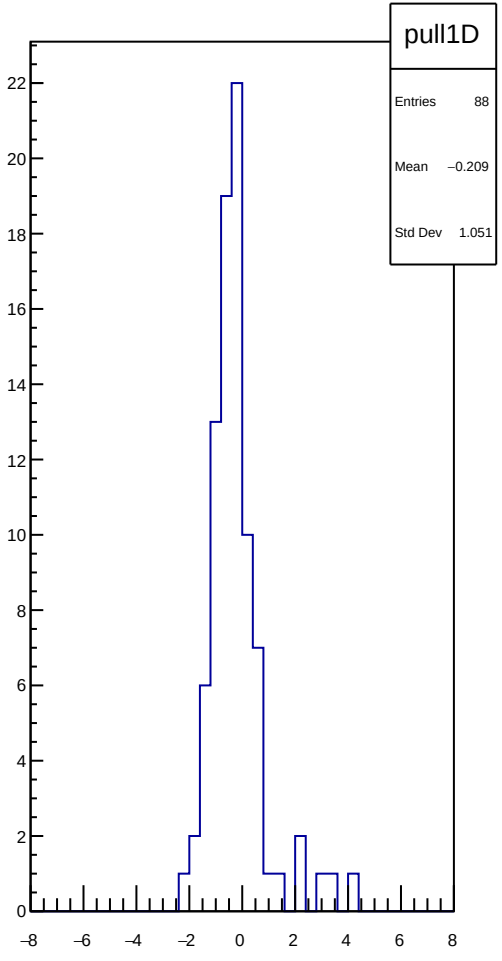

pull1D
Entries 88
Mean 0.001127
Std Dev 0.4406

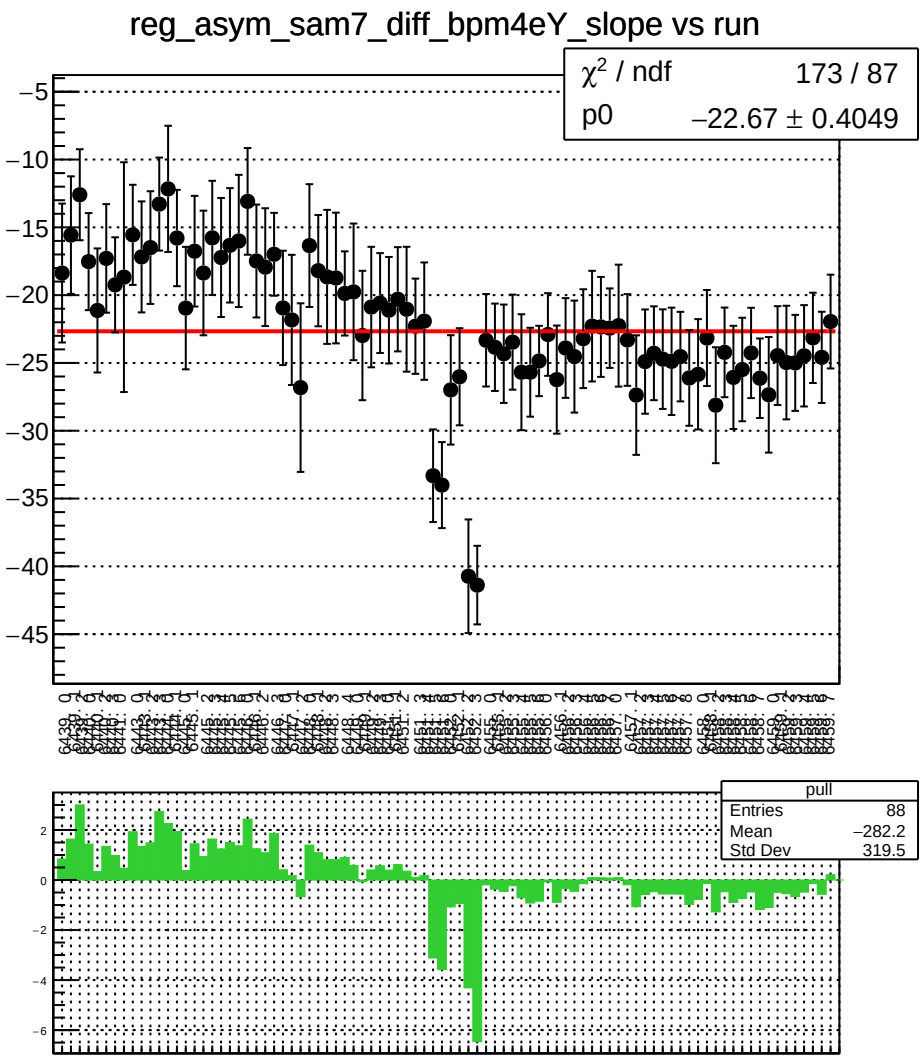

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 183.2 / 87
p0 28.62 ± 0.5763
pull
Entries 88
Mean 89.59
Std Dev 5.681

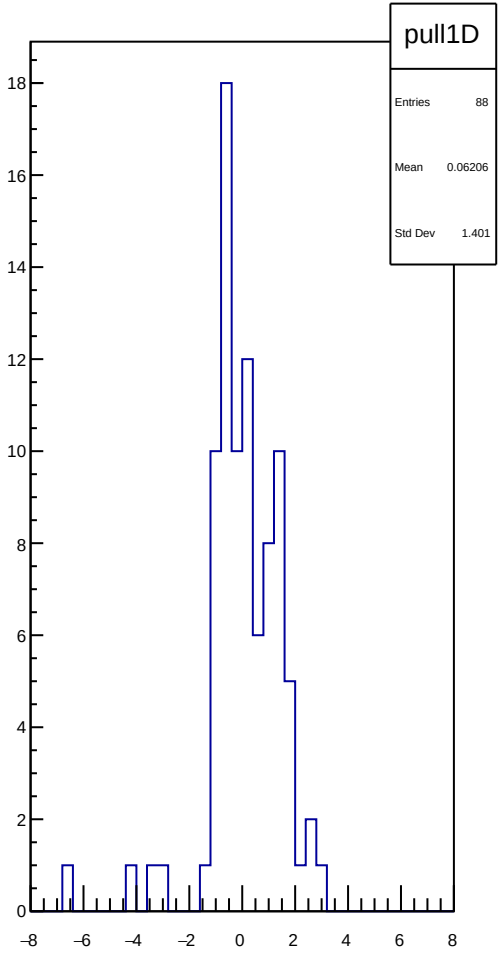

pull1D
Entries 88
Mean 0.2306
Std Dev 1.077

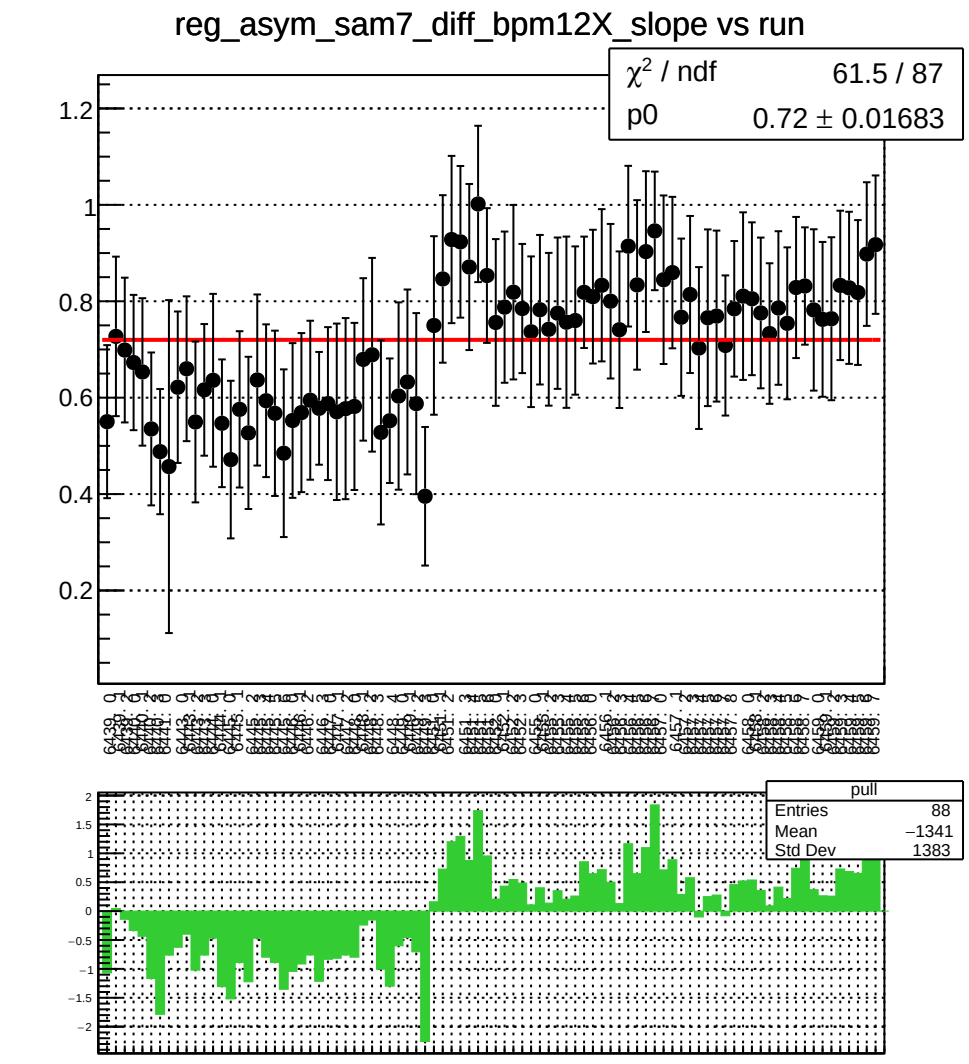

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 120.4 / 87
p0 15.77 ± 0.4026
pull
Entries 88
Mean −508.2
Std Dev 544.9
pull1D
Entries 88
Mean −0.02506
Std Dev 1.17

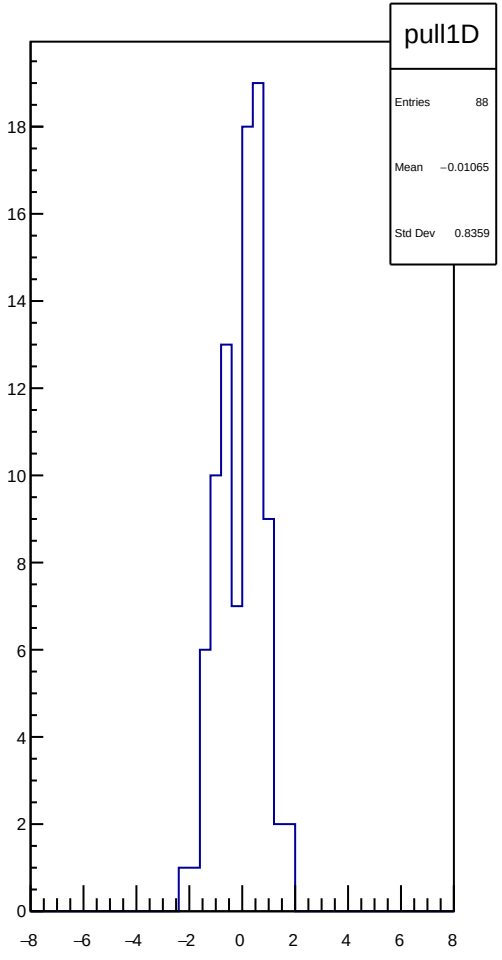

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 165.1 / 87
p0 −71.86 ± 0.6252
pull
Entries 88
Mean 105.6
Std Dev 41.21

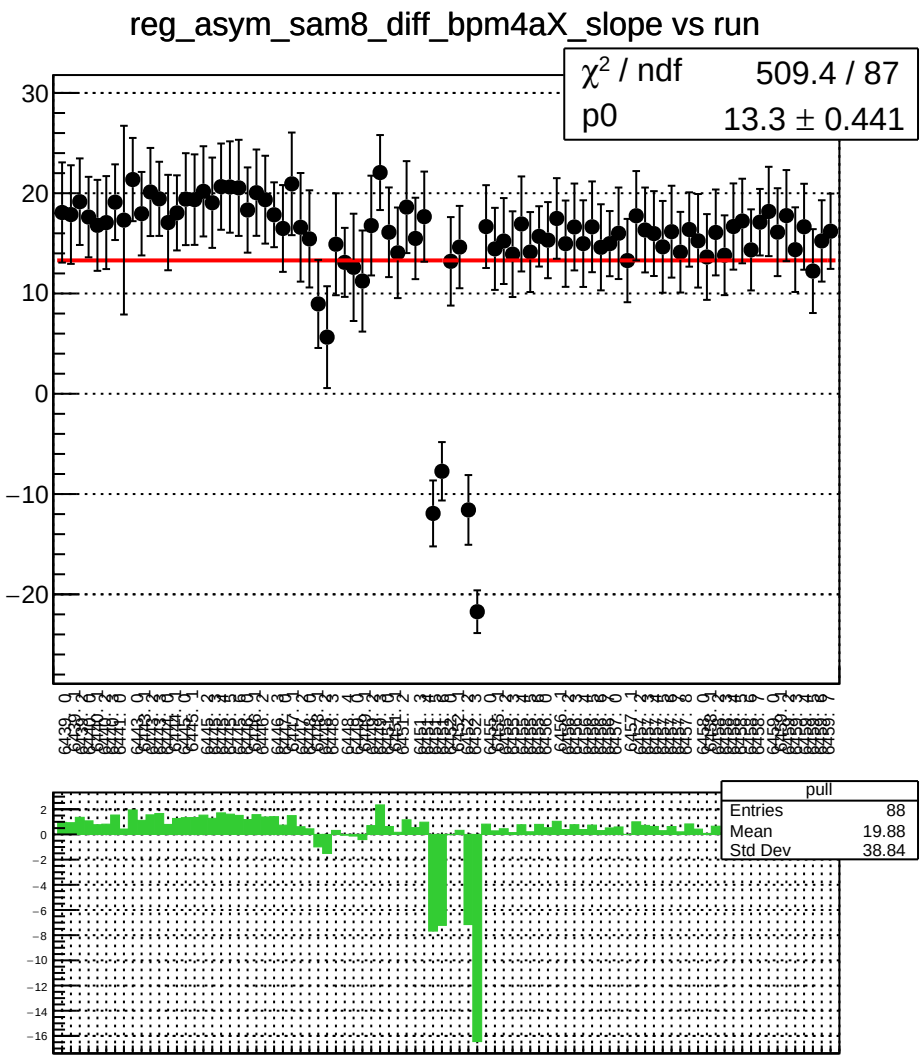

pull1D
Entries 88
Mean −0.209
Std Dev 1.051

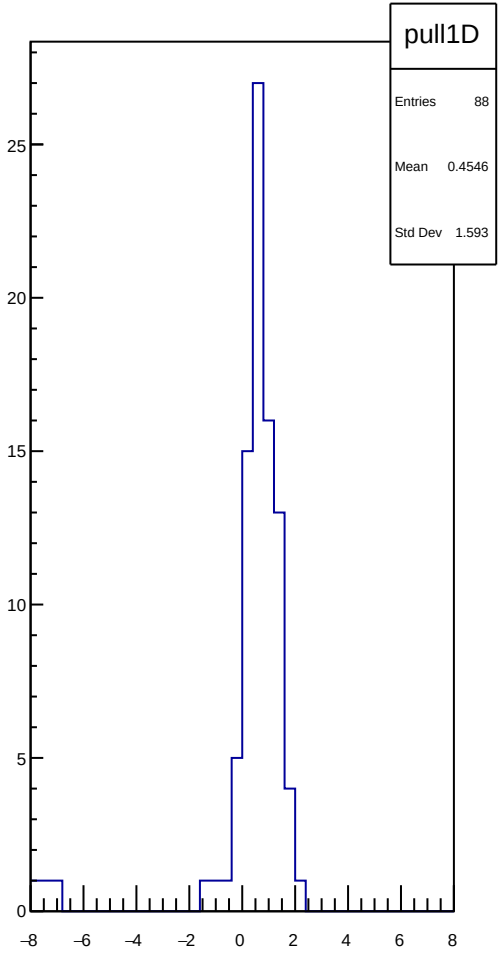

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 173 / 87
p0 −22.67 ± 0.4049
pull
Entries 88
Mean −282.2
Std Dev 319.5

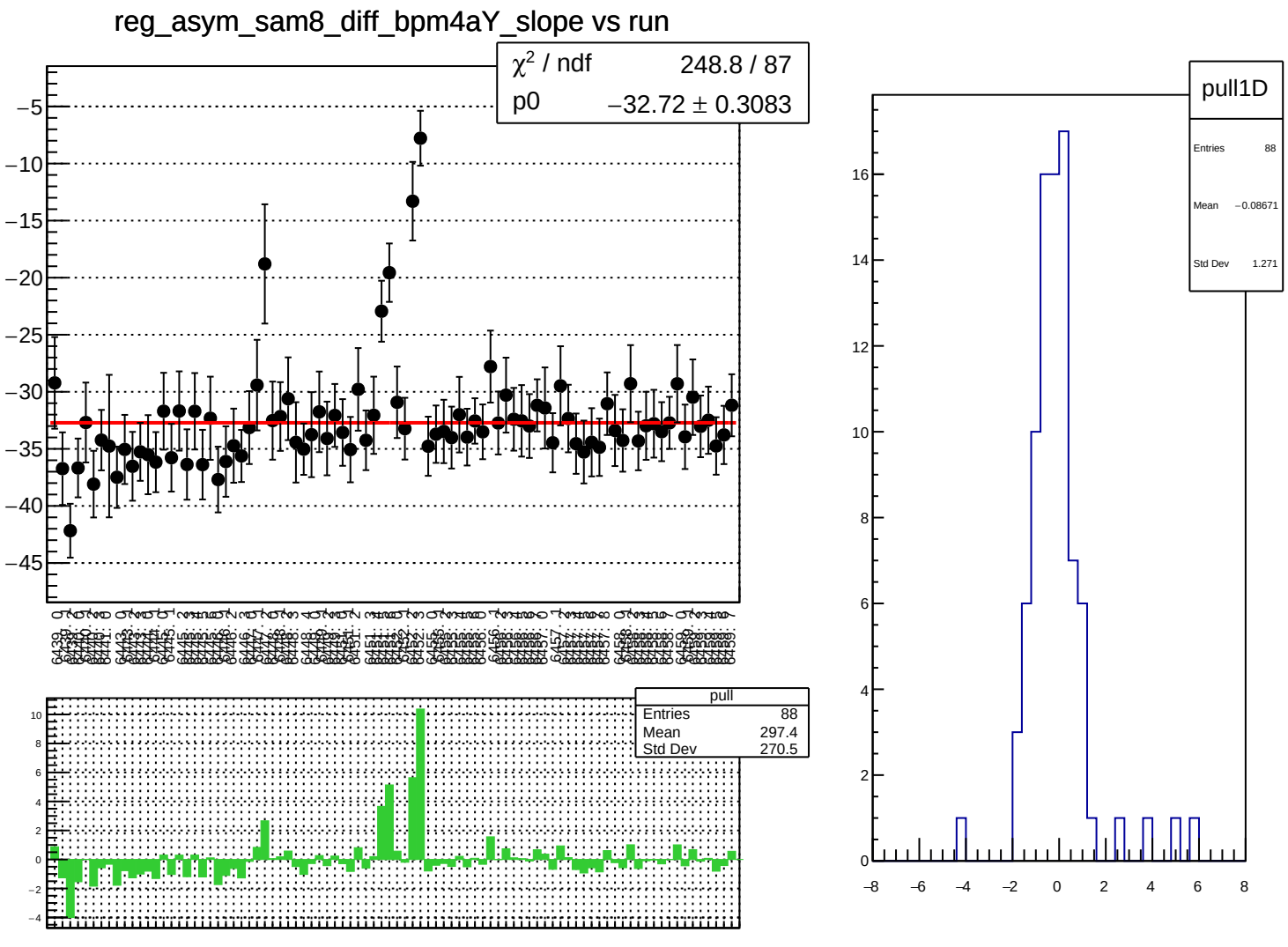

pull1D
Entries 88
Mean 0.06206
Std Dev 1.401

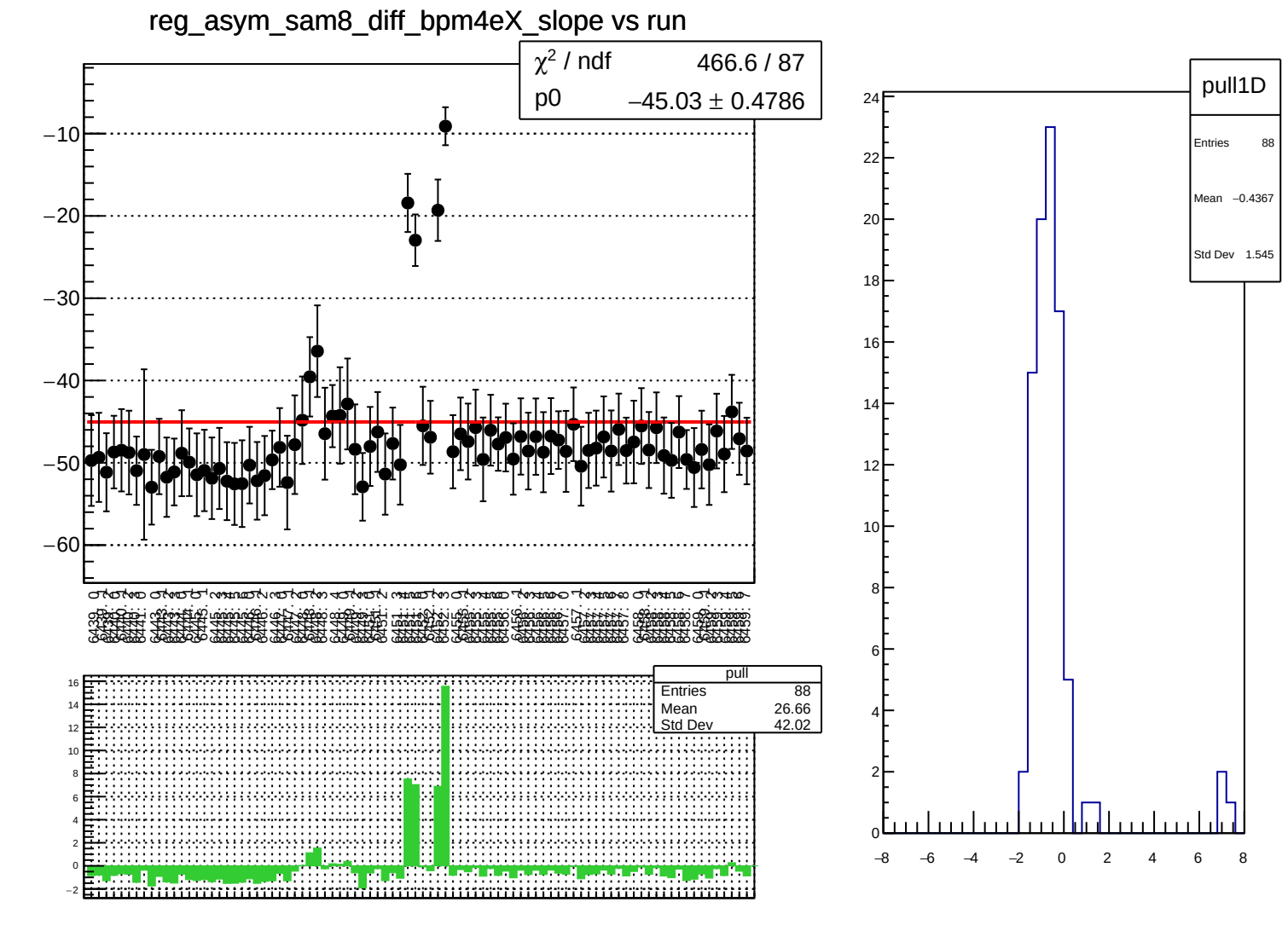

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 61.5 / 87
p0 0.72 ± 0.01683
pull
Entries 88
Mean −1341
Std Dev 1383

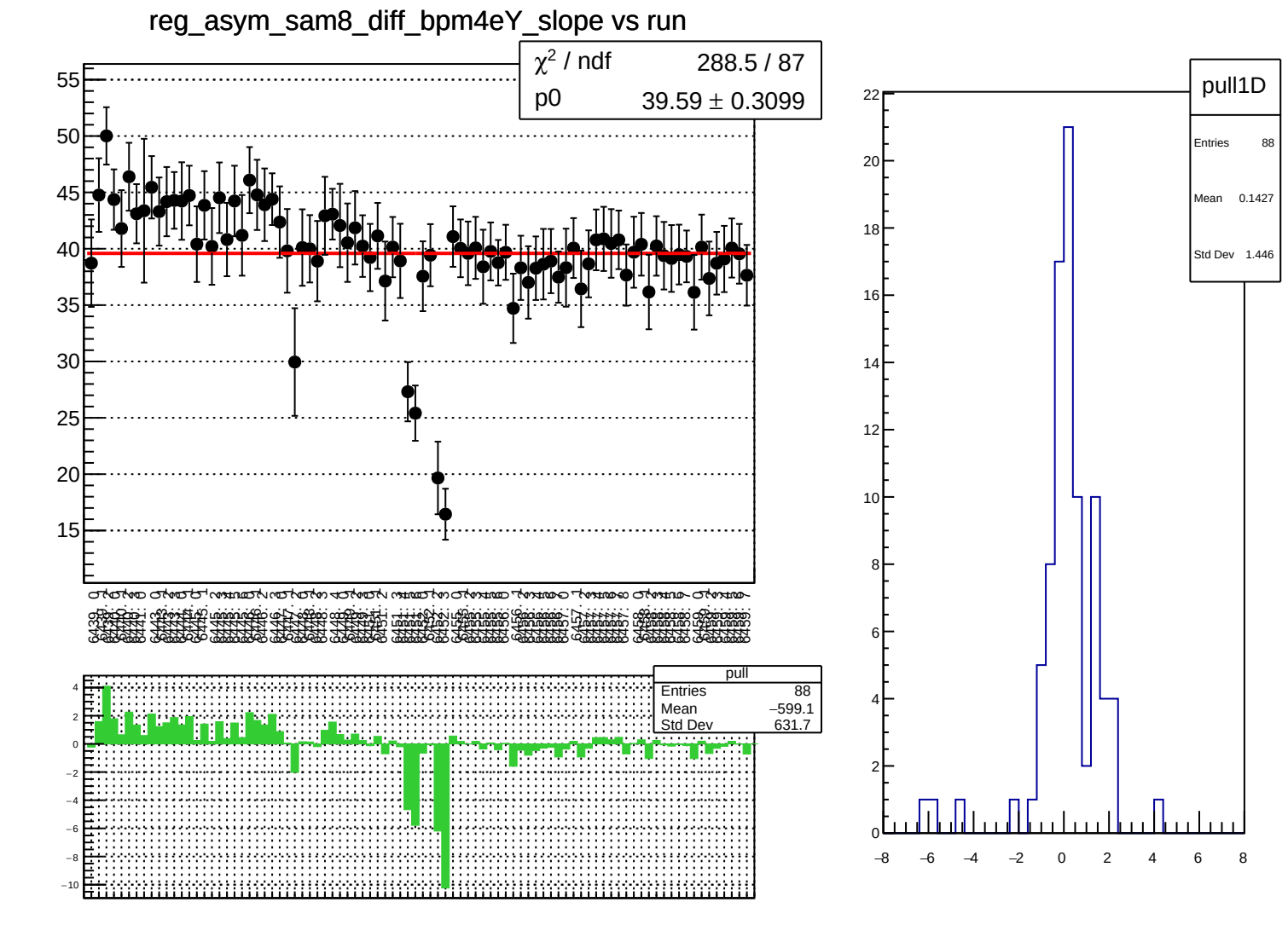

pull1D
Entries 88
Mean −0.01065
Std Dev 0.8359

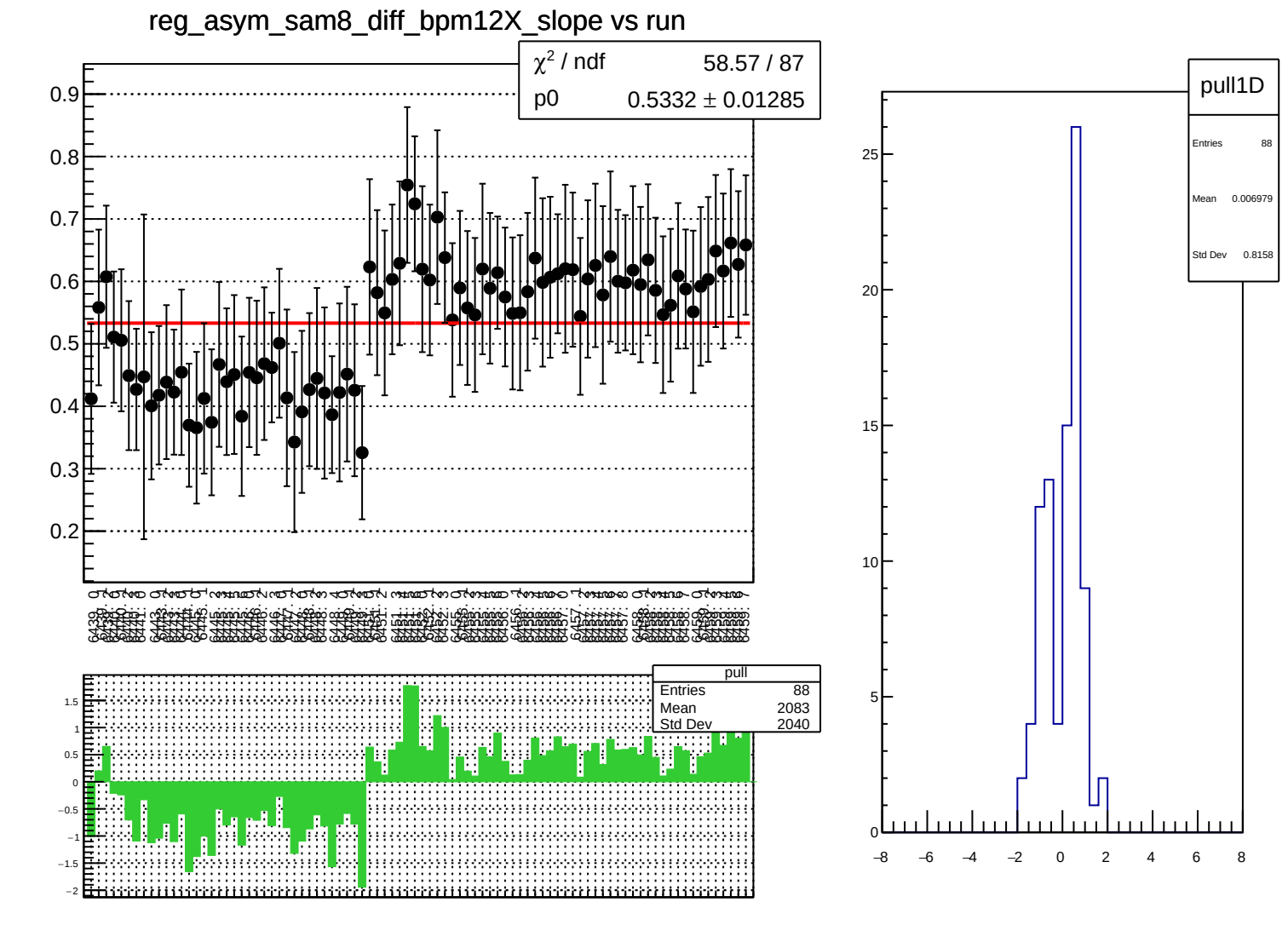

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 509.4 / 87
p0 13.3 ± 0.441
pull
Entries 88
Mean 19.88
Std Dev 38.84

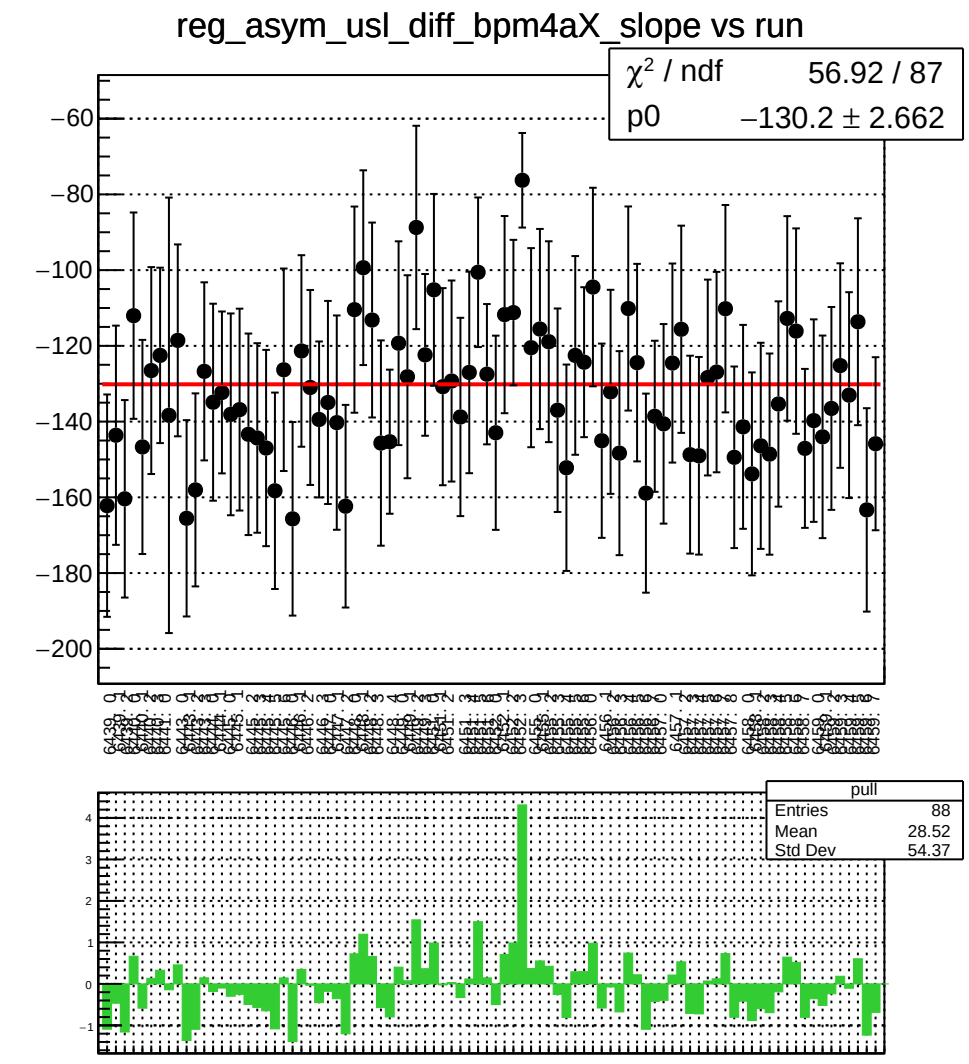

pull1D
Entries 88
Mean 0.4546
Std Dev 1.593

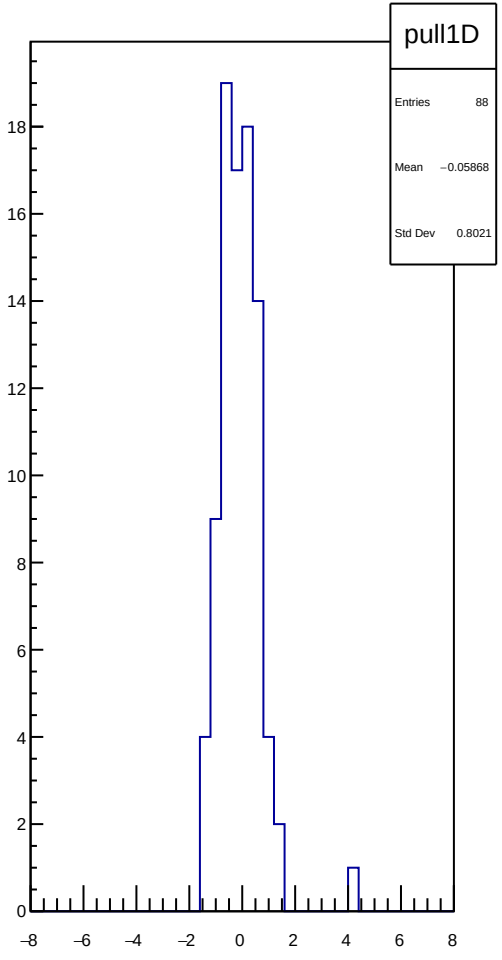

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 248.8 / 87
p0 −32.72 ± 0.3083
pull
Entries 88
Mean 297.4
Std Dev 270.5
pull1D
Entries 88
Mean −0.08671
Std Dev 1.271

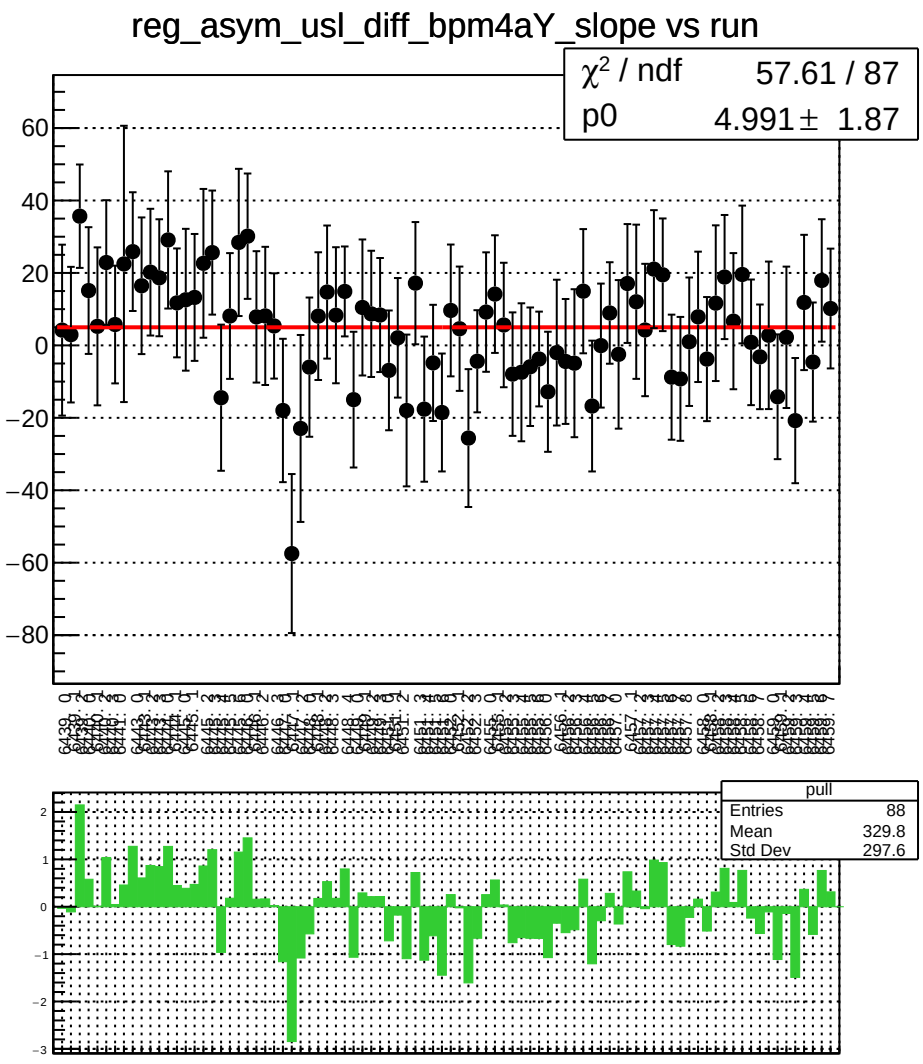

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 466.6 / 87
p0 −45.03 ± 0.4786
pull
Entries 88
Mean 26.66
Std Dev 42.02
pull1D
Entries 88
Mean −0.4367
Std Dev 1.545

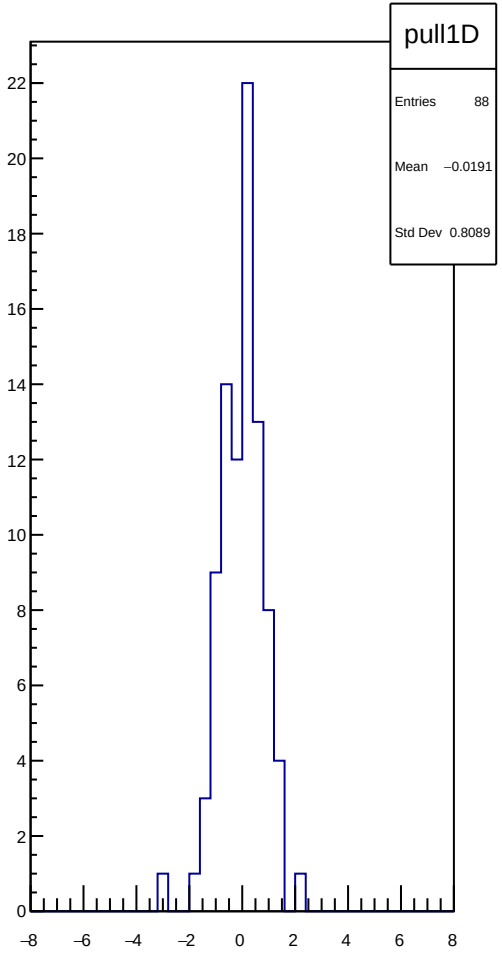

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 288.5 / 87
p0 39.59 ± 0.3099
pull
Entries 88
Mean −599.1
Std Dev 631.7
pull1D
Entries 88
Mean 0.1427
Std Dev 1.446

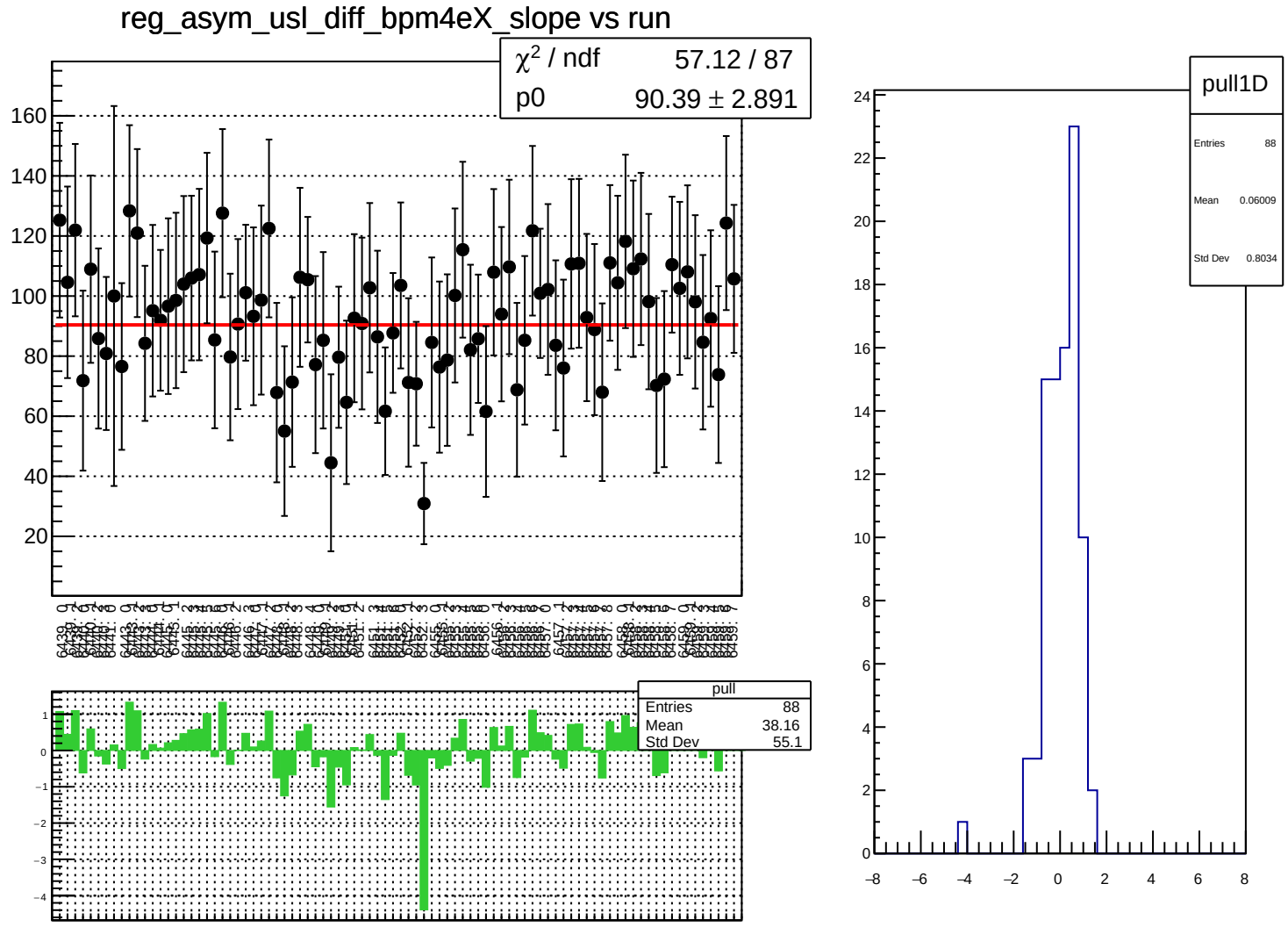

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 58.57 / 87
p0 0.5332 ± 0.01285
pull
Entries 88
Mean 2083
Std Dev 2040
pull1D
Entries 88
Mean 0.006979
Std Dev 0.8158

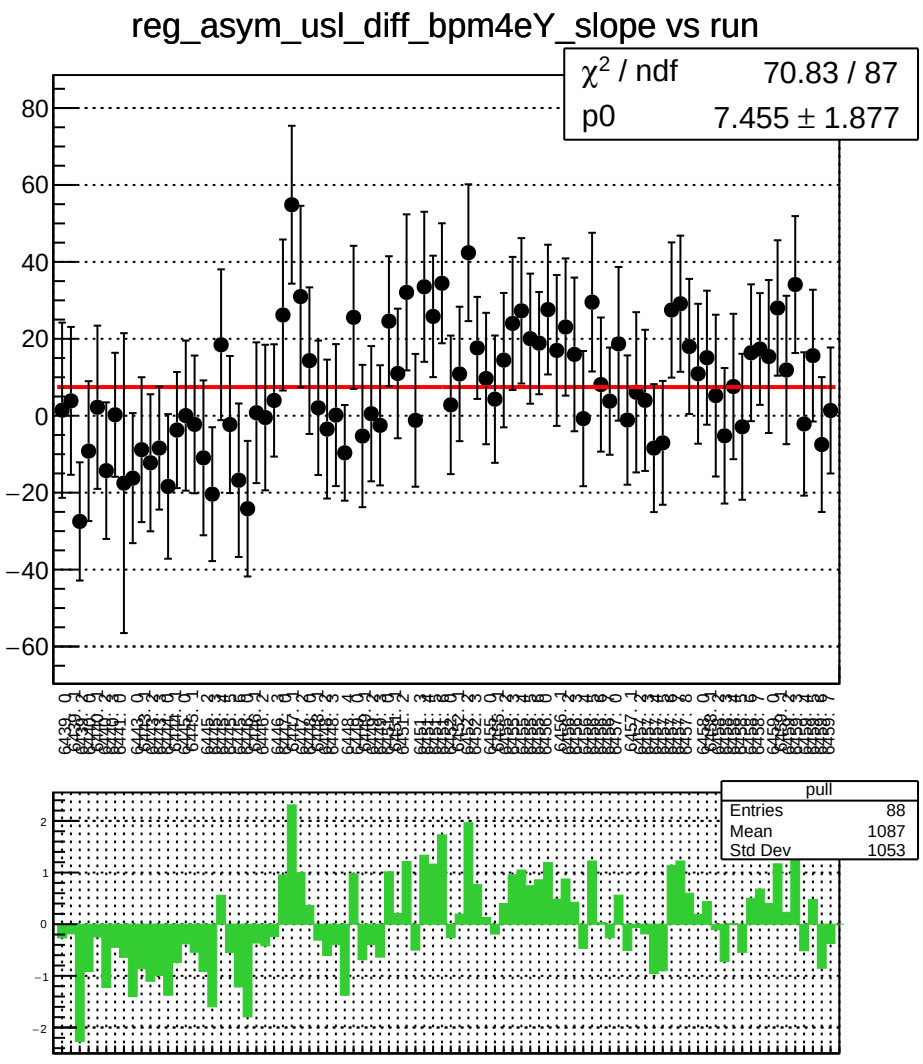

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 56.92 / 87
p0 −130.2 ± 2.662
pull
Entries 88
Mean 28.52
Std Dev 54.37

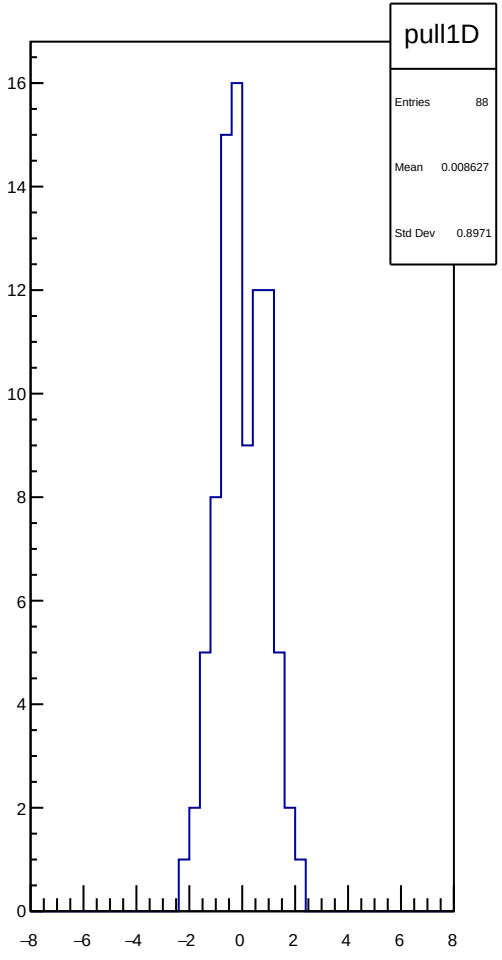

pull1D
Entries 88
Mean −0.05868
Std Dev 0.8021

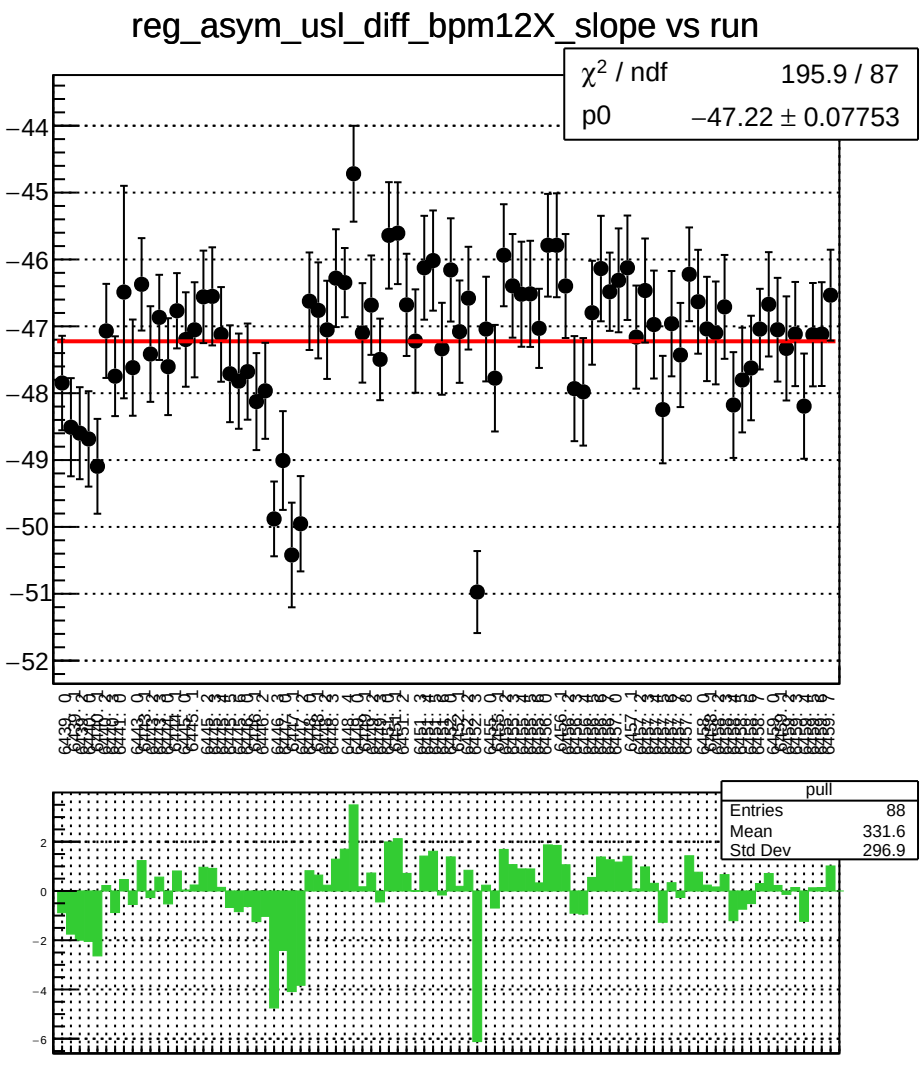

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 57.61 / 87
p0 4.991 ± 1.87
pull
Entries 88
Mean 329.8
Std Dev 297.6

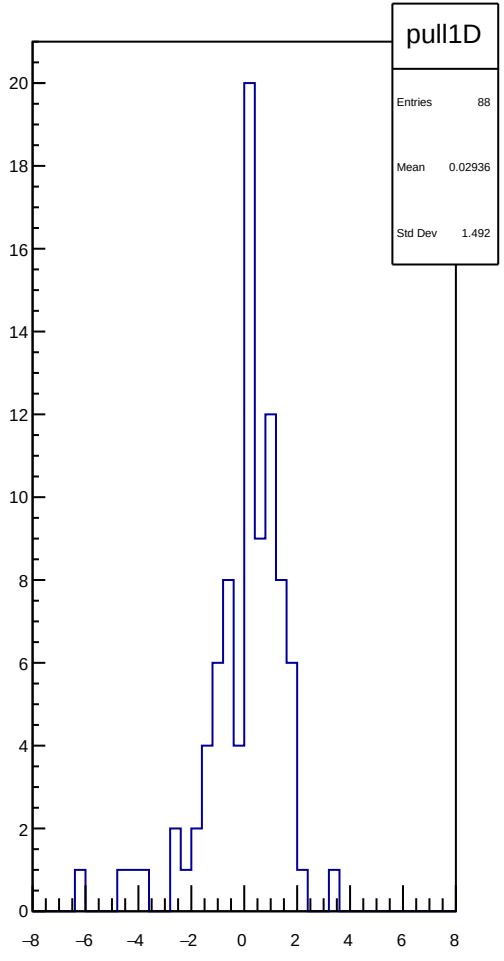

pull1D
Entries 88
Mean −0.0191
Std Dev 0.8089

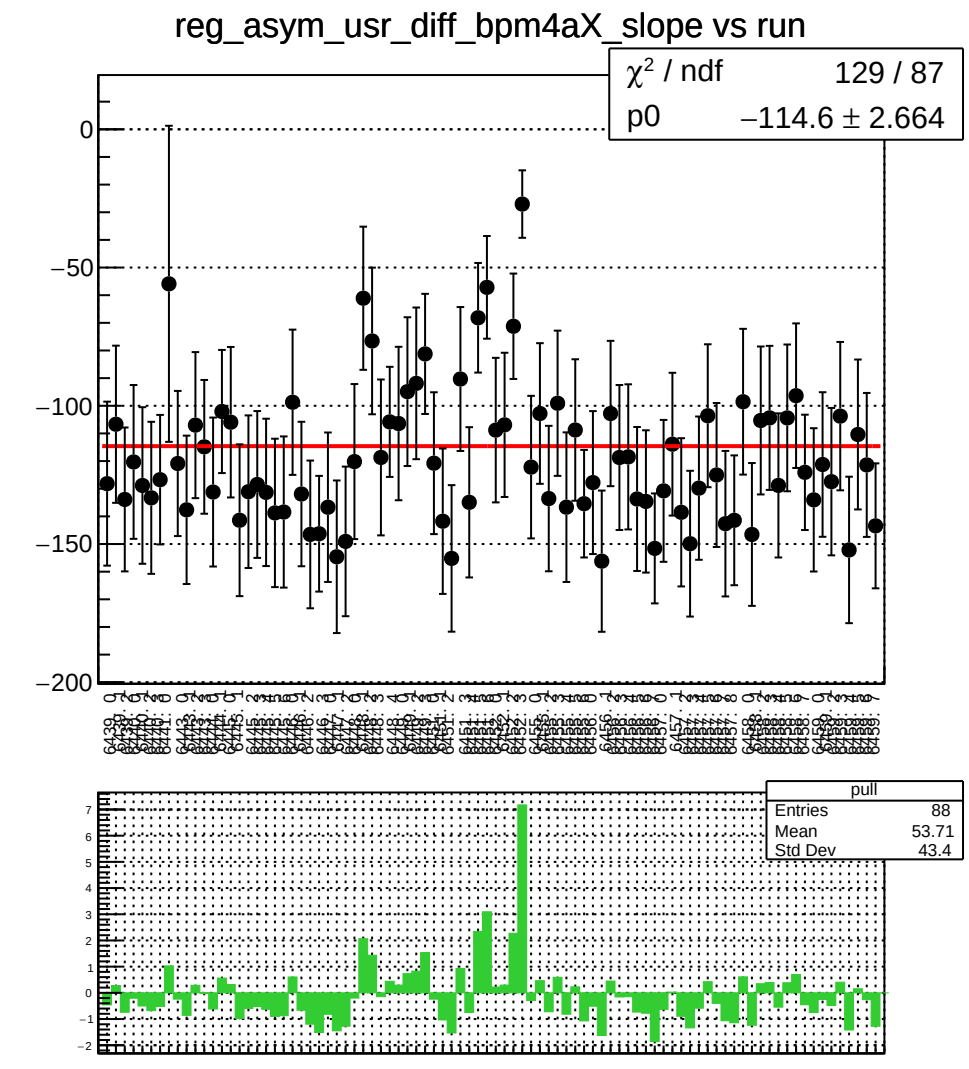

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 57.12 / 87
p0 90.39 ± 2.891
pull
Entries 88
Mean 38.16
Std Dev 55.1
pull1D
Entries 88
Mean 0.06009
Std Dev 0.8034

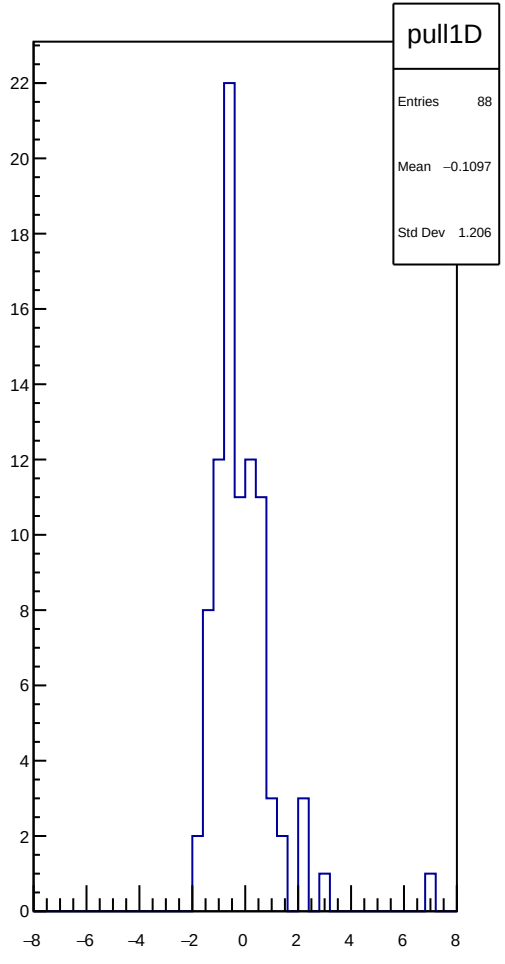

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 70.83 / 87
p0 7.455 ± 1.877
pull
Entries 88
Mean 1087
Std Dev 1053

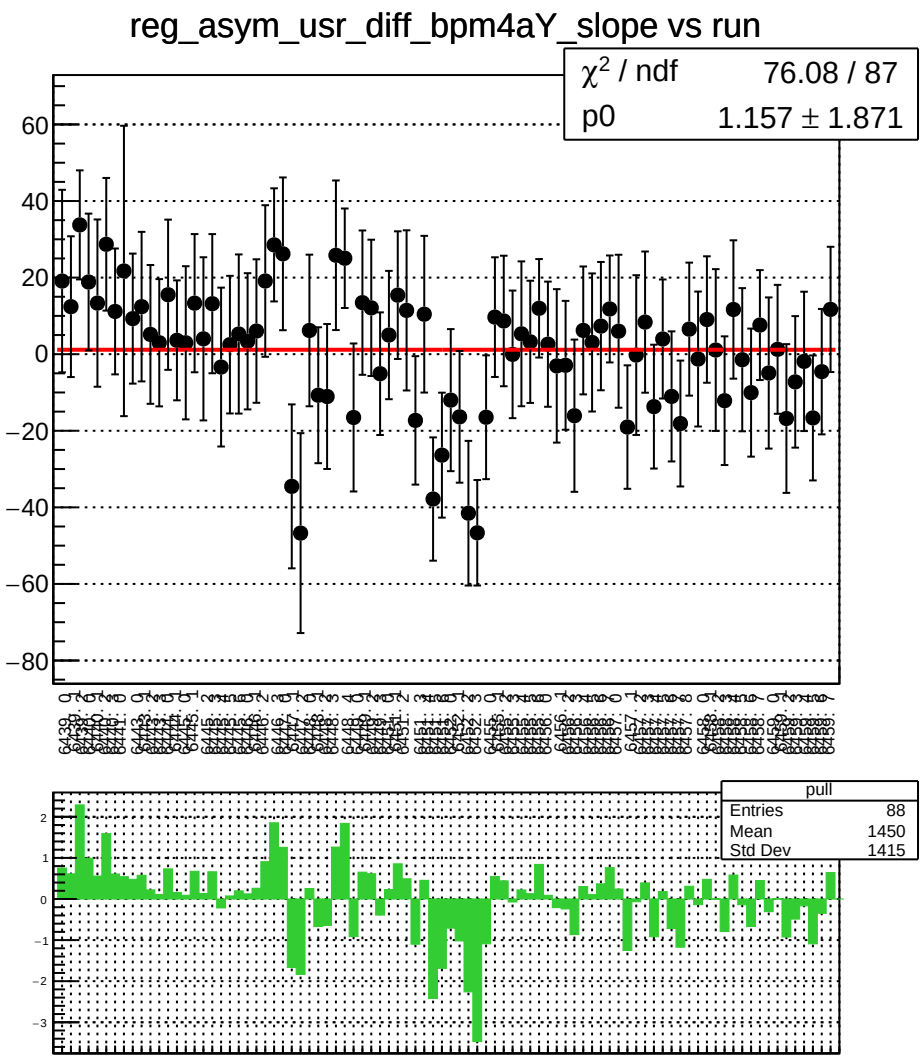

pull1D
Entries 88
Mean 0.008627
Std Dev 0.8971

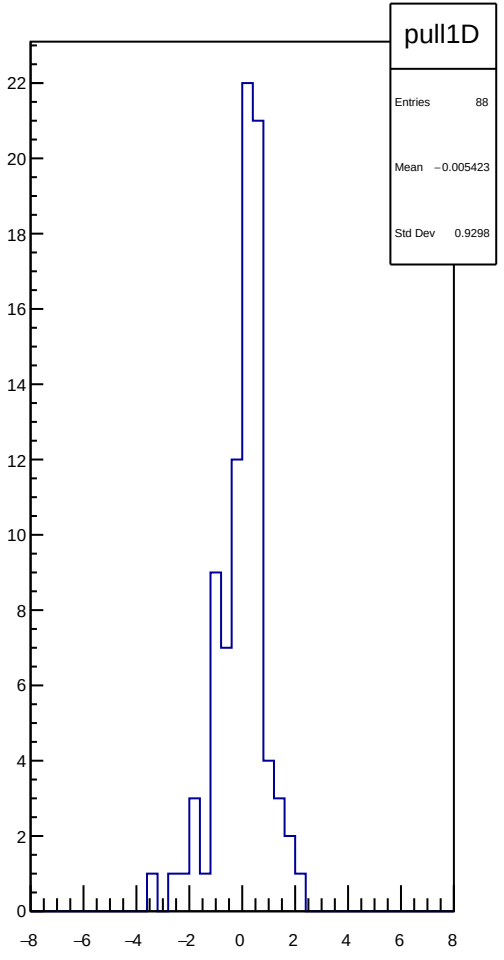

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 195.9 / 87
p0 −47.22 ± 0.07753
pull
Entries 88
Mean 331.6
Std Dev 296.9

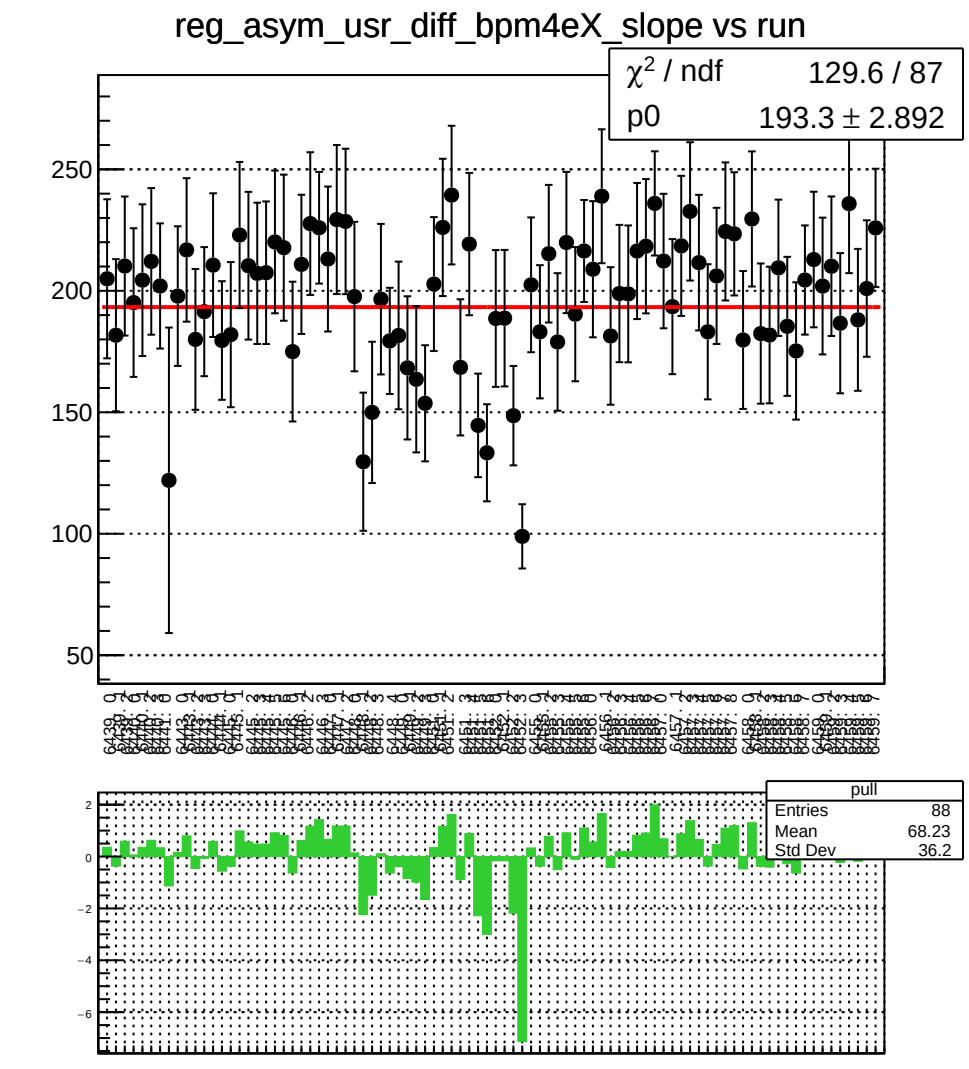

pull1D
Entries 88
Mean 0.02936
Std Dev 1.492

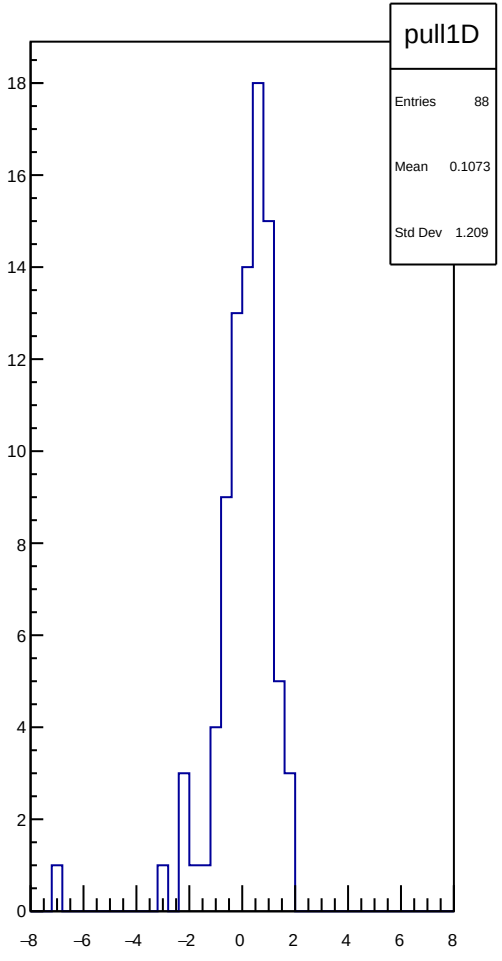

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 129 / 87
p0 −114.6 ± 2.664
pull
Entries 88
Mean 53.71
Std Dev 43.4

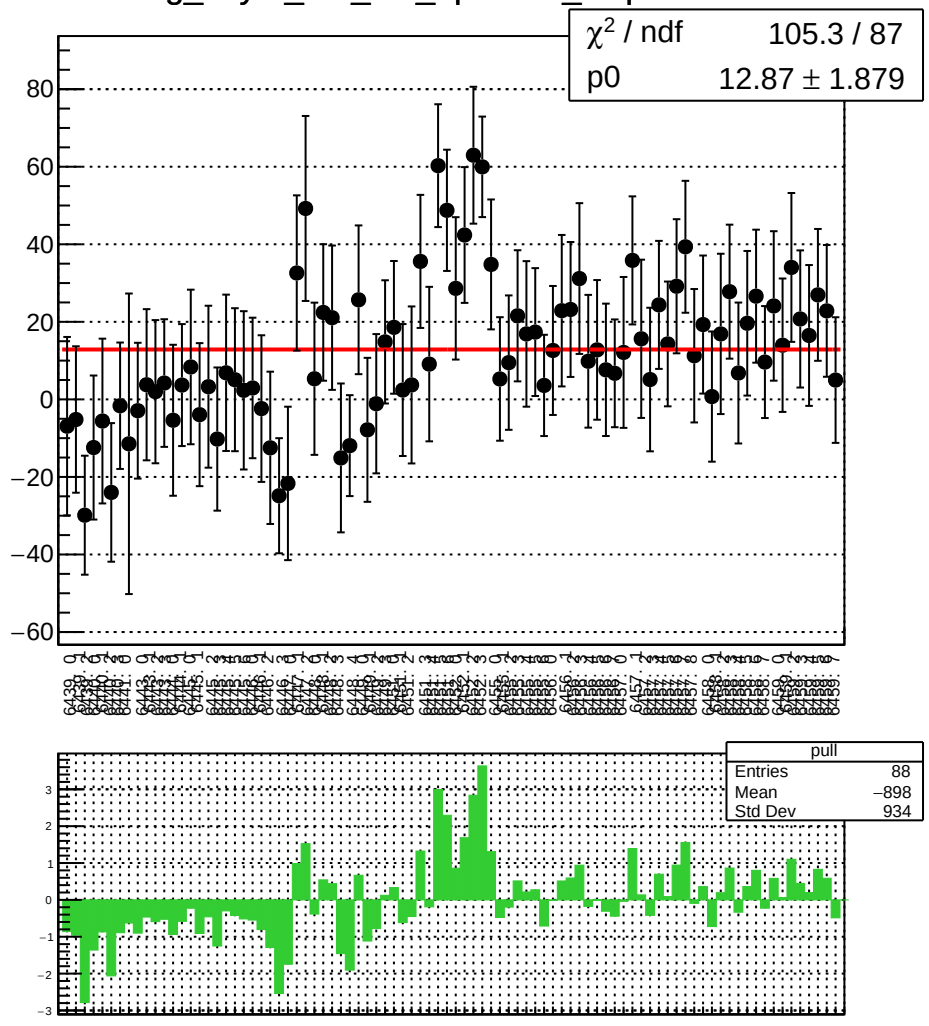

pull1D
Entries 88
Mean −0.1097
Std Dev 1.206

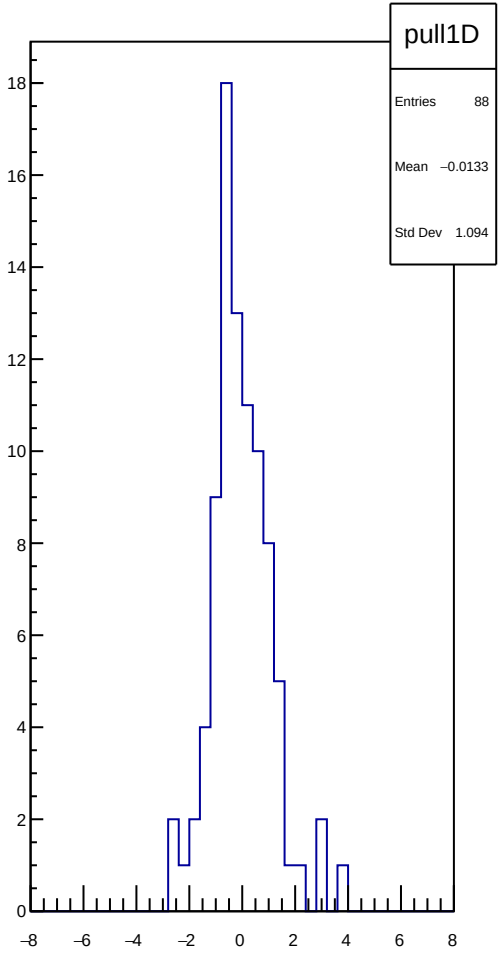

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 76.08 / 87
p0 1.157 ± 1.871
pull
Entries 88
Mean 1450
Std Dev 1415

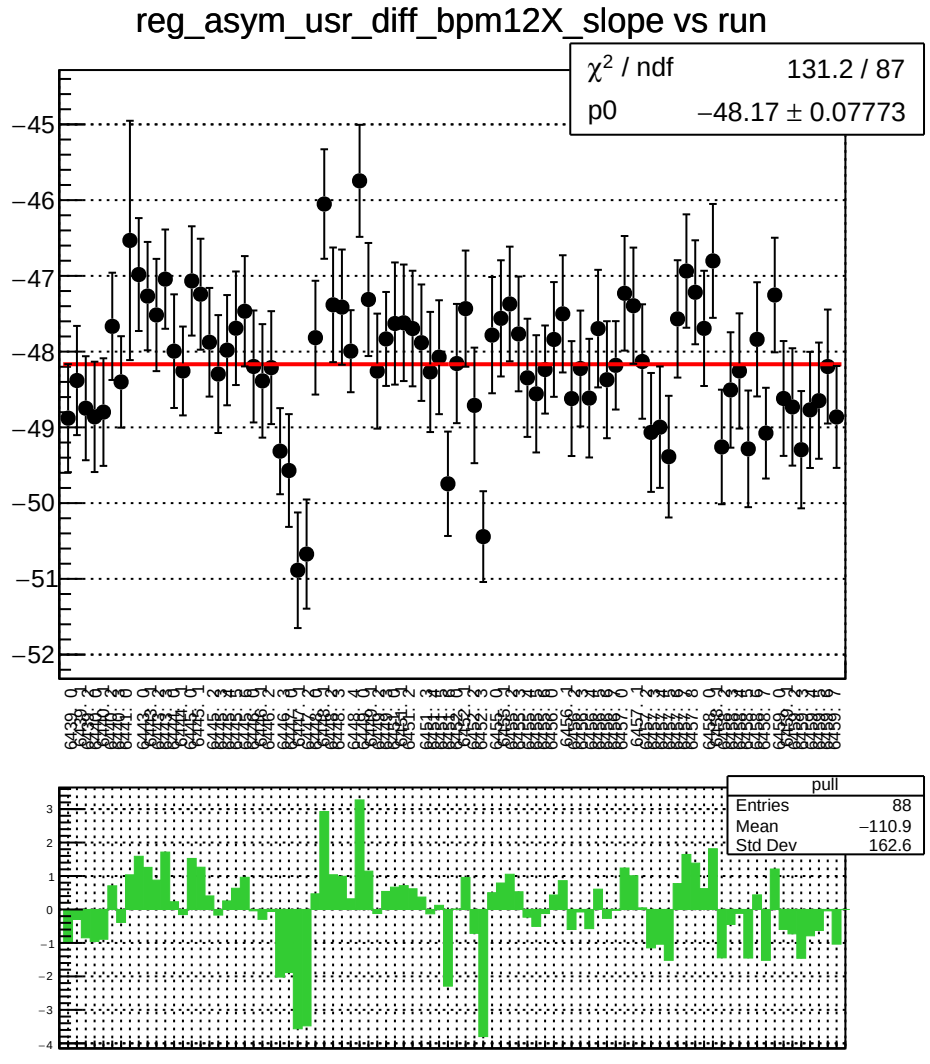

pull1D
Entries 88
Mean −0.005423
Std Dev 0.9298

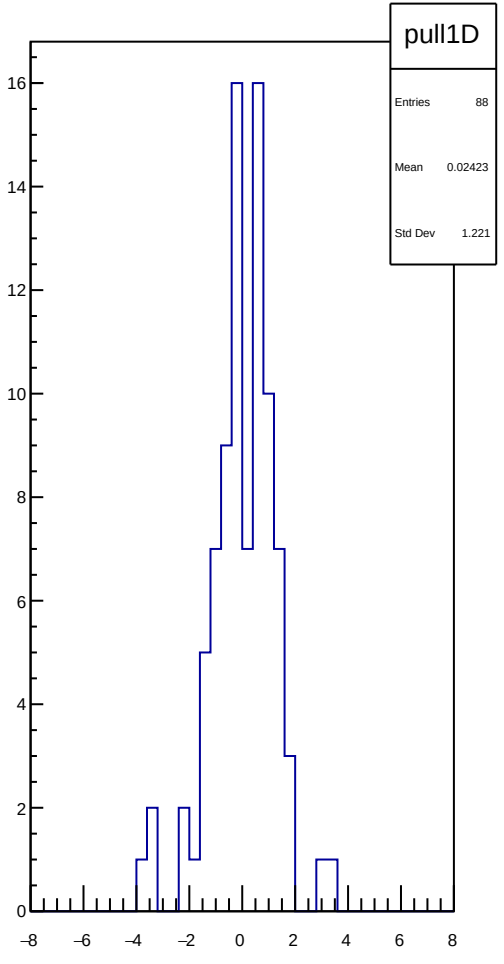

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 129.6 / 87
p0 193.3 ± 2.892
250
200
150
100
50
pull
Entries 88
Mean 68.23
Std Dev 36.2
2
0
−2
−4
−6

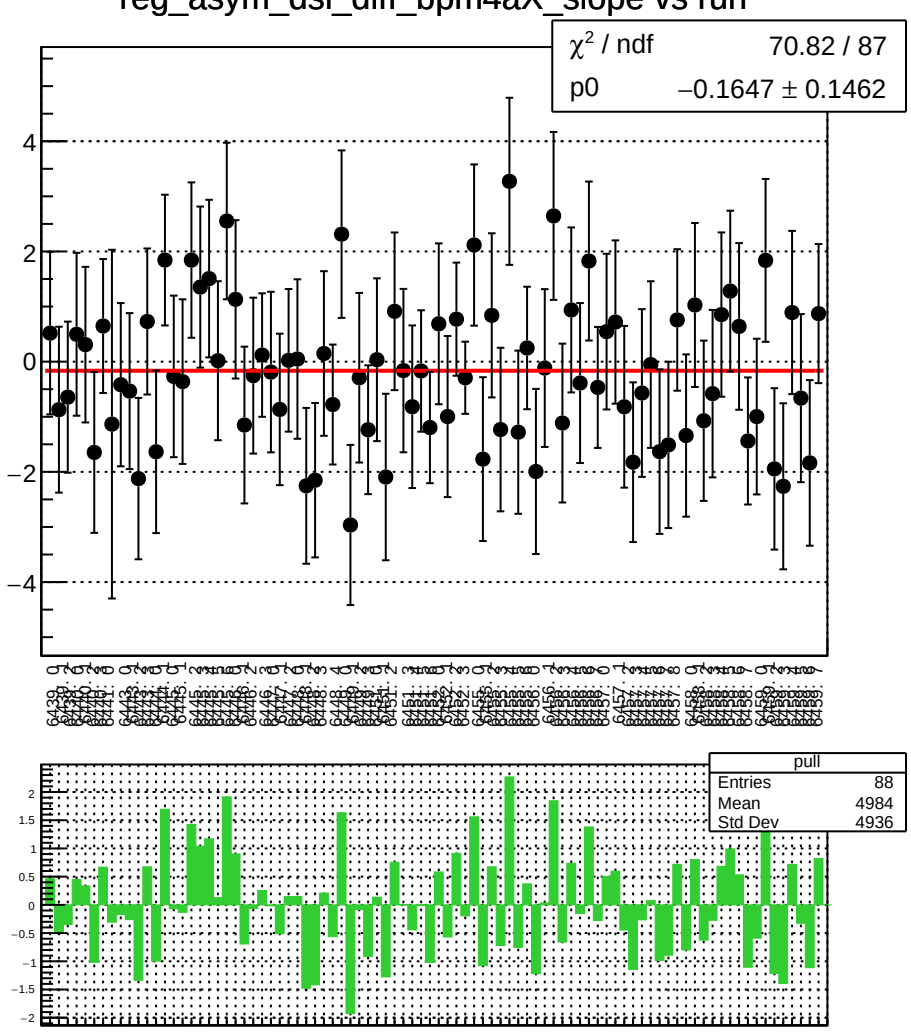

pull1D
Entries 88
Mean 0.1073
Std Dev 1.209
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

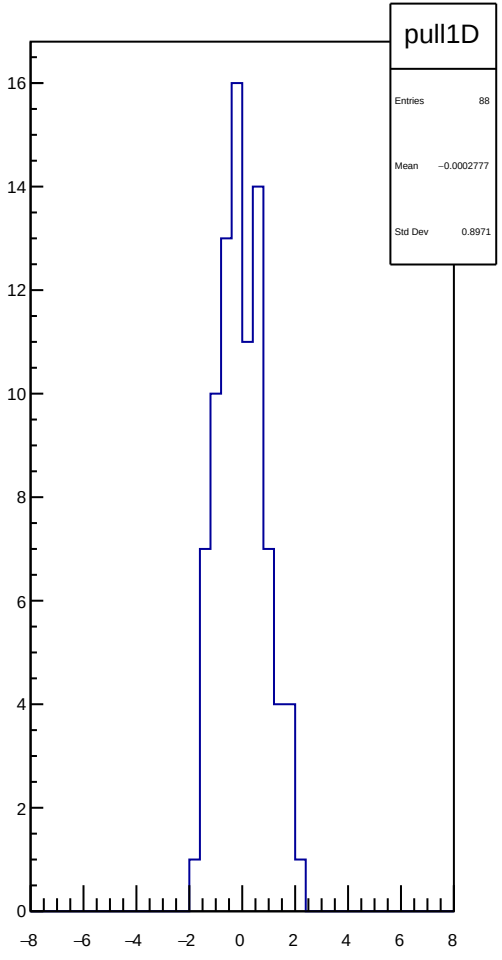

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 105.3 / 87
p0 12.87 ± 1.879
pull
Entries 88
Mean −898
Std Dev 934

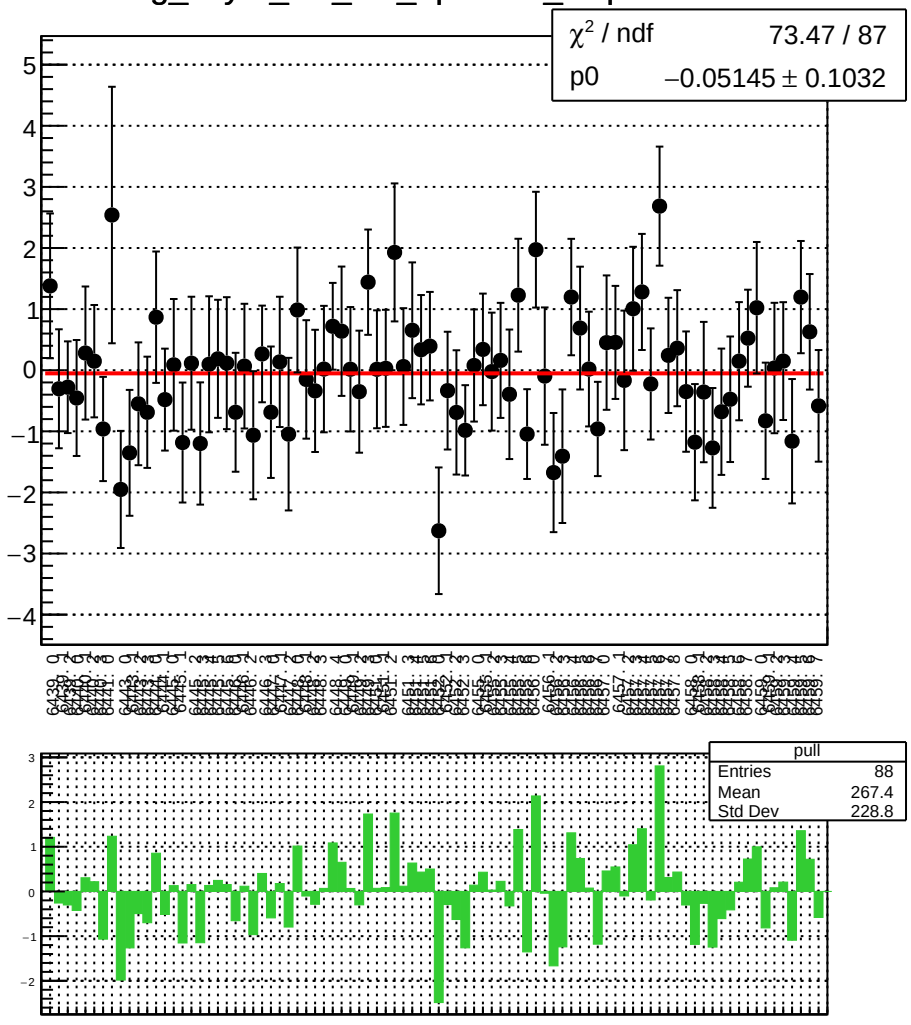

pull1D
Entries 88
Mean −0.0133
Std Dev 1.094

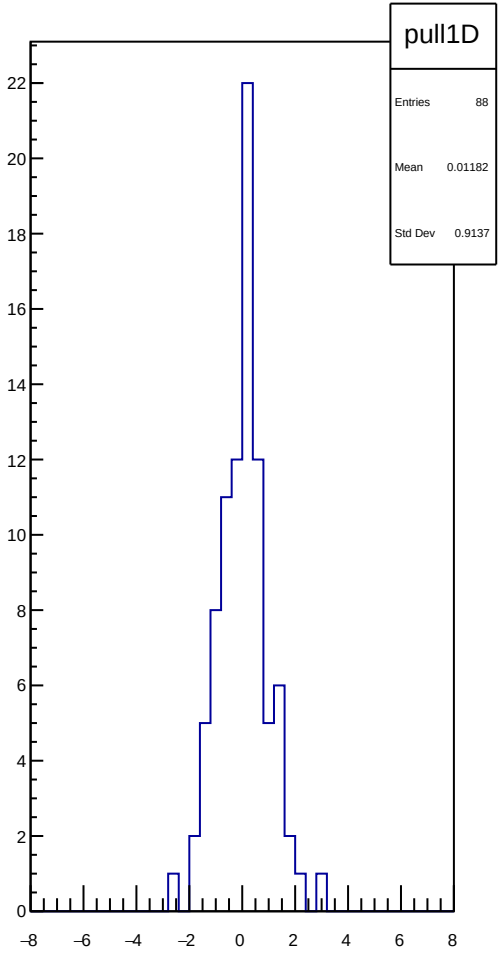

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 131.2 / 87
p0 −48.17 ± 0.07773
pull
Entries 88
Mean −110.9
Std Dev 162.6

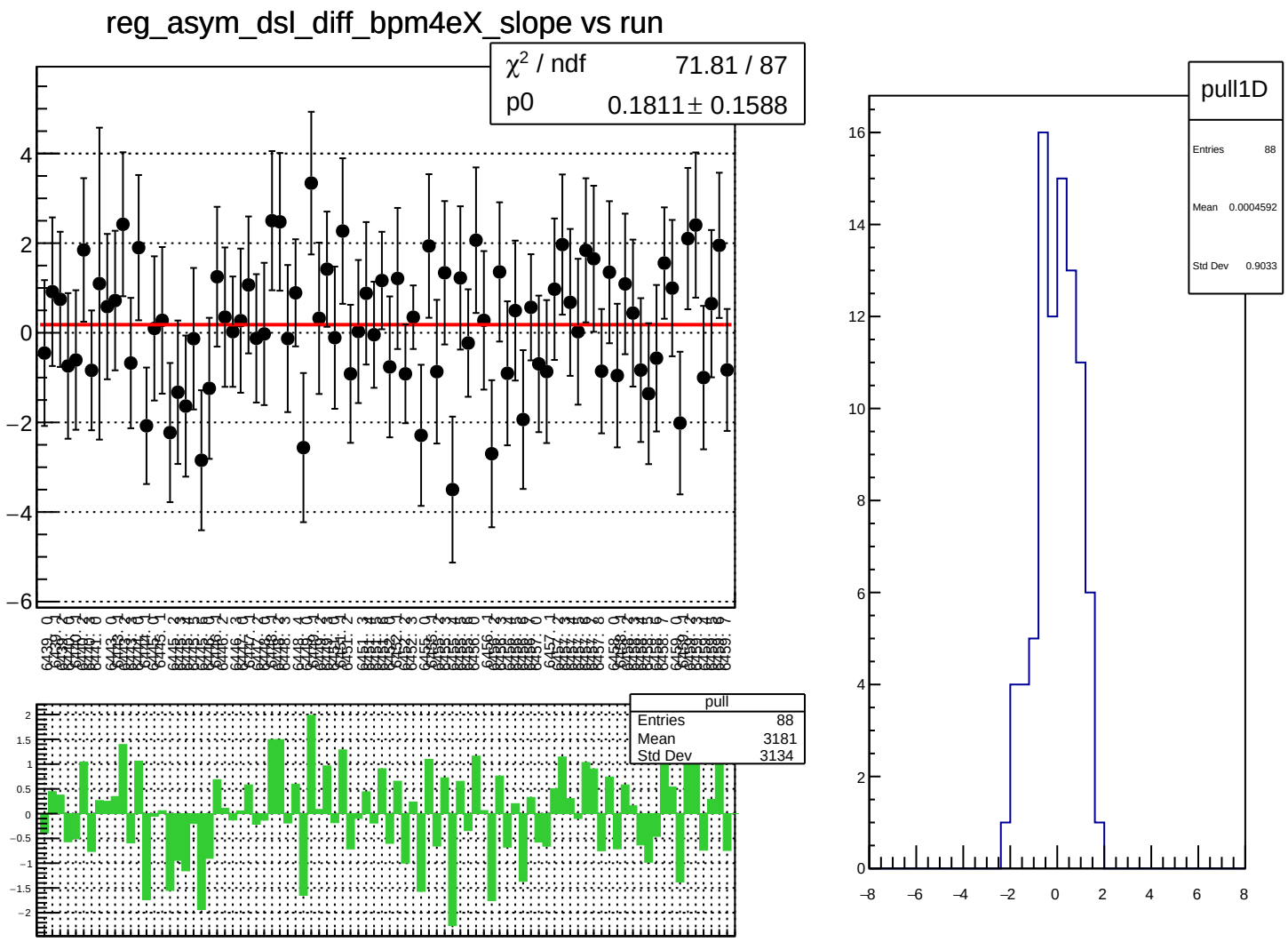

pull1D
Entries 88
Mean 0.02423
Std Dev 1.221

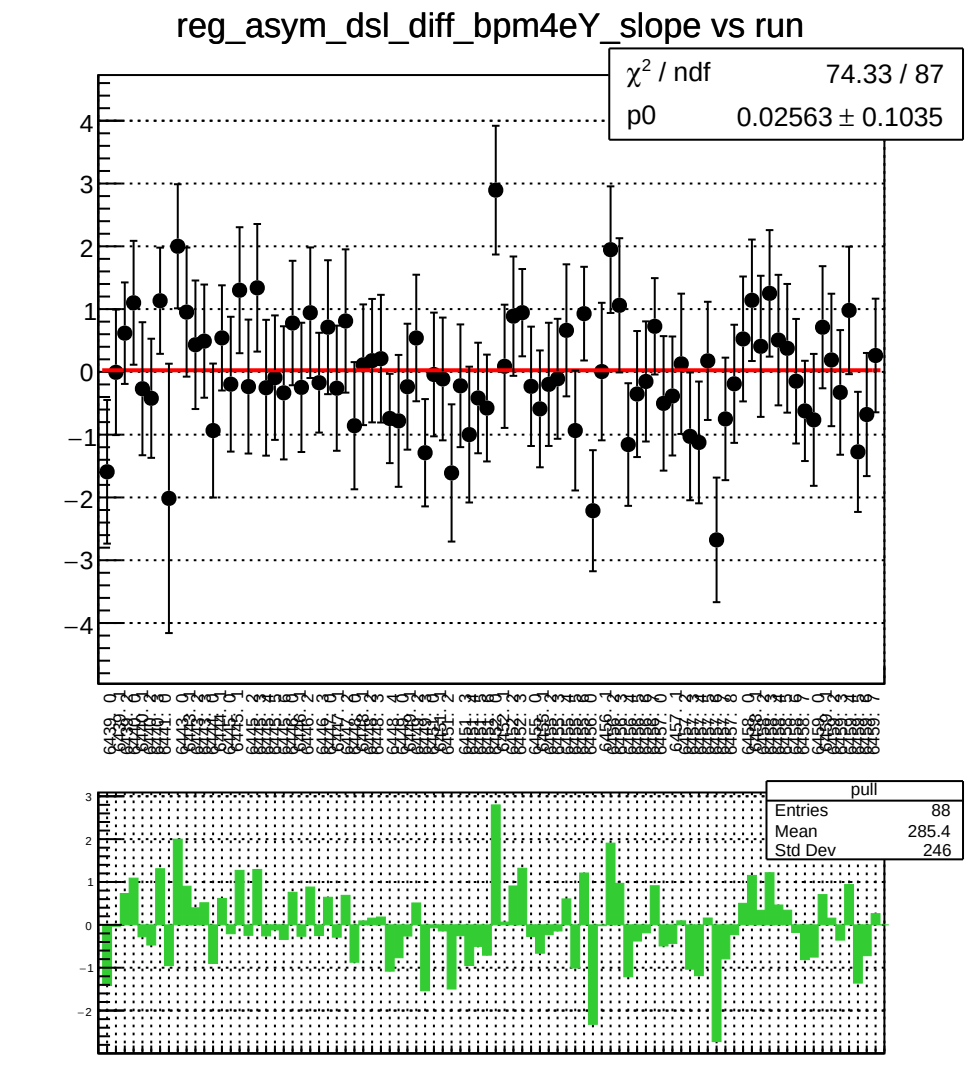

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 70.82 / 87
p0 −0.1647 ± 0.1462
pull
Entries 88
Mean 4984
Std Dev 4936

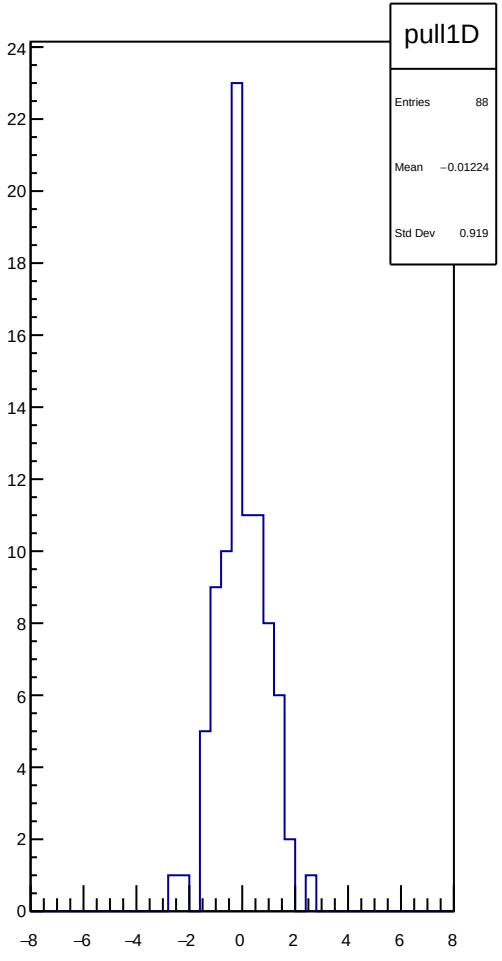

pull1D
Entries 88
Mean −0.0002777
Std Dev 0.8971

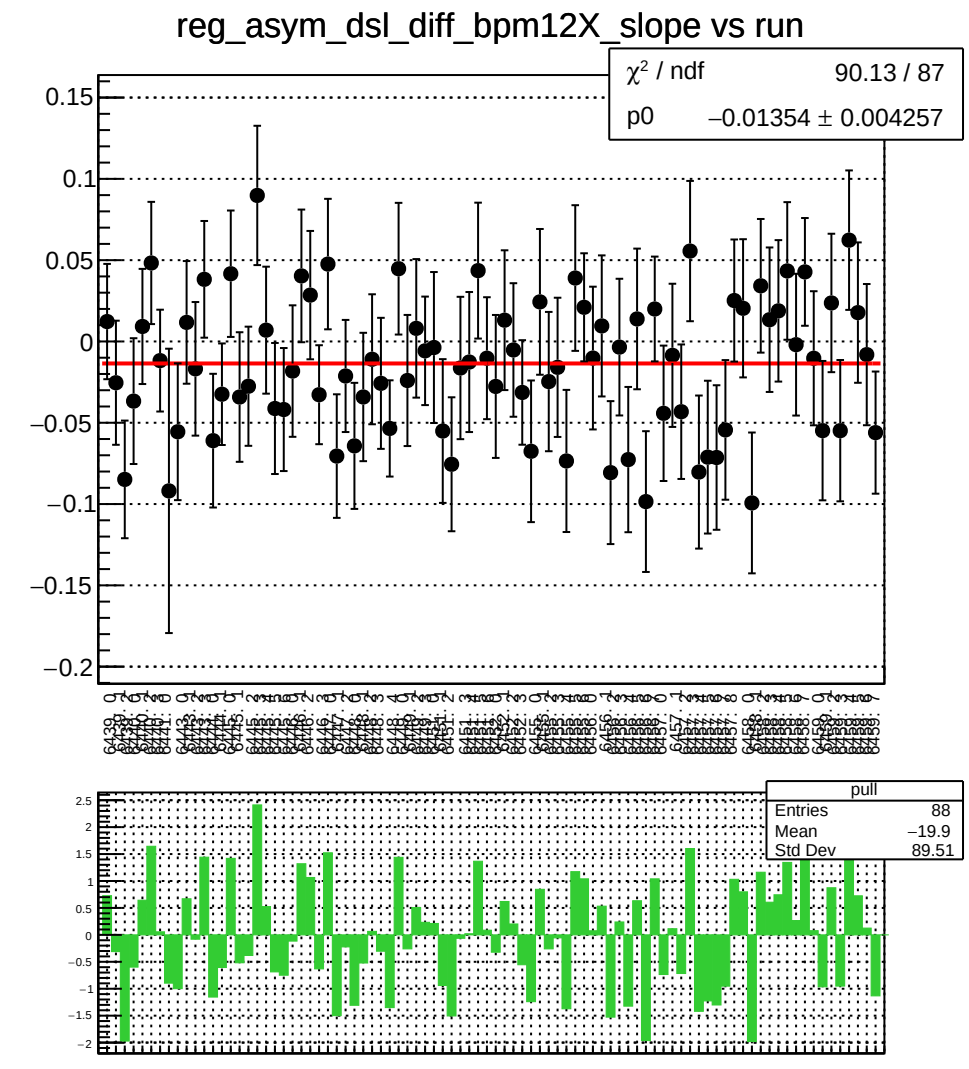

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 73.47 / 87
p0 −0.05145 ± 0.1032
pull
Entries 88
Mean 267.4
Std Dev 228.8

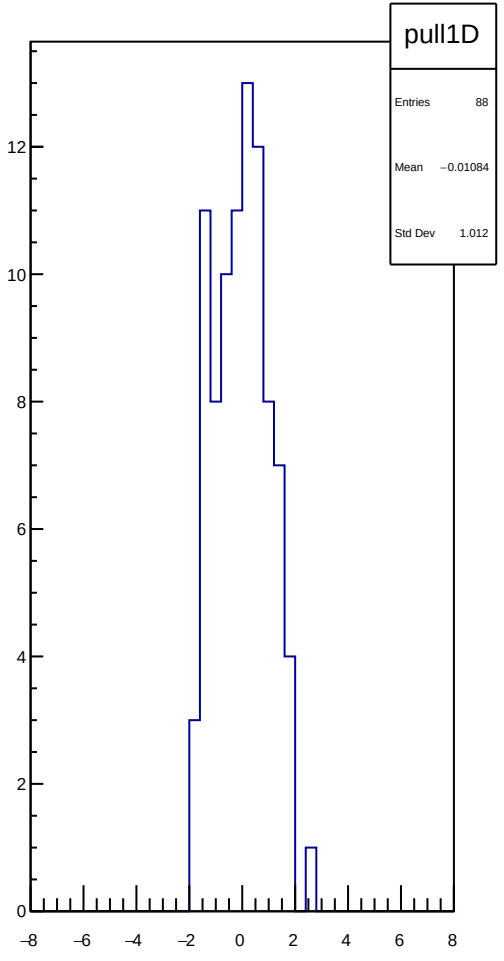

pull1D
Entries 88
Mean 0.01182
Std Dev 0.9137

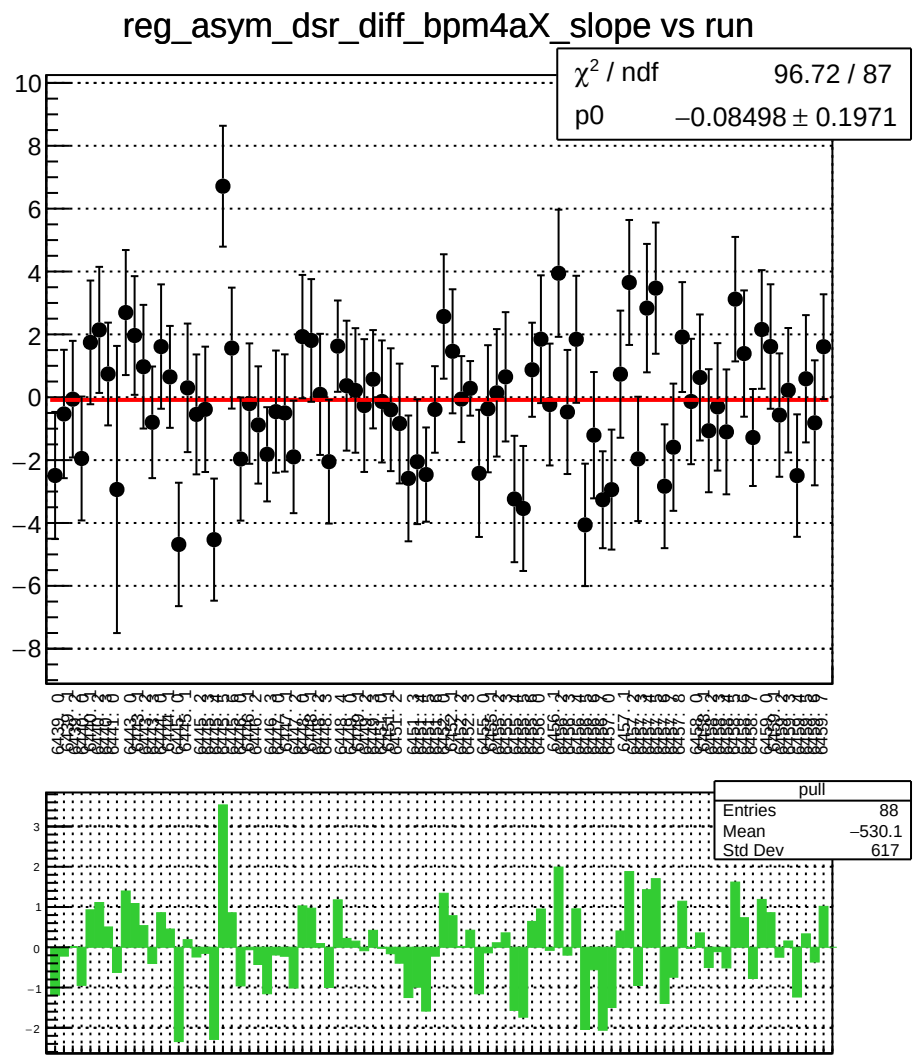

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 71.81 / 87
p0 0.1811 ± 0.1588
pull
Entries 88
Mean 3181
Std Dev 3134
pull1D
Entries 88
Mean 0.0004592
Std Dev 0.9033

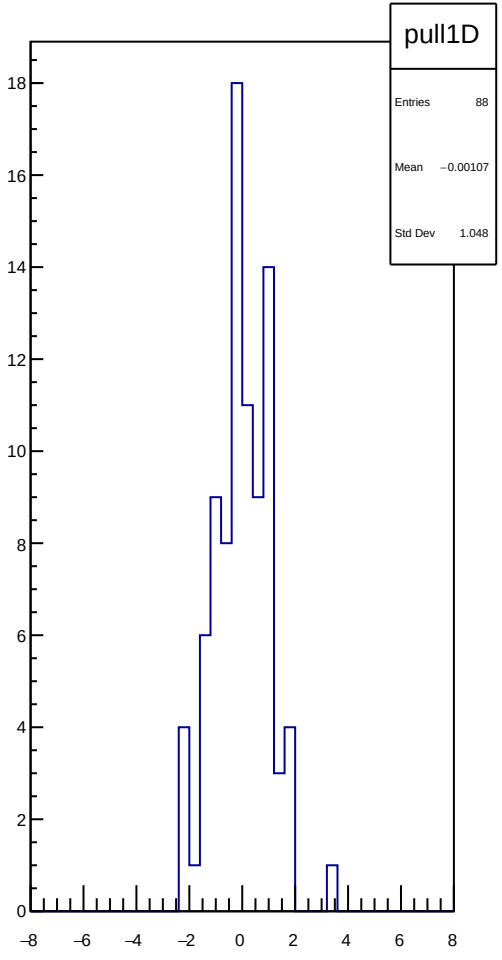

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 74.33 / 87
p0 0.02563 ± 0.1035
pull
Entries 88
Mean 285.4
Std Dev 246

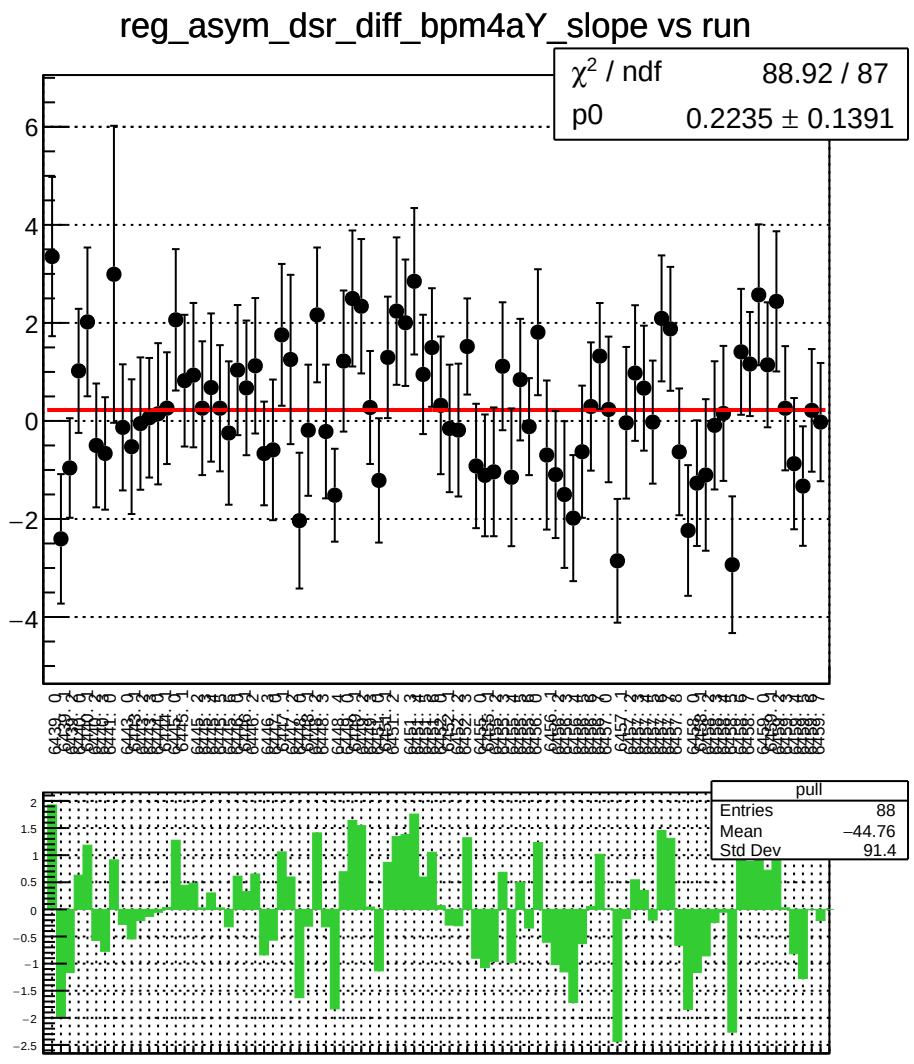

pull1D
Entries 88
Mean −0.01224
Std Dev 0.919

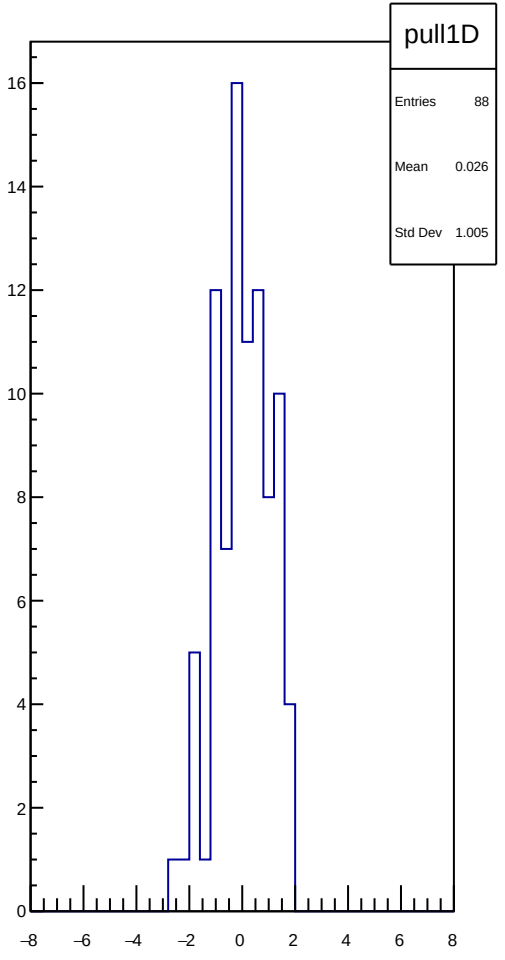

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 90.13 / 87
p0 −0.01354 ± 0.004257
pull
Entries 88
Mean −19.9
Std Dev 89.51

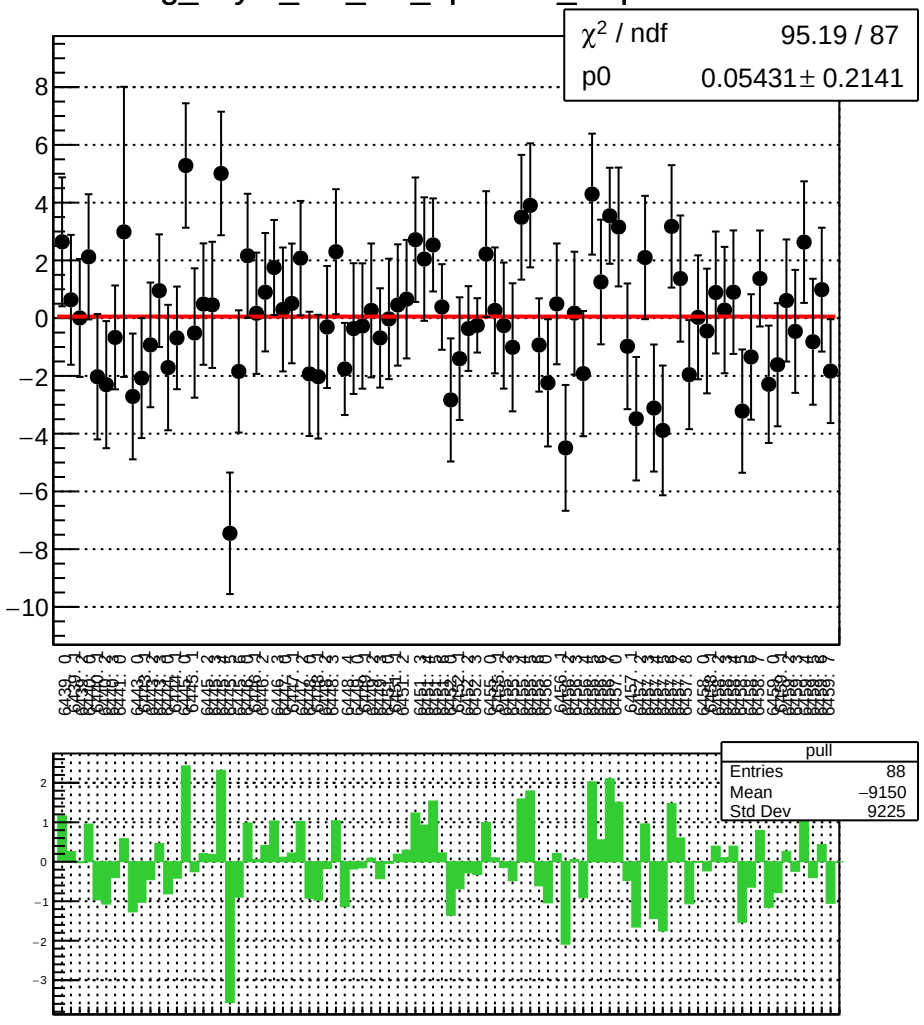

pull1D
Entries 88
Mean −0.01084
Std Dev 1.012

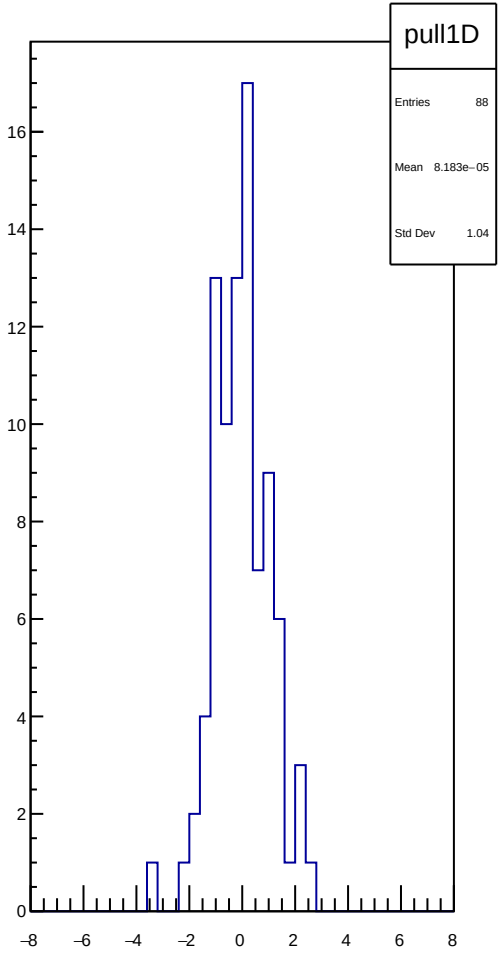

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 96.72 / 87
p0 −0.08498 ± 0.1971
pull
Entries 88
Mean −530.1
Std Dev 617

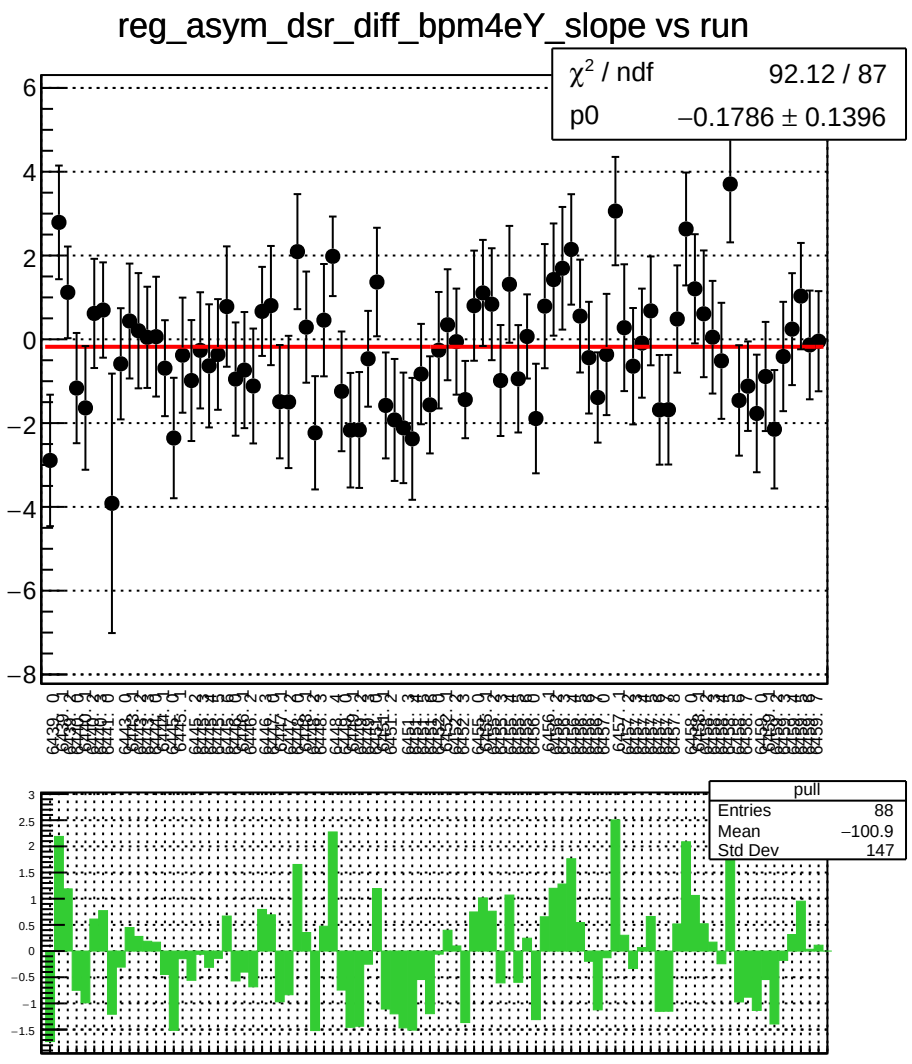

pull1D
Entries 88
Mean −0.00107
Std Dev 1.048

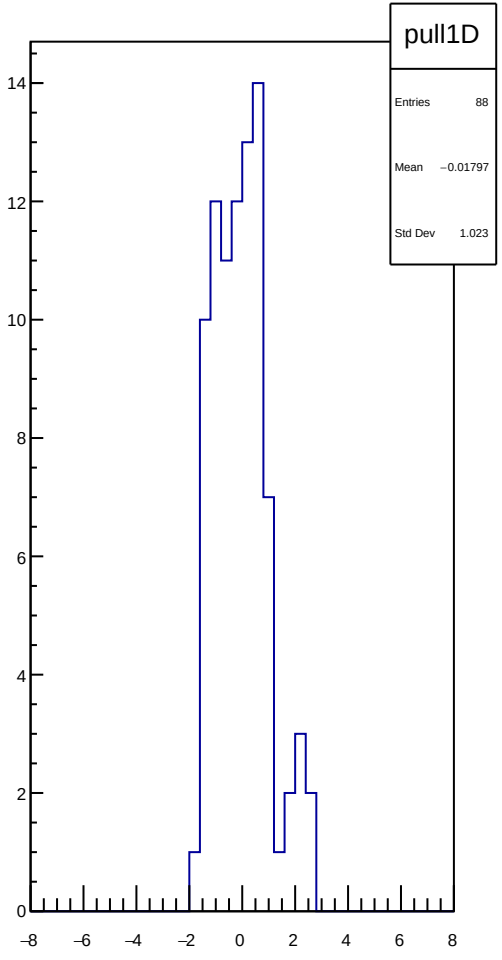

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 88.92 / 87
p0 0.2235 ± 0.1391
pull
Entries 88
Mean −44.76
Std Dev 91.4

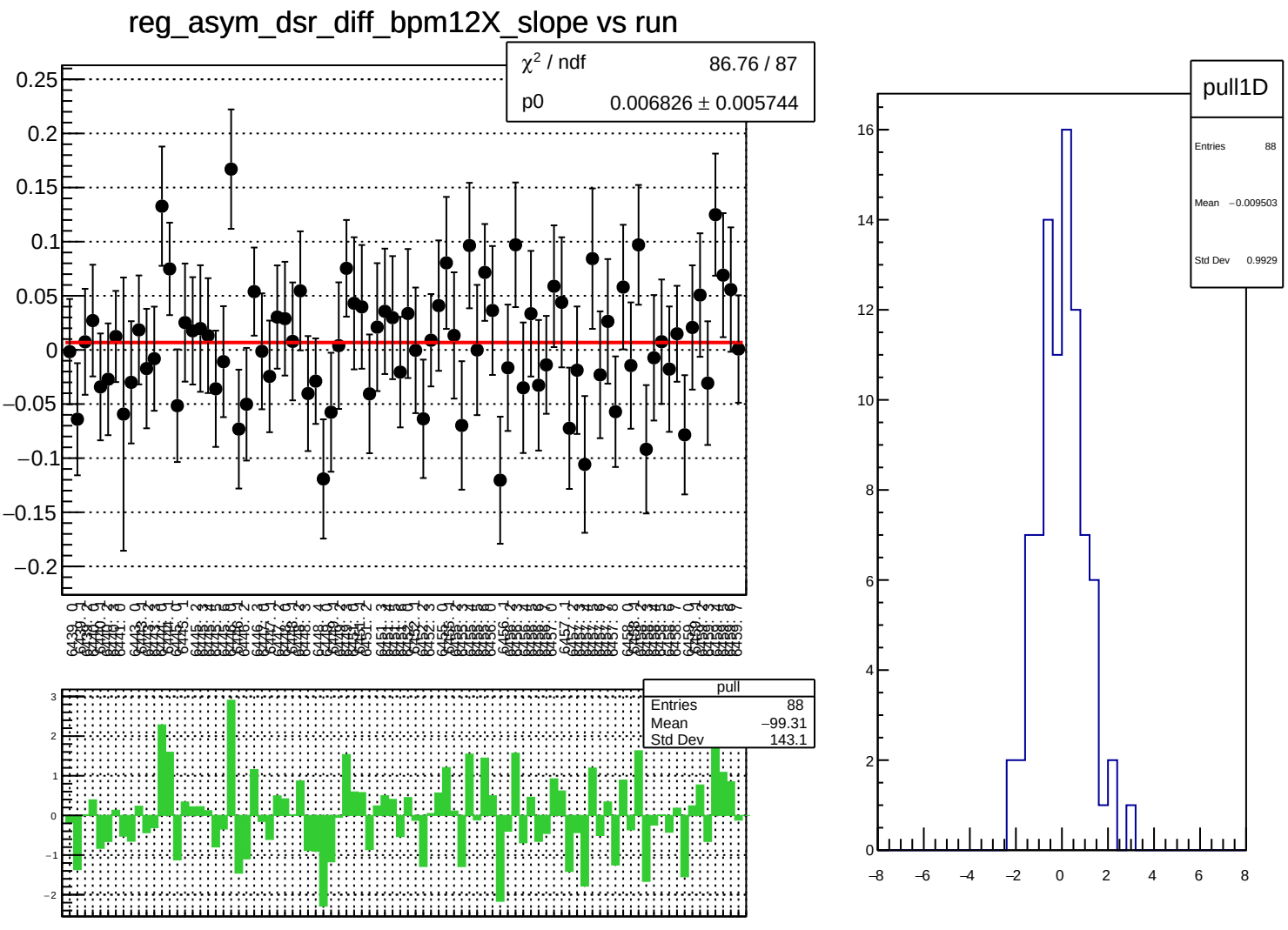

pull1D
Entries 88
Mean 0.026
Std Dev 1.005

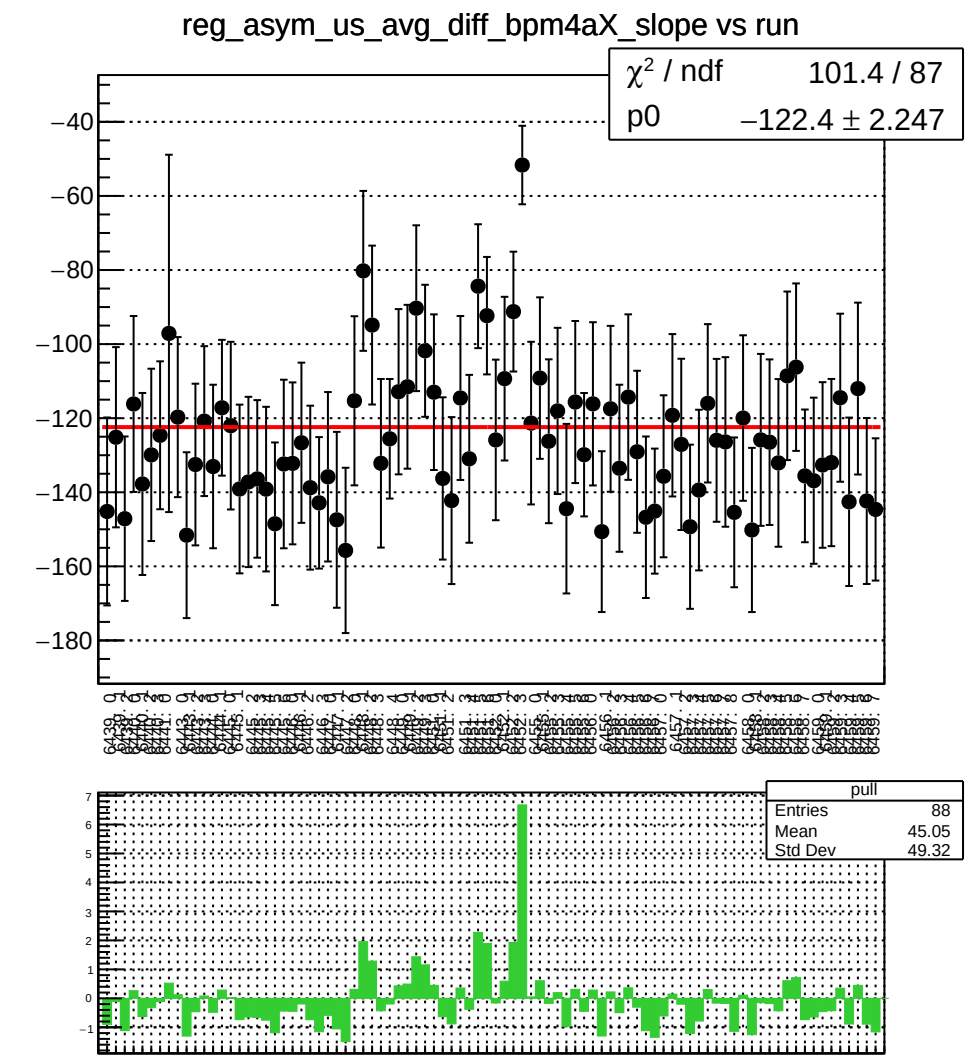

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 95.19 / 87
p0 0.05431 ± 0.2141
pull
Entries 88
Mean −9150
Std Dev 9225

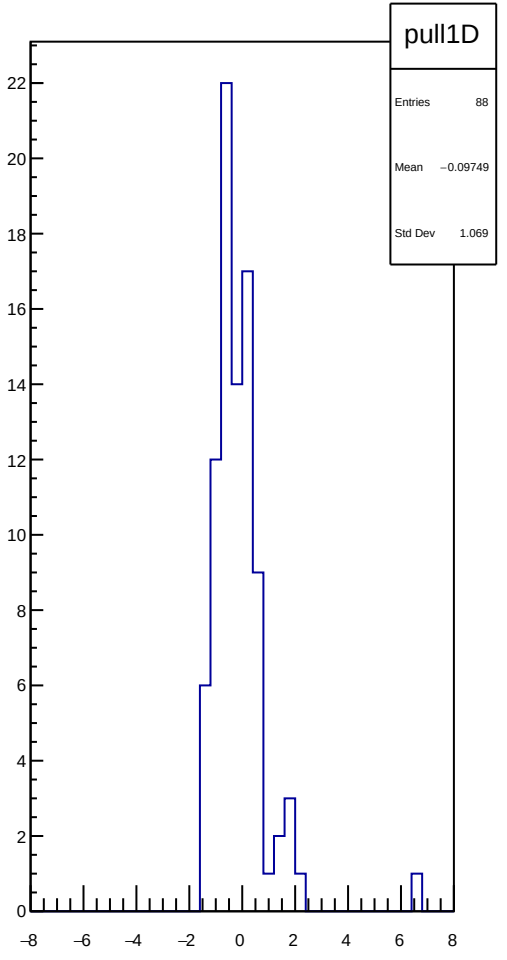

pull1D
Entries 88
Mean 8.183e−05
Std Dev 1.04

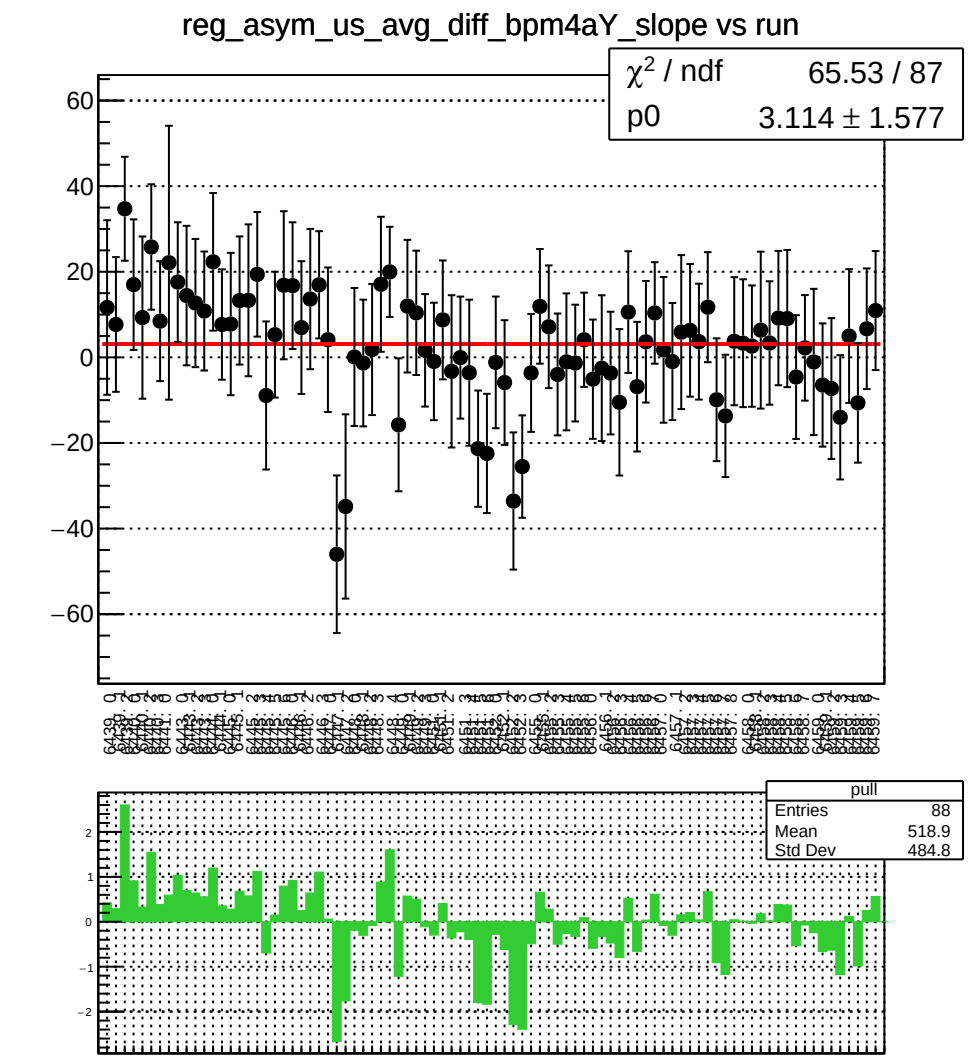

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 92.12 / 87
p0 −0.1786 ± 0.1396
pull
Entries 88
Mean −100.9
Std Dev 147

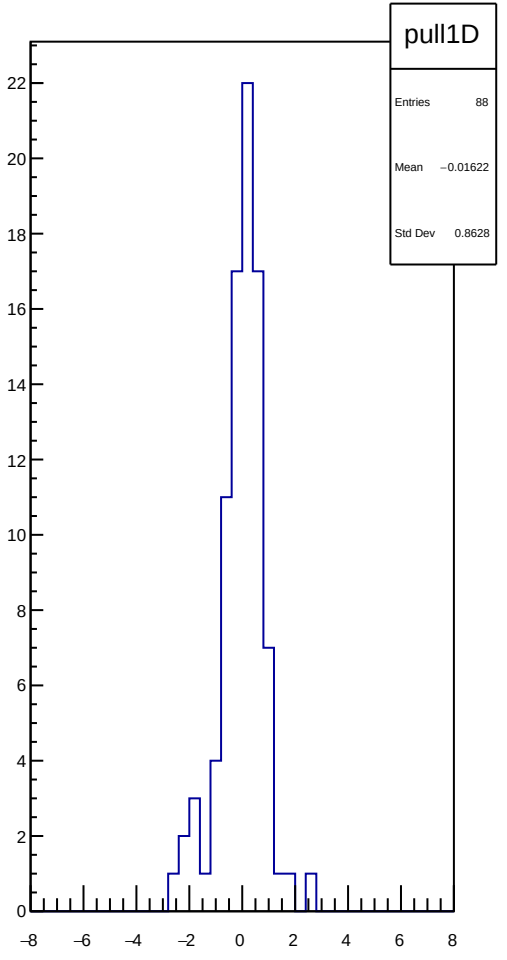

pull1D
Entries 88
Mean −0.01797
Std Dev 1.023

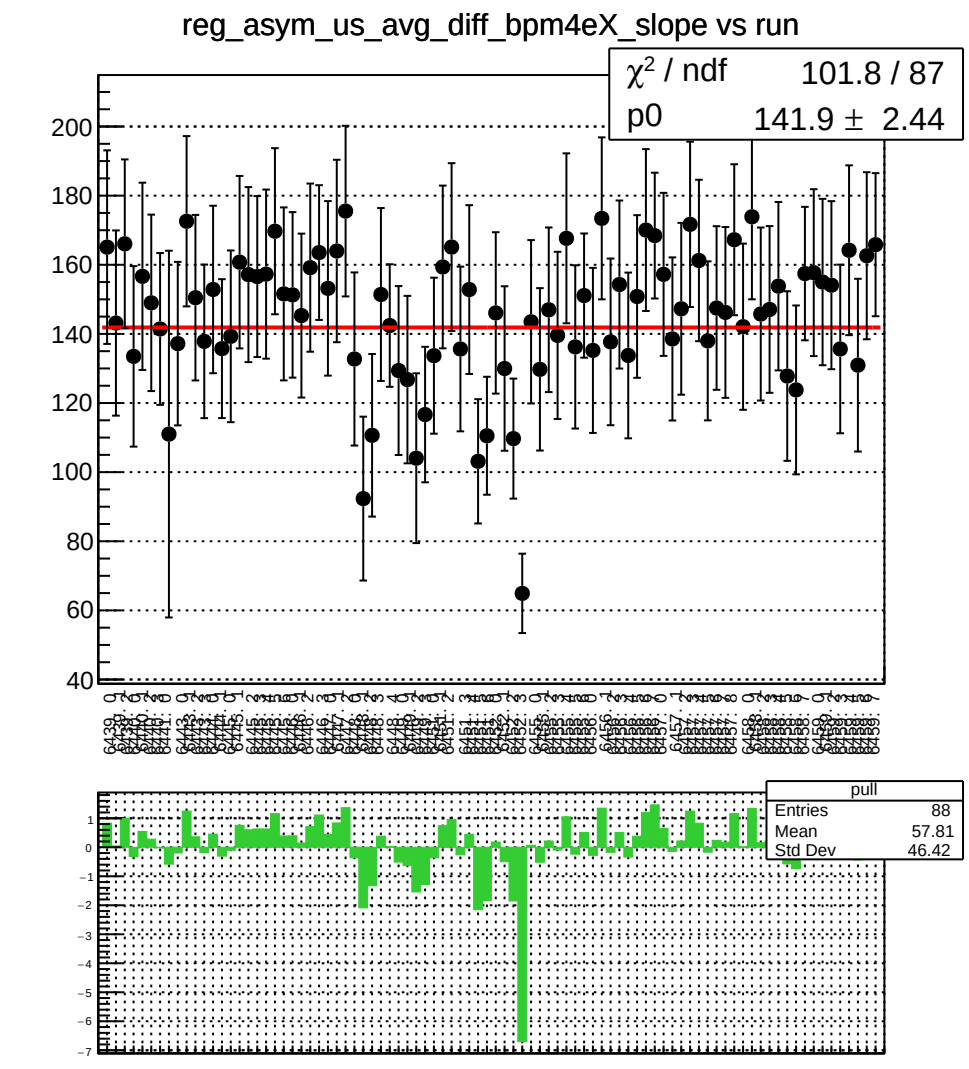

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 86.76 / 87
p0 0.006826 ± 0.005744
pull
Entries 88
Mean −99.31
Std Dev 143.1
pull1D
Entries 88
Mean −0.009503
Std Dev 0.9929

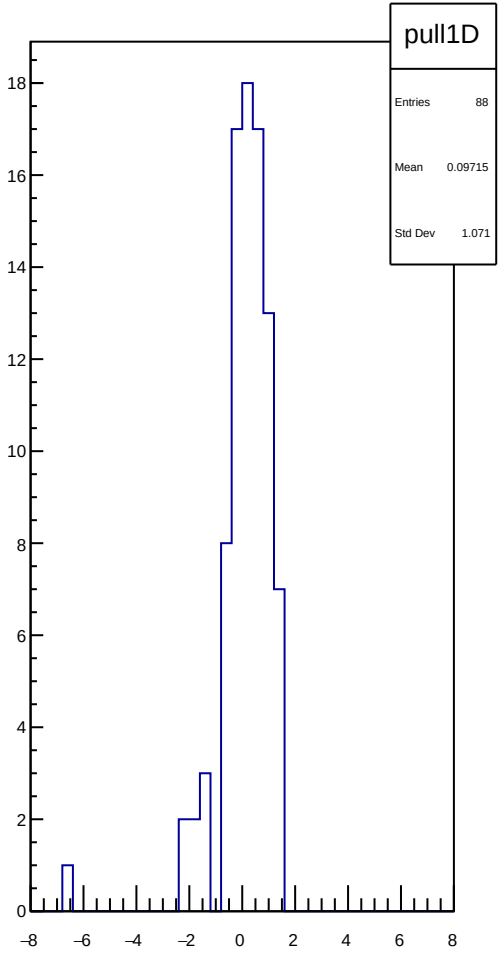

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 101.4 / 87
p0 −122.4 ± 2.247
−40
−60
−80
−100
−120
−140
−160
−180
pull
Entries 88
Mean 45.05
Std Dev 49.32
7
6
5
4
3
2
1
0
−1

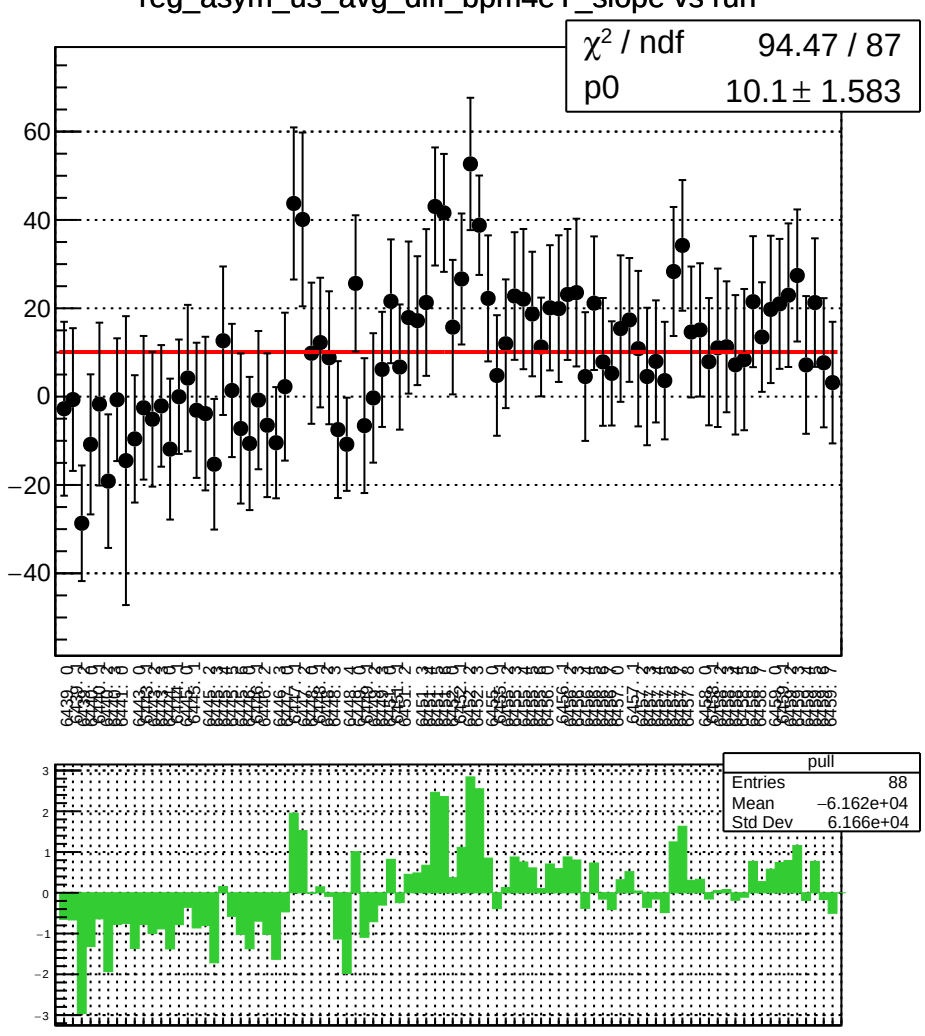

pull1D
Entries 88
Mean −0.09749
Std Dev 1.069
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

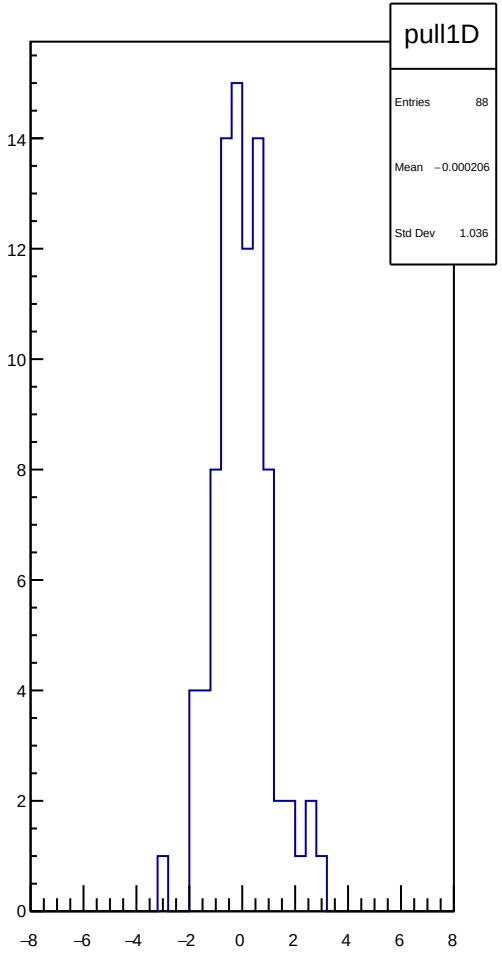

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 65.53 / 87
p0 3.114 ± 1.577
pull
Entries 88
Mean 518.9
Std Dev 484.8

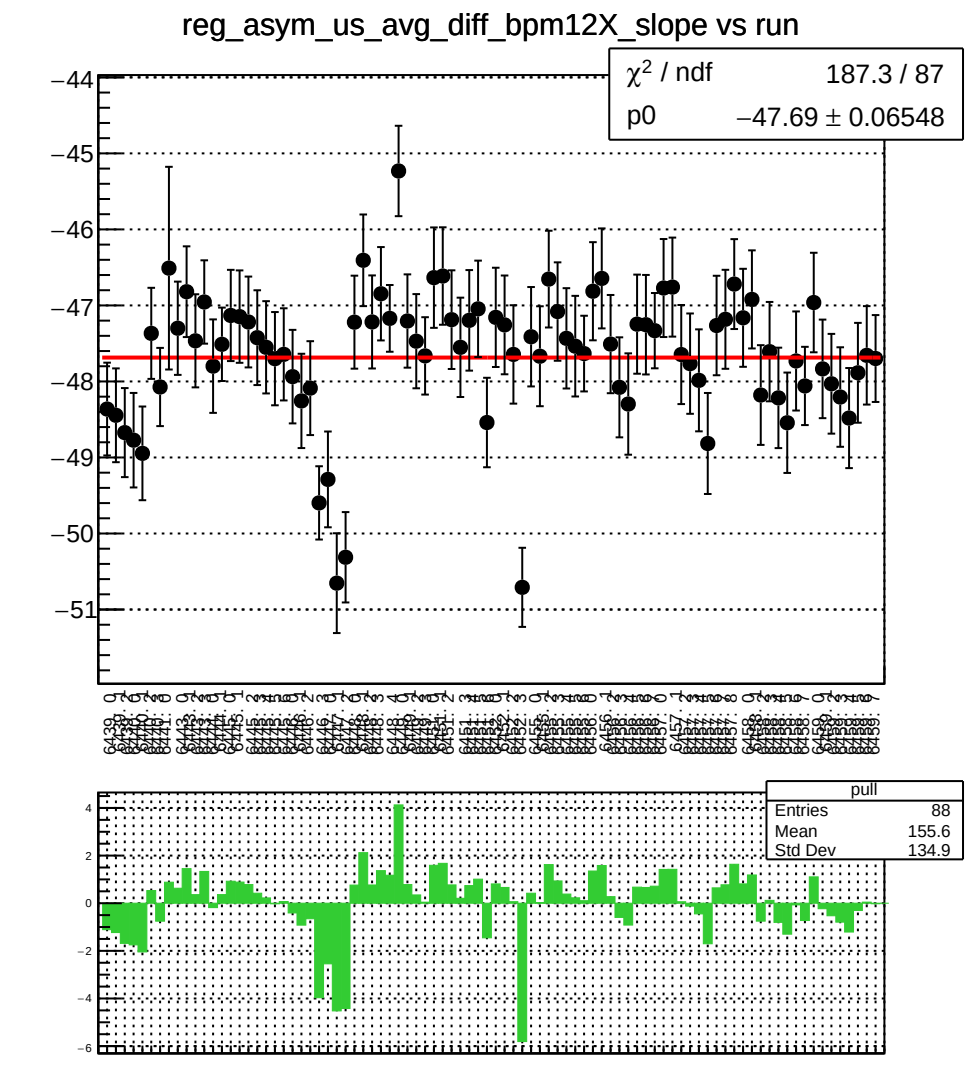

pull1D
Entries 88
Mean −0.01622
Std Dev 0.8628

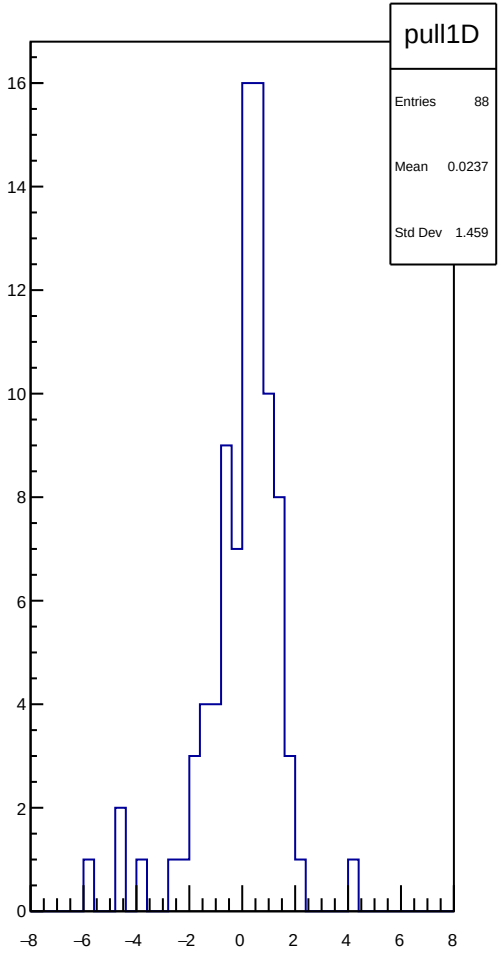

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 101.8 / 87
p0 141.9 ± 2.44
pull
Entries 88
Mean 57.81
Std Dev 46.42

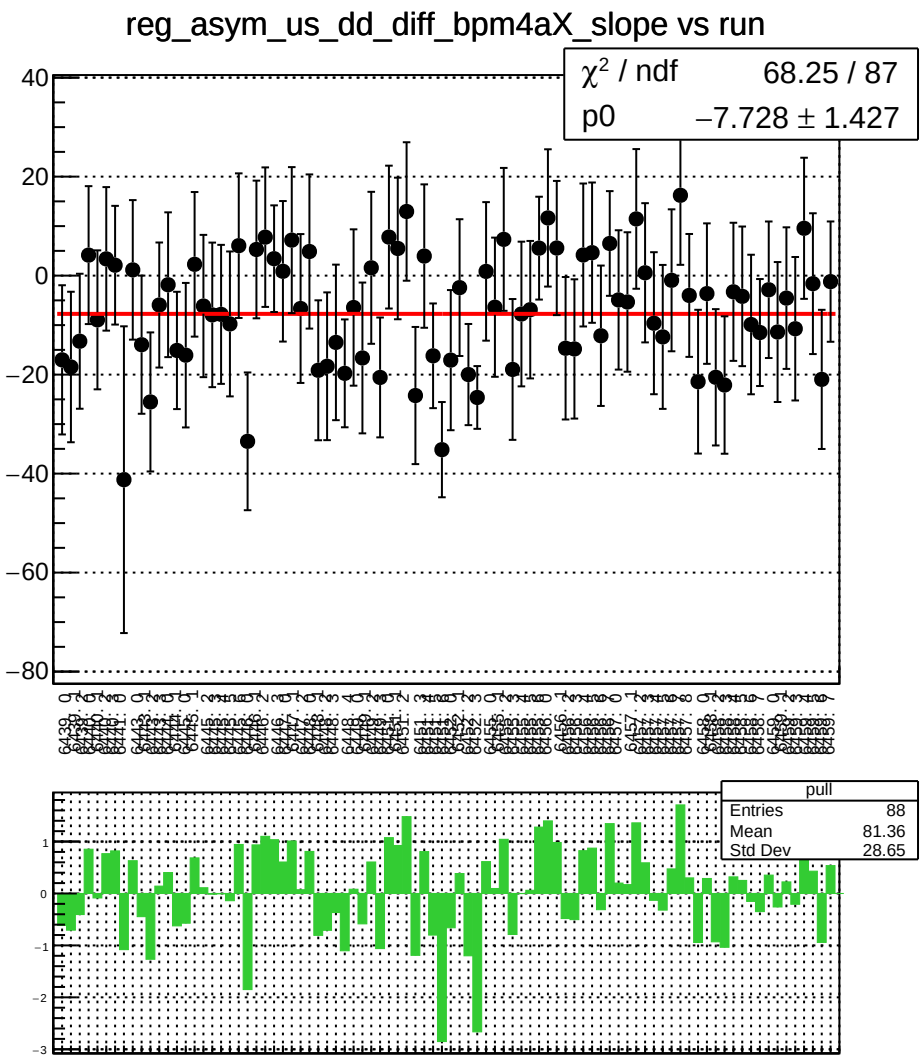

pull1D
Entries 88
Mean 0.09715
Std Dev 1.071

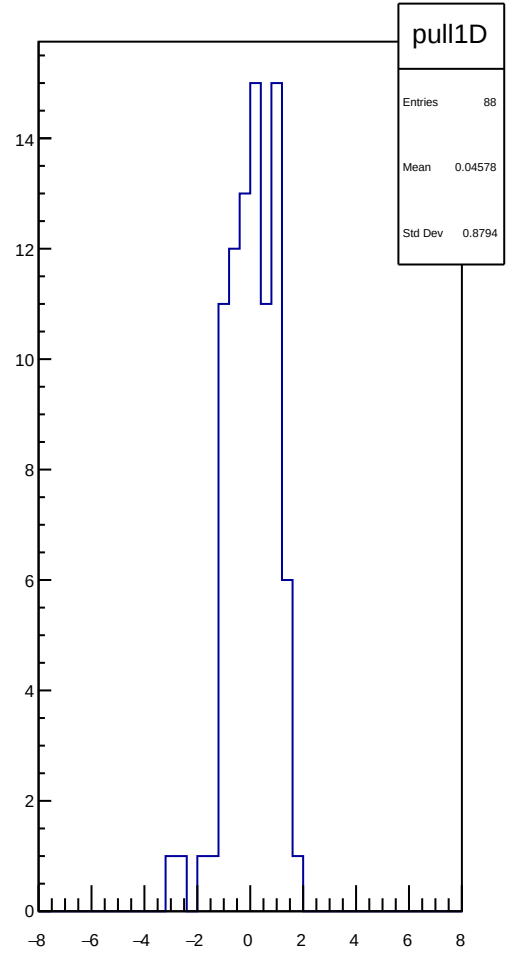

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 94.47 / 87
p0 10.1 ± 1.583
pull
Entries 88
Mean −6.162e+04
Std Dev 6.166e+04

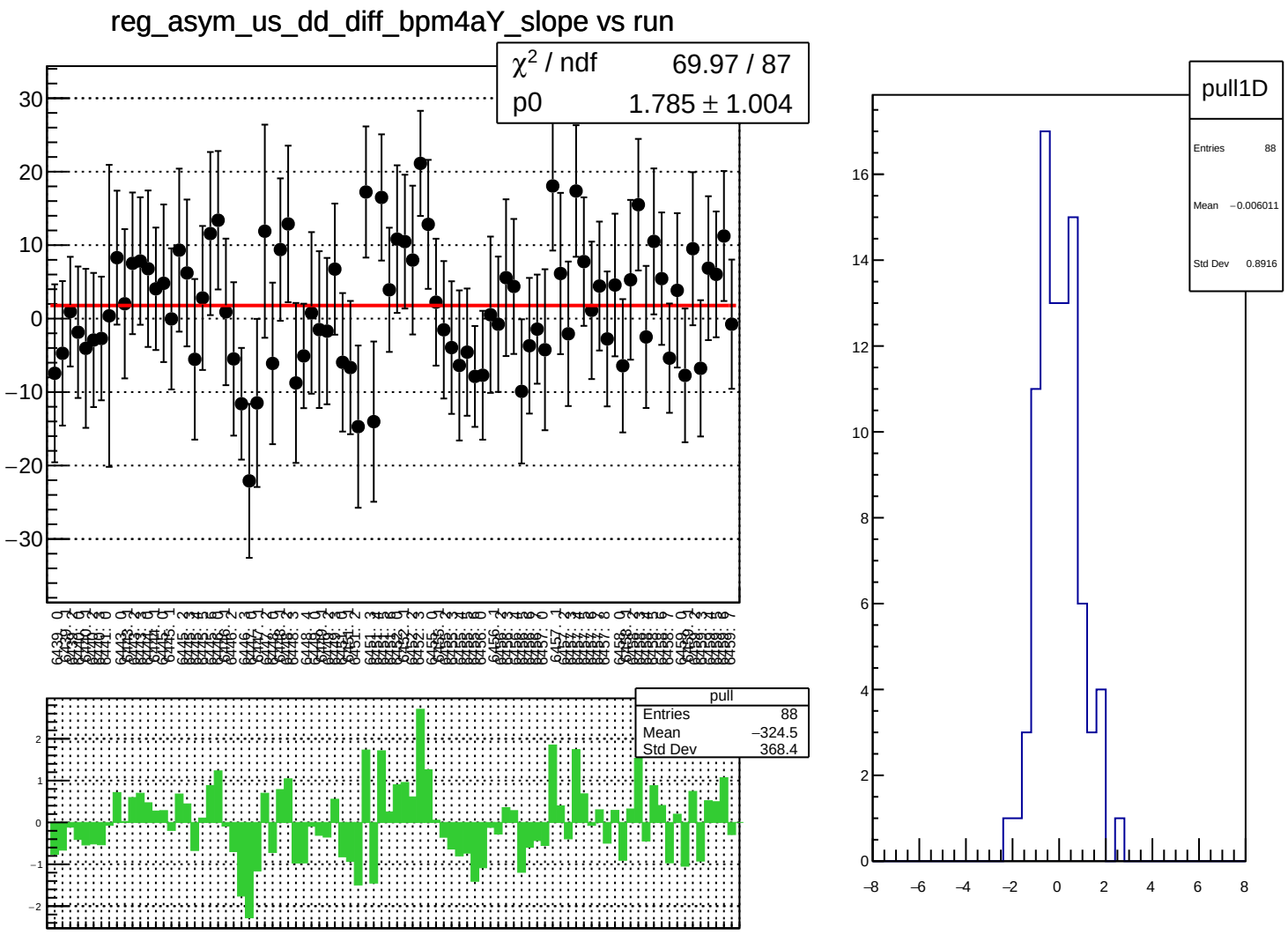

pull1D
Entries 88
Mean −0.000206
Std Dev 1.036

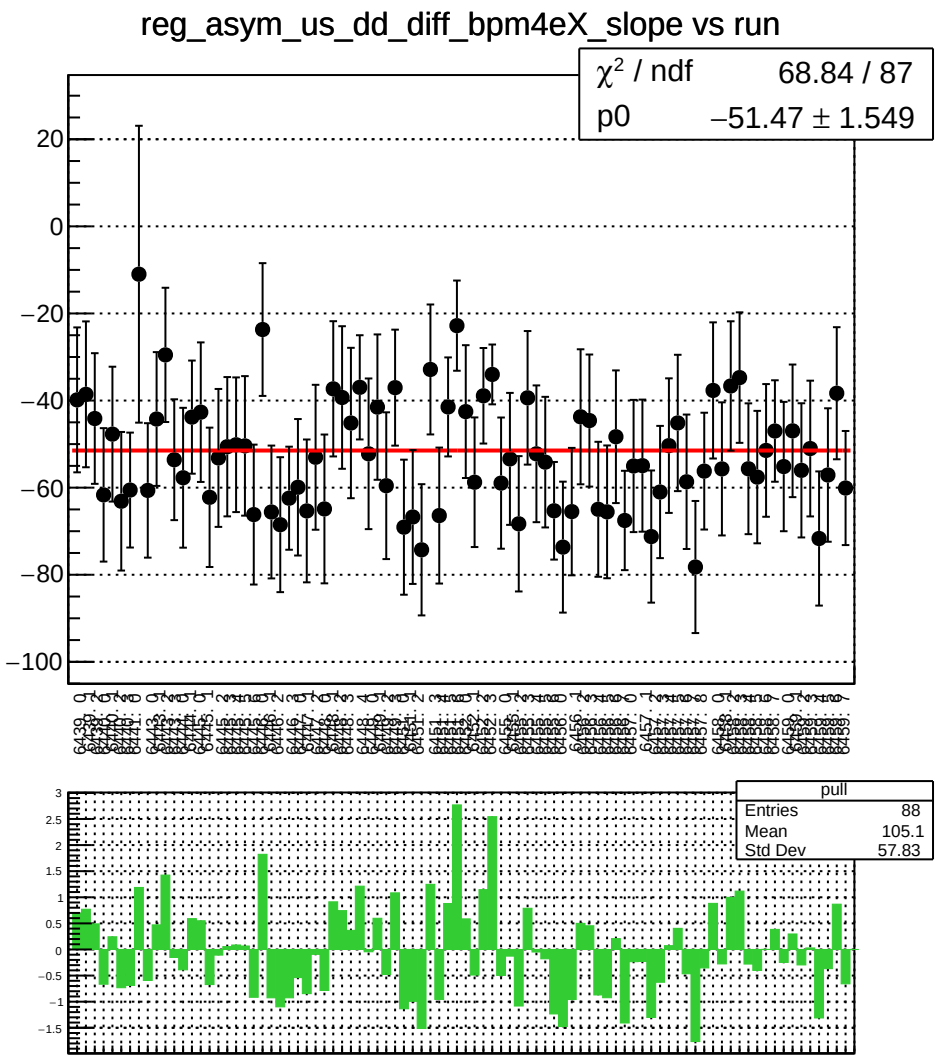

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 187.3 / 87
p0 −47.69 ± 0.06548
pull
Entries 88
Mean 155.6
Std Dev 134.9

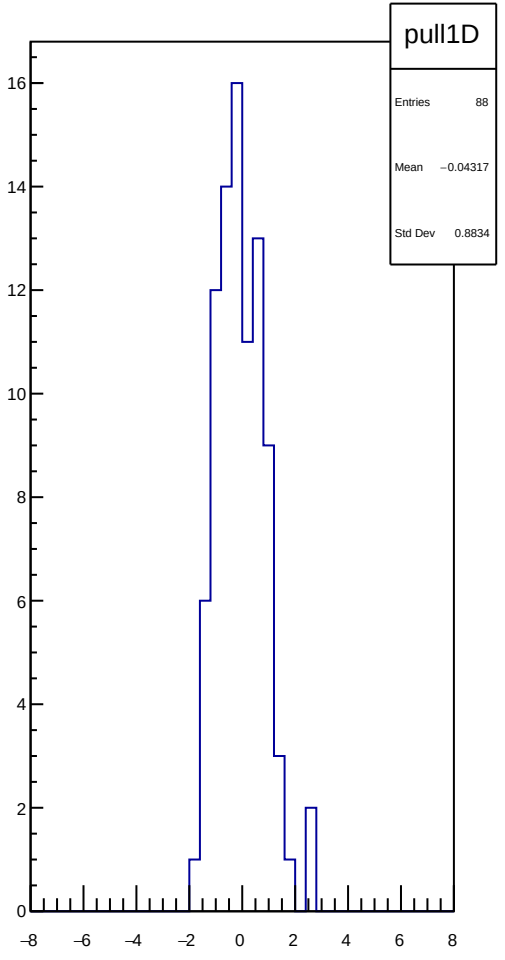

pull1D
Entries 88
Mean 0.0237
Std Dev 1.459

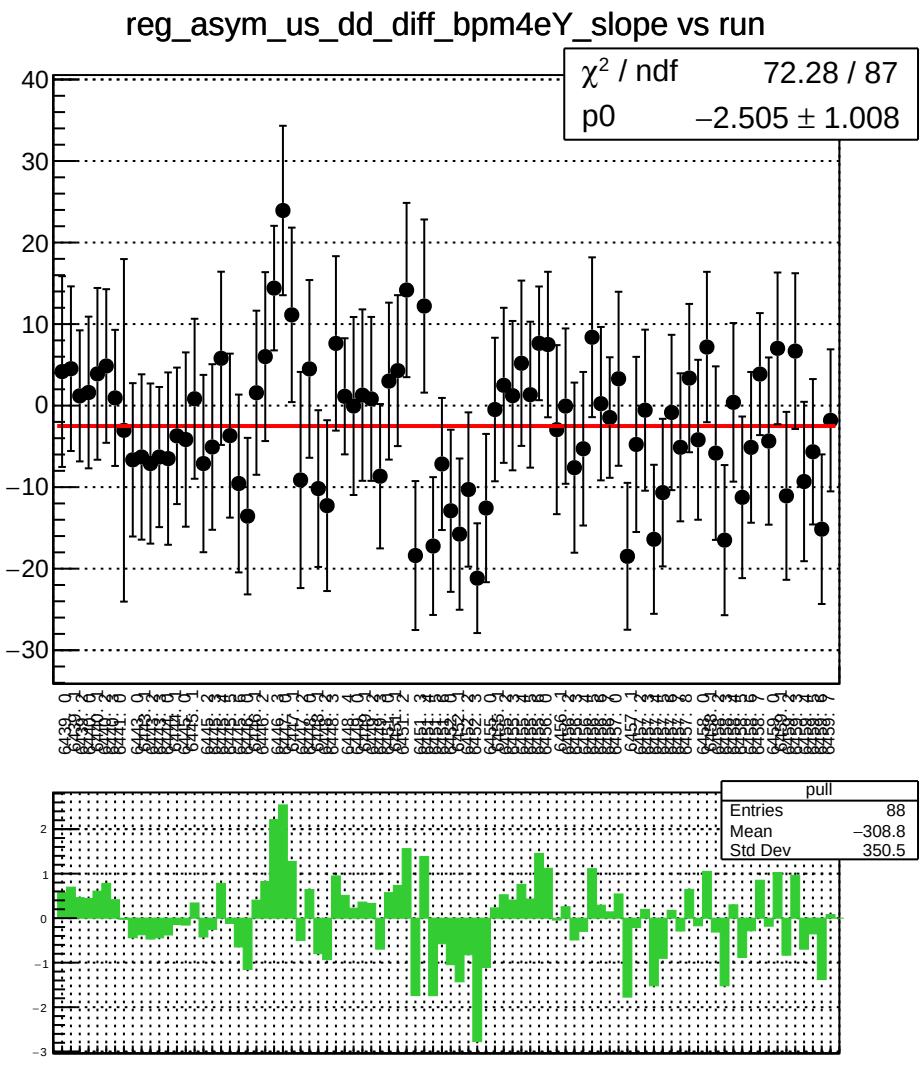

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 68.25 / 87
p0 −7.728 ± 1.427
pull
Entries 88
Mean 81.36
Std Dev 28.65

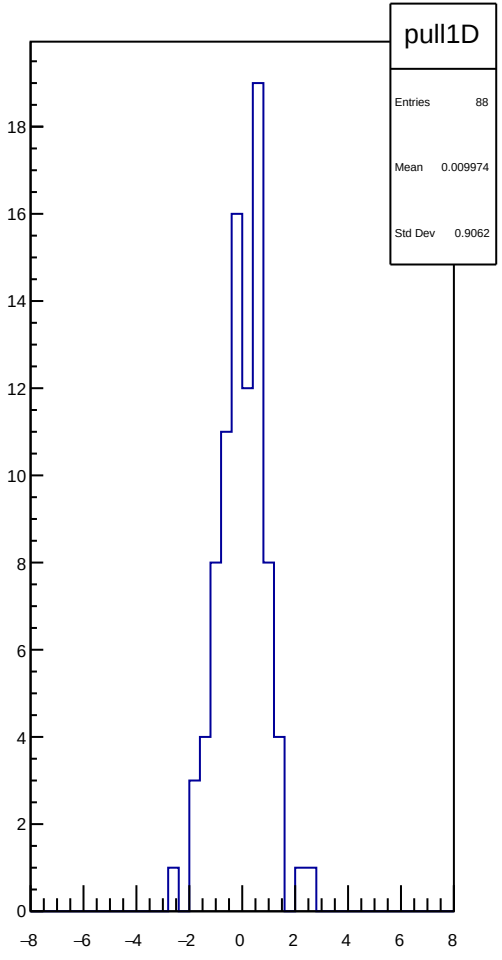

pull1D
Entries 88
Mean 0.04578
Std Dev 0.8794

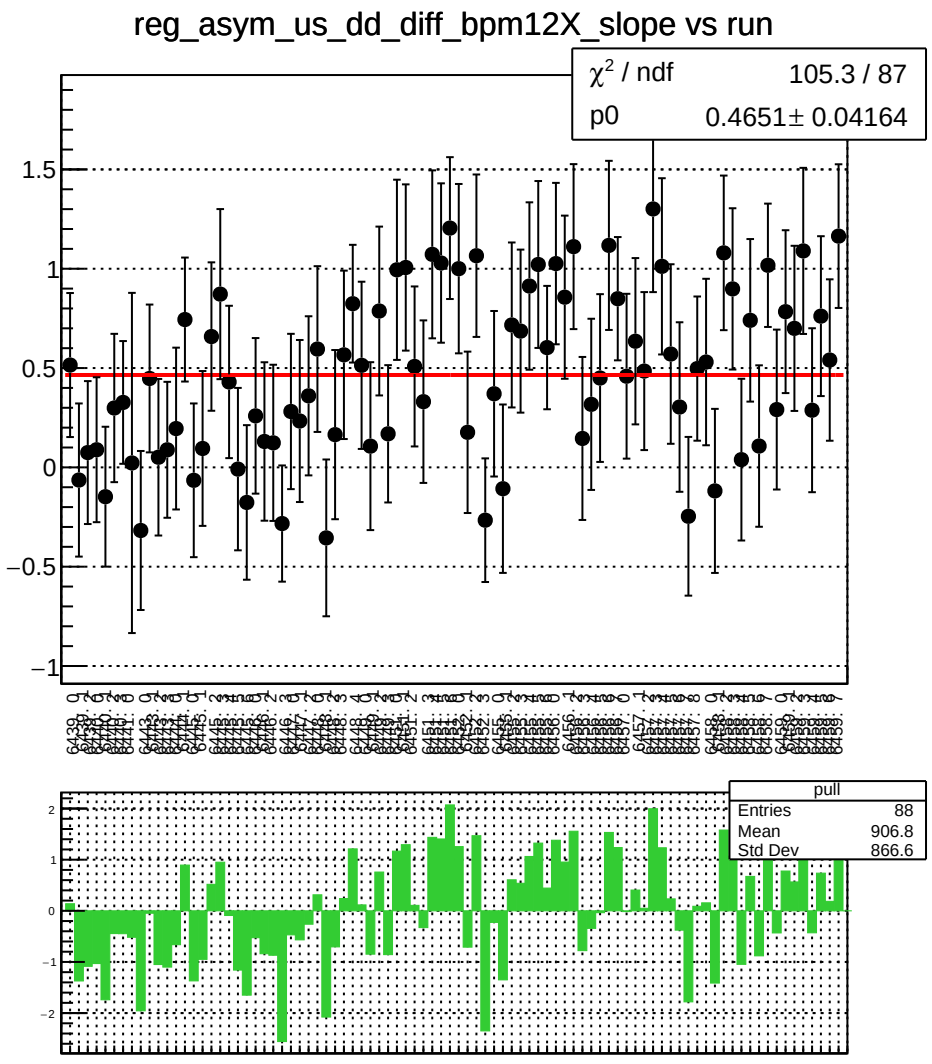

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.97 / 87
p0 1.785 ± 1.004
pull
Entries 88
Mean −324.5
Std Dev 368.4
pull1D
Entries 88
Mean −0.006011
Std Dev 0.8916

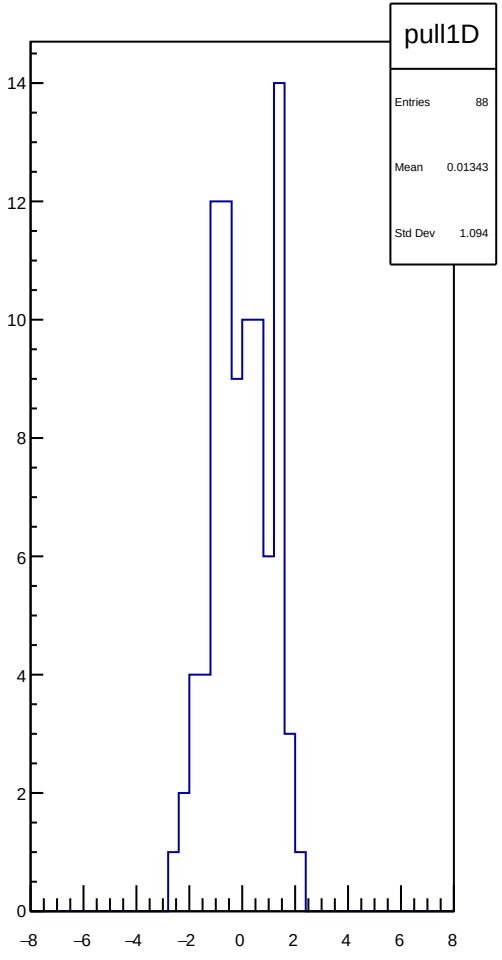

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.84 / 87
p0 −51.47 ± 1.549
pull
Entries 88
Mean 105.1
Std Dev 57.83

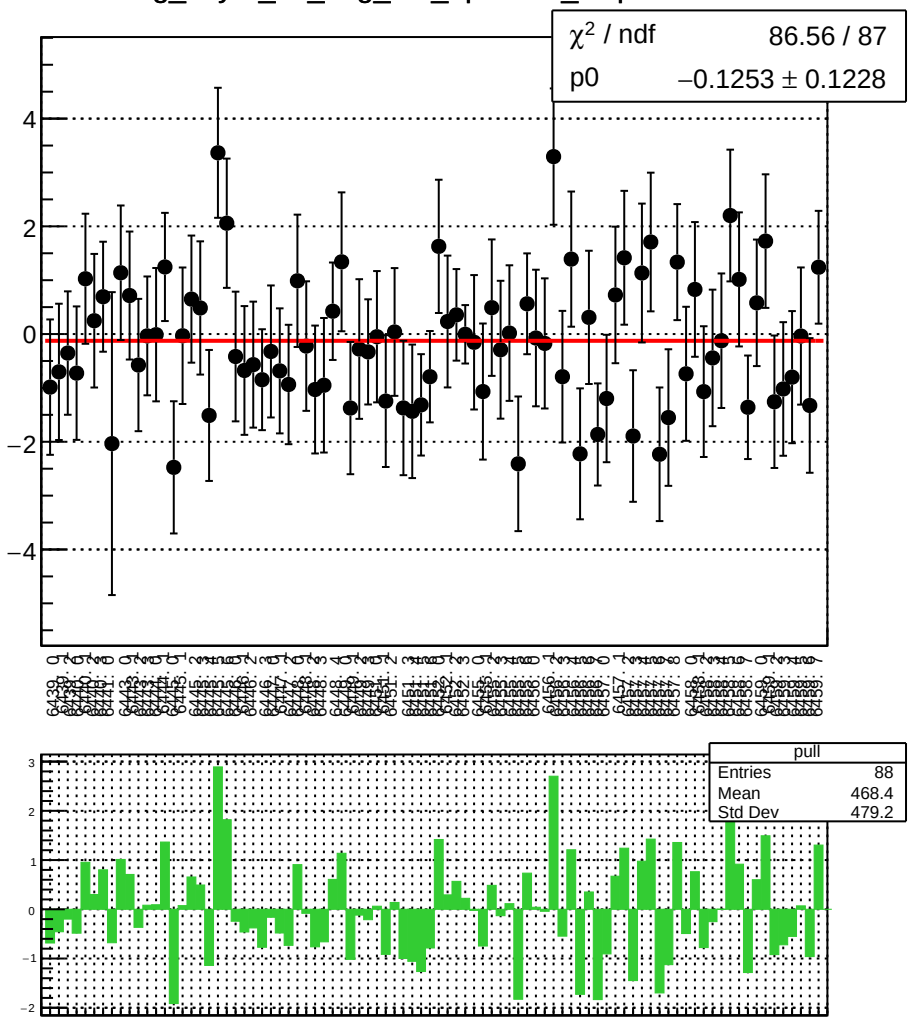

pull1D
Entries 88
Mean −0.04317
Std Dev 0.8834

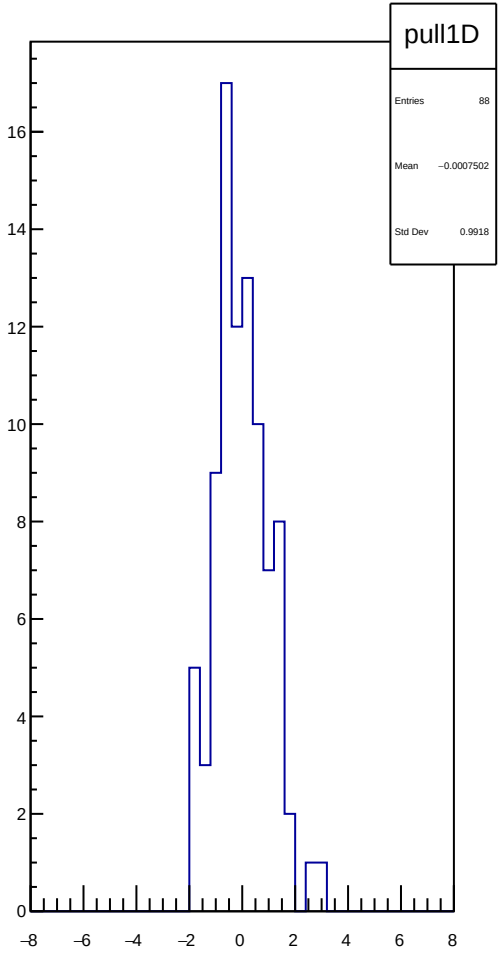

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.28 / 87
p0 −2.505 ± 1.008
pull
Entries 88
Mean −308.8
Std Dev 350.5

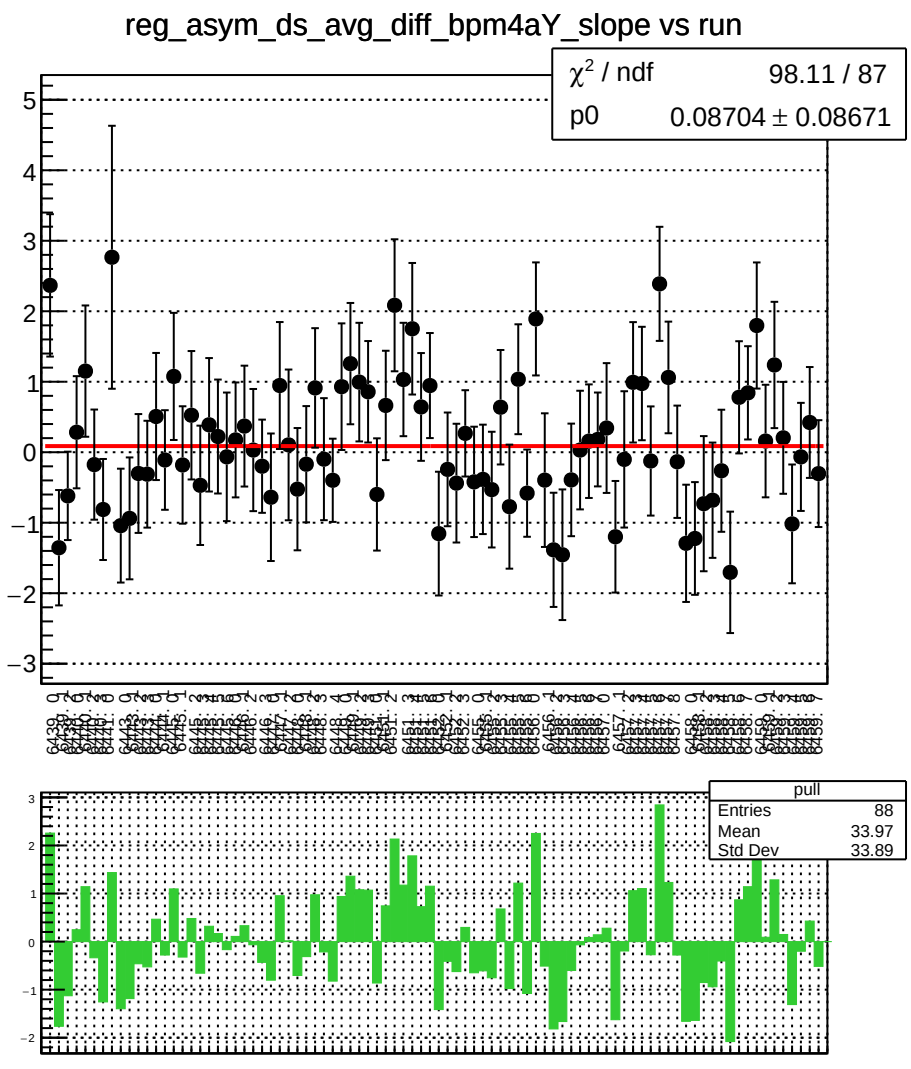

pull1D
Entries 88
Mean 0.009974
Std Dev 0.9062

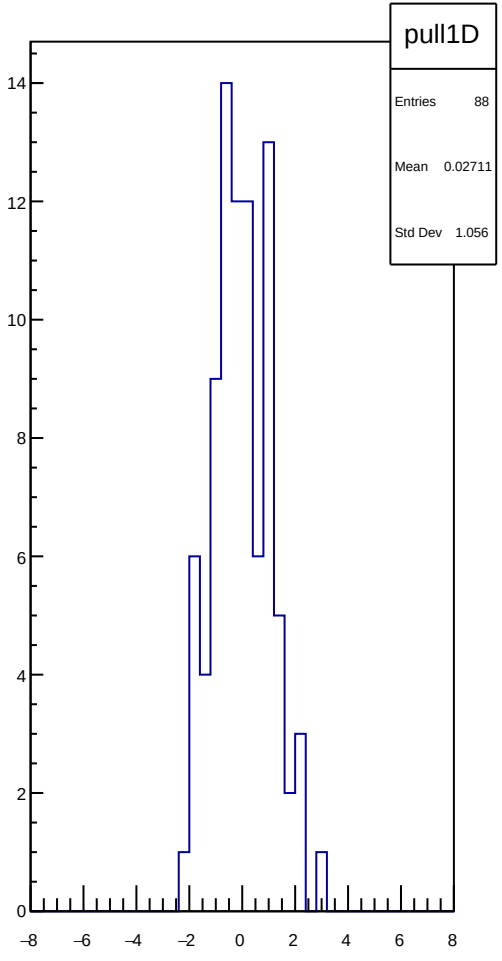

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 105.3 / 87
p0 0.4651± 0.04164
pull
Entries 88
Mean 906.8
Std Dev 866.6

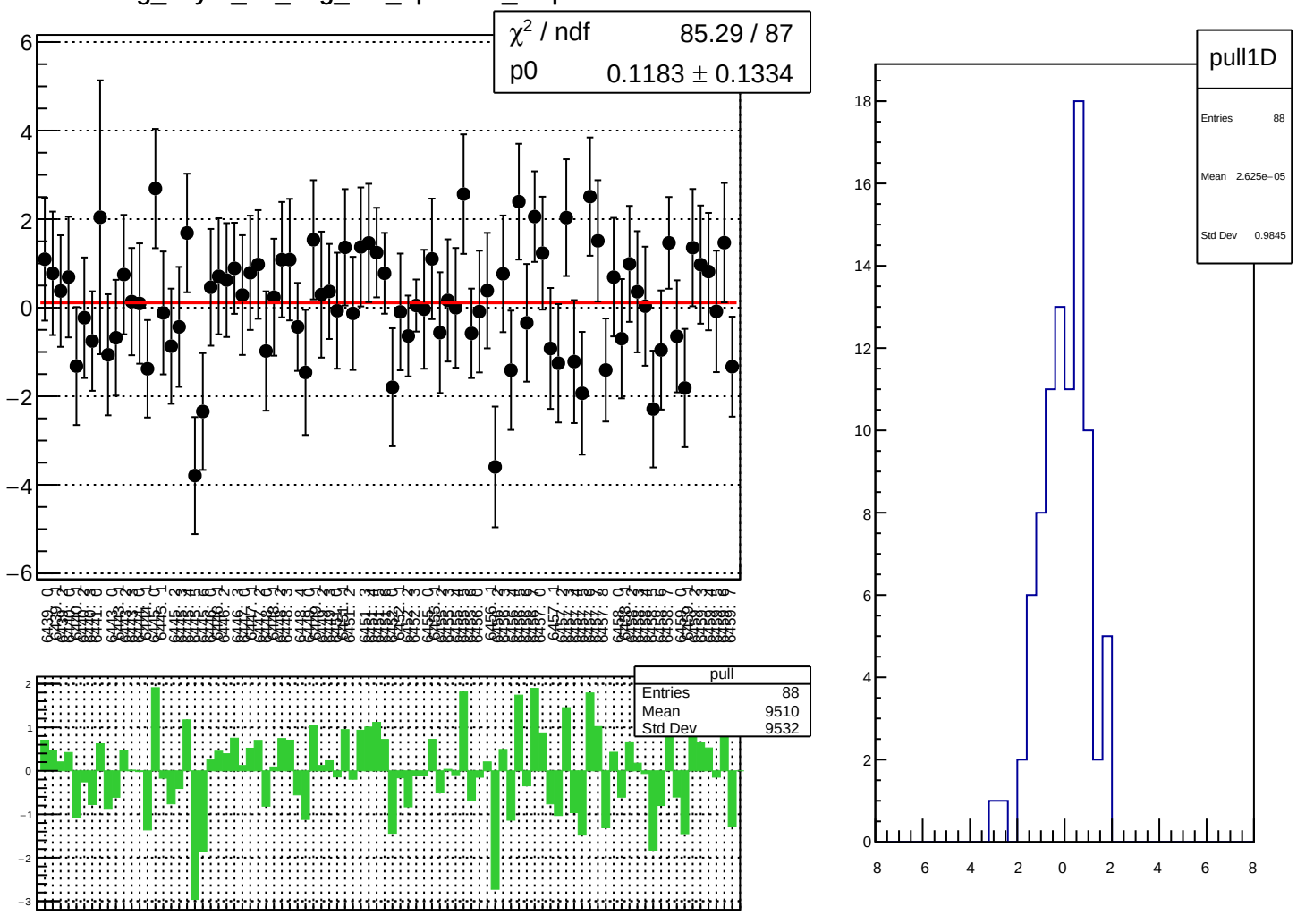

pull1D
Entries 88
Mean 0.01343
Std Dev 1.094

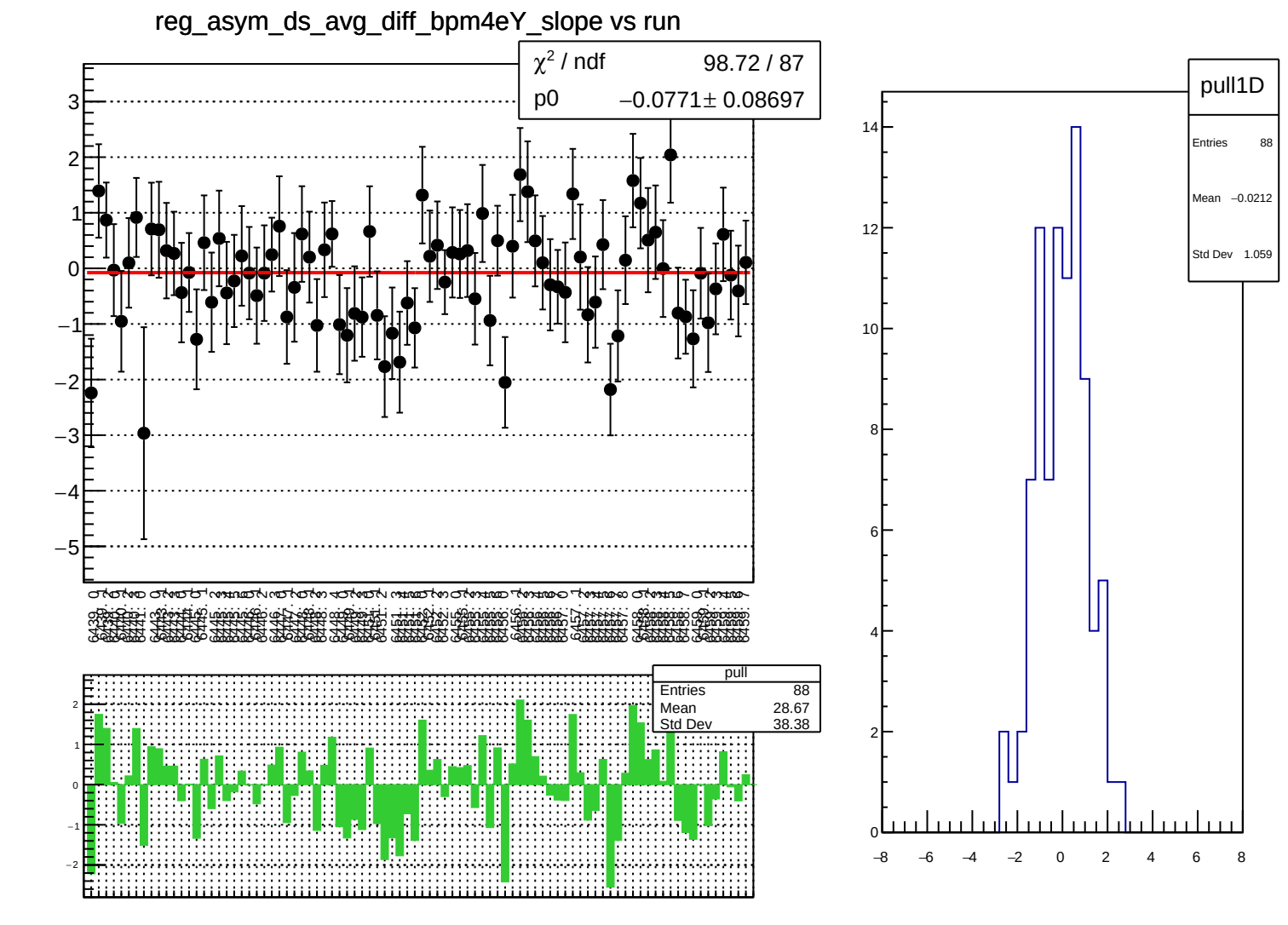

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 86.56 / 87
p0 −0.1253 ± 0.1228
pull
Entries 88
Mean 468.4
Std Dev 479.2

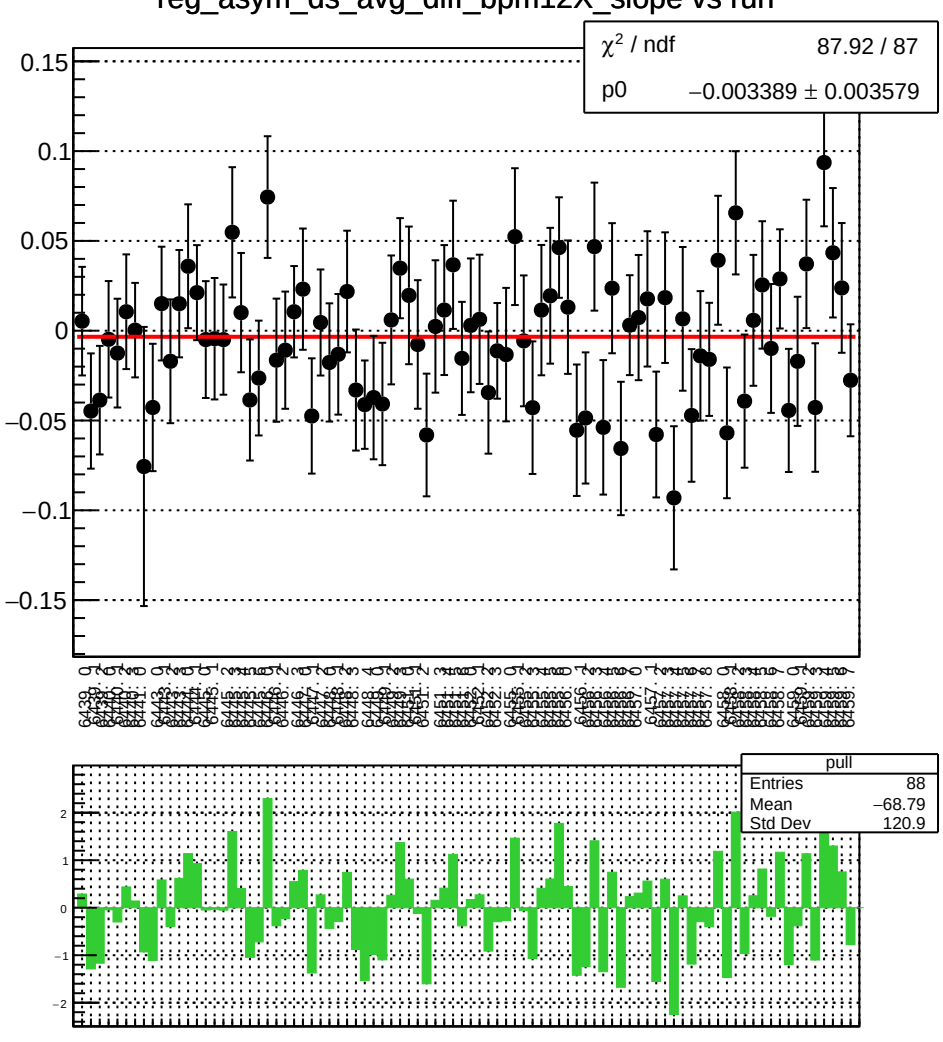

pull1D
Entries 88
Mean −0.0007502
Std Dev 0.9918

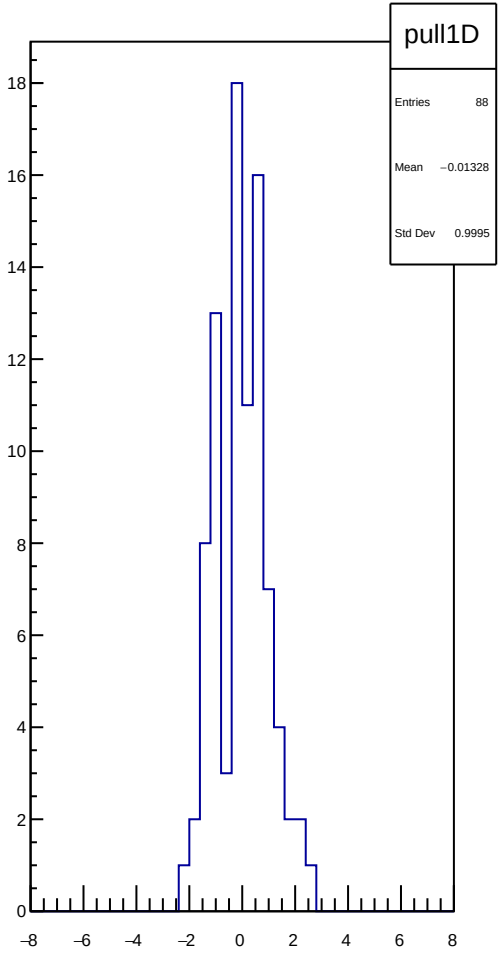

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 98.11 / 87
p0 0.08704 ± 0.08671
pull
Entries 88
Mean 33.97
Std Dev 33.89

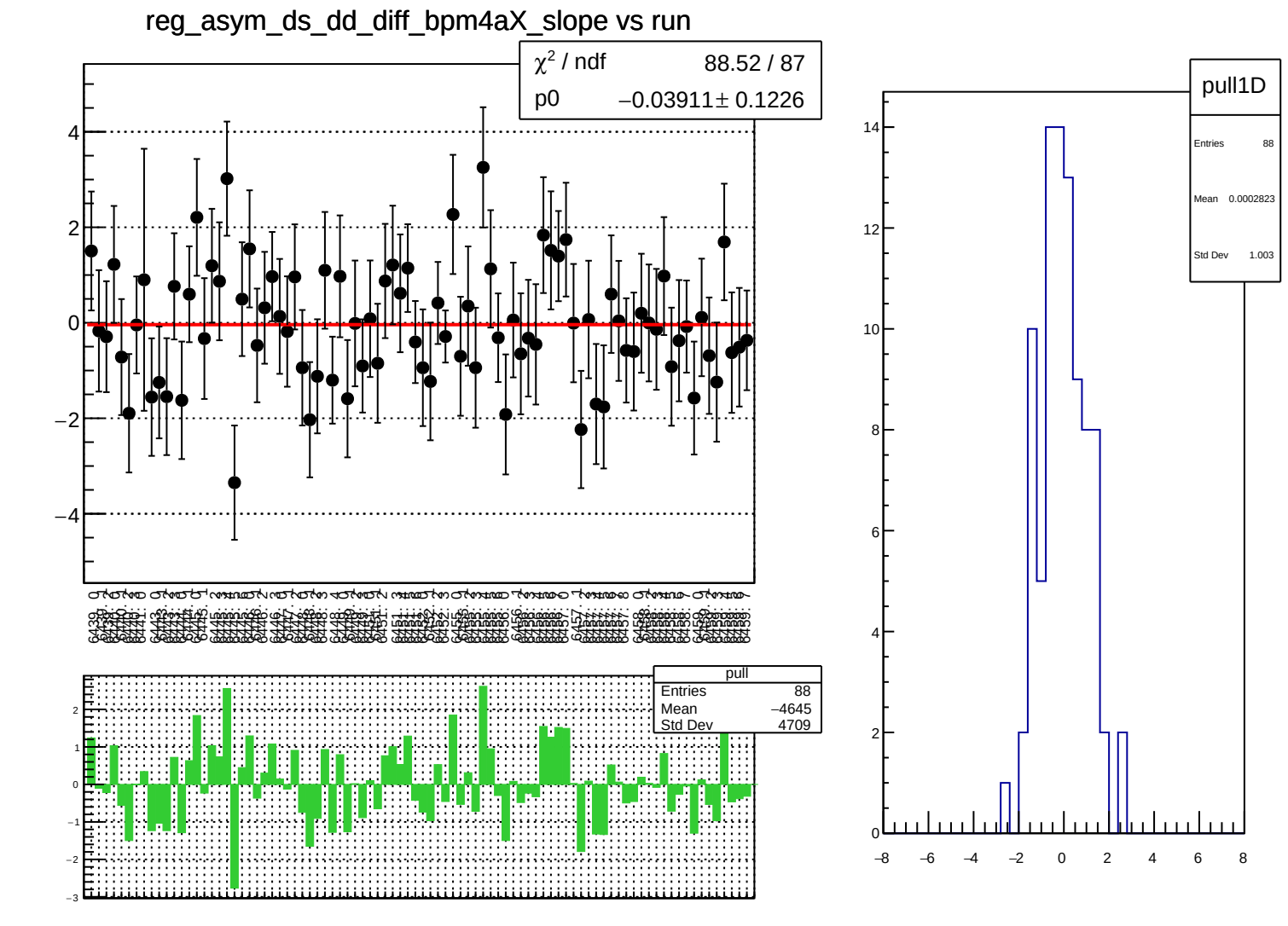

pull1D
Entries 88
Mean 0.02711
Std Dev 1.056

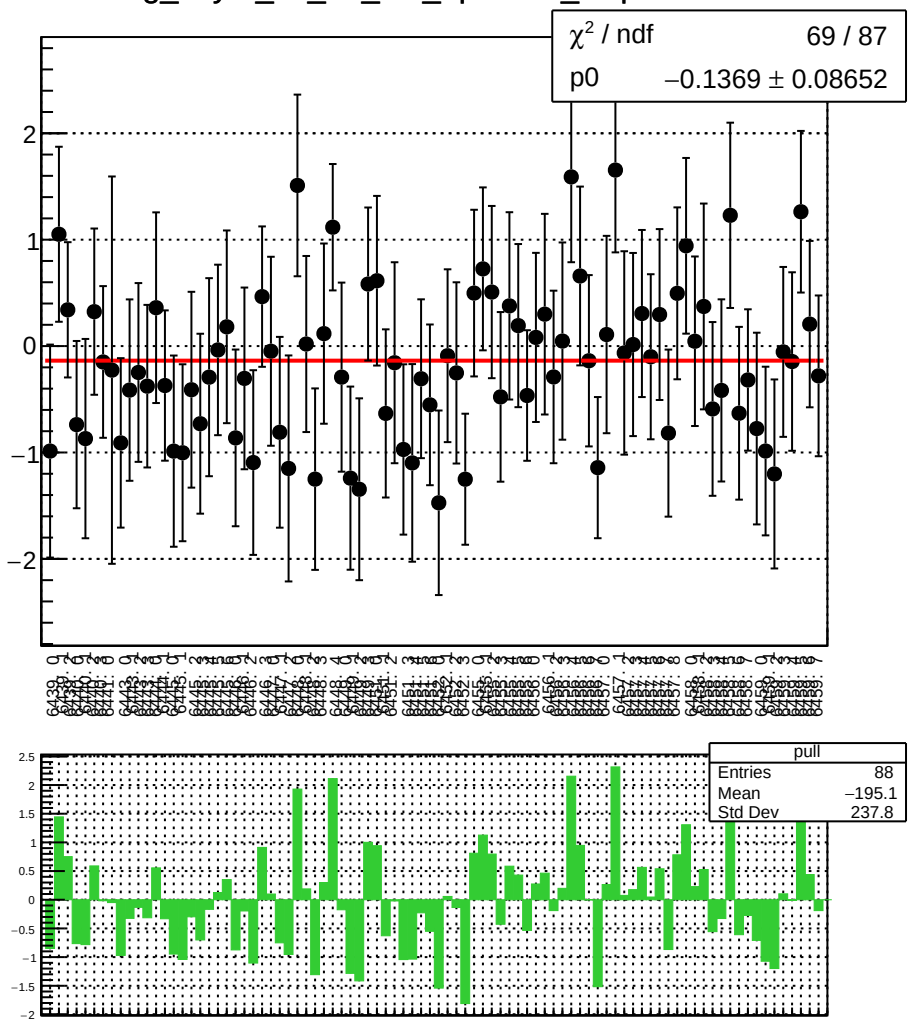

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.29 / 87
p0 0.1183 ± 0.1334
pull
Entries 88
Mean 9510
Std Dev 9532
pull1D
Entries 88
Mean 2.625e−05
Std Dev 0.9845

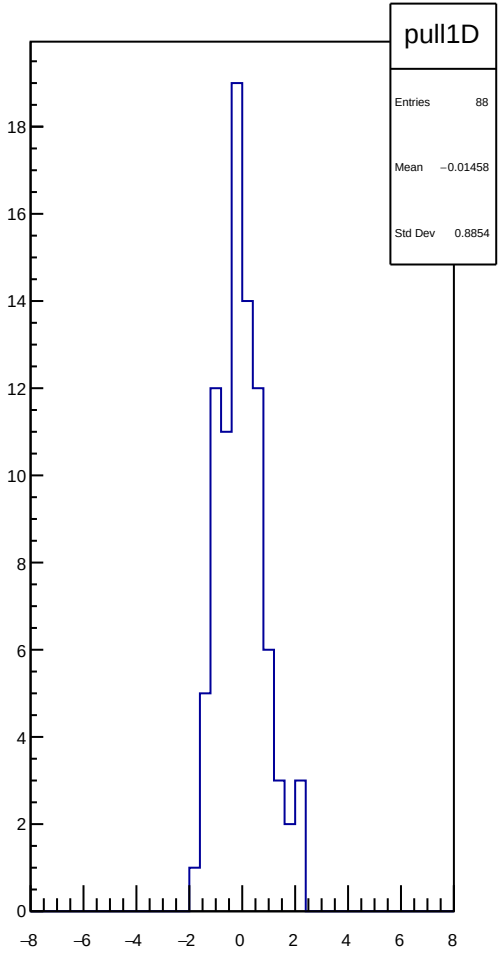

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 98.72 / 87
p0 −0.0771± 0.08697
pull
Entries 88
Mean 28.67
Std Dev 38.38
pull1D
Entries 88
Mean −0.0212
Std Dev 1.059

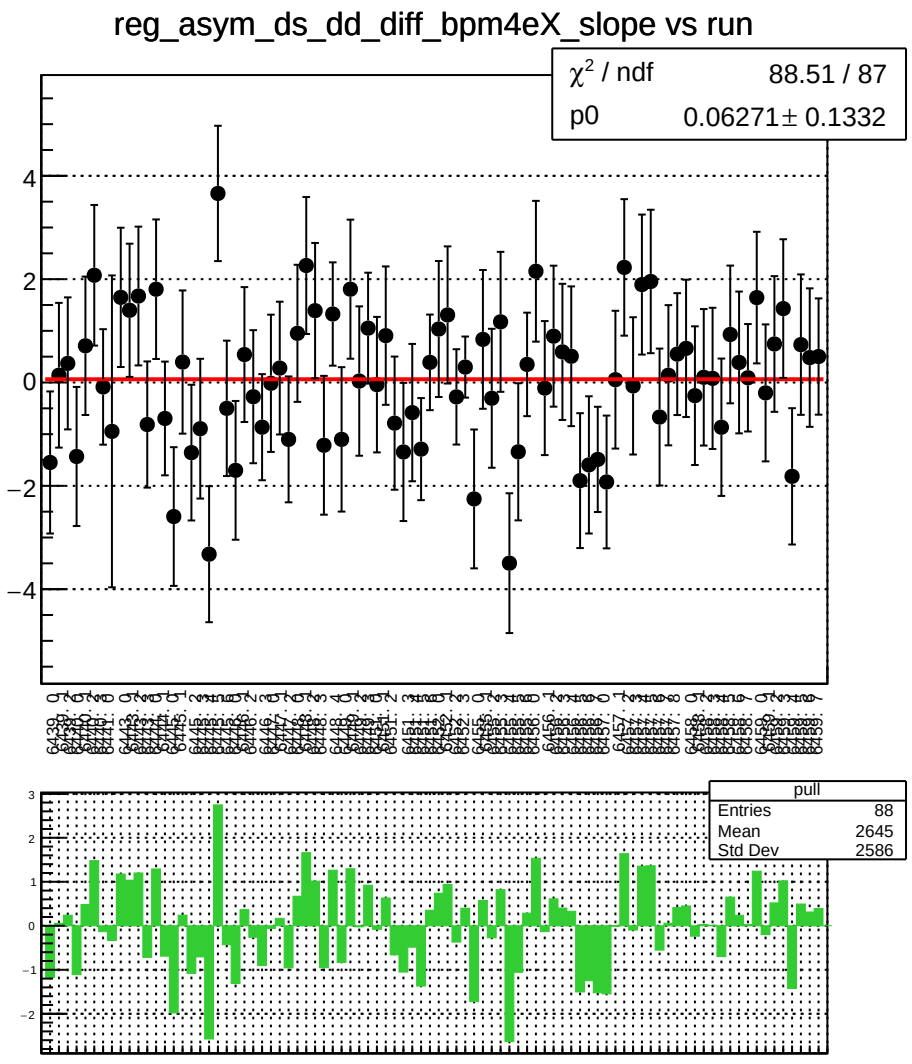

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 87.92 / 87
p0 −0.003389 ± 0.003579
pull
Entries 88
Mean −68.79
Std Dev 120.9

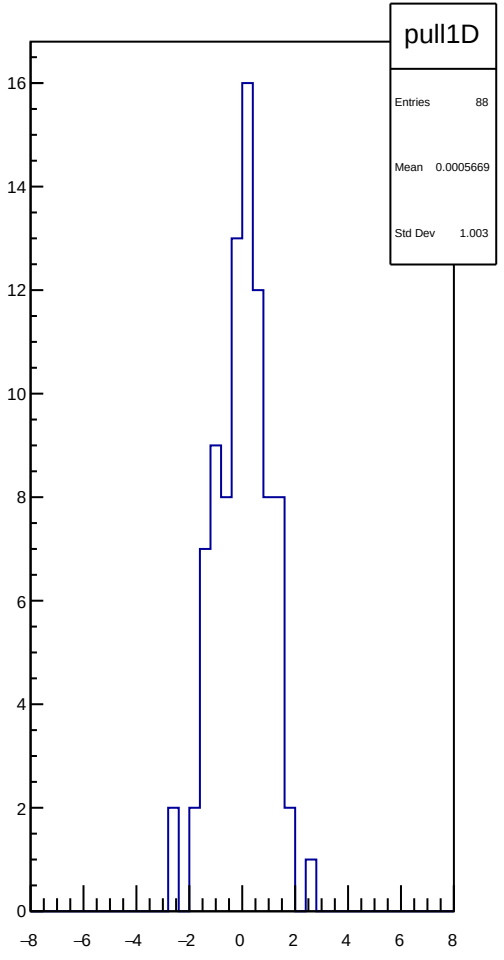

pull1D
Entries 88
Mean −0.01328
Std Dev 0.9995

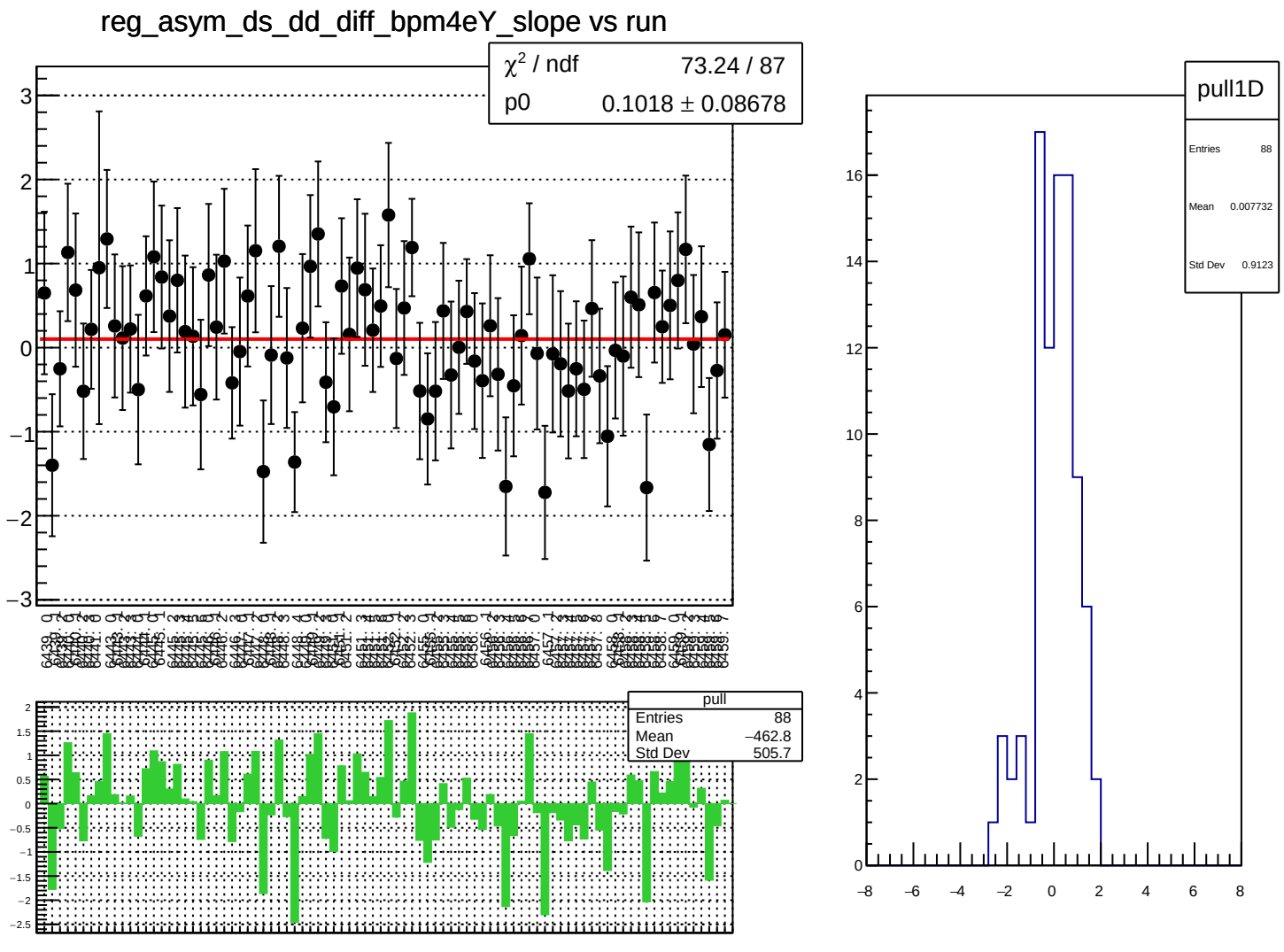

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 88.52 / 87
p0 −0.03911 ± 0.1226
pull
Entries 88
Mean −4645
Std Dev 4709
pull1D
Entries 88
Mean 0.0002823
Std Dev 1.003

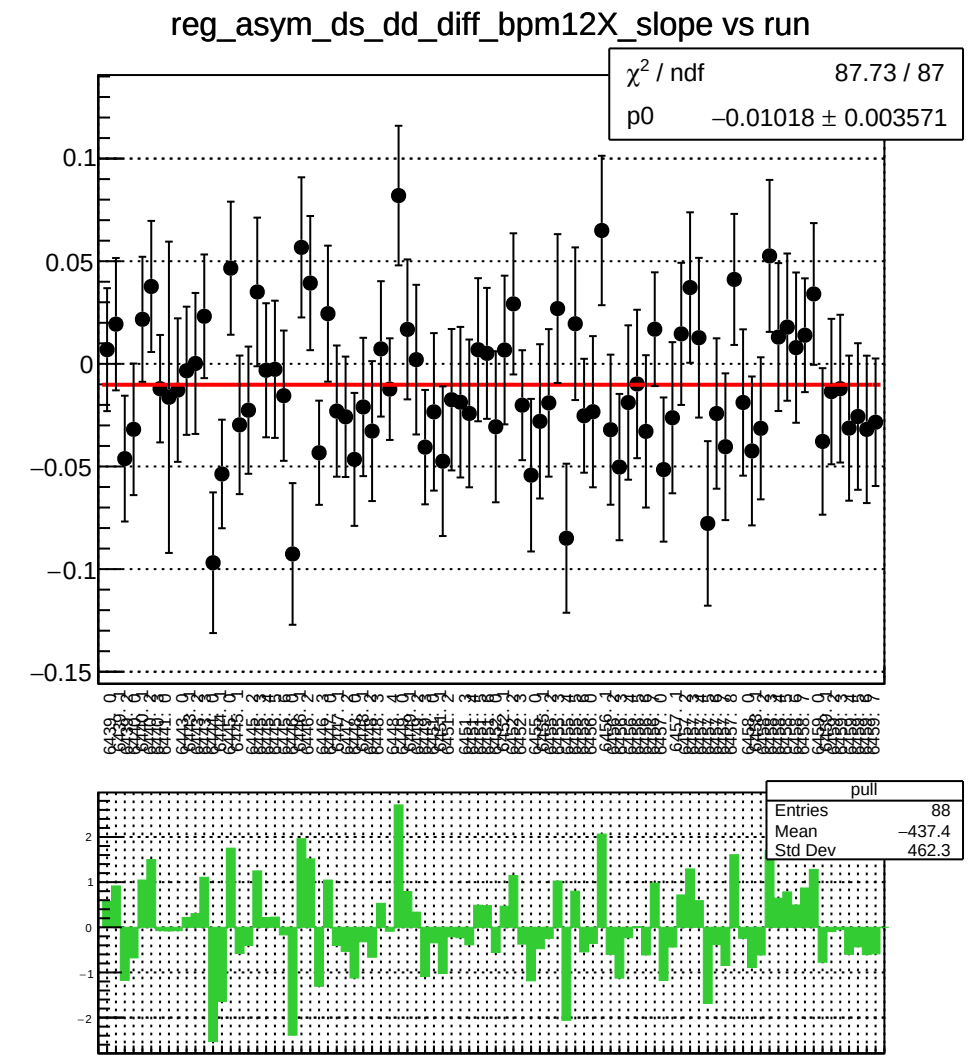

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 69 / 87
p0 −0.1369 ± 0.08652
pull
Entries 88
Mean −195.1
Std Dev 237.8

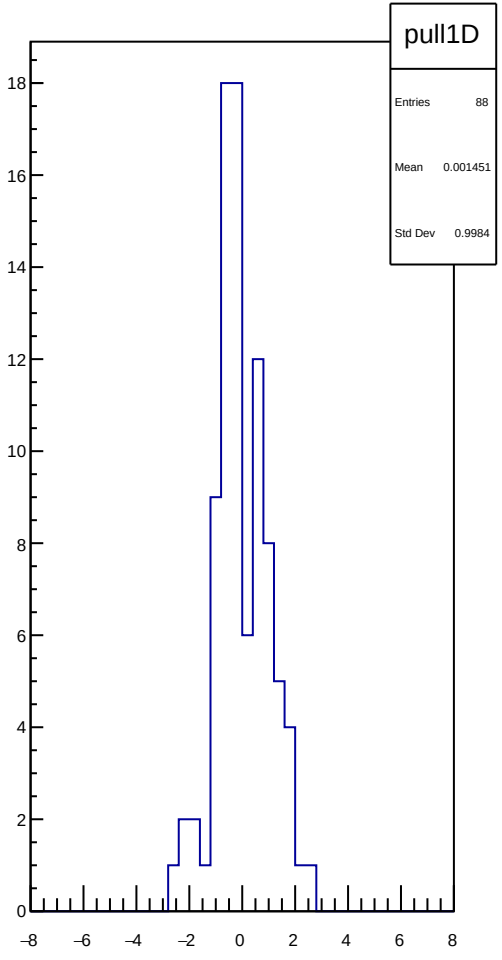

pull1D
Entries 88
Mean −0.01458
Std Dev 0.8854

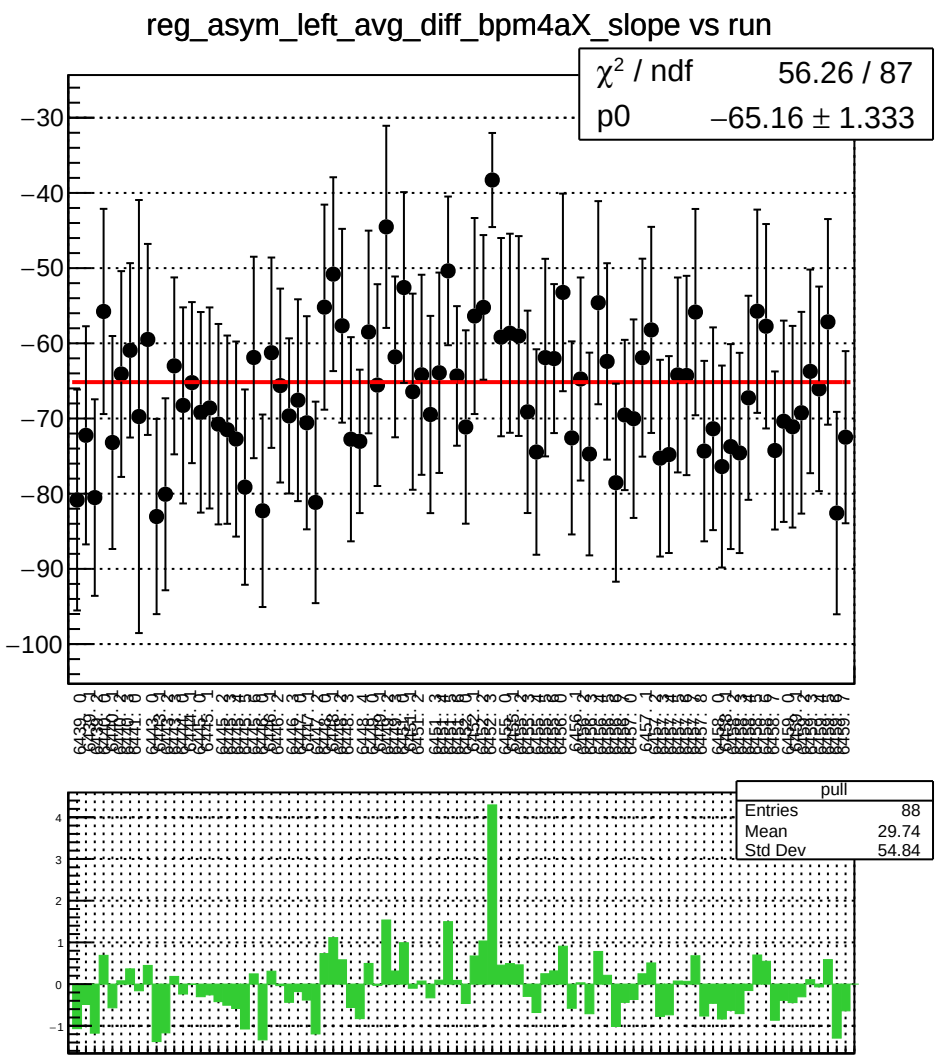

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.51 / 87
p0 0.06271± 0.1332
pull
Entries 88
Mean 2645
Std Dev 2586

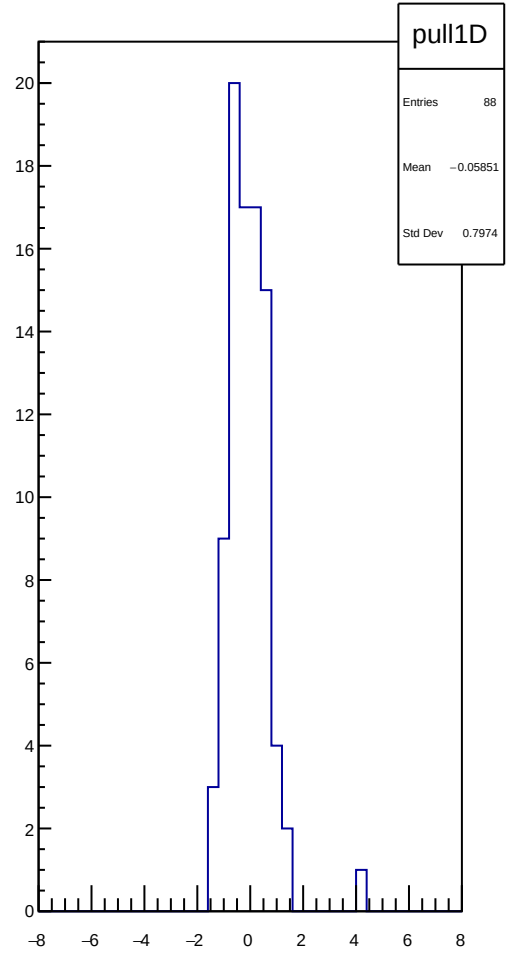

pull1D
Entries 88
Mean 0.0005669
Std Dev 1.003

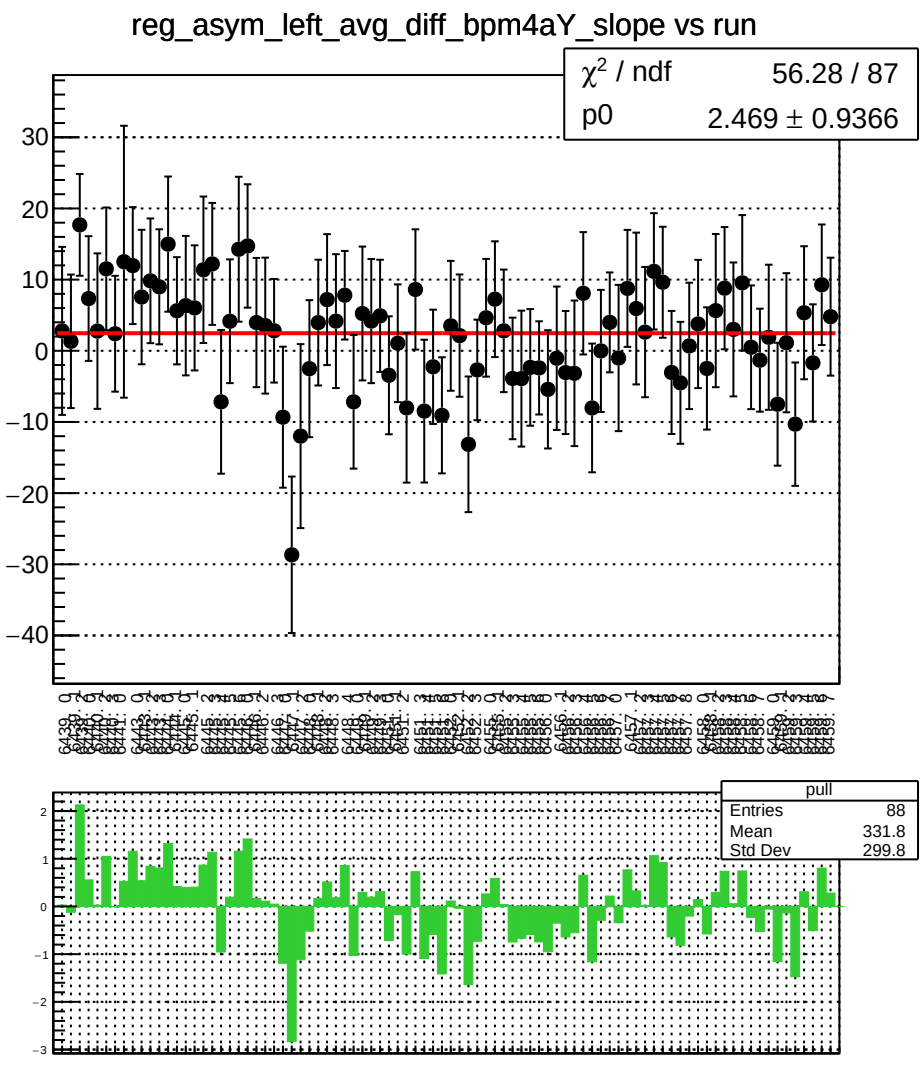

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.24 / 87
p0 0.1018 ± 0.08678
pull
Entries 88
Mean −462.8
Std Dev 505.7
pull1D
Entries 88
Mean 0.007732
Std Dev 0.9123

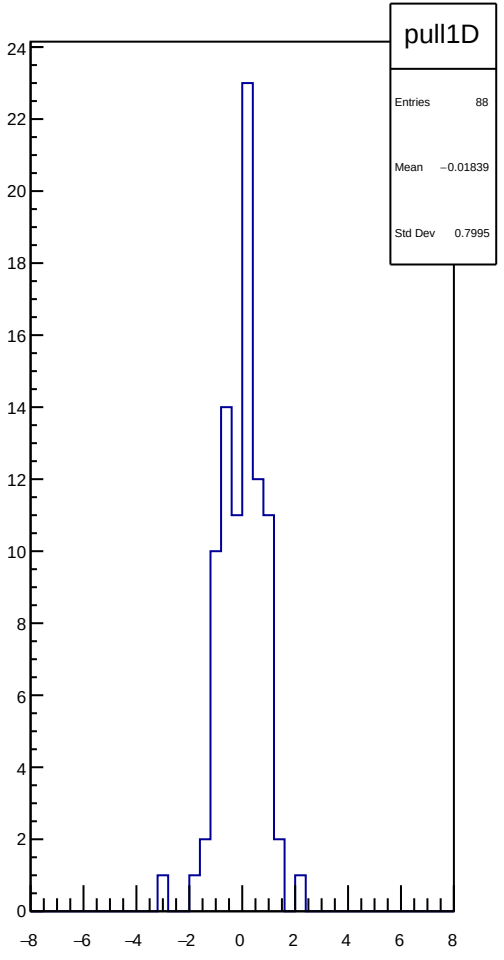

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 87.73 / 87
p0 −0.01018 ± 0.003571
pull
Entries 88
Mean −437.4
Std Dev 462.3

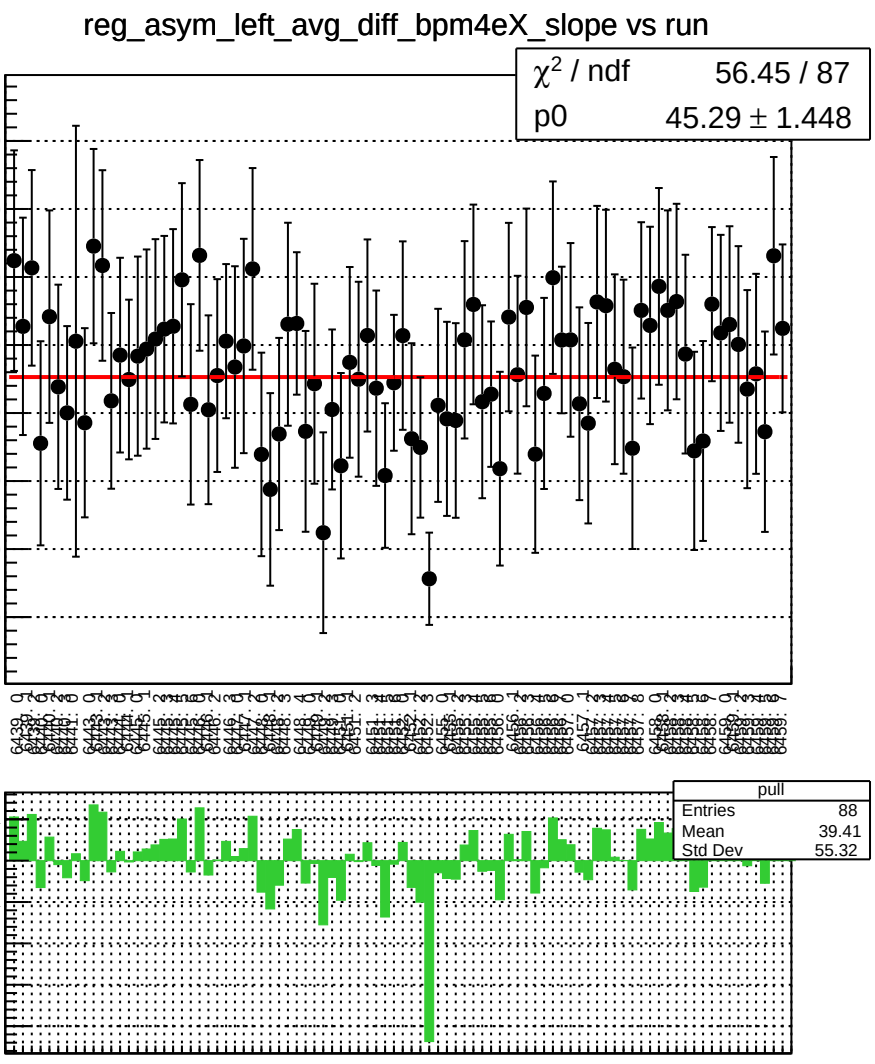

pull1D
Entries 88
Mean 0.001451
Std Dev 0.9984

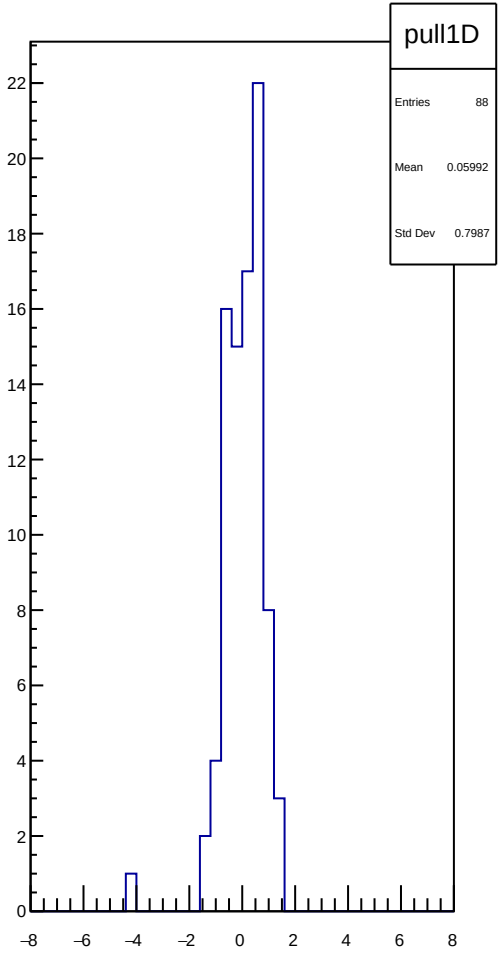

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 56.26 / 87
p0 −65.16 ± 1.333
pull
Entries 88
Mean 29.74
Std Dev 54.84

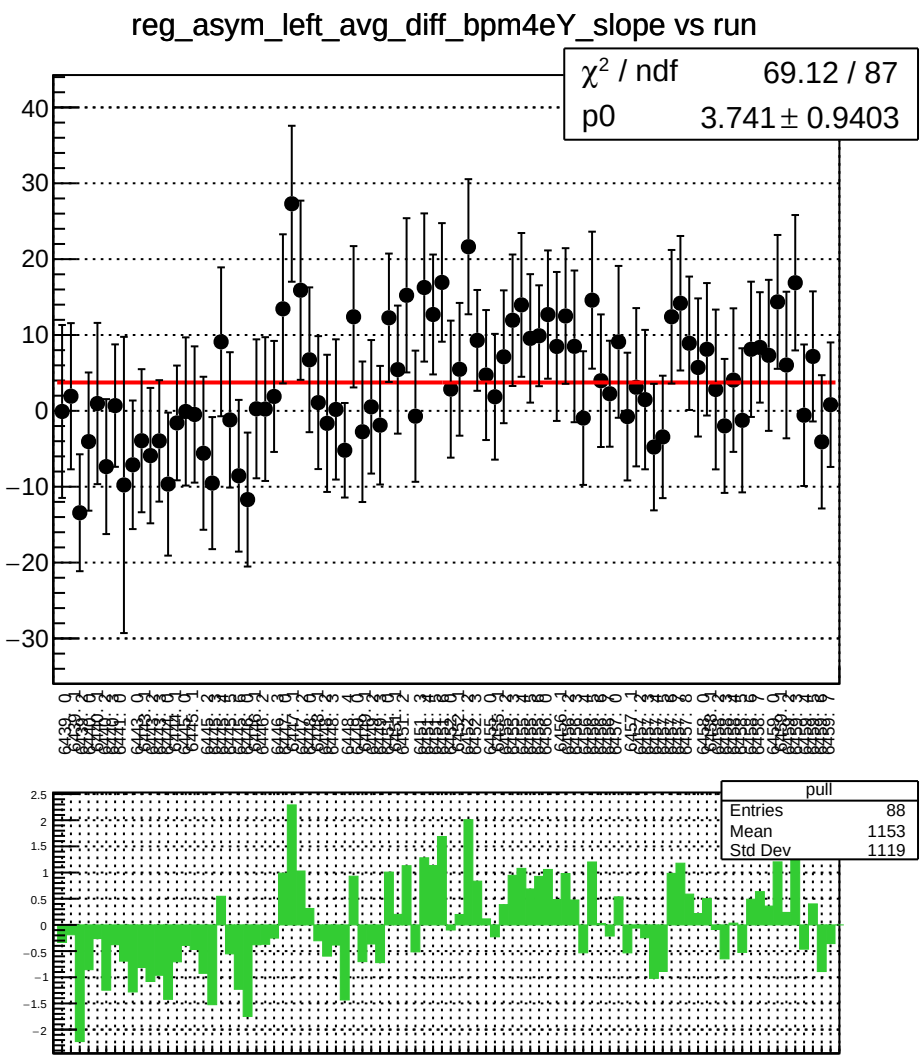

pull1D
Entries 88
Mean −0.05851
Std Dev 0.7974

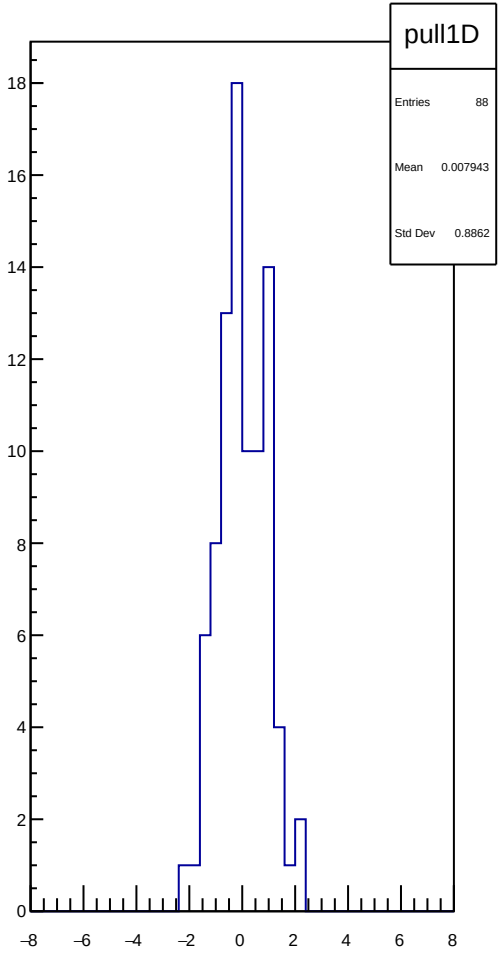

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.28 / 87
p0 2.469 ± 0.9366
pull
Entries 88
Mean 331.8
Std Dev 299.8

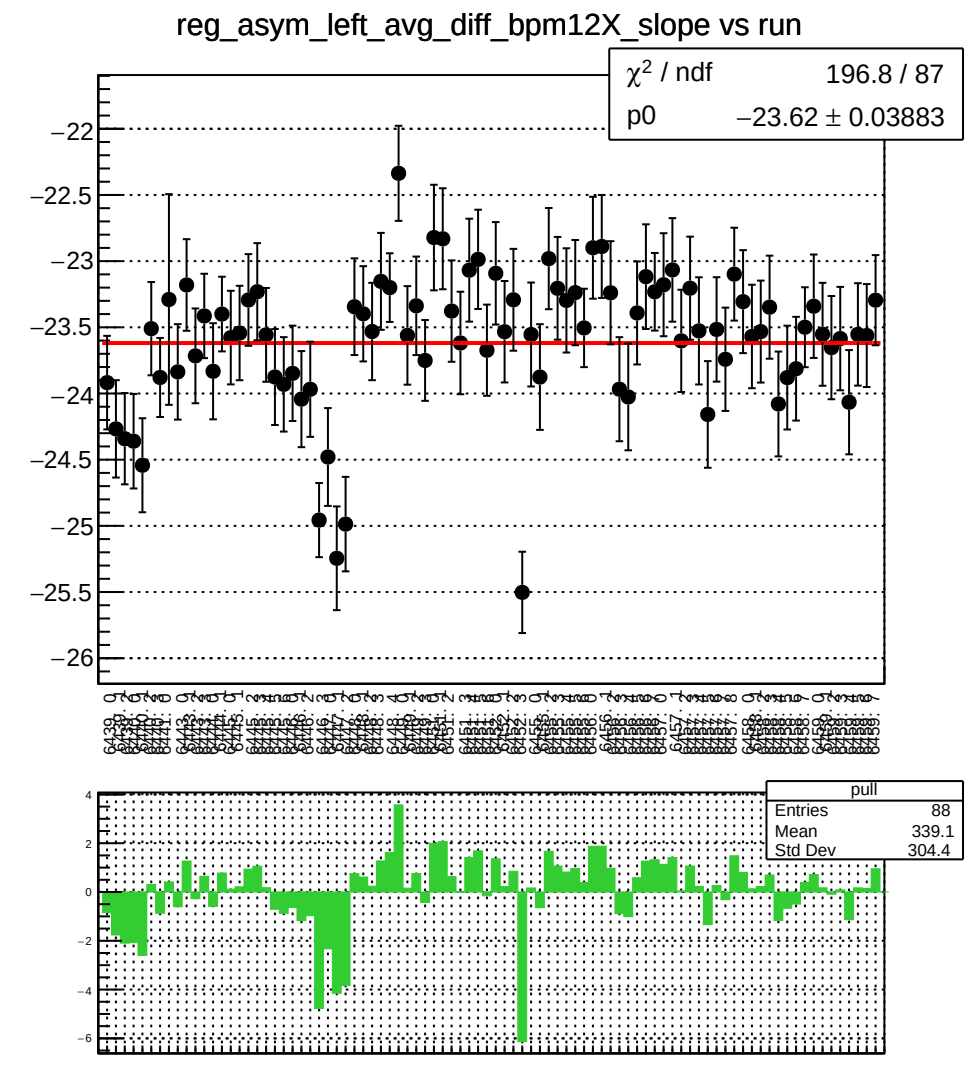

pull1D
Entries 88
Mean −0.01839
Std Dev 0.7995

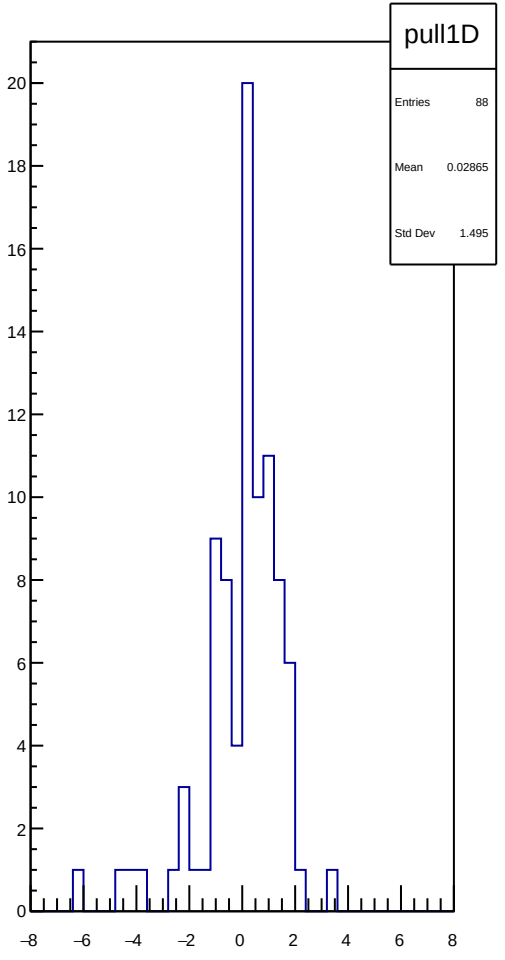

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 56.45 / 87
p0 45.29 ± 1.448
pull
Entries 88
Mean 39.41
Std Dev 55.32

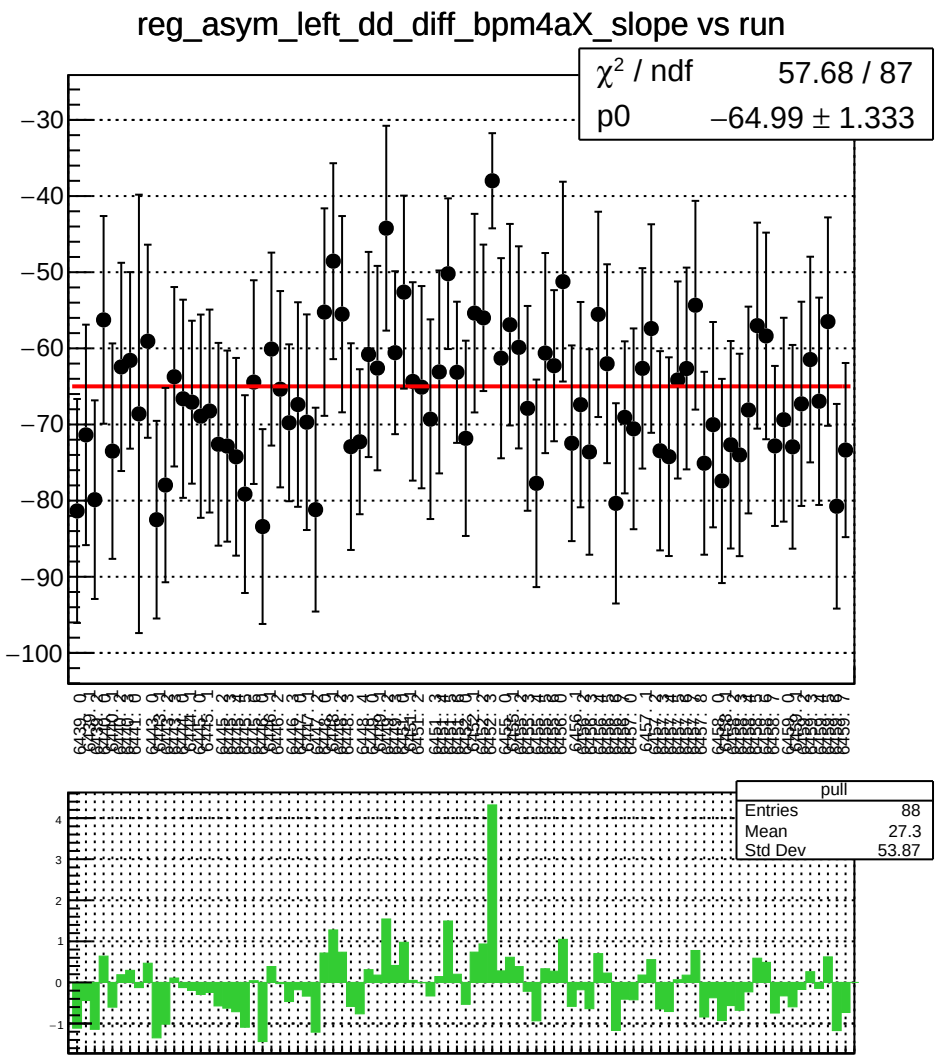

pull1D
Entries 88
Mean 0.05992
Std Dev 0.7987

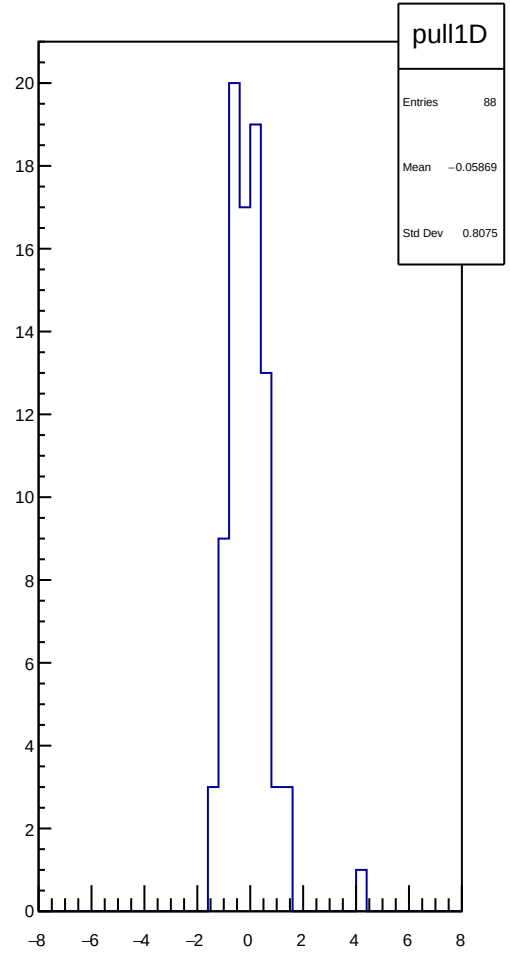

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 69.12 / 87
p0 3.741 ± 0.9403
pull
Entries 88
Mean 1153
Std Dev 1119

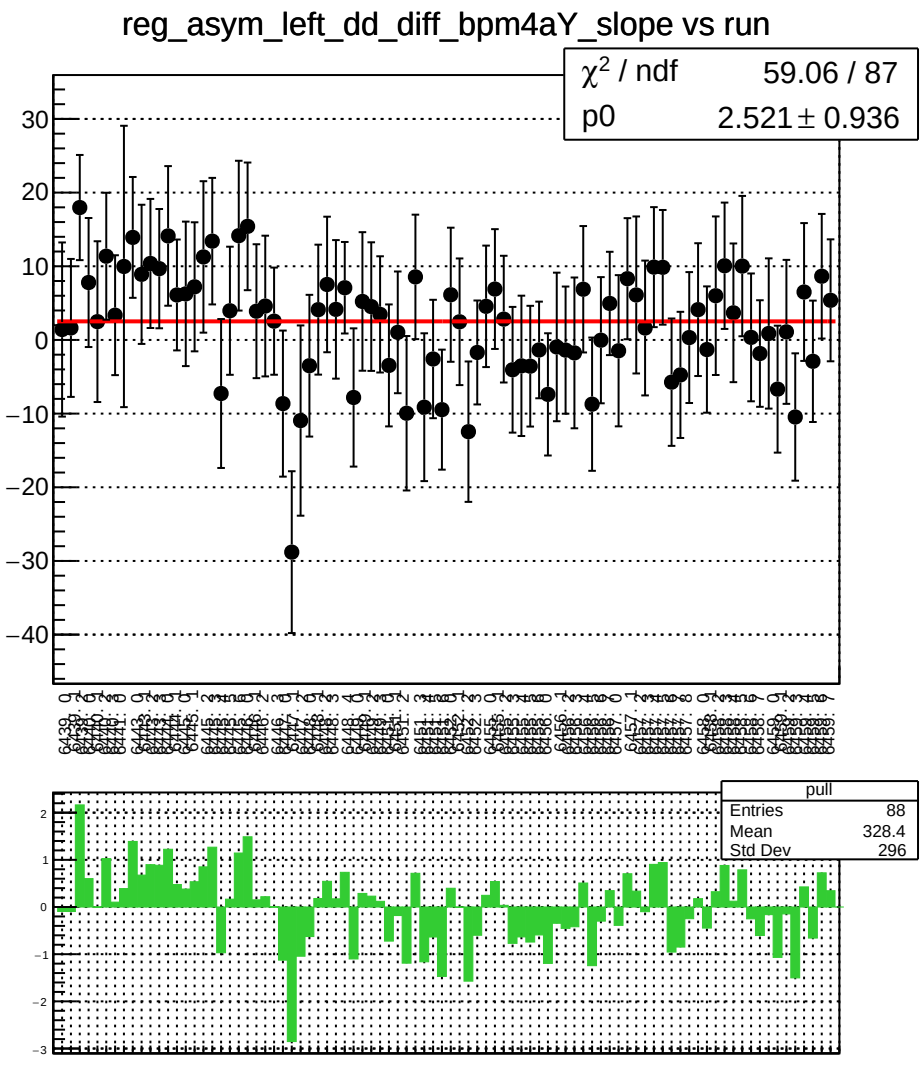

pull1D
Entries 88
Mean 0.007943
Std Dev 0.8862

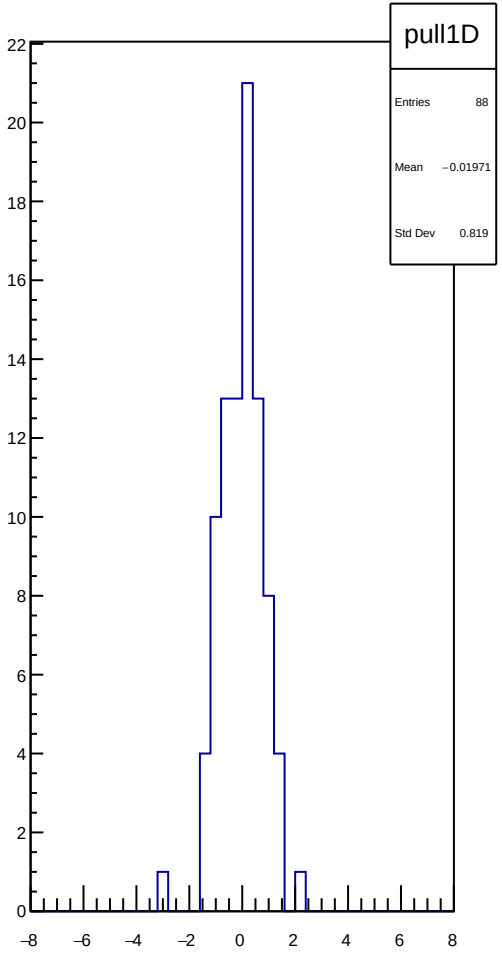

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 196.8 / 87
p0 −23.62 ± 0.03883
pull
Entries 88
Mean 339.1
Std Dev 304.4

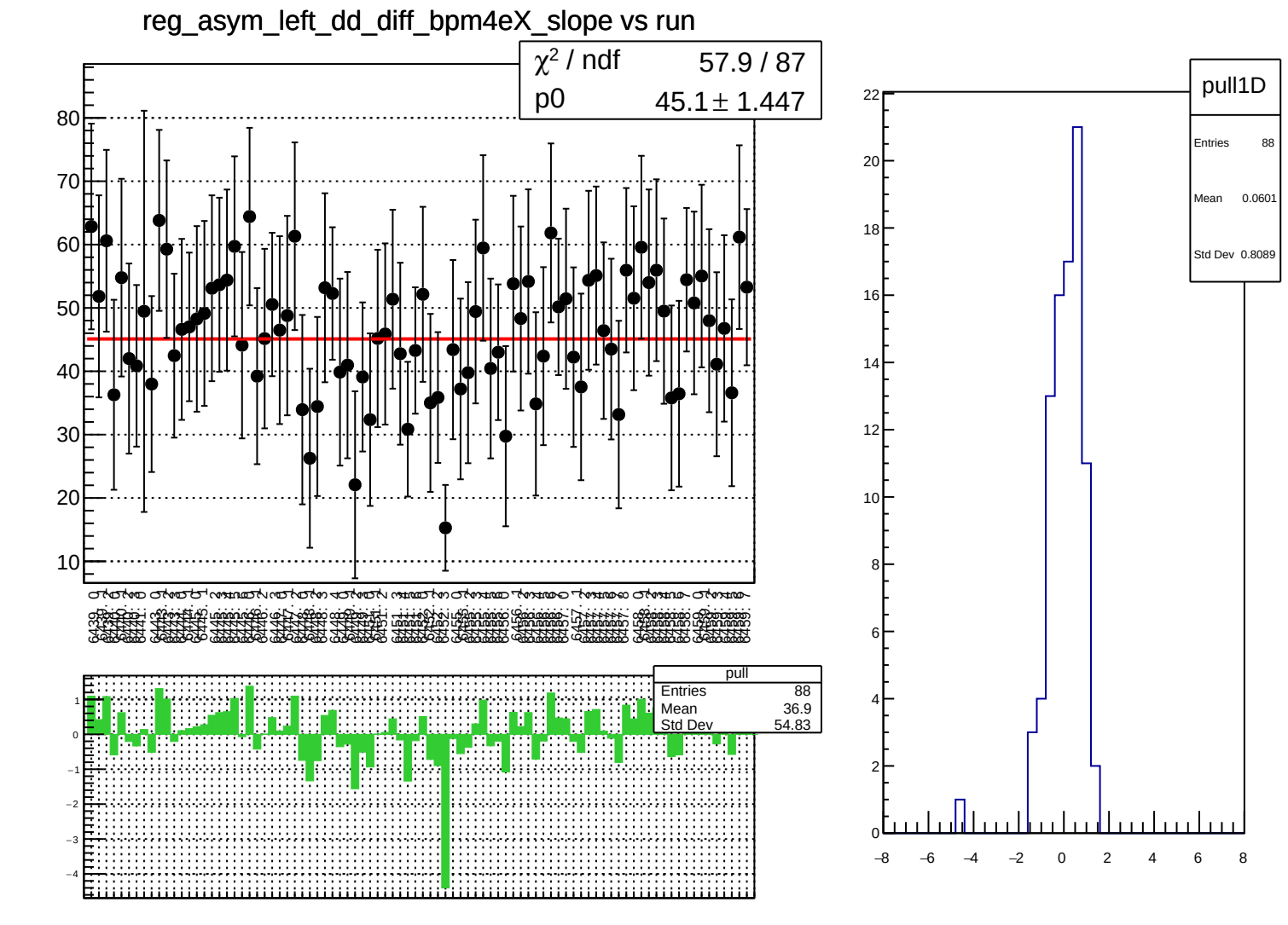

pull1D
Entries 88
Mean 0.02865
Std Dev 1.495

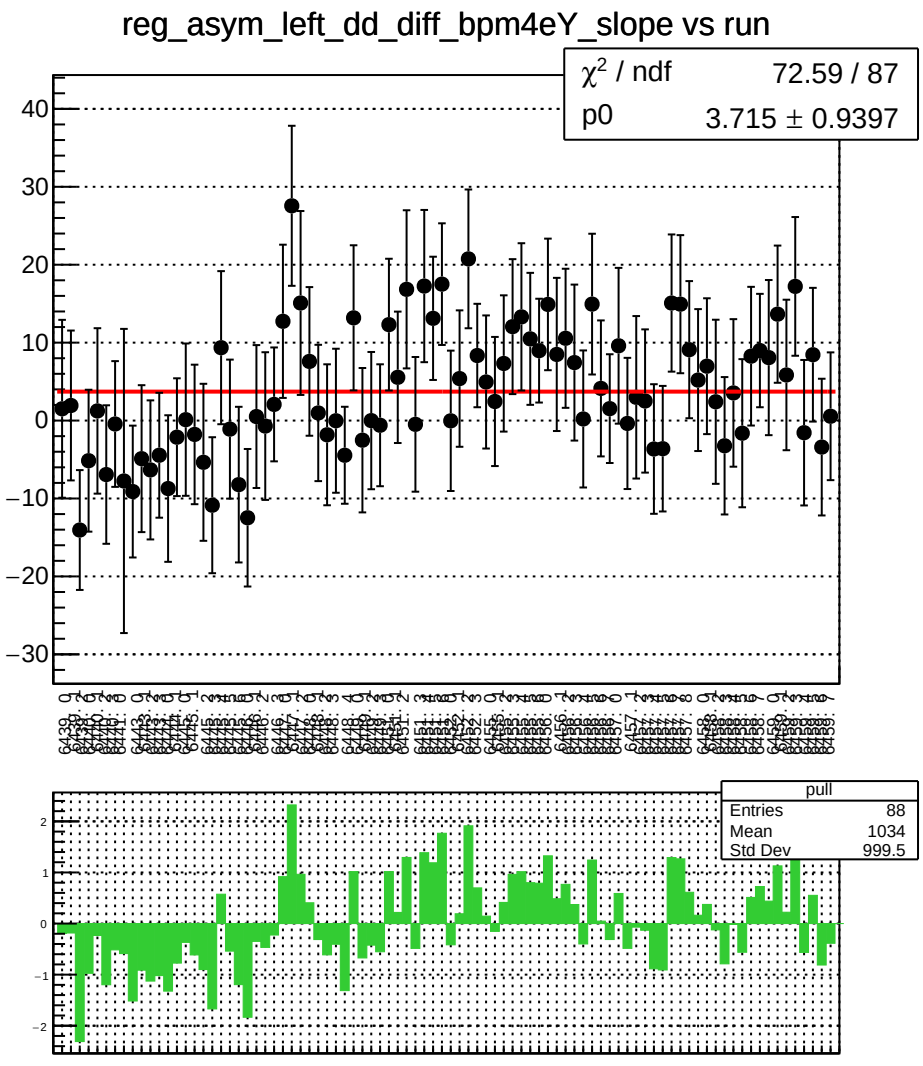

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 57.68 / 87
p0 −64.99 ± 1.333
pull
Entries 88
Mean 27.3
Std Dev 53.87

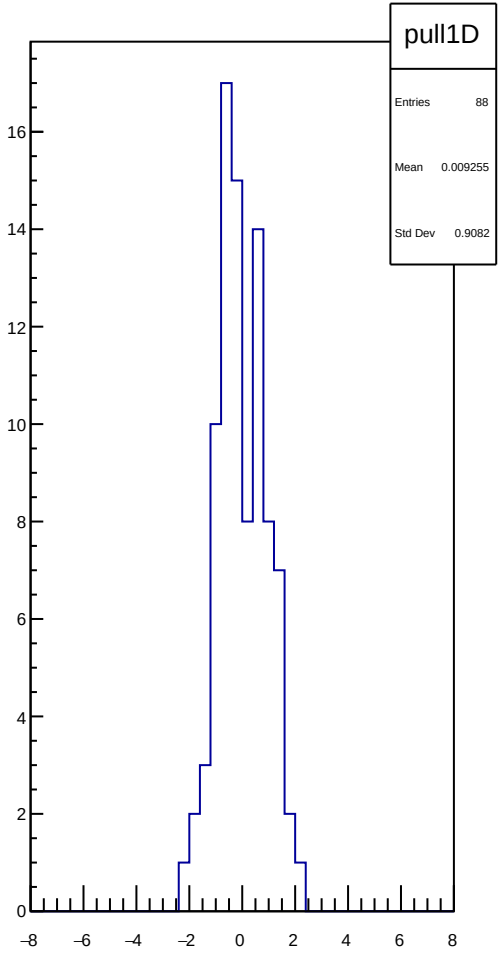

pull1D
Entries 88
Mean −0.05869
Std Dev 0.8075

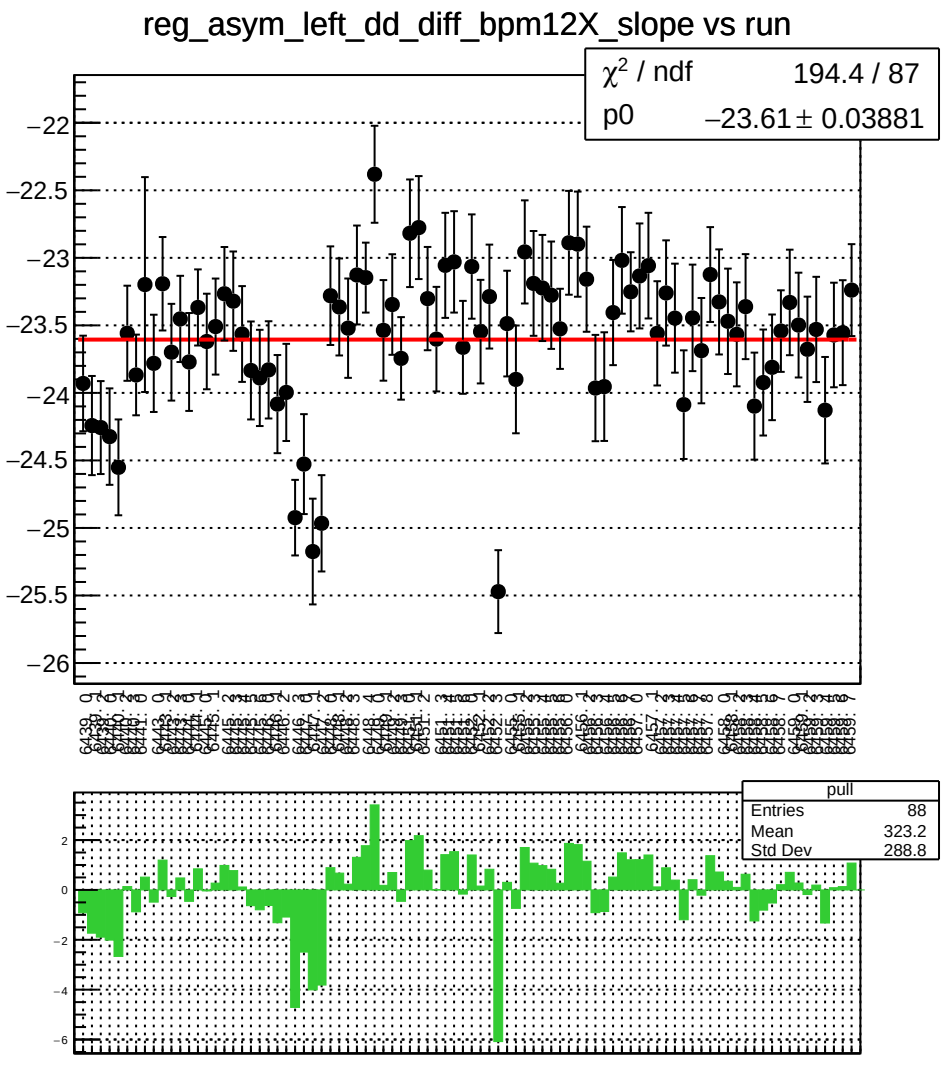

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 59.06 / 87
p0 2.521 ± 0.936
pull
Entries 88
Mean 328.4
Std Dev 296

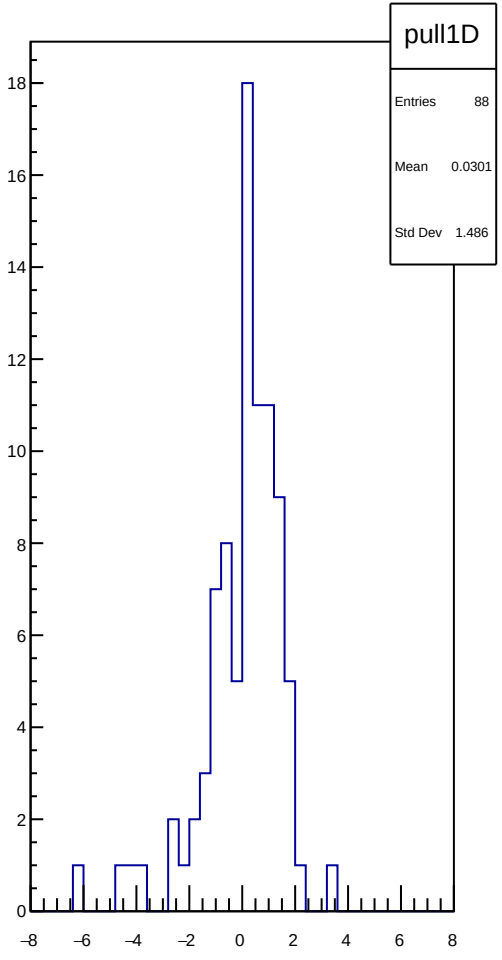

pull1D
Entries 88
Mean −0.01971
Std Dev 0.819

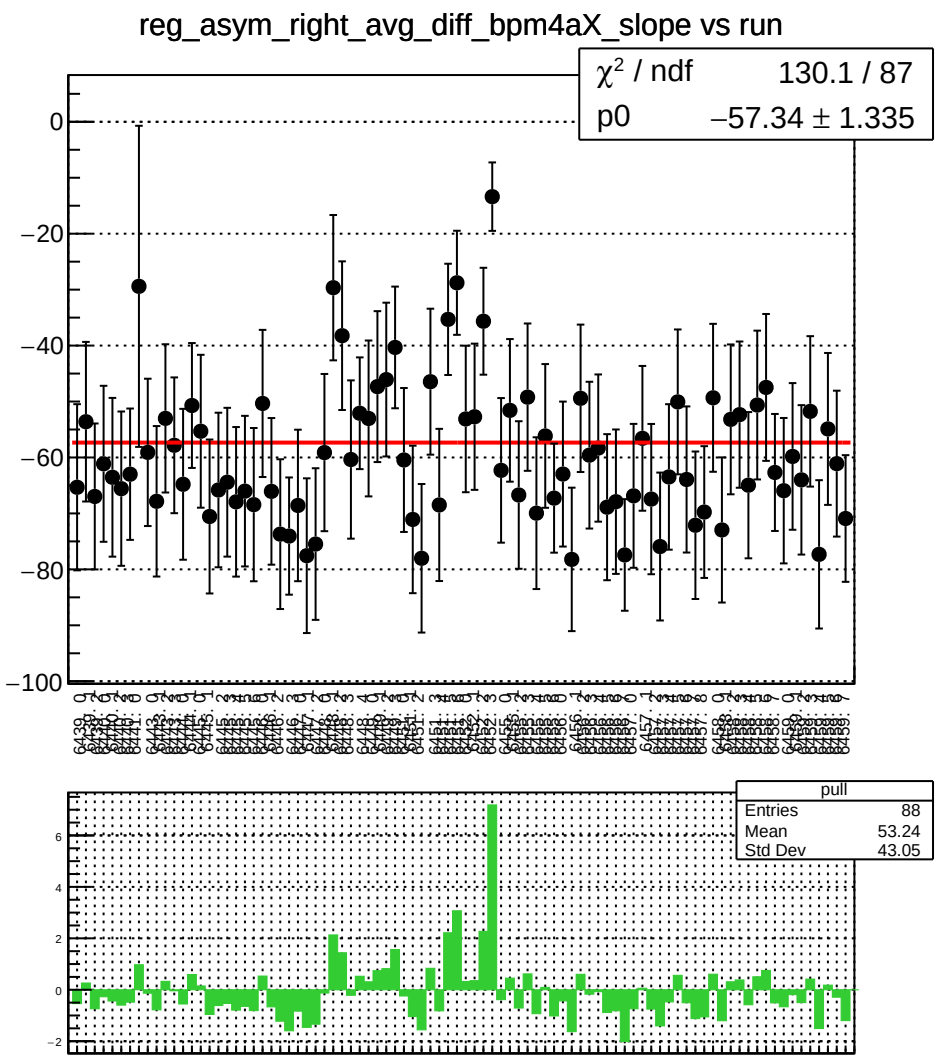

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.9 / 87
p0 45.1 ± 1.447
pull
Entries 88
Mean 36.9
Std Dev 54.83
pull1D
Entries 88
Mean 0.0601
Std Dev 0.8089

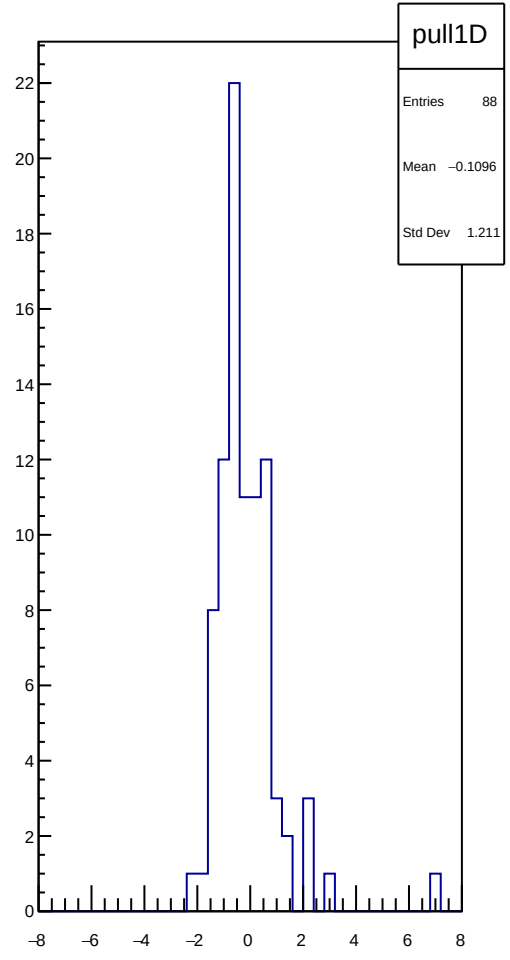

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.59 / 87
p0 3.715 ± 0.9397
pull
Entries 88
Mean 1034
Std Dev 999.5

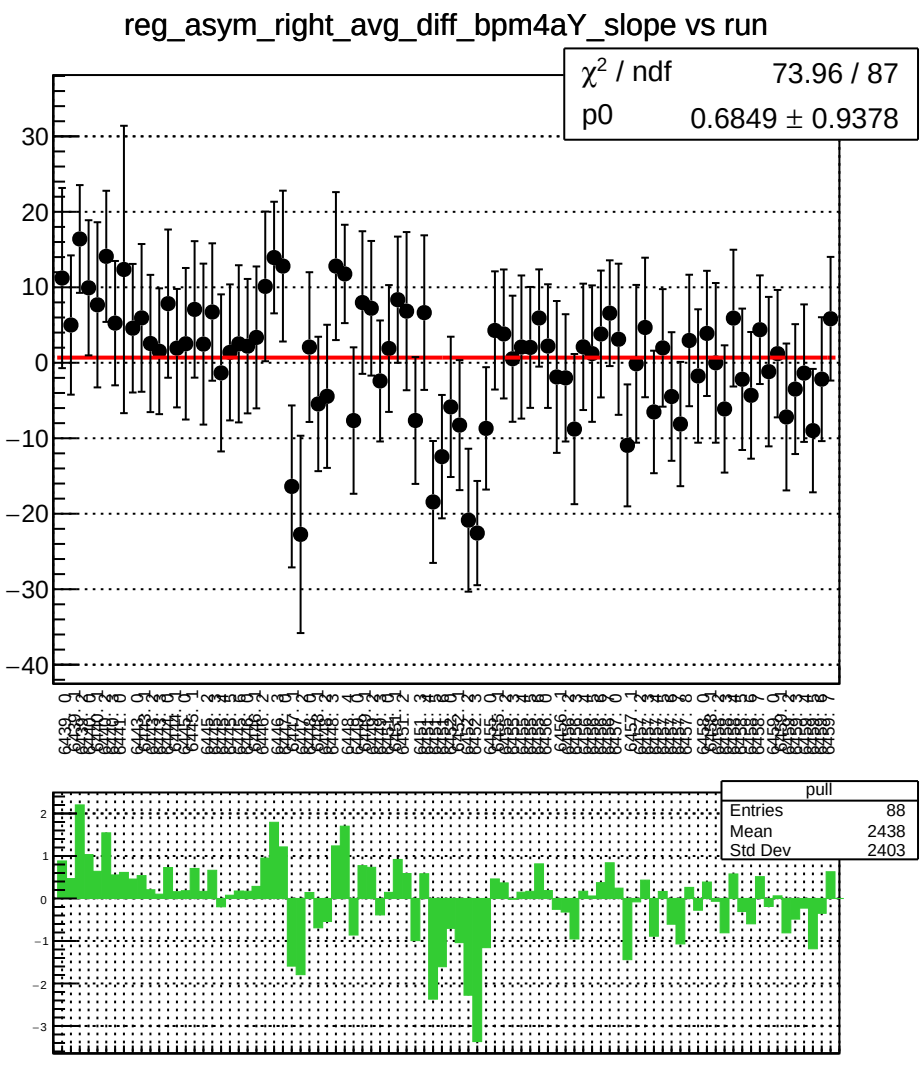

pull1D
Entries 88
Mean 0.009255
Std Dev 0.9082

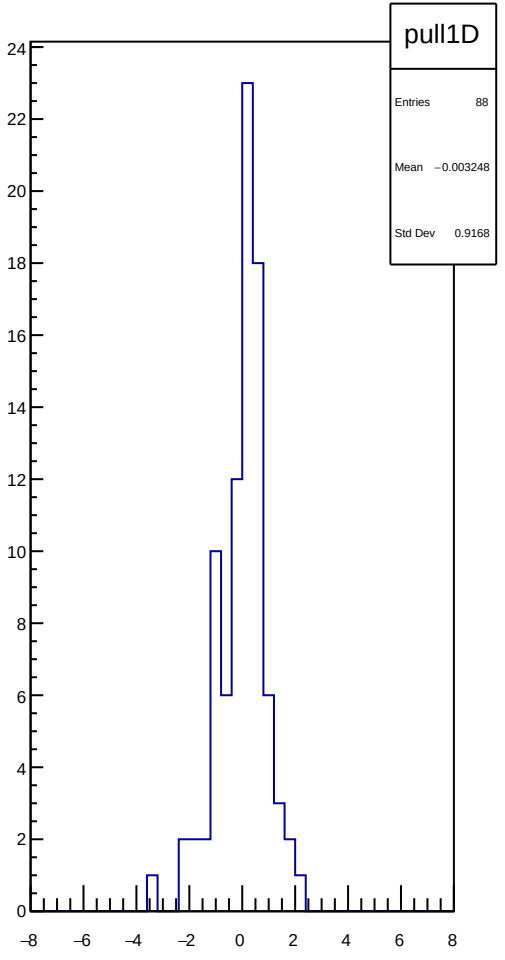

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 194.4 / 87
p0 −23.61 ± 0.03881
pull
Entries 88
Mean 323.2
Std Dev 288.8

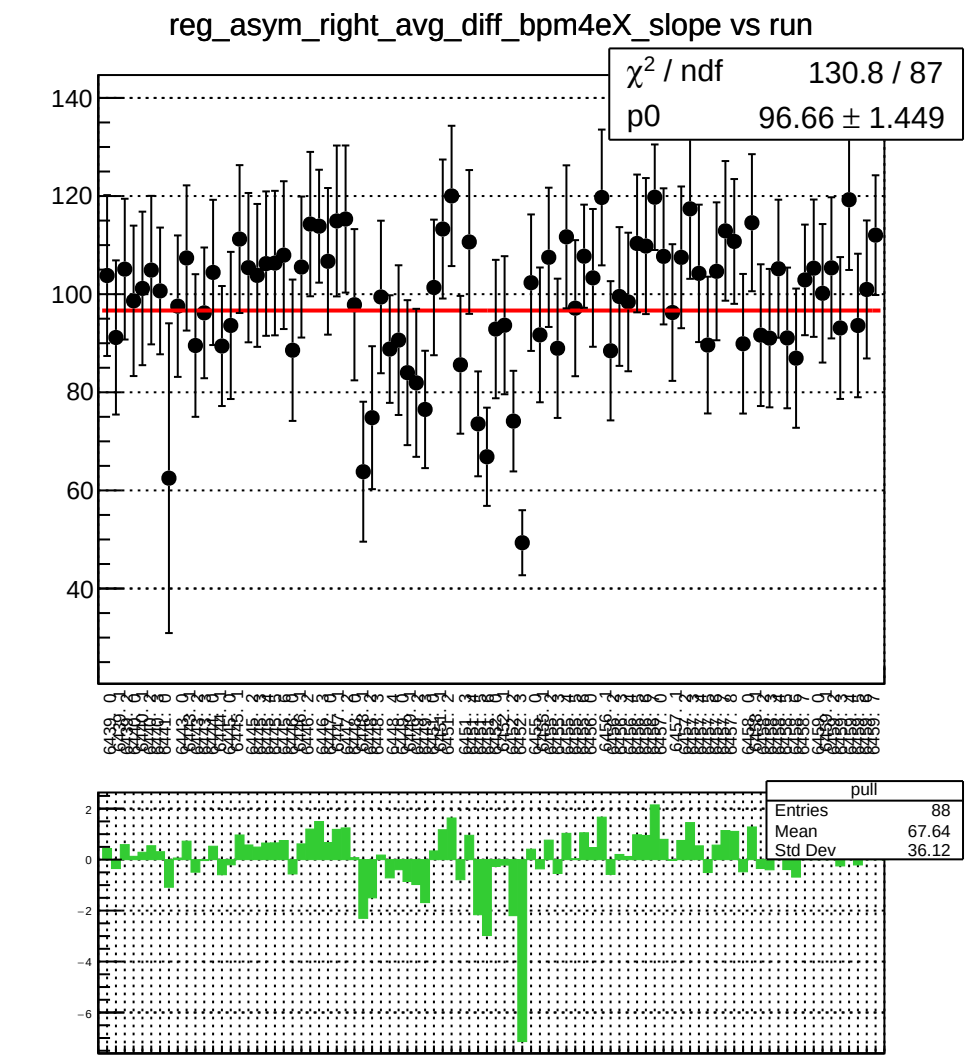

pull1D
Entries 88
Mean 0.0301
Std Dev 1.486

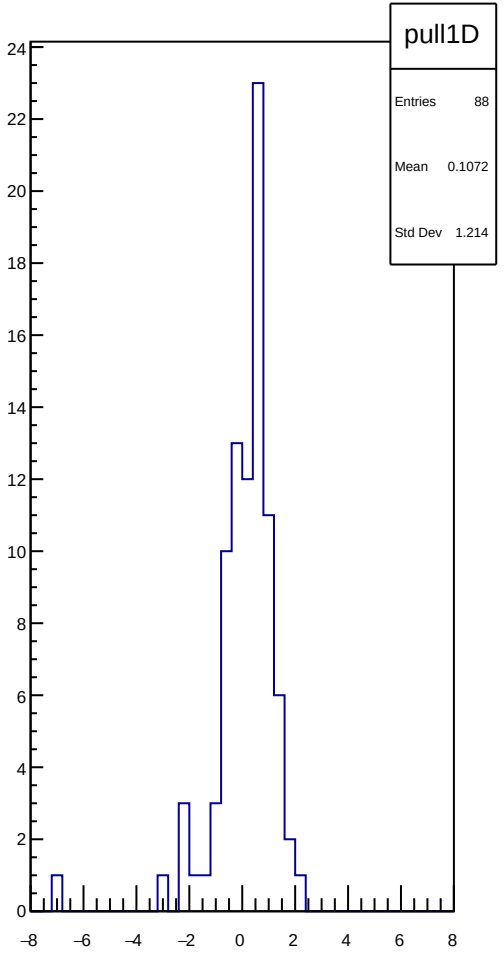

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 130.1 / 87
p0 −57.34 ± 1.335
pull
Entries 88
Mean 53.24
Std Dev 43.05

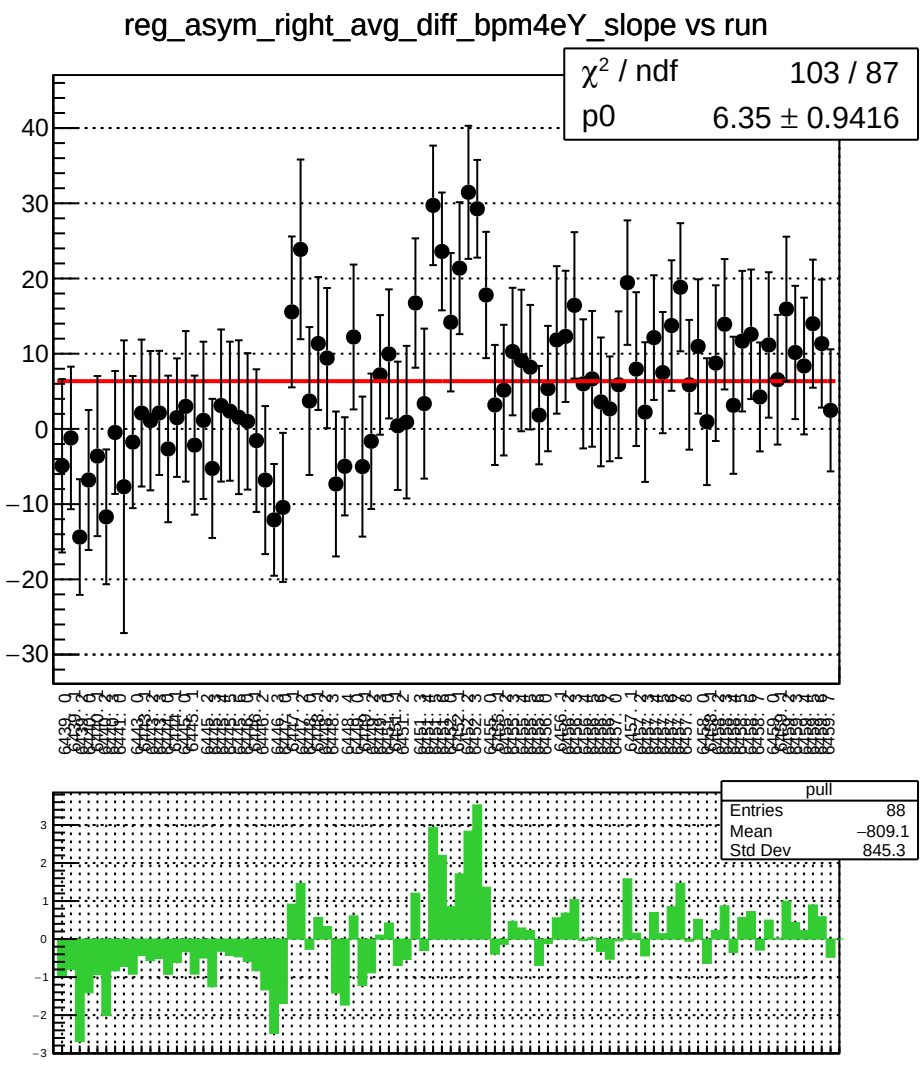

pull1D
Entries 88
Mean −0.1096
Std Dev 1.211

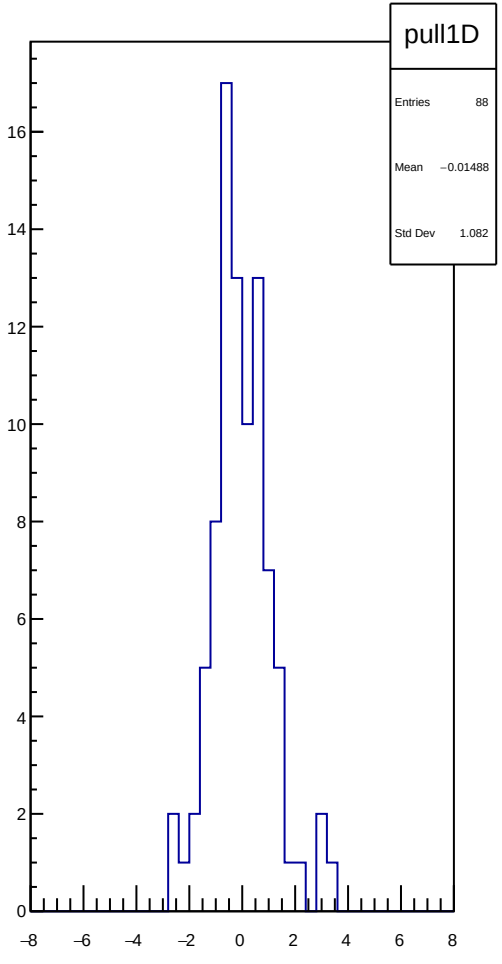

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.96 / 87
p0 0.6849 ± 0.9378
pull
Entries 88
Mean 2438
Std Dev 2403

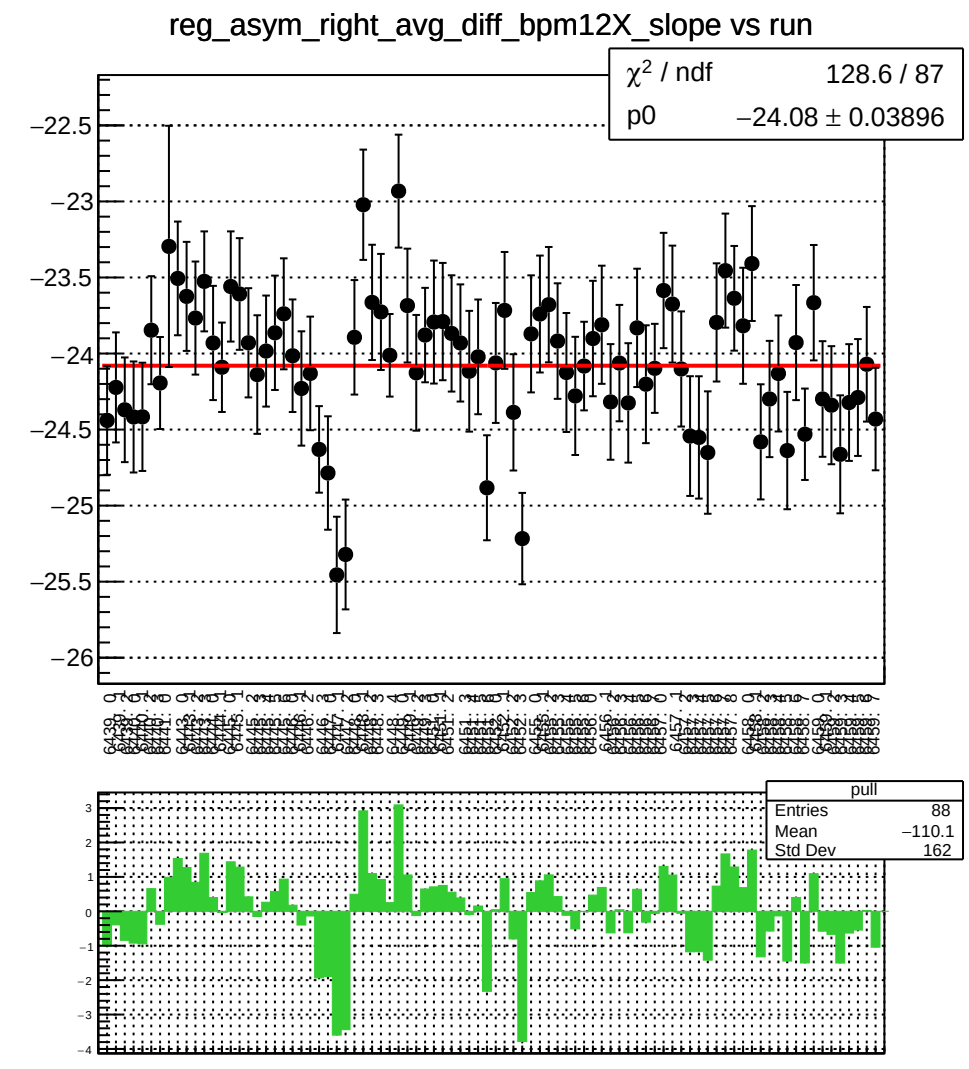

pull1D
Entries 88
Mean −0.003248
Std Dev 0.9168

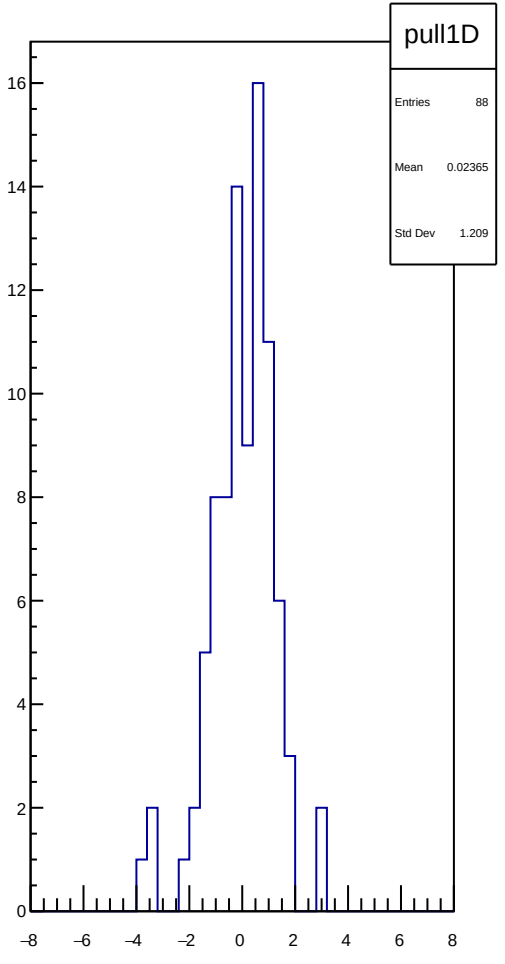

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 130.8 / 87
p0 96.66 ± 1.449
pull
Entries 88
Mean 67.64
Std Dev 36.12

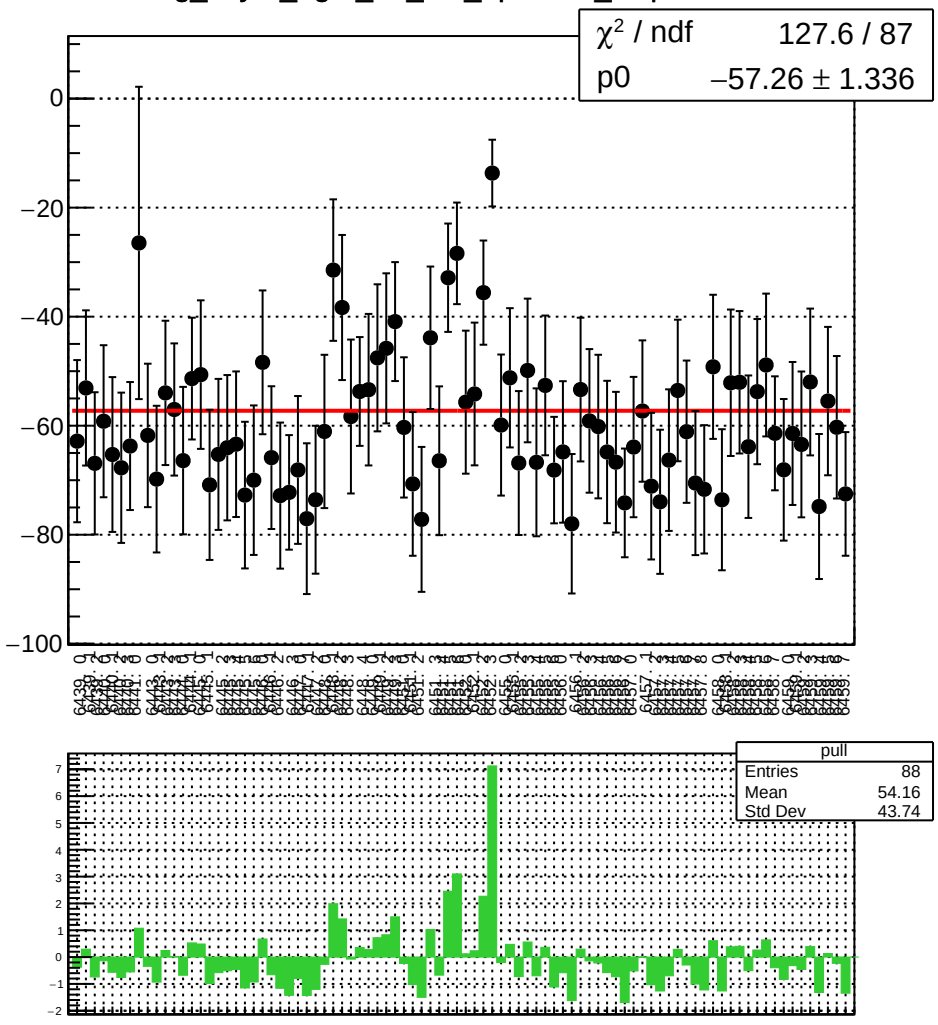

pull1D
Entries 88
Mean 0.1072
Std Dev 1.214

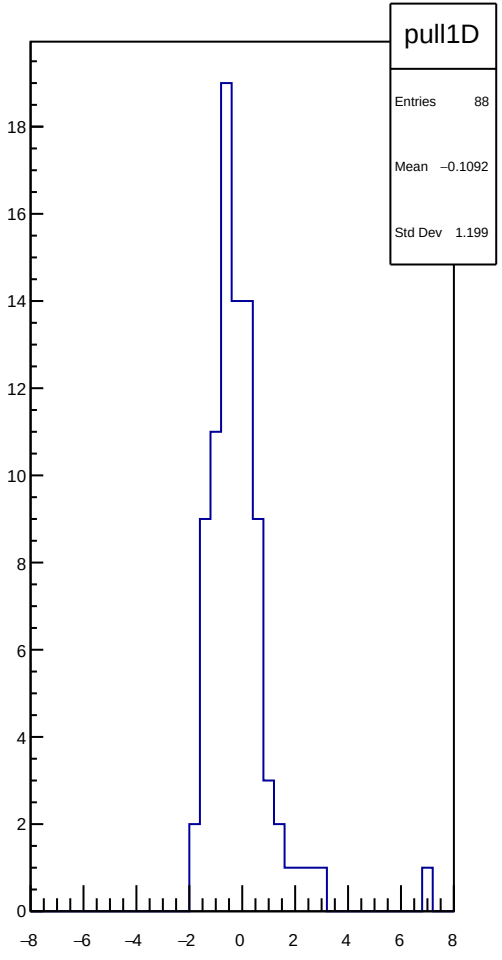

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 103 / 87
p0 6.35 ± 0.9416
pull
Entries 88
Mean −809.1
Std Dev 845.3

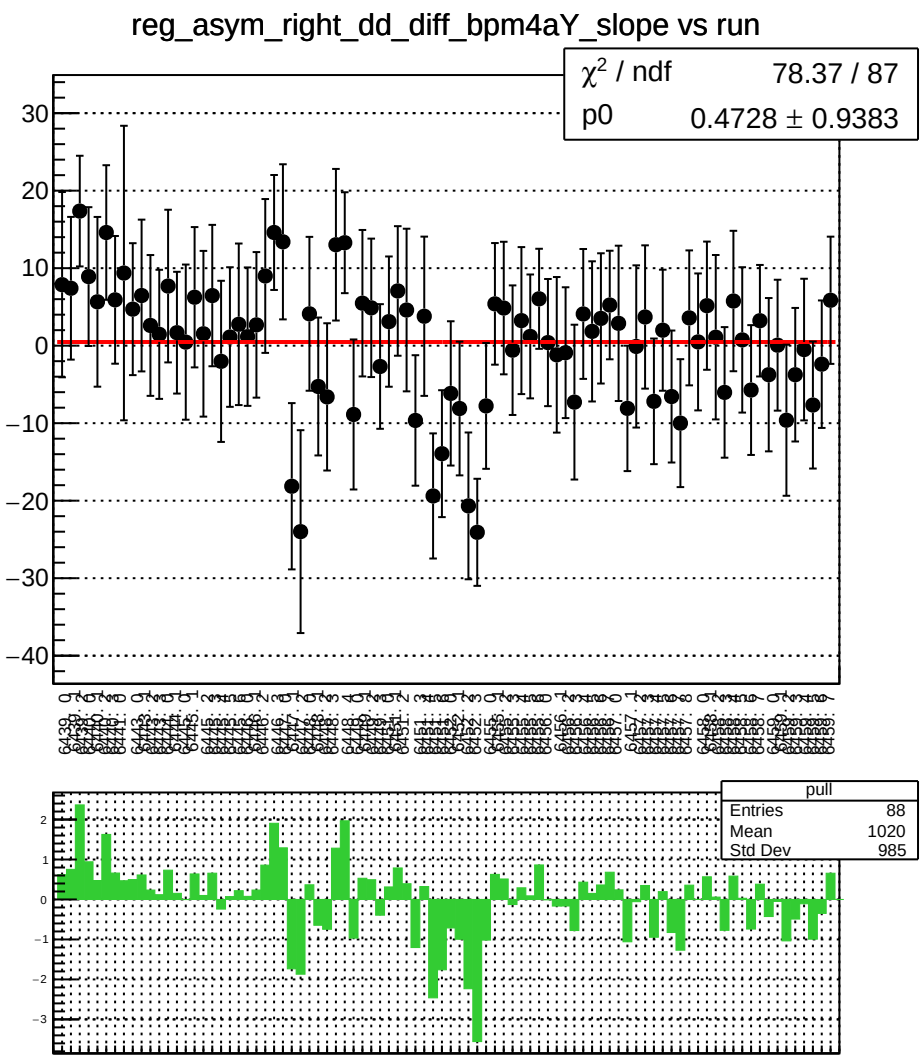

pull1D
Entries 88
Mean −0.01488
Std Dev 1.082

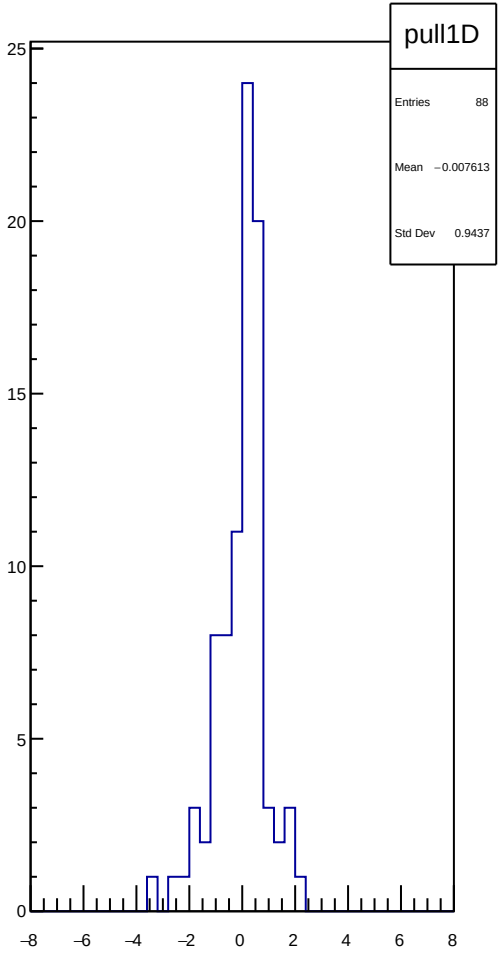

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 128.6 / 87
p0 −24.08 ± 0.03896
pull
Entries 88
Mean −110.1
Std Dev 162

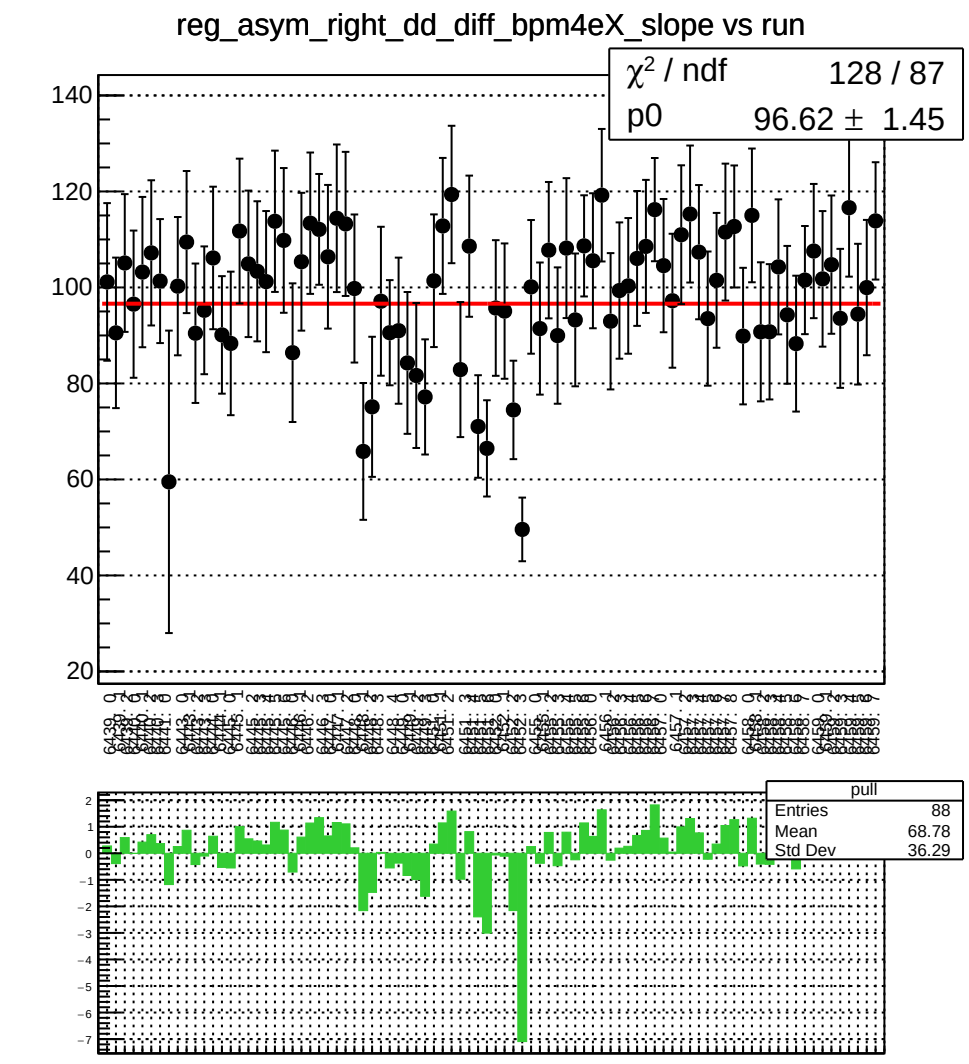

pull1D
Entries 88
Mean 0.02365
Std Dev 1.209

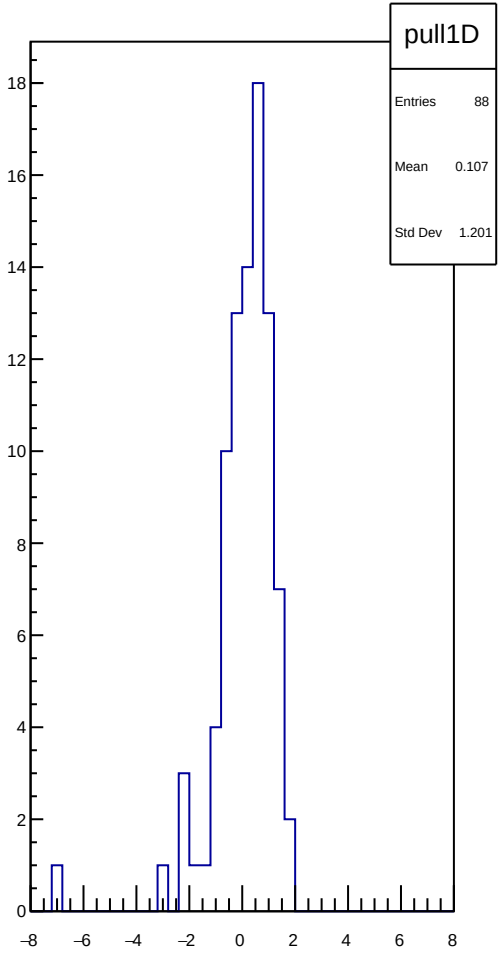

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 127.6 / 87
p0 −57.26 ± 1.336
pull
Entries 88
Mean 54.16
Std Dev 43.74

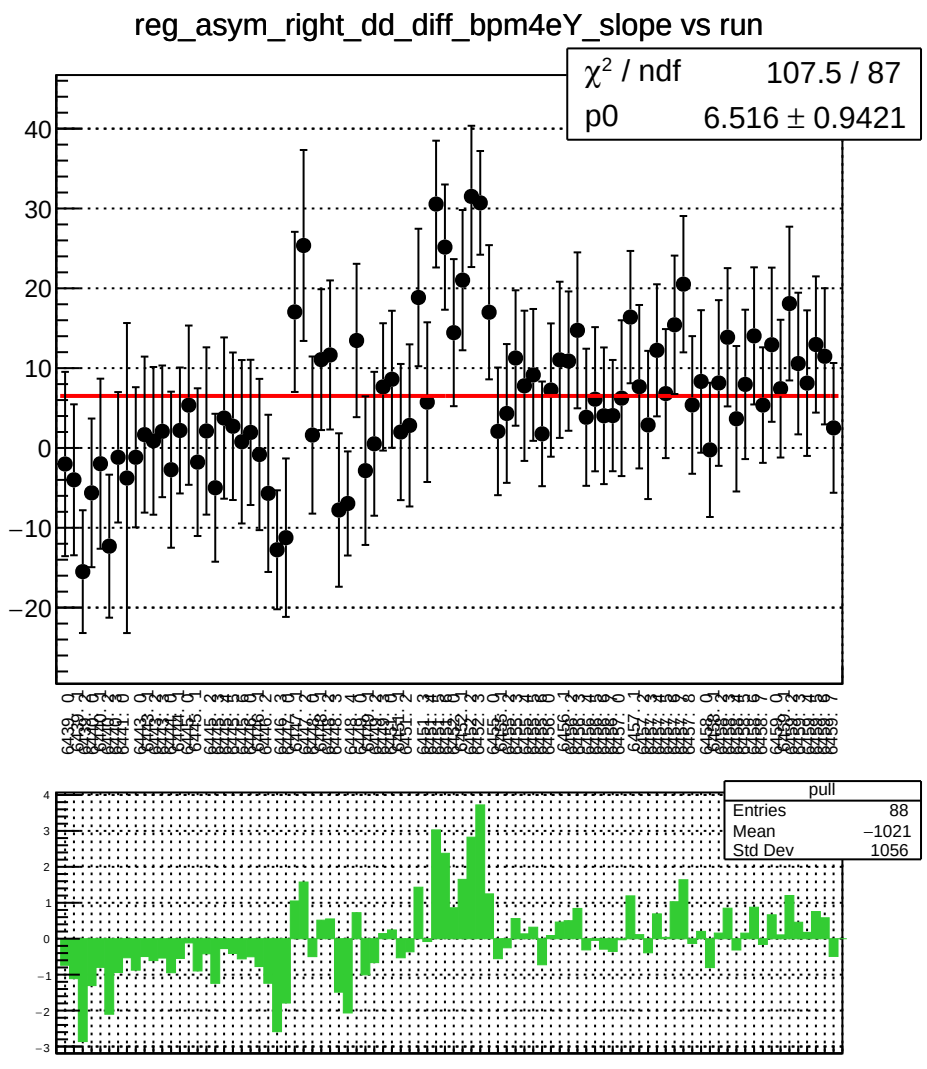

pull1D
Entries 88
Mean −0.1092
Std Dev 1.199

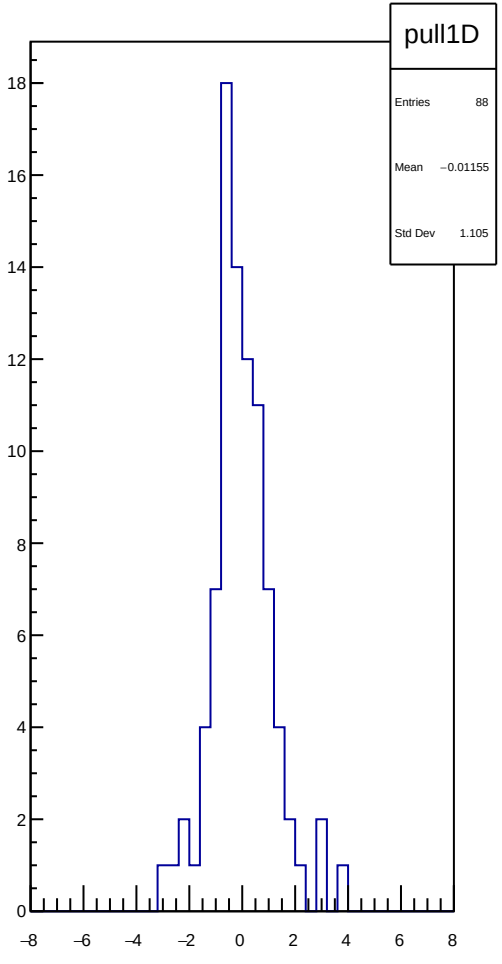

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.37 / 87
p0 0.4728 ± 0.9383
pull
Entries 88
Mean 1020
Std Dev 985

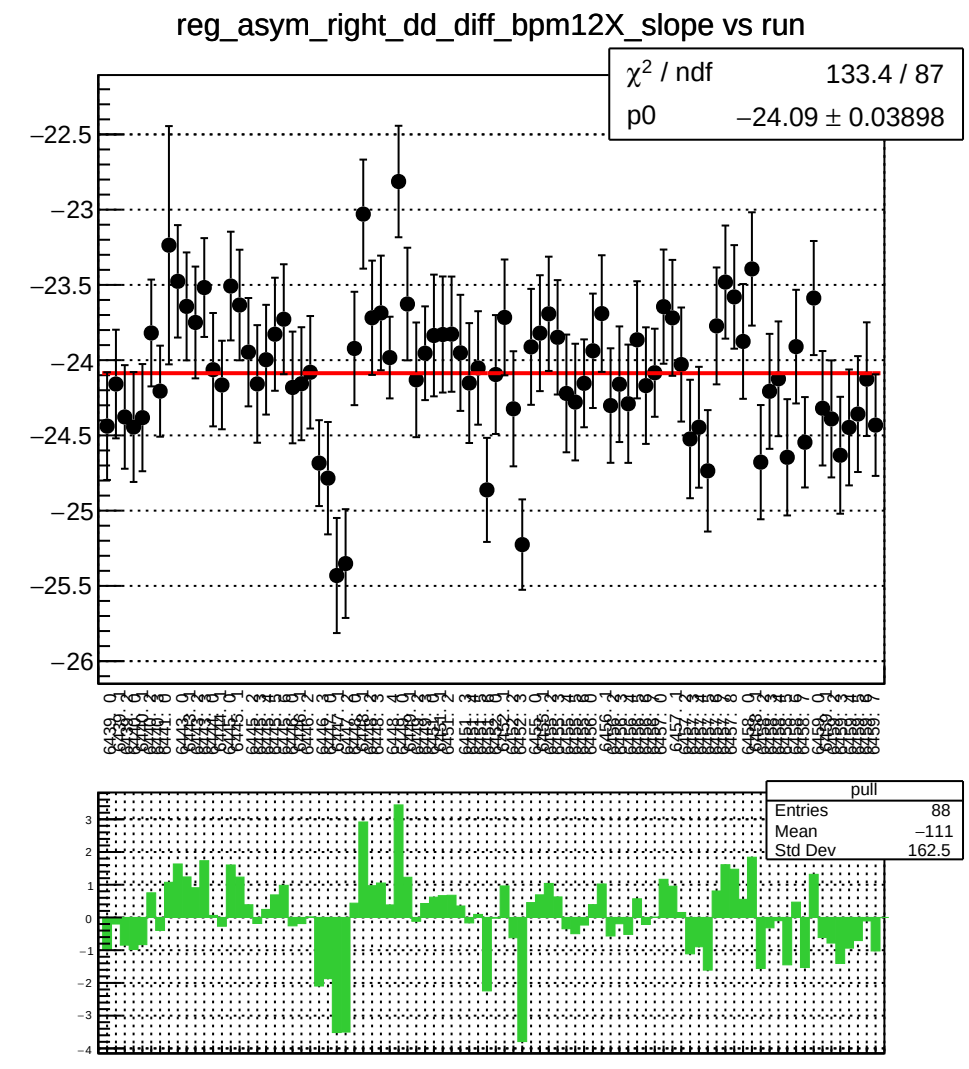

pull1D
Entries 88
Mean −0.007613
Std Dev 0.9437

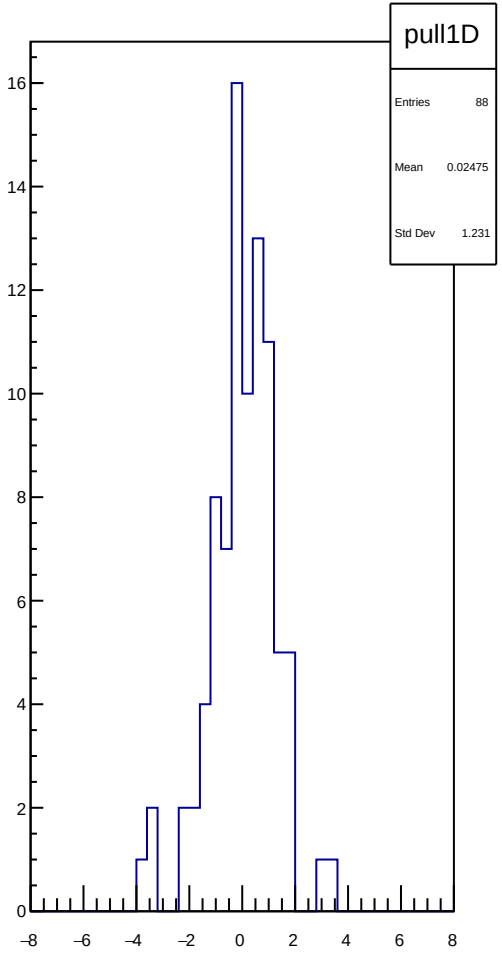

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 128 / 87
p0 96.62 ± 1.45
pull
Entries 88
Mean 68.78
Std Dev 36.29

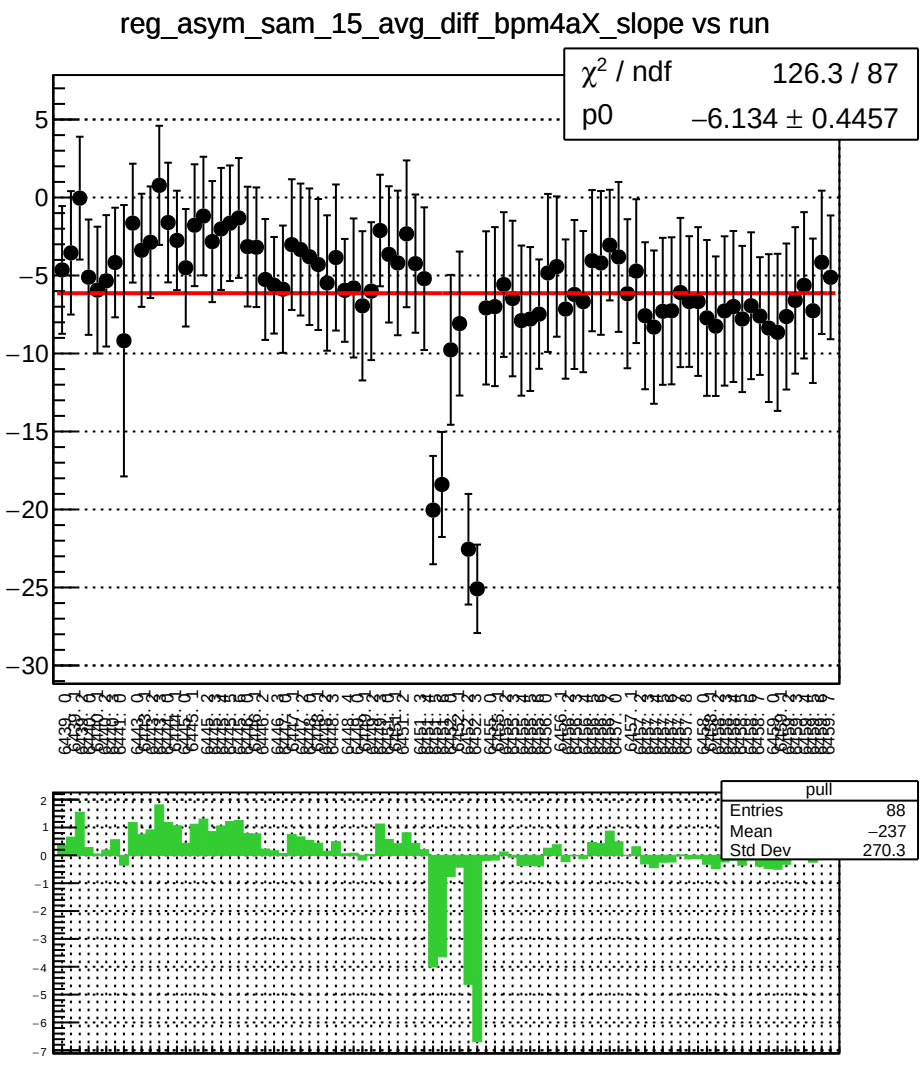

pull1D
Entries 88
Mean 0.107
Std Dev 1.201

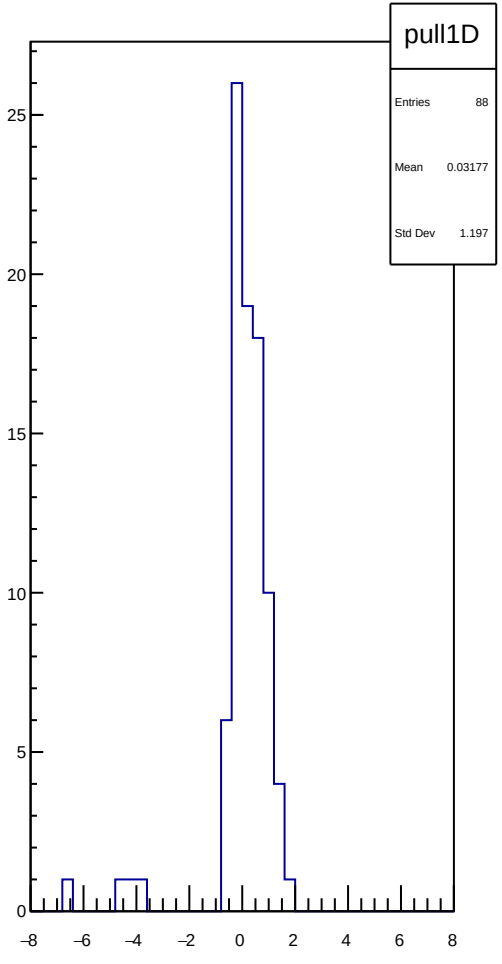

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 107.5 / 87
p0 6.516 ± 0.9421
pull
Entries 88
Mean −1021
Std Dev 1056

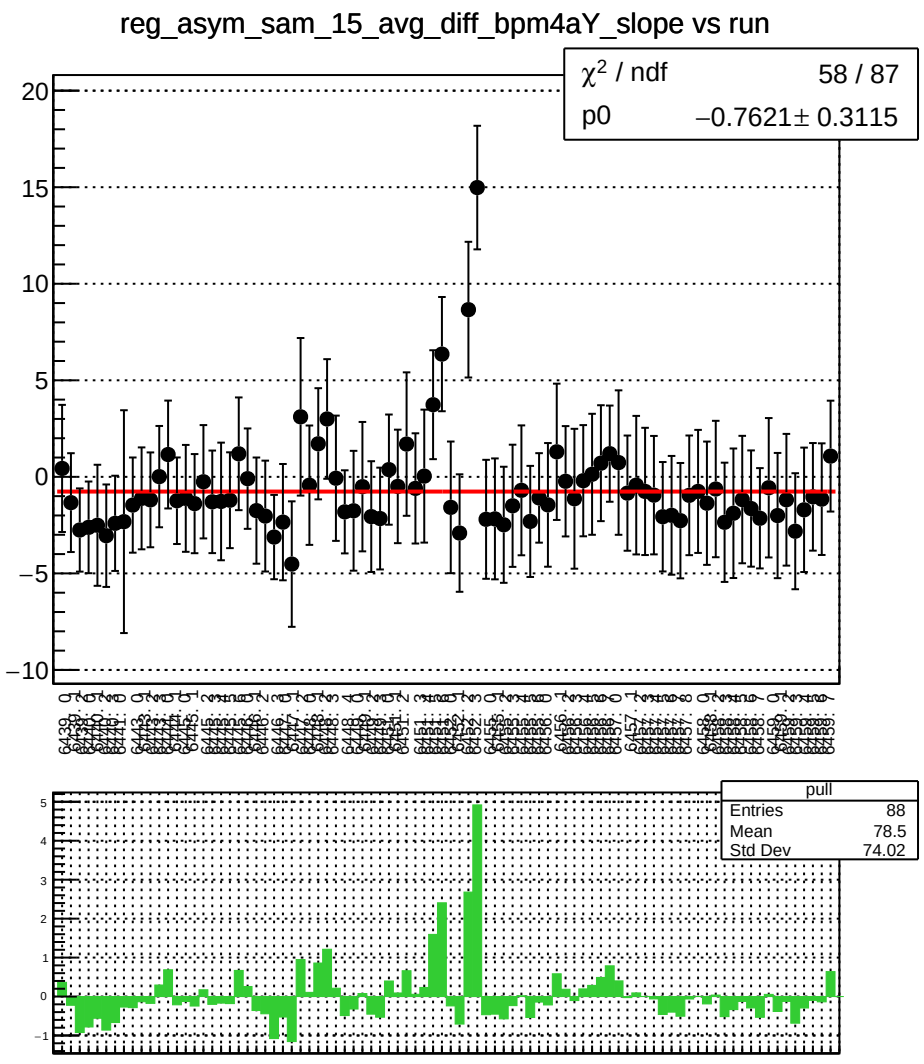

pull1D
Entries 88
Mean −0.01155
Std Dev 1.105

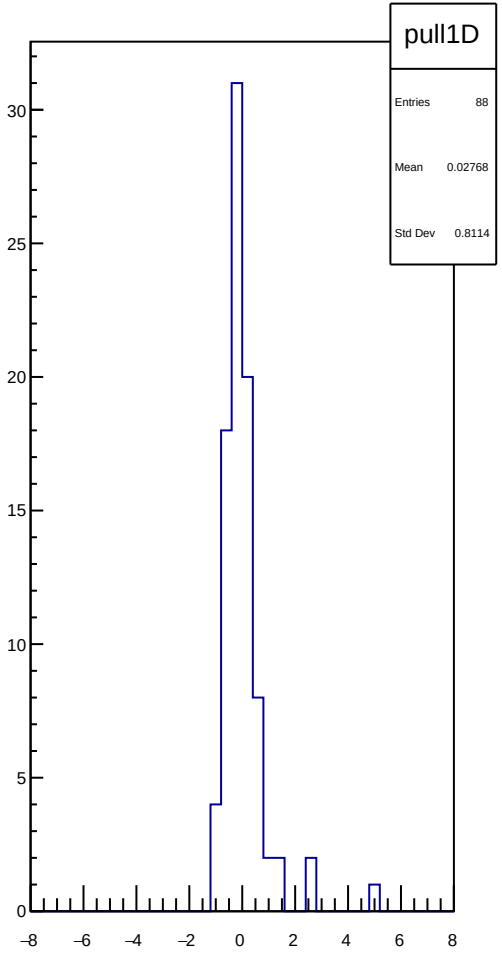

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 133.4 / 87
p0 −24.09 ± 0.03898
pull
Entries 88
Mean −111
Std Dev 162.5

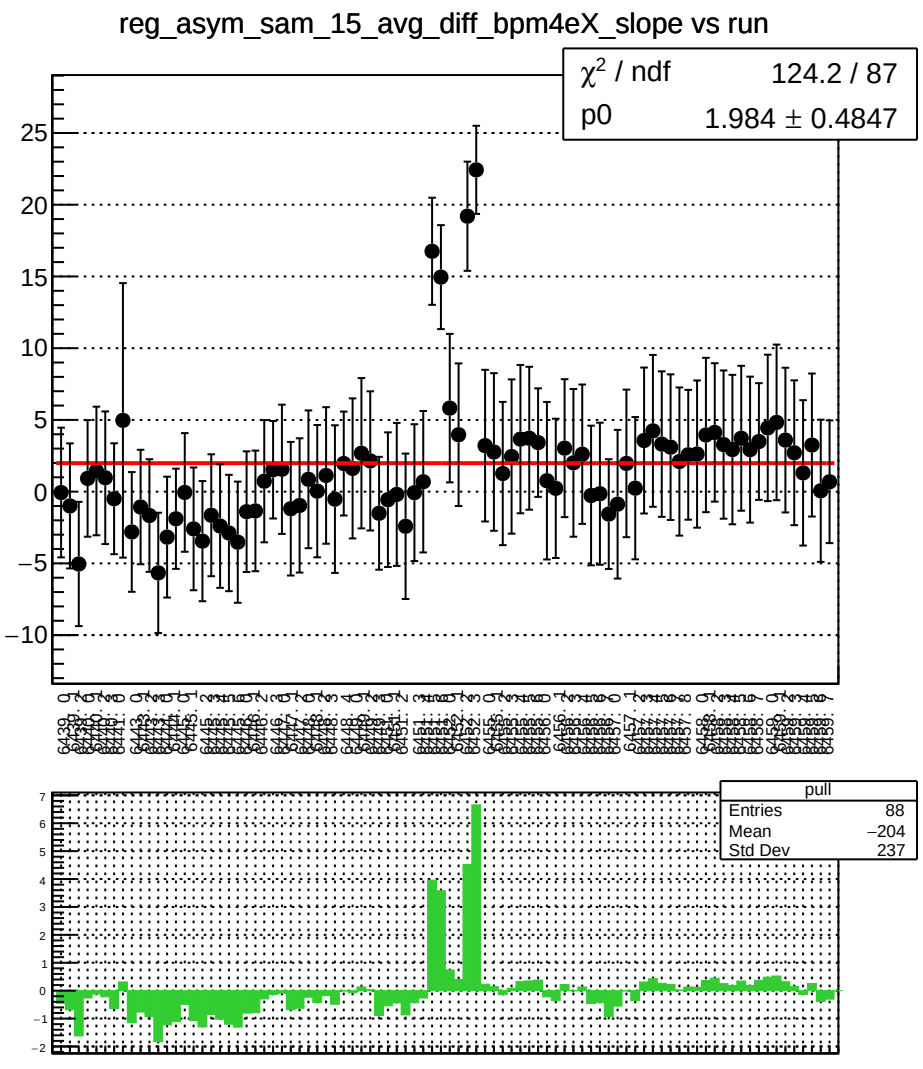

pull1D
Entries 88
Mean 0.02475
Std Dev 1.231

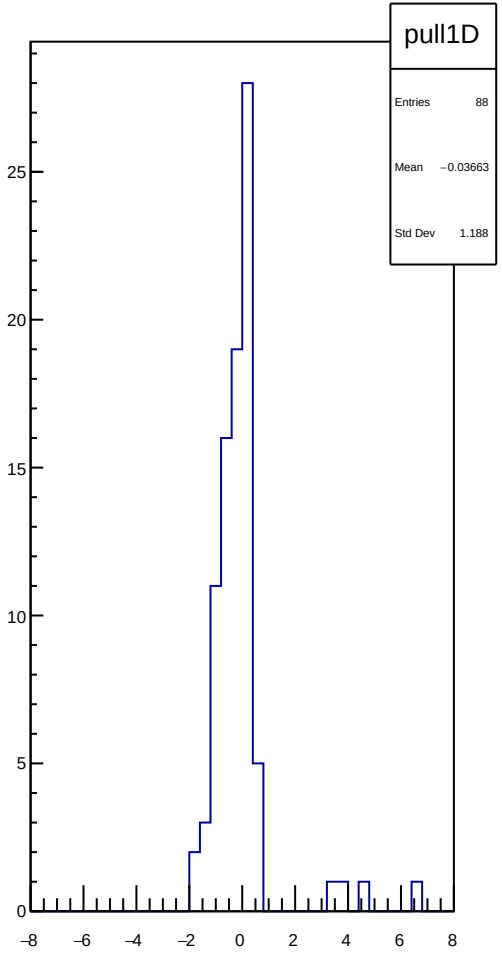

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 126.3 / 87
p0 −6.134 ± 0.4457
pull
Entries 88
Mean −237
Std Dev 270.3

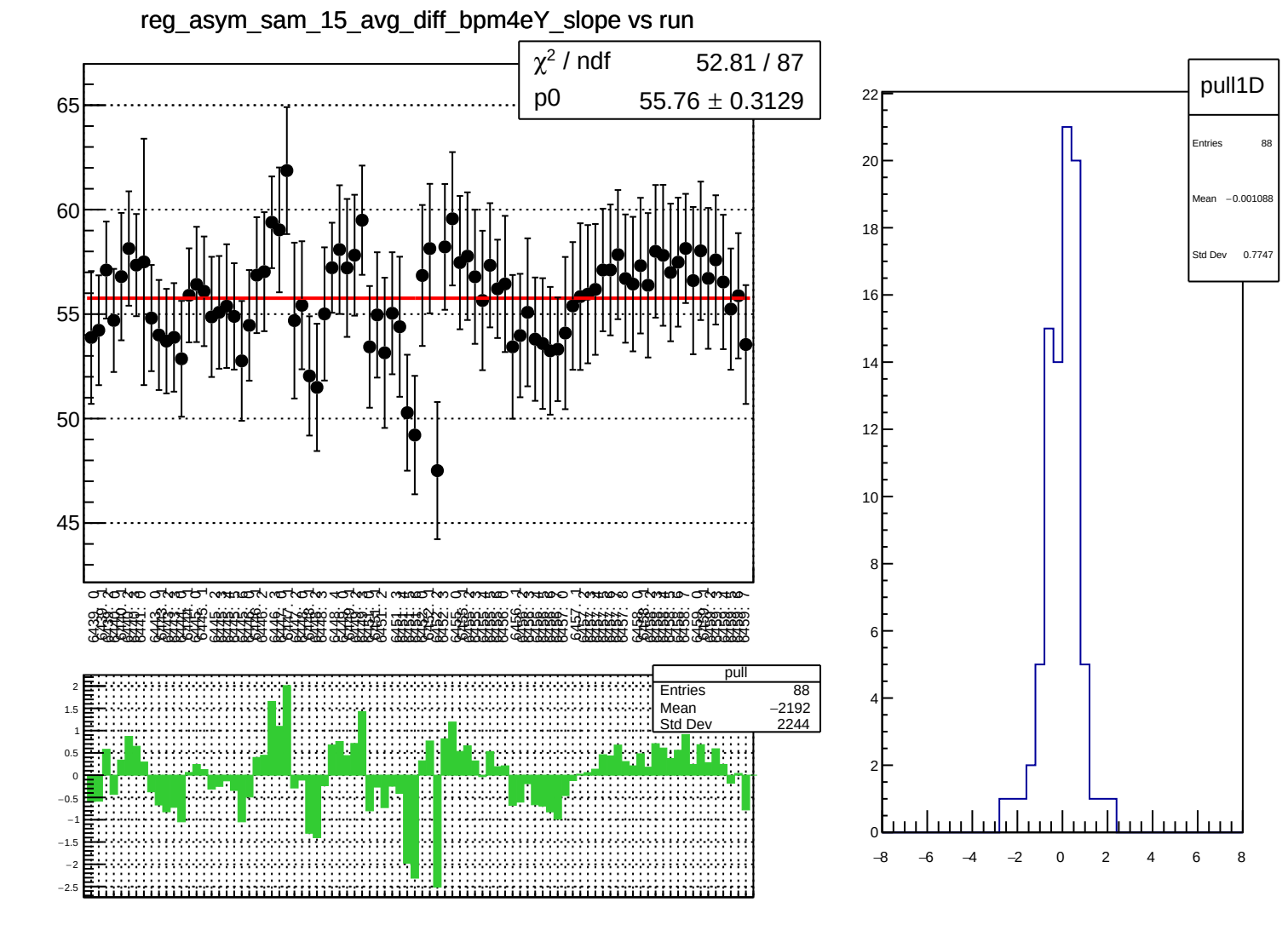

pull1D
Entries 88
Mean 0.03177
Std Dev 1.197

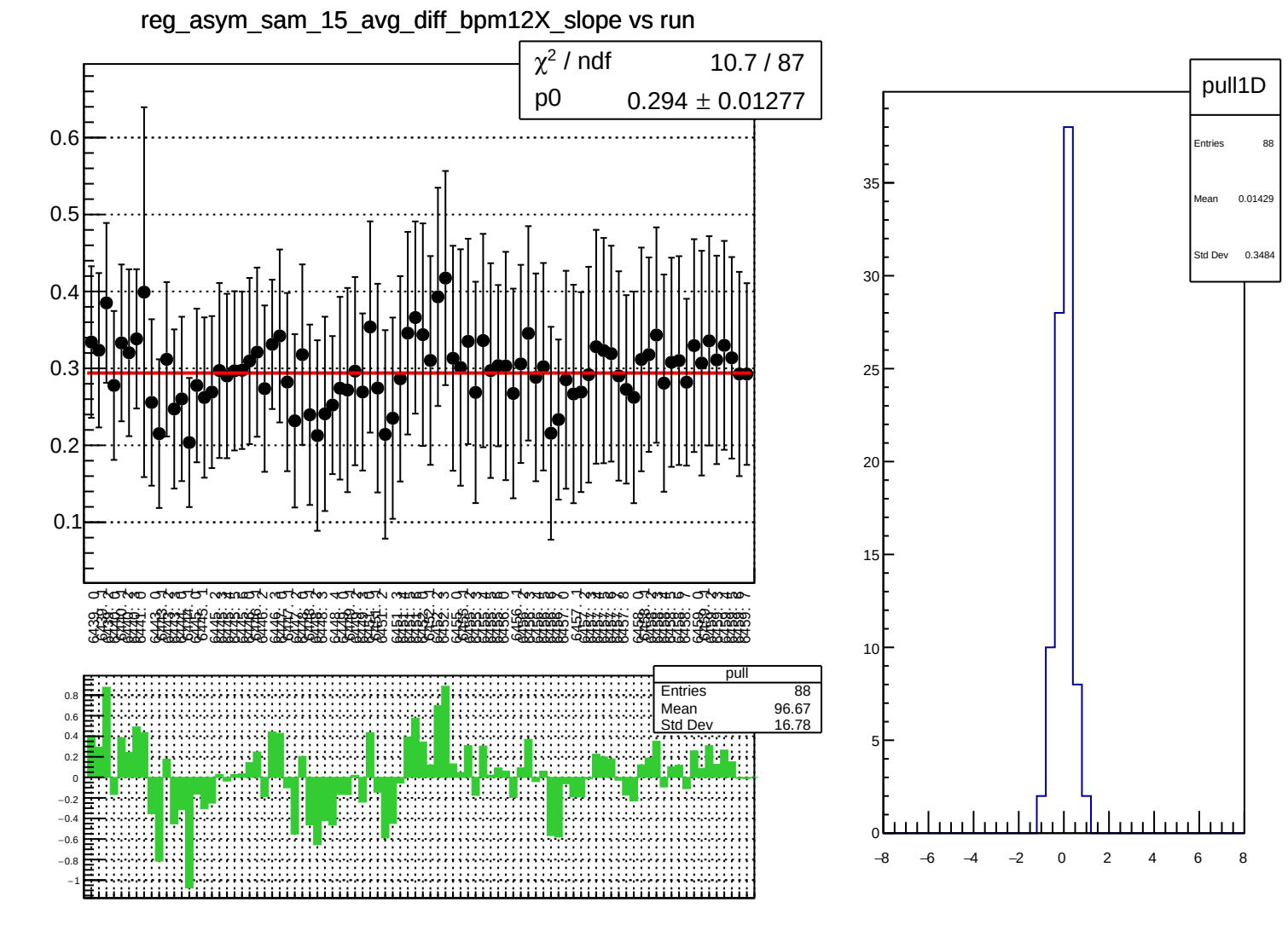

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 58 / 87
p0 −0.7621± 0.3115
pull
Entries 88
Mean 78.5
Std Dev 74.02

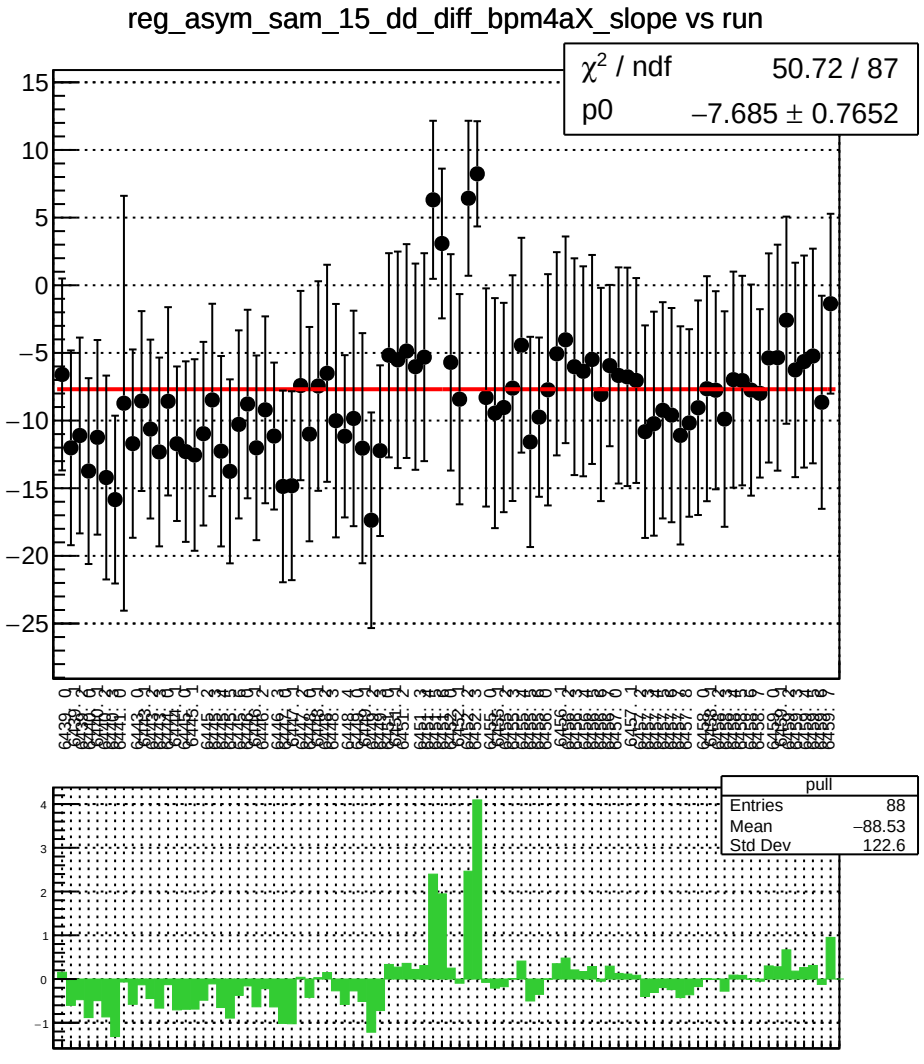

pull1D
Entries 88
Mean 0.02768
Std Dev 0.8114

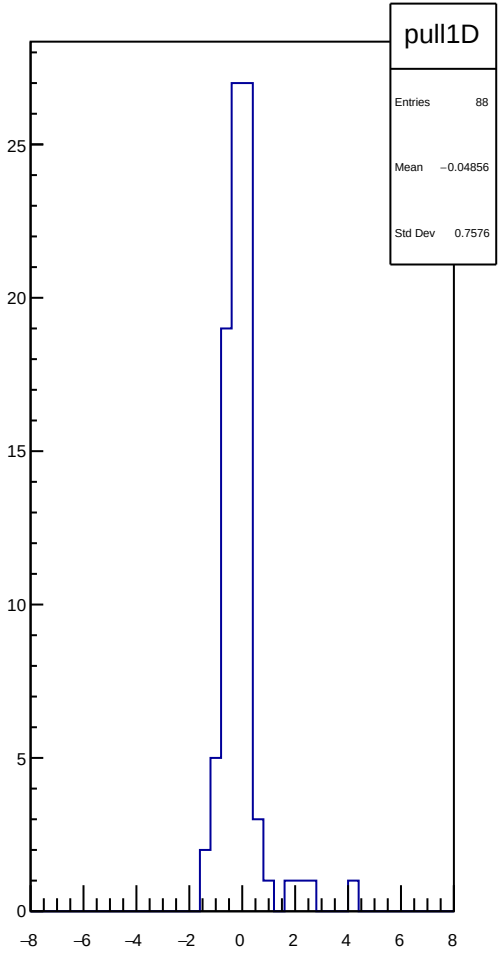

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 124.2 / 87
p0 1.984 ± 0.4847
pull
Entries 88
Mean −204
Std Dev 237

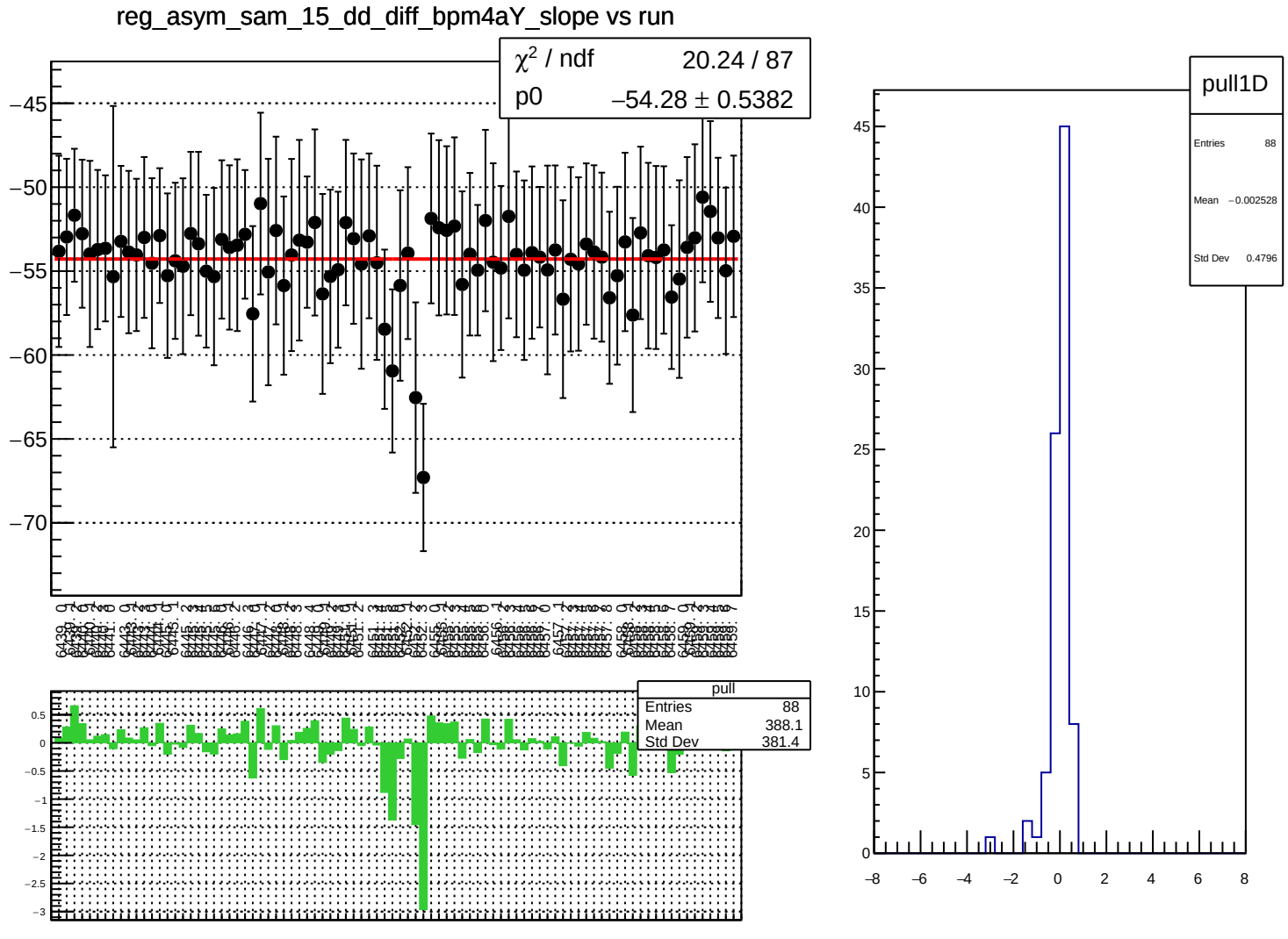

pull1D
Entries 88
Mean −0.03663
Std Dev 1.188

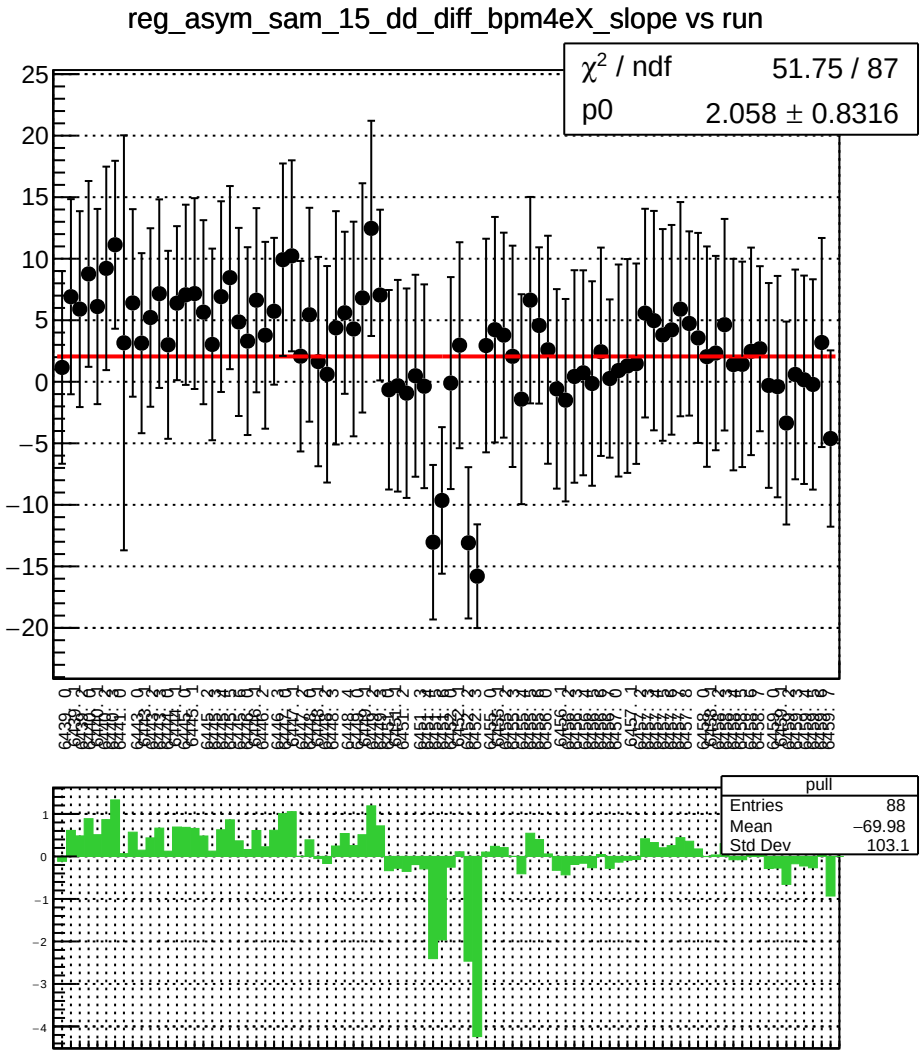

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 52.81 / 87
p0 55.76 ± 0.3129
pull
Entries 88
Mean −2192
Std Dev 2244
pull1D
Entries 88
Mean −0.001088
Std Dev 0.7747

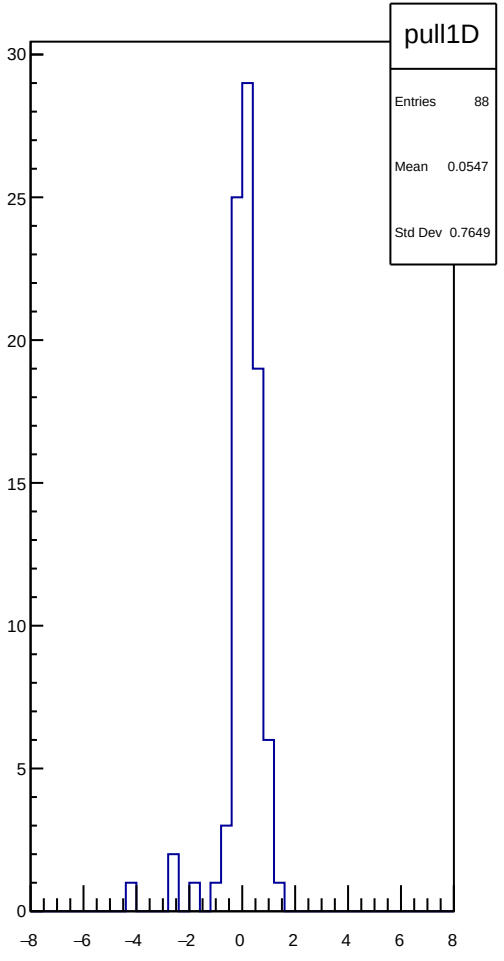

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 10.7 / 87
p0 0.294 ± 0.01277
pull
Entries 88
Mean 96.67
Std Dev 16.78
pull1D
Entries 88
Mean 0.01429
Std Dev 0.3484

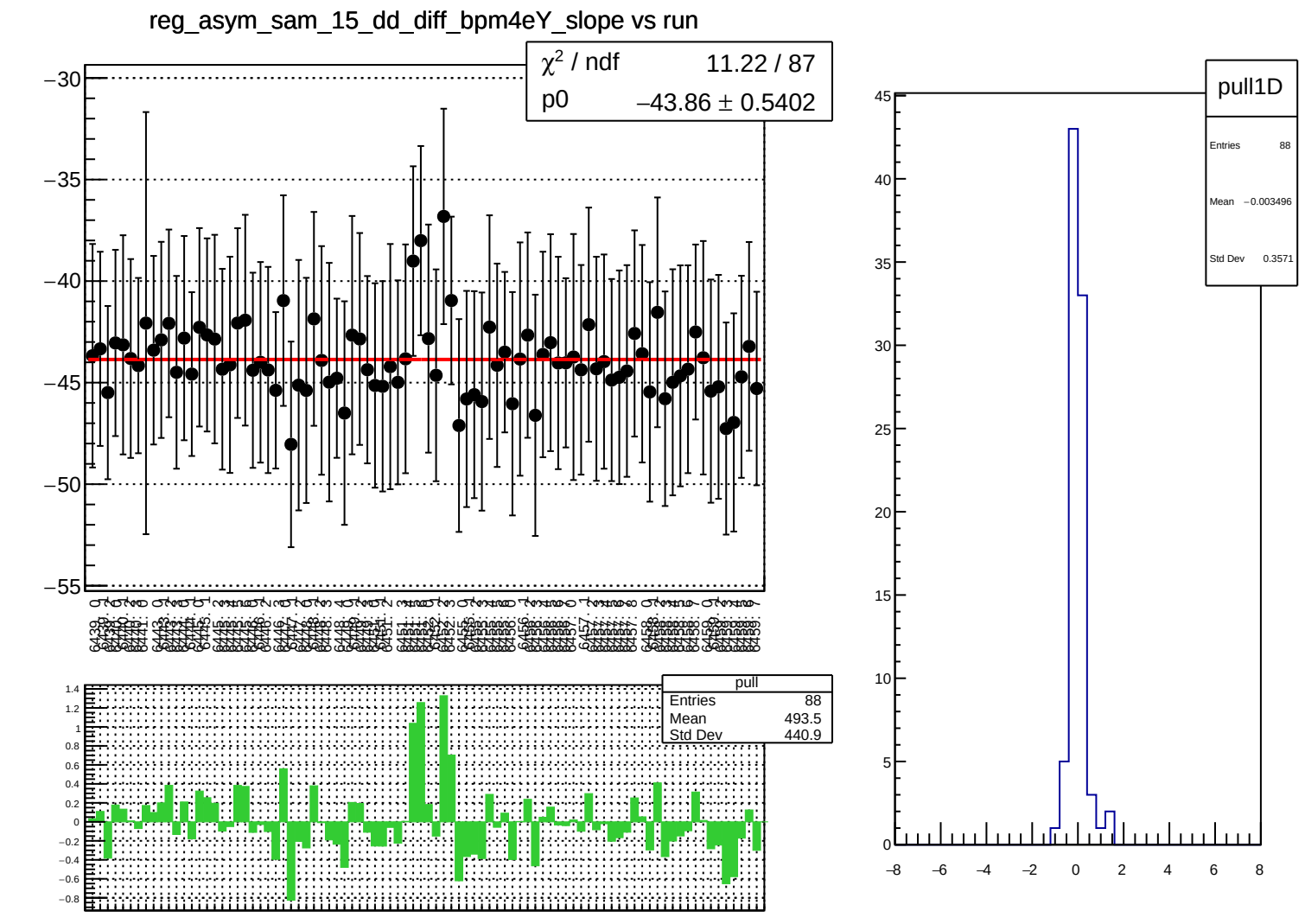

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 50.72 / 87
p0 −7.685 ± 0.7652
pull
Entries 88
Mean −88.53
Std Dev 122.6

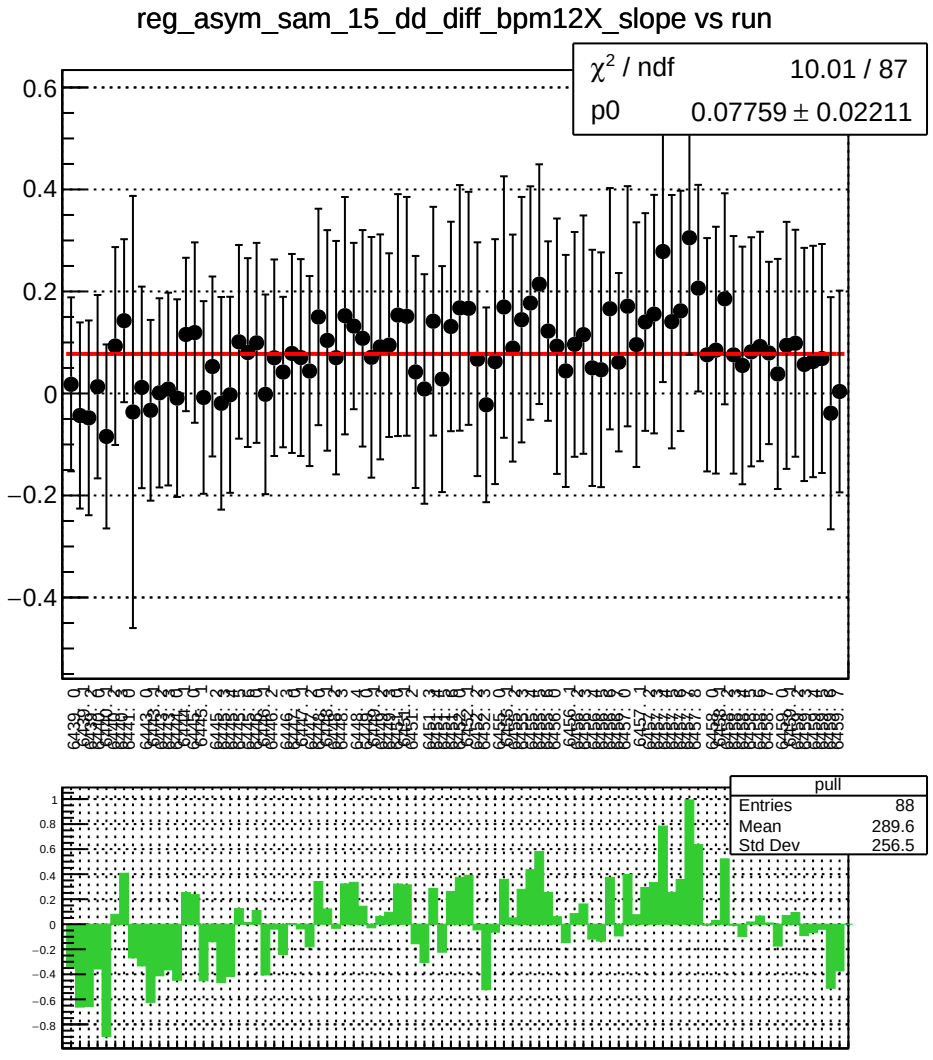

pull1D
Entries 88
Mean −0.04856
Std Dev 0.7576

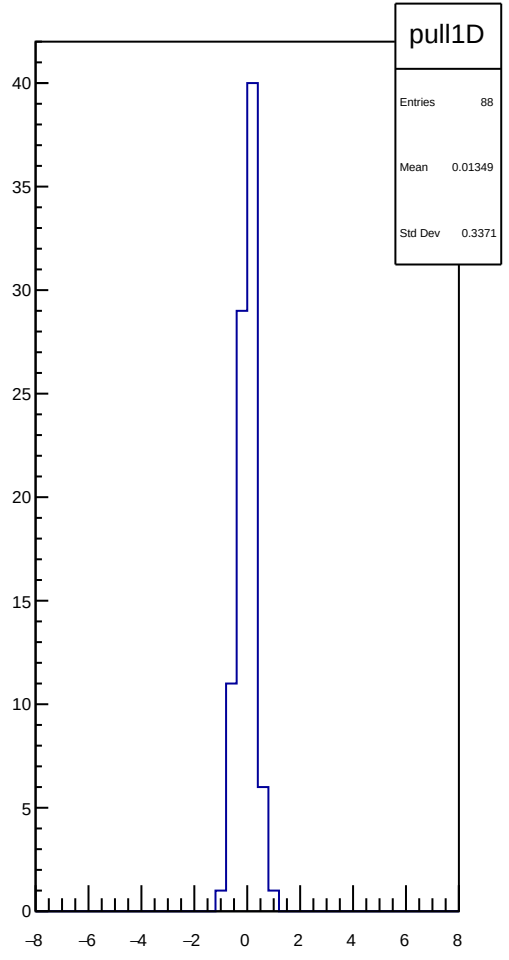

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.24 / 87
p0 −54.28 ± 0.5382
−45
−50
−55
−60
−65
−70
pull
Entries 88
Mean 388.1
Std Dev 381.4
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 88
Mean −0.002528
Std Dev 0.4796
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

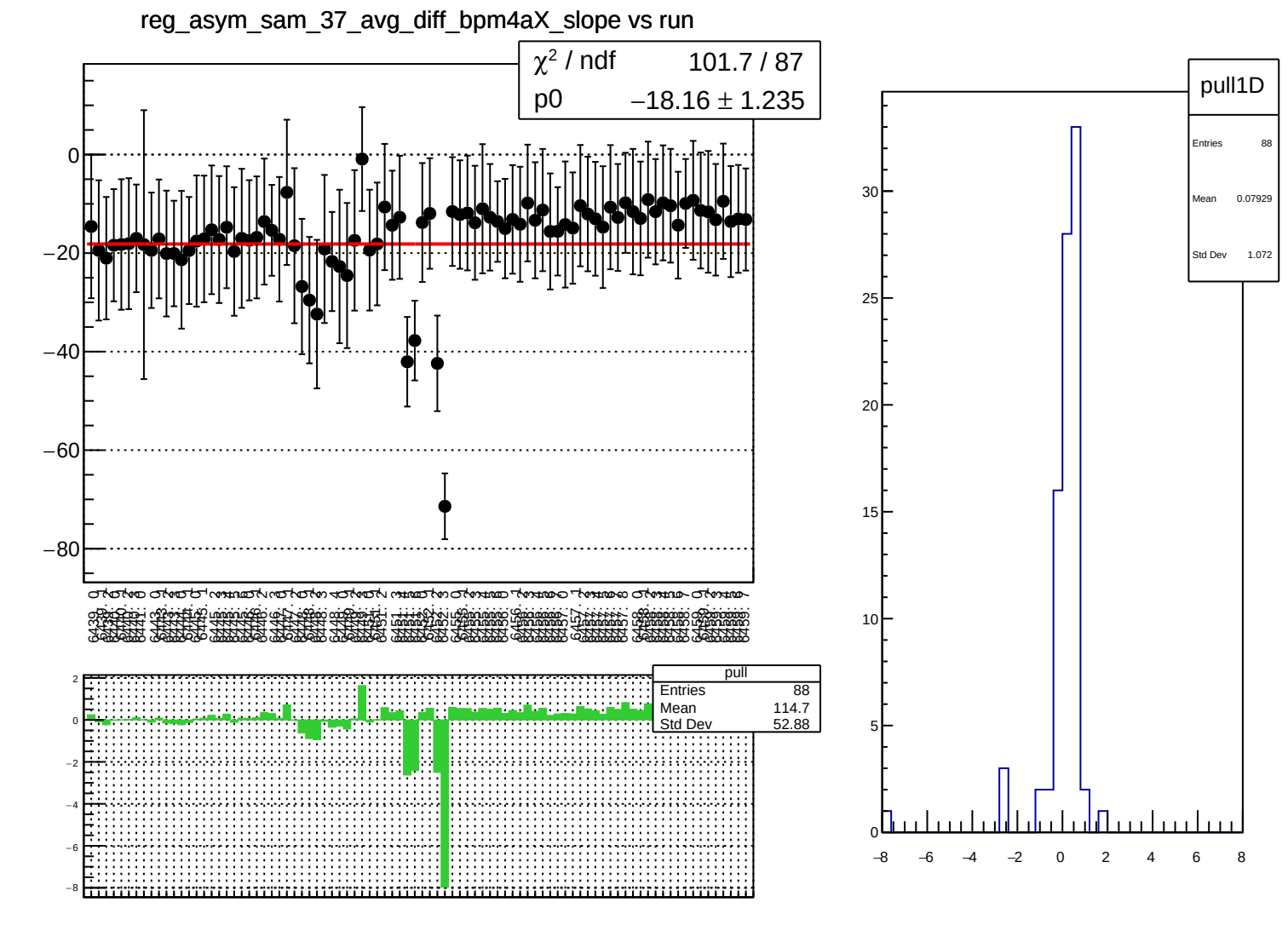

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.75 / 87
p0 2.058 ± 0.8316
pull
Entries 88
Mean −69.98
Std Dev 103.1

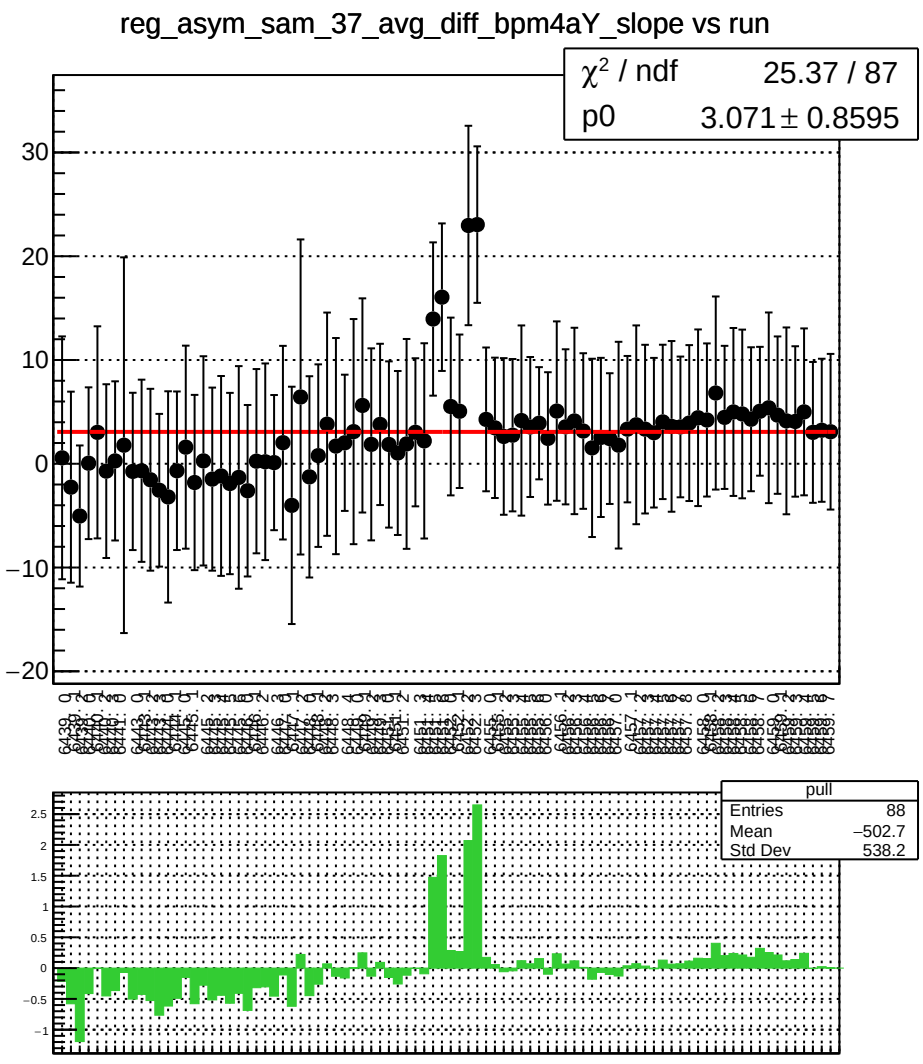

pull1D
Entries 88
Mean 0.0547
Std Dev 0.7649

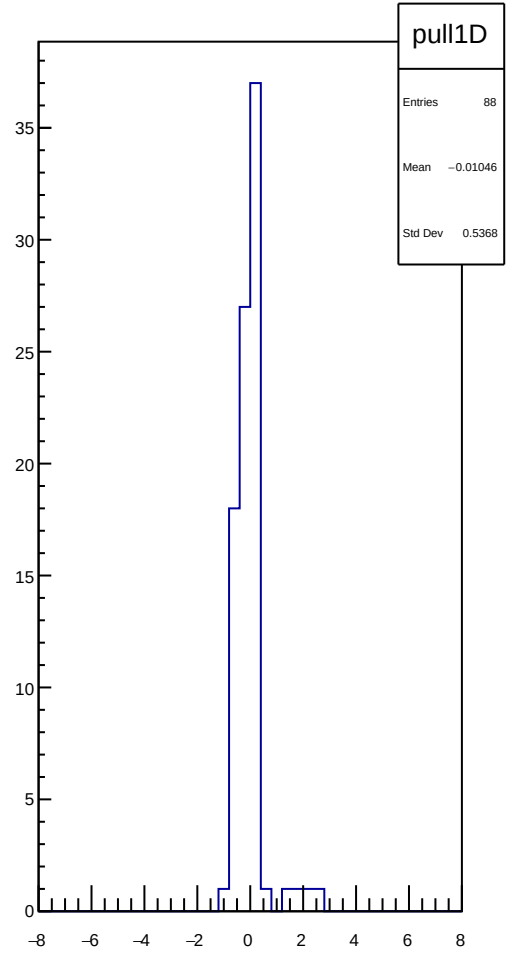

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.22 / 87
p0 −43.86 ± 0.5402
pull
Entries 88
Mean 493.5
Std Dev 440.9
pull1D
Entries 88
Mean −0.003496
Std Dev 0.3571

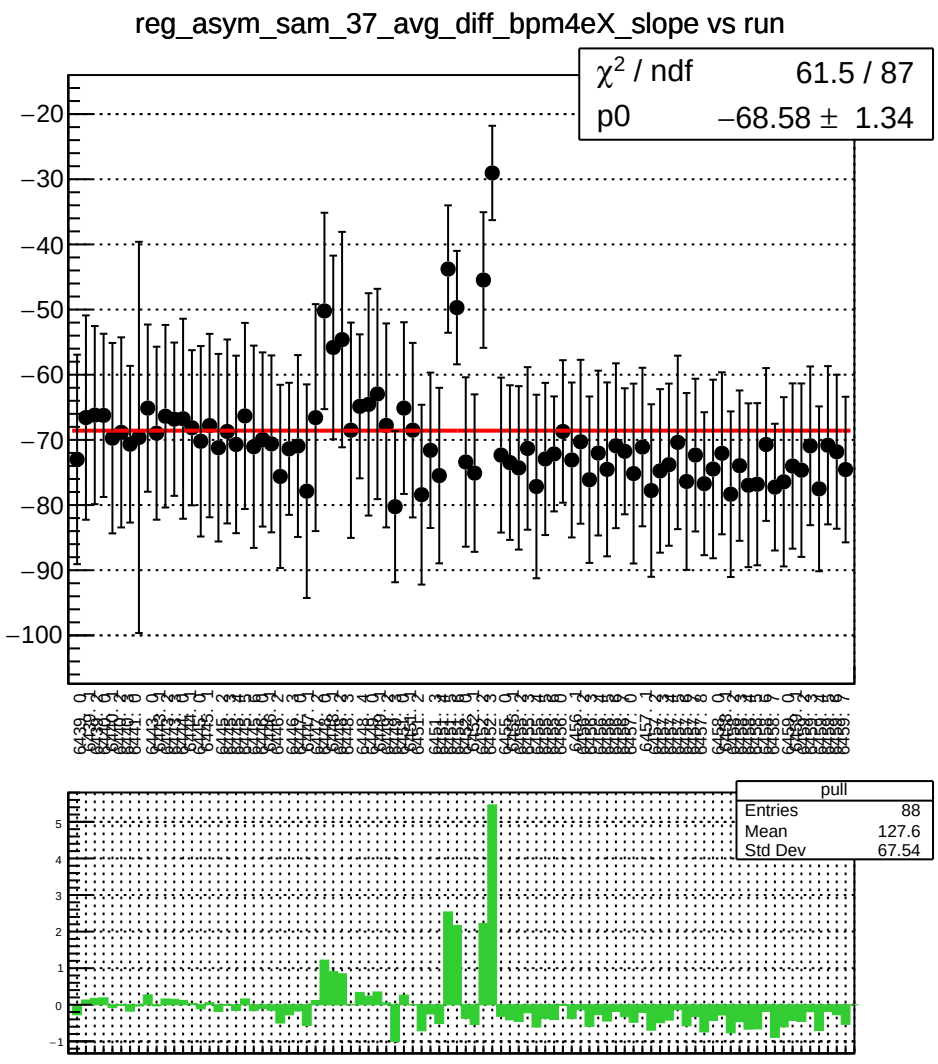

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 10.01 / 87
p0 0.07759 ± 0.02211
pull
Entries 88
Mean 289.6
Std Dev 256.5

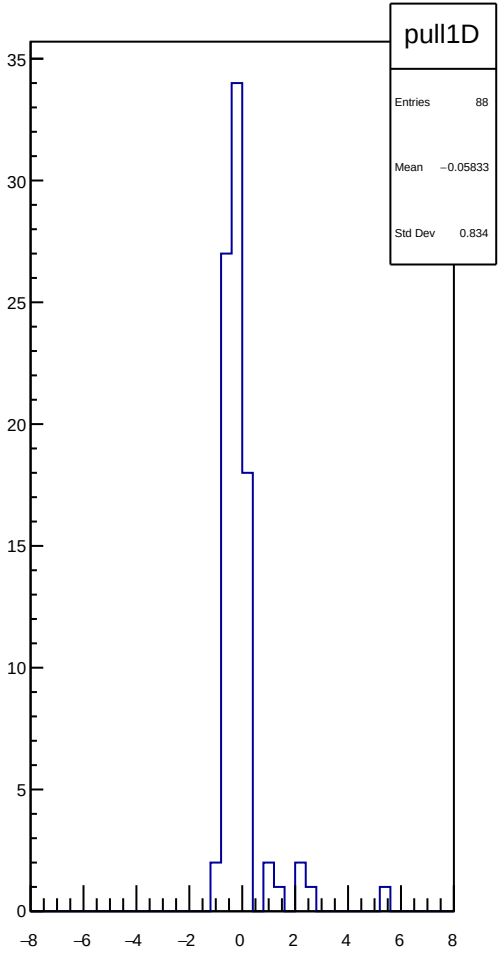

pull1D
Entries 88
Mean 0.01349
Std Dev 0.3371

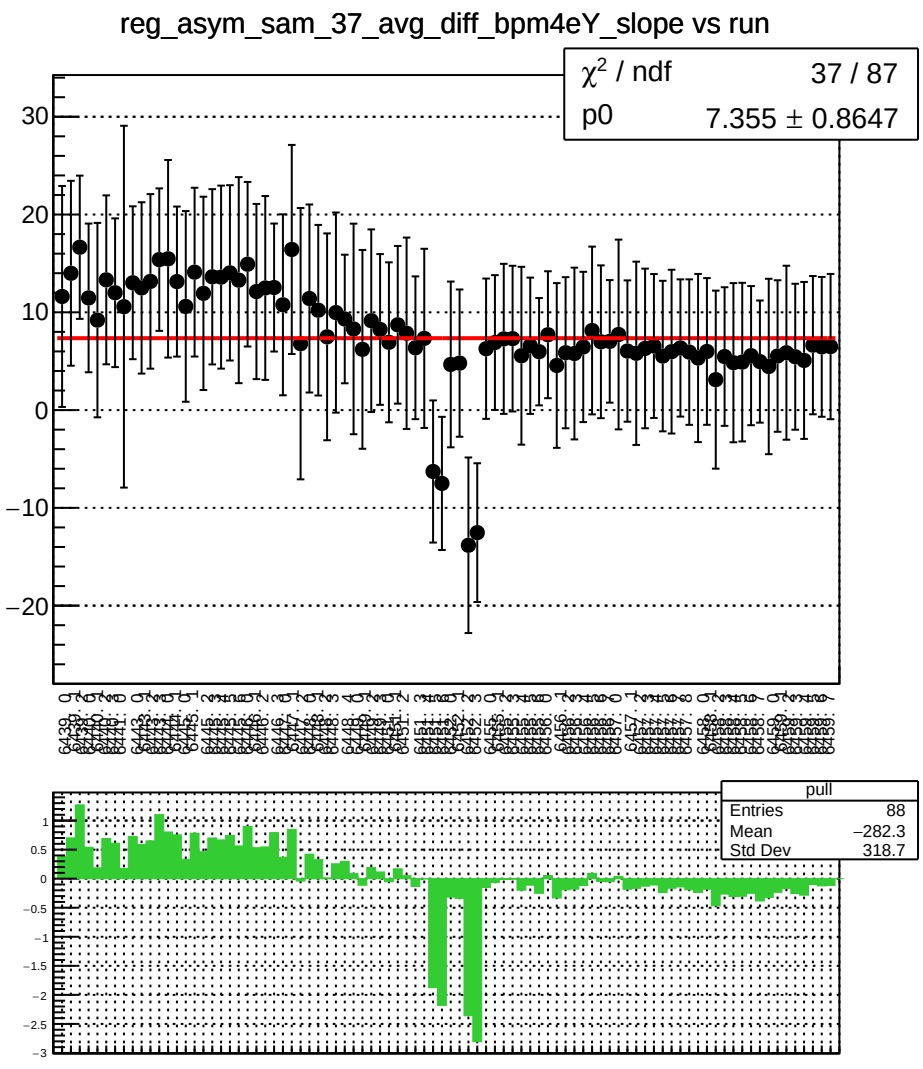

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 101.7 / 87
p0 −18.16 ± 1.235
0
−20
−40
−60
−80
pull
Entries 88
Mean 114.7
Std Dev 52.88
2
0
−2
−4
−6
−8
pull1D
Entries 88
Mean 0.07929
Std Dev 1.072
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

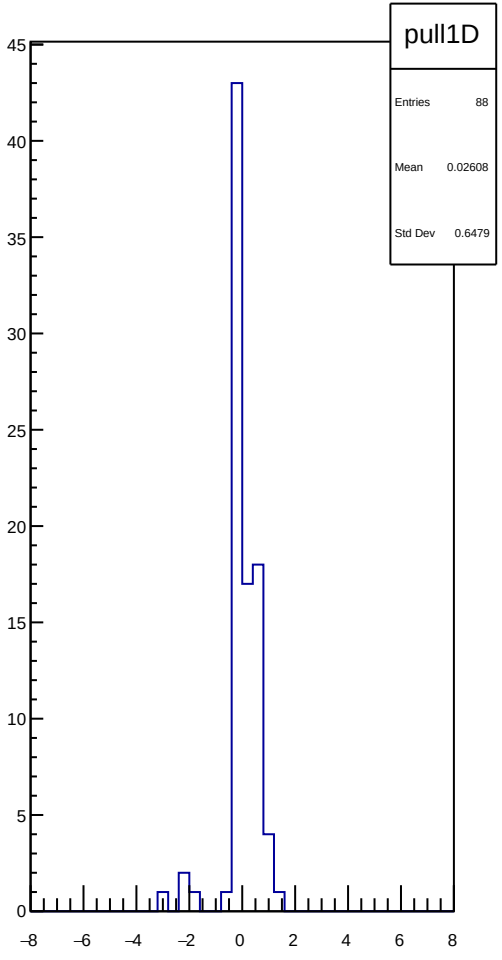

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.37 / 87
p0 3.071 ± 0.8595
pull
Entries 88
Mean −502.7
Std Dev 538.2

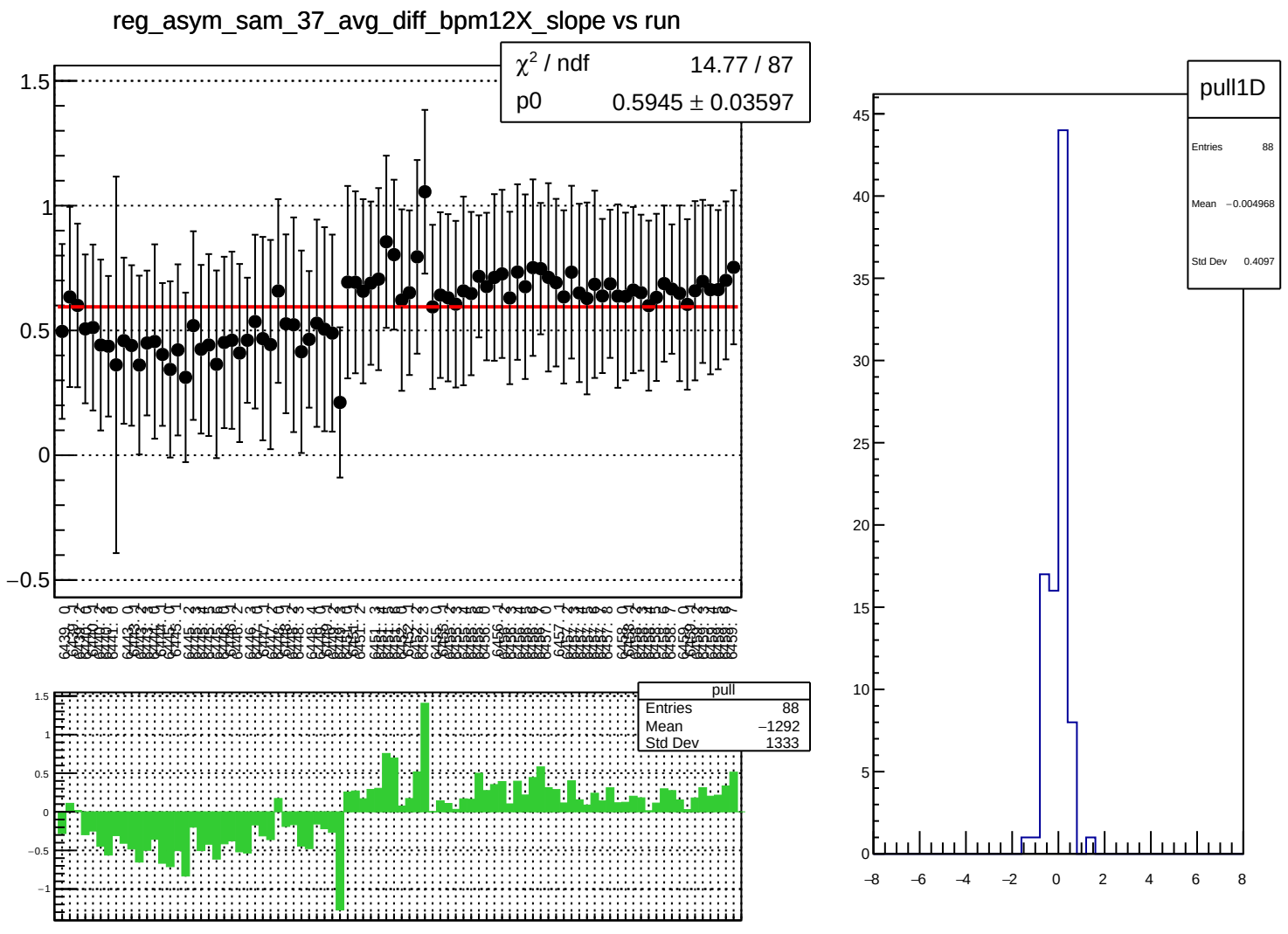

pull1D
Entries 88
Mean −0.01046
Std Dev 0.5368

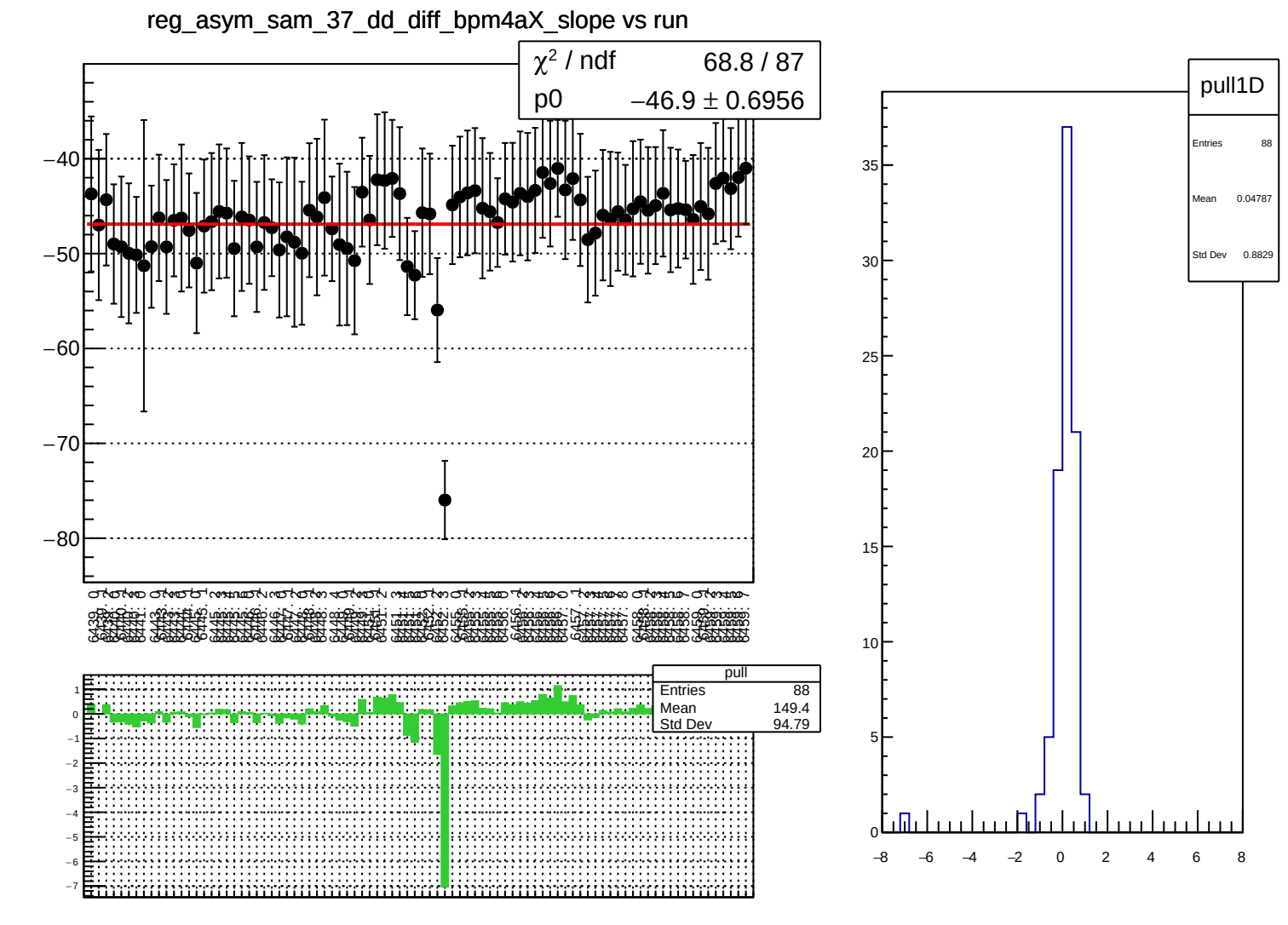

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.5 / 87
p0 −68.58 ± 1.34
pull
Entries 88
Mean 127.6
Std Dev 67.54

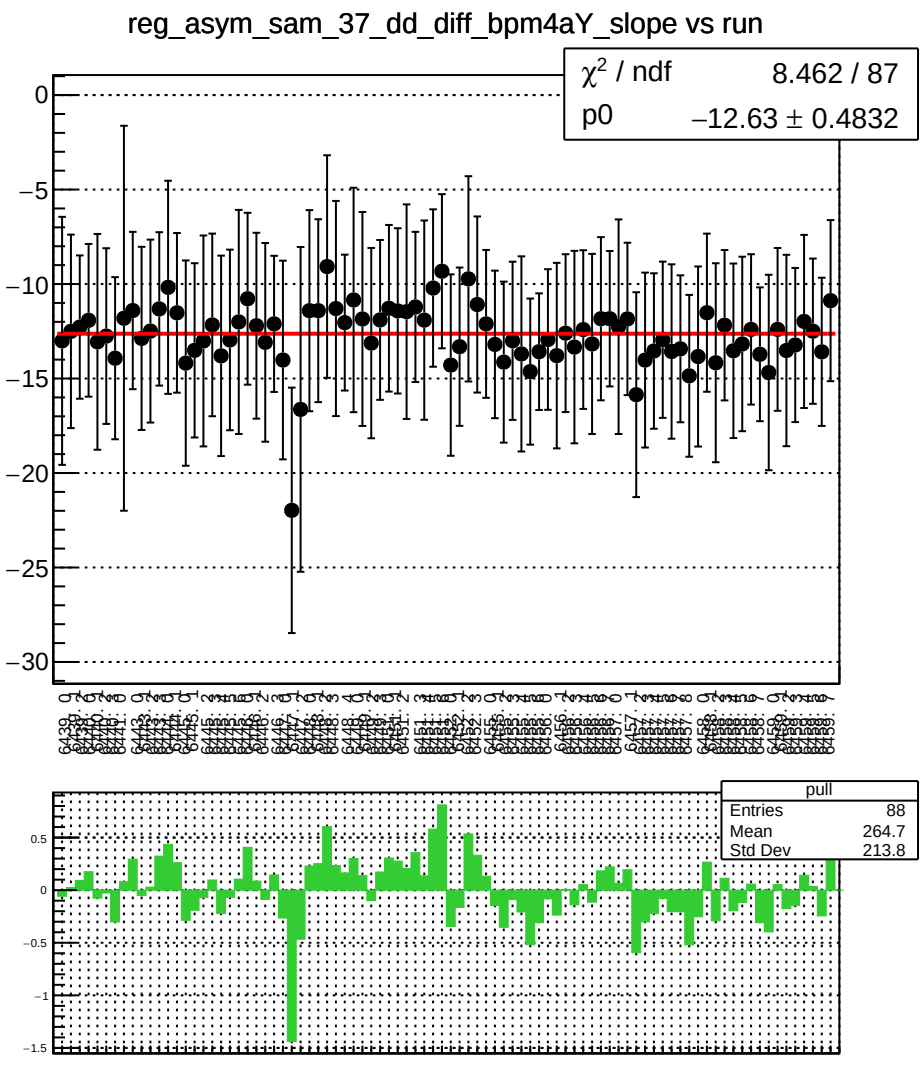

pull1D
Entries 88
Mean −0.05833
Std Dev 0.834

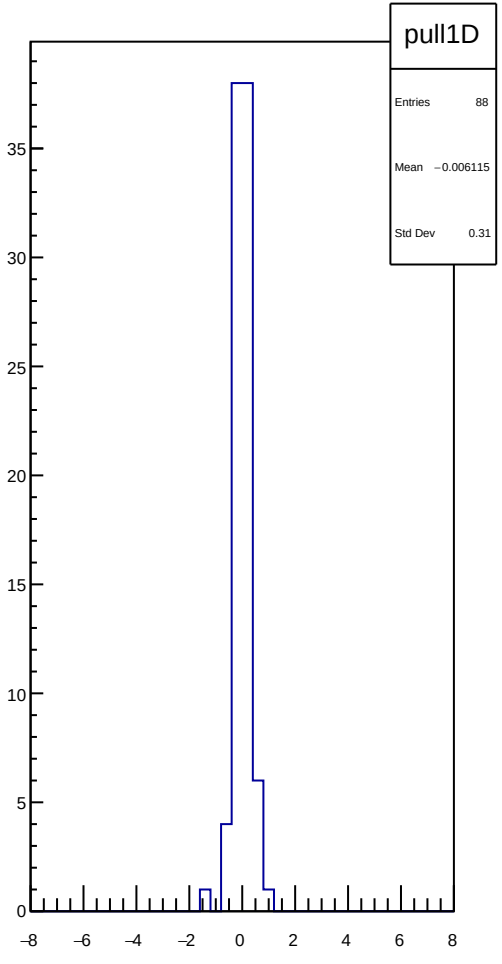

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 37 / 87
p0 7.355 ± 0.8647
pull
Entries 88
Mean −282.3
Std Dev 318.7

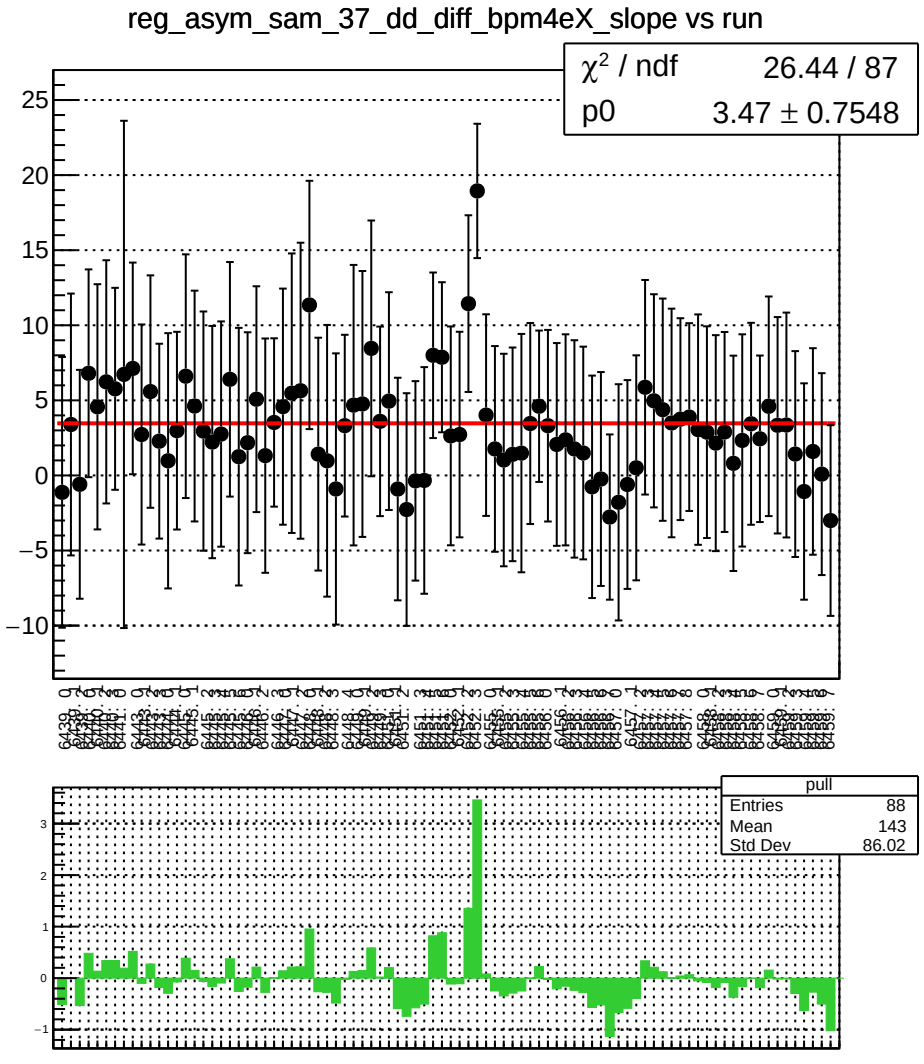

pull1D
Entries 88
Mean 0.02608
Std Dev 0.6479

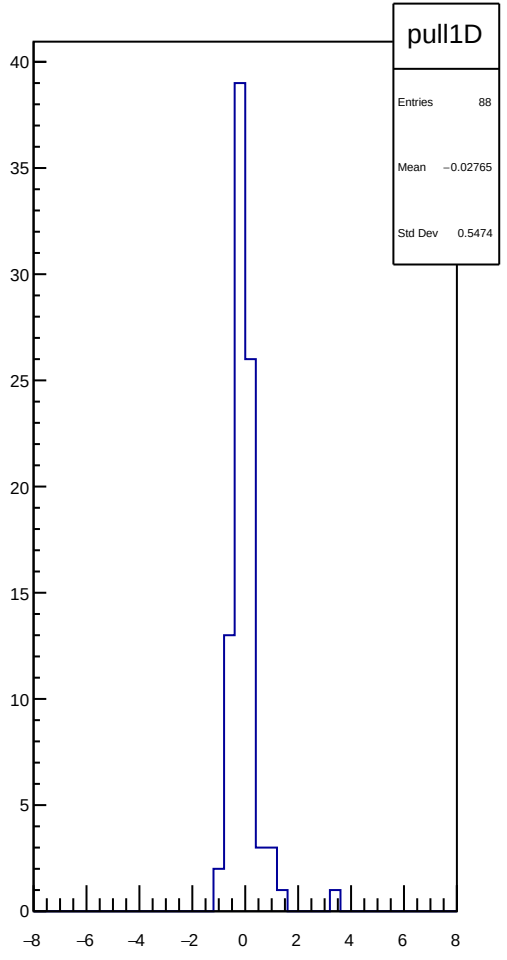

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 14.77 / 87
p0 0.5945 ± 0.03597
pull
Entries 88
Mean −1292
Std Dev 1333
pull1D
Entries 88
Mean −0.004968
Std Dev 0.4097

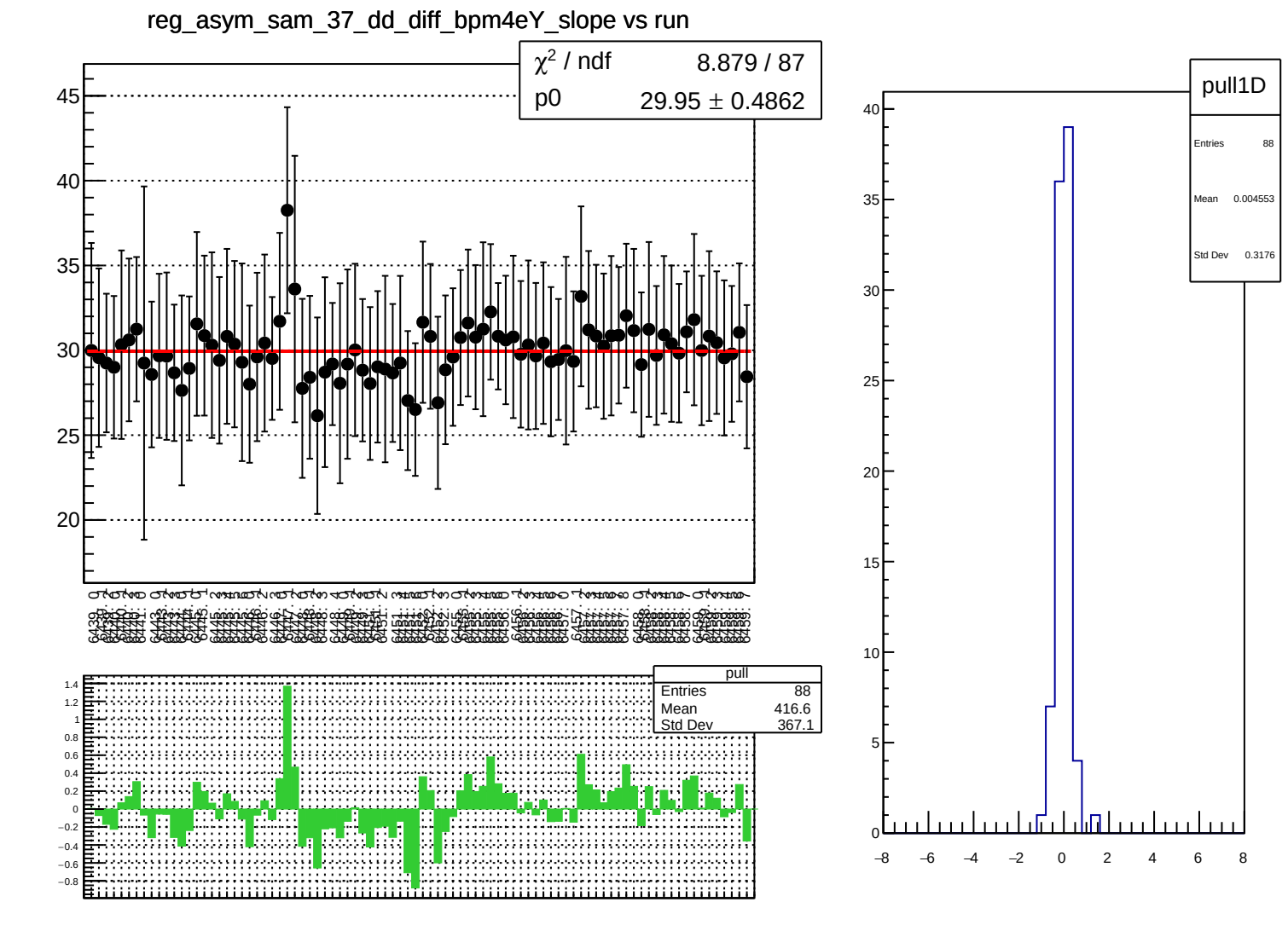

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 68.8 / 87
p0 −46.9 ± 0.6956
−40
−50
−60
−70
−80
pull
Entries 88
Mean 149.4
Std Dev 94.79
pull1D
Entries 88
Mean 0.04787
Std Dev 0.8829
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

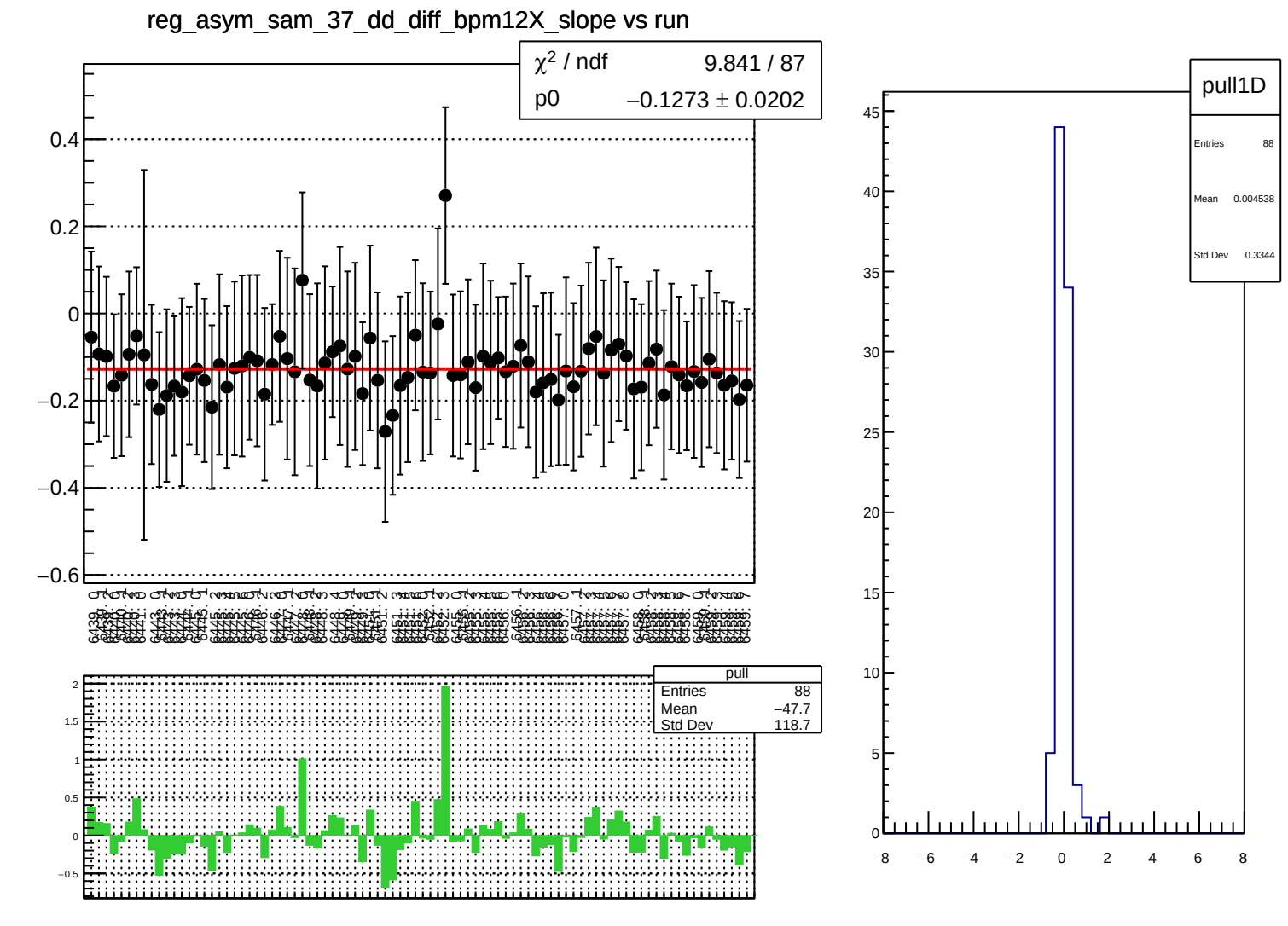

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.462 / 87
p0 −12.63 ± 0.4832
pull
Entries 88
Mean 264.7
Std Dev 213.8

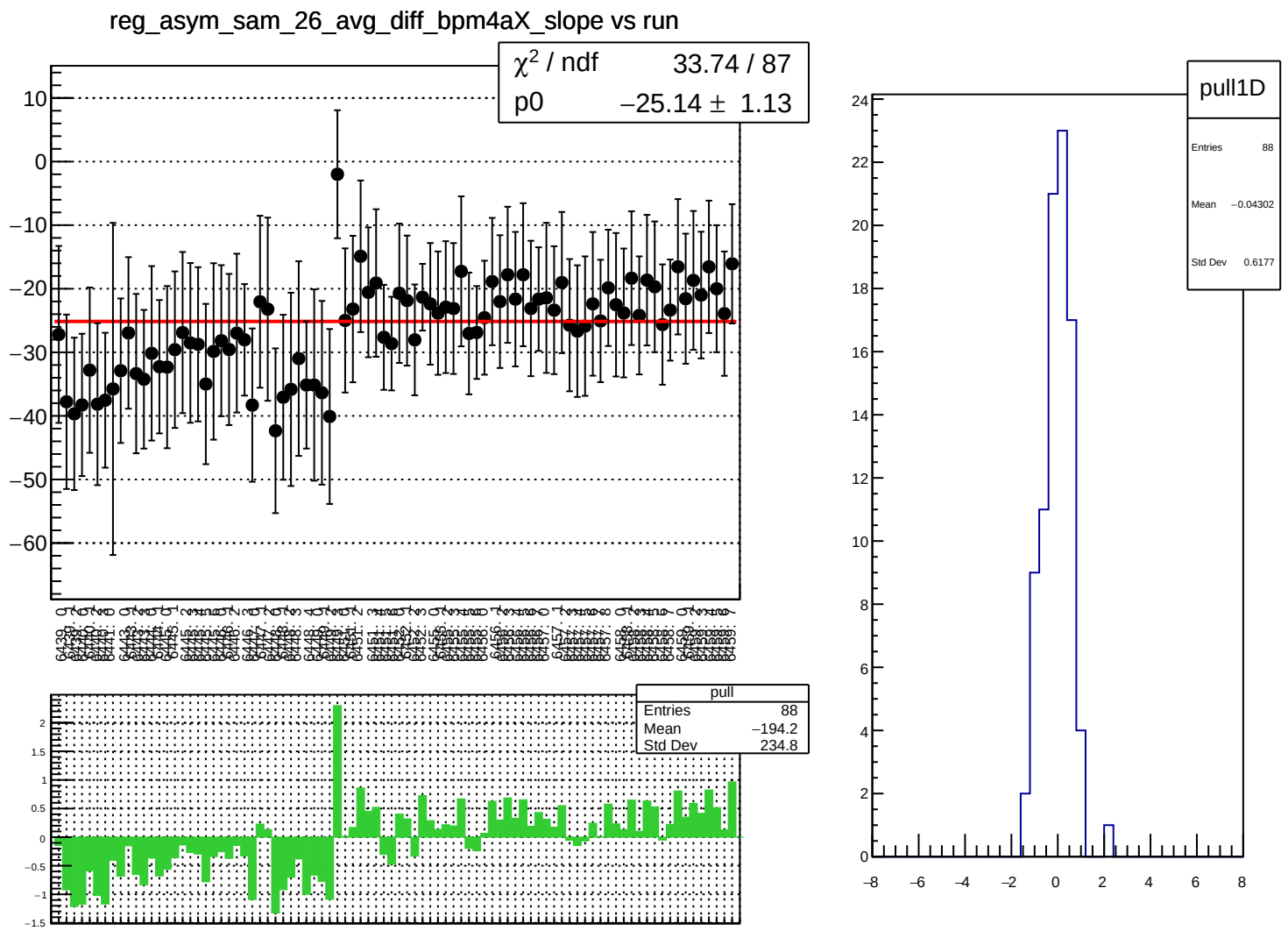

pull1D
Entries 88
Mean −0.006115
Std Dev 0.31

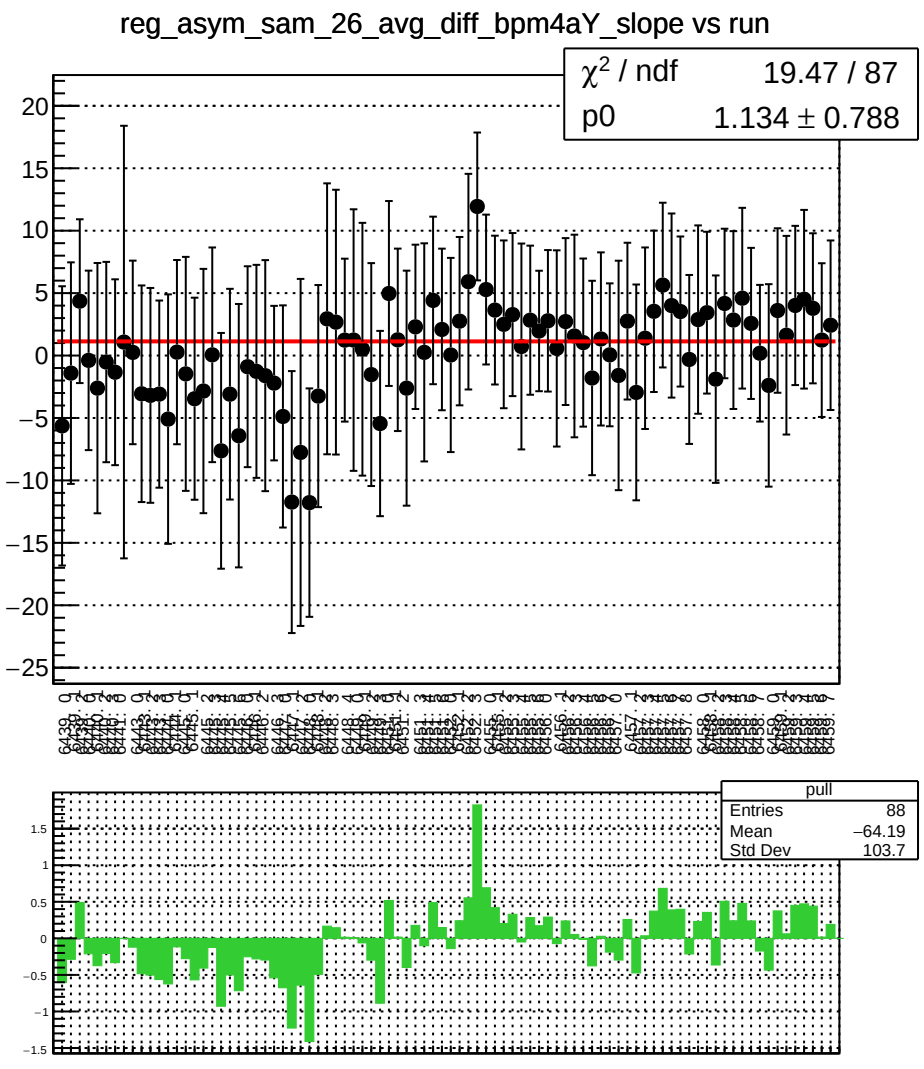

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.44 / 87
p0 3.47 ± 0.7548
pull
Entries 88
Mean 143
Std Dev 86.02

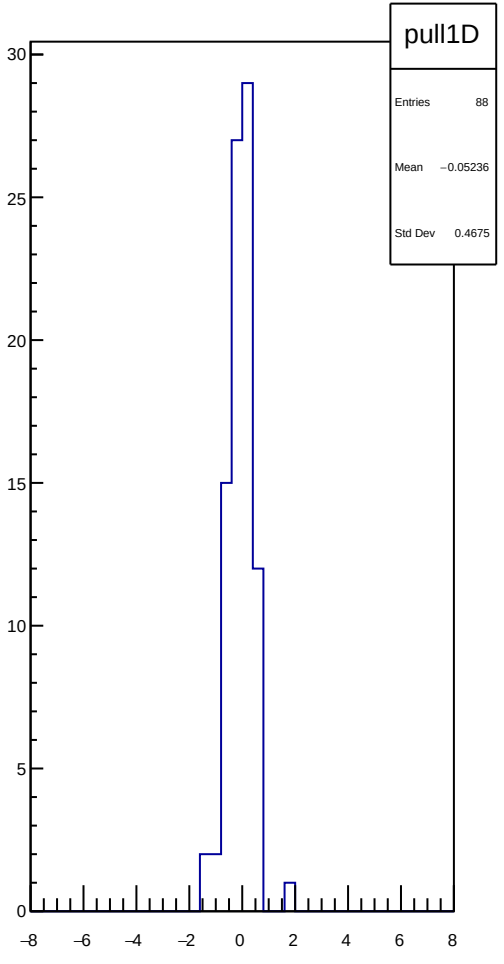

pull1D
Entries 88
Mean −0.02765
Std Dev 0.5474

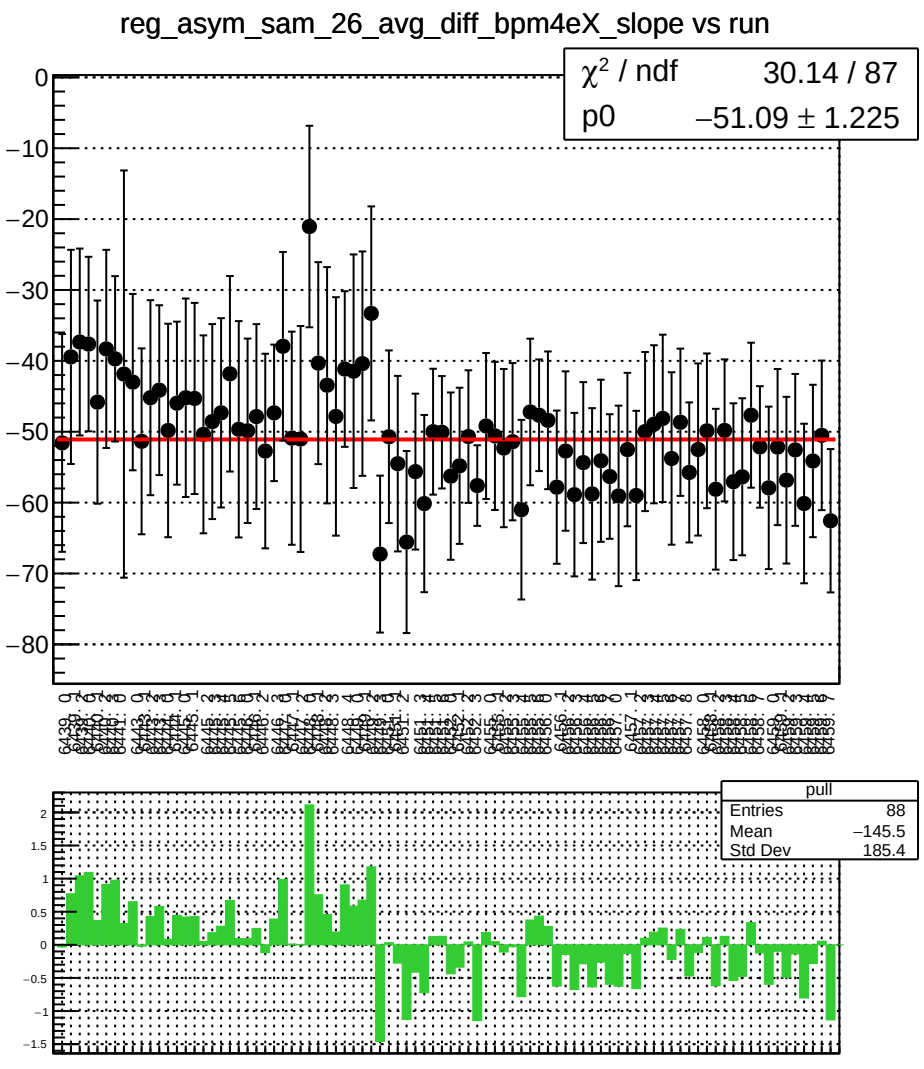

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.879 / 87
p0 29.95 ± 0.4862
pull
Entries 88
Mean 416.6
Std Dev 367.1
pull1D
Entries 88
Mean 0.004553
Std Dev 0.3176

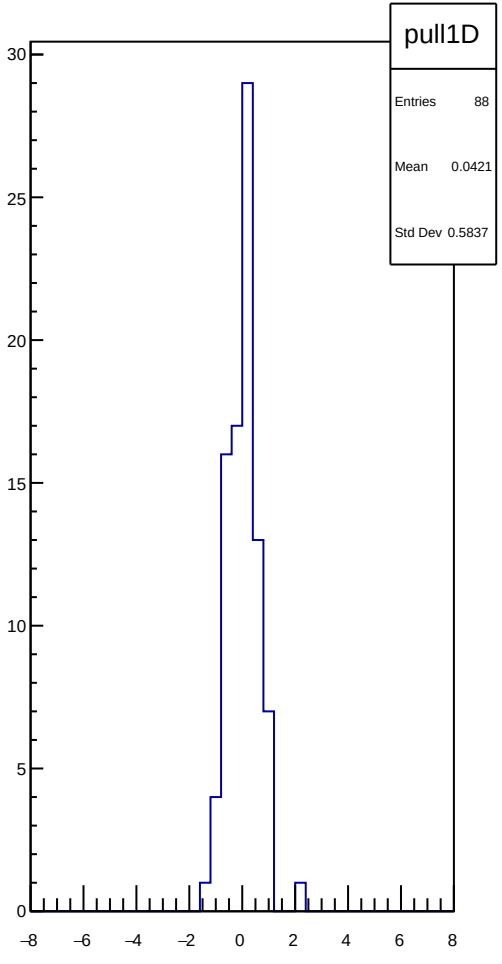

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 9.841 / 87
p0 −0.1273 ± 0.0202
pull
Entries 88
Mean −47.7
Std Dev 118.7
pull1D
Entries 88
Mean 0.004538
Std Dev 0.3344

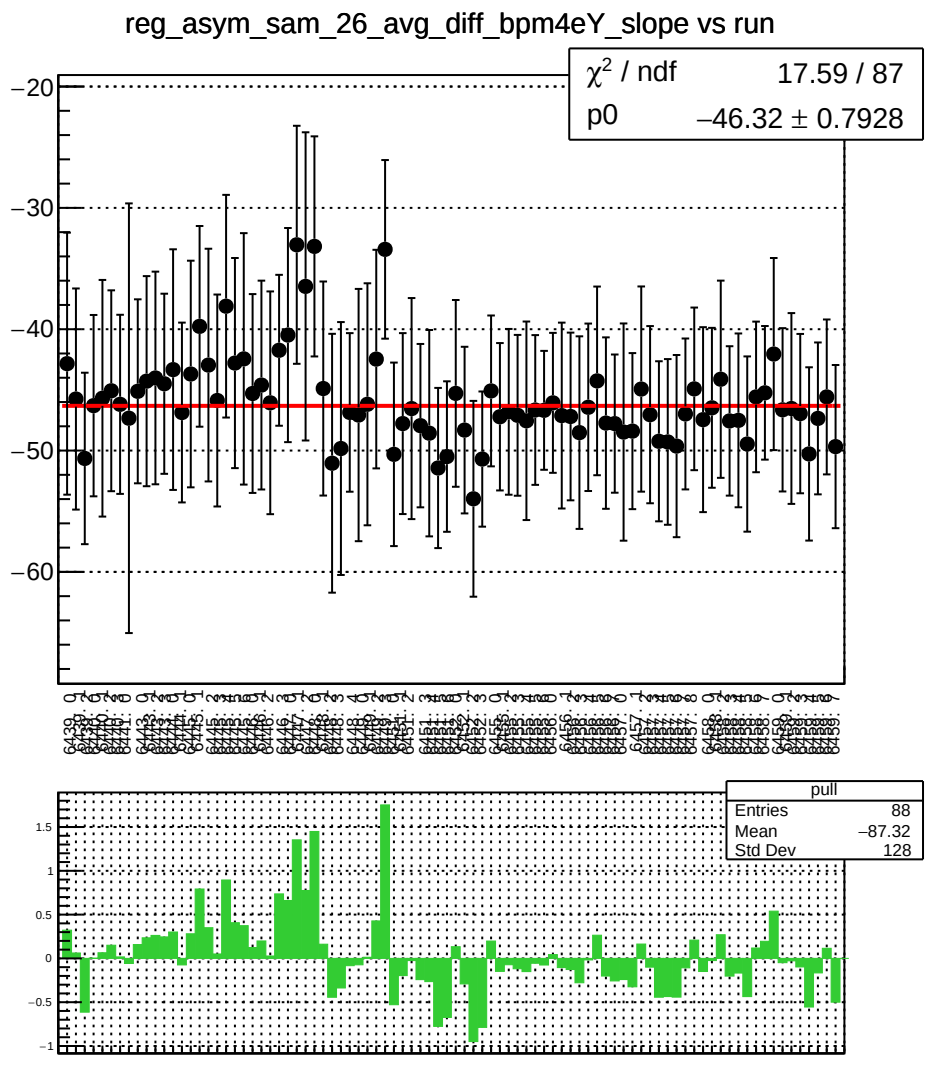

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 33.74 / 87
p0 −25.14 ± 1.13
pull
Entries 88
Mean −194.2
Std Dev 234.8
pull1D
Entries 88
Mean −0.04302
Std Dev 0.6177

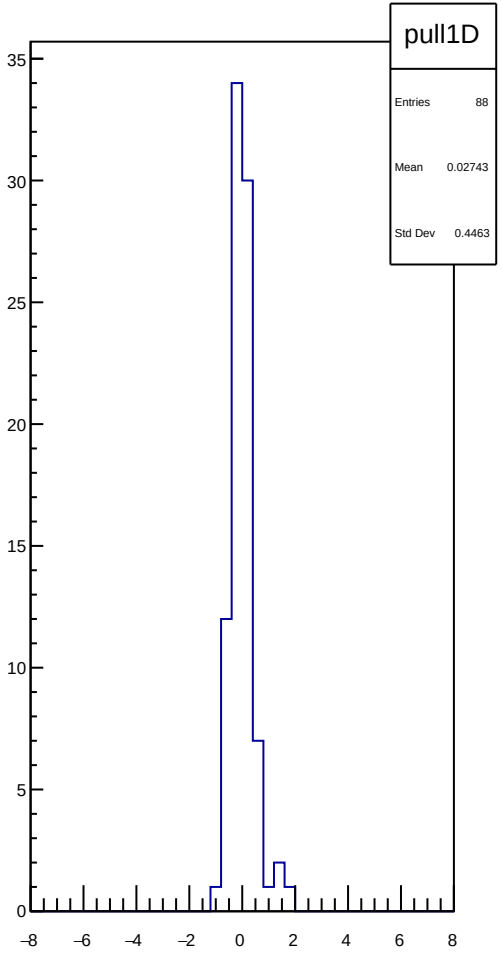

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.47 / 87
p0 1.134 ± 0.788
pull
Entries 88
Mean −64.19
Std Dev 103.7

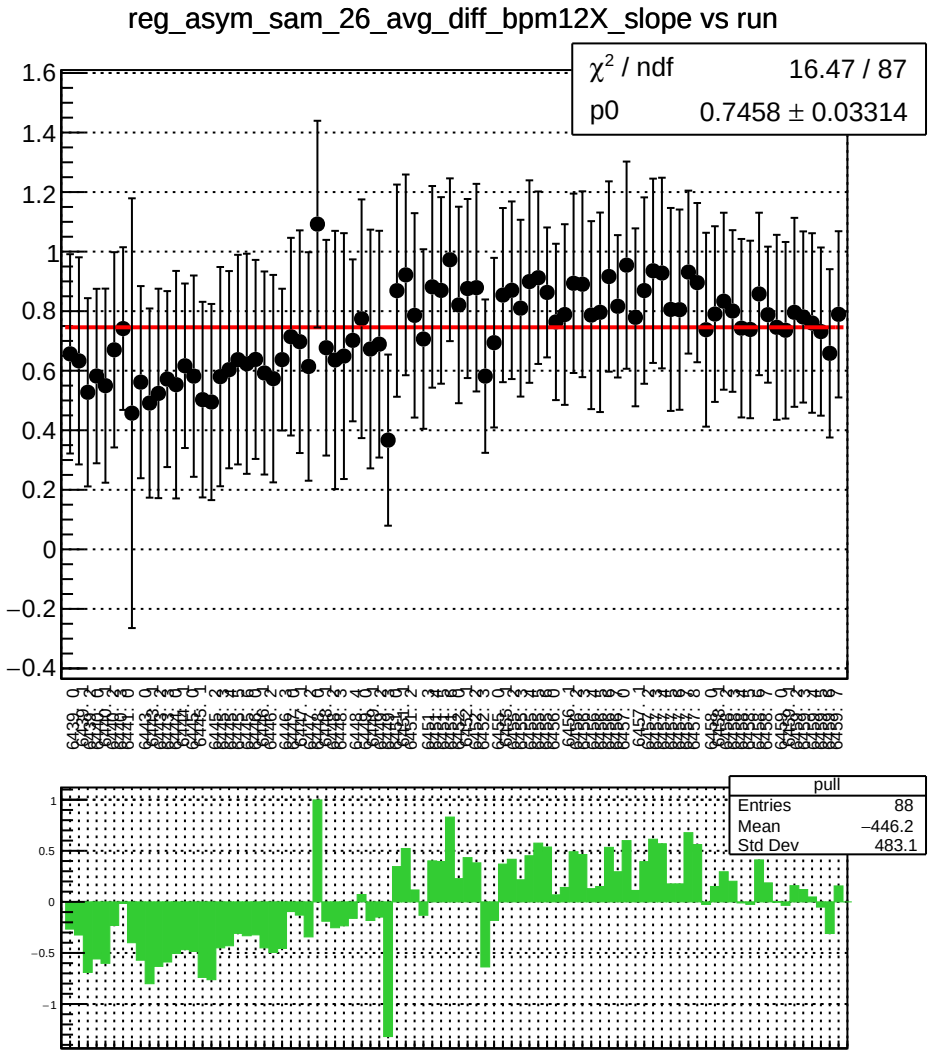

pull1D
Entries 88
Mean −0.05236
Std Dev 0.4675

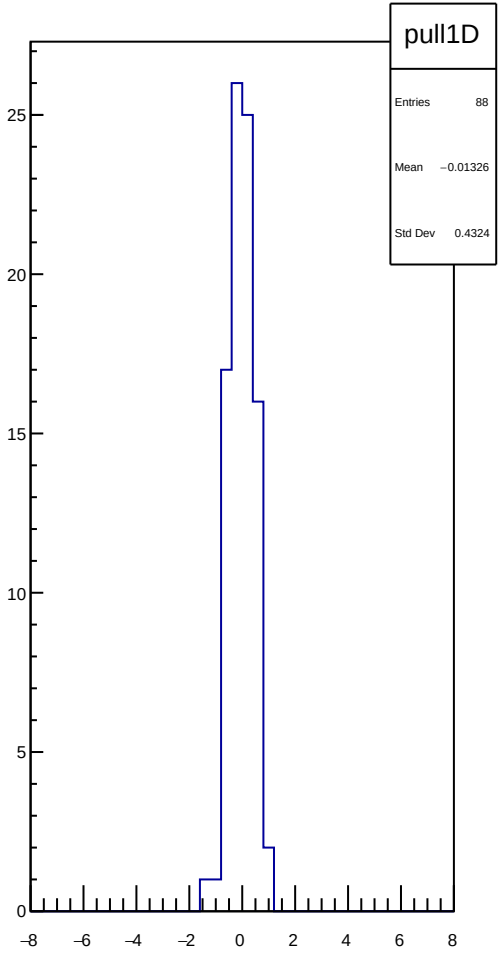

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.14 / 87
p0 −51.09 ± 1.225
pull
Entries 88
Mean −145.5
Std Dev 185.4

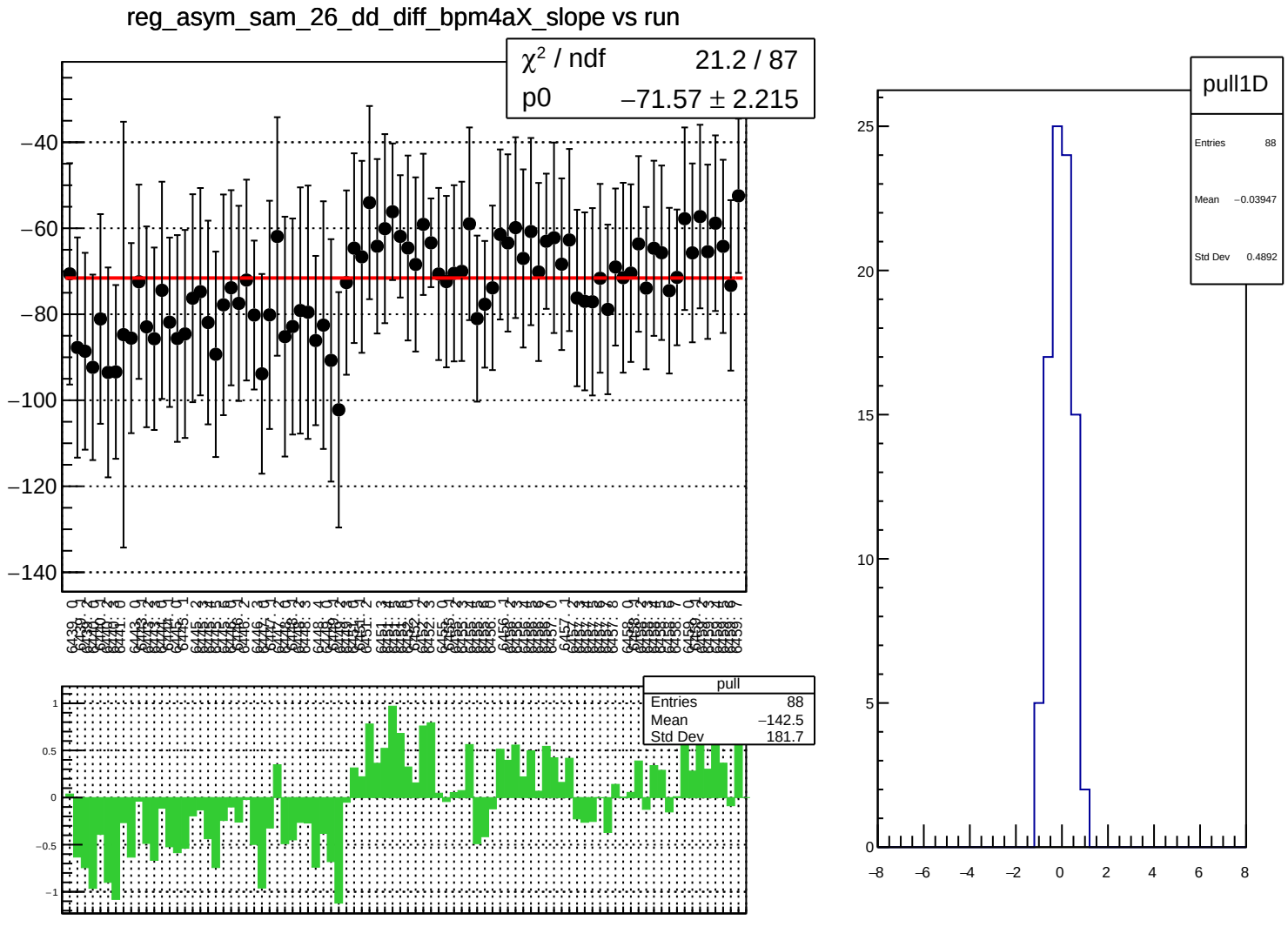

pull1D
Entries 88
Mean 0.0421
Std Dev 0.5837

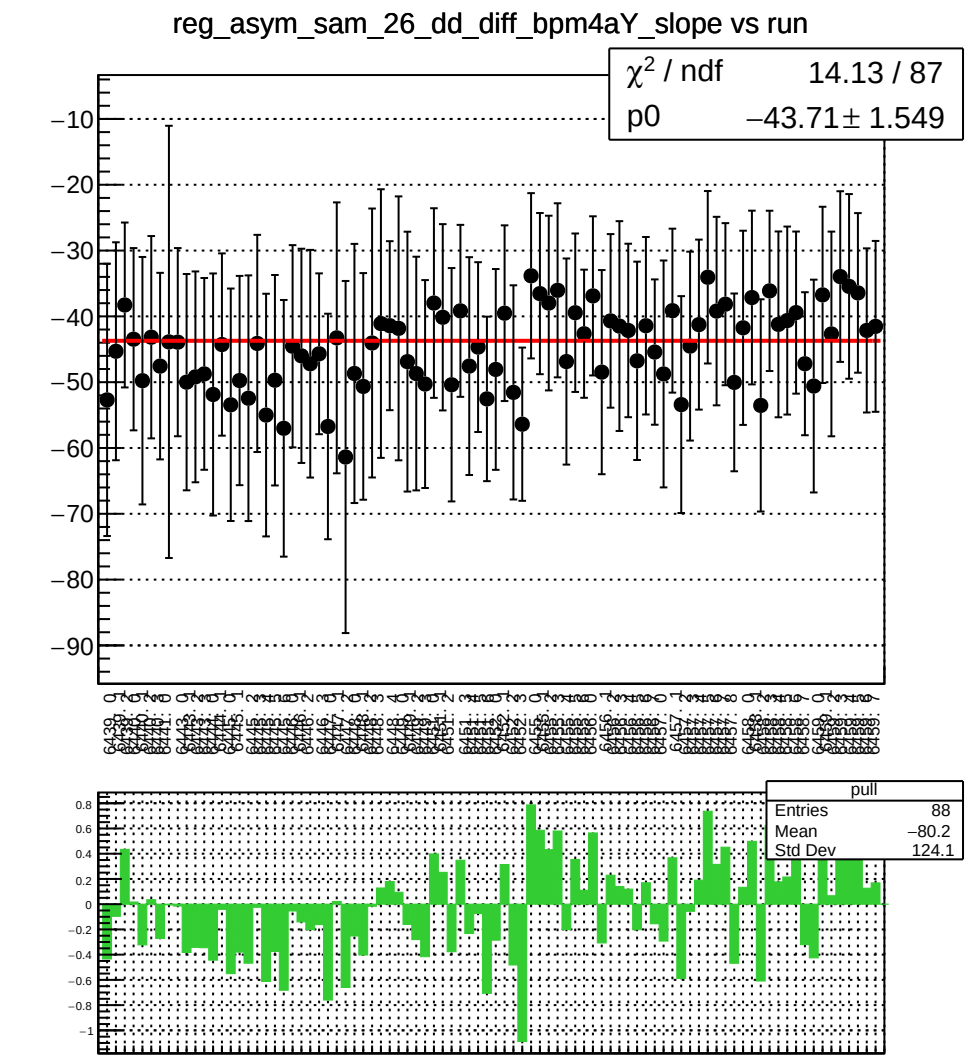

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.59 / 87
p0 −46.32 ± 0.7928
pull
Entries 88
Mean −87.32
Std Dev 128

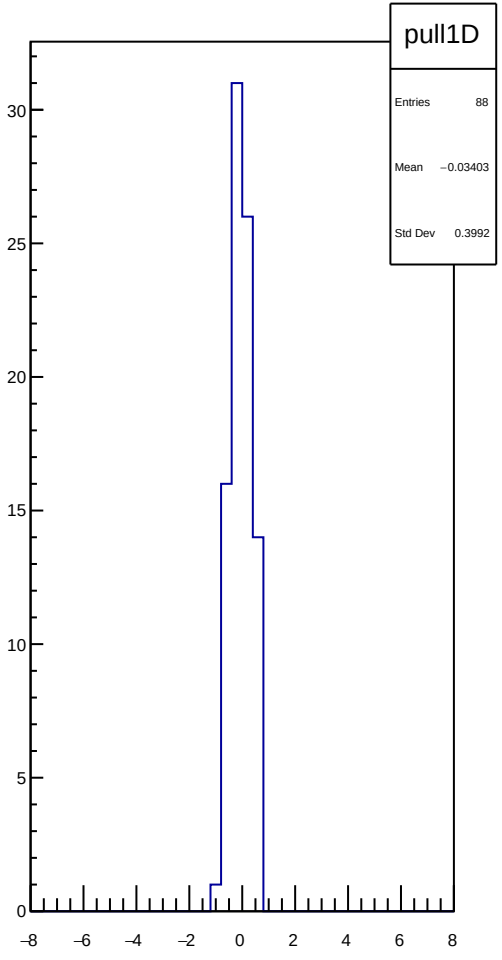

pull1D
Entries 88
Mean 0.02743
Std Dev 0.4463

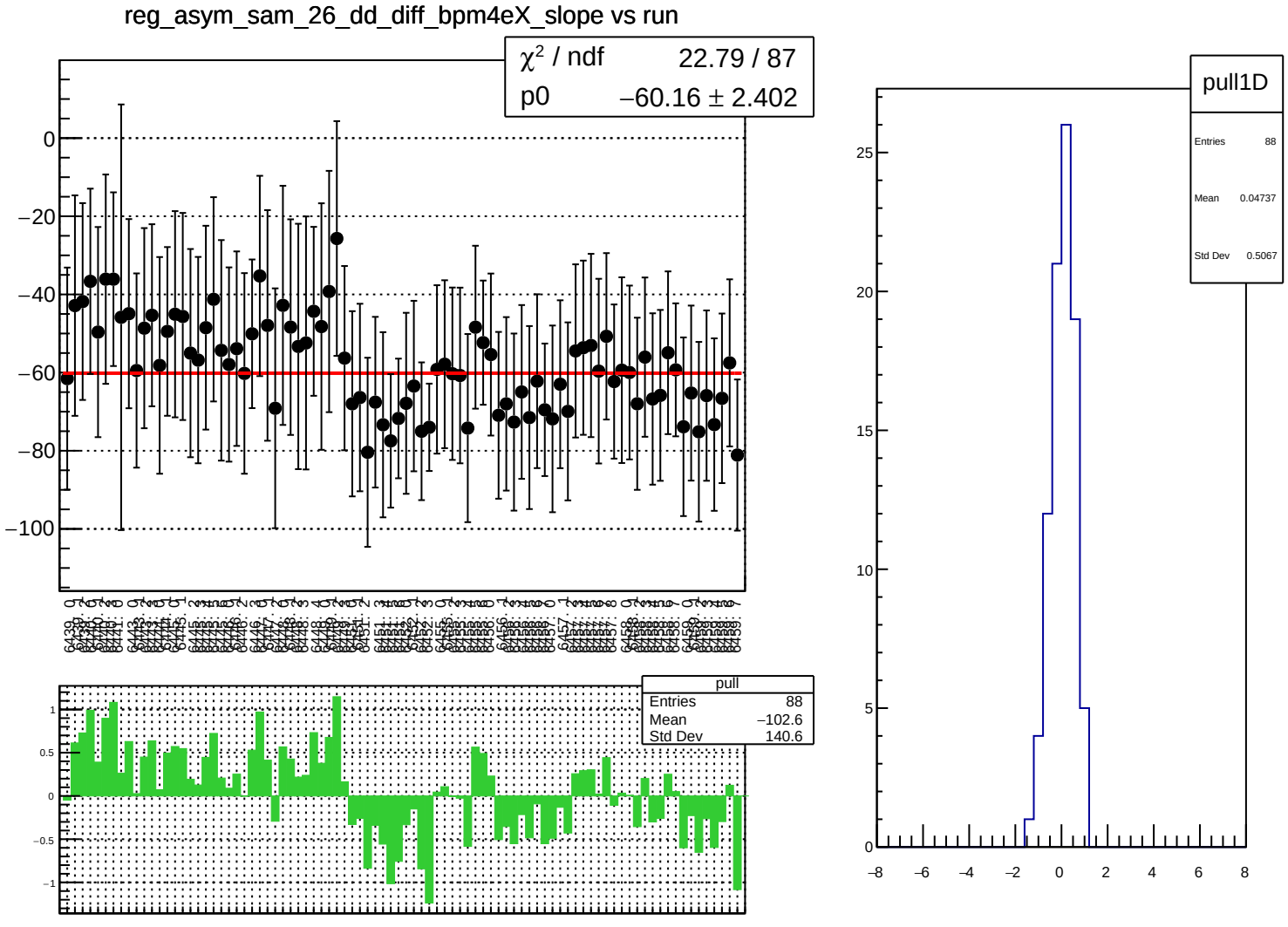

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 16.47 / 87
p0 0.7458 ± 0.03314
pull
Entries 88
Mean −446.2
Std Dev 483.1

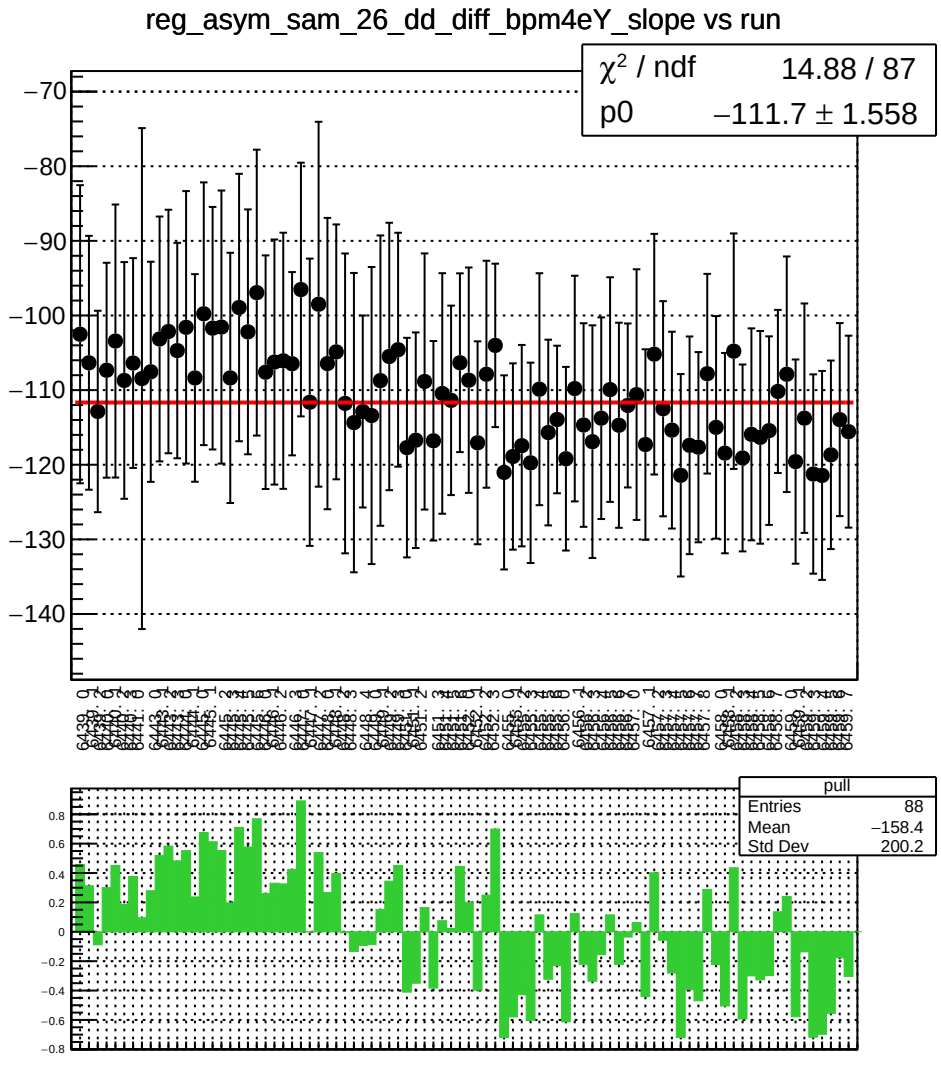

pull1D
Entries 88
Mean −0.01326
Std Dev 0.4324

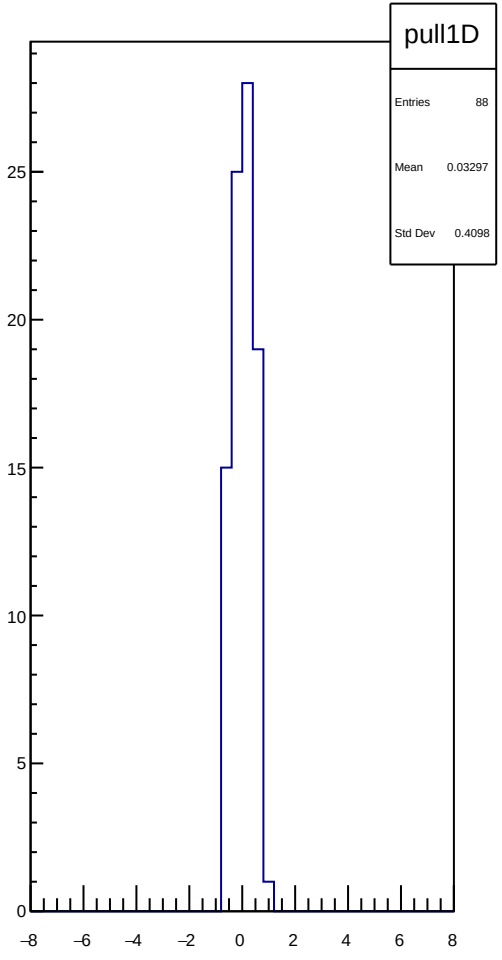

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 21.2 / 87
p0 −71.57 ± 2.215
−40
−60
−80
−100
−120
−140
pull
Entries 88
Mean −142.5
Std Dev 181.7
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.03947
Std Dev 0.4892
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

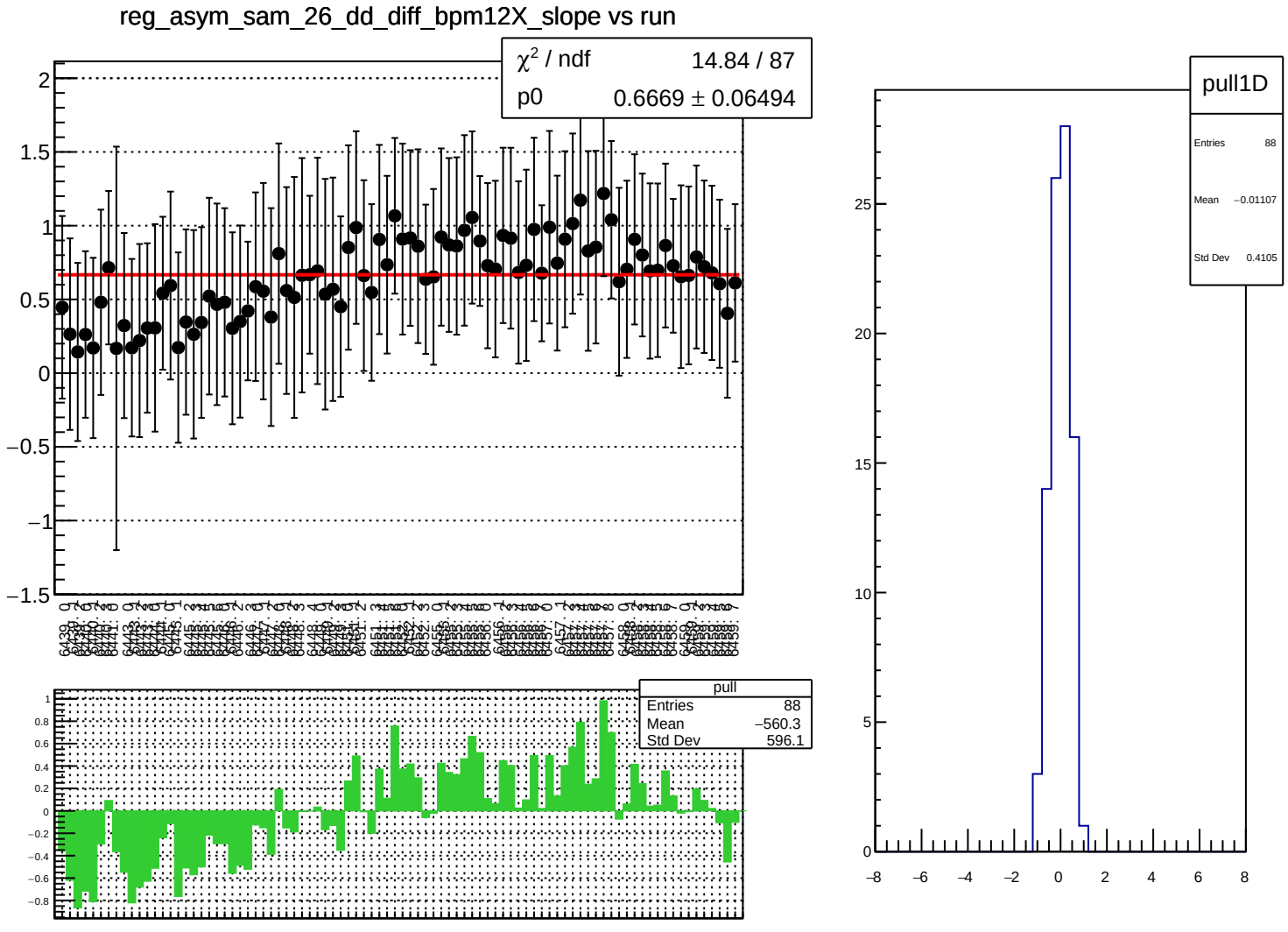

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.13 / 87
p0 −43.71 ± 1.549
pull
Entries 88
Mean −80.2
Std Dev 124.1

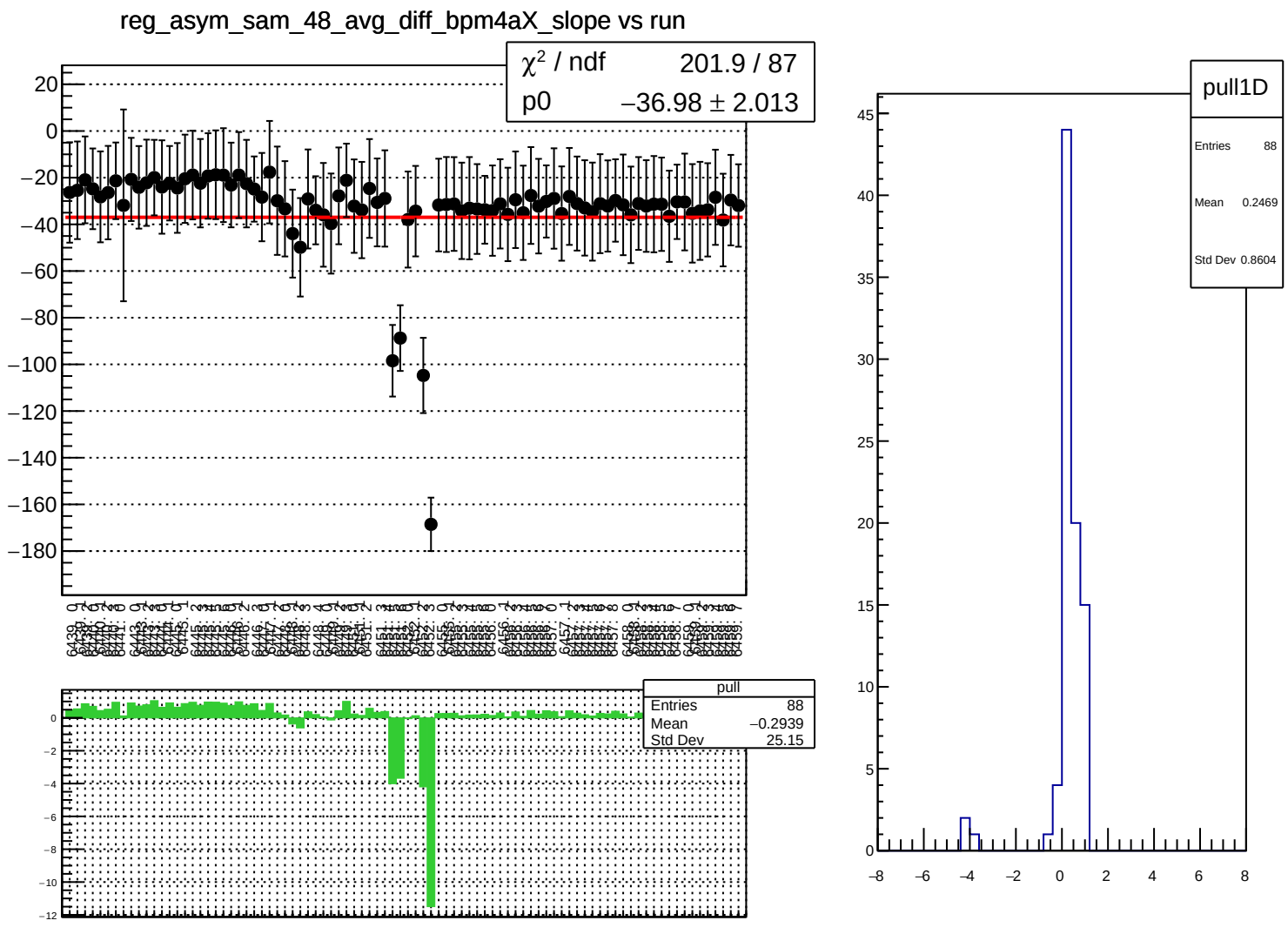

pull1D
Entries 88
Mean −0.03403
Std Dev 0.3992

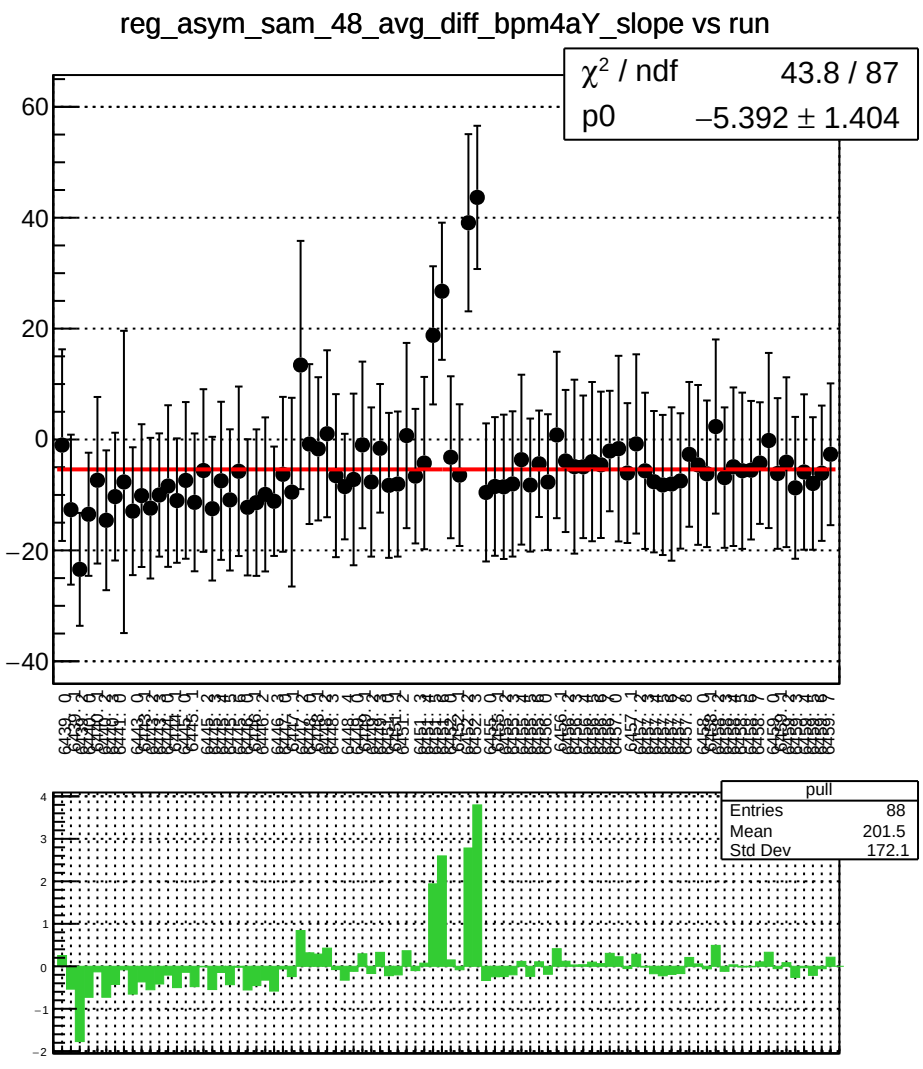

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.79 / 87
p0 −60.16 ± 2.402
0
−20
−40
−60
−80
−100
pull
Entries 88
Mean −102.6
Std Dev 140.6
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.04737
Std Dev 0.5067
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

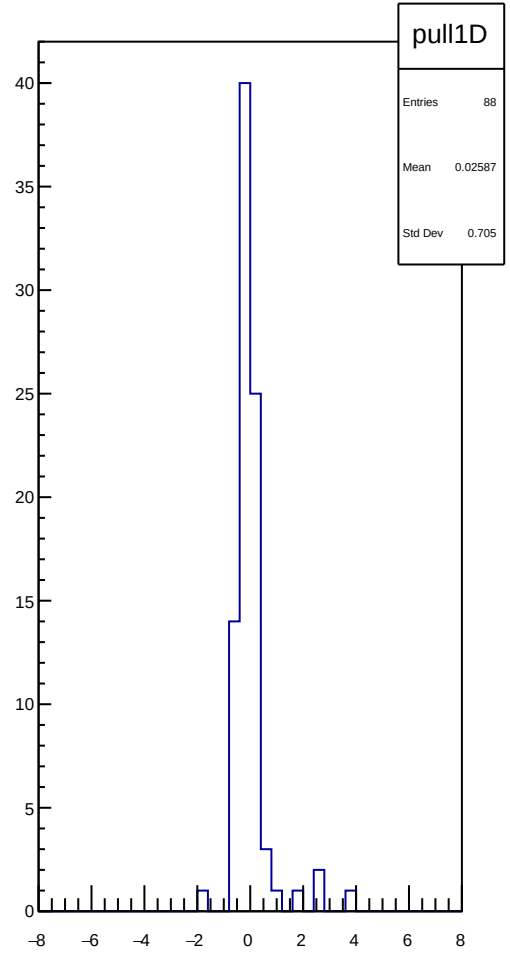

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.88 / 87
p0 −111.7 ± 1.558
pull
Entries 88
Mean −158.4
Std Dev 200.2

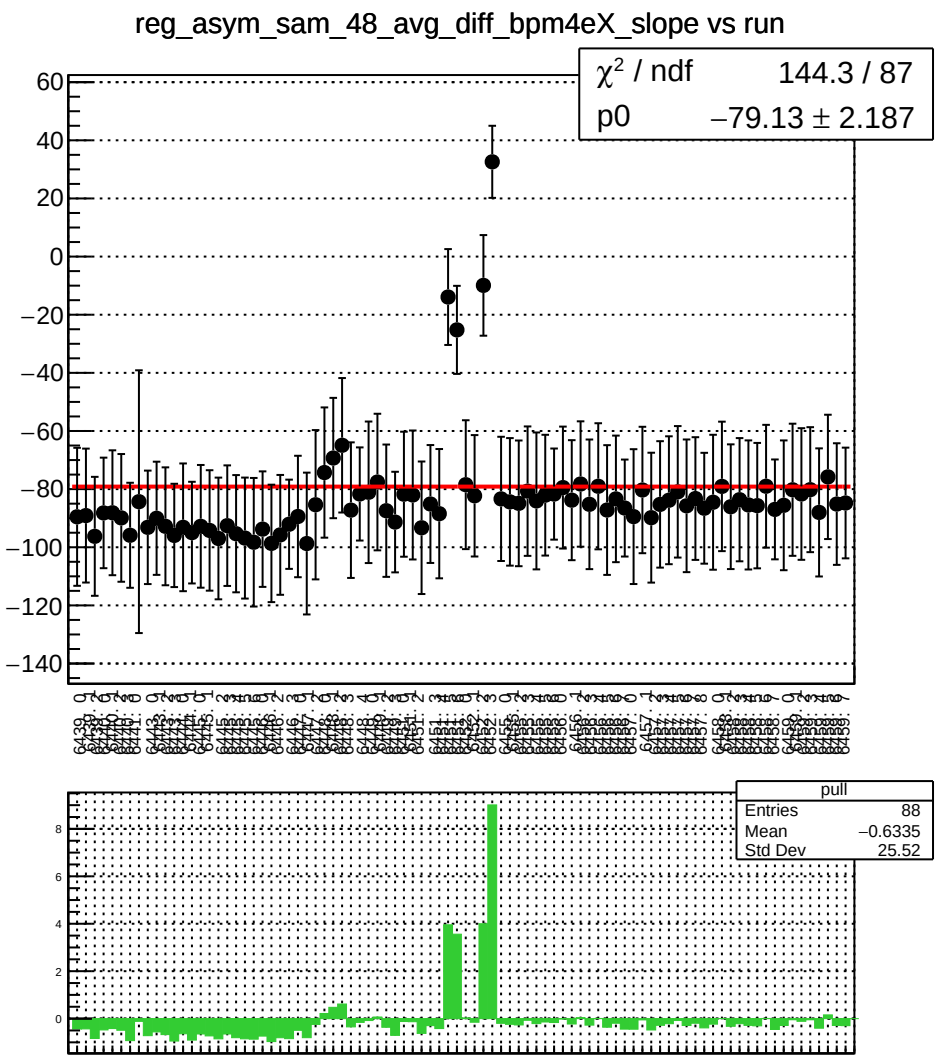

pull1D
Entries 88
Mean 0.03297
Std Dev 0.4098

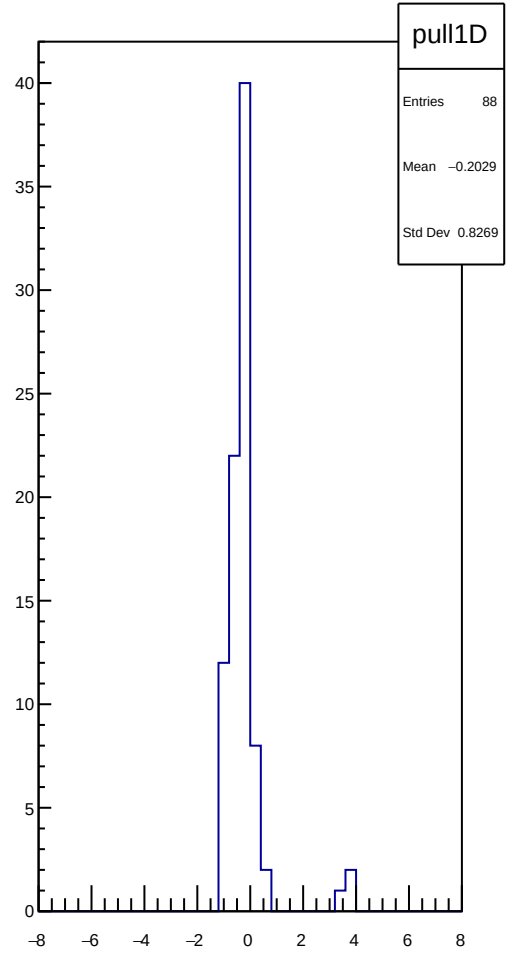

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 14.84 / 87
p0 0.6669 ± 0.06494
pull
Entries 88
Mean −560.3
Std Dev 596.1
pull1D
Entries 88
Mean −0.01107
Std Dev 0.4105

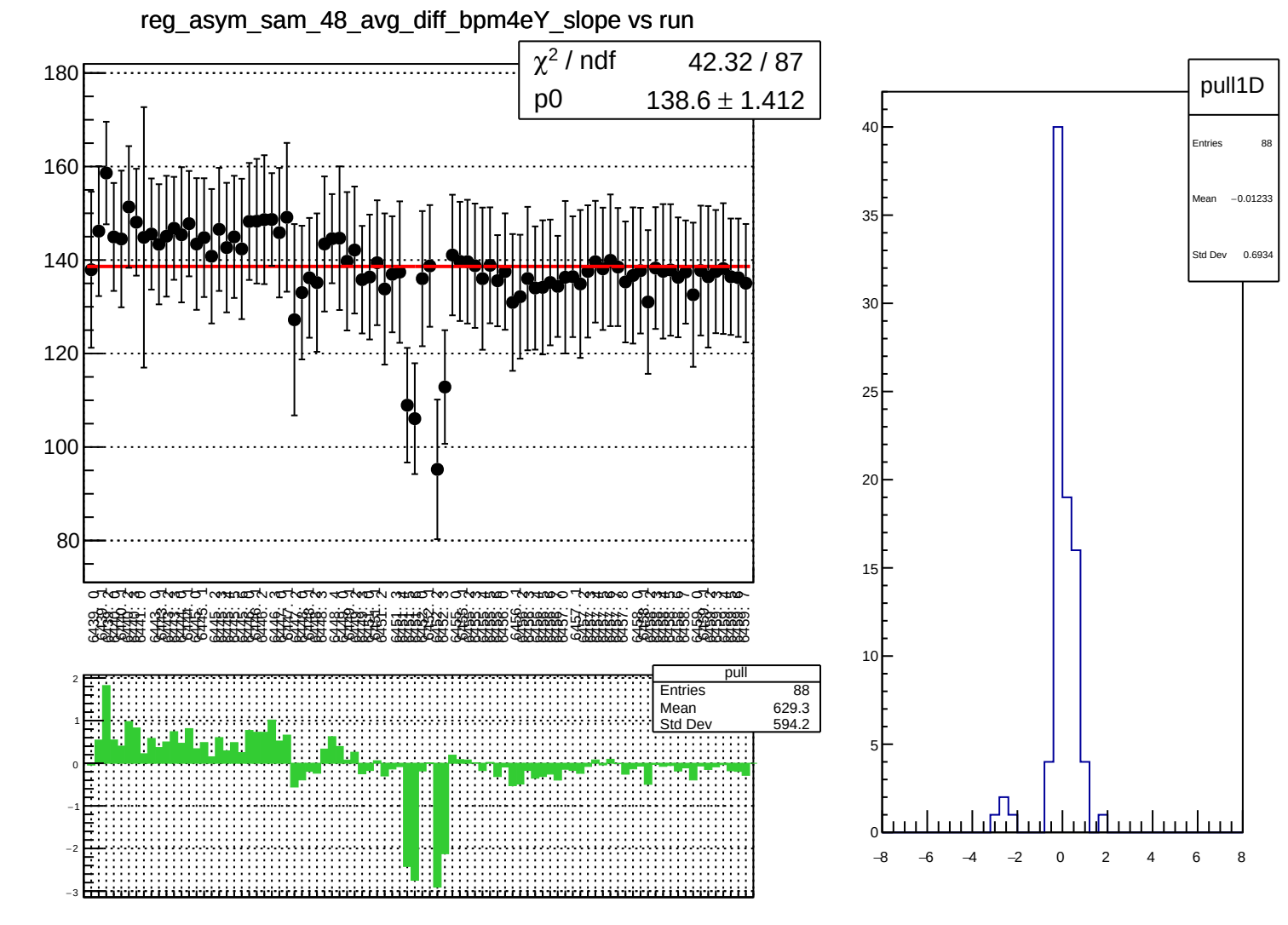

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 201.9 / 87
p0 −36.98 ± 2.013
pull
Entries 88
Mean −0.2939
Std Dev 25.15
pull1D
Entries 88
Mean 0.2469
Std Dev 0.8604

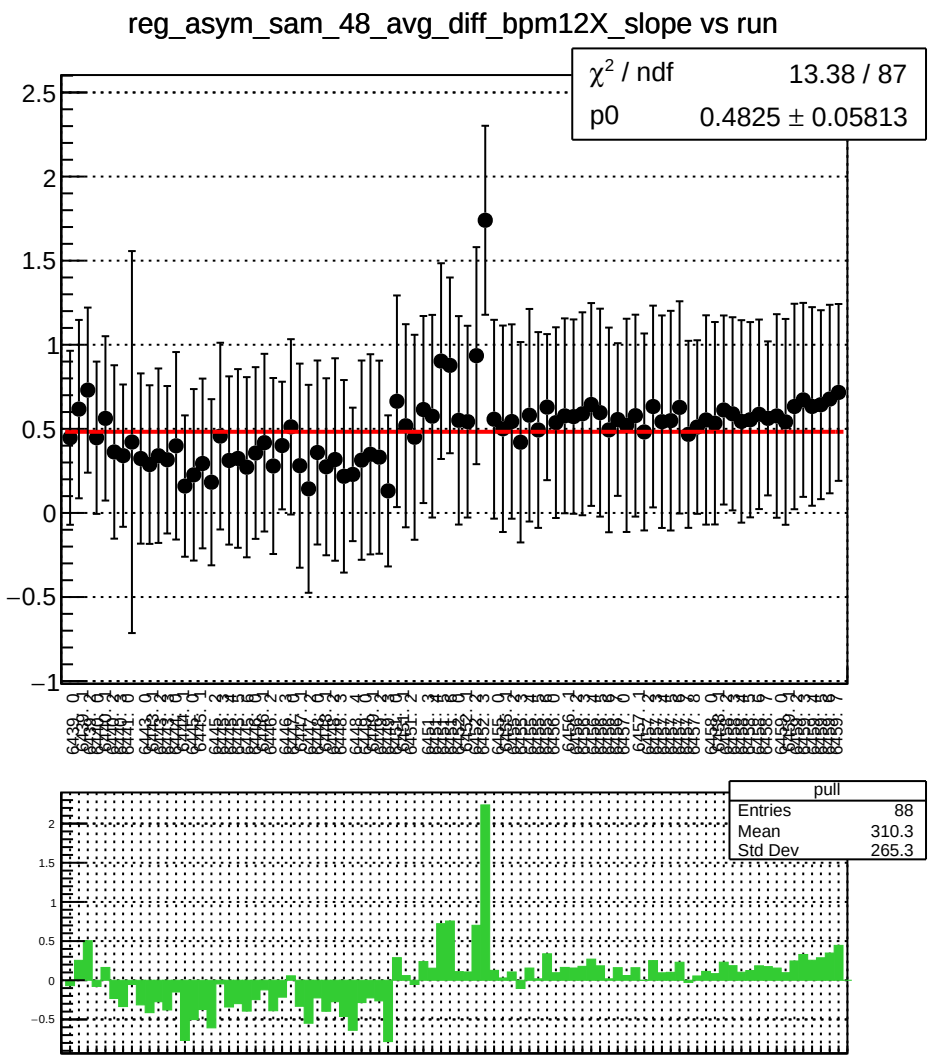

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.8 / 87
p0 −5.392 ± 1.404
pull
Entries 88
Mean 201.5
Std Dev 172.1

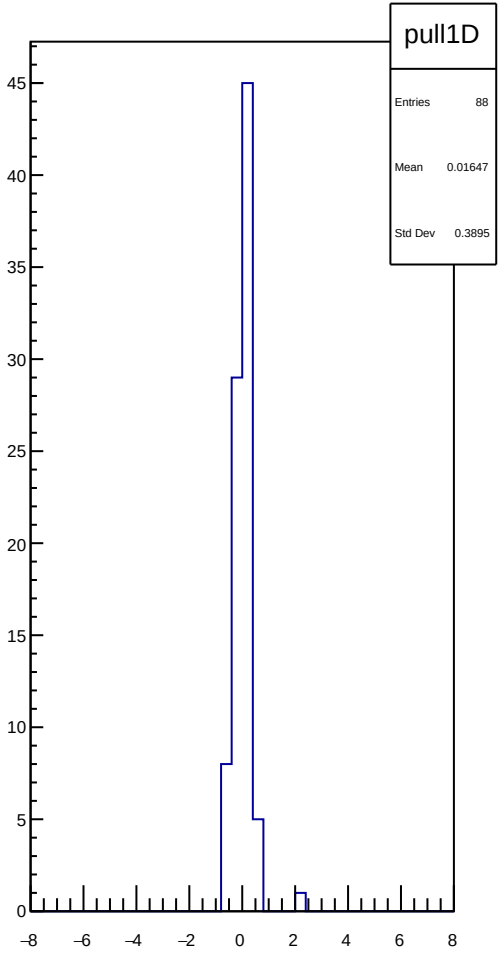

pull1D
Entries 88
Mean 0.02587
Std Dev 0.705

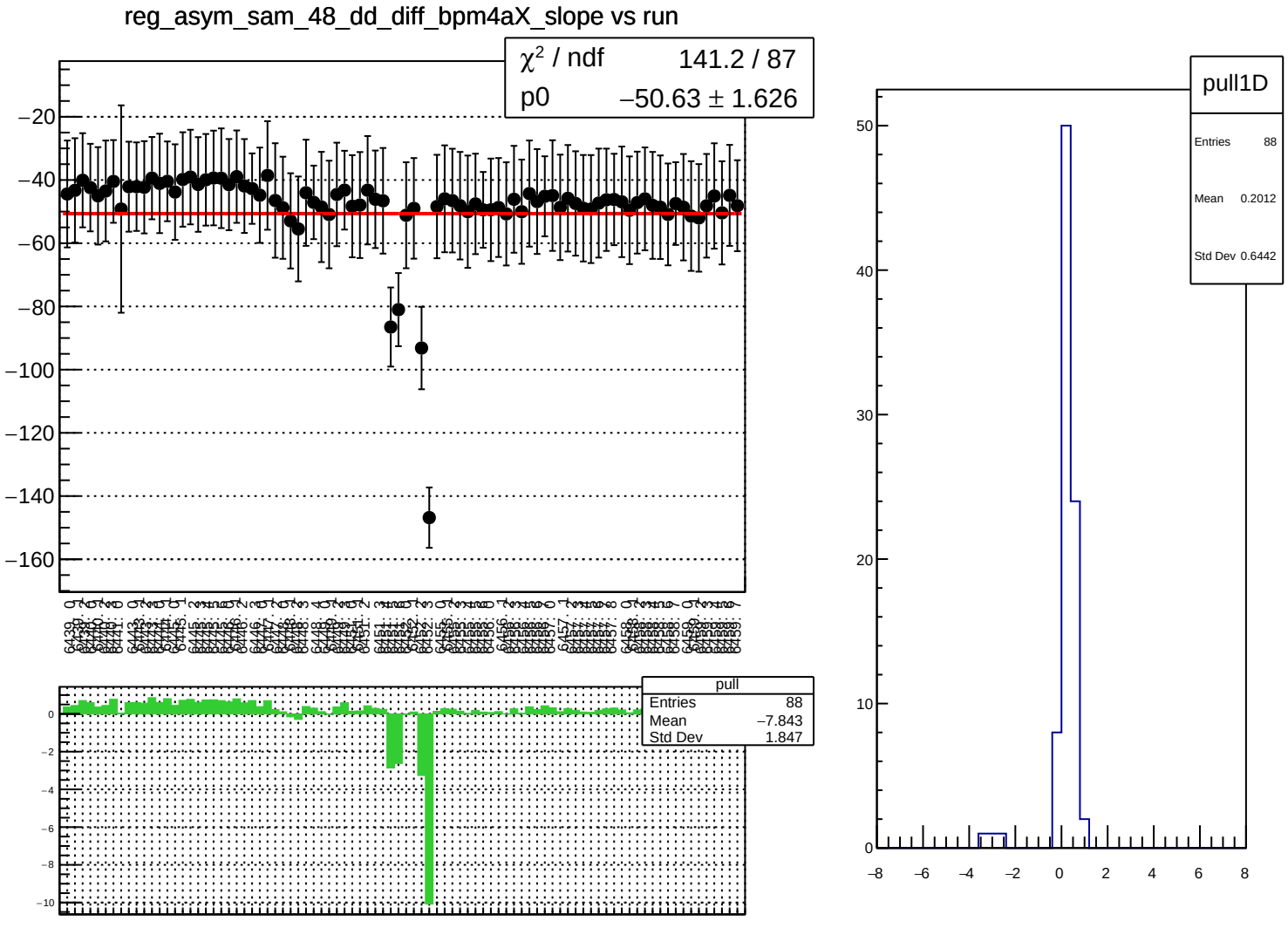

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 144.3 / 87
p0 −79.13 ± 2.187
pull
Entries 88
Mean −0.6335
Std Dev 25.52

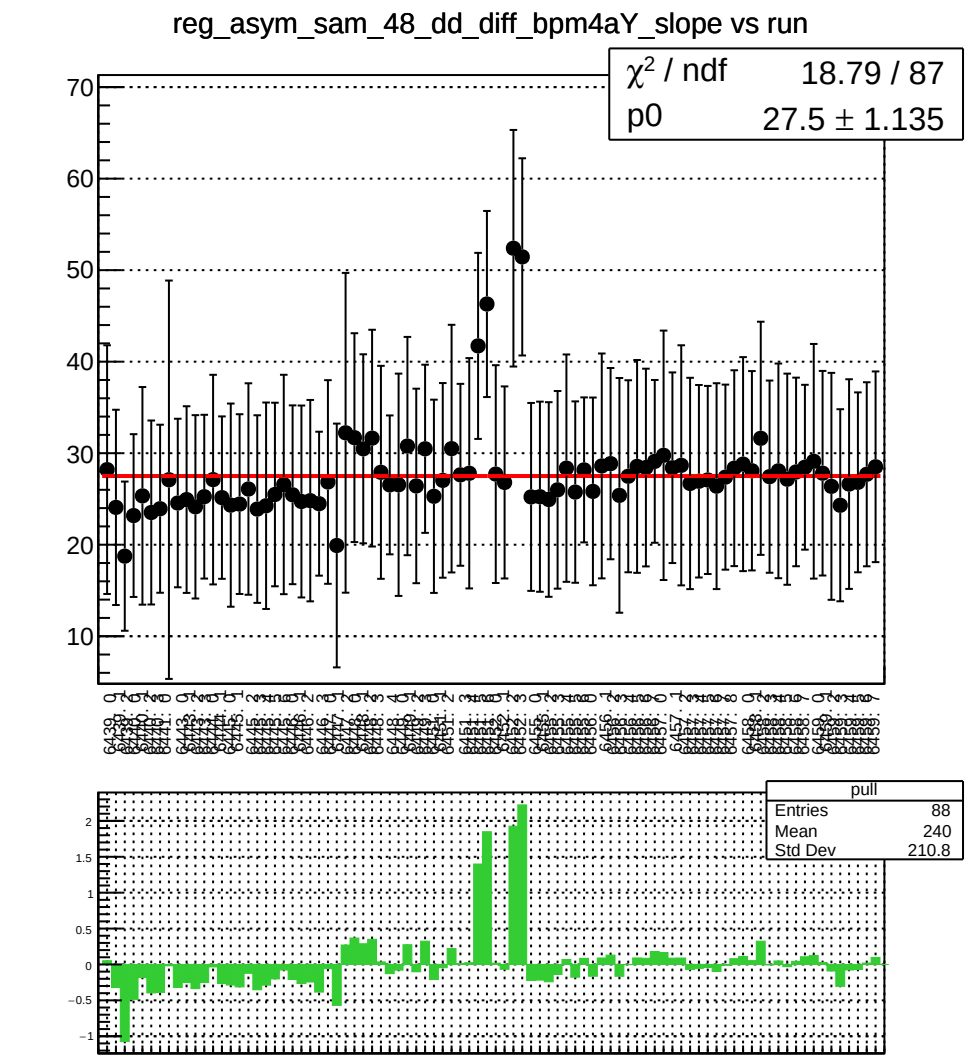

pull1D
Entries 88
Mean −0.2029
Std Dev 0.8269

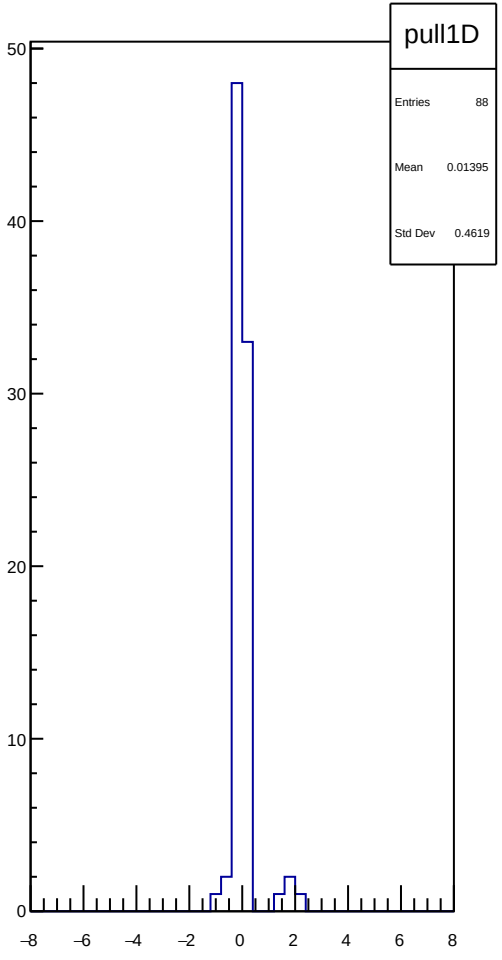

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.32 / 87
p0 138.6 ± 1.412
pull
Entries 88
Mean 629.3
Std Dev 594.2
pull1D
Entries 88
Mean −0.01233
Std Dev 0.6934

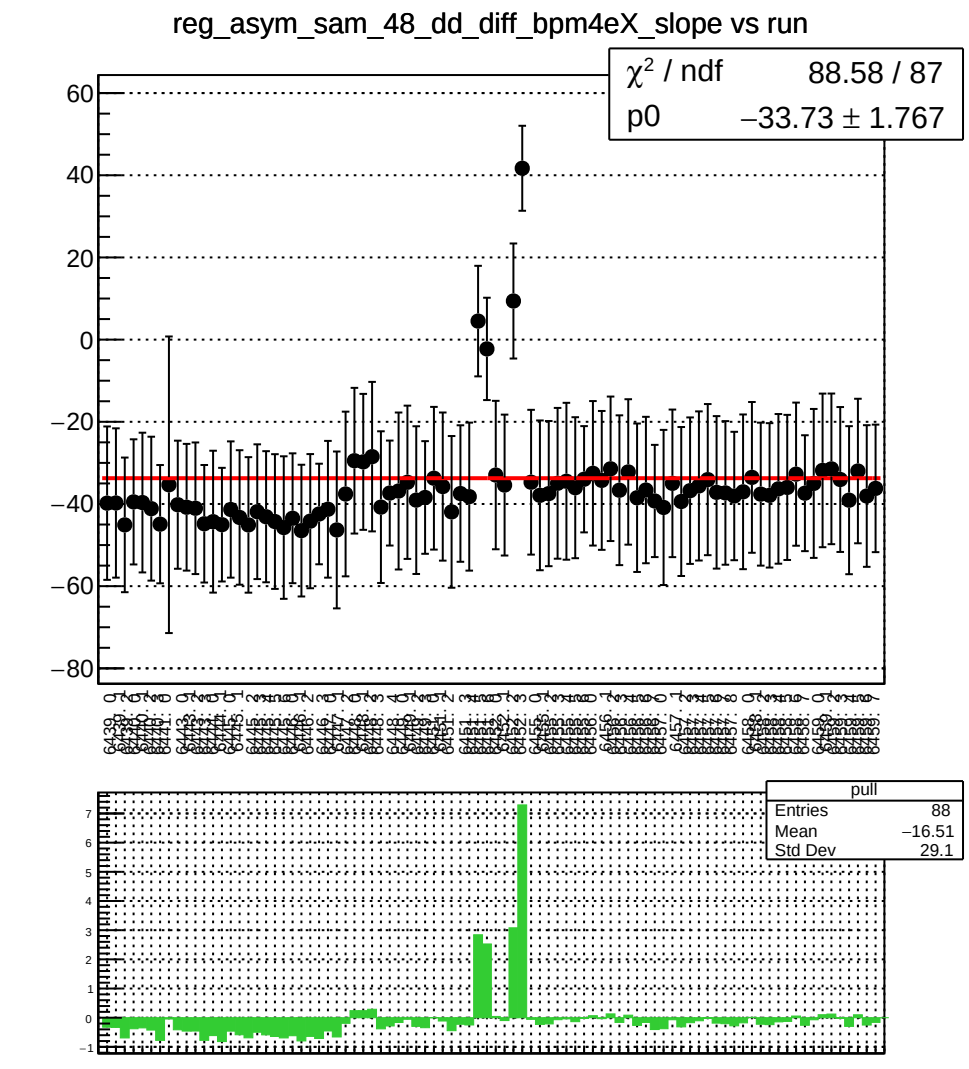

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 13.38 / 87
p0 0.4825 ± 0.05813
pull
Entries 88
Mean 310.3
Std Dev 265.3

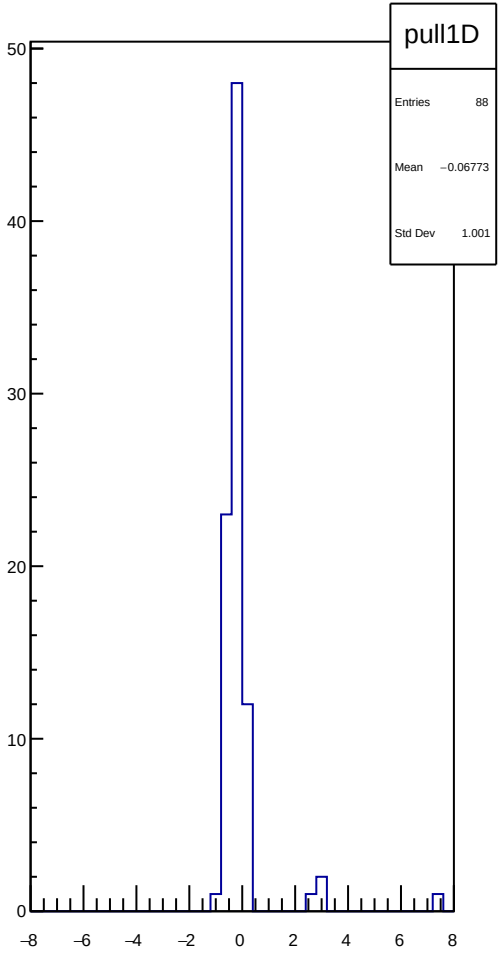

pull1D
Entries 88
Mean 0.01647
Std Dev 0.3895

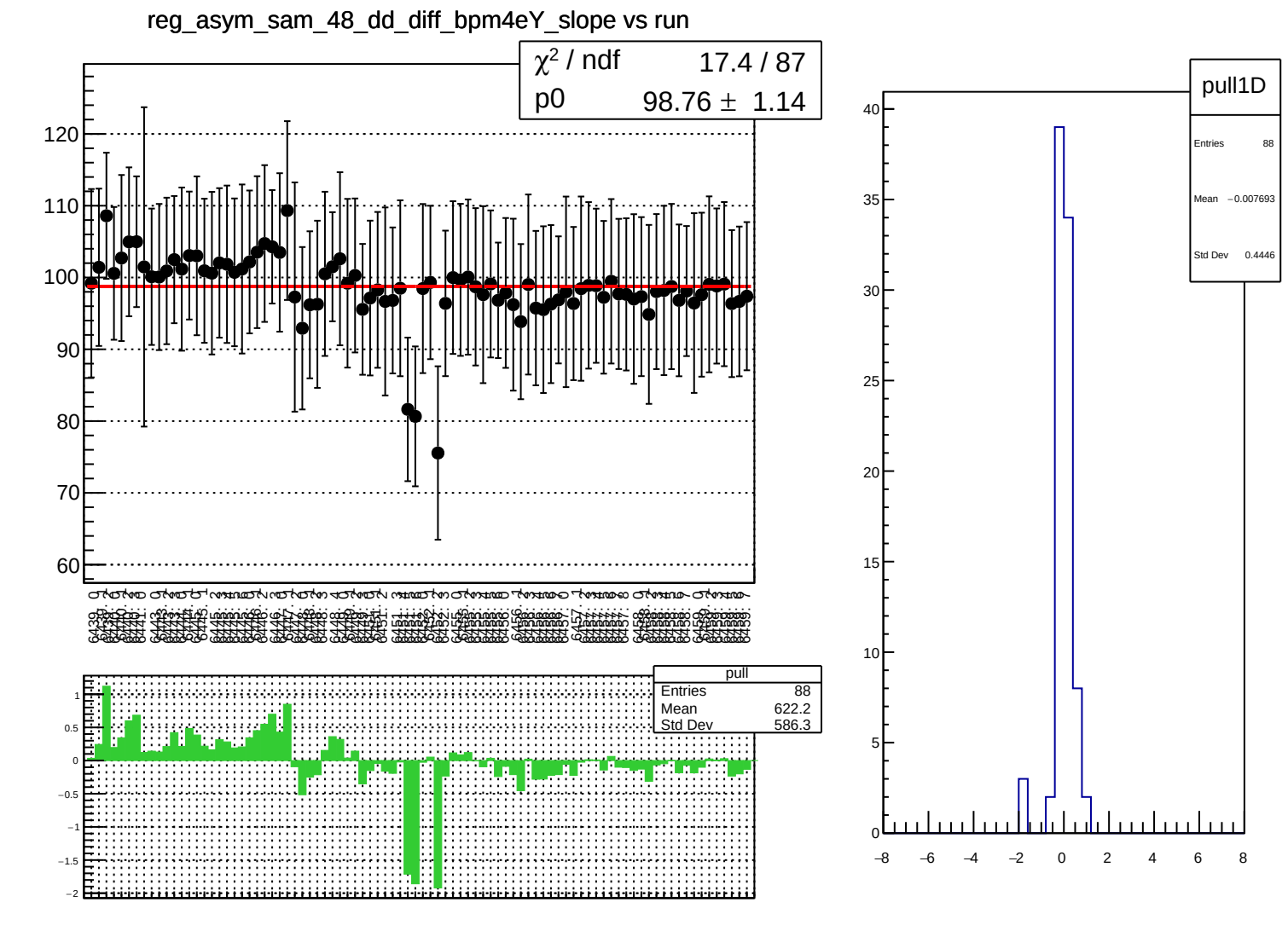

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 141.2 / 87
p0 −50.63 ± 1.626
pull
Entries 88
Mean −7.843
Std Dev 1.847
pull1D
Entries 88
Mean 0.2012
Std Dev 0.6442

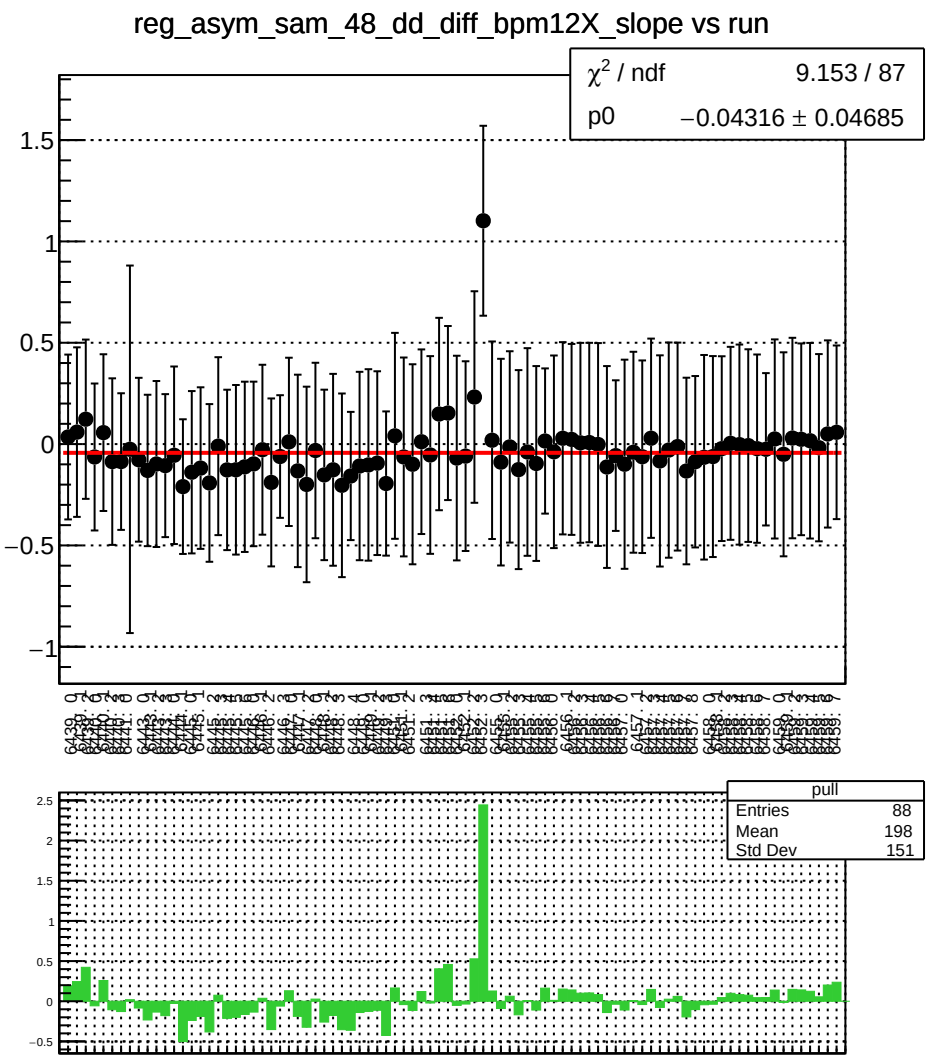

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.79 / 87
p0 27.5 ± 1.135
pull
Entries 88
Mean 240
Std Dev 210.8

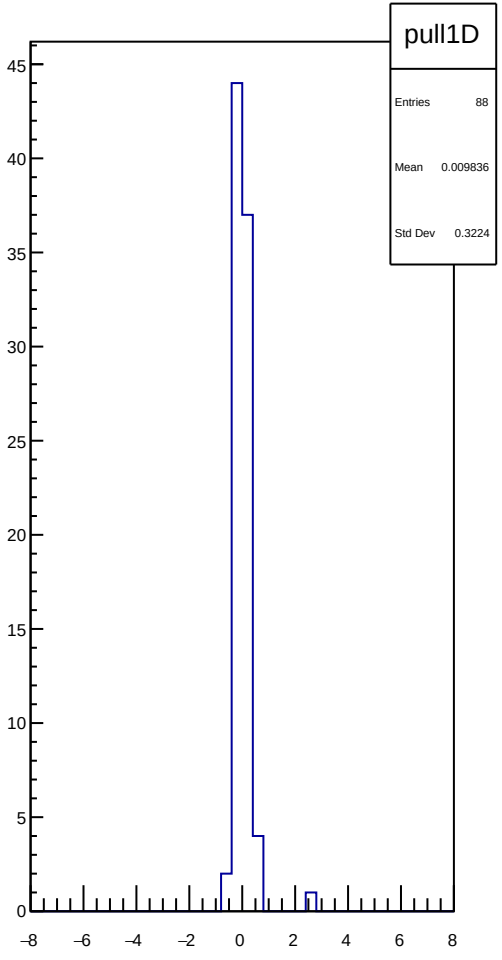

pull1D
Entries 88
Mean 0.01395
Std Dev 0.4619

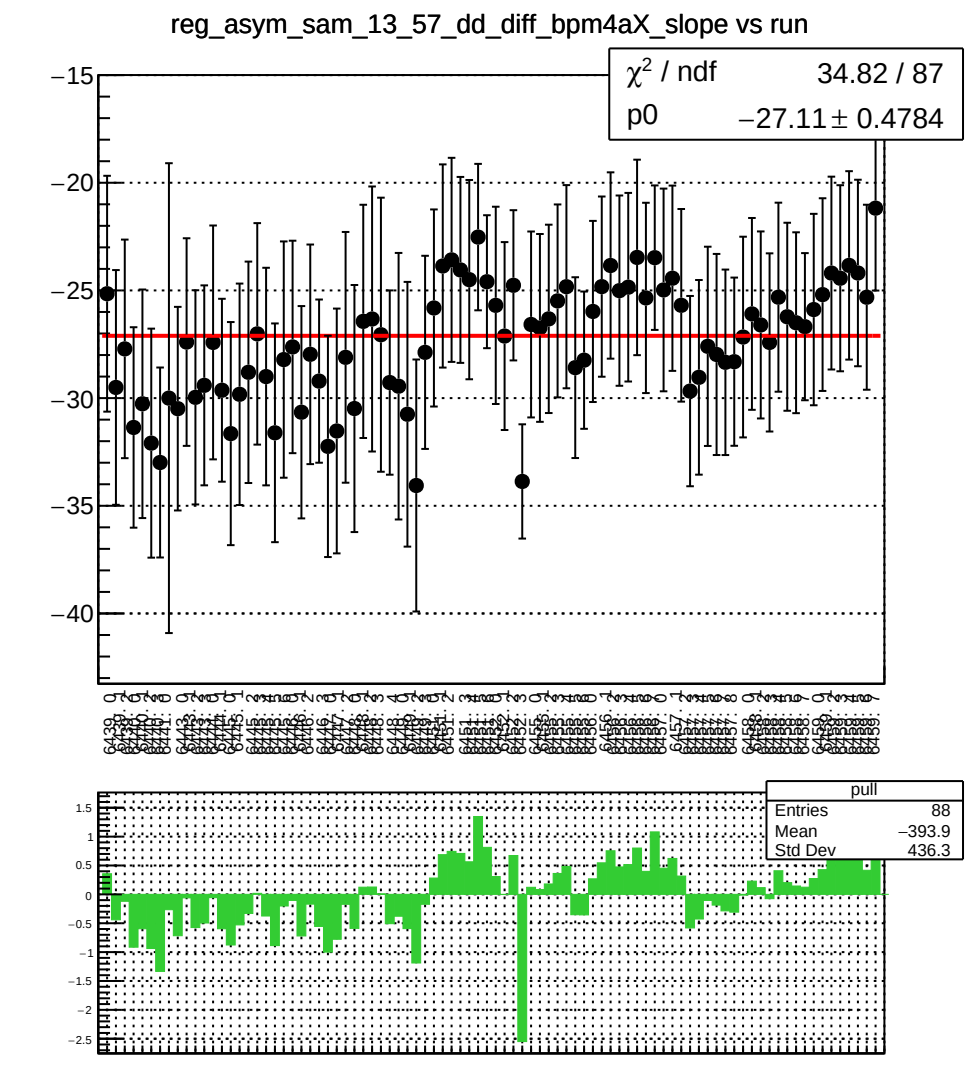

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.58 / 87
p0 −33.73 ± 1.767
pull
Entries 88
Mean −16.51
Std Dev 29.1

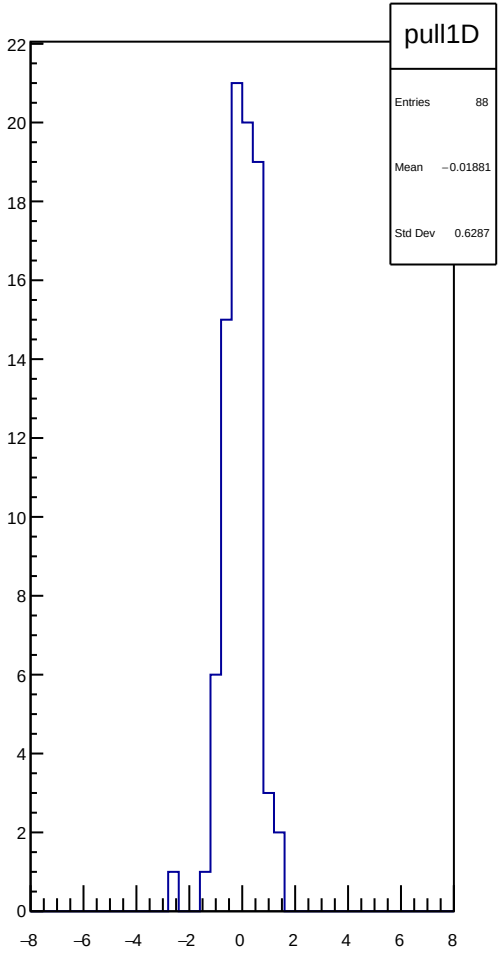

pull1D
Entries 88
Mean −0.06773
Std Dev 1.001

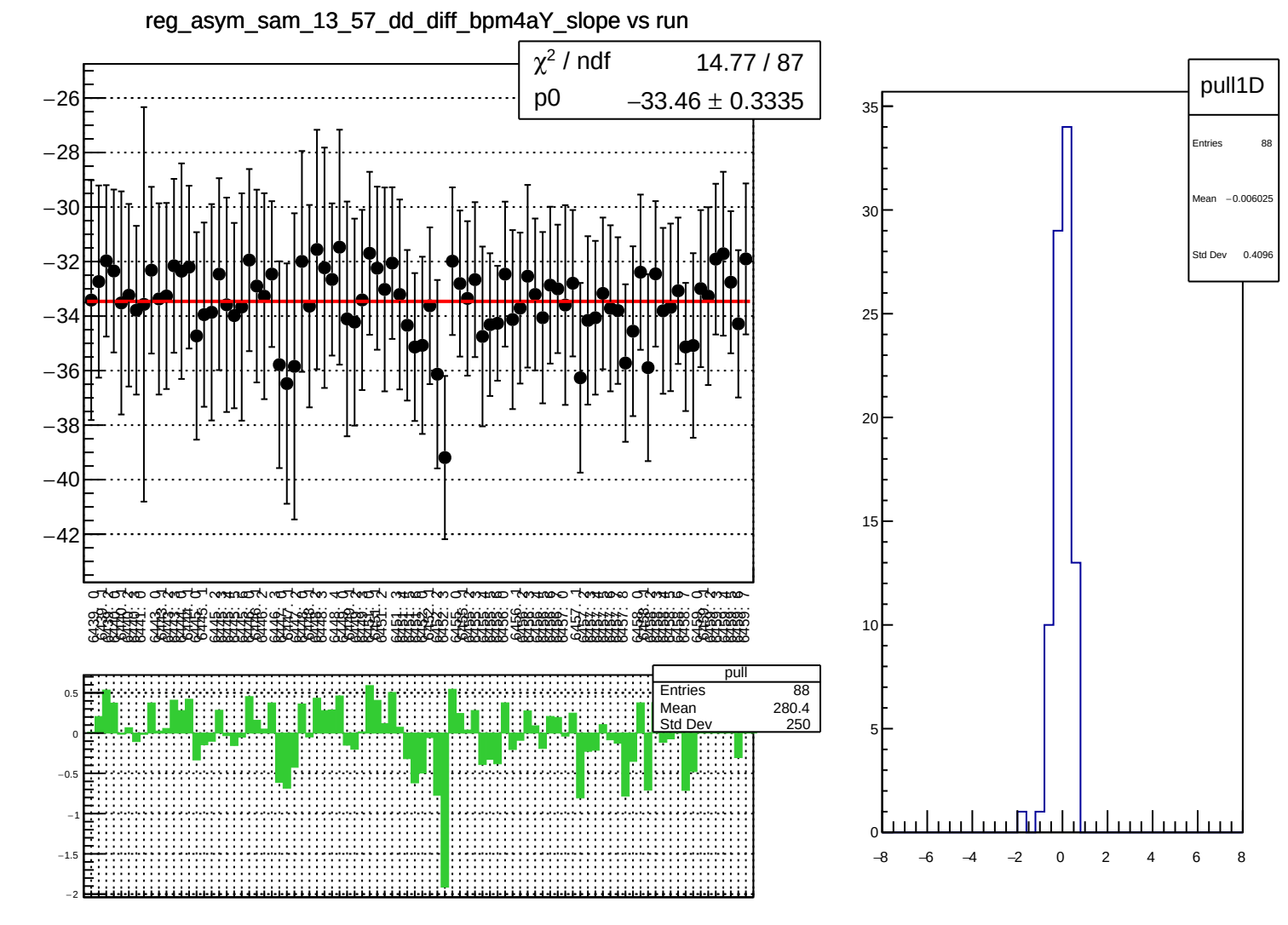

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.4 / 87
p0 98.76 ± 1.14
pull
Entries 88
Mean 622.2
Std Dev 586.3
pull1D
Entries 88
Mean −0.007693
Std Dev 0.4446

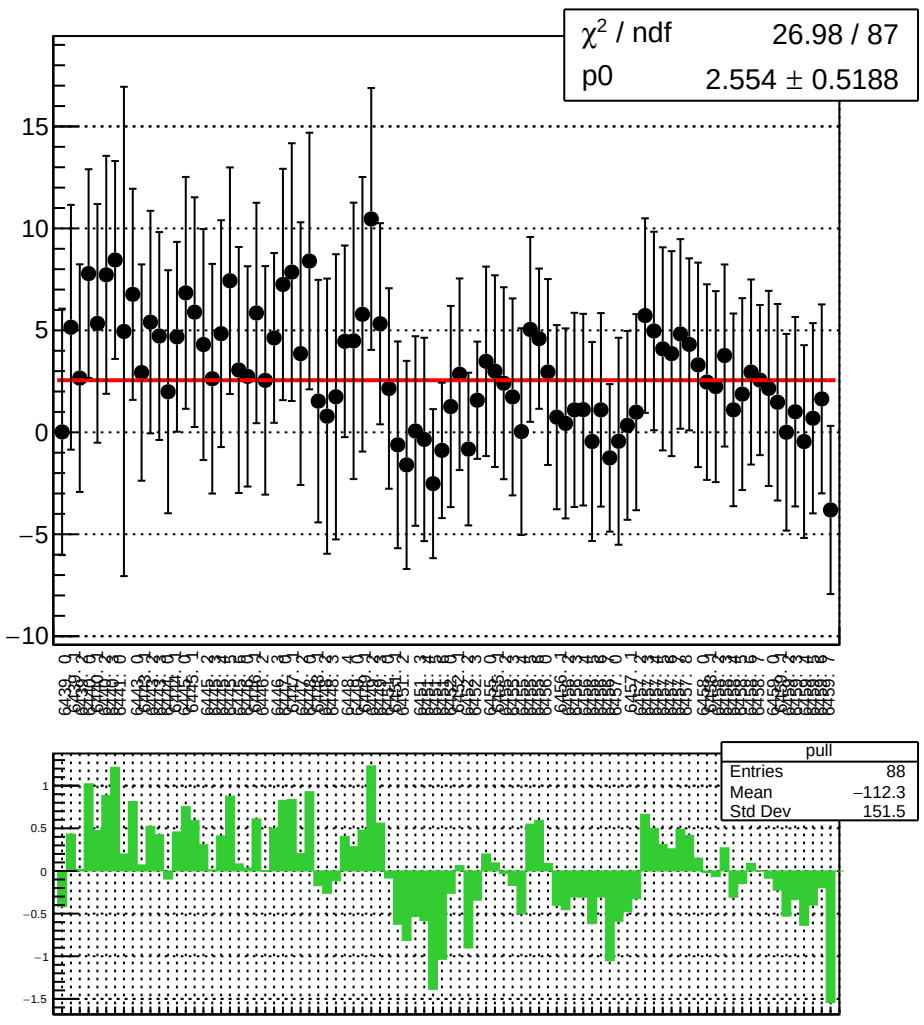

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 9.153 / 87
p0 −0.04316 ± 0.04685
pull
Entries 88
Mean 198
Std Dev 151

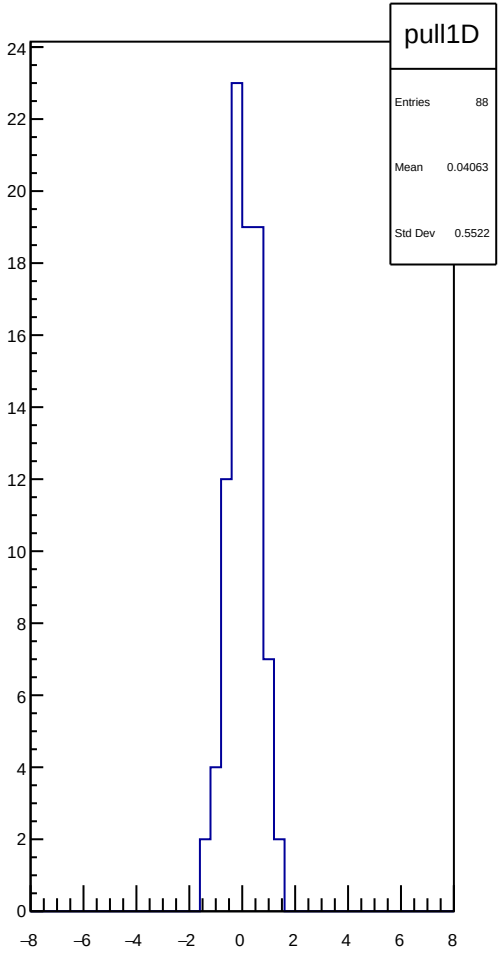

pull1D
Entries 88
Mean 0.009836
Std Dev 0.3224

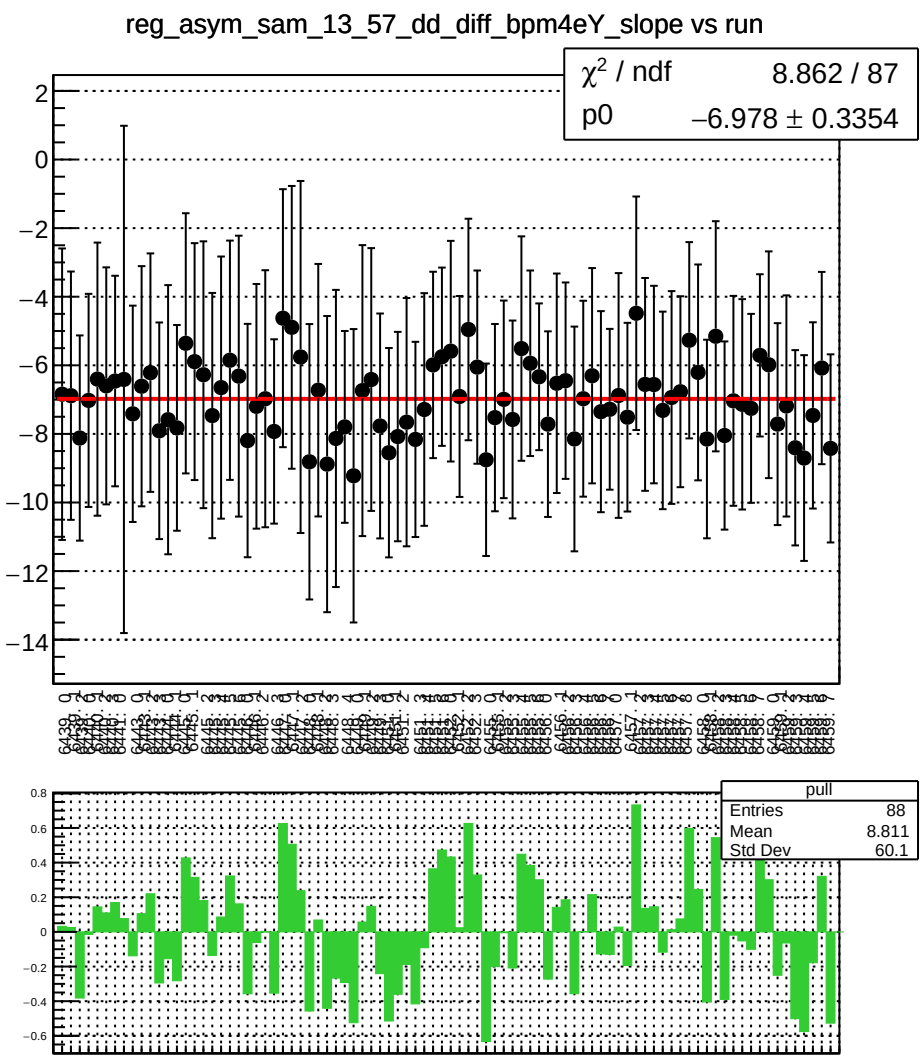

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 34.82 / 87
p0 −27.11 ± 0.4784
pull
Entries 88
Mean −393.9
Std Dev 436.3

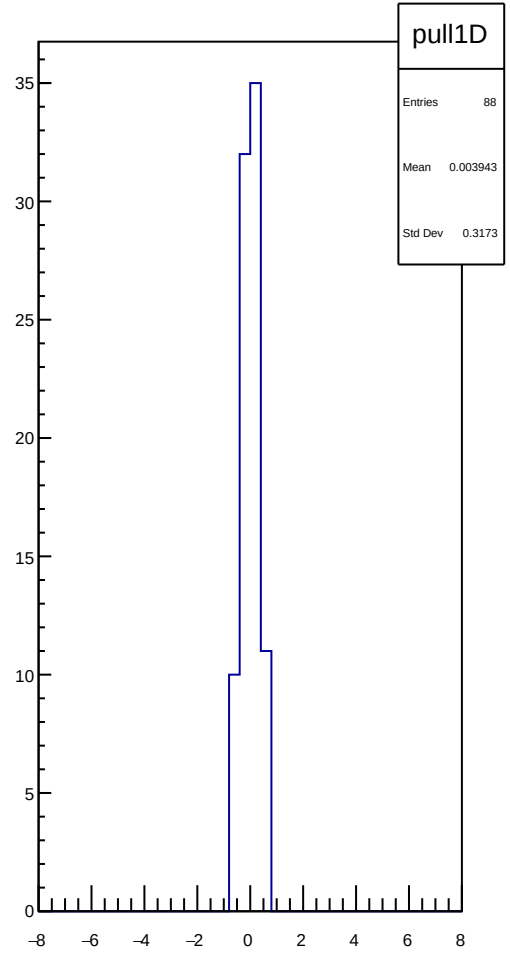

pull1D
Entries 88
Mean −0.01881
Std Dev 0.6287

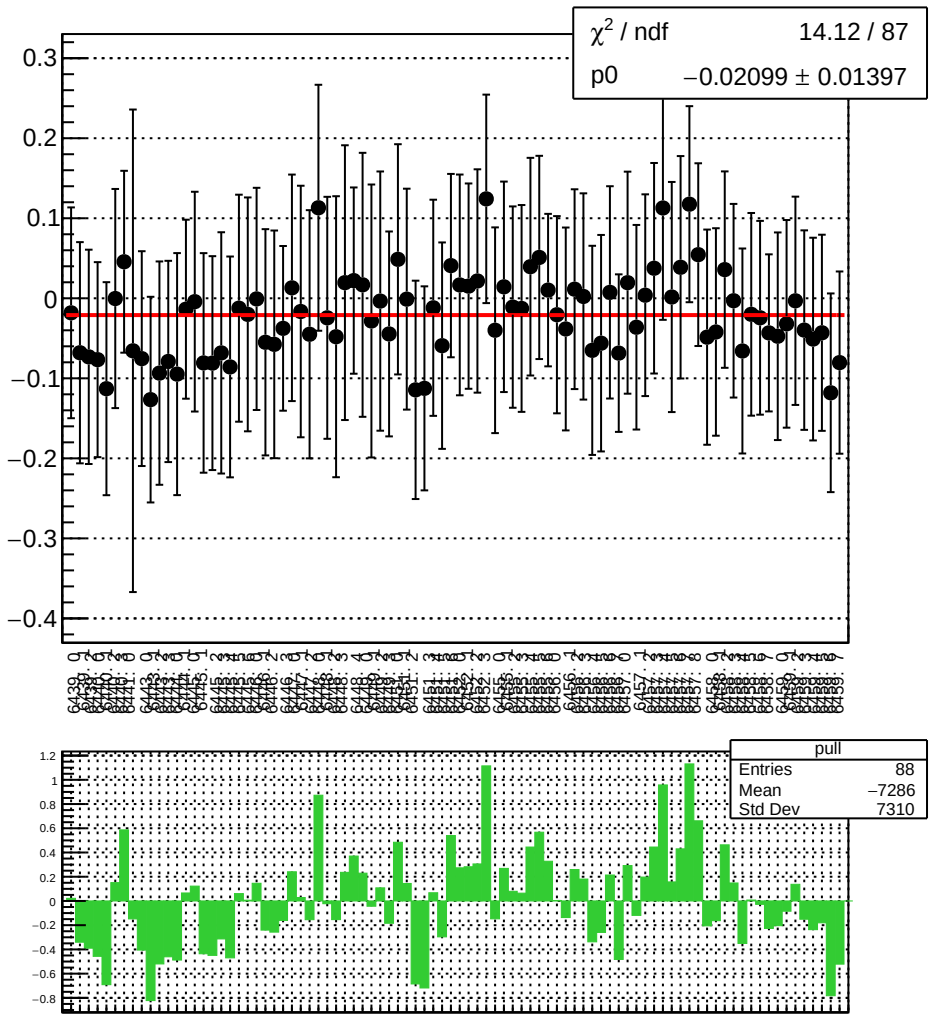

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.77 / 87
p0 −33.46 ± 0.3335
pull
Entries 88
Mean 280.4
Std Dev 250
pull1D
Entries 88
Mean −0.006025
Std Dev 0.4096

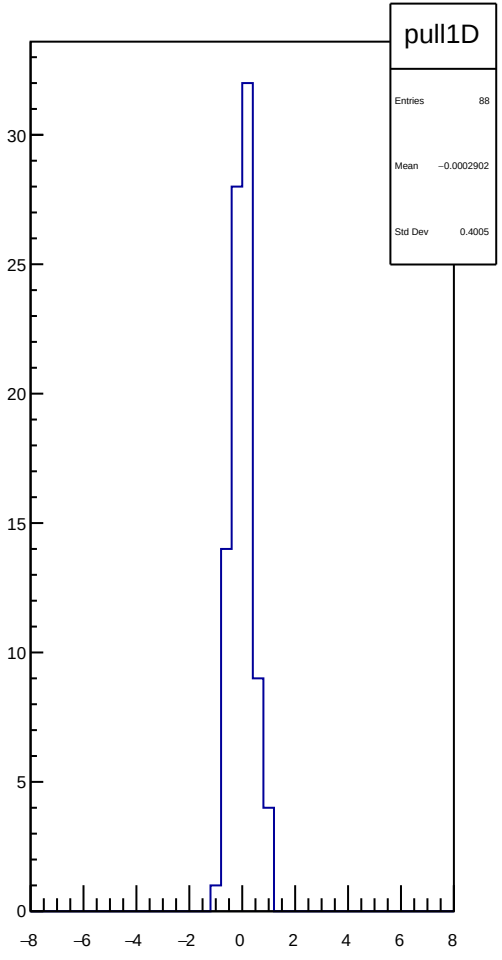

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.98 / 87
p0 2.554 ± 0.5188
pull
Entries 88
Mean −112.3
Std Dev 151.5

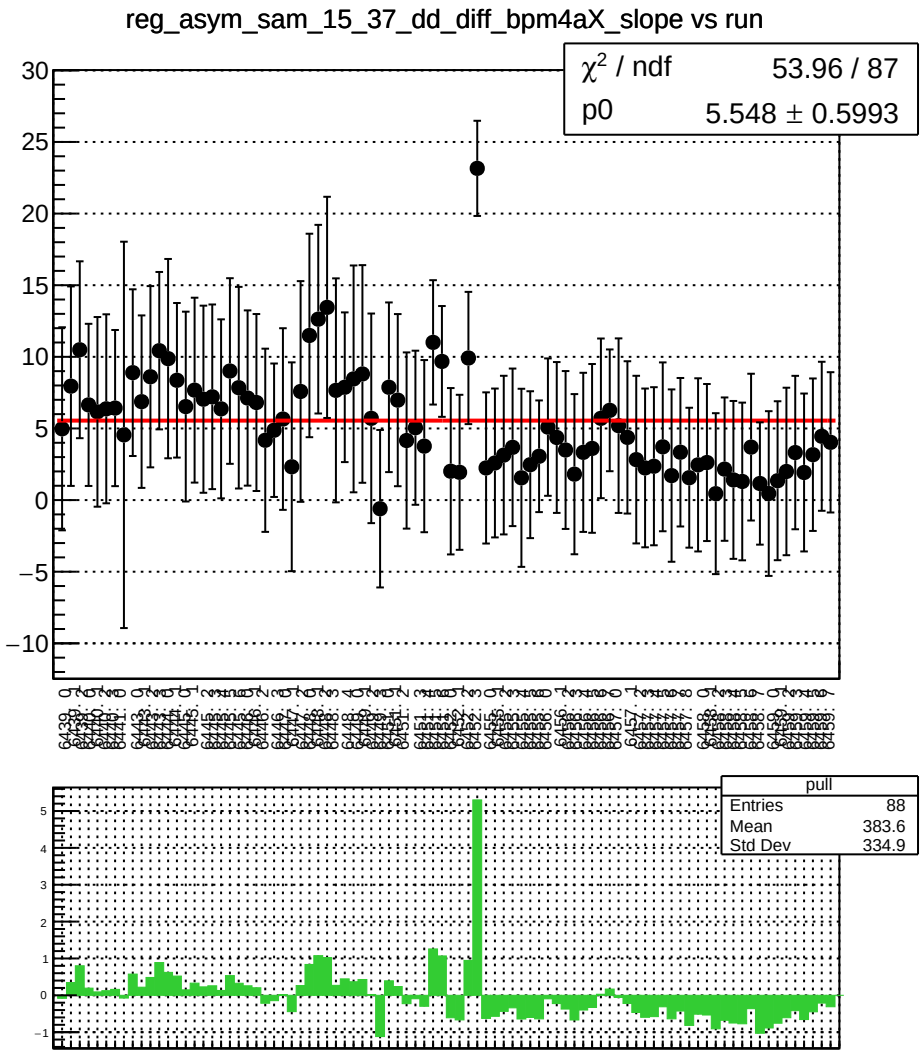

pull1D
Entries 88
Mean 0.04063
Std Dev 0.5522

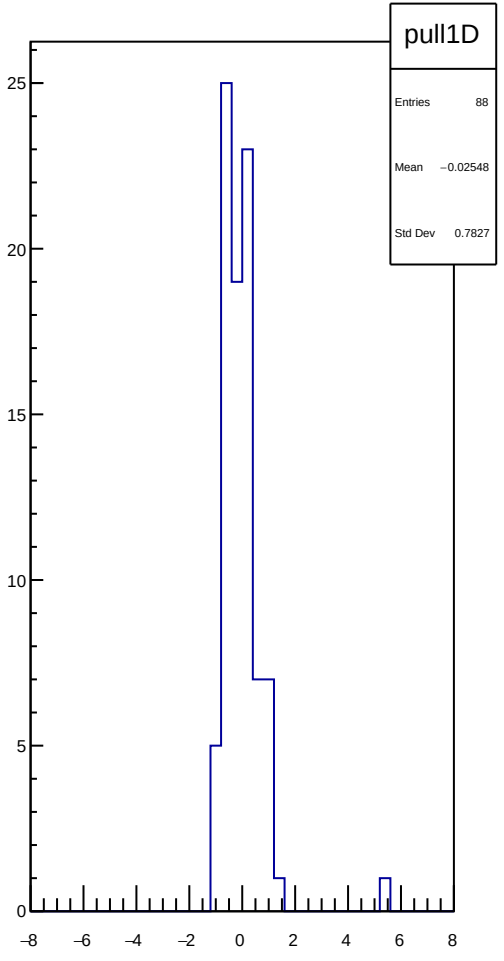

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.862 / 87
p0 −6.978 ± 0.3354
pull
Entries 88
Mean 8.811
Std Dev 60.1

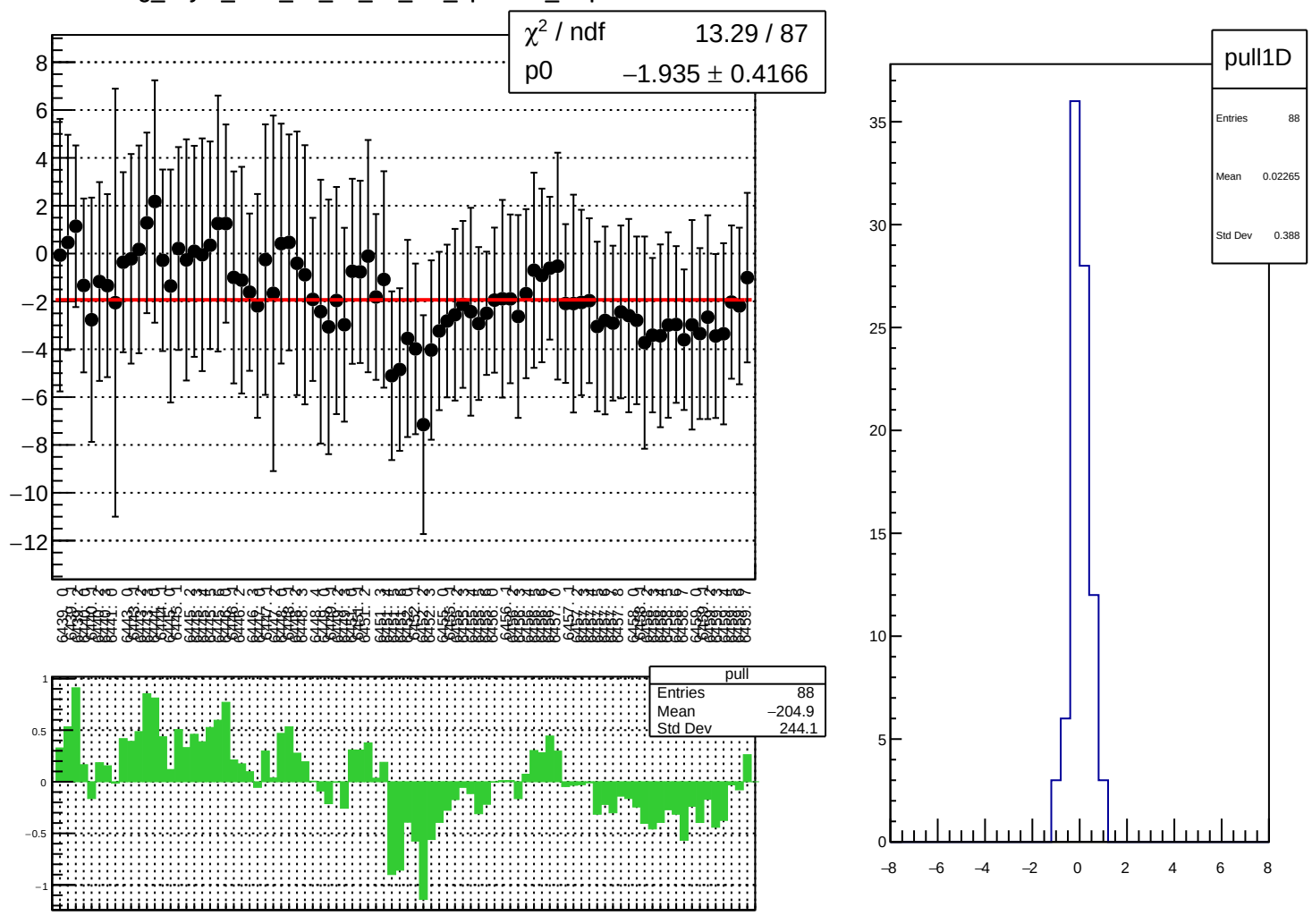

pull1D
Entries 88
Mean 0.003943
Std Dev 0.3173

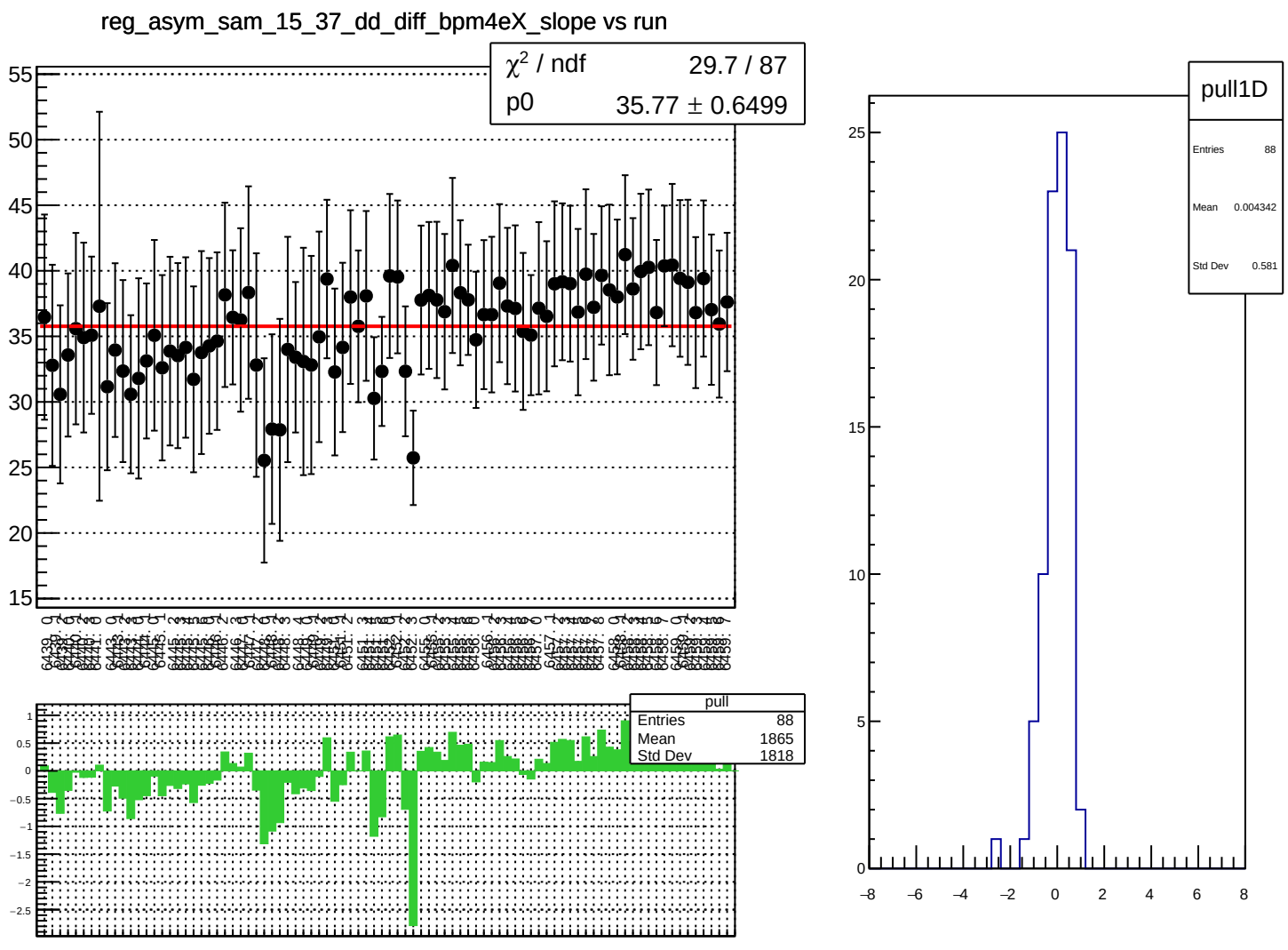

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 14.12 / 87
p0 −0.02099 ± 0.01397
pull
Entries 88
Mean −7286
Std Dev 7310

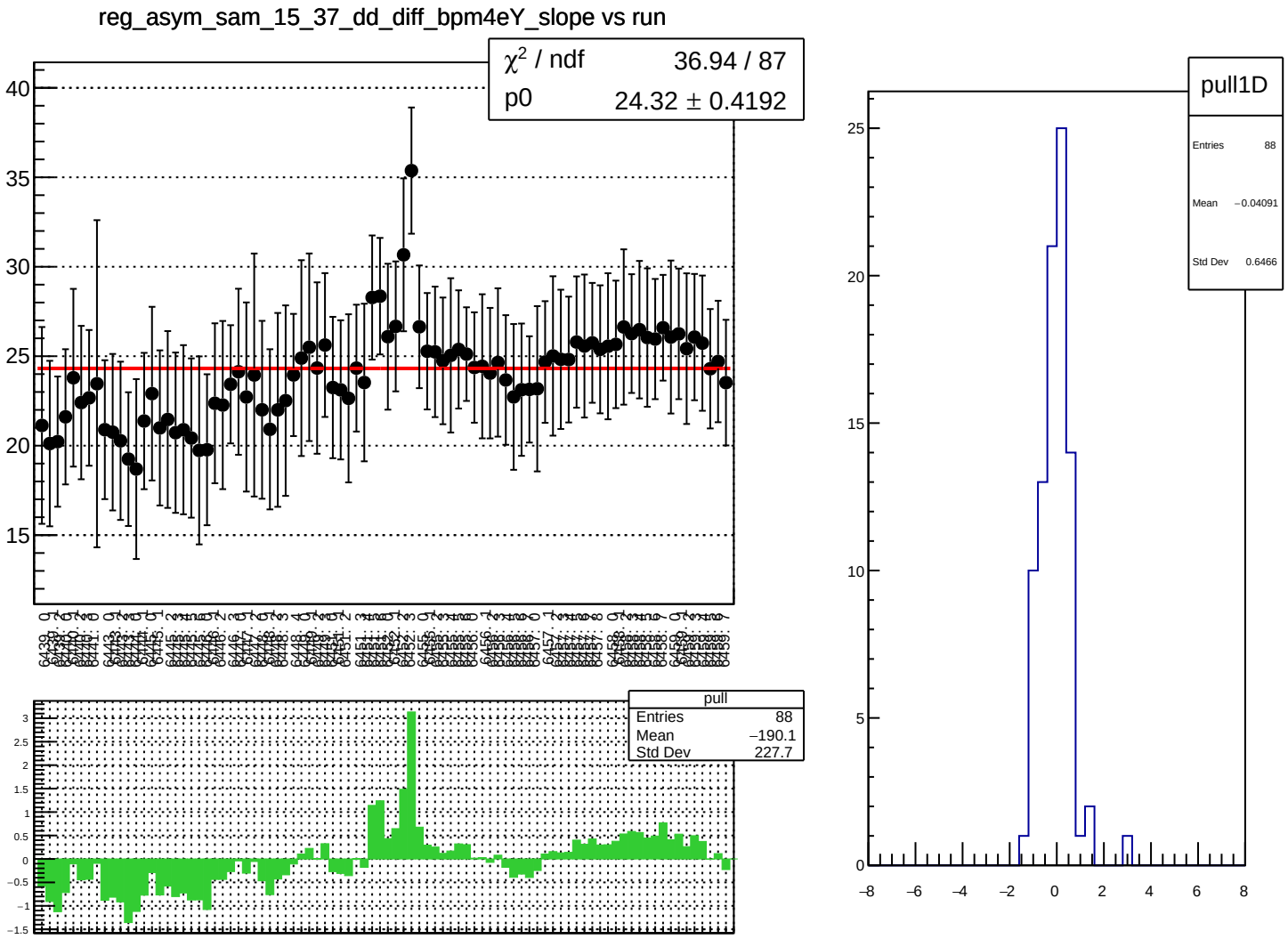

pull1D
Entries 88
Mean −0.0002902
Std Dev 0.4005

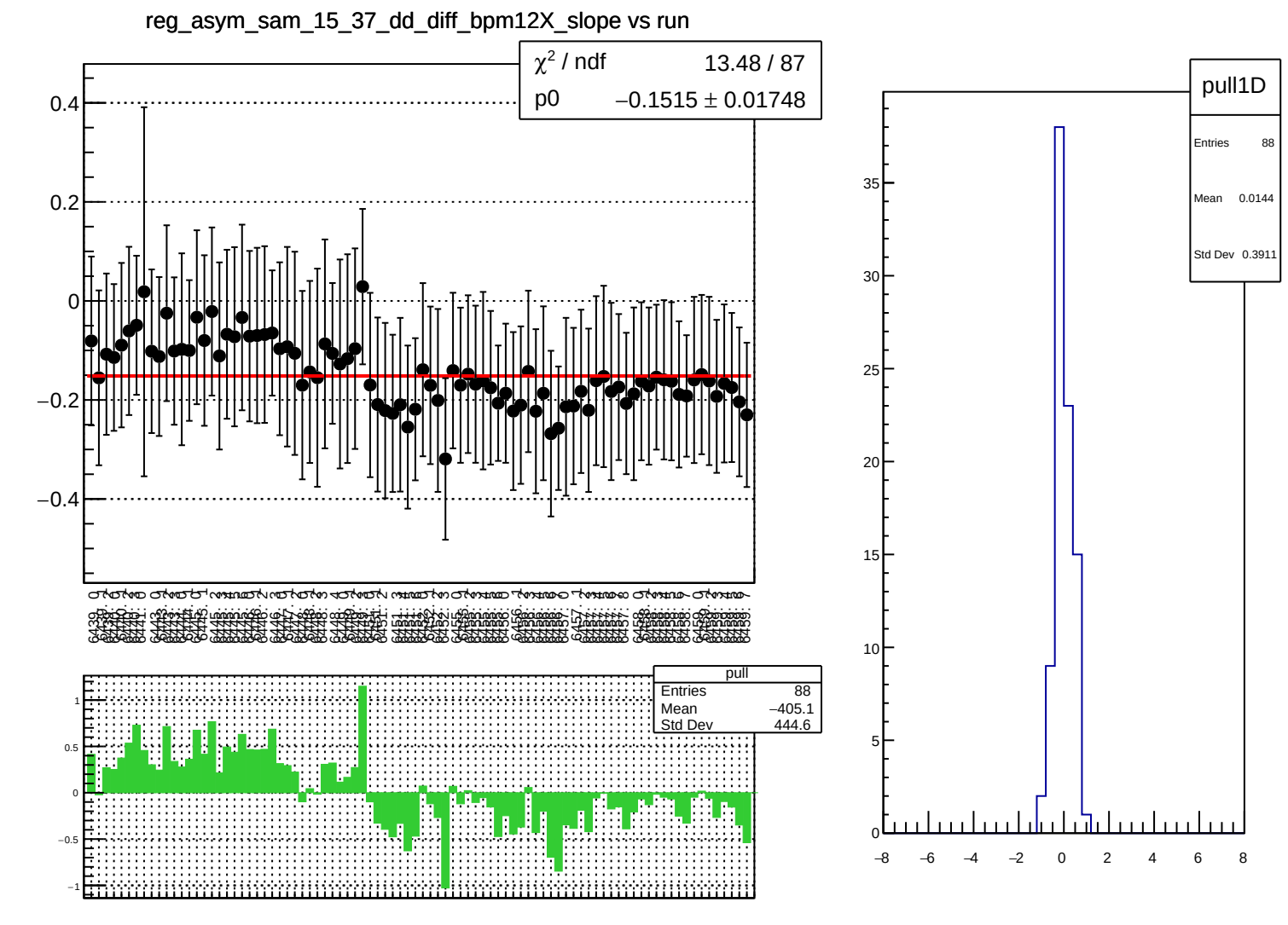

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 53.96 / 87
p0 5.548 ± 0.5993
pull
Entries 88
Mean 383.6
Std Dev 334.9

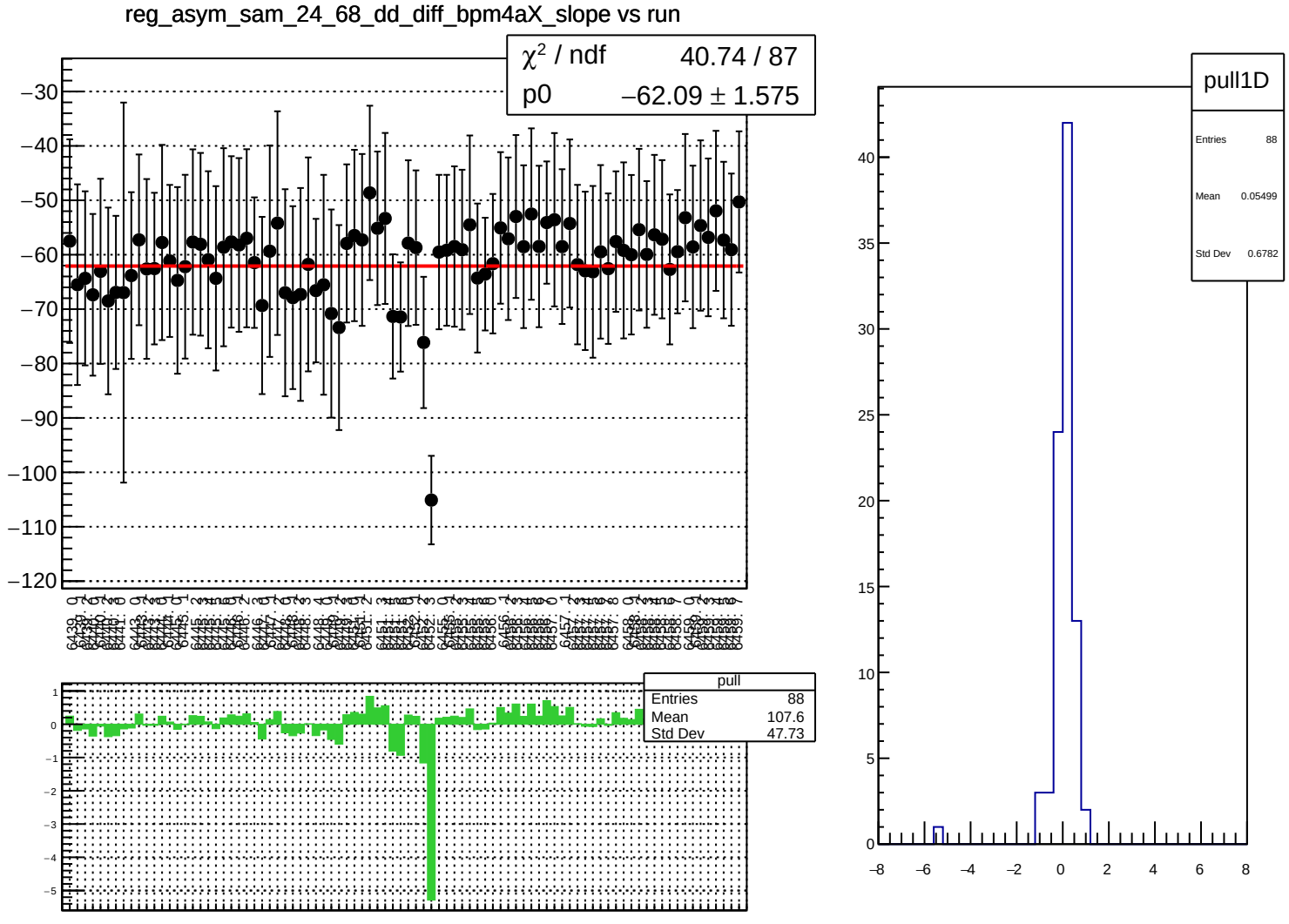

pull1D
Entries 88
Mean −0.02548
Std Dev 0.7827

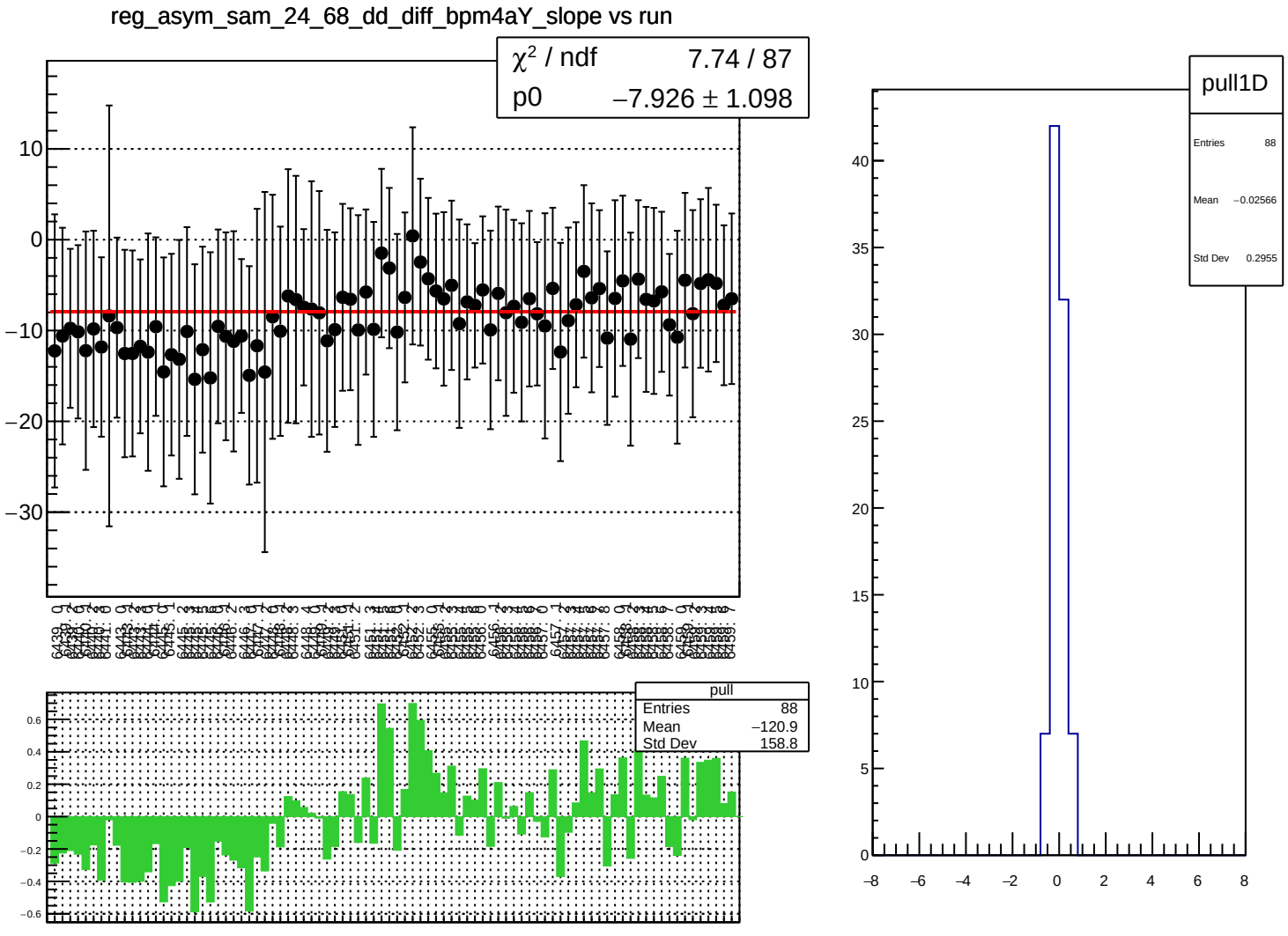

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.29 / 87
p0 −1.935 ± 0.4166
pull
Entries 88
Mean −204.9
Std Dev 244.1
pull1D
Entries 88
Mean 0.02265
Std Dev 0.388

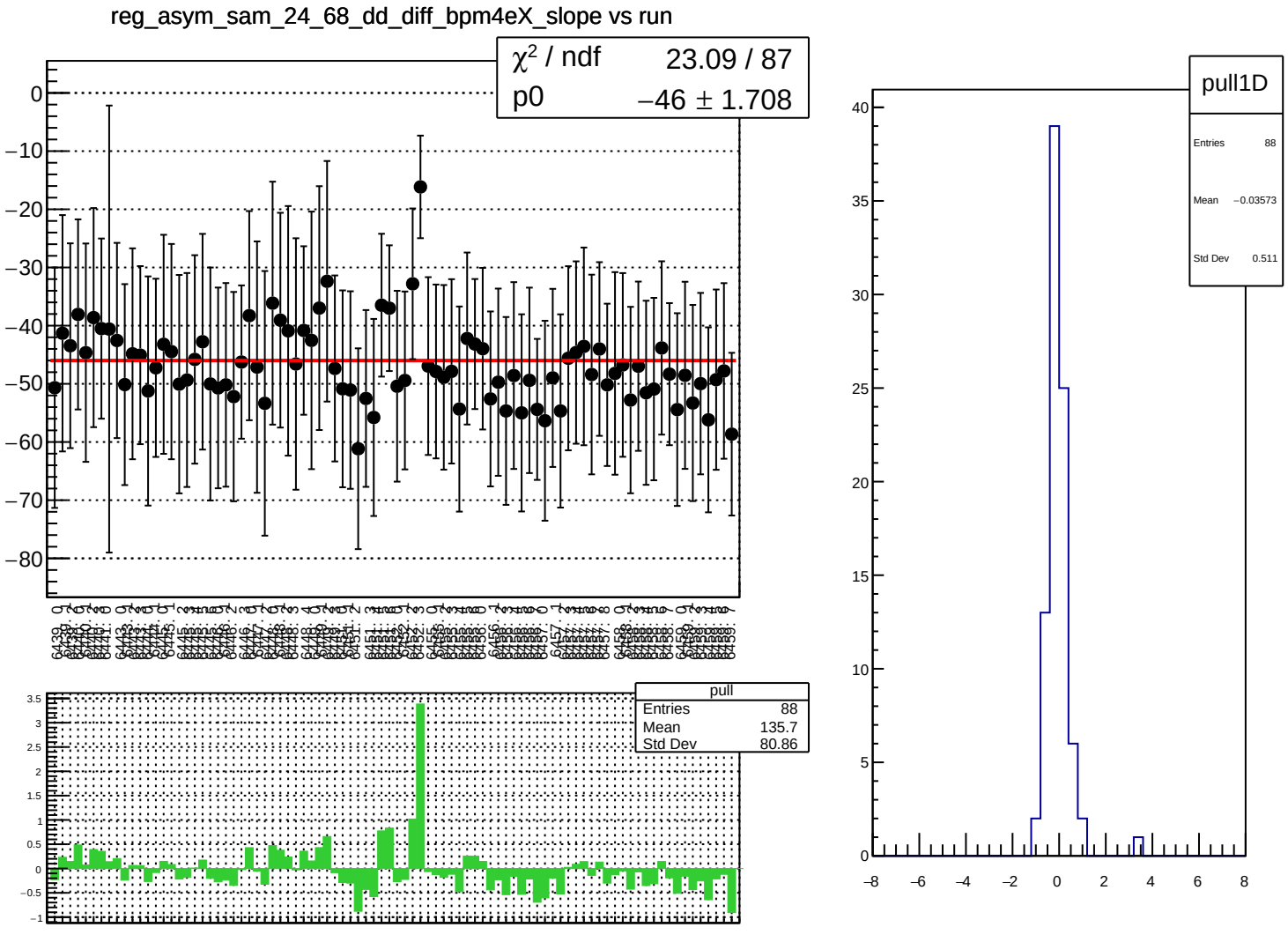

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.7 / 87
p0 35.77 ± 0.6499
pull
Entries 88
Mean 1865
Std Dev 1818
pull1D
Entries 88
Mean 0.004342
Std Dev 0.581

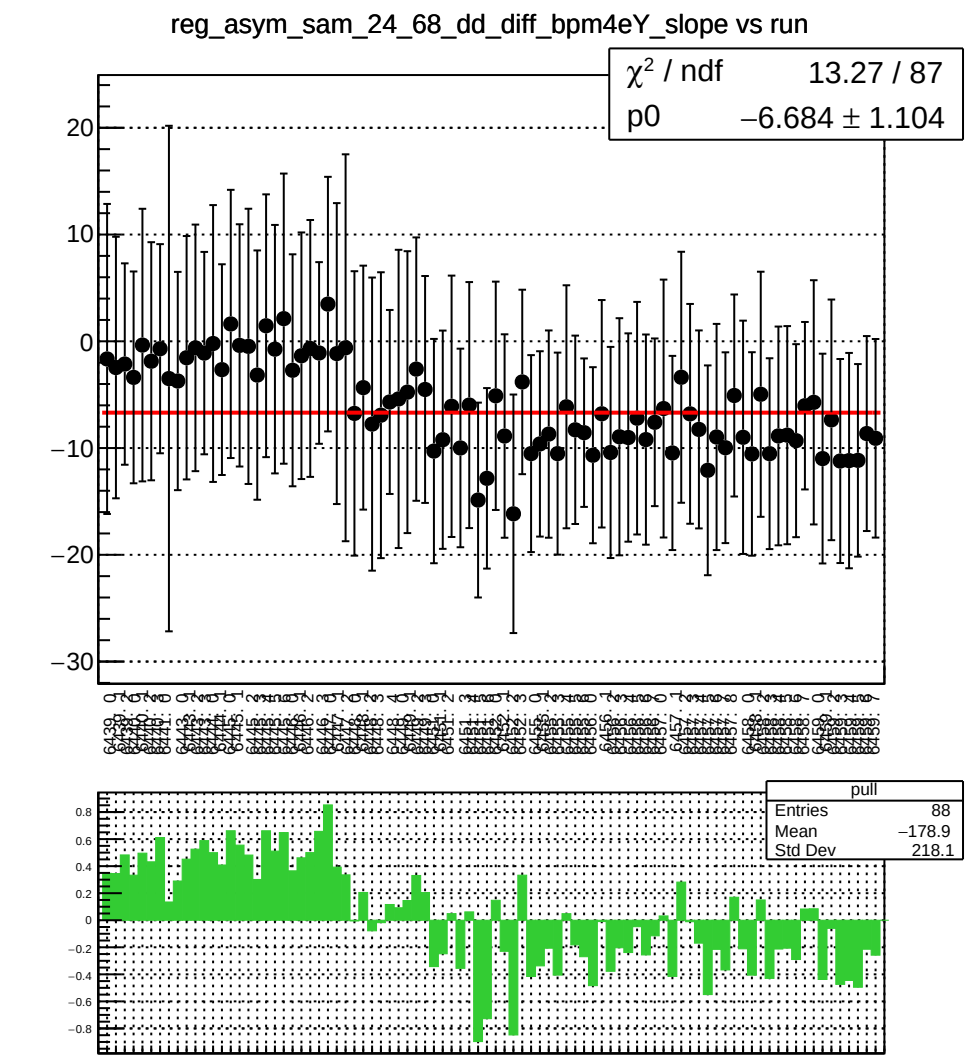

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.94 / 87
p0 24.32 ± 0.4192
pull
Entries 88
Mean −190.1
Std Dev 227.7
pull1D
Entries 88
Mean −0.04091
Std Dev 0.6466

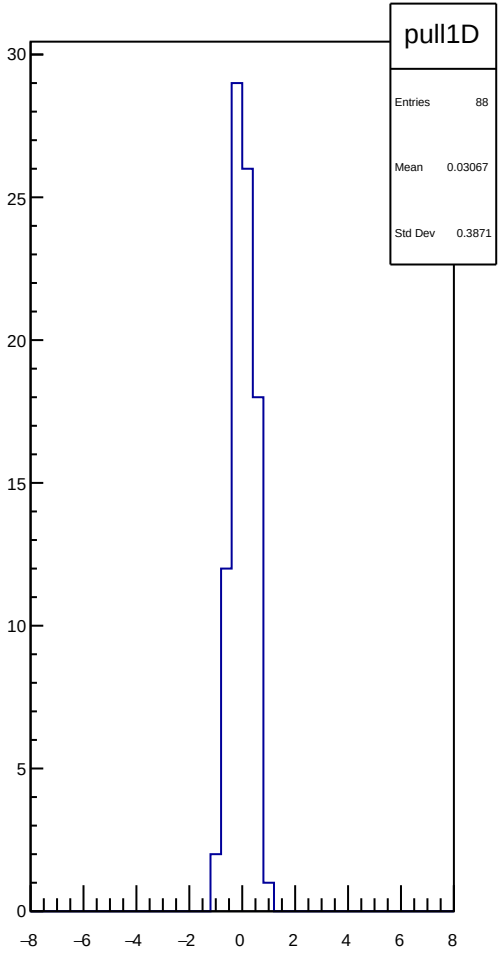

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 13.48 / 87
p0 −0.1515 ± 0.01748
pull
Entries 88
Mean −405.1
Std Dev 444.6
pull1D
Entries 88
Mean 0.0144
Std Dev 0.3911

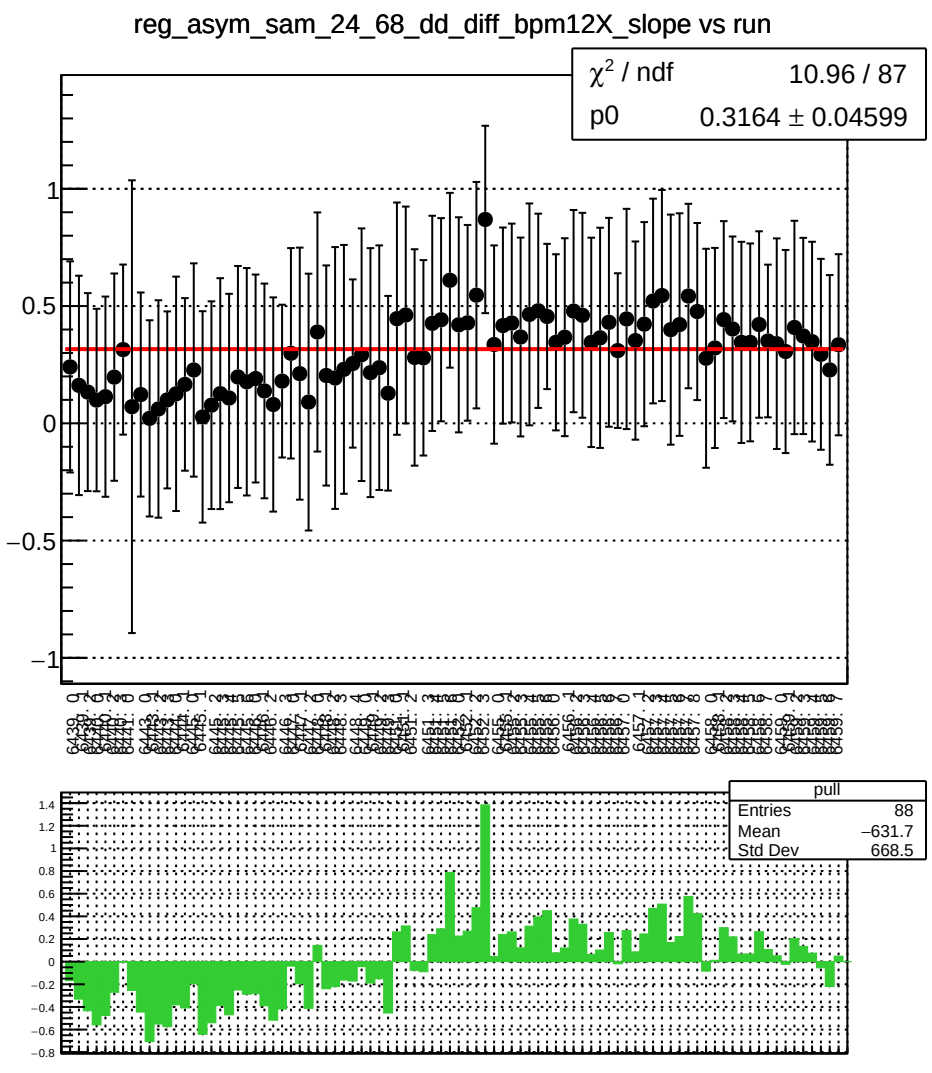

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 40.74 / 87
p0 −62.09 ± 1.575
pull
Entries 88
Mean 107.6
Std Dev 47.73
pull1D
Entries 88
Mean 0.05499
Std Dev 0.6782

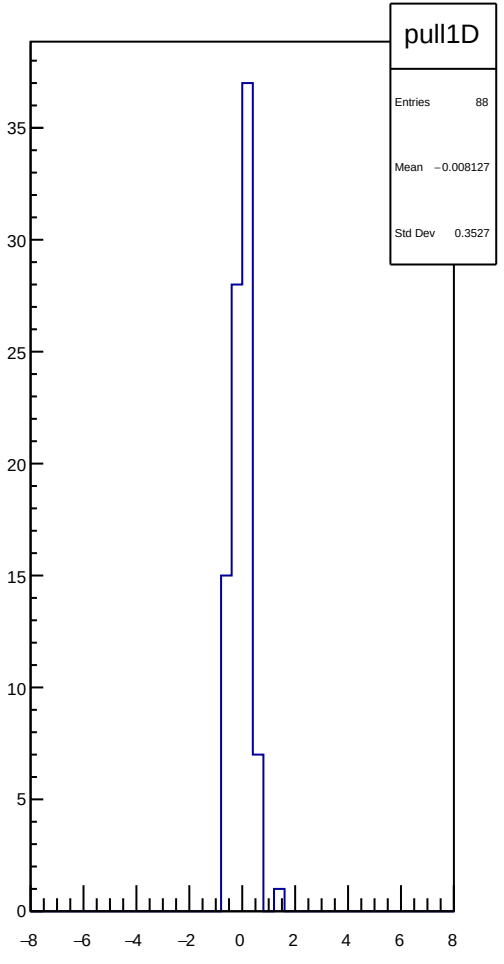

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.74 / 87
p0 −7.926 ± 1.098
pull
Entries 88
Mean −120.9
Std Dev 158.8
pull1D
Entries 88
Mean −0.02566
Std Dev 0.2955

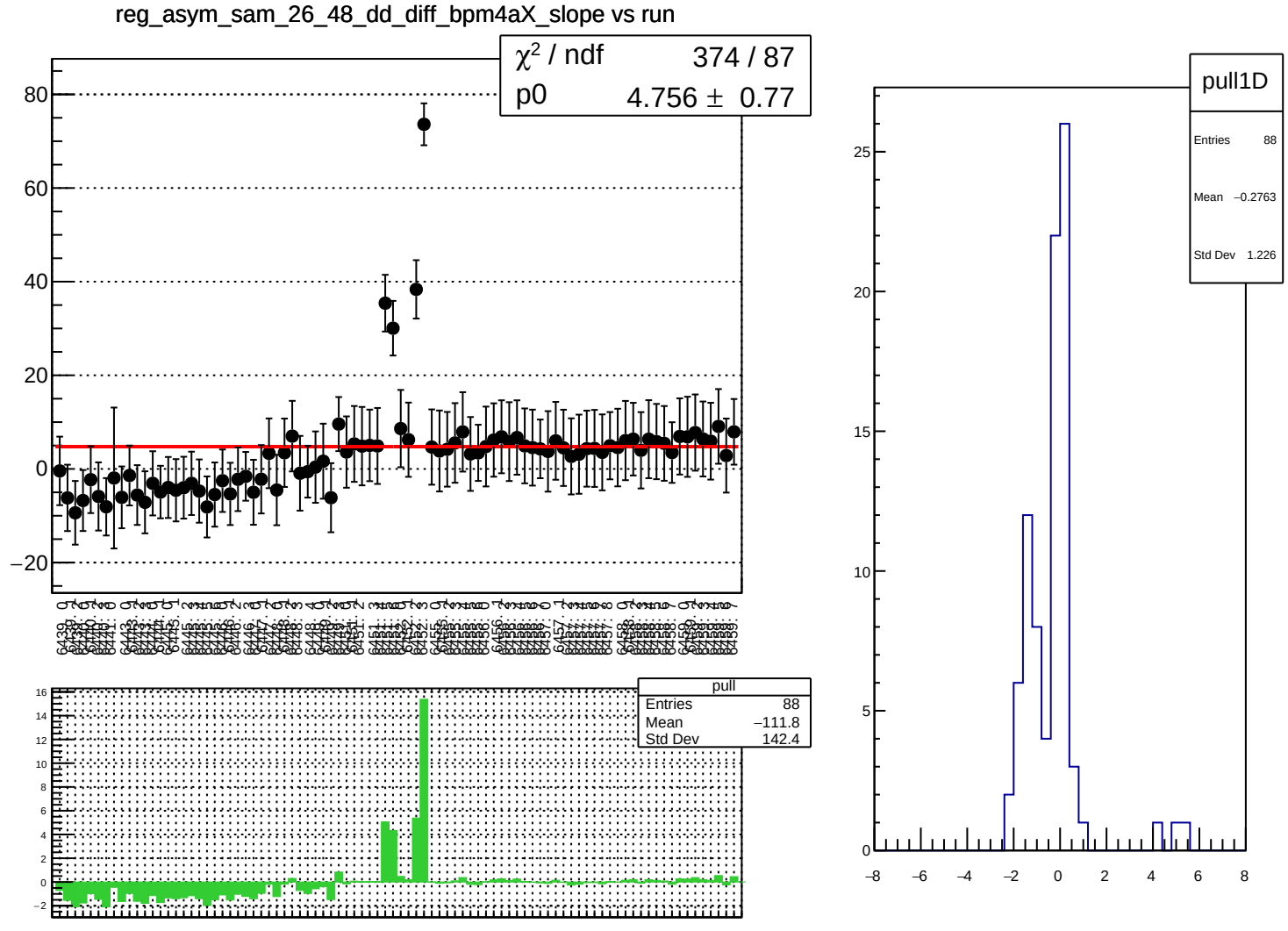

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.09 / 87
p0 −46 ± 1.708
pull
Entries 88
Mean 135.7
Std Dev 80.86
pull1D
Entries 88
Mean −0.03573
Std Dev 0.511

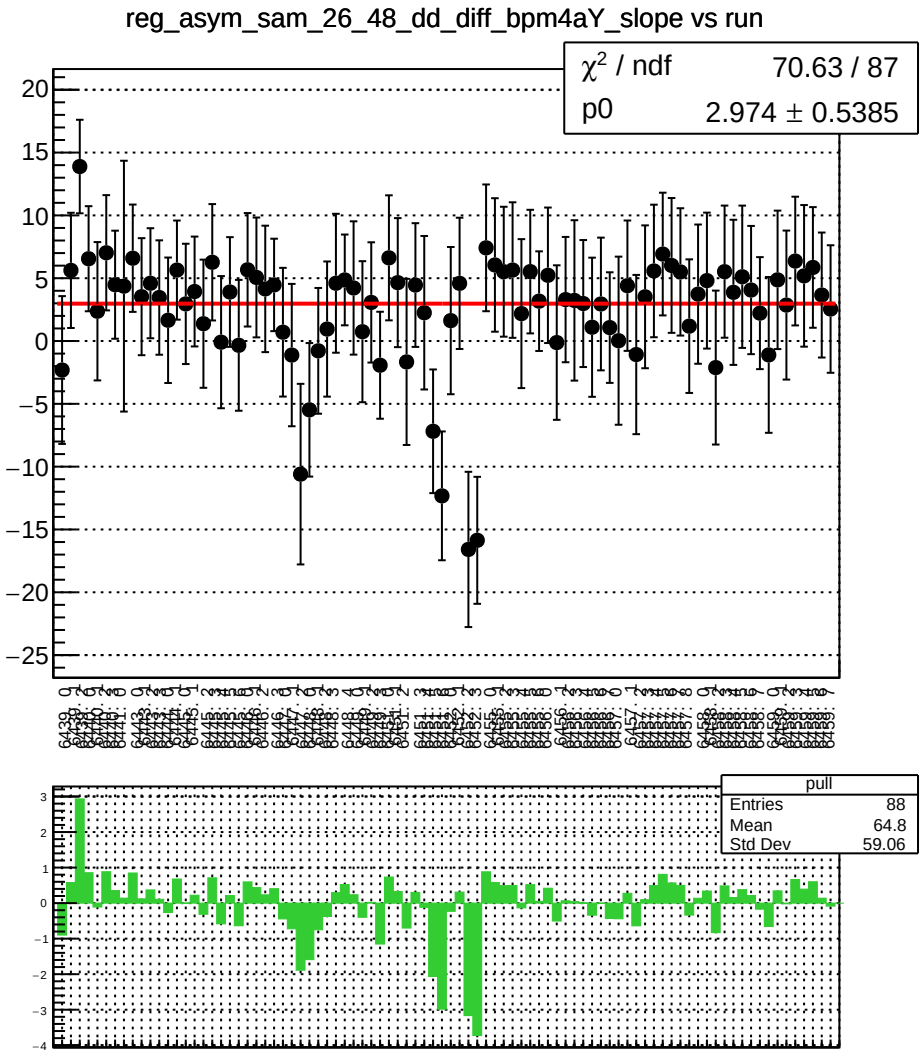

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.27 / 87
p0 −6.684 ± 1.104
pull
Entries 88
Mean −178.9
Std Dev 218.1

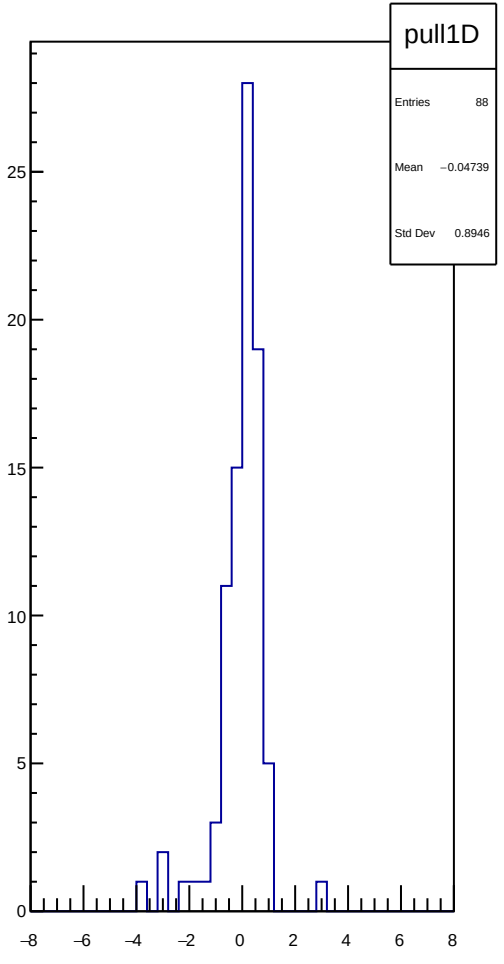

pull1D
Entries 88
Mean 0.03067
Std Dev 0.3871

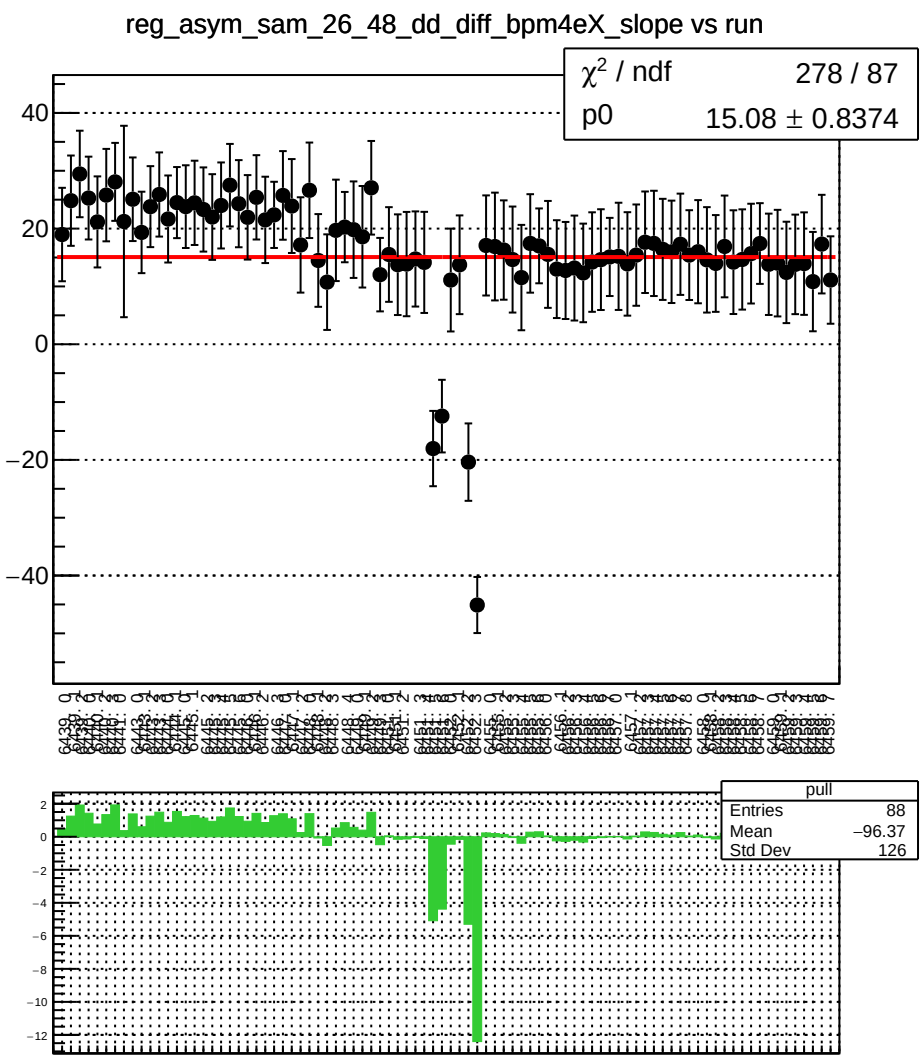

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 10.96 / 87
p0 0.3164 ± 0.04599
pull
Entries 88
Mean −631.7
Std Dev 668.5

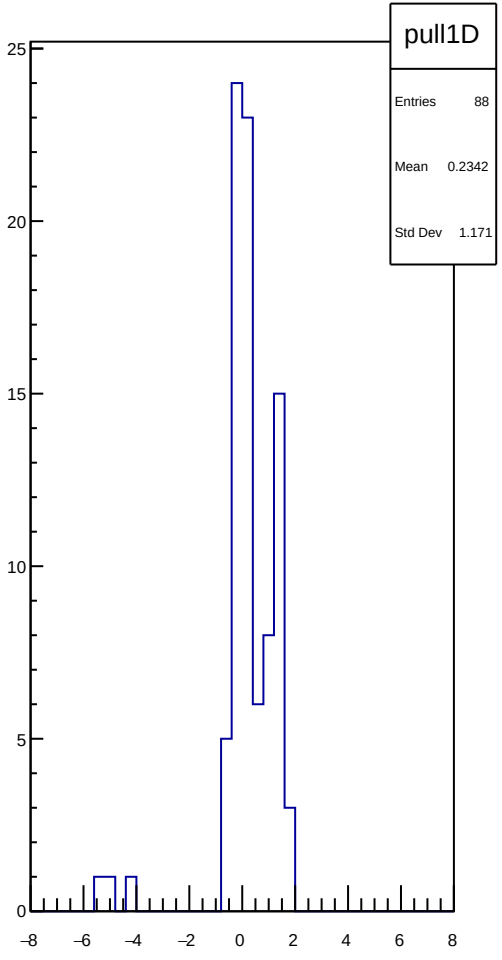

pull1D
Entries 88
Mean −0.008127
Std Dev 0.3527

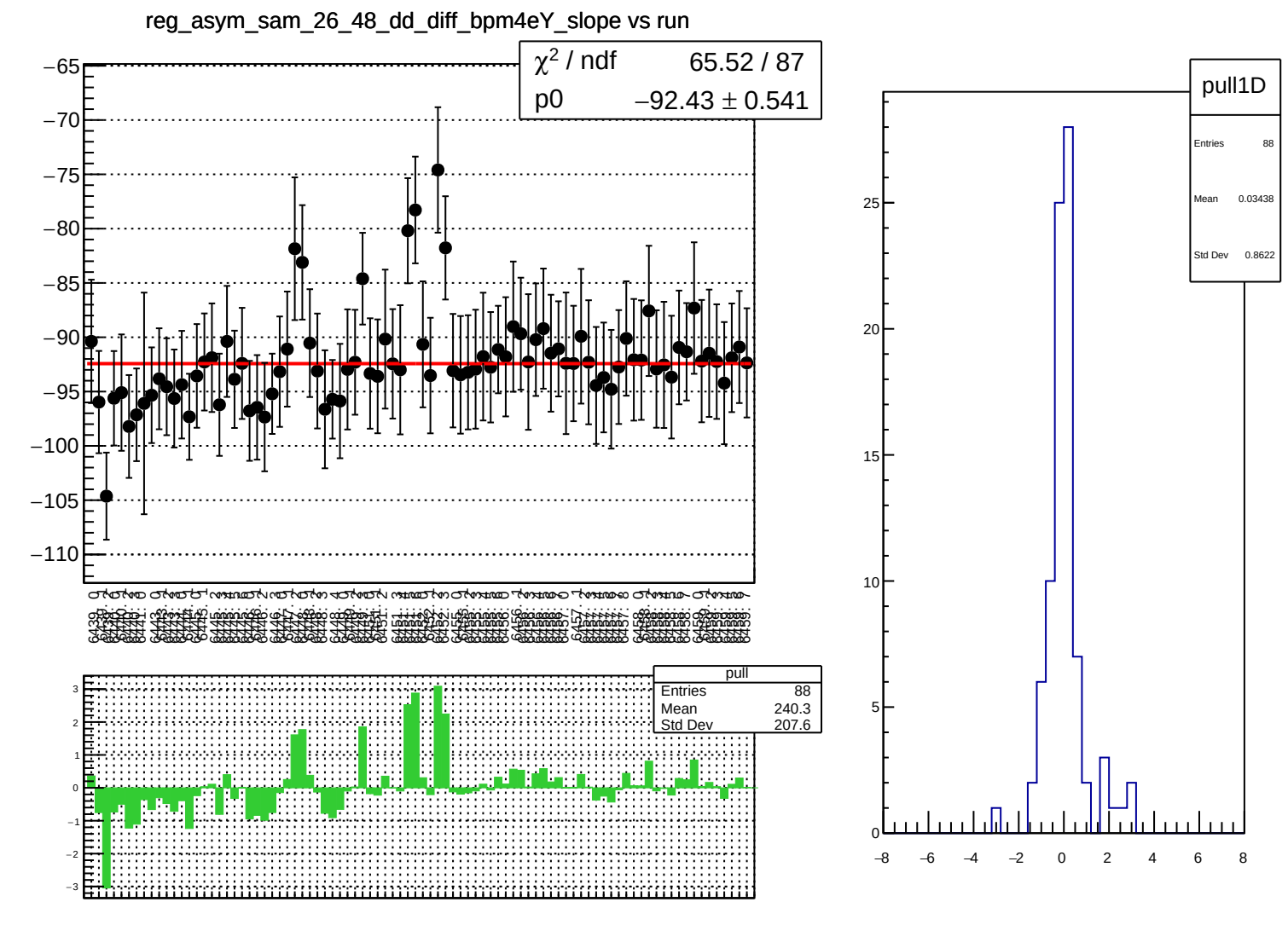

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 374 / 87
p0 4.756 ± 0.77
pull
Entries 88
Mean −111.8
Std Dev 142.4
pull1D
Entries 88
Mean −0.2763
Std Dev 1.226

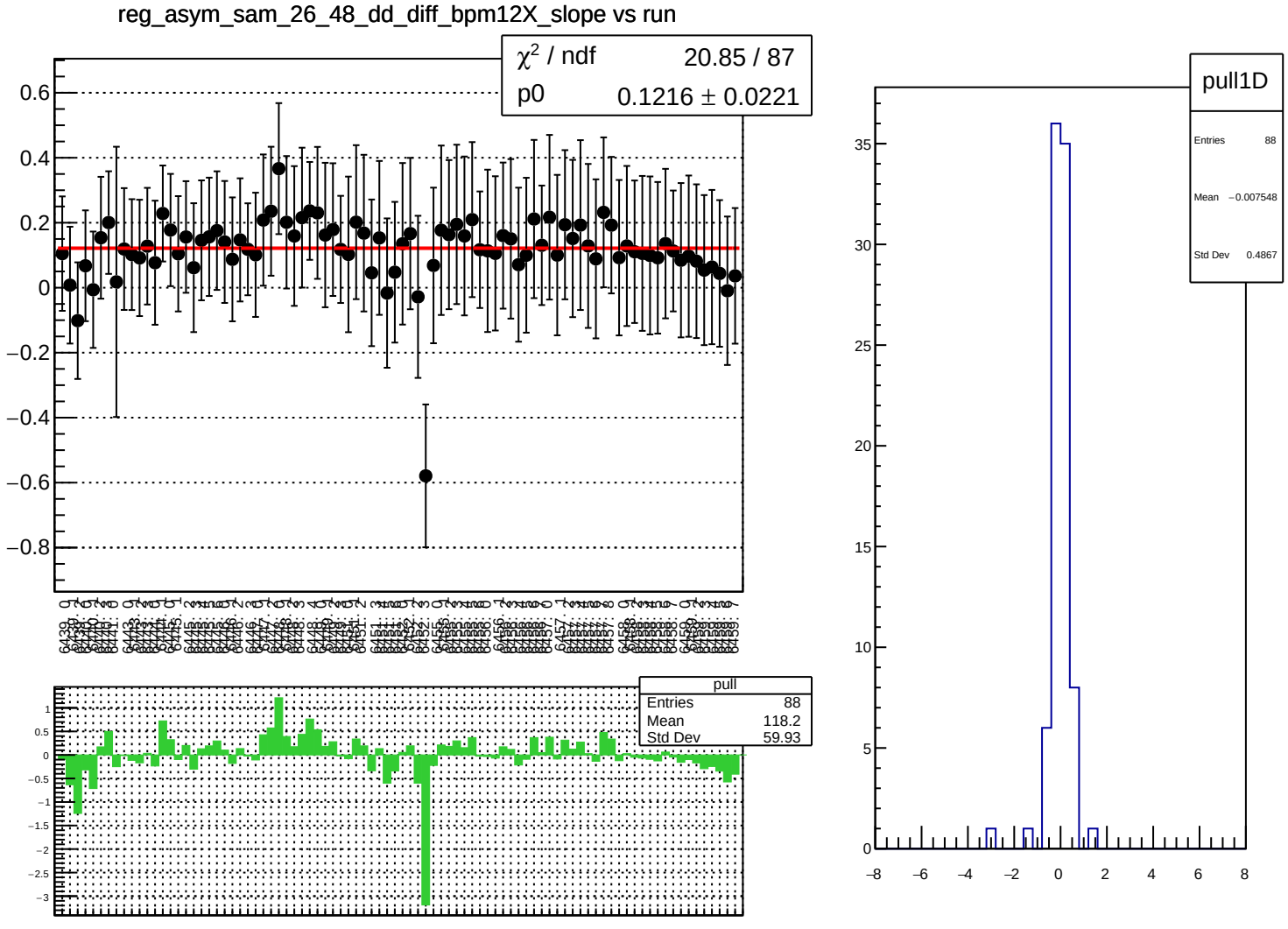

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 70.63 / 87
p0 2.974 ± 0.5385
pull
Entries 88
Mean 64.8
Std Dev 59.06

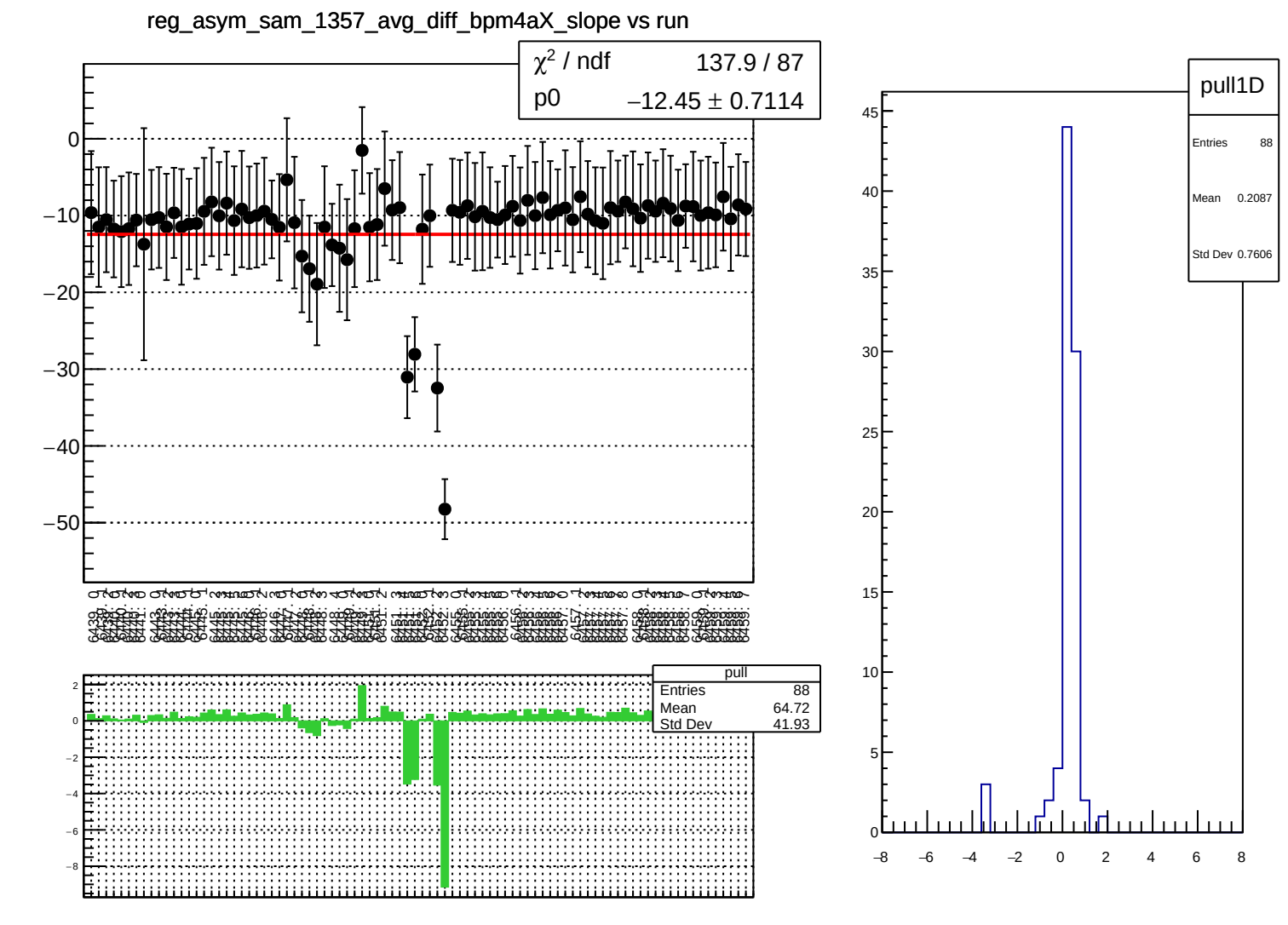

pull1D
Entries 88
Mean −0.04739
Std Dev 0.8946

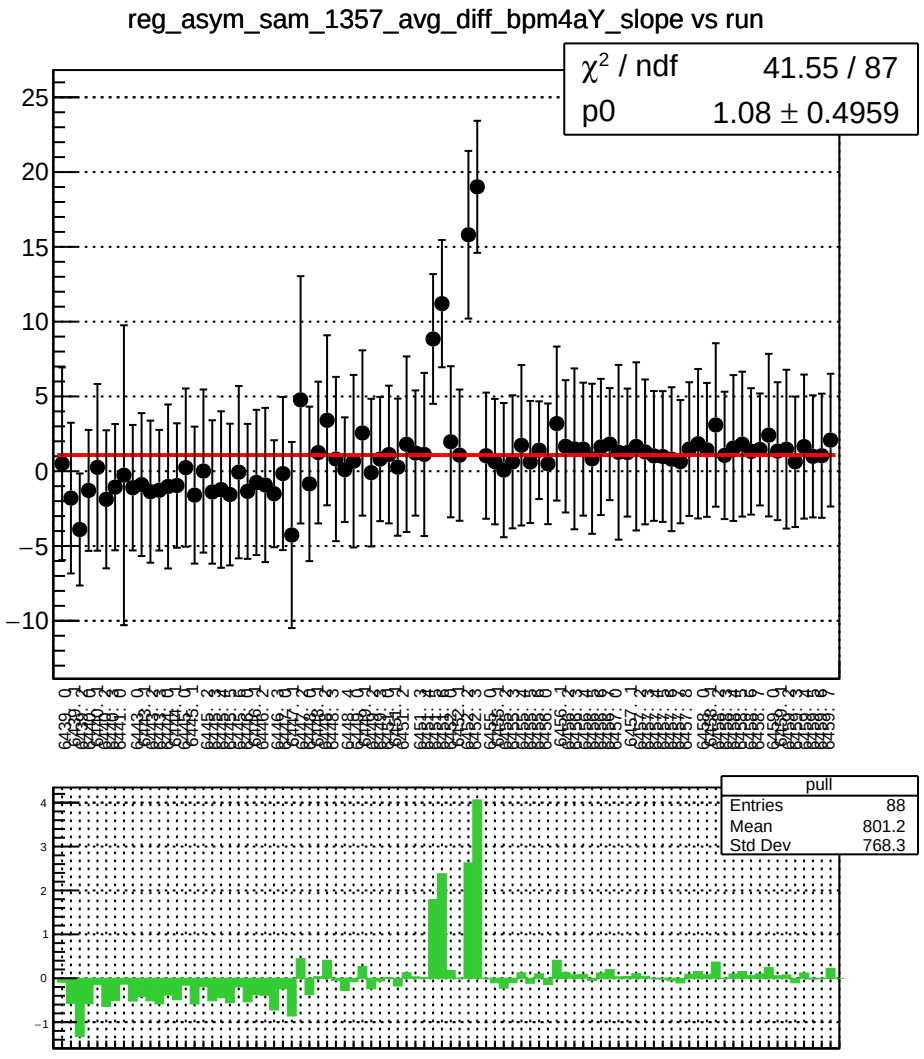

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 278 / 87
p0 15.08 ± 0.8374
pull
Entries 88
Mean −96.37
Std Dev 126

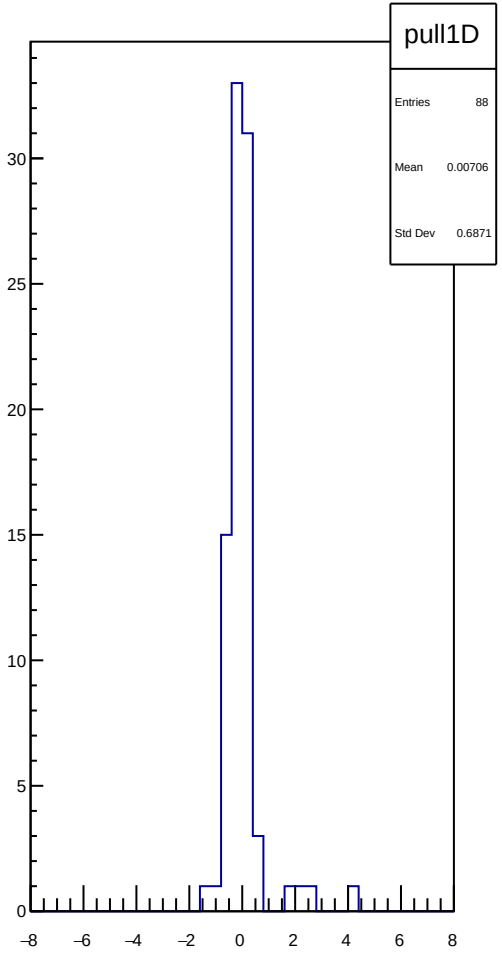

pull1D
Entries 88
Mean 0.2342
Std Dev 1.171

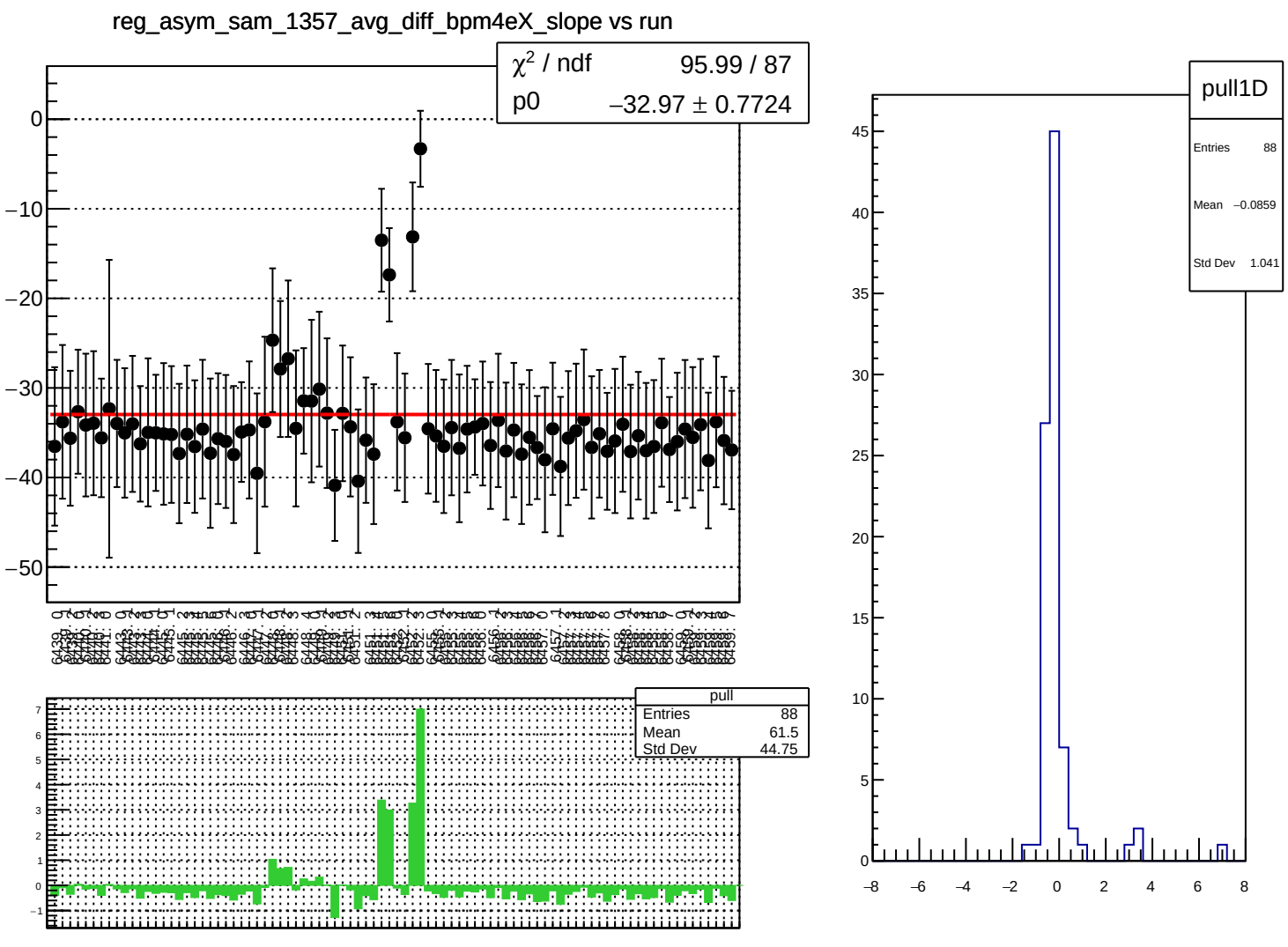

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.52 / 87
p0 −92.43 ± 0.541
pull
Entries 88
Mean 240.3
Std Dev 207.6
pull1D
Entries 88
Mean 0.03438
Std Dev 0.8622

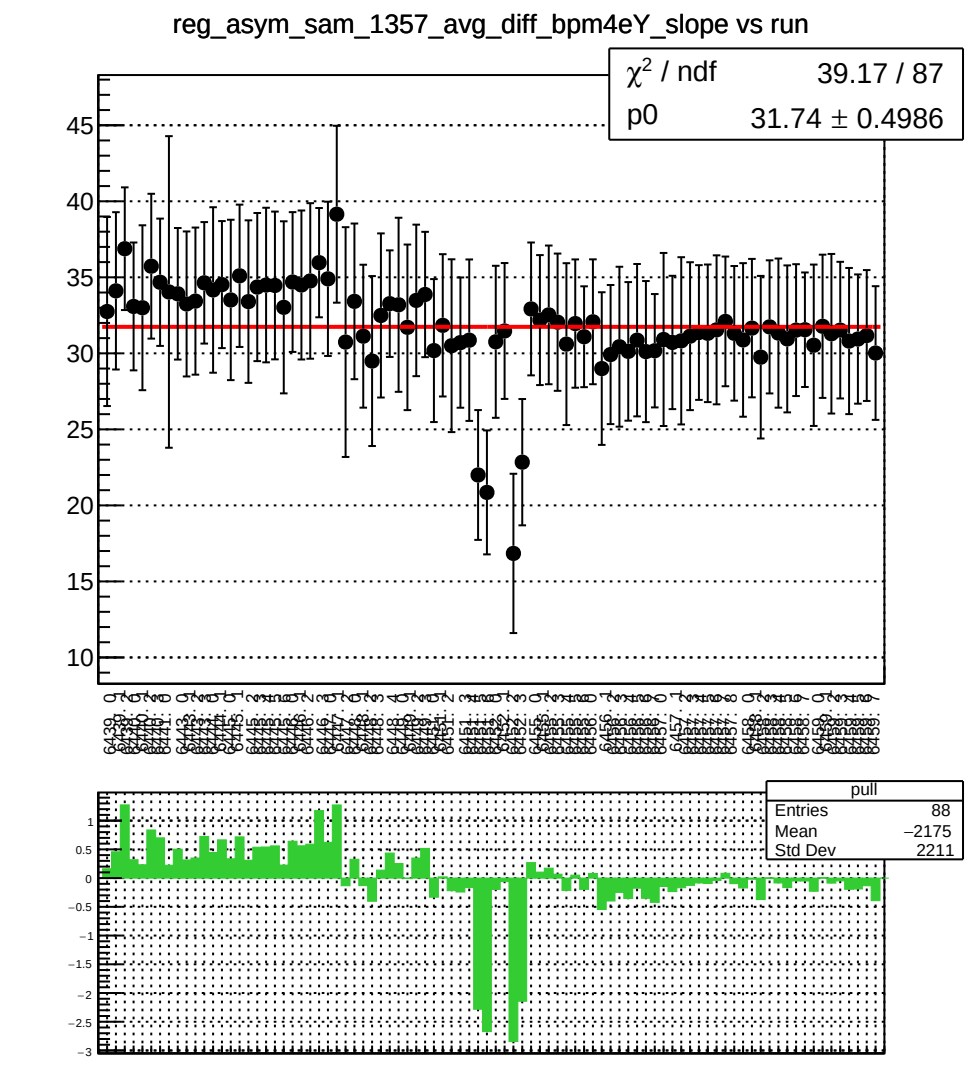

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 20.85 / 87
p0 0.1216 ± 0.0221
pull
Entries 88
Mean 118.2
Std Dev 59.93
pull1D
Entries 88
Mean −0.007548
Std Dev 0.4867

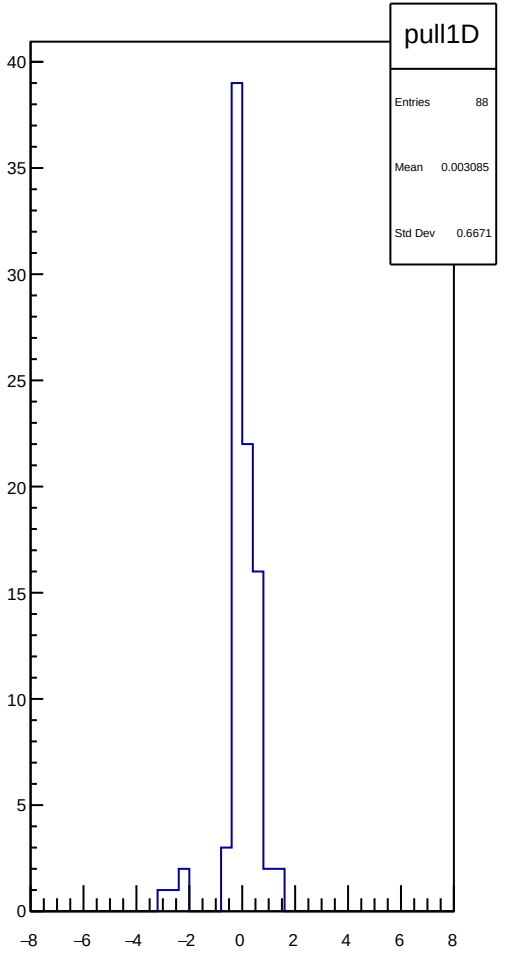

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 137.9 / 87
p0 −12.45 ± 0.7114
pull
Entries 88
Mean 64.72
Std Dev 41.93
pull1D
Entries 88
Mean 0.2087
Std Dev 0.7606

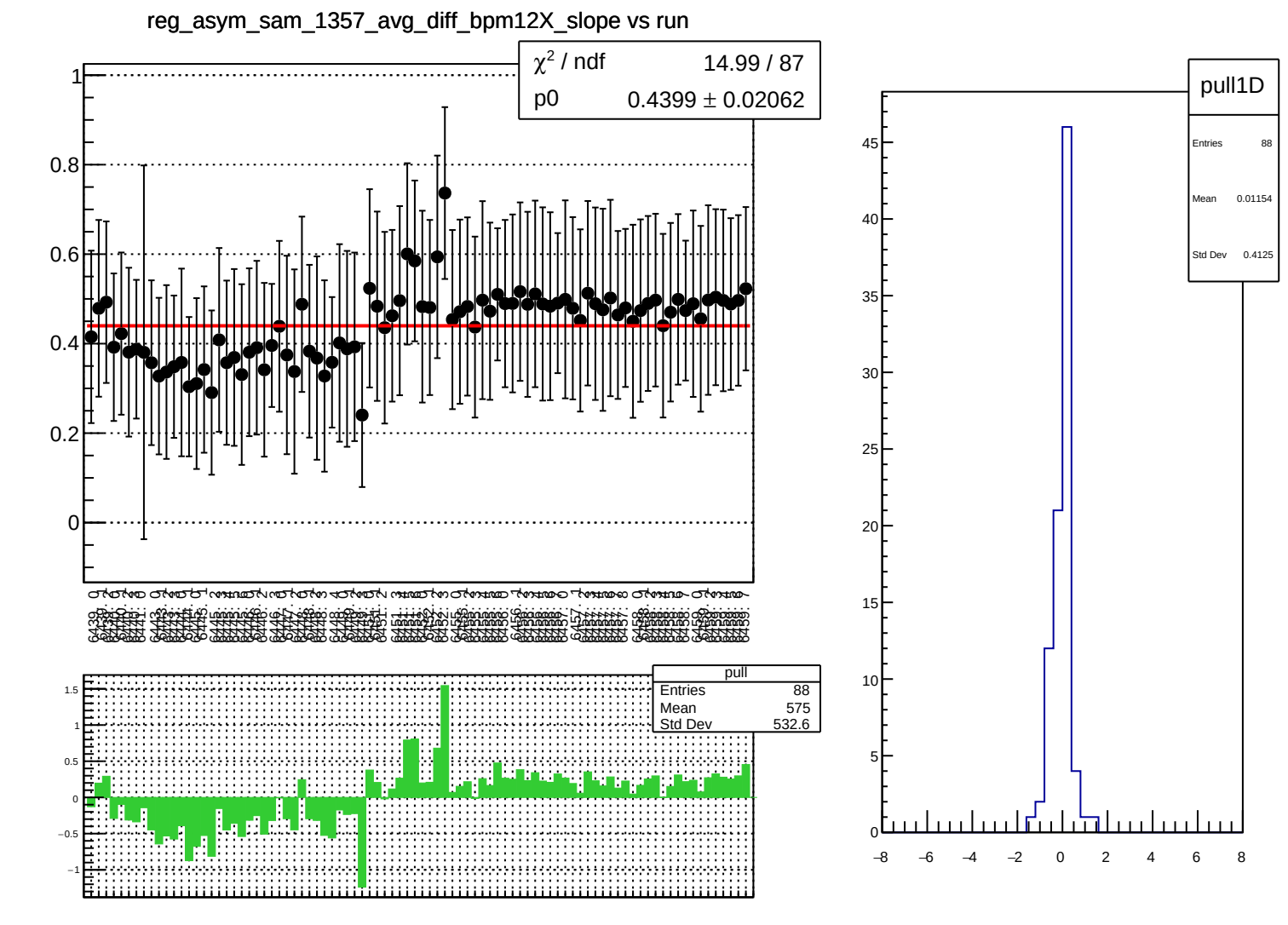

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.55 / 87
p0 1.08 ± 0.4959
pull
Entries 88
Mean 801.2
Std Dev 768.3

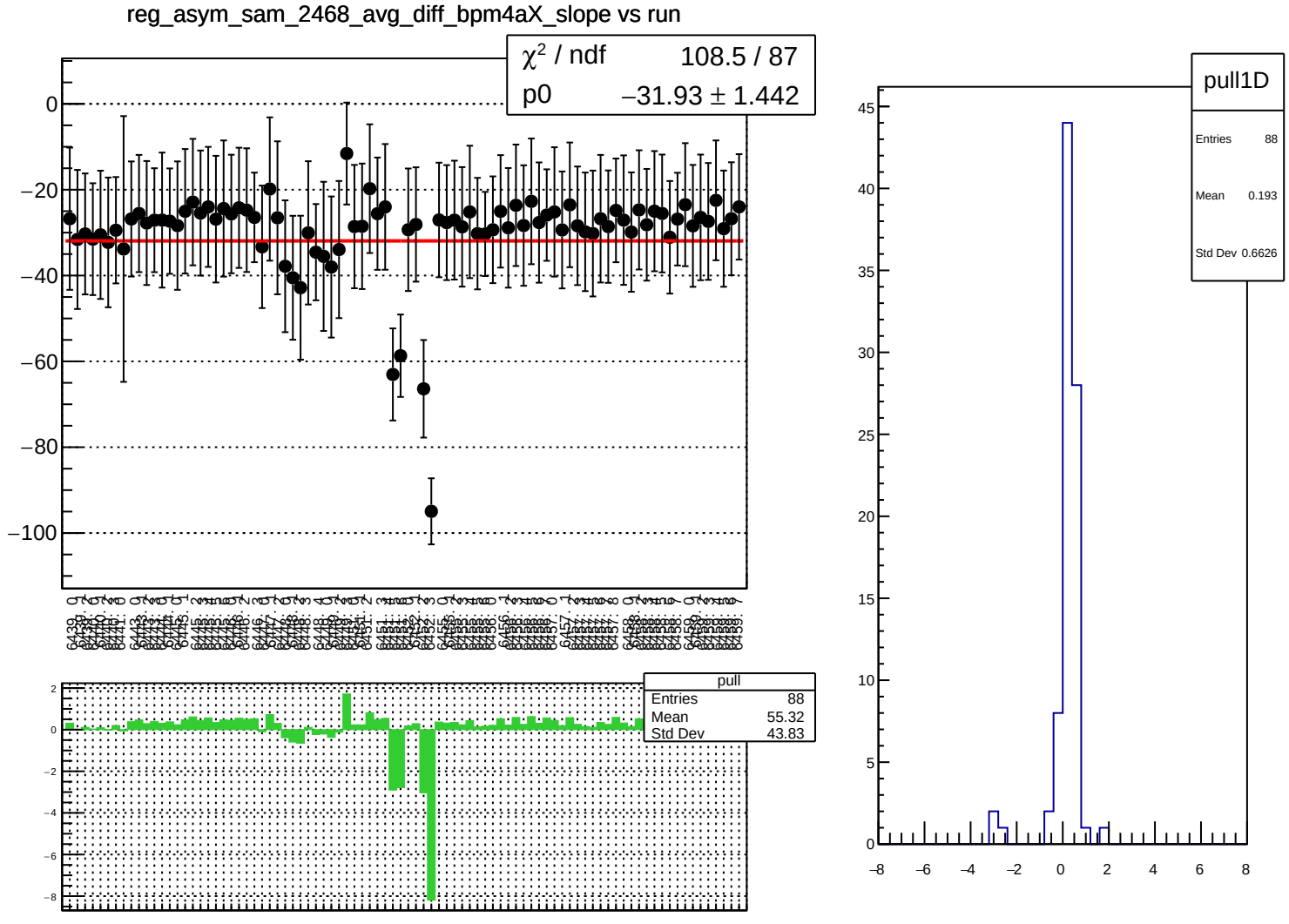

pull1D
Entries 88
Mean 0.00706
Std Dev 0.6871

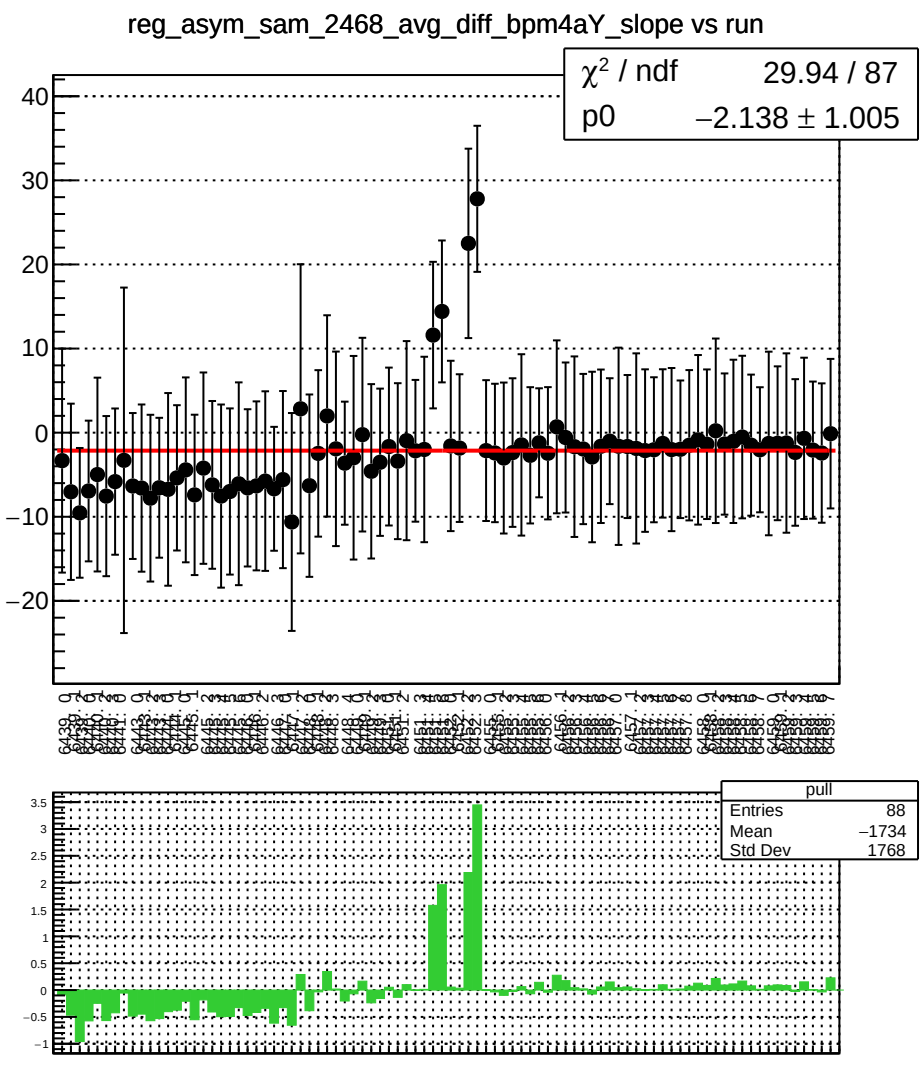

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 95.99 / 87
p0 −32.97 ± 0.7724
pull
Entries 88
Mean 61.5
Std Dev 44.75
pull1D
Entries 88
Mean −0.0859
Std Dev 1.041

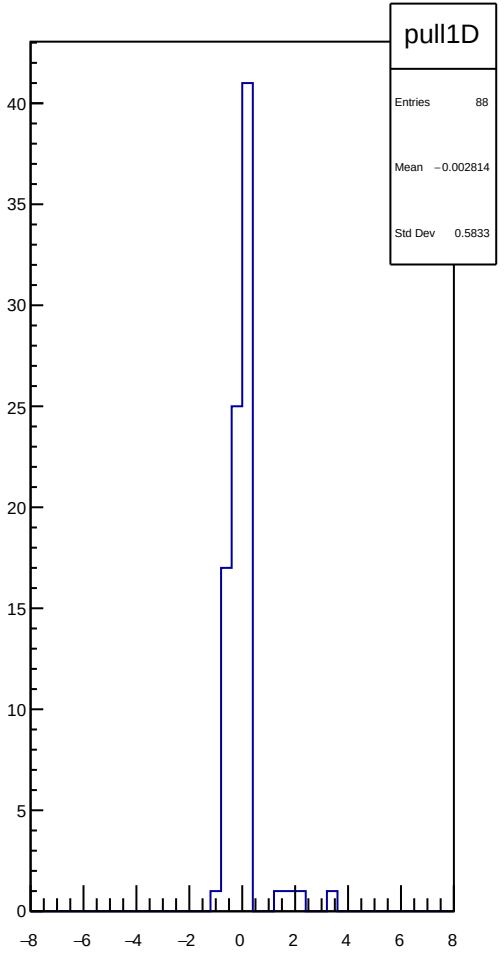

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.17 / 87
p0 31.74 ± 0.4986
pull
Entries 88
Mean −2175
Std Dev 2211

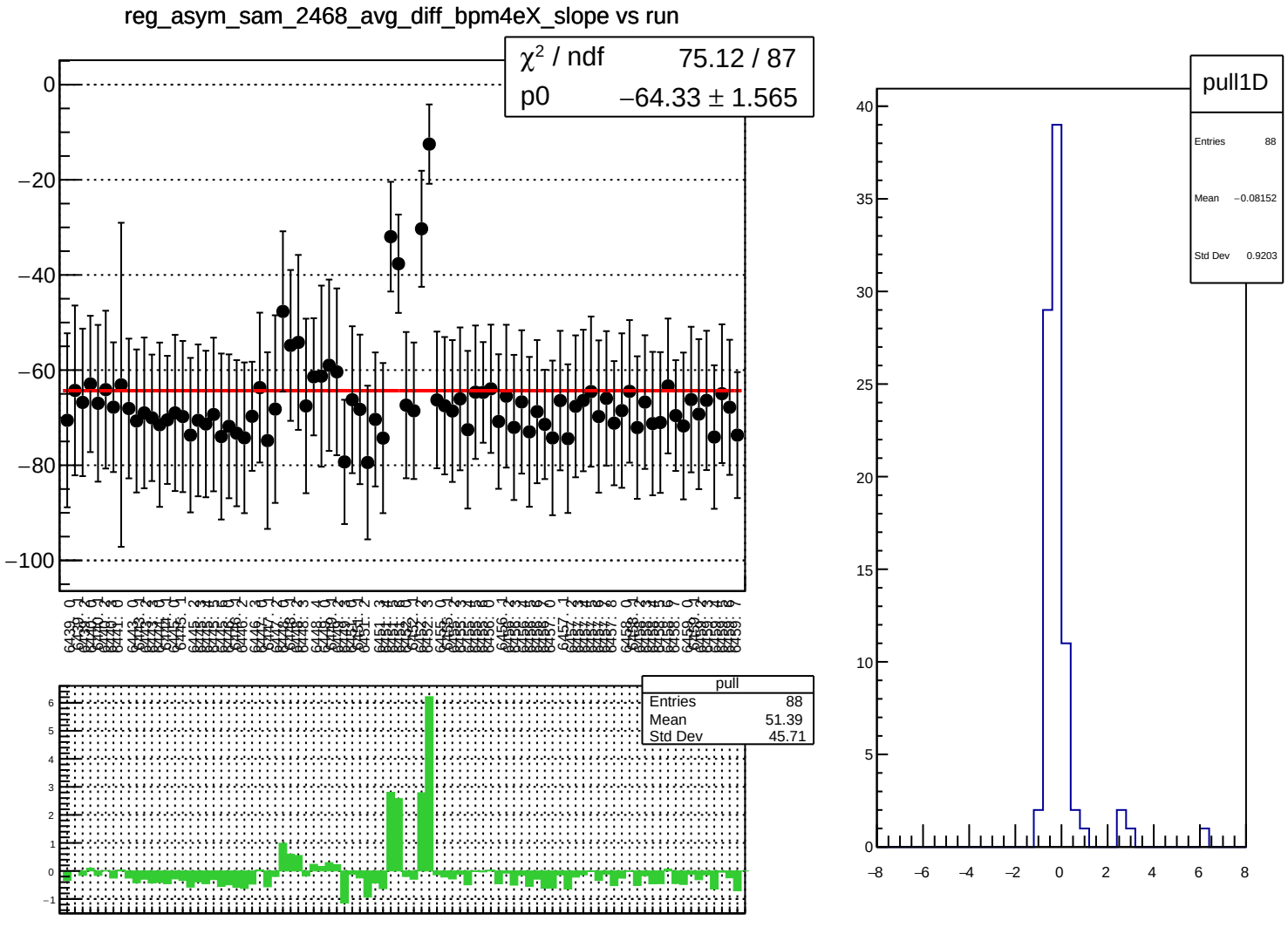

pull1D
Entries 88
Mean 0.003085
Std Dev 0.6671

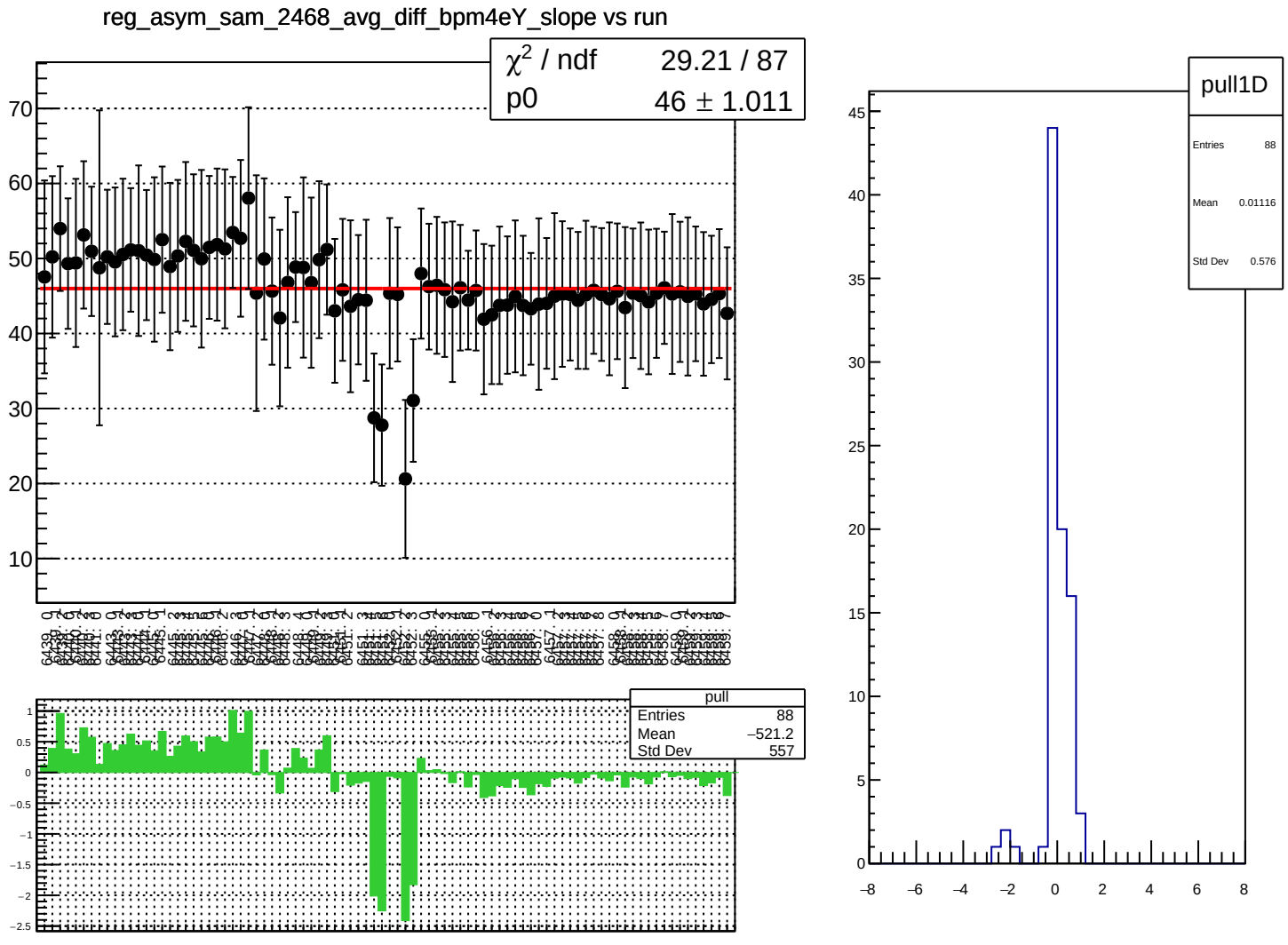

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 14.99 / 87
p0 0.4399 ± 0.02062
pull
Entries 88
Mean 575
Std Dev 532.6
pull1D
Entries 88
Mean 0.01154
Std Dev 0.4125

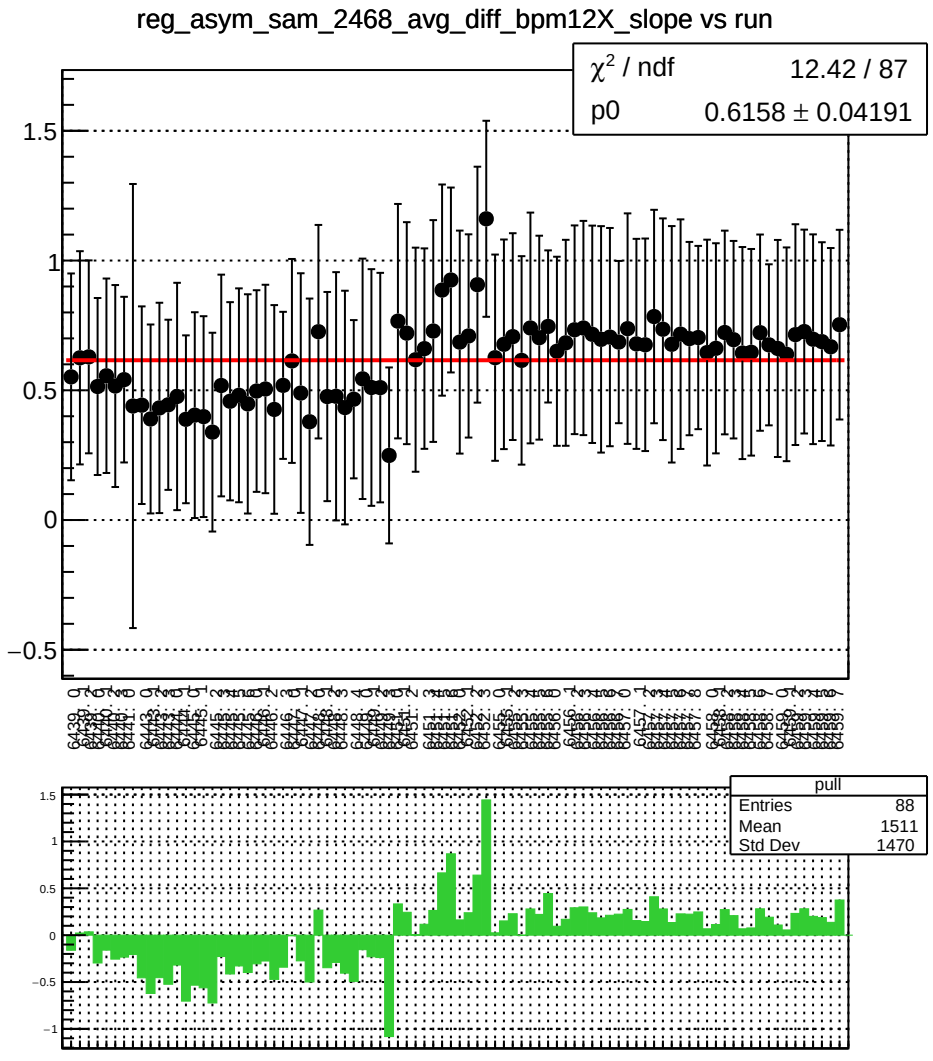

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 108.5 / 87
p0 −31.93 ± 1.442
pull
Entries 88
Mean 55.32
Std Dev 43.83
pull1D
Entries 88
Mean 0.193
Std Dev 0.6626

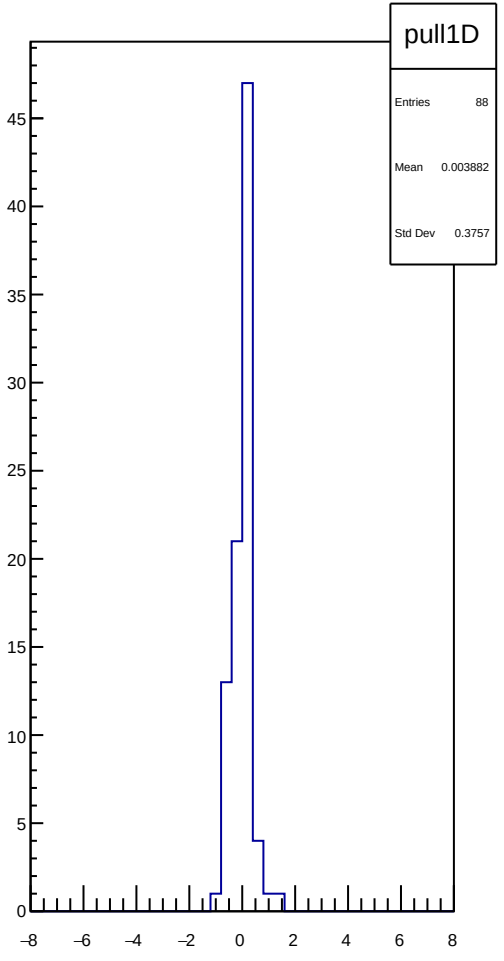

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.94 / 87
p0 −2.138 ± 1.005
pull
Entries 88
Mean −1734
Std Dev 1768

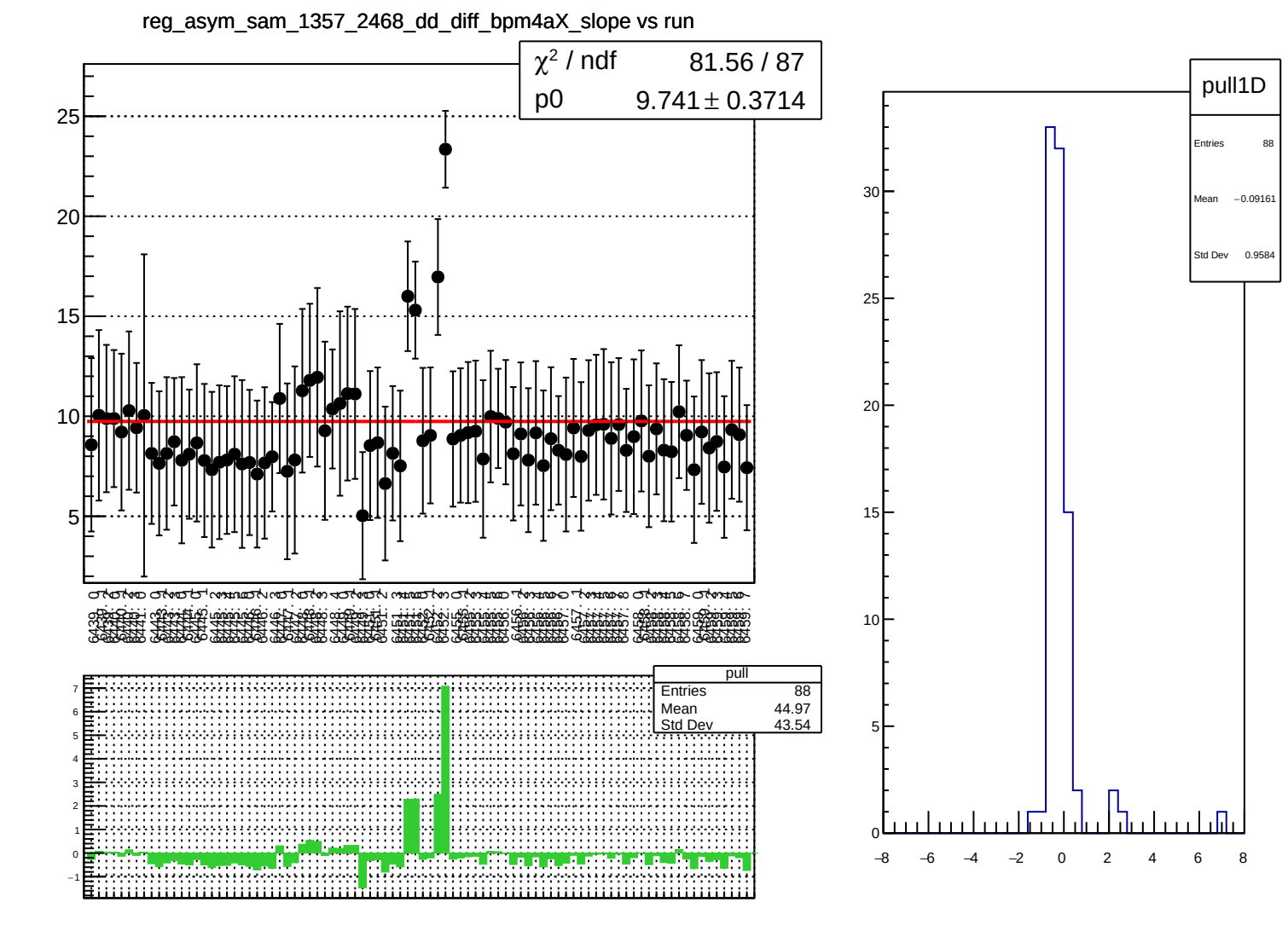

pull1D
Entries 88
Mean −0.002814
Std Dev 0.5833

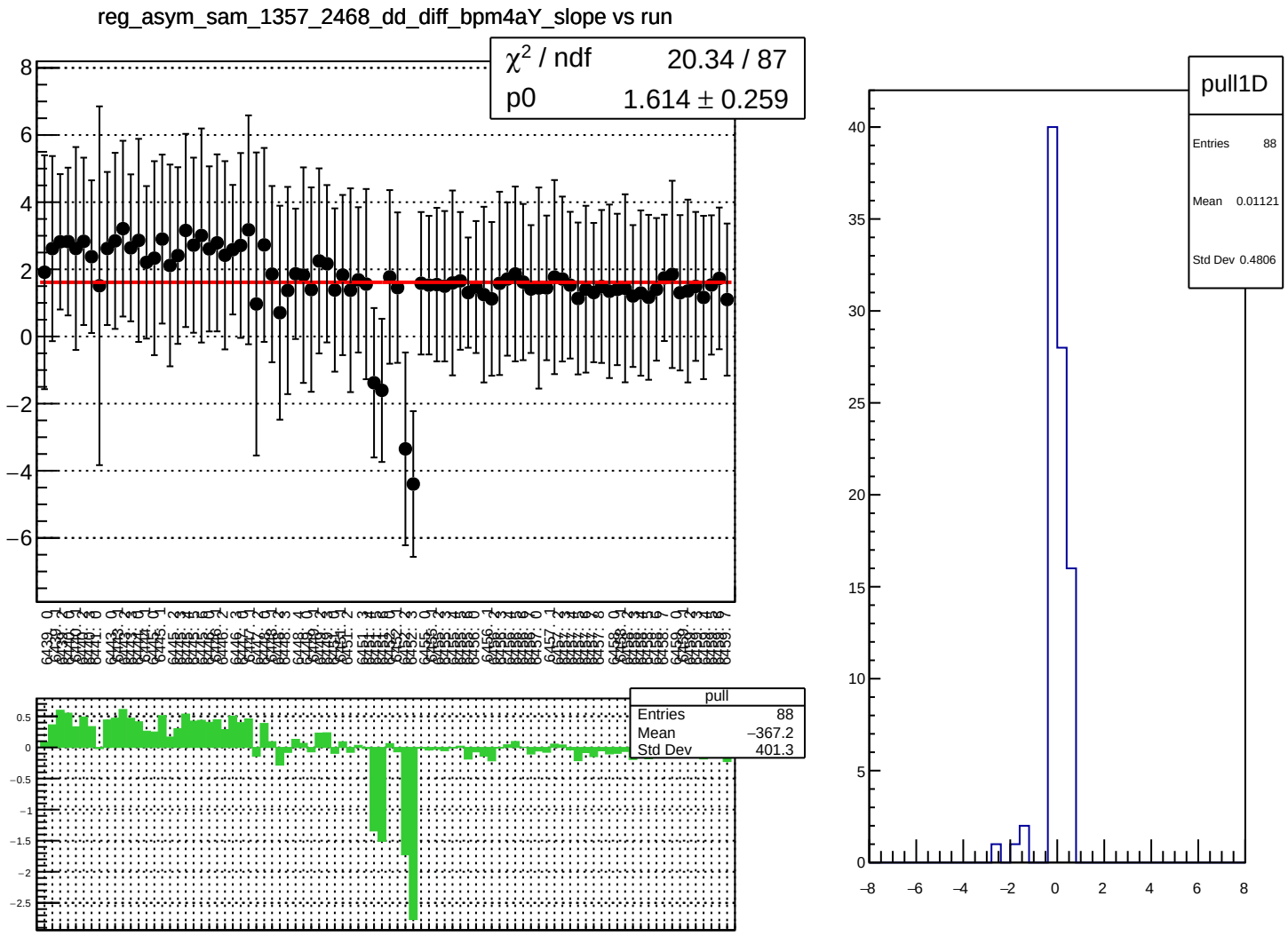

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 75.12 / 87
p0 −64.33 ± 1.565
pull
Entries 88
Mean 51.39
Std Dev 45.71
pull1D
Entries 88
Mean −0.08152
Std Dev 0.9203

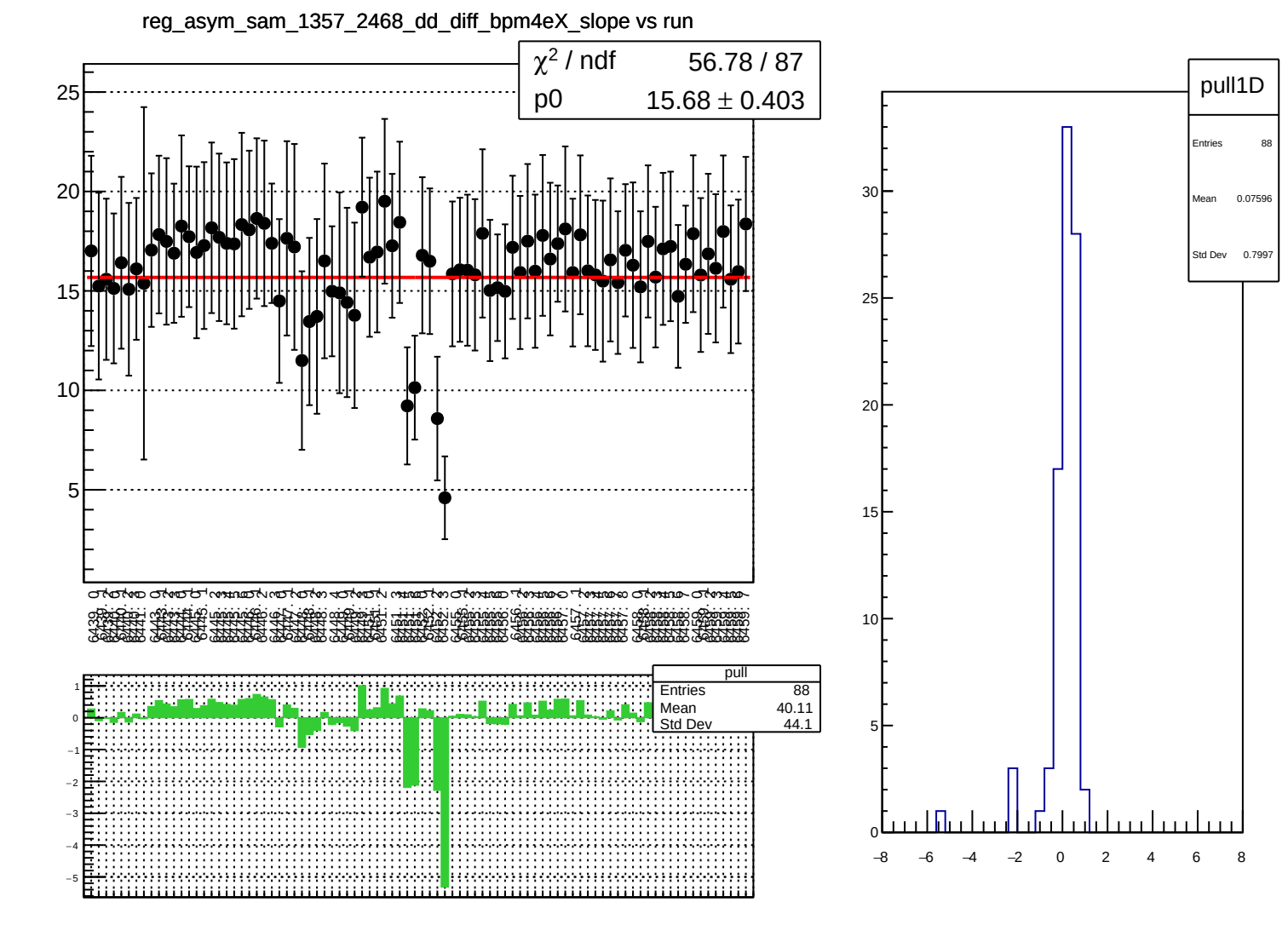

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.21 / 87
p0 46 ± 1.011
pull
Entries 88
Mean −521.2
Std Dev 557
pull1D
Entries 88
Mean 0.01116
Std Dev 0.576

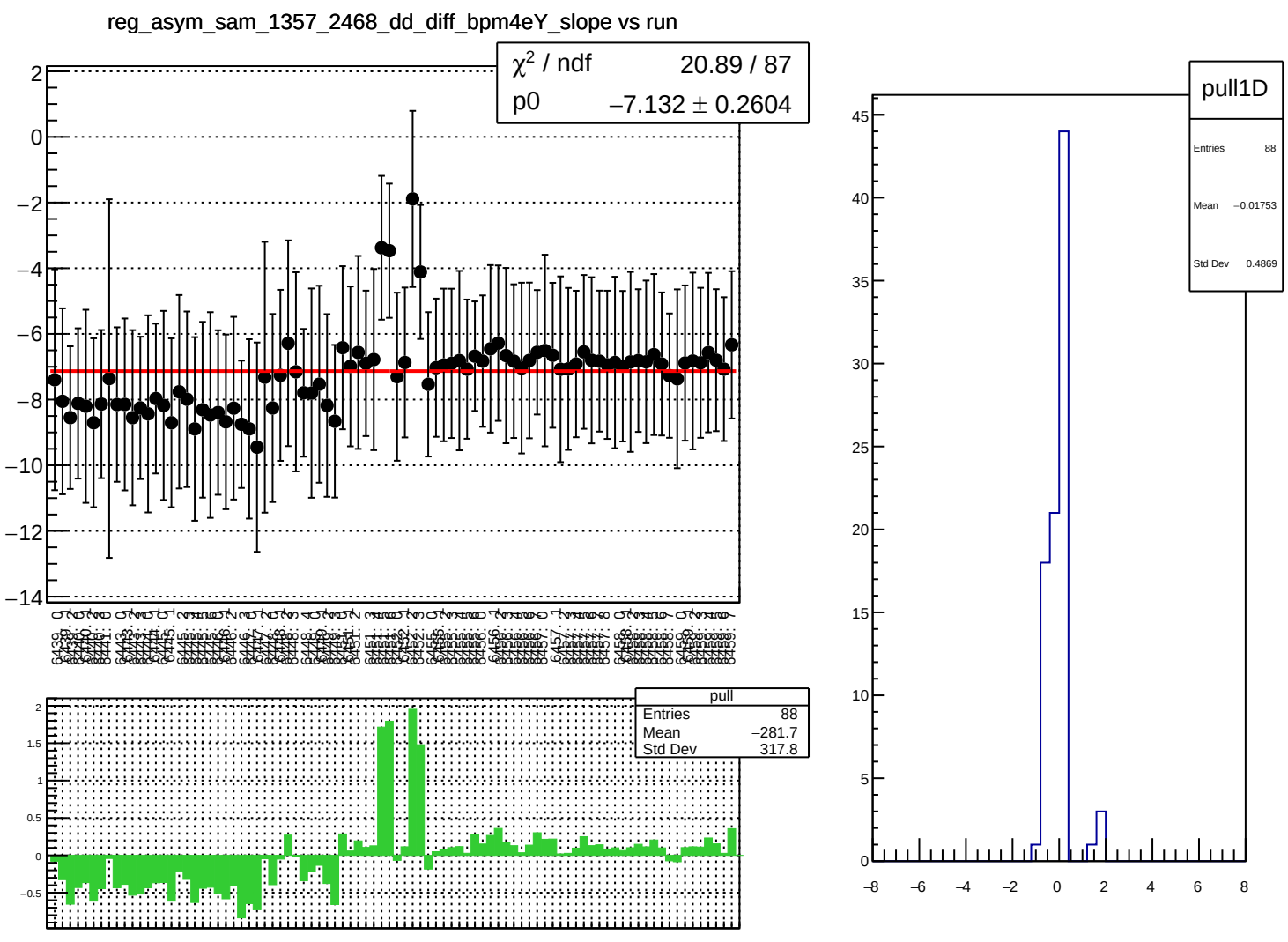

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 12.42 / 87
p0 0.6158 ± 0.04191
pull
Entries 88
Mean 1511
Std Dev 1470

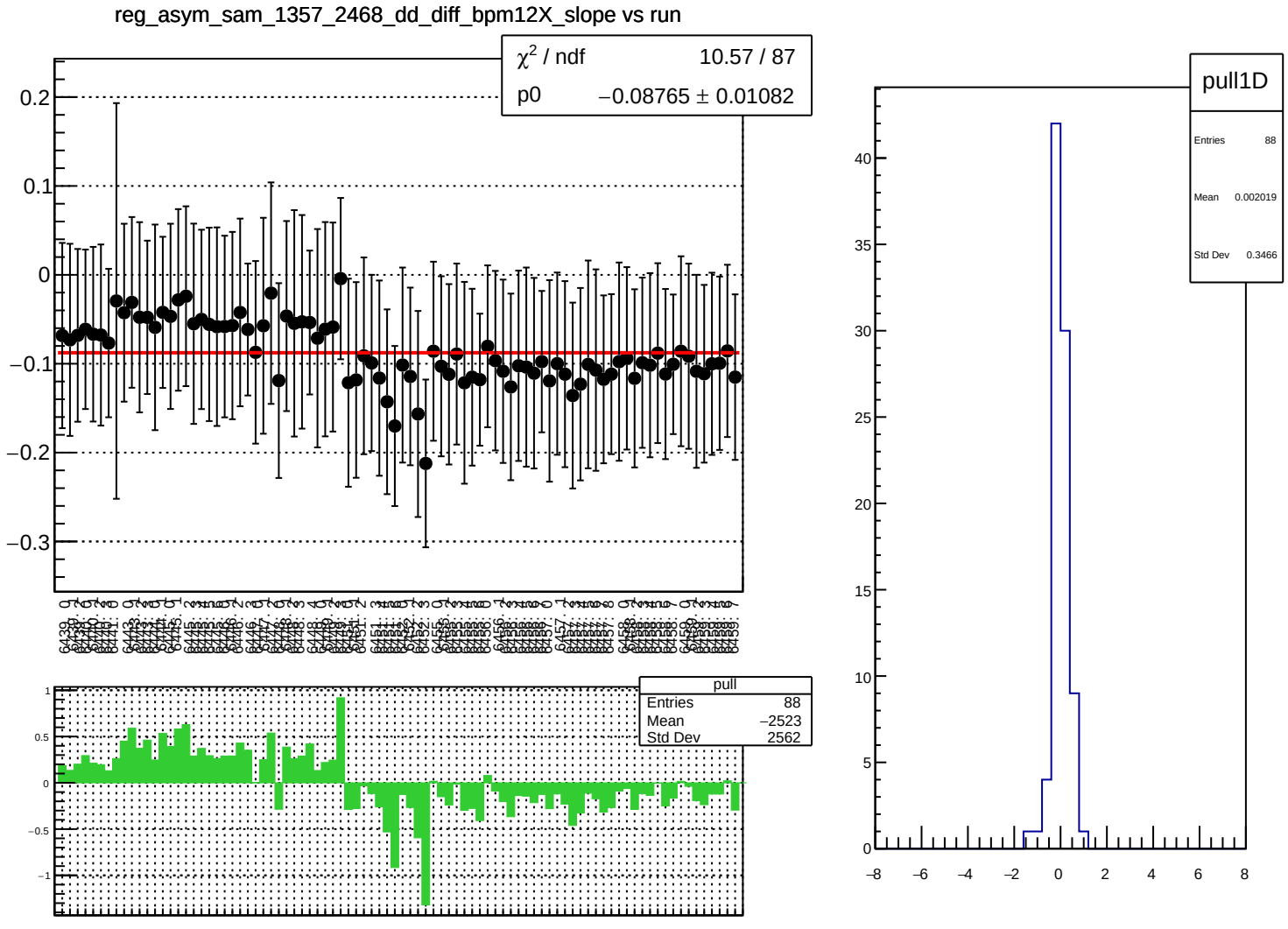

pull1D
Entries 88
Mean 0.003882
Std Dev 0.3757

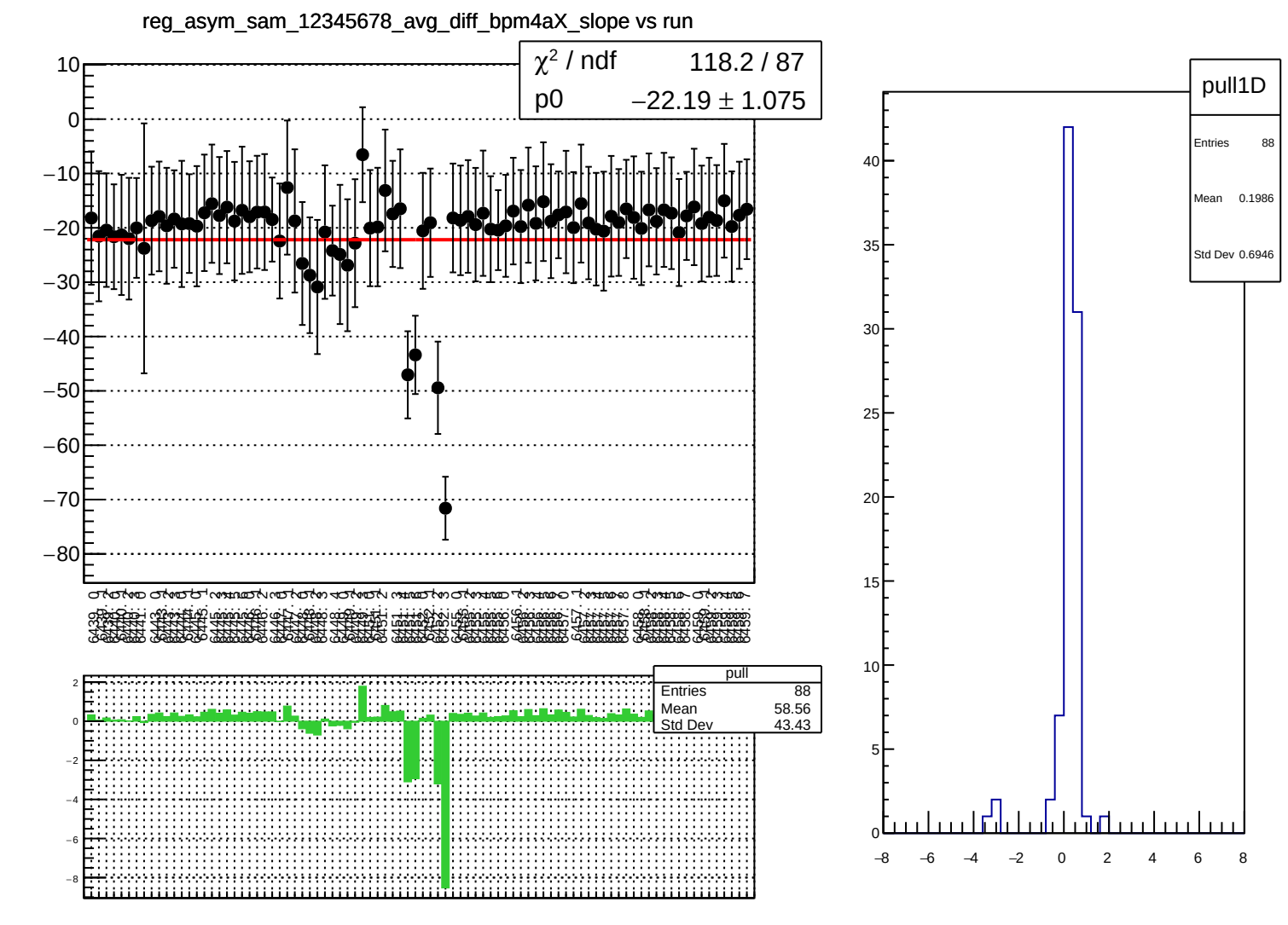

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ² / ndf 81.56 / 87
p0 9.741 ± 0.3714
pull
Entries 88
Mean 44.97
Std Dev 43.54
pull1D
Entries 88
Mean −0.09161
Std Dev 0.9584

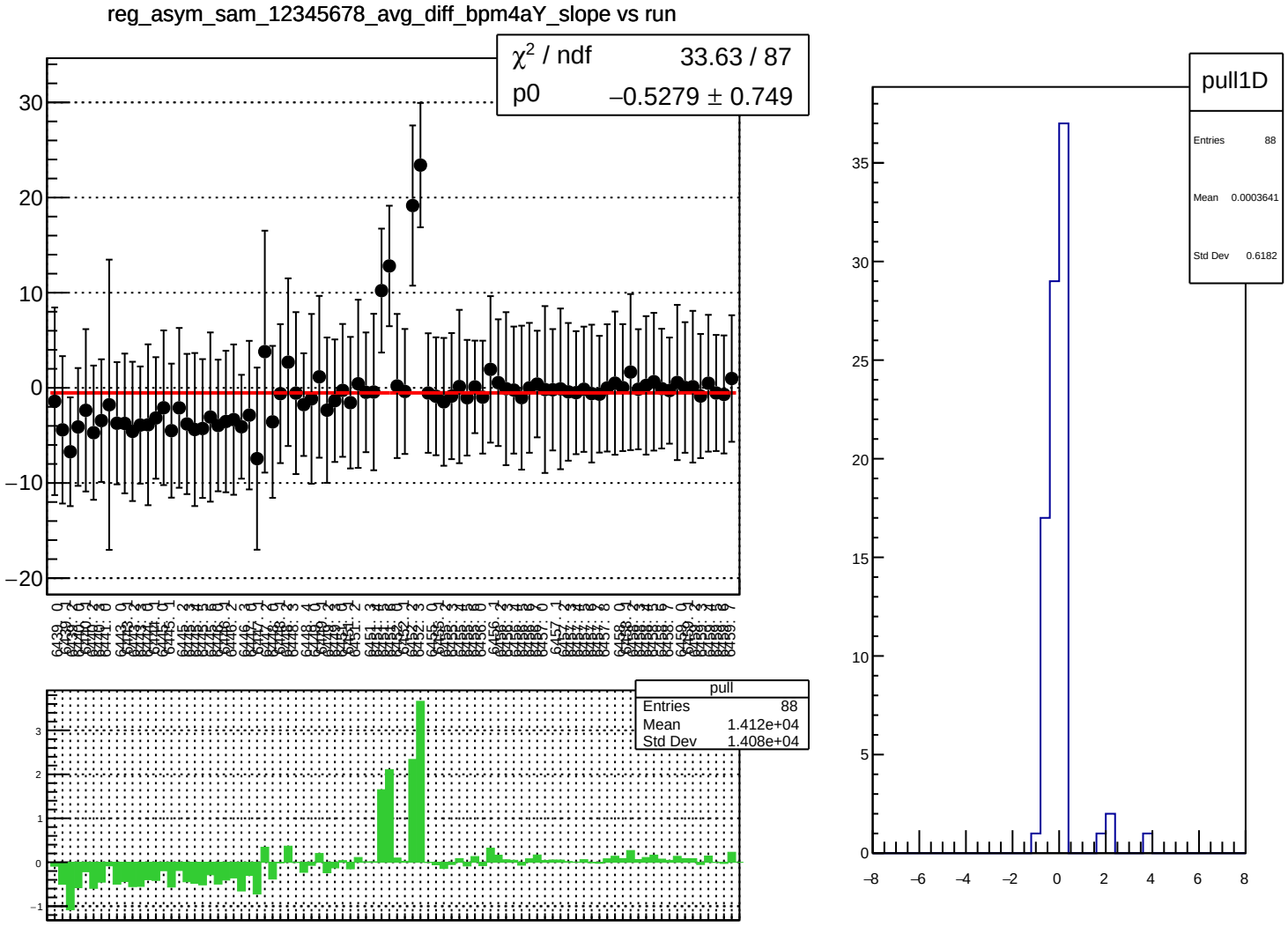

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.34 / 87
p0 1.614 ± 0.259
pull
Entries 88
Mean −367.2
Std Dev 401.3
pull1D
Entries 88
Mean 0.01121
Std Dev 0.4806

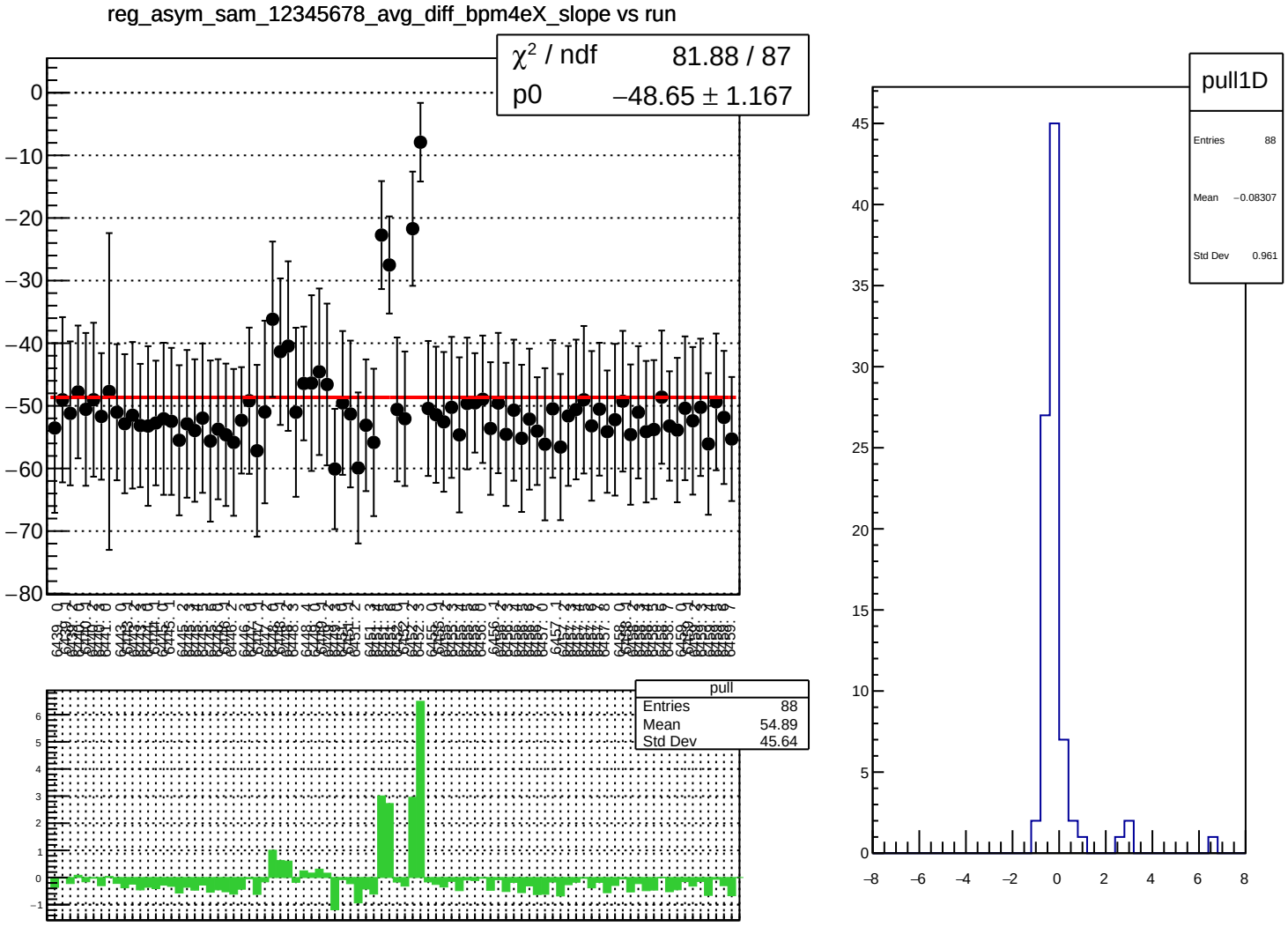

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 56.78 / 87
p0 15.68 ± 0.403
pull
Entries 88
Mean 40.11
Std Dev 44.1
pull1D
Entries 88
Mean 0.07596
Std Dev 0.7997

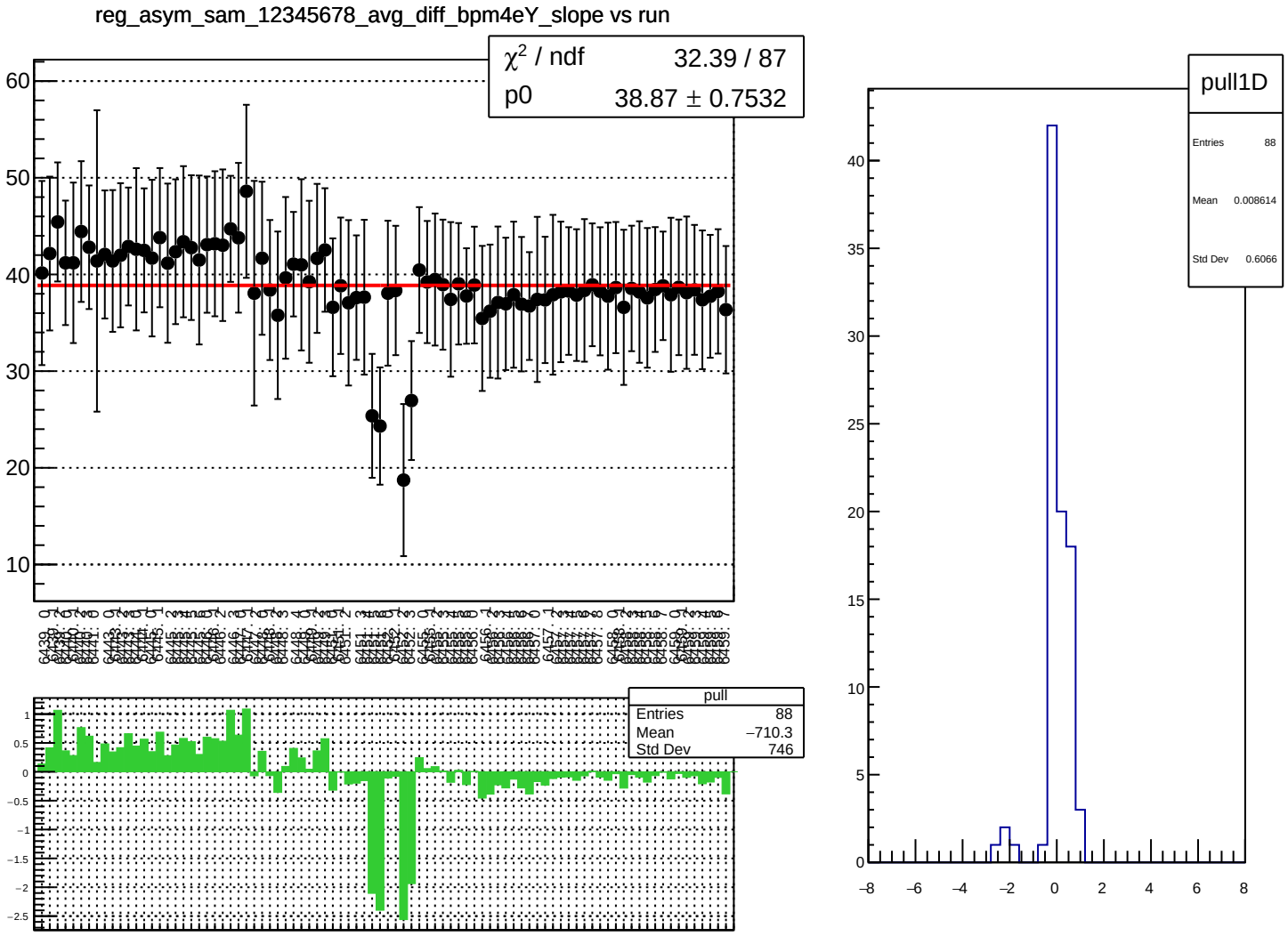

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.89 / 87
p0 −7.132 ± 0.2604
pull
Entries 88
Mean −281.7
Std Dev 317.8
pull1D
Entries 88
Mean −0.01753
Std Dev 0.4869

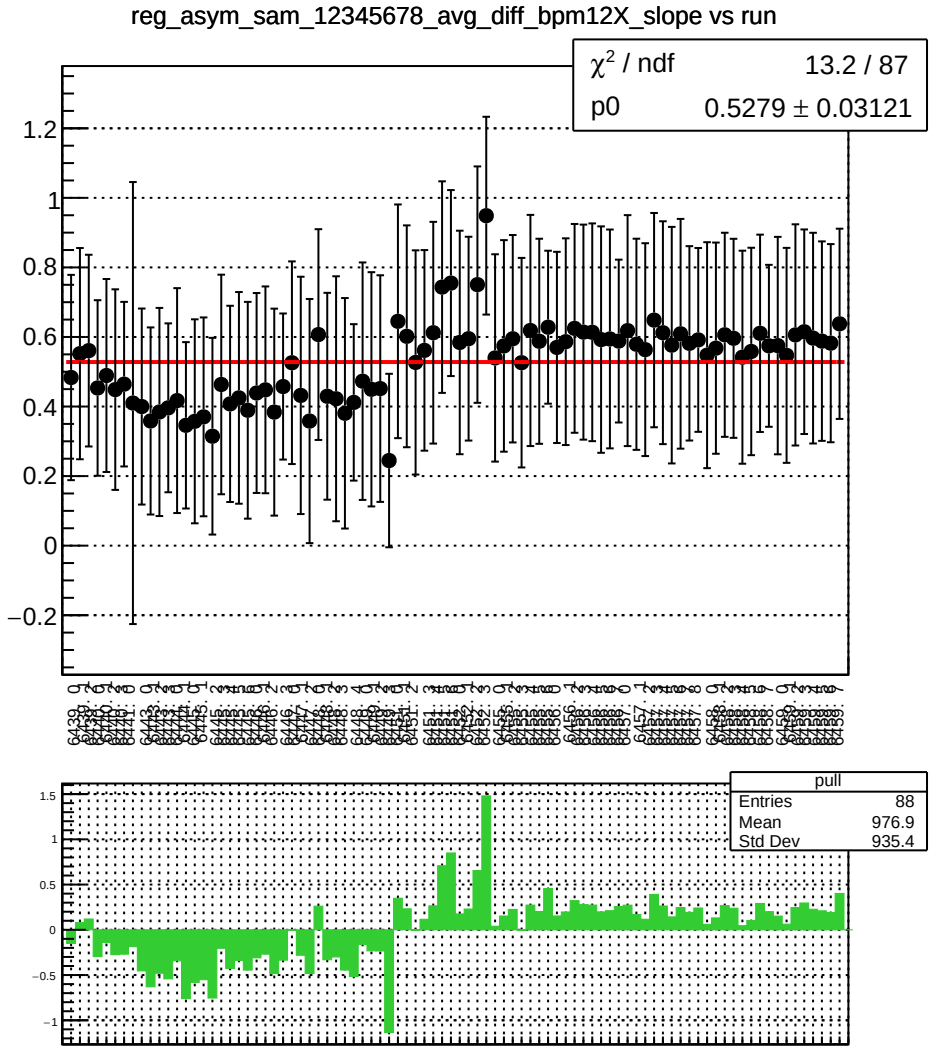

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 10.57 / 87
p0 −0.08765 ± 0.01082
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 88
Mean −2523
Std Dev 2562
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.002019
Std Dev 0.3466
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

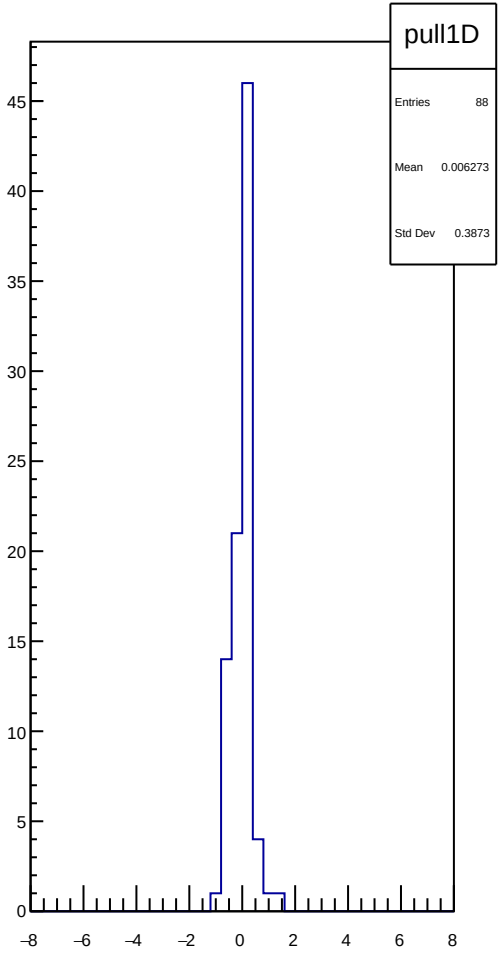

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 118.2 / 87
p0 −22.19 ± 1.075
pull
Entries 88
Mean 58.56
Std Dev 43.43
pull1D
Entries 88
Mean 0.1986
Std Dev 0.6946

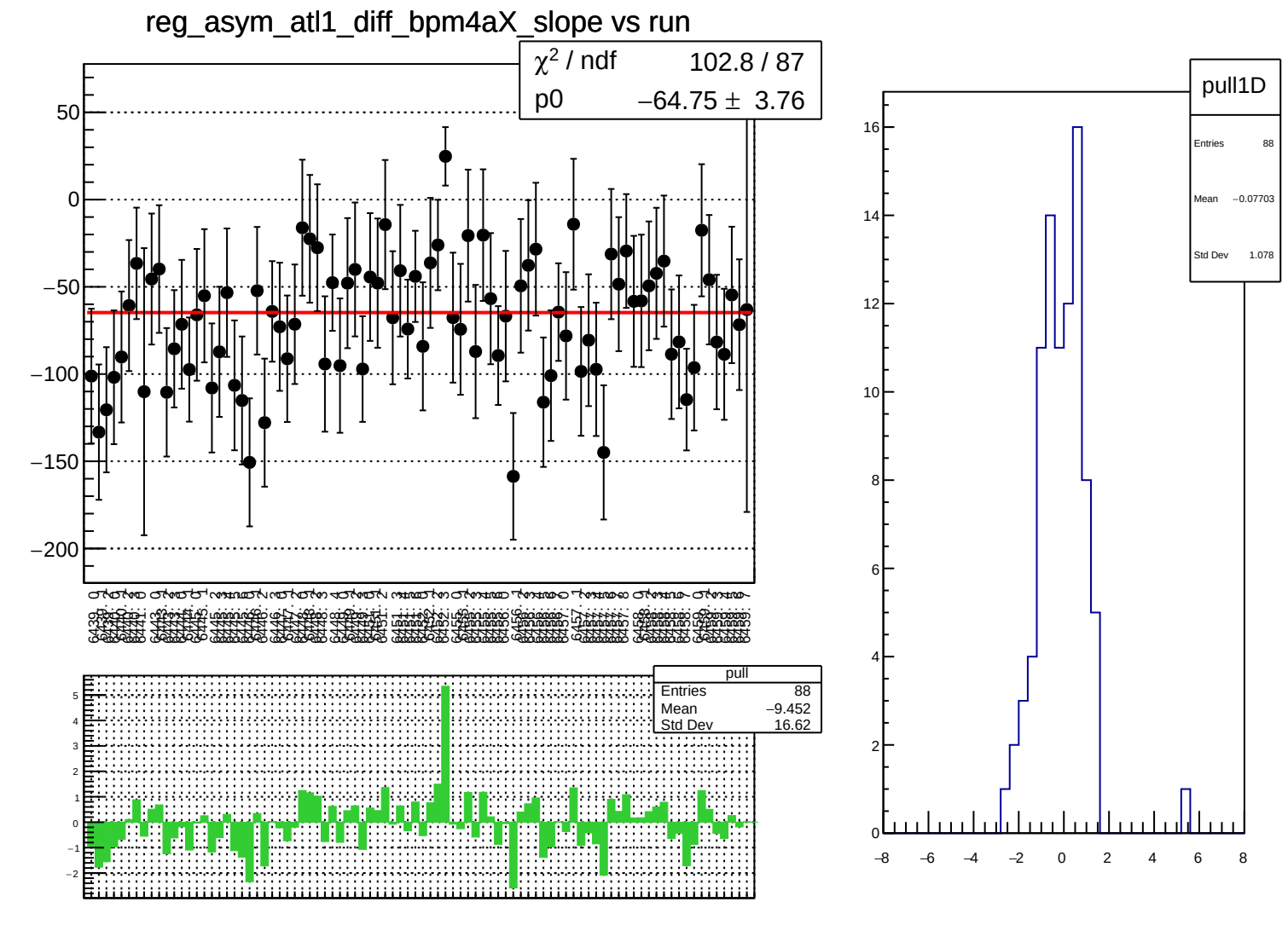

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.63 / 87
p0 −0.5279 ± 0.749
pull
Entries 88
Mean 1.412e+04
Std Dev 1.408e+04
pull1D
Entries 88
Mean 0.0003641
Std Dev 0.6182

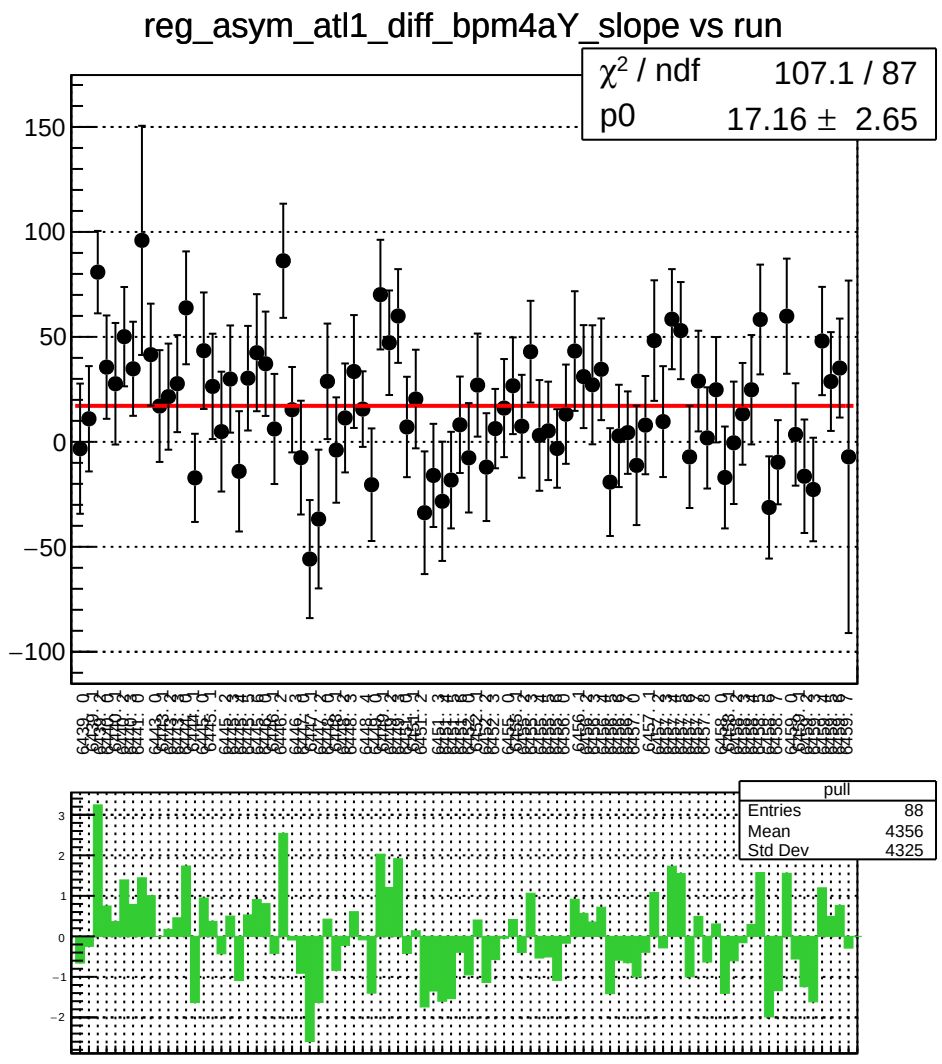

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 81.88 / 87
p0 −48.65 ± 1.167
pull
Entries 88
Mean 54.89
Std Dev 45.64
pull1D
Entries 88
Mean −0.08307
Std Dev 0.961

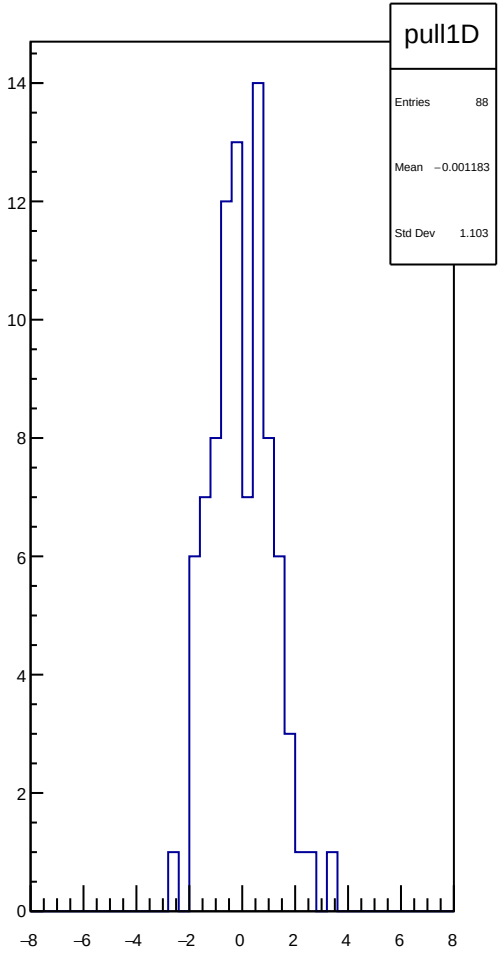

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.39 / 87
p0 38.87 ± 0.7532
pull
Entries 88
Mean −710.3
Std Dev 746
pull1D
Entries 88
Mean 0.008614
Std Dev 0.6066

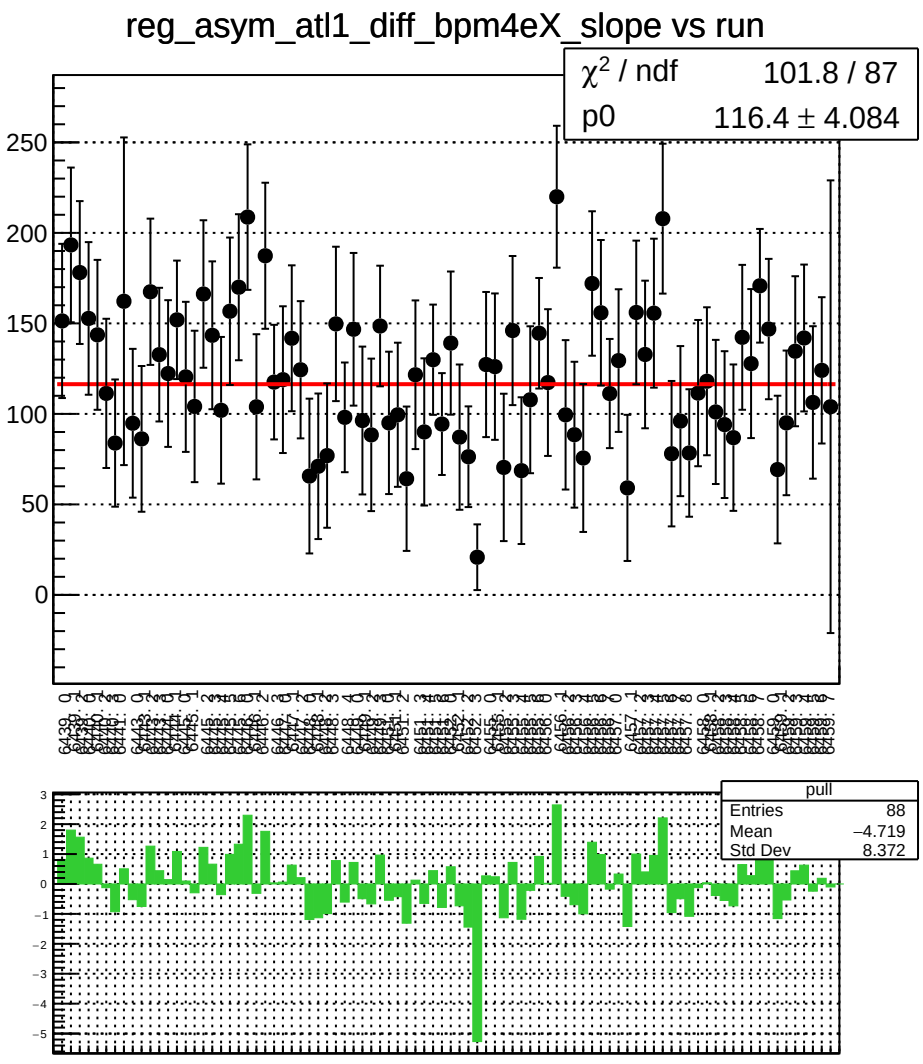

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 13.2 / 87
p0 0.5279 ± 0.03121
pull
Entries 88
Mean 976.9
Std Dev 935.4

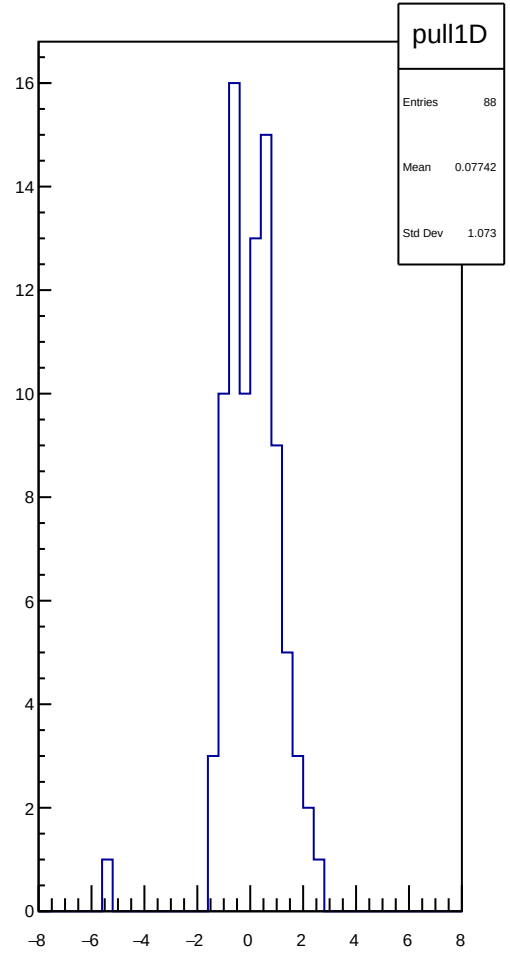

pull1D
Entries 88
Mean 0.006273
Std Dev 0.3873

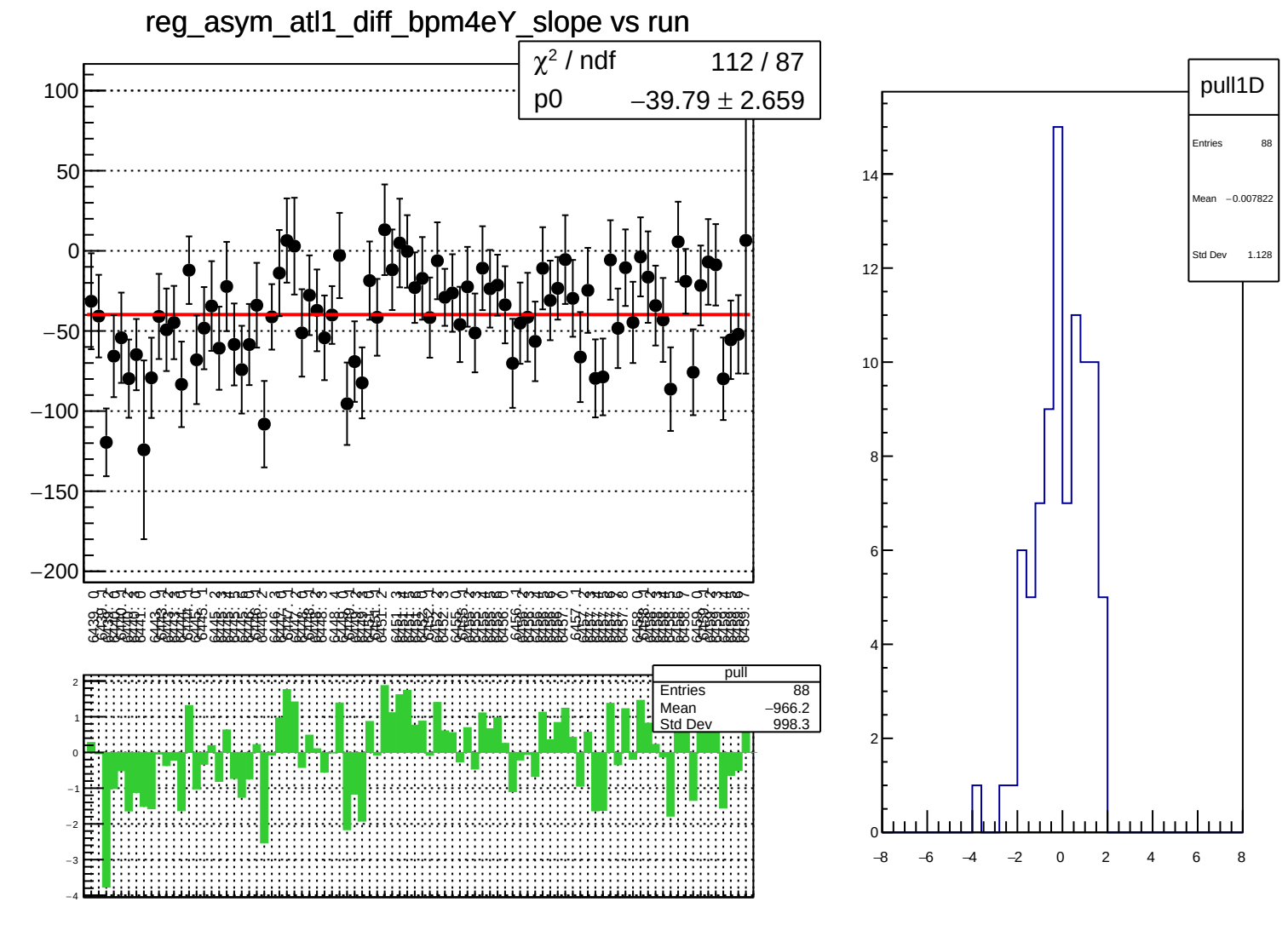

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 102.8 / 87
p0 −64.75 ± 3.76
pull
Entries 88
Mean −9.452
Std Dev 16.62
pull1D
Entries 88
Mean −0.07703
Std Dev 1.078

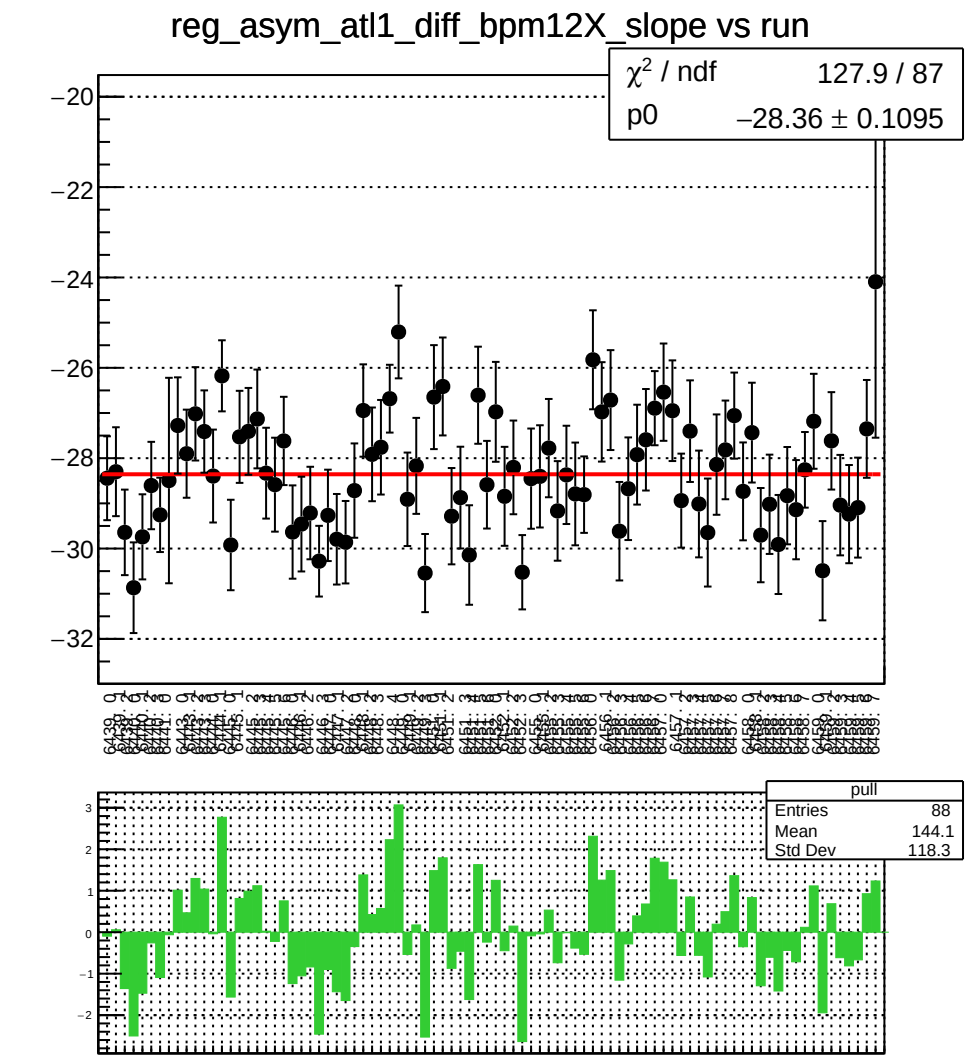

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 107.1 / 87
p0 17.16 ± 2.65
150
100
50
0
−50
−100
pull
Entries 88
Mean 4356
Std Dev 4325
3
2
1
0
−1
−2

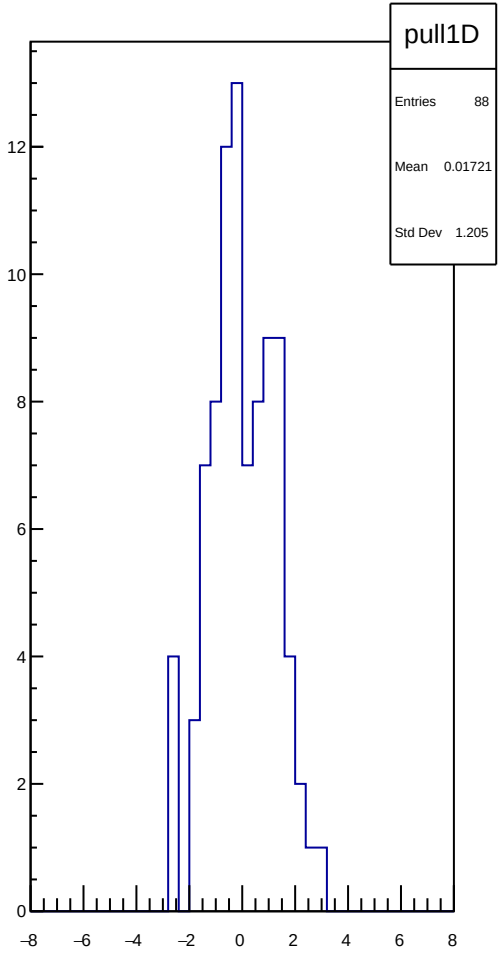

pull1D
Entries 88
Mean −0.001183
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

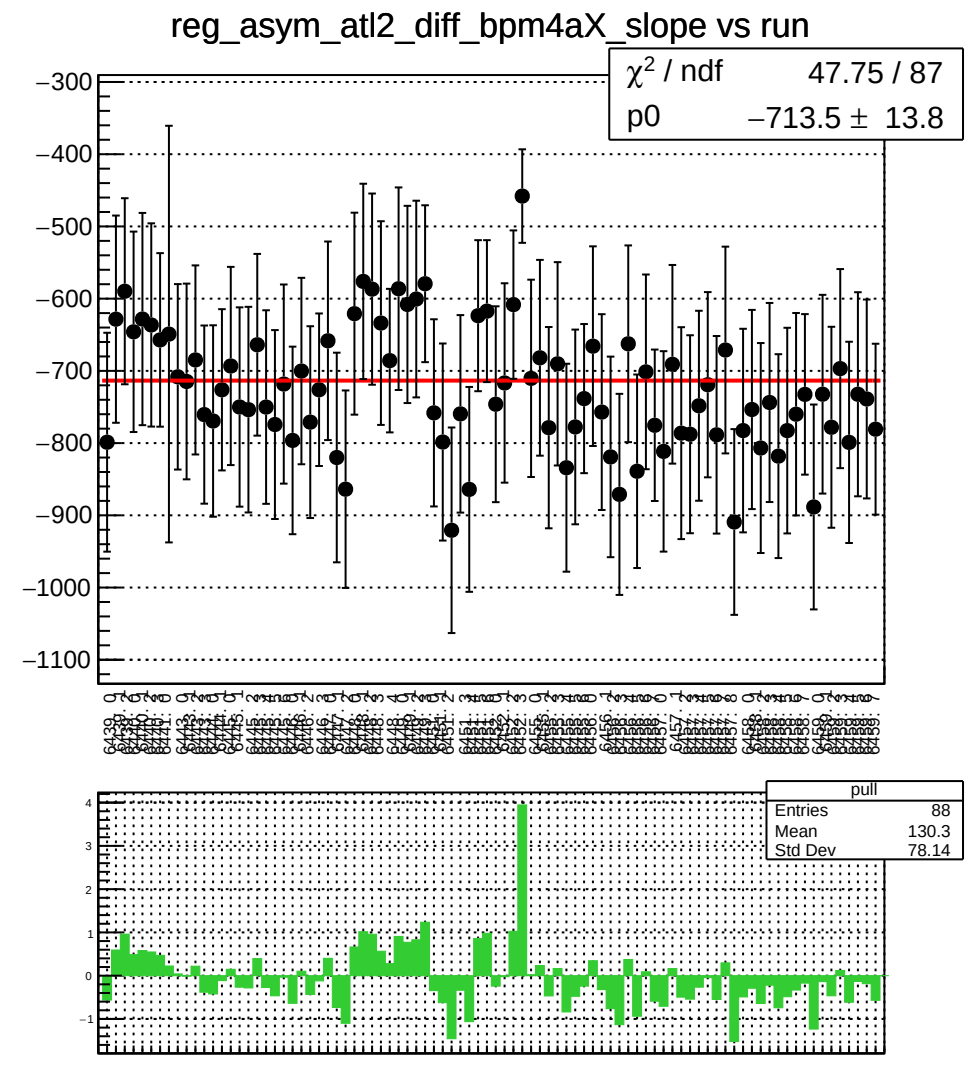

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 101.8 / 87
p0 116.4 ± 4.084
250
200
150
100
50
0
pull
Entries 88
Mean −4.719
Std Dev 8.372
3
2
1
0
−1
−2
−3
−4
−5

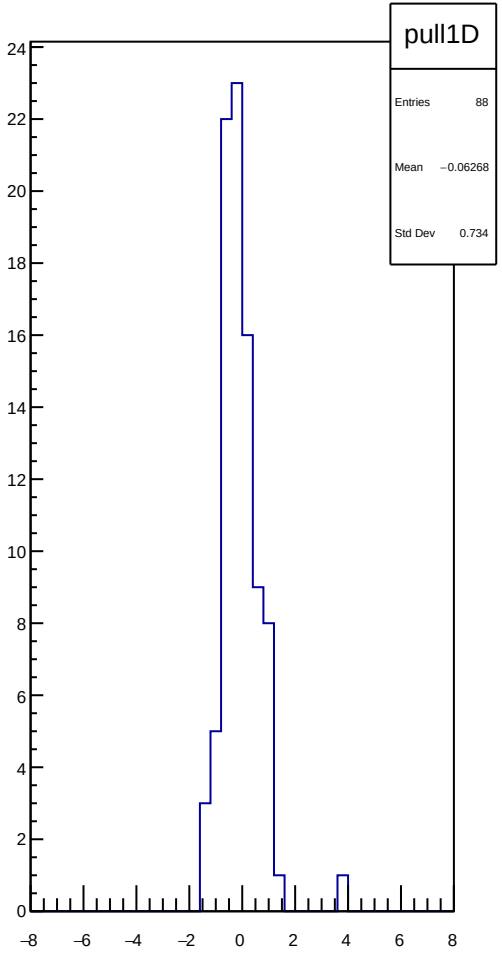

pull1D
Entries 88
Mean 0.07742
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

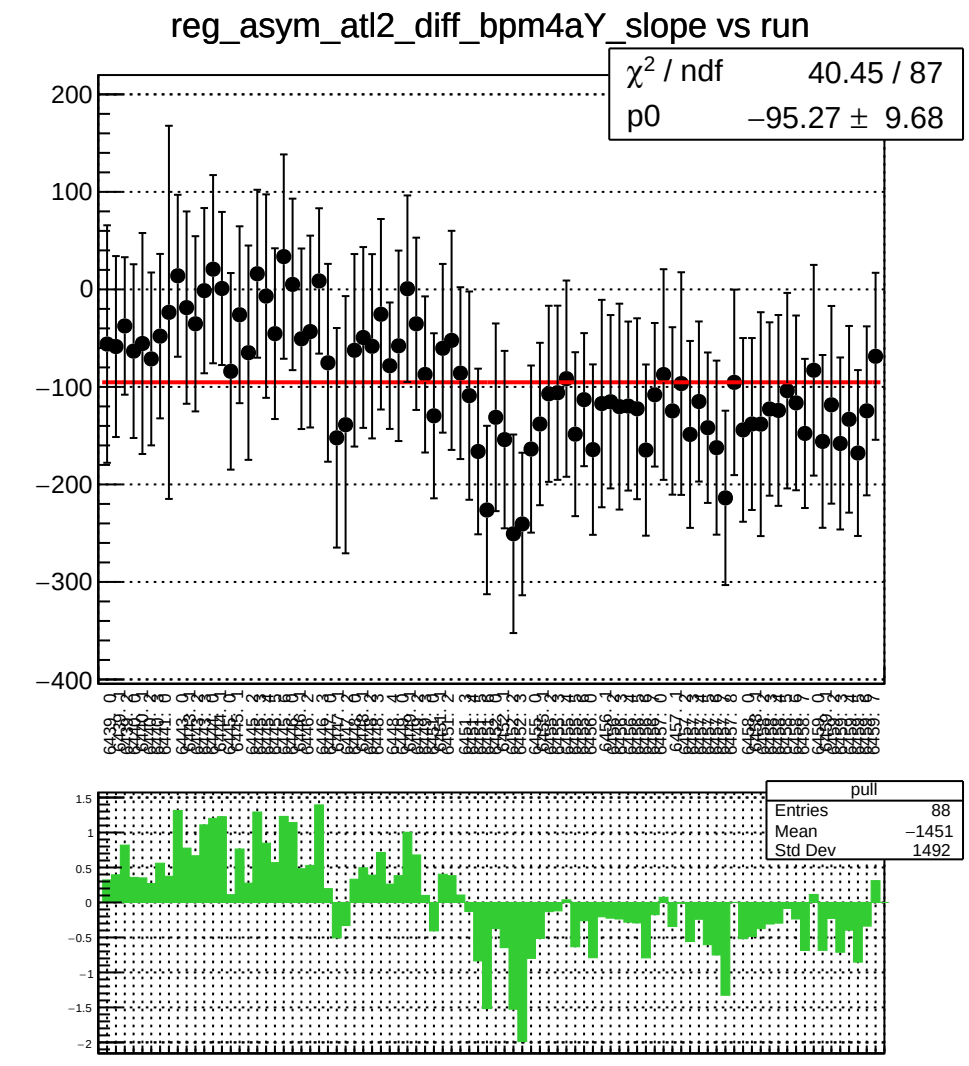

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 112 / 87
p0 −39.79 ± 2.659
pull
Entries 88
Mean −966.2
Std Dev 998.3
pull1D
Entries 88
Mean −0.007822
Std Dev 1.128

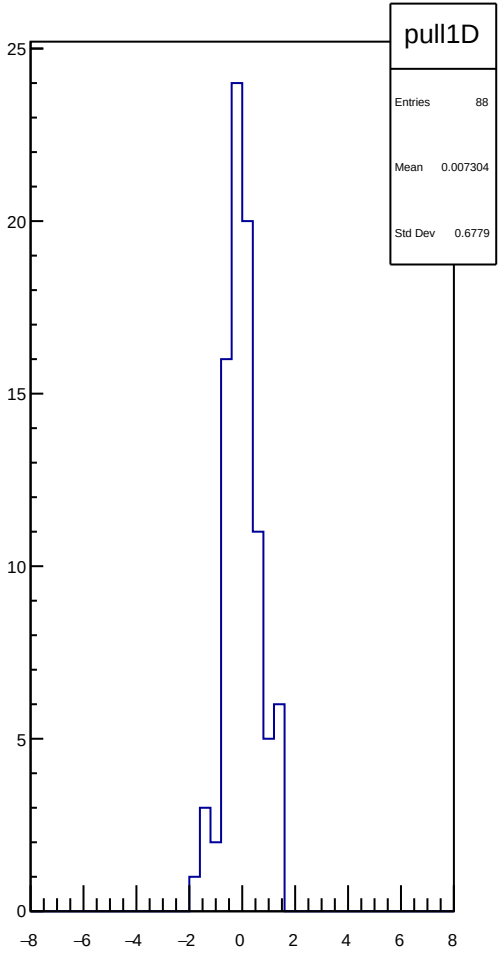

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 127.9 / 87
p0 −28.36 ± 0.1095
pull
Entries 88
Mean 144.1
Std Dev 118.3

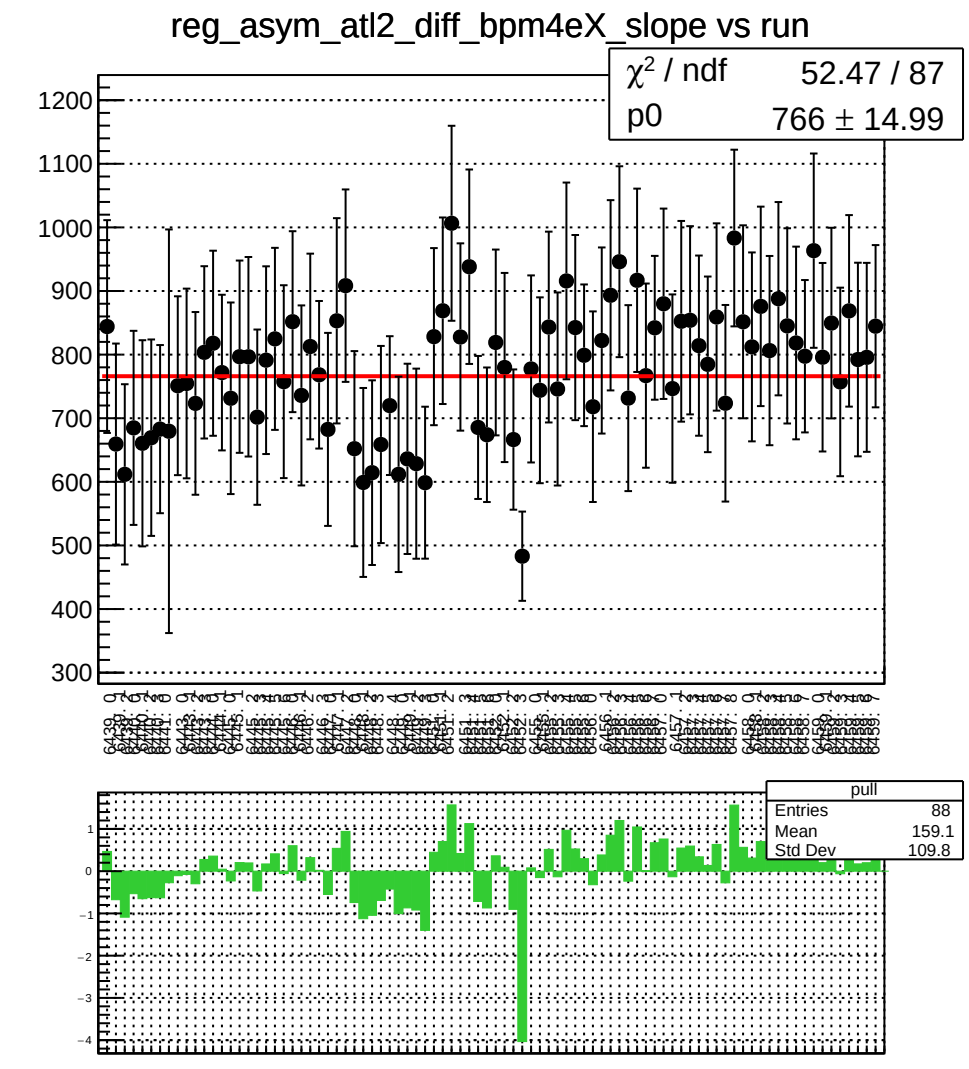

pull1D
Entries 88
Mean 0.01721
Std Dev 1.205

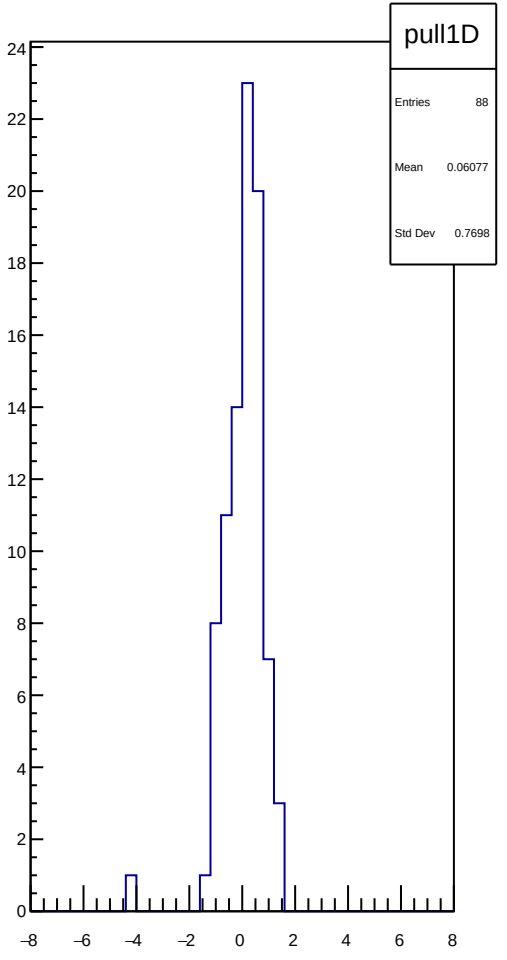

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 47.75 / 87
p0 −713.5 ± 13.8
pull
Entries 88
Mean 130.3
Std Dev 78.14

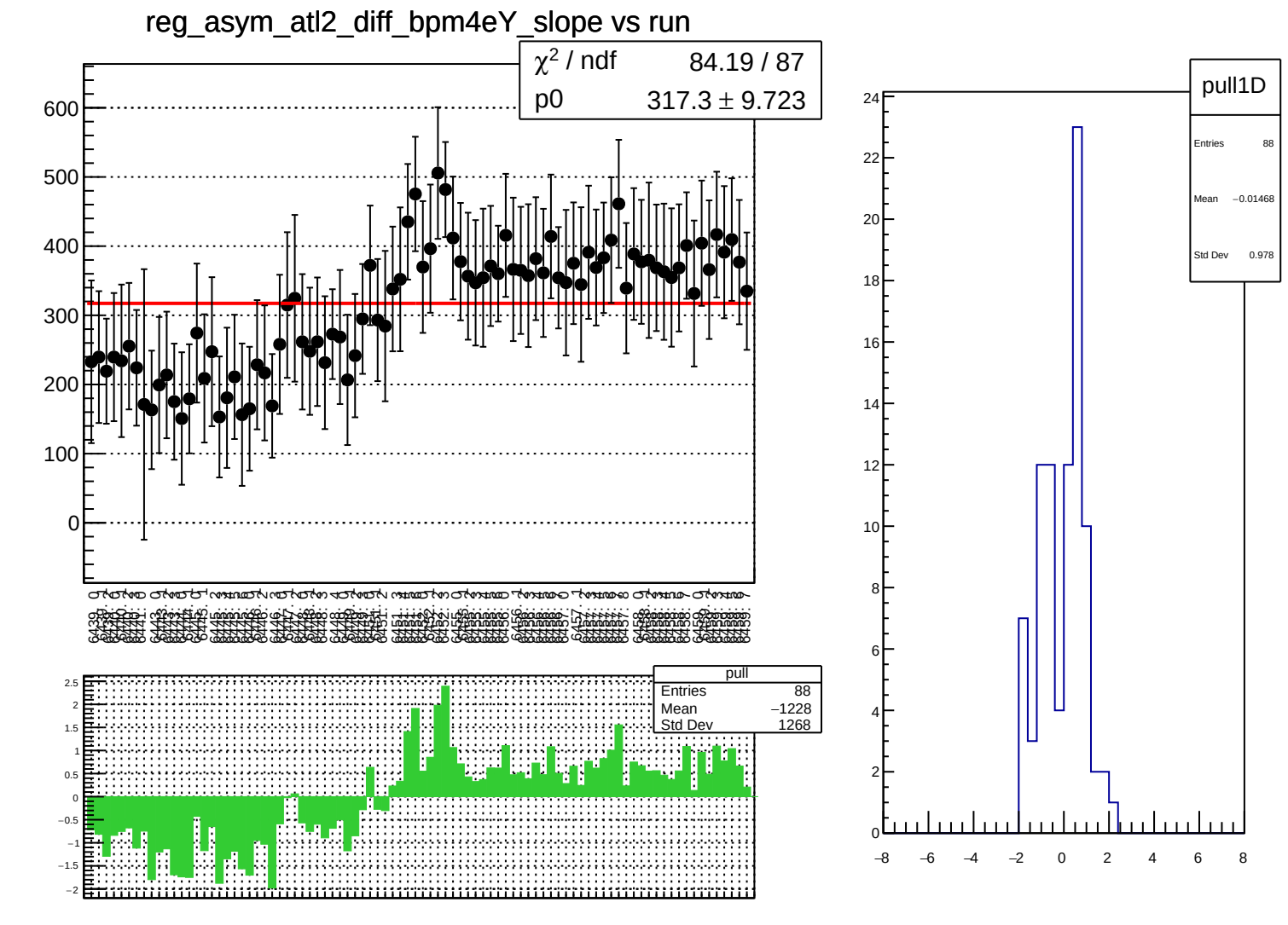

pull1D
Entries 88
Mean −0.06268
Std Dev 0.734

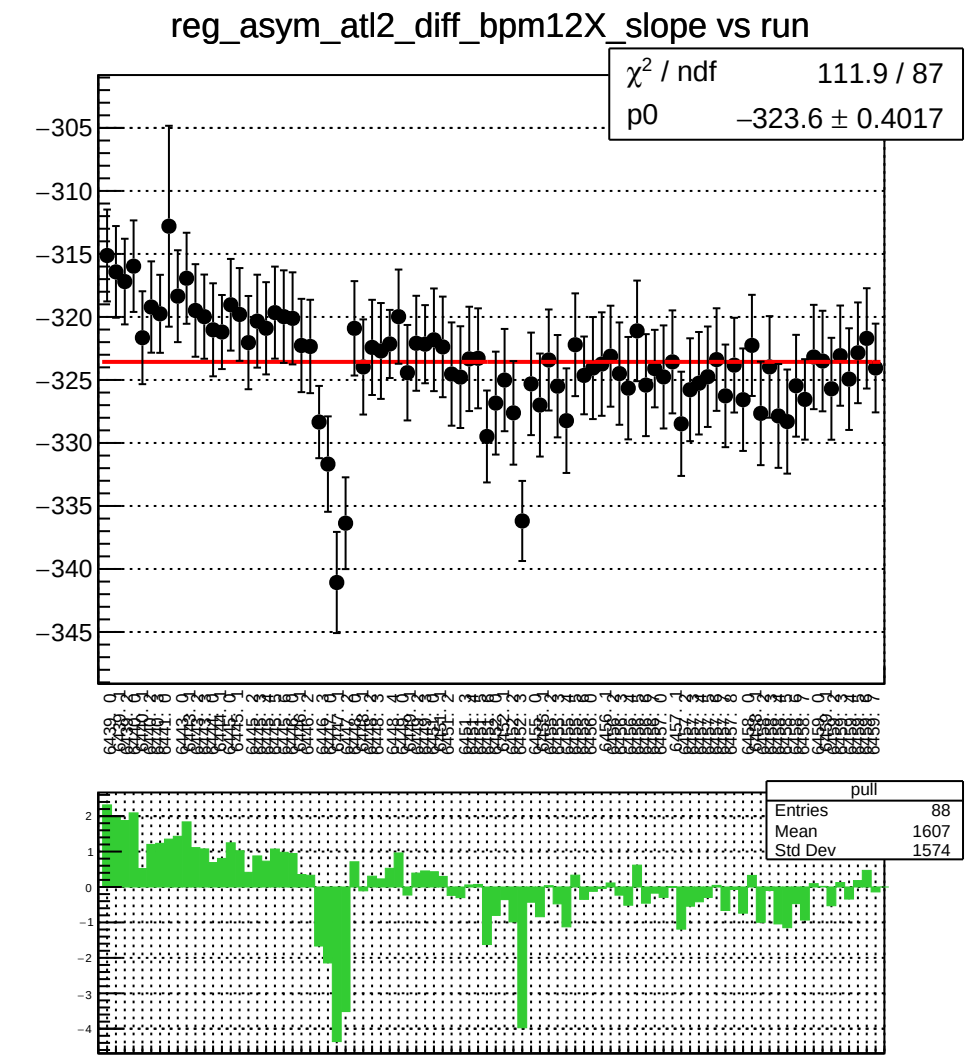

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 40.45 / 87
p0 −95.27 ± 9.68
pull
Entries 88
Mean −1451
Std Dev 1492

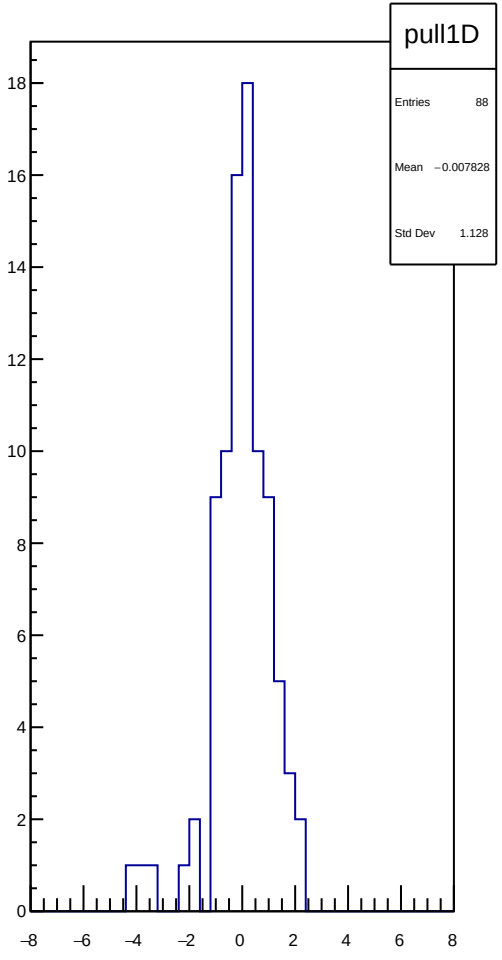

pull1D
Entries 88
Mean 0.007304
Std Dev 0.6779

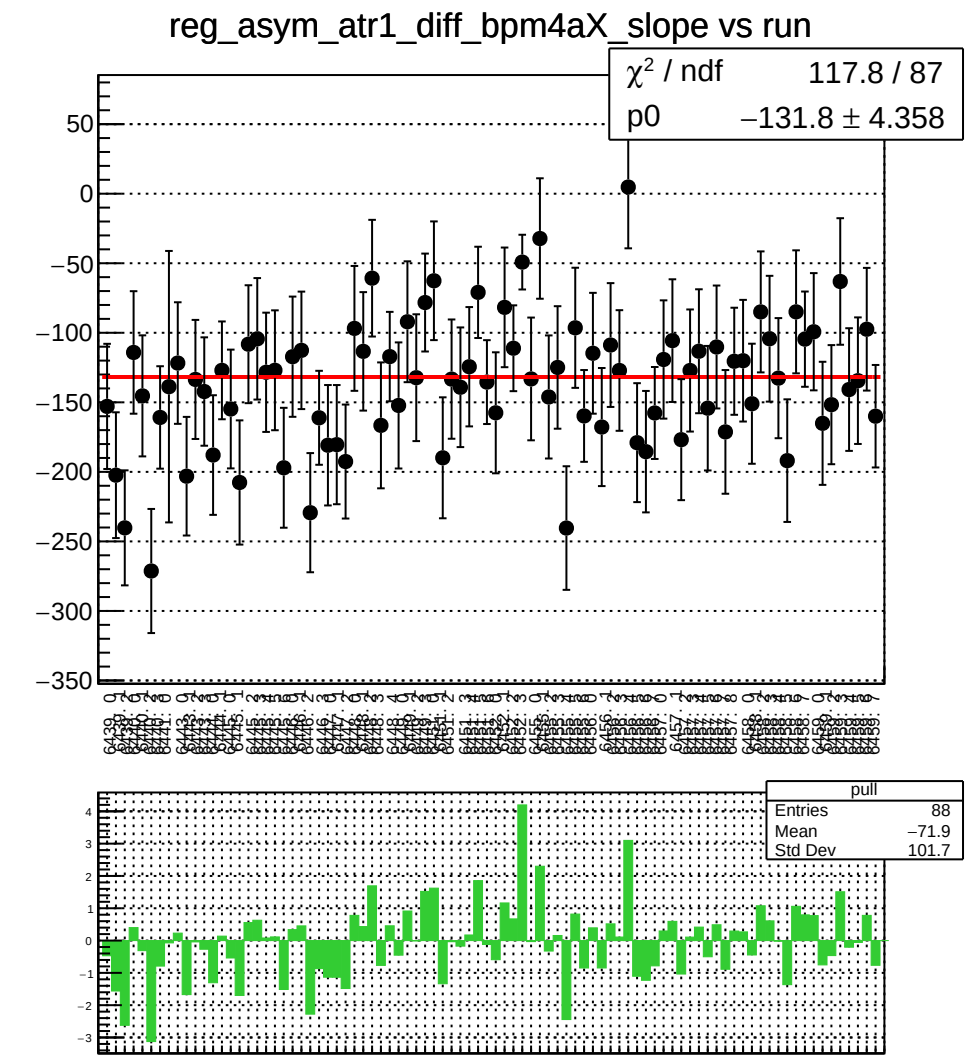

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 52.47 / 87
p0 766 ± 14.99
pull
Entries 88
Mean 159.1
Std Dev 109.8

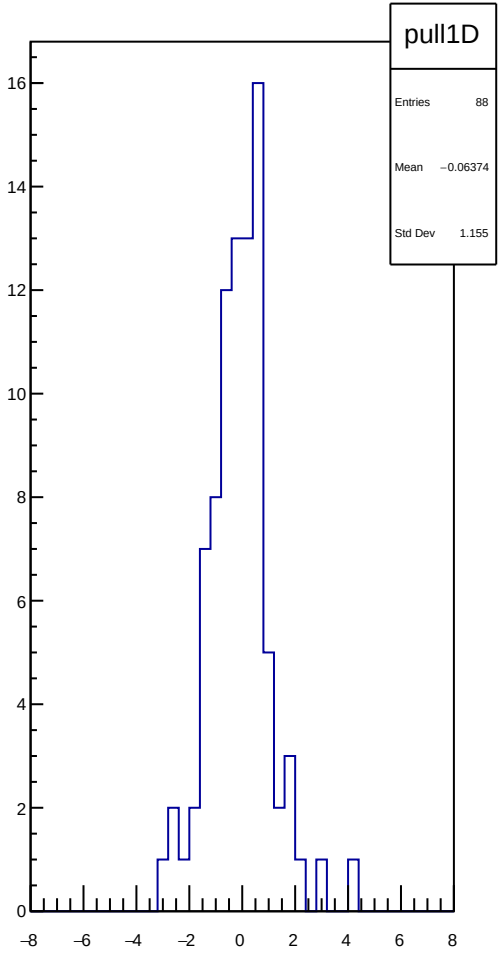

pull1D
Entries 88
Mean 0.06077
Std Dev 0.7698

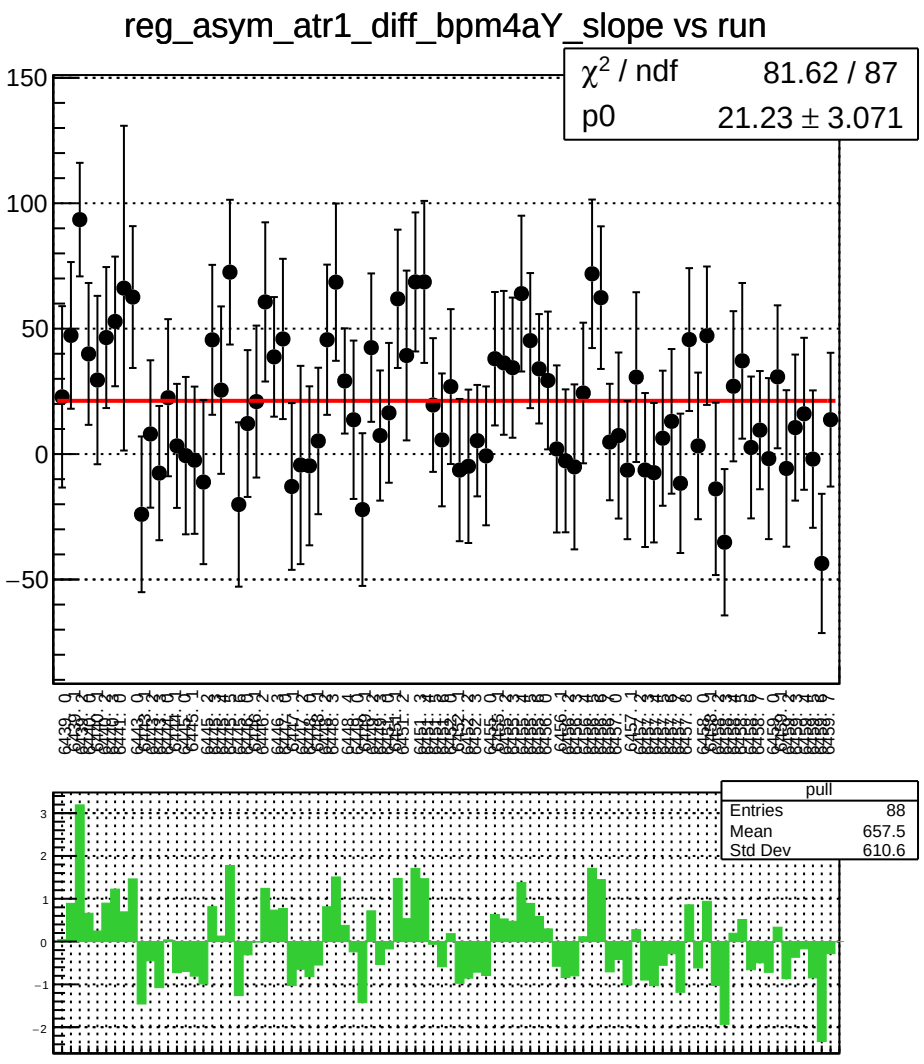

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 84.19 / 87
p0 317.3 ± 9.723
pull
Entries 88
Mean −1228
Std Dev 1268
pull1D
Entries 88
Mean −0.01468
Std Dev 0.978

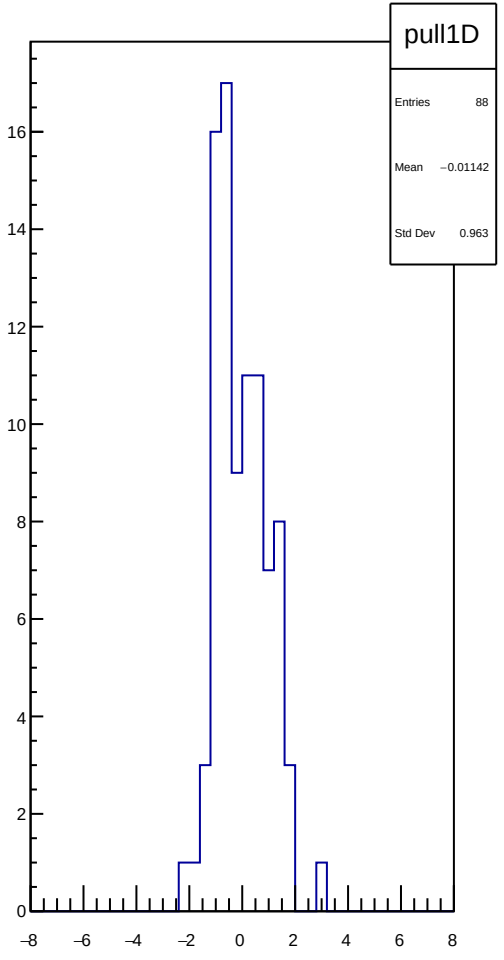

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 111.9 / 87
p0 −323.6 ± 0.4017
pull
Entries 88
Mean 1607
Std Dev 1574

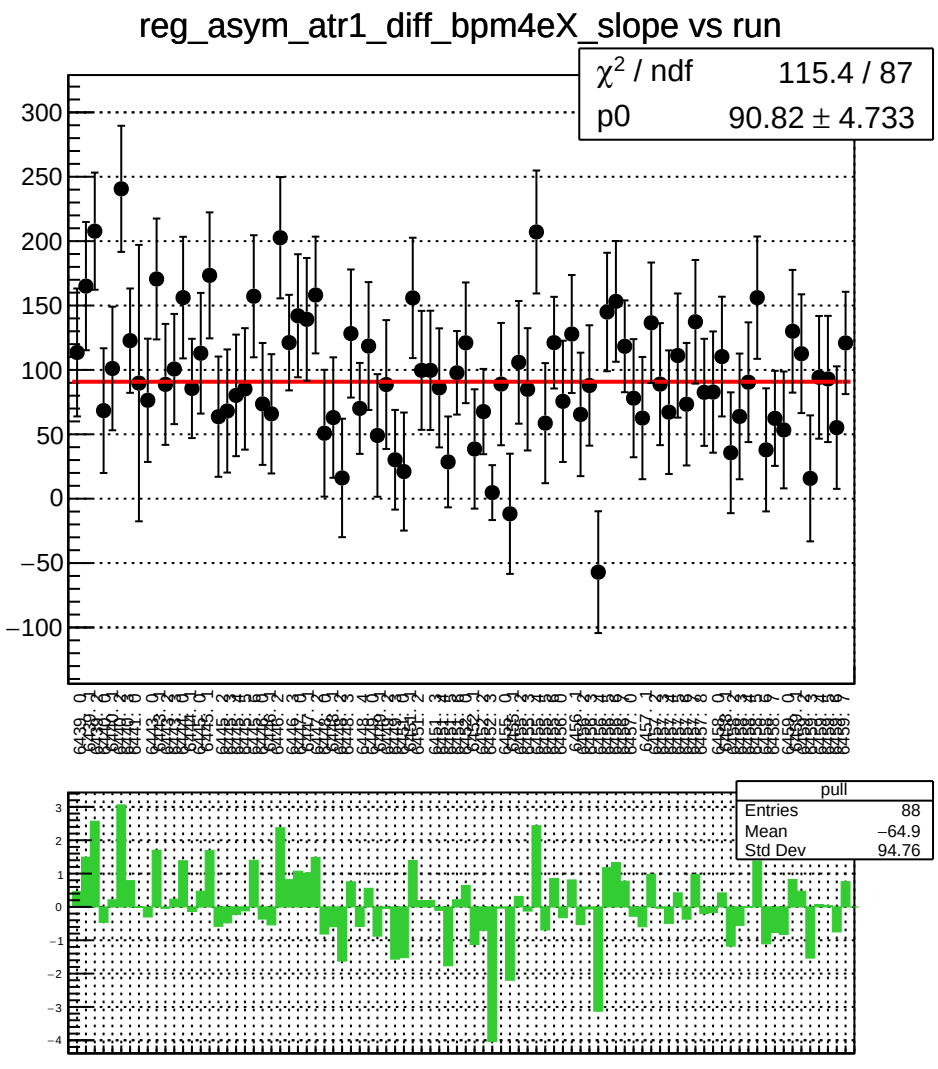

pull1D
Entries 88
Mean −0.007828
Std Dev 1.128

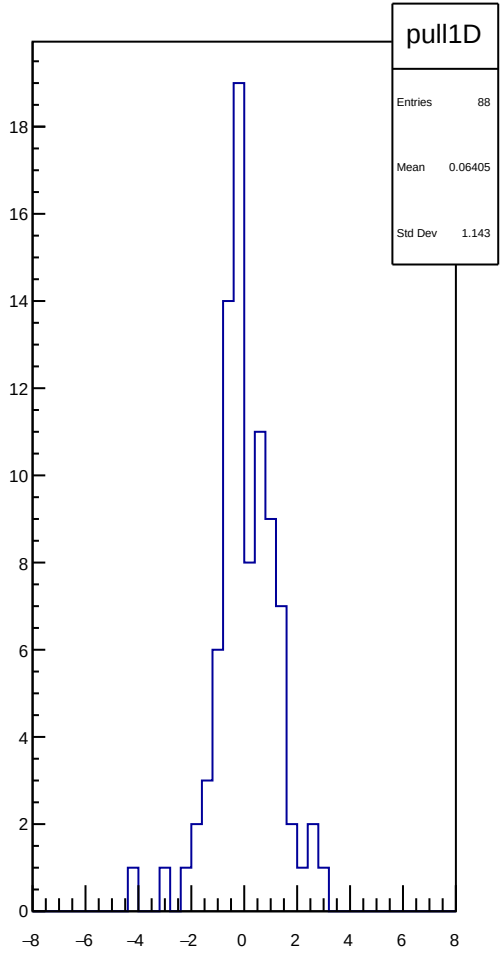

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 117.8 / 87
p0 −131.8 ± 4.358
pull
Entries 88
Mean −71.9
Std Dev 101.7

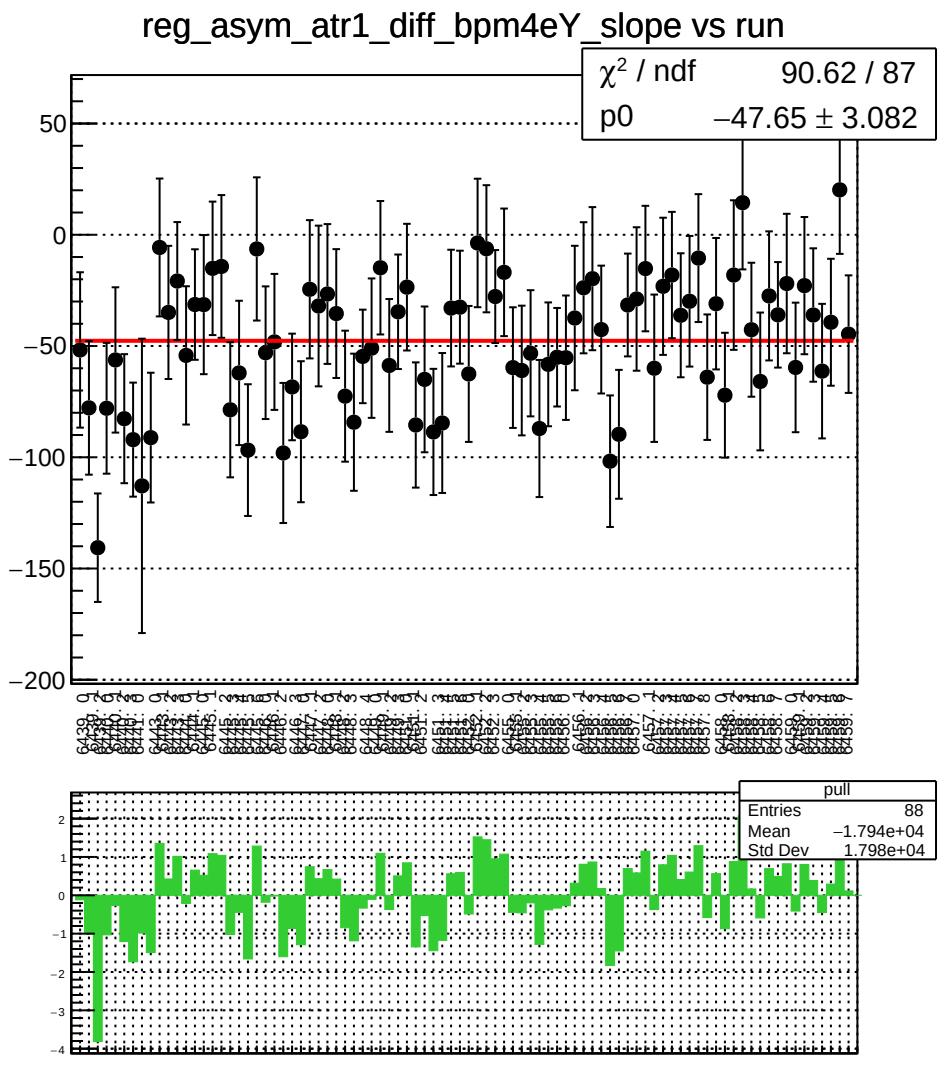

pull1D
Entries 88
Mean −0.06374
Std Dev 1.155

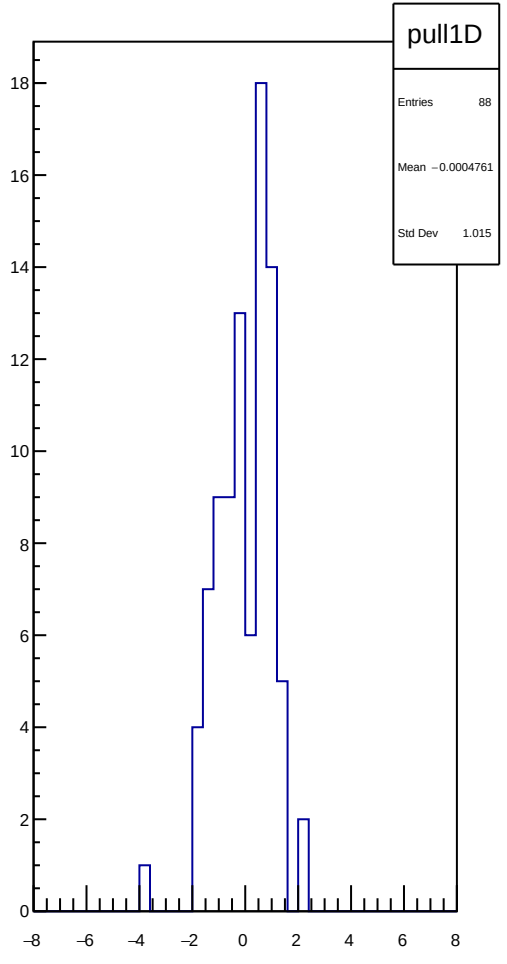

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 81.62 / 87
p0 21.23 ± 3.071
150
100
50
0
−50
pull
Entries 88
Mean 657.5
Std Dev 610.6
3
2
1
0
−1
−2

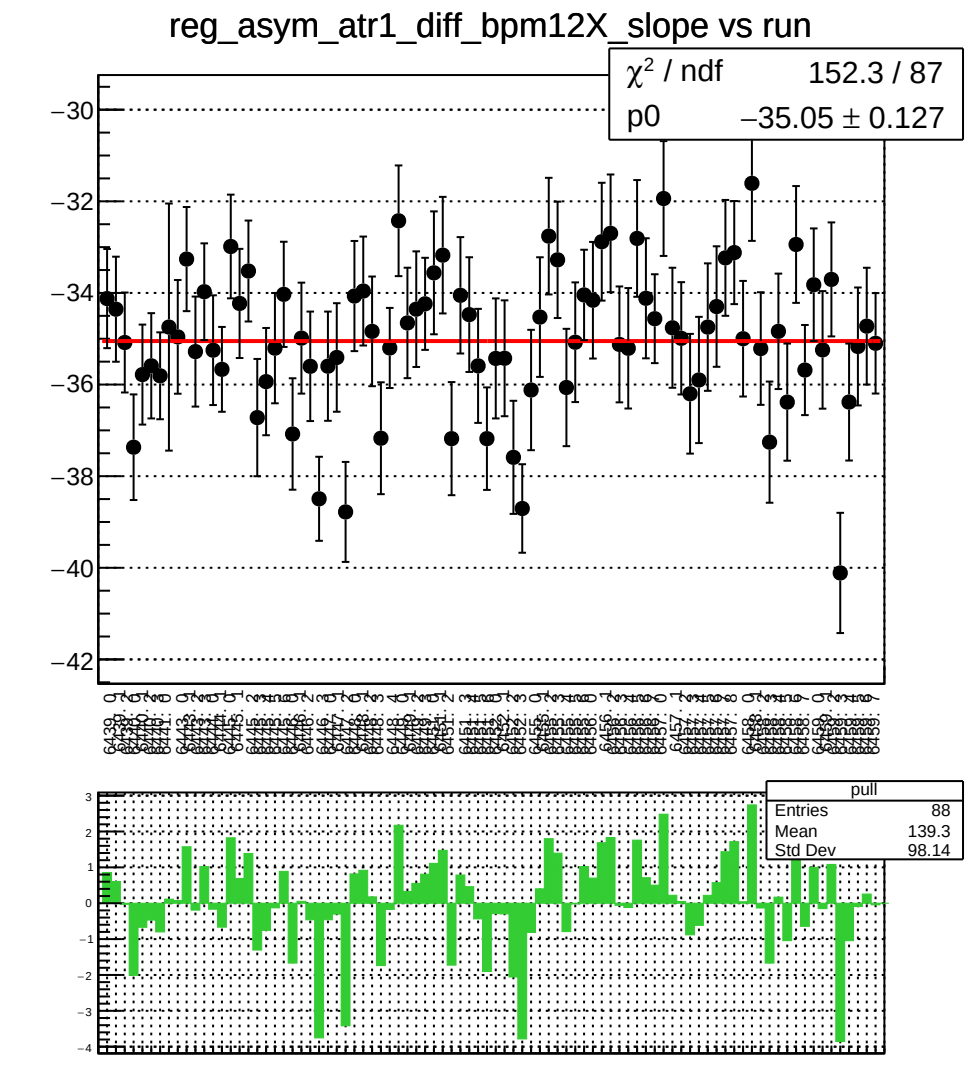

pull1D
Entries 88
Mean −0.01142
Std Dev 0.963
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

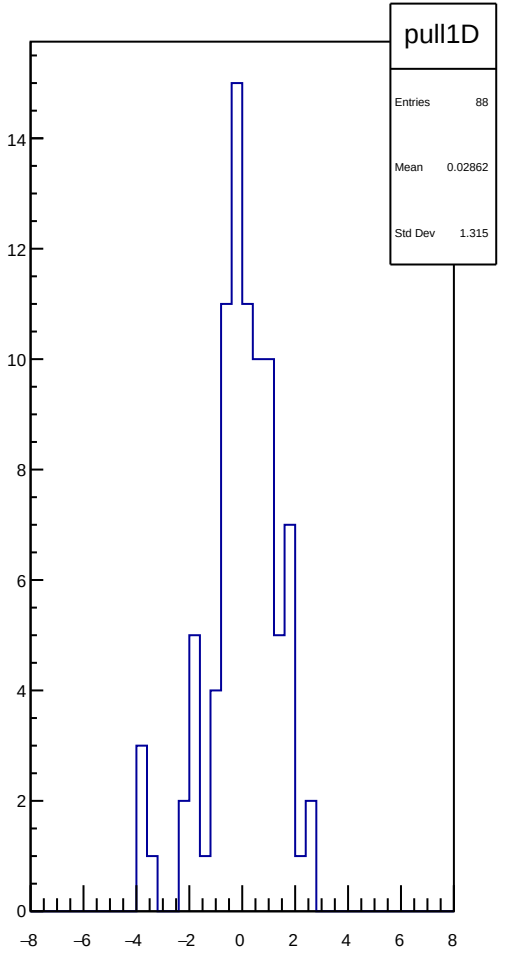

reg_asym_atr1_diff_bpm4eX_slope vs run
χ^2 / ndf 115.4 / 87
p0 90.82 ± 4.733
pull
Entries 88
Mean −64.9
Std Dev 94.76

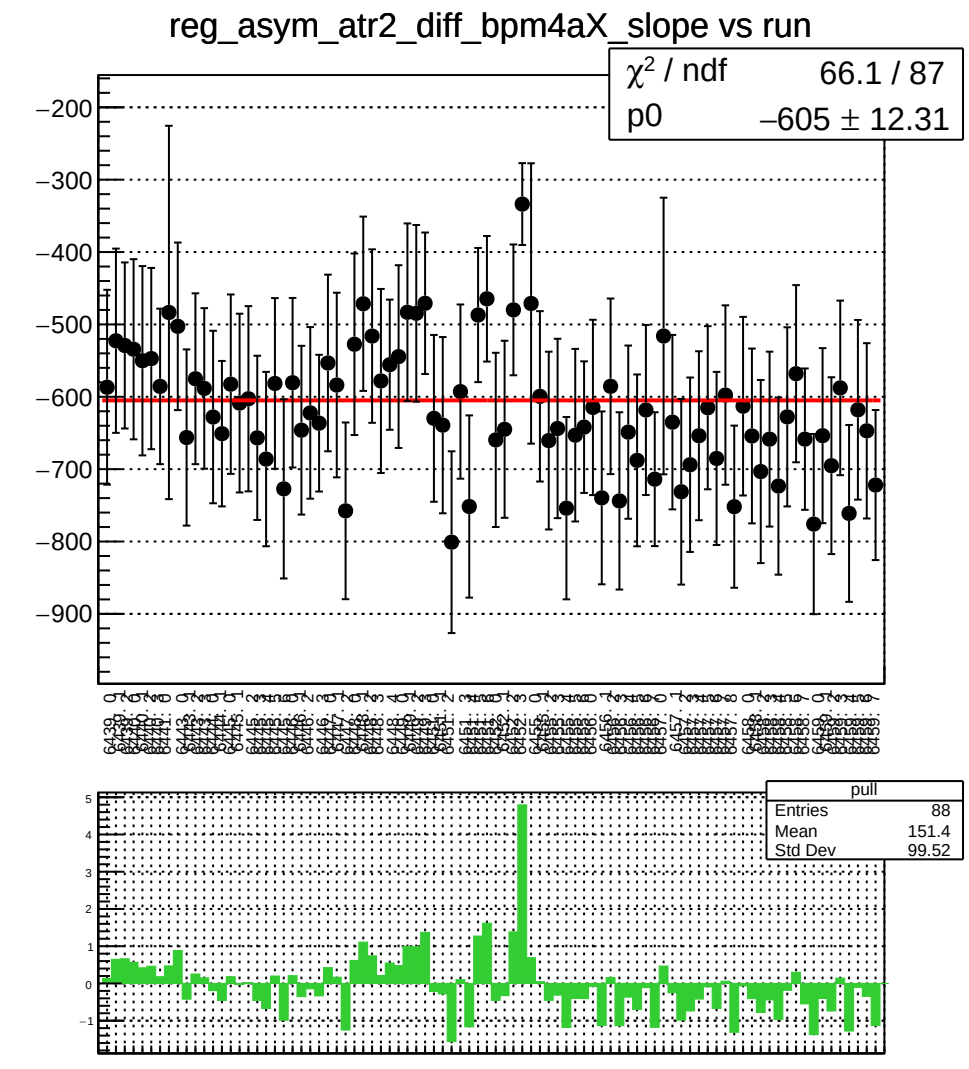

pull1D
Entries 88
Mean 0.06405
Std Dev 1.143

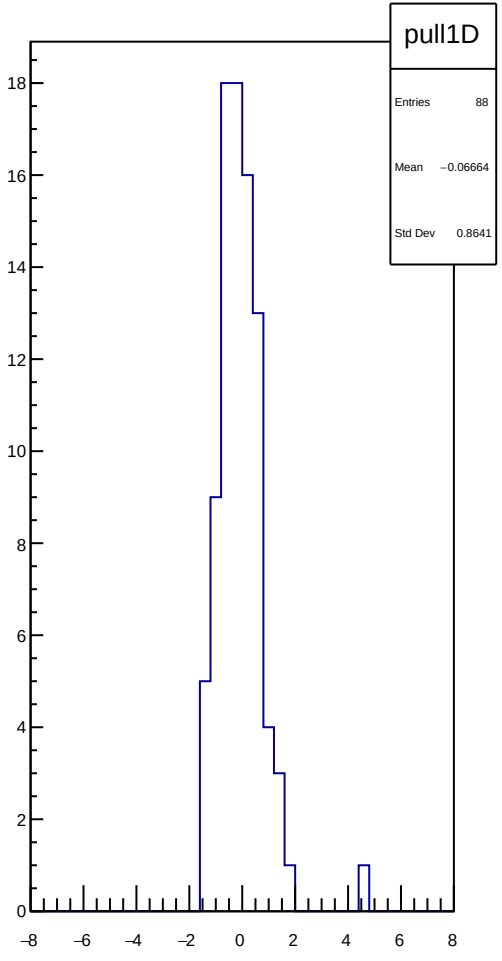

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 90.62 / 87
p0 −47.65 ± 3.082
pull
Entries 88
Mean −1.794e+04
Std Dev 1.798e+04

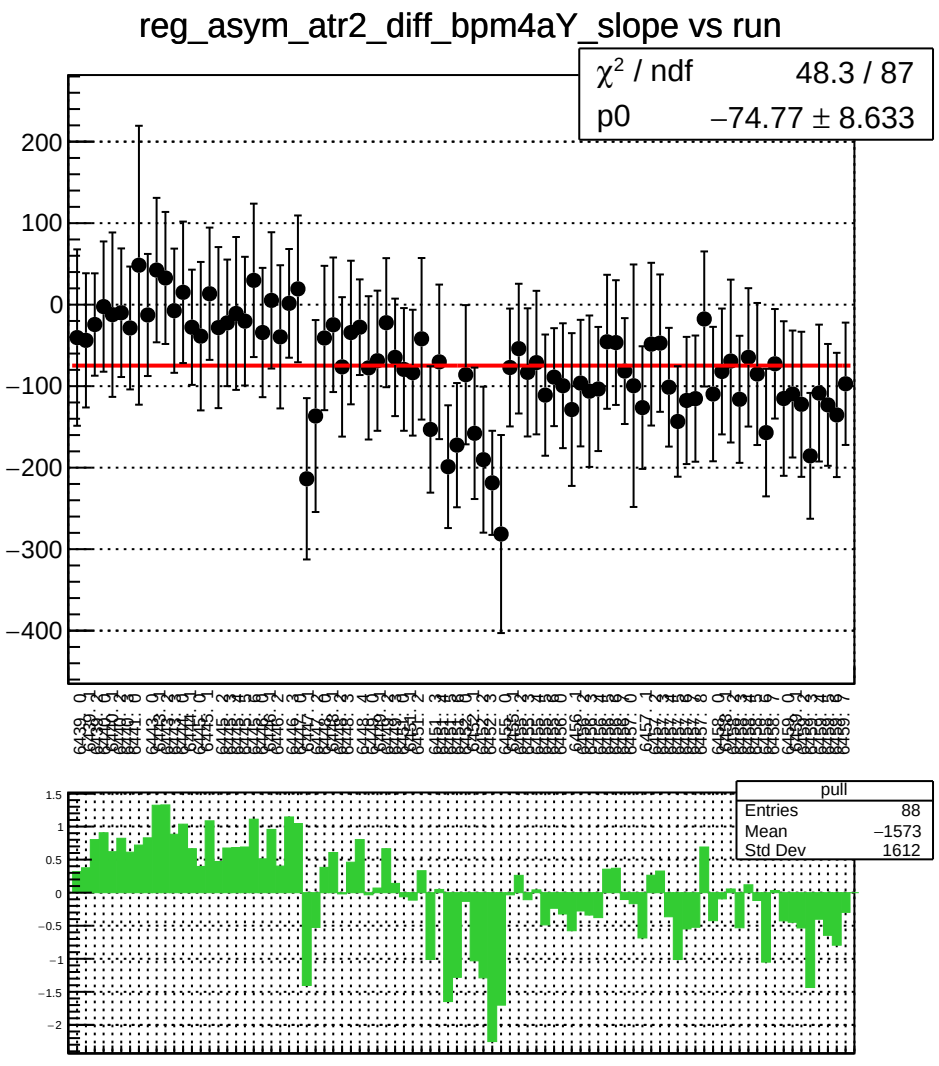

pull1D
Entries 88
Mean −0.0004761
Std Dev 1.015

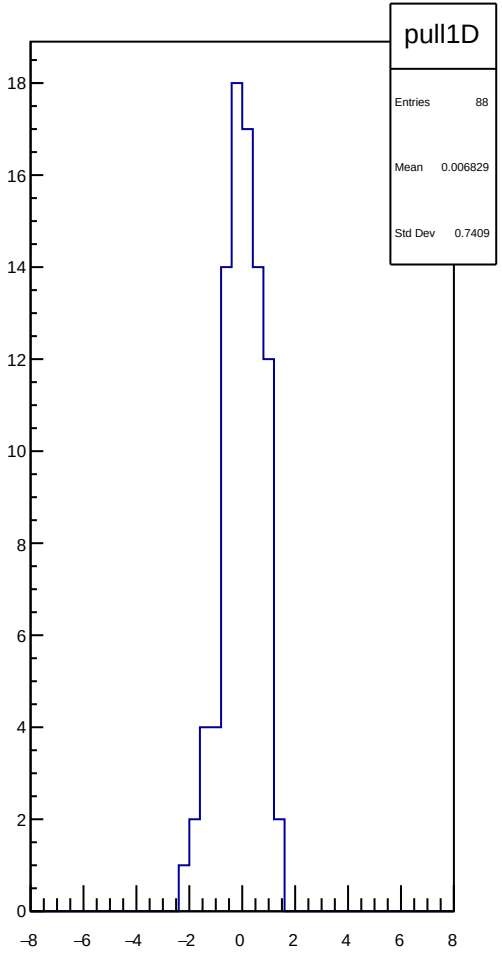

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 152.3 / 87
p0 −35.05 ± 0.127
pull
Entries 88
Mean 139.3
Std Dev 98.14

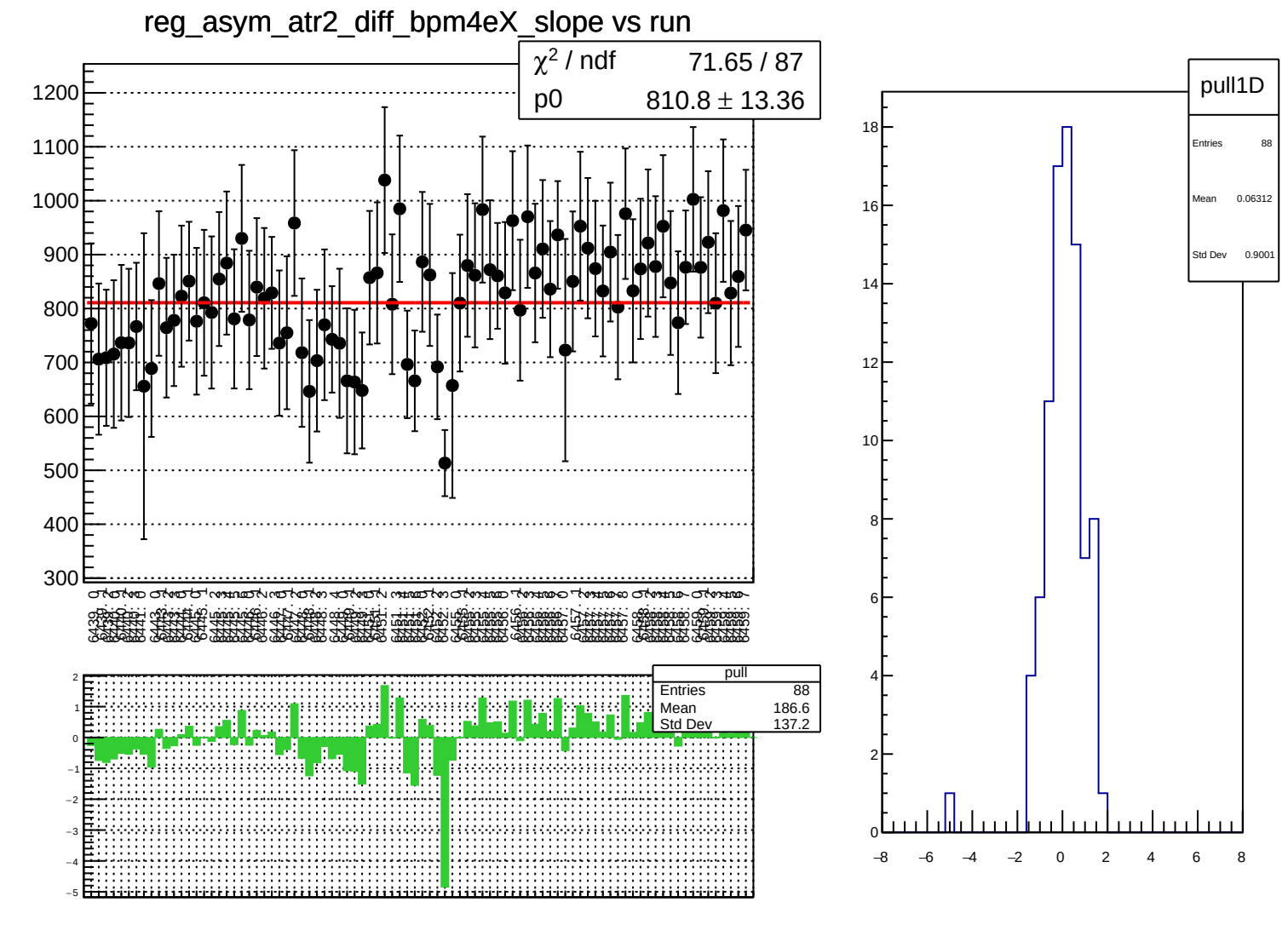

pull1D
Entries 88
Mean 0.02862
Std Dev 1.315

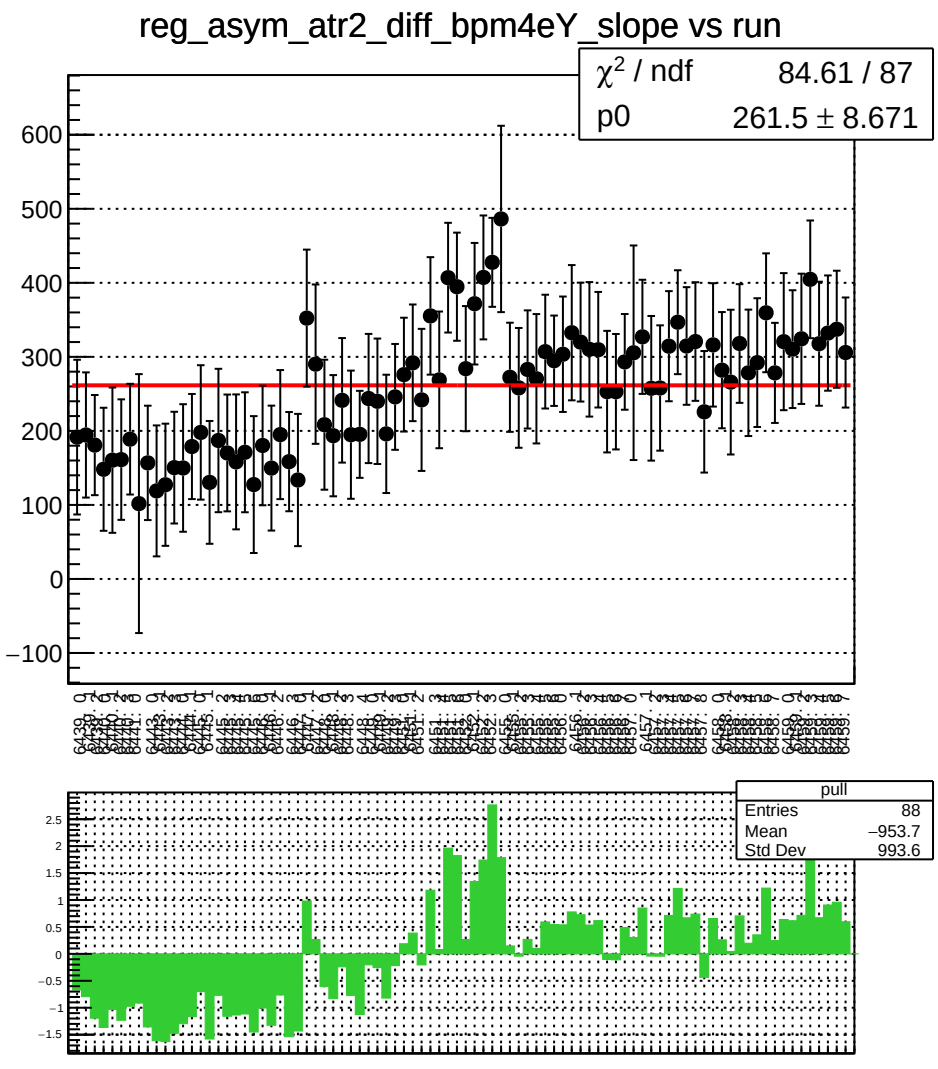

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 66.1 / 87
p0 −605 ± 12.31
pull
Entries 88
Mean 151.4
Std Dev 99.52

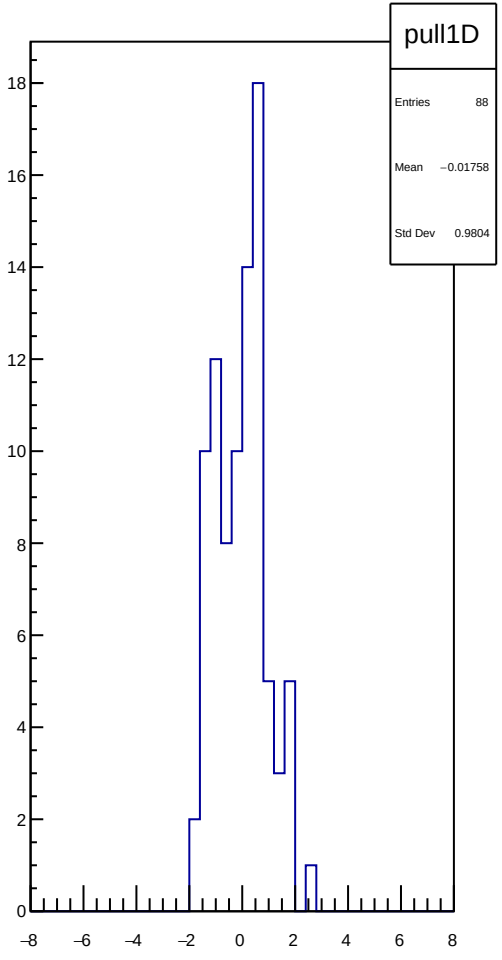

pull1D
Entries 88
Mean −0.06664
Std Dev 0.8641

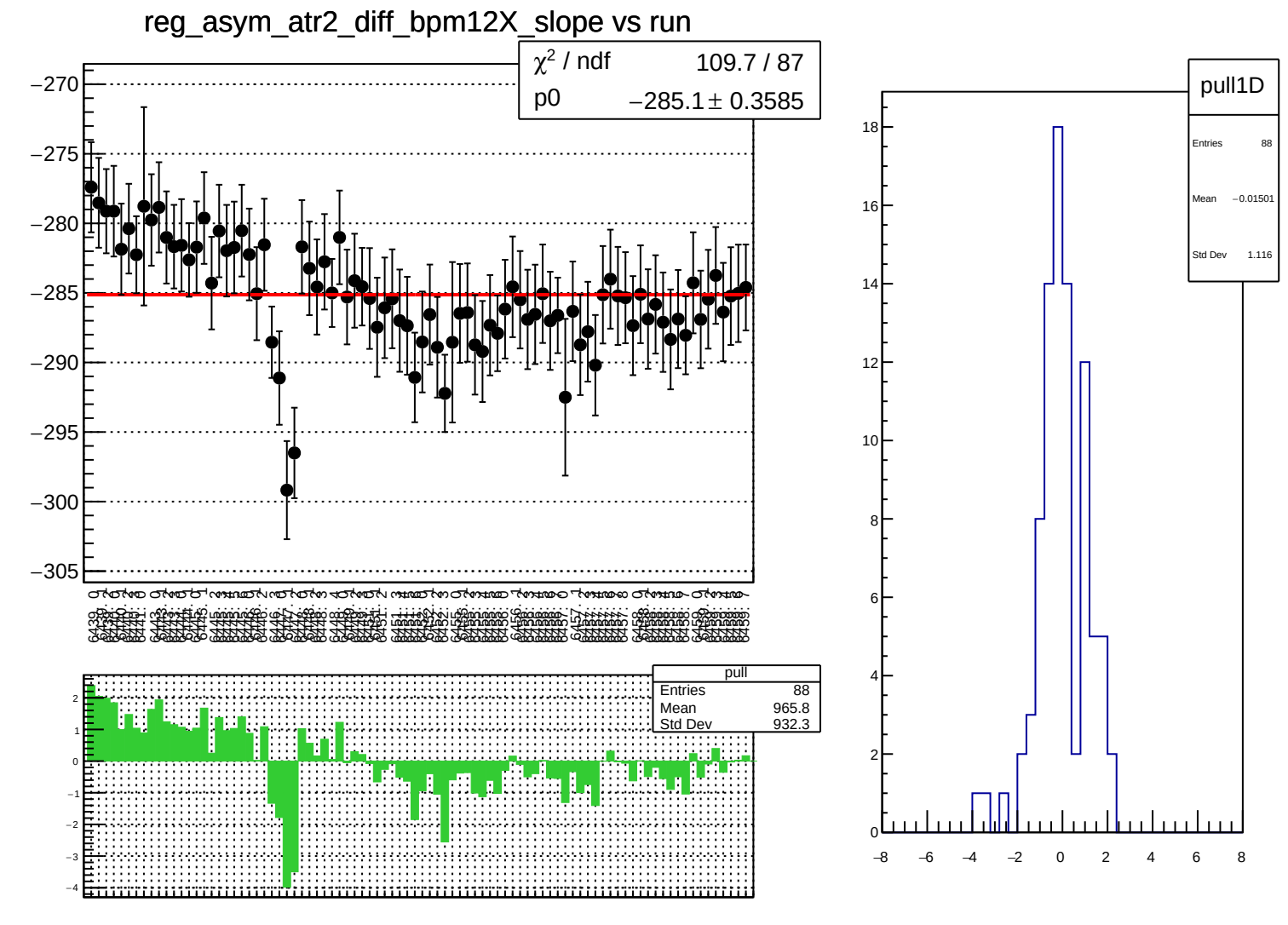

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 48.3 / 87
p0 −74.77 ± 8.633
pull
Entries 88
Mean −1573
Std Dev 1612

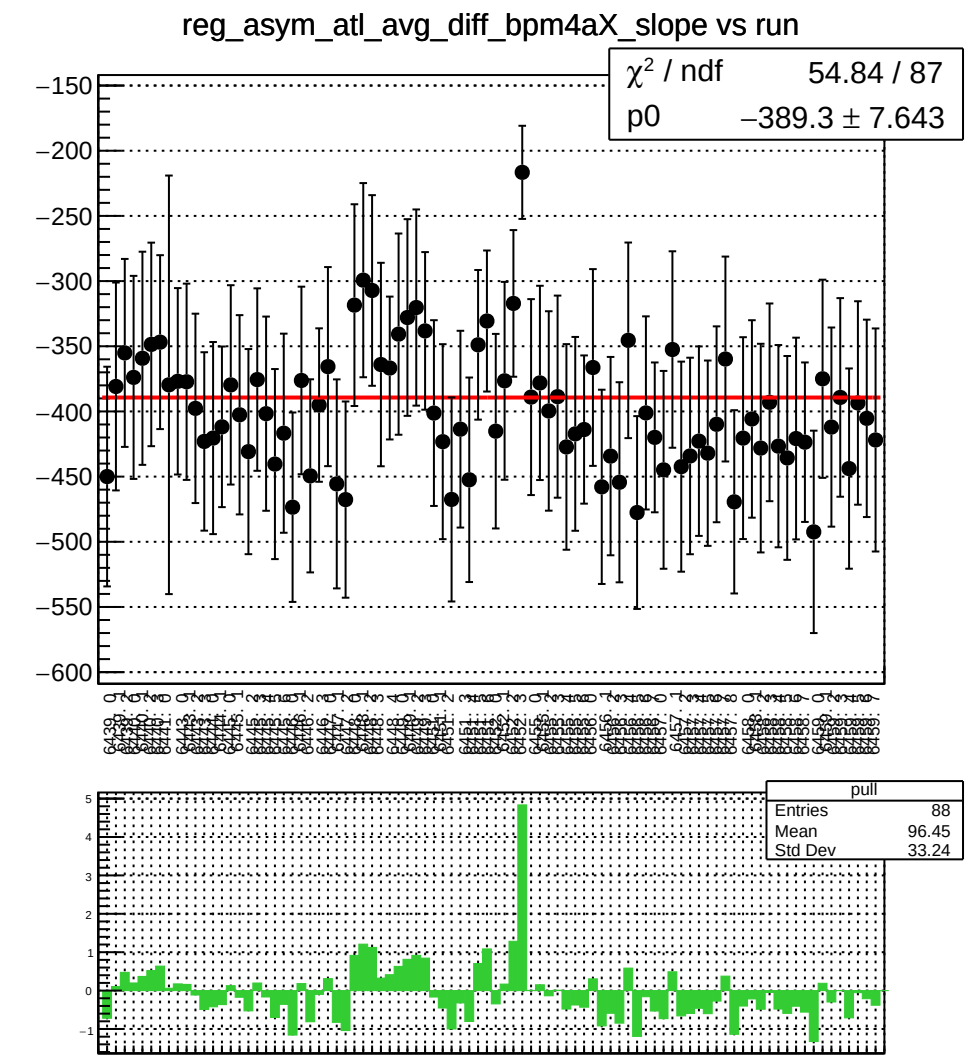

pull1D
Entries 88
Mean 0.006829
Std Dev 0.7409

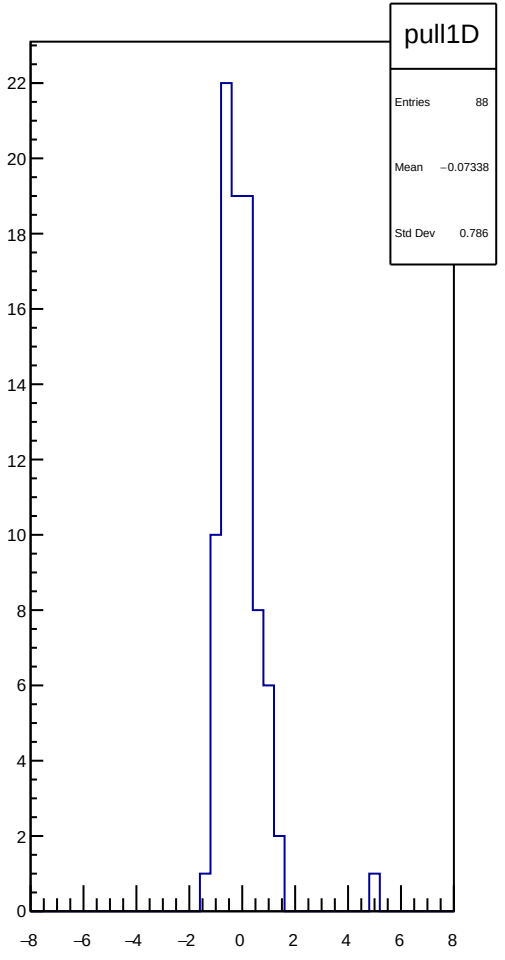

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 71.65 / 87
p0 810.8 ± 13.36
pull
Entries 88
Mean 186.6
Std Dev 137.2
pull1D
Entries 88
Mean 0.06312
Std Dev 0.9001

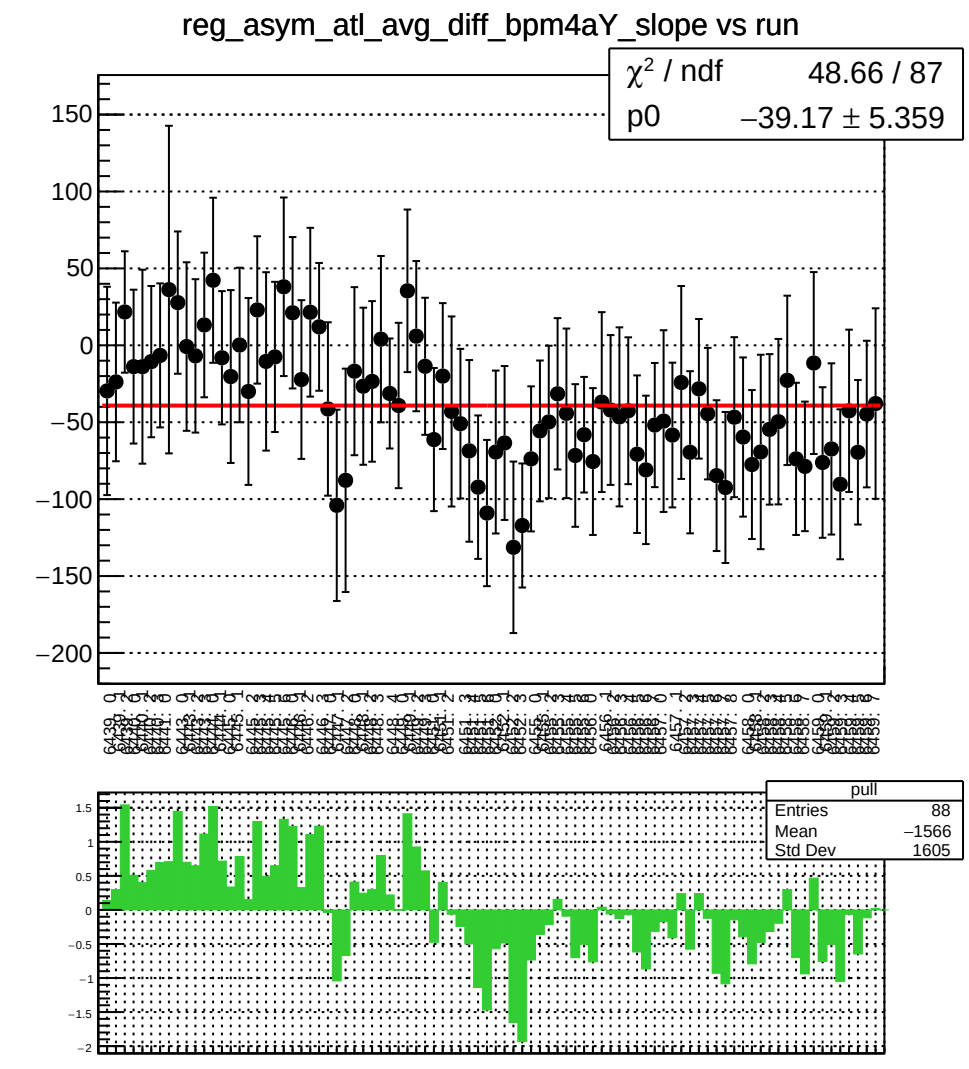

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 84.61 / 87
p0 261.5 ± 8.671
pull
Entries 88
Mean −953.7
Std Dev 993.6

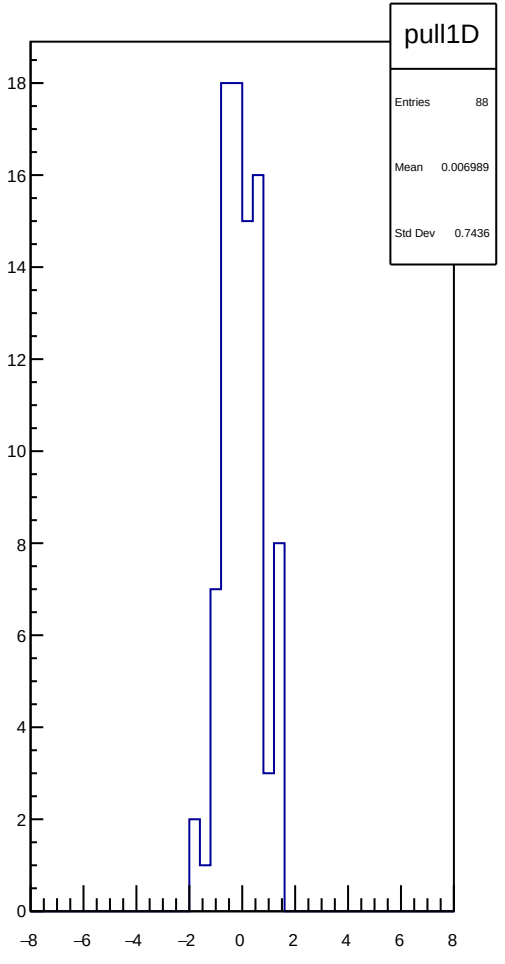

pull1D
Entries 88
Mean −0.01758
Std Dev 0.9804

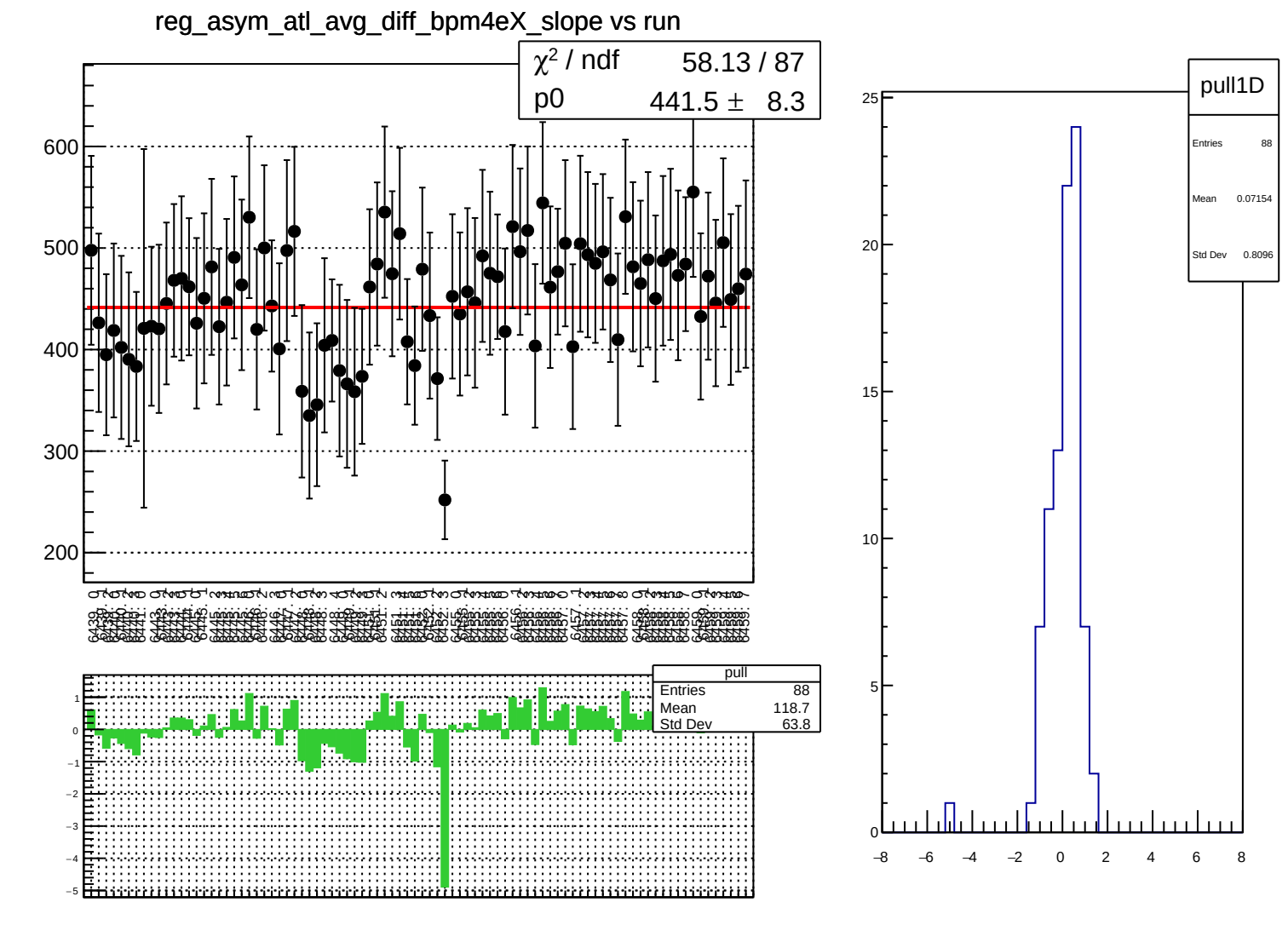

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 109.7 / 87
p0 −285.1 ± 0.3585
pull
Entries 88
Mean 965.8
Std Dev 932.3
pull1D
Entries 88
Mean −0.01501
Std Dev 1.116

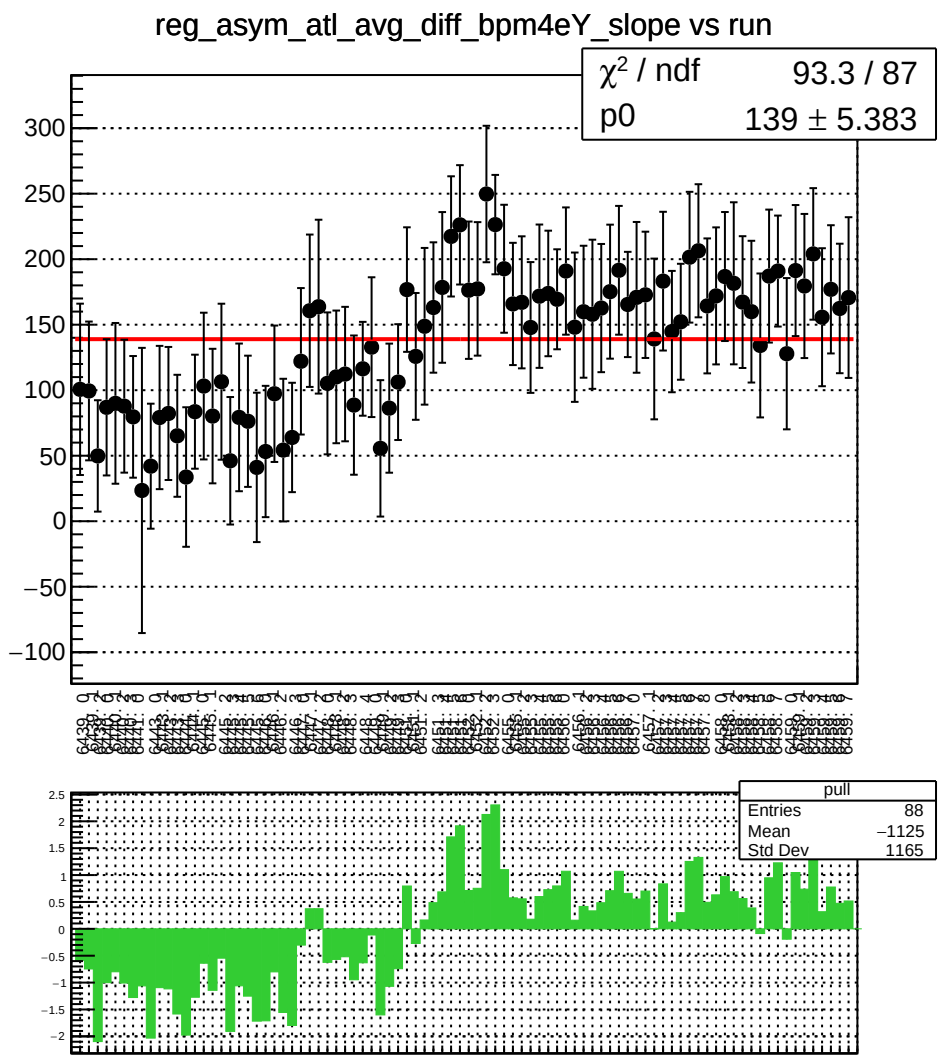

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 54.84 / 87
p0 −389.3 ± 7.643
pull
Entries 88
Mean 96.45
Std Dev 33.24

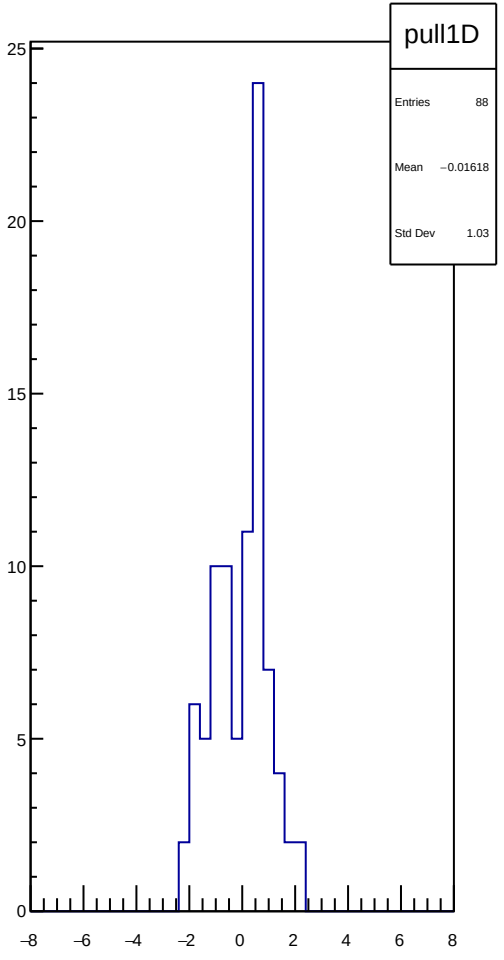

pull1D
Entries 88
Mean −0.07338
Std Dev 0.786

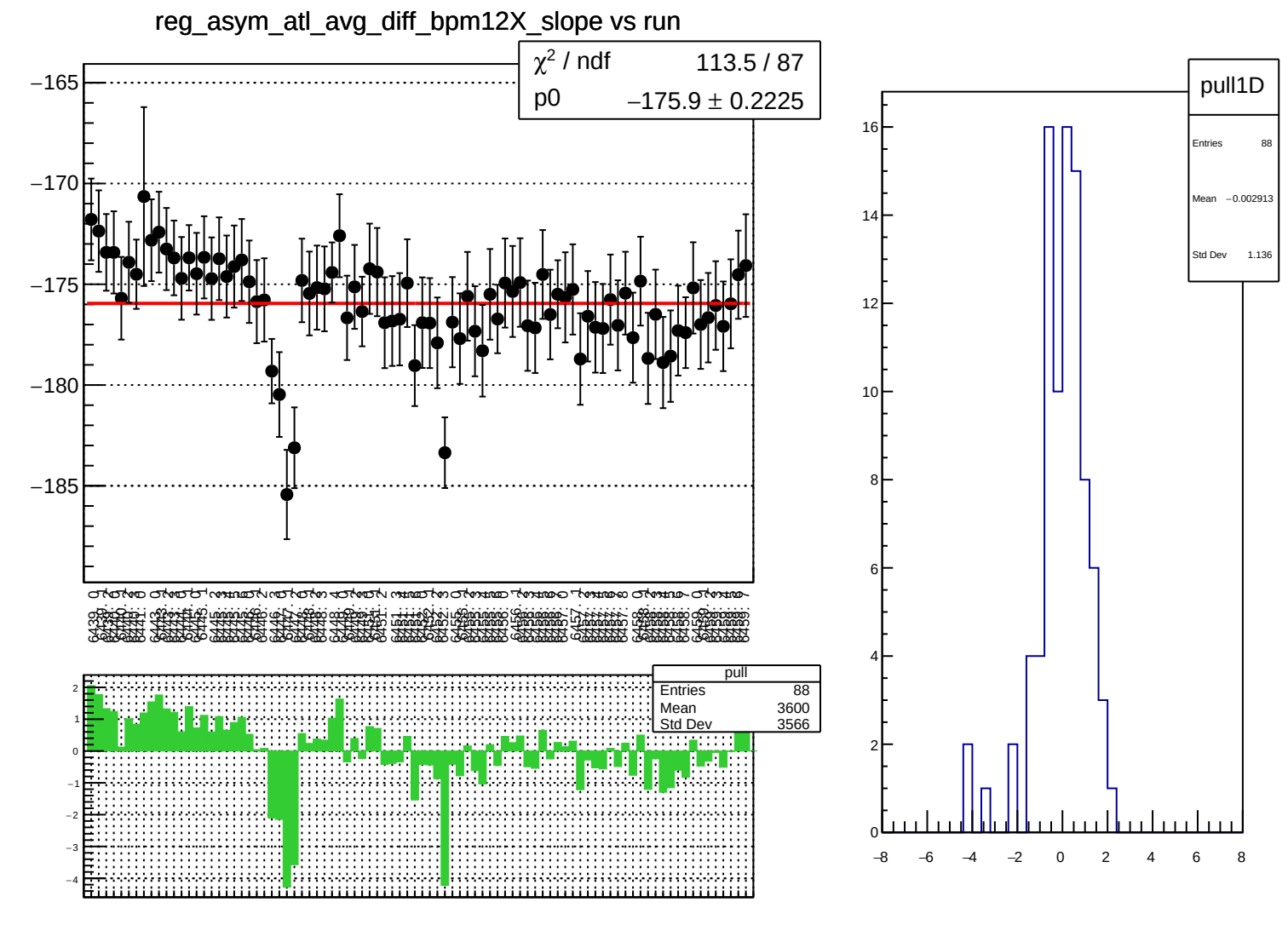

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.66 / 87
p0 −39.17 ± 5.359
pull
Entries 88
Mean −1566
Std Dev 1605

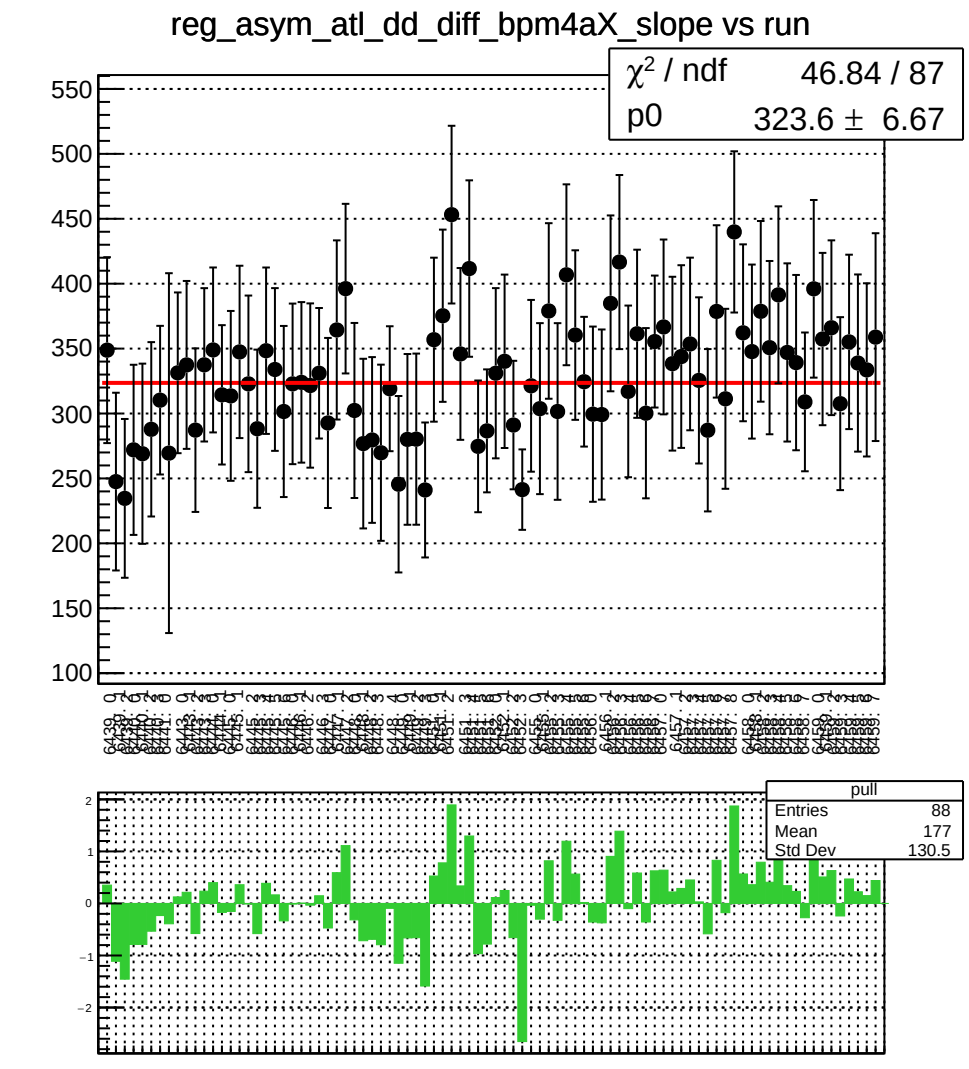

pull1D
Entries 88
Mean 0.006989
Std Dev 0.7436

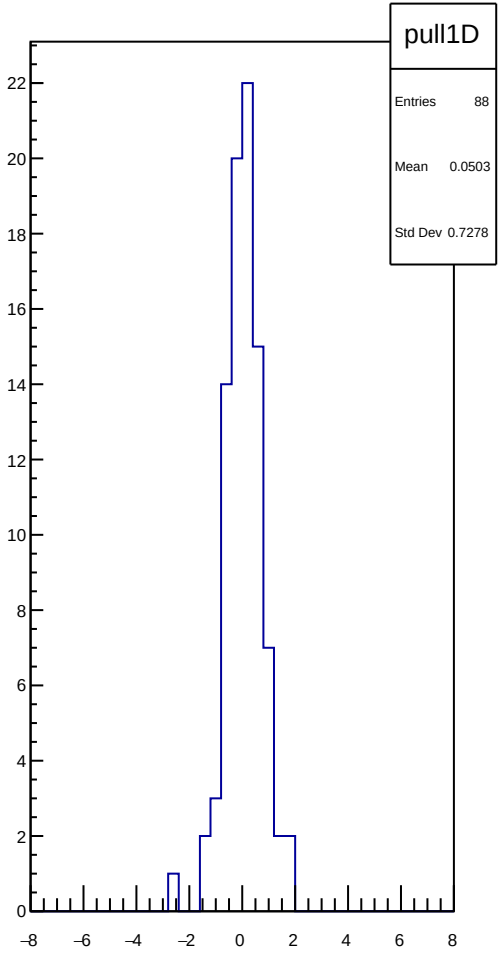

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.13 / 87
p0 441.5 ± 8.3
pull
Entries 88
Mean 118.7
Std Dev 63.8
pull1D
Entries 88
Mean 0.07154
Std Dev 0.8096

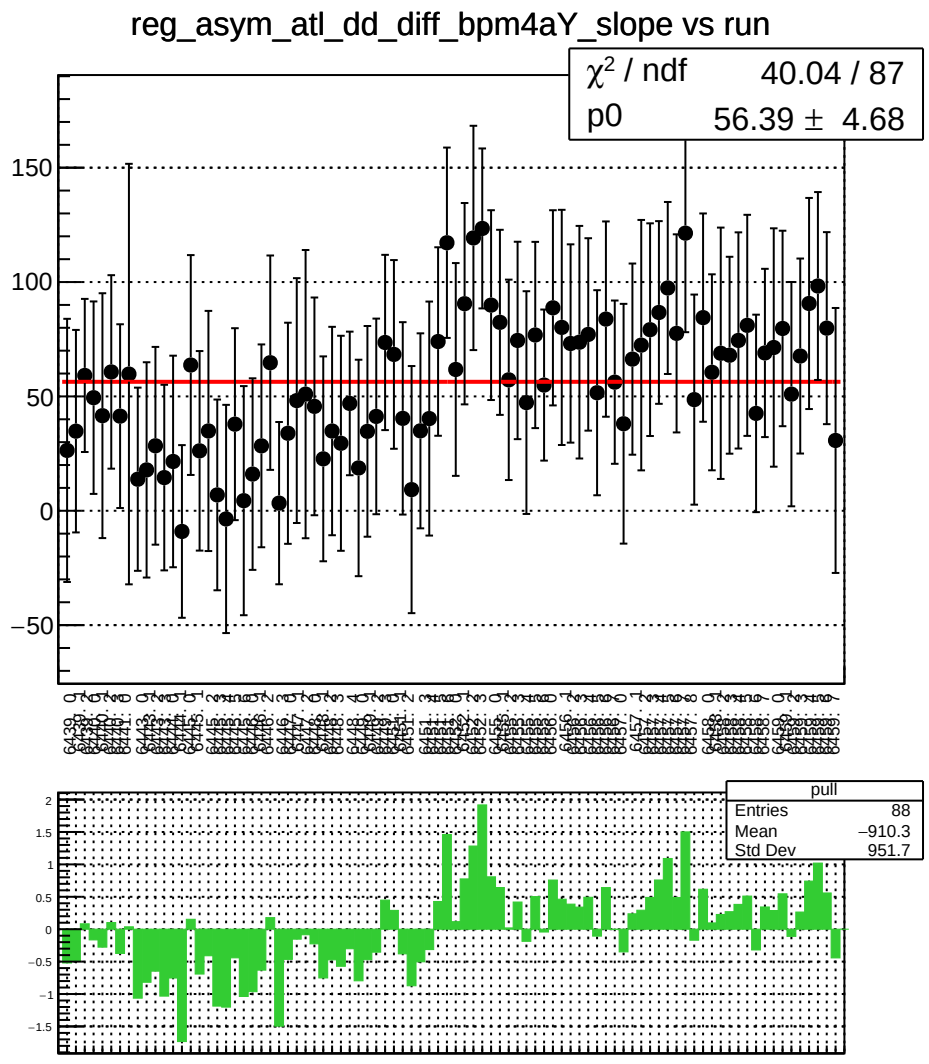

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 93.3 / 87
p0 139 ± 5.383
pull
Entries 88
Mean −1125
Std Dev 1165

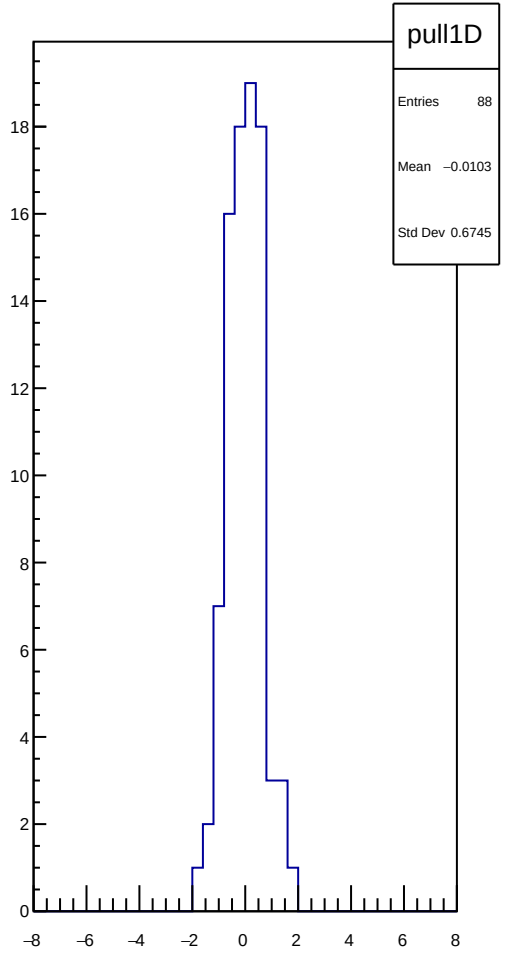

pull1D
Entries 88
Mean −0.01618
Std Dev 1.03

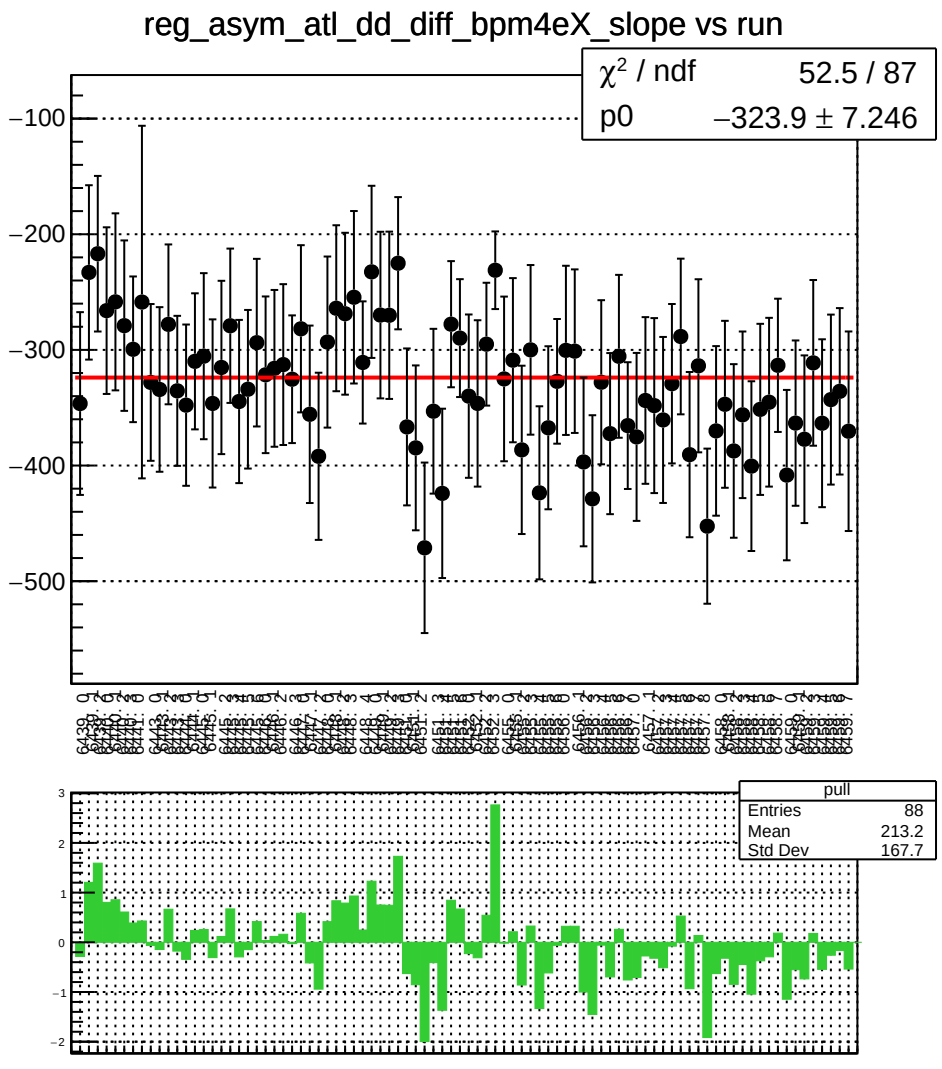

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 113.5 / 87
p0 −175.9 ± 0.2225
−165
−170
−175
−180
−185
pull
Entries 88
Mean 3600
Std Dev 3566
2
1
0
−1
−2
−3
−4
pull1D
Entries 88
Mean −0.002913
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

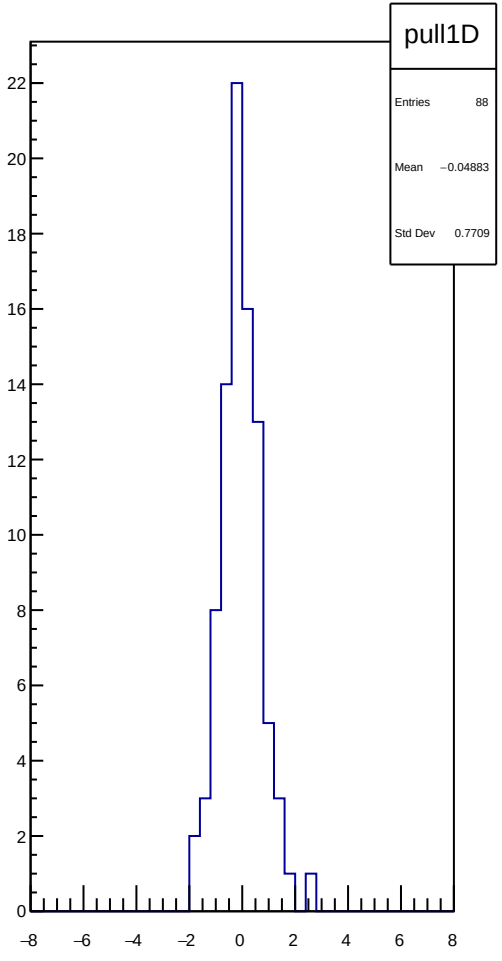

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 46.84 / 87
p0 323.6 ± 6.67
pull
Entries 88
Mean 177
Std Dev 130.5

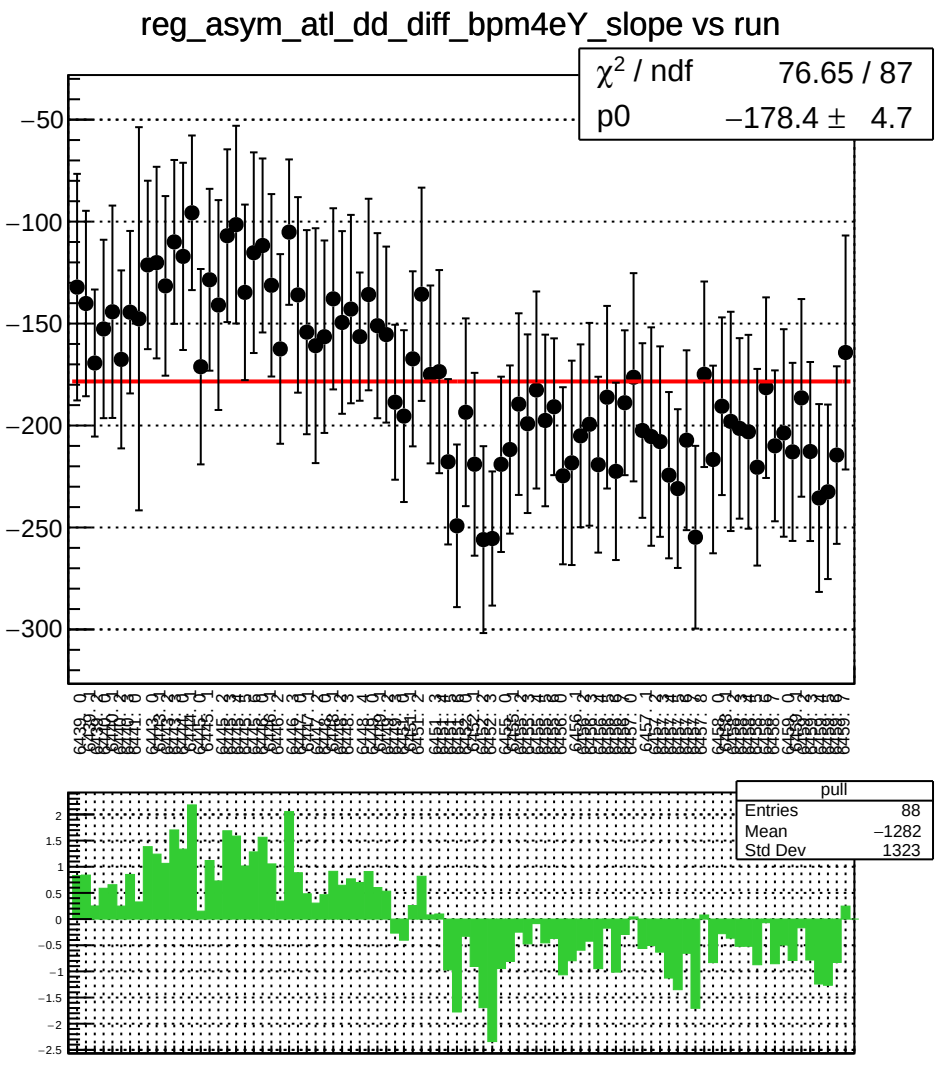

pull1D
Entries 88
Mean 0.0503
Std Dev 0.7278

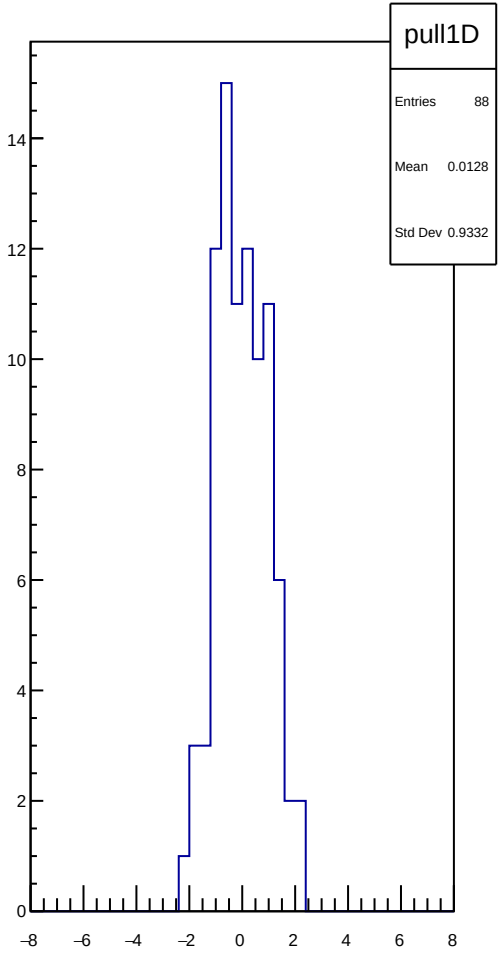

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.04 / 87
p0 56.39 ± 4.68
150
100
50
0
−50
pull
Entries 88
Mean −910.3
Std Dev 951.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

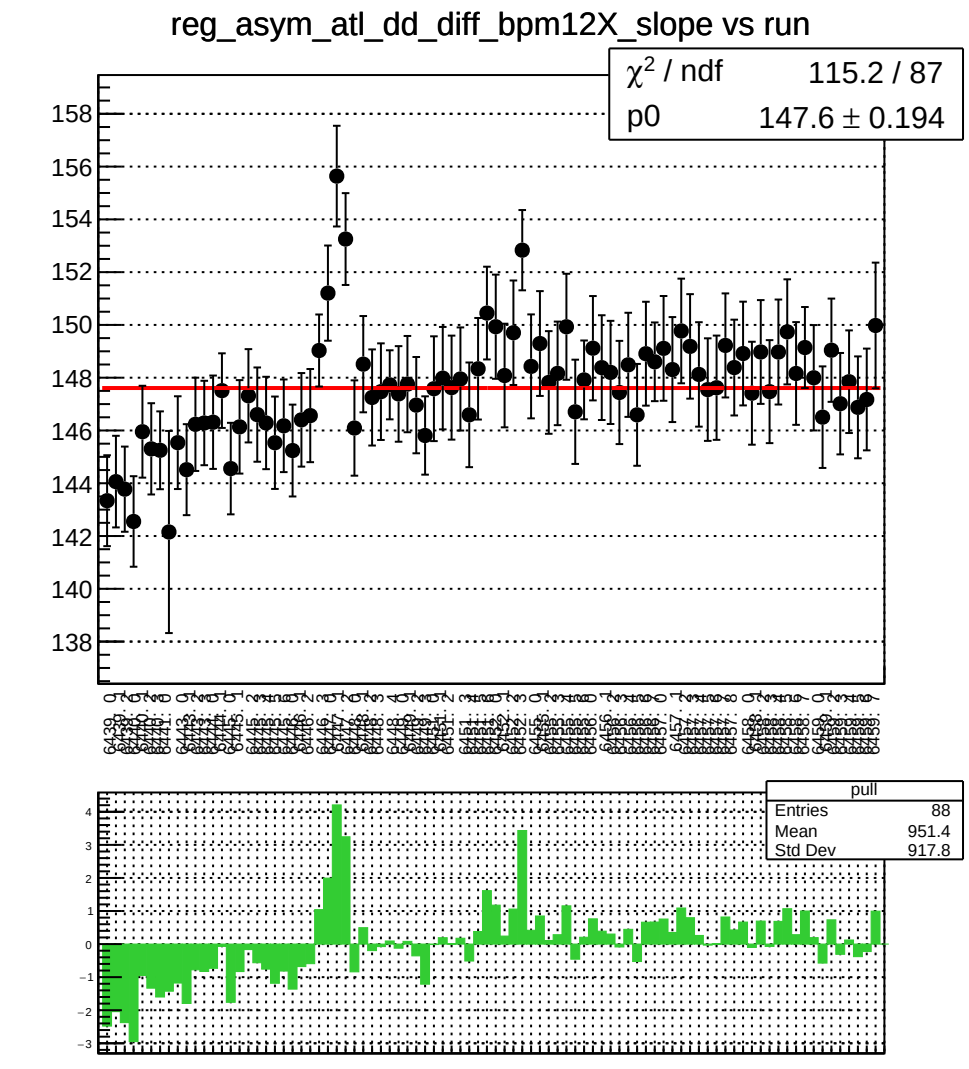

pull1D
Entries 88
Mean −0.0103
Std Dev 0.6745
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

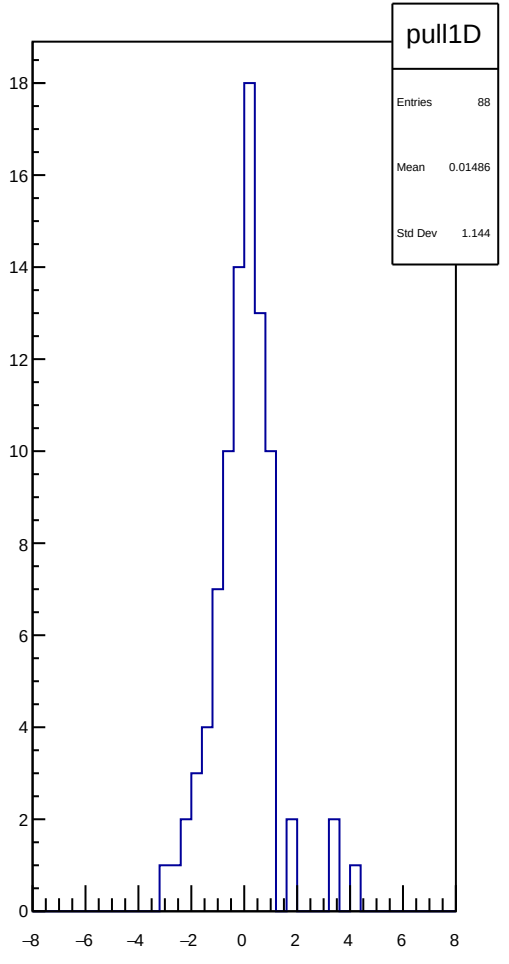

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.5 / 87
p0 −323.9 ± 7.246
−100
−200
−300
−400
−500
pull
Entries 88
Mean 213.2
Std Dev 167.7
3
2
1
0
−1
−2

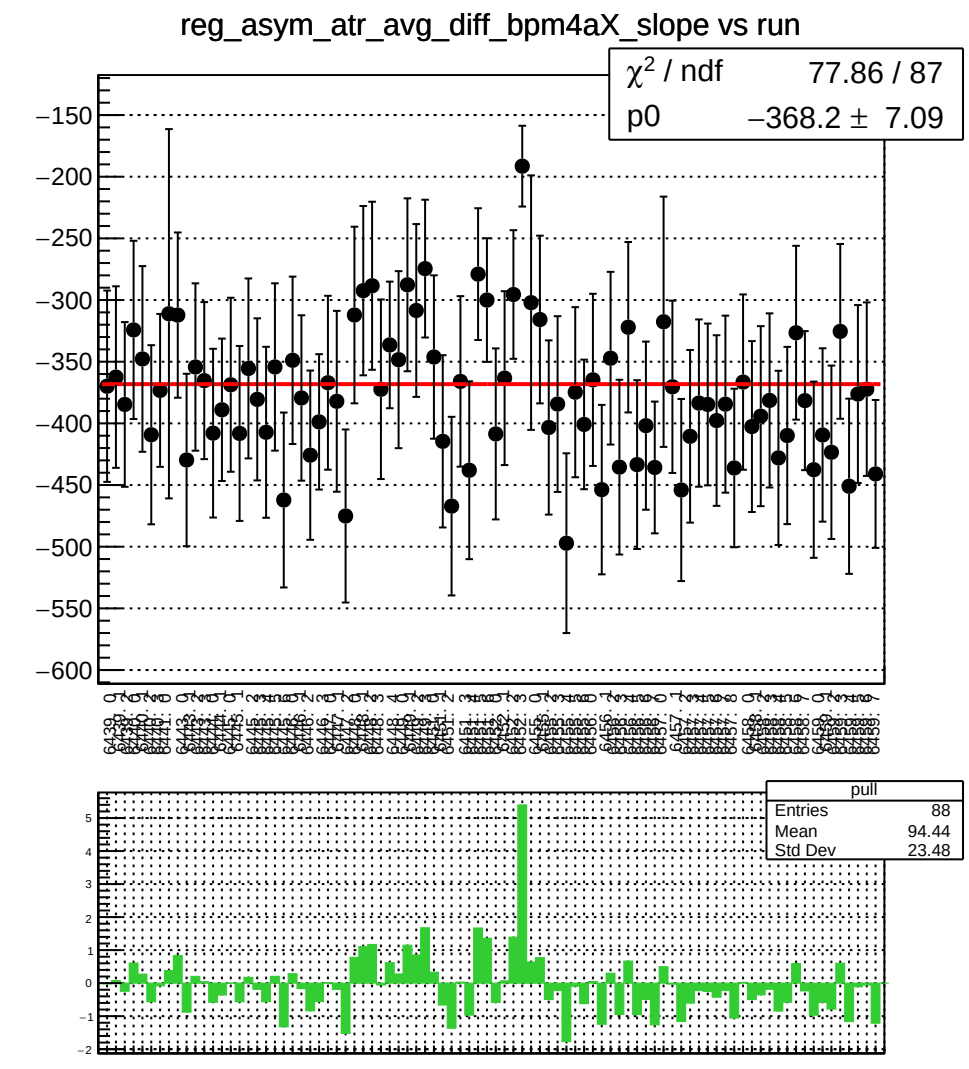

pull1D
Entries 88
Mean −0.04883
Std Dev 0.7709
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

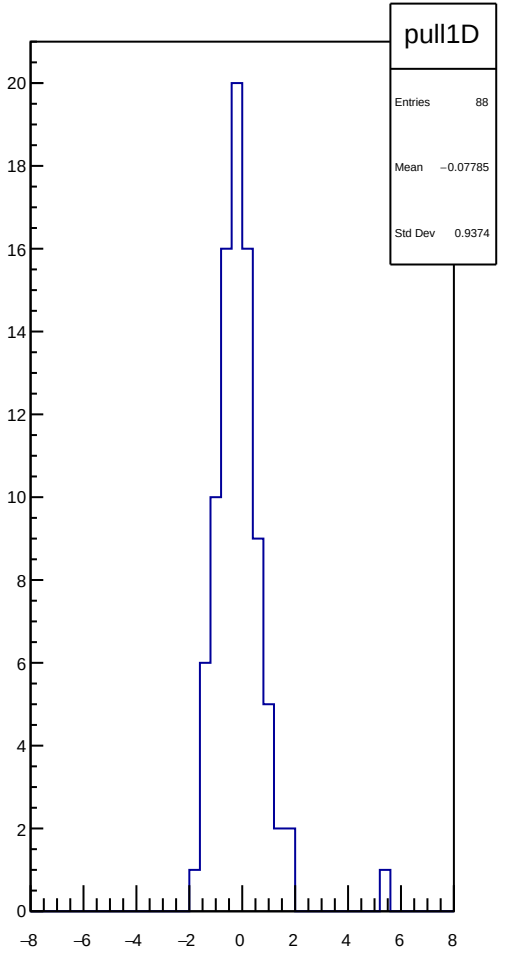

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.65 / 87
p0 −178.4 ± 4.7
−50
−100
−150
−200
−250
−300
pull
Entries 88
Mean −1282
Std Dev 1323
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

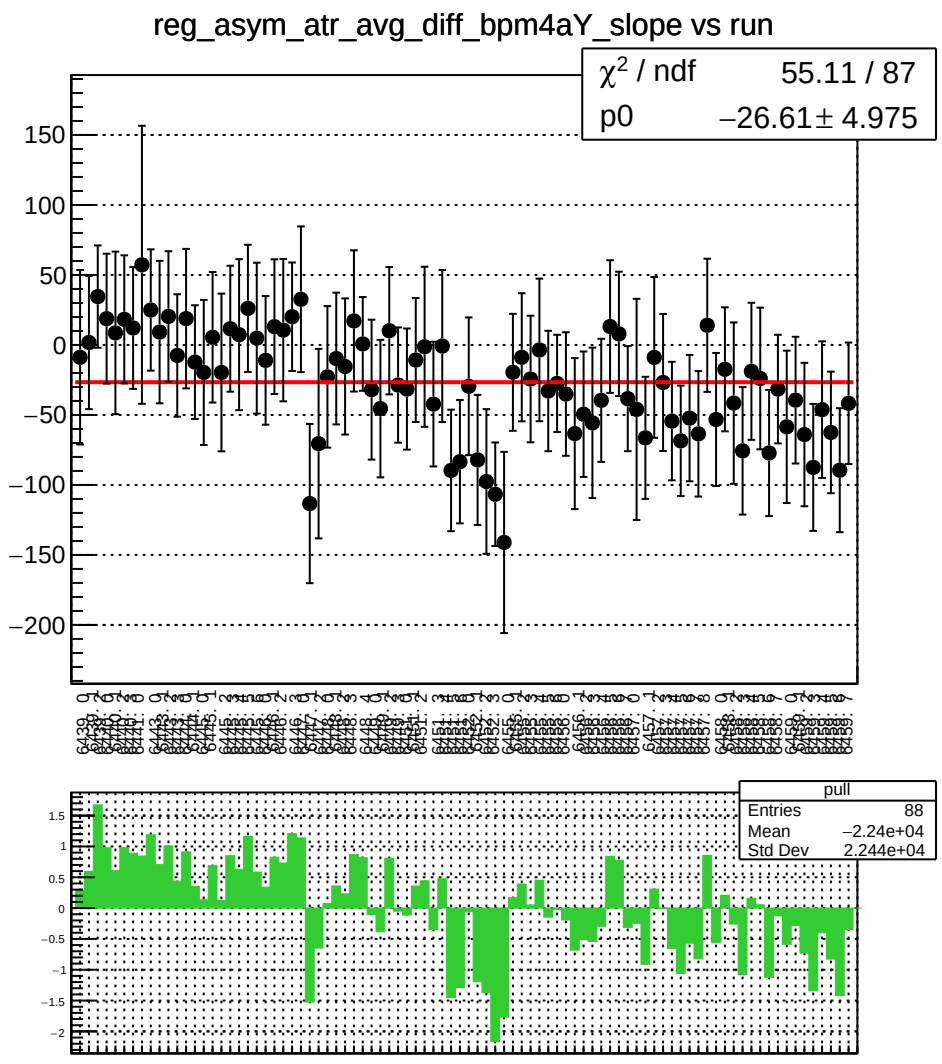

pull1D
Entries 88
Mean 0.0128
Std Dev 0.9332
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

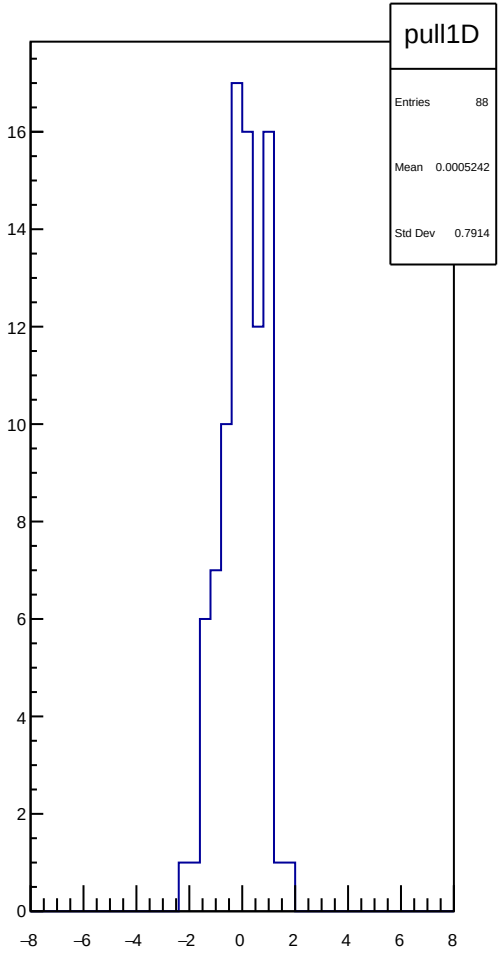

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 115.2 / 87
p0 147.6 ± 0.194
158
156
154
152
150
148
146
144
142
140
138
pull
Entries 88
Mean 951.4
Std Dev 917.8
4
3
2
1
0
−1
−2
−3

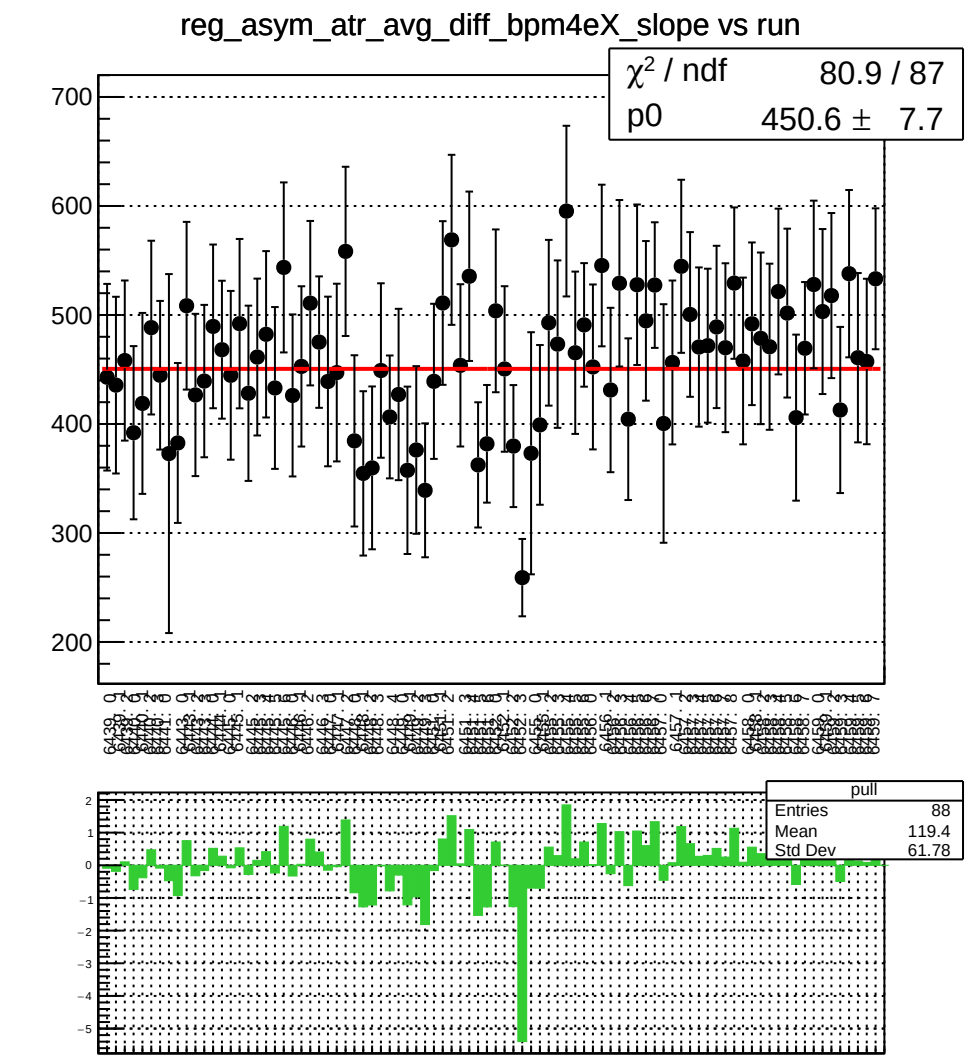

pull1D
Entries 88
Mean 0.01486
Std Dev 1.144
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

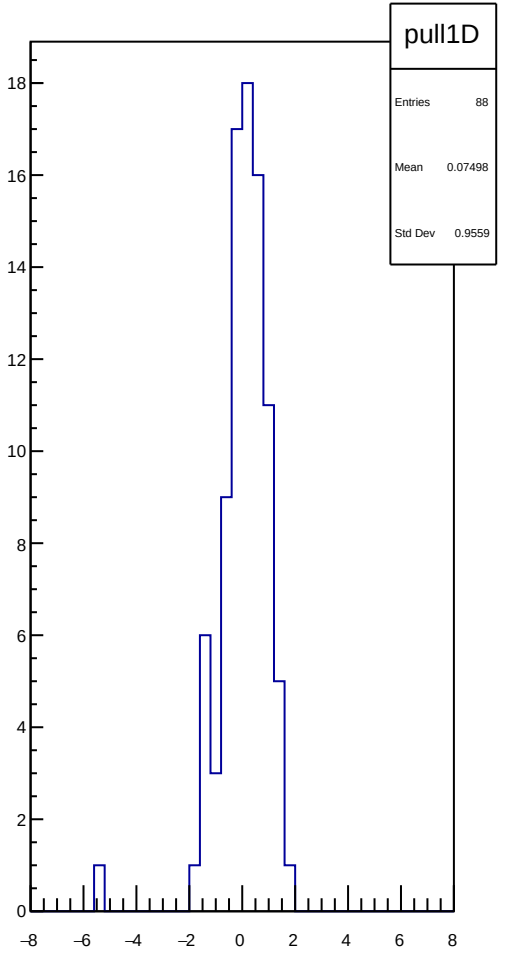

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 77.86 / 87
p0 −368.2 ± 7.09
pull
Entries 88
Mean 94.44
Std Dev 23.48

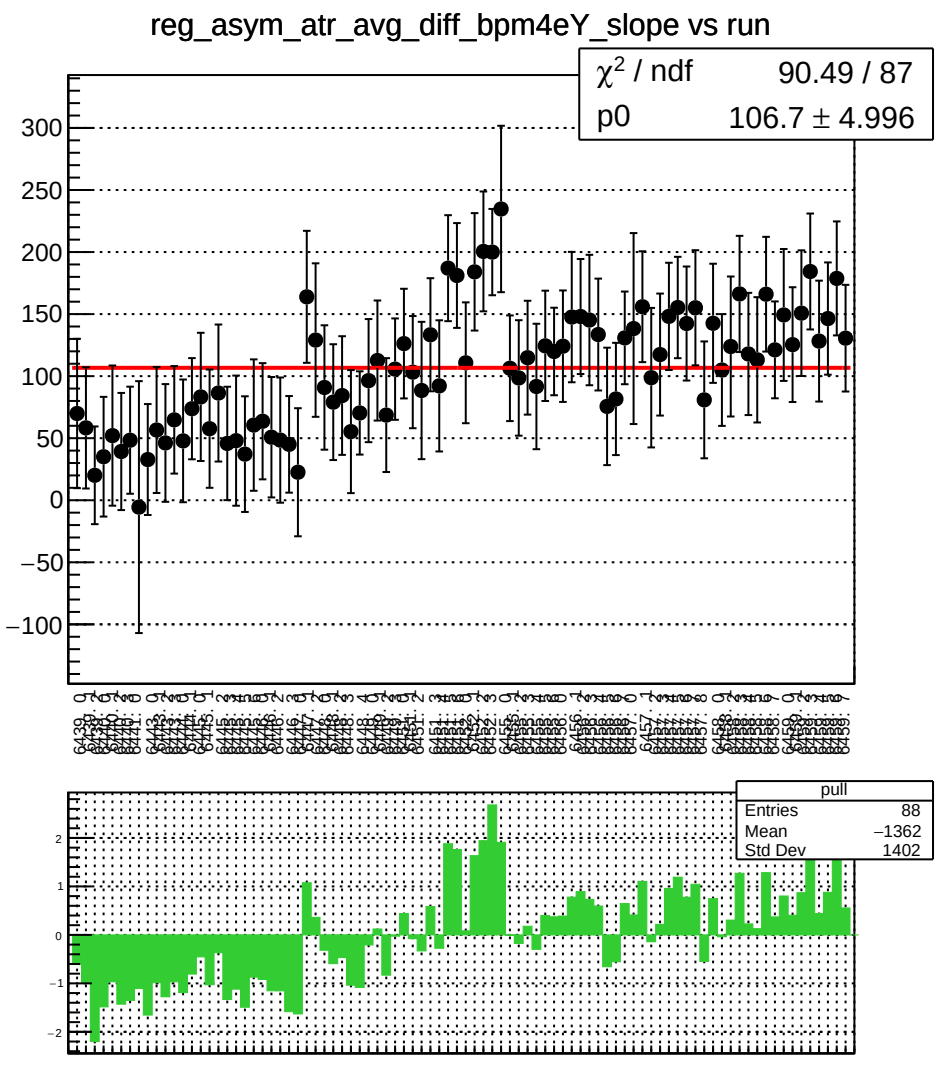

pull1D
Entries 88
Mean −0.07785
Std Dev 0.9374

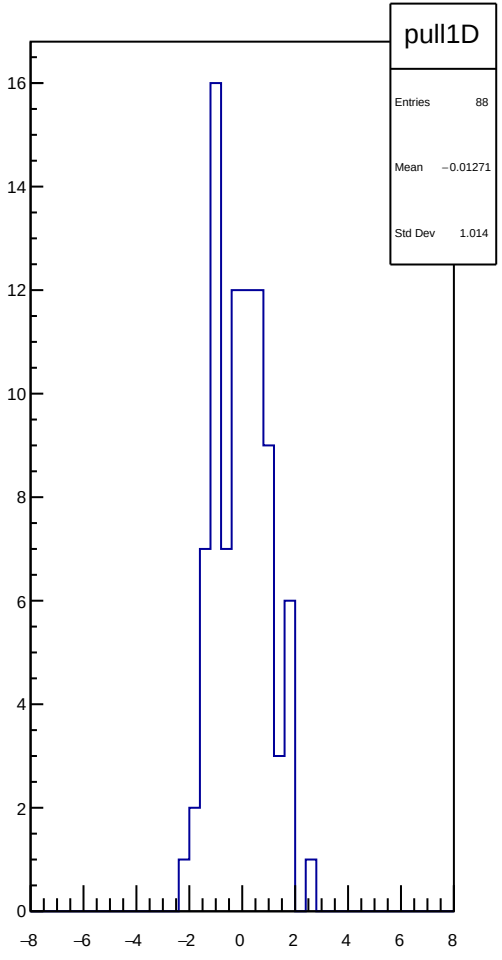

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 55.11 / 87
p0 −26.61 ± 4.975
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −2.24e+04
Std Dev 2.244e+04
1.5
1
0.5
0
−0.5
−1
−1.5
−2

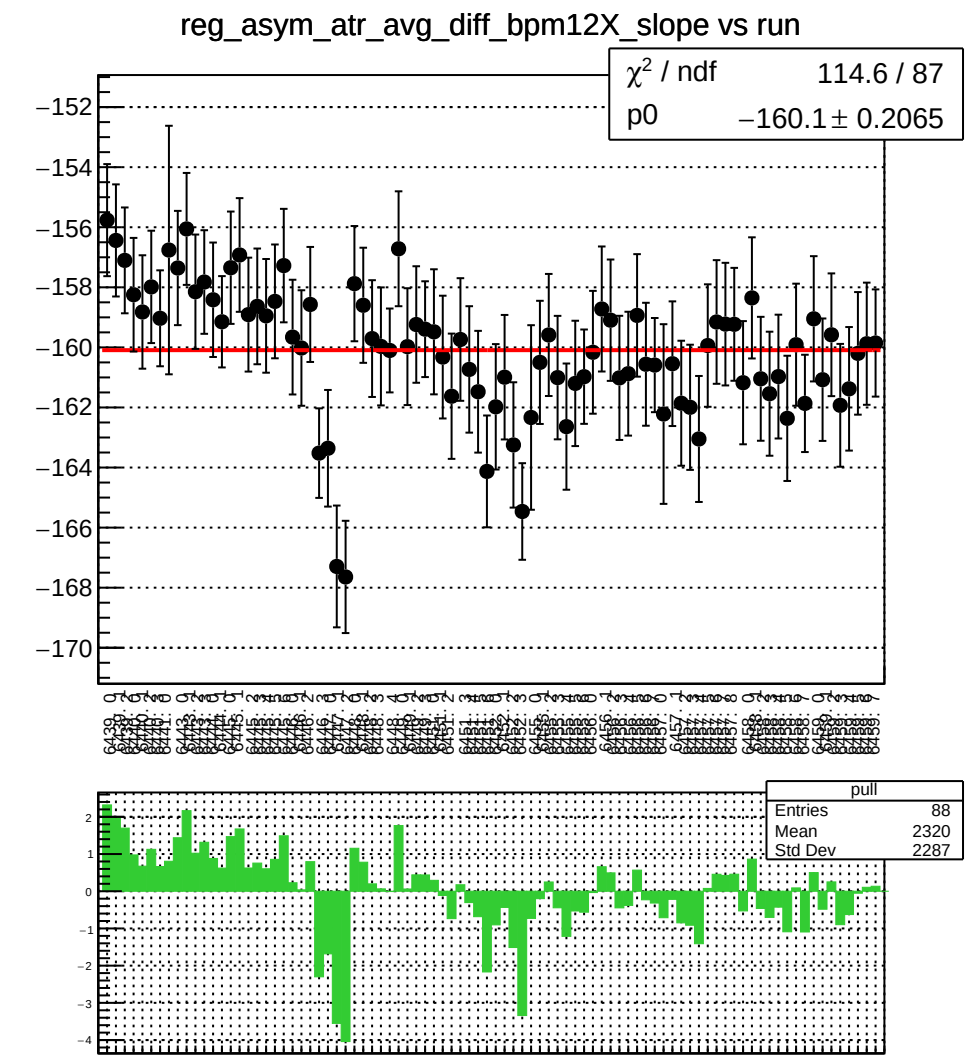

pull1D
Entries 88
Mean 0.0005242
Std Dev 0.7914
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

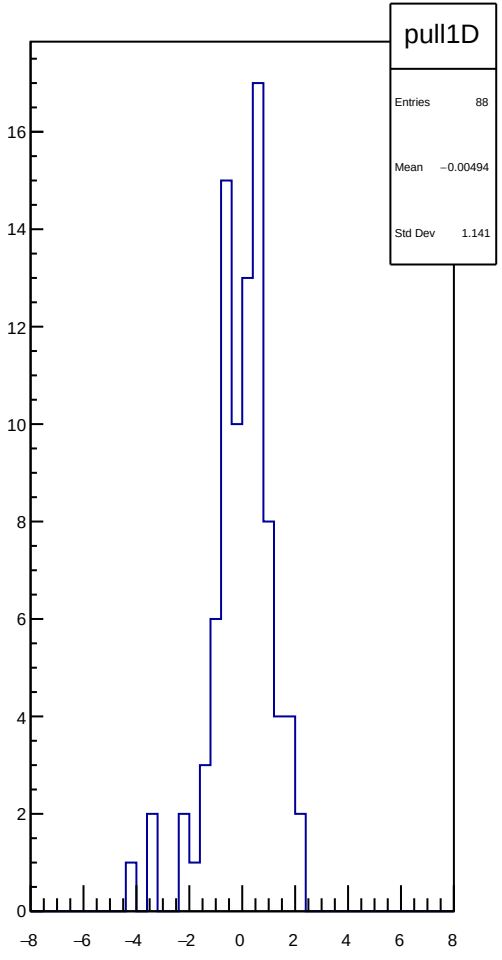

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.9 / 87
p0 450.6 ± 7.7
700
600
500
400
300
200
pull
Entries 88
Mean 119.4
Std Dev 61.78
2
1
0
−1
−2
−3
−4
−5

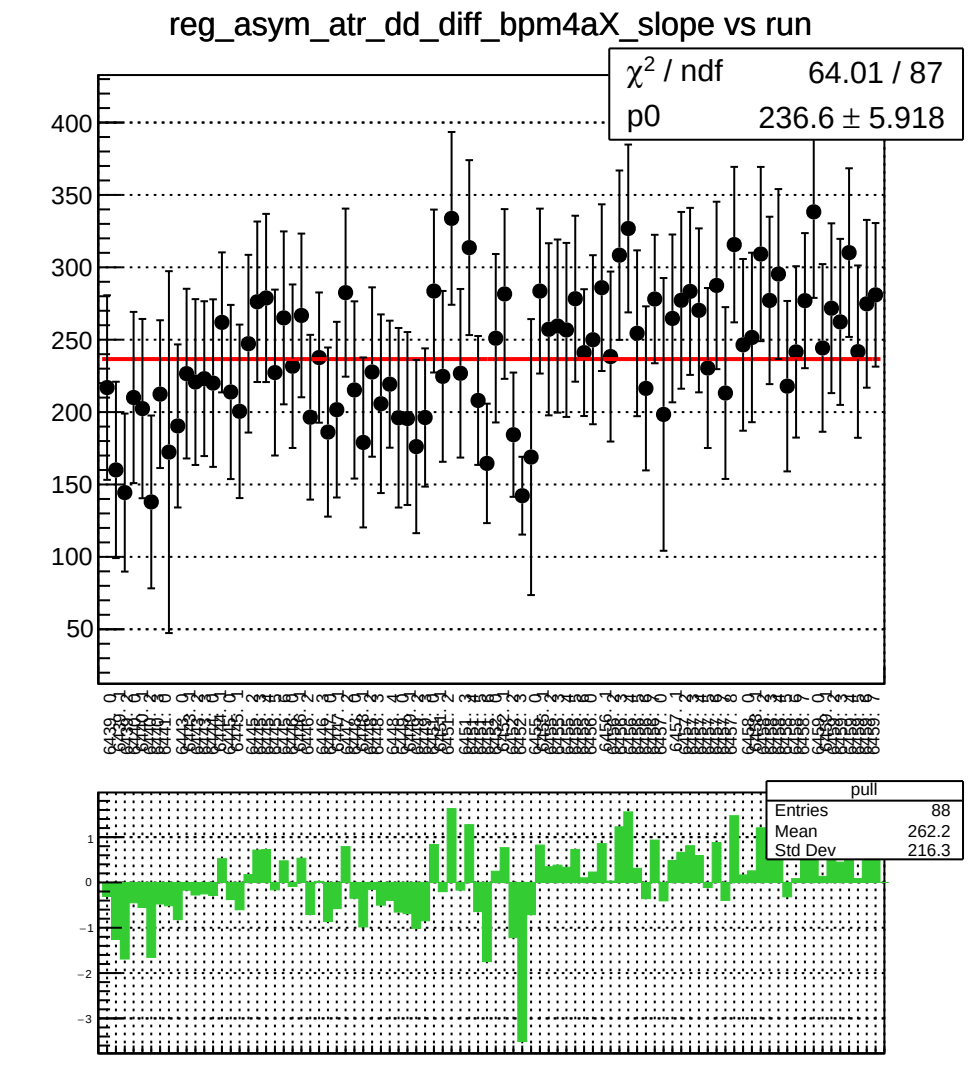

pull1D
Entries 88
Mean 0.07498
Std Dev 0.9559
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

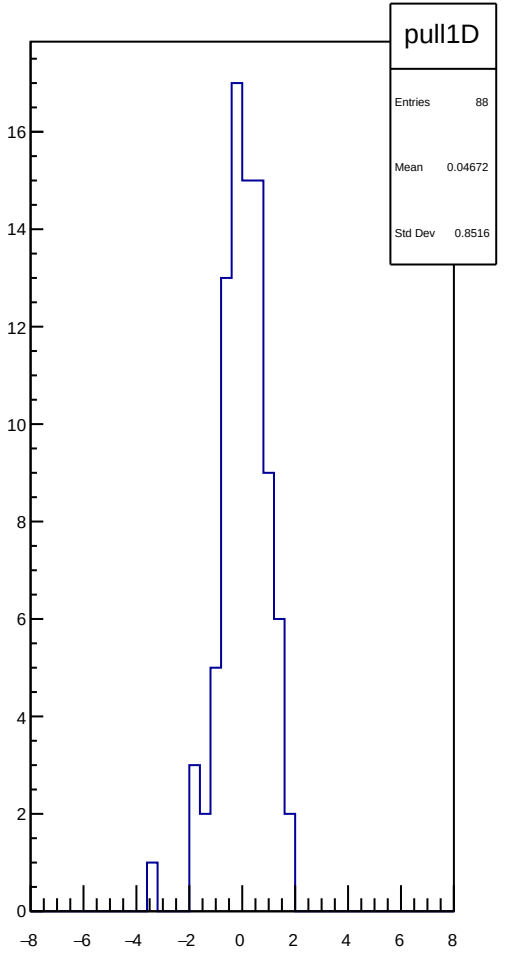

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 90.49 / 87
p0 106.7 ± 4.996
pull
Entries 88
Mean −1362
Std Dev 1402

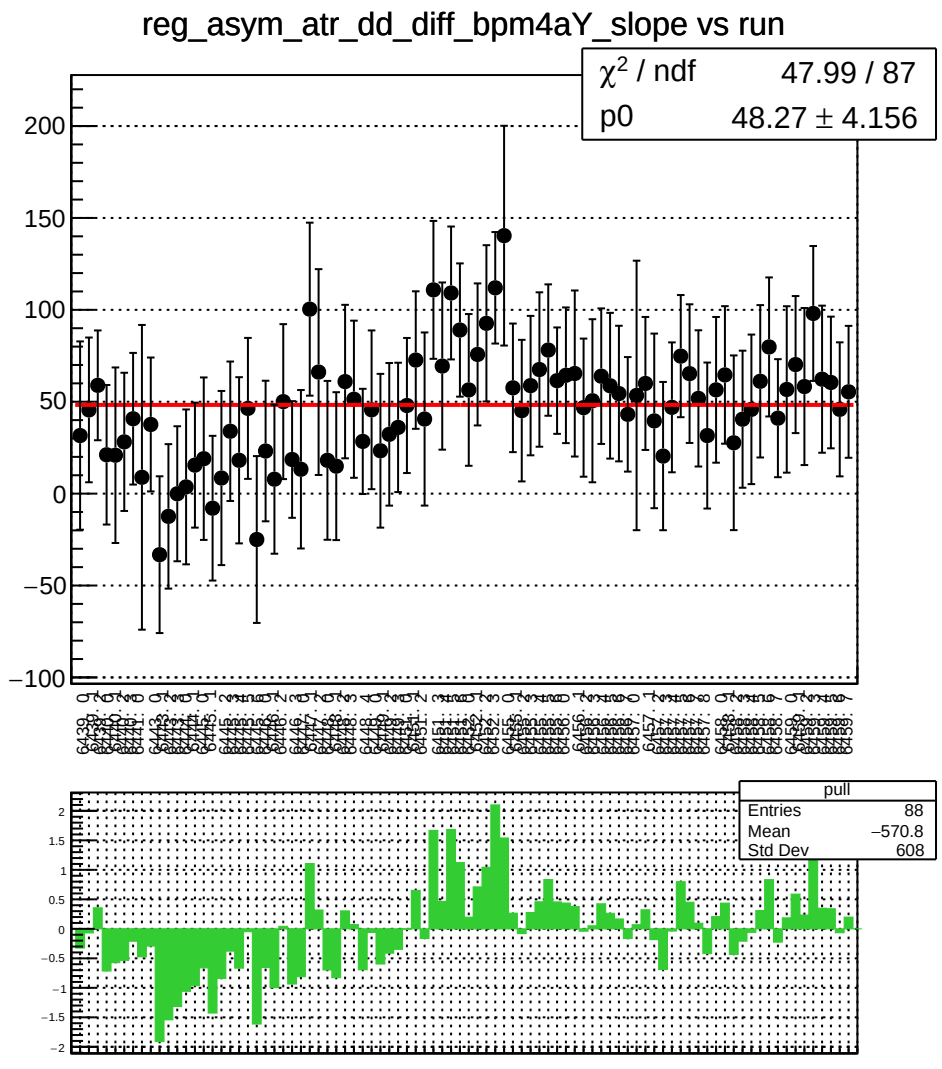

pull1D
Entries 88
Mean −0.01271
Std Dev 1.014

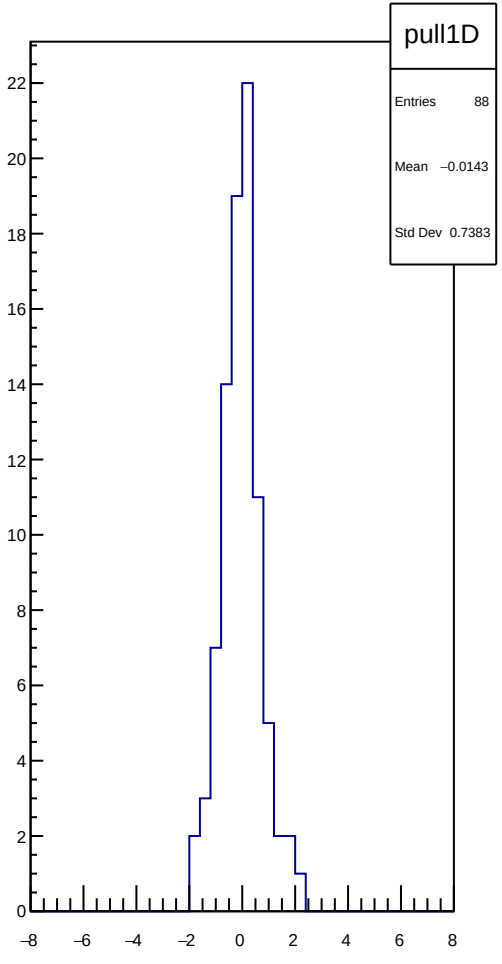

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 114.6 / 87
p0 −160.1 ± 0.2065
pull
Entries 88
Mean 2320
Std Dev 2287

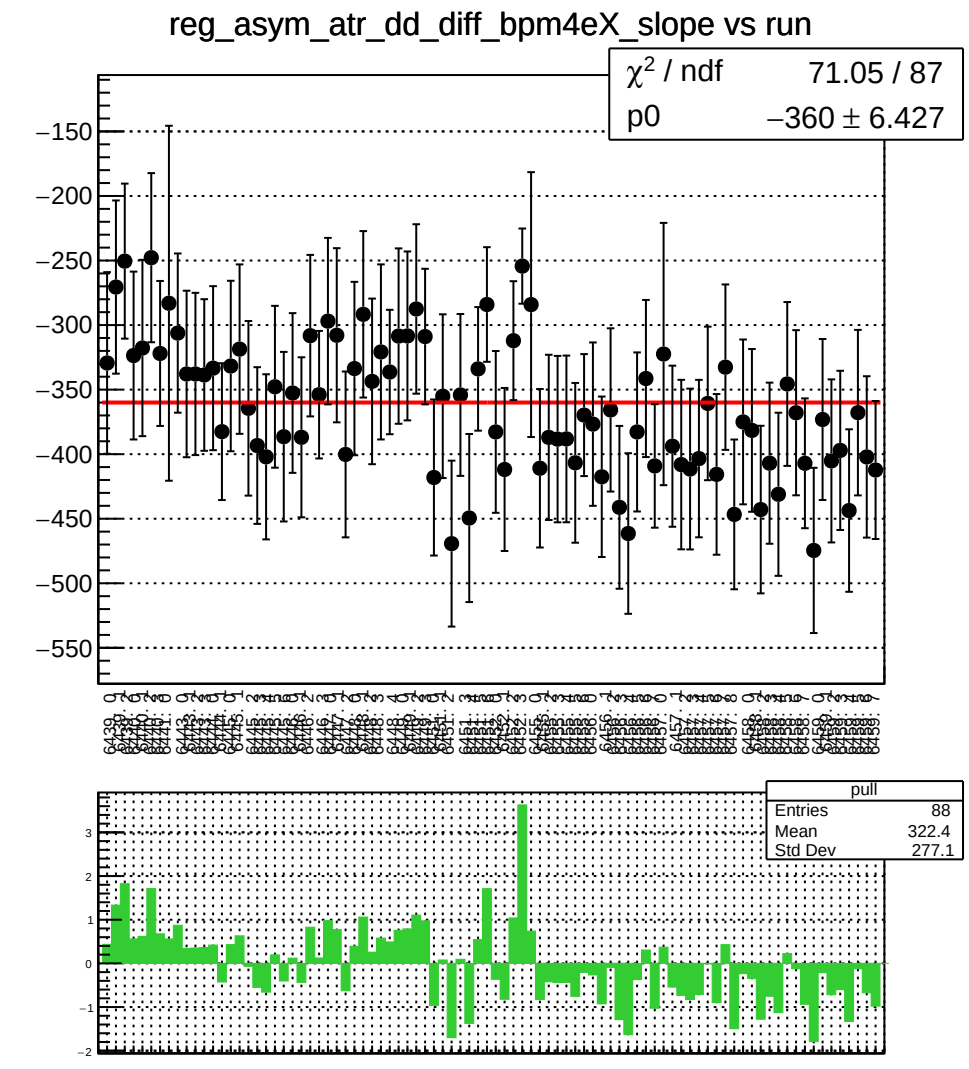

pull1D
Entries 88
Mean −0.00494
Std Dev 1.141

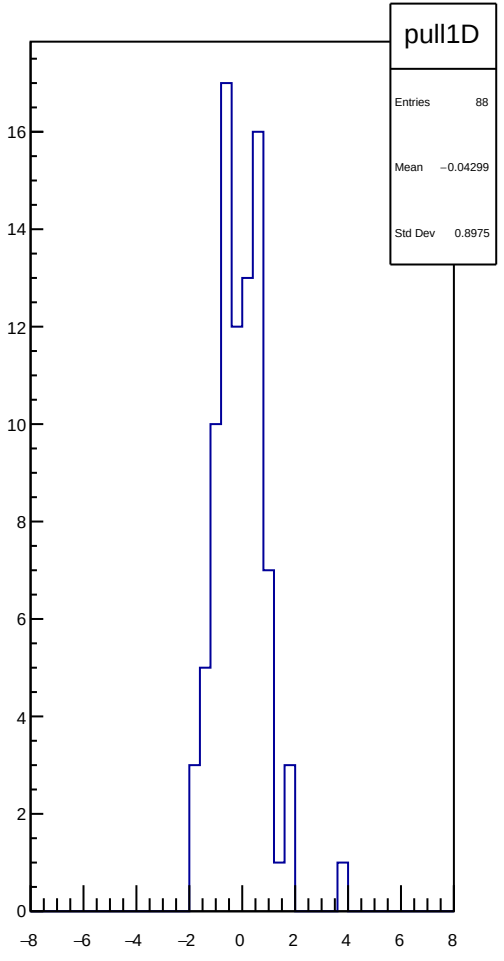

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 64.01 / 87
p0 236.6 ± 5.918
400
350
300
250
200
150
100
50
pull
Entries 88
Mean 262.2
Std Dev 216.3
1
0
−1
−2
−3

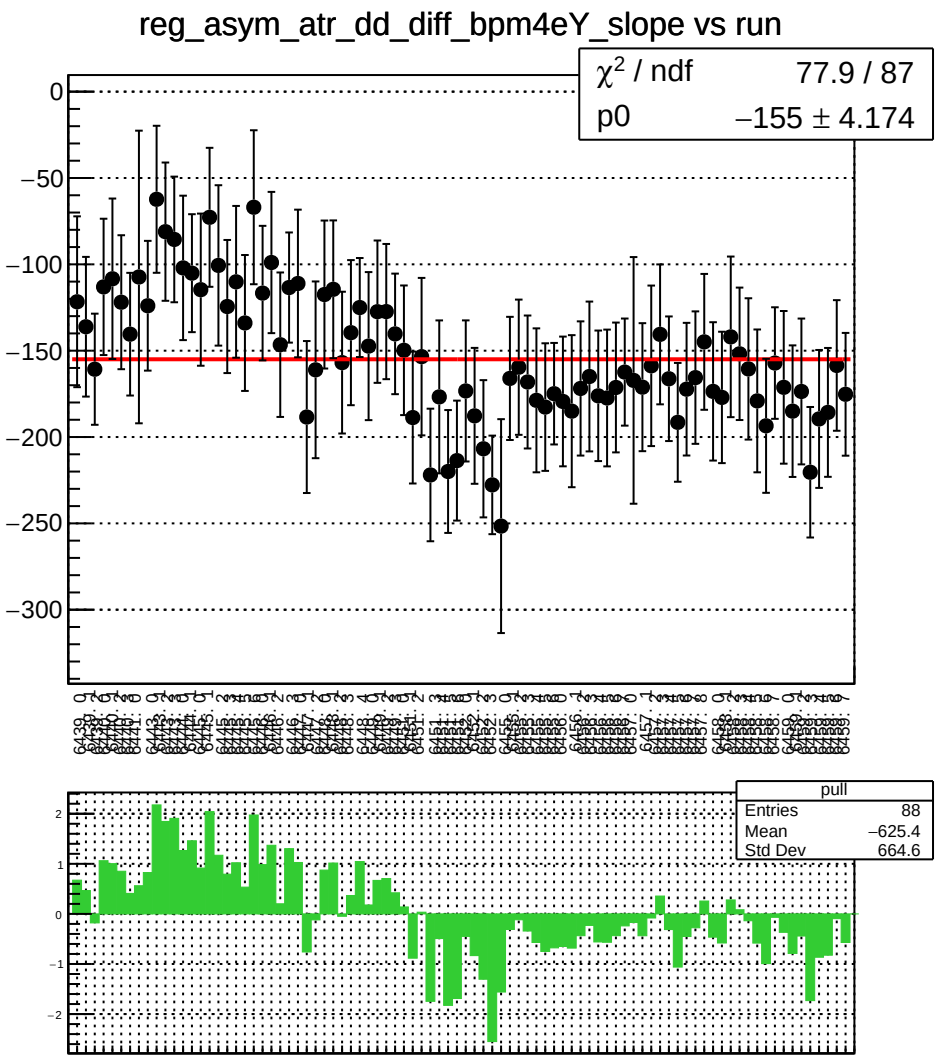

pull1D
Entries 88
Mean 0.04672
Std Dev 0.8516
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

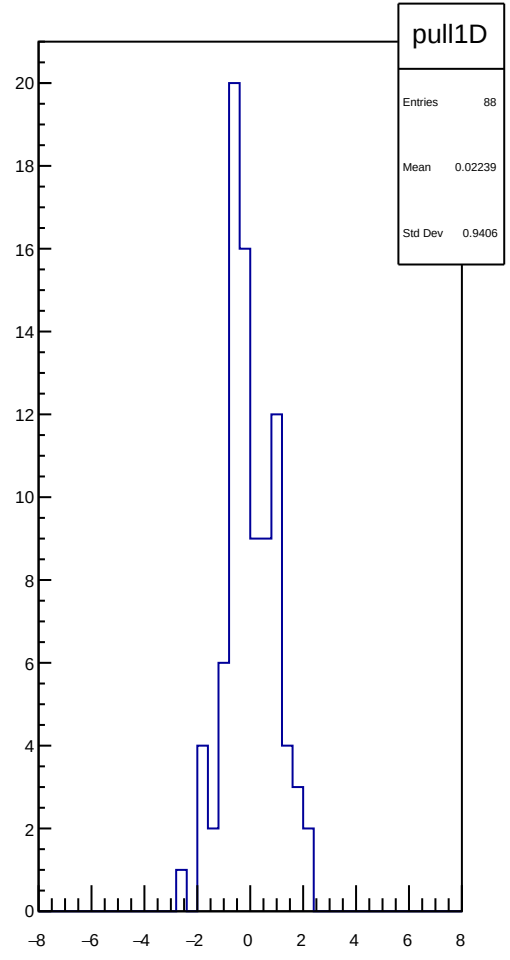

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.99 / 87
p0 48.27 ± 4.156
pull
Entries 88
Mean −570.8
Std Dev 608

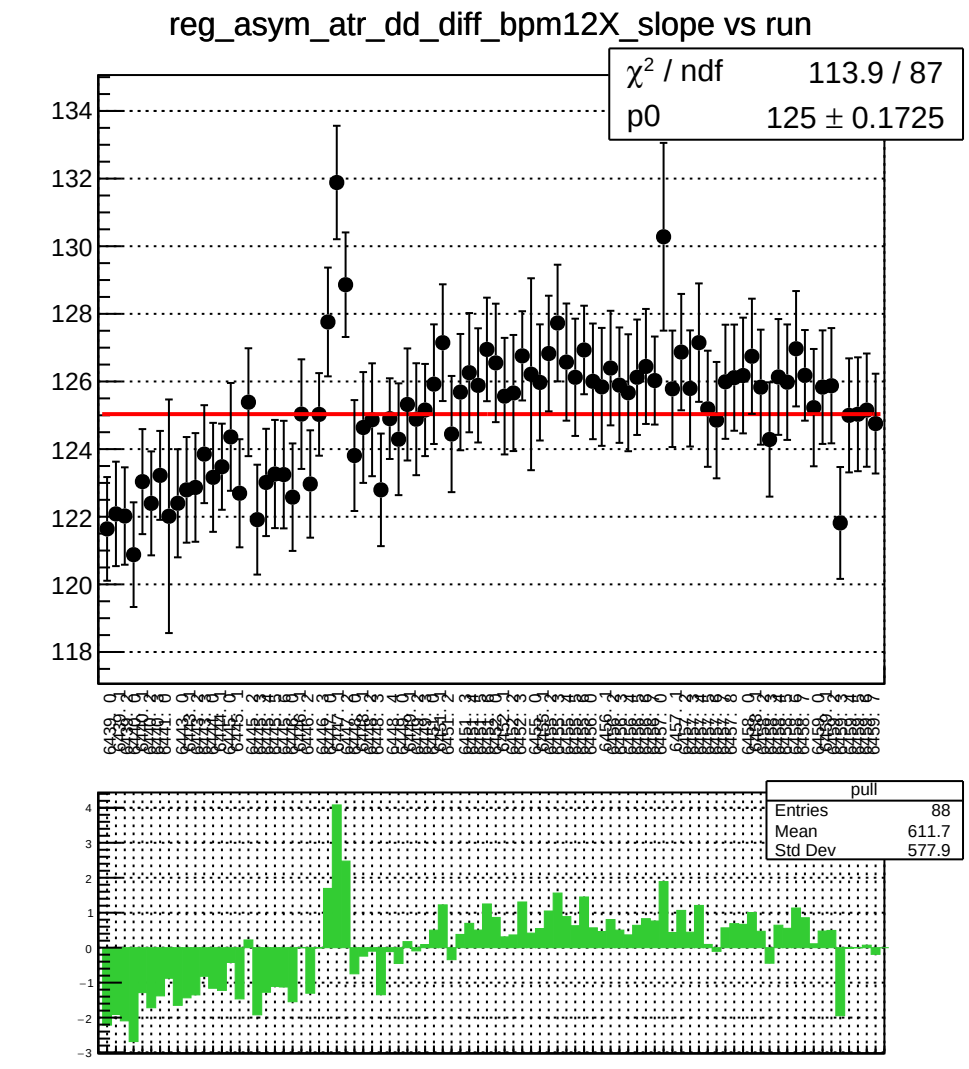

pull1D
Entries 88
Mean −0.0143
Std Dev 0.7383

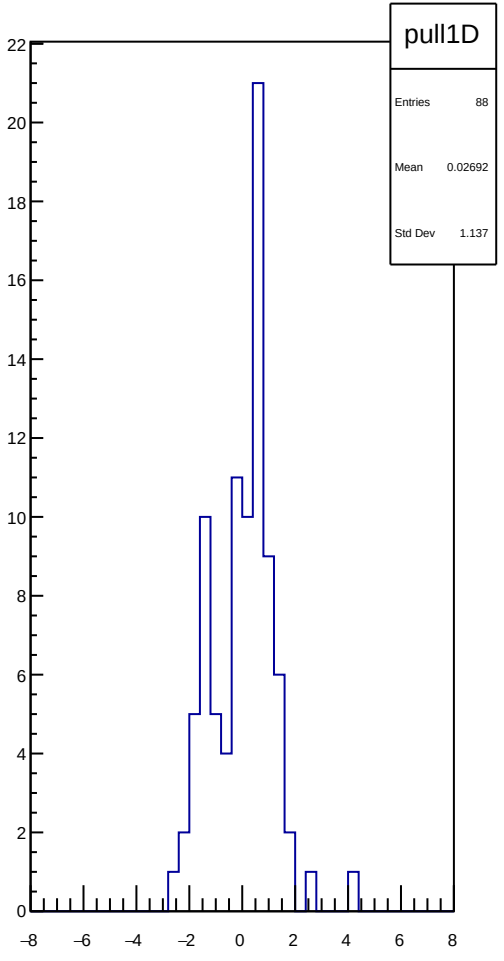

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.05 / 87
p0 −360 ± 6.427
pull
Entries 88
Mean 322.4
Std Dev 277.1

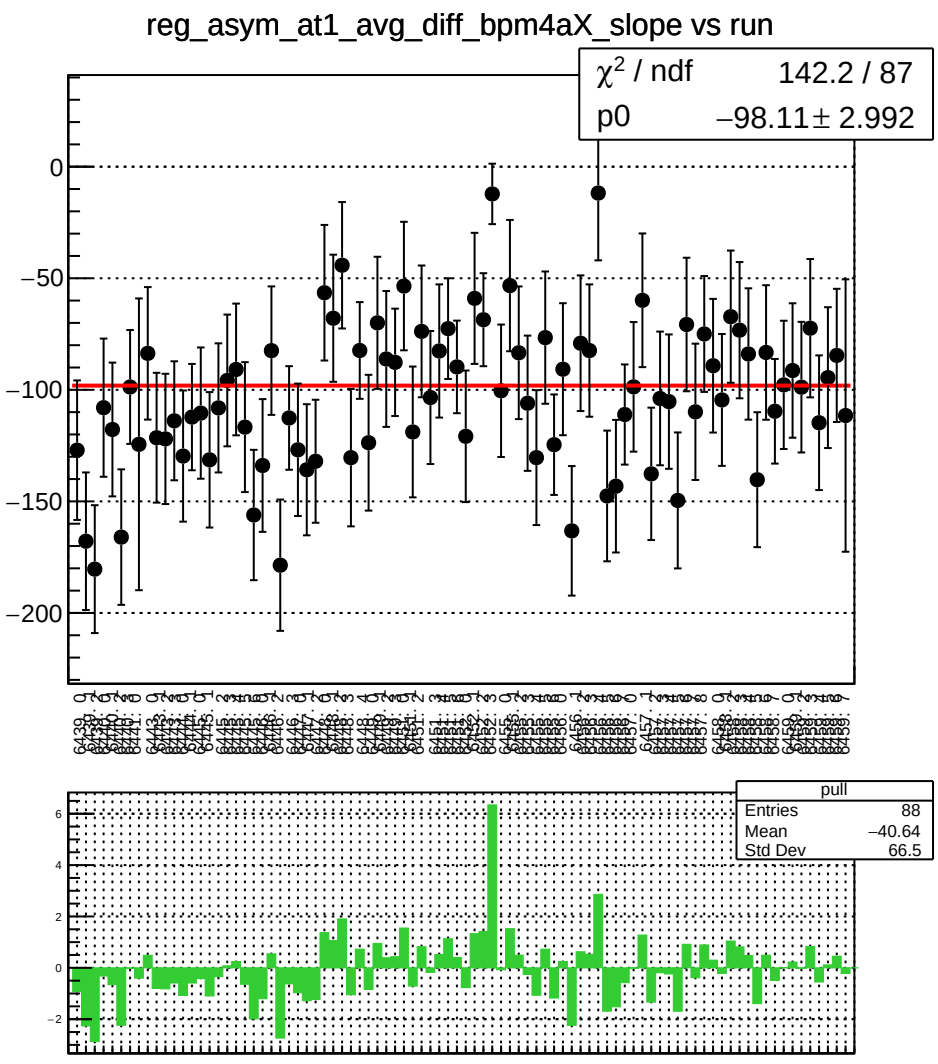

pull1D
Entries 88
Mean −0.04299
Std Dev 0.8975

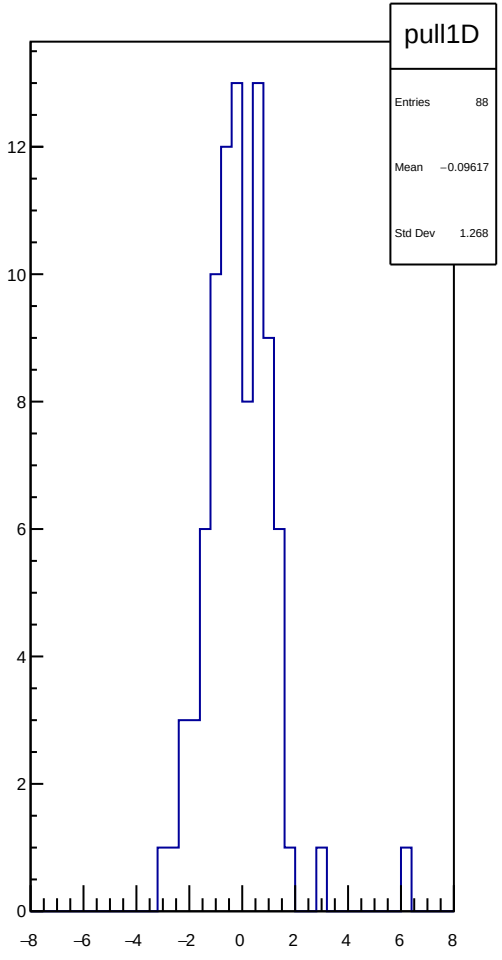

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.9 / 87
p0 −155 ± 4.174
0
−50
−100
−150
−200
−250
−300
pull
Entries 88
Mean −625.4
Std Dev 664.6
2
1
0
−1
−2

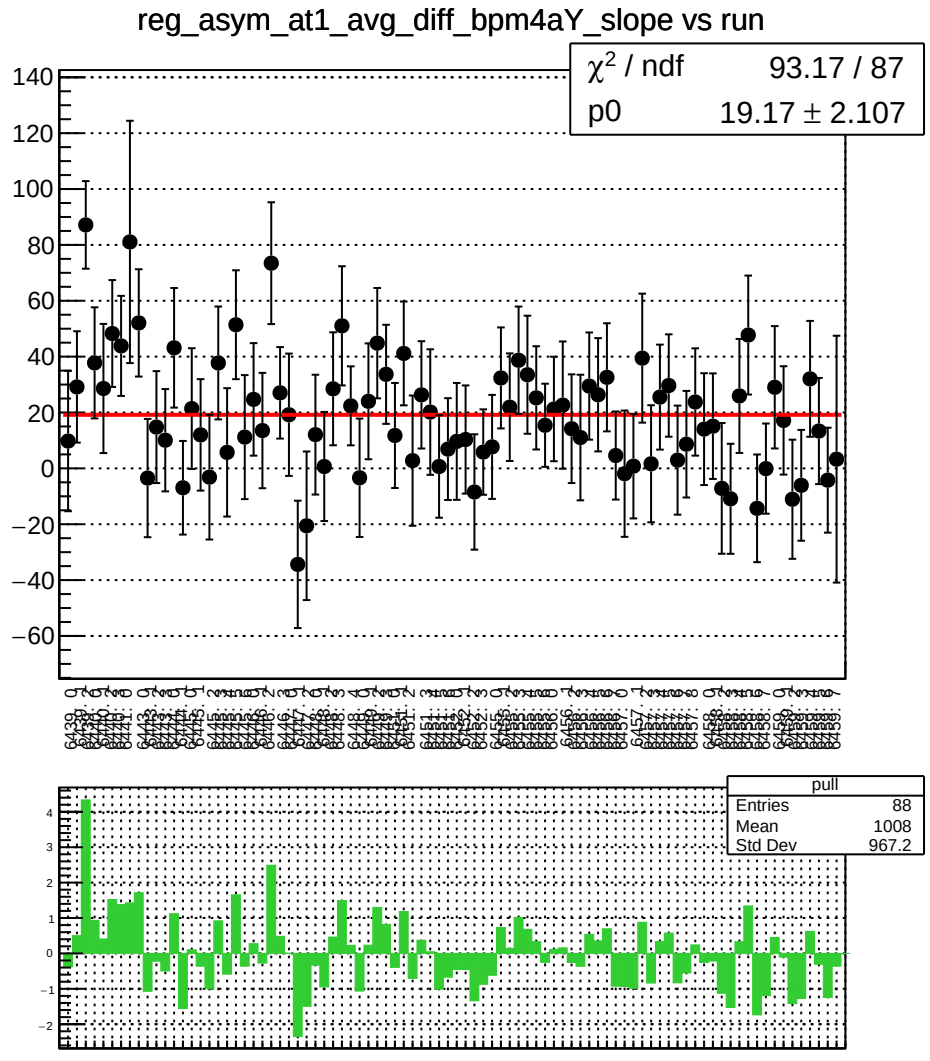

pull1D
Entries 88
Mean 0.02239
Std Dev 0.9406
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

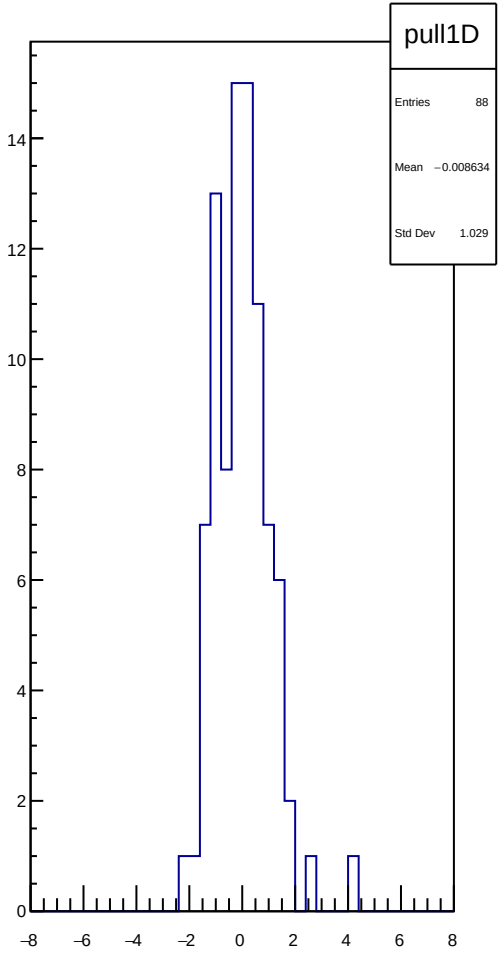

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 113.9 / 87
p0 125 ± 0.1725
pull
Entries 88
Mean 611.7
Std Dev 577.9

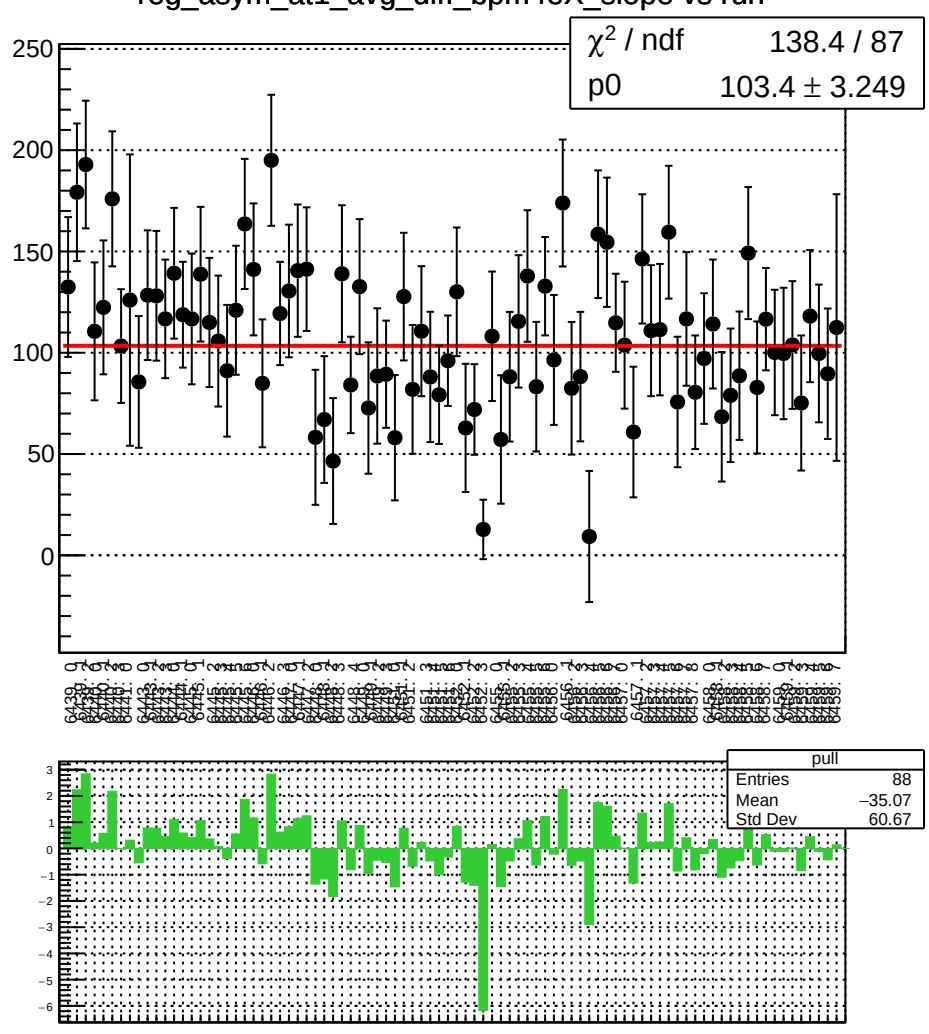

pull1D
Entries 88
Mean 0.02692
Std Dev 1.137

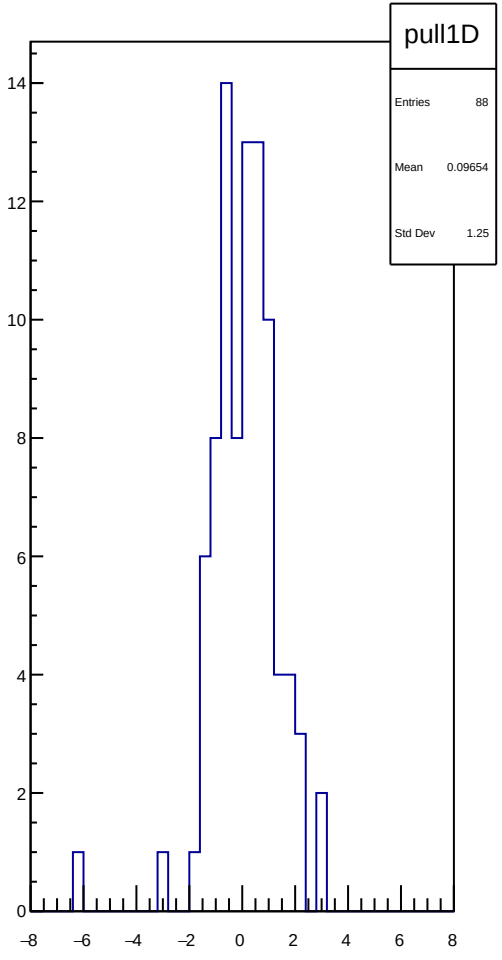

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 142.2 / 87
p0 −98.11 ± 2.992
0
−50
−100
−150
−200
pull
Entries 88
Mean −40.64
Std Dev 66.5
6
4
2
0
−2

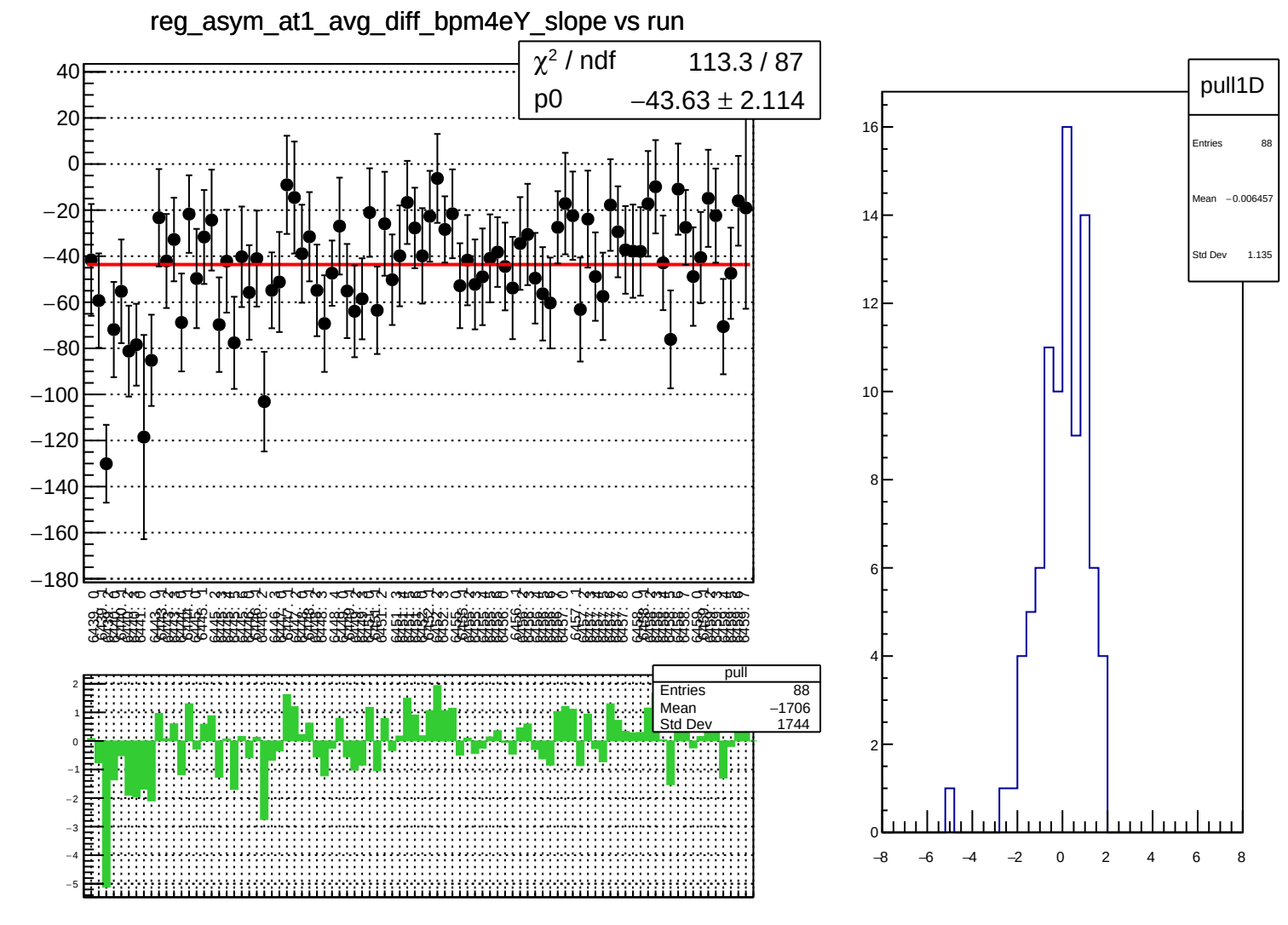

pull1D
Entries 88
Mean −0.09617
Std Dev 1.268
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

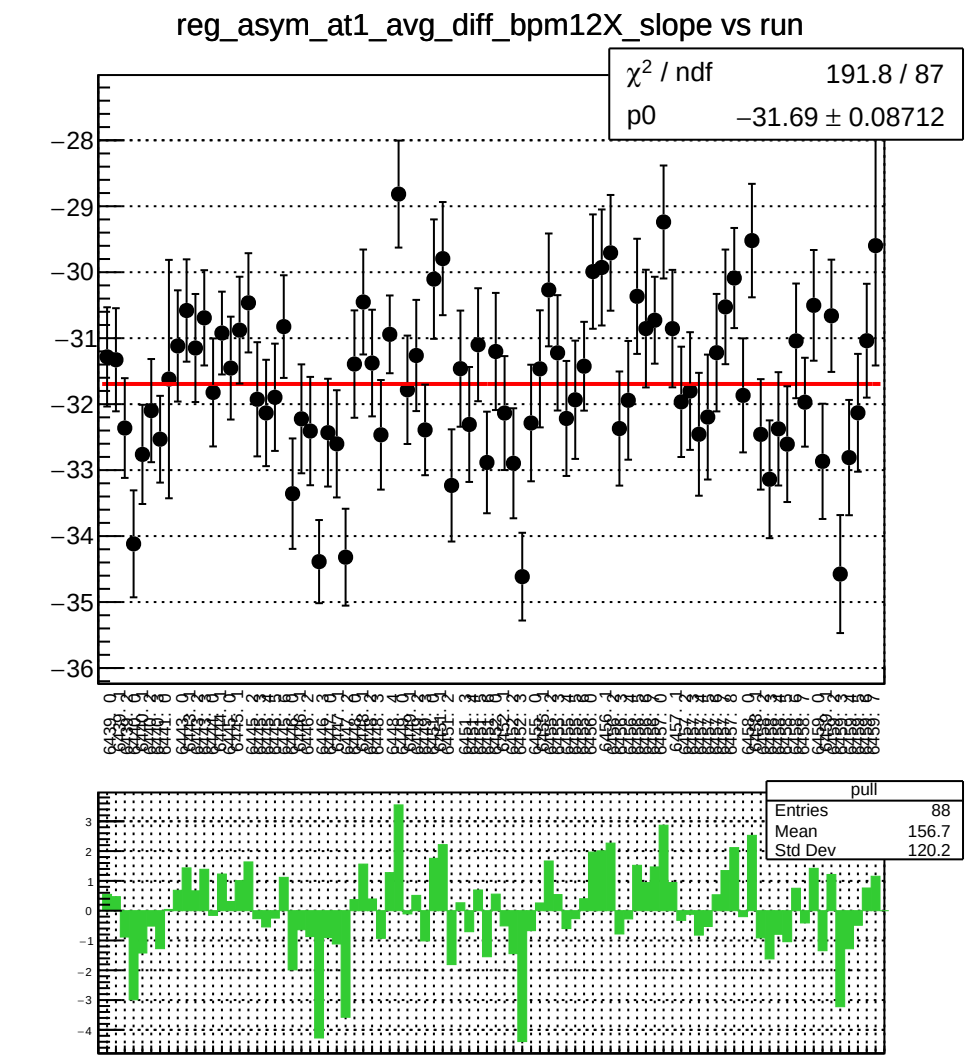

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 93.17 / 87
p0 19.17 ± 2.107
pull
Entries 88
Mean 1008
Std Dev 967.2

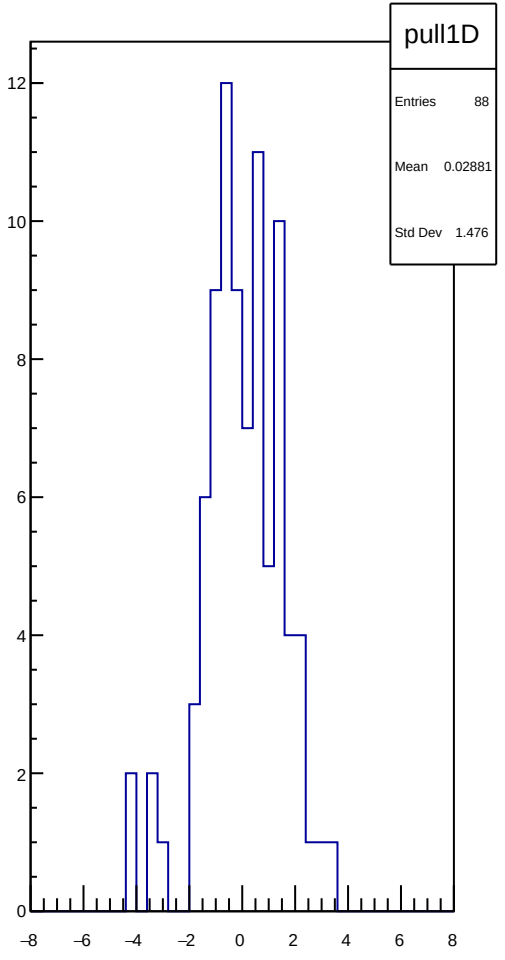

pull1D
Entries 88
Mean −0.008634
Std Dev 1.029

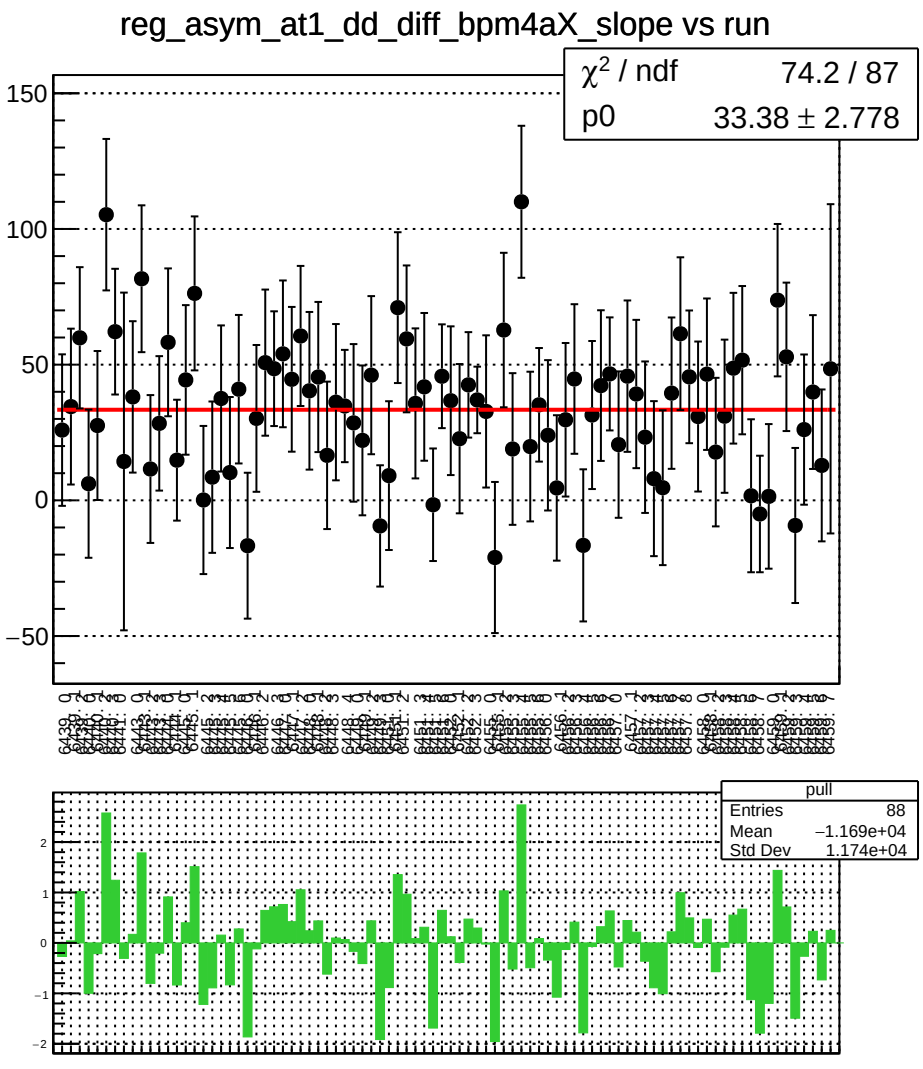

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 138.4 / 87
p0 103.4 ± 3.249
pull
Entries 88
Mean −35.07
Std Dev 60.67

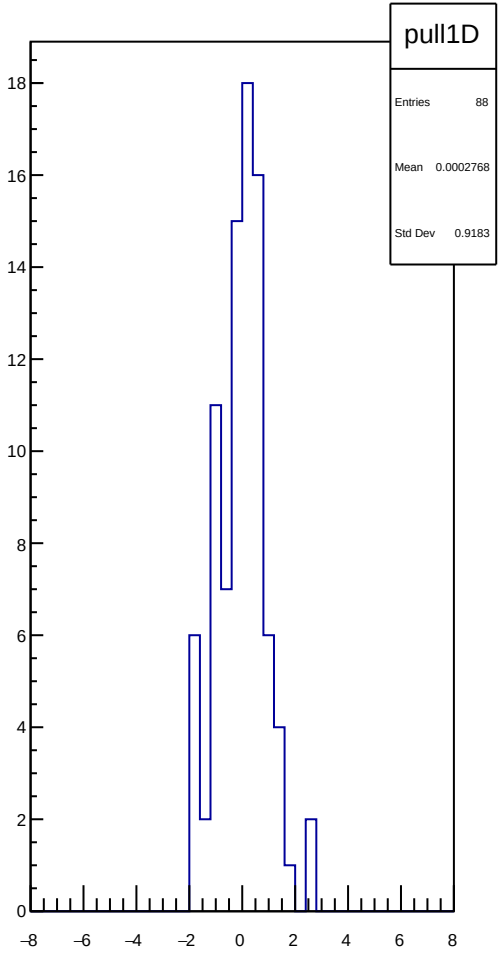

pull1D
Entries 88
Mean 0.09654
Std Dev 1.25

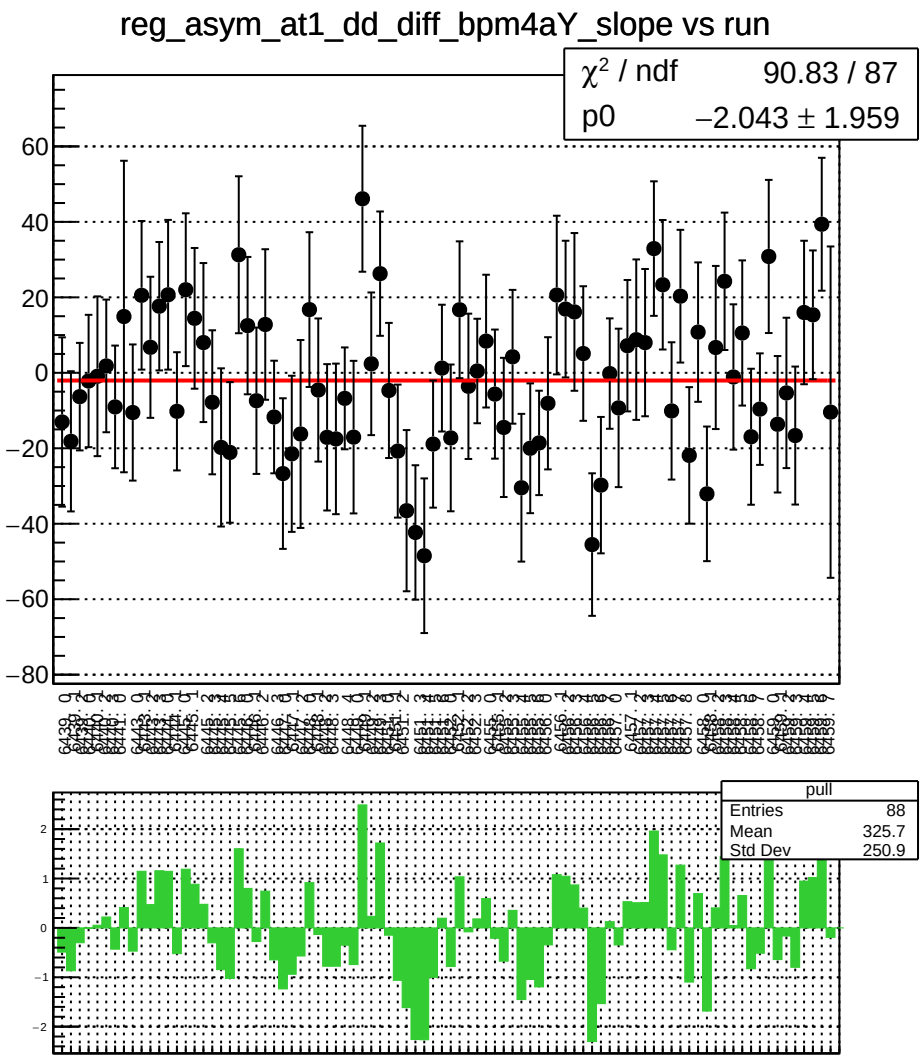

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 113.3 / 87
p0 −43.63 ± 2.114
pull
Entries 88
Mean −1706
Std Dev 1744
pull1D
Entries 88
Mean −0.006457
Std Dev 1.135

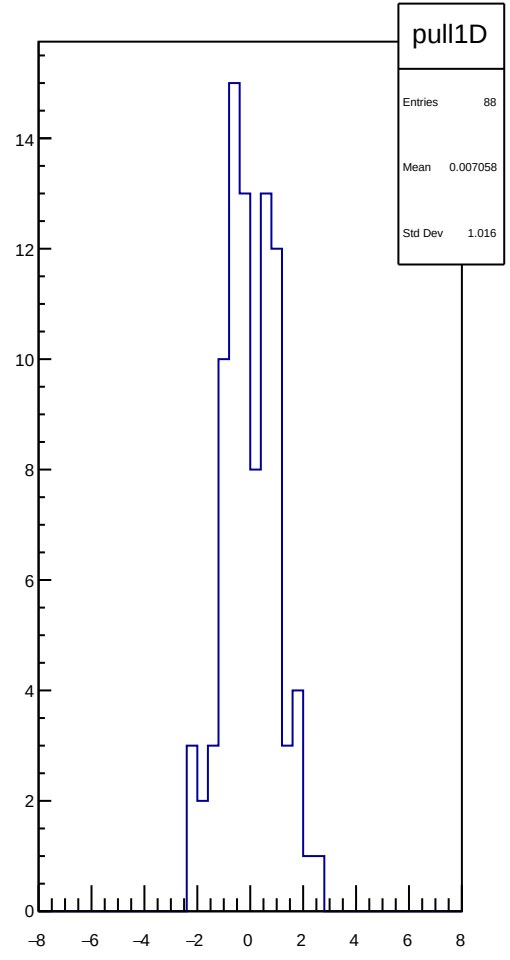

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 191.8 / 87
p0 −31.69 ± 0.08712
pull
Entries 88
Mean 156.7
Std Dev 120.2

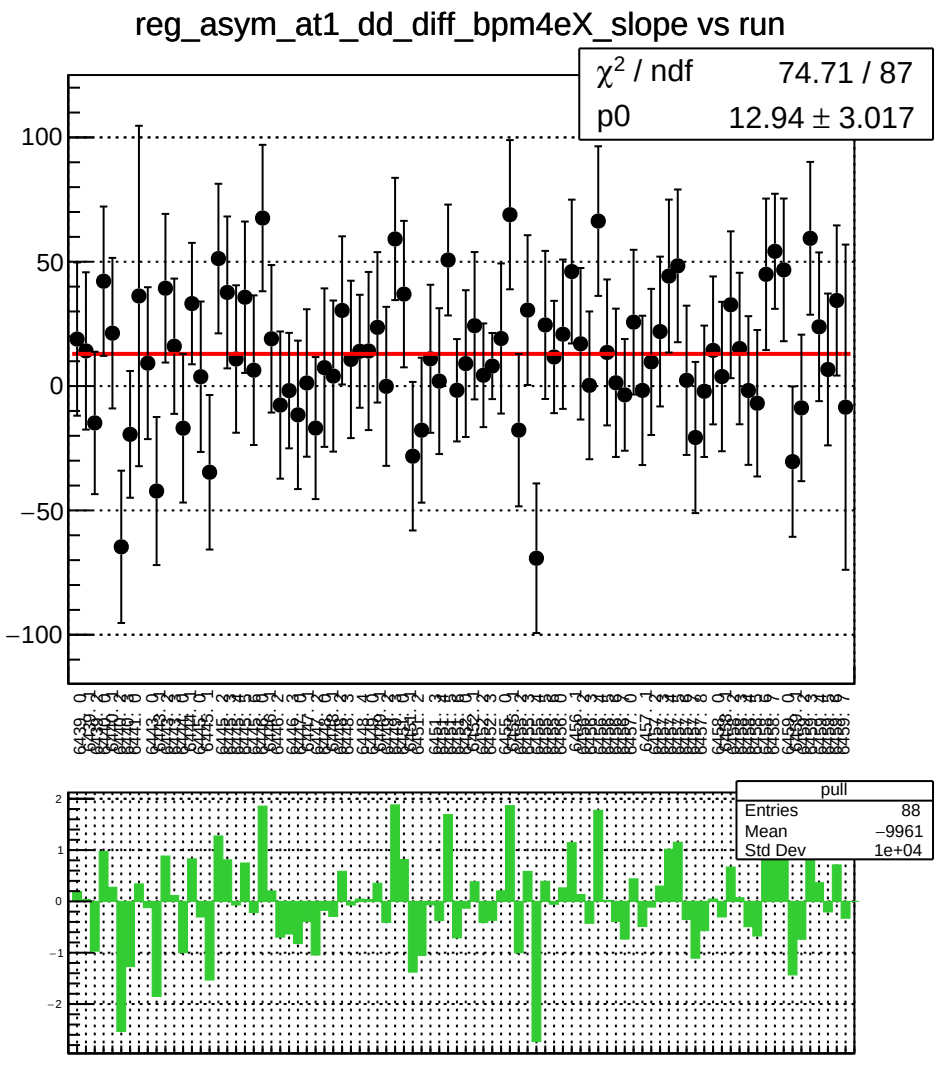

pull1D
Entries 88
Mean 0.02881
Std Dev 1.476

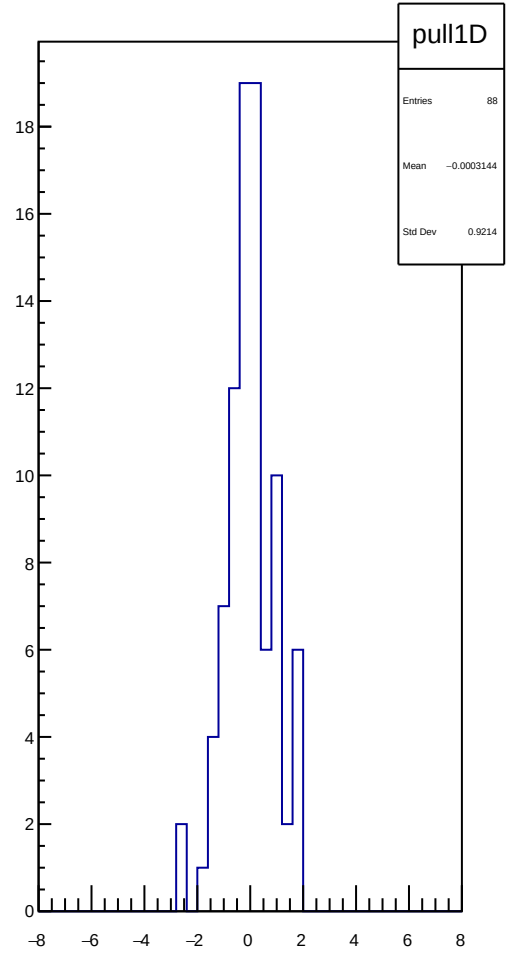

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 74.2 / 87
p0 33.38 ± 2.778
150
100
50
0
−50
pull
Entries 88
Mean −1.169e+04
Std Dev 1.174e+04
2
1
0
−1
−2

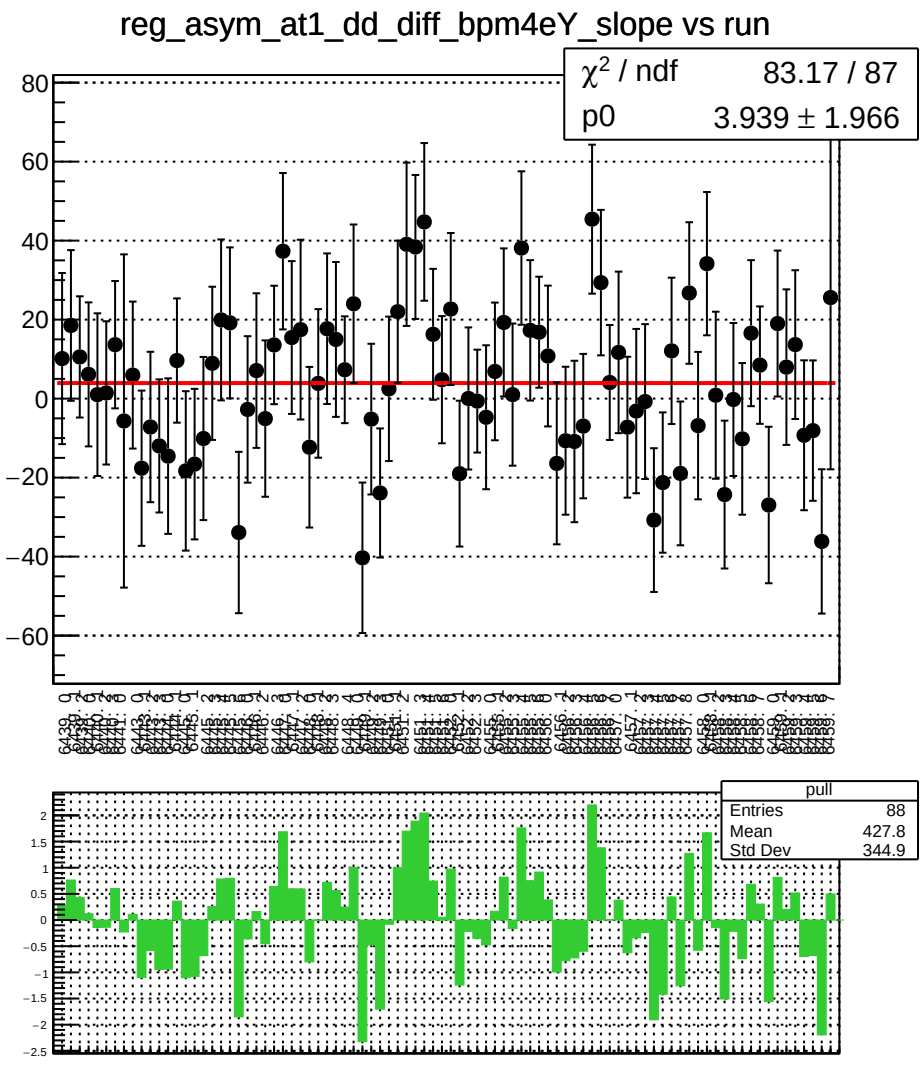

pull1D
Entries 88
Mean 0.0002768
Std Dev 0.9183
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

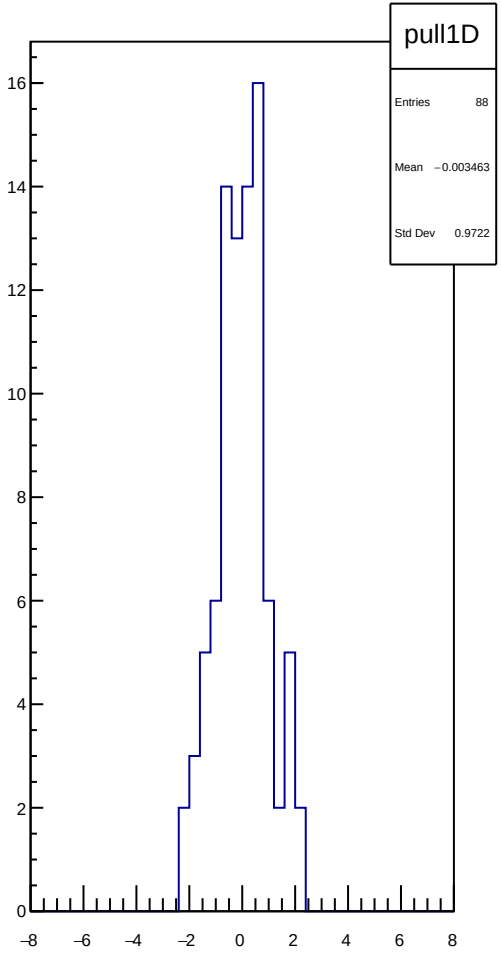

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 90.83 / 87
p0 −2.043 ± 1.959
pull
Entries 88
Mean 325.7
Std Dev 250.9

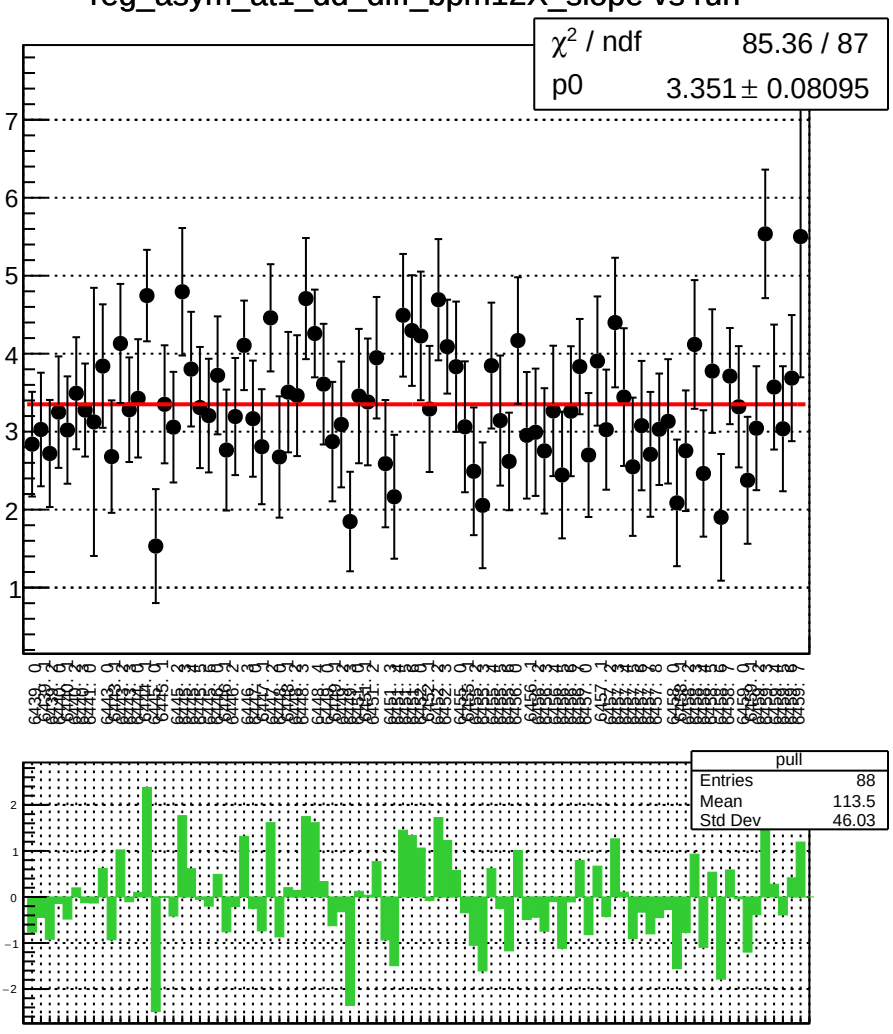

pull1D
Entries 88
Mean 0.007058
Std Dev 1.016

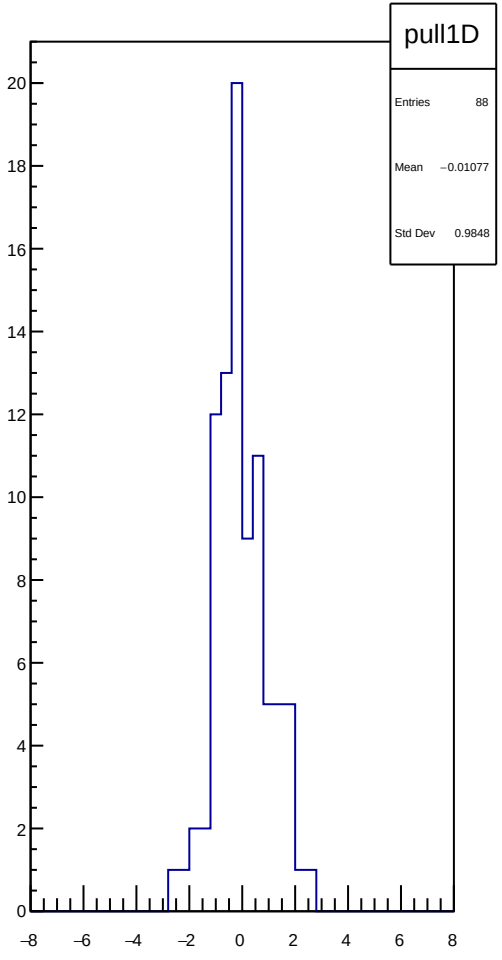

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.71 / 87
p0 12.94 ± 3.017
100
50
0
−50
−100
pull
Entries 88
Mean −9961
Std Dev 1e+04
2
1
0
−1
−2

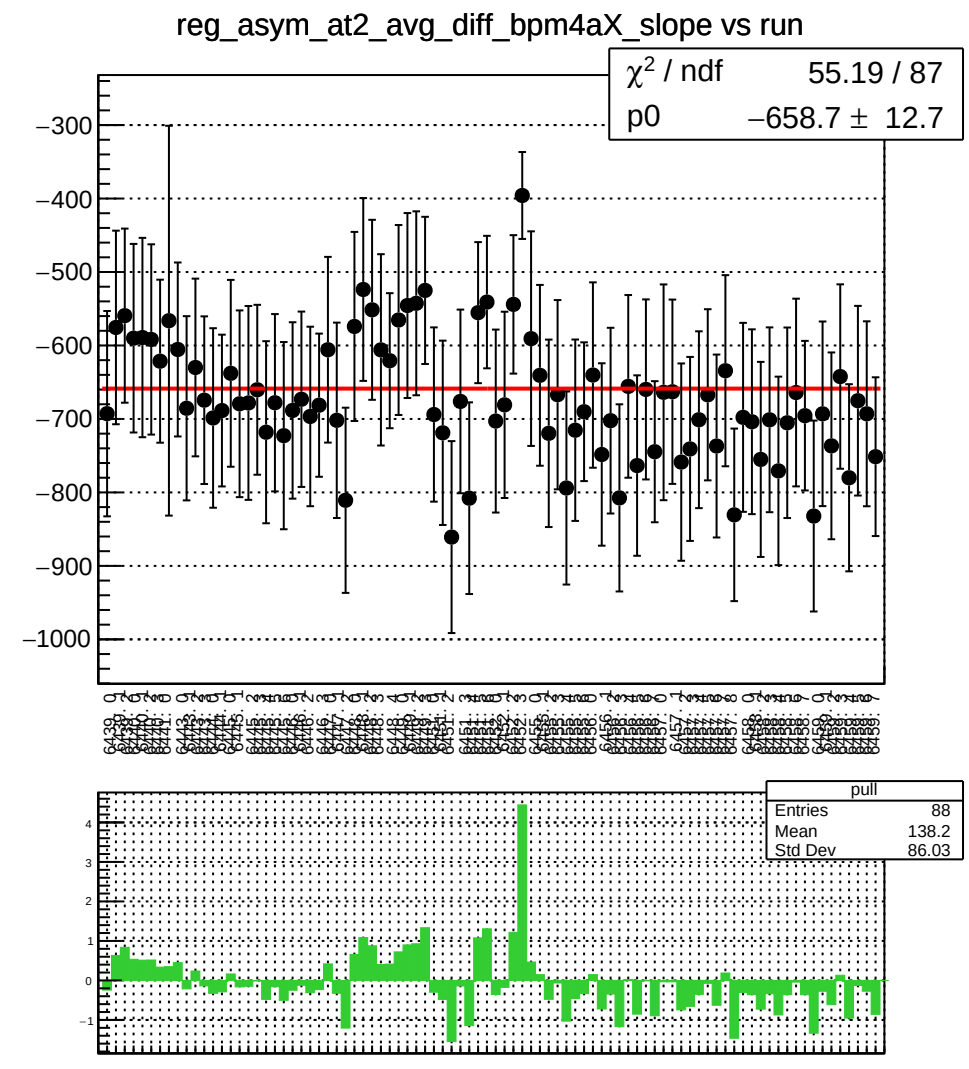

pull1D
Entries 88
Mean −0.0003144
Std Dev 0.9214
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

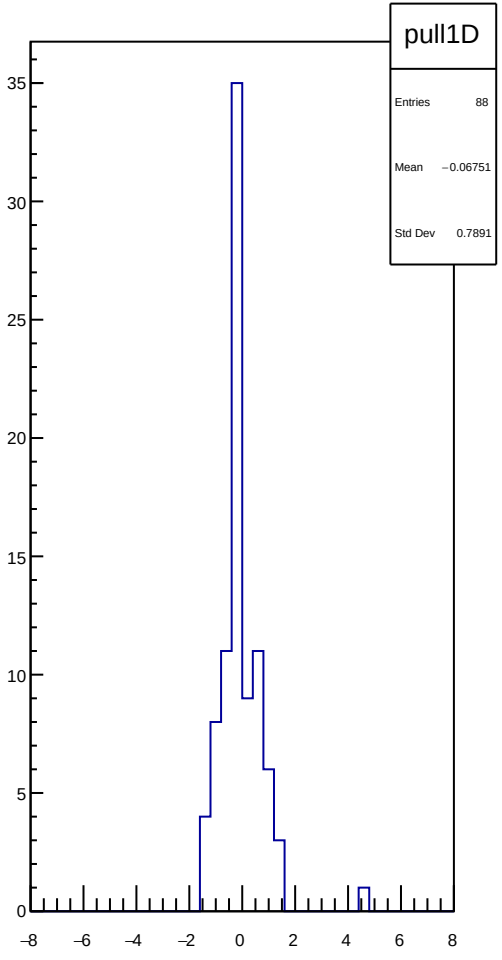

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.17 / 87
p0 3.939 ± 1.966
pull
Entries 88
Mean 427.8
Std Dev 344.9

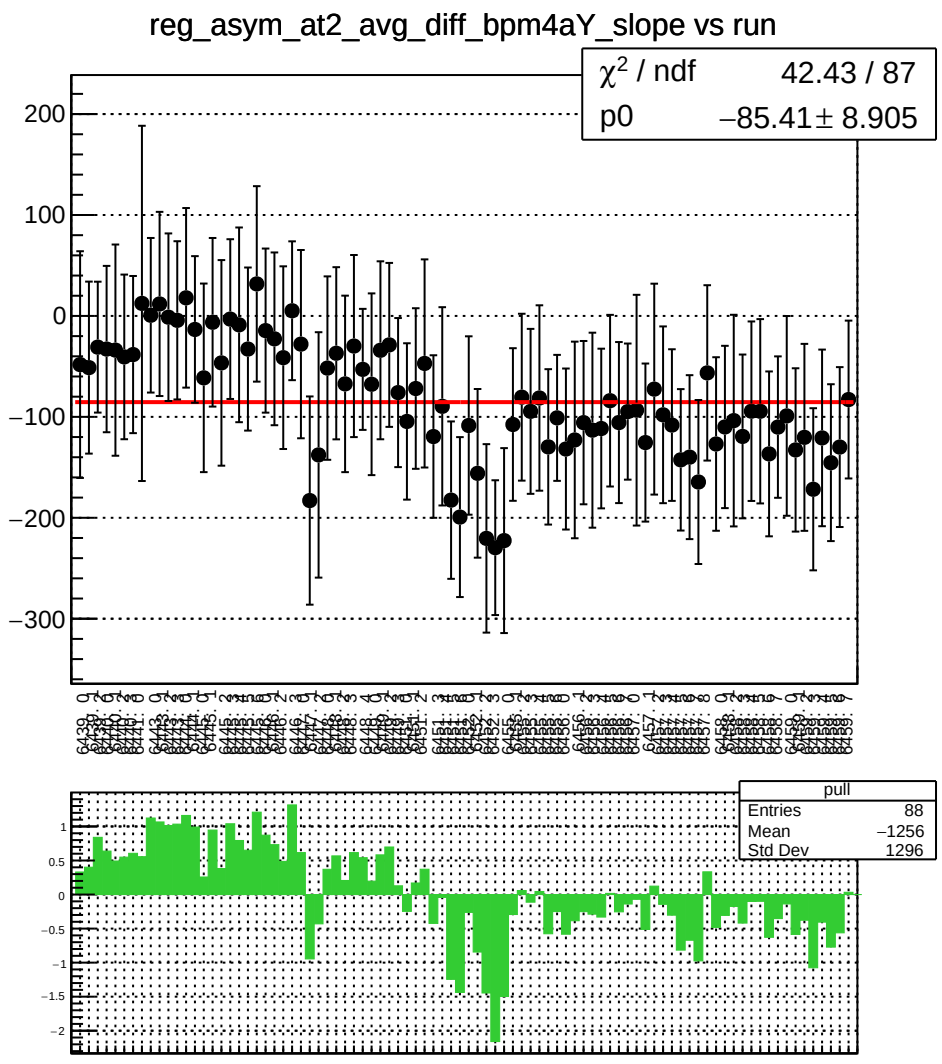

pull1D
Entries 88
Mean −0.003463
Std Dev 0.9722

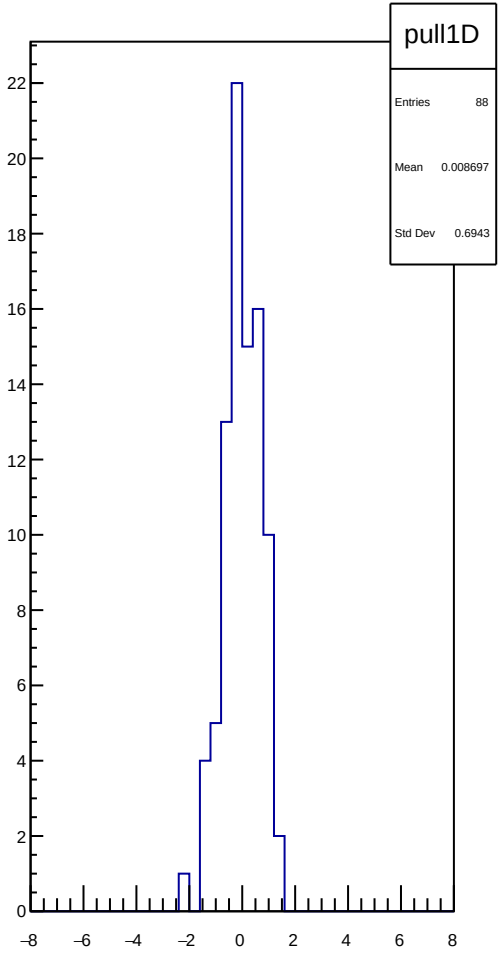

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 85.36 / 87
p0 3.351 ± 0.08095
pull
Entries 88
Mean 113.5
Std Dev 46.03

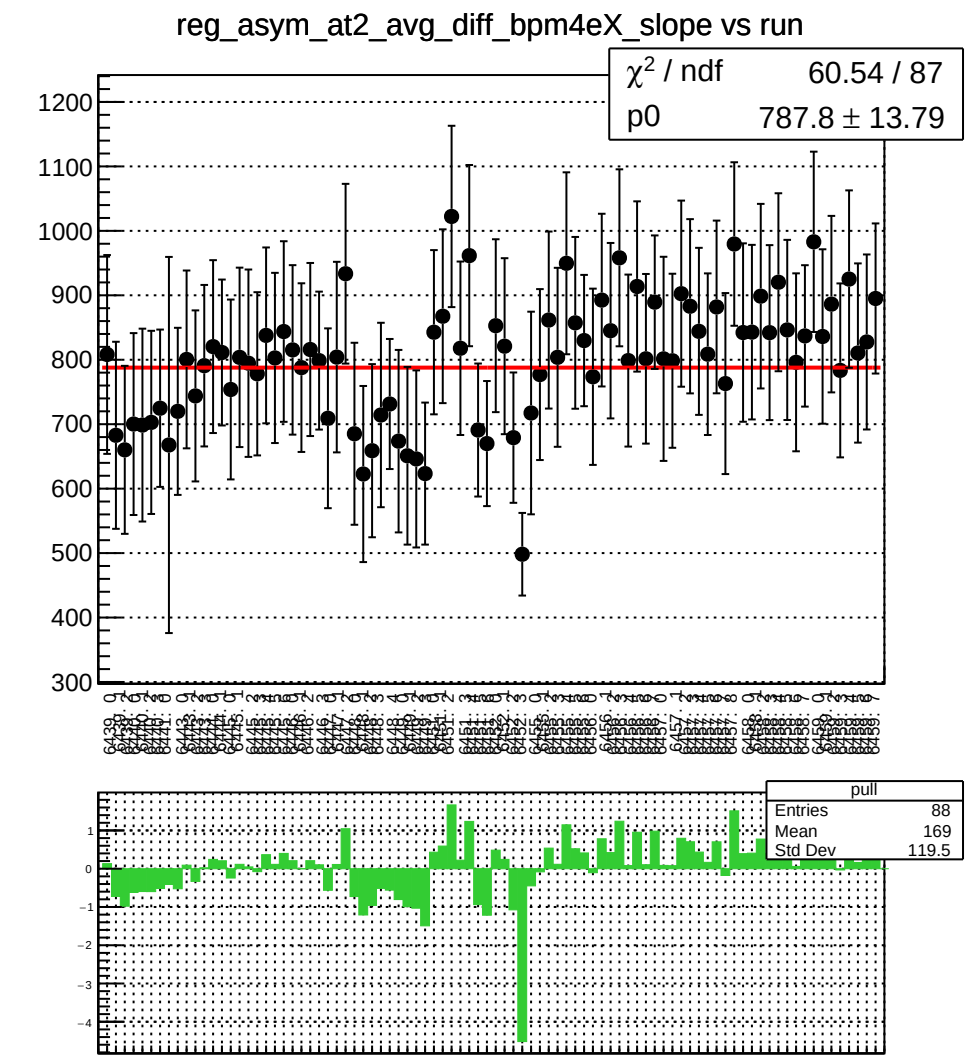

pull1D
Entries 88
Mean −0.01077
Std Dev 0.9848

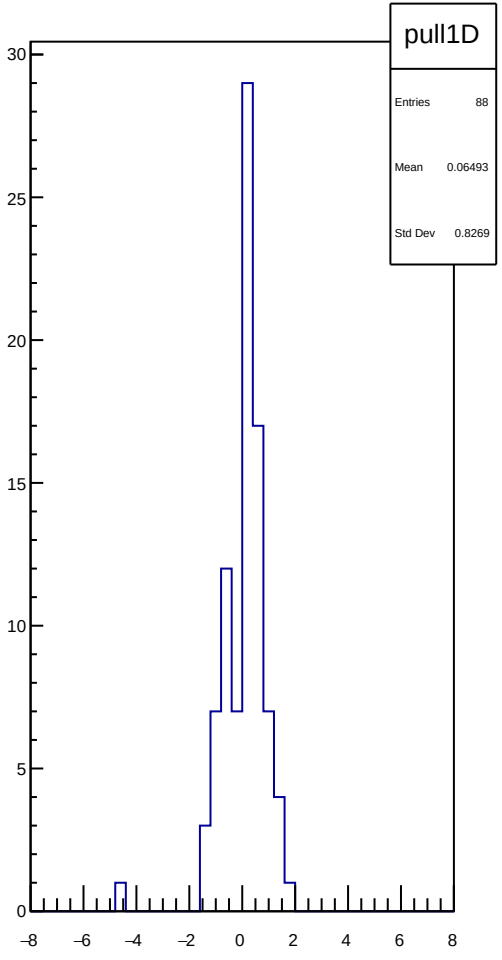

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 55.19 / 87
p0 −658.7 ± 12.7
pull
Entries 88
Mean 138.2
Std Dev 86.03

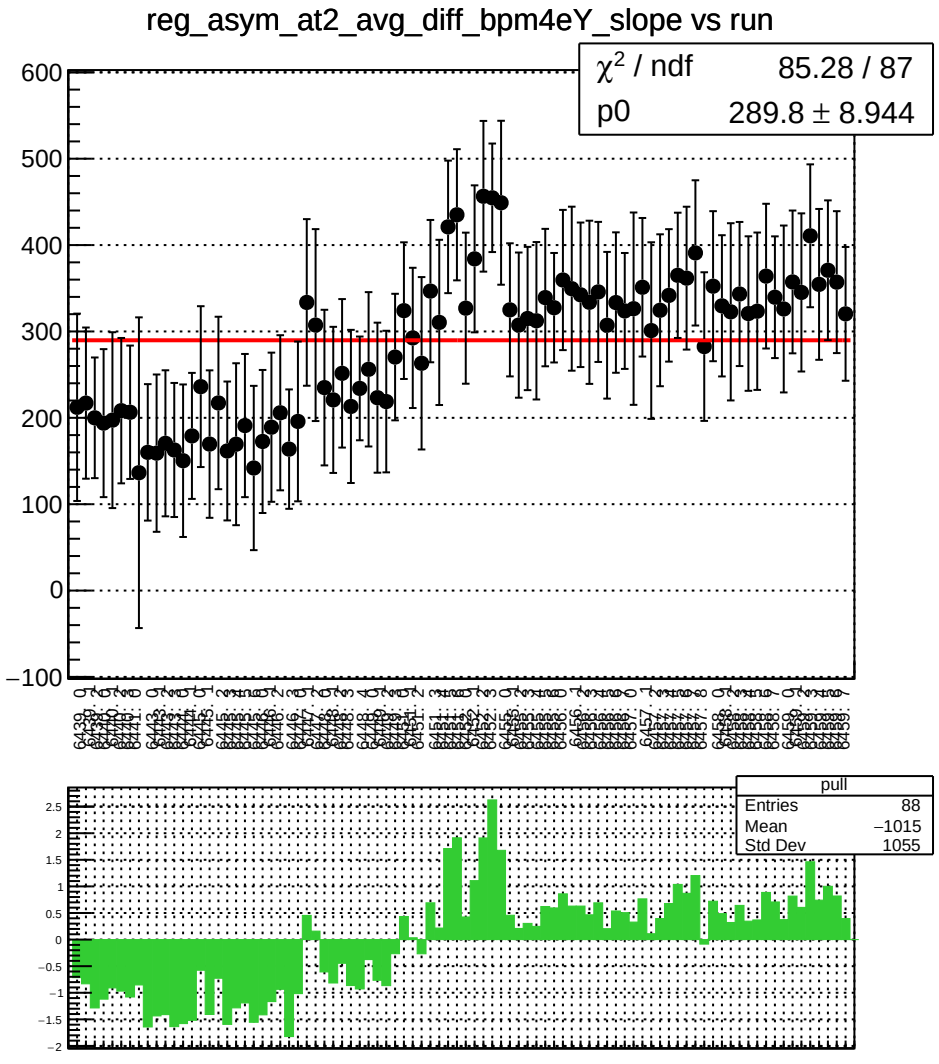

pull1D
Entries 88
Mean −0.06751
Std Dev 0.7891

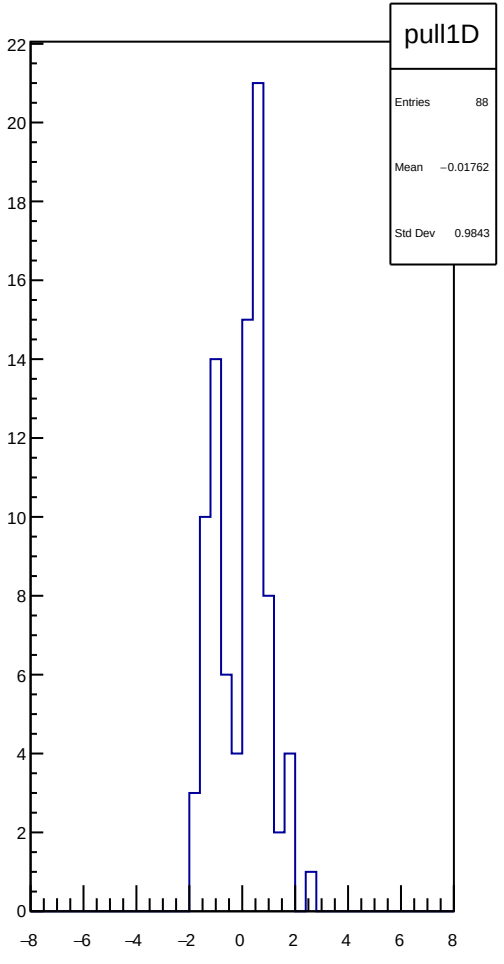

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 42.43 / 87
p0 −85.41 ± 8.905
200
100
0
−100
−200
−300
pull
Entries 88
Mean −1256
Std Dev 1296
1
0.5
0
−0.5
−1
−1.5
−2

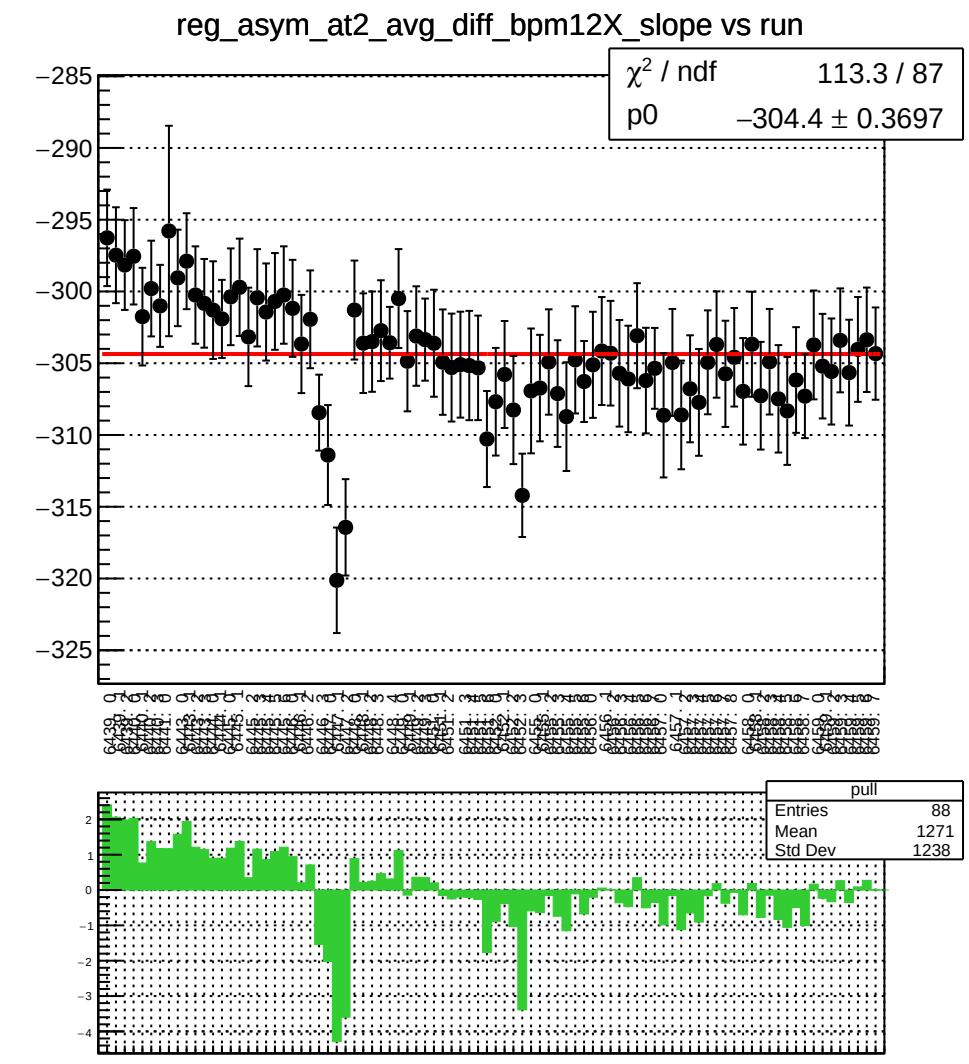

pull1D
Entries 88
Mean 0.008697
Std Dev 0.6943
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

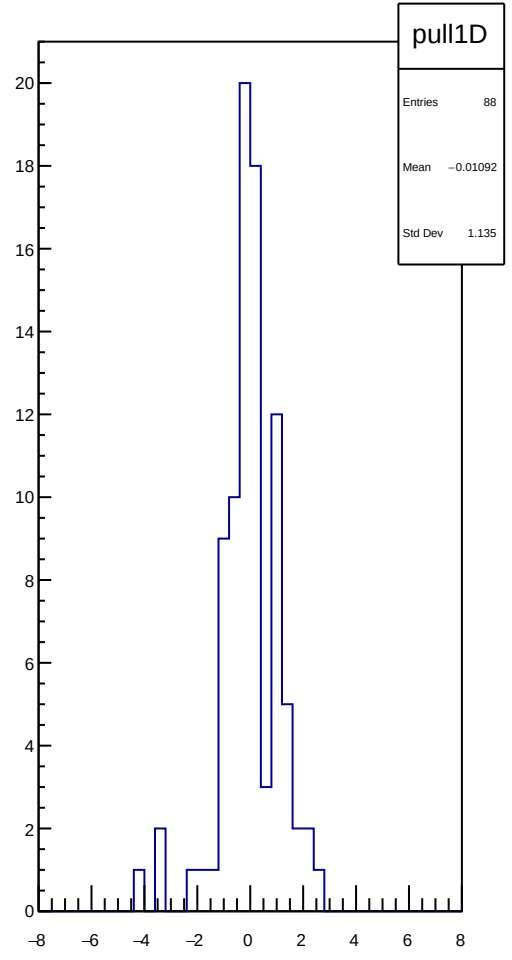

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.54 / 87
p0 787.8 ± 13.79
pull
Entries 88
Mean 169
Std Dev 119.5

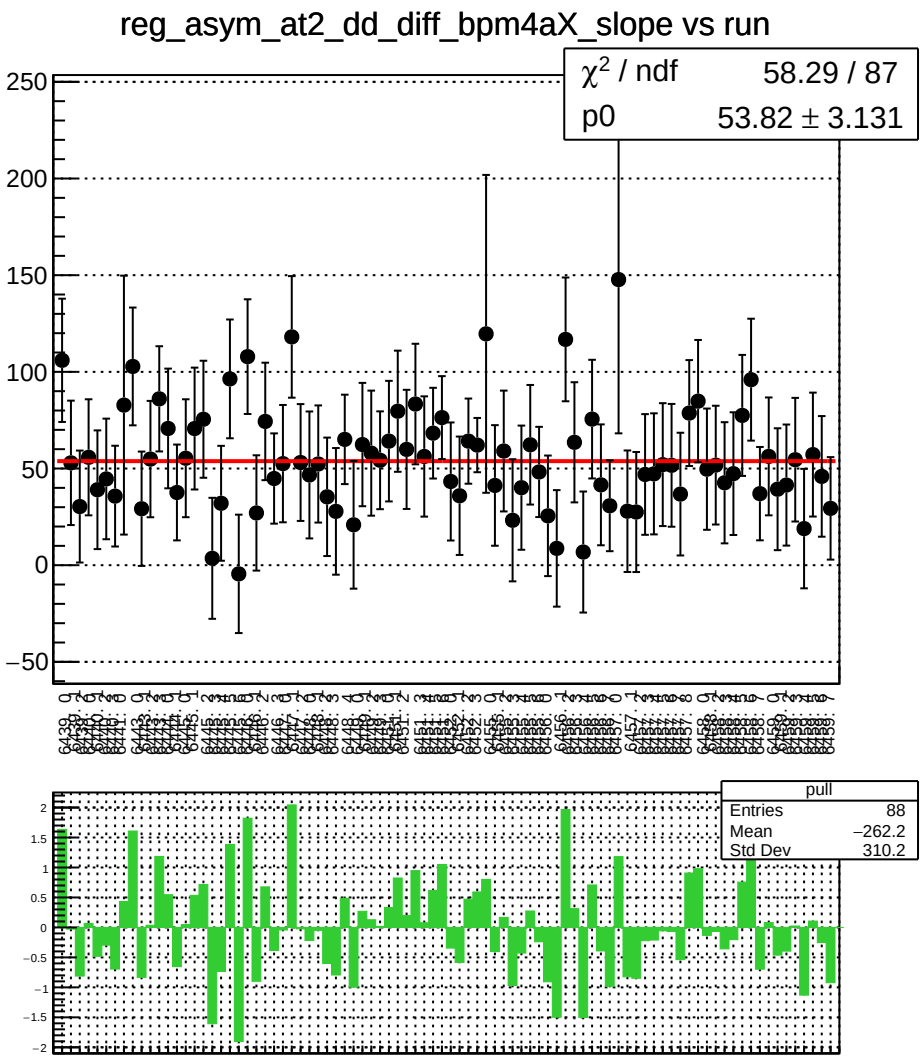

pull1D
Entries 88
Mean 0.06493
Std Dev 0.8269

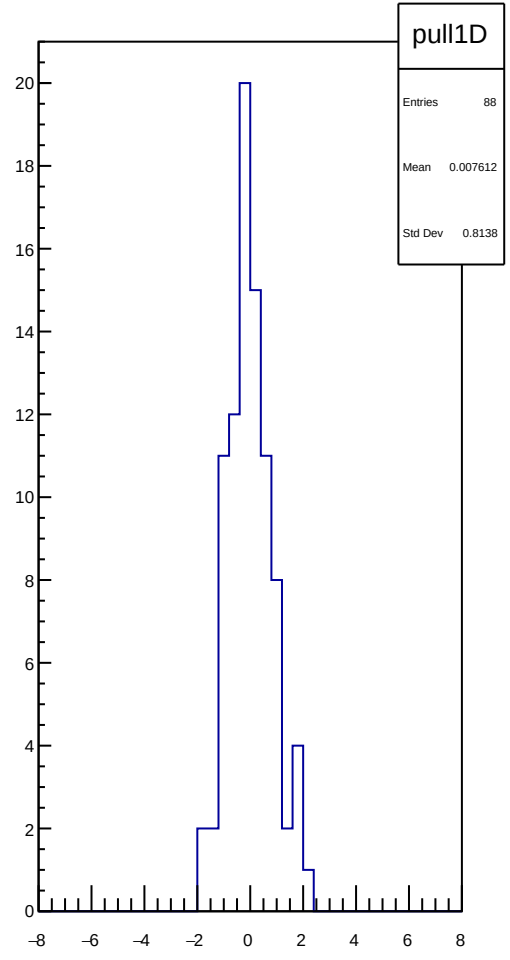

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 85.28 / 87
p0 289.8 ± 8.944
pull
Entries 88
Mean −1015
Std Dev 1055

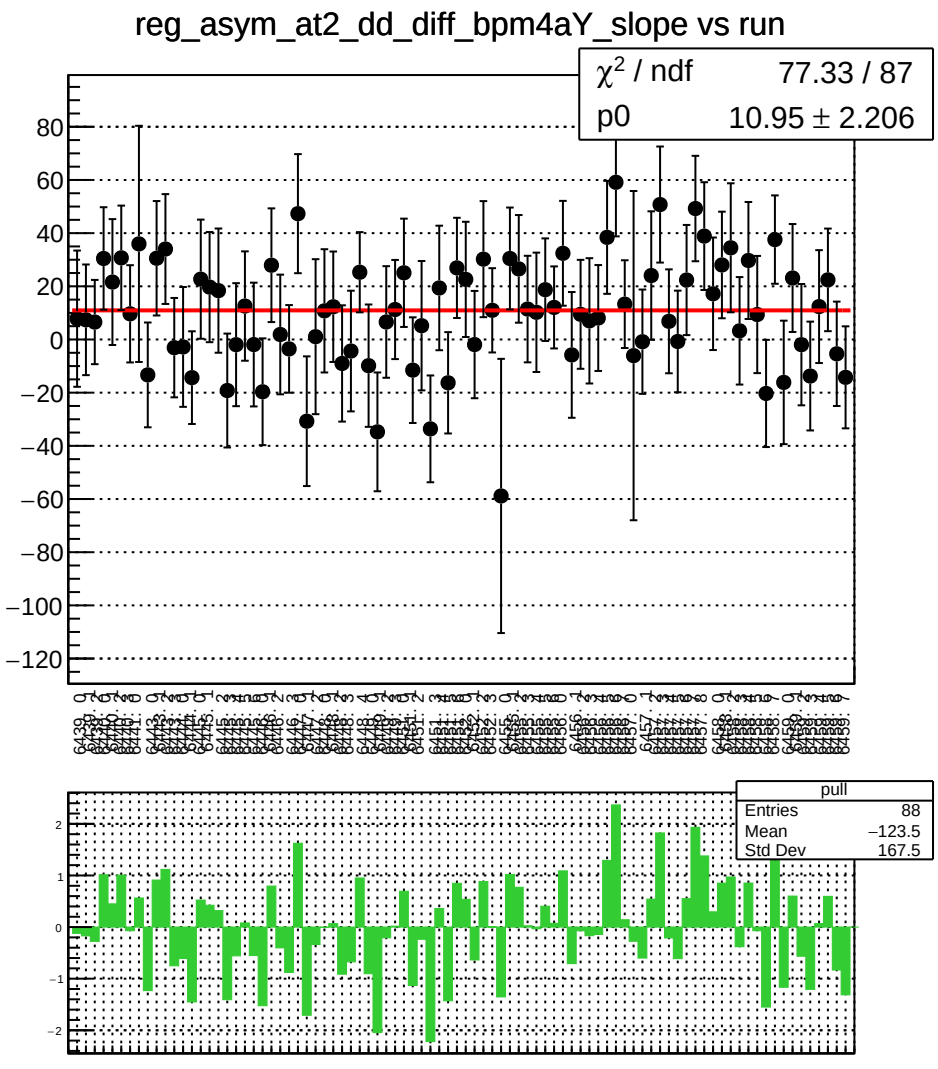

pull1D
Entries 88
Mean −0.01762
Std Dev 0.9843

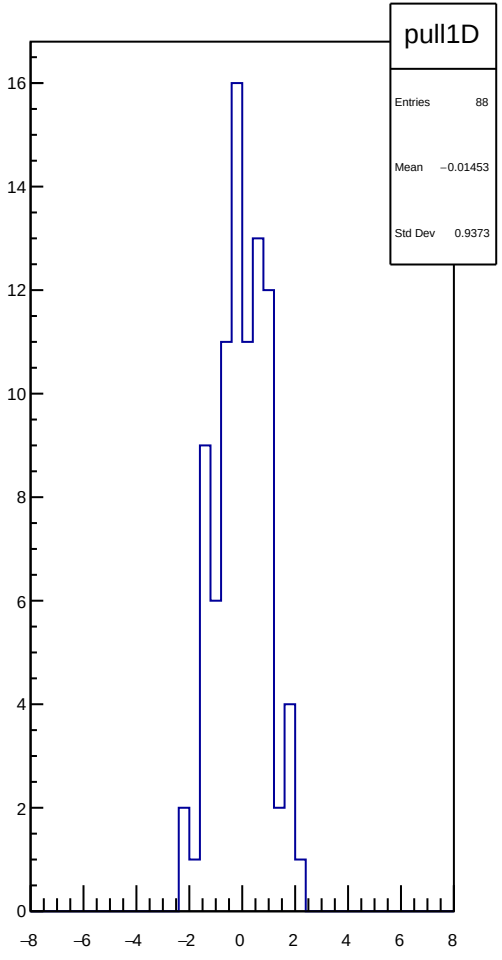

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 113.3 / 87
p0 −304.4 ± 0.3697
pull
Entries 88
Mean 1271
Std Dev 1238

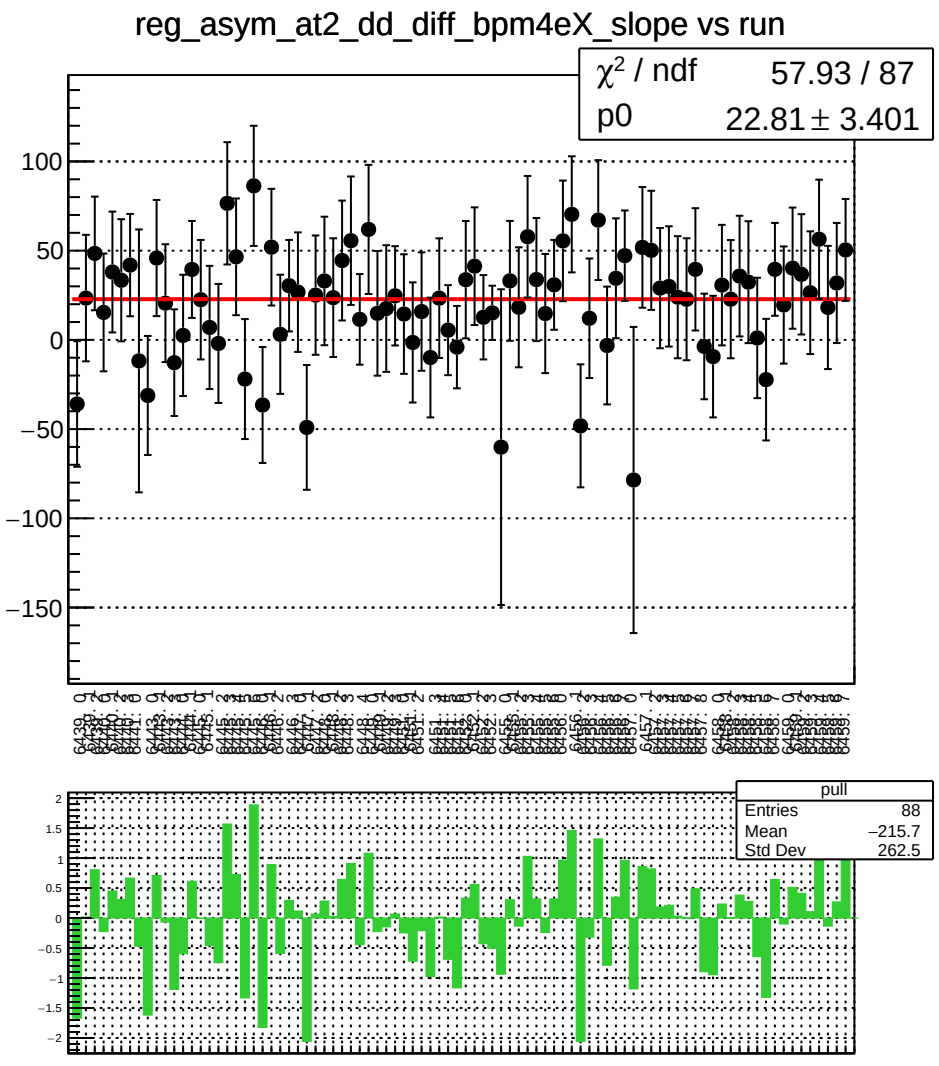

pull1D
Entries 88
Mean −0.01092
Std Dev 1.135

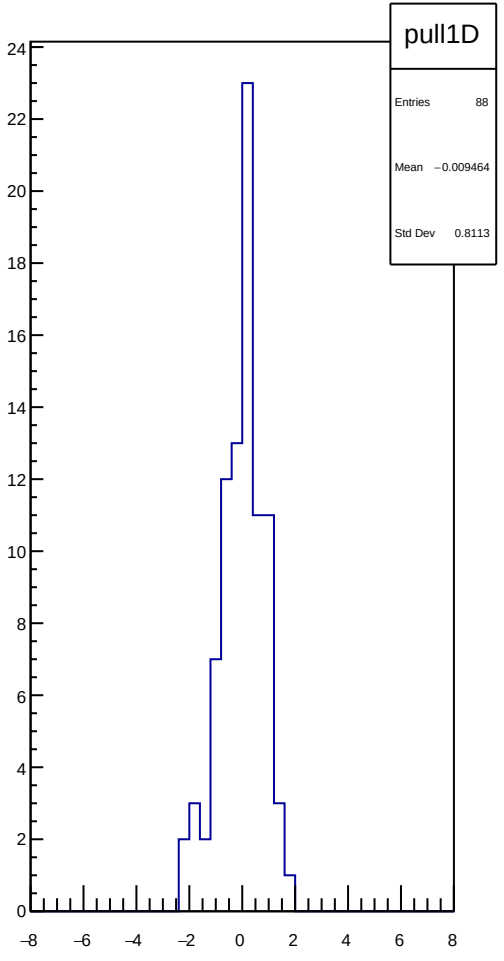

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 58.29 / 87
p0 53.82 ± 3.131
pull
Entries 88
Mean −262.2
Std Dev 310.2

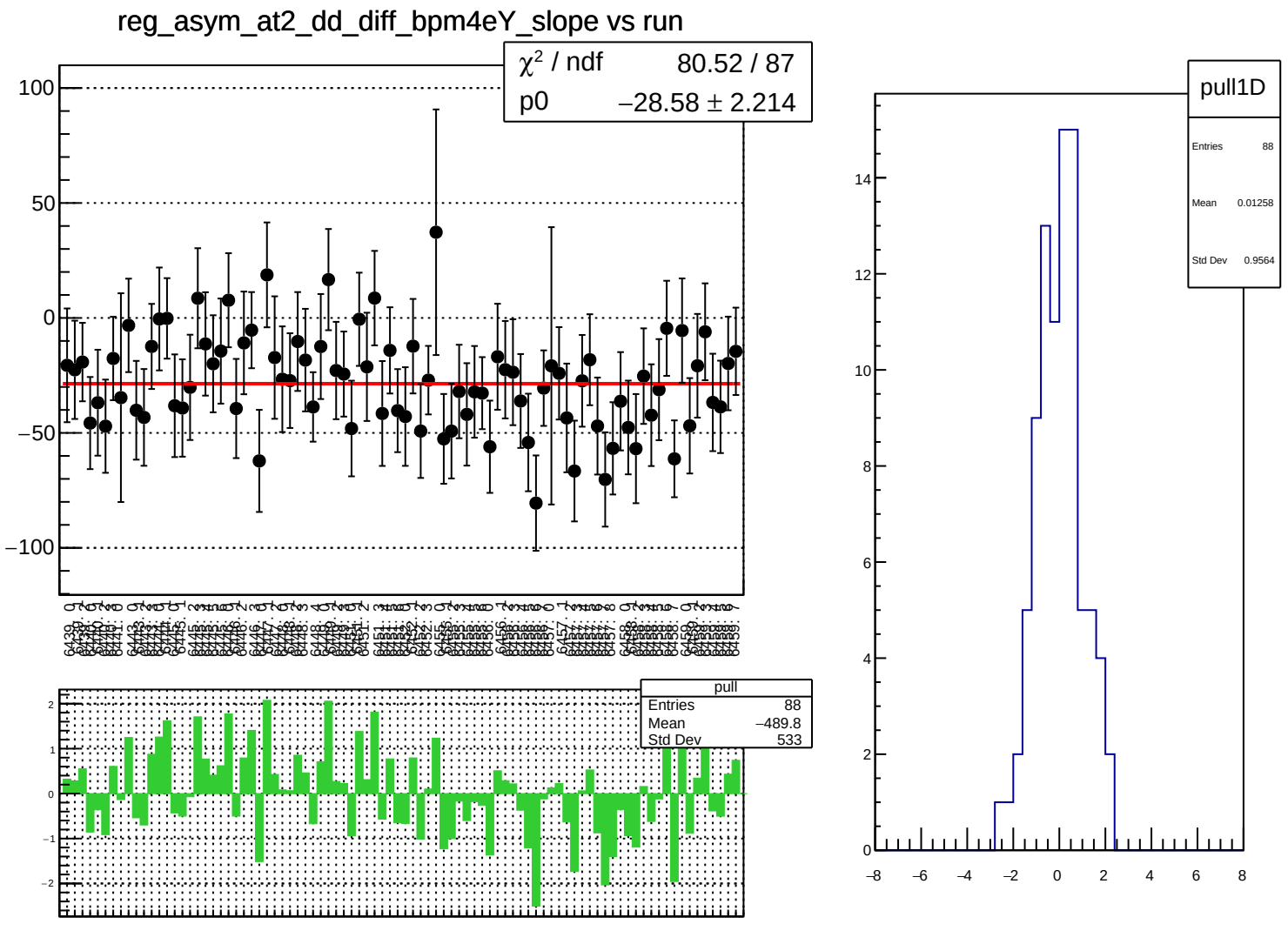

pull1D
Entries 88
Mean 0.007612
Std Dev 0.8138

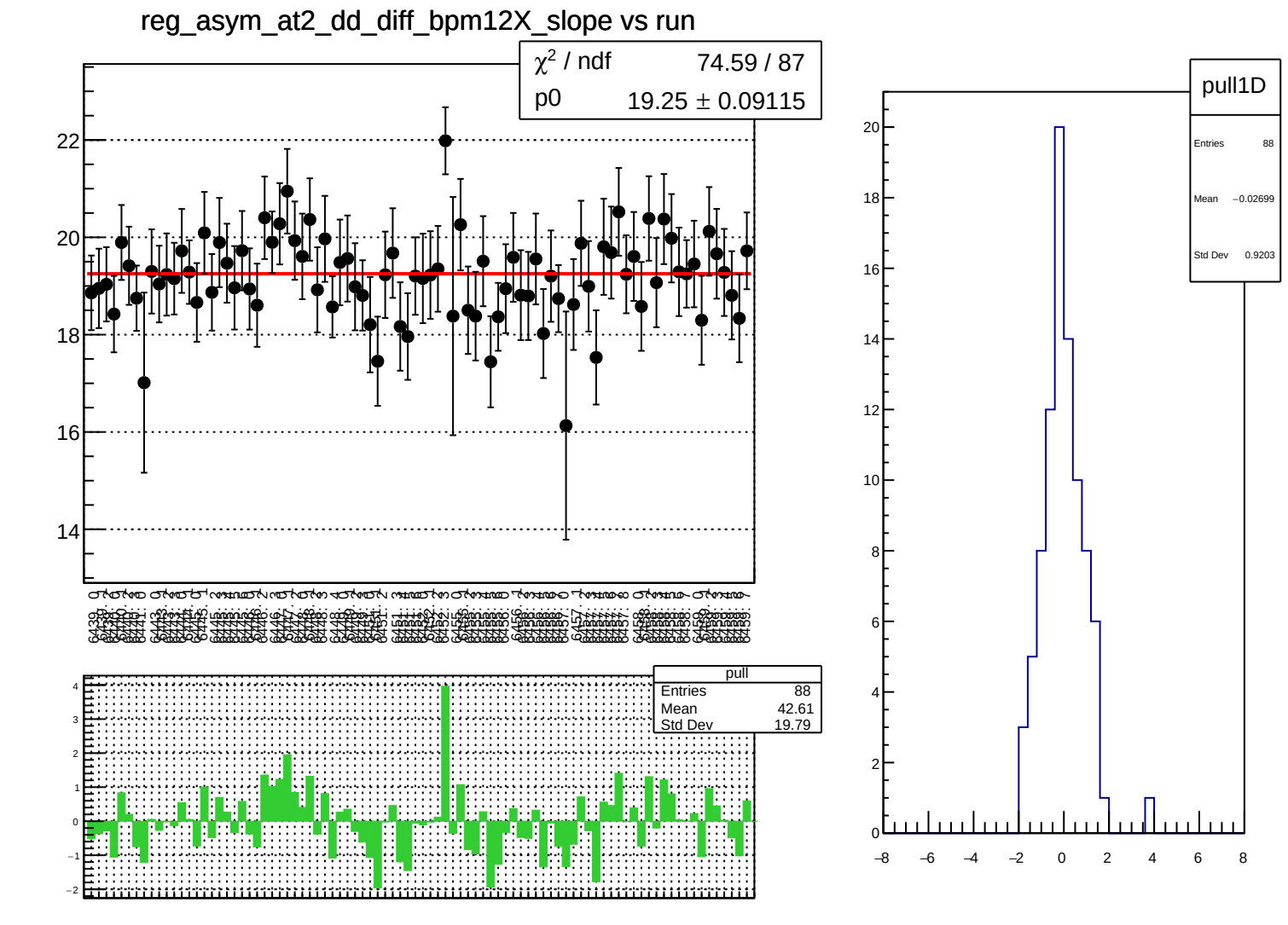

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.33 / 87
p0 10.95 ± 2.206
pull
Entries 88
Mean −123.5
Std Dev 167.5

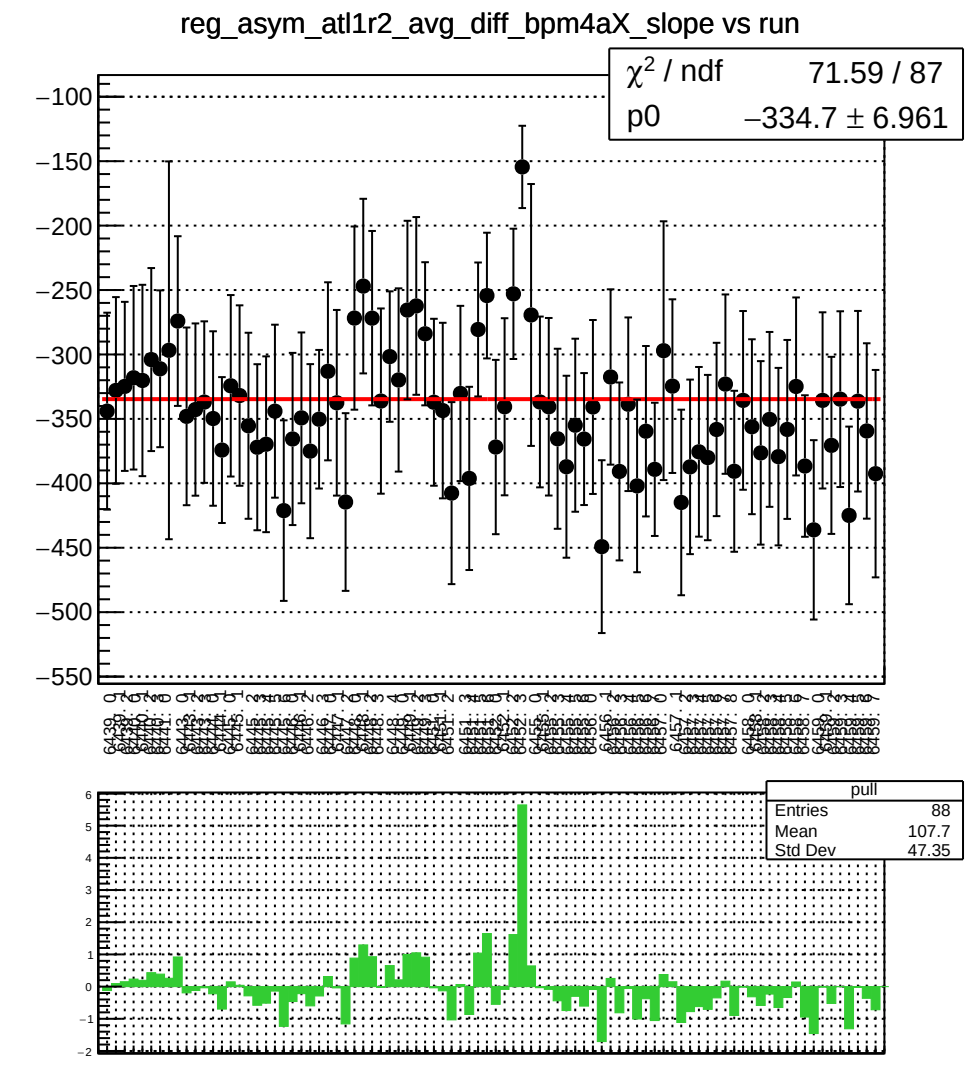

pull1D
Entries 88
Mean −0.01453
Std Dev 0.9373

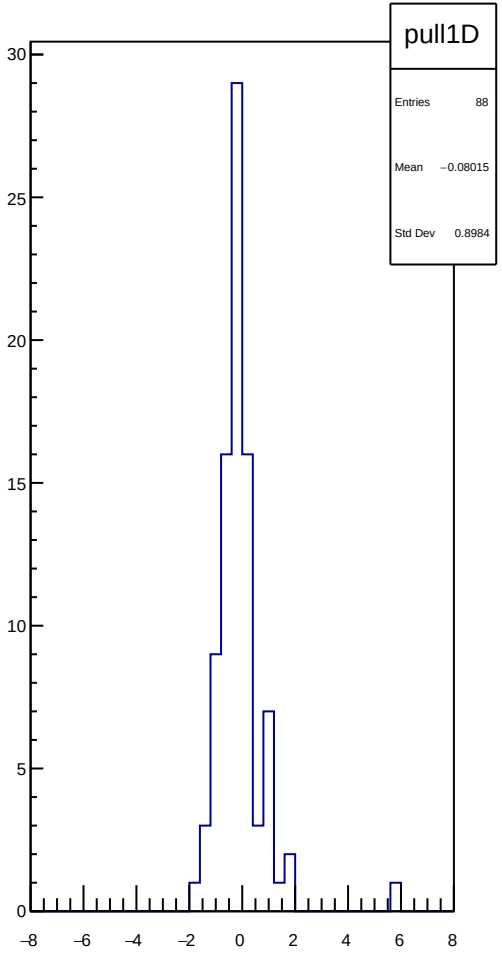

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.93 / 87
p0 22.81 ± 3.401
pull
Entries 88
Mean −215.7
Std Dev 262.5

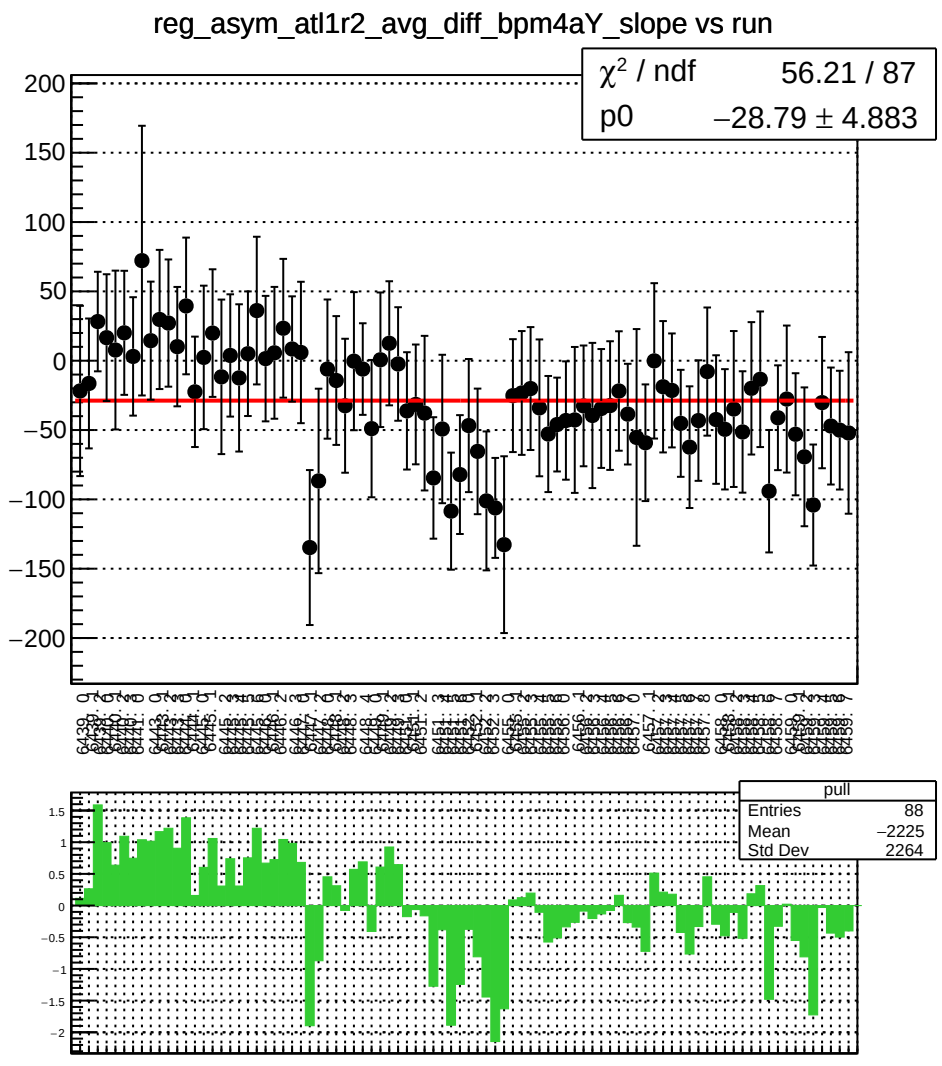

pull1D
Entries 88
Mean −0.009464
Std Dev 0.8113

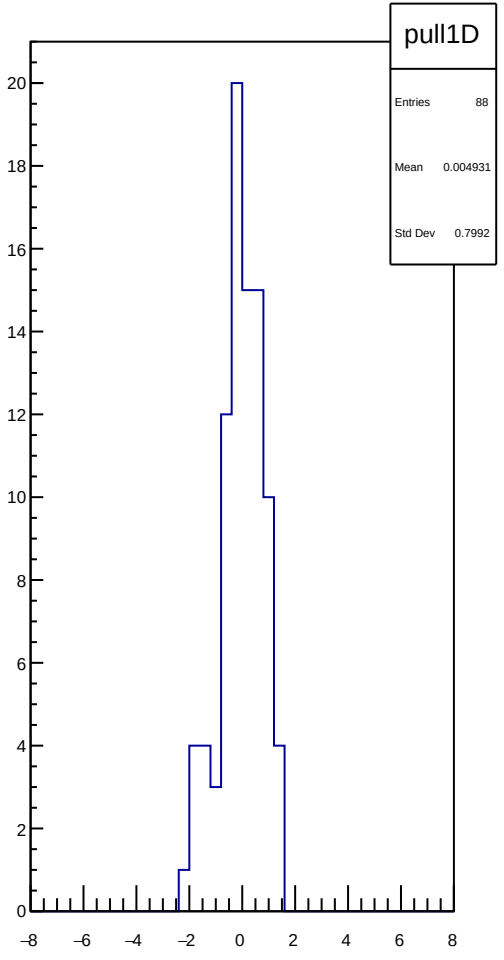

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.52 / 87
p0 −28.58 ± 2.214
100
50
0
−50
−100
pull
Entries 88
Mean −489.8
Std Dev 533
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01258
Std Dev 0.9564
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

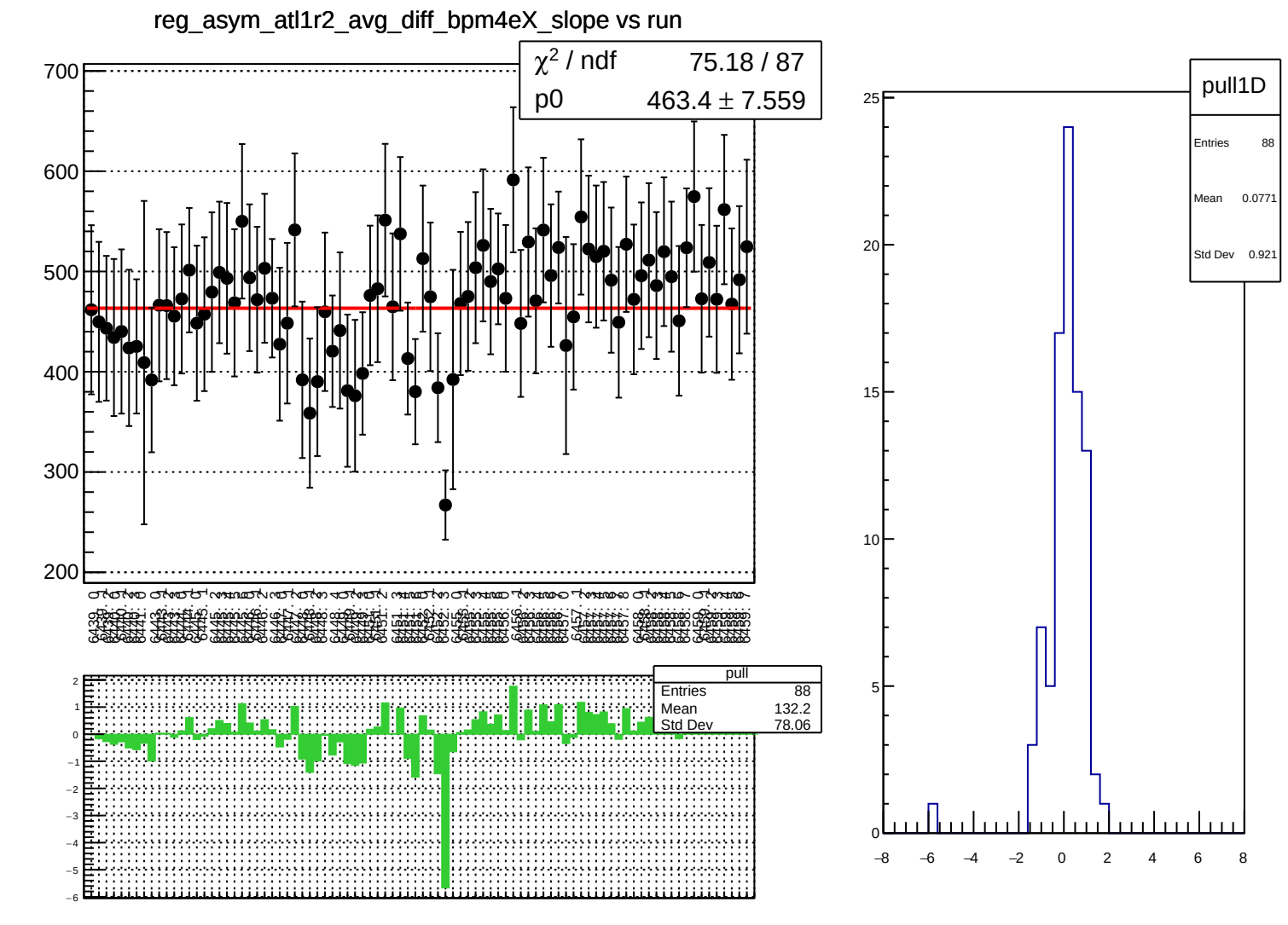

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 74.59 / 87
p0 19.25 ± 0.09115
pull
Entries 88
Mean 42.61
Std Dev 19.79
pull1D
Entries 88
Mean −0.02699
Std Dev 0.9203

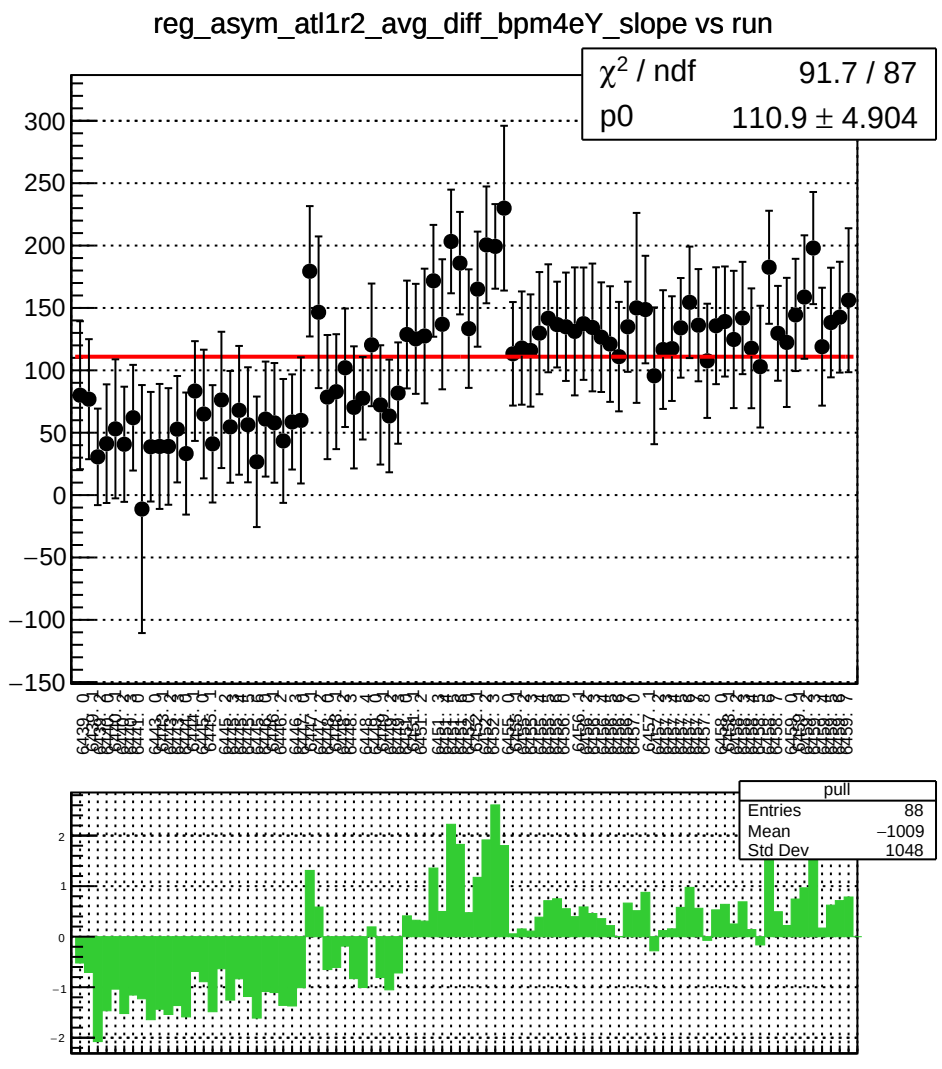

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 71.59 / 87
p0 −334.7 ± 6.961
pull
Entries 88
Mean 107.7
Std Dev 47.35

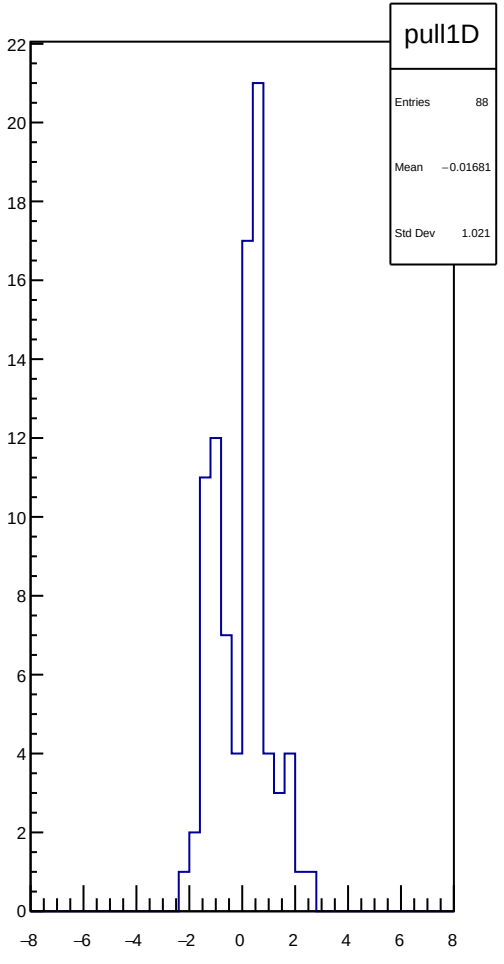

pull1D
Entries 88
Mean −0.08015
Std Dev 0.8984

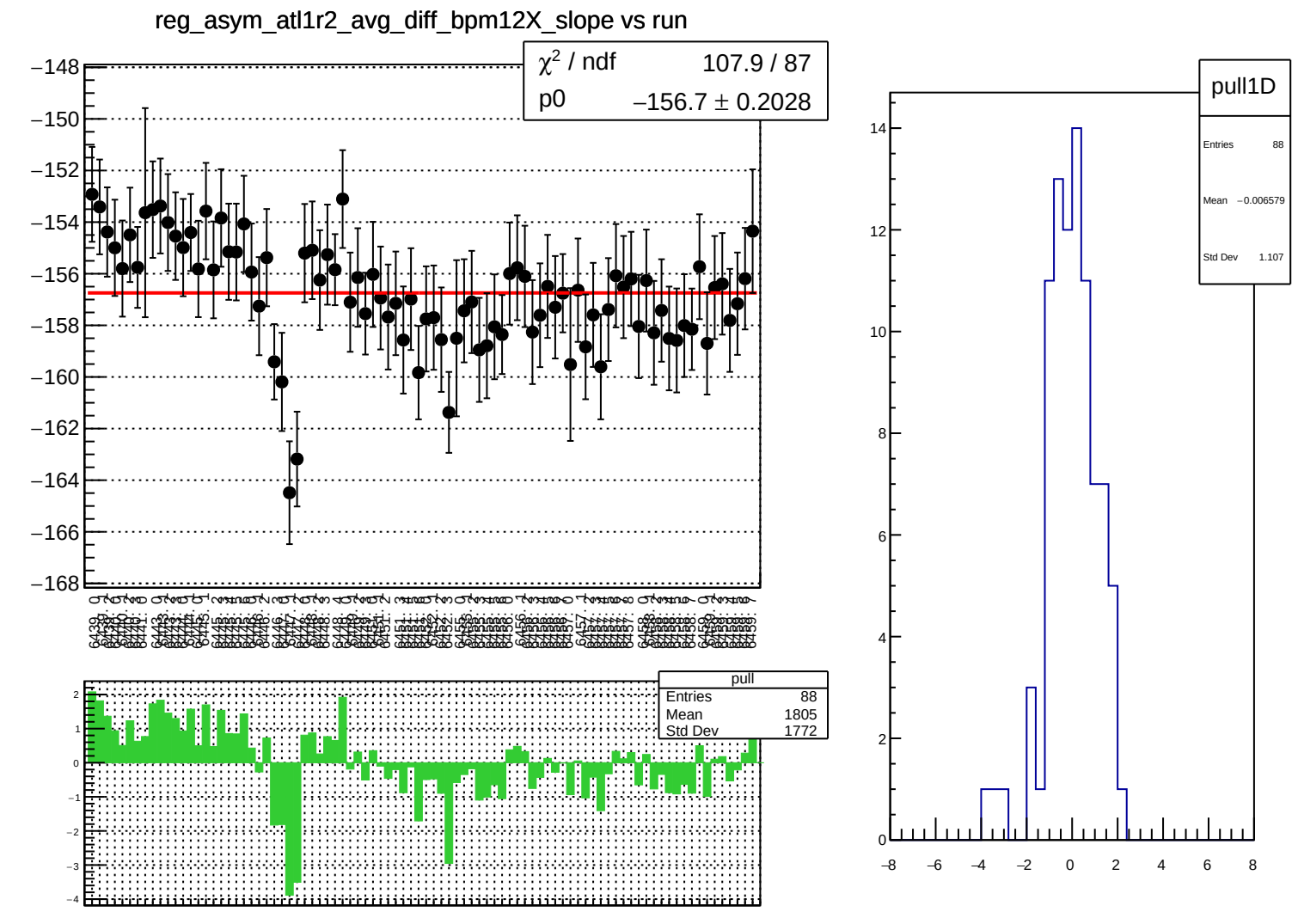

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.21 / 87
p0 −28.79 ± 4.883
pull
Entries 88
Mean −2225
Std Dev 2264

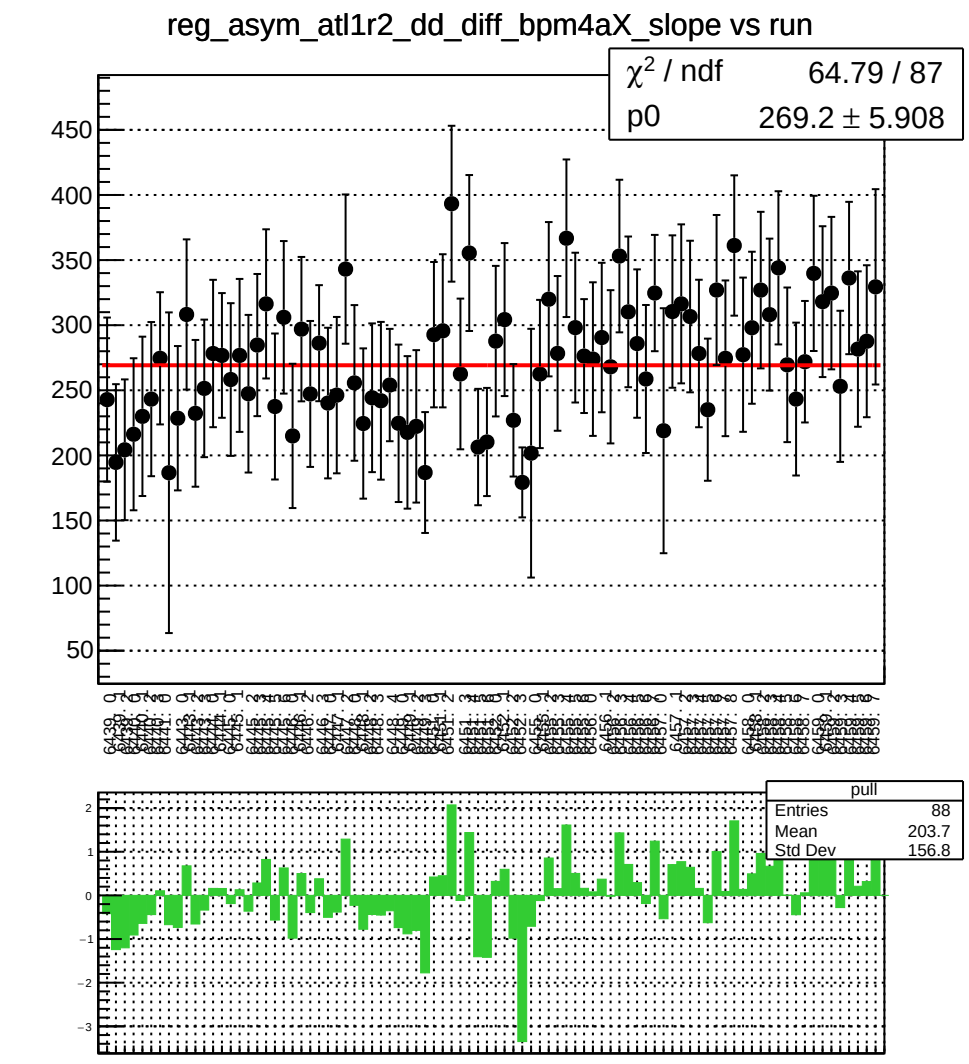

pull1D
Entries 88
Mean 0.004931
Std Dev 0.7992

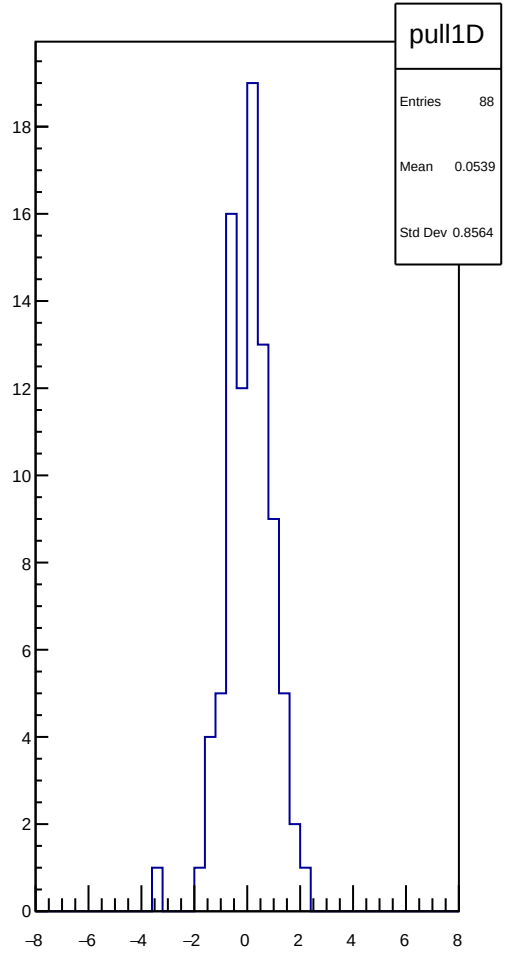

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 75.18 / 87
p0 463.4 ± 7.559
700
600
500
400
300
200
pull
Entries 88
Mean 132.2
Std Dev 78.06
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 88
Mean 0.0771
Std Dev 0.921
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

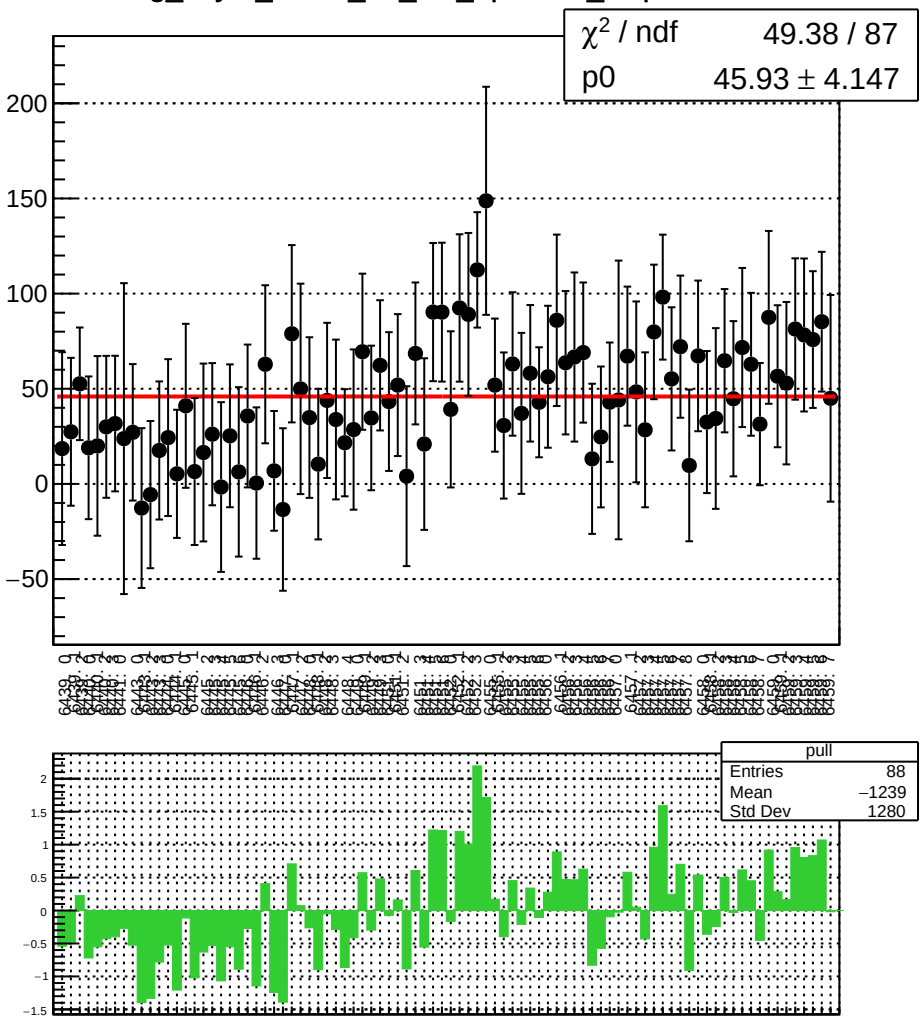

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.7 / 87
p0 110.9 ± 4.904
pull
Entries 88
Mean −1009
Std Dev 1048

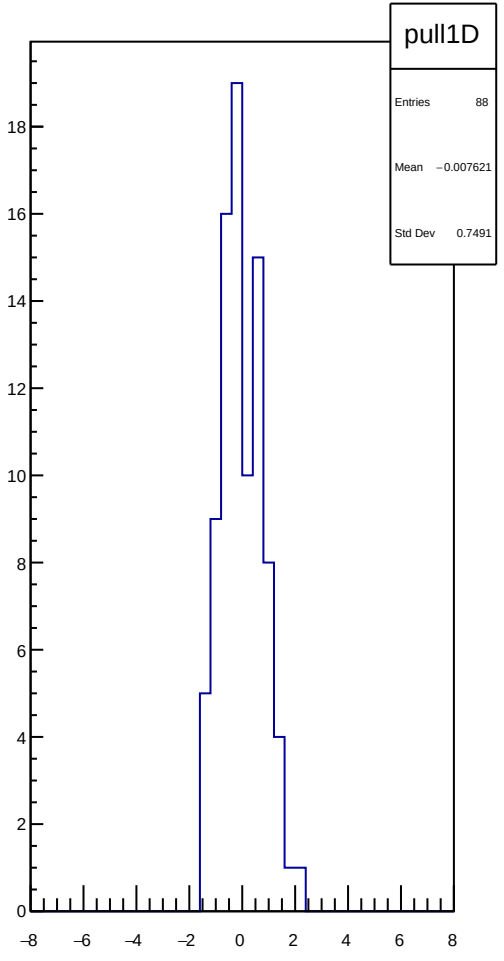

pull1D
Entries 88
Mean −0.01681
Std Dev 1.021

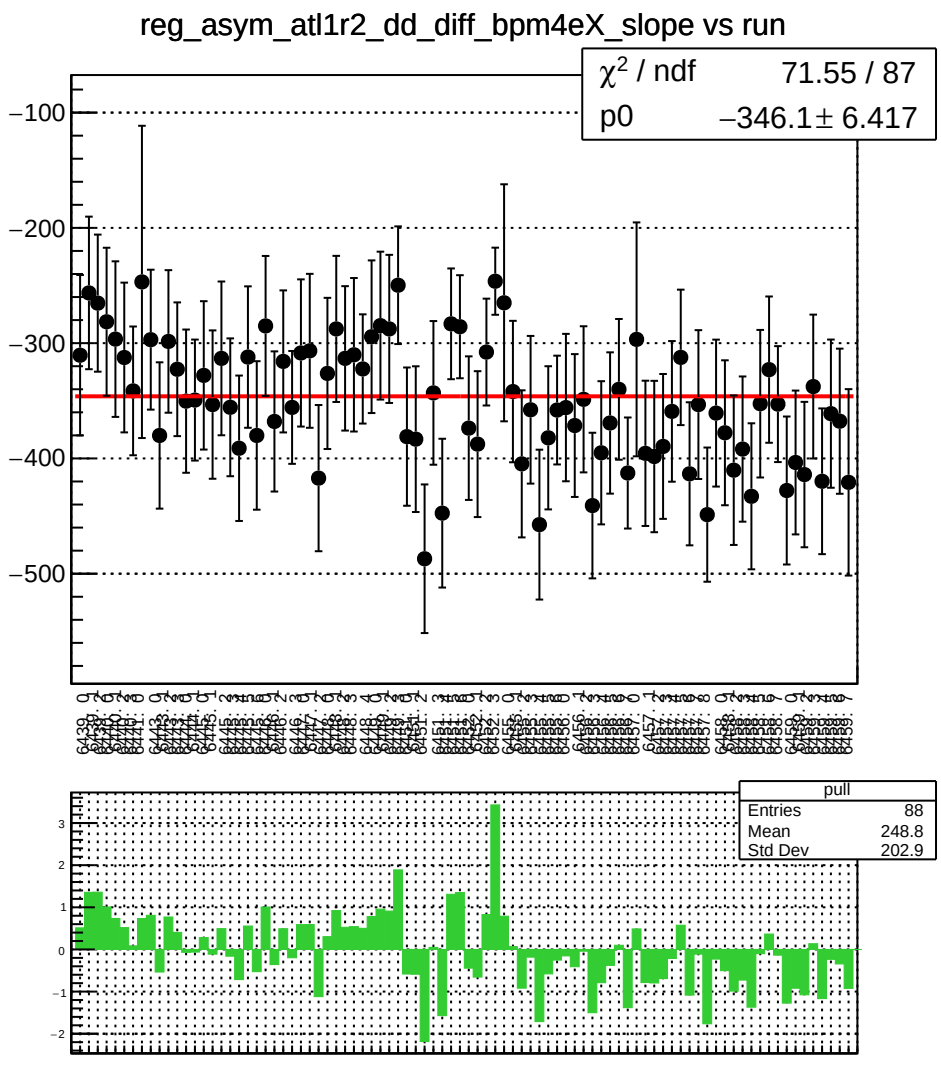

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 107.9 / 87
p0 −156.7 ± 0.2028
pull
Entries 88
Mean 1805
Std Dev 1772
pull1D
Entries 88
Mean −0.006579
Std Dev 1.107

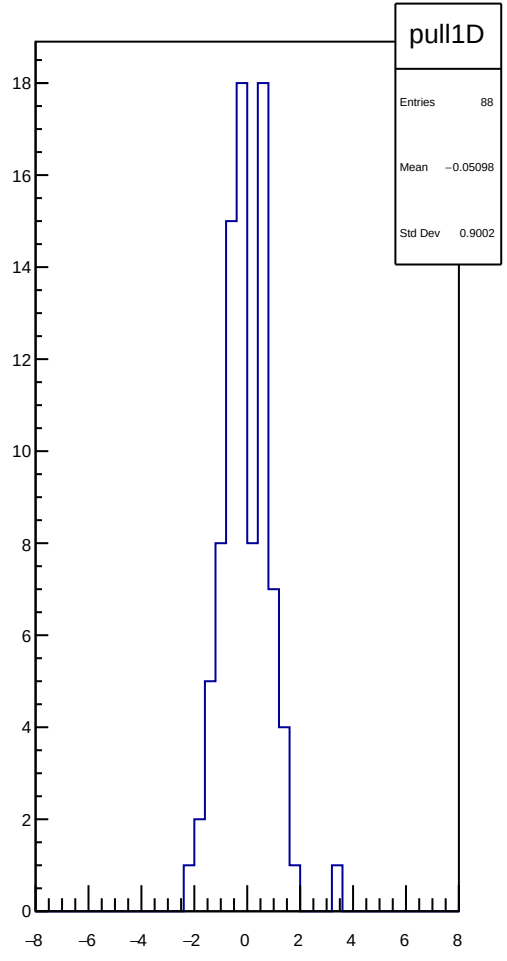

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 64.79 / 87
p0 269.2 ± 5.908
pull
Entries 88
Mean 203.7
Std Dev 156.8

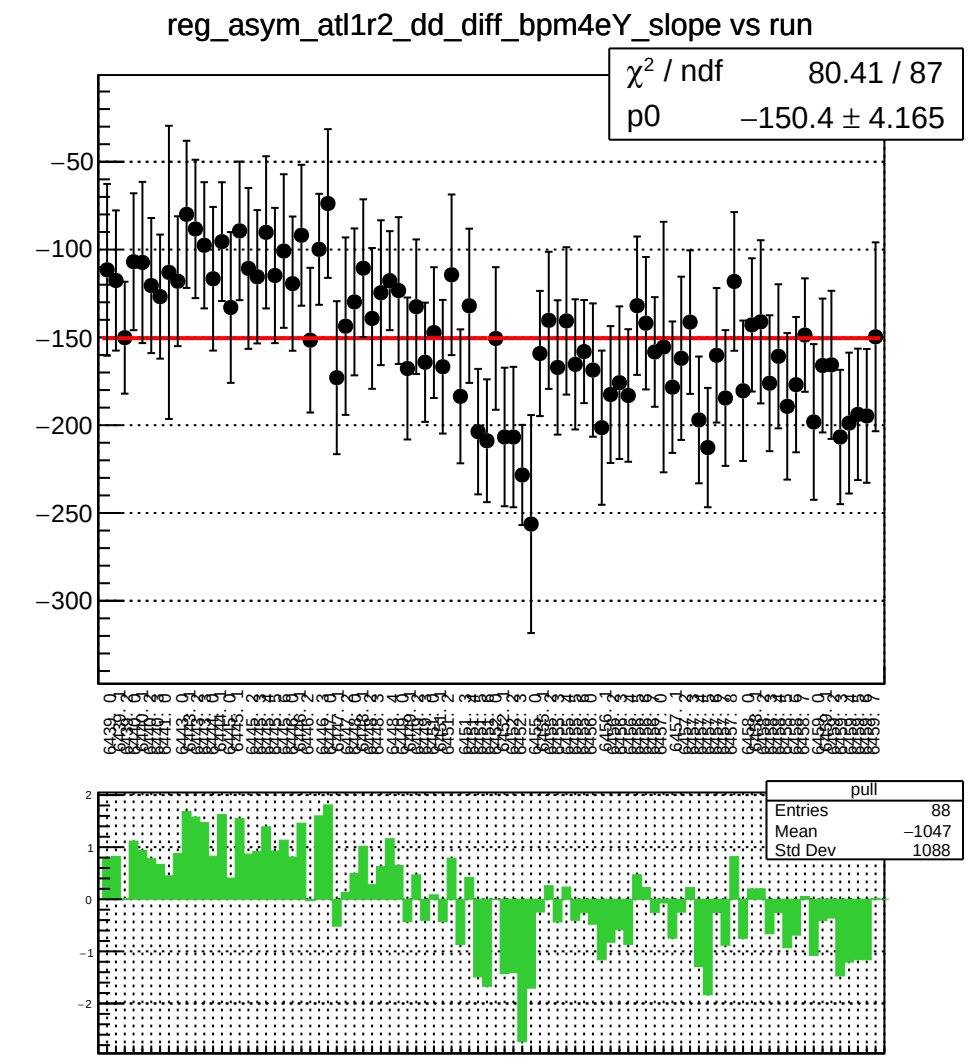

pull1D
Entries 88
Mean 0.0539
Std Dev 0.8564

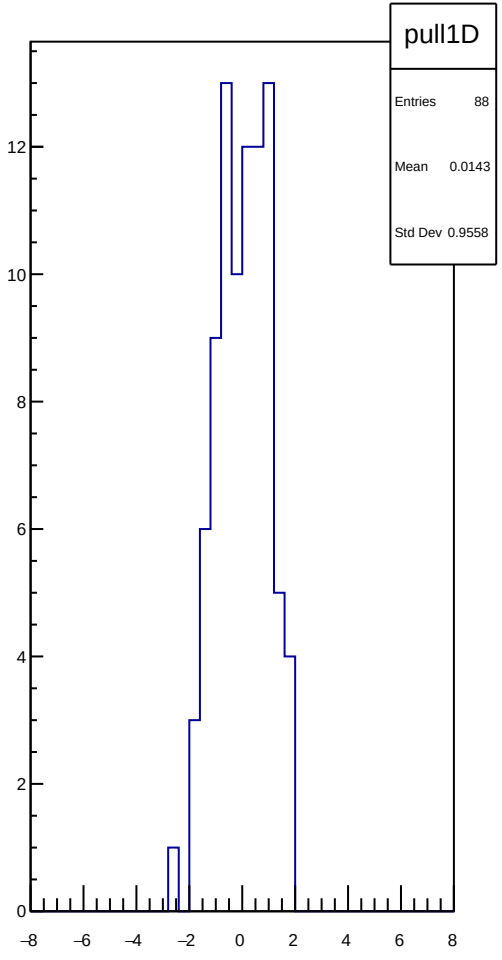

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.38 / 87
p0 45.93 ± 4.147
200
150
100
50
0
−50
pull
Entries 88
Mean −1239
Std Dev 1280
2
1.5
1
0.5
0
−0.5
−1
−1.5

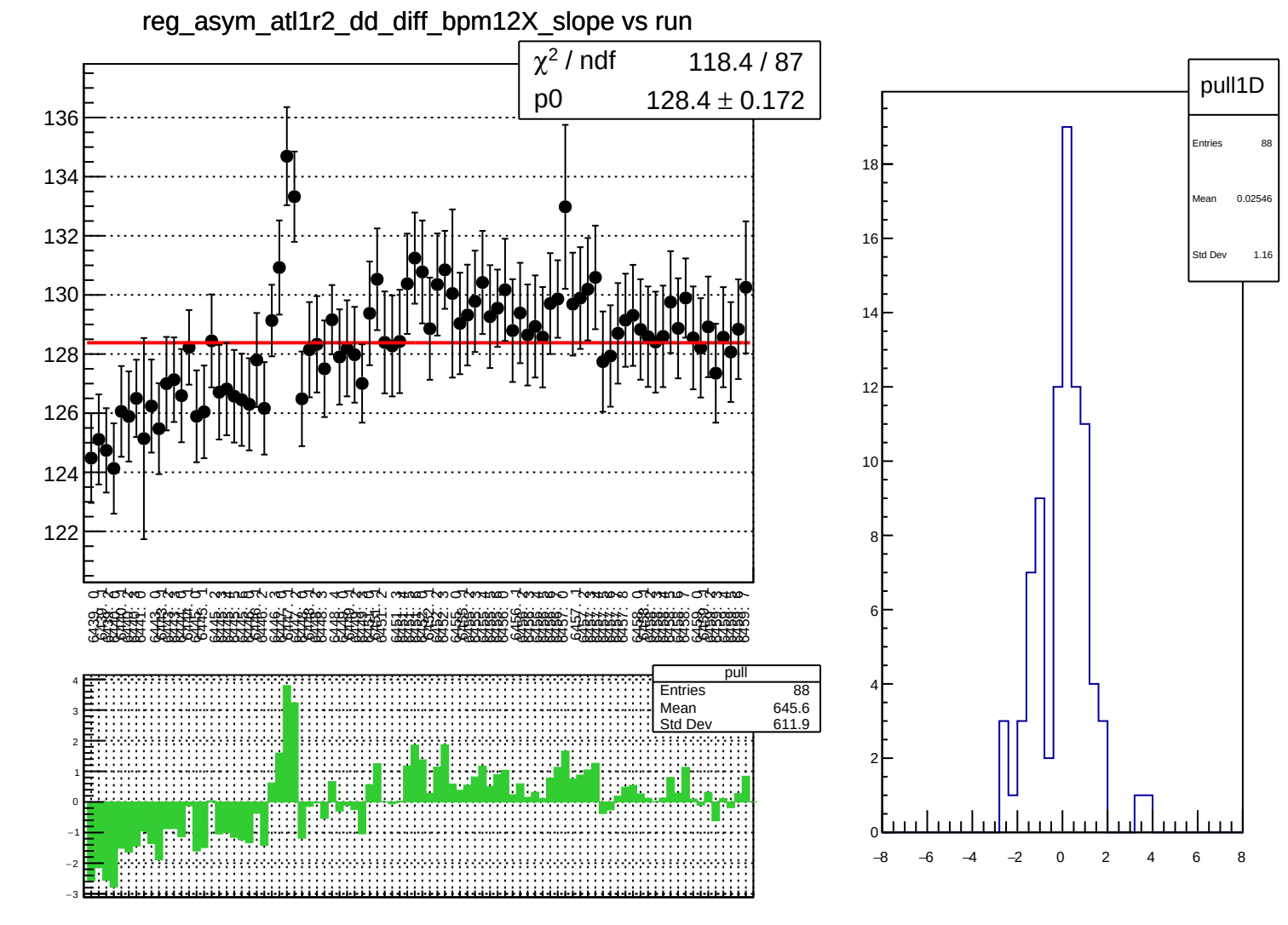

pull1D
Entries 88
Mean −0.007621
Std Dev 0.7491
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

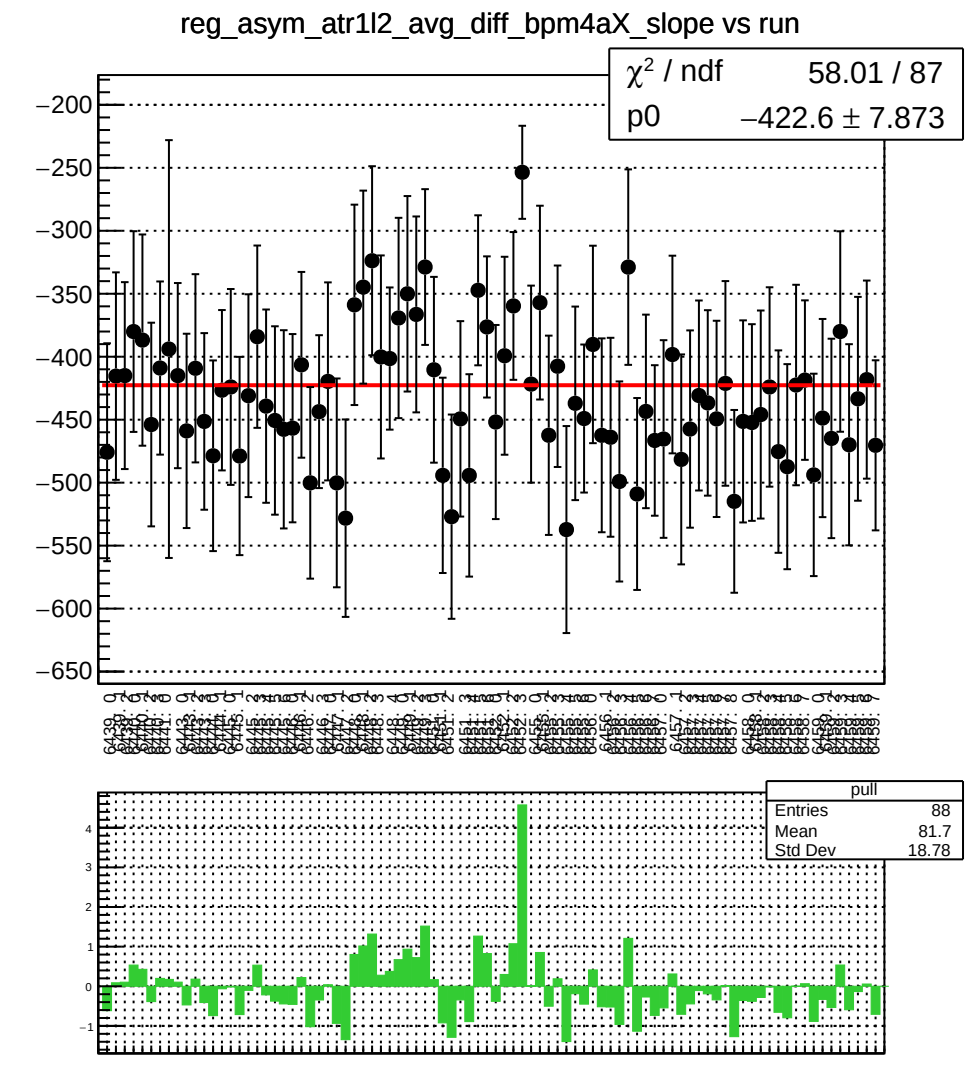

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.55 / 87
p0 −346.1 ± 6.417
−100
−200
−300
−400
−500
pull
Entries 88
Mean 248.8
Std Dev 202.9
3
2
1
0
−1
−2

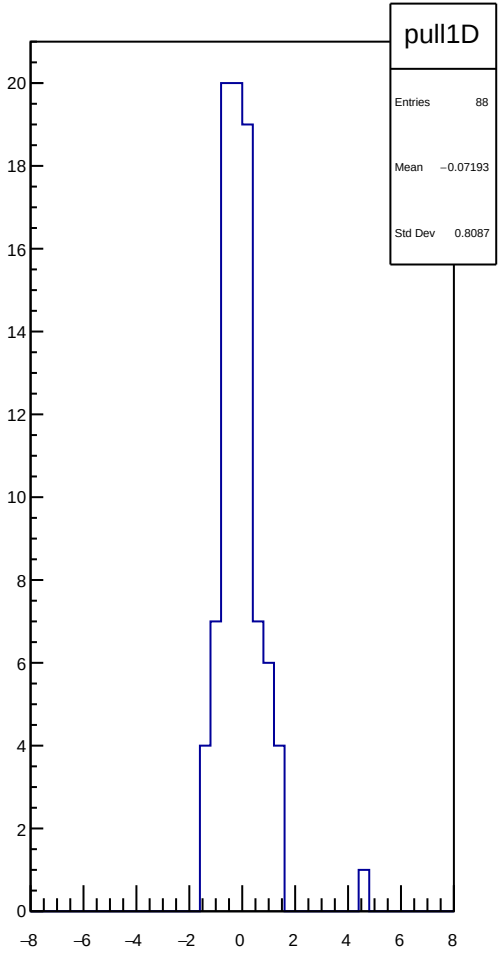

pull1D
Entries 88
Mean −0.05098
Std Dev 0.9002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

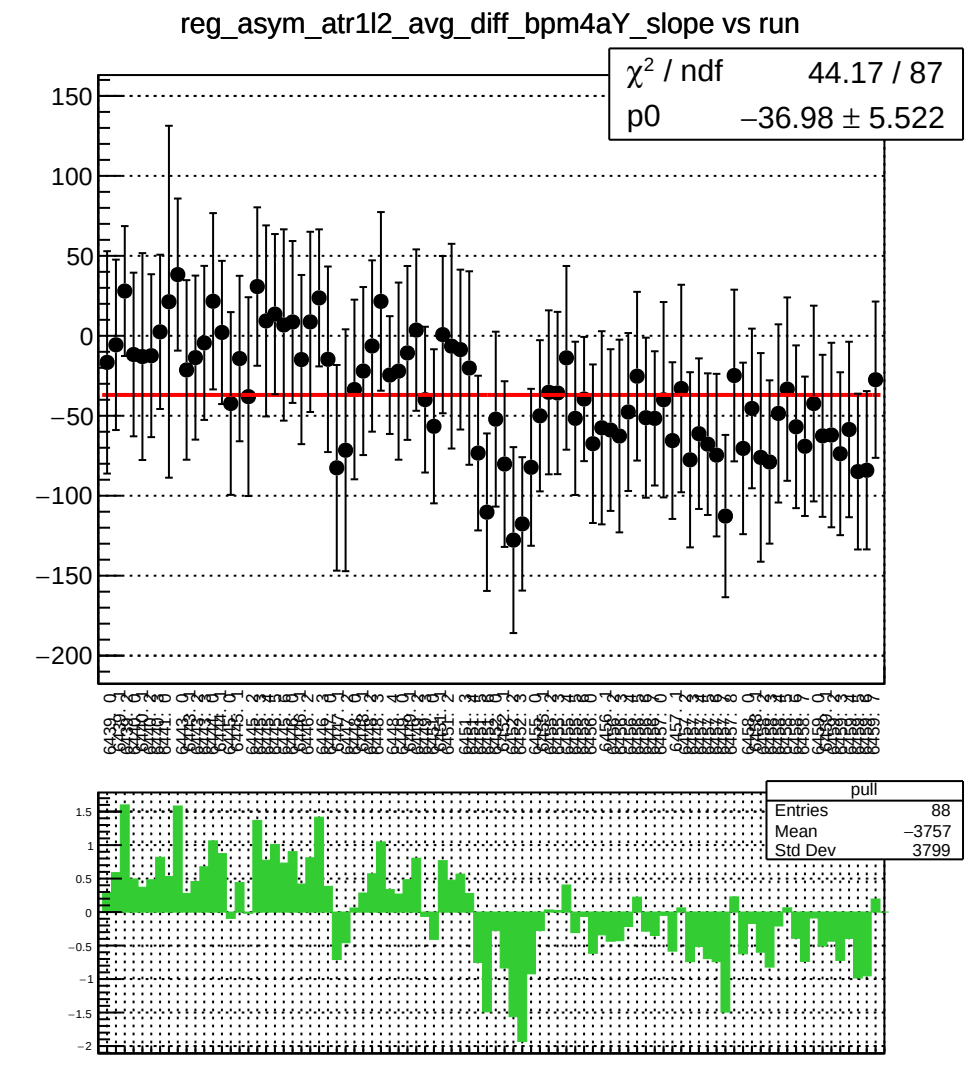

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.41 / 87
p0 −150.4 ± 4.165
pull
Entries 88
Mean −1047
Std Dev 1088

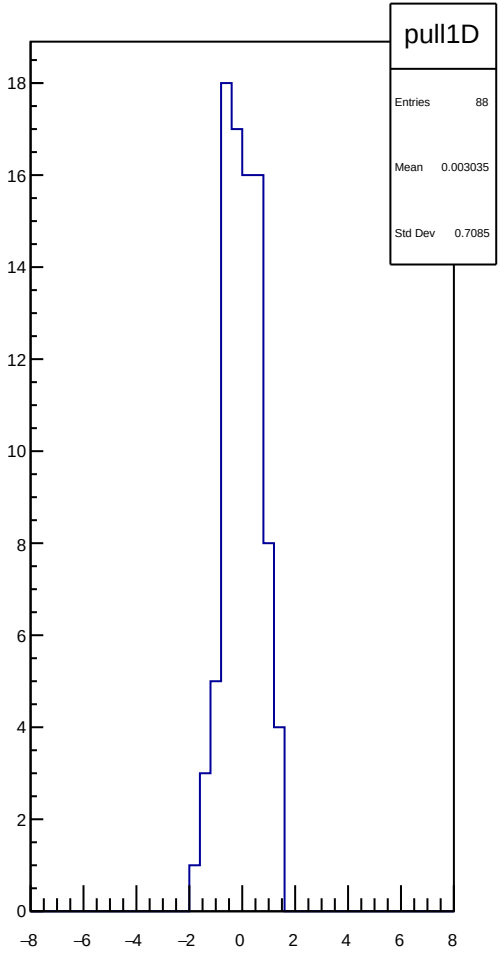

pull1D
Entries 88
Mean 0.0143
Std Dev 0.9558

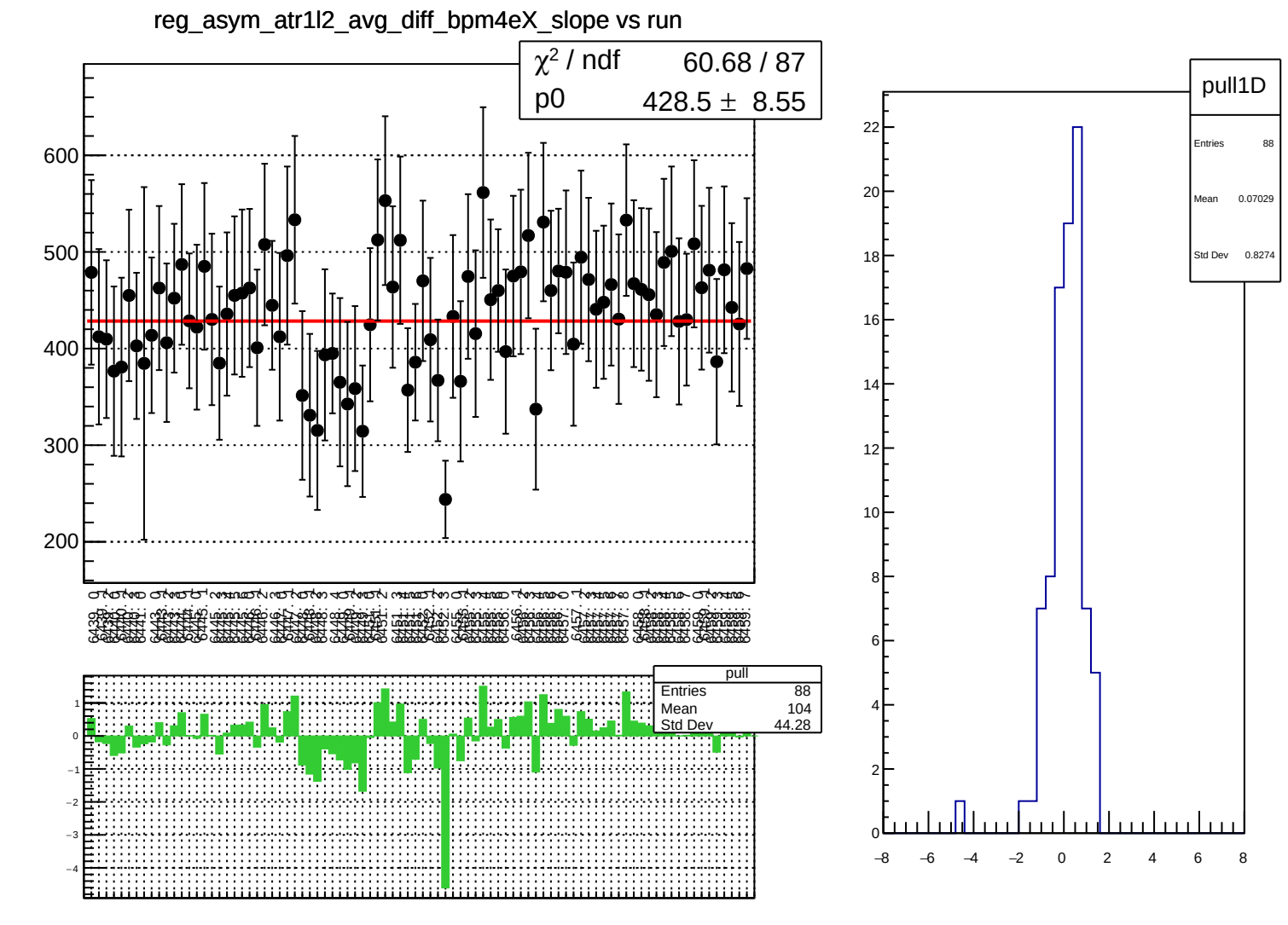

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 118.4 / 87
p0 128.4 ± 0.172
pull
Entries 88
Mean 645.6
Std Dev 611.9
pull1D
Entries 88
Mean 0.02546
Std Dev 1.16

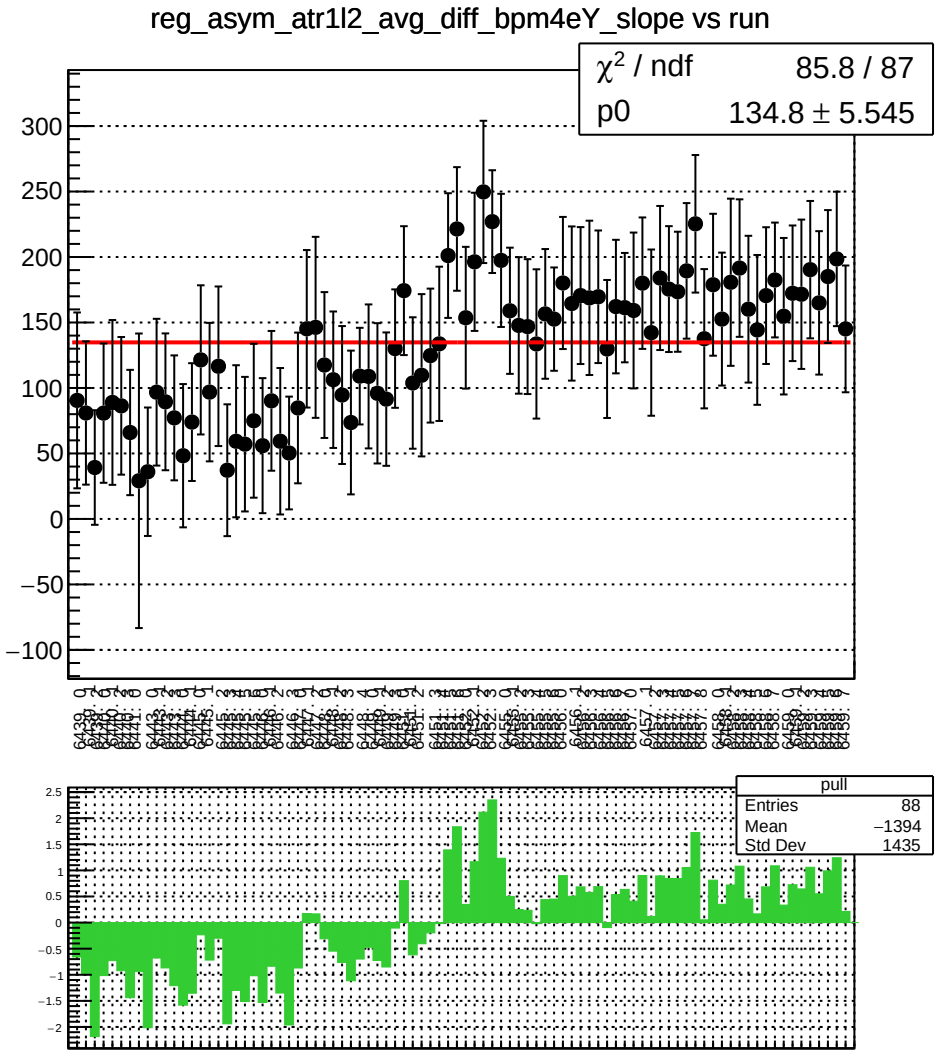

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 58.01 / 87
p0 −422.6 ± 7.873
pull
Entries 88
Mean 81.7
Std Dev 18.78

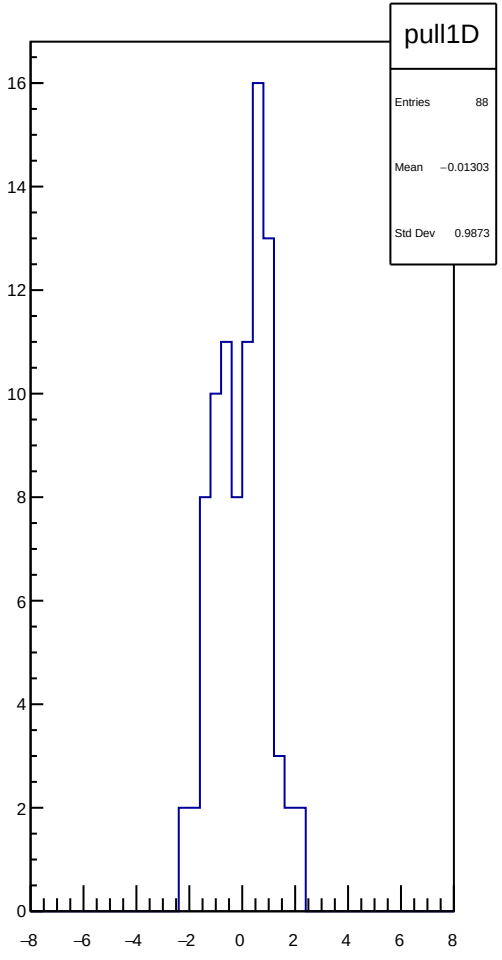

pull1D
Entries 88
Mean −0.07193
Std Dev 0.8087

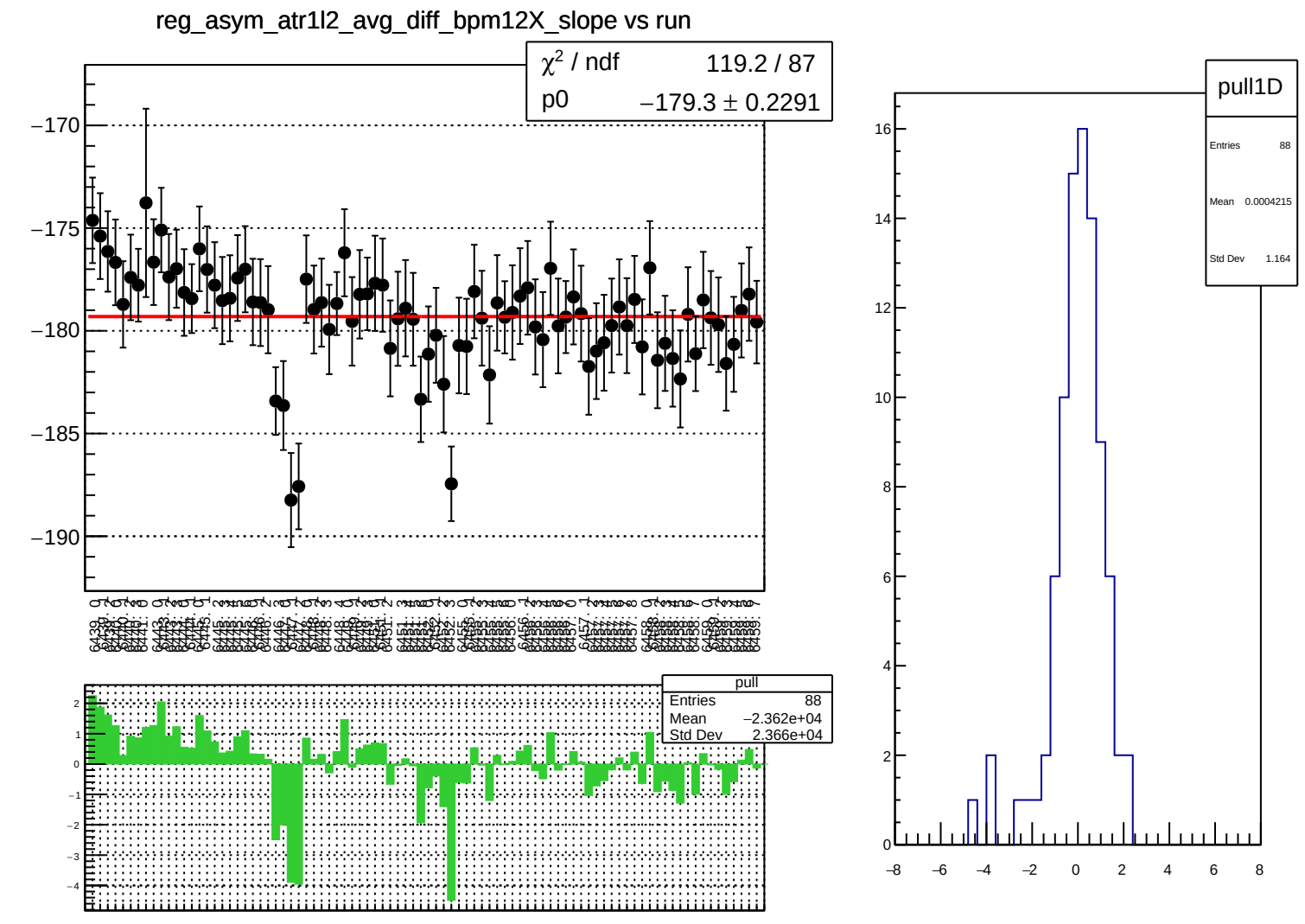

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.17 / 87
p0 −36.98 ± 5.522
pull
Entries 88
Mean −3757
Std Dev 3799

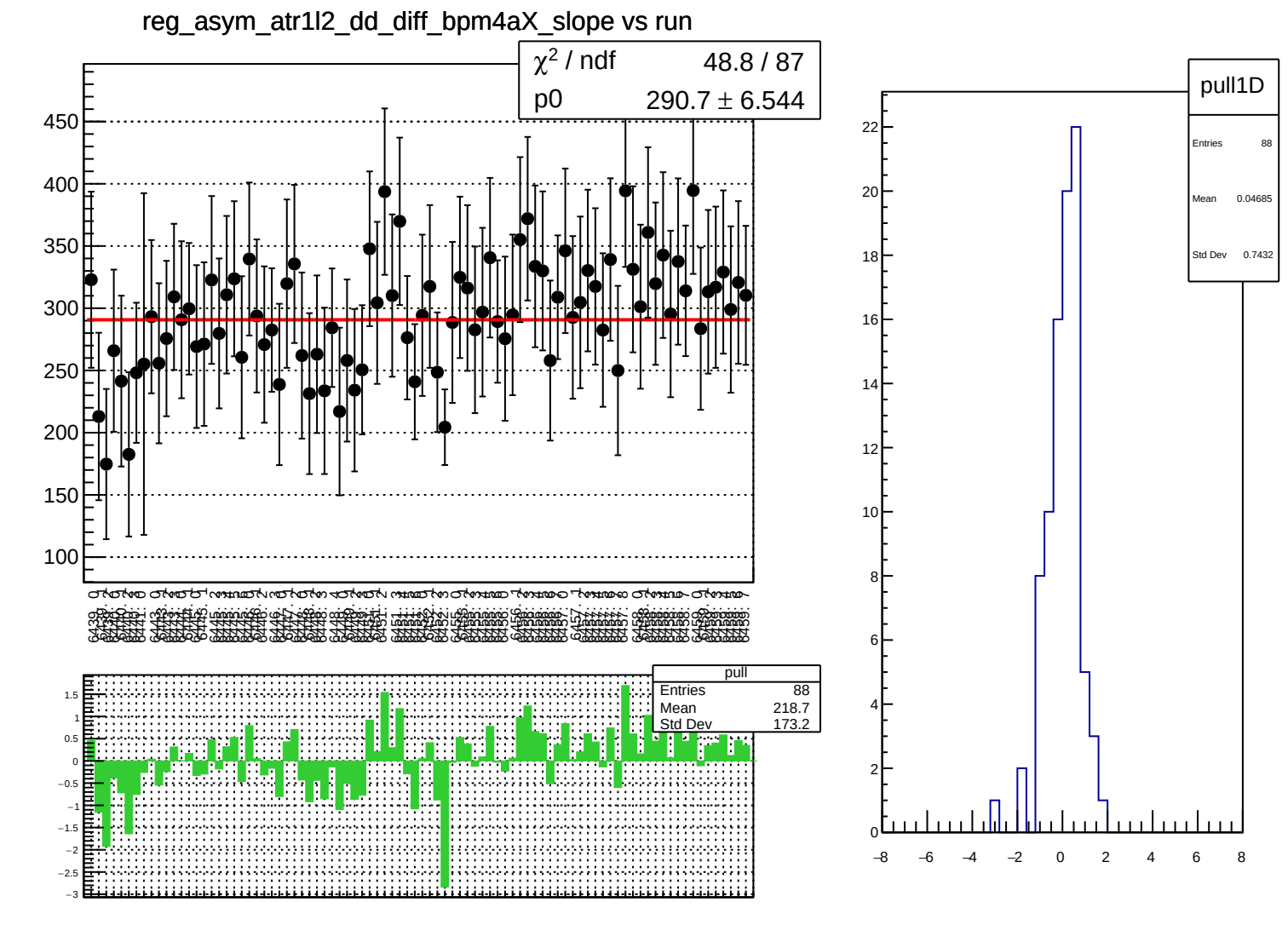

pull1D
Entries 88
Mean 0.003035
Std Dev 0.7085

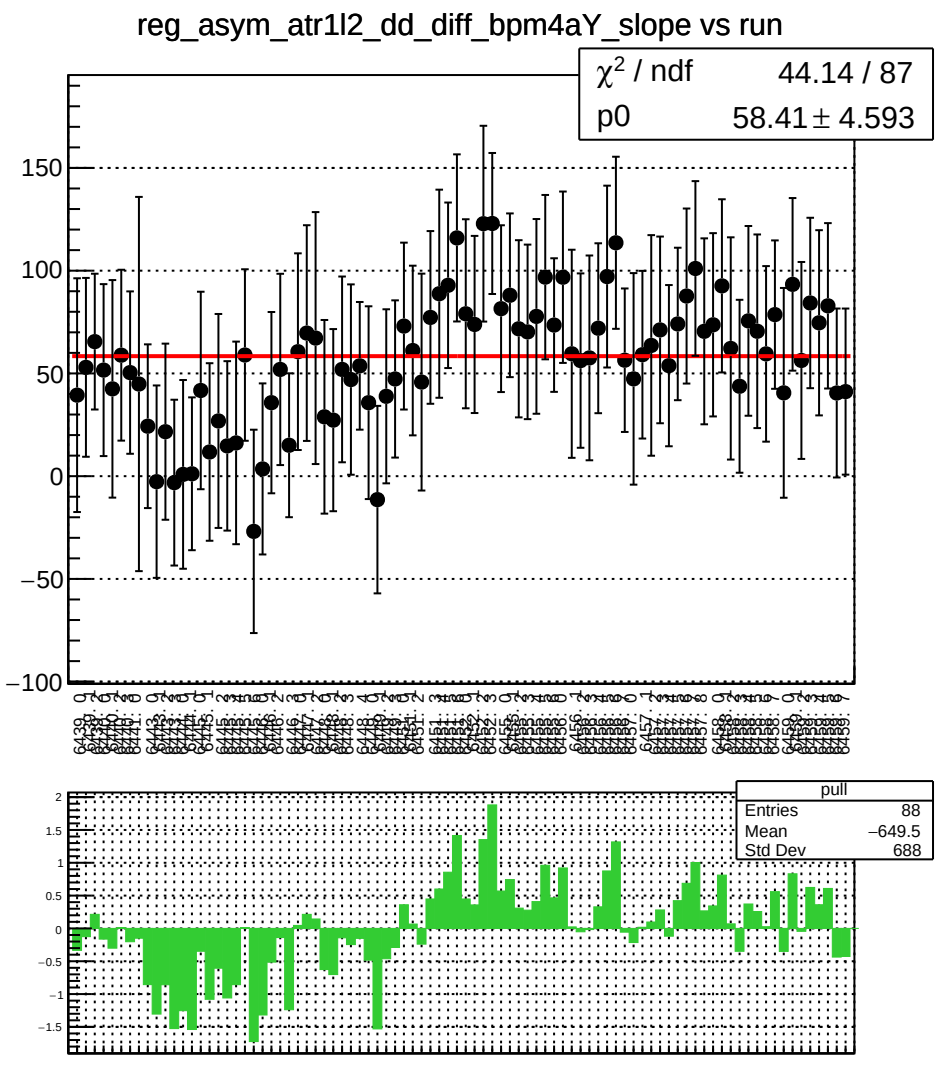

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.68 / 87
p0 428.5 ± 8.55
600
500
400
300
200
pull
Entries 88
Mean 104
Std Dev 44.28
1
0
−1
−2
−3
−4
pull1D
Entries 88
Mean 0.07029
Std Dev 0.8274
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

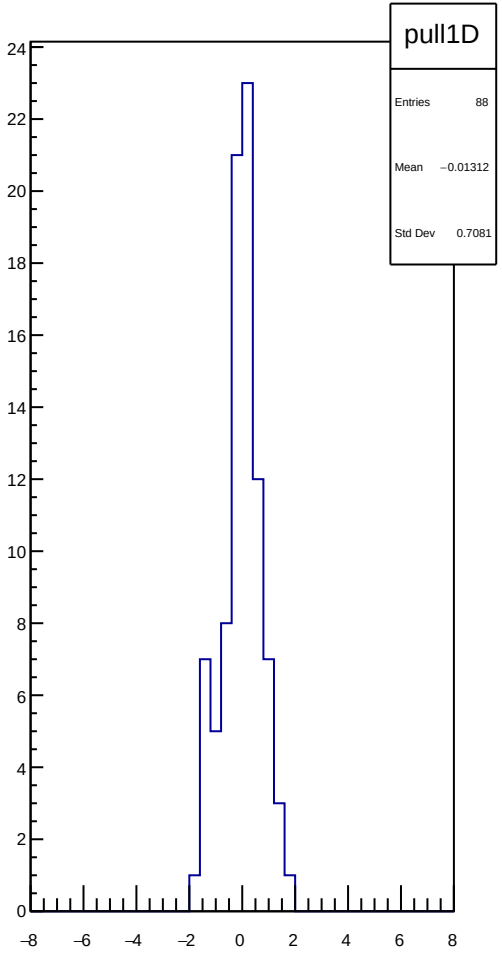

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 85.8 / 87
p0 134.8 ± 5.545
pull
Entries 88
Mean −1394
Std Dev 1435

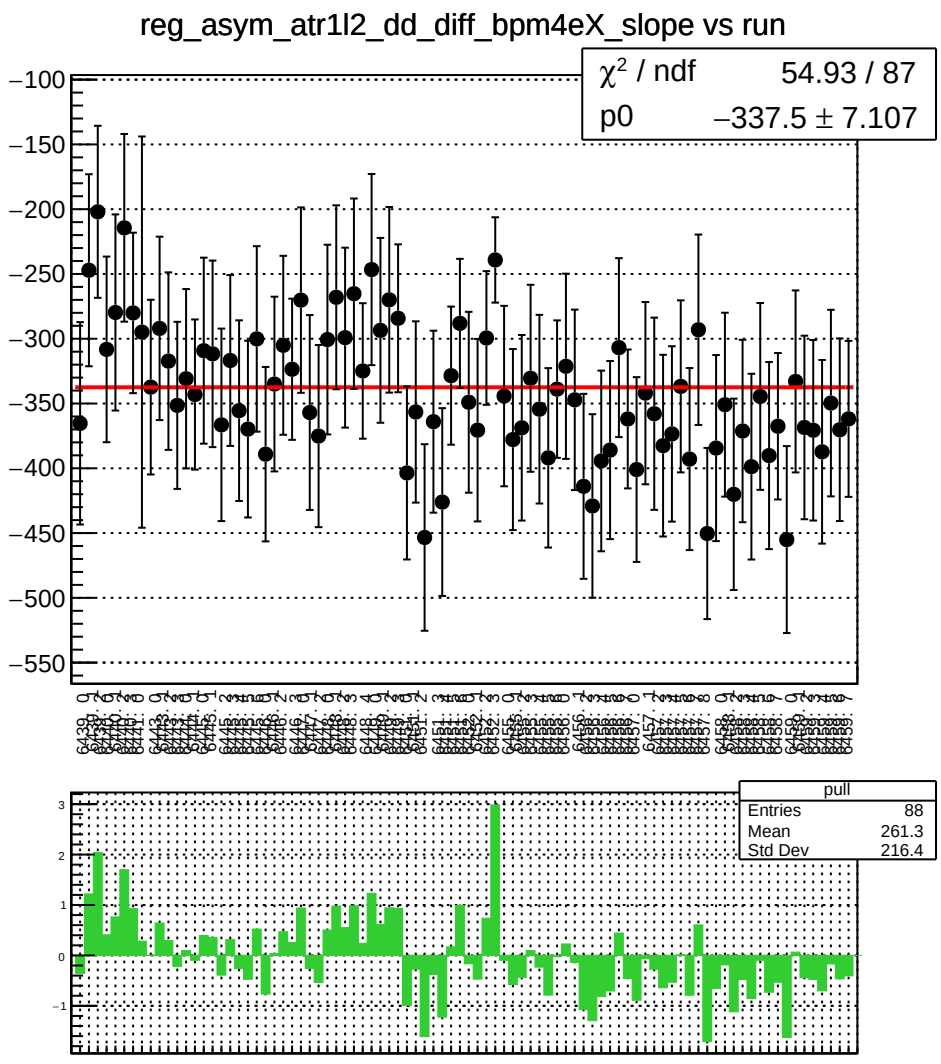

pull1D
Entries 88
Mean −0.01303
Std Dev 0.9873

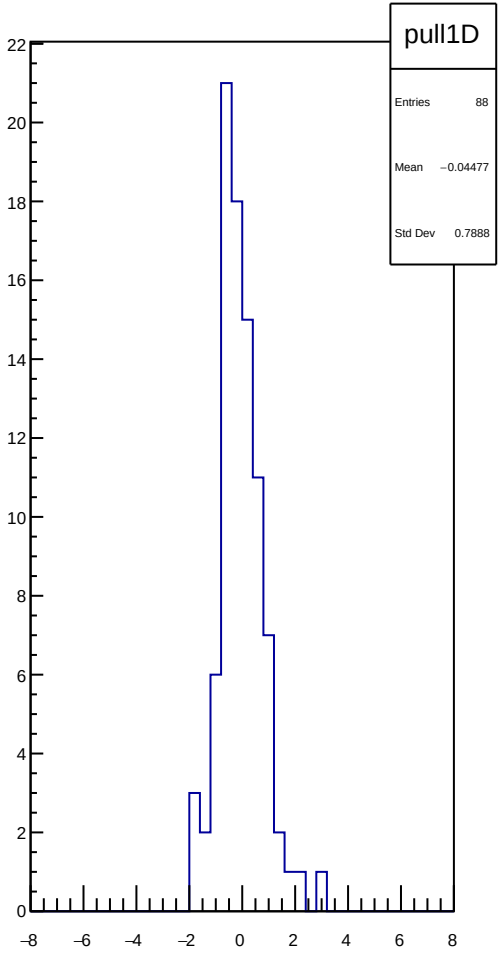

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 119.2 / 87
p0 −179.3 ± 0.2291
−170
−175
−180
−185
−190
pull
Entries 88
Mean −2.362e+04
Std Dev 2.366e+04
pull1D
Entries 88
Mean 0.0004215
Std Dev 1.164

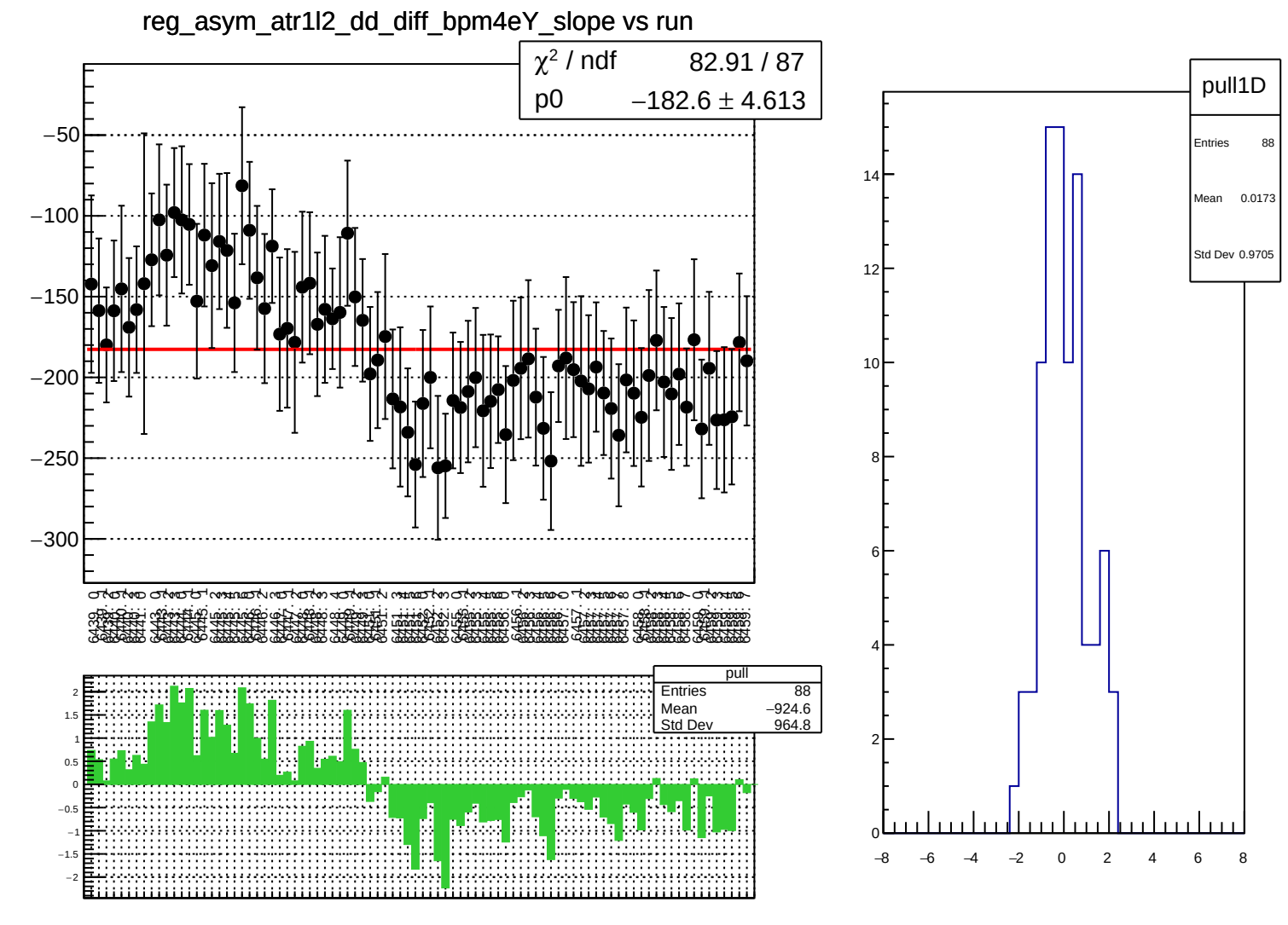

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 48.8 / 87
p0 290.7 ± 6.544
pull
Entries 88
Mean 218.7
Std Dev 173.2
pull1D
Entries 88
Mean 0.04685
Std Dev 0.7432

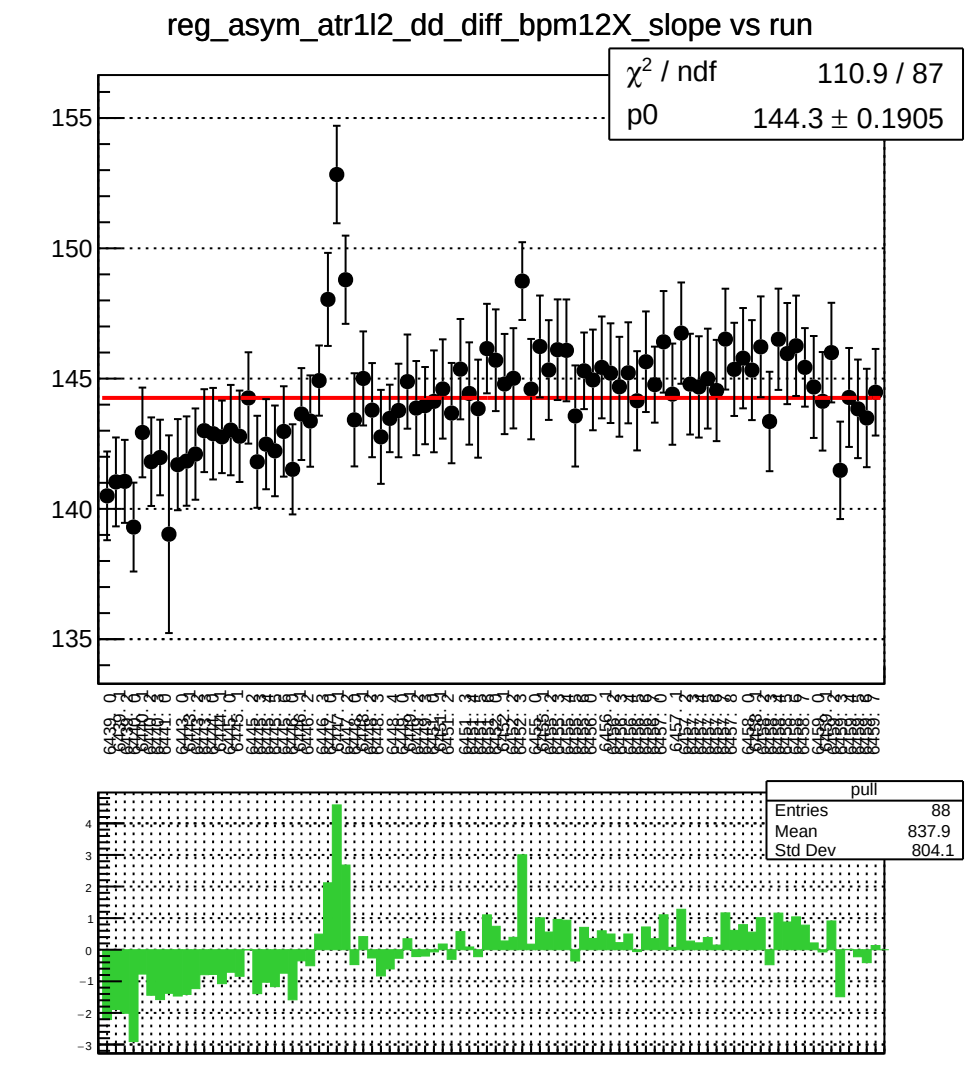

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 44.14 / 87
p0 58.41 ± 4.593
150
100
50
0
−50
−100
pull
Entries 88
Mean −649.5
Std Dev 688
2
1.5
1
0.5
0
−0.5
−1
−1.5

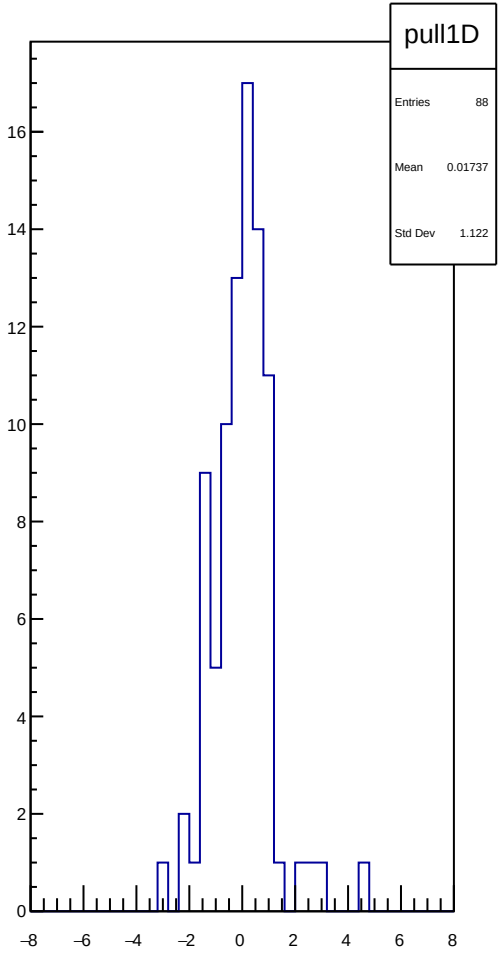

pull1D
Entries 88
Mean −0.01312
Std Dev 0.7081
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

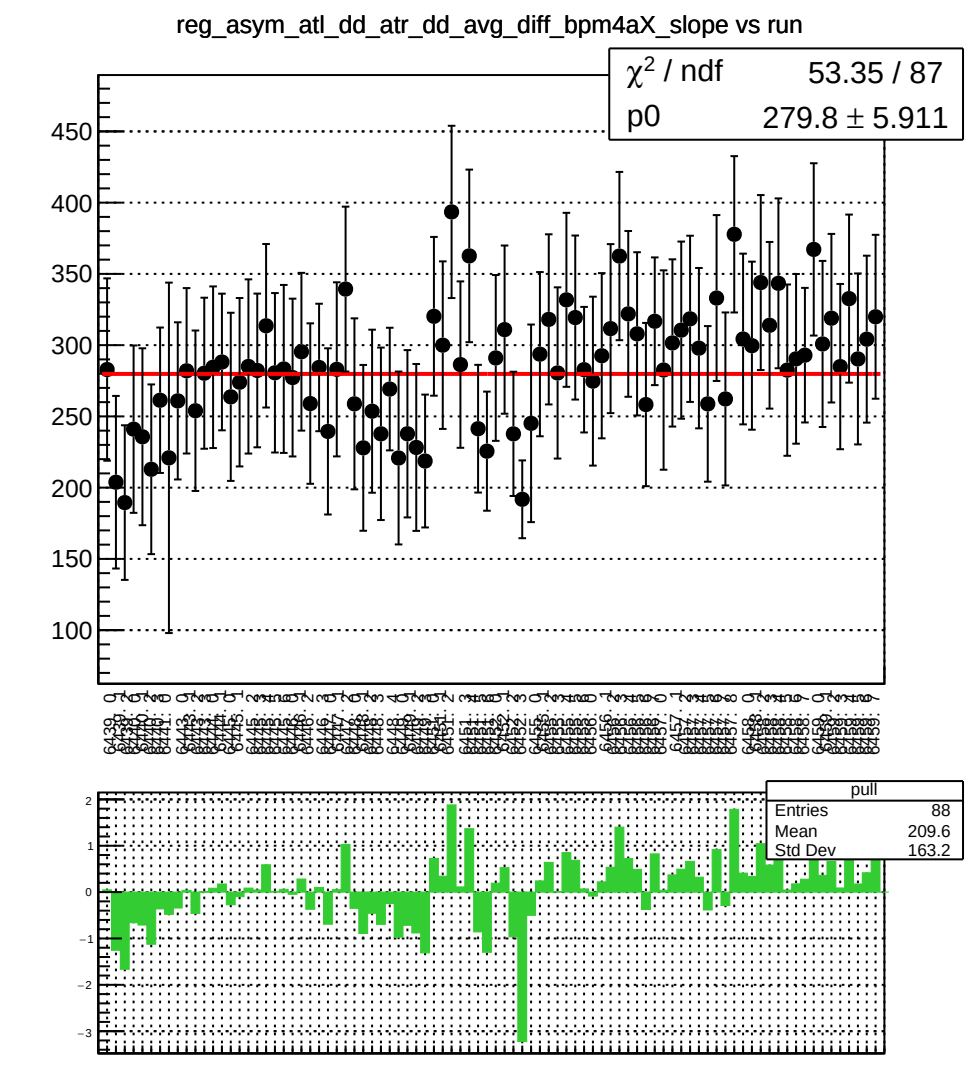

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.93 / 87
p0 −337.5 ± 7.107
pull
Entries 88
Mean 261.3
Std Dev 216.4

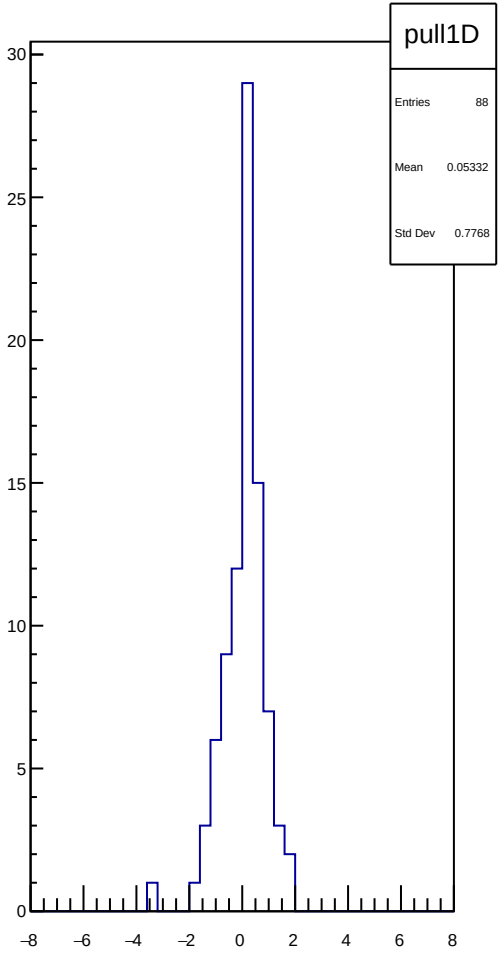

pull1D
Entries 88
Mean −0.04477
Std Dev 0.7888

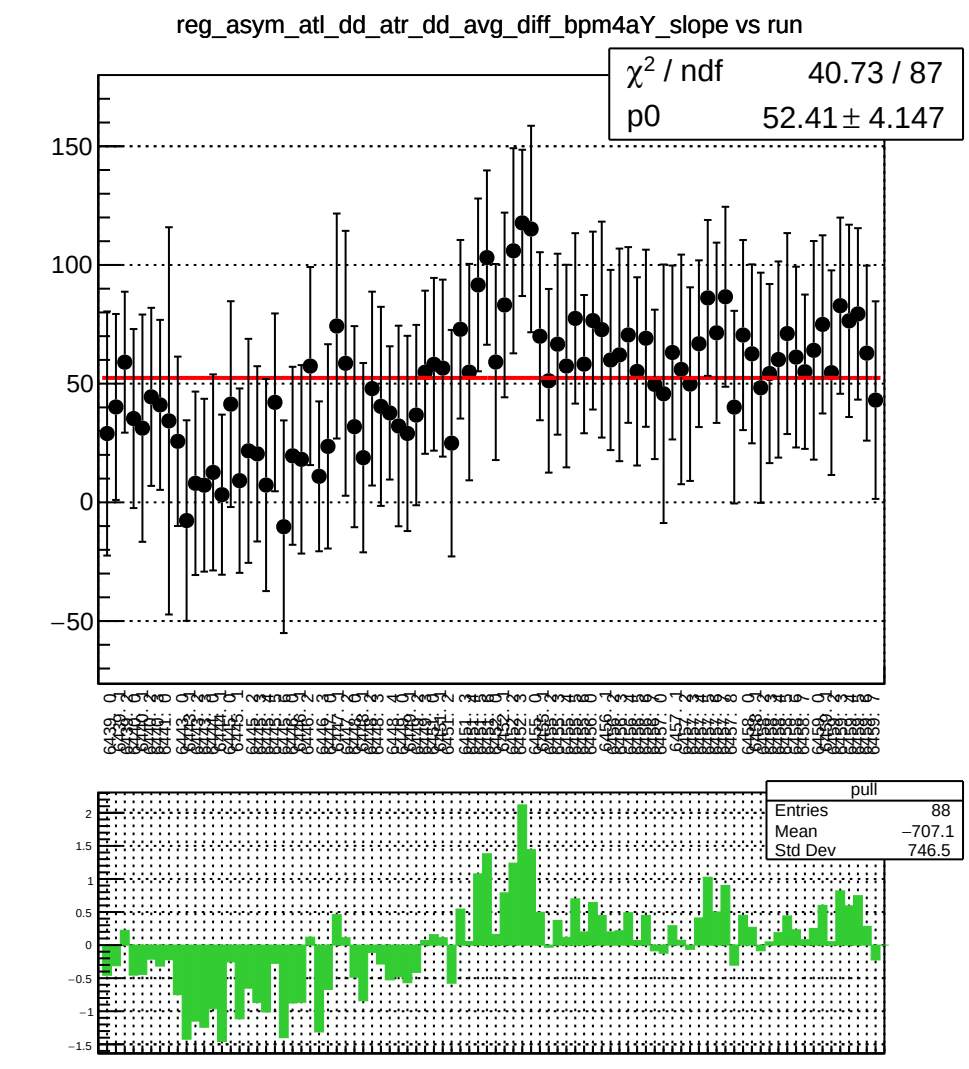

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.91 / 87
p0 −182.6 ± 4.613
pull
Entries 88
Mean −924.6
Std Dev 964.8
pull1D
Entries 88
Mean 0.0173
Std Dev 0.9705

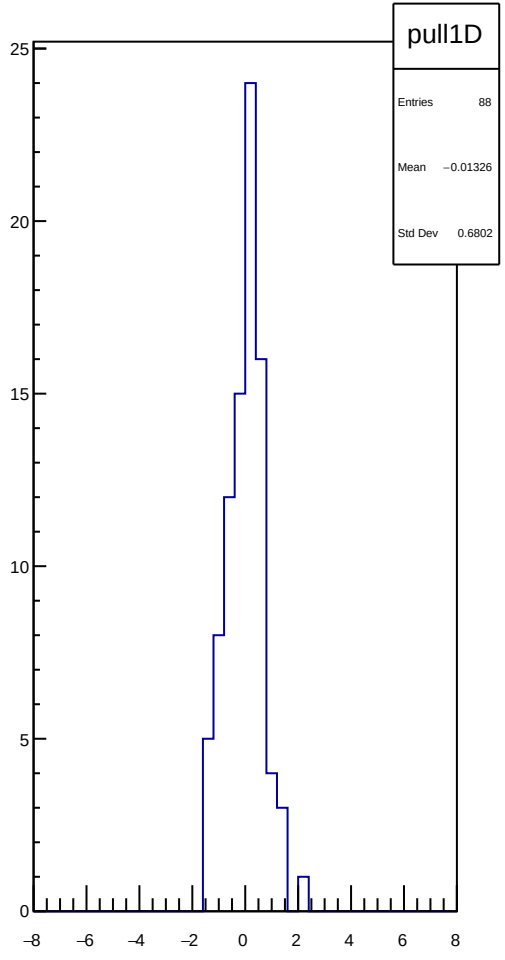

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 110.9 / 87
p0 144.3 ± 0.1905
155
150
145
140
135
pull
Entries 88
Mean 837.9
Std Dev 804.1
4
3
2
1
0
−1
−2
−3

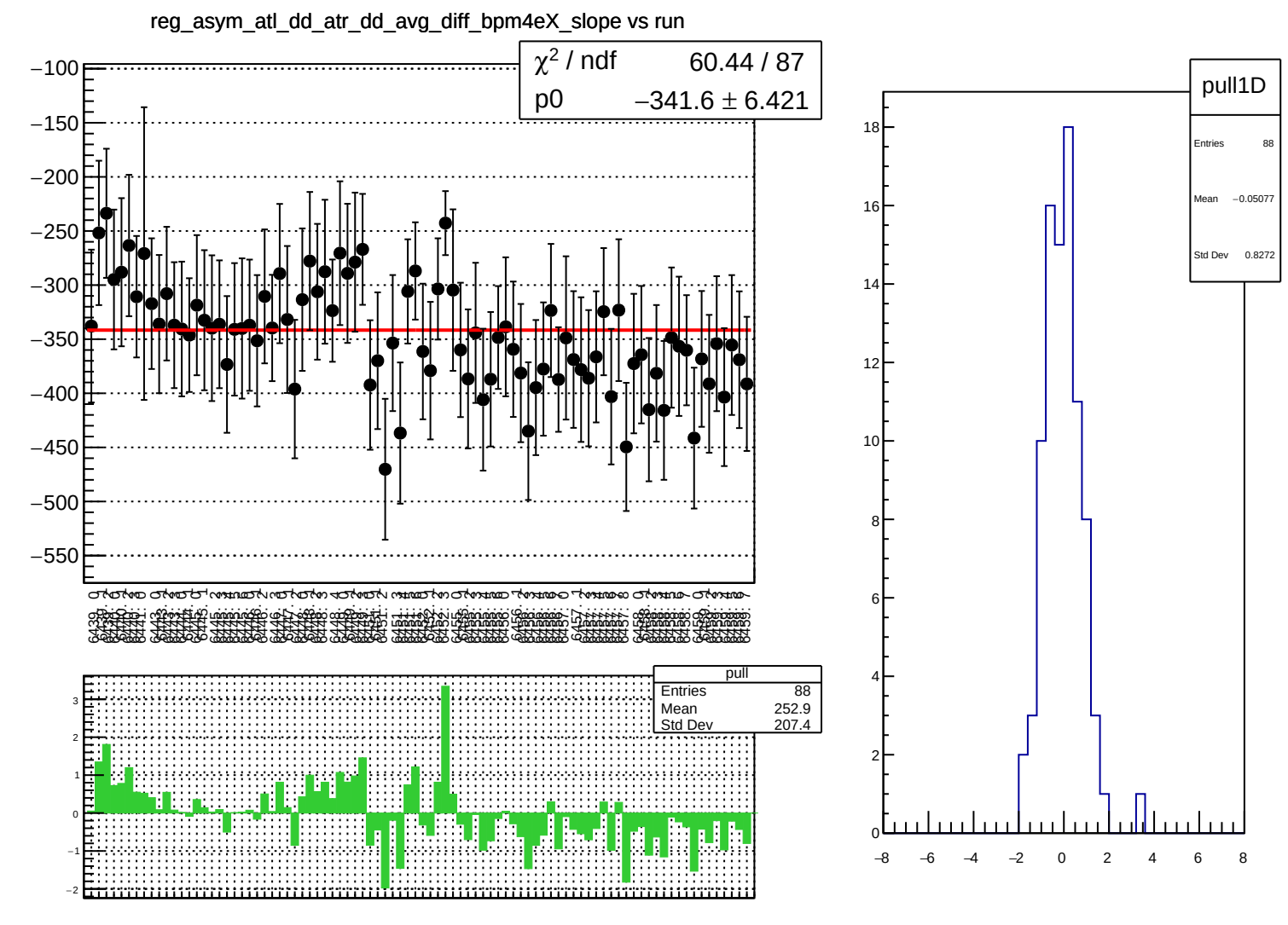

pull1D
Entries 88
Mean 0.01737
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

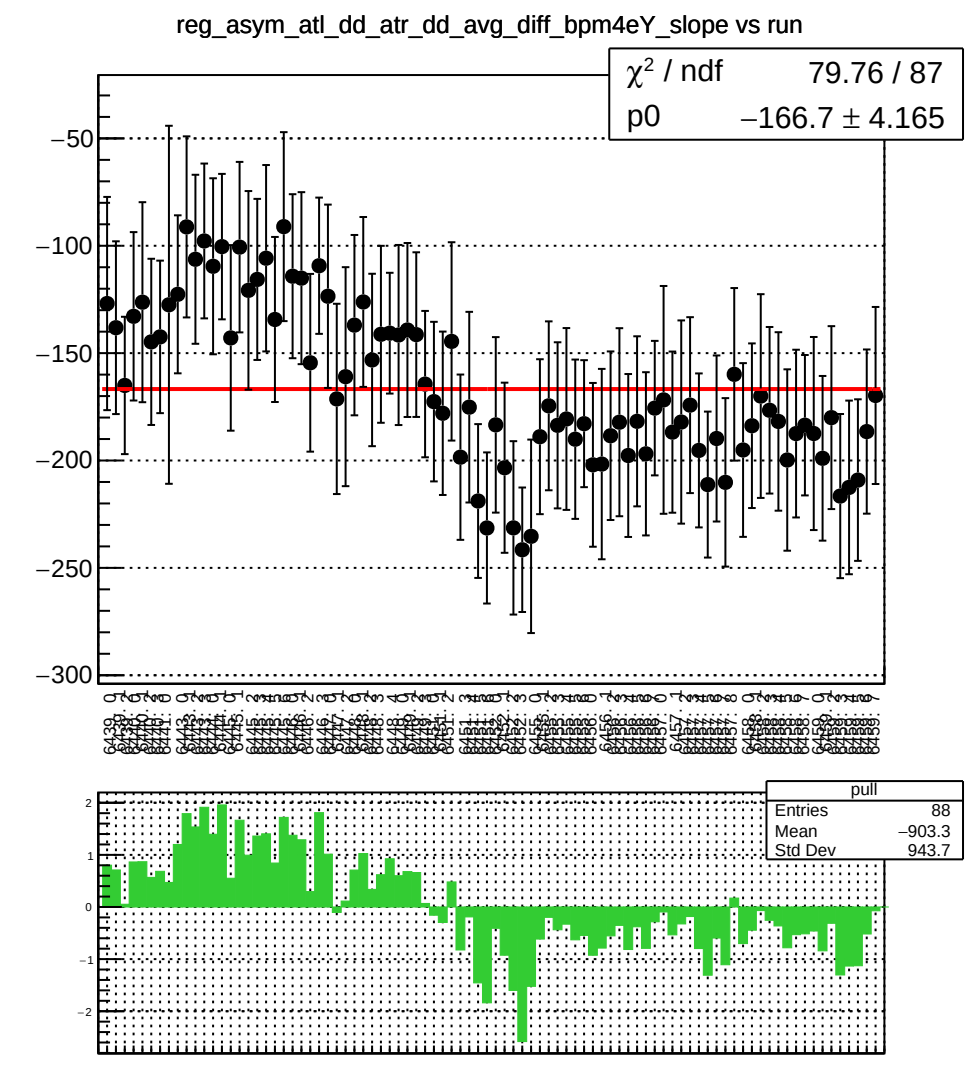

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 53.35 / 87
p0 279.8 ± 5.911
pull
Entries 88
Mean 209.6
Std Dev 163.2

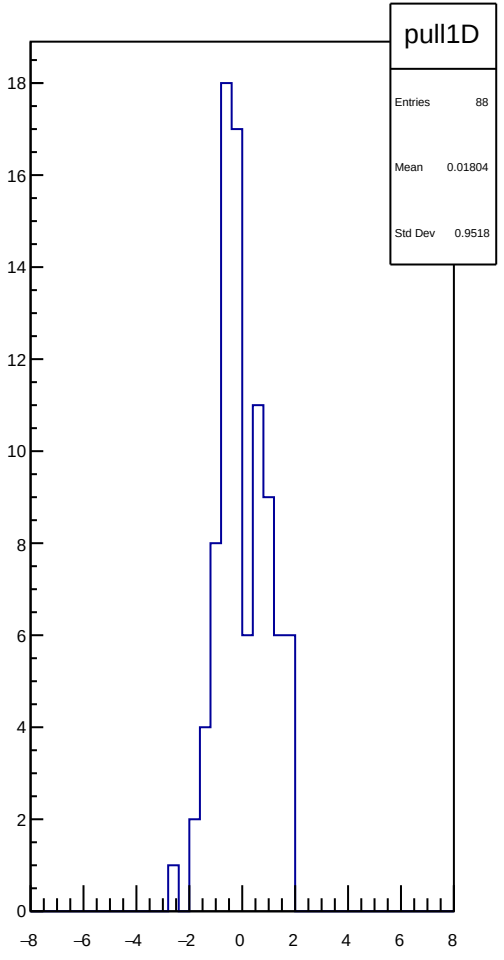

pull1D
Entries 88
Mean 0.05332
Std Dev 0.7768

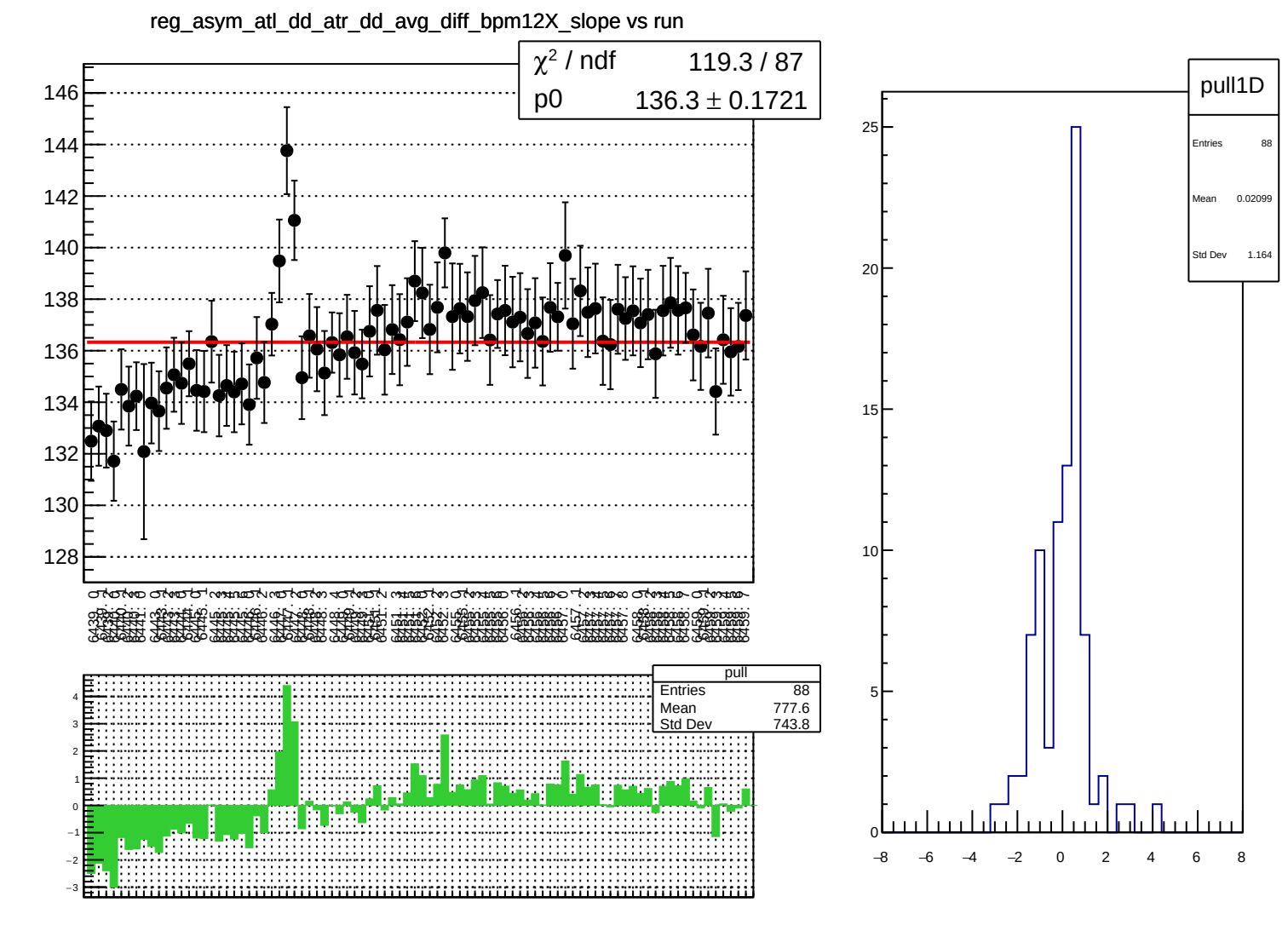

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.73 / 87
p0 52.41 ± 4.147
150
100
50
0
−50
pull
Entries 88
Mean −707.1
Std Dev 746.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

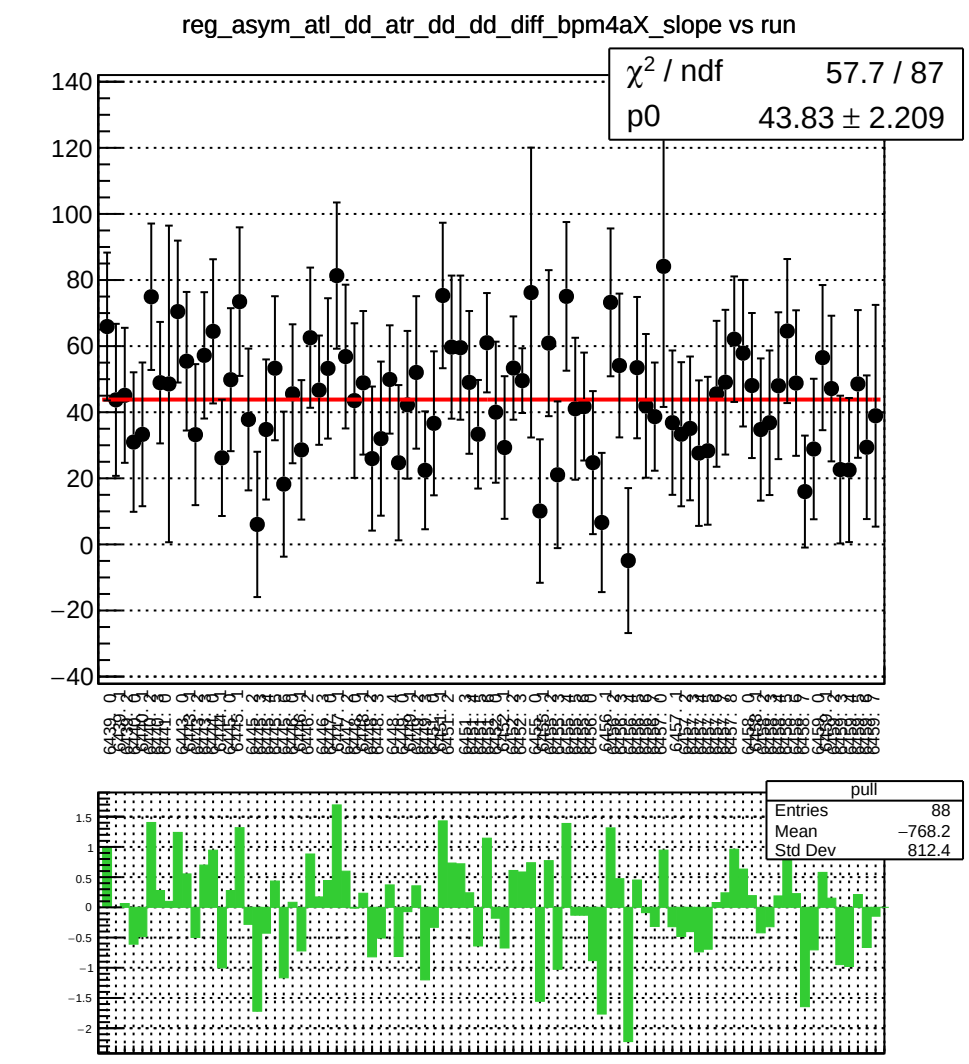

pull1D
Entries 88
Mean −0.01326
Std Dev 0.6802
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

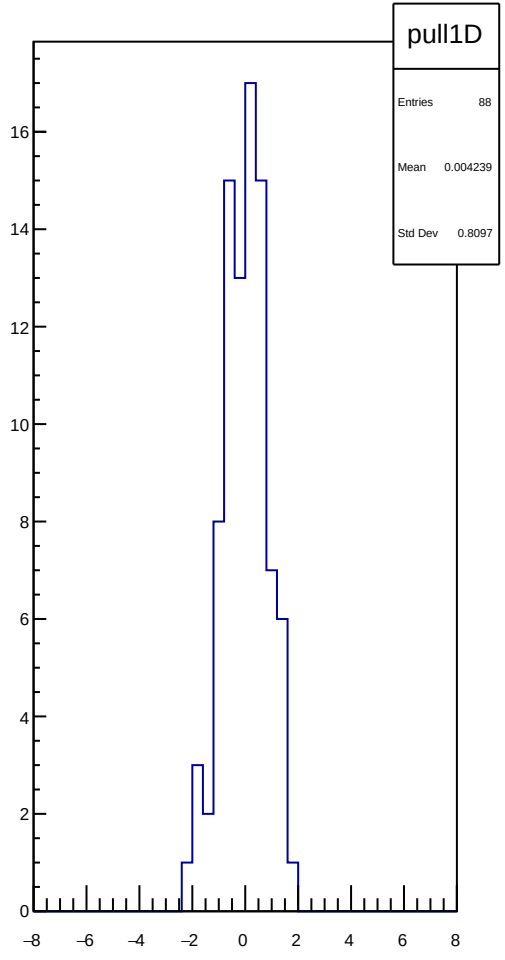

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.44 / 87
p0 −341.6 ± 6.421
pull
Entries 88
Mean 252.9
Std Dev 207.4
pull1D
Entries 88
Mean −0.05077
Std Dev 0.8272

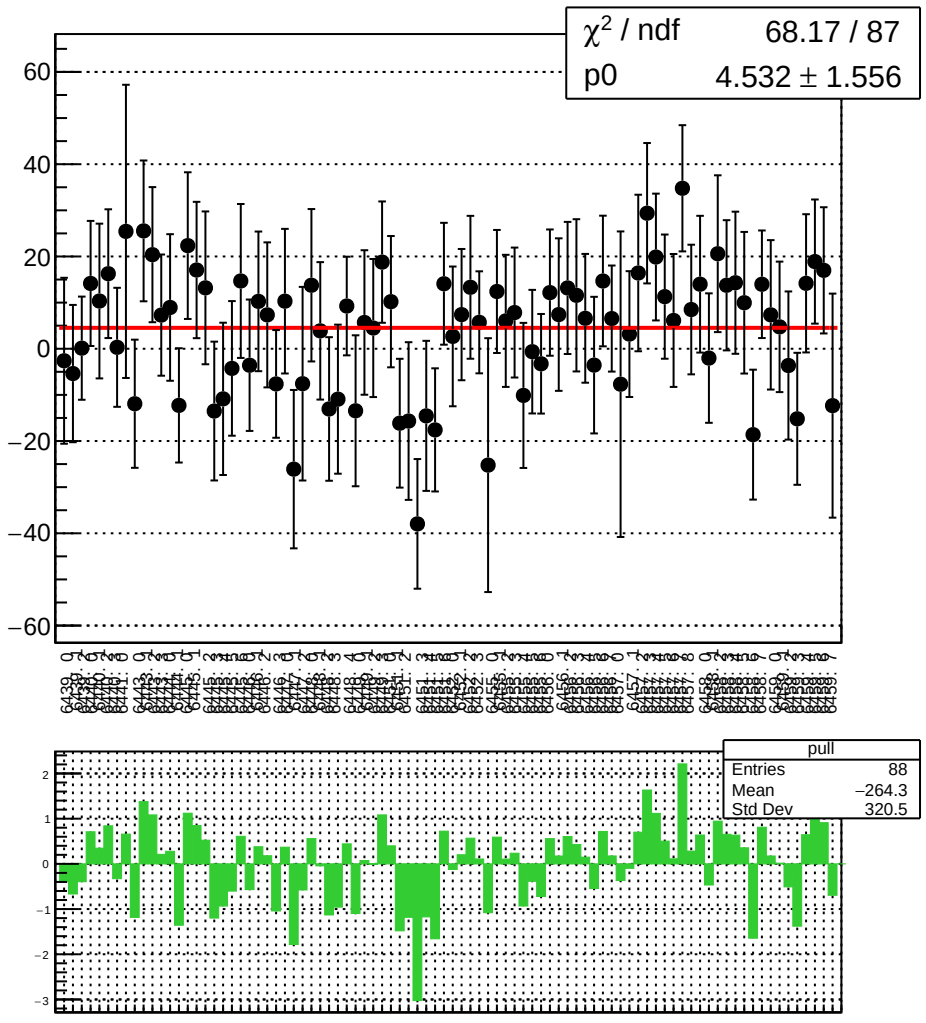

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.76 / 87
p0 −166.7 ± 4.165
pull
Entries 88
Mean −903.3
Std Dev 943.7

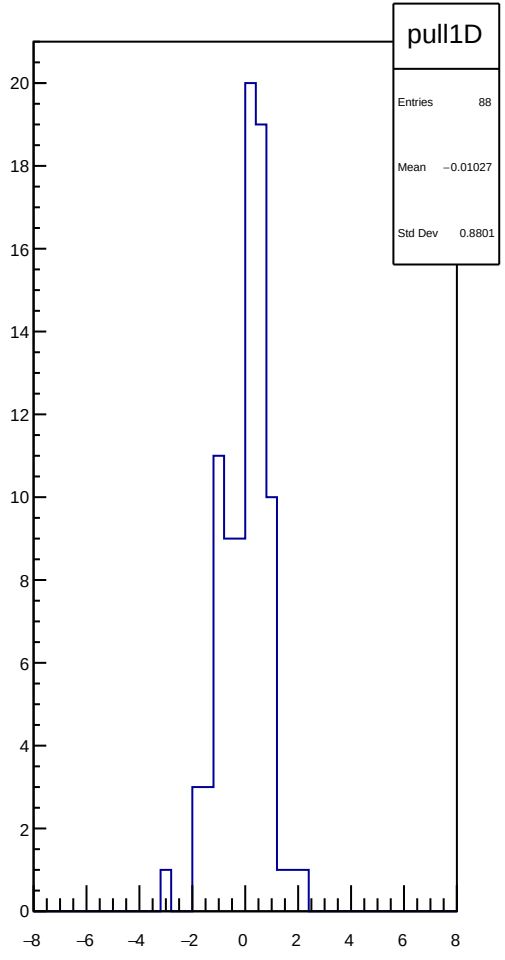

pull1D
Entries 88
Mean 0.01804
Std Dev 0.9518

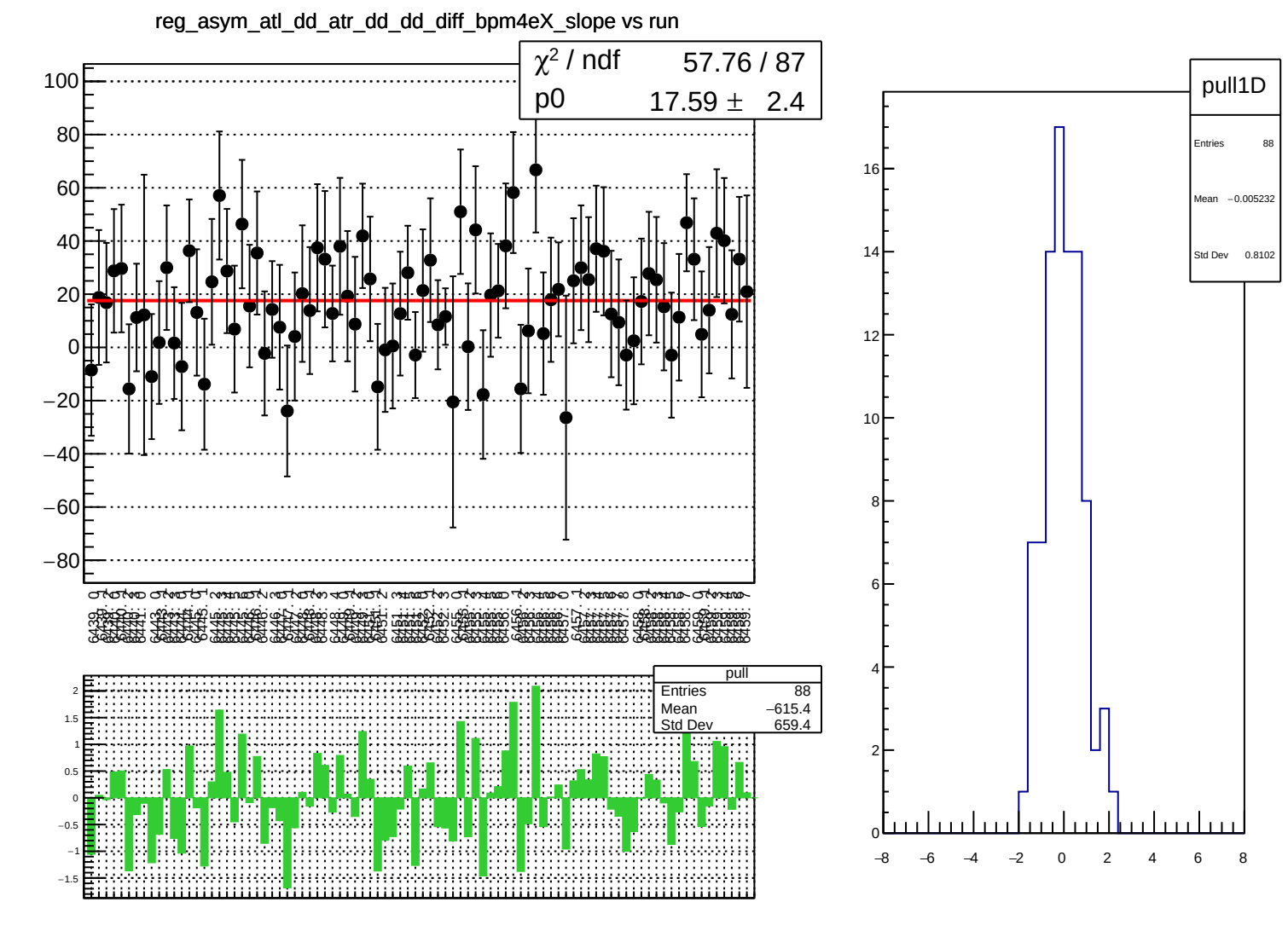

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 119.3 / 87
p0 136.3 ± 0.1721
pull
Entries 88
Mean 777.6
Std Dev 743.8
pull1D
Entries 88
Mean 0.02099
Std Dev 1.164

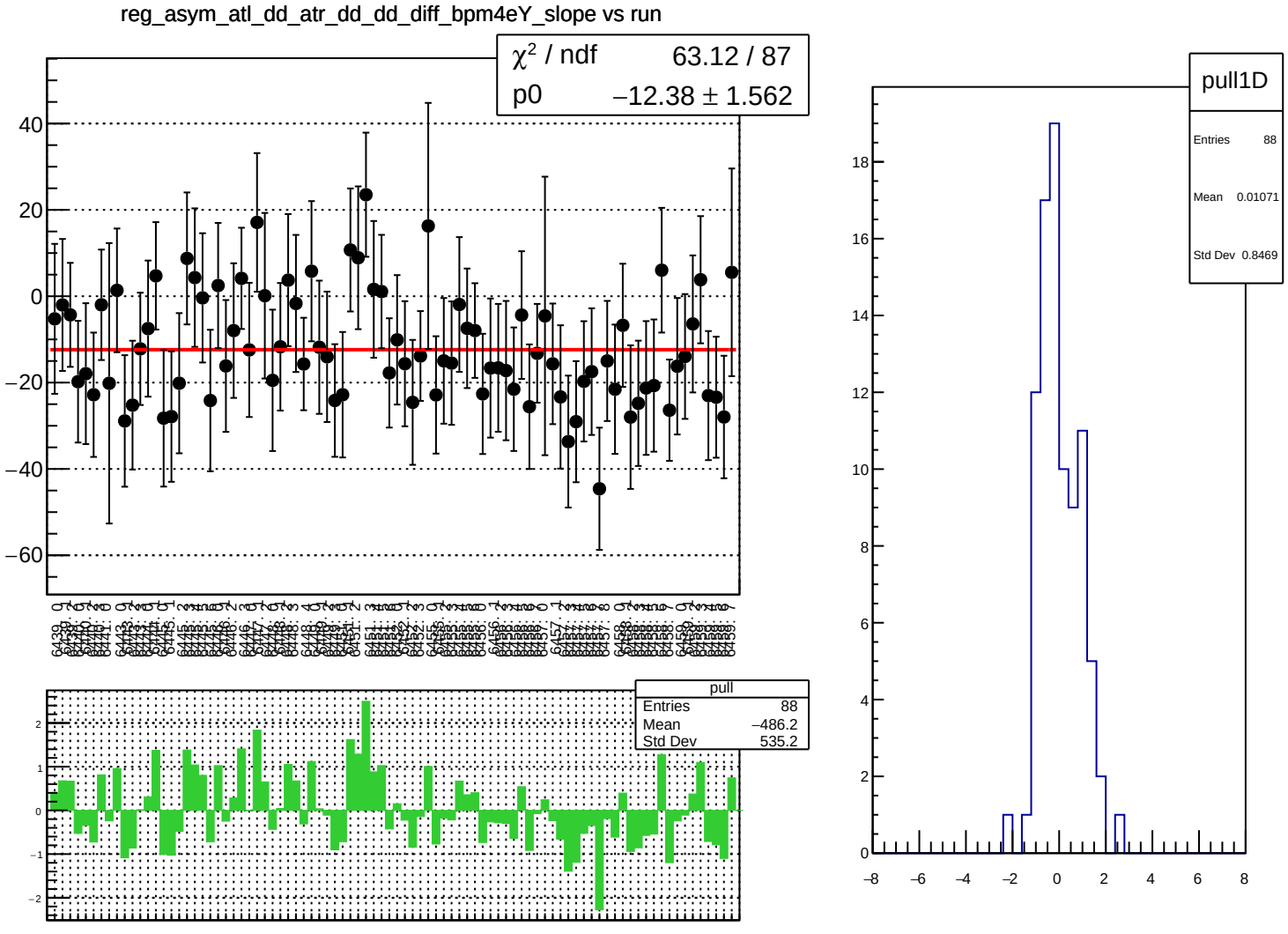

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 57.7 / 87
p0 43.83 ± 2.209
pull
Entries 88
Mean −768.2
Std Dev 812.4

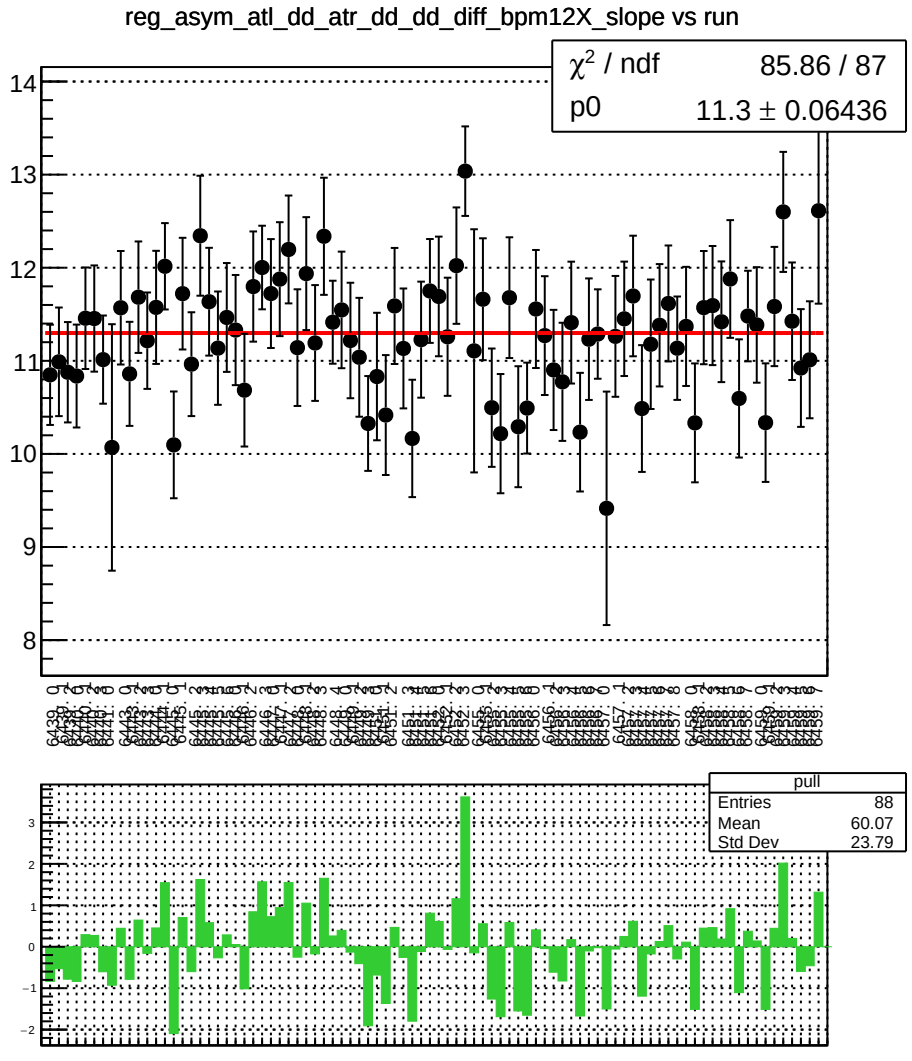

pull1D
Entries 88
Mean 0.004239
Std Dev 0.8097

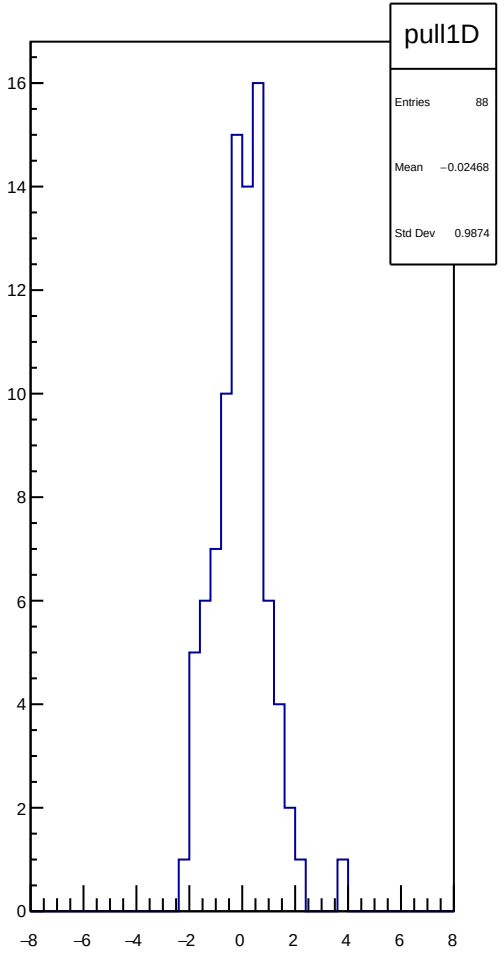

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 68.17 / 87
p0 4.532 ± 1.556
pull
Entries 88
Mean −264.3
Std Dev 320.5

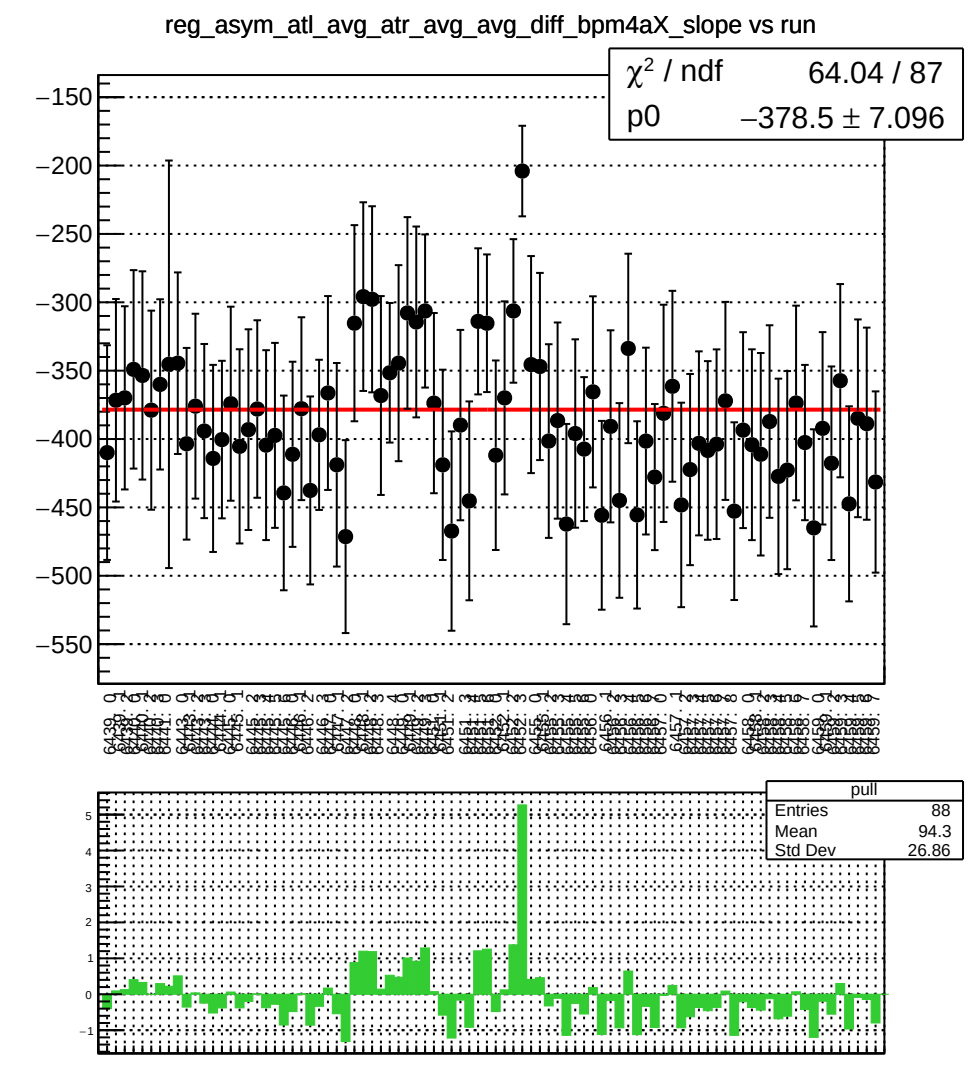

pull1D
Entries 88
Mean −0.01027
Std Dev 0.8801

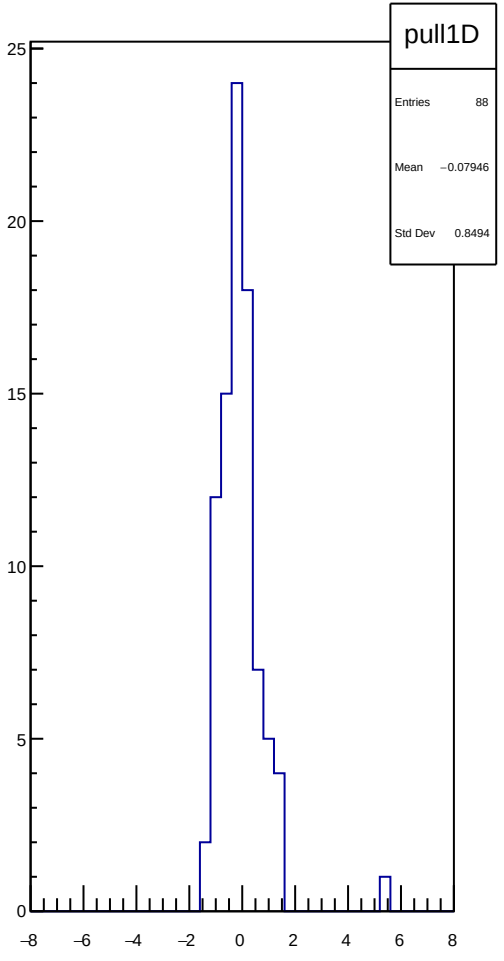

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.76 / 87
p0 17.59 ± 2.4
pull
Entries 88
Mean −615.4
Std Dev 659.4
pull1D
Entries 88
Mean −0.005232
Std Dev 0.8102

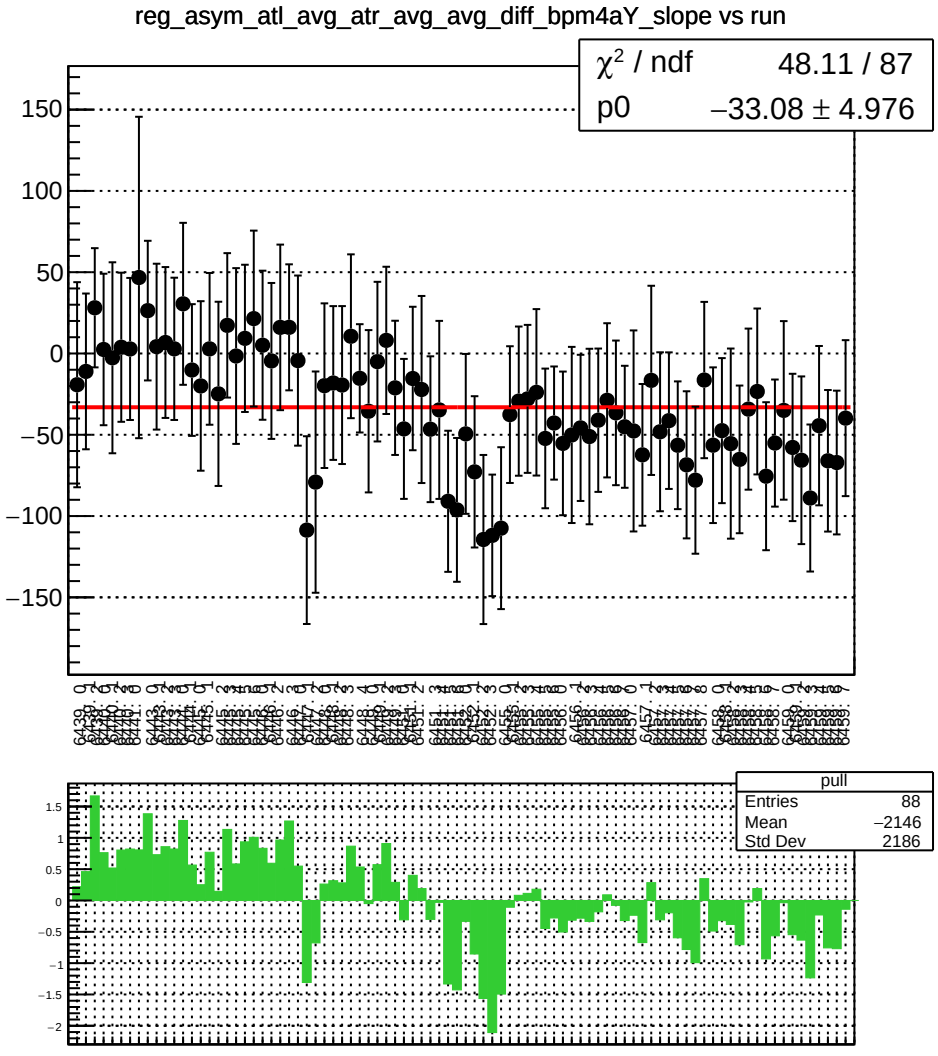

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 63.12 / 87
p0 −12.38 ± 1.562
pull
Entries 88
Mean −486.2
Std Dev 535.2
pull1D
Entries 88
Mean 0.01071
Std Dev 0.8469

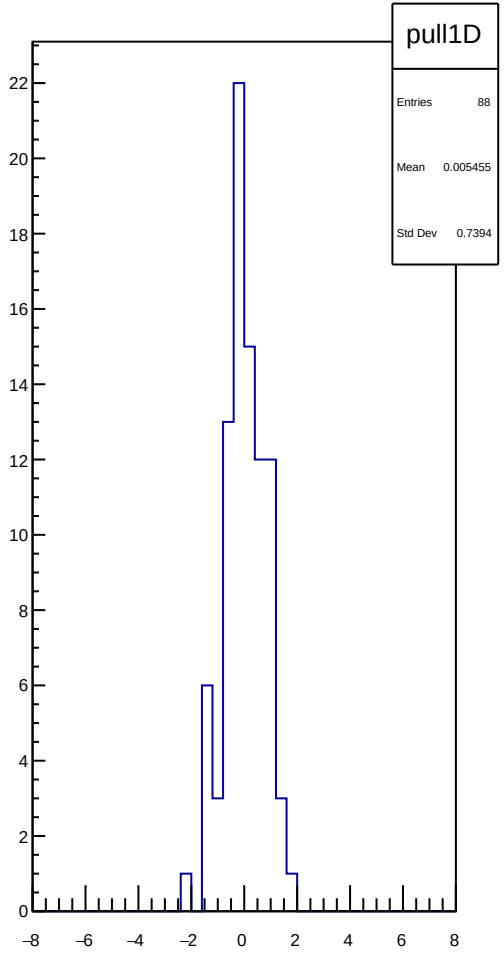

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 85.86 / 87
p0 11.3 ± 0.06436
pull
Entries 88
Mean 60.07
Std Dev 23.79

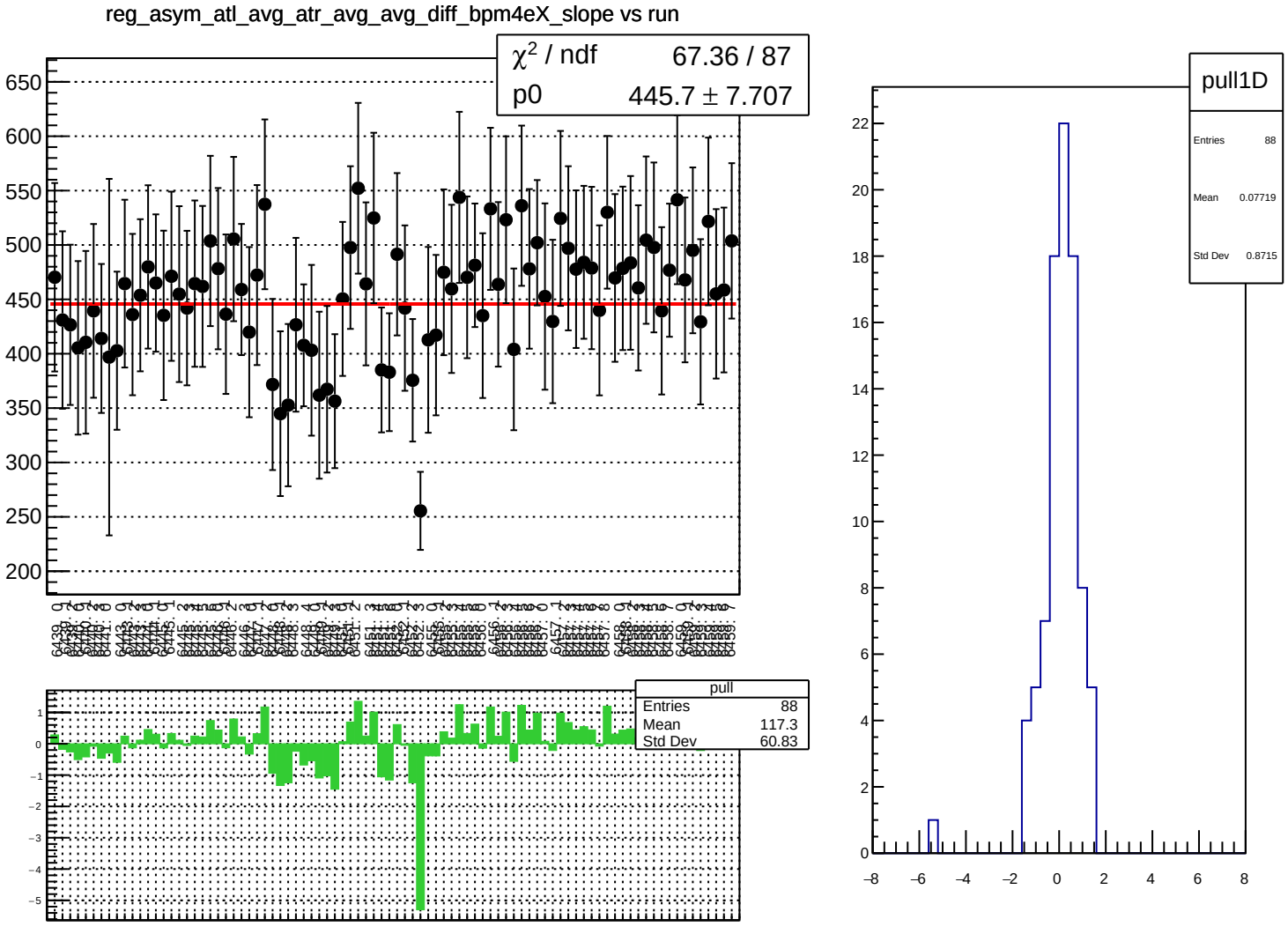

pull1D
Entries 88
Mean −0.02468
Std Dev 0.9874

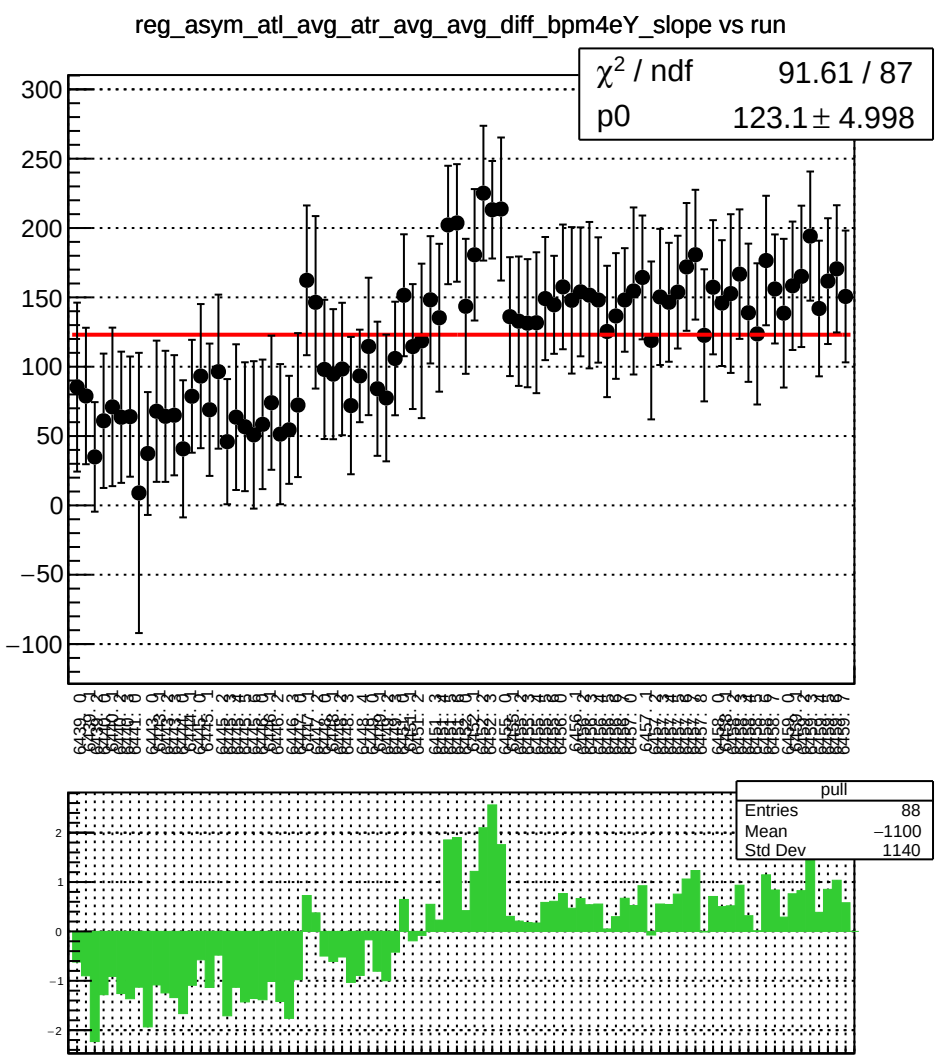

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 64.04 / 87
p0 −378.5 ± 7.096
pull
Entries 88
Mean 94.3
Std Dev 26.86

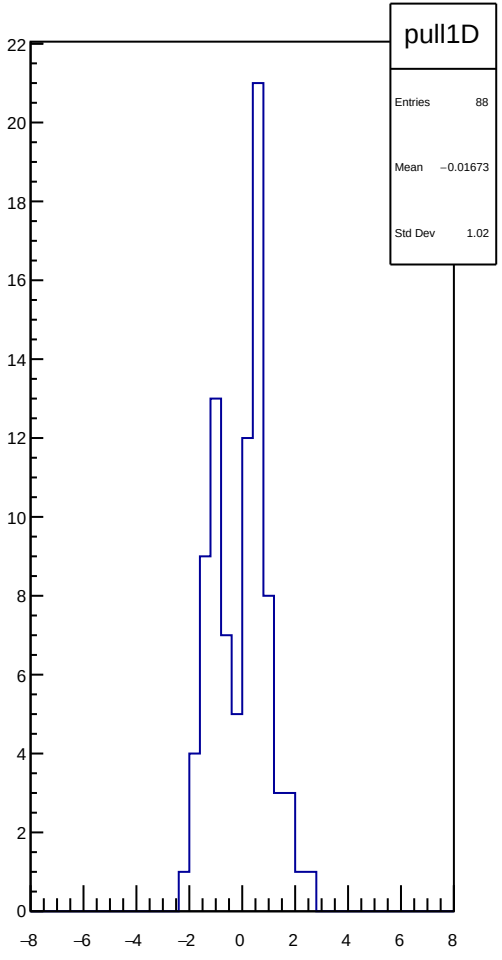

pull1D
Entries 88
Mean −0.07946
Std Dev 0.8494

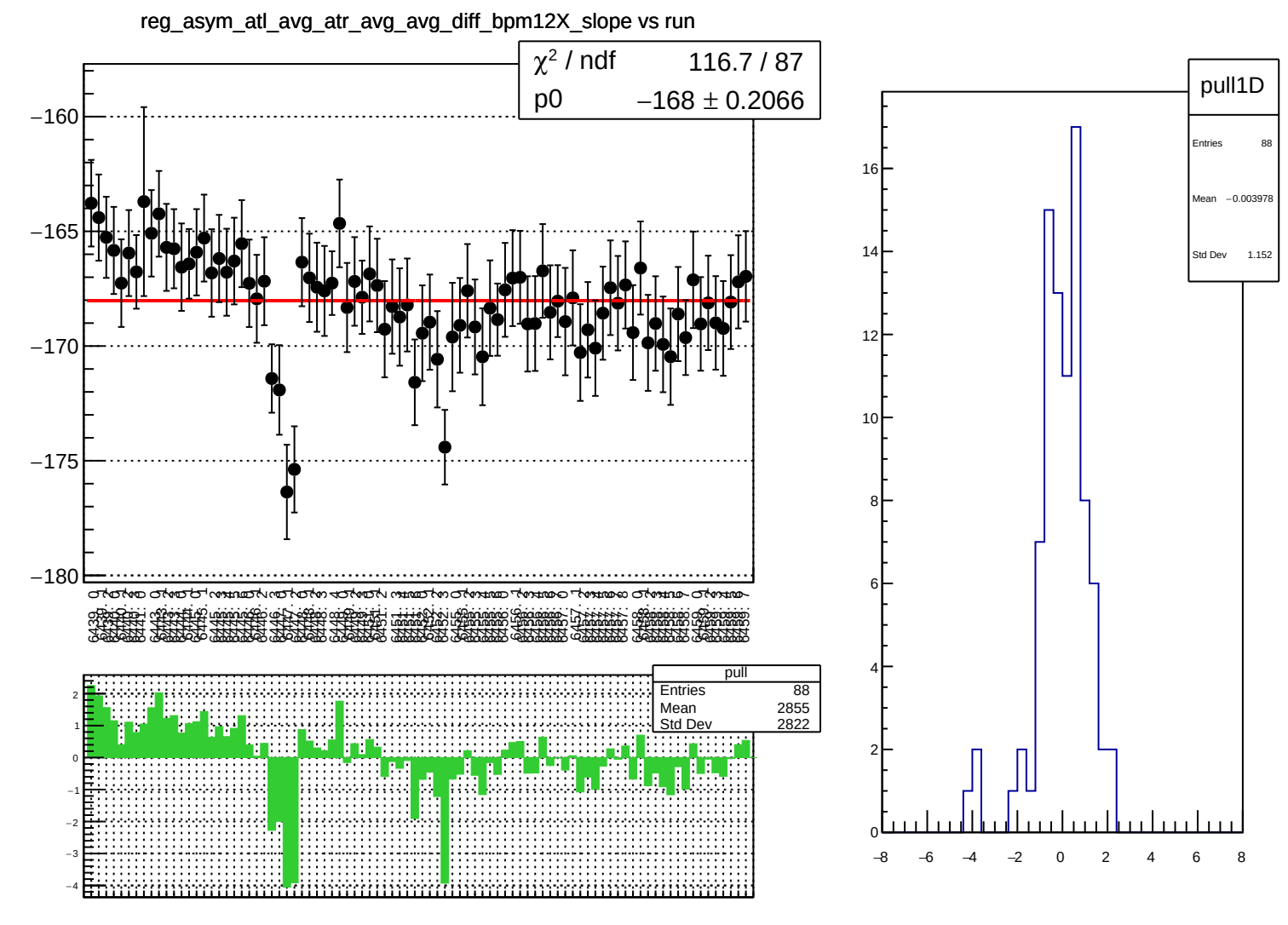

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.11 / 87
p0 −33.08 ± 4.976
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −2146
Std Dev 2186
1.5
1
0.5
0
−0.5
−1
−1.5
−2

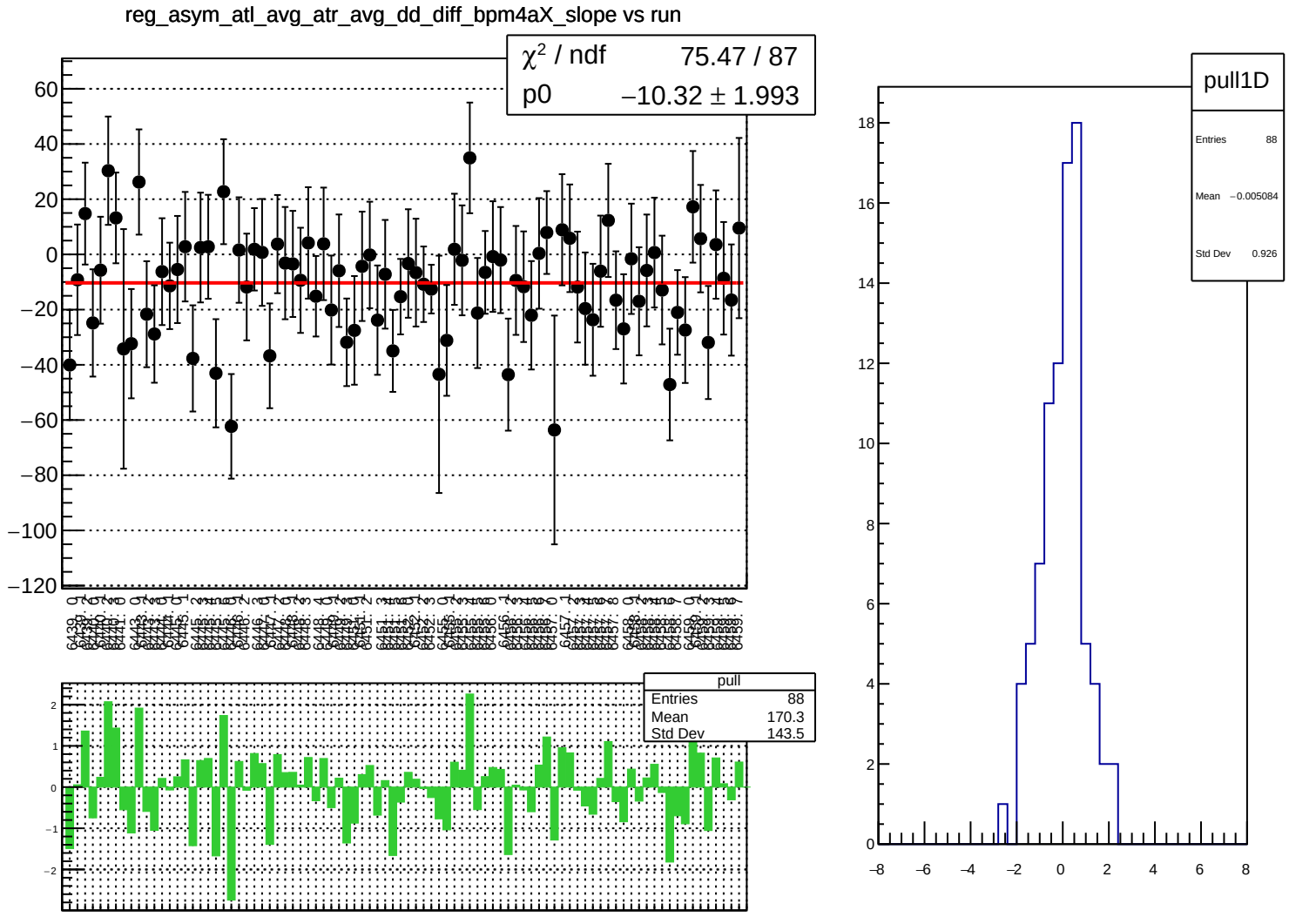

pull1D
Entries 88
Mean 0.005455
Std Dev 0.7394
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

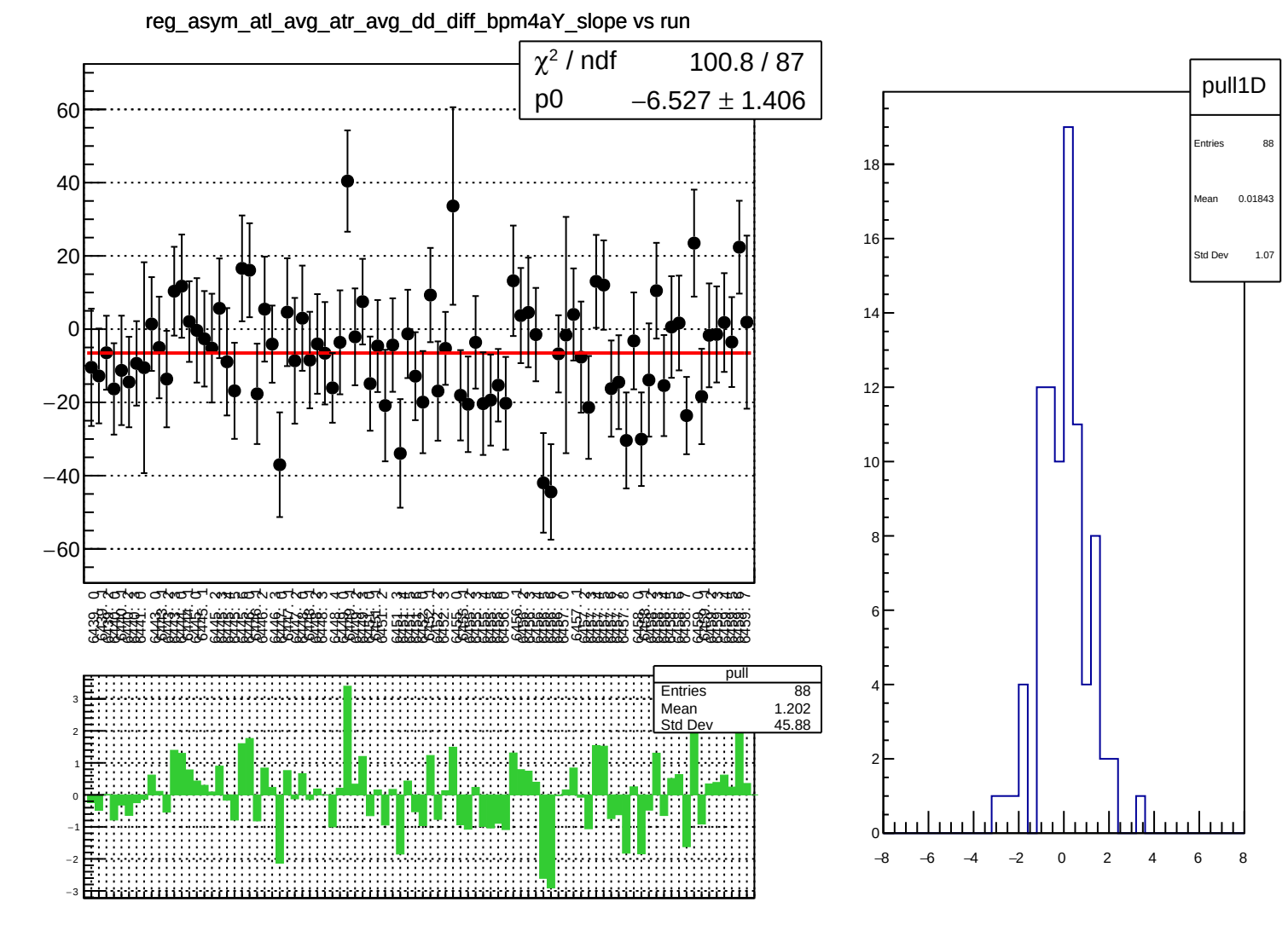

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 67.36 / 87
p0 445.7 ± 7.707
650
600
550
500
450
400
350
300
250
200
pull
Entries 88
Mean 117.3
Std Dev 60.83
1
0
−1
−2
−3
−4
−5
pull1D
Entries 88
Mean 0.07719
Std Dev 0.8715
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

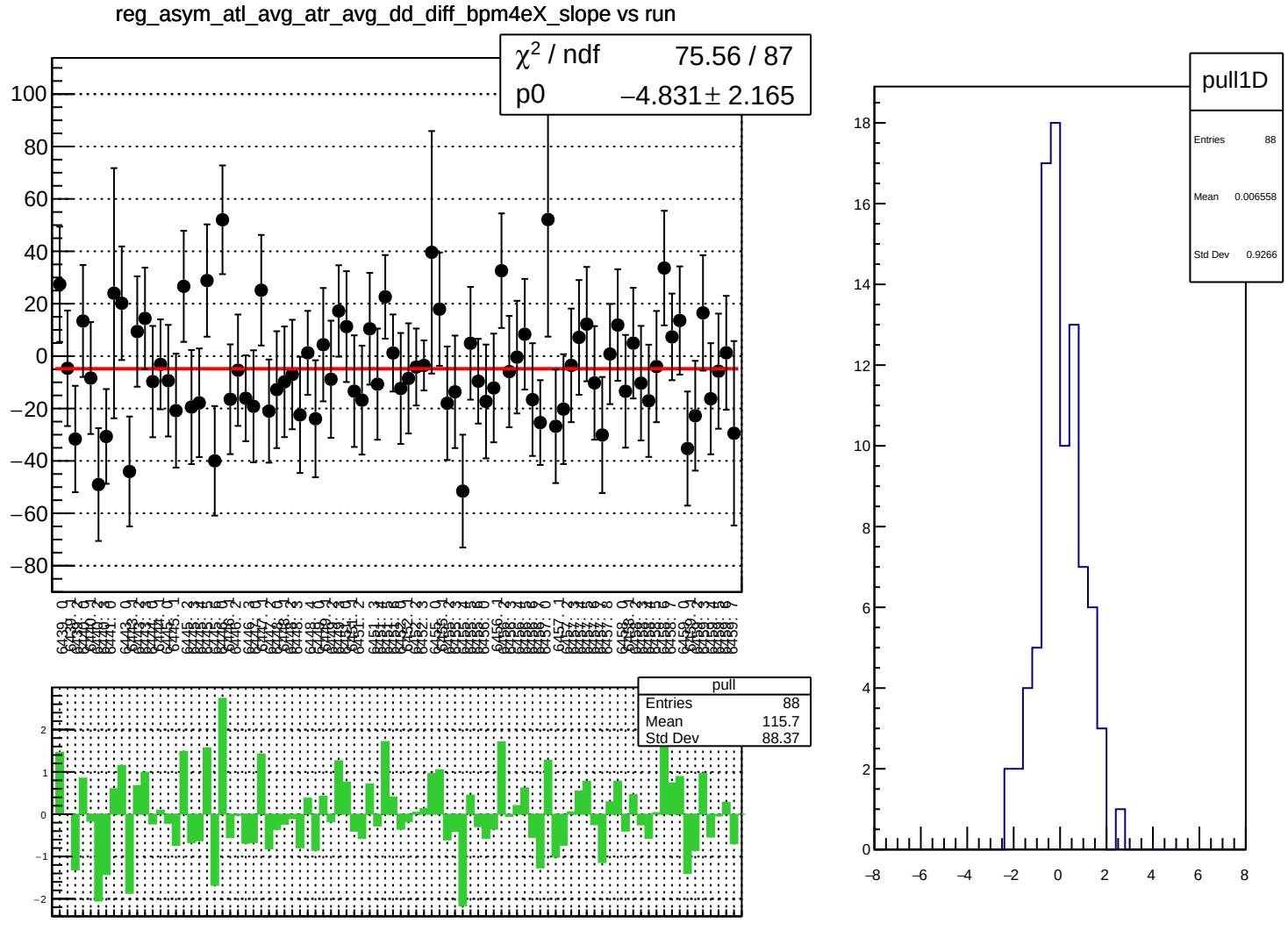

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.61 / 87
p0 123.1 ± 4.998
pull
Entries 88
Mean −1100
Std Dev 1140

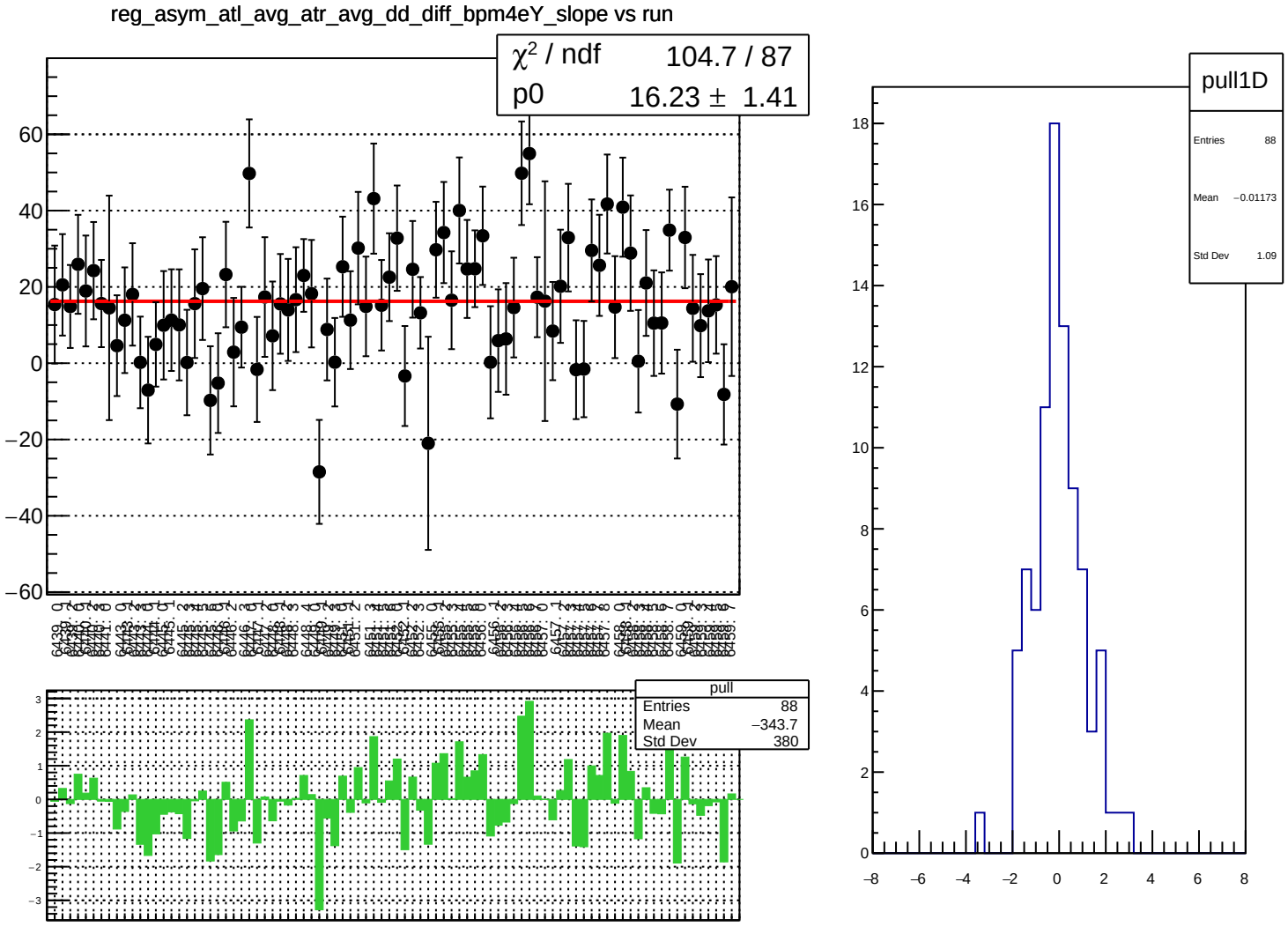

pull1D
Entries 88
Mean −0.01673
Std Dev 1.02

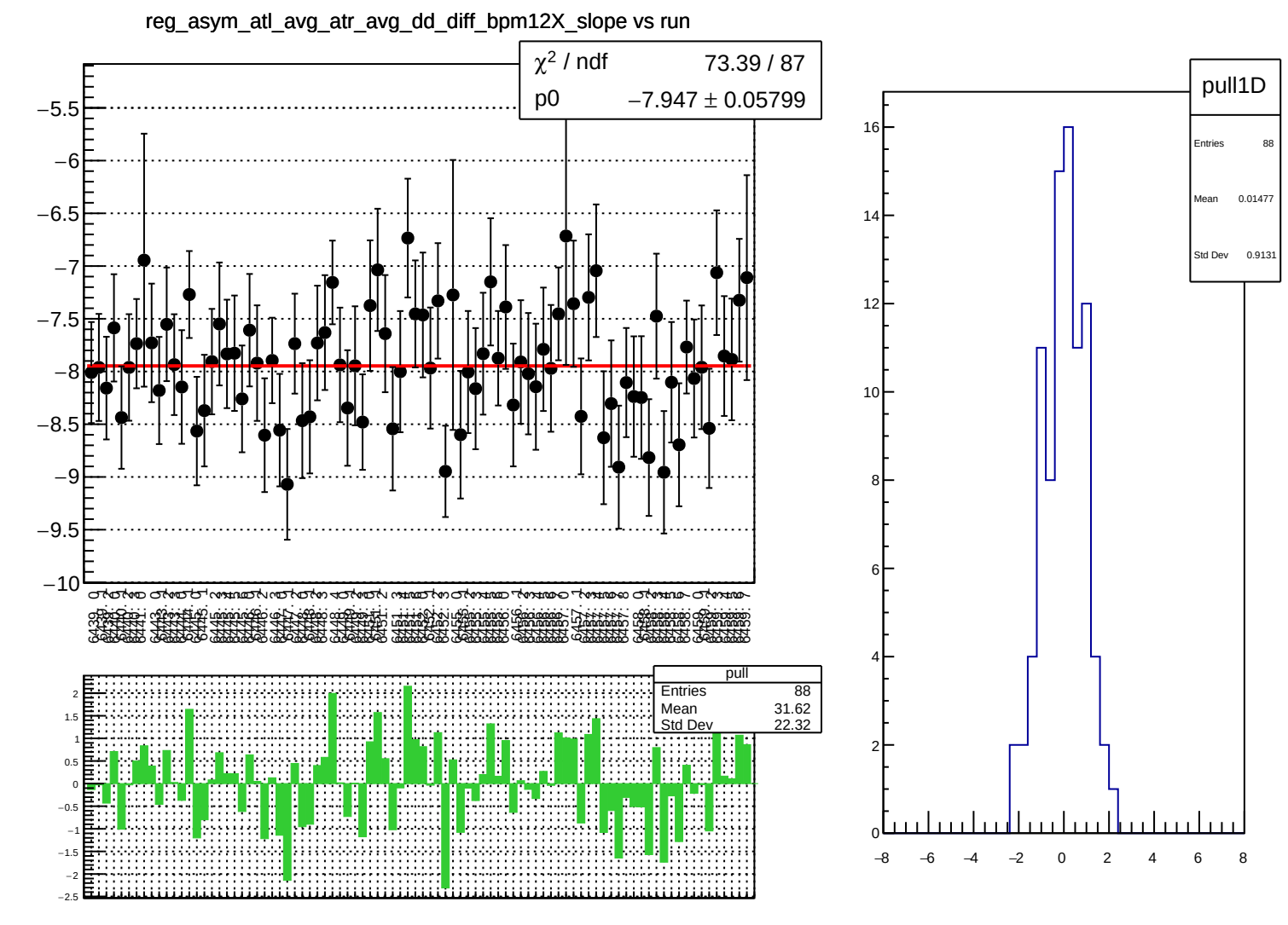

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 116.7 / 87
p0 −168 ± 0.2066
−160
−165
−170
−175
−180
pull
Entries 88
Mean 2855
Std Dev 2822
2
1
0
−1
−2
−3
−4
pull1D
Entries 88
Mean −0.003978
Std Dev 1.152
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

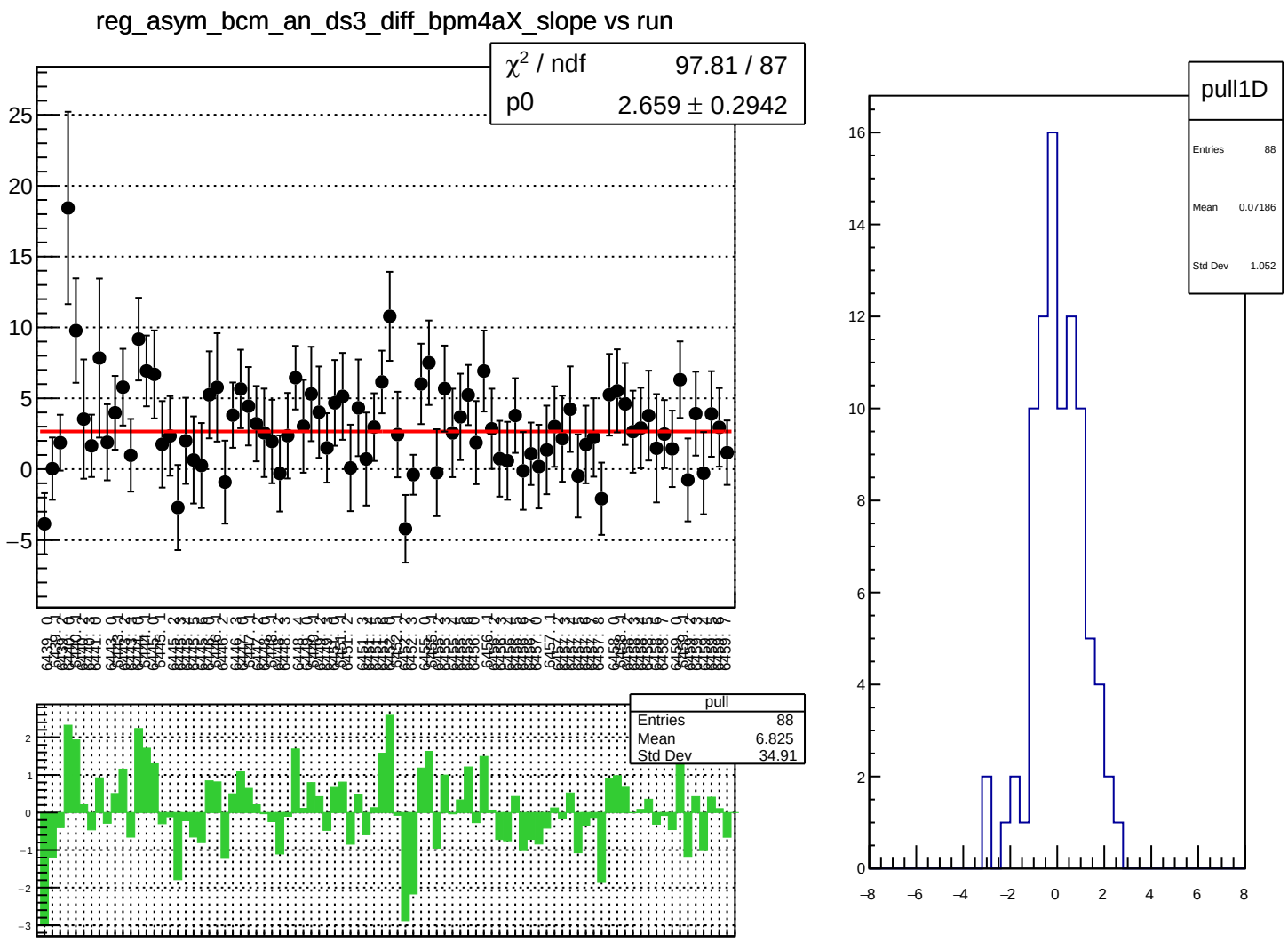

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 75.47 / 87
p0 −10.32 ± 1.993
pull
Entries 88
Mean 170.3
Std Dev 143.5
pull1D
Entries 88
Mean −0.005084
Std Dev 0.926

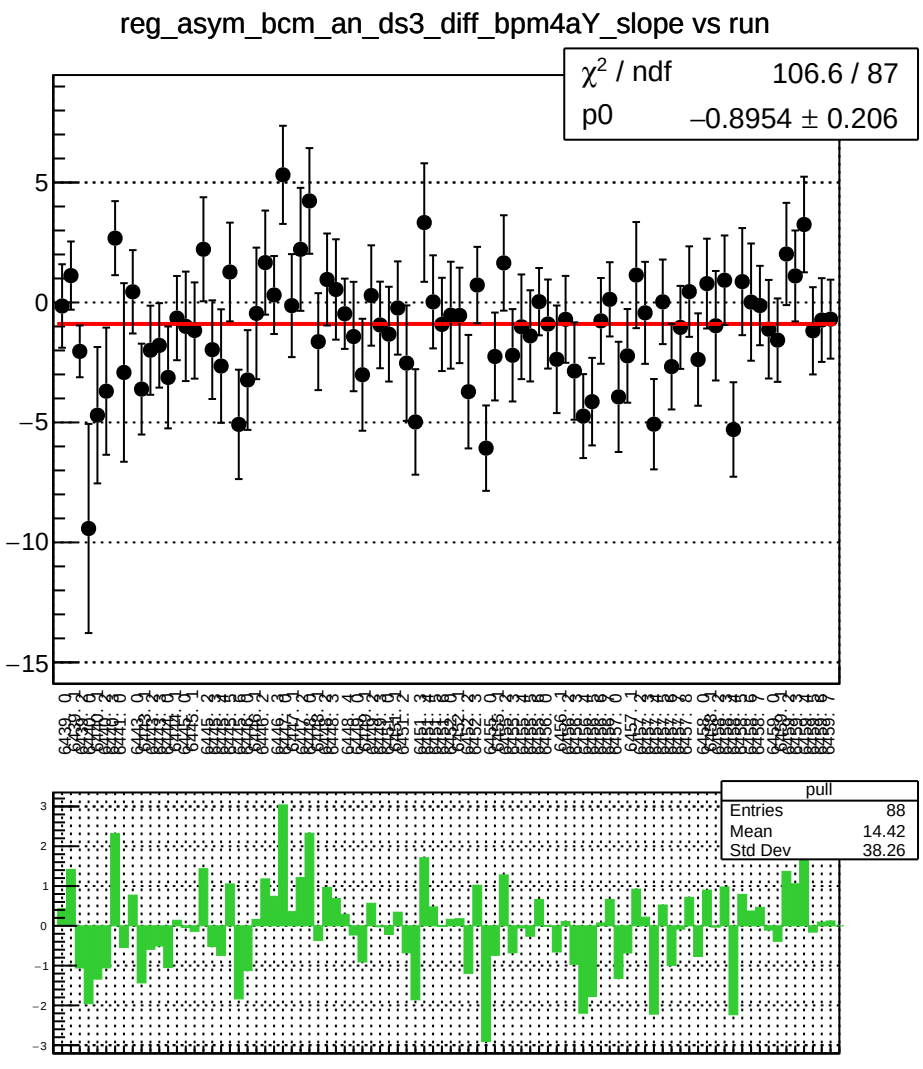

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 100.8 / 87
p0 −6.527 ± 1.406
pull
Entries 88
Mean 1.202
Std Dev 45.88
pull1D
Entries 88
Mean 0.01843
Std Dev 1.07

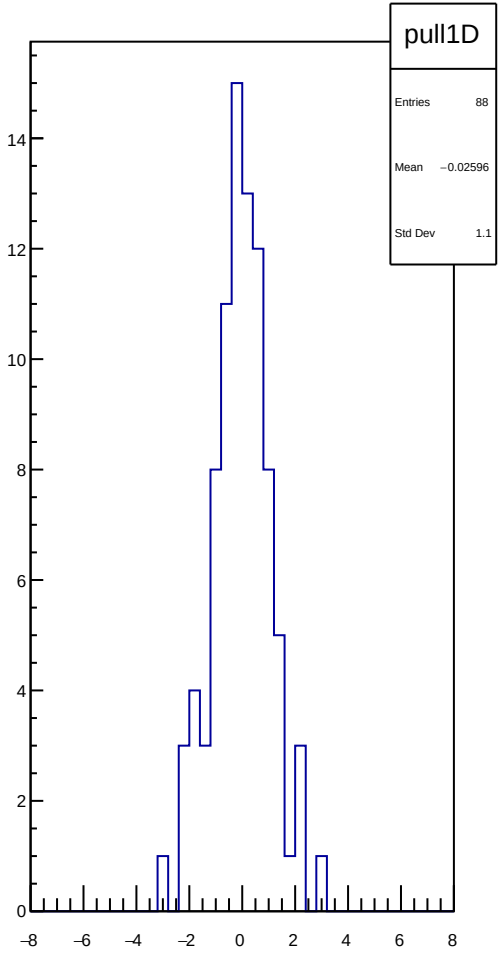

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.56 / 87
p0 −4.831 ± 2.165
pull
Entries 88
Mean 115.7
Std Dev 88.37
pull1D
Entries 88
Mean 0.006558
Std Dev 0.9266

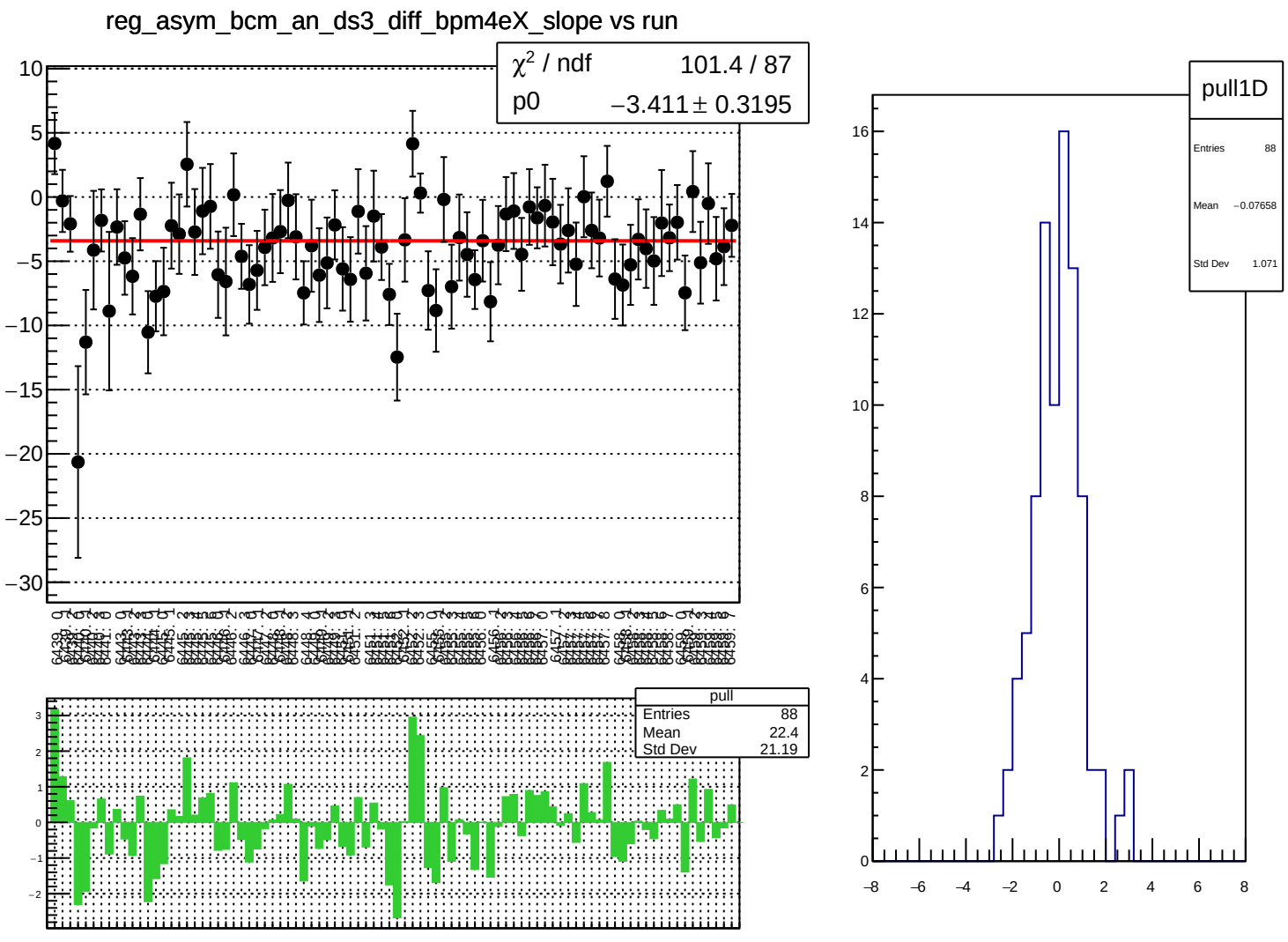

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 104.7 / 87
p0 16.23 ± 1.41
pull
Entries 88
Mean −343.7
Std Dev 380
pull1D
Entries 88
Mean −0.01173
Std Dev 1.09

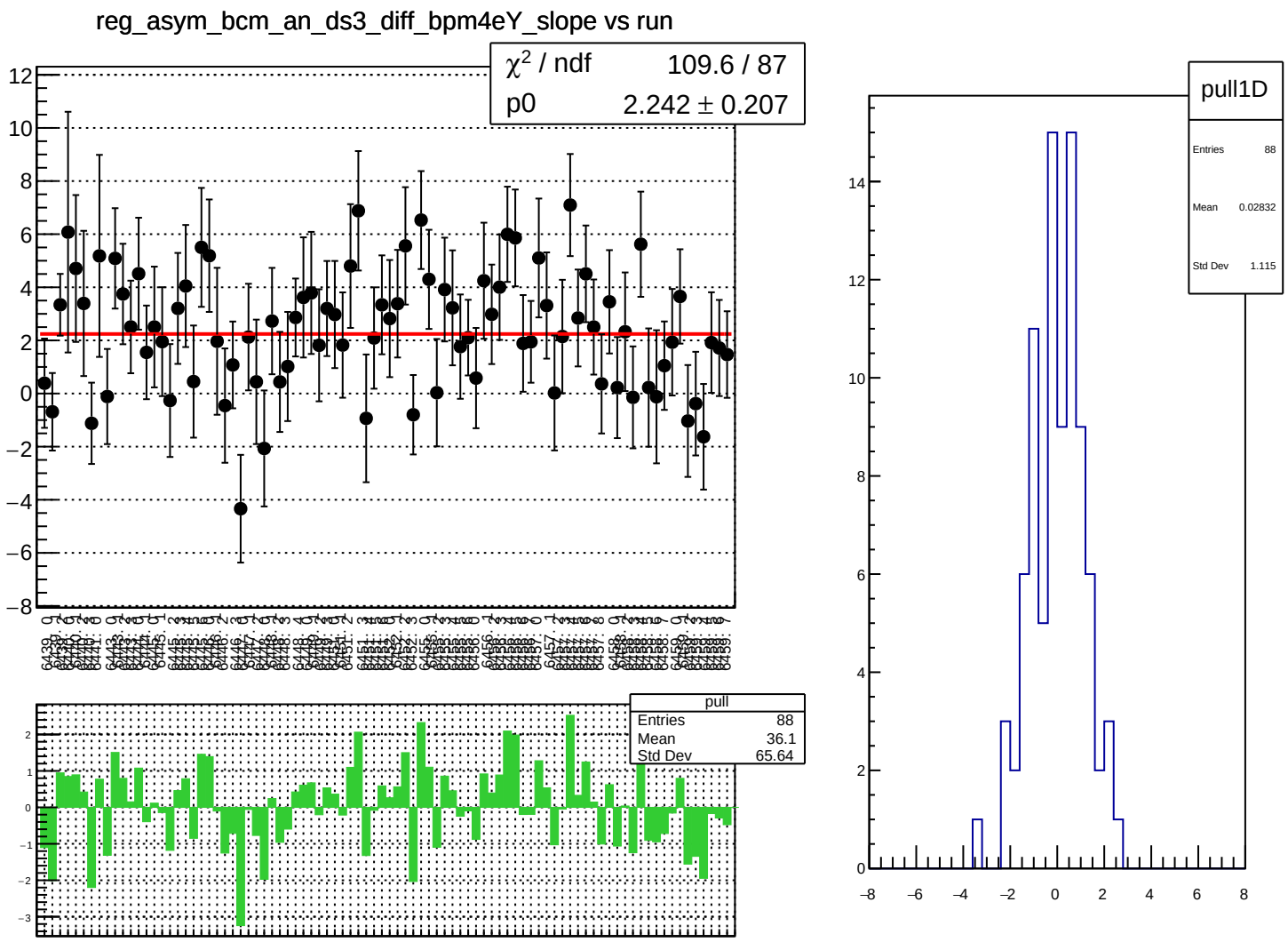

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 73.39 / 87
p0 −7.947 ± 0.05799
pull
Entries 88
Mean 31.62
Std Dev 22.32
pull1D
Entries 88
Mean 0.01477
Std Dev 0.9131

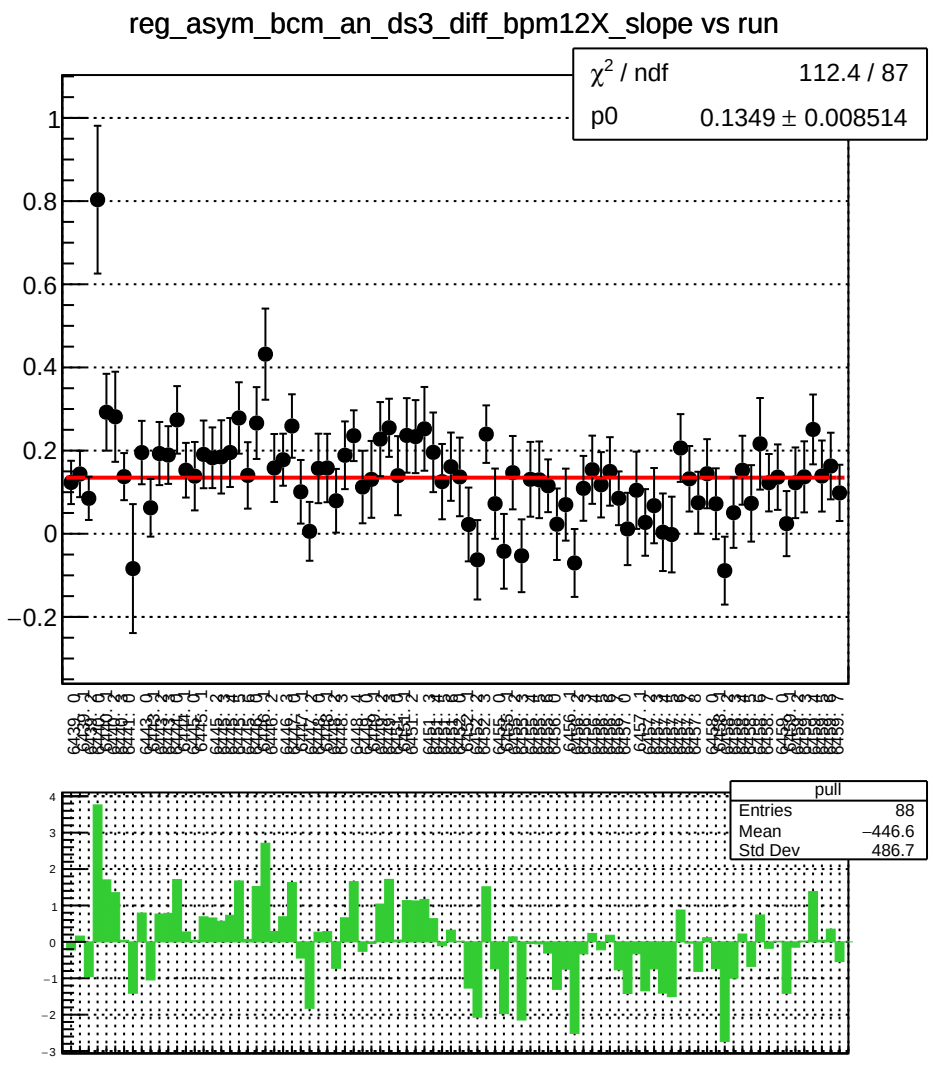

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 97.81 / 87
p0 2.659 ± 0.2942
pull
Entries 88
Mean 6.825
Std Dev 34.91
pull1D
Entries 88
Mean 0.07186
Std Dev 1.052

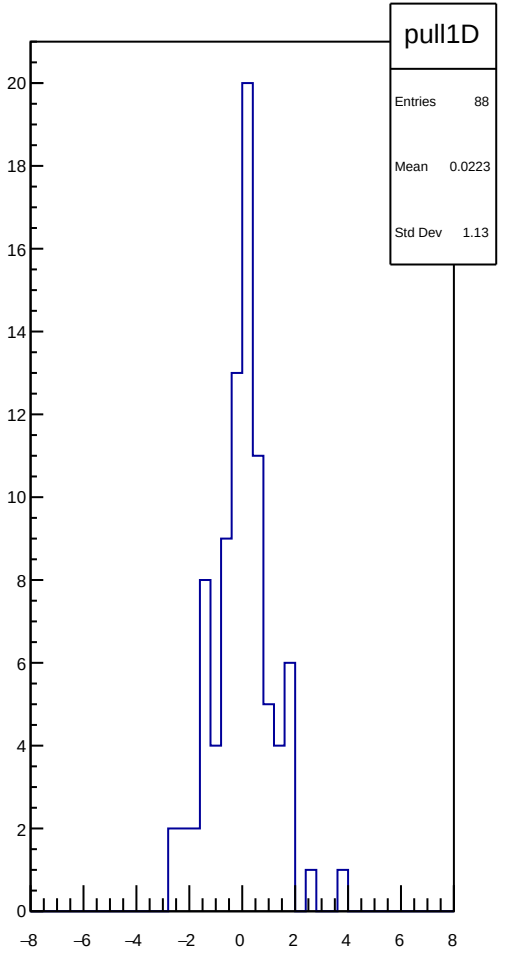

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 106.6 / 87
p0 −0.8954 ± 0.206
pull
Entries 88
Mean 14.42
Std Dev 38.26

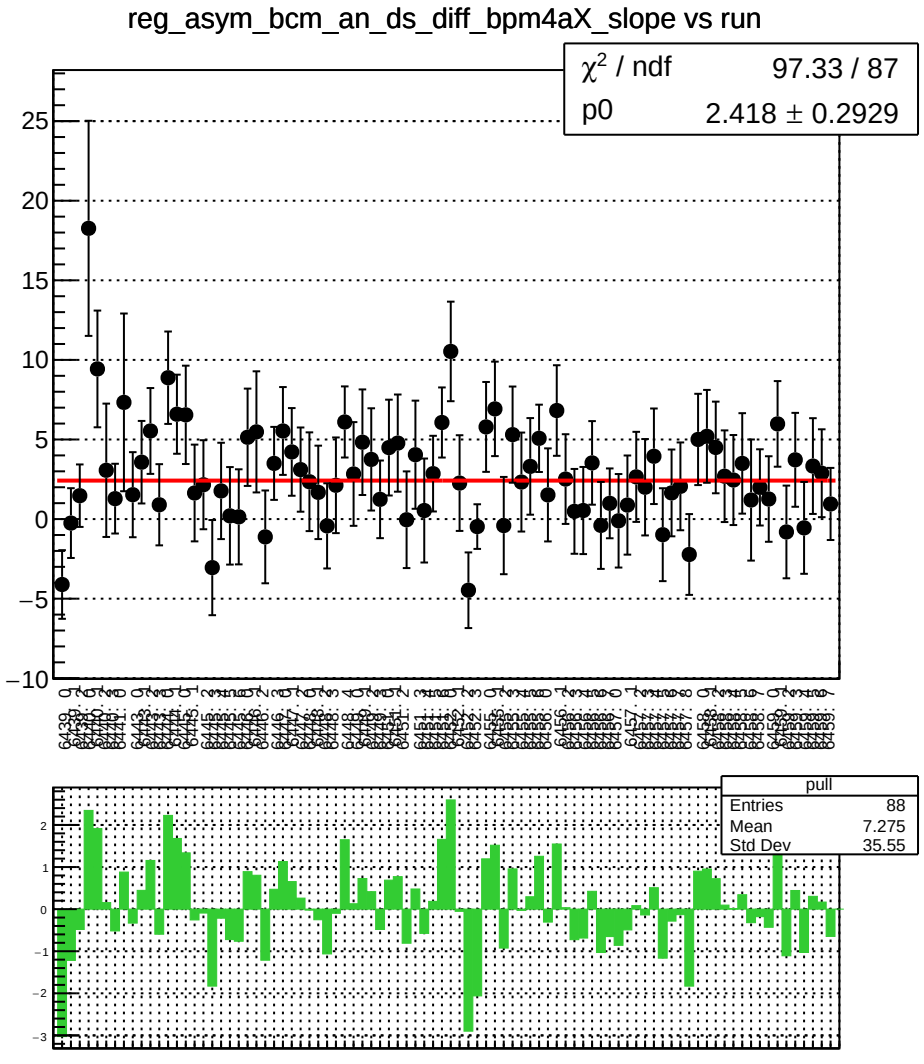

pull1D
Entries 88
Mean −0.02596
Std Dev 1.1

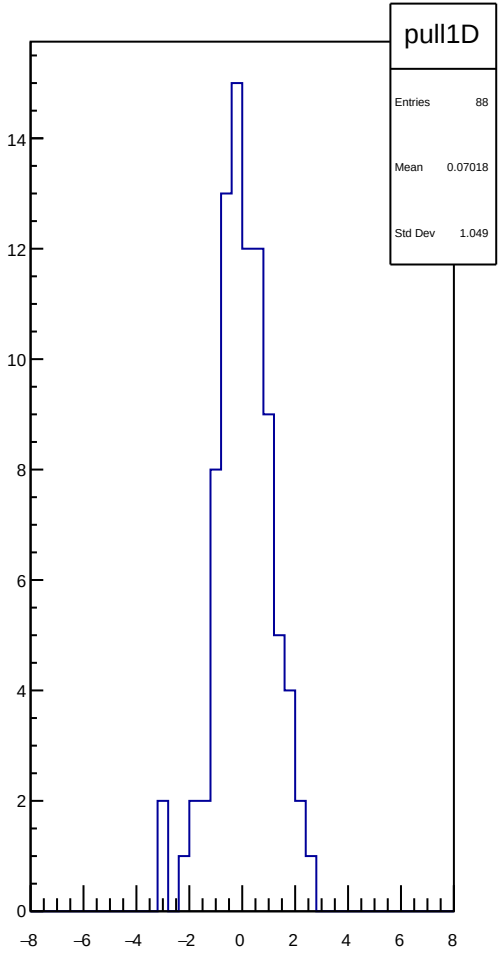

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 101.4 / 87
p0 −3.411 ± 0.3195
pull
Entries 88
Mean 22.4
Std Dev 21.19
pull1D
Entries 88
Mean −0.07658
Std Dev 1.071

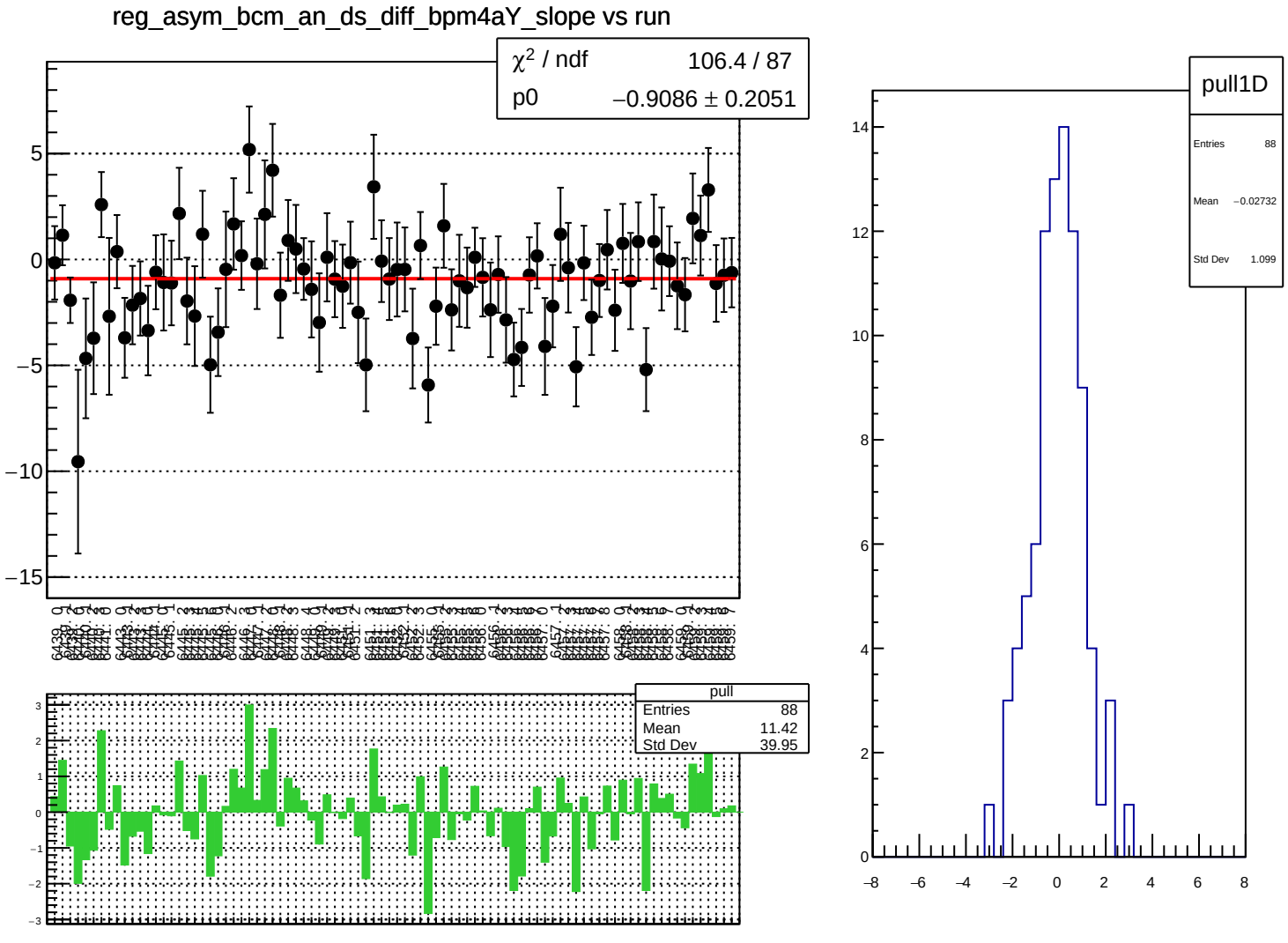

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 109.6 / 87
p0 2.242 ± 0.207
pull
Entries 88
Mean 36.1
Std Dev 65.64
pull1D
Entries 88
Mean 0.02832
Std Dev 1.115

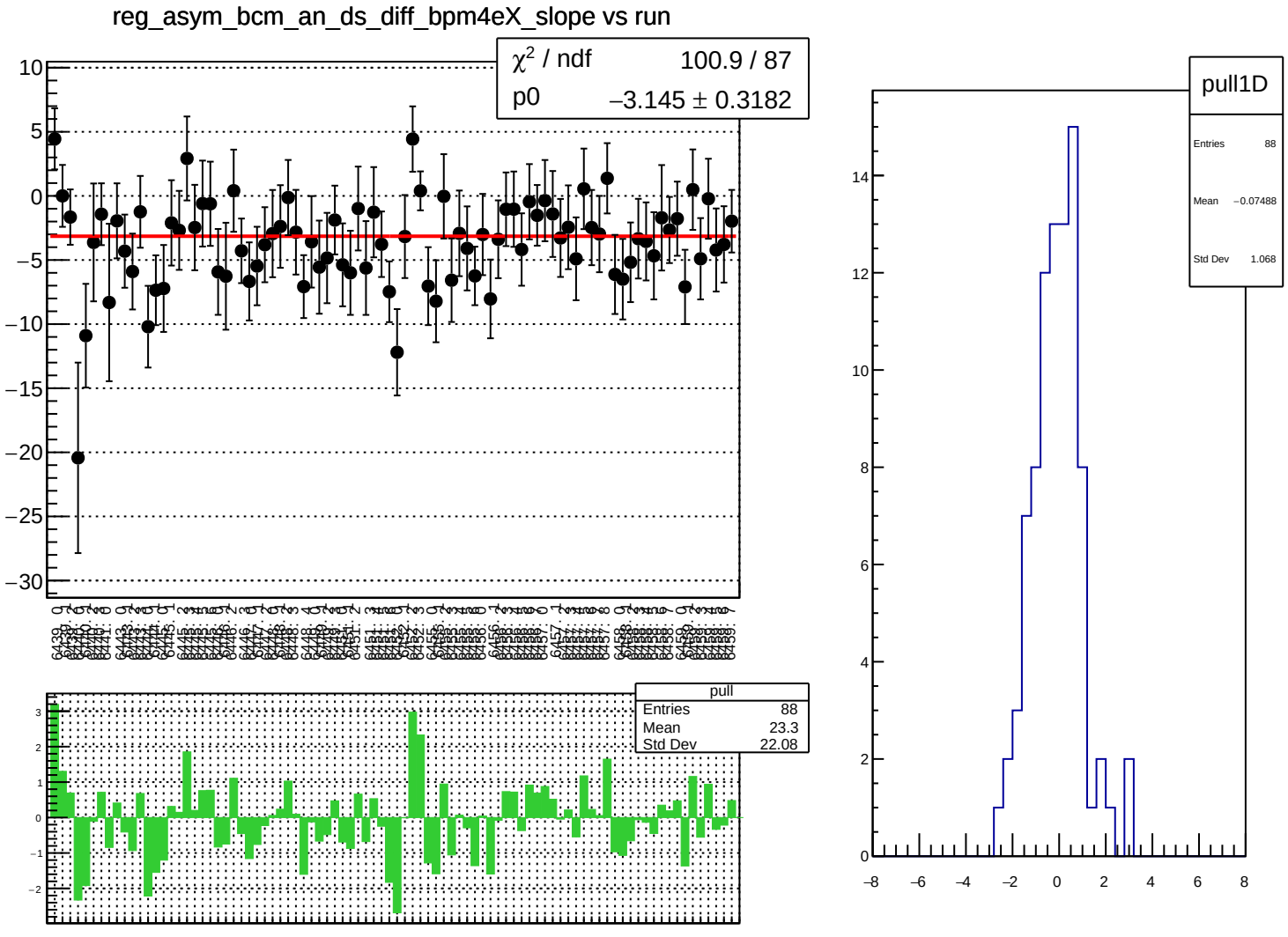

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 112.4 / 87
p0 0.1349 ± 0.008514
pull
Entries 88
Mean −446.6
Std Dev 486.7

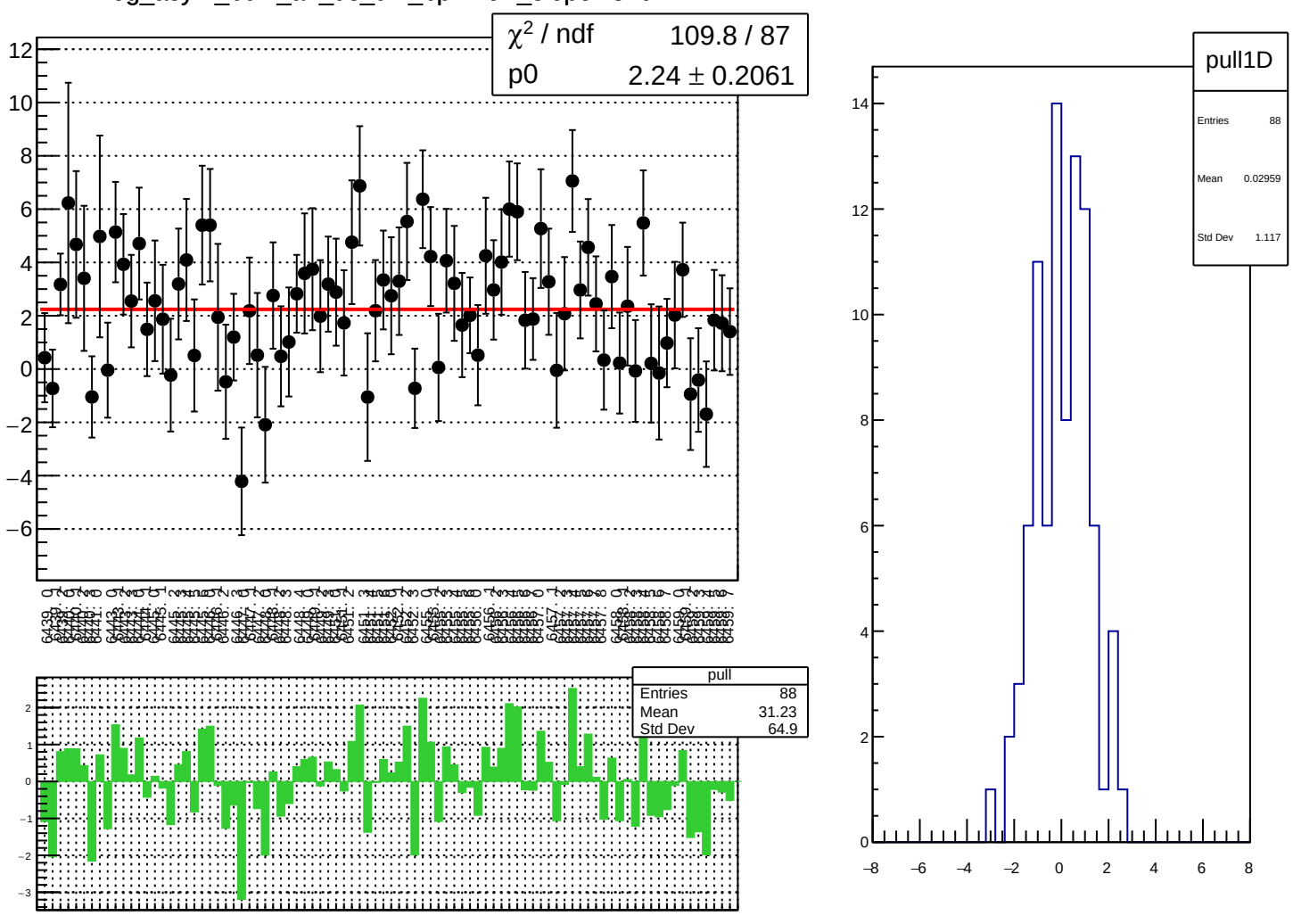

pull1D
Entries 88
Mean 0.0223
Std Dev 1.13

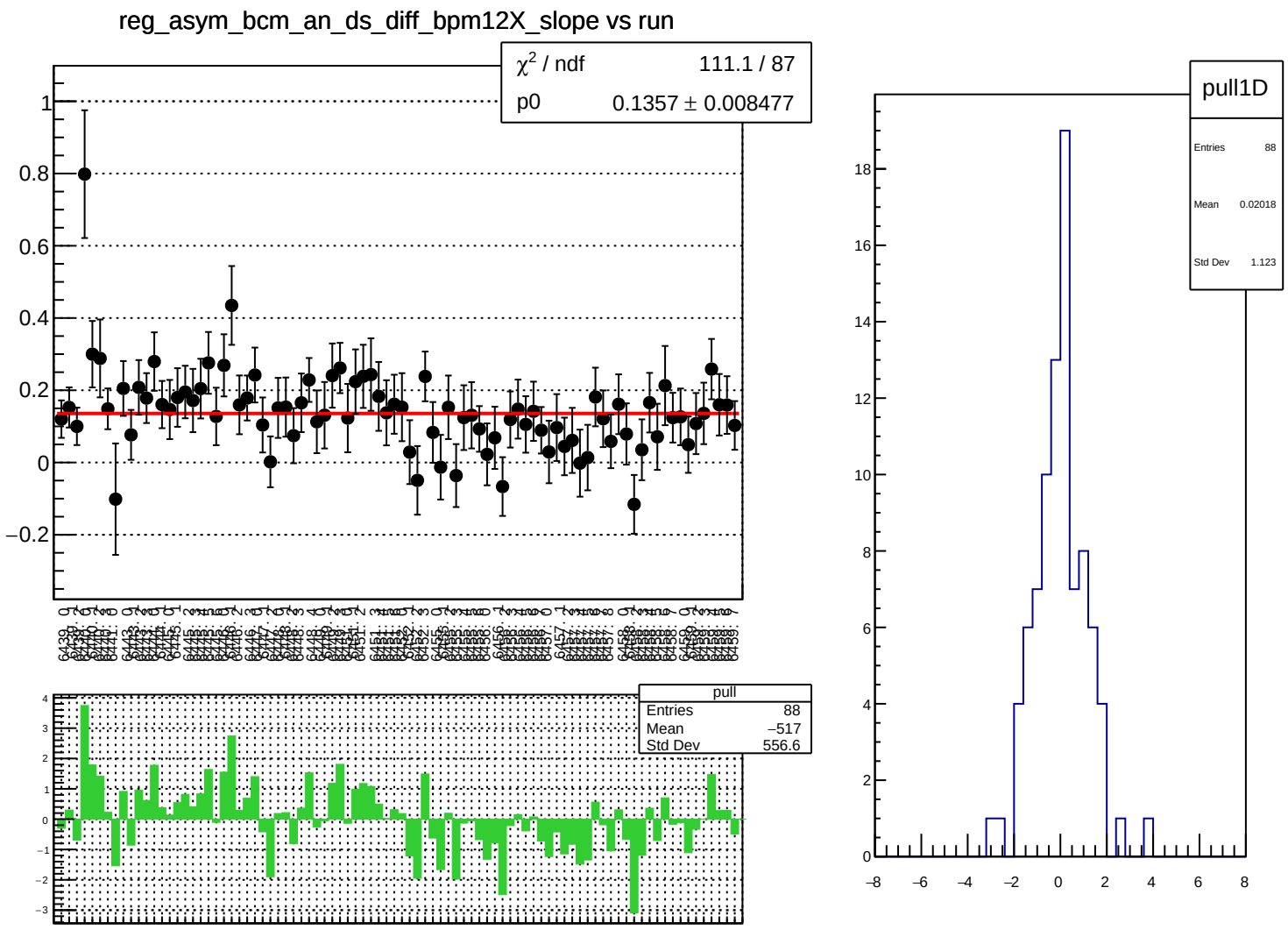

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 97.33 / 87
p0 2.418 ± 0.2929
pull
Entries 88
Mean 7.275
Std Dev 35.55

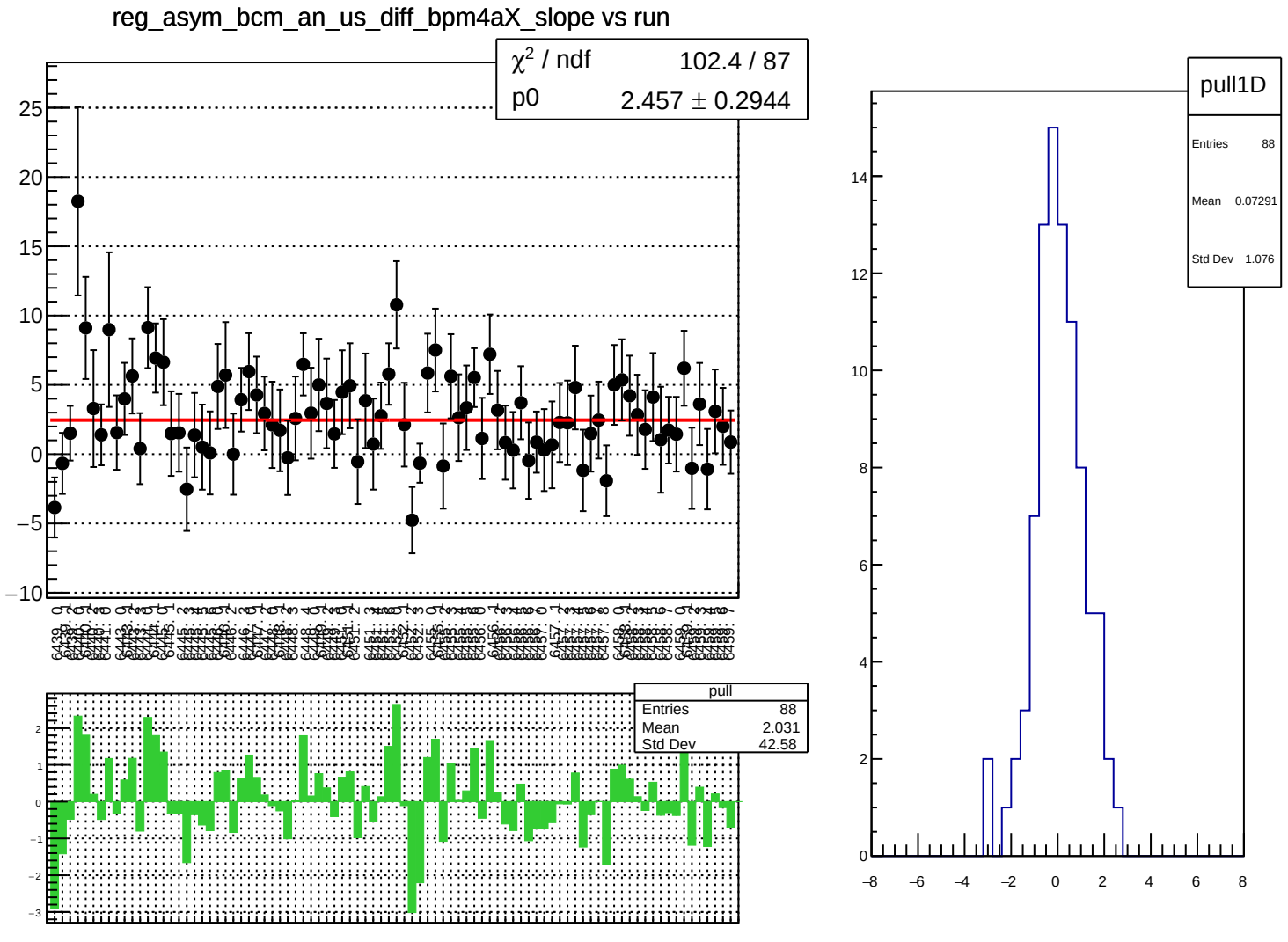

pull1D
Entries 88
Mean 0.07018
Std Dev 1.049

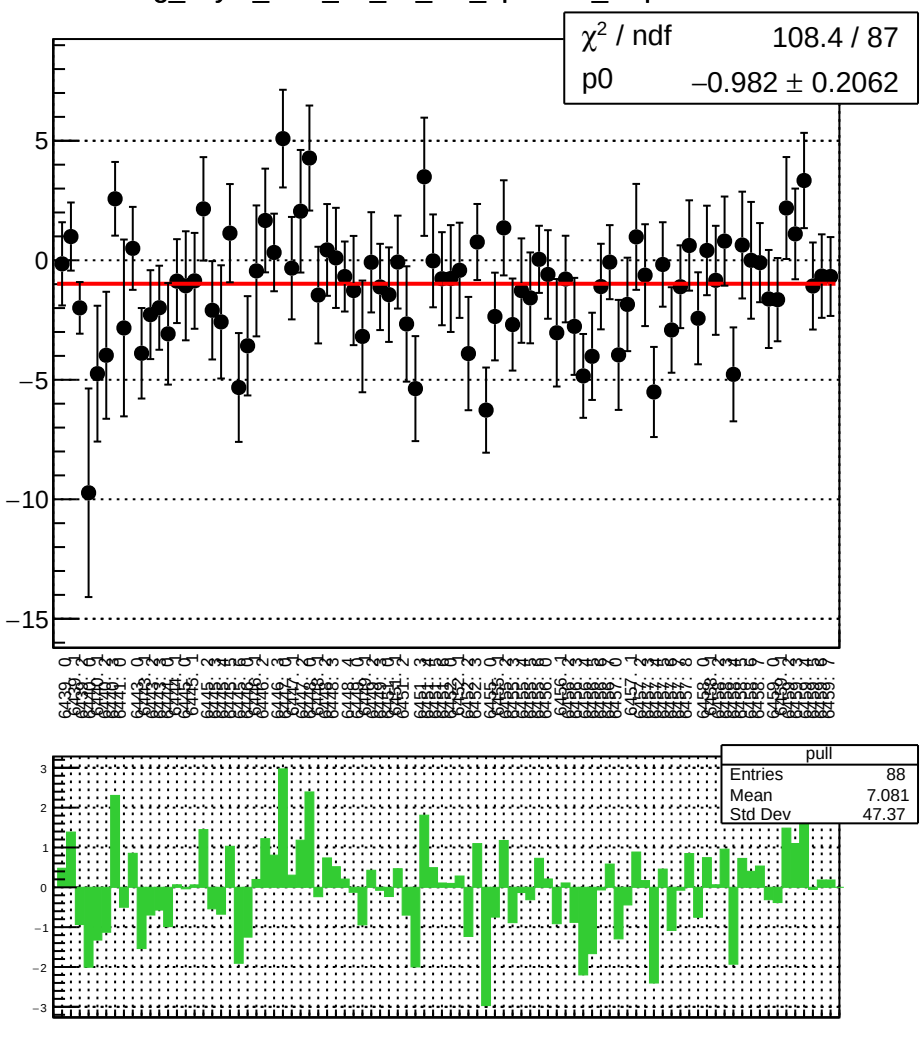

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 106.4 / 87
p0 −0.9086 ± 0.2051
pull
Entries 88
Mean 11.42
Std Dev 39.95
pull1D
Entries 88
Mean −0.02732
Std Dev 1.099

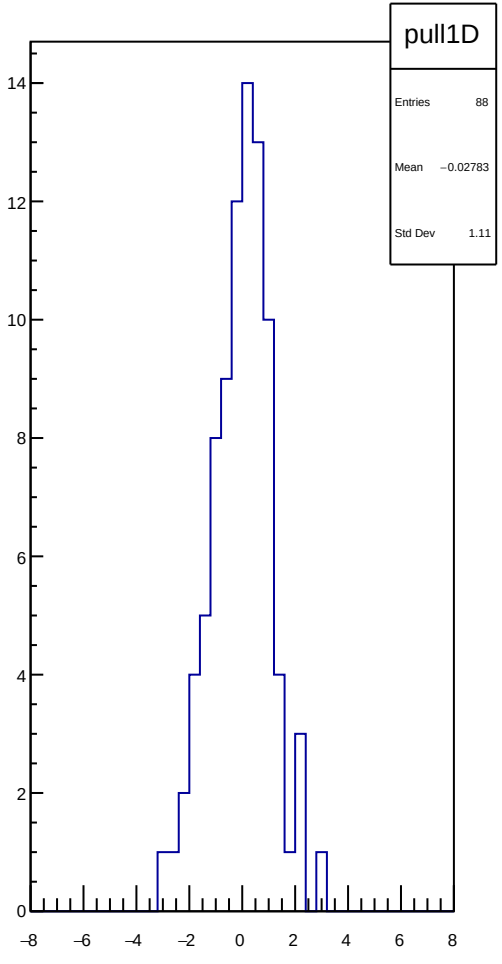

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 100.9 / 87
p0 −3.145 ± 0.3182
pull
Entries 88
Mean 23.3
Std Dev 22.08
pull1D
Entries 88
Mean −0.07488
Std Dev 1.068

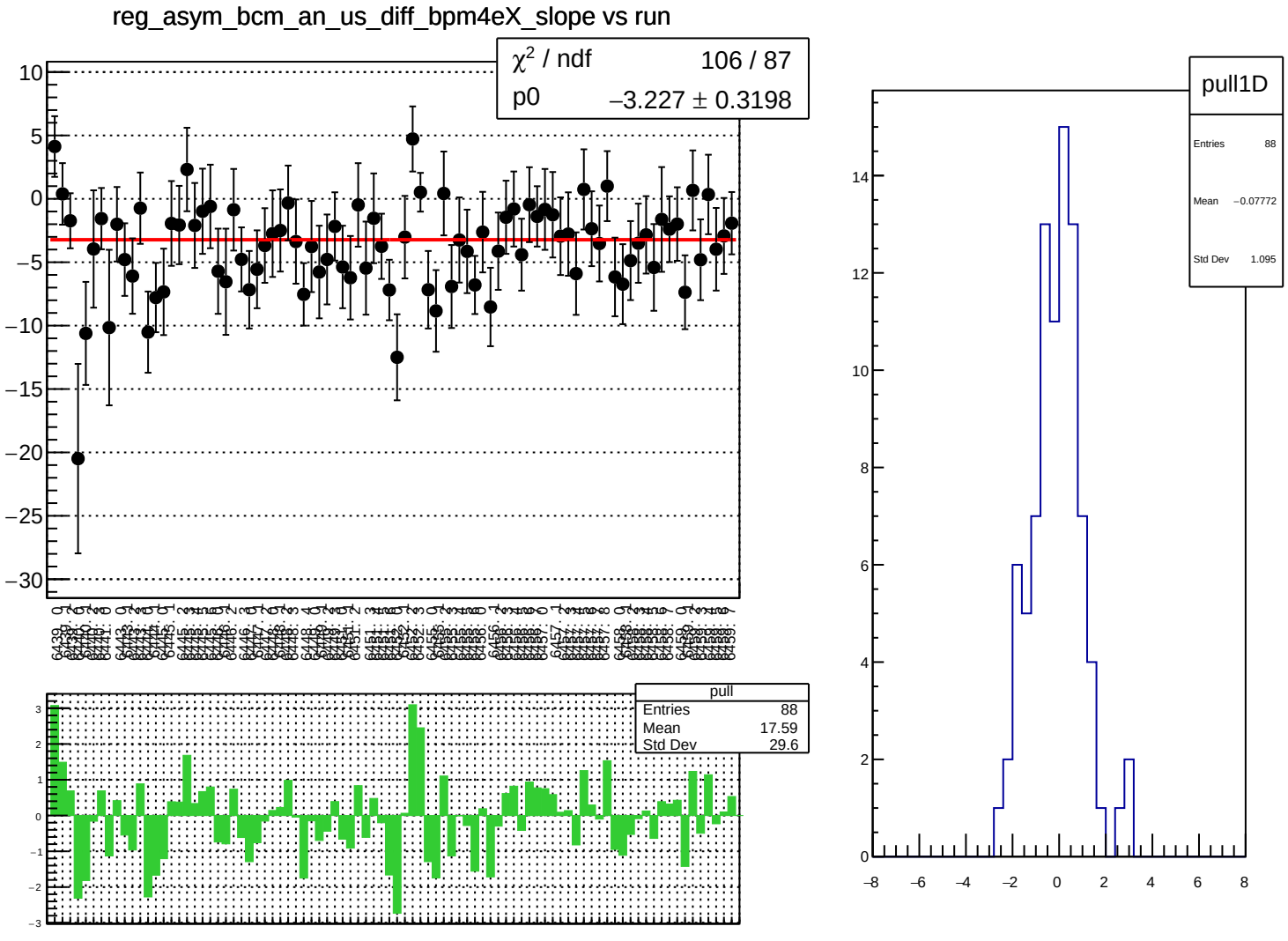

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 109.8 / 87
p0 2.24 ± 0.2061
pull
Entries 88
Mean 31.23
Std Dev 64.9
pull1D
Entries 88
Mean 0.02959
Std Dev 1.117

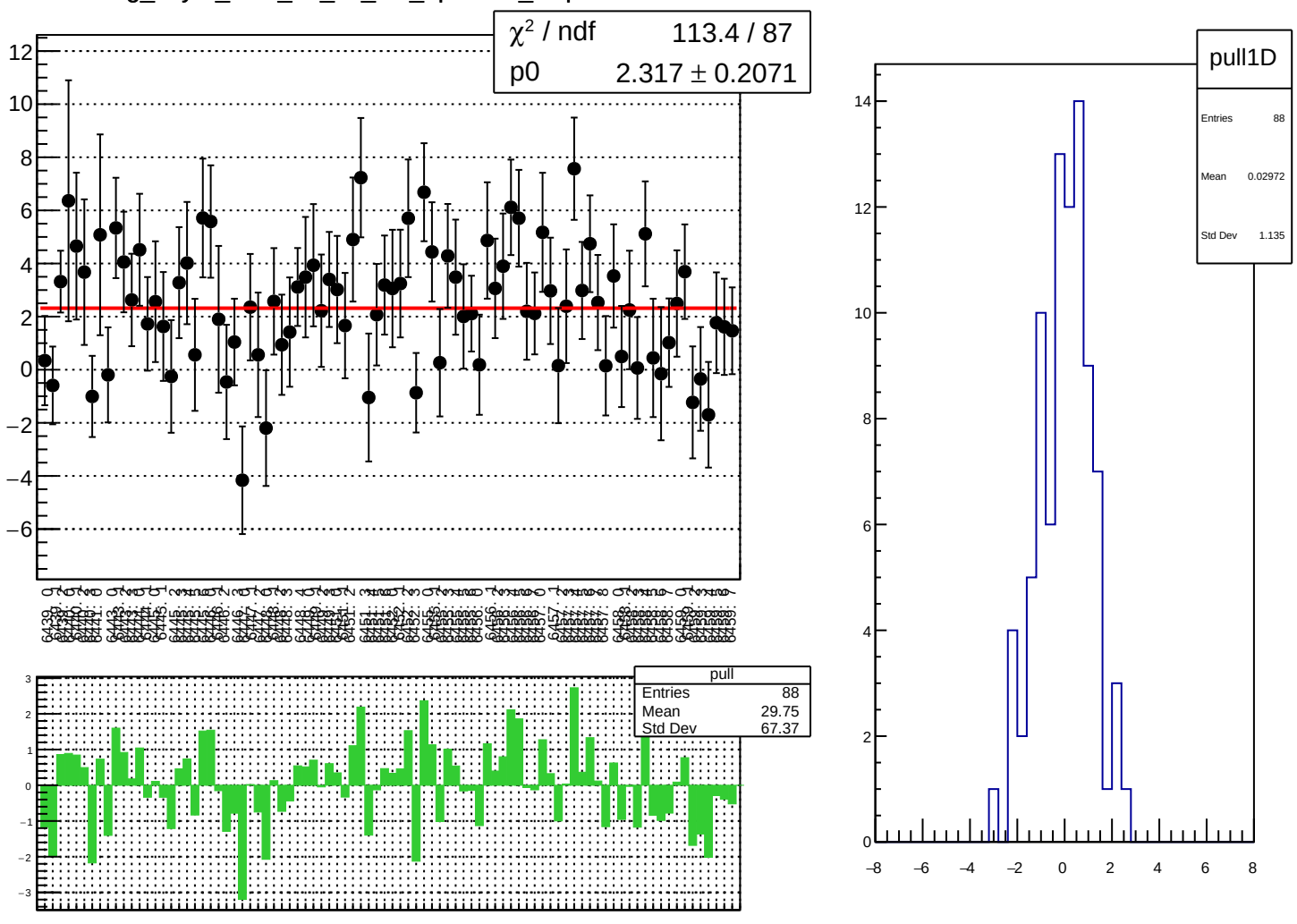

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 111.1 / 87
p0 0.1357 ± 0.008477
pull
Entries 88
Mean −517
Std Dev 556.6
pull1D
Entries 88
Mean 0.02018
Std Dev 1.123

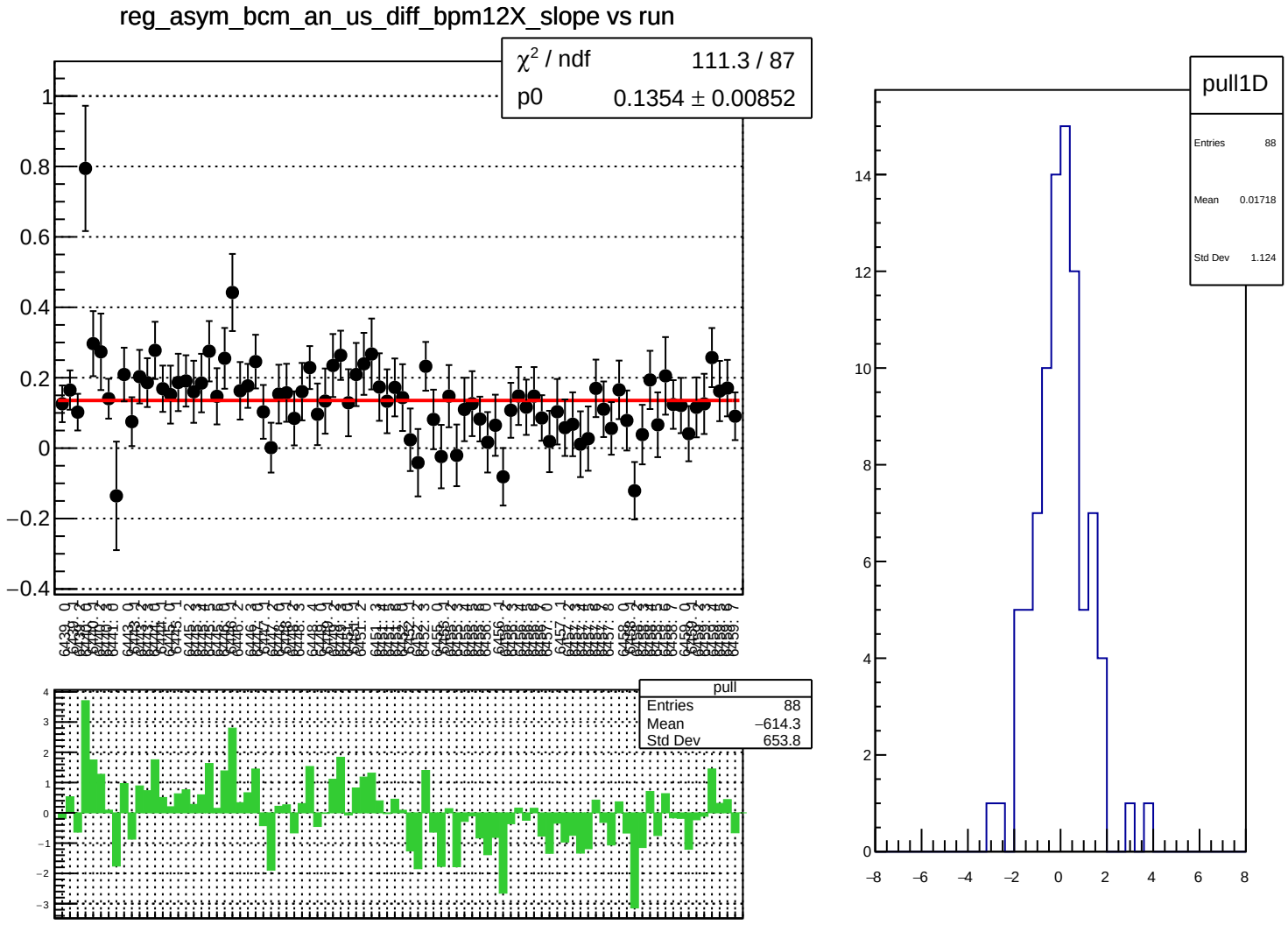

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 102.4 / 87
p0 2.457 ± 0.2944
pull
Entries 88
Mean 2.031
Std Dev 42.58
pull1D
Entries 88
Mean 0.07291
Std Dev 1.076

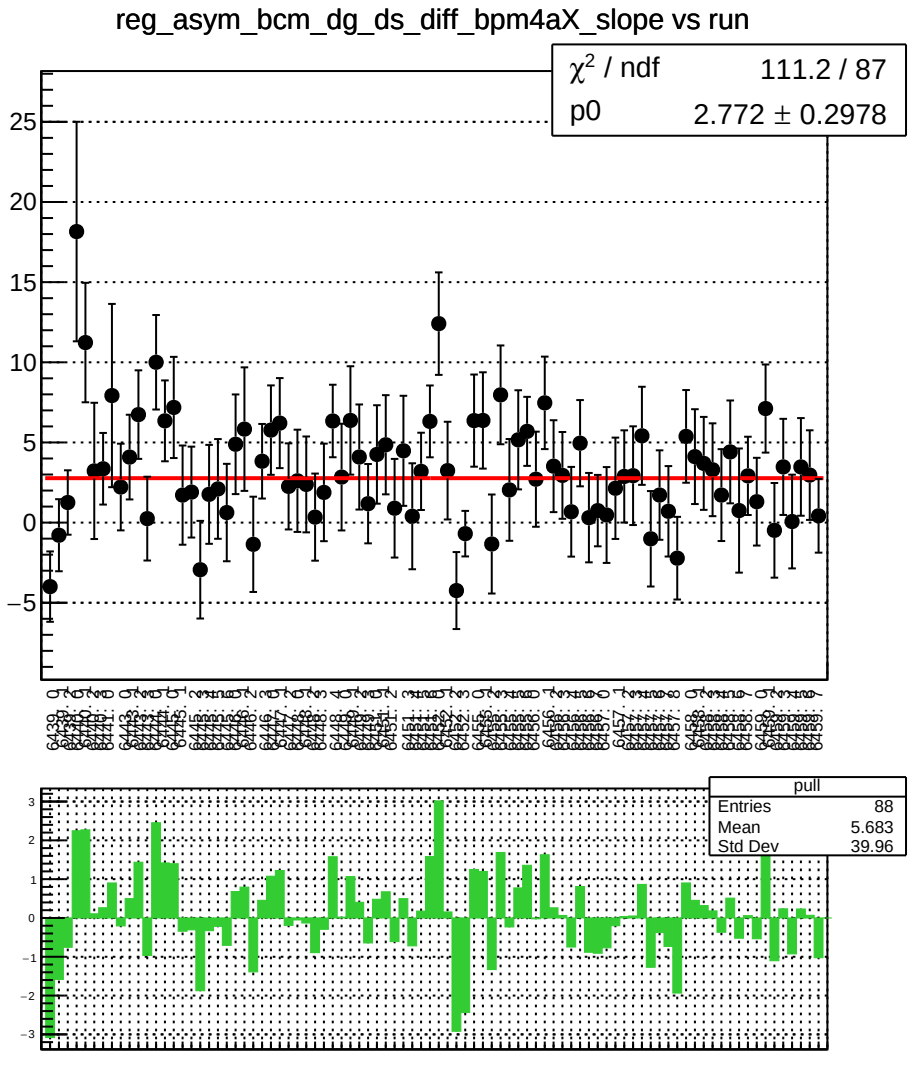

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 108.4 / 87
p0 −0.982 ± 0.2062
pull
Entries 88
Mean 7.081
Std Dev 47.37

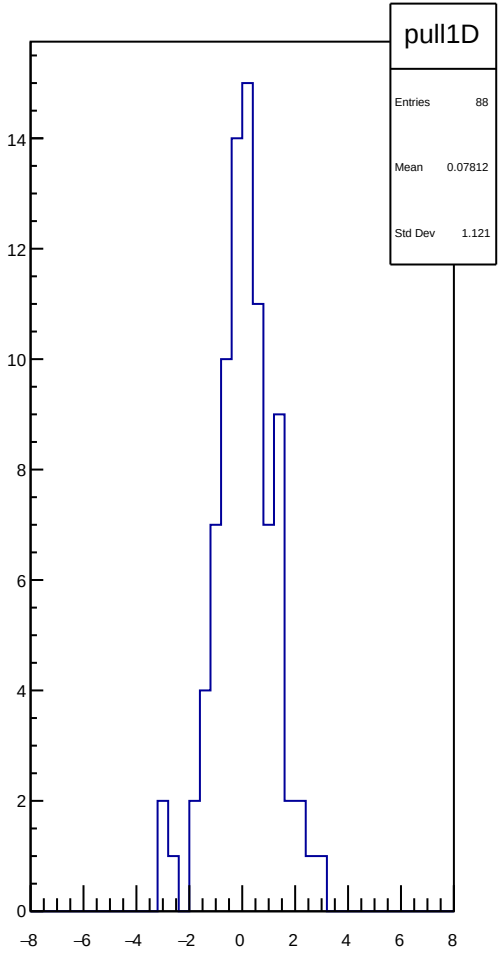

pull1D
Entries 88
Mean −0.02783
Std Dev 1.11

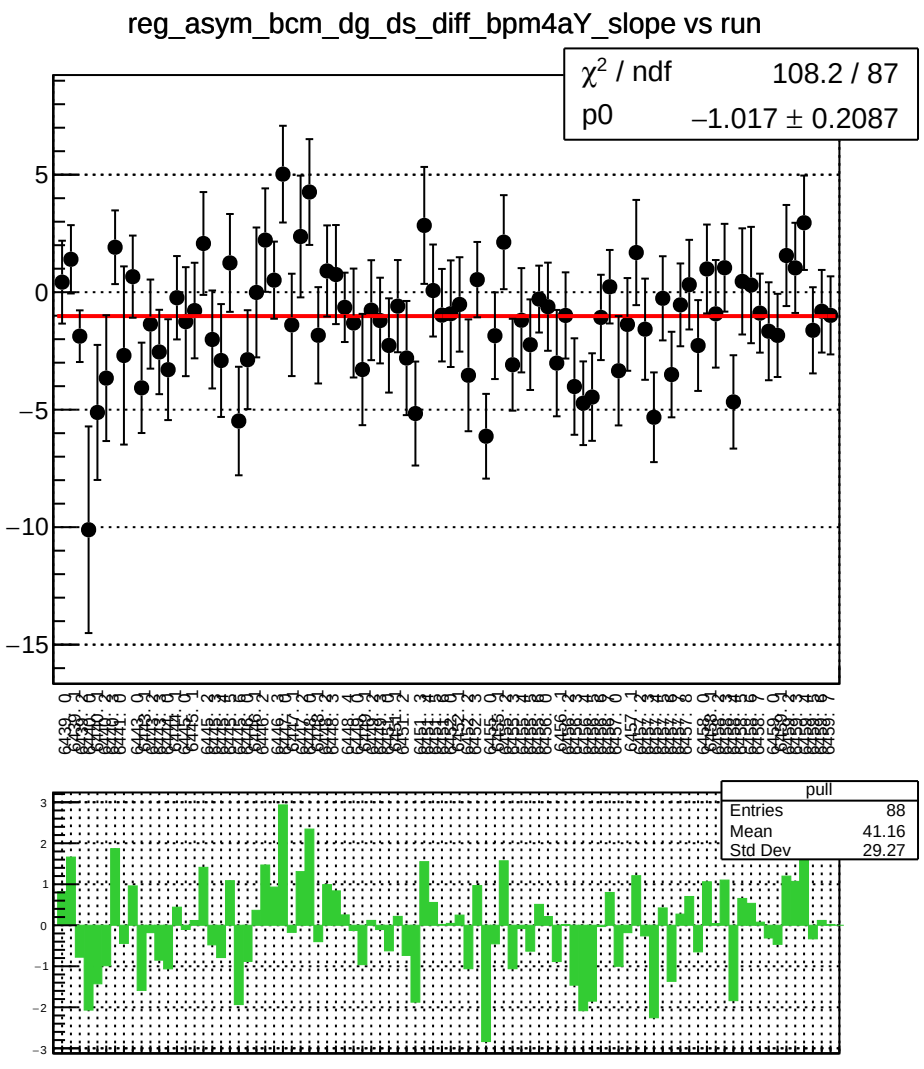

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 106 / 87
p0 −3.227 ± 0.3198
pull
Entries 88
Mean 17.59
Std Dev 29.6
pull1D
Entries 88
Mean −0.07772
Std Dev 1.095

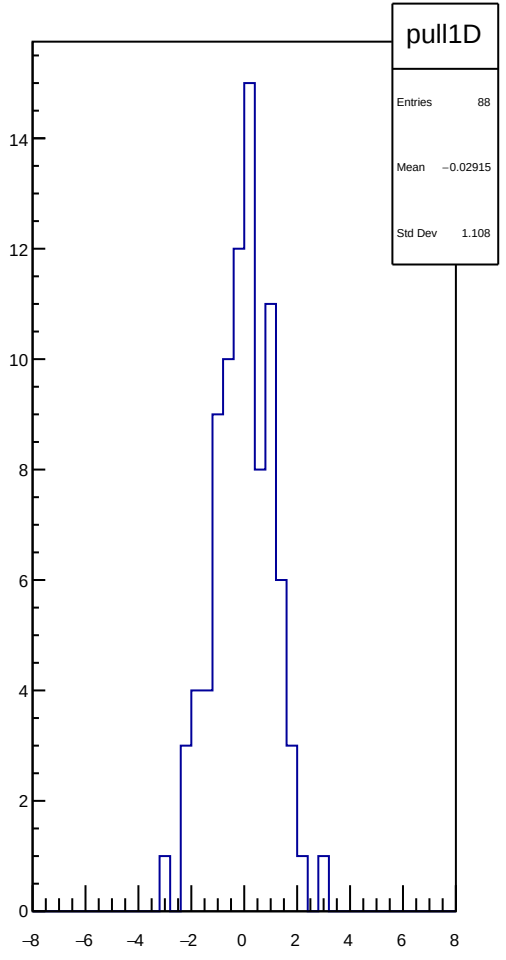

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 113.4 / 87
p0 2.317 ± 0.2071
pull
Entries 88
Mean 29.75
Std Dev 67.37
pull1D
Entries 88
Mean 0.02972
Std Dev 1.135

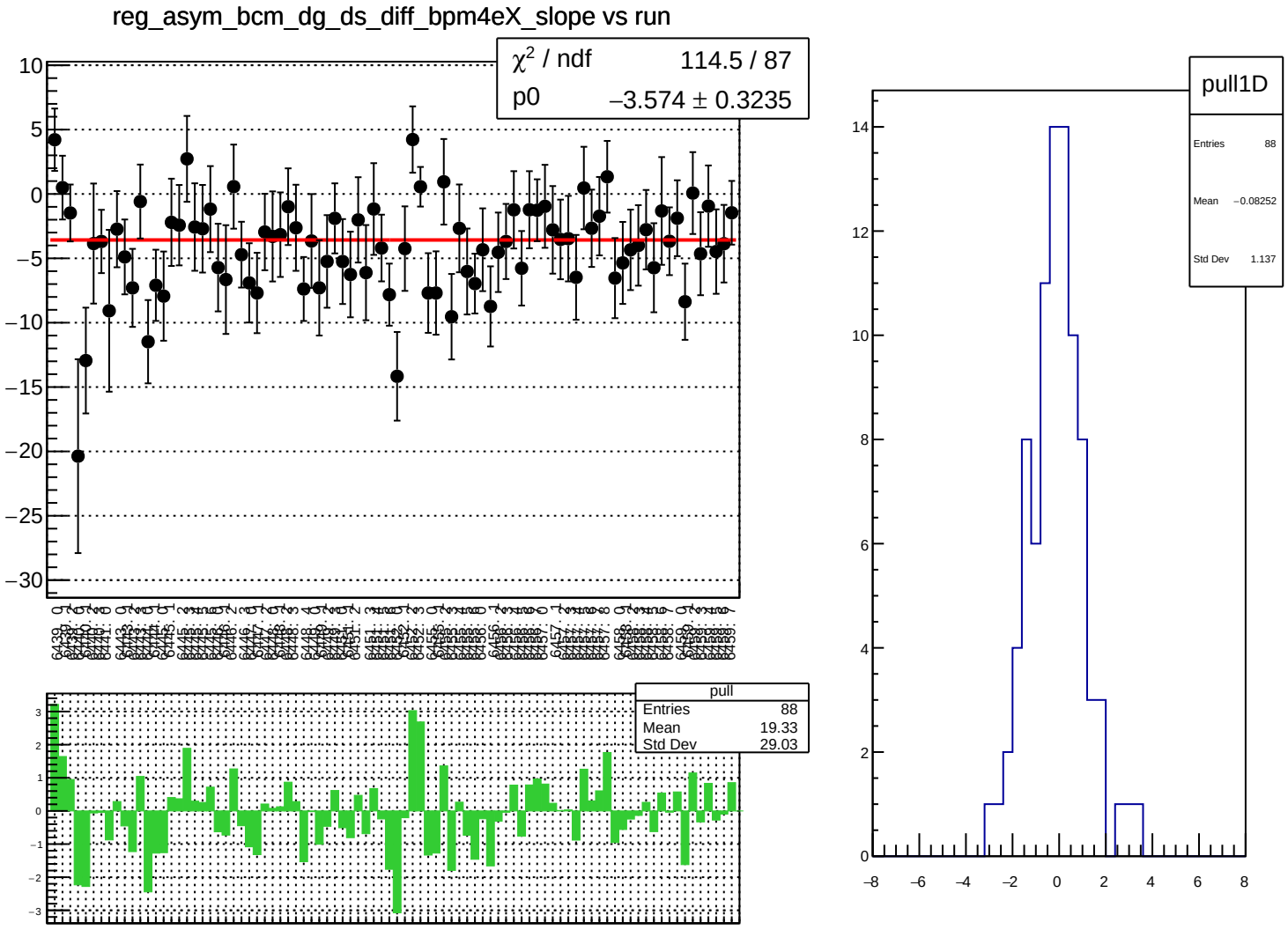

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 111.3 / 87
p0 0.1354 ± 0.00852
pull
Entries 88
Mean −614.3
Std Dev 653.8
pull1D
Entries 88
Mean 0.01718
Std Dev 1.124

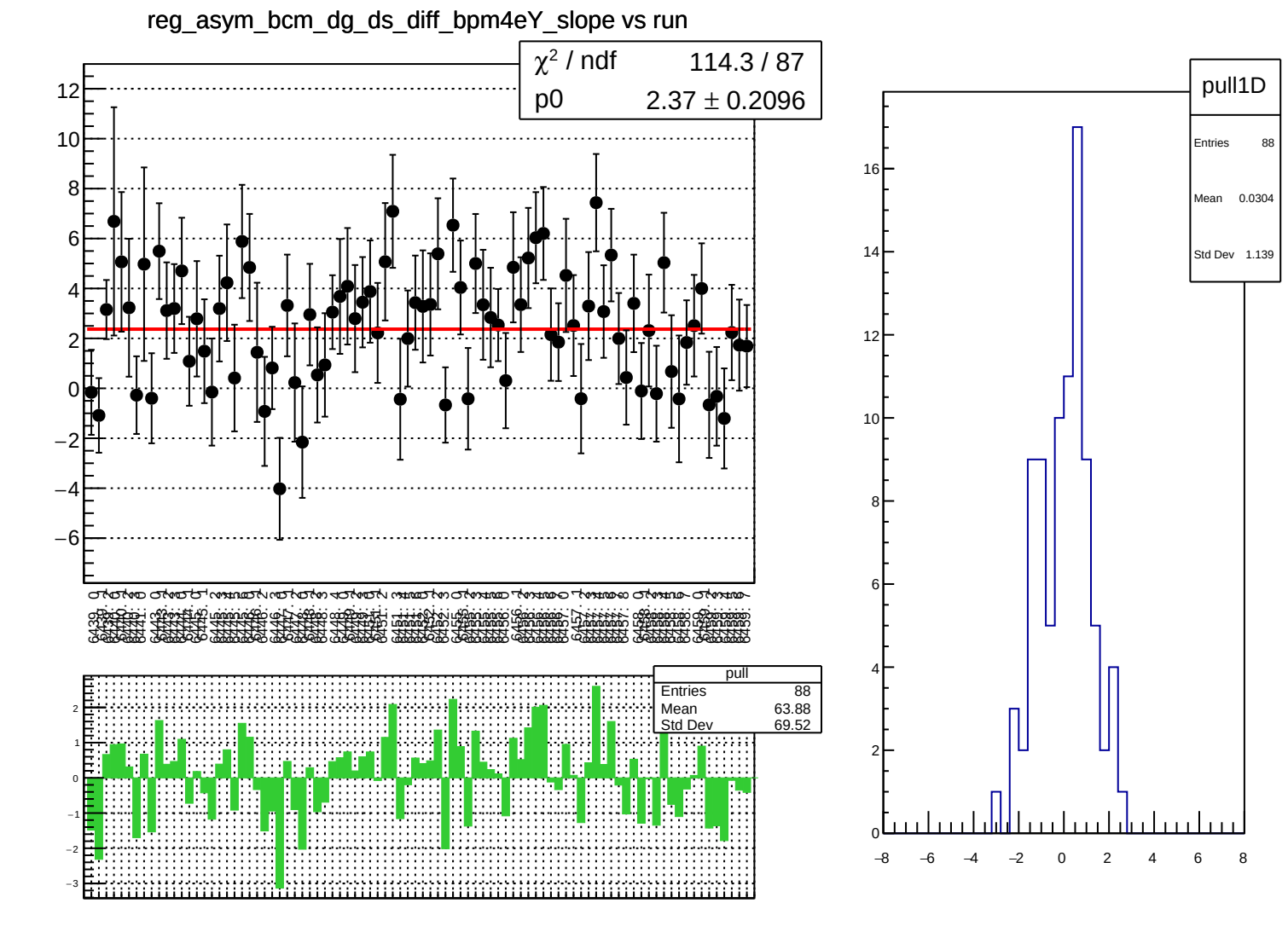

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 111.2 / 87
p0 2.772 ± 0.2978
pull
Entries 88
Mean 5.683
Std Dev 39.96

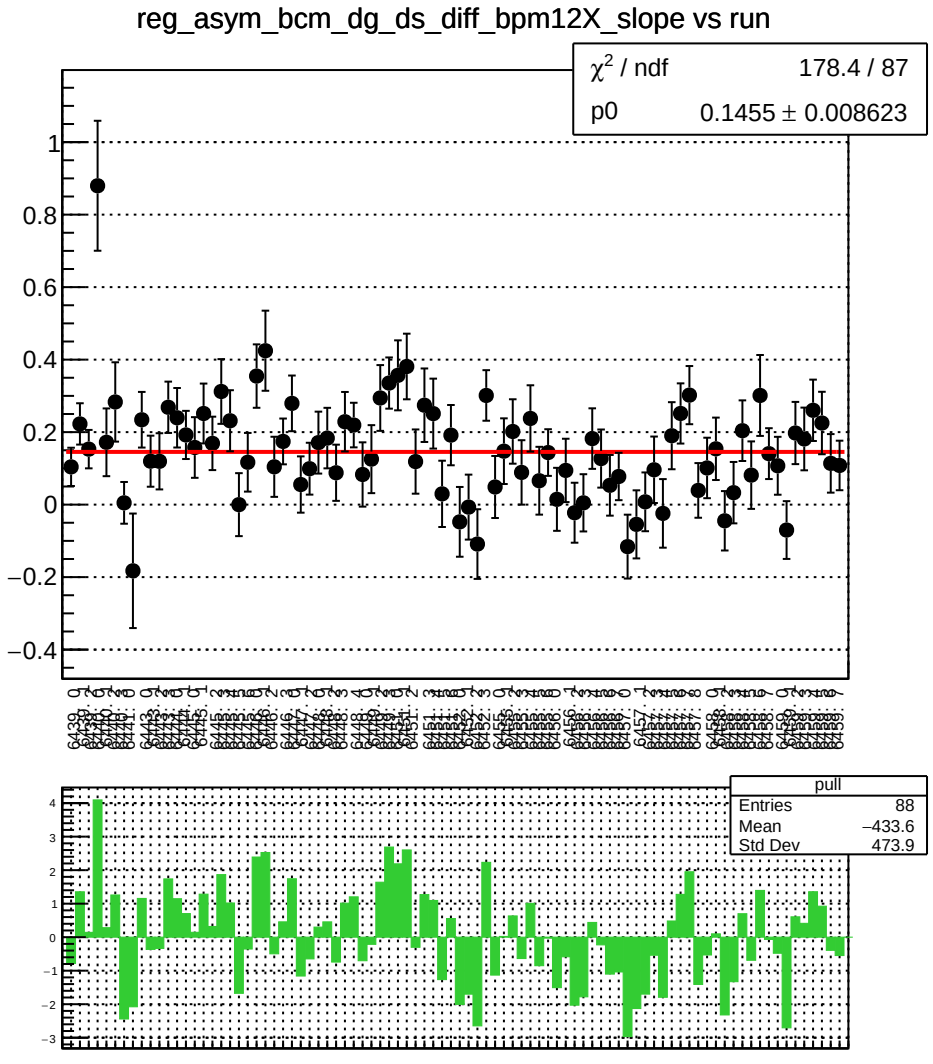

pull1D
Entries 88
Mean 0.07812
Std Dev 1.121

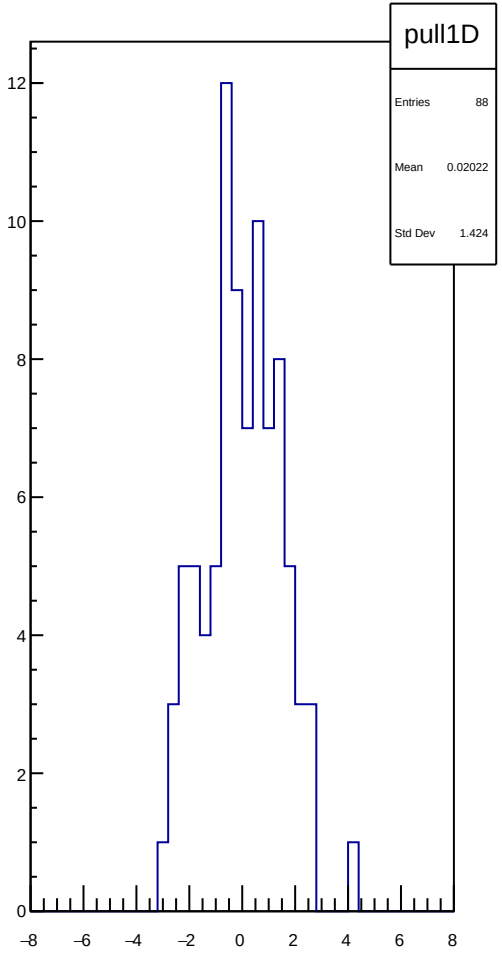

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 108.2 / 87
p0 −1.017 ± 0.2087
pull
Entries 88
Mean 41.16
Std Dev 29.27

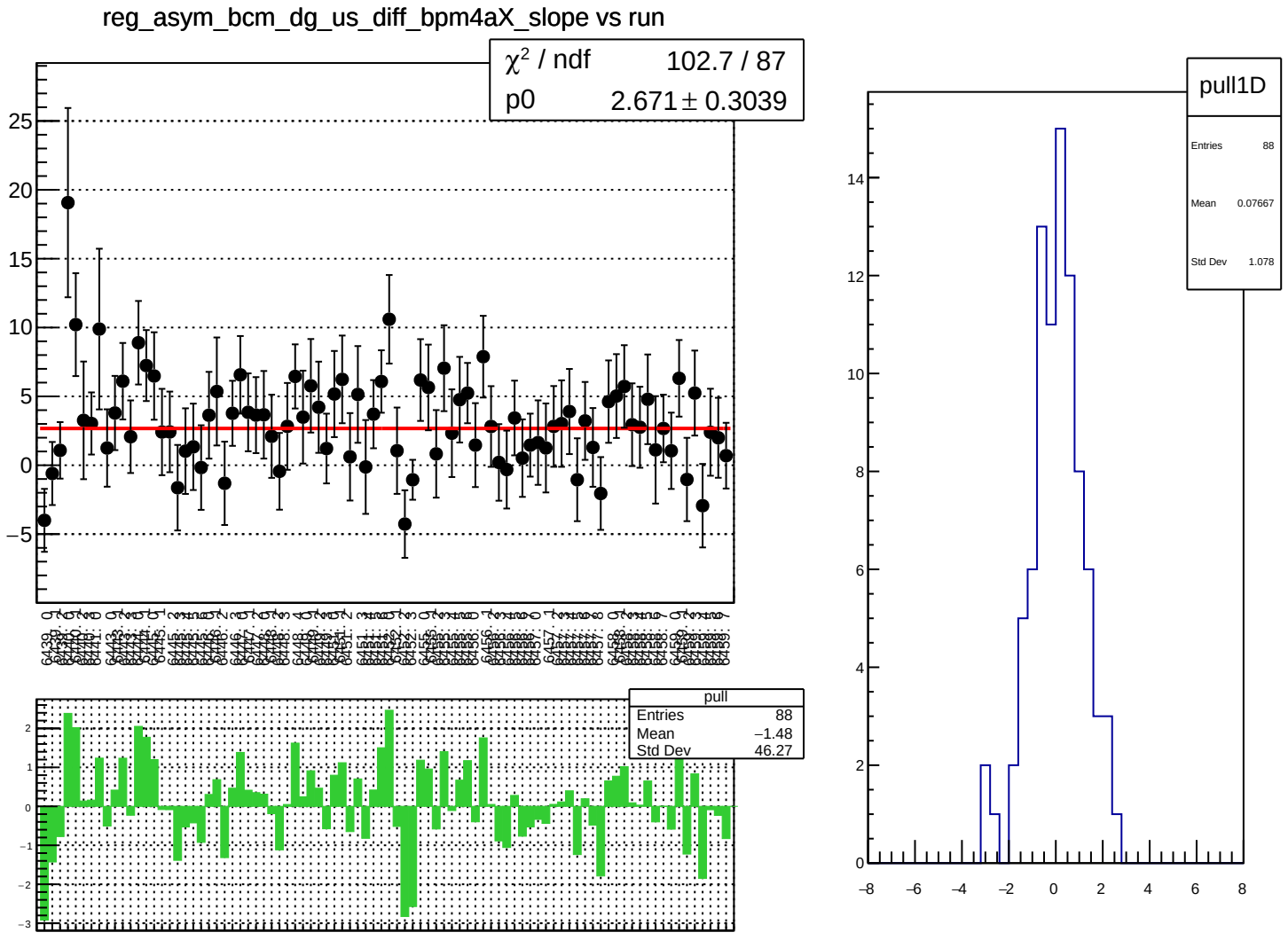

pull1D
Entries 88
Mean −0.02915
Std Dev 1.108

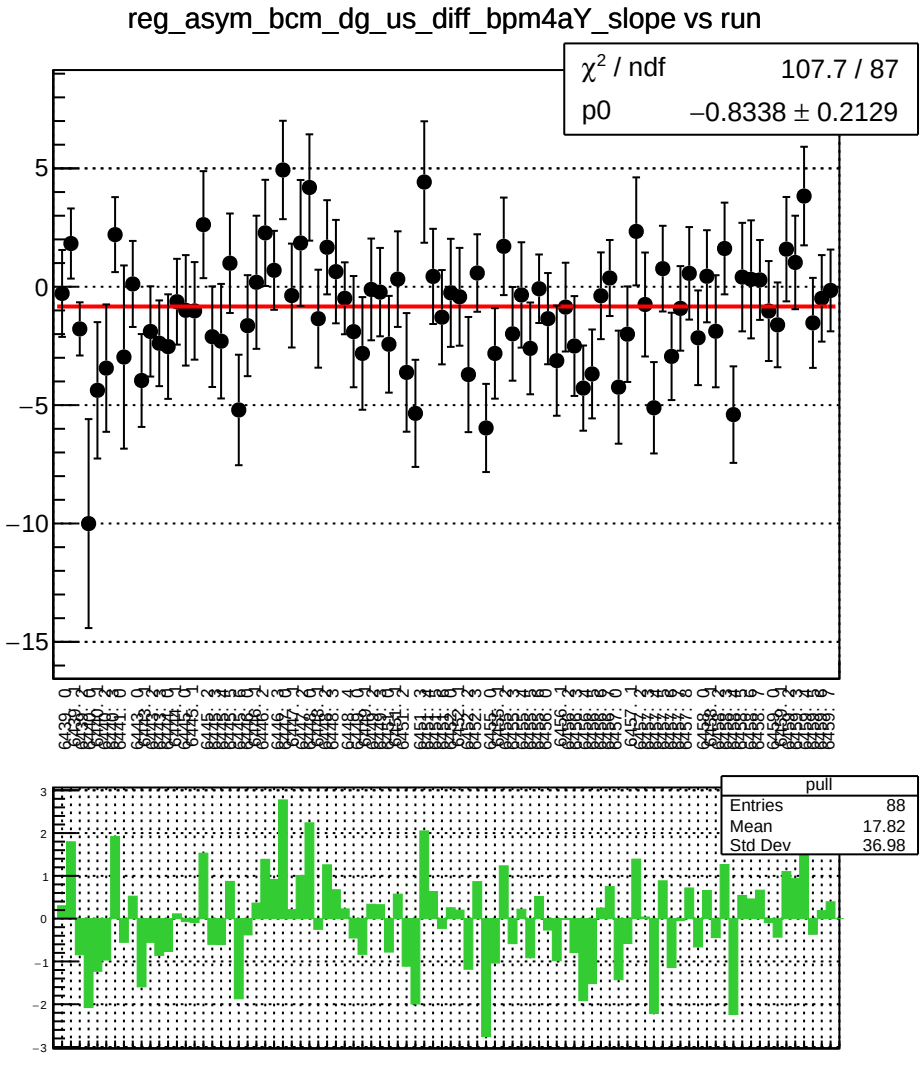

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 114.5 / 87
p0 −3.574 ± 0.3235
pull
Entries 88
Mean 19.33
Std Dev 29.03
pull1D
Entries 88
Mean −0.08252
Std Dev 1.137

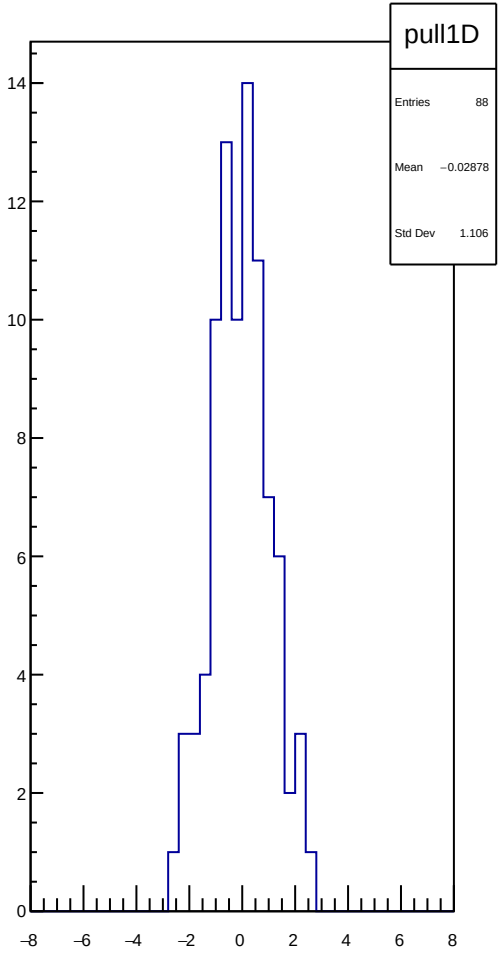

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 114.3 / 87
p0 2.37 ± 0.2096
pull
Entries 88
Mean 63.88
Std Dev 69.52
pull1D
Entries 88
Mean 0.0304
Std Dev 1.139

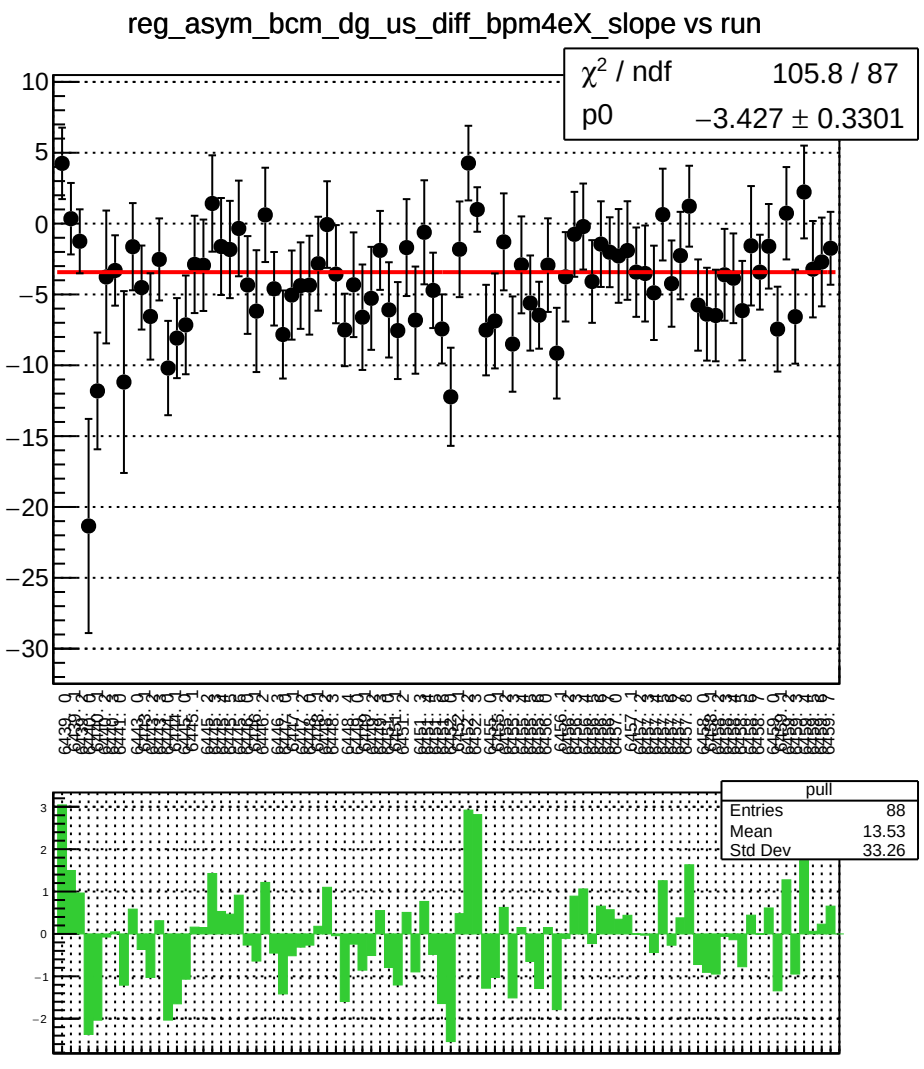

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 178.4 / 87
p0 0.1455 ± 0.008623
pull
Entries 88
Mean −433.6
Std Dev 473.9

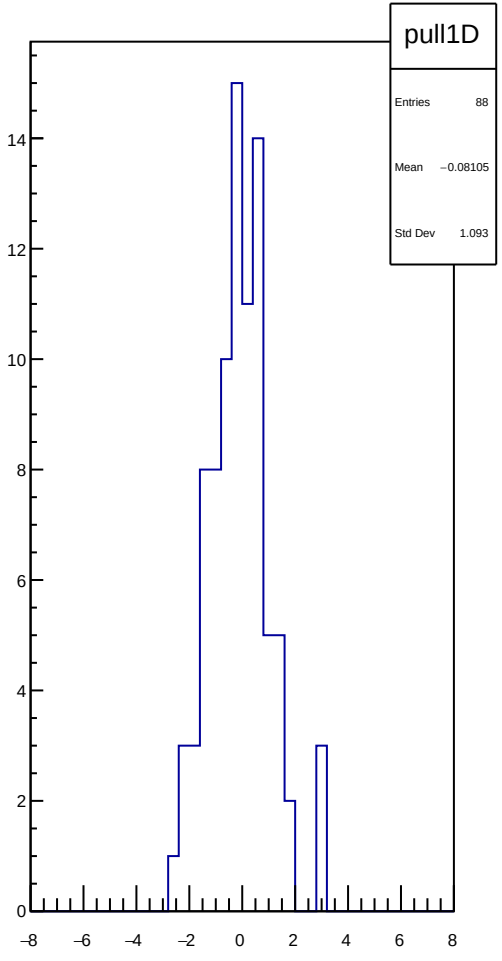

pull1D
Entries 88
Mean 0.02022
Std Dev 1.424

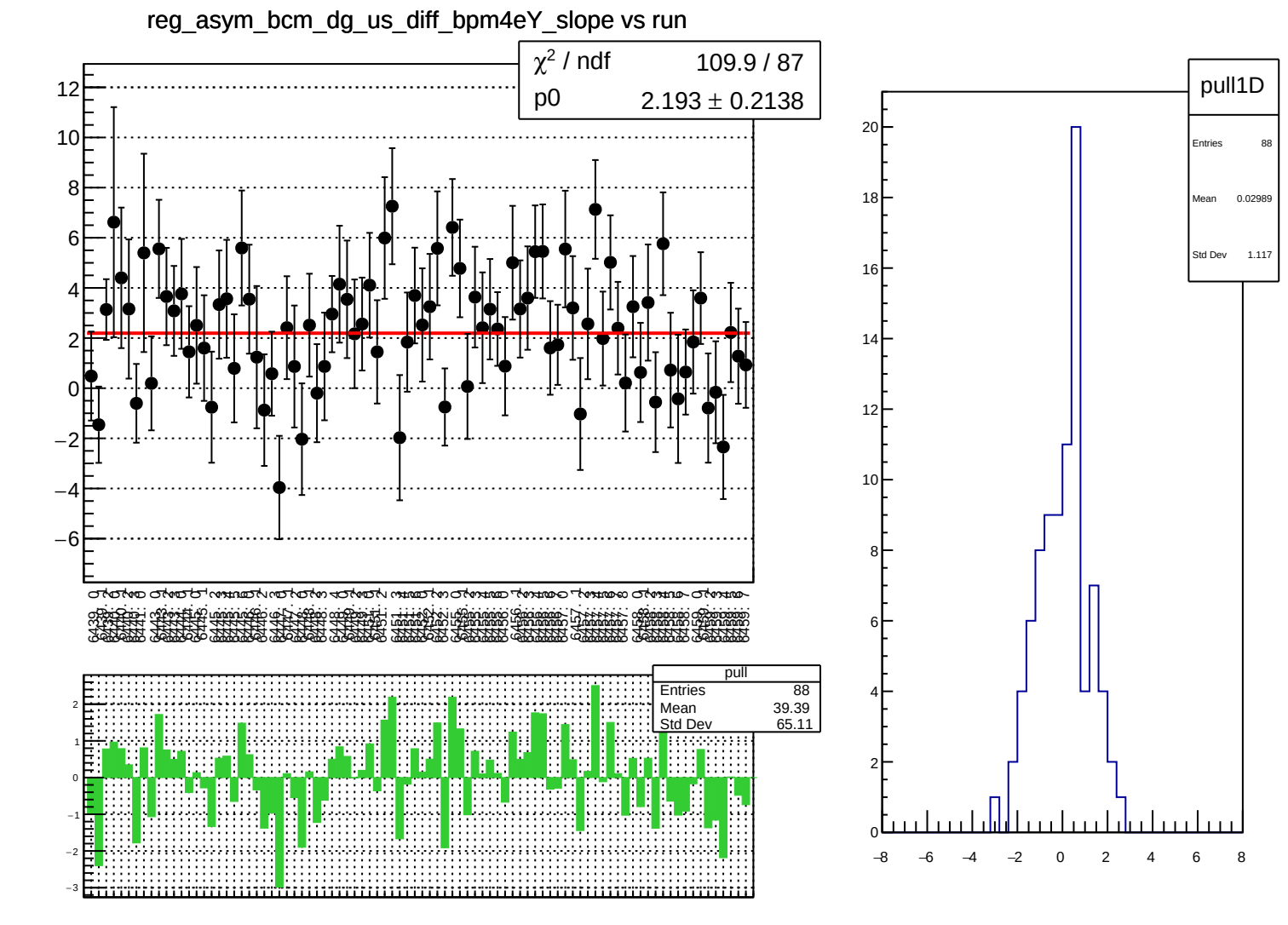

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 102.7 / 87
p0 2.671 ± 0.3039
pull
Entries 88
Mean −1.48
Std Dev 46.27
pull1D
Entries 88
Mean 0.07667
Std Dev 1.078

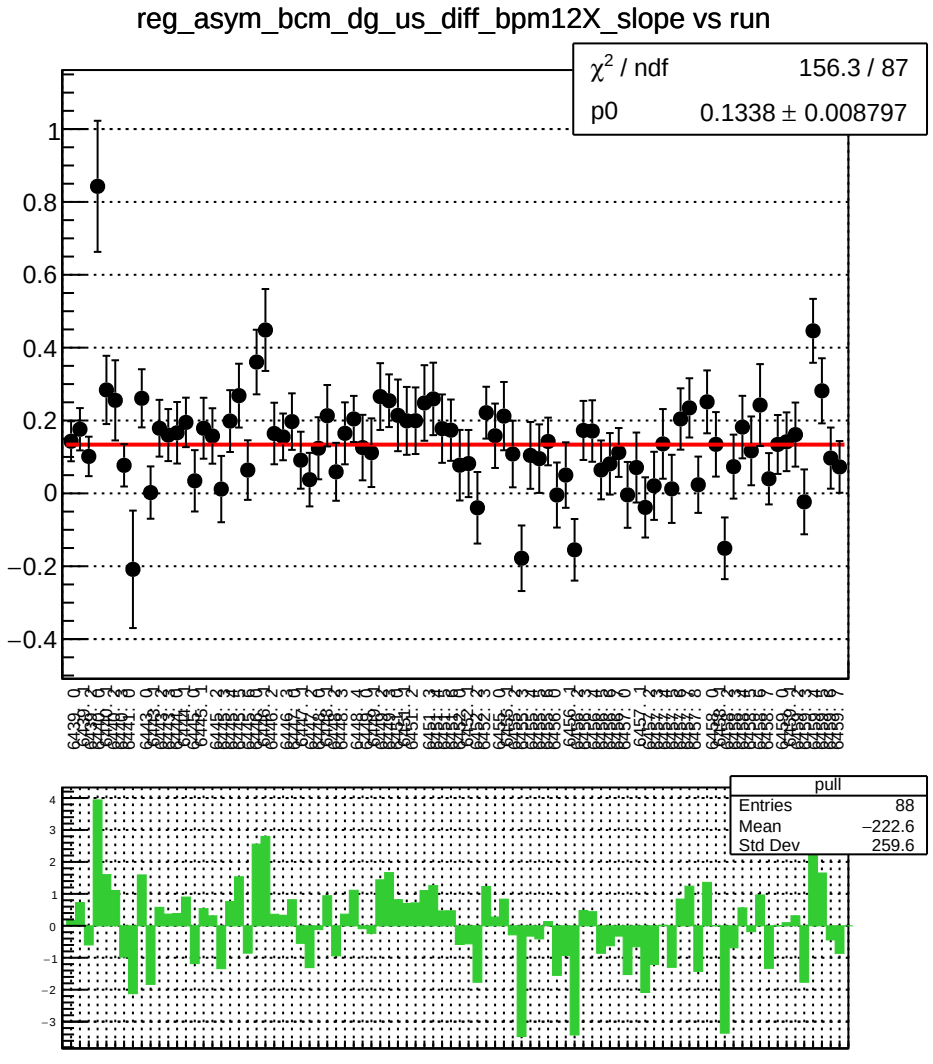

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 107.7 / 87
p0 −0.8338 ± 0.2129
pull
Entries 88
Mean 17.82
Std Dev 36.98

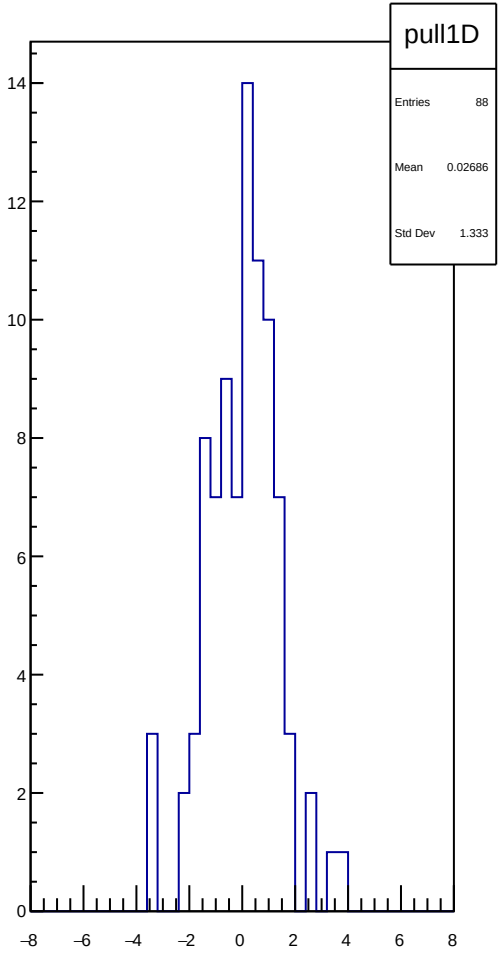

pull1D
Entries 88
Mean −0.02878
Std Dev 1.106

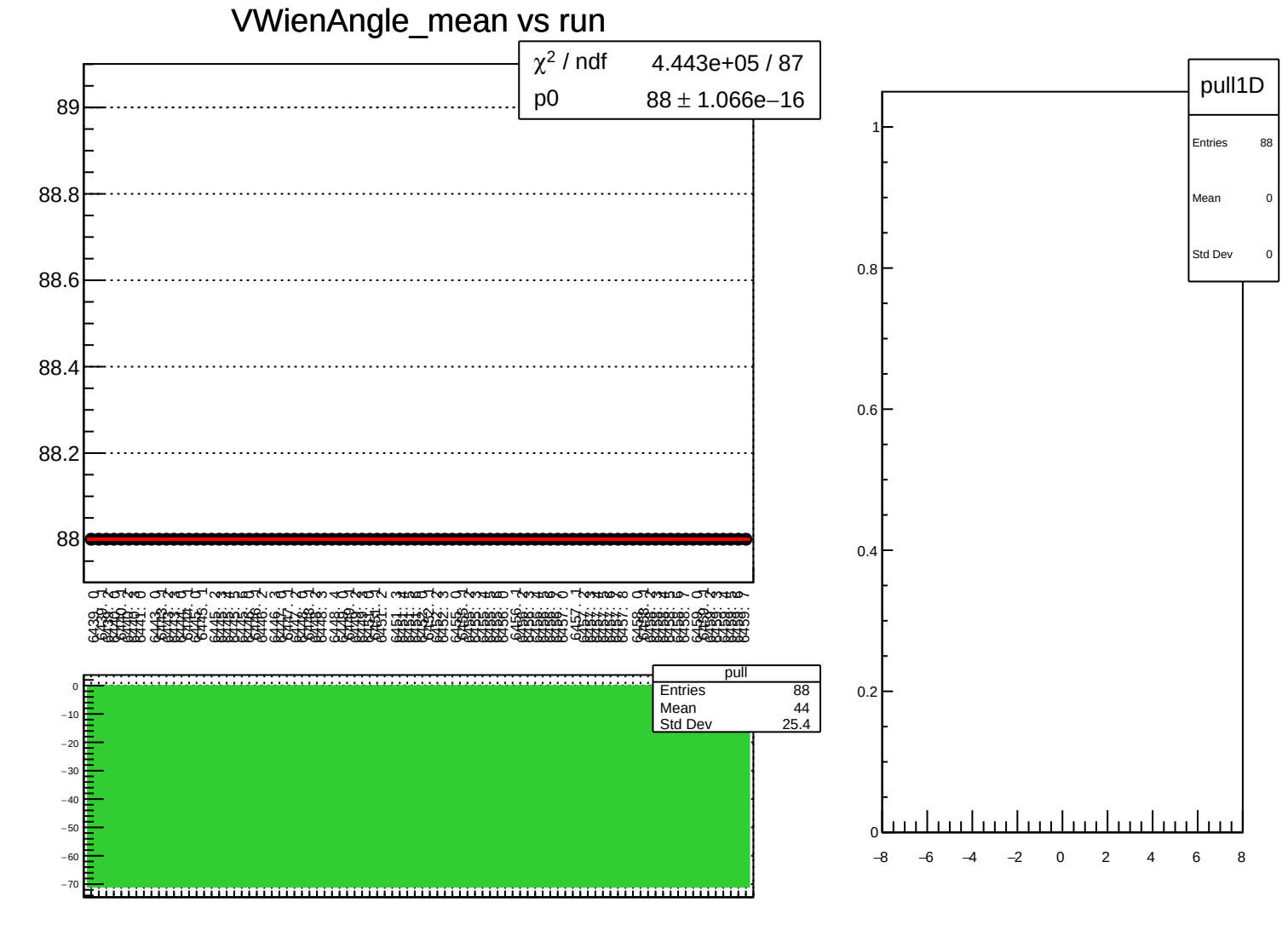

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 105.8 / 87
p0 −3.427 ± 0.3301
pull
Entries 88
Mean 13.53
Std Dev 33.26

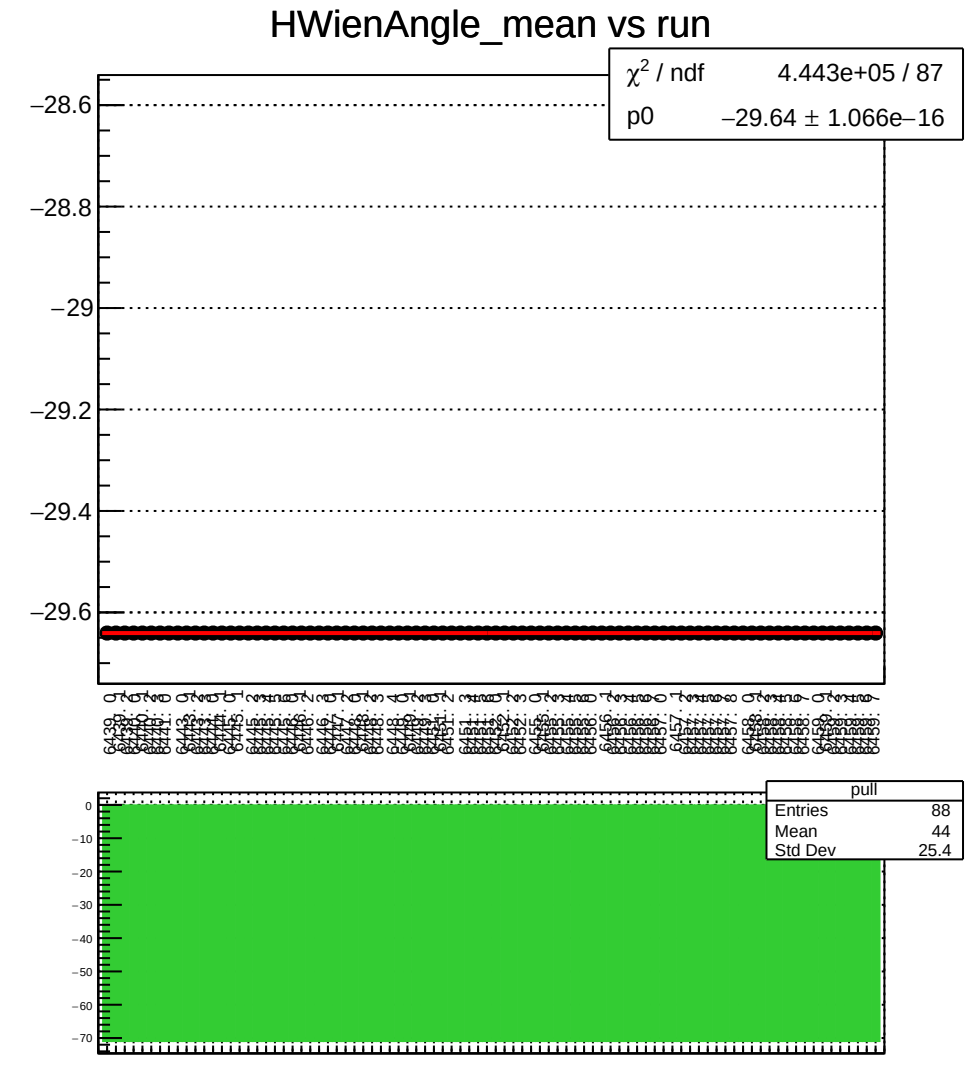

pull1D
Entries 88
Mean −0.08105
Std Dev 1.093

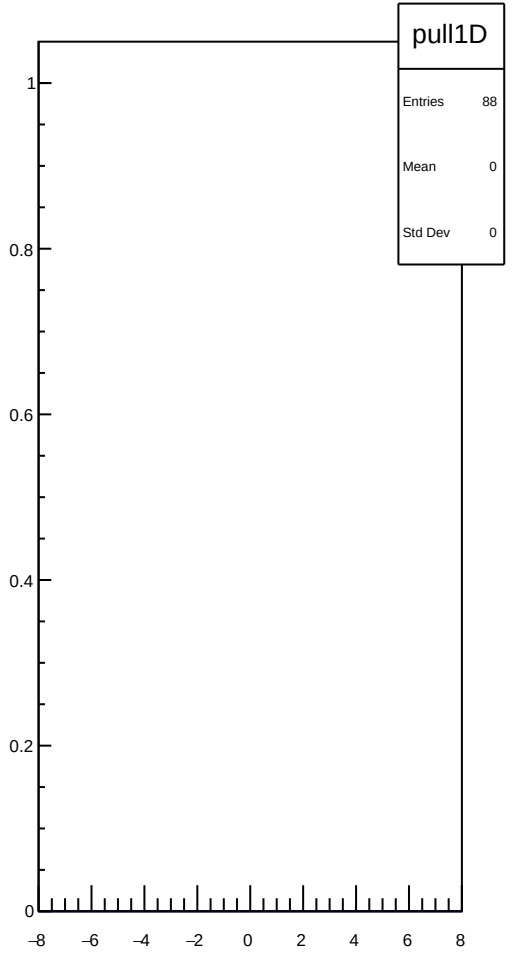

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 109.9 / 87
p0 2.193 ± 0.2138
pull
Entries 88
Mean 39.39
Std Dev 65.11
pull1D
Entries 88
Mean 0.02989
Std Dev 1.117

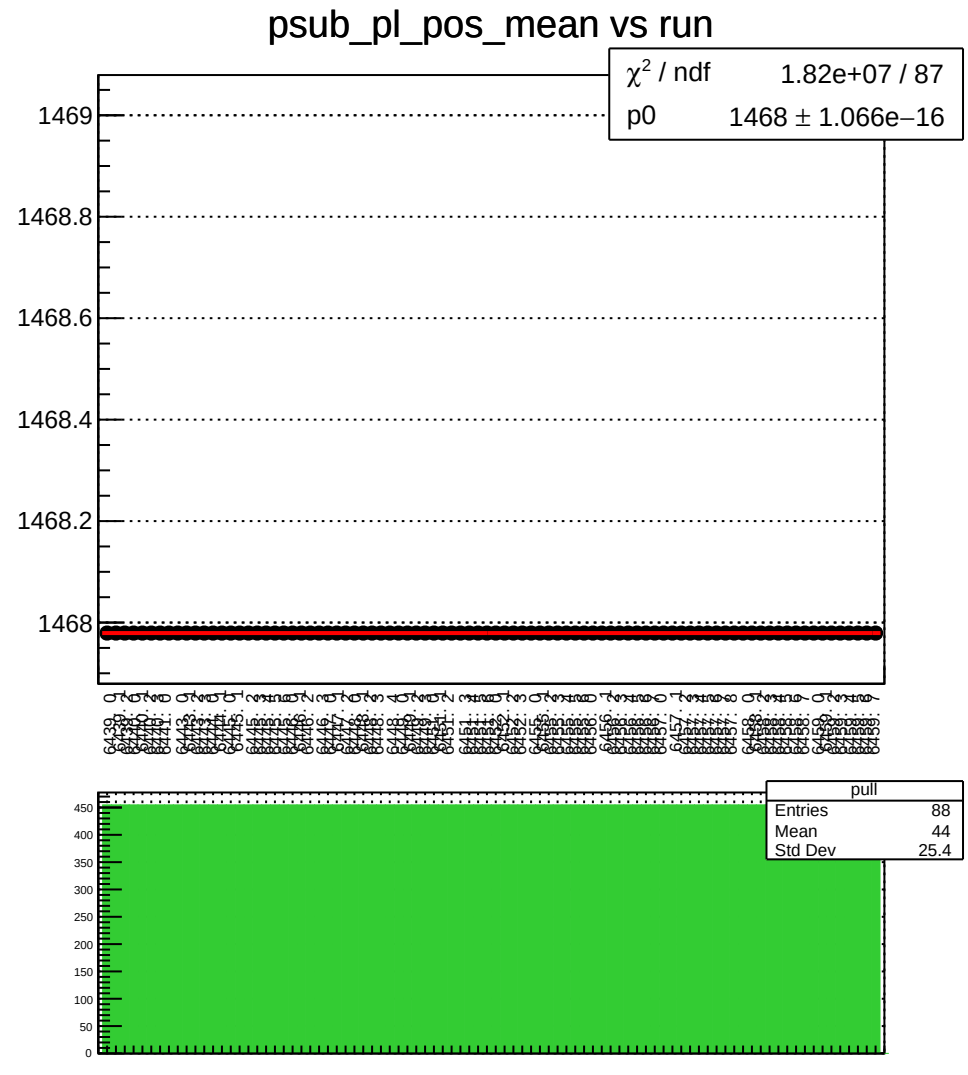

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 156.3 / 87
p0 0.1338 ± 0.008797
pull
Entries 88
Mean −222.6
Std Dev 259.6

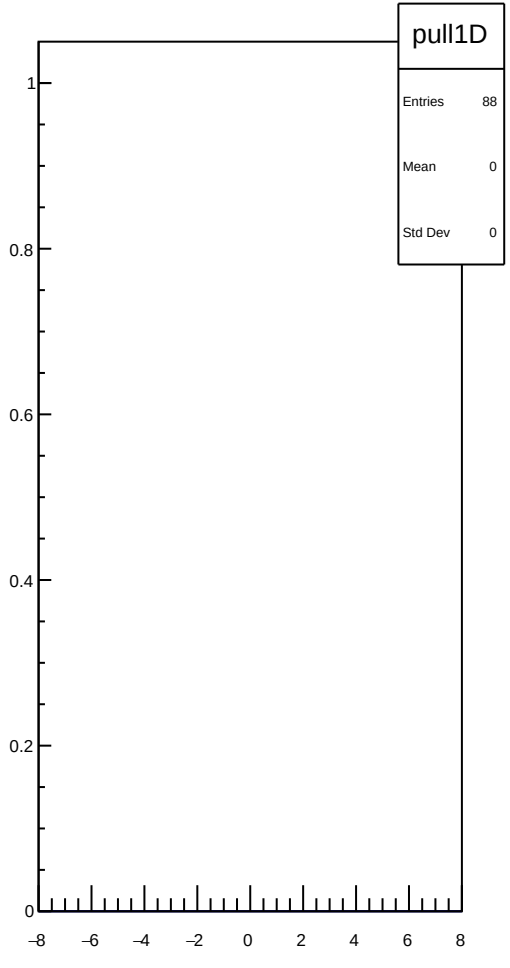

pull1D
Entries 88
Mean 0.02686
Std Dev 1.333

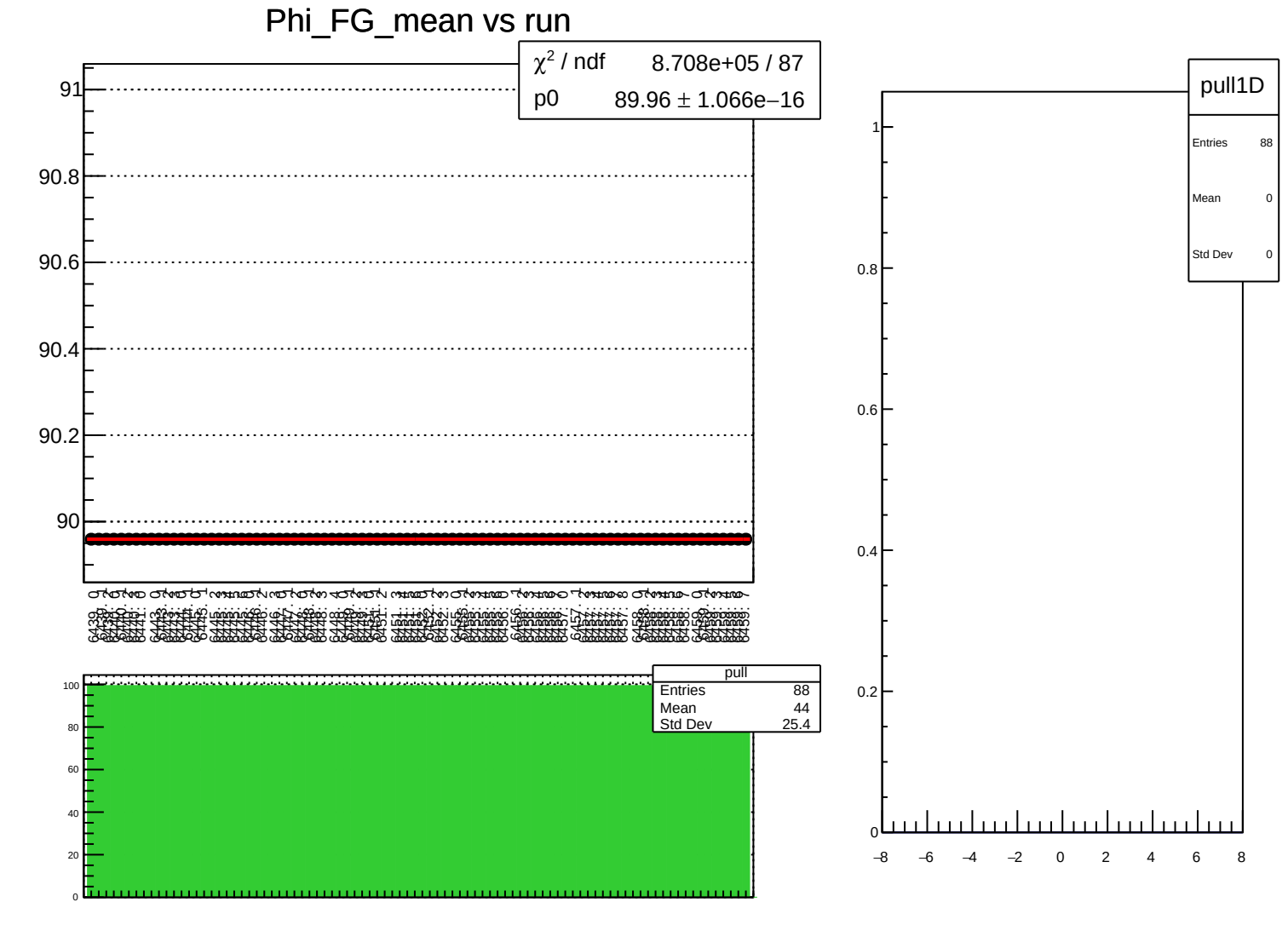

VWienAngle_mean vs run
χ² / ndf 4.443e+05 / 87
p0 88 ± 1.066e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 88
Mean 44
Std Dev 25.4
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

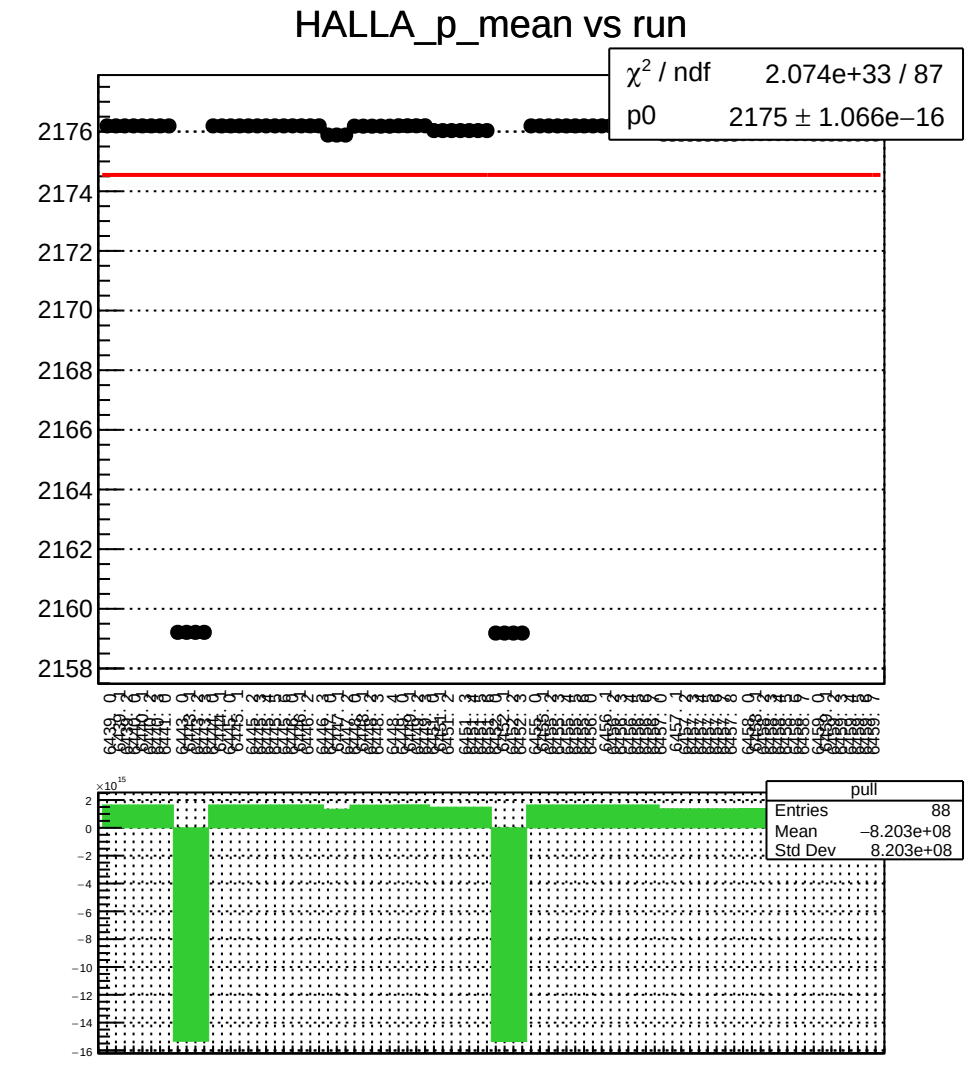

HWienAngle_mean vs run
χ² / ndf 4.443e+05 / 87
p0 −29.64 ± 1.066e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 88
Mean 44
Std Dev 25.4
0
−10
−20
−30
−40
−50
−60
−70

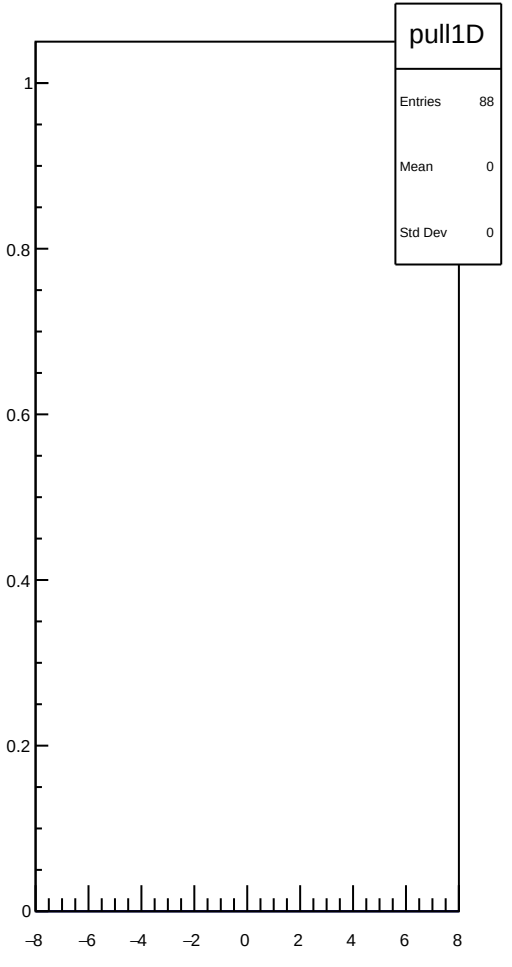

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

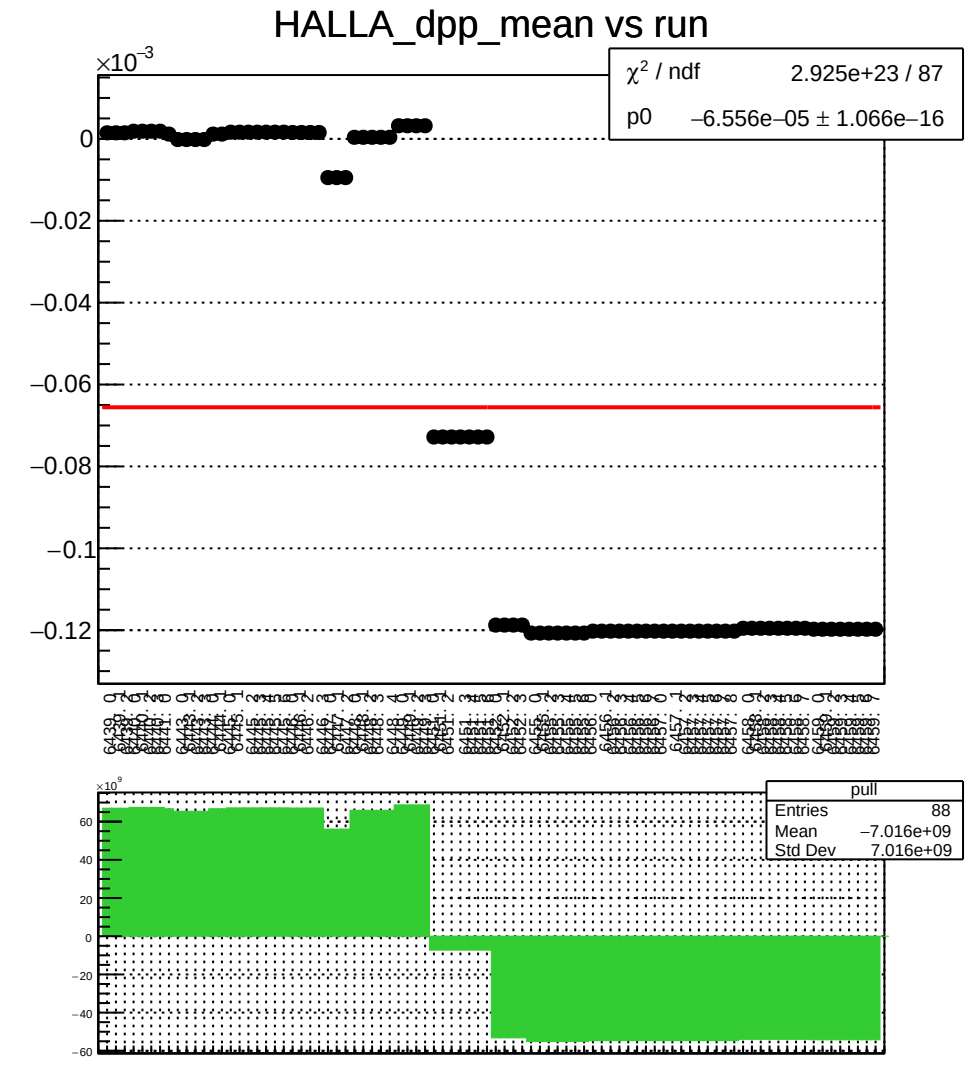

psub_pl_pos_mean vs run
χ² / ndf 1.82e+07 / 87
p0 1468 ± 1.066e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 88
Mean 44
Std Dev 25.4
450
400
350
300
250
200
150
100
50
0

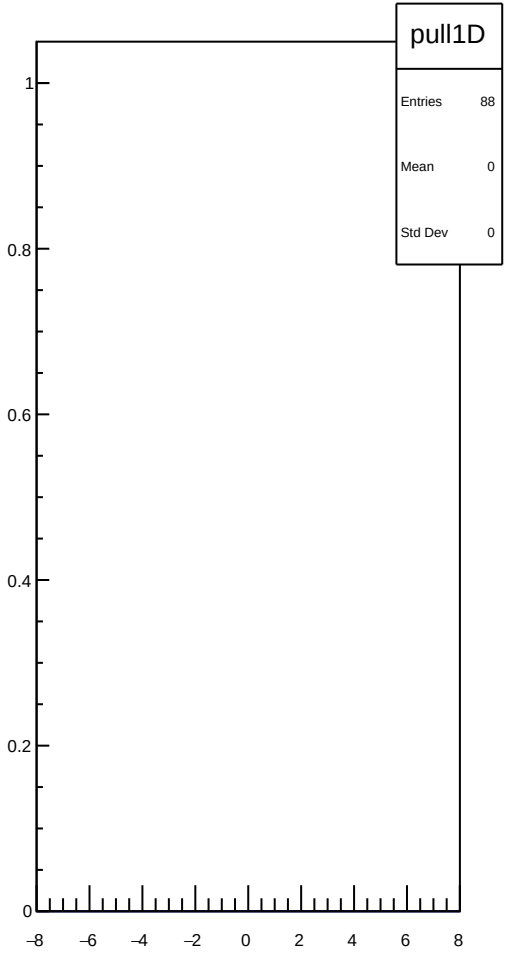

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


Phi_FG_mean vs run
χ² / ndf 8.708e+05 / 87
p0 89.96 ± 1.066e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 88
Mean 44
Std Dev 25.4
100
80
60
40
20
0
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

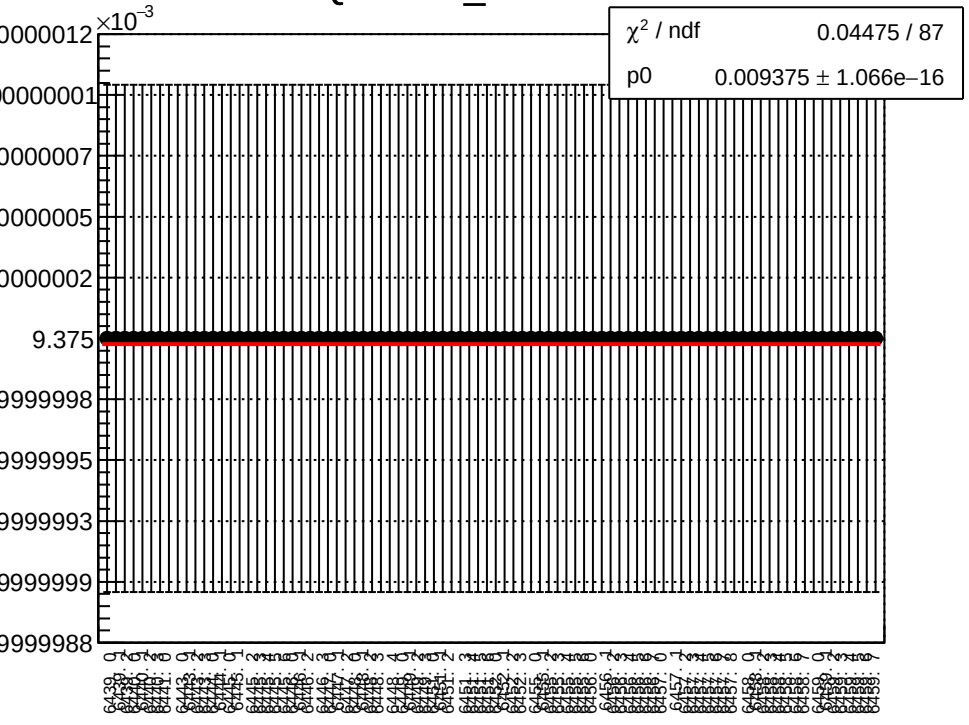

HALLA_p_mean vs run
χ² / ndf 2.074e+33 / 87
p0 2175 ± 1.066e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 88
Mean −8.203e+08
Std Dev 8.203e+08
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
−16

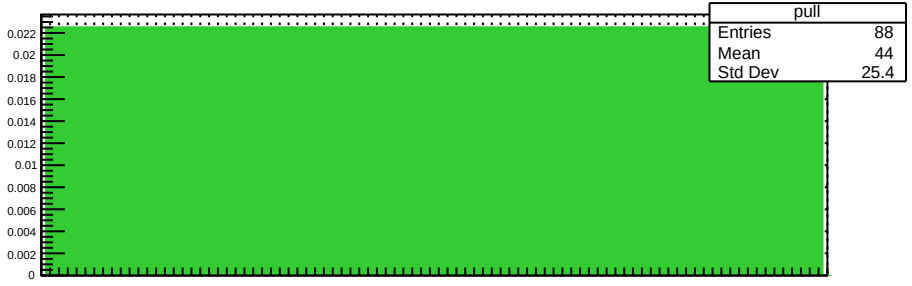

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

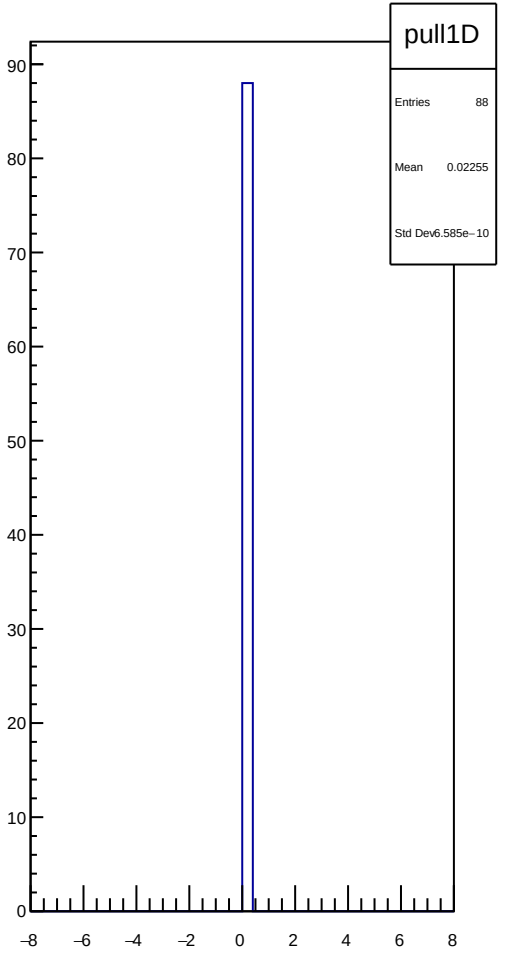

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.925e+23 / 87
p0 −6.556e−05 ± 1.066e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
60
40
20
0
−20
−40
−60
pull
Entries 88
Mean −7.016e+09
Std Dev 7.016e+09

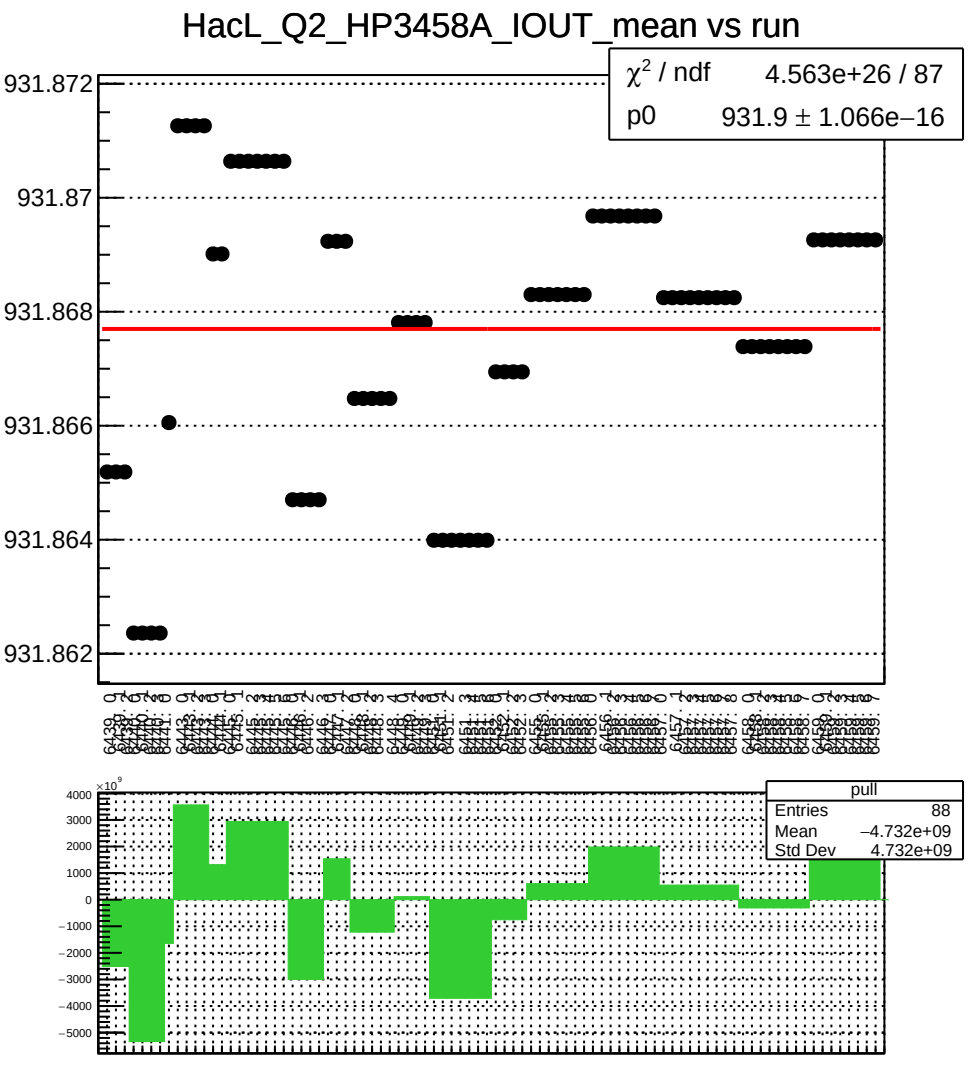

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

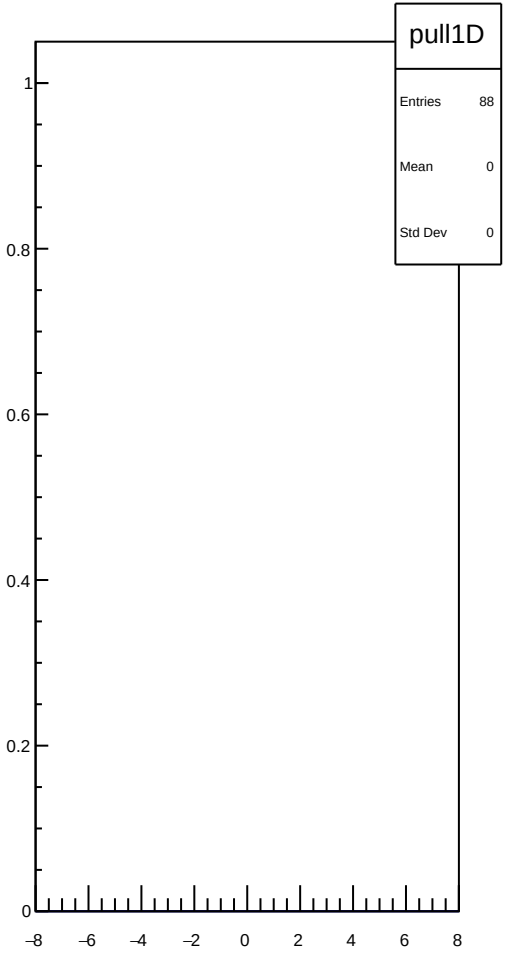
MQ171LM_mean vs run

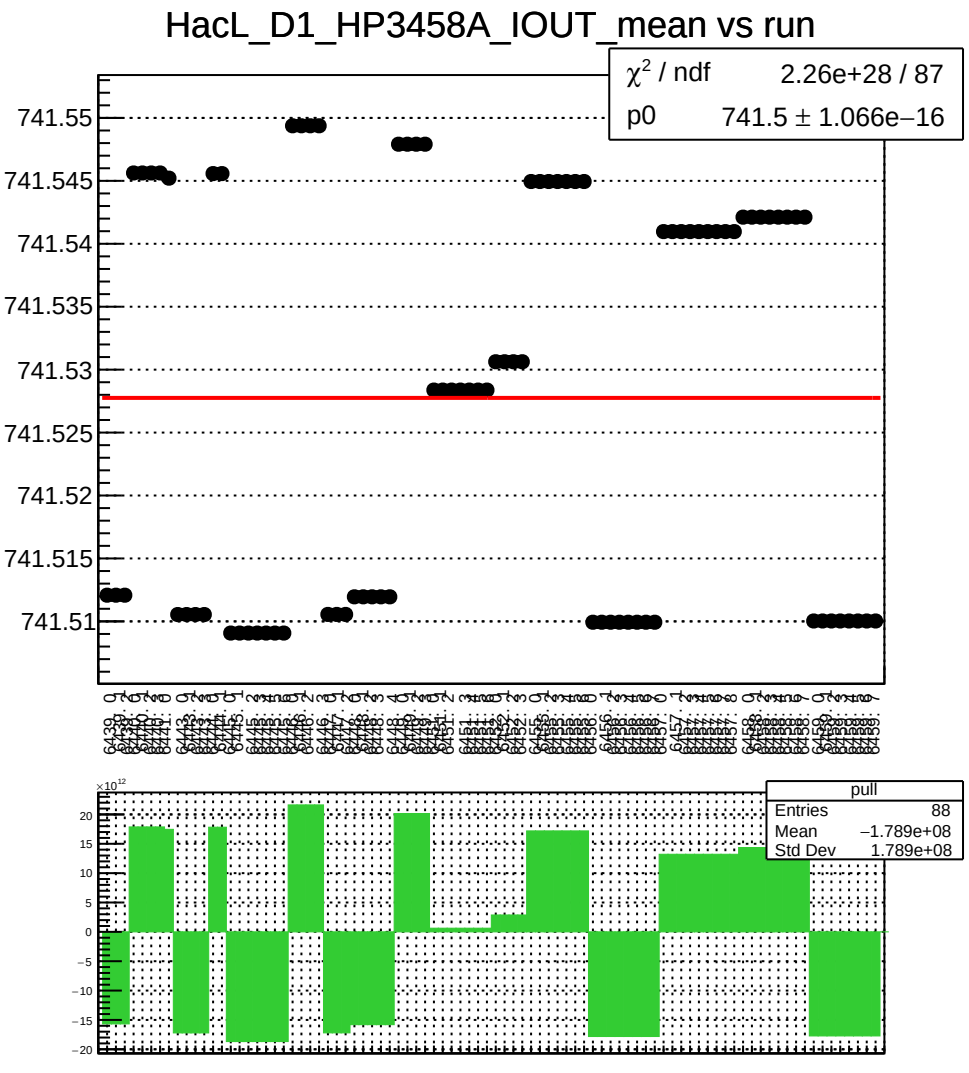


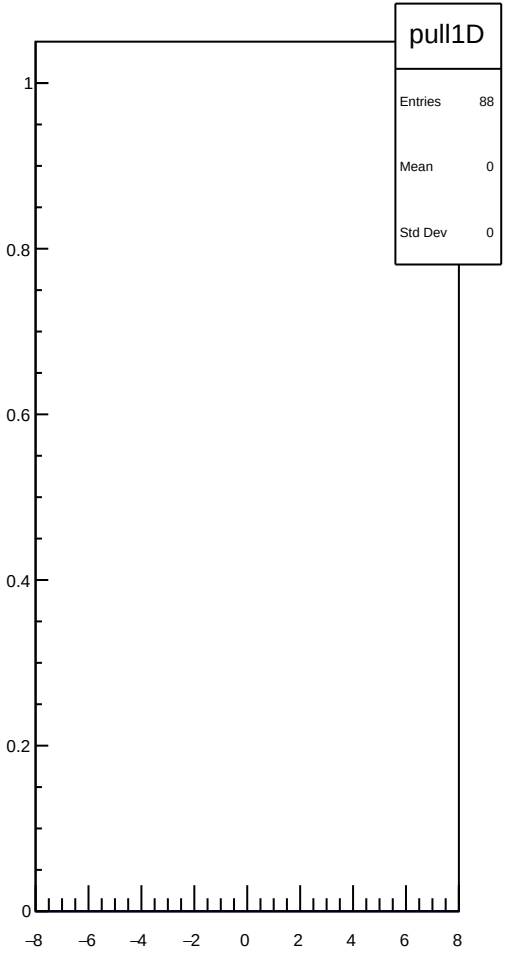


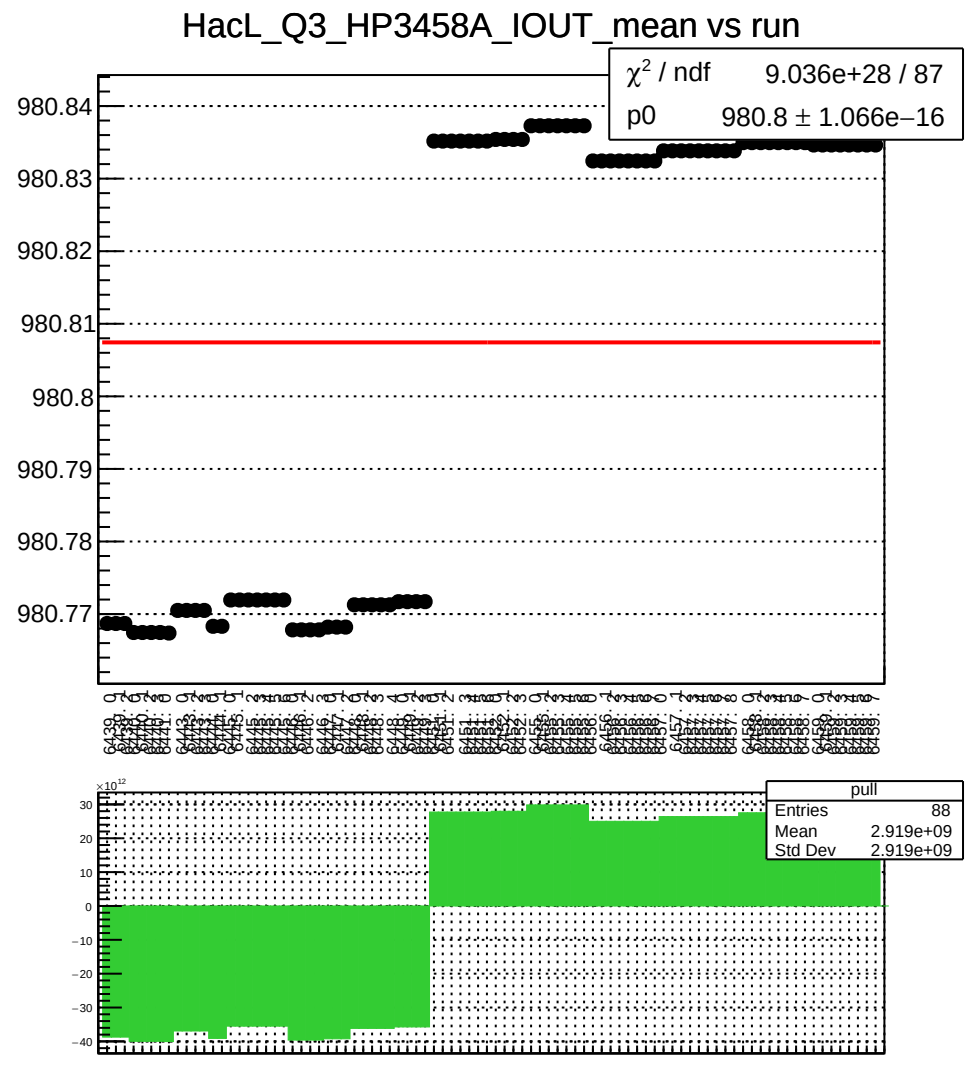


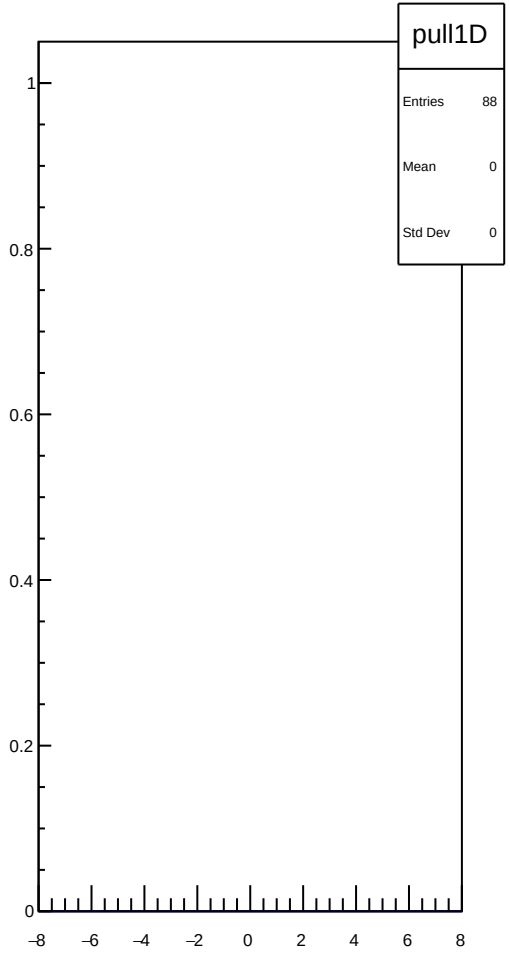

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.563e+26 / 87
p0 931.9 ± 1.066e−16
931.872
931.87
931.868
931.866
931.864
931.862
pull
Entries 88
Mean −4.732e+09
Std Dev 4.732e+09
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000

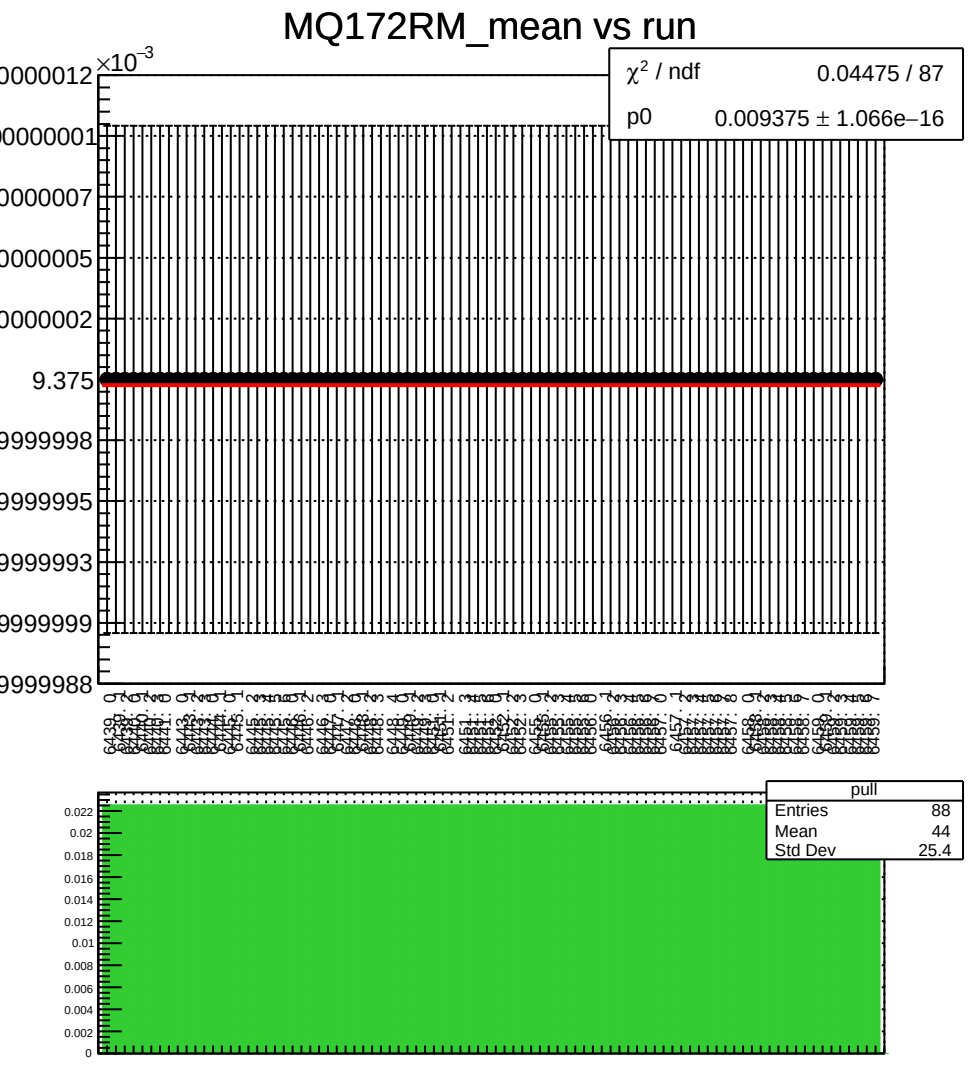

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

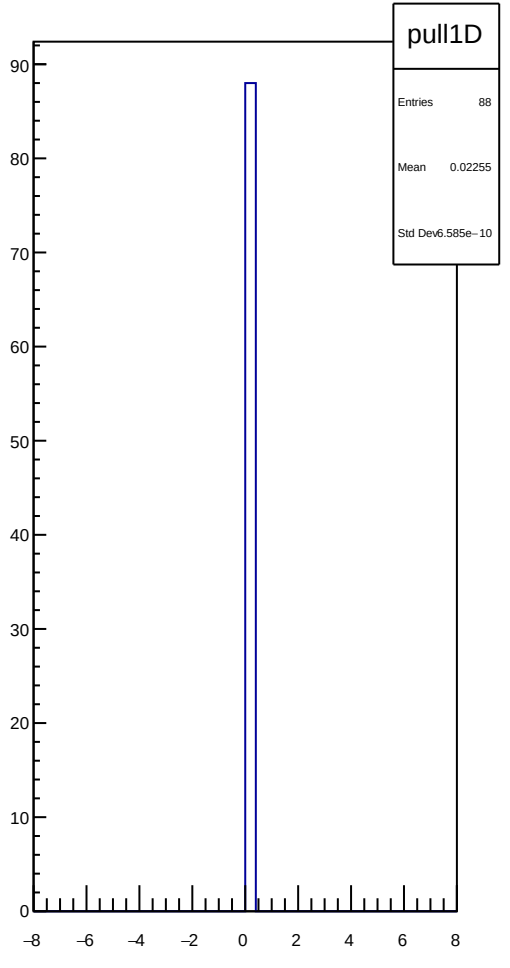

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.26e+28 / 87
p0 741.5 ± 1.066e−16
741.55
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
pull
Entries 88
Mean −1.789e+08
Std Dev 1.789e+08
×10¹²
20
15
10
5
0
−5
−10
−15
−20

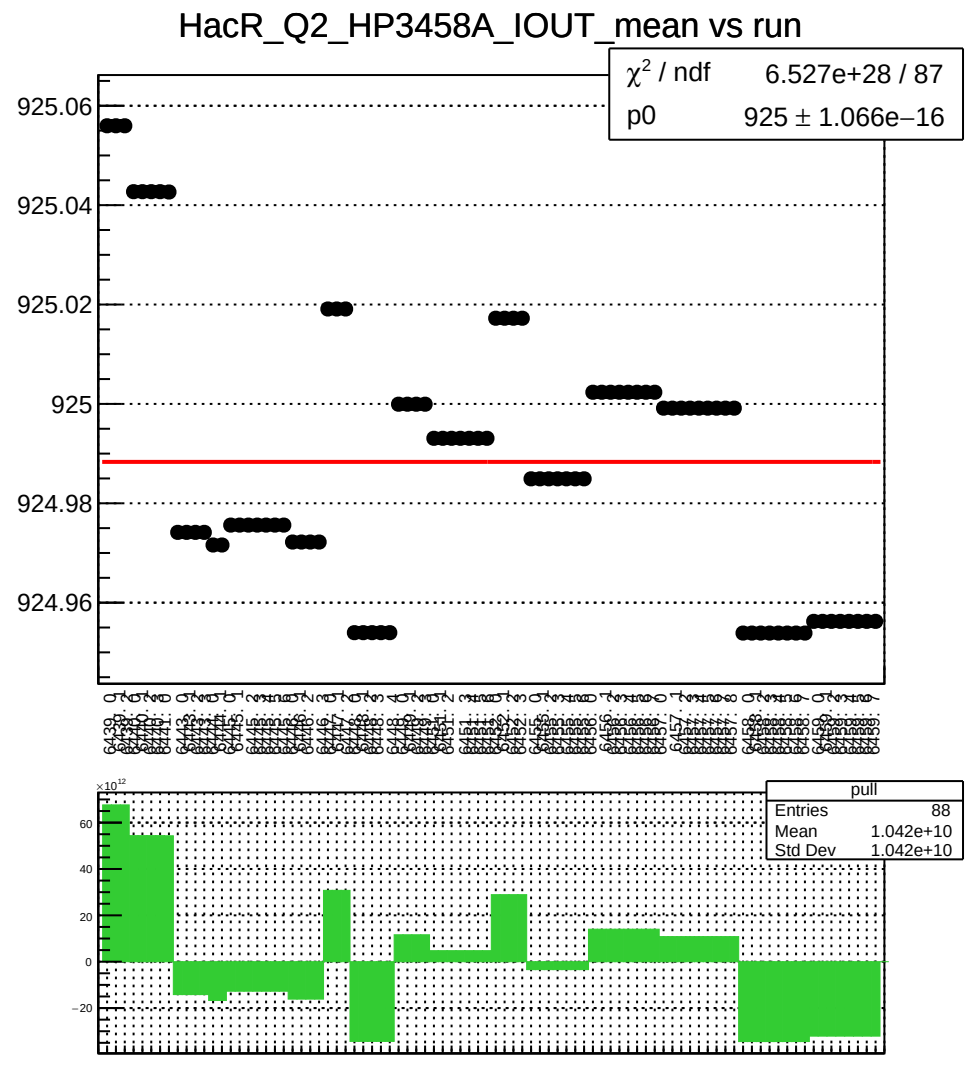

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

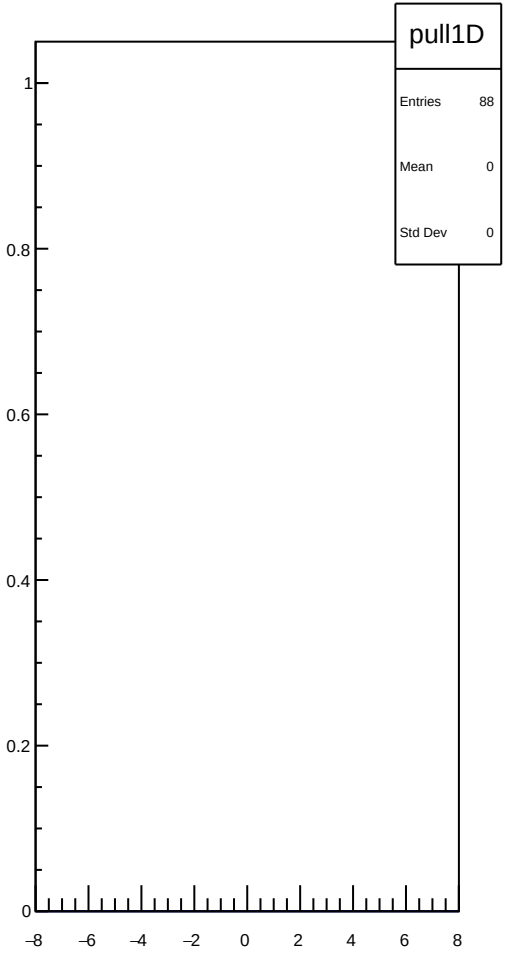

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 9.036e+28 / 87
p0 980.8 ± 1.066e−16
980.84
980.83
980.82
980.81
980.8
980.79
980.78
980.77
pull
Entries 88
Mean 2.919e+09
Std Dev 2.919e+09
×10¹²
30
20
10
0
−10
−20
−30
−40

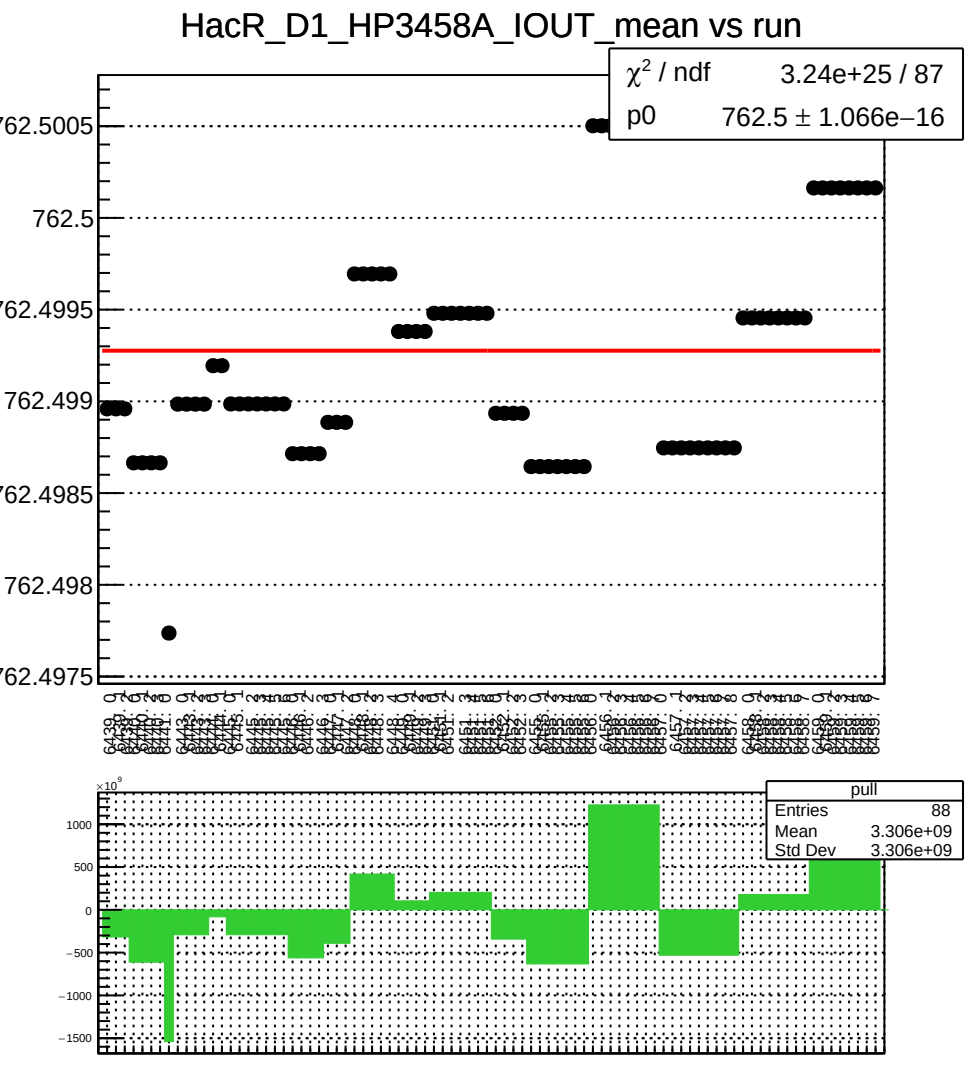

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

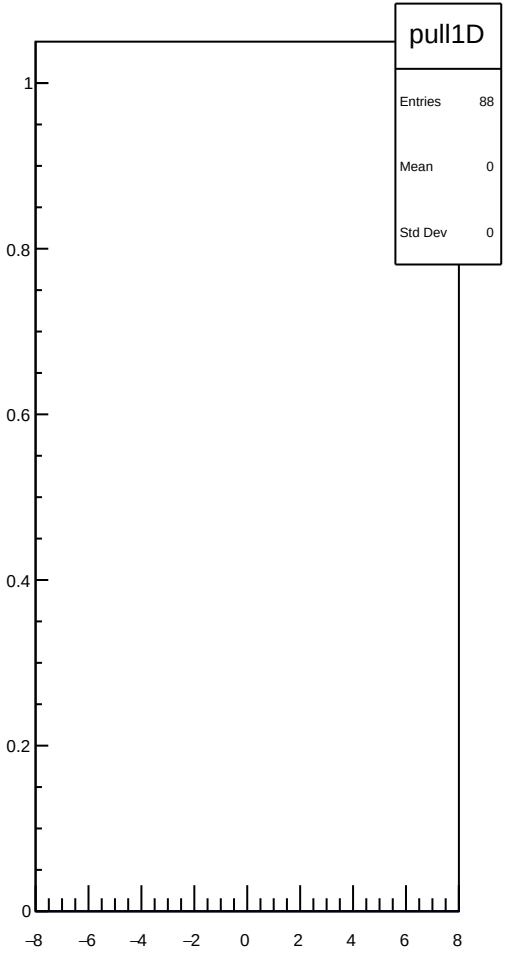

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
9.375
pull
Entries 88
Mean 44
Std Dev 25.4

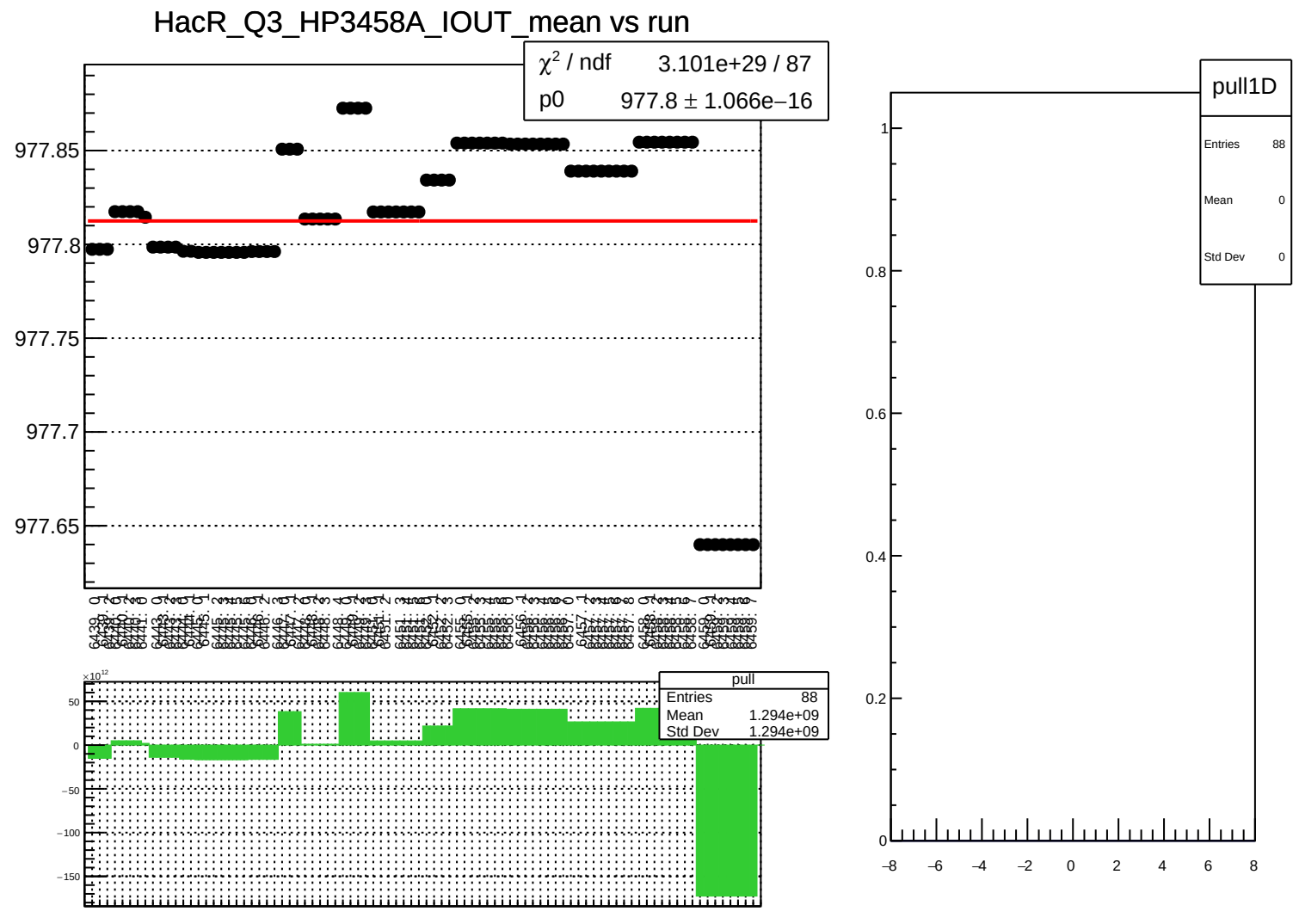

pull1D
Entries 88
Mean 0.02255
Std Dev 6.585e−10

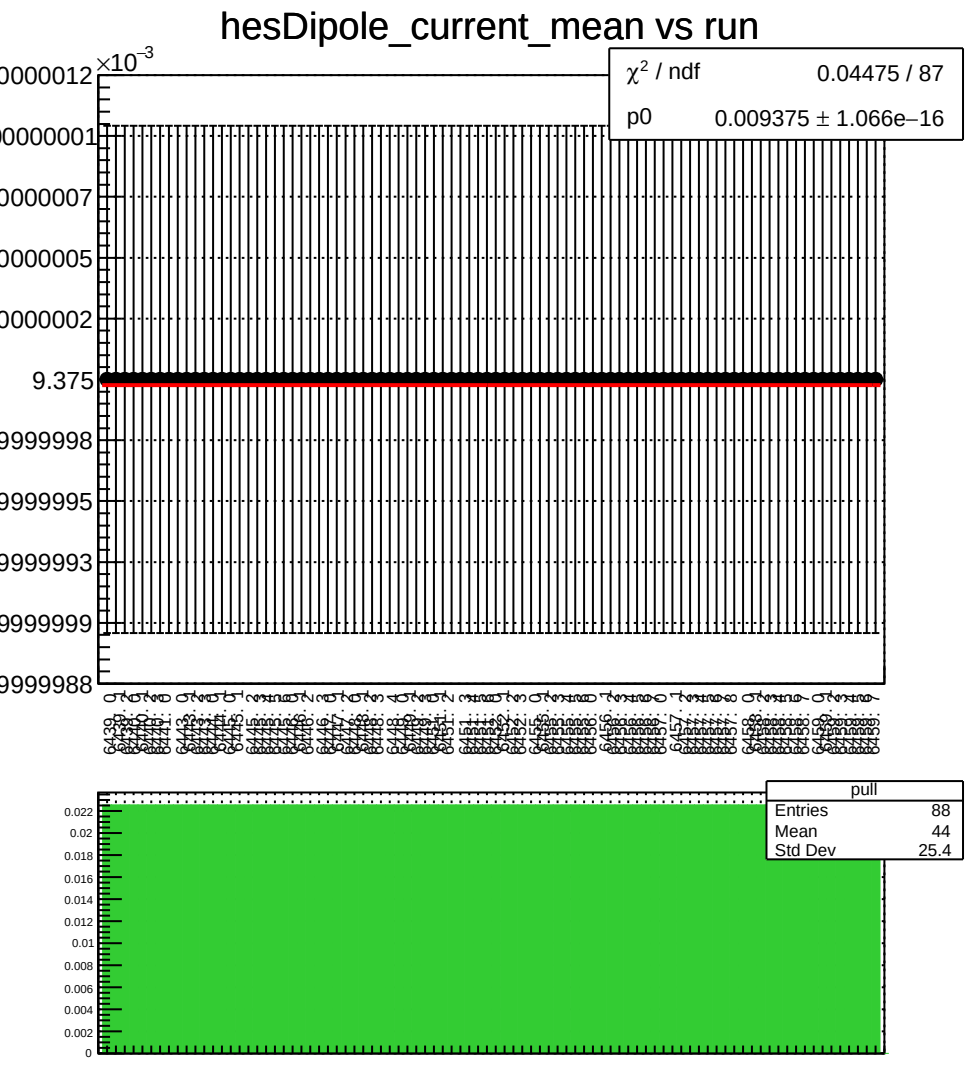

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 6.527e+28 / 87
p0 925 ± 1.066e−16
925.06
925.04
925.02
925
924.98
924.96
pull
Entries 88
Mean 1.042e+10
Std Dev 1.042e+10
×10¹²
60
40
20
0
−20

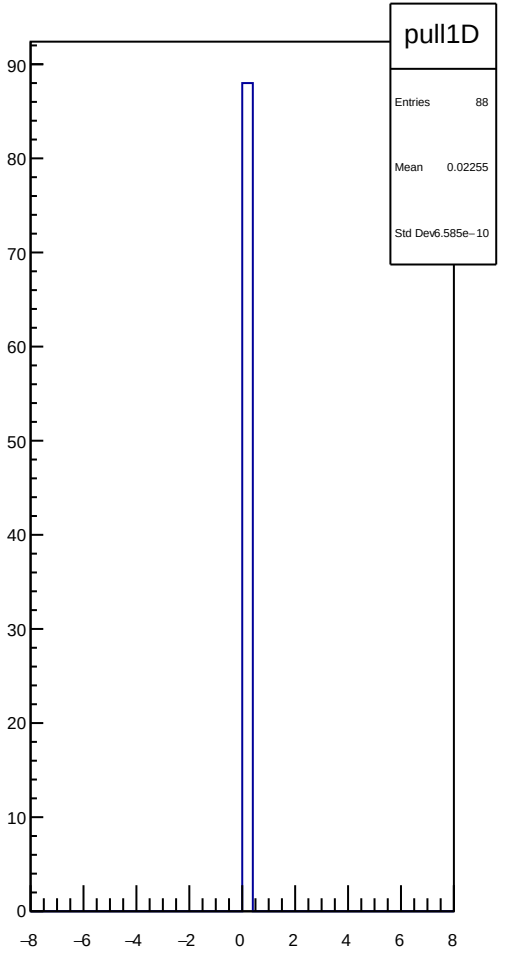

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

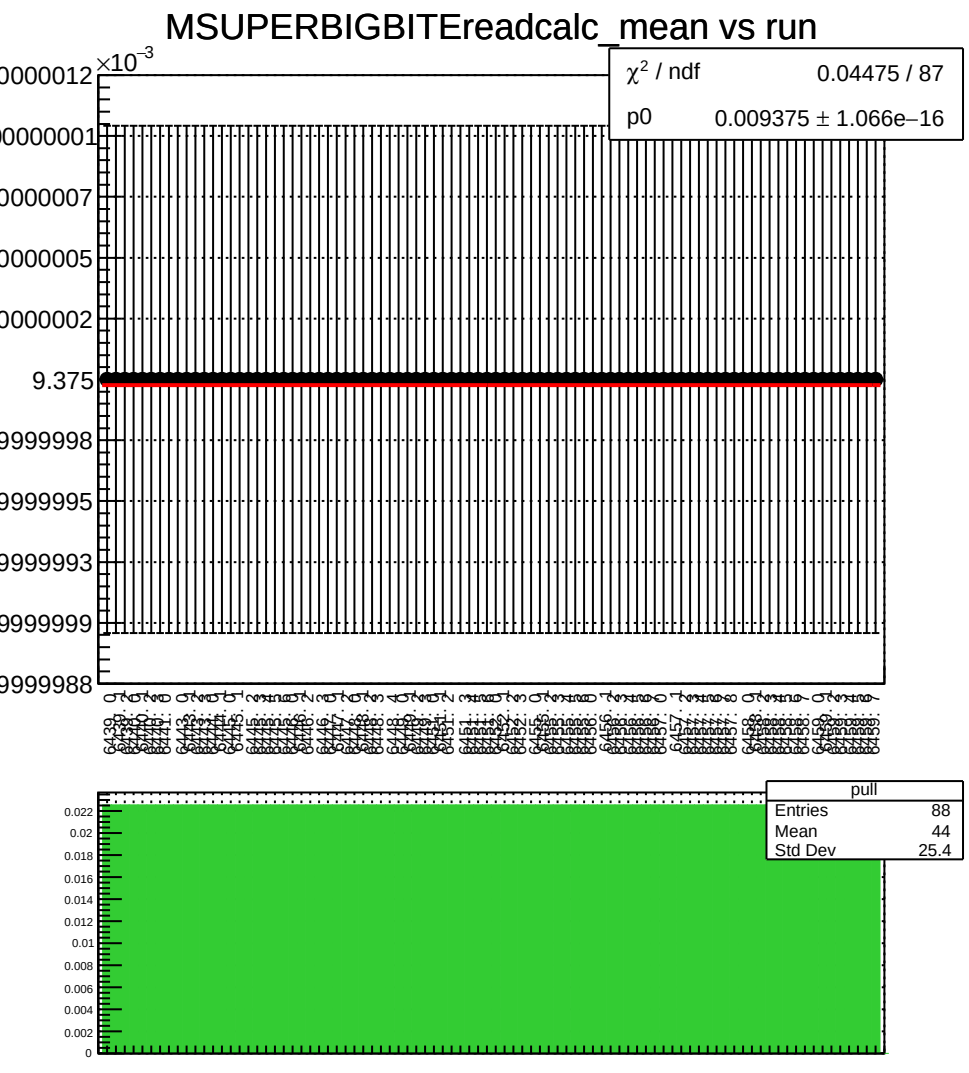

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.24e+25 / 87
p0 762.5 ± 1.066e−16
762.5005
762.5
762.4995
762.499
762.4985
762.498
762.4975
pull
Entries 88
Mean 3.306e+09
Std Dev 3.306e+09
×10⁹
1000
500
0
−500
−1000
−1500

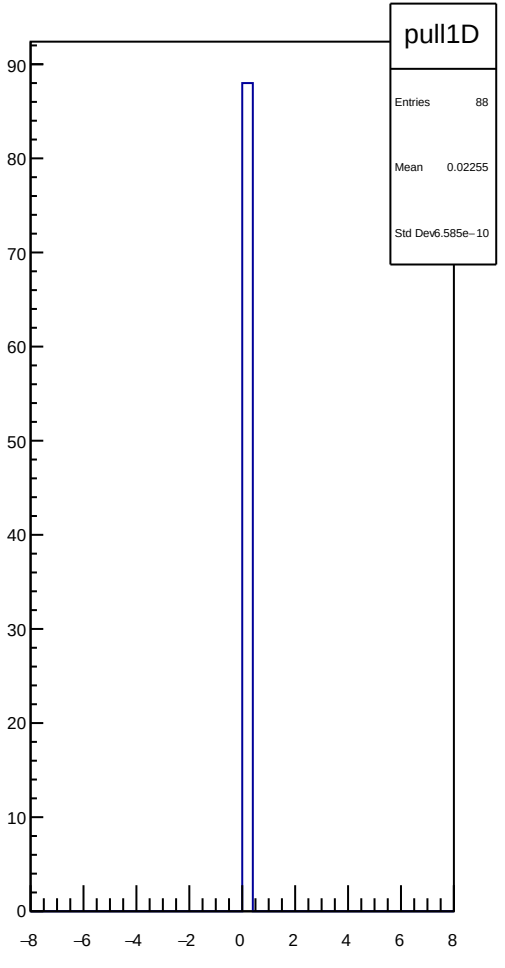

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

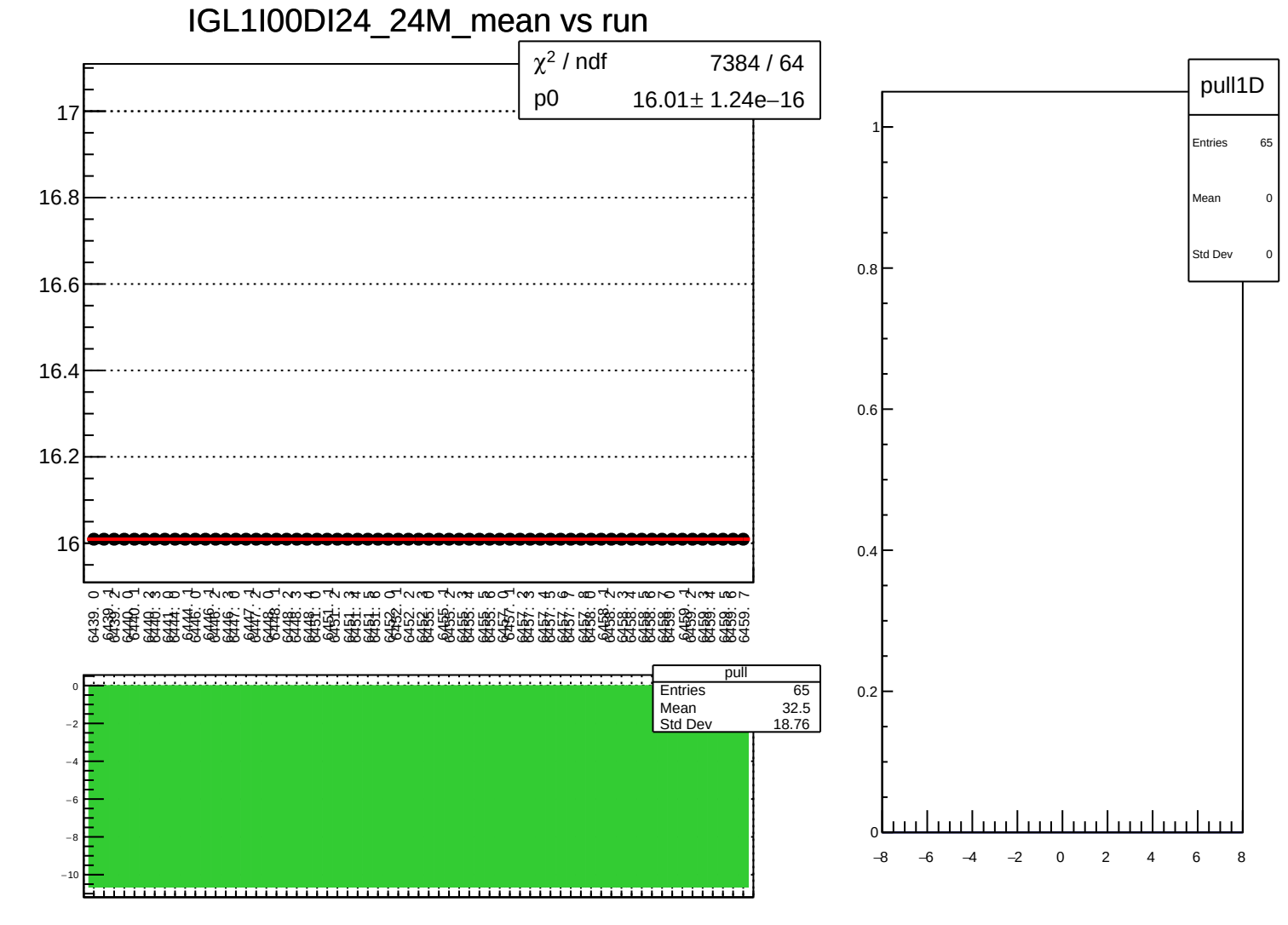

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.101e+29 / 87
p0 977.8 ± 1.066e−16
977.85
977.8
977.75
977.7
977.65
×10¹²
50
0
−50
−100
−150
pull
Entries 88
Mean 1.294e+09
Std Dev 1.294e+09
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

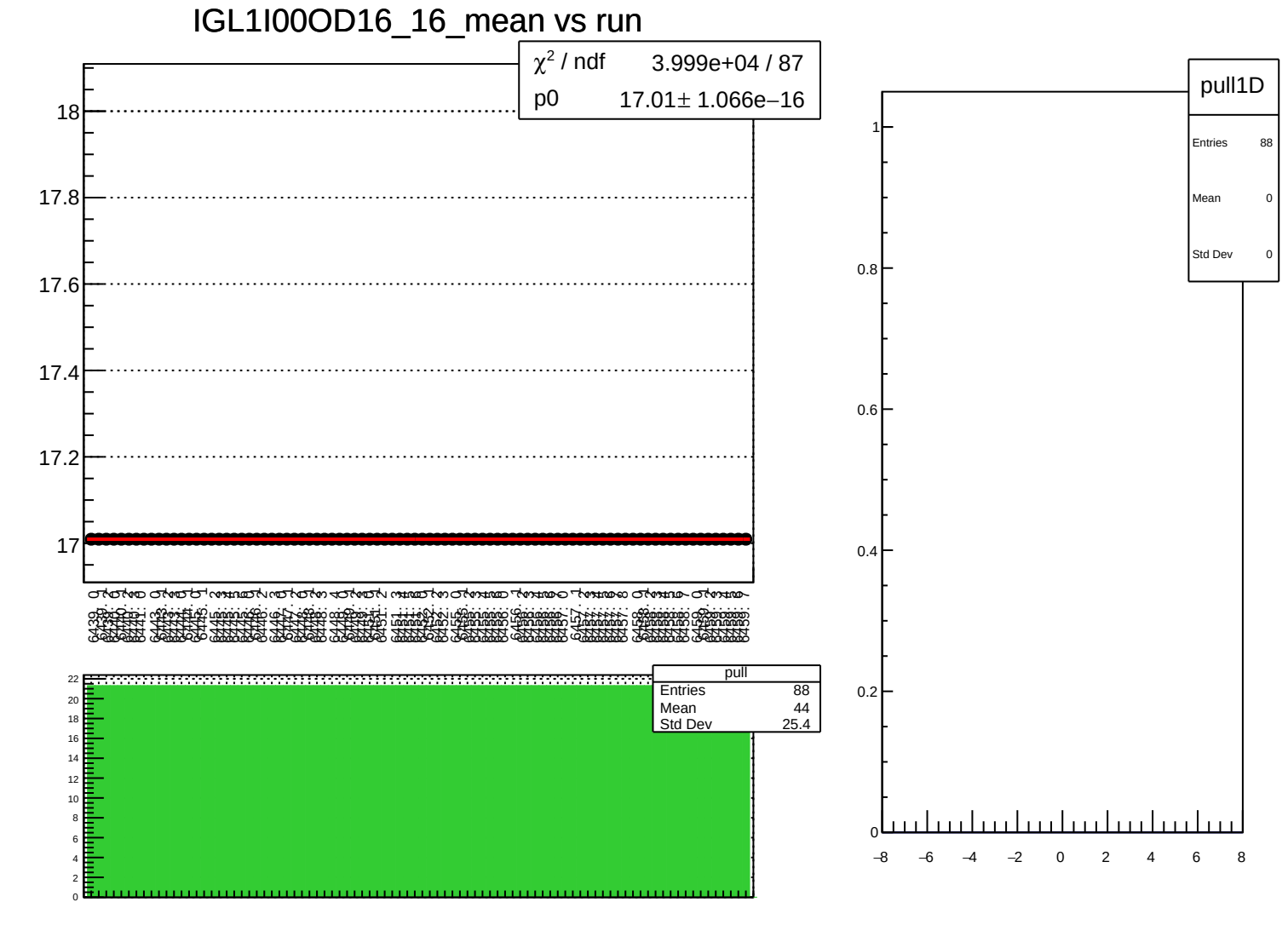

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
9.375
pull
Entries 88
Mean 44
Std Dev 25.4

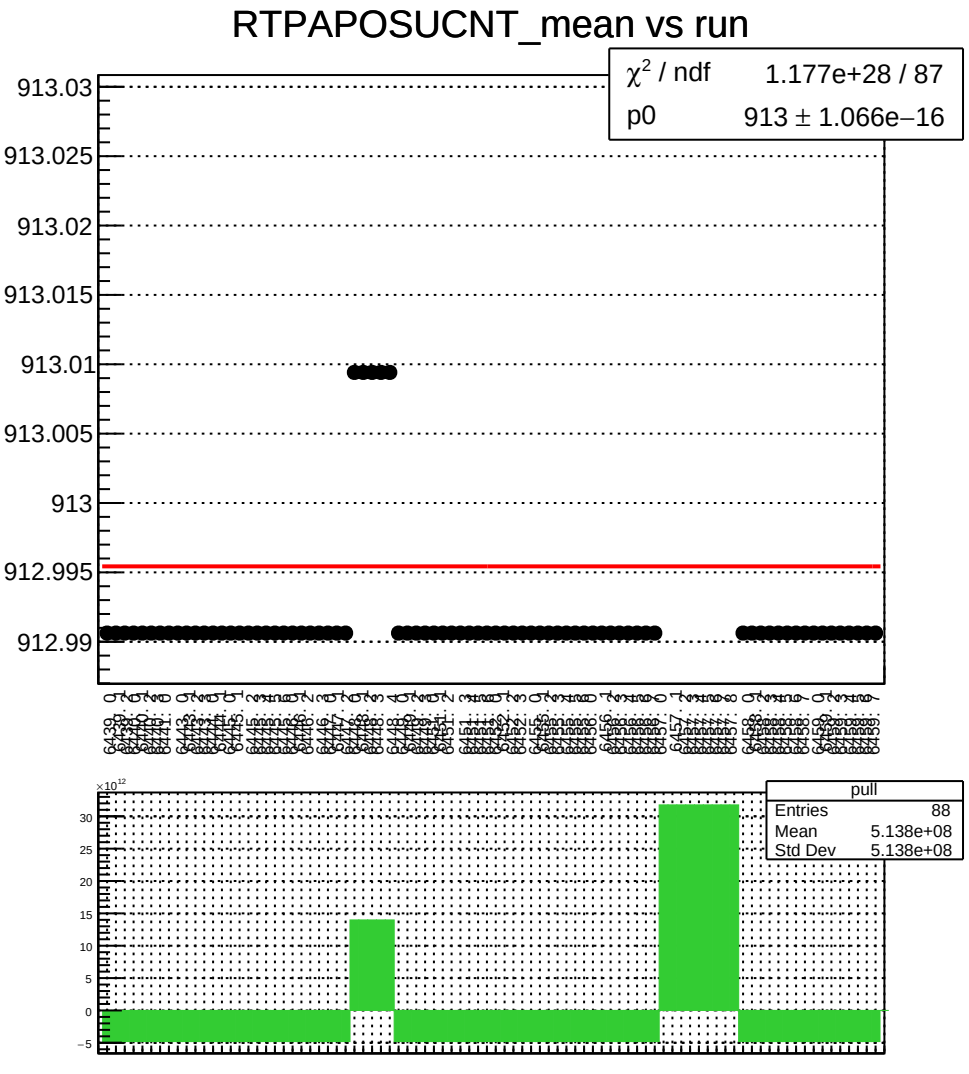

pull1D
Entries 88
Mean 0.02255
Std Dev 6.585e−10

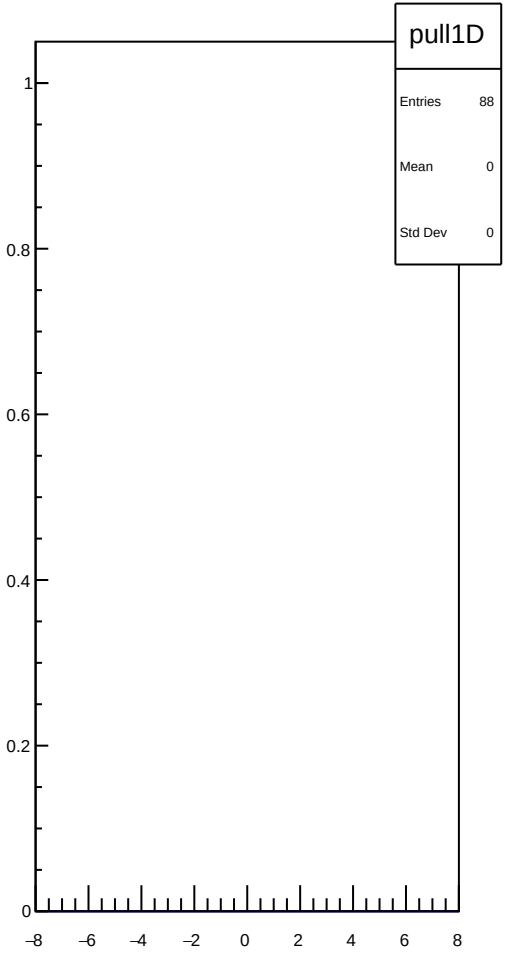

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
×10⁻³
pull
Entries 88
Mean 44
Std Dev 25.4

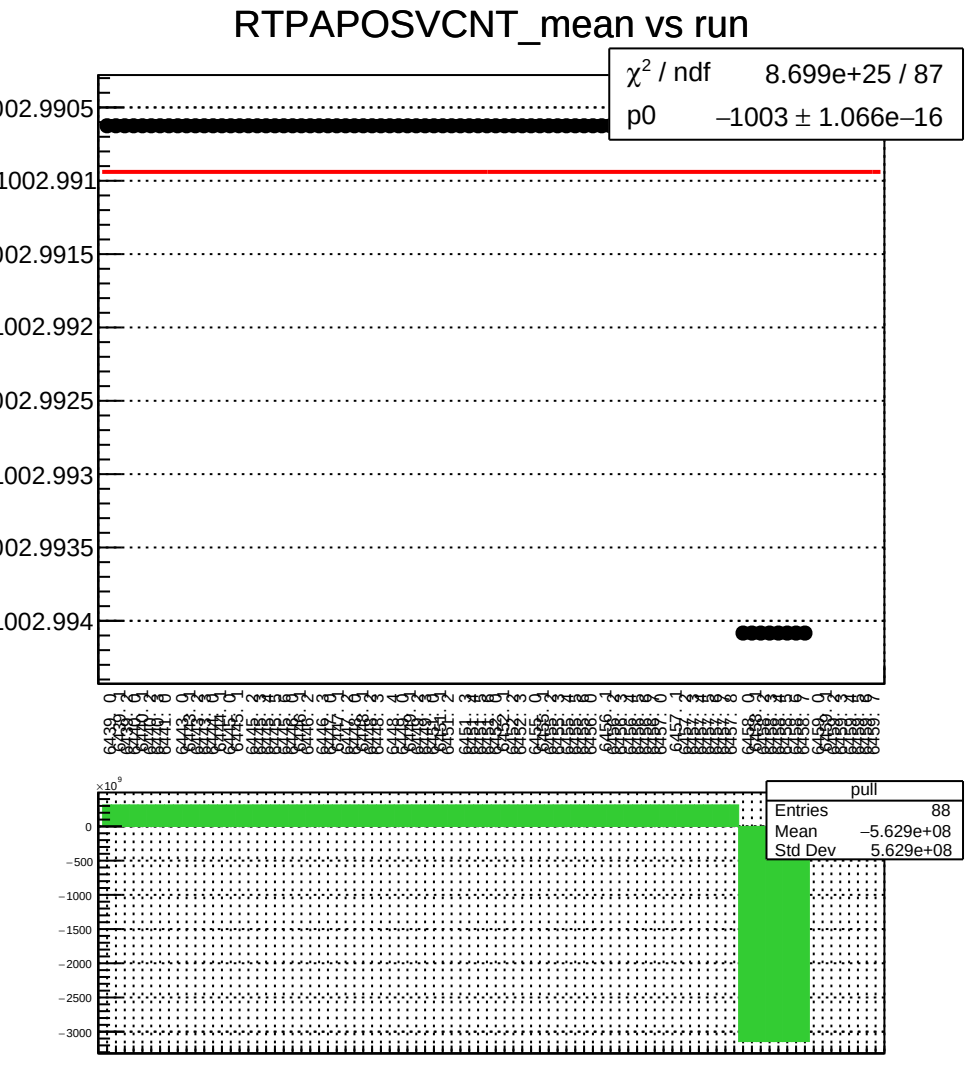

pull1D
Entries 88
Mean 0.02255
Std Dev 6.585e−10

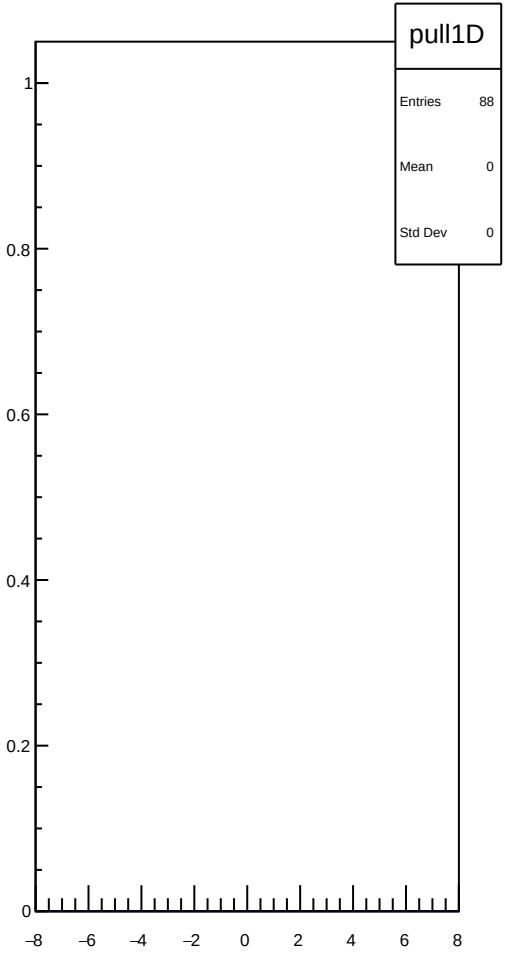

IGL1I00DI24_24M_mean vs run
χ² / ndf 7384 / 64
p0 16.01± 1.24e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 65
Mean 32.5
Std Dev 18.76
0
−2
−4
−6
−8
−10
pull1D
Entries 65
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00OD16_16_mean vs run
χ² / ndf 3.999e+04 / 87
p0 17.01± 1.066e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 88
Mean 44
Std Dev 25.4
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 1.177e+28 / 87
p0 913 ± 1.066e−16
913.03
913.025
913.02
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 88
Mean 5.138e+08
Std Dev 5.138e+08
×10¹²
30
25
20
15
10
5
0
−5


pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 8.699e+25 / 87
p0 −1003 ± 1.066e−16
002.9905
1002.991
002.9915
1002.992
002.9925
1002.993
002.9935
1002.994
pull
Entries 88
Mean −5.629e+08
Std Dev 5.629e+08
×10⁹
0
−500
−1000
−1500
−2000
−2500
−3000


pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8