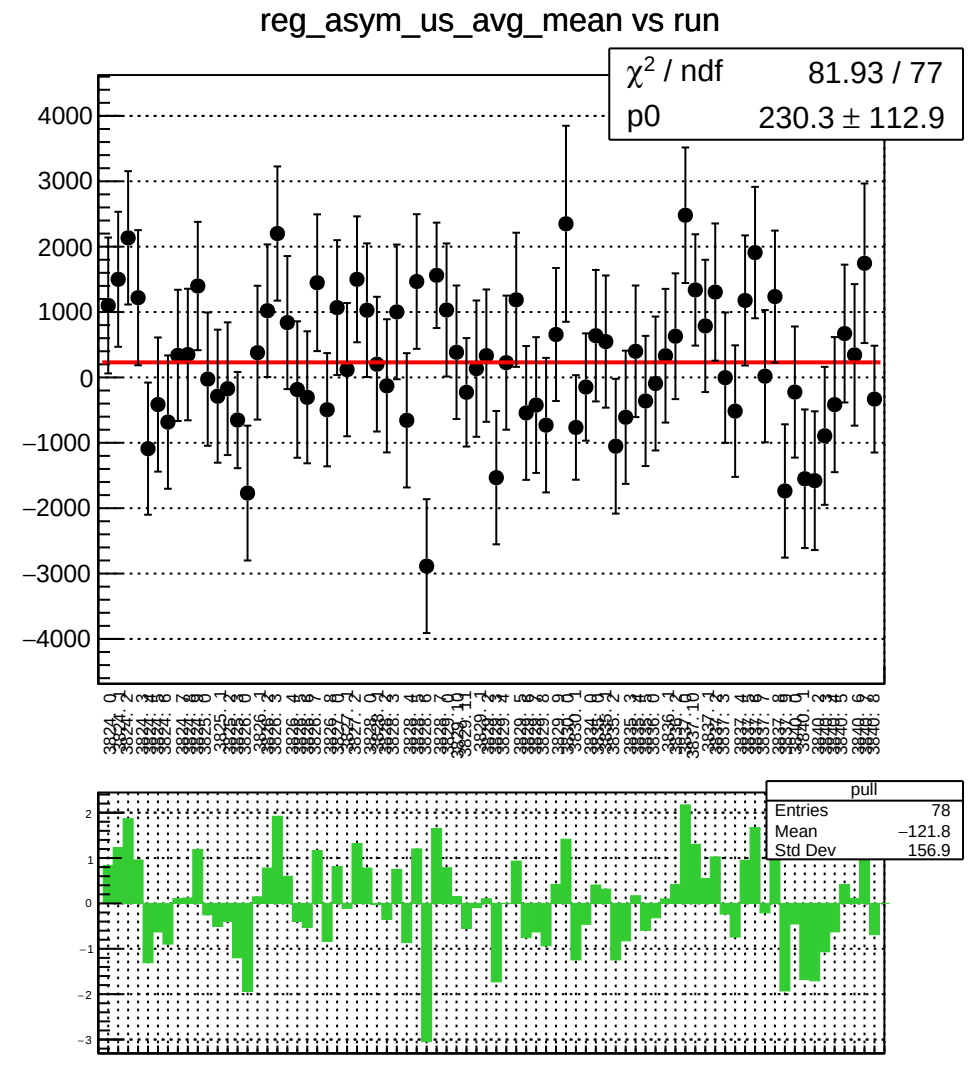
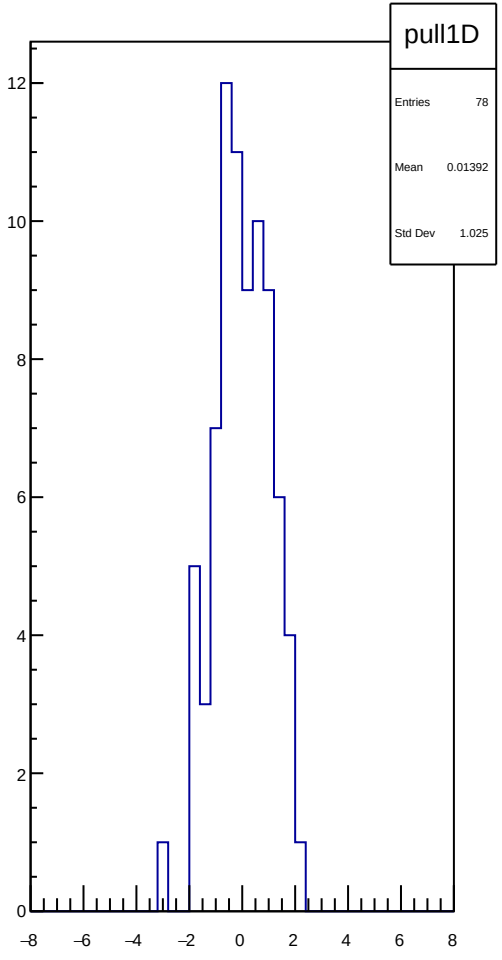
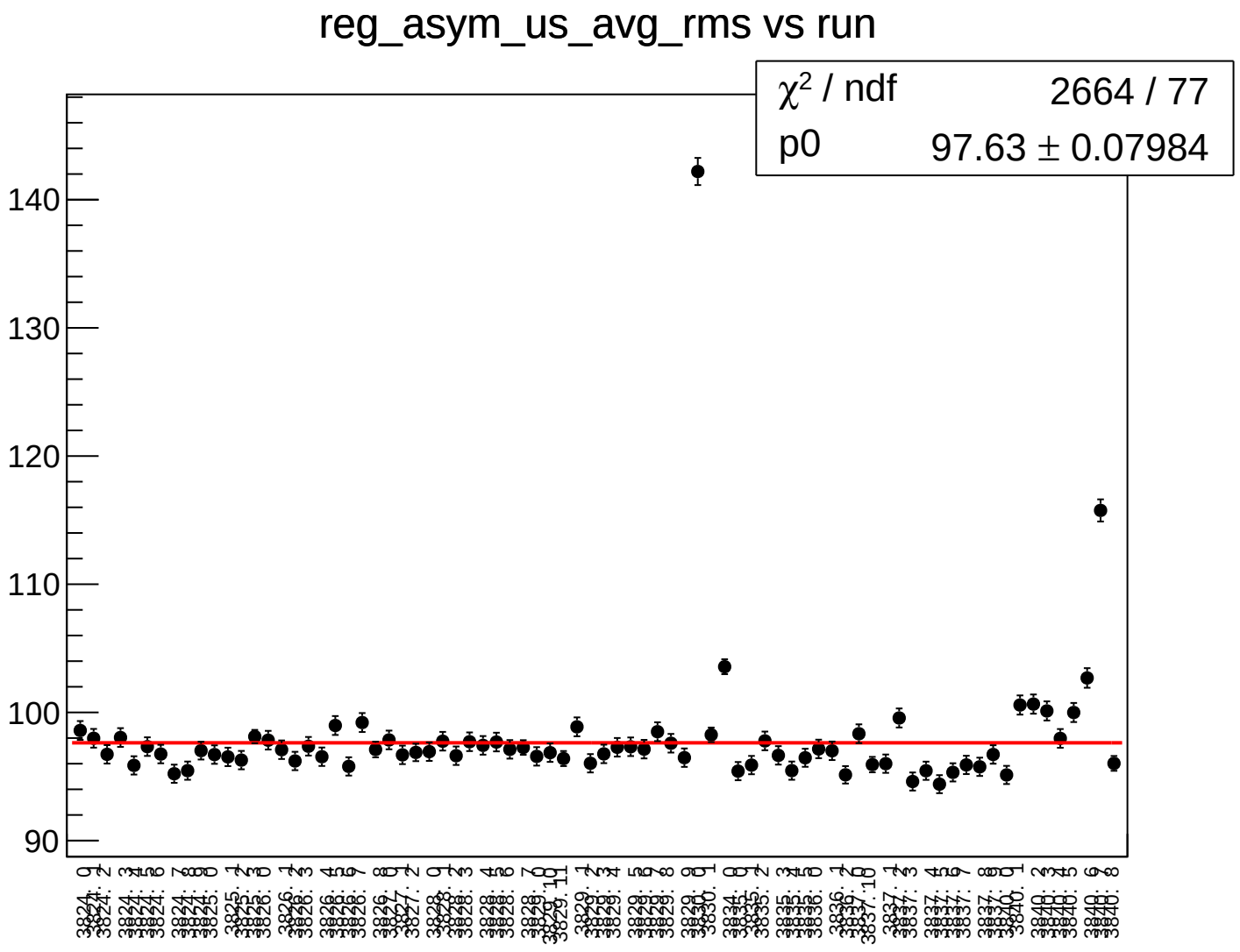
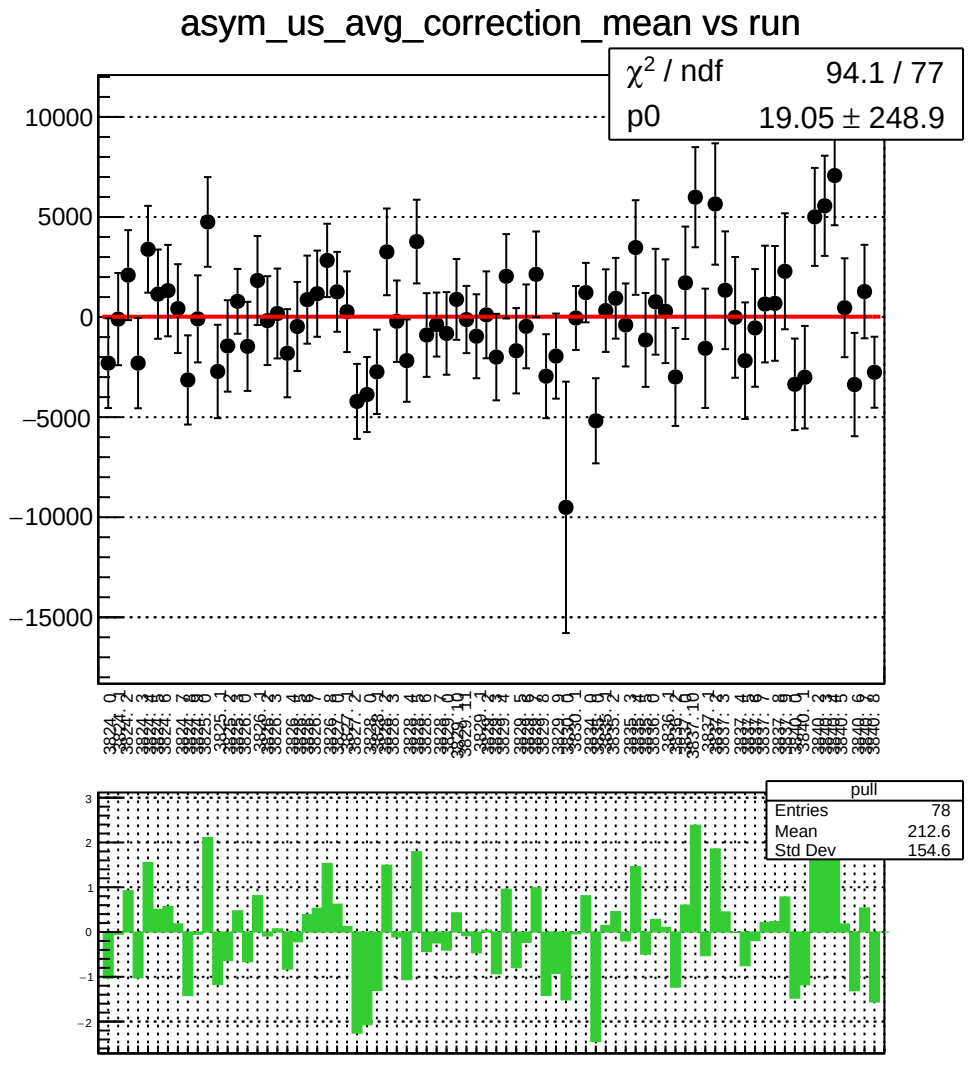
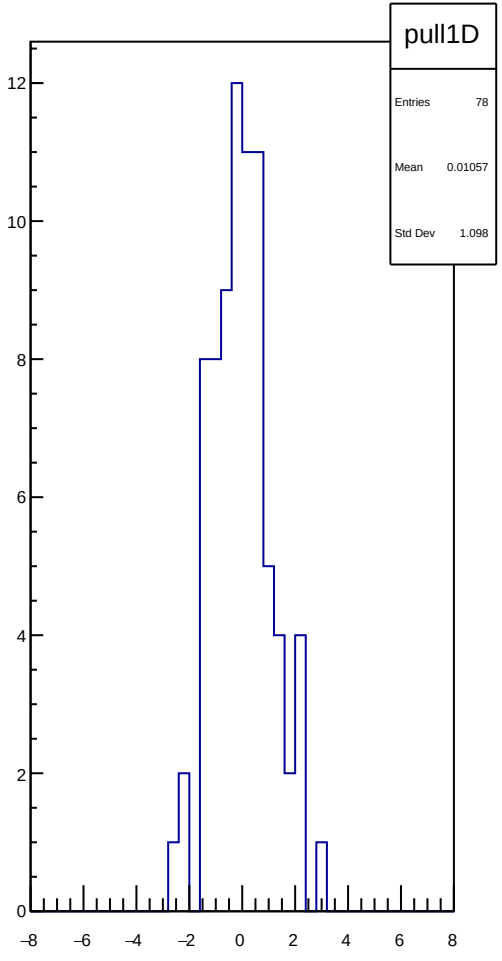
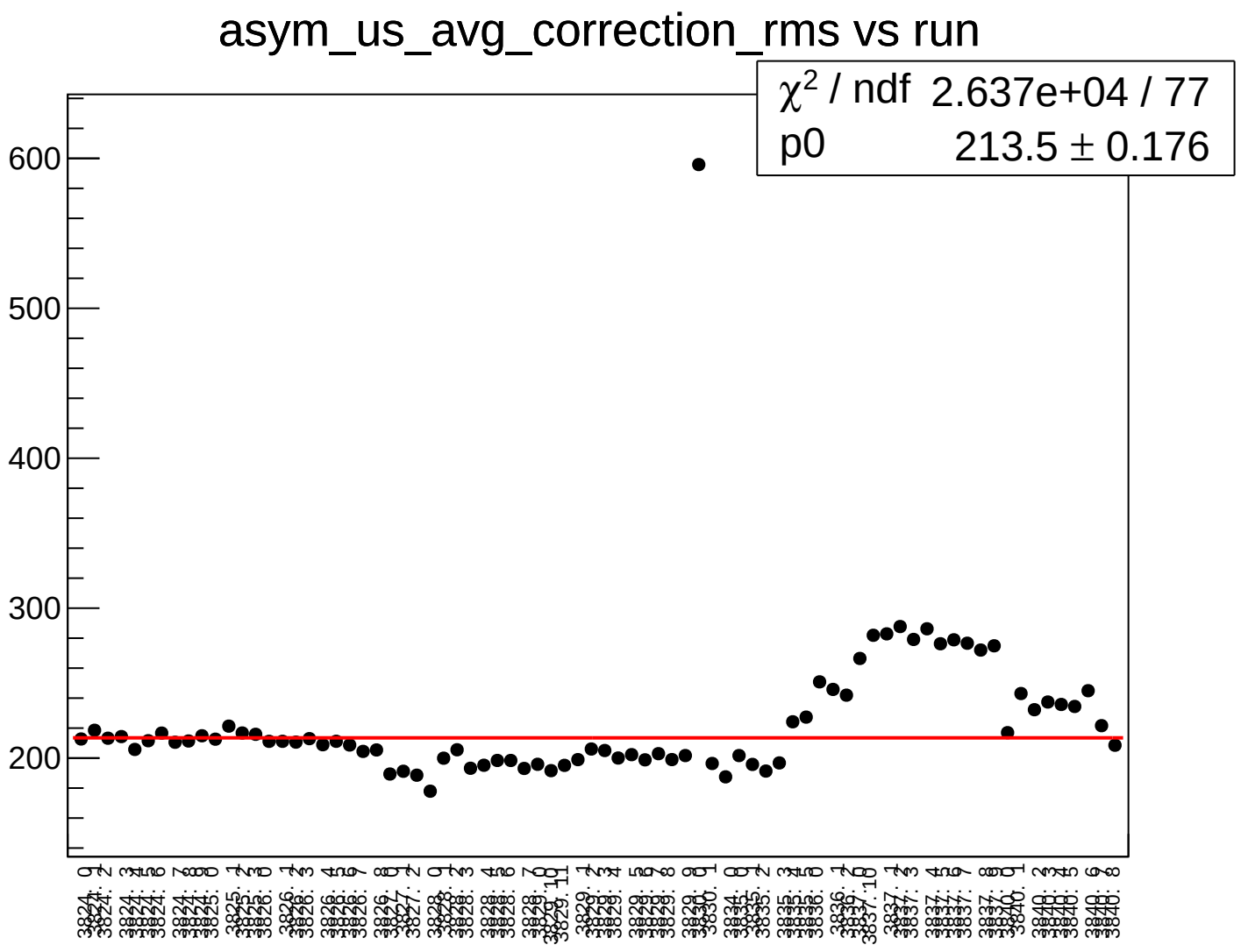

reg_asym_us_avg_mean vs run
χ² / ndf 81.93 / 77
p0 230.3 ± 112.9
pull
Entries 78
Mean −121.8
Std Dev 156.9

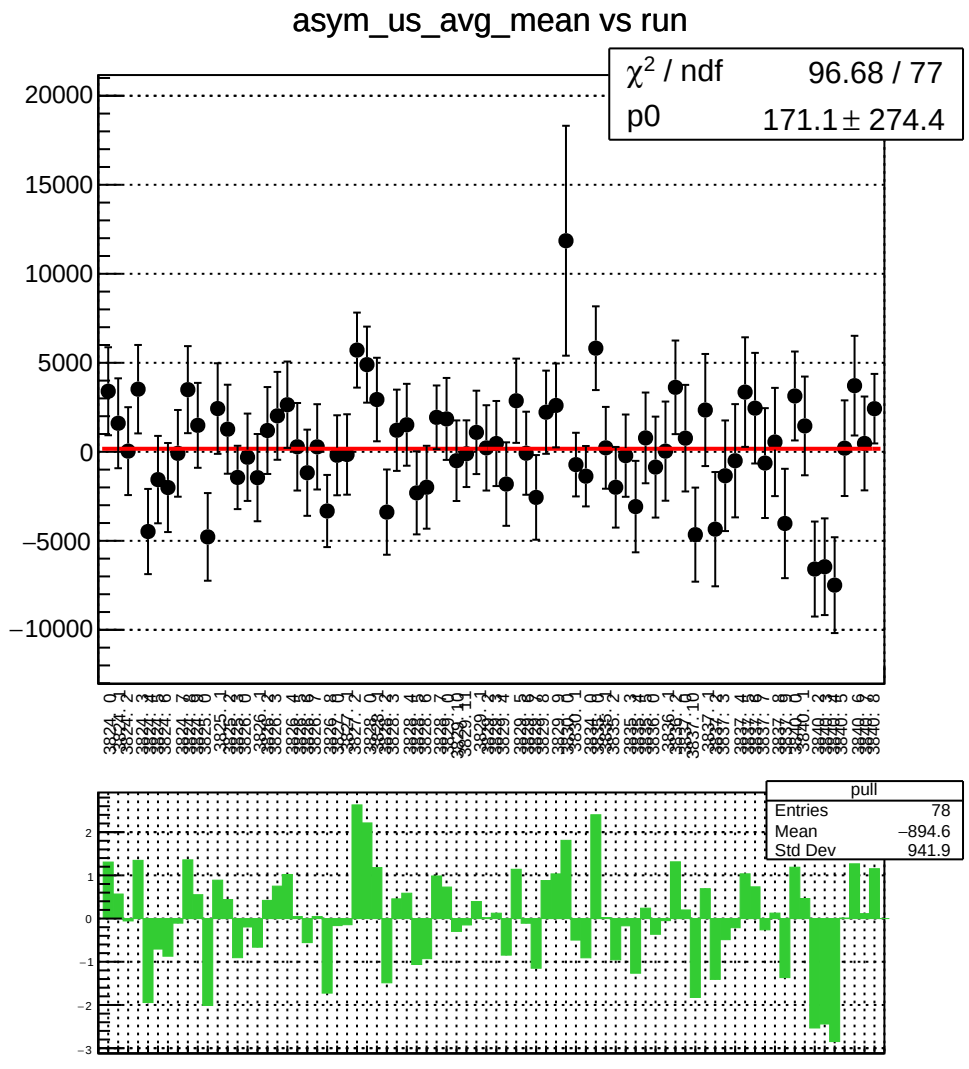

pull1D
Entries 78
Mean 0.01392
Std Dev 1.025

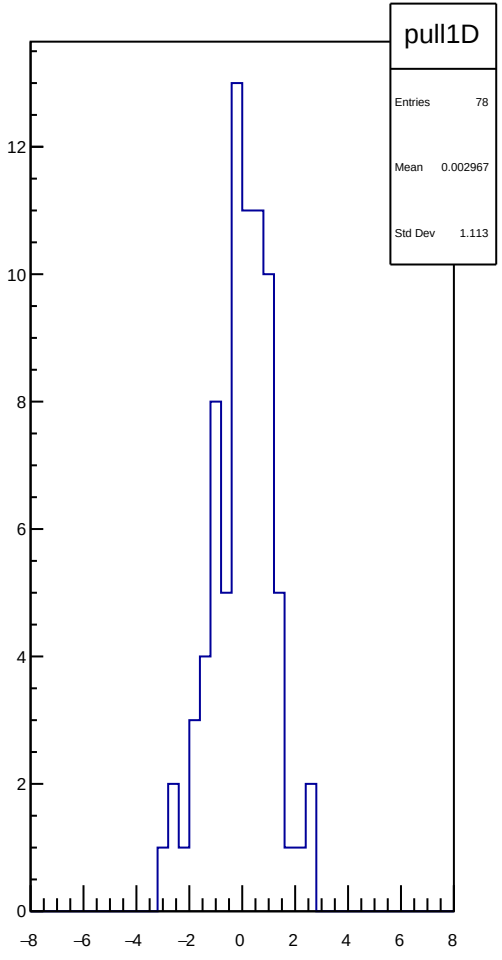

reg_asym_us_avg_rms vs run
χ^2 / ndf 2664 / 77
p0 97.63 ± 0.07984
140
130
120
110
100
90

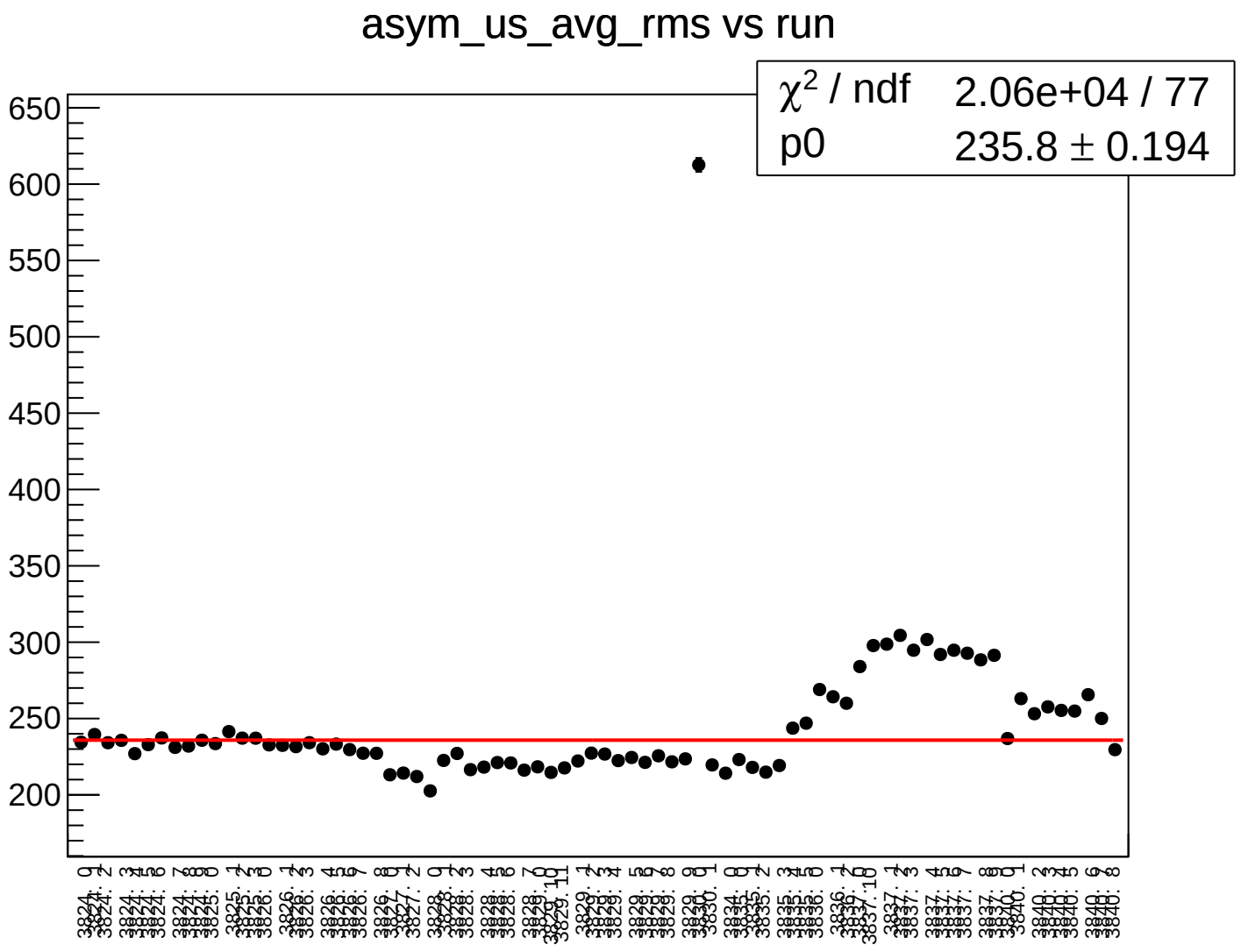

asym_us_avg_correction_mean vs run
χ² / ndf 94.1 / 77
p0 19.05 ± 248.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean 212.6
Std Dev 154.6
3
2
1
0
−1
−2

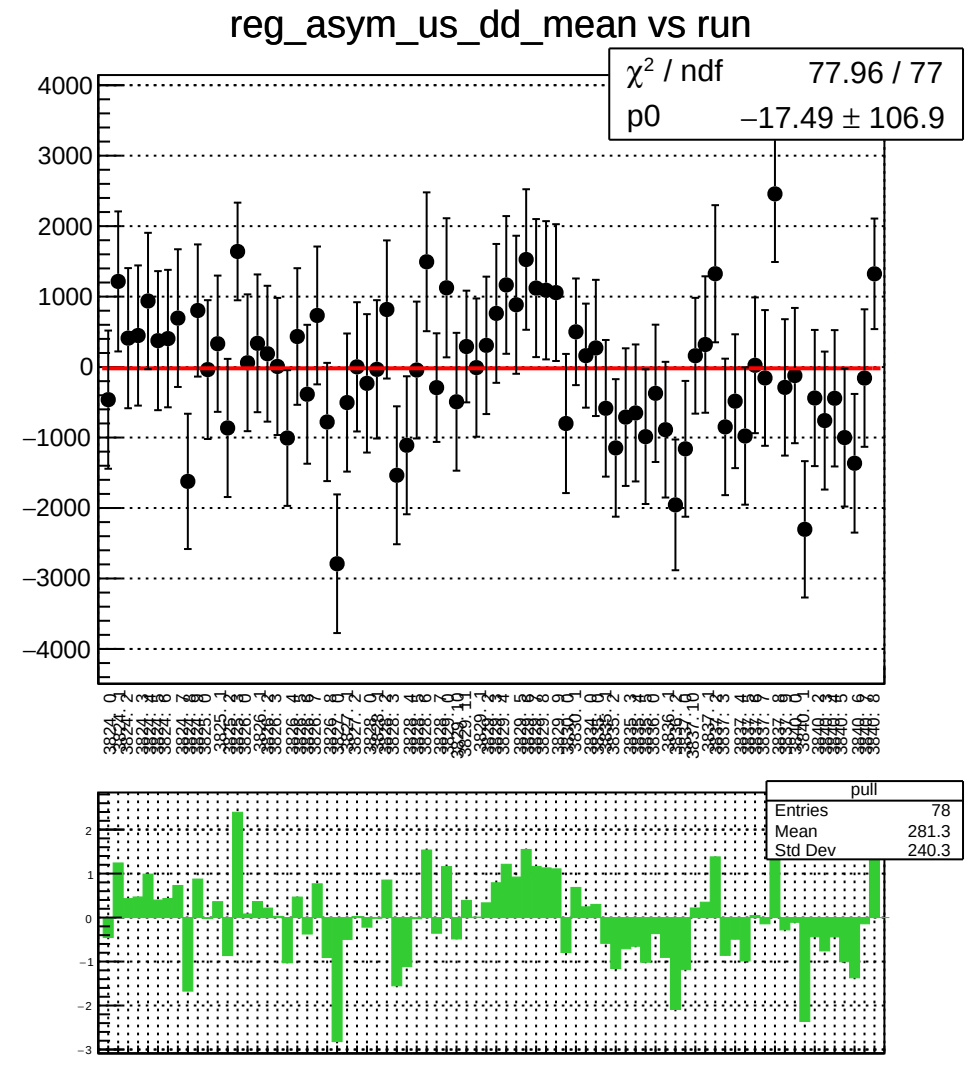

pull1D
Entries 78
Mean 0.01057
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

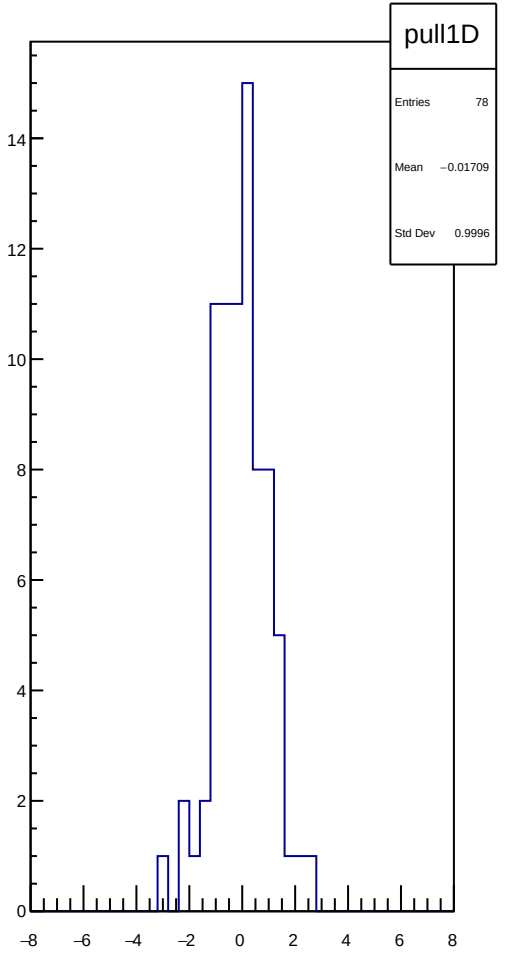

asym_us_avg_correction_rms vs run
χ^2 / ndf 2.637e+04 / 77
p0 213.5 ± 0.176
600
500
400
300
200

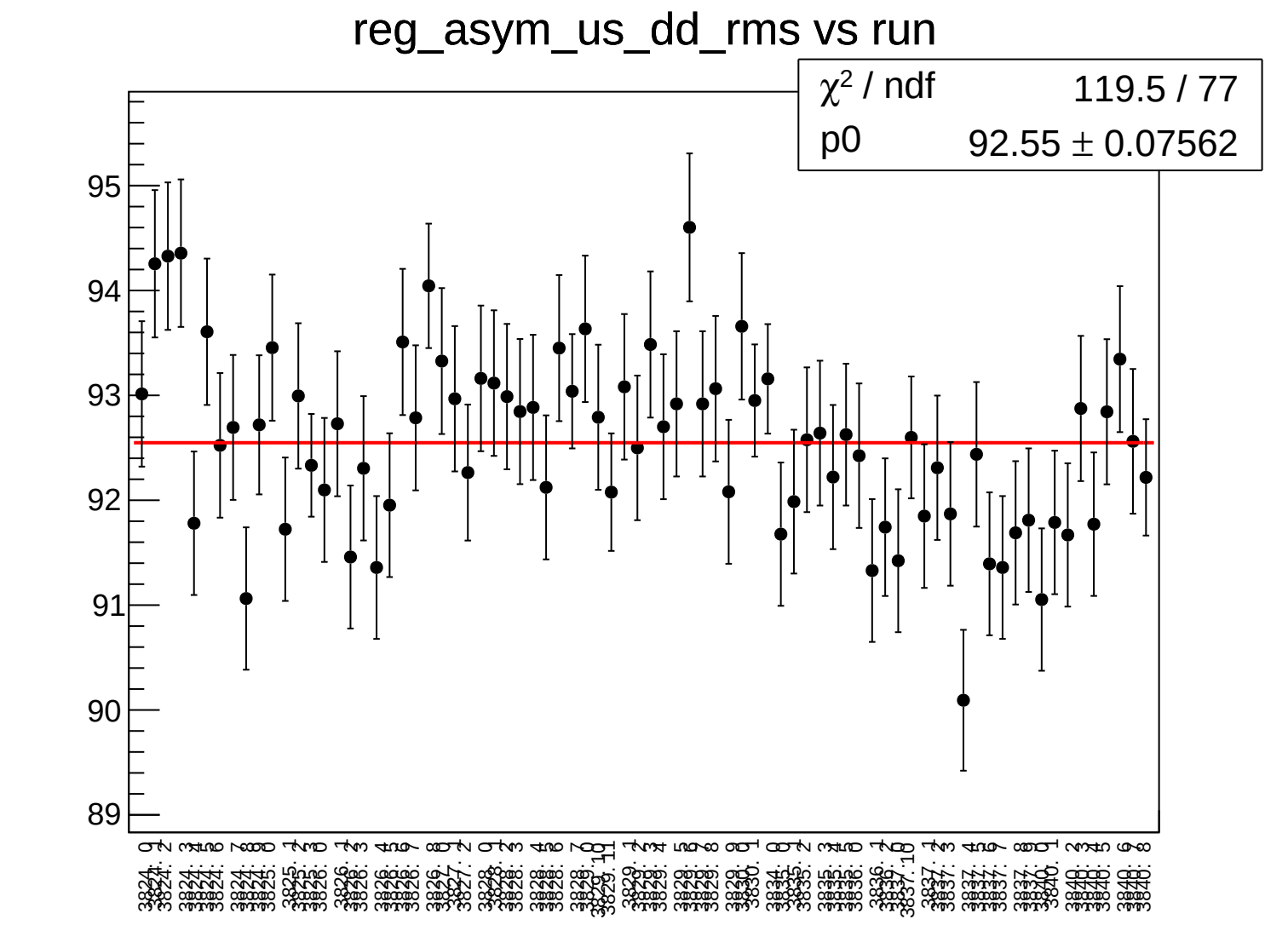

asym_us_avg_mean vs run
χ² / ndf 96.68 / 77
p0 171.1 ± 274.4
pull
Entries 78
Mean −894.6
Std Dev 941.9

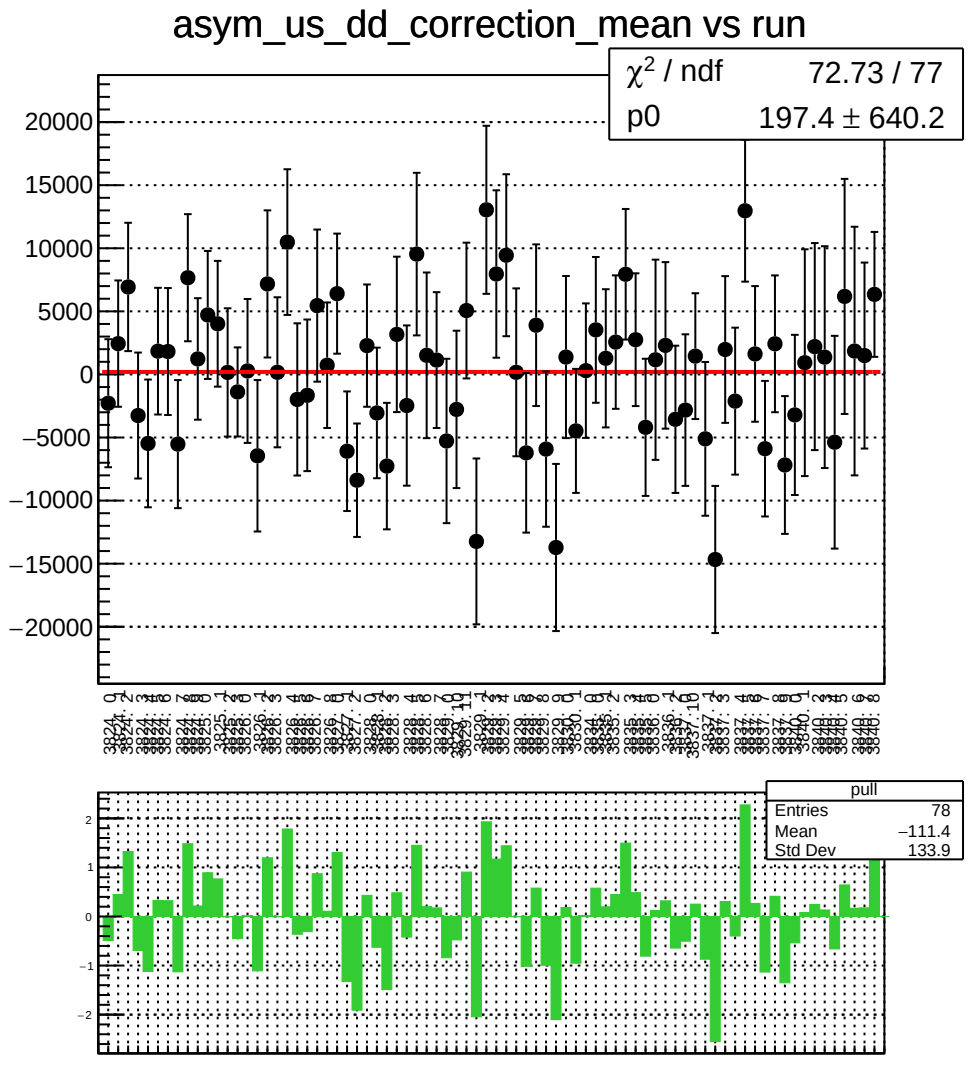

pull1D
Entries 78
Mean 0.002967
Std Dev 1.113

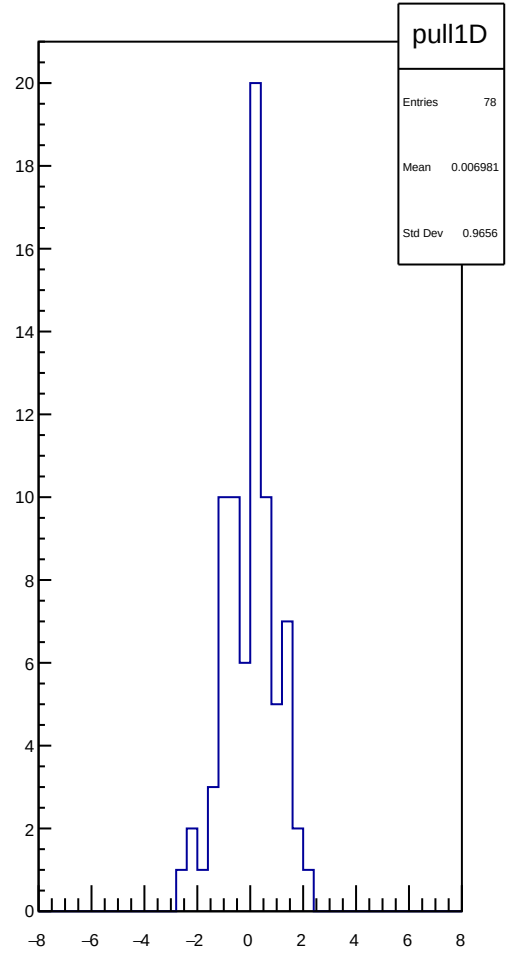

asym_us_avg_rms vs run
χ² / ndf 2.06e+04 / 77
p0 235.8 ± 0.194
650
600
550
500
450
400
350
300
250
200

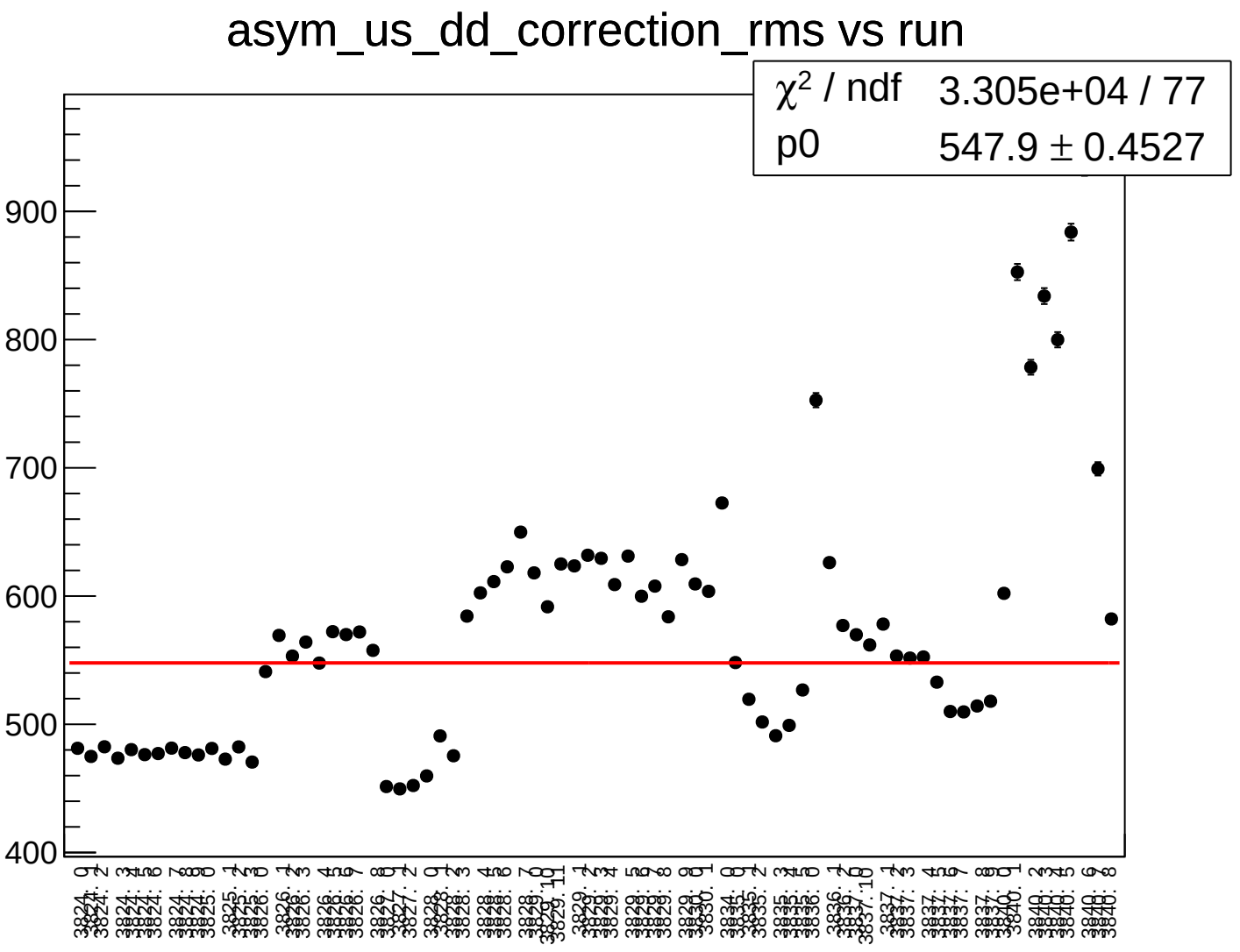

reg_asym_us_dd_mean vs run
χ² / ndf 77.96 / 77
p0 −17.49 ± 106.9
pull
Entries 78
Mean 281.3
Std Dev 240.3

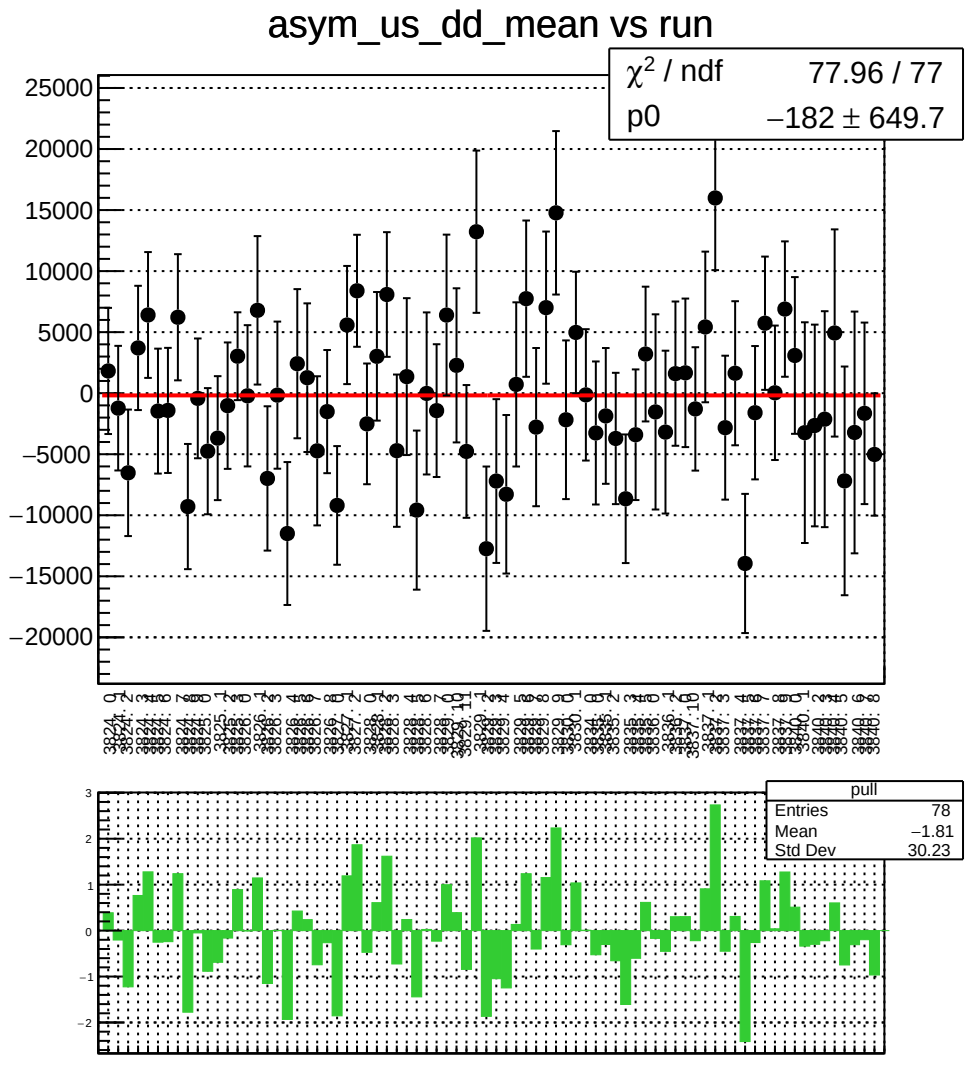

pull1D
Entries 78
Mean −0.01709
Std Dev 0.9996

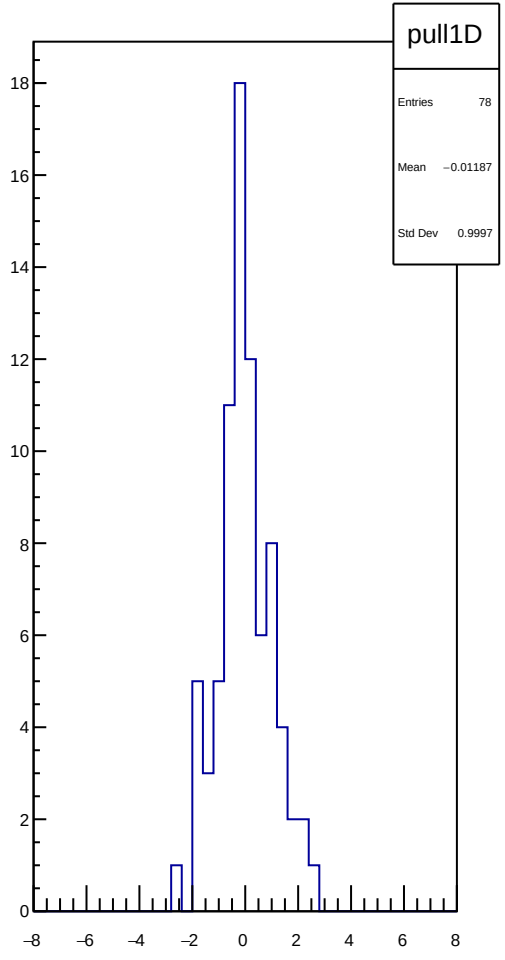

reg_asym_us_dd_rms vs run
χ^2 / ndf 119.5 / 77
p0 92.55 ± 0.07562
95
94
93
92
91
90
89

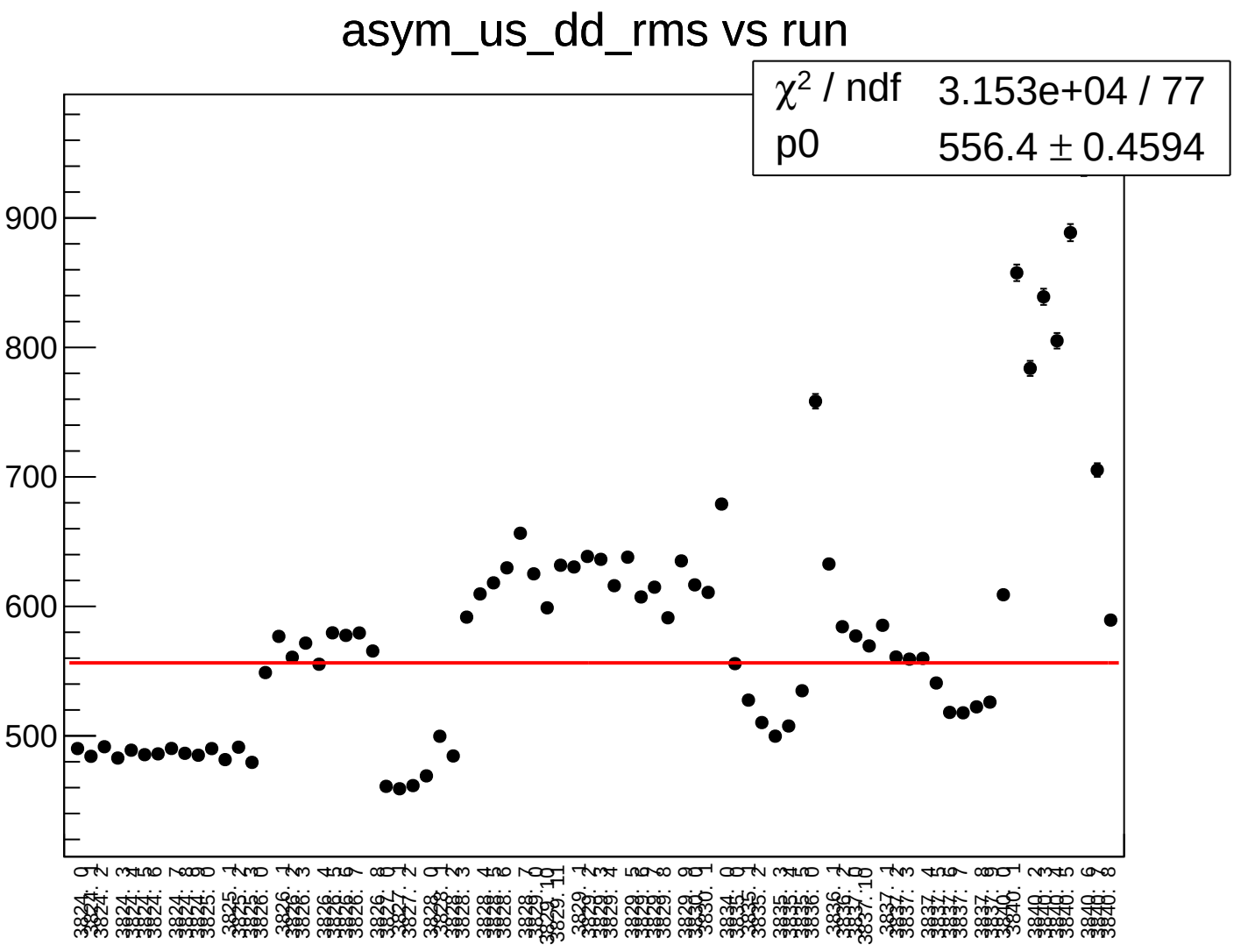

asym_us_dd_correction_mean vs run
χ² / ndf 72.73 / 77
p0 197.4 ± 640.2
pull
Entries 78
Mean −111.4
Std Dev 133.9

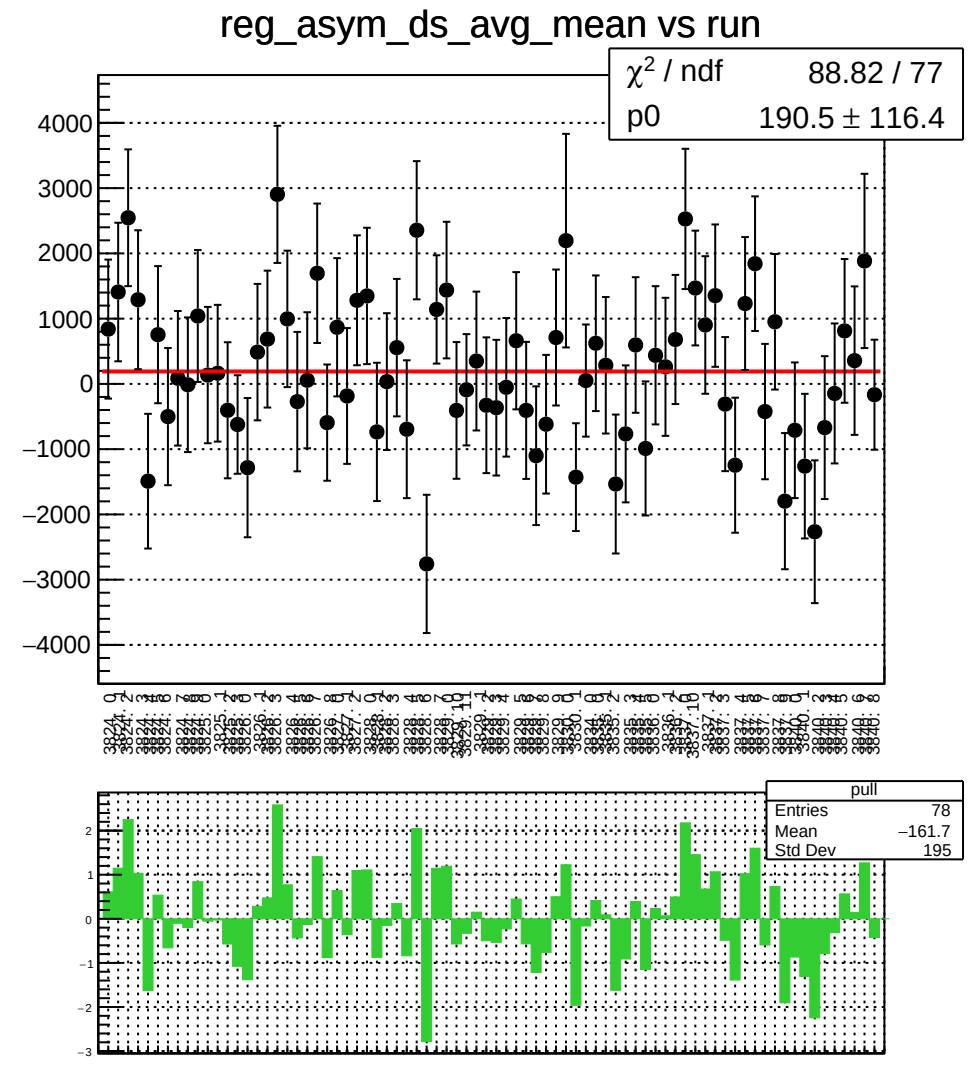

pull1D
Entries 78
Mean 0.006981
Std Dev 0.9656

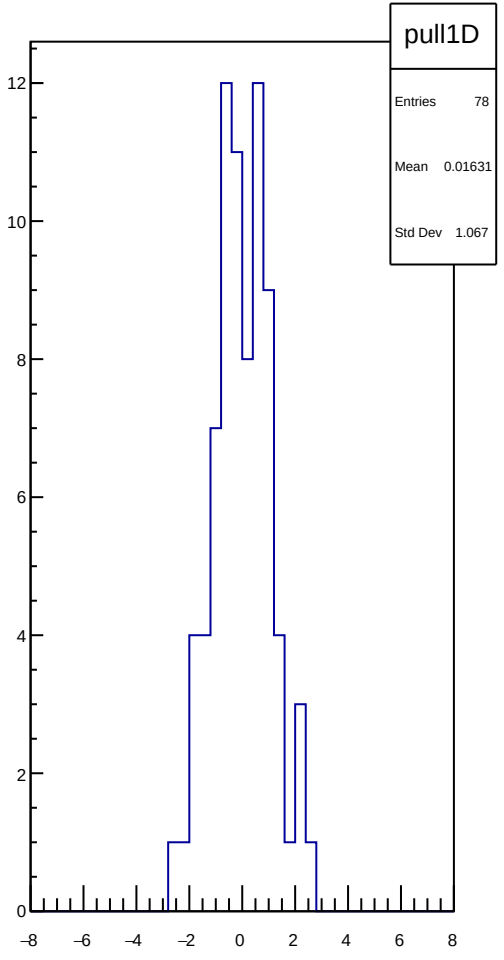

asym_us_dd_correction_rms vs run
χ² / ndf 3.305e+04 / 77
p0 547.9 ± 0.4527
900
800
700
600
500
400

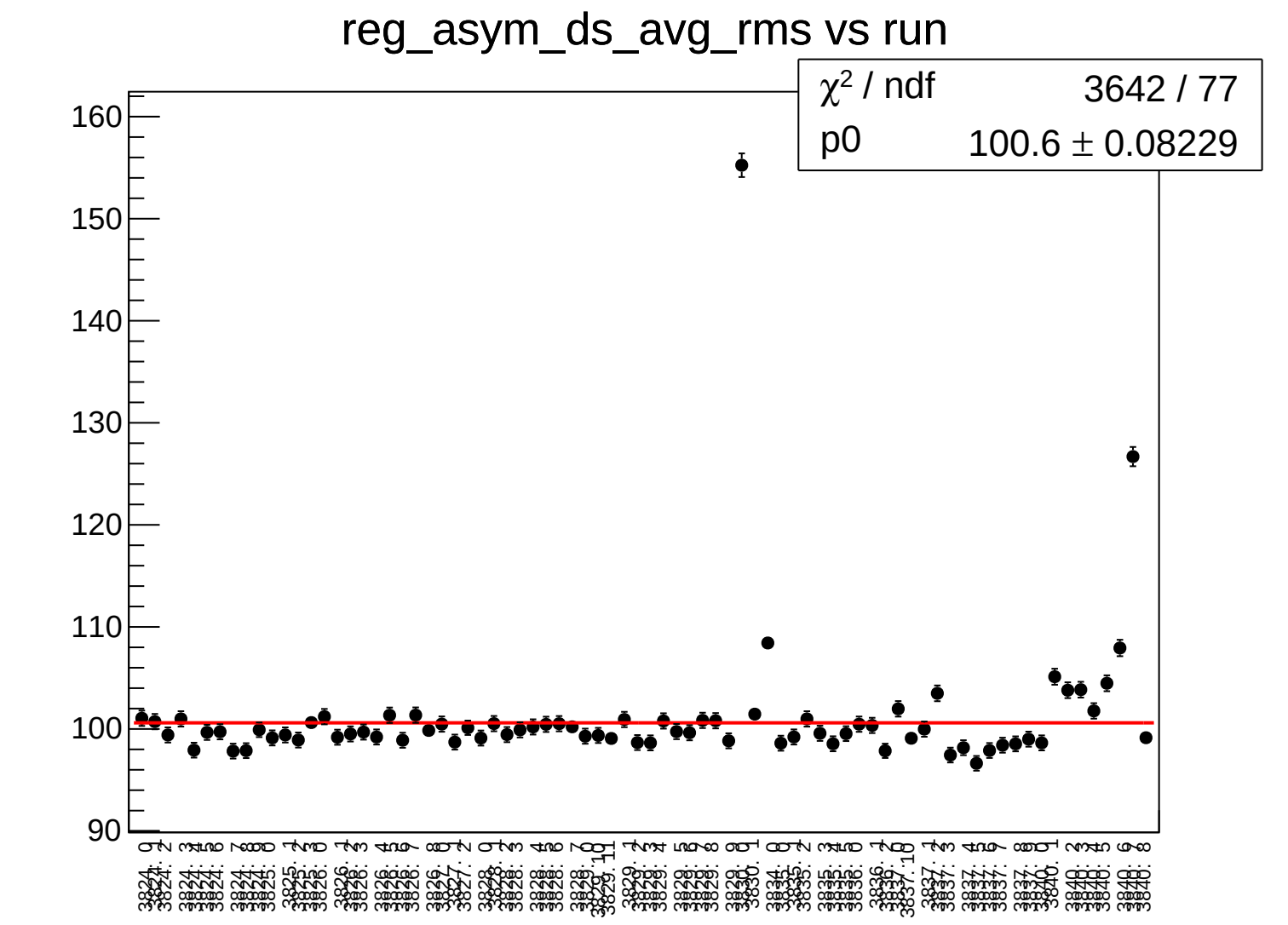

asym_us_dd_mean vs run
χ² / ndf 77.96 / 77
p0 −182 ± 649.7
pull
Entries 78
Mean −1.81
Std Dev 30.23

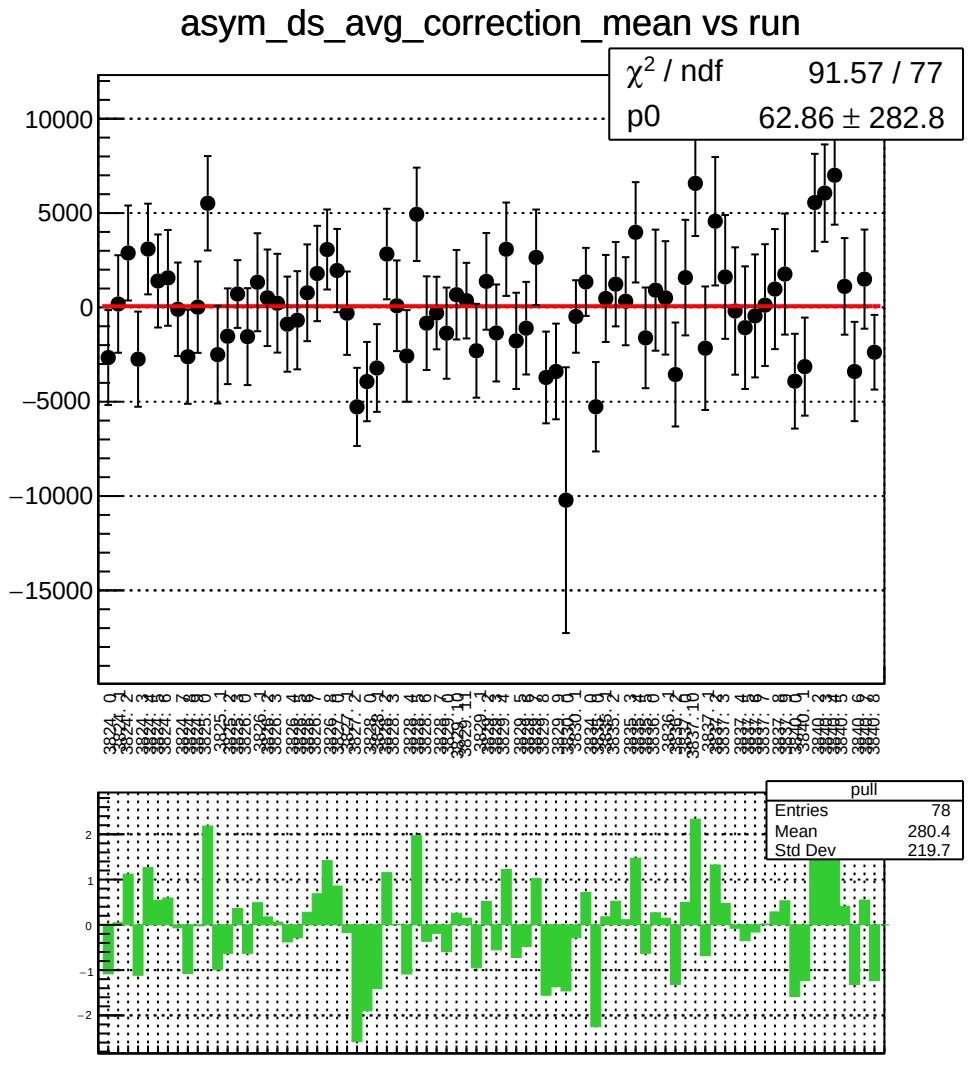

pull1D
Entries 78
Mean −0.01187
Std Dev 0.9997

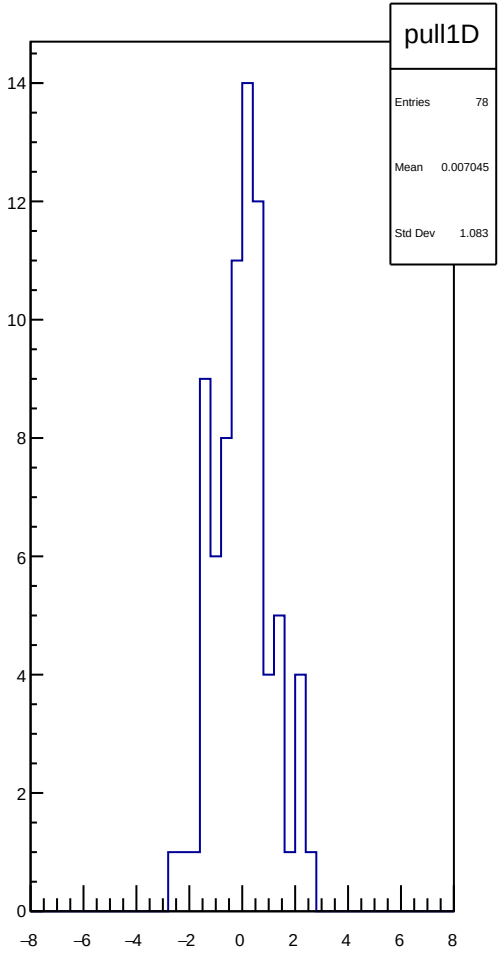

asym_us_dd_rms vs run
χ² / ndf 3.153e+04 / 77
p0 556.4 ± 0.4594
900
800
700
600
500

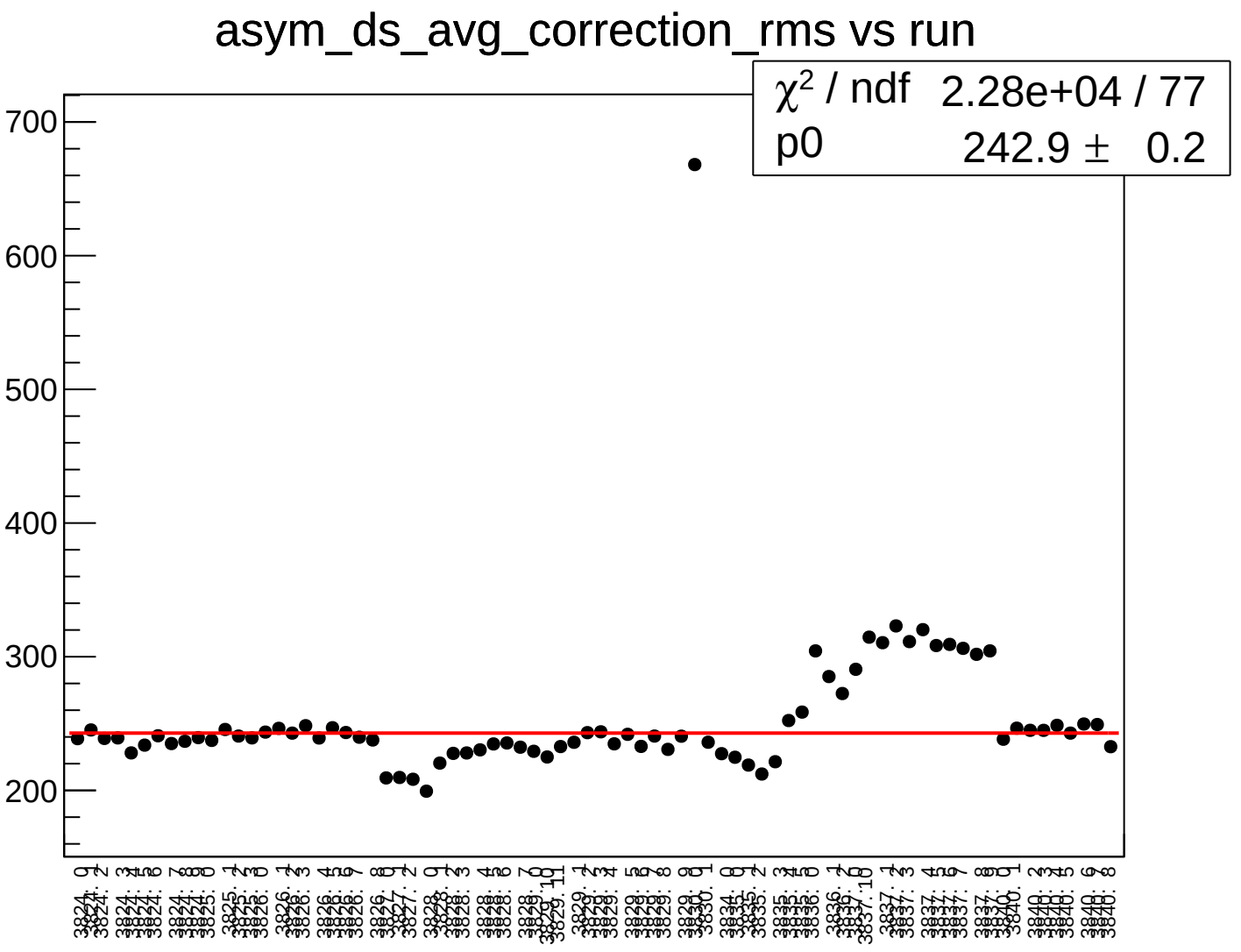

reg_asym_ds_avg_mean vs run
χ² / ndf 88.82 / 77
p0 190.5 ± 116.4
pull
Entries 78
Mean −161.7
Std Dev 195

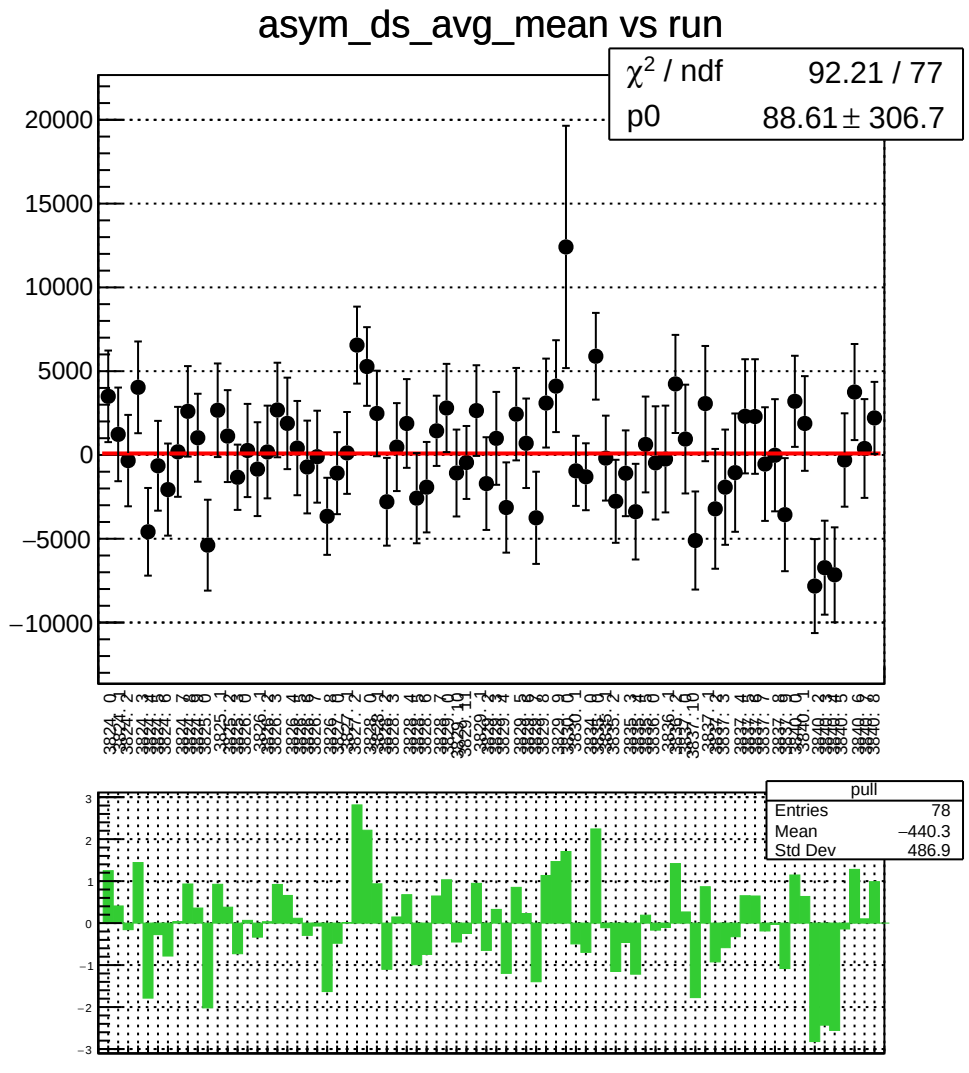

pull1D
Entries 78
Mean 0.01631
Std Dev 1.067

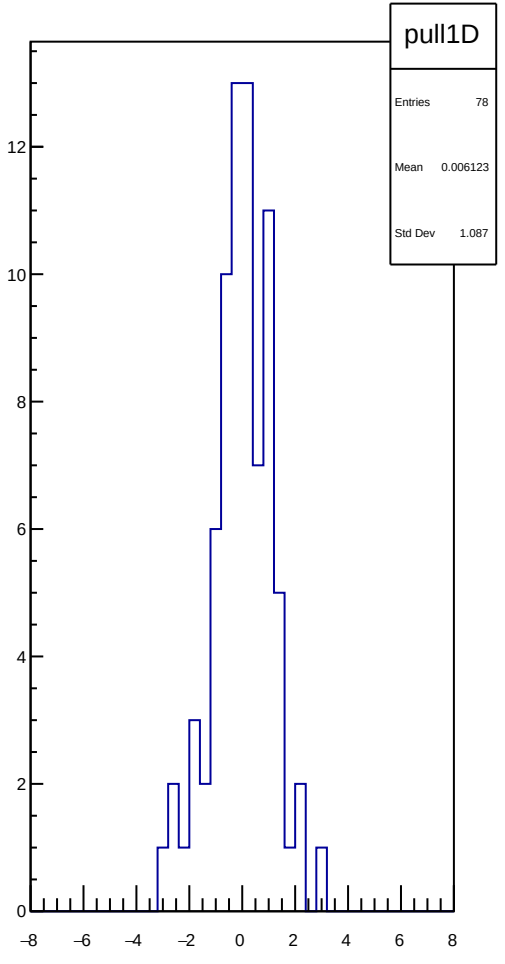

reg_asym_ds_avg_rms vs run
χ^2 / ndf 3642 / 77
p0 100.6 ± 0.08229
160
150
140
130
120
110
100
90

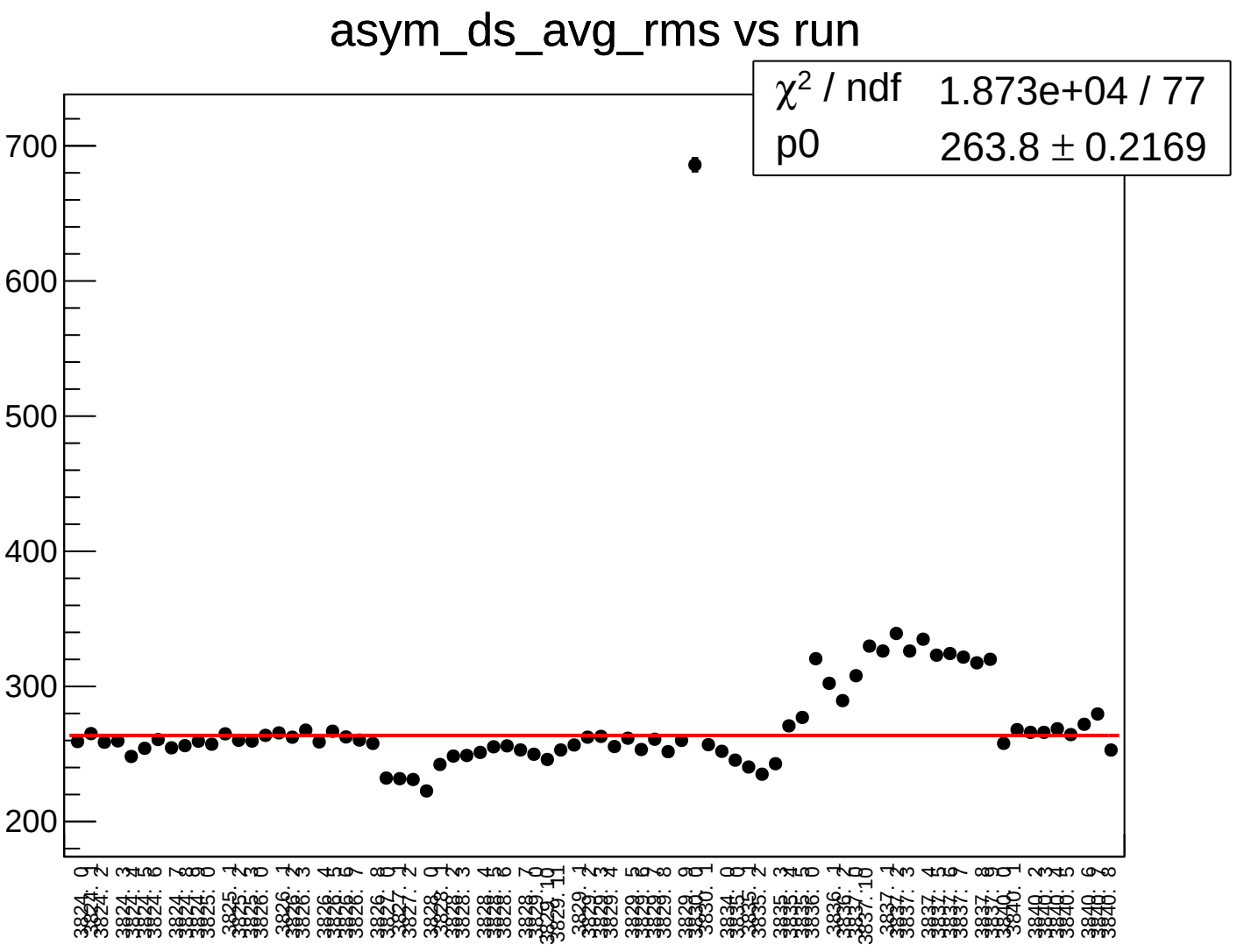

asym_ds_avg_correction_mean vs run
χ² / ndf 91.57 / 77
p0 62.86 ± 282.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean 280.4
Std Dev 219.7
2
1
0
−1
−2

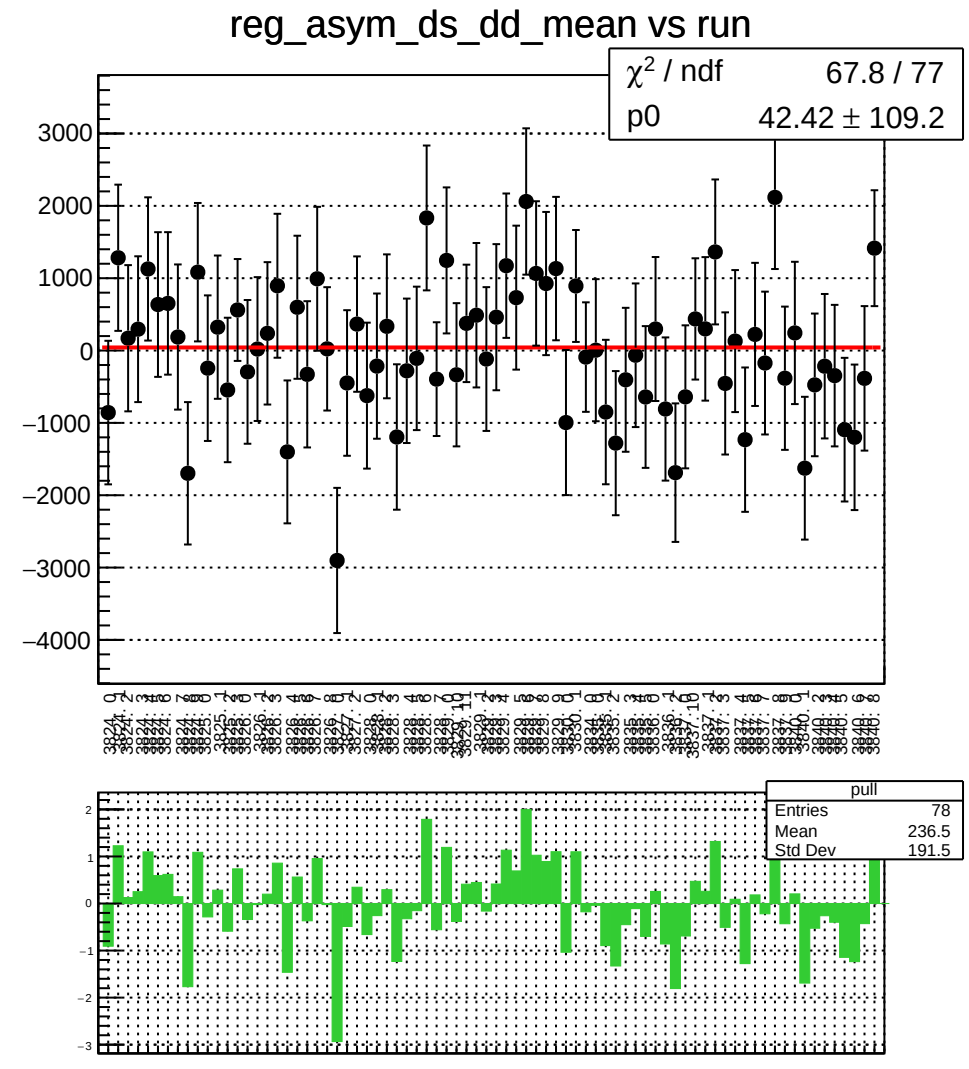

pull1D
Entries 78
Mean 0.007045
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

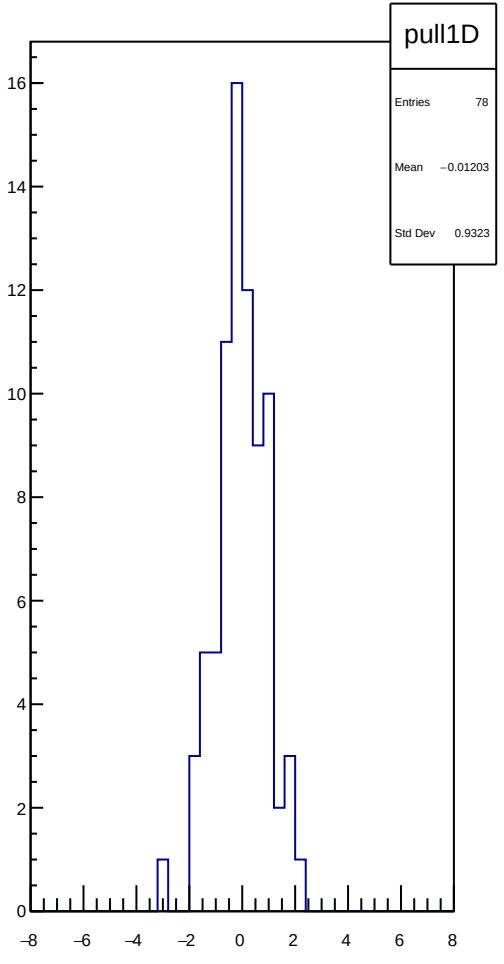

asym_ds_avg_correction_rms vs run
χ² / ndf 2.28e+04 / 77
p0 242.9 ± 0.2
700
600
500
400
300
200

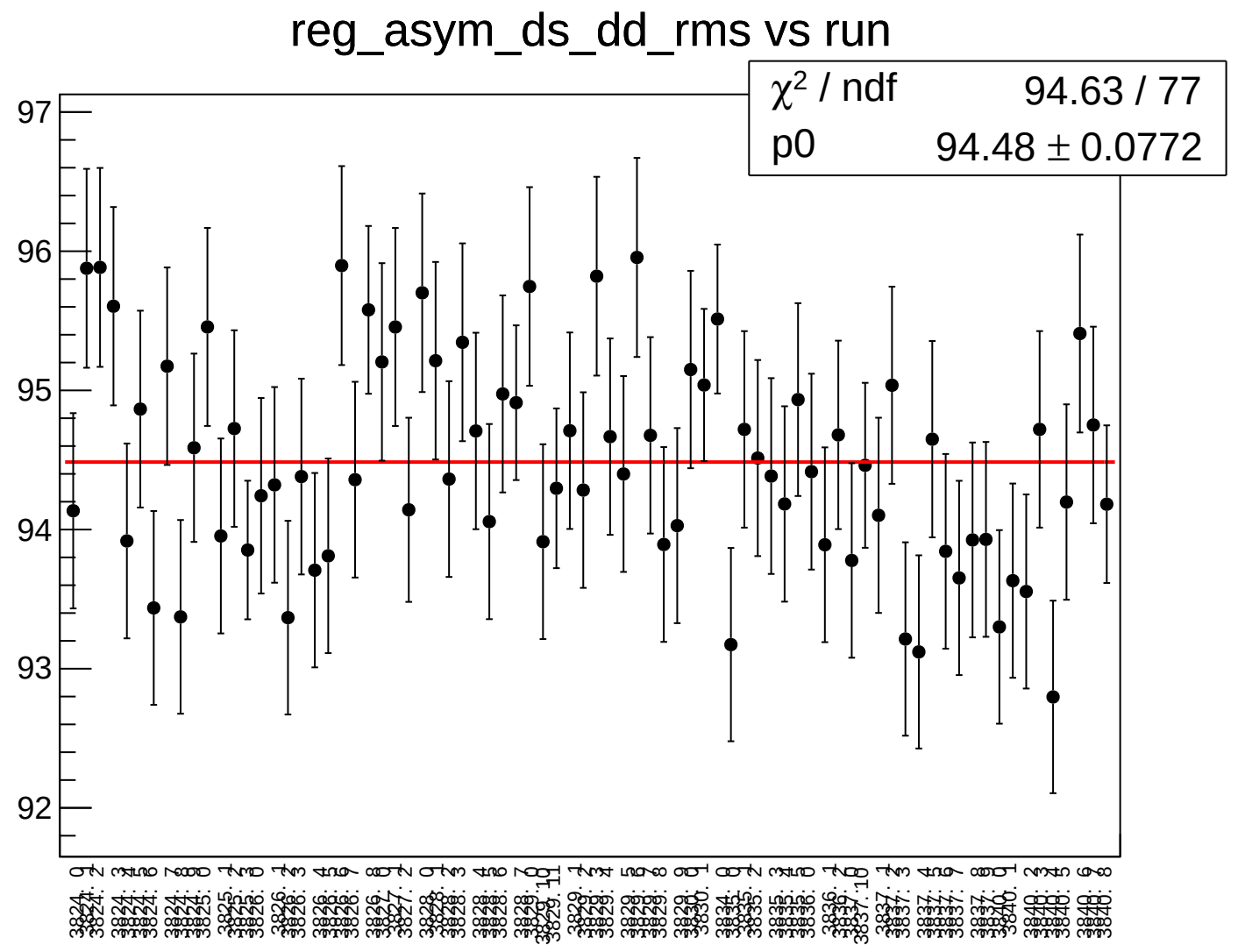

asym_ds_avg_mean vs run
χ² / ndf 92.21 / 77
p0 88.61 ± 306.7
pull
Entries 78
Mean −440.3
Std Dev 486.9

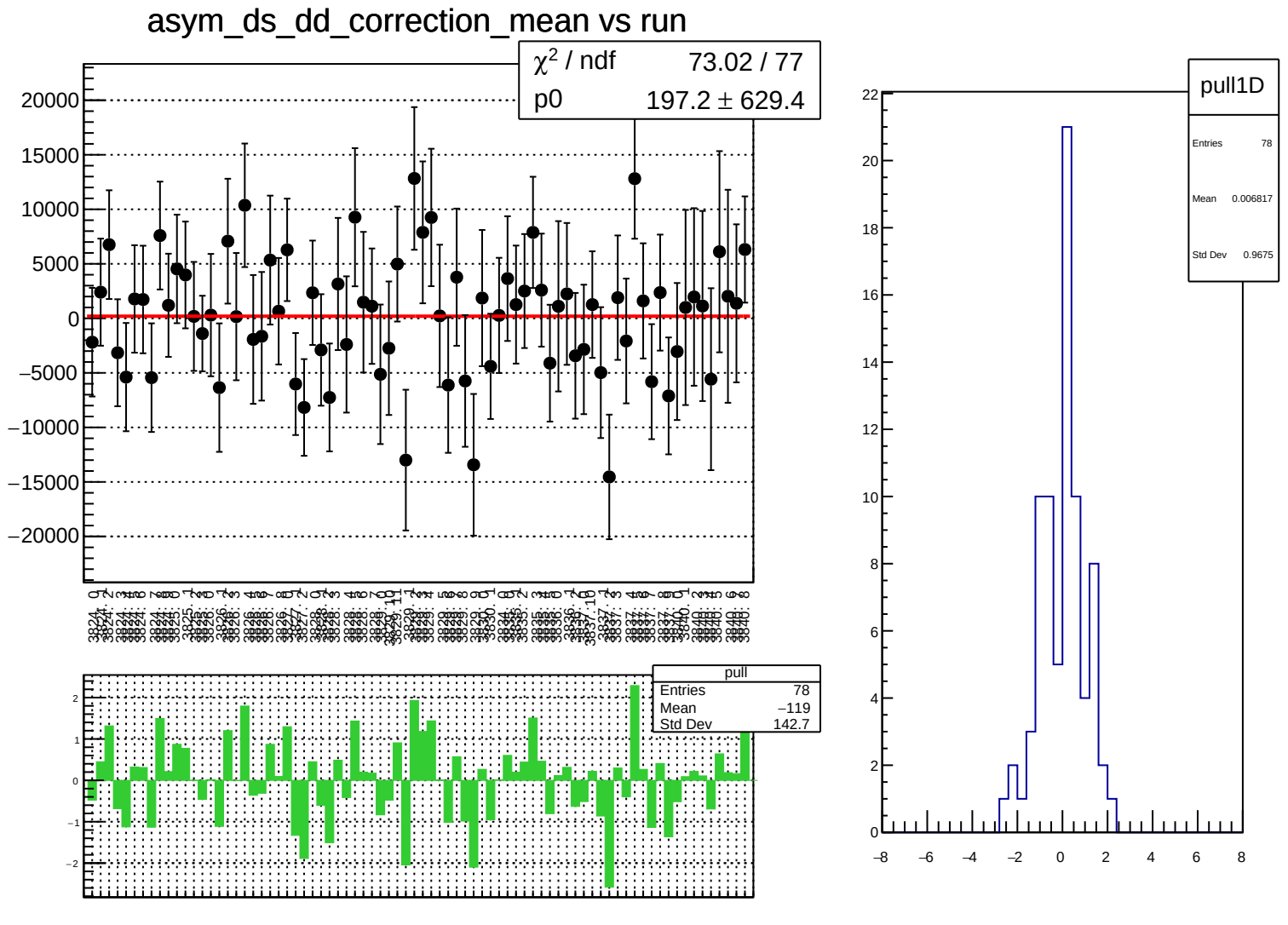

pull1D
Entries 78
Mean 0.006123
Std Dev 1.087

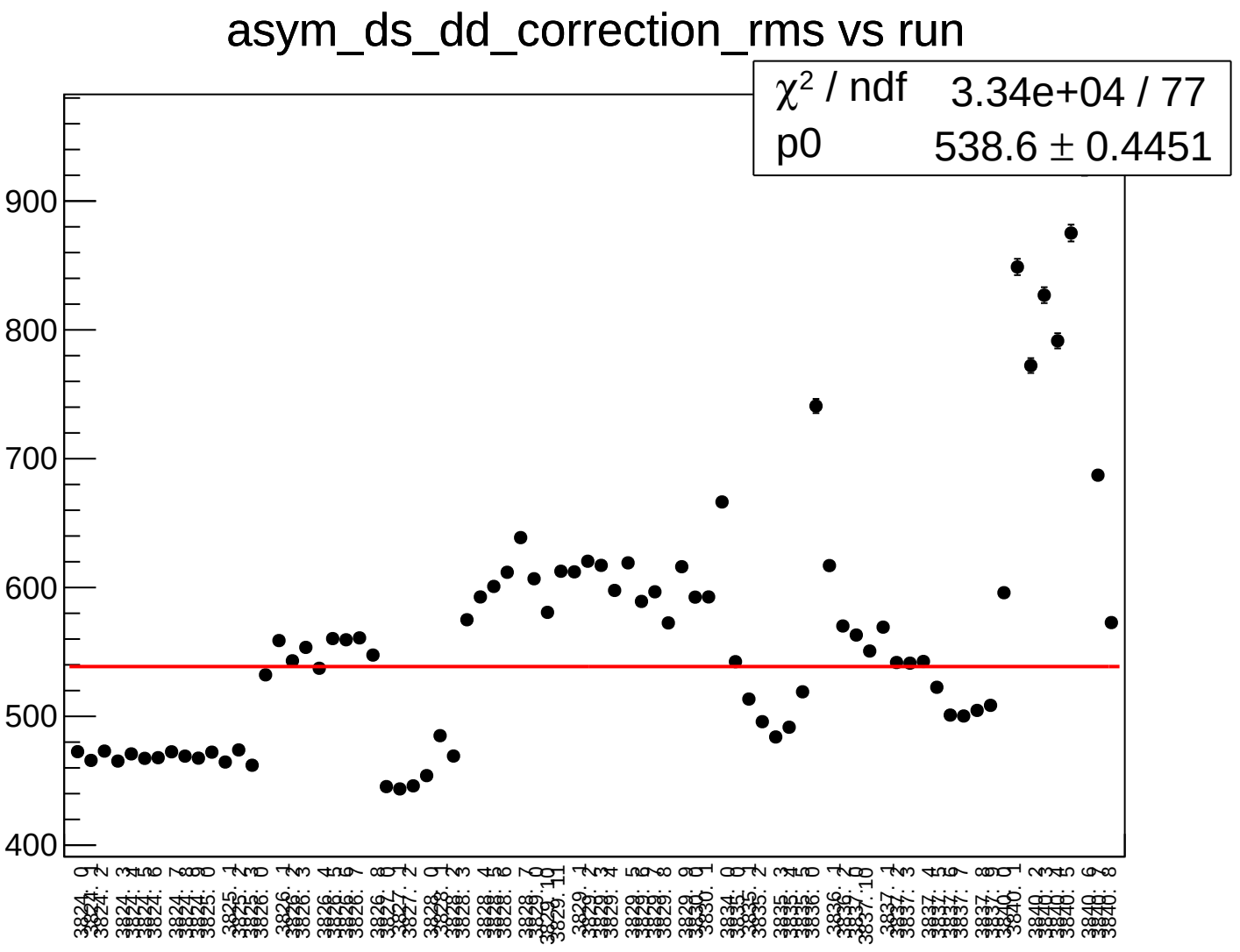

asym_ds_avg_rms vs run
χ² / ndf 1.873e+04 / 77
p0 263.8 ± 0.2169
700
600
500
400
300
200

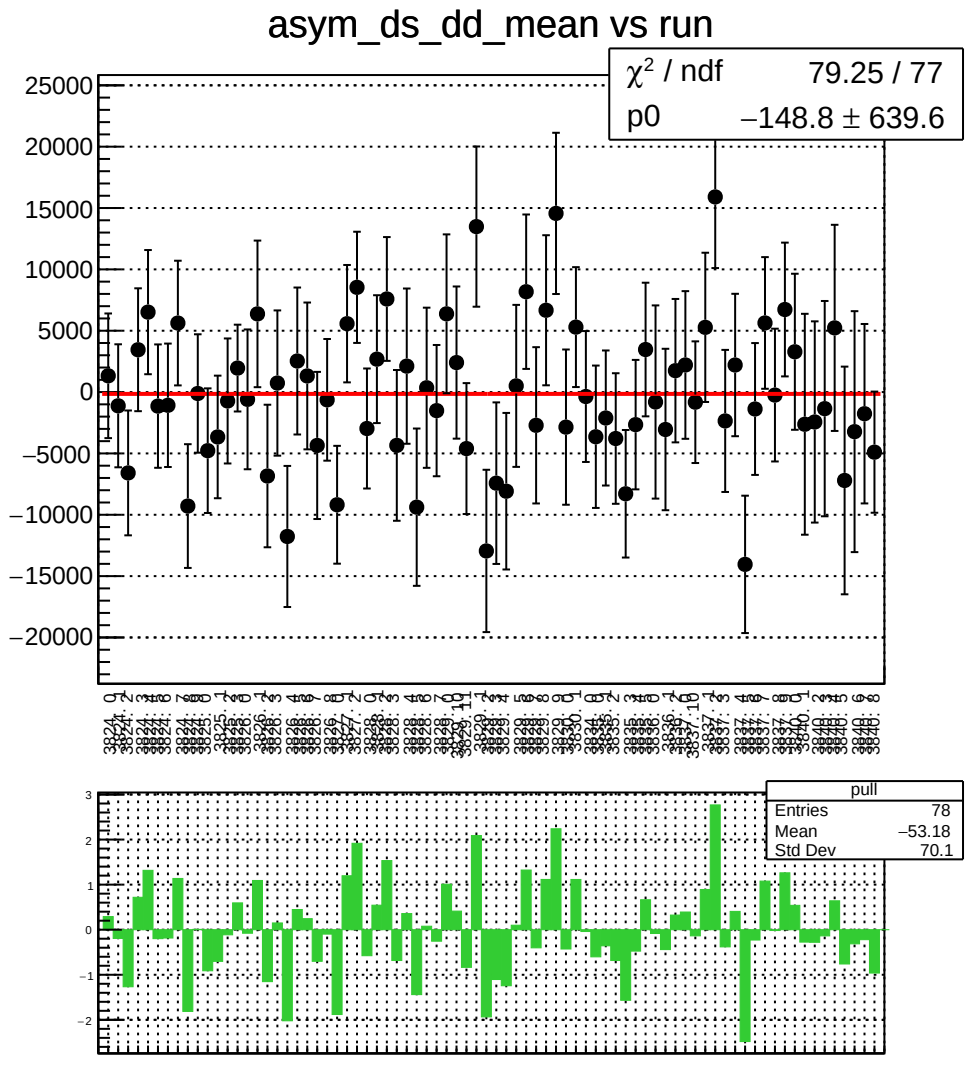

reg_asym_ds_dd_mean vs run
χ² / ndf 67.8 / 77
p0 42.42 ± 109.2
pull
Entries 78
Mean 236.5
Std Dev 191.5

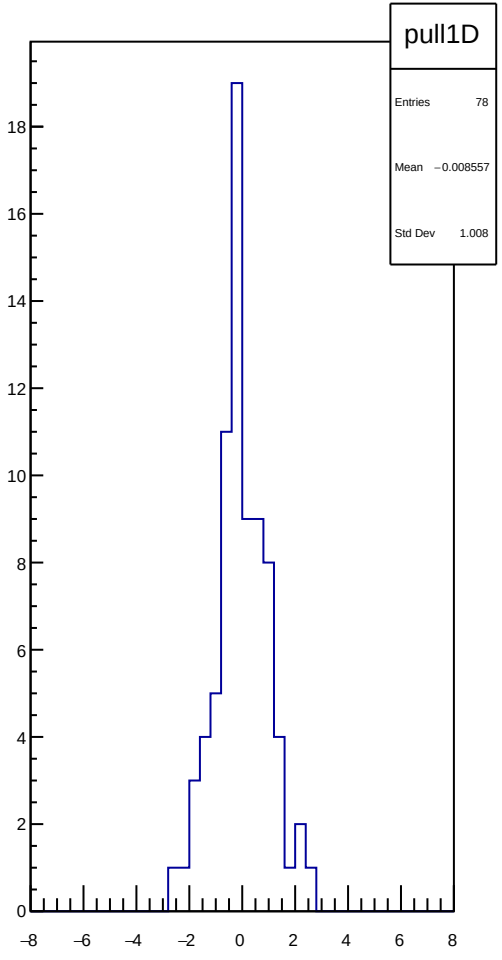

pull1D
Entries 78
Mean −0.01203
Std Dev 0.9323

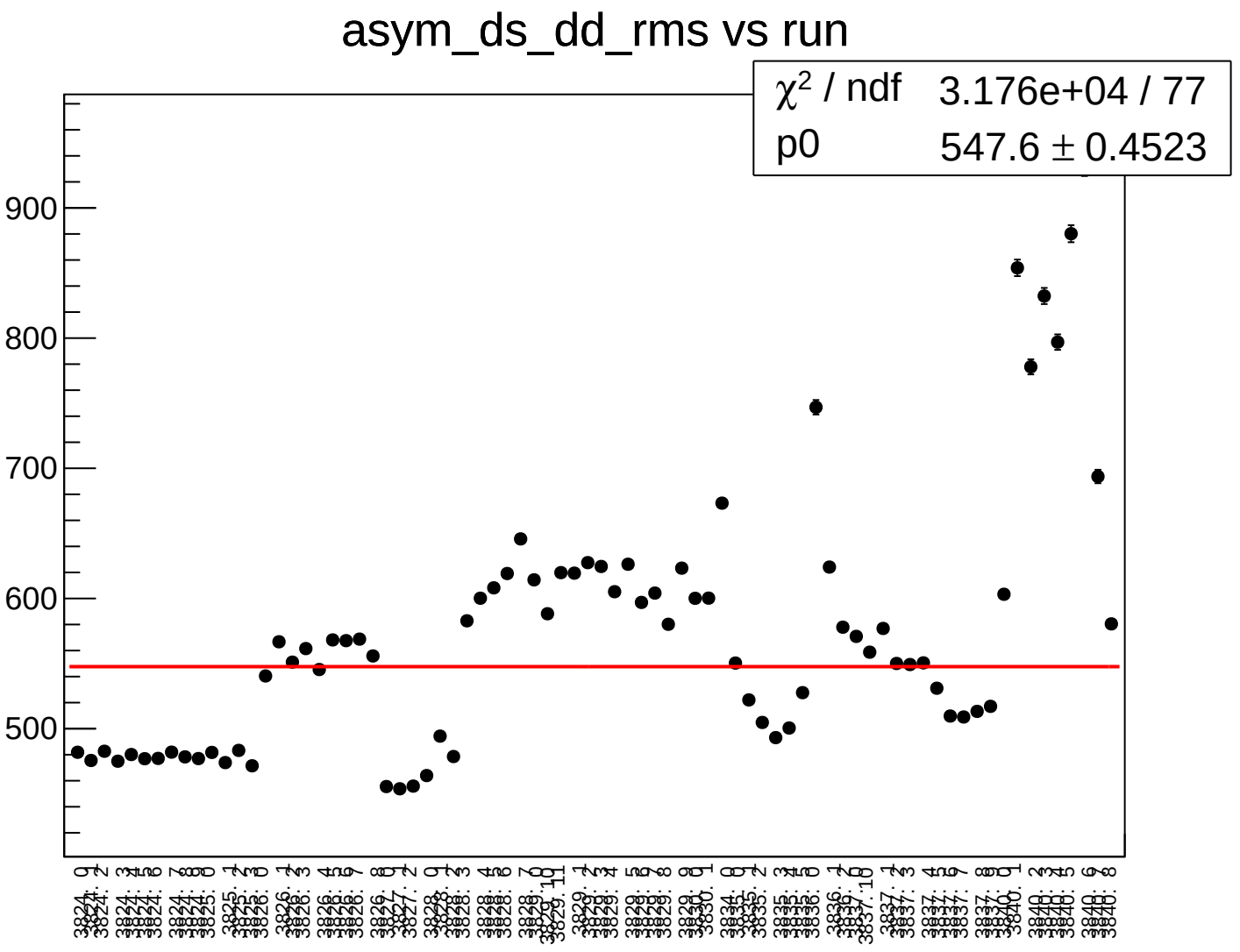

reg_asym_ds_dd_rms vs run
χ² / ndf 94.63 / 77
p0 94.48 ± 0.0772
97
96
95
94
93
92

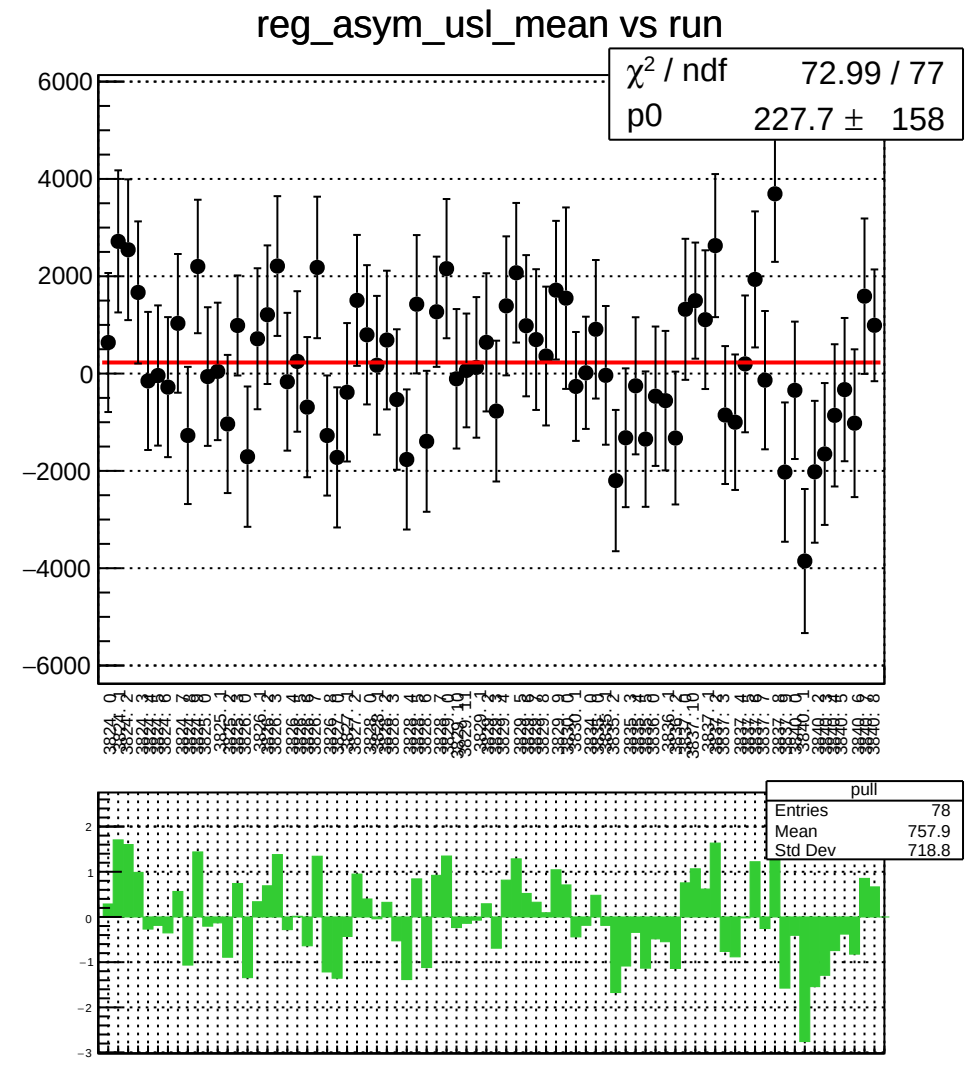

asym_ds_dd_correction_mean vs run
χ² / ndf 73.02 / 77
p0 197.2 ± 629.4
pull
Entries 78
Mean −119
Std Dev 142.7
pull1D
Entries 78
Mean 0.006817
Std Dev 0.9675

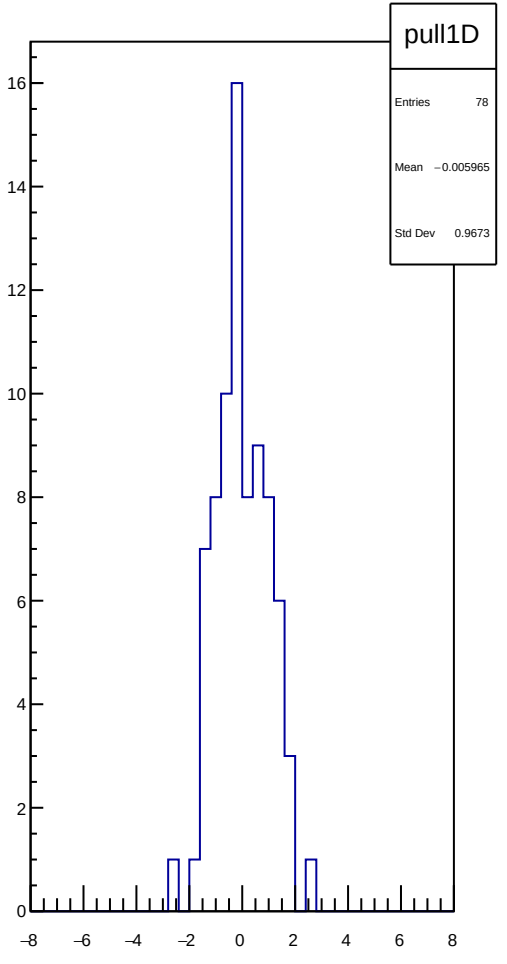

asym_ds_dd_correction_rms vs run
χ² / ndf 3.34e+04 / 77
p0 538.6 ± 0.4451
900
800
700
600
500
400

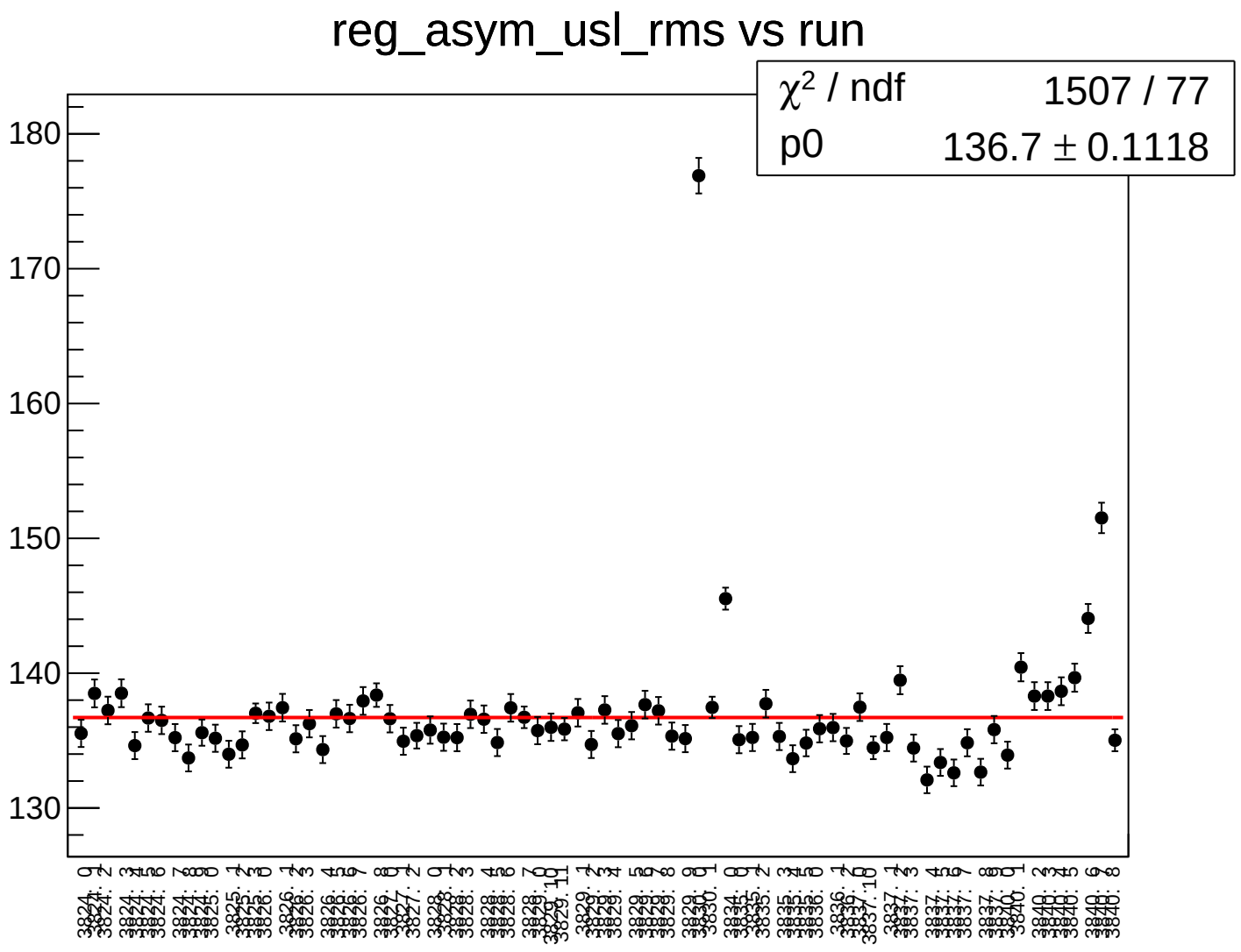

asym_ds_dd_mean vs run
χ² / ndf 79.25 / 77
p0 −148.8 ± 639.6
pull
Entries 78
Mean −53.18
Std Dev 70.1

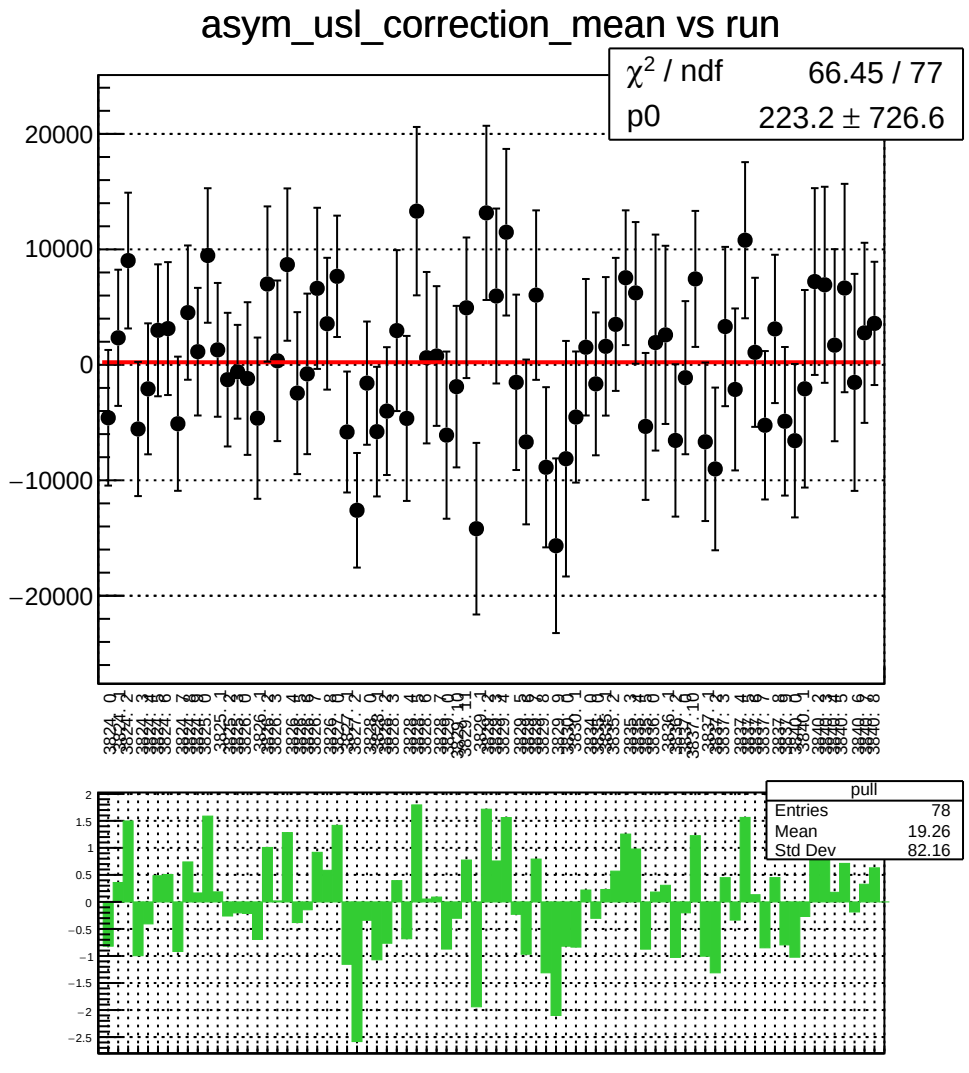

pull1D
Entries 78
Mean −0.008557
Std Dev 1.008

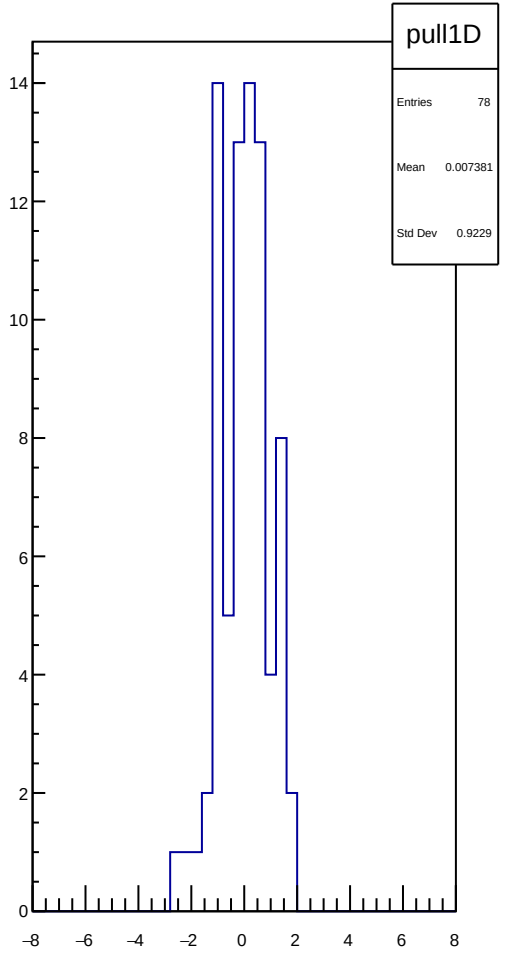

asym_ds_dd_rms vs run
χ^2 / ndf 3.176e+04 / 77
p0 547.6 ± 0.4523
900
800
700
600
500

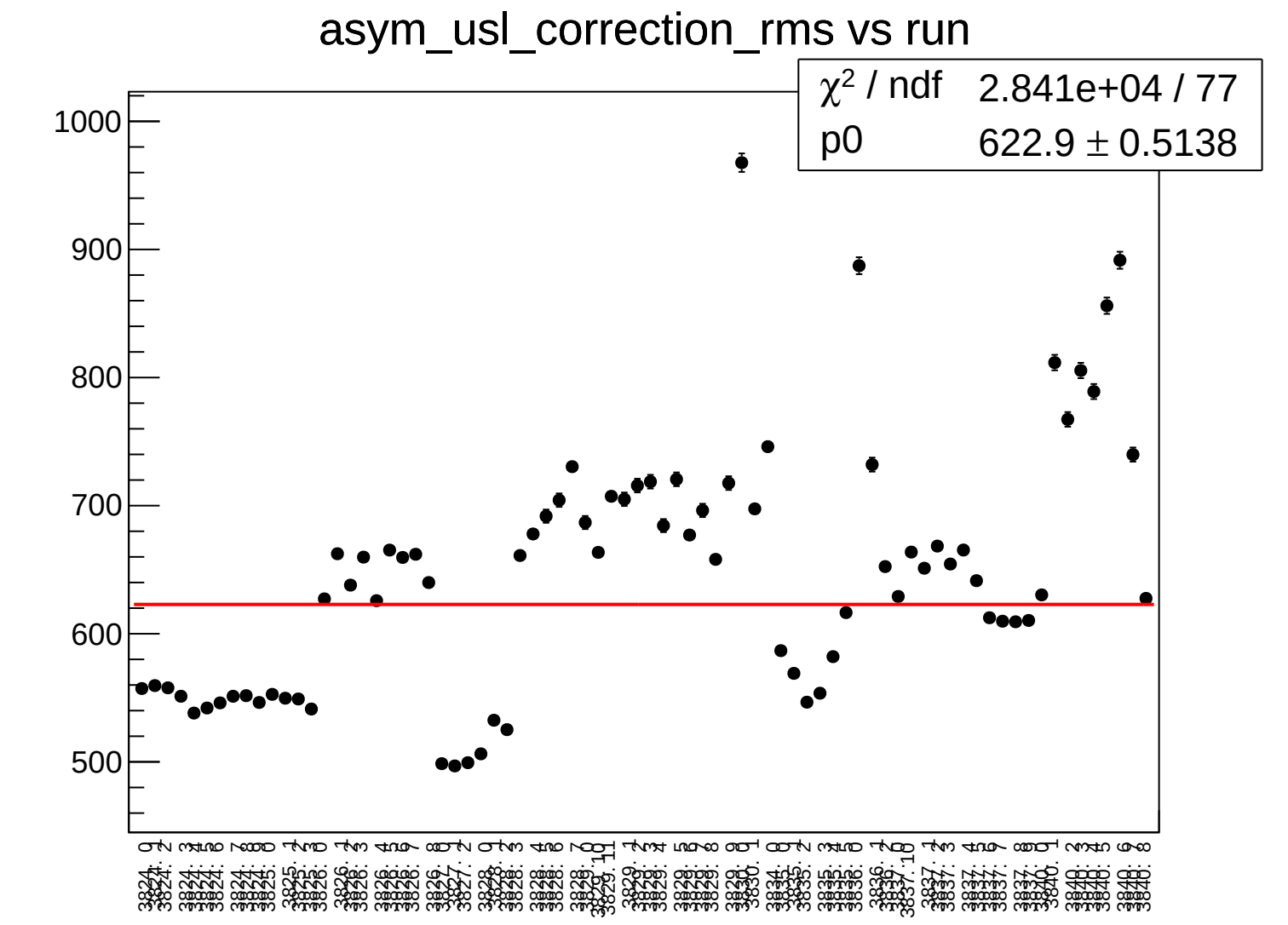

reg_asym_usl_mean vs run
χ² / ndf 72.99 / 77
p0 227.7 ± 158
pull
Entries 78
Mean 757.9
Std Dev 718.8

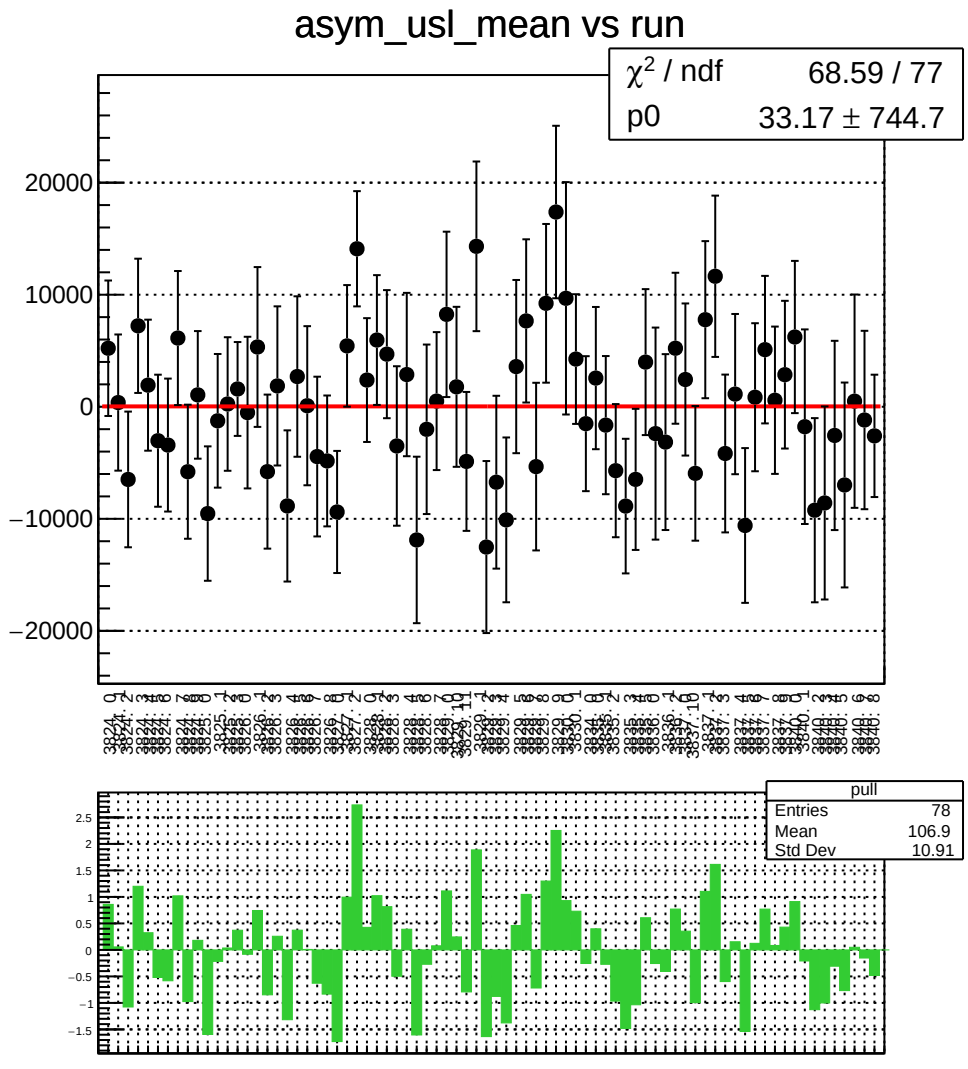

pull1D
Entries 78
Mean −0.005965
Std Dev 0.9673

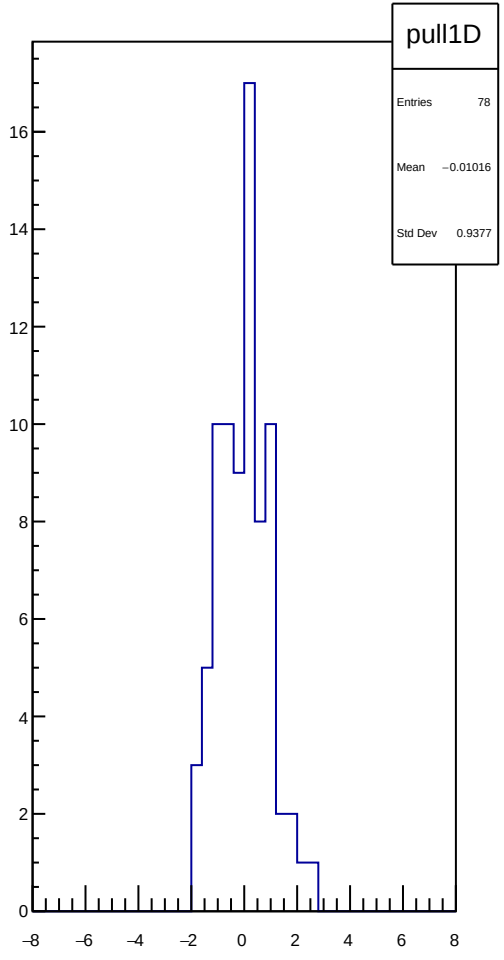

reg_asym_usl_rms vs run
χ² / ndf 1507 / 77
p0 136.7 ± 0.1118
180
170
160
150
140
130

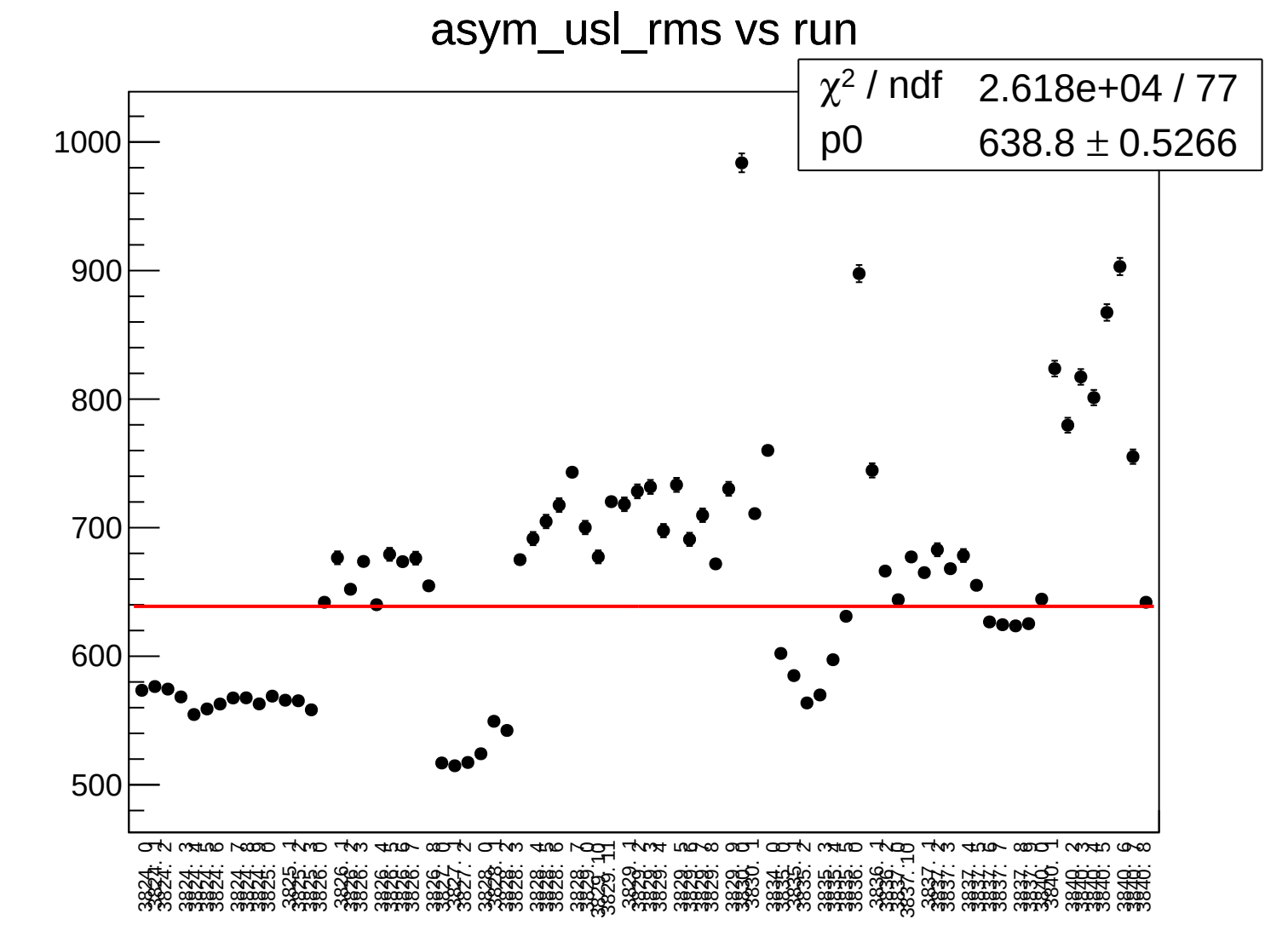

asym_usl_correction_mean vs run
χ² / ndf 66.45 / 77
p0 223.2 ± 726.6
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 19.26
Std Dev 82.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

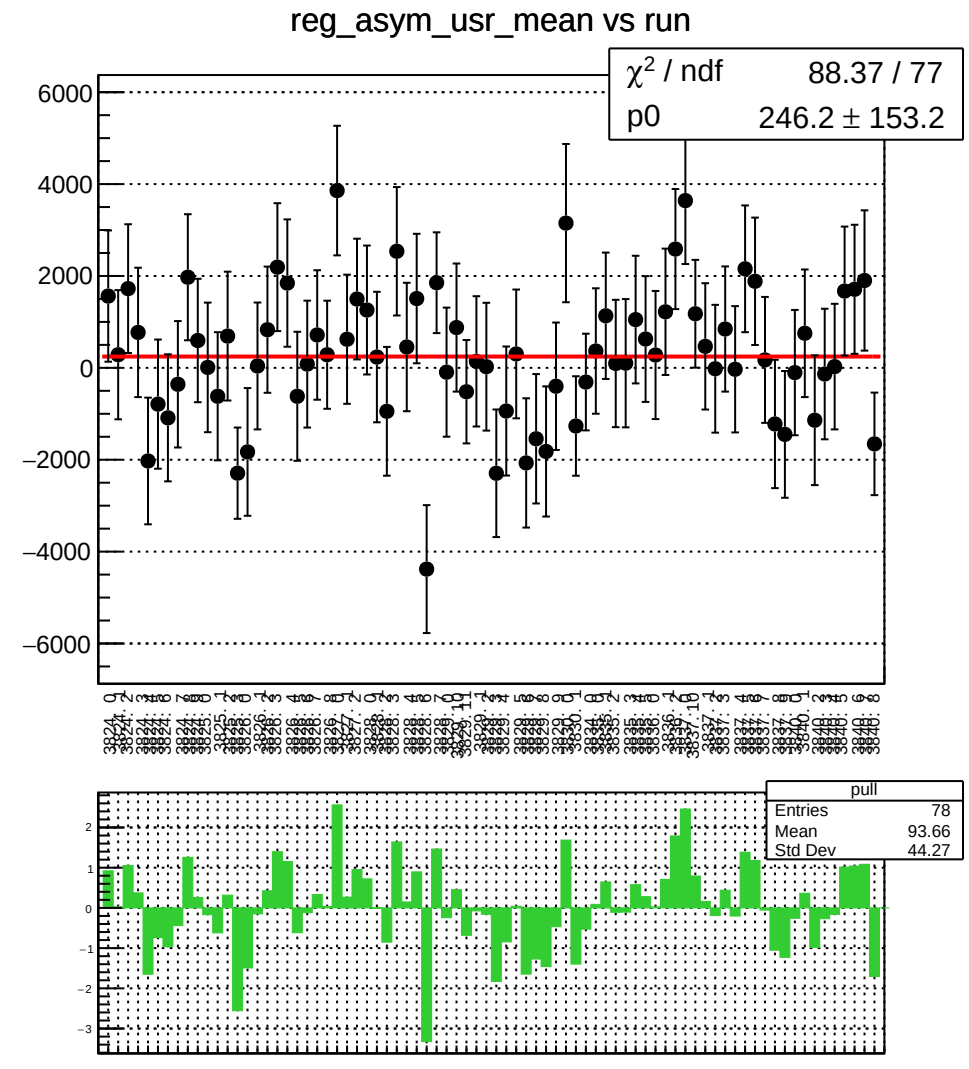

pull1D
Entries 78
Mean 0.007381
Std Dev 0.9229
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

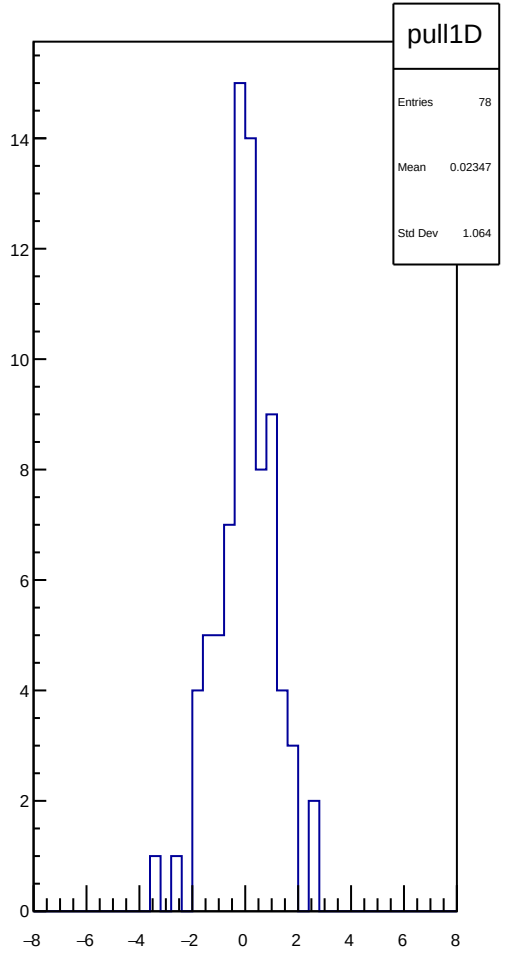

asym_usl_correction_rms vs run
χ² / ndf 2.841e+04 / 77
p0 622.9 ± 0.5138
1000
900
800
700
600
500

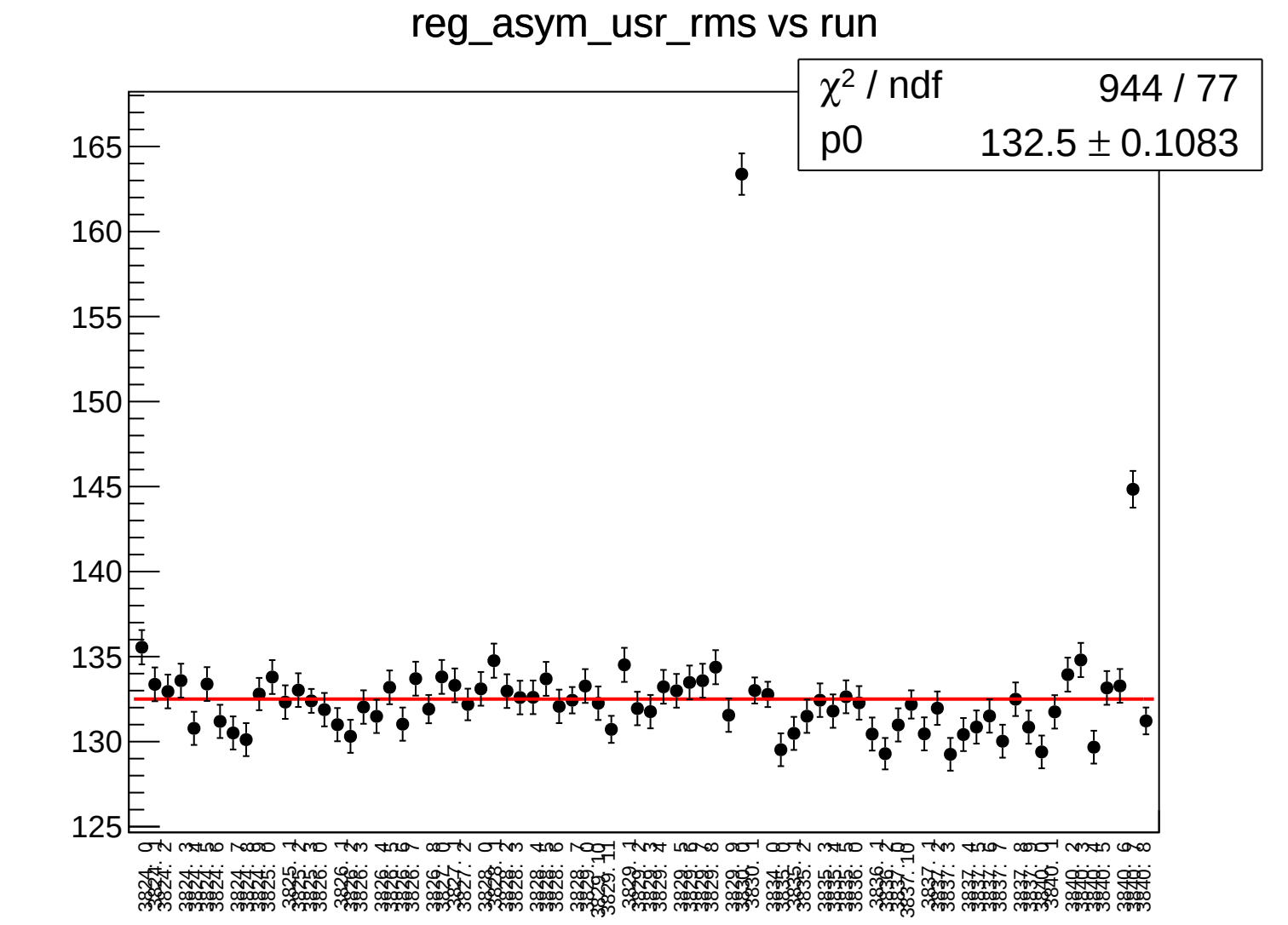

asym_usl_mean vs run
χ² / ndf 68.59 / 77
p0 33.17 ± 744.7
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 106.9
Std Dev 10.91
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

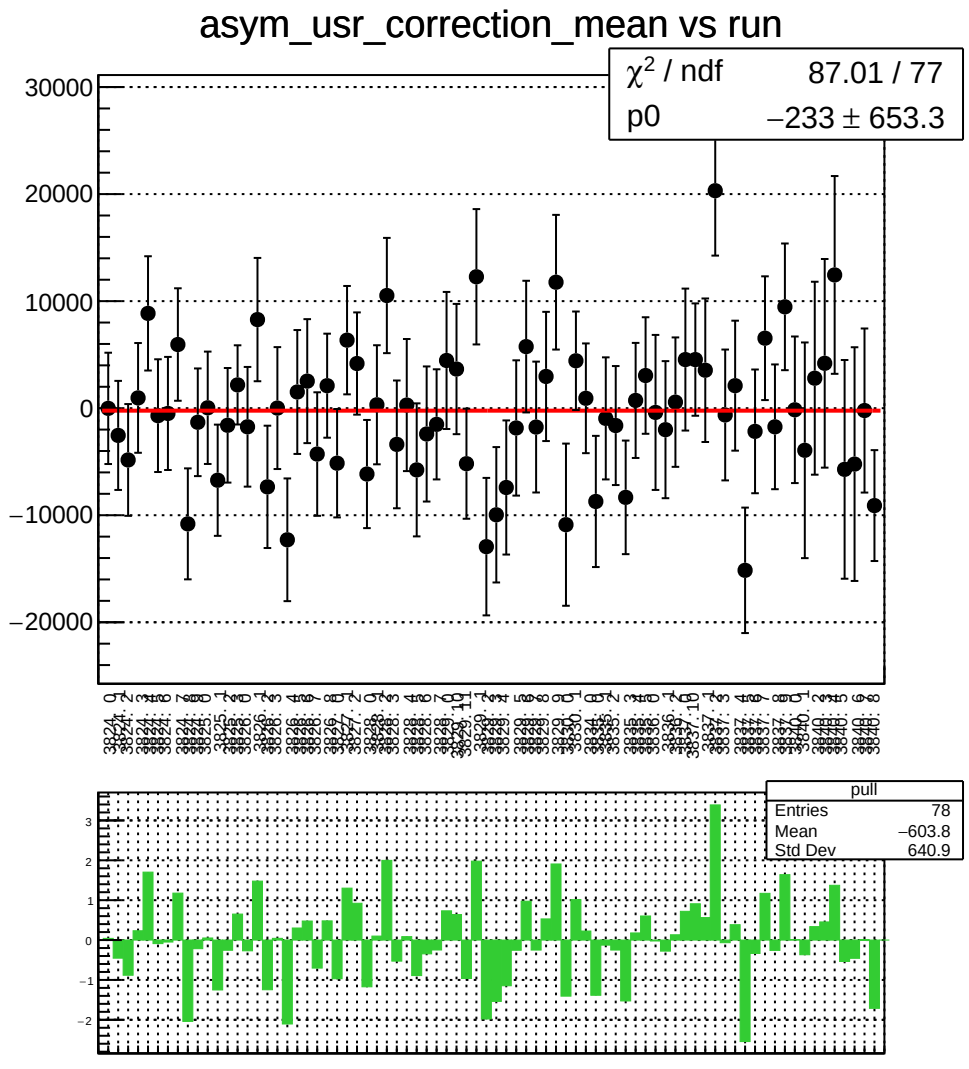

pull1D
Entries 78
Mean −0.01016
Std Dev 0.9377
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

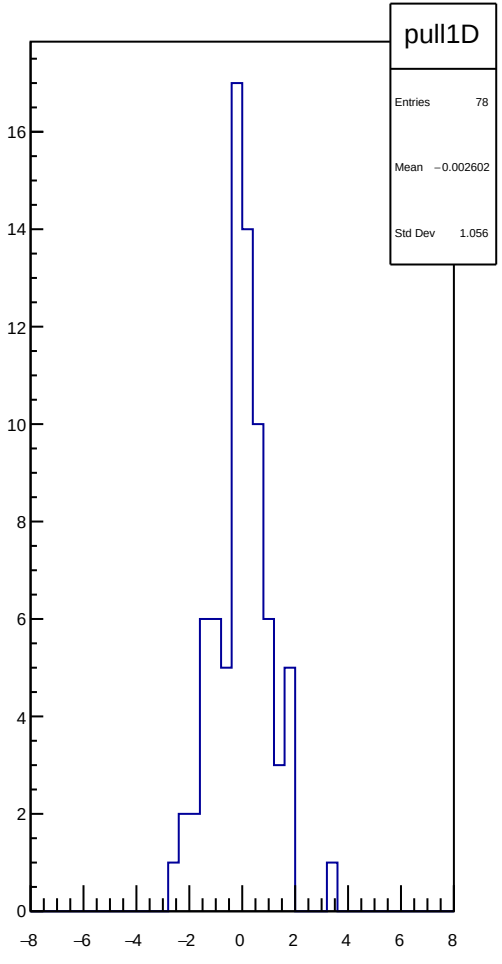

asym_usl_rms vs run
χ² / ndf 2.618e+04 / 77
p0 638.8 ± 0.5266
1000
900
800
700
600
500

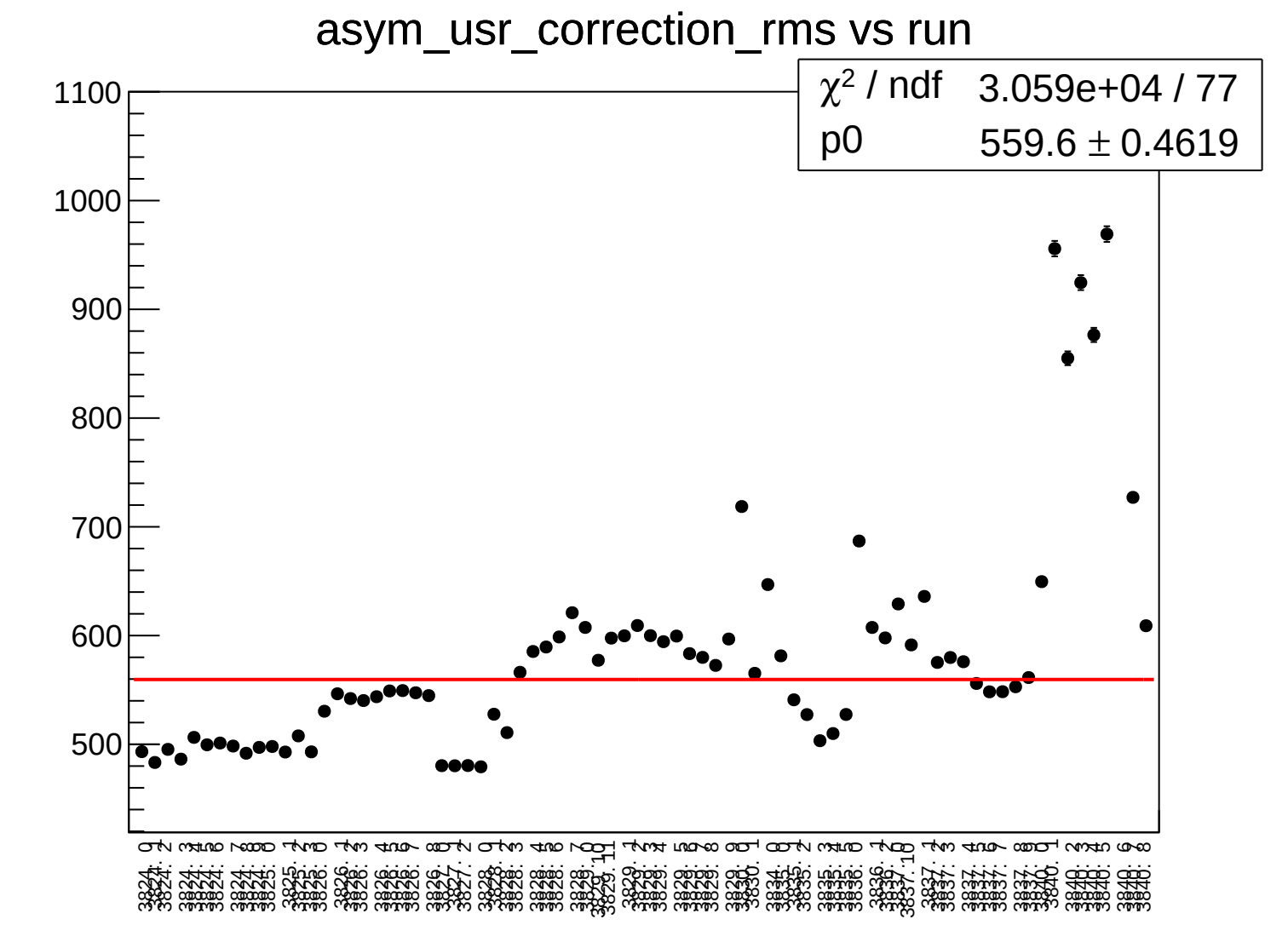

reg_asym_usr_mean vs run
χ² / ndf 88.37 / 77
p0 246.2 ± 153.2
pull
Entries 78
Mean 93.66
Std Dev 44.27

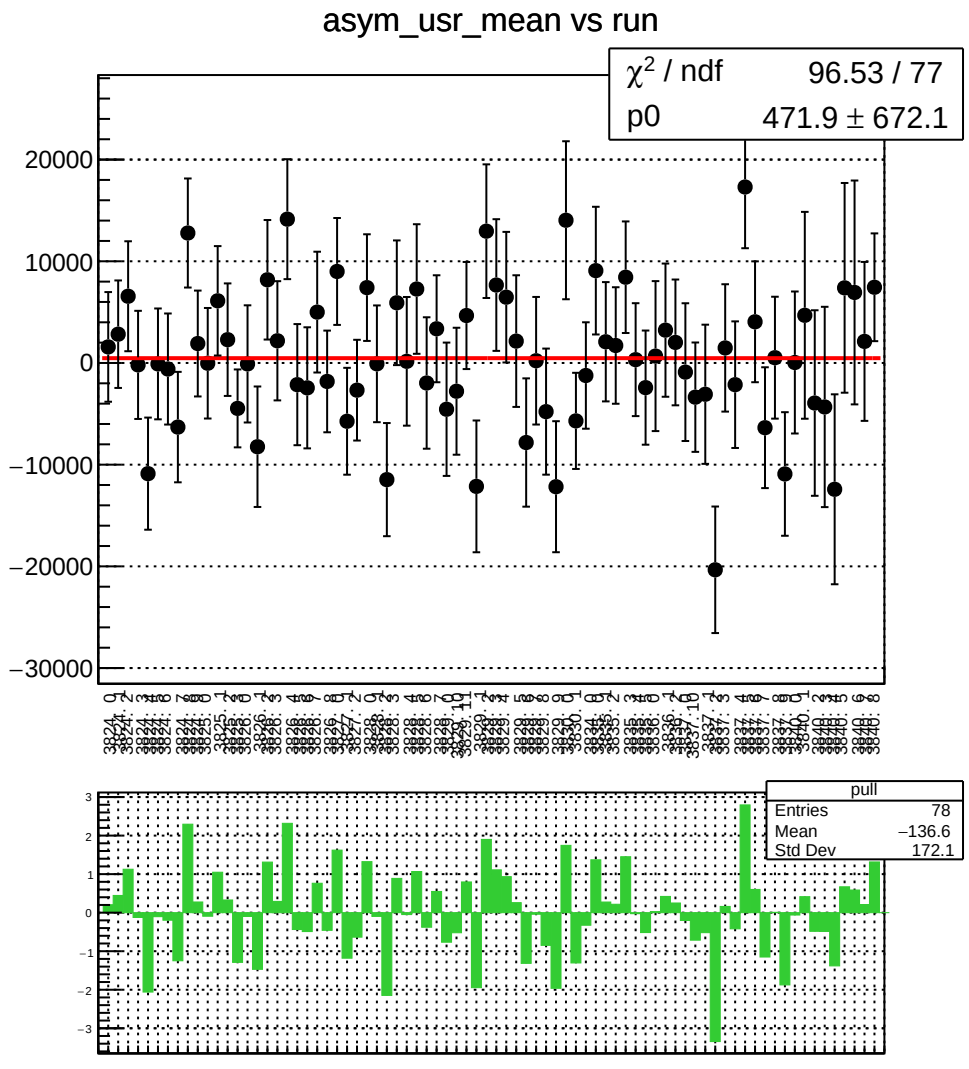

pull1D
Entries 78
Mean 0.02347
Std Dev 1.064

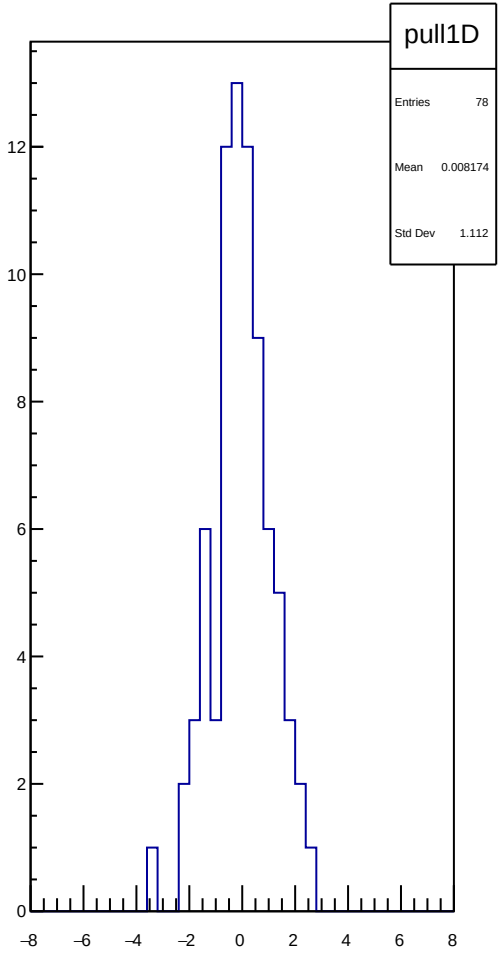

reg_asym_usr_rms vs run
χ² / ndf 944 / 77
p0 132.5 ± 0.1083
165
160
155
150
145
140
135
130
125

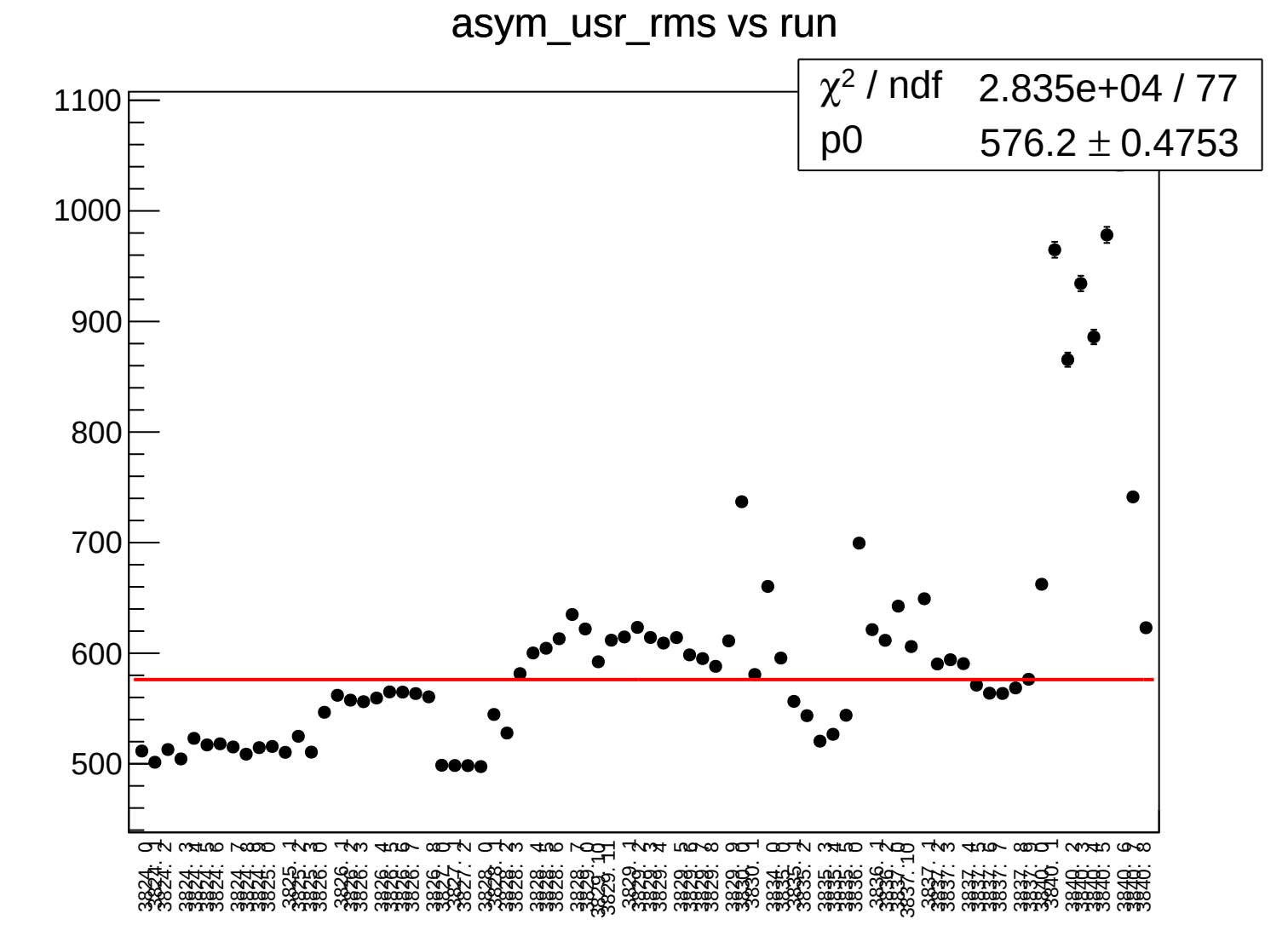

asym_usr_correction_mean vs run
χ² / ndf 87.01 / 77
p0 −233 ± 653.3
30000
20000
10000
0
−10000
−20000
pull
Entries 78
Mean −603.8
Std Dev 640.9
3
2
1
0
−1
−2

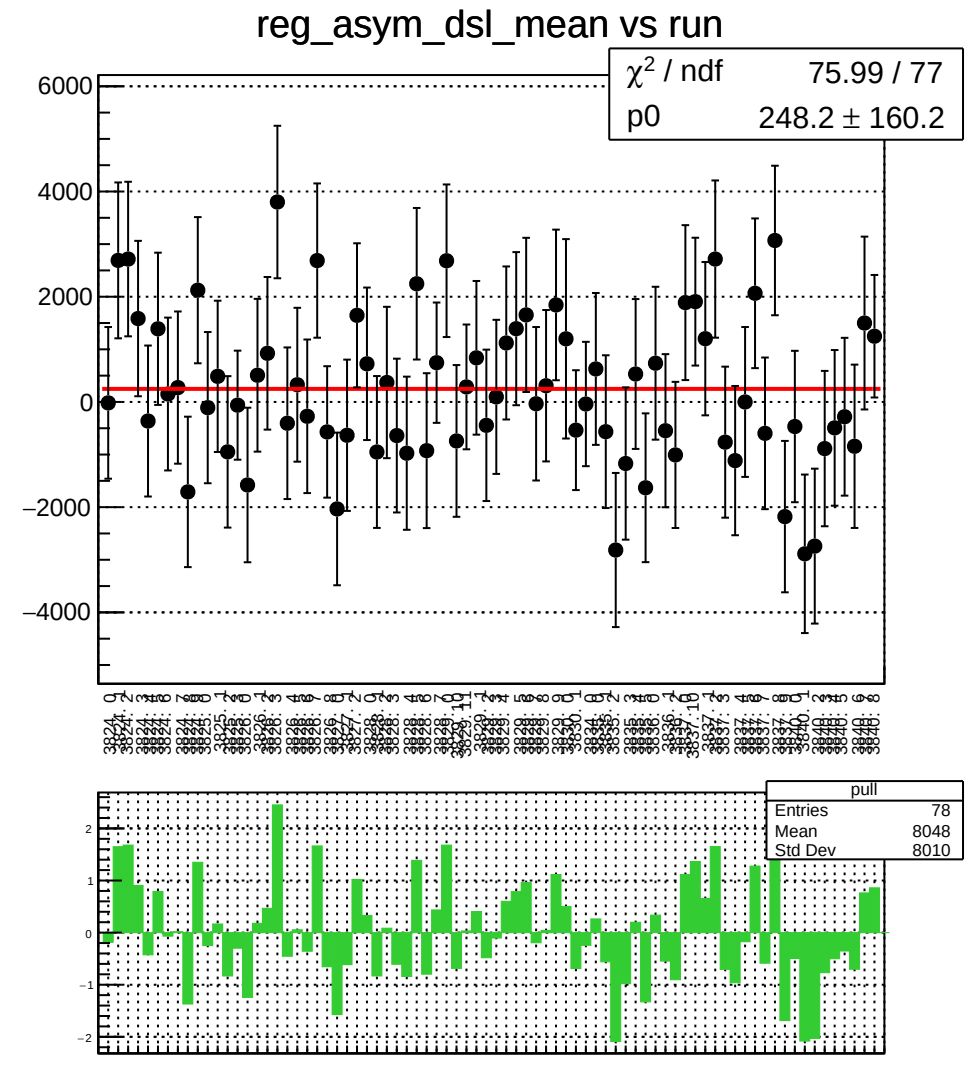

pull1D
Entries 78
Mean −0.002602
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

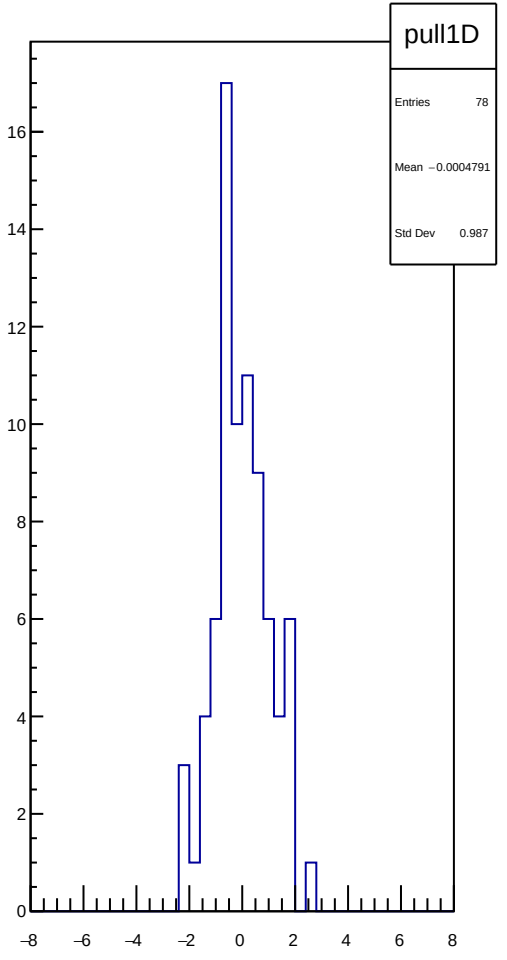

asym_usr_correction_rms vs run
χ² / ndf 3.059e+04 / 77
p0 559.6 ± 0.4619
1100
1000
900
800
700
600
500

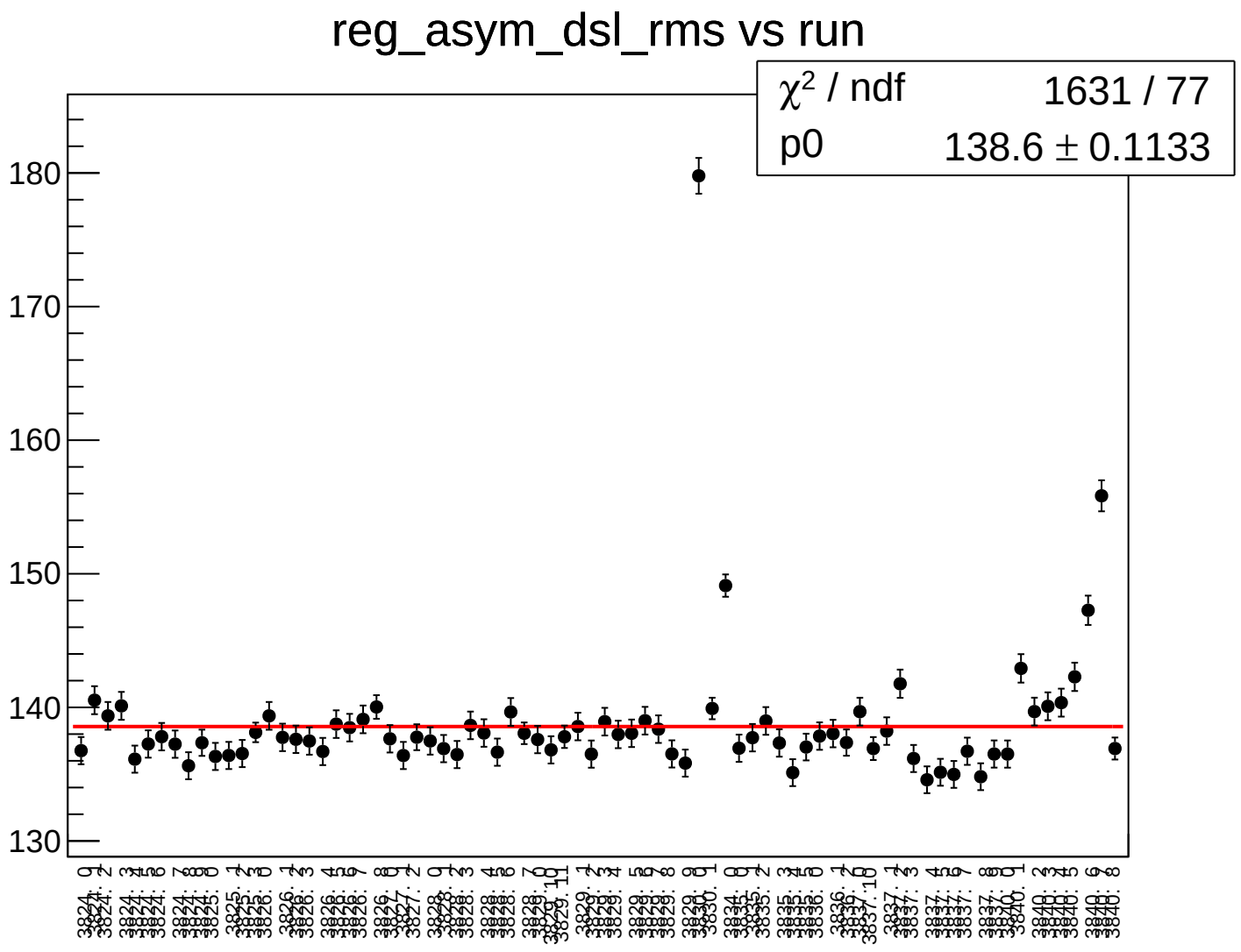

asym_usr_mean vs run
χ² / ndf 96.53 / 77
p0 471.9 ± 672.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean −136.6
Std Dev 172.1
3
2
1
0
−1
−2
−3

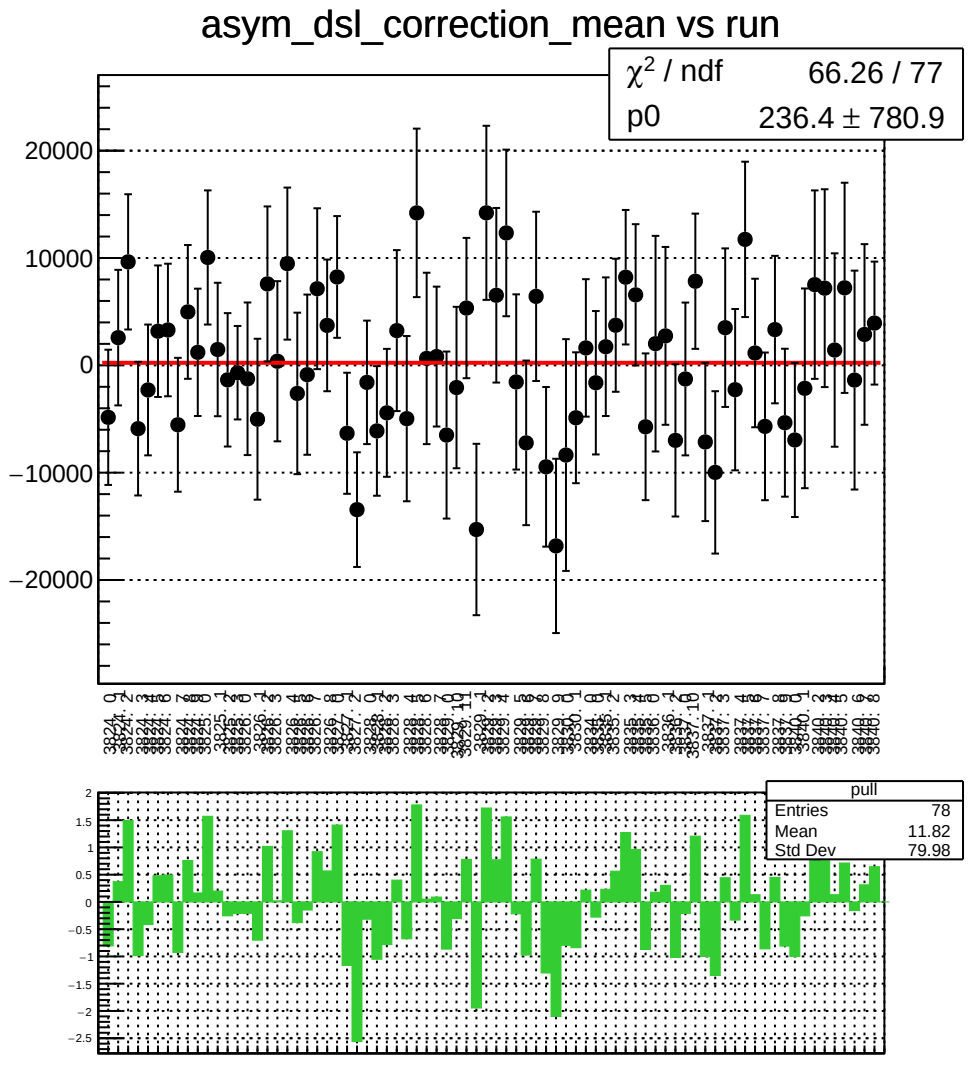

pull1D
Entries 78
Mean 0.008174
Std Dev 1.112
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

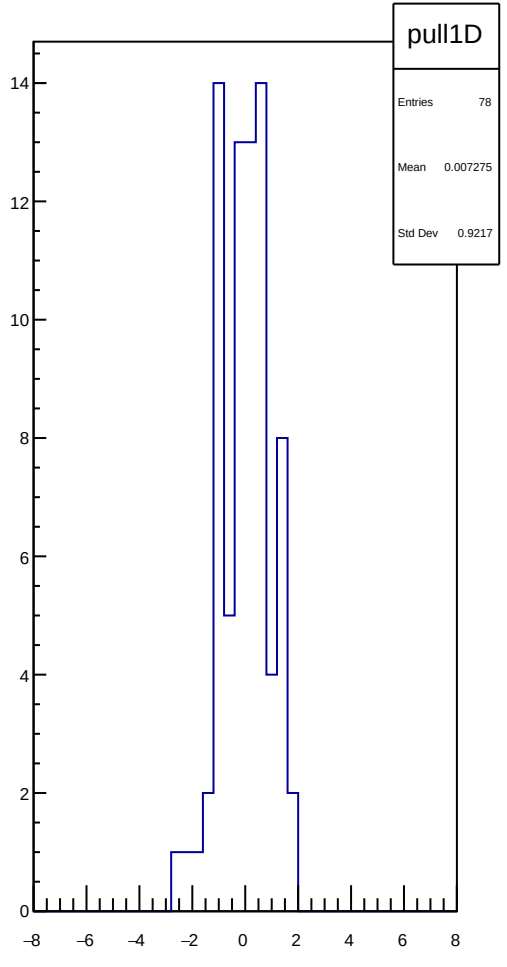

asym_usr_rms vs run
χ² / ndf 2.835e+04 / 77
p0 576.2 ± 0.4753
1100
1000
900
800
700
600
500

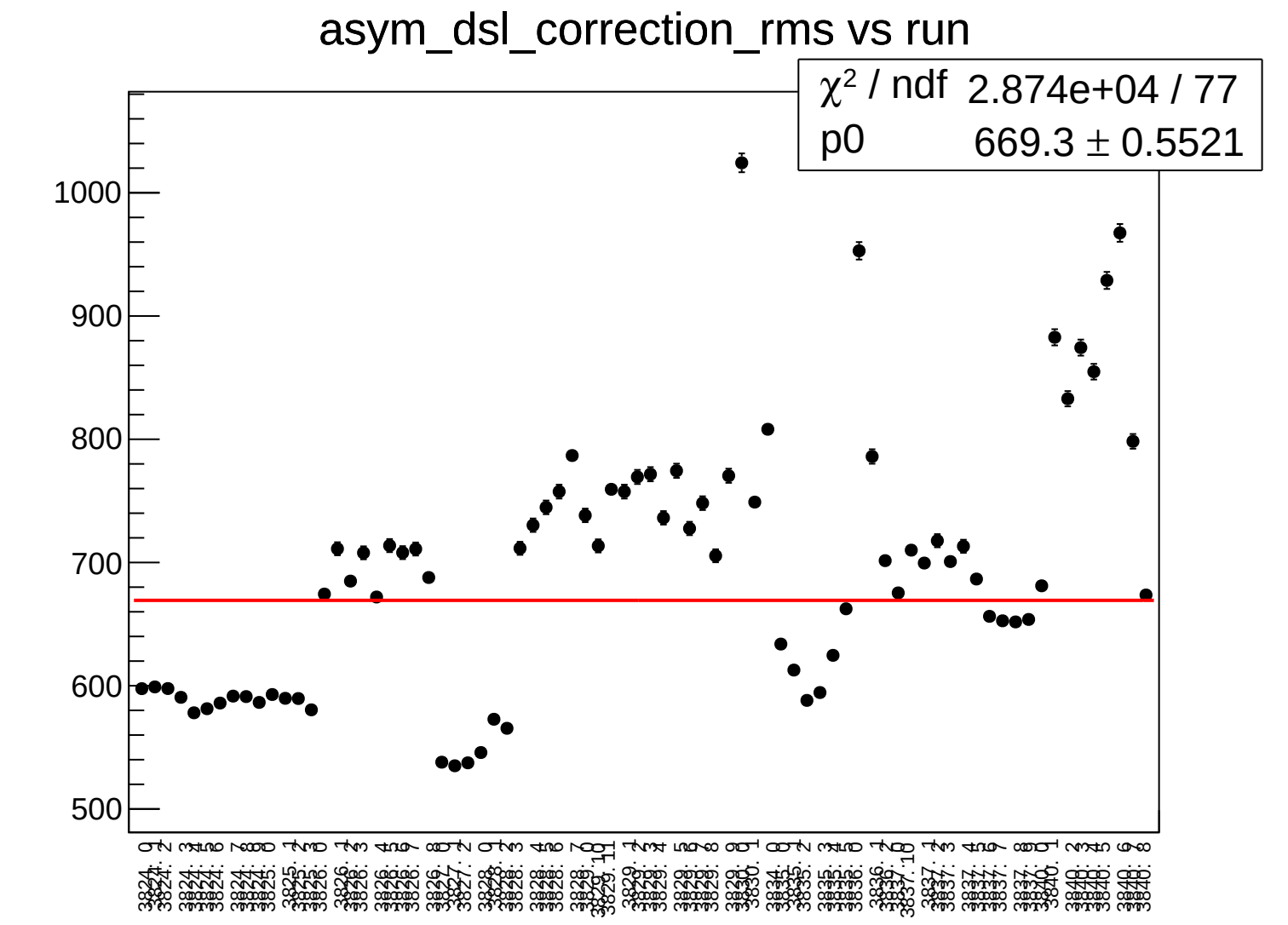

reg_asym_dsl_mean vs run
χ² / ndf 75.99 / 77
p0 248.2 ± 160.2
pull
Entries 78
Mean 8048
Std Dev 8010

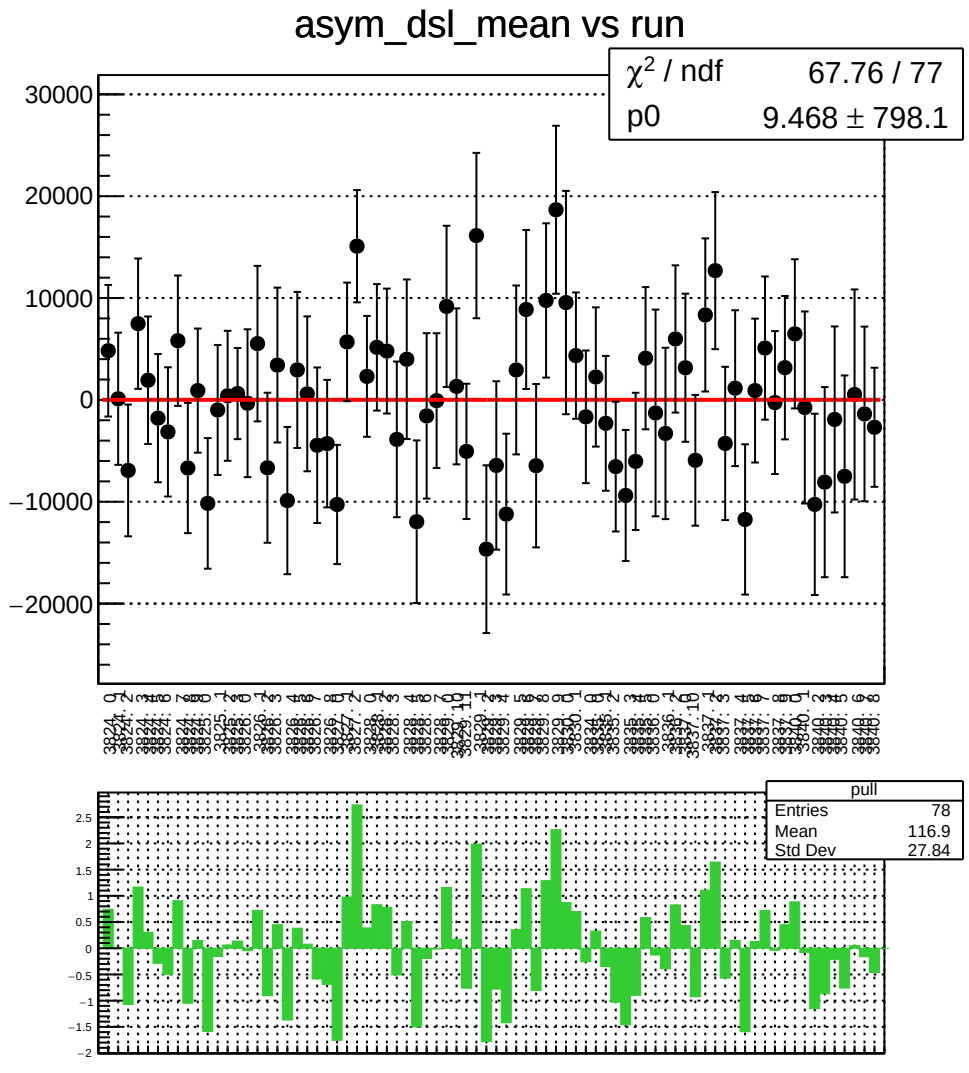

pull1D
Entries 78
Mean −0.0004791
Std Dev 0.987

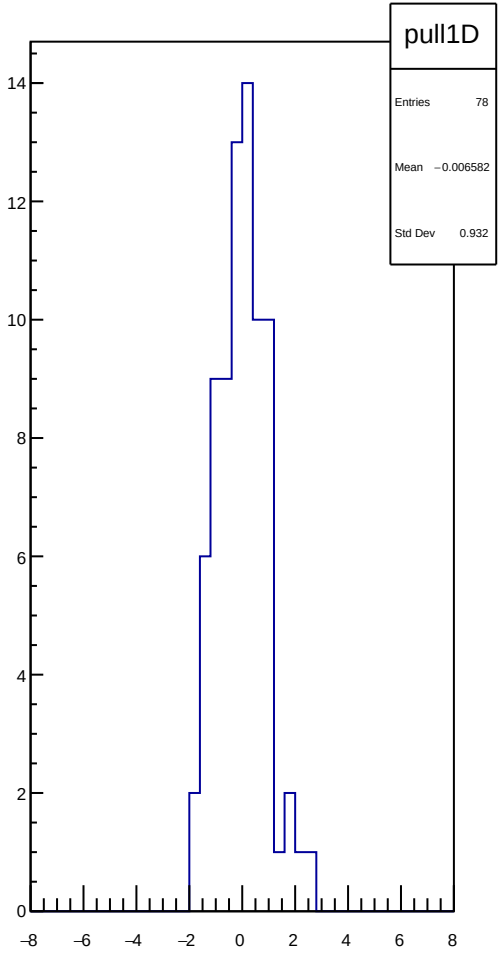

reg_asym_dsl_rms vs run
χ² / ndf 1631 / 77
p0 138.6 ± 0.1133
180
170
160
150
140
130

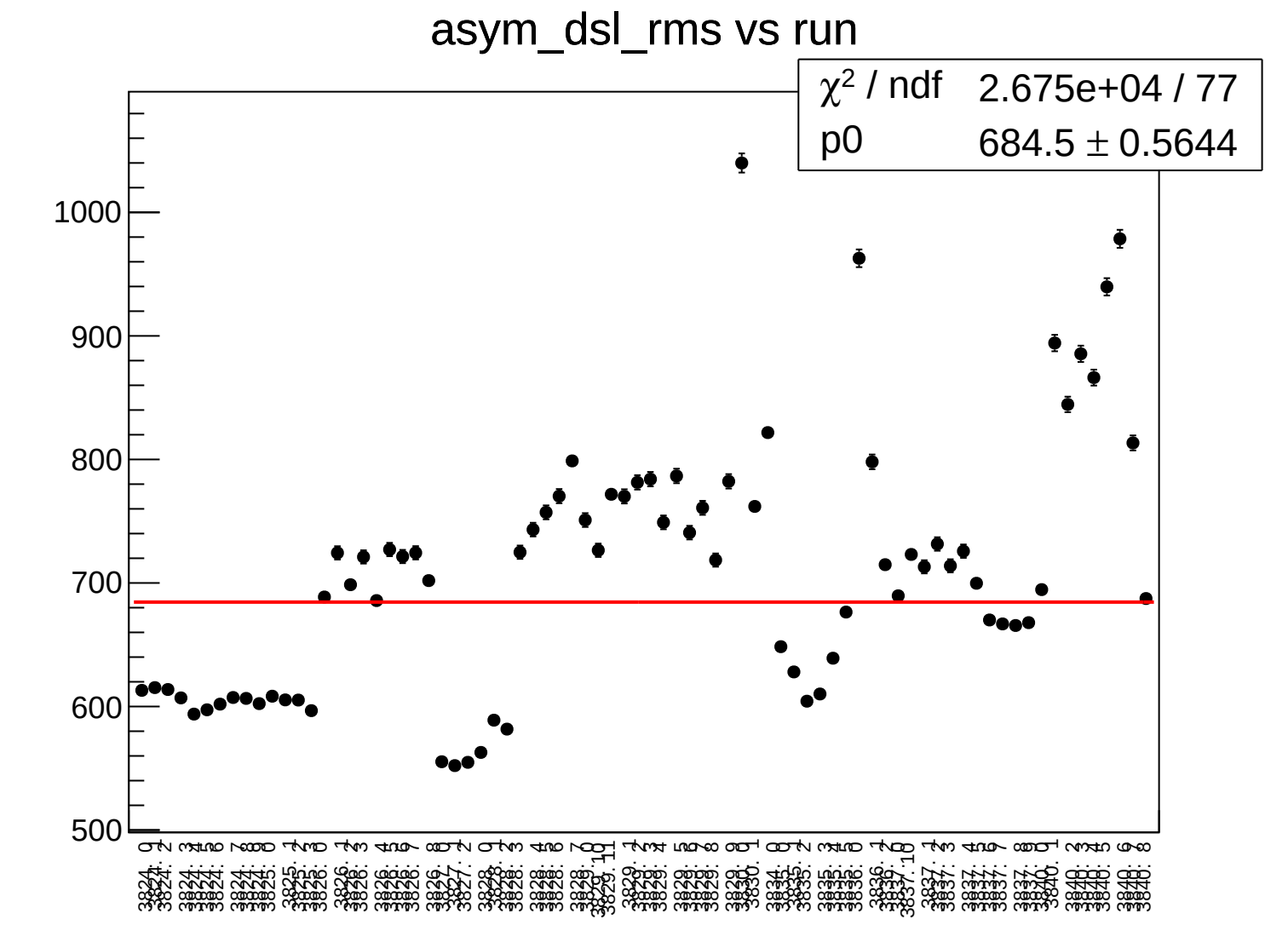

asym_dsl_correction_mean vs run
χ² / ndf 66.26 / 77
p0 236.4 ± 780.9
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 11.82
Std Dev 79.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

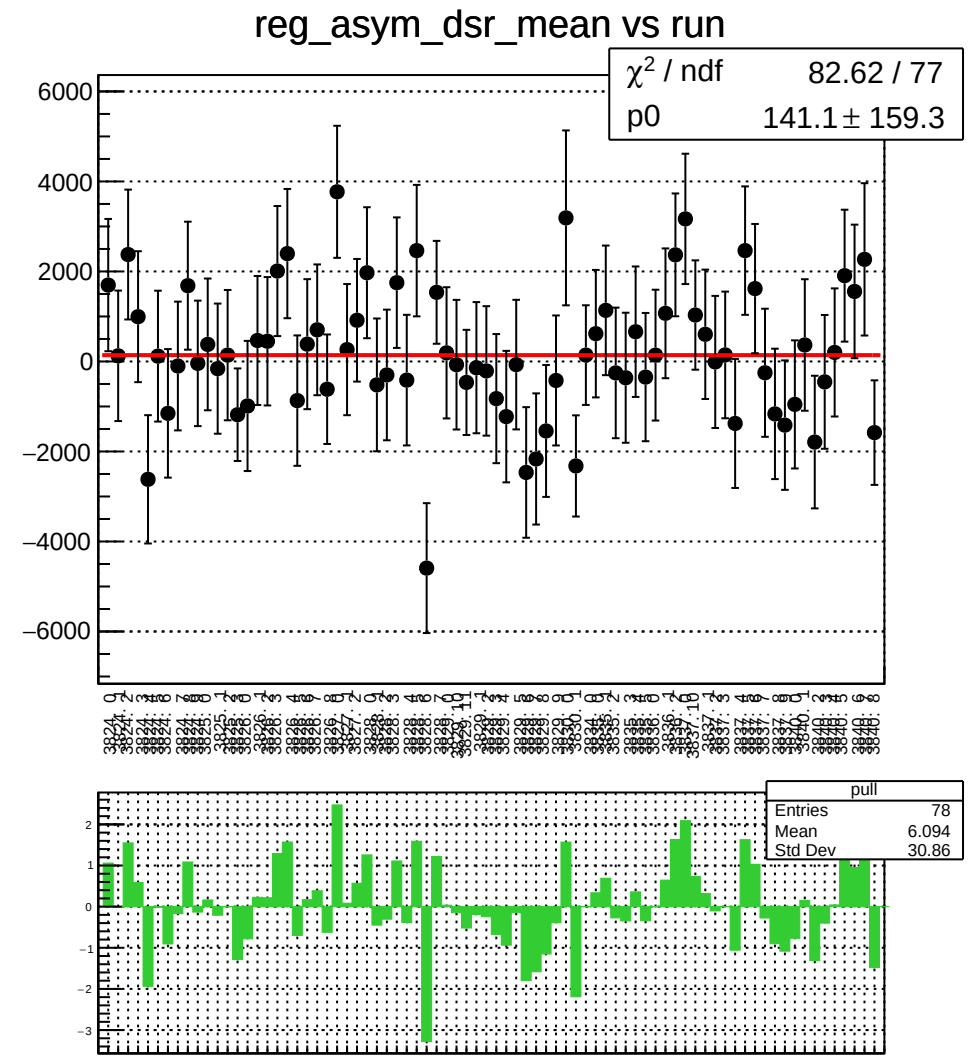

pull1D
Entries 78
Mean 0.007275
Std Dev 0.9217
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

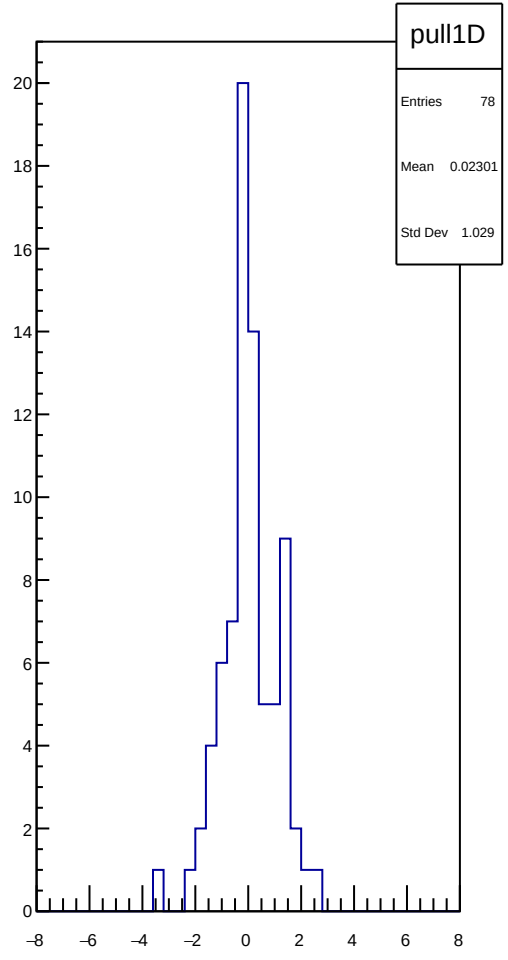

asym_dsl_correction_rms vs run
χ² / ndf 2.874e+04 / 77
p0 669.3 ± 0.5521
1000
900
800
700
600
500

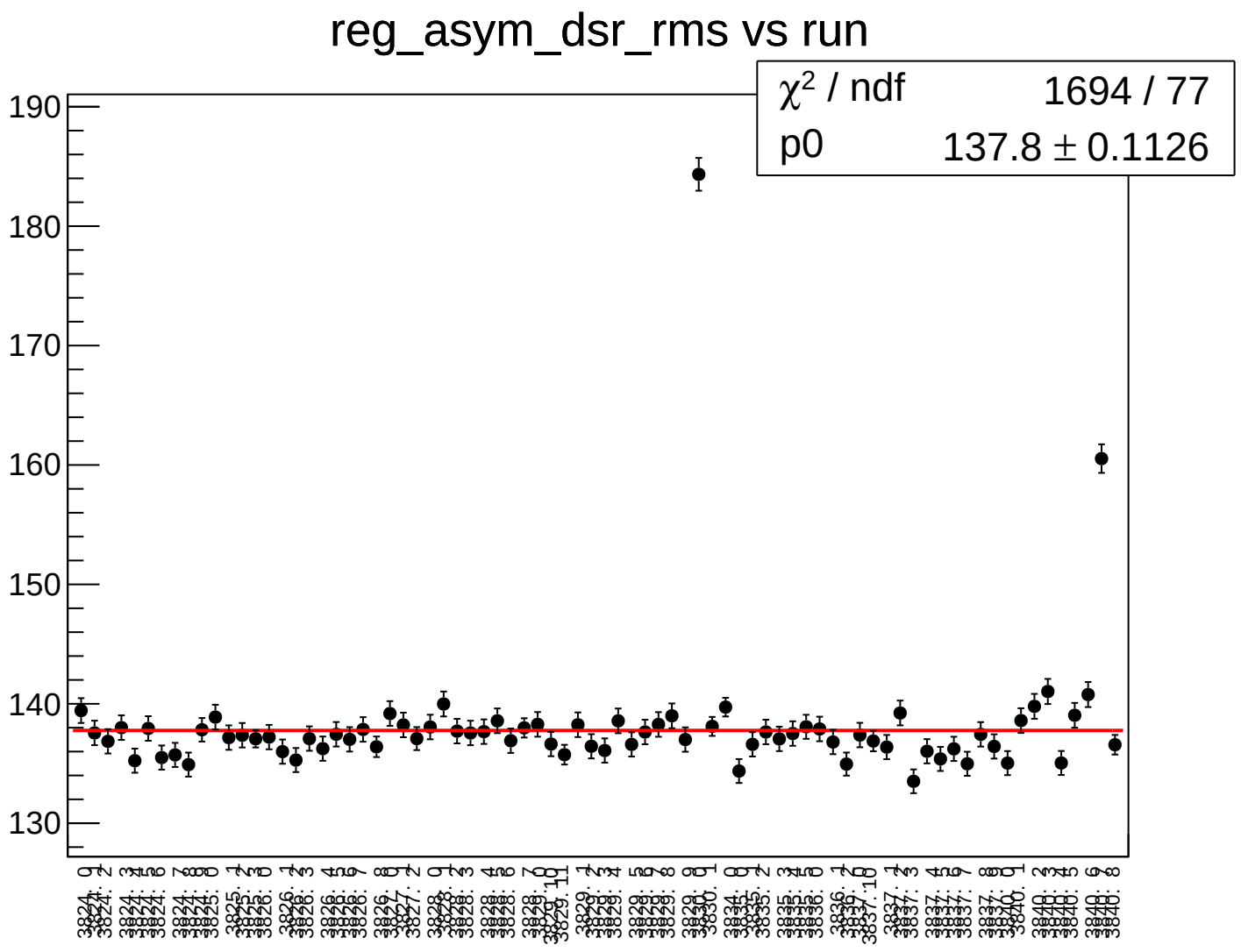

asym_dsl_mean vs run
χ² / ndf 67.76 / 77
p0 9.468 ± 798.1
30000
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 116.9
Std Dev 27.84
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

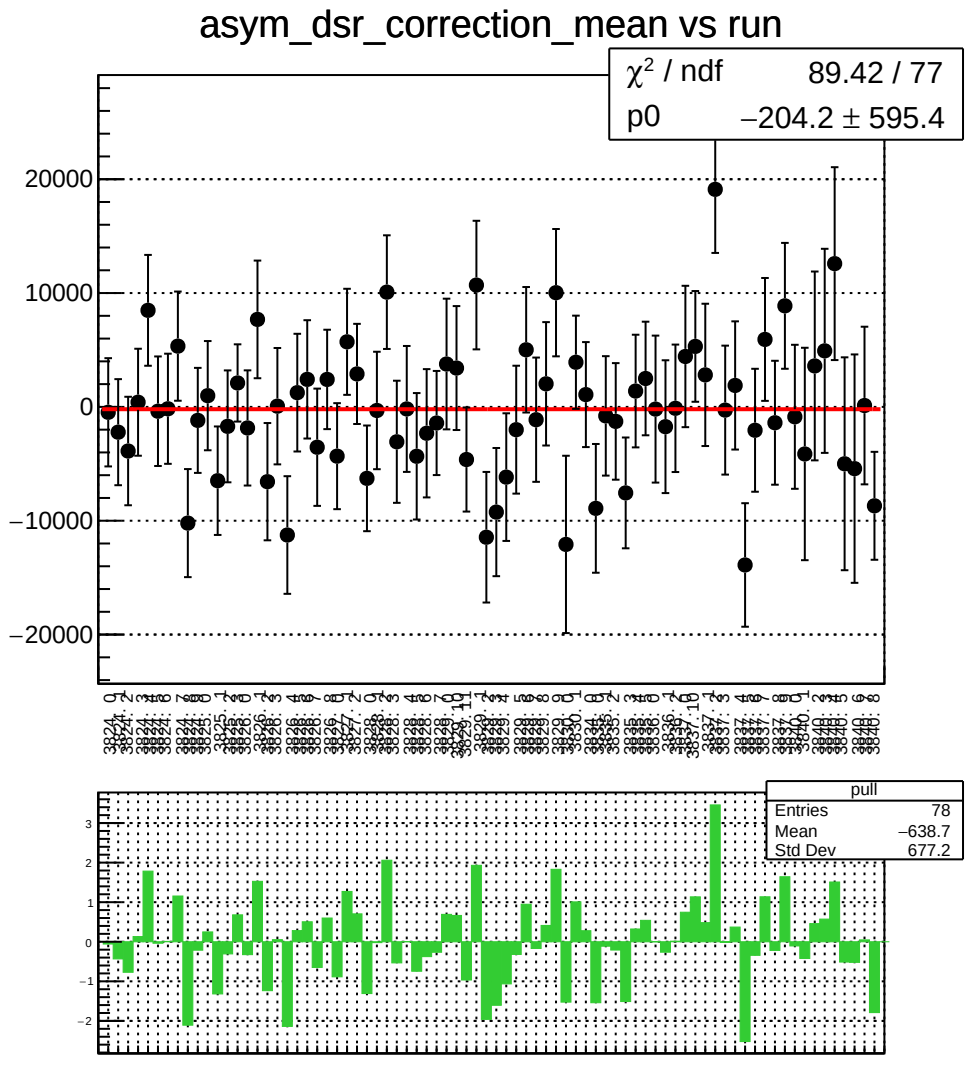

pull1D
Entries 78
Mean −0.006582
Std Dev 0.932
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

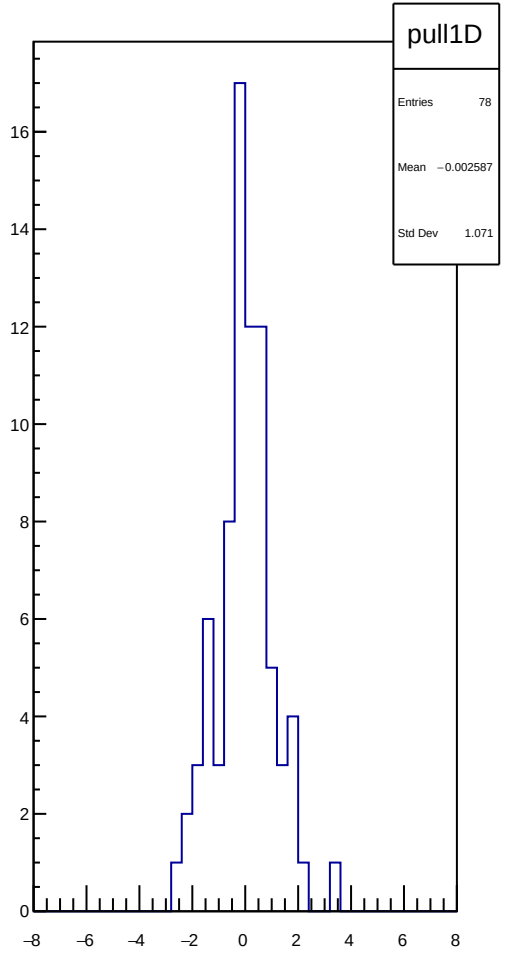

asym_dsl_rms vs run
χ² / ndf 2.675e+04 / 77
p0 684.5 ± 0.5644
1000
900
800
700
600
500

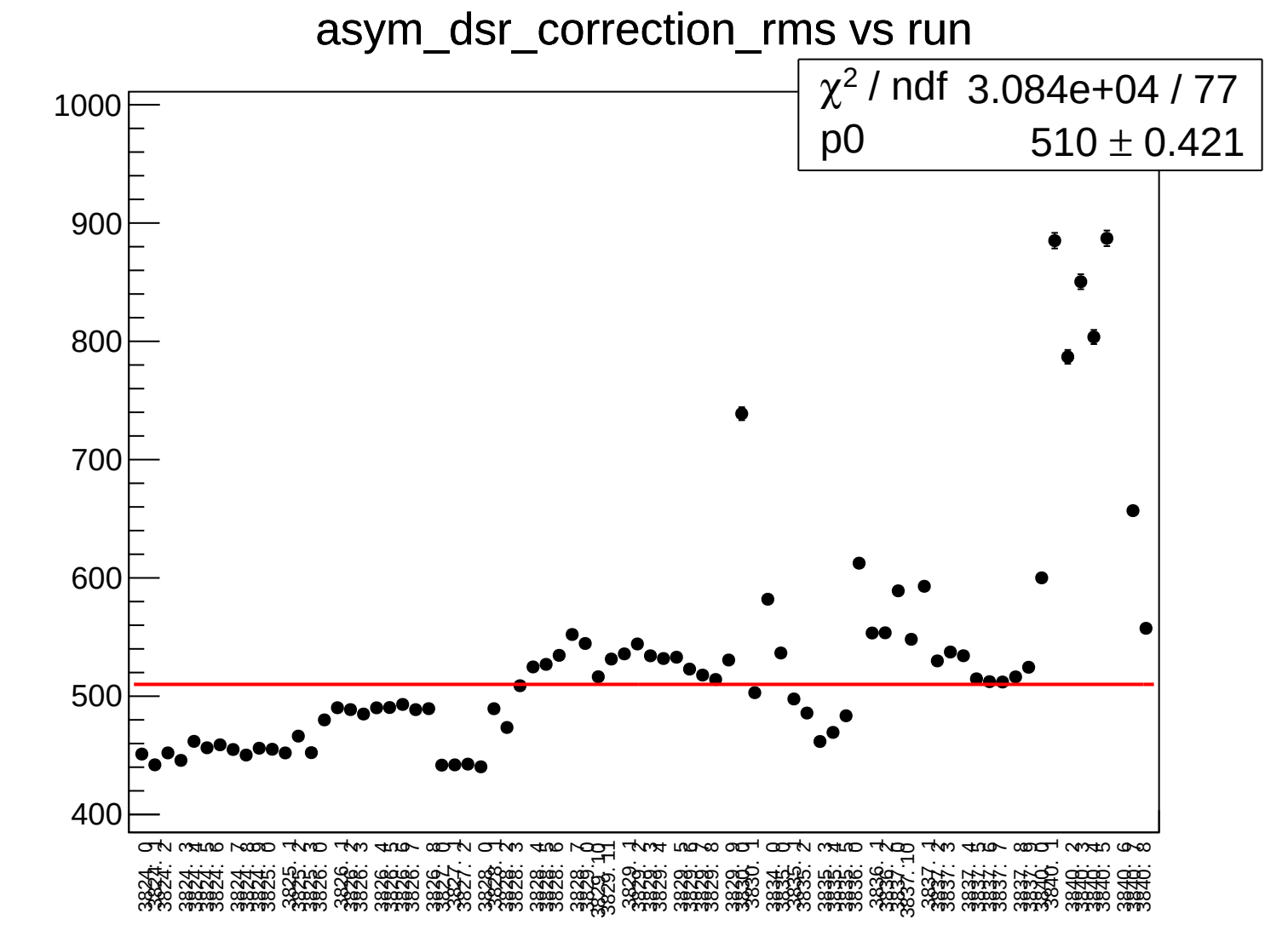

reg_asym_dsr_mean vs run
χ² / ndf 82.62 / 77
p0 141.1 ± 159.3
pull
Entries 78
Mean 6.094
Std Dev 30.86

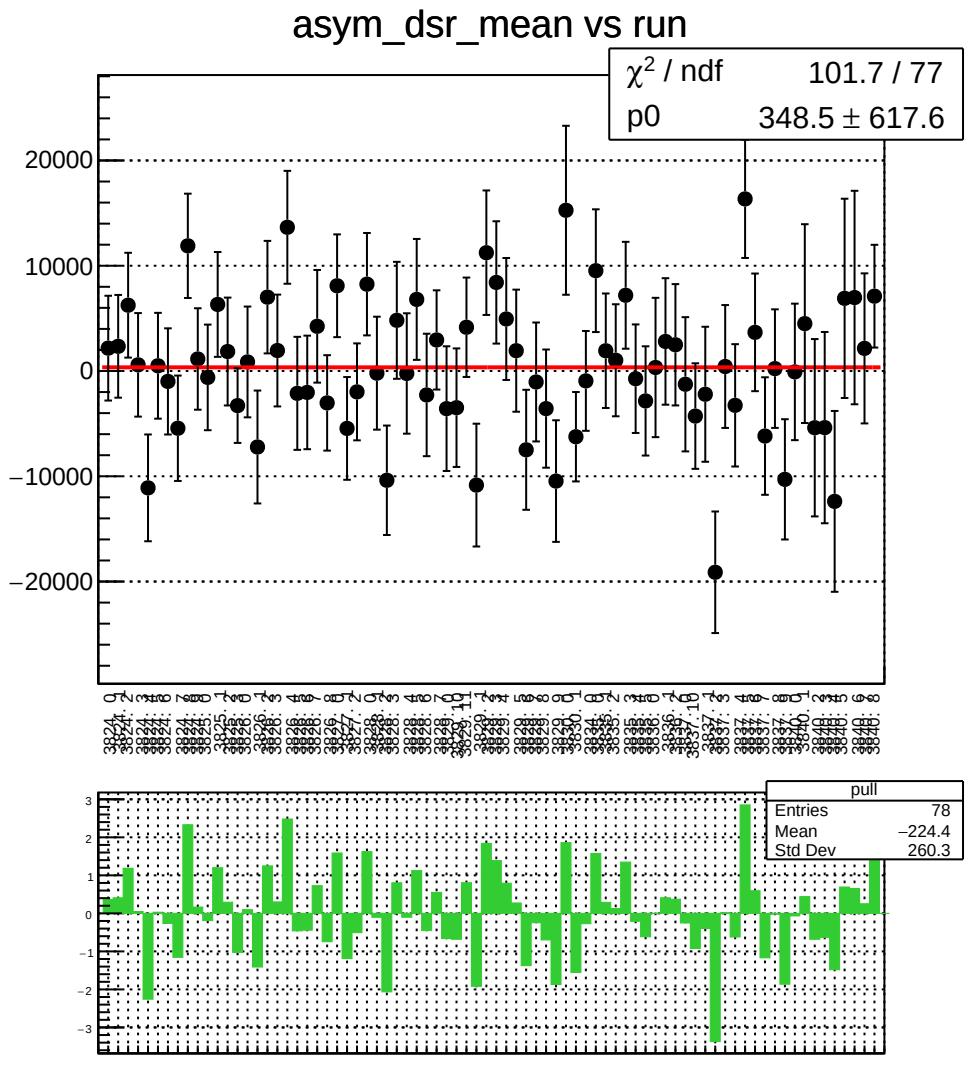

pull1D
Entries 78
Mean 0.02301
Std Dev 1.029

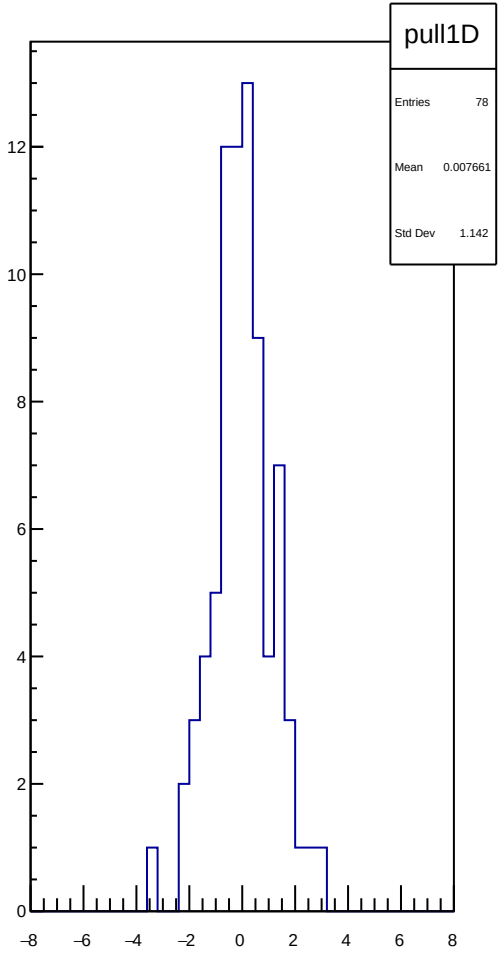

reg_asym_dsr_rms vs run
χ² / ndf 1694 / 77
p0 137.8 ± 0.1126
190
180
170
160
150
140
130

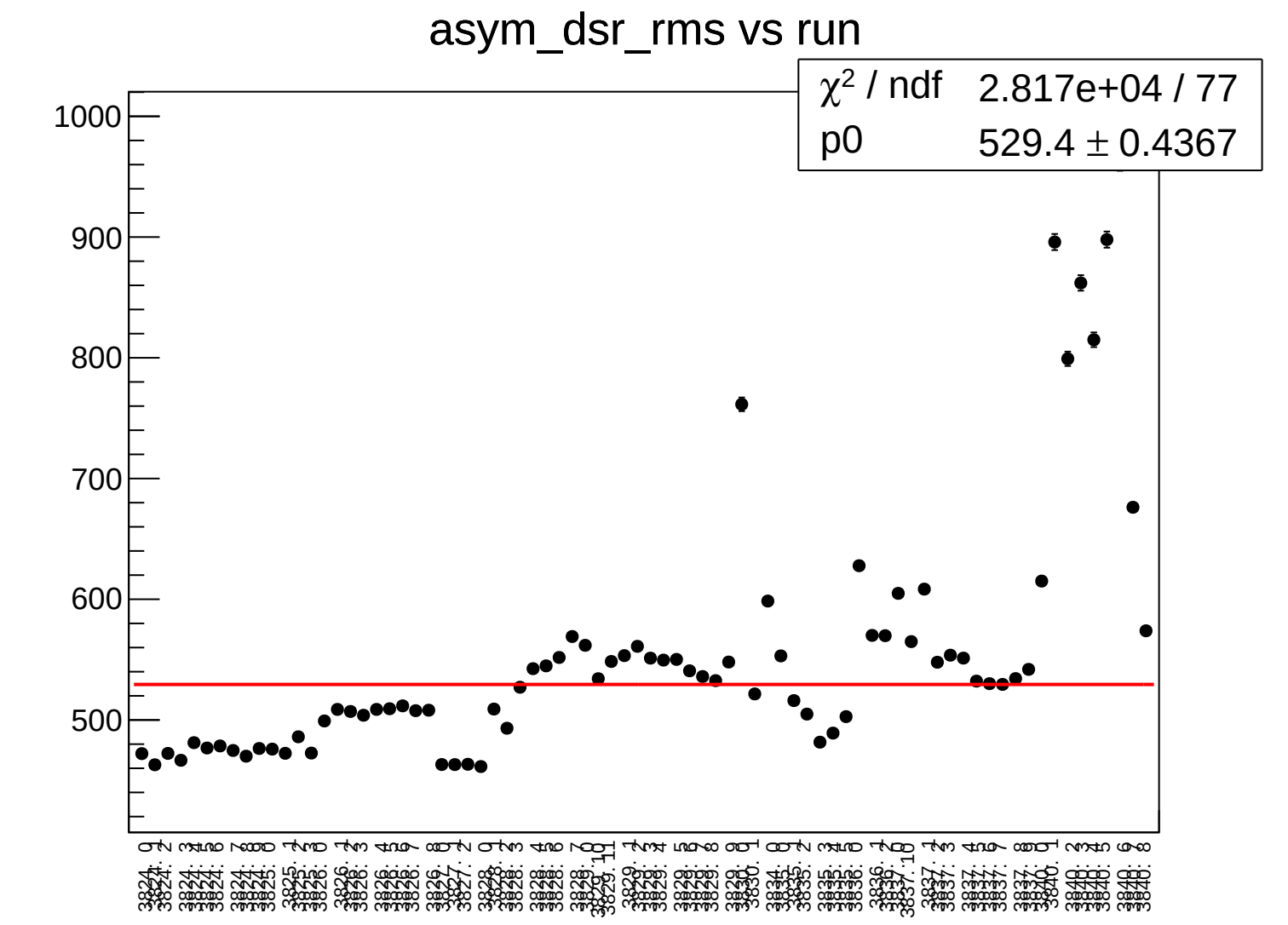

asym_dsr_correction_mean vs run
χ² / ndf 89.42 / 77
p0 −204.2 ± 595.4
20000
10000
0
−10000
−20000
pull
Entries 78
Mean −638.7
Std Dev 677.2
3
2
1
0
−1
−2

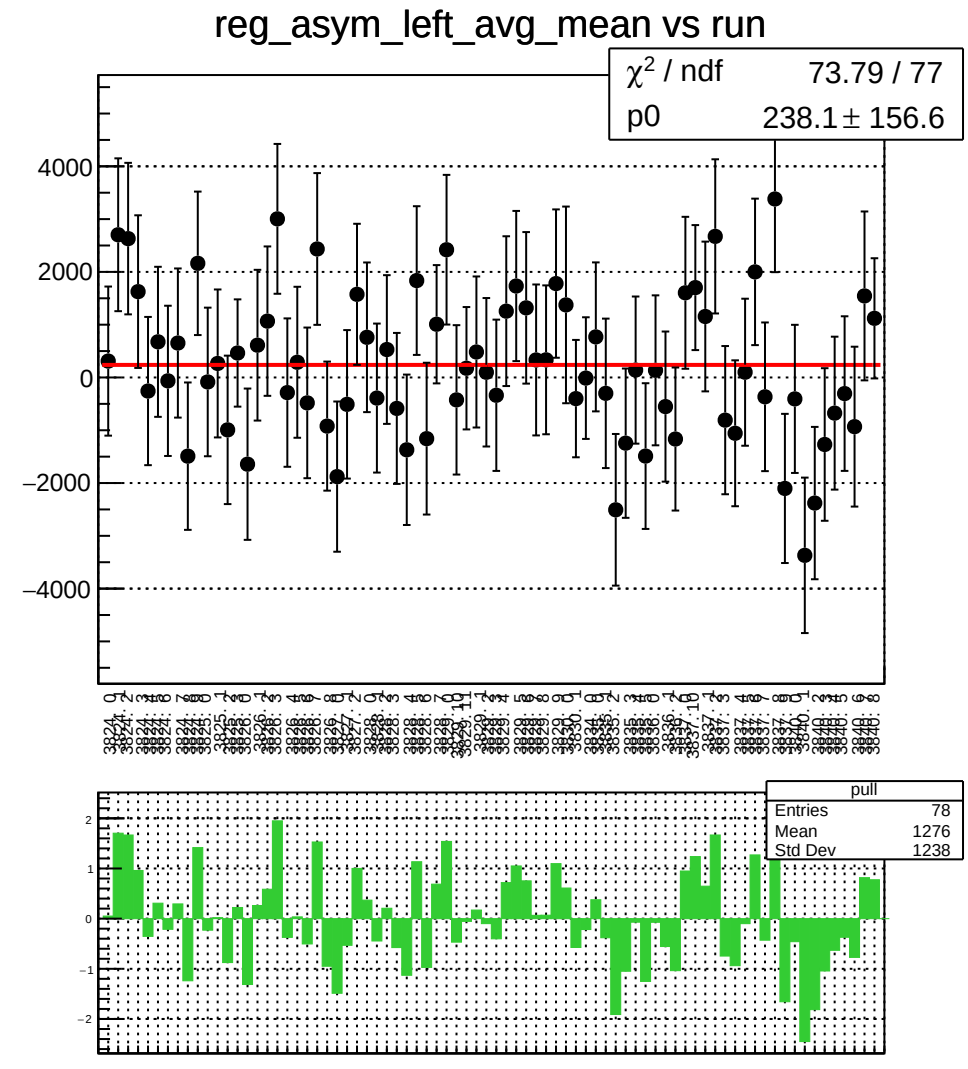

pull1D
Entries 78
Mean −0.002587
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

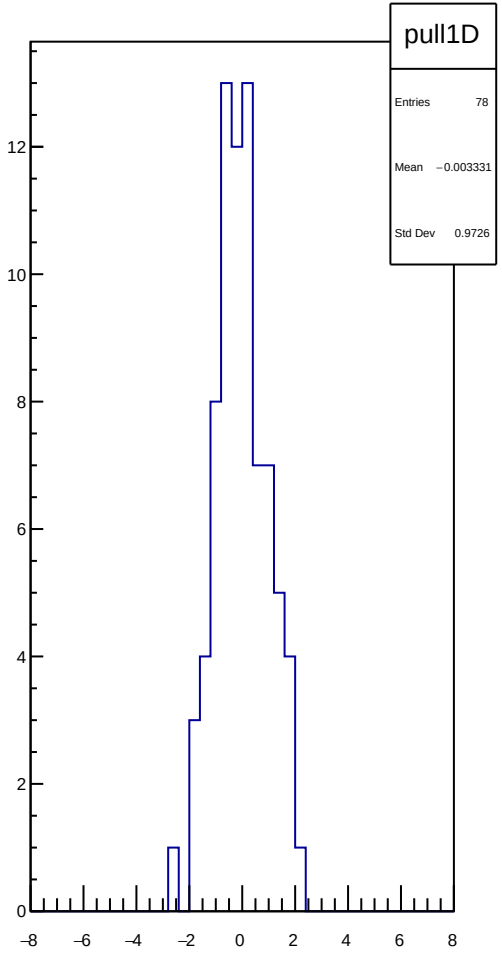

asym_dsr_correction_rms vs run
χ² / ndf 3.084e+04 / 77
p0 510 ± 0.421
1000
900
800
700
600
500
400

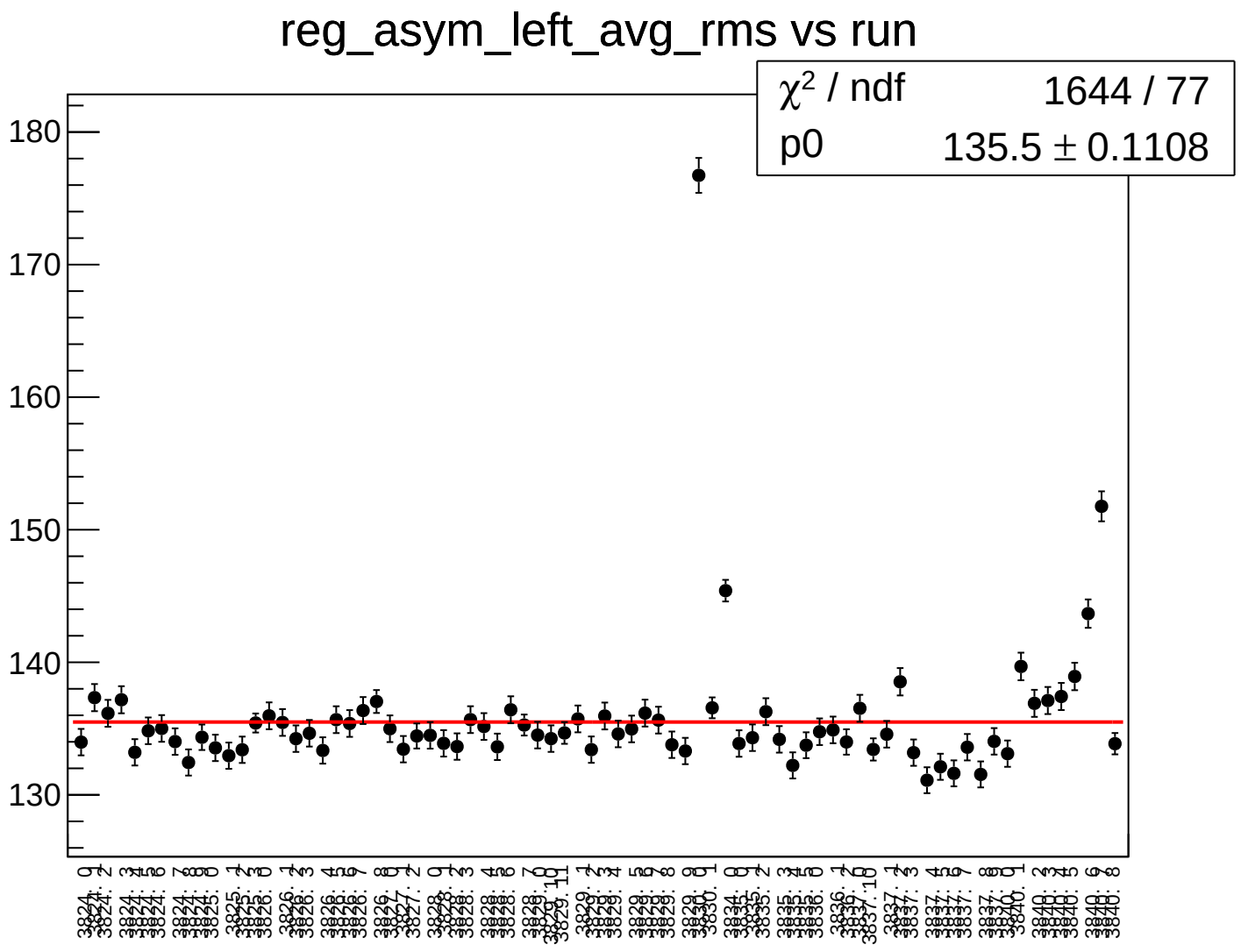

asym_dsr_mean vs run
χ^2 / ndf 101.7 / 77
p0 348.5 ± 617.6
20000
10000
0
−10000
−20000
pull
Entries 78
Mean −224.4
Std Dev 260.3
3
2
1
0
−1
−2
−3

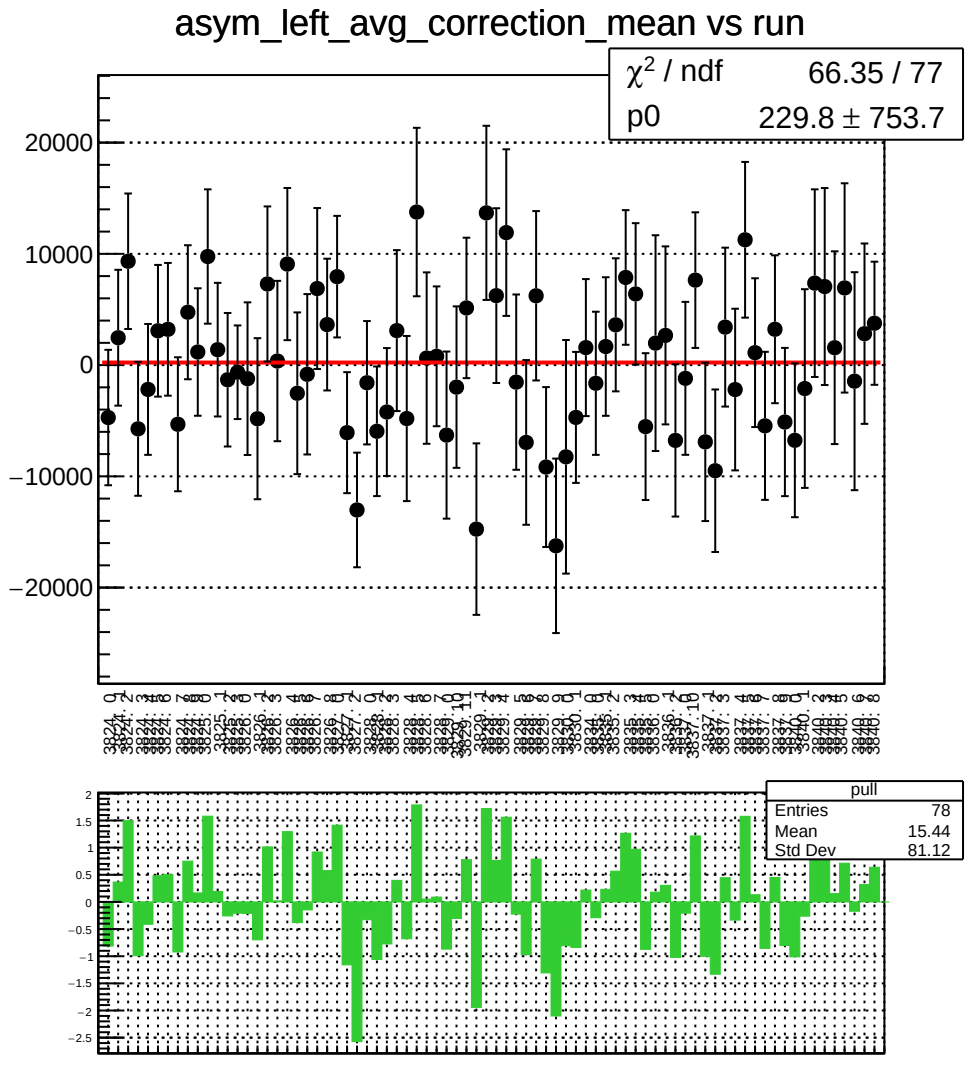

pull1D
Entries 78
Mean 0.007661
Std Dev 1.142
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

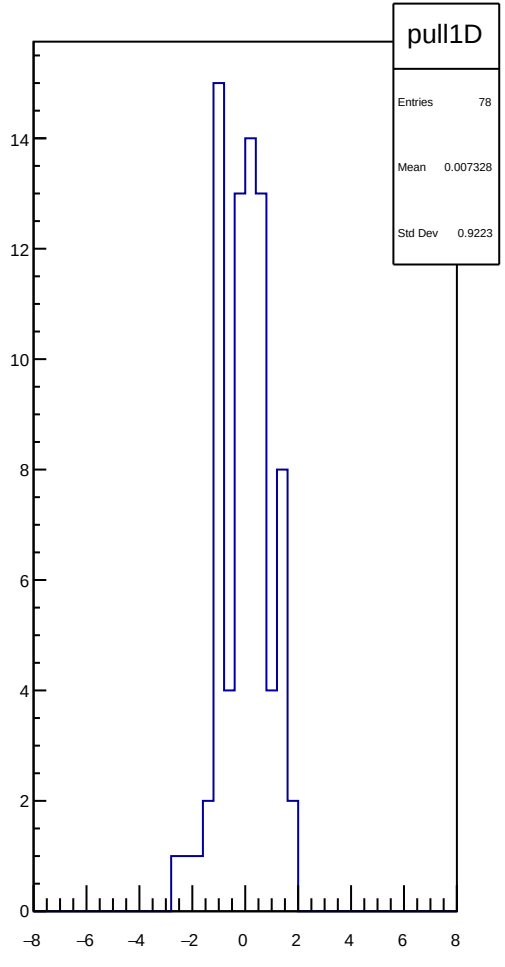

asym_dsr_rms vs run
χ² / ndf 2.817e+04 / 77
p0 529.4 ± 0.4367
1000
900
800
700
600
500

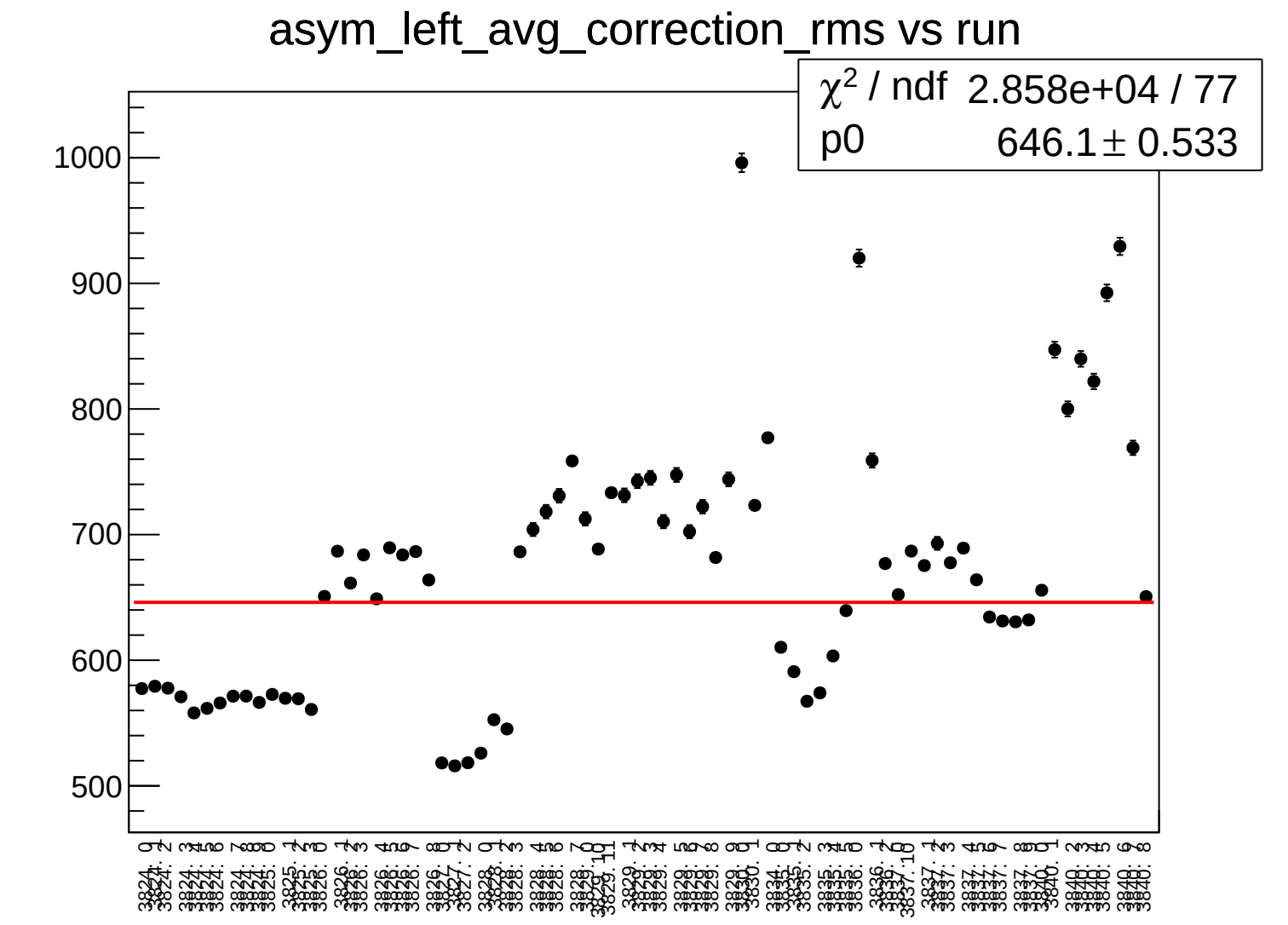

reg_asym_left_avg_mean vs run
χ² / ndf 73.79 / 77
p0 238.1 ± 156.6
4000
2000
0
−2000
−4000
pull
Entries 78
Mean 1276
Std Dev 1238
2
1
0
−1
−2

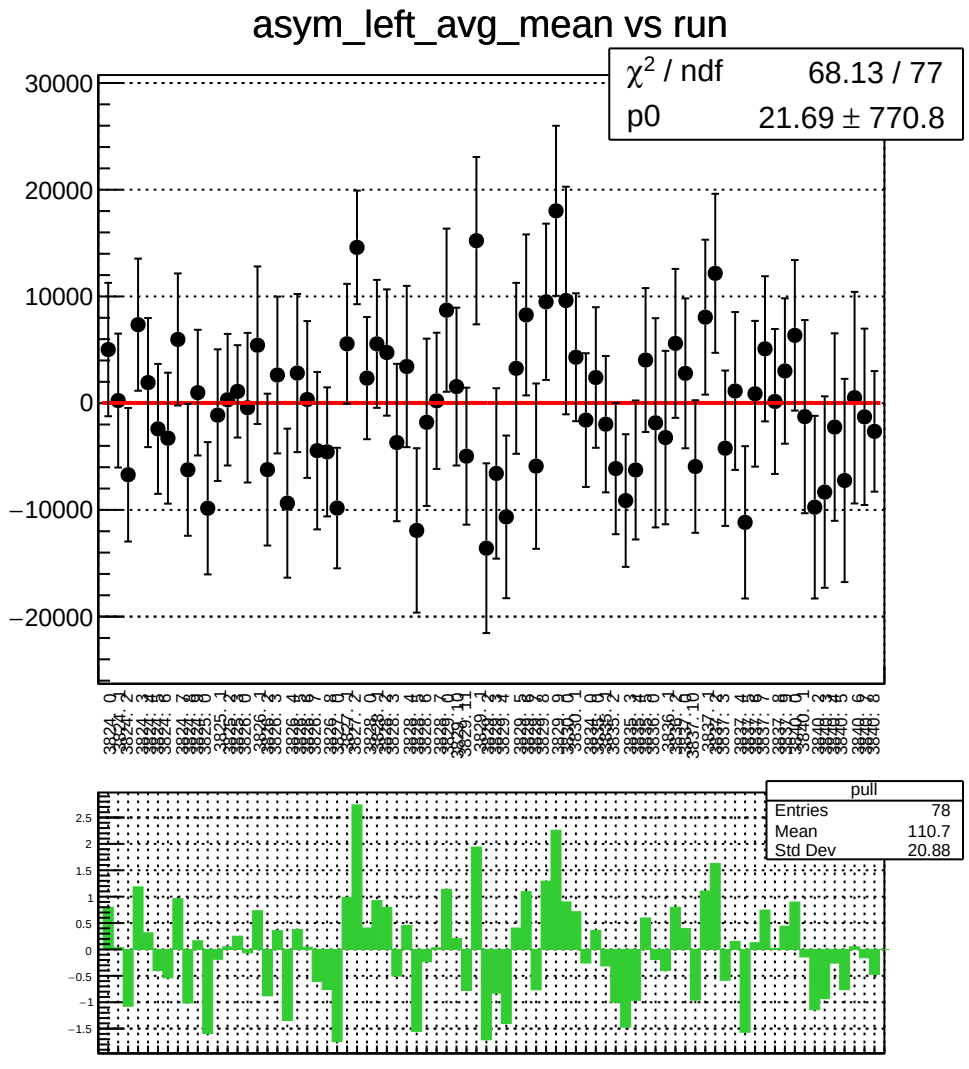

pull1D
Entries 78
Mean −0.003331
Std Dev 0.9726
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

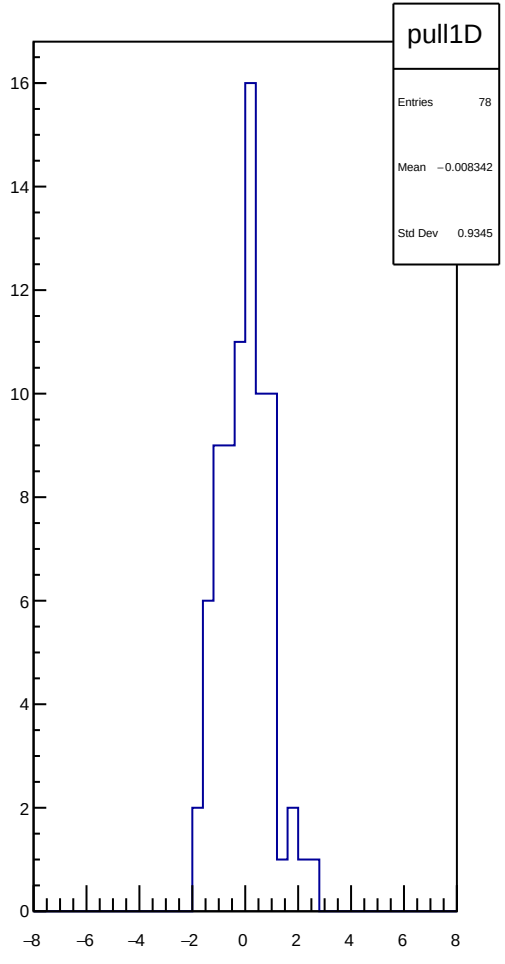

reg_asym_left_avg_rms vs run
χ² / ndf 1644 / 77
p0 135.5 ± 0.1108
180
170
160
150
140
130

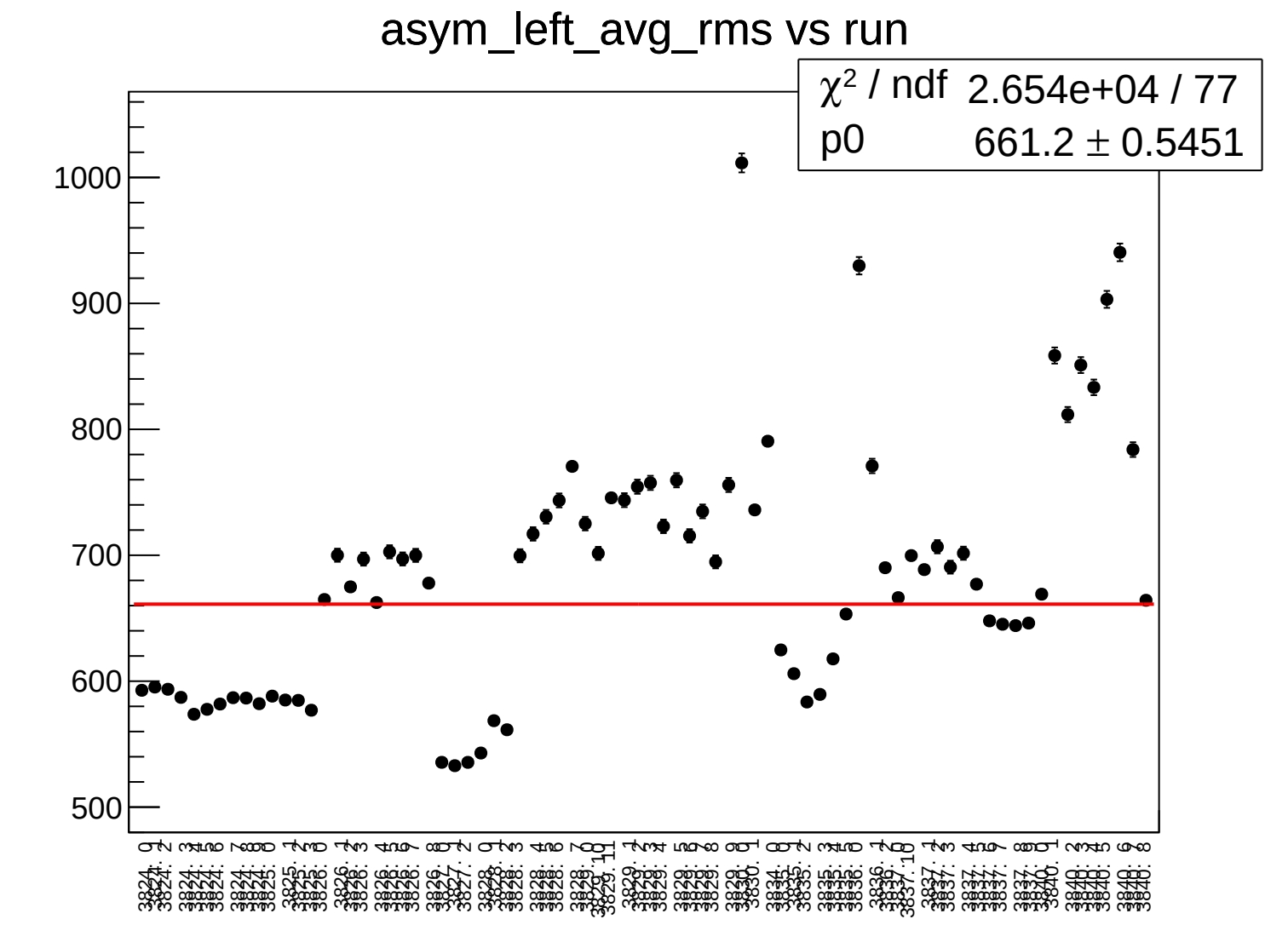

asym_left_avg_correction_mean vs run
χ² / ndf 66.35 / 77
p0 229.8 ± 753.7
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 15.44
Std Dev 81.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

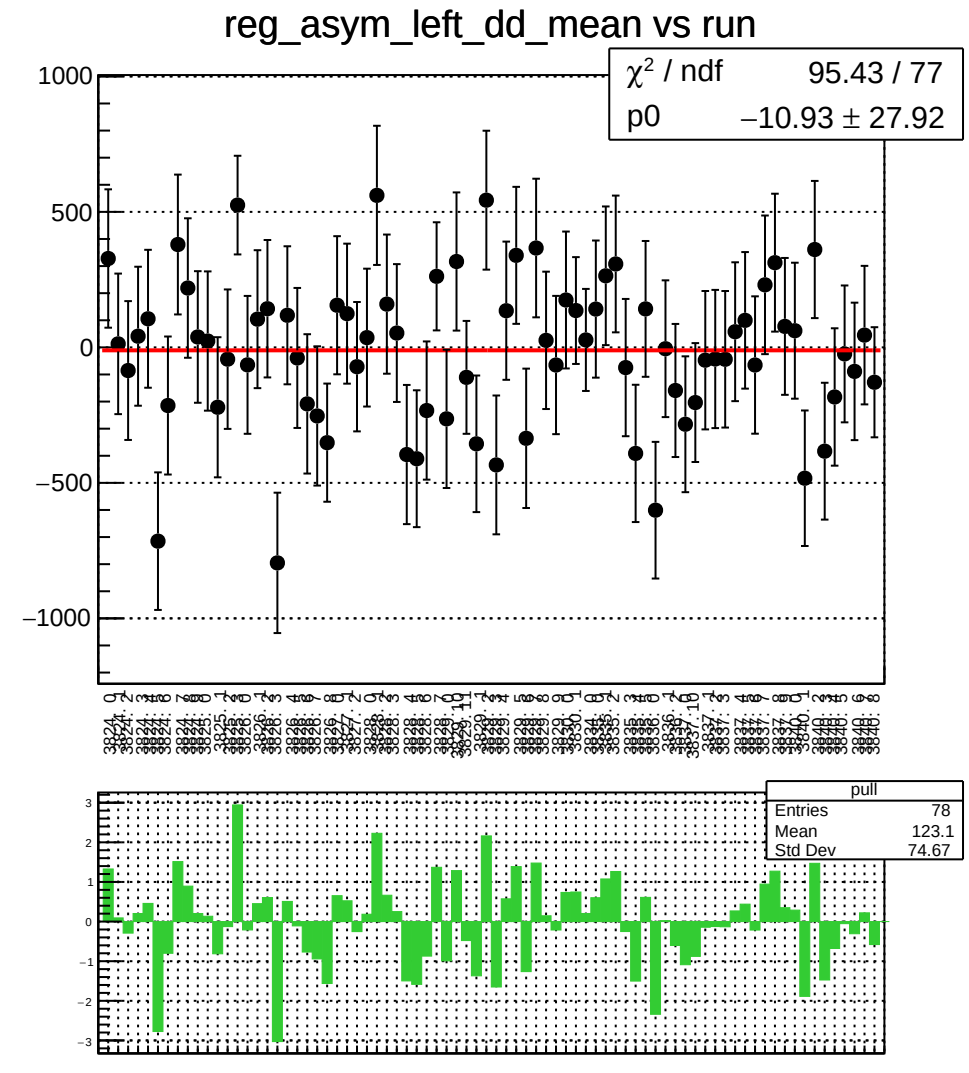

pull1D
Entries 78
Mean 0.007328
Std Dev 0.9223
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

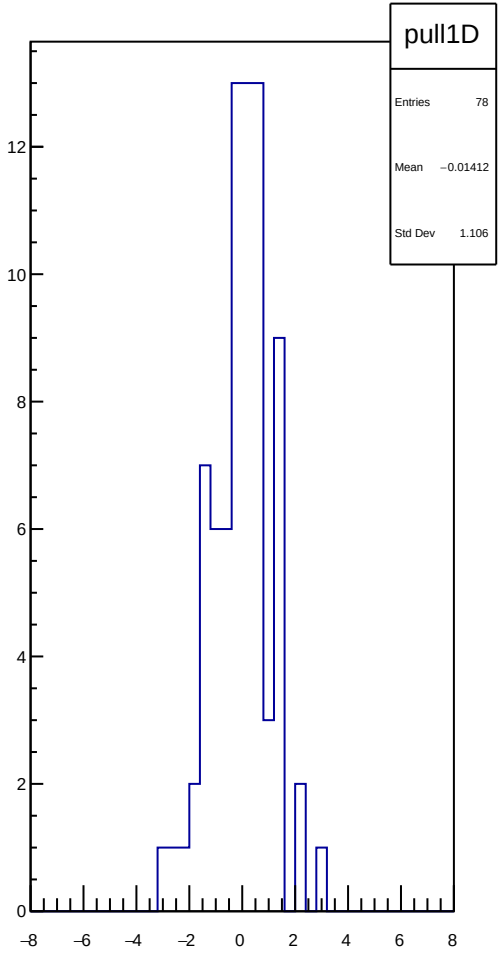

asym_left_avg_correction_rms vs run
χ² / ndf 2.858e+04 / 77
p0 646.1 ± 0.533
1000
900
800
700
600
500

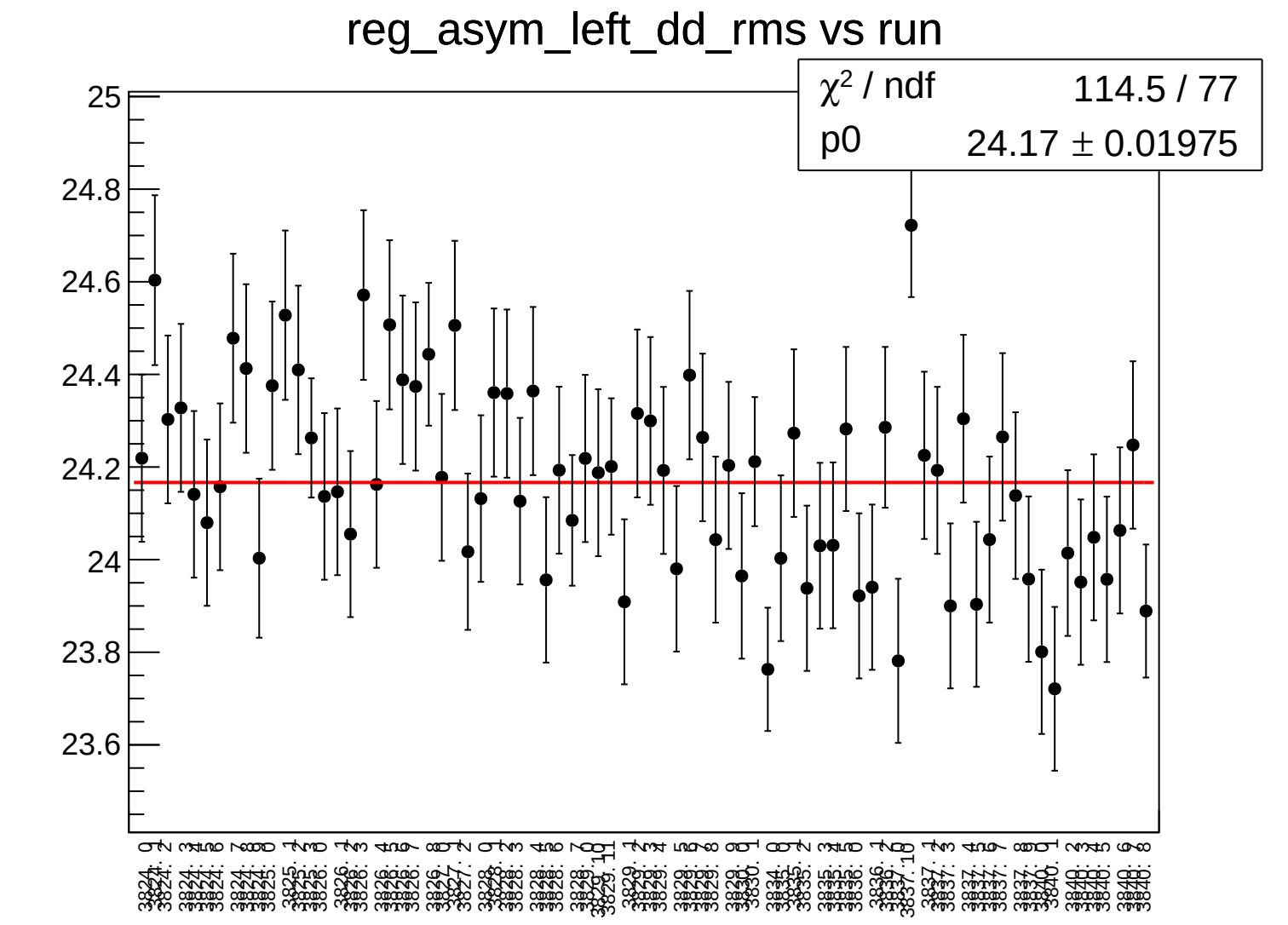

asym_left_avg_mean vs run
χ² / ndf 68.13 / 77
p0 21.69 ± 770.8
30000
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 110.7
Std Dev 20.88
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

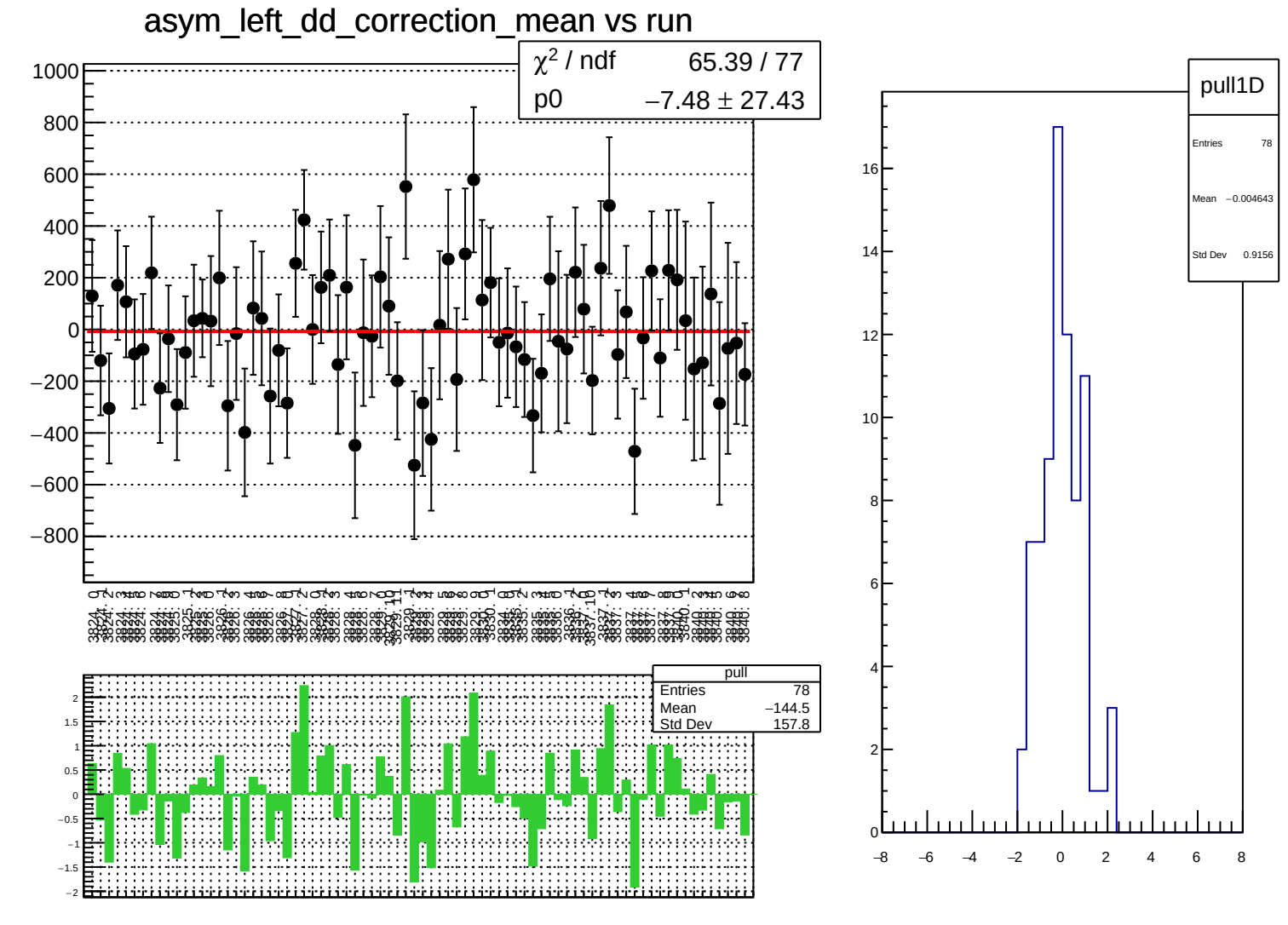

pull1D
Entries 78
Mean −0.008342
Std Dev 0.9345
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

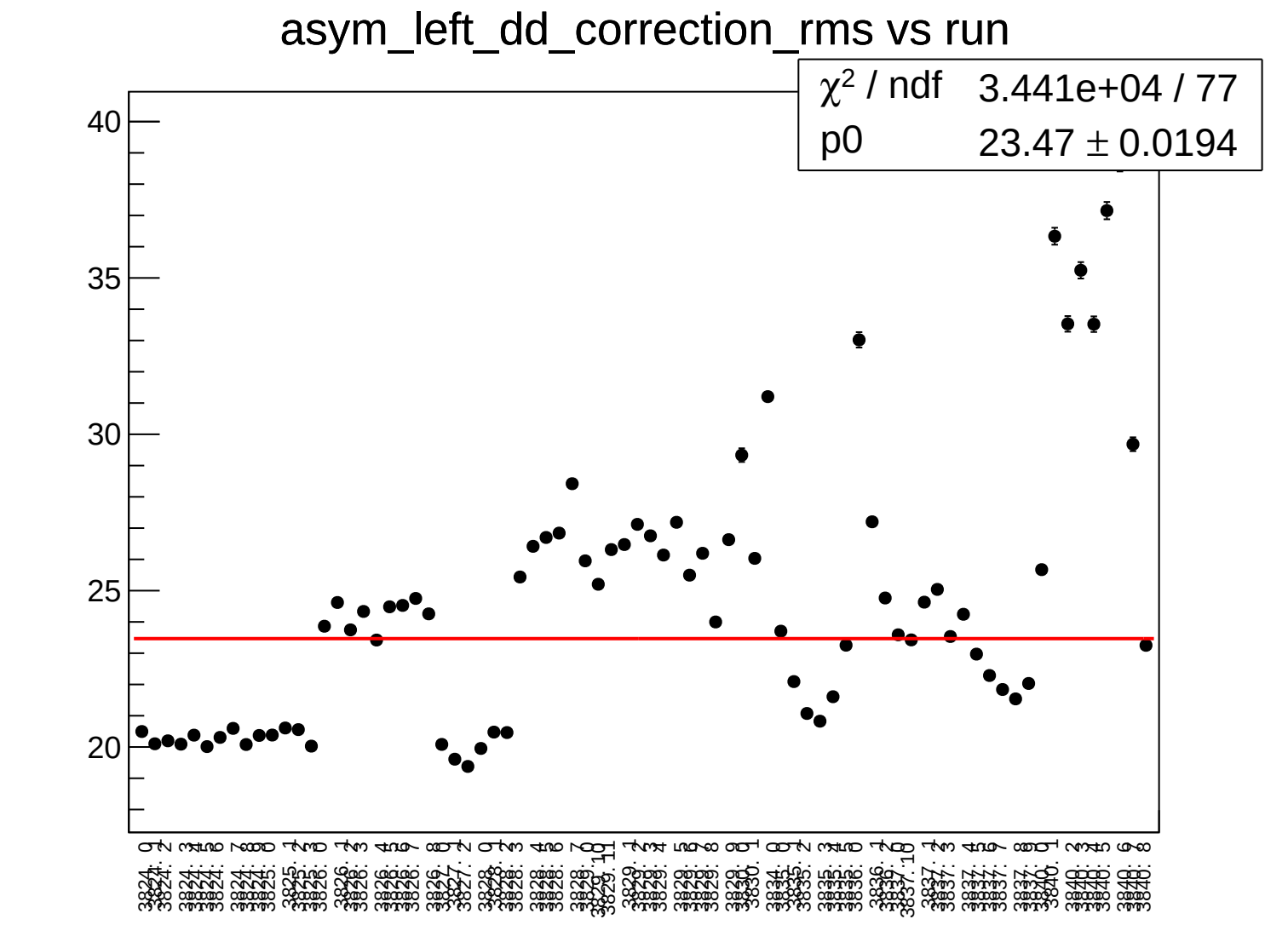

asym_left_avg_rms vs run
χ² / ndf 2.654e+04 / 77
p0 661.2 ± 0.5451
1000
900
800
700
600
500

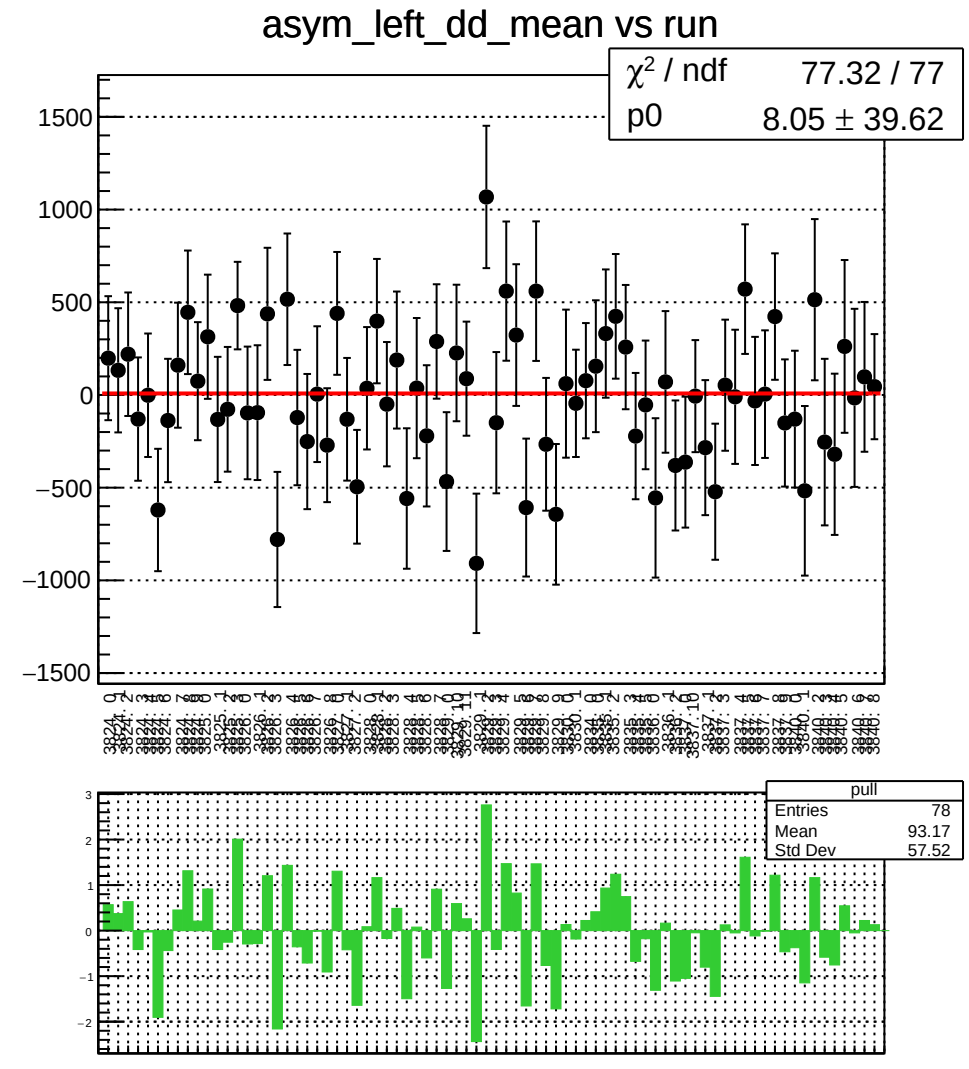

reg_asym_left_dd_mean vs run
χ² / ndf 95.43 / 77
p0 −10.93 ± 27.92
1000
500
0
−500
−1000
pull
Entries 78
Mean 123.1
Std Dev 74.67
3
2
1
0
−1
−2
−3

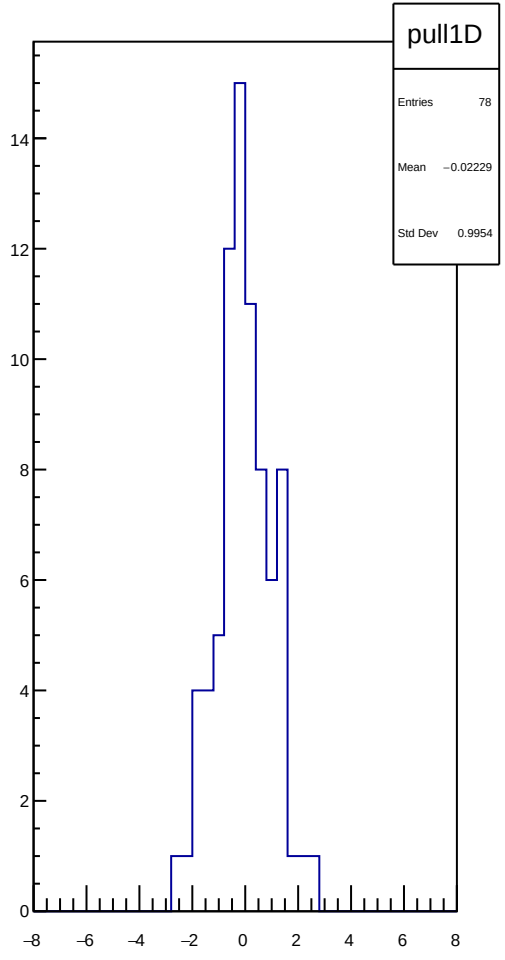

pull1D
Entries 78
Mean −0.01412
Std Dev 1.106
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

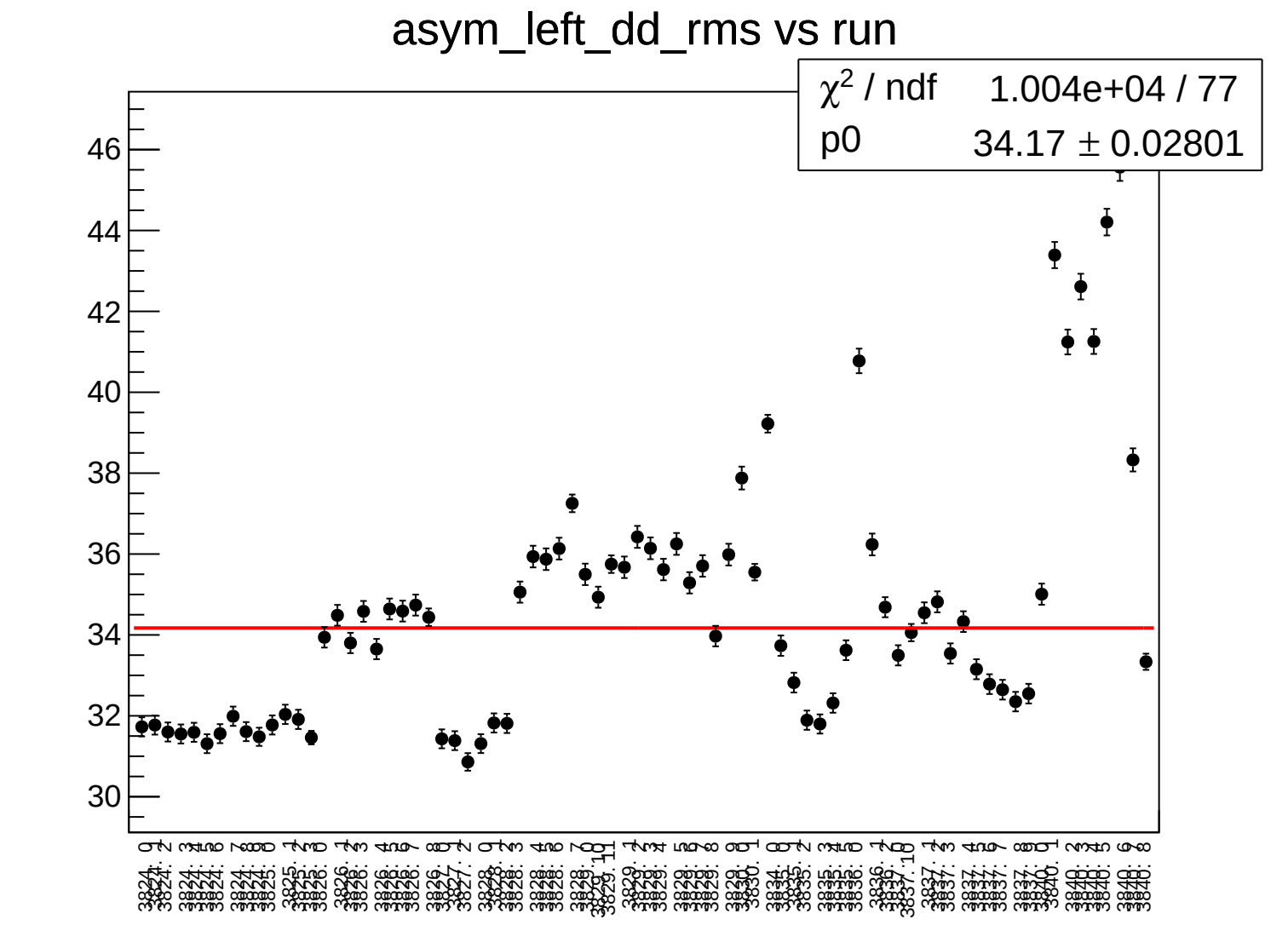

reg_asym_left_dd_rms vs run
χ² / ndf 114.5 / 77
p0 24.17 ± 0.01975
25
24.8
24.6
24.4
24.2
24
23.8
23.6

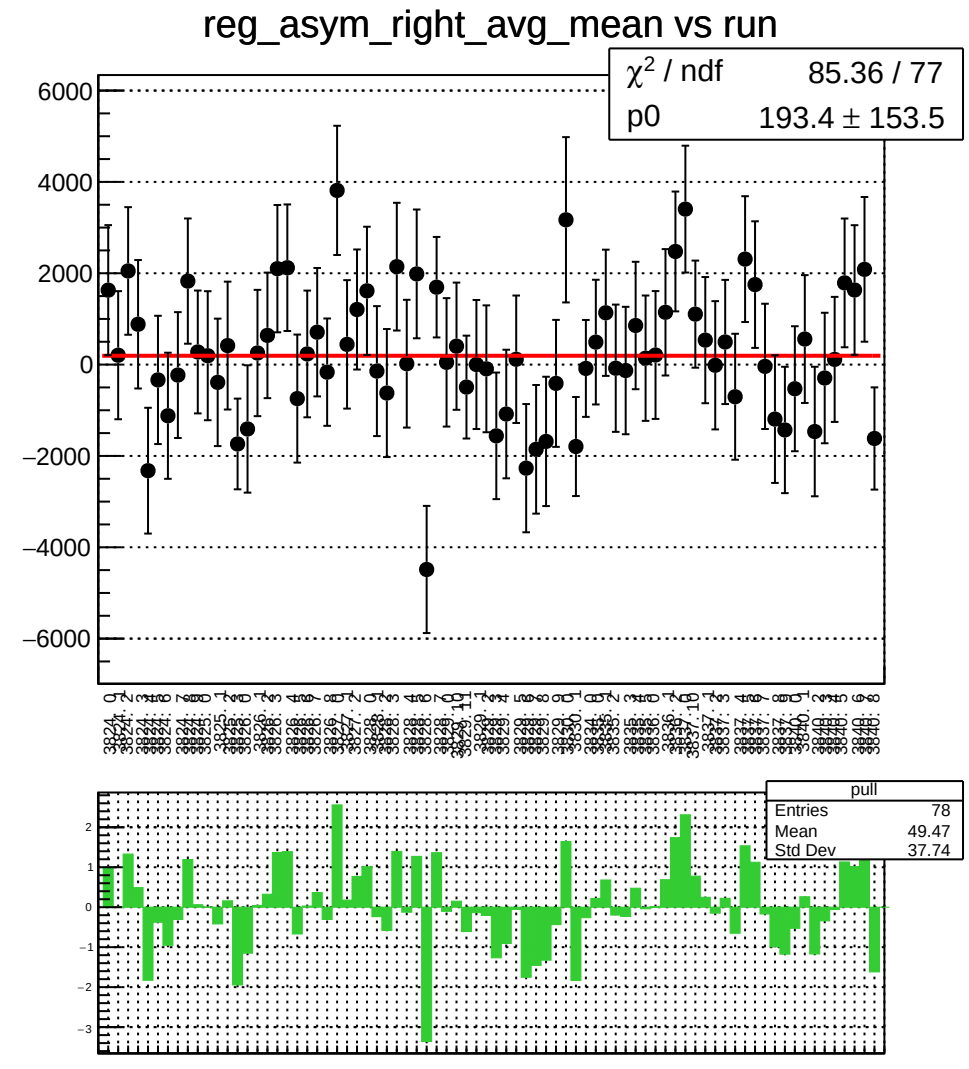

asym_left_dd_correction_mean vs run
χ² / ndf 65.39 / 77
p0 −7.48 ± 27.43
pull
Entries 78
Mean −144.5
Std Dev 157.8
pull1D
Entries 78
Mean −0.004643
Std Dev 0.9156

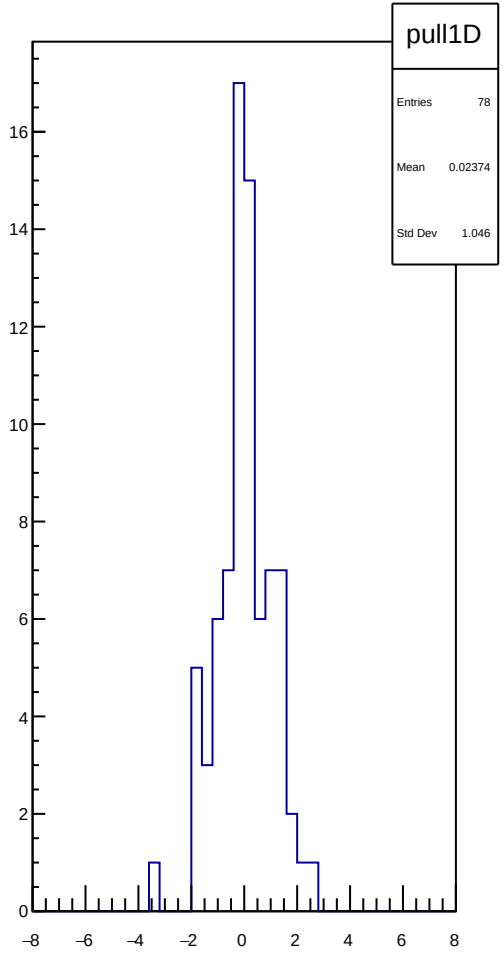

asym_left_dd_correction_rms vs run
χ² / ndf 3.441e+04 / 77
p0 23.47 ± 0.0194
40
35
30
25
20

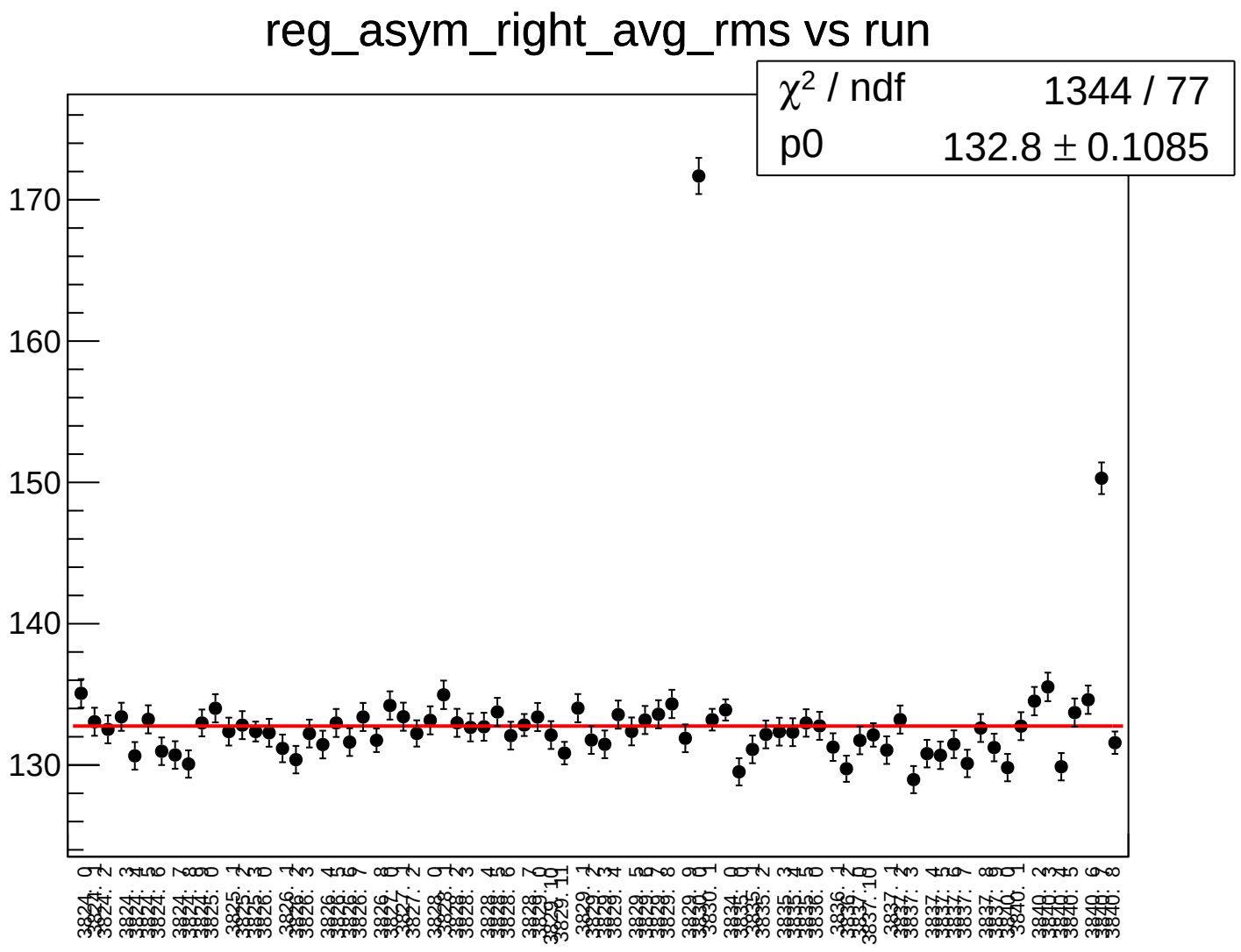

asym_left_dd_mean vs run
χ² / ndf 77.32 / 77
p0 8.05 ± 39.62
pull
Entries 78
Mean 93.17
Std Dev 57.52

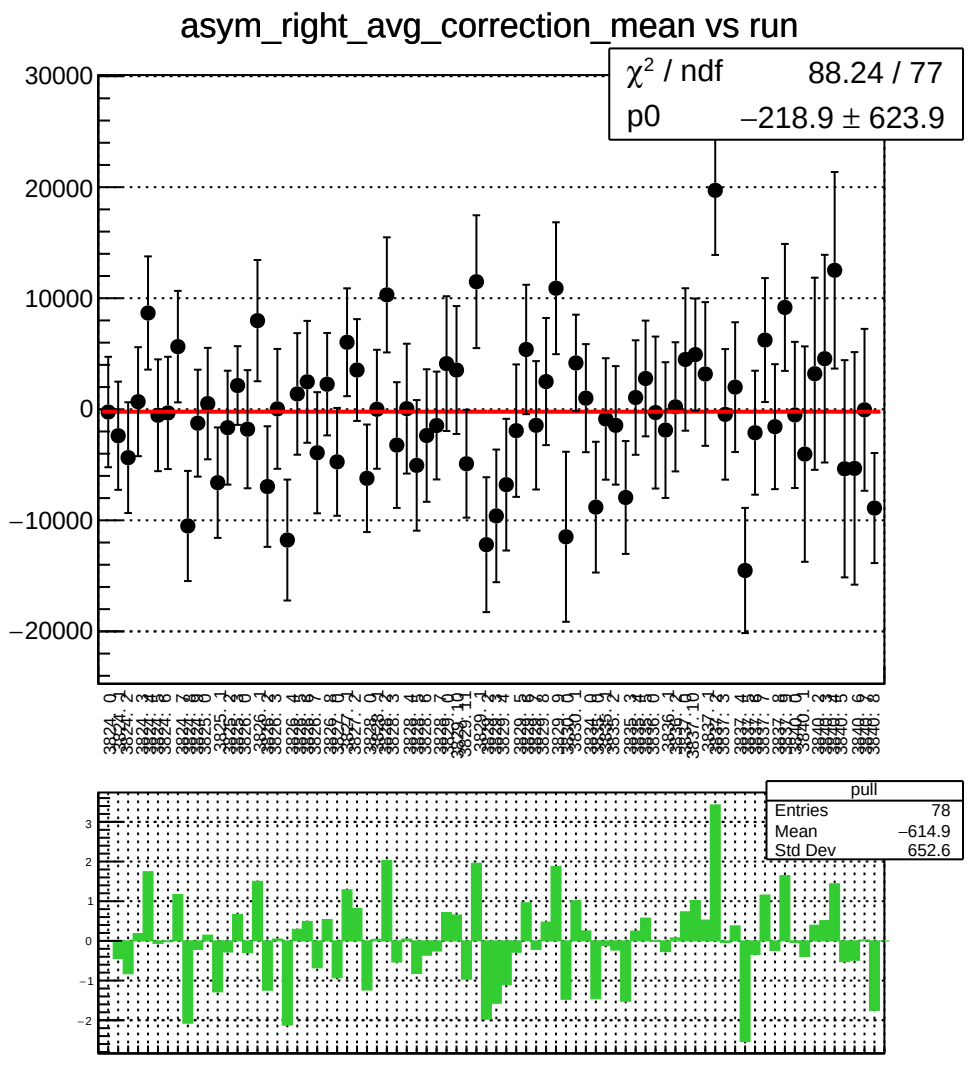

pull1D
Entries 78
Mean −0.02229
Std Dev 0.9954

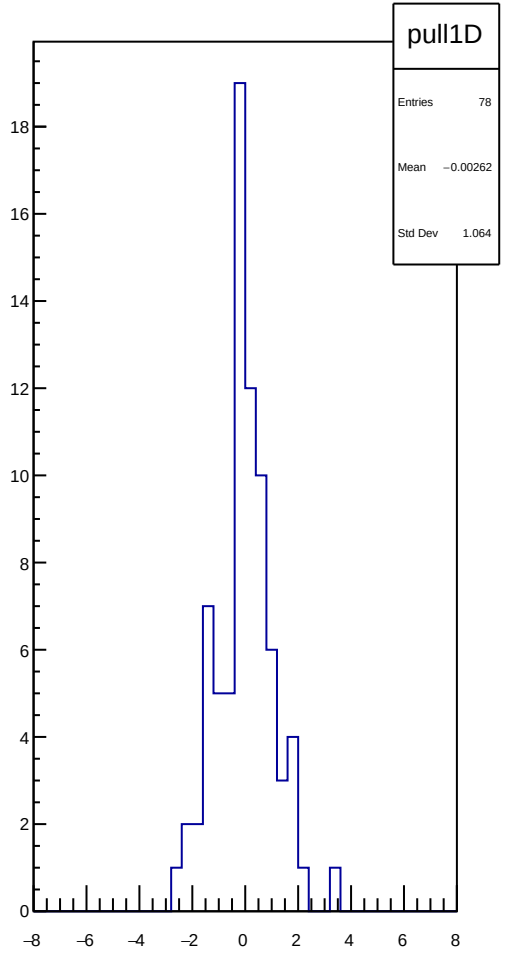

asym_left_dd_rms vs run
χ^2 / ndf 1.004e+04 / 77
p0 34.17 ± 0.02801
46
44
42
40
38
36
34
32
30

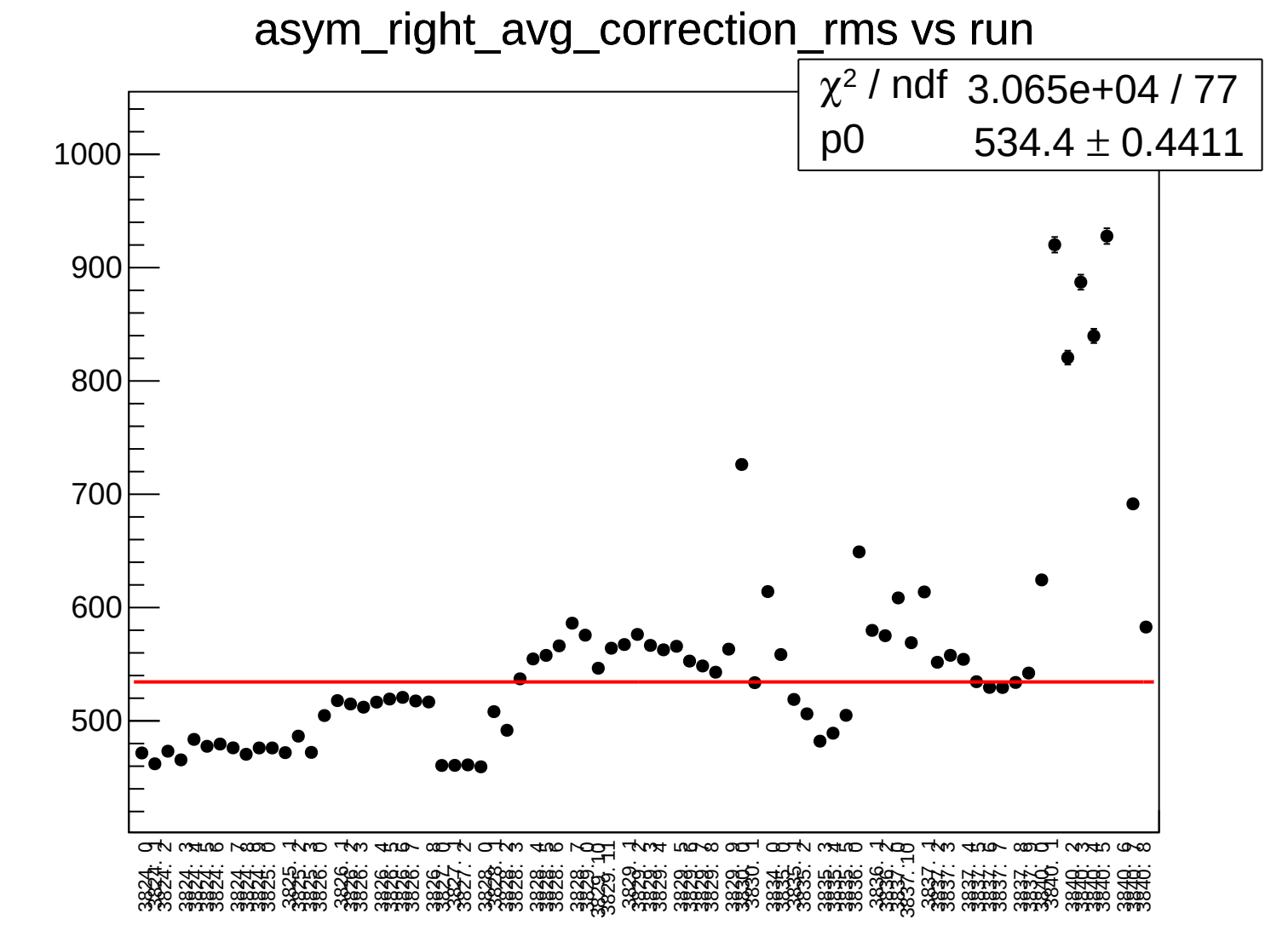

reg_asym_right_avg_mean vs run
χ² / ndf 85.36 / 77
p0 193.4 ± 153.5
pull
Entries 78
Mean 49.47
Std Dev 37.74

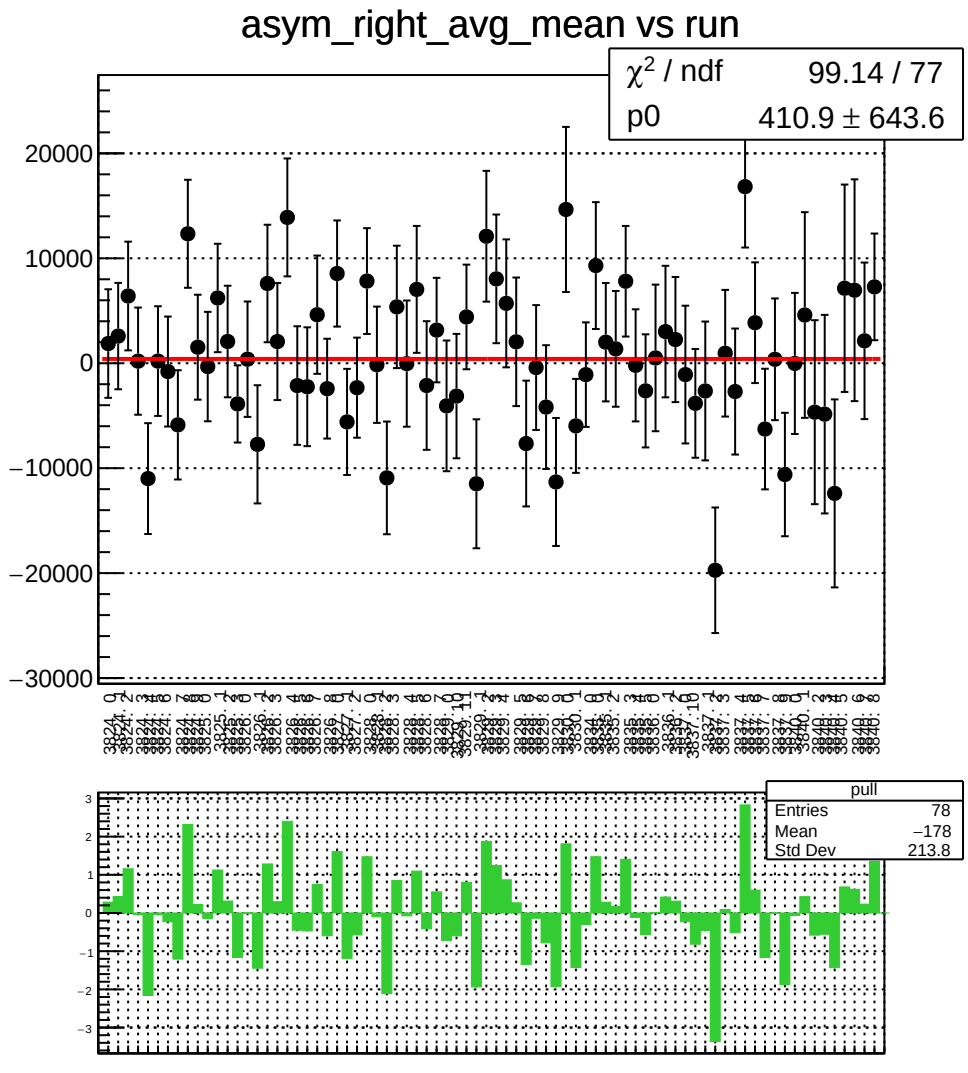

pull1D
Entries 78
Mean 0.02374
Std Dev 1.046

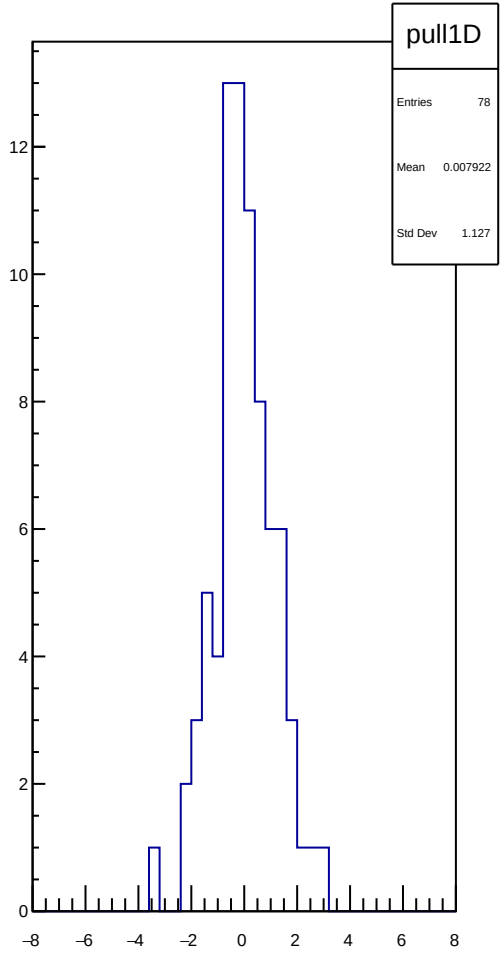

reg_asym_right_avg_rms vs run
χ² / ndf 1344 / 77
p0 132.8 ± 0.1085
170
160
150
140
130

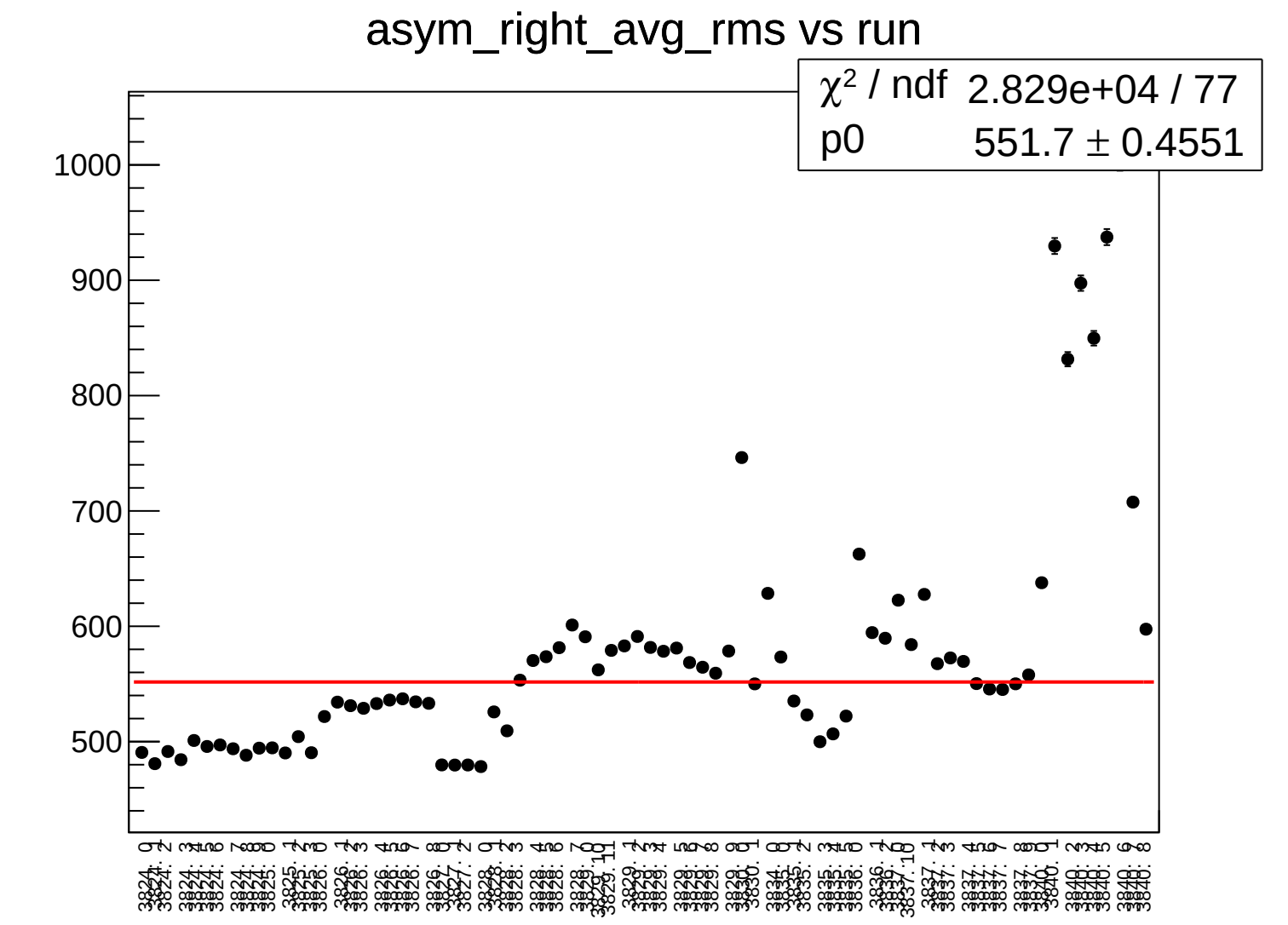

asym_right_avg_correction_mean vs run
χ² / ndf 88.24 / 77
p0 −218.9 ± 623.9
pull
Entries 78
Mean −614.9
Std Dev 652.6

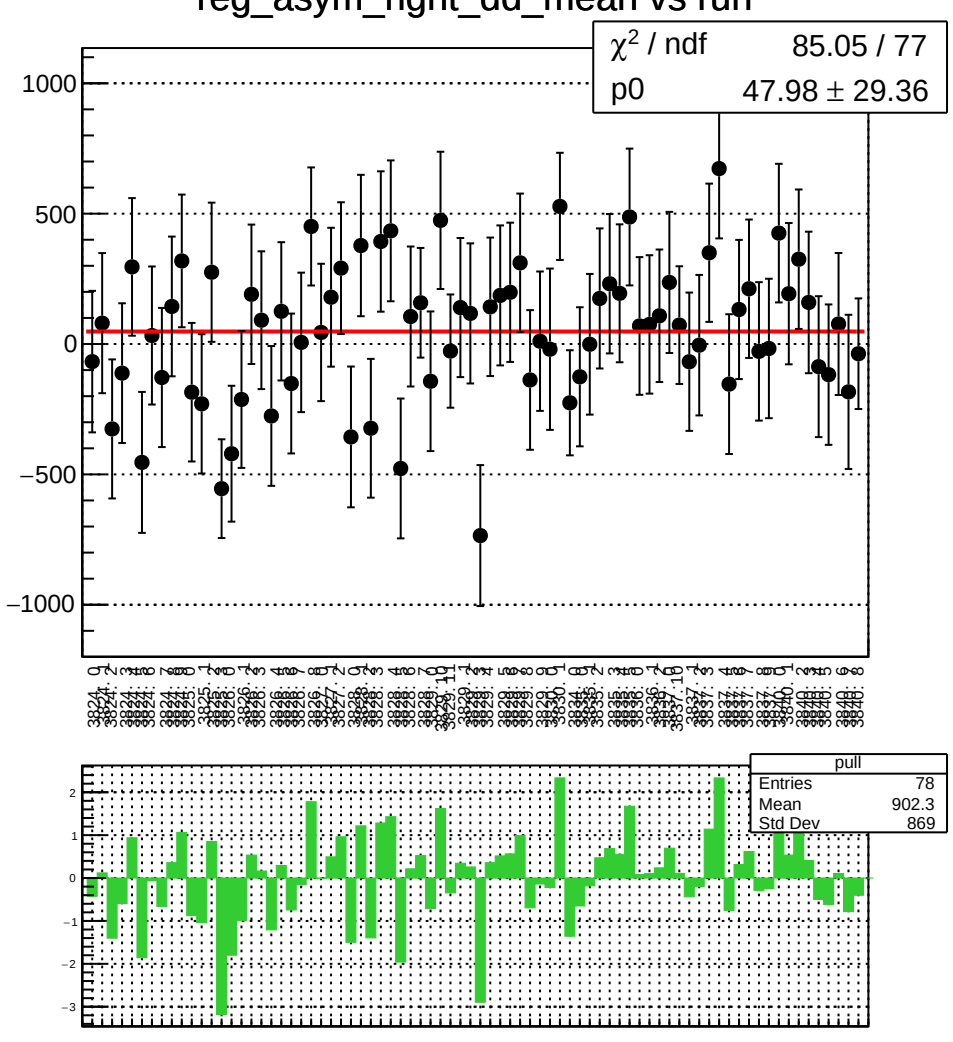

pull1D
Entries 78
Mean −0.00262
Std Dev 1.064

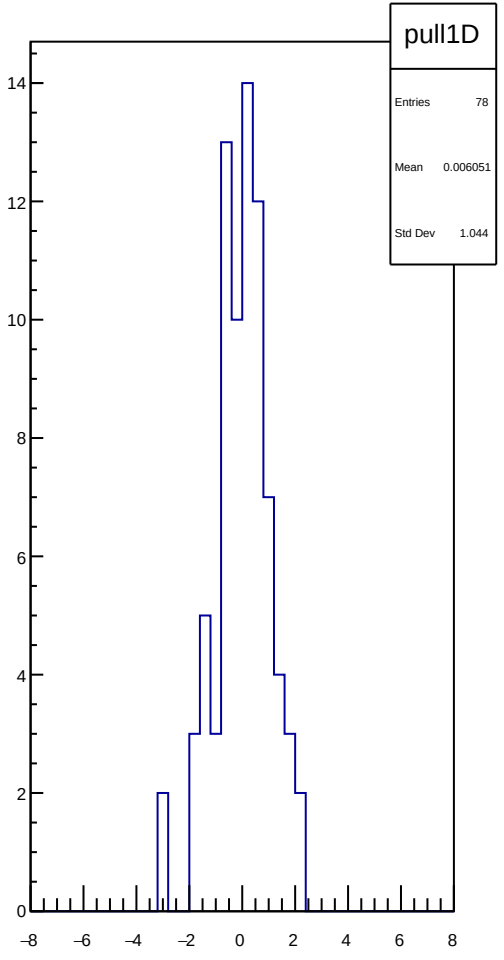

asym_right_avg_correction_rms vs run
χ² / ndf 3.065e+04 / 77
p0 534.4 ± 0.4411
1000
900
800
700
600
500

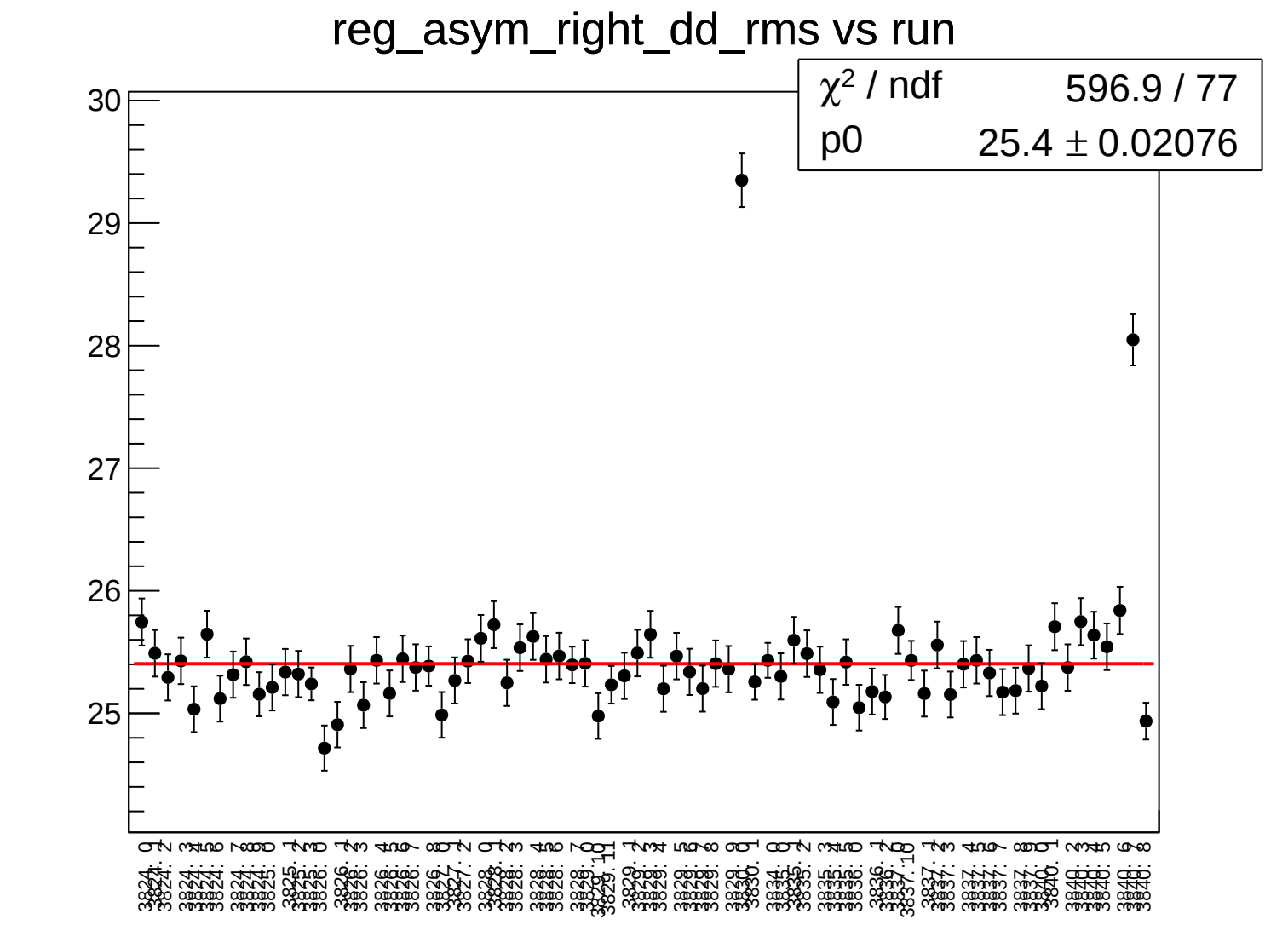

asym_right_avg_mean vs run
χ² / ndf 99.14 / 77
p0 410.9 ± 643.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean −178
Std Dev 213.8
3
2
1
0
−1
−2
−3

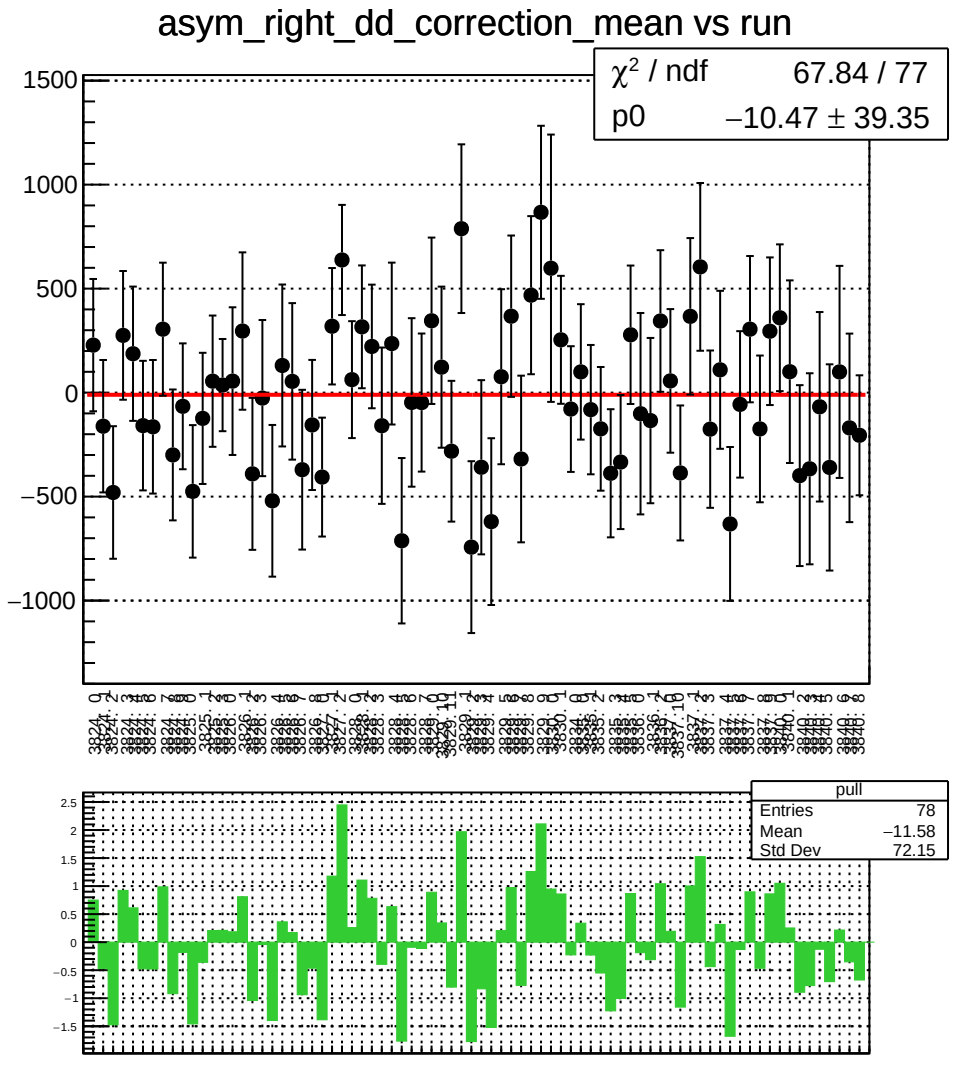

pull1D
Entries 78
Mean 0.007922
Std Dev 1.127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

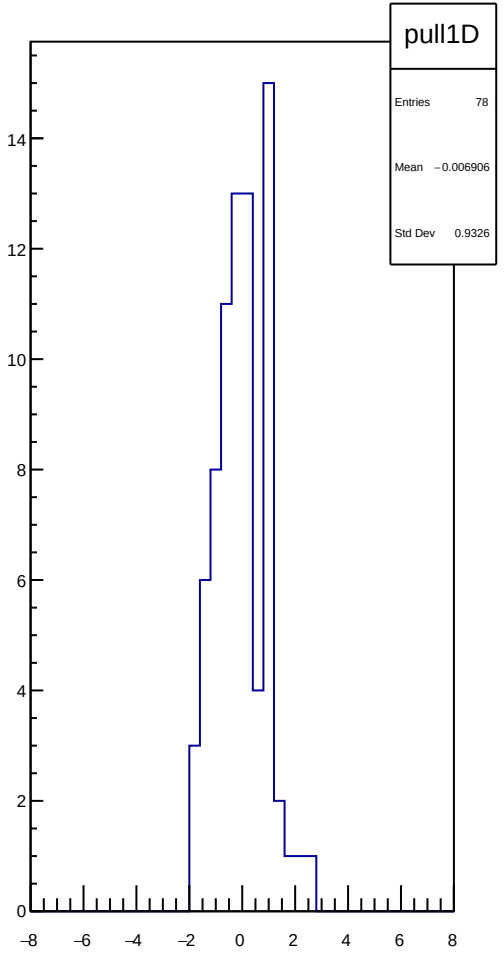

asym_right_avg_rms vs run
χ² / ndf 2.829e+04 / 77
p0 551.7 ± 0.4551
1000
900
800
700
600
500

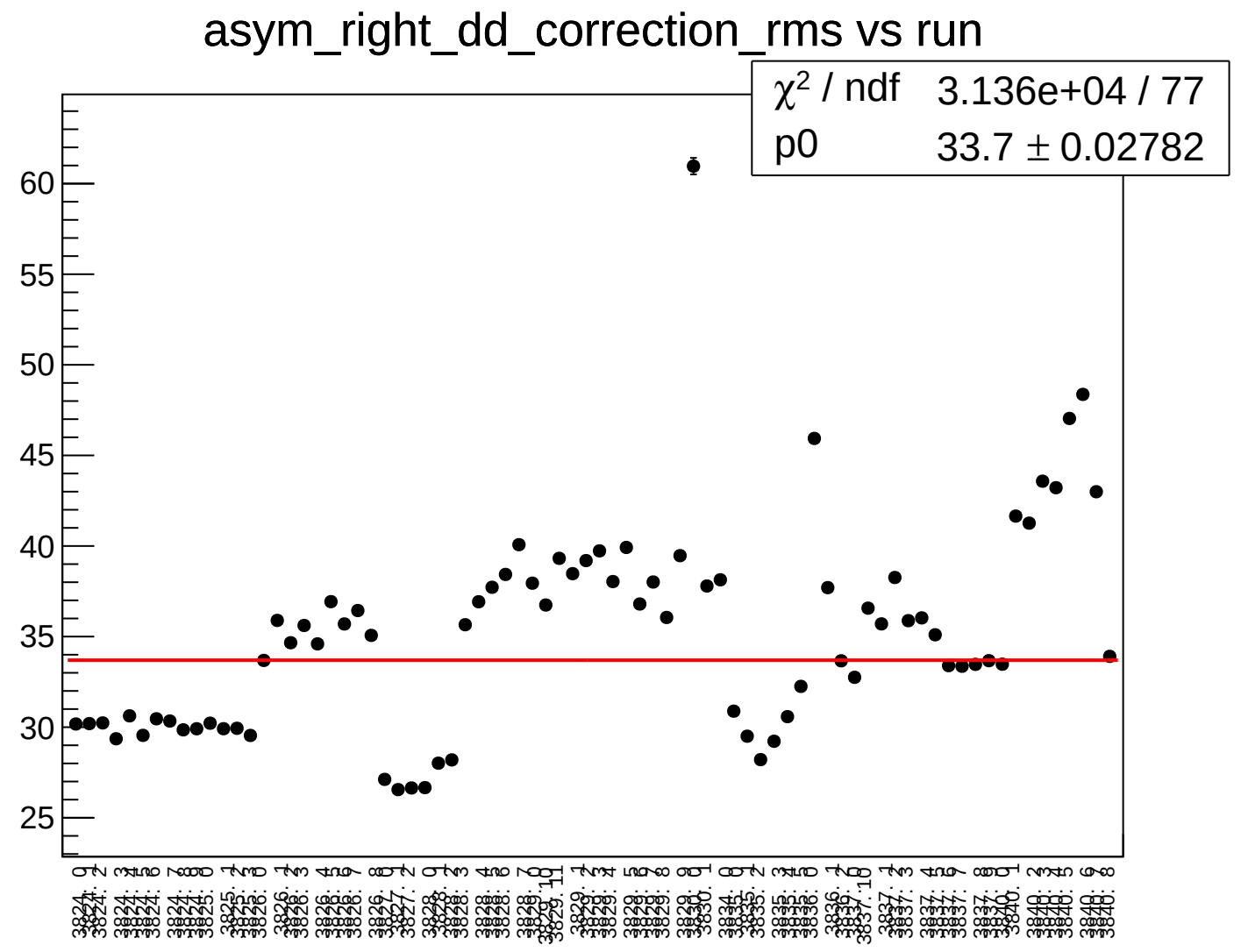

reg_asym_right_dd_mean vs run
χ² / ndf 85.05 / 77
p0 47.98 ± 29.36
pull
Entries 78
Mean 902.3
Std Dev 869

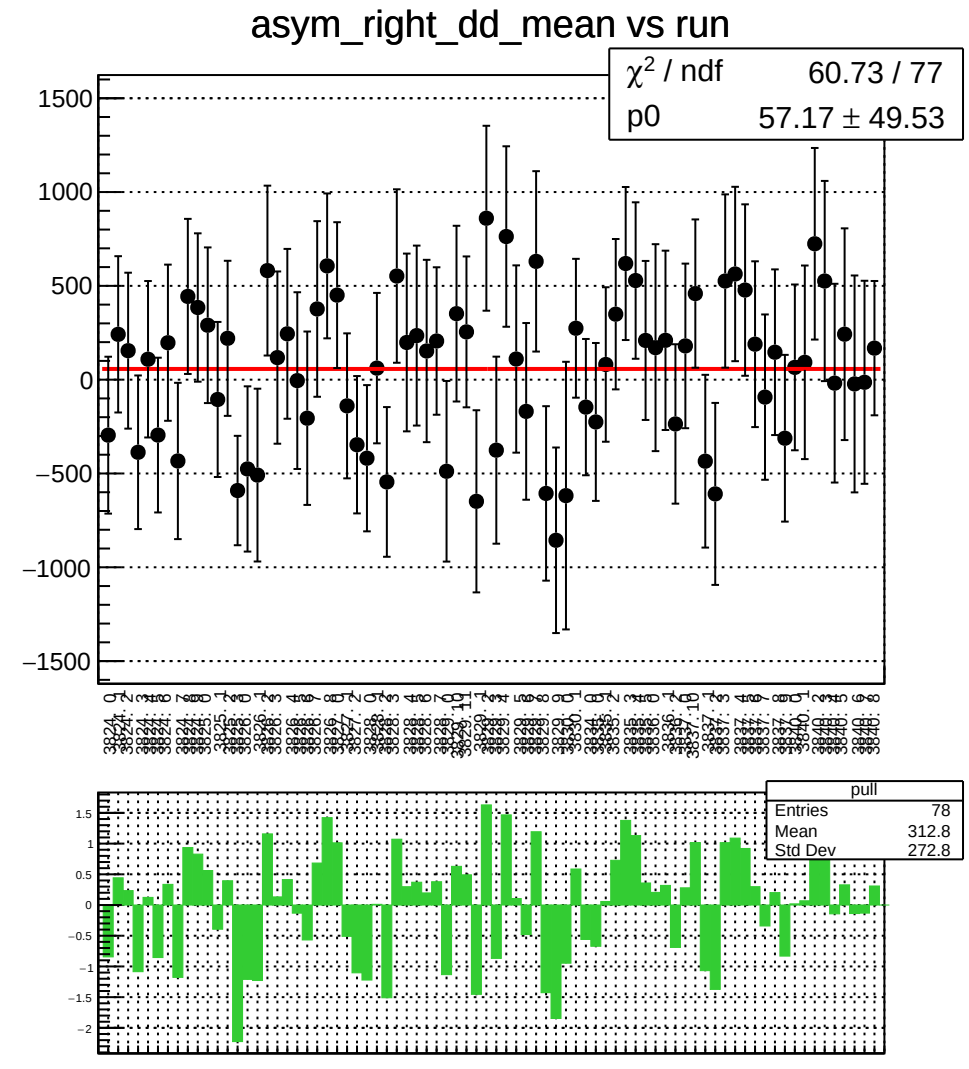

pull1D
Entries 78
Mean 0.006051
Std Dev 1.044

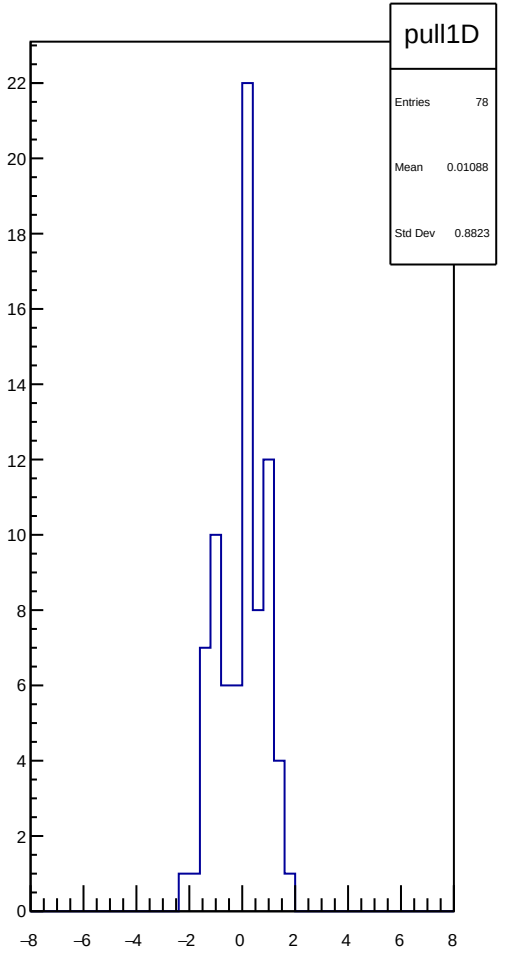

reg_asym_right_dd_rms vs run
χ² / ndf 596.9 / 77
p0 25.4 ± 0.02076
30
29
28
27
26
25

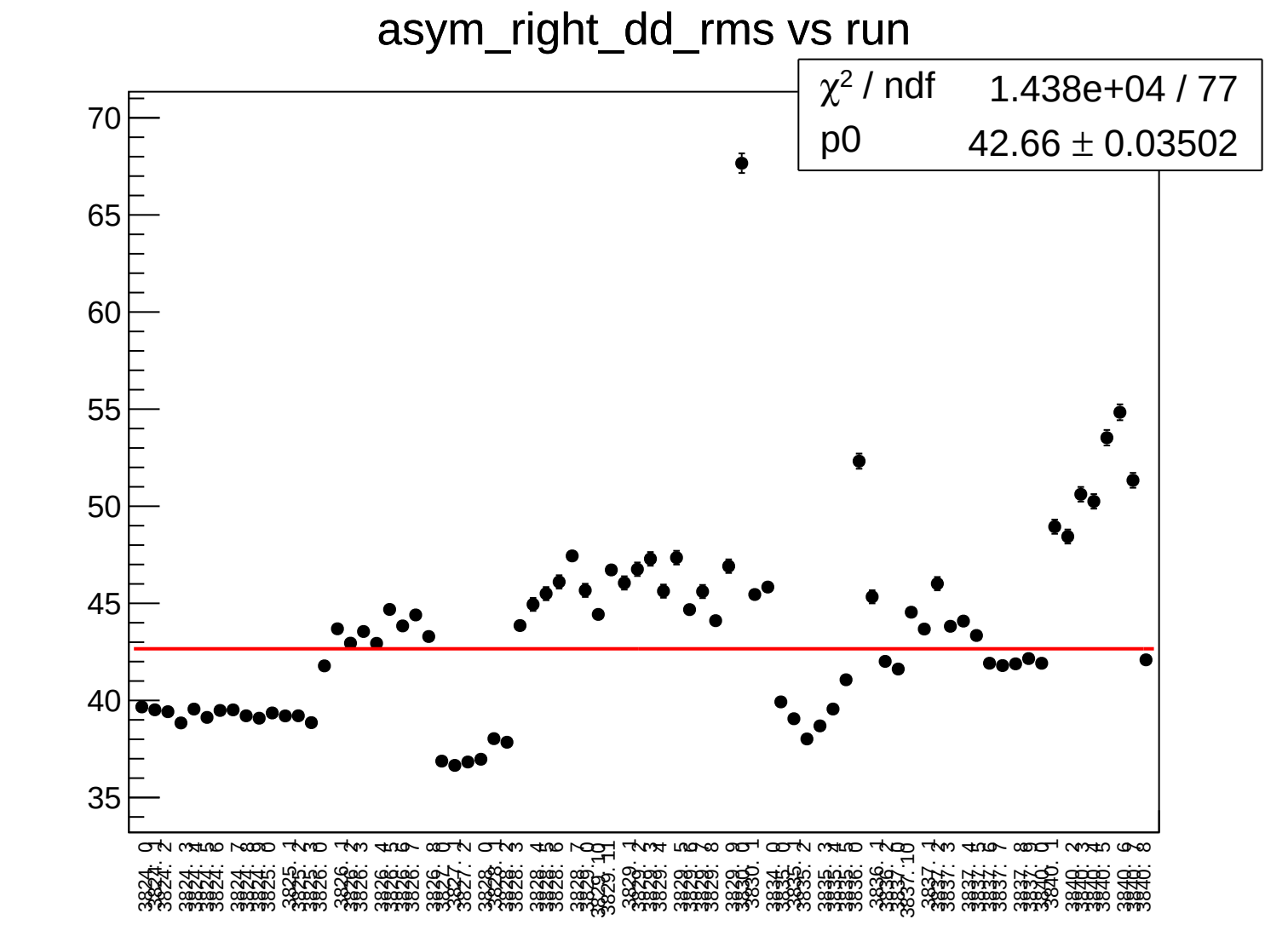

asym_right_dd_correction_mean vs run
χ² / ndf 67.84 / 77
p0 −10.47 ± 39.35
pull
Entries 78
Mean −11.58
Std Dev 72.15

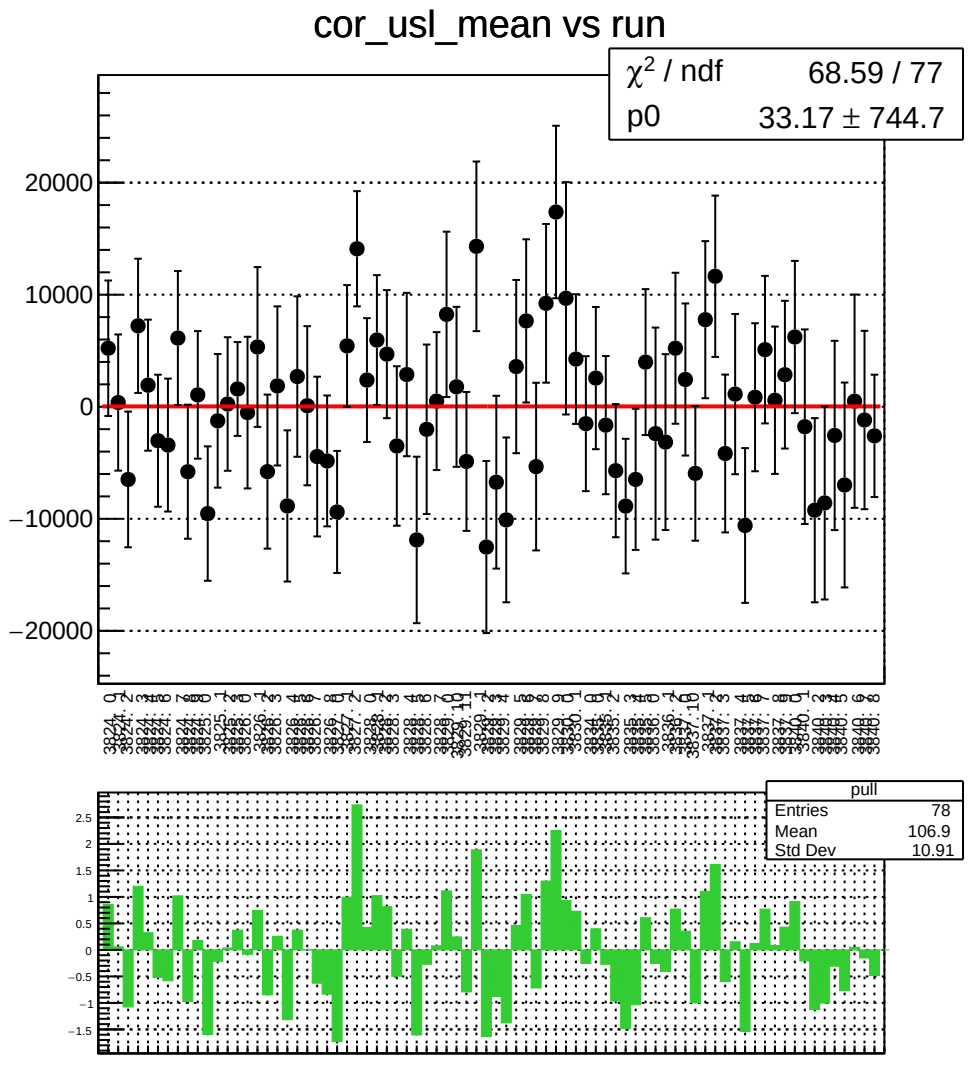

pull1D
Entries 78
Mean −0.006906
Std Dev 0.9326

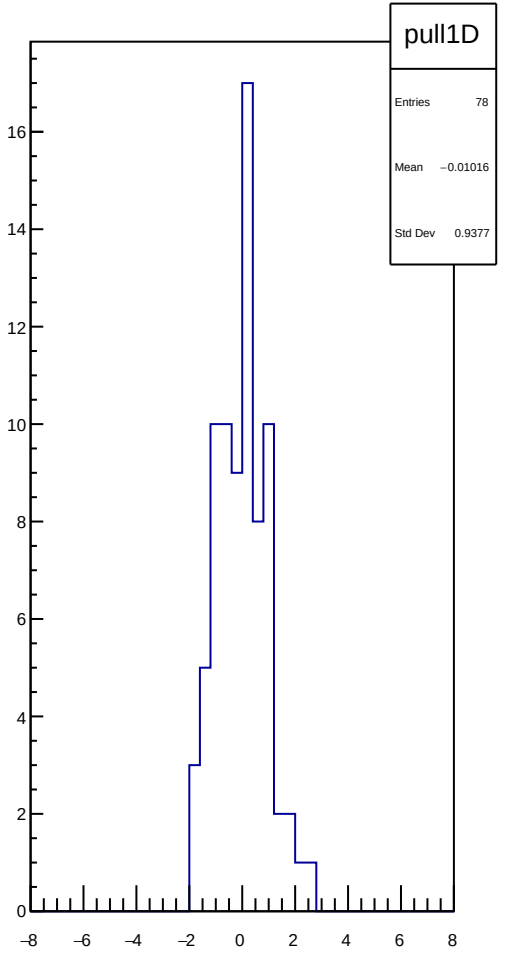

asym_right_dd_correction_rms vs run
χ² / ndf 3.136e+04 / 77
p0 33.7 ± 0.02782
60
55
50
45
40
35
30
25

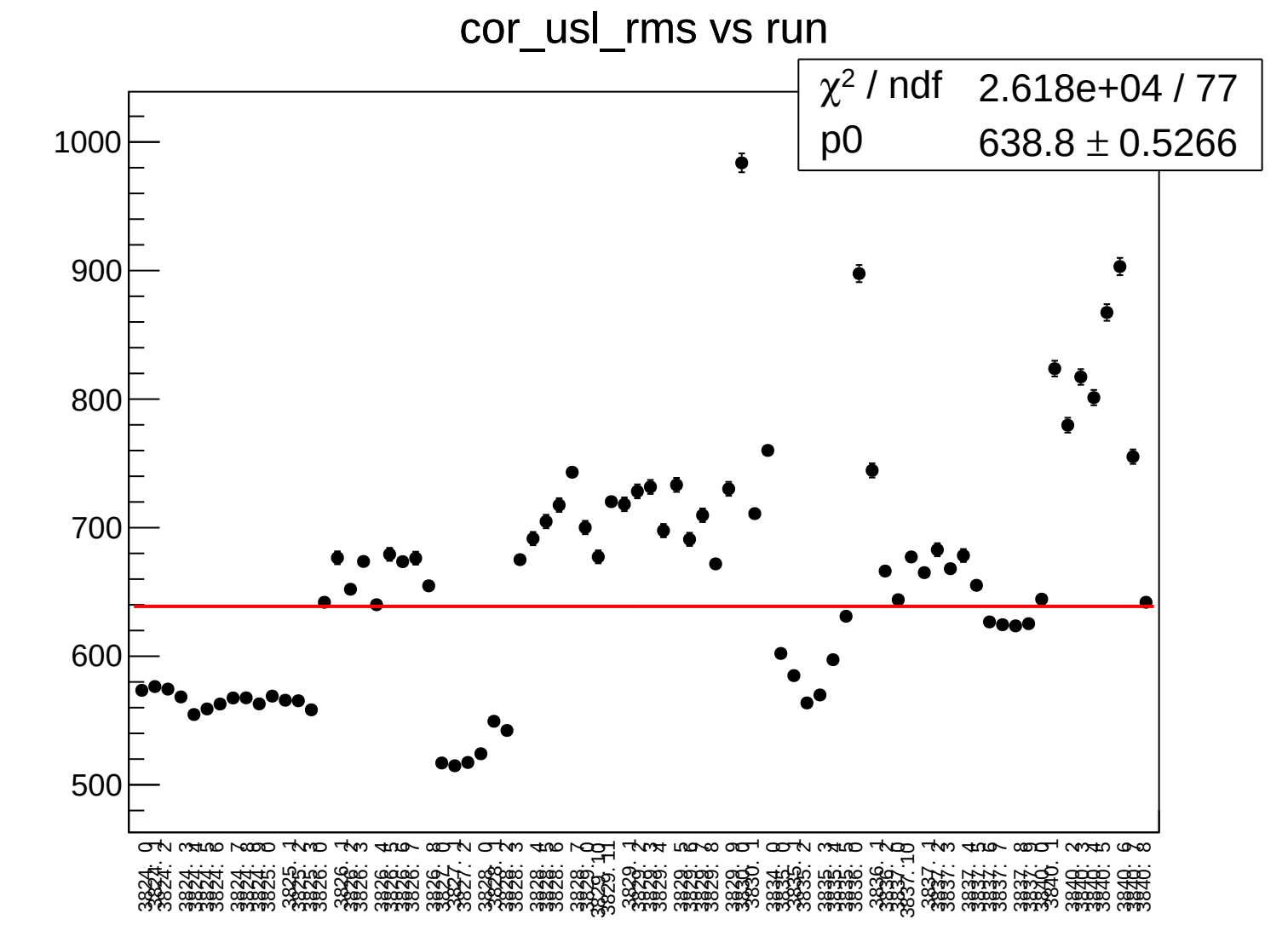

asym_right_dd_mean vs run
χ^2 / ndf 60.73 / 77
p0 57.17 ± 49.53
pull
Entries 78
Mean 312.8
Std Dev 272.8

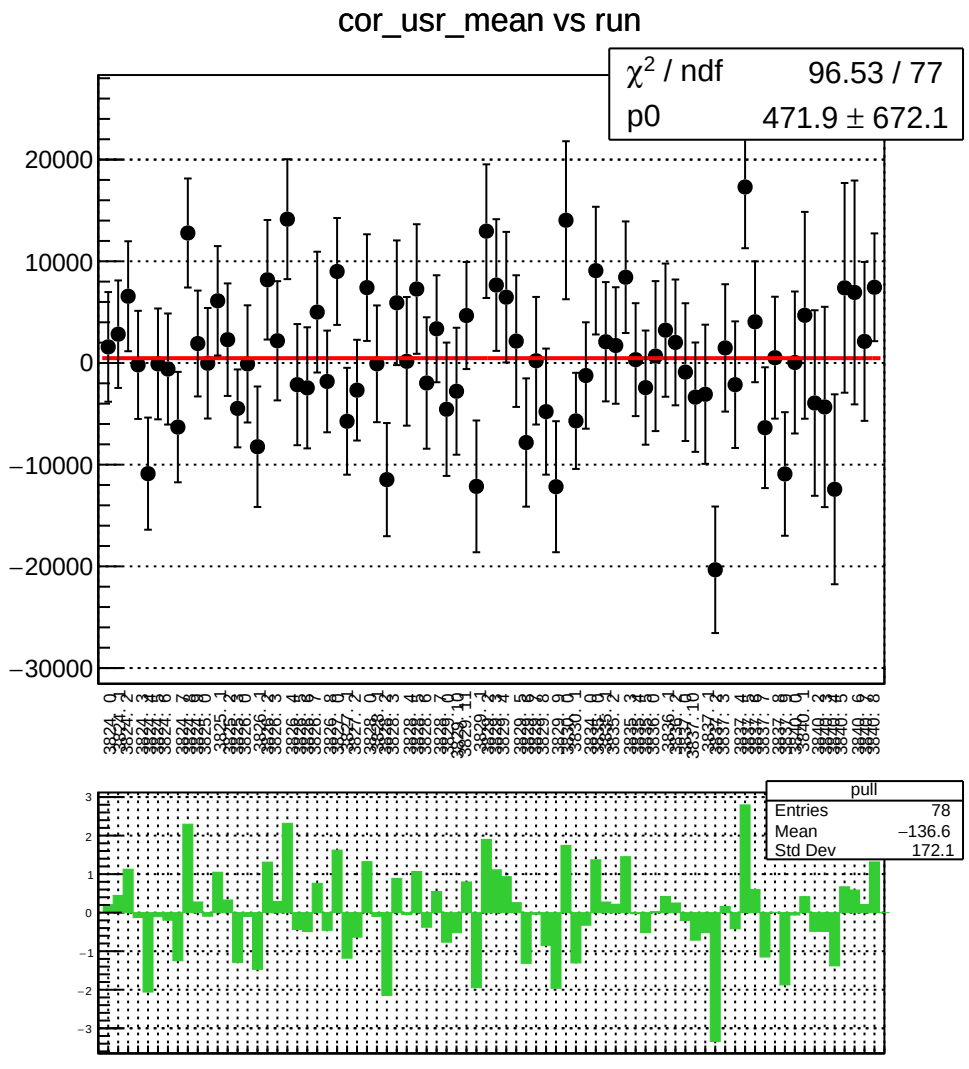

pull1D
Entries 78
Mean 0.01088
Std Dev 0.8823

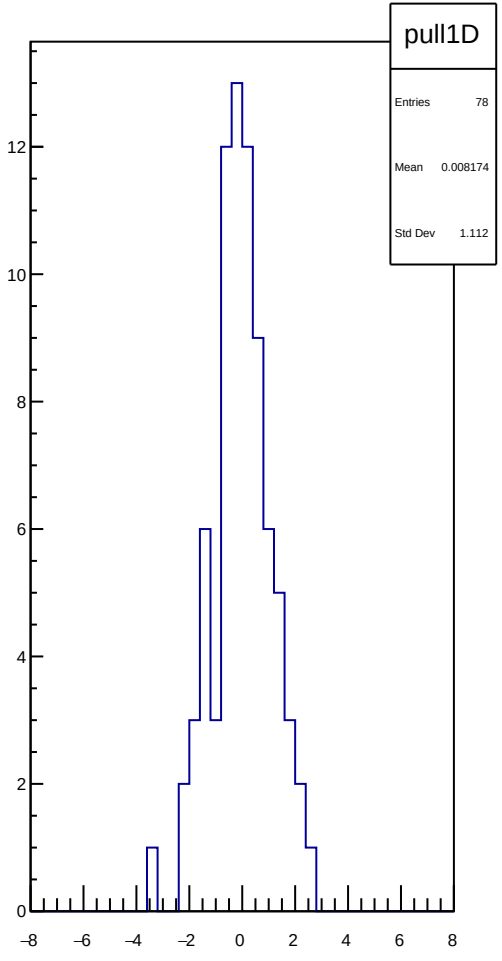

asym_right_dd_rms vs run
χ^2 / ndf 1.438e+04 / 77
p0 42.66 ± 0.03502
70
65
60
55
50
45
40
35

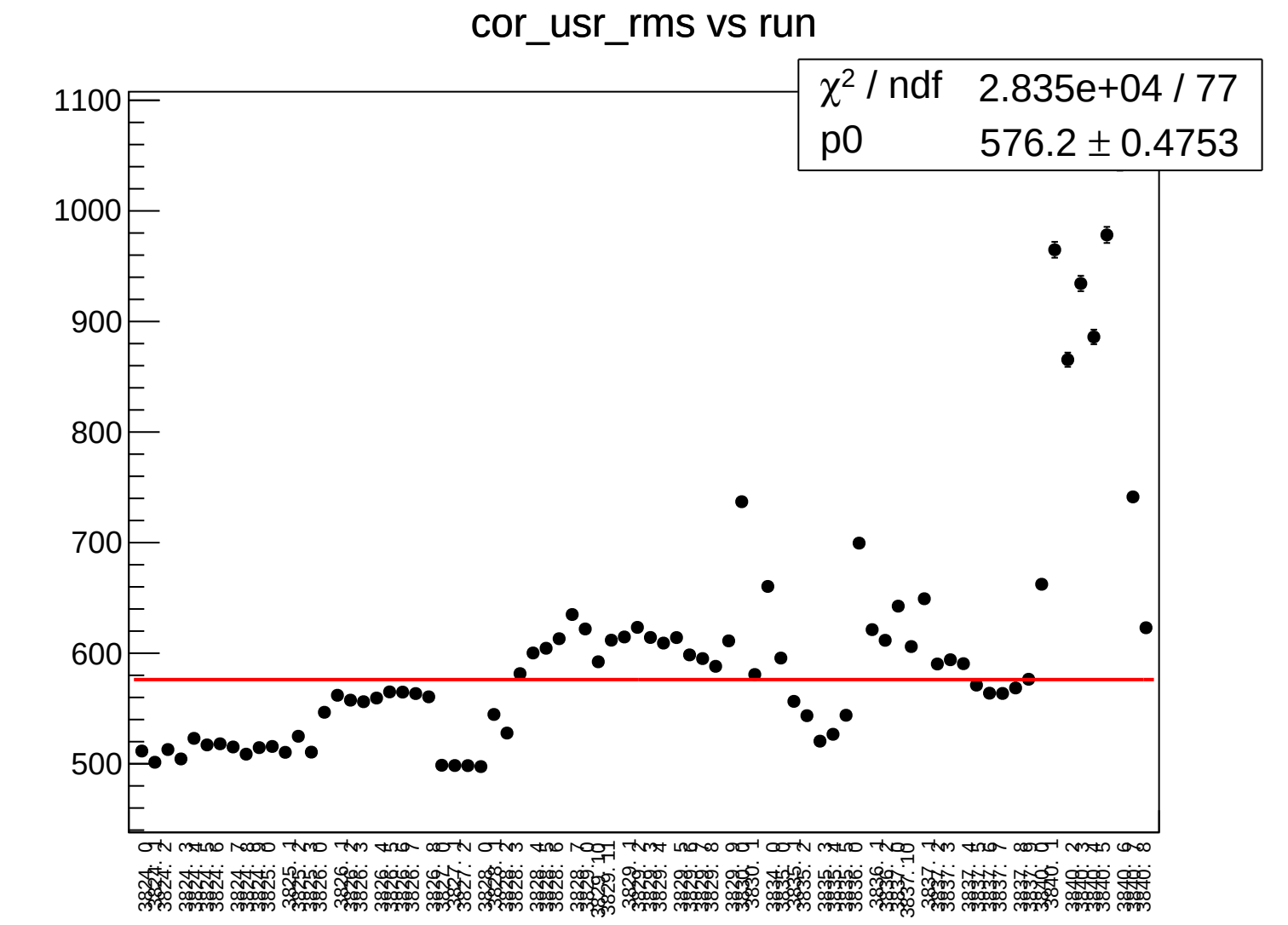

cor_usl_mean vs run
χ² / ndf 68.59 / 77
p0 33.17 ± 744.7
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 106.9
Std Dev 10.91
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

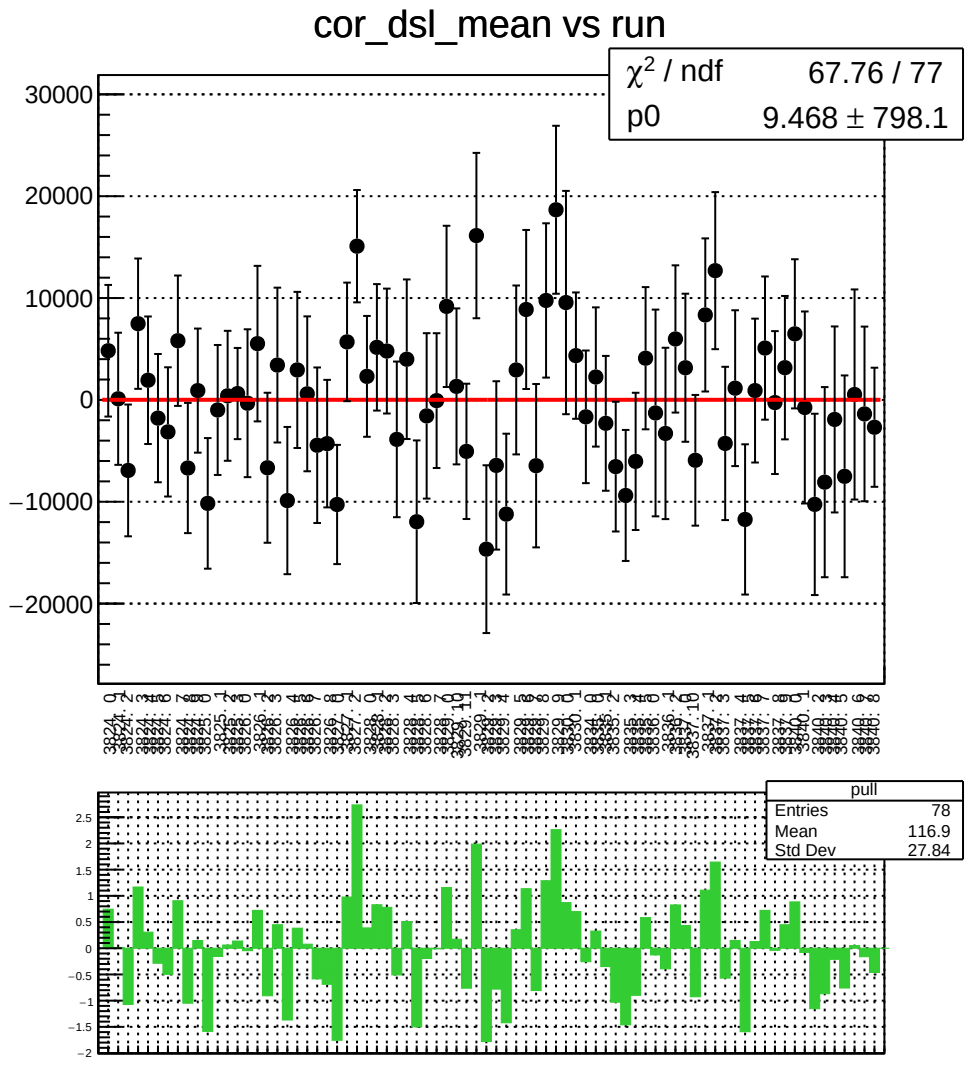

pull1D
Entries 78
Mean −0.01016
Std Dev 0.9377
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

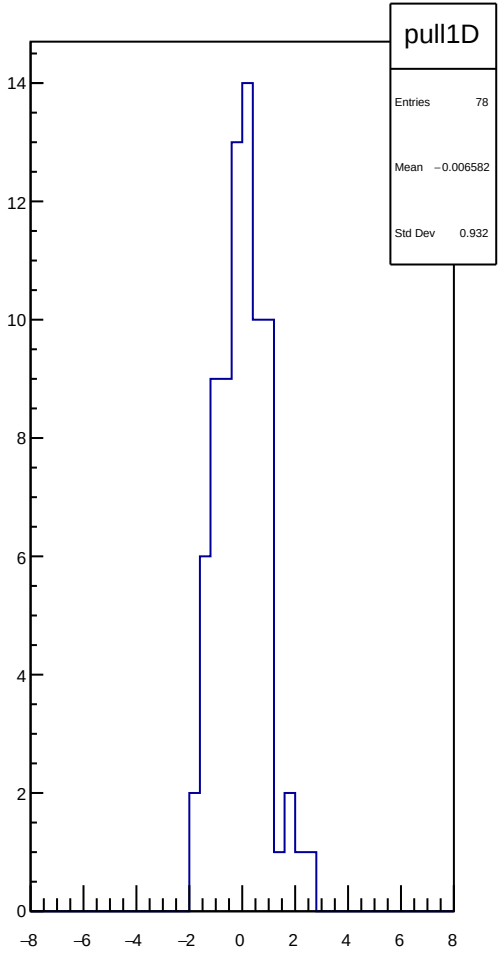

cor_usl_rms vs run
χ² / ndf 2.618e+04 / 77
p0 638.8 ± 0.5266
1000
900
800
700
600
500

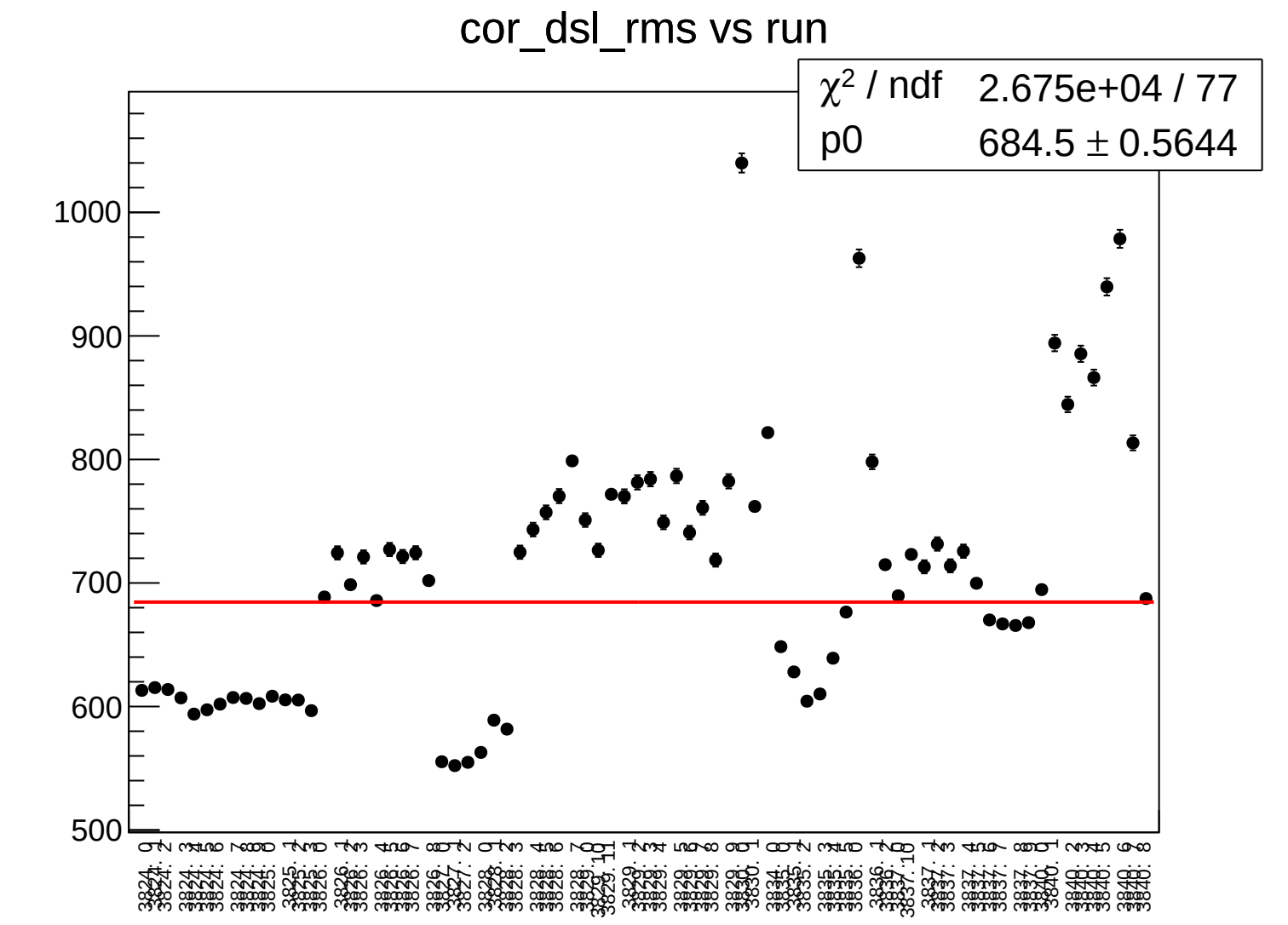

cor_usr_mean vs run
χ² / ndf 96.53 / 77
p0 471.9 ± 672.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean −136.6
Std Dev 172.1
3
2
1
0
−1
−2
−3

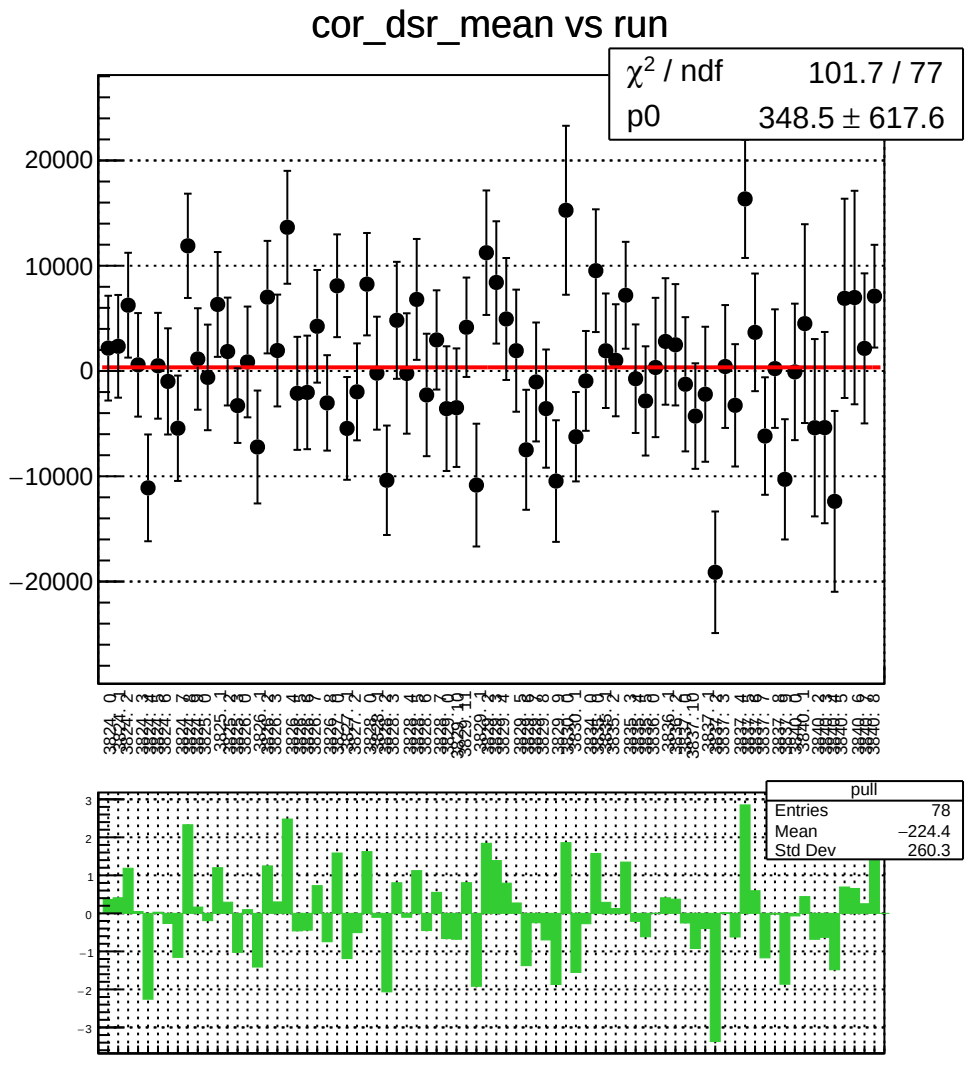

pull1D
Entries 78
Mean 0.008174
Std Dev 1.112
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

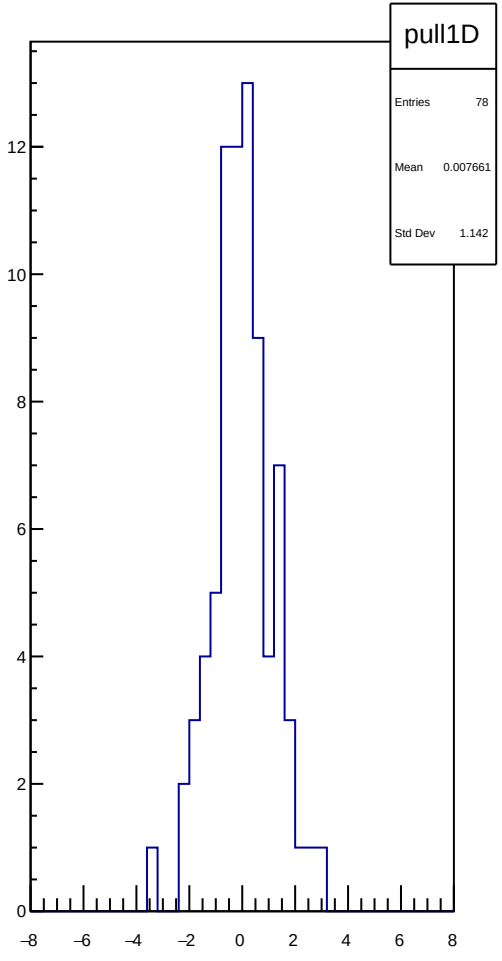

cor_usr_rms vs run
χ² / ndf 2.835e+04 / 77
p0 576.2 ± 0.4753
1100
1000
900
800
700
600
500

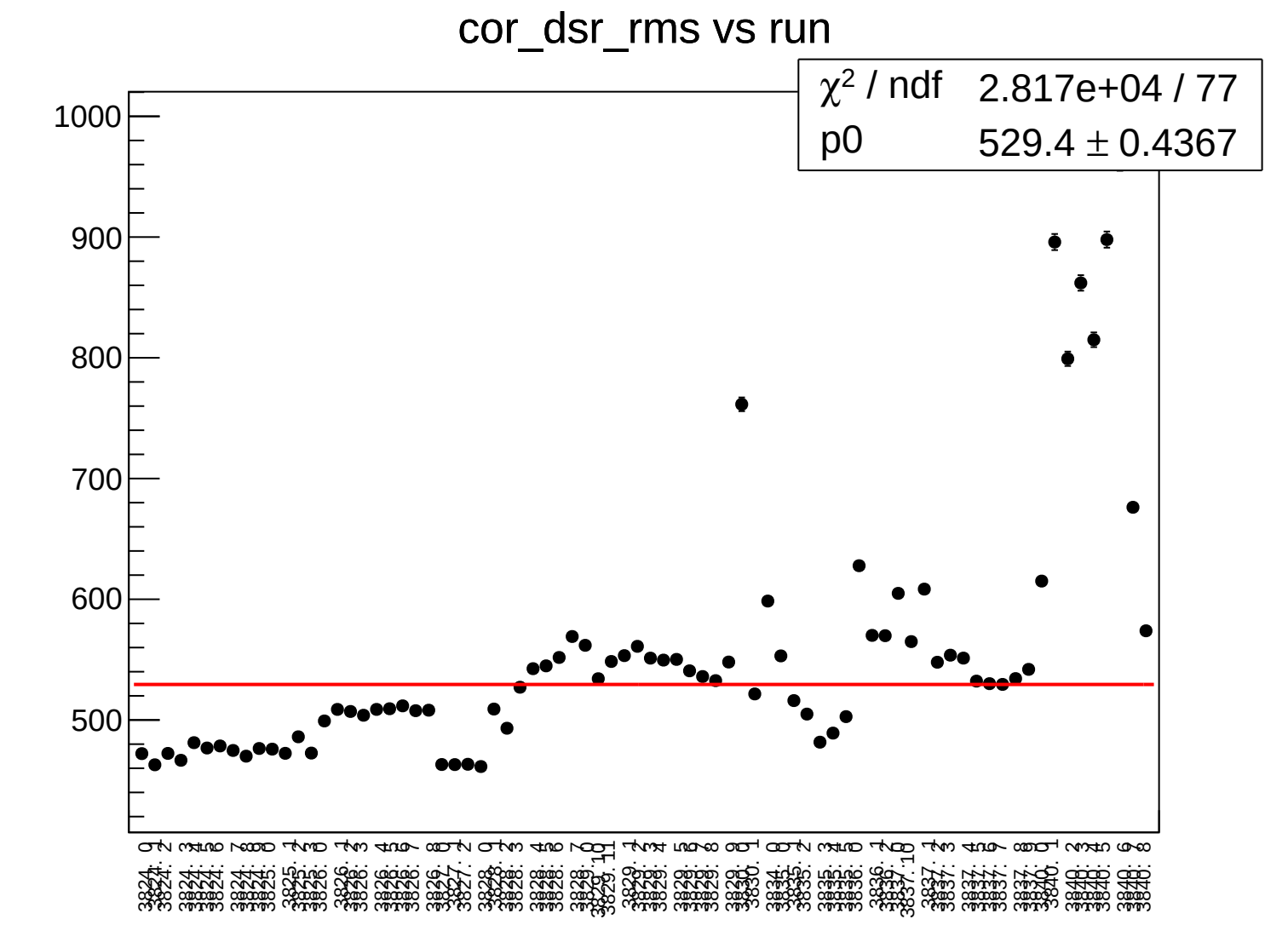

cor_dsl_mean vs run
χ² / ndf 67.76 / 77
p0 9.468 ± 798.1
30000
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 116.9
Std Dev 27.84
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

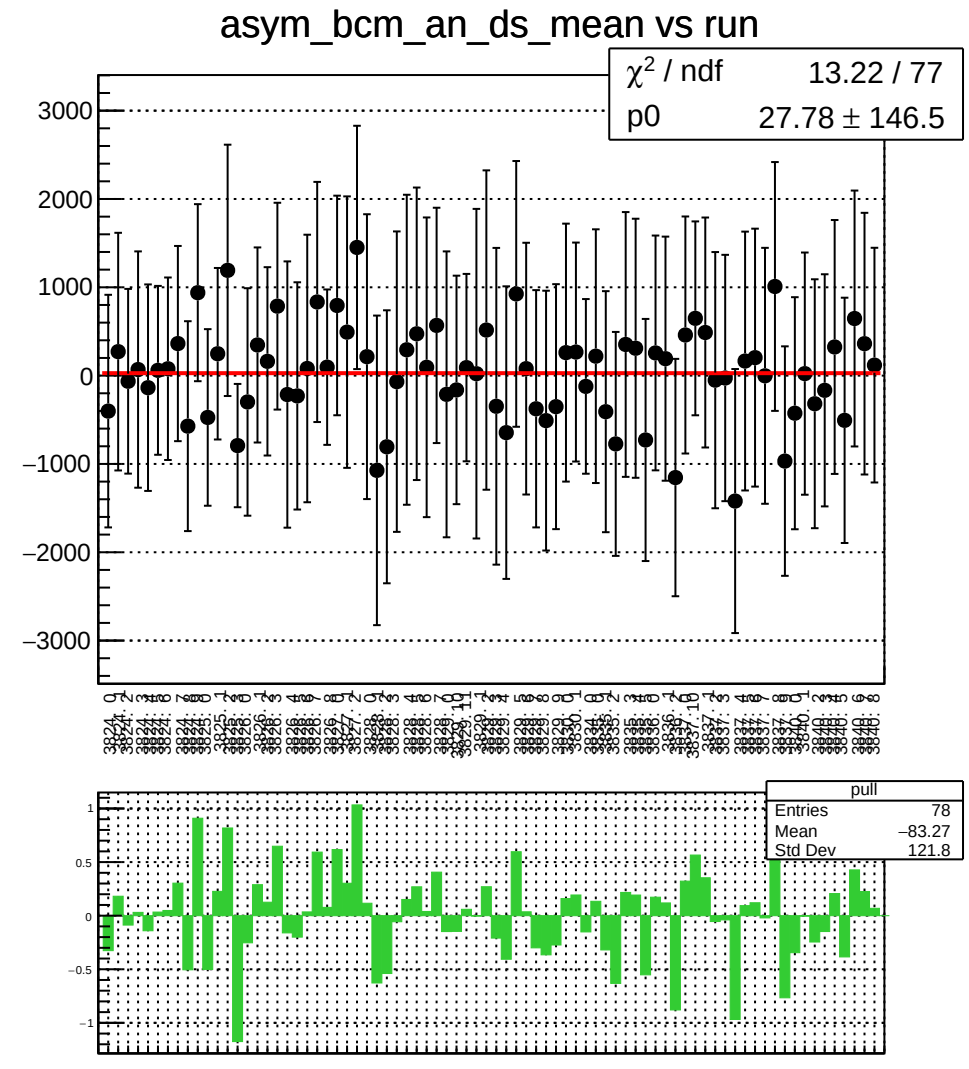

pull1D
Entries 78
Mean −0.006582
Std Dev 0.932
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

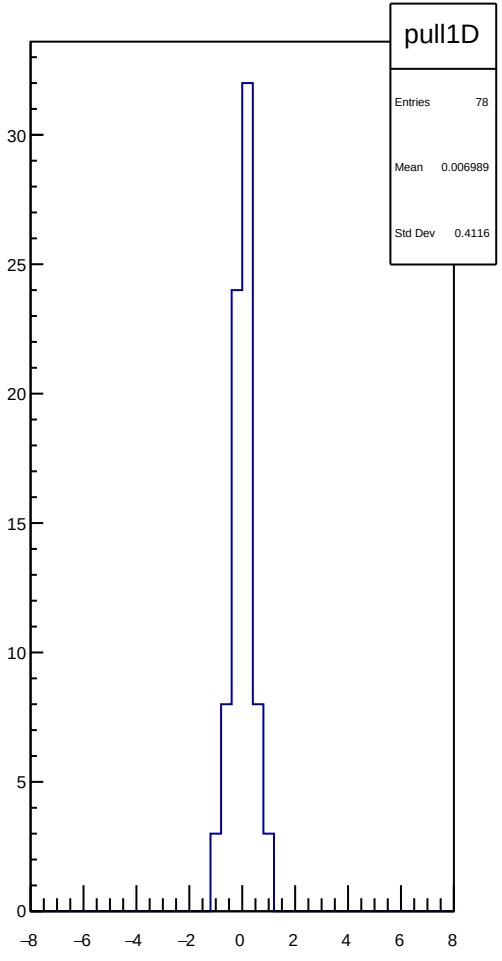

cor_dsl_rms vs run
χ² / ndf 2.675e+04 / 77
p0 684.5 ± 0.5644
1000
900
800
700
600
500

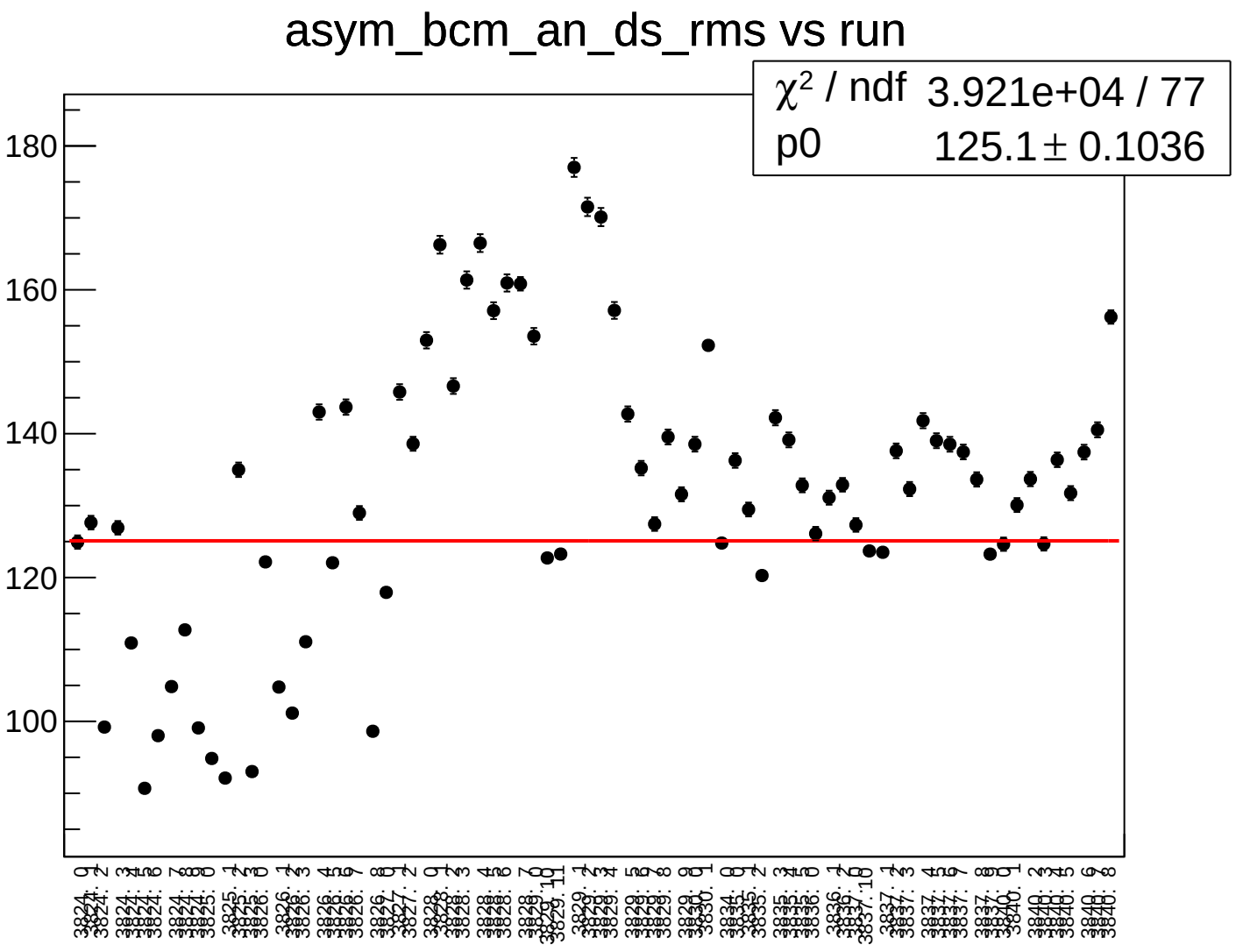

cor_dsr_mean vs run
χ² / ndf 101.7 / 77
p0 348.5 ± 617.6
20000
10000
0
−10000
−20000
pull
Entries 78
Mean −224.4
Std Dev 260.3
3
2
1
0
−1
−2
−3

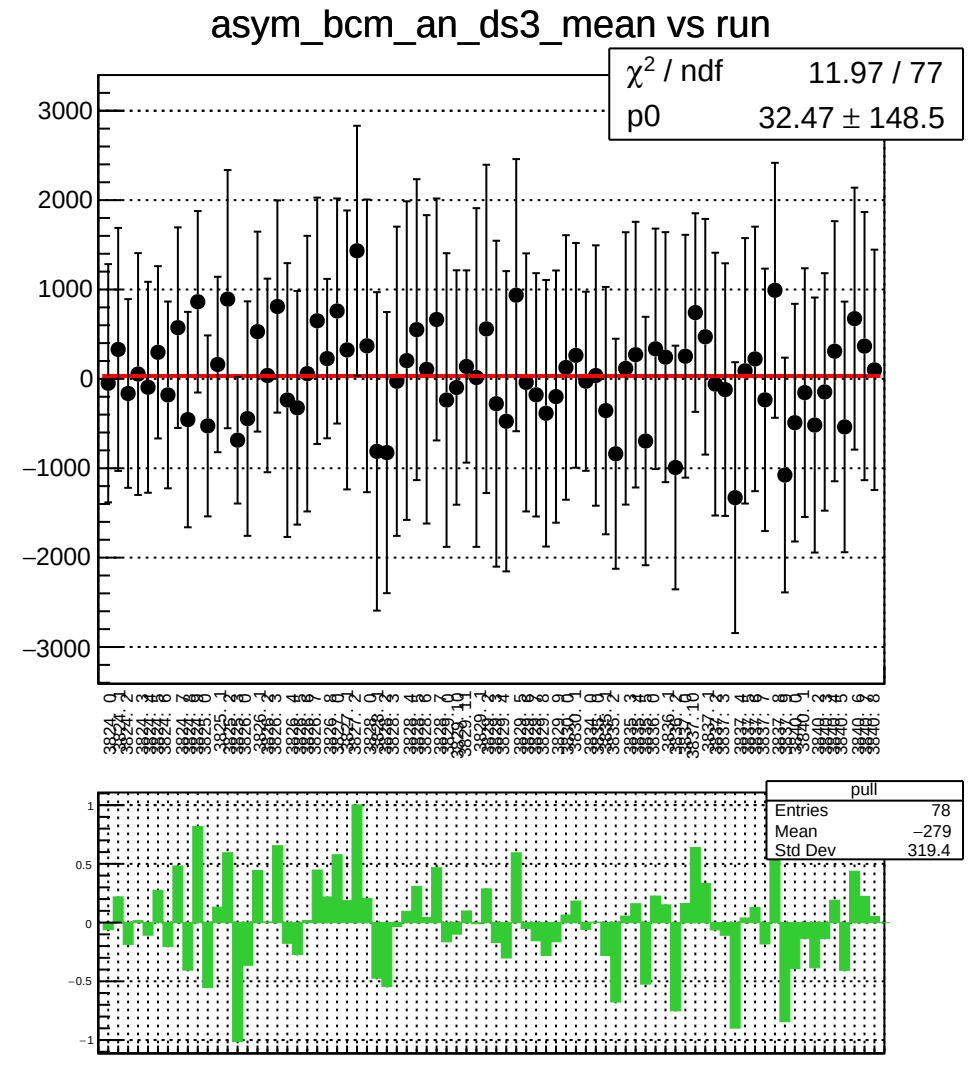

pull1D
Entries 78
Mean 0.007661
Std Dev 1.142
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

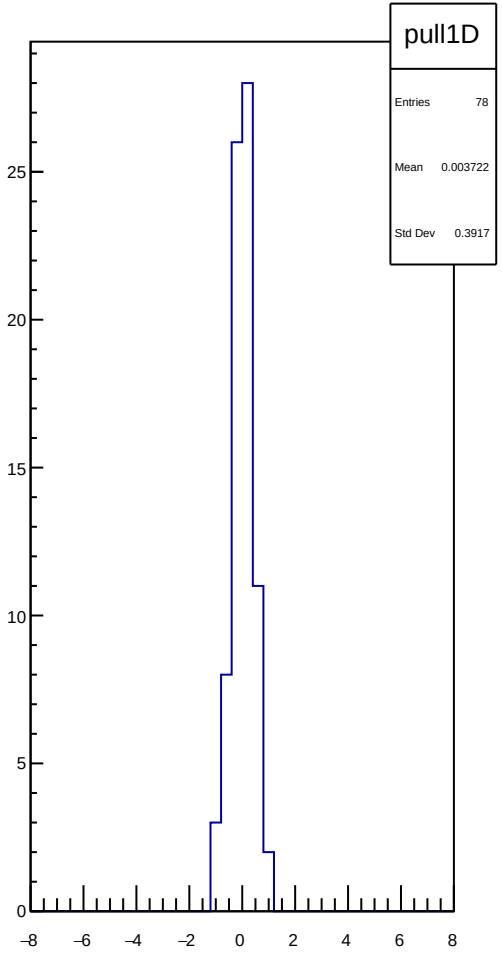

cor_dsr_rms vs run
χ² / ndf 2.817e+04 / 77
p0 529.4 ± 0.4367
1000
900
800
700
600
500

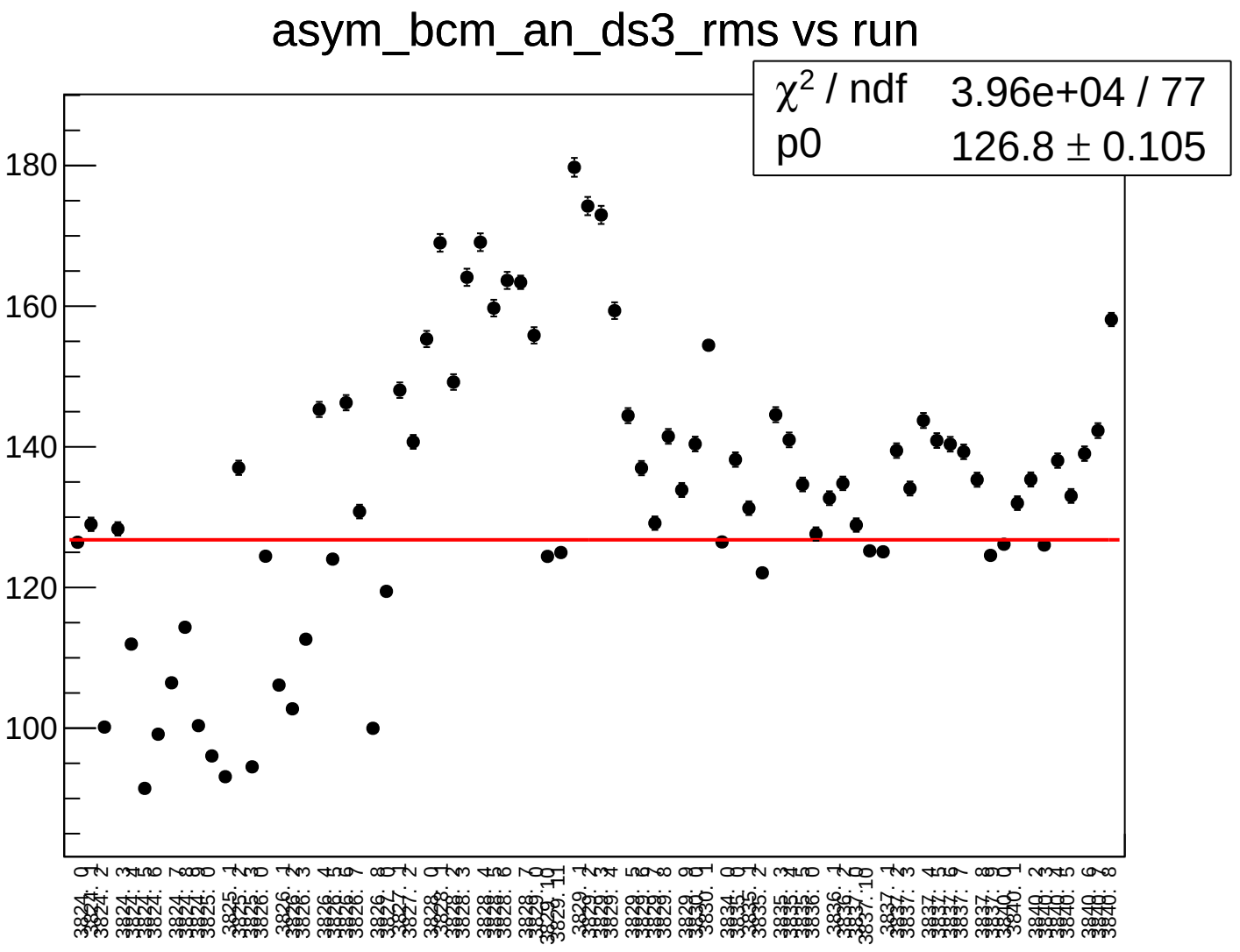

asym_bcm_an_ds_mean vs run
χ² / ndf 13.22 / 77
p0 27.78 ± 146.5
pull
Entries 78
Mean −83.27
Std Dev 121.8

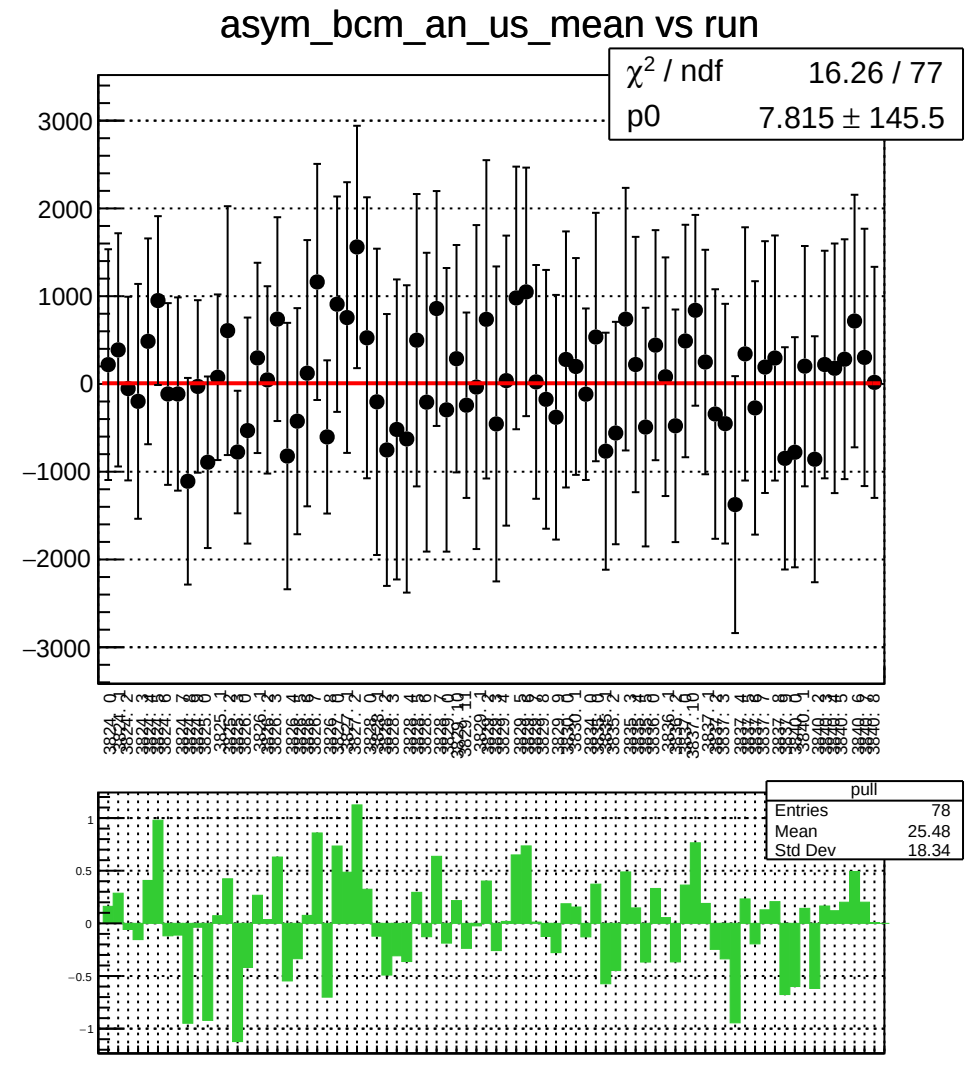

pull1D
Entries 78
Mean 0.006989
Std Dev 0.4116

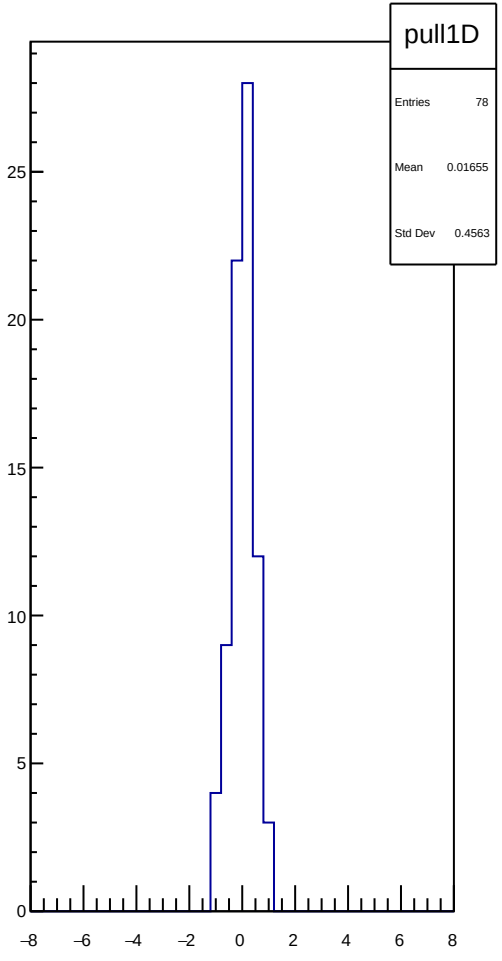

asym_bcm_an_ds_rms vs run
χ² / ndf 3.921e+04 / 77
p0 125.1 ± 0.1036
180
160
140
120
100

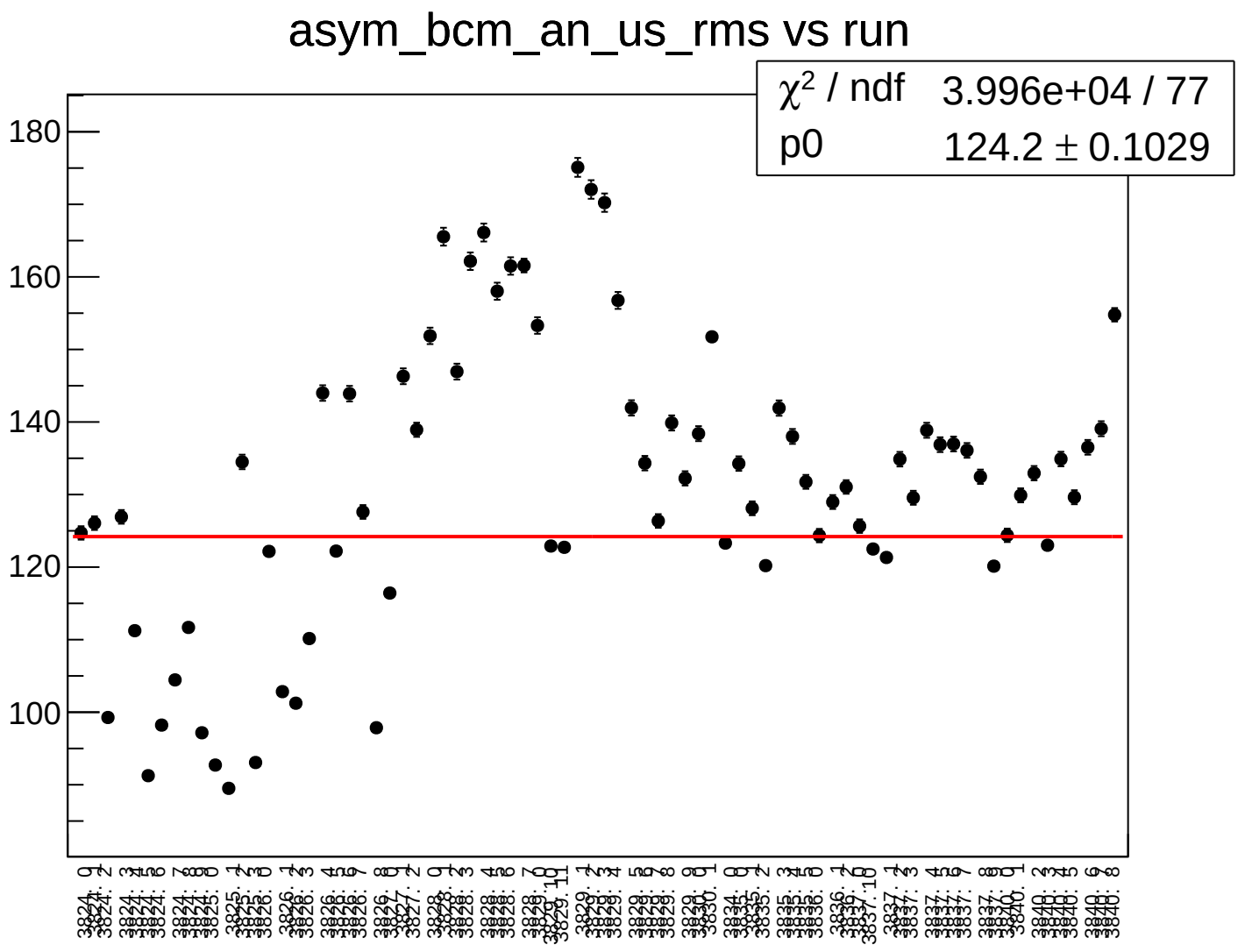

asym_bcm_an_ds3_mean vs run
χ² / ndf 11.97 / 77
p0 32.47 ± 148.5
pull
Entries 78
Mean −279
Std Dev 319.4

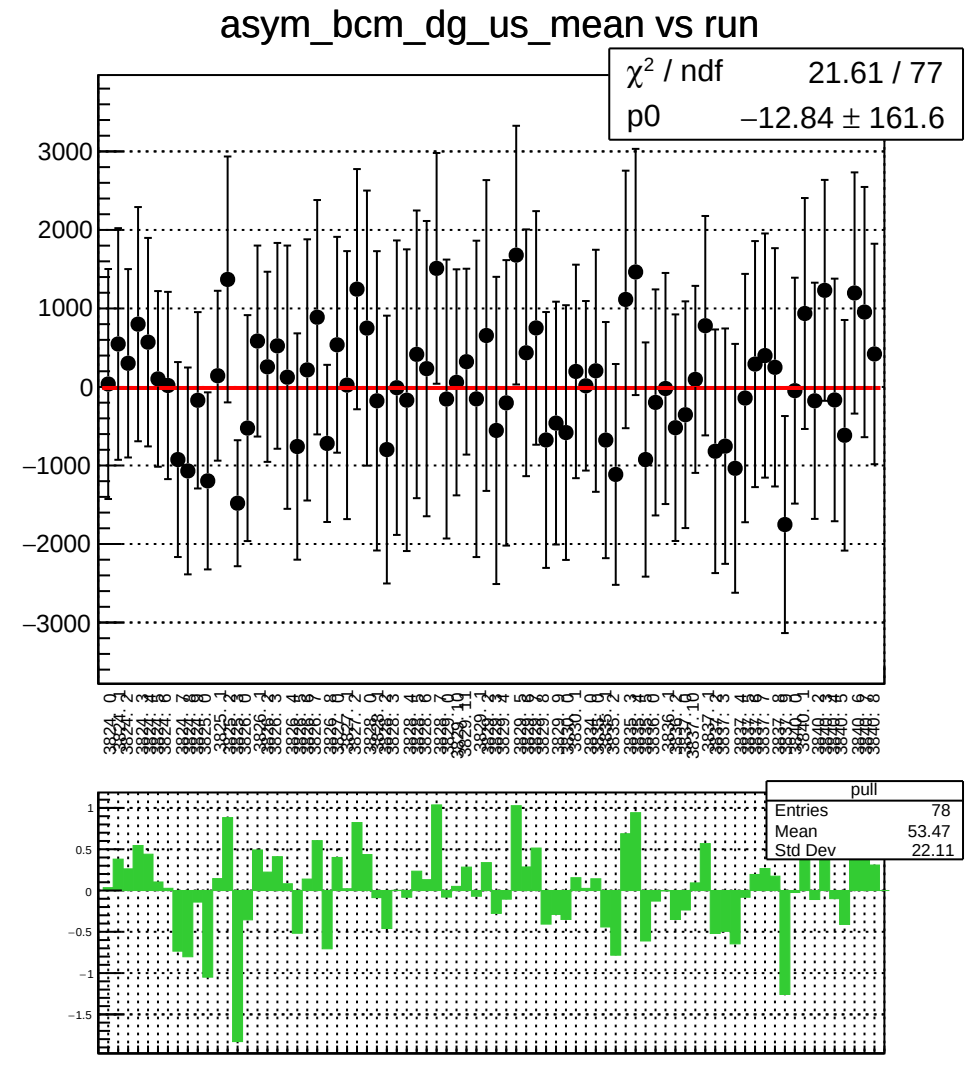

pull1D
Entries 78
Mean 0.003722
Std Dev 0.3917

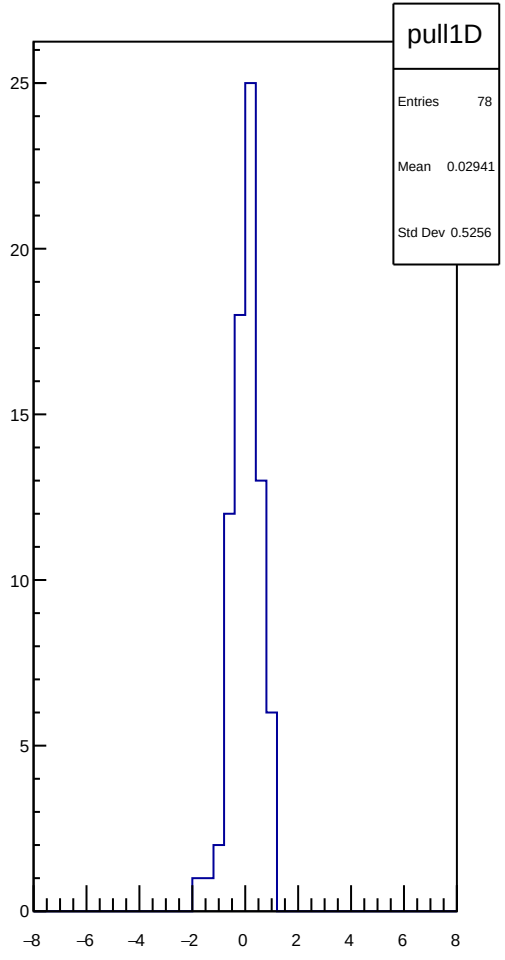

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 3.96e+04 / 77
p0 126.8 ± 0.105
180
160
140
120
100

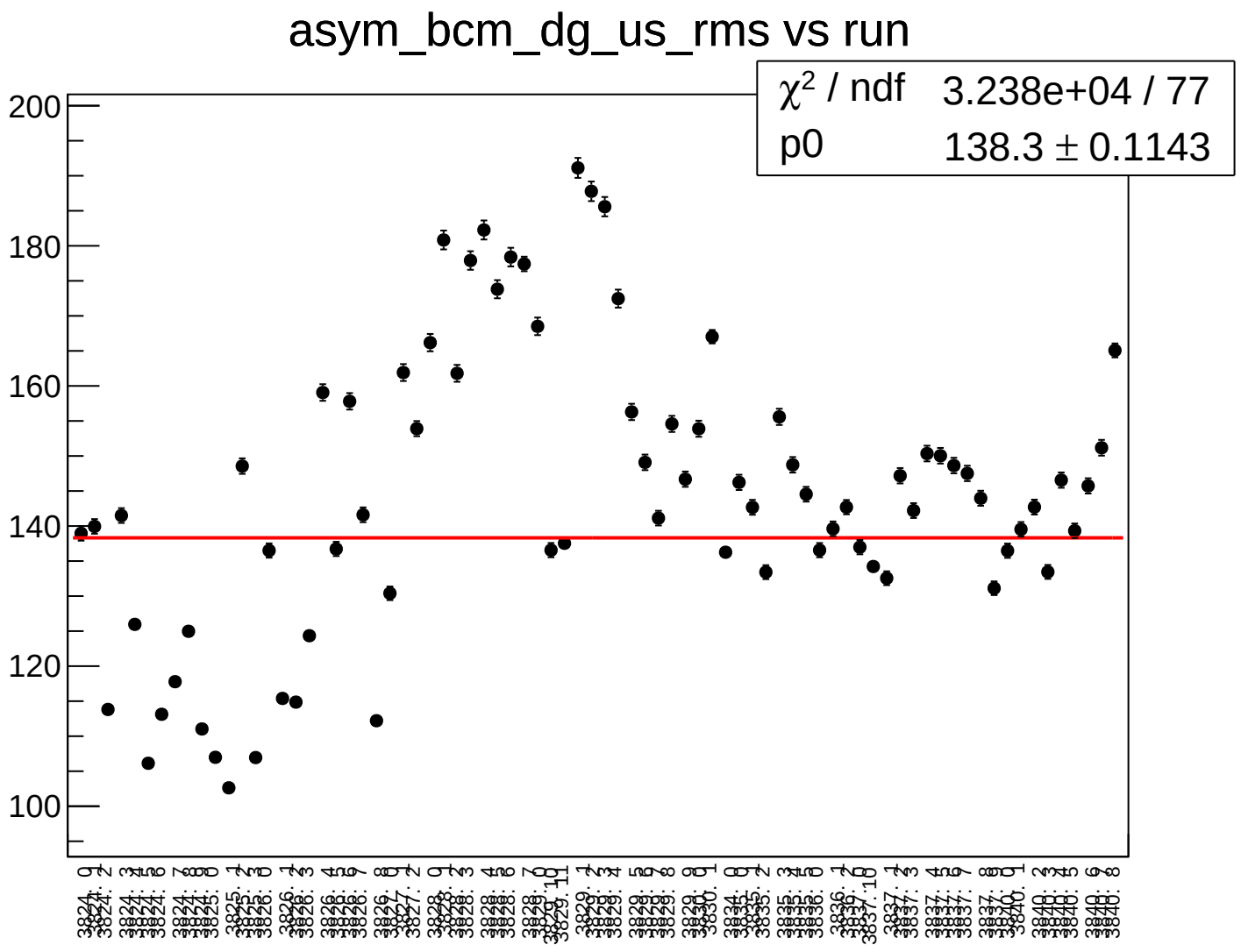

asym_bcm_an_us_mean vs run
χ^2 / ndf 16.26 / 77
p0 7.815 ± 145.5
pull
Entries 78
Mean 25.48
Std Dev 18.34

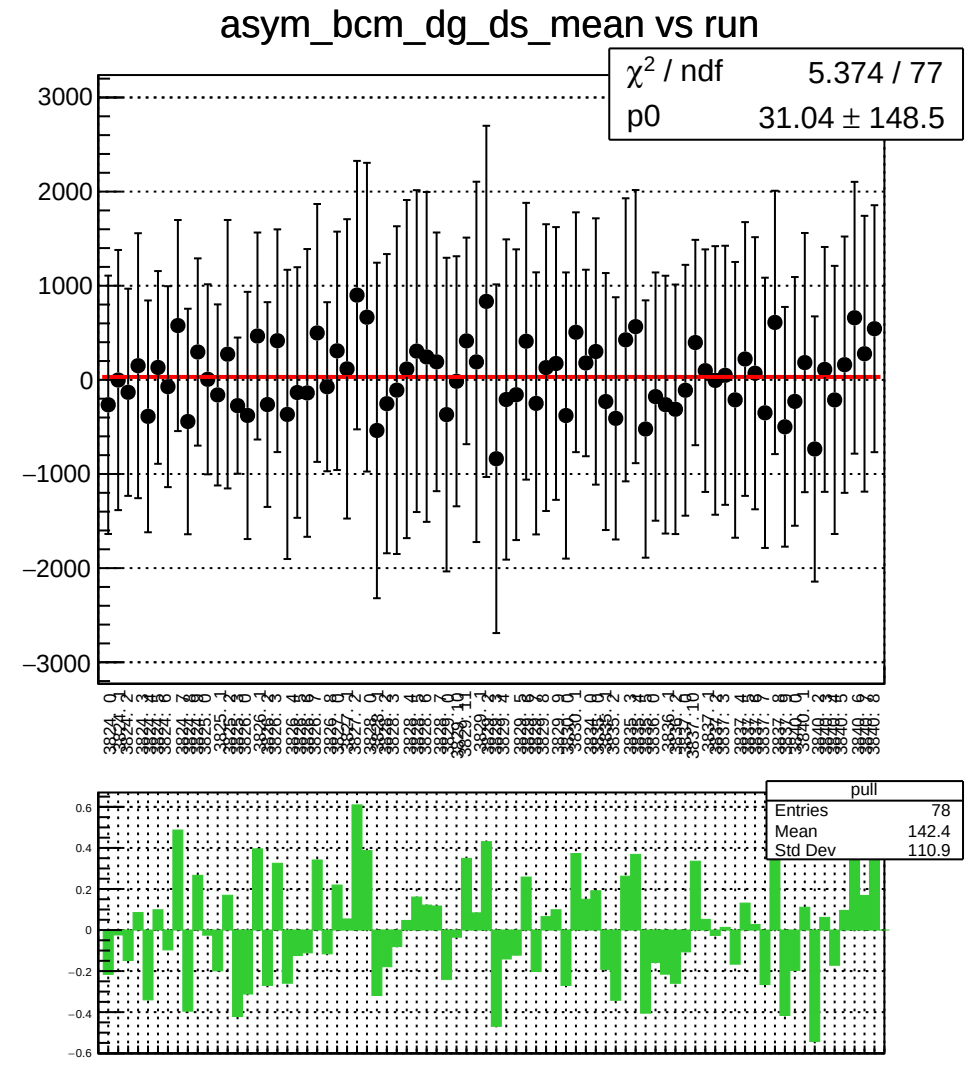

pull1D
Entries 78
Mean 0.01655
Std Dev 0.4563

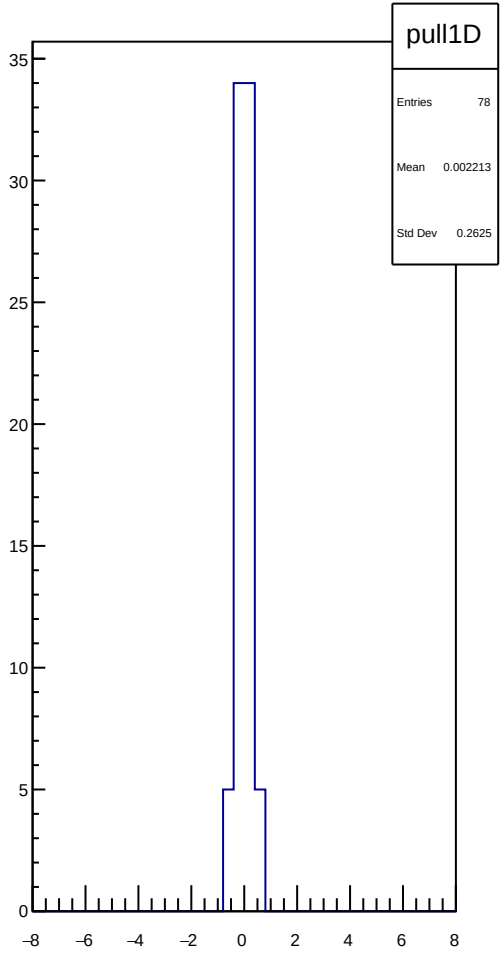

asym_bcm_an_us_rms vs run
χ² / ndf 3.996e+04 / 77
p0 124.2 ± 0.1029
180
160
140
120
100

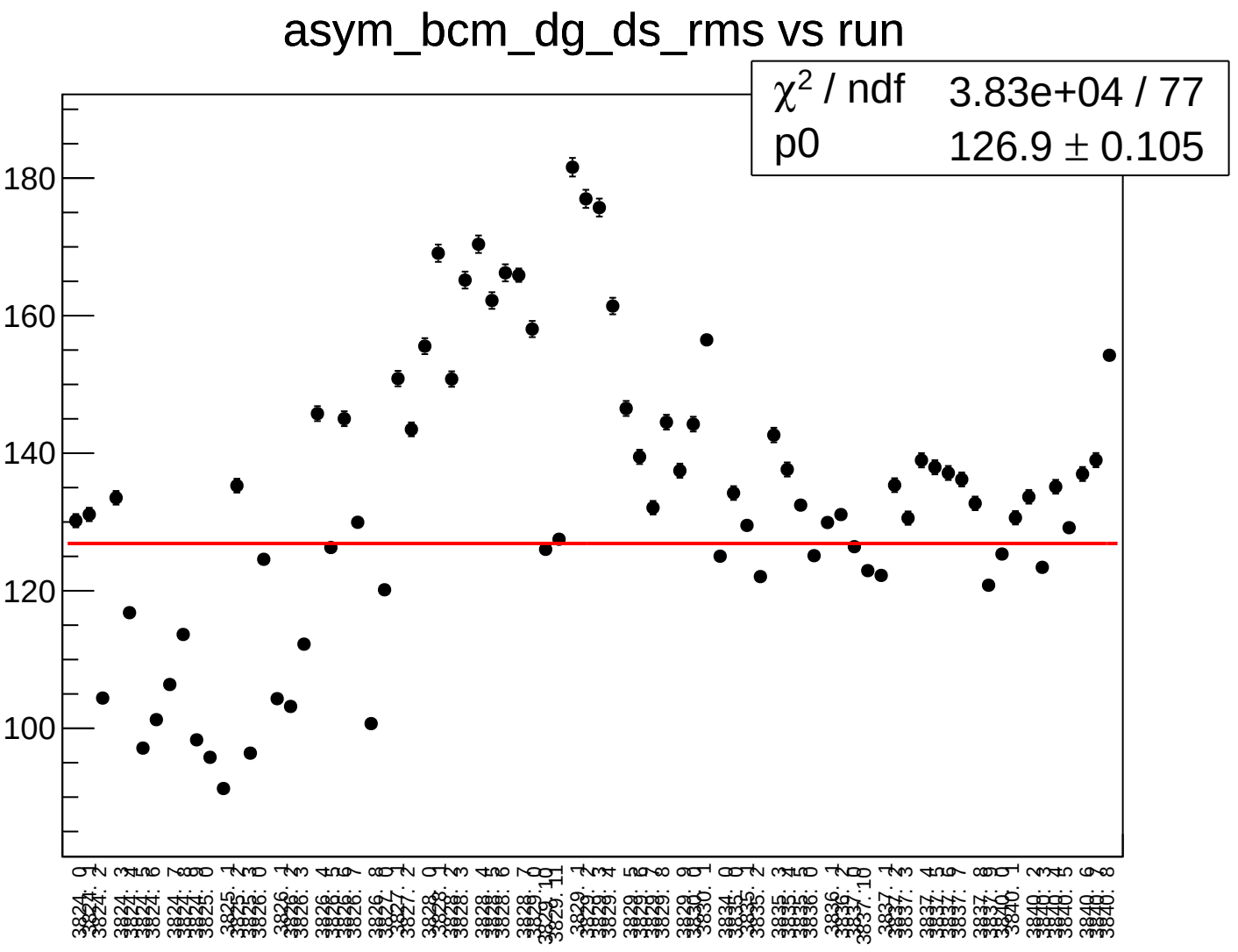

asym_bcm_dg_us_mean vs run
χ² / ndf 21.61 / 77
p0 −12.84 ± 161.6
pull
Entries 78
Mean 53.47
Std Dev 22.11

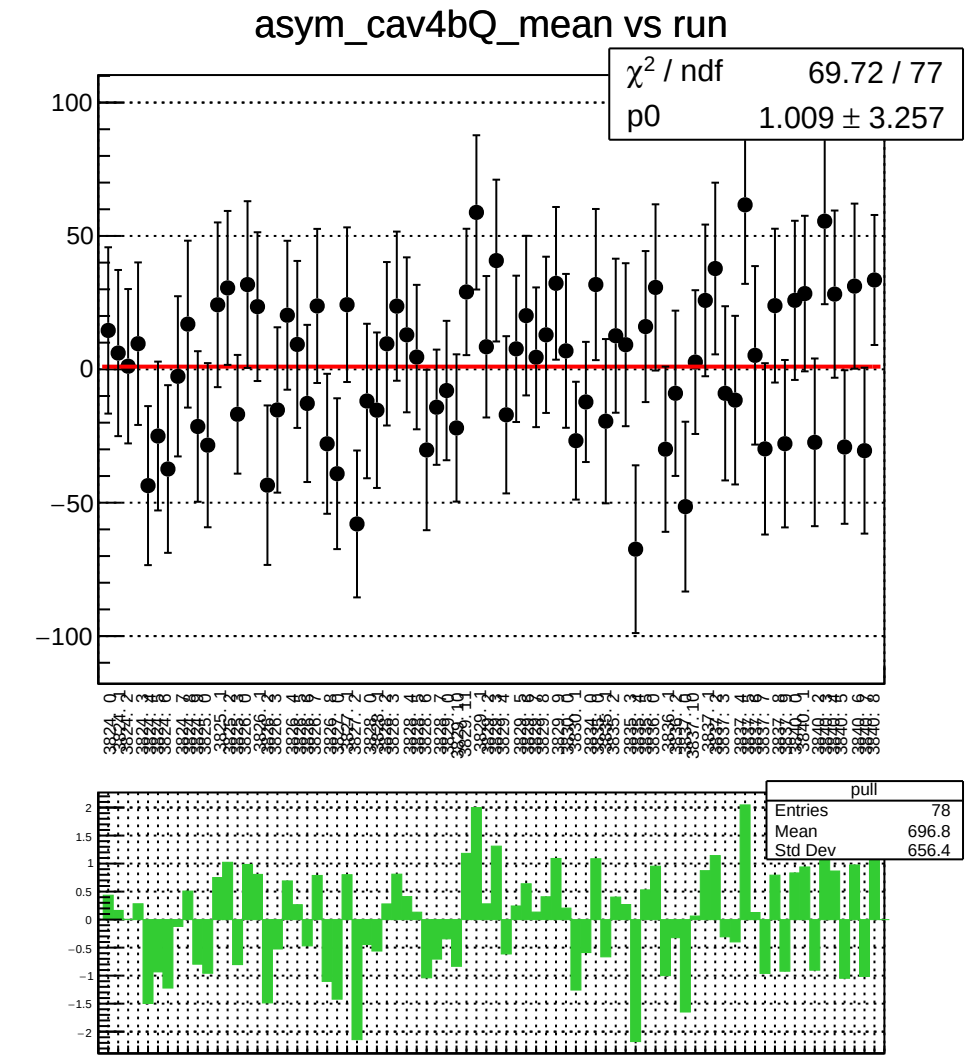

pull1D
Entries 78
Mean 0.02941
Std Dev 0.5256

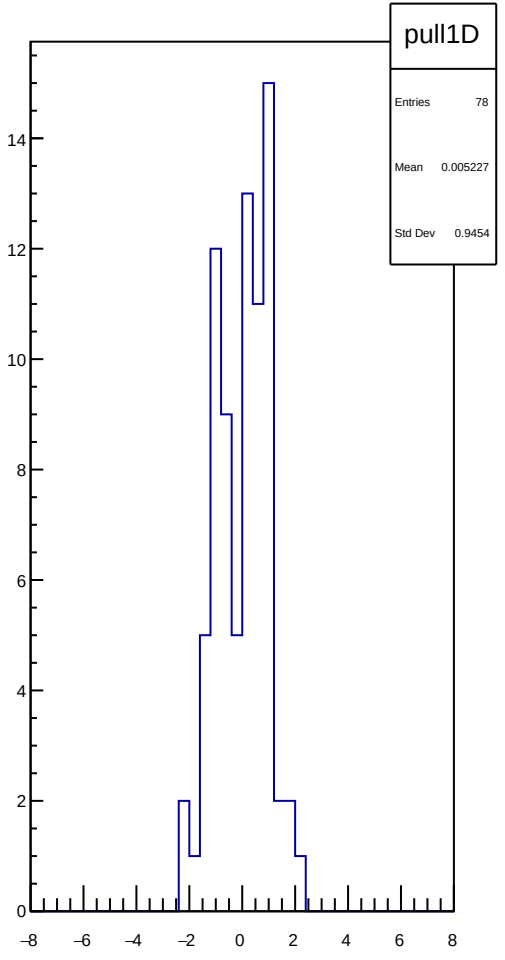

asym_bcm_dg_us_rms vs run
χ² / ndf 3.238e+04 / 77
p0 138.3 ± 0.1143
200
180
160
140
120
100

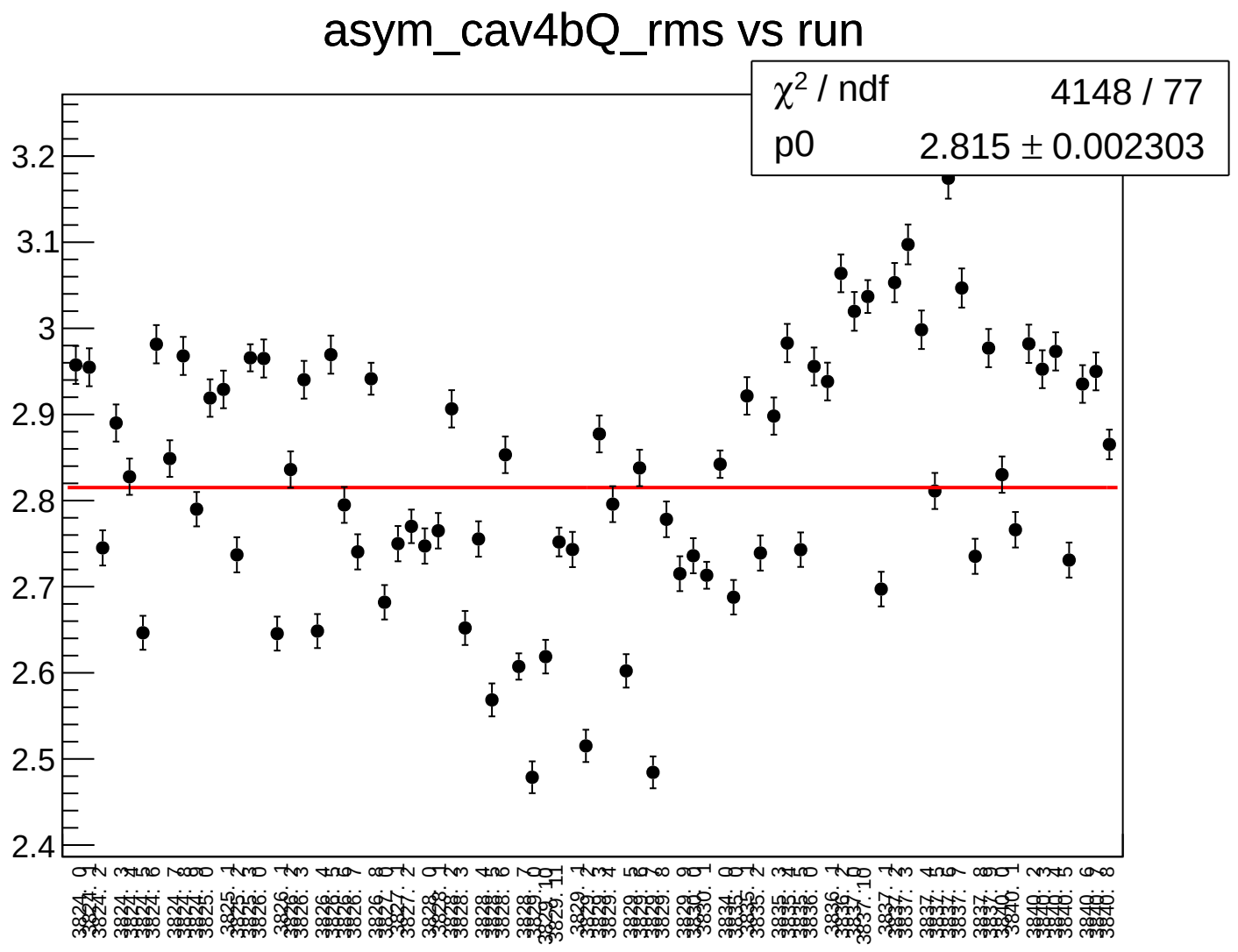

asym_bcm_dg_ds_mean vs run
χ² / ndf 5.374 / 77
p0 31.04 ± 148.5
pull
Entries 78
Mean 142.4
Std Dev 110.9

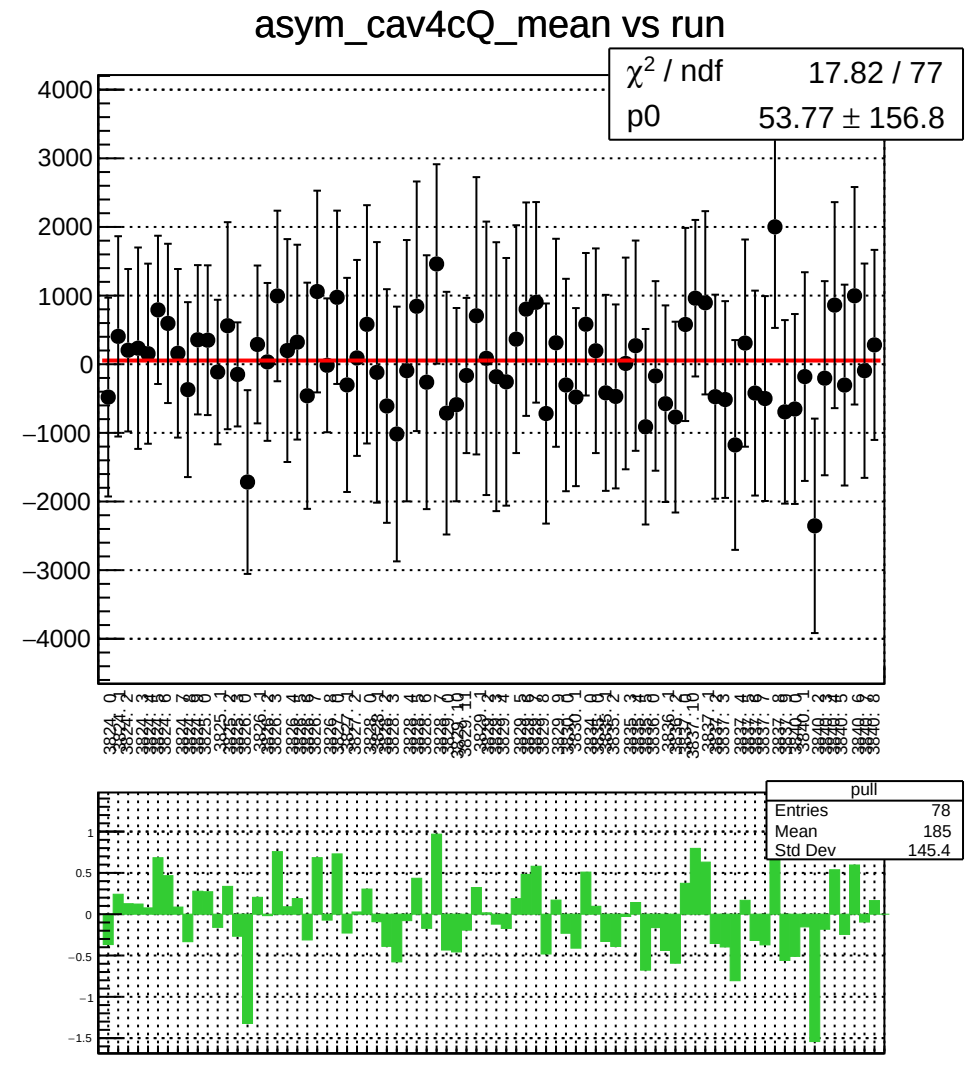

pull1D
Entries 78
Mean 0.002213
Std Dev 0.2625

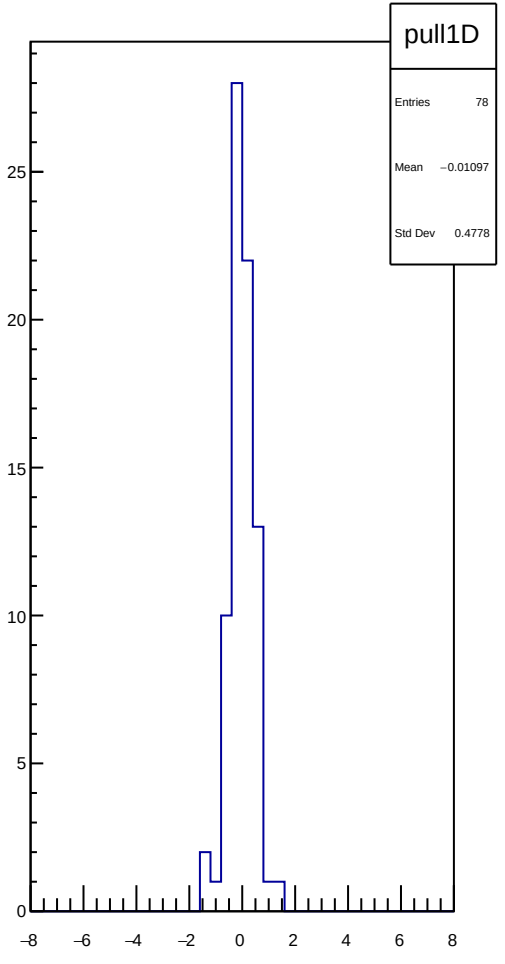

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 3.83e+04 / 77
p0 126.9 ± 0.105
180
160
140
120
100

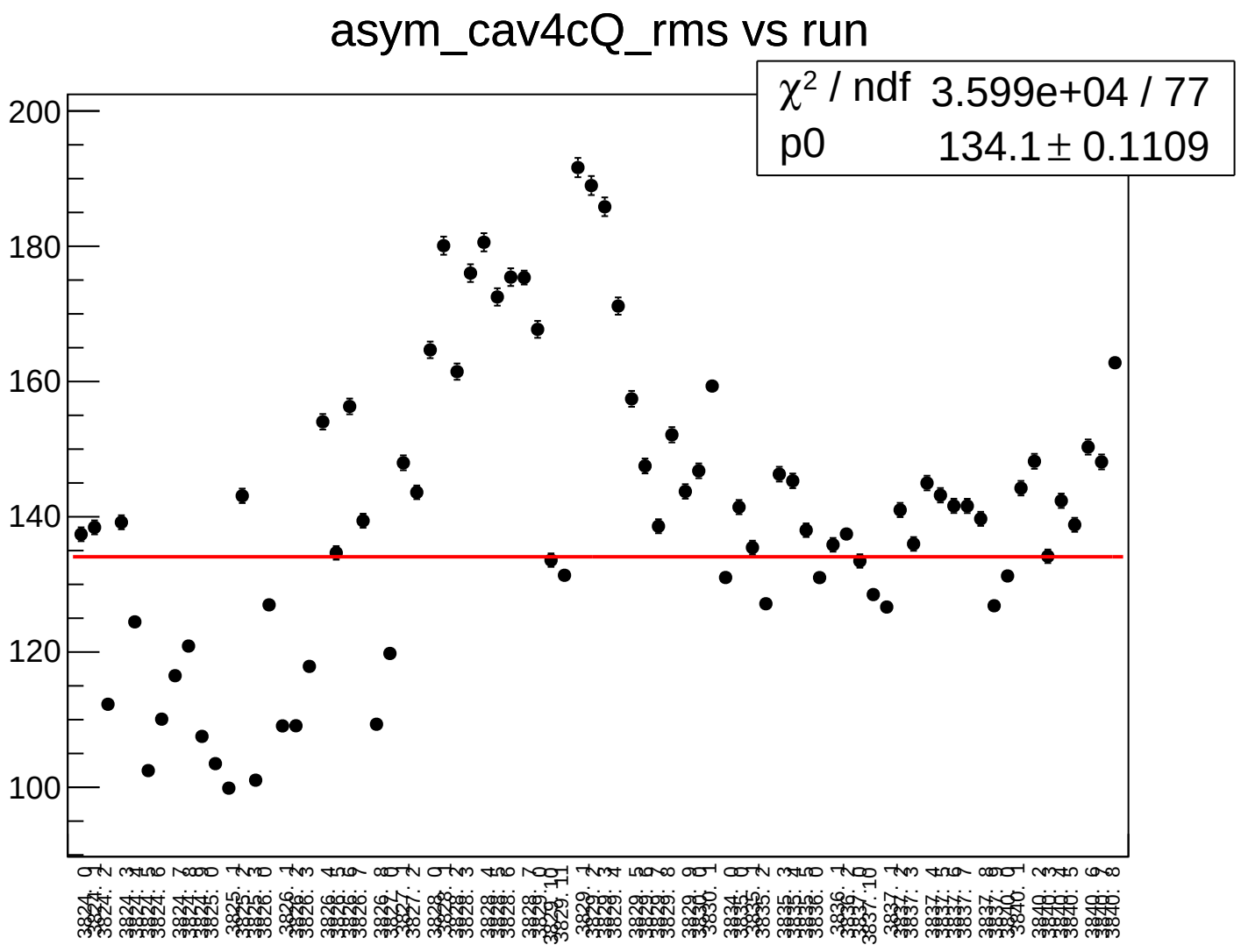

asym_cav4bQ_mean vs run
χ² / ndf 69.72 / 77
p0 1.009 ± 3.257
100
50
0
−50
−100
pull
Entries 78
Mean 696.8
Std Dev 656.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

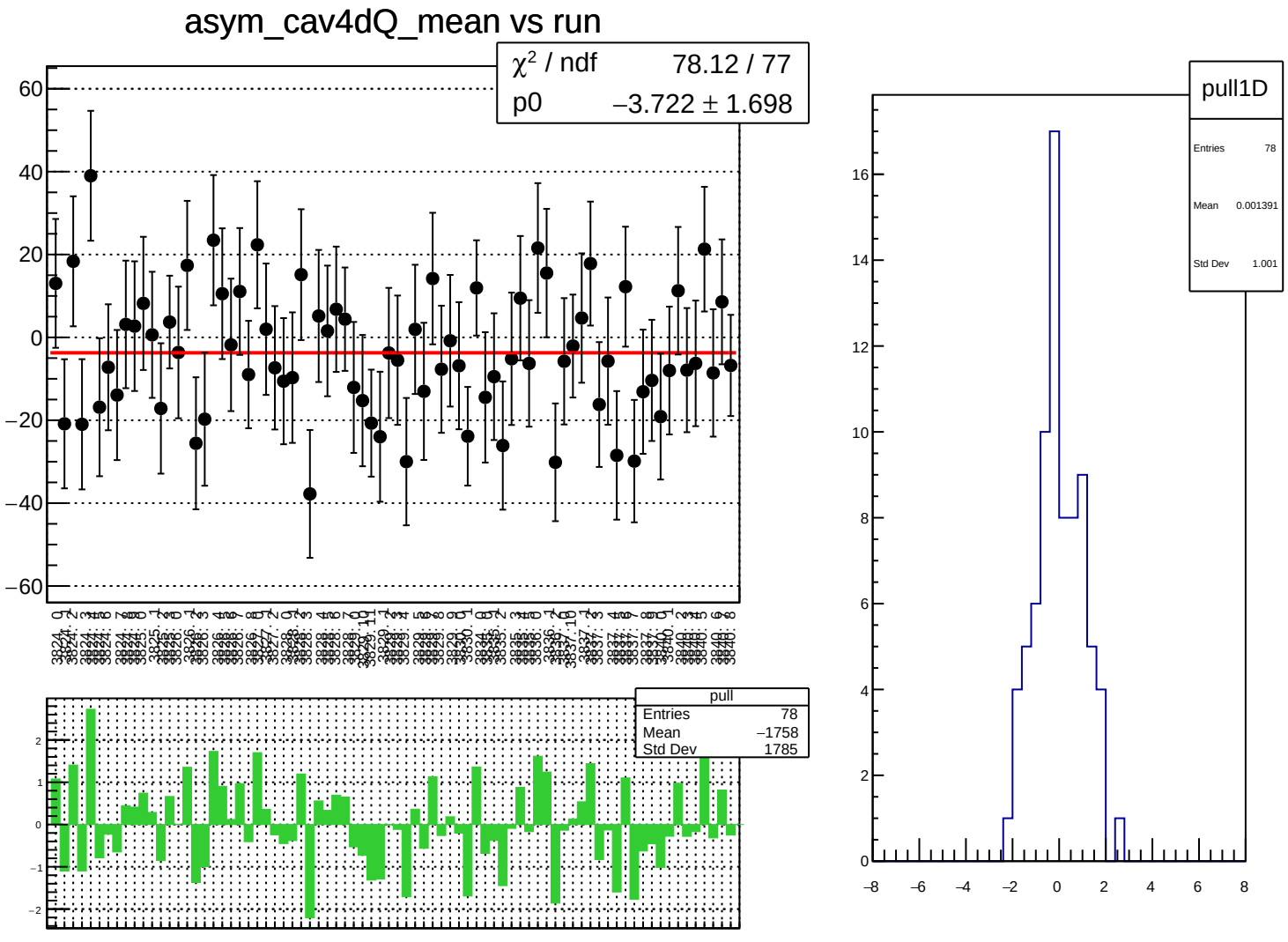

pull1D
Entries 78
Mean 0.005227
Std Dev 0.9454
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

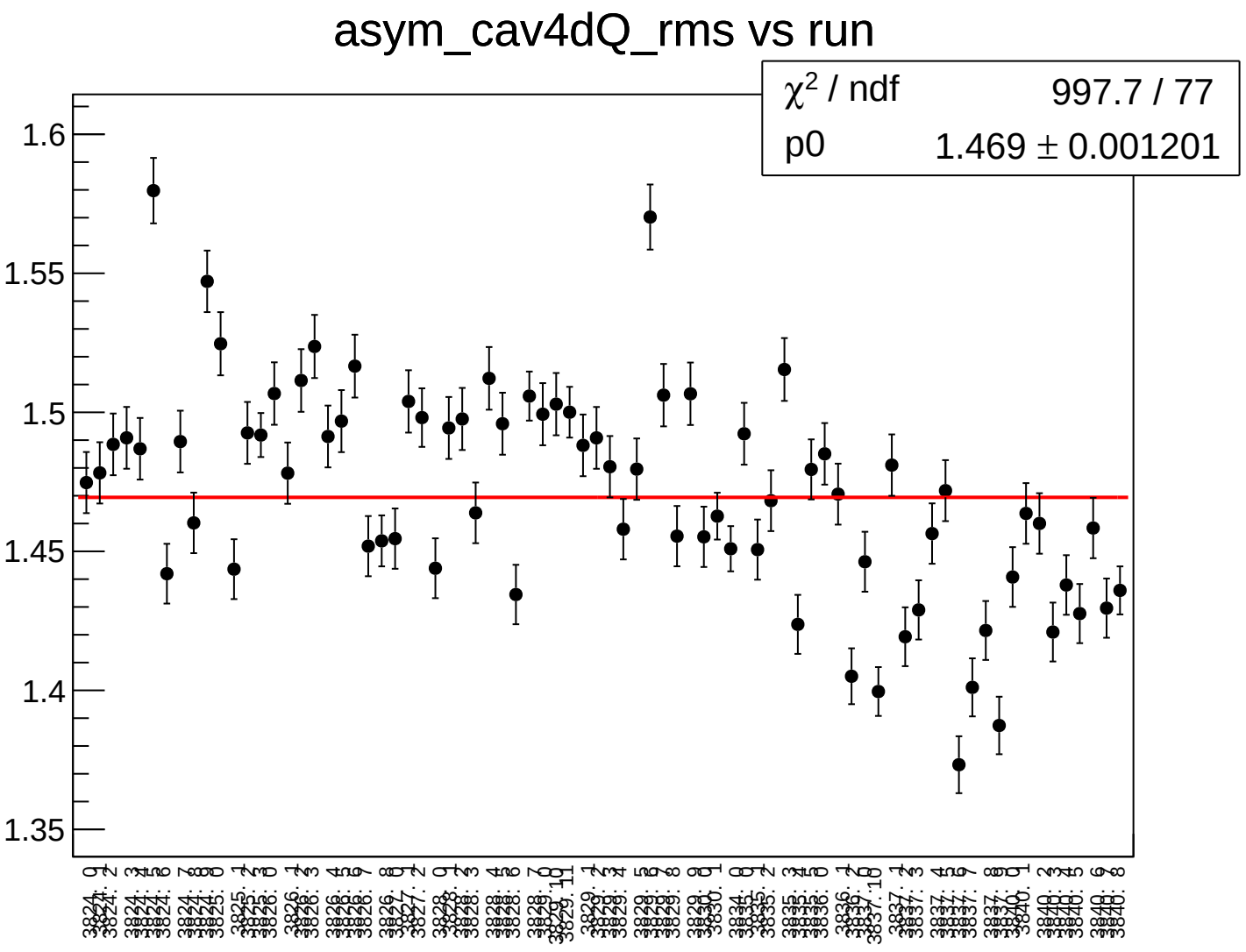

asym_cav4bQ_rms vs run
χ² / ndf 4148 / 77
p0 2.815 ± 0.002303
3.2
3.1
3
2.9
2.8
2.7
2.6
2.5
2.4

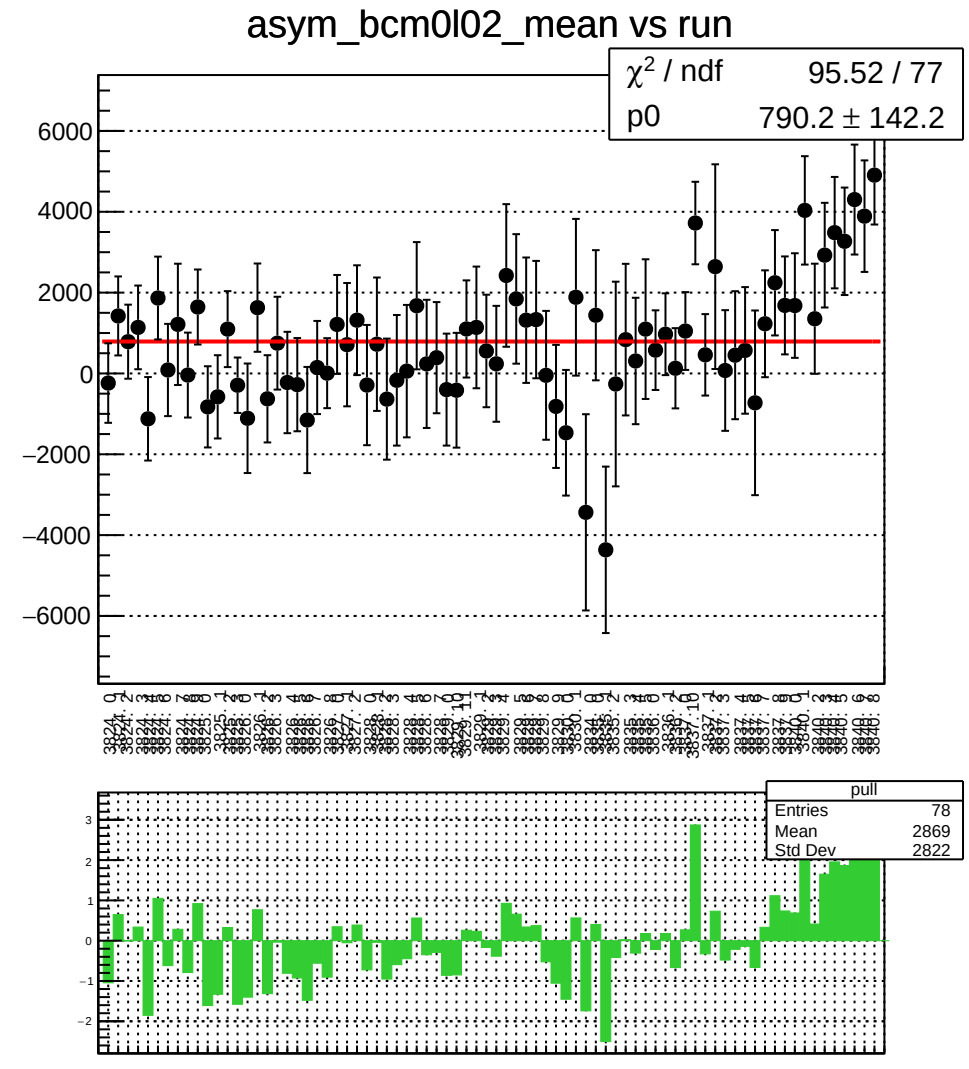

asym_cav4cQ_mean vs run
χ² / ndf 17.82 / 77
p0 53.77 ± 156.8
pull
Entries 78
Mean 185
Std Dev 145.4

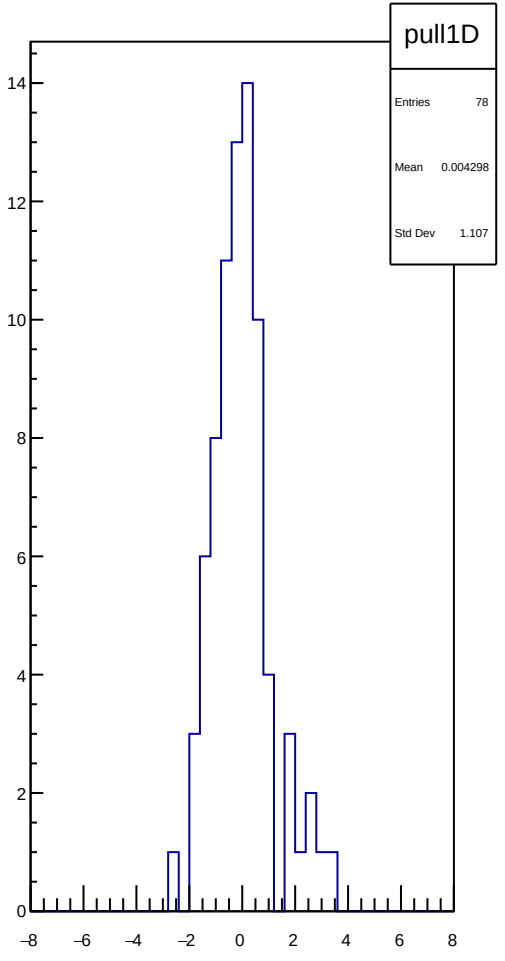

pull1D
Entries 78
Mean −0.01097
Std Dev 0.4778

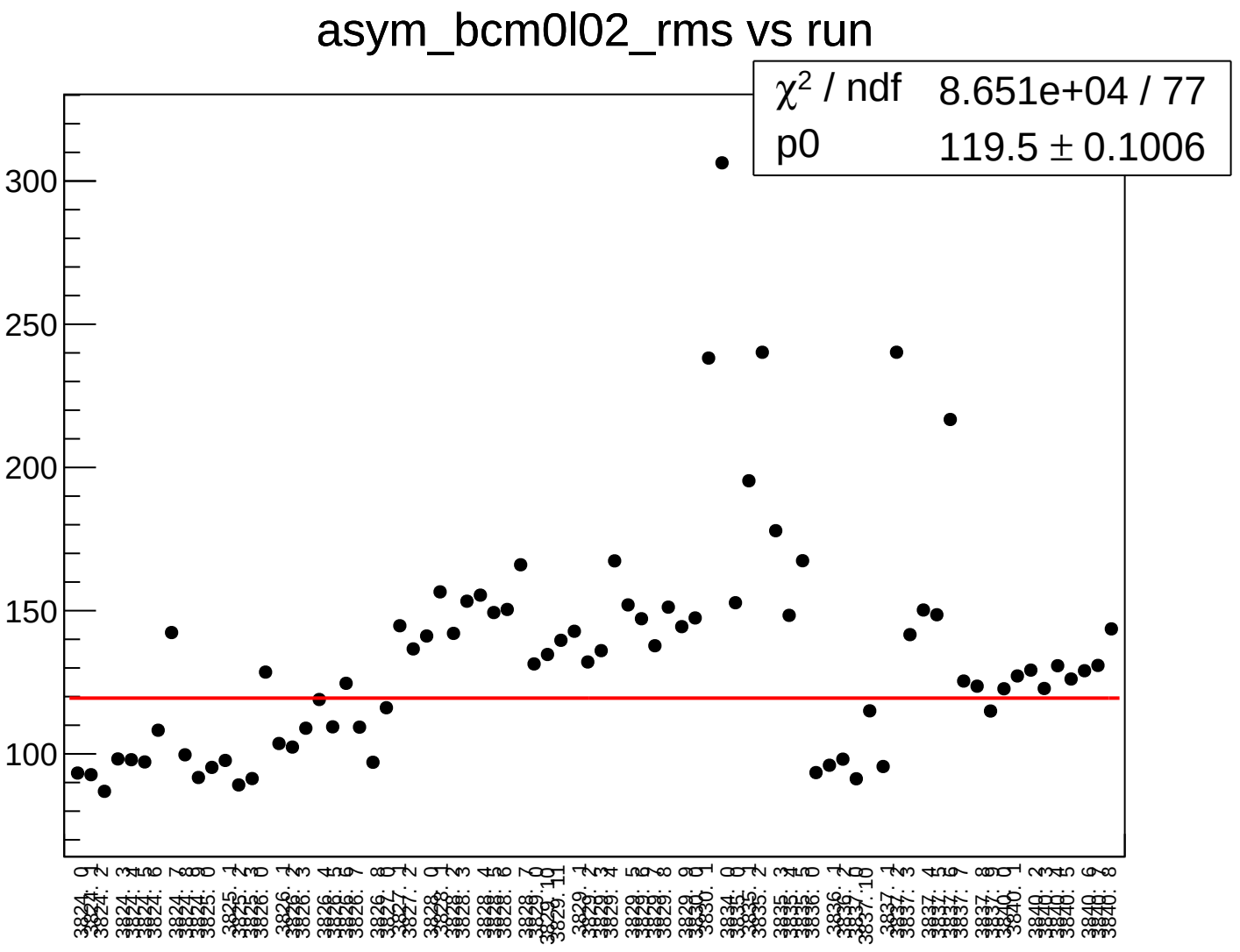

asym_cav4cQ_rms vs run
χ² / ndf 3.599e+04 / 77
p0 134.1 ± 0.1109
200
180
160
140
120
100

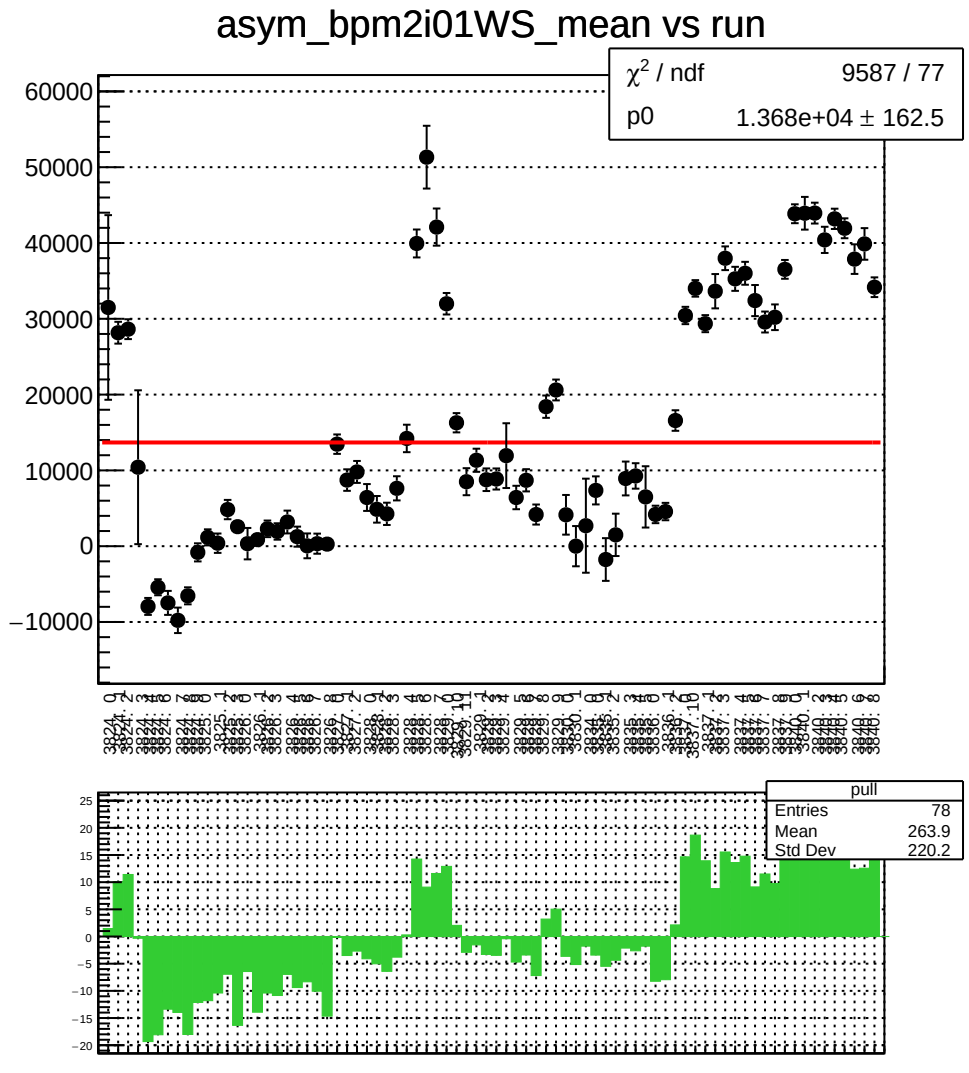

asym_cav4dQ_mean vs run
χ² / ndf 78.12 / 77
p0 −3.722 ± 1.698
pull
Entries 78
Mean −1758
Std Dev 1785
pull1D
Entries 78
Mean 0.001391
Std Dev 1.001

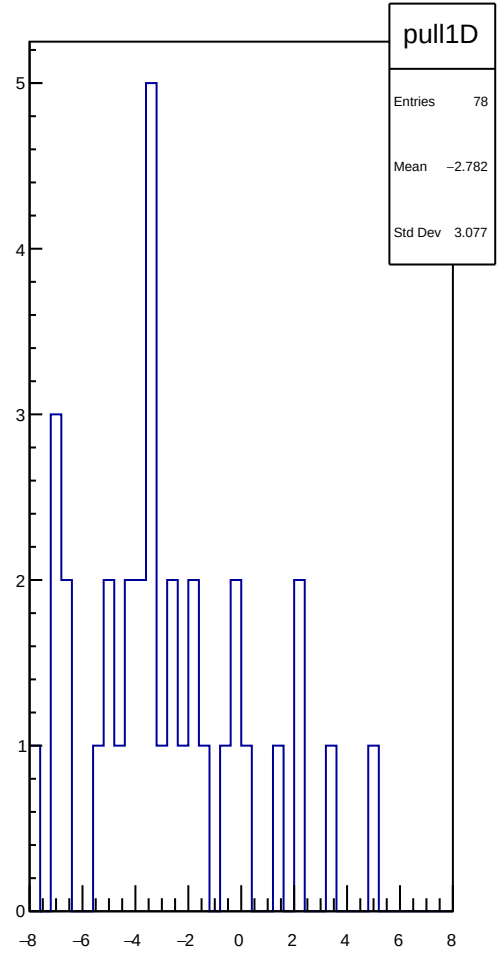

asym_cav4dQ_rms vs run
χ^2 / ndf 997.7 / 77
p0 1.469 ± 0.001201
1.6
1.55
1.5
1.45
1.4
1.35

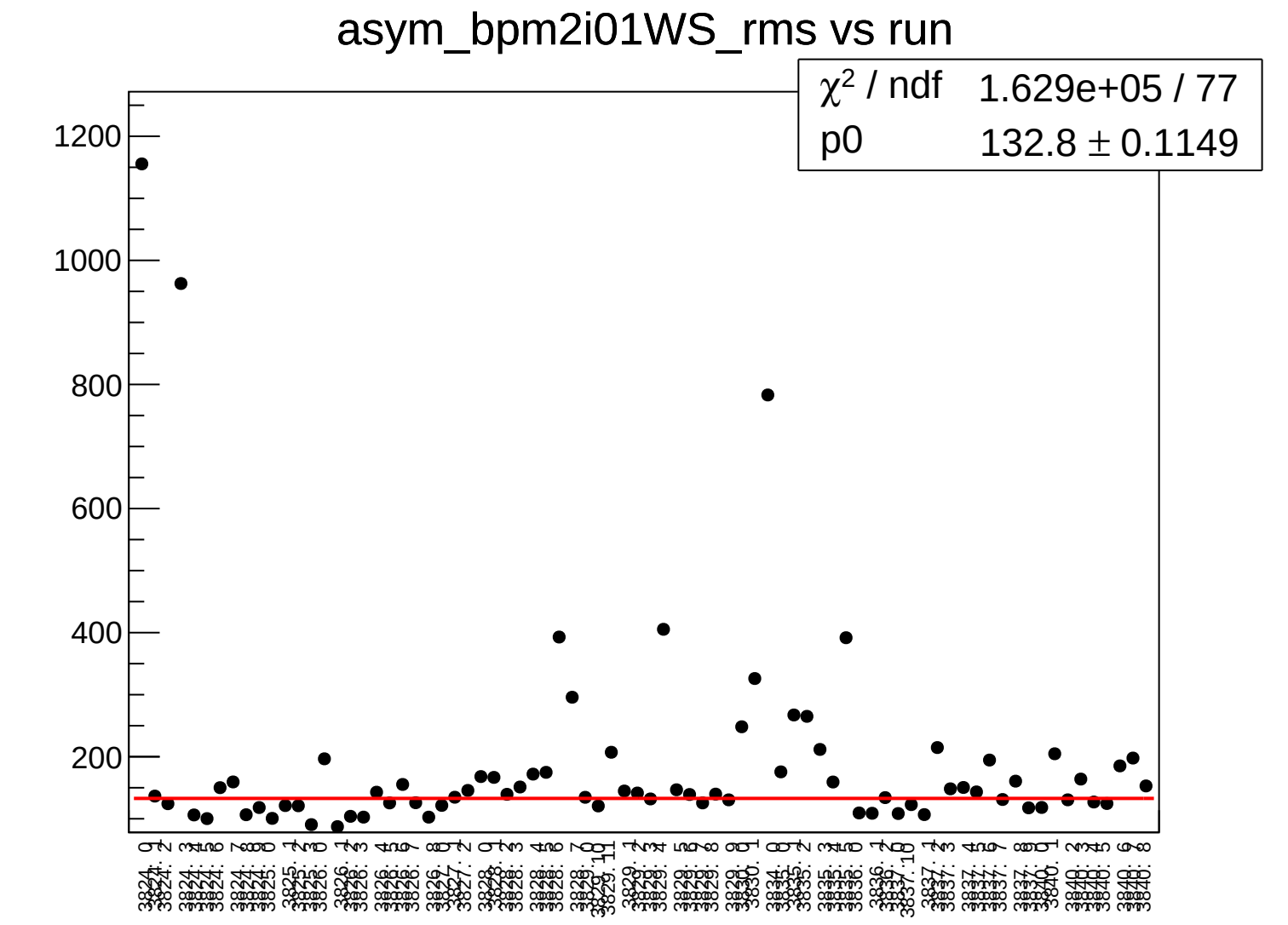

asym_bcm0l02_mean vs run
χ² / ndf 95.52 / 77
p0 790.2 ± 142.2
pull
Entries 78
Mean 2869
Std Dev 2822

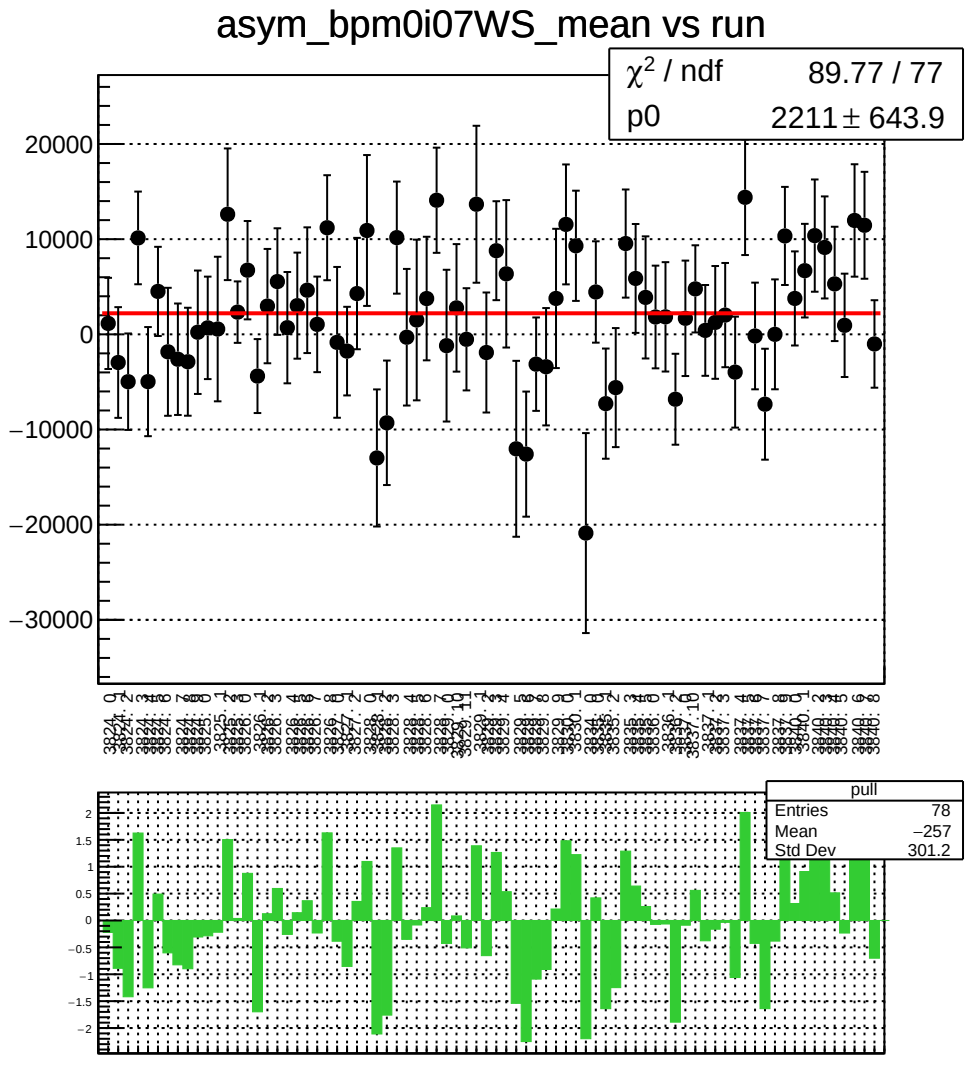

pull1D
Entries 78
Mean 0.004298
Std Dev 1.107

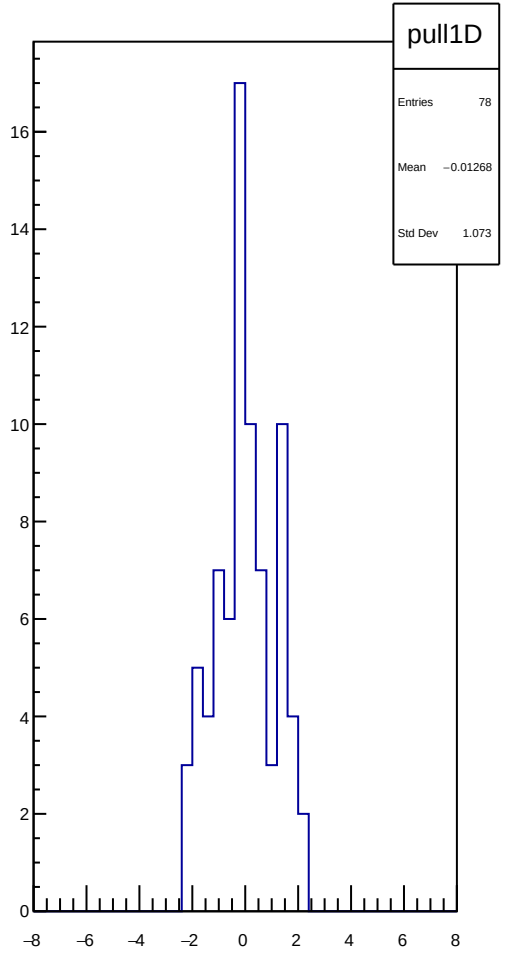

asym_bcm0l02_rms vs run
χ² / ndf 8.651e+04 / 77
p0 119.5 ± 0.1006
300
250
200
150
100


asym_bpm2i01WS_mean vs run
χ² / ndf 9587 / 77
p0 1.368e+04 ± 162.5
pull
Entries 78
Mean 263.9
Std Dev 220.2

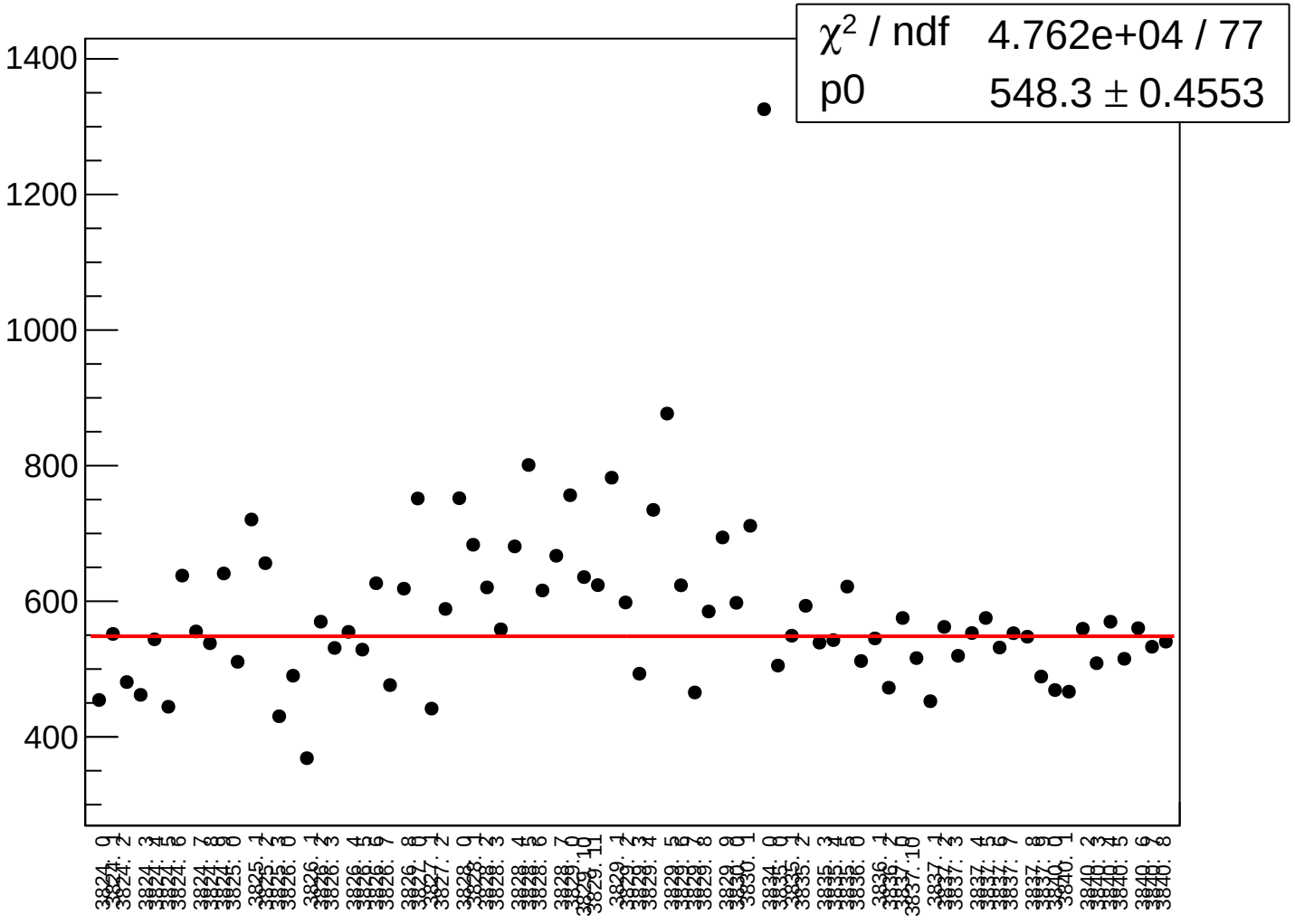

pull1D
Entries 78
Mean −2.782
Std Dev 3.077

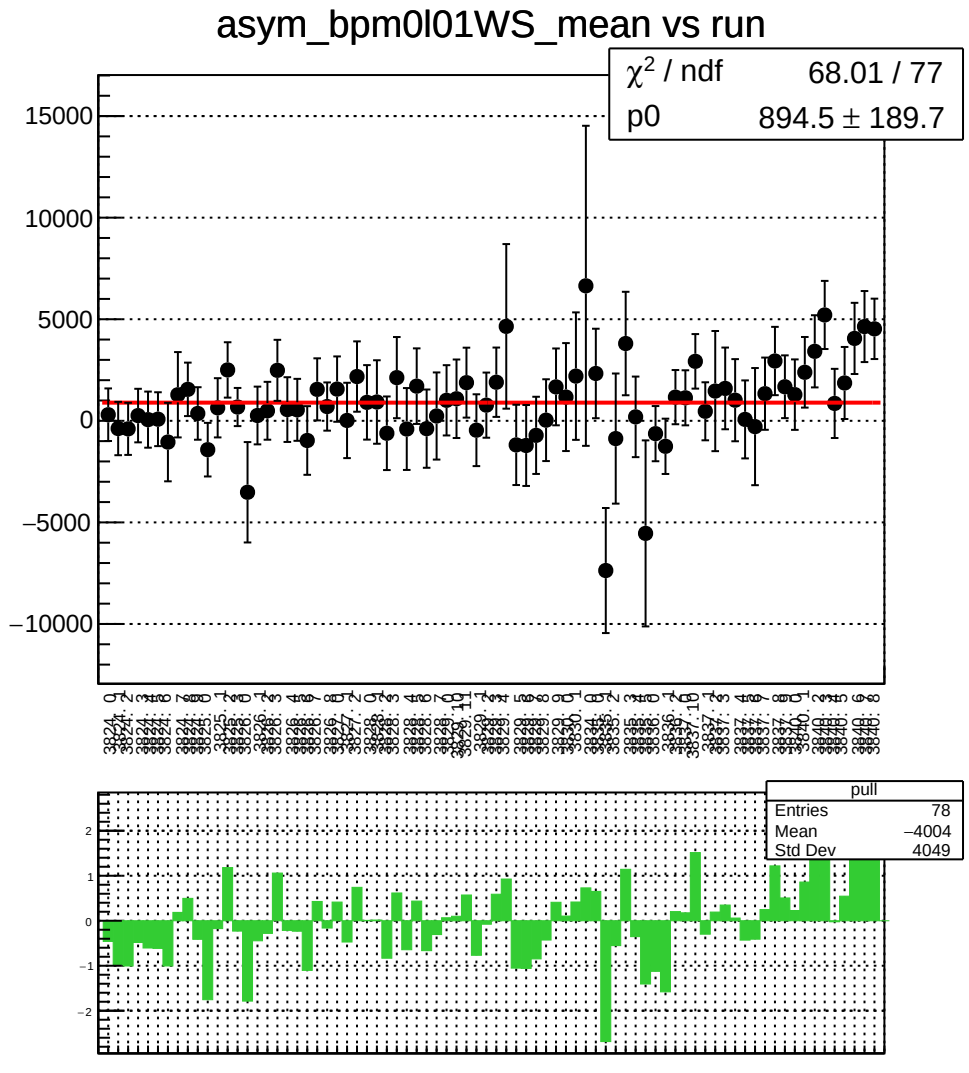

asym_bpm2i01WS_rms vs run
χ² / ndf 1.629e+05 / 77
p0 132.8 ± 0.1149
1200
1000
800
600
400
200

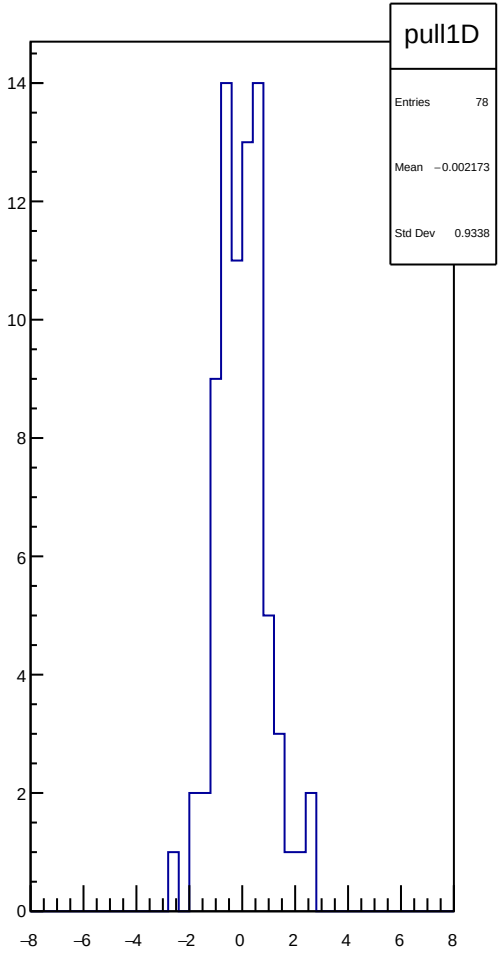

asym_bpm0i07WS_mean vs run
χ² / ndf 89.77 / 77
p0 2211 ± 643.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean −257
Std Dev 301.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

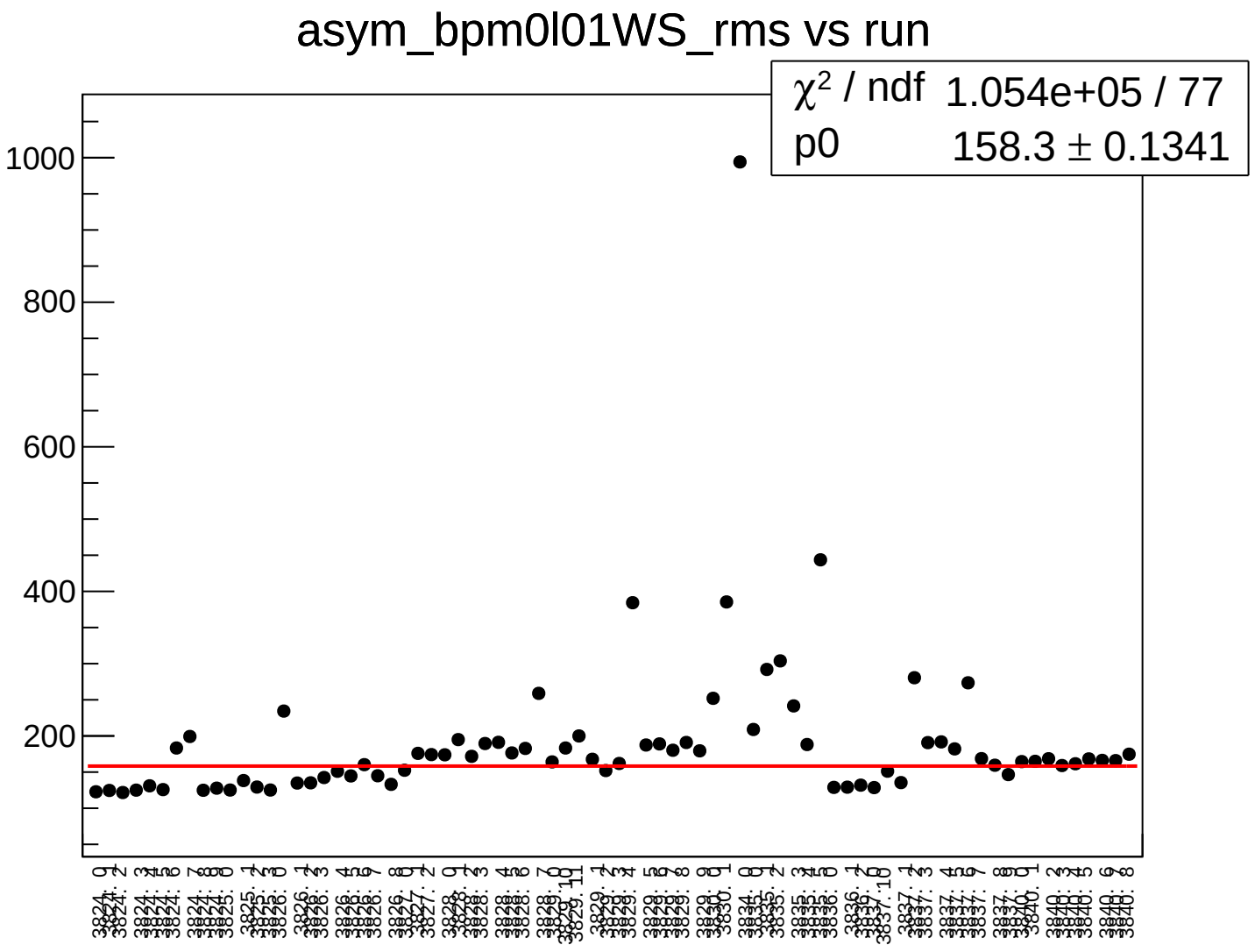

pull1D
Entries 78
Mean −0.01268
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

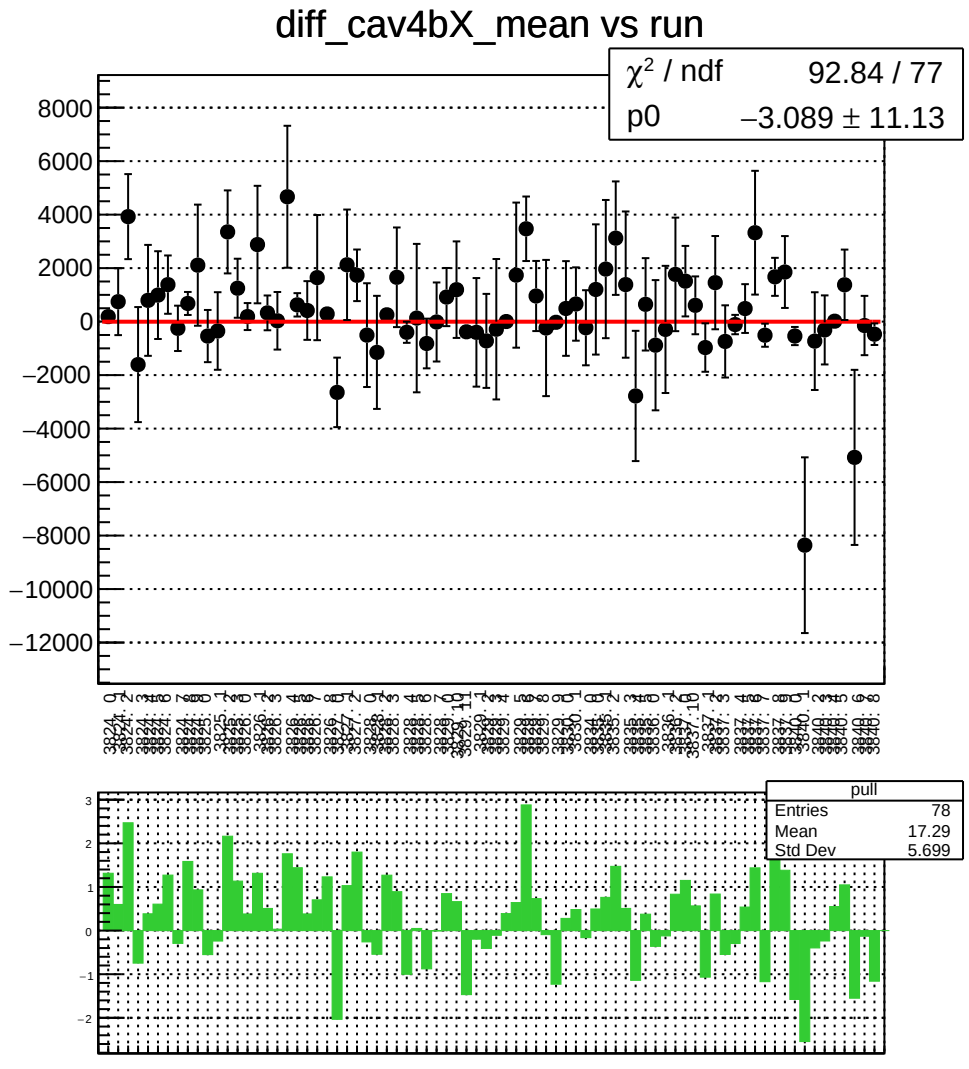
asym_bpm0i07WS_rms vs run

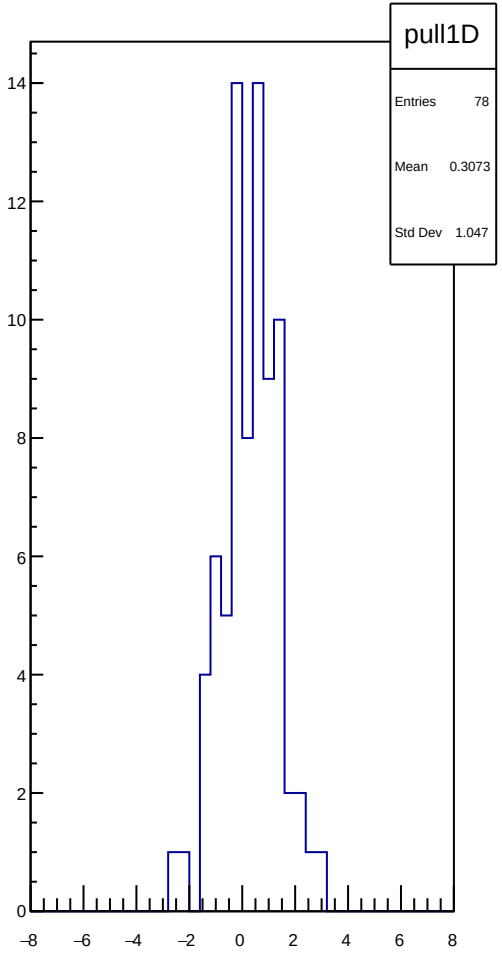


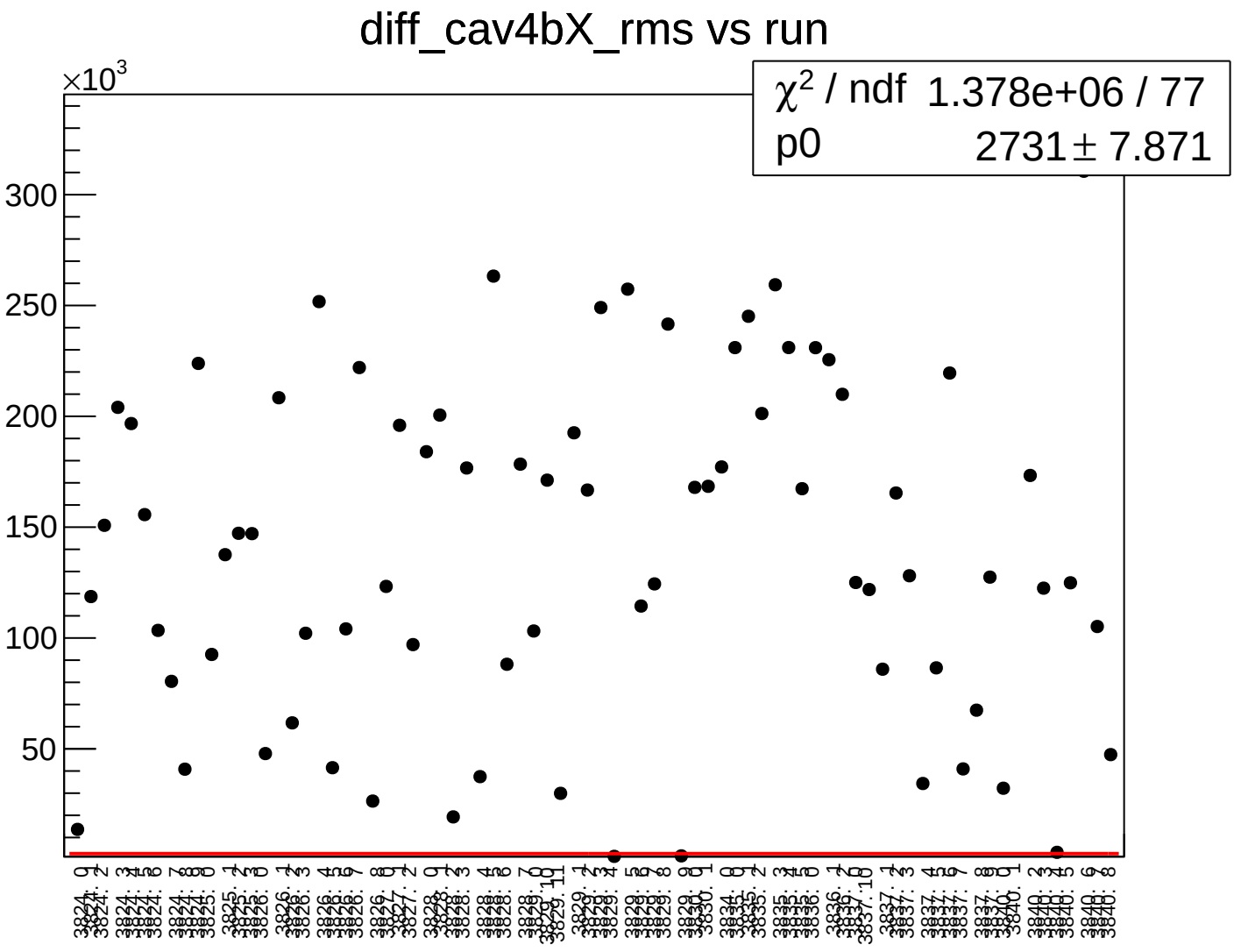

asym_bpm0l01WS_mean vs run
χ² / ndf 68.01 / 77
p0 894.5 ± 189.7
15000
10000
5000
0
−5000
−10000
pull
Entries 78
Mean −4004
Std Dev 4049
2
1
0
−1
−2

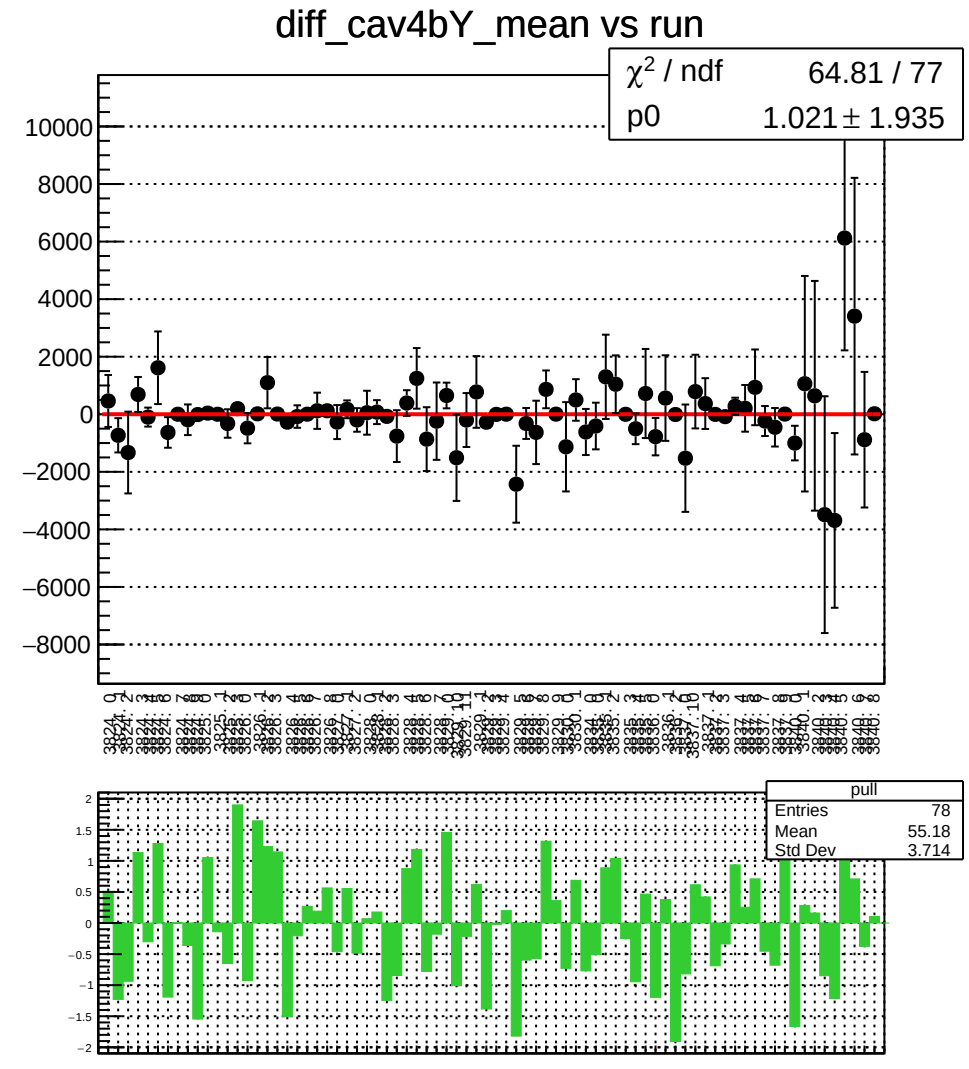

pull1D
Entries 78
Mean −0.002173
Std Dev 0.9338
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

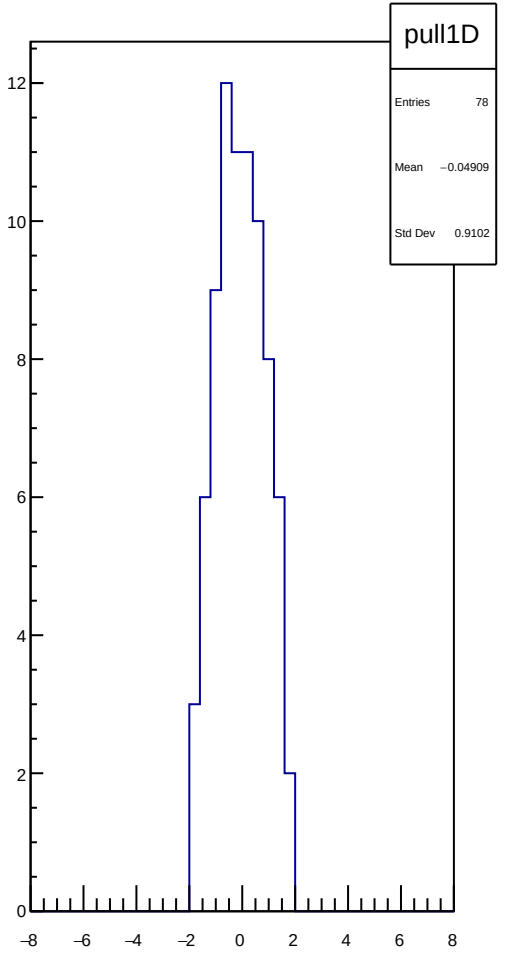

asym_bpm0l01WS_rms vs run
χ² / ndf 1.054e+05 / 77
p0 158.3 ± 0.1341
1000
800
600
400
200

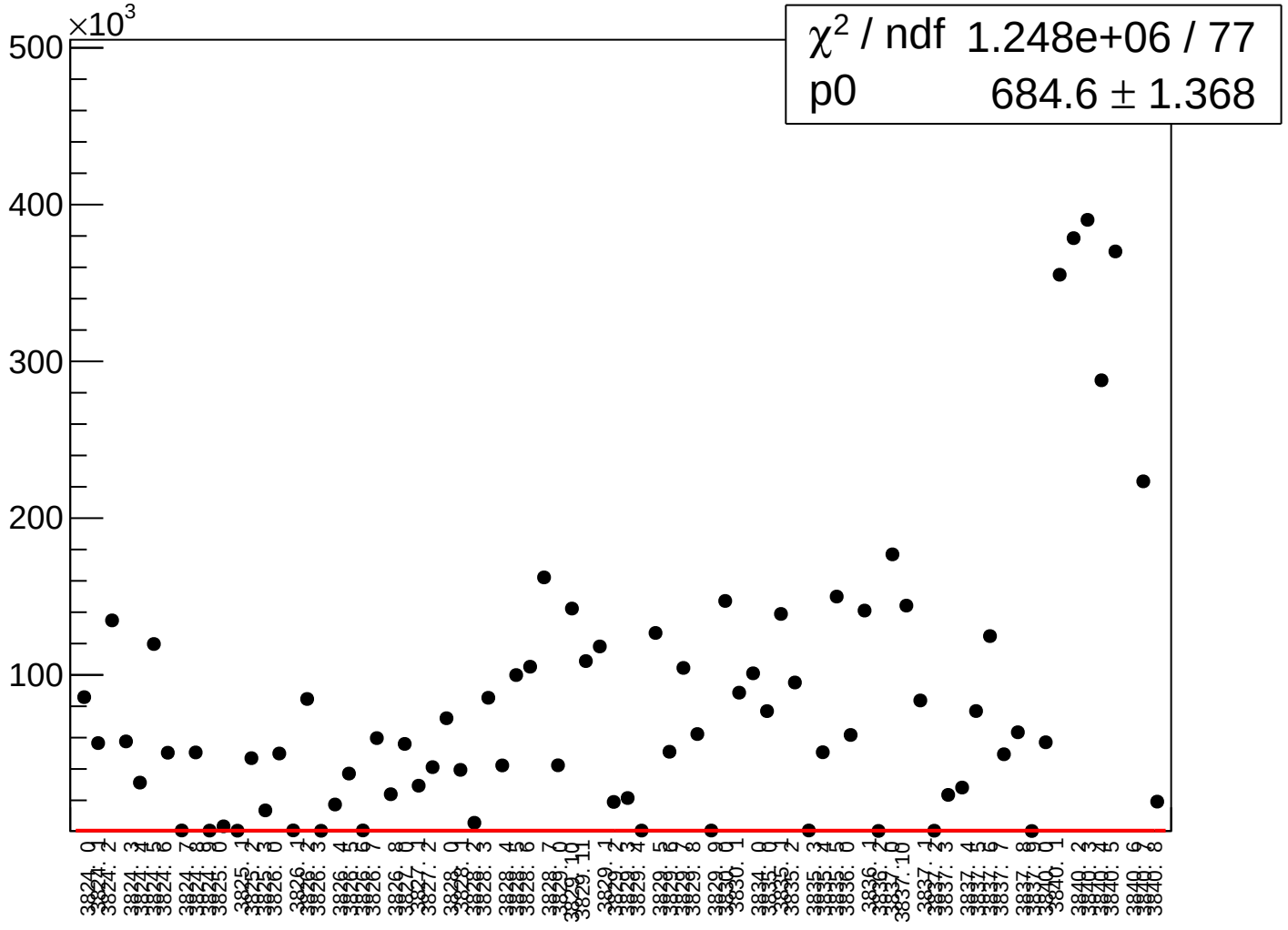

diff_cav4bX_mean vs run
χ² / ndf 92.84 / 77
p0 −3.089 ± 11.13
pull
Entries 78
Mean 17.29
Std Dev 5.699

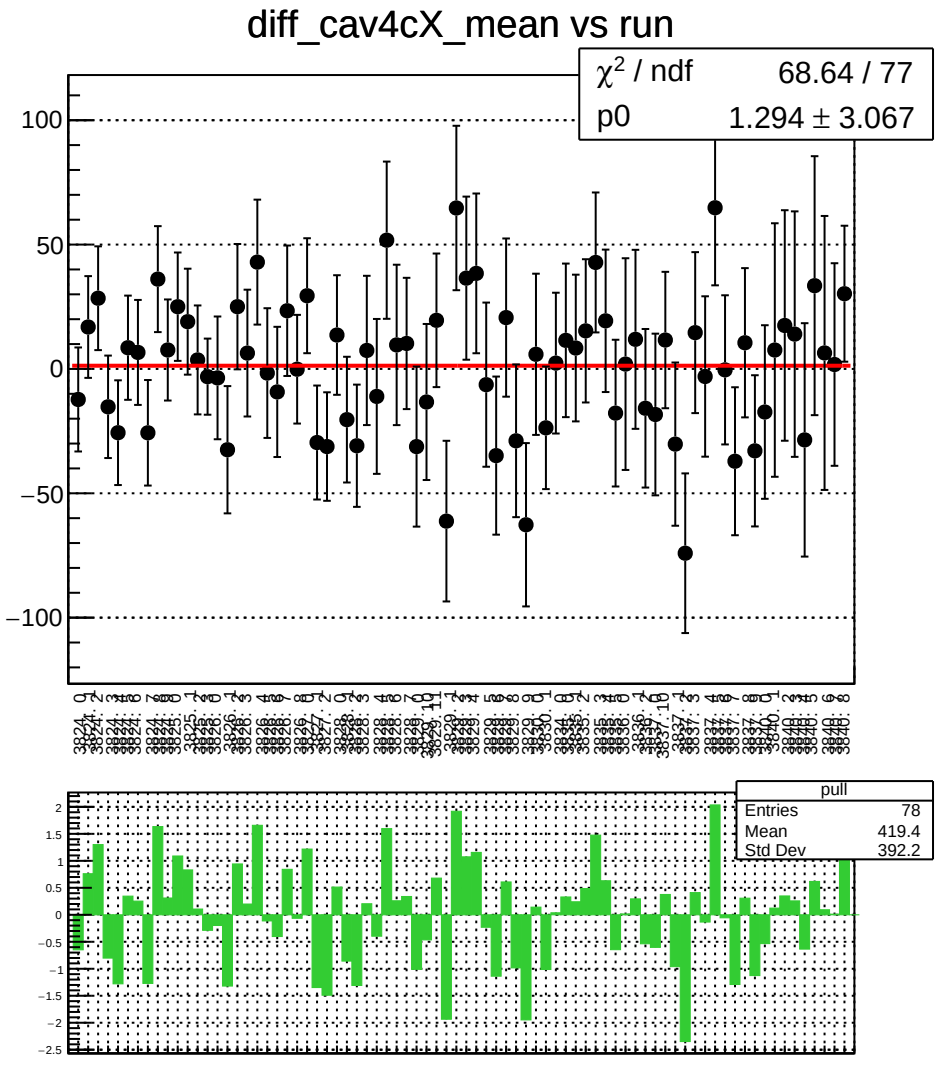

pull1D
Entries 78
Mean 0.3073
Std Dev 1.047

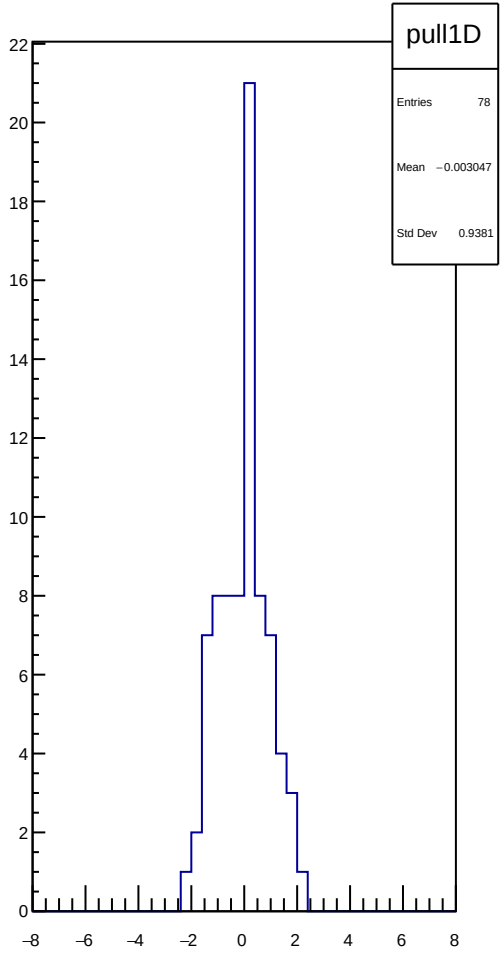

diff_cav4bX_rms vs run
×10^3
χ^2 / ndf 1.378e+06 / 77
p0 2731 ± 7.871
300
250
200
150
100
50

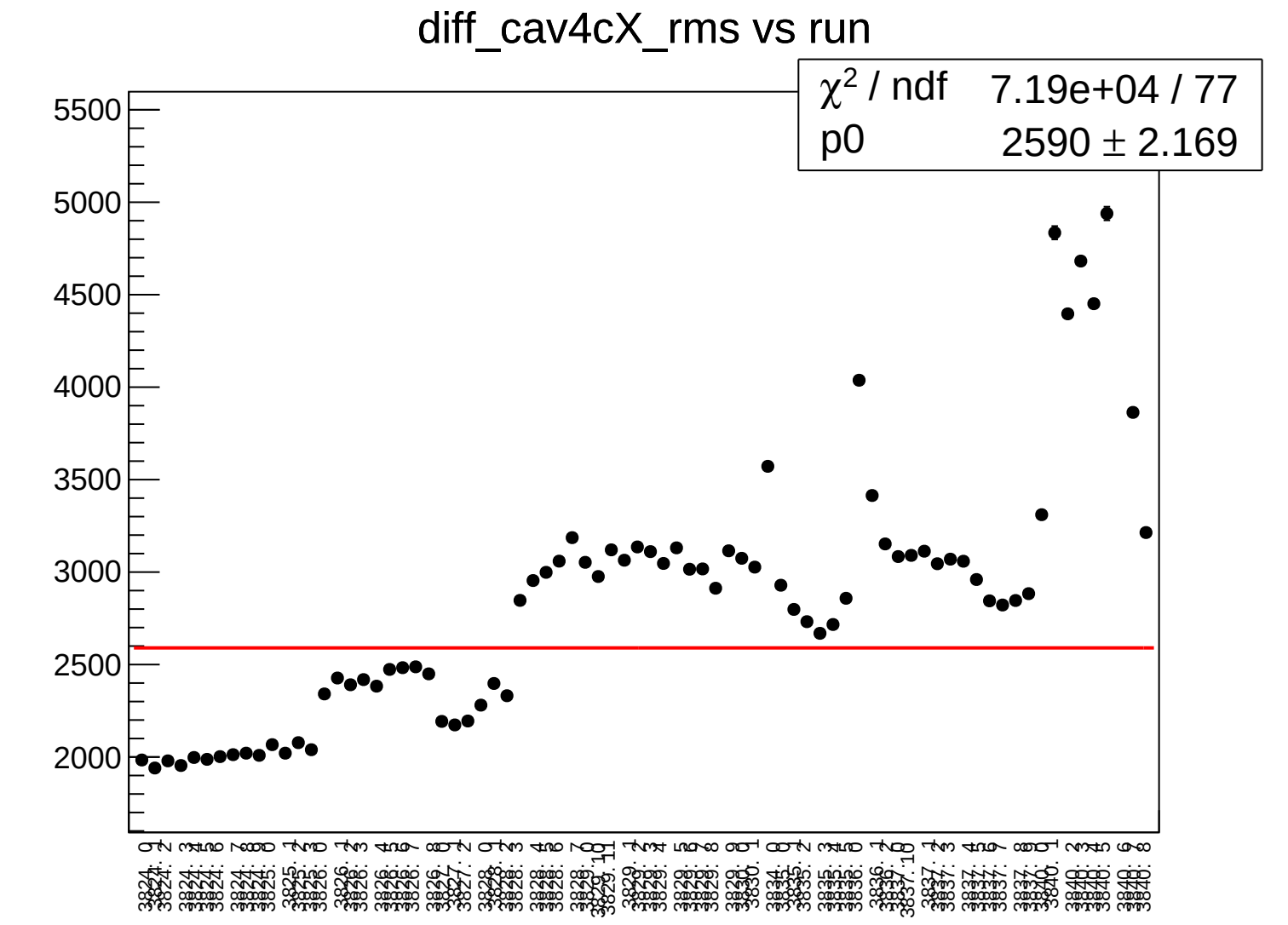

diff_cav4bY_mean vs run
χ^2 / ndf 64.81 / 77
p0 1.021 ± 1.935
pull
Entries 78
Mean 55.18
Std Dev 3.714

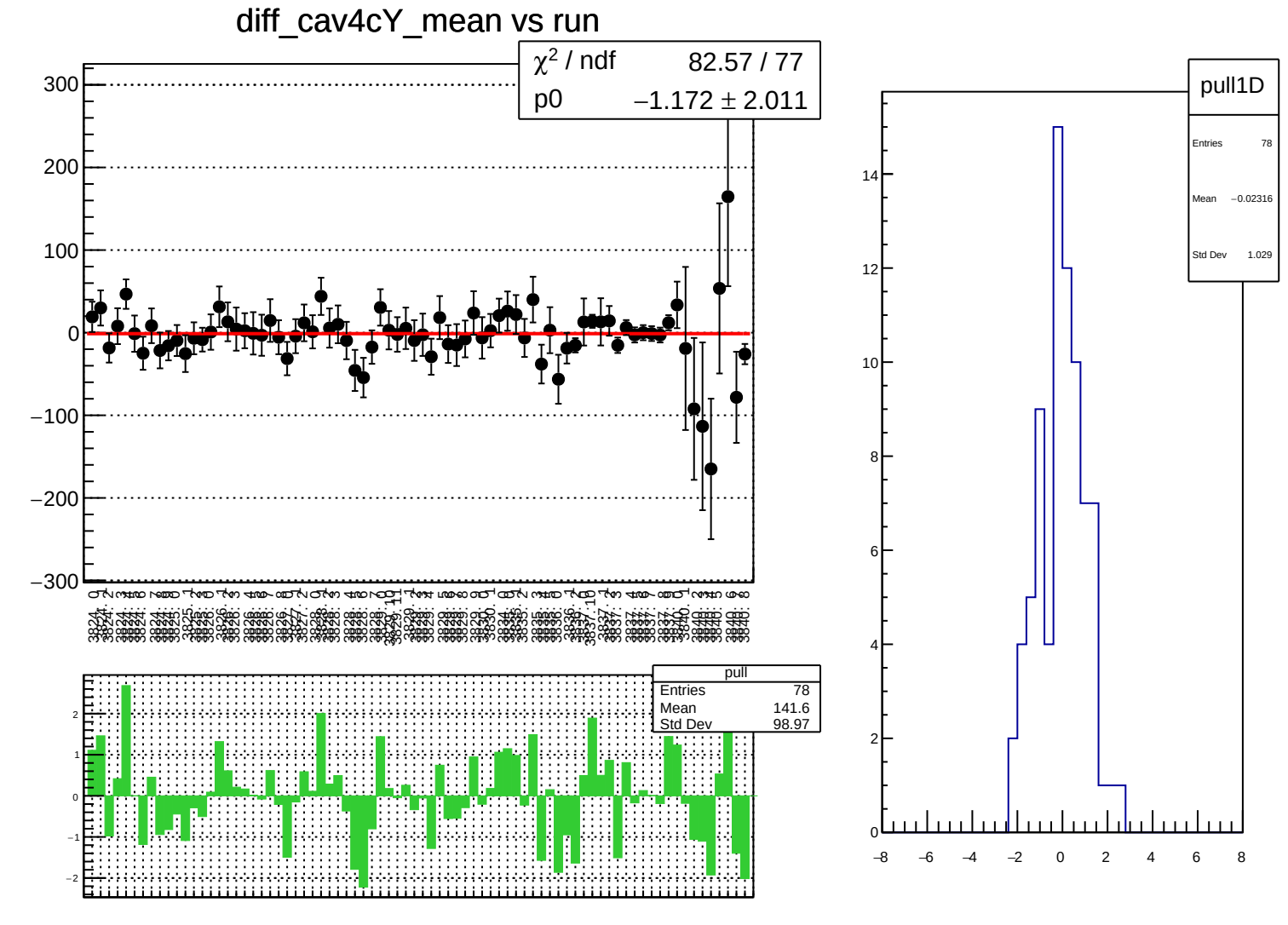

pull1D
Entries 78
Mean −0.04909
Std Dev 0.9102

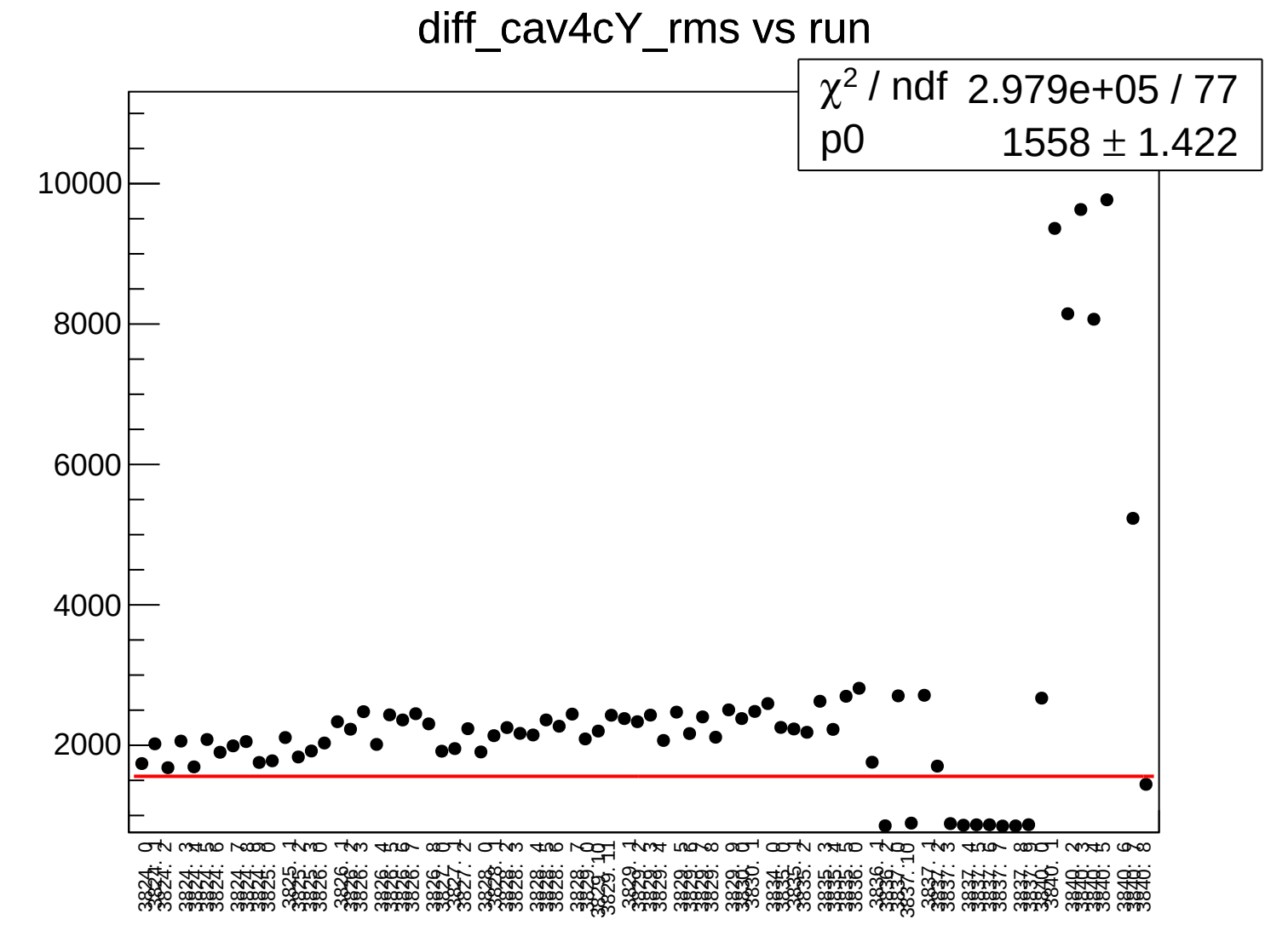

diff_cav4bY_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 1.248e+06 / 77
p0 684.6 ± 1.368

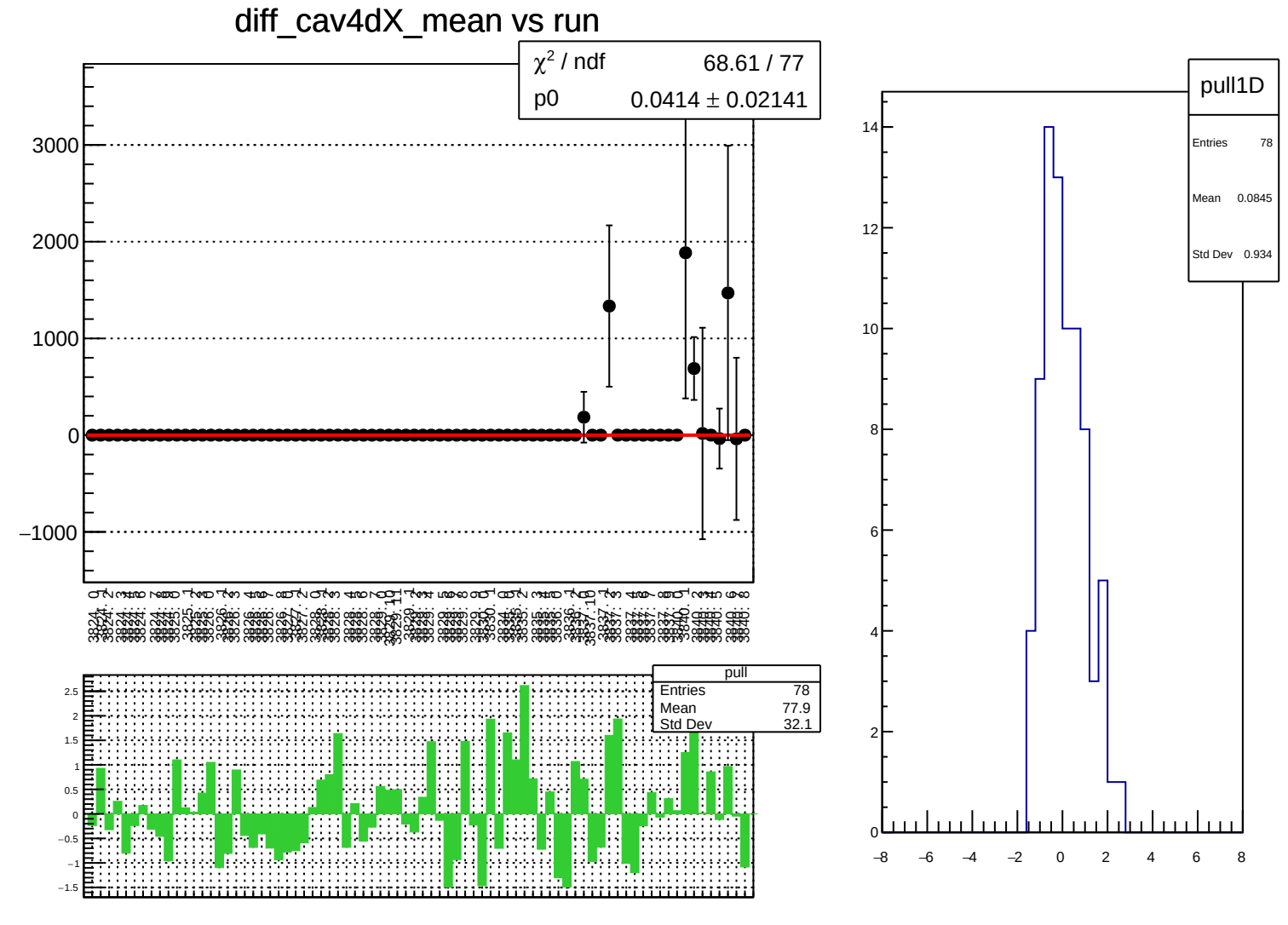

diff_cav4cX_mean vs run
χ^2 / ndf 68.64 / 77
p0 1.294 ± 3.067
100
50
0
−50
−100
pull
Entries 78
Mean 419.4
Std Dev 392.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

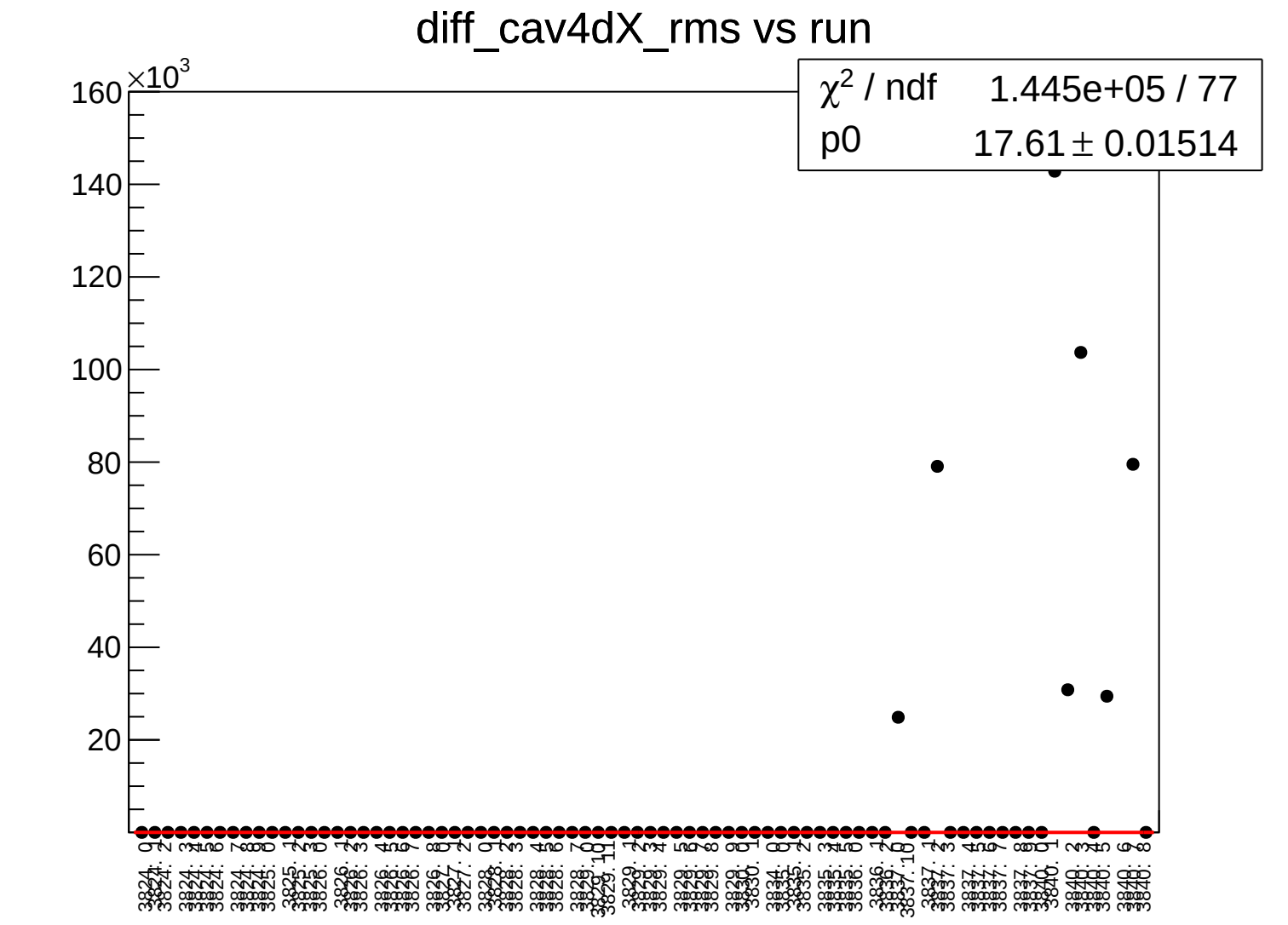

pull1D
Entries 78
Mean −0.003047
Std Dev 0.9381
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

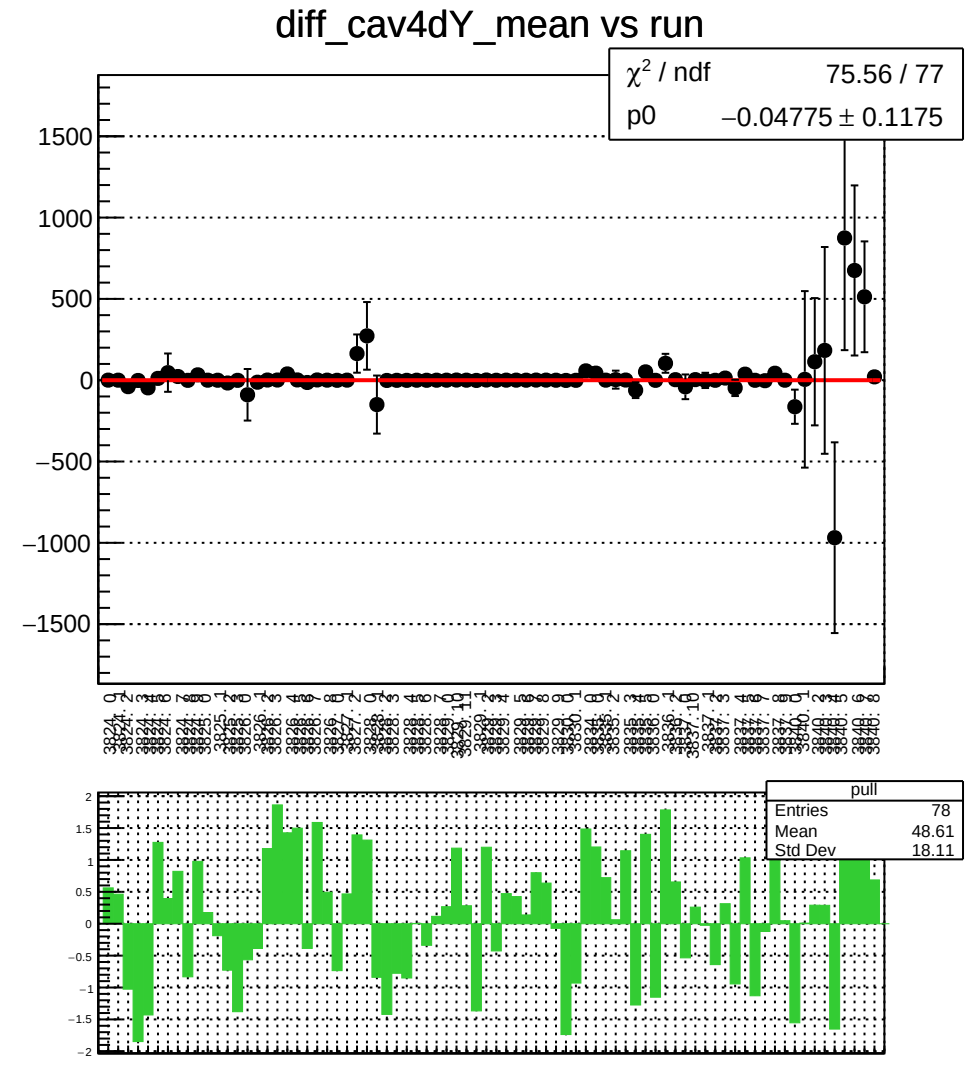

diff_cav4cX_rms vs run
χ² / ndf 7.19e+04 / 77
p0 2590 ± 2.169
5500
5000
4500
4000
3500
3000
2500
2000

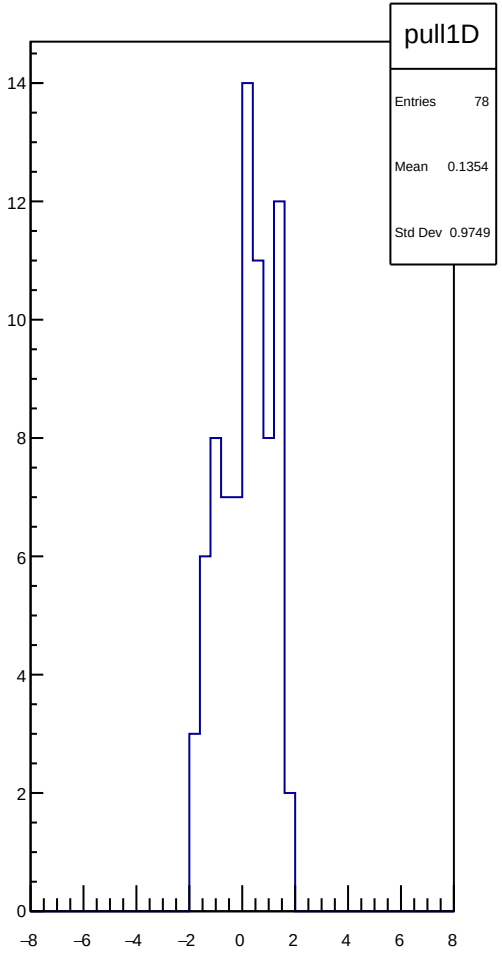

diff_cav4cY_mean vs run
χ² / ndf 82.57 / 77
p0 −1.172 ± 2.011
pull
Entries 78
Mean 141.6
Std Dev 98.97
pull1D
Entries 78
Mean −0.02316
Std Dev 1.029

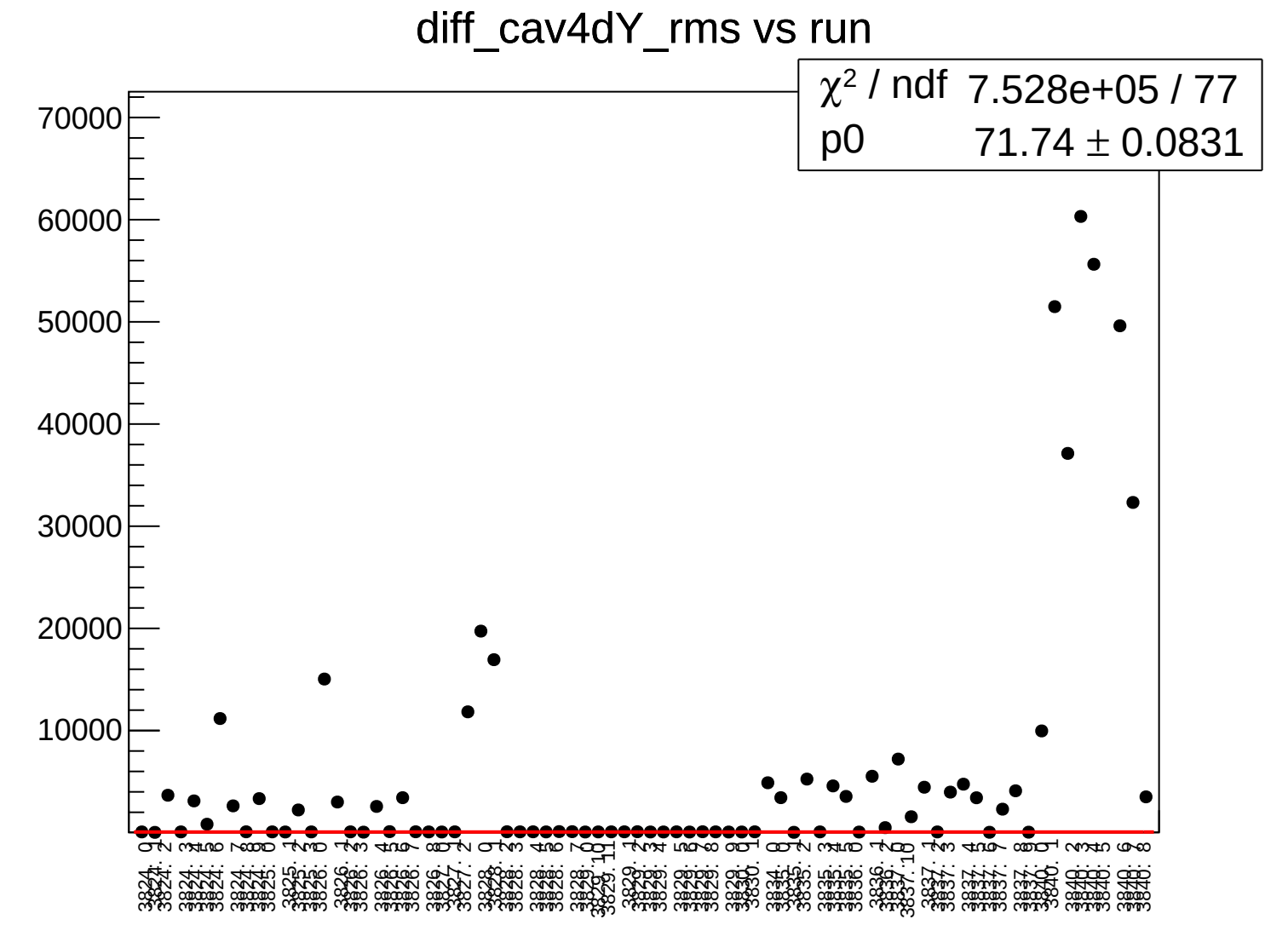

diff_cav4cY_rms vs run
χ² / ndf 2.979e+05 / 77
p0 1558 ± 1.422
10000
8000
6000
4000
2000

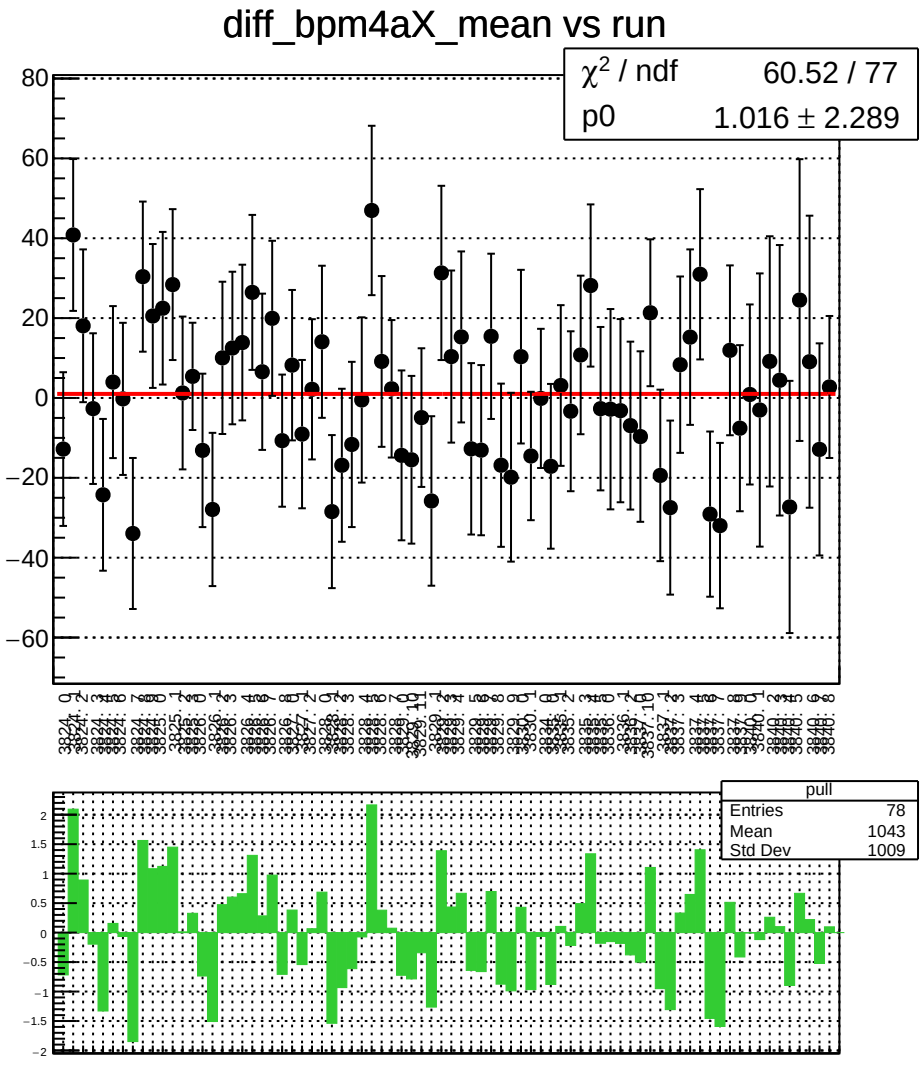

diff_cav4dX_mean vs run
χ² / ndf 68.61 / 77
p0 0.0414 ± 0.02141
3000
2000
1000
0
−1000
pull
Entries 78
Mean 77.9
Std Dev 32.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 78
Mean 0.0845
Std Dev 0.934
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

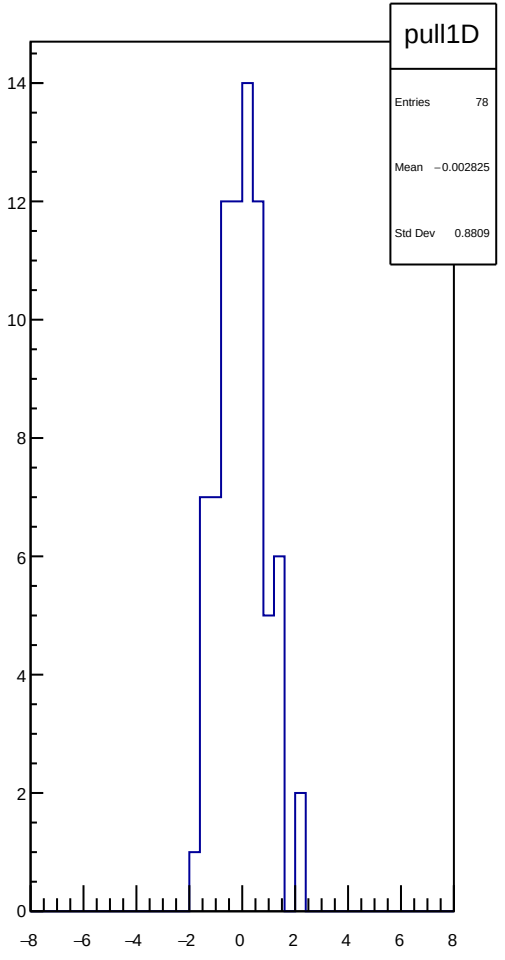

diff_cav4dX_rms vs run
χ^2 / ndf 1.445e+05 / 77
p0 17.61 ± 0.01514
×10^3
160
140
120
100
80
60
40
20

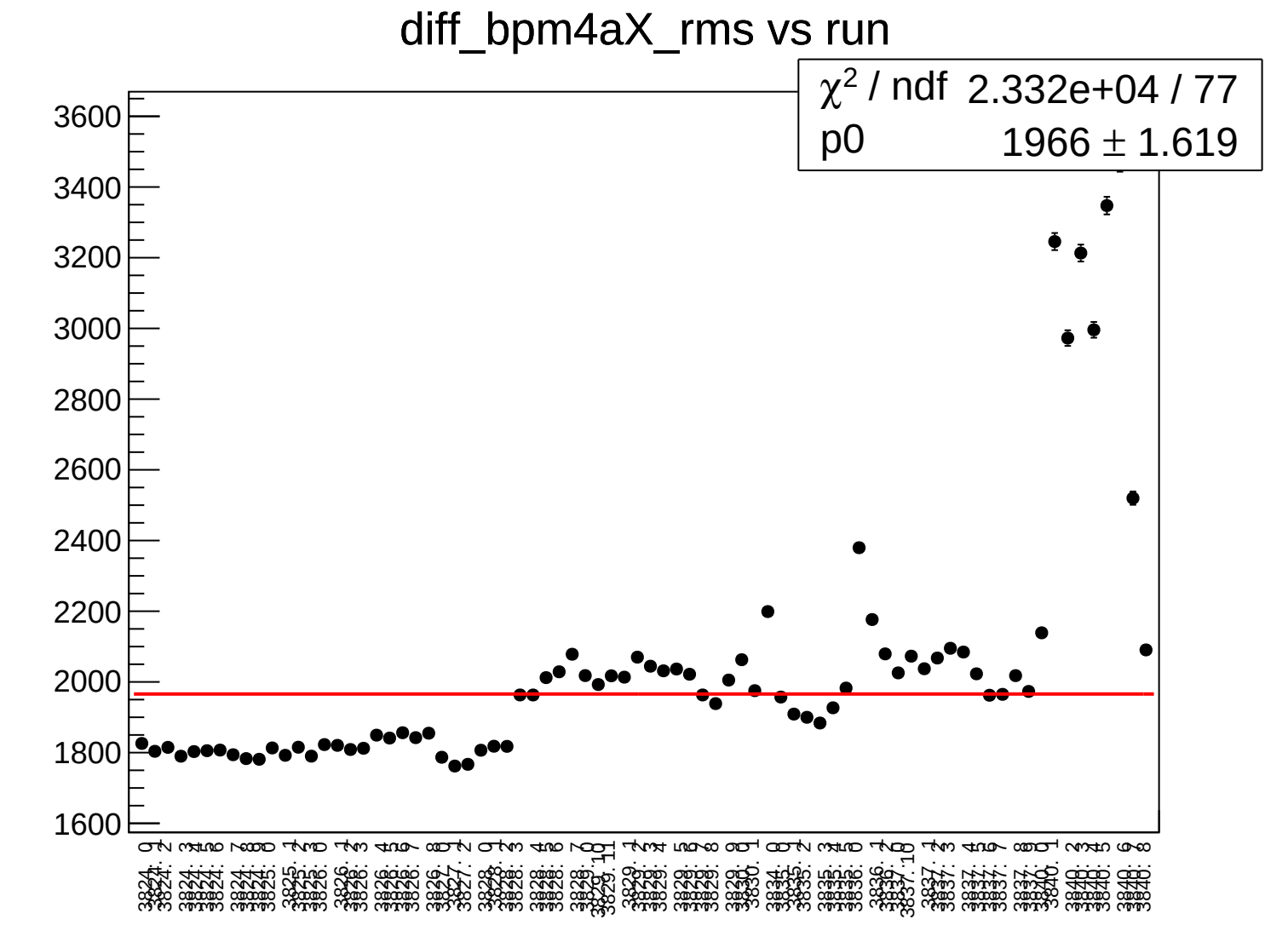

diff_cav4dY_mean vs run
χ² / ndf 75.56 / 77
p0 −0.04775 ± 0.1175
pull
Entries 78
Mean 48.61
Std Dev 18.11

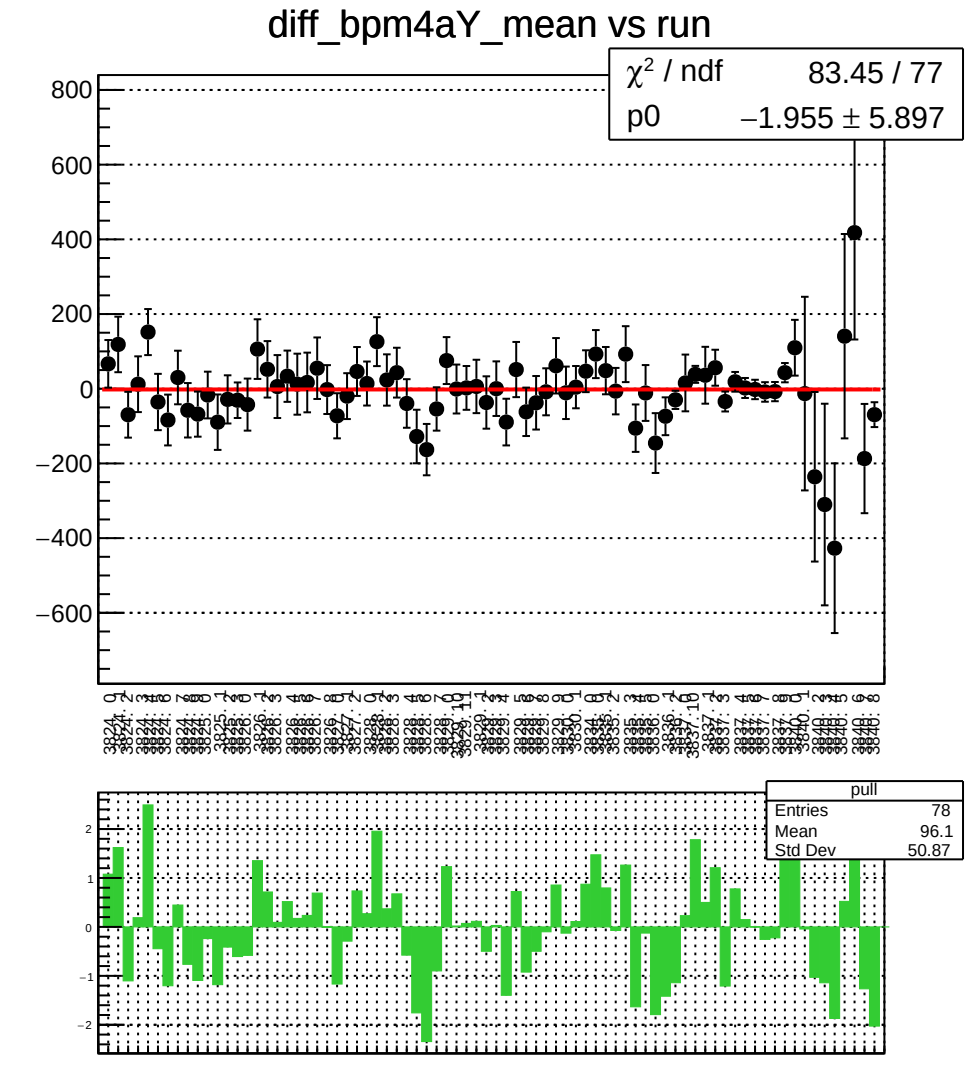

pull1D
Entries 78
Mean 0.1354
Std Dev 0.9749

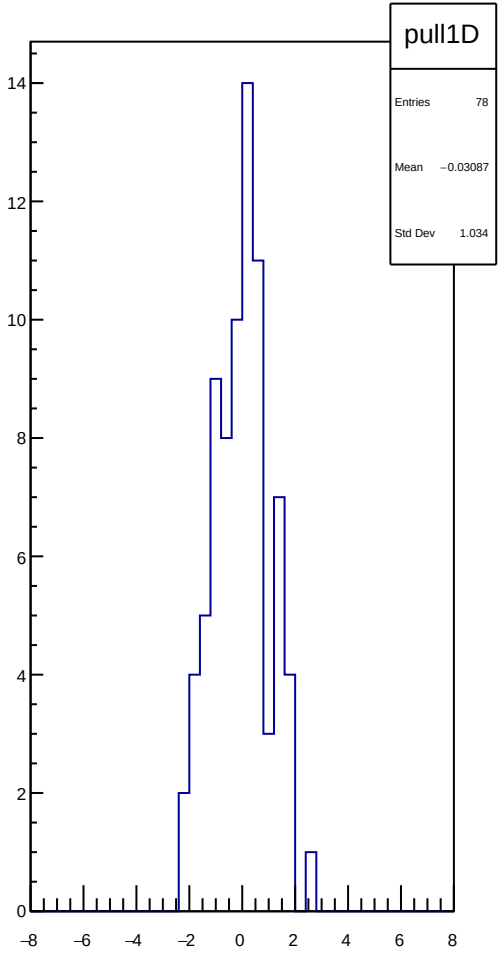

diff_cav4dY_rms vs run
χ² / ndf 7.528e+05 / 77
p0 71.74 ± 0.0831
70000
60000
50000
40000
30000
20000
10000

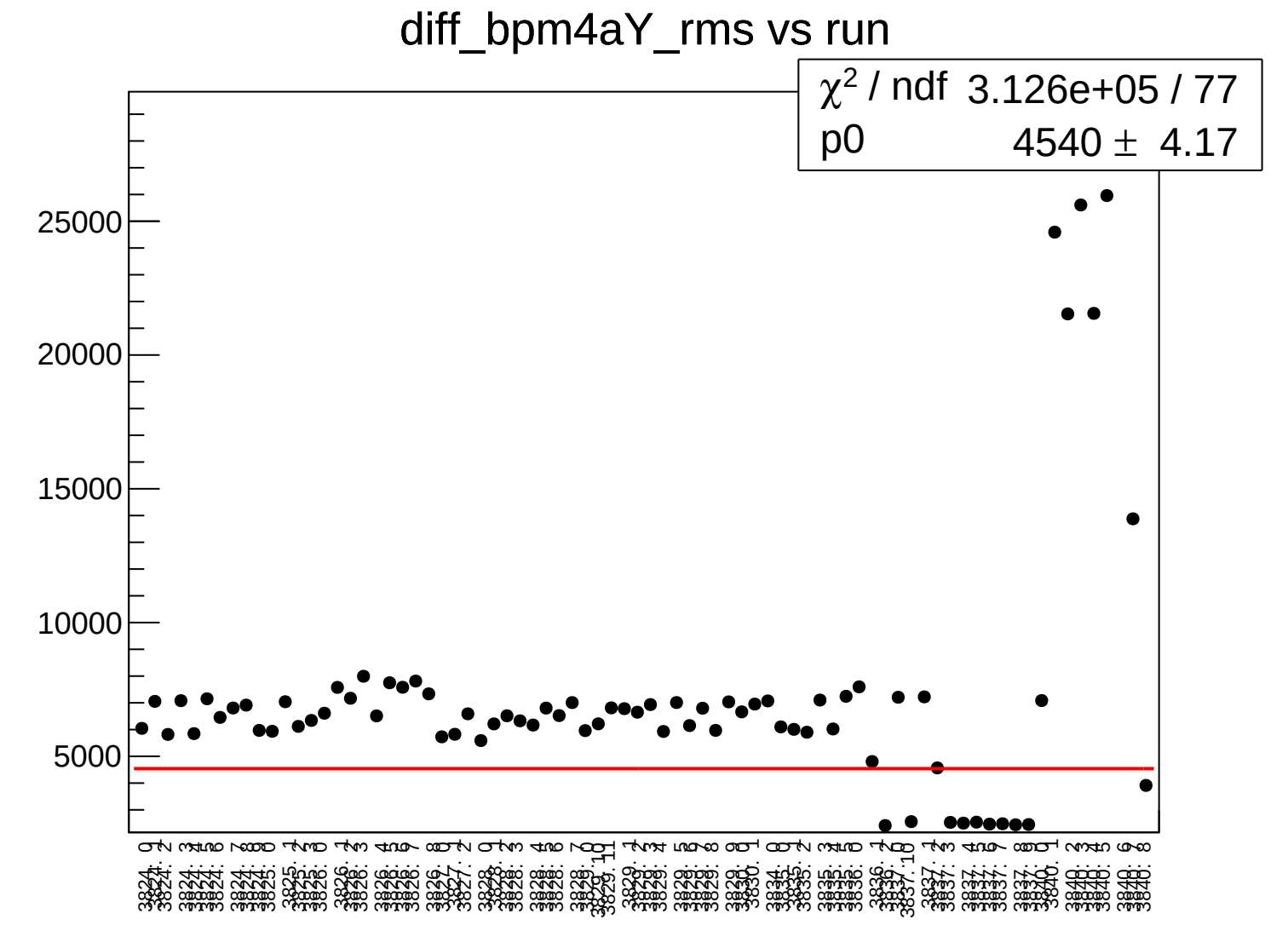

diff_bpm4aX_mean vs run
χ² / ndf 60.52 / 77
p0 1.016 ± 2.289
pull
Entries 78
Mean 1043
Std Dev 1009

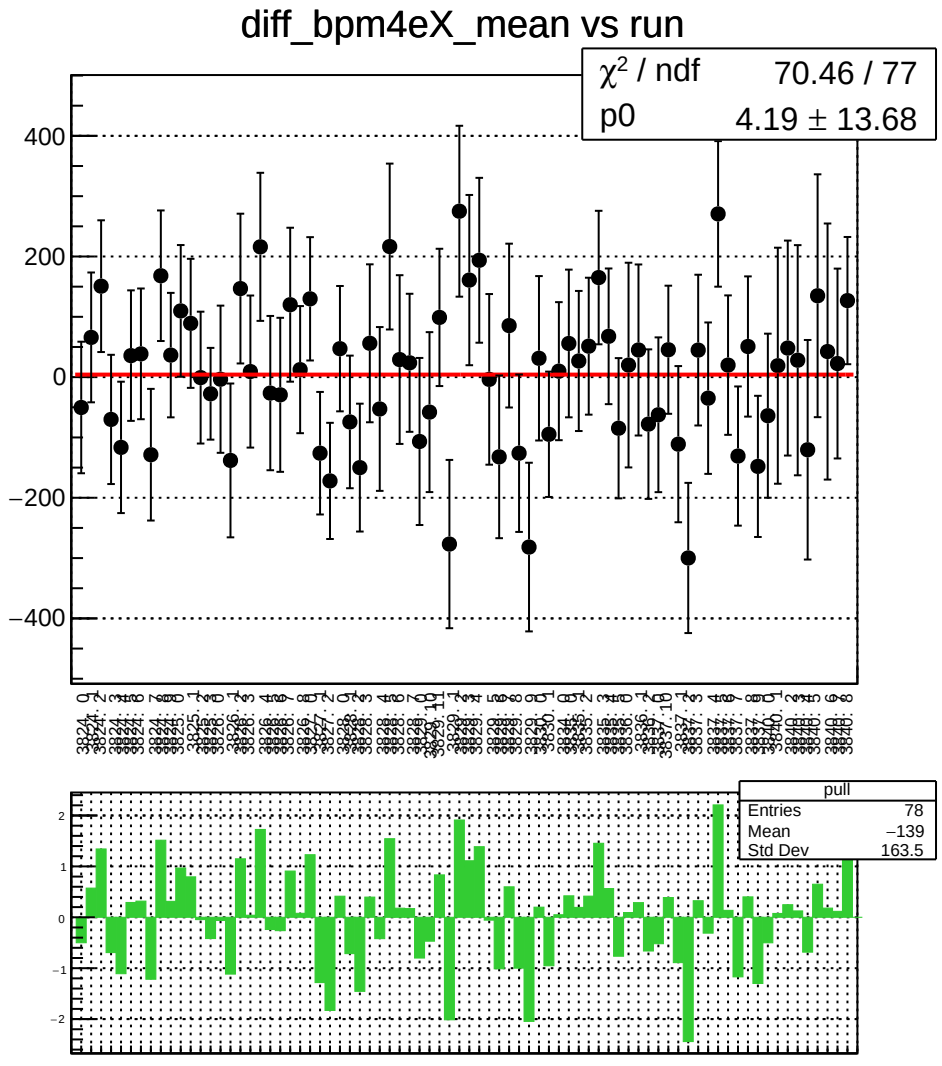

pull1D
Entries 78
Mean −0.002825
Std Dev 0.8809

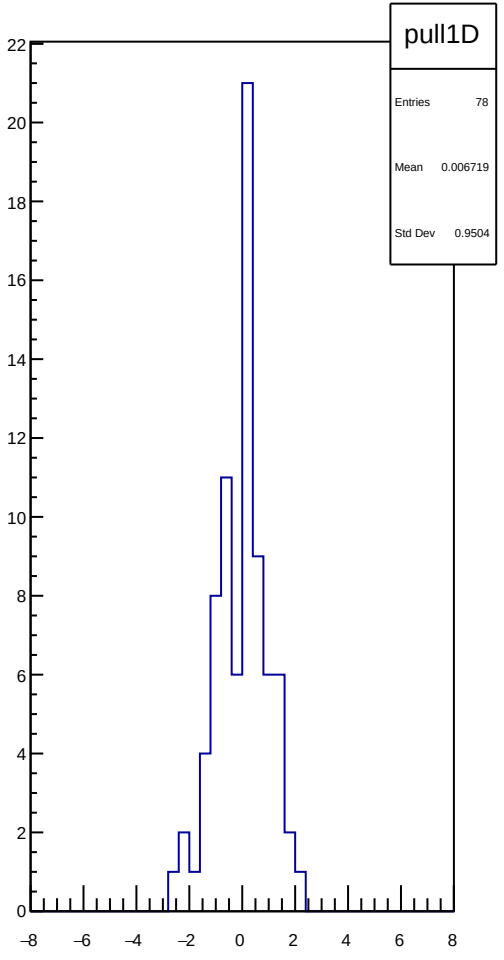

diff_bpm4aX_rms vs run
χ² / ndf 2.332e+04 / 77
p0 1966 ± 1.619
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

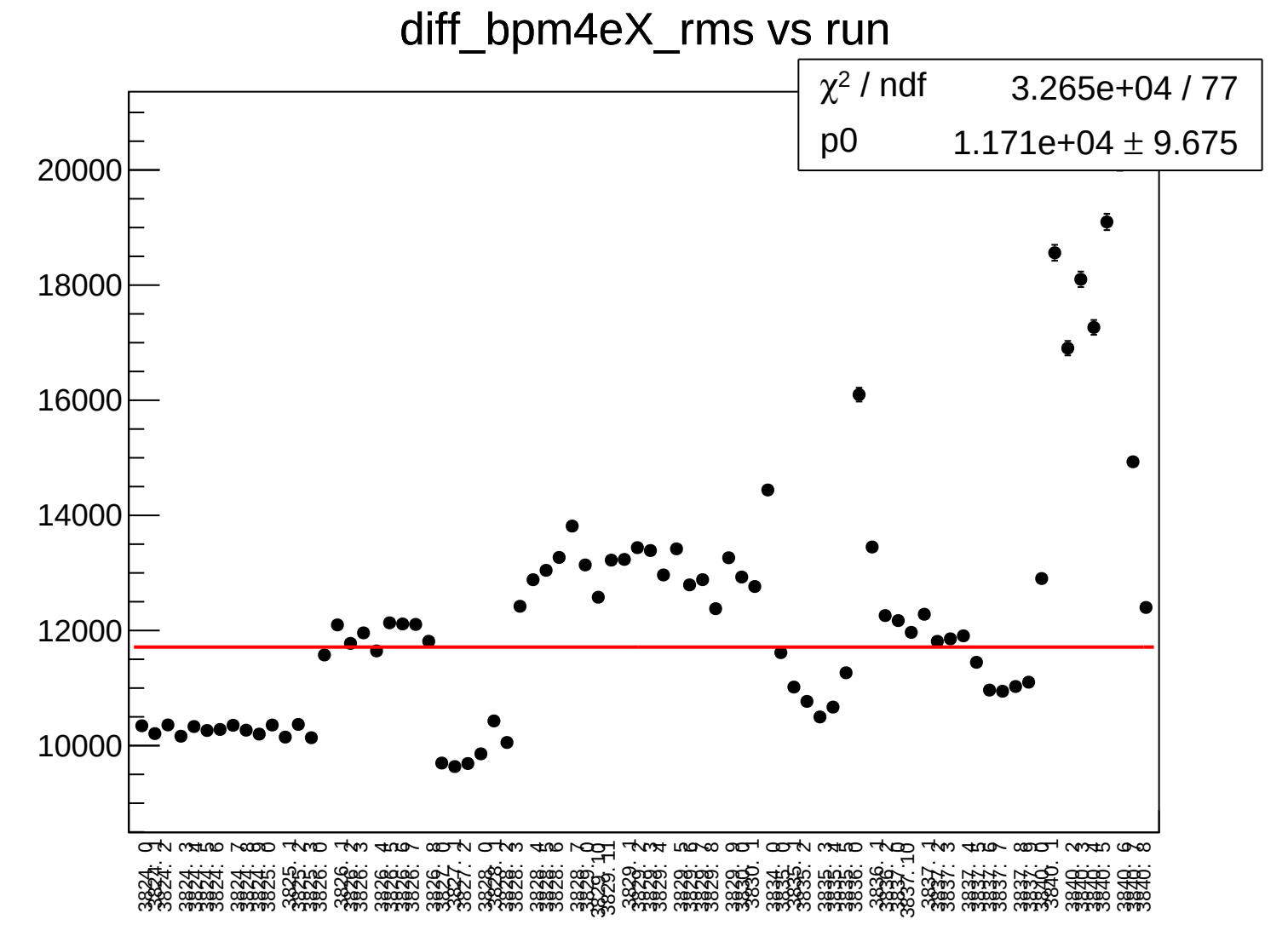

diff_bpm4aY_mean vs run
χ² / ndf 83.45 / 77
p0 −1.955 ± 5.897
pull
Entries 78
Mean 96.1
Std Dev 50.87

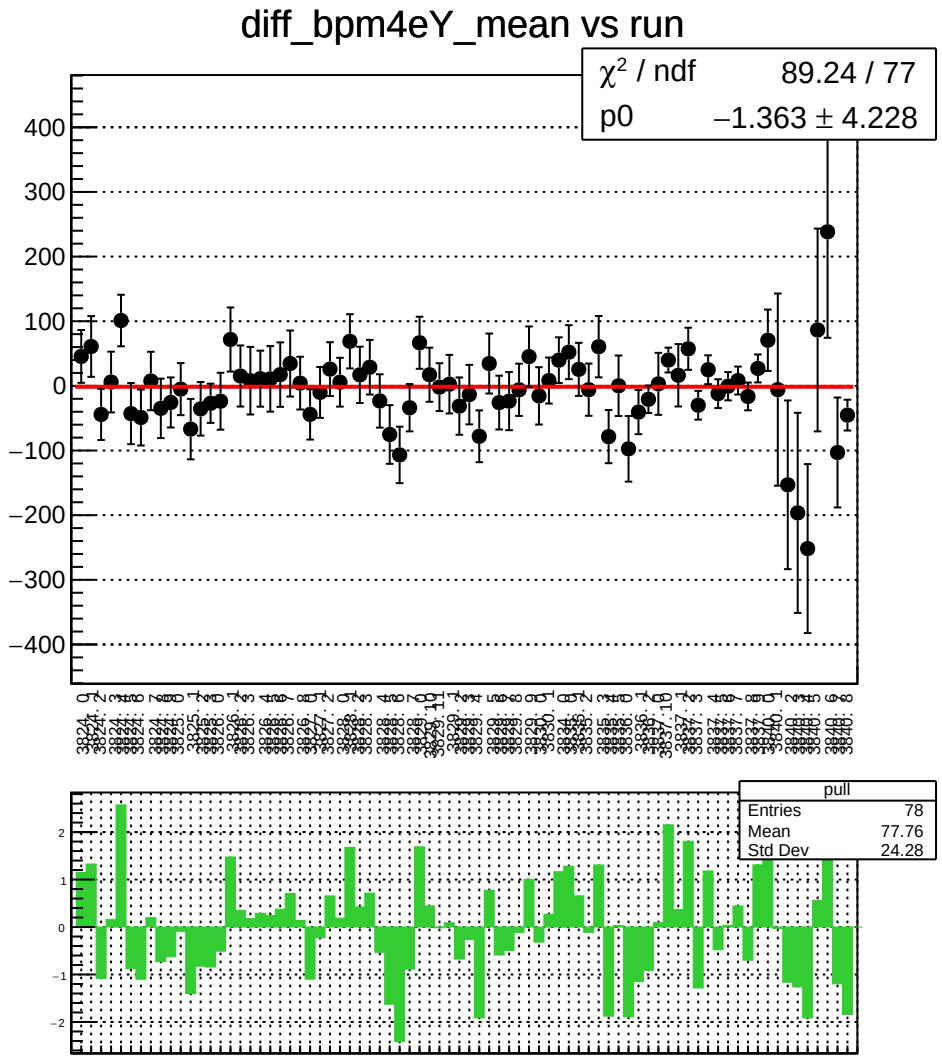

pull1D
Entries 78
Mean −0.03087
Std Dev 1.034

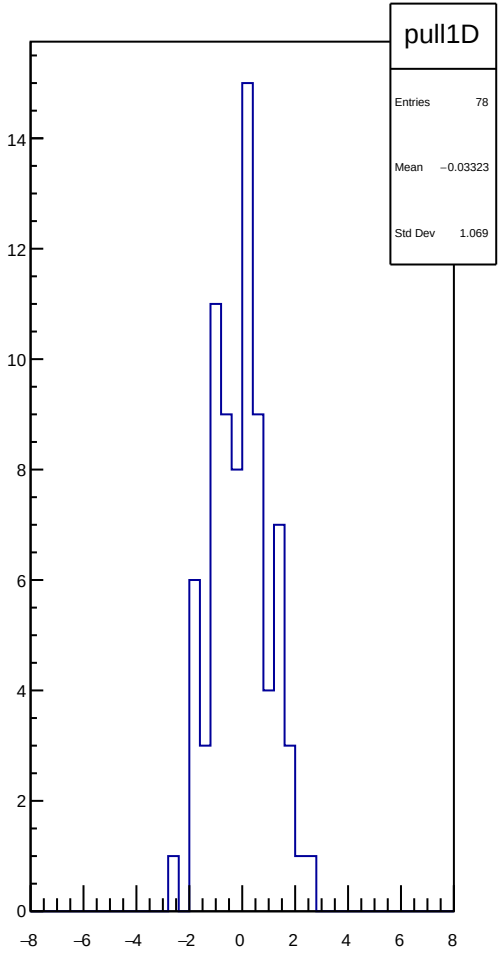

diff_bpm4aY_rms vs run
χ² / ndf 3.126e+05 / 77
p0 4540 ± 4.17
25000
20000
15000
10000
5000

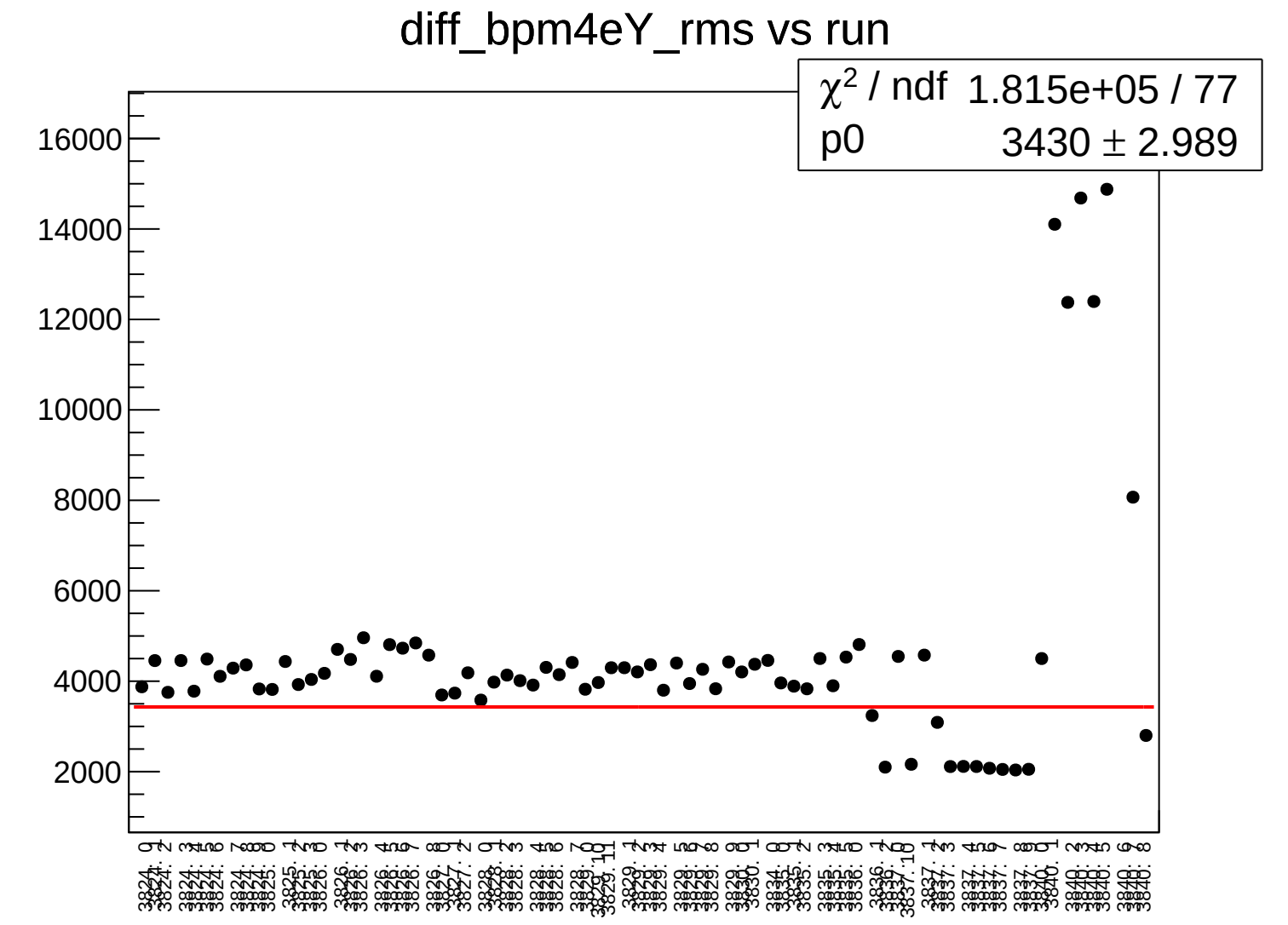

diff_bpm4eX_mean vs run
χ² / ndf 70.46 / 77
p0 4.19 ± 13.68
pull
Entries 78
Mean −139
Std Dev 163.5

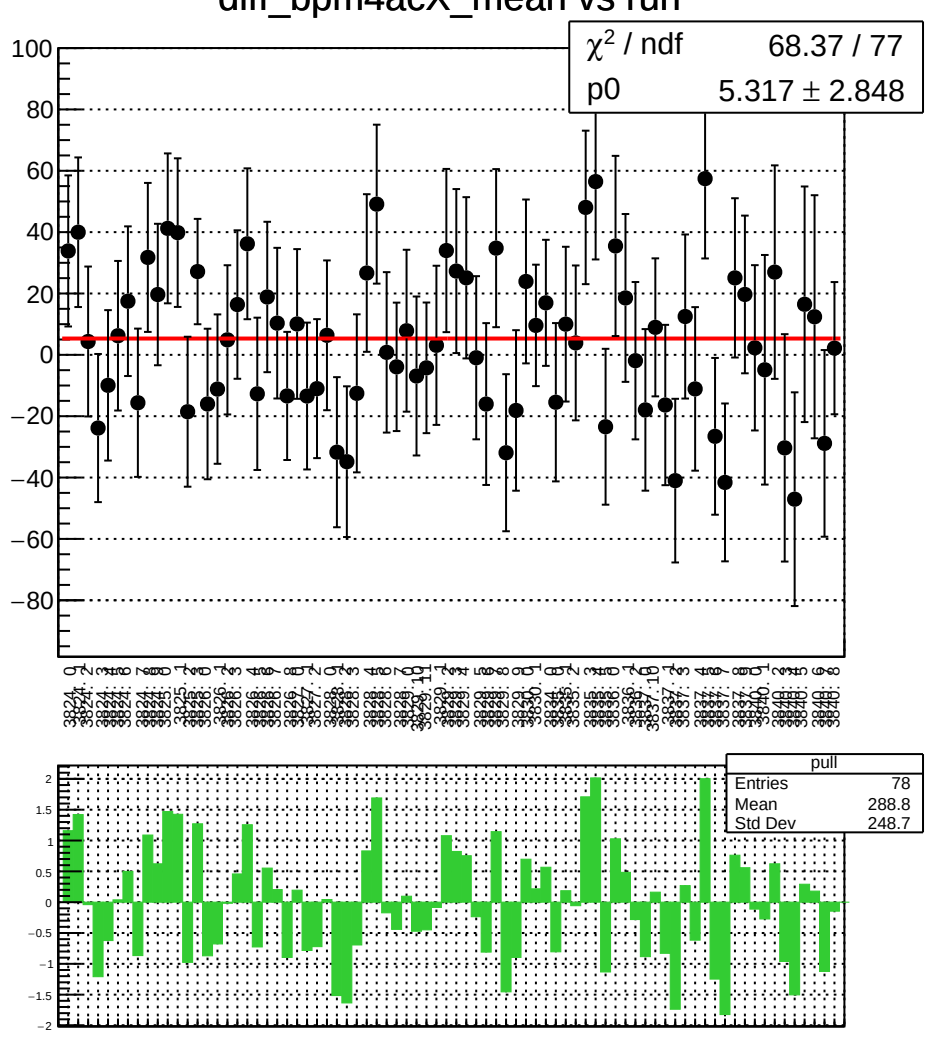

pull1D
Entries 78
Mean 0.006719
Std Dev 0.9504

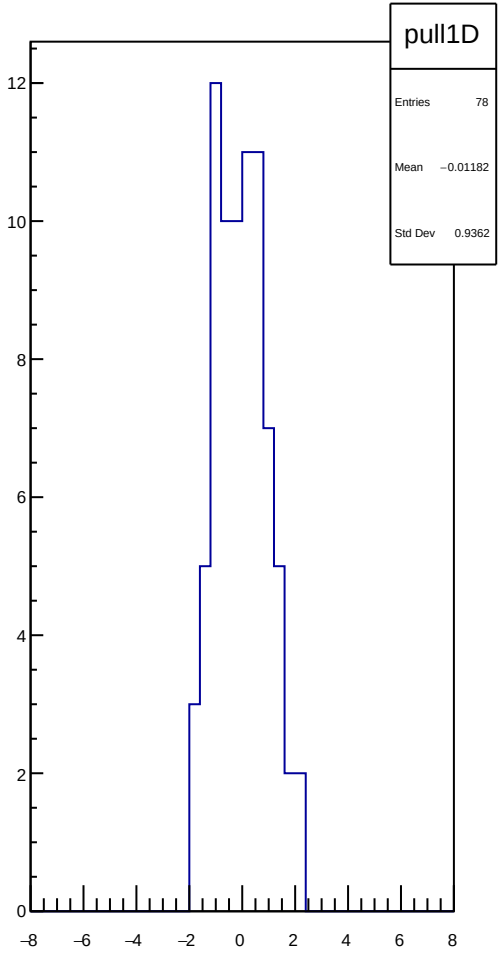

diff_bpm4eX_rms vs run
χ² / ndf 3.265e+04 / 77
p0 1.171e+04 ± 9.675
20000
18000
16000
14000
12000
10000

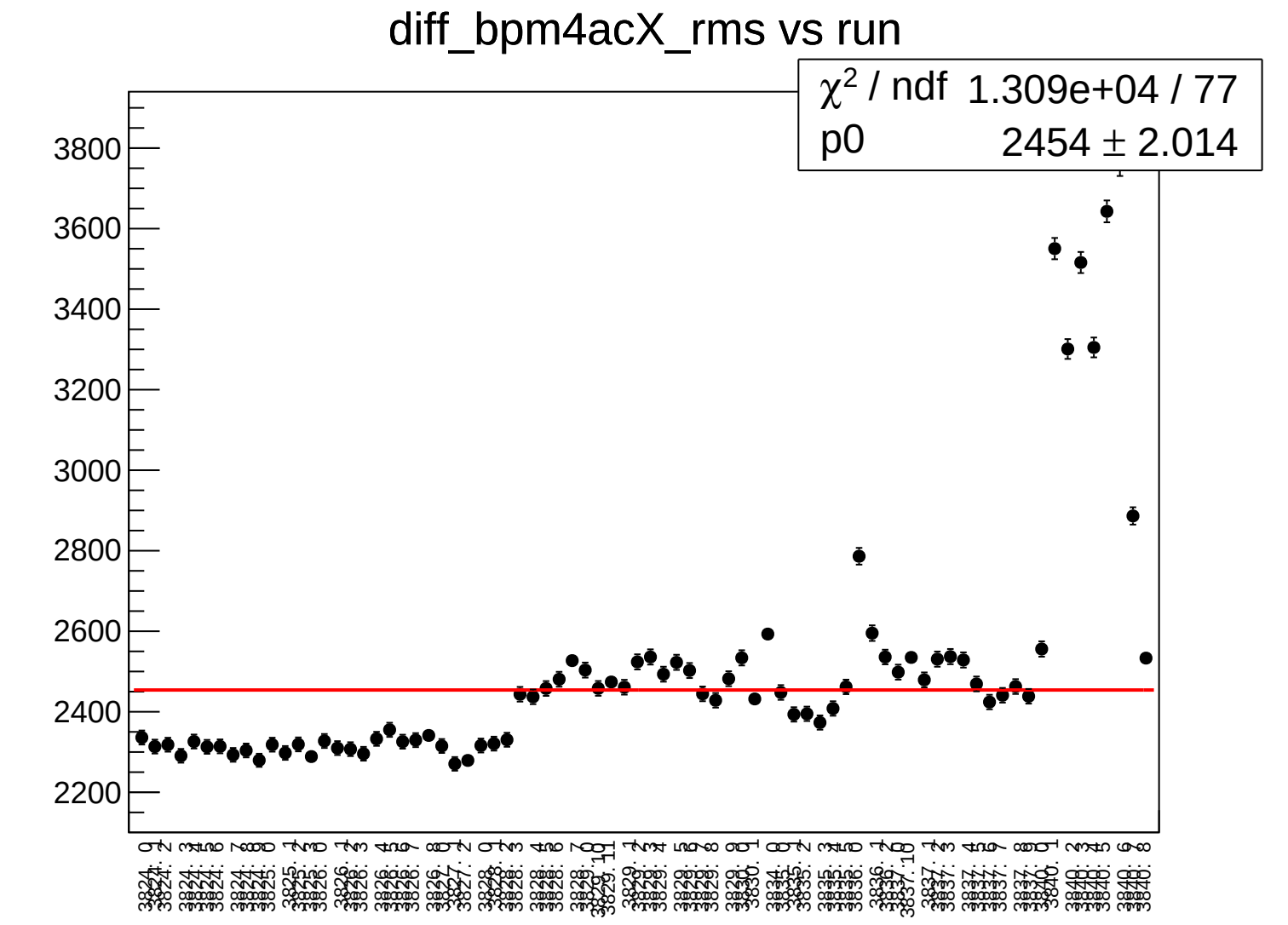

diff_bpm4eY_mean vs run
χ² / ndf 89.24 / 77
p0 −1.363 ± 4.228
pull
Entries 78
Mean 77.76
Std Dev 24.28

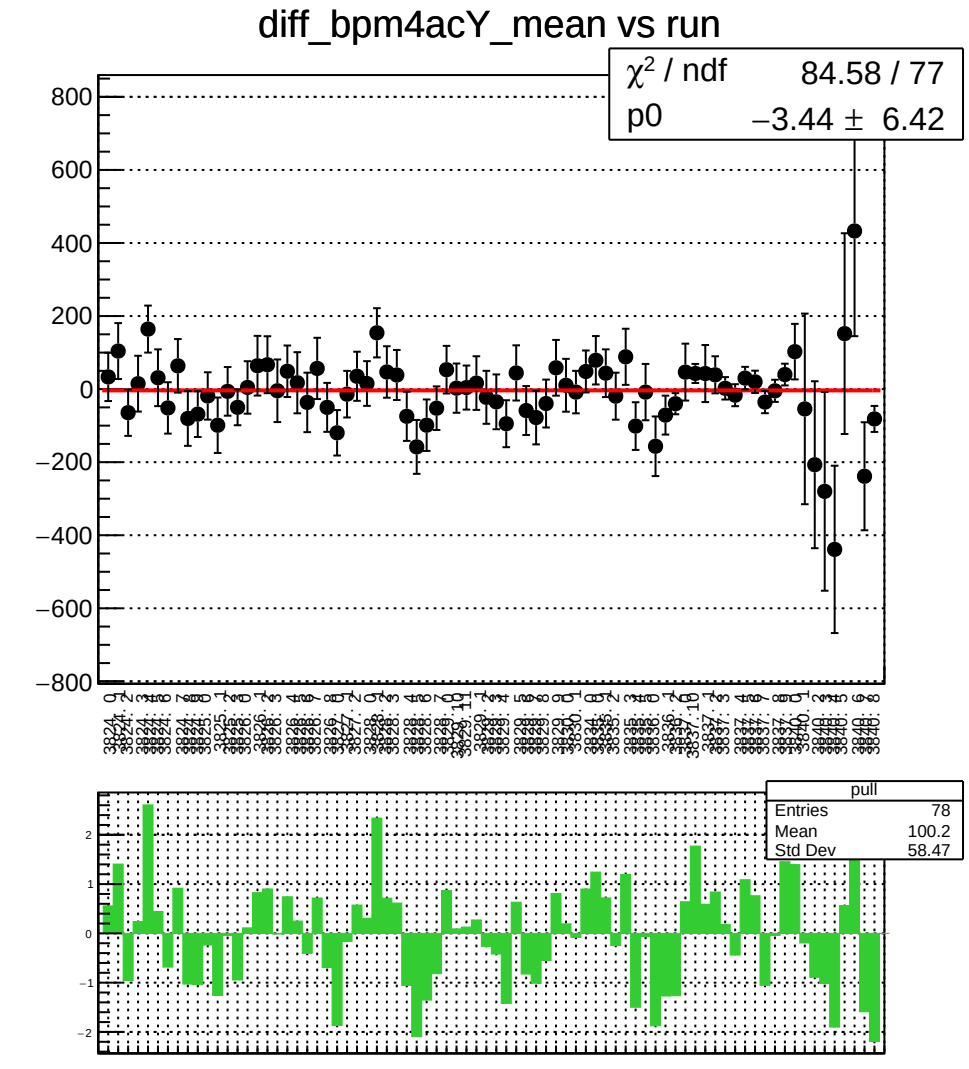

pull1D
Entries 78
Mean −0.03323
Std Dev 1.069

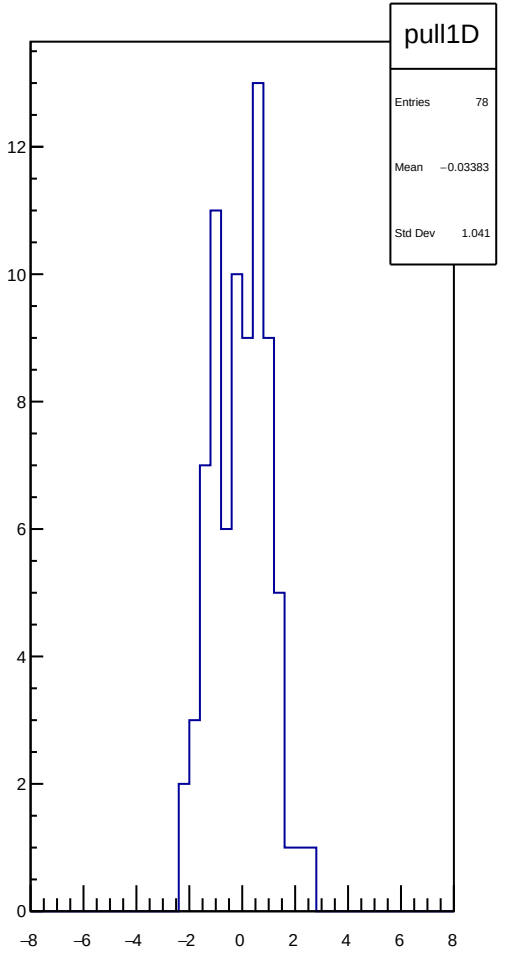

diff_bpm4eY_rms vs run
χ² / ndf 1.815e+05 / 77
p0 3430 ± 2.989
16000
14000
12000
10000
8000
6000
4000
2000

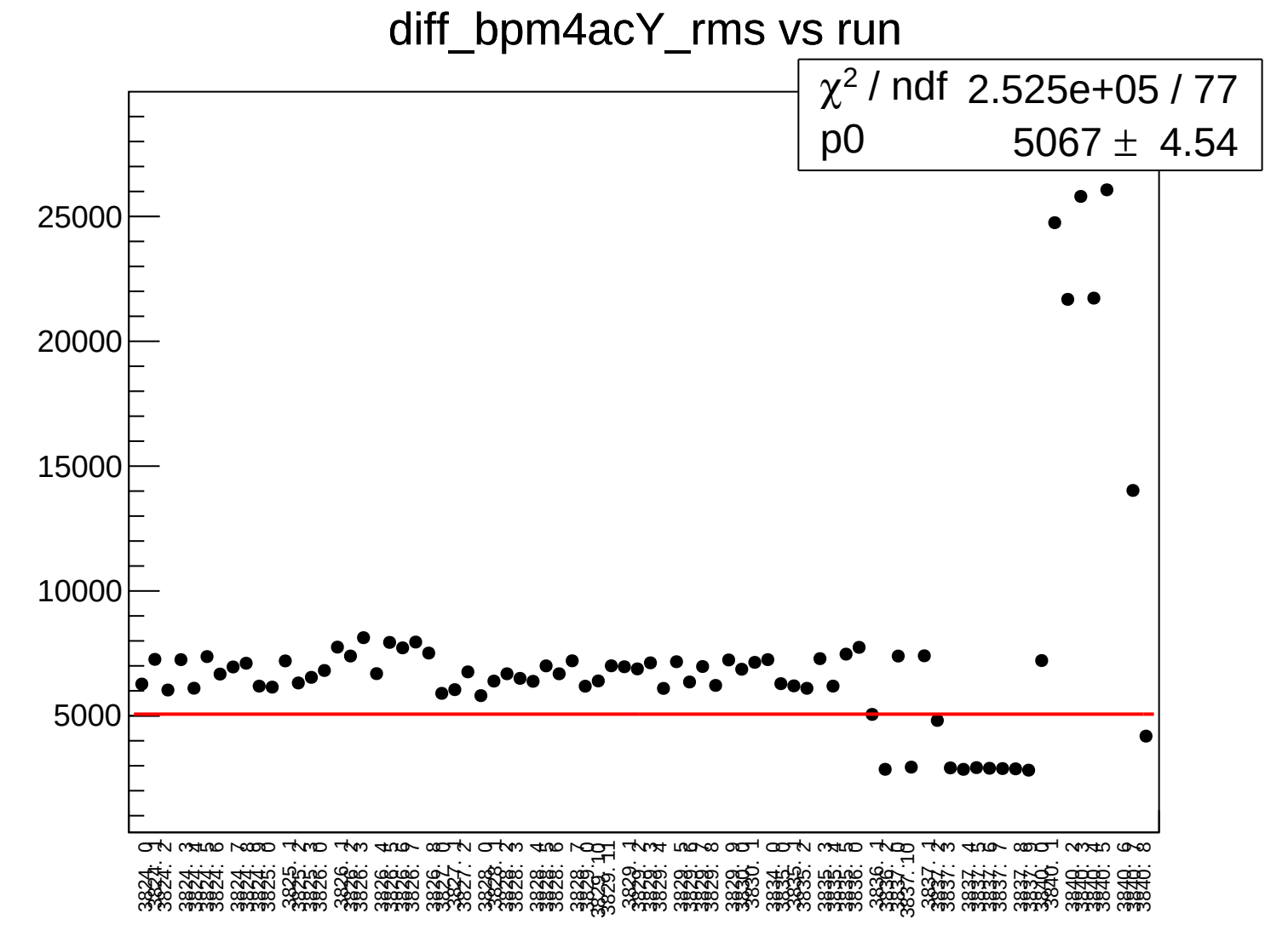

diff_bpm4acX_mean vs run
χ^2 / ndf 68.37 / 77
p0 5.317 ± 2.848
pull
Entries 78
Mean 288.8
Std Dev 248.7

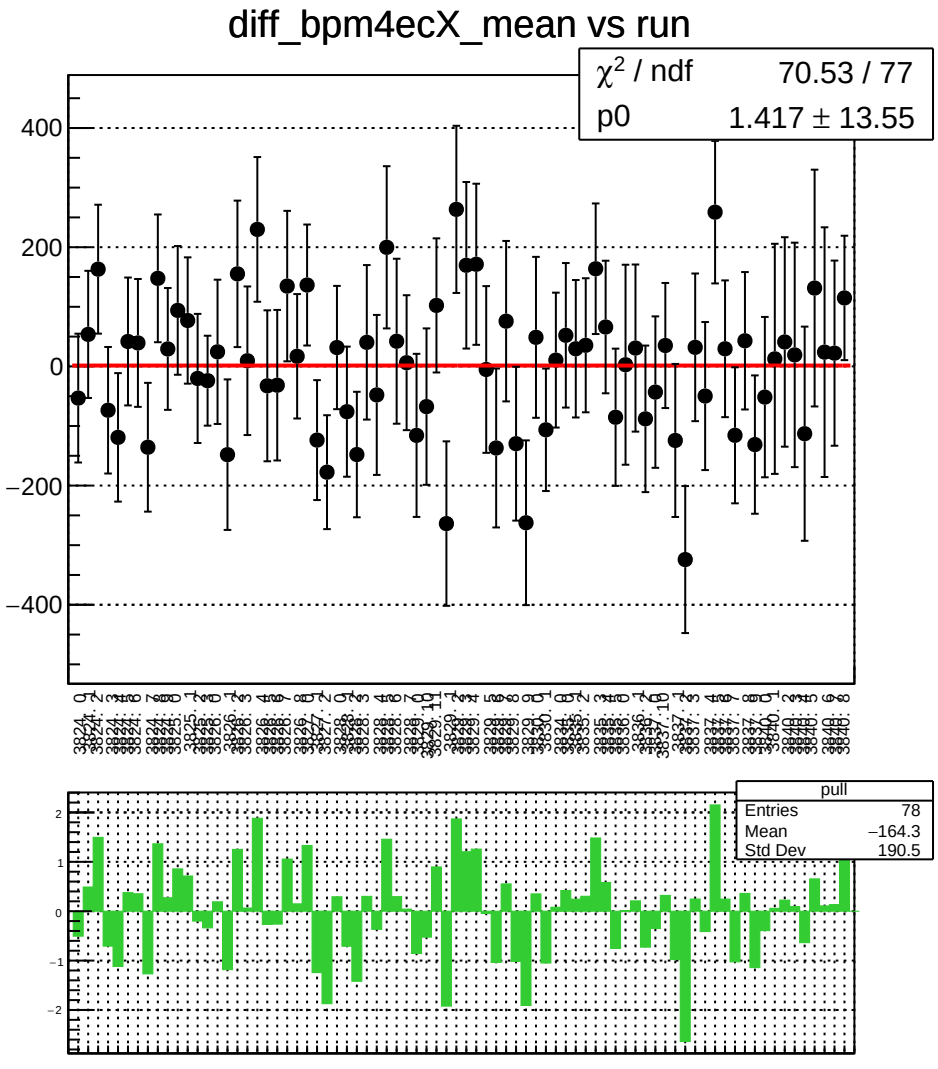

pull1D
Entries 78
Mean −0.01182
Std Dev 0.9362

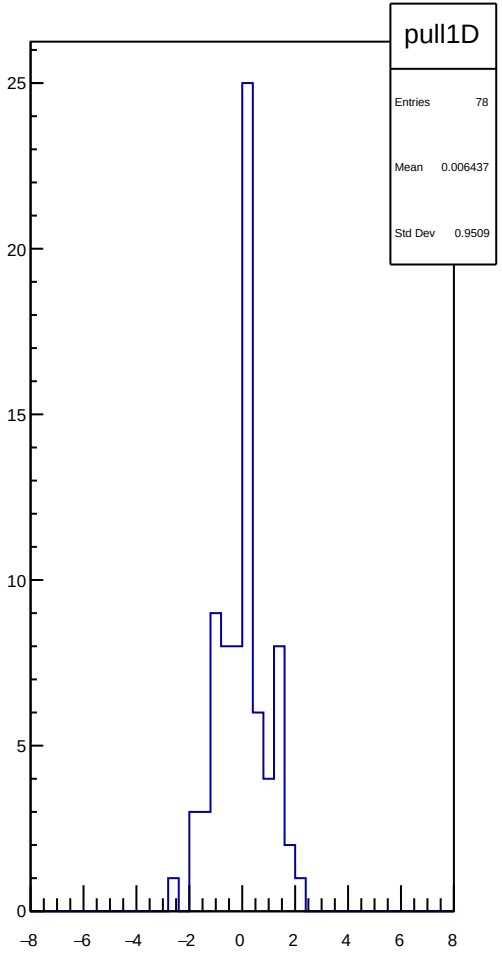

diff_bpm4acX_rms vs run
χ² / ndf 1.309e+04 / 77
p0 2454 ± 2.014
3800
3600
3400
3200
3000
2800
2600
2400
2200

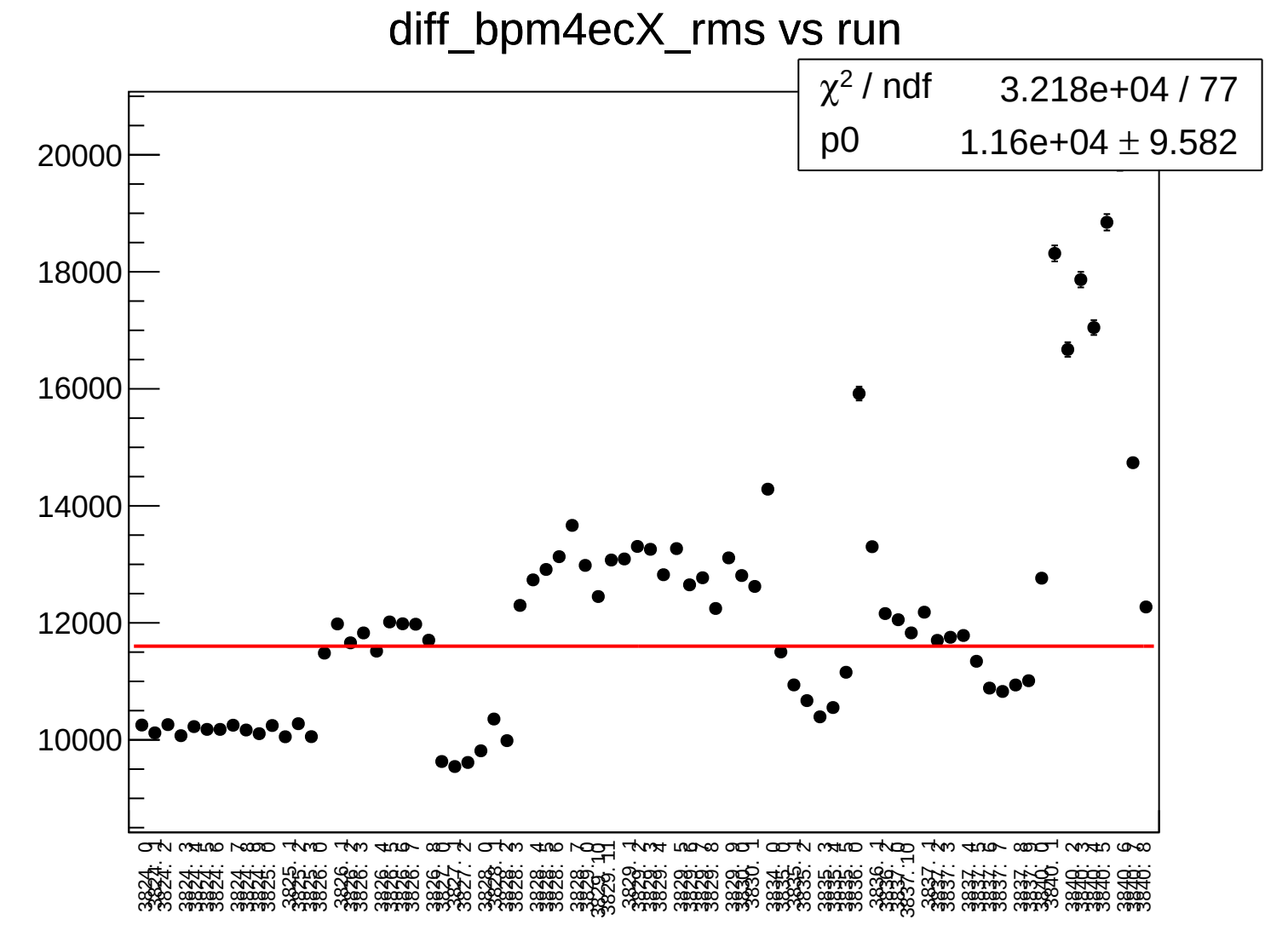

diff_bpm4acY_mean vs run
χ² / ndf 84.58 / 77
p0 −3.44 ± 6.42
pull
Entries 78
Mean 100.2
Std Dev 58.47

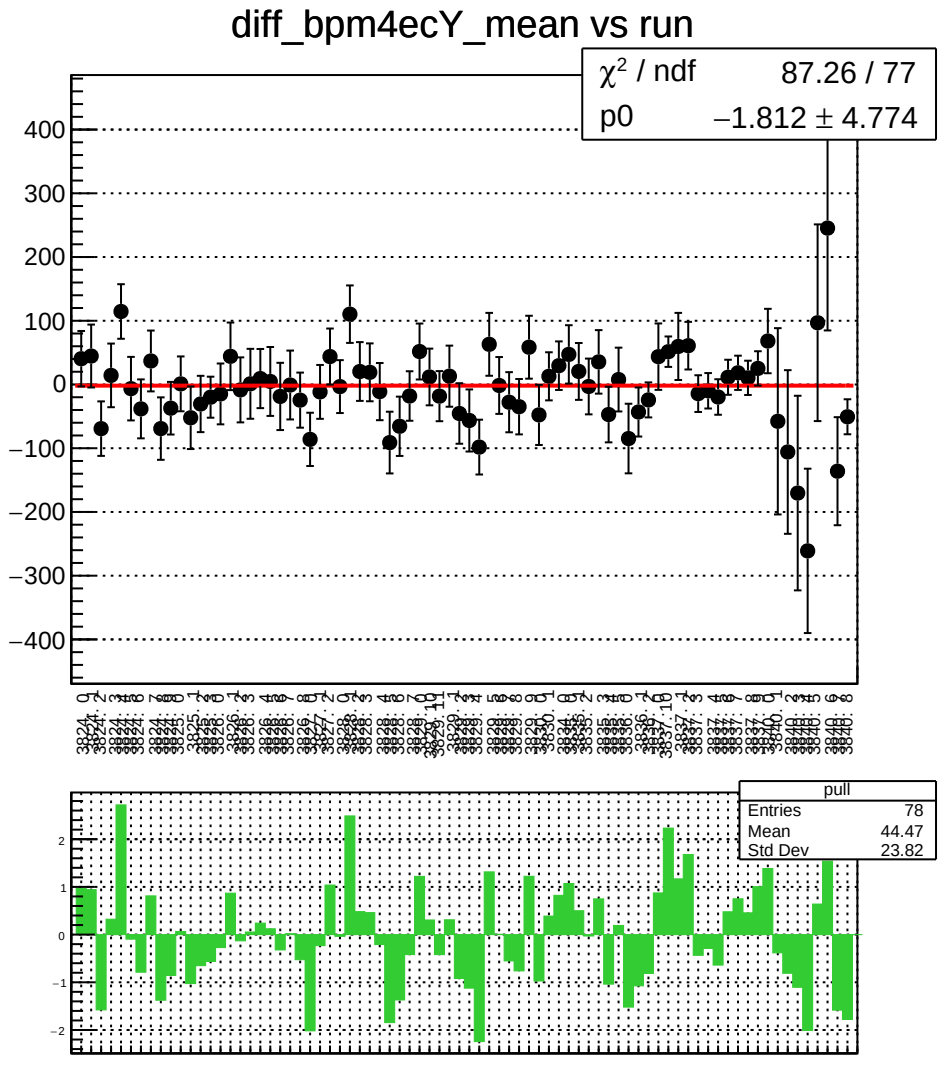

pull1D
Entries 78
Mean −0.03383
Std Dev 1.041

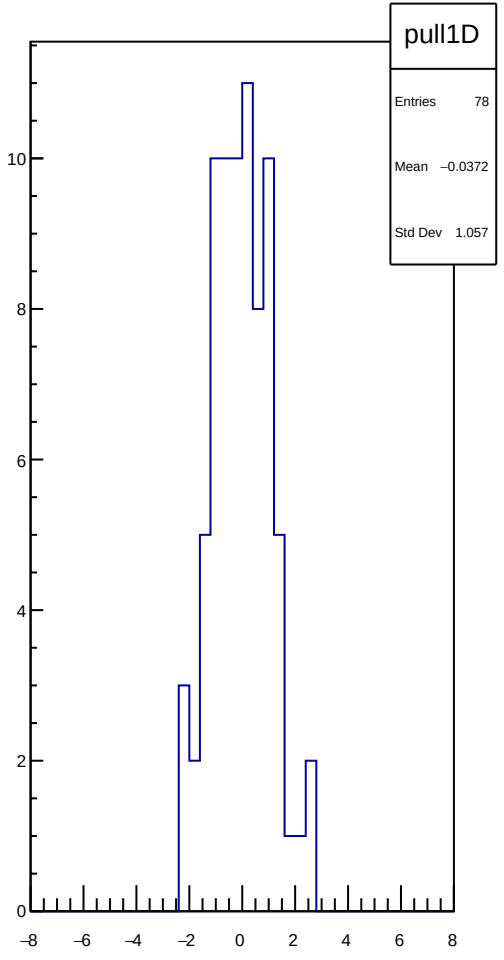

diff_bpm4acY_rms vs run
χ² / ndf 2.525e+05 / 77
p0 5067 ± 4.54
25000
20000
15000
10000
5000

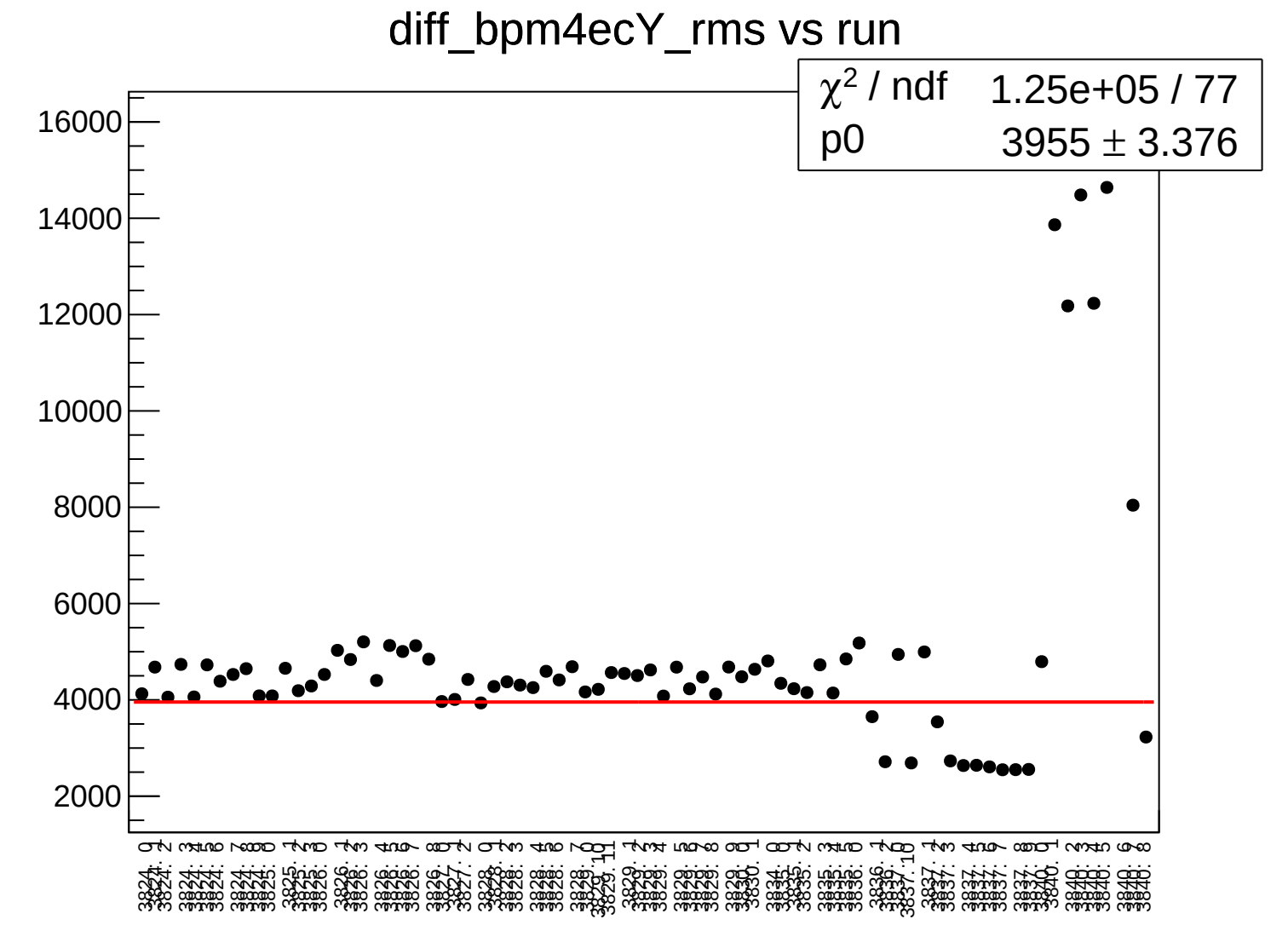

diff_bpm4ecX_mean vs run
χ^2 / ndf 70.53 / 77
p0 1.417 ± 13.55
pull
Entries 78
Mean −164.3
Std Dev 190.5

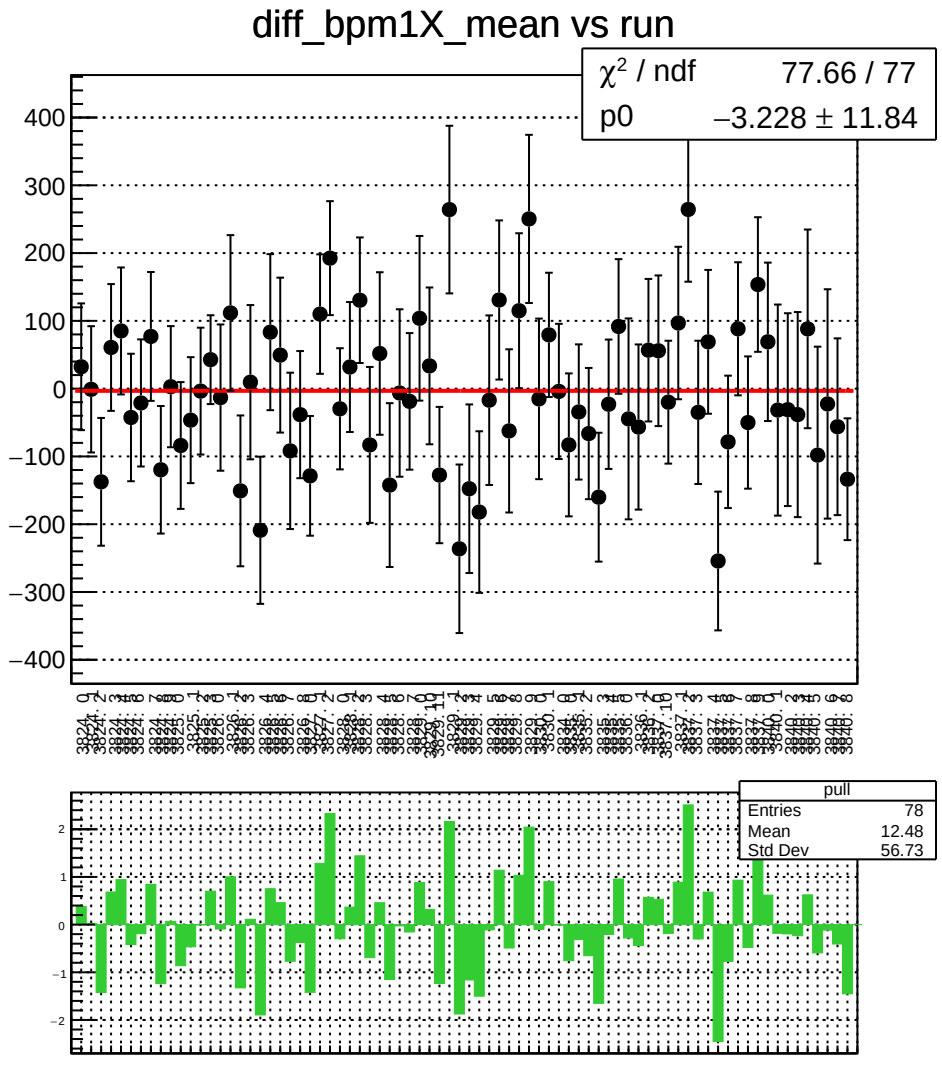

pull1D
Entries 78
Mean 0.006437
Std Dev 0.9509

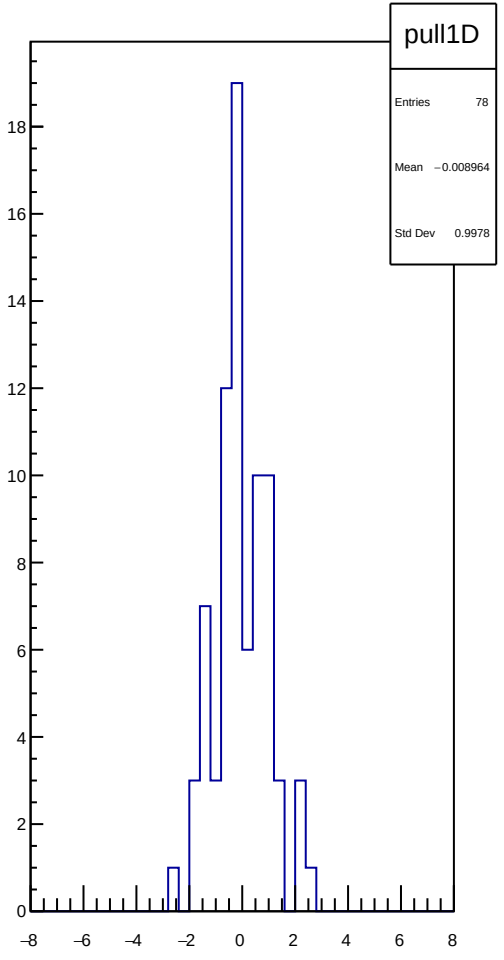

diff_bpm4ecX_rms vs run
χ^2 / ndf 3.218e+04 / 77
p0 1.16e+04 ± 9.582
20000
18000
16000
14000
12000
10000

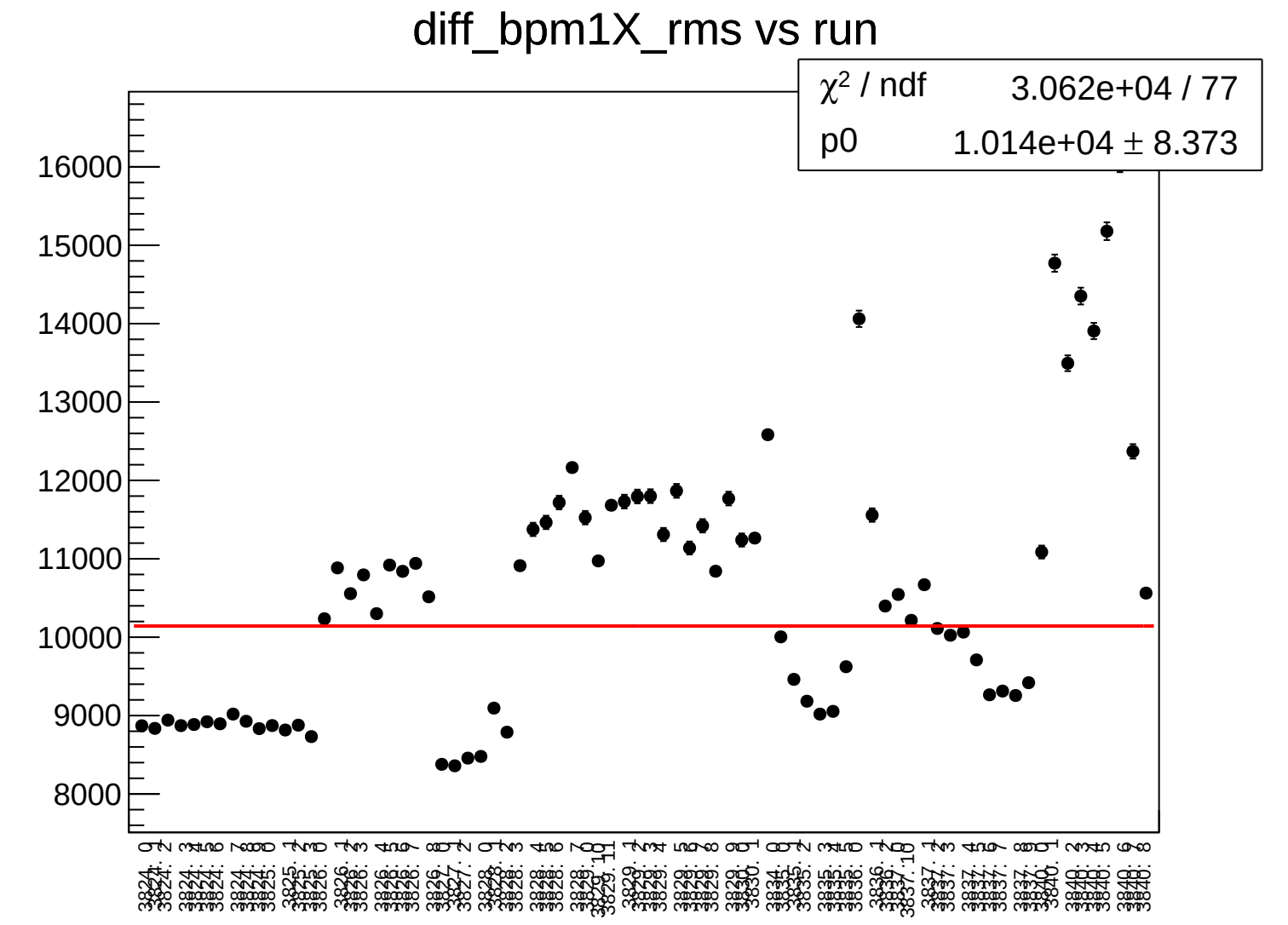

diff_bpm4ecY_mean vs run
χ² / ndf 87.26 / 77
p0 −1.812 ± 4.774
pull
Entries 78
Mean 44.47
Std Dev 23.82

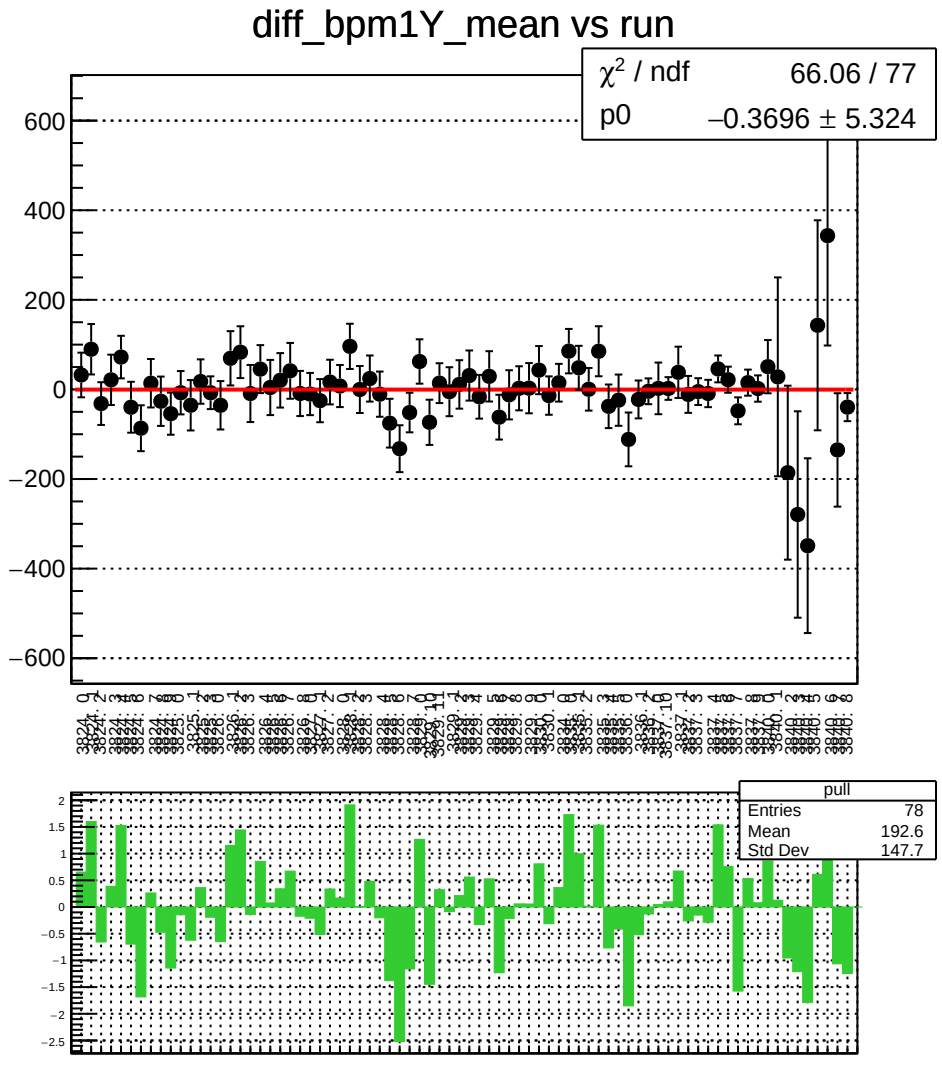

pull1D
Entries 78
Mean −0.0372
Std Dev 1.057

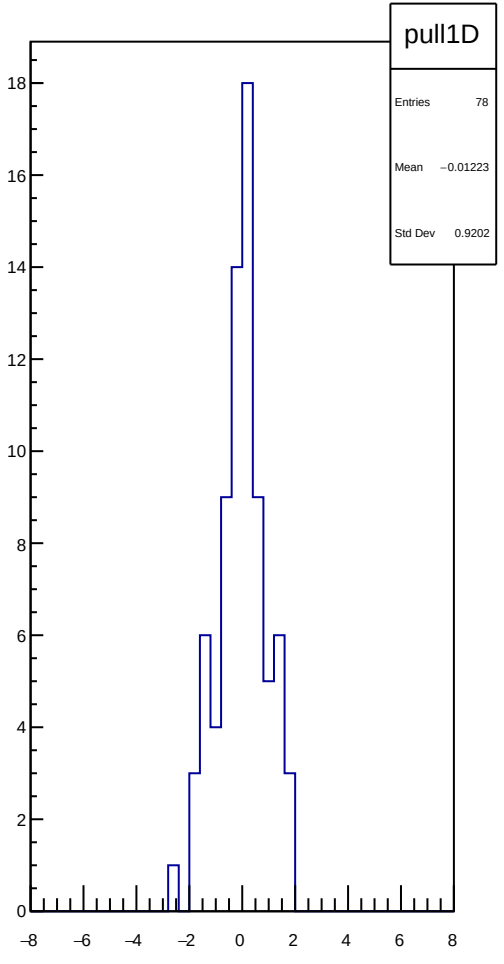

diff_bpm4ecY_rms vs run
χ² / ndf 1.25e+05 / 77
p0 3955 ± 3.376
16000
14000
12000
10000
8000
6000
4000
2000

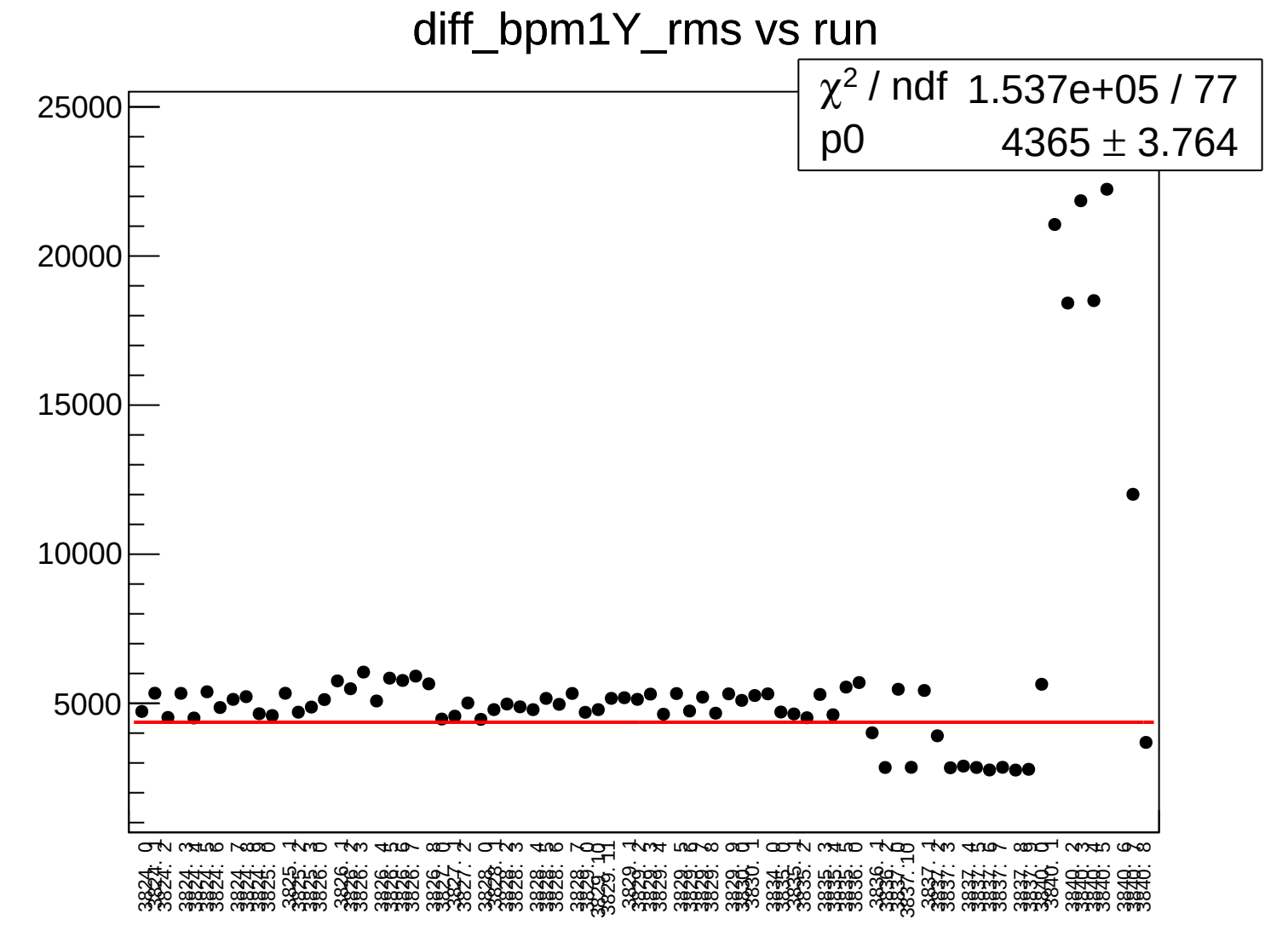

diff_bpm1X_mean vs run
χ² / ndf 77.66 / 77
p0 −3.228 ± 11.84
pull
Entries 78
Mean 12.48
Std Dev 56.73

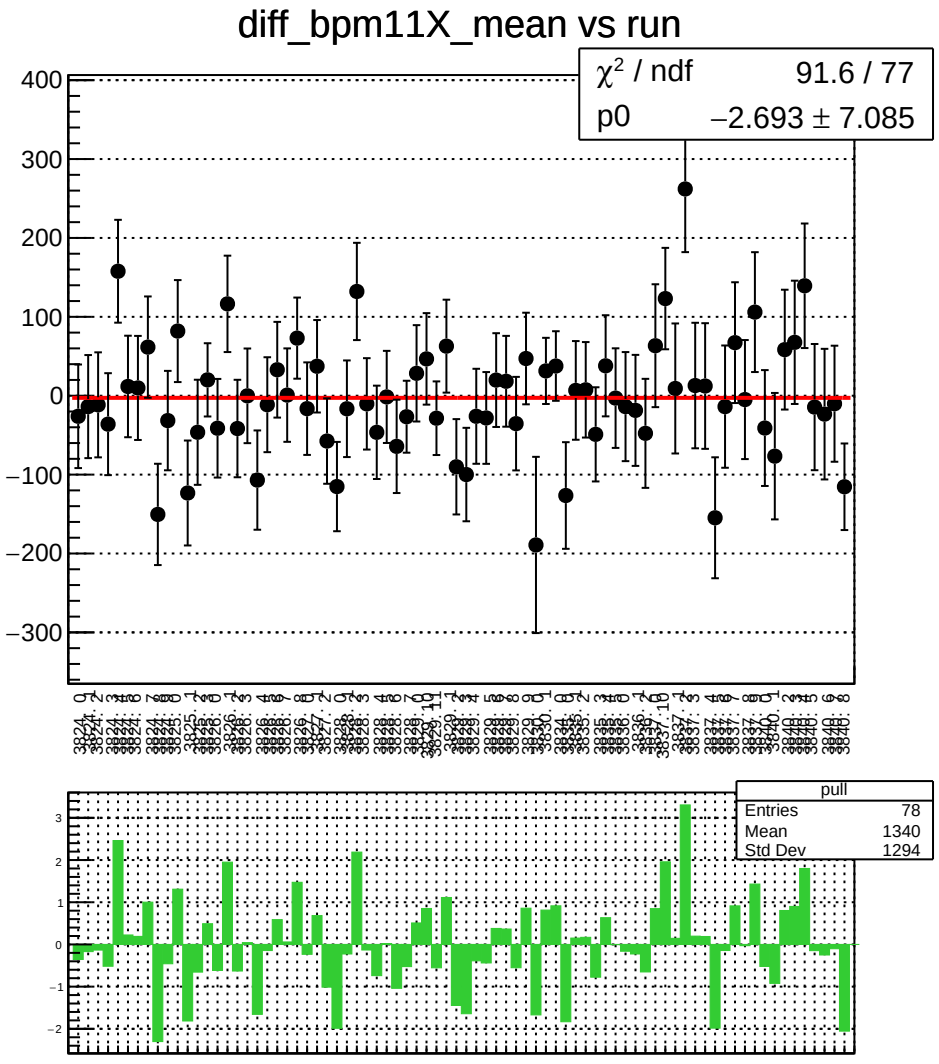

pull1D
Entries 78
Mean −0.008964
Std Dev 0.9978

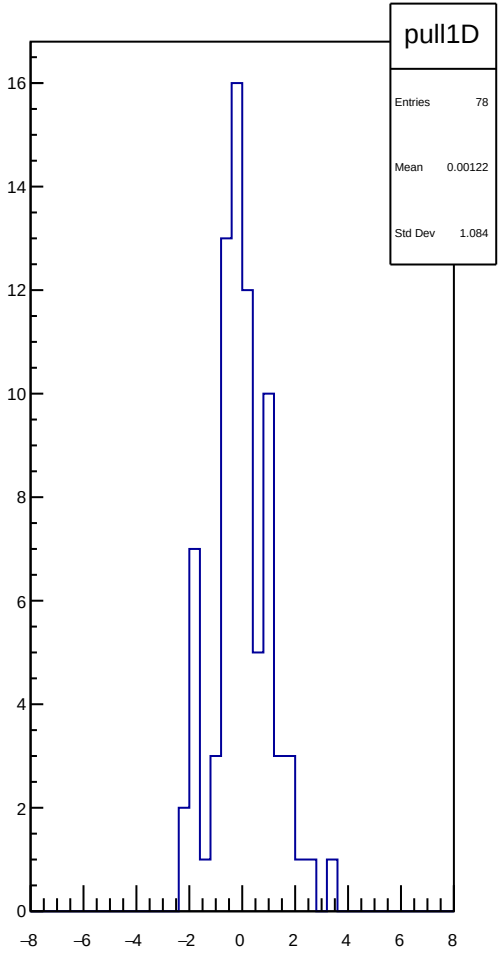

diff_bpm1X_rms vs run
χ² / ndf 3.062e+04 / 77
p0 1.014e+04 ± 8.373
16000
15000
14000
13000
12000
11000
10000
9000
8000

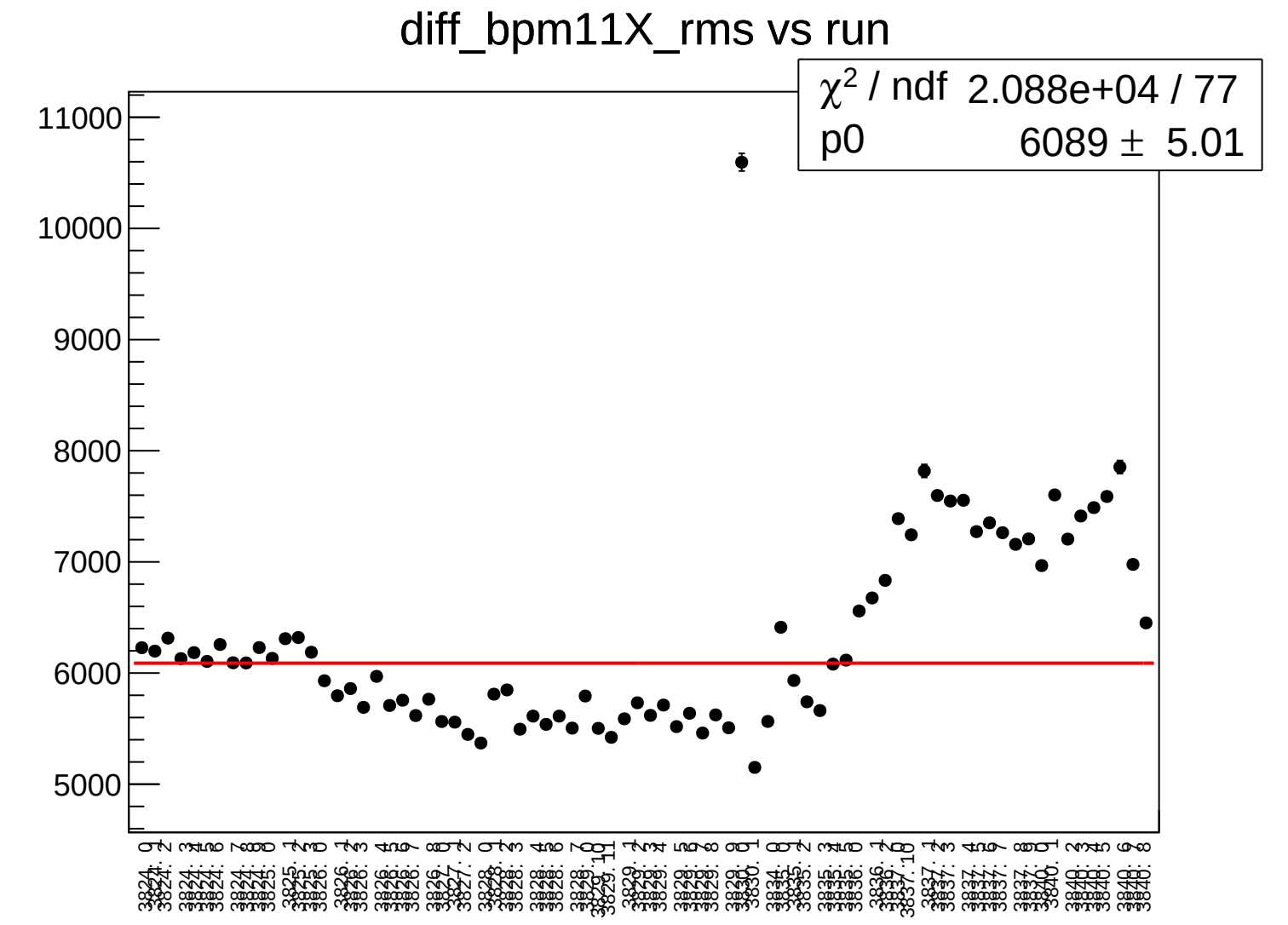

diff_bpm1Y_mean vs run
χ² / ndf 66.06 / 77
p0 −0.3696 ± 5.324
pull
Entries 78
Mean 192.6
Std Dev 147.7

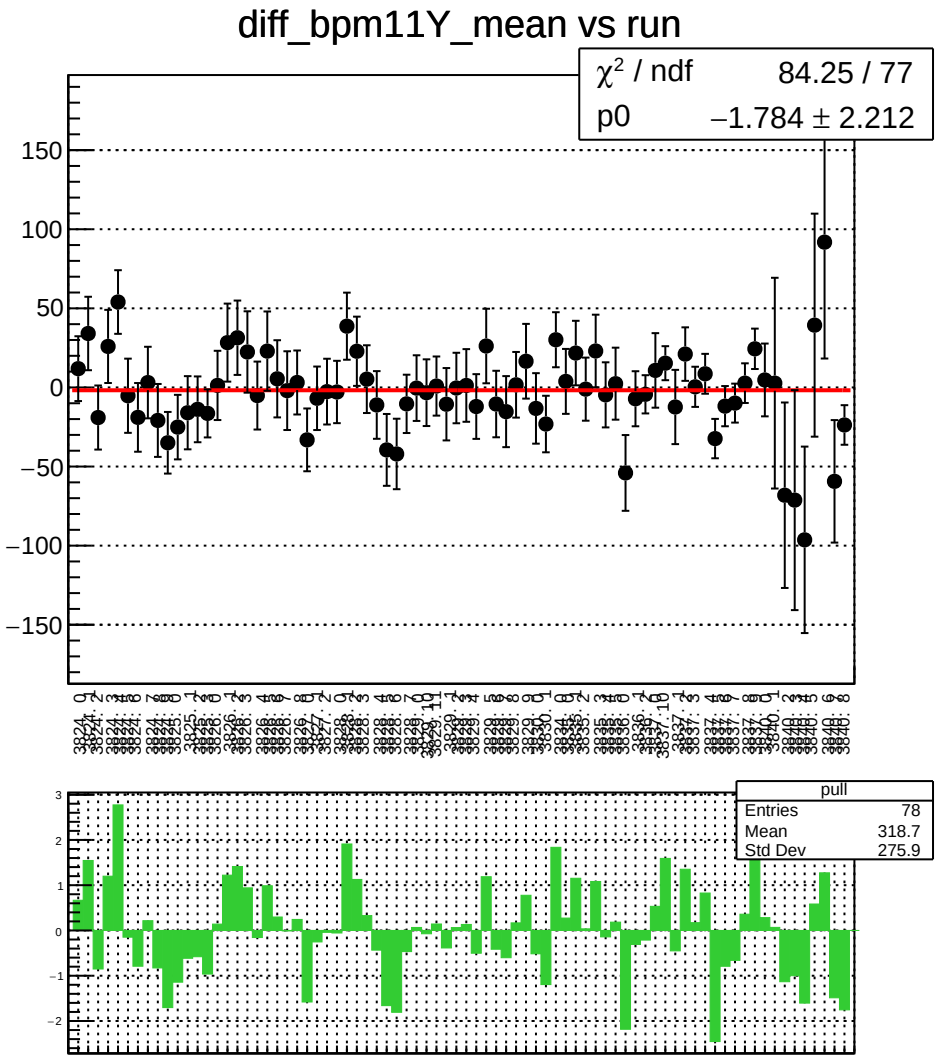

pull1D
Entries 78
Mean −0.01223
Std Dev 0.9202

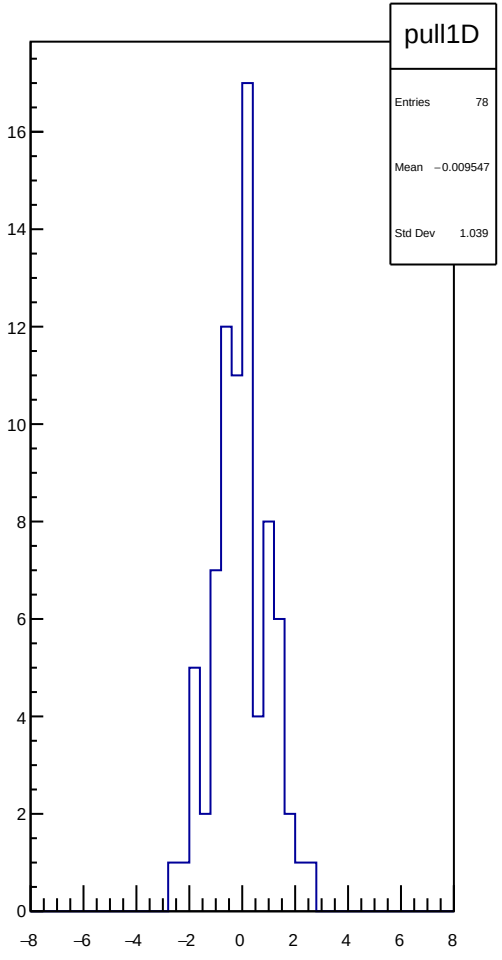

diff_bpm1Y_rms vs run
χ² / ndf 1.537e+05 / 77
p0 4365 ± 3.764
25000
20000
15000
10000
5000

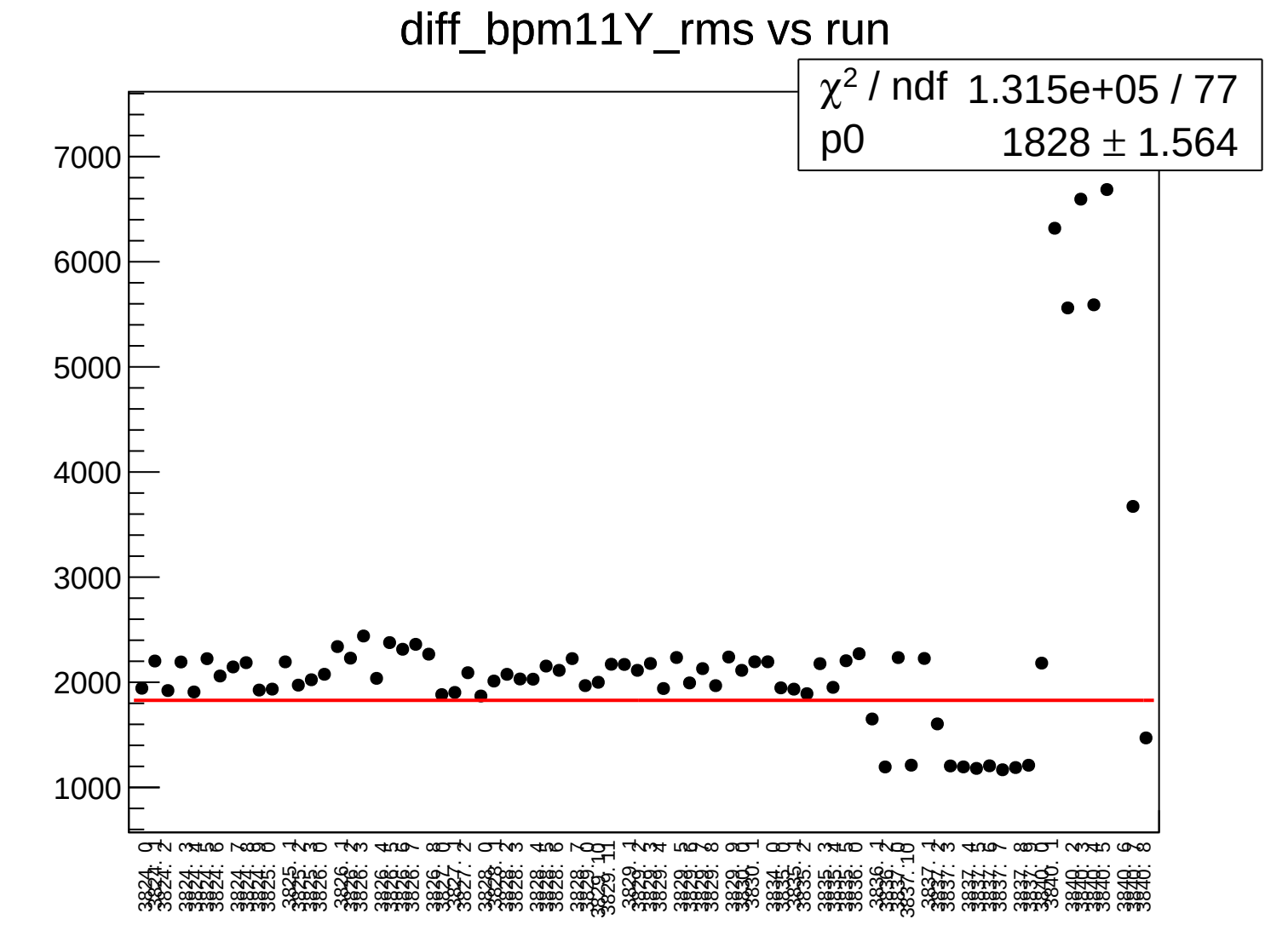

diff_bpm11X_mean vs run
χ² / ndf 91.6 / 77
p0 −2.693 ± 7.085
pull
Entries 78
Mean 1340
Std Dev 1294

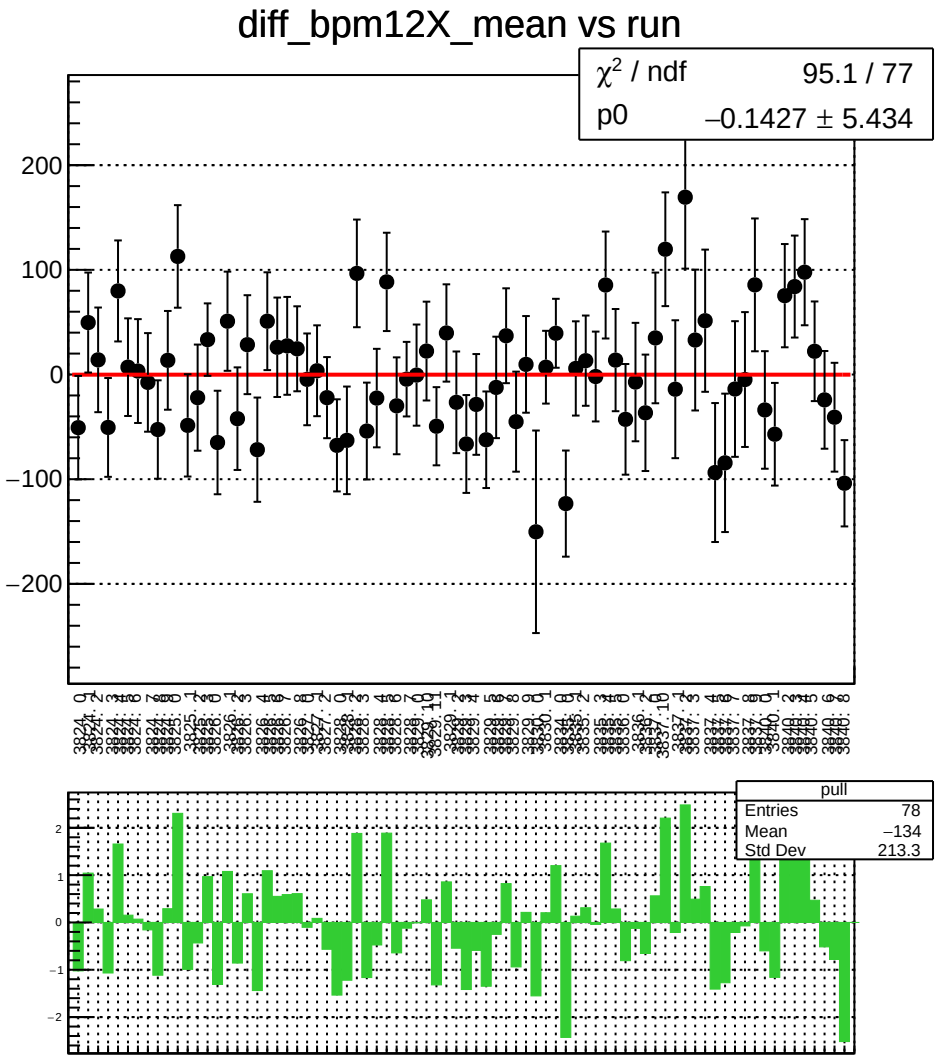

pull1D
Entries 78
Mean 0.00122
Std Dev 1.084

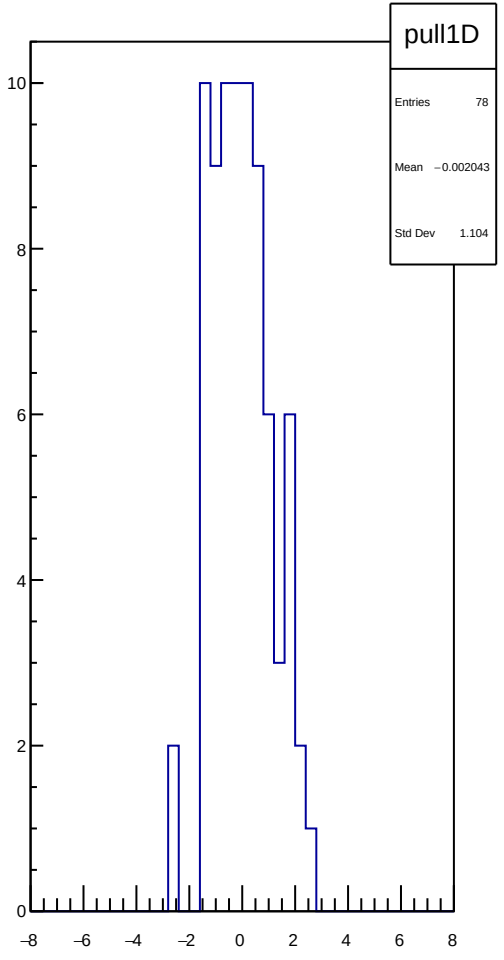

diff_bpm11X_rms vs run
χ² / ndf 2.088e+04 / 77
p0 6089 ± 5.01
11000
10000
9000
8000
7000
6000
5000

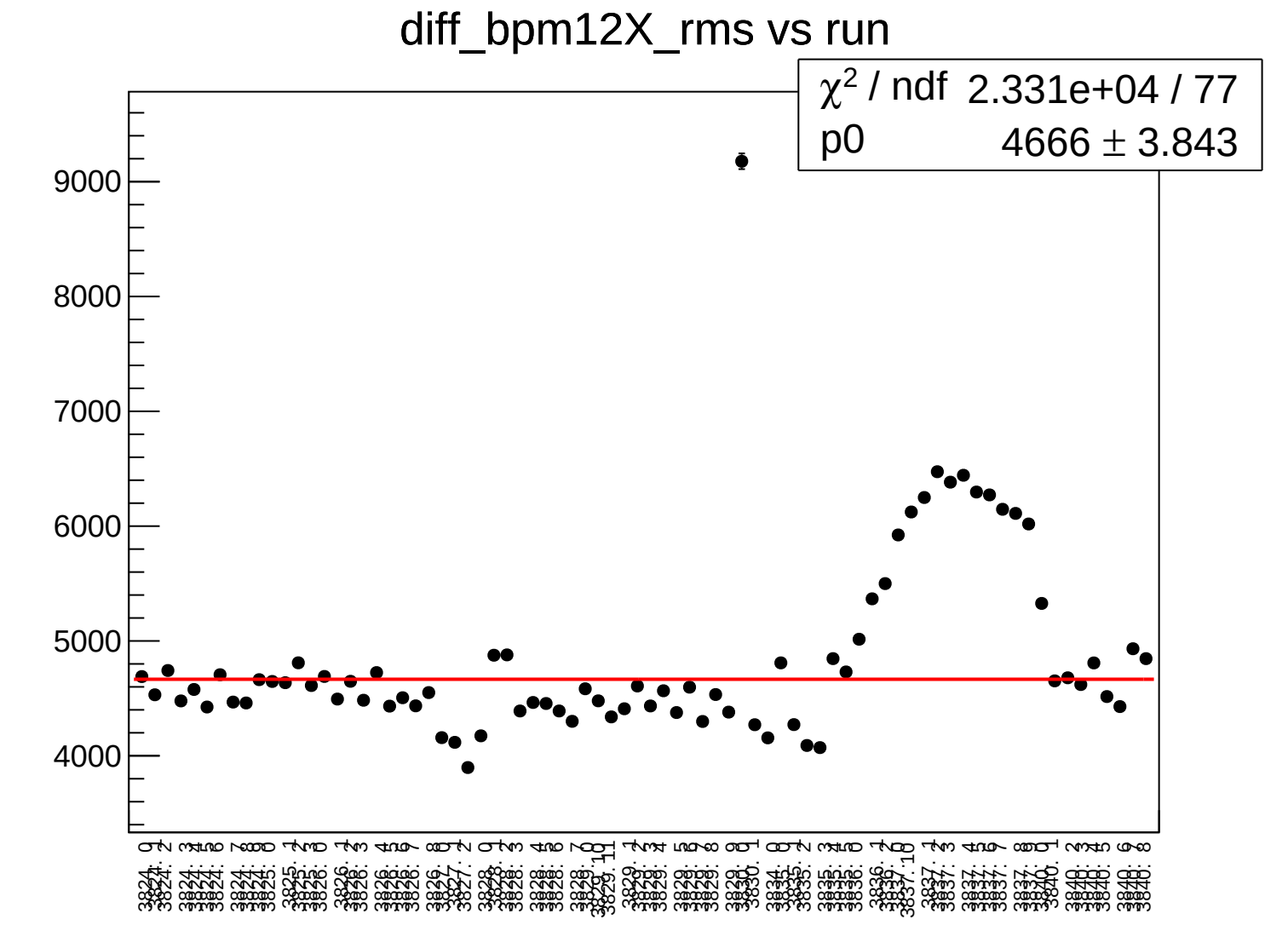

diff_bpm11Y_mean vs run
χ² / ndf 84.25 / 77
p0 −1.784 ± 2.212
pull
Entries 78
Mean 318.7
Std Dev 275.9

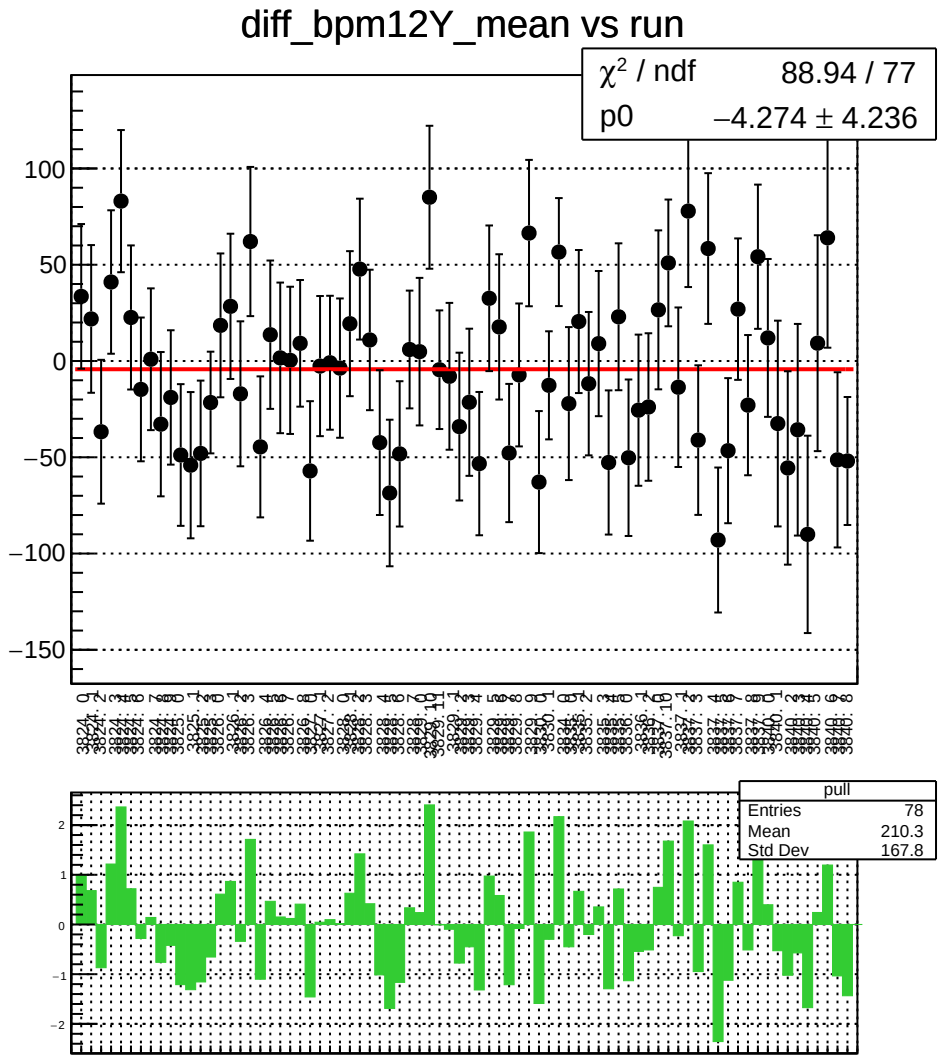

pull1D
Entries 78
Mean −0.009547
Std Dev 1.039

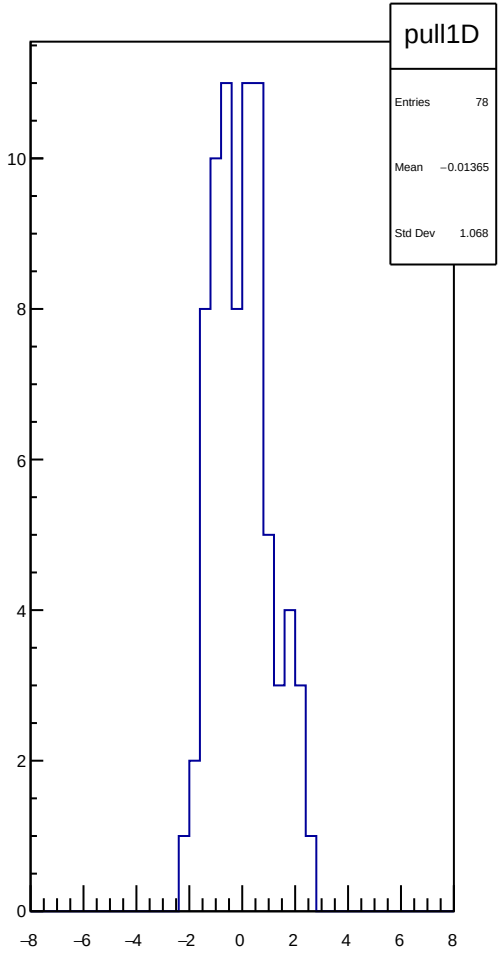

diff_bpm11Y_rms vs run
χ² / ndf 1.315e+05 / 77
p0 1828 ± 1.564
7000
6000
5000
4000
3000
2000
1000

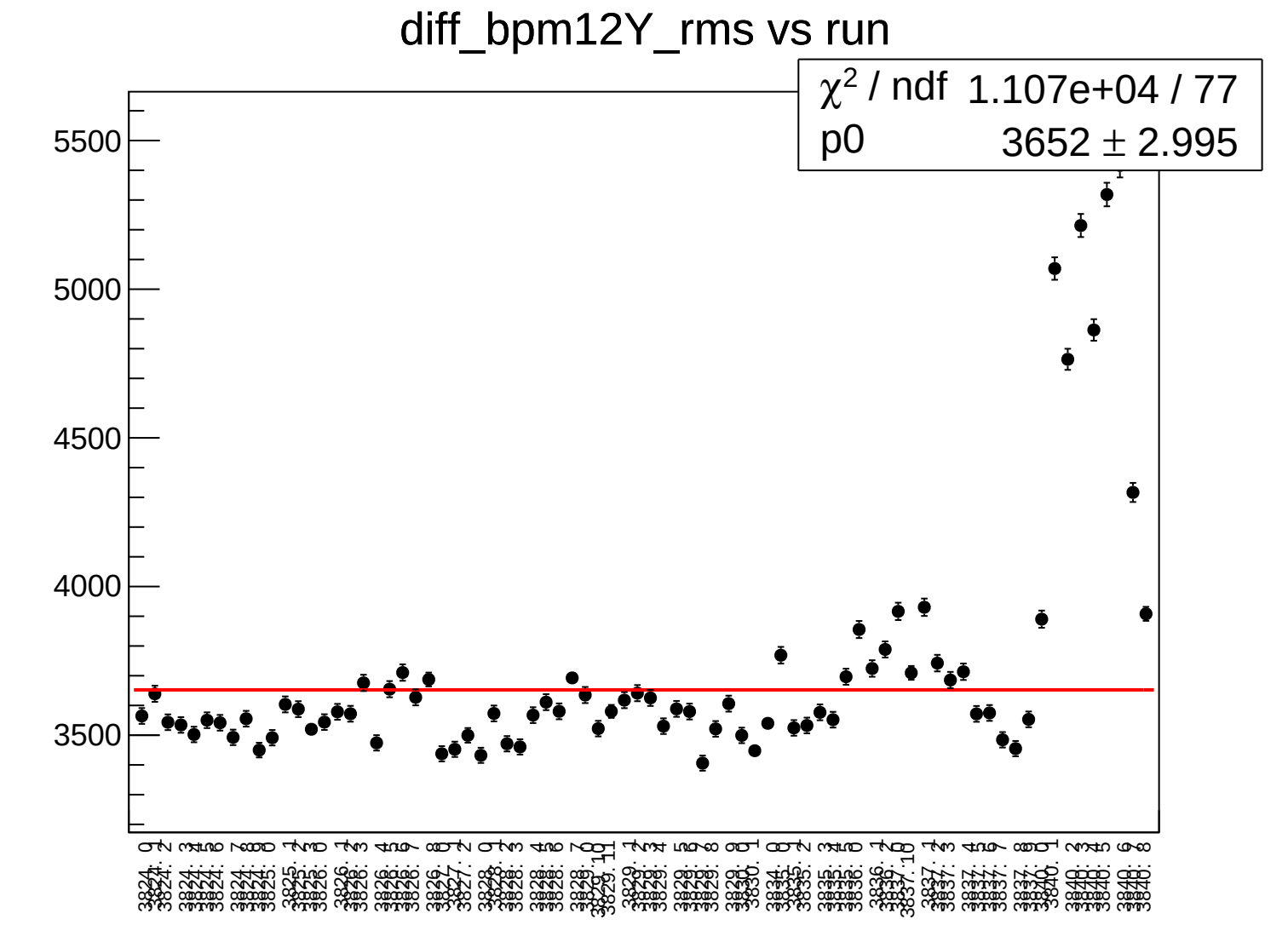

diff_bpm12X_mean vs run
χ² / ndf 95.1 / 77
p0 −0.1427 ± 5.434
pull
Entries 78
Mean −134
Std Dev 213.3

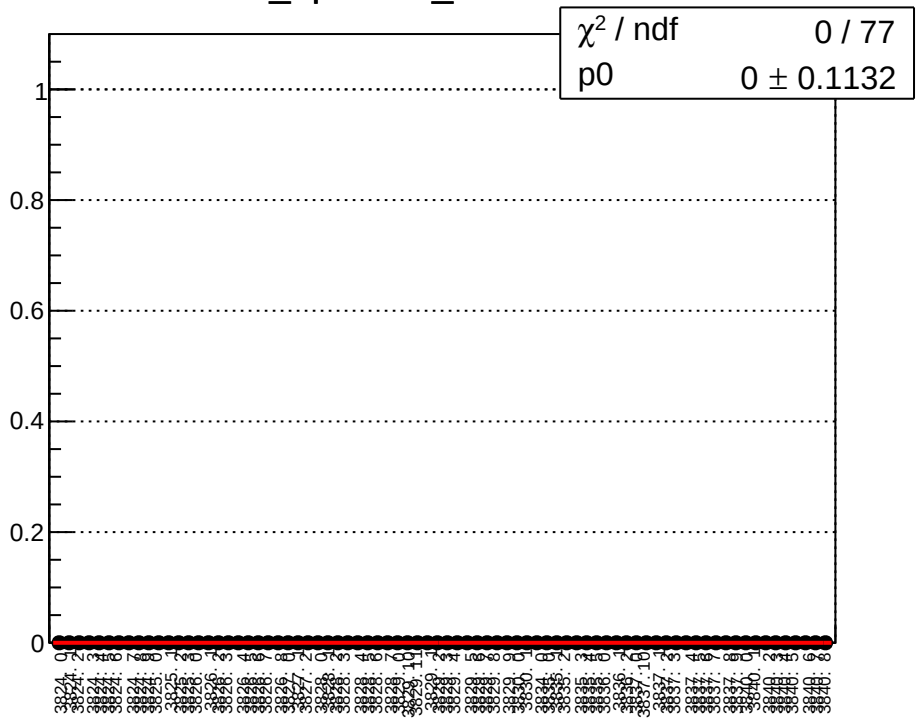

pull1D
Entries 78
Mean −0.002043
Std Dev 1.104

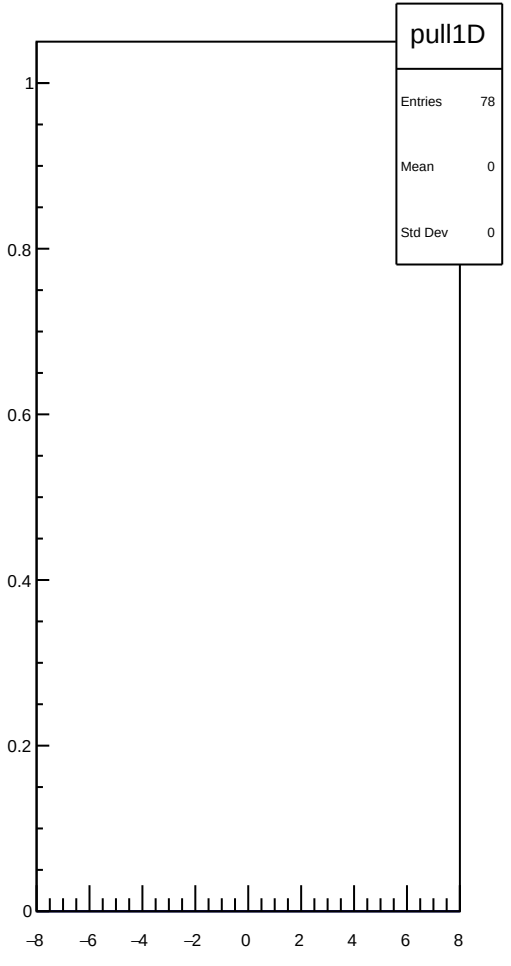

diff_bpm12X_rms vs run
χ² / ndf 2.331e+04 / 77
p0 4666 ± 3.843
9000
8000
7000
6000
5000
4000

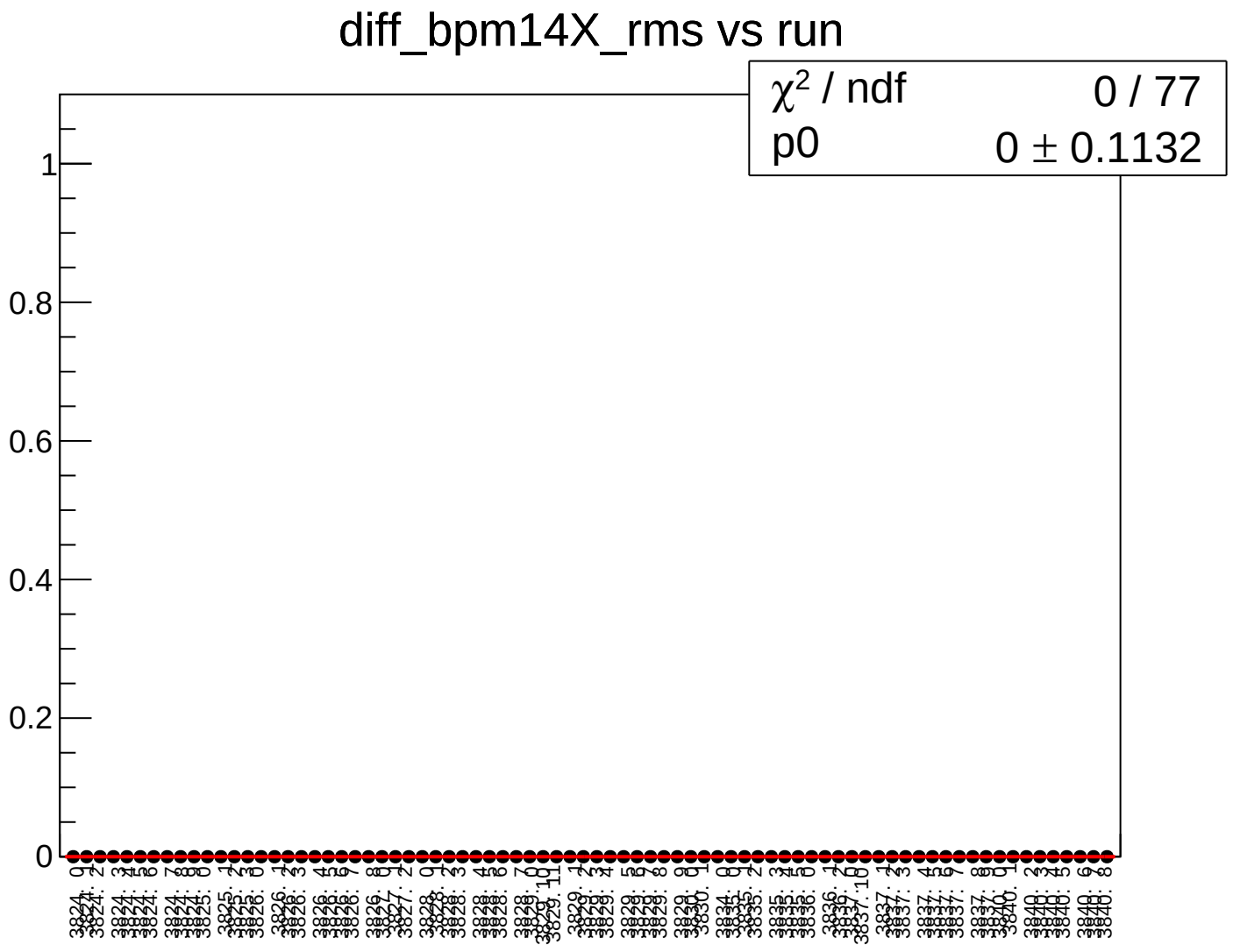

diff_bpm12Y_mean vs run
χ² / ndf 88.94 / 77
p0 −4.274 ± 4.236
100
50
0
−50
−100
−150
pull
Entries 78
Mean 210.3
Std Dev 167.8
2
1
0
−1
−2

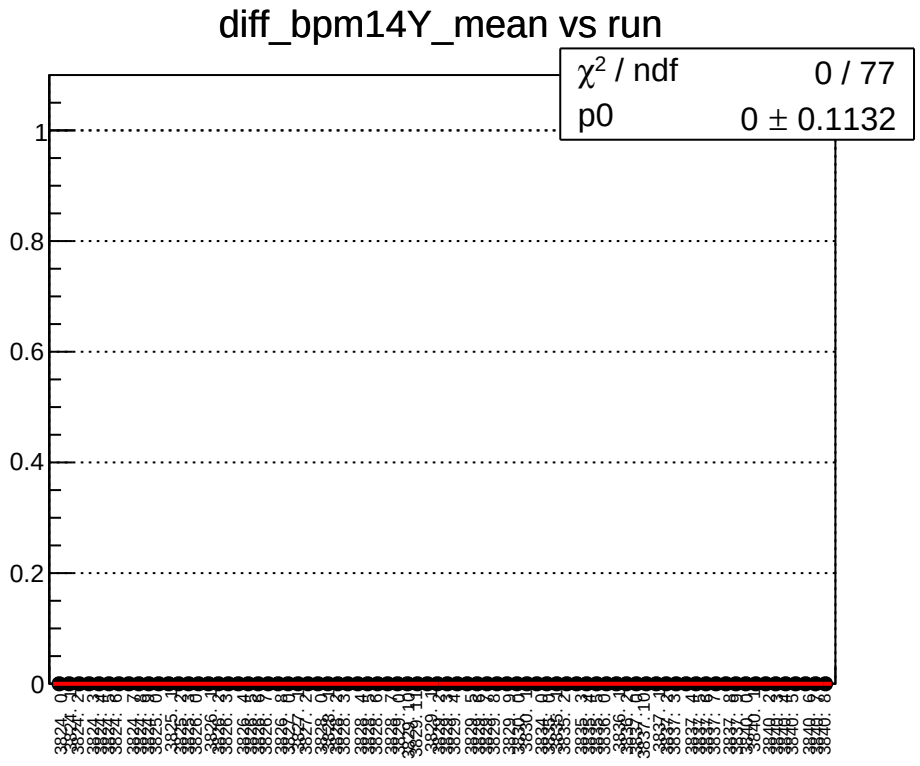

pull1D
Entries 78
Mean −0.01365
Std Dev 1.068
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

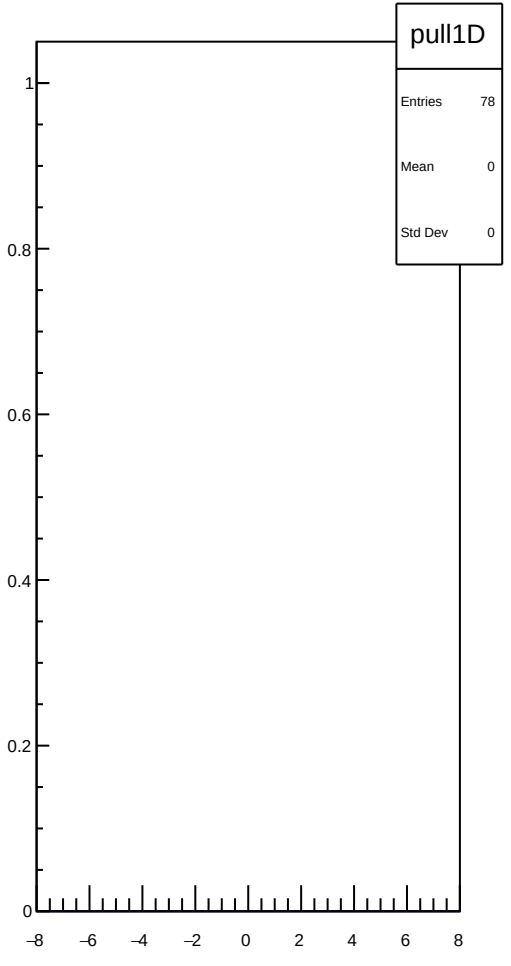

diff_bpm12Y_rms vs run
χ² / ndf 1.107e+04 / 77
p0 3652 ± 2.995
5500
5000
4500
4000
3500

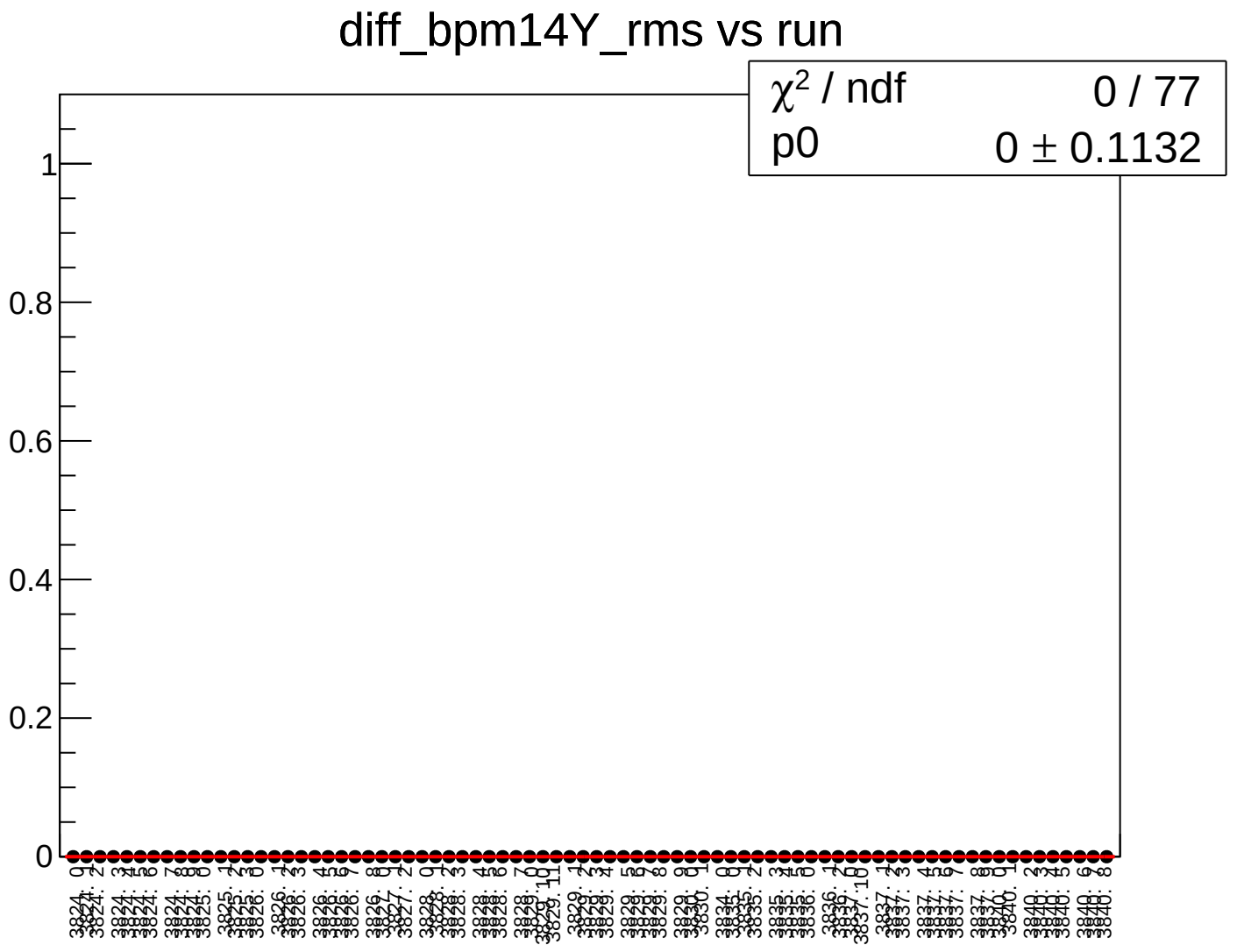

diff_bpm14X_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

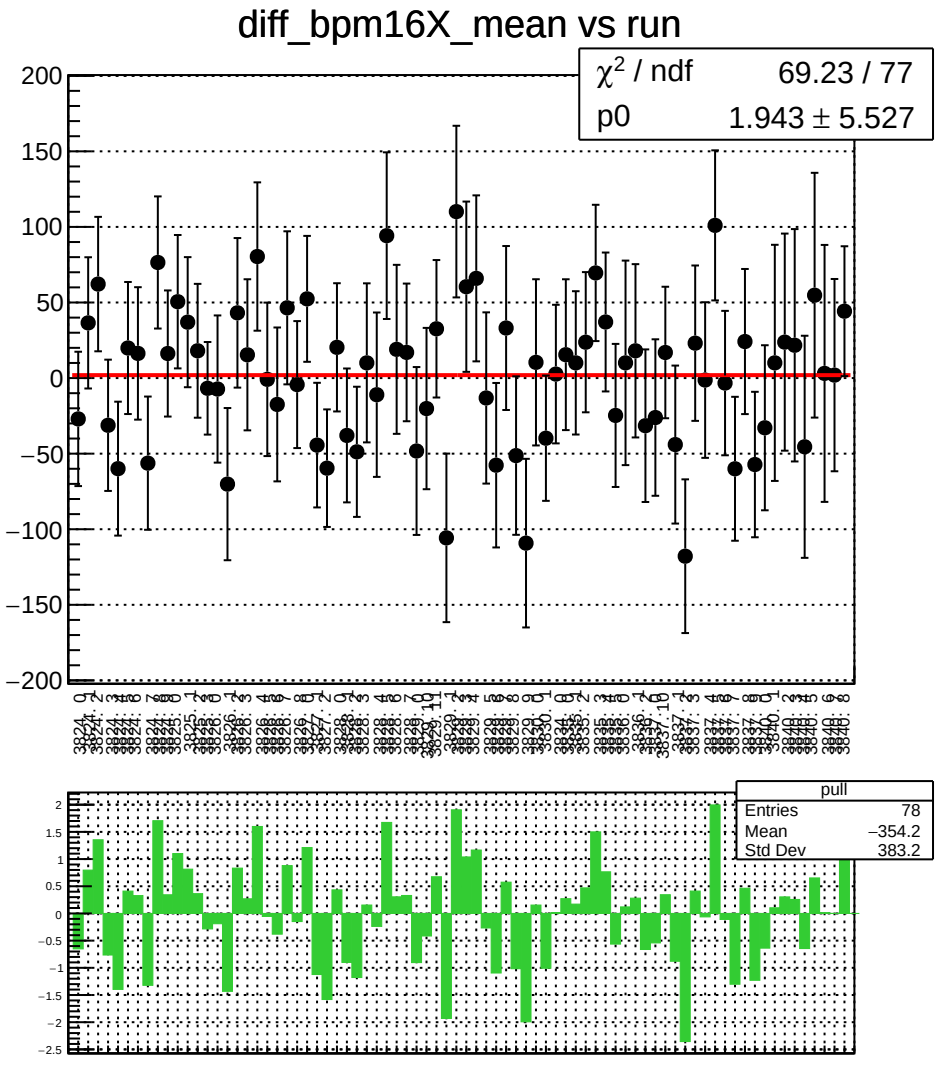

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

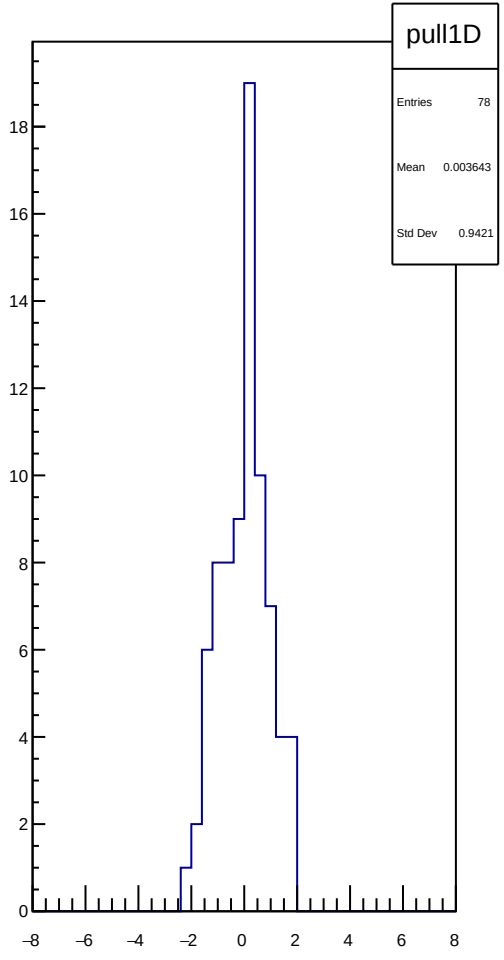

diff_bpm14X_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

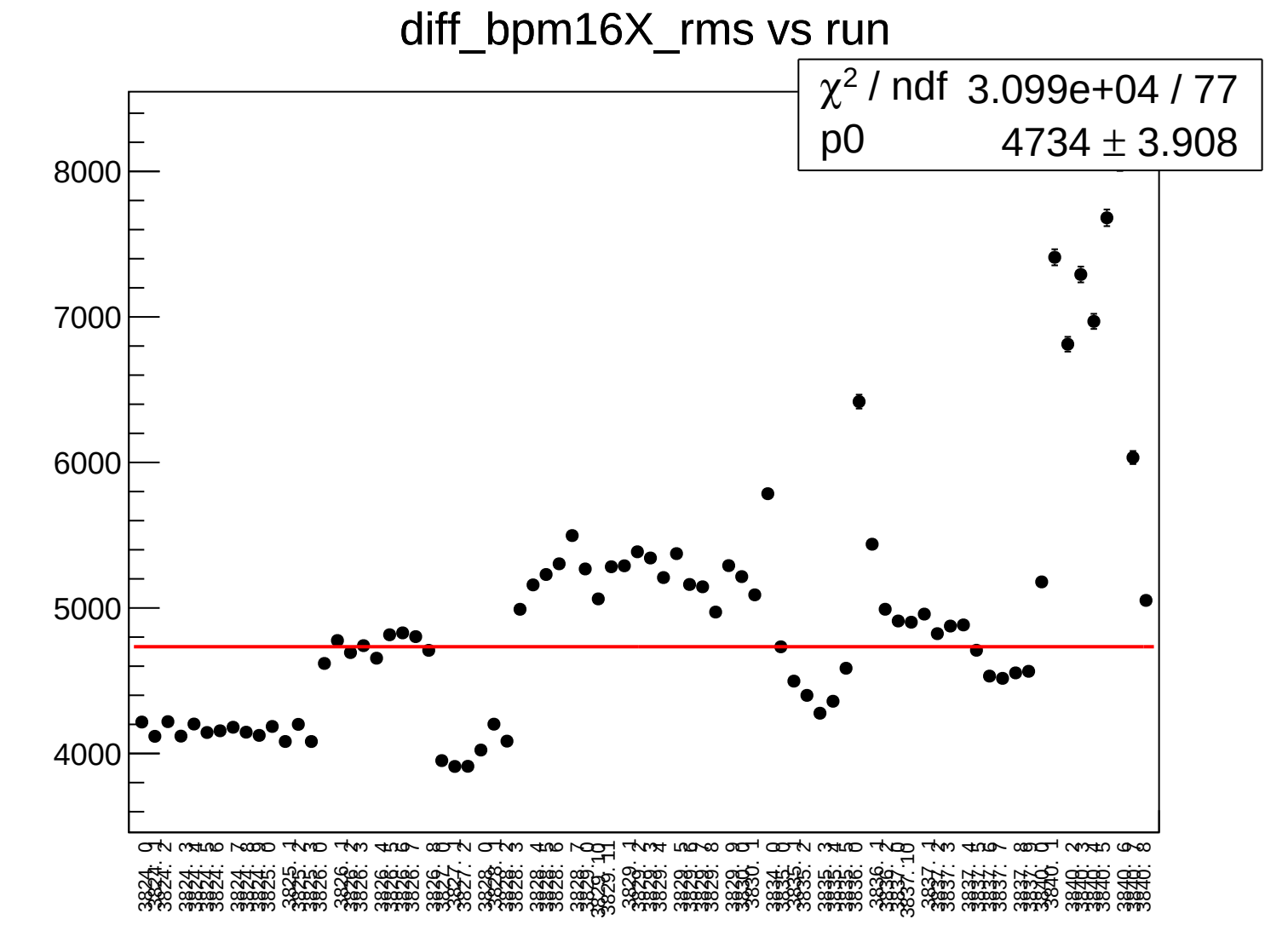

diff_bpm14Y_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

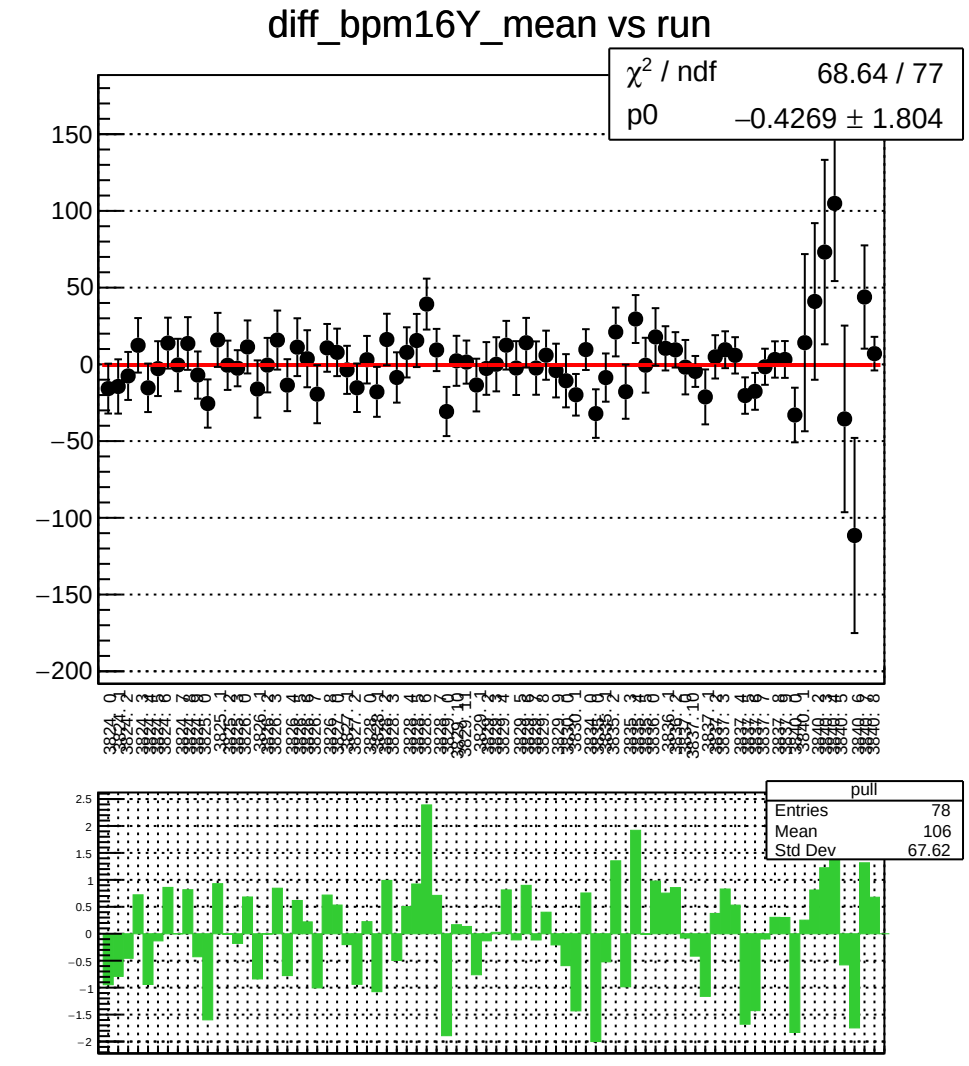

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

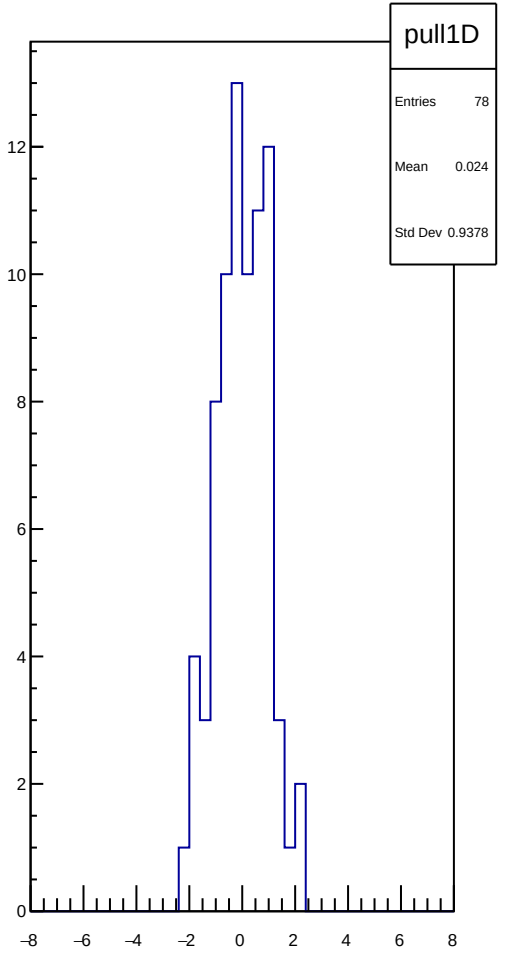

diff_bpm14Y_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

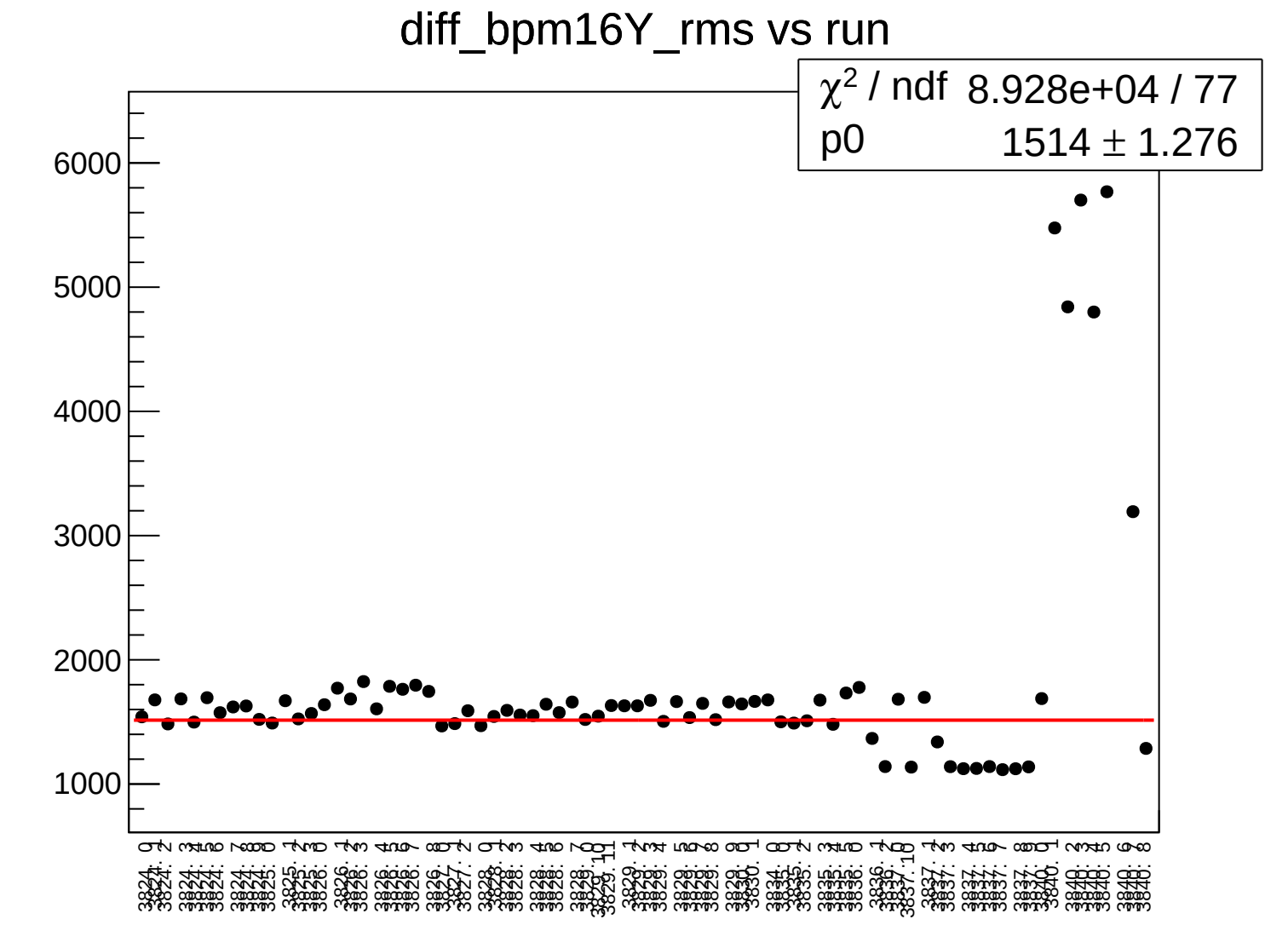

diff_bpm16X_mean vs run
χ^2 / ndf 69.23 / 77
p0 1.943 ± 5.527
pull
Entries 78
Mean −354.2
Std Dev 383.2

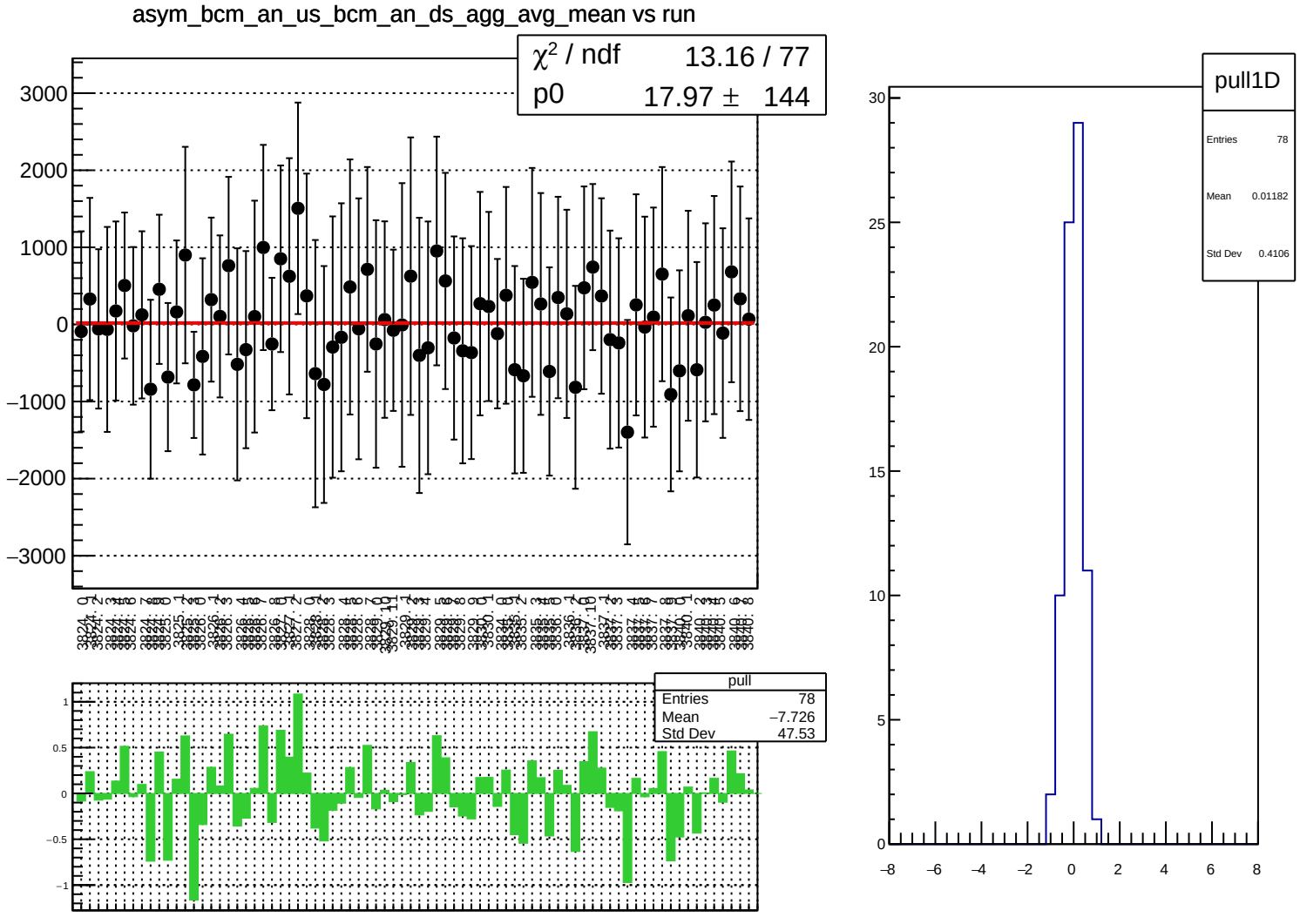

pull1D
Entries 78
Mean 0.003643
Std Dev 0.9421

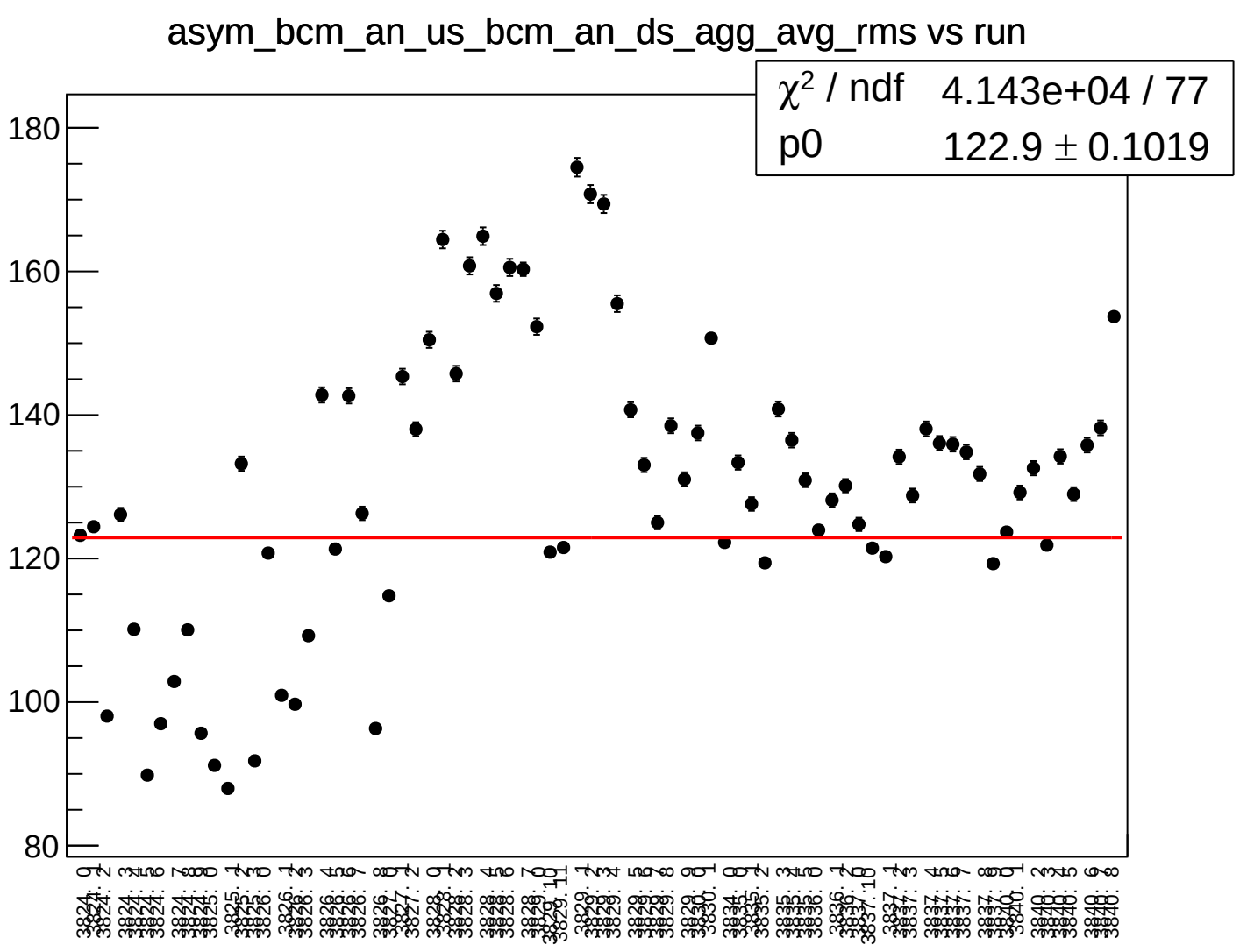

diff_bpm16X_rms vs run
χ² / ndf 3.099e+04 / 77
p0 4734 ± 3.908
8000
7000
6000
5000
4000

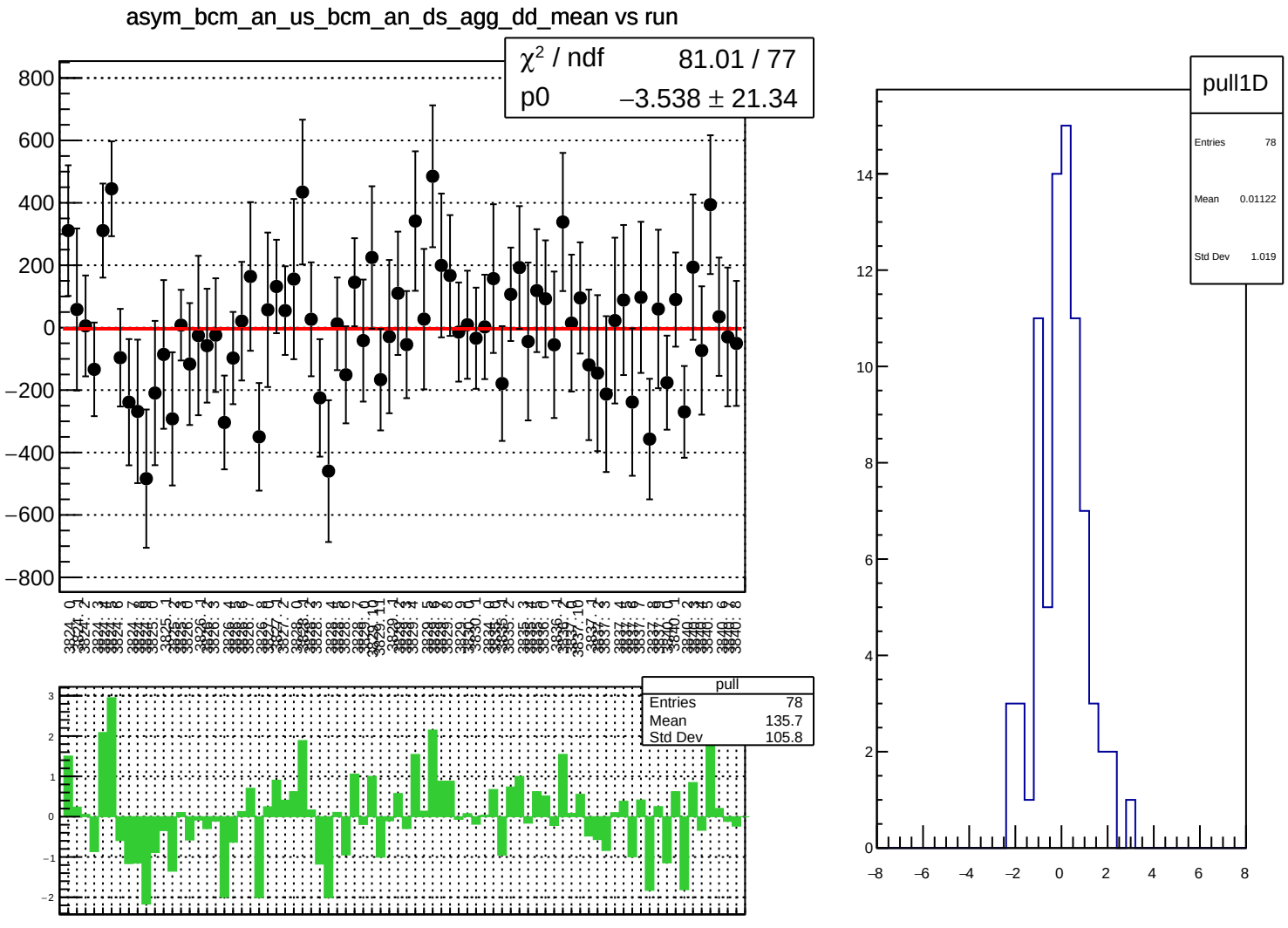

diff_bpm16Y_mean vs run
χ² / ndf 68.64 / 77
p0 −0.4269 ± 1.804
pull
Entries 78
Mean 106
Std Dev 67.62

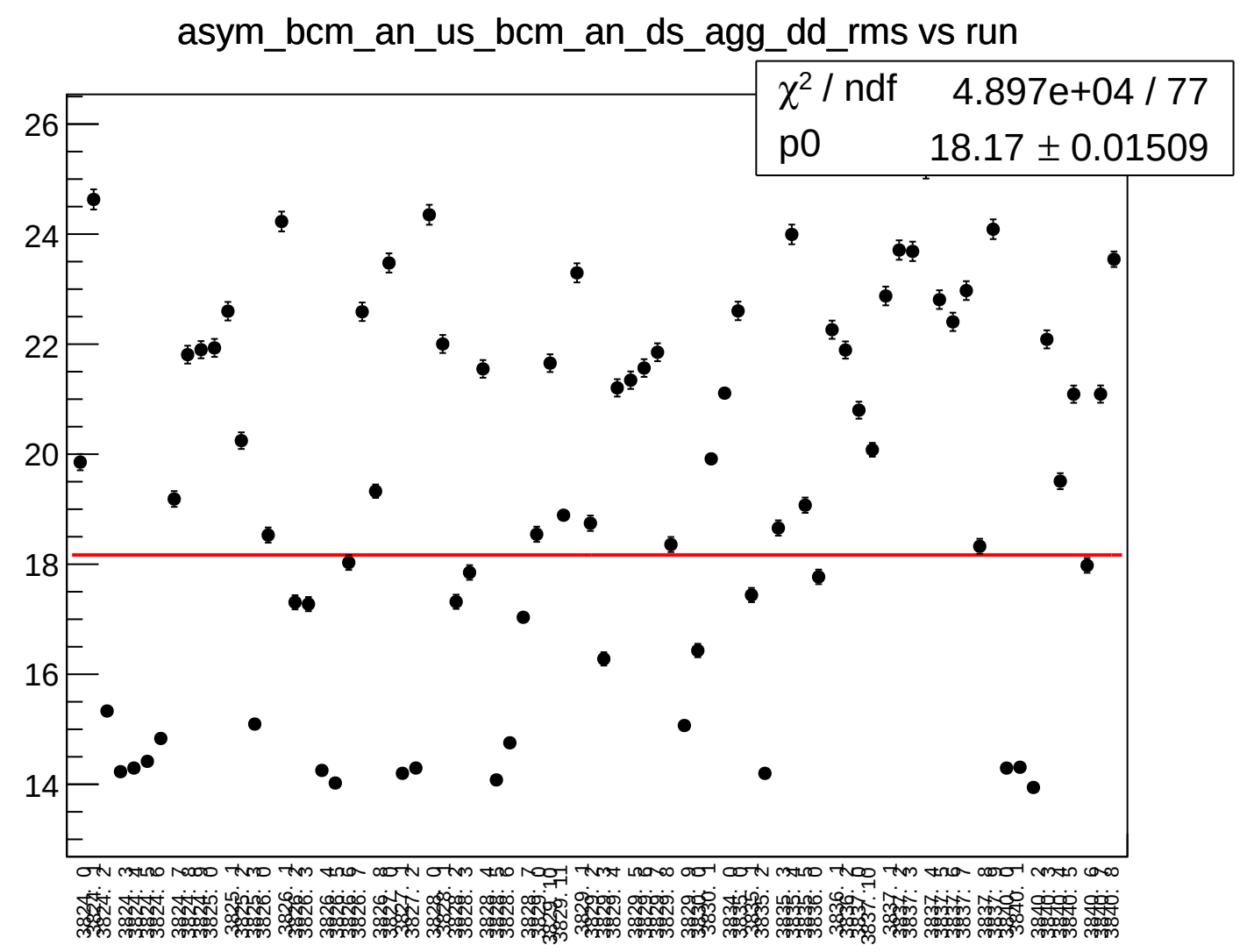

pull1D
Entries 78
Mean 0.024
Std Dev 0.9378

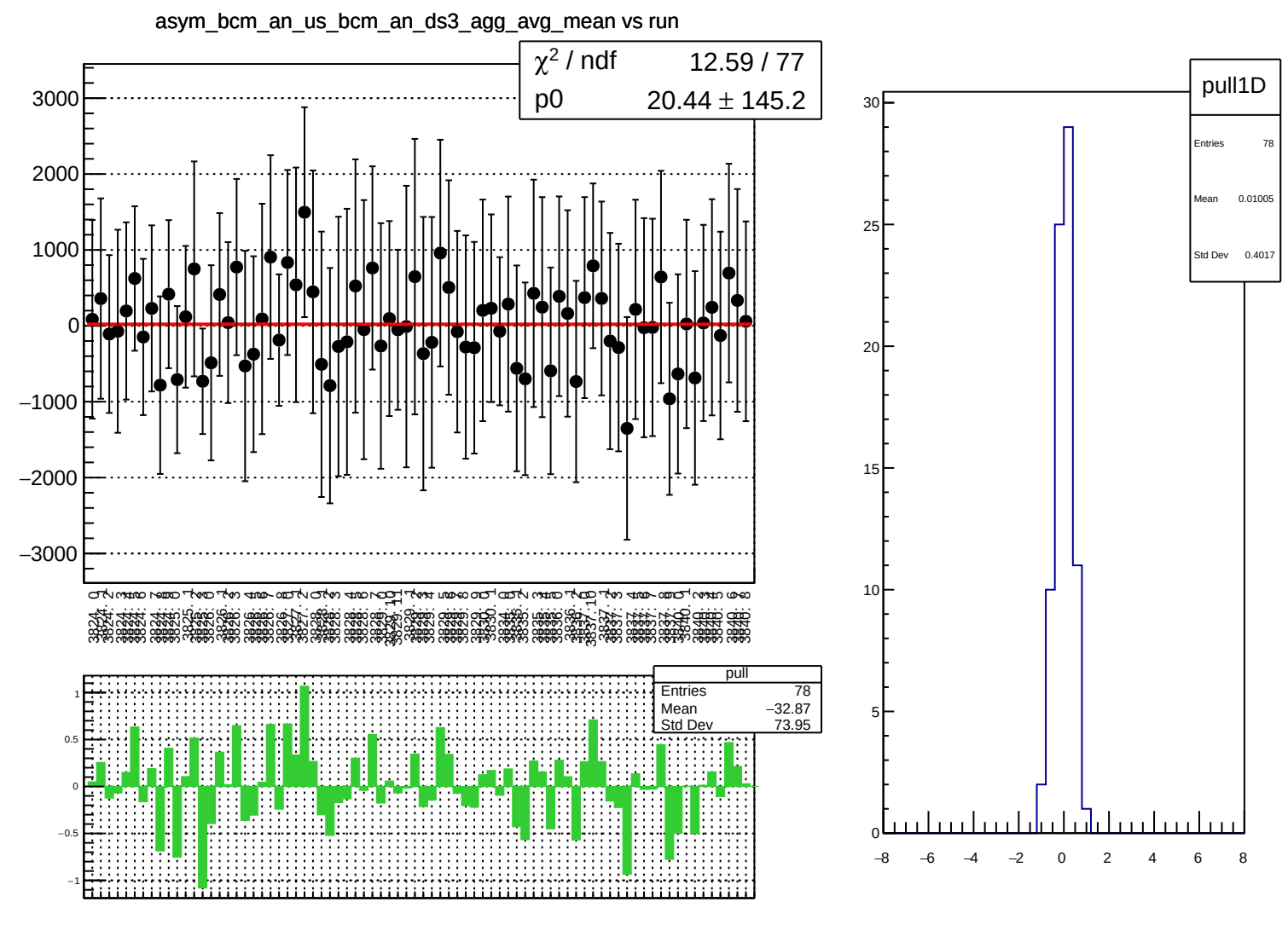

diff_bpm16Y_rms vs run
χ² / ndf 8.928e+04 / 77
p0 1514 ± 1.276
6000
5000
4000
3000
2000
1000

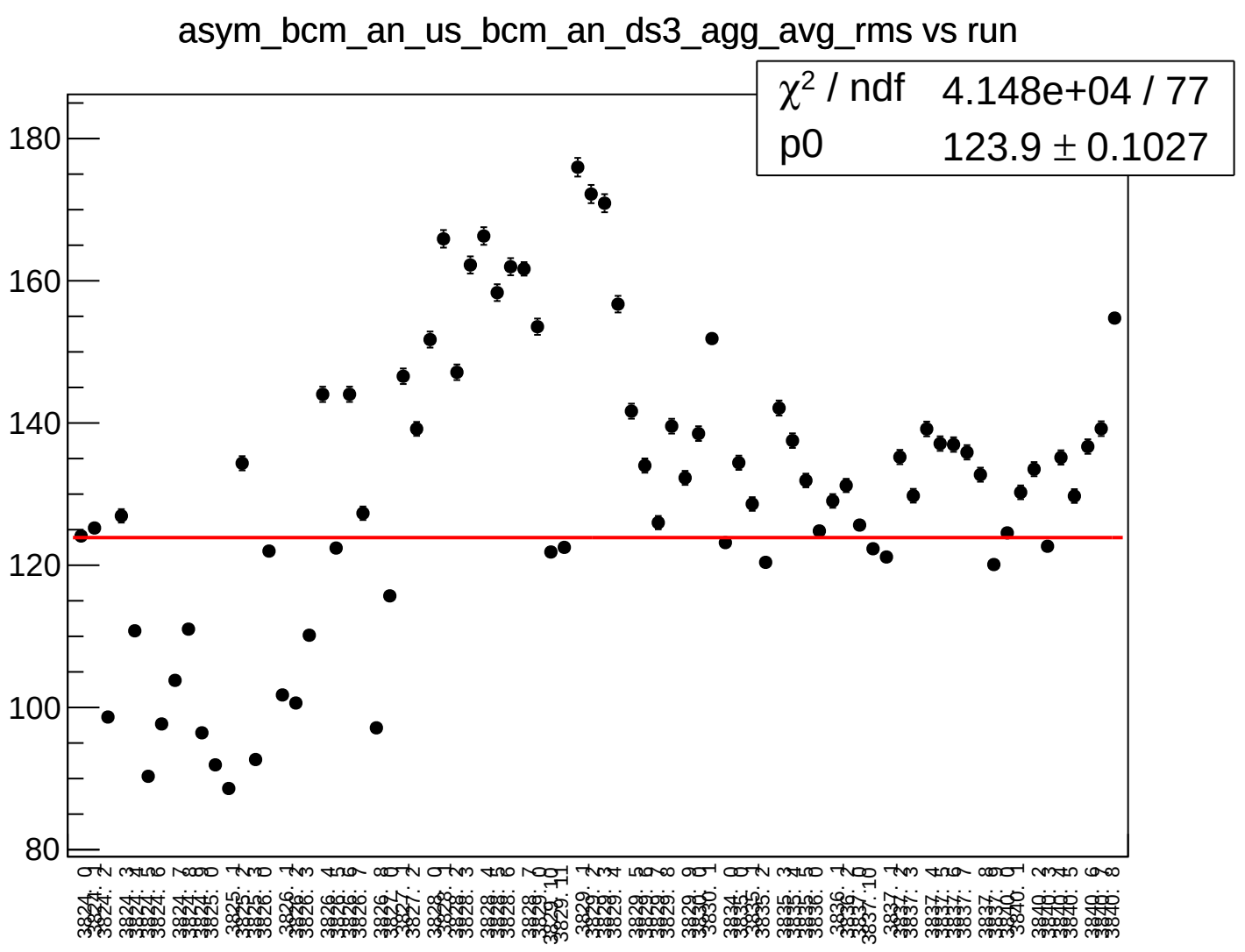

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.16 / 77
p0 17.97 ± 144
pull
Entries 78
Mean −7.726
Std Dev 47.53
pull1D
Entries 78
Mean 0.01182
Std Dev 0.4106

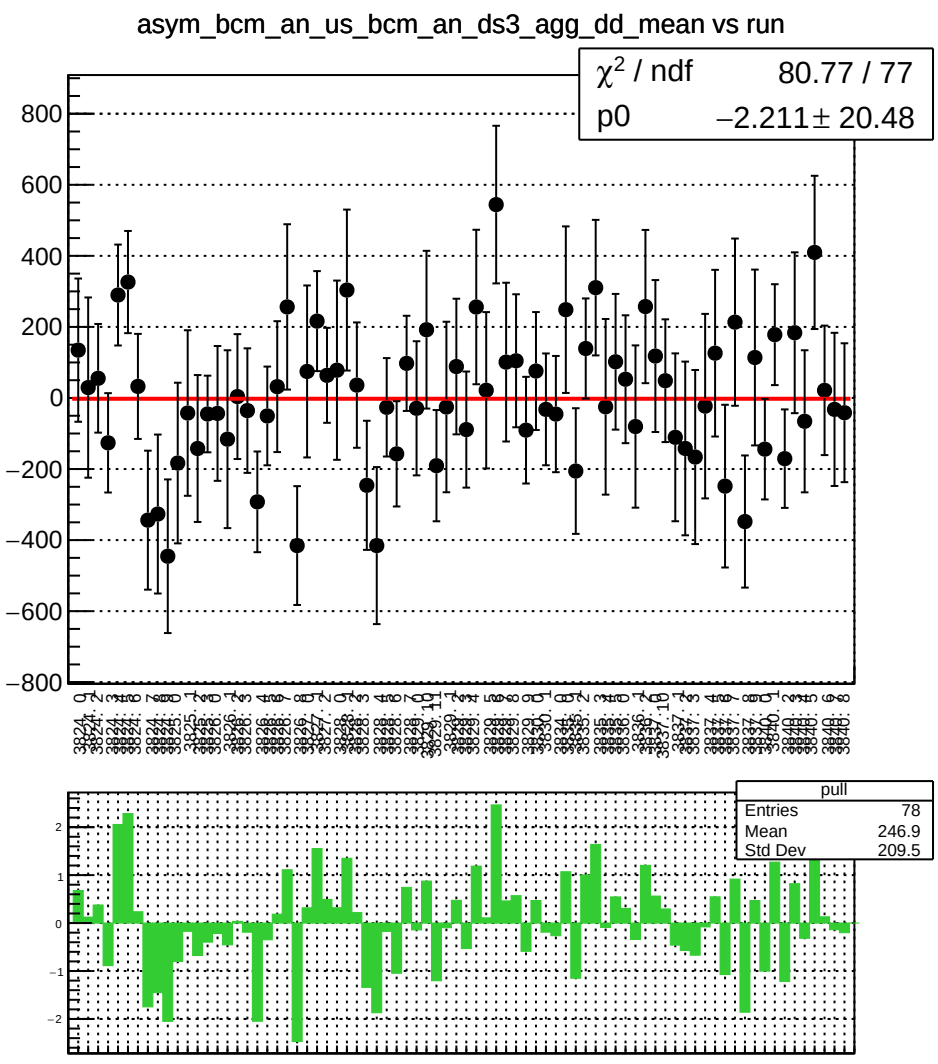

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.143e+04 / 77
p0 122.9 ± 0.1019
180
160
140
120
100
80

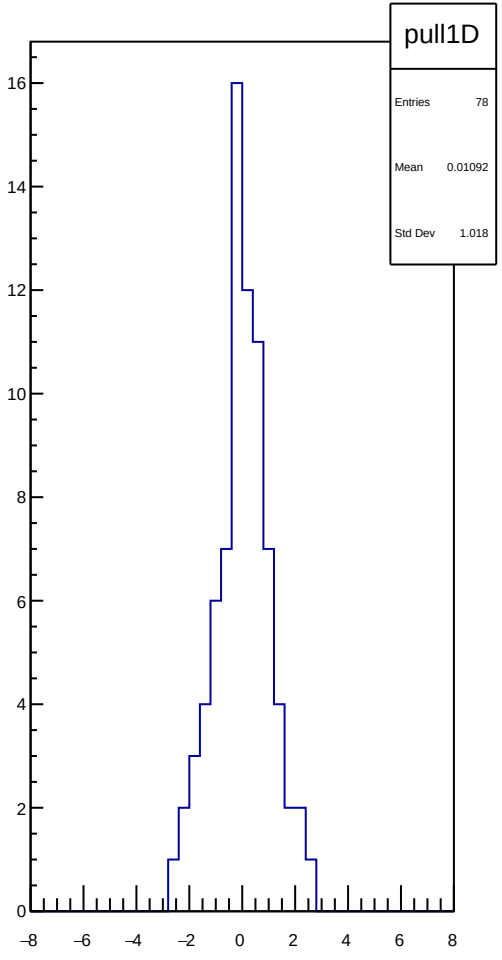

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 81.01 / 77
p0 −3.538 ± 21.34
pull
Entries 78
Mean 135.7
Std Dev 105.8
pull1D
Entries 78
Mean 0.01122
Std Dev 1.019

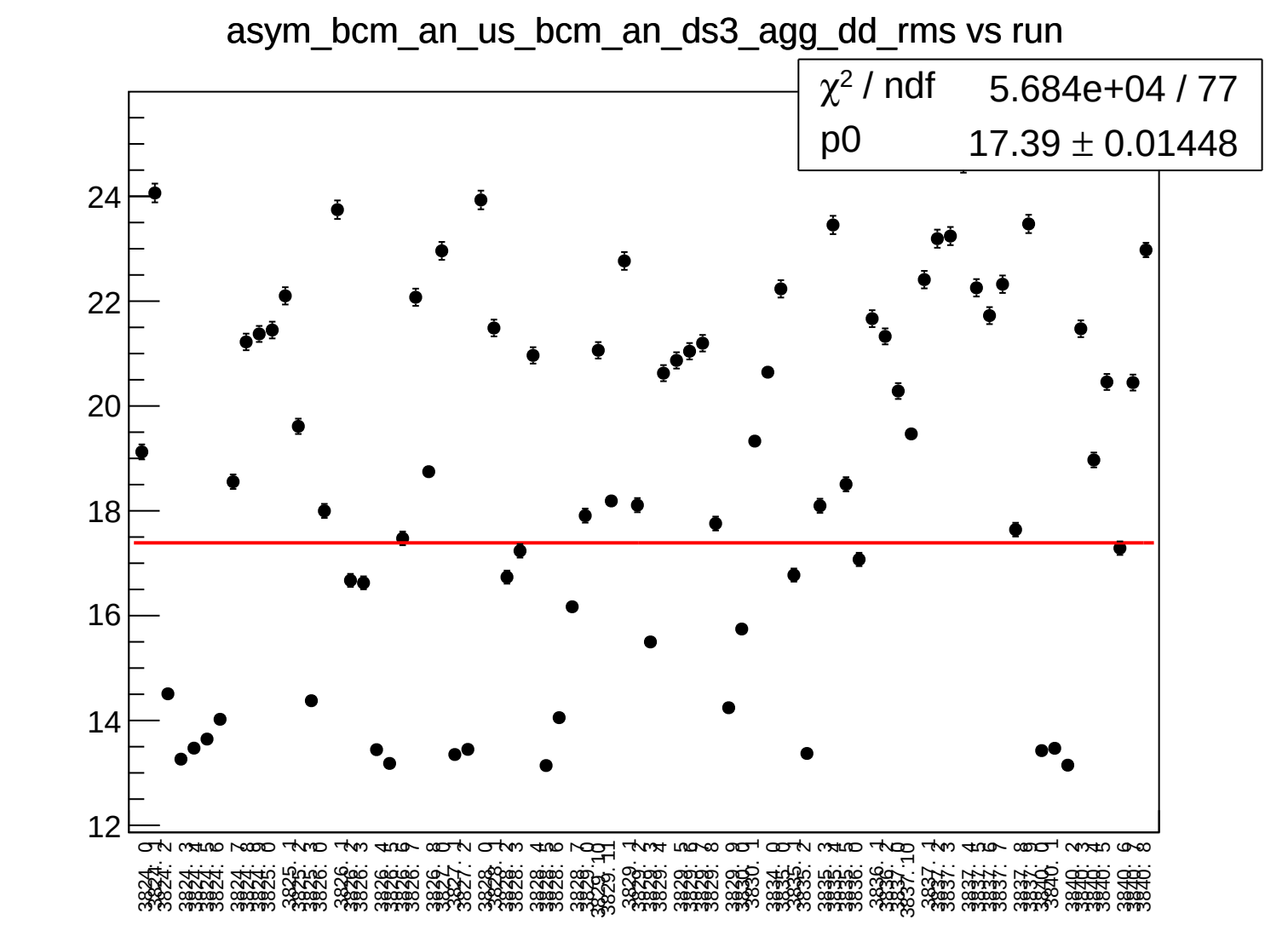

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4.897e+04 / 77
p0 18.17 ± 0.01509
26
24
22
20
18
16
14

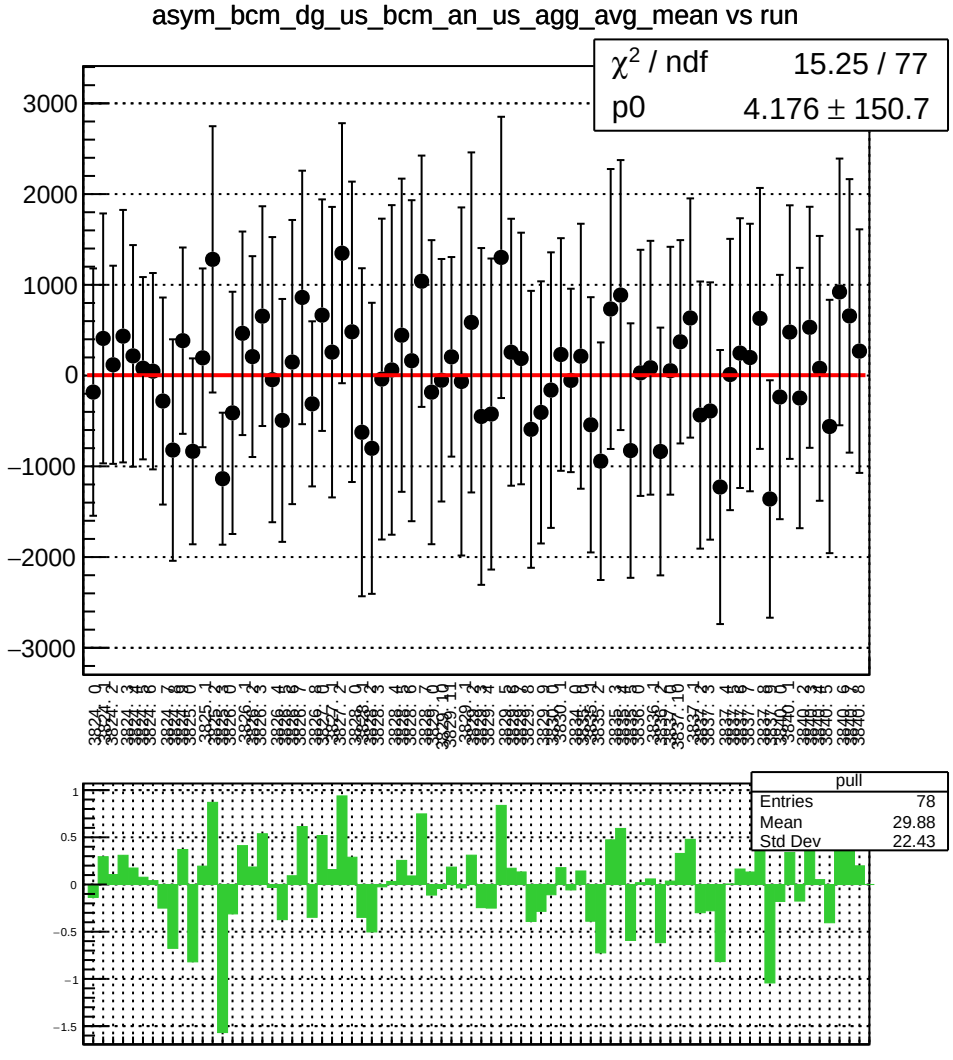

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 12.59 / 77
p0 20.44 ± 145.2
pull
Entries 78
Mean −32.87
Std Dev 73.95
pull1D
Entries 78
Mean 0.01005
Std Dev 0.4017

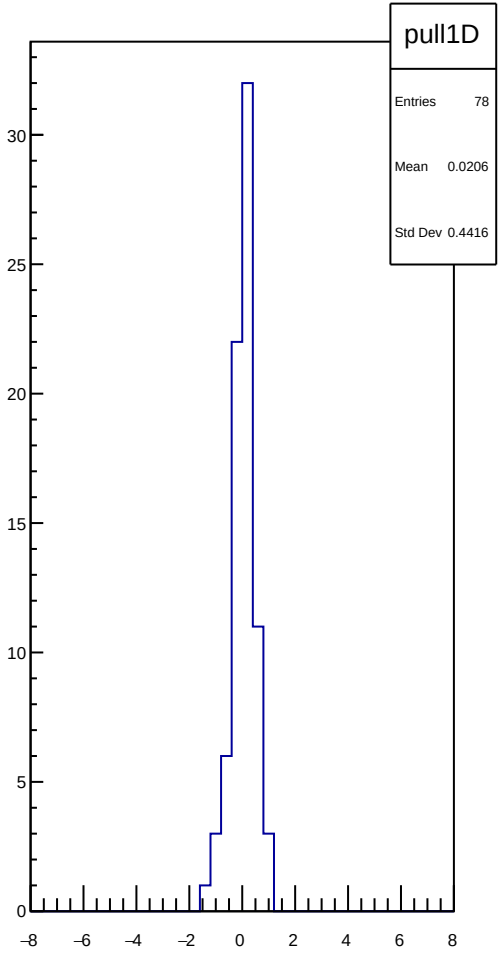

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 4.148e+04 / 77
p0 123.9 ± 0.1027
180
160
140
120
100
80

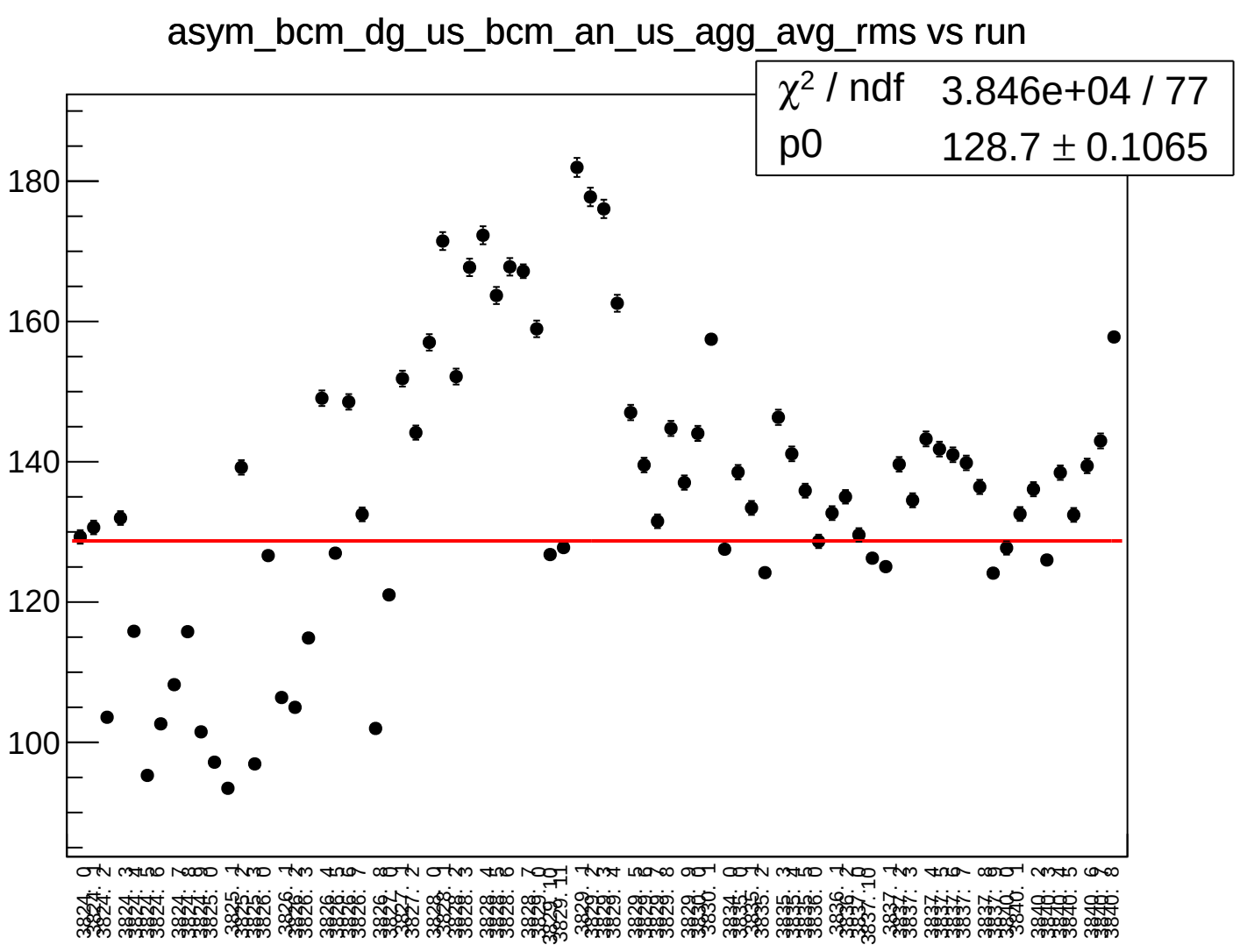

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 80.77 / 77
p0 −2.211± 20.48
pull
Entries 78
Mean 246.9
Std Dev 209.5

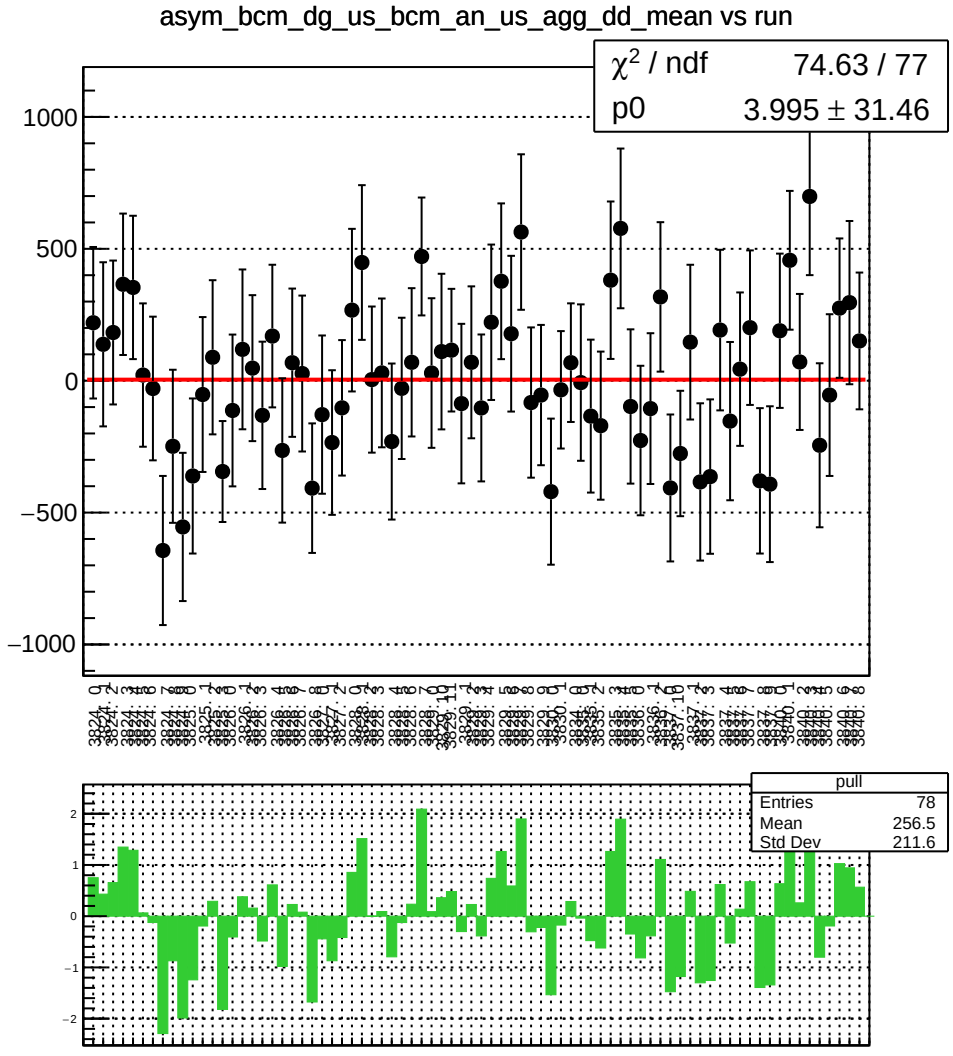

pull1D
Entries 78
Mean 0.01092
Std Dev 1.018

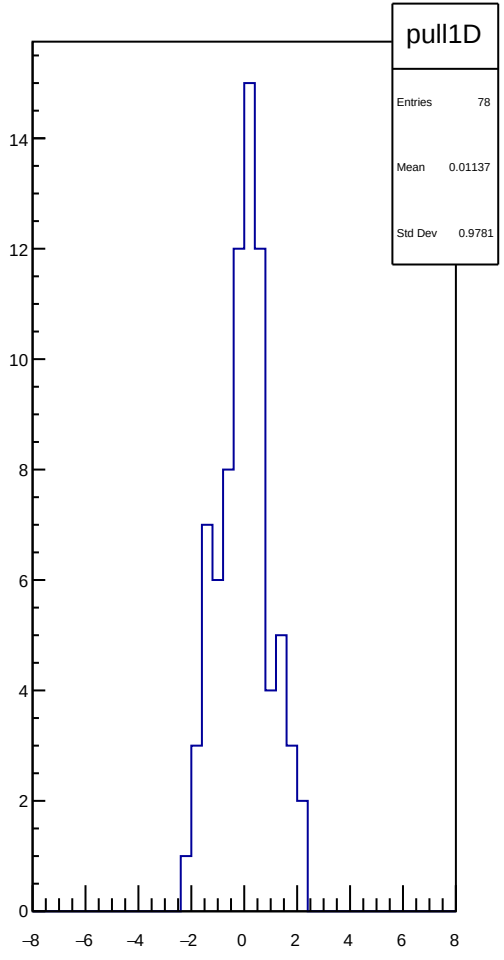

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 5.684e+04 / 77
p0 17.39 ± 0.01448
24
22
20
18
16
14
12

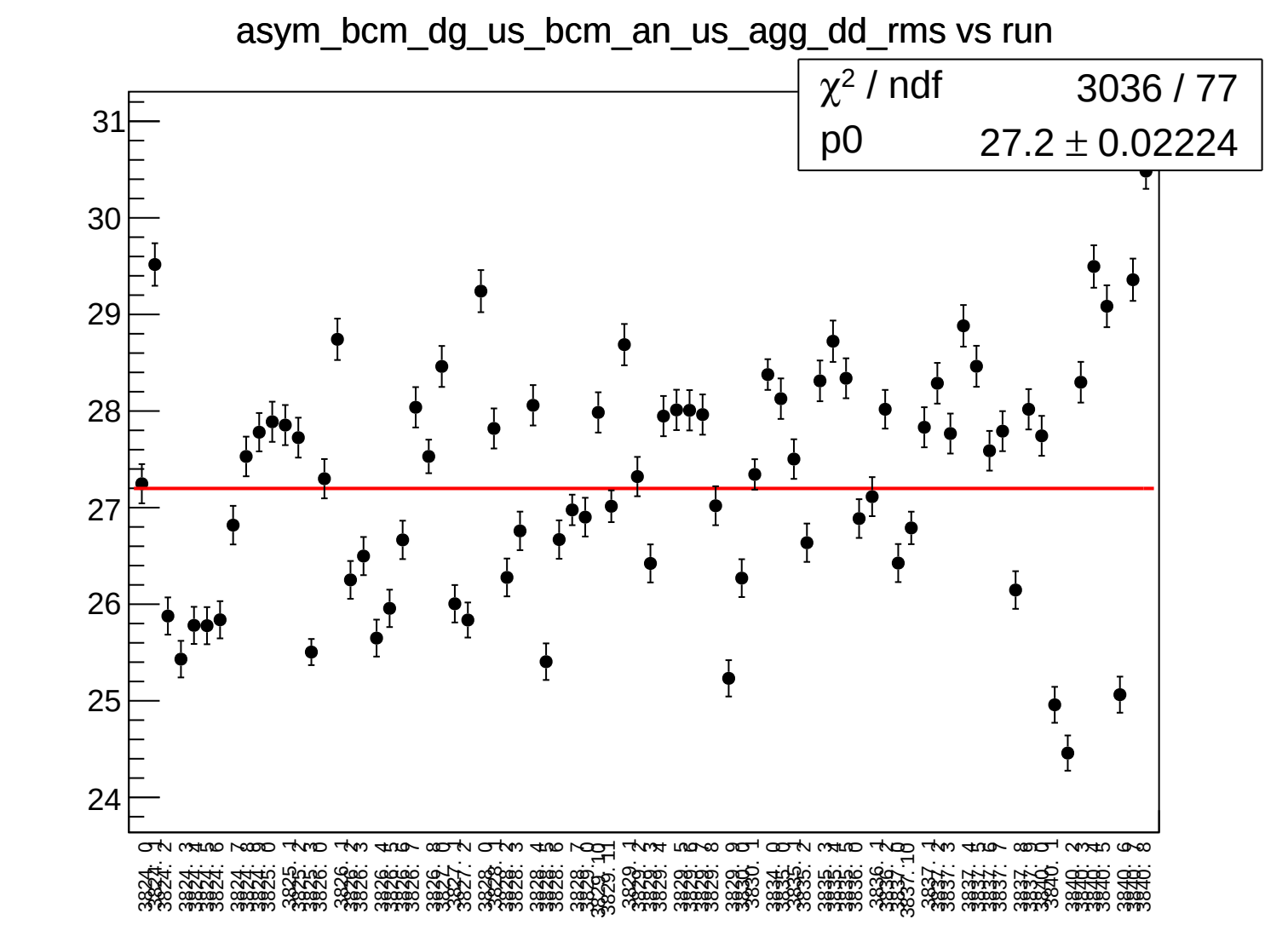

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.25 / 77
p0 4.176 ± 150.7
pull
Entries 78
Mean 29.88
Std Dev 22.43

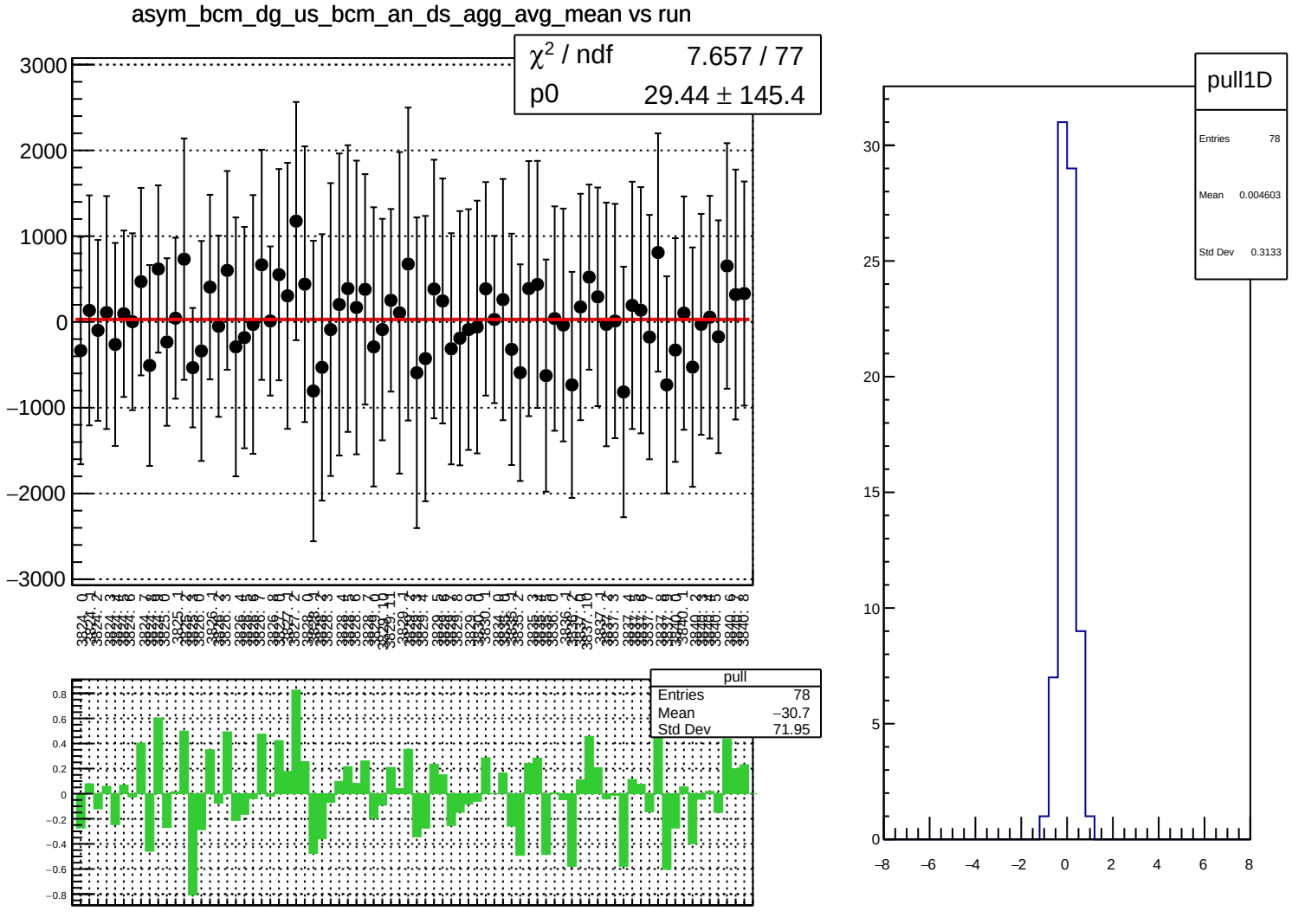

pull1D
Entries 78
Mean 0.0206
Std Dev 0.4416

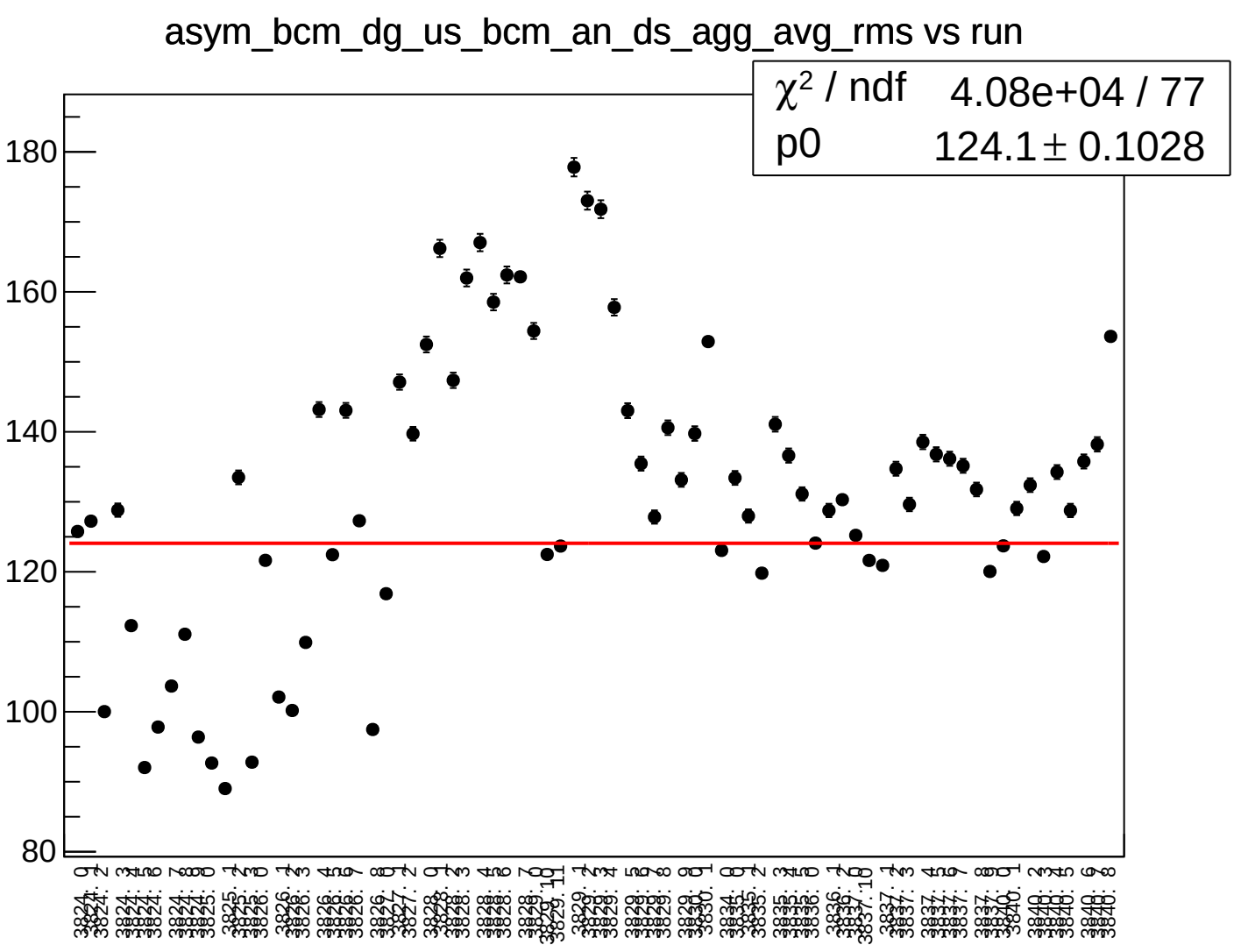

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.846e+04 / 77
p0 128.7 ± 0.1065
180
160
140
120
100

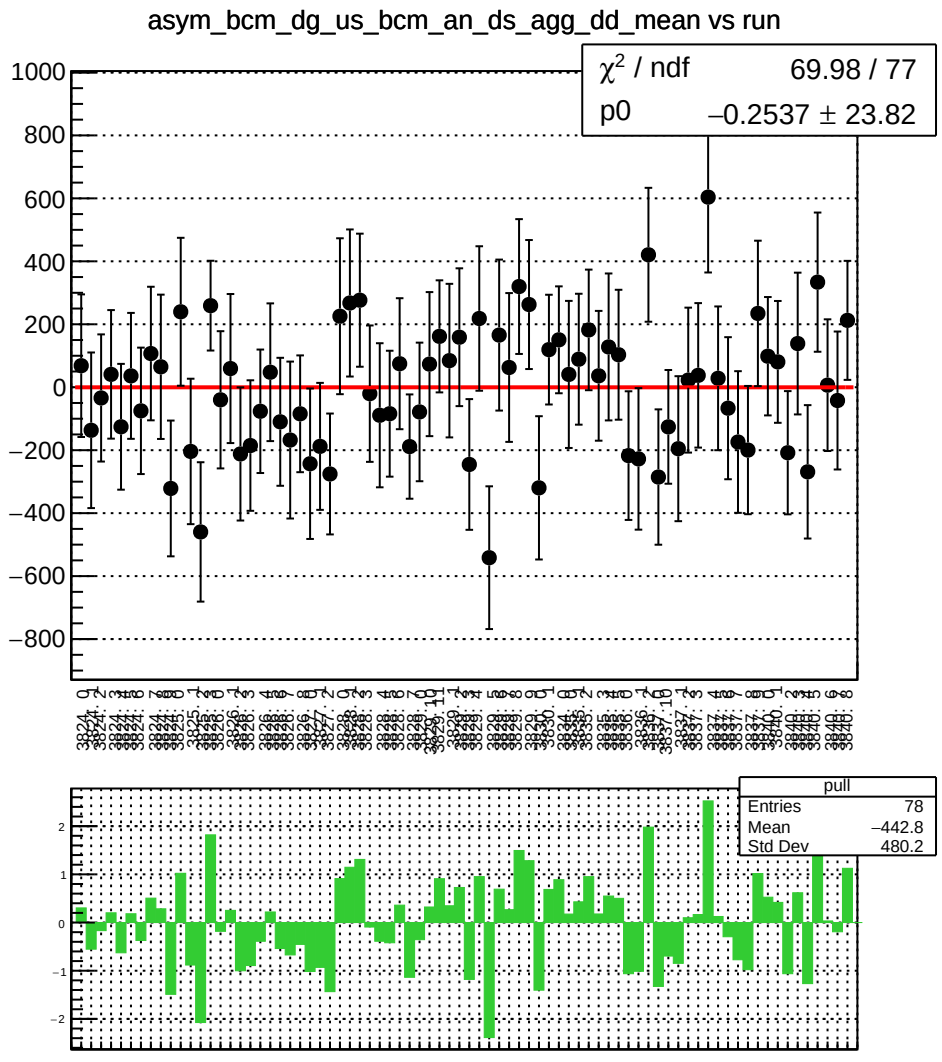

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 74.63 / 77
p0 3.995 ± 31.46
1000
500
0
−500
−1000
pull
Entries 78
Mean 256.5
Std Dev 211.6
2
1
0
−1
−2

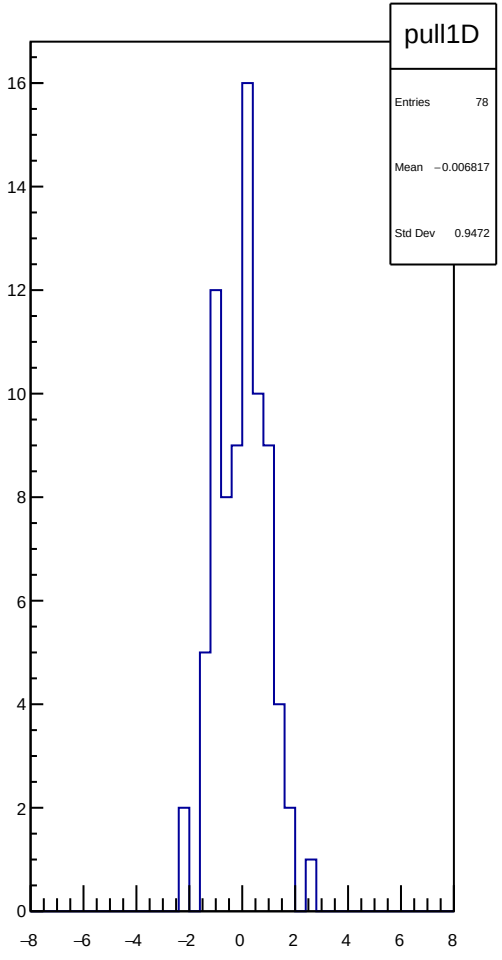

pull1D
Entries 78
Mean 0.01137
Std Dev 0.9781
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

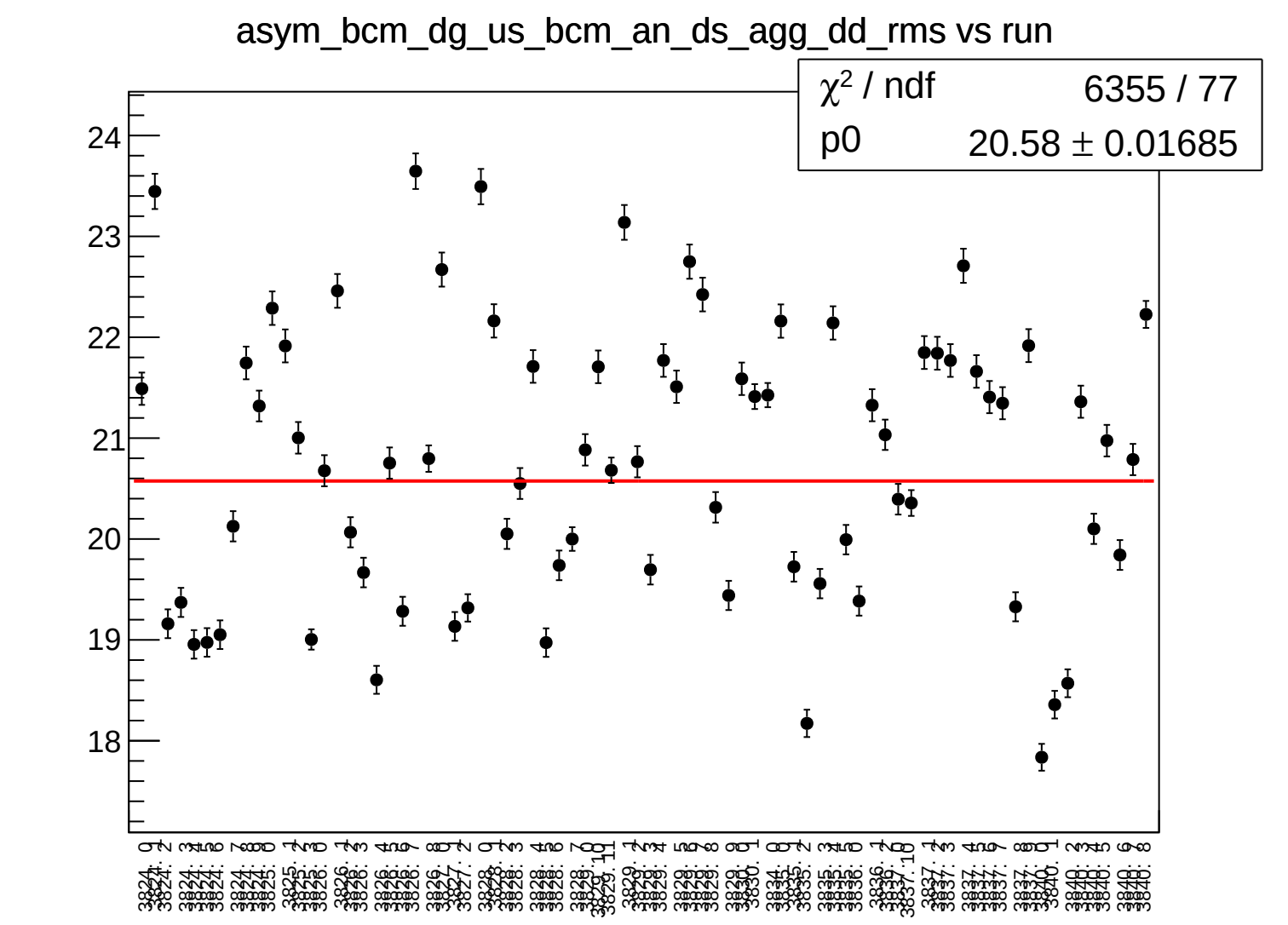

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3036 / 77
p0 27.2 ± 0.02224
31
30
29
28
27
26
25
24

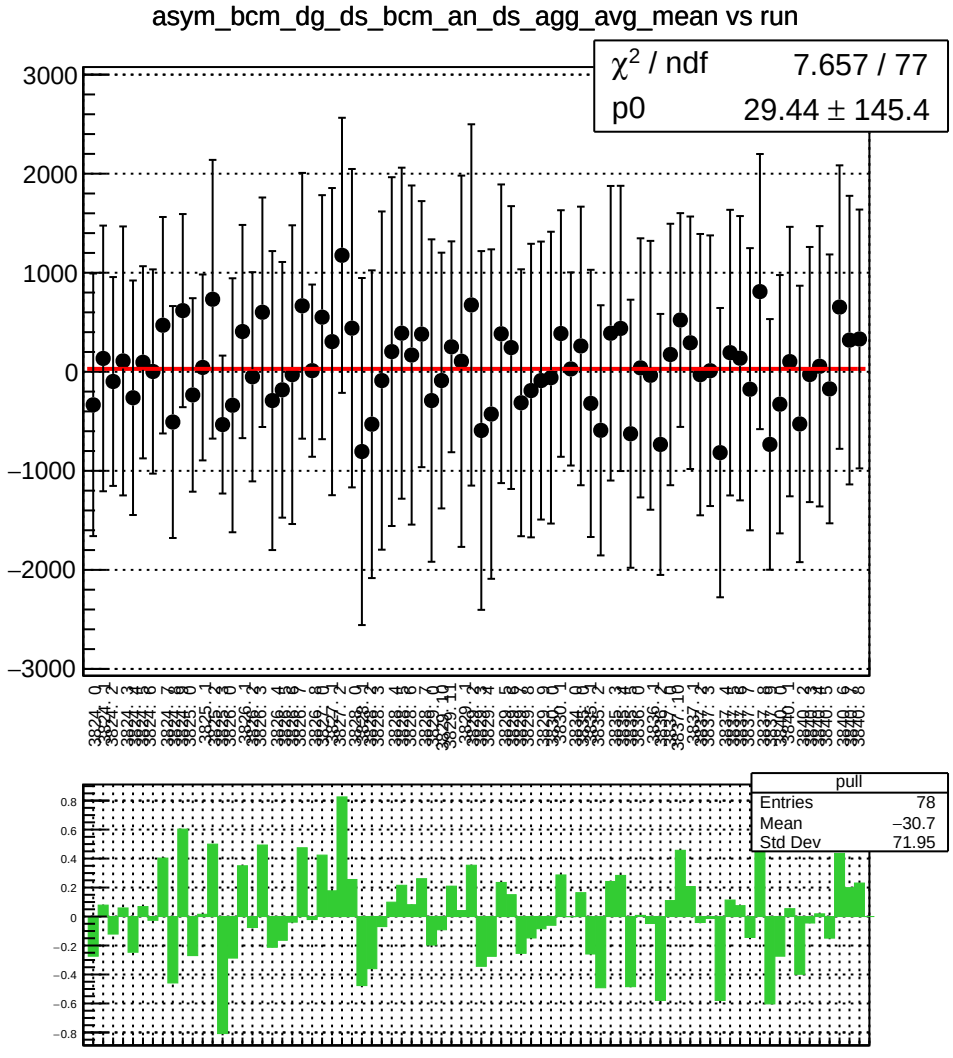

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.657 / 77
p0 29.44 ± 145.4
pull
Entries 78
Mean −30.7
Std Dev 71.95
pull1D
Entries 78
Mean 0.004603
Std Dev 0.3133

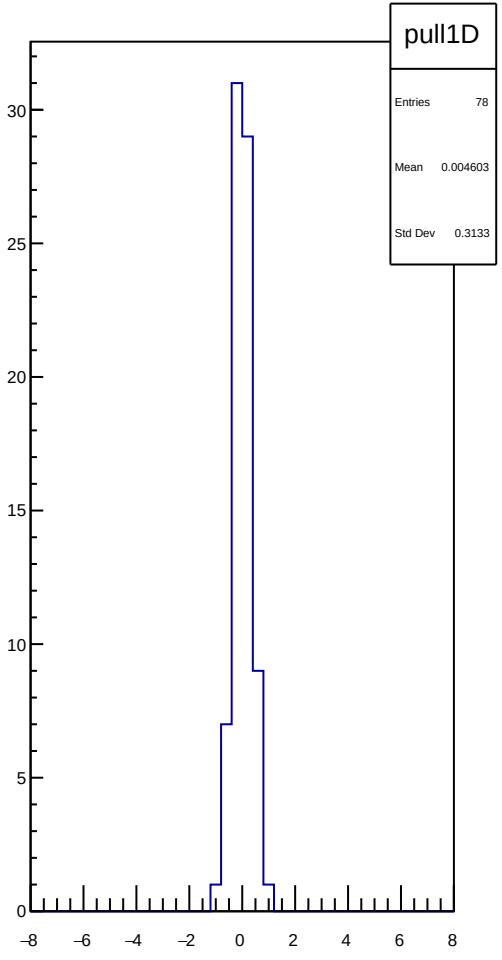

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.08e+04 / 77
p0 124.1 ± 0.1028
180
160
140
120
100
80

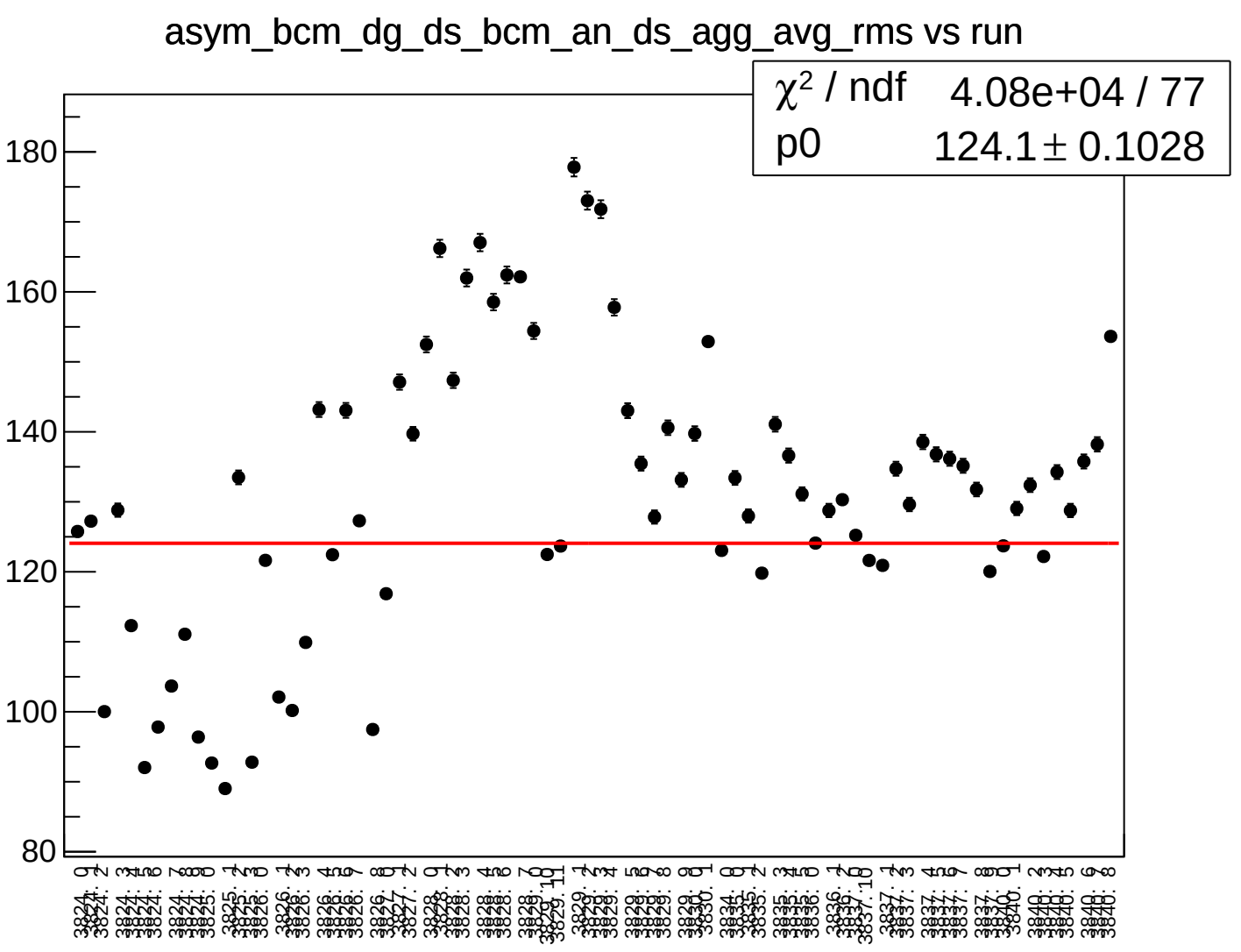

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 69.98 / 77
p0 −0.2537 ± 23.82
pull
Entries 78
Mean −442.8
Std Dev 480.2

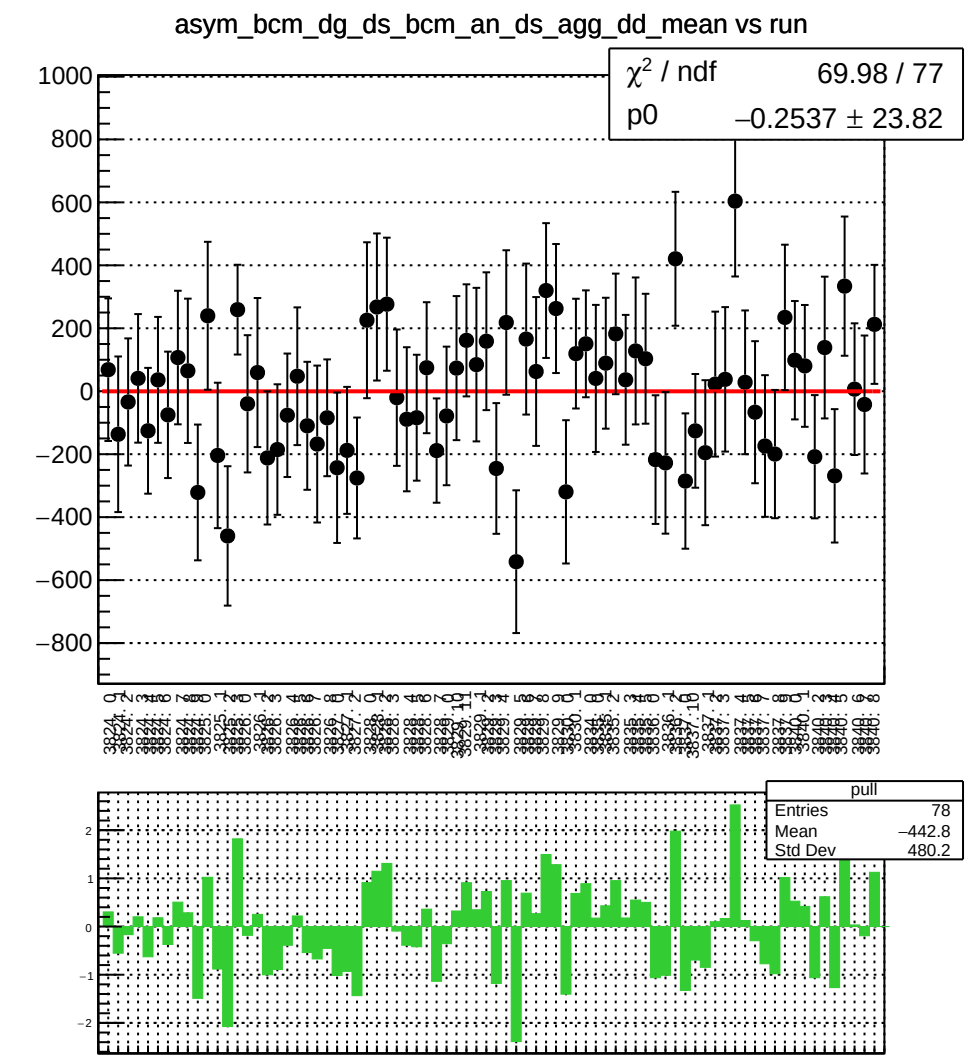

pull1D
Entries 78
Mean −0.006817
Std Dev 0.9472

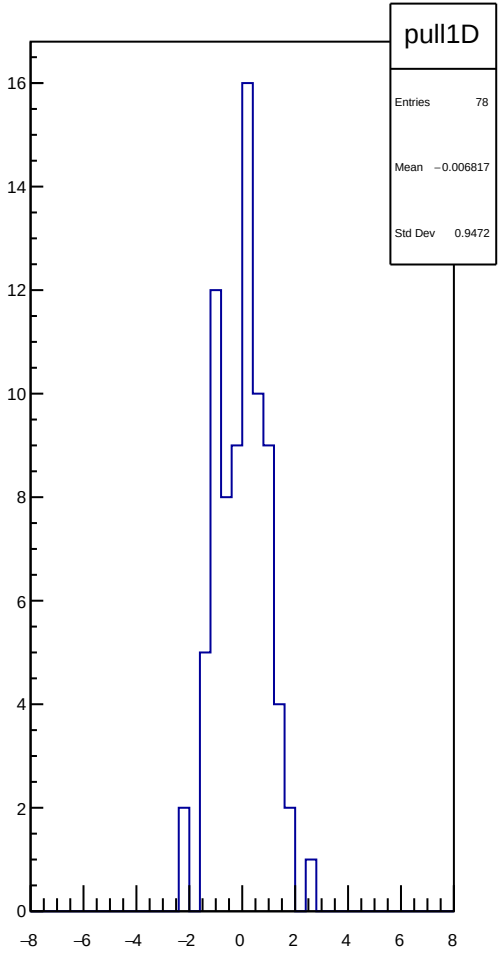

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 6355 / 77
p0 20.58 ± 0.01685
24
23
22
21
20
19
18

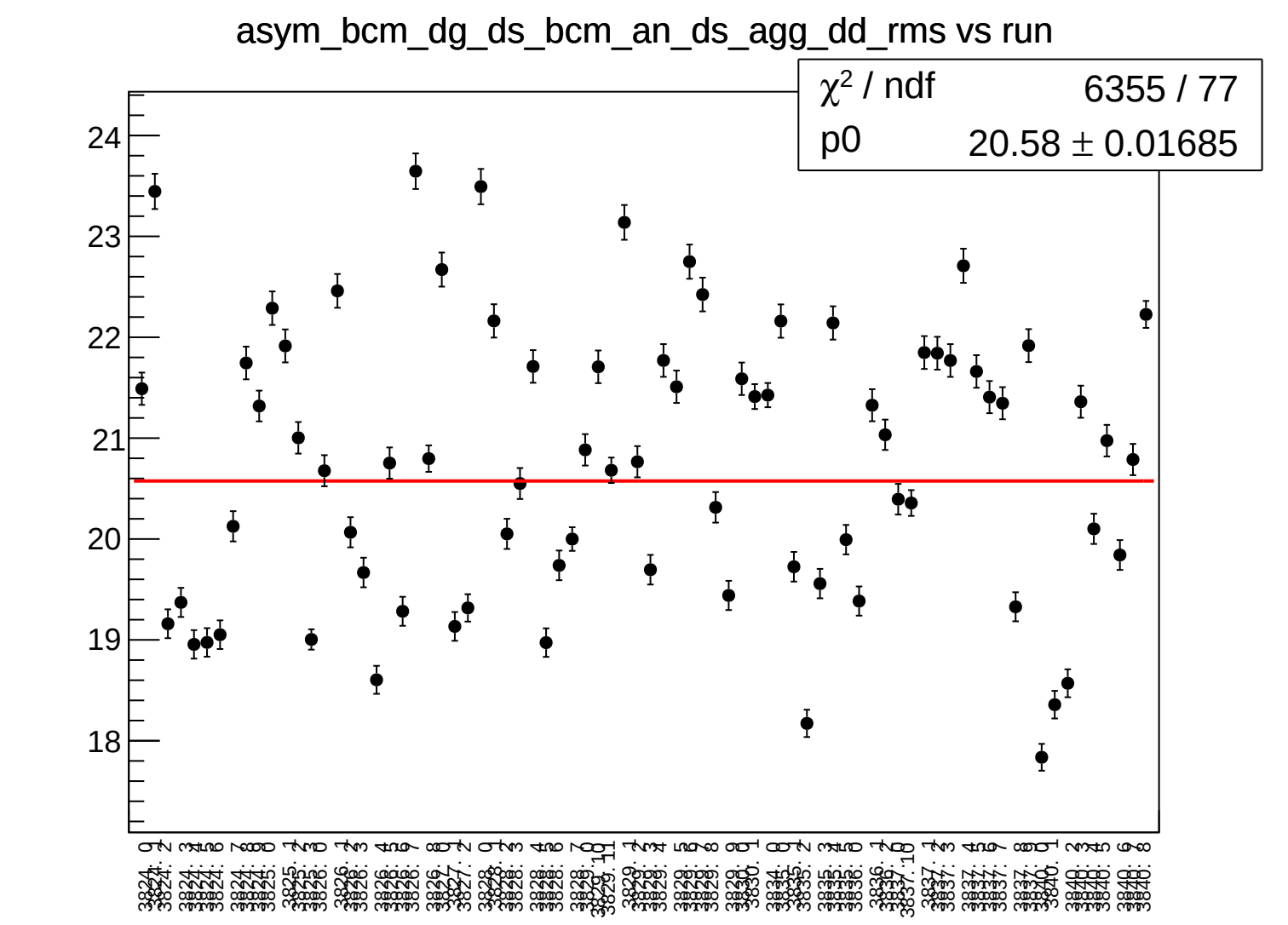

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.657 / 77
p0 29.44 ± 145.4
pull
Entries 78
Mean −30.7
Std Dev 71.95

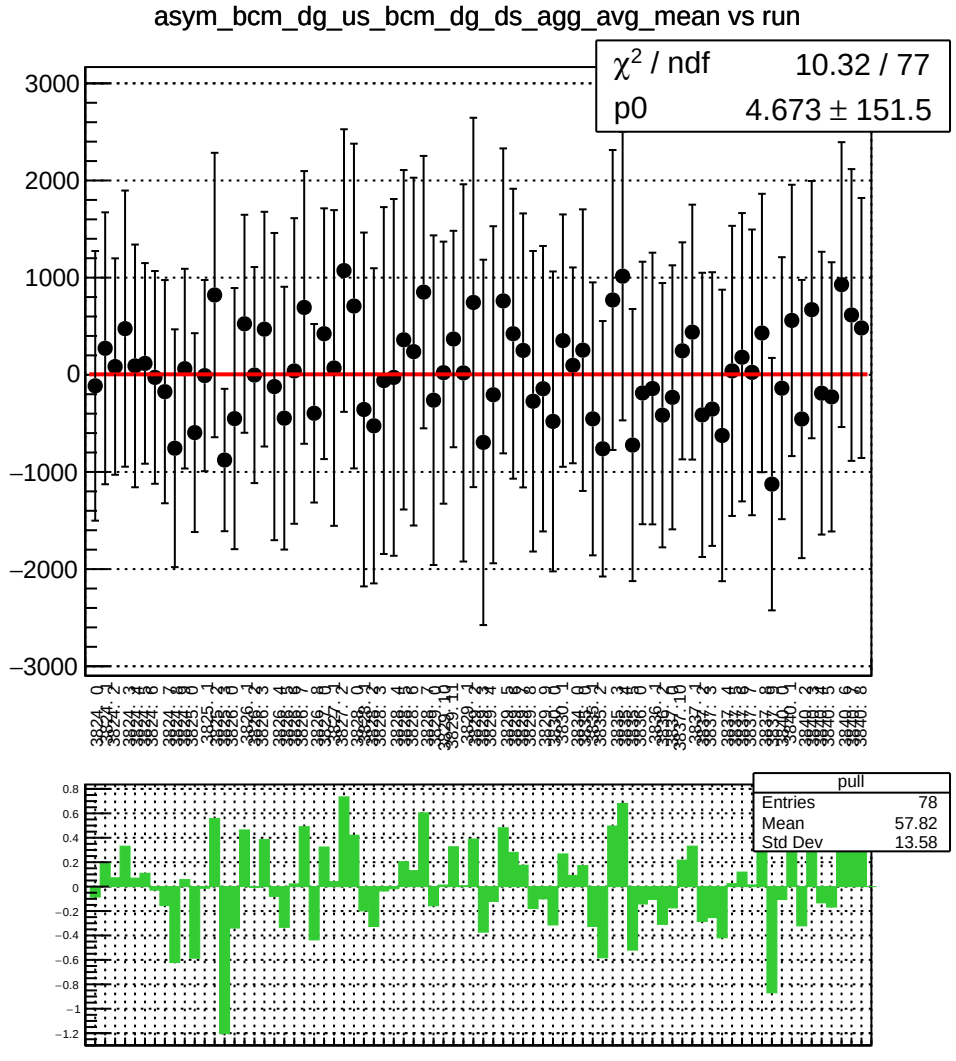

pull1D
Entries 78
Mean 0.004603
Std Dev 0.3133

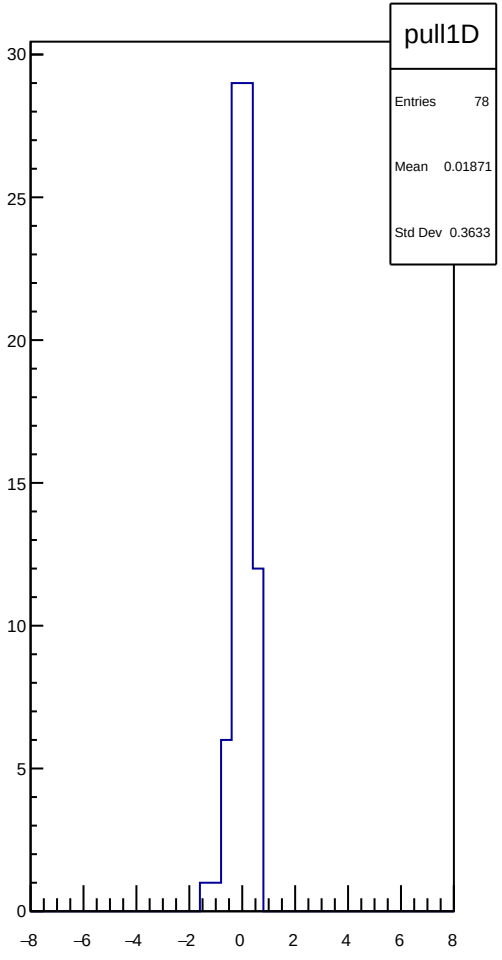

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.08e+04 / 77
p0 124.1 ± 0.1028
180
160
140
120
100
80

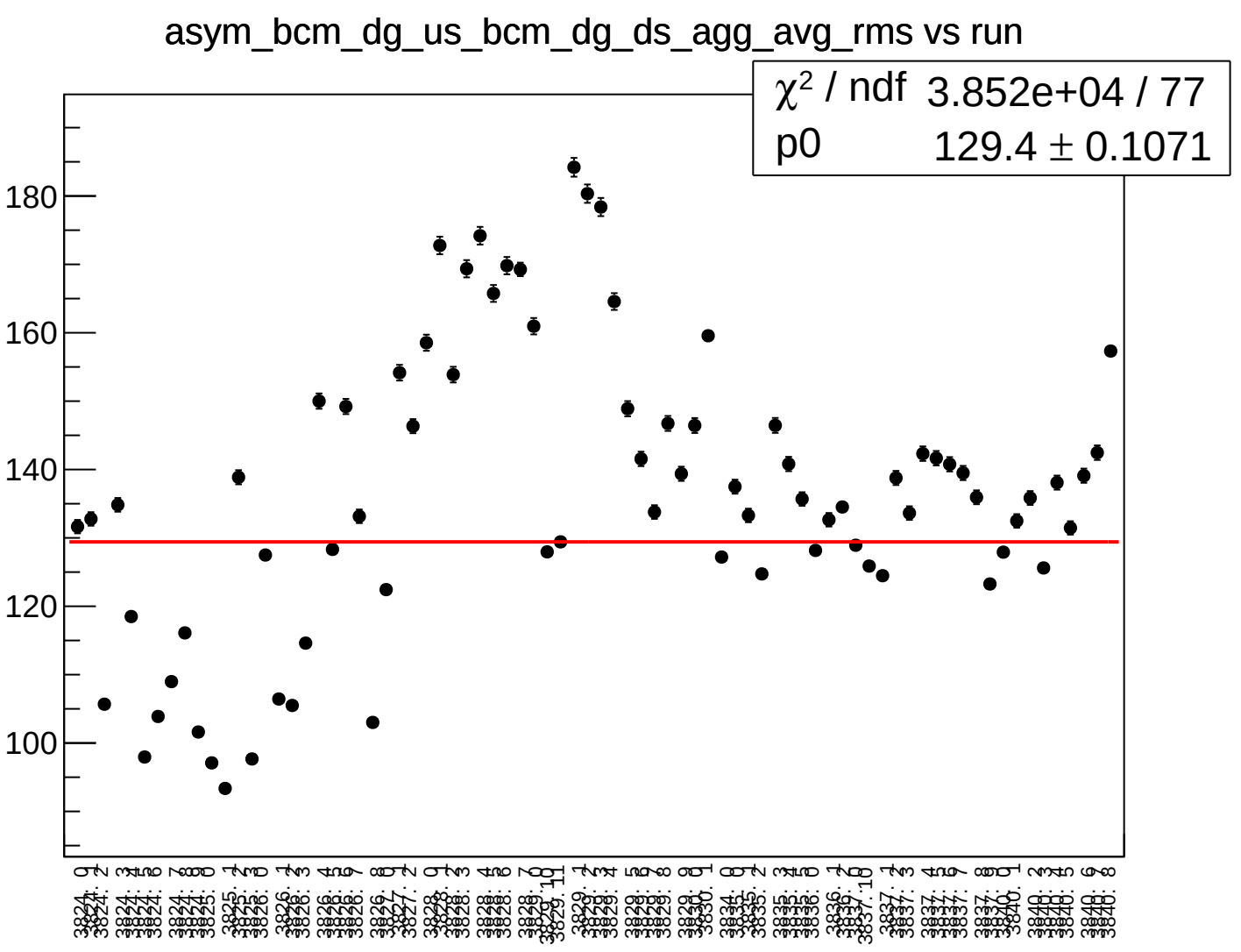

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 69.98 / 77
p0 −0.2537 ± 23.82
pull
Entries 78
Mean −442.8
Std Dev 480.2

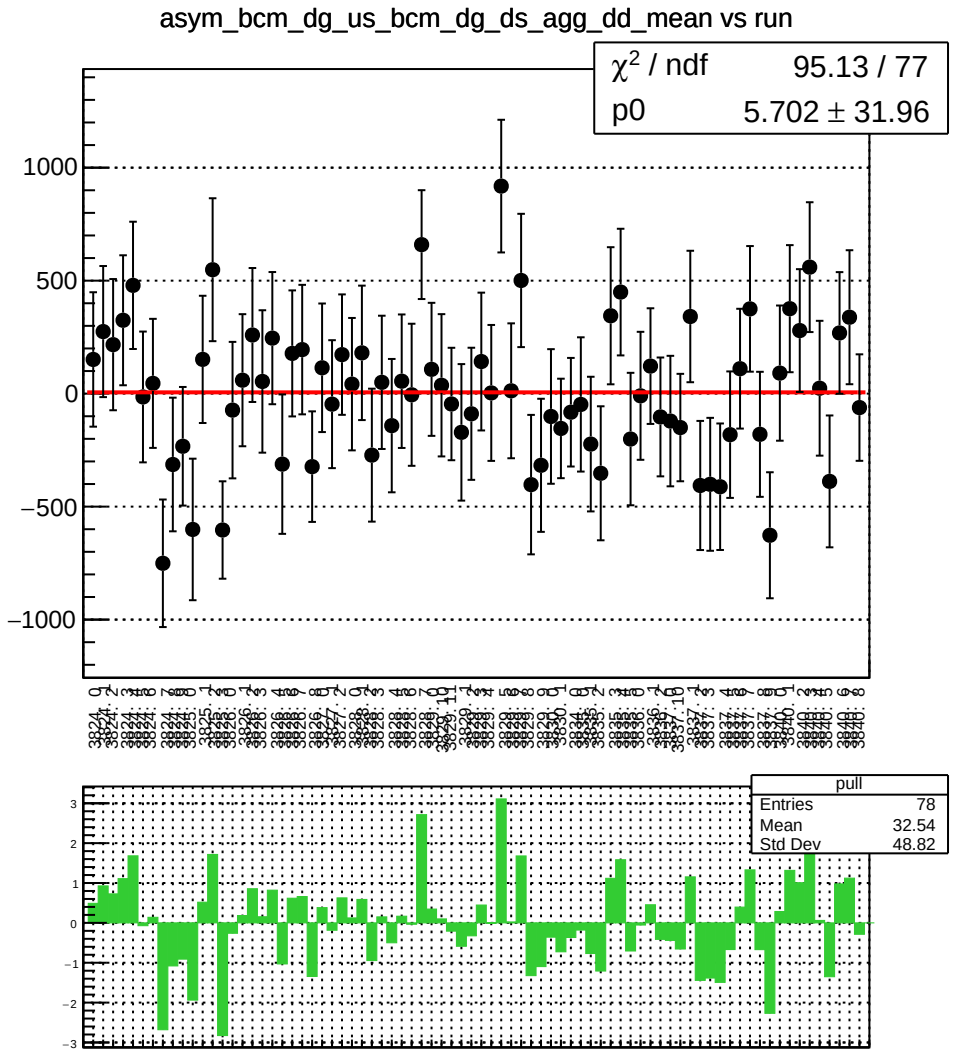

pull1D
Entries 78
Mean −0.006817
Std Dev 0.9472

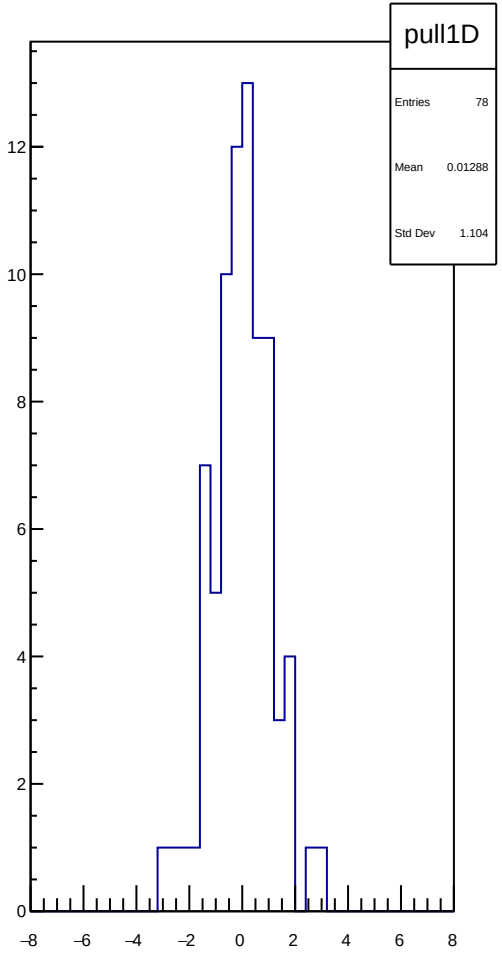

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 6355 / 77
p0 20.58 ± 0.01685
24
23
22
21
20
19
18

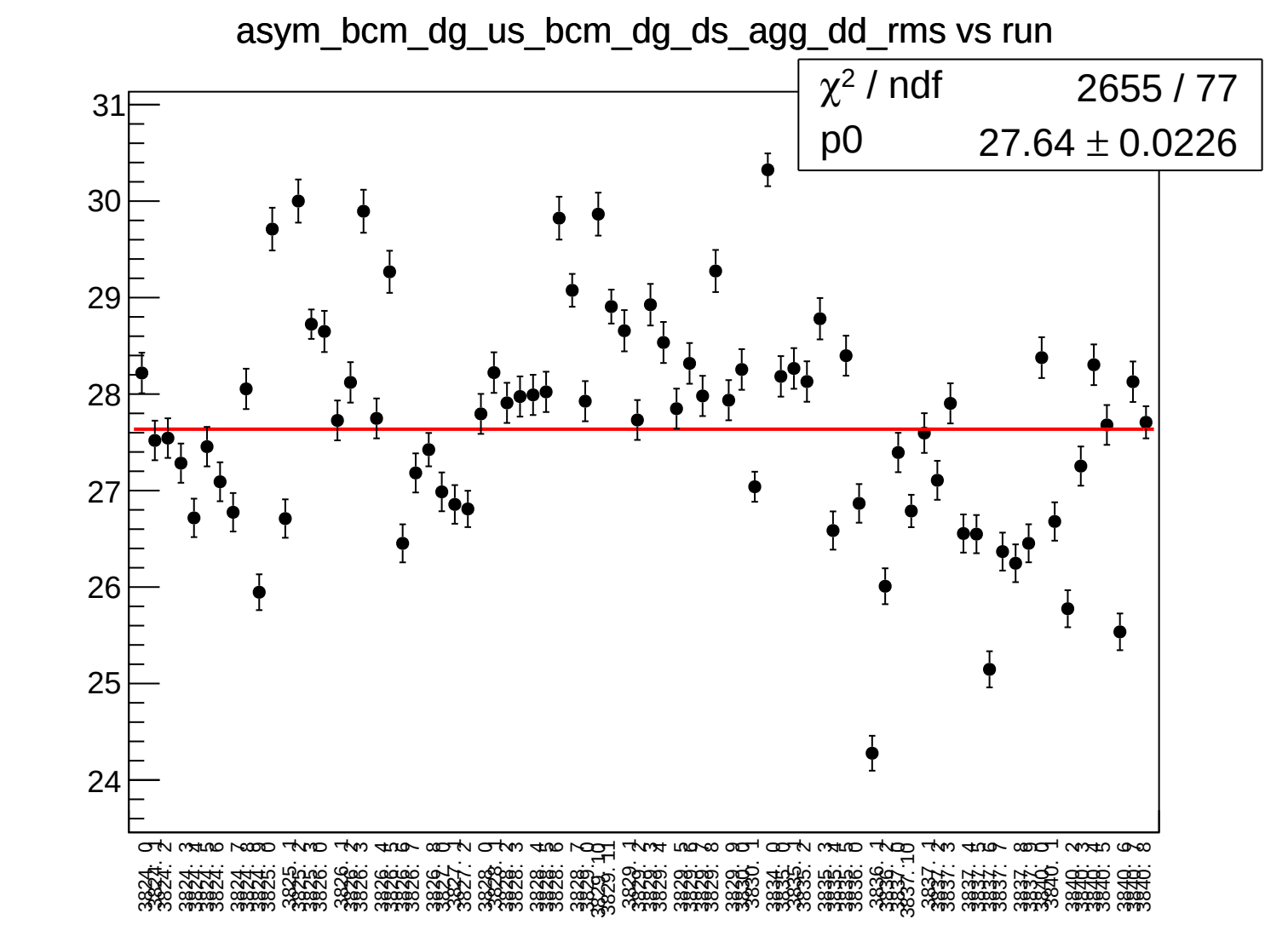

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 10.32 / 77
p0 4.673 ± 151.5
pull
Entries 78
Mean 57.82
Std Dev 13.58

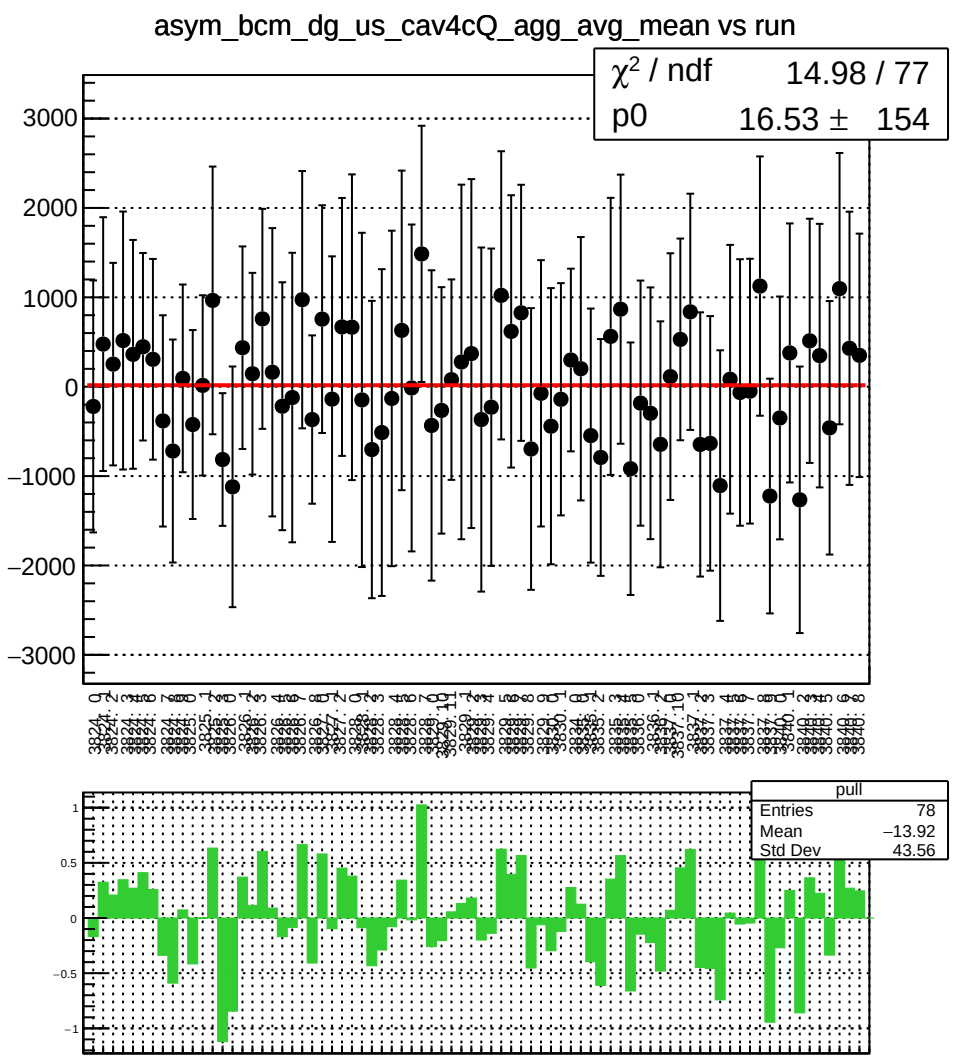

pull1D
Entries 78
Mean 0.01871
Std Dev 0.3633

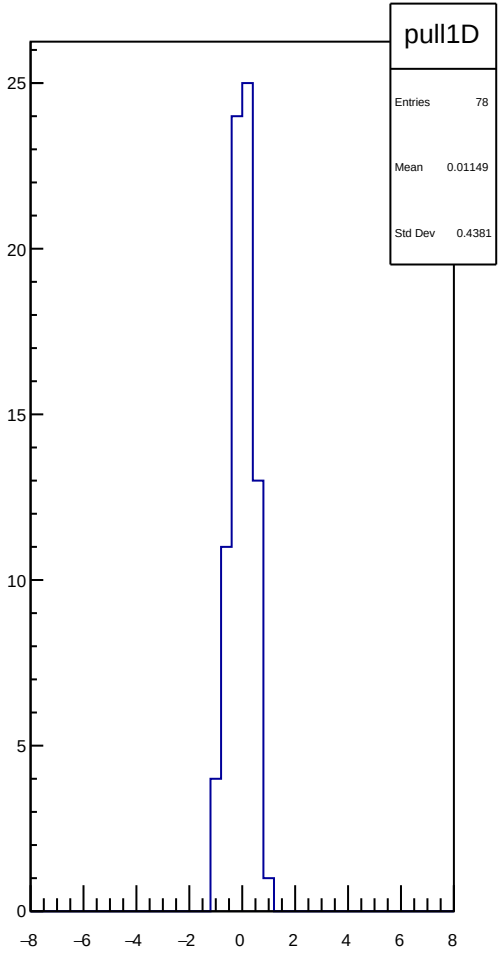

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.852e+04 / 77
p0 129.4 ± 0.1071
180
160
140
120
100

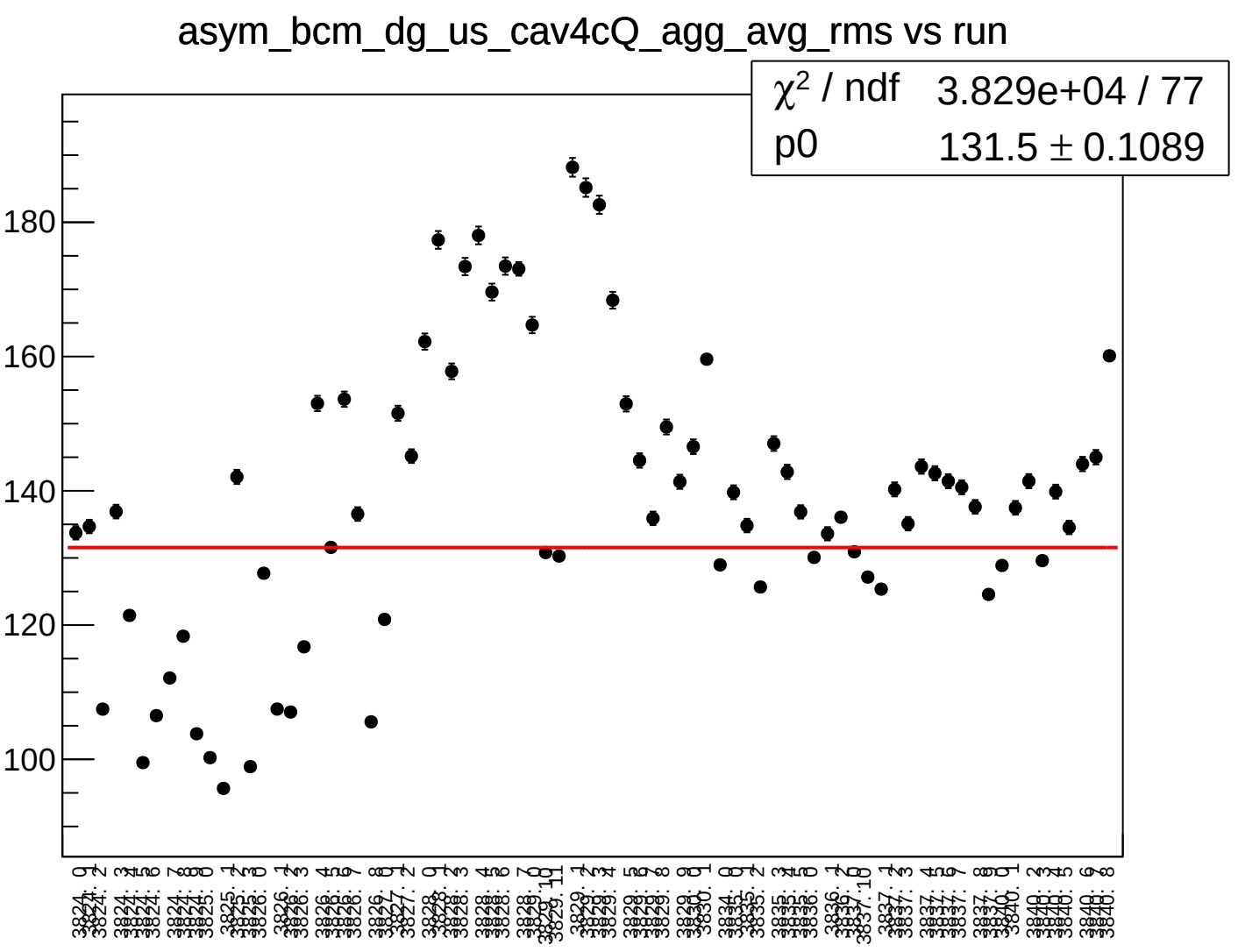

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 95.13 / 77
p0 5.702 ± 31.96
1000
500
0
−500
−1000
pull
Entries 78
Mean 32.54
Std Dev 48.82
3
2
1
0
−1
−2
−3

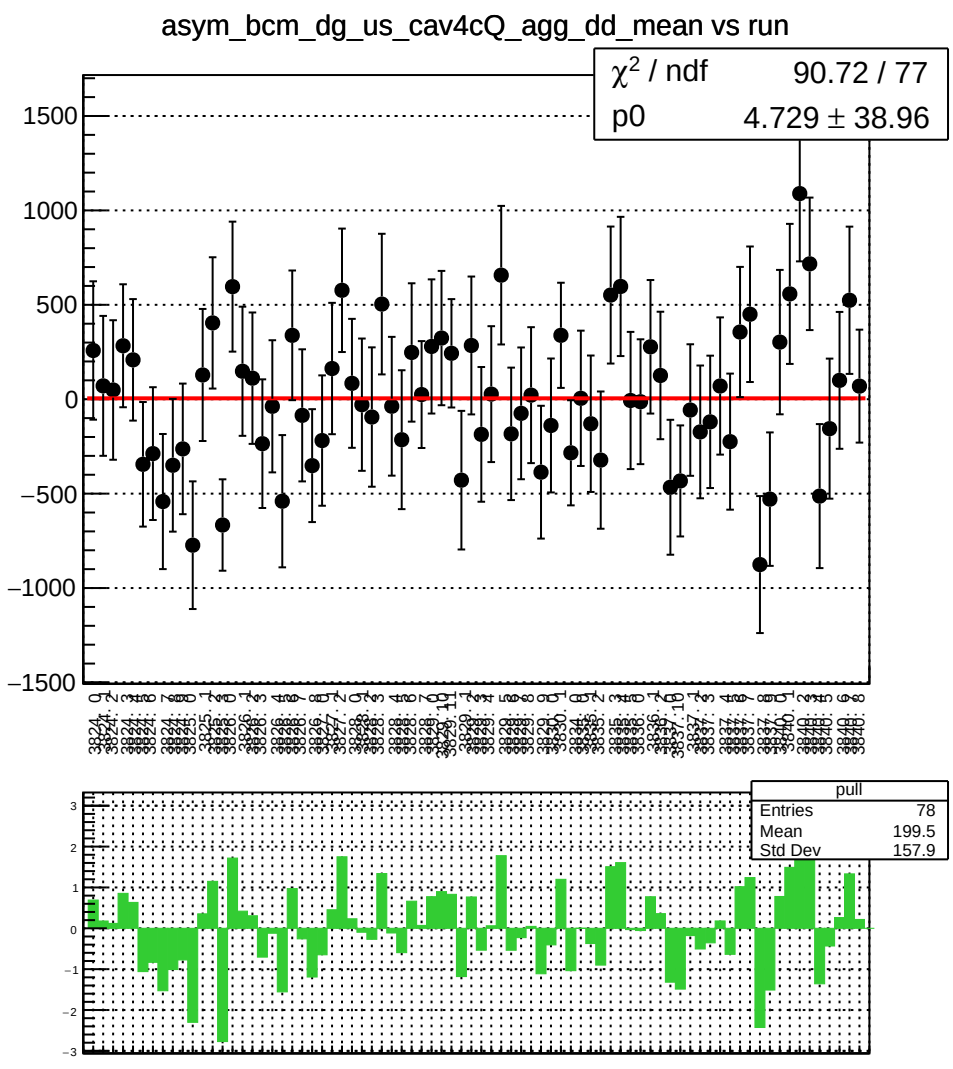

pull1D
Entries 78
Mean 0.01288
Std Dev 1.104
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

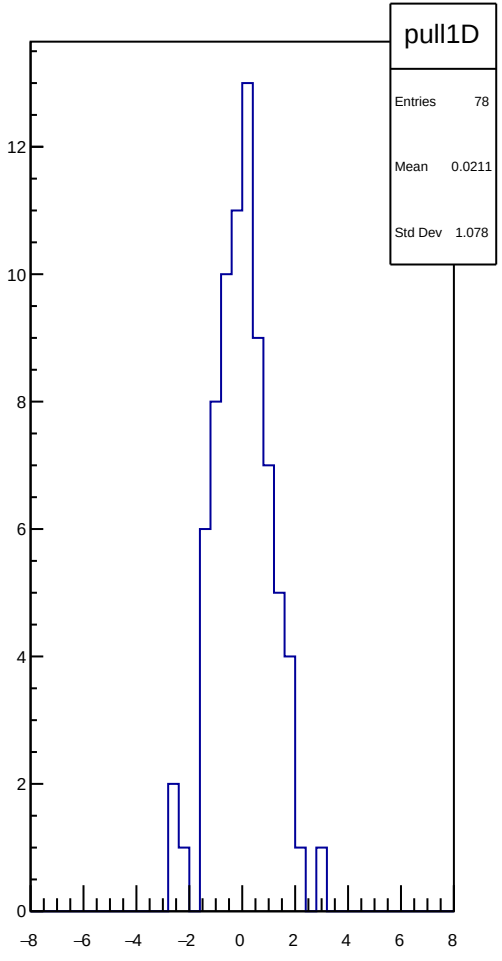

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2655 / 77
p0 27.64 ± 0.0226
31
30
29
28
27
26
25
24

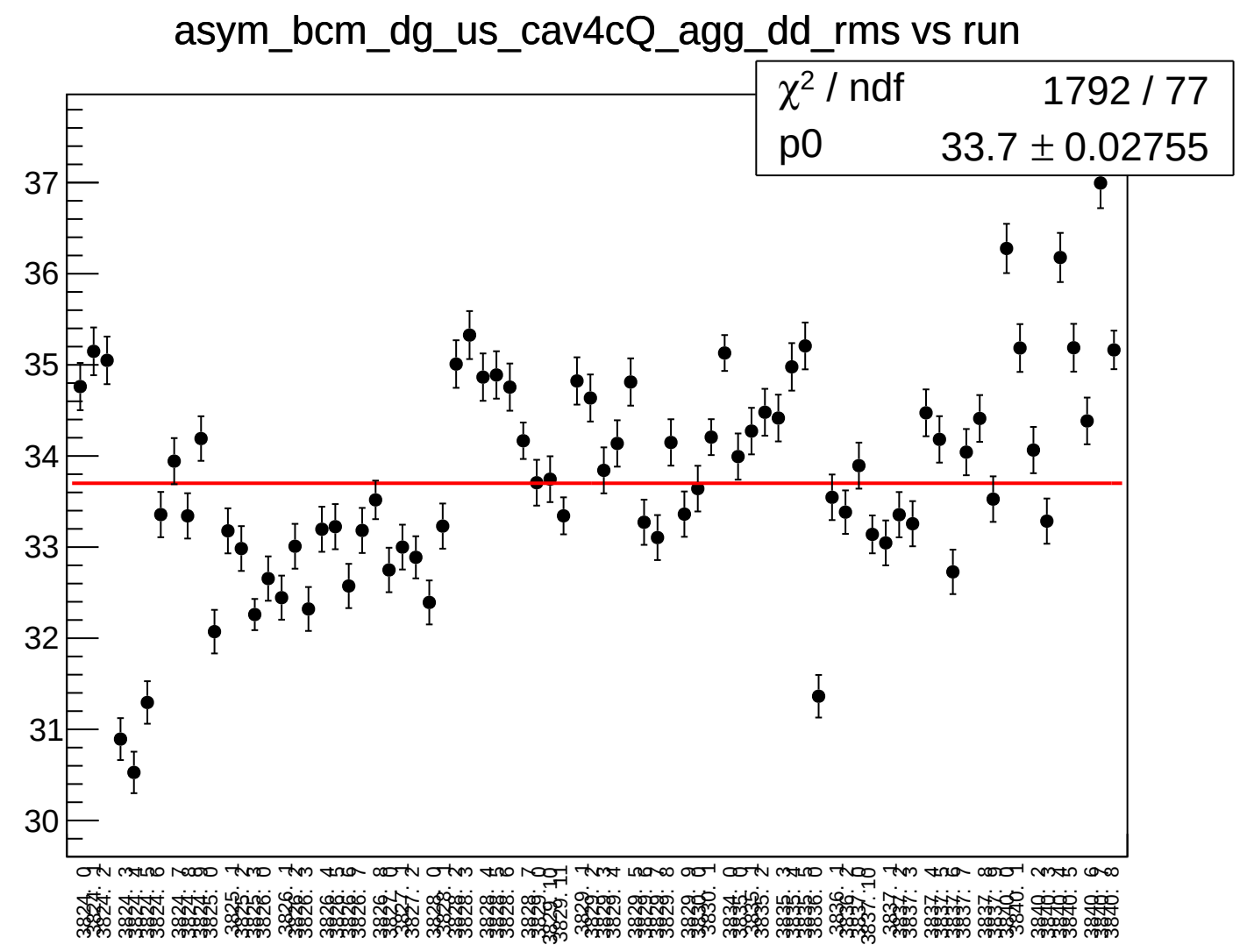

asym_bcm_dg_us_cav4cQ_agg_avg_mean vs run
χ² / ndf 14.98 / 77
p0 16.53 ± 154
pull
Entries 78
Mean −13.92
Std Dev 43.56

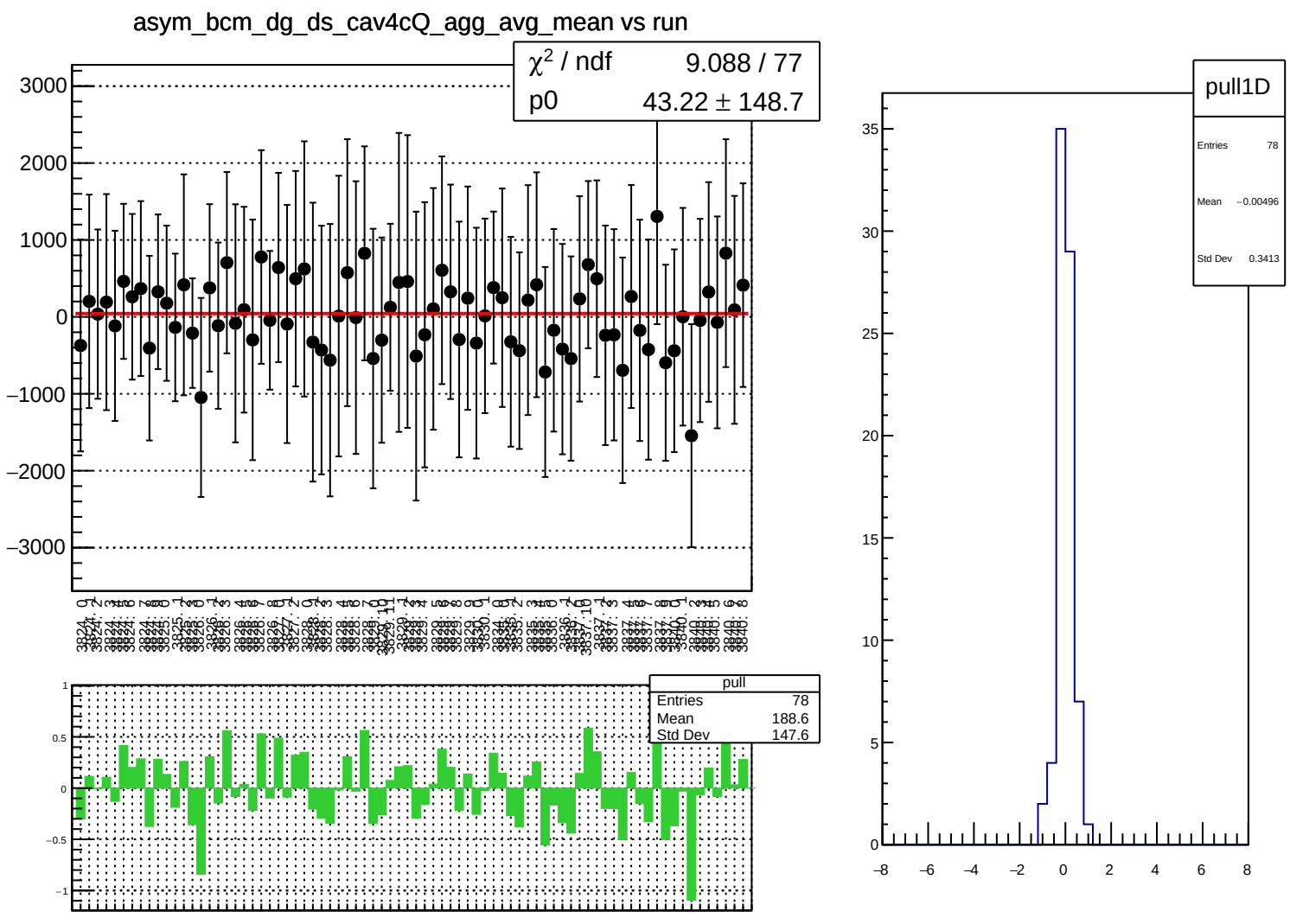

pull1D
Entries 78
Mean 0.01149
Std Dev 0.4381

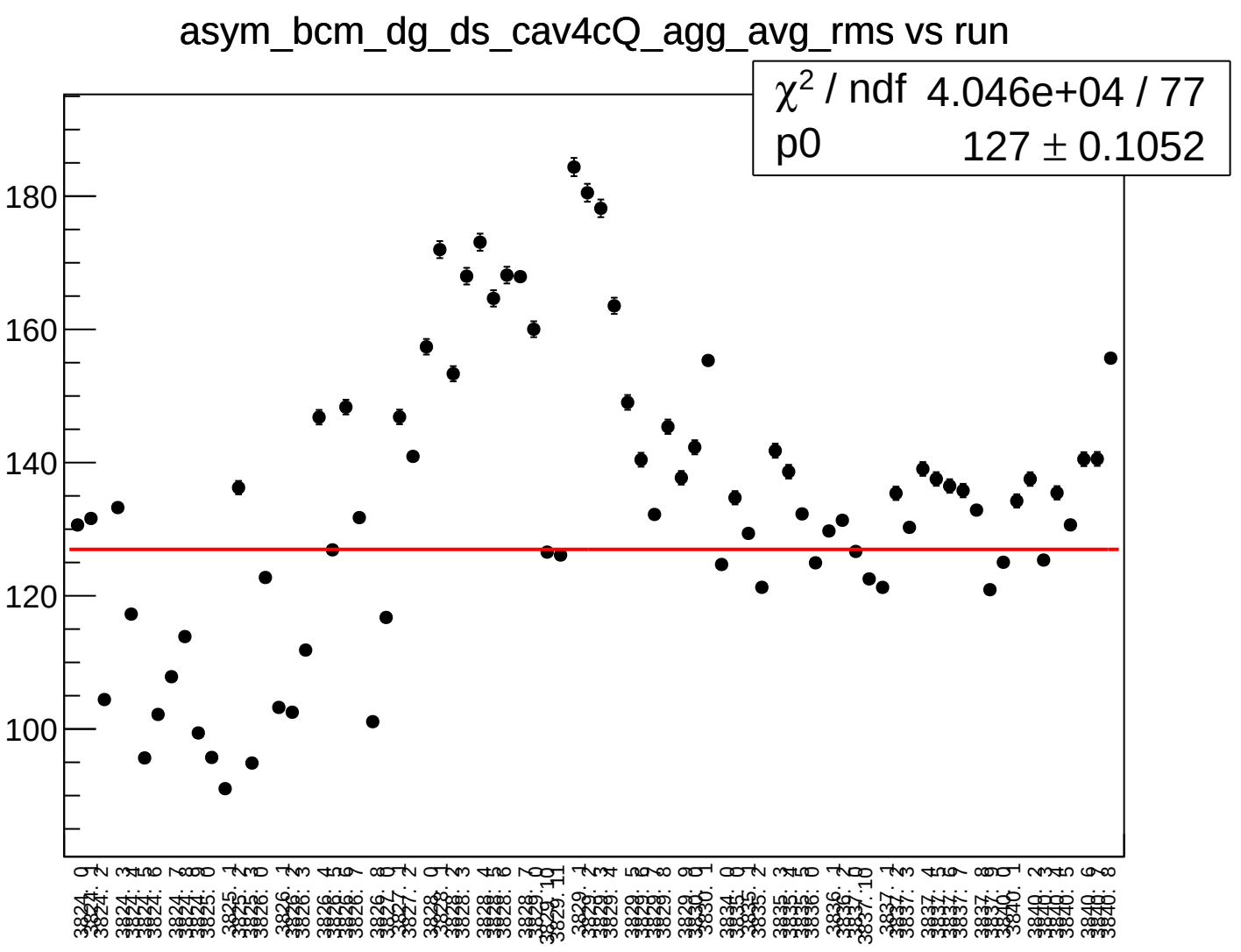

asym_bcm_dg_us_cav4cQ_agg_avg_rms vs run
χ² / ndf 3.829e+04 / 77
p0 131.5 ± 0.1089
180
160
140
120
100

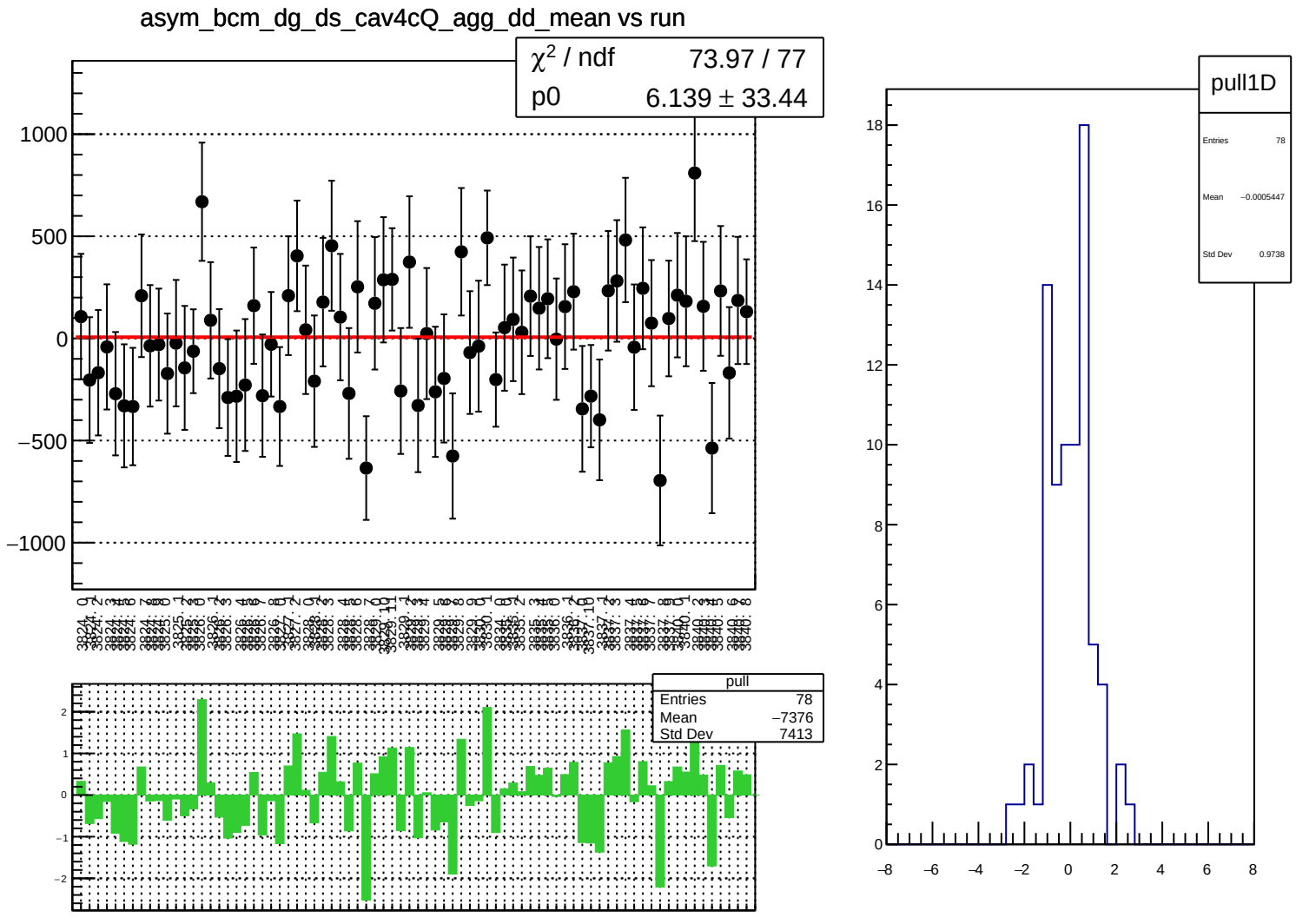

asym_bcm_dg_us_cav4cQ_agg_dd_mean vs run
χ² / ndf 90.72 / 77
p0 4.729 ± 38.96
pull
Entries 78
Mean 199.5
Std Dev 157.9

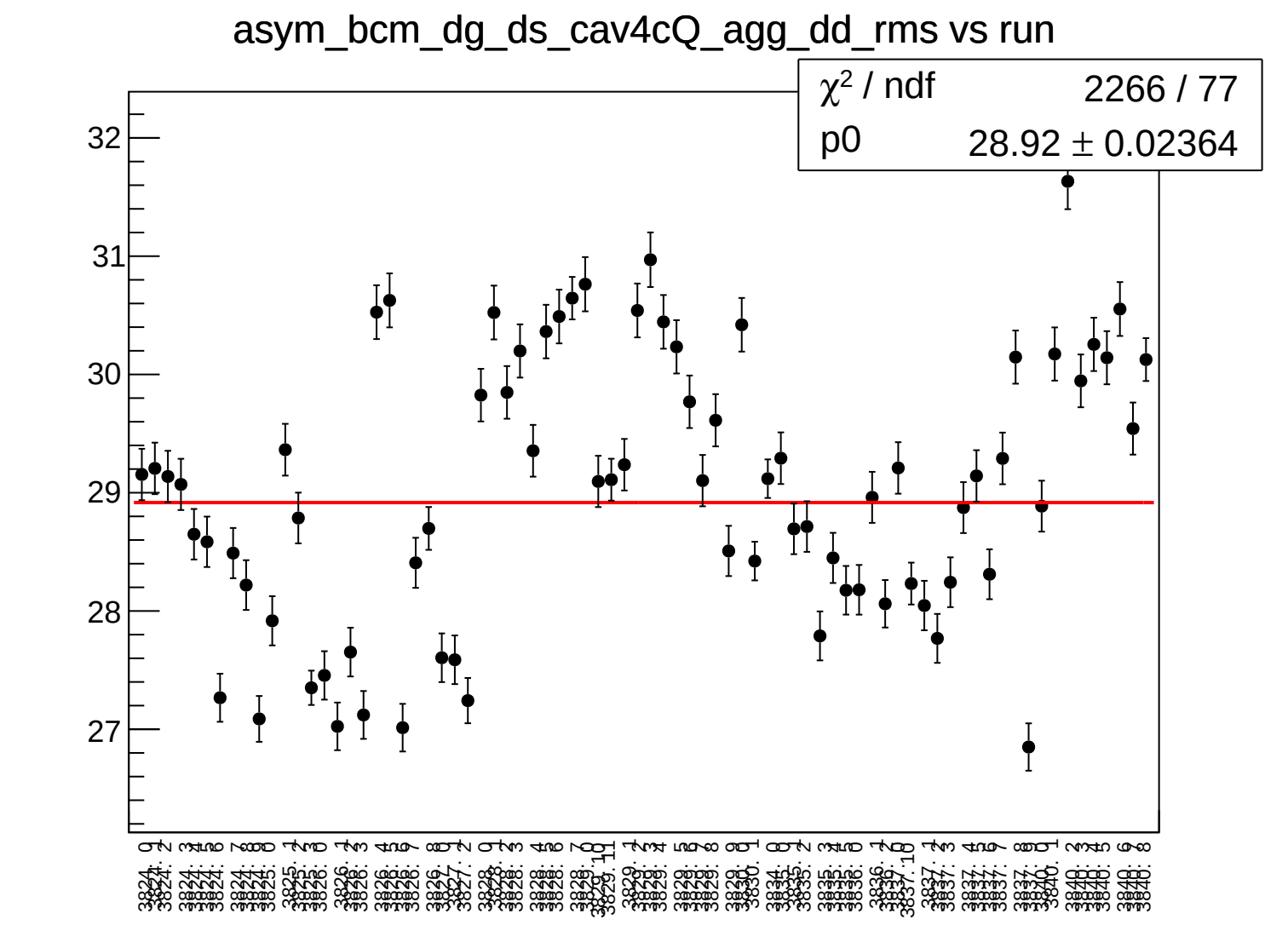

pull1D
Entries 78
Mean 0.0211
Std Dev 1.078

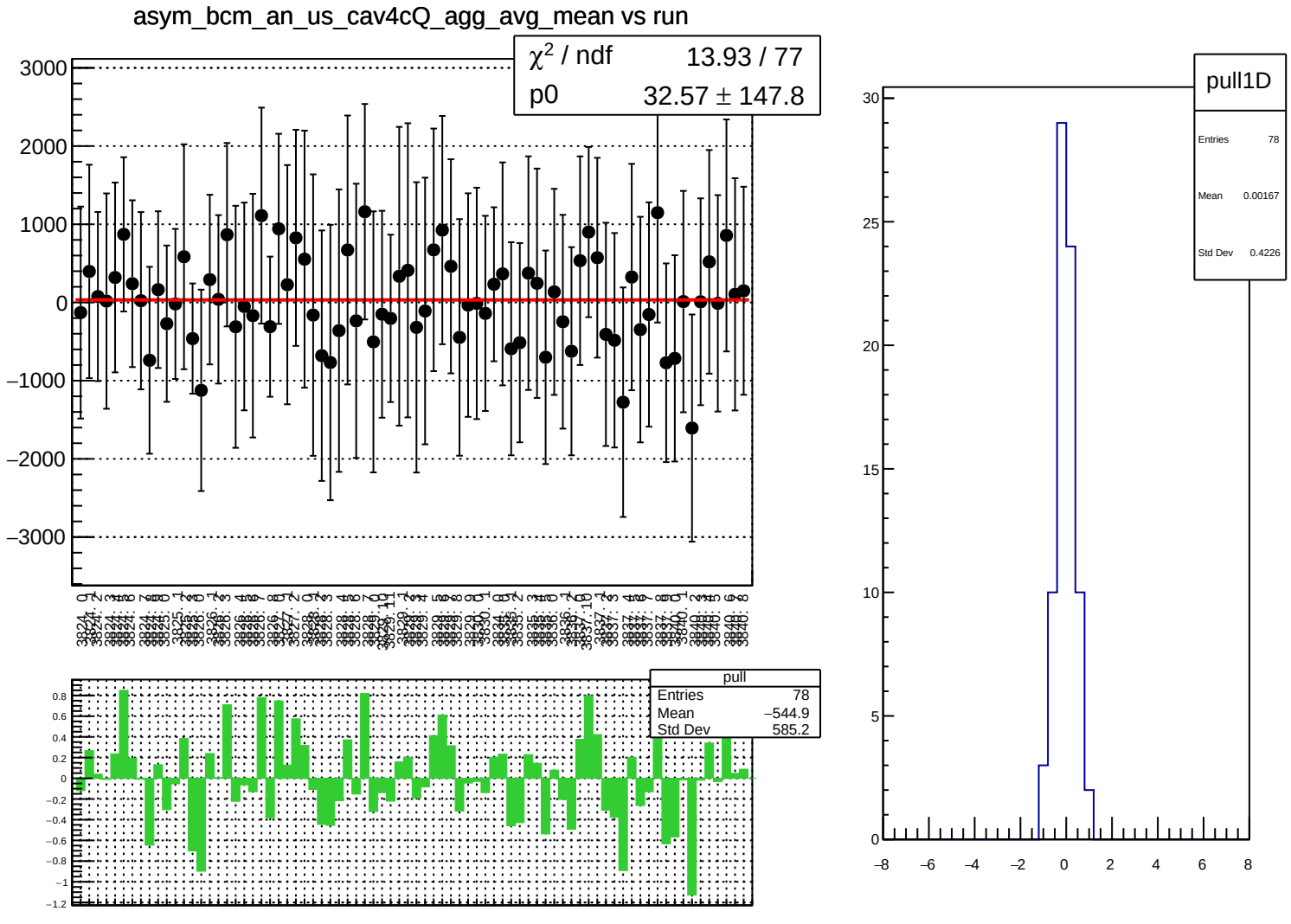

asym_bcm_dg_us_cav4cQ_agg_dd_rms vs run
χ² / ndf 1792 / 77
p0 33.7 ± 0.02755
37
36
35
34
33
32
31
30

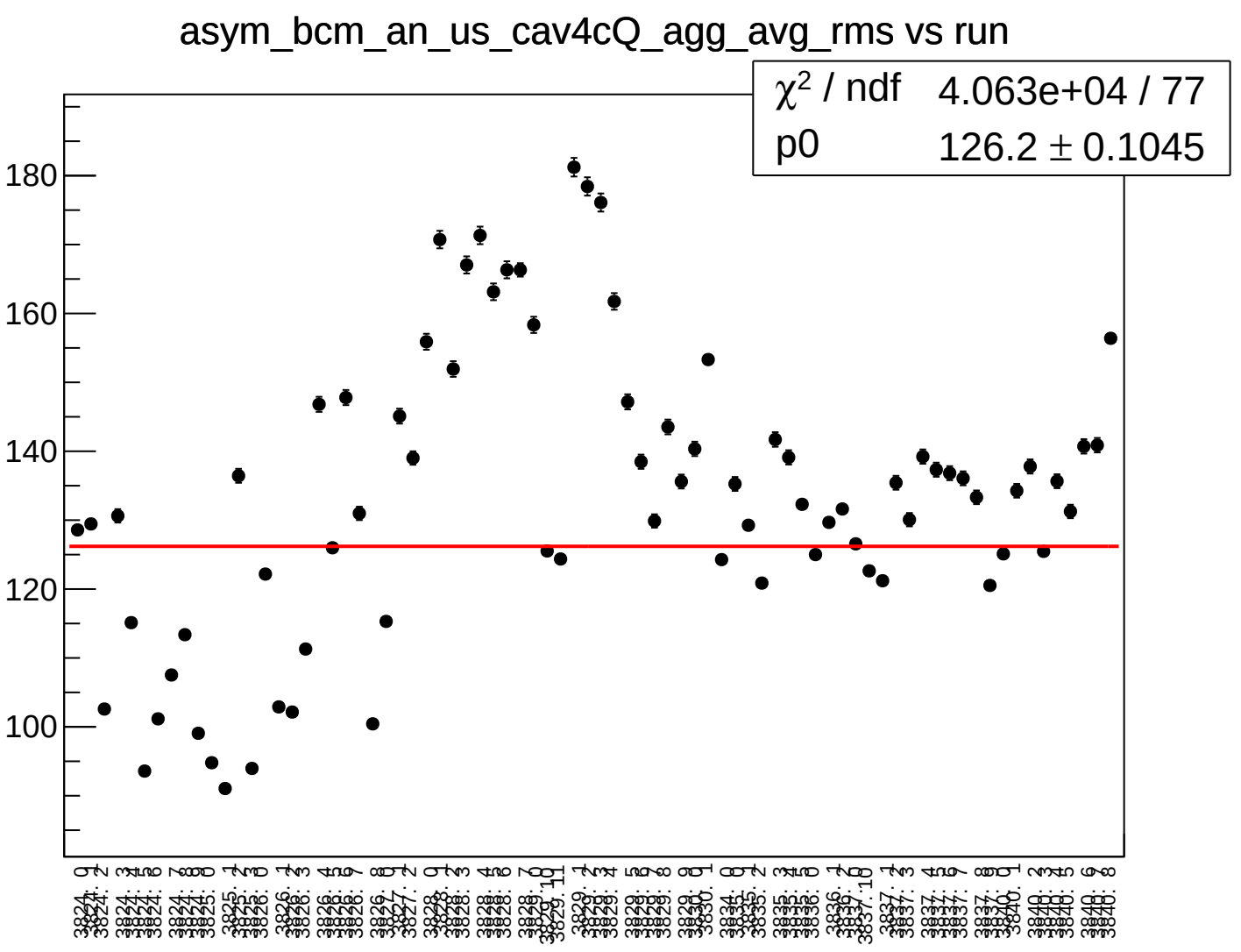

asym_bcm_dg_ds_cav4cQ_agg_avg_mean vs run
χ² / ndf 9.088 / 77
p0 43.22 ± 148.7
pull
Entries 78
Mean 188.6
Std Dev 147.6
pull1D
Entries 78
Mean −0.00496
Std Dev 0.3413

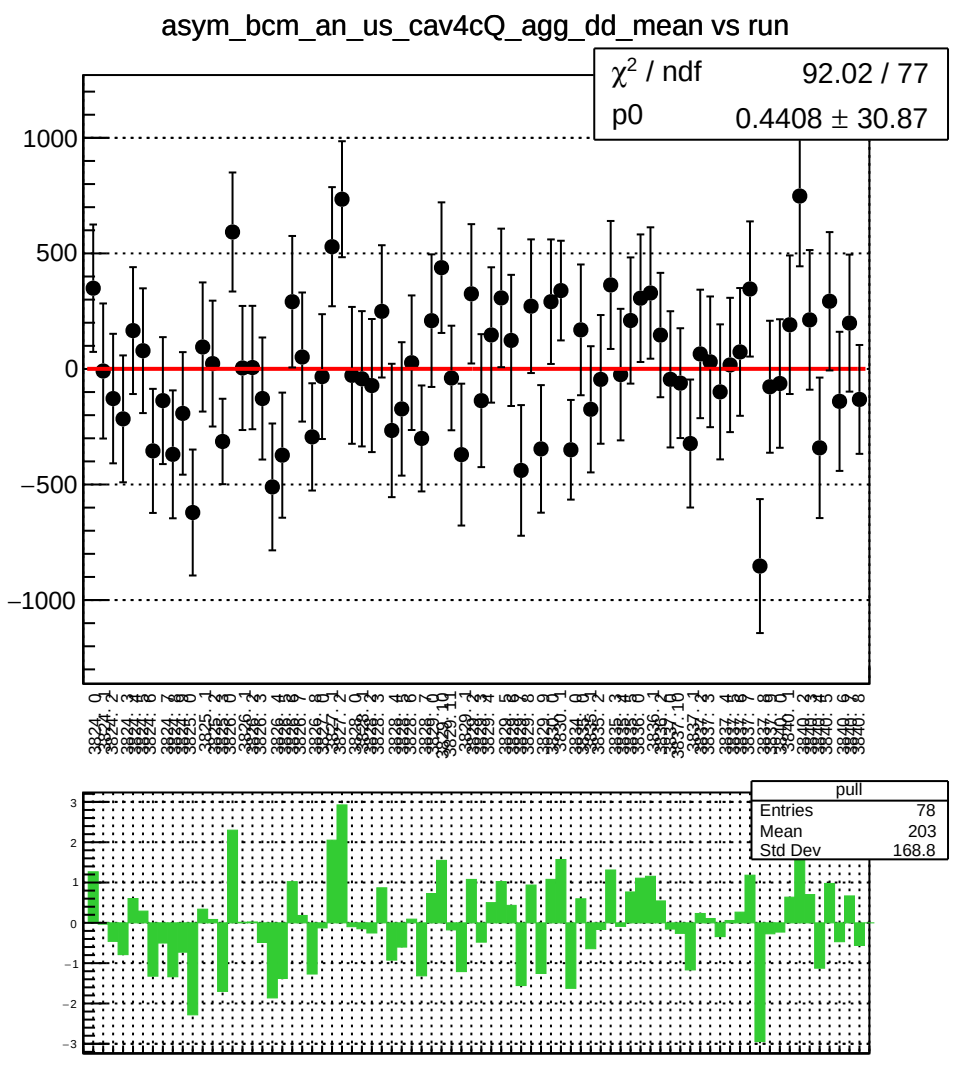

asym_bcm_dg_ds_cav4cQ_agg_avg_rms vs run
χ² / ndf 4.046e+04 / 77
p0 127 ± 0.1052
180
160
140
120
100

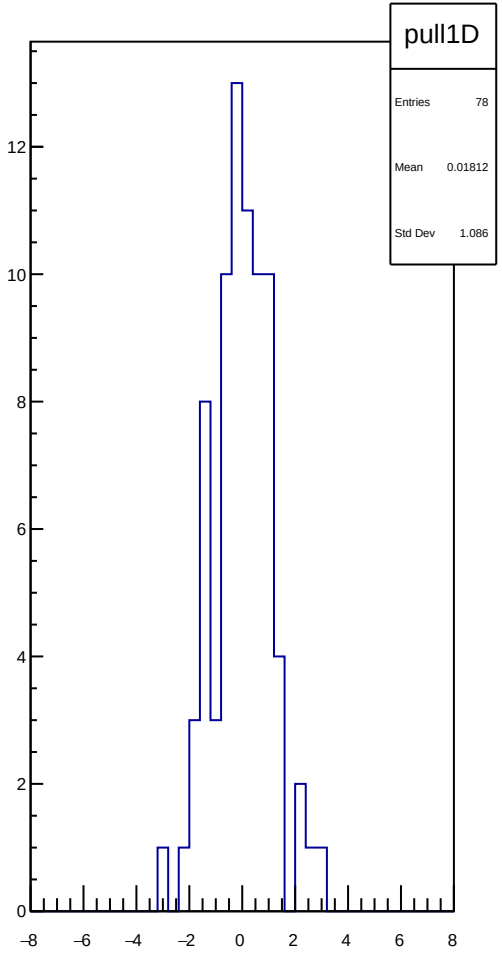

asym_bcm_dg_ds_cav4cQ_agg_dd_mean vs run
χ² / ndf 73.97 / 77
p0 6.139 ± 33.44
1000
500
0
−500
−1000
pull
Entries 78
Mean −7376
Std Dev 7413
2
1
0
−1
−2
pull1D
Entries 78
Mean −0.0005447
Std Dev 0.9738
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

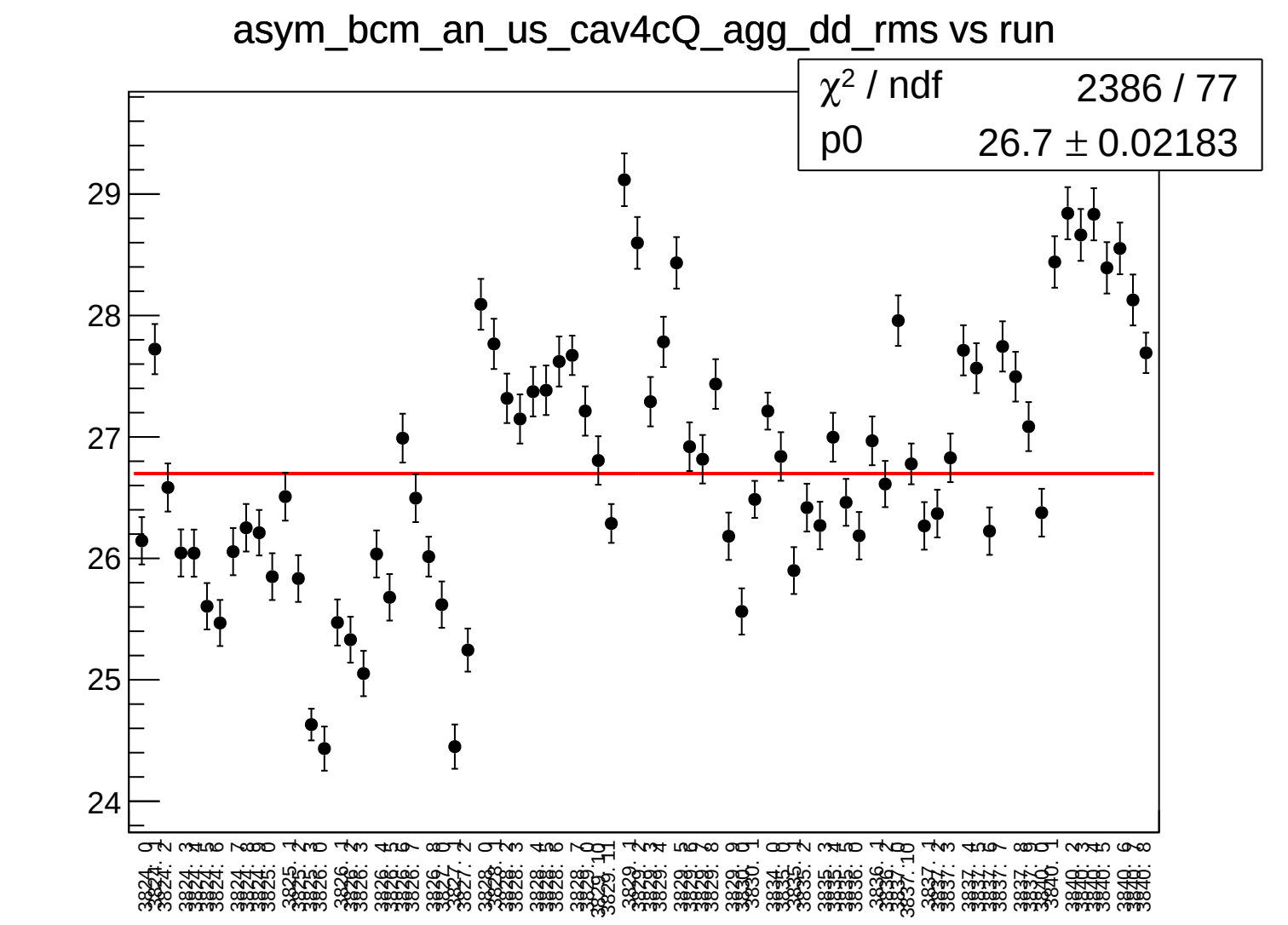

asym_bcm_dg_ds_cav4cQ_agg_dd_rms vs run
χ² / ndf 2266 / 77
p0 28.92 ± 0.02364
32
31
30
29
28
27

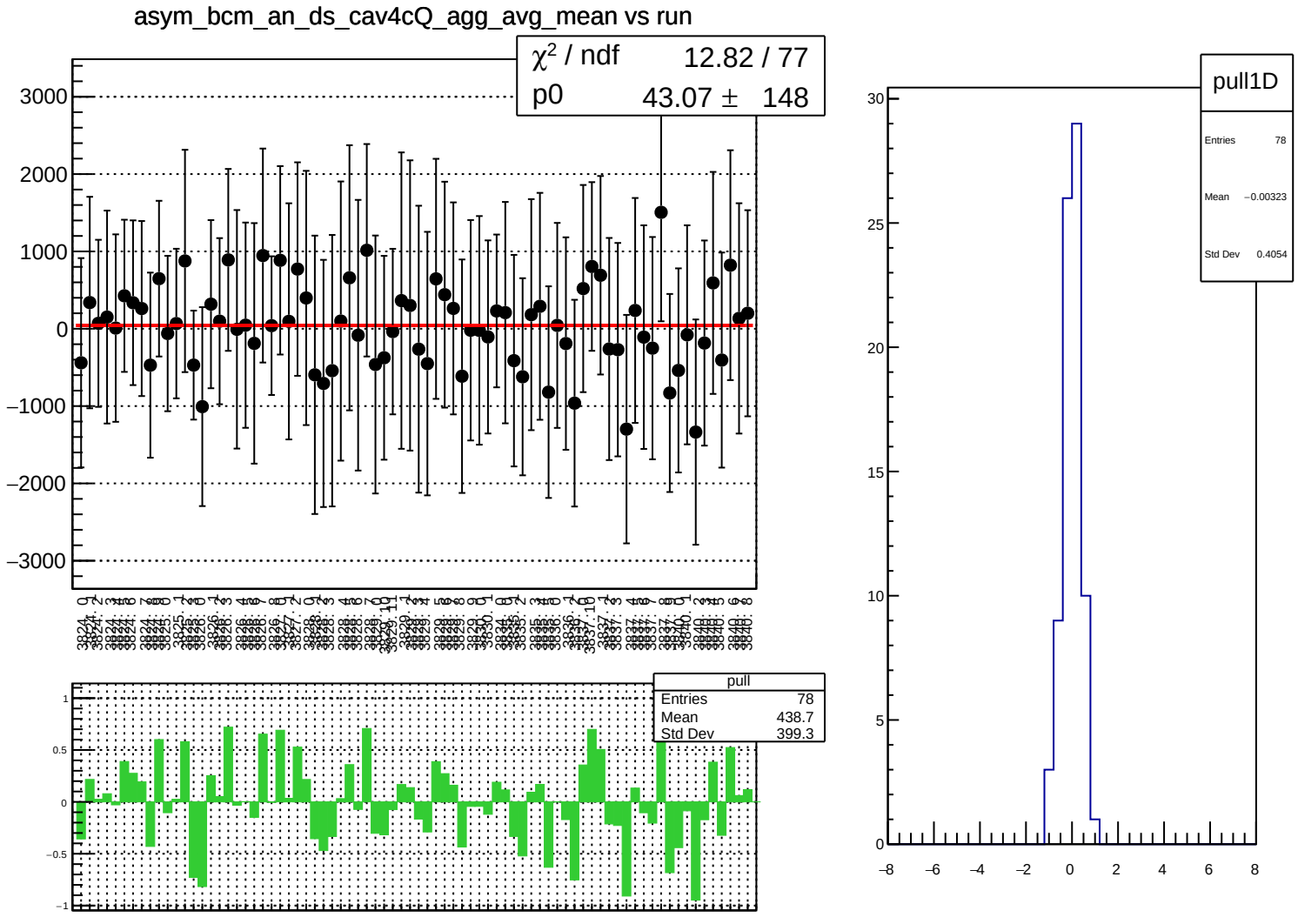

asym_bcm_an_us_cav4cQ_agg_avg_mean vs run
χ² / ndf 13.93 / 77
p0 32.57 ± 147.8
pull
Entries 78
Mean −544.9
Std Dev 585.2
pull1D
Entries 78
Mean 0.00167
Std Dev 0.4226

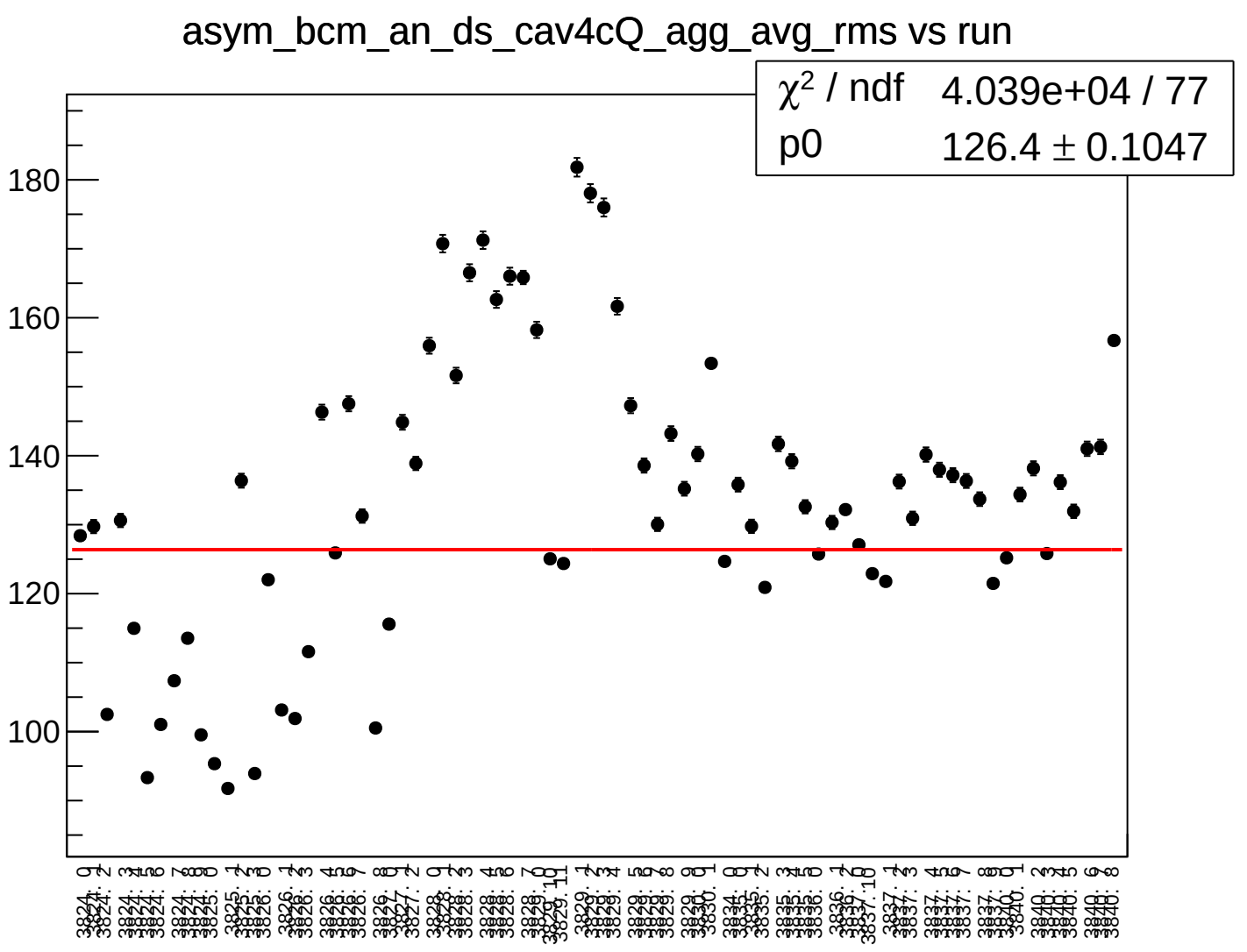

asym_bcm_an_us_cav4cQ_agg_avg_rms vs run
χ² / ndf 4.063e+04 / 77
p0 126.2 ± 0.1045
180
160
140
120
100

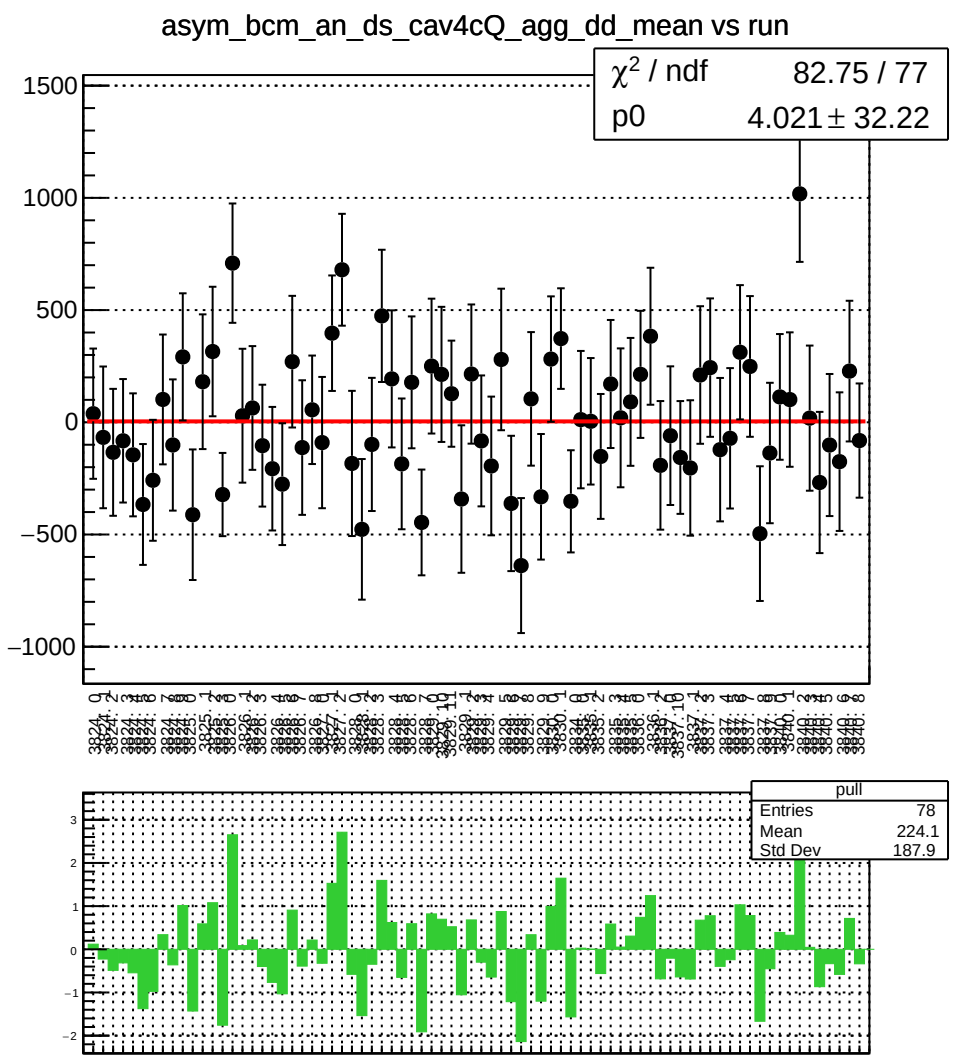

asym_bcm_an_us_cav4cQ_agg_dd_mean vs run
χ² / ndf 92.02 / 77
p0 0.4408 ± 30.87
1000
500
0
−500
−1000
pull
Entries 78
Mean 203
Std Dev 168.8
3
2
1
0
−1
−2
−3

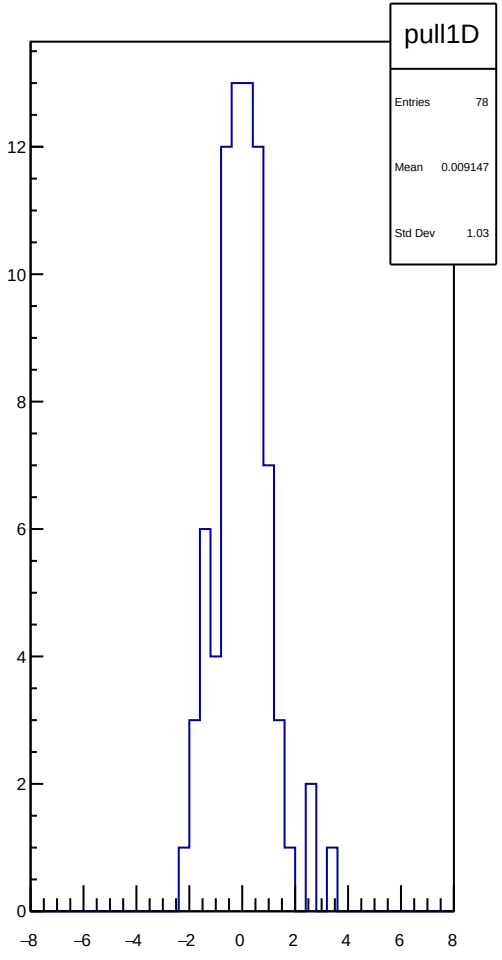

pull1D
Entries 78
Mean 0.01812
Std Dev 1.086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

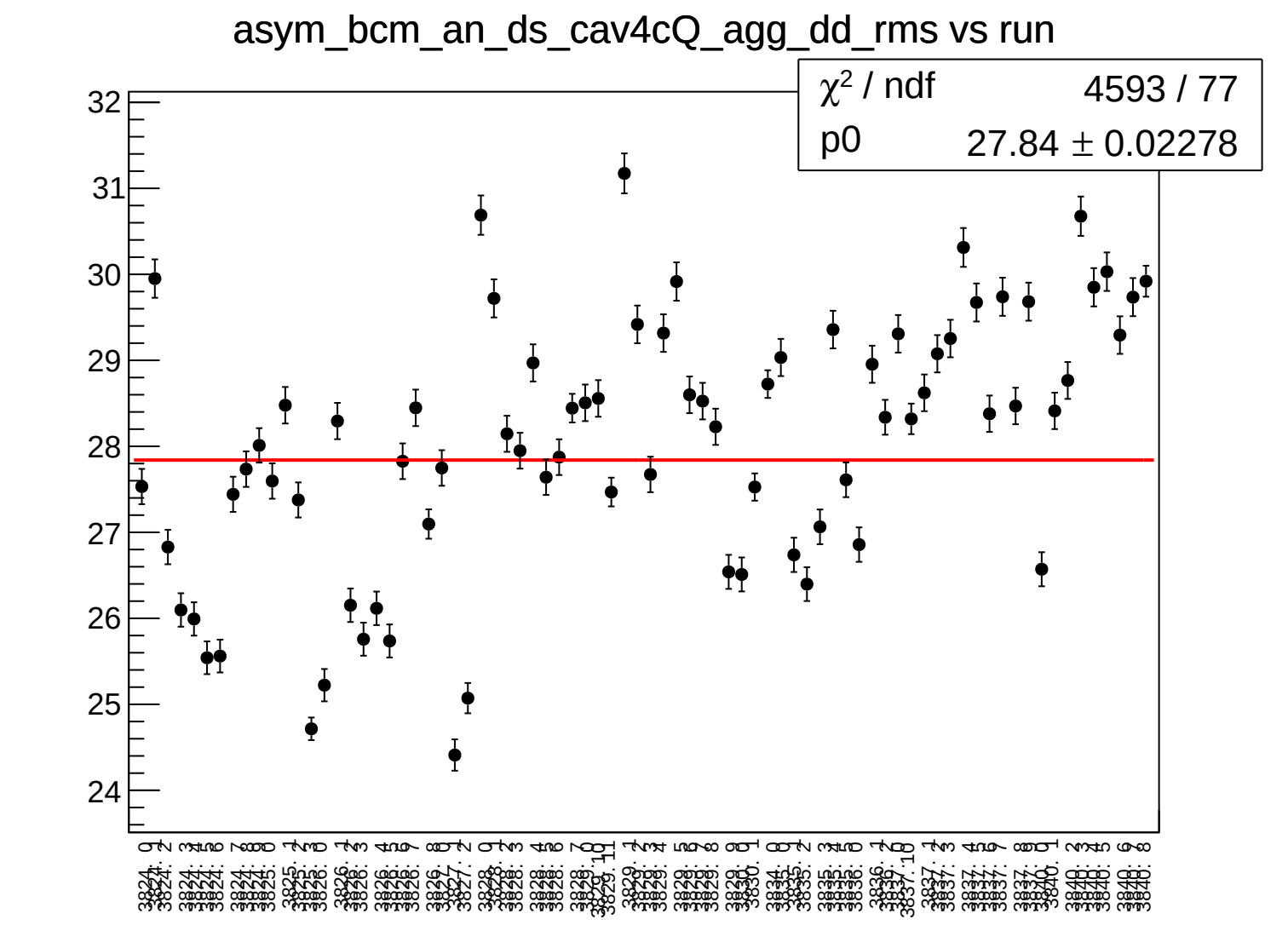

asym_bcm_an_us_cav4cQ_agg_dd_rms vs run
χ² / ndf 2386 / 77
p0 26.7 ± 0.02183
29
28
27
26
25
24

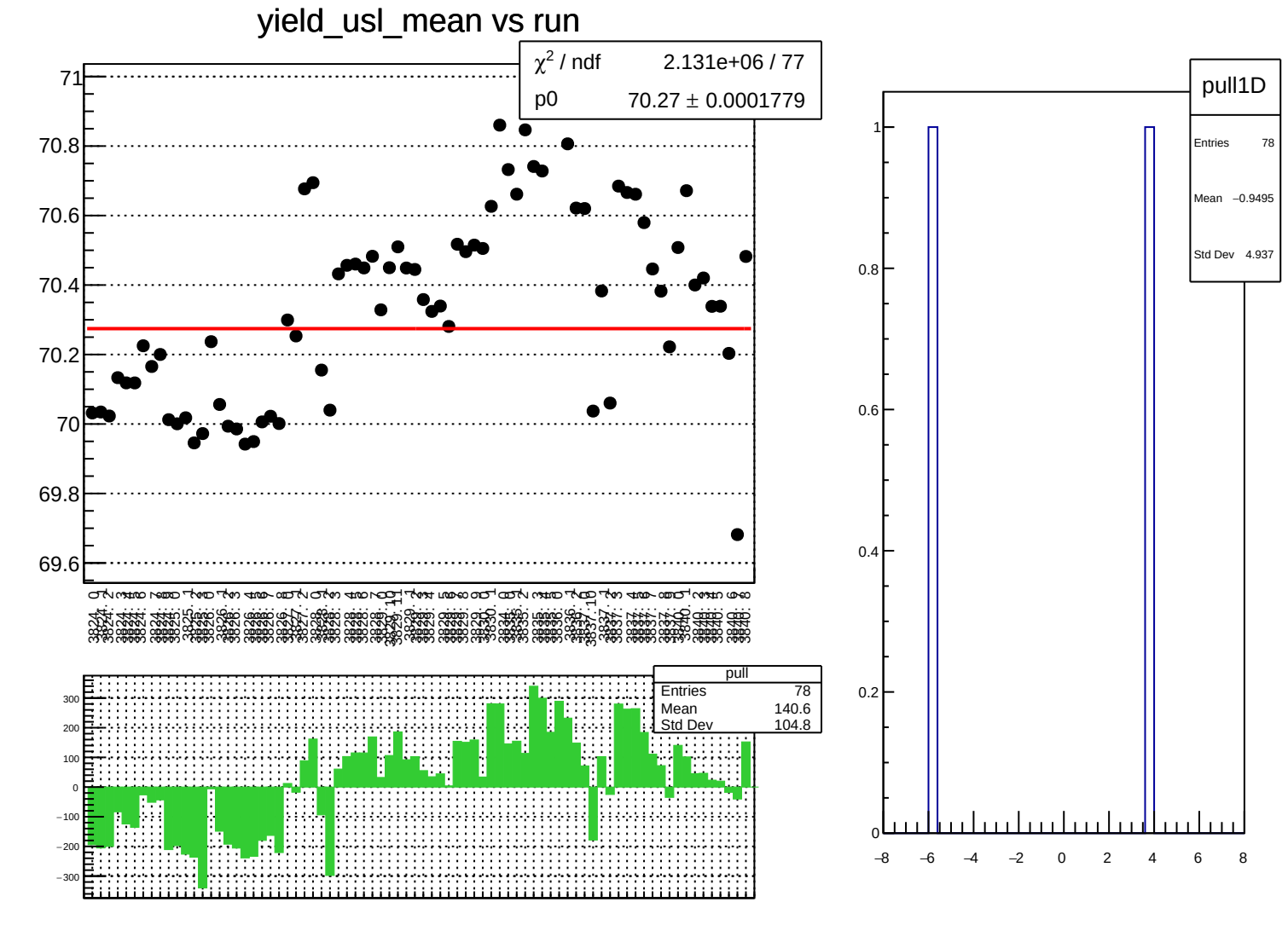

asym_bcm_an_ds_cav4cQ_agg_avg_mean vs run
χ² / ndf 12.82 / 77
p0 43.07 ± 148
pull
Entries 78
Mean 438.7
Std Dev 399.3
pull1D
Entries 78
Mean −0.00323
Std Dev 0.4054

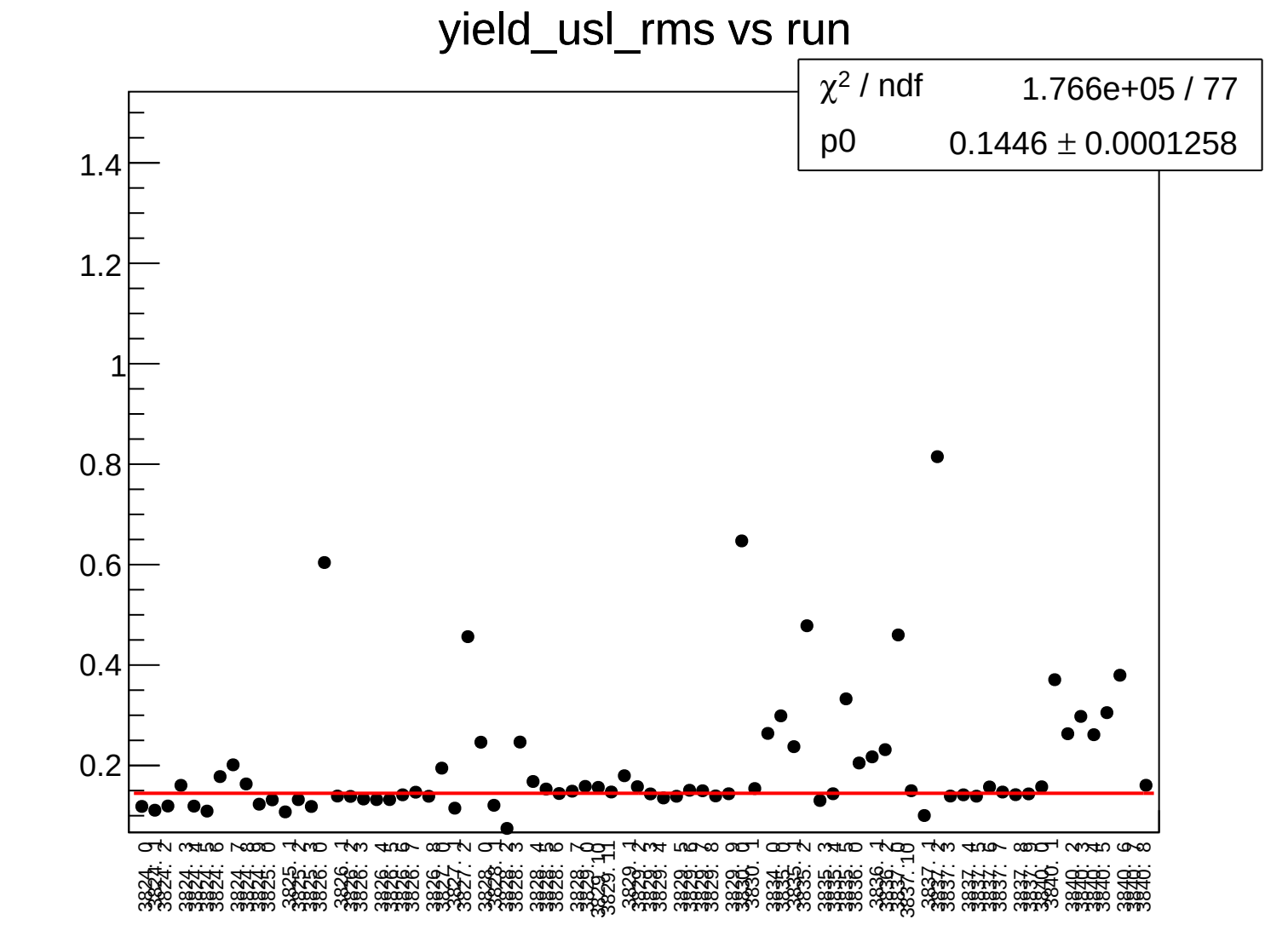

asym_bcm_an_ds_cav4cQ_agg_avg_rms vs run
χ² / ndf 4.039e+04 / 77
p0 126.4 ± 0.1047
180
160
140
120
100

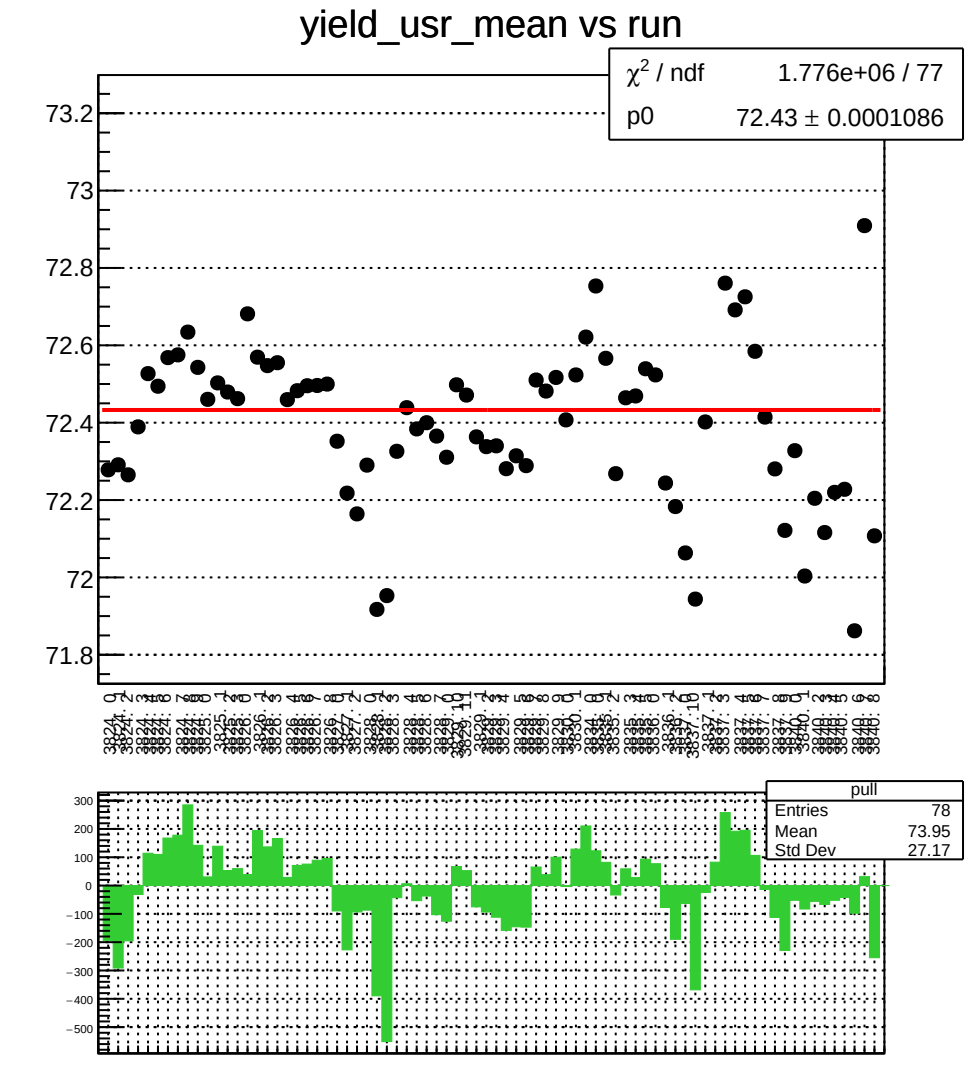

asym_bcm_an_ds_cav4cQ_agg_dd_mean vs run
χ² / ndf 82.75 / 77
p0 4.021 ± 32.22
1500
1000
500
0
−500
−1000
pull
Entries 78
Mean 224.1
Std Dev 187.9
3
2
1
0
−1
−2

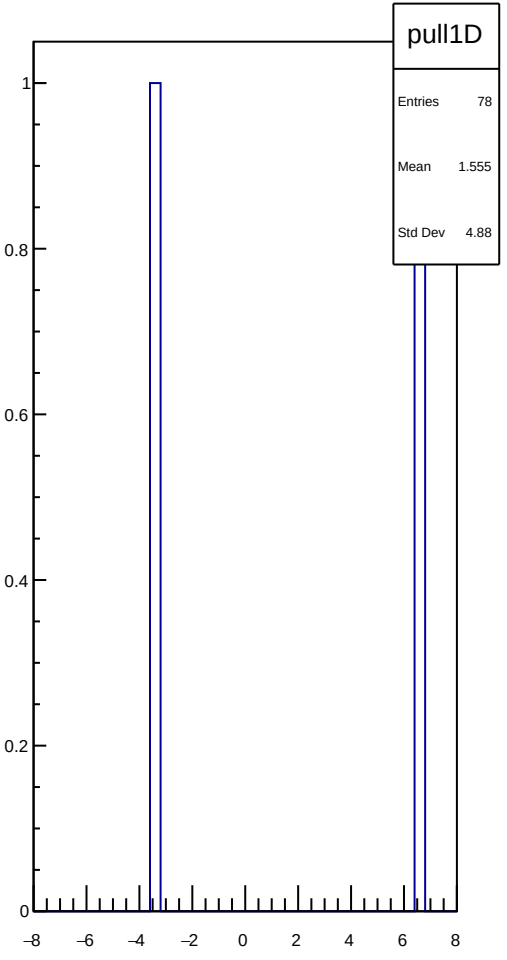

pull1D
Entries 78
Mean 0.009147
Std Dev 1.03
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

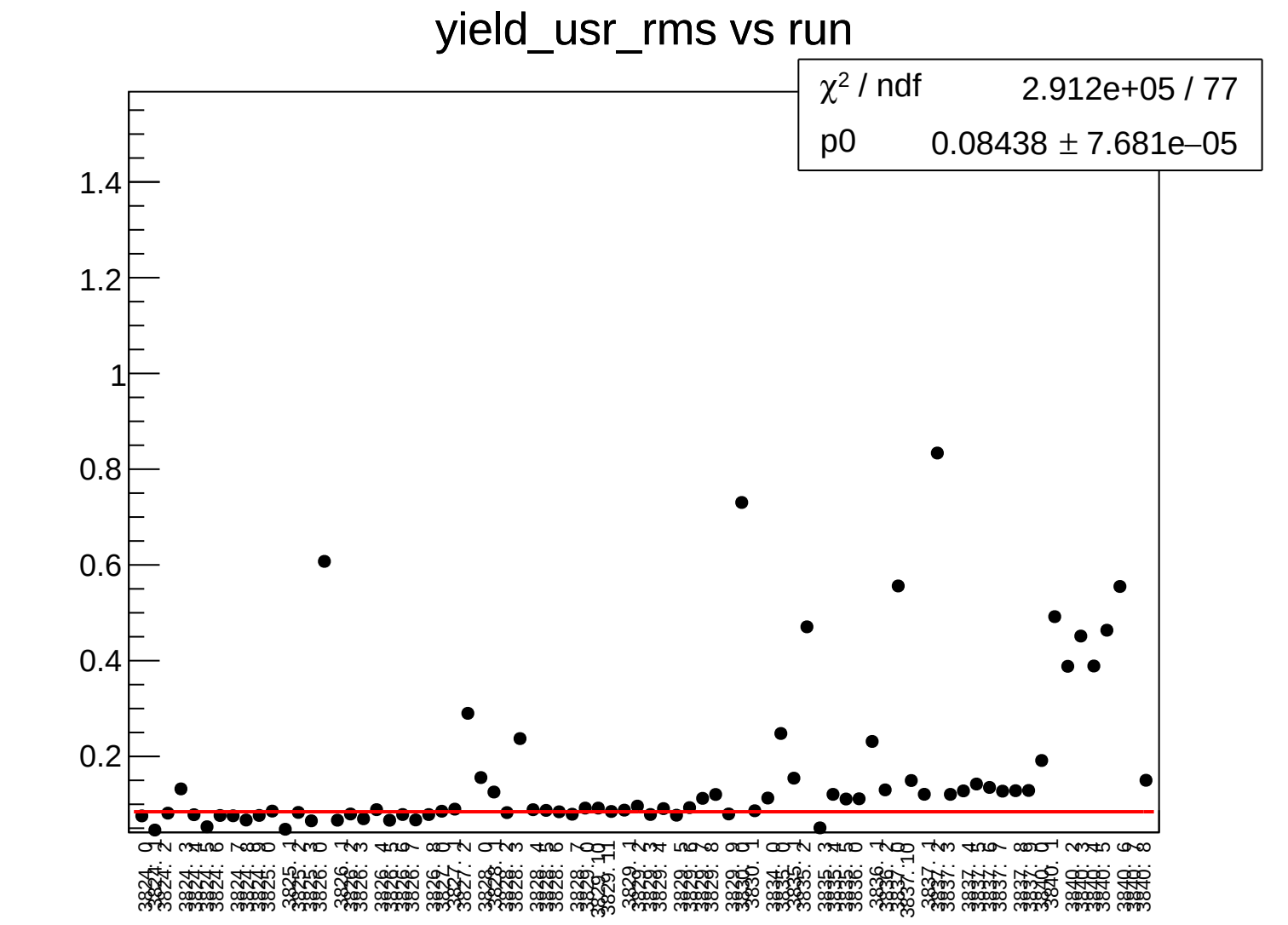

asym_bcm_an_ds_cav4cQ_agg_dd_rms vs run
χ² / ndf 4593 / 77
p0 27.84 ± 0.02278
32
31
30
29
28
27
26
25
24

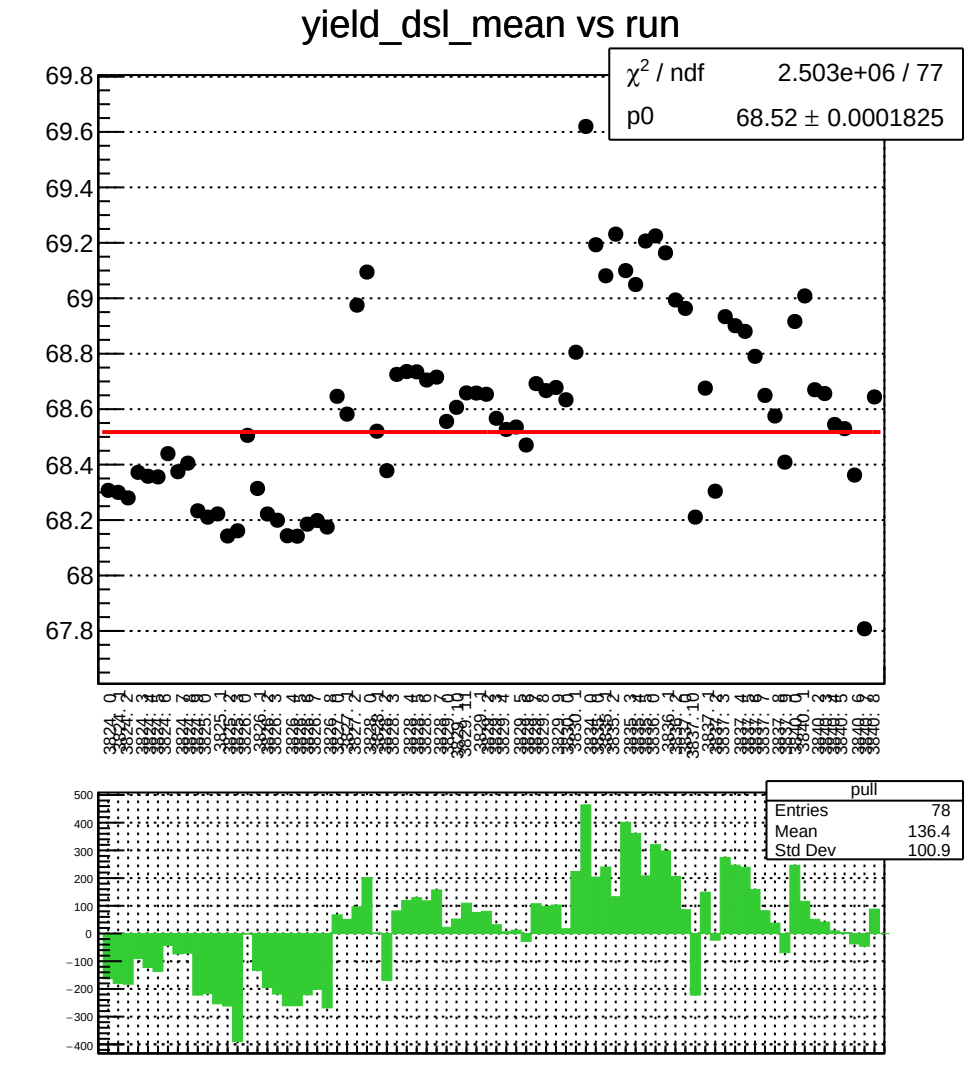

yield_usl_mean vs run
χ² / ndf 2.131e+06 / 77
p0 70.27 ± 0.0001779
pull
Entries 78
Mean 140.6
Std Dev 104.8
pull1D
Entries 78
Mean −0.9495
Std Dev 4.937

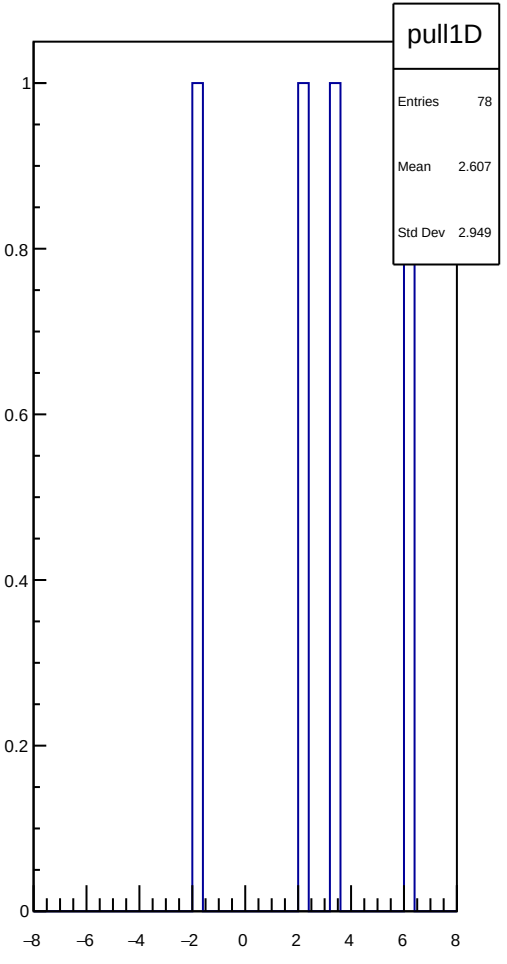

yield_usl_rms vs run
χ² / ndf 1.766e+05 / 77
p0 0.1446 ± 0.0001258
1.4
1.2
1
0.8
0.6
0.4
0.2

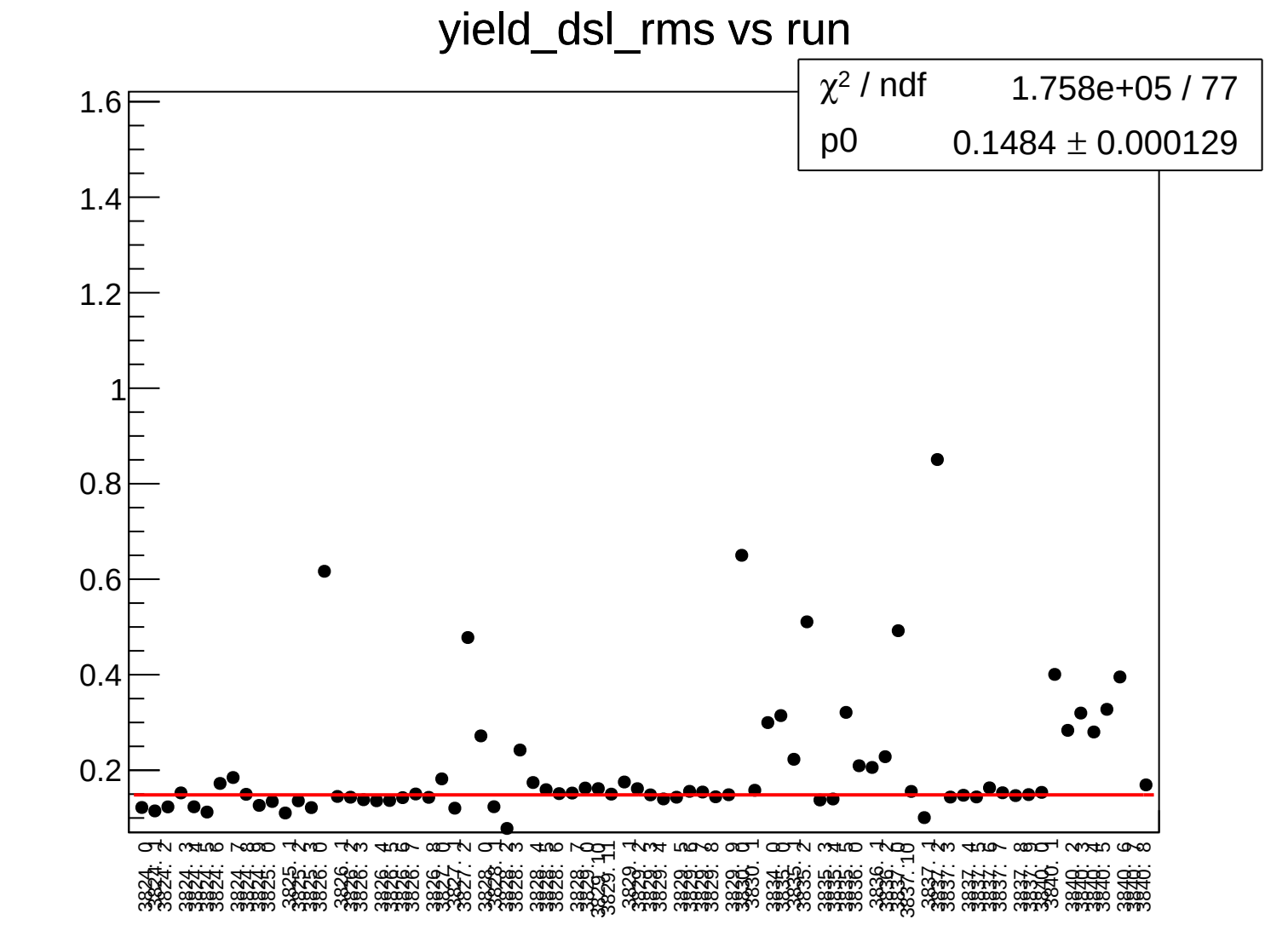

yield_usr_mean vs run
χ² / ndf 1.776e+06 / 77
p0 72.43 ± 0.0001086
73.2
73
72.8
72.6
72.4
72.2
72
71.8
pull
Entries 78
Mean 73.95
Std Dev 27.17
300
200
100
0
−100
−200
−300
−400
−500

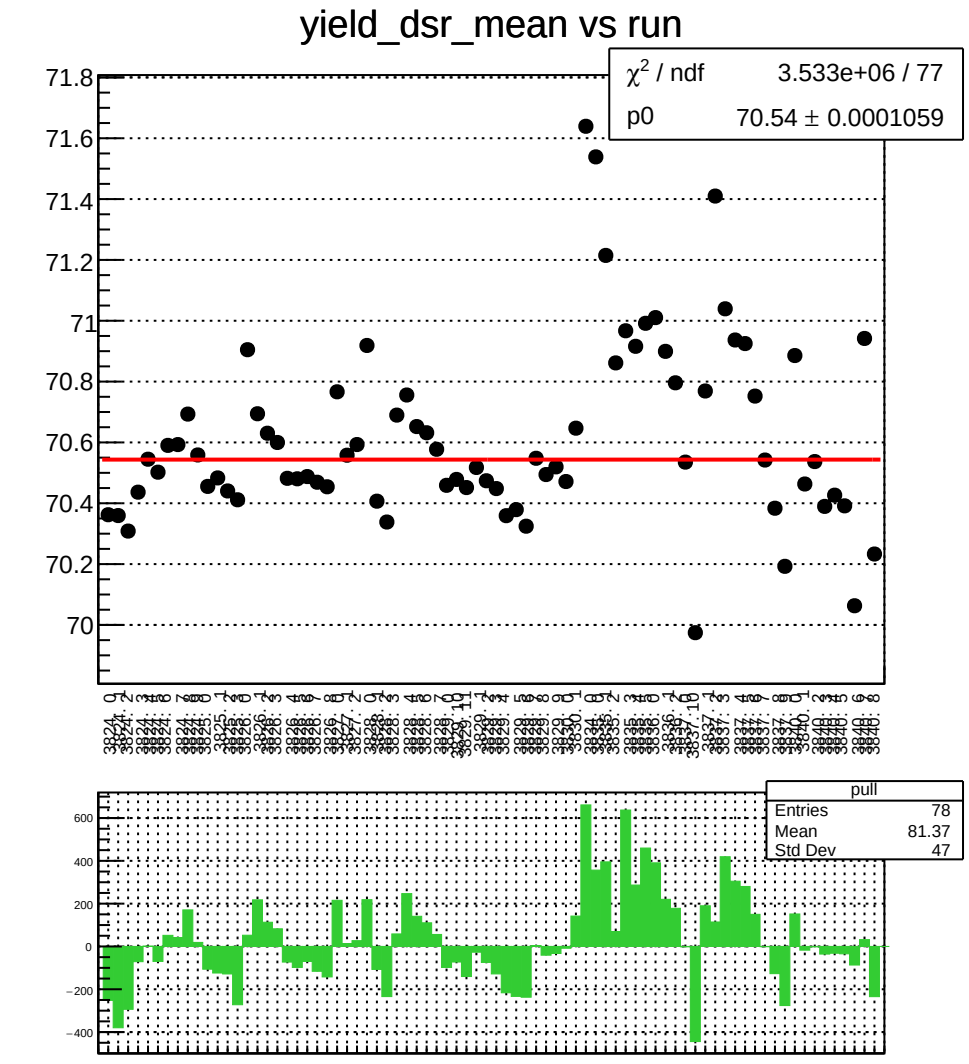

pull1D
Entries 78
Mean 1.555
Std Dev 4.88
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

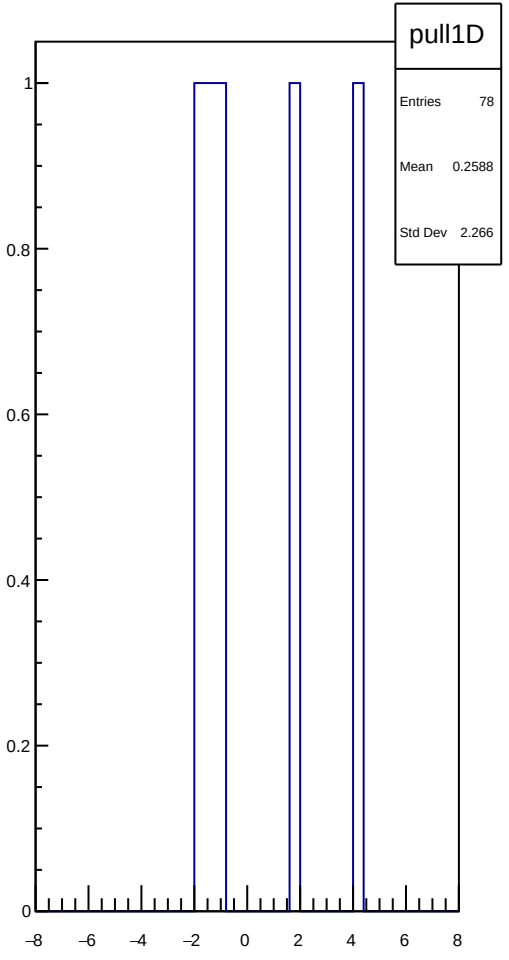

yield_usr_rms vs run
χ² / ndf 2.912e+05 / 77
p0 0.08438 ± 7.681e−05
1.4
1.2
1
0.8
0.6
0.4
0.2

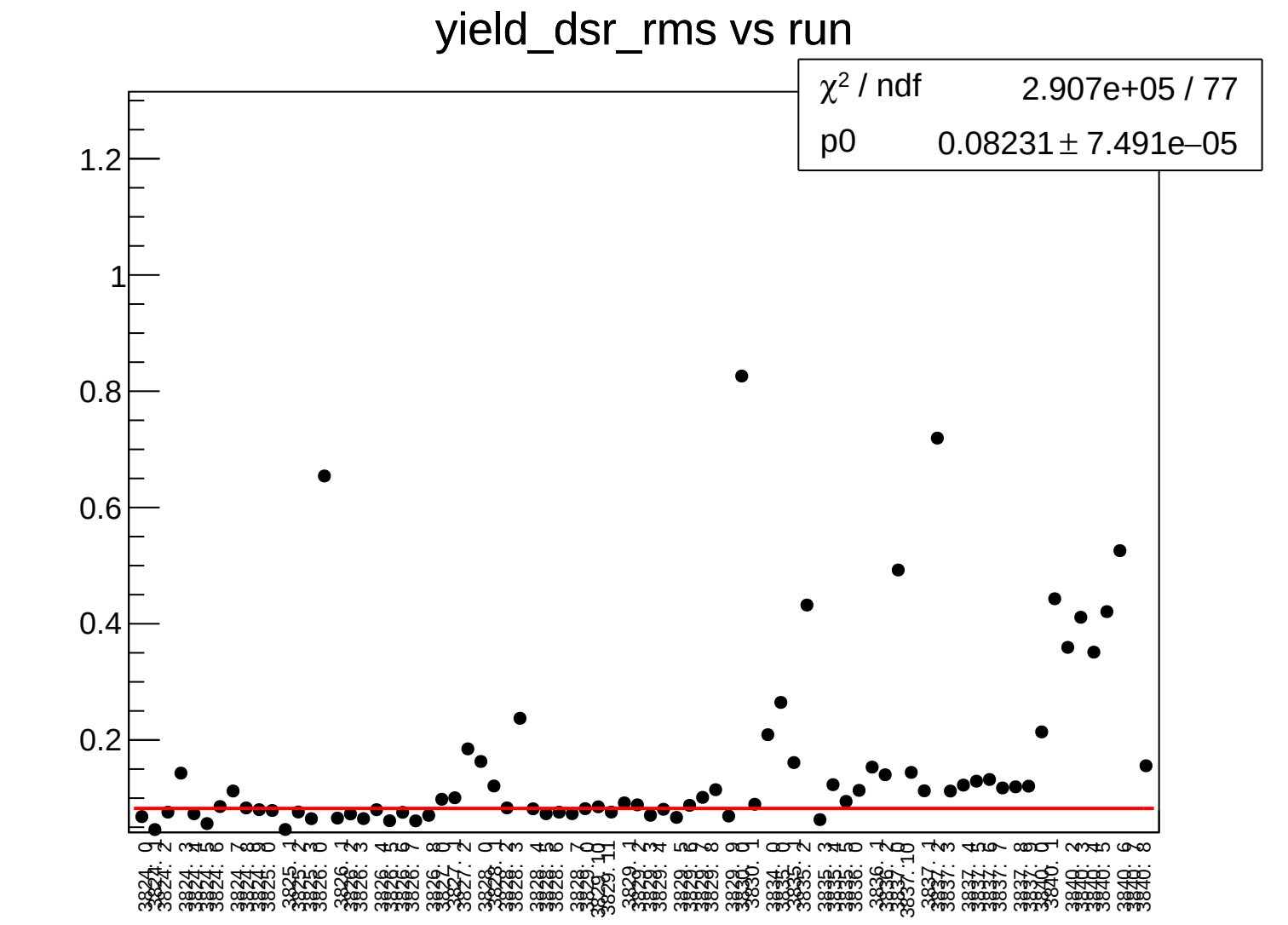

yield_dsl_mean vs run
χ² / ndf 2.503e+06 / 77
p0 68.52 ± 0.0001825
pull
Entries 78
Mean 136.4
Std Dev 100.9

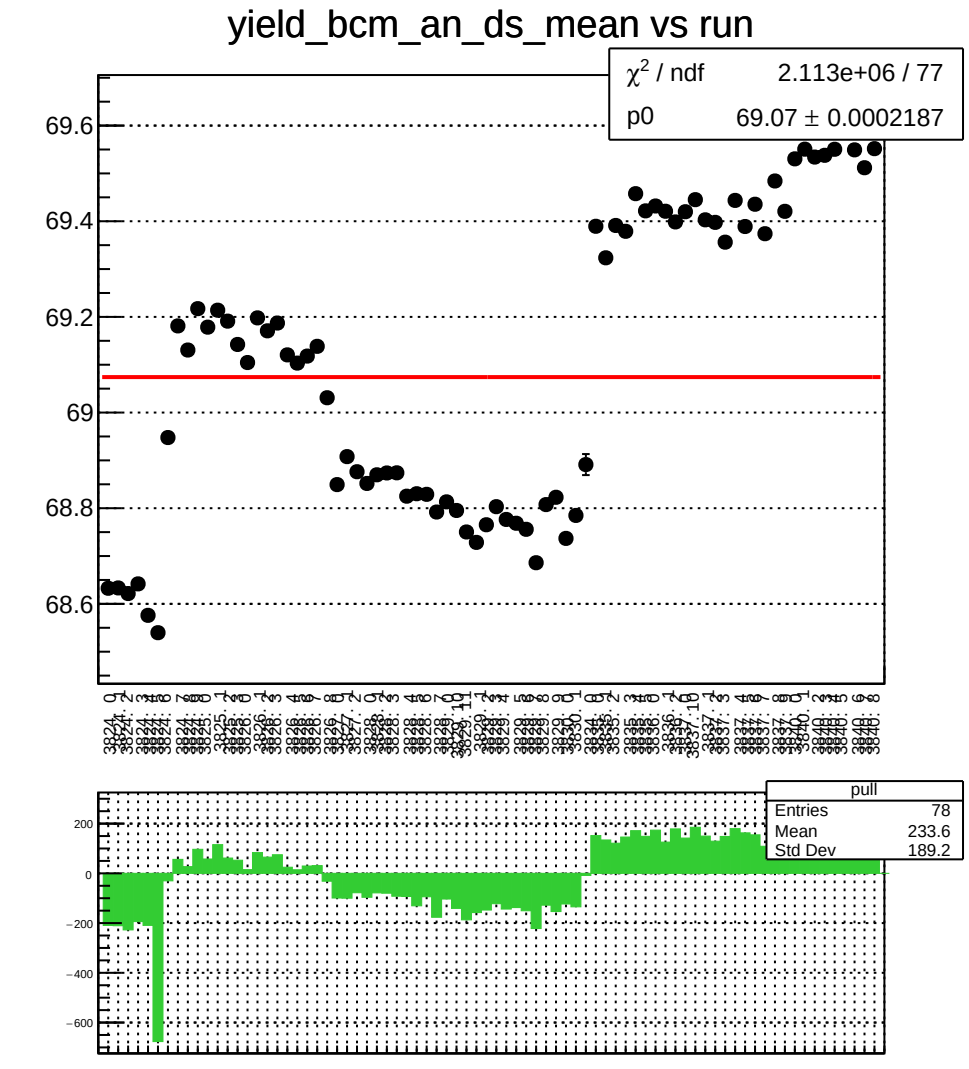

pull1D
Entries 78
Mean 2.607
Std Dev 2.949

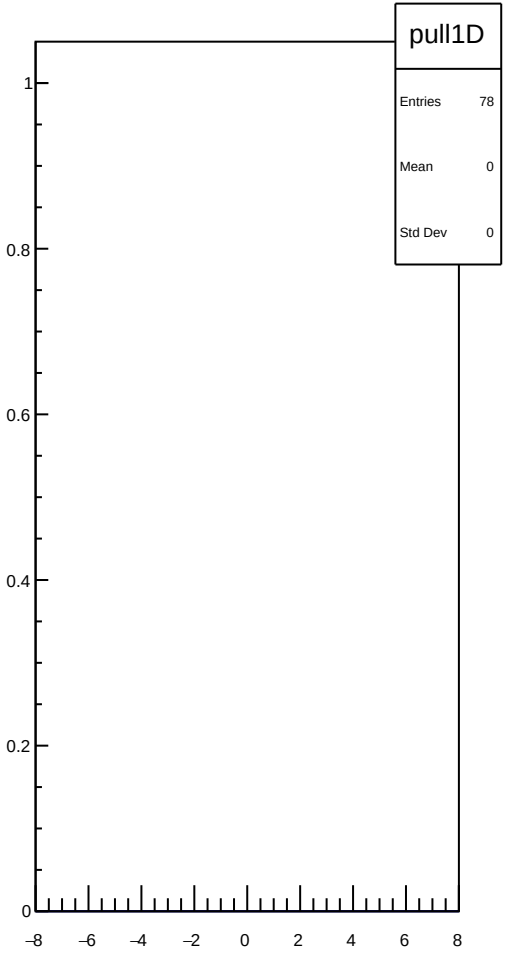

yield_dsl_rms vs run
χ² / ndf 1.758e+05 / 77
p0 0.1484 ± 0.000129
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

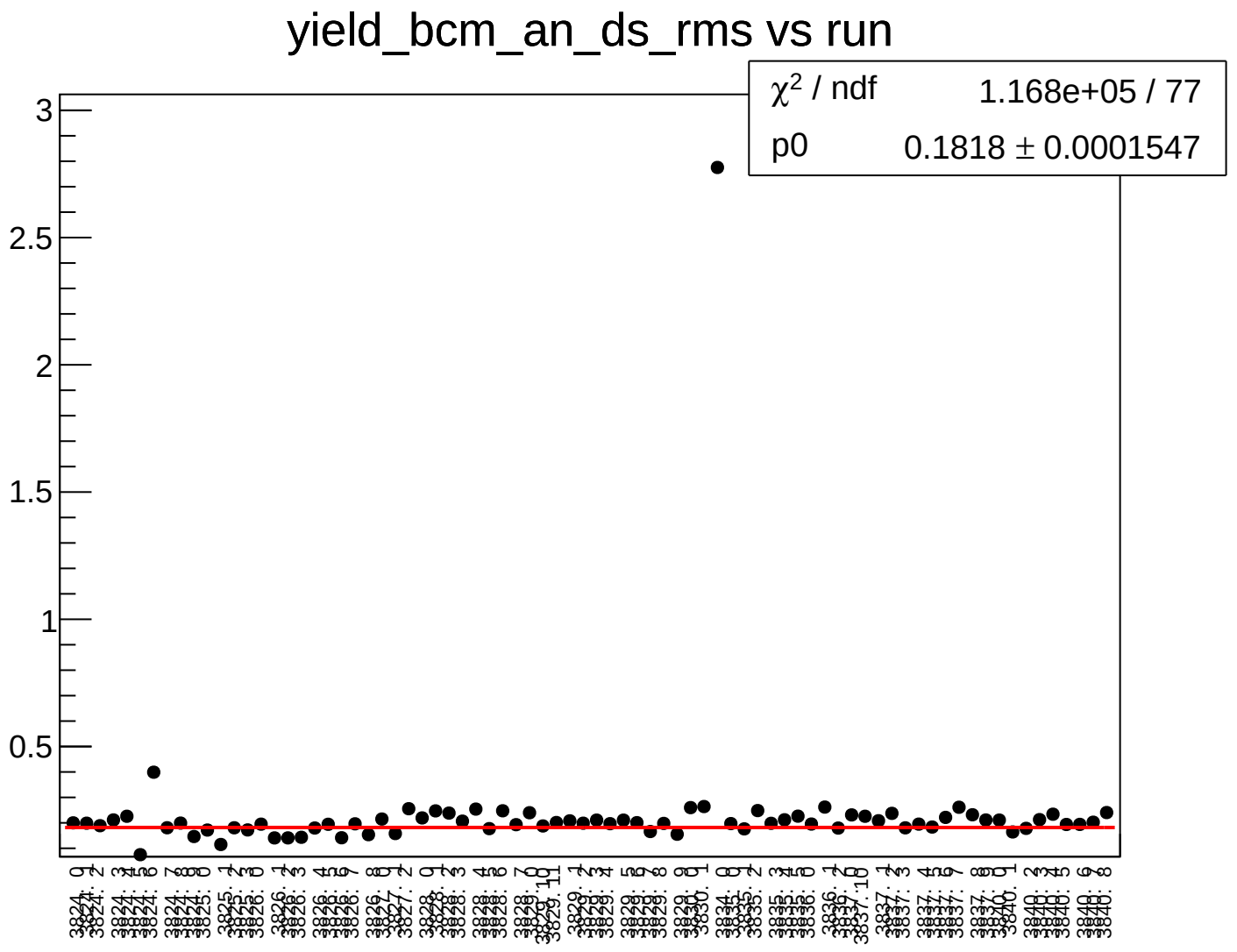

yield_dsr_mean vs run
χ² / ndf 3.533e+06 / 77
p0 70.54 ± 0.0001059
pull
Entries 78
Mean 81.37
Std Dev 47

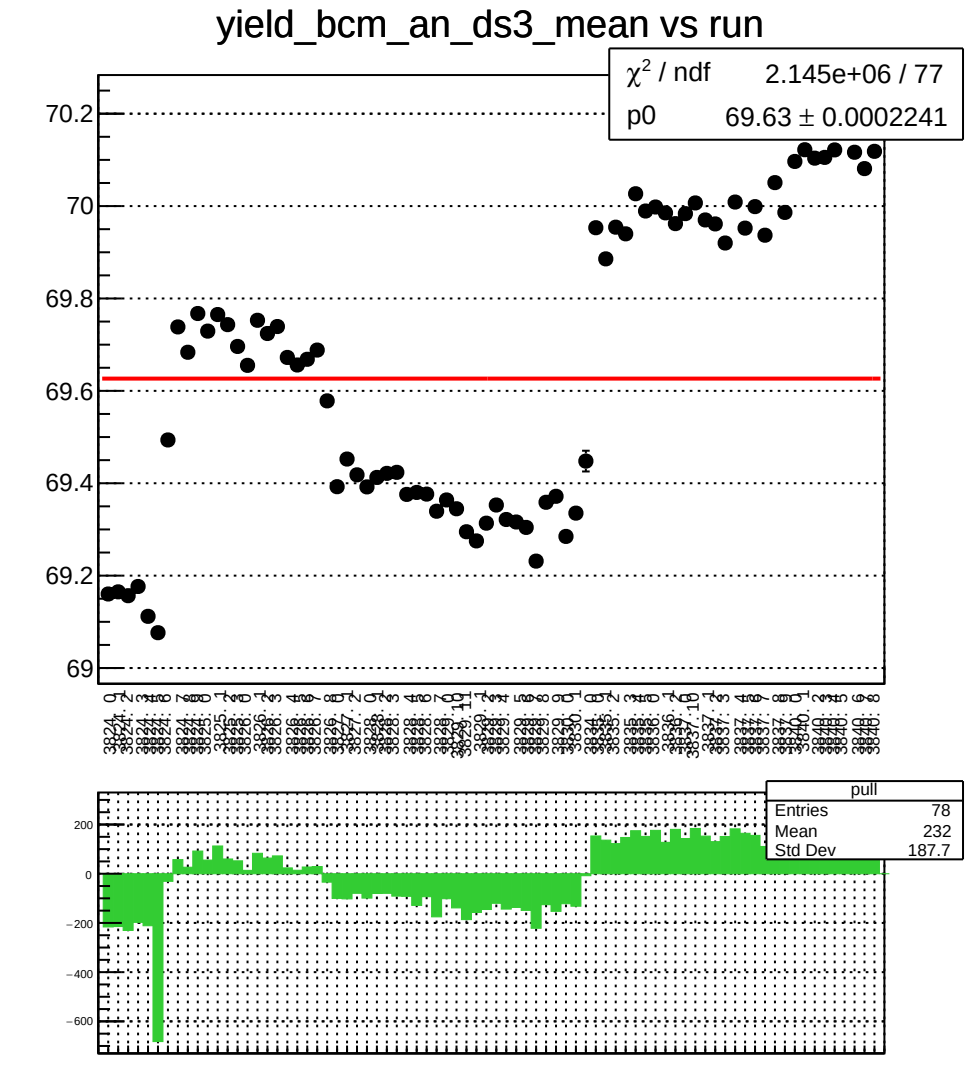

pull1D
Entries 78
Mean 0.2588
Std Dev 2.266

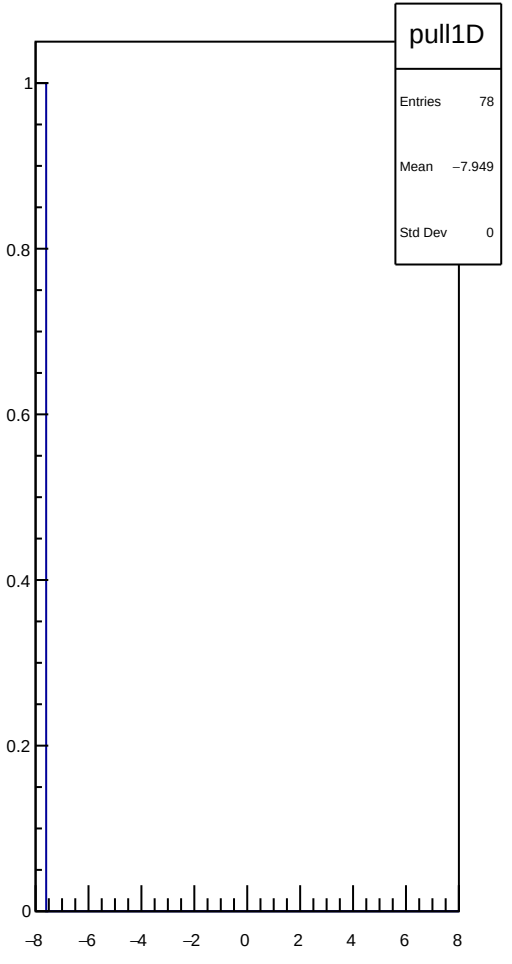

yield_dsr_rms vs run
χ² / ndf 2.907e+05 / 77
p0 0.08231 ± 7.491e−05
1.2
1
0.8
0.6
0.4
0.2

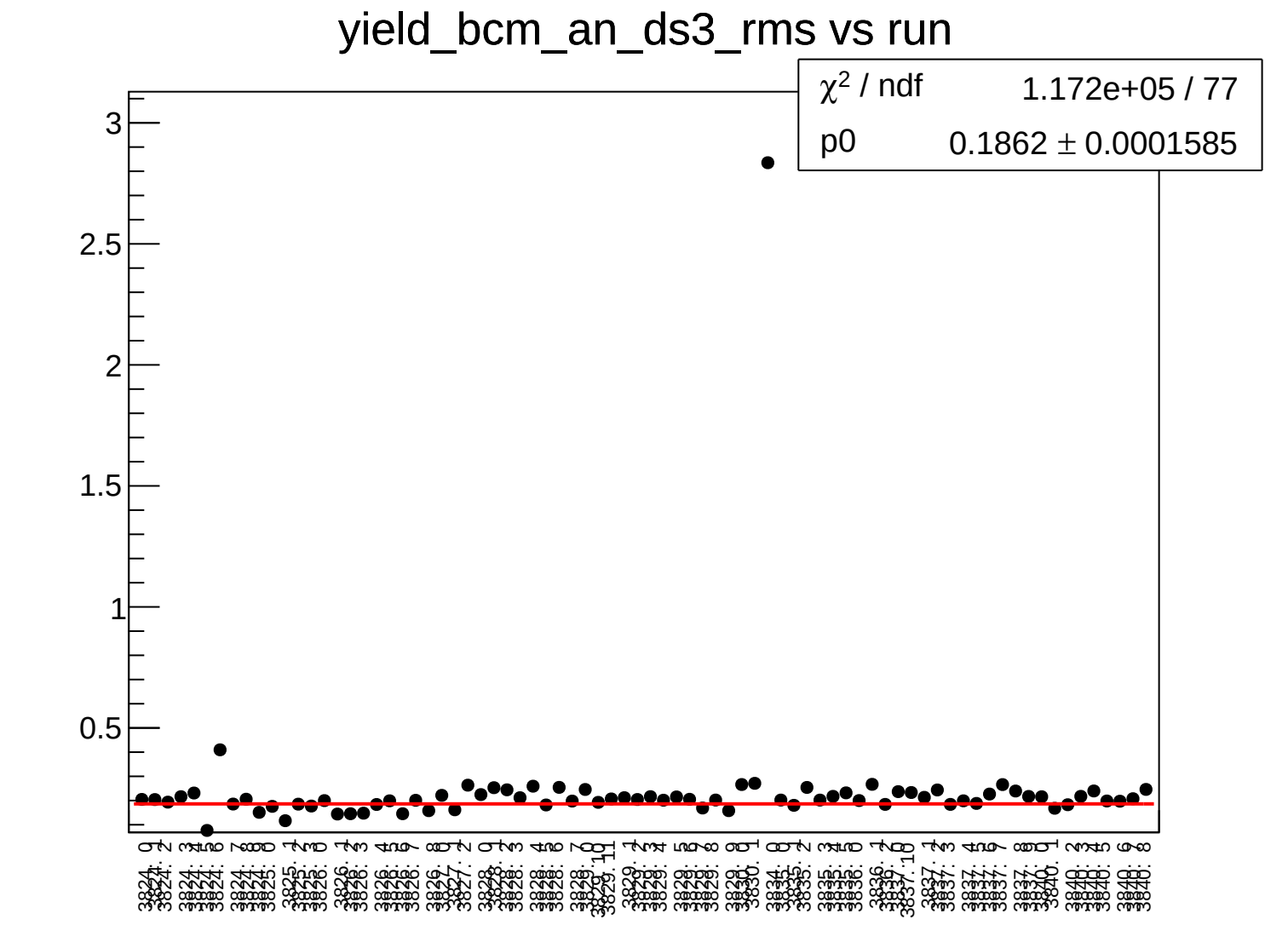

yield_bcm_an_ds_mean vs run
χ² / ndf 2.113e+06 / 77
p0 69.07 ± 0.0002187
69.6
69.4
69.2
69
68.8
68.6
pull
Entries 78
Mean 233.6
Std Dev 189.2
200
0
−200
−400
−600

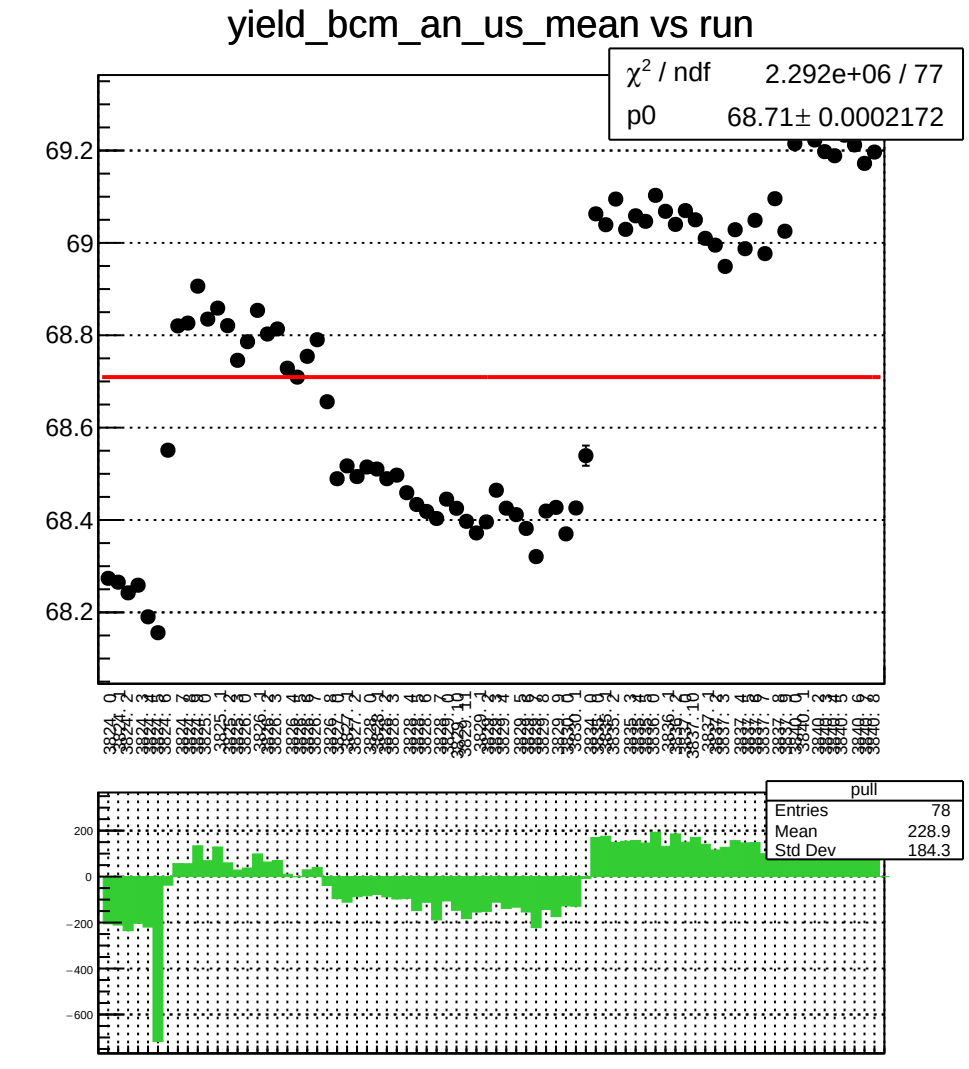

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

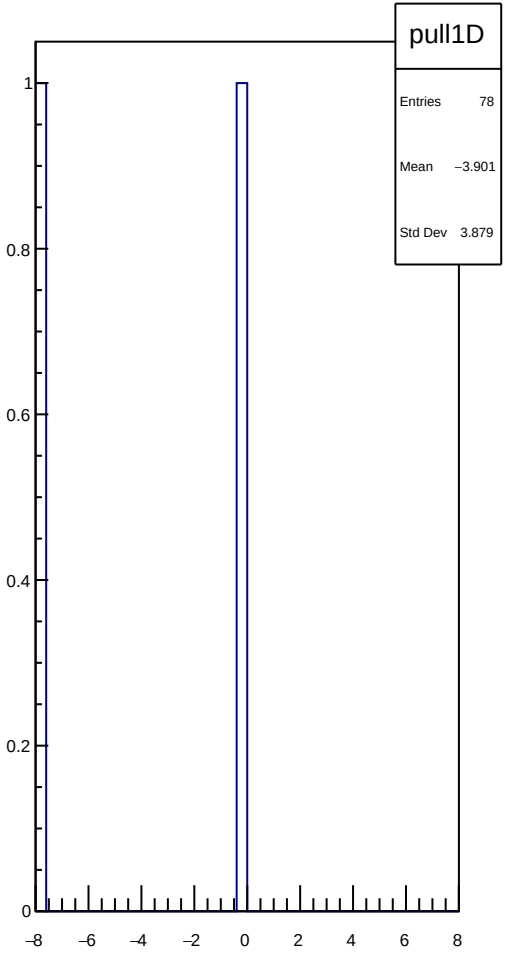

yield_bcm_an_ds_rms vs run
χ² / ndf 1.168e+05 / 77
p0 0.1818 ± 0.0001547
3
2.5
2
1.5
1
0.5

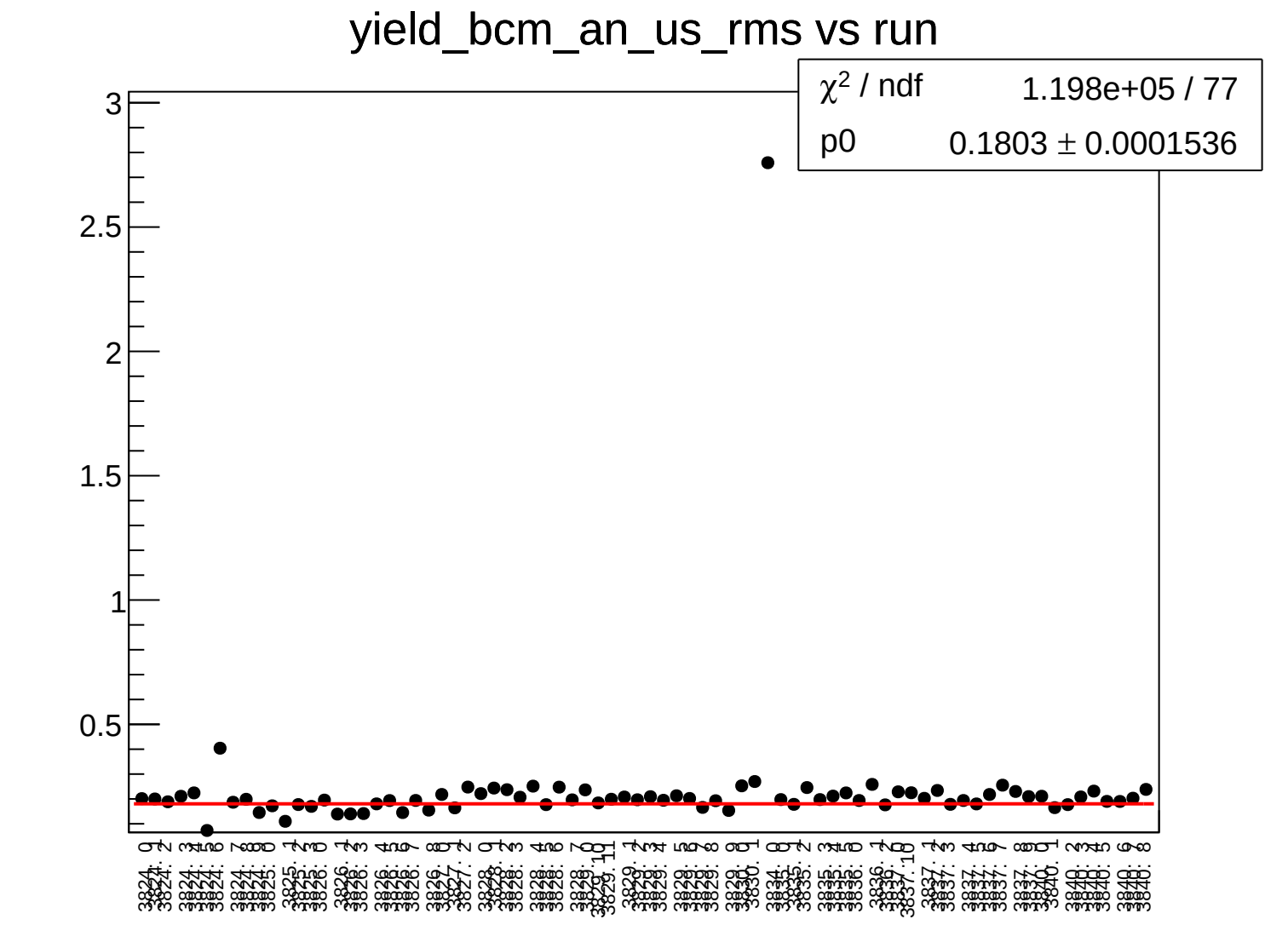

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.145e+06 / 77
p0 69.63 ± 0.0002241
70.2
70
69.8
69.6
69.4
69.2
69
pull
Entries 78
Mean 232
Std Dev 187.7
200
0
−200
−400
−600

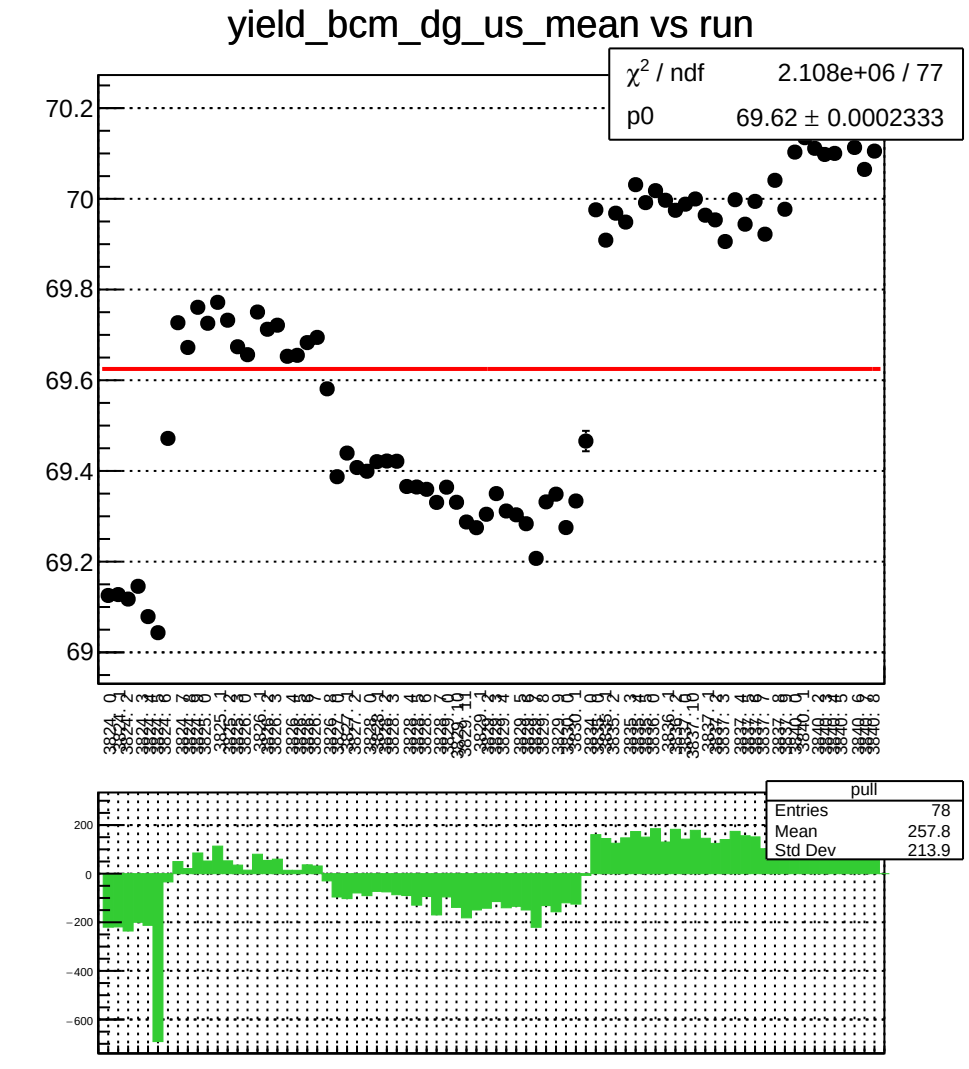

pull1D
Entries 78
Mean −7.949
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

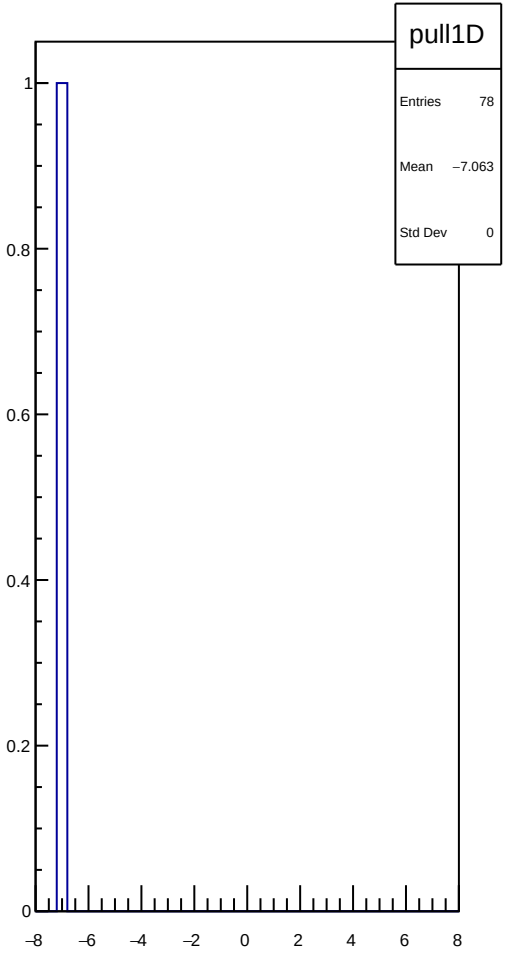

yield_bcm_an_ds3_rms vs run
χ^2 / ndf 1.172e+05 / 77
p0 0.1862 ± 0.0001585
3
2.5
2
1.5
1
0.5

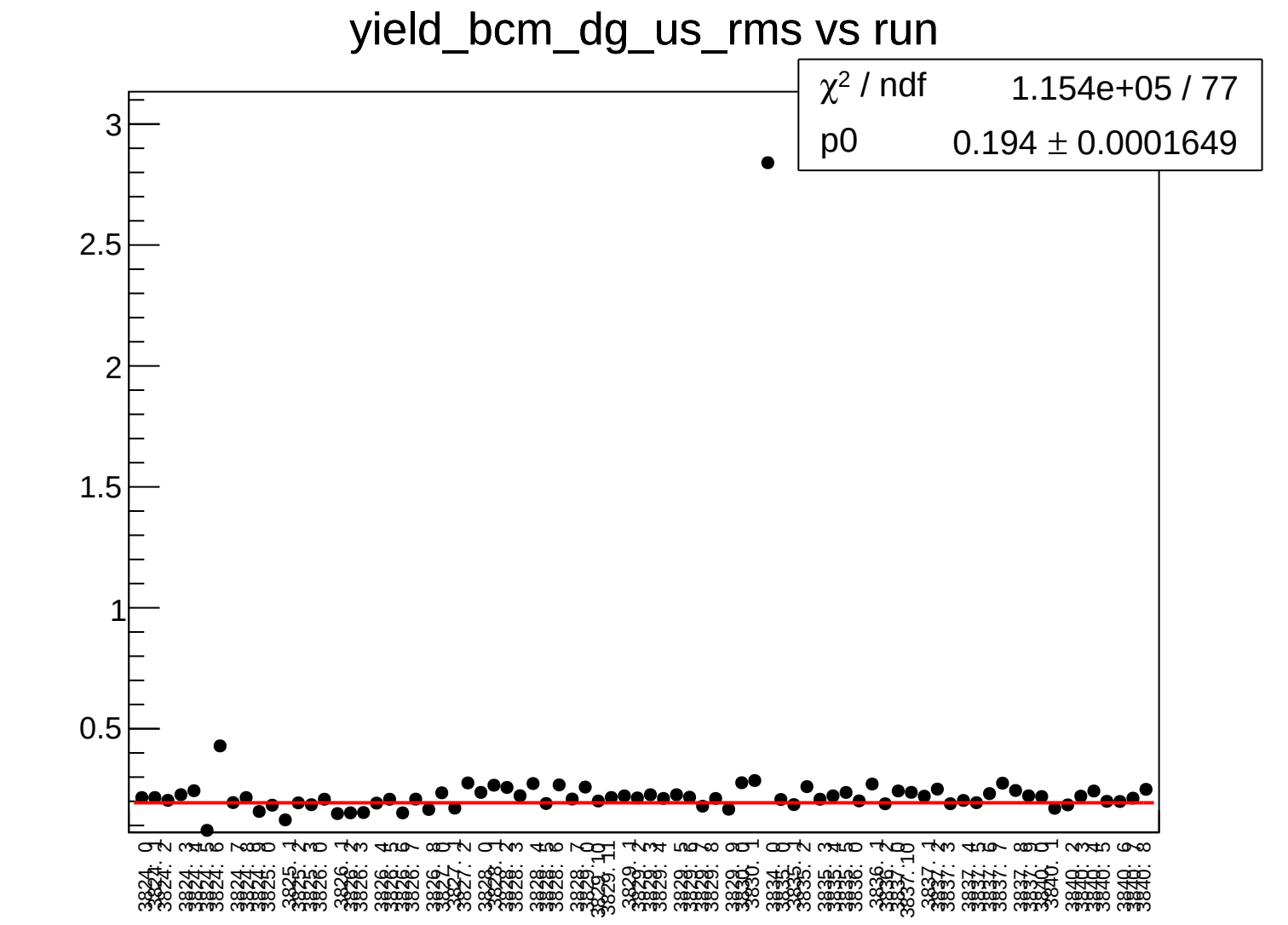

yield_bcm_an_us_mean vs run
χ² / ndf 2.292e+06 / 77
p0 68.71± 0.0002172
69.2
69
68.8
68.6
68.4
68.2
pull
Entries 78
Mean 228.9
Std Dev 184.3
200
0
−200
−400
−600

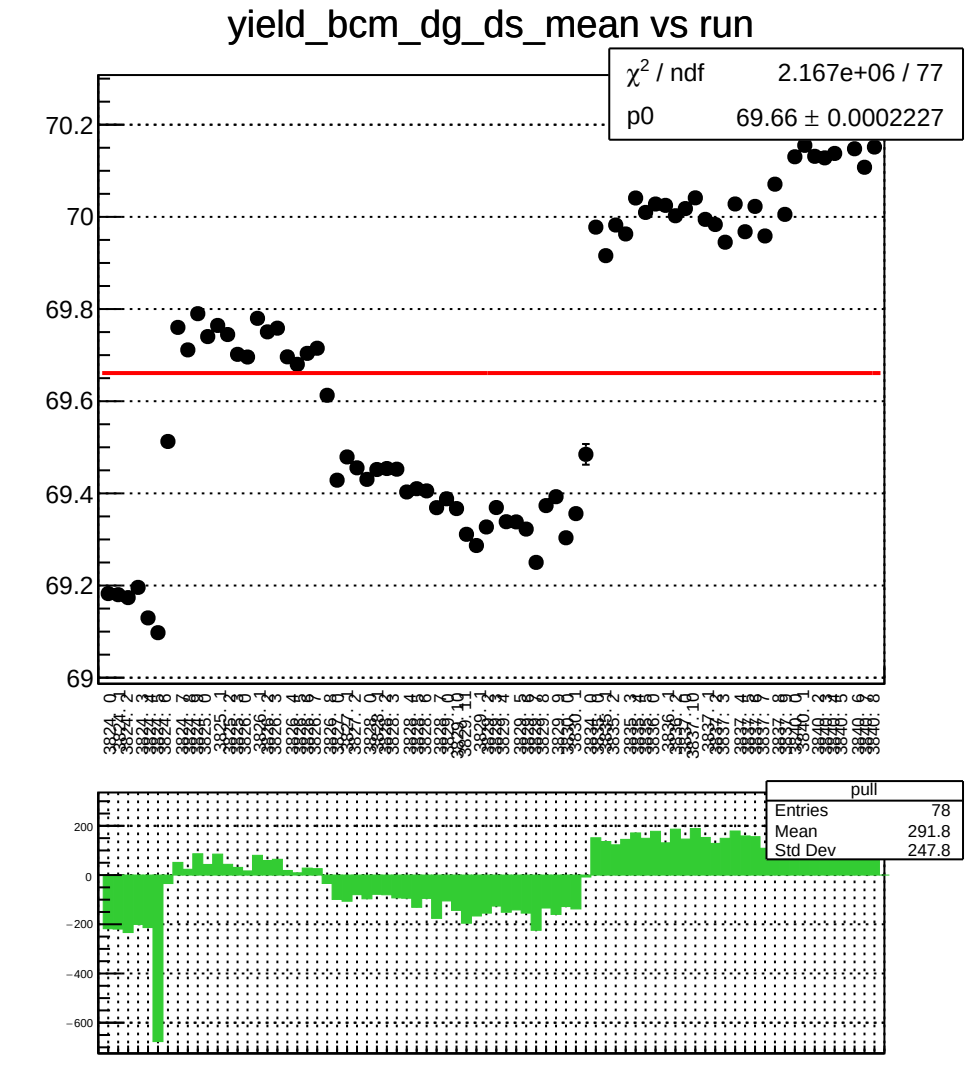

pull1D
Entries 78
Mean −3.901
Std Dev 3.879
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

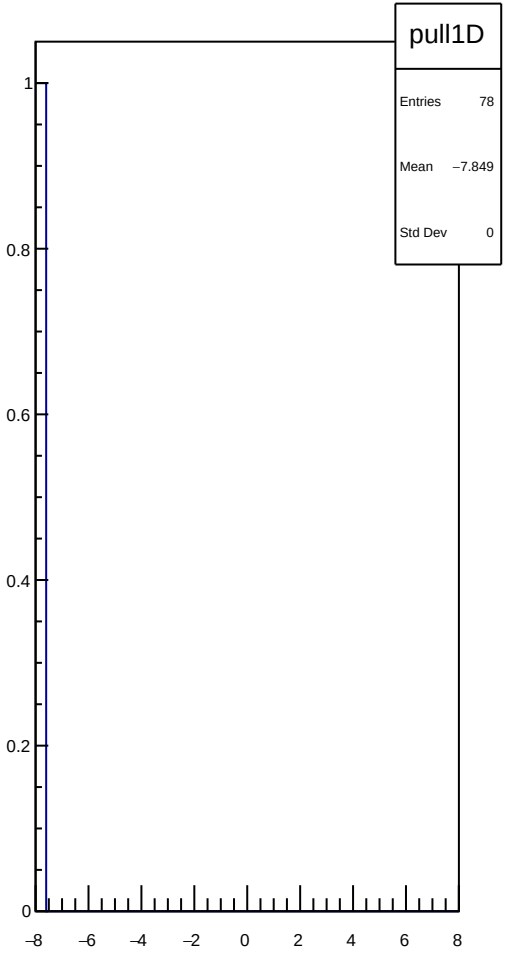

yield_bcm_an_us_rms vs run
χ² / ndf 1.198e+05 / 77
p0 0.1803 ± 0.0001536
3
2.5
2
1.5
1
0.5

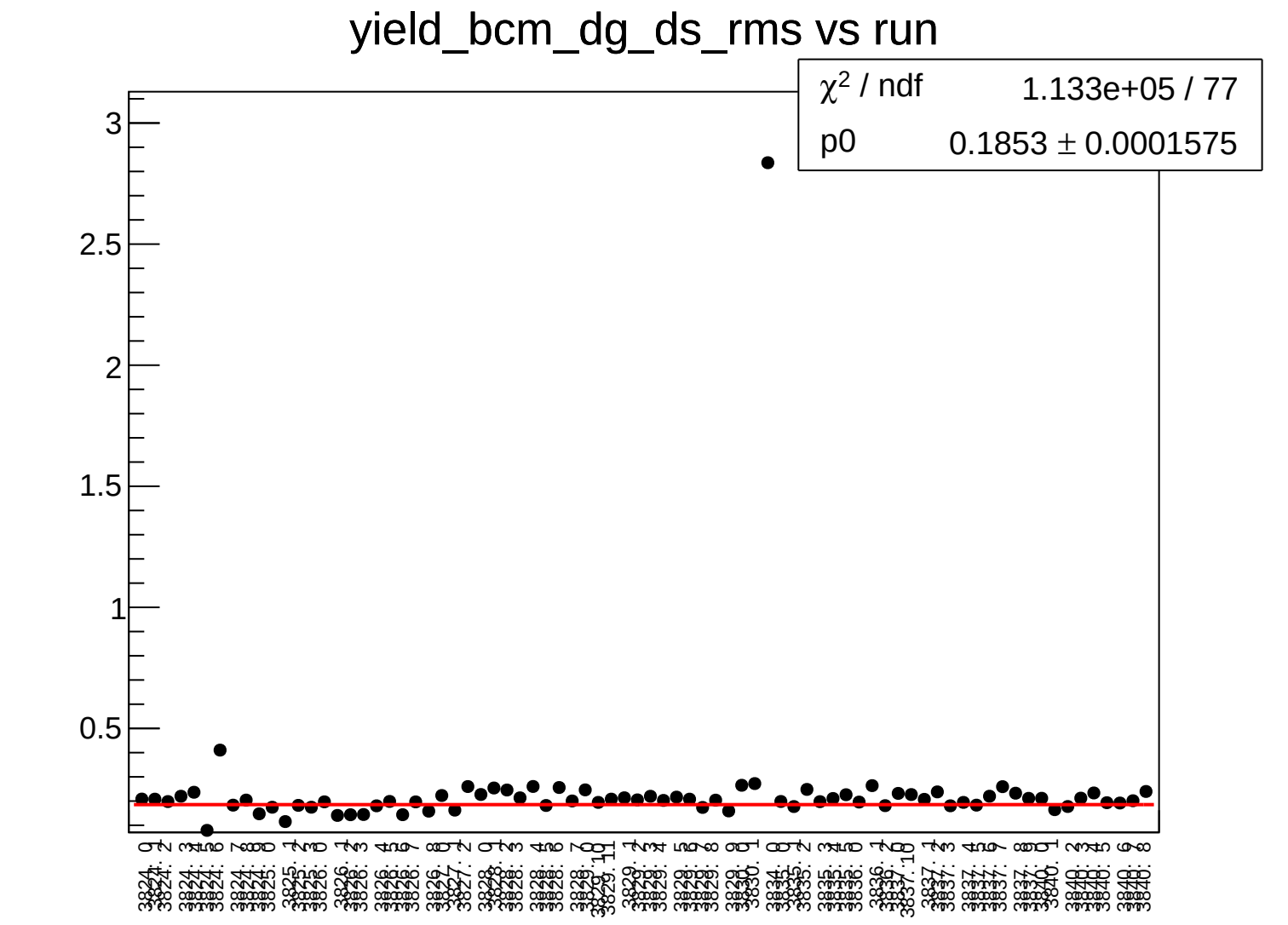

yield_bcm_dg_us_mean vs run
χ² / ndf 2.108e+06 / 77
p0 69.62 ± 0.0002333
70.2
70
69.8
69.6
69.4
69.2
69
pull
Entries 78
Mean 257.8
Std Dev 213.9
200
0
−200
−400
−600

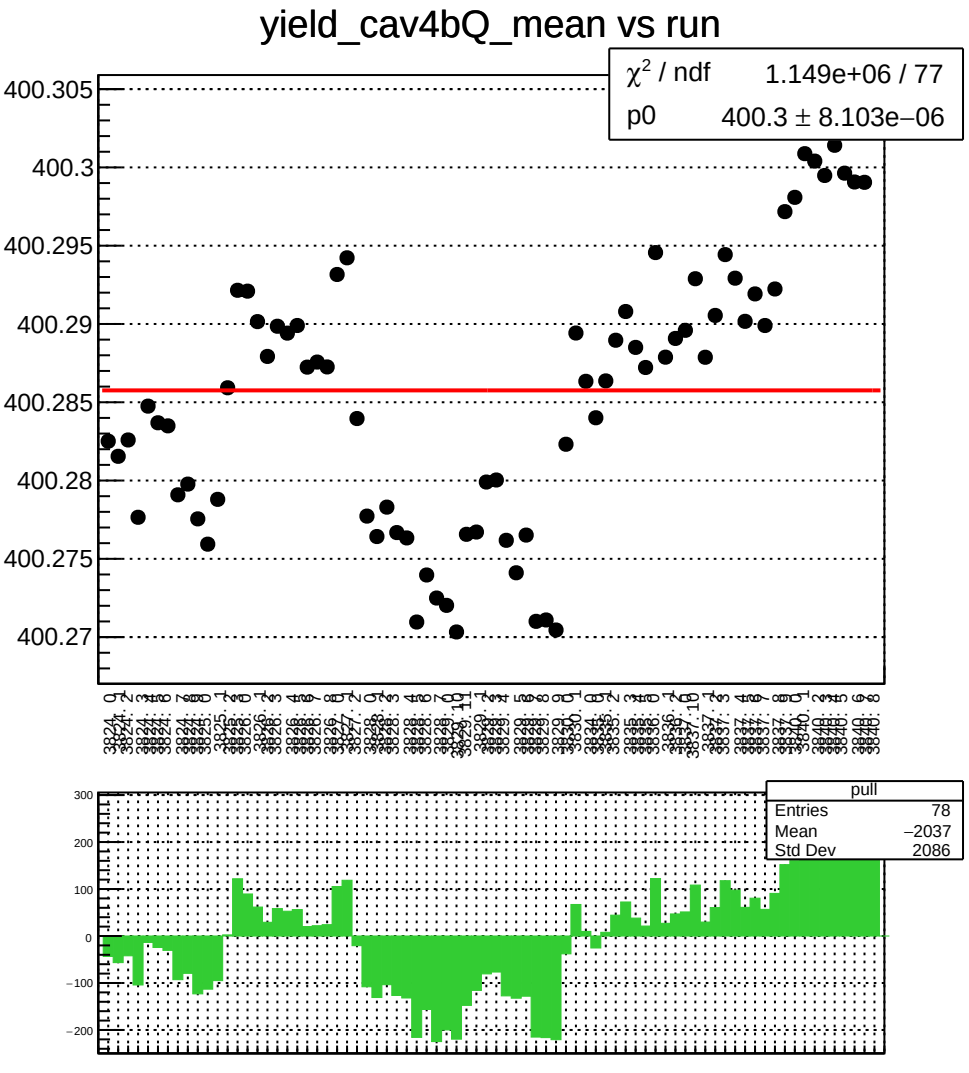

pull1D
Entries 78
Mean −7.063
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

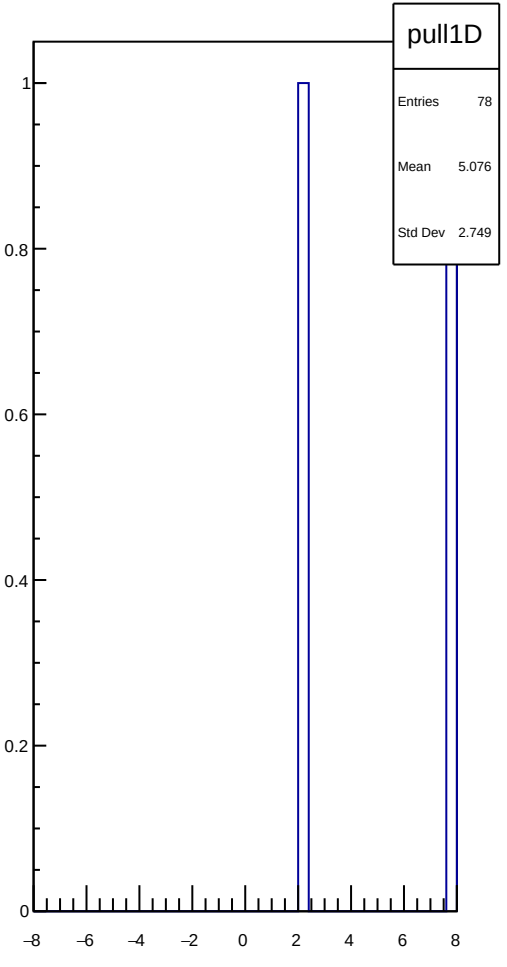

yield_bcm_dg_us_rms vs run
χ² / ndf 1.154e+05 / 77
p0 0.194 ± 0.0001649
3
2.5
2
1.5
1
0.5

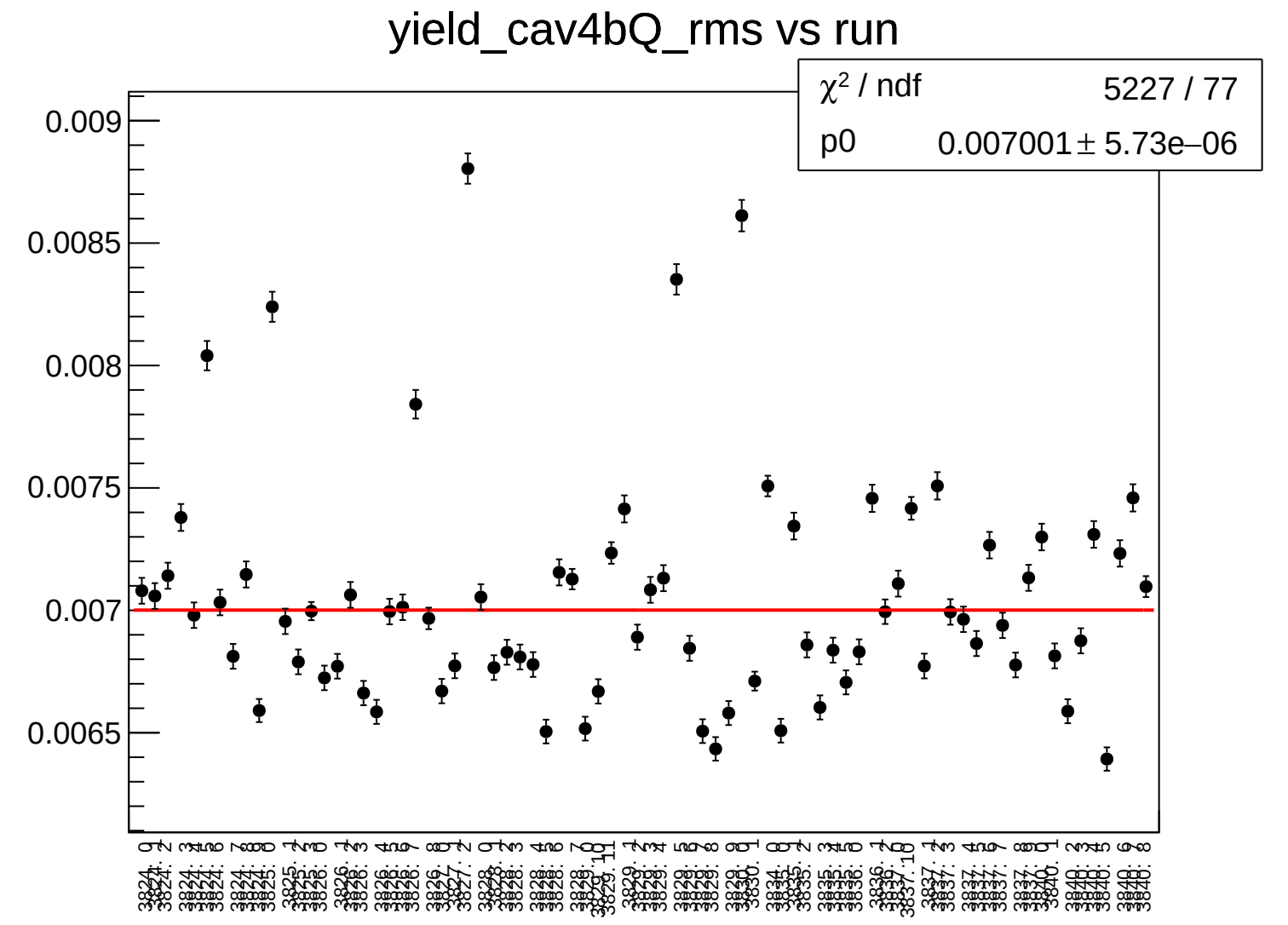

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.167e+06 / 77
p0 69.66 ± 0.0002227
70.2
70
69.8
69.6
69.4
69.2
69
pull
Entries 78
Mean 291.8
Std Dev 247.8
200
0
−200
−400
−600

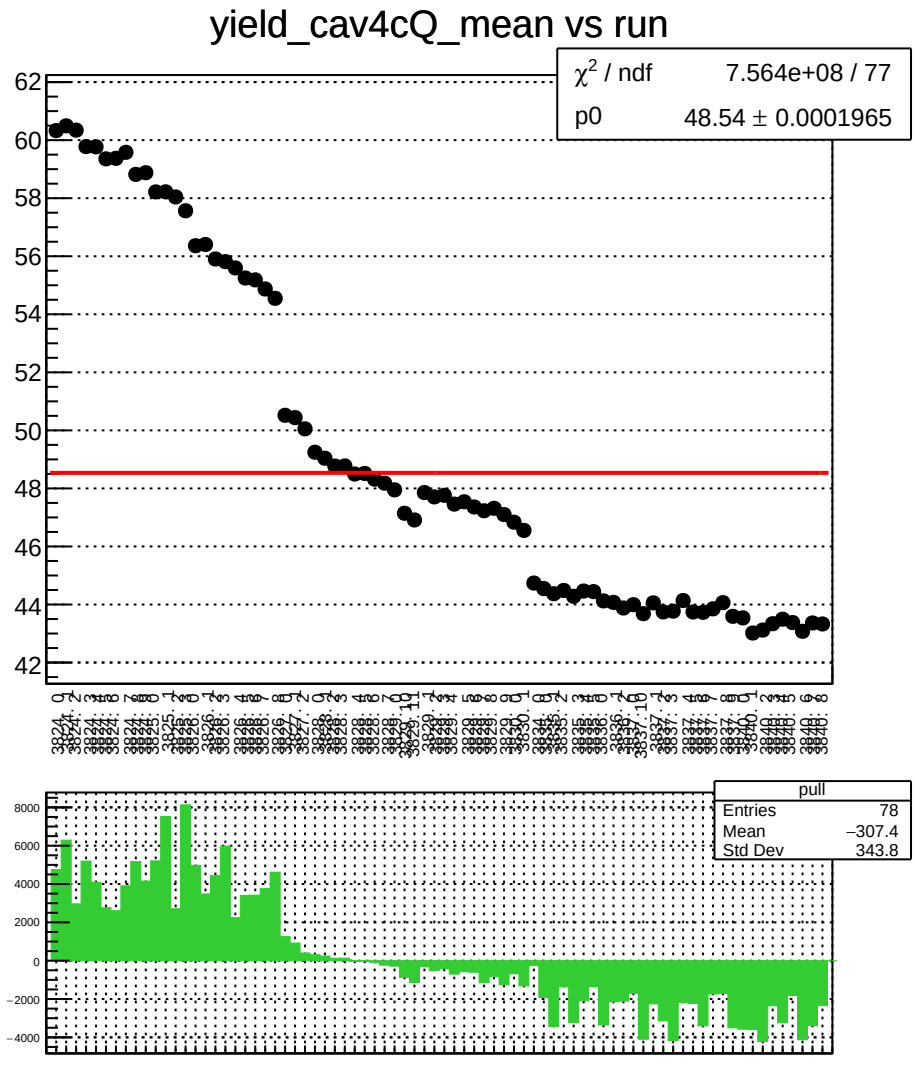

pull1D
Entries 78
Mean −7.849
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

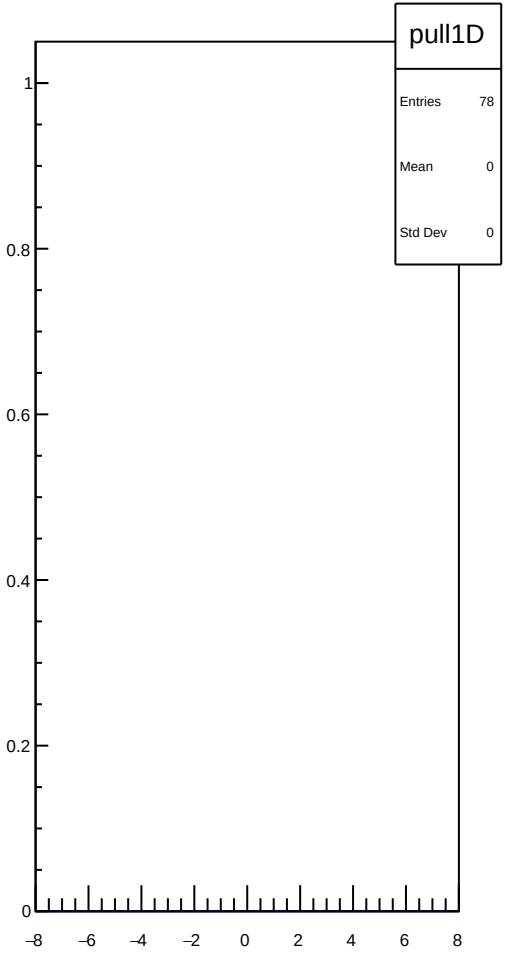

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.133e+05 / 77
p0 0.1853 ± 0.0001575
3
2.5
2
1.5
1
0.5

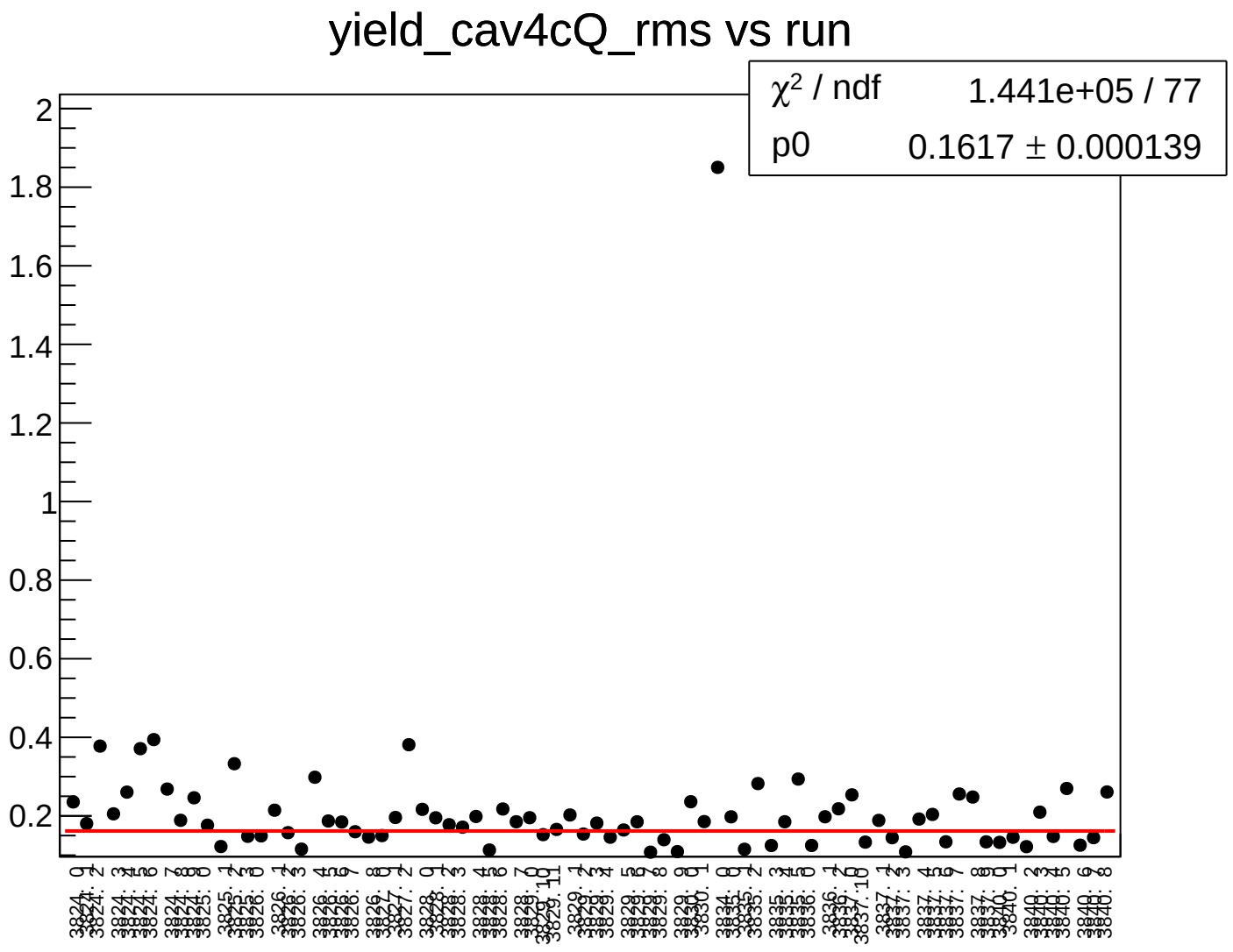

yield_cav4bQ_mean vs run
χ² / ndf 1.149e+06 / 77
p0 400.3 ± 8.103e−06
400.305
400.3
400.295
400.29
400.285
400.28
400.275
400.27
pull
Entries 78
Mean −2037
Std Dev 2086
300
200
100
0
−100
−200

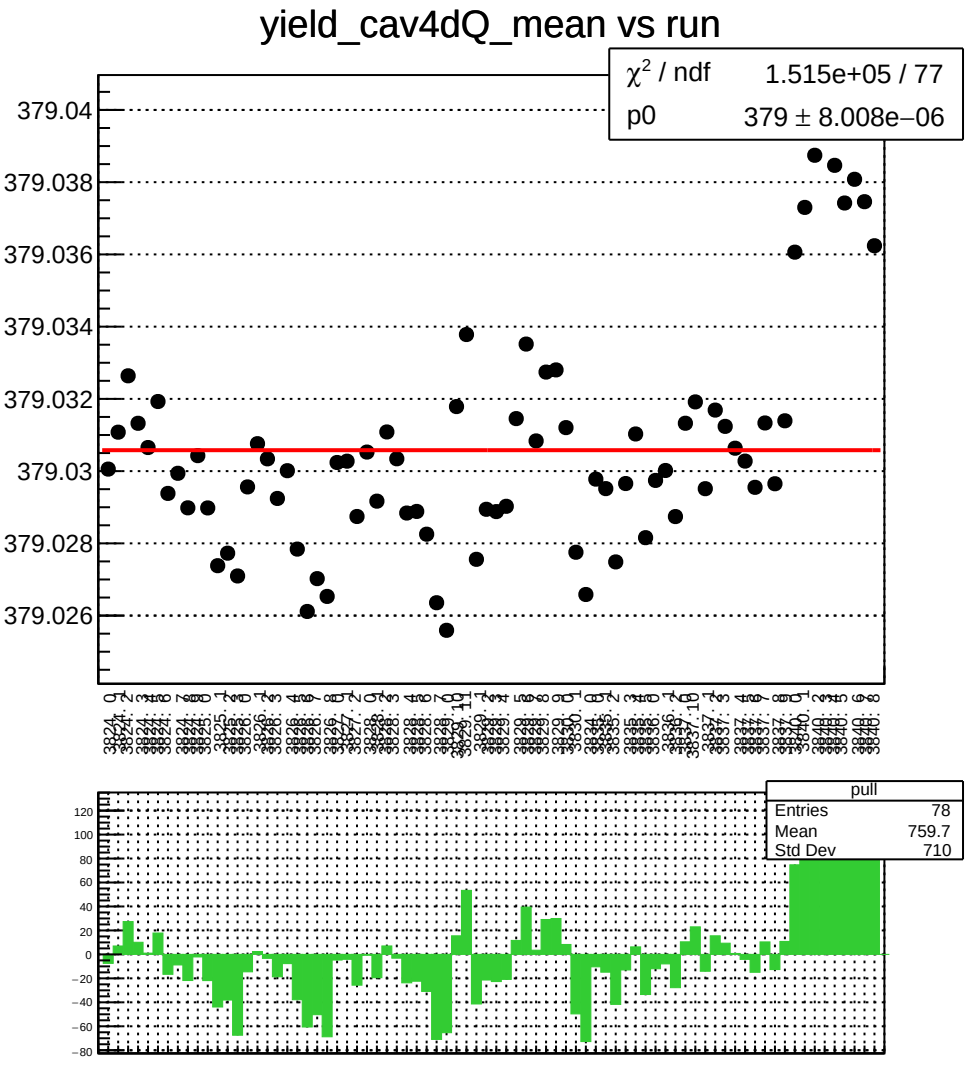

pull1D
Entries 78
Mean 5.076
Std Dev 2.749
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

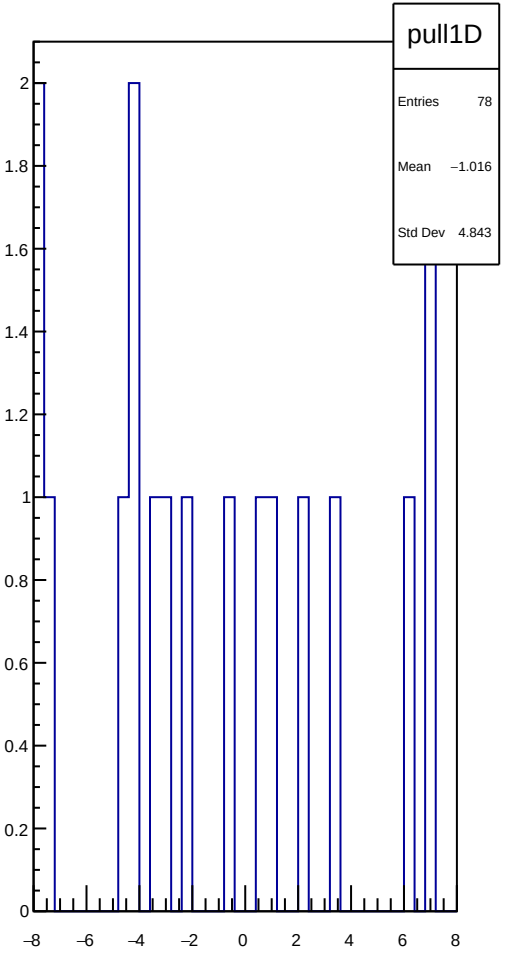

yield_cav4bQ_rms vs run
χ² / ndf 5227 / 77
p0 0.007001 ± 5.73e–06
0.009
0.0085
0.008
0.0075
0.007
0.0065

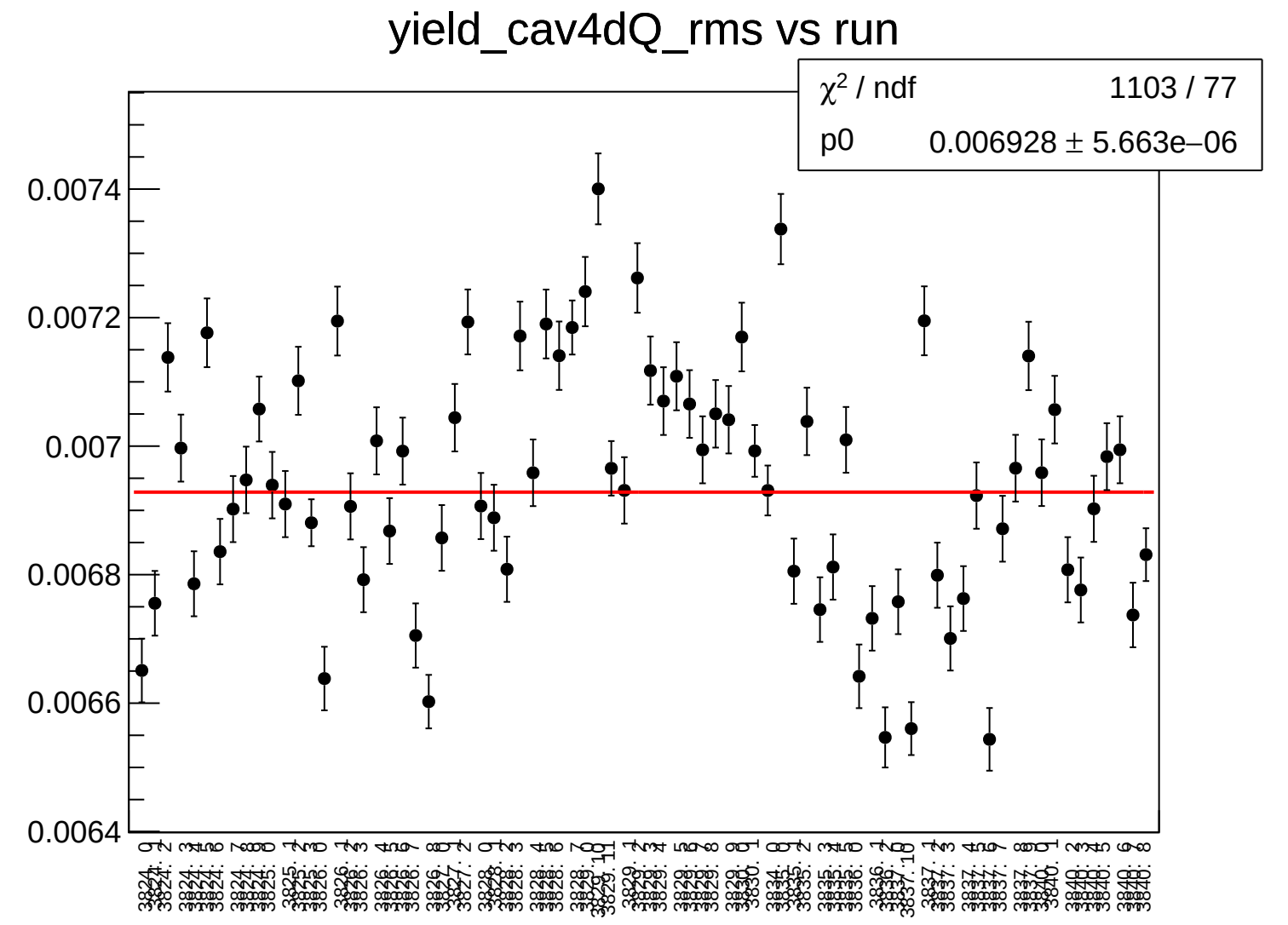

yield_cav4cQ_mean vs run
χ² / ndf 7.564e+08 / 77
p0 48.54 ± 0.0001965
pull
Entries 78
Mean −307.4
Std Dev 343.8

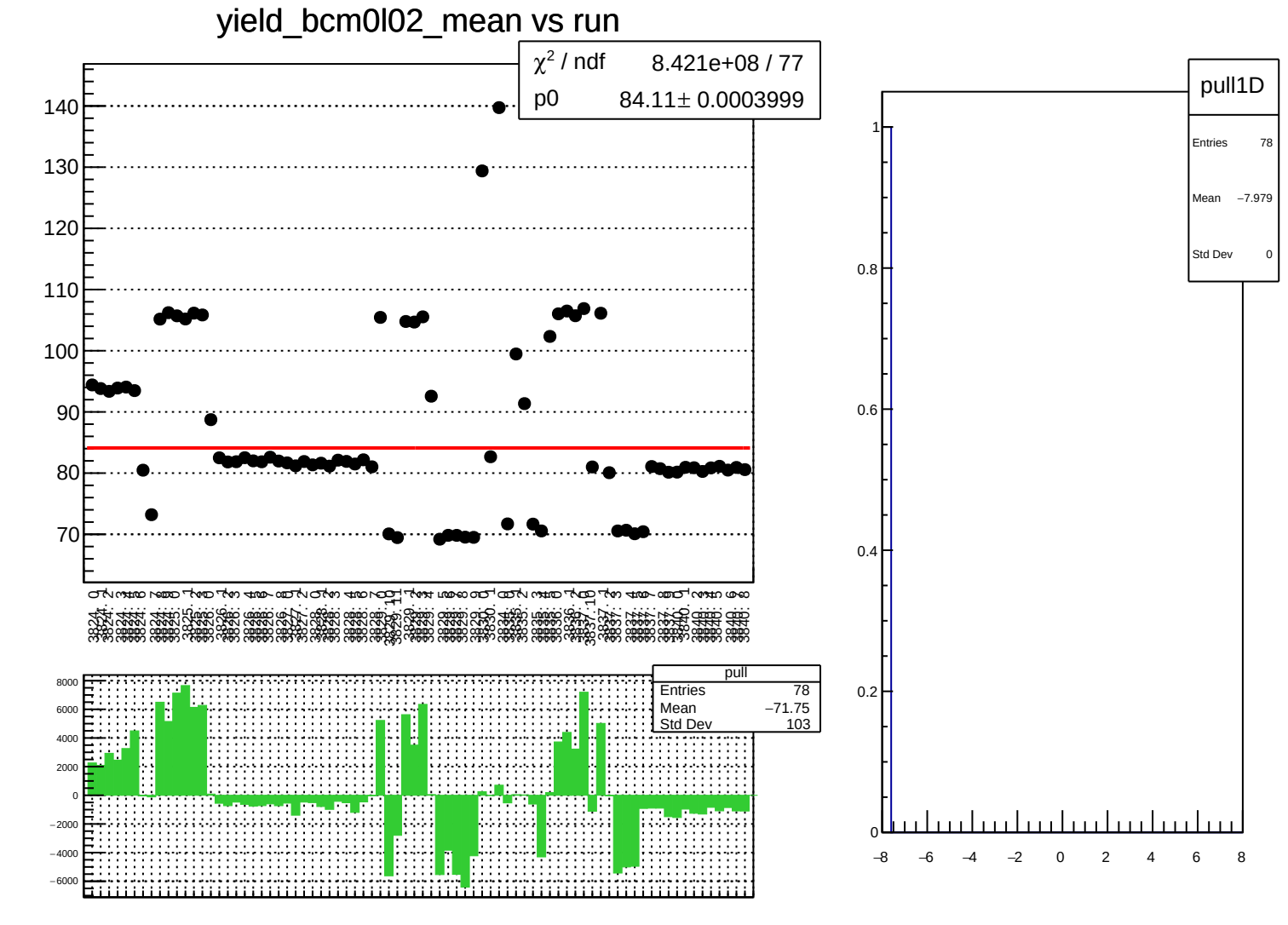

pull1D
Entries 78
Mean 0
Std Dev 0

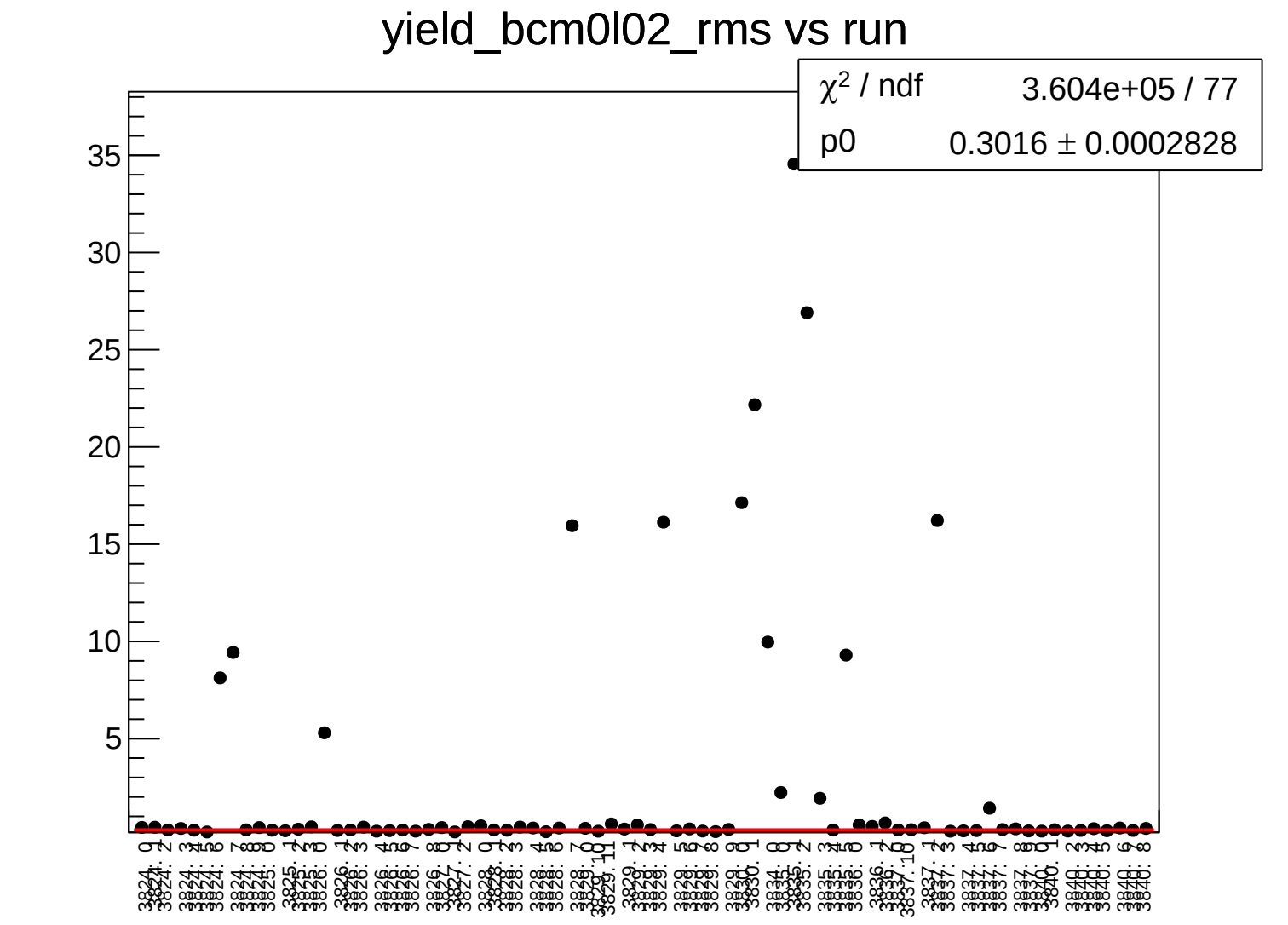

yield_cav4cQ_rms vs run
χ² / ndf 1.441e+05 / 77
p0 0.1617 ± 0.000139
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

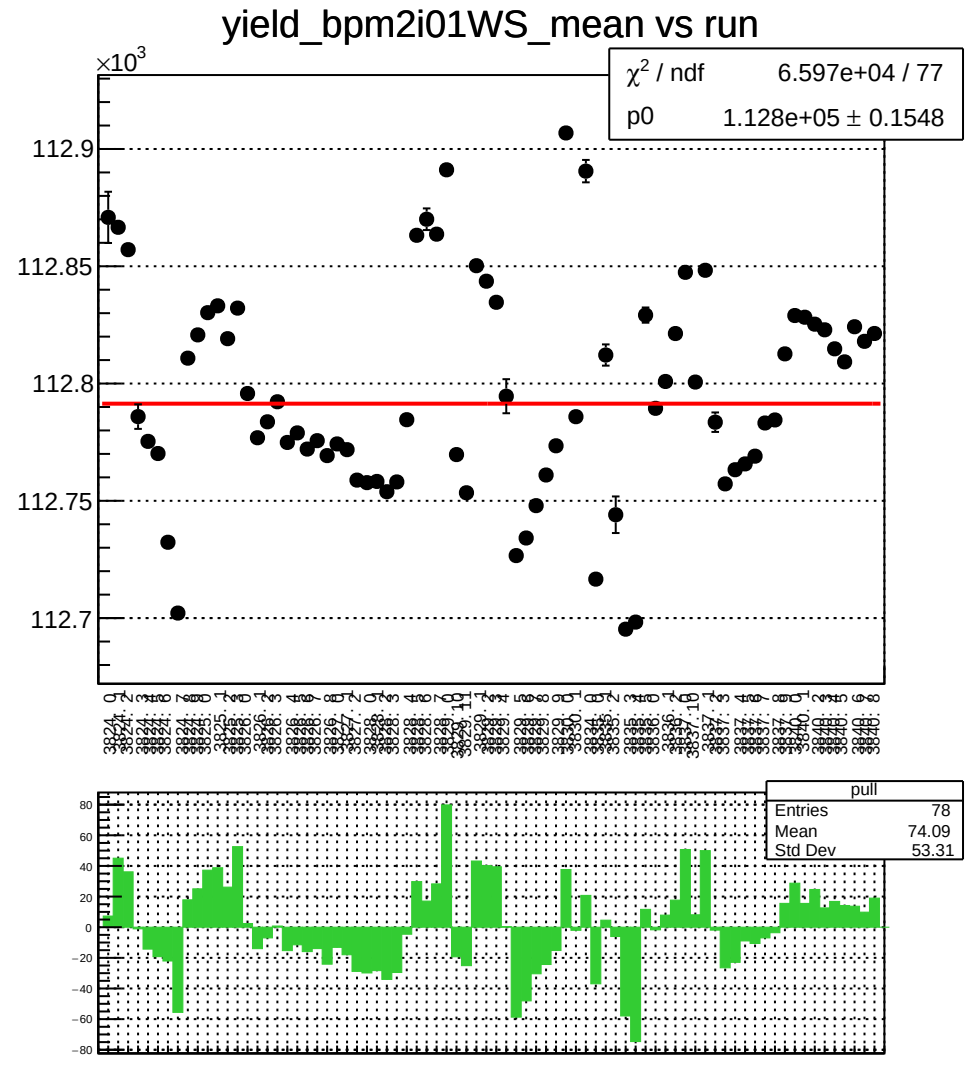

yield_cav4dQ_mean vs run
χ² / ndf 1.515e+05 / 77
p0 379 ± 8.008e−06
379.04
379.038
379.036
379.034
379.032
379.03
379.028
379.026
pull
Entries 78
Mean 759.7
Std Dev 710
120
100
80
60
40
20
0
−20
−40
−60
−80

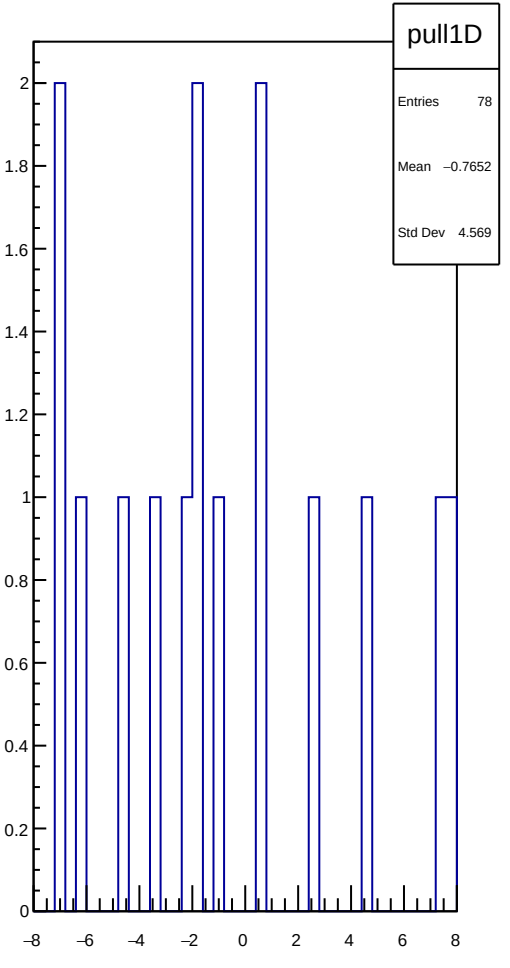

pull1D
Entries 78
Mean −1.016
Std Dev 4.843
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

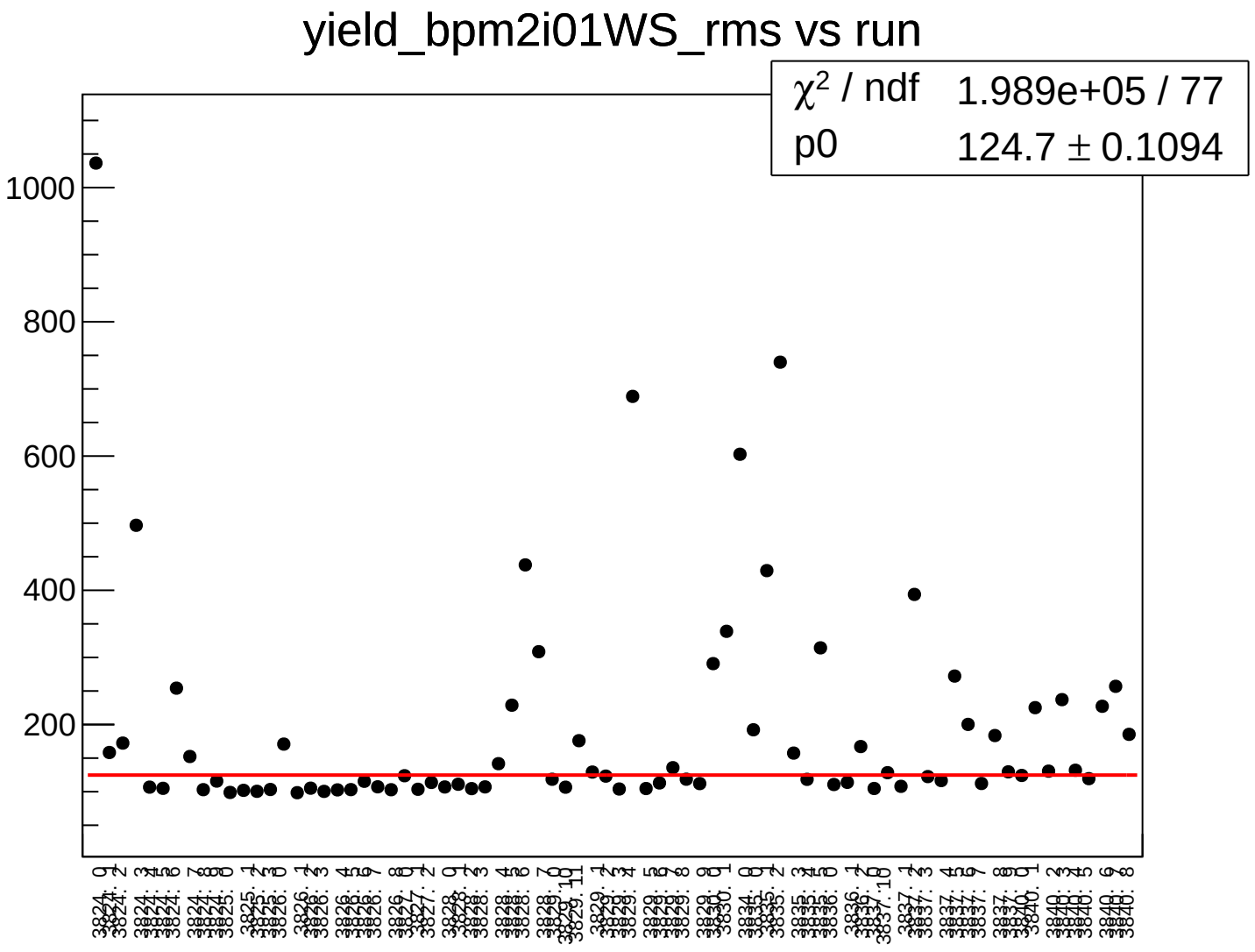

yield_cav4dQ_rms vs run
χ² / ndf 1103 / 77
p0 0.006928 ± 5.663e−06
0.0074
0.0072
0.007
0.0068
0.0066
0.0064

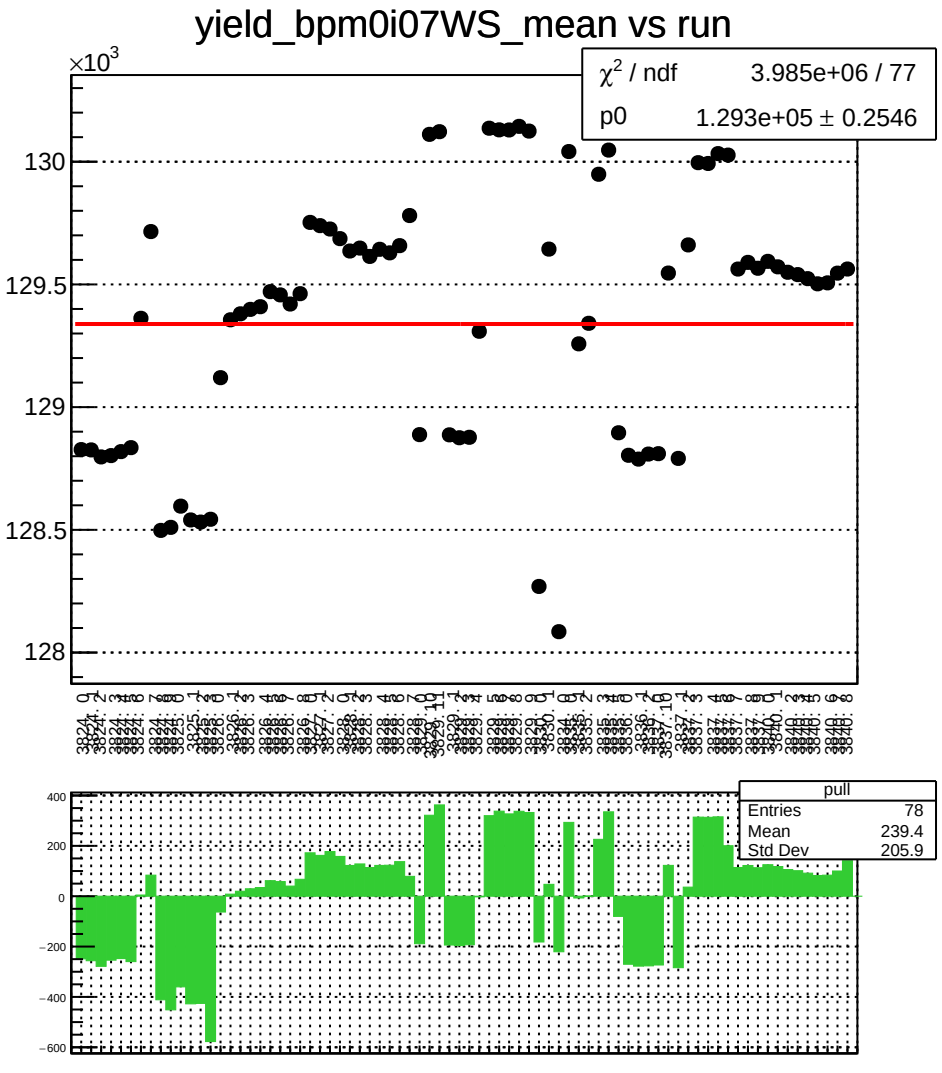

yield_bcm0l02_mean vs run
χ² / ndf 8.421e+08 / 77
p0 84.11± 0.0003999
pull
Entries 78
Mean −71.75
Std Dev 103
pull1D
Entries 78
Mean −7.979
Std Dev 0

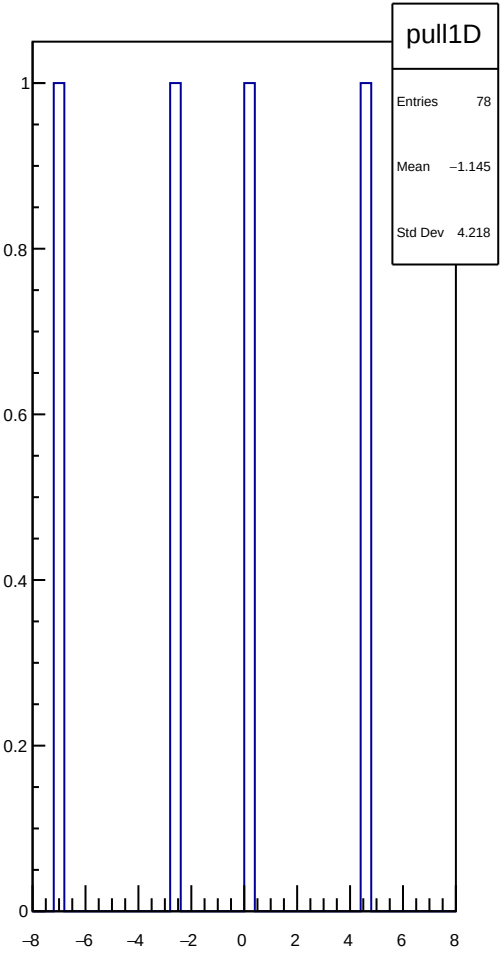

yield_bcm0l02_rms vs run
χ² / ndf 3.604e+05 / 77
p0 0.3016 ± 0.0002828
35
30
25
20
15
10
5

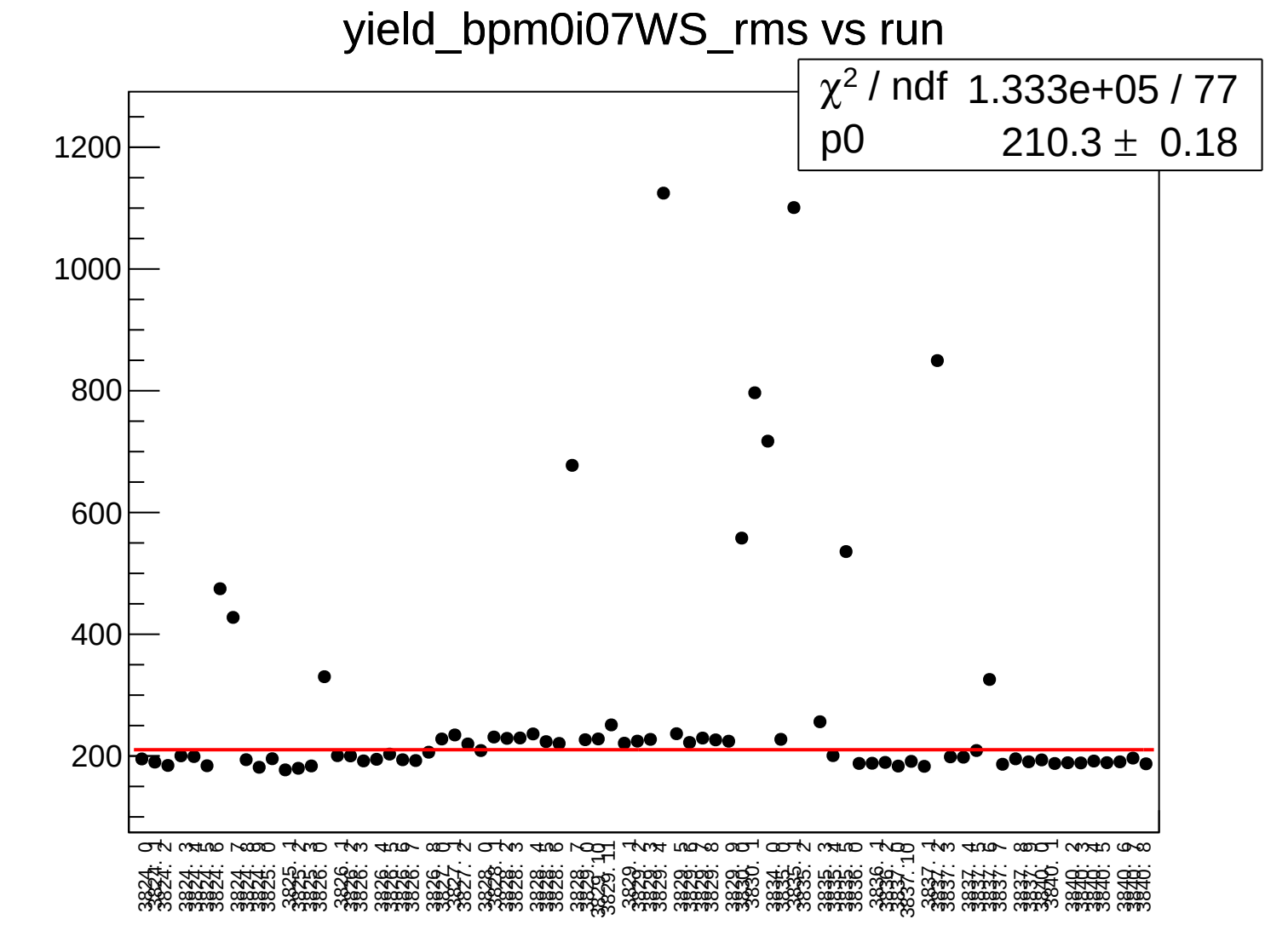

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 6.597e+04 / 77
p0 1.128e+05 ± 0.1548
112.9
112.85
112.8
112.75
112.7
pull
Entries 78
Mean 74.09
Std Dev 53.31
80
60
40
20
0
−20
−40
−60
−80

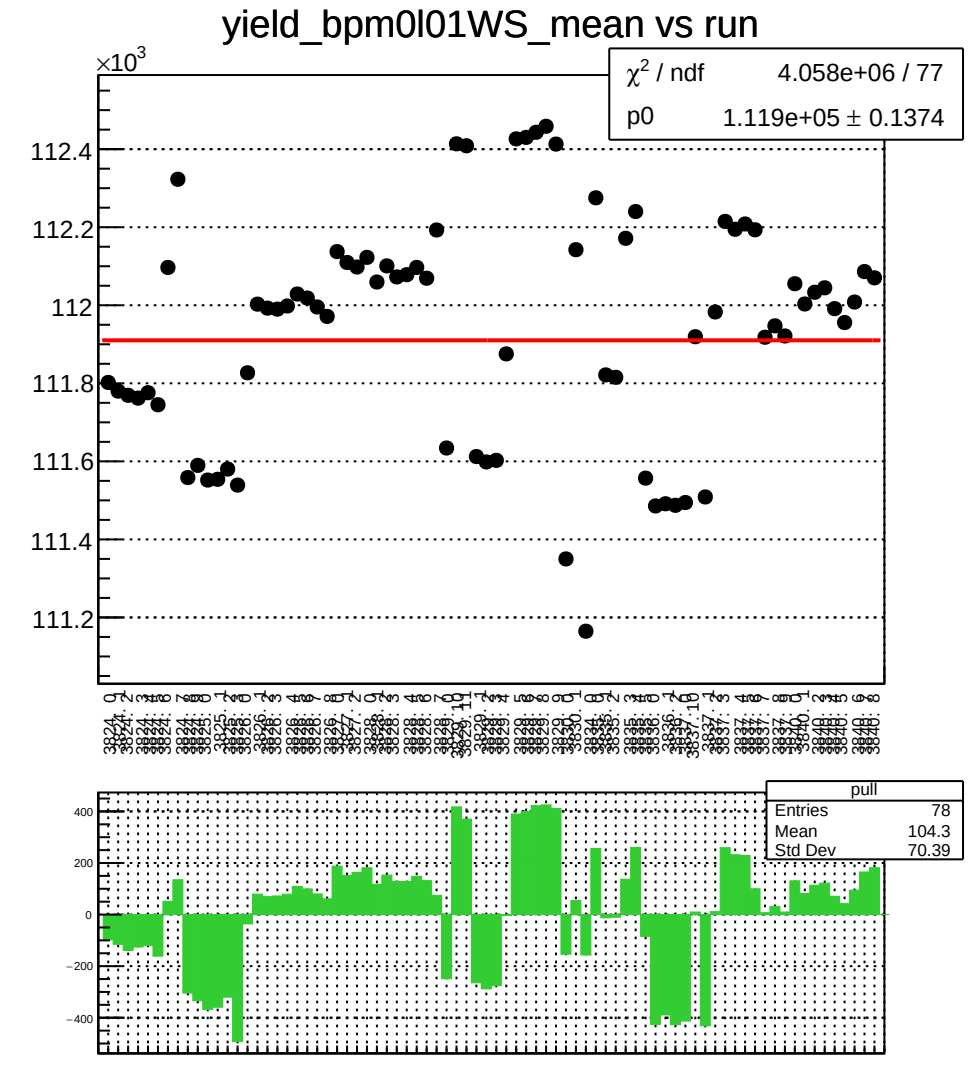

pull1D
Entries 78
Mean −0.7652
Std Dev 4.569
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

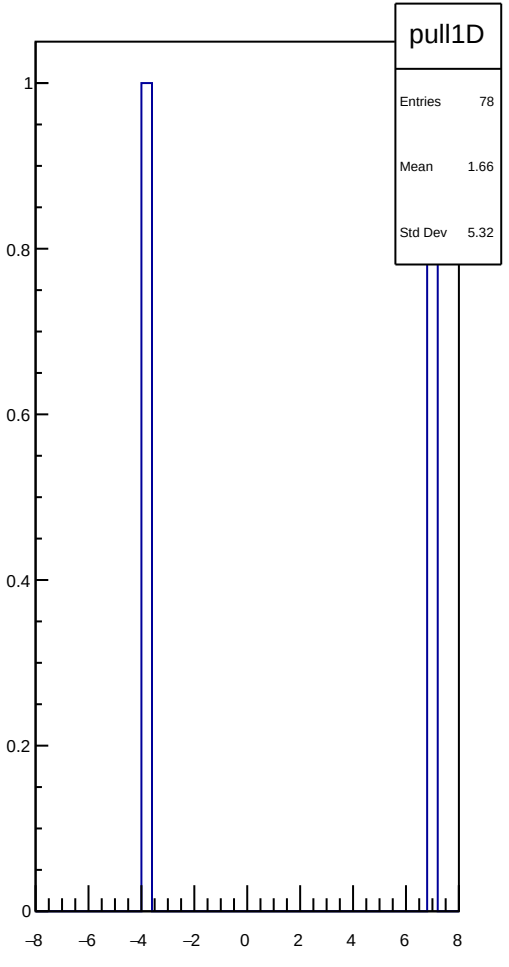

yield_bpm2i01WS_rms vs run
χ² / ndf 1.989e+05 / 77
p0 124.7 ± 0.1094
1000
800
600
400
200

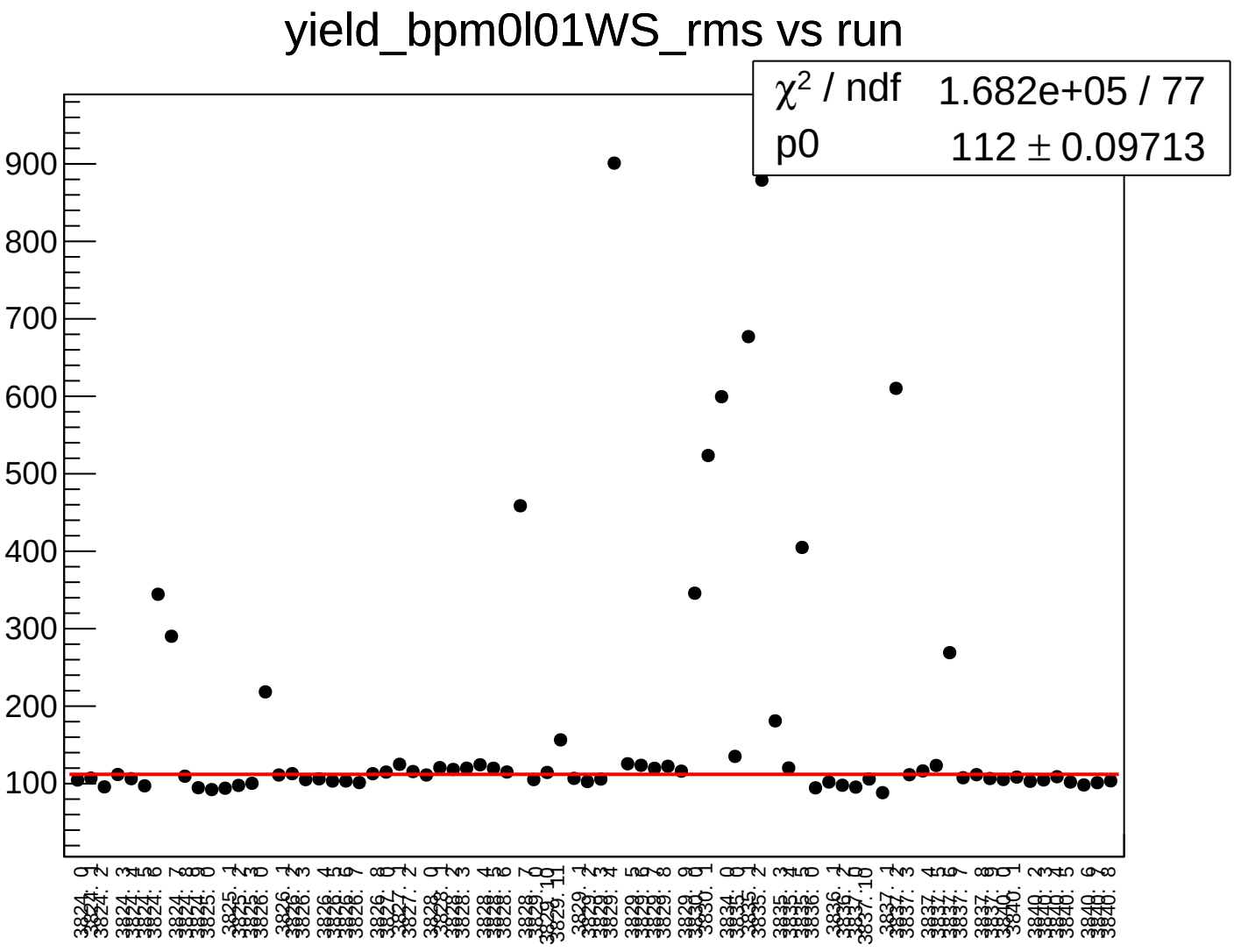

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 3.985e+06 / 77
p0 1.293e+05 ± 0.2546
130
129.5
129
128.5
128
pull
Entries 78
Mean 239.4
Std Dev 205.9
400
200
0
−200
−400
−600

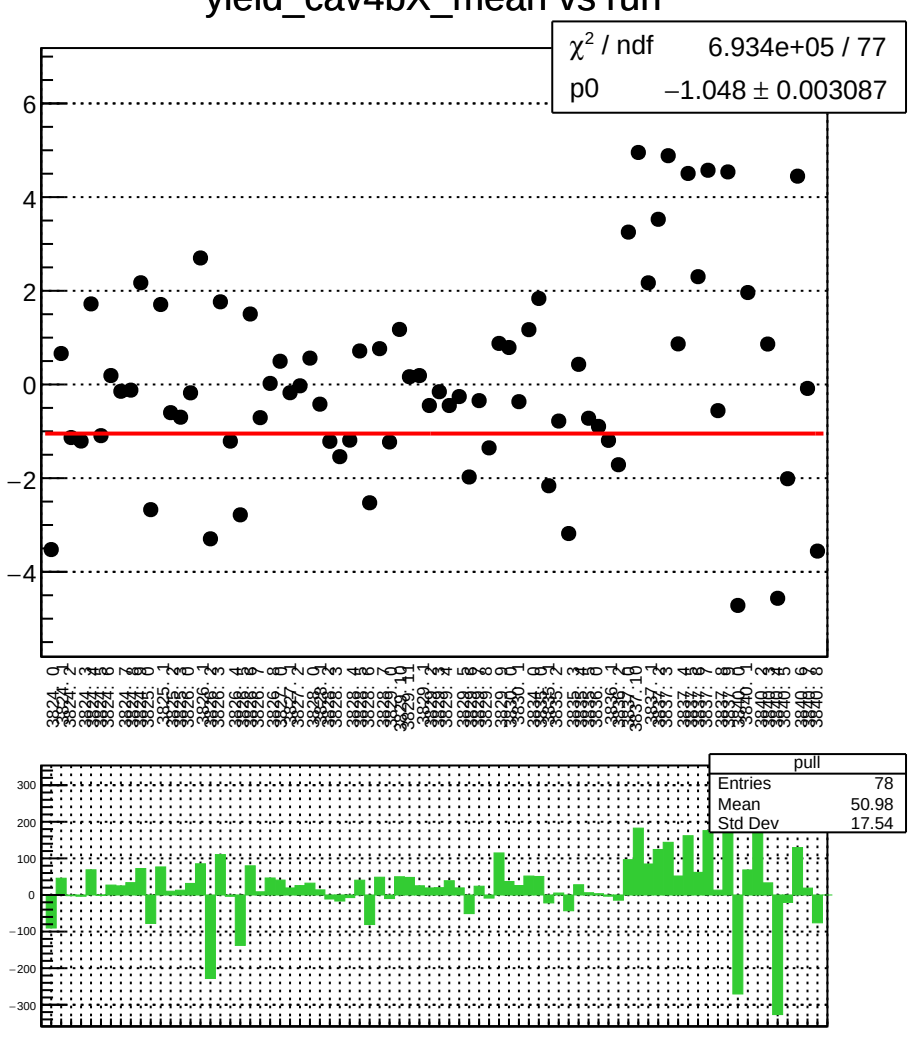

pull1D
Entries 78
Mean −1.145
Std Dev 4.218
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

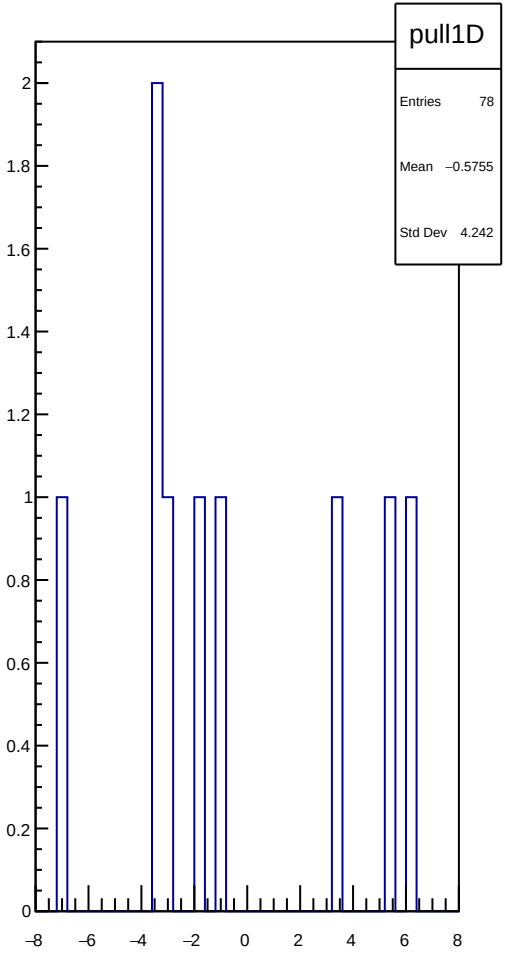

yield_bpm0i07WS_rms vs run
χ² / ndf 1.333e+05 / 77
p0 210.3 ± 0.18
1200
1000
800
600
400
200

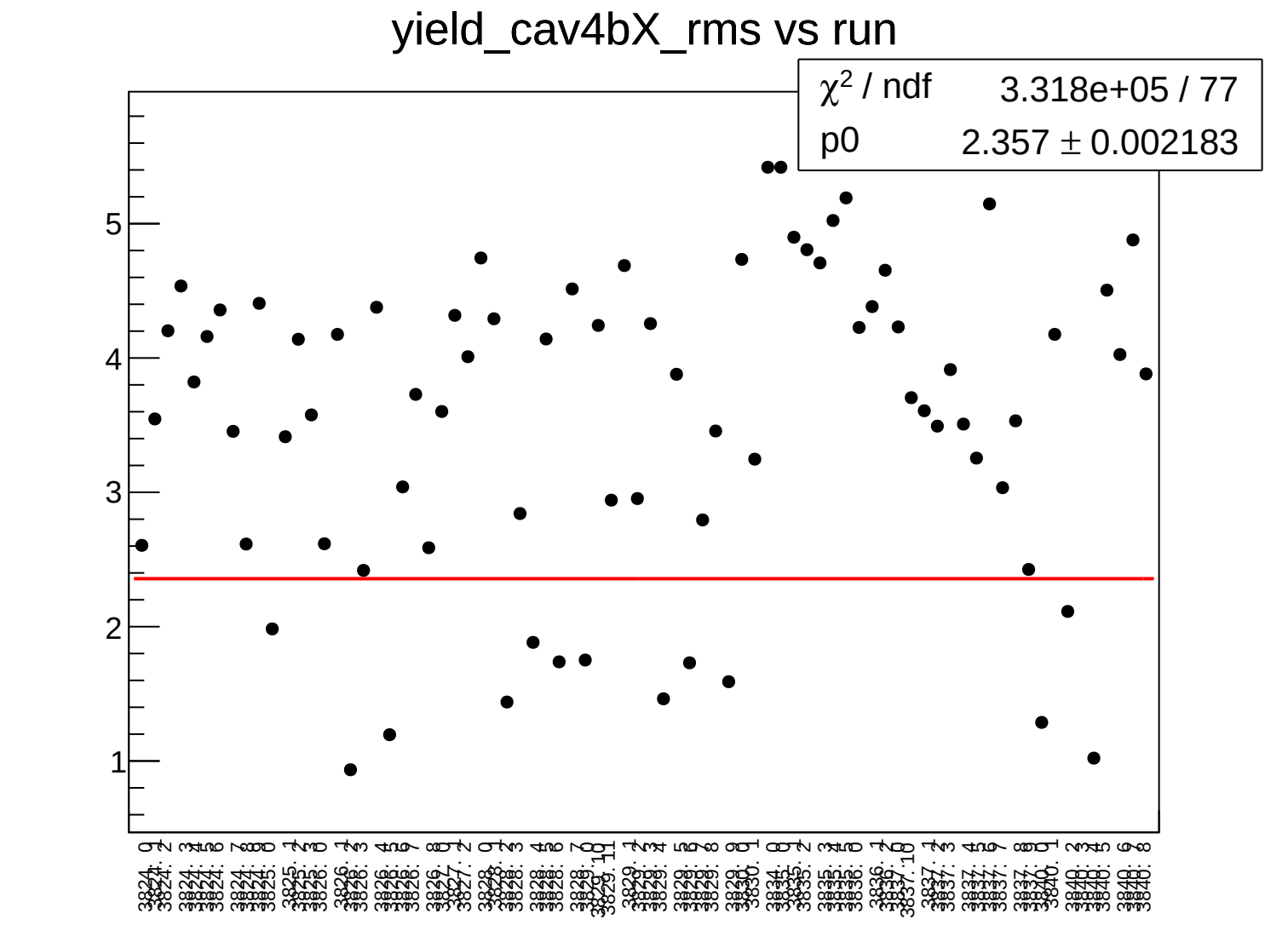

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 4.058e+06 / 77
p0 1.119e+05 ± 0.1374
112.4
112.2
112
111.8
111.6
111.4
111.2
pull
Entries 78
Mean 104.3
Std Dev 70.39
400
200
0
−200
−400

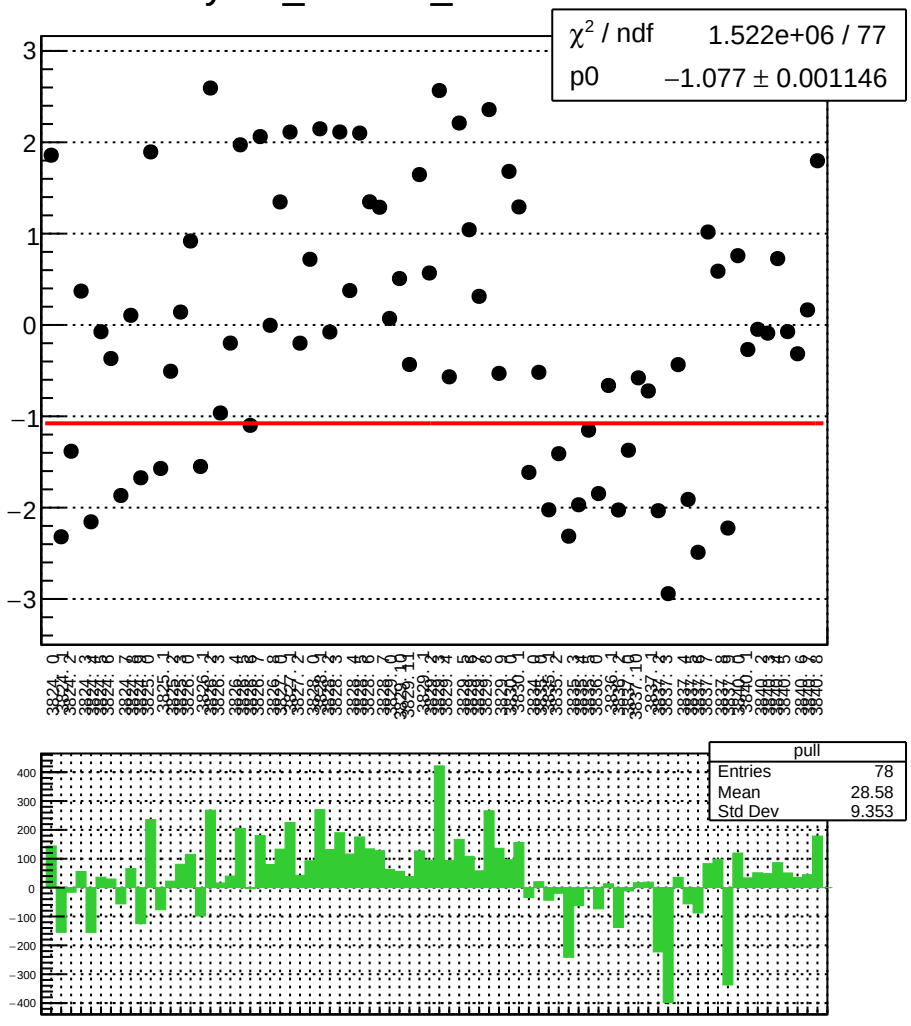

pull1D
Entries 78
Mean 1.66
Std Dev 5.32
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

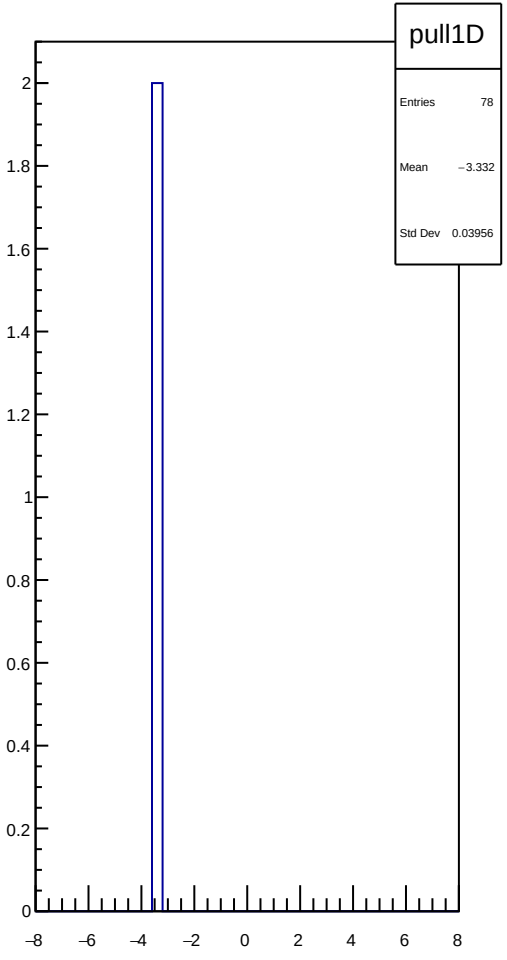

yield_bpm0l01WS_rms vs run
χ² / ndf 1.682e+05 / 77
p0 112 ± 0.09713
900
800
700
600
500
400
300
200
100

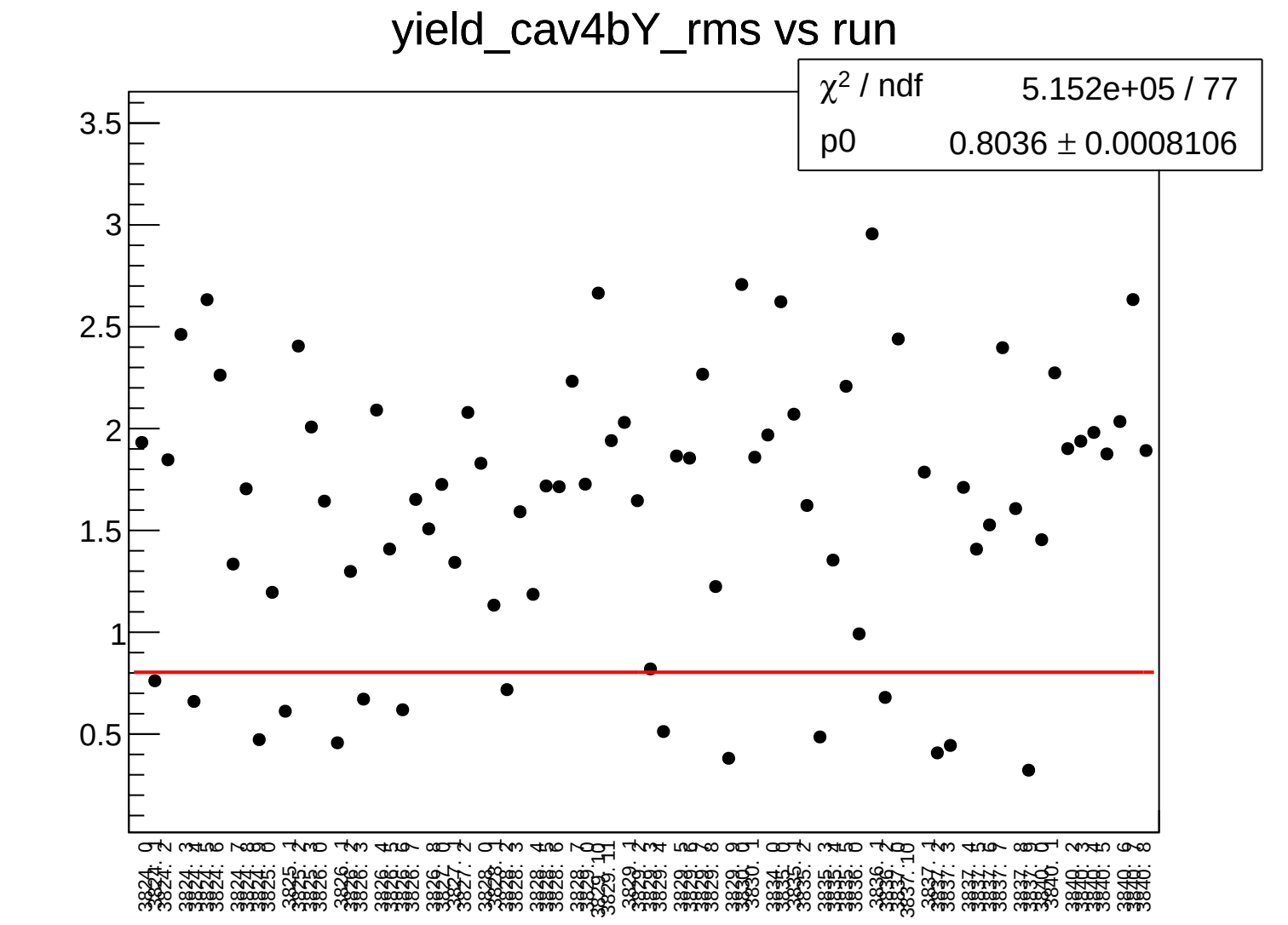

yield_cav4bX_mean vs run
χ² / ndf 6.934e+05 / 77
p0 −1.048 ± 0.003087
pull
Entries 78
Mean 50.98
Std Dev 17.54

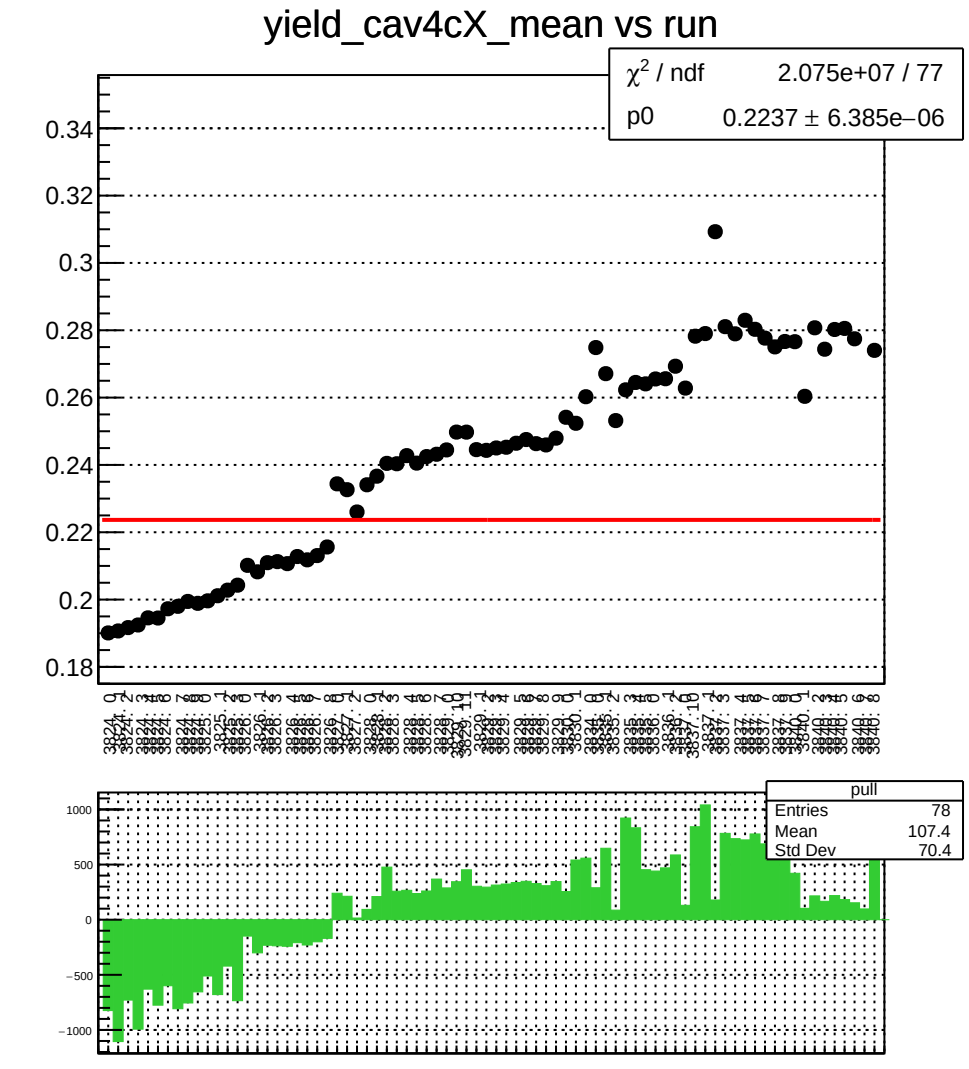

pull1D
Entries 78
Mean −0.5755
Std Dev 4.242

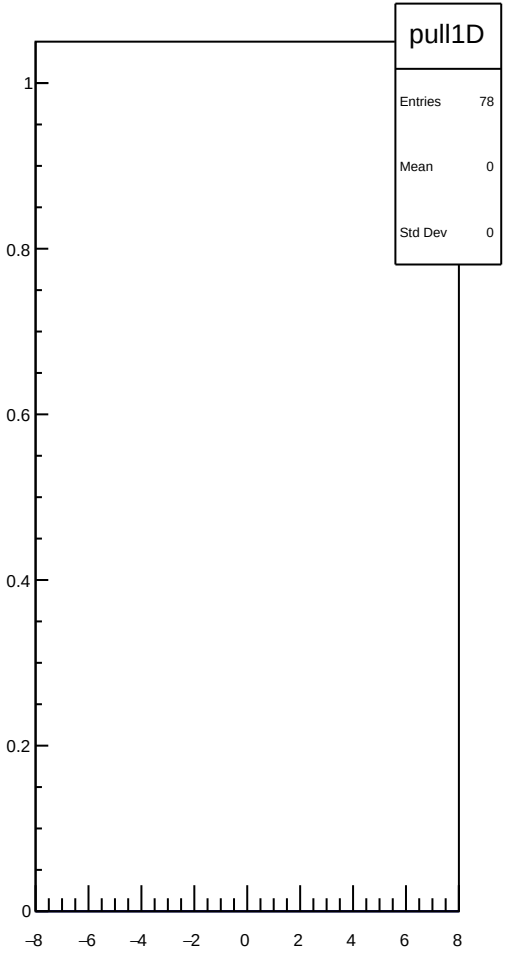

yield_cav4bX_rms vs run
χ^2 / ndf 3.318e+05 / 77
p0 2.357 ± 0.002183
5
4
3
2
1

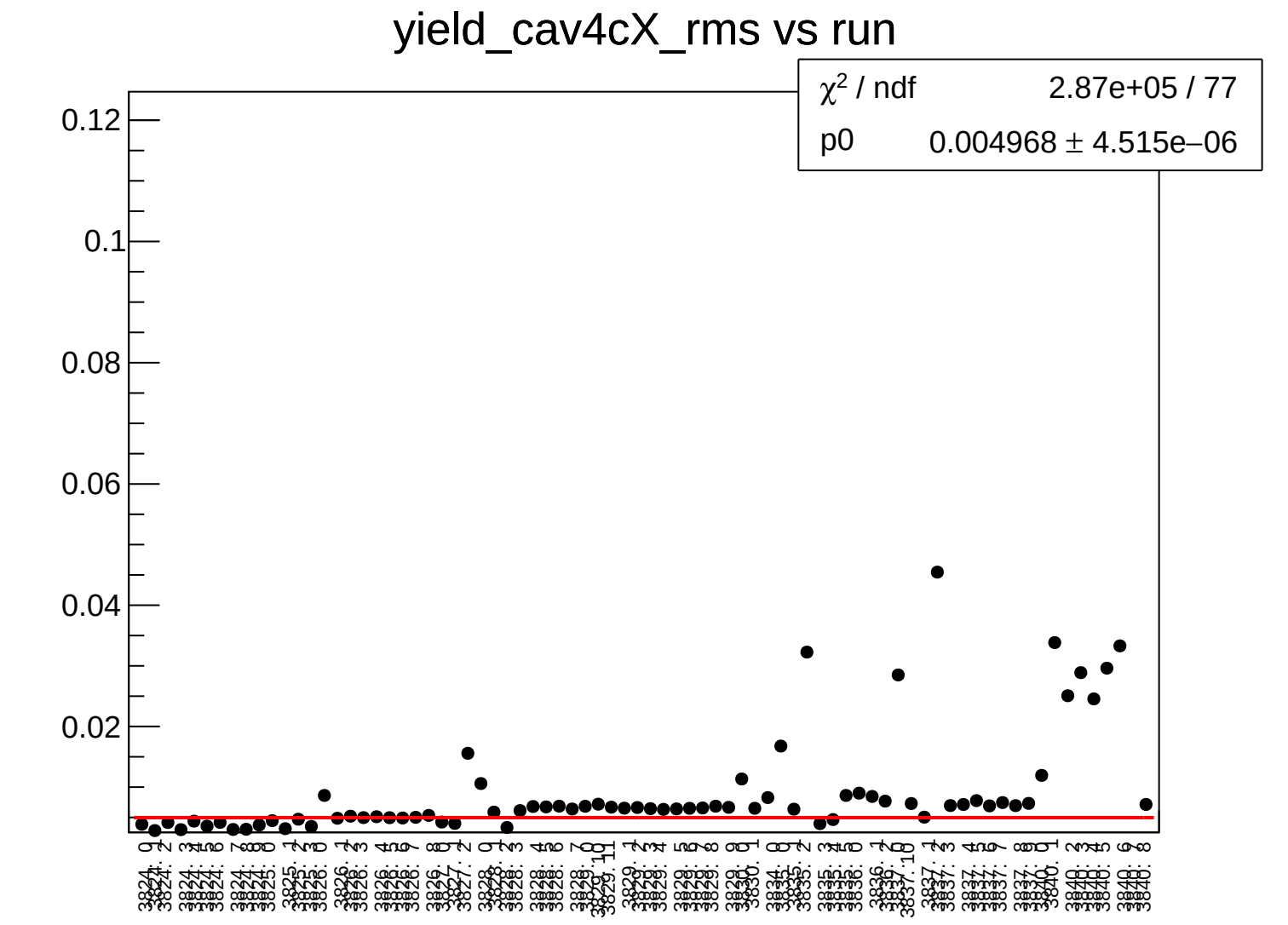

yield_cav4bY_mean vs run
χ² / ndf 1.522e+06 / 77
p0 −1.077 ± 0.001146
pull
Entries 78
Mean 28.58
Std Dev 9.353

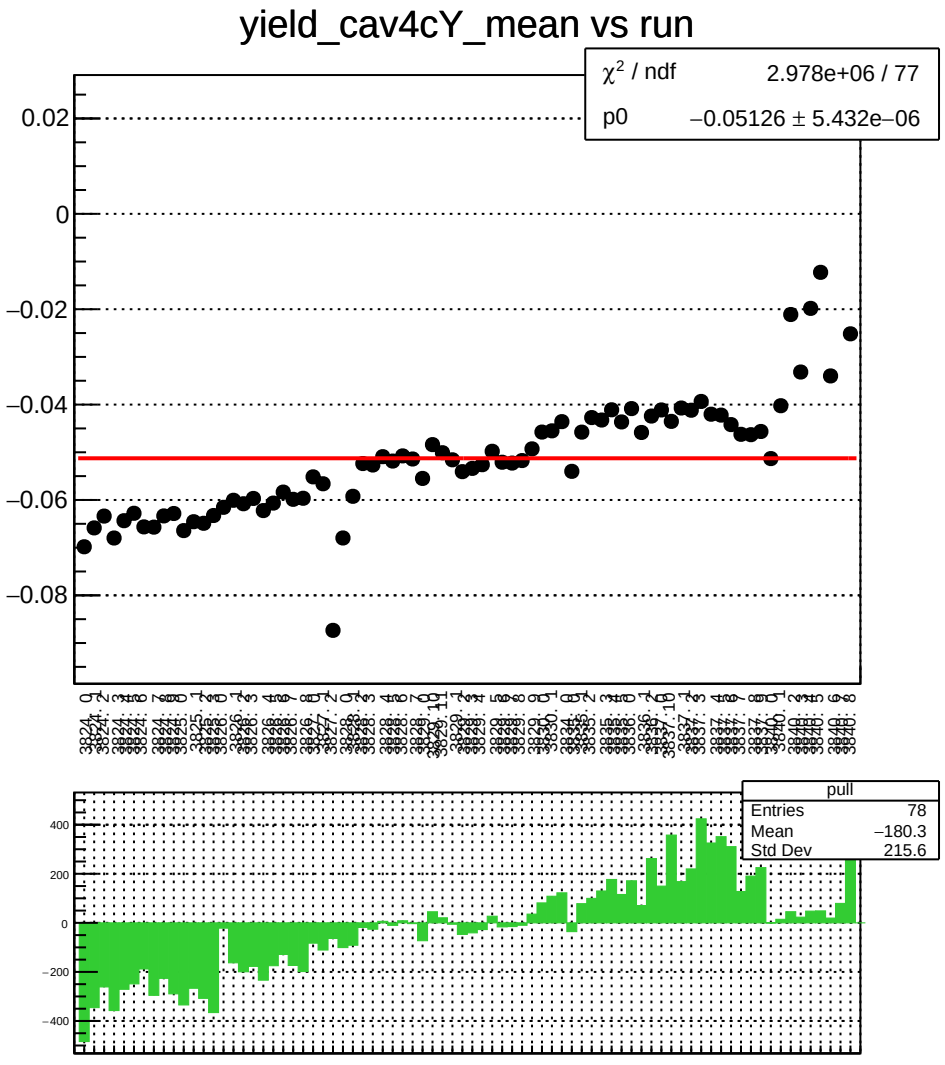

pull1D
Entries 78
Mean −3.332
Std Dev 0.03956

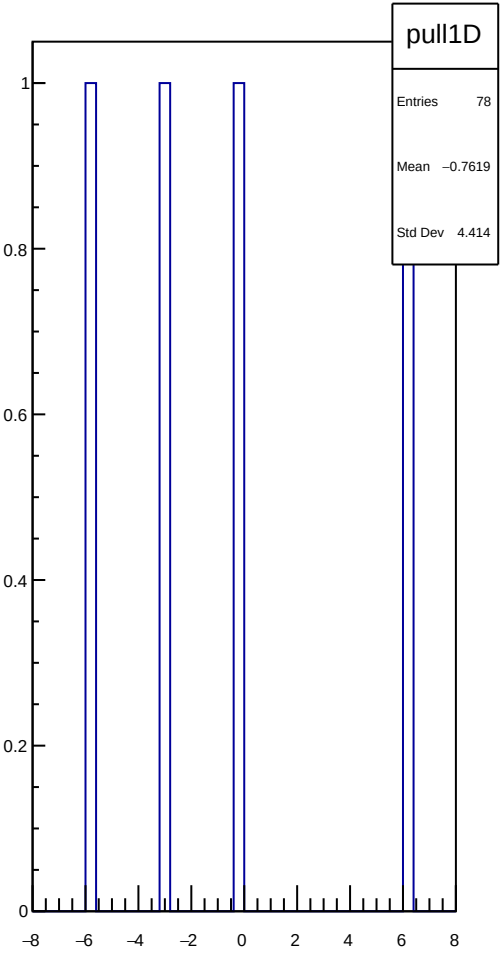

yield_cav4bY_rms vs run
χ² / ndf 5.152e+05 / 77
p0 0.8036 ± 0.0008106
3.5
3
2.5
2
1.5
1
0.5

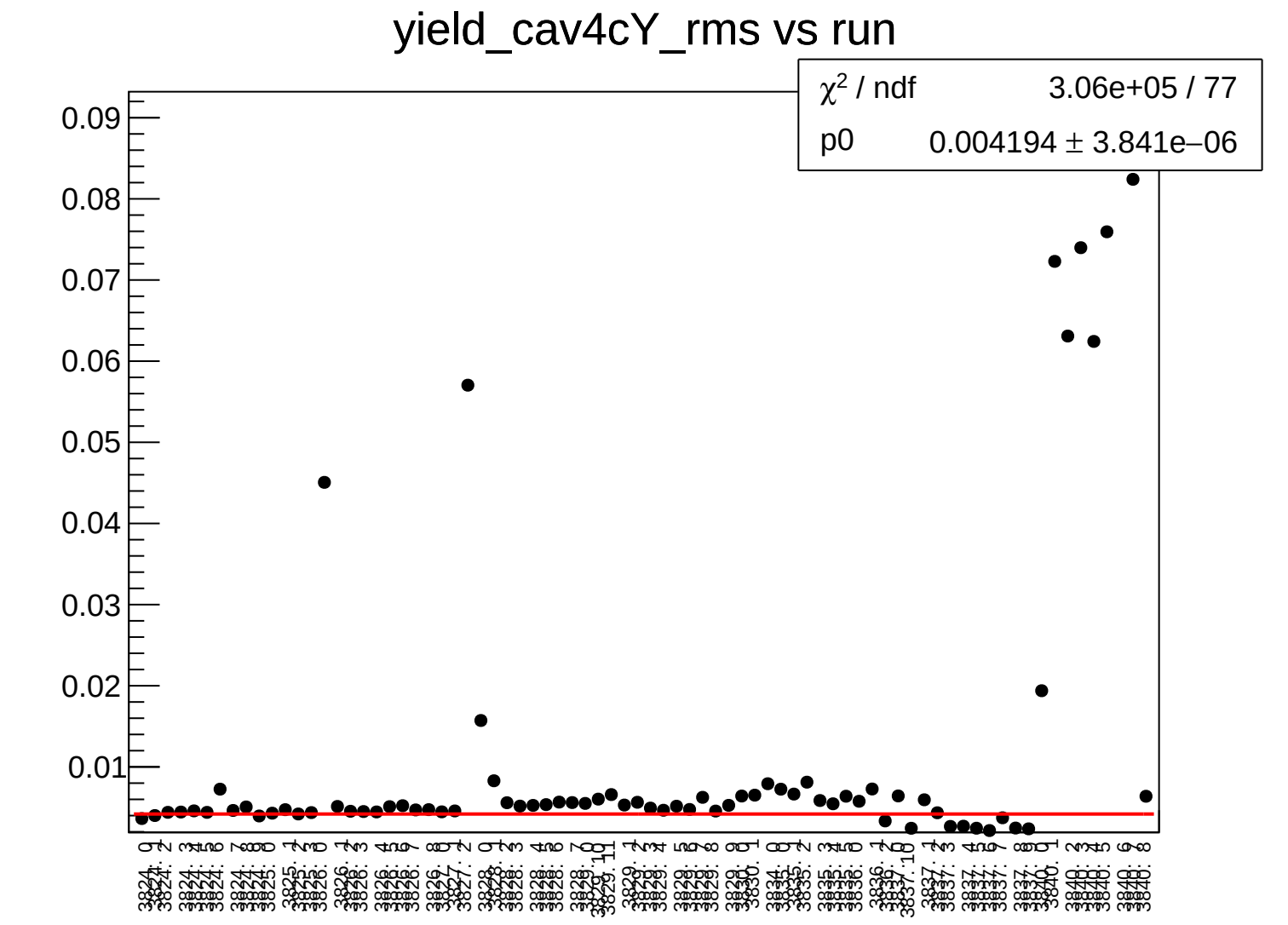

yield_cav4cX_mean vs run
χ² / ndf 2.075e+07 / 77
p0 0.2237 ± 6.385e−06
pull
Entries 78
Mean 107.4
Std Dev 70.4

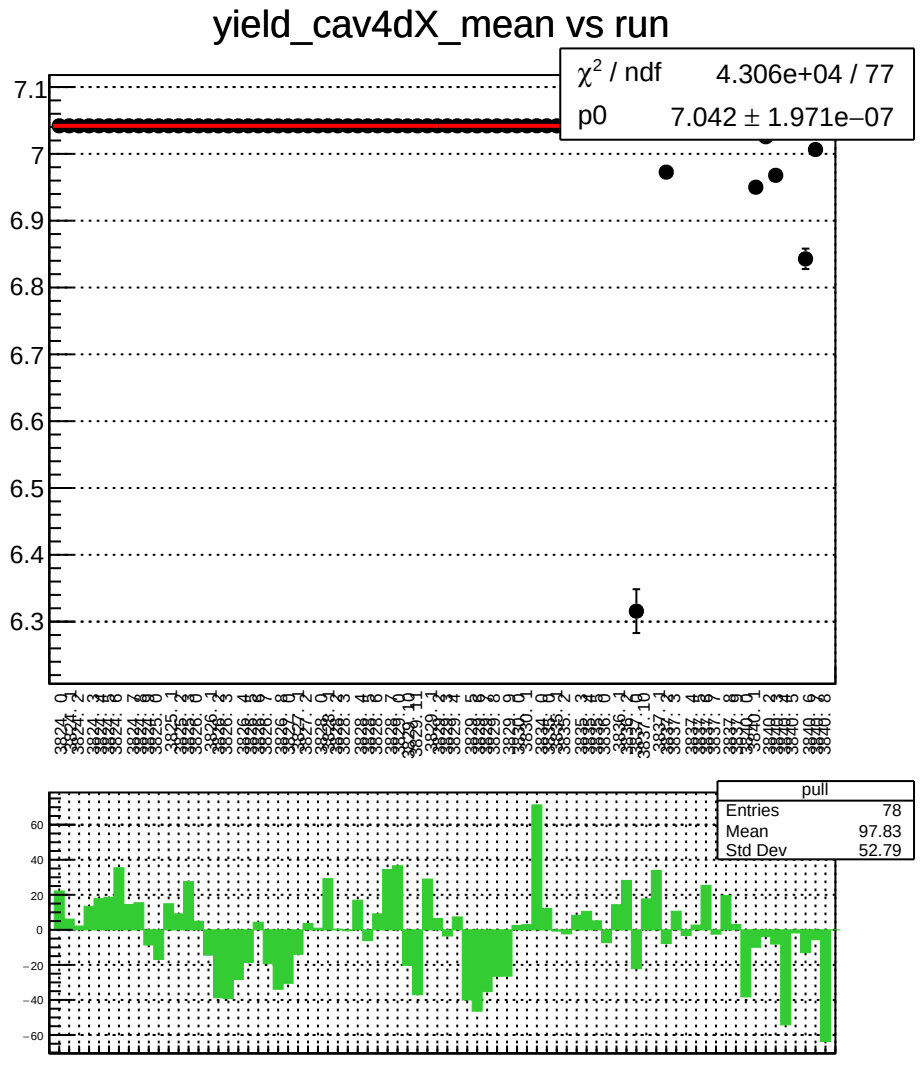

pull1D
Entries 78
Mean 0
Std Dev 0

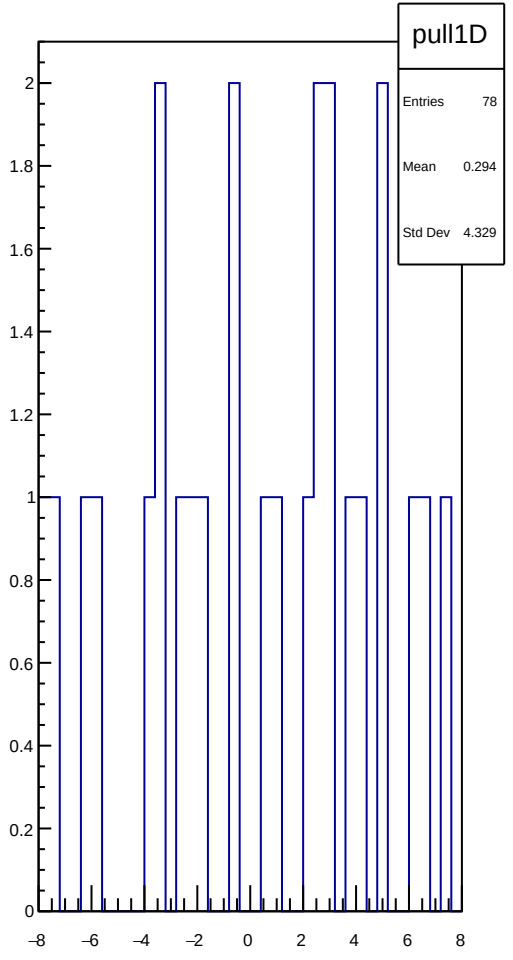

yield_cav4cX_rms vs run
χ² / ndf 2.87e+05 / 77
p0 0.004968 ± 4.515e−06
0.12
0.1
0.08
0.06
0.04
0.02

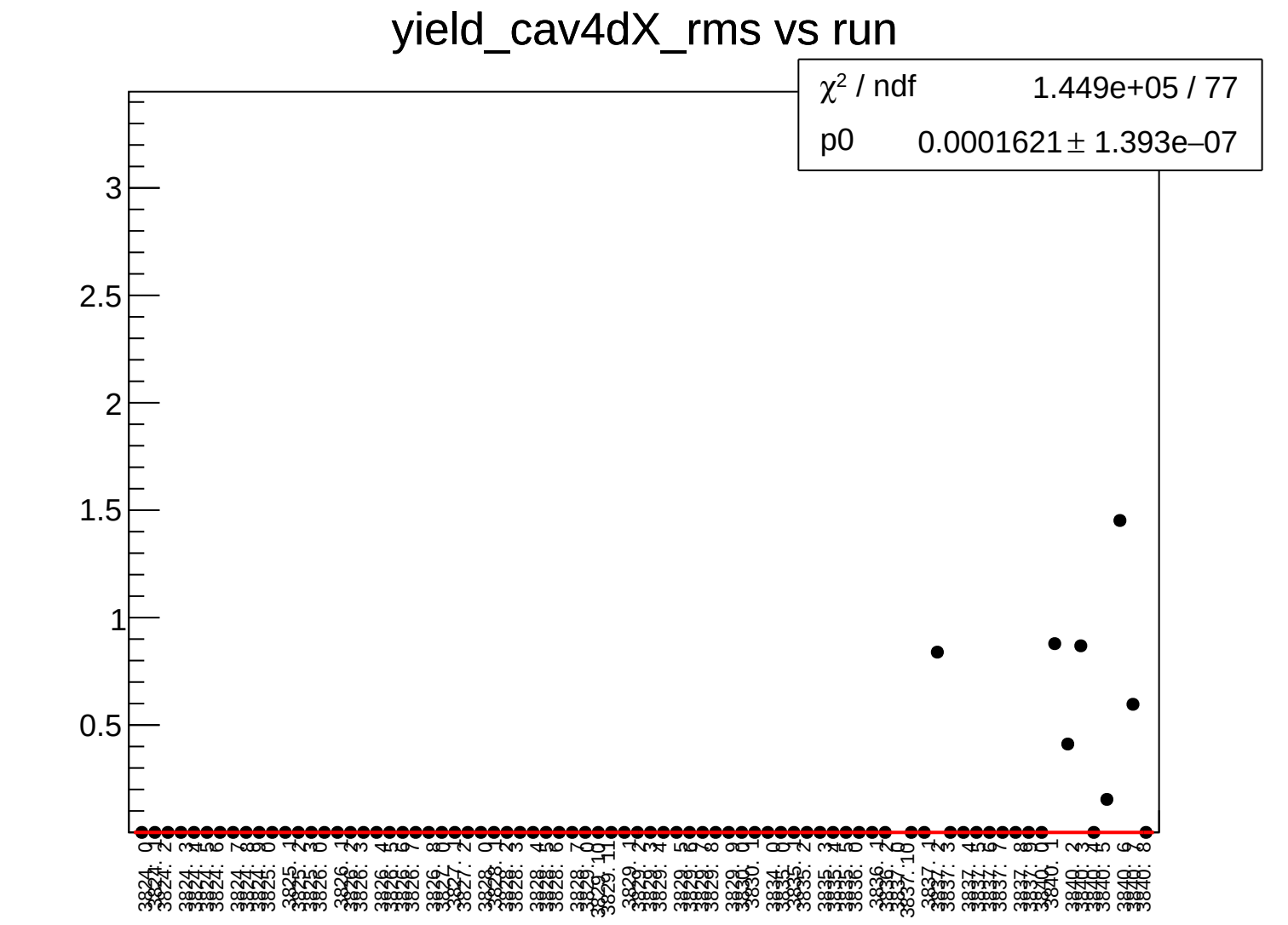

yield_cav4cY_mean vs run
χ² / ndf 2.978e+06 / 77
p0 −0.05126 ± 5.432e−06
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 78
Mean −180.3
Std Dev 215.6
400
200
0
−200
−400

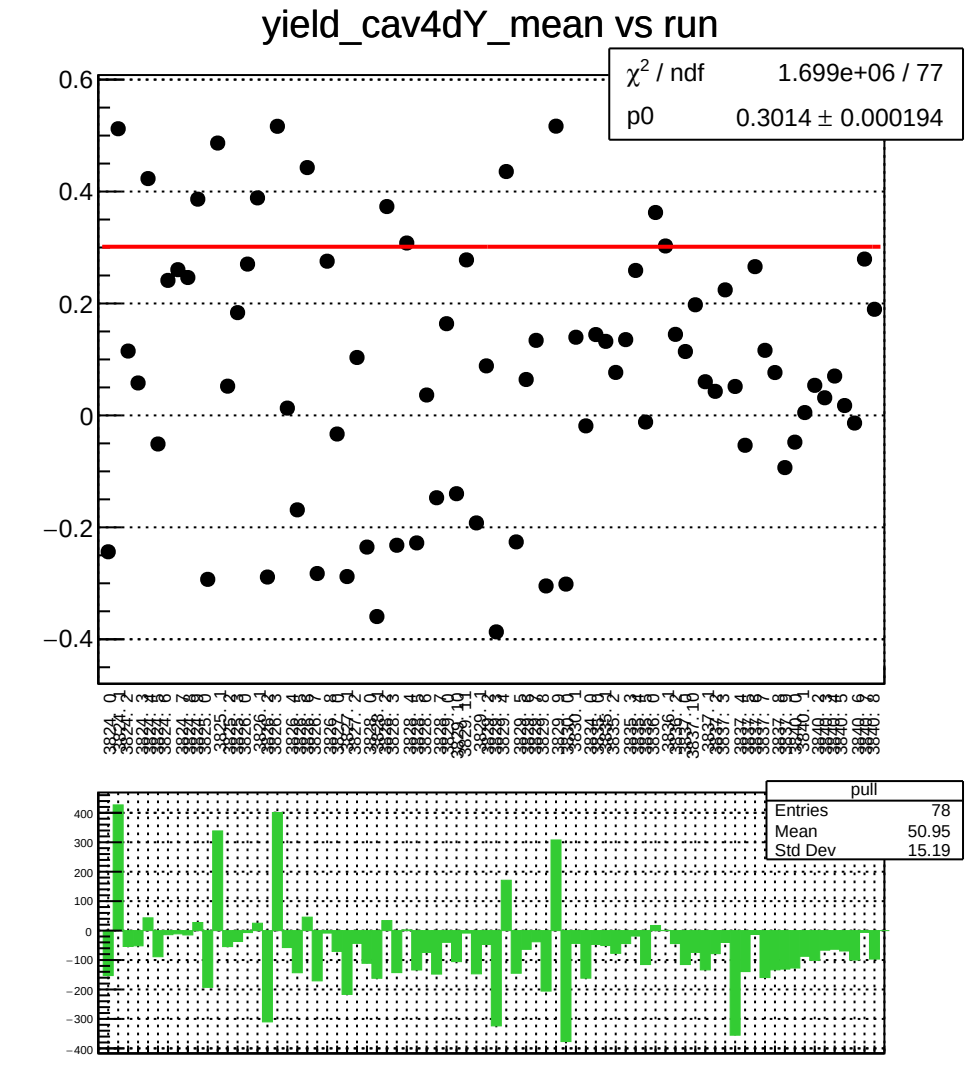

pull1D
Entries 78
Mean −0.7619
Std Dev 4.414
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

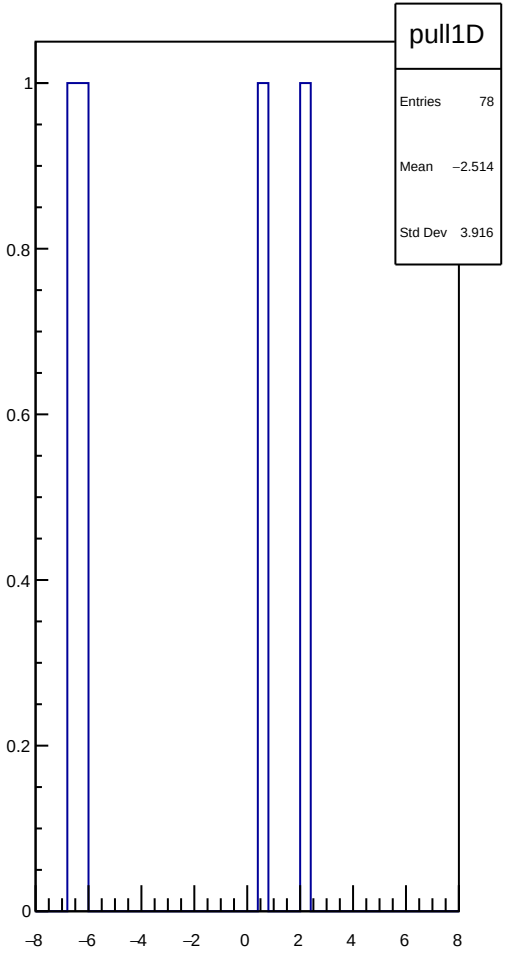

yield_cav4cY_rms vs run
χ² / ndf 3.06e+05 / 77
p0 0.004194 ± 3.841e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

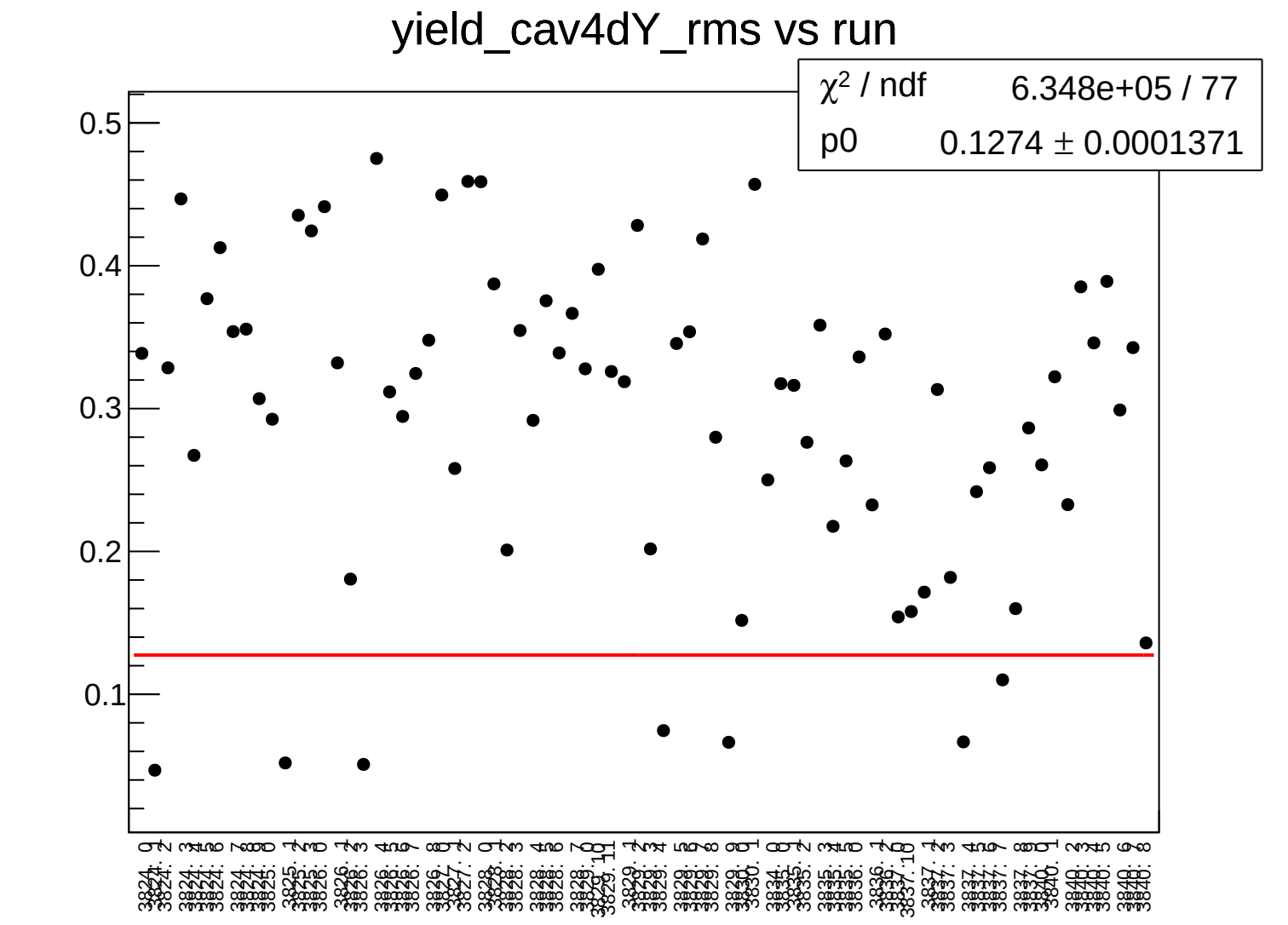

yield_cav4dX_mean vs run
χ² / ndf 4.306e+04 / 77
p0 7.042 ± 1.971e−07
pull
Entries 78
Mean 97.83
Std Dev 52.79

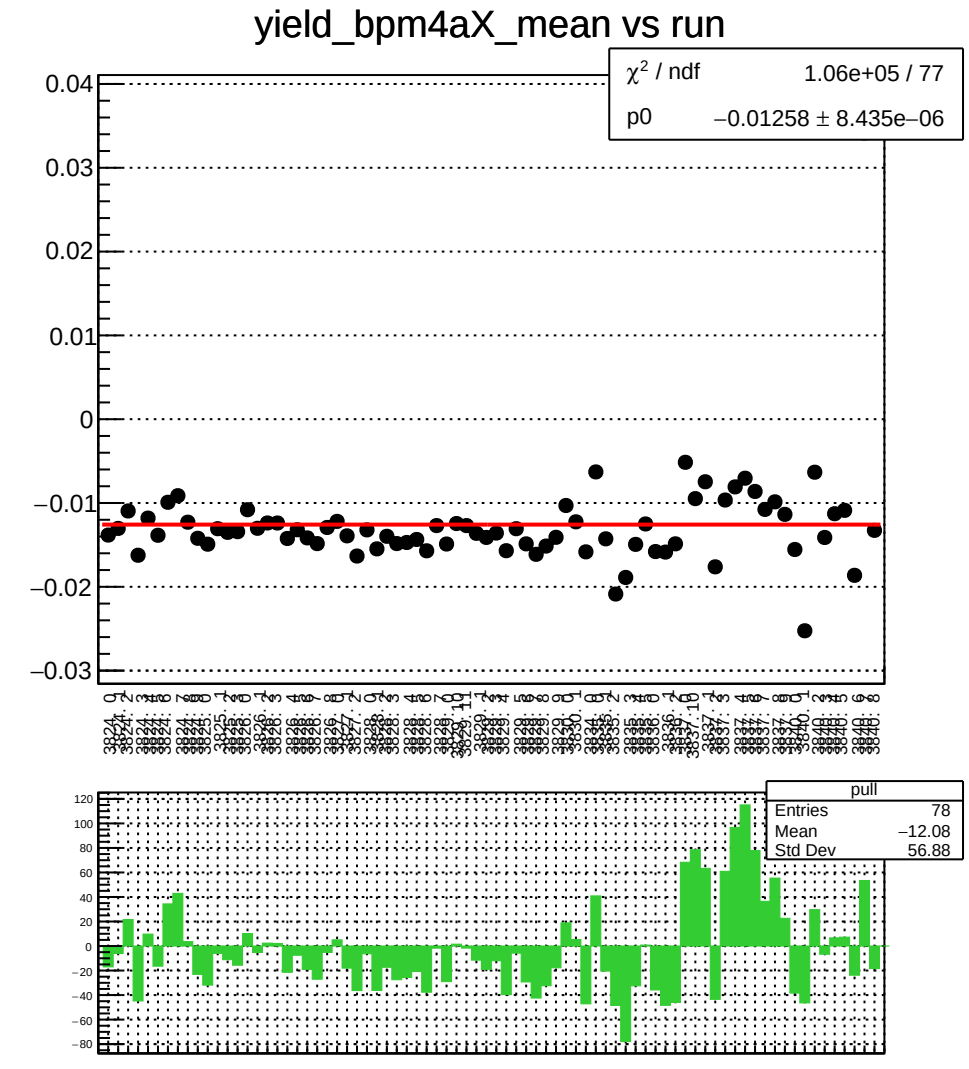

pull1D
Entries 78
Mean 0.294
Std Dev 4.329

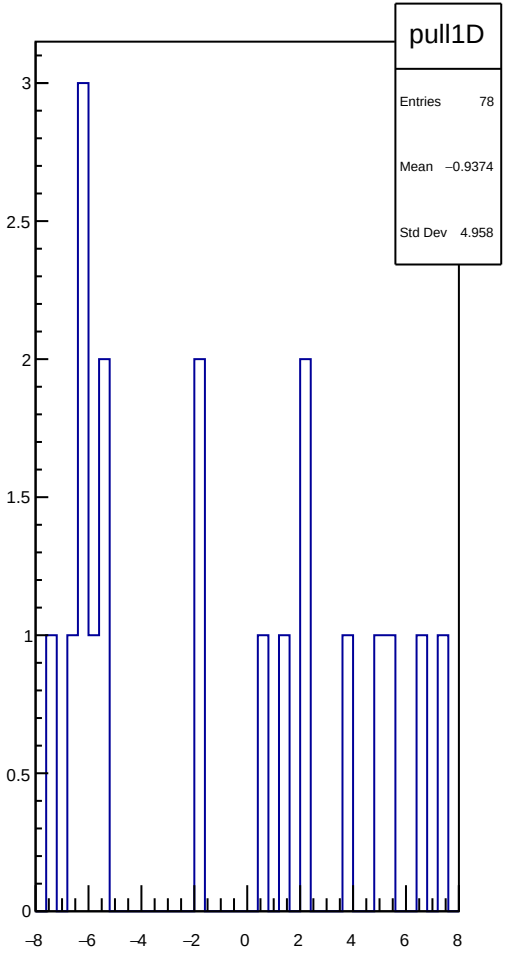

yield_cav4dX_rms vs run
χ² / ndf 1.449e+05 / 77
p0 0.0001621 ± 1.393e−07
3
2.5
2
1.5
1
0.5

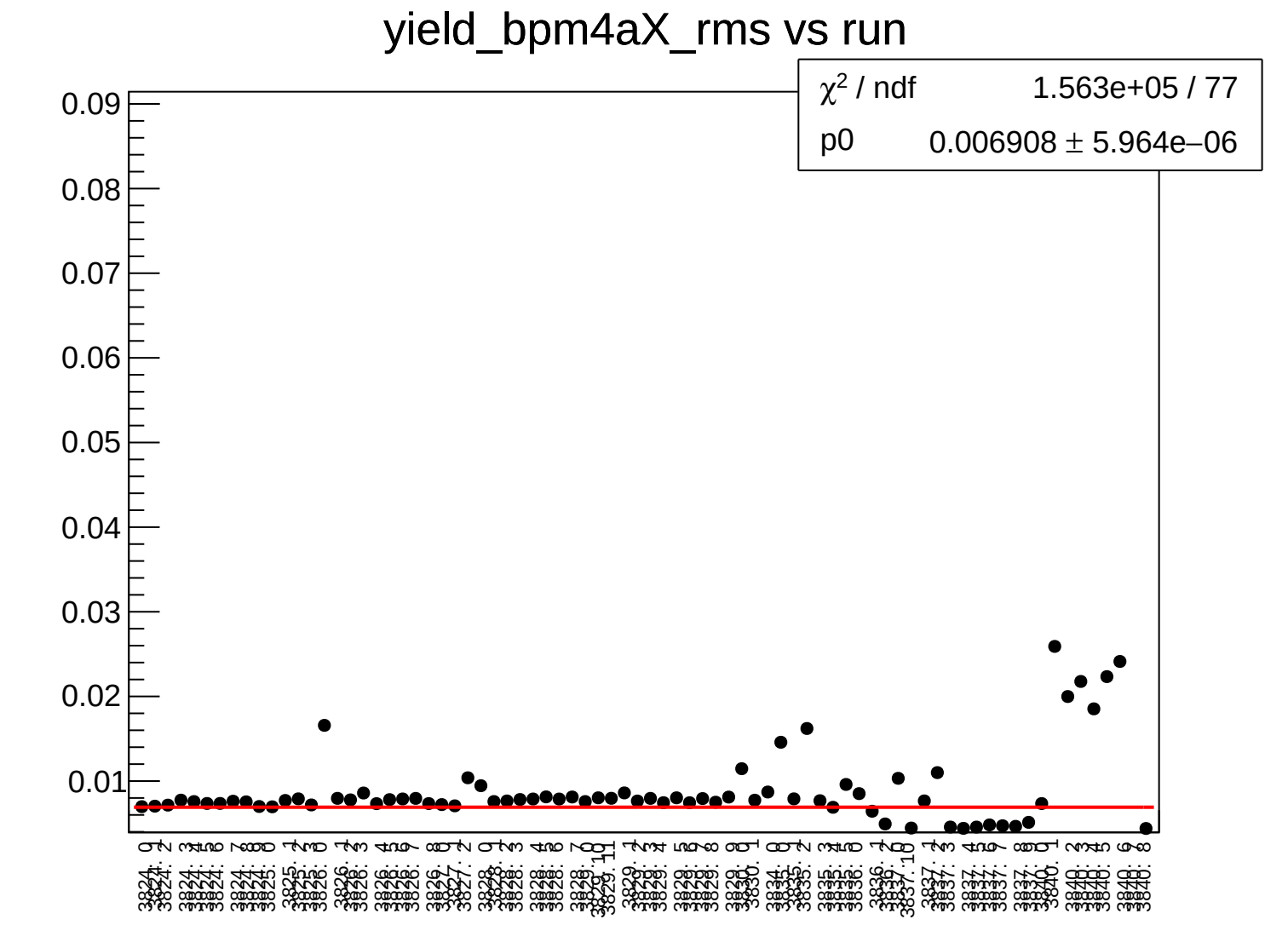

yield_cav4dY_mean vs run
χ² / ndf 1.699e+06 / 77
p0 0.3014 ± 0.000194
pull
Entries 78
Mean 50.95
Std Dev 15.19

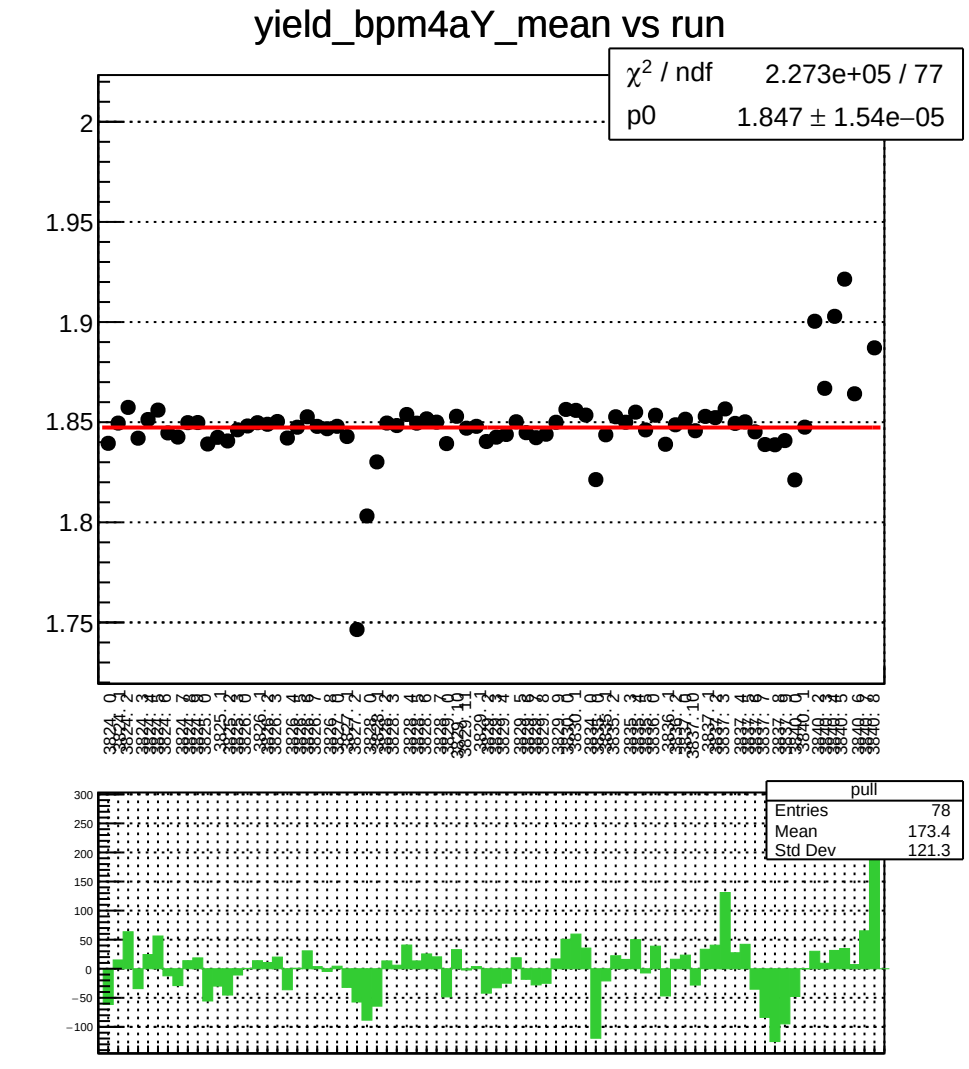

pull1D
Entries 78
Mean −2.514
Std Dev 3.916

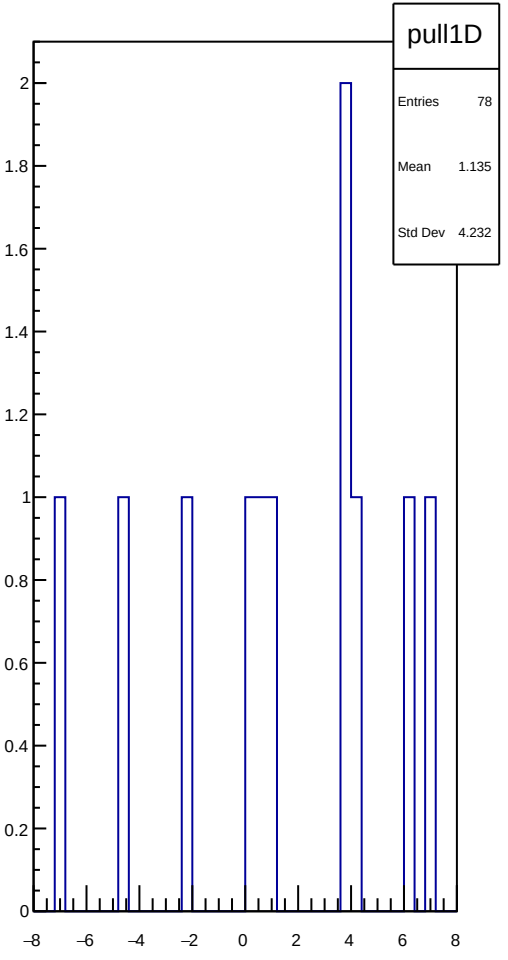

yield_cav4dY_rms vs run
χ² / ndf 6.348e+05 / 77
p0 0.1274 ± 0.0001371
0.5
0.4
0.3
0.2
0.1

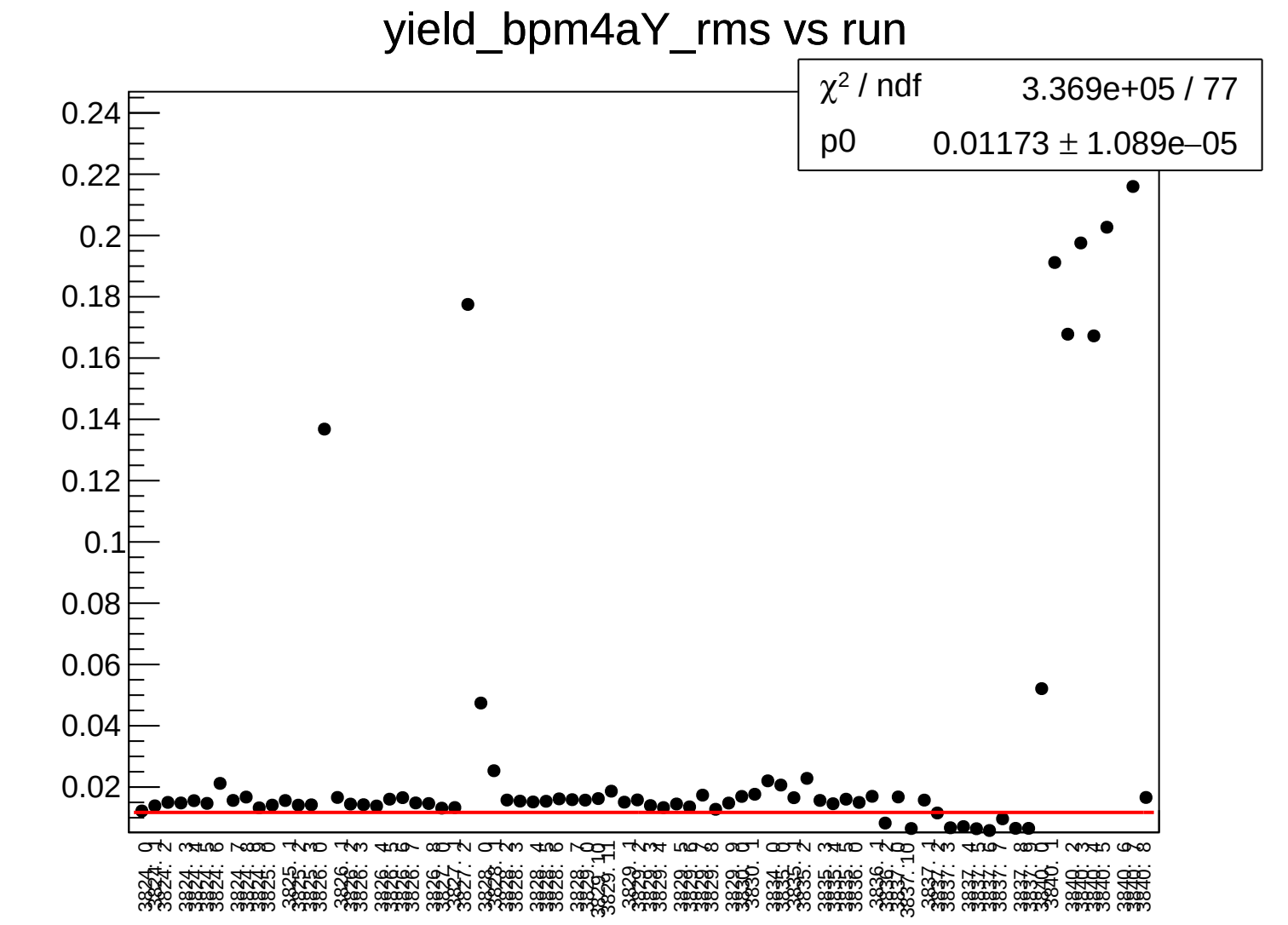

yield_bpm4aX_mean vs run
χ² / ndf 1.06e+05 / 77
p0 −0.01258 ± 8.435e−06
pull
Entries 78
Mean −12.08
Std Dev 56.88

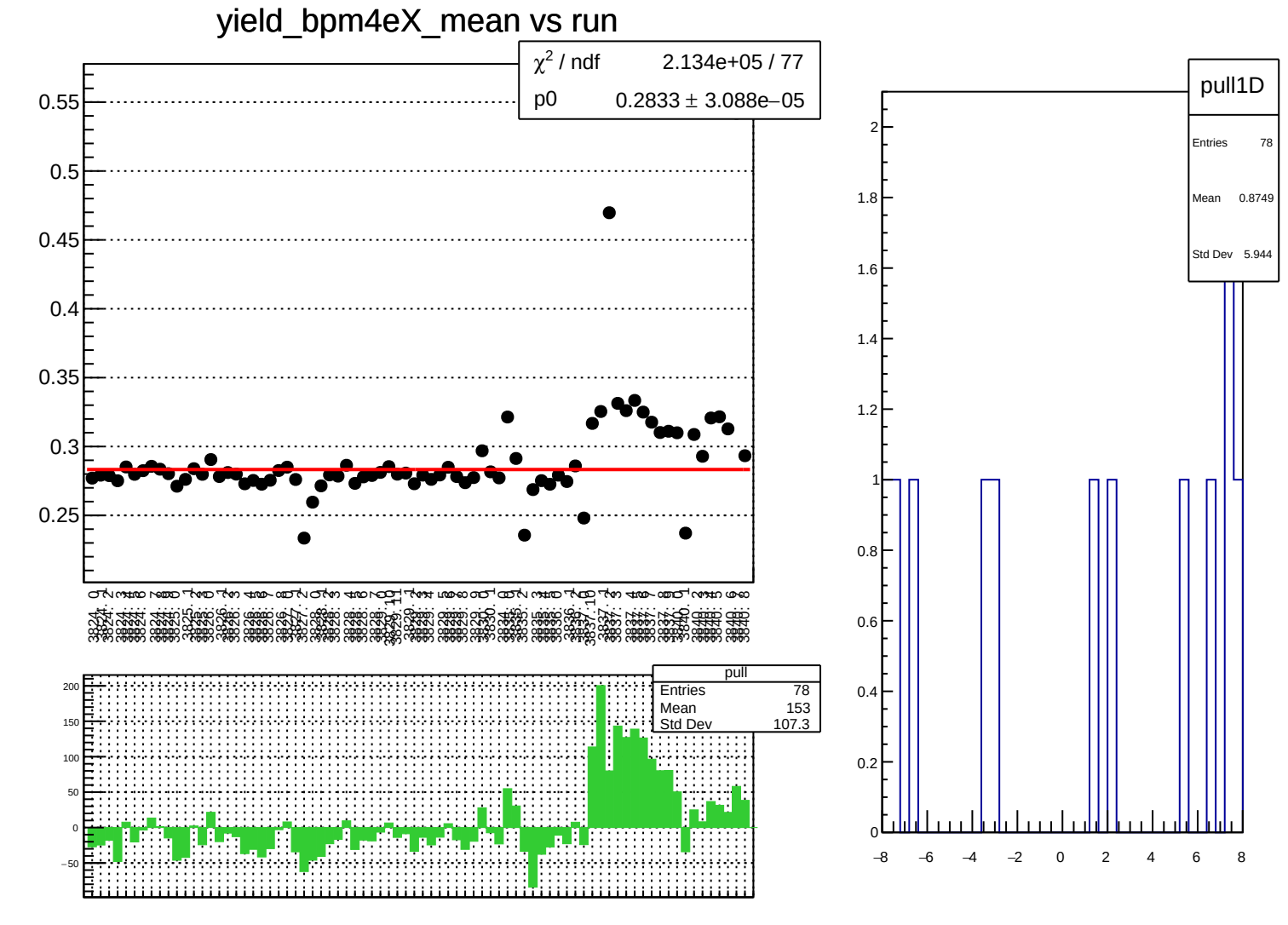

pull1D
Entries 78
Mean −0.9374
Std Dev 4.958

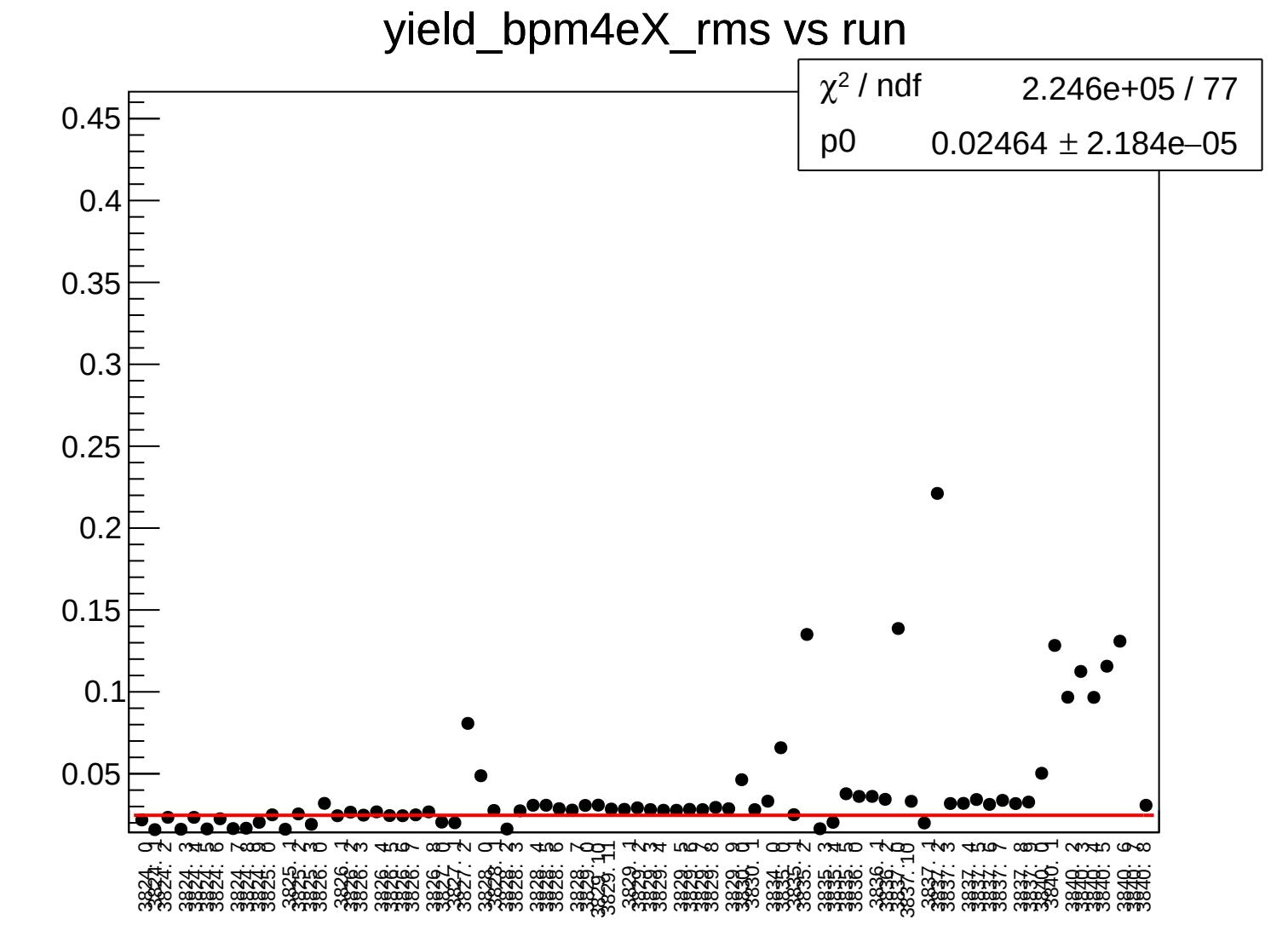

yield_bpm4aX_rms vs run
χ² / ndf 1.563e+05 / 77
p0 0.006908 ± 5.964e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

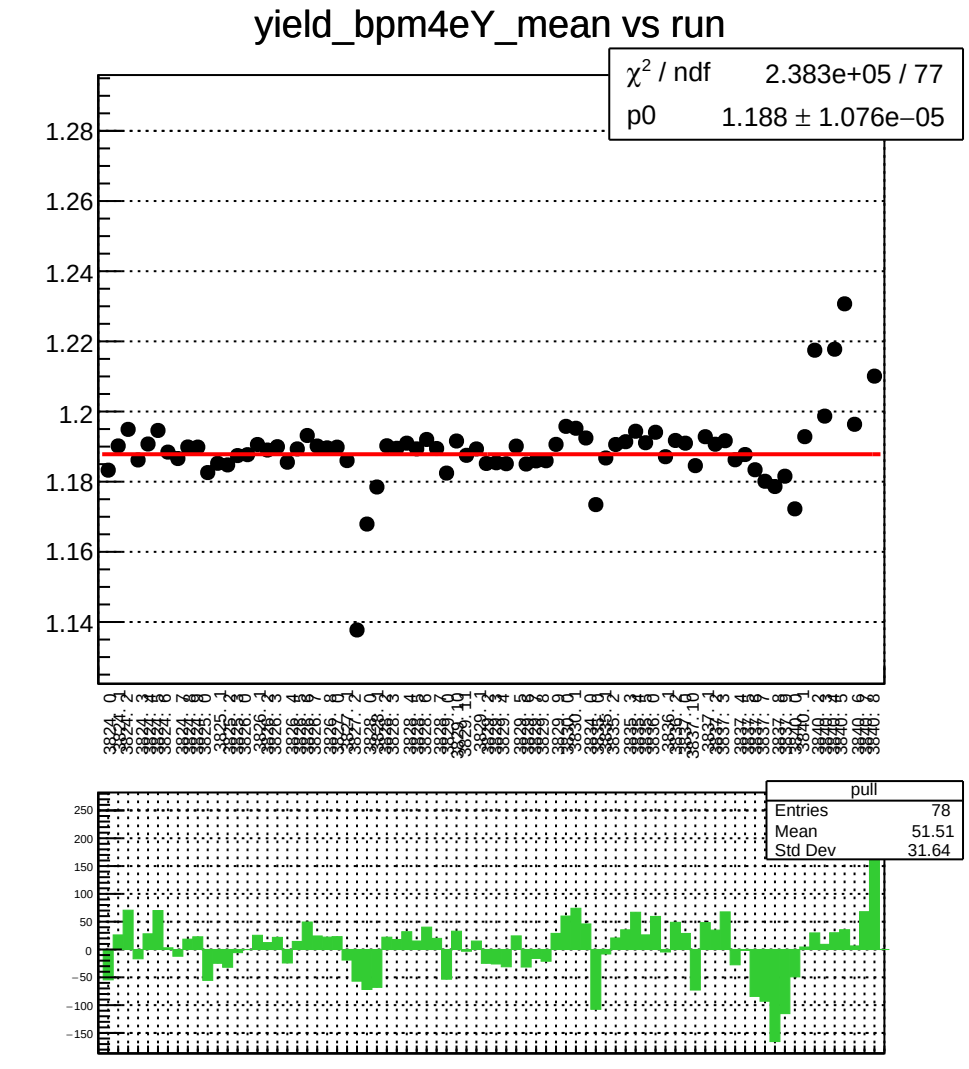

yield_bpm4aY_mean vs run
χ² / ndf 2.273e+05 / 77
p0 1.847 ± 1.54e−05
pull
Entries 78
Mean 173.4
Std Dev 121.3

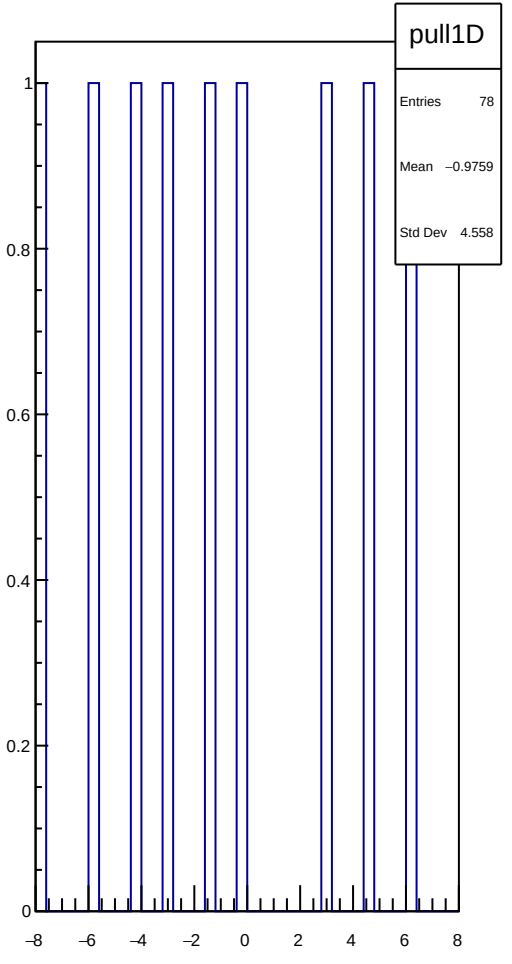

pull1D
Entries 78
Mean 1.135
Std Dev 4.232

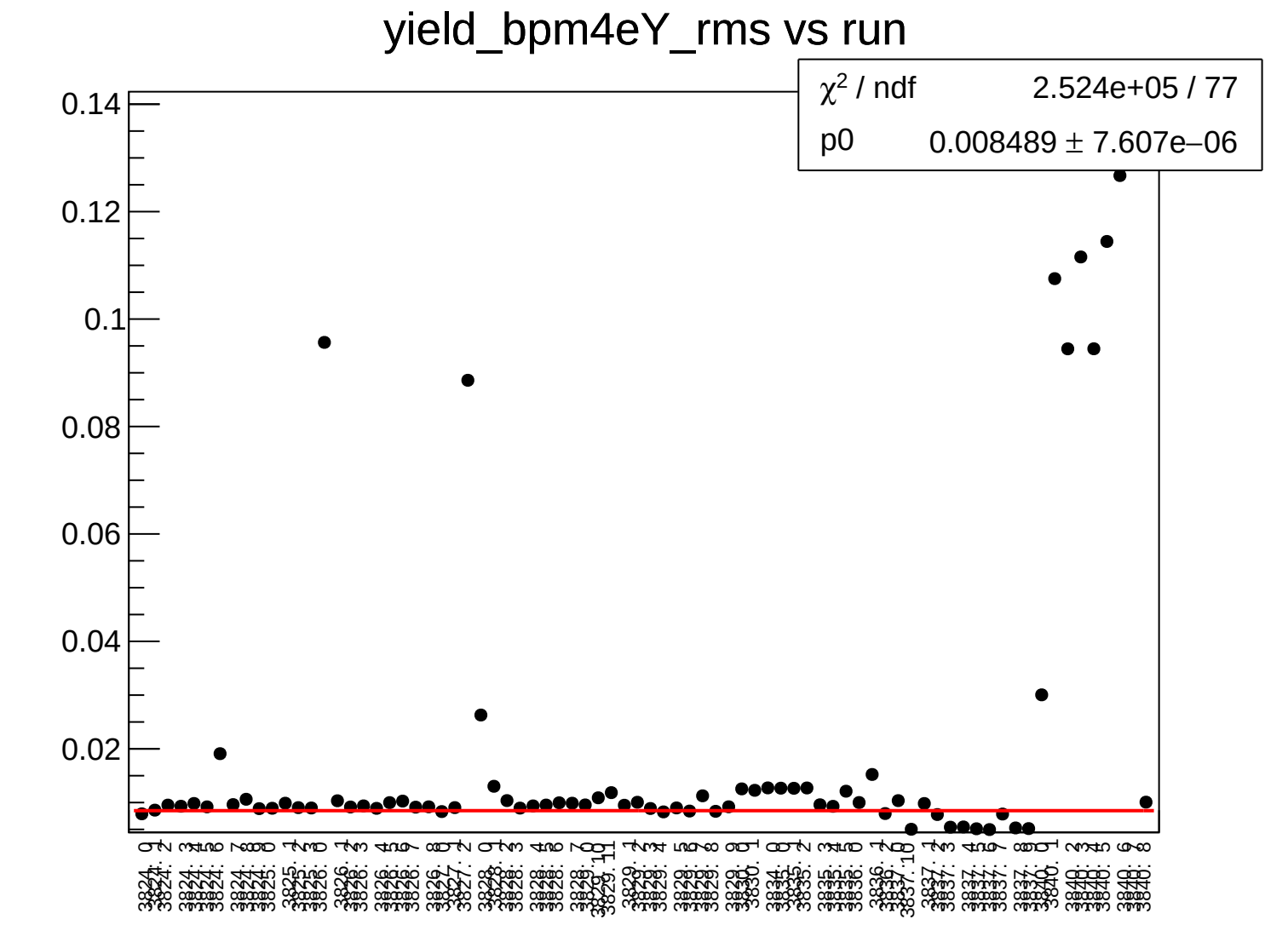

yield_bpm4aY_rms vs run
χ² / ndf 3.369e+05 / 77
p0 0.01173 ± 1.089e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

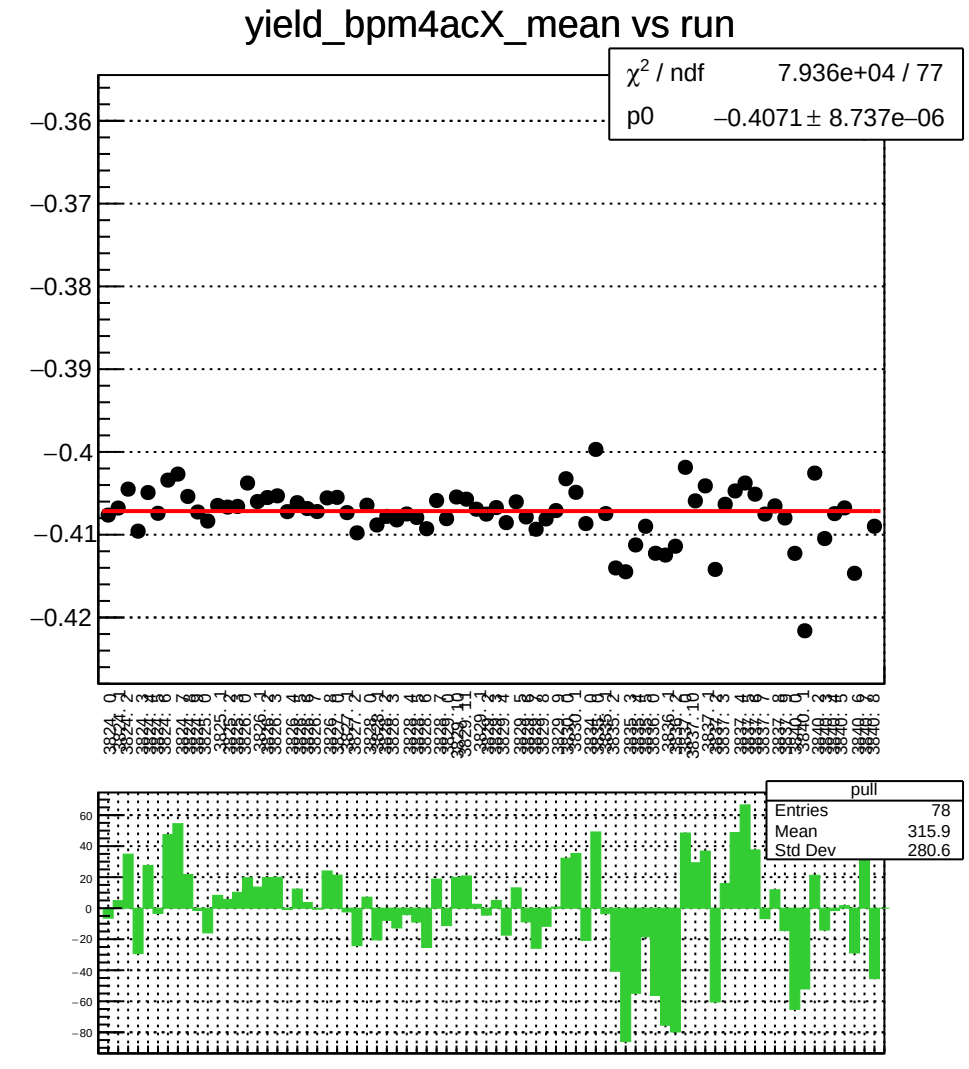

yield_bpm4eX_mean vs run
χ² / ndf 2.134e+05 / 77
p0 0.2833 ± 3.088e−05
pull
Entries 78
Mean 153
Std Dev 107.3
pull1D
Entries 78
Mean 0.8749
Std Dev 5.944

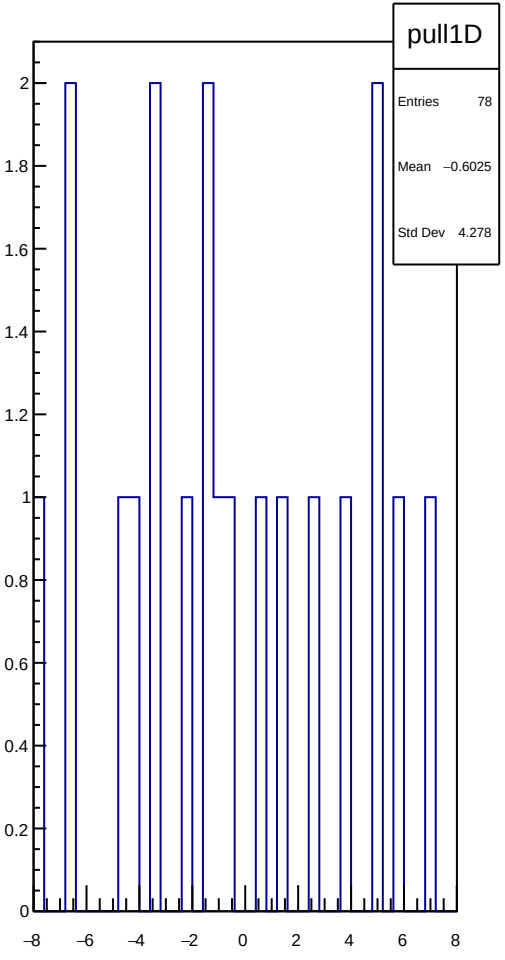

yield_bpm4eX_rms vs run
χ² / ndf 2.246e+05 / 77
p0 0.02464 ± 2.184e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05


yield_bpm4eY_mean vs run
χ² / ndf 2.383e+05 / 77
p0 1.188 ± 1.076e−05
1.28
1.26
1.24
1.22
1.2
1.18
1.16
1.14
pull
Entries 78
Mean 51.51
Std Dev 31.64
250
200
150
100
50
0
−50
−100
−150

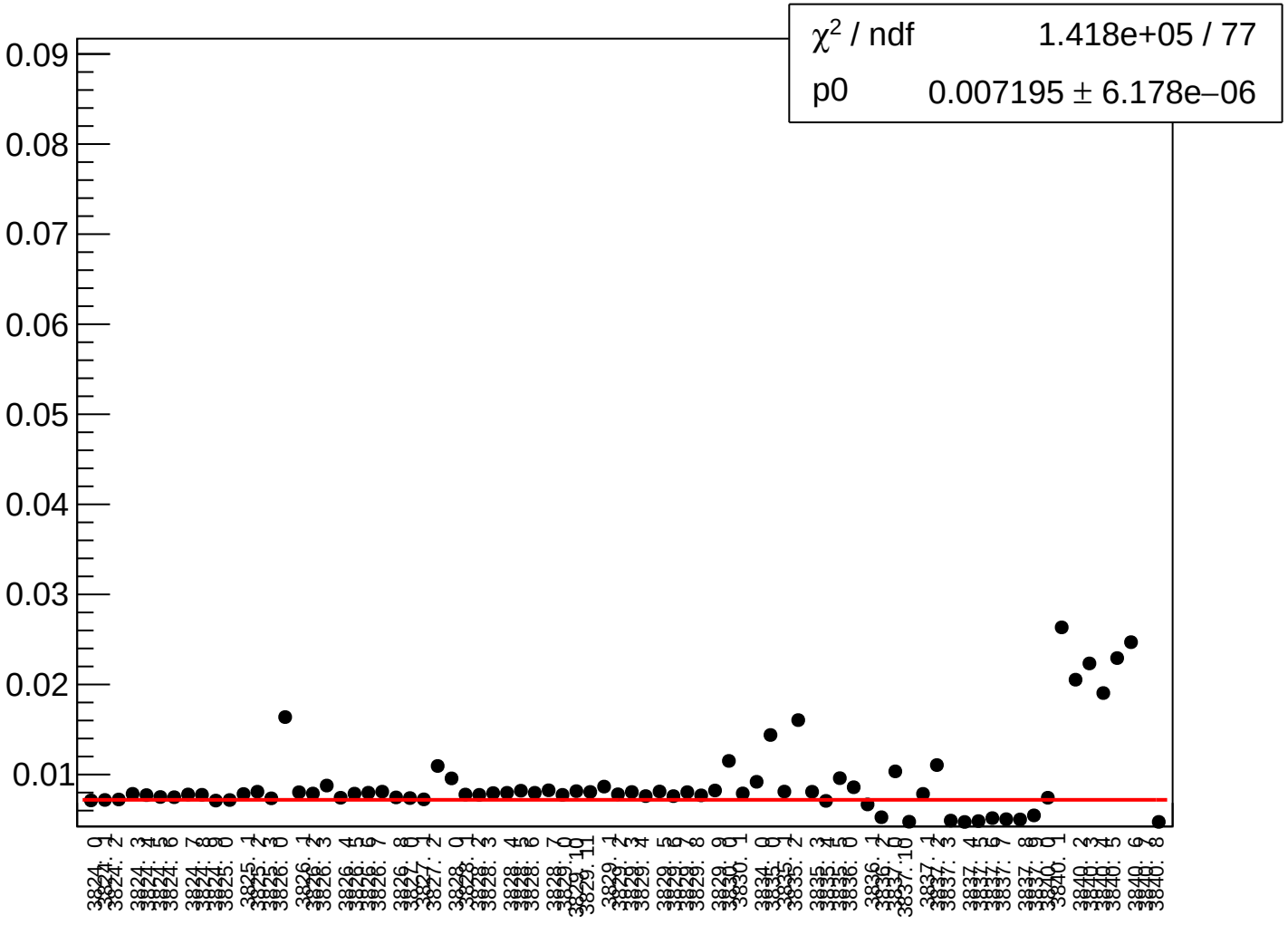

pull1D
Entries 78
Mean −0.9759
Std Dev 4.558
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

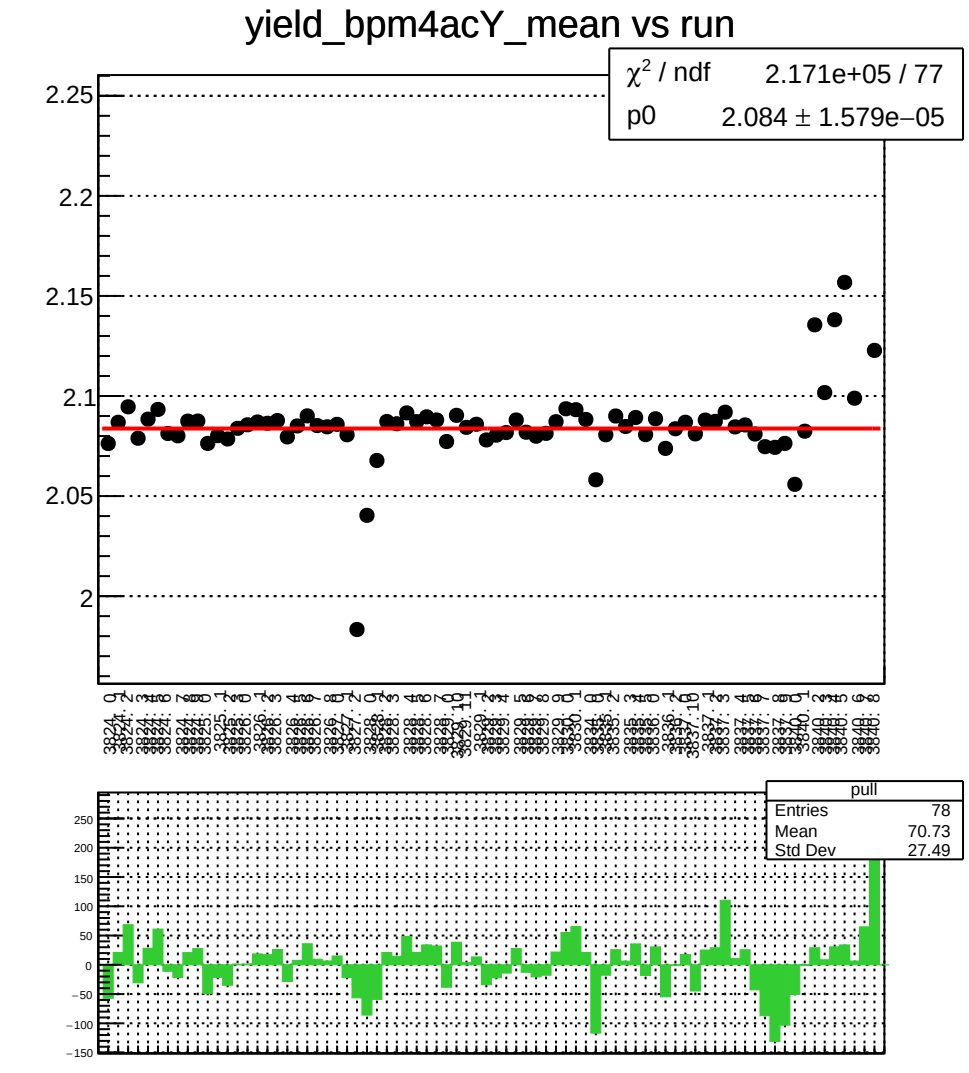

yield_bpm4eY_rms vs run
χ² / ndf 2.524e+05 / 77
p0 0.008489 ± 7.607e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

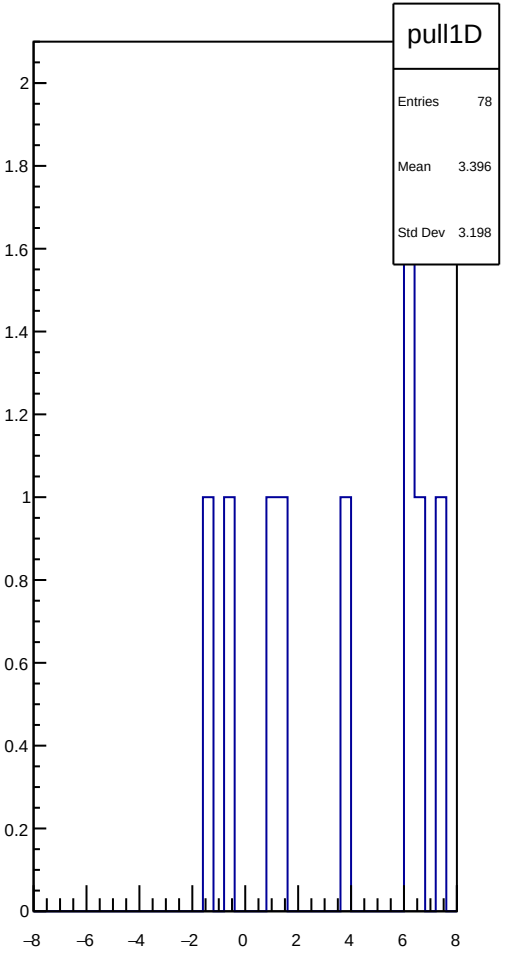

yield_bpm4acX_mean vs run
χ² / ndf 7.936e+04 / 77
p0 −0.4071 ± 8.737e−06
−0.36
−0.37
−0.38
−0.39
−0.4
−0.41
−0.42
pull
Entries 78
Mean 315.9
Std Dev 280.6
60
40
20
0
−20
−40
−60
−80

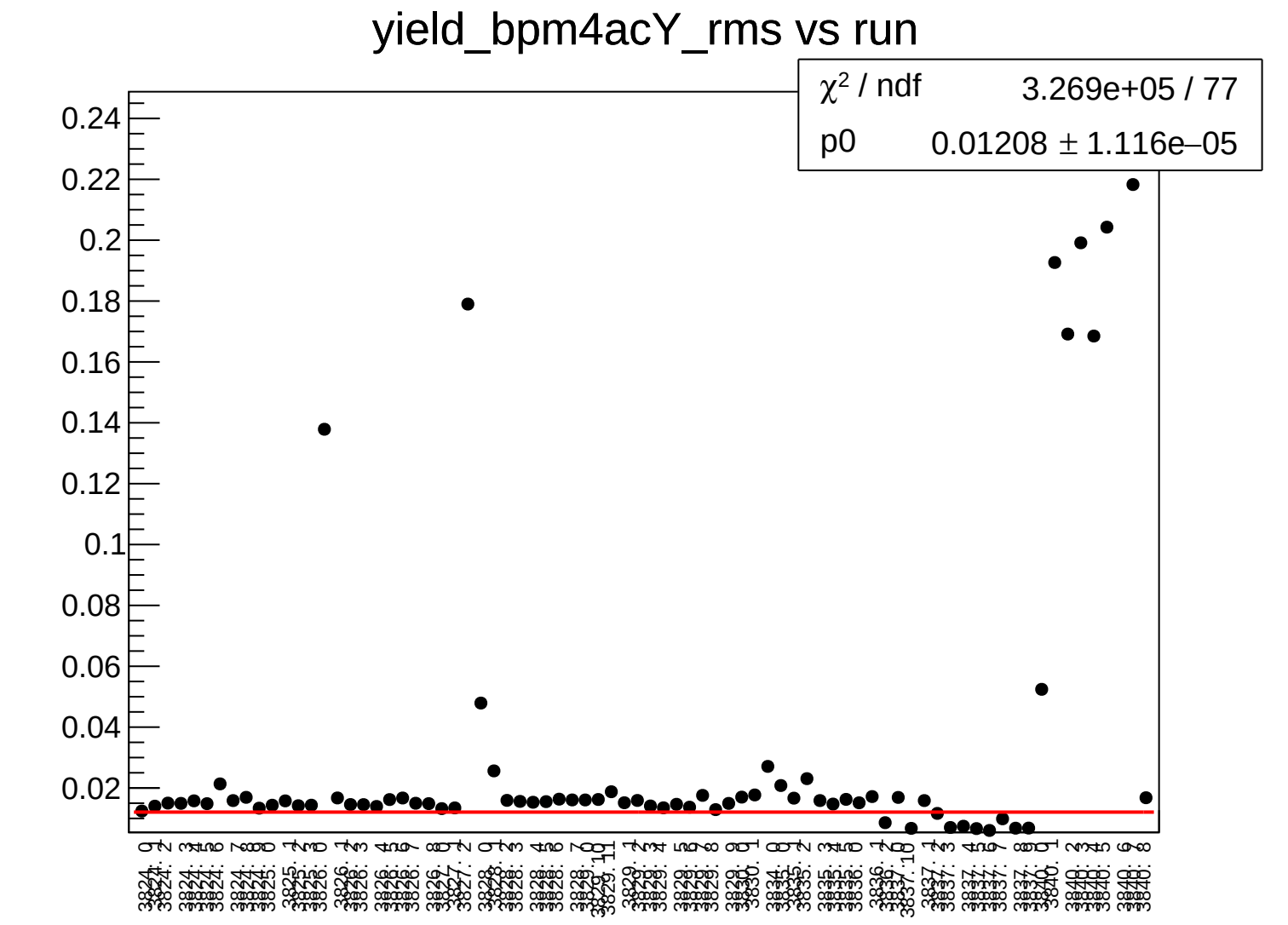

pull1D
Entries 78
Mean −0.6025
Std Dev 4.278
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

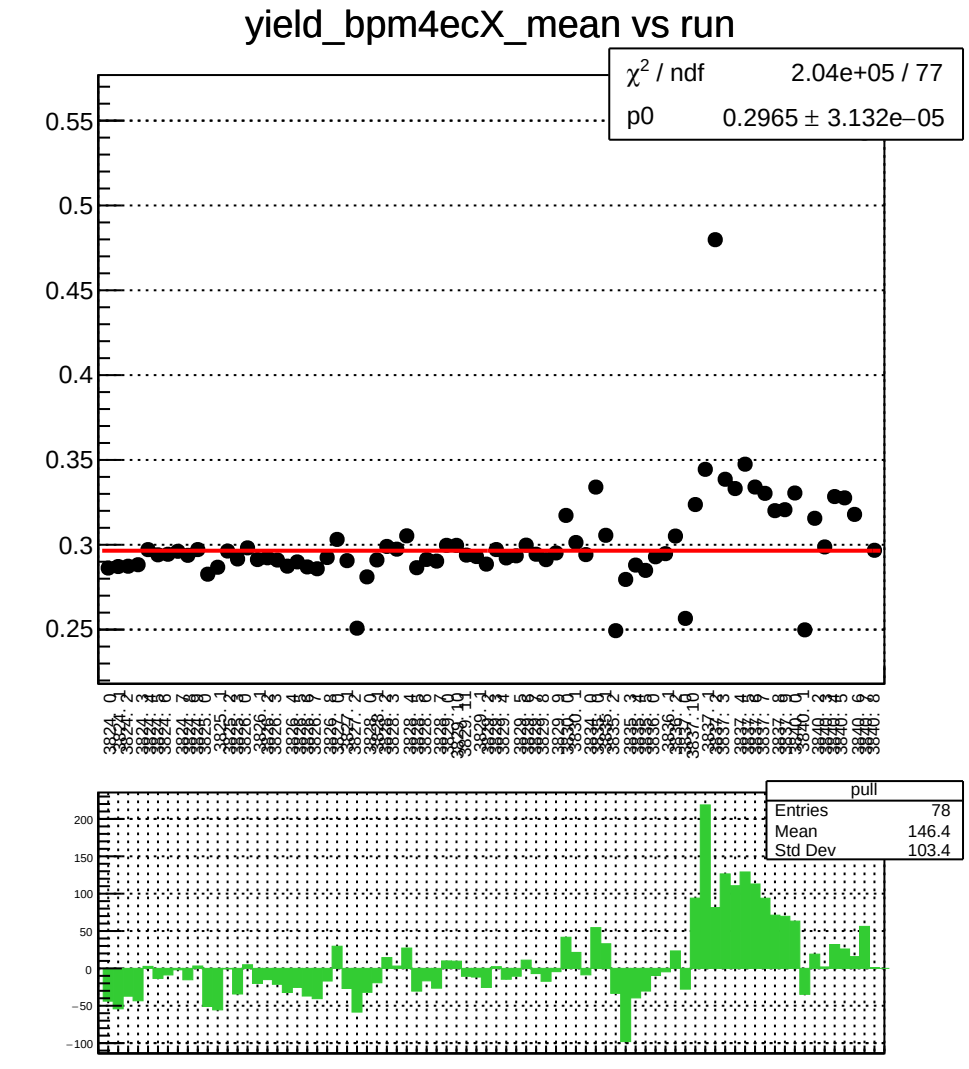
yield_bpm4acX_rms vs run

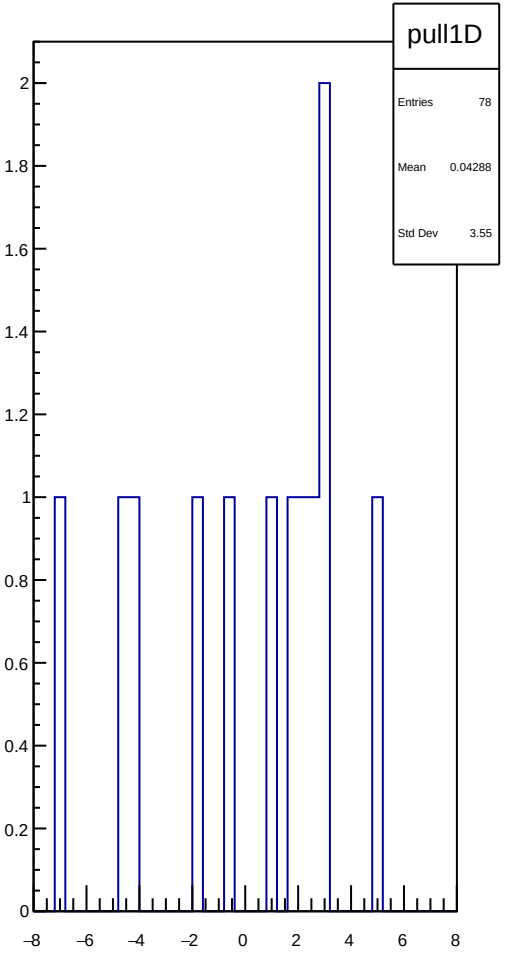


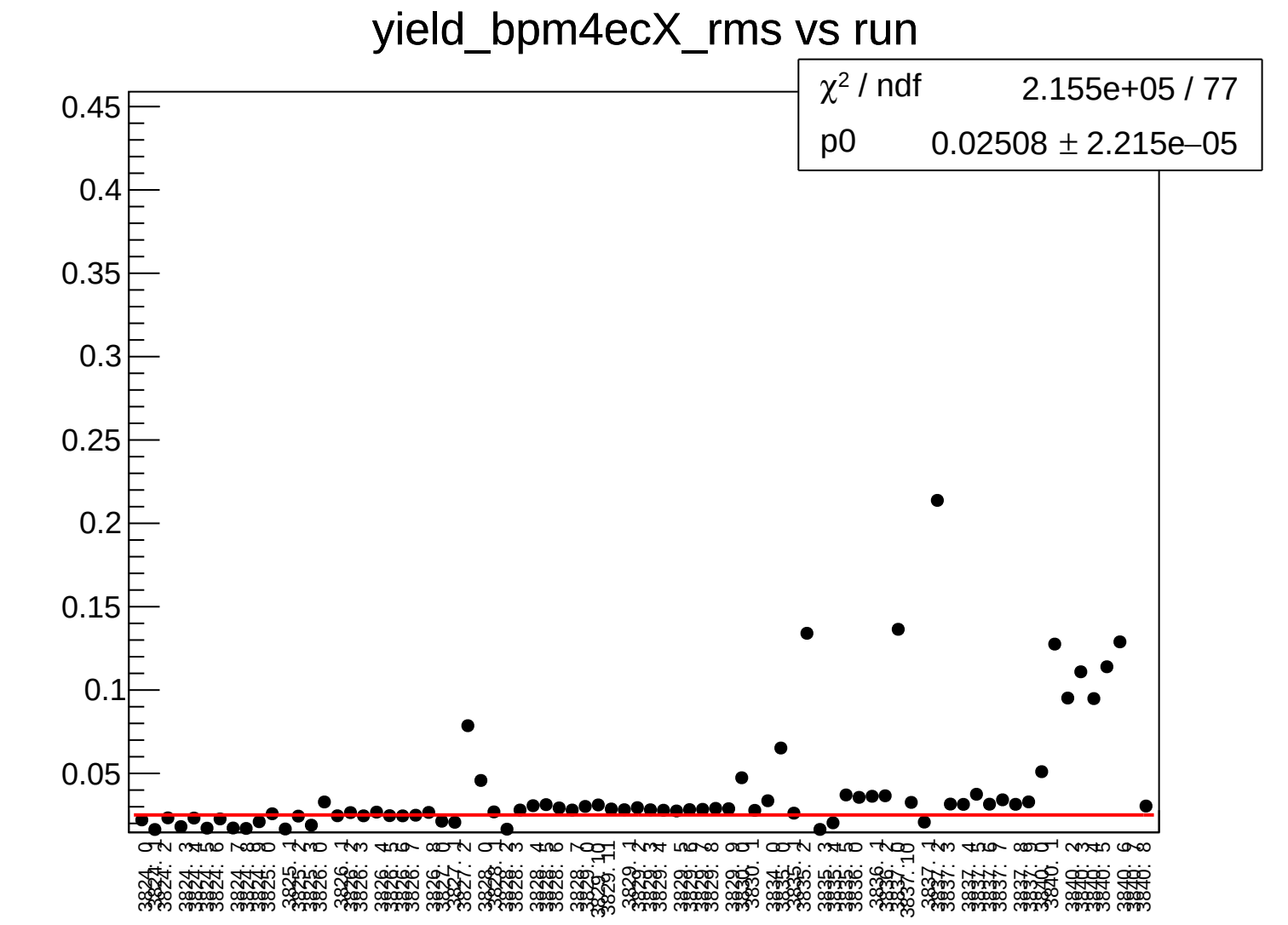

yield_bpm4acY_mean vs run
χ² / ndf 2.171e+05 / 77
p0 2.084 ± 1.579e−05
pull
Entries 78
Mean 70.73
Std Dev 27.49

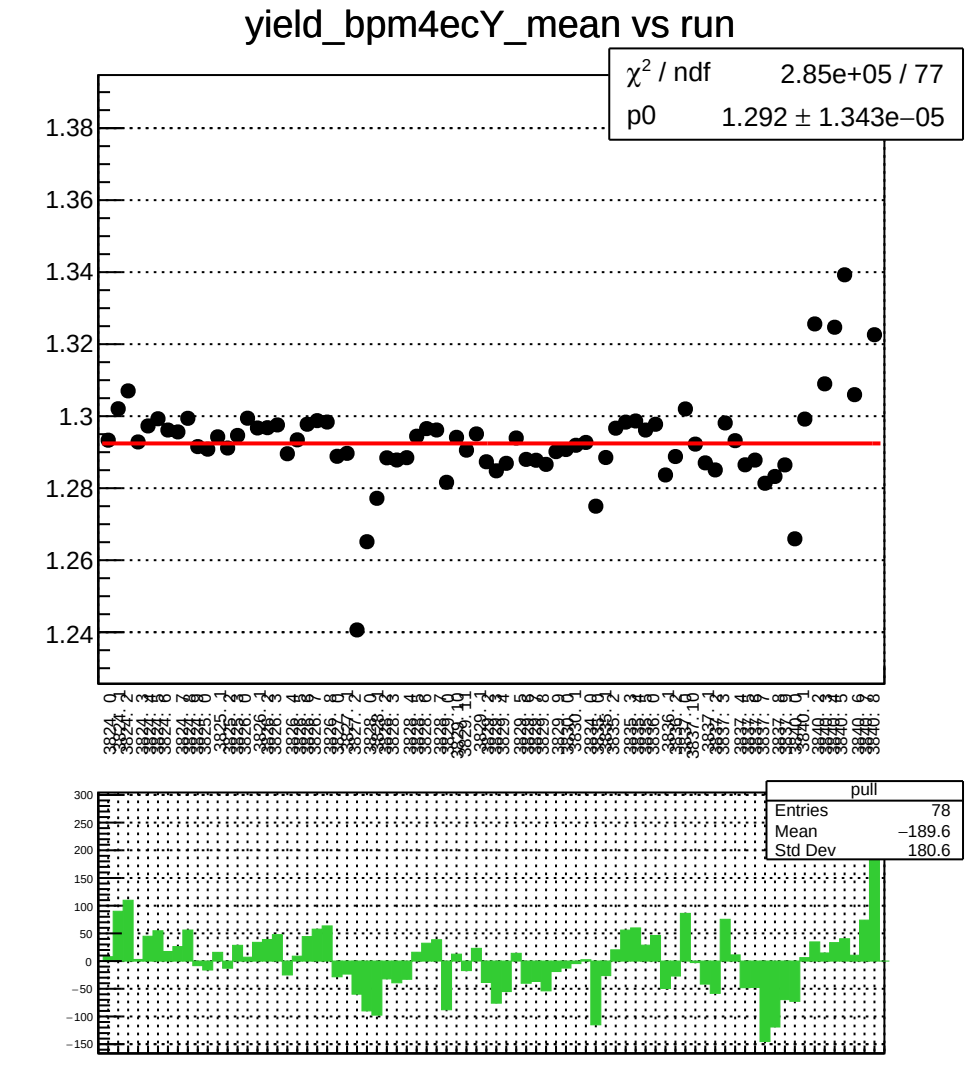

pull1D
Entries 78
Mean 3.396
Std Dev 3.198

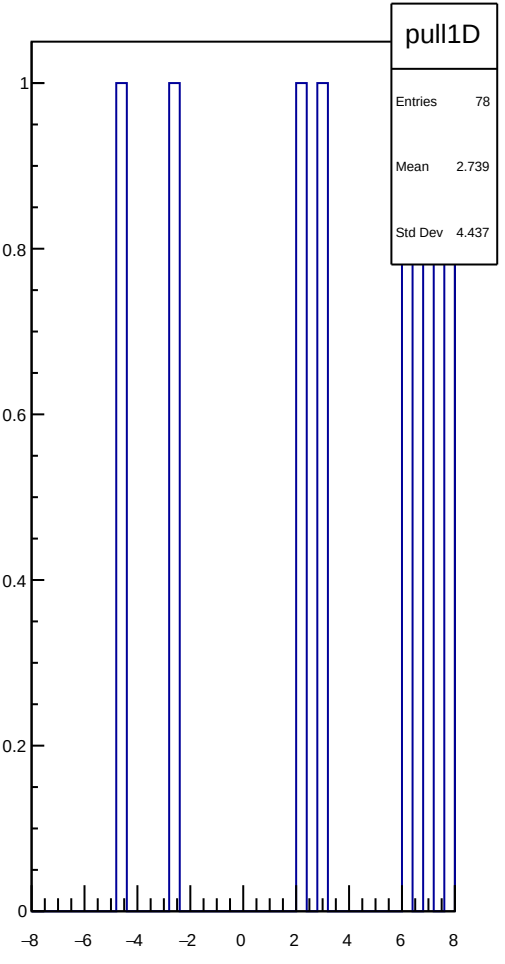

yield_bpm4acY_rms vs run
χ² / ndf 3.269e+05 / 77
p0 0.01208 ± 1.116e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

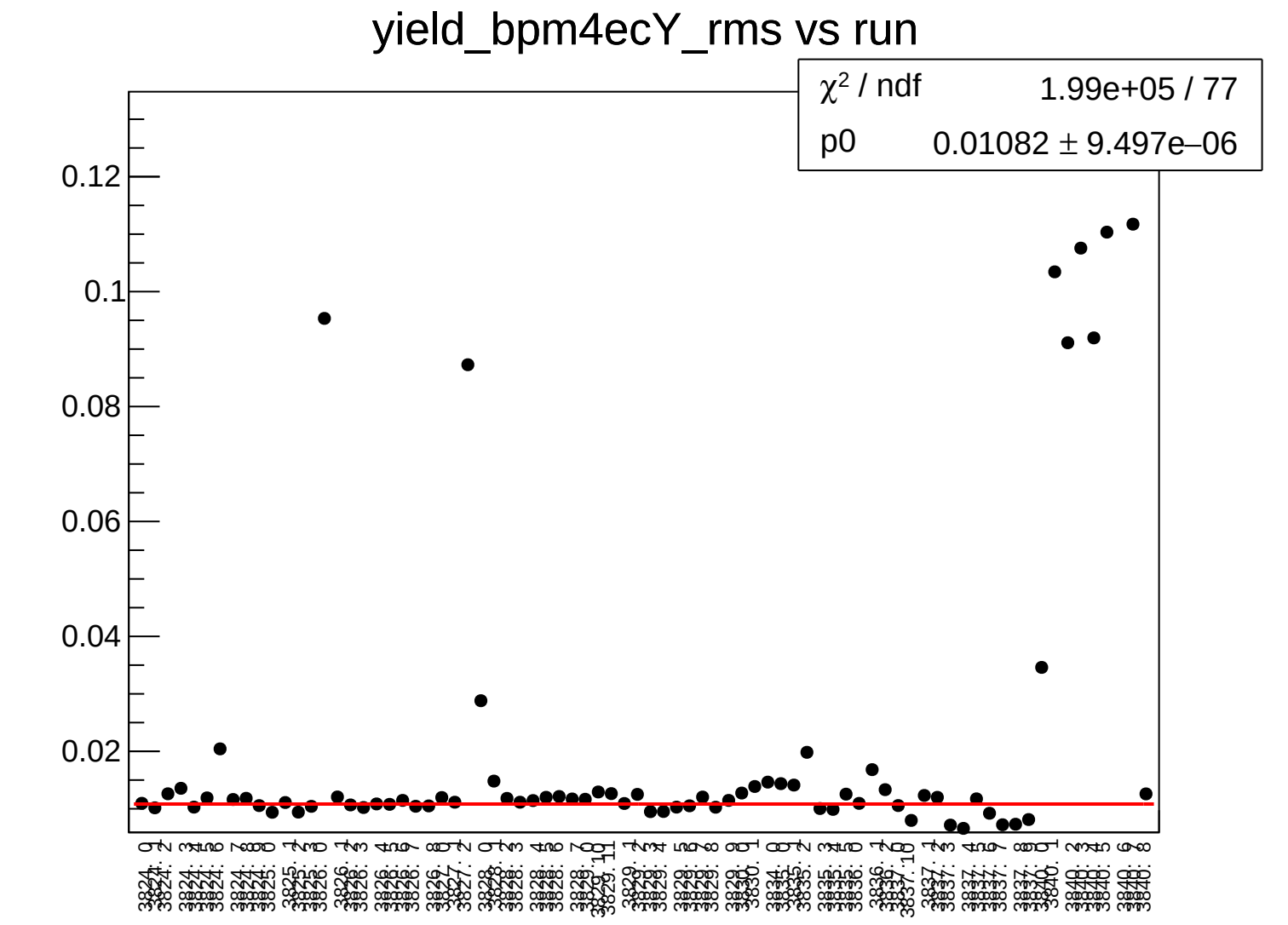

yield_bpm4ecX_mean vs run
χ² / ndf 2.04e+05 / 77
p0 0.2965 ± 3.132e−05
pull
Entries 78
Mean 146.4
Std Dev 103.4

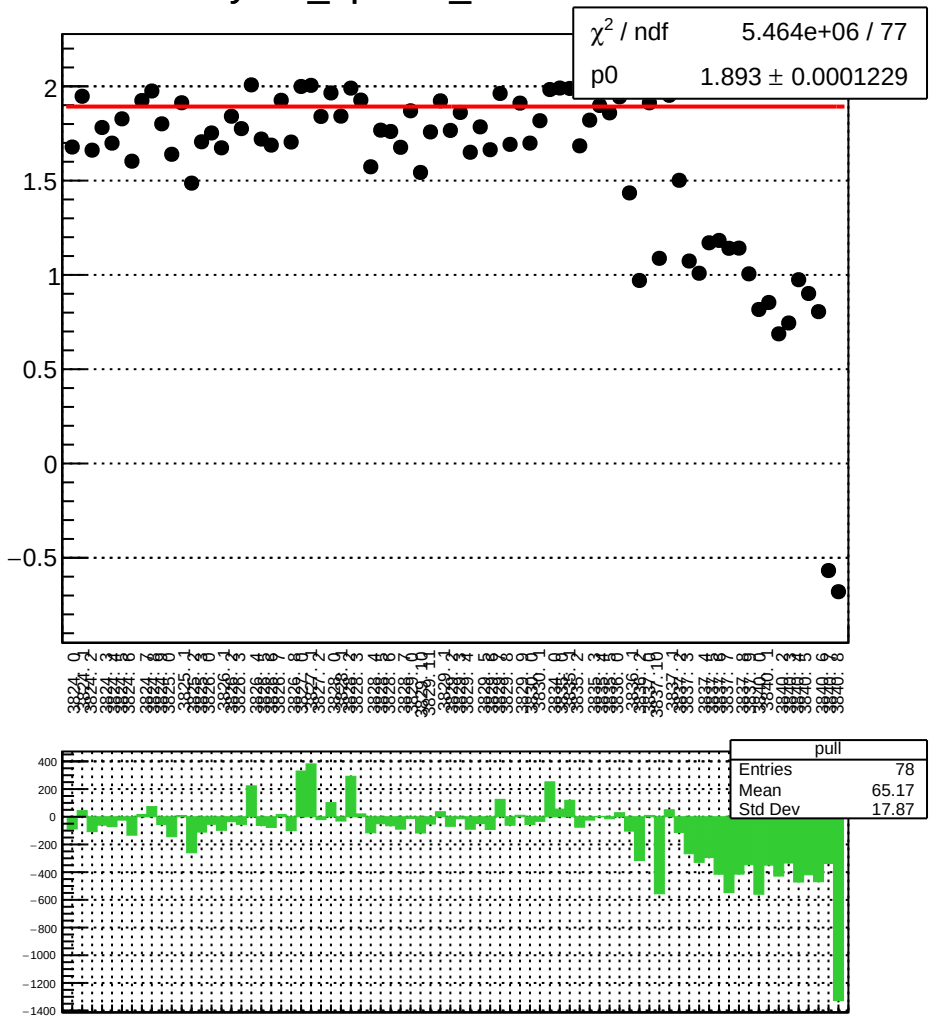

pull1D
Entries 78
Mean 0.04288
Std Dev 3.55

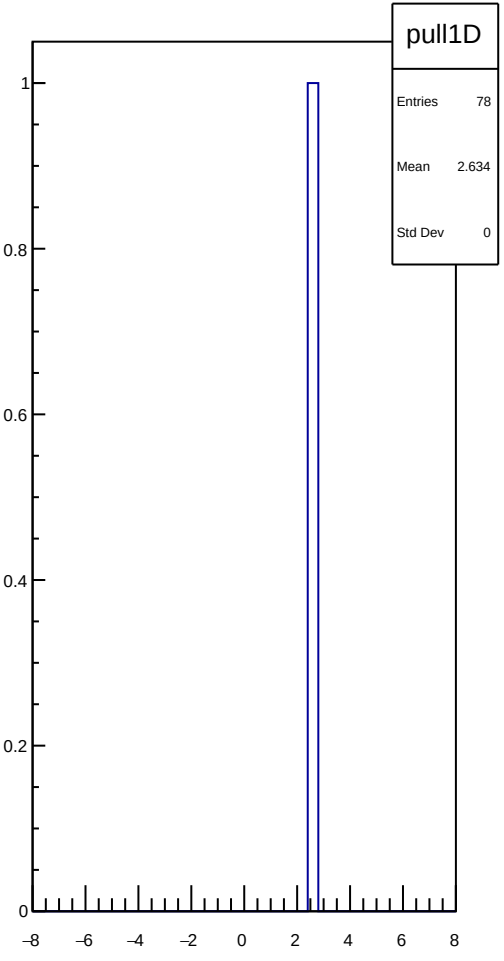

yield_bpm4ecX_rms vs run
χ² / ndf 2.155e+05 / 77
p0 0.02508 ± 2.215e–05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

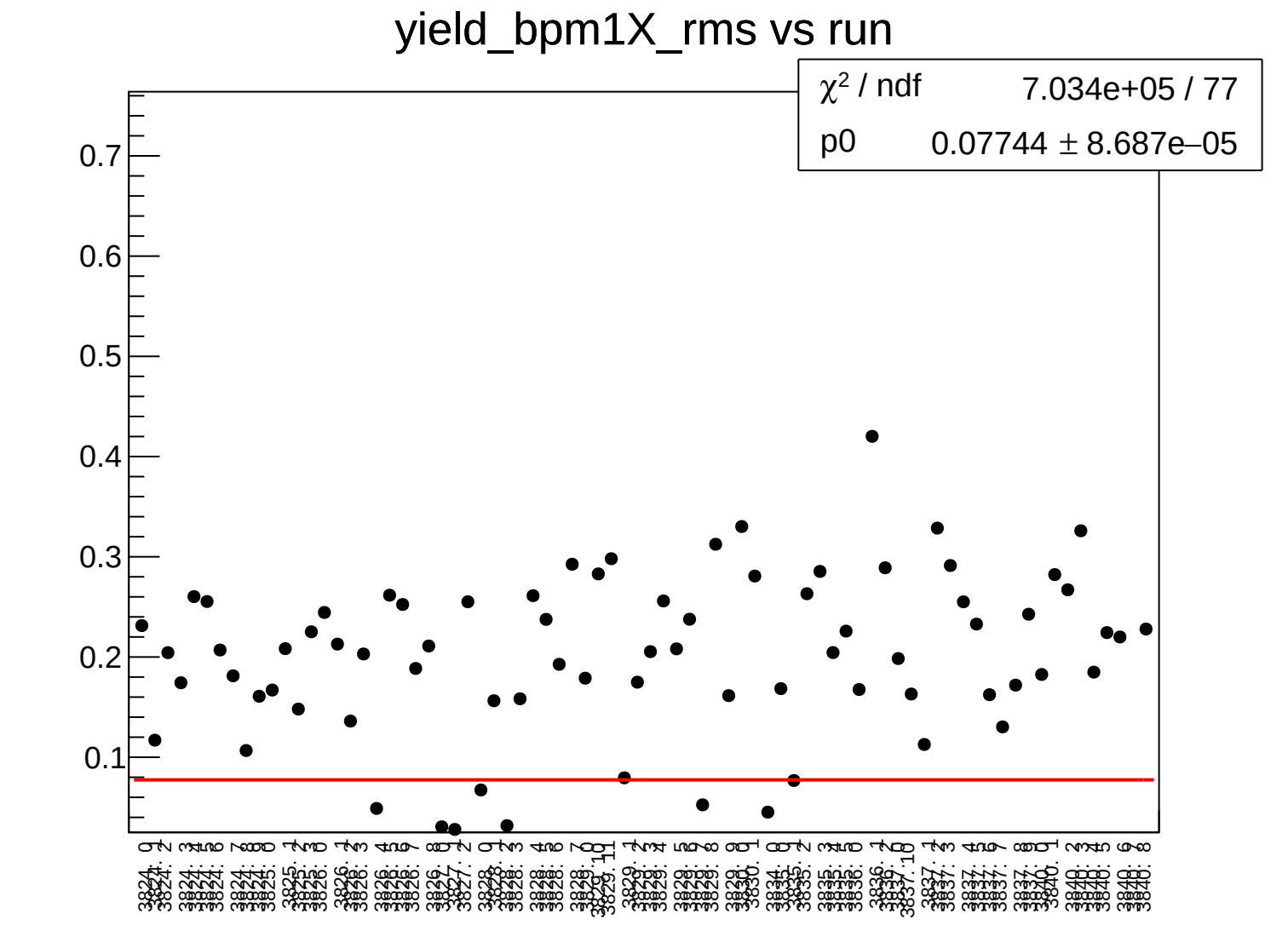

yield_bpm4ecY_mean vs run
χ² / ndf 2.85e+05 / 77
p0 1.292 ± 1.343e−05
1.38
1.36
1.34
1.32
1.3
1.28
1.26
1.24
pull
Entries 78
Mean −189.6
Std Dev 180.6
300
250
200
150
100
50
0
−50
−100
−150

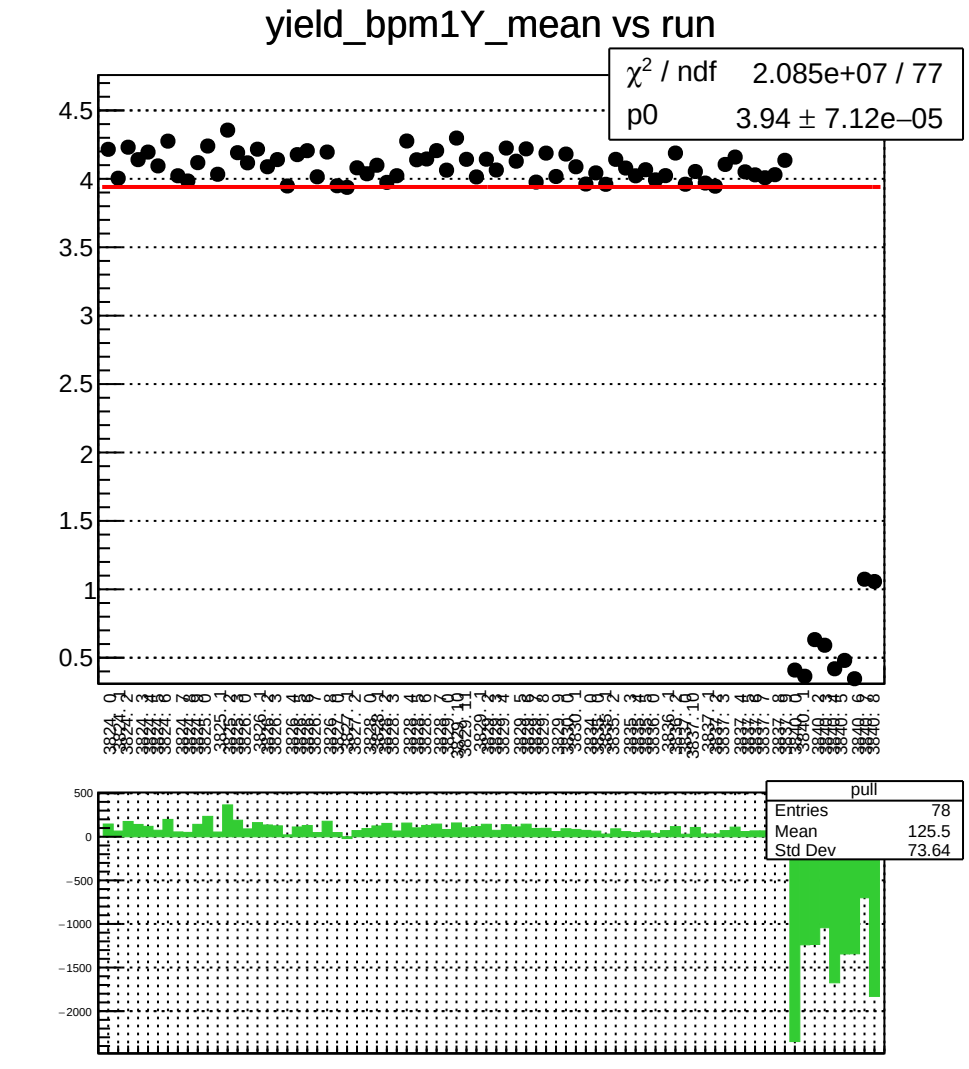

pull1D
Entries 78
Mean 2.739
Std Dev 4.437
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

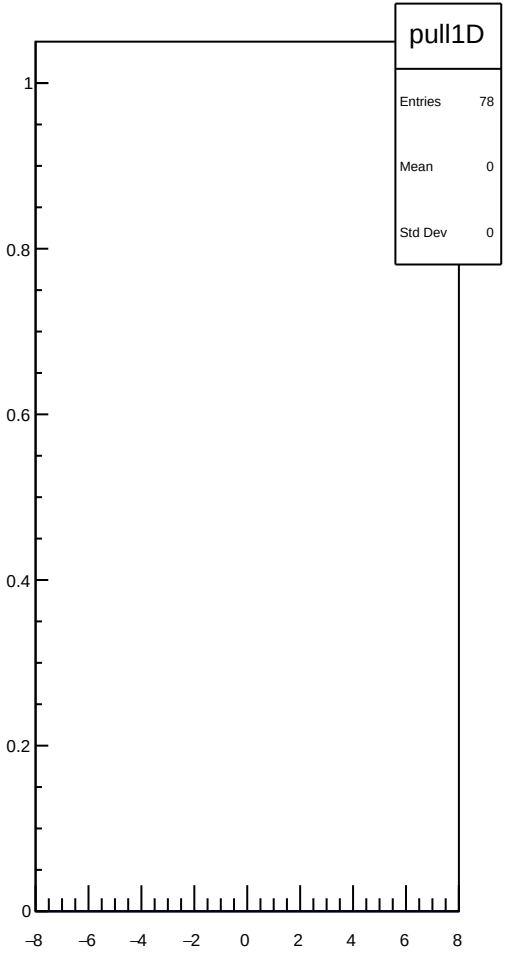

yield_bpm4ecY_rms vs run
χ² / ndf 1.99e+05 / 77
p0 0.01082 ± 9.497e–06
0.12
0.1
0.08
0.06
0.04
0.02

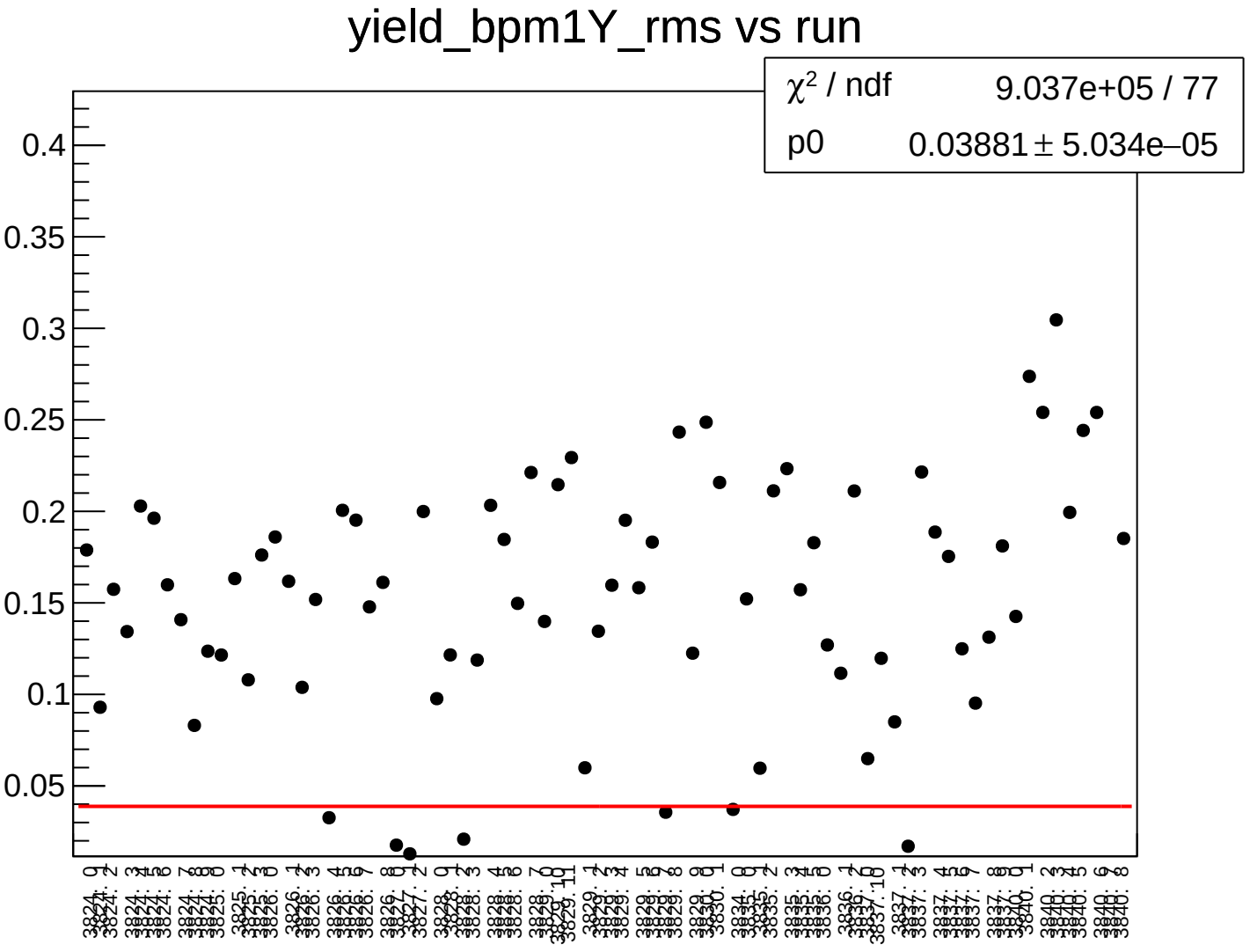

yield_bpm1X_mean vs run
χ² / ndf 5.464e+06 / 77
p0 1.893 ± 0.0001229
pull
Entries 78
Mean 65.17
Std Dev 17.87

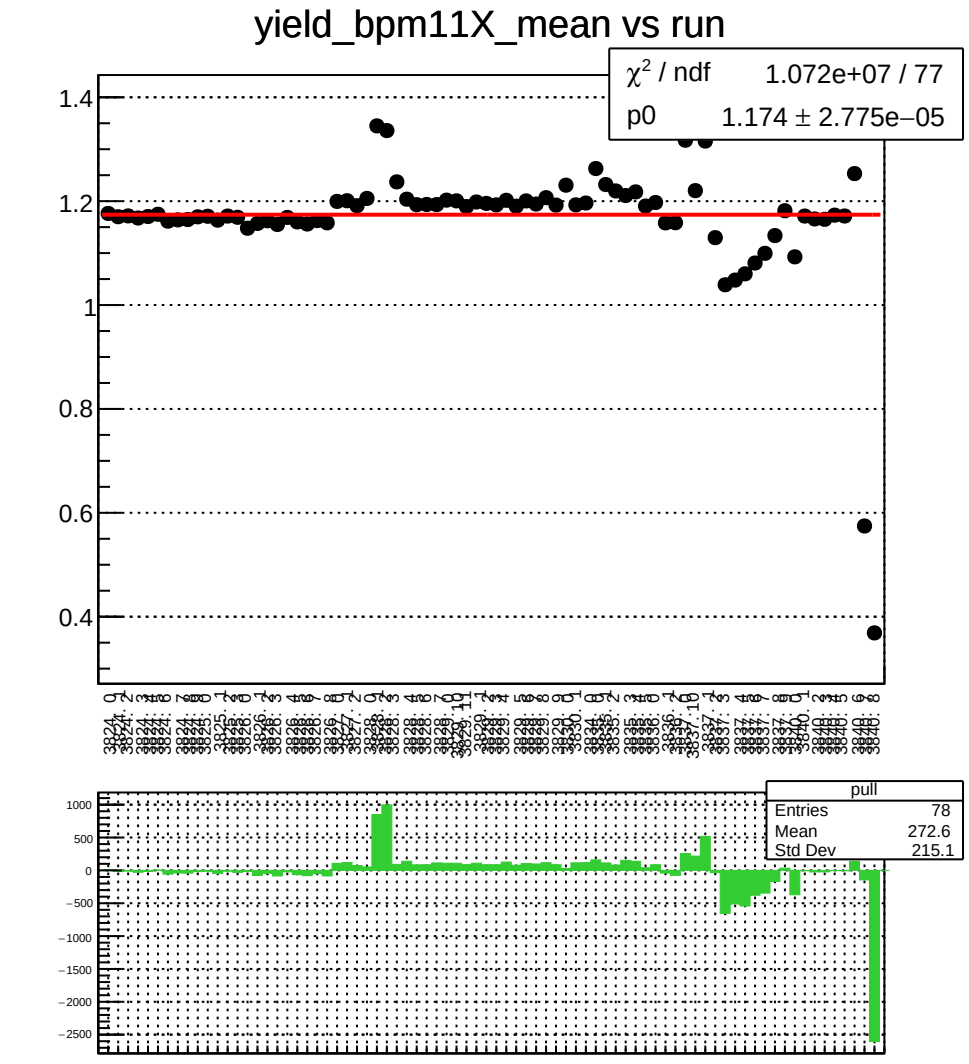

pull1D
Entries 78
Mean 2.634
Std Dev 0

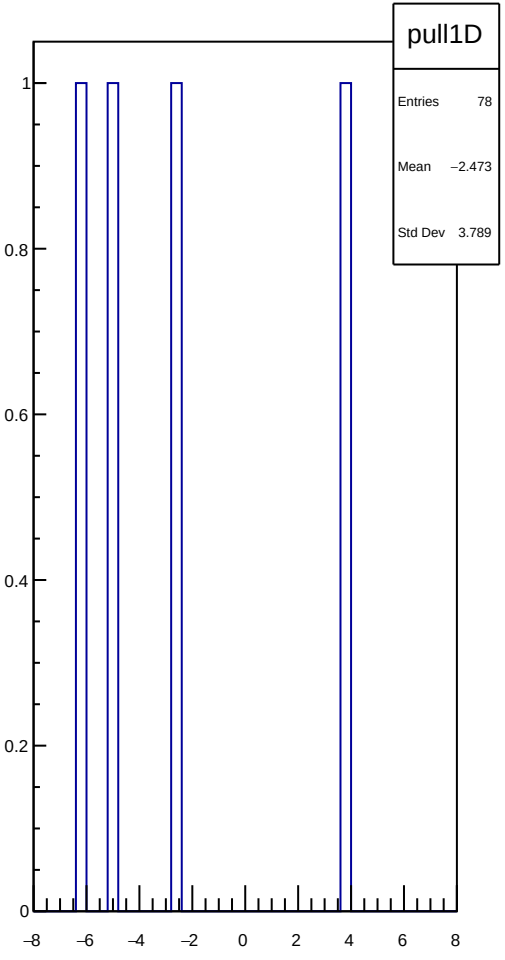

yield_bpm1X_rms vs run
χ² / ndf 7.034e+05 / 77
p0 0.07744 ± 8.687e–05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

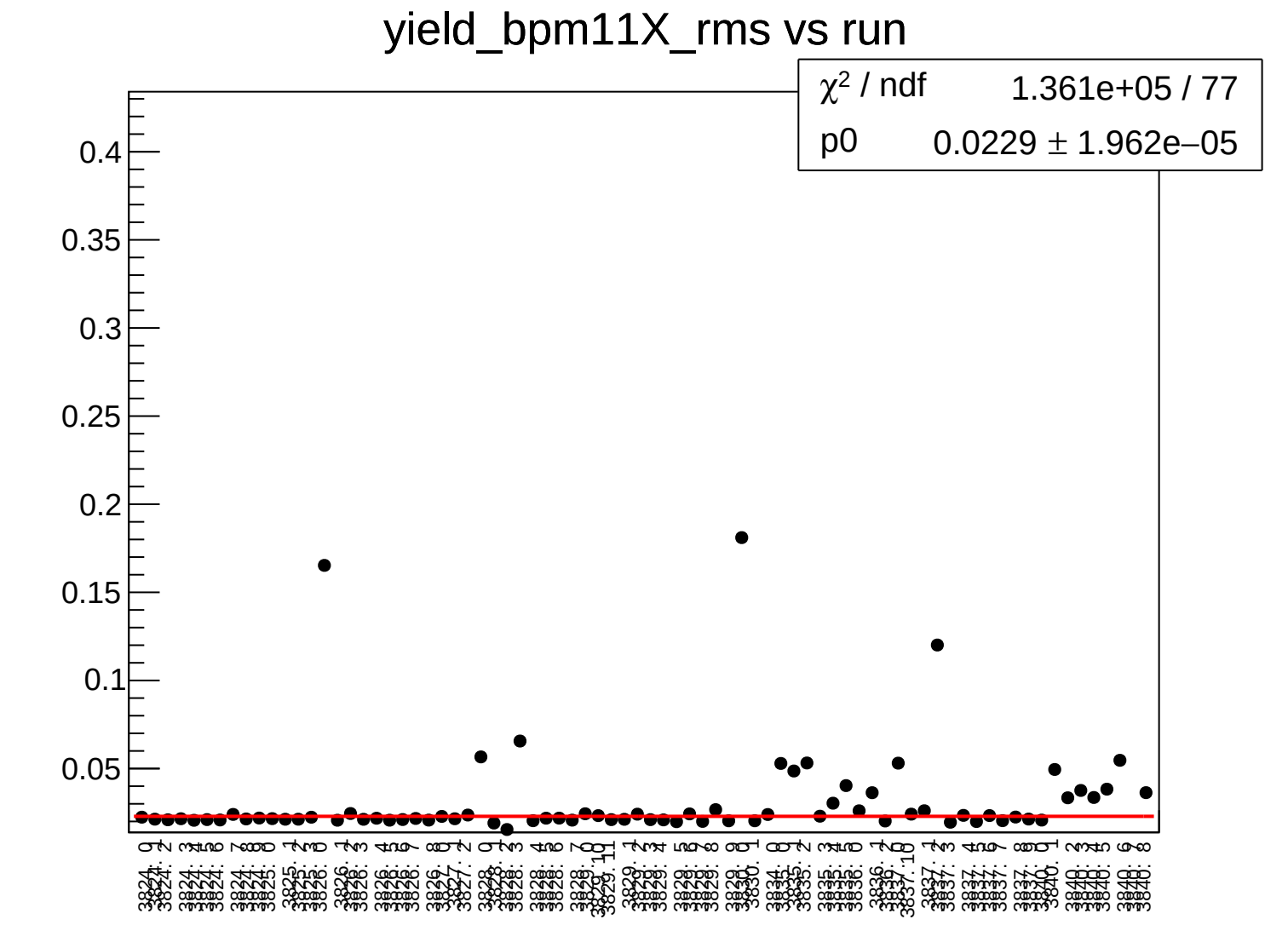

yield_bpm1Y_mean vs run
χ² / ndf 2.085e+07 / 77
p0 3.94 ± 7.12e−05
pull
Entries 78
Mean 125.5
Std Dev 73.64

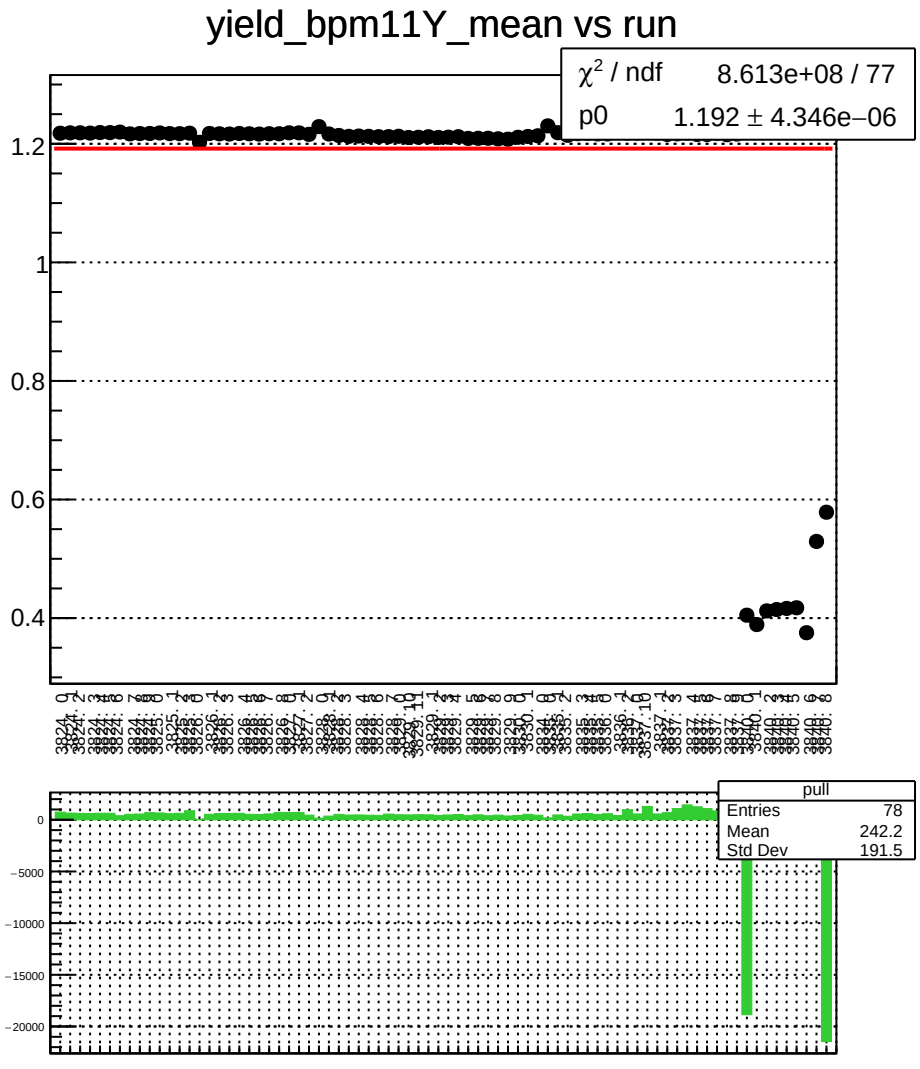

pull1D
Entries 78
Mean 0
Std Dev 0

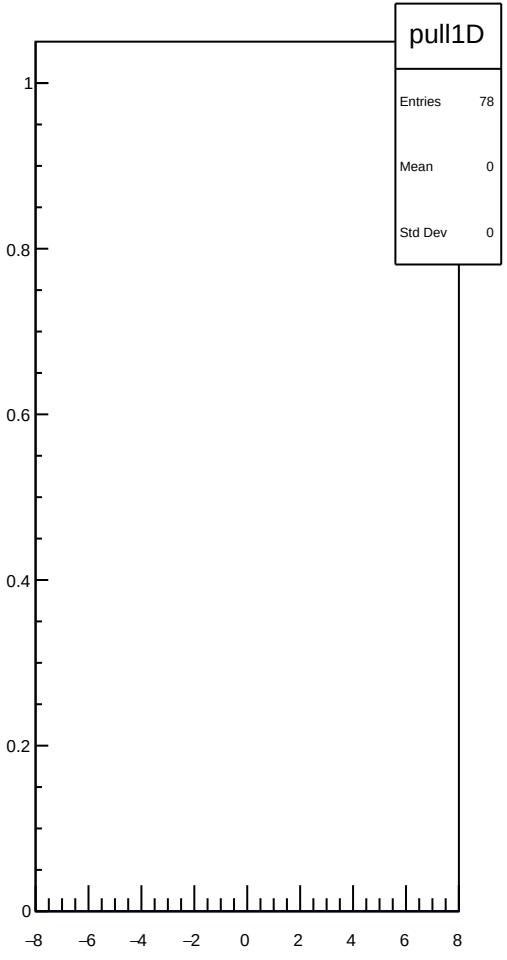

yield_bpm1Y_rms vs run
χ² / ndf 9.037e+05 / 77
p0 0.03881 ± 5.034e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

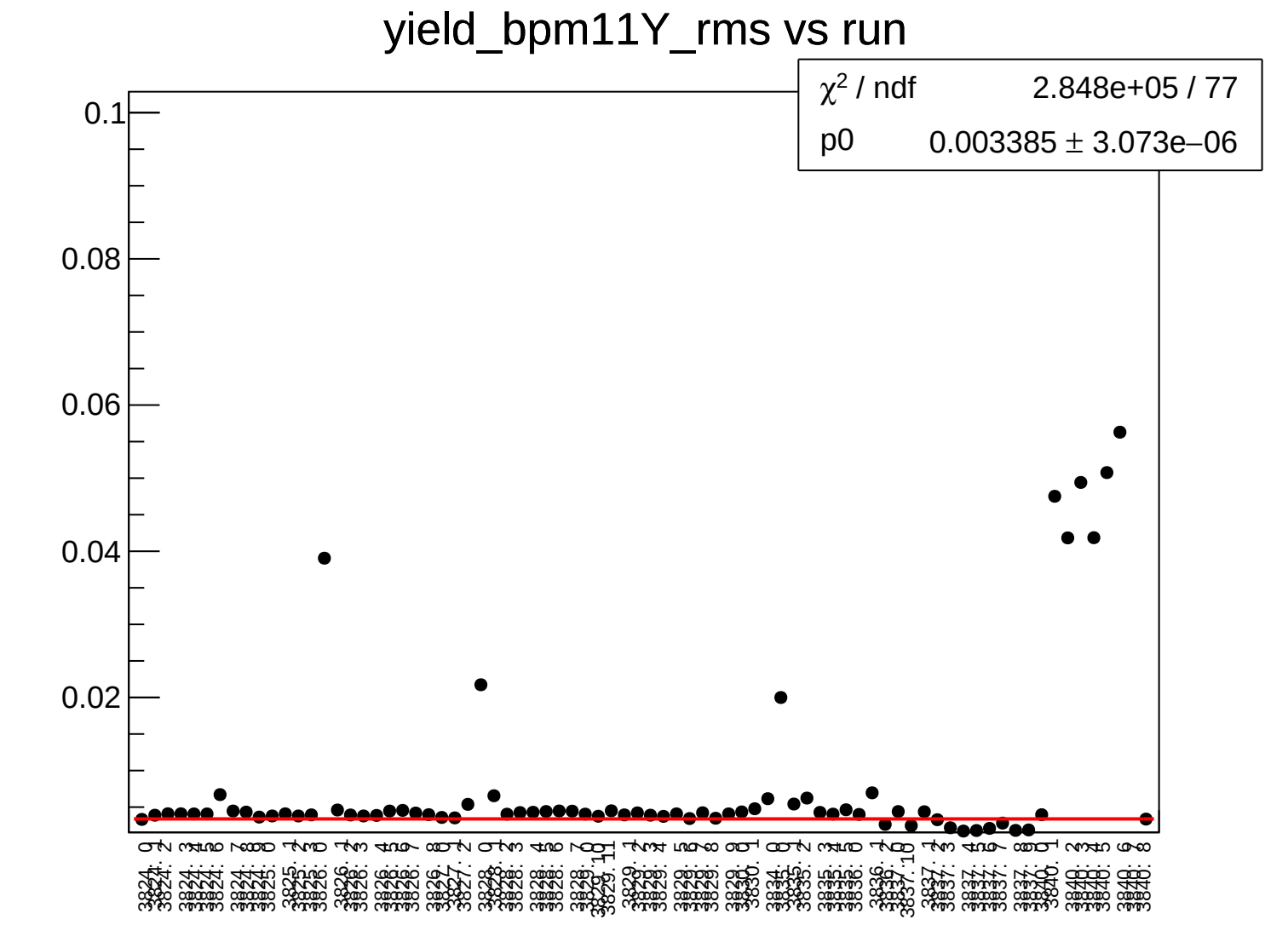

yield_bpm11X_mean vs run
χ² / ndf 1.072e+07 / 77
p0 1.174 ± 2.775e−05
pull
Entries 78
Mean 272.6
Std Dev 215.1

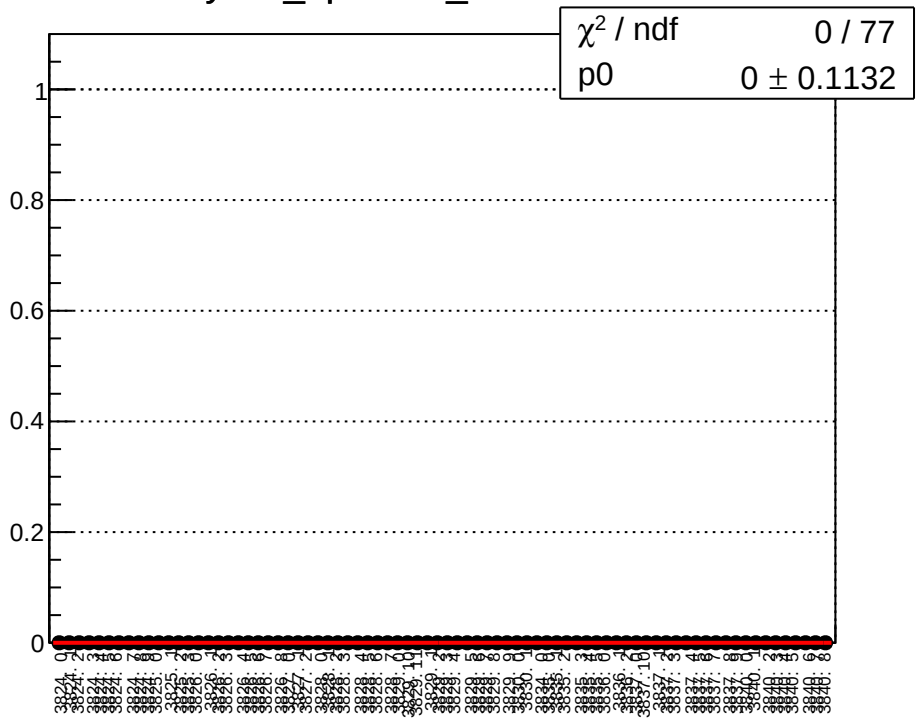

pull1D
Entries 78
Mean −2.473
Std Dev 3.789

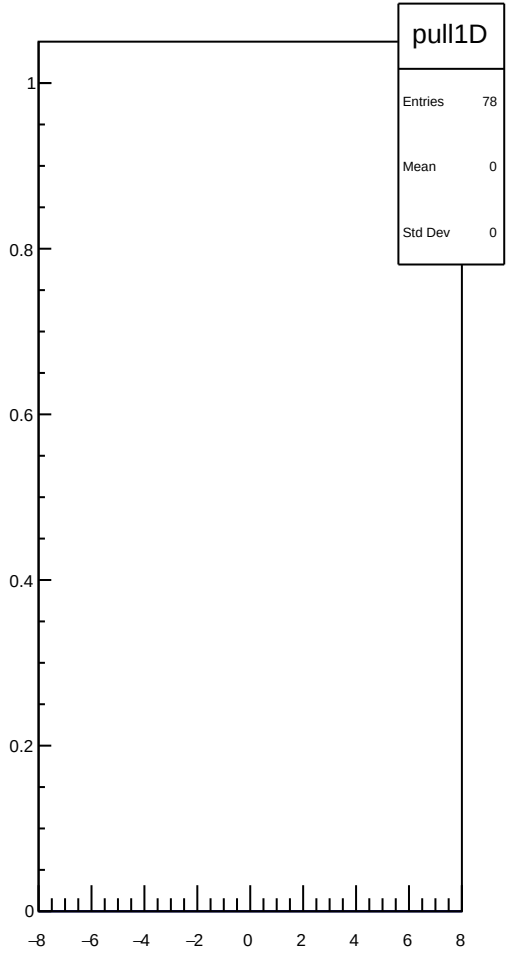

yield_bpm11X_rms vs run
χ² / ndf 1.361e+05 / 77
p0 0.0229 ± 1.962e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

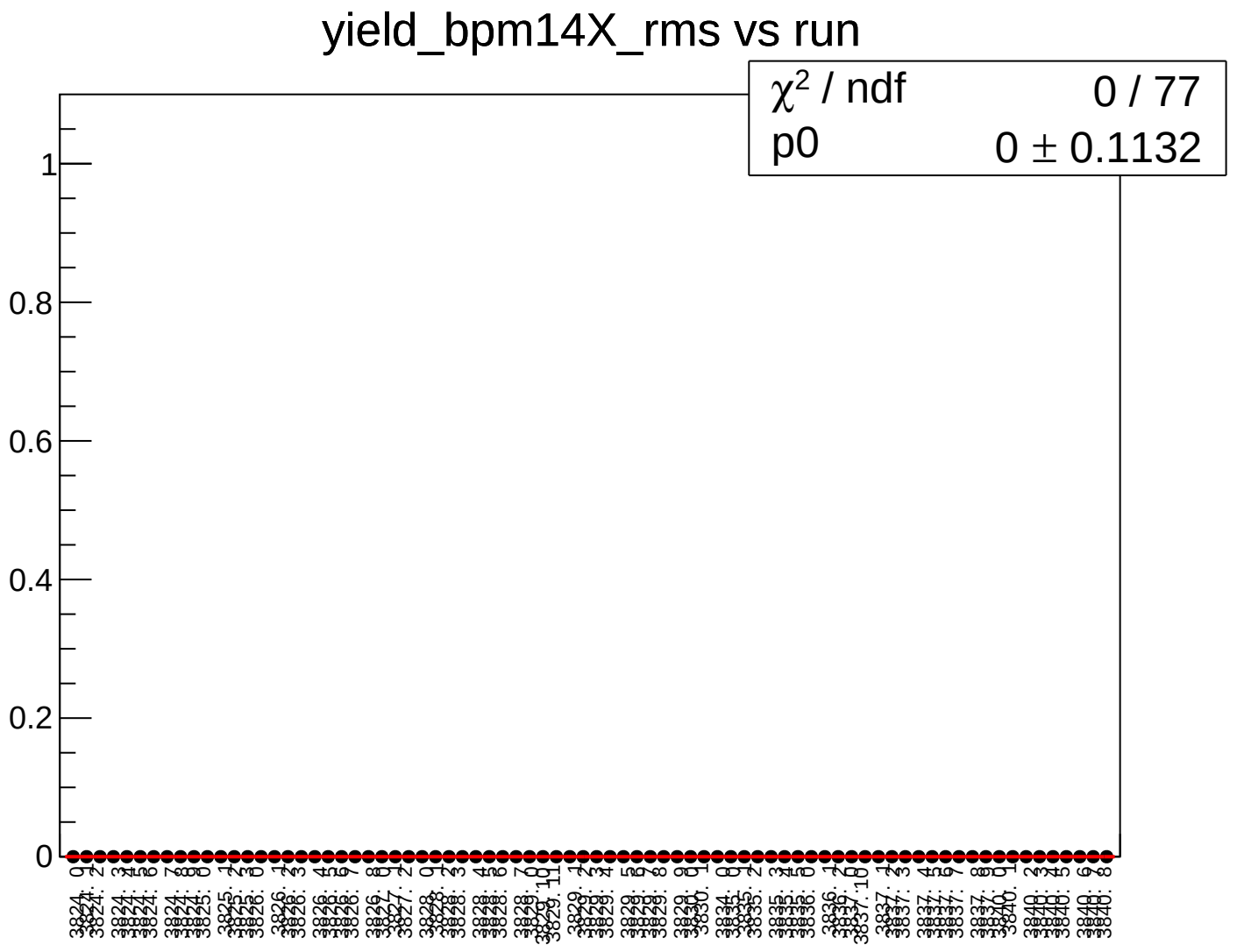

yield_bpm11Y_mean vs run
χ² / ndf 8.613e+08 / 77
p0 1.192 ± 4.346e−06
pull
Entries 78
Mean 242.2
Std Dev 191.5

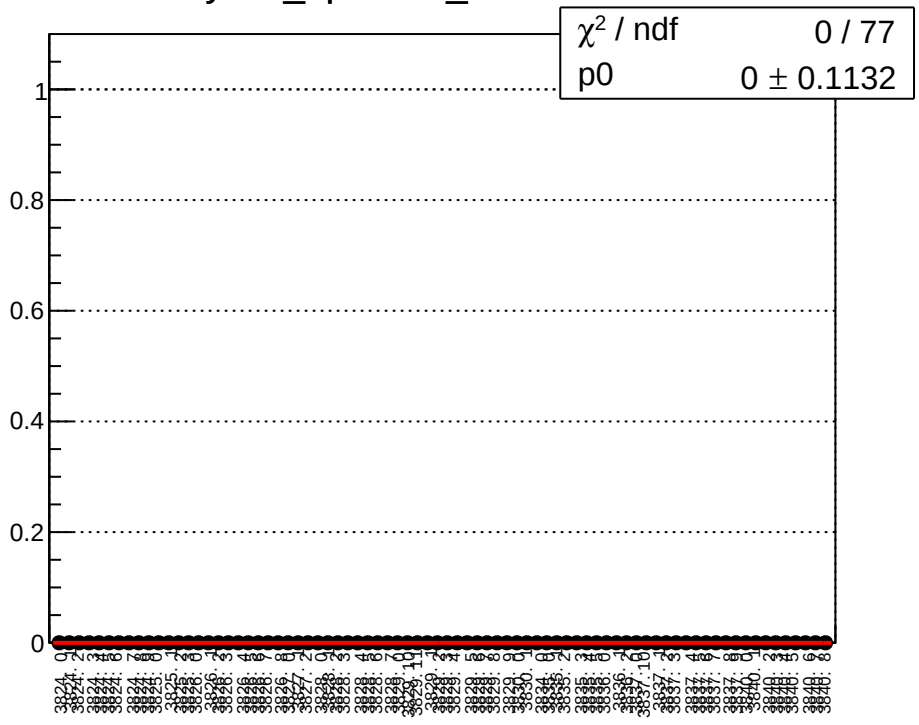

pull1D
Entries 78
Mean 0
Std Dev 0

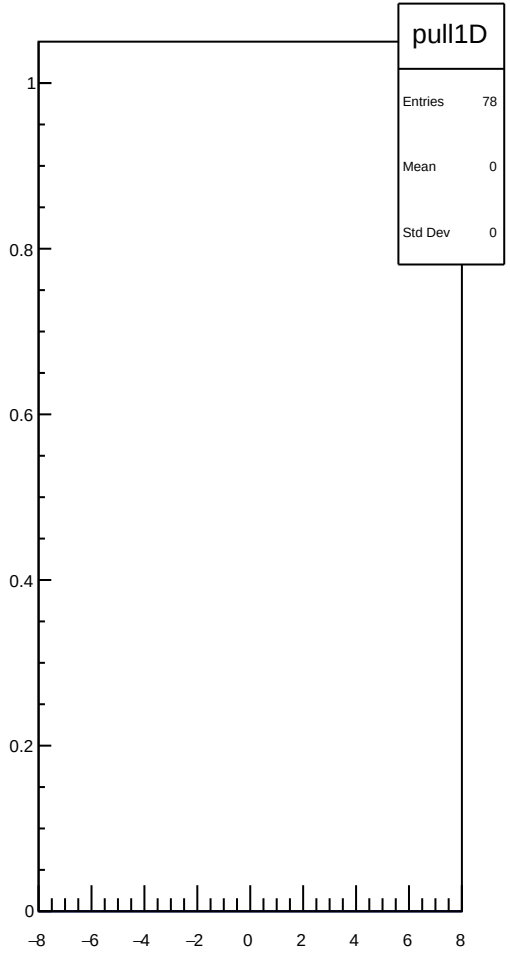

yield_bpm11Y_rms vs run
χ² / ndf 2.848e+05 / 77
p0 0.003385 ± 3.073e−06
0.1
0.08
0.06
0.04
0.02

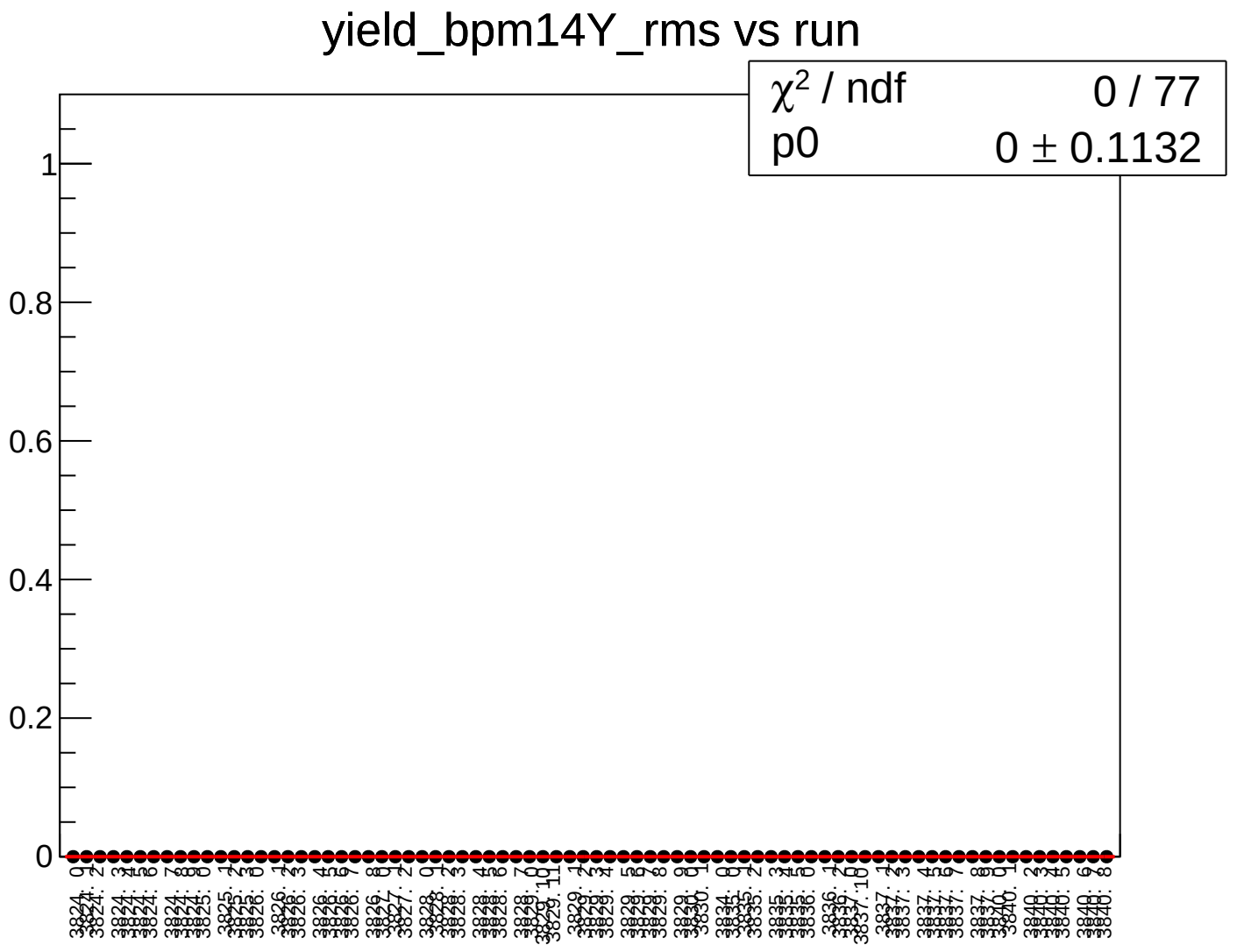

yield_bpm14X_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

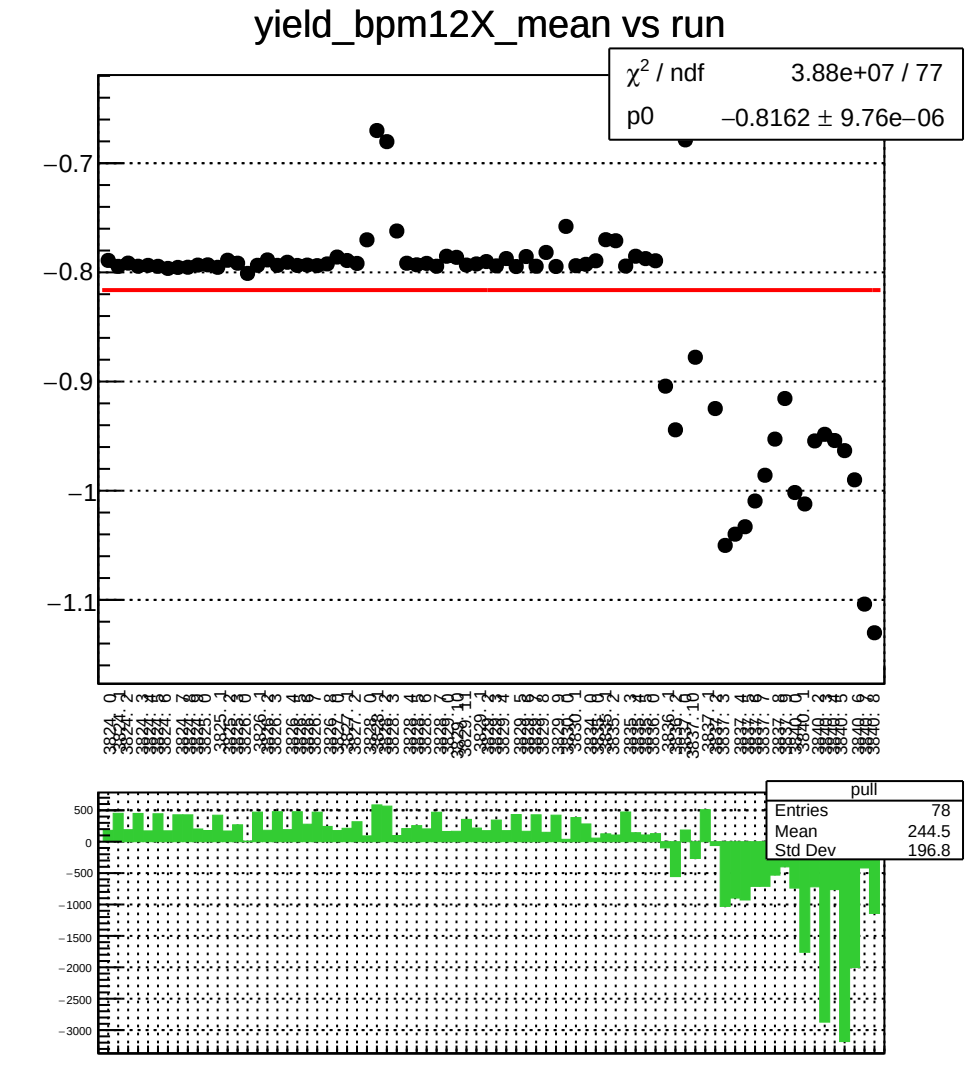

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

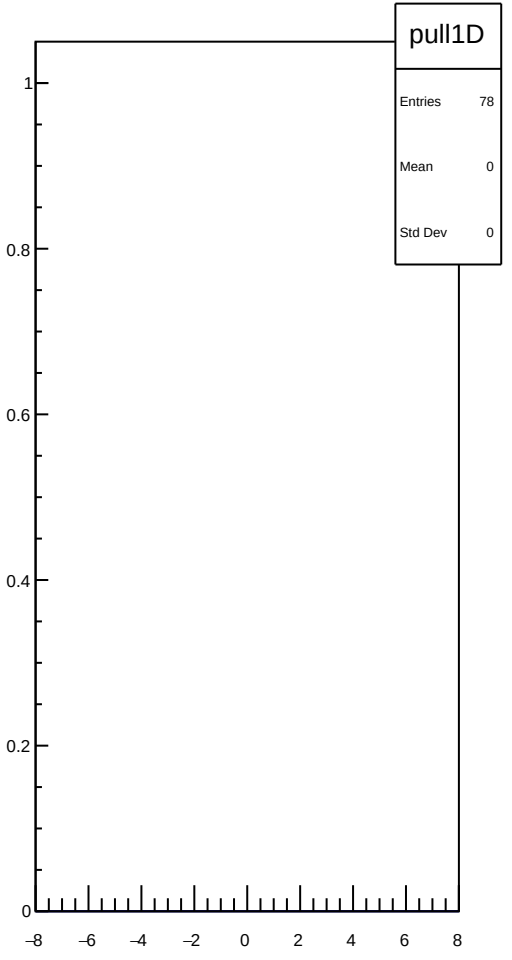

yield_bpm14X_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

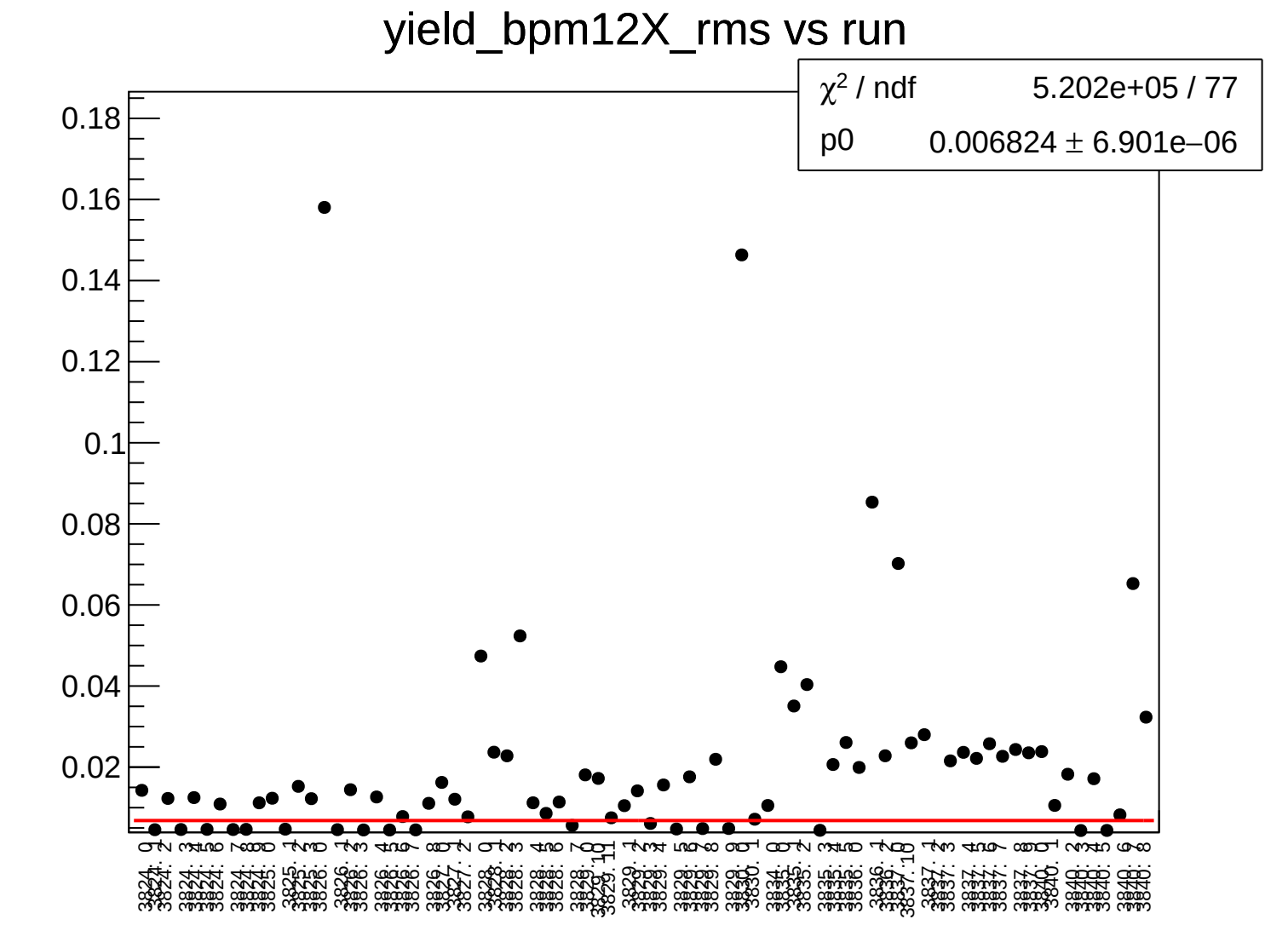

yield_bpm14Y_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

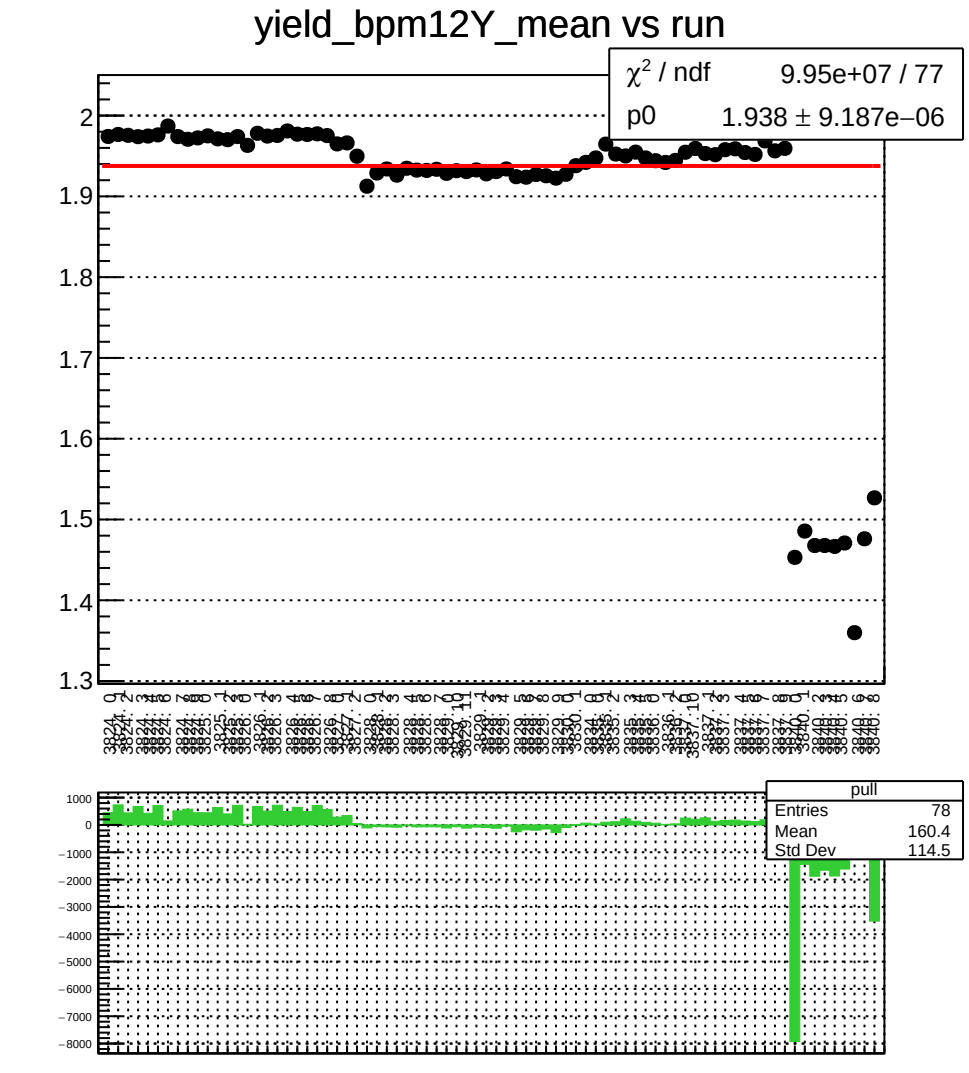

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

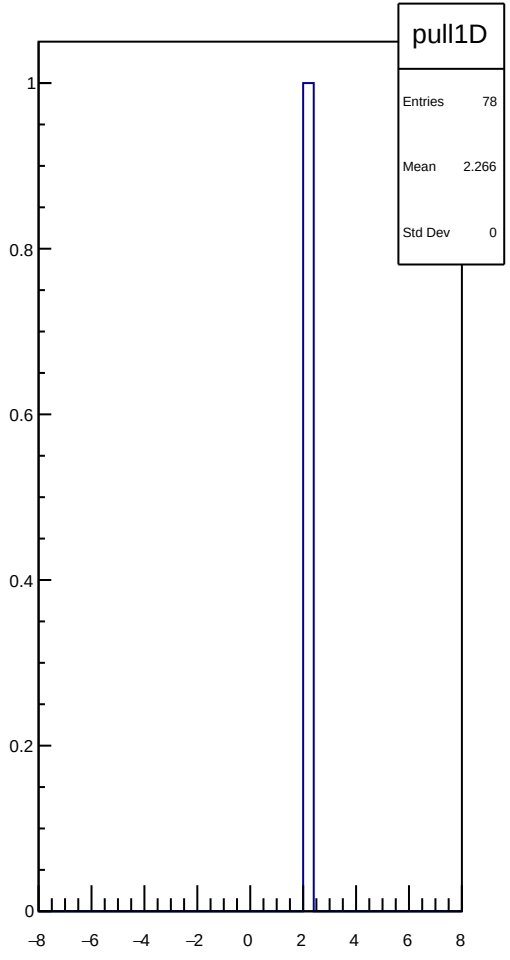

yield_bpm14Y_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

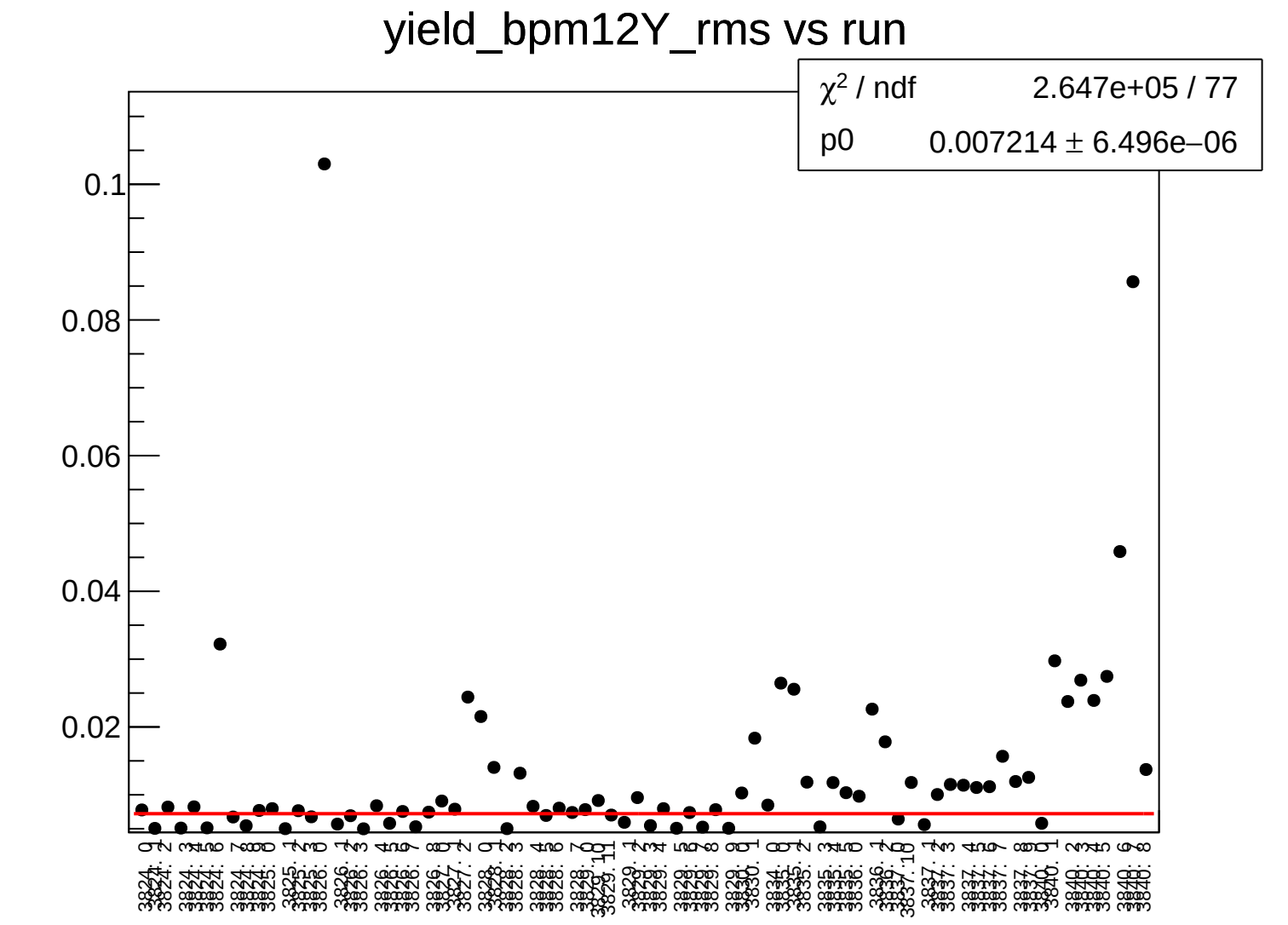

yield_bpm12X_mean vs run
χ² / ndf 3.88e+07 / 77
p0 −0.8162 ± 9.76e−06
−0.7
−0.8
−0.9
−1
−1.1
pull
Entries 78
Mean 244.5
Std Dev 196.8
500
0
−500
−1000
−1500
−2000
−2500
−3000

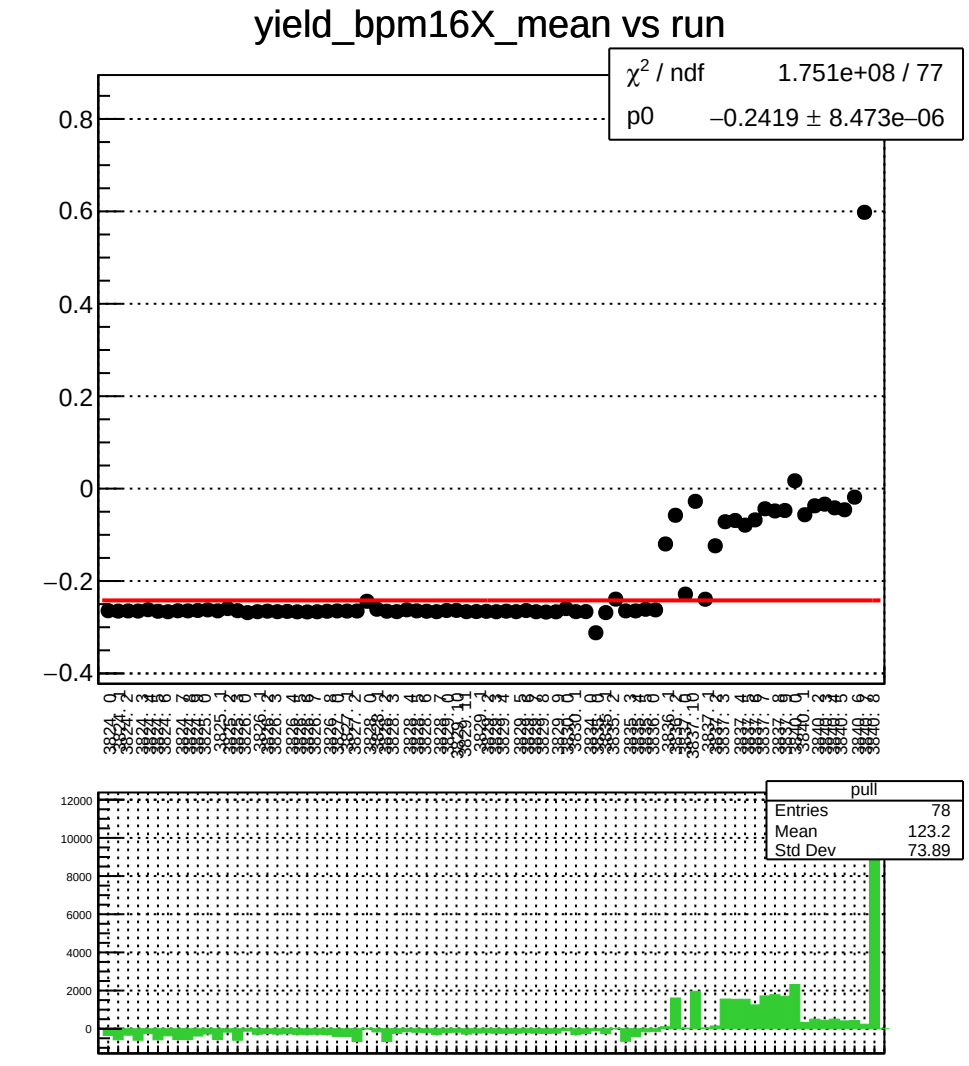

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

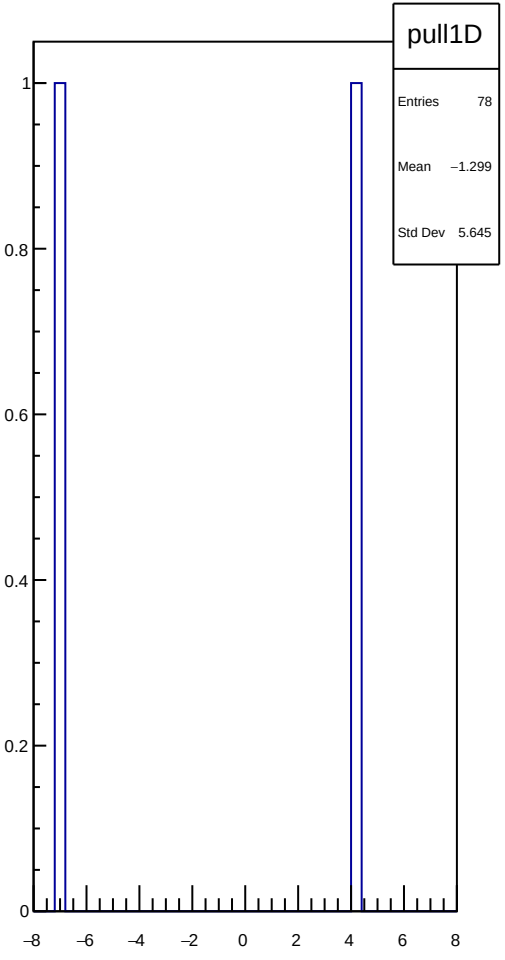

yield_bpm12X_rms vs run
χ^2 / ndf 5.202e+05 / 77
p0 0.006824 ± 6.901e−06
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

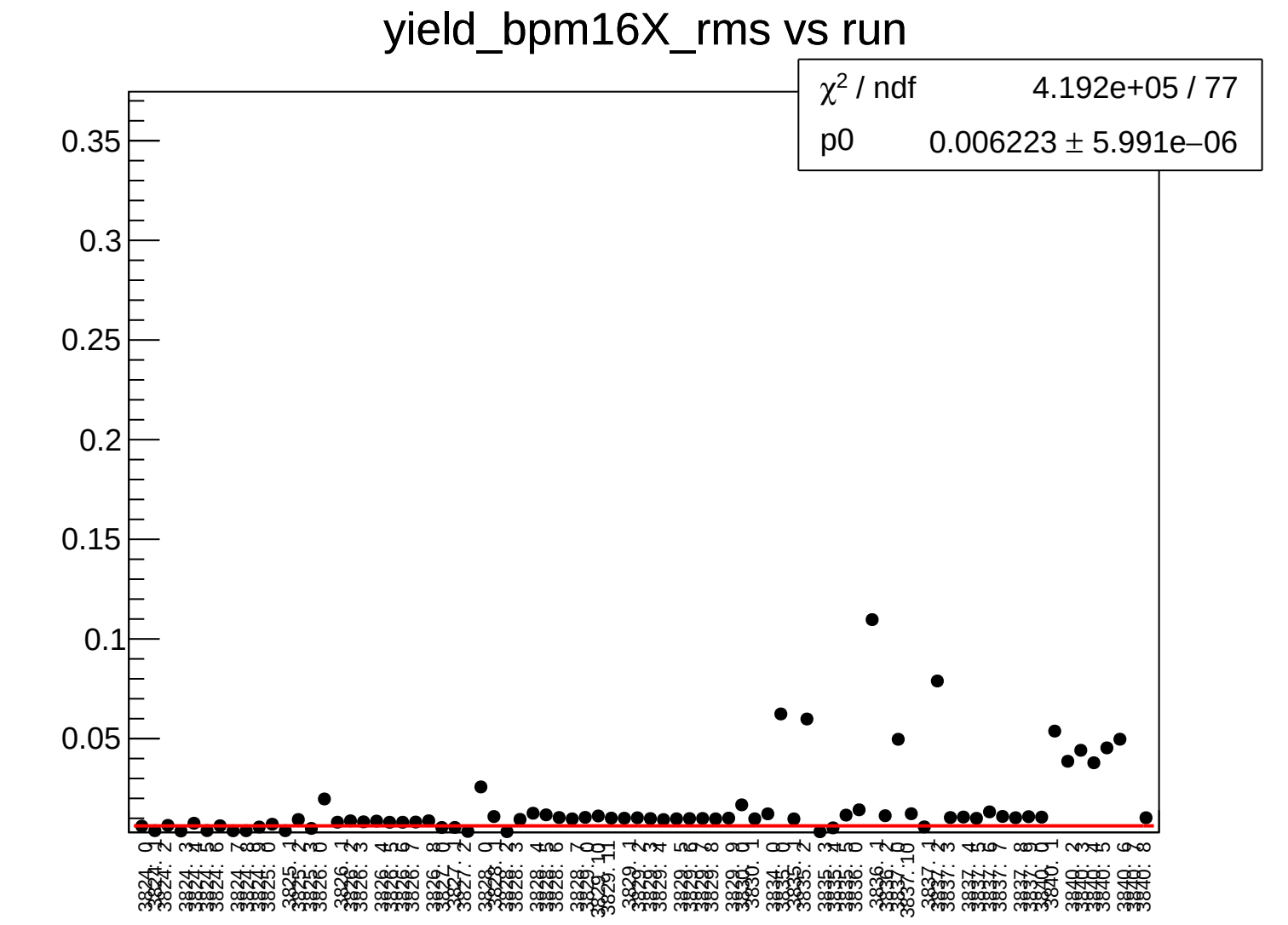

yield_bpm12Y_mean vs run
χ² / ndf 9.95e+07 / 77
p0 1.938 ± 9.187e−06
pull
Entries 78
Mean 160.4
Std Dev 114.5

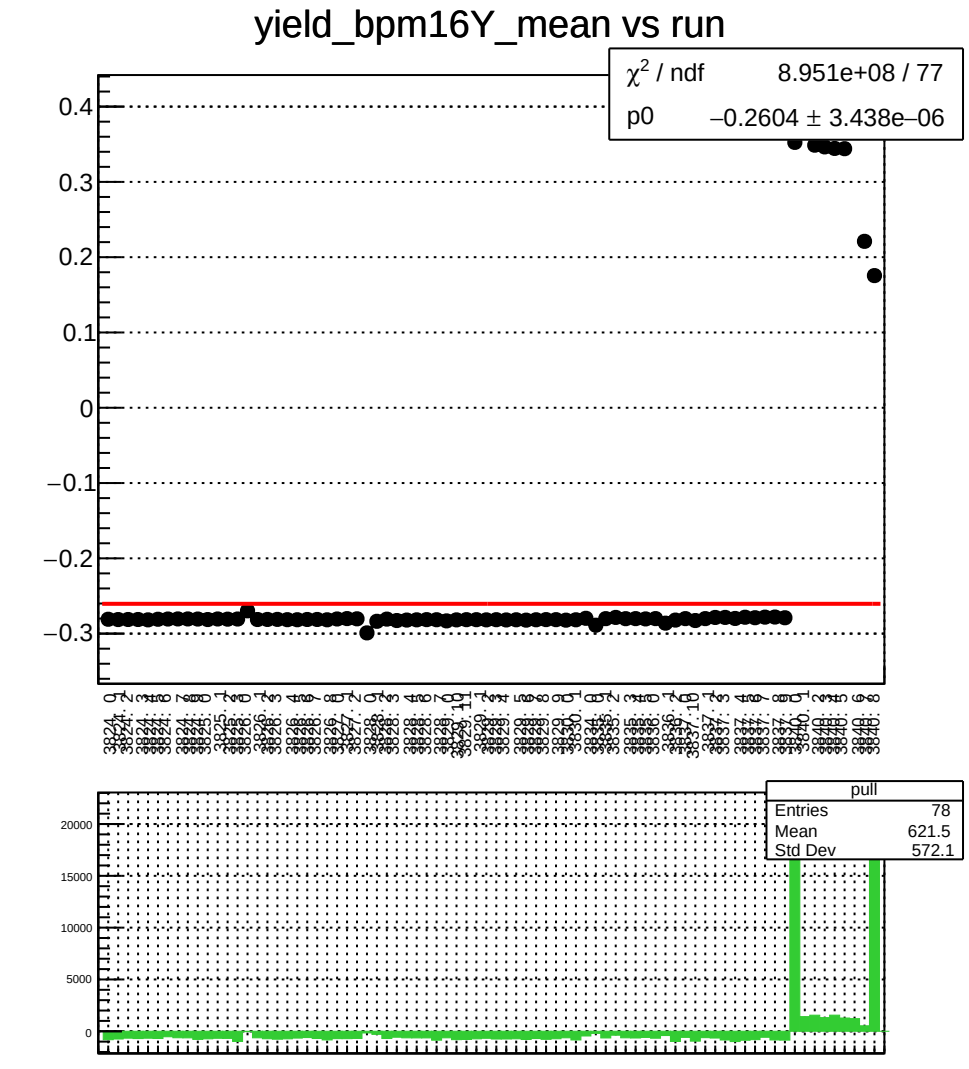

pull1D
Entries 78
Mean 2.266
Std Dev 0

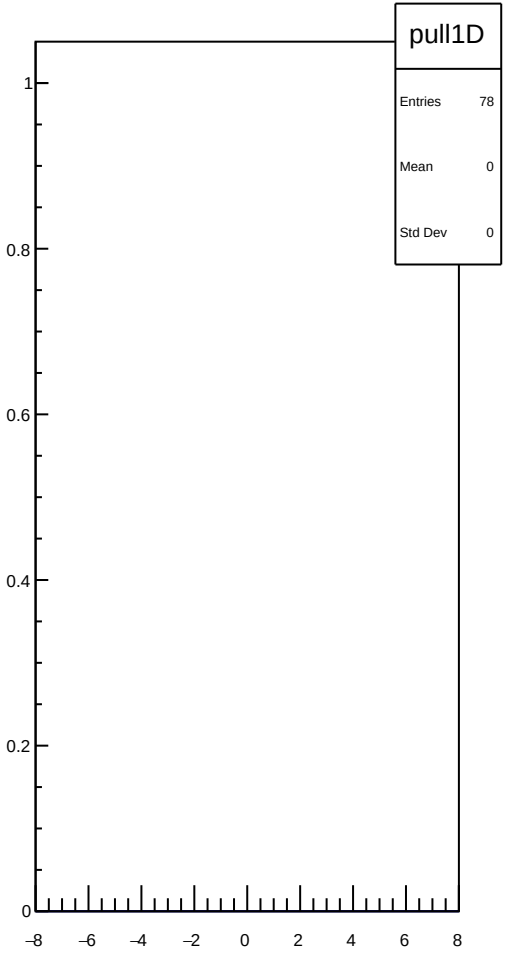

yield_bpm12Y_rms vs run
χ^2 / ndf 2.647e+05 / 77
p0 0.007214 ± 6.496e−06
0.1
0.08
0.06
0.04
0.02

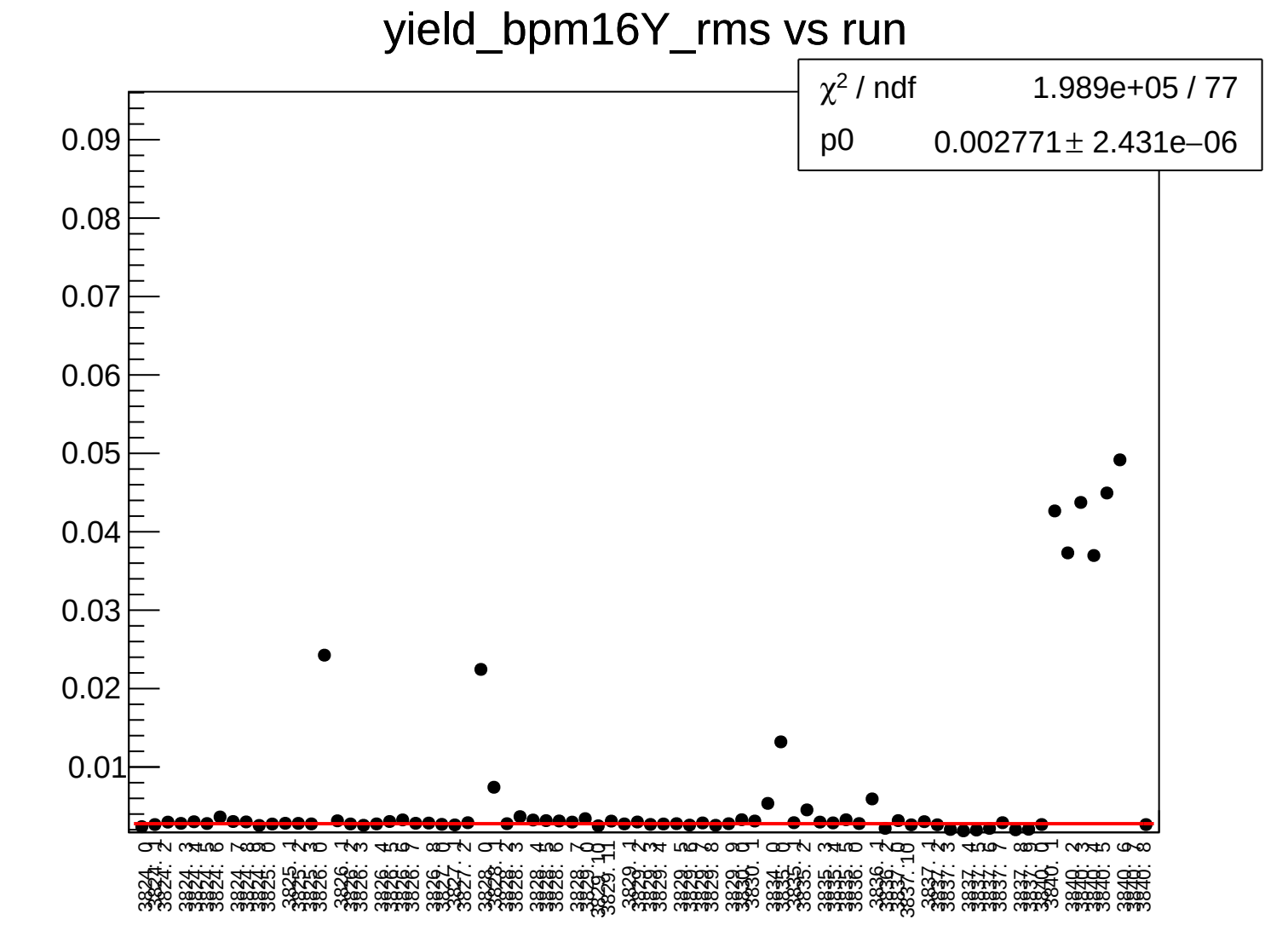

yield_bpm16X_mean vs run
χ² / ndf 1.751e+08 / 77
p0 −0.2419 ± 8.473e−06
pull
Entries 78
Mean 123.2
Std Dev 73.89

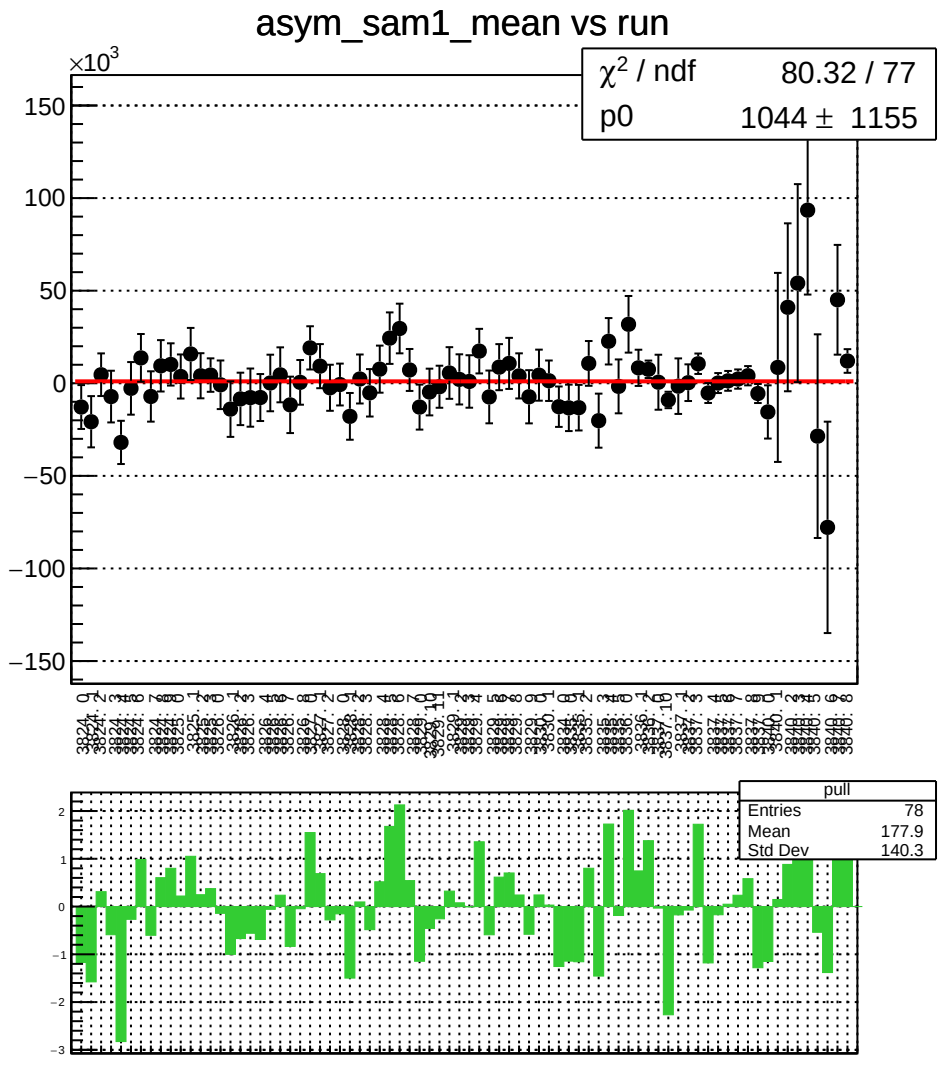

pull1D
Entries 78
Mean −1.299
Std Dev 5.645

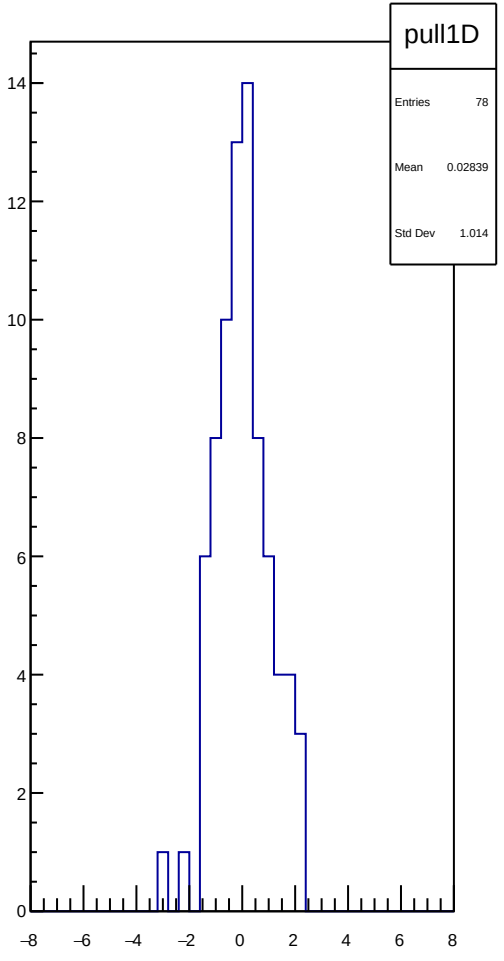

yield_bpm16X_rms vs run
χ² / ndf 4.192e+05 / 77
p0 0.006223 ± 5.991e−06
0.35
0.3
0.25
0.2
0.15
0.1
0.05

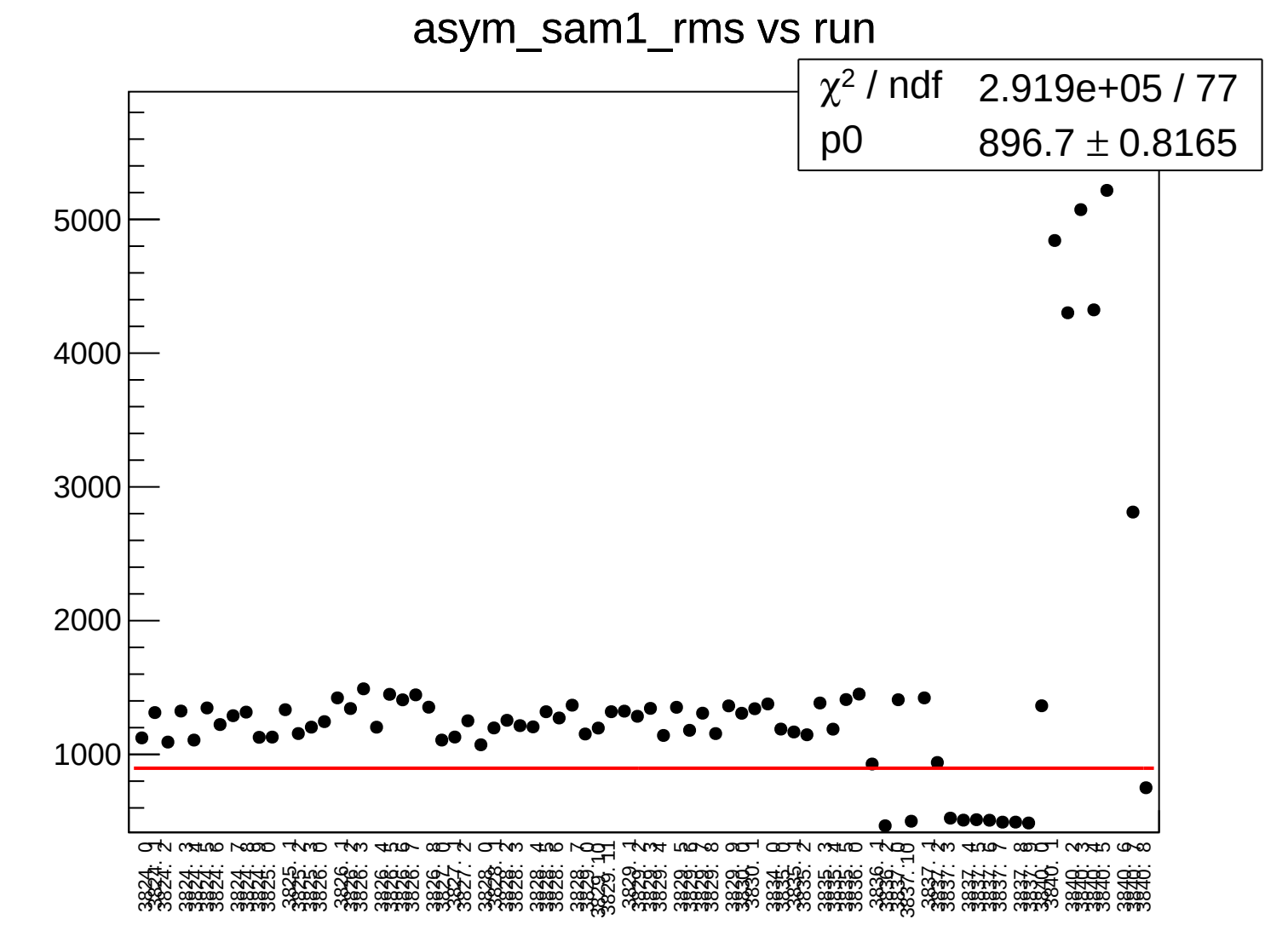

yield_bpm16Y_mean vs run
χ² / ndf 8.951e+08 / 77
p0 −0.2604 ± 3.438e−06
pull
Entries 78
Mean 621.5
Std Dev 572.1

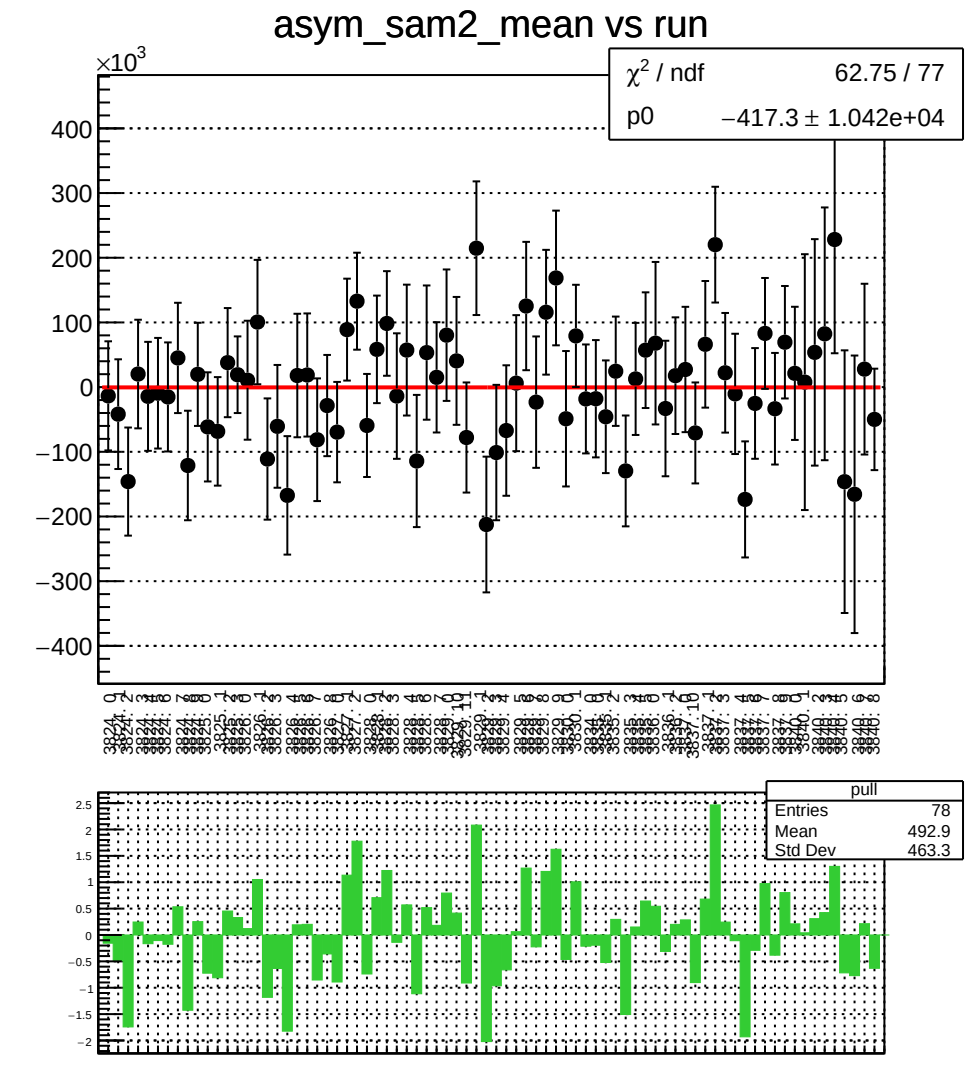

pull1D
Entries 78
Mean 0
Std Dev 0

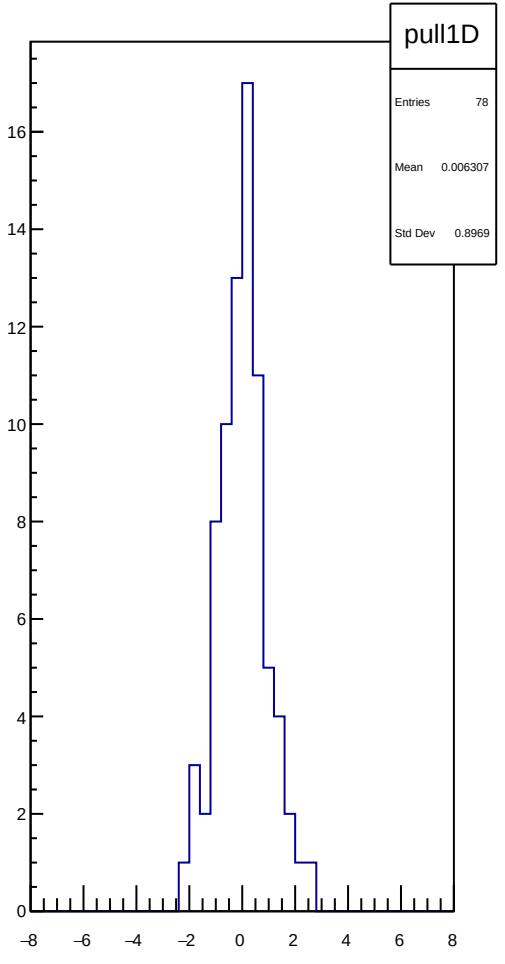

yield_bpm16Y_rms vs run
χ² / ndf 1.989e+05 / 77
p0 0.002771 ± 2.431e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

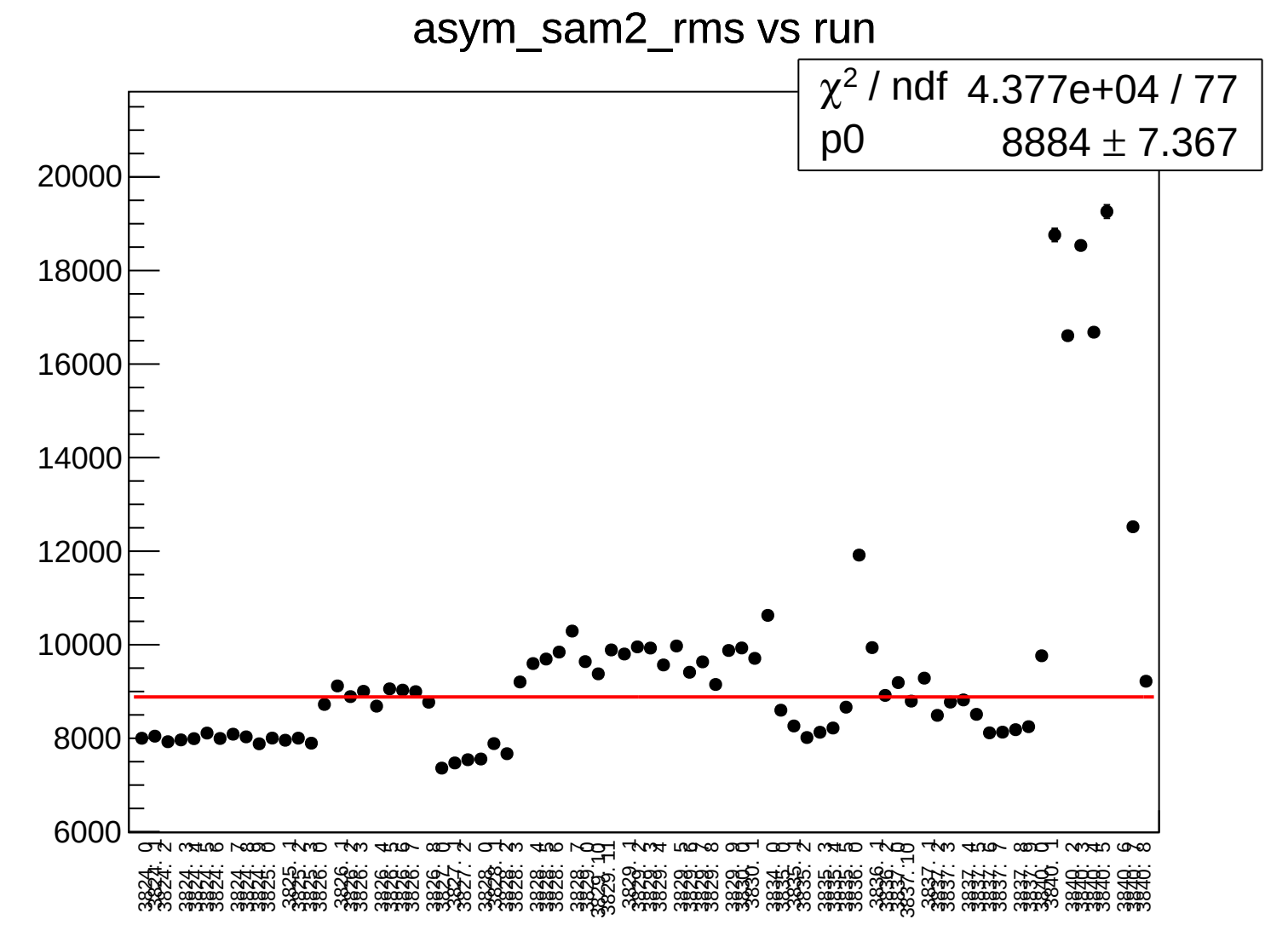

asym_sam1_mean vs run
×10^3
χ^2 / ndf 80.32 / 77
p0 1044 ± 1155
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 177.9
Std Dev 140.3
2
1
0
−1
−2
−3

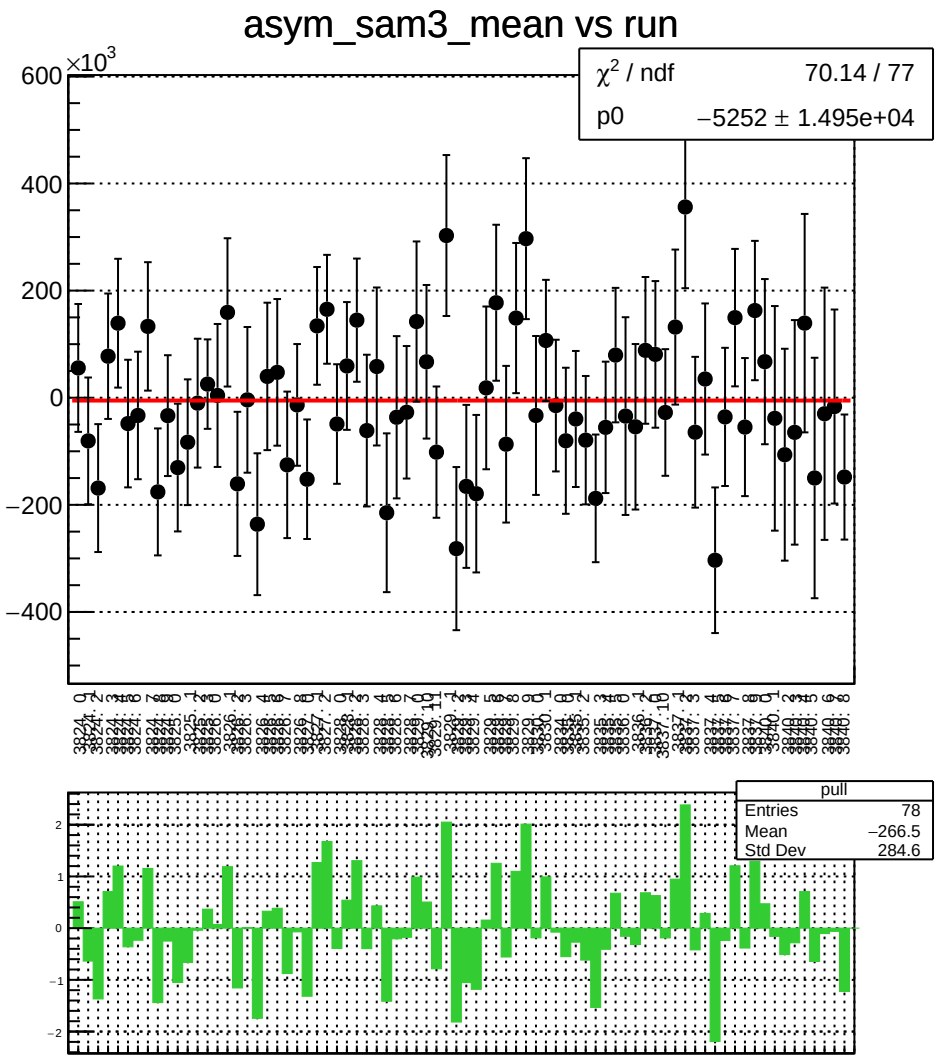

pull1D
Entries 78
Mean 0.02839
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

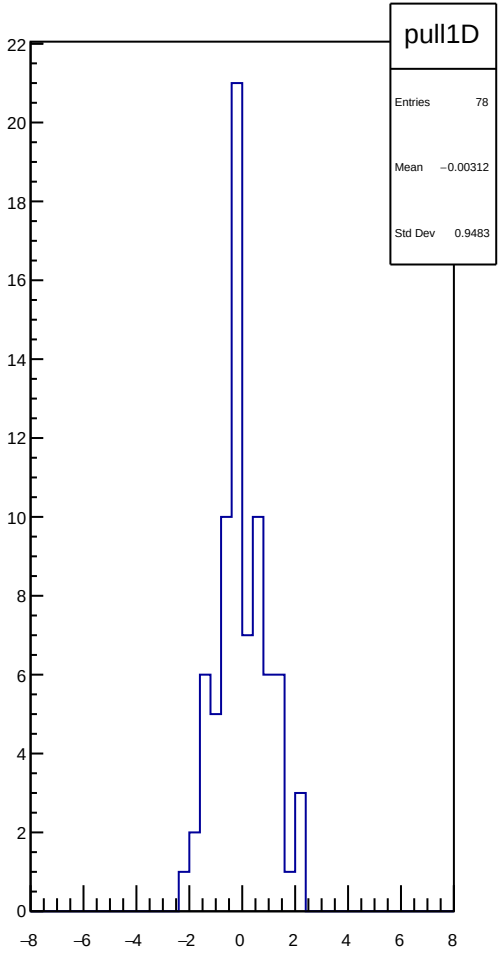

asym_sam1_rms vs run
χ² / ndf 2.919e+05 / 77
p0 896.7 ± 0.8165
5000
4000
3000
2000
1000

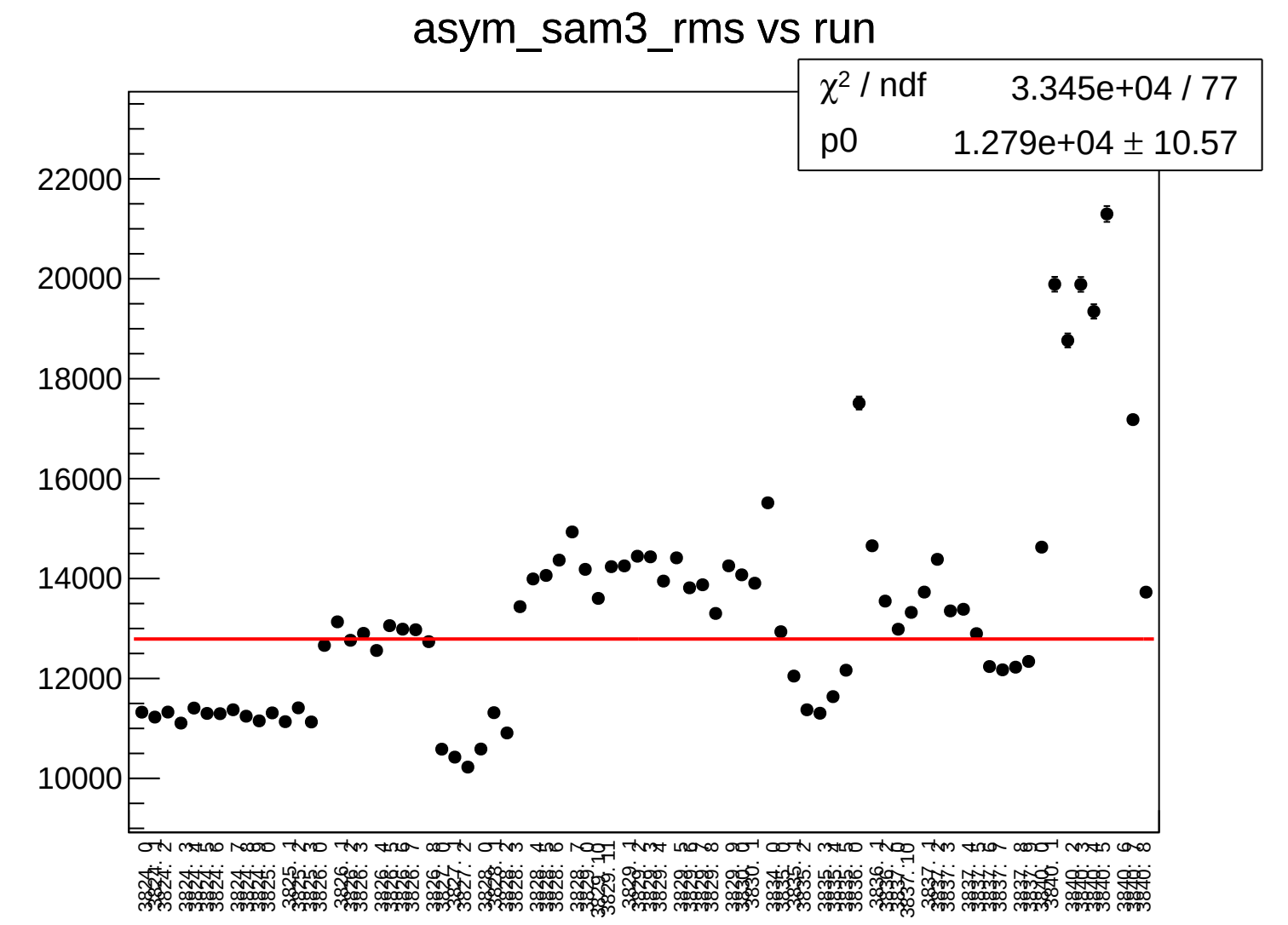

asym_sam2_mean vs run
×10^3
χ² / ndf 62.75 / 77
p0 −417.3 ± 1.042e+04
pull
Entries 78
Mean 492.9
Std Dev 463.3

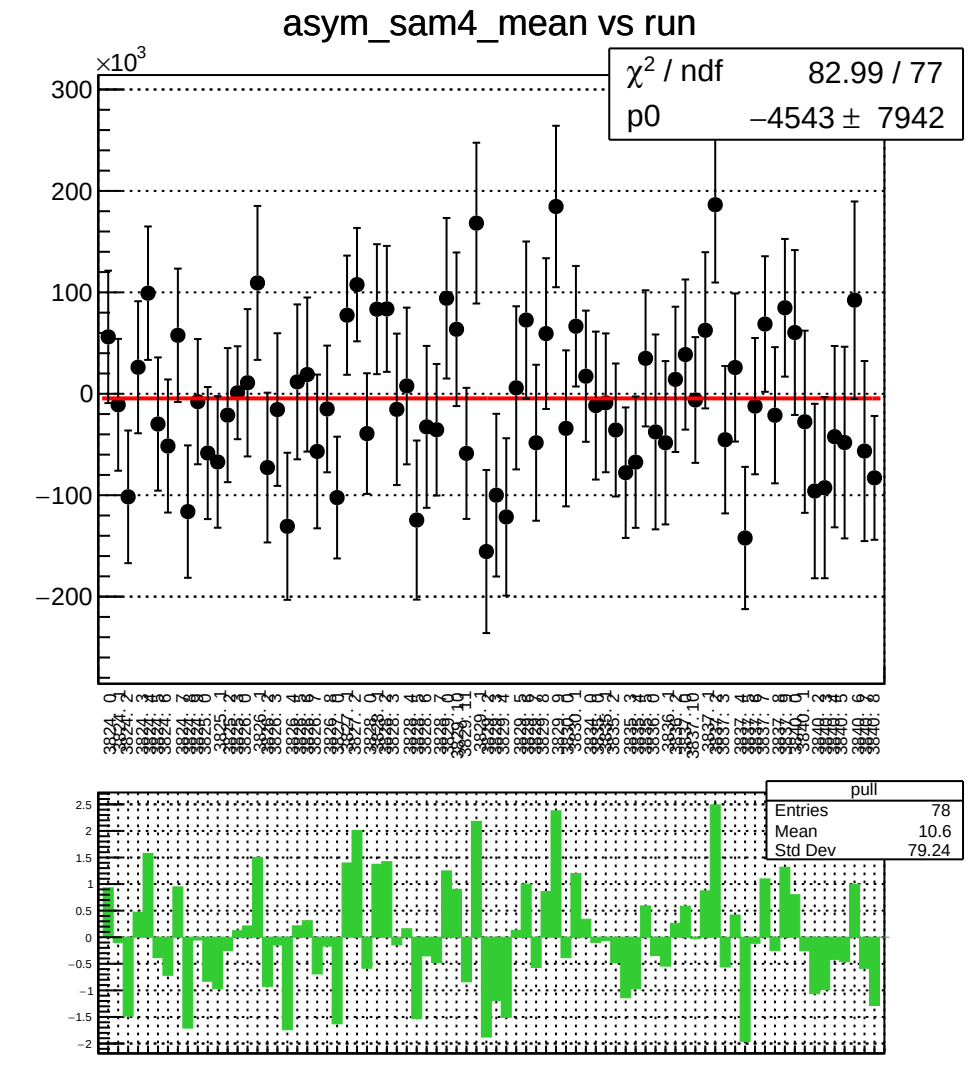

pull1D
Entries 78
Mean 0.006307
Std Dev 0.8969

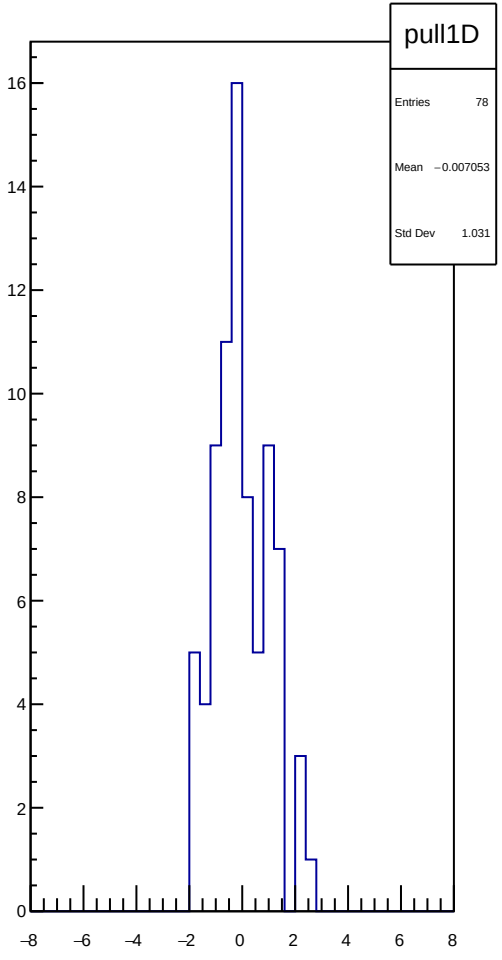

asym_sam2_rms vs run
χ² / ndf 4.377e+04 / 77
p0 8884 ± 7.367
20000
18000
16000
14000
12000
10000
8000
6000

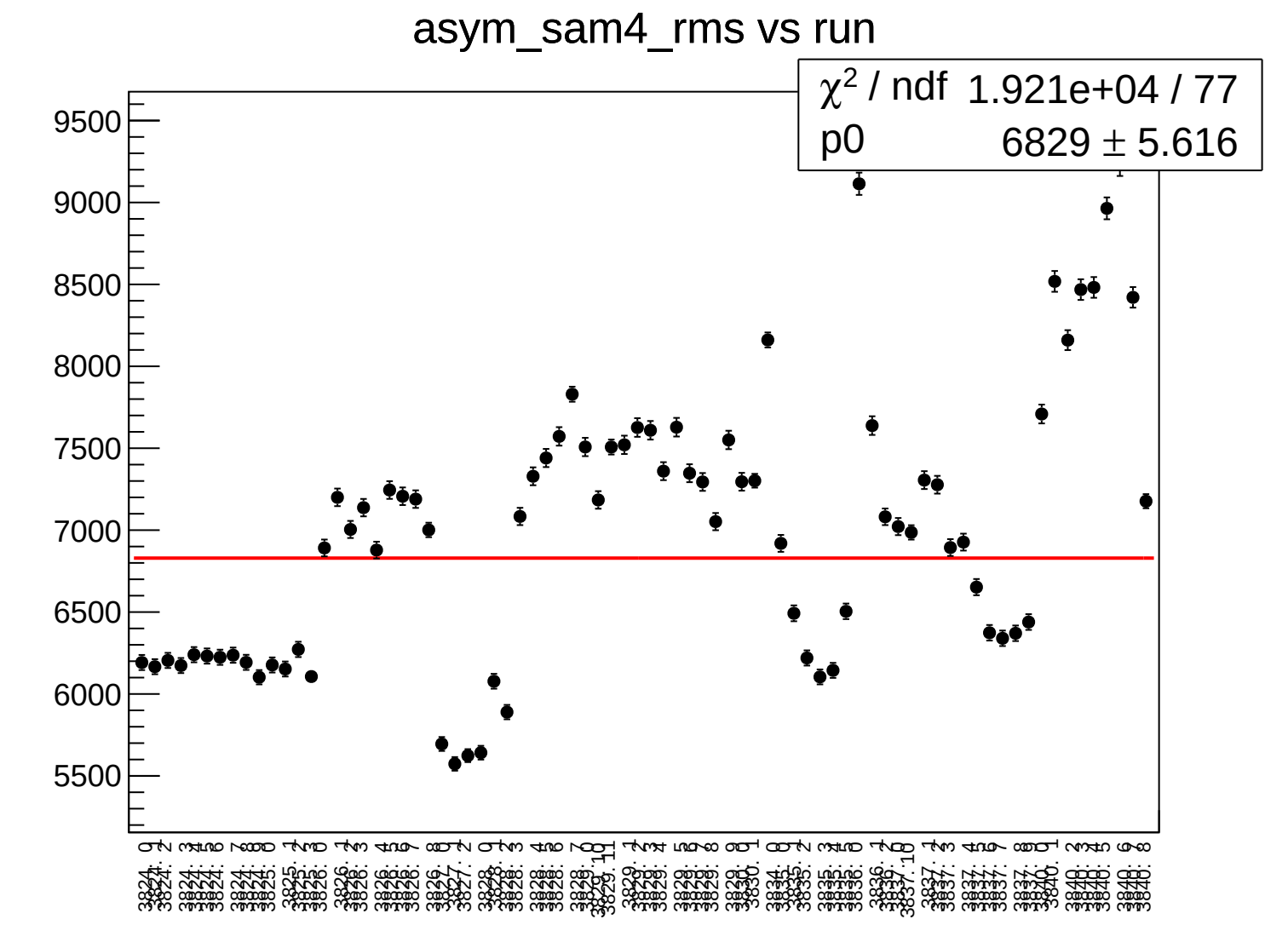

asym_sam3_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 70.14 / 77
p0 −5252 ± 1.495e+04
pull
Entries 78
Mean −266.5
Std Dev 284.6
2
1
0
−1
−2

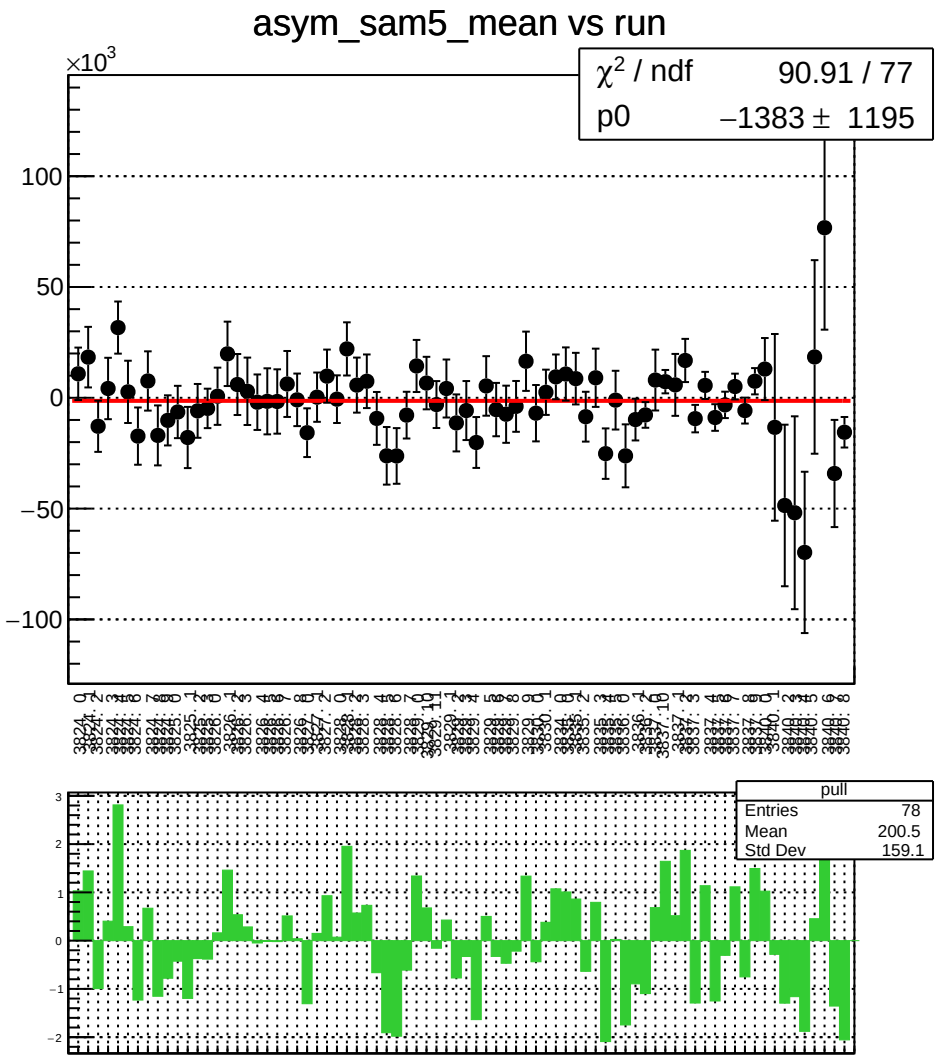

pull1D
Entries 78
Mean −0.00312
Std Dev 0.9483
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

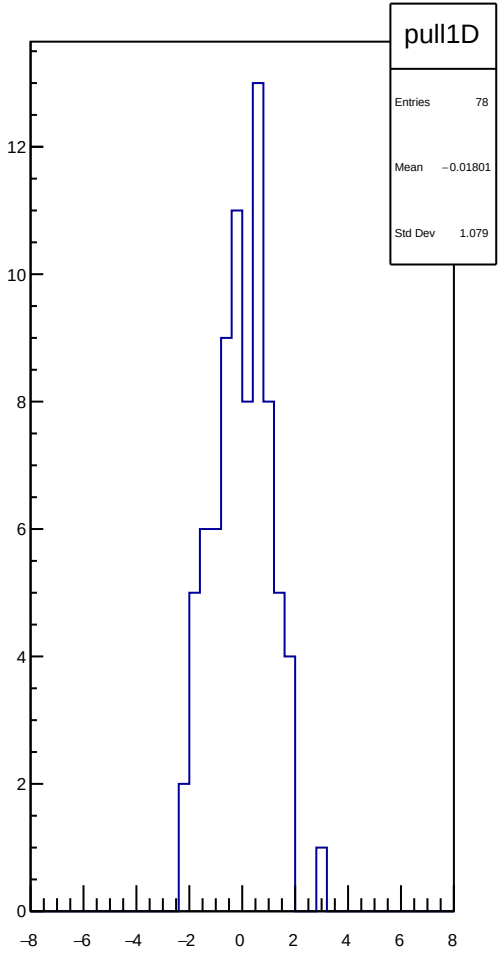

asym_sam3_rms vs run
χ² / ndf 3.345e+04 / 77
p0 1.279e+04 ± 10.57
22000
20000
18000
16000
14000
12000
10000

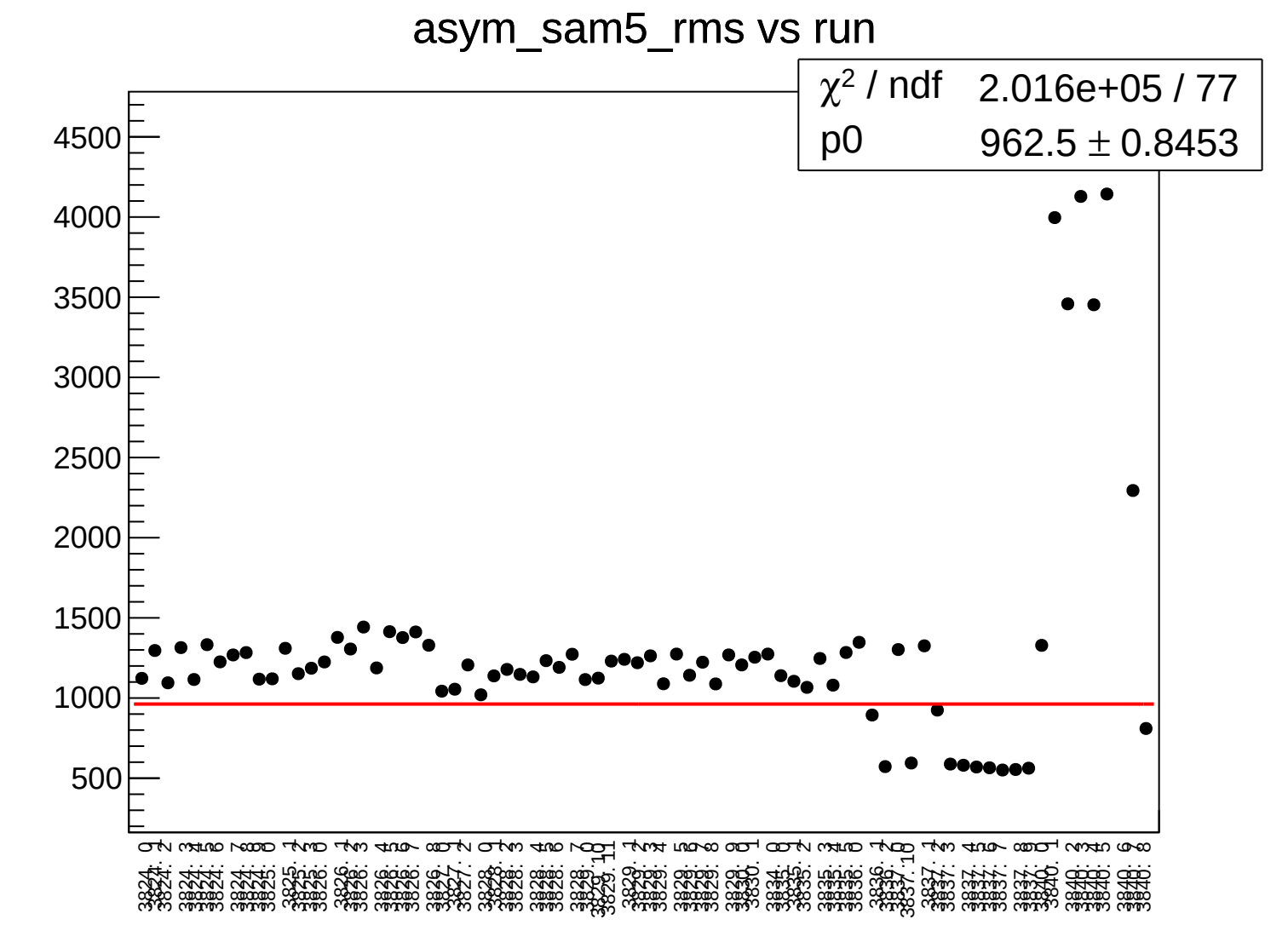

asym_sam4_mean vs run
×10^3
χ² / ndf 82.99 / 77
p0 −4543 ± 7942
pull
Entries 78
Mean 10.6
Std Dev 79.24

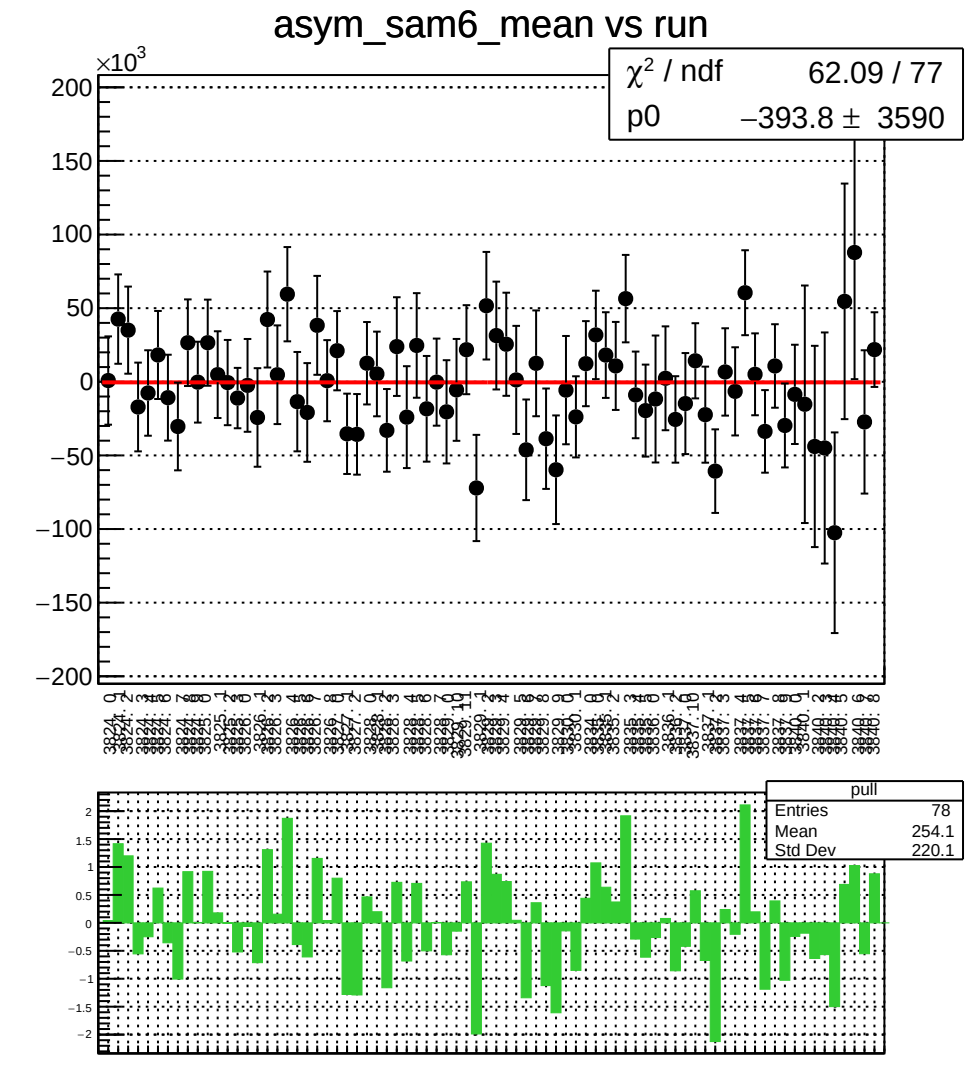

pull1D
Entries 78
Mean −0.007053
Std Dev 1.031

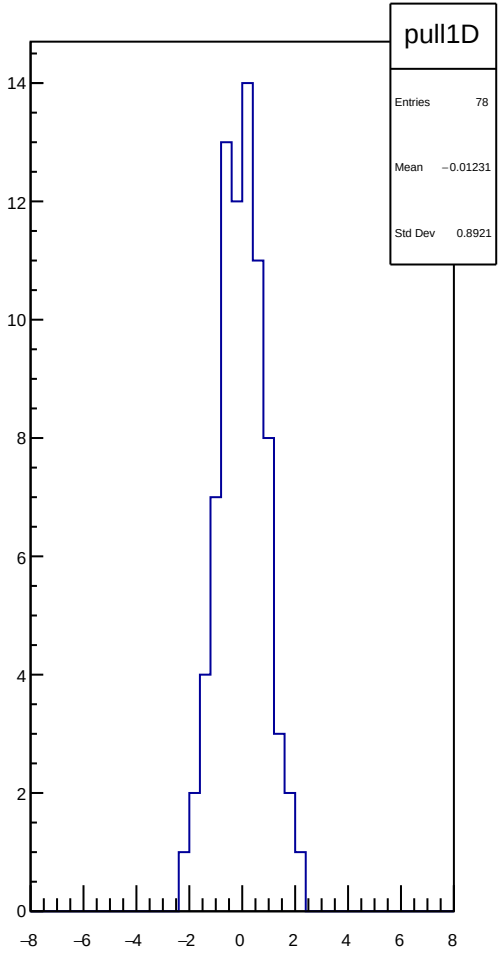

asym_sam4_rms vs run
χ² / ndf 1.921e+04 / 77
p0 6829 ± 5.616
9500
9000
8500
8000
7500
7000
6500
6000
5500

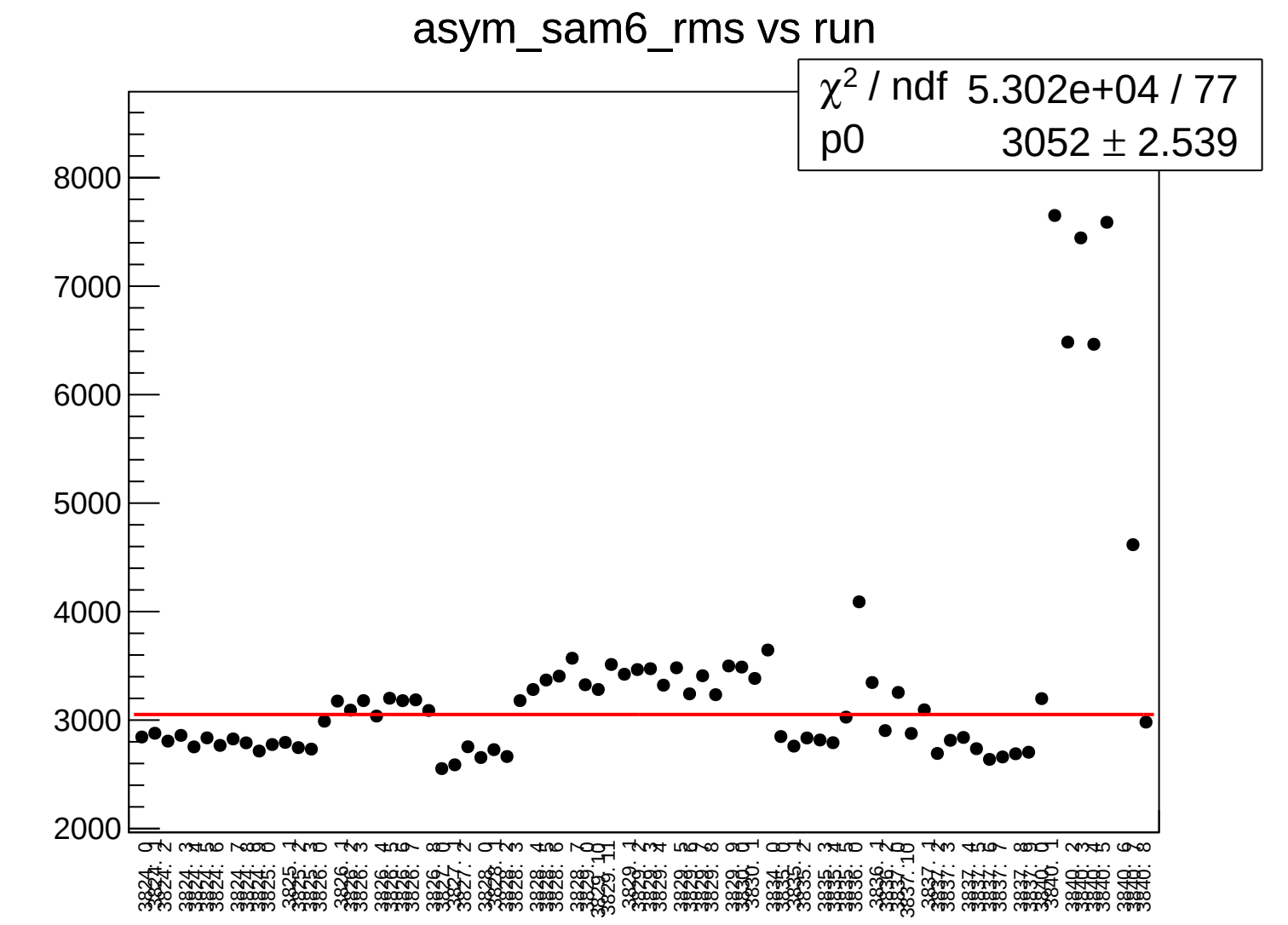

asym_sam5_mean vs run
×10^3
χ² / ndf 90.91 / 77
p0 −1383 ± 1195
100
50
0
−50
−100
pull
Entries 78
Mean 200.5
Std Dev 159.1
3
2
1
0
−1
−2

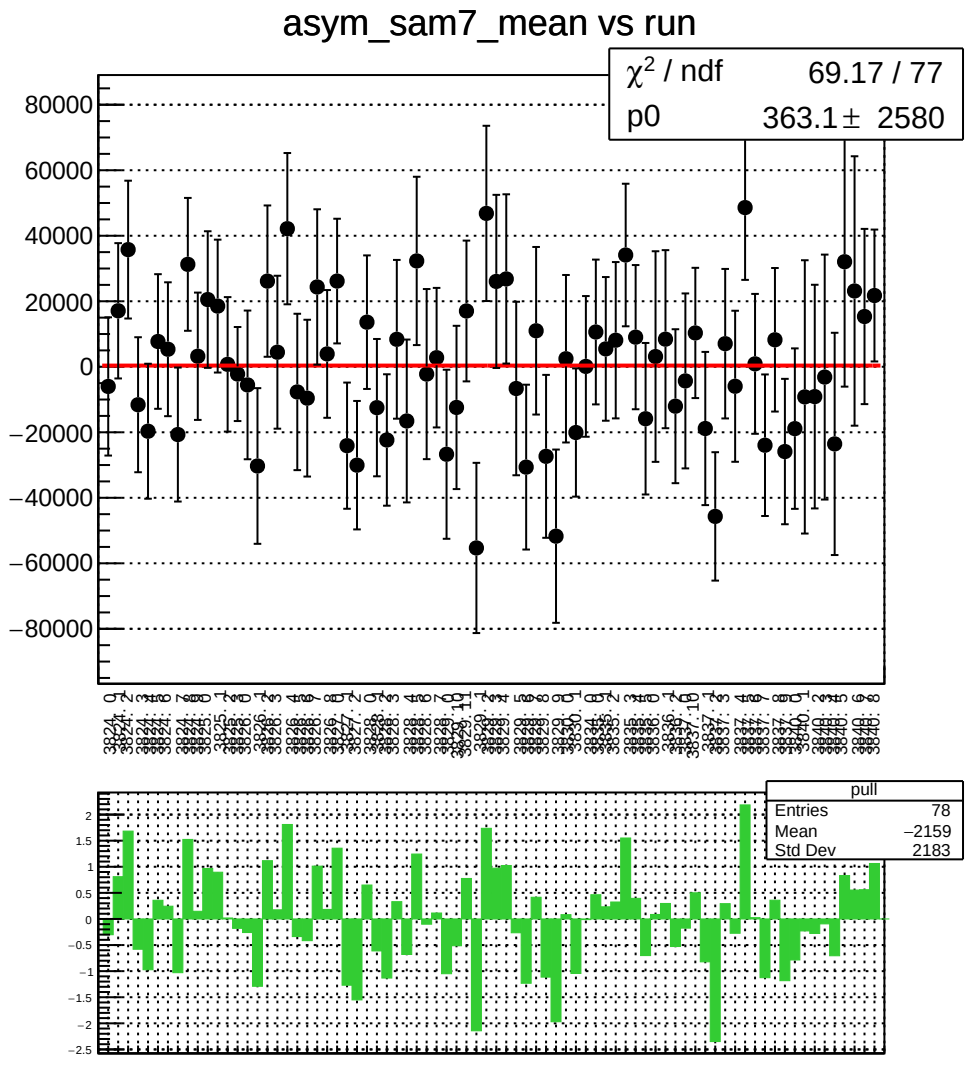

pull1D
Entries 78
Mean −0.01801
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

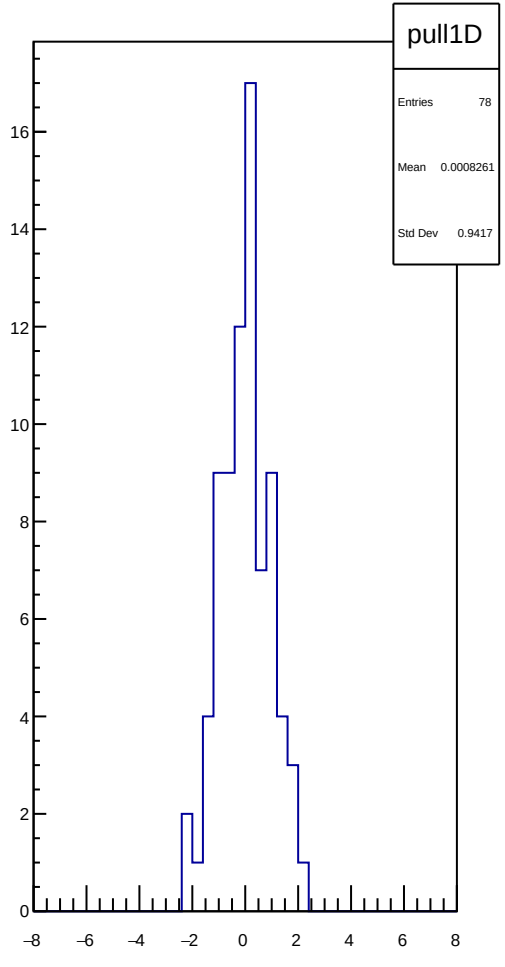

asym_sam5_rms vs run
χ² / ndf 2.016e+05 / 77
p0 962.5 ± 0.8453
4500
4000
3500
3000
2500
2000
1500
1000
500

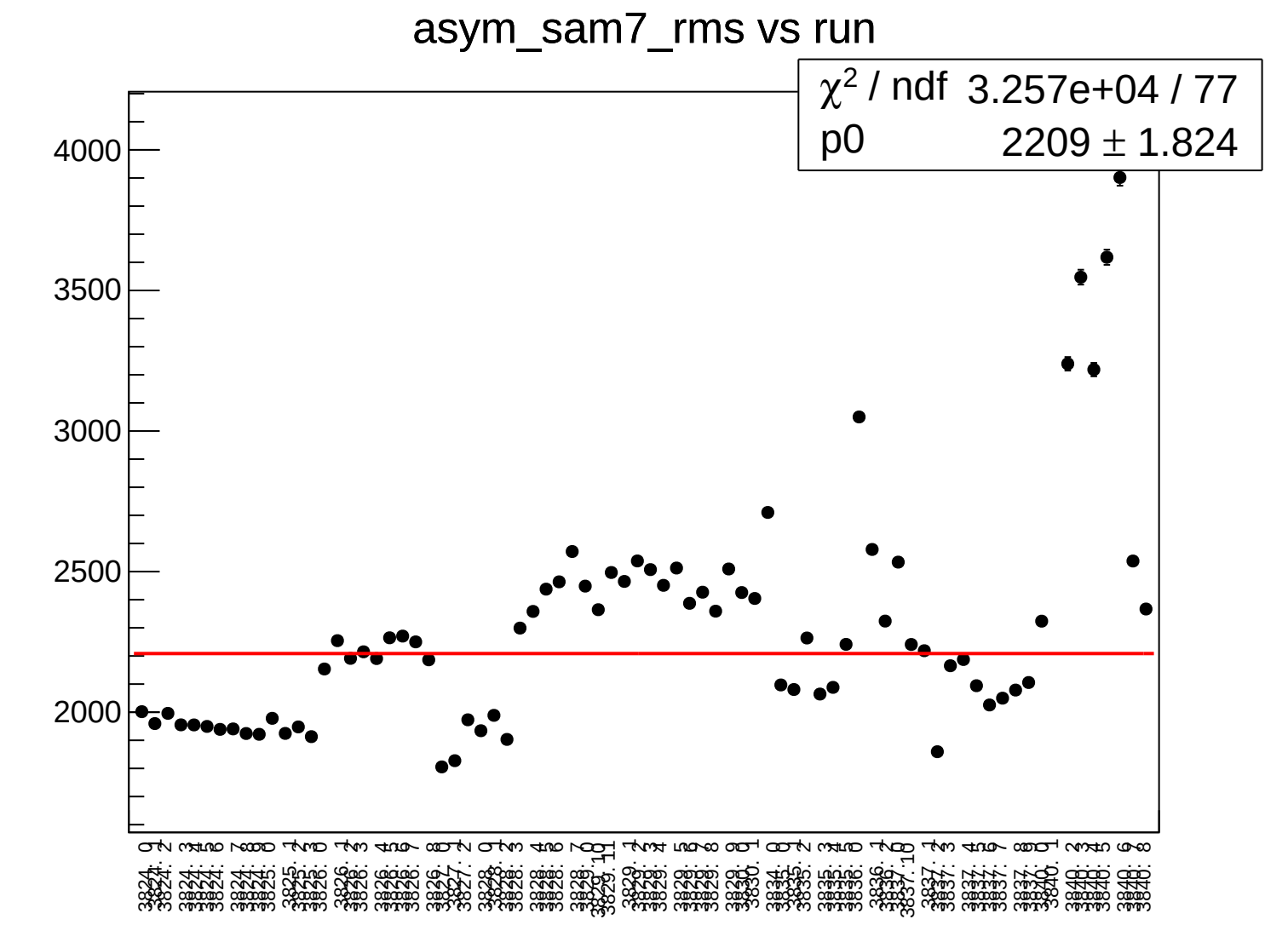

asym_sam6_mean vs run
×10^3
χ² / ndf 62.09 / 77
p0 −393.8 ± 3590
pull
Entries 78
Mean 254.1
Std Dev 220.1

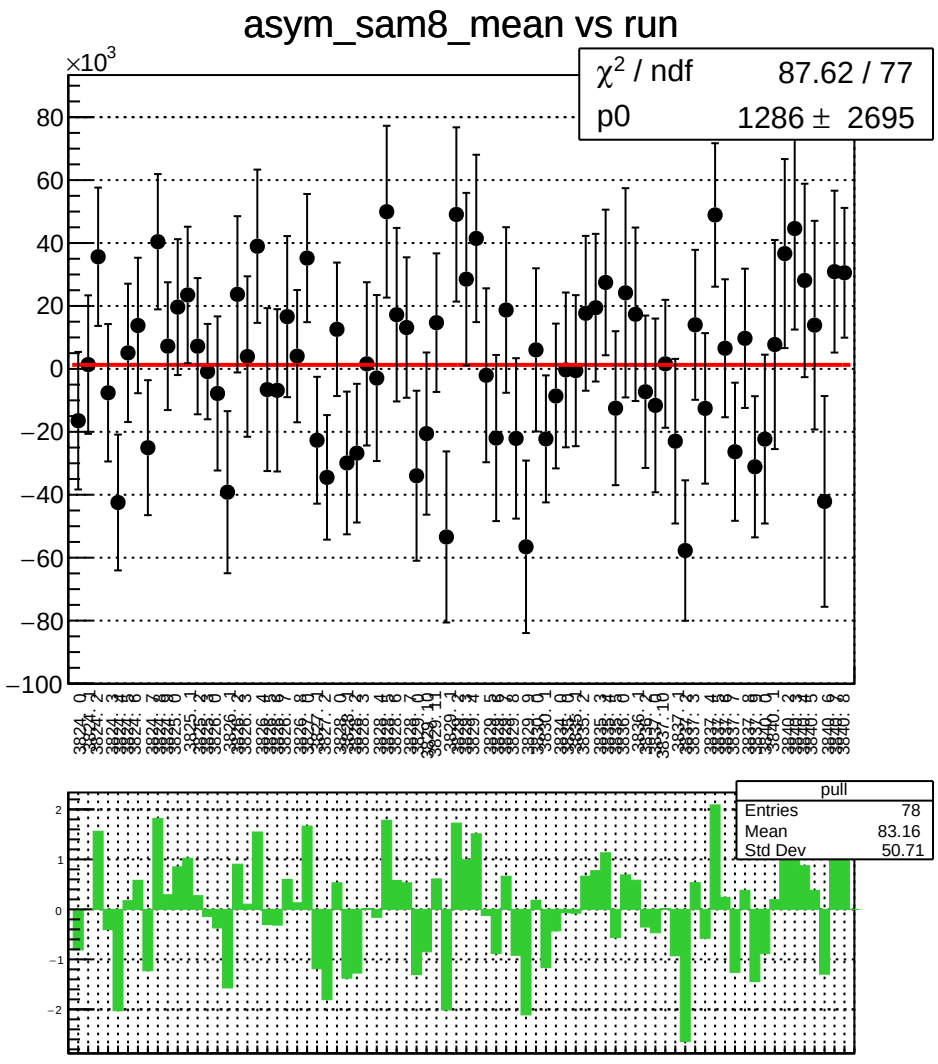

pull1D
Entries 78
Mean −0.01231
Std Dev 0.8921

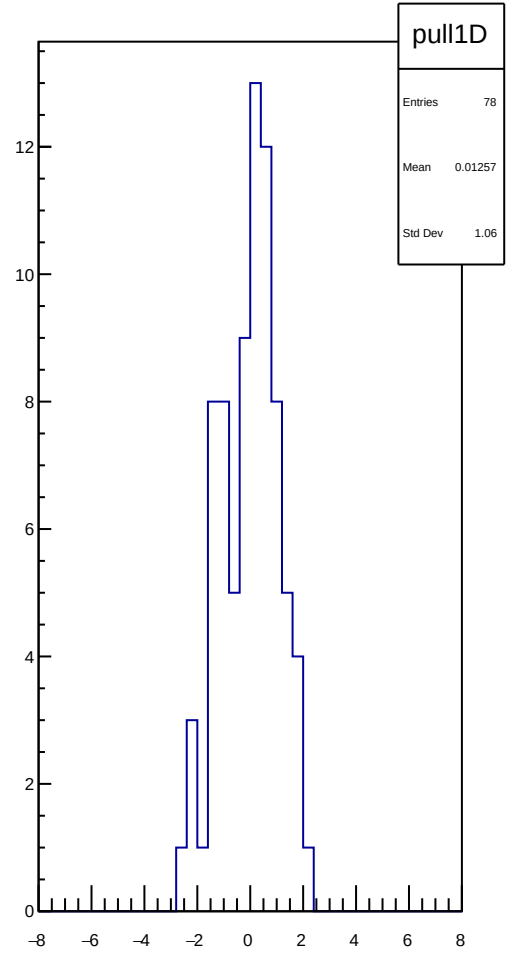

asym_sam6_rms vs run
χ² / ndf 5.302e+04 / 77
p0 3052 ± 2.539
8000
7000
6000
5000
4000
3000
2000

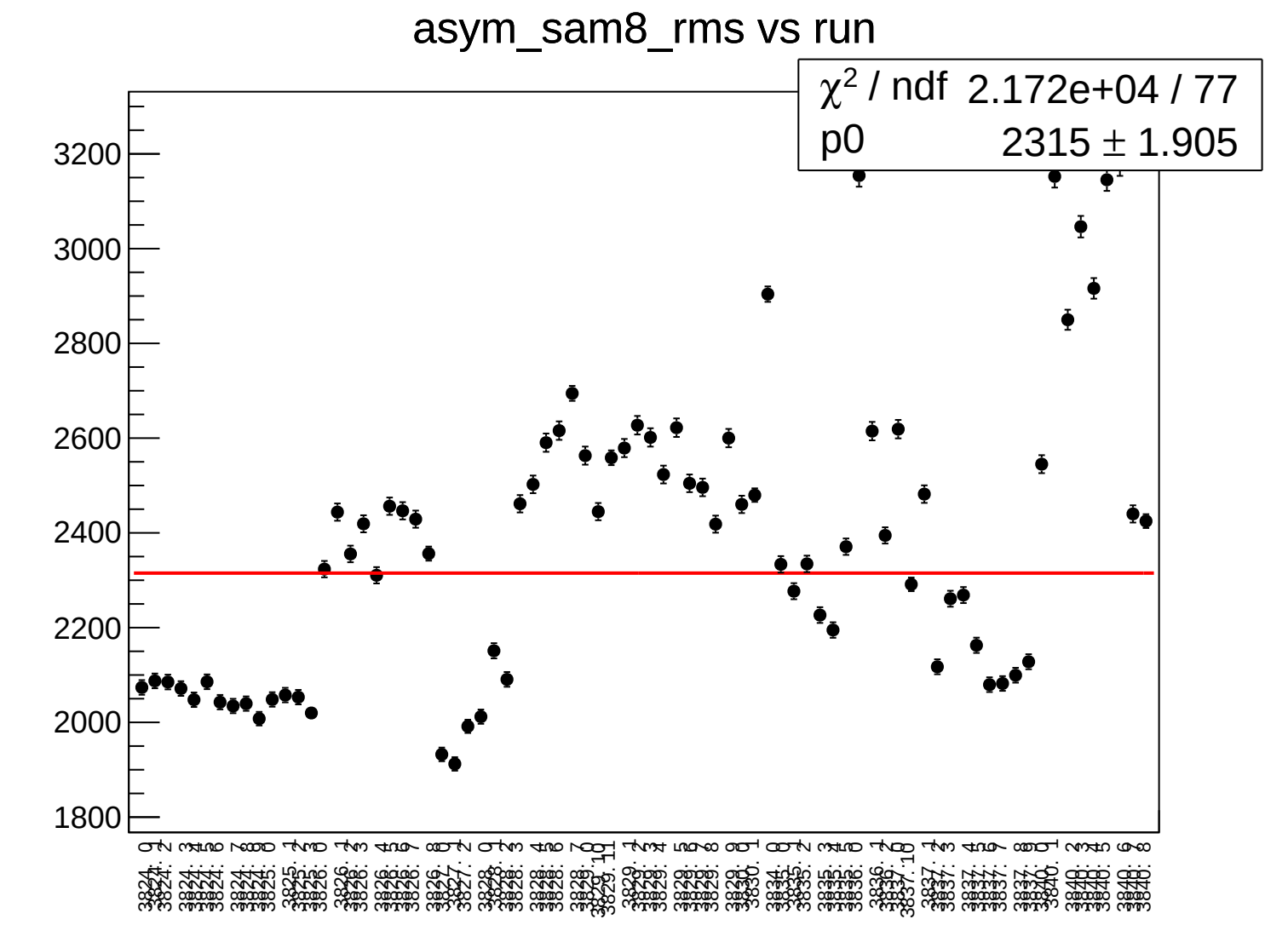

asym_sam7_mean vs run
χ² / ndf 69.17 / 77
p0 363.1 ± 2580
pull
Entries 78
Mean −2159
Std Dev 2183

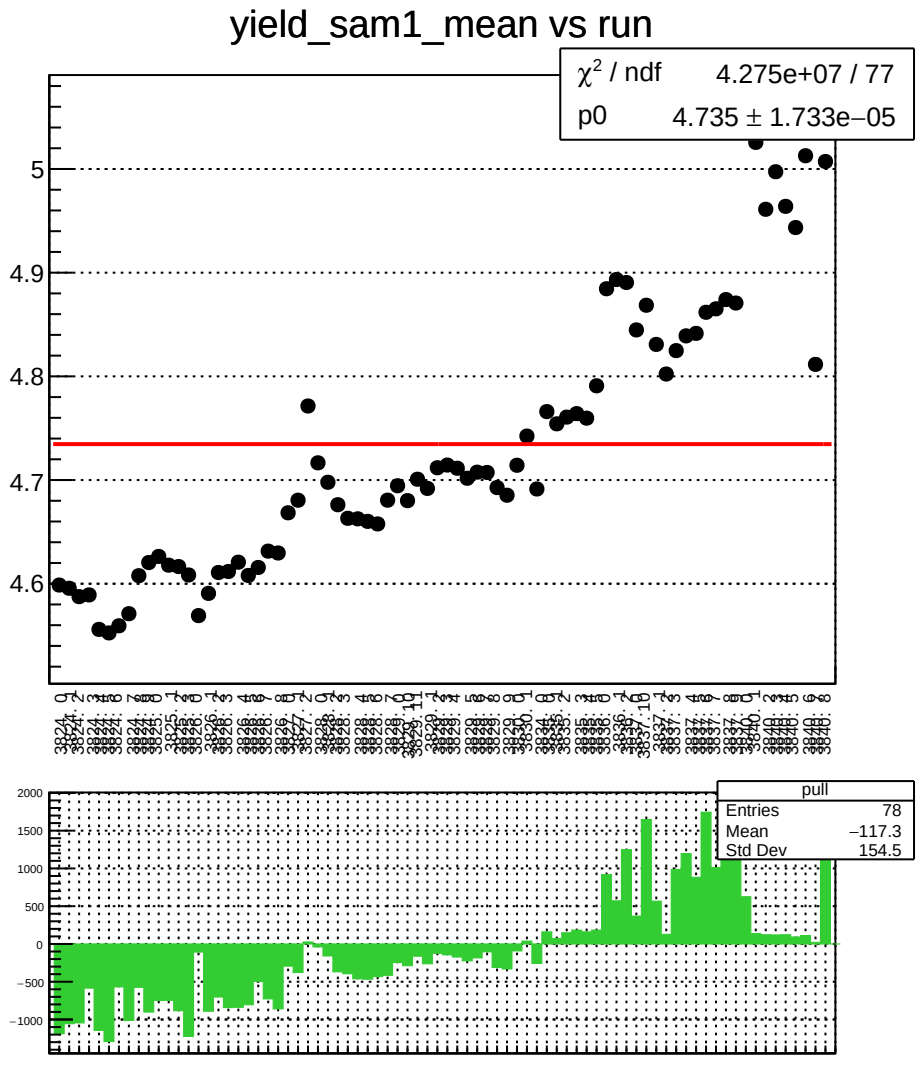

pull1D
Entries 78
Mean 0.0008261
Std Dev 0.9417

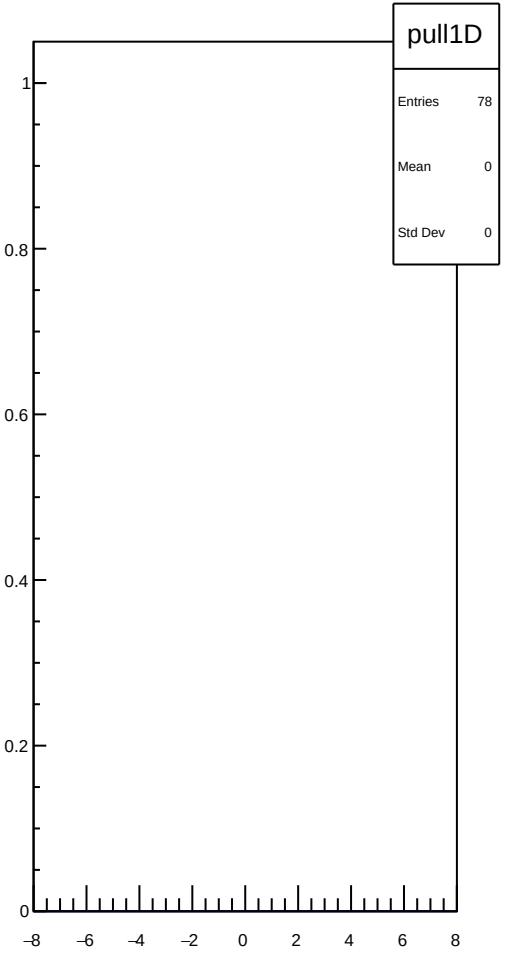

asym_sam7_rms vs run
χ² / ndf 3.257e+04 / 77
p0 2209 ± 1.824
4000
3500
3000
2500
2000

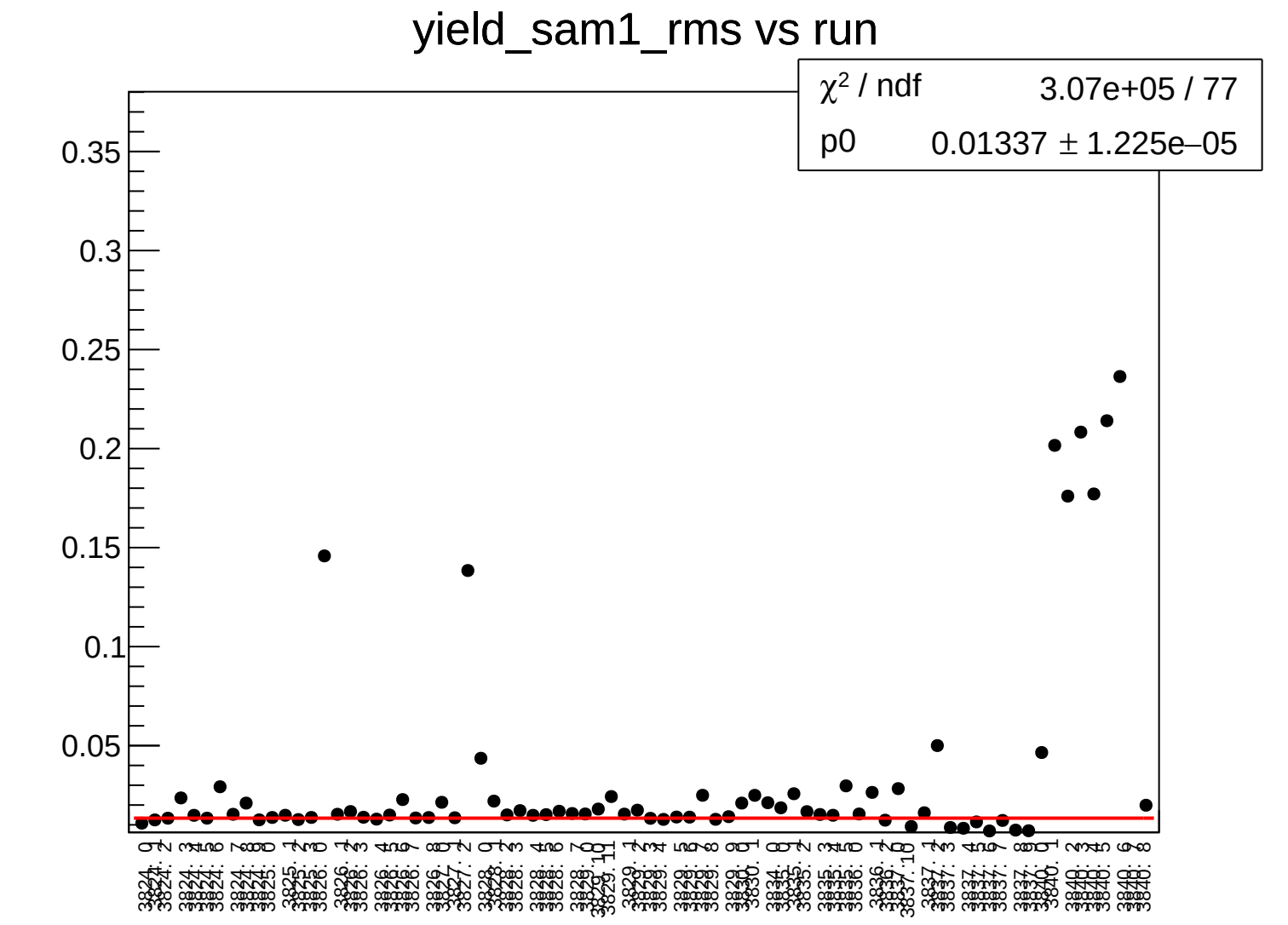

asym_sam8_mean vs run
×10^3
χ^2 / ndf 87.62 / 77
p0 1286 ± 2695
pull
Entries 78
Mean 83.16
Std Dev 50.71

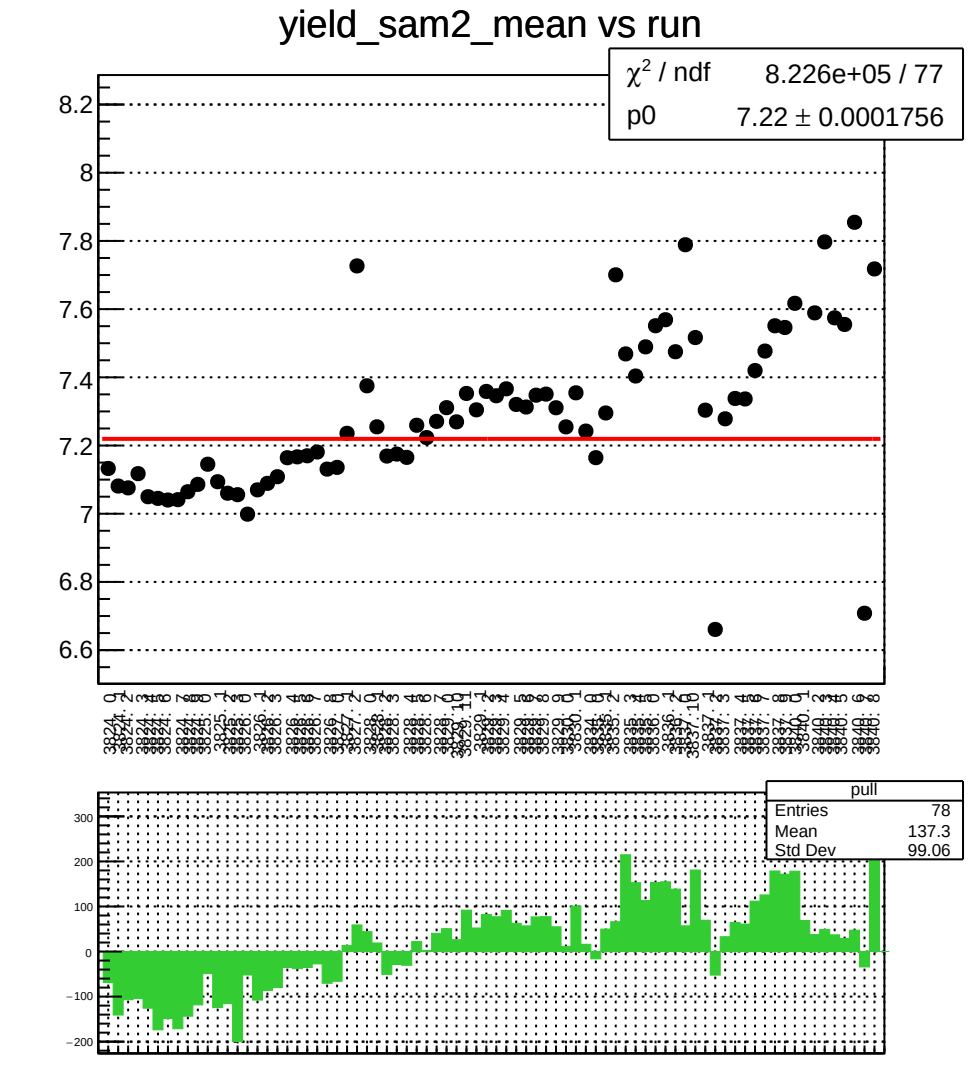

pull1D
Entries 78
Mean 0.01257
Std Dev 1.06

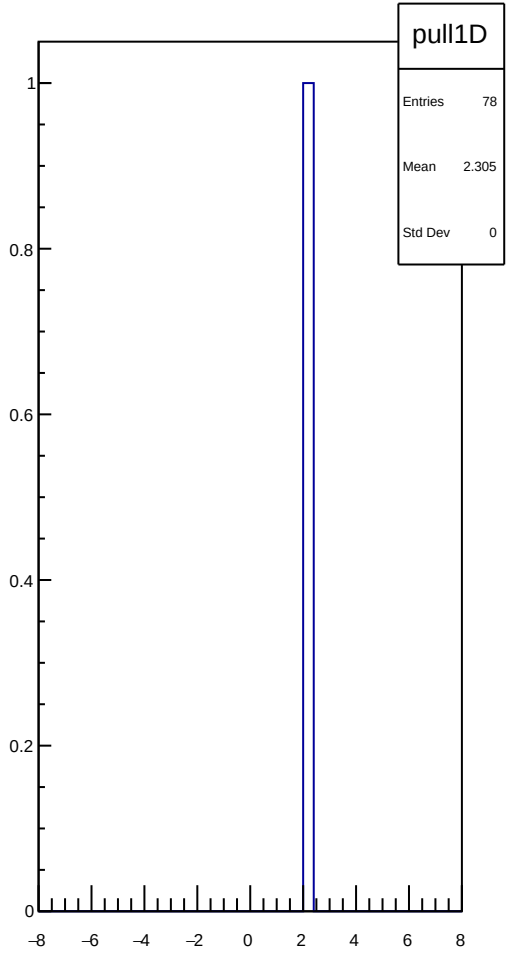

asym_sam8_rms vs run
χ² / ndf 2.172e+04 / 77
p0 2315 ± 1.905
3200
3000
2800
2600
2400
2200
2000
1800

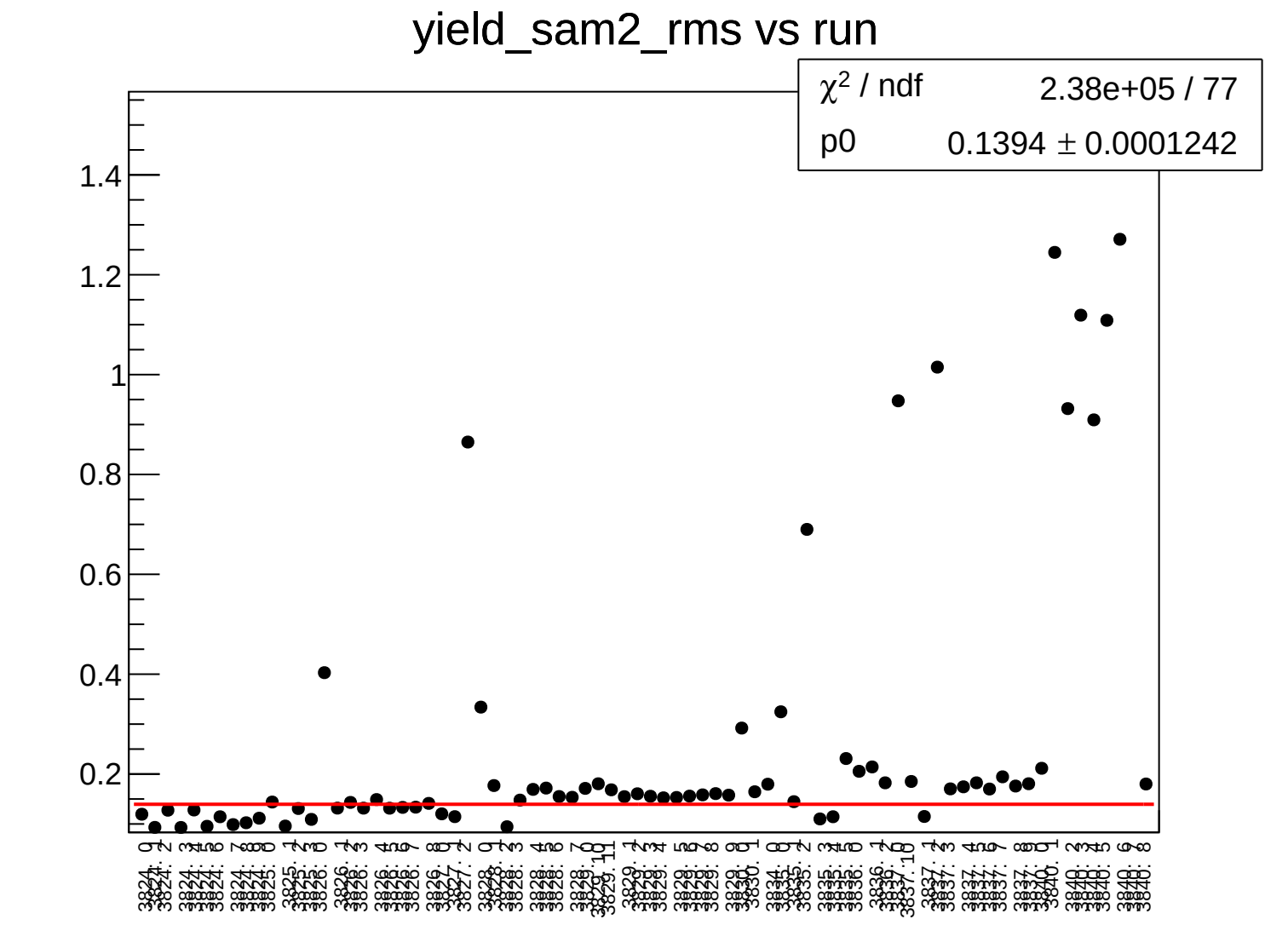

yield_sam1_mean vs run
χ² / ndf 4.275e+07 / 77
p0 4.735 ± 1.733e−05
pull
Entries 78
Mean −117.3
Std Dev 154.5

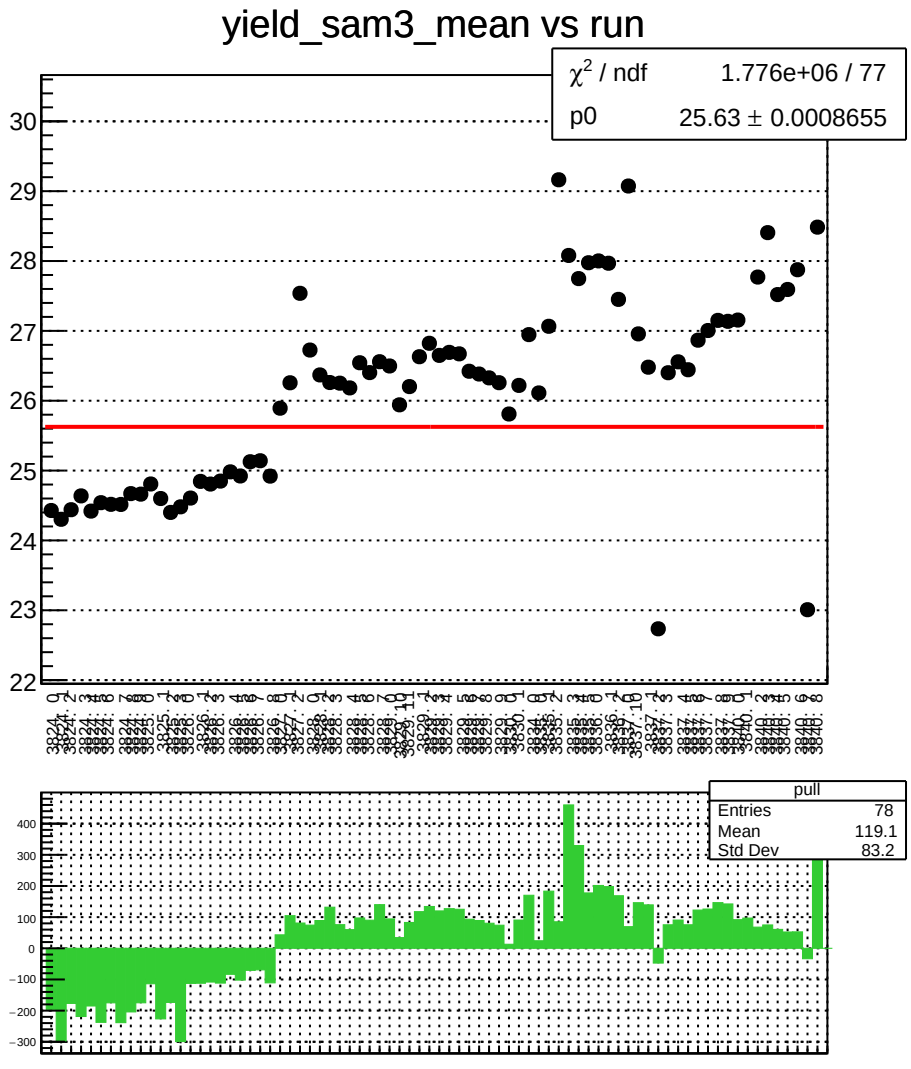

pull1D
Entries 78
Mean 0
Std Dev 0

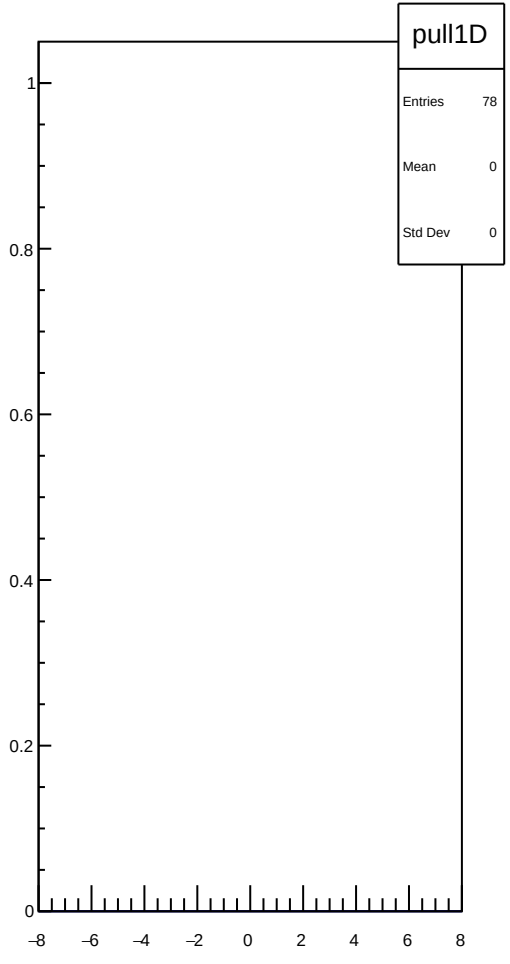

yield_sam1_rms vs run
χ² / ndf 3.07e+05 / 77
p0 0.01337 ± 1.225e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

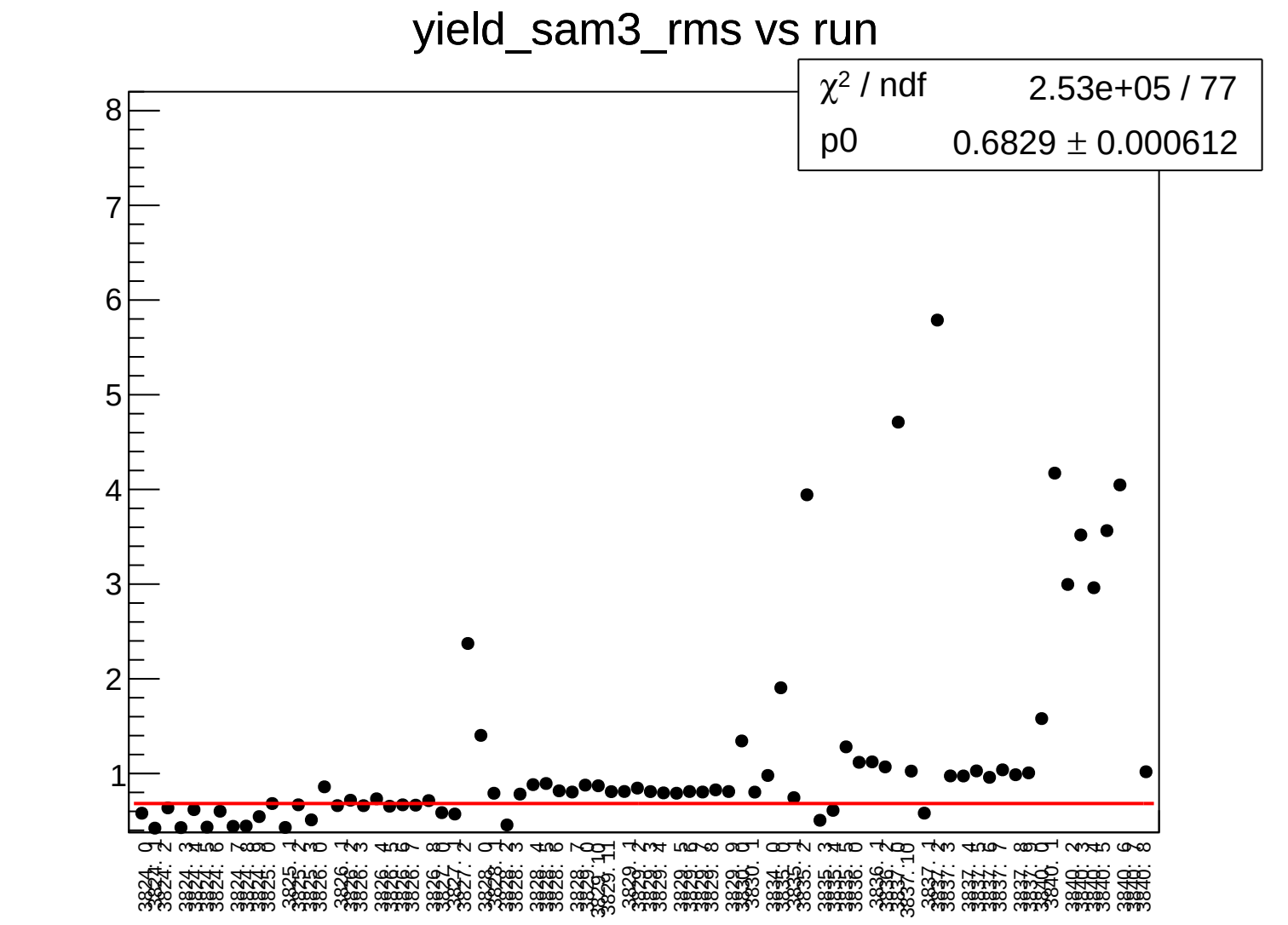

yield_sam2_mean vs run
χ² / ndf 8.226e+05 / 77
p0 7.22 ± 0.0001756
pull
Entries 78
Mean 137.3
Std Dev 99.06

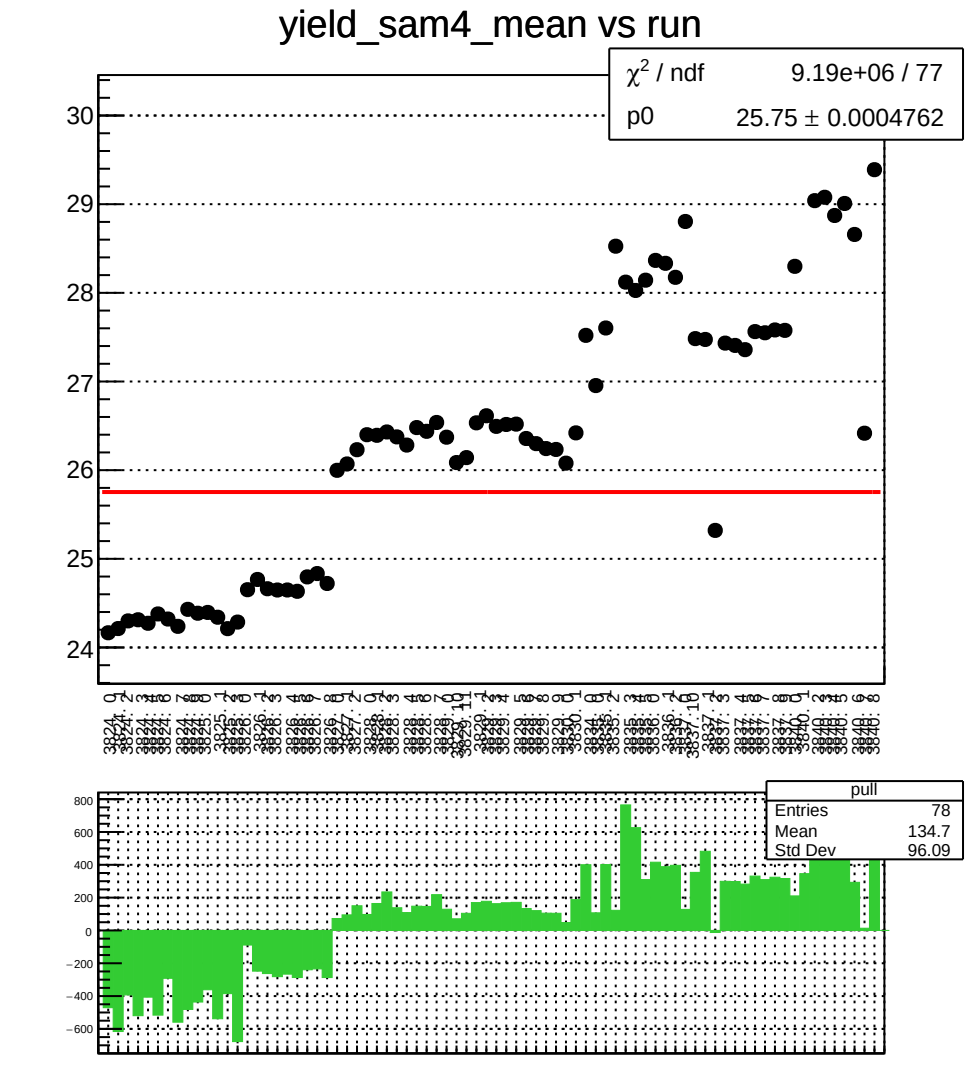

pull1D
Entries 78
Mean 2.305
Std Dev 0

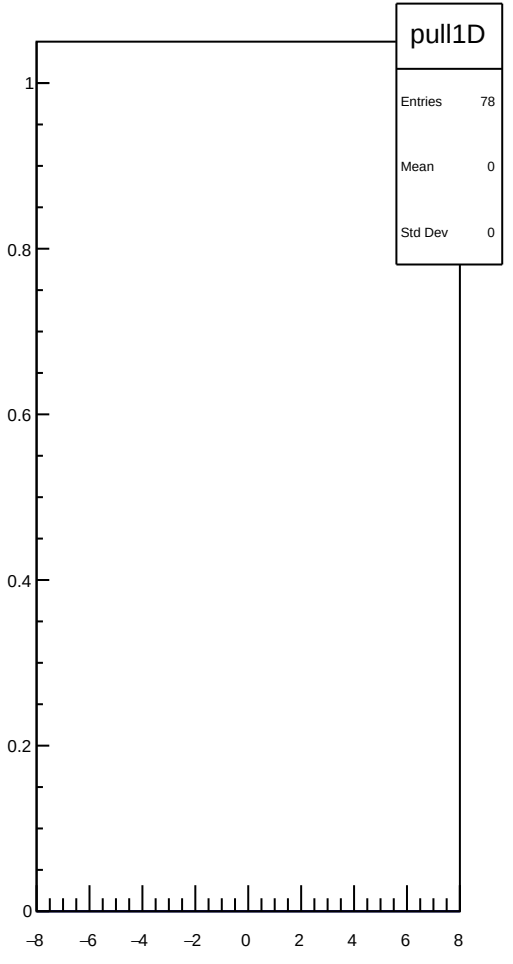

yield_sam2_rms vs run
χ² / ndf 2.38e+05 / 77
p0 0.1394 ± 0.0001242
1.4
1.2
1
0.8
0.6
0.4
0.2

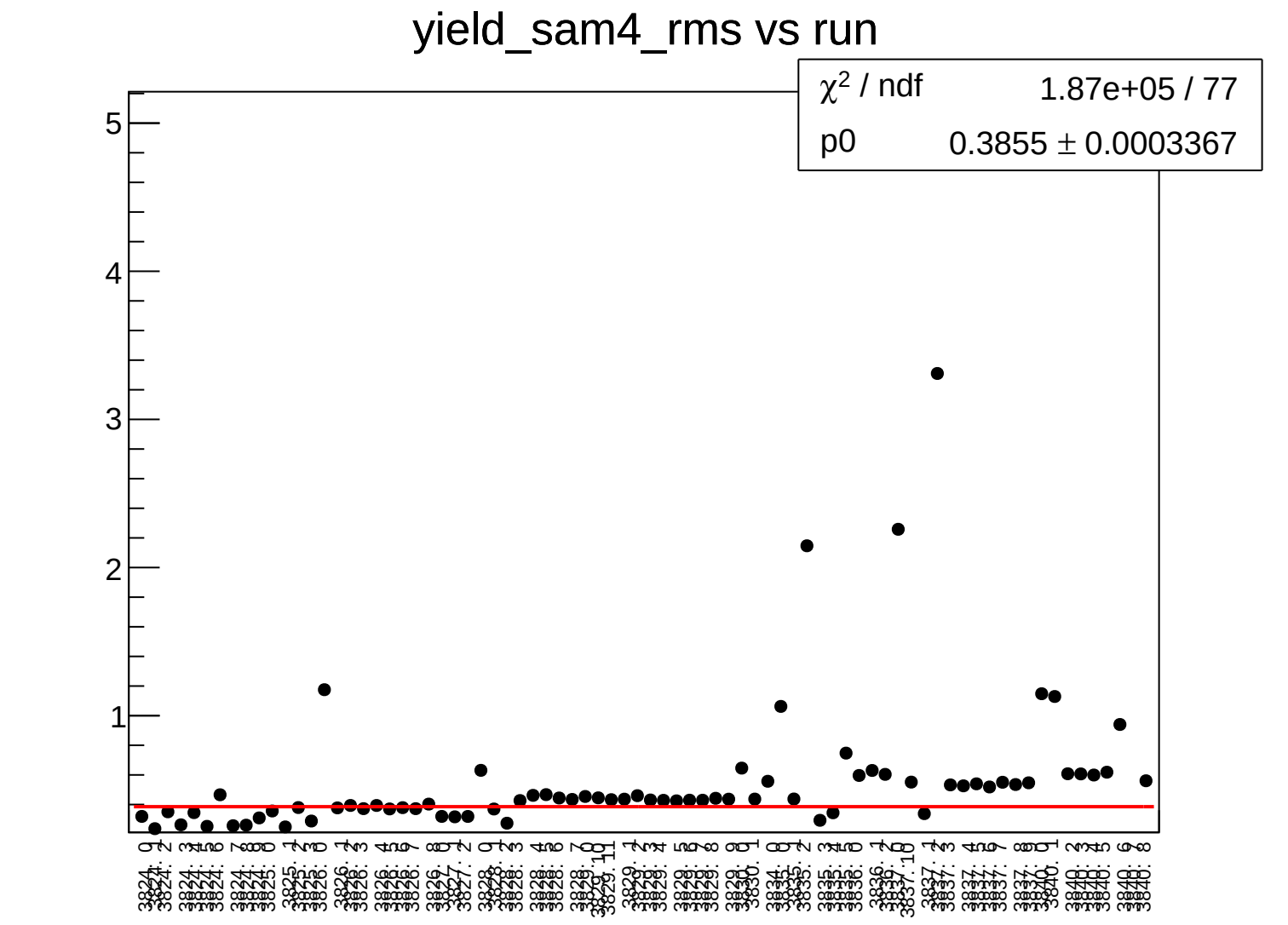

yield_sam3_mean vs run
χ² / ndf 1.776e+06 / 77
p0 25.63 ± 0.0008655
pull
Entries 78
Mean 119.1
Std Dev 83.2

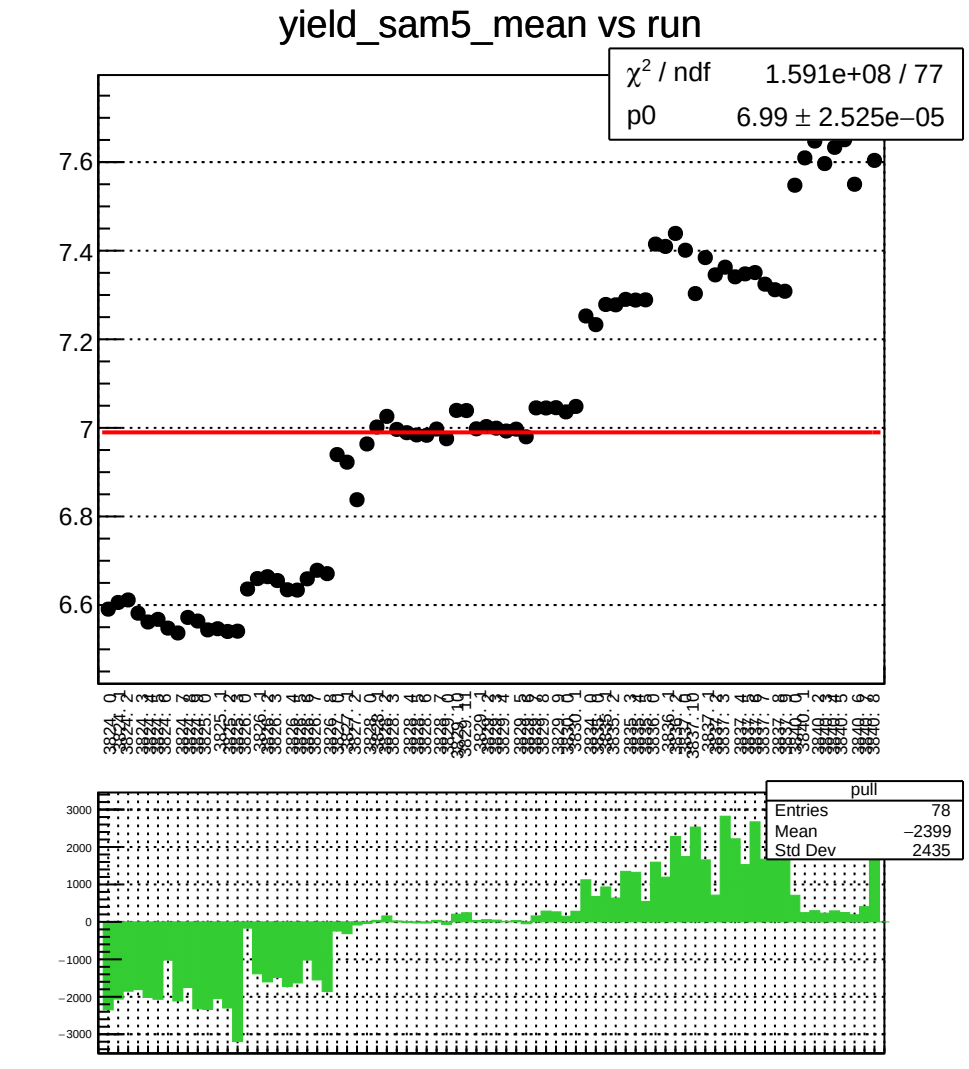

pull1D
Entries 78
Mean 0
Std Dev 0

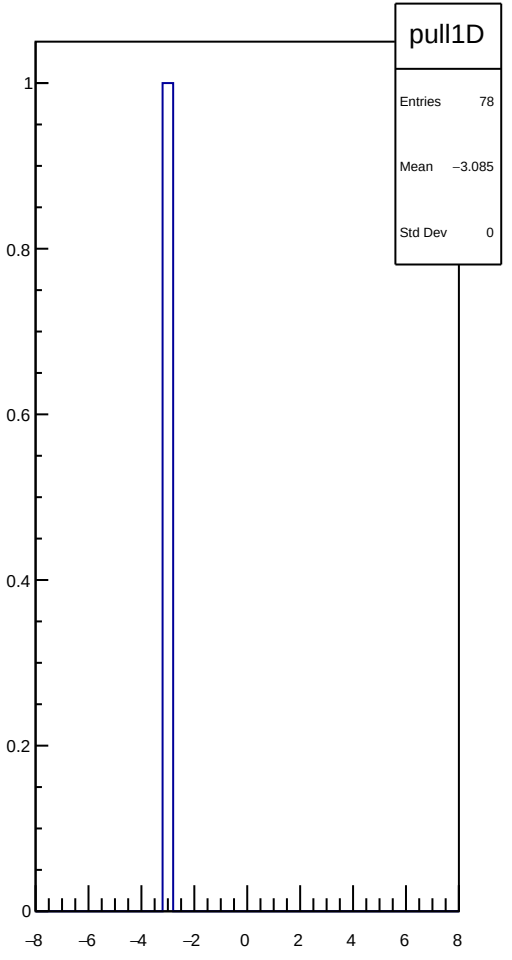

yield_sam3_rms vs run
χ² / ndf 2.53e+05 / 77
p0 0.6829 ± 0.000612
8
7
6
5
4
3
2
1

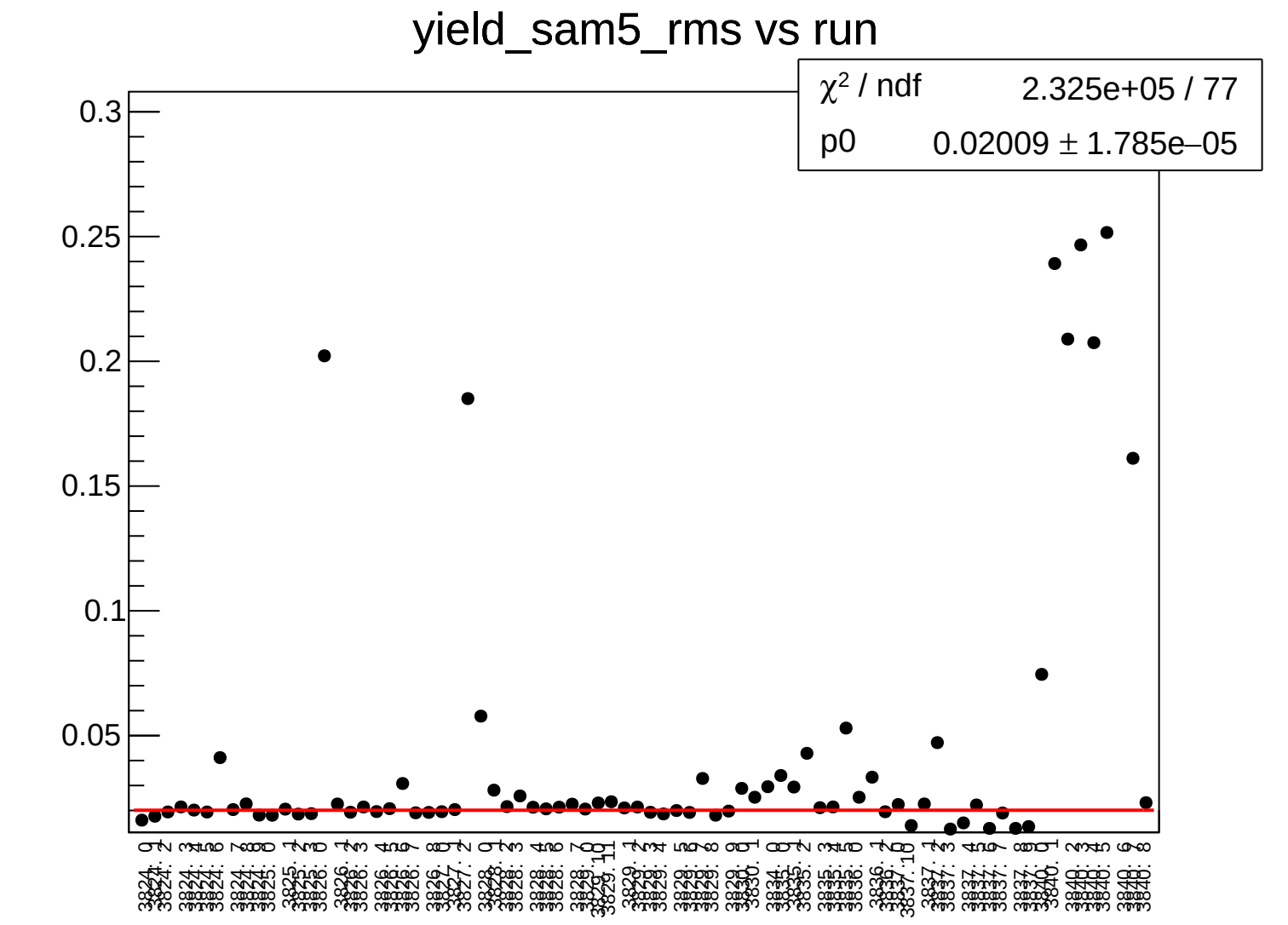

yield_sam4_mean vs run
χ² / ndf 9.19e+06 / 77
p0 25.75 ± 0.0004762
pull
Entries 78
Mean 134.7
Std Dev 96.09

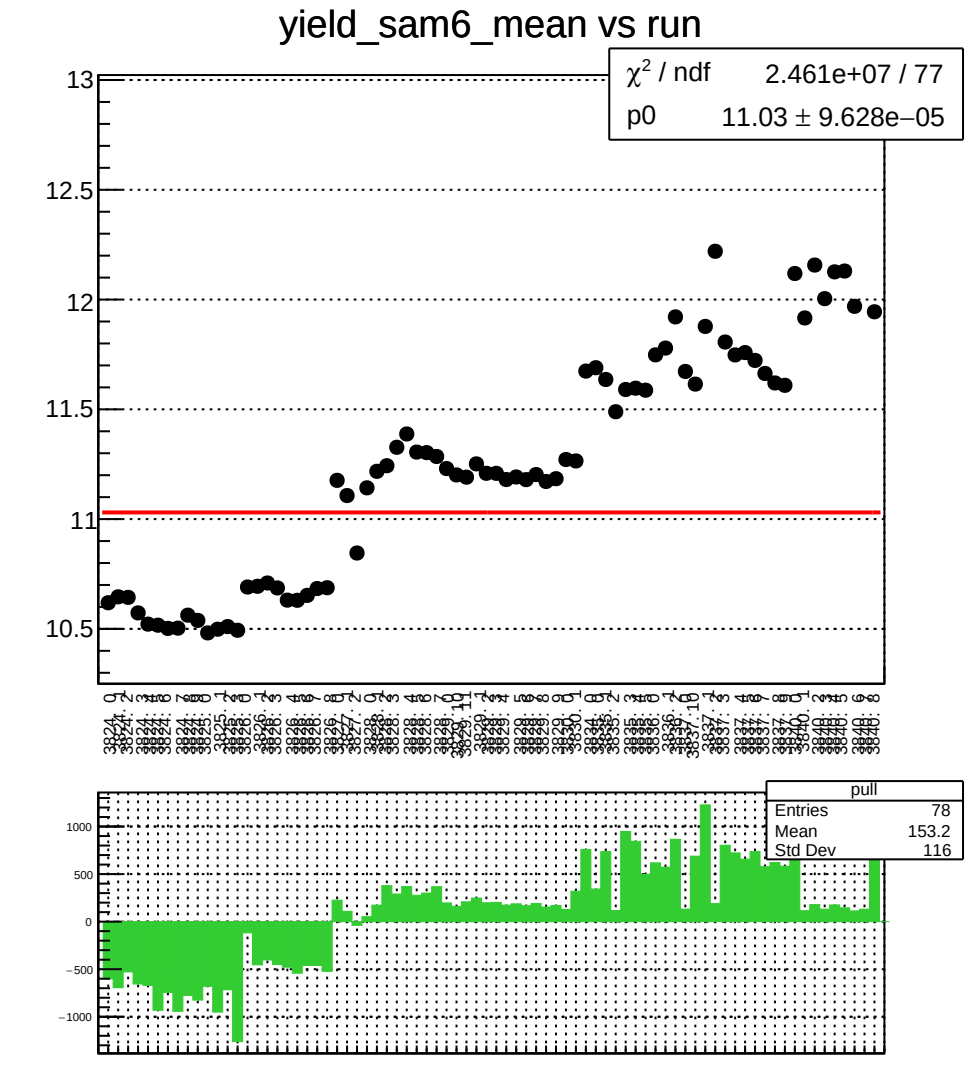

pull1D
Entries 78
Mean 0
Std Dev 0

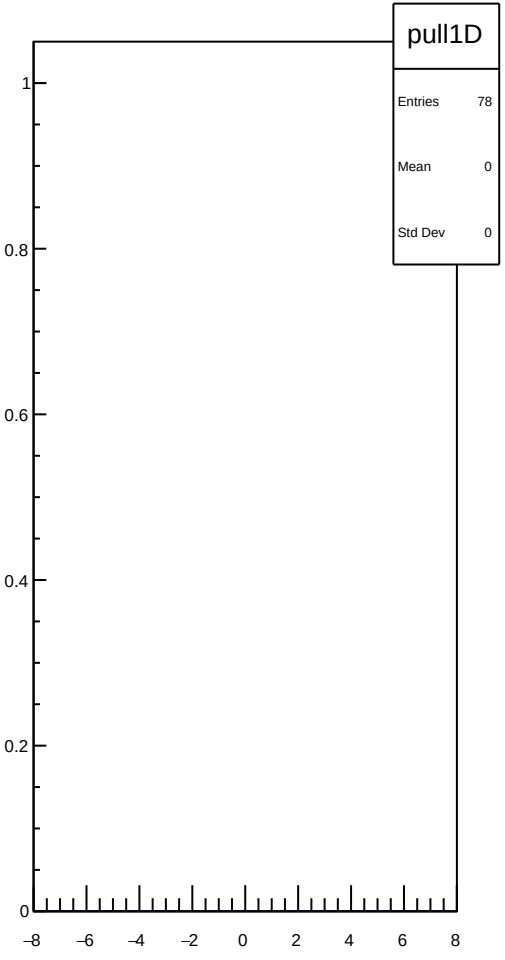

yield_sam4_rms vs run
χ² / ndf 1.87e+05 / 77
p0 0.3855 ± 0.0003367
5
4
3
2
1

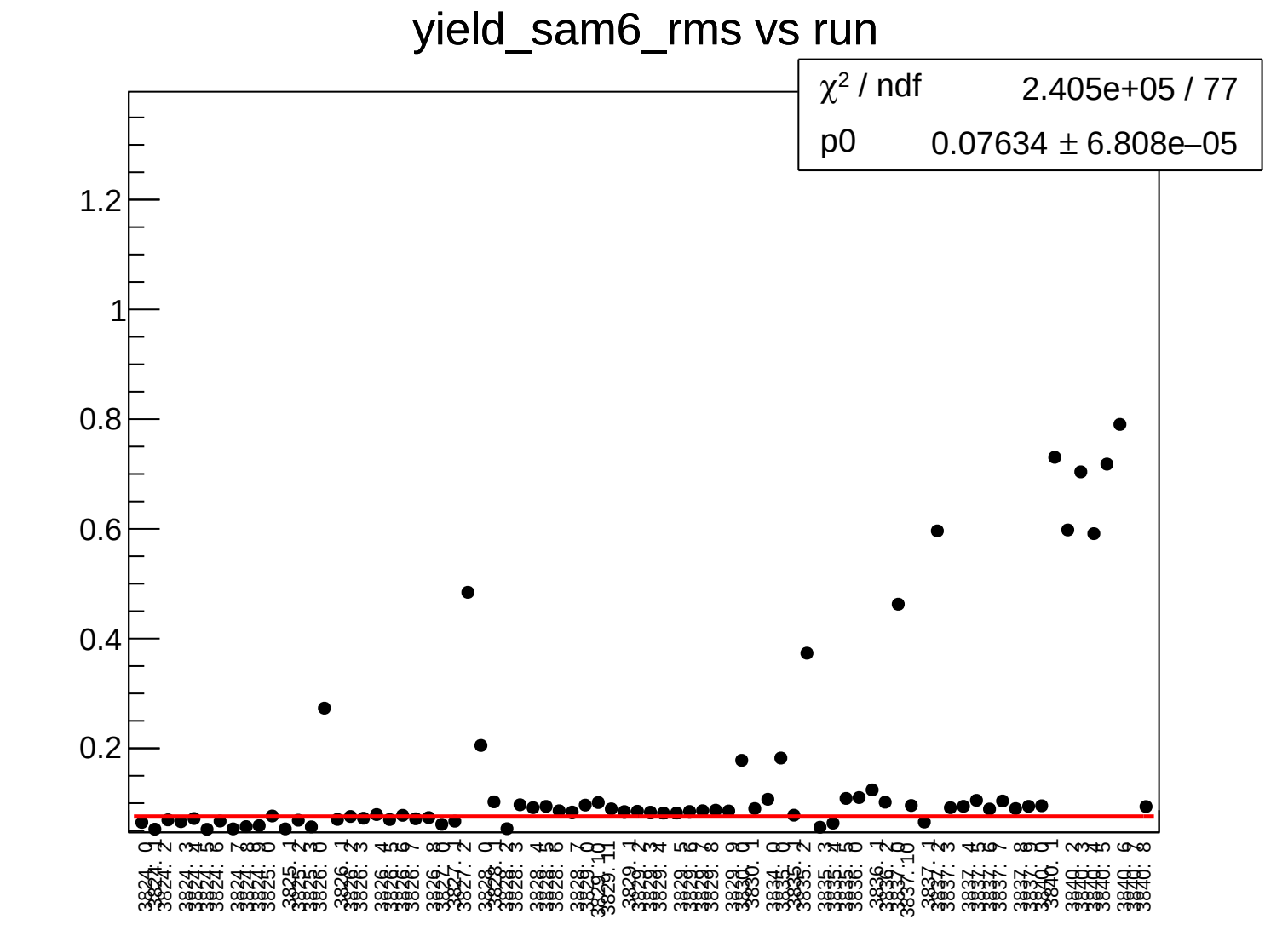

yield_sam5_mean vs run
χ² / ndf 1.591e+08 / 77
p0 6.99 ± 2.525e−05
7.6
7.4
7.2
7
6.8
6.6
pull
Entries 78
Mean −2399
Std Dev 2435
3000
2000
1000
0
−1000
−2000
−3000

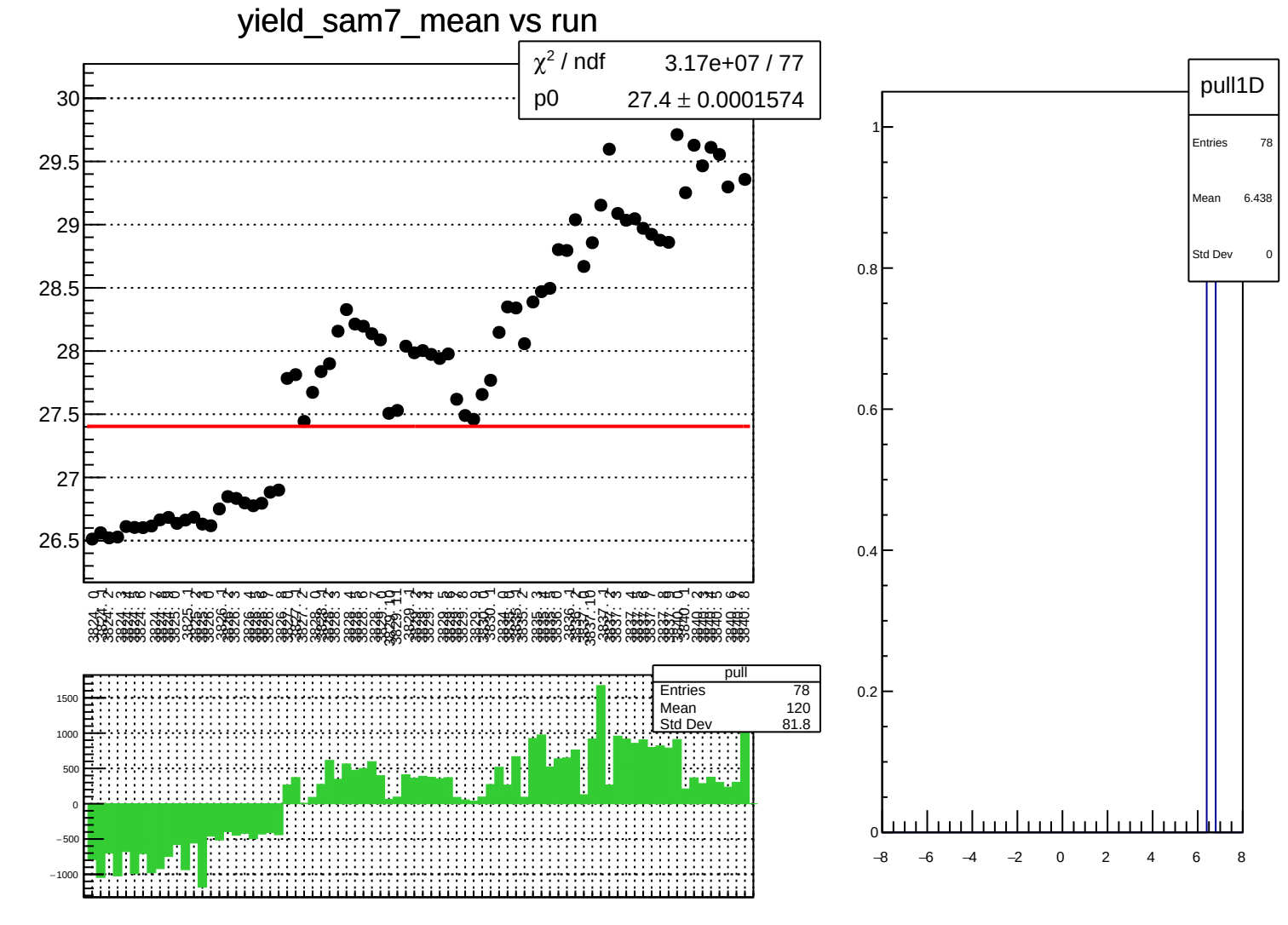

pull1D
Entries 78
Mean −3.085
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

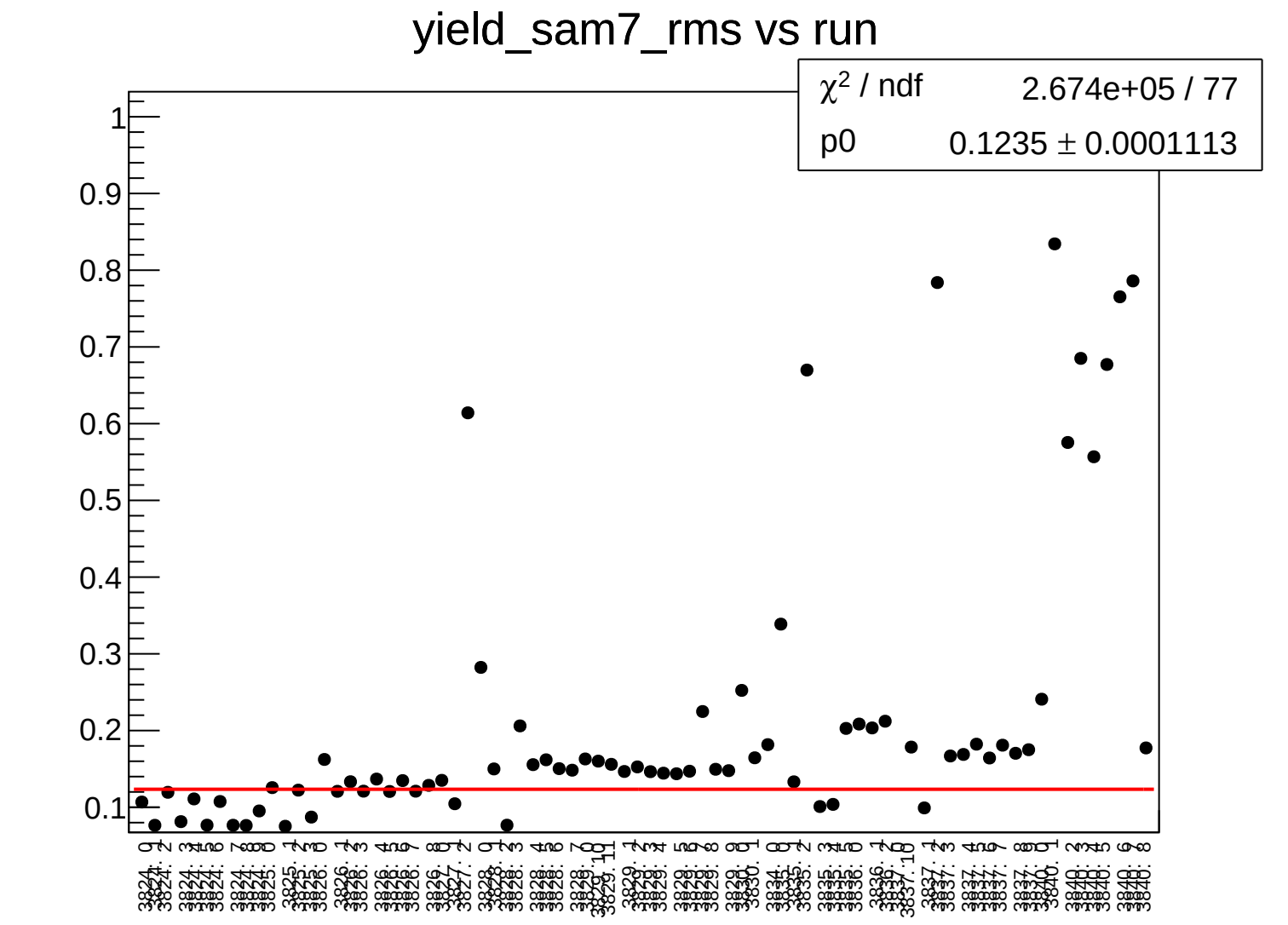

yield_sam5_rms vs run
χ² / ndf 2.325e+05 / 77
p0 0.02009 ± 1.785e−05
0.3
0.25
0.2
0.15
0.1
0.05

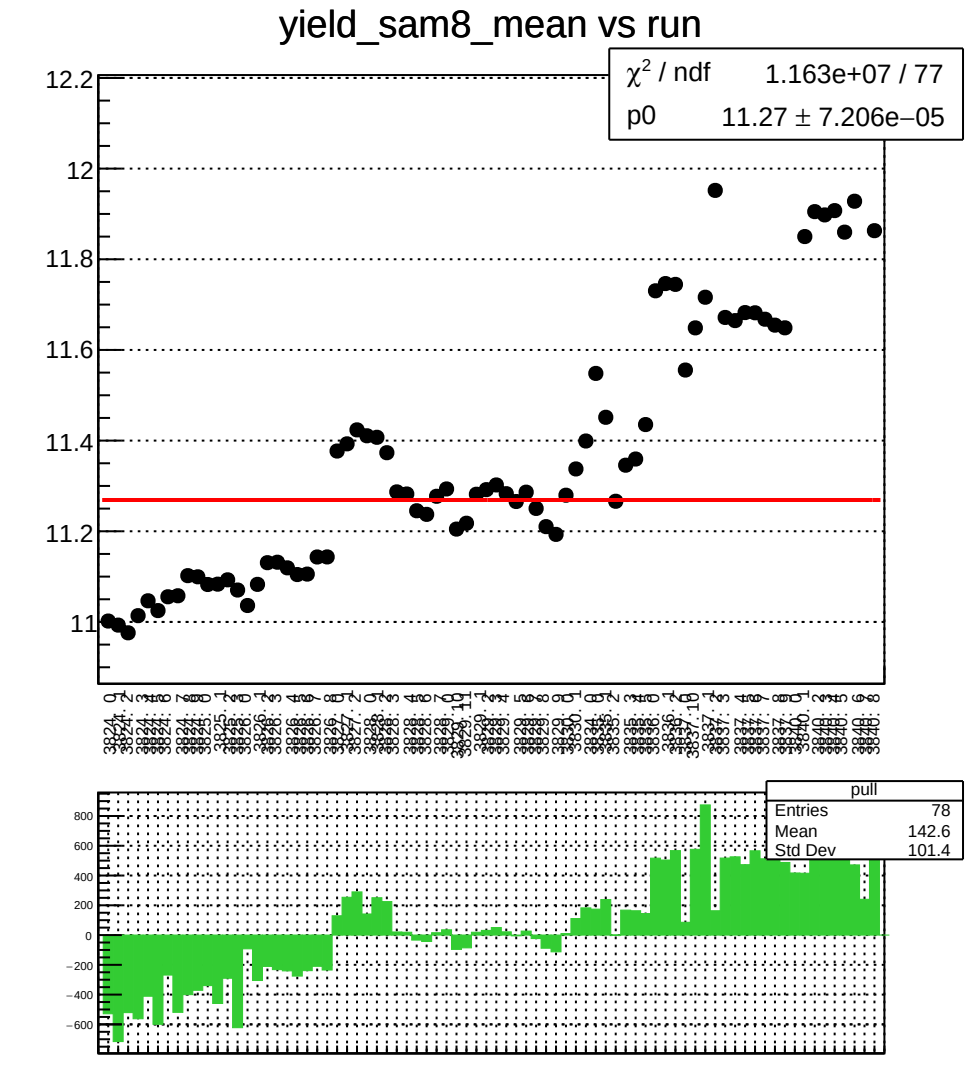

yield_sam6_mean vs run
χ² / ndf 2.461e+07 / 77
p0 11.03 ± 9.628e−05
pull
Entries 78
Mean 153.2
Std Dev 116

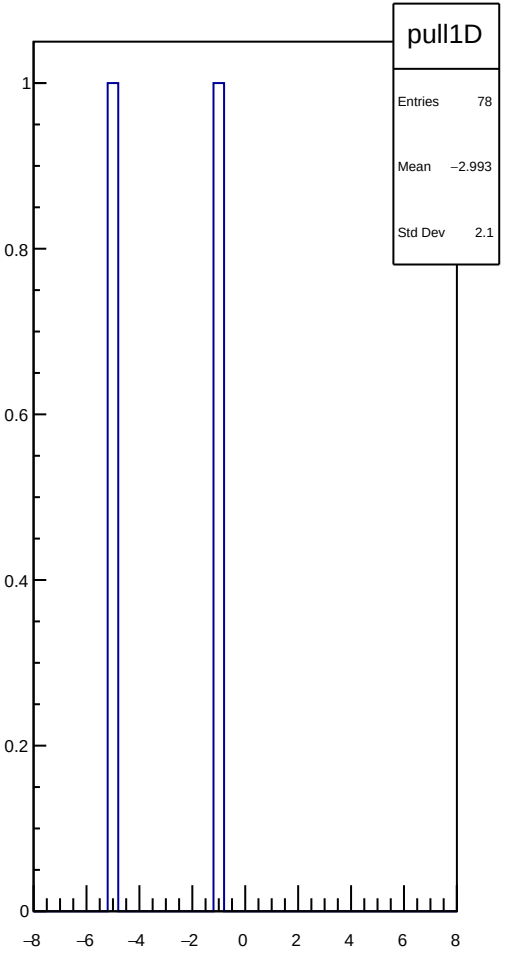

pull1D
Entries 78
Mean 0
Std Dev 0

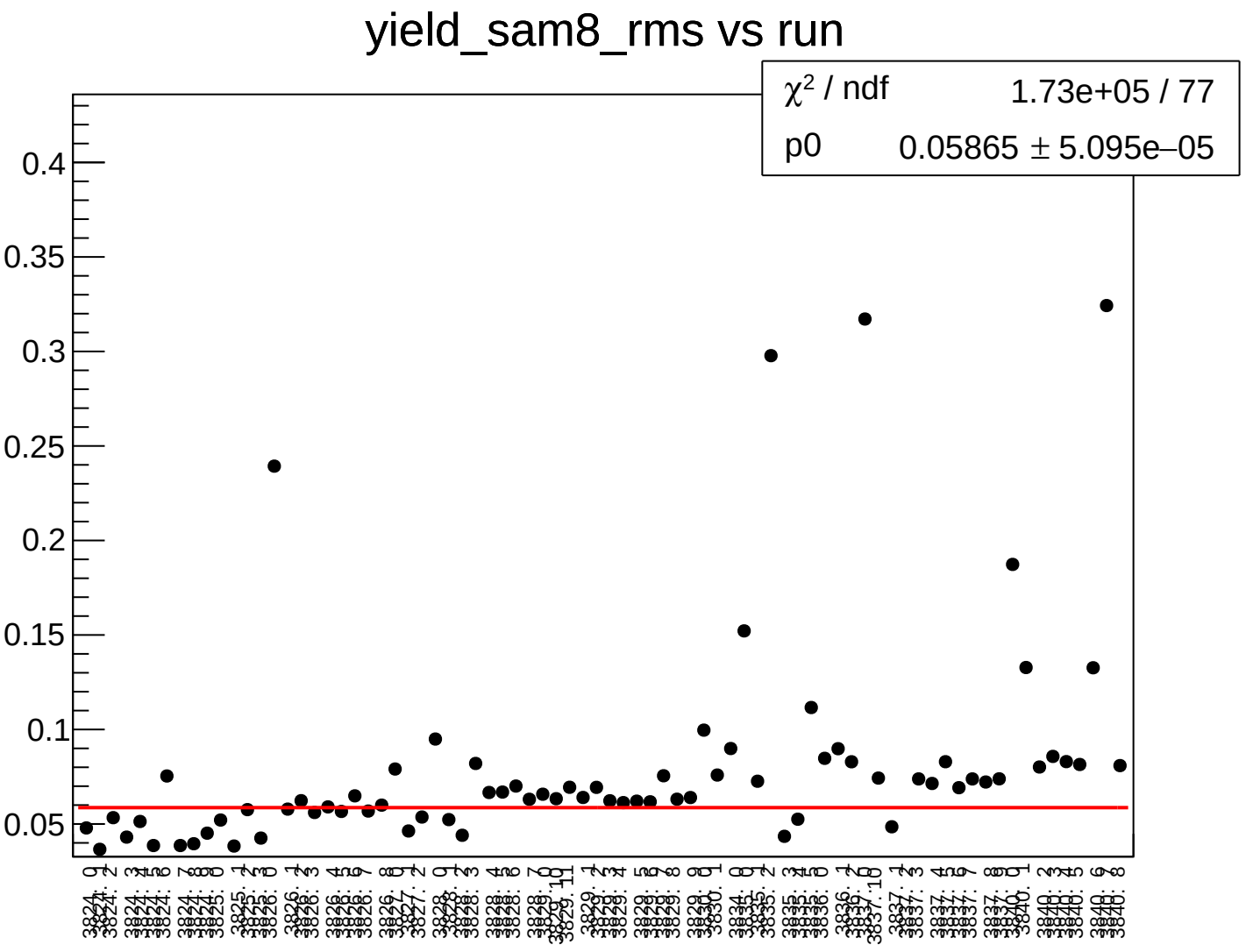

yield_sam6_rms vs run
χ² / ndf 2.405e+05 / 77
p0 0.07634 ± 6.808e−05
1.2
1
0.8
0.6
0.4
0.2

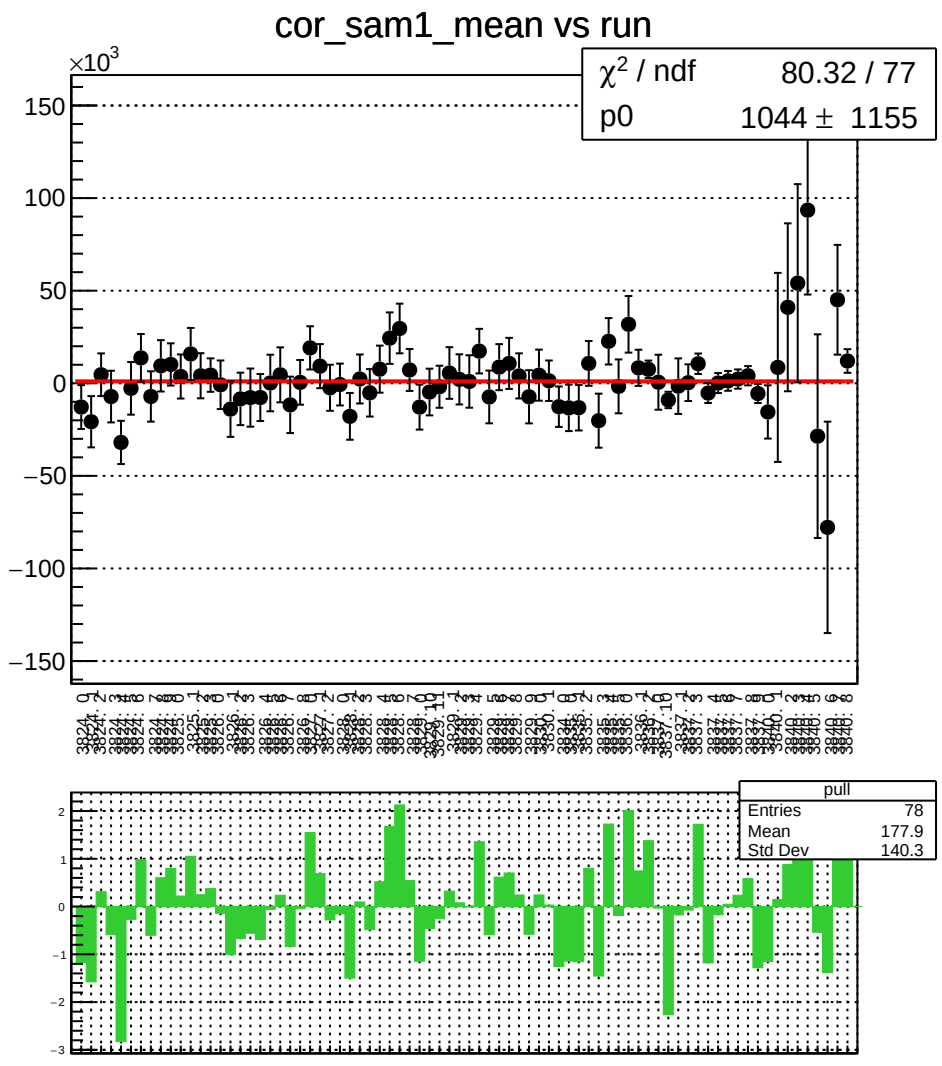

yield_sam7_mean vs run
χ² / ndf 3.17e+07 / 77
p0 27.4 ± 0.0001574
pull
Entries 78
Mean 120
Std Dev 81.8
pull1D
Entries 78
Mean 6.438
Std Dev 0

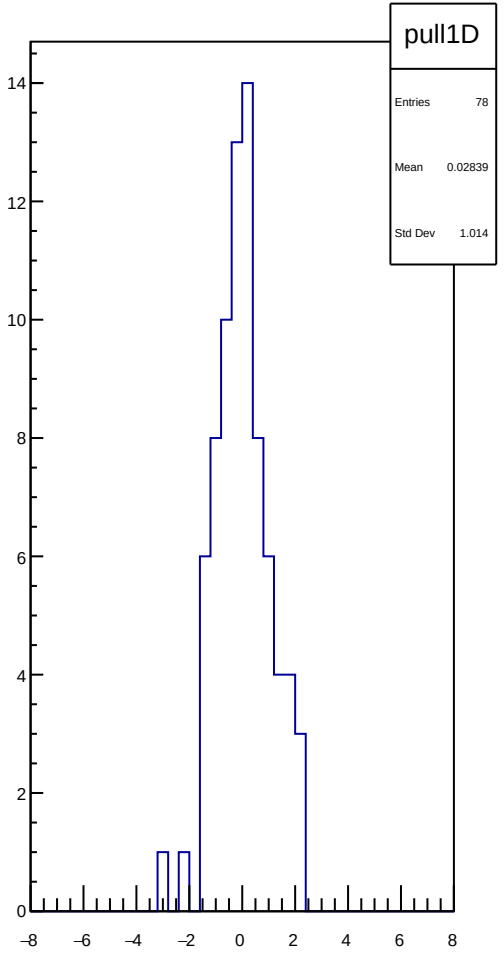

yield_sam7_rms vs run
χ² / ndf 2.674e+05 / 77
p0 0.1235 ± 0.0001113
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

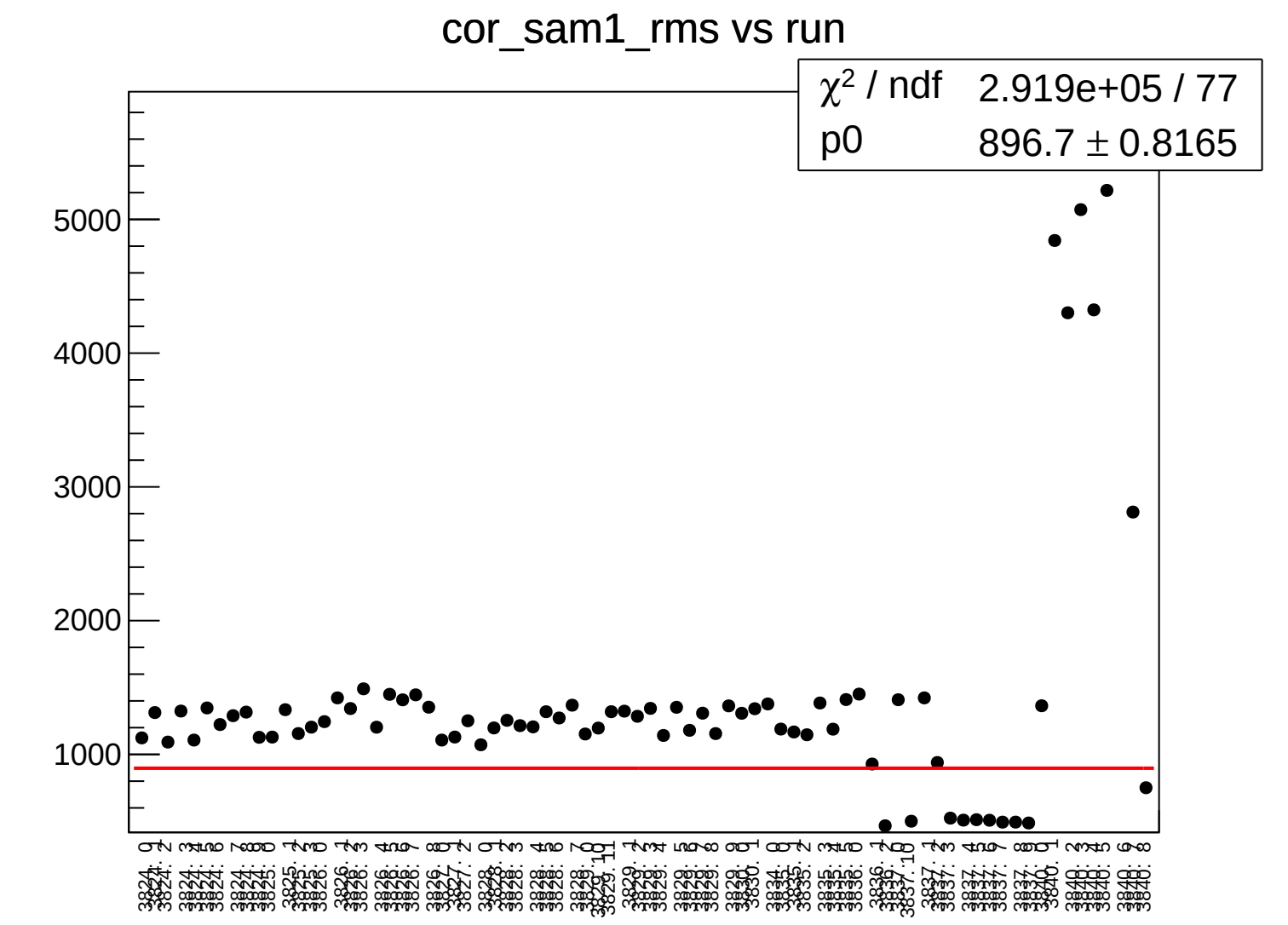

yield_sam8_mean vs run
χ² / ndf 1.163e+07 / 77
p0 11.27 ± 7.206e−05
pull
Entries 78
Mean 142.6
Std Dev 101.4

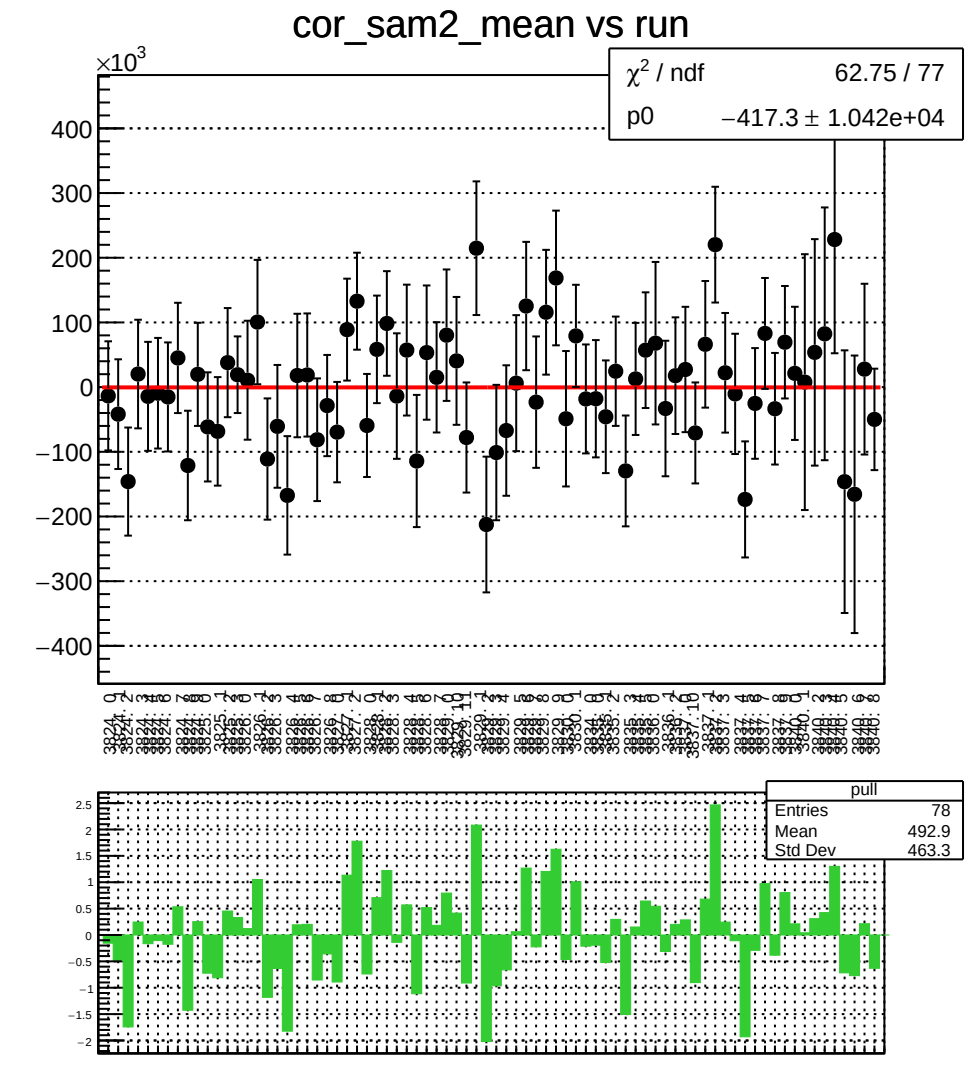

pull1D
Entries 78
Mean −2.993
Std Dev 2.1

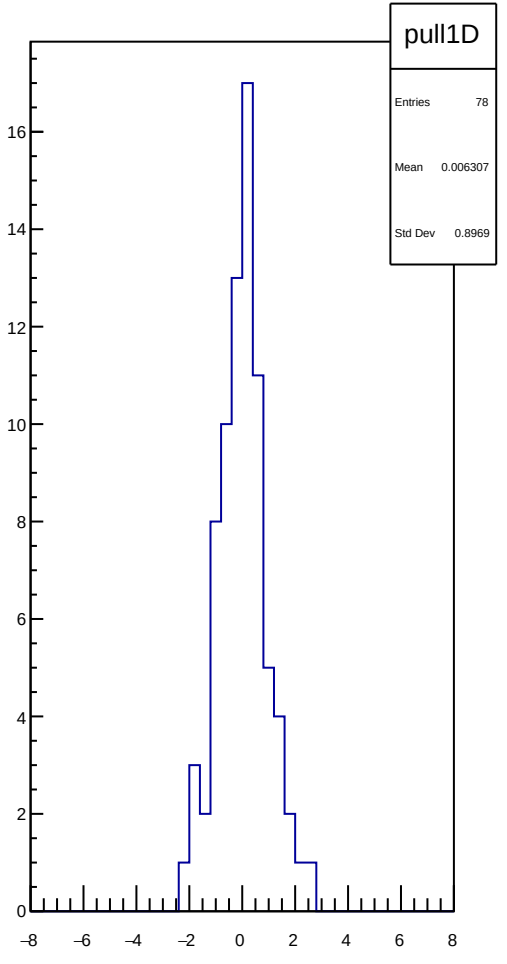

yield_sam8_rms vs run
χ² / ndf 1.73e+05 / 77
p0 0.05865 ± 5.095e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

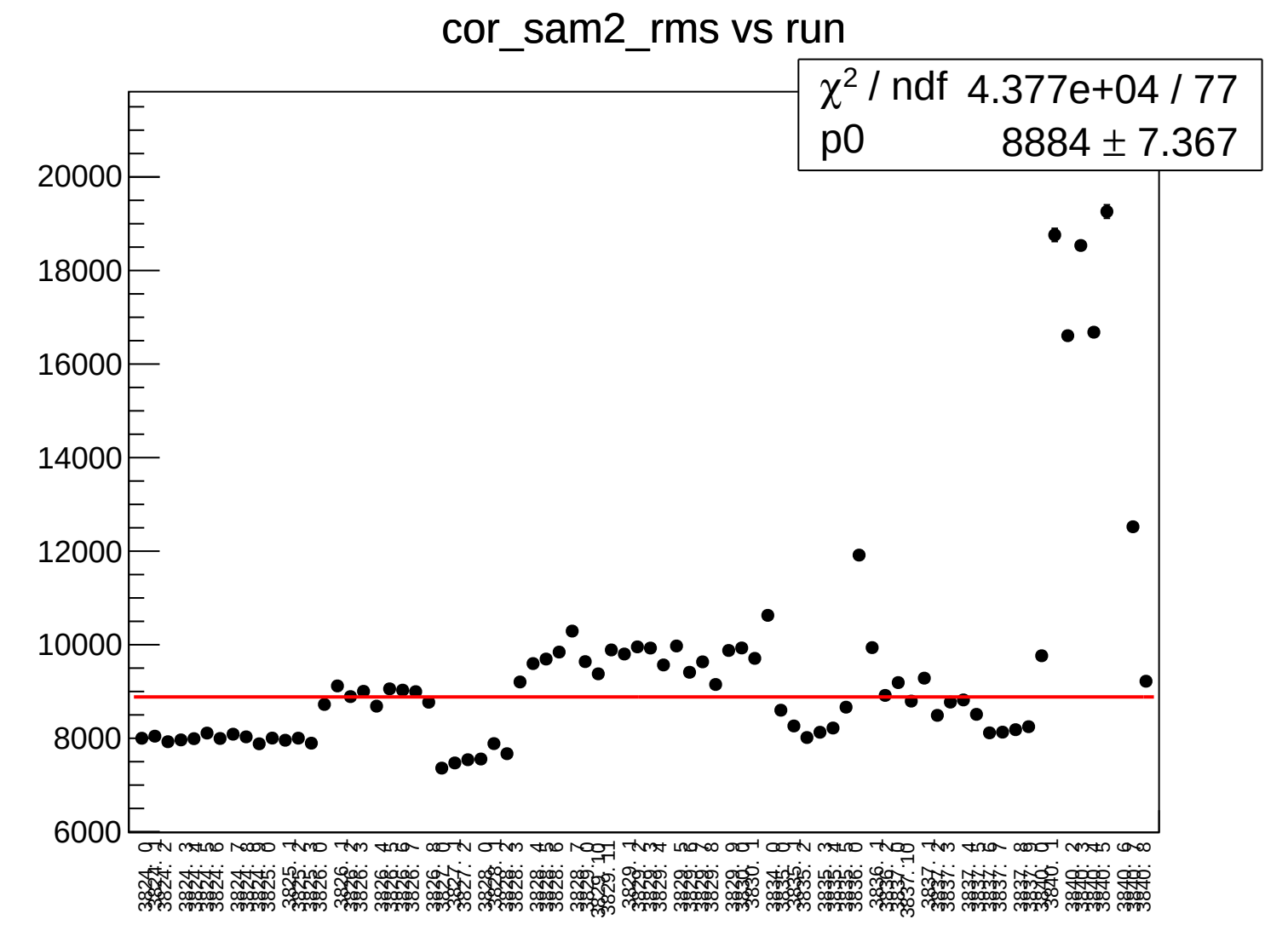

cor_sam1_mean vs run
×10^3
χ² / ndf 80.32 / 77
p0 1044 ± 1155
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 177.9
Std Dev 140.3
2
1
0
−1
−2
−3

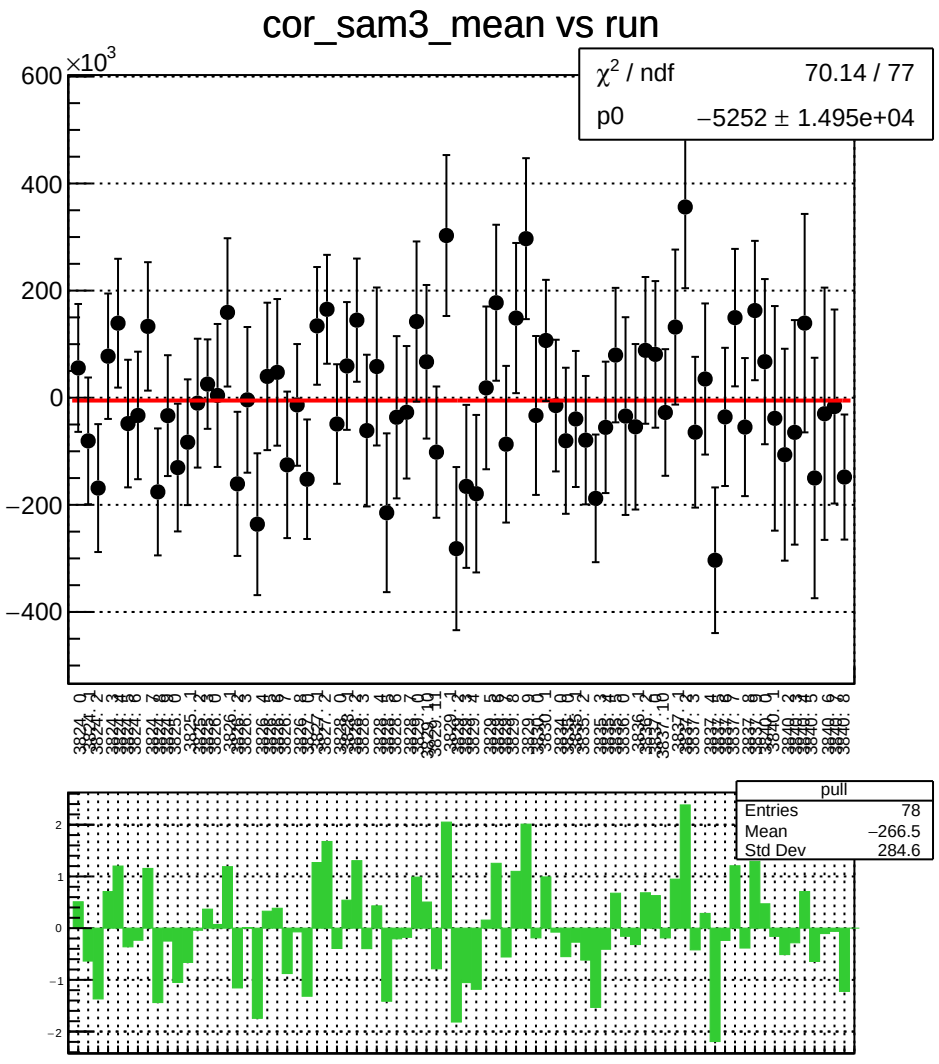

pull1D
Entries 78
Mean 0.02839
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

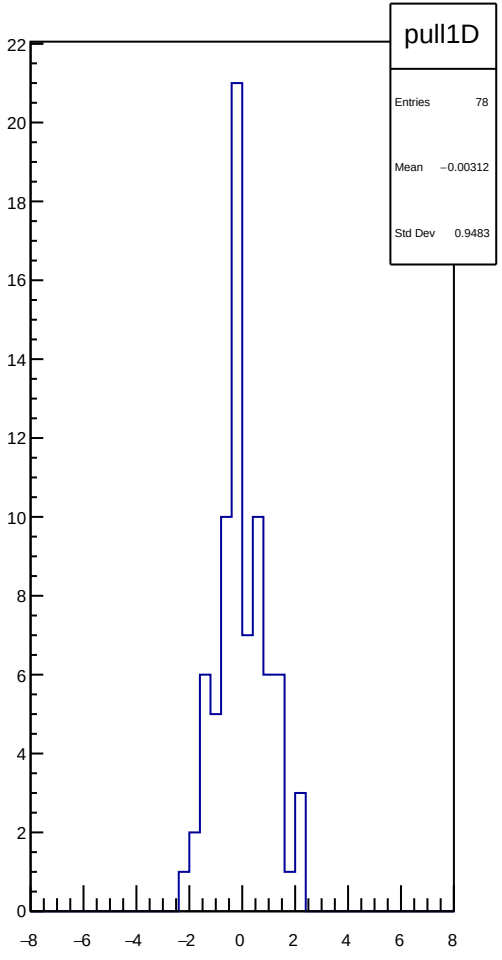

cor_sam1_rms vs run
χ² / ndf 2.919e+05 / 77
p0 896.7 ± 0.8165
5000
4000
3000
2000
1000

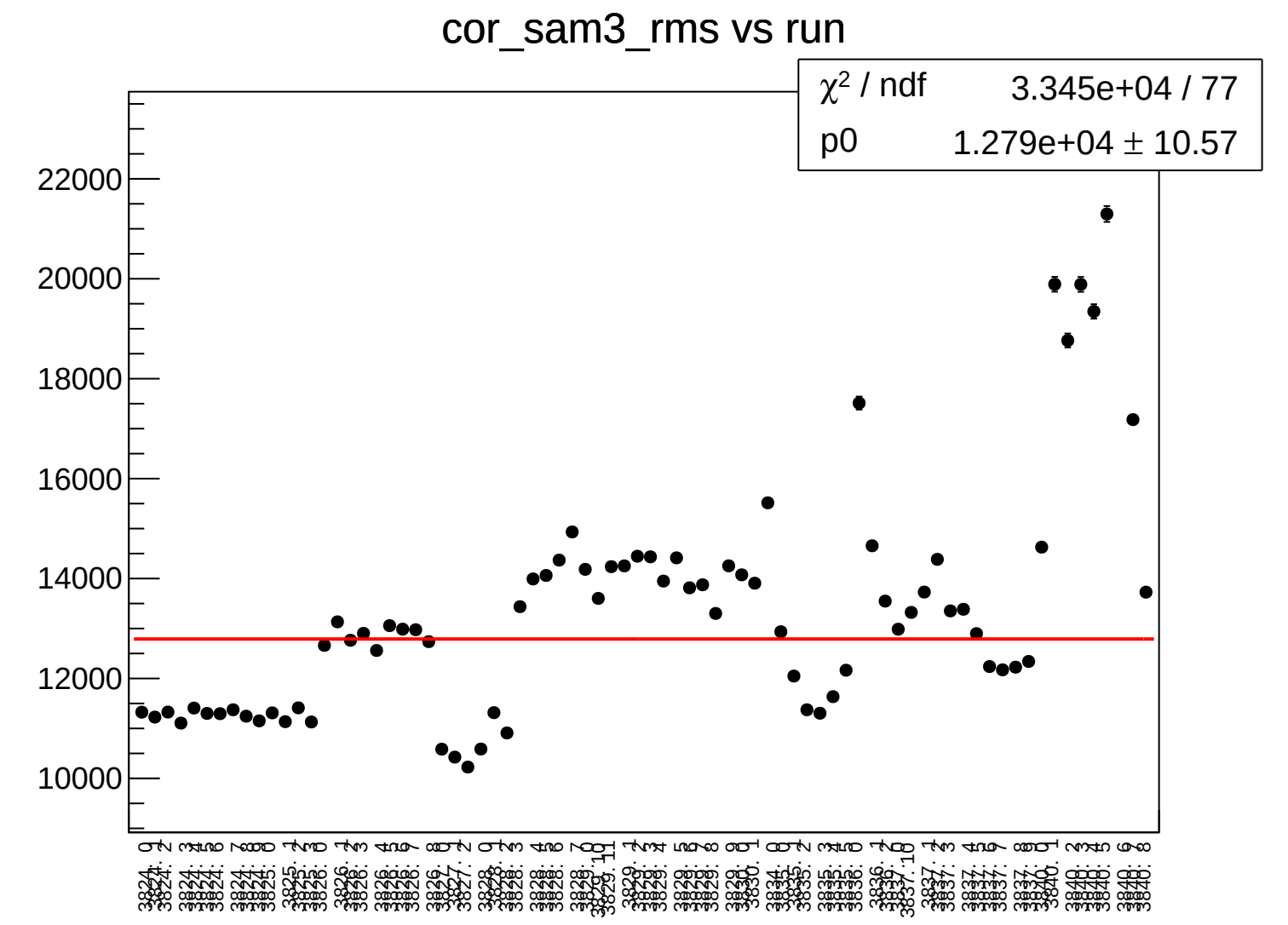

cor_sam2_mean vs run
×10^3
χ² / ndf 62.75 / 77
p0 −417.3 ± 1.042e+04
pull
Entries 78
Mean 492.9
Std Dev 463.3

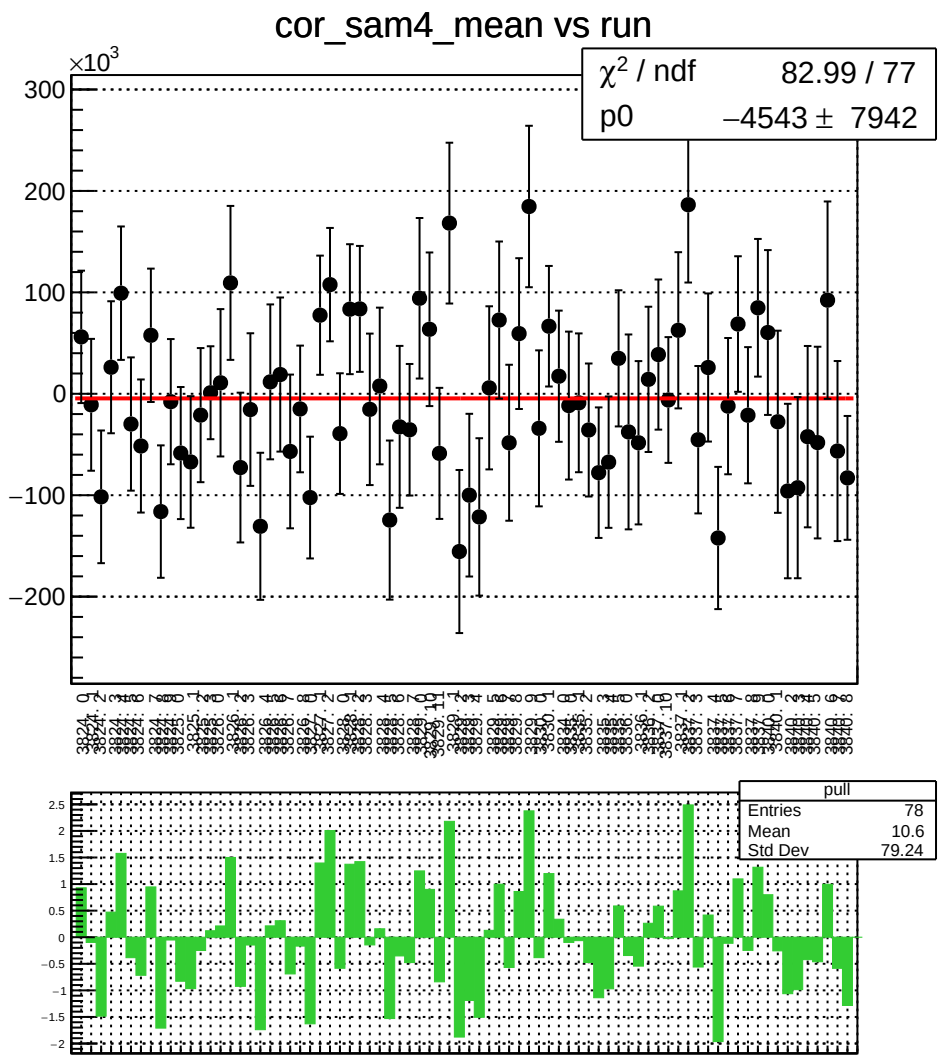

pull1D
Entries 78
Mean 0.006307
Std Dev 0.8969

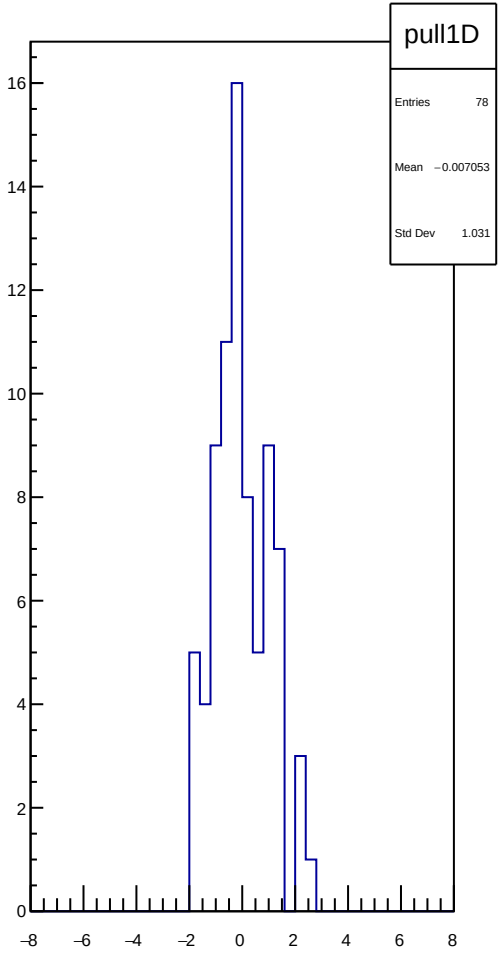

cor_sam2_rms vs run
χ² / ndf 4.377e+04 / 77
p0 8884 ± 7.367
20000
18000
16000
14000
12000
10000
8000
6000

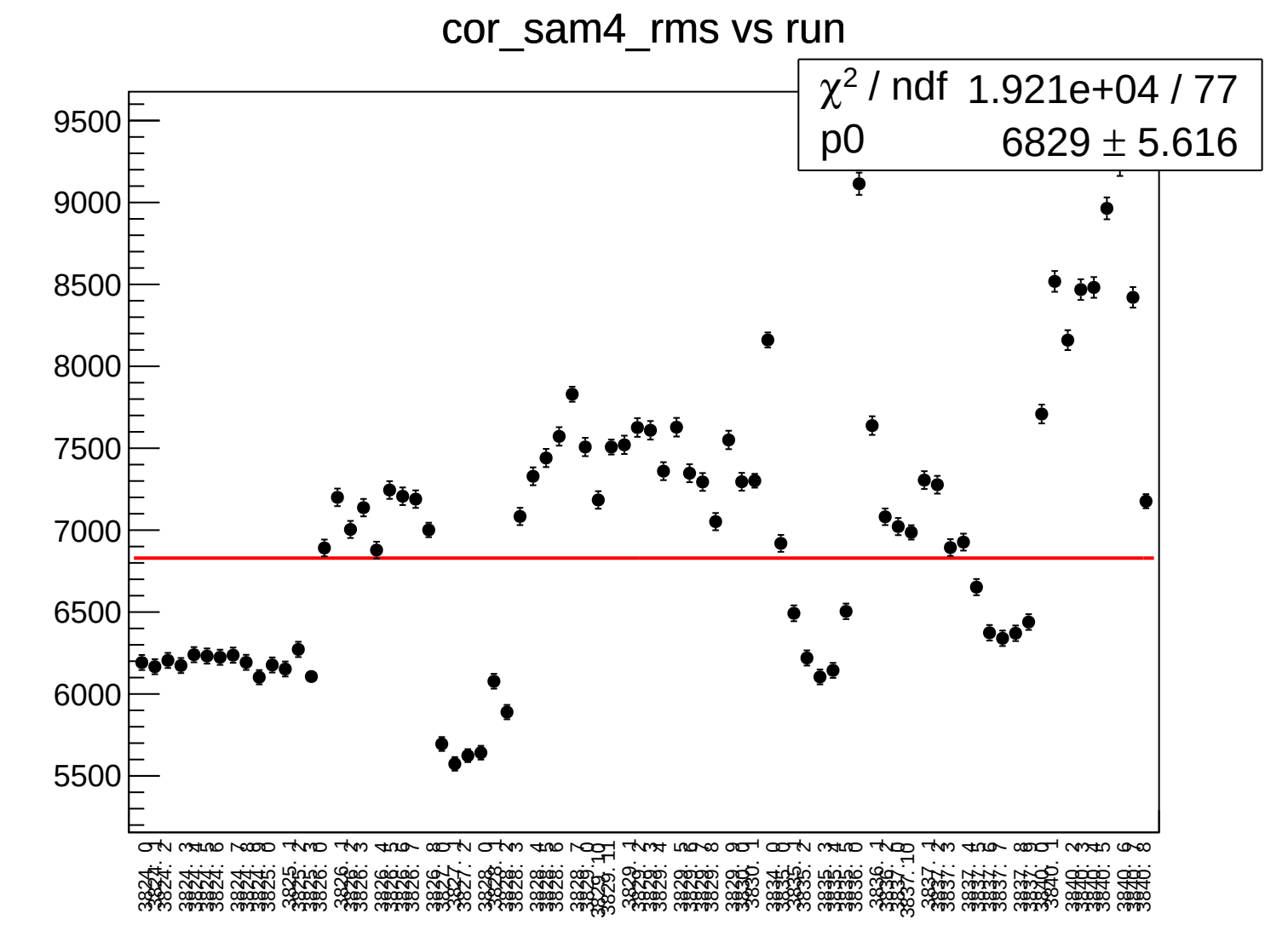

cor_sam3_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 70.14 / 77
p0 −5252 ± 1.495e+04
pull
Entries 78
Mean −266.5
Std Dev 284.6
2
1
0
−1
−2

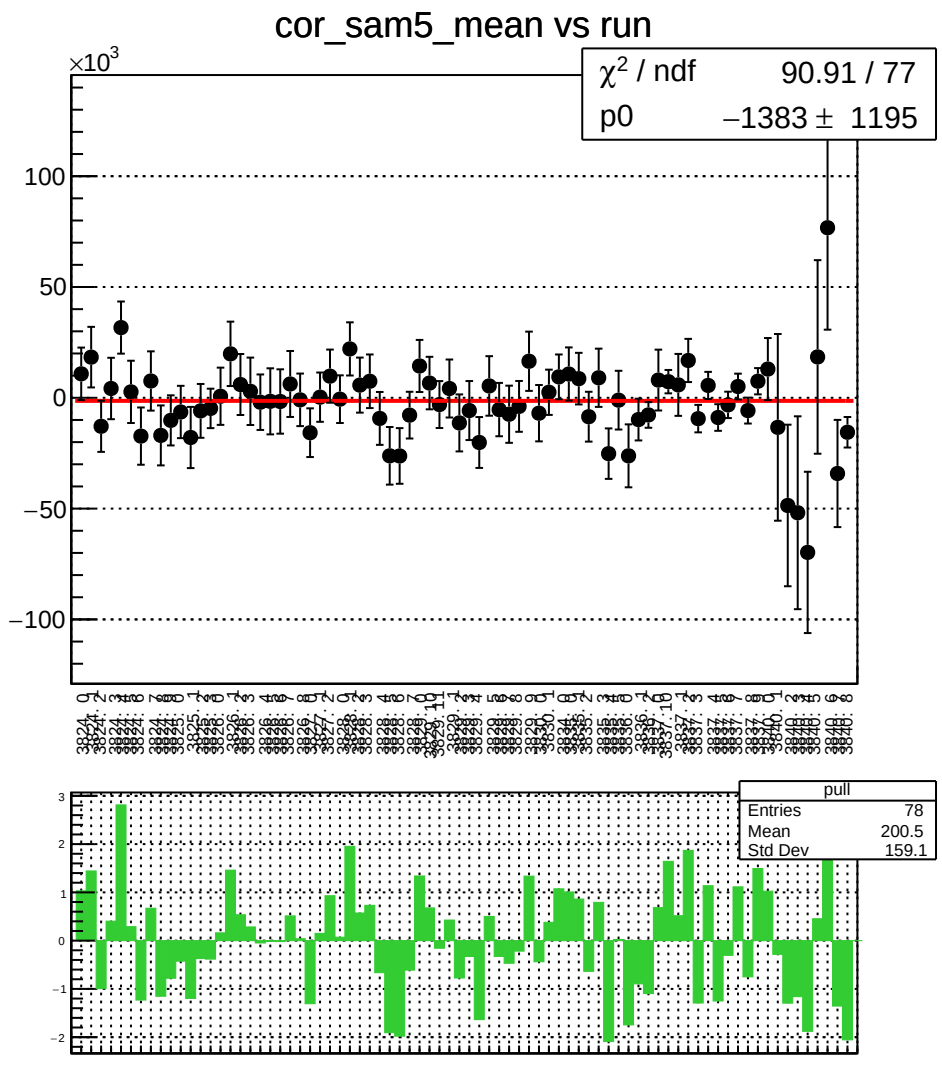

pull1D
Entries 78
Mean −0.00312
Std Dev 0.9483
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

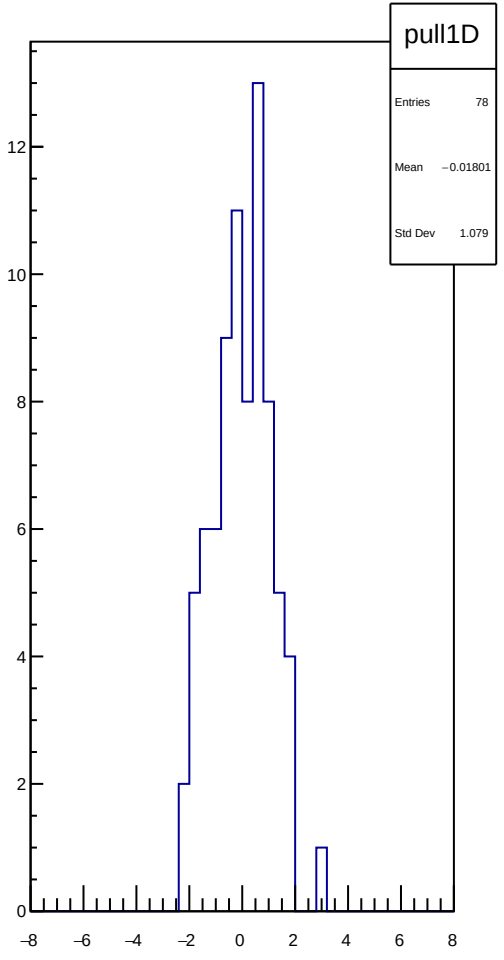

cor_sam3_rms vs run
χ² / ndf 3.345e+04 / 77
p0 1.279e+04 ± 10.57
22000
20000
18000
16000
14000
12000
10000

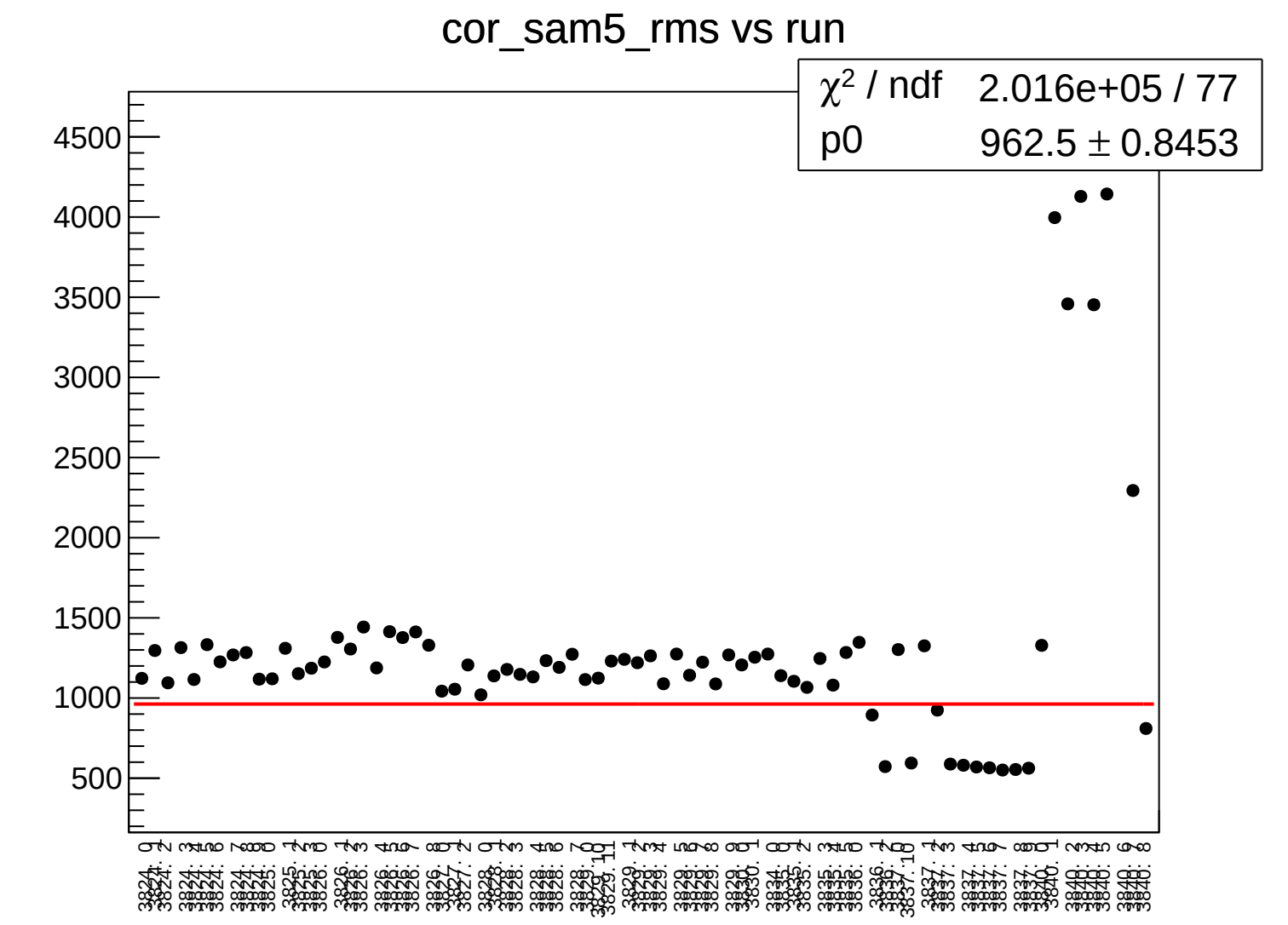

cor_sam4_mean vs run
×10^3
χ² / ndf 82.99 / 77
p0 −4543 ± 7942
pull
Entries 78
Mean 10.6
Std Dev 79.24

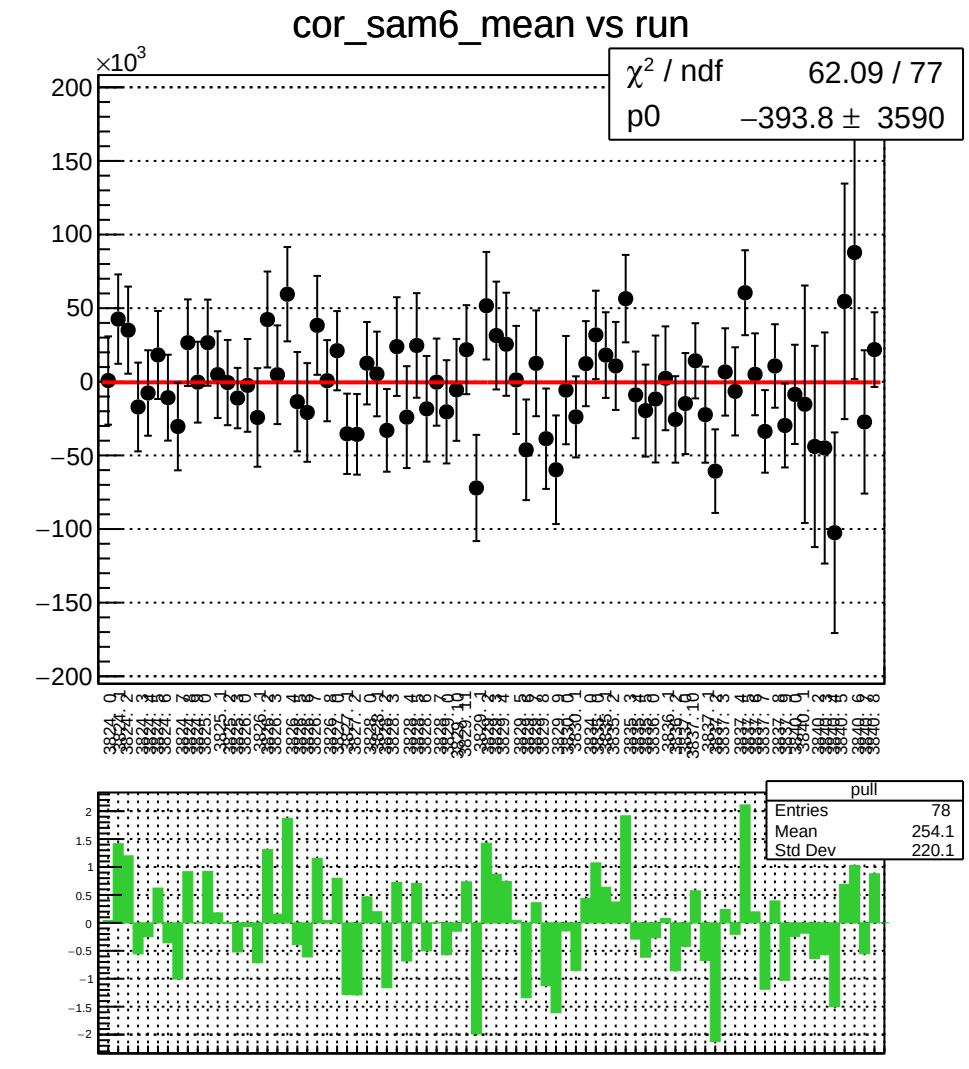

pull1D
Entries 78
Mean −0.007053
Std Dev 1.031

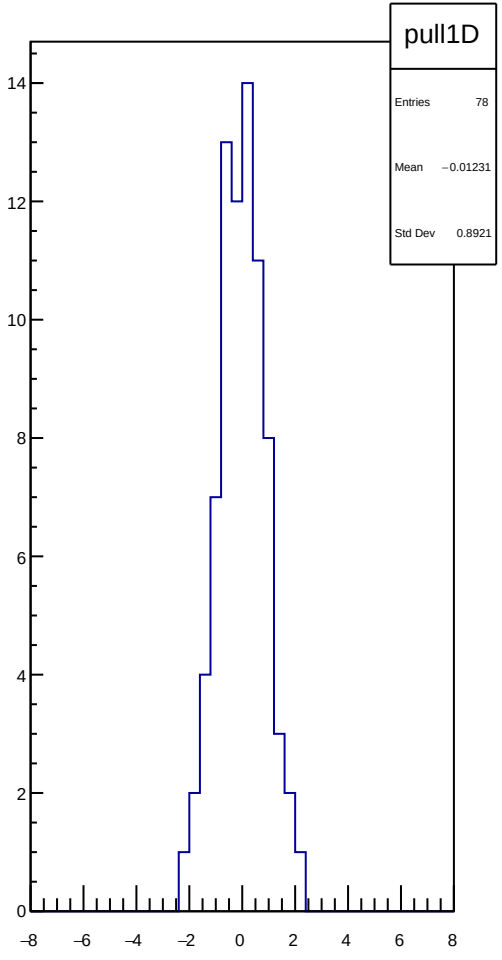

cor_sam4_rms vs run
χ^2 / ndf 1.921e+04 / 77
p0 6829 ± 5.616
9500
9000
8500
8000
7500
7000
6500
6000
5500

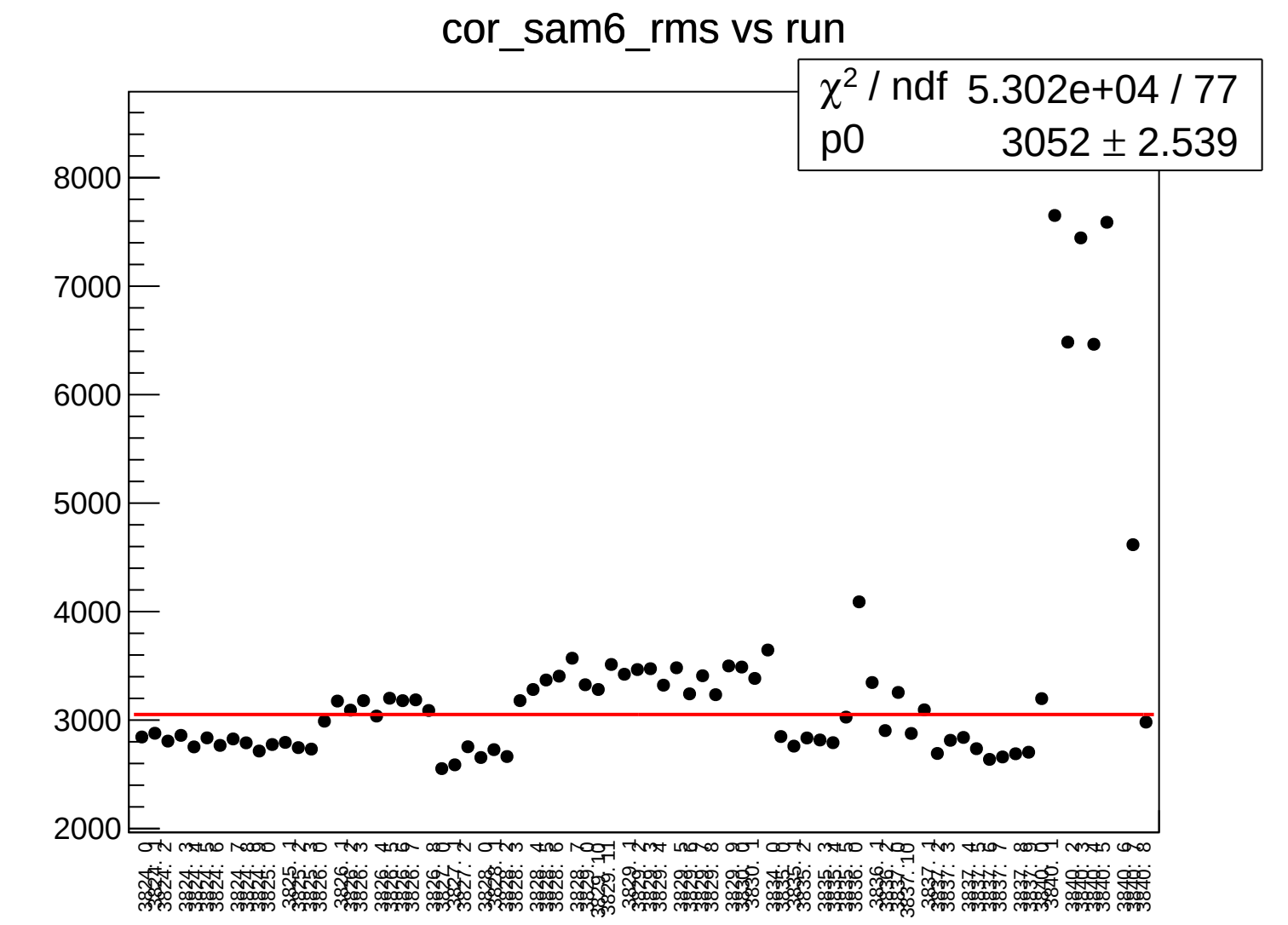

cor_sam5_mean vs run
×10^3
χ² / ndf 90.91 / 77
p0 −1383 ± 1195
100
50
0
−50
−100
pull
Entries 78
Mean 200.5
Std Dev 159.1
3
2
1
0
−1
−2

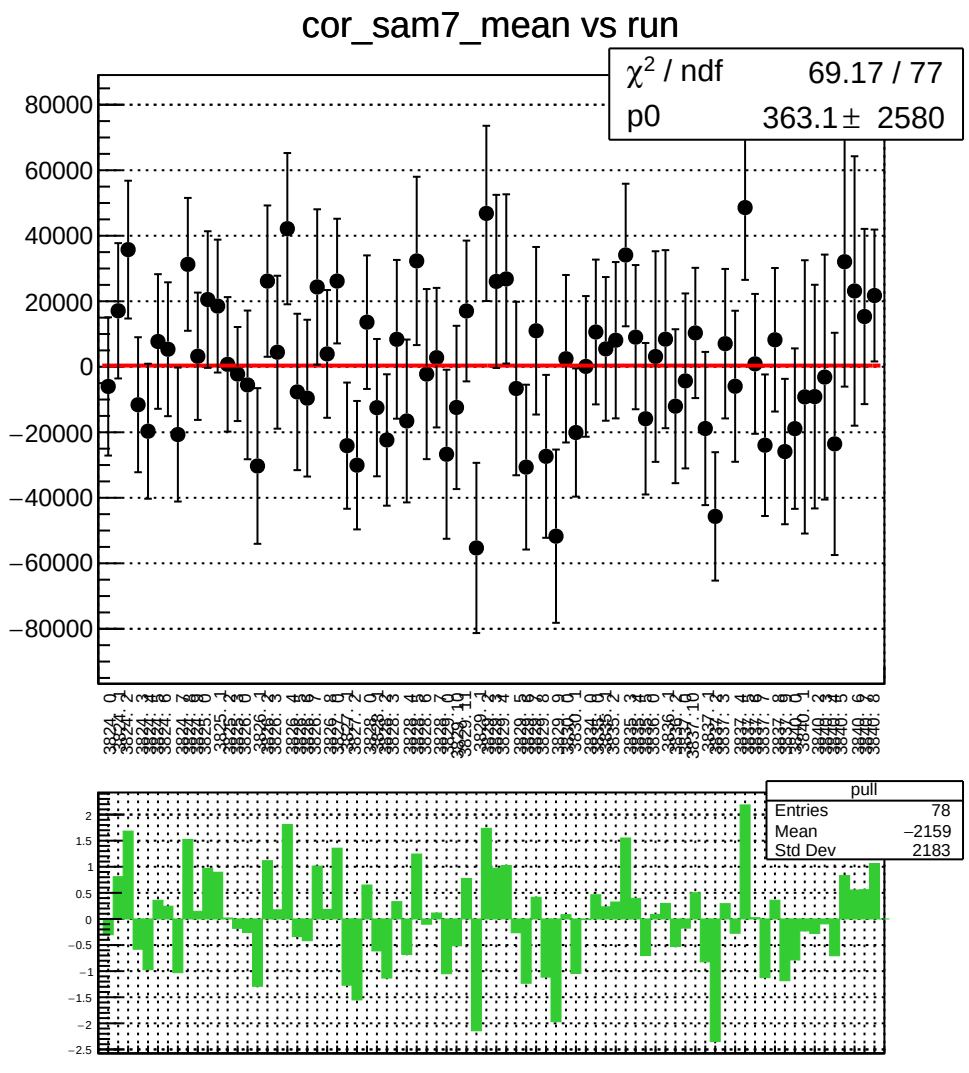

pull1D
Entries 78
Mean −0.01801
Std Dev 1.079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

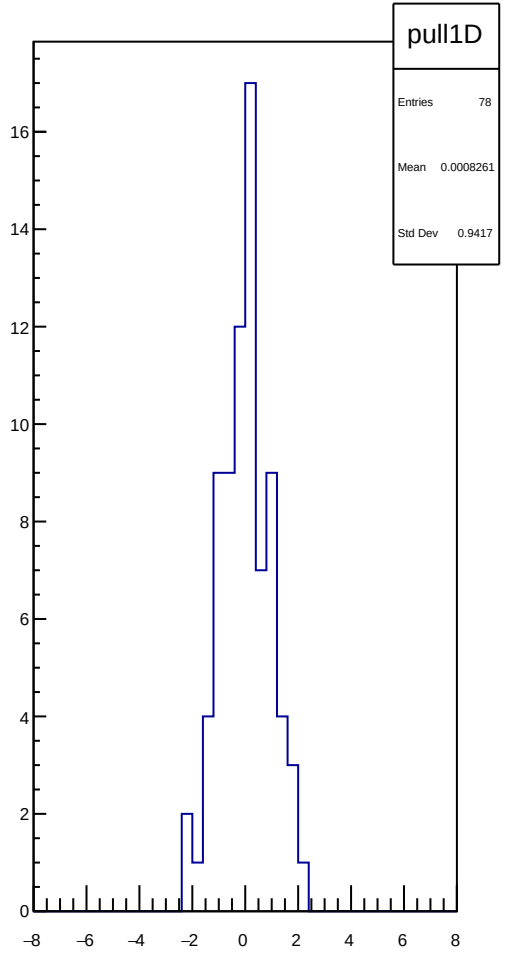

cor_sam5_rms vs run
χ^2 / ndf 2.016e+05 / 77
p0 962.5 ± 0.8453
4500
4000
3500
3000
2500
2000
1500
1000
500

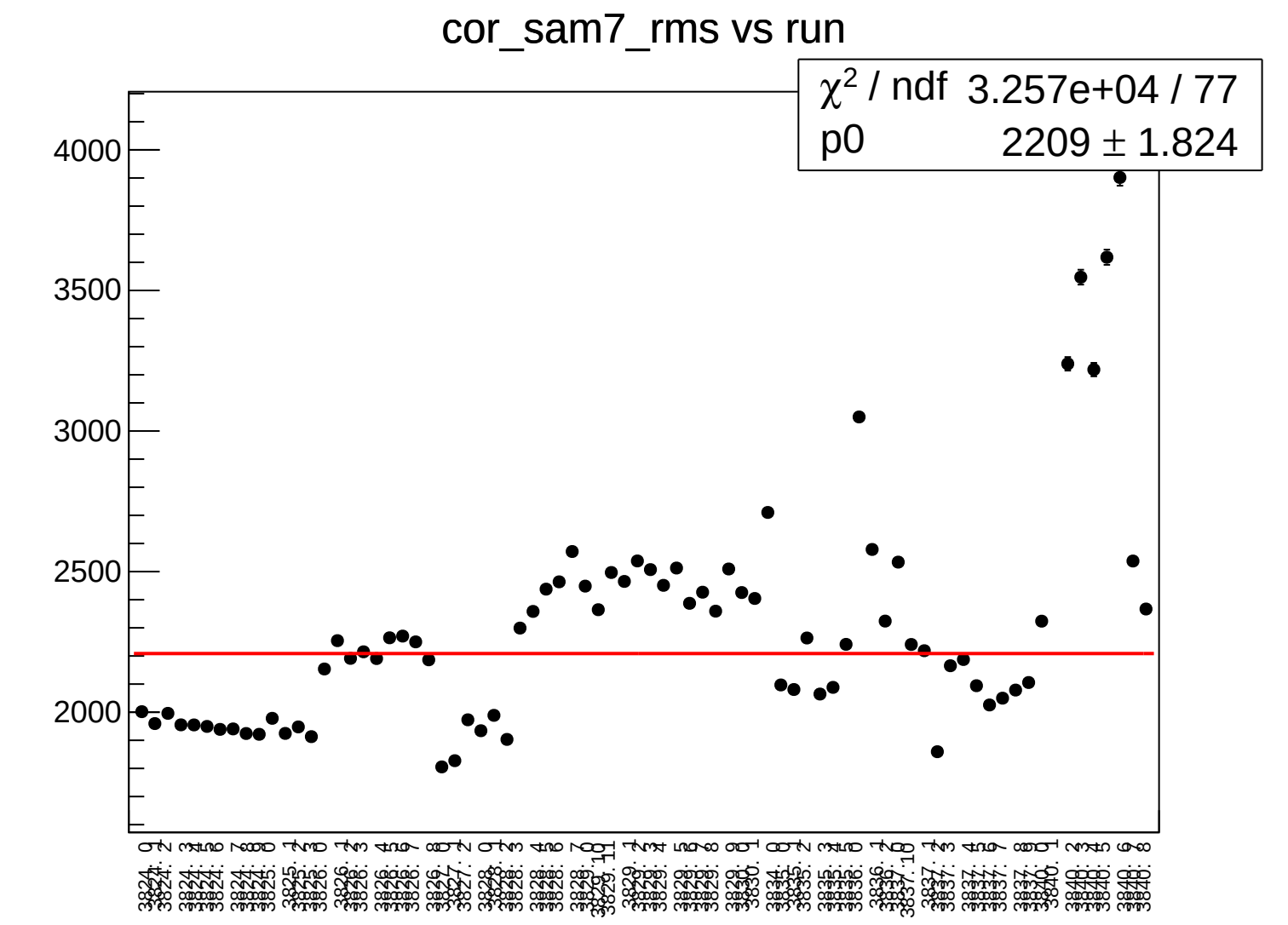

cor_sam6_mean vs run
×10^3
χ² / ndf 62.09 / 77
p0 −393.8 ± 3590
pull
Entries 78
Mean 254.1
Std Dev 220.1

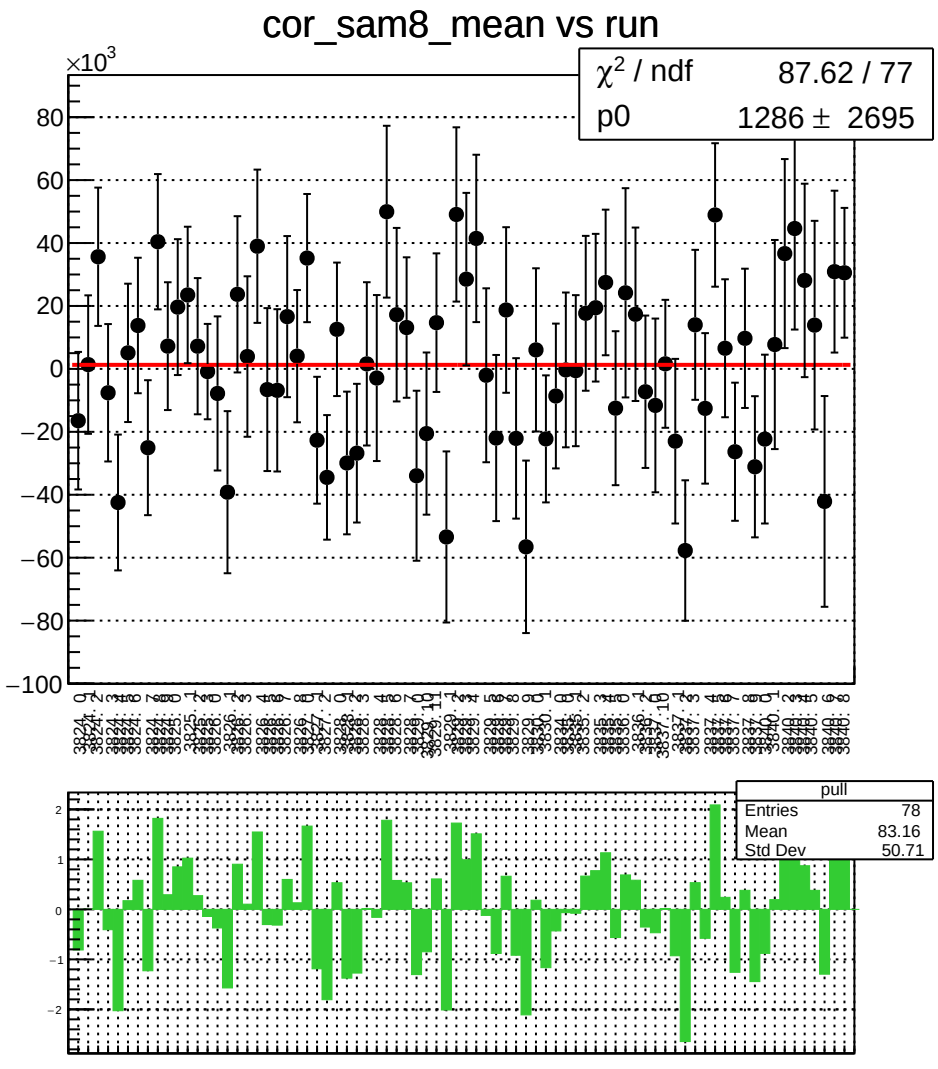

pull1D
Entries 78
Mean −0.01231
Std Dev 0.8921

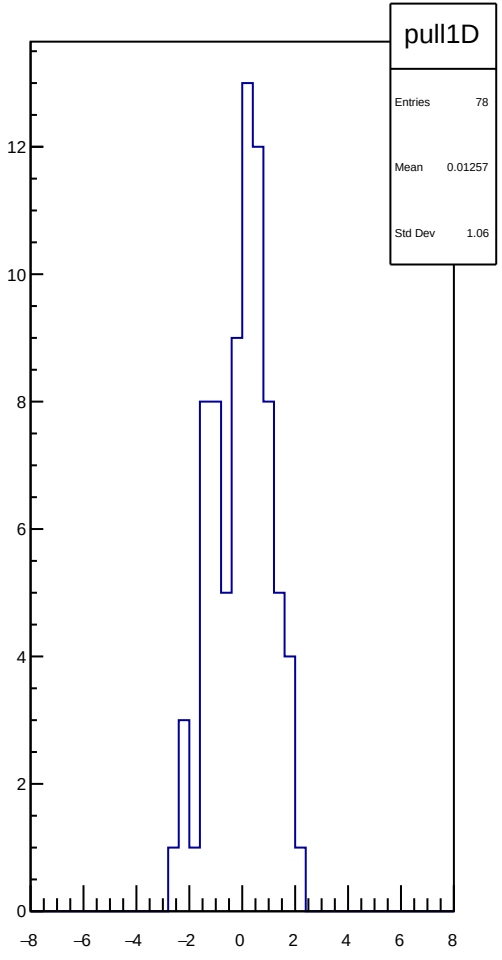

cor_sam6_rms vs run
χ² / ndf 5.302e+04 / 77
p0 3052 ± 2.539
8000
7000
6000
5000
4000
3000
2000

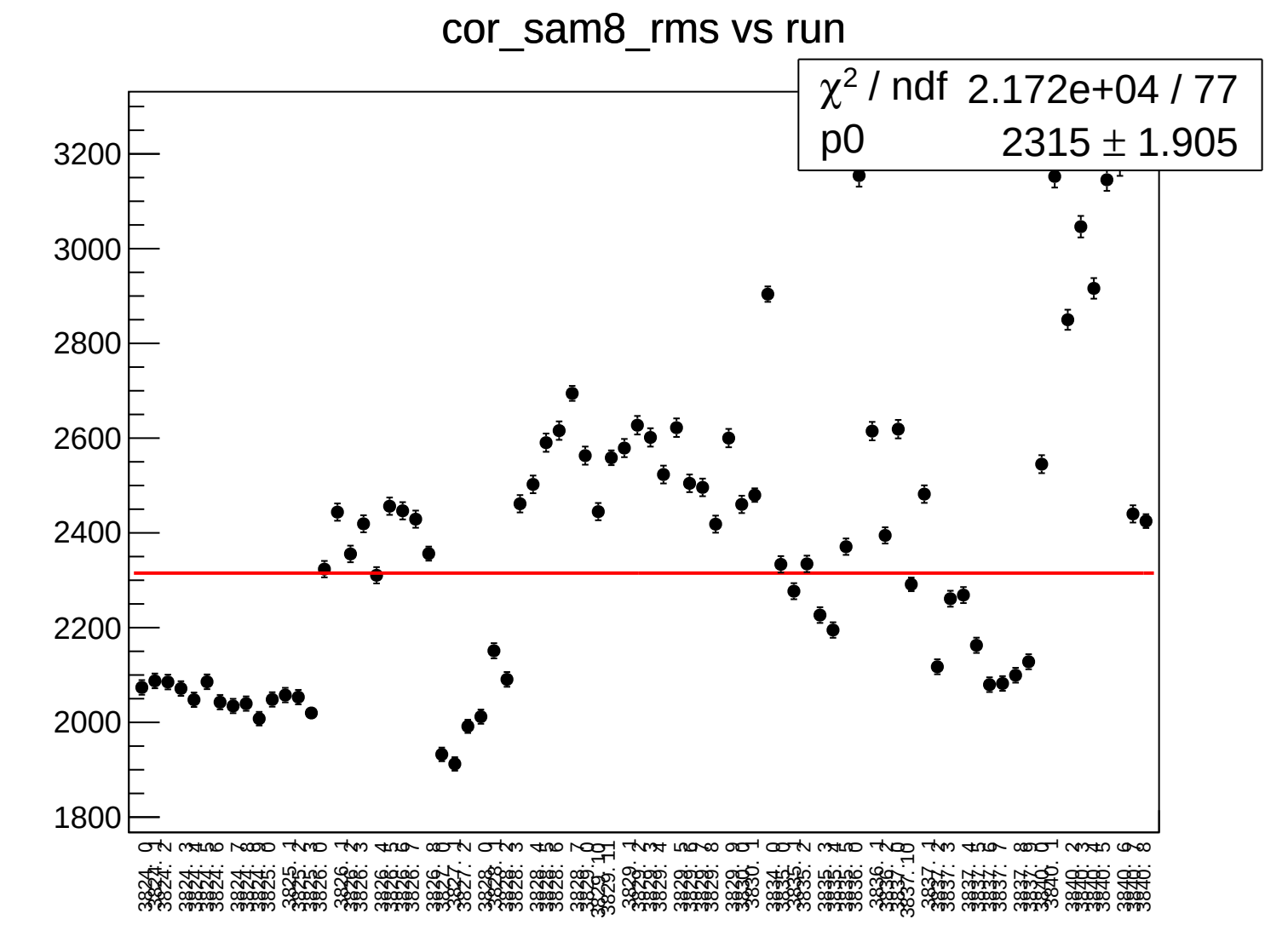

cor_sam7_mean vs run
χ² / ndf 69.17 / 77
p0 363.1 ± 2580
pull
Entries 78
Mean −2159
Std Dev 2183

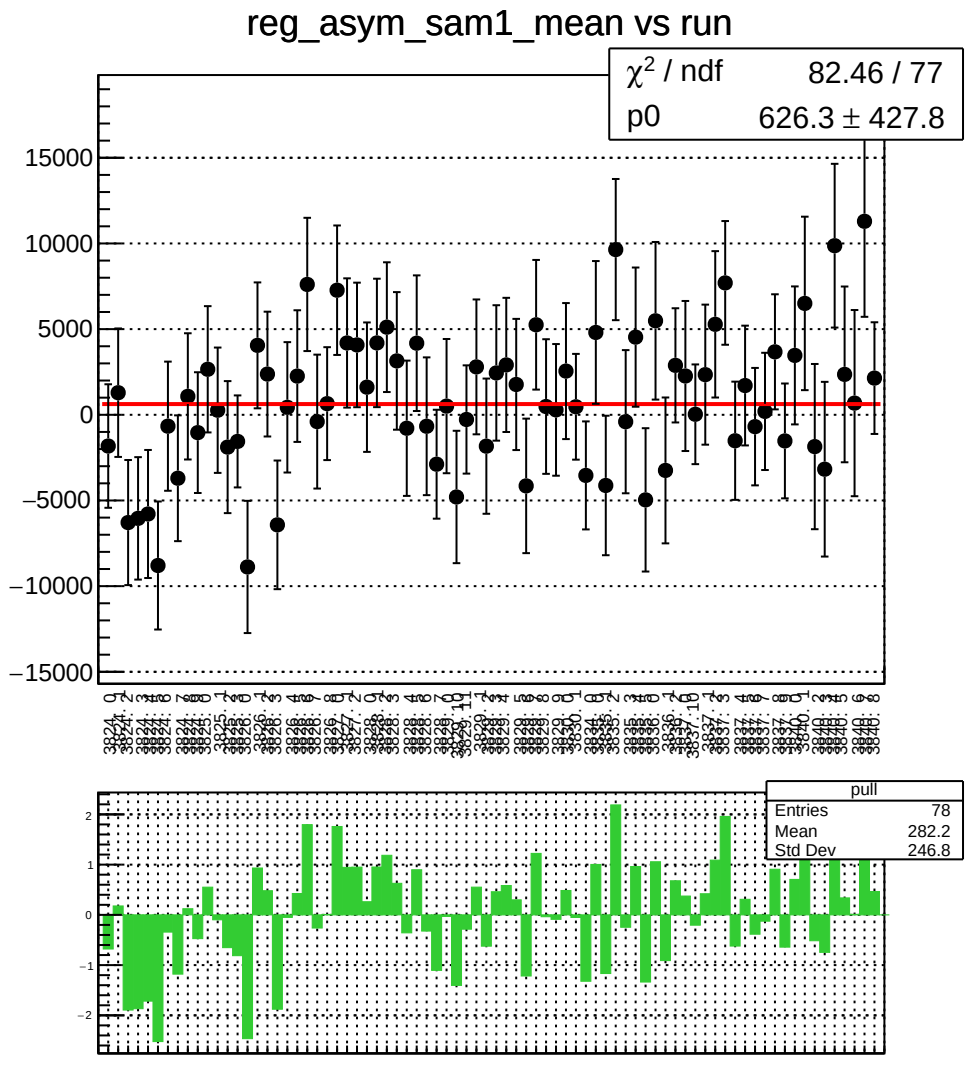

pull1D
Entries 78
Mean 0.0008261
Std Dev 0.9417

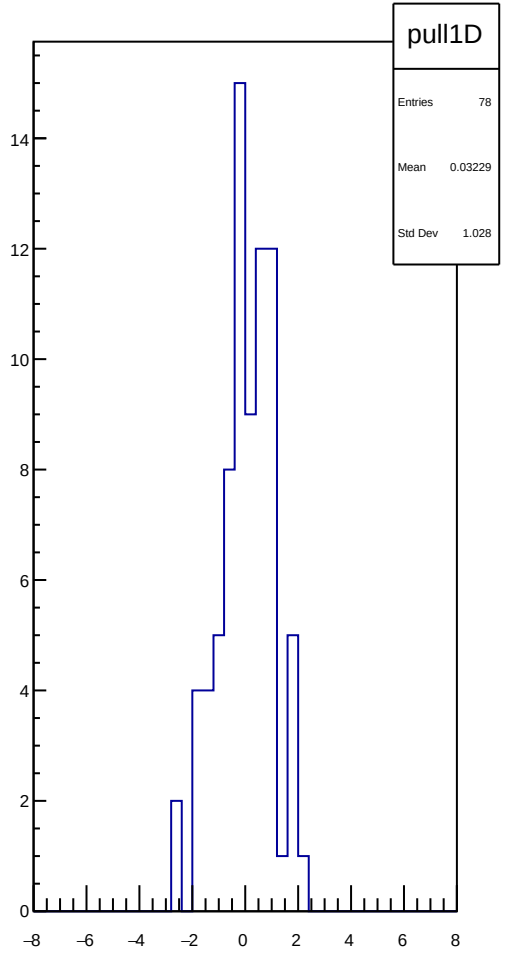

cor_sam7_rms vs run
χ² / ndf 3.257e+04 / 77
p0 2209 ± 1.824
4000
3500
3000
2500
2000

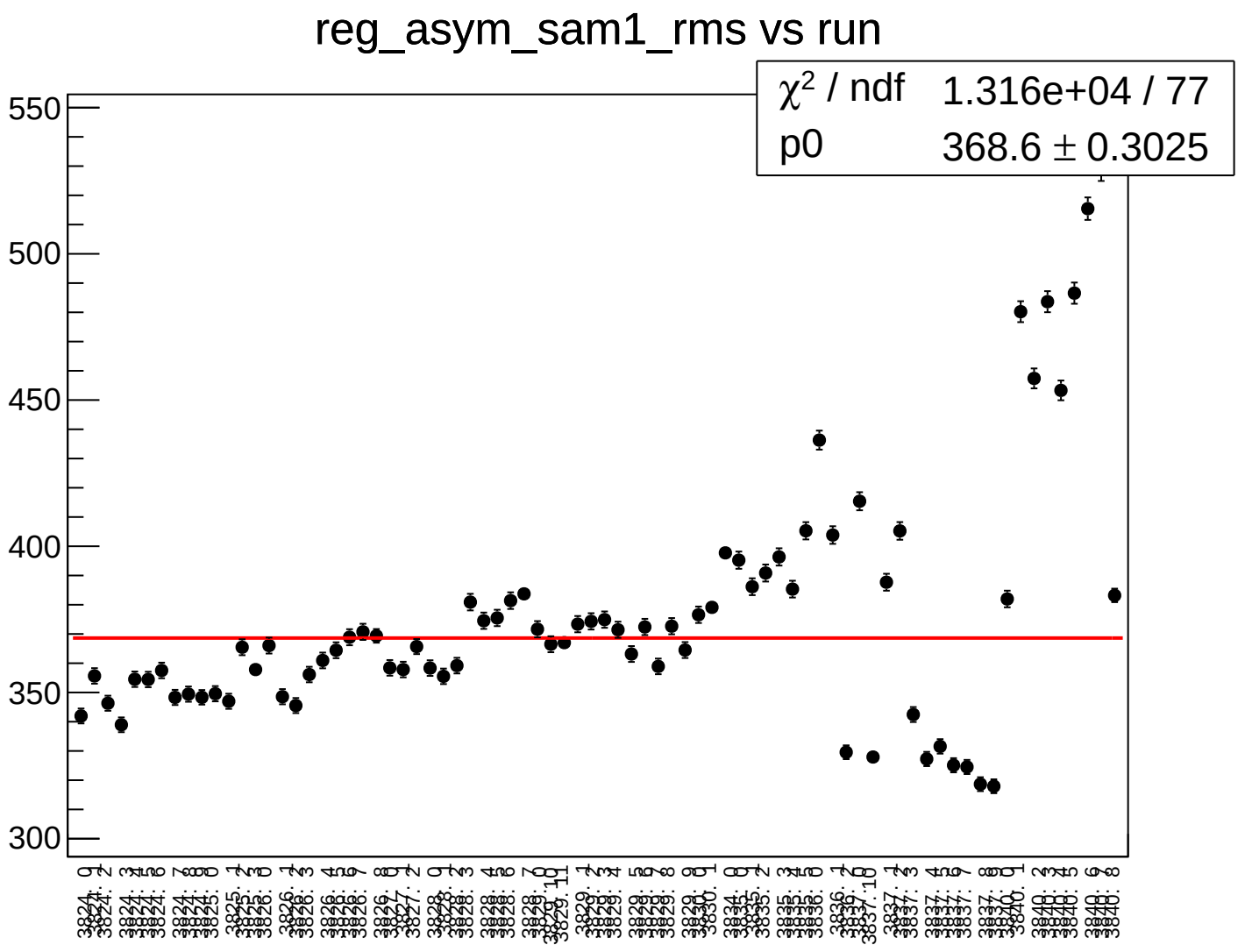

cor_sam8_mean vs run
×10^3
χ^2 / ndf 87.62 / 77
p0 1286 ± 2695
pull
Entries 78
Mean 83.16
Std Dev 50.71

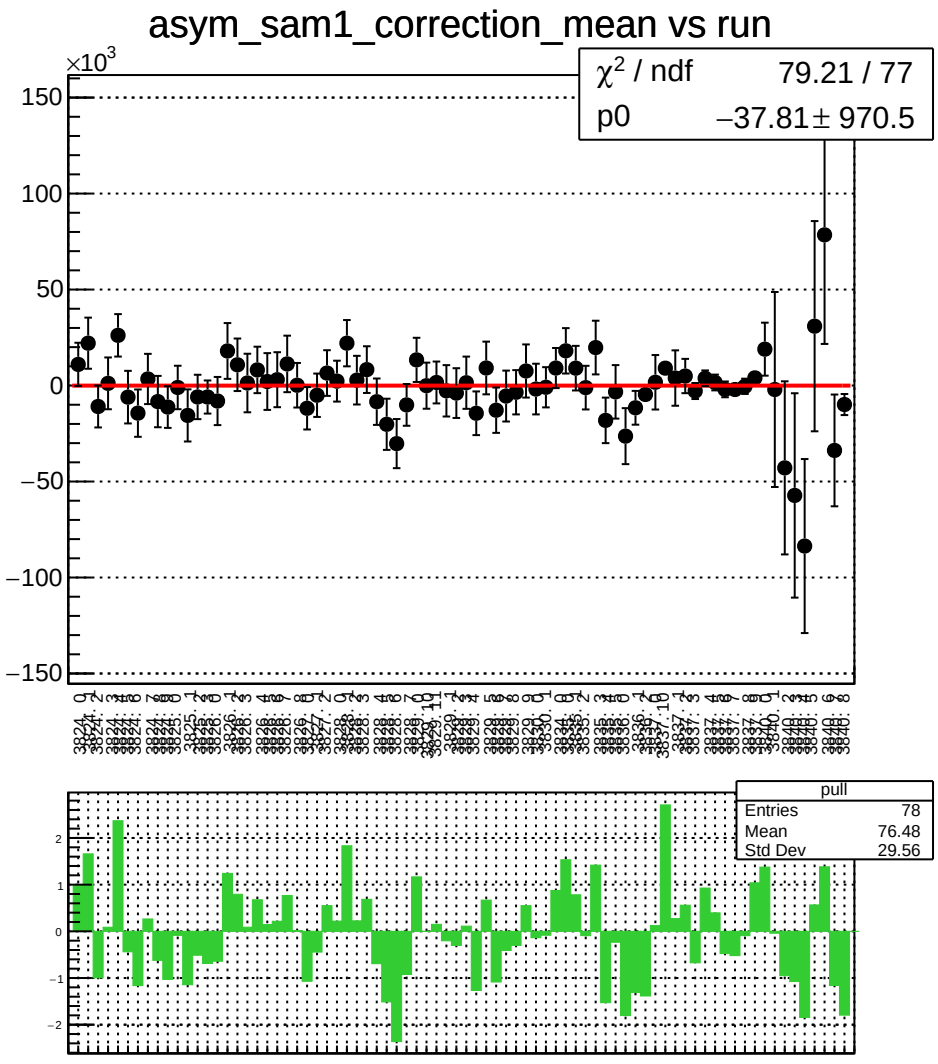

pull1D
Entries 78
Mean 0.01257
Std Dev 1.06

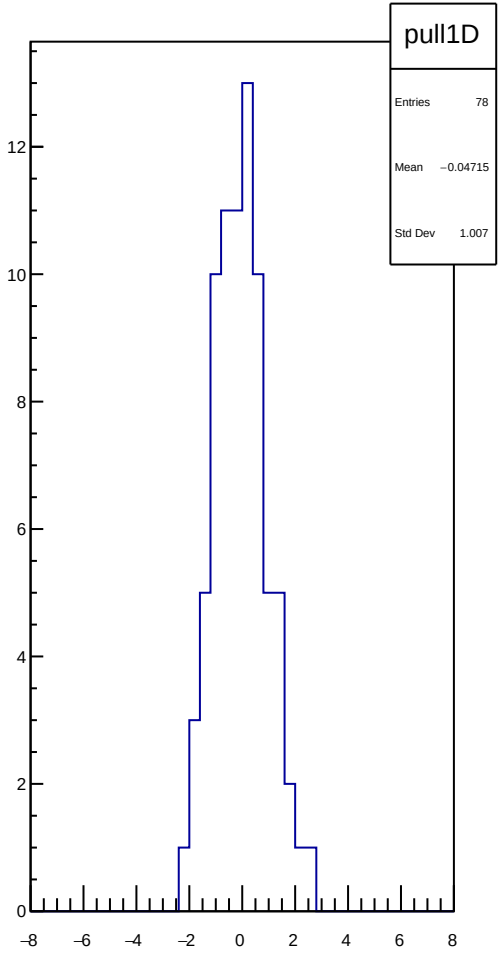

cor_sam8_rms vs run
χ² / ndf 2.172e+04 / 77
p0 2315 ± 1.905
3200
3000
2800
2600
2400
2200
2000
1800


reg_asym_sam1_mean vs run
χ² / ndf 82.46 / 77
p0 626.3 ± 427.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean 282.2
Std Dev 246.8
2
1
0
−1
−2

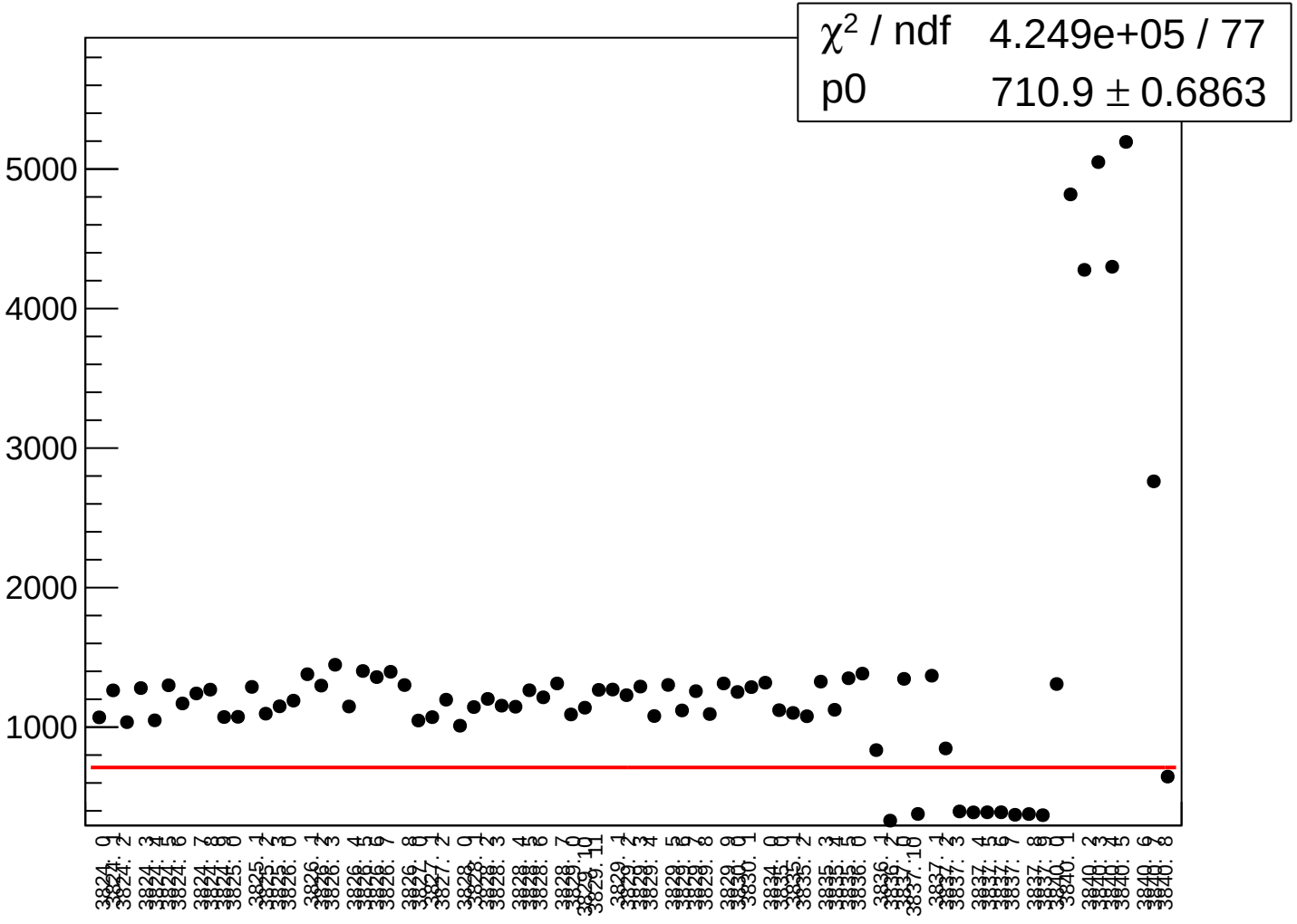

pull1D
Entries 78
Mean 0.03229
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

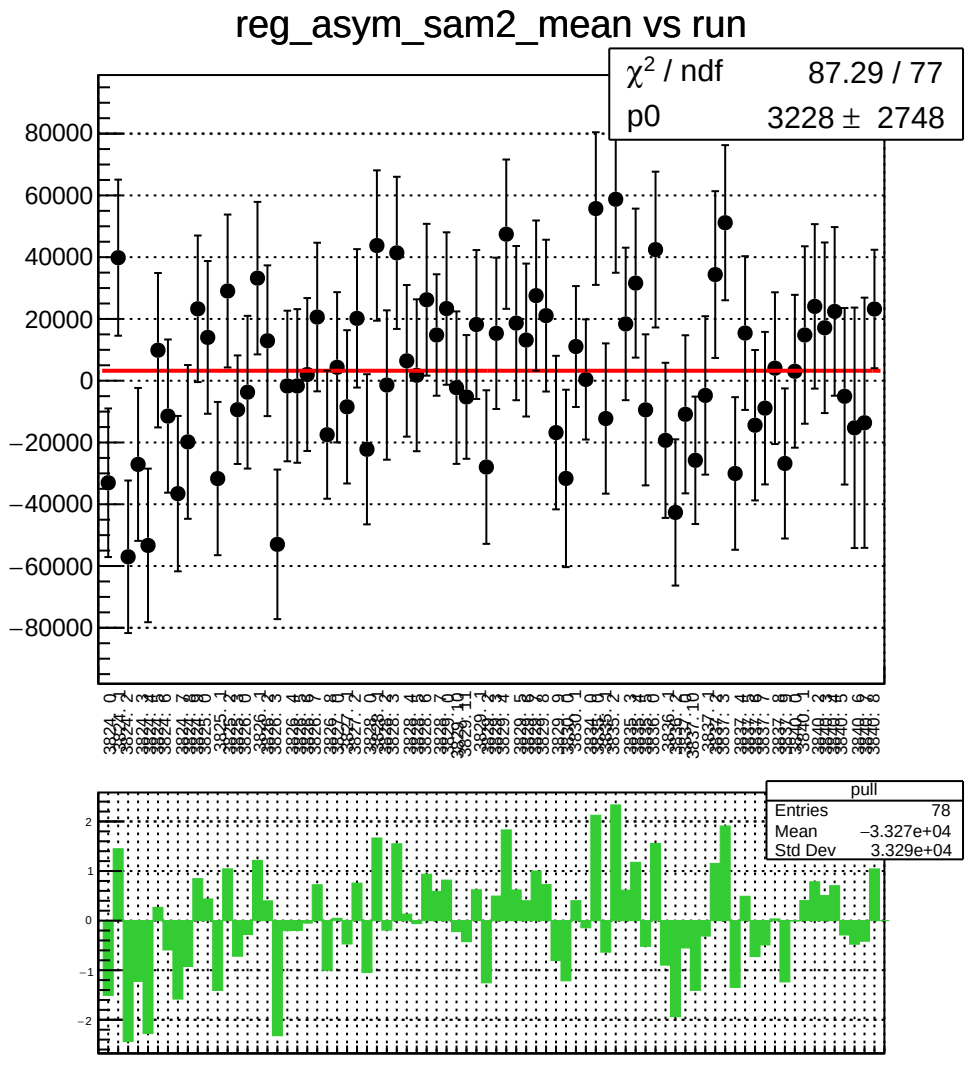

reg_asym_sam1_rms vs run
χ^2 / ndf 1.316e+04 / 77
p0 368.6 ± 0.3025
550
500
450
400
350
300

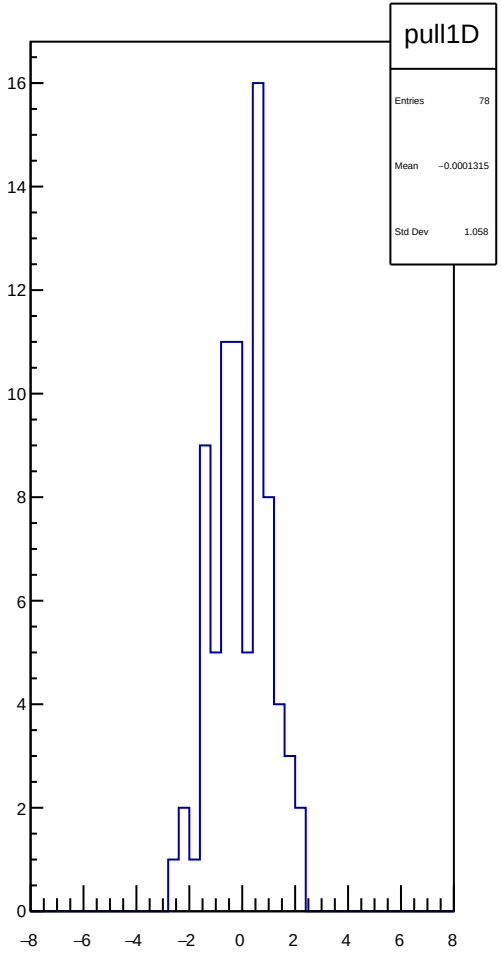

asym_sam1_correction_mean vs run
×10^3
χ^2 / ndf 79.21 / 77
p0 −37.81 ± 970.5
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 76.48
Std Dev 29.56
2
1
0
−1
−2

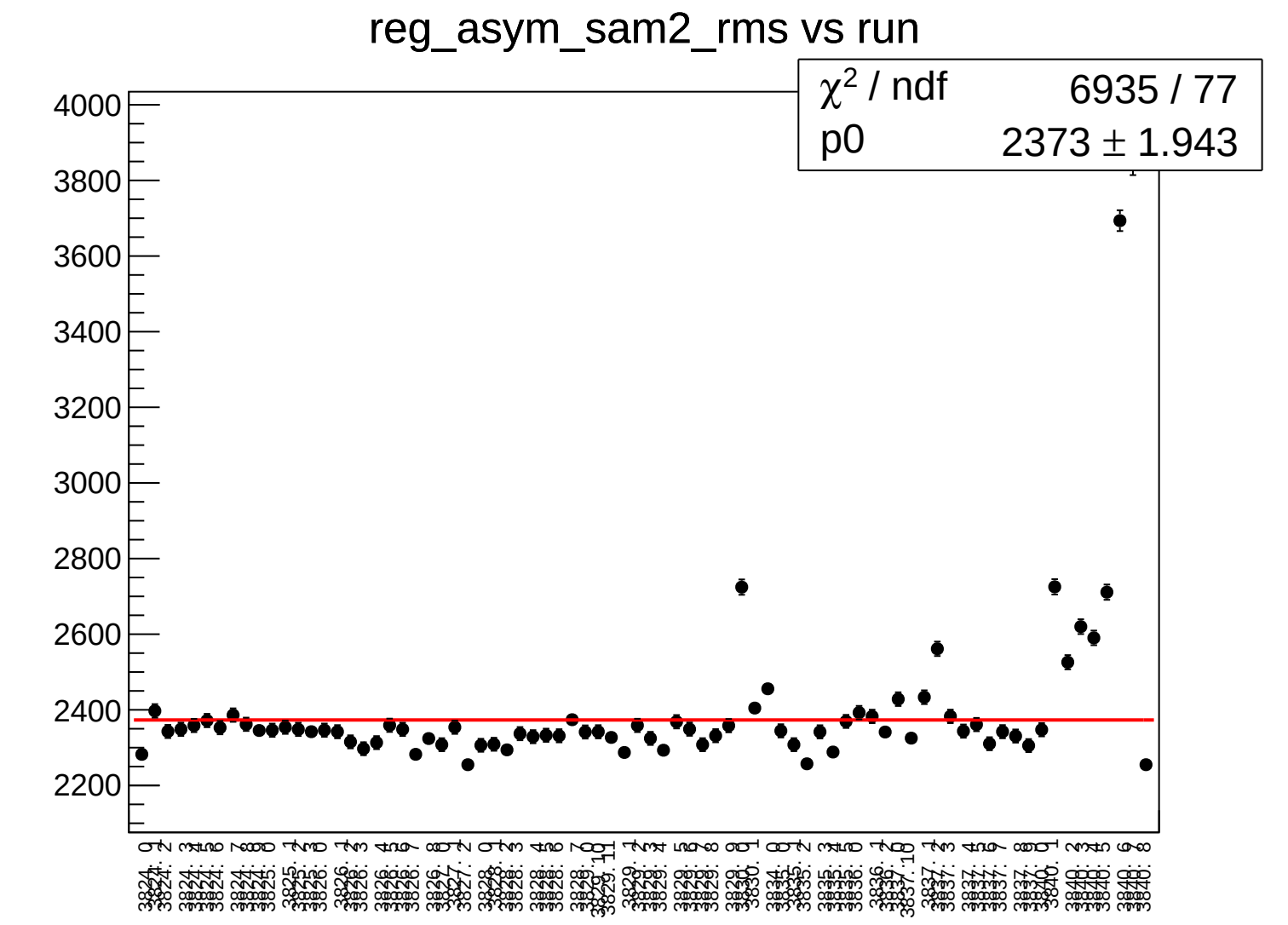

pull1D
Entries 78
Mean −0.04715
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

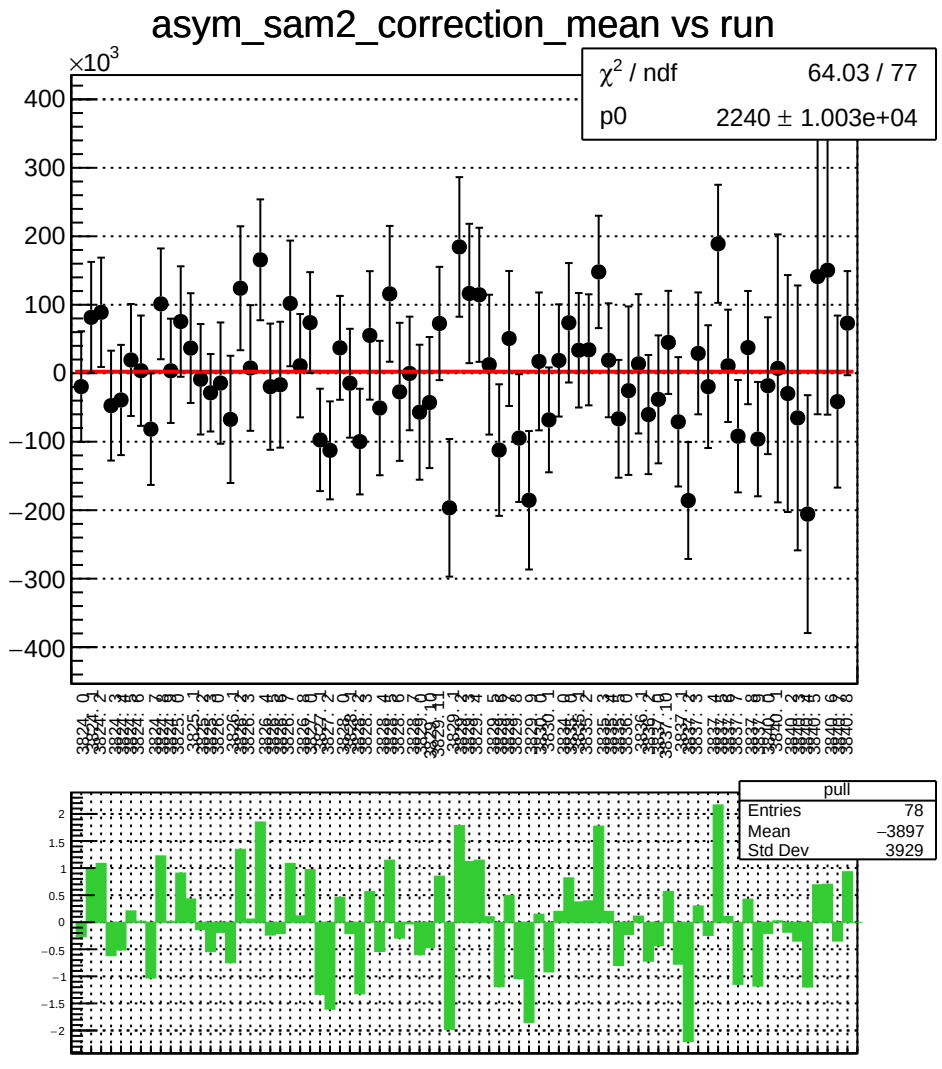
asym_sam1_correction_rms vs run

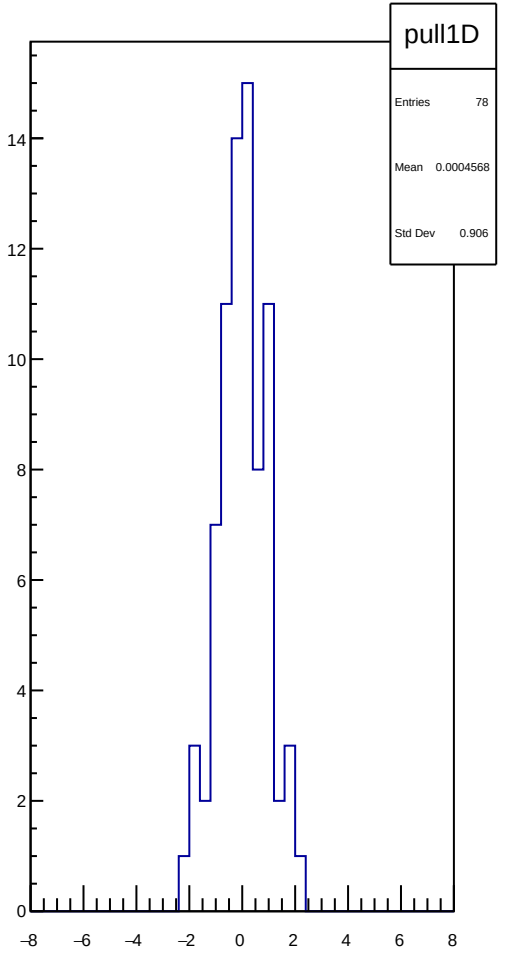


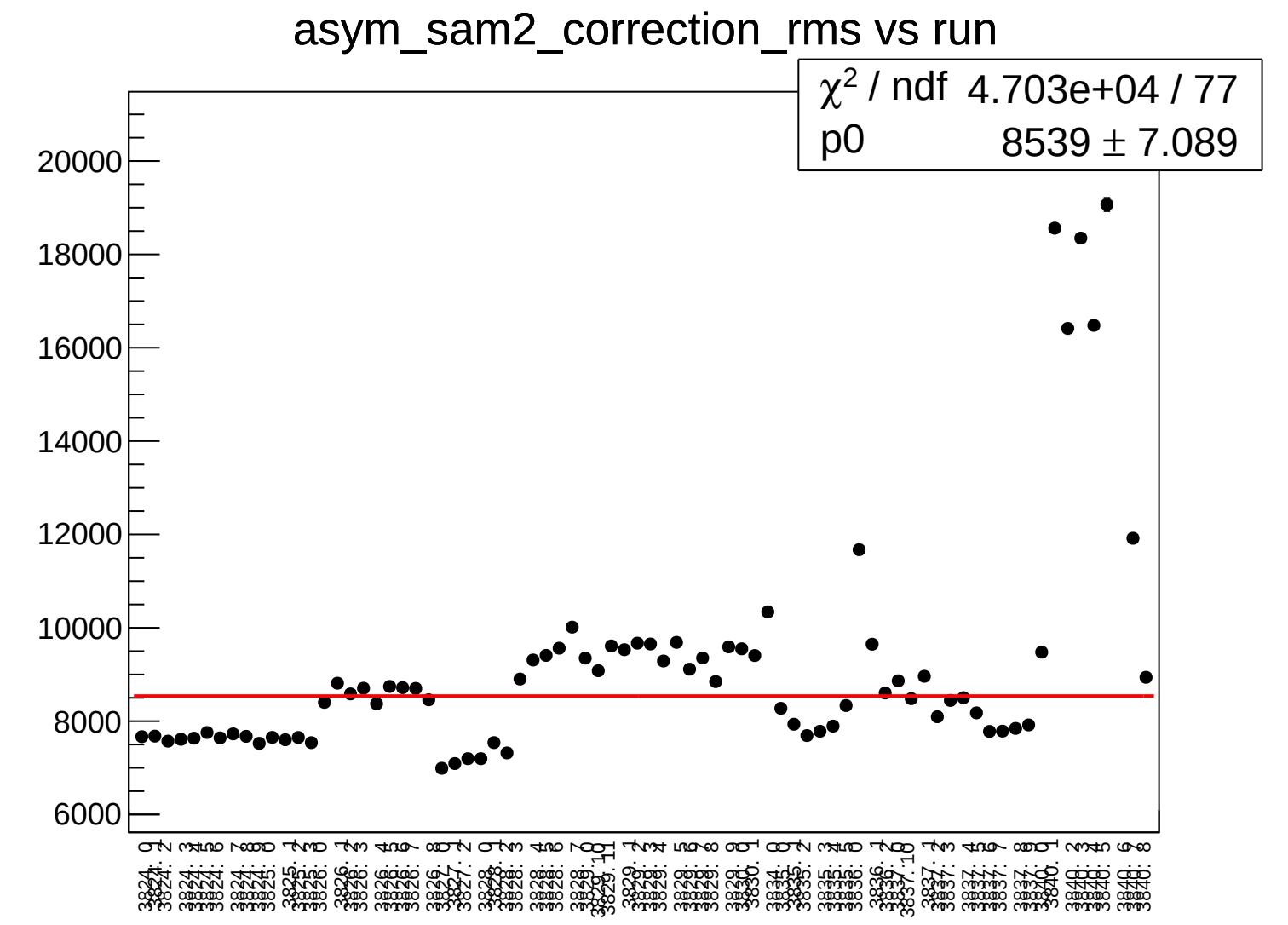

reg_asym_sam2_mean vs run
χ² / ndf 87.29 / 77
p0 3228 ± 2748
pull
Entries 78
Mean −3.327e+04
Std Dev 3.329e+04

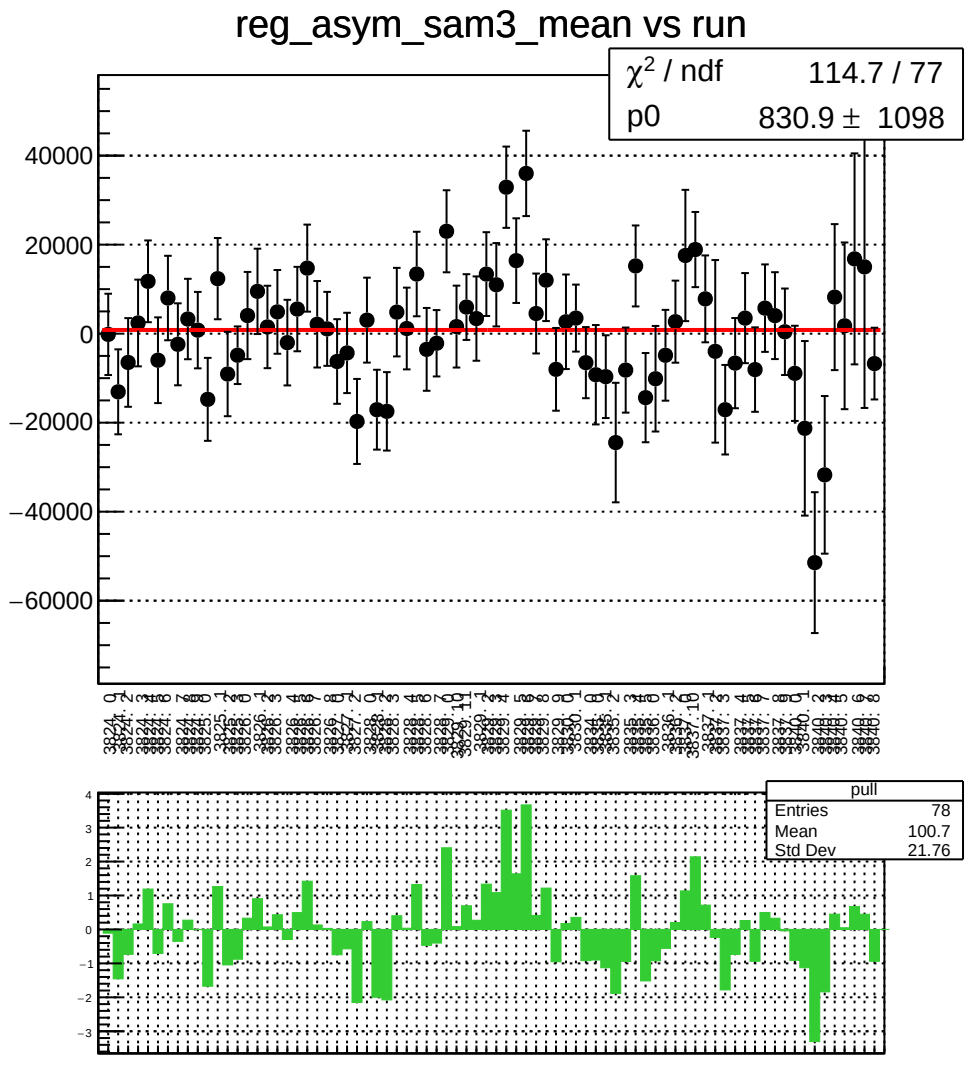

pull1D
Entries 78
Mean −0.0001315
Std Dev 1.058

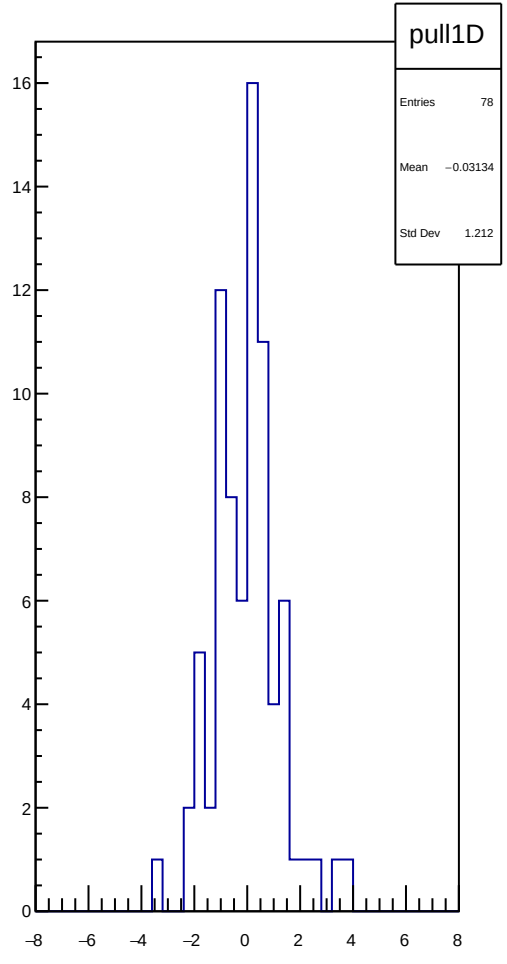

reg_asym_sam2_rms vs run
χ² / ndf 6935 / 77
p0 2373 ± 1.943
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

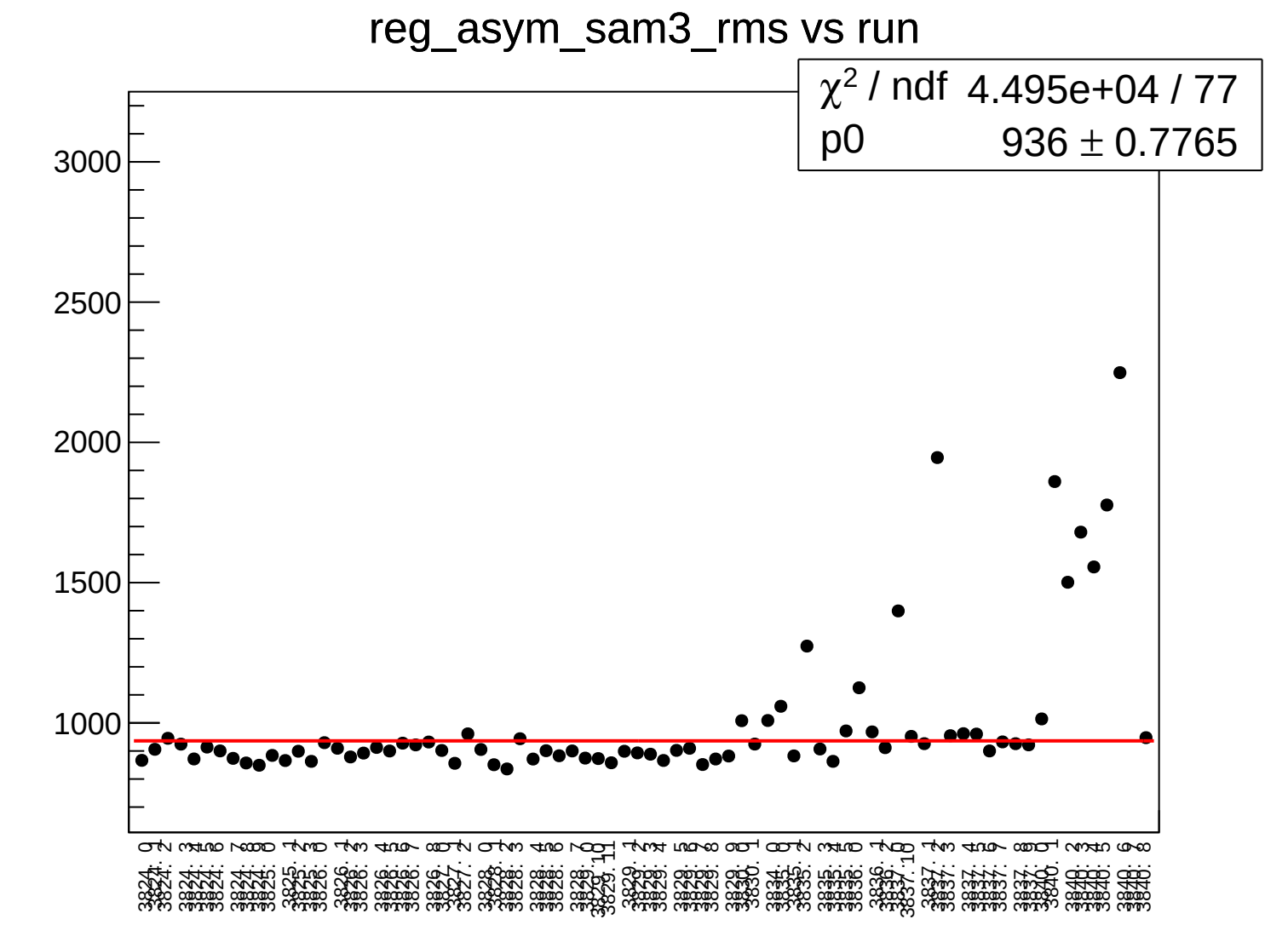

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 64.03 / 77
p0 2240 ± 1.003e+04
pull
Entries 78
Mean −3897
Std Dev 3929

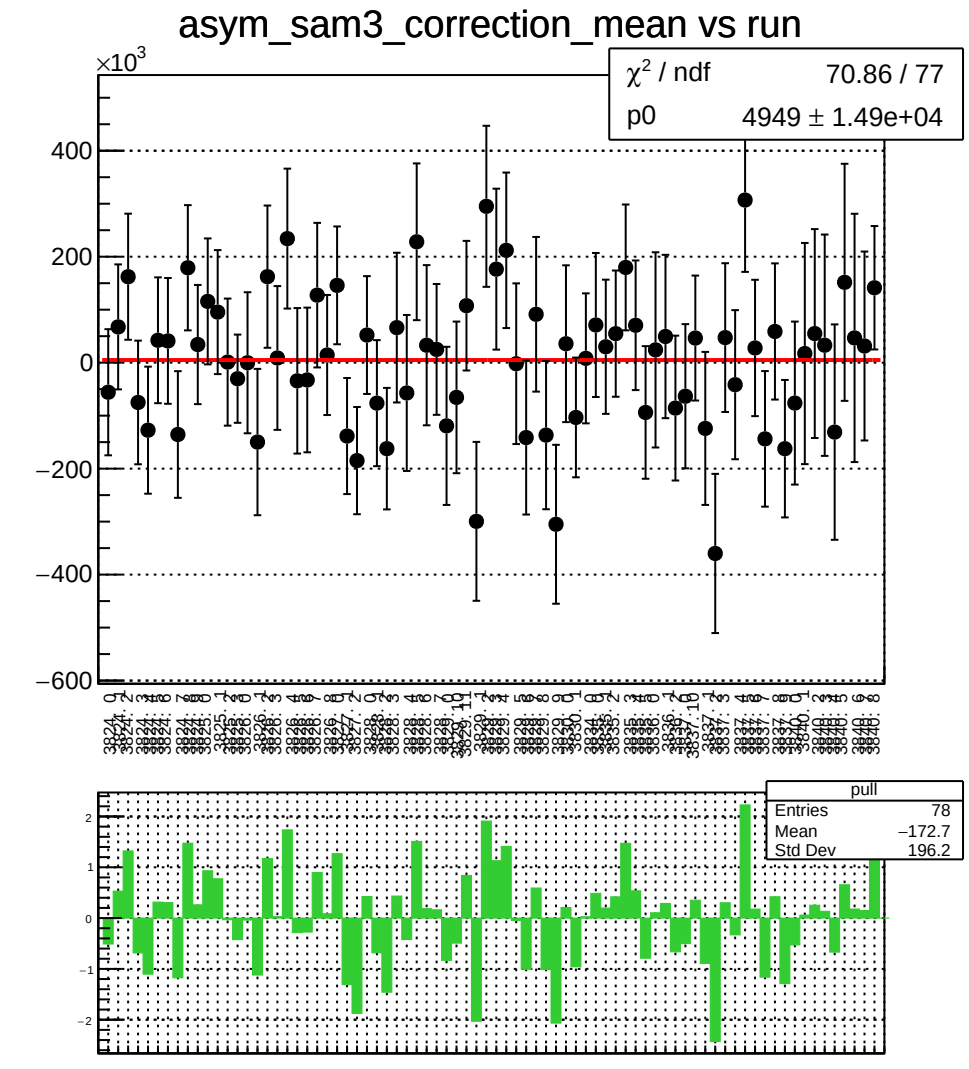

pull1D
Entries 78
Mean 0.0004568
Std Dev 0.906

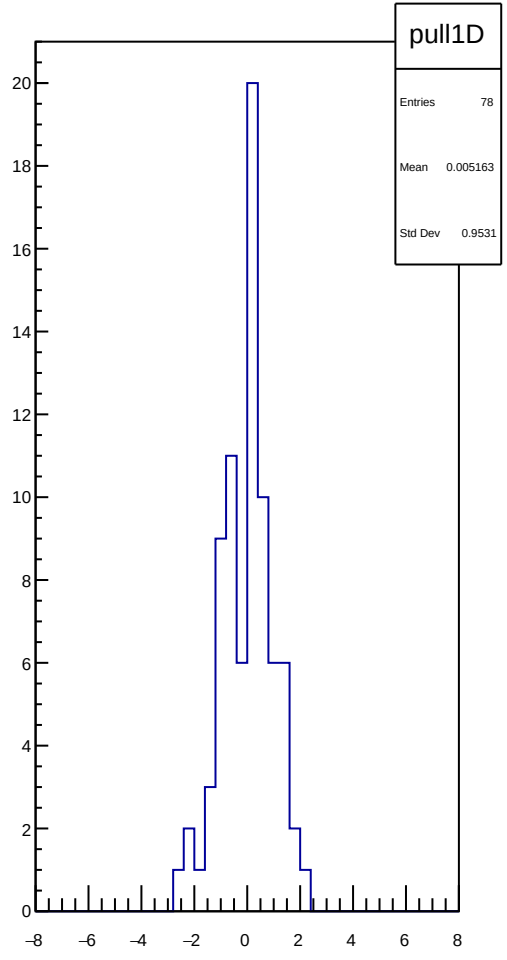

asym_sam2_correction_rms vs run
χ² / ndf 4.703e+04 / 77
p0 8539 ± 7.089
20000
18000
16000
14000
12000
10000
8000
6000

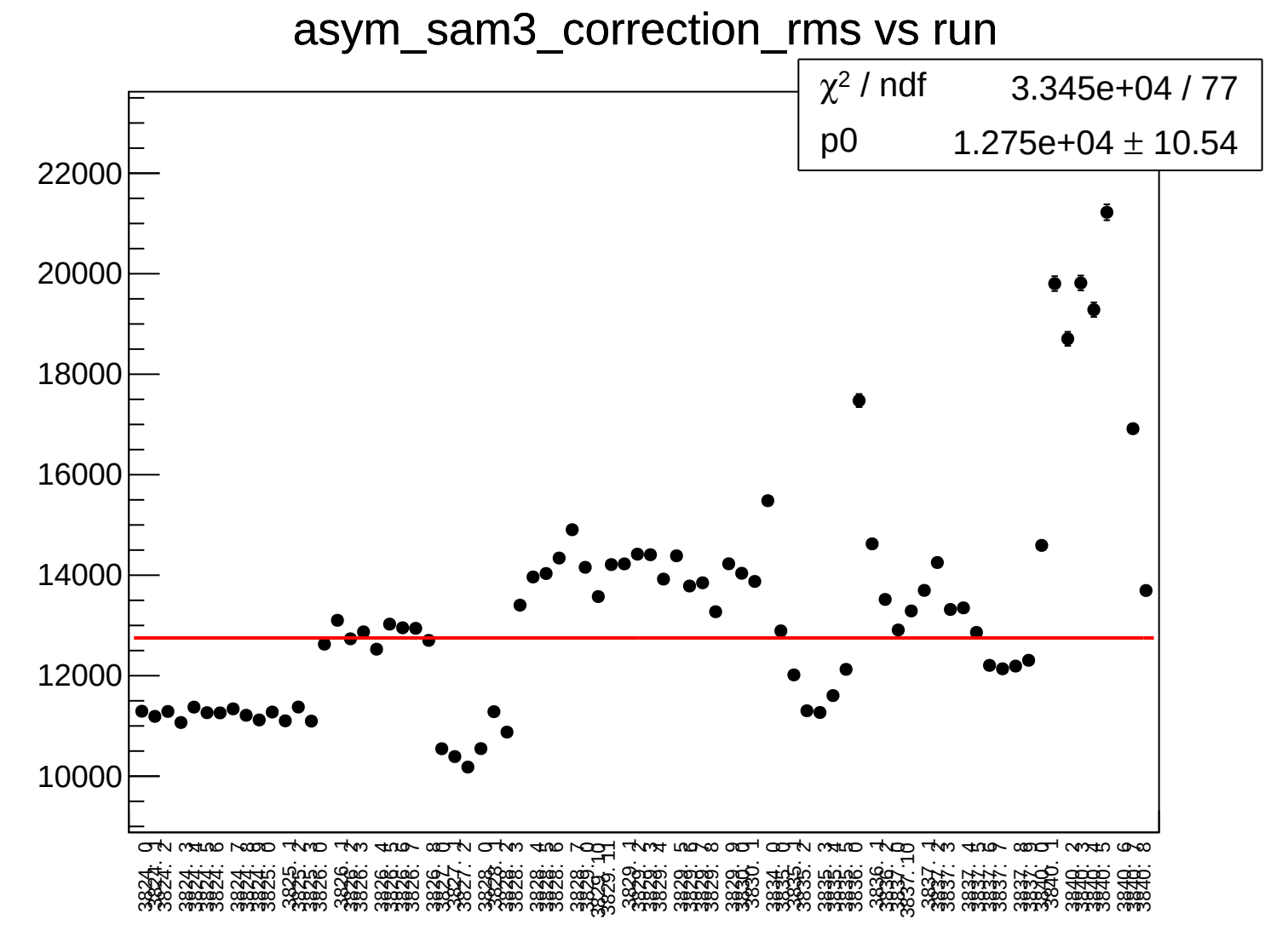

reg_asym_sam3_mean vs run
χ² / ndf 114.7 / 77
p0 830.9 ± 1098
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean 100.7
Std Dev 21.76
4
3
2
1
0
−1
−2
−3

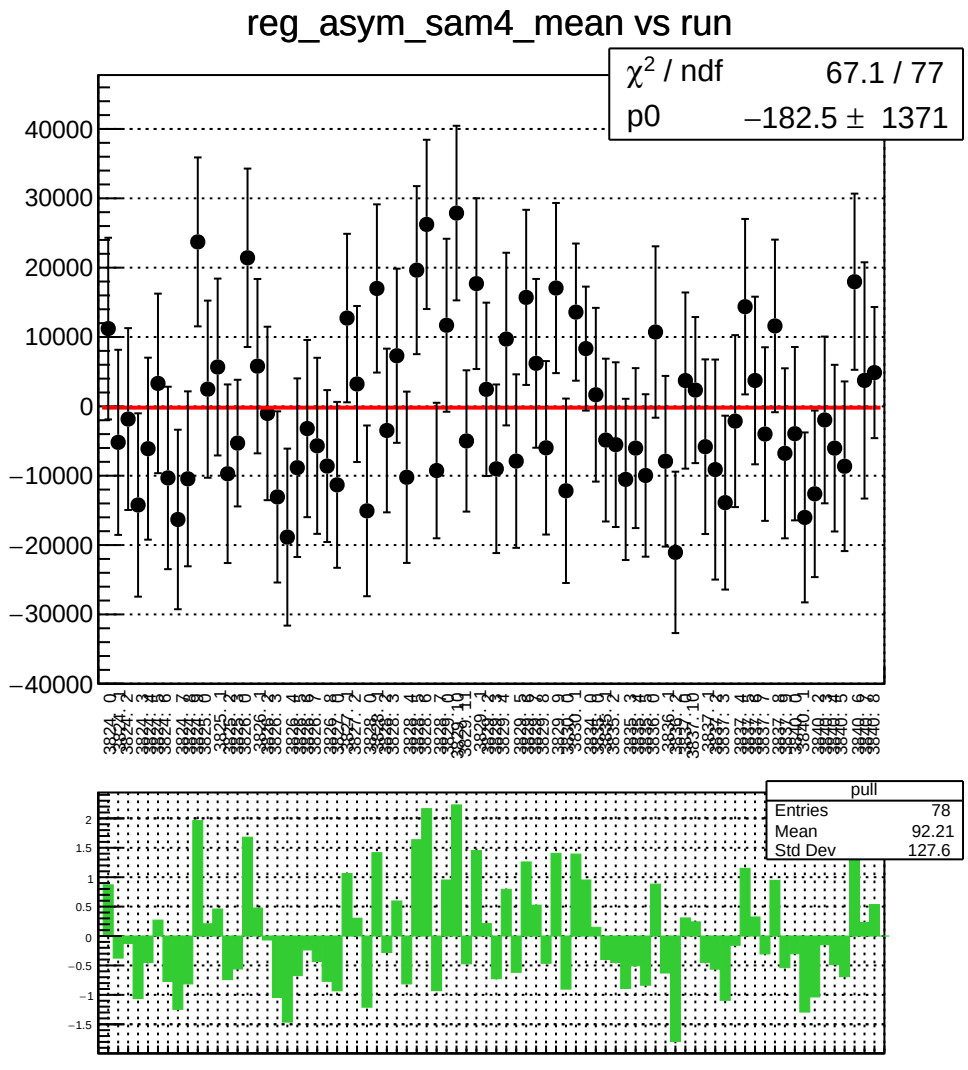

pull1D
Entries 78
Mean −0.03134
Std Dev 1.212
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

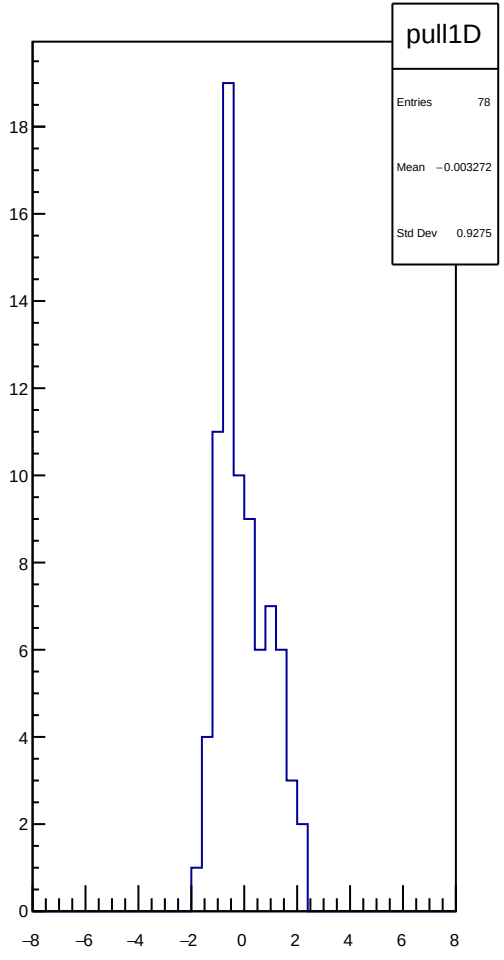

reg_asym_sam3_rms vs run
χ² / ndf 4.495e+04 / 77
p0 936 ± 0.7765
3000
2500
2000
1500
1000

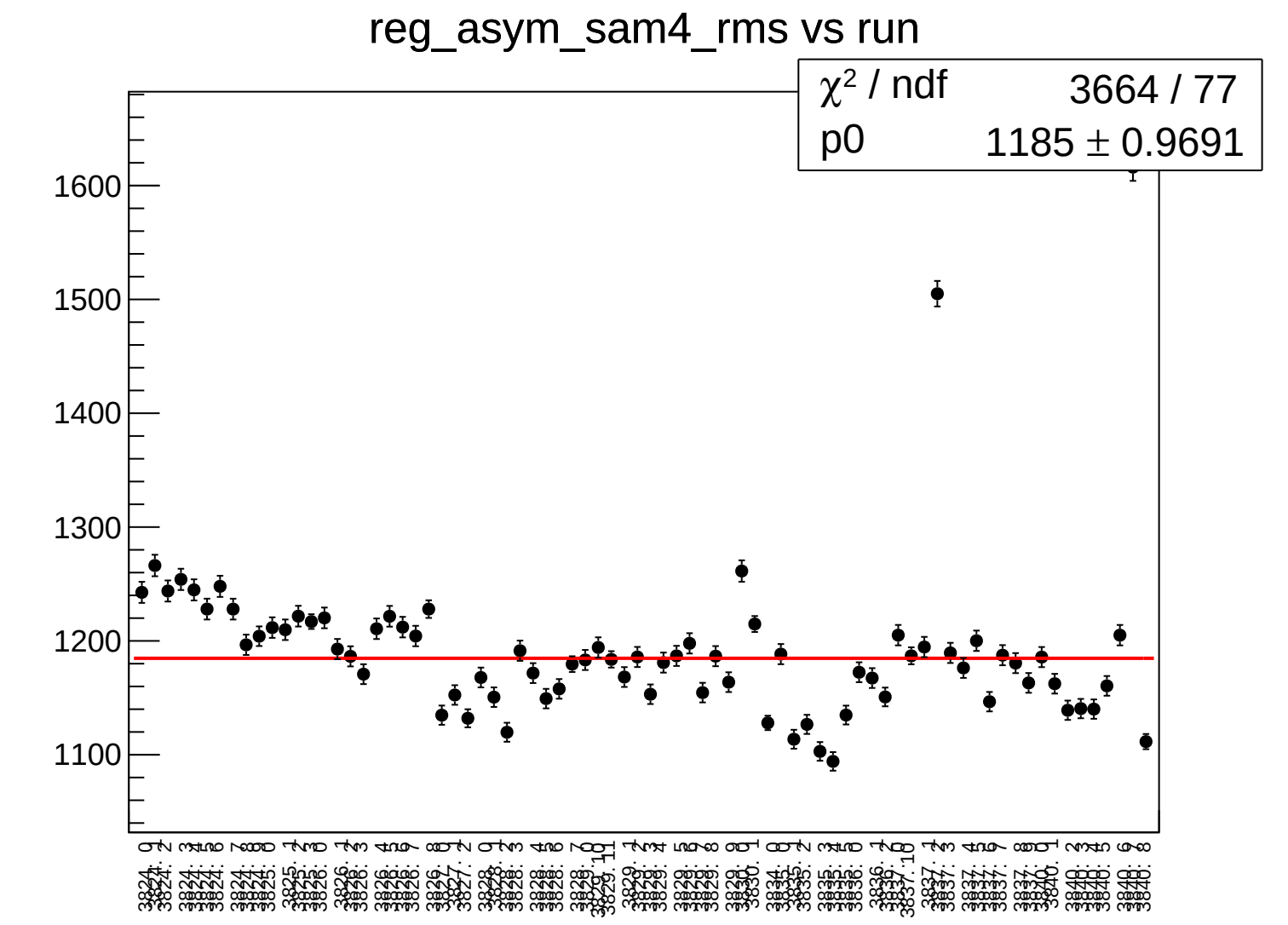

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 70.86 / 77
p0 4949 ± 1.49e+04
400
200
0
−200
−400
−600
pull
Entries 78
Mean −172.7
Std Dev 196.2
2
1
0
−1
−2

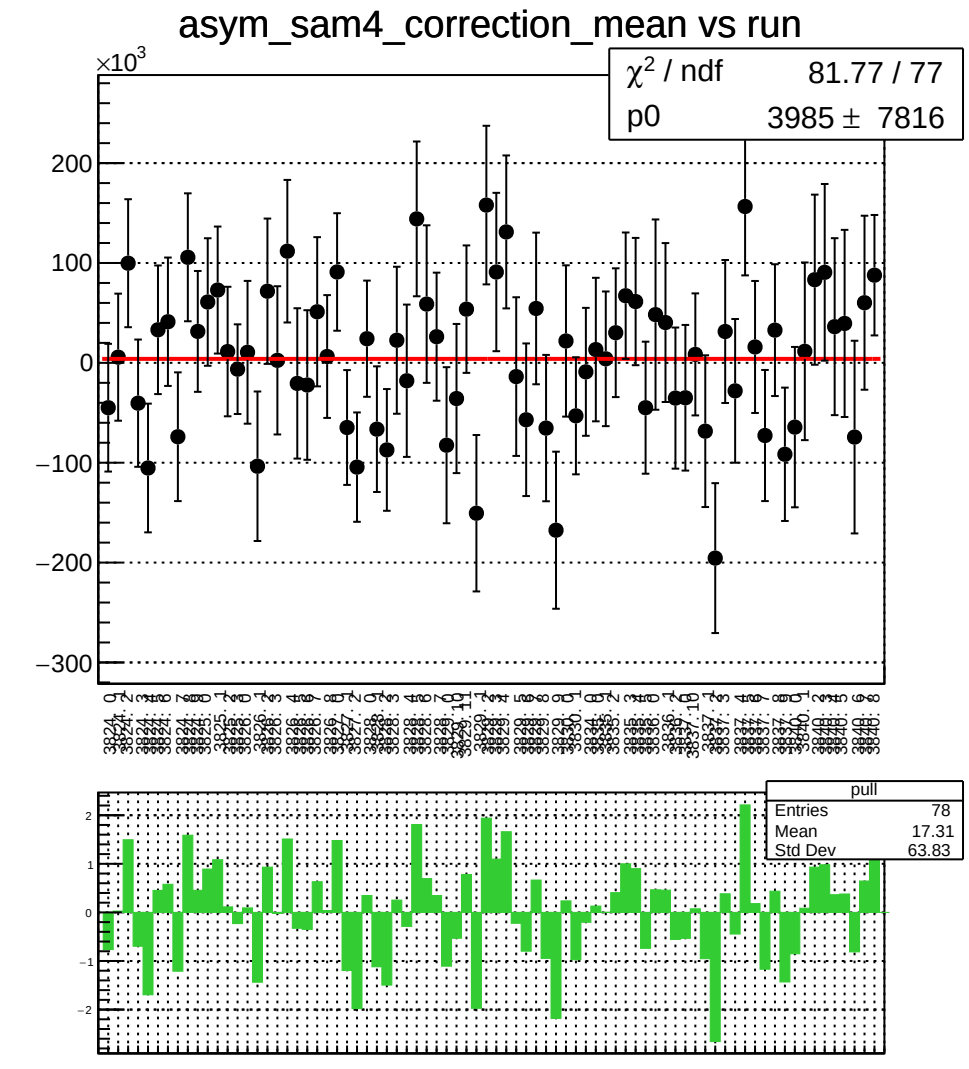

pull1D
Entries 78
Mean 0.005163
Std Dev 0.9531
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

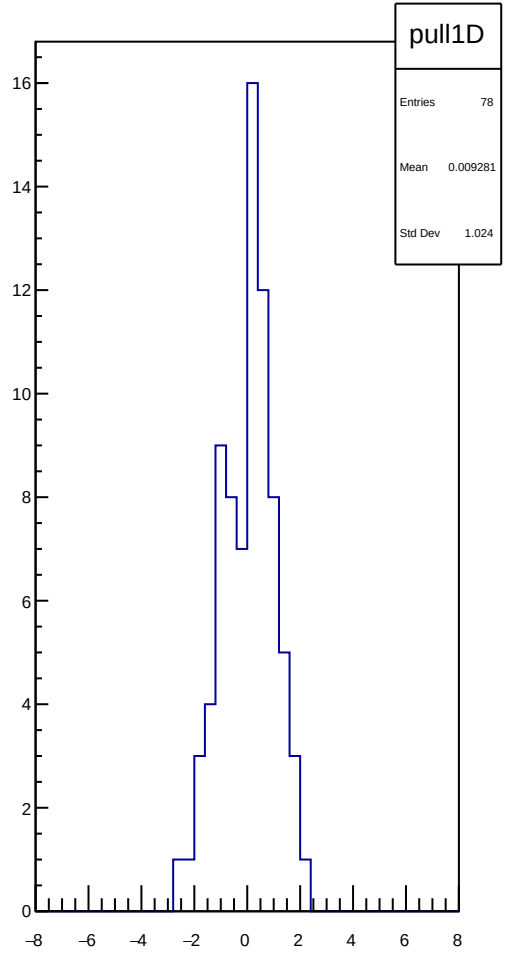

asym_sam3_correction_rms vs run
χ² / ndf 3.345e+04 / 77
p0 1.275e+04 ± 10.54
22000
20000
18000
16000
14000
12000
10000

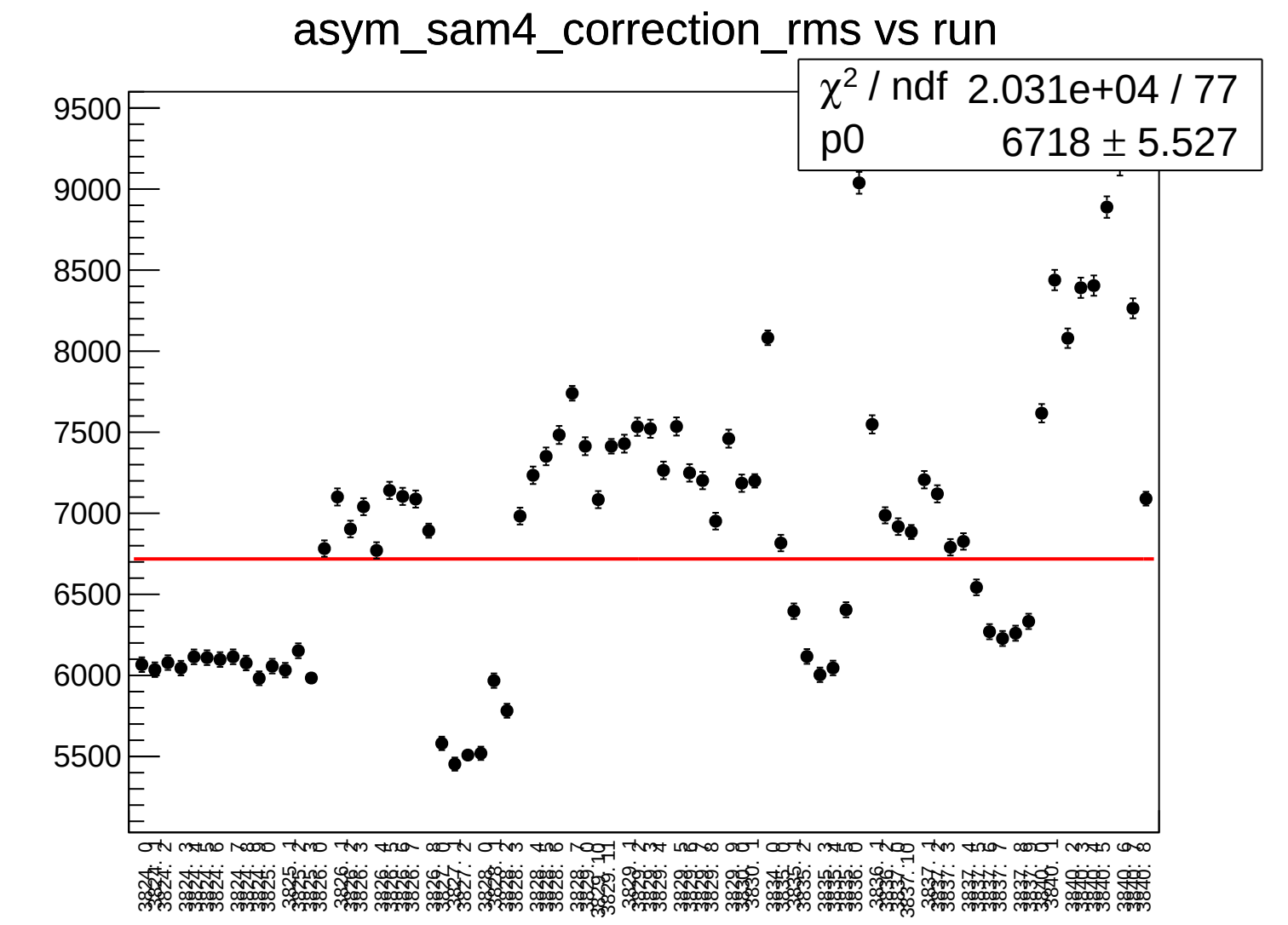

reg_asym_sam4_mean vs run
χ² / ndf 67.1 / 77
p0 −182.5 ± 1371
pull
Entries 78
Mean 92.21
Std Dev 127.6

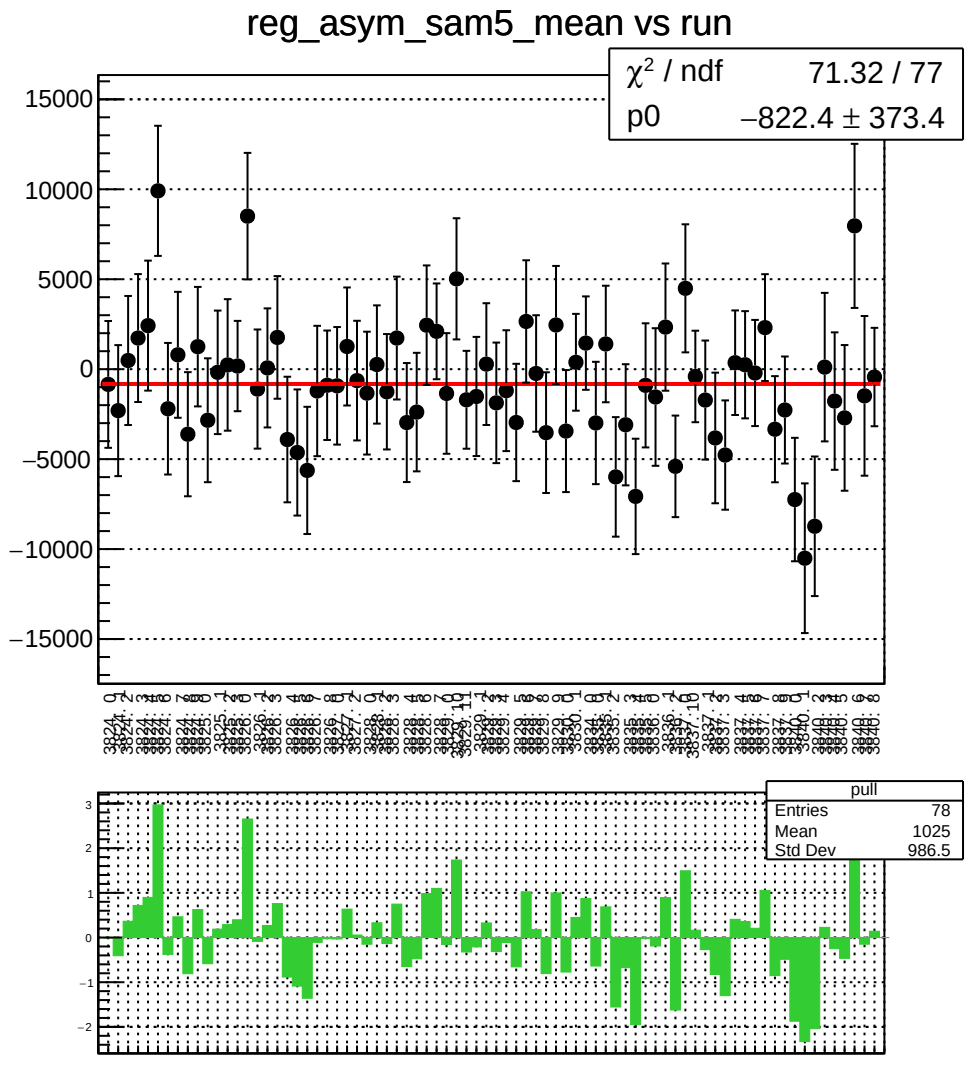

pull1D
Entries 78
Mean −0.003272
Std Dev 0.9275

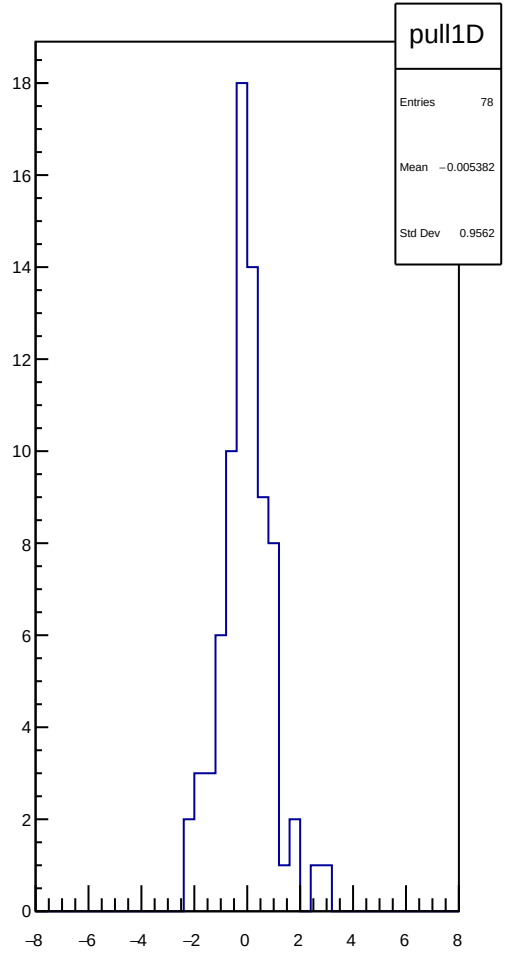

reg_asym_sam4_rms vs run
χ² / ndf 3664 / 77
p0 1185 ± 0.9691
1600
1500
1400
1300
1200
1100

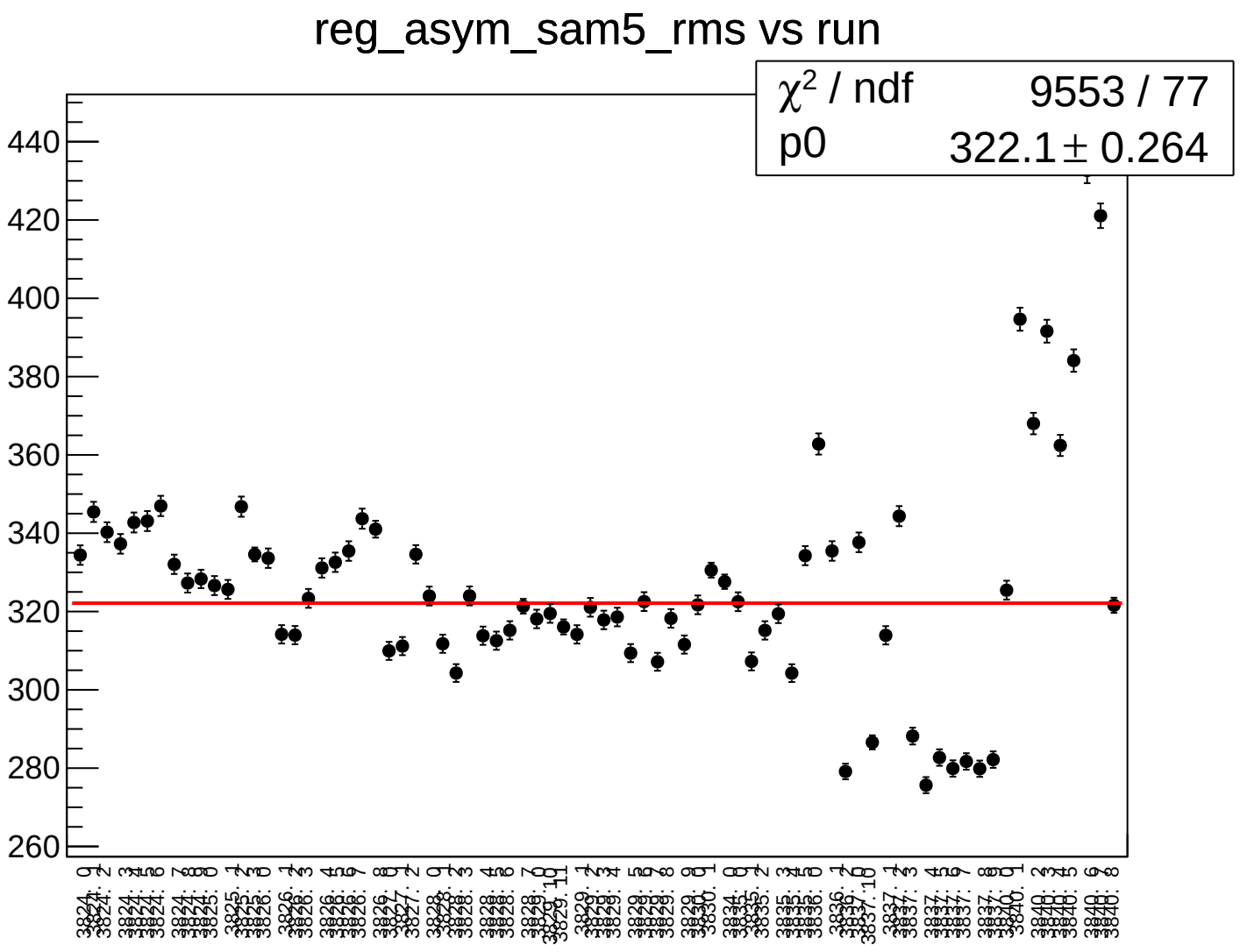

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 81.77 / 77
p0 3985 ± 7816
200
100
0
−100
−200
−300
pull
Entries 78
Mean 17.31
Std Dev 63.83
2
1
0
−1
−2

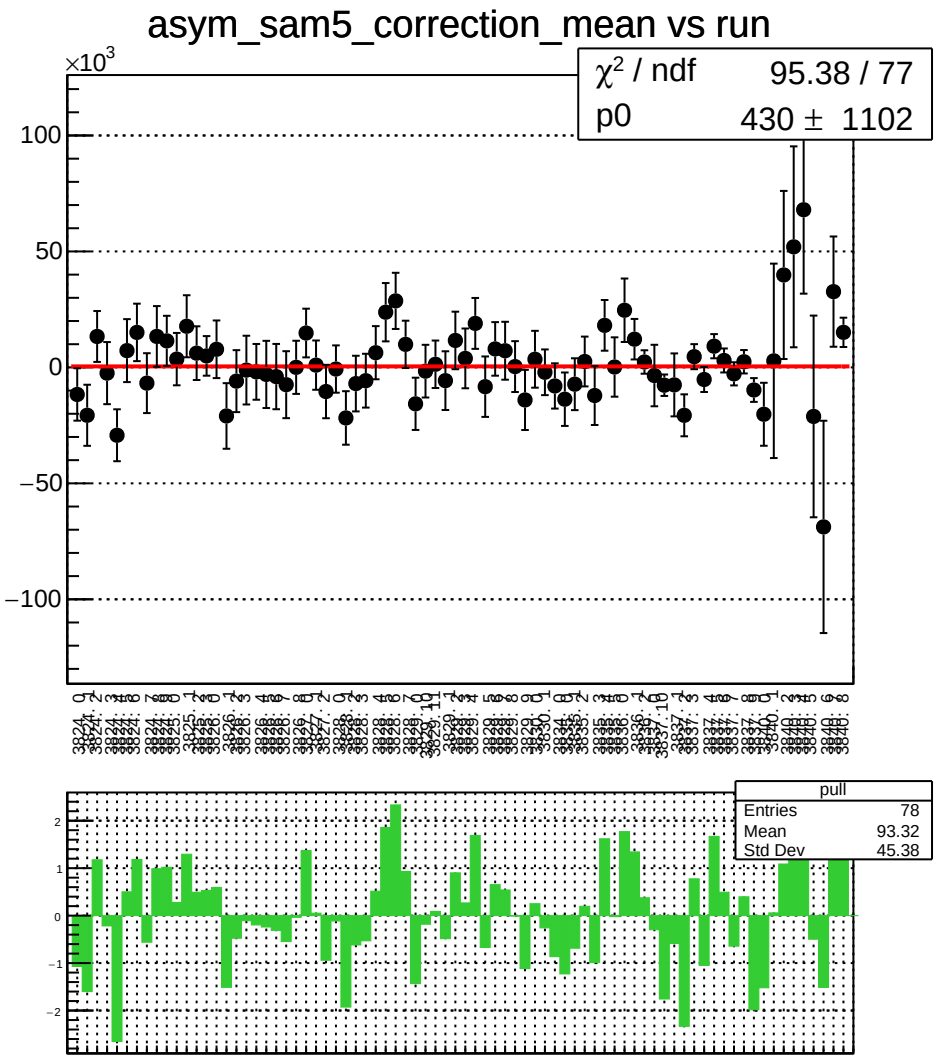

pull1D
Entries 78
Mean 0.009281
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

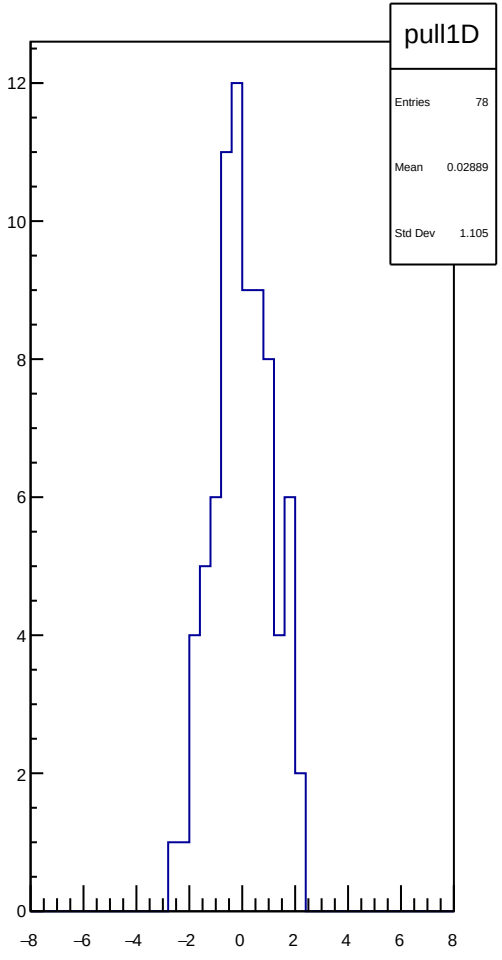

asym_sam4_correction_rms vs run
χ^2 / ndf 2.031e+04 / 77
p0 6718 ± 5.527
9500
9000
8500
8000
7500
7000
6500
6000
5500

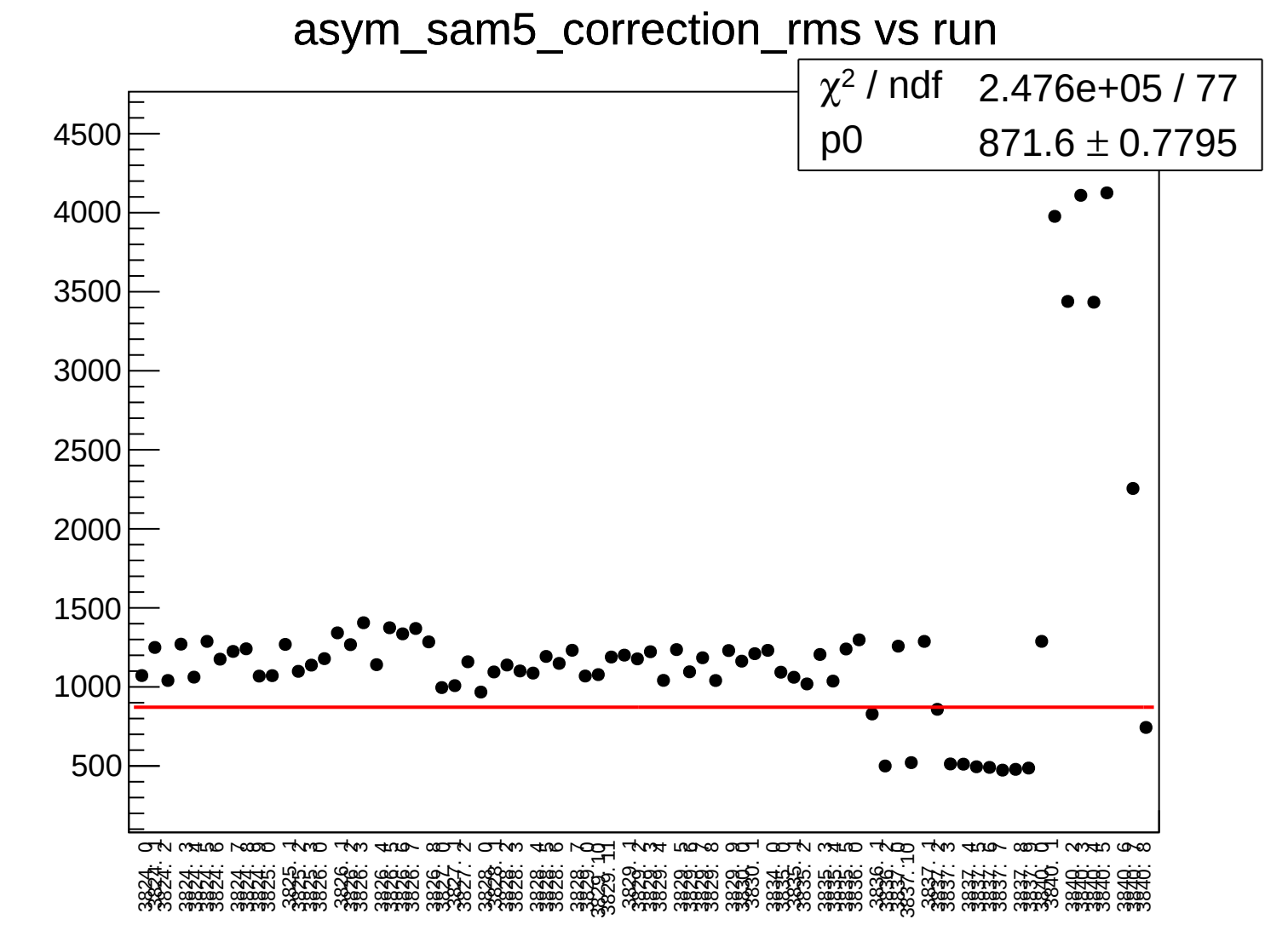

reg_asym_sam5_mean vs run
χ² / ndf 71.32 / 77
p0 −822.4 ± 373.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean 1025
Std Dev 986.5
3
2
1
0
−1
−2

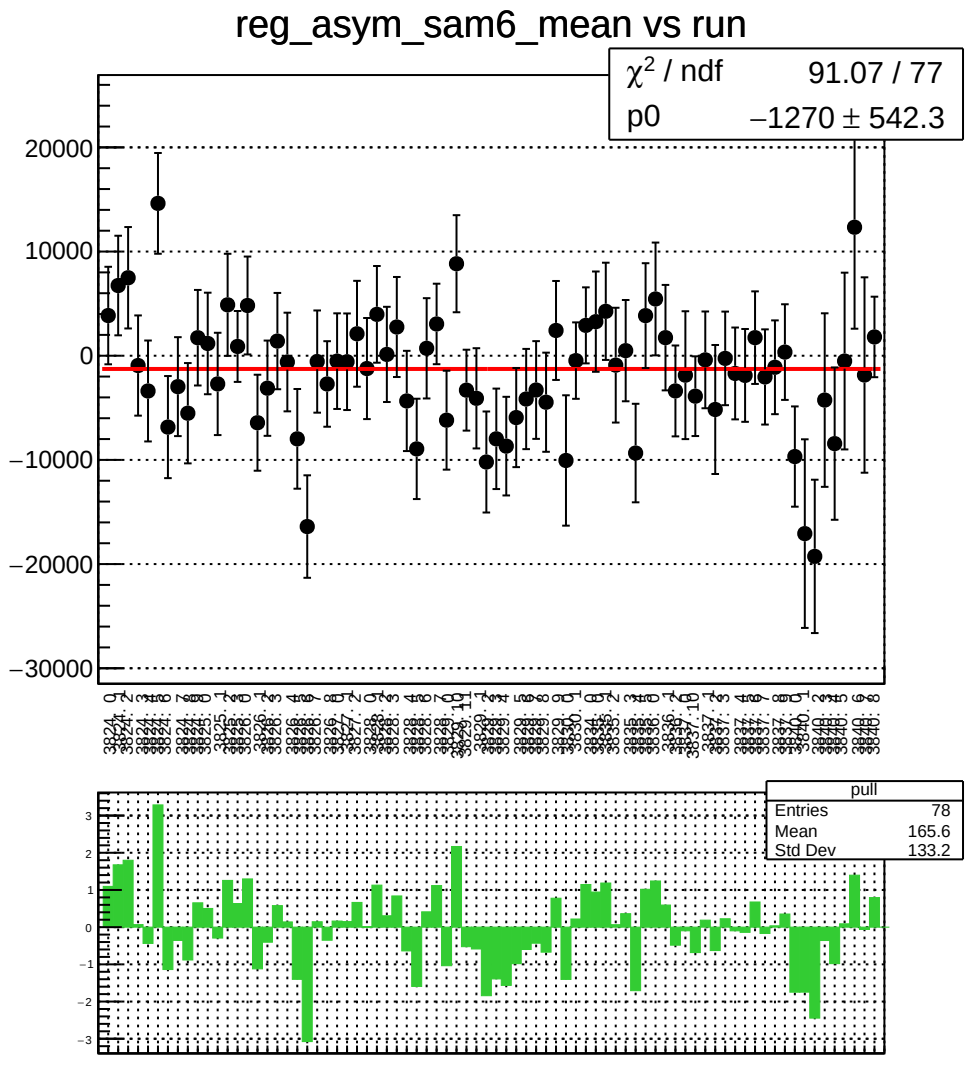

pull1D
Entries 78
Mean −0.005382
Std Dev 0.9562
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

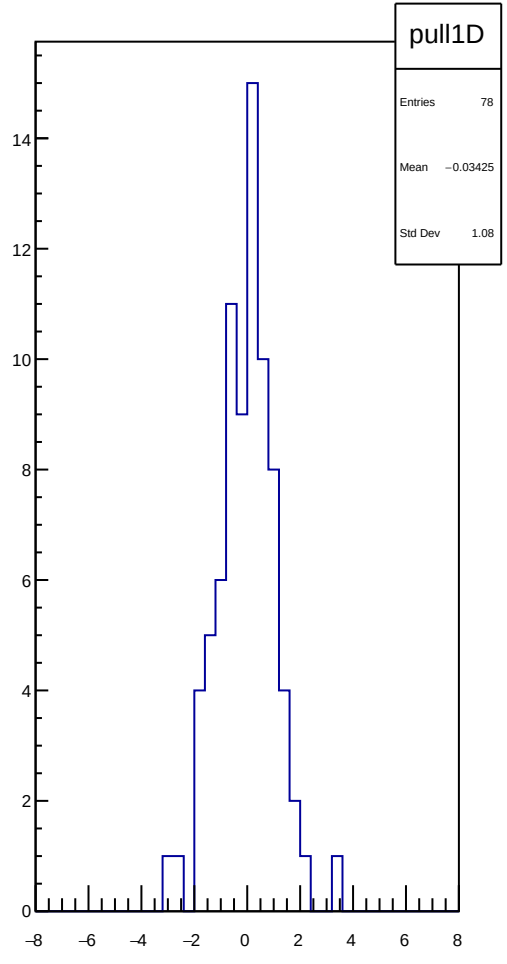

reg_asym_sam5_rms vs run
χ^2 / ndf 9553 / 77
p0 322.1 ± 0.264
440
420
400
380
360
340
320
300
280
260

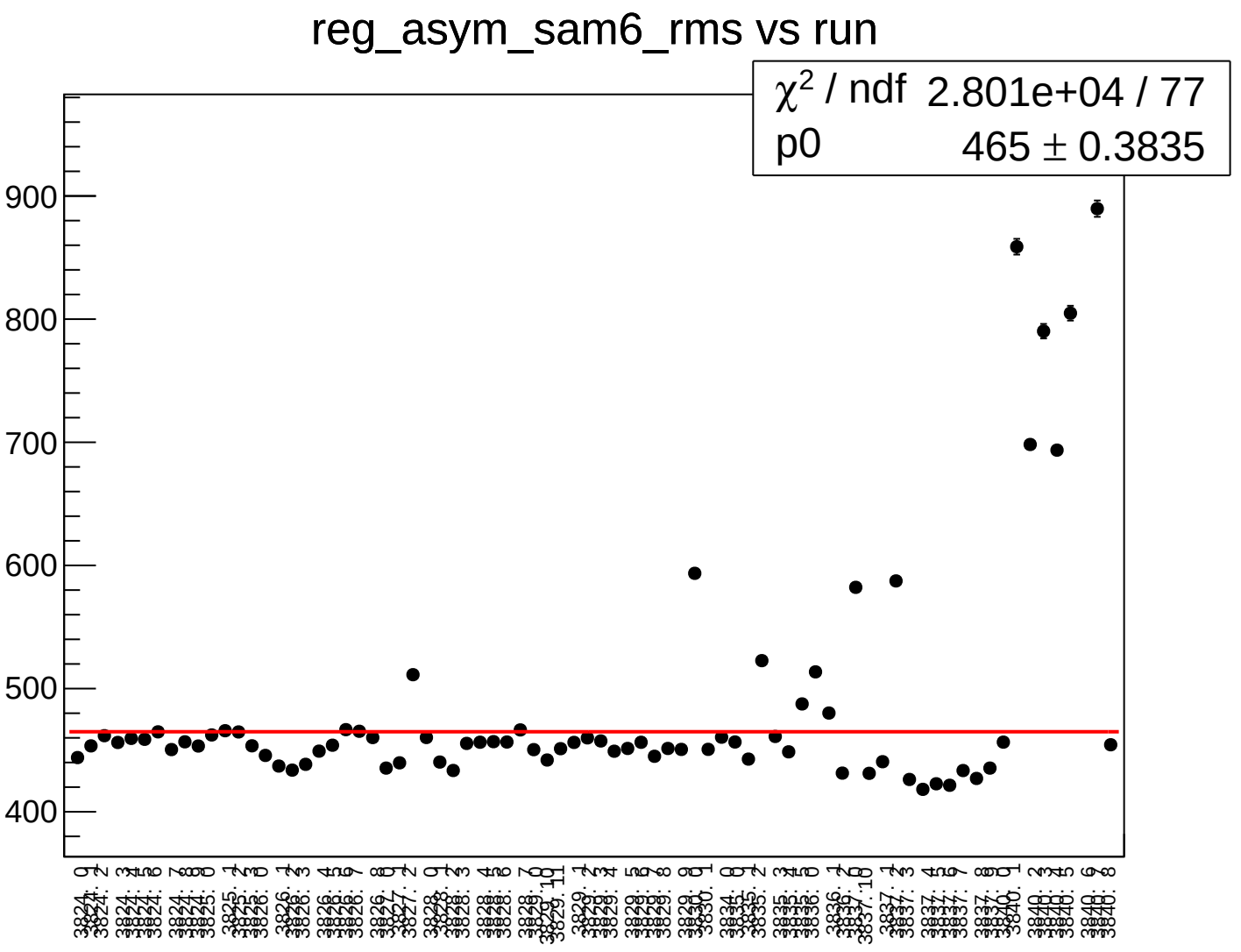

asym_sam5_correction_mean vs run
×10^3
χ² / ndf 95.38 / 77
p0 430 ± 1102
100
50
0
−50
−100
pull
Entries 78
Mean 93.32
Std Dev 45.38
2
1
0
−1
−2

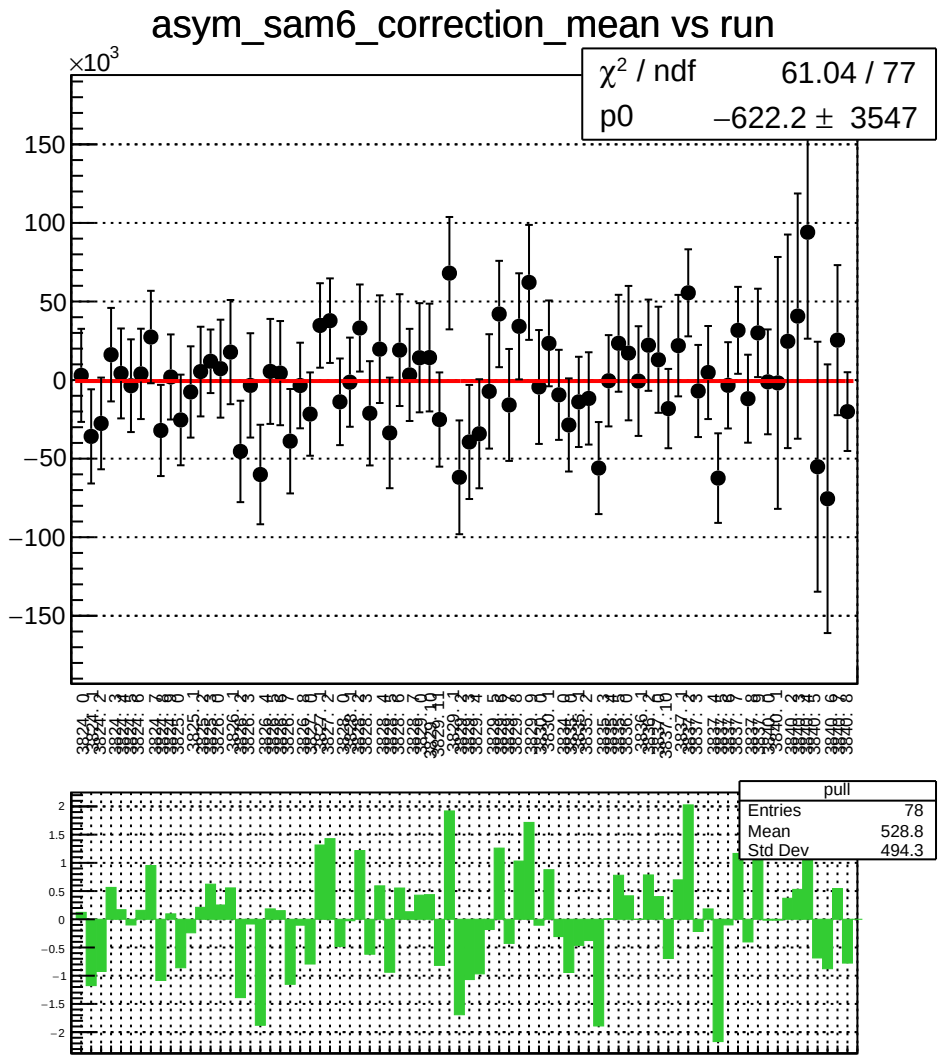

pull1D
Entries 78
Mean 0.02889
Std Dev 1.105
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

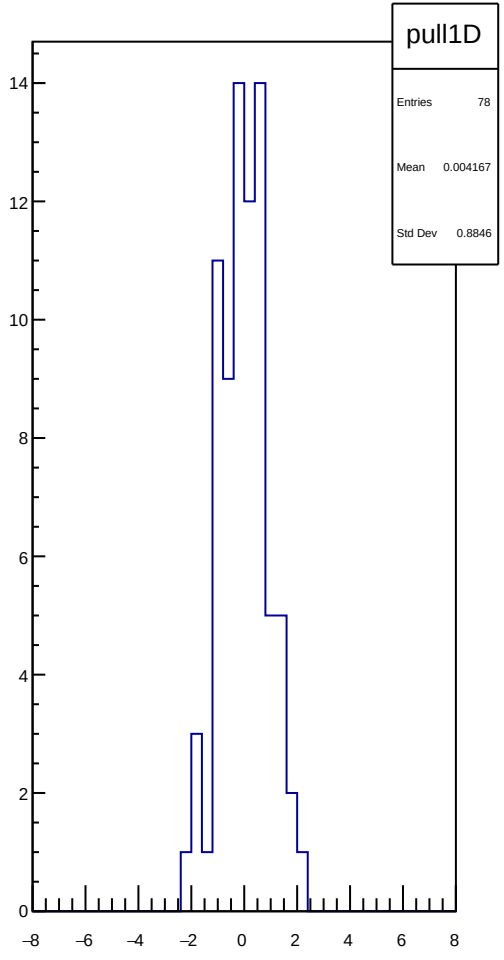

asym_sam5_correction_rms vs run
χ² / ndf 2.476e+05 / 77
p0 871.6 ± 0.7795
4500
4000
3500
3000
2500
2000
1500
1000
500

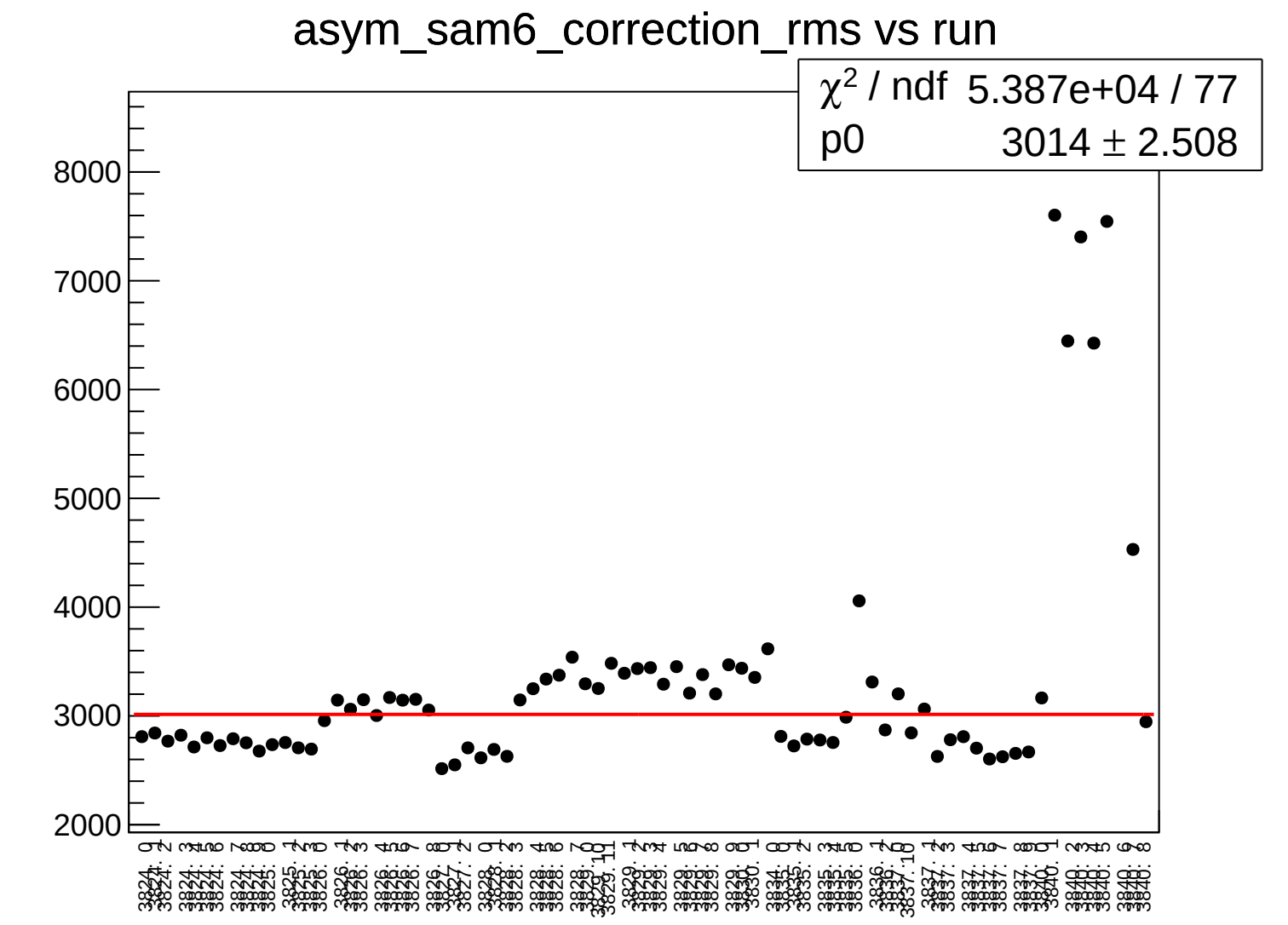

reg_asym_sam6_mean vs run
χ² / ndf 91.07 / 77
p0 −1270 ± 542.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean 165.6
Std Dev 133.2
3
2
1
0
−1
−2
−3

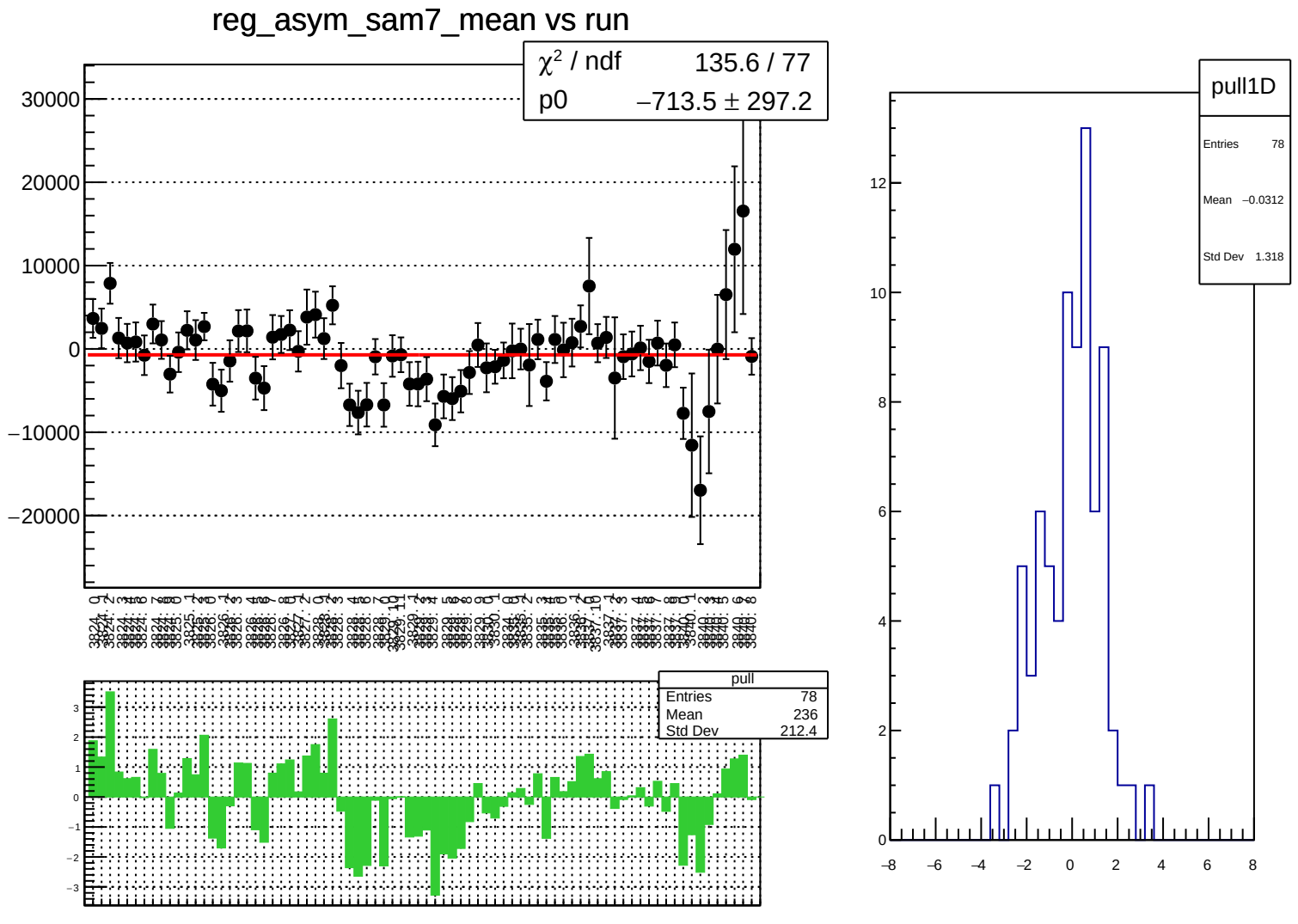

pull1D
Entries 78
Mean −0.03425
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

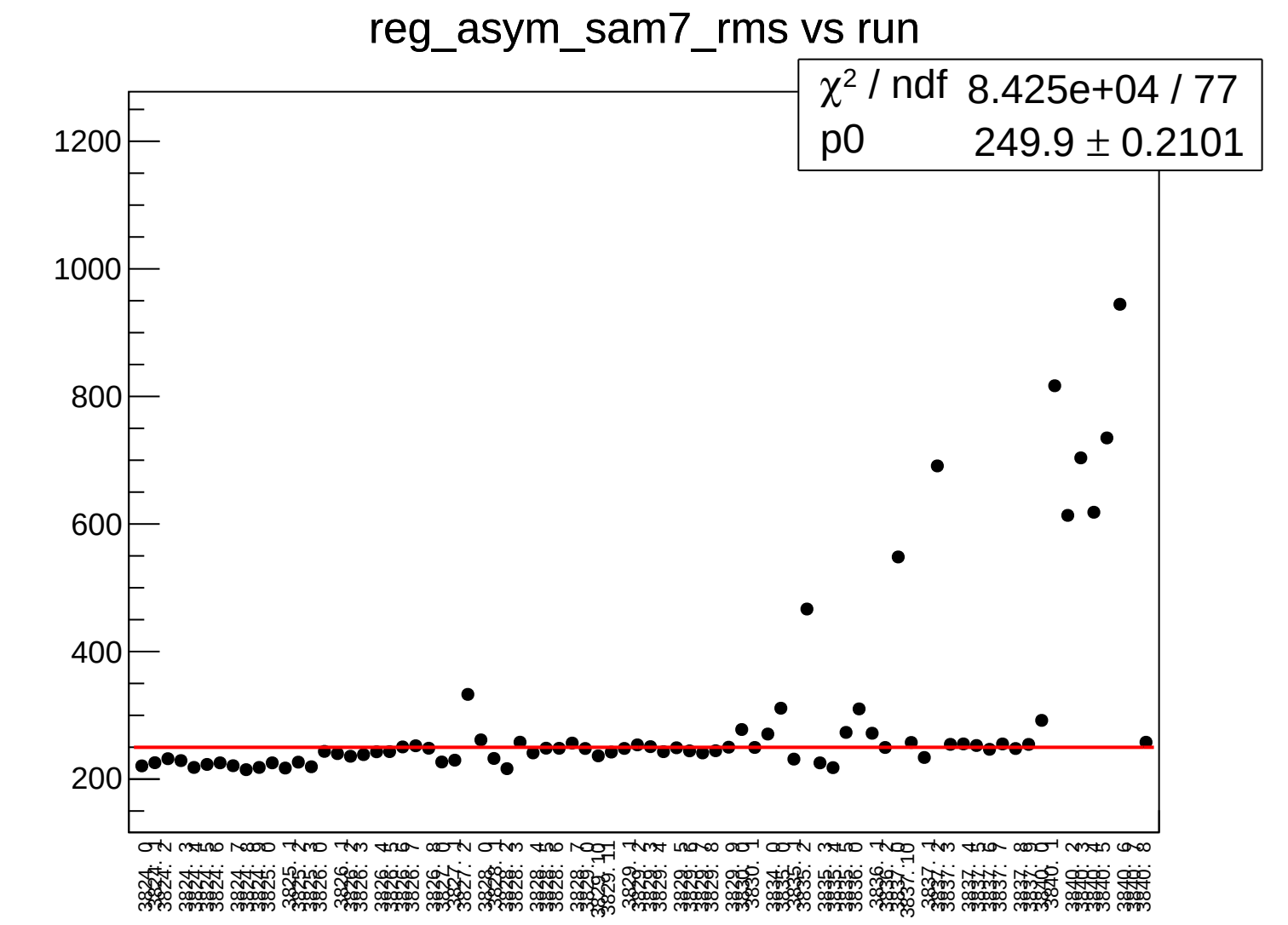

reg_asym_sam6_rms vs run
χ^2 / ndf 2.801e+04 / 77
p0 465 ± 0.3835
900
800
700
600
500
400

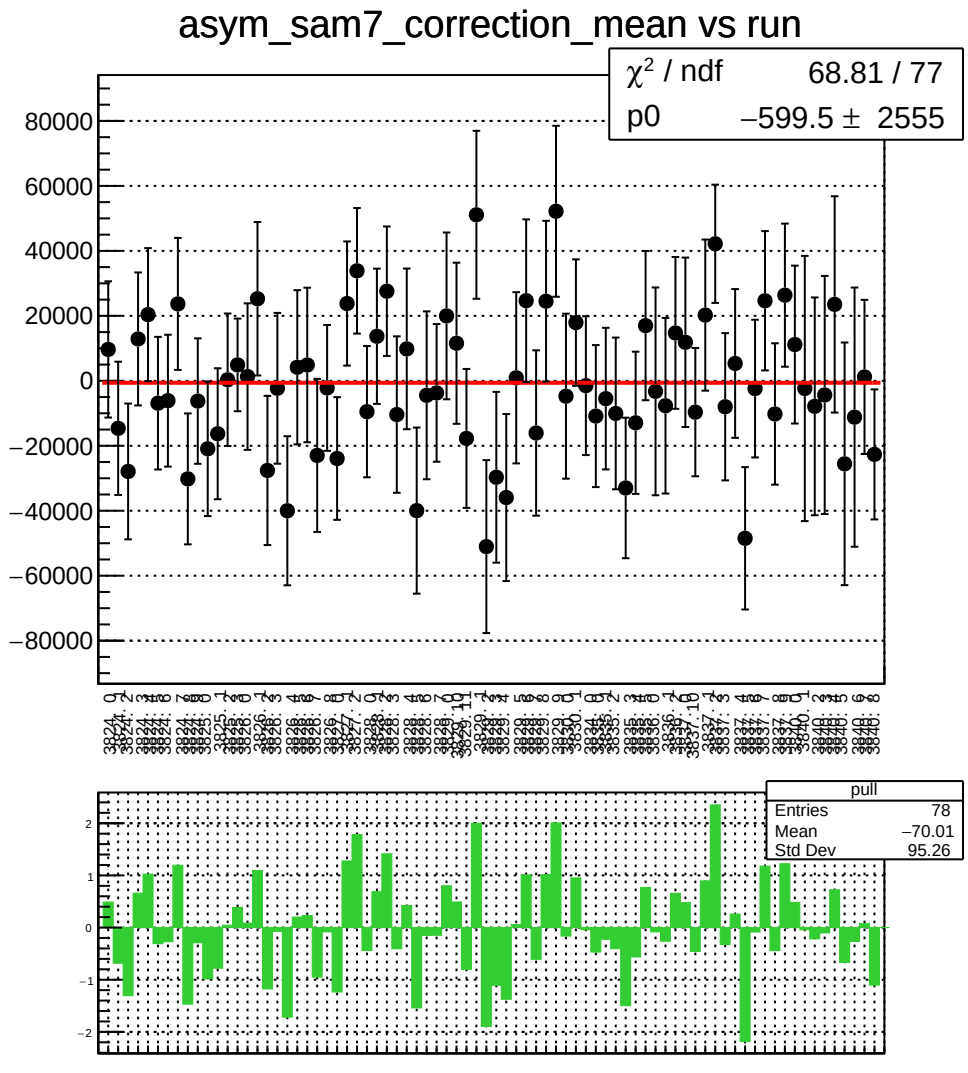

asym_sam6_correction_mean vs run
χ² / ndf 61.04 / 77
p0 −622.2 ± 3547
×10³
150
100
50
0
−50
−100
−150
pull
Entries 78
Mean 528.8
Std Dev 494.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

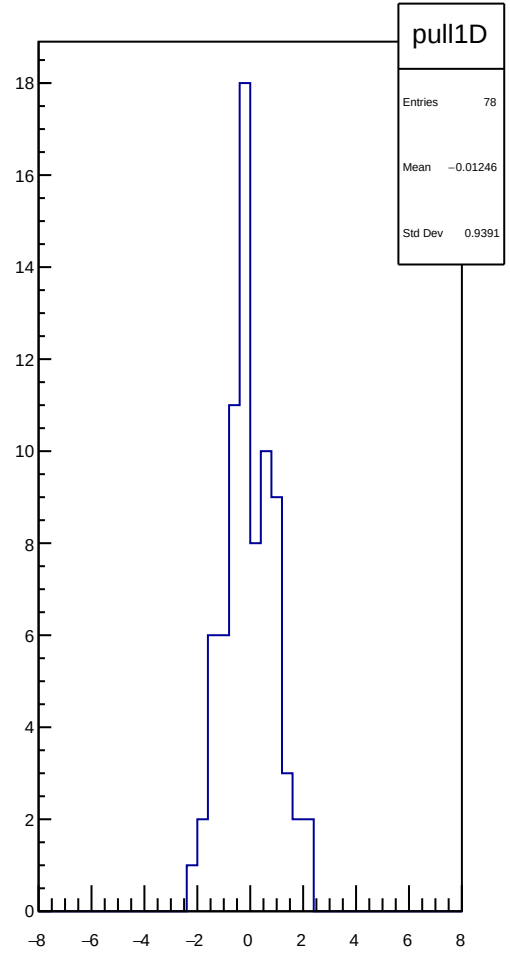

pull1D
Entries 78
Mean 0.004167
Std Dev 0.8846
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

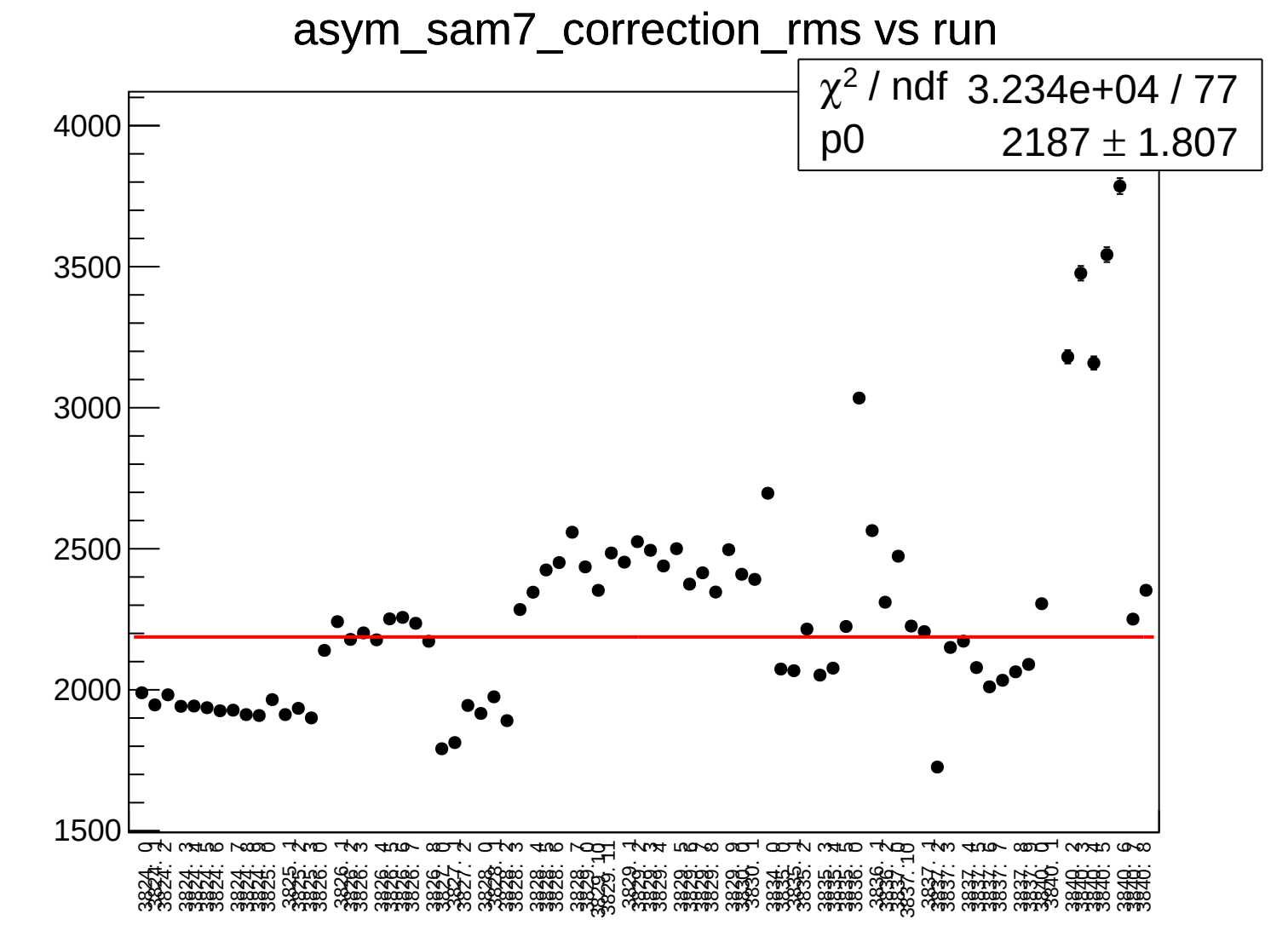

asym_sam6_correction_rms vs run
χ^2 / ndf 5.387e+04 / 77
p0 3014 ± 2.508
8000
7000
6000
5000
4000
3000
2000

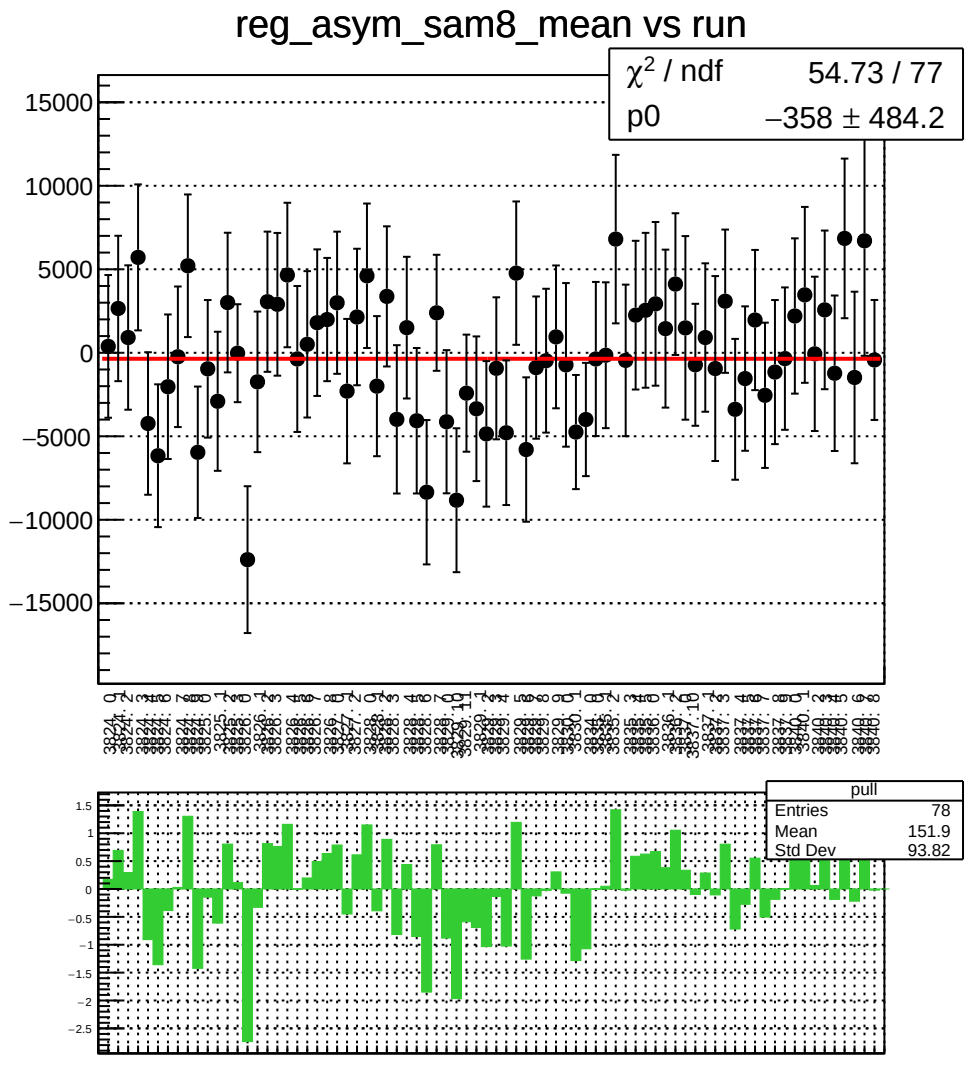

reg_asym_sam7_mean vs run
χ² / ndf 135.6 / 77
p0 −713.5 ± 297.2
30000
20000
10000
0
−10000
−20000
pull
Entries 78
Mean 236
Std Dev 212.4
3
2
1
0
−1
−2
−3
pull1D
Entries 78
Mean −0.0312
Std Dev 1.318
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

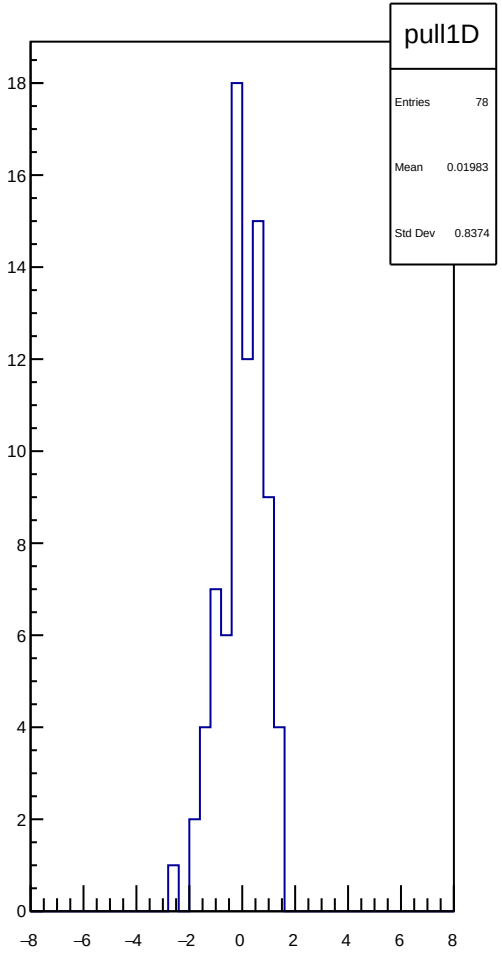

reg_asym_sam7_rms vs run
χ² / ndf 8.425e+04 / 77
p0 249.9 ± 0.2101
1200
1000
800
600
400
200

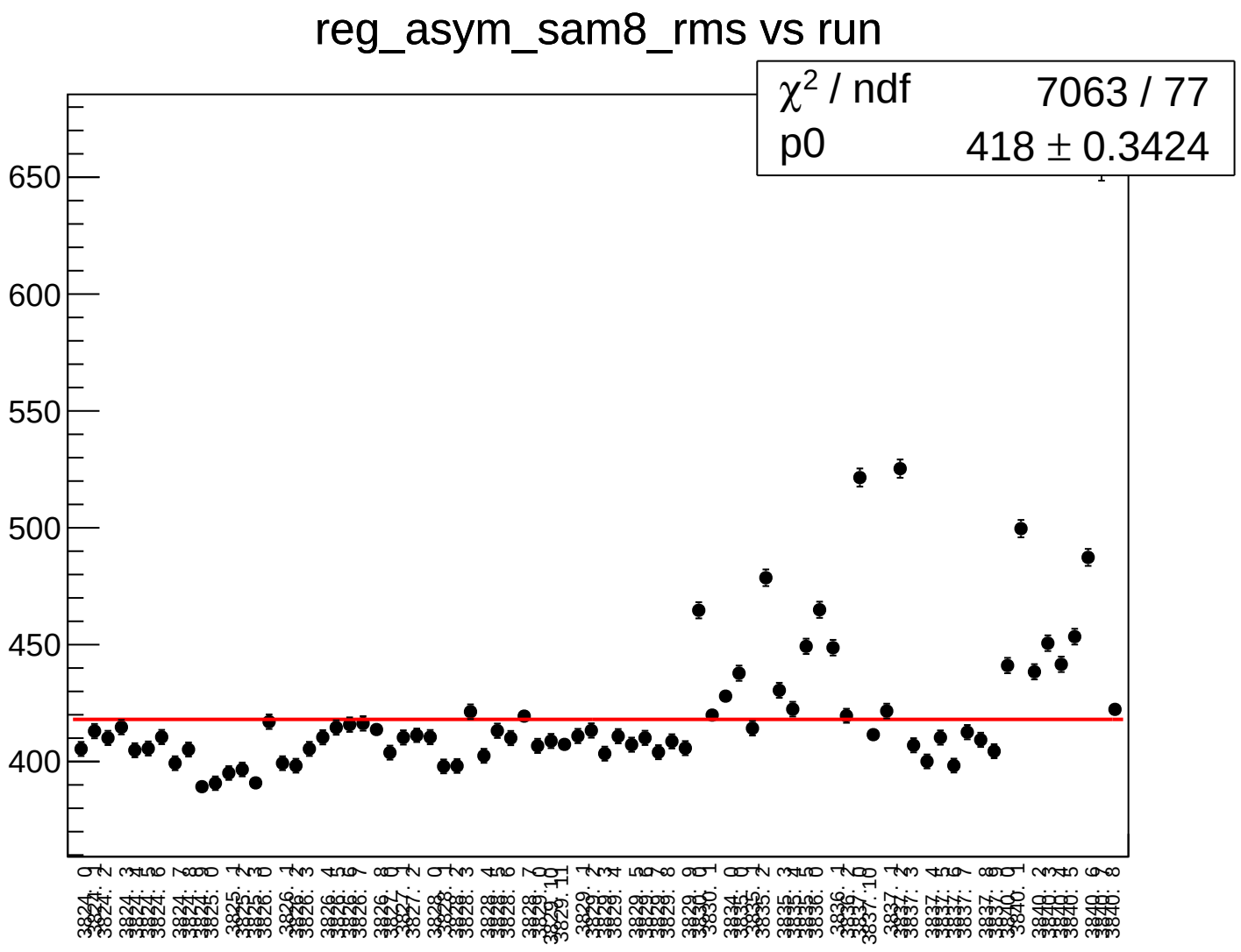

asym_sam7_correction_mean vs run
χ² / ndf 68.81 / 77
p0 −599.5 ± 2555
pull
Entries 78
Mean −70.01
Std Dev 95.26

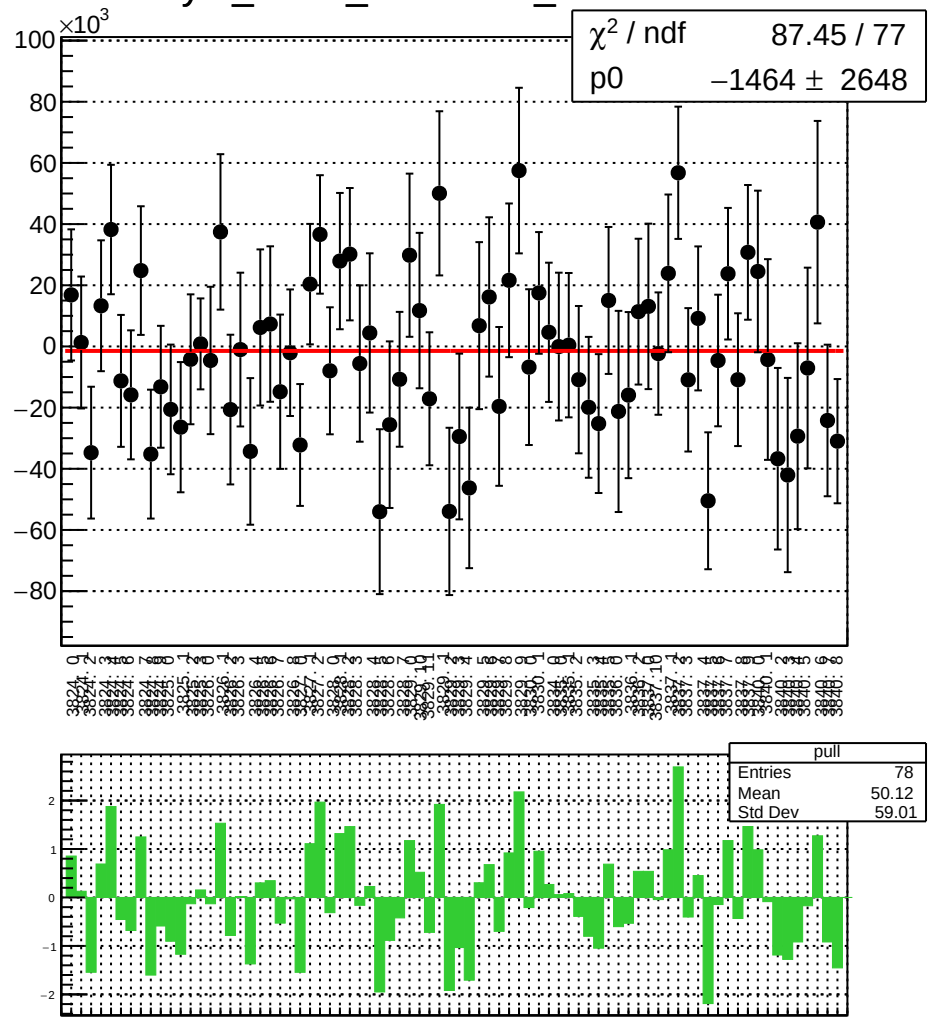

pull1D
Entries 78
Mean −0.01246
Std Dev 0.9391

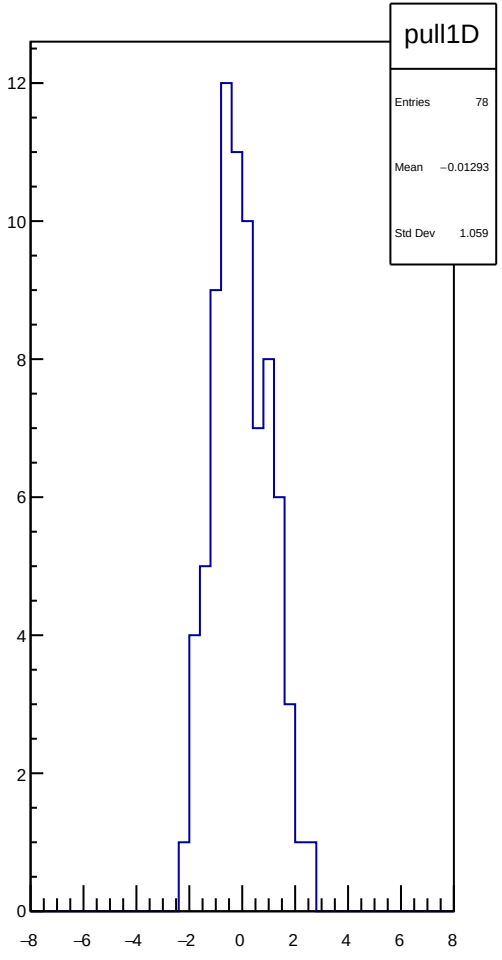

asym_sam7_correction_rms vs run
χ² / ndf 3.234e+04 / 77
p0 2187 ± 1.807
4000
3500
3000
2500
2000
1500

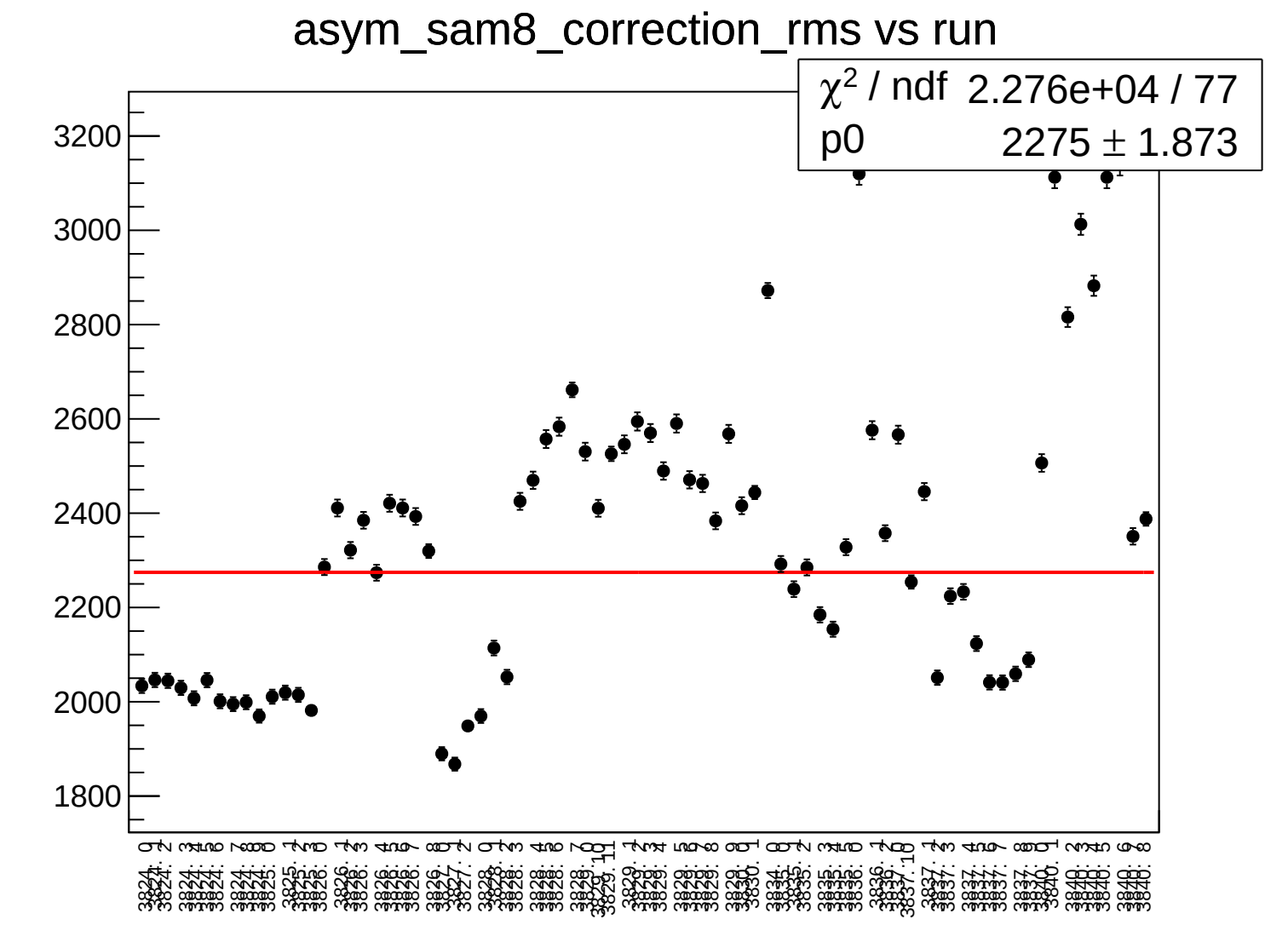

reg_asym_sam8_mean vs run
χ² / ndf 54.73 / 77
p0 −358 ± 484.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 78
Mean 151.9
Std Dev 93.82
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

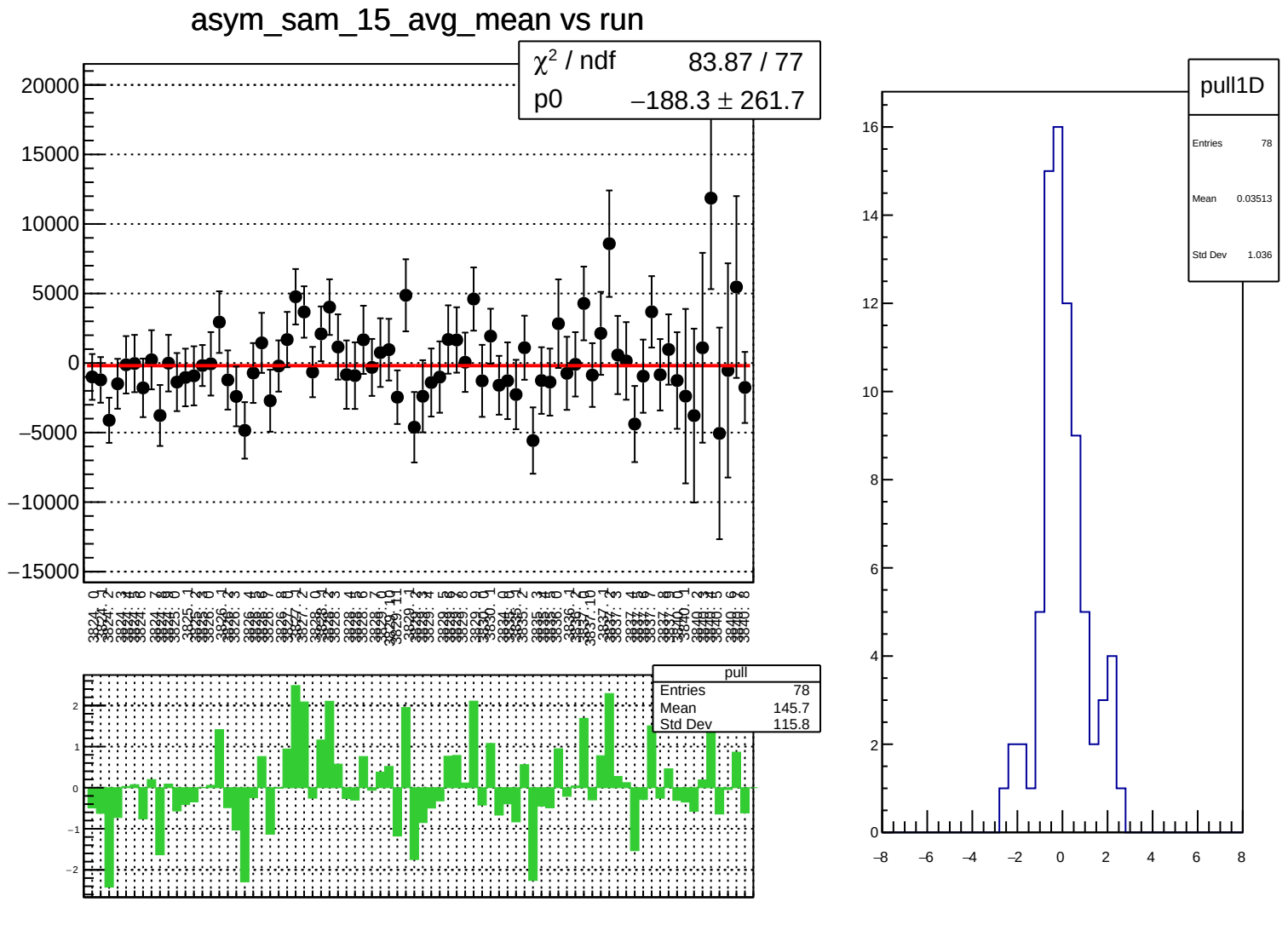

pull1D
Entries 78
Mean 0.01983
Std Dev 0.8374
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

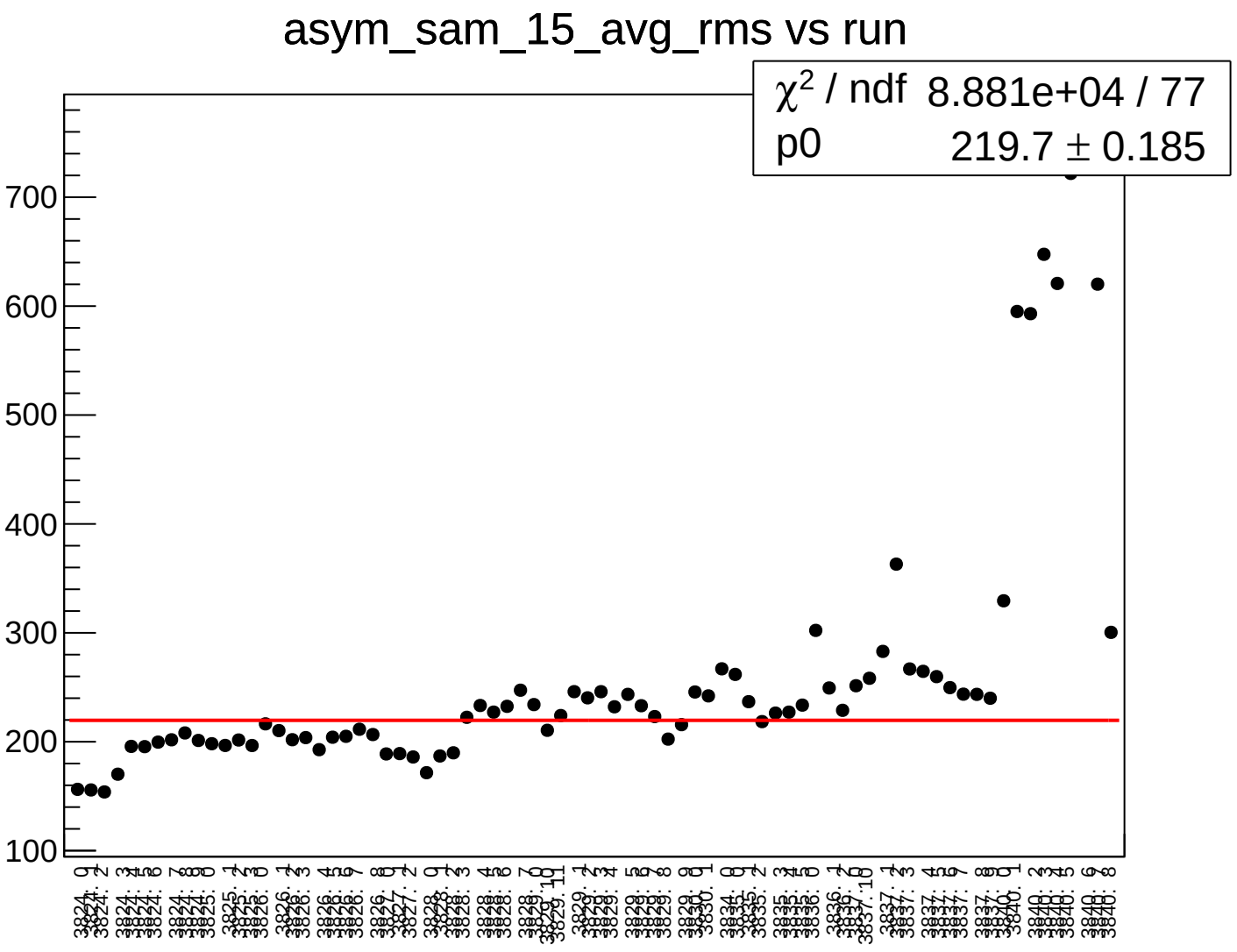

reg_asym_sam8_rms vs run
χ² / ndf 7063 / 77
p0 418 ± 0.3424
650
600
550
500
450
400

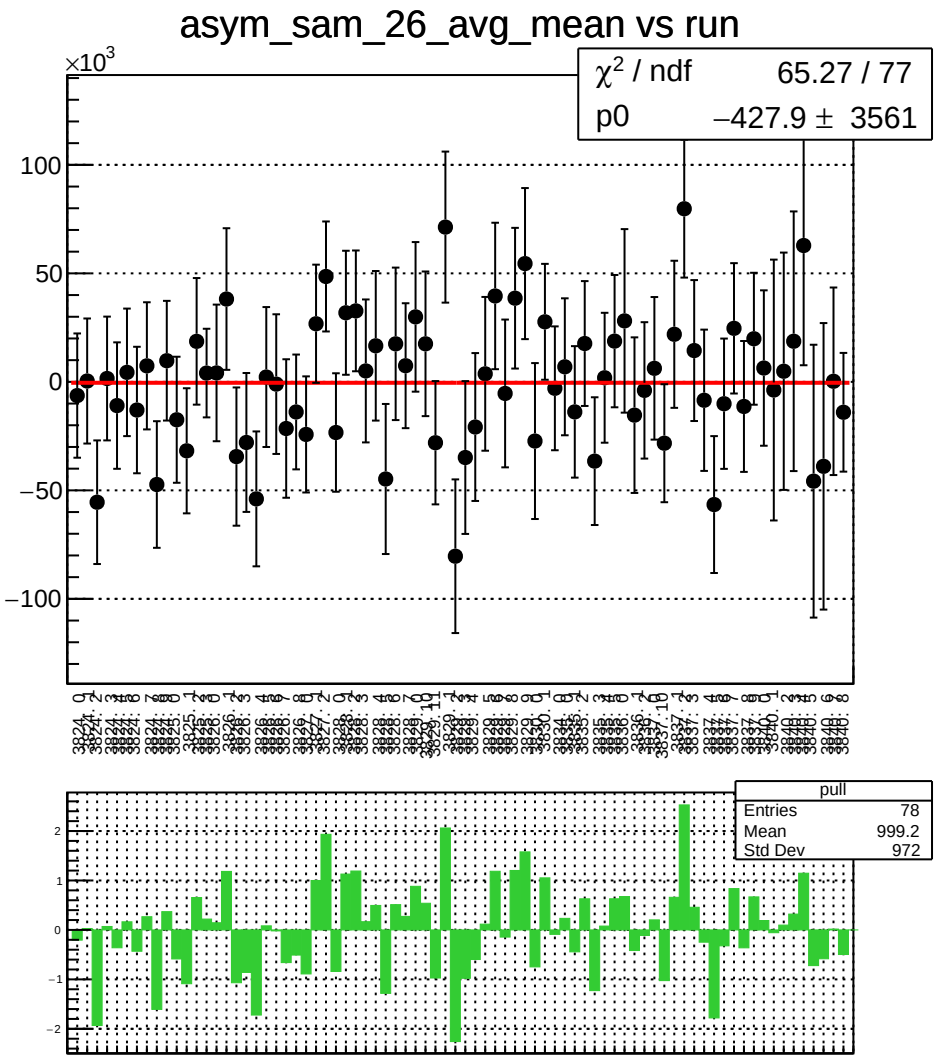

asym_sam8_correction_mean vs run
χ² / ndf 87.45 / 77
p0 −1464 ± 2648
×10³
pull
Entries 78
Mean 50.12
Std Dev 59.01

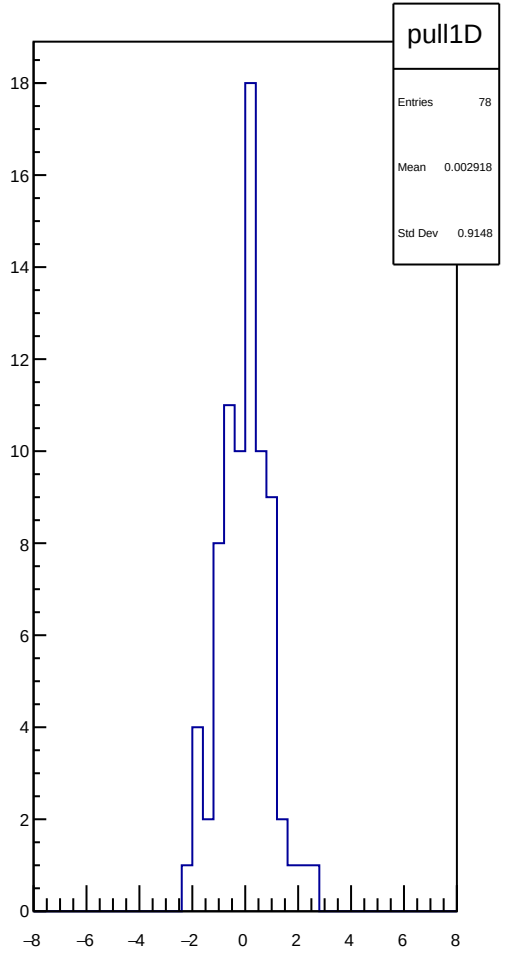

pull1D
Entries 78
Mean −0.01293
Std Dev 1.059

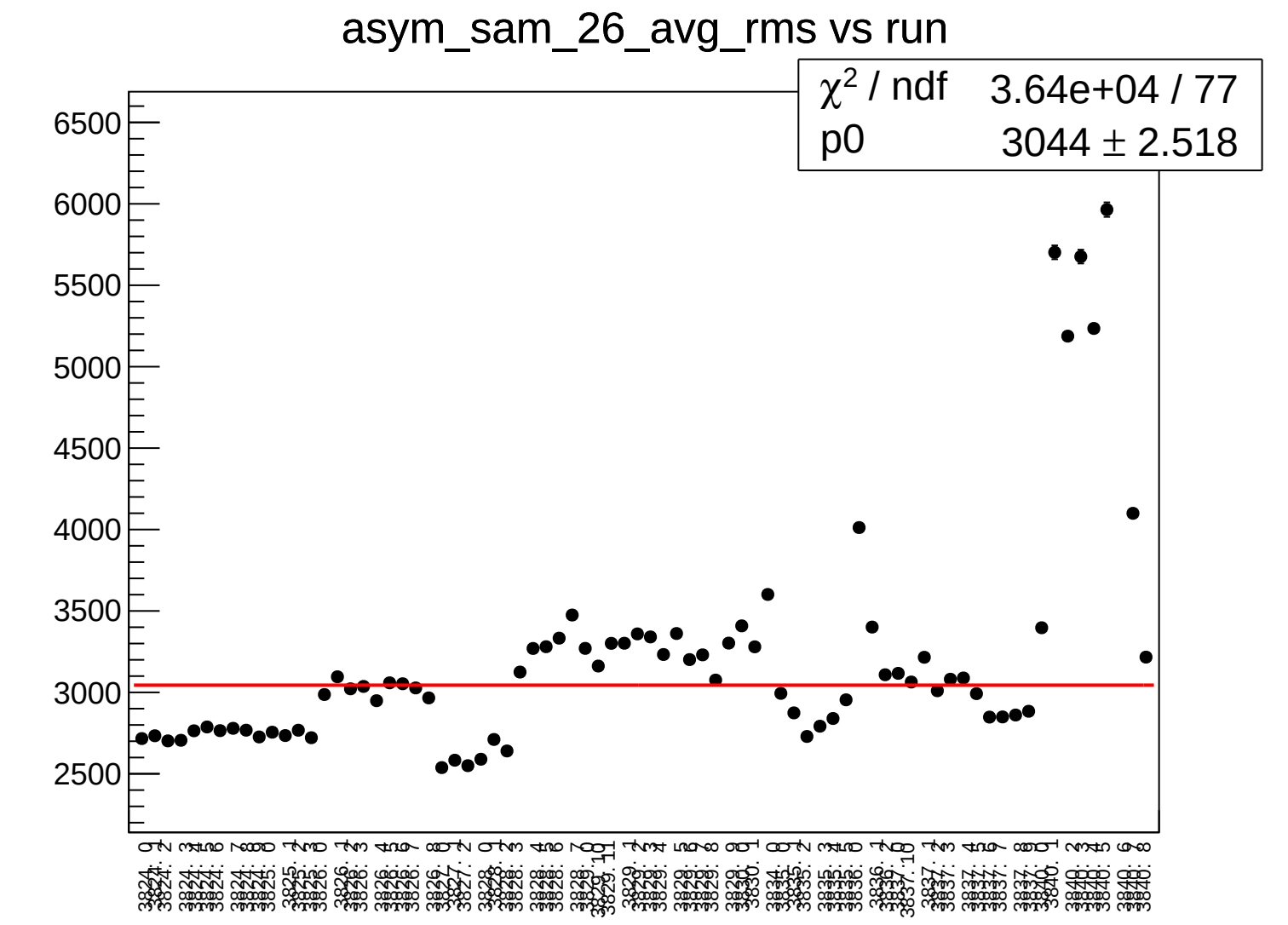

asym_sam8_correction_rms vs run
χ² / ndf 2.276e+04 / 77
p0 2275 ± 1.873
3200
3000
2800
2600
2400
2200
2000
1800

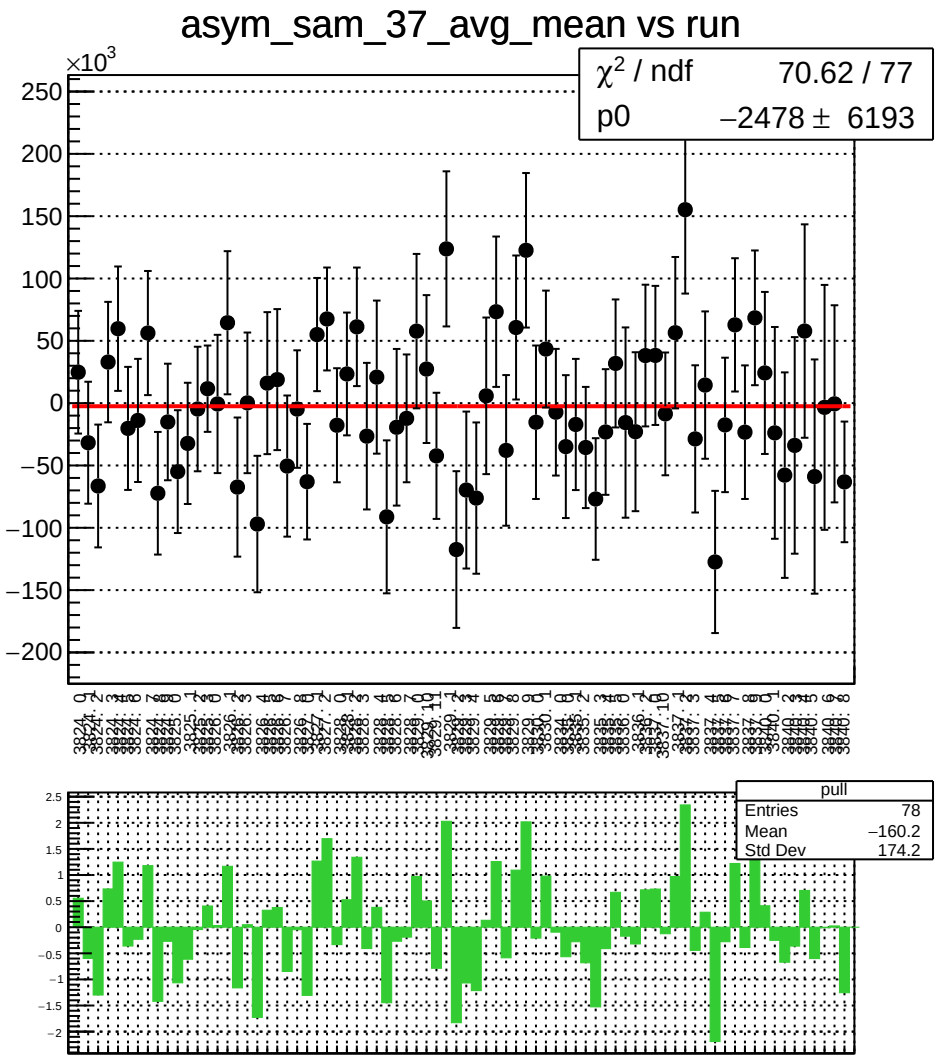

asym_sam_15_avg_mean vs run
χ² / ndf 83.87 / 77
p0 −188.3 ± 261.7
pull
Entries 78
Mean 145.7
Std Dev 115.8
pull1D
Entries 78
Mean 0.03513
Std Dev 1.036

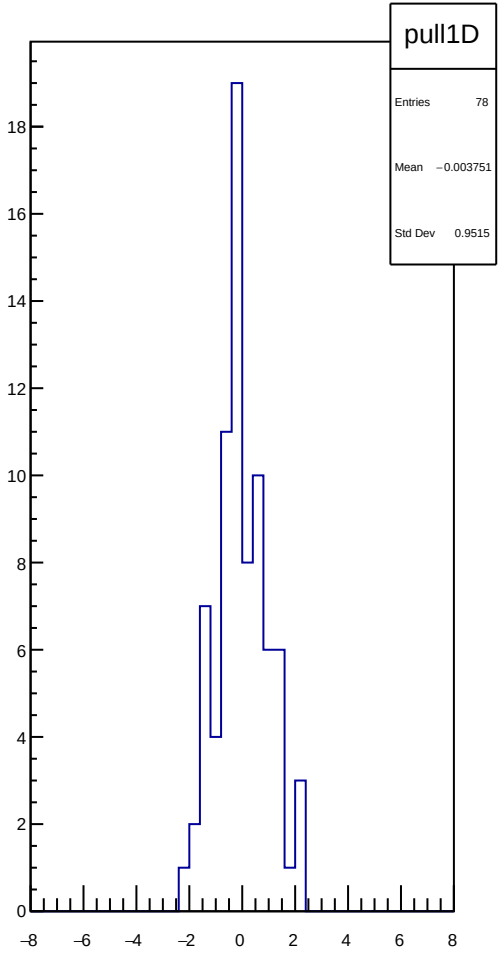

asym_sam_15_avg_rms vs run
χ² / ndf 8.881e+04 / 77
p0 219.7 ± 0.185
700
600
500
400
300
200
100

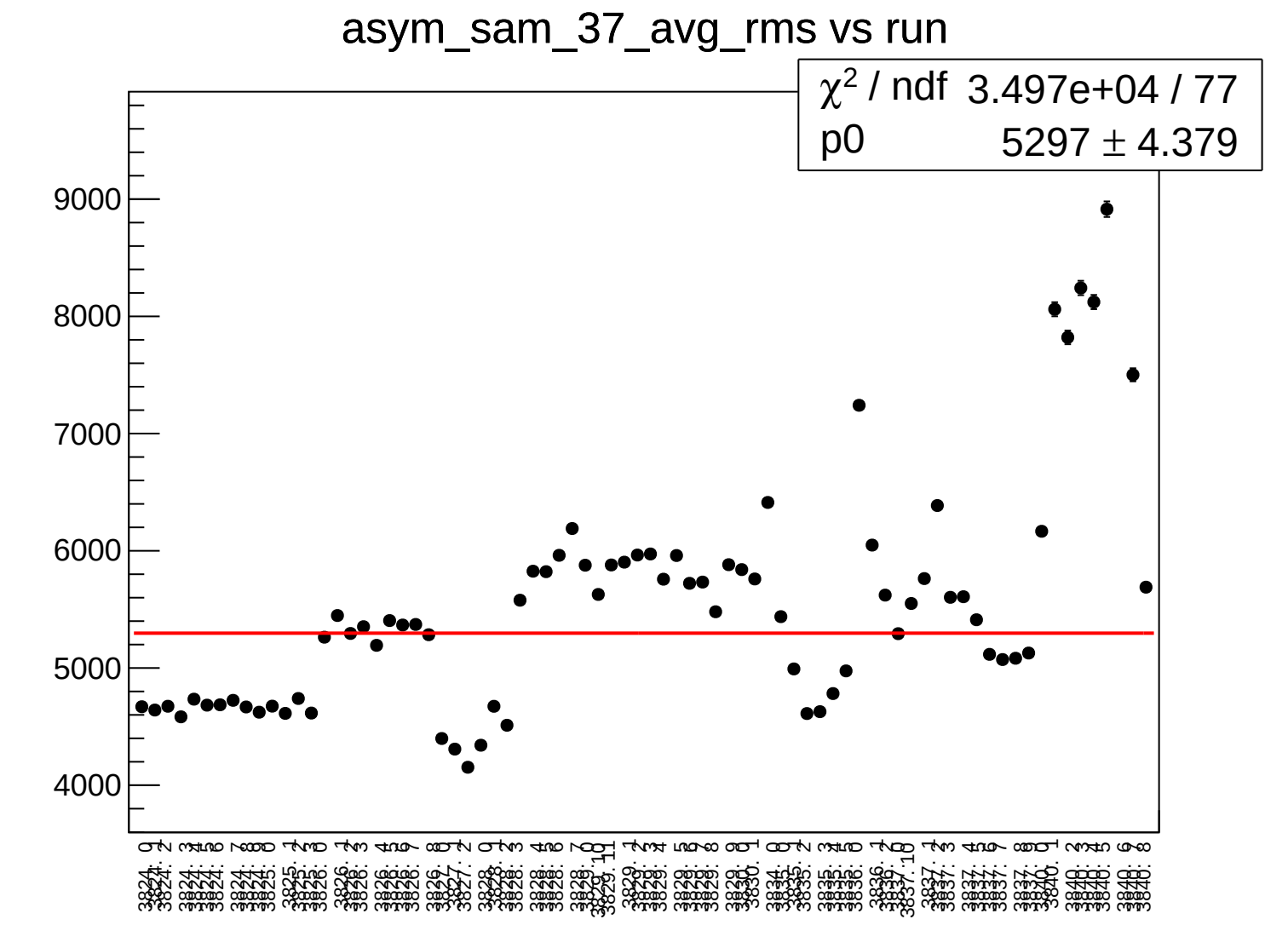

asym_sam_26_avg_mean vs run
×10^3
χ² / ndf 65.27 / 77
p0 −427.9 ± 3561
100
50
0
−50
−100
pull
Entries 78
Mean 999.2
Std Dev 972
2
1
0
−1
−2

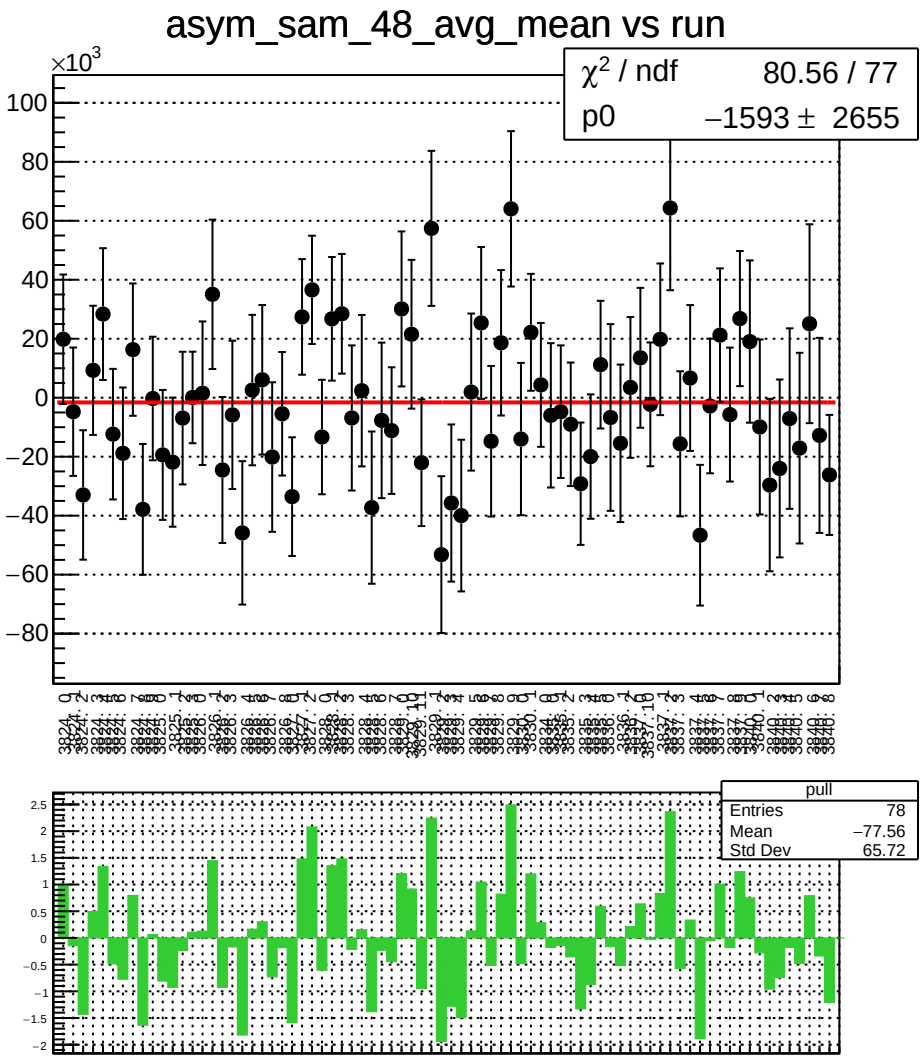

pull1D
Entries 78
Mean 0.002918
Std Dev 0.9148
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

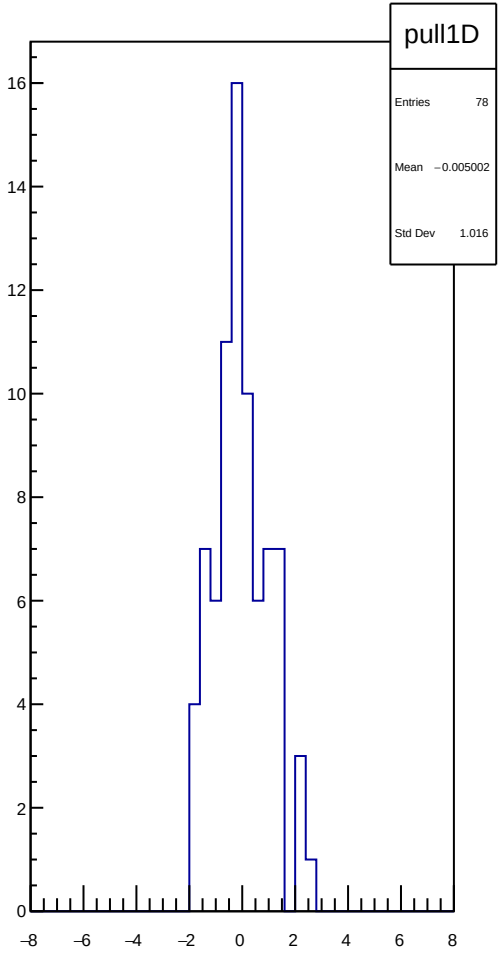

asym_sam_26_avg_rms vs run
χ² / ndf 3.64e+04 / 77
p0 3044 ± 2.518
6500
6000
5500
5000
4500
4000
3500
3000
2500

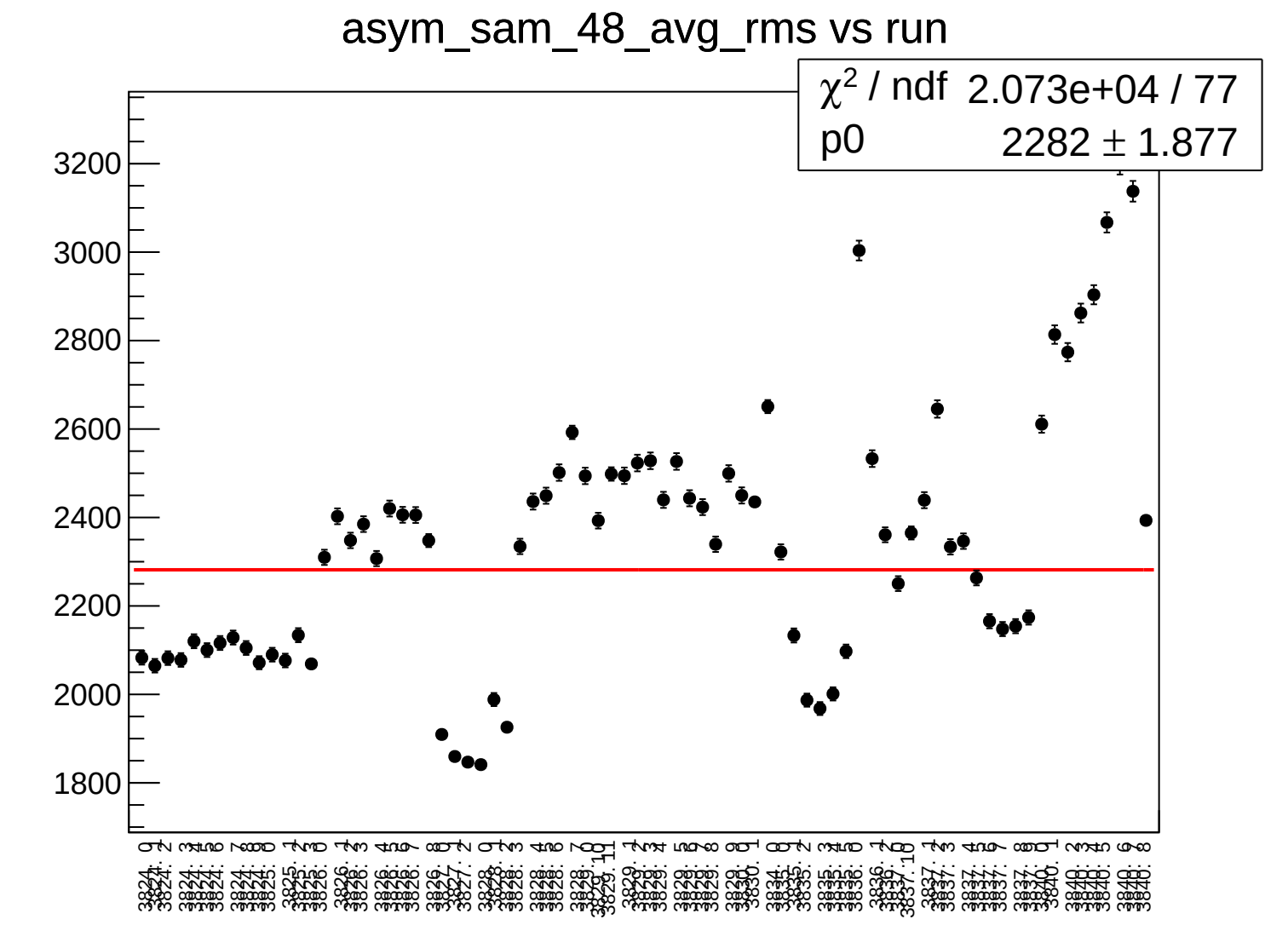

asym_sam_37_avg_mean vs run
×10^3
χ² / ndf 70.62 / 77
p0 −2478 ± 6193
pull
Entries 78
Mean −160.2
Std Dev 174.2

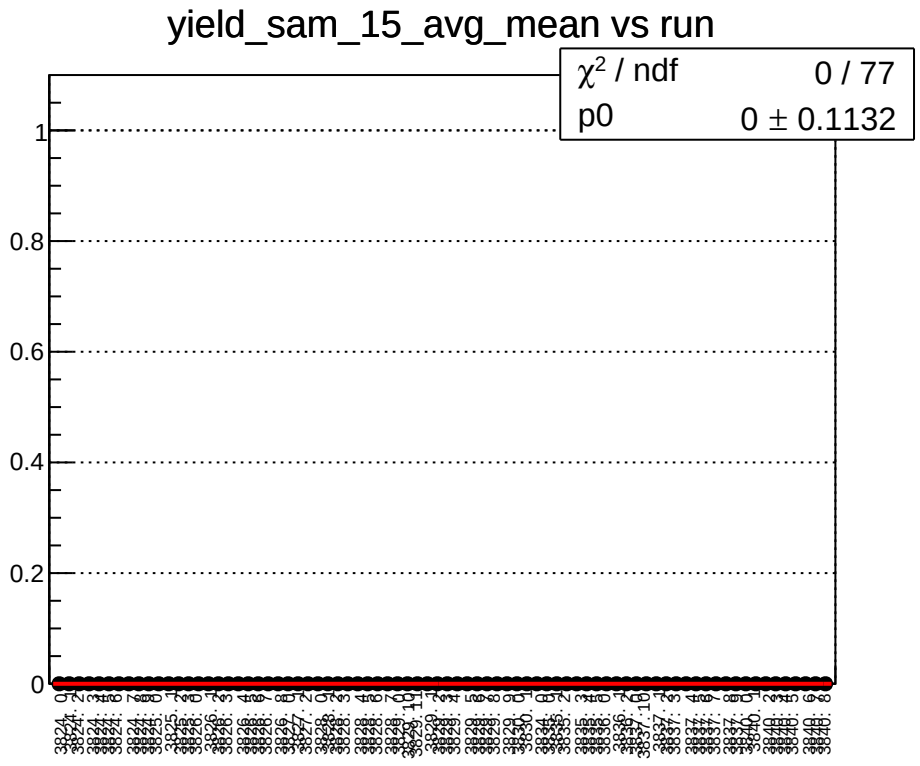

pull1D
Entries 78
Mean −0.003751
Std Dev 0.9515

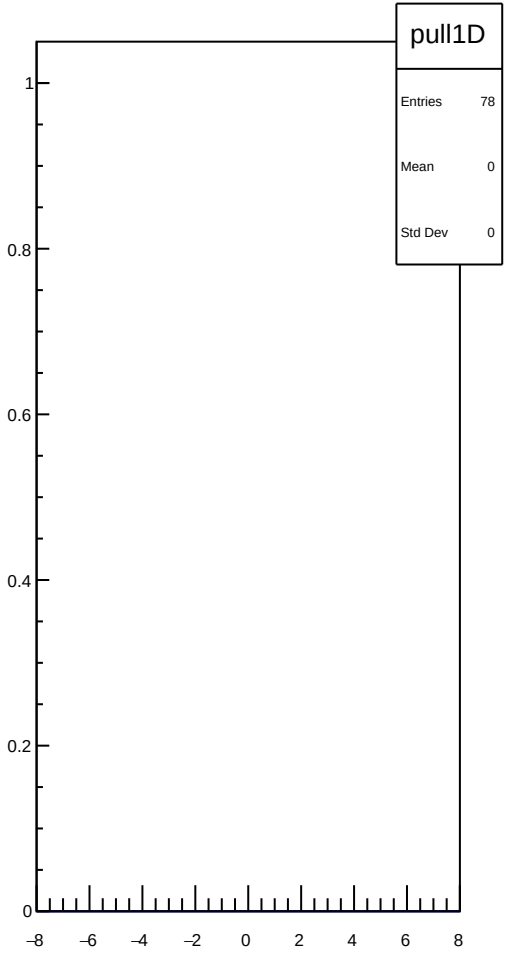

asym_sam_37_avg_rms vs run
χ^2 / ndf 3.497e+04 / 77
p0 5297 ± 4.379
9000
8000
7000
6000
5000
4000

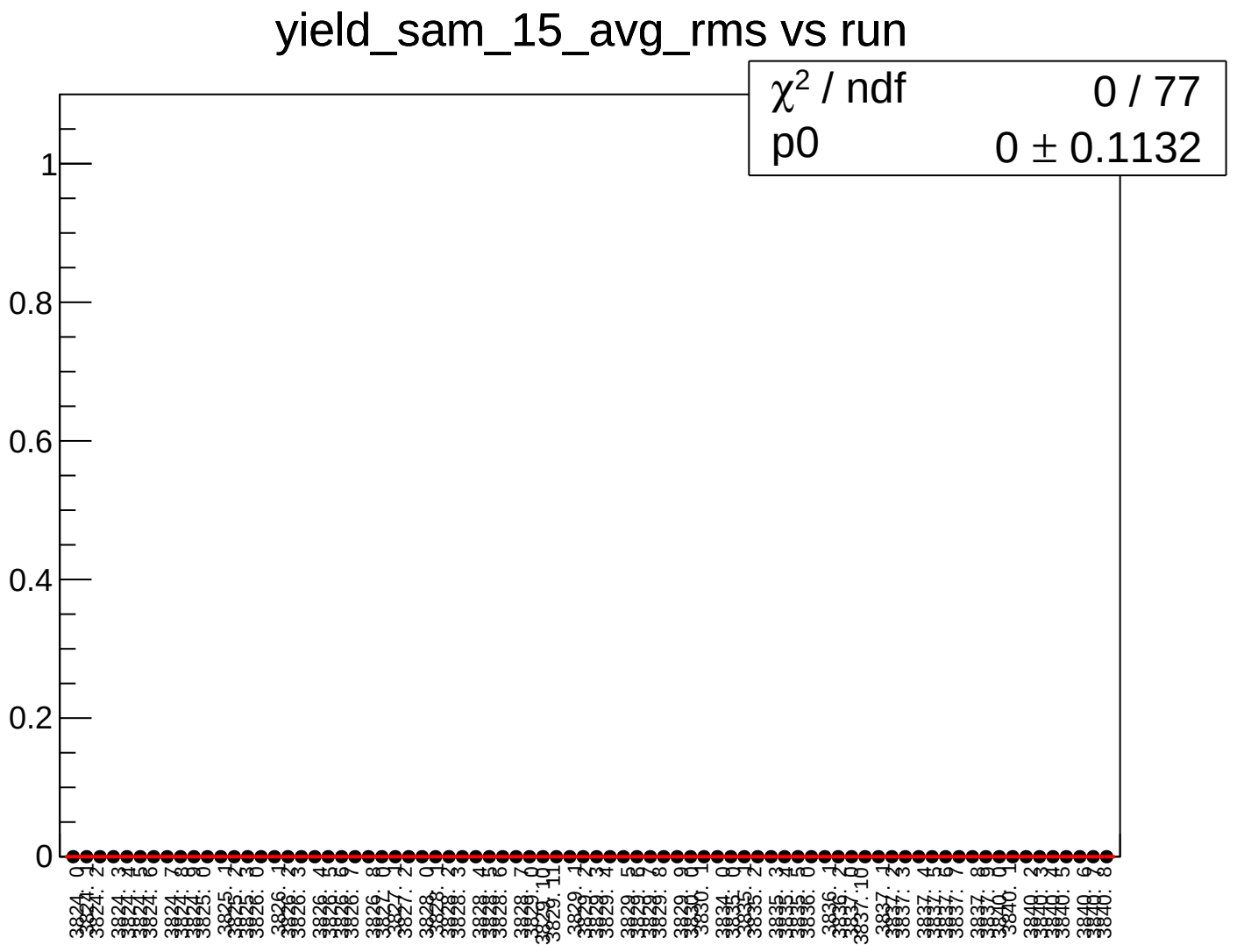

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 80.56 / 77
p0 −1593 ± 2655
pull
Entries 78
Mean −77.56
Std Dev 65.72

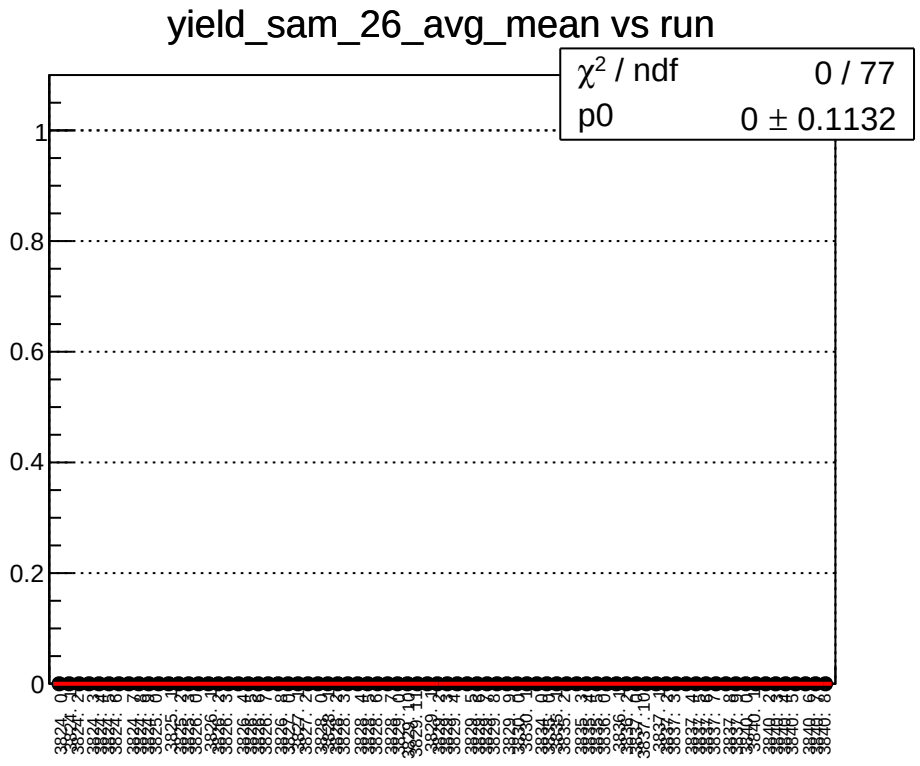

pull1D
Entries 78
Mean −0.005002
Std Dev 1.016

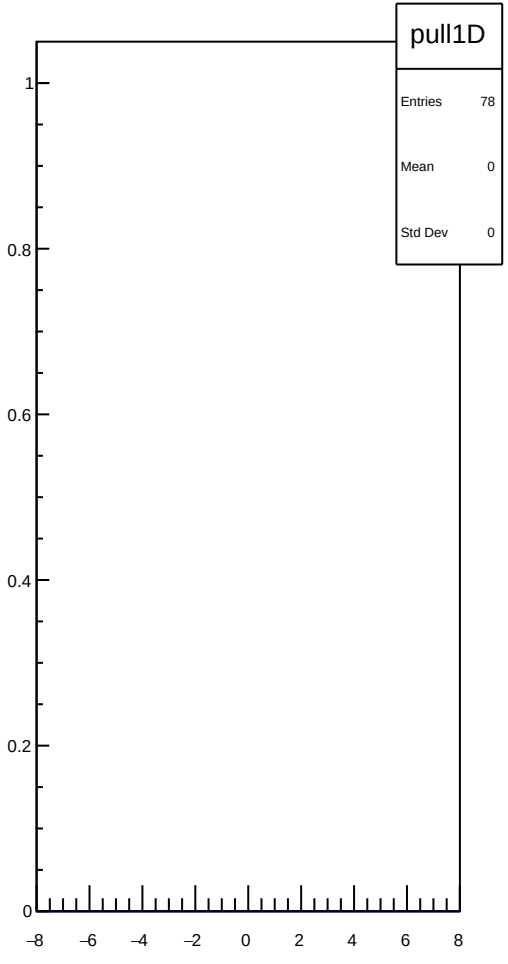

asym_sam_48_avg_rms vs run
χ² / ndf 2.073e+04 / 77
p0 2282 ± 1.877
3200
3000
2800
2600
2400
2200
2000
1800

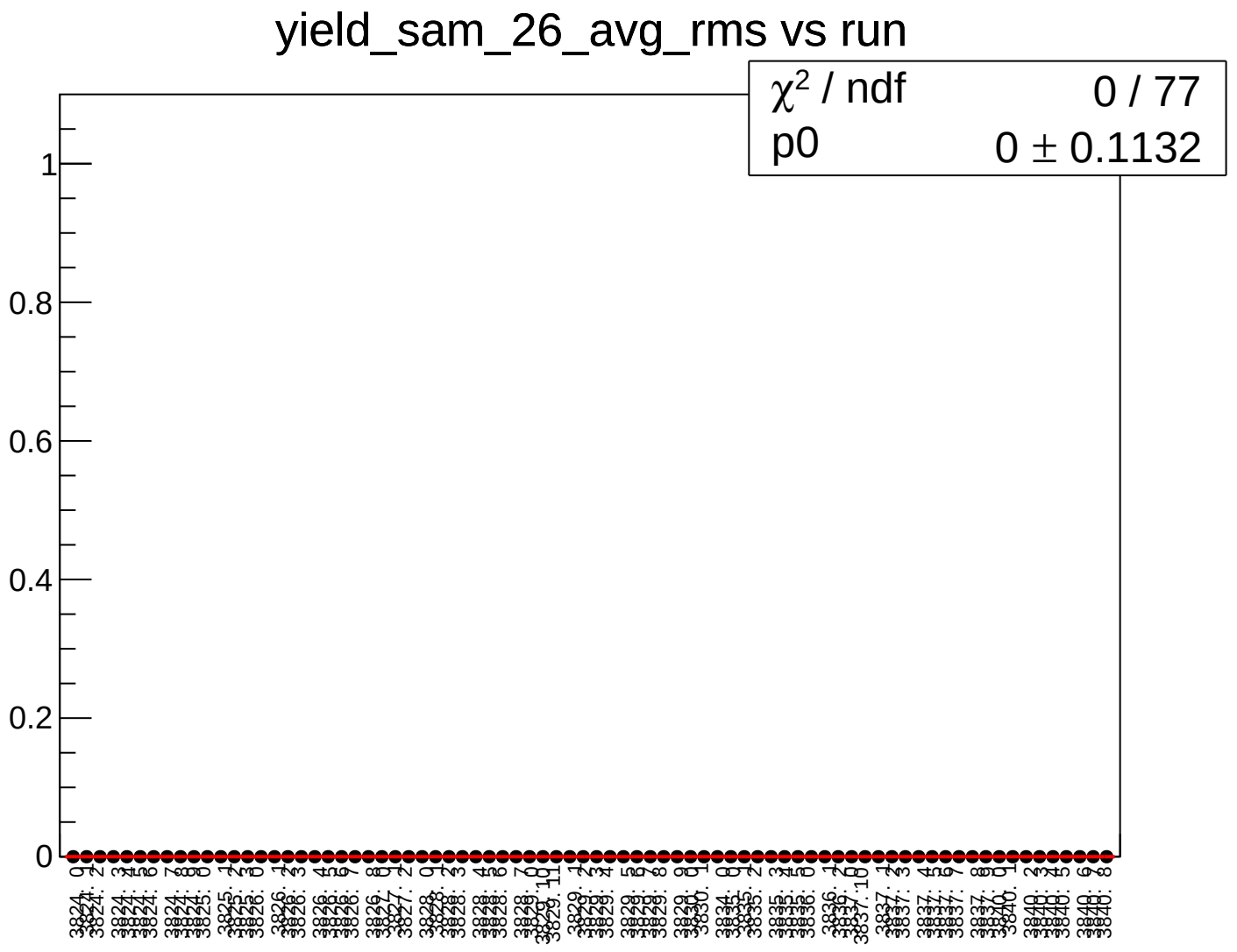

yield_sam_15_avg_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

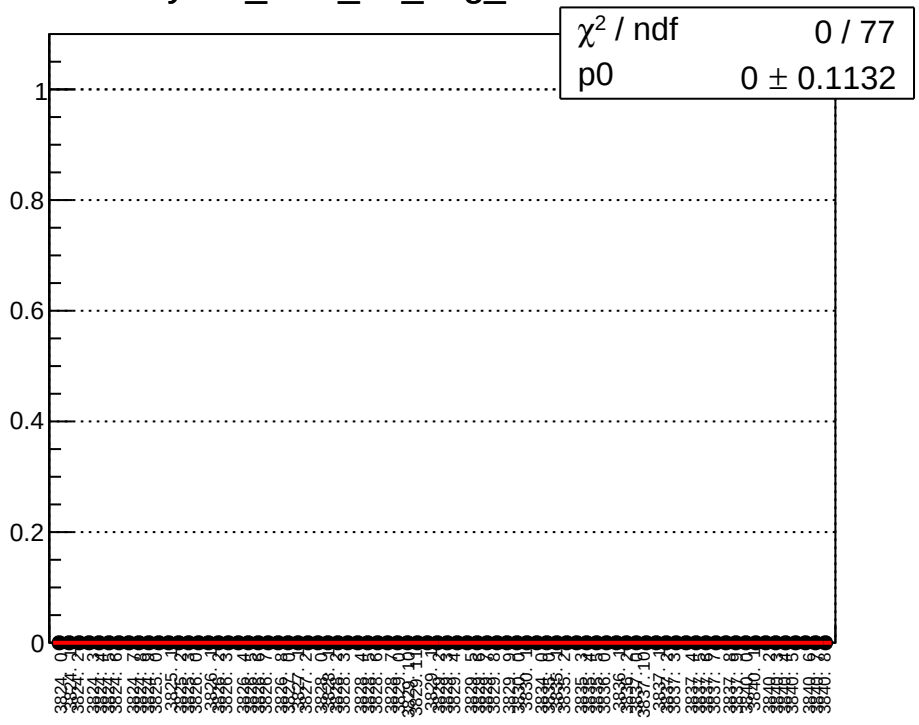

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

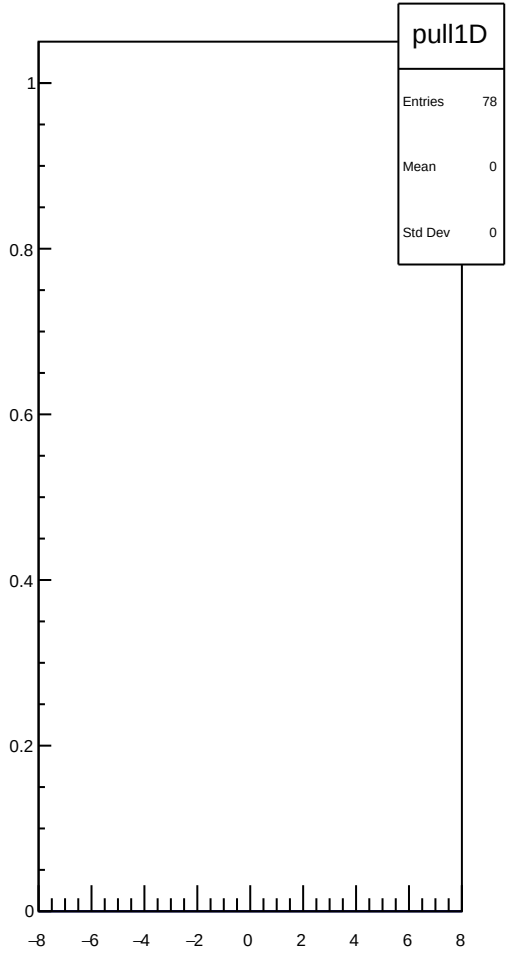

yield_sam_15_avg_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

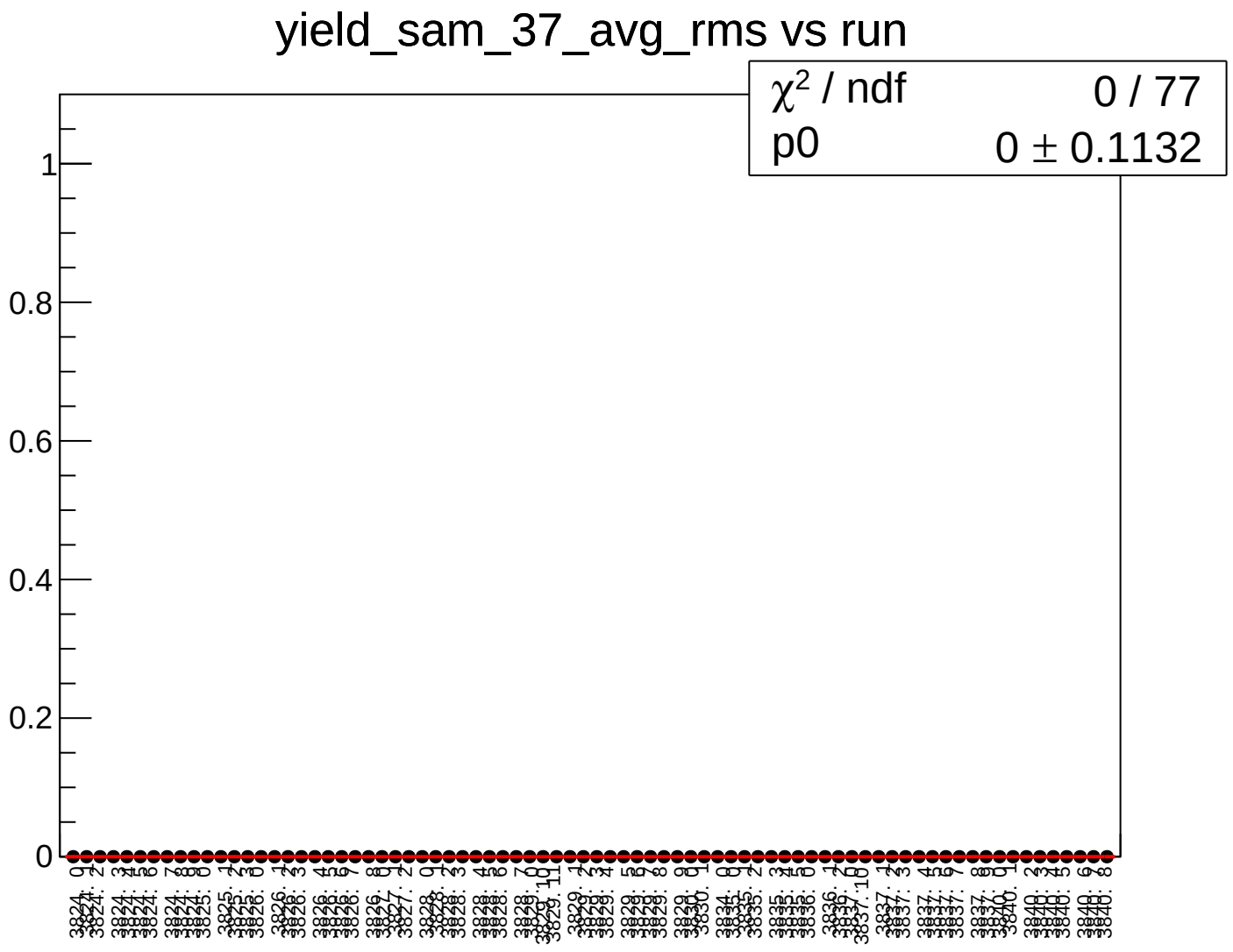

yield_sam_26_avg_mean vs run
χ^2 / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

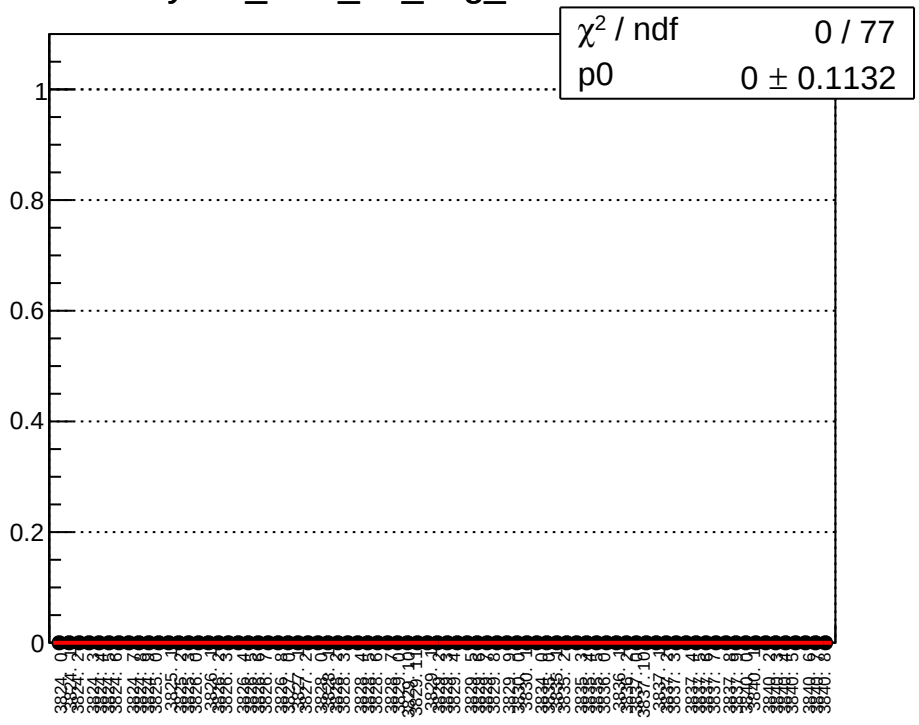

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

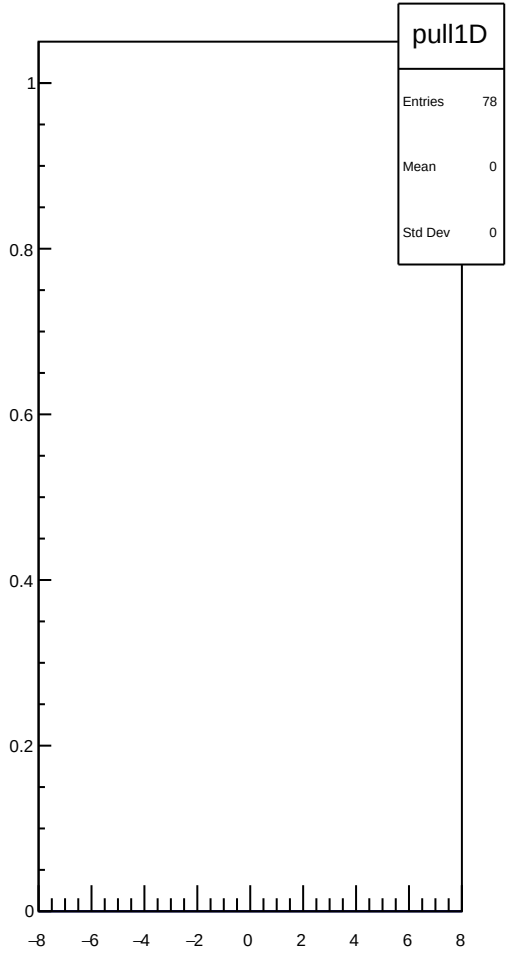

yield_sam_26_avg_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

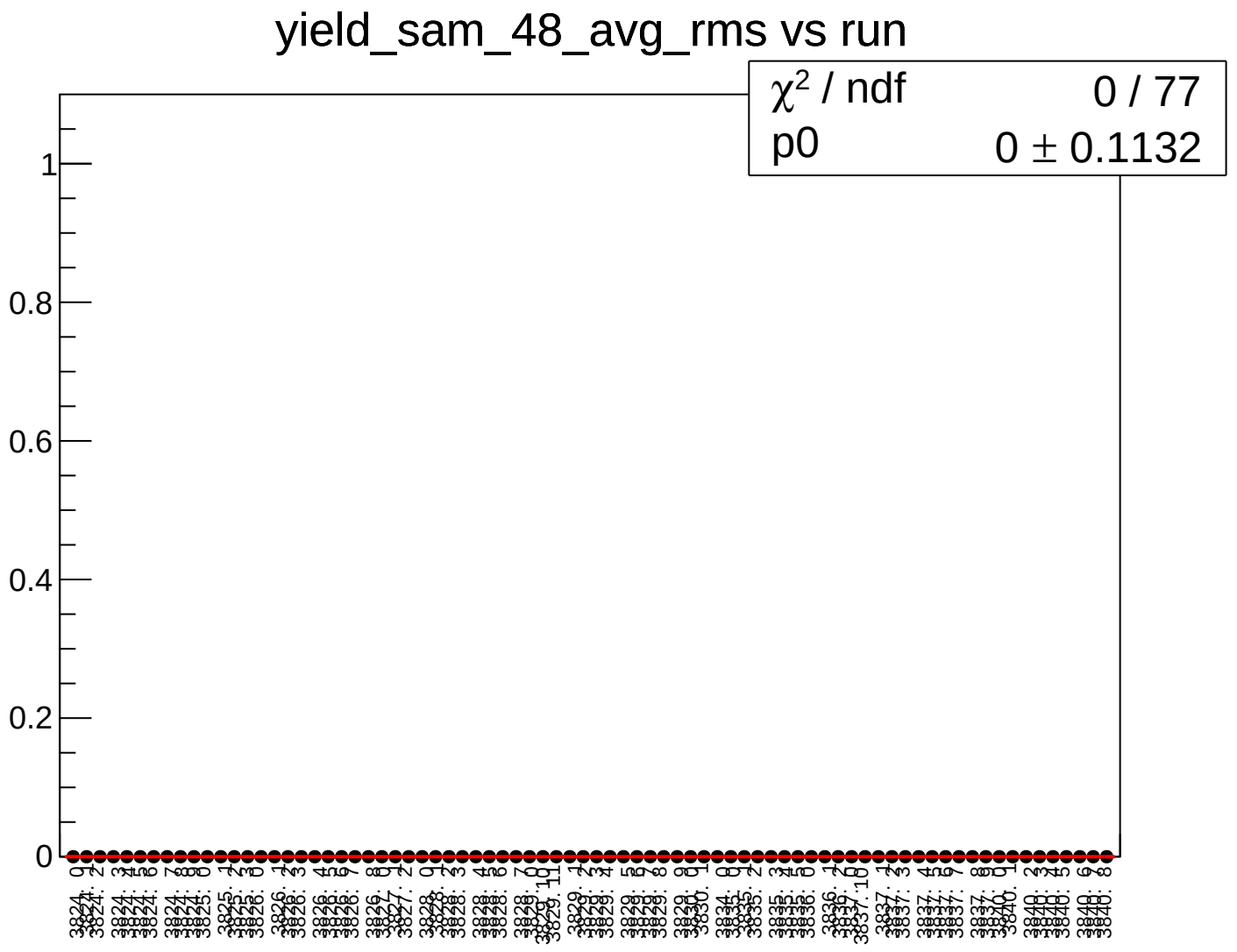

yield_sam_37_avg_mean vs run
χ^2 / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

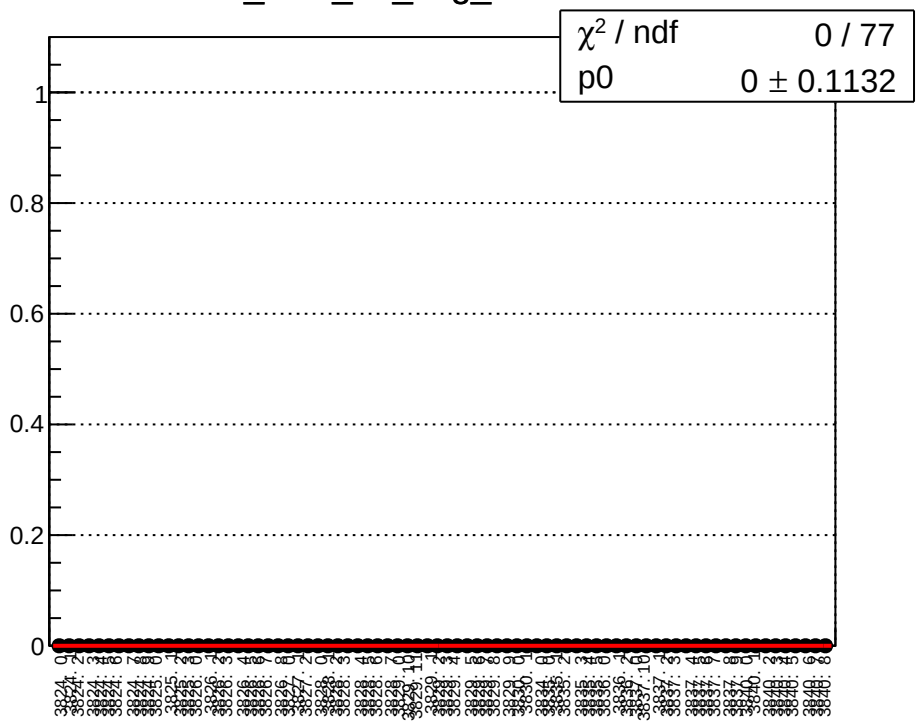

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

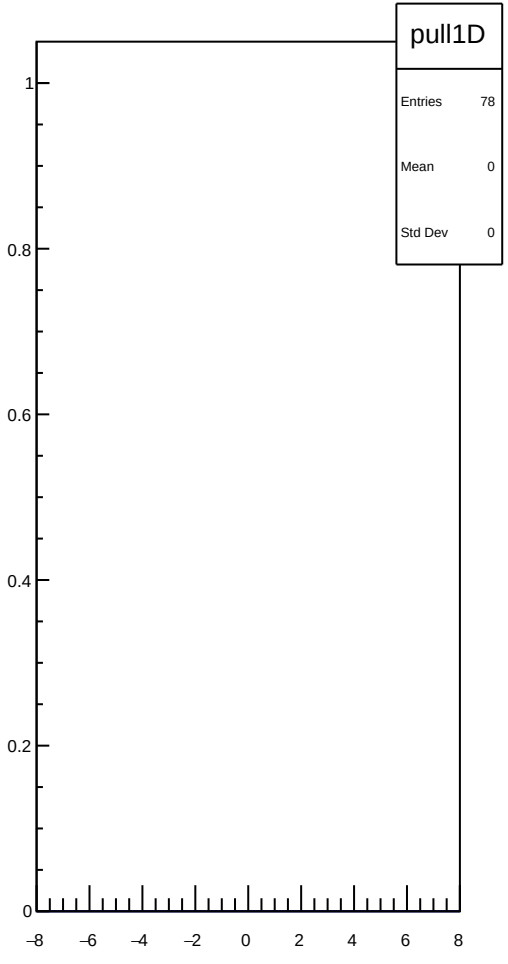

yield_sam_37_avg_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

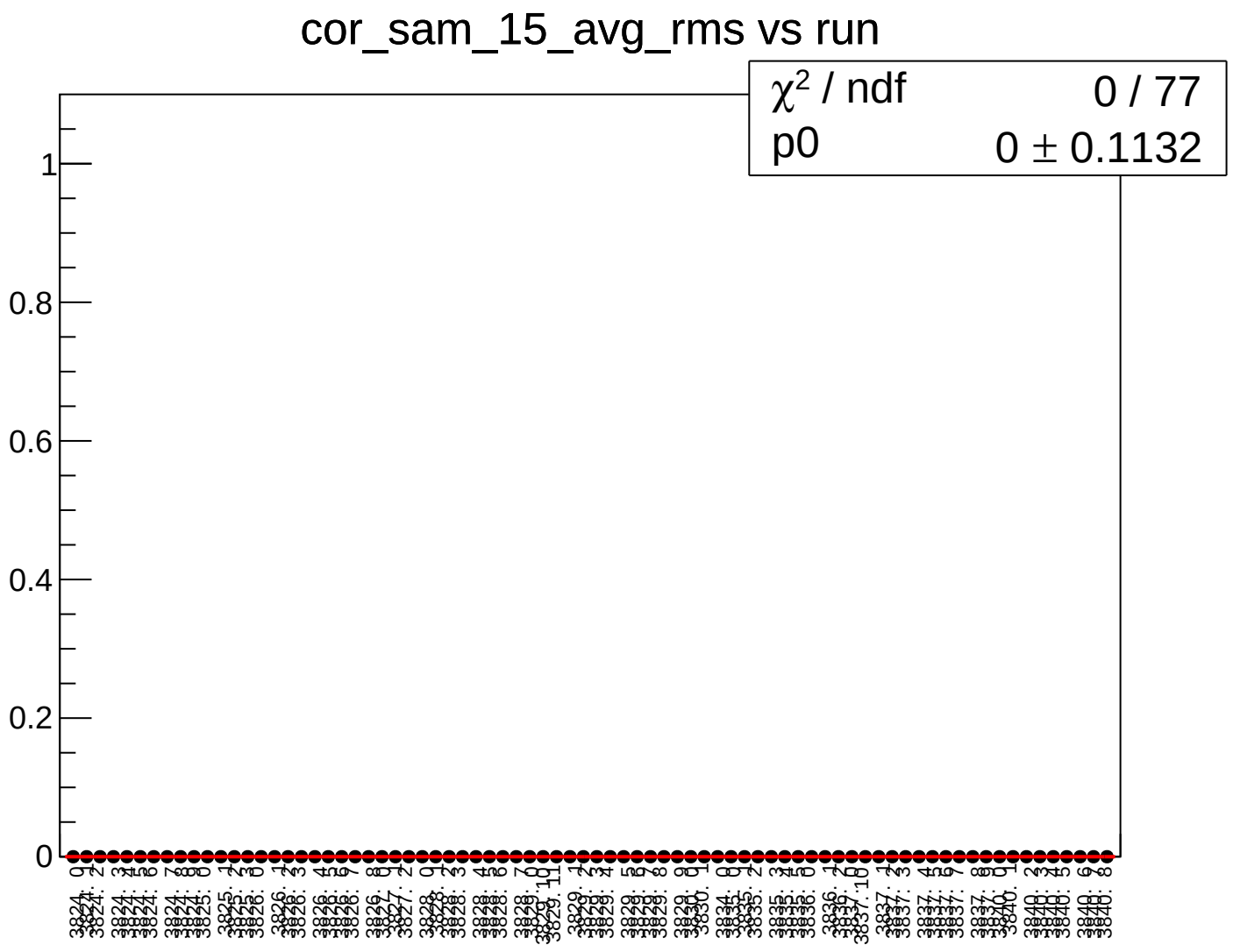

yield_sam_48_avg_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

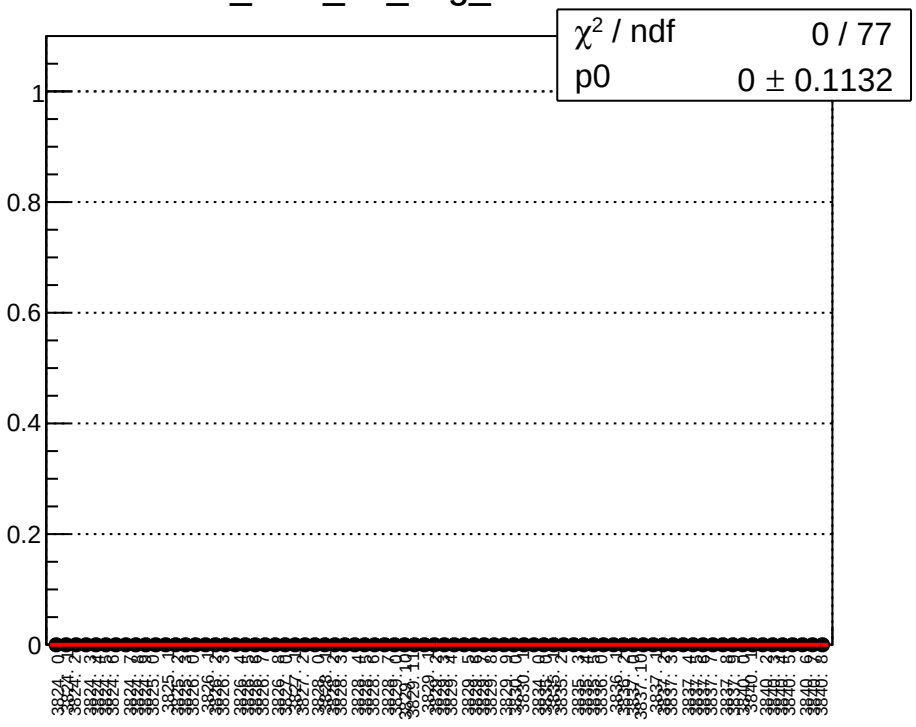

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

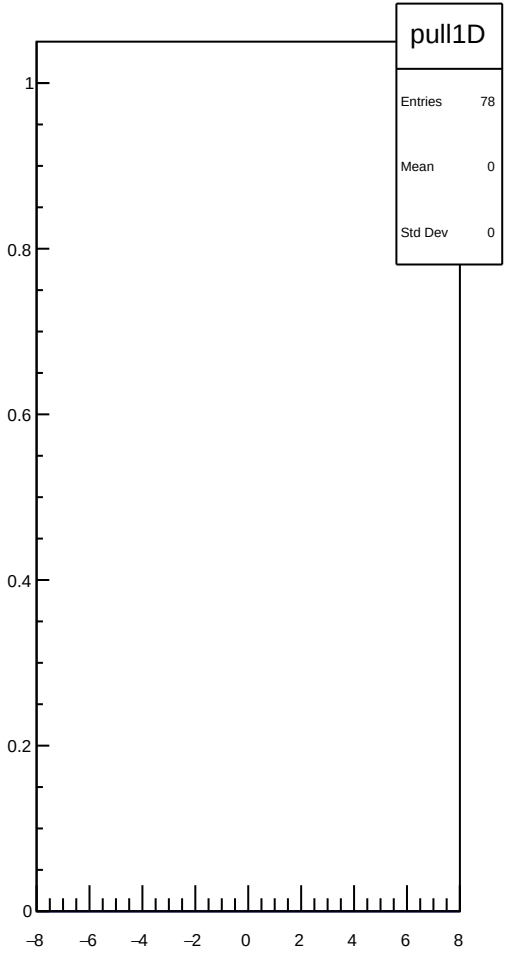

yield_sam_48_avg_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

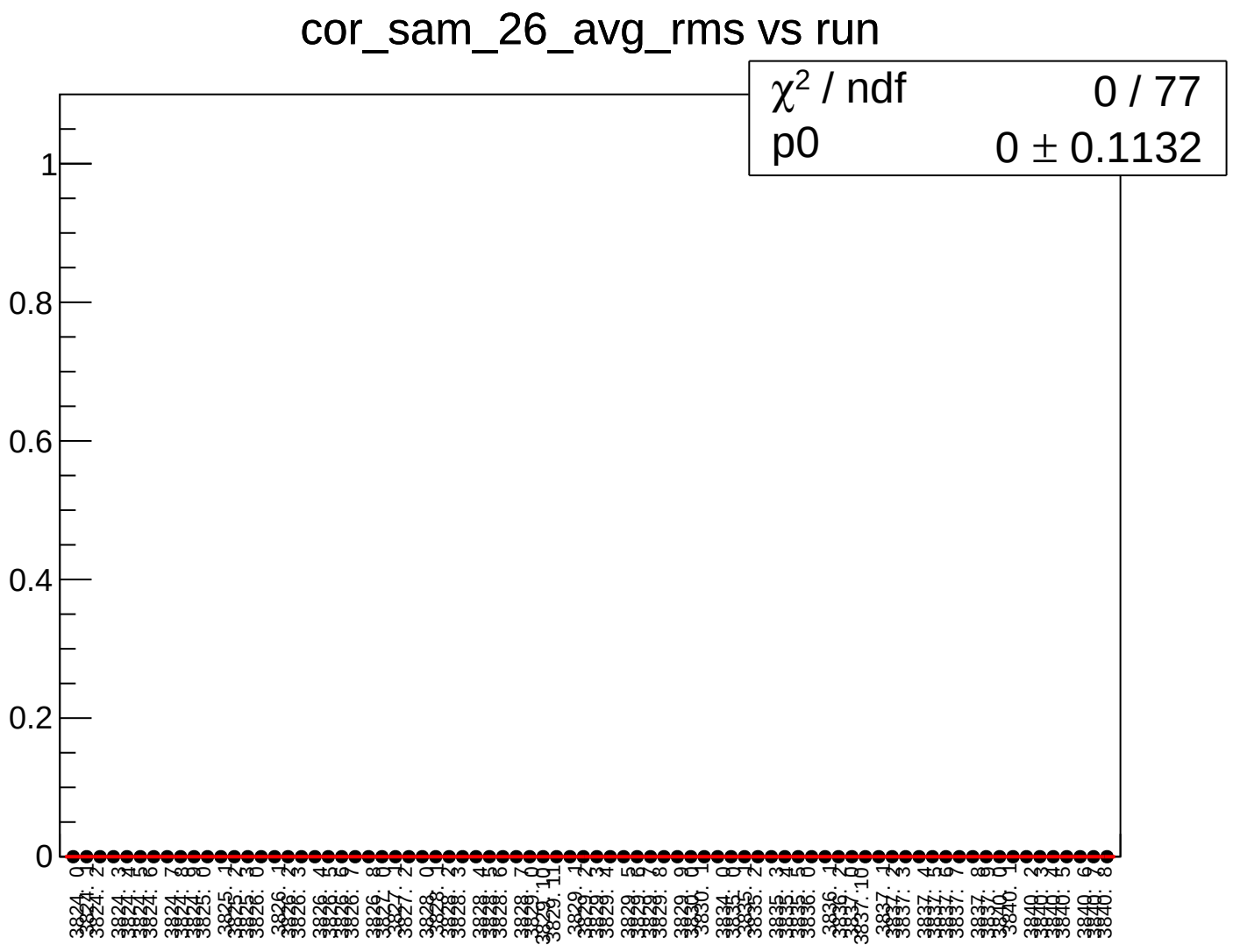

cor_sam_15_avg_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

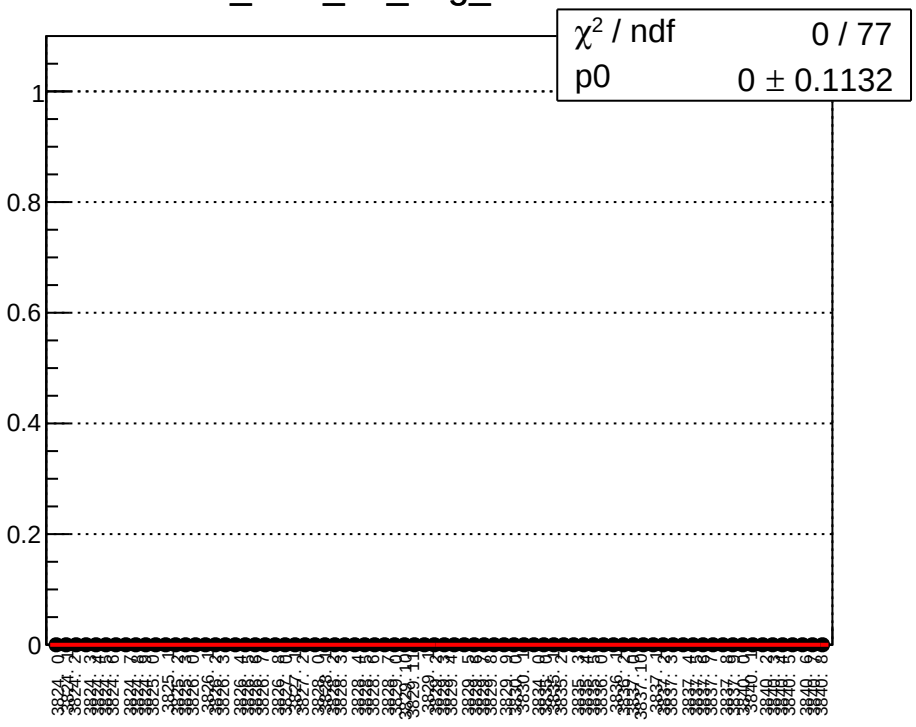

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

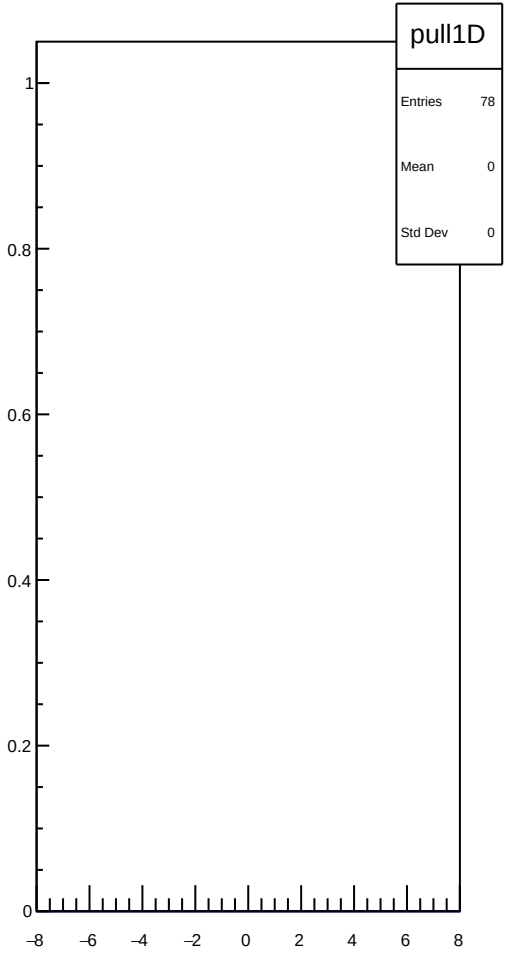

cor_sam_15_avg_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

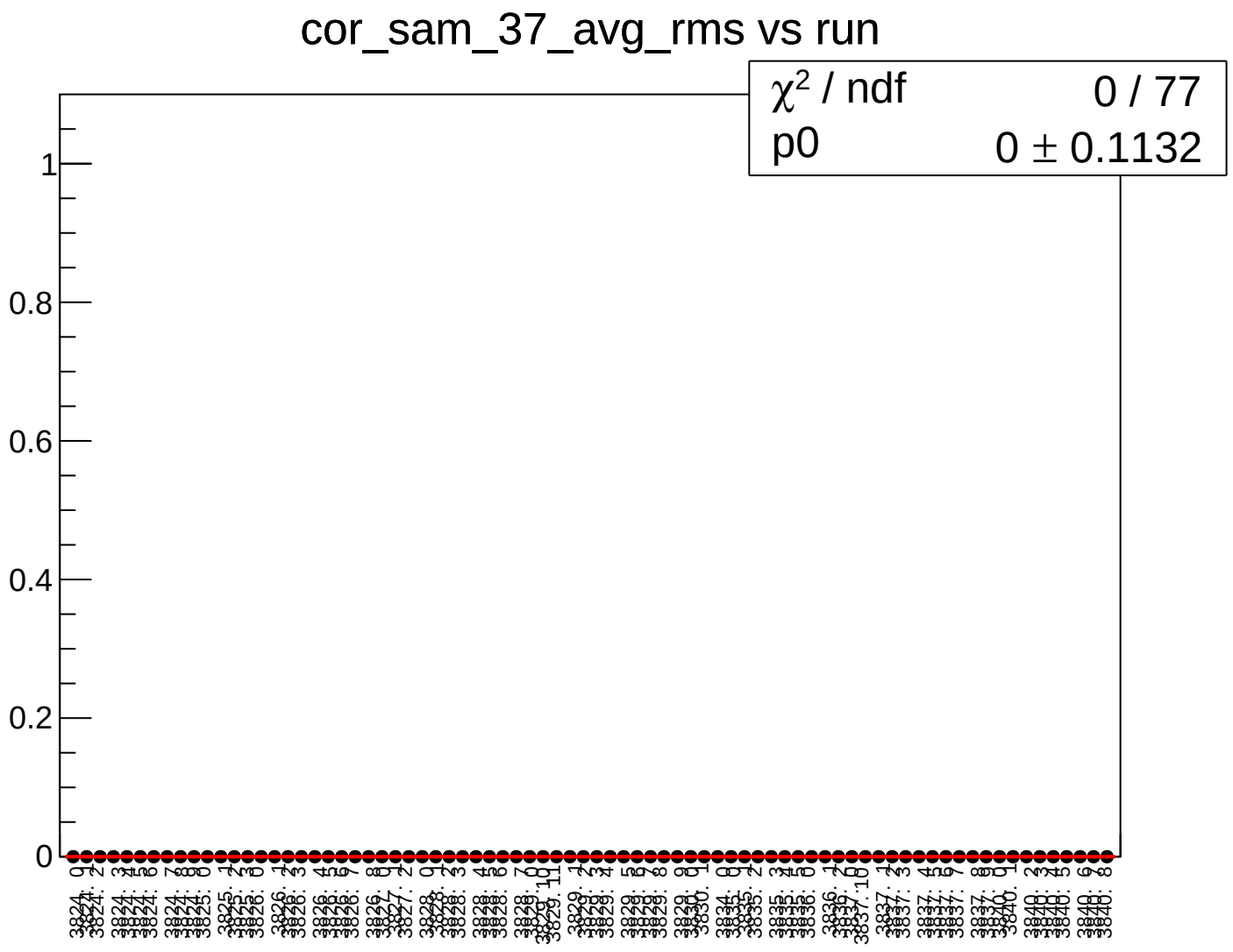

cor_sam_26_avg_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

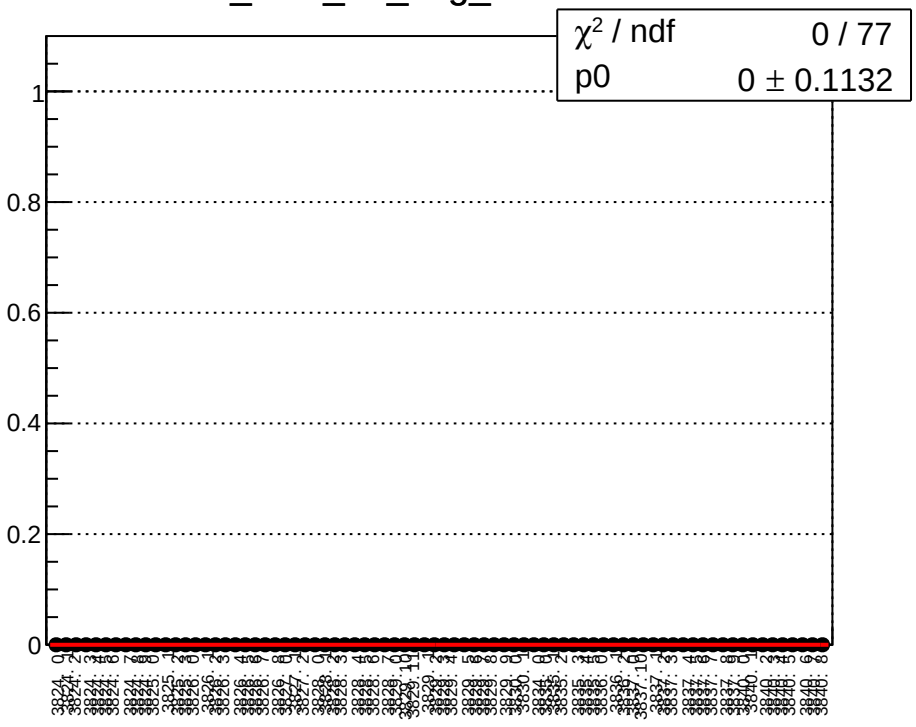

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

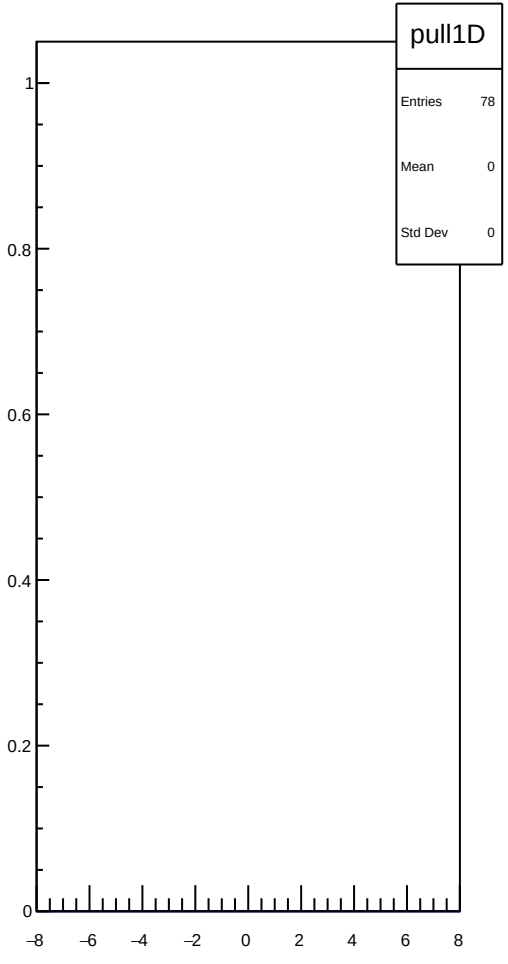

cor_sam_26_avg_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

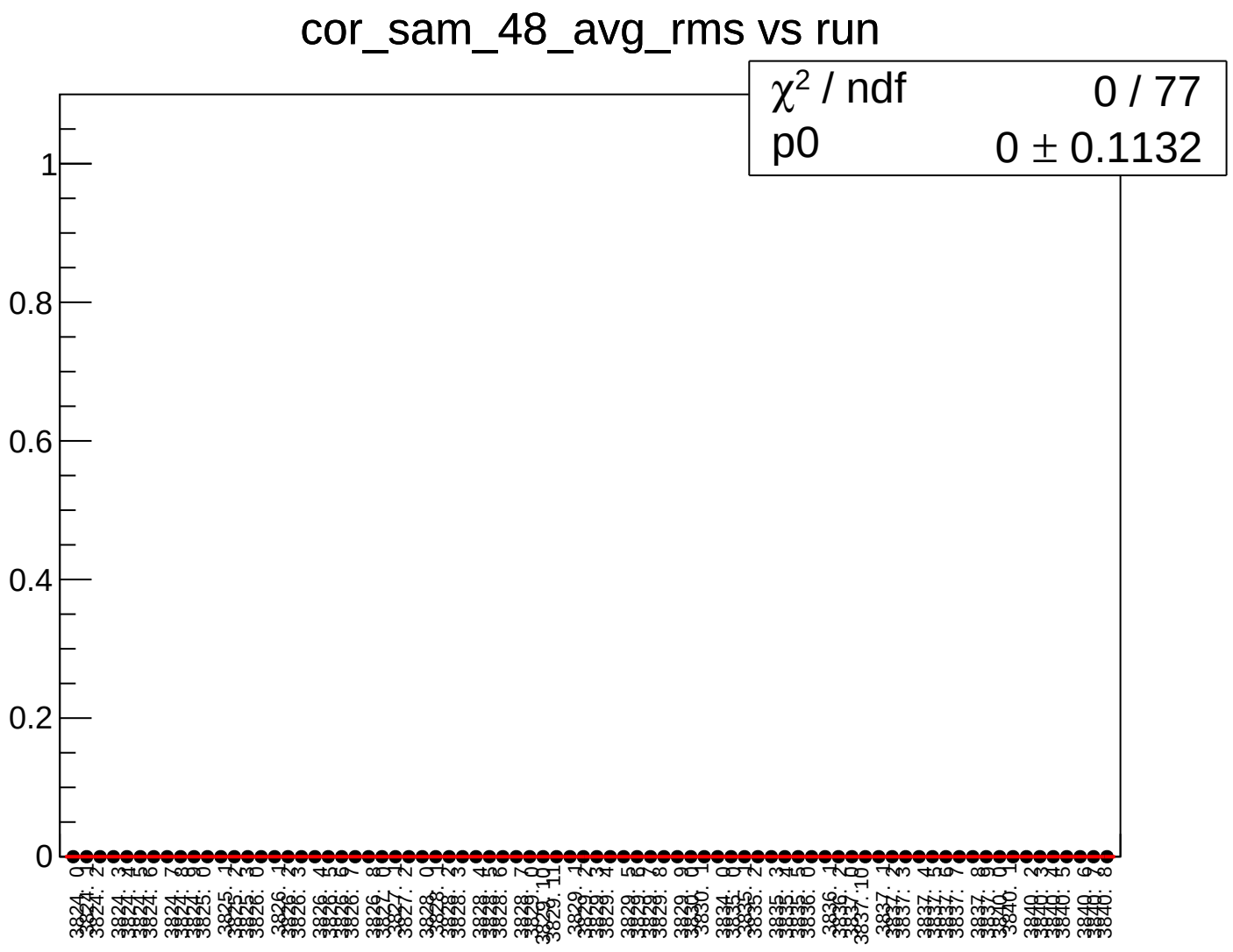

cor_sam_37_avg_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

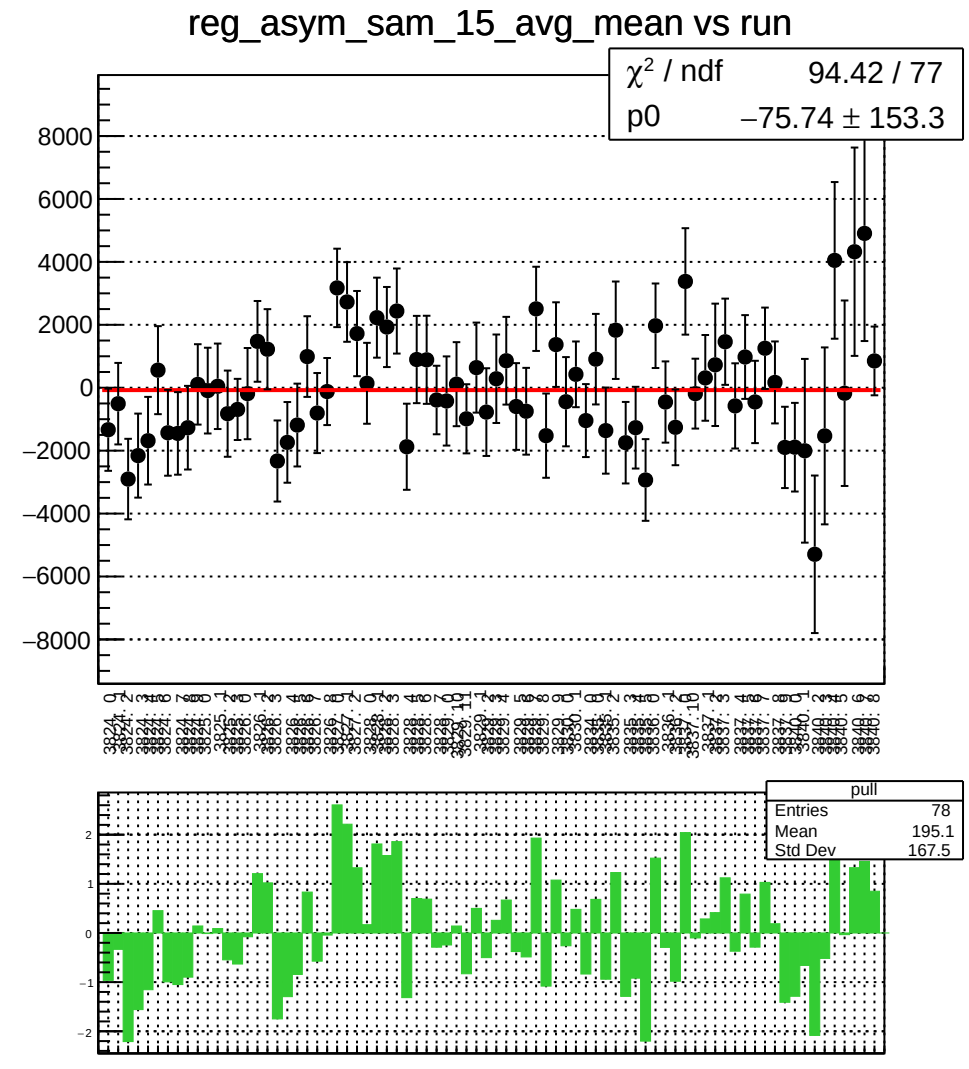

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

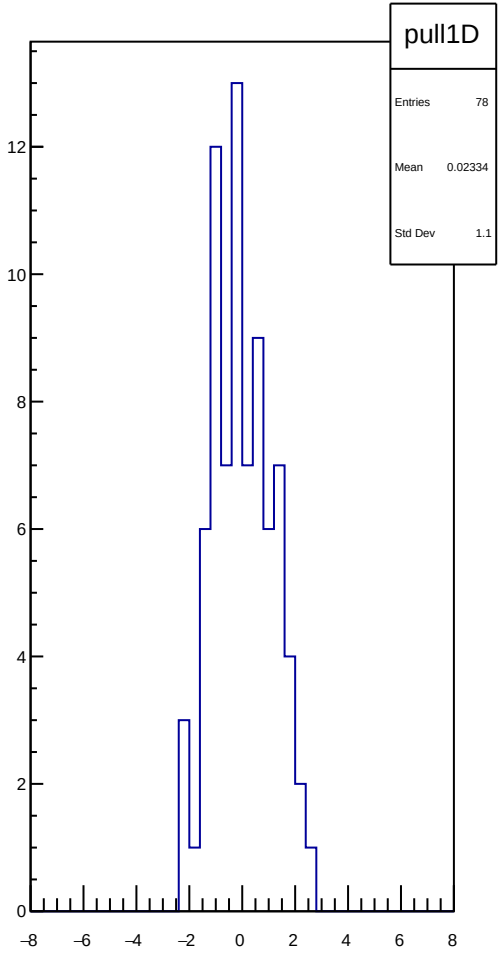

cor_sam_37_avg_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

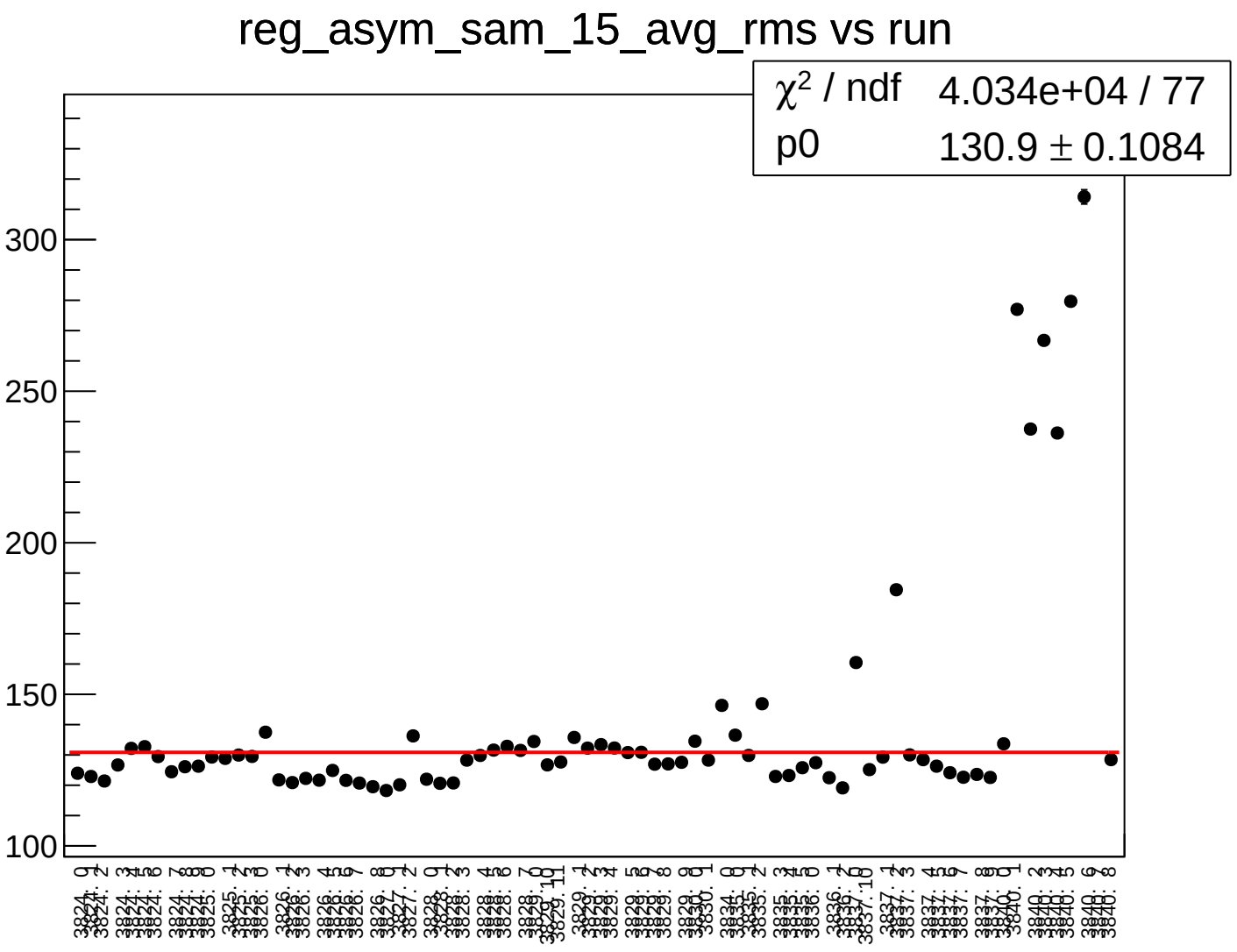

cor_sam_48_avg_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

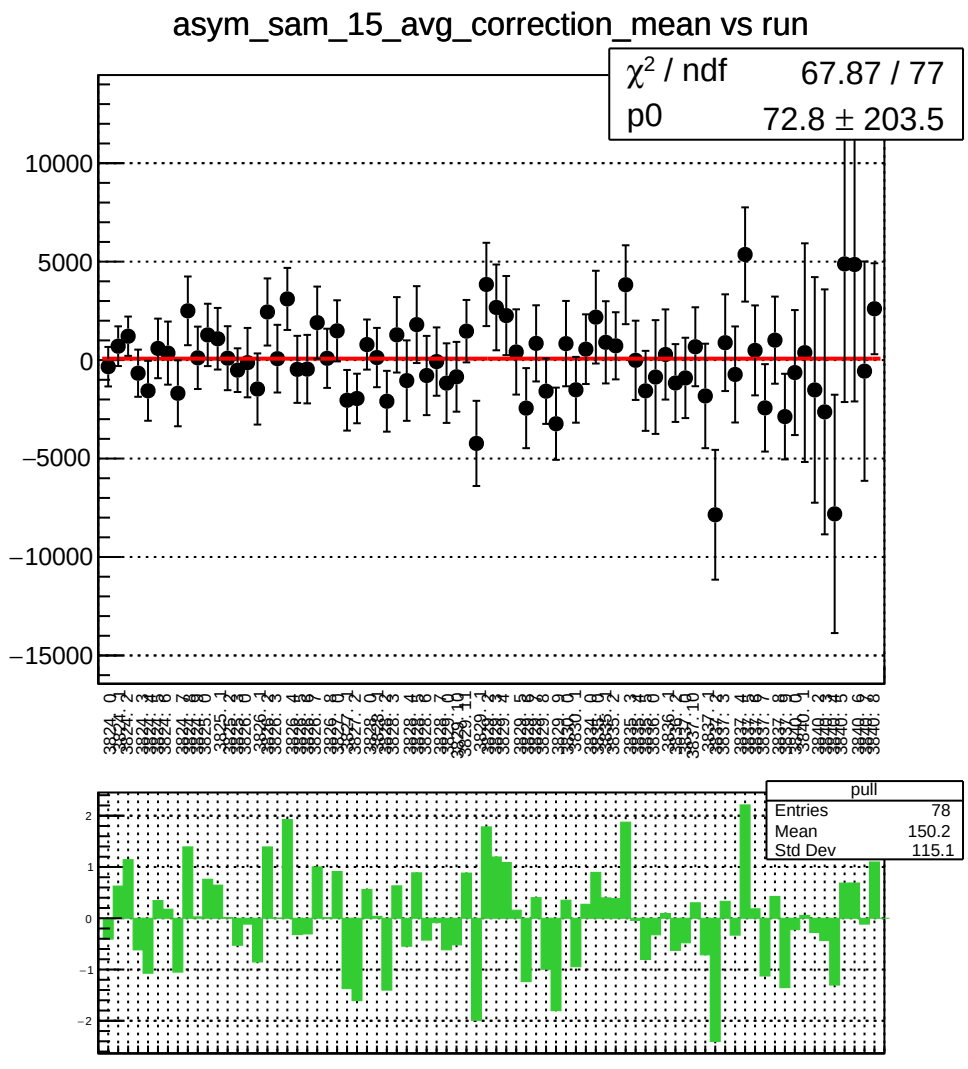

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

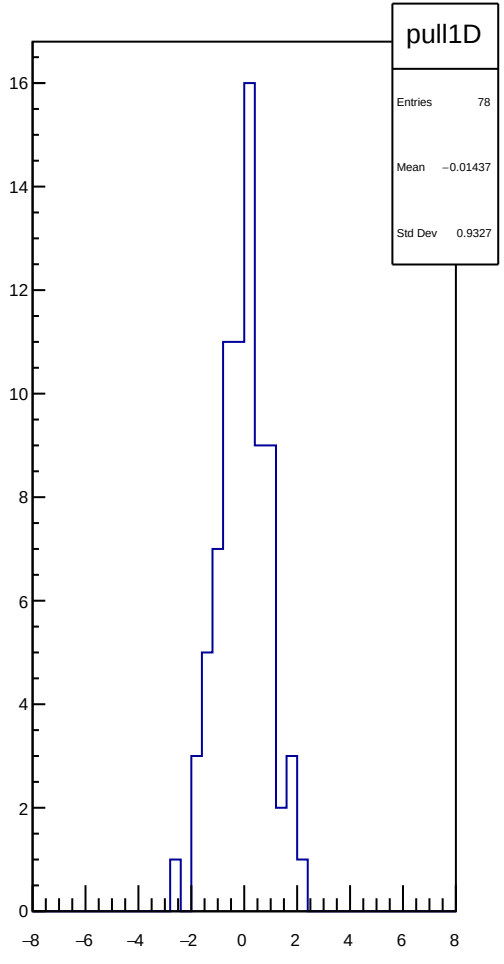

cor_sam_48_avg_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

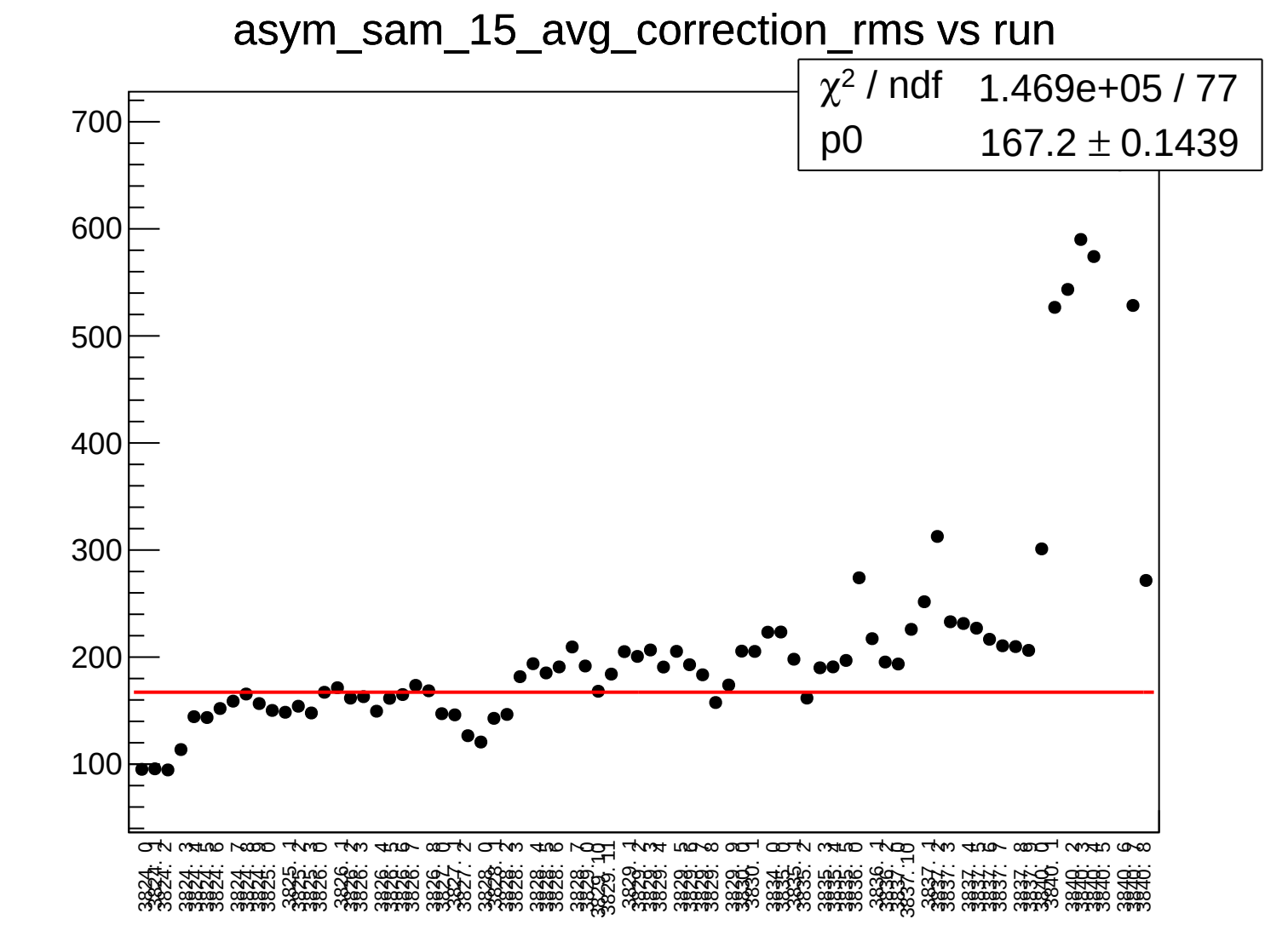

reg_asym_sam_15_avg_mean vs run
χ² / ndf 94.42 / 77
p0 −75.74 ± 153.3
pull
Entries 78
Mean 195.1
Std Dev 167.5

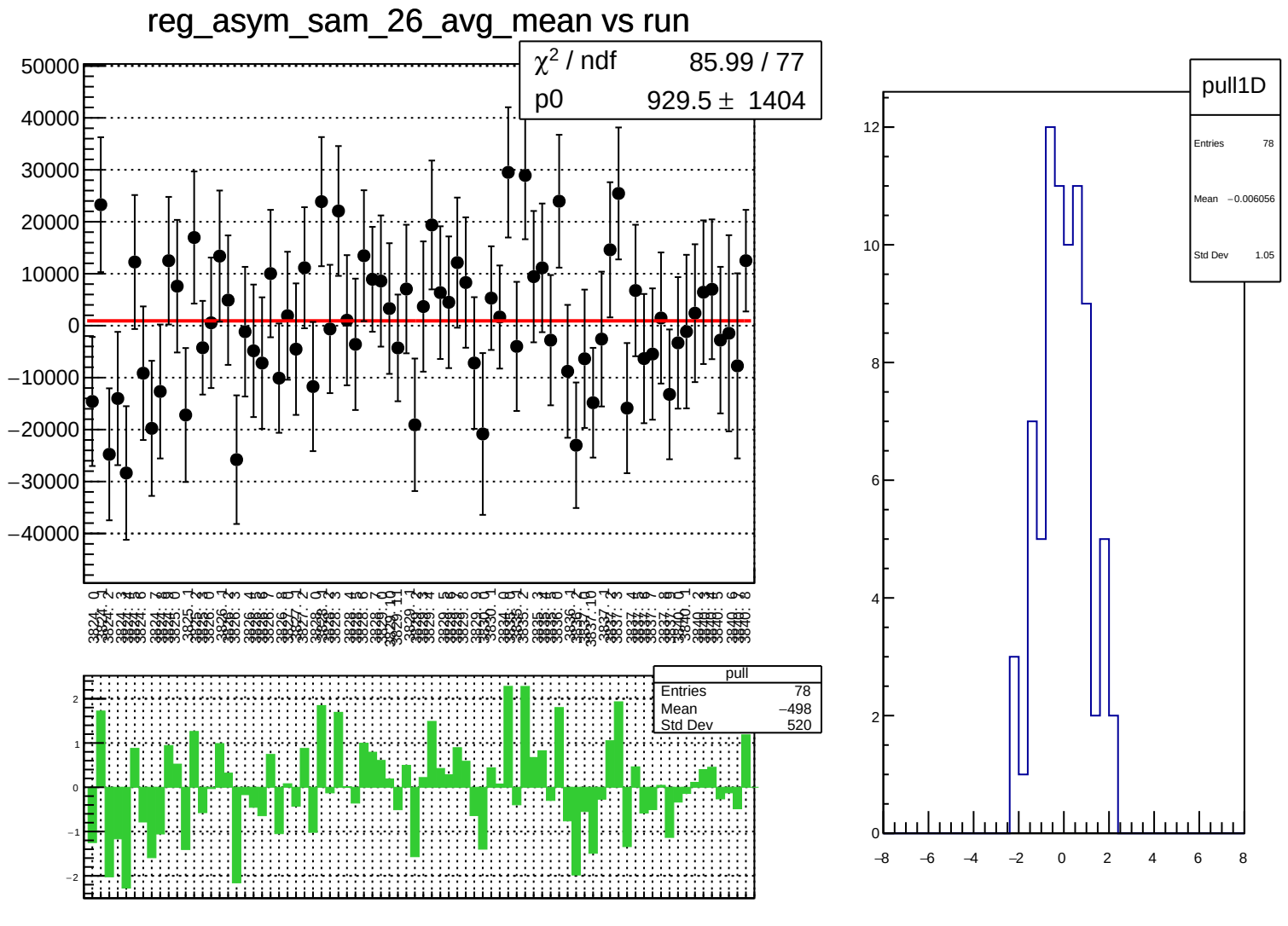

pull1D
Entries 78
Mean 0.02334
Std Dev 1.1

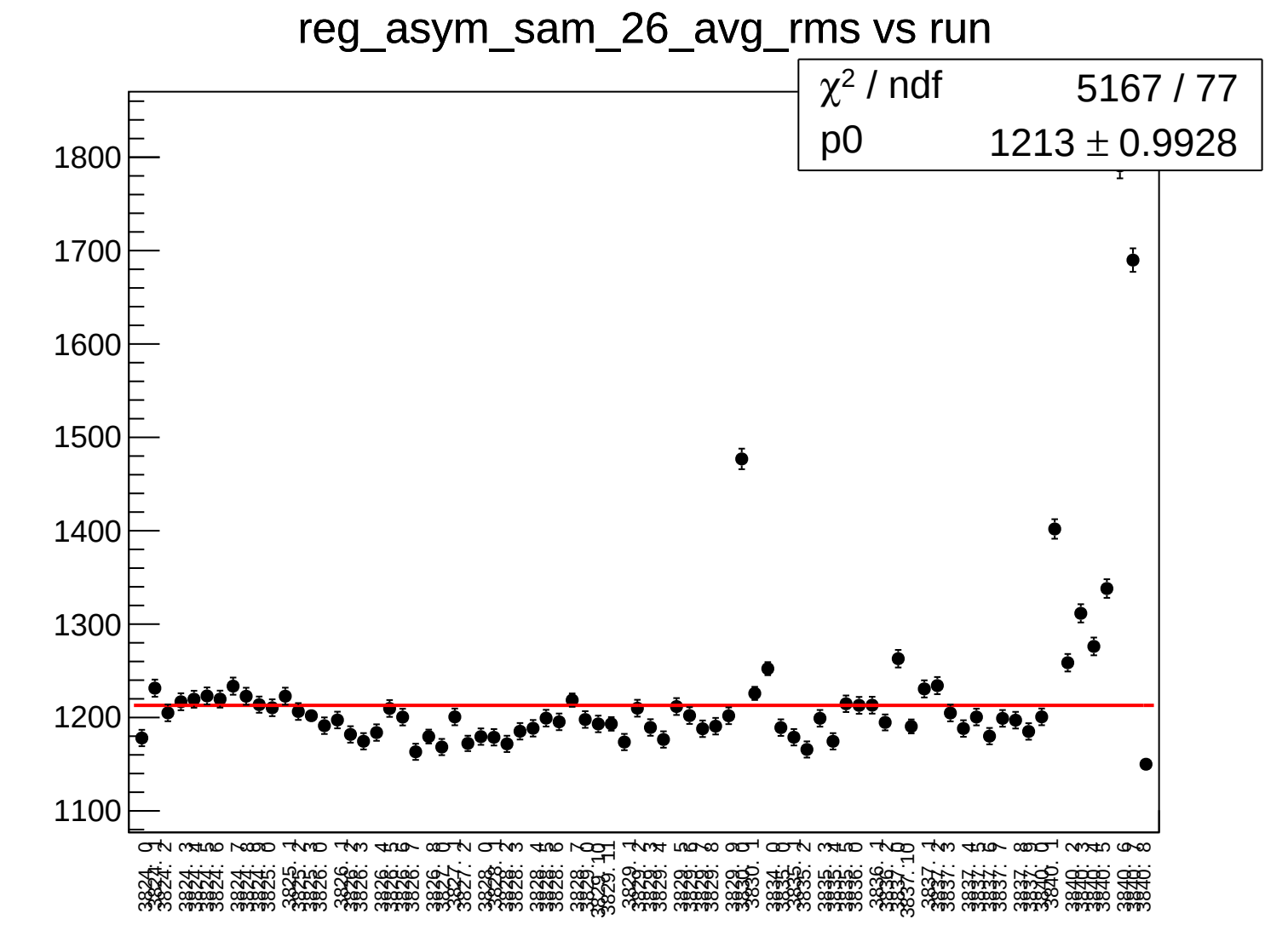

reg_asym_sam_15_avg_rms vs run
χ² / ndf 4.034e+04 / 77
p0 130.9 ± 0.1084
300
250
200
150
100

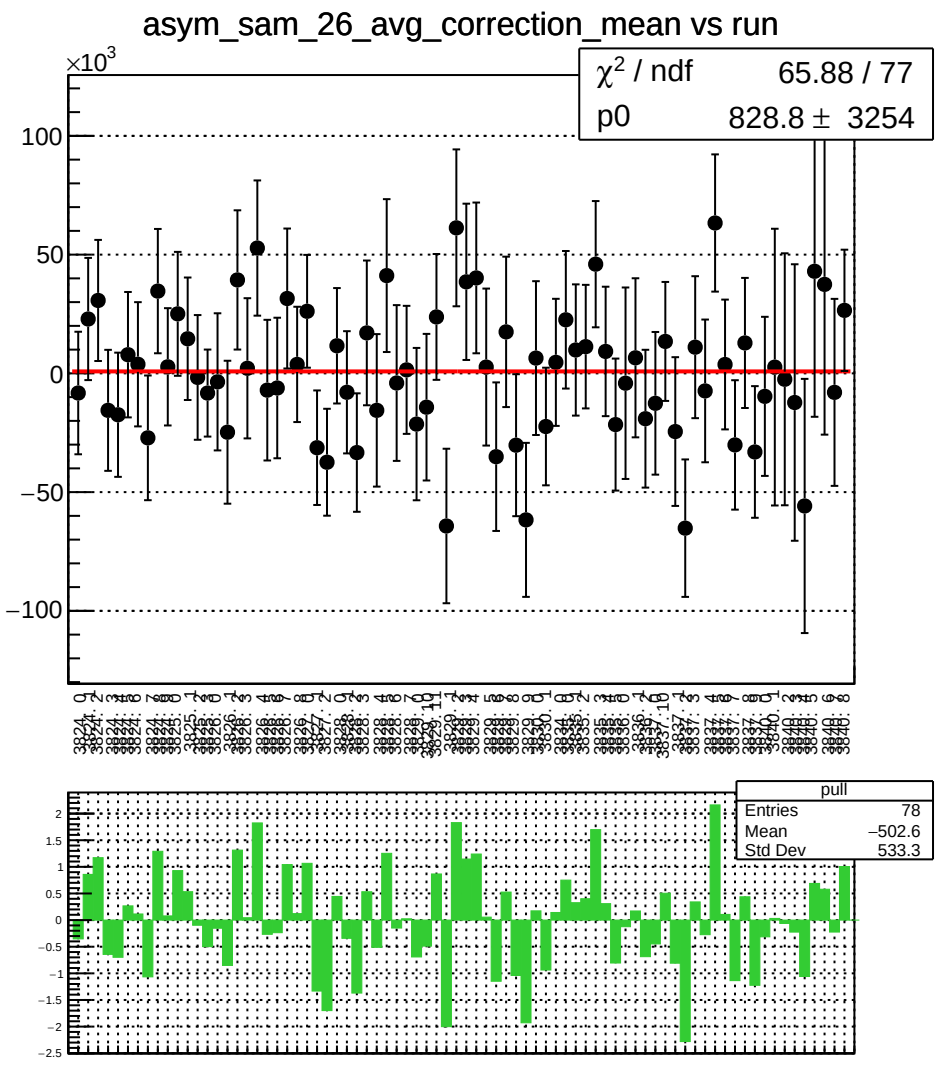

asym_sam_15_avg_correction_mean vs run
χ² / ndf 67.87 / 77
p0 72.8 ± 203.5
pull
Entries 78
Mean 150.2
Std Dev 115.1

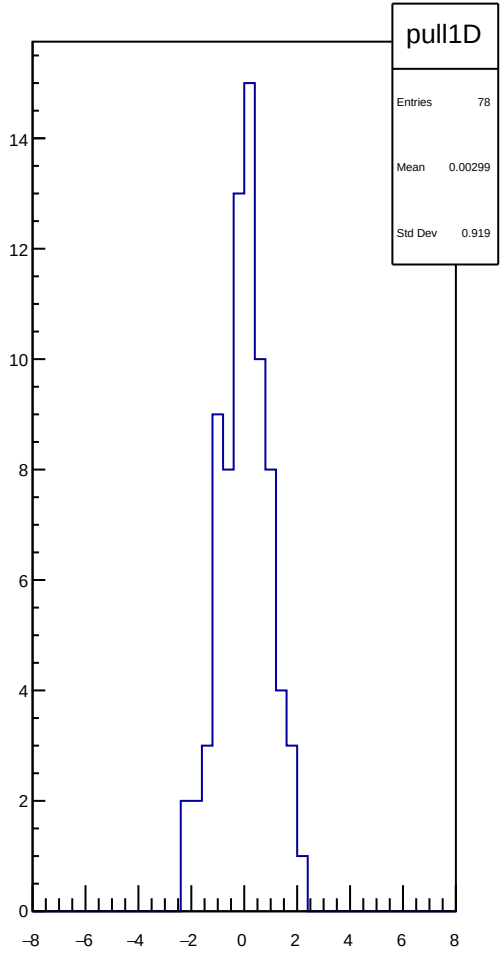

pull1D
Entries 78
Mean −0.01437
Std Dev 0.9327

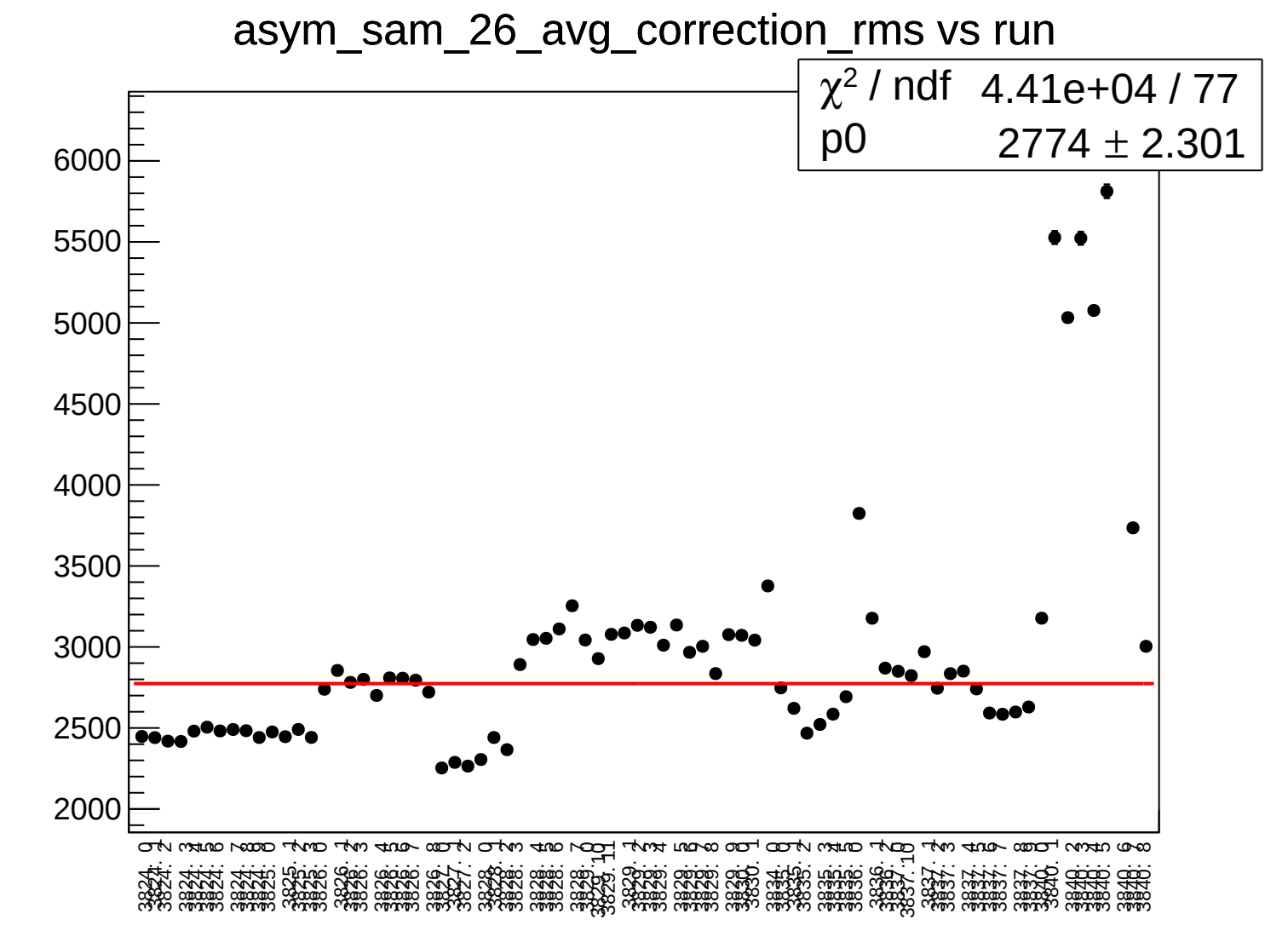

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1.469e+05 / 77
p0 167.2 ± 0.1439
700
600
500
400
300
200
100

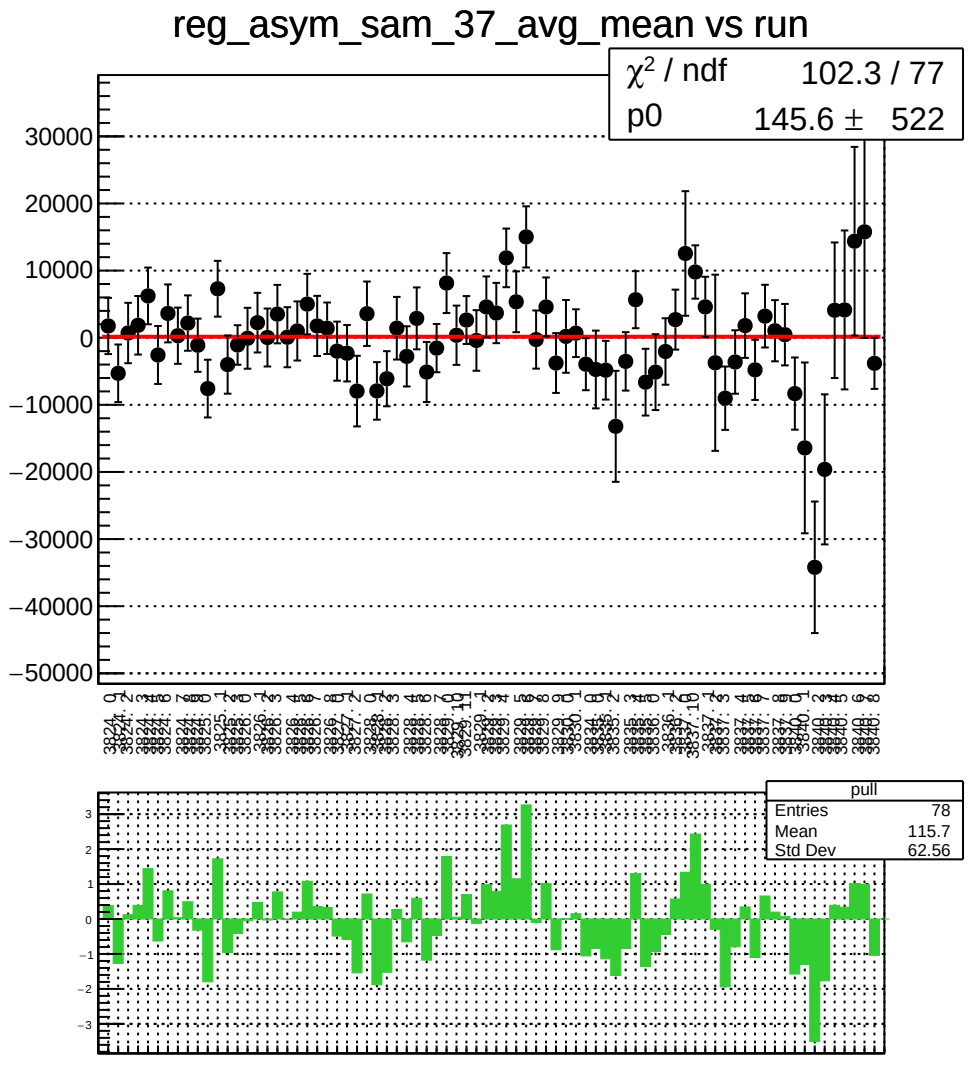

reg_asym_sam_26_avg_mean vs run
χ² / ndf 85.99 / 77
p0 929.5 ± 1404
pull
Entries 78
Mean −498
Std Dev 520
pull1D
Entries 78
Mean −0.006056
Std Dev 1.05

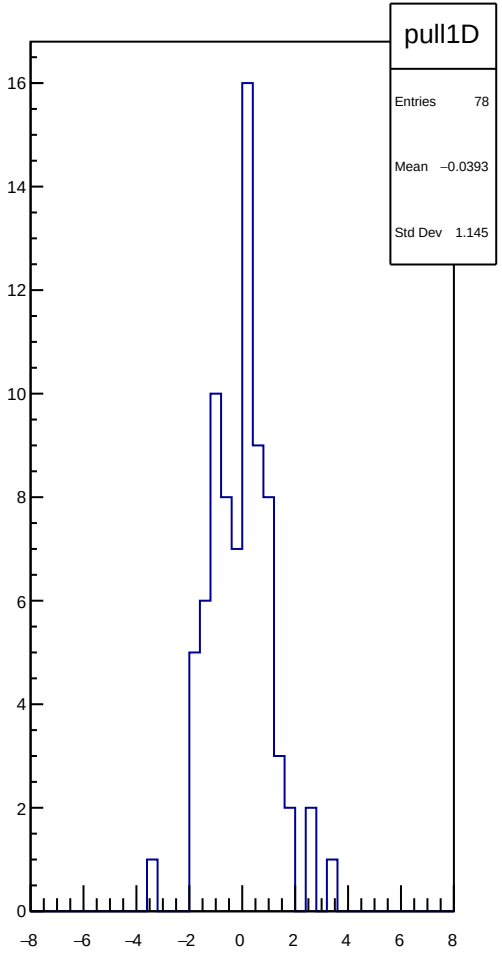

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 5167 / 77
p0 1213 ± 0.9928
1800
1700
1600
1500
1400
1300
1200
1100

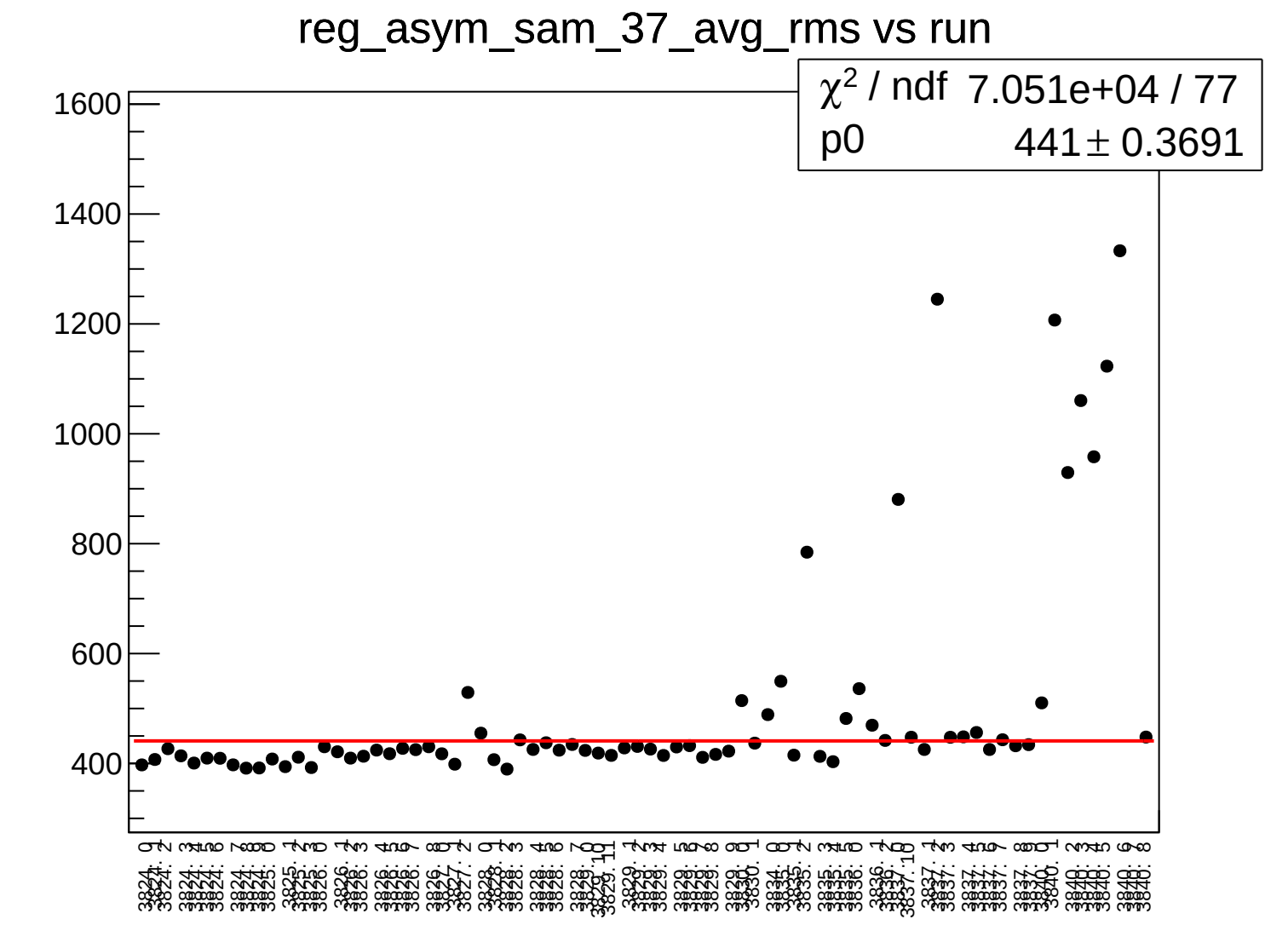

asym_sam_26_avg_correction_mean vs run
×10^3
χ² / ndf 65.88 / 77
p0 828.8 ± 3254
100
50
0
−50
−100
pull
Entries 78
Mean −502.6
Std Dev 533.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

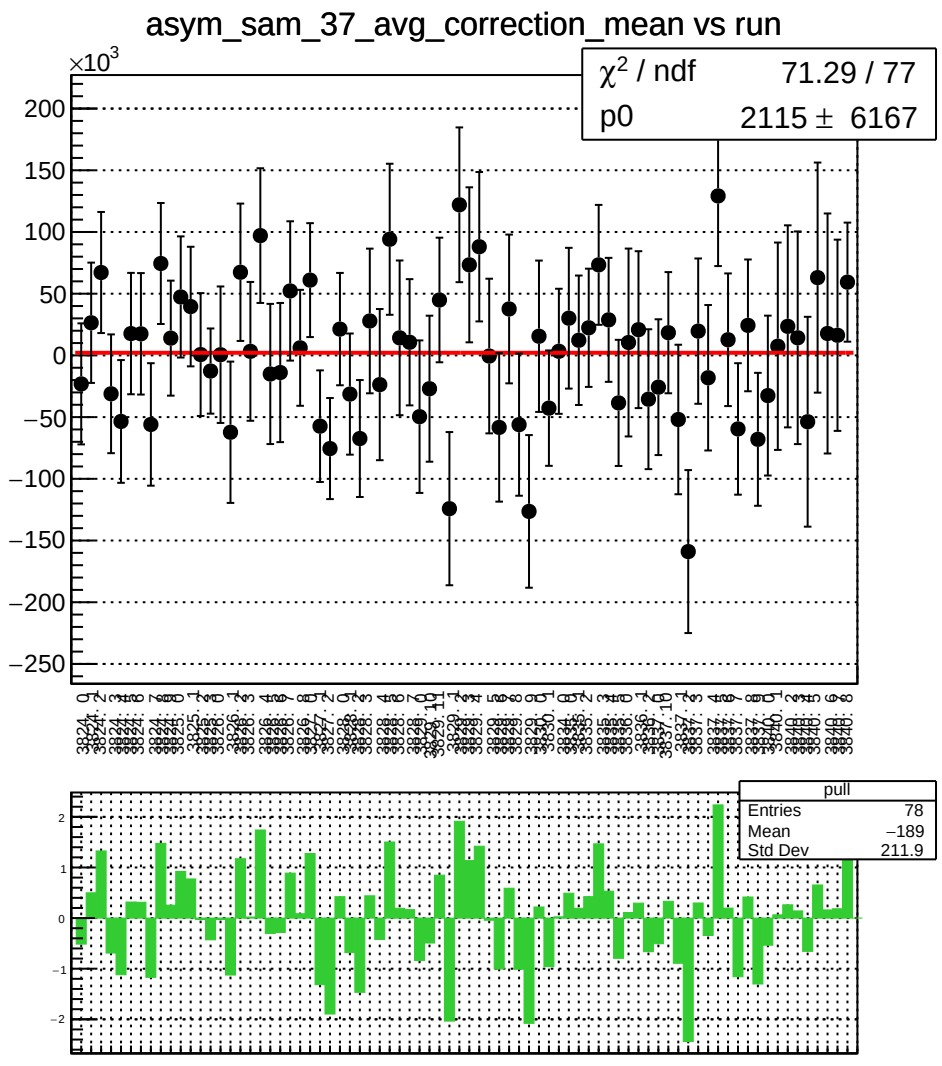

pull1D
Entries 78
Mean 0.00299
Std Dev 0.919
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

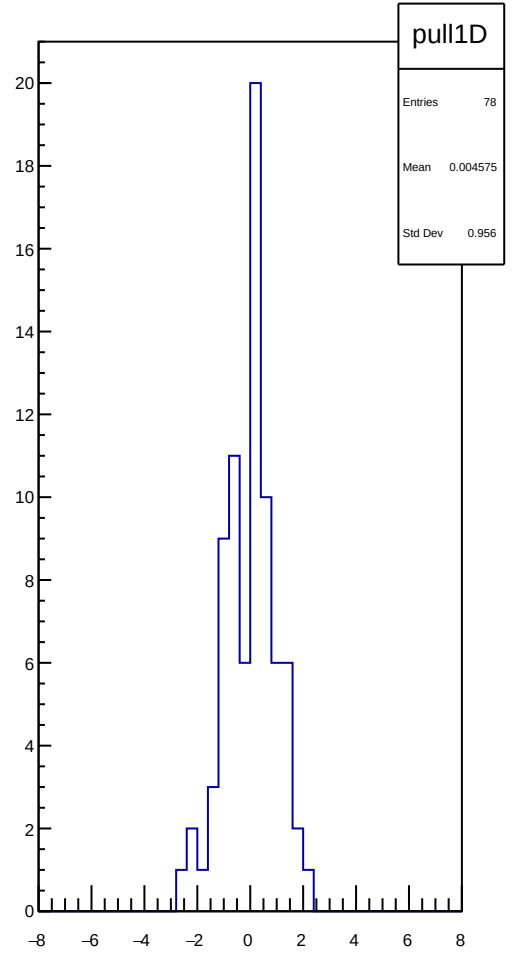

asym_sam_26_avg_correction_rms vs run
χ² / ndf 4.41e+04 / 77
p0 2774 ± 2.301
6000
5500
5000
4500
4000
3500
3000
2500
2000

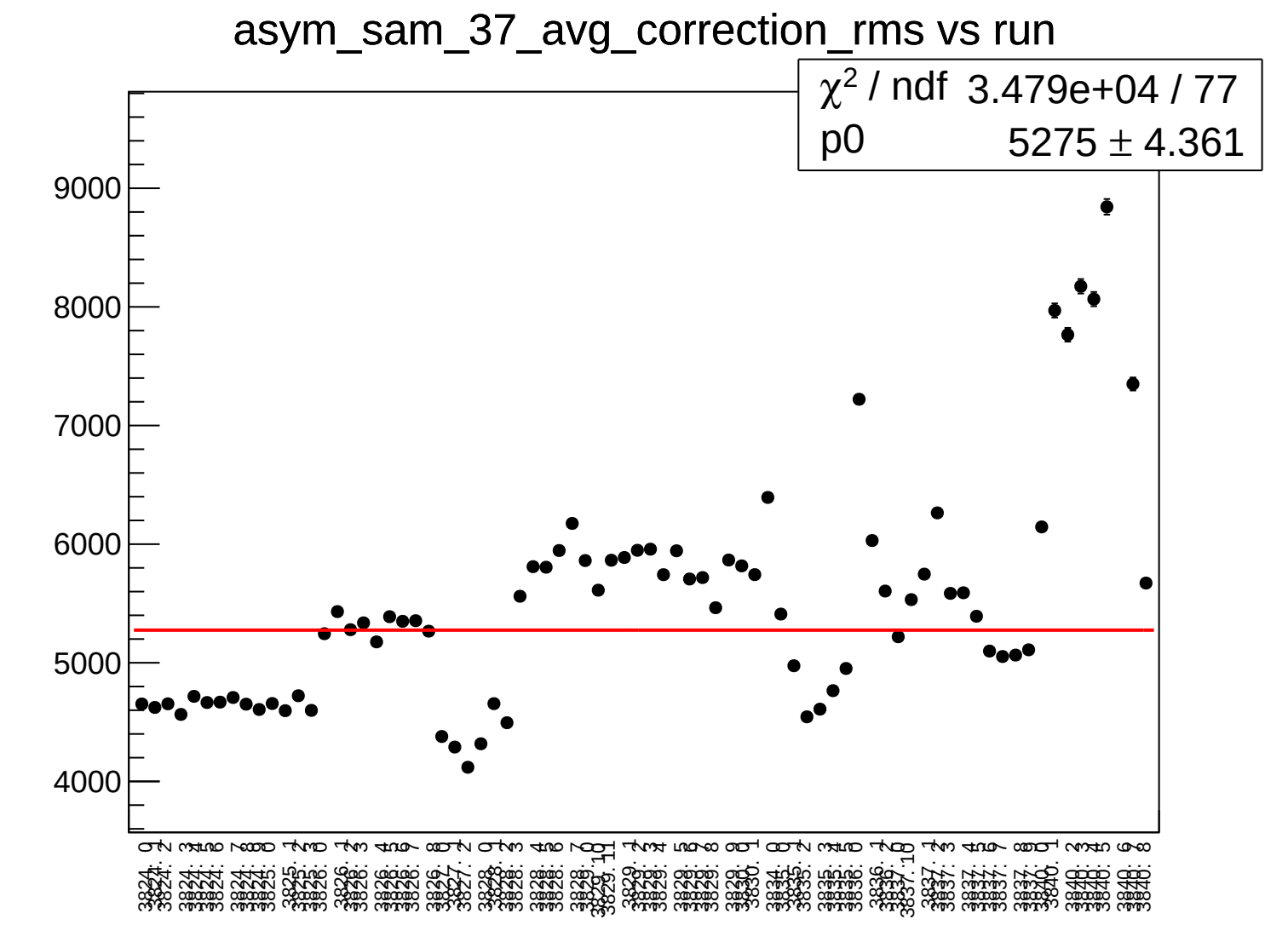

reg_asym_sam_37_avg_mean vs run
χ² / ndf 102.3 / 77
p0 145.6 ± 522
pull
Entries 78
Mean 115.7
Std Dev 62.56

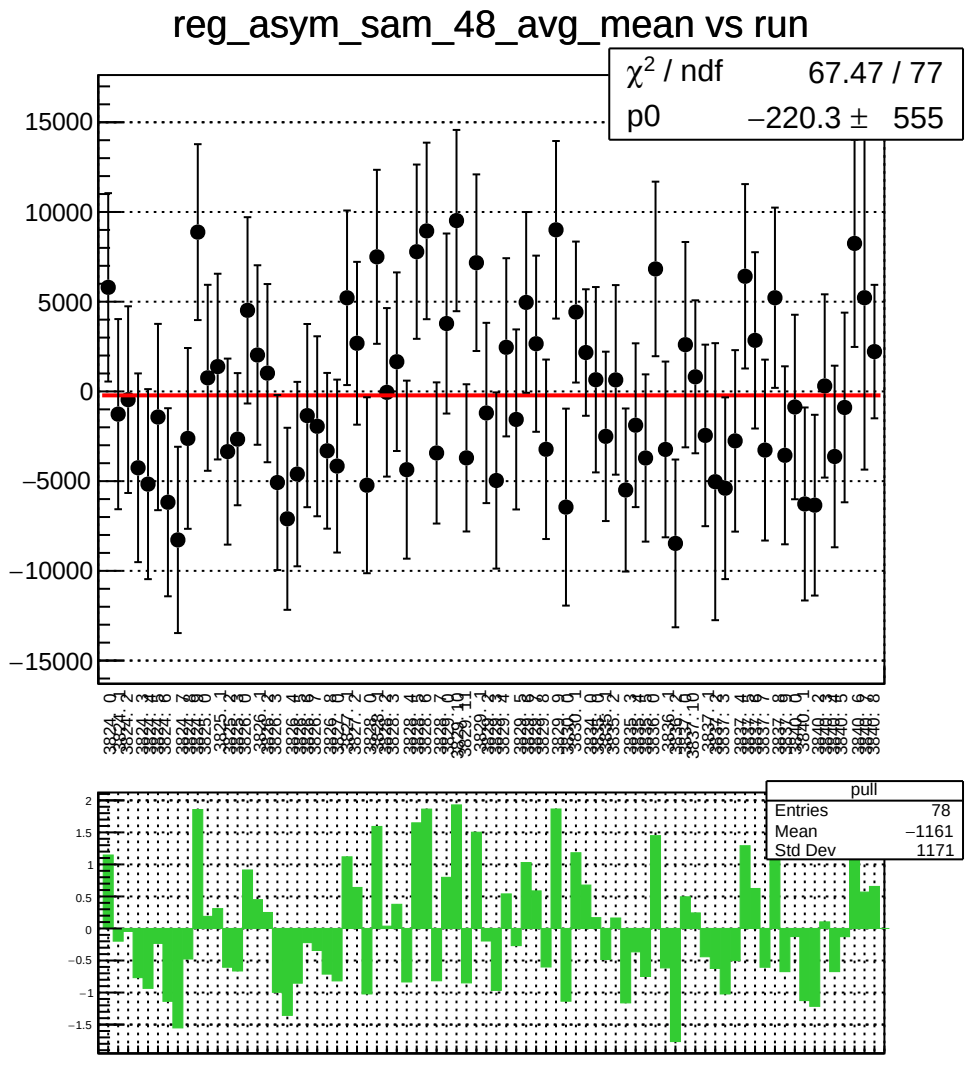

pull1D
Entries 78
Mean −0.0393
Std Dev 1.145

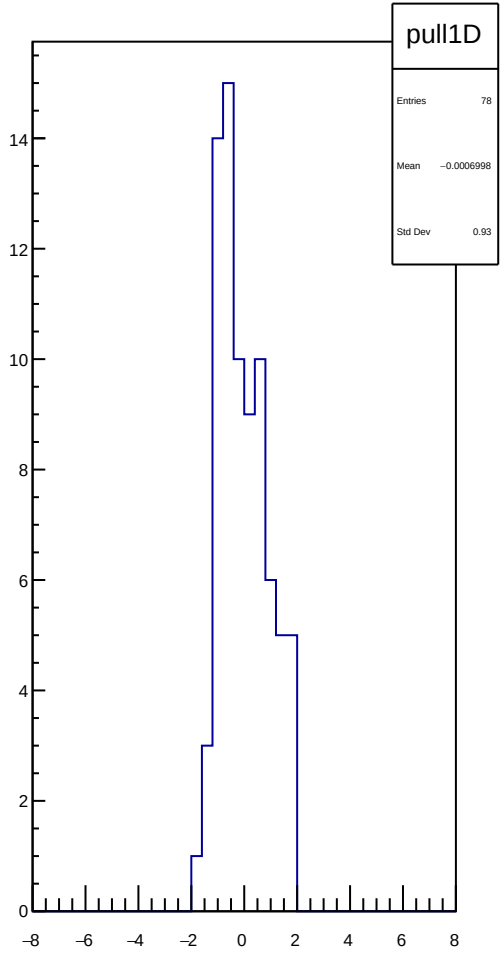

reg_asym_sam_37_avg_rms vs run
χ² / ndf 7.051e+04 / 77
p0 441 ± 0.3691
1600
1400
1200
1000
800
600
400

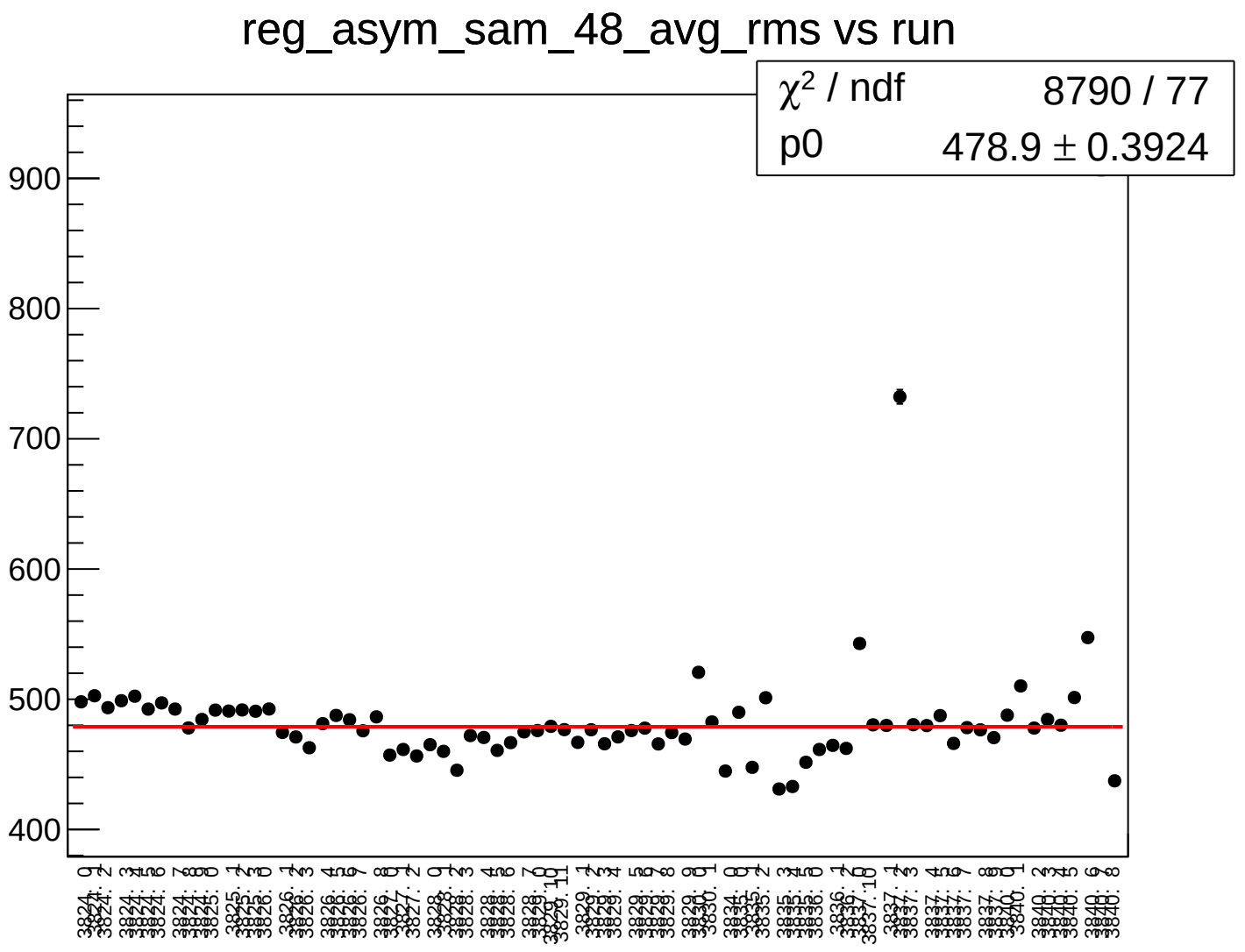

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 71.29 / 77
p0 2115 ± 6167
pull
Entries 78
Mean −189
Std Dev 211.9

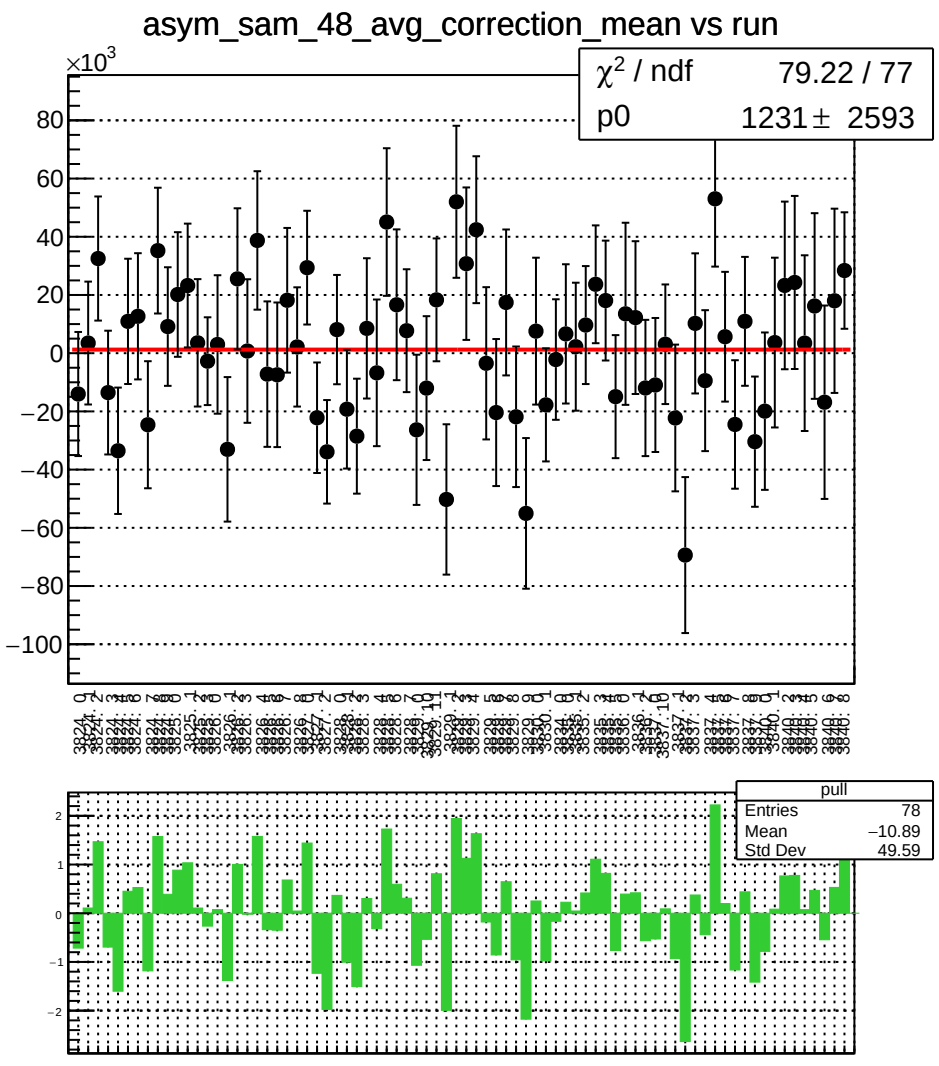

pull1D
Entries 78
Mean 0.004575
Std Dev 0.956

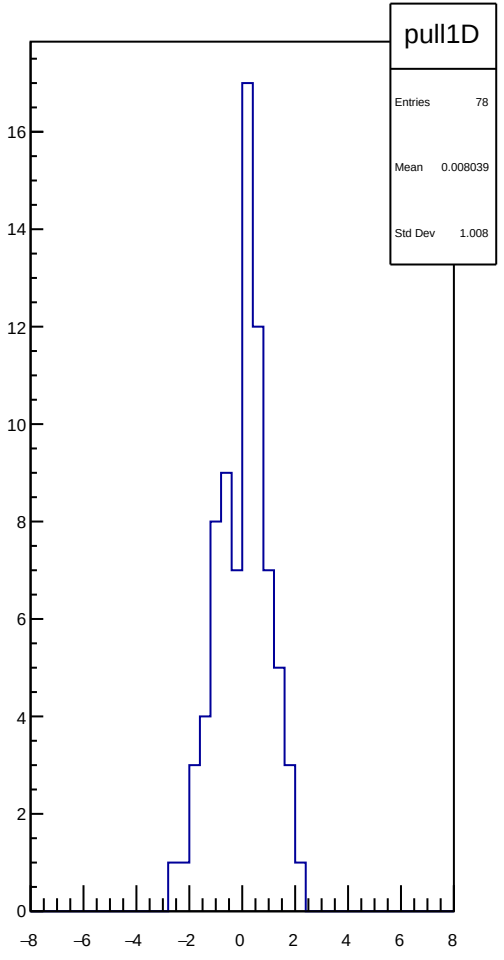

asym_sam_37_avg_correction_rms vs run
χ² / ndf 3.479e+04 / 77
p0 5275 ± 4.361
9000
8000
7000
6000
5000
4000

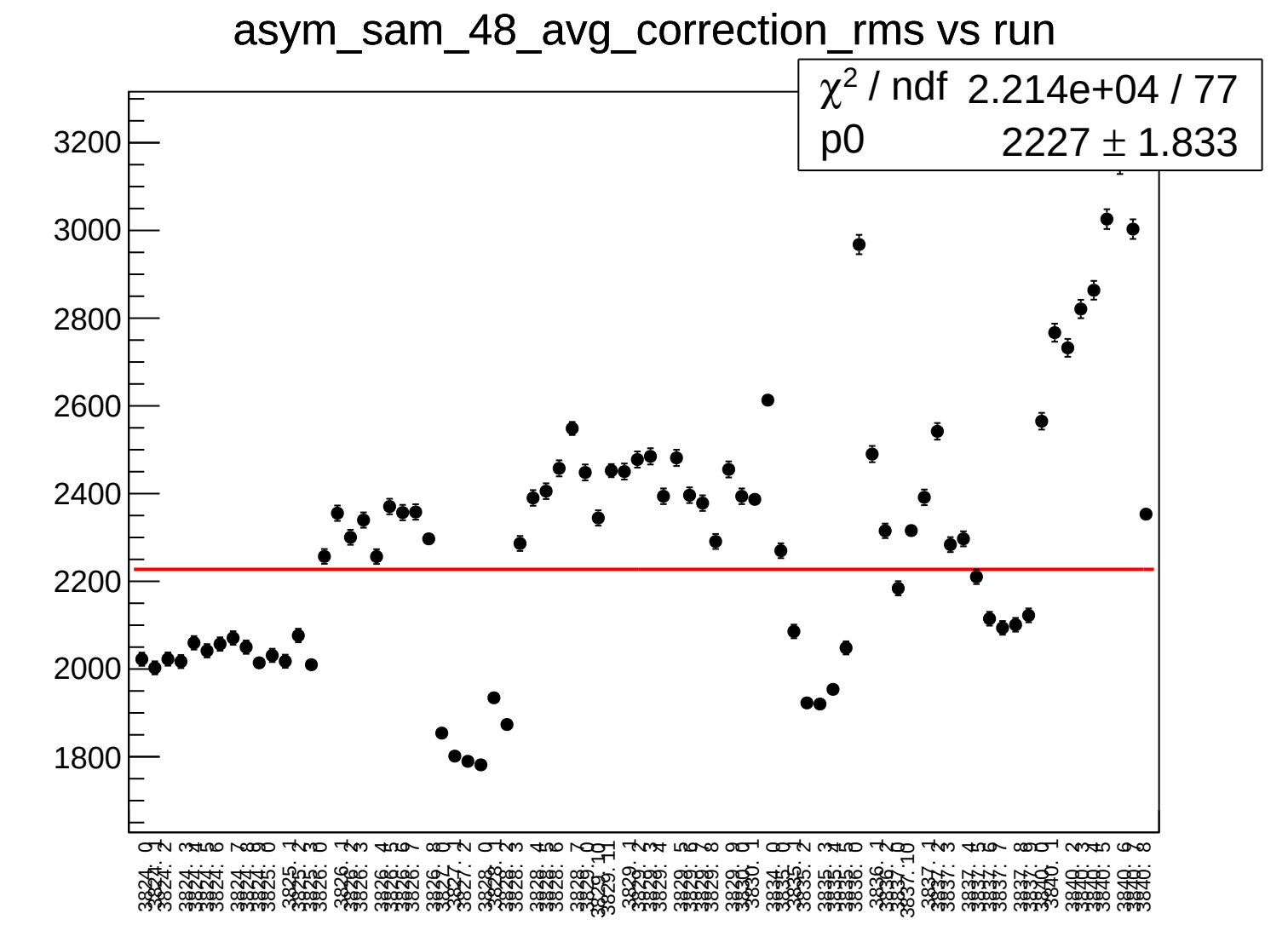

reg_asym_sam_48_avg_mean vs run
χ² / ndf 67.47 / 77
p0 −220.3 ± 555
pull
Entries 78
Mean −1161
Std Dev 1171

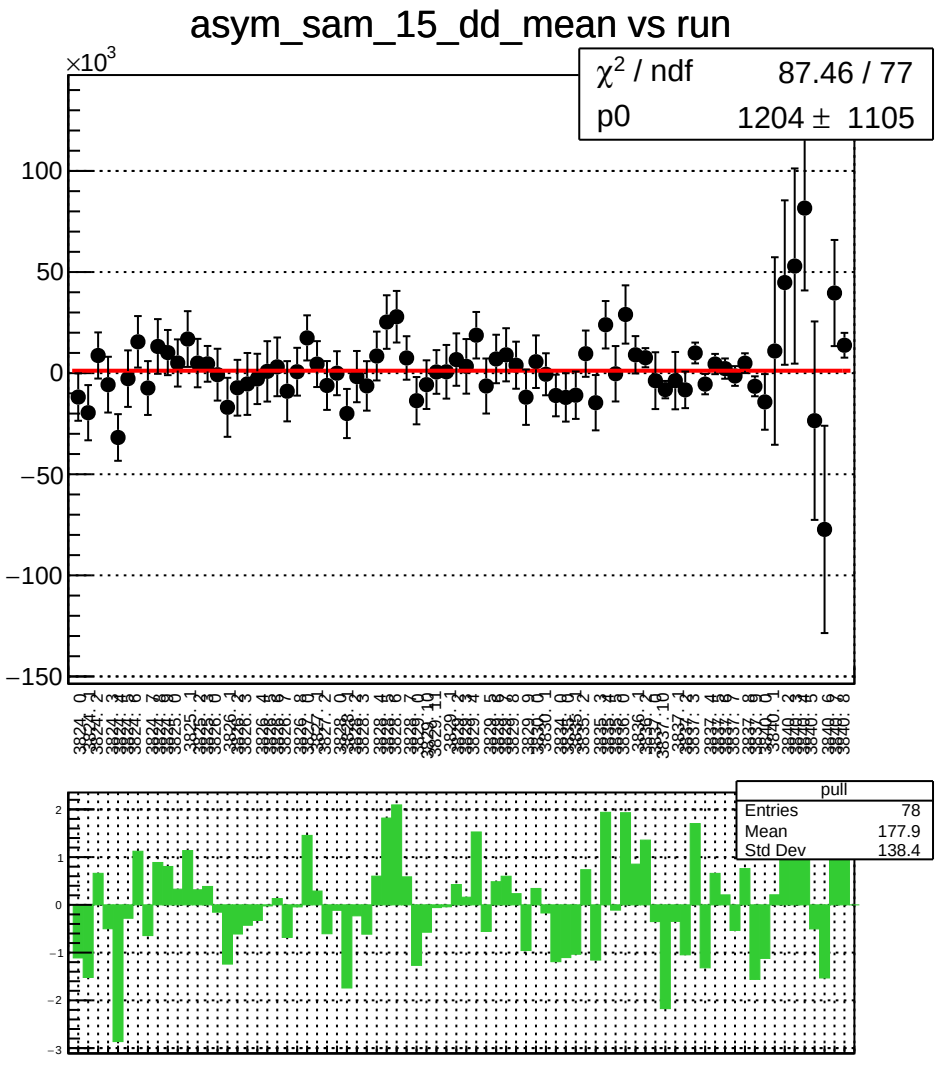

pull1D
Entries 78
Mean −0.0006998
Std Dev 0.93

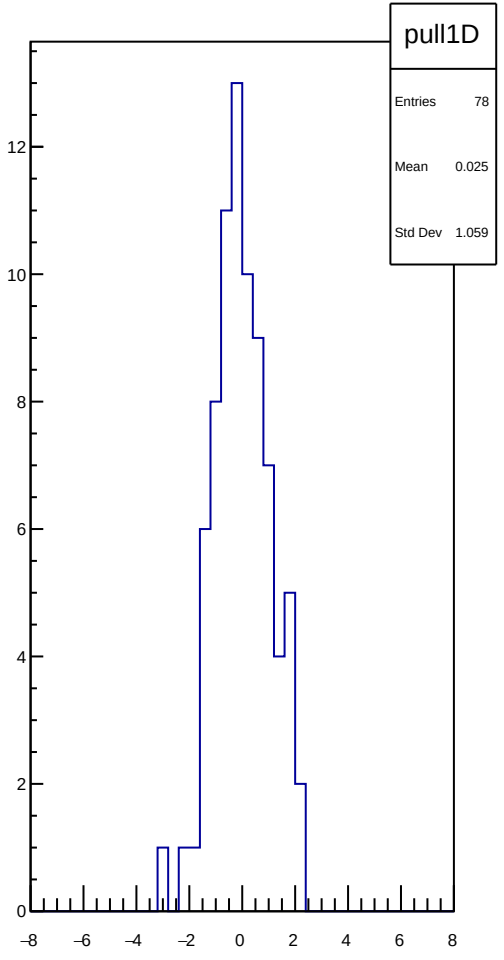

reg_asym_sam_48_avg_rms vs run
χ² / ndf 8790 / 77
p0 478.9 ± 0.3924
900
800
700
600
500
400

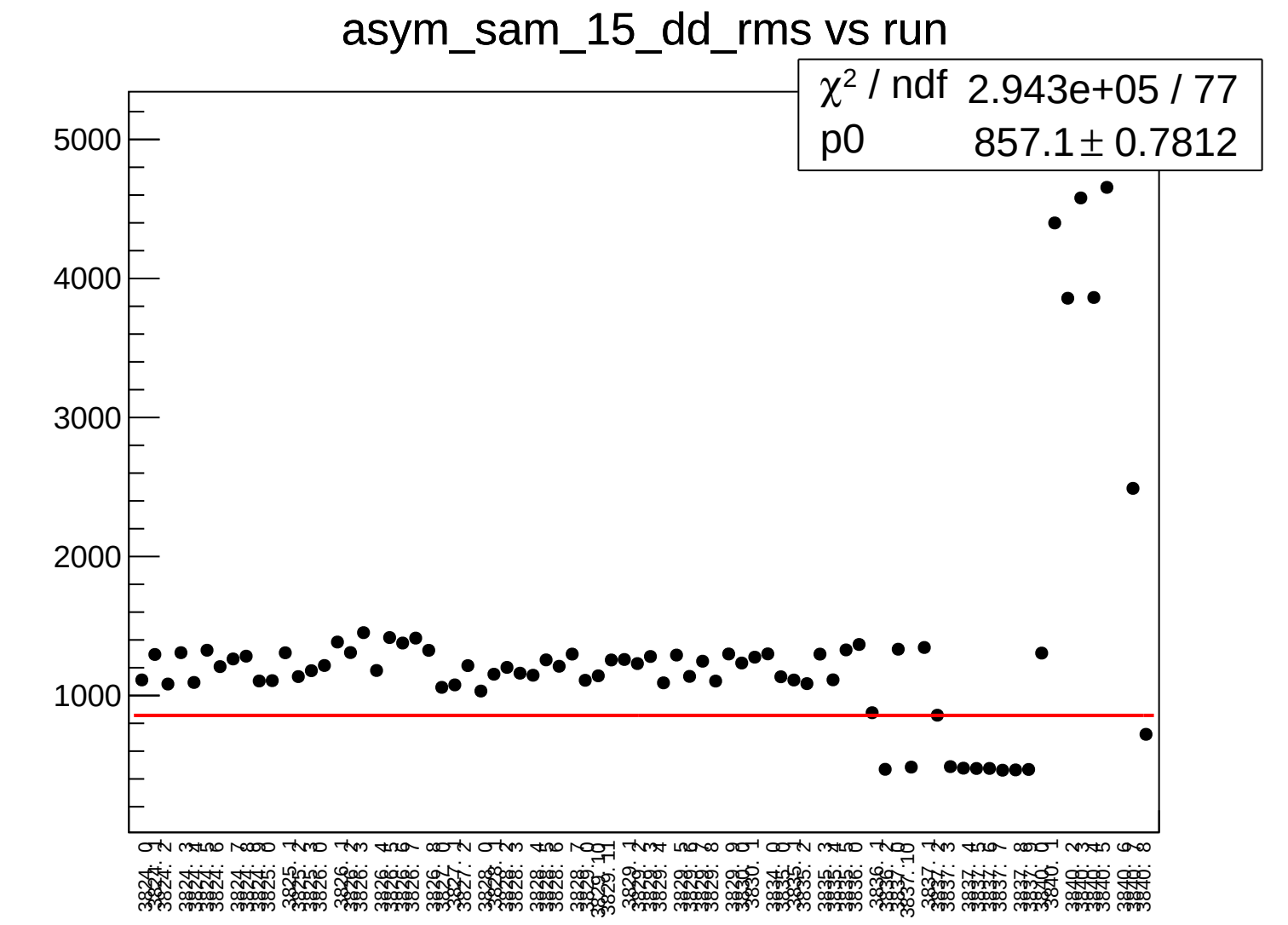

asym_sam_48_avg_correction_mean vs run
χ² / ndf 79.22 / 77
p0 1231 ± 2593
pull
Entries 78
Mean −10.89
Std Dev 49.59

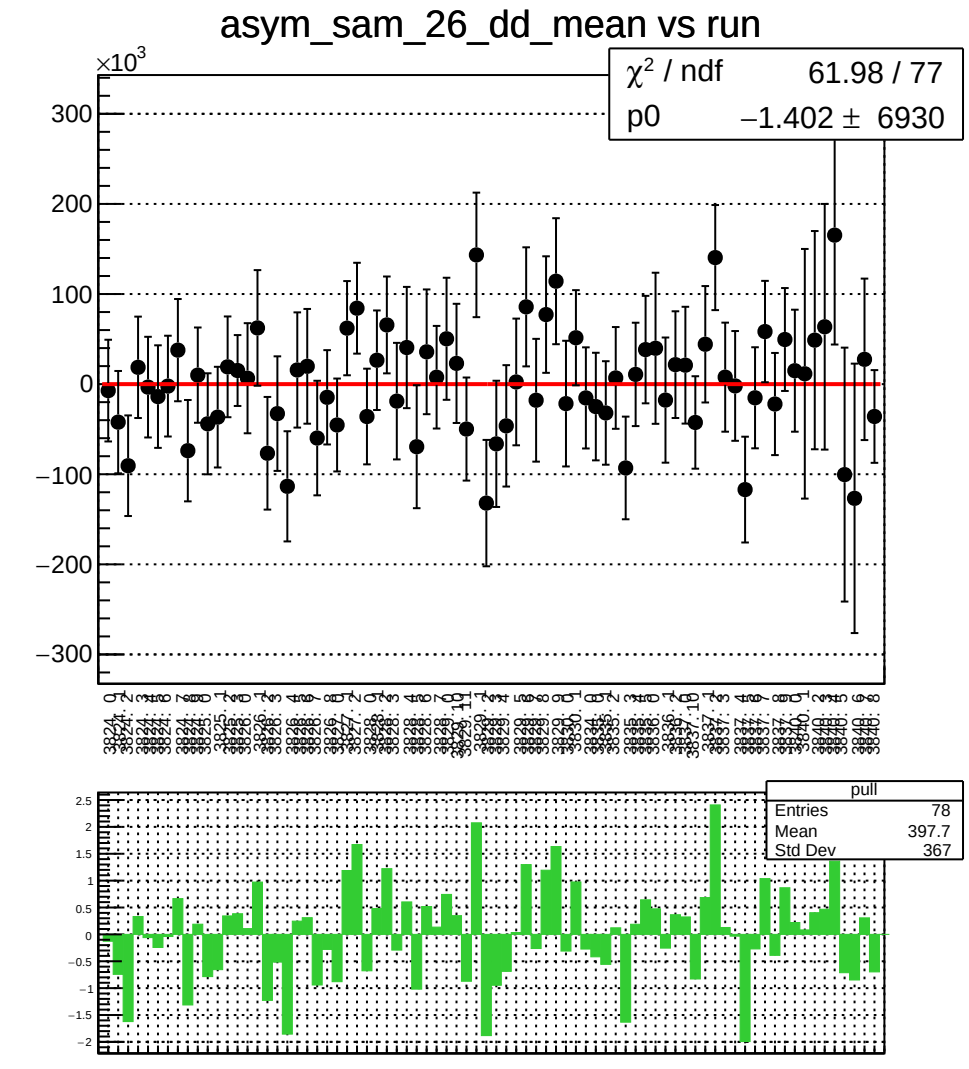

pull1D
Entries 78
Mean 0.008039
Std Dev 1.008

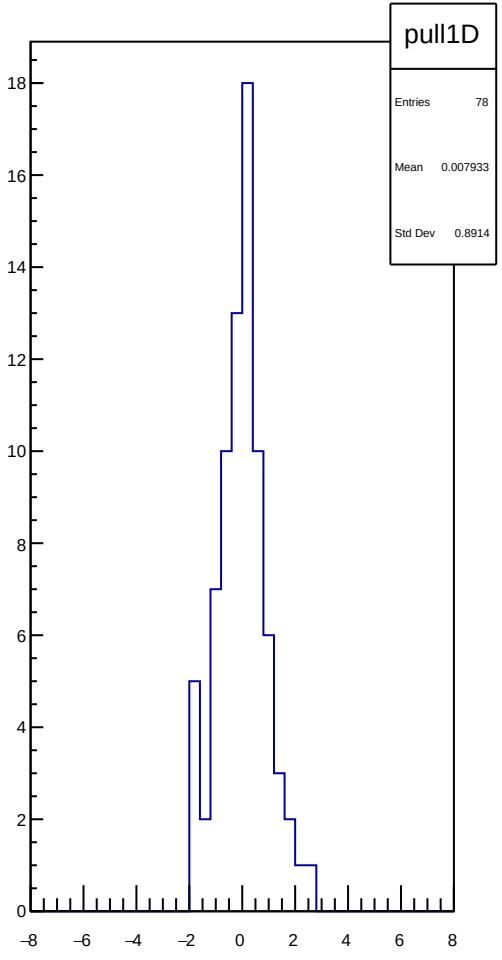

asym_sam_48_avg_correction_rms vs run
χ² / ndf 2.214e+04 / 77
p0 2227 ± 1.833
3200
3000
2800
2600
2400
2200
2000
1800

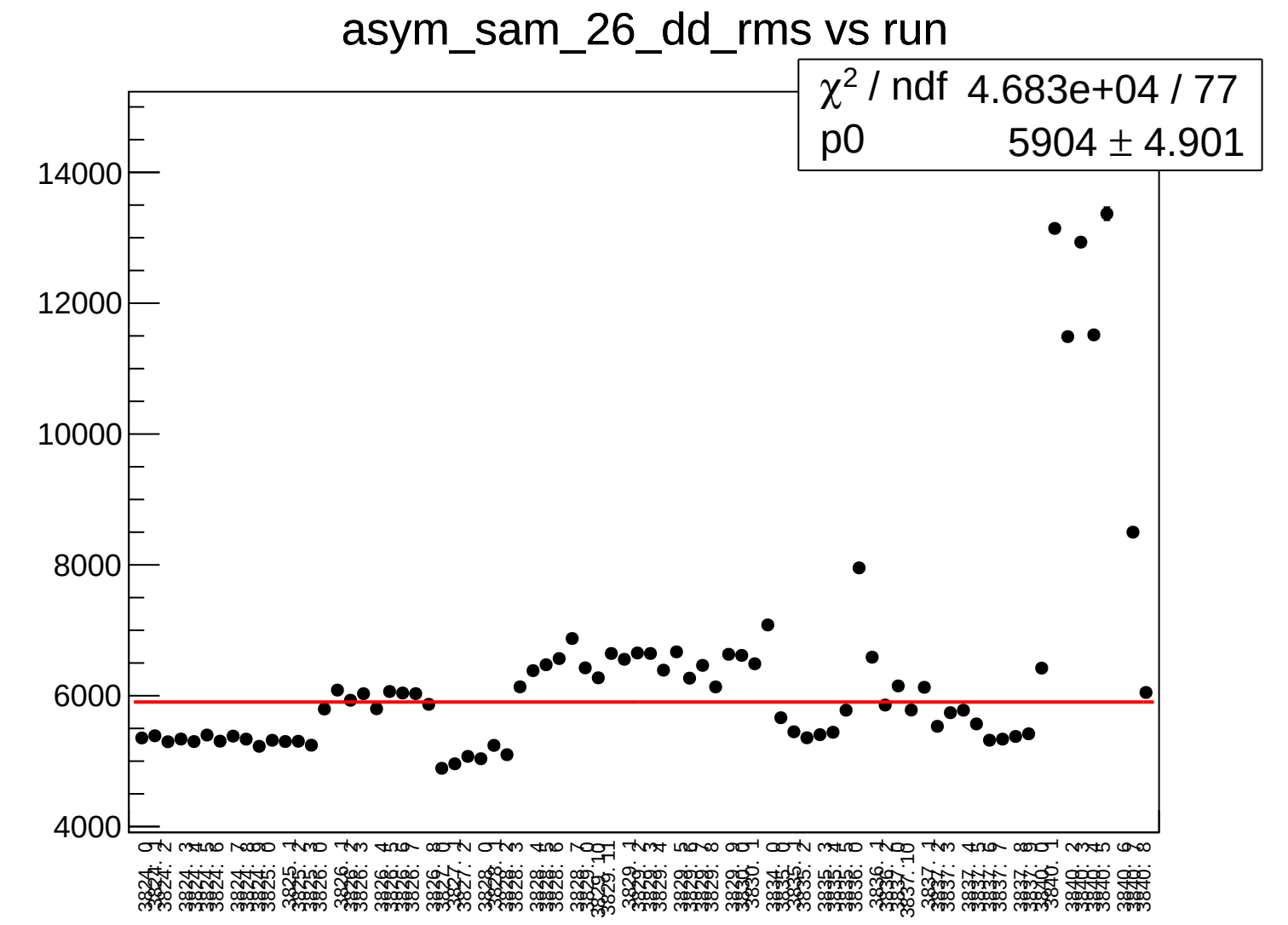

asym_sam_15_dd_mean vs run
×10^3
χ^2 / ndf 87.46 / 77
p0 1204 ± 1105
100
50
0
−50
−100
−150
pull
Entries 78
Mean 177.9
Std Dev 138.4
2
1
0
−1
−2
−3

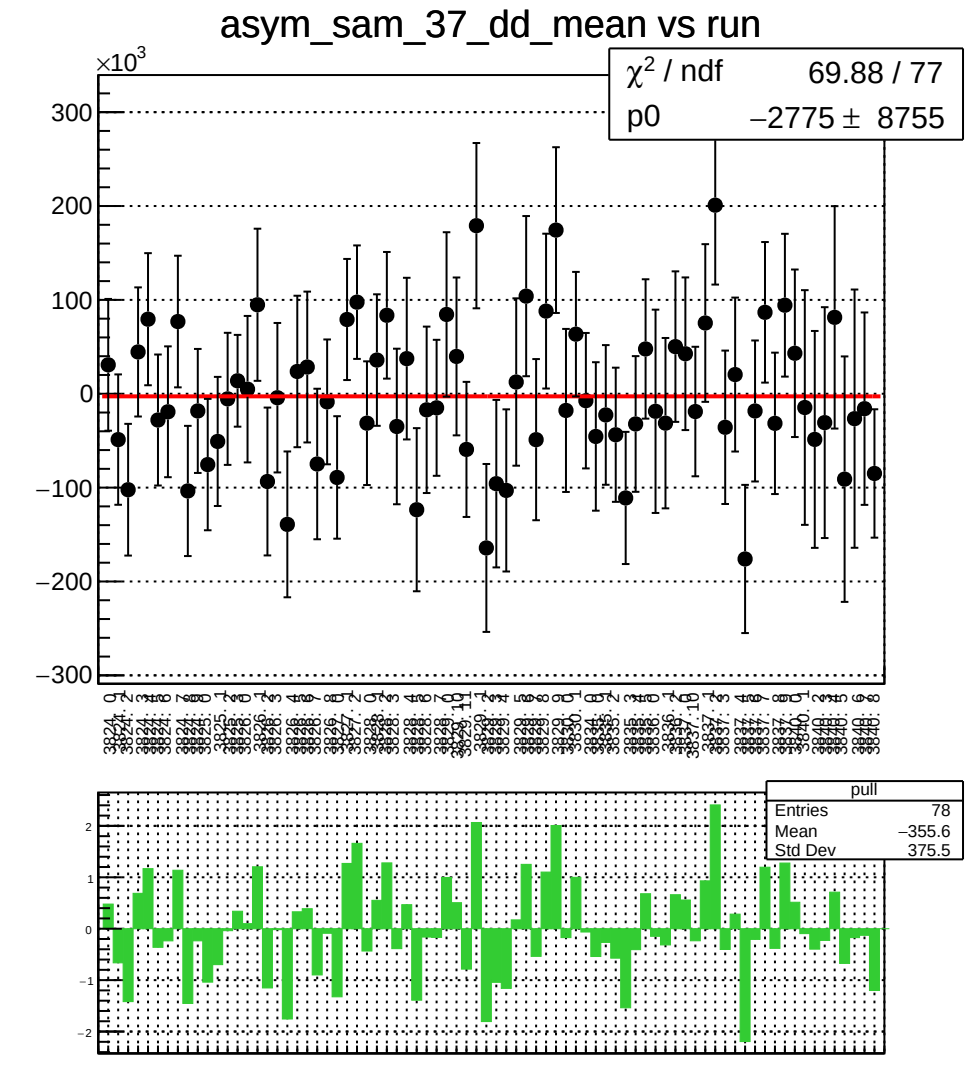

pull1D
Entries 78
Mean 0.025
Std Dev 1.059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

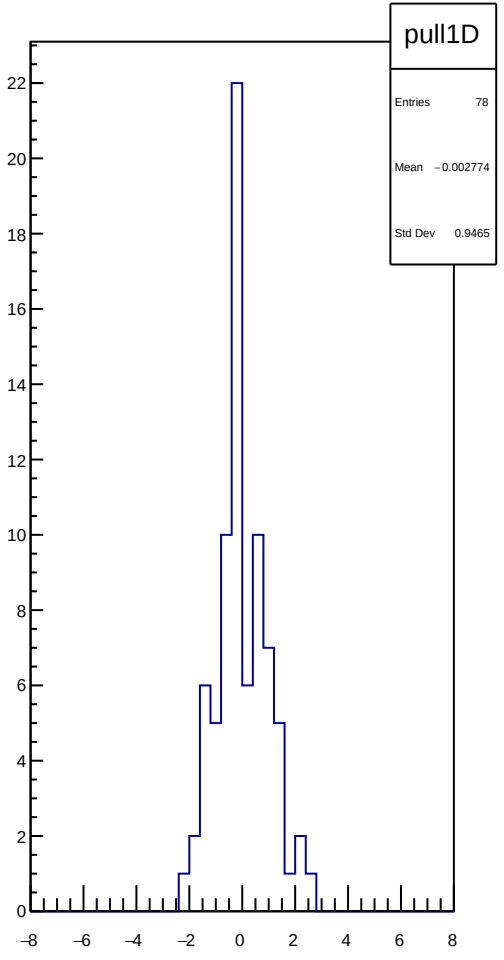

asym_sam_15_dd_rms vs run
χ² / ndf 2.943e+05 / 77
p0 857.1 ± 0.7812
5000
4000
3000
2000
1000

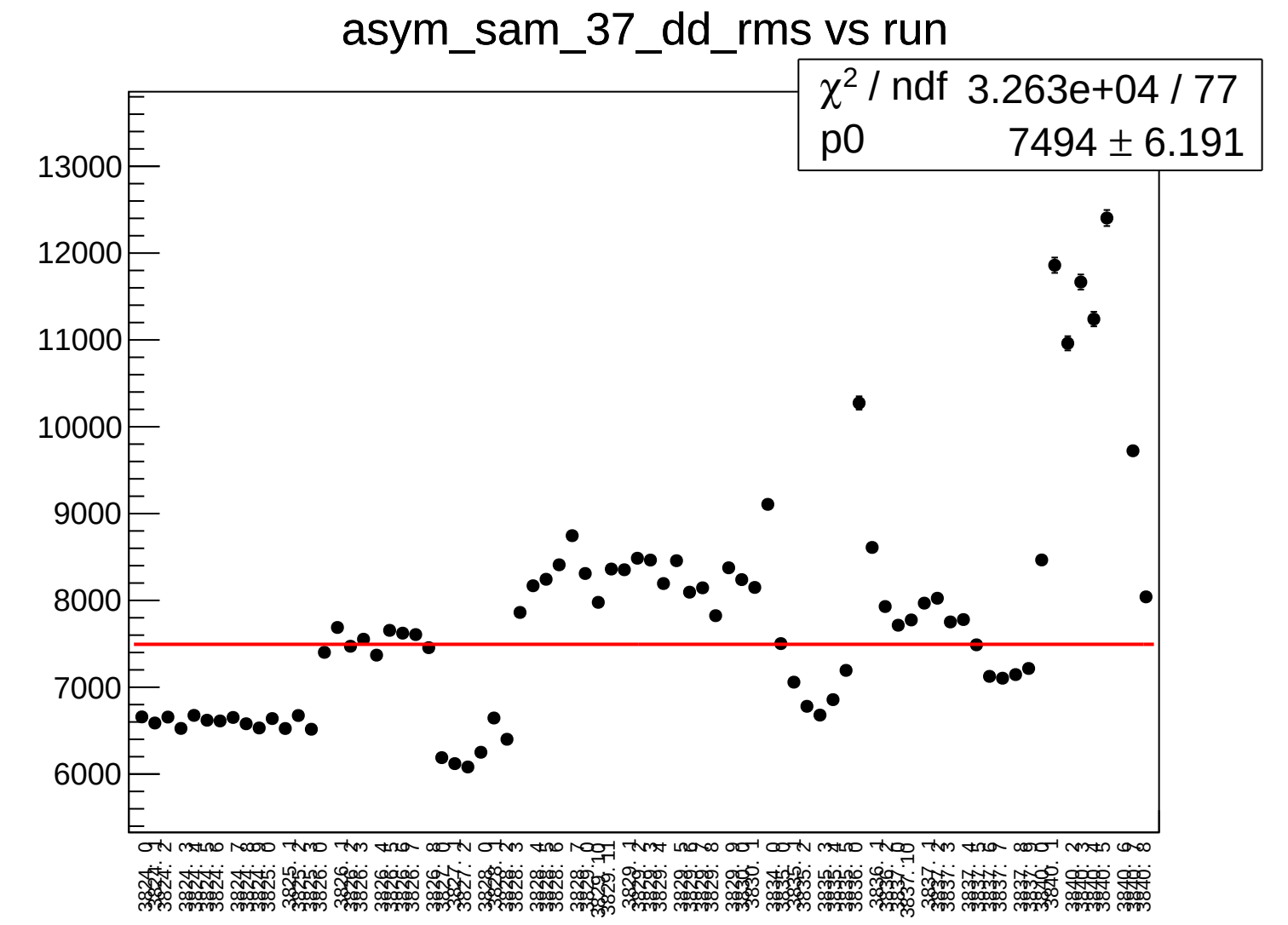

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 61.98 / 77
p0 −1.402 ± 6930
pull
Entries 78
Mean 397.7
Std Dev 367

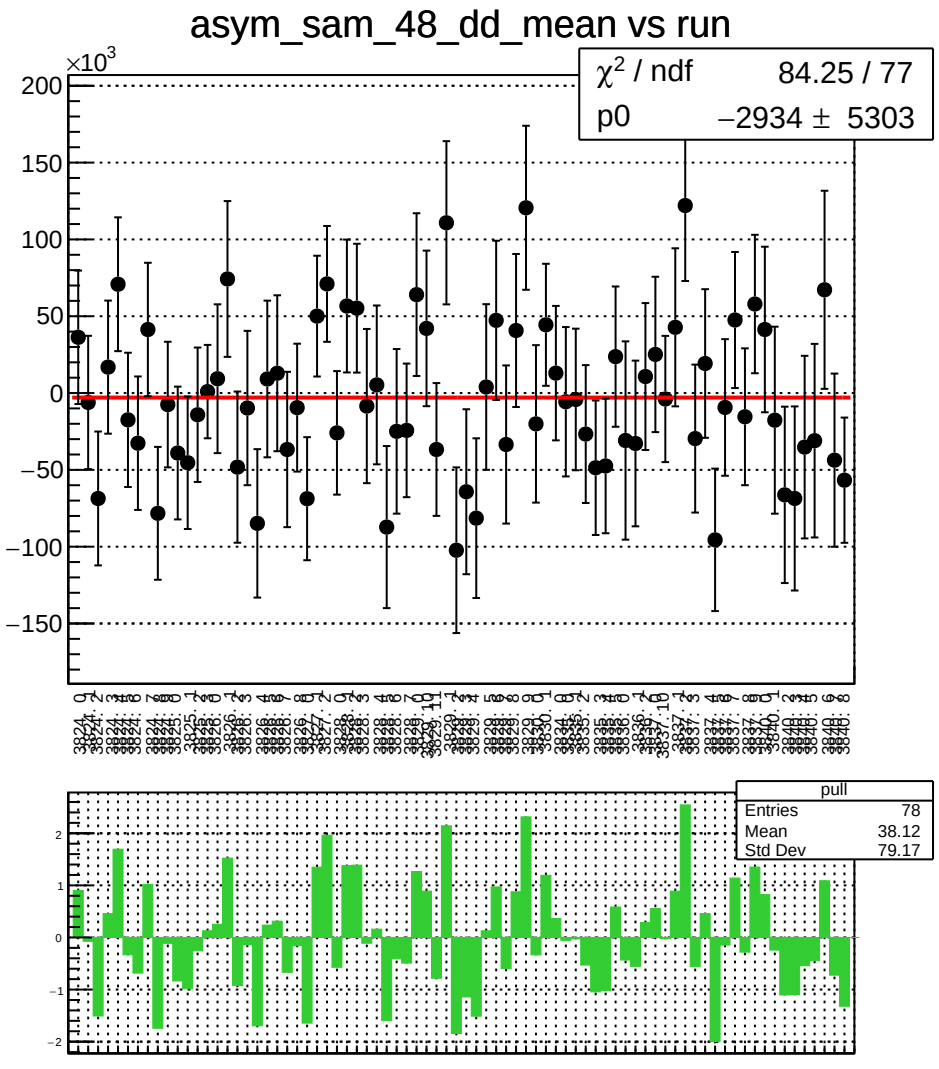

pull1D
Entries 78
Mean 0.007933
Std Dev 0.8914

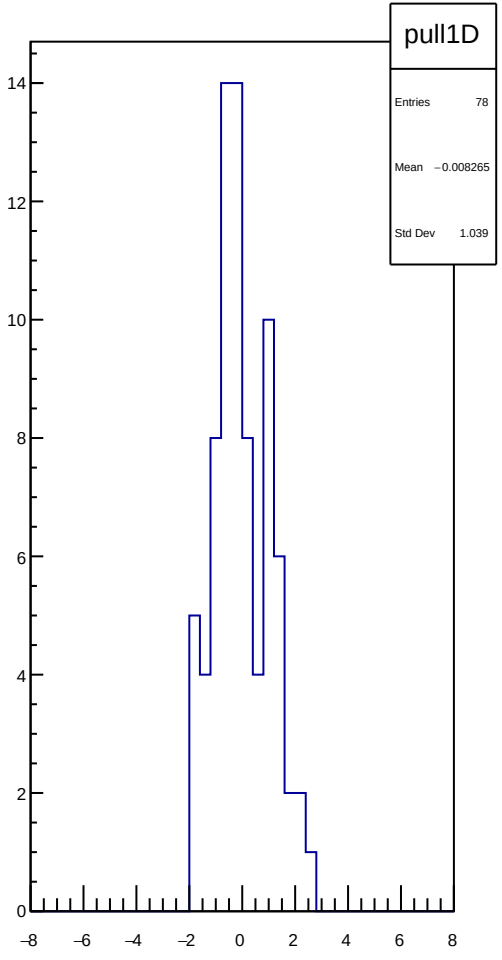

asym_sam_26_dd_rms vs run
χ² / ndf 4.683e+04 / 77
p0 5904 ± 4.901
14000
12000
10000
8000
6000
4000

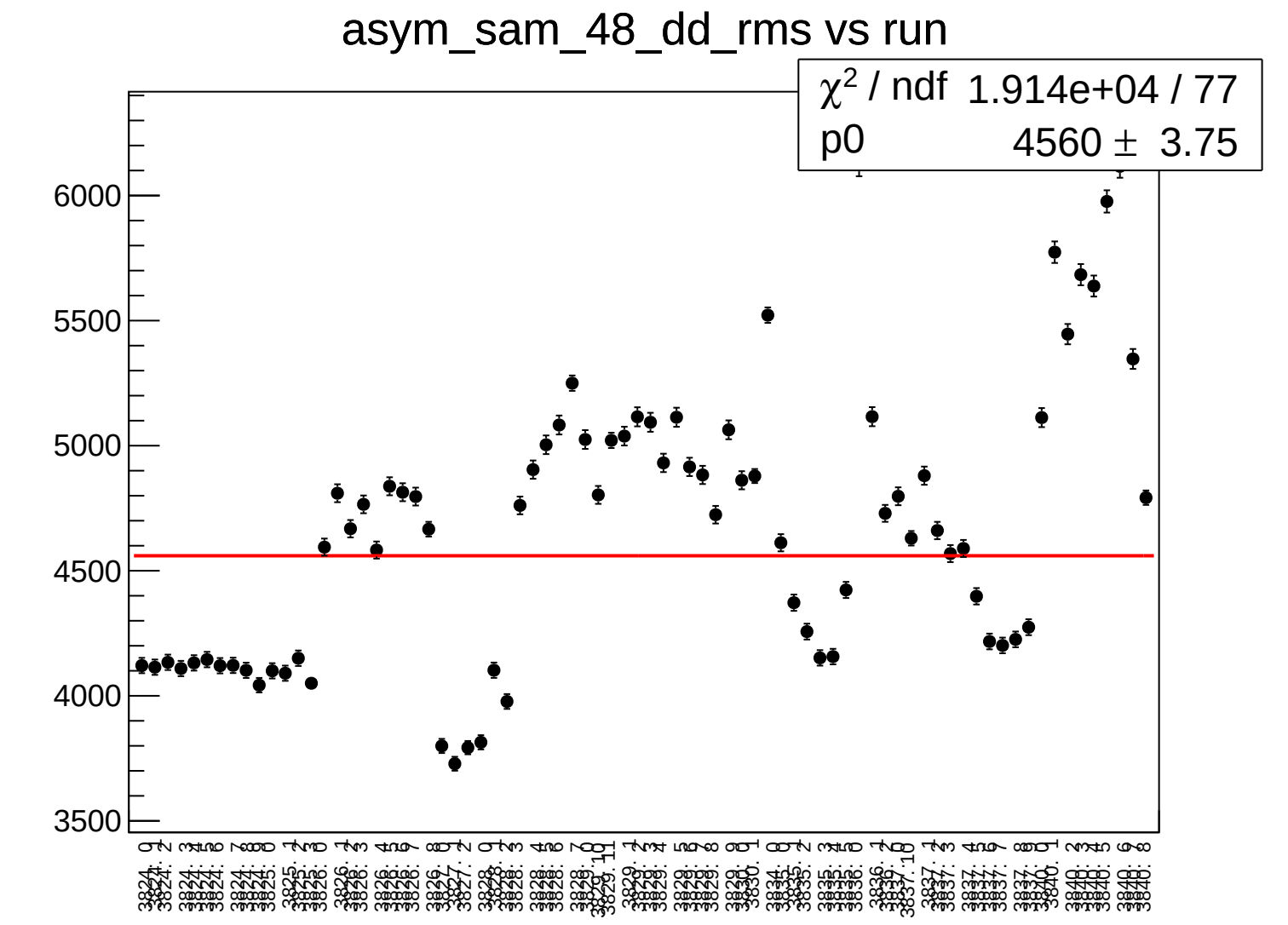

asym_sam_37_dd_mean vs run
χ² / ndf 69.88 / 77
p0 −2775 ± 8755
×10³
pull
Entries 78
Mean −355.6
Std Dev 375.5

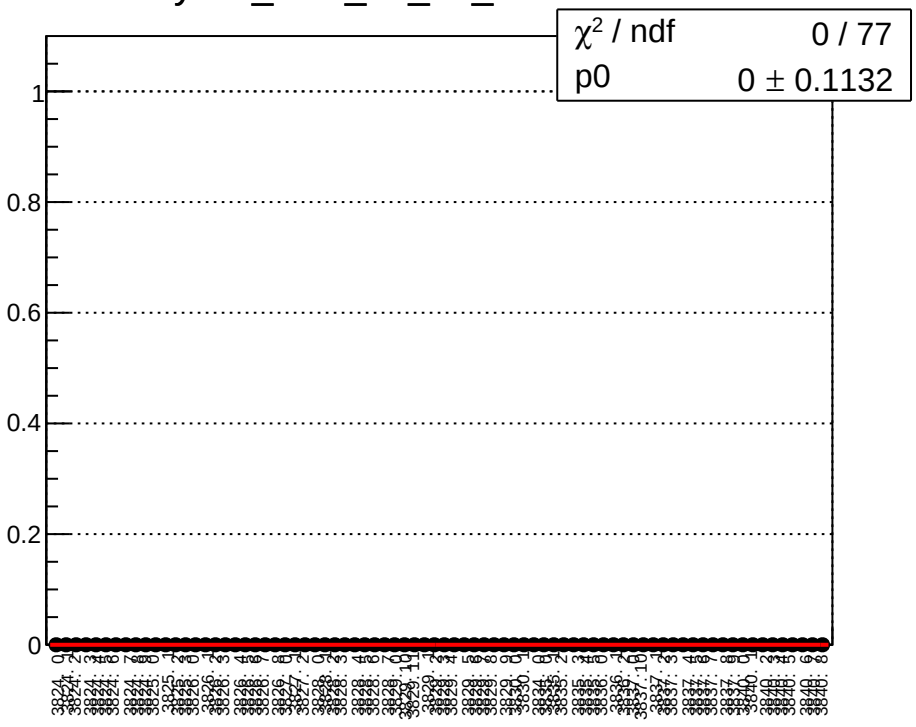

pull1D
Entries 78
Mean −0.002774
Std Dev 0.9465

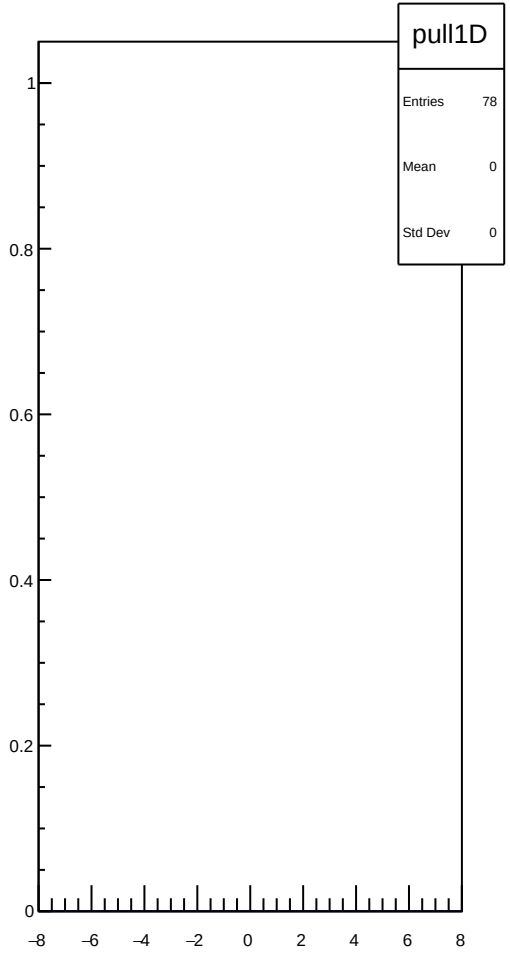

asym_sam_37_dd_rms vs run
χ² / ndf 3.263e+04 / 77
p0 7494 ± 6.191
13000
12000
11000
10000
9000
8000
7000
6000

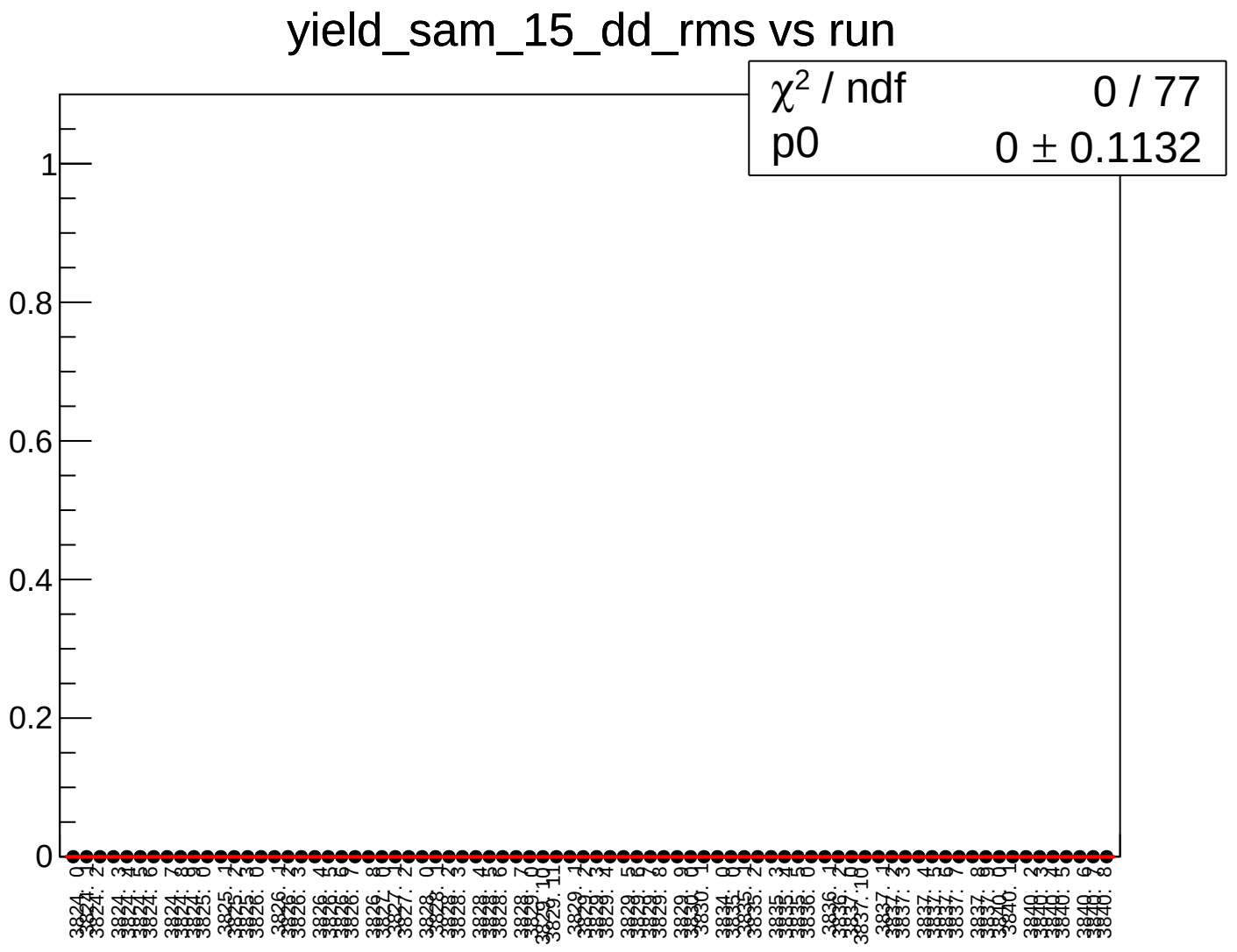

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 84.25 / 77
p0 −2934 ± 5303
pull
Entries 78
Mean 38.12
Std Dev 79.17

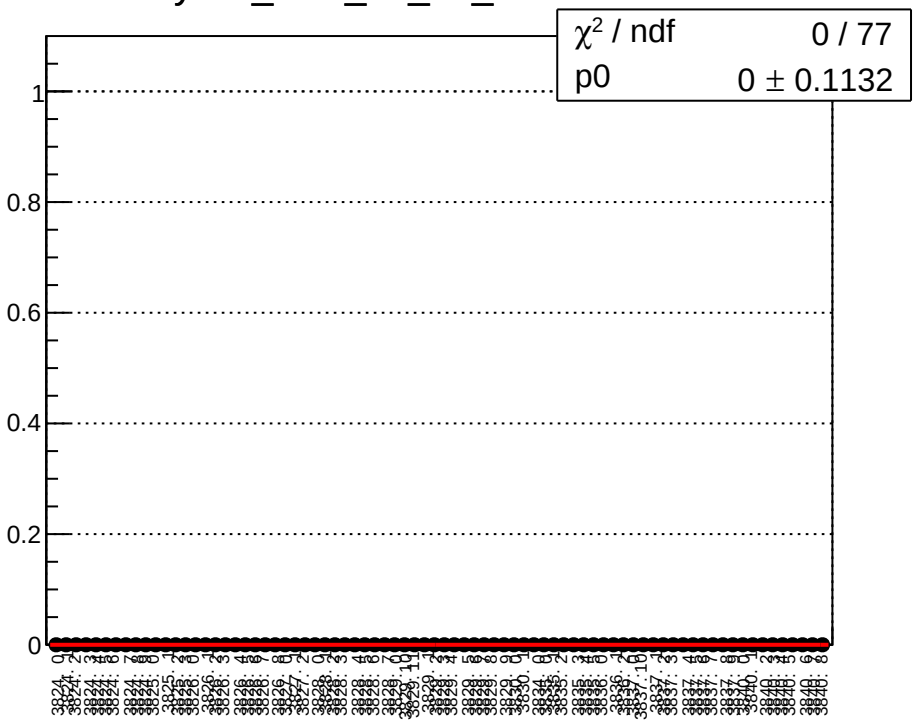

pull1D
Entries 78
Mean −0.008265
Std Dev 1.039

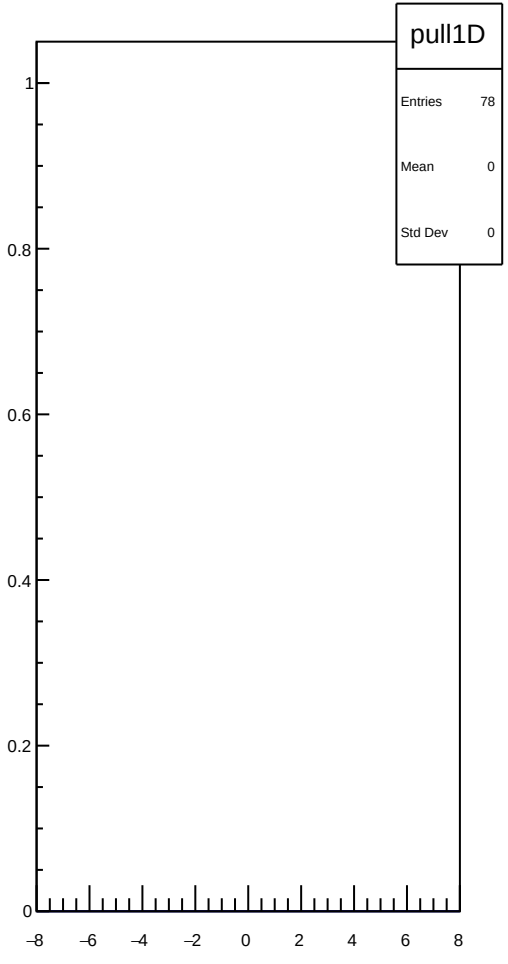

asym_sam_48_dd_rms vs run
χ² / ndf 1.914e+04 / 77
p0 4560 ± 3.75
6000
5500
5000
4500
4000
3500

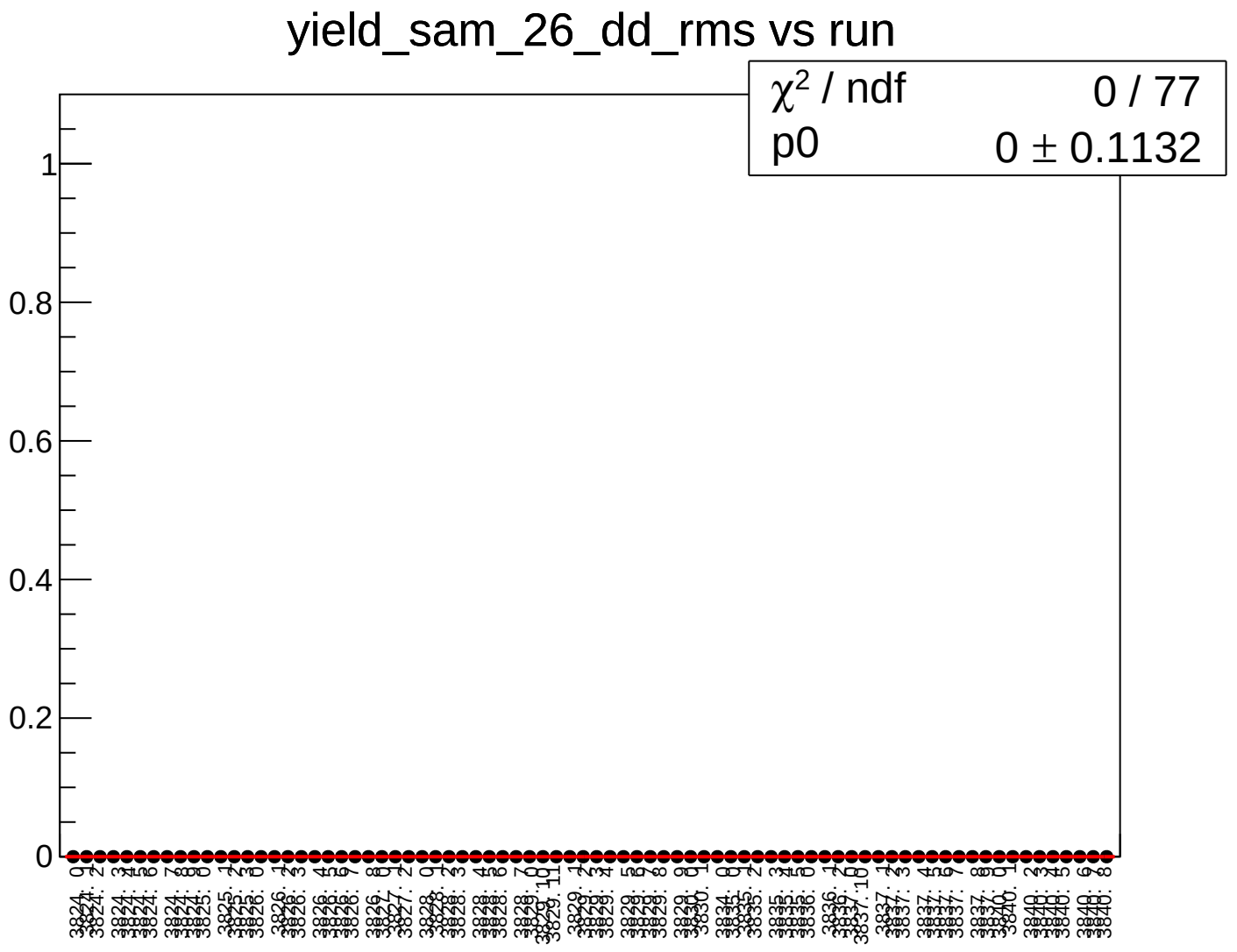

yield_sam_15_dd_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

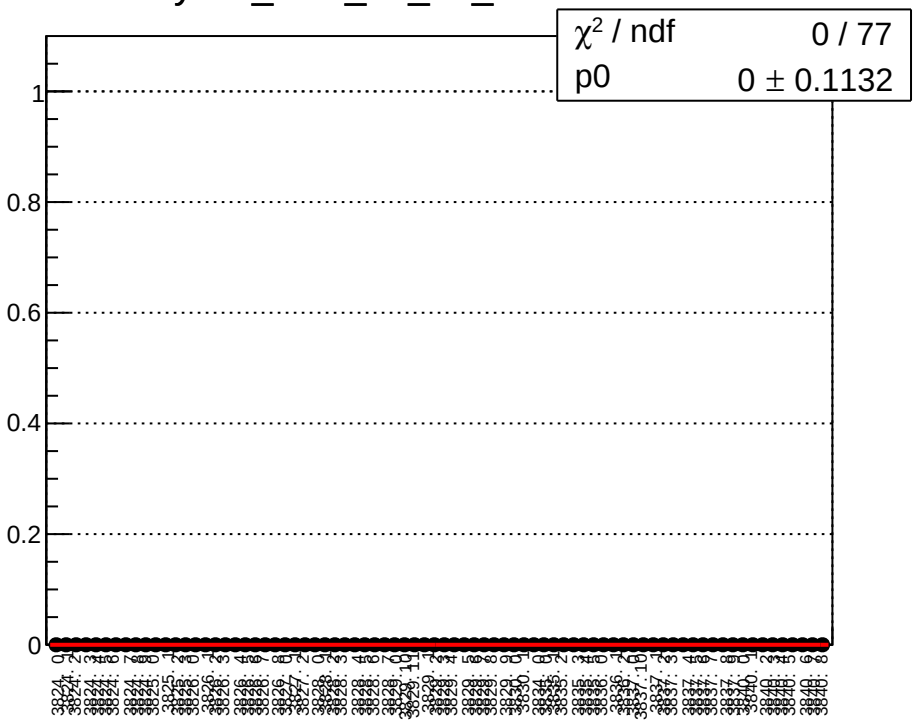

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

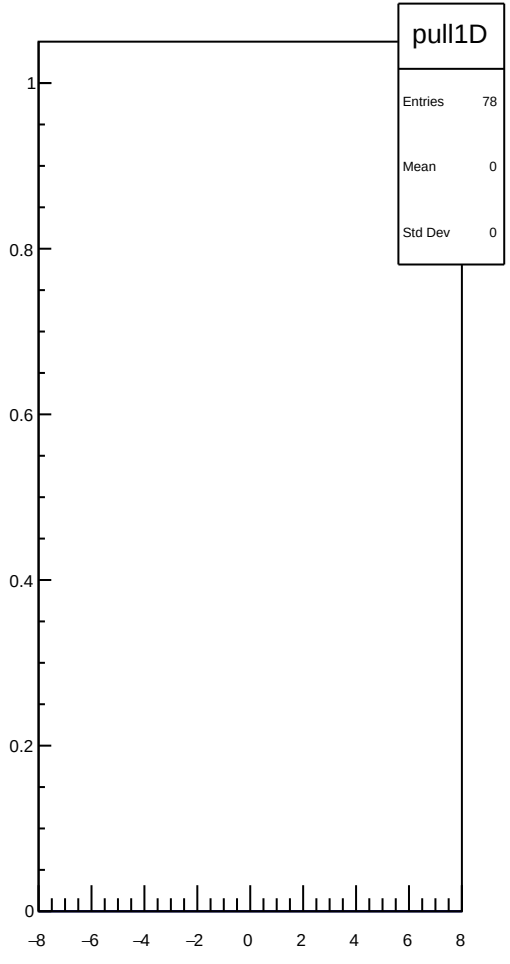

yield_sam_15_dd_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

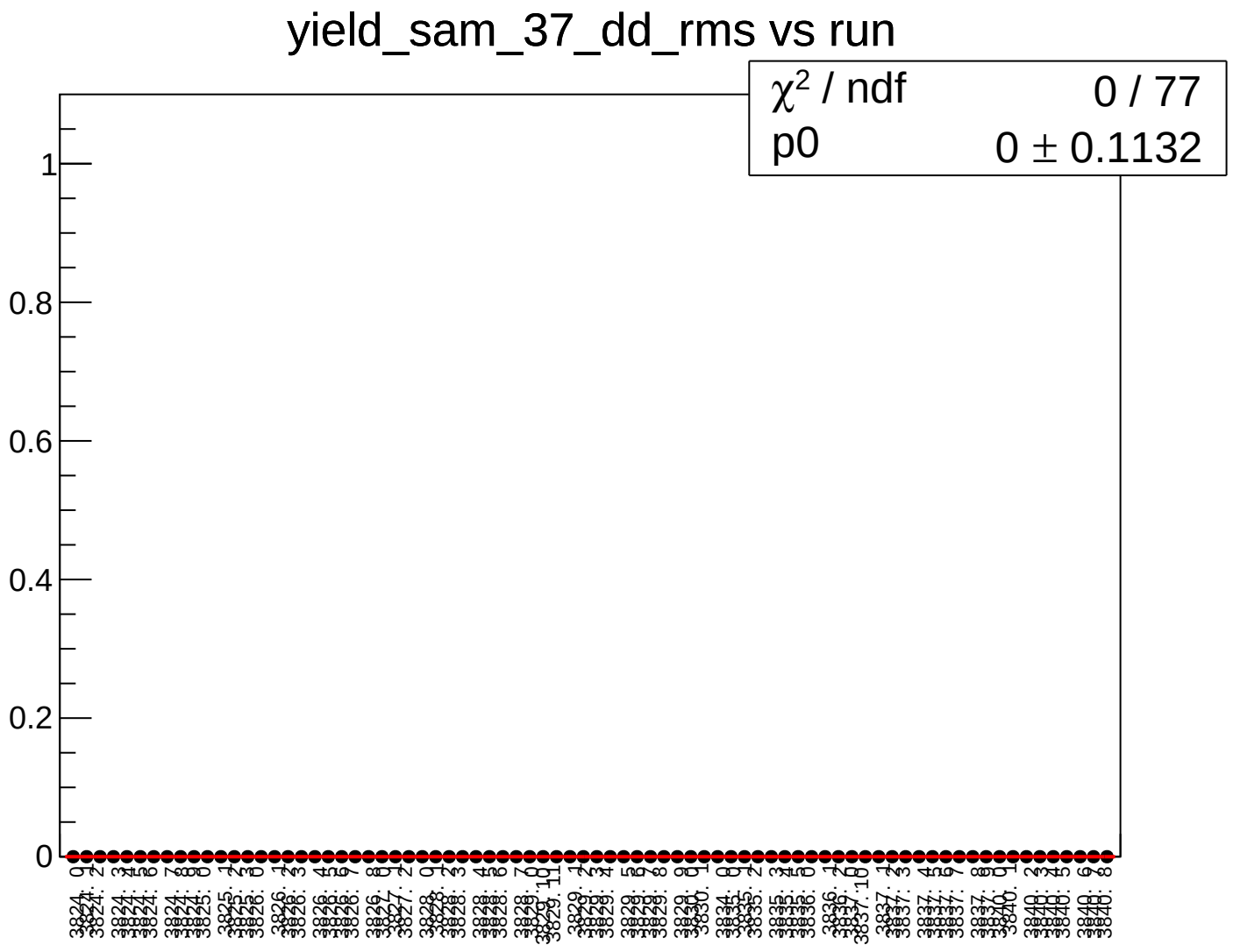

yield_sam_26_dd_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

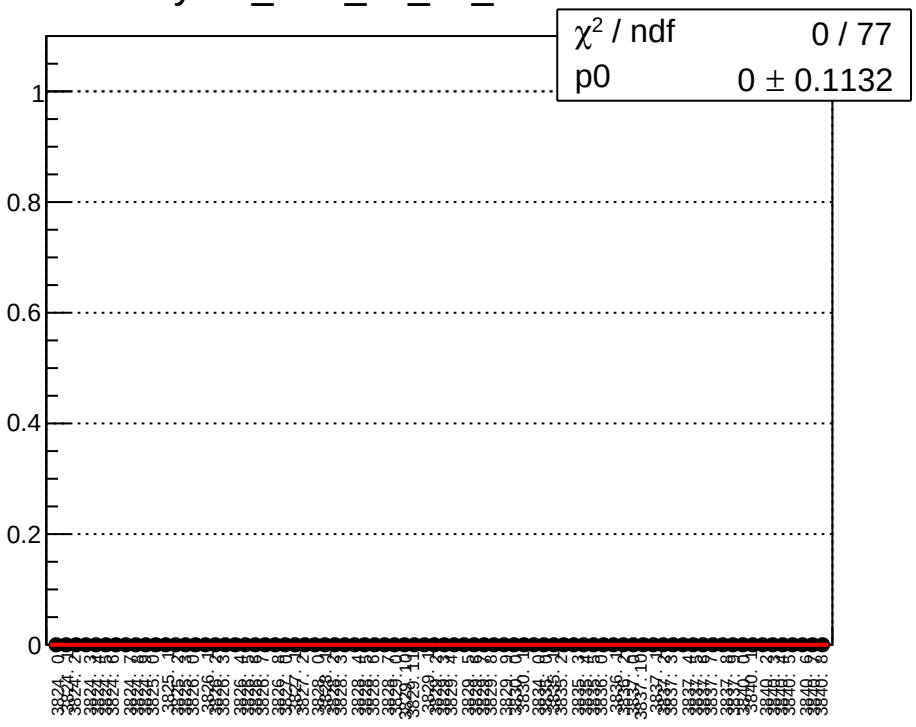

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

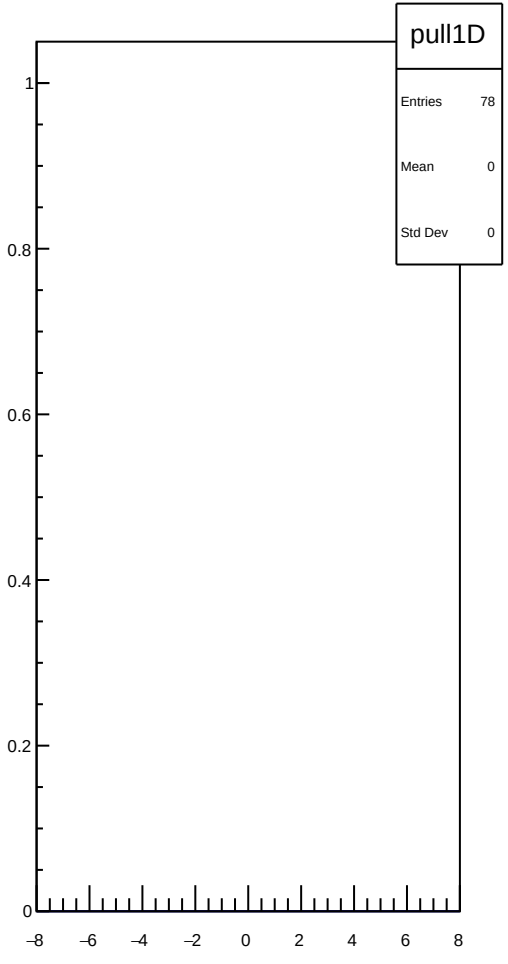

yield_sam_26_dd_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

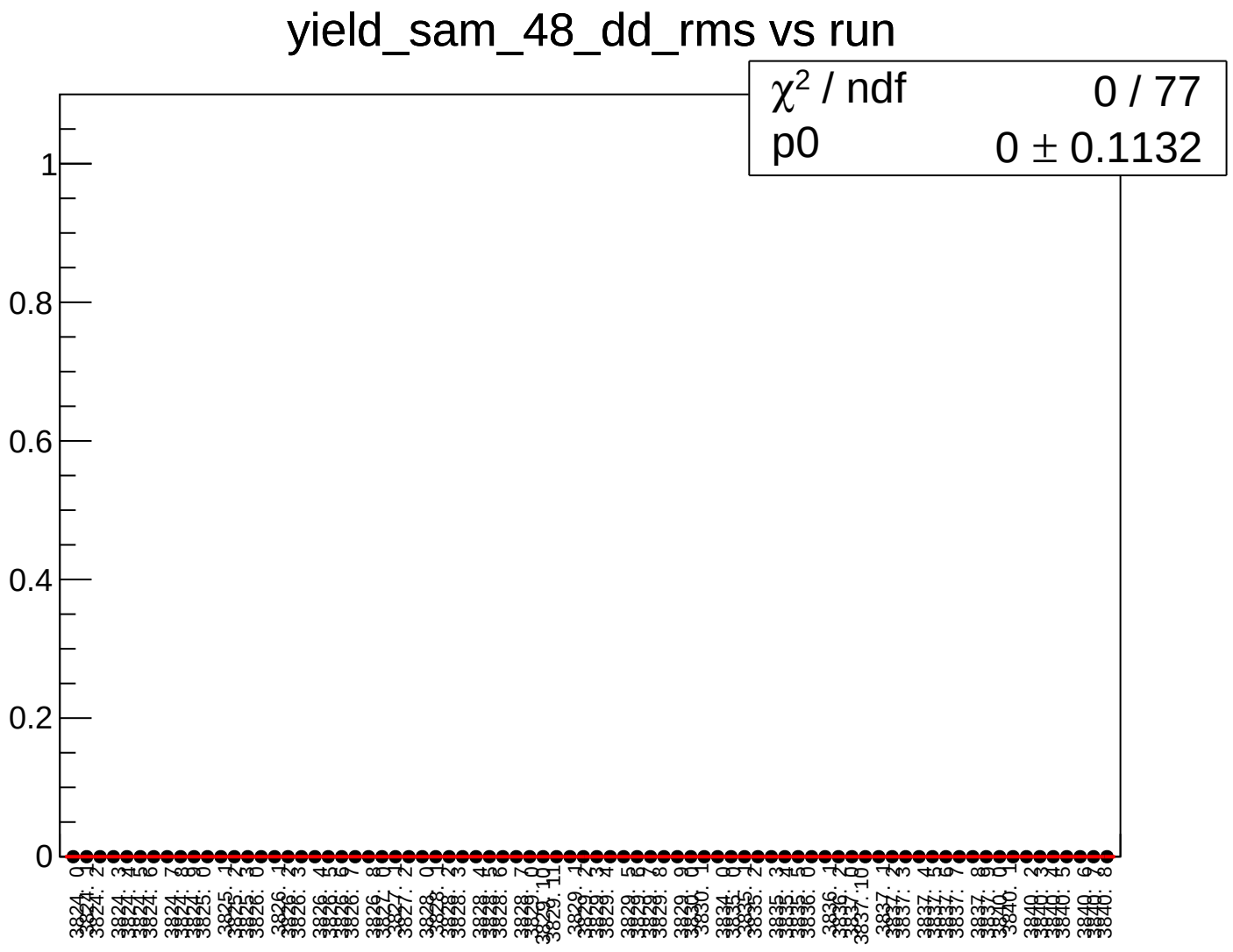

yield_sam_37_dd_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

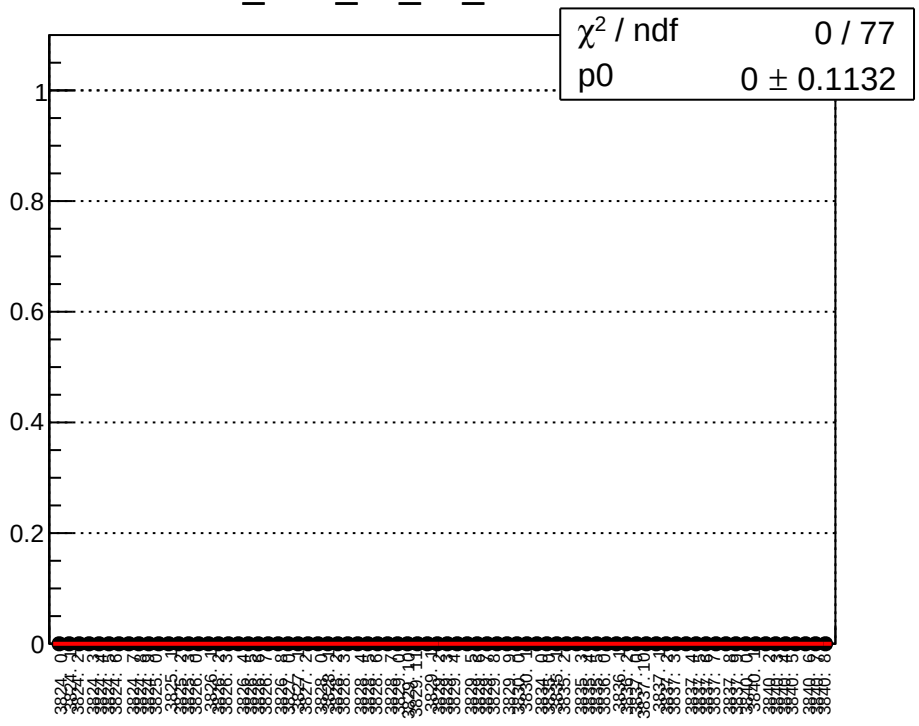

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

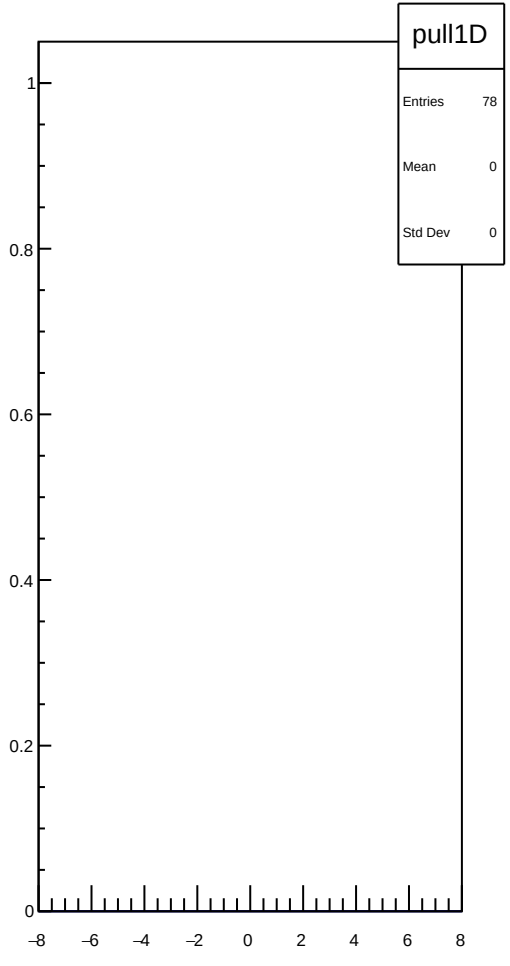

yield_sam_37_dd_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

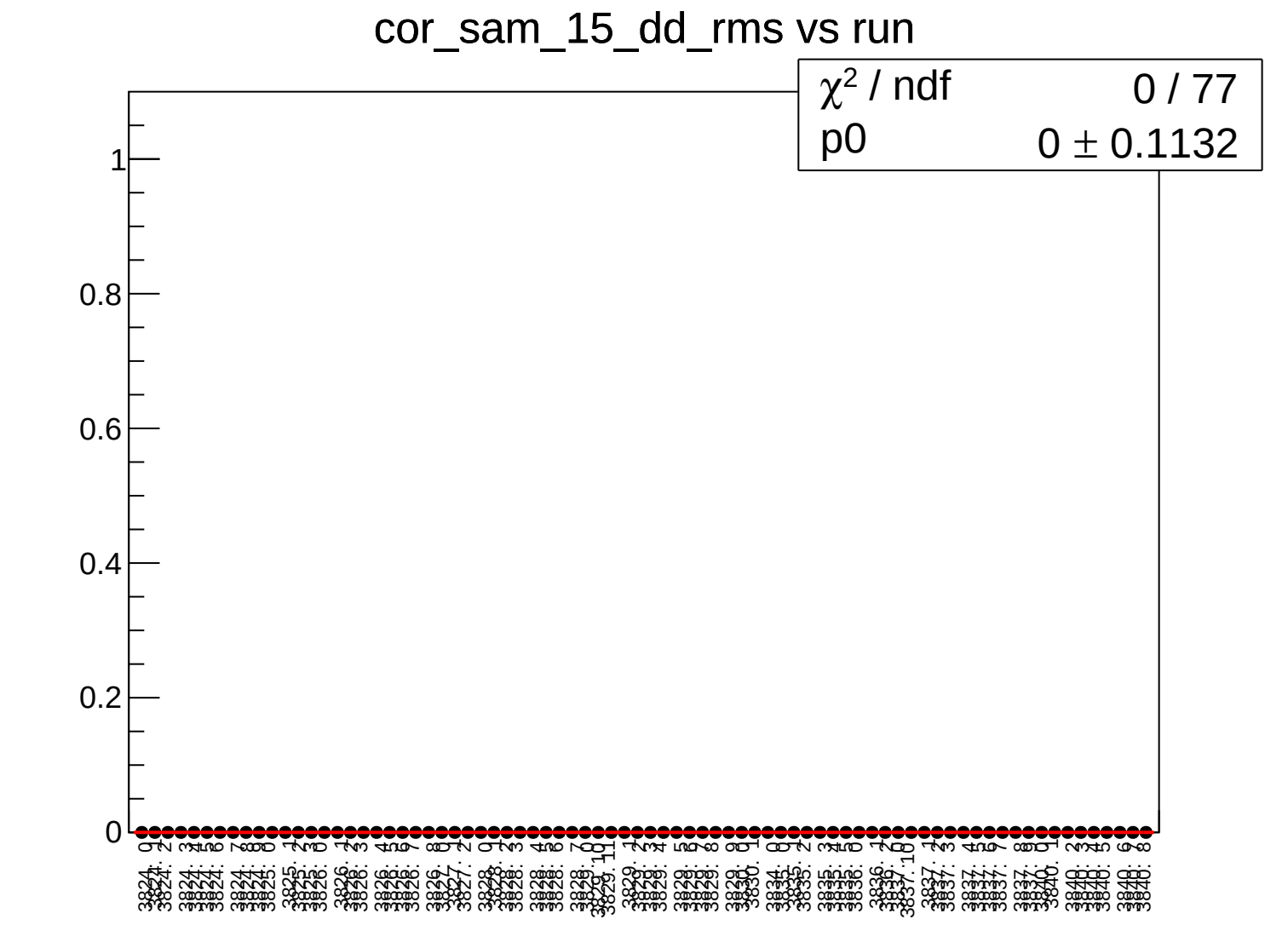

yield_sam_48_dd_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

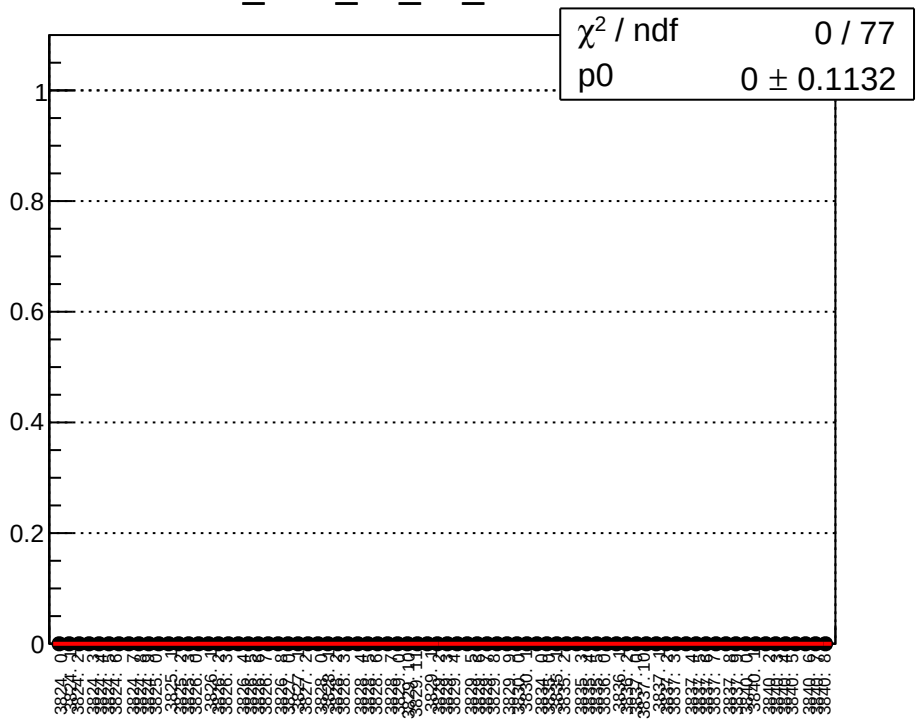

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

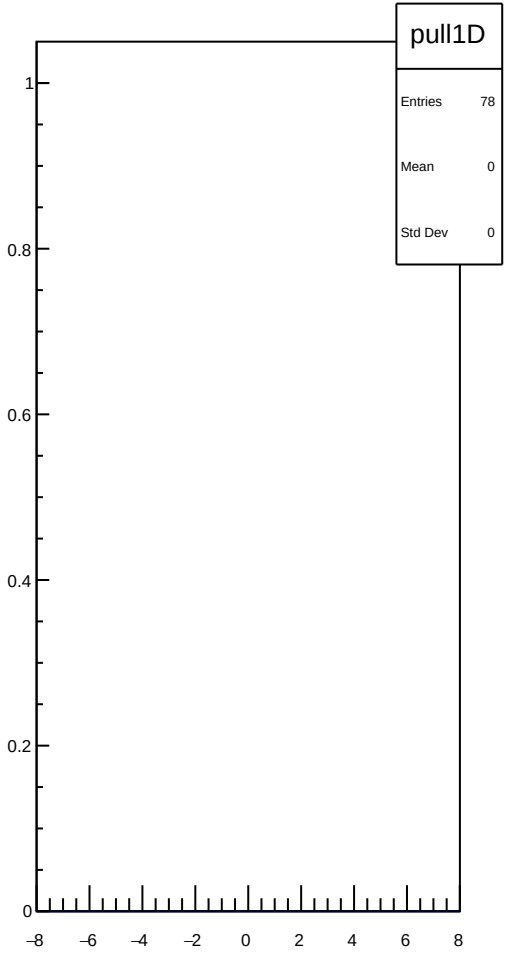

yield_sam_48_dd_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

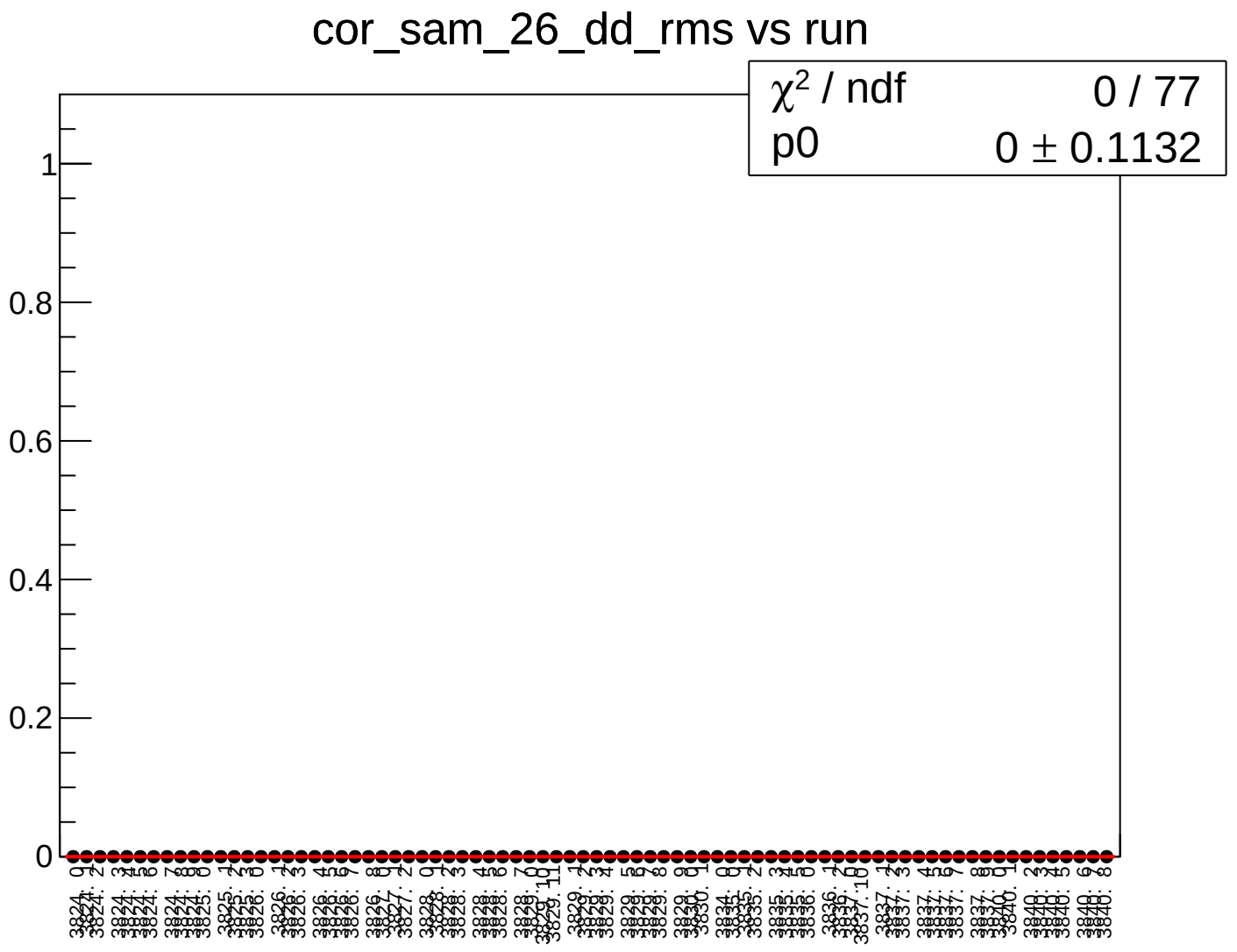

cor_sam_15_dd_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

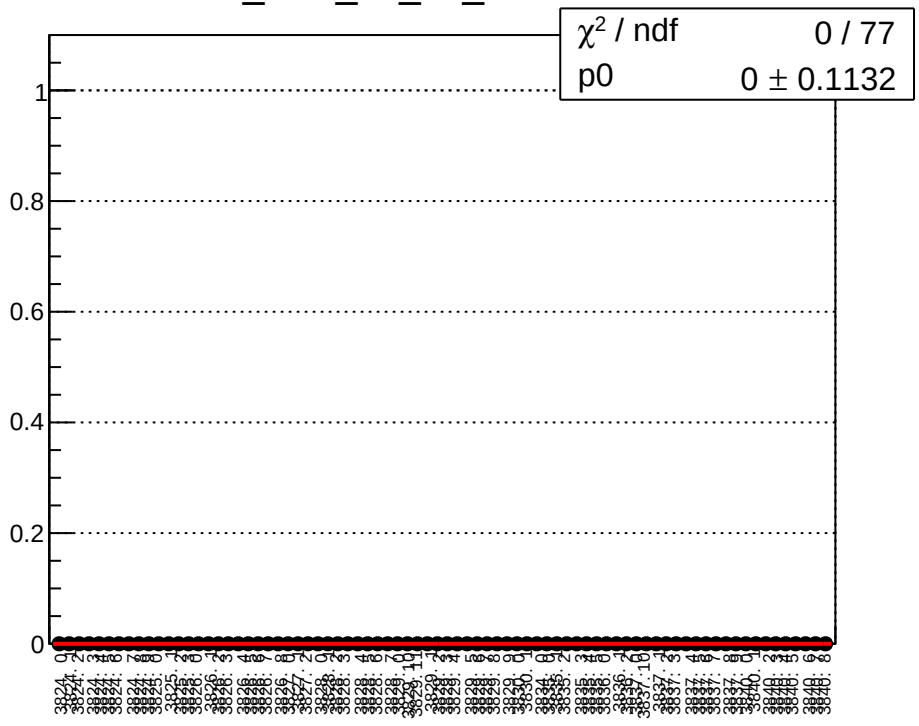

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

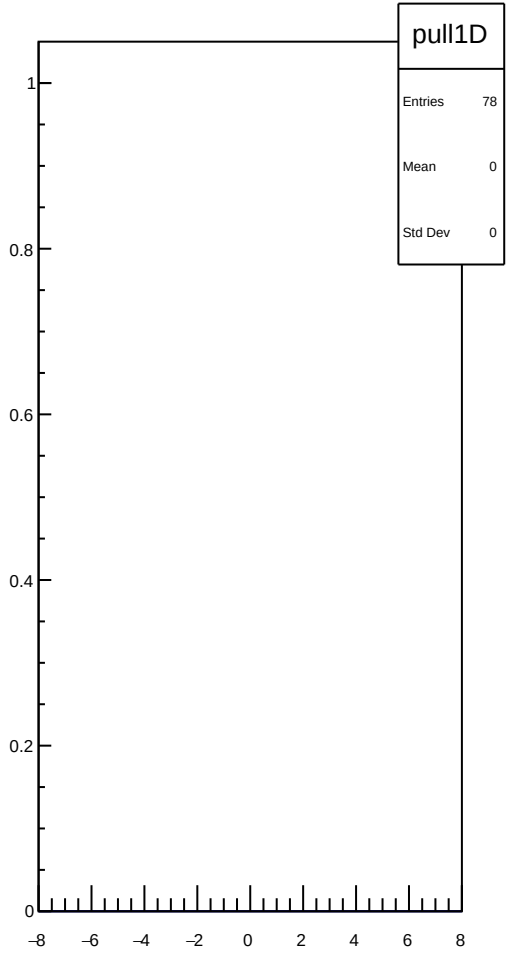

cor_sam_15_dd_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

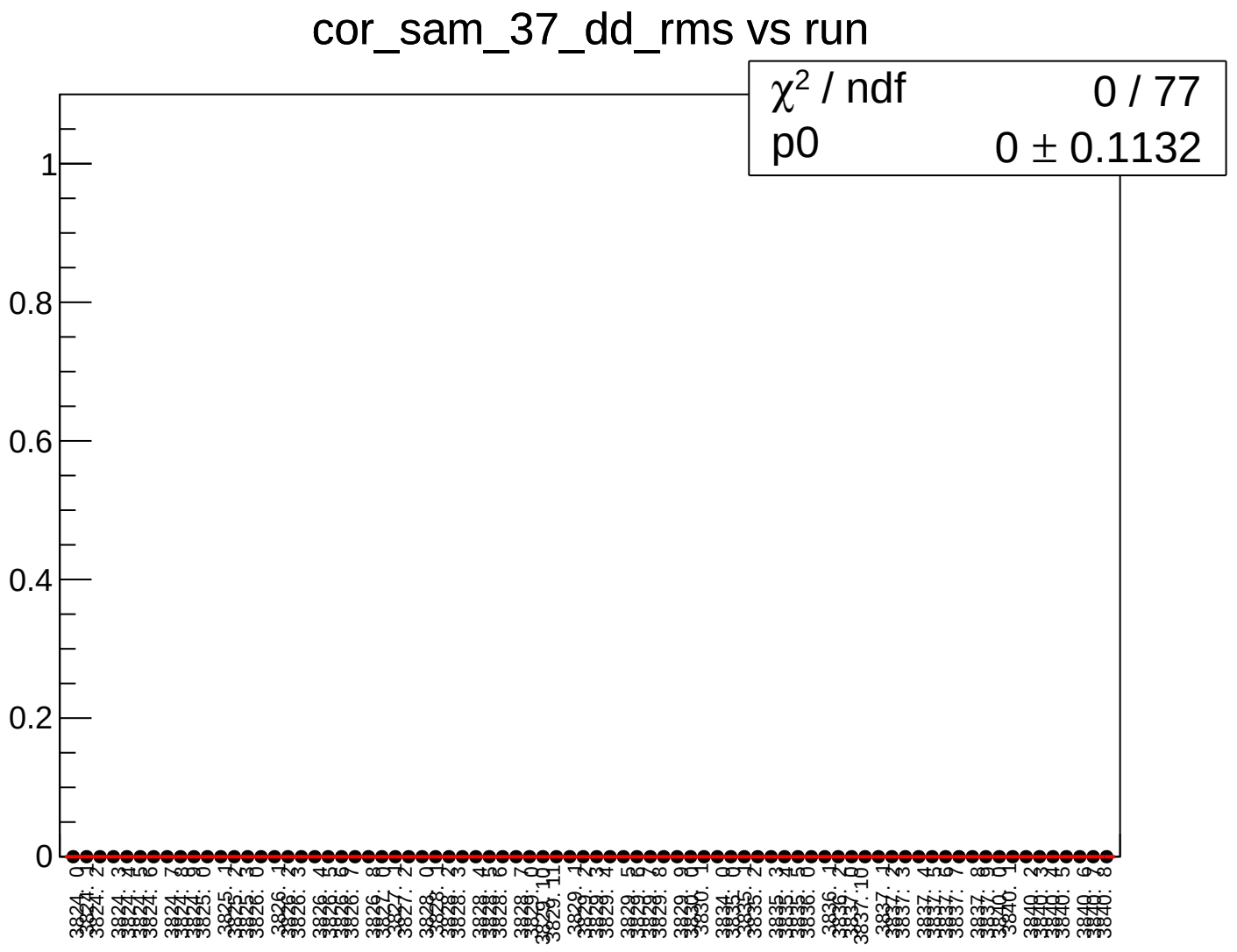

cor_sam_26_dd_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

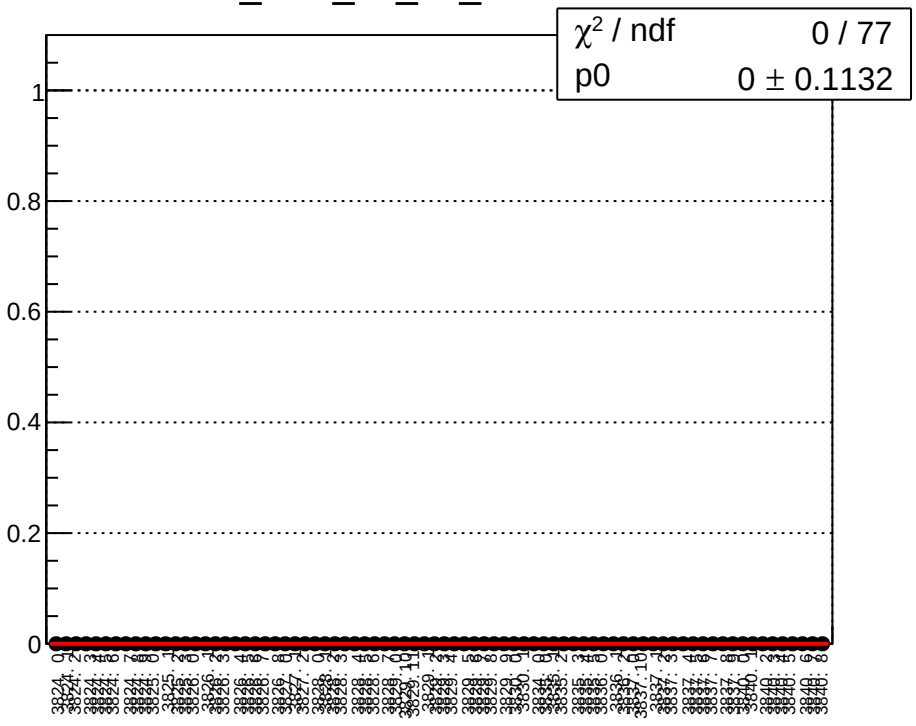

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

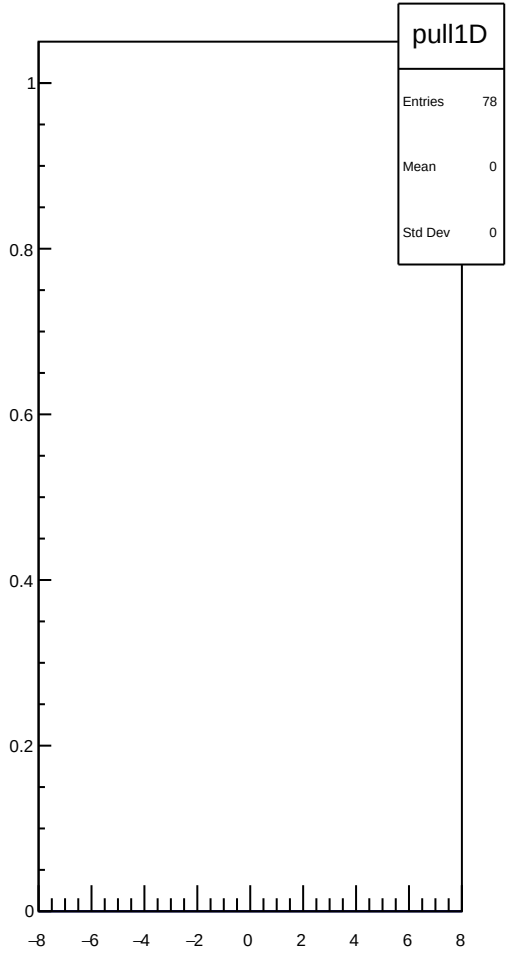

cor_sam_26_dd_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

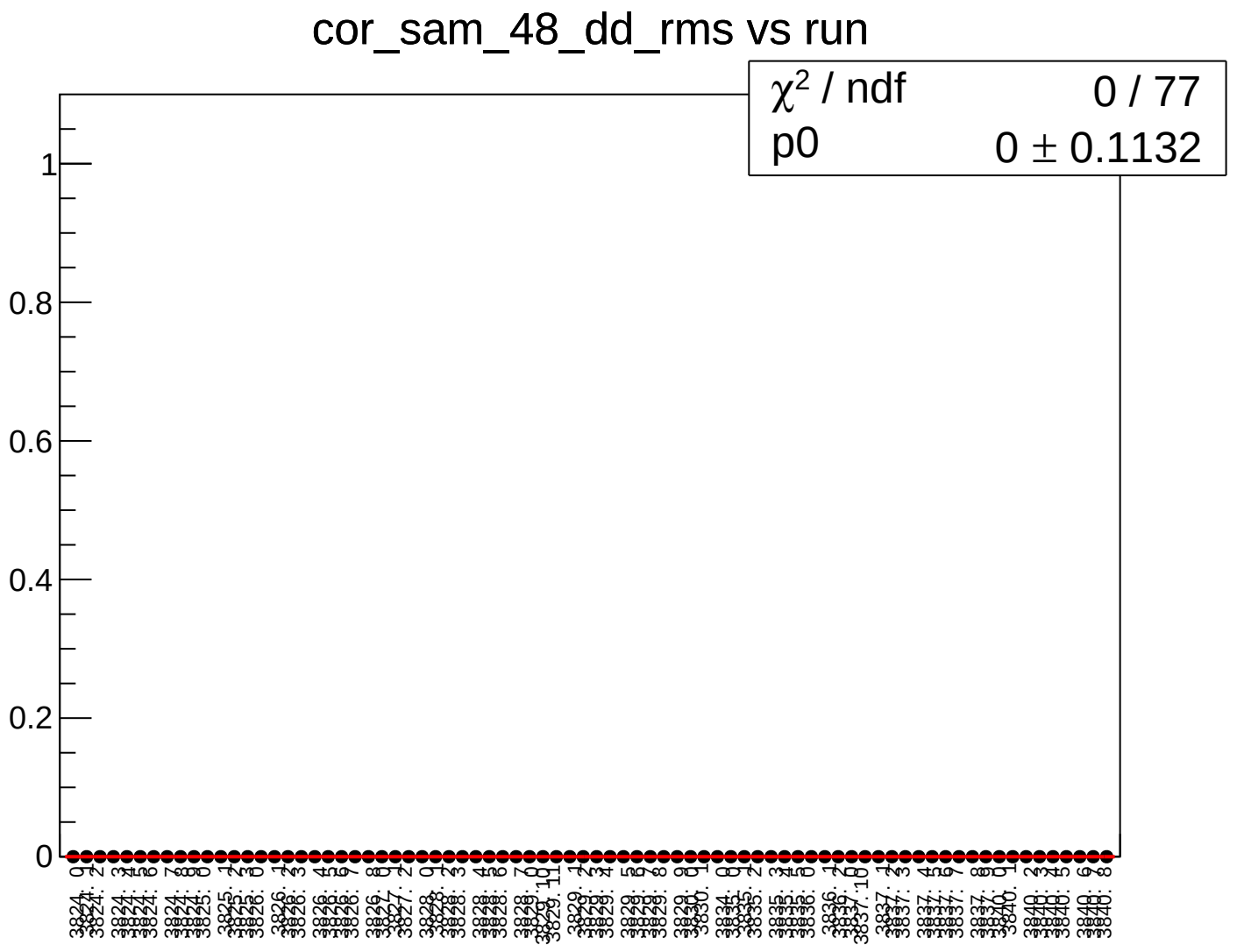

cor_sam_37_dd_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

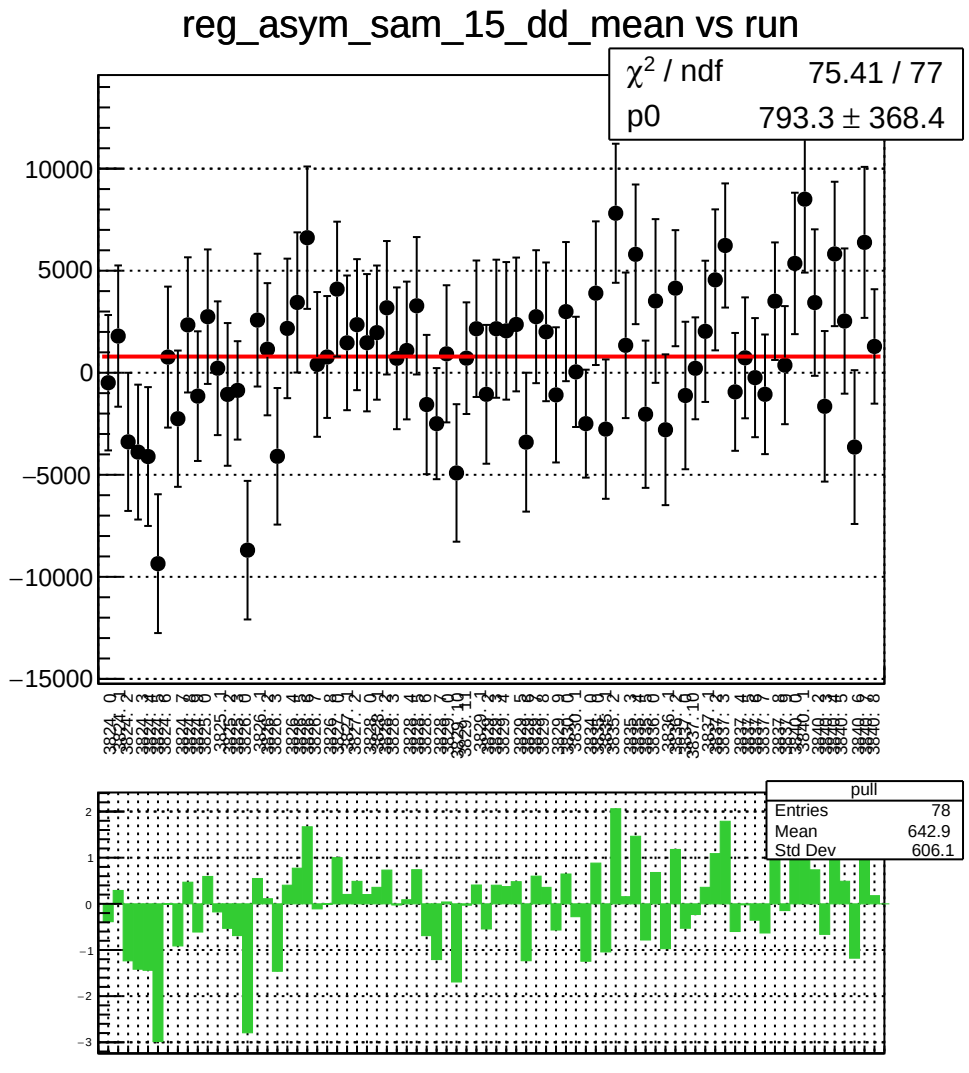

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

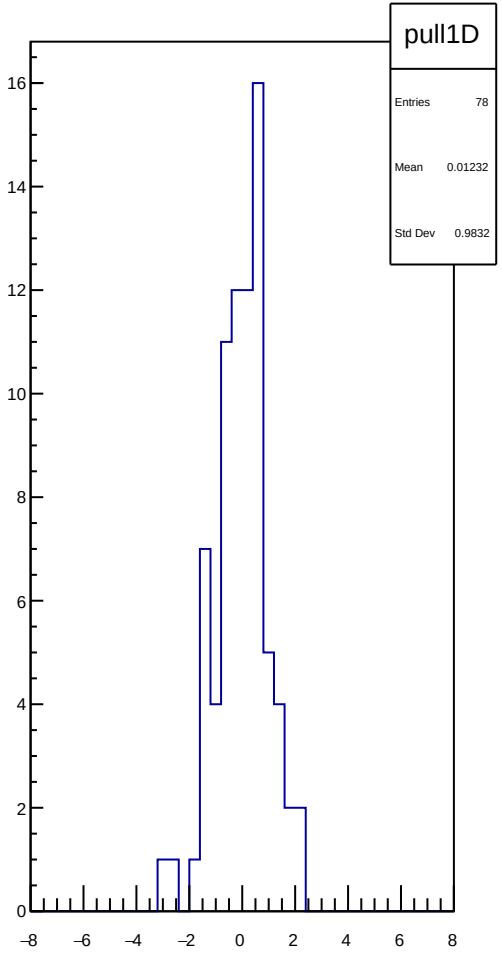

cor_sam_37_dd_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

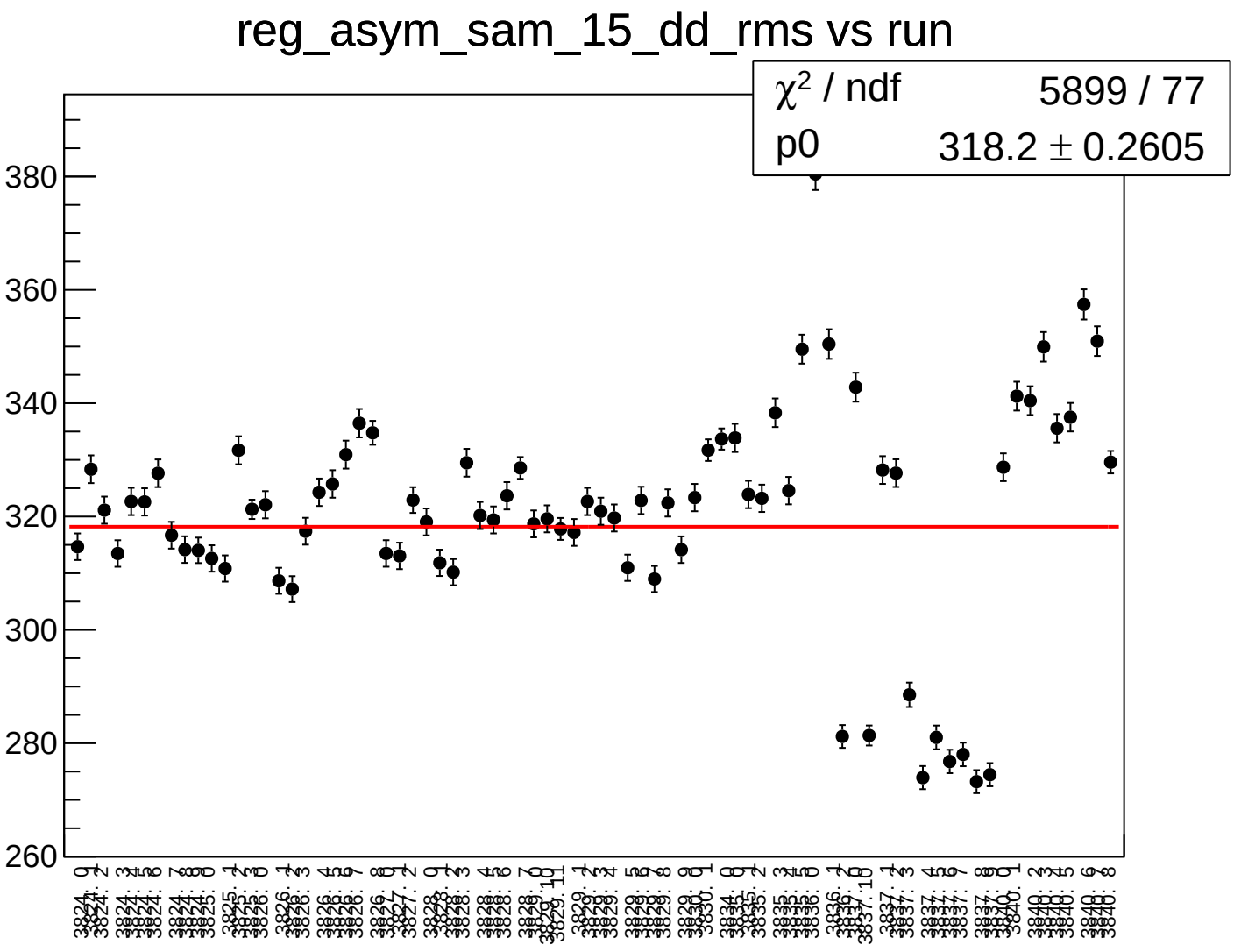

cor_sam_48_dd_mean vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

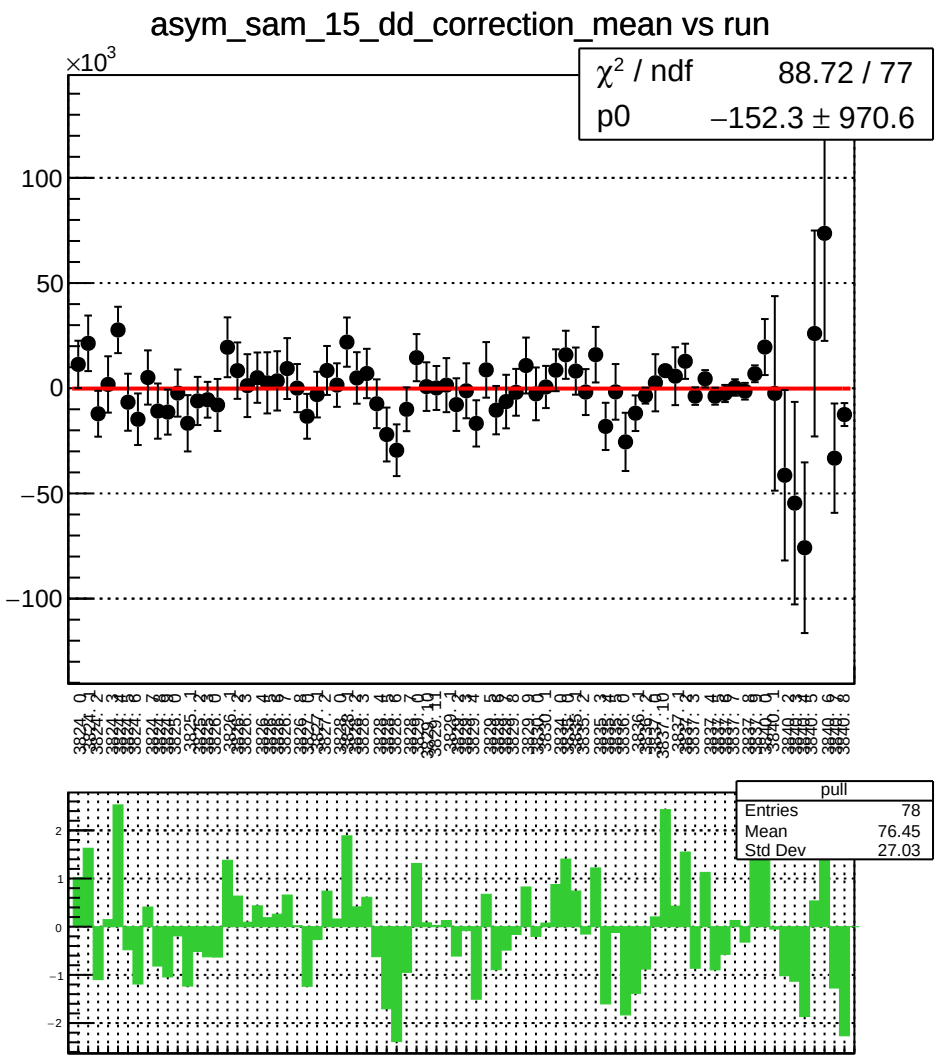

pull1D
Entries 78
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

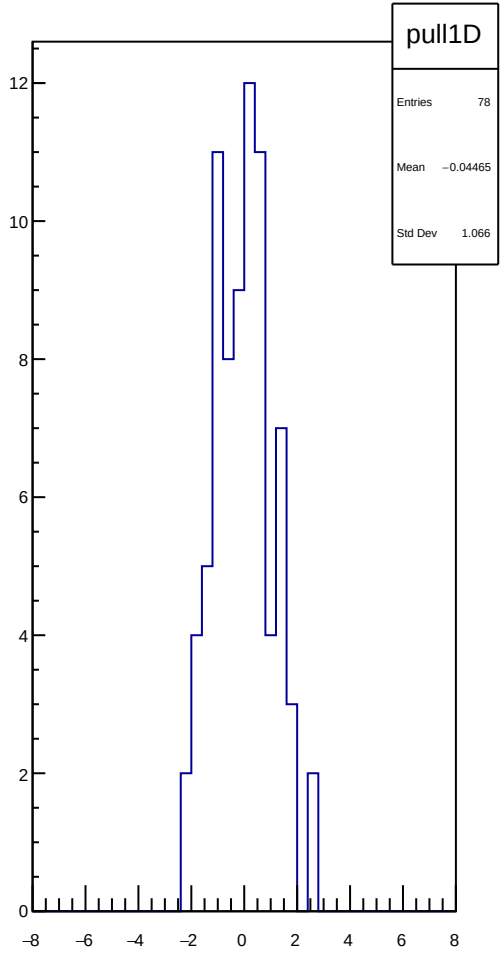

cor_sam_48_dd_rms vs run
χ² / ndf 0 / 77
p0 0 ± 0.1132
1
0.8
0.6
0.4
0.2
0

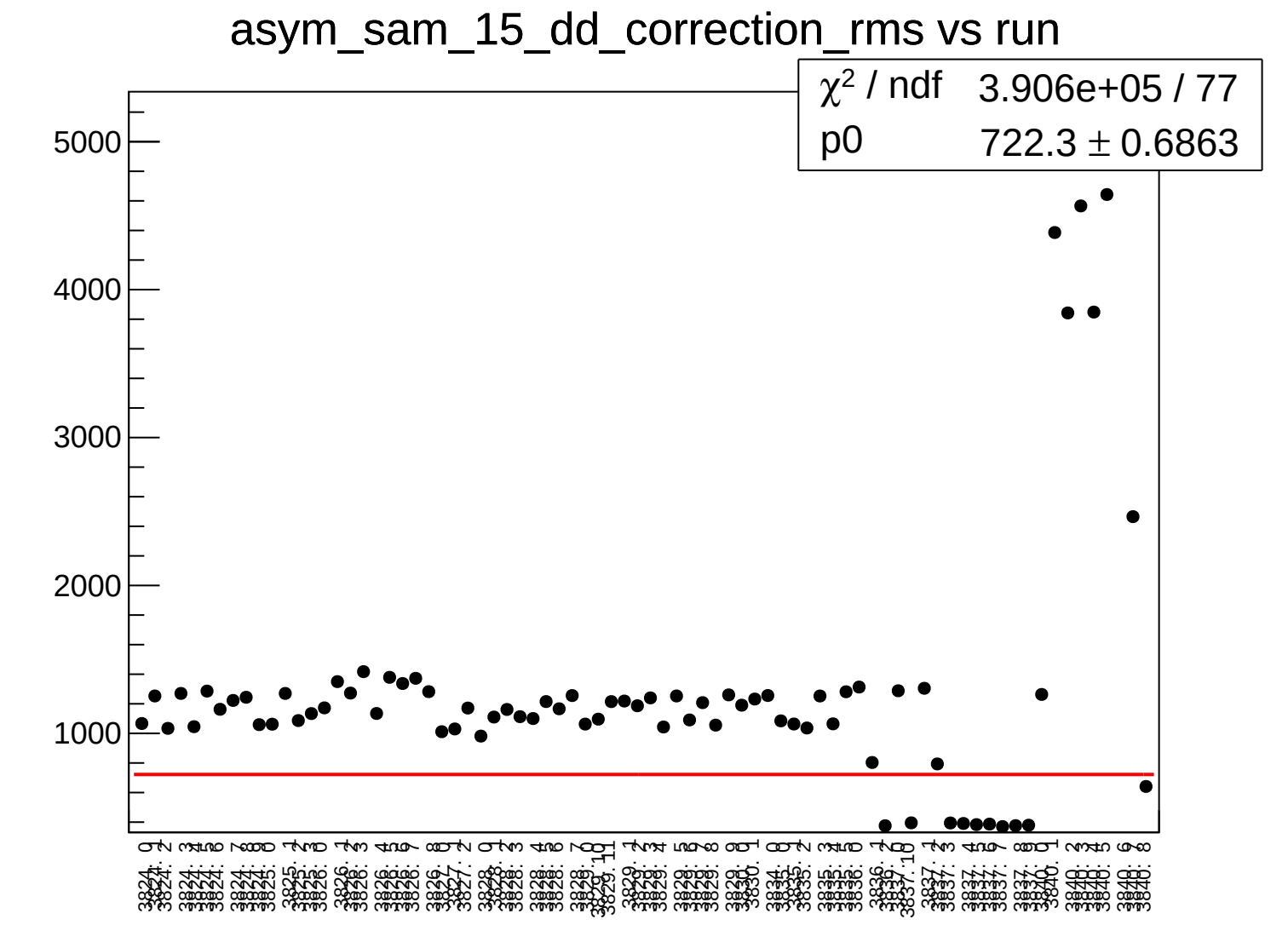

reg_asym_sam_15_dd_mean vs run
χ² / ndf 75.41 / 77
p0 793.3 ± 368.4
pull
Entries 78
Mean 642.9
Std Dev 606.1

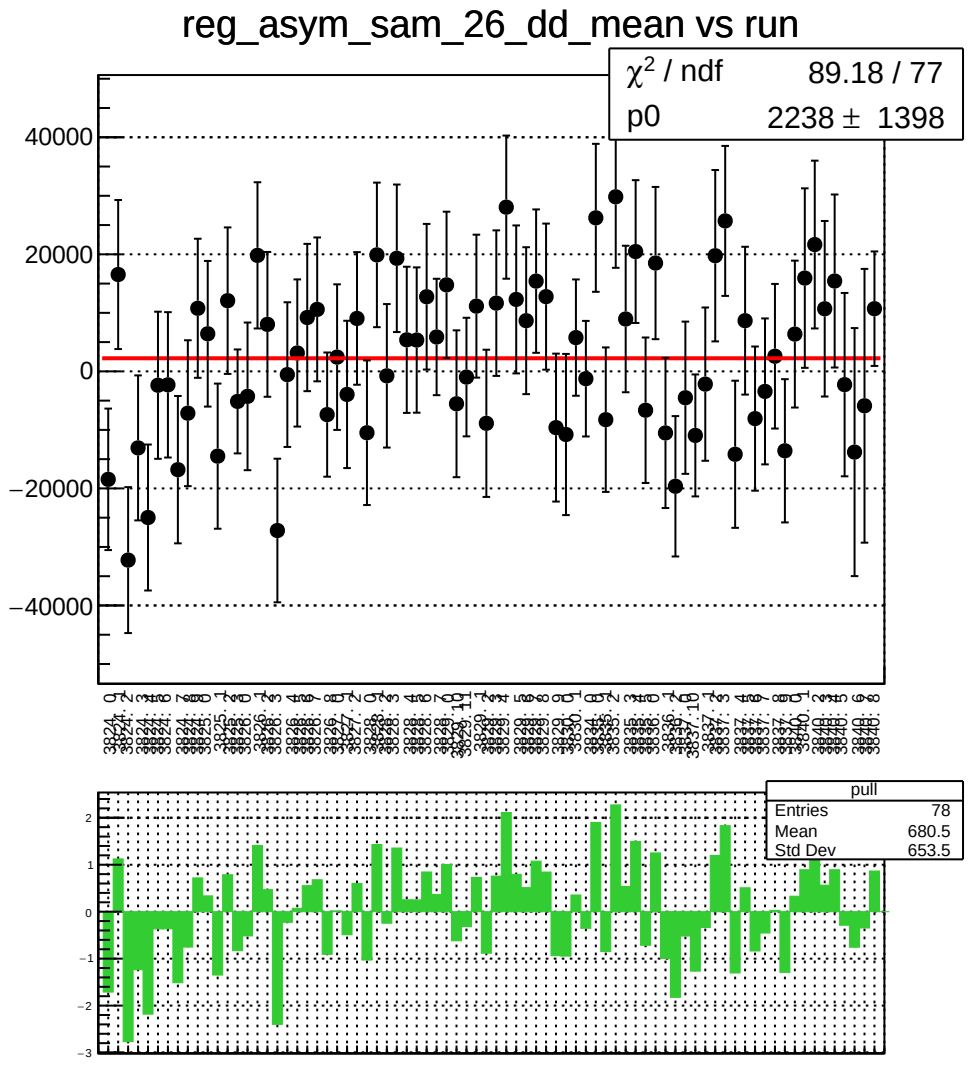

pull1D
Entries 78
Mean 0.01232
Std Dev 0.9832

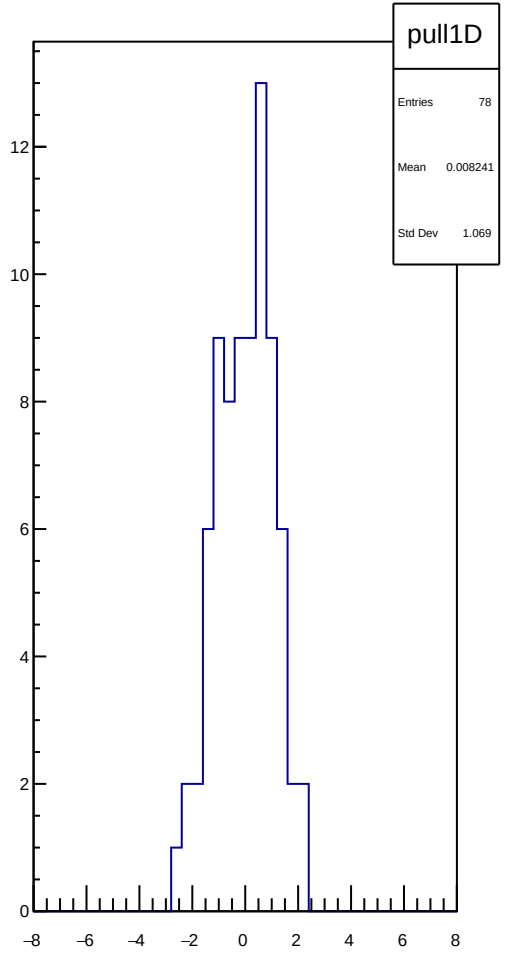

reg_asym_sam_15_dd_rms vs run
χ² / ndf 5899 / 77
p0 318.2 ± 0.2605
380
360
340
320
300
280
260

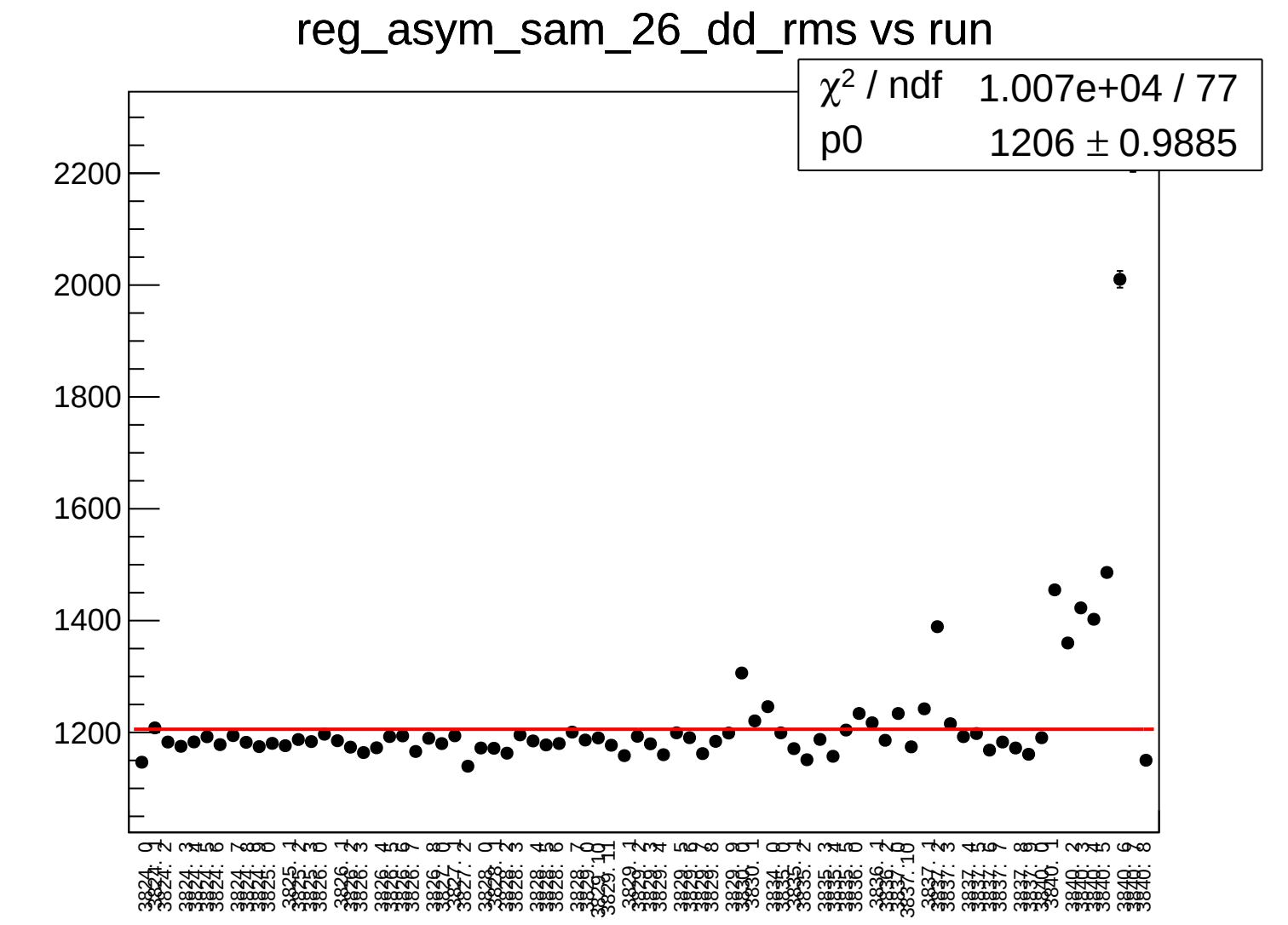

asym_sam_15_dd_correction_mean vs run
×10^3
χ² / ndf 88.72 / 77
p0 −152.3 ± 970.6
100
50
0
−50
−100
pull
Entries 78
Mean 76.45
Std Dev 27.03
2
1
0
−1
−2

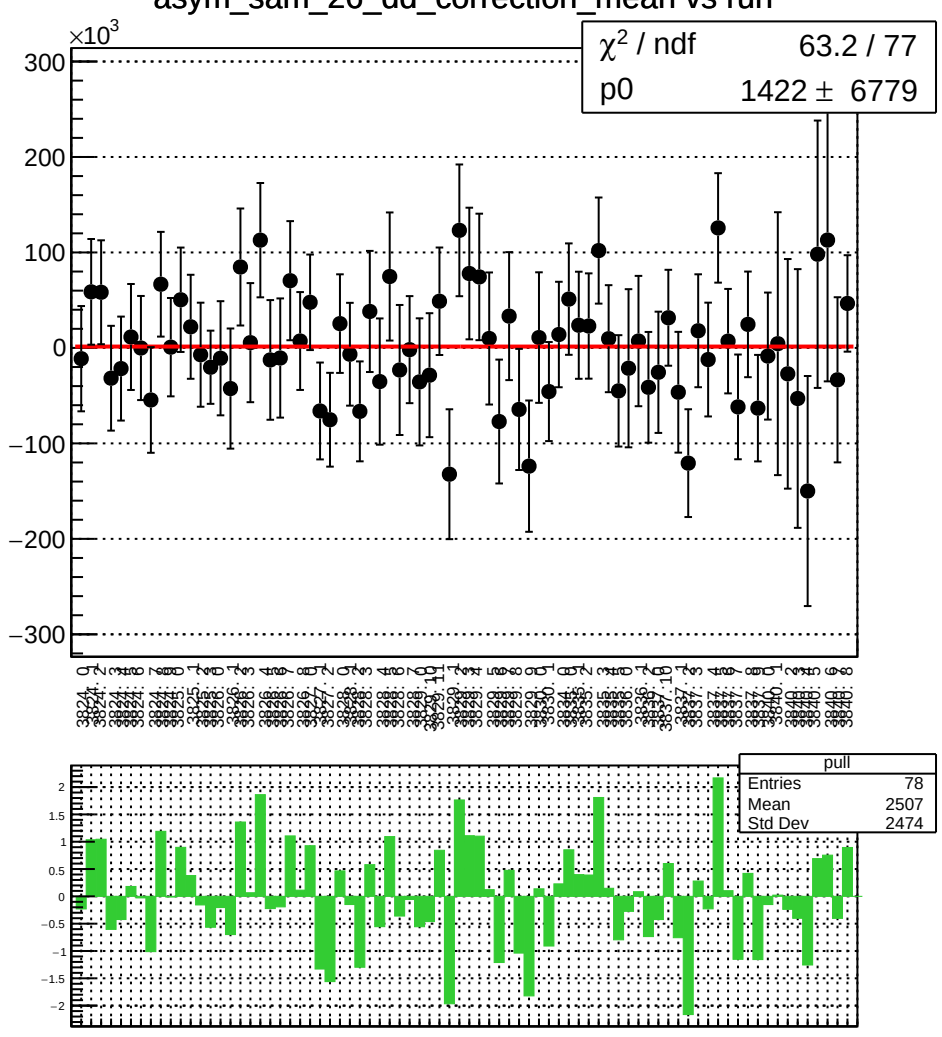

pull1D
Entries 78
Mean −0.04465
Std Dev 1.066
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

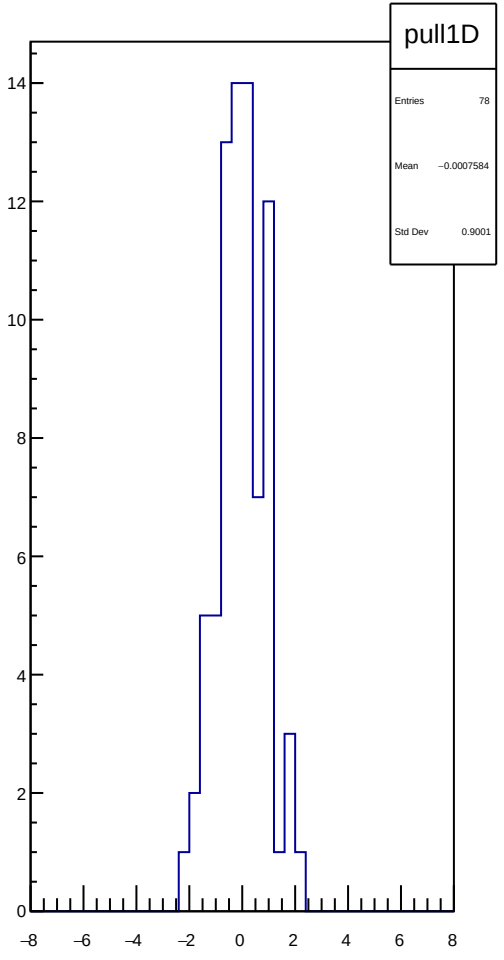

asym_sam_15_dd_correction_rms vs run
χ² / ndf 3.906e+05 / 77
p0 722.3 ± 0.6863
5000
4000
3000
2000
1000

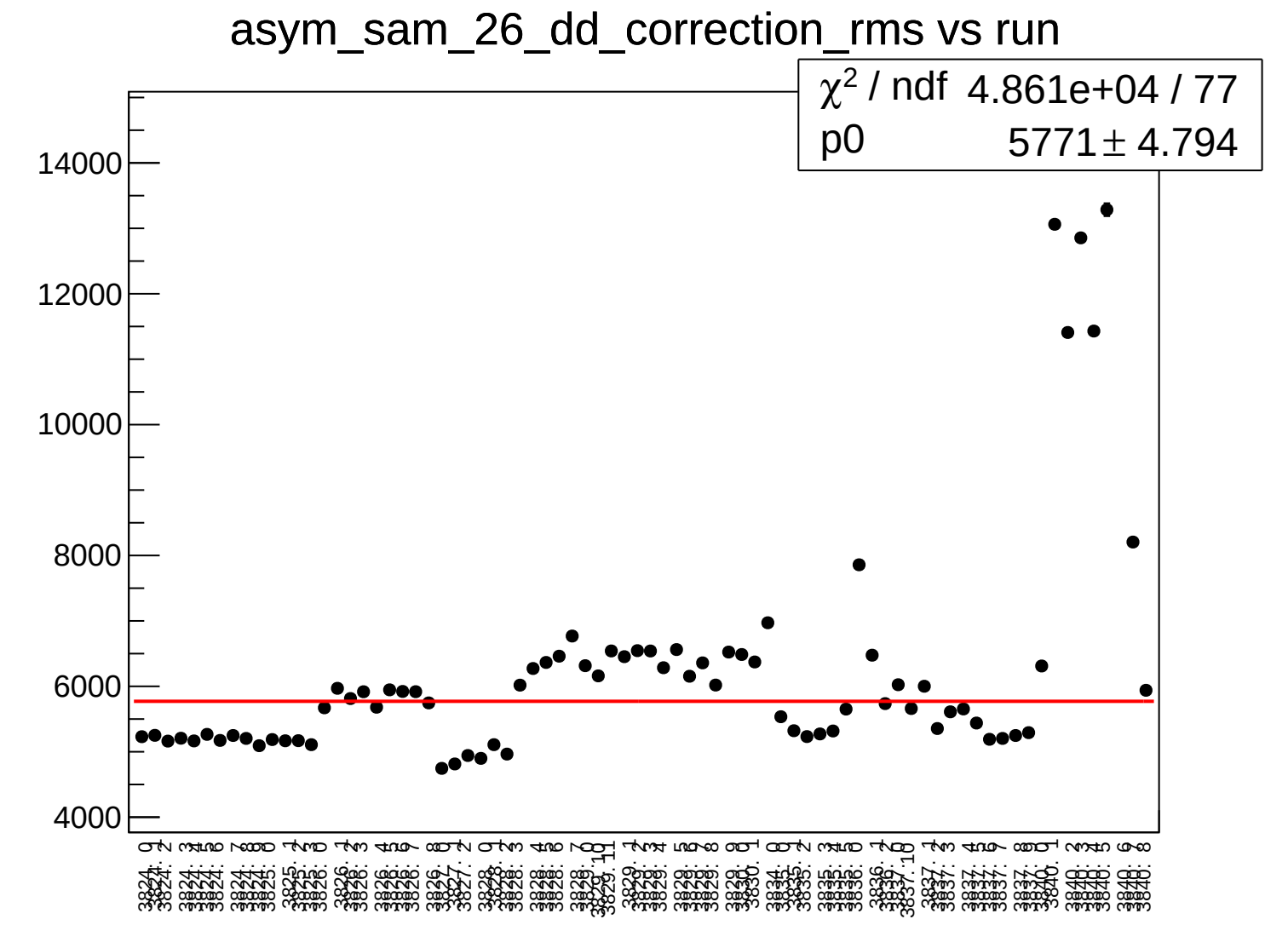

reg_asym_sam_26_dd_mean vs run
χ² / ndf 89.18 / 77
p0 2238 ± 1398
40000
20000
0
−20000
−40000
pull
Entries 78
Mean 680.5
Std Dev 653.5
2
1
0
−1
−2
−3

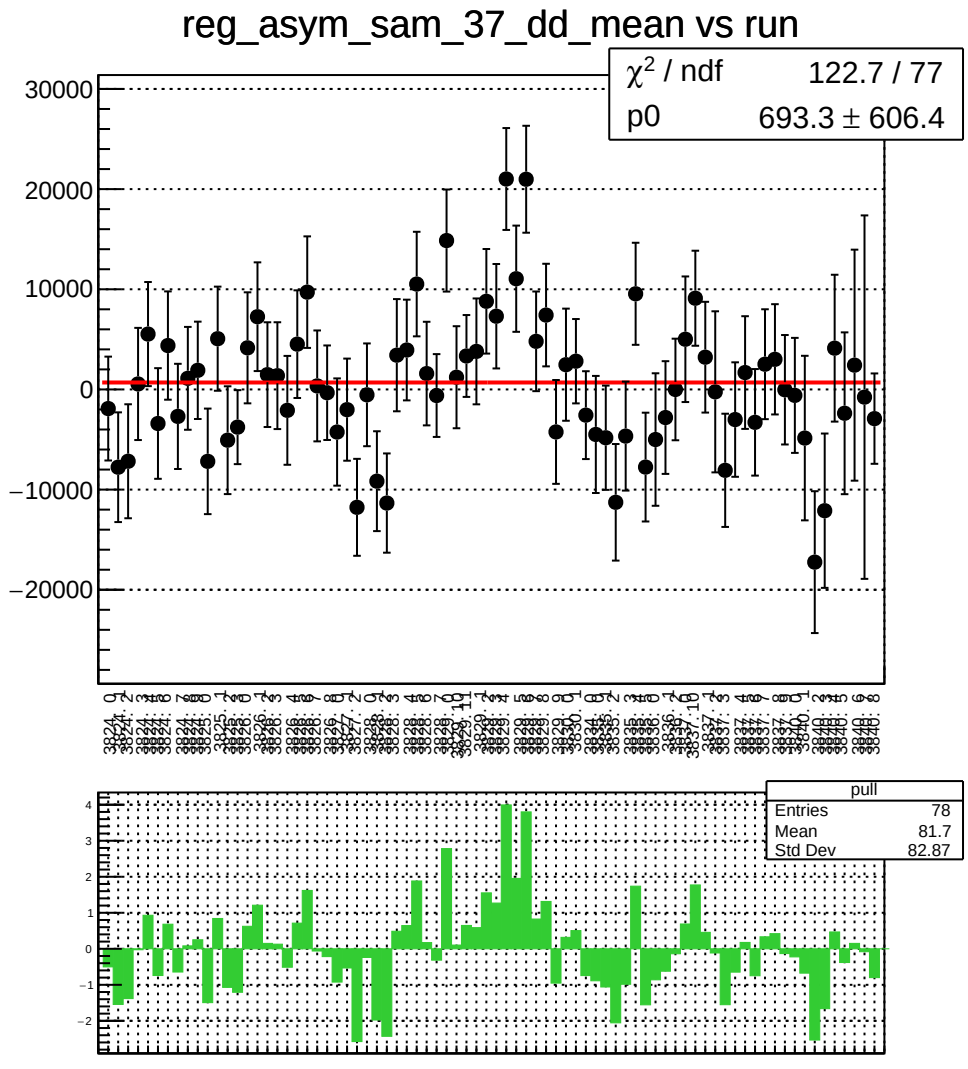

pull1D
Entries 78
Mean 0.008241
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

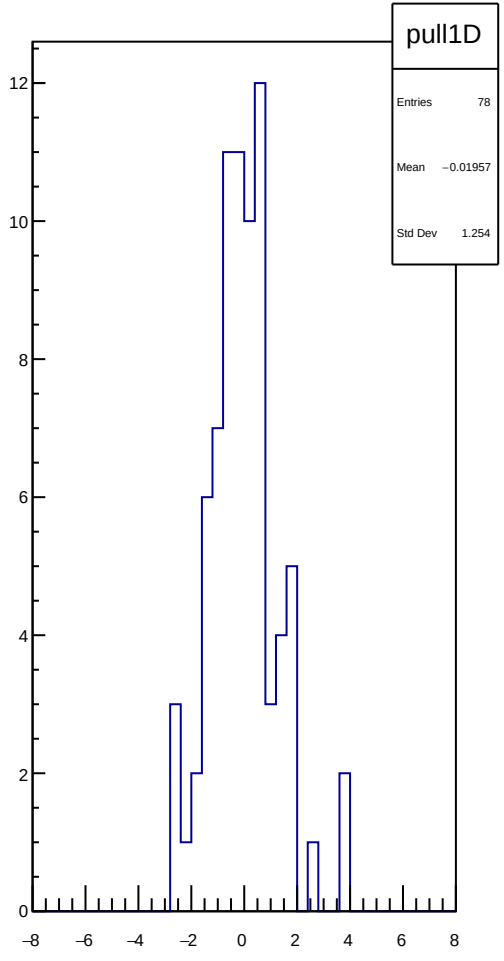

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1.007e+04 / 77
p0 1206 ± 0.9885
2200
2000
1800
1600
1400
1200

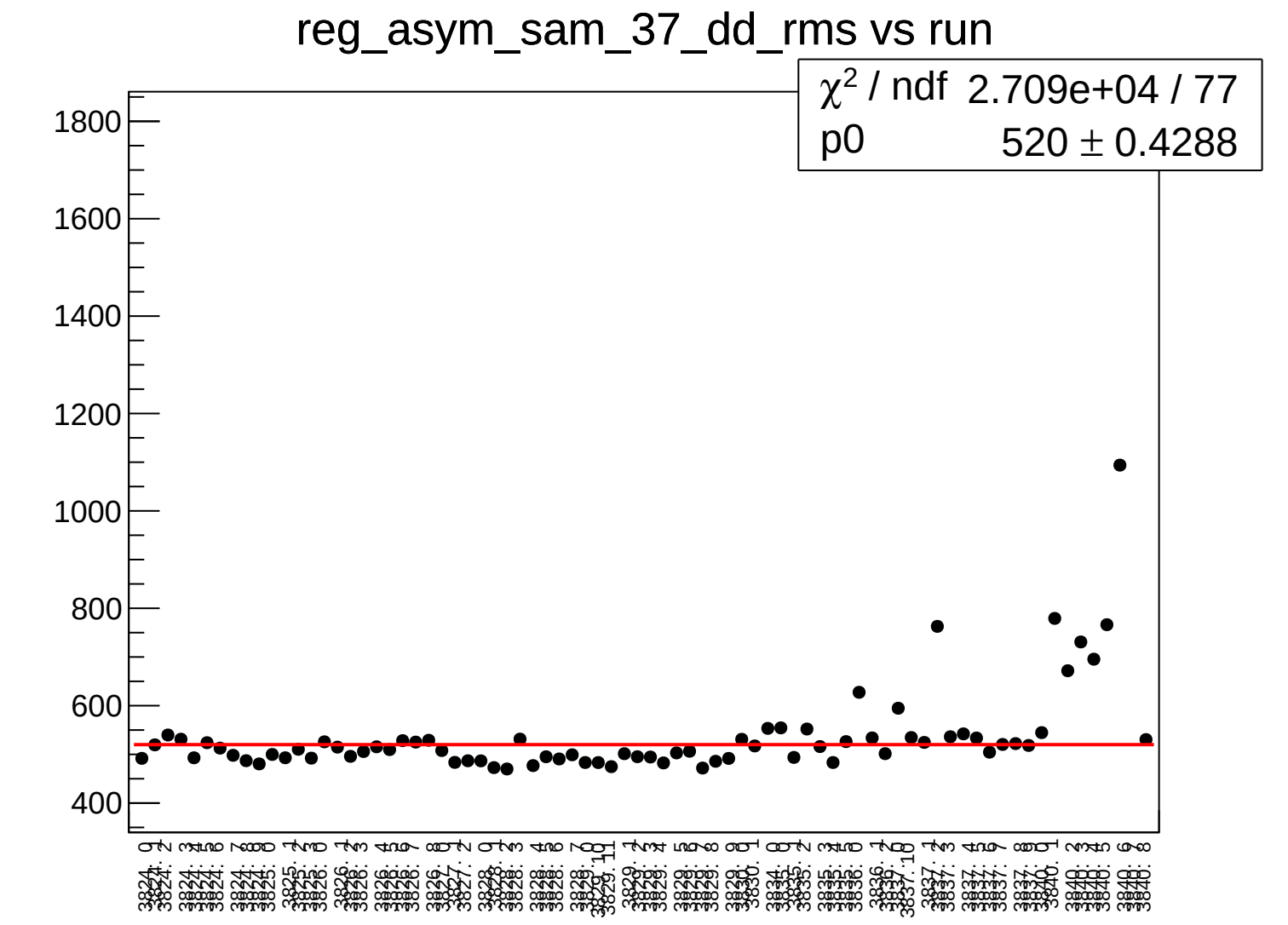

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 63.2 / 77
p0 1422 ± 6779
pull
Entries 78
Mean 2507
Std Dev 2474

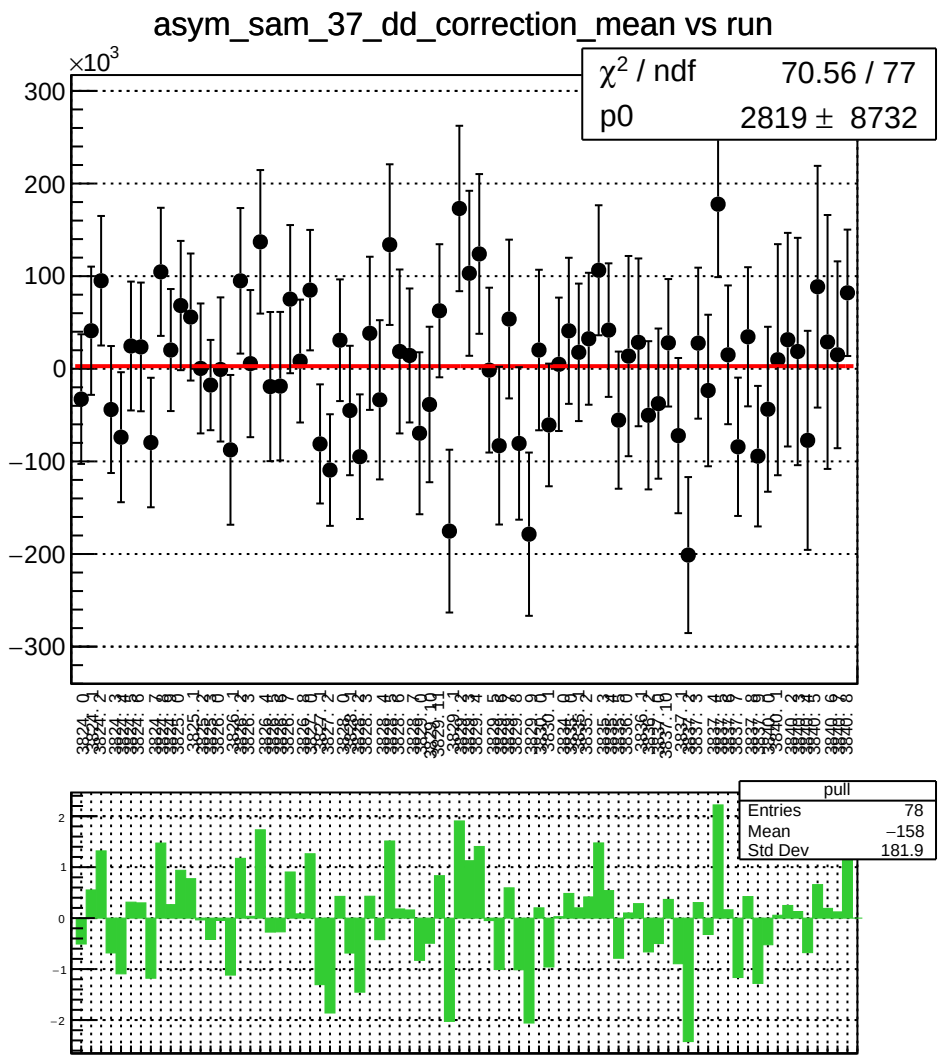

pull1D
Entries 78
Mean −0.0007584
Std Dev 0.9001

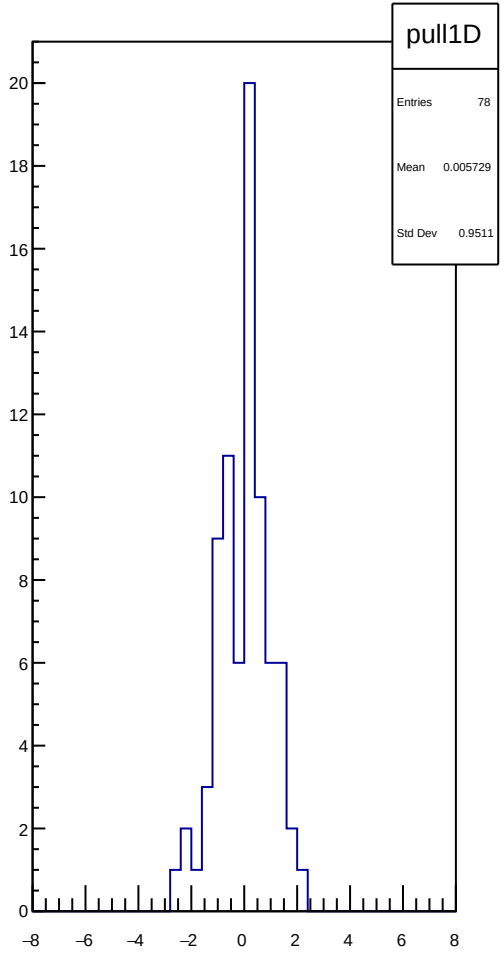

asym_sam_26_dd_correction_rms vs run
χ² / ndf 4.861e+04 / 77
p0 5771 ± 4.794
14000
12000
10000
8000
6000
4000

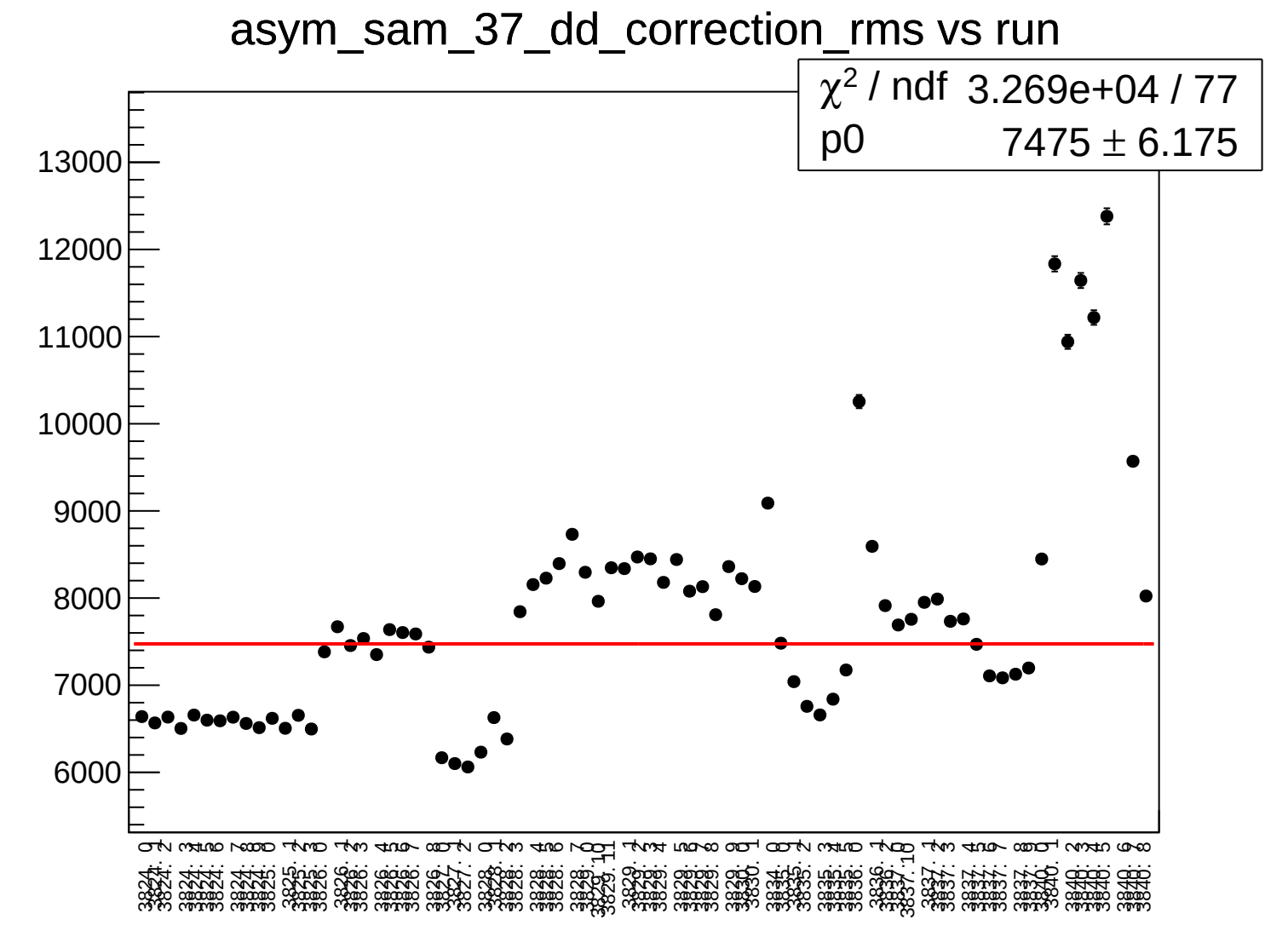

reg_asym_sam_37_dd_mean vs run
χ² / ndf 122.7 / 77
p0 693.3 ± 606.4
pull
Entries 78
Mean 81.7
Std Dev 82.87

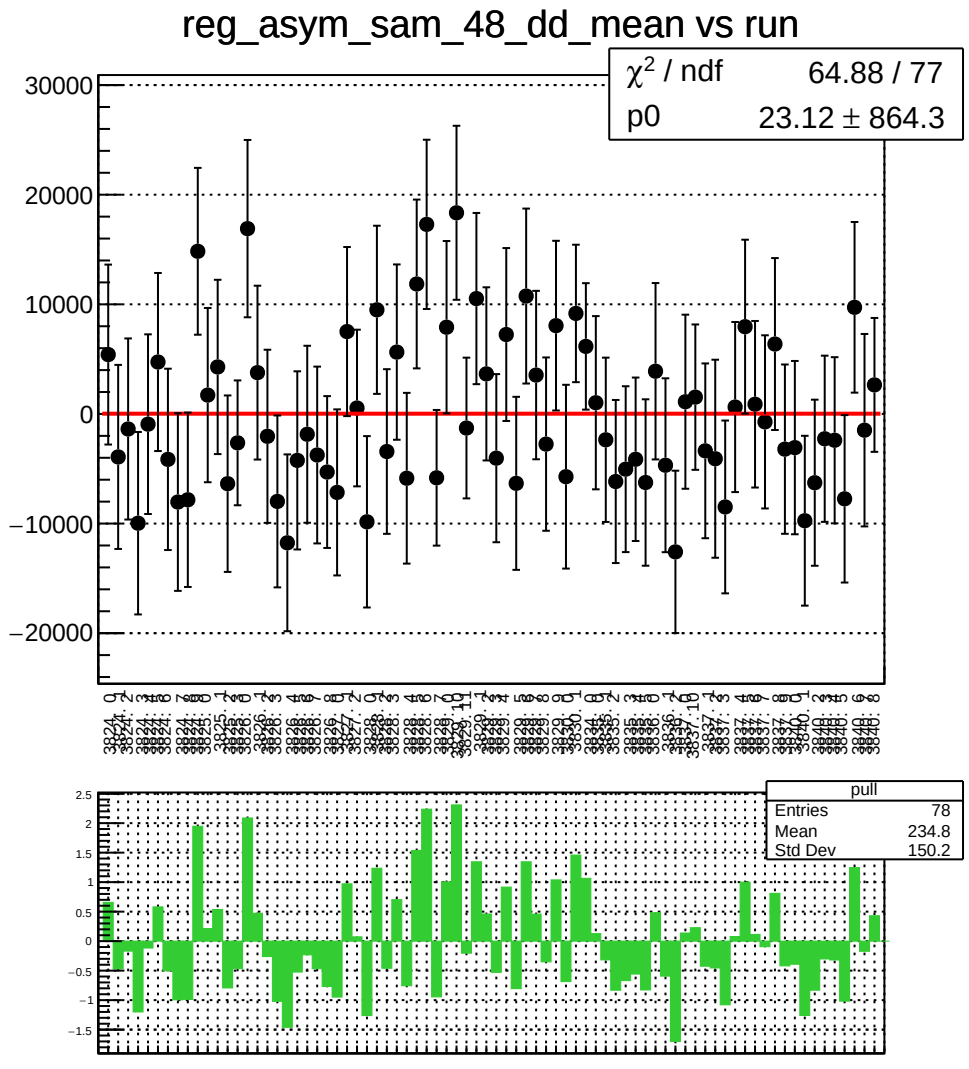

pull1D
Entries 78
Mean −0.01957
Std Dev 1.254

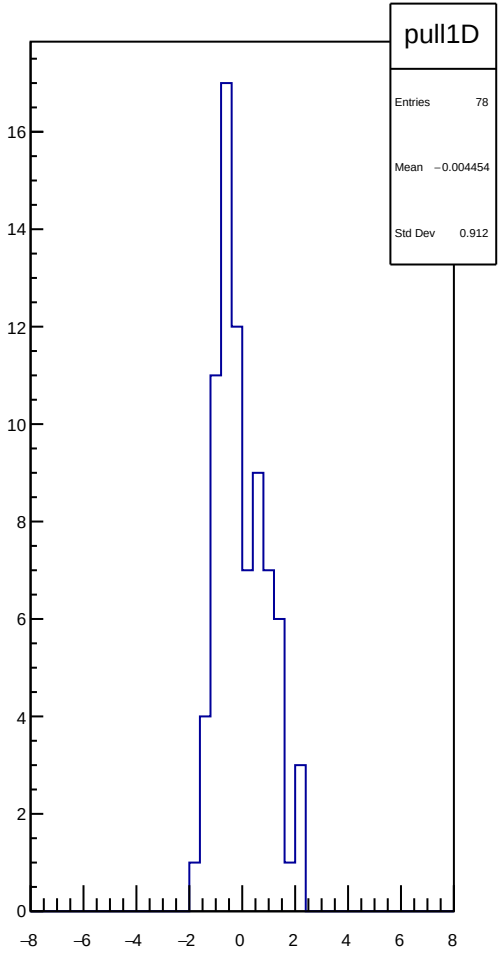

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 2.709e+04 / 77
p0 520 ± 0.4288
1800
1600
1400
1200
1000
800
600
400

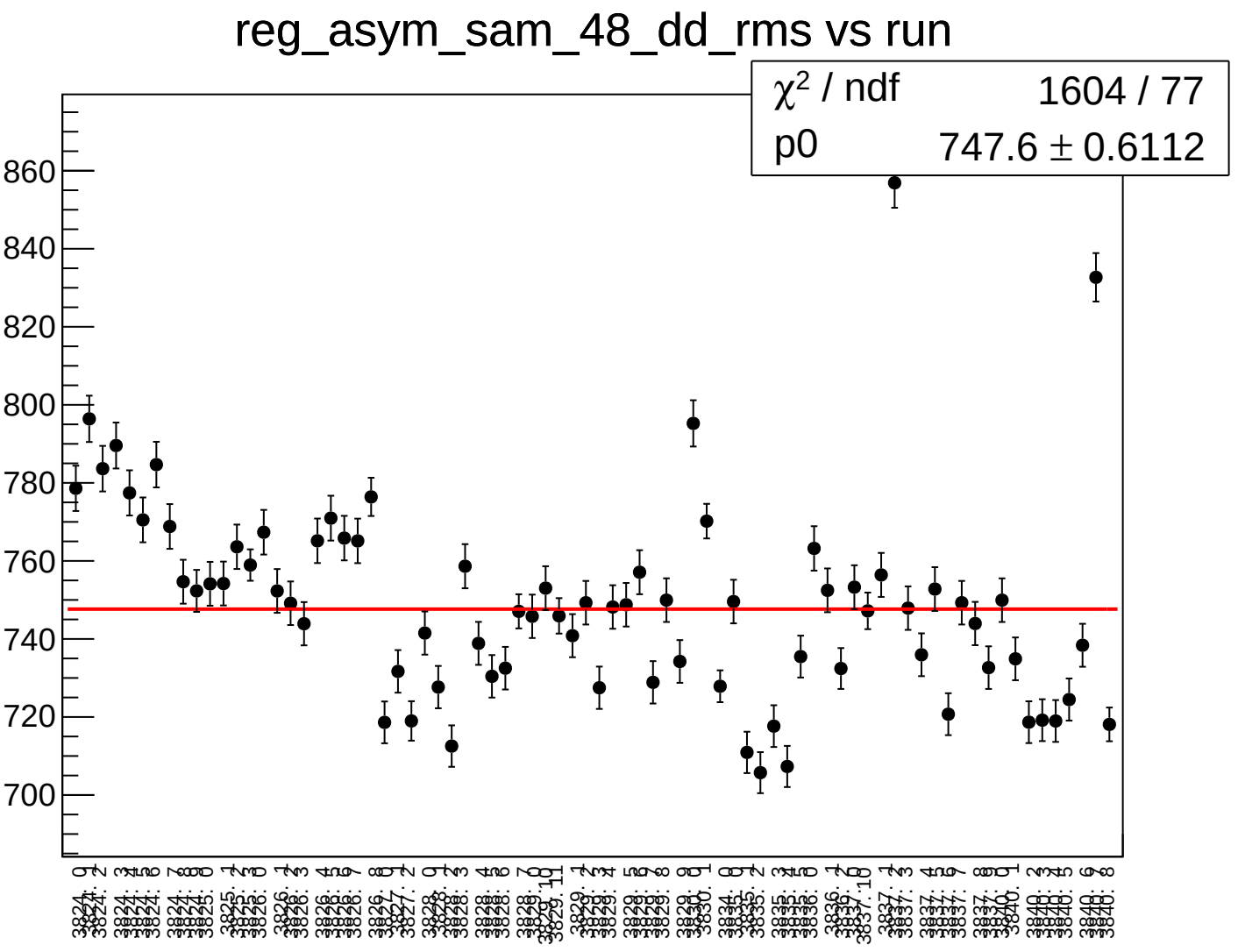

asym_sam_37_dd_correction_mean vs run
×10^3
χ² / ndf 70.56 / 77
p0 2819 ± 8732
pull
Entries 78
Mean −158
Std Dev 181.9

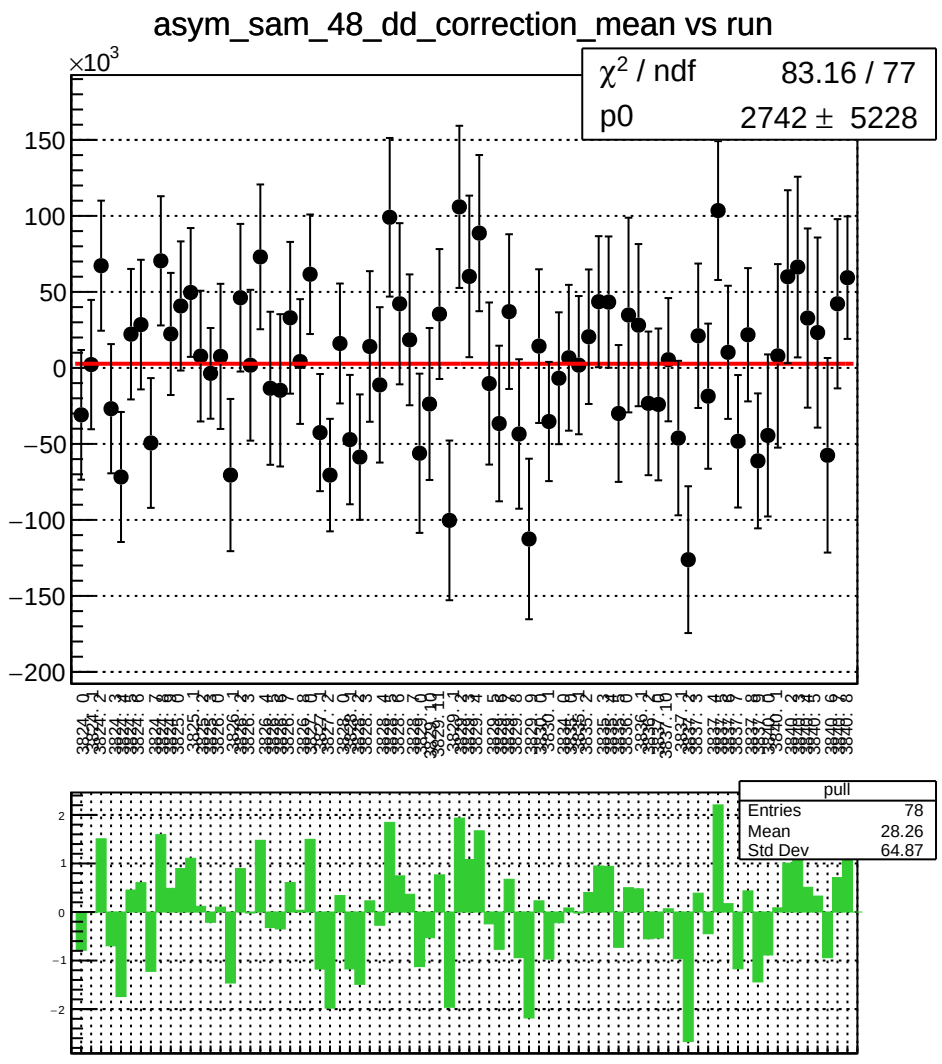

pull1D
Entries 78
Mean 0.005729
Std Dev 0.9511

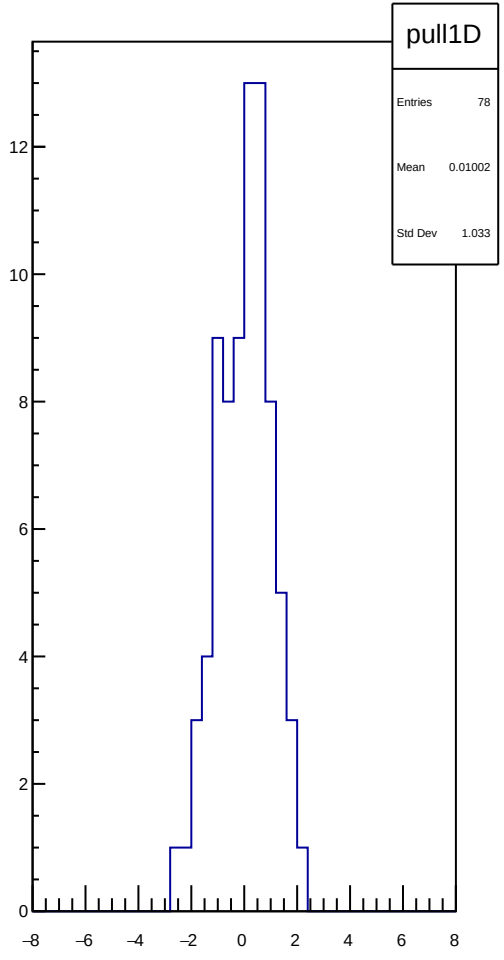

asym_sam_37_dd_correction_rms vs run
χ² / ndf 3.269e+04 / 77
p0 7475 ± 6.175
13000
12000
11000
10000
9000
8000
7000
6000

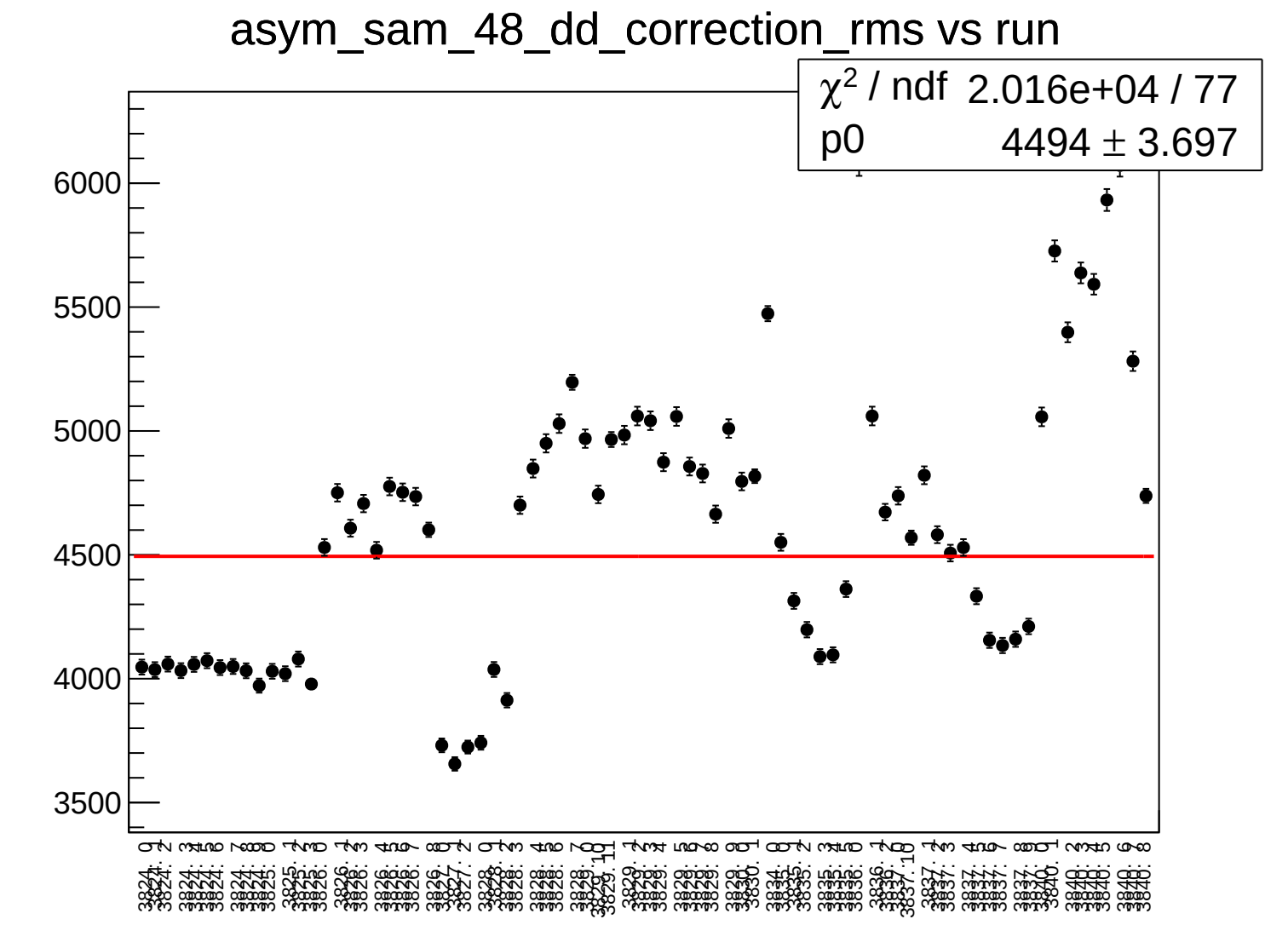

reg_asym_sam_48_dd_mean vs run
χ² / ndf 64.88 / 77
p0 23.12 ± 864.3
pull
Entries 78
Mean 234.8
Std Dev 150.2

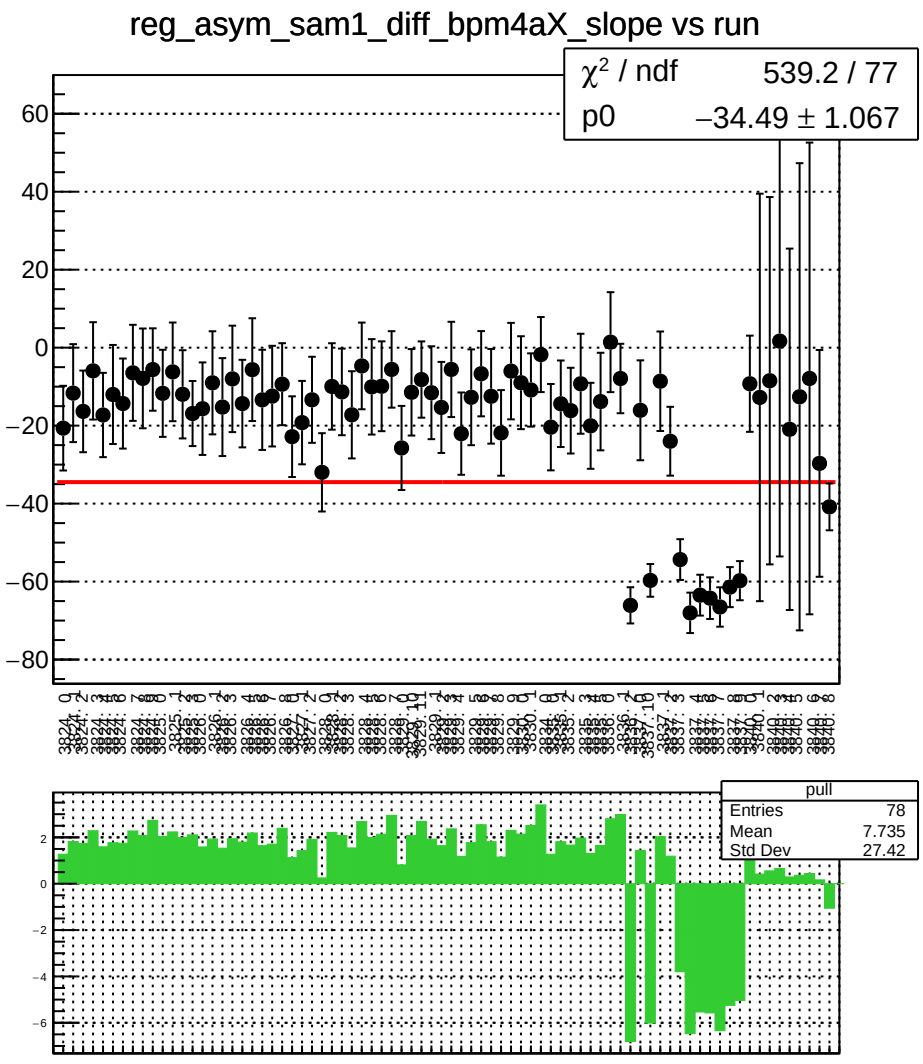

pull1D
Entries 78
Mean −0.004454
Std Dev 0.912

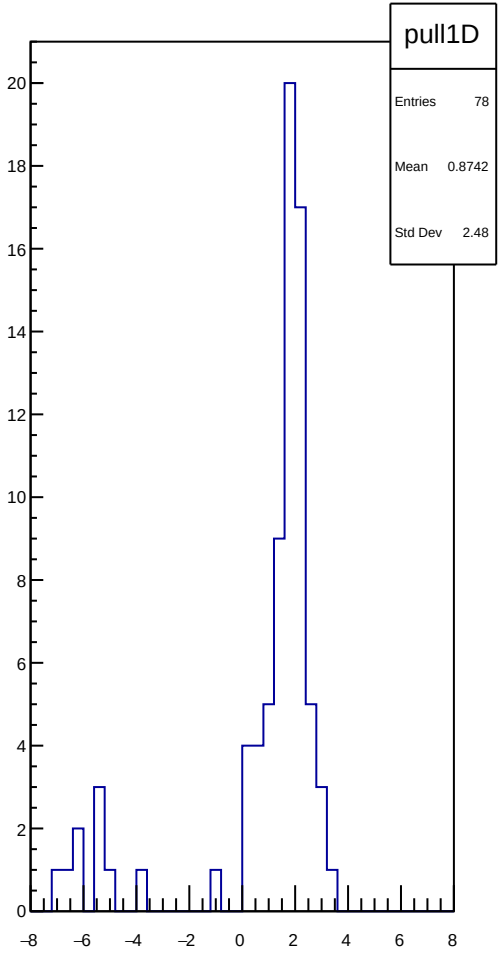

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1604 / 77
p0 747.6 ± 0.6112
860
840
820
800
780
760
740
720
700

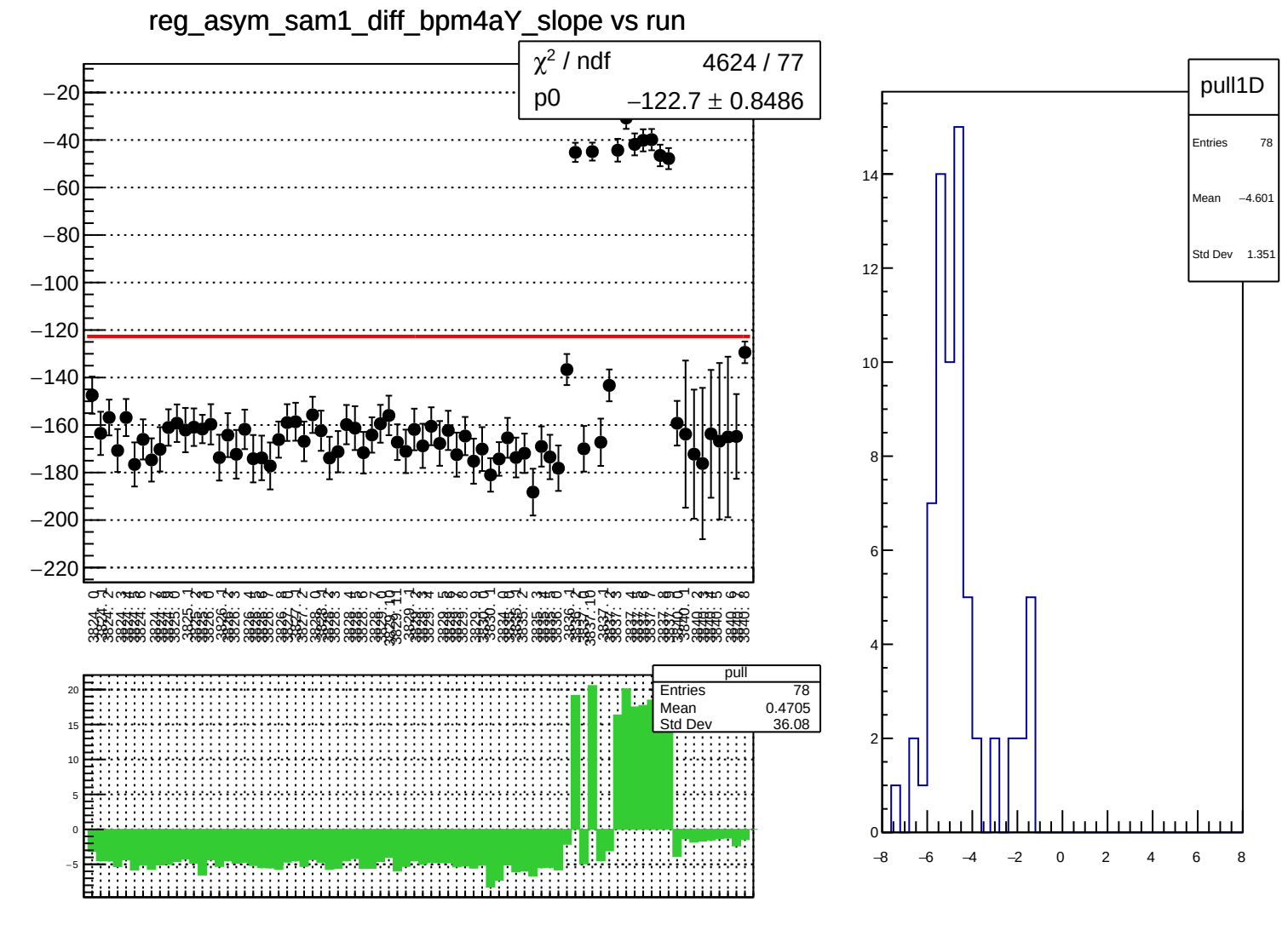

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 83.16 / 77
p0 2742 ± 5228
150
100
50
0
−50
−100
−150
−200
pull
Entries 78
Mean 28.26
Std Dev 64.87
2
1
0
−1
−2

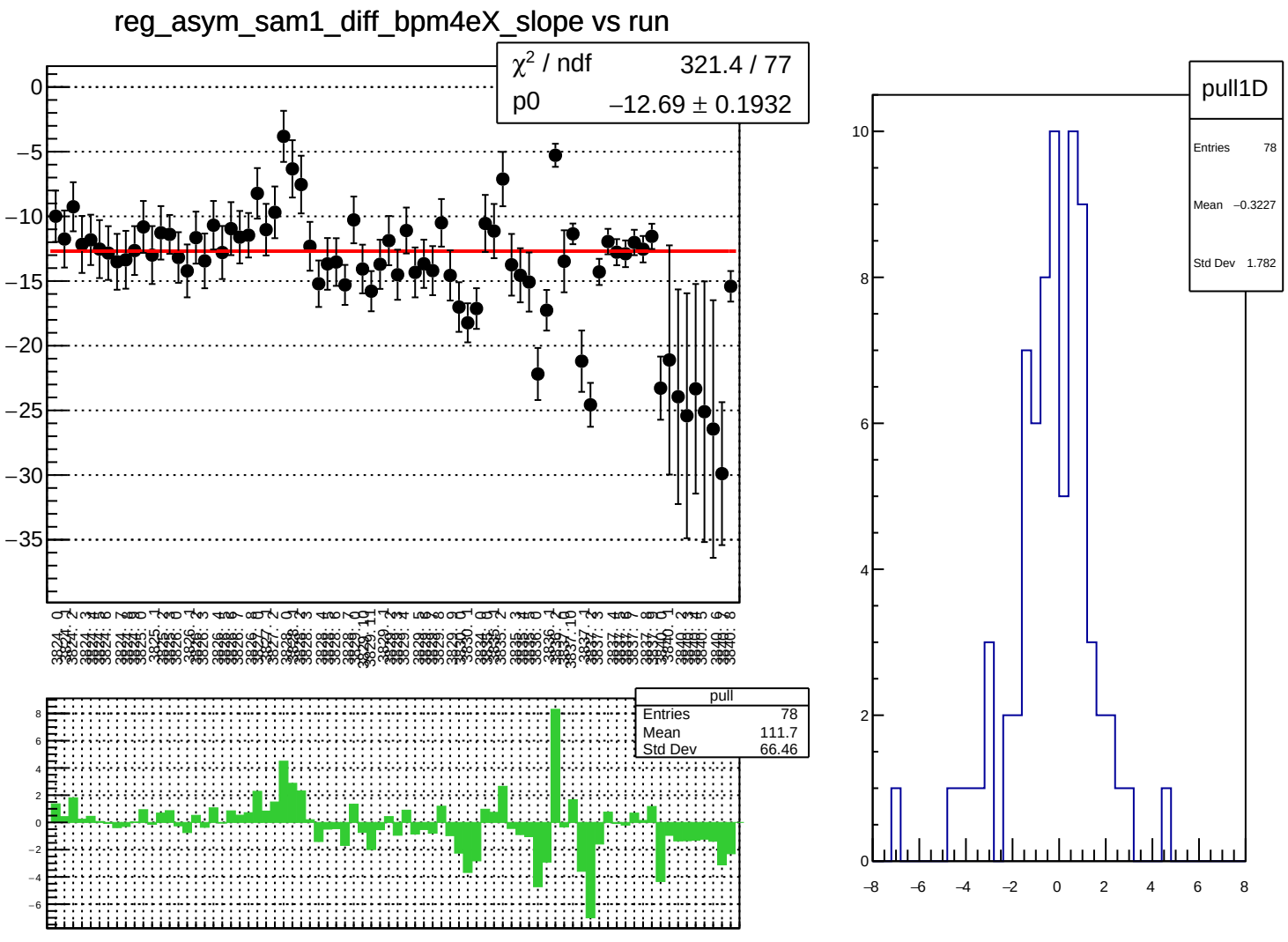

pull1D
Entries 78
Mean 0.01002
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

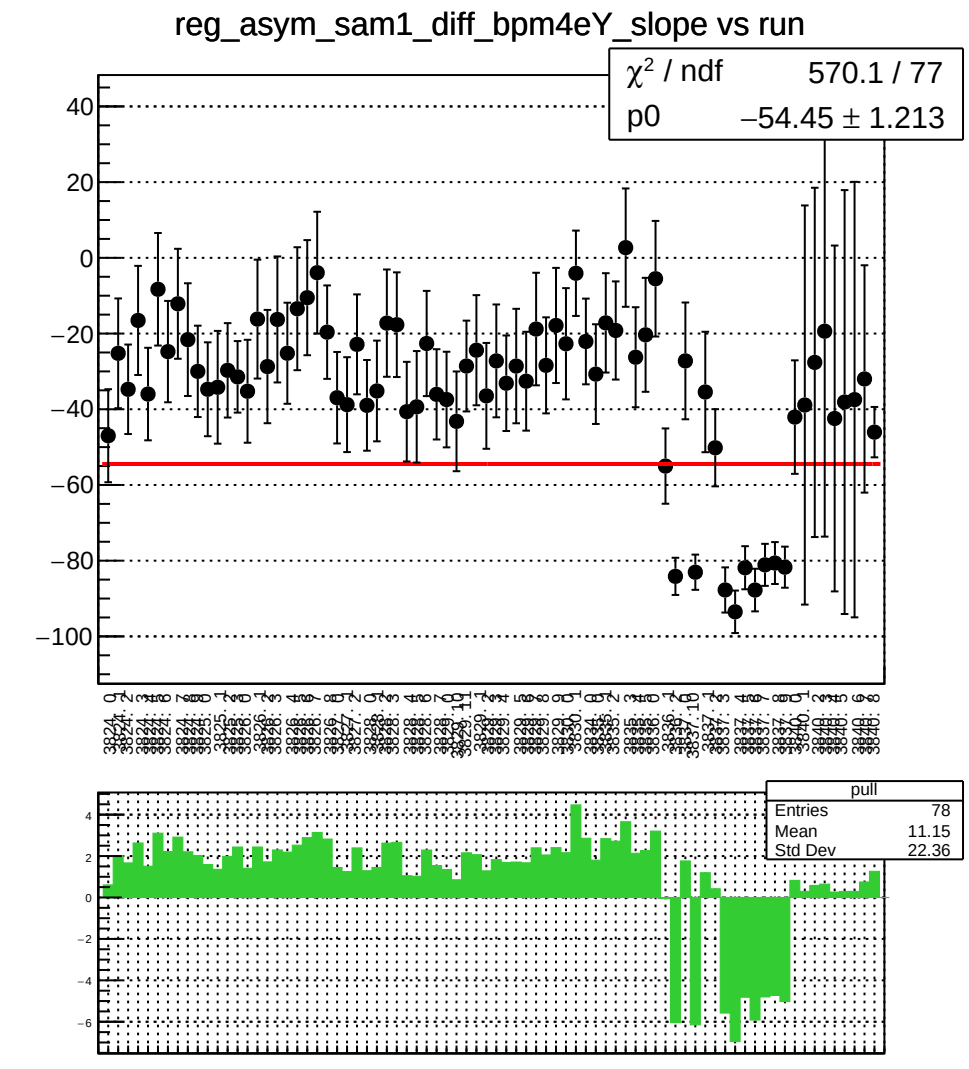

asym_sam_48_dd_correction_rms vs run
χ² / ndf 2.016e+04 / 77
p0 4494 ± 3.697
6000
5500
5000
4500
4000
3500

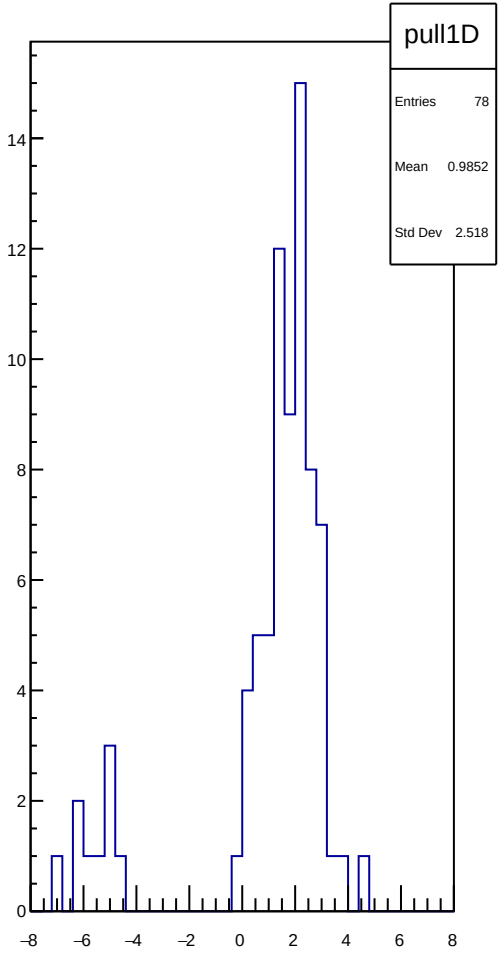

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 539.2 / 77
p0 −34.49 ± 1.067
pull
Entries 78
Mean 7.735
Std Dev 27.42

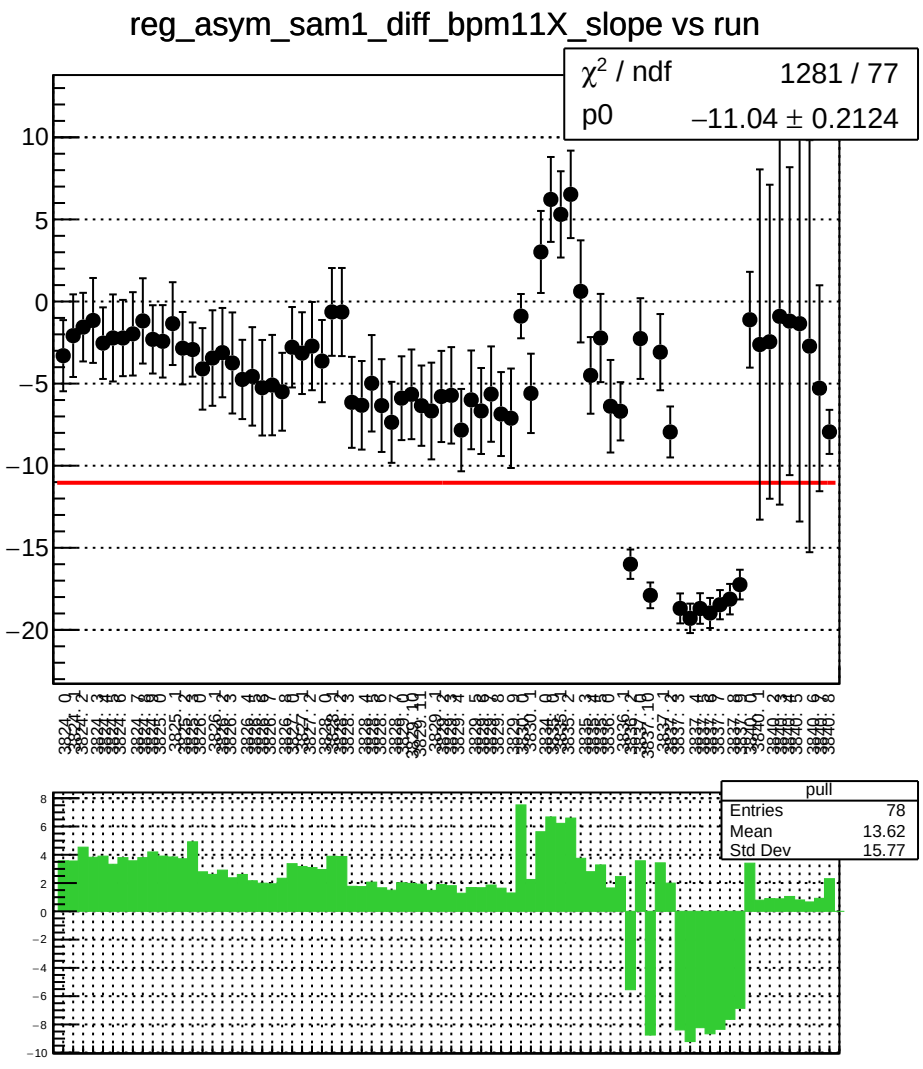

pull1D
Entries 78
Mean 0.8742
Std Dev 2.48

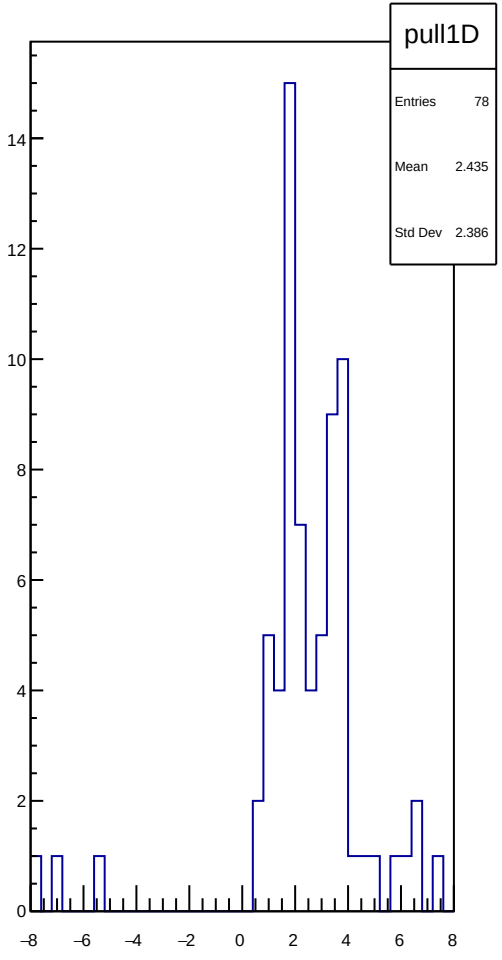

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 4624 / 77
p0 −122.7 ± 0.8486
pull
Entries 78
Mean 0.4705
Std Dev 36.08
pull1D
Entries 78
Mean −4.601
Std Dev 1.351

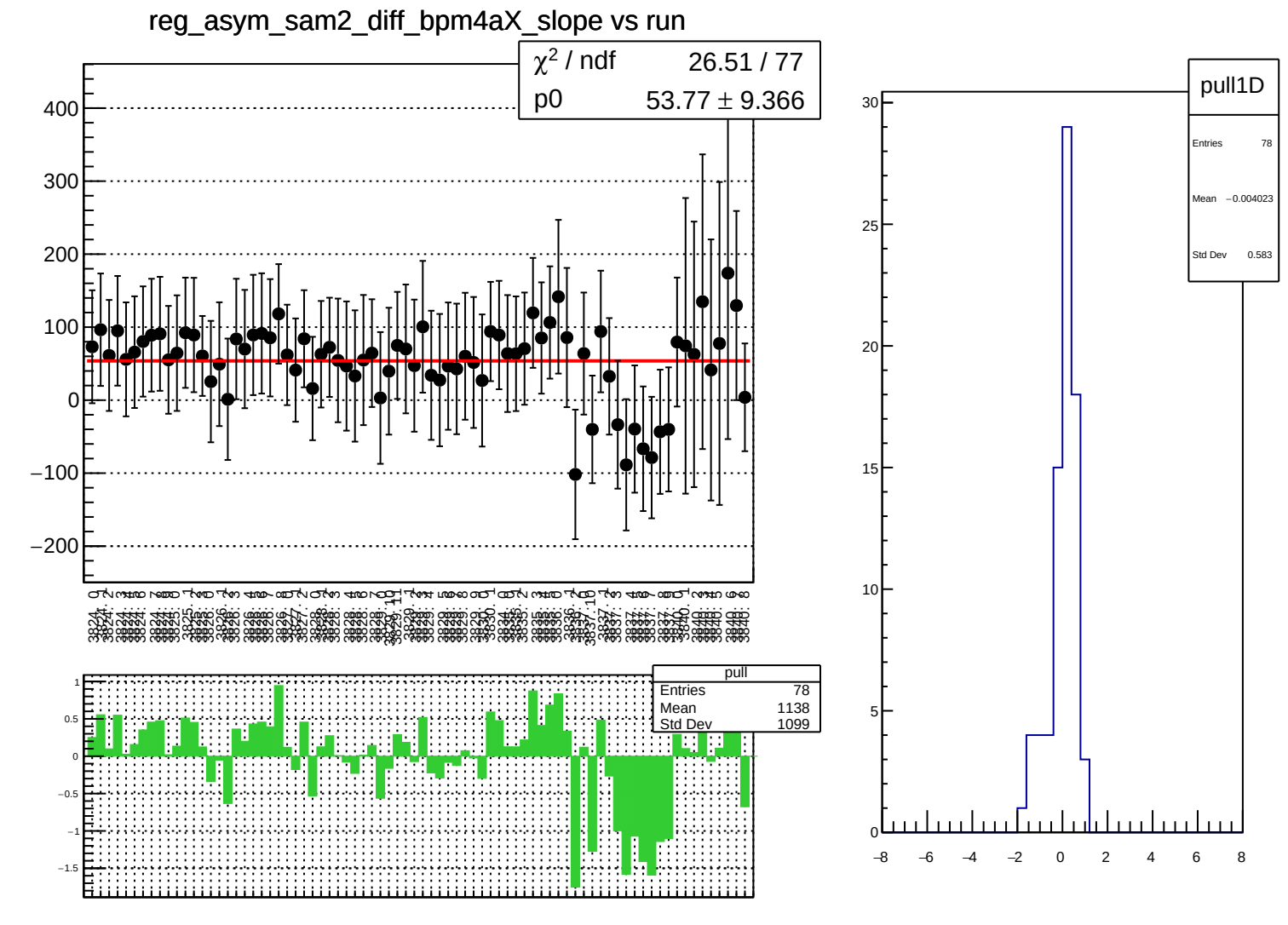

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 321.4 / 77
p0 −12.69 ± 0.1932
pull
Entries 78
Mean 111.7
Std Dev 66.46
pull1D
Entries 78
Mean −0.3227
Std Dev 1.782

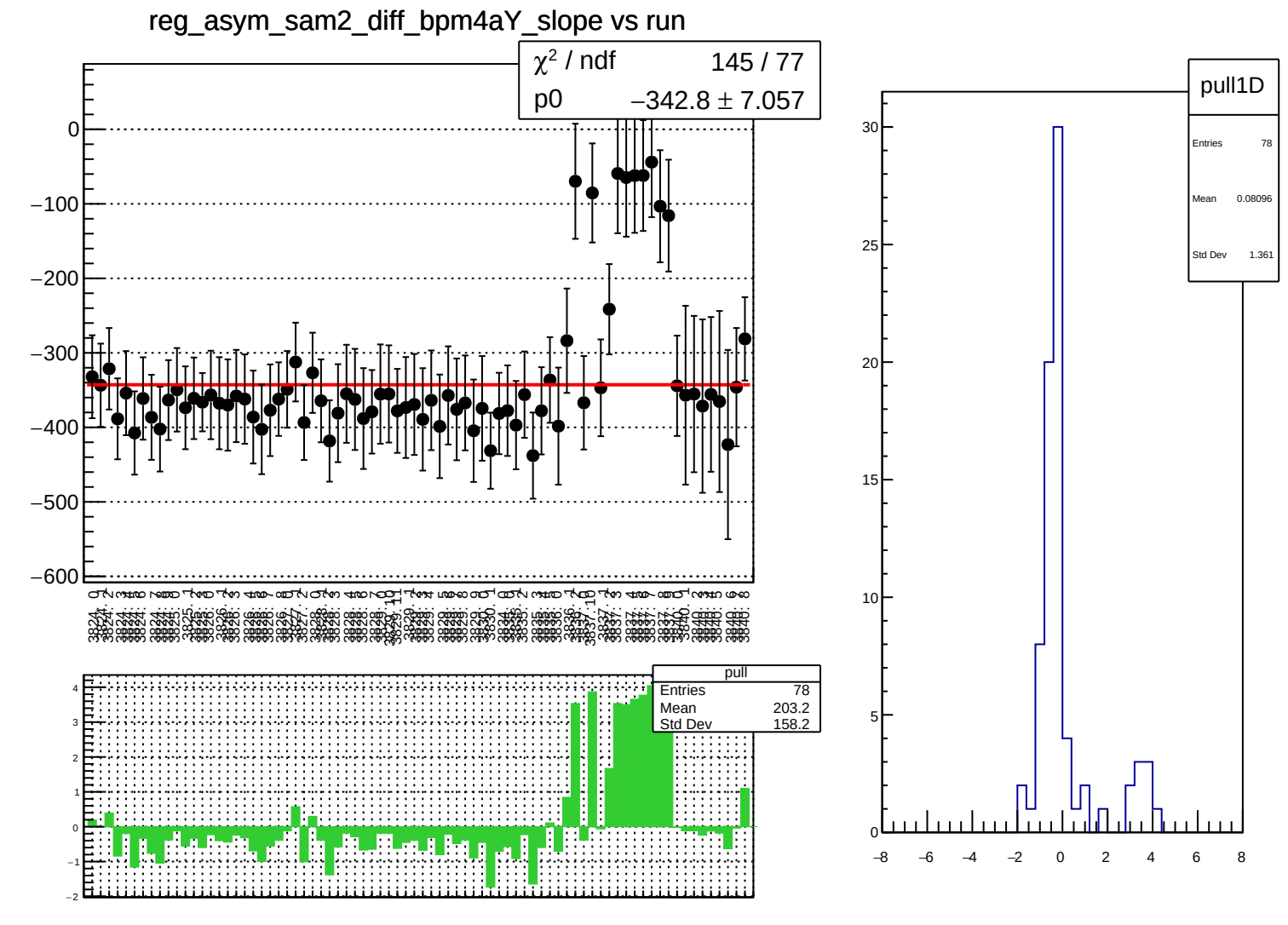

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 570.1 / 77
p0 −54.45 ± 1.213
pull
Entries 78
Mean 11.15
Std Dev 22.36

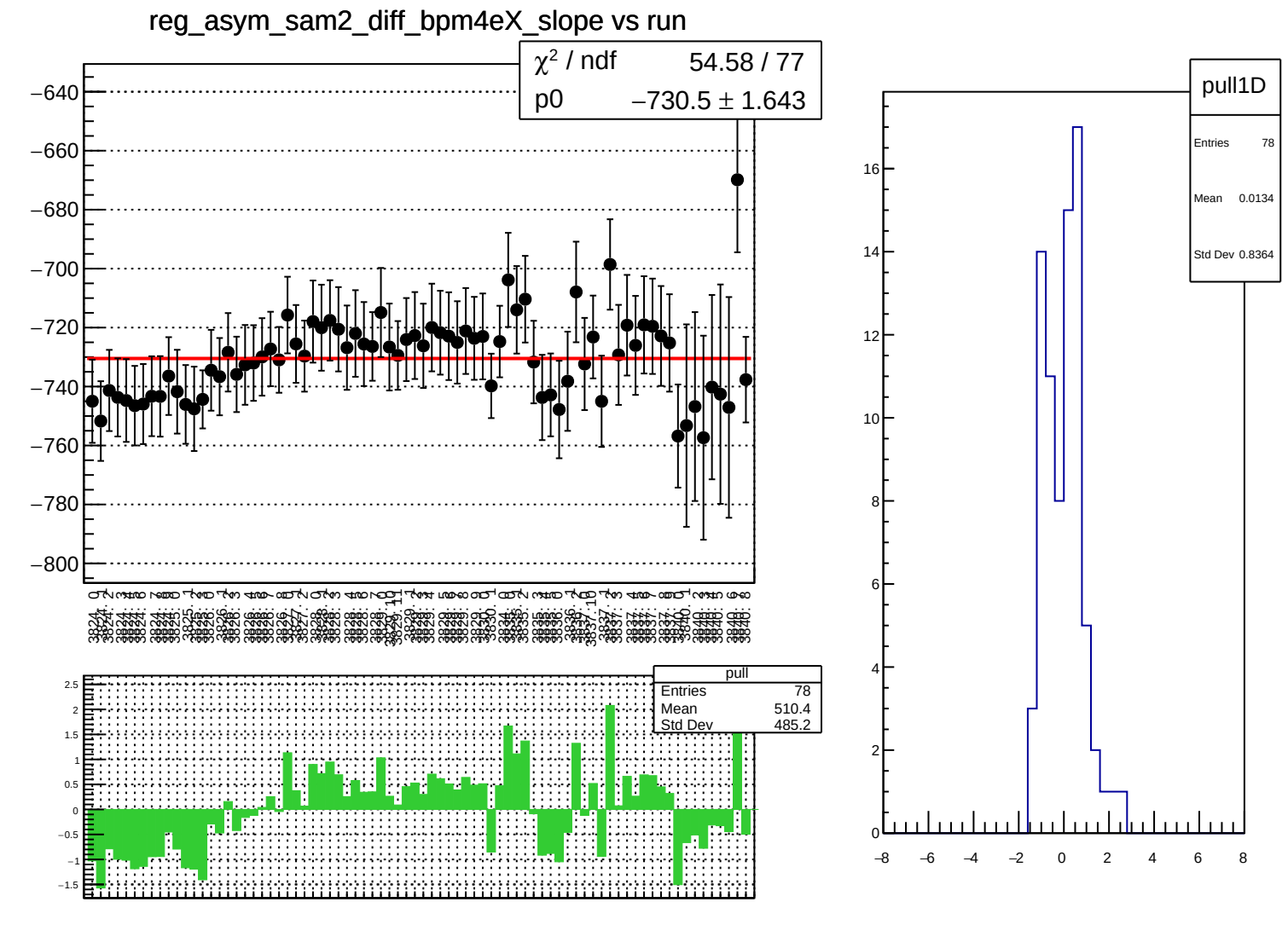

pull1D
Entries 78
Mean 0.9852
Std Dev 2.518

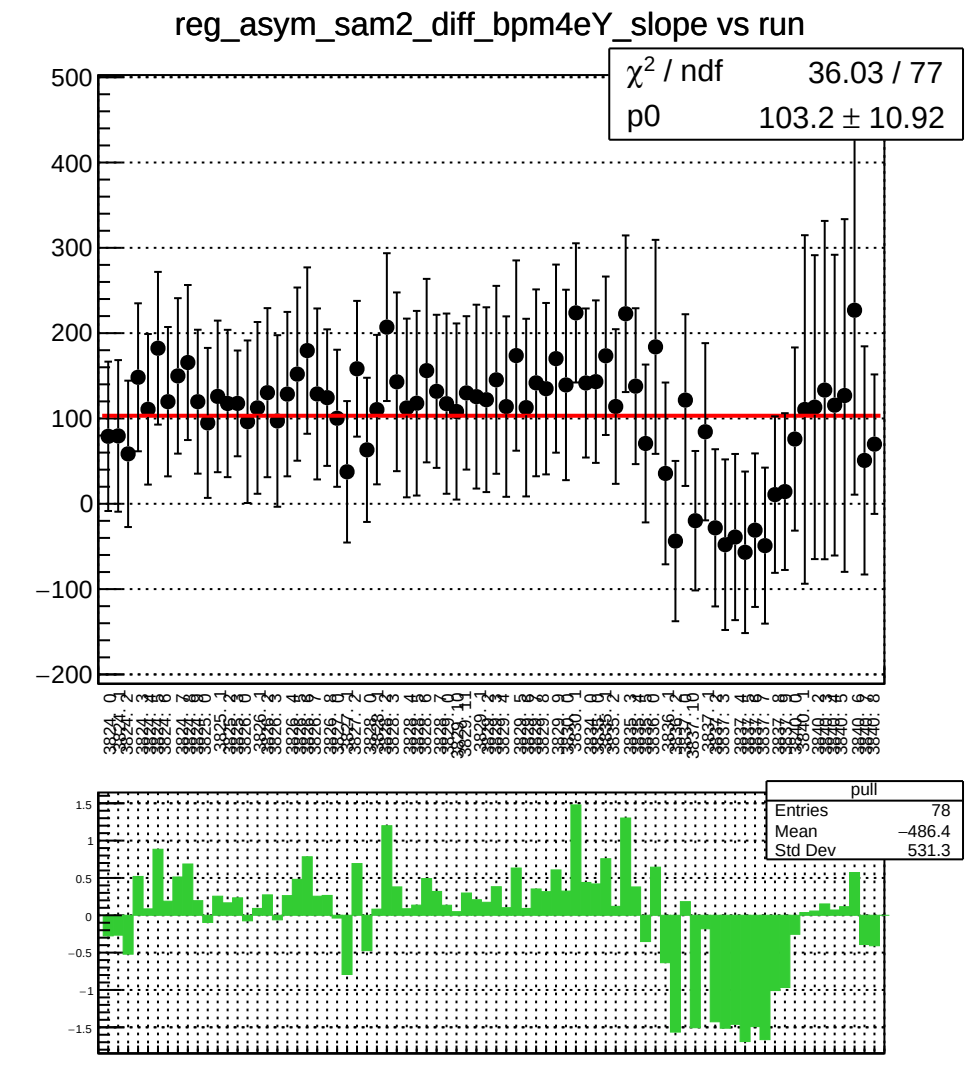

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 1281 / 77
p0 −11.04 ± 0.2124
pull
Entries 78
Mean 13.62
Std Dev 15.77

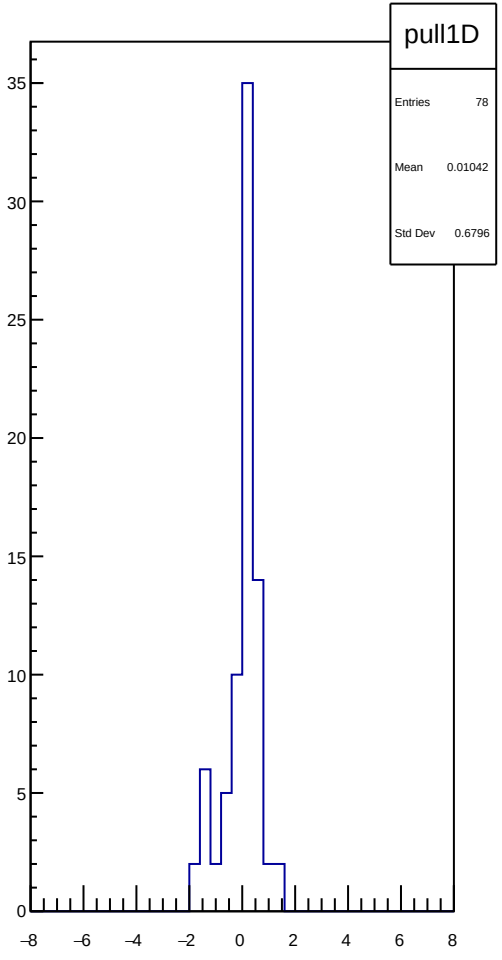

pull1D
Entries 78
Mean 2.435
Std Dev 2.386

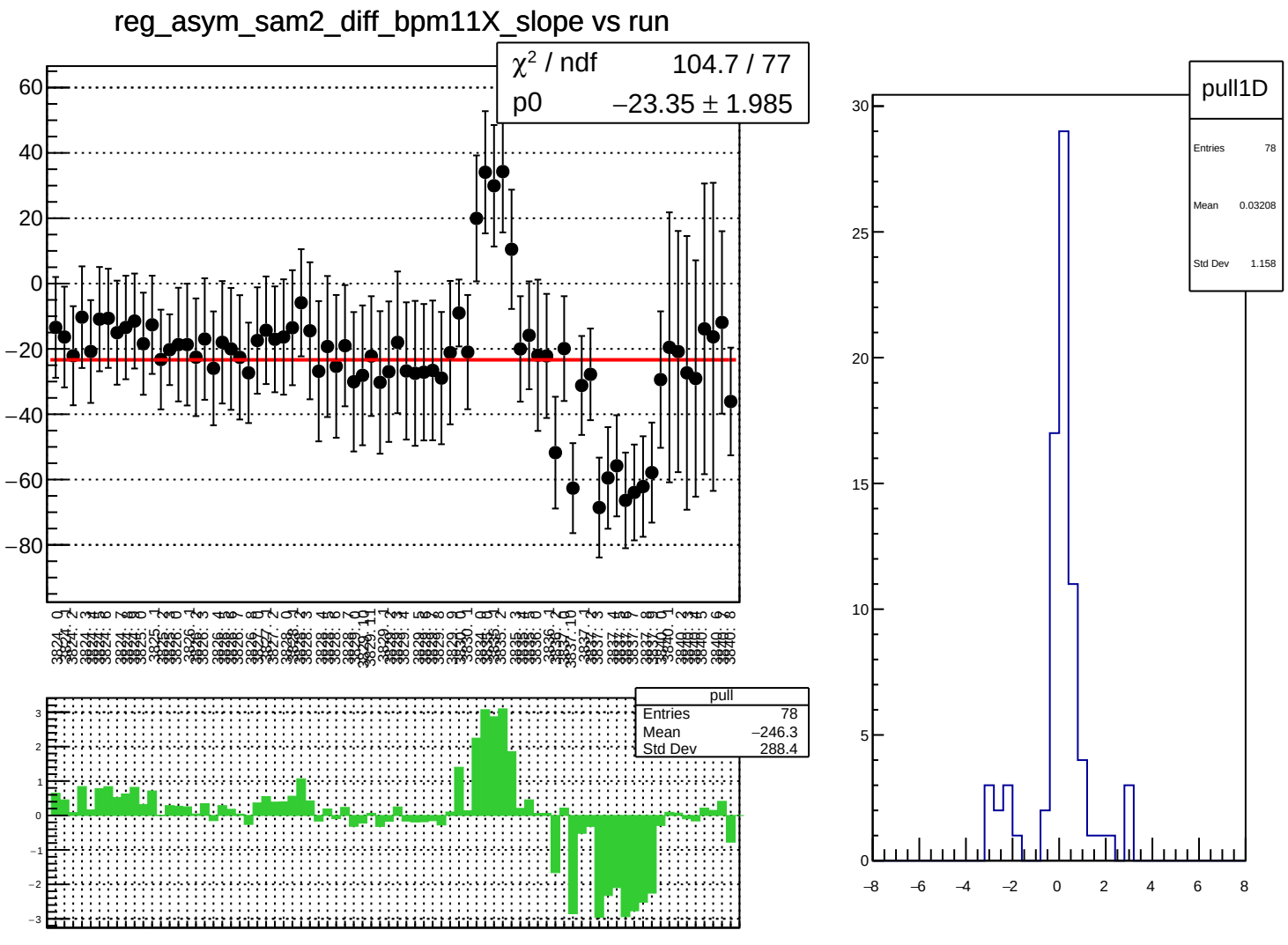

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 26.51 / 77
p0 53.77 ± 9.366
pull
Entries 78
Mean 1138
Std Dev 1099
pull1D
Entries 78
Mean −0.004023
Std Dev 0.583

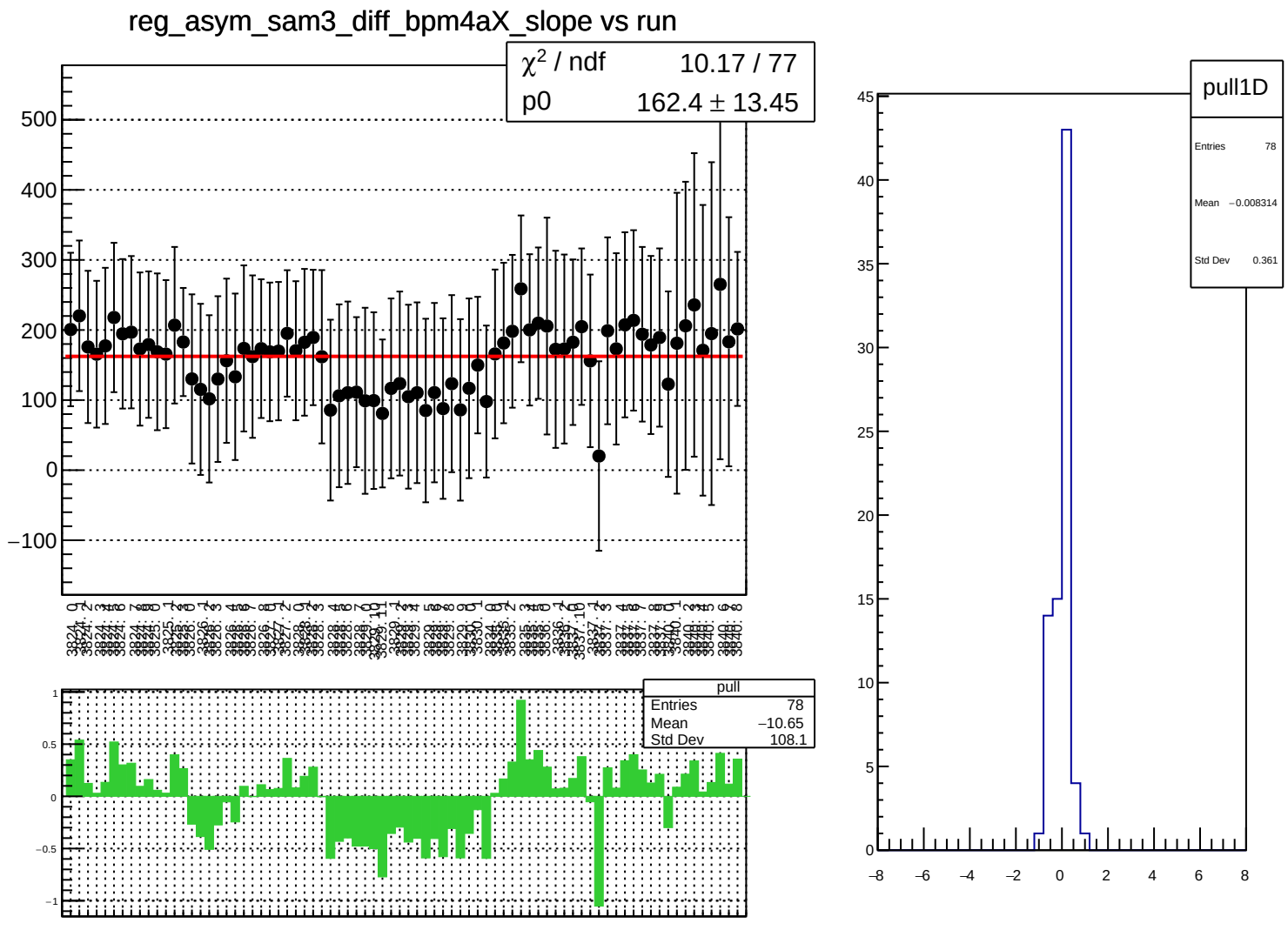

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 145 / 77
p0 −342.8 ± 7.057
pull
Entries 78
Mean 203.2
Std Dev 158.2
pull1D
Entries 78
Mean 0.08096
Std Dev 1.361

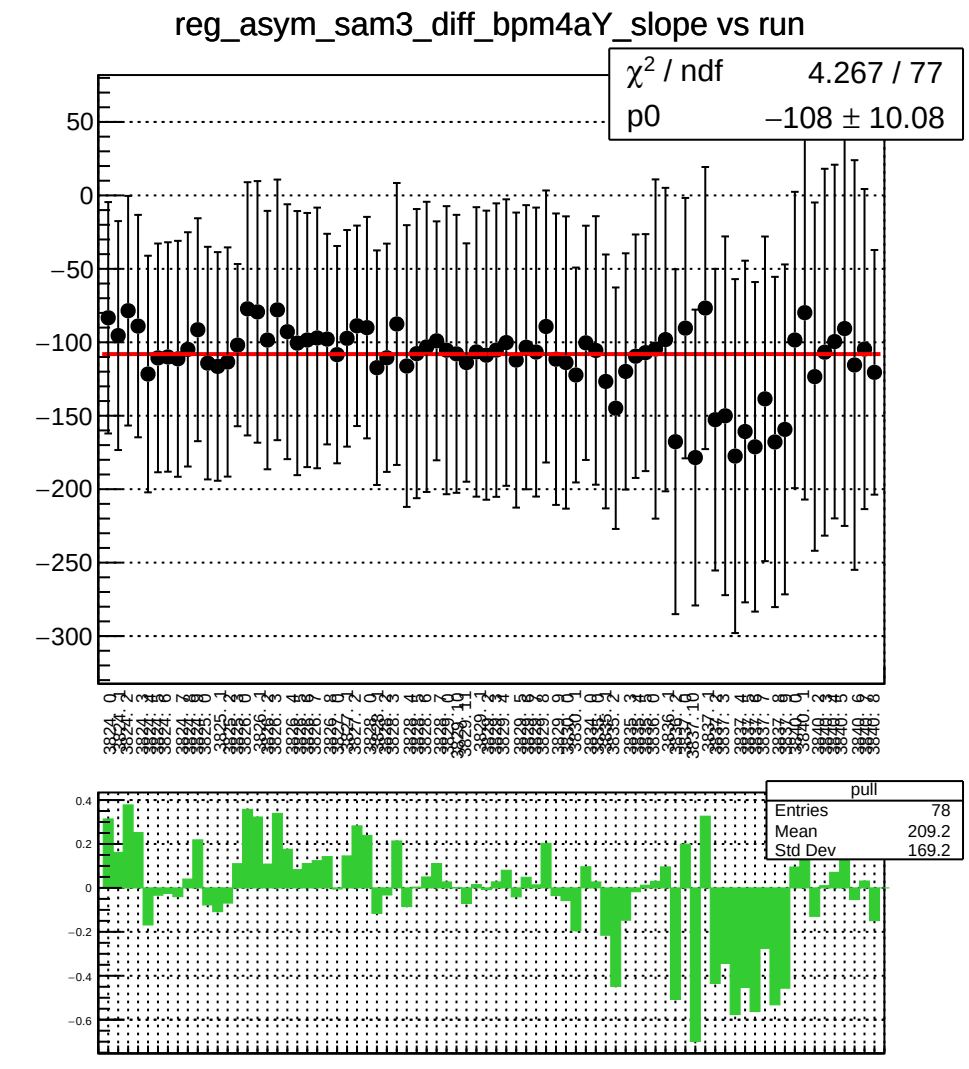

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 54.58 / 77
p0 −730.5 ± 1.643
pull
Entries 78
Mean 510.4
Std Dev 485.2
pull1D
Entries 78
Mean 0.0134
Std Dev 0.8364

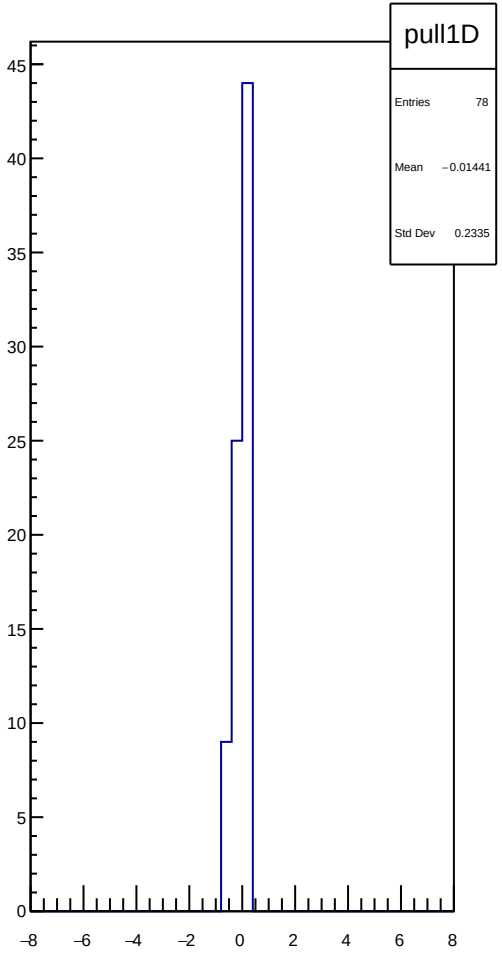

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 36.03 / 77
p0 103.2 ± 10.92
pull
Entries 78
Mean −486.4
Std Dev 531.3

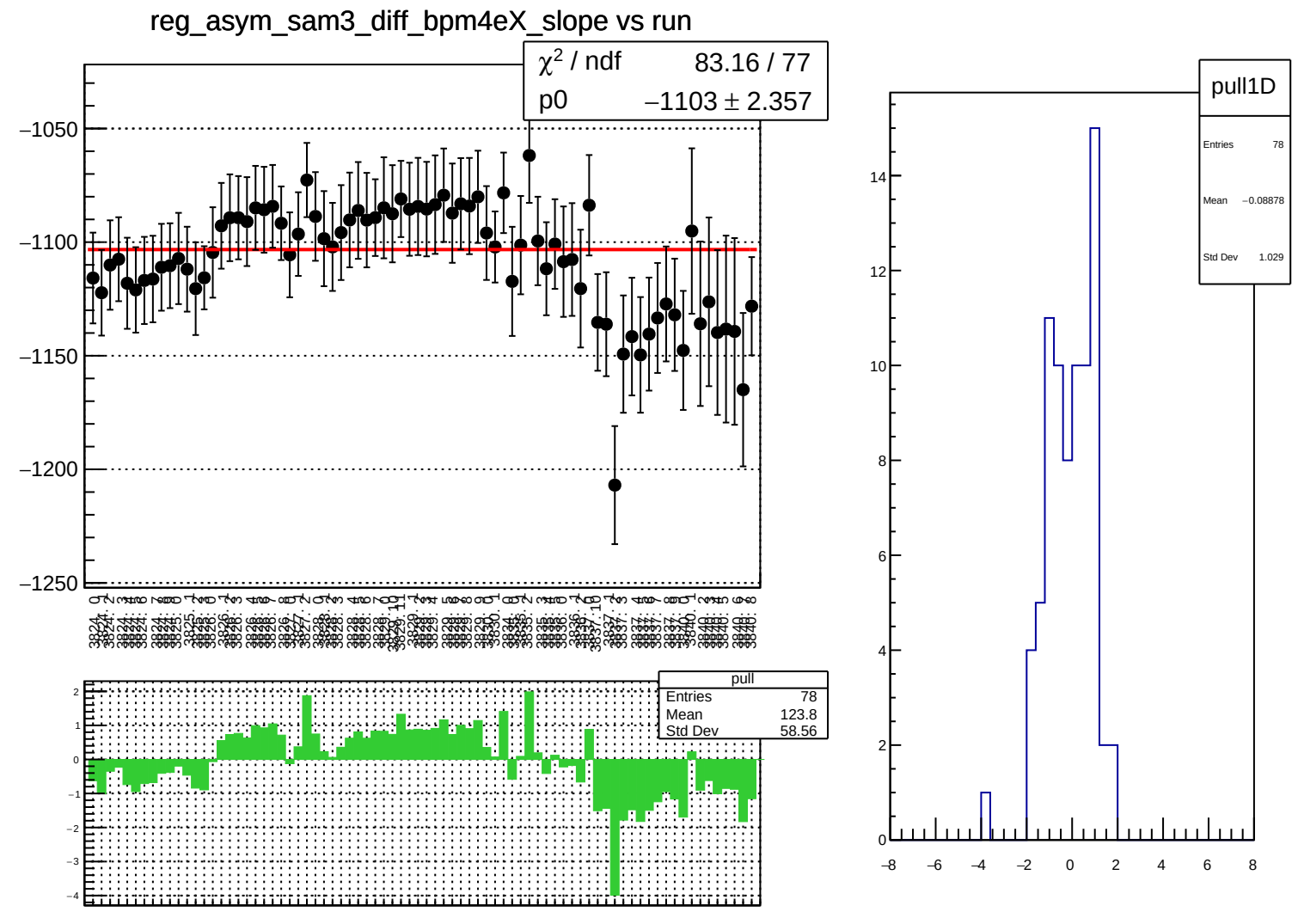

pull1D
Entries 78
Mean 0.01042
Std Dev 0.6796

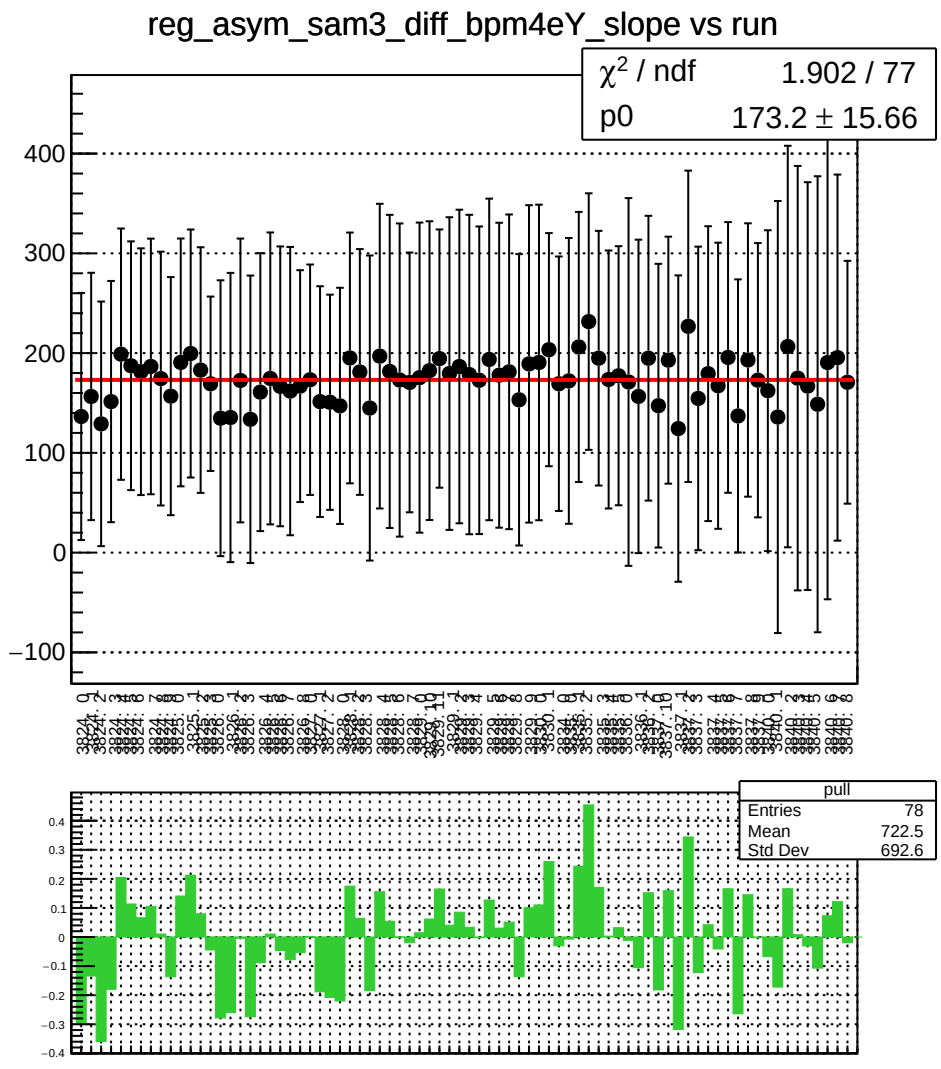

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 104.7 / 77
p0 −23.35 ± 1.985
pull
Entries 78
Mean −246.3
Std Dev 288.4
pull1D
Entries 78
Mean 0.03208
Std Dev 1.158

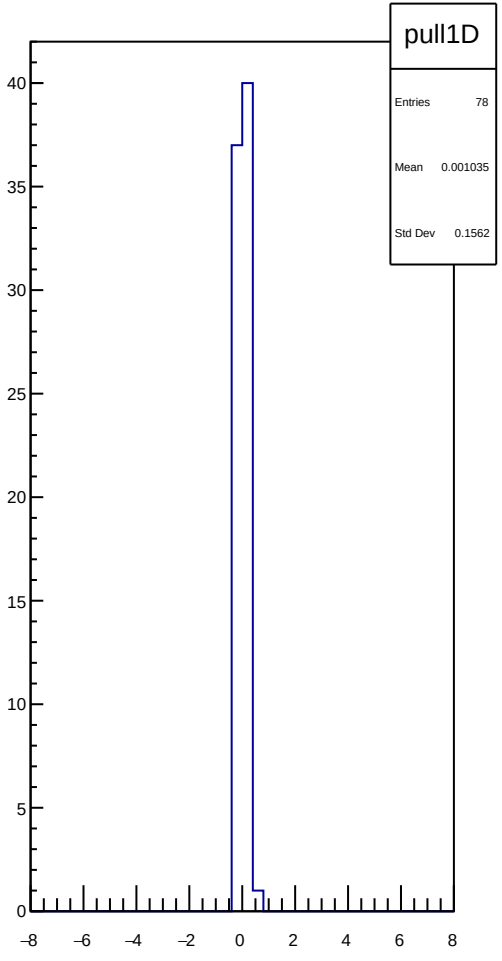

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 10.17 / 77
p0 162.4 ± 13.45
pull
Entries 78
Mean −10.65
Std Dev 108.1
pull1D
Entries 78
Mean −0.008314
Std Dev 0.361

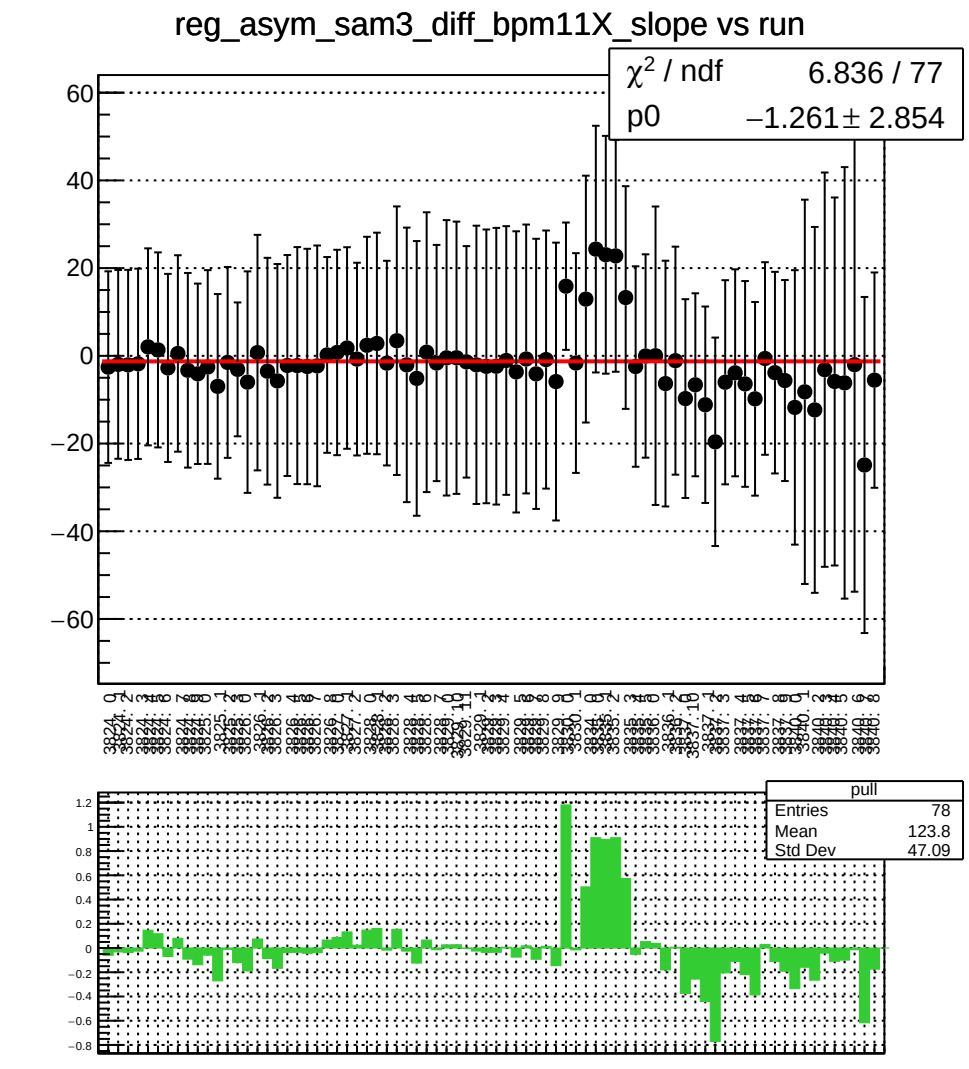

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 4.267 / 77
p0 −108 ± 10.08
pull
Entries 78
Mean 209.2
Std Dev 169.2

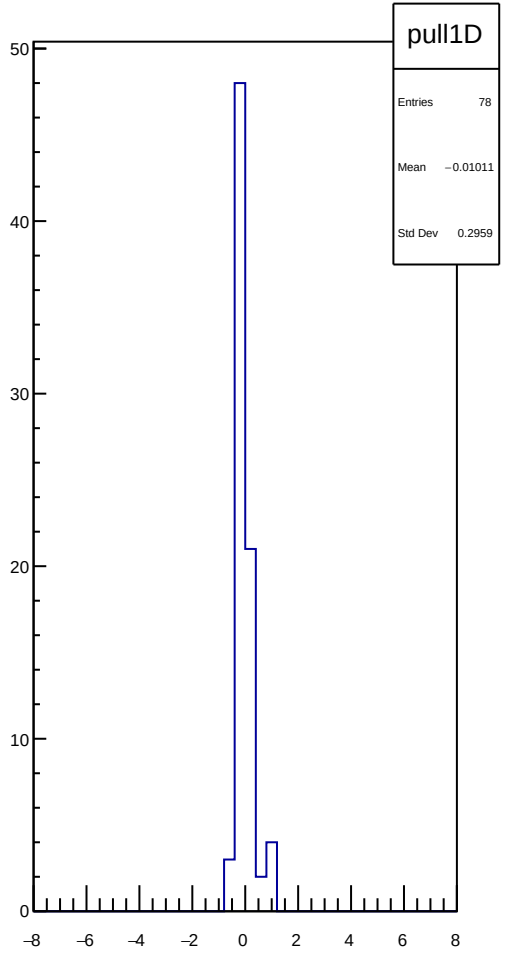

pull1D
Entries 78
Mean −0.01441
Std Dev 0.2335

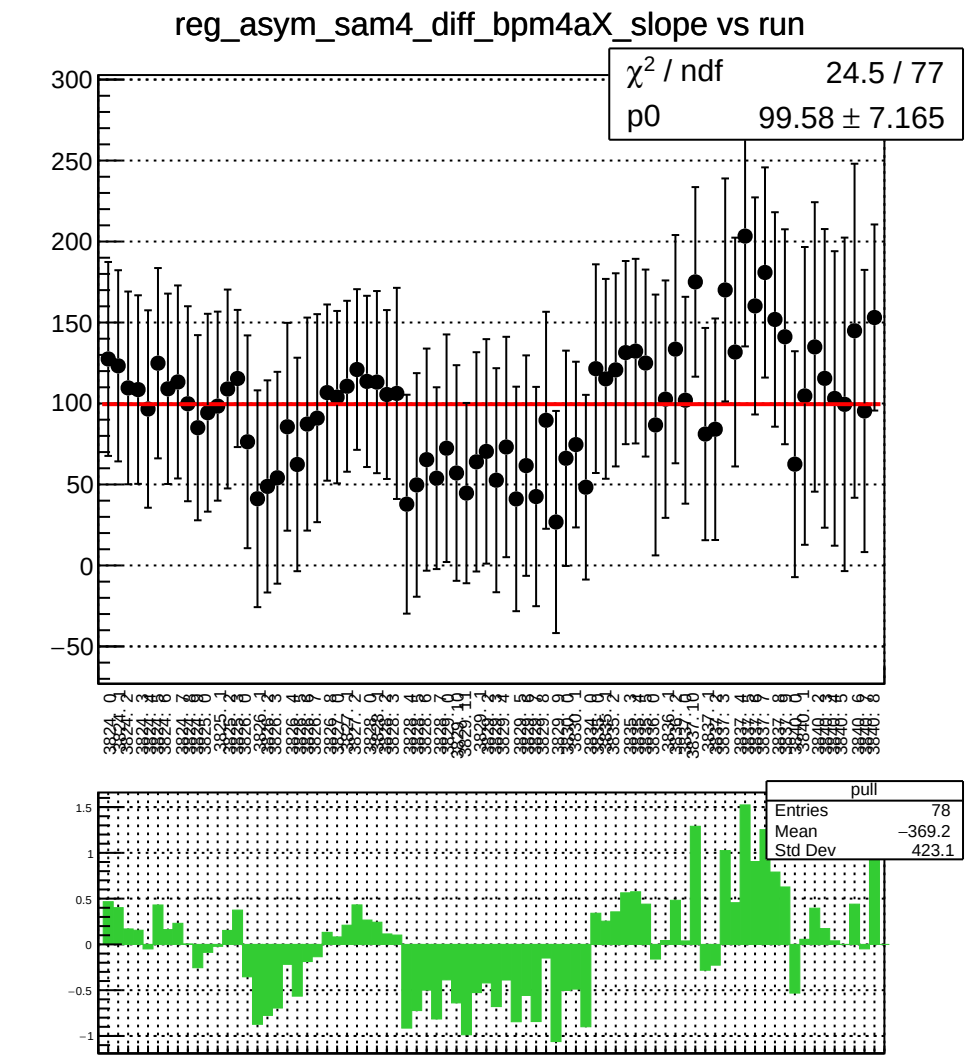

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 83.16 / 77
p0 −1103 ± 2.357
−1050
−1100
−1150
−1200
−1250
pull
Entries 78
Mean 123.8
Std Dev 58.56
pull1D
Entries 78
Mean −0.08878
Std Dev 1.029

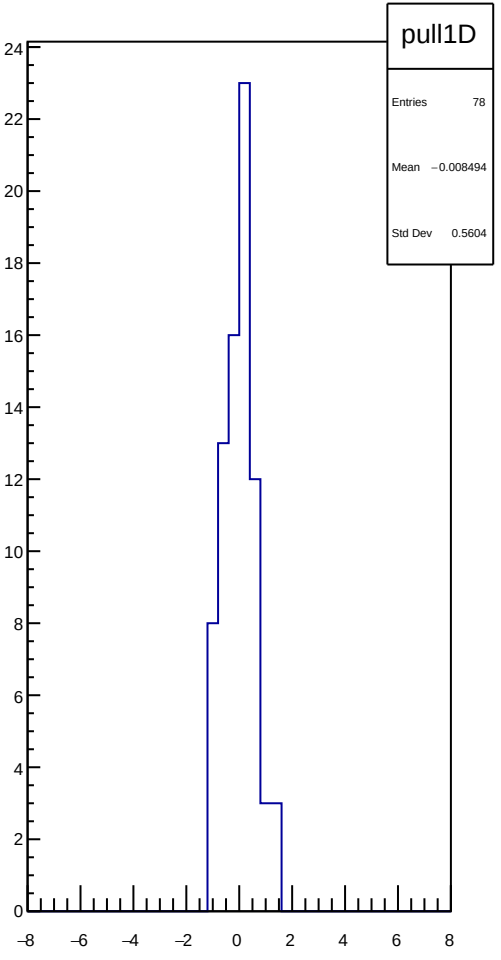

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.902 / 77
p0 173.2 ± 15.66
pull
Entries 78
Mean 722.5
Std Dev 692.6

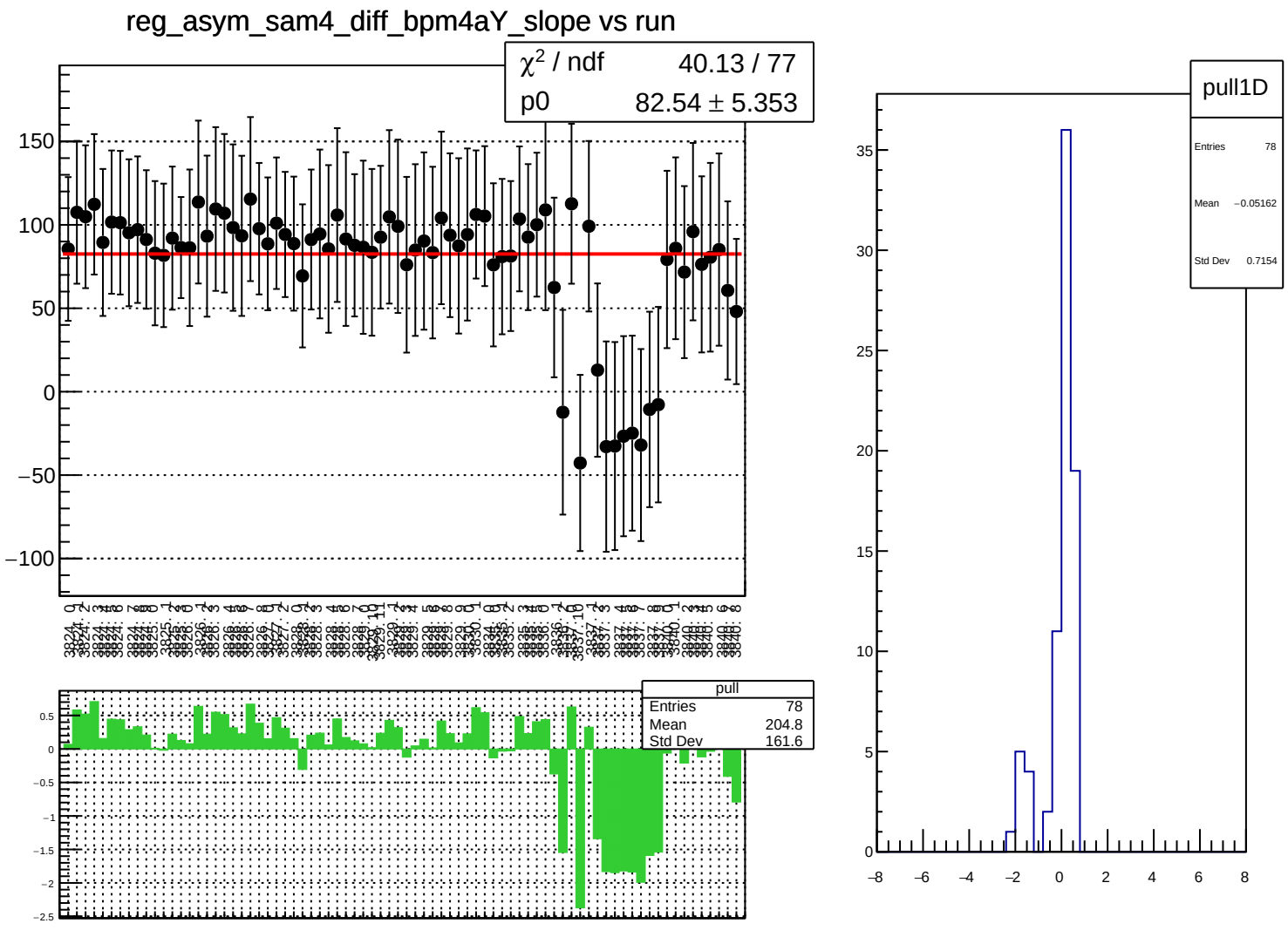

pull1D
Entries 78
Mean 0.001035
Std Dev 0.1562

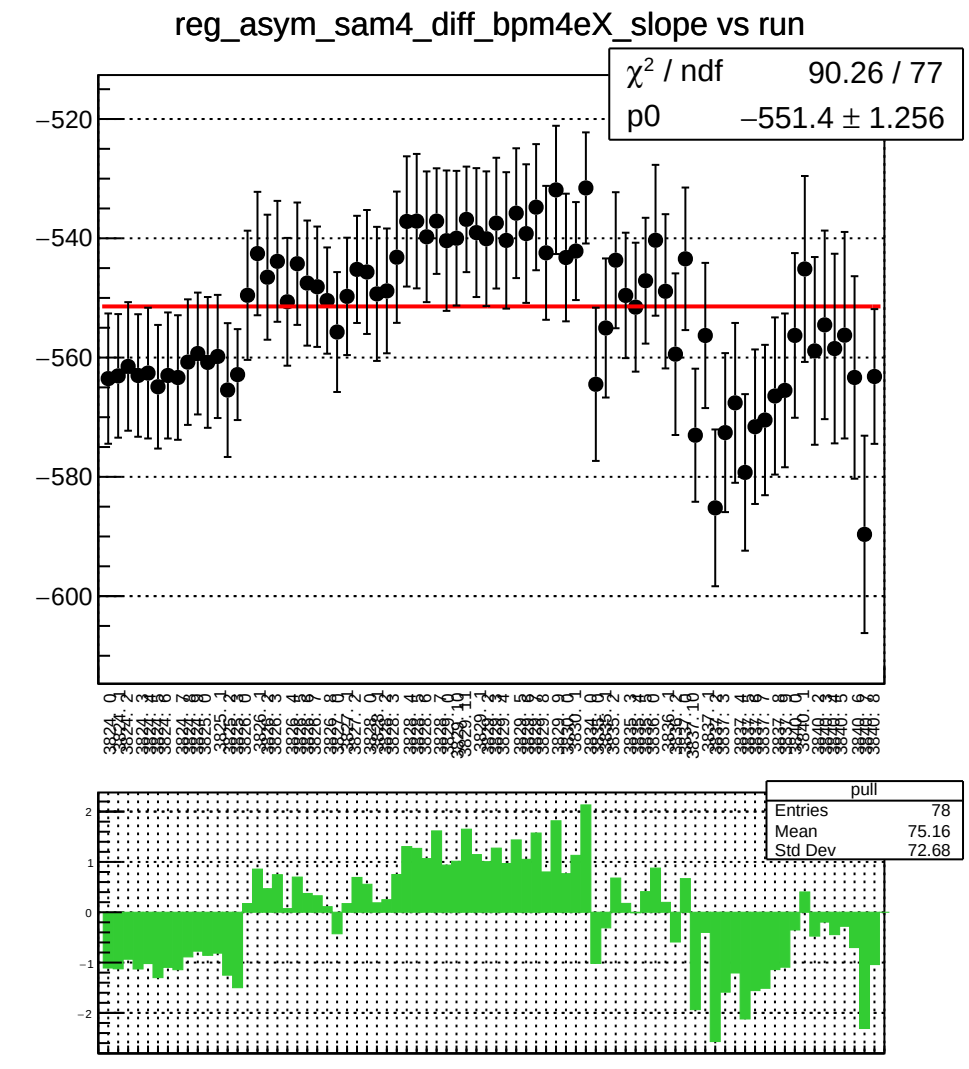

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 6.836 / 77
p0 −1.261± 2.854
pull
Entries 78
Mean 123.8
Std Dev 47.09

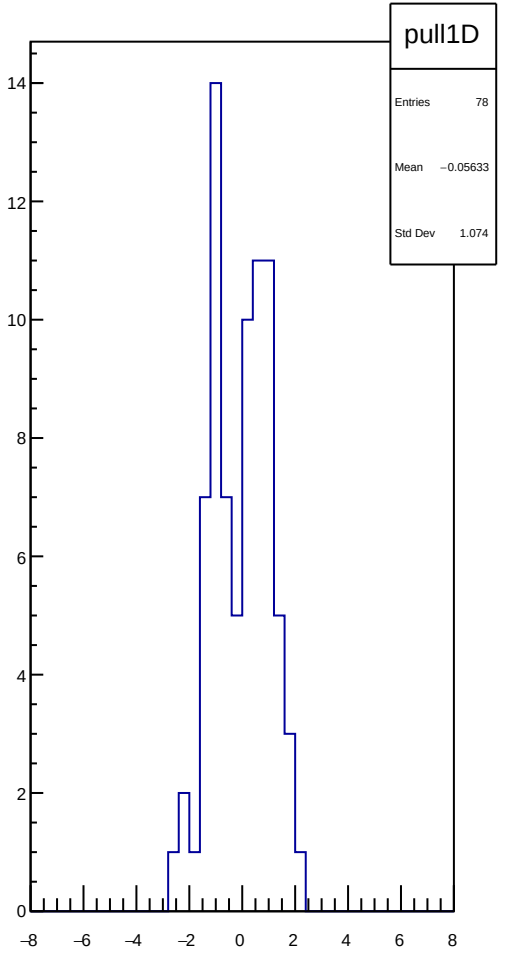

pull1D
Entries 78
Mean −0.01011
Std Dev 0.2959

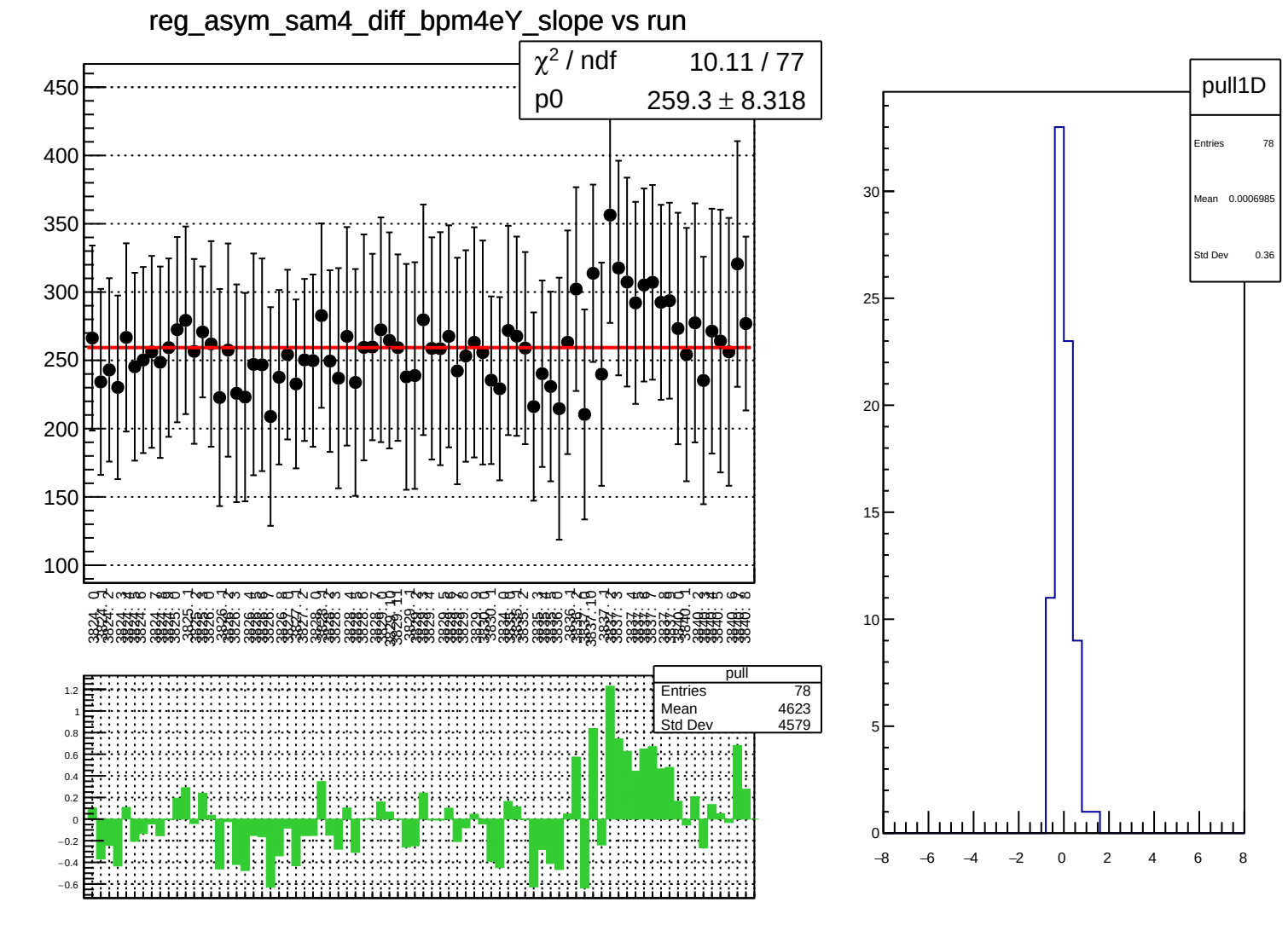

reg_asym_sam4_diff_bpm4aX_slope vs run
χ^2 / ndf 24.5 / 77
p0 99.58 ± 7.165
pull
Entries 78
Mean −369.2
Std Dev 423.1

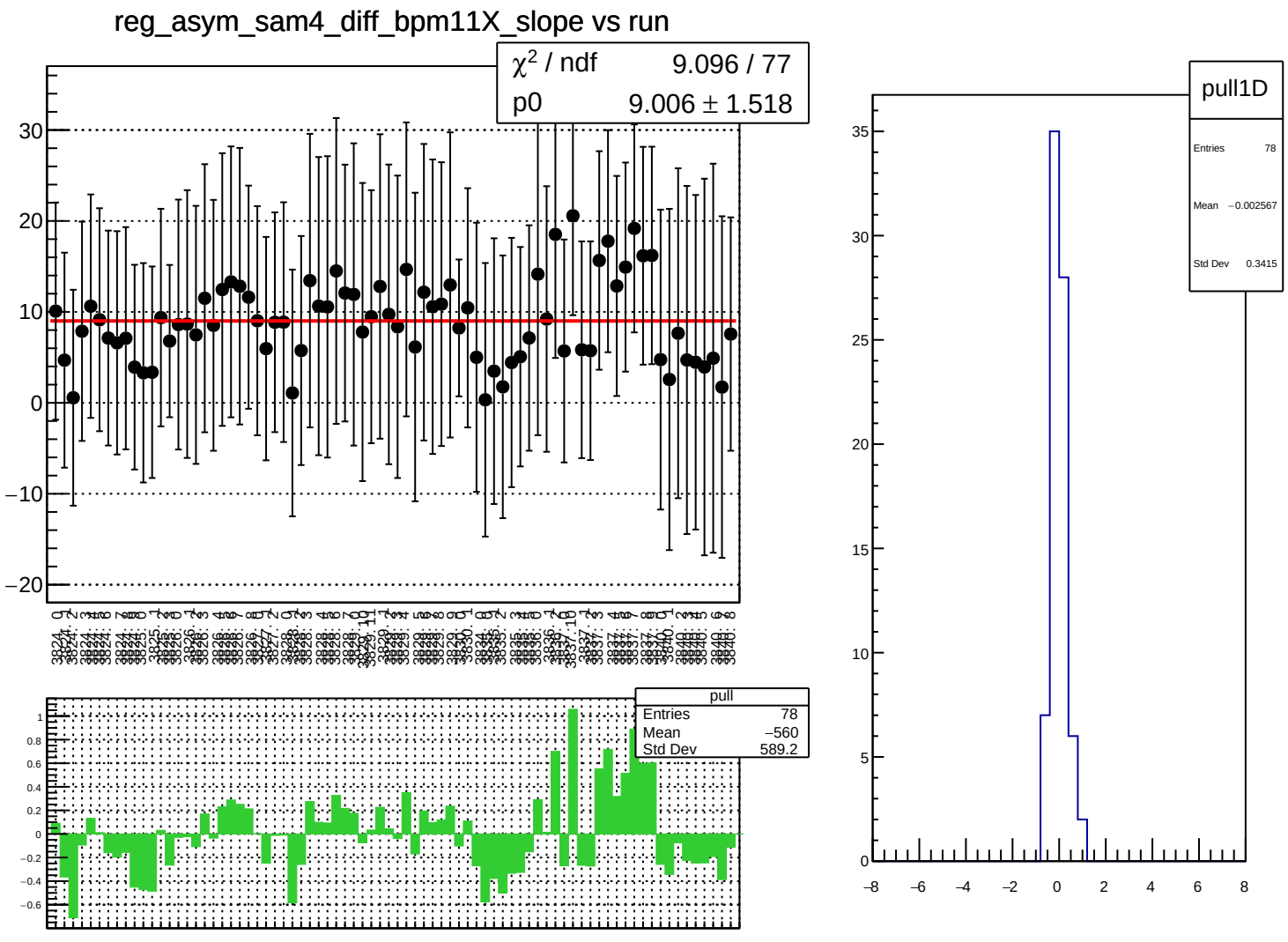

pull1D
Entries 78
Mean −0.008494
Std Dev 0.5604

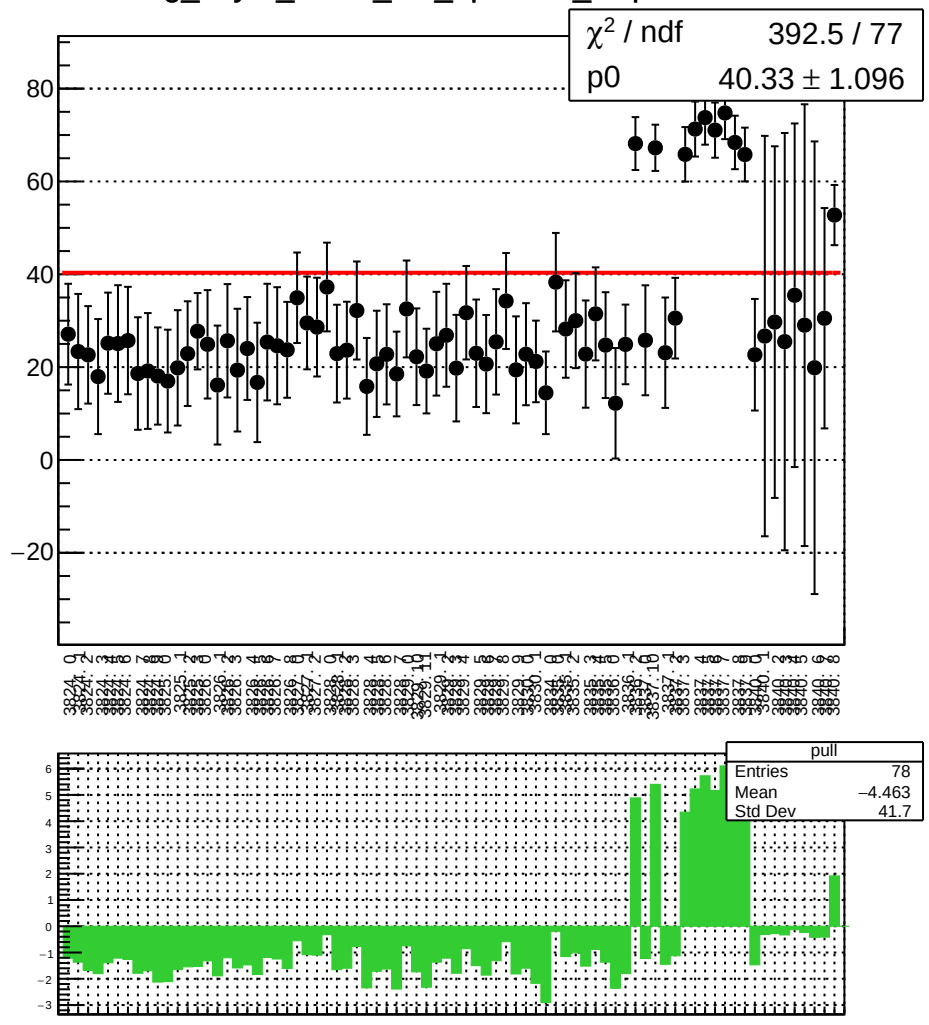

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 40.13 / 77
p0 82.54 ± 5.353
150
100
50
0
−50
−100
pull
Entries 78
Mean 204.8
Std Dev 161.6
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 78
Mean −0.05162
Std Dev 0.7154
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

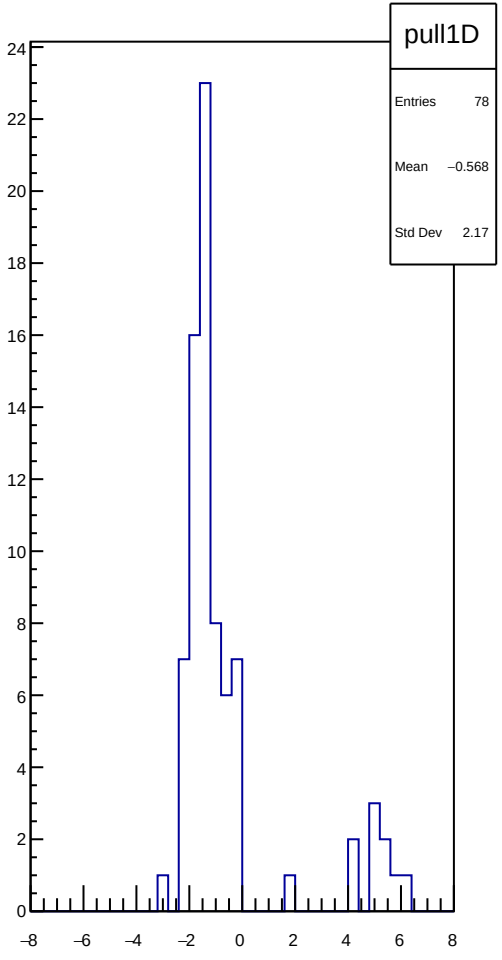

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 90.26 / 77
p0 −551.4 ± 1.256
−520
−540
−560
−580
−600
pull
Entries 78
Mean 75.16
Std Dev 72.68
2
1
0
−1
−2

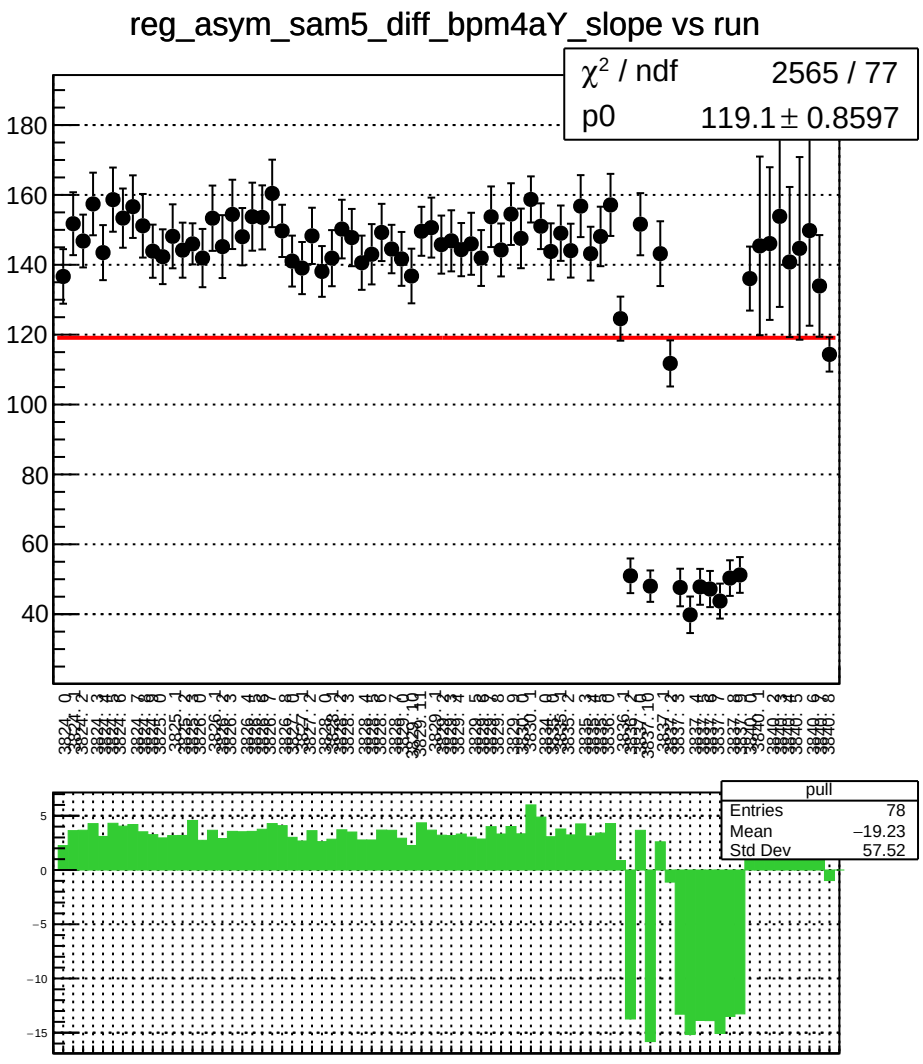

pull1D
Entries 78
Mean −0.05633
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

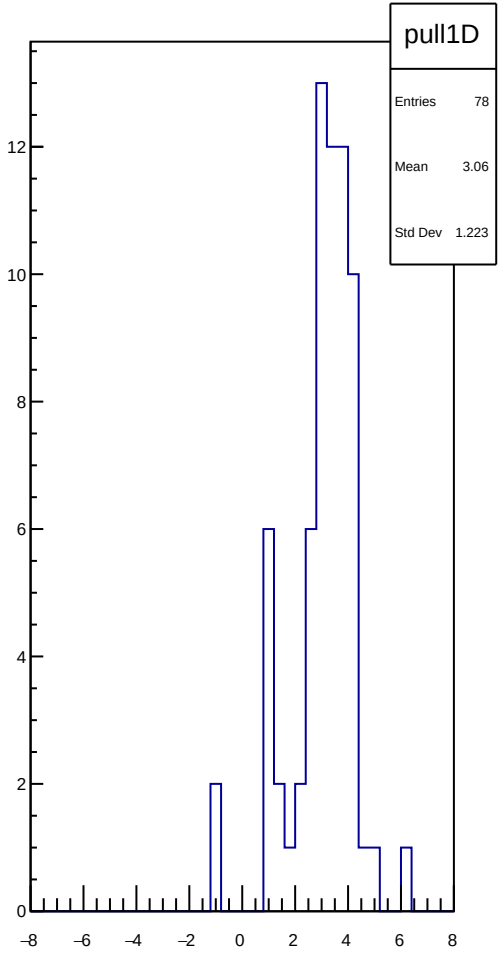

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 10.11 / 77
p0 259.3 ± 8.318
pull
Entries 78
Mean 4623
Std Dev 4579
pull1D
Entries 78
Mean 0.0006985
Std Dev 0.36

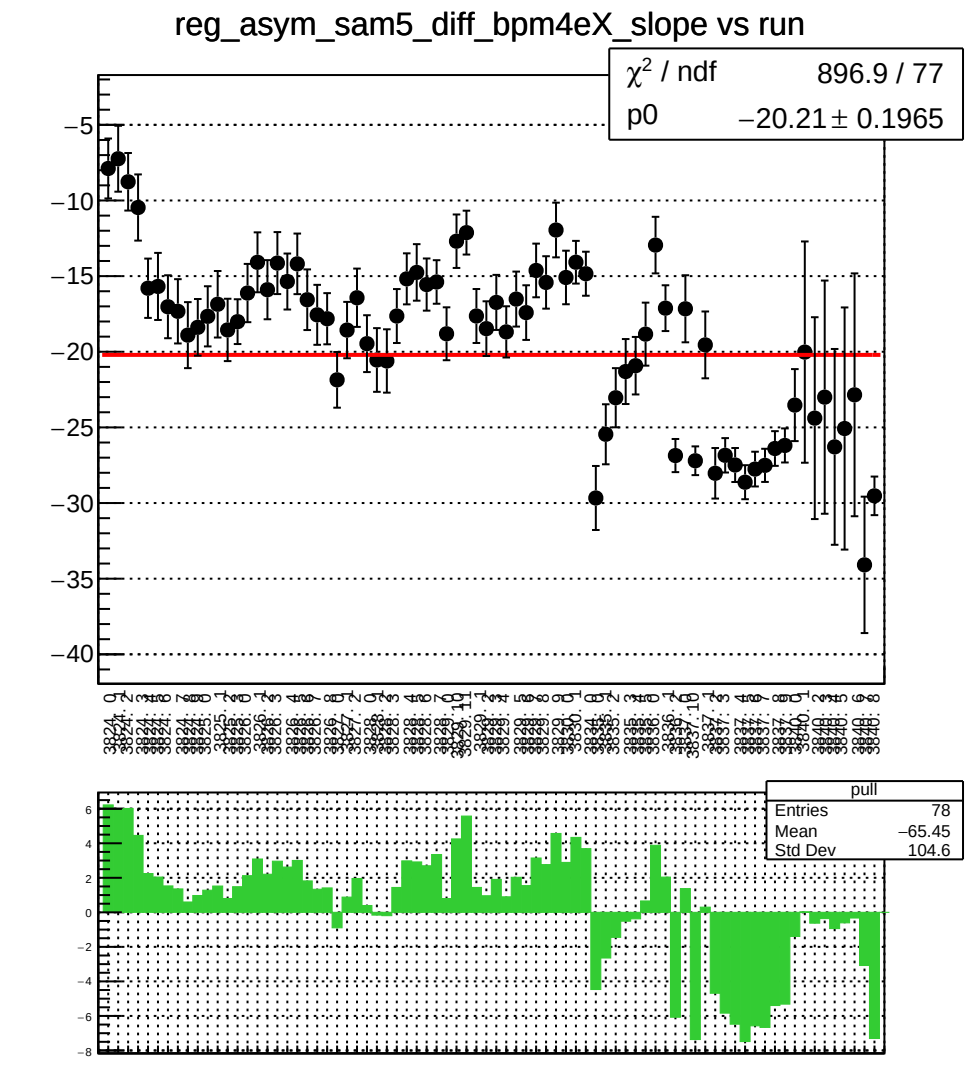

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 9.096 / 77
p0 9.006 ± 1.518
pull
Entries 78
Mean −560
Std Dev 589.2
pull1D
Entries 78
Mean −0.002567
Std Dev 0.3415

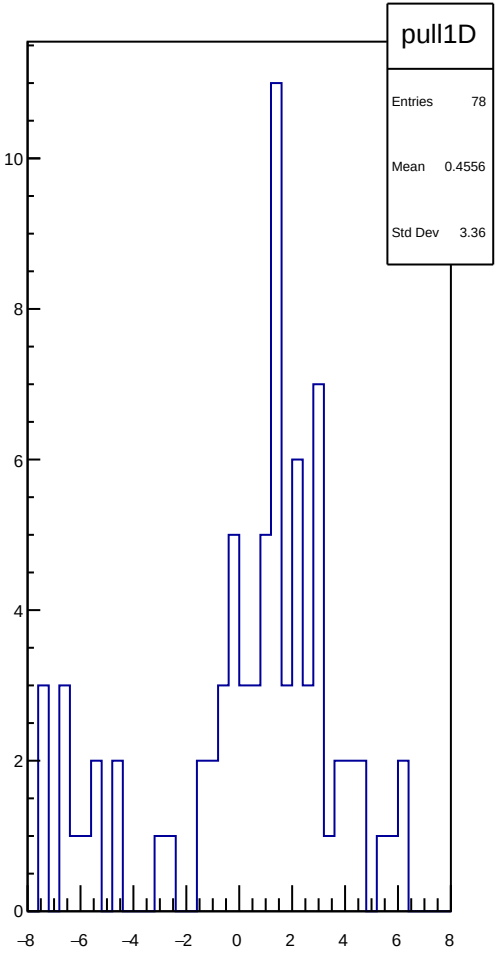

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 392.5 / 77
p0 40.33 ± 1.096
pull
Entries 78
Mean −4.463
Std Dev 41.7

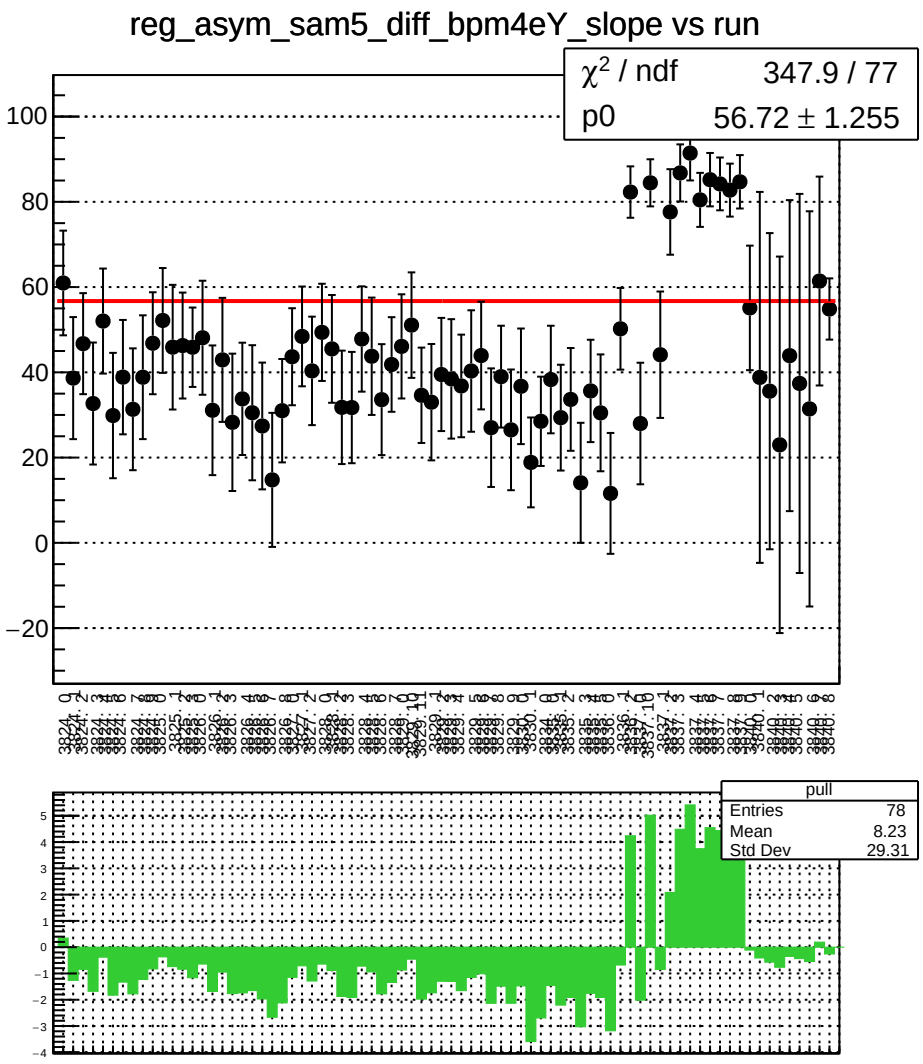

pull1D
Entries 78
Mean −0.568
Std Dev 2.17

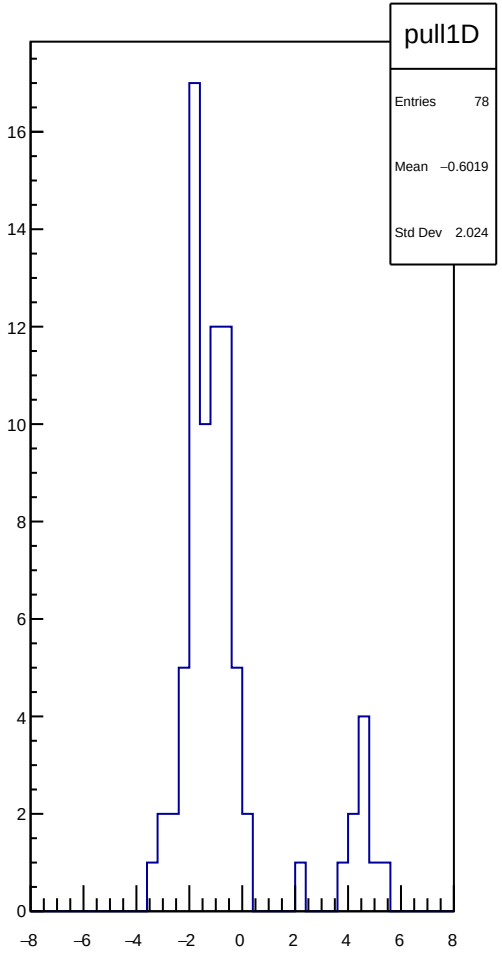

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 2565 / 77
p0 119.1 ± 0.8597
pull
Entries 78
Mean −19.23
Std Dev 57.52

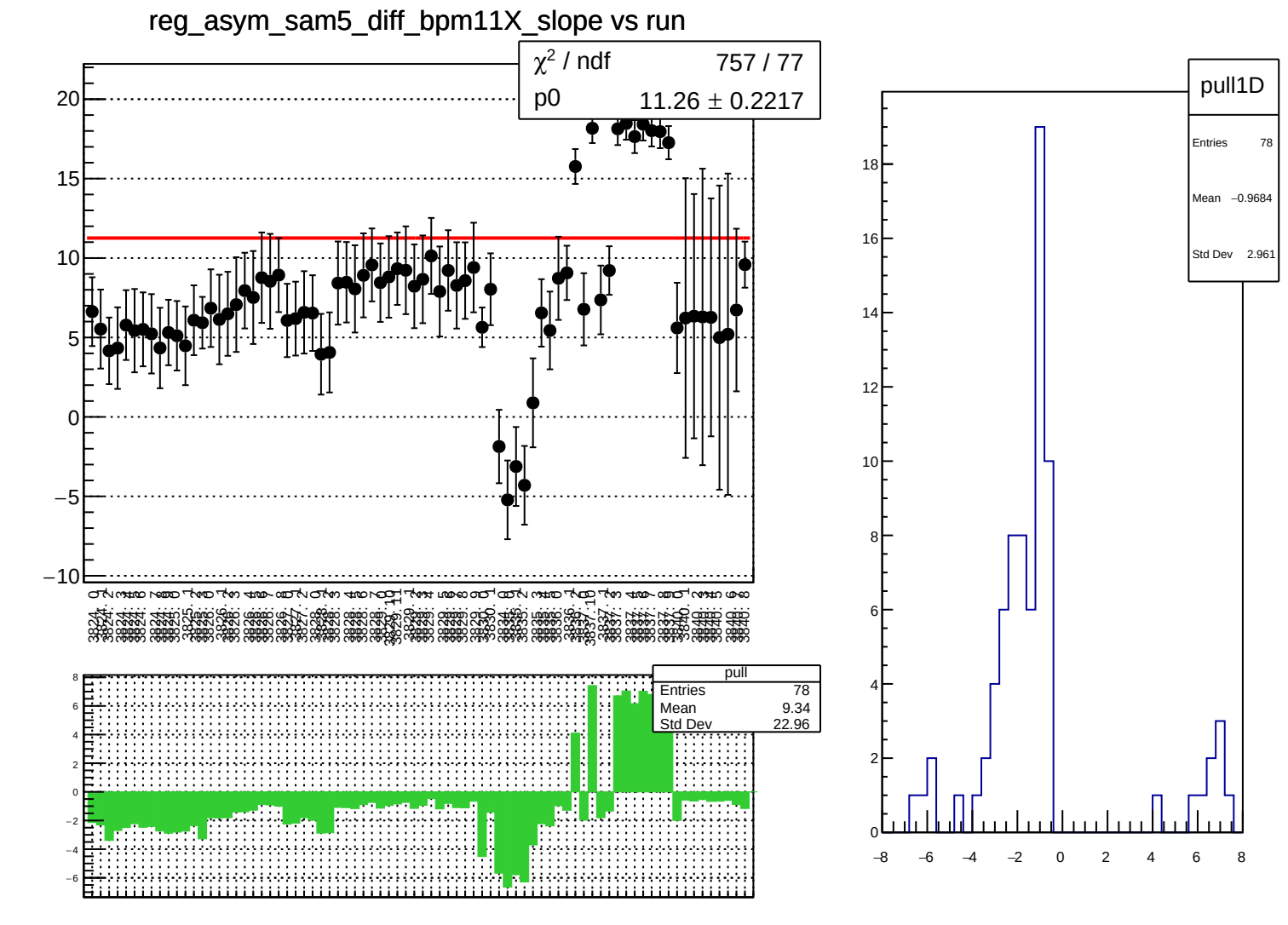

pull1D
Entries 78
Mean 3.06
Std Dev 1.223

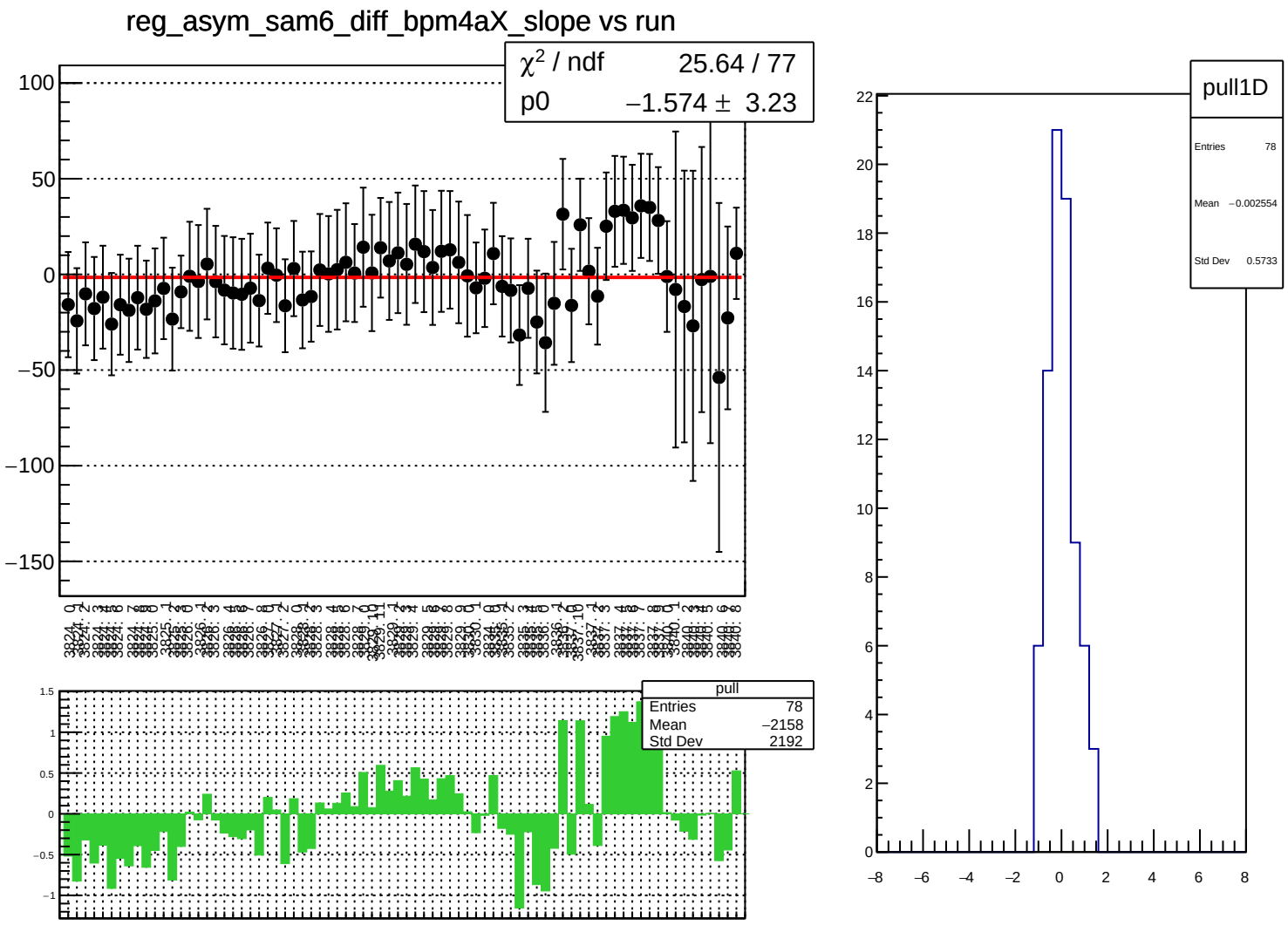

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 896.9 / 77
p0 −20.21 ± 0.1965
pull
Entries 78
Mean −65.45
Std Dev 104.6

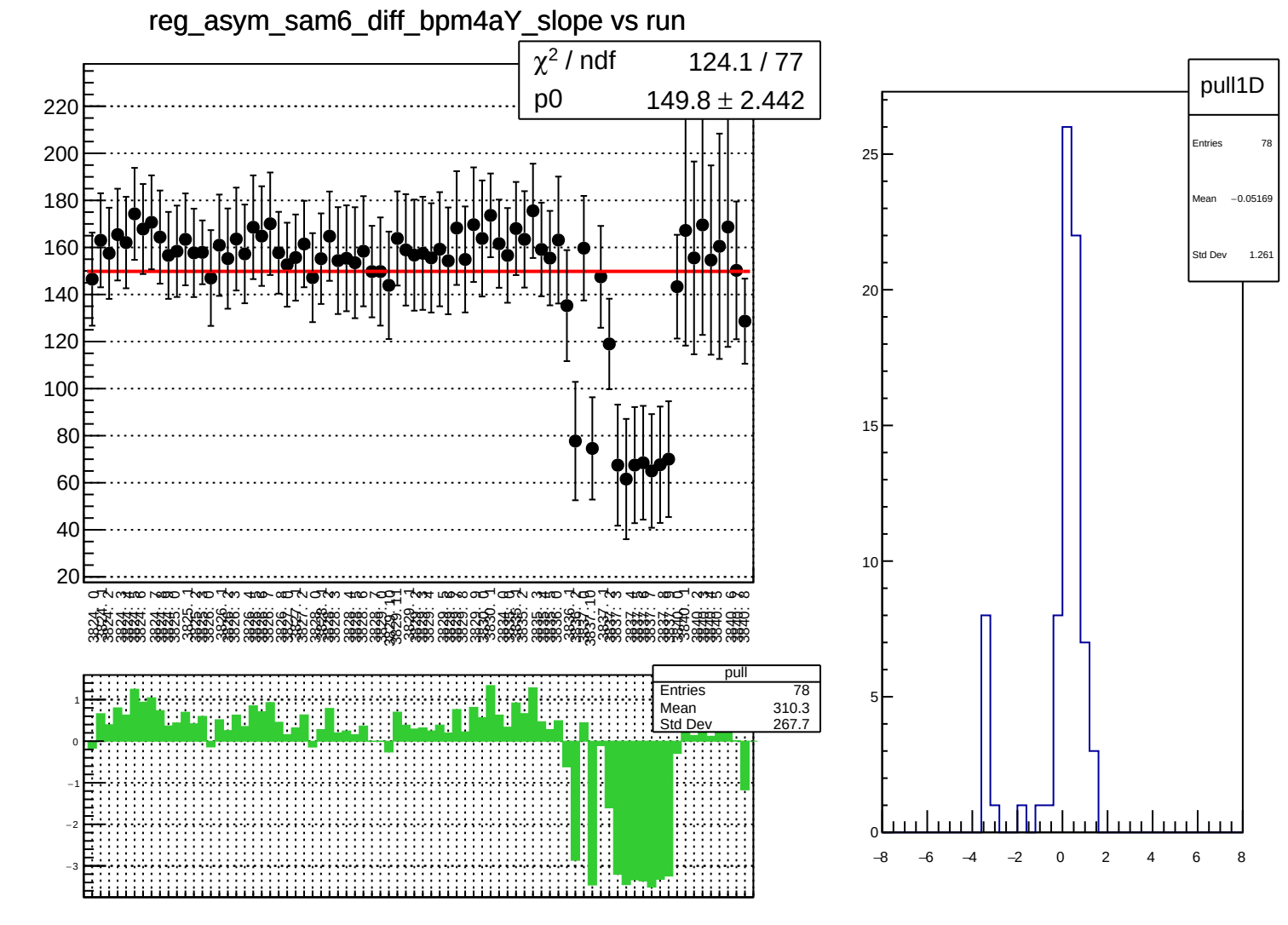

pull1D
Entries 78
Mean 0.4556
Std Dev 3.36

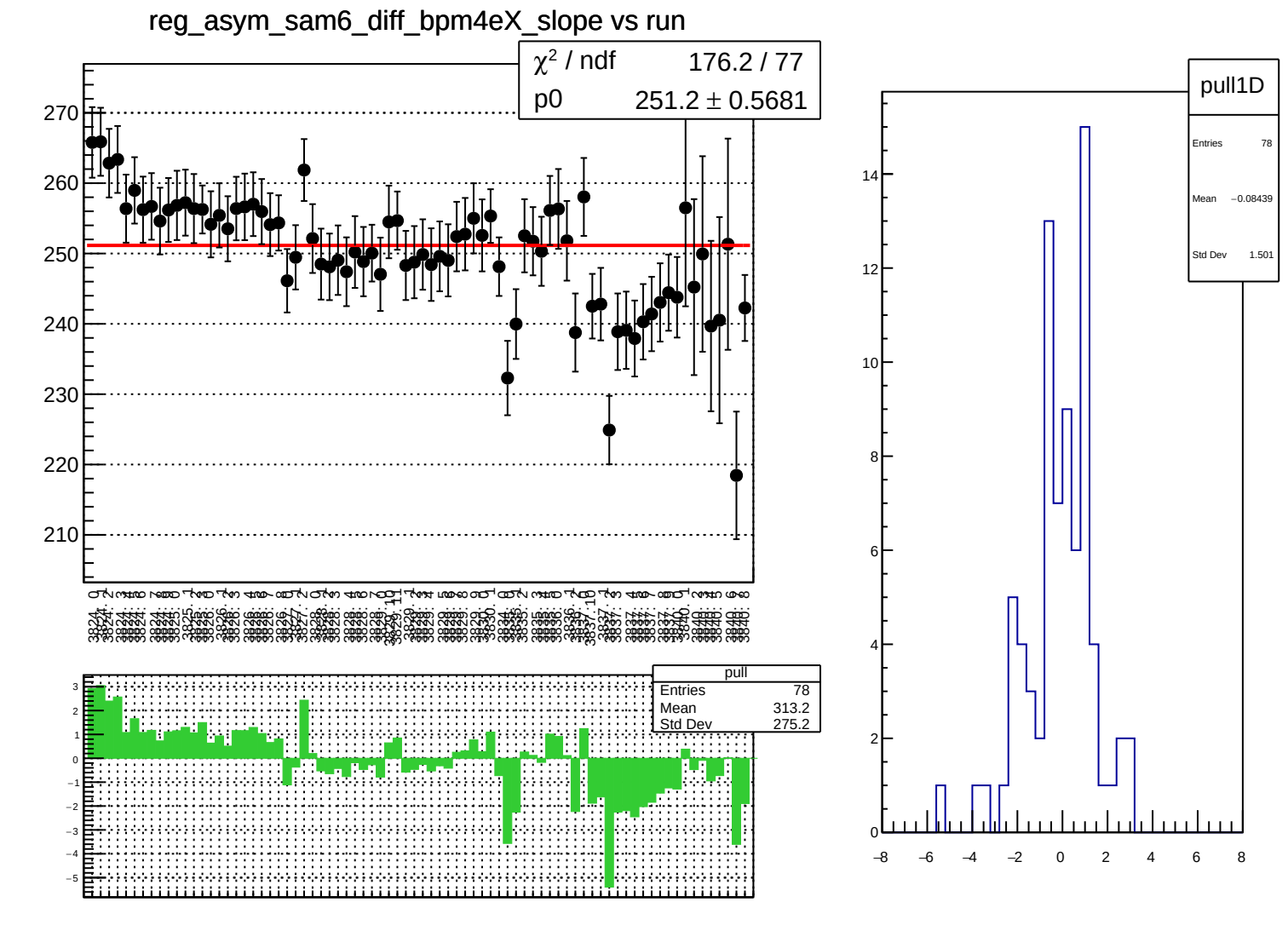

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 347.9 / 77
p0 56.72 ± 1.255
pull
Entries 78
Mean 8.23
Std Dev 29.31

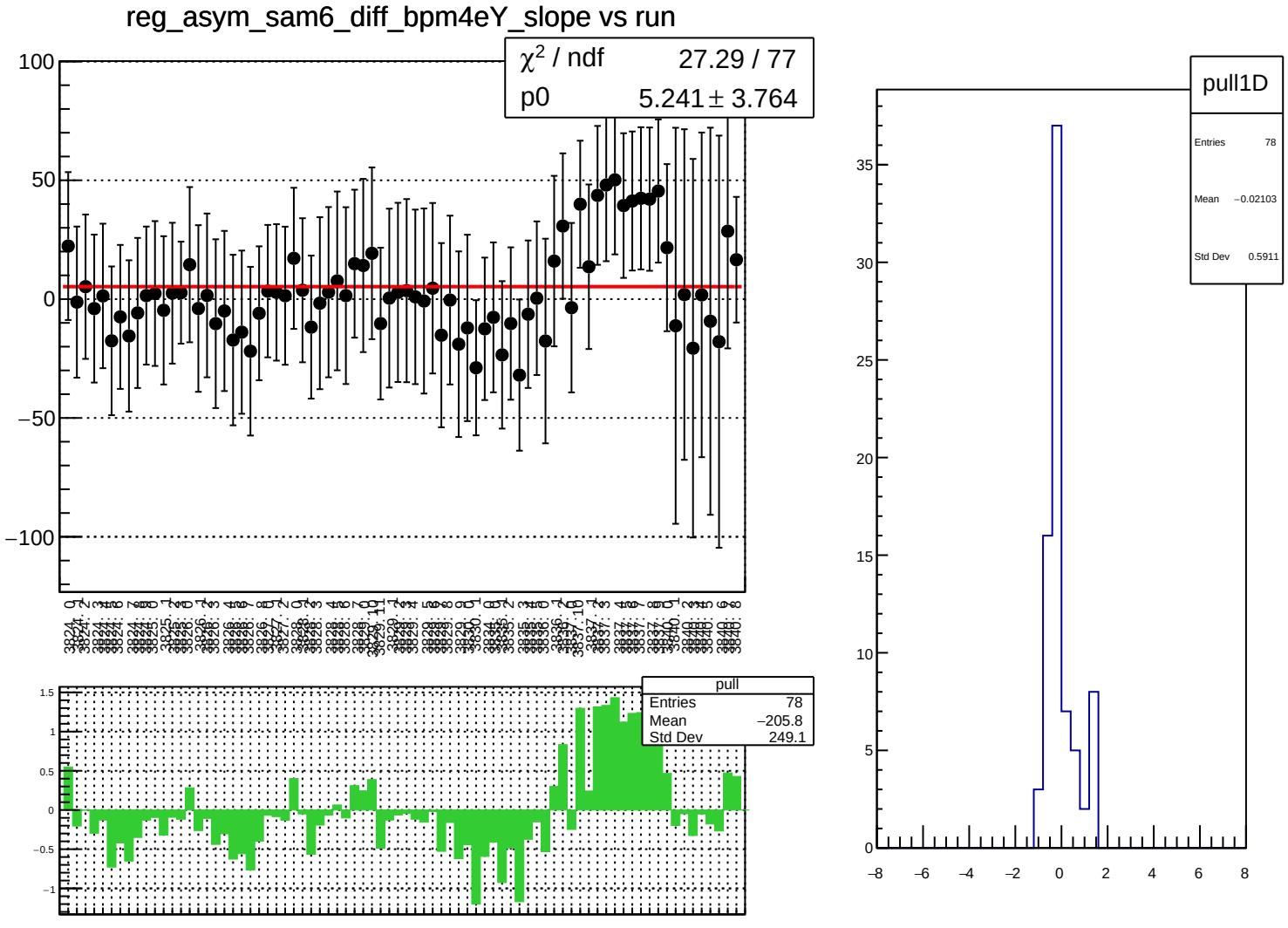

pull1D
Entries 78
Mean −0.6019
Std Dev 2.024

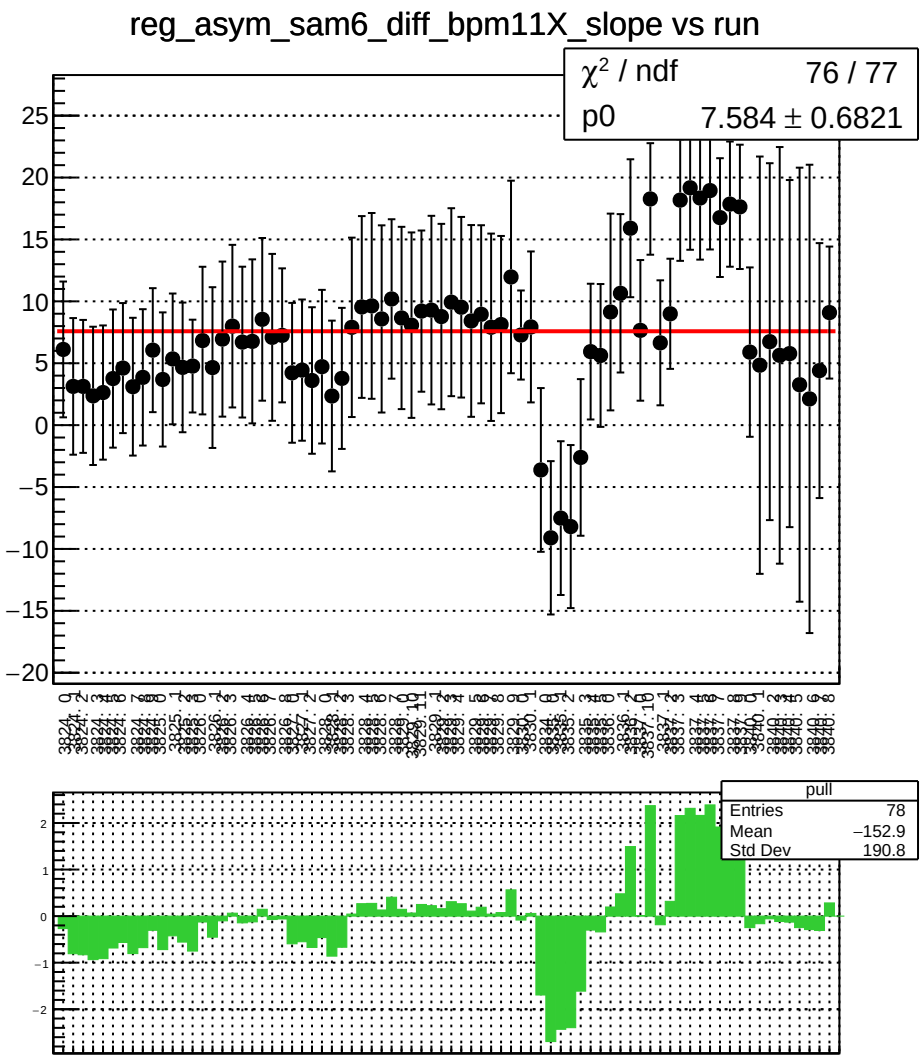

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 757 / 77
p0 11.26 ± 0.2217
pull
Entries 78
Mean 9.34
Std Dev 22.96
pull1D
Entries 78
Mean −0.9684
Std Dev 2.961

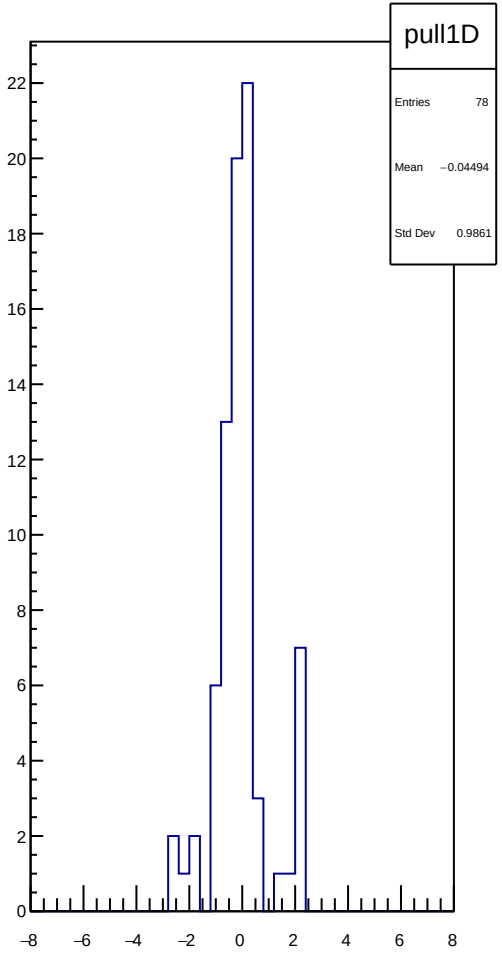

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 25.64 / 77
p0 −1.574 ± 3.23
pull
Entries 78
Mean −2158
Std Dev 2192
pull1D
Entries 78
Mean −0.002554
Std Dev 0.5733

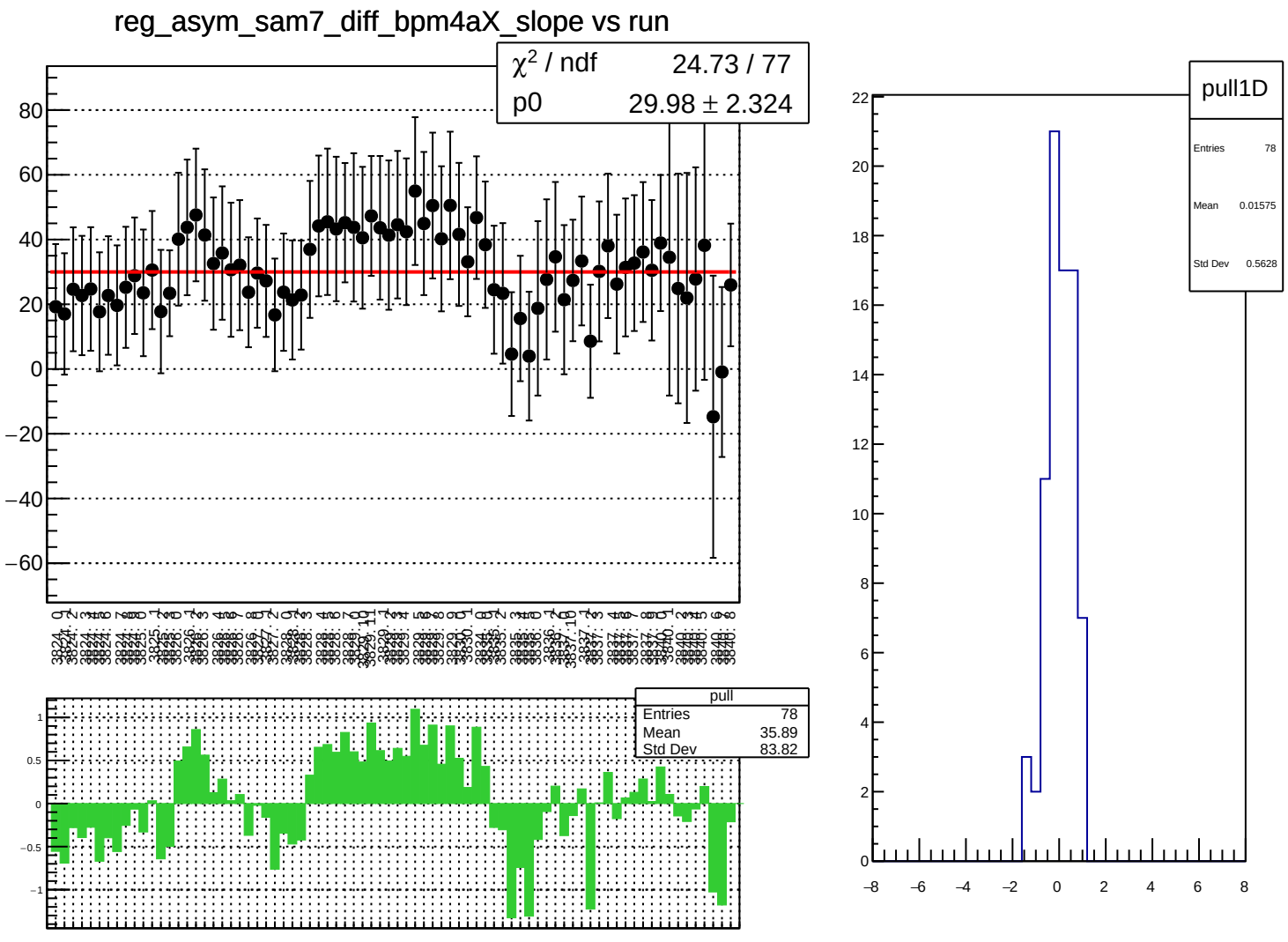

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 124.1 / 77
p0 149.8 ± 2.442
pull
Entries 78
Mean 310.3
Std Dev 267.7
pull1D
Entries 78
Mean −0.05169
Std Dev 1.261

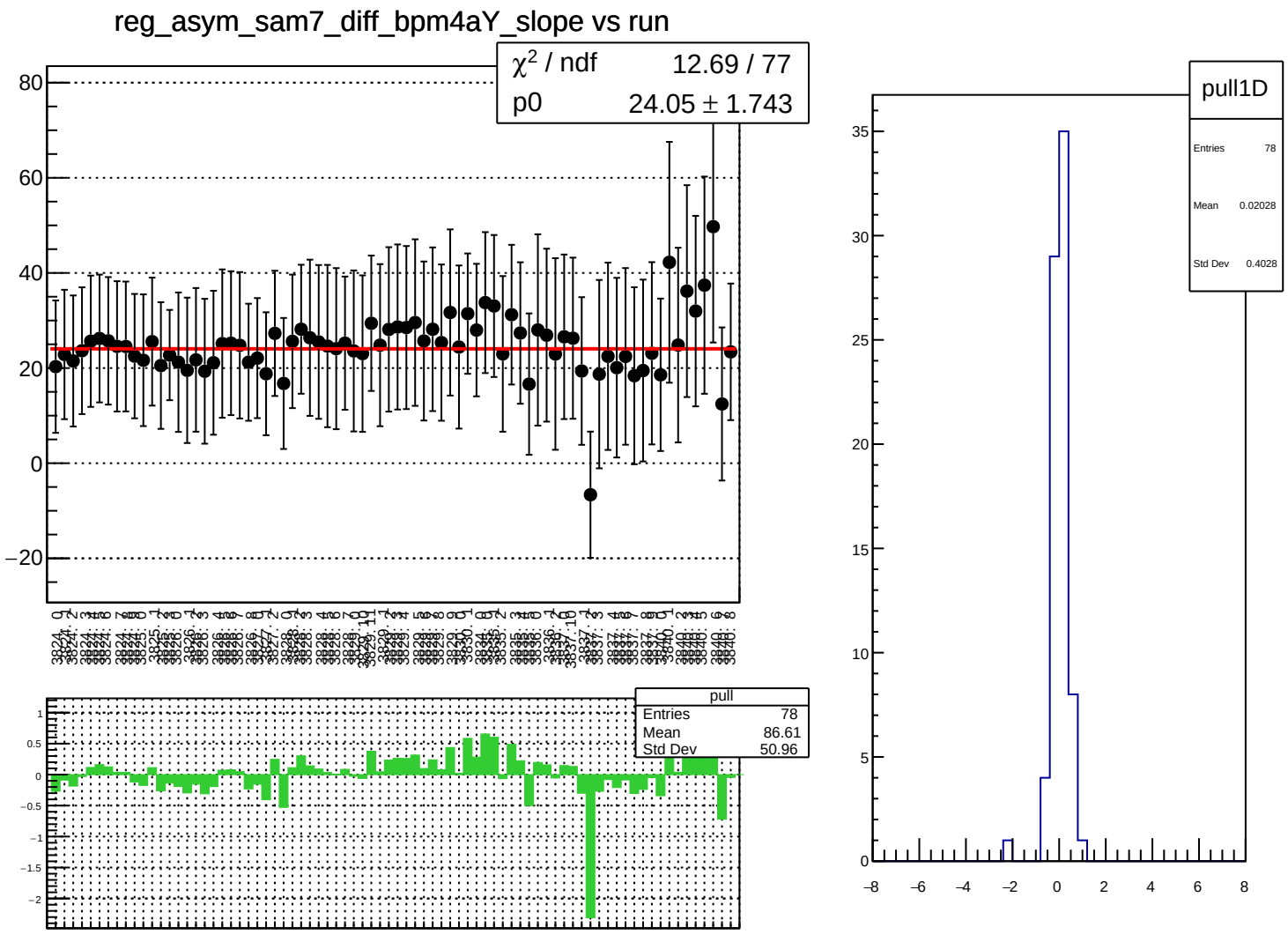

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 176.2 / 77
p0 251.2 ± 0.5681
pull
Entries 78
Mean 313.2
Std Dev 275.2
pull1D
Entries 78
Mean −0.08439
Std Dev 1.501

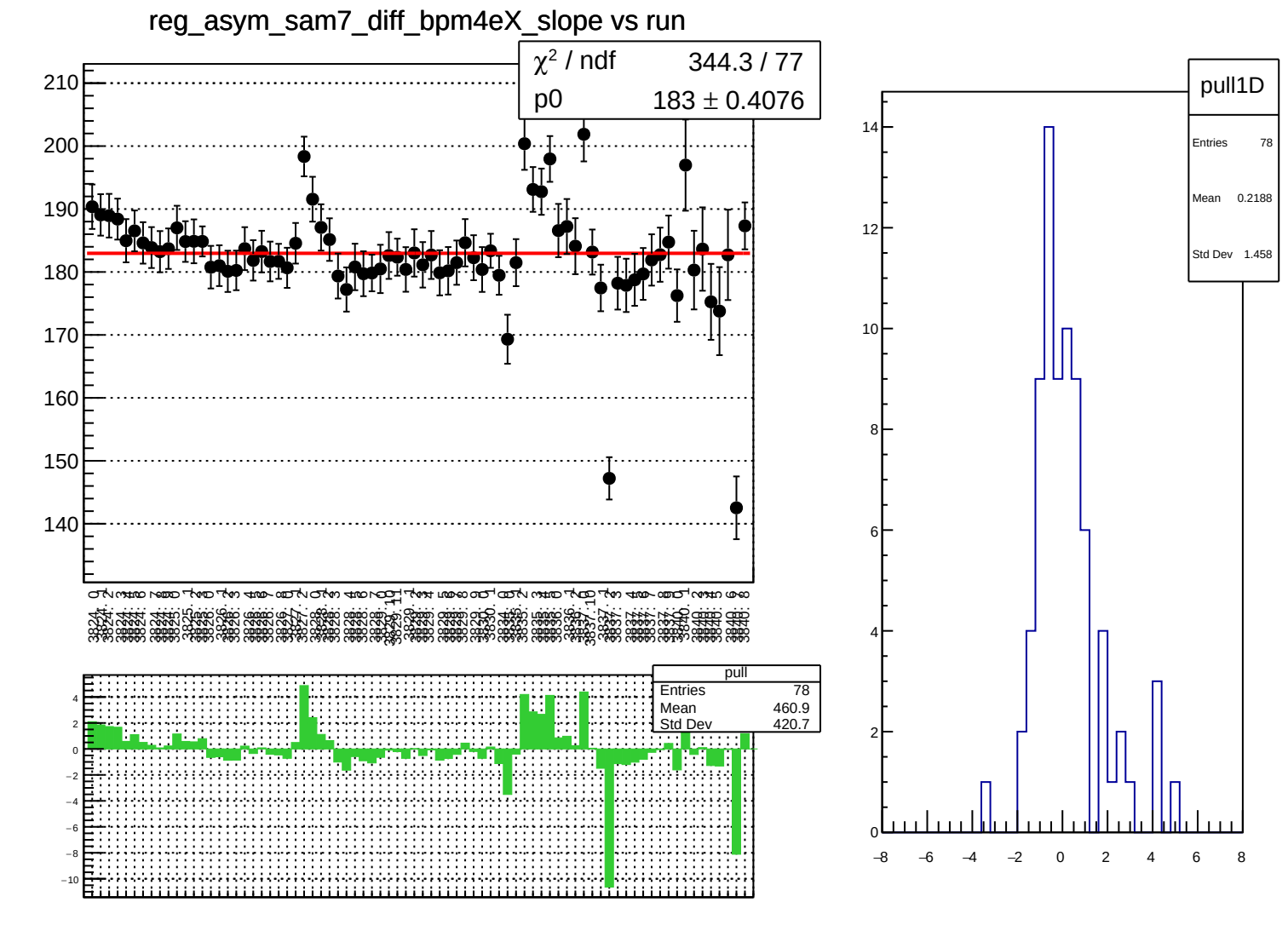

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 27.29 / 77
p0 5.241 ± 3.764
pull
Entries 78
Mean −205.8
Std Dev 249.1
pull1D
Entries 78
Mean −0.02103
Std Dev 0.5911

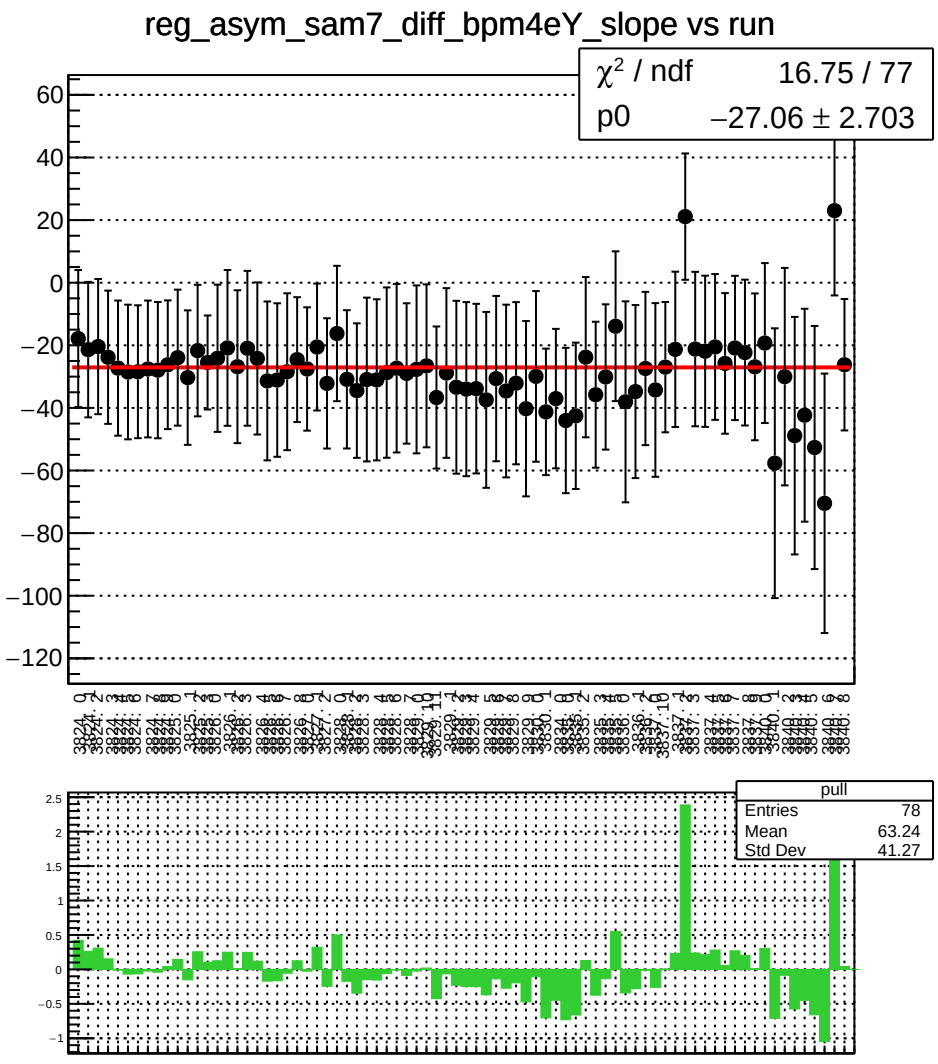

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 76 / 77
p0 7.584 ± 0.6821
pull
Entries 78
Mean −152.9
Std Dev 190.8

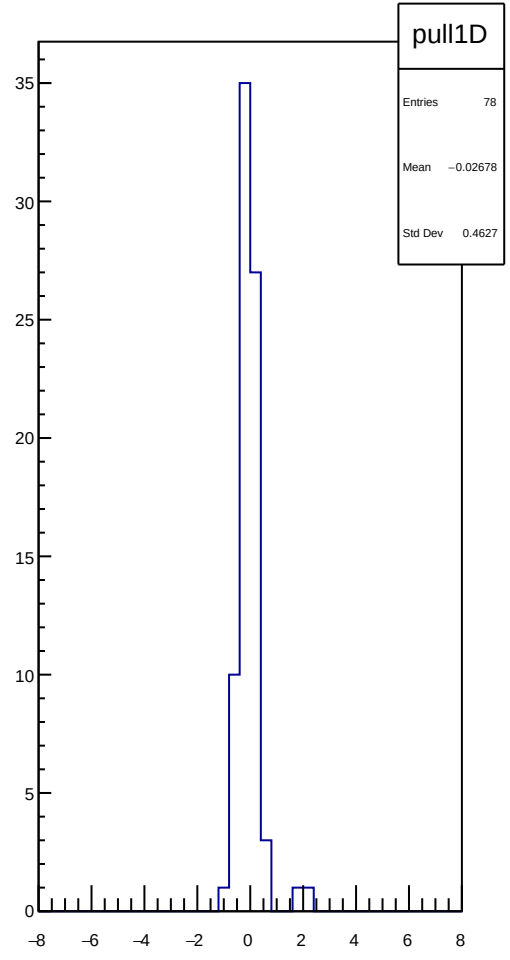

pull1D
Entries 78
Mean −0.04494
Std Dev 0.9861

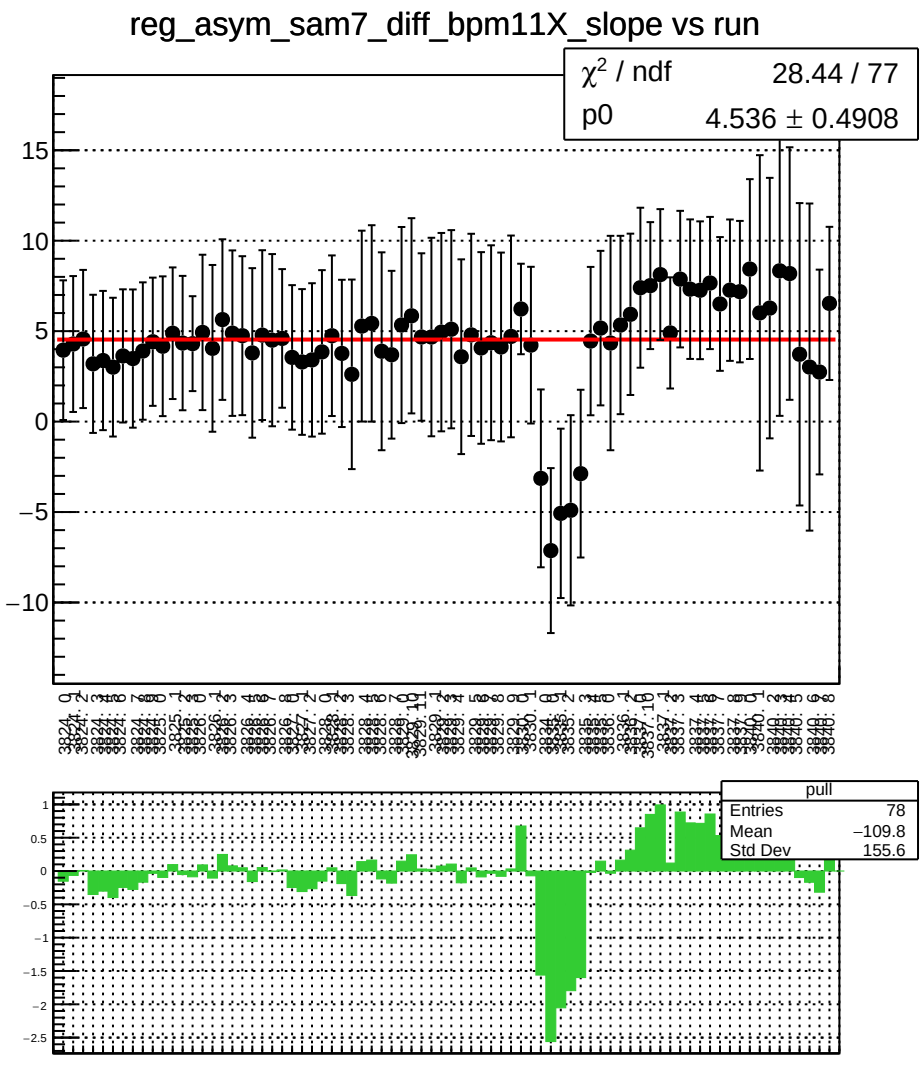

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 24.73 / 77
p0 29.98 ± 2.324
pull
Entries 78
Mean 35.89
Std Dev 83.82
pull1D
Entries 78
Mean 0.01575
Std Dev 0.5628

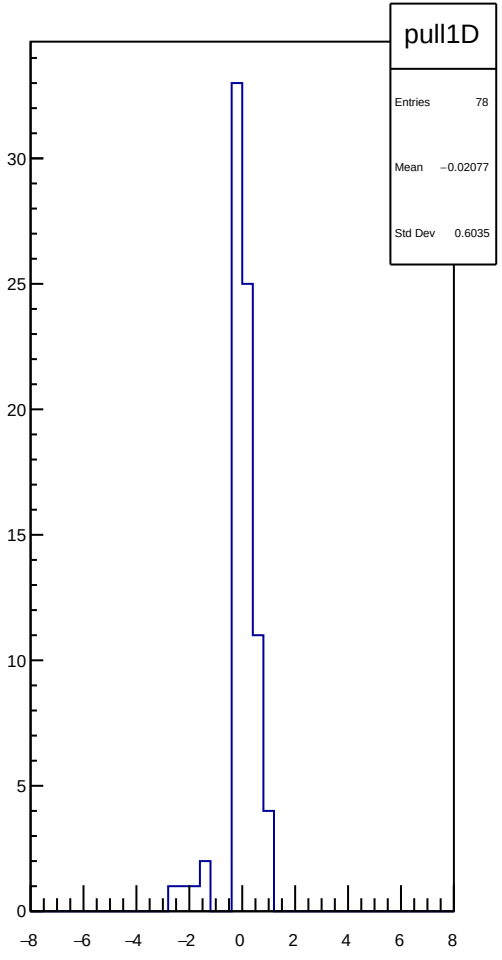

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 12.69 / 77
p0 24.05 ± 1.743
pull
Entries 78
Mean 86.61
Std Dev 50.96
pull1D
Entries 78
Mean 0.02028
Std Dev 0.4028

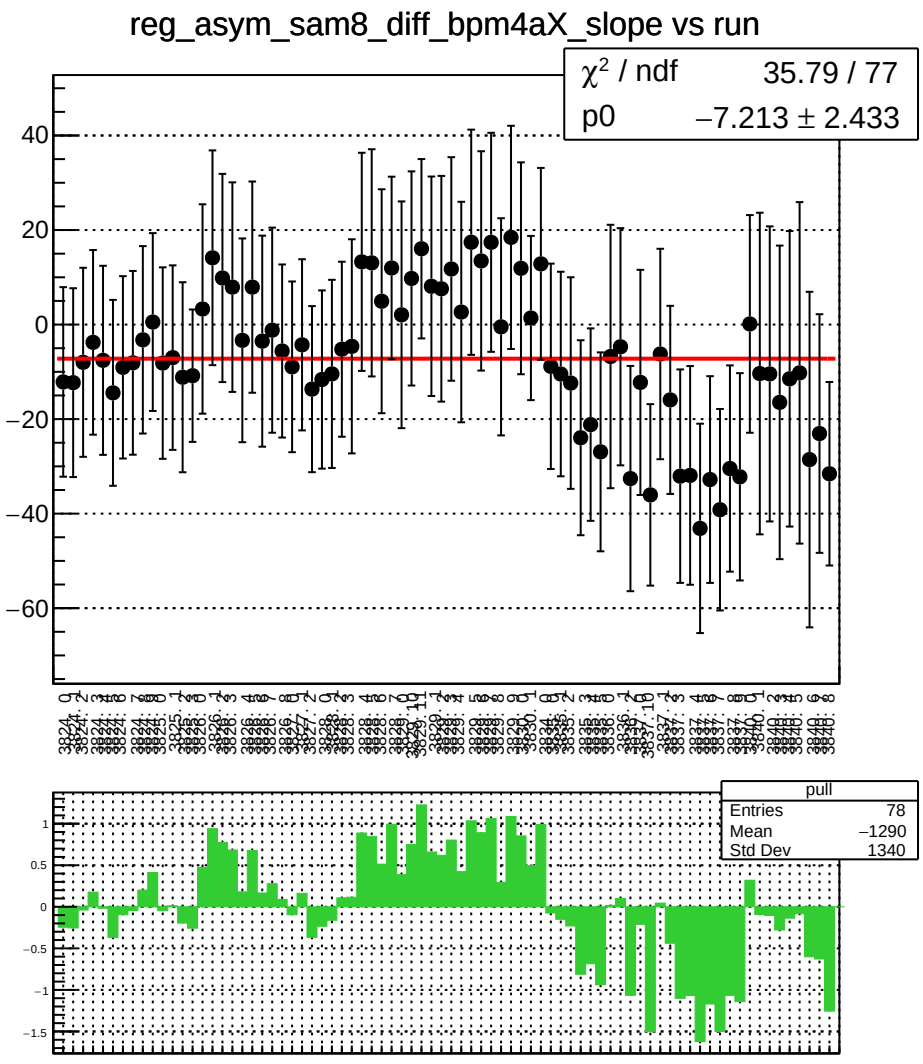

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 344.3 / 77
p0 183 ± 0.4076
pull
Entries 78
Mean 460.9
Std Dev 420.7
pull1D
Entries 78
Mean 0.2188
Std Dev 1.458

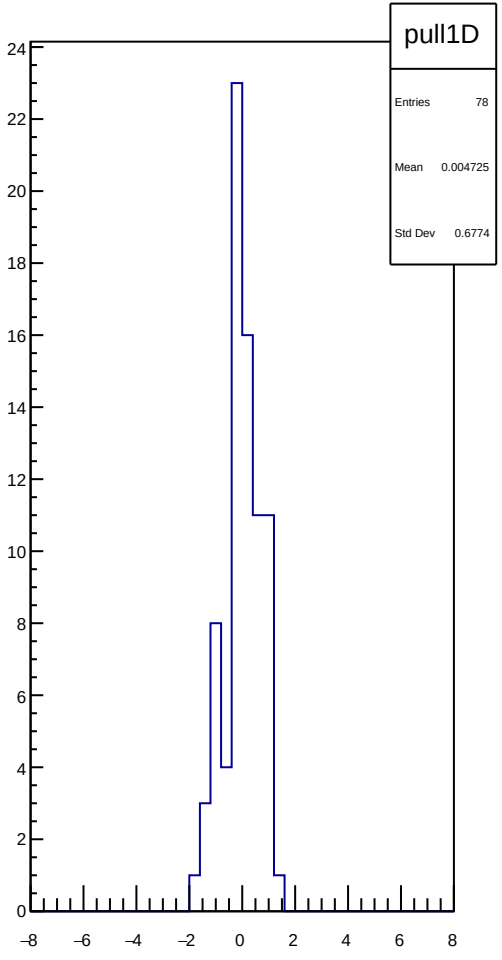

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 16.75 / 77
p0 −27.06 ± 2.703
pull
Entries 78
Mean 63.24
Std Dev 41.27

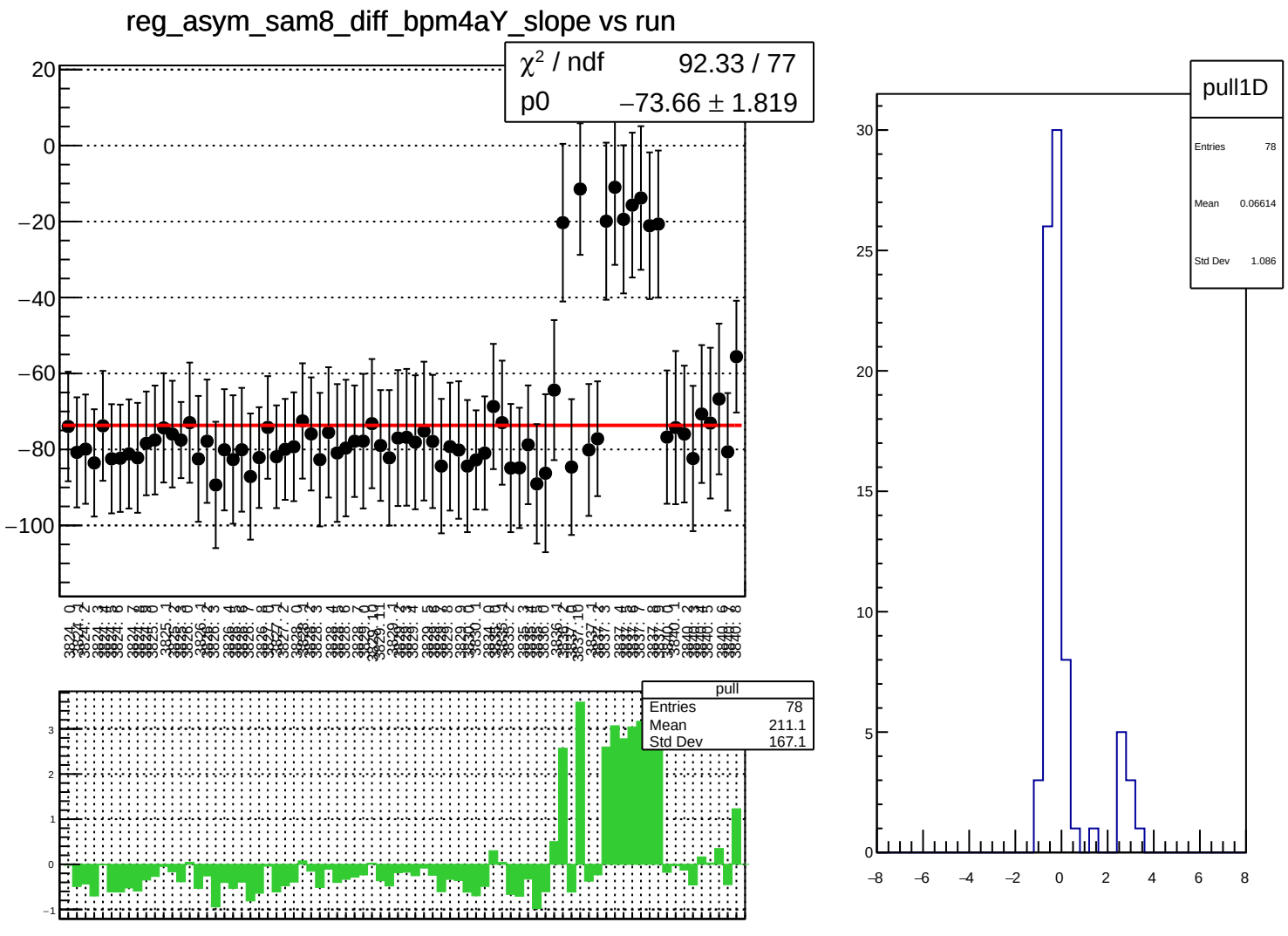

pull1D
Entries 78
Mean −0.02678
Std Dev 0.4627

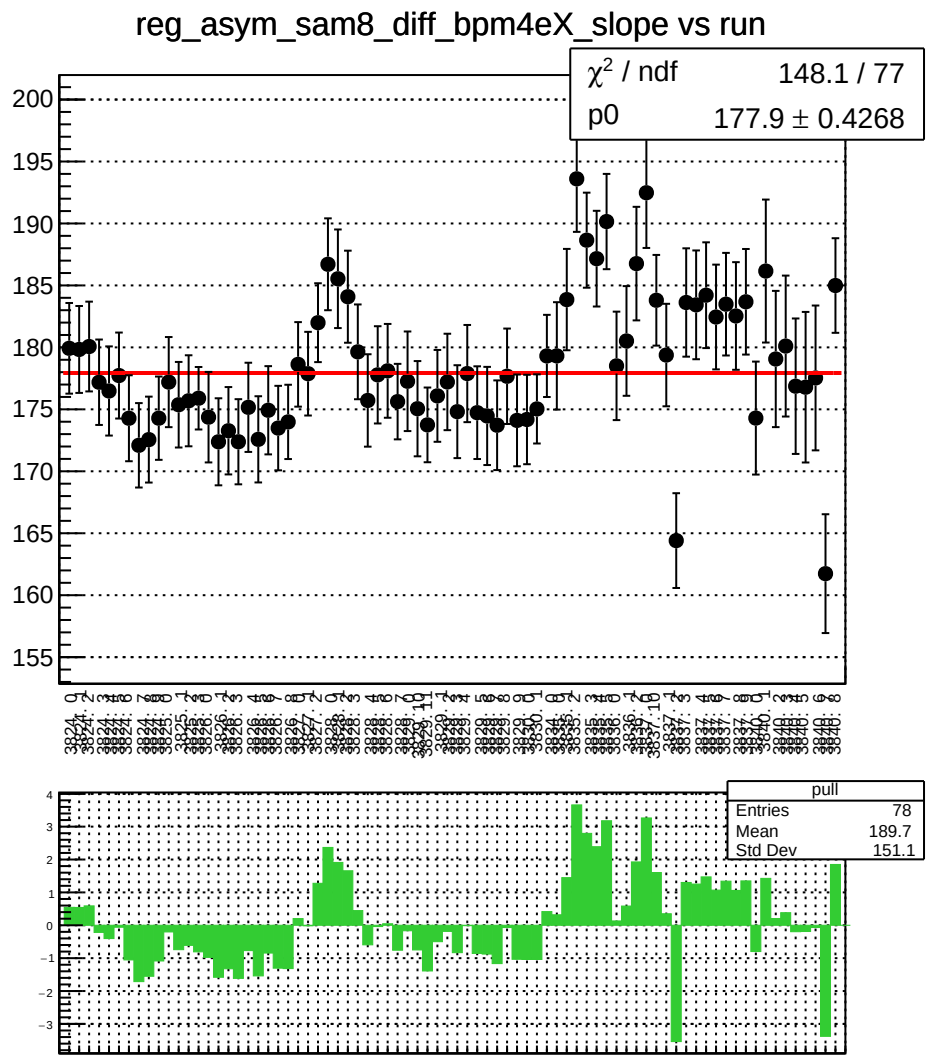

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 28.44 / 77
p0 4.536 ± 0.4908
pull
Entries 78
Mean −109.8
Std Dev 155.6

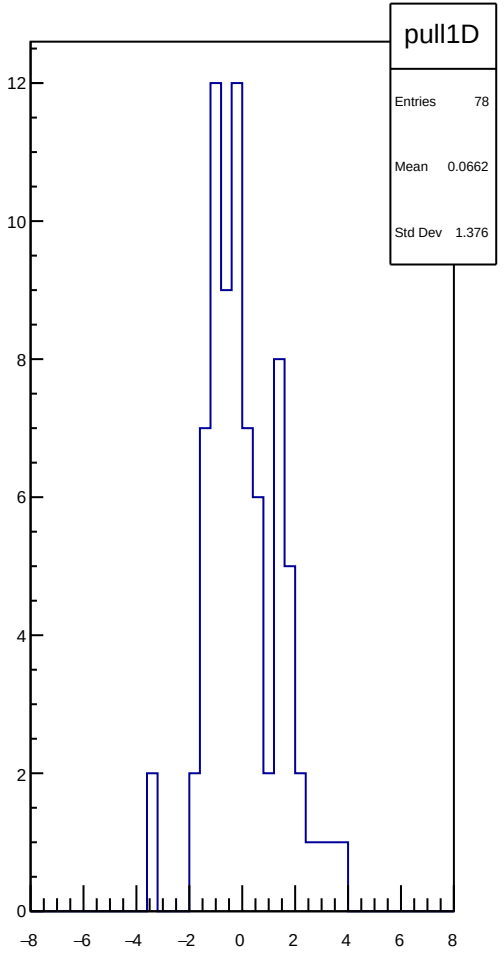

pull1D
Entries 78
Mean −0.02077
Std Dev 0.6035

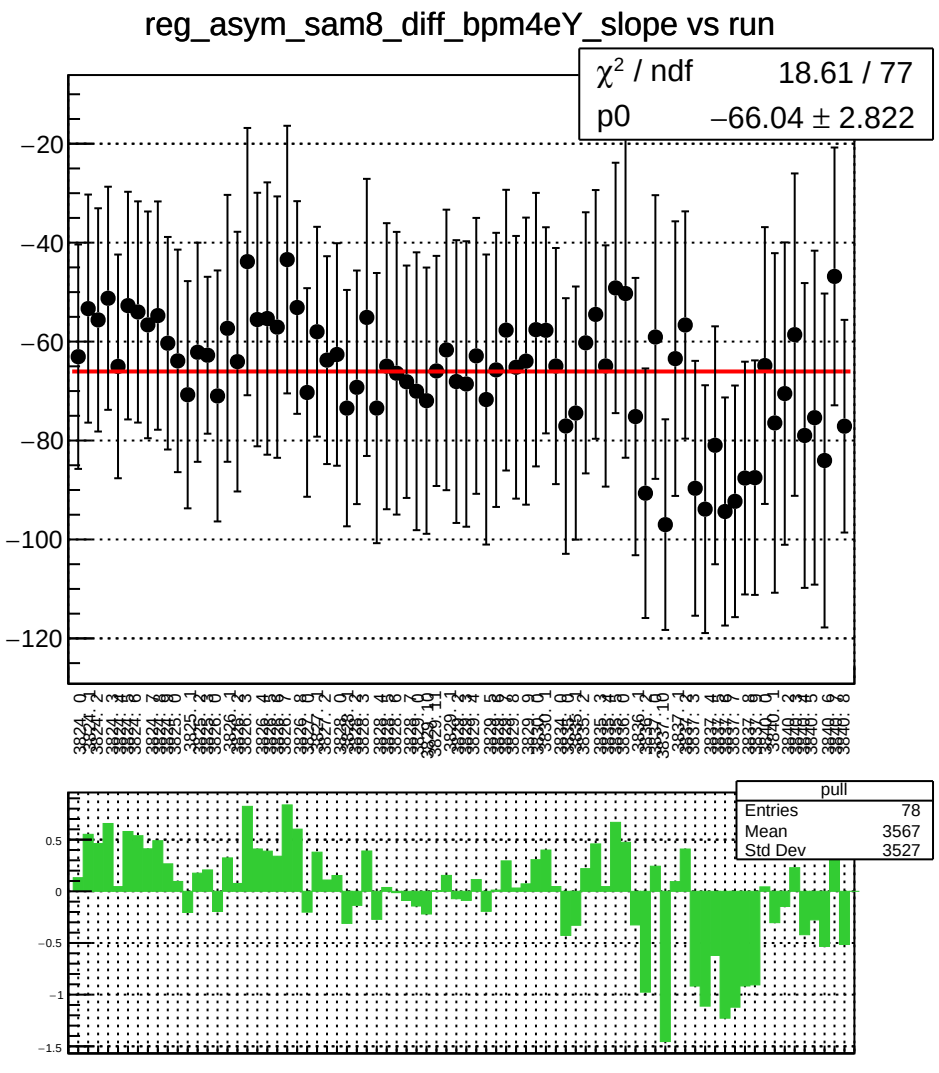

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 35.79 / 77
p0 −7.213 ± 2.433
pull
Entries 78
Mean −1290
Std Dev 1340

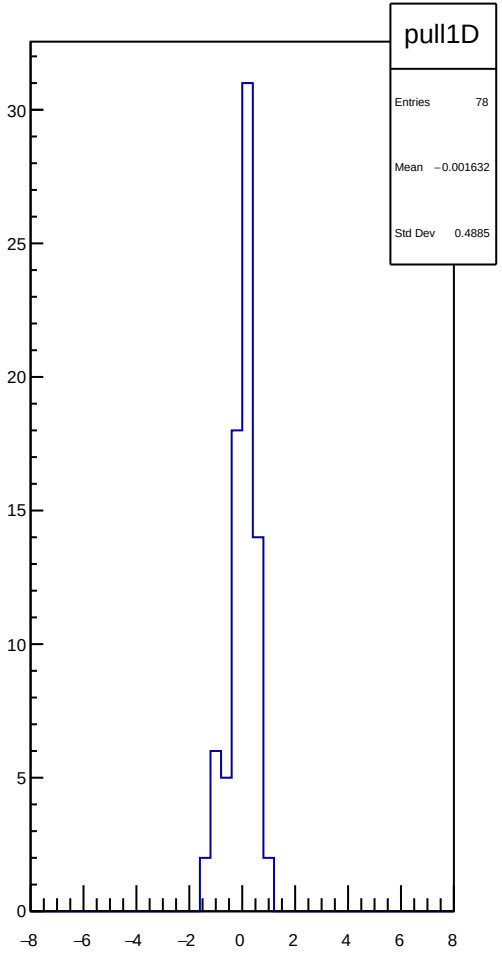

pull1D
Entries 78
Mean 0.004725
Std Dev 0.6774

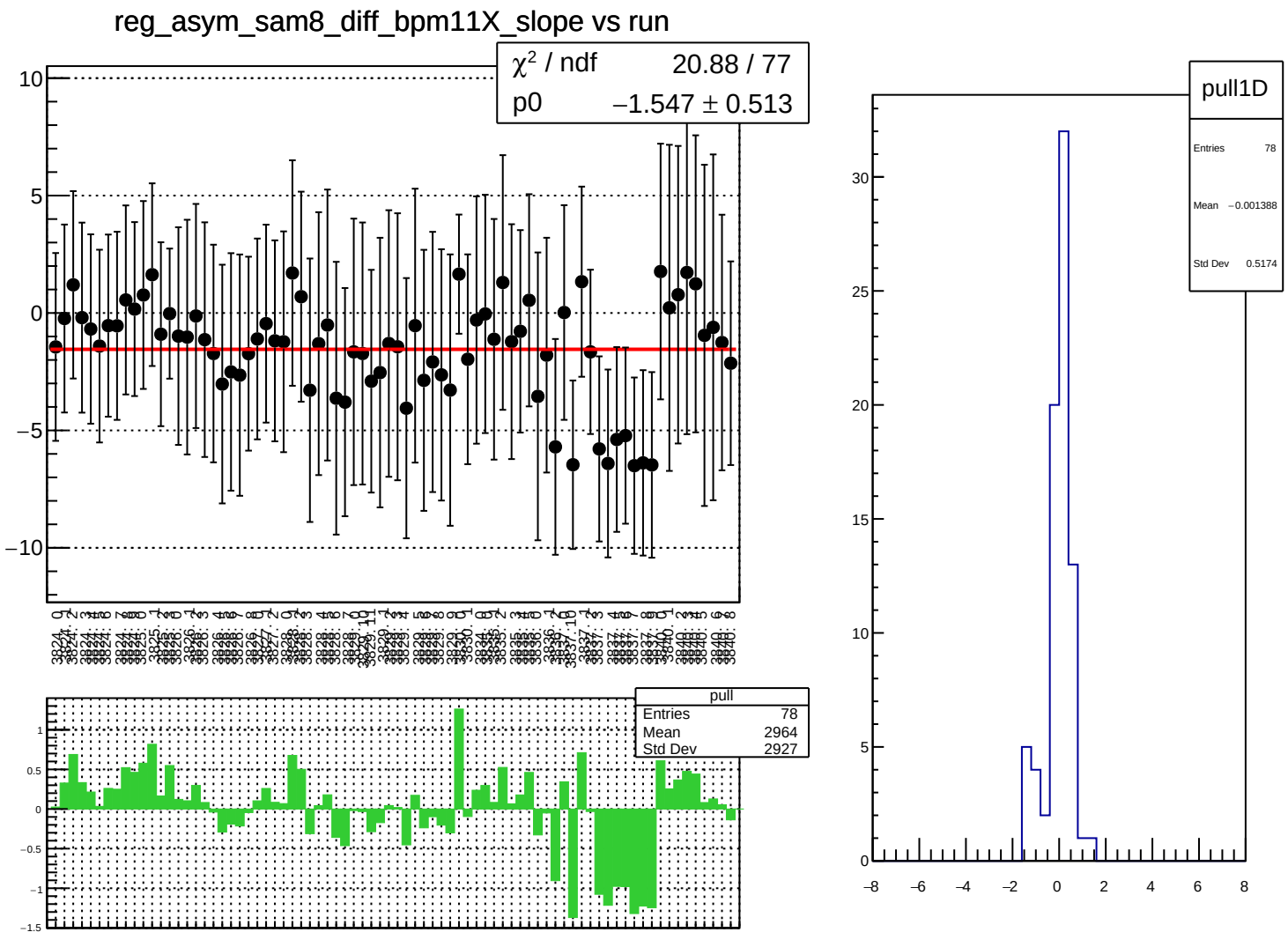

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 92.33 / 77
p0 −73.66 ± 1.819
pull
Entries 78
Mean 211.1
Std Dev 167.1
pull1D
Entries 78
Mean 0.06614
Std Dev 1.086

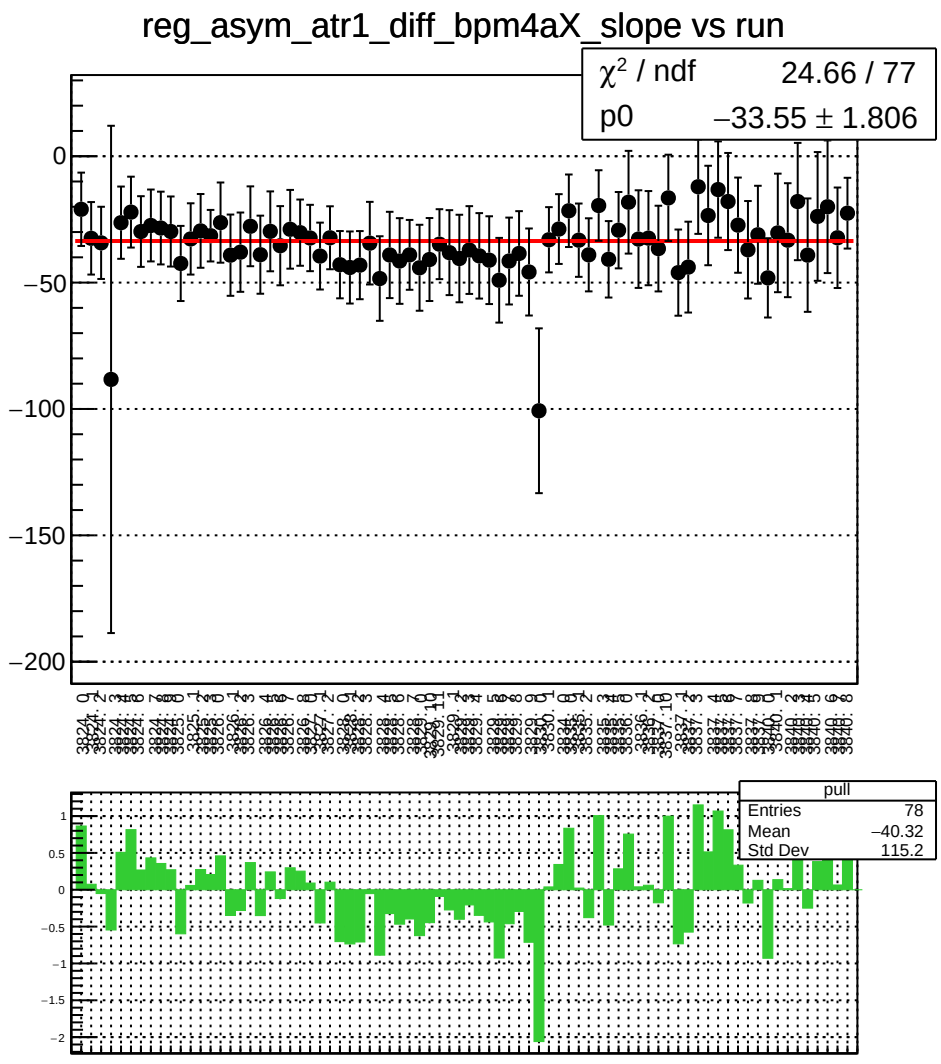

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 148.1 / 77
p0 177.9 ± 0.4268
pull
Entries 78
Mean 189.7
Std Dev 151.1

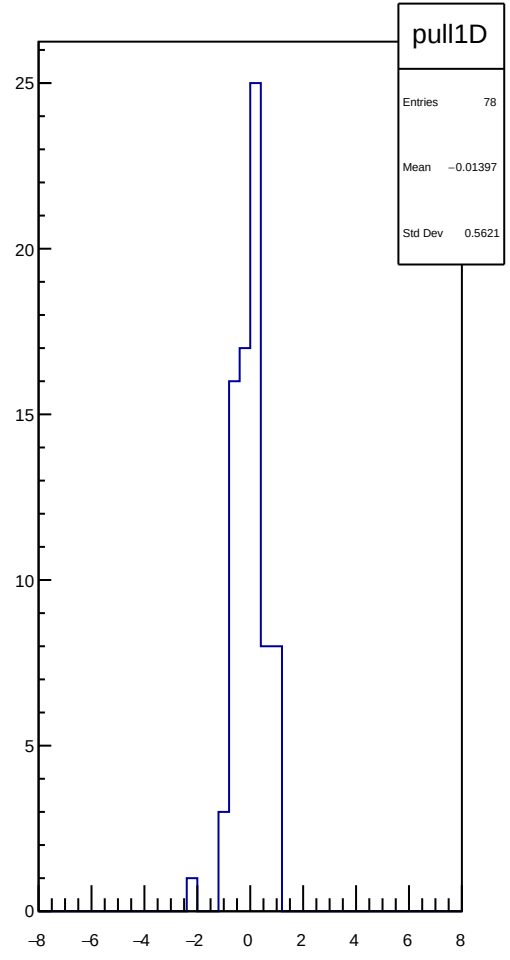

pull1D
Entries 78
Mean 0.0662
Std Dev 1.376

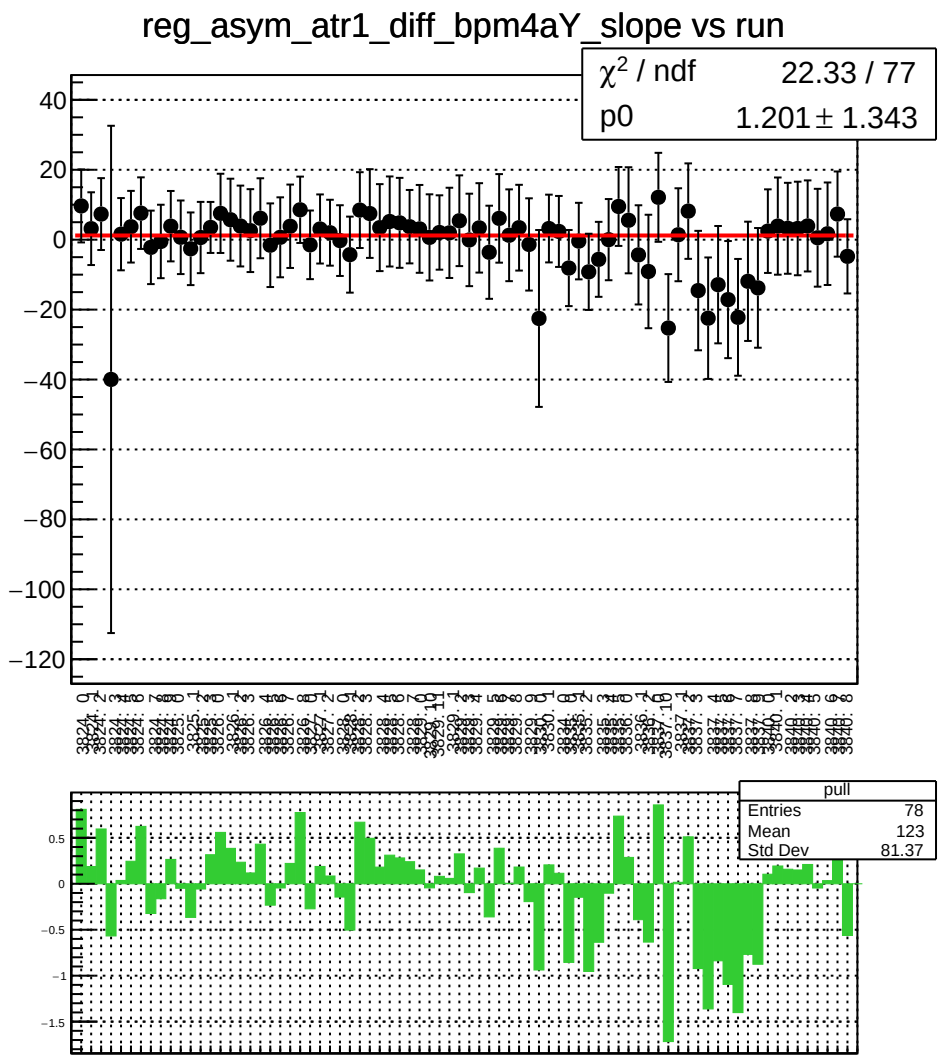

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 18.61 / 77
p0 −66.04 ± 2.822
pull
Entries 78
Mean 3567
Std Dev 3527

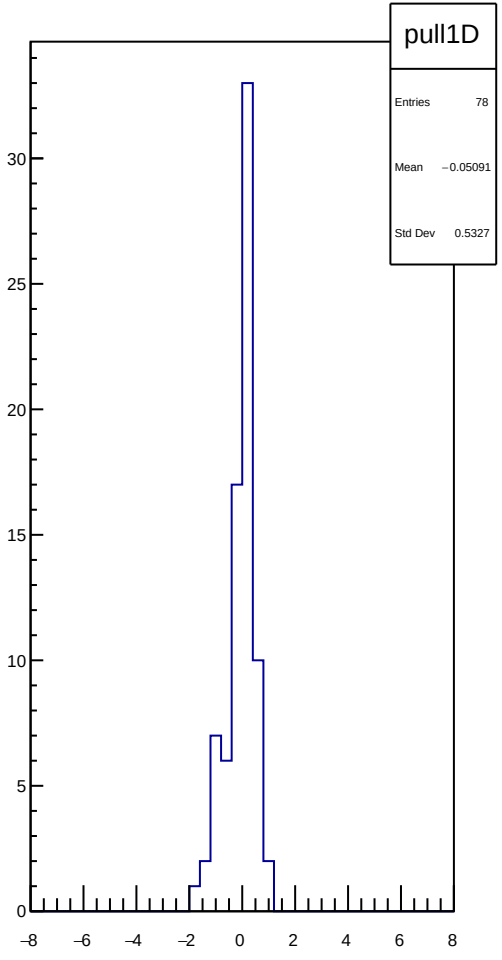

pull1D
Entries 78
Mean −0.001632
Std Dev 0.4885

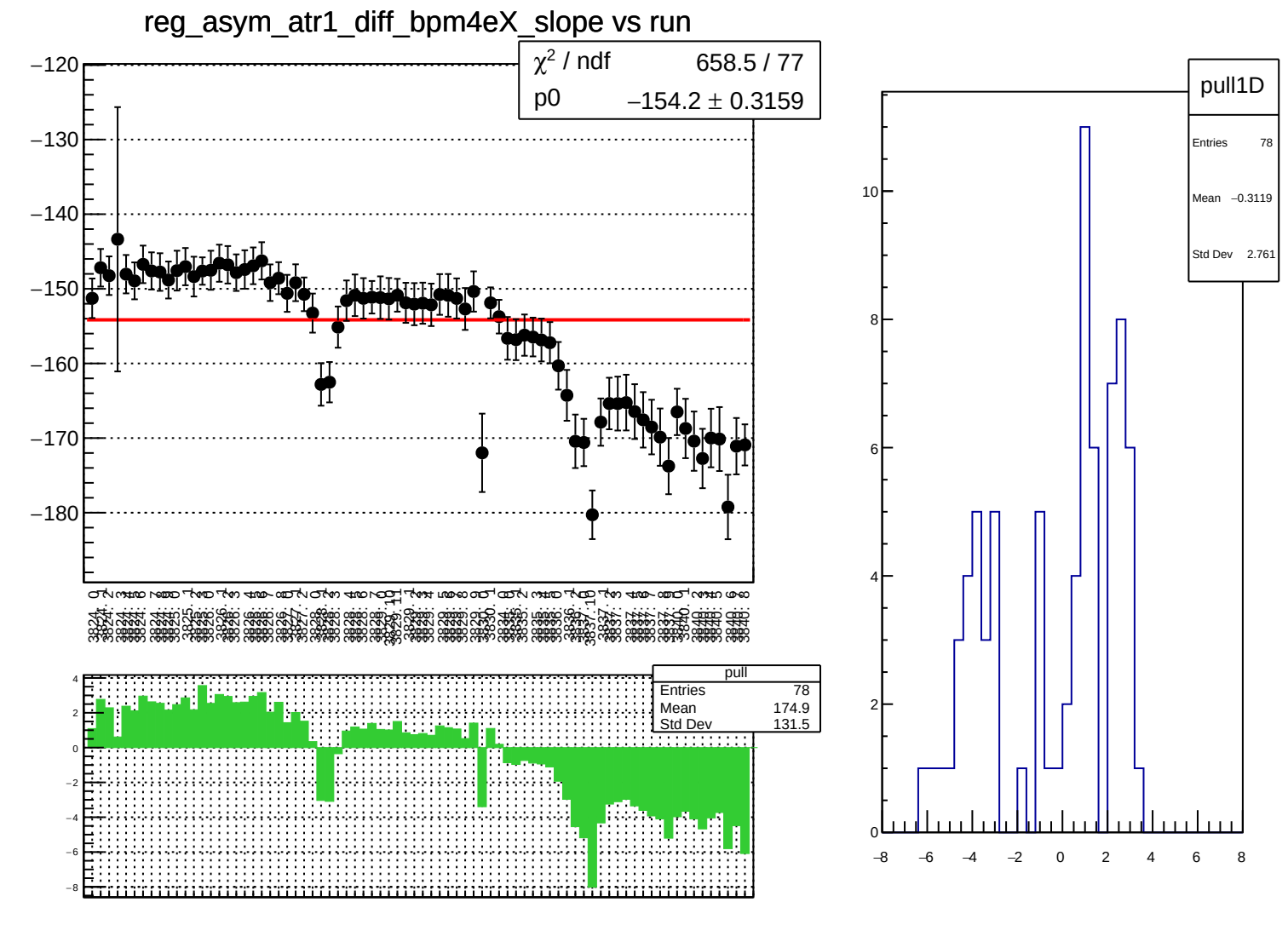

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 20.88 / 77
p0 −1.547 ± 0.513
pull
Entries 78
Mean 2964
Std Dev 2927
pull1D
Entries 78
Mean −0.001388
Std Dev 0.5174

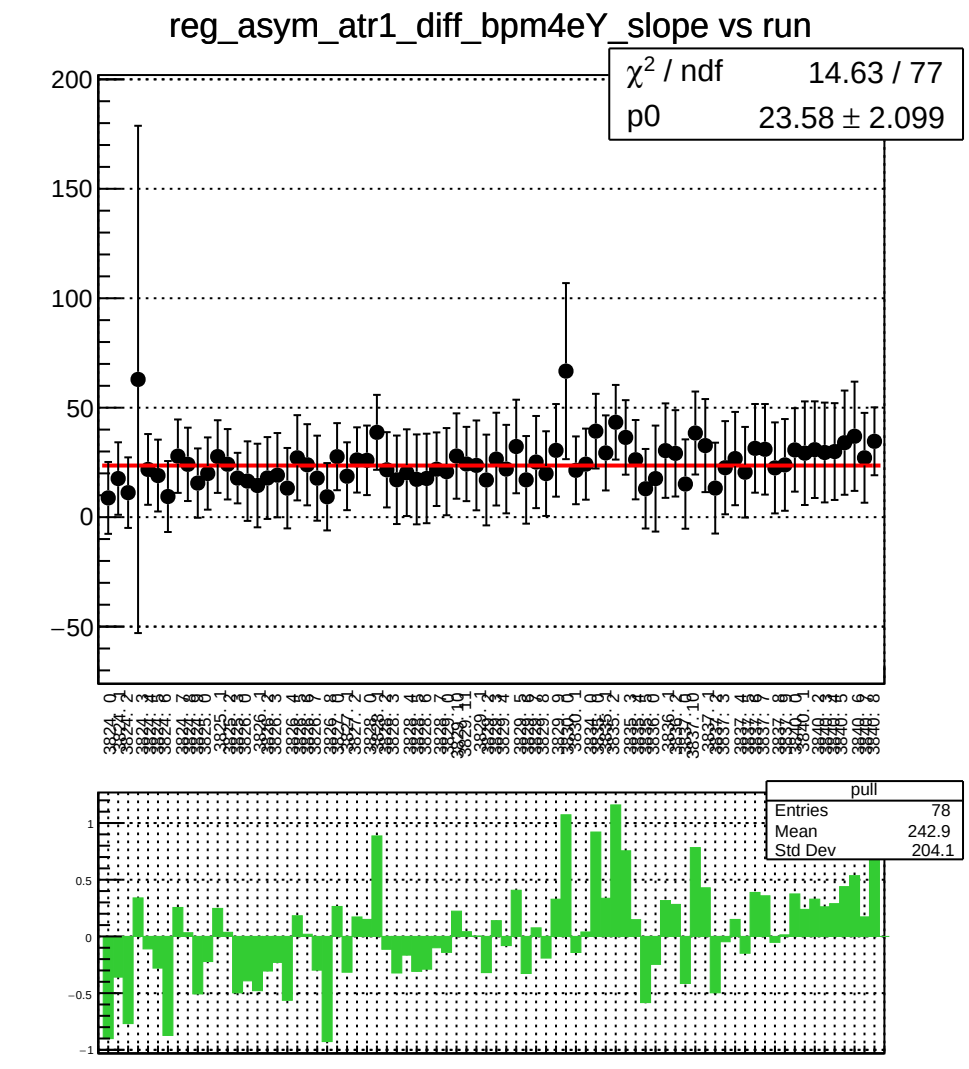

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 24.66 / 77
p0 −33.55 ± 1.806
pull
Entries 78
Mean −40.32
Std Dev 115.2

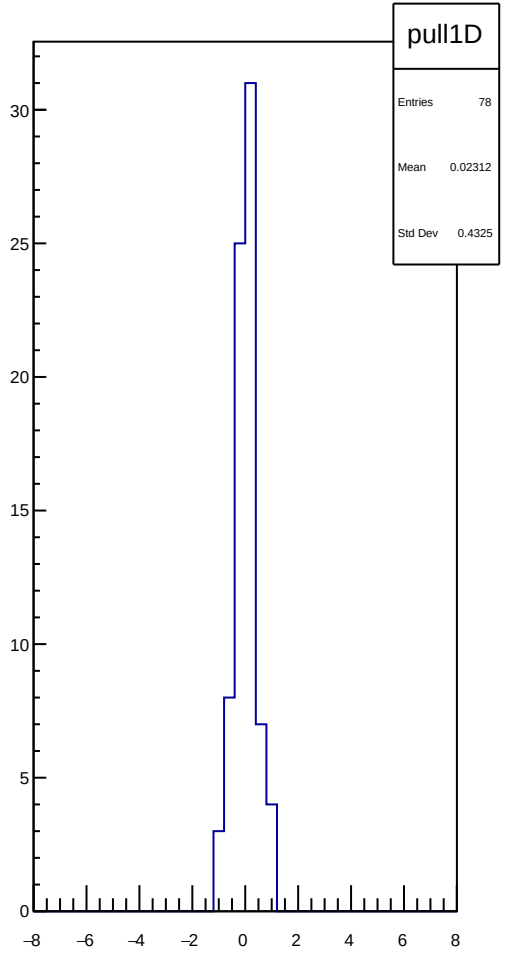

pull1D
Entries 78
Mean −0.01397
Std Dev 0.5621

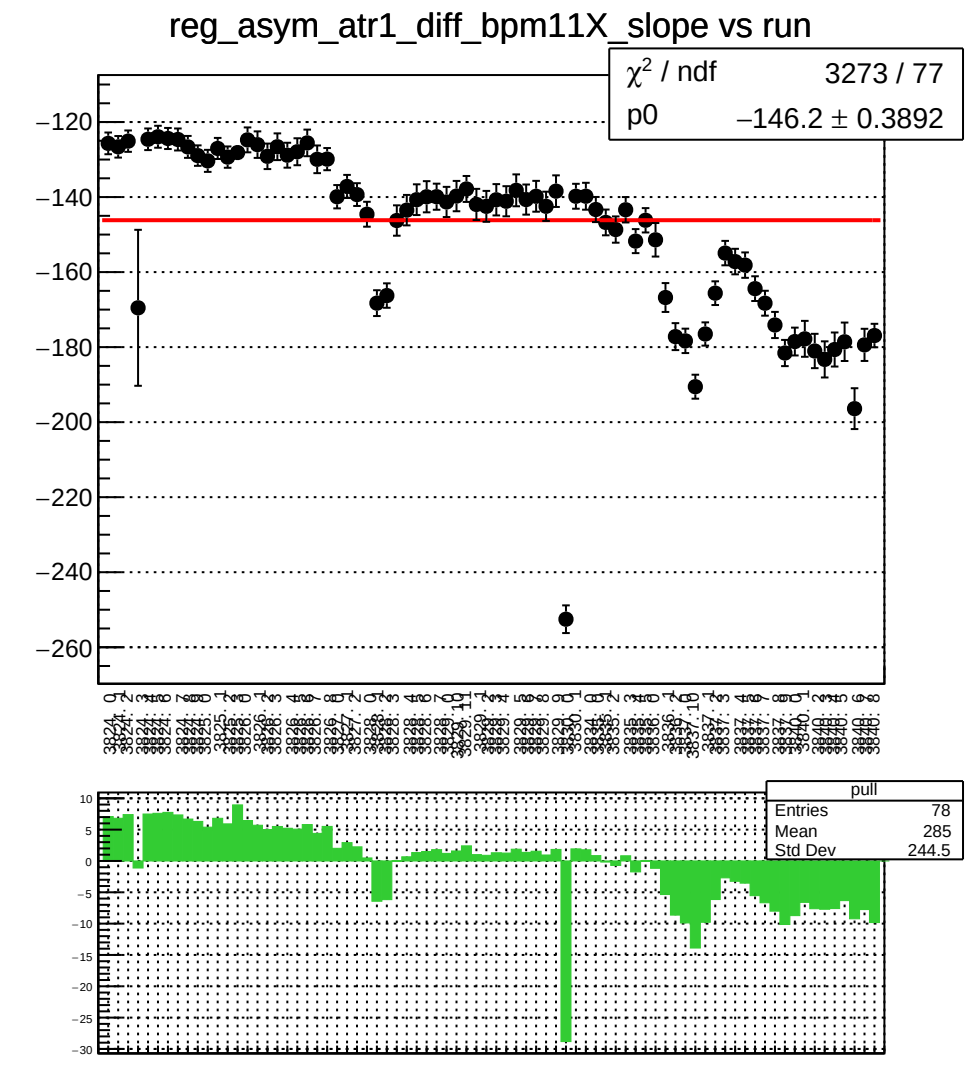

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 22.33 / 77
p0 1.201 ± 1.343
pull
Entries 78
Mean 123
Std Dev 81.37

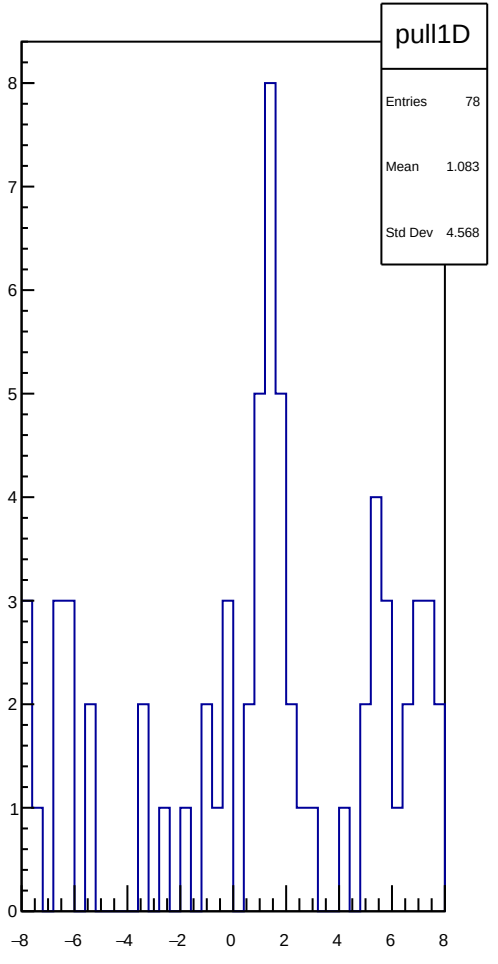

pull1D
Entries 78
Mean −0.05091
Std Dev 0.5327

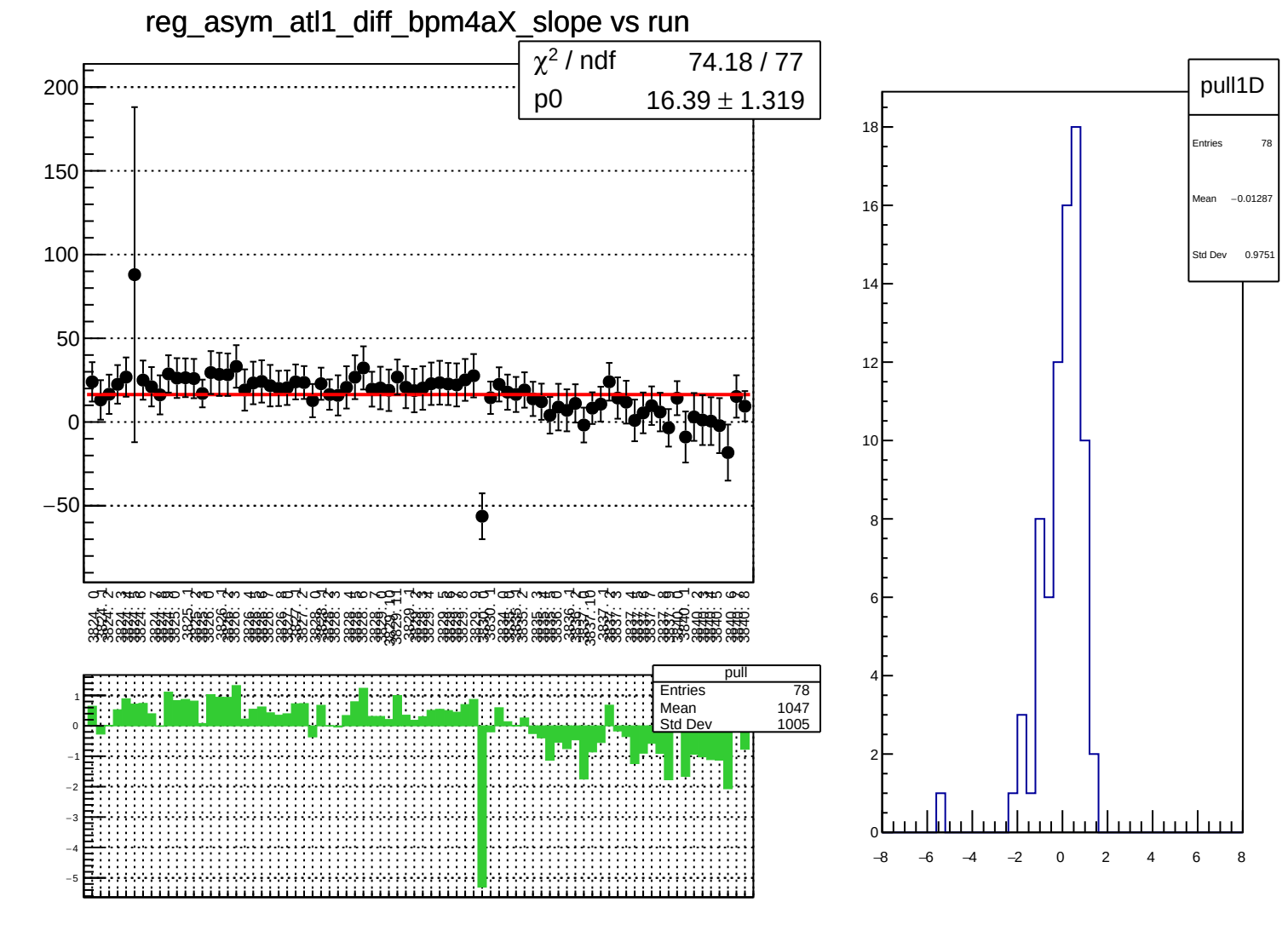

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 658.5 / 77
p0 −154.2 ± 0.3159
pull
Entries 78
Mean 174.9
Std Dev 131.5
pull1D
Entries 78
Mean −0.3119
Std Dev 2.761

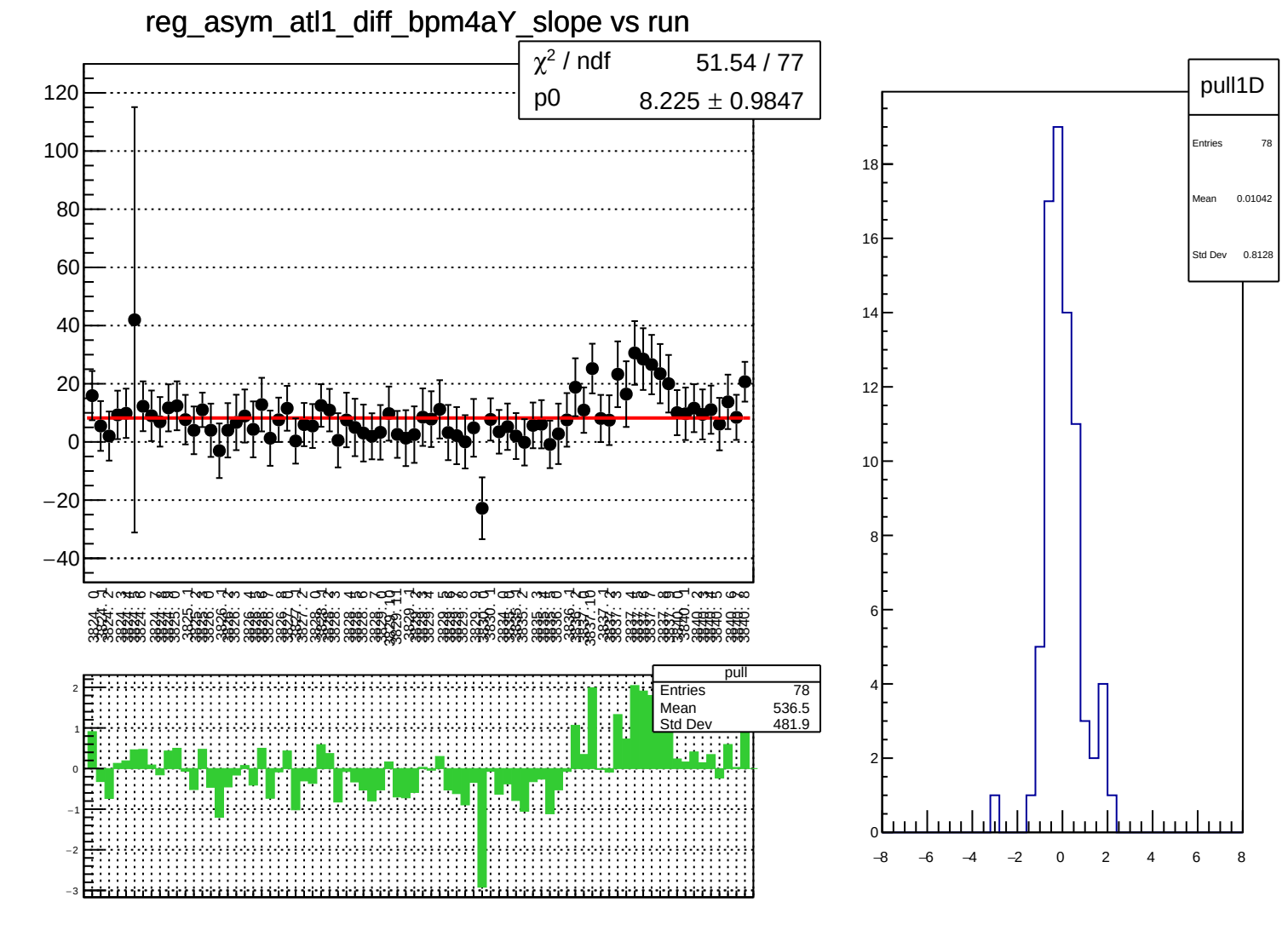

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 14.63 / 77
p0 23.58 ± 2.099
pull
Entries 78
Mean 242.9
Std Dev 204.1

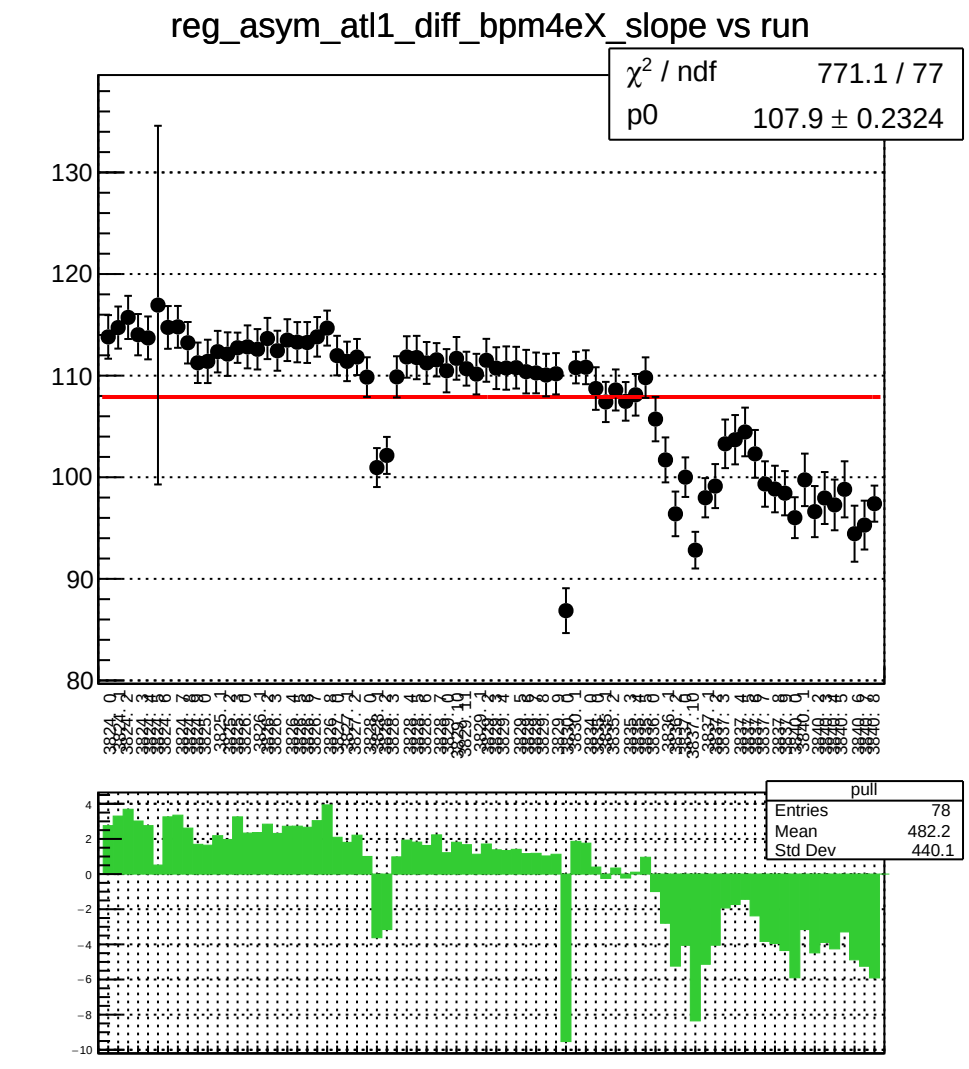

pull1D
Entries 78
Mean 0.02312
Std Dev 0.4325

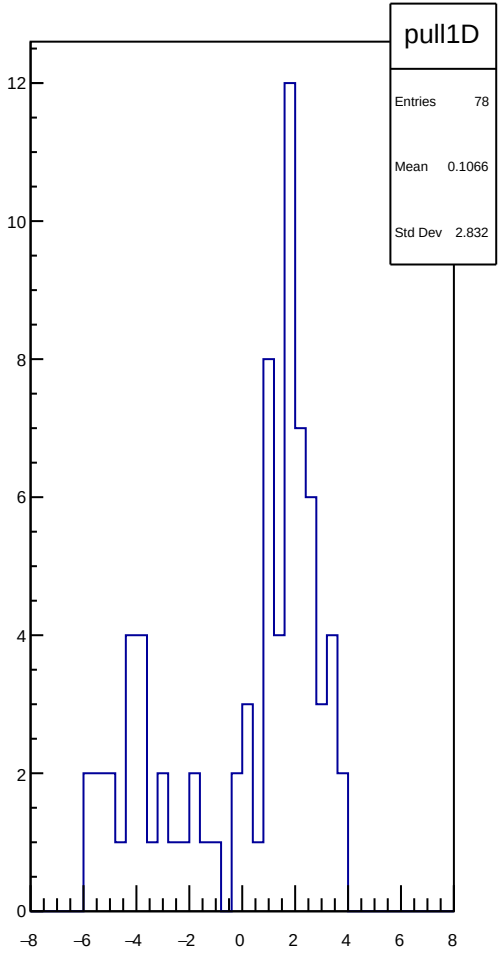

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 3273 / 77
p0 −146.2 ± 0.3892
pull
Entries 78
Mean 285
Std Dev 244.5

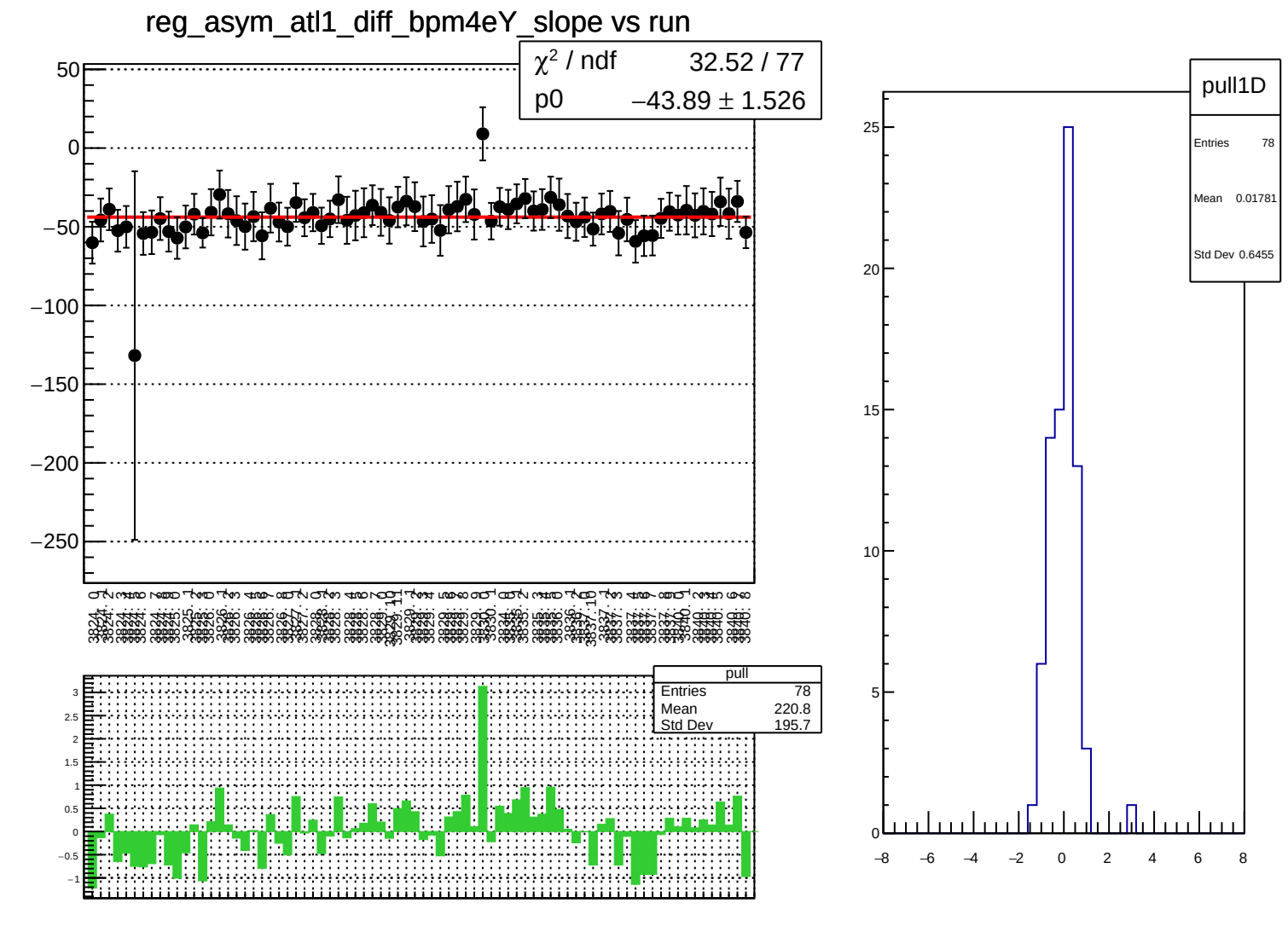

pull1D
Entries 78
Mean 1.083
Std Dev 4.568

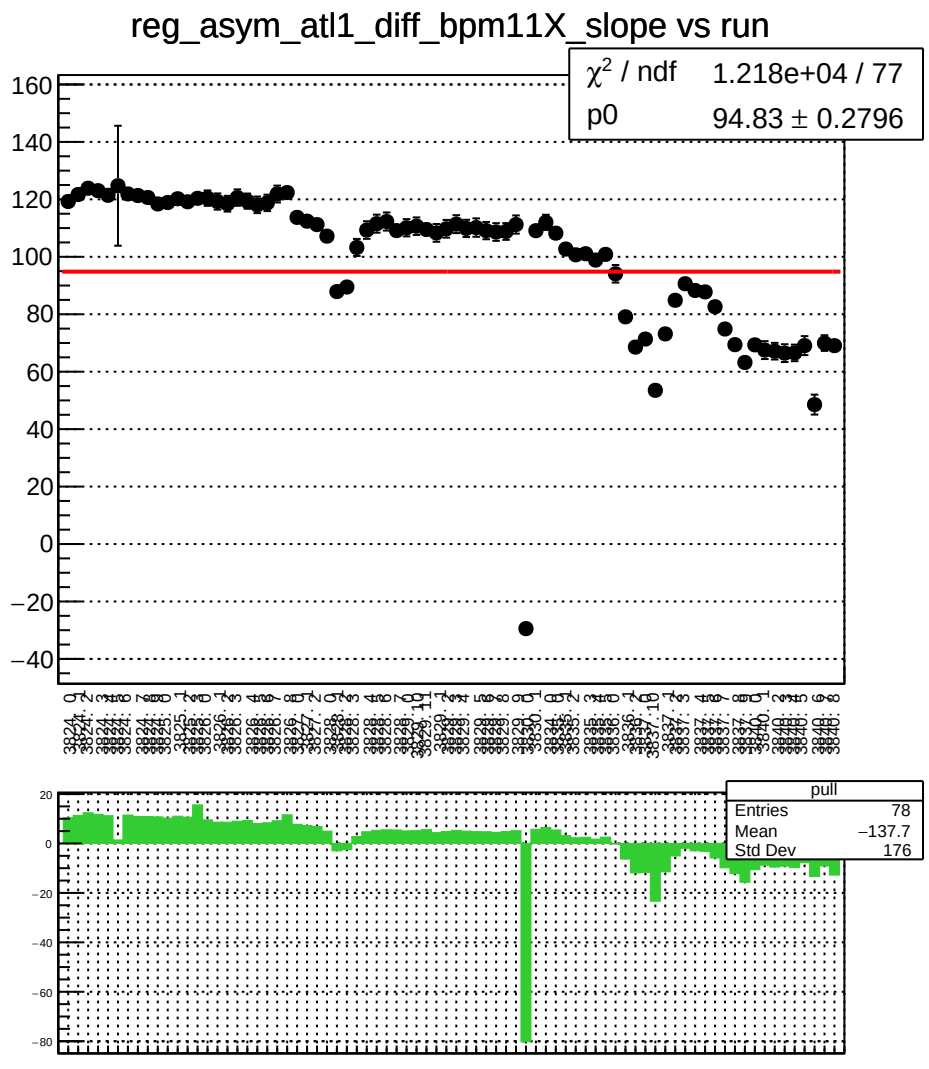

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 74.18 / 77
p0 16.39 ± 1.319
pull
Entries 78
Mean 1047
Std Dev 1005
pull1D
Entries 78
Mean −0.01287
Std Dev 0.9751

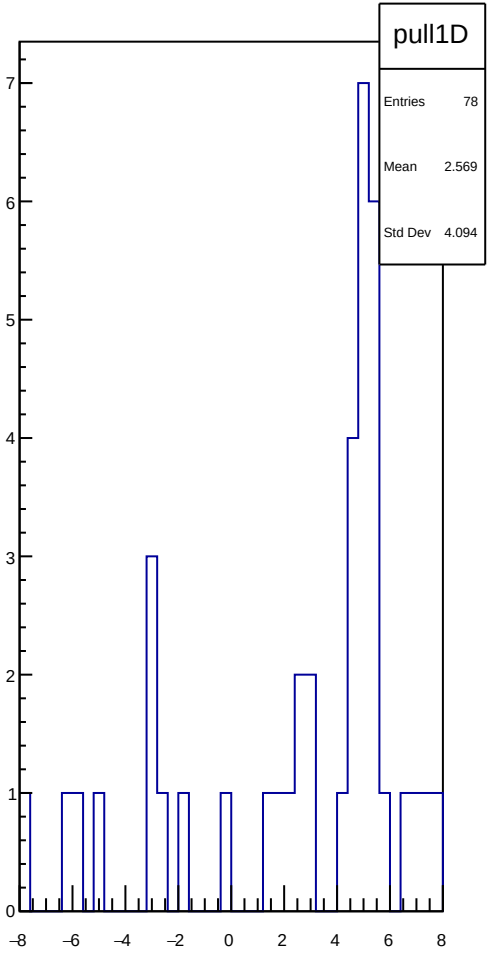

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 51.54 / 77
p0 8.225 ± 0.9847
pull
Entries 78
Mean 536.5
Std Dev 481.9
pull1D
Entries 78
Mean 0.01042
Std Dev 0.8128

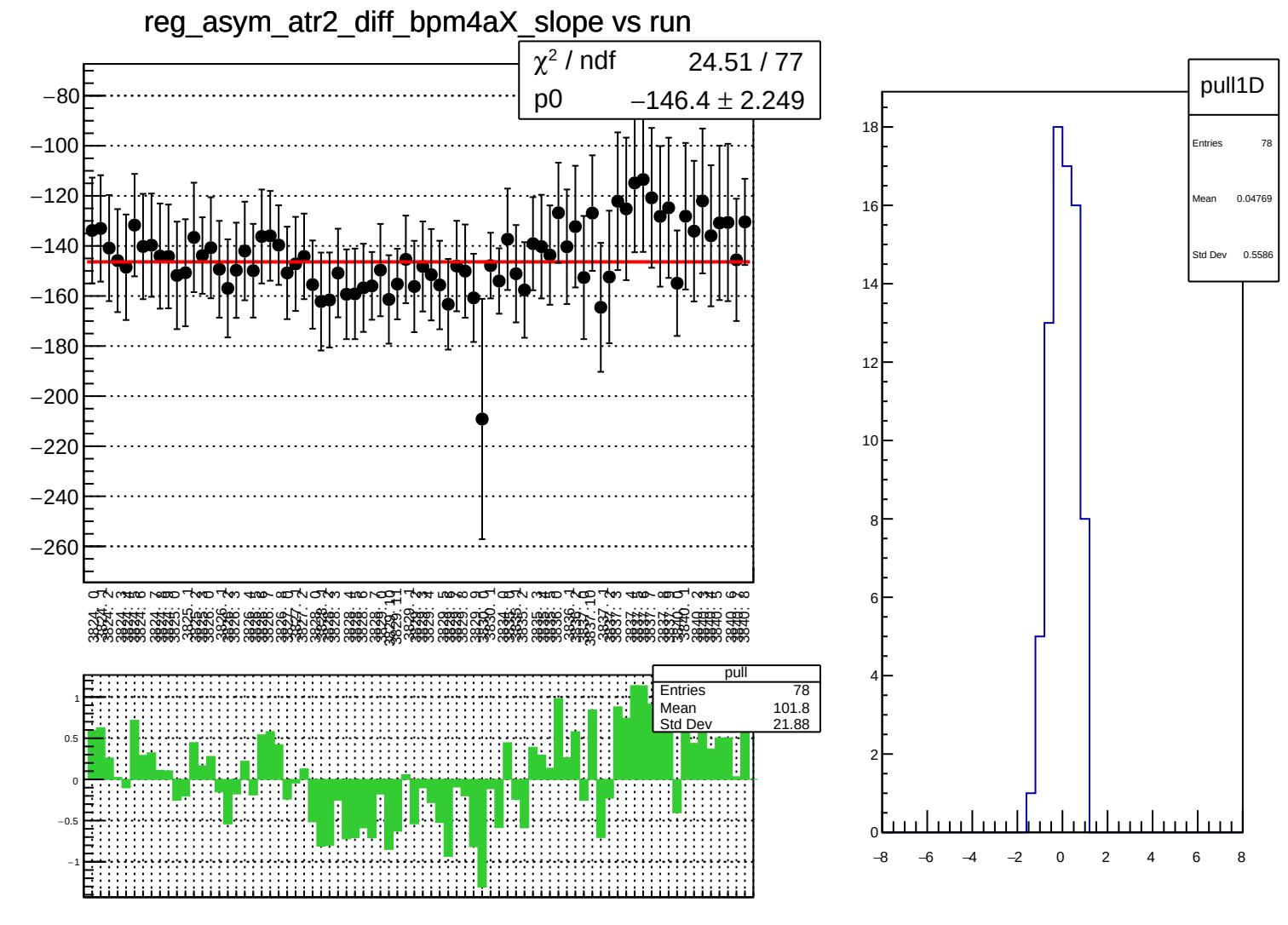

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 771.1 / 77
p0 107.9 ± 0.2324
pull
Entries 78
Mean 482.2
Std Dev 440.1

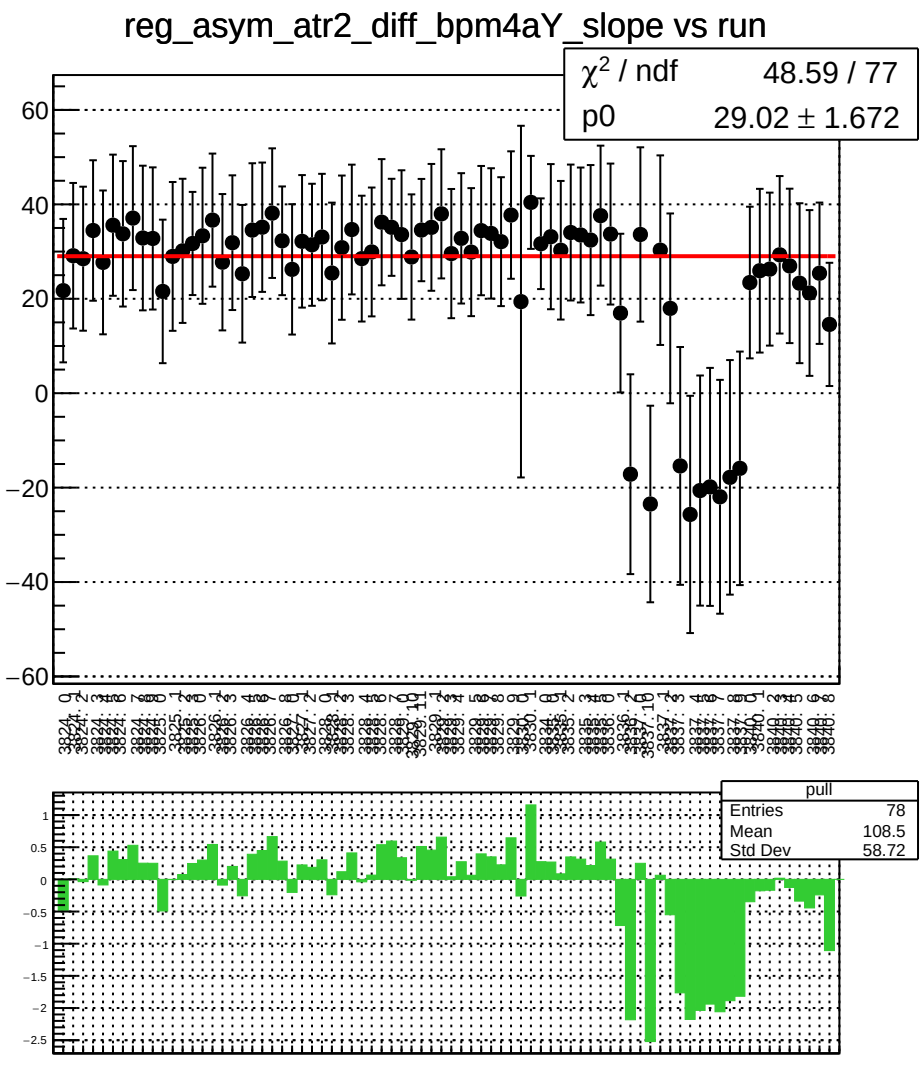

pull1D
Entries 78
Mean 0.1066
Std Dev 2.832

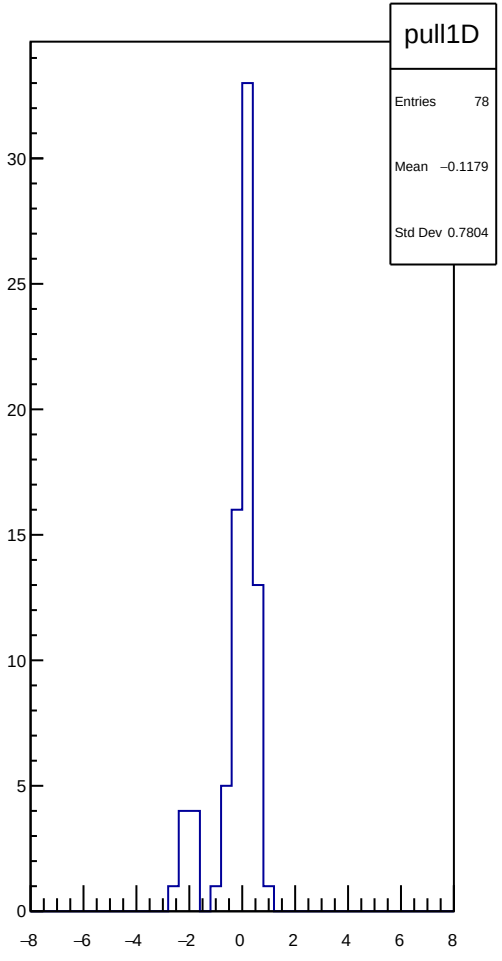

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 32.52 / 77
p0 −43.89 ± 1.526
pull
Entries 78
Mean 220.8
Std Dev 195.7
pull1D
Entries 78
Mean 0.01781
Std Dev 0.6455

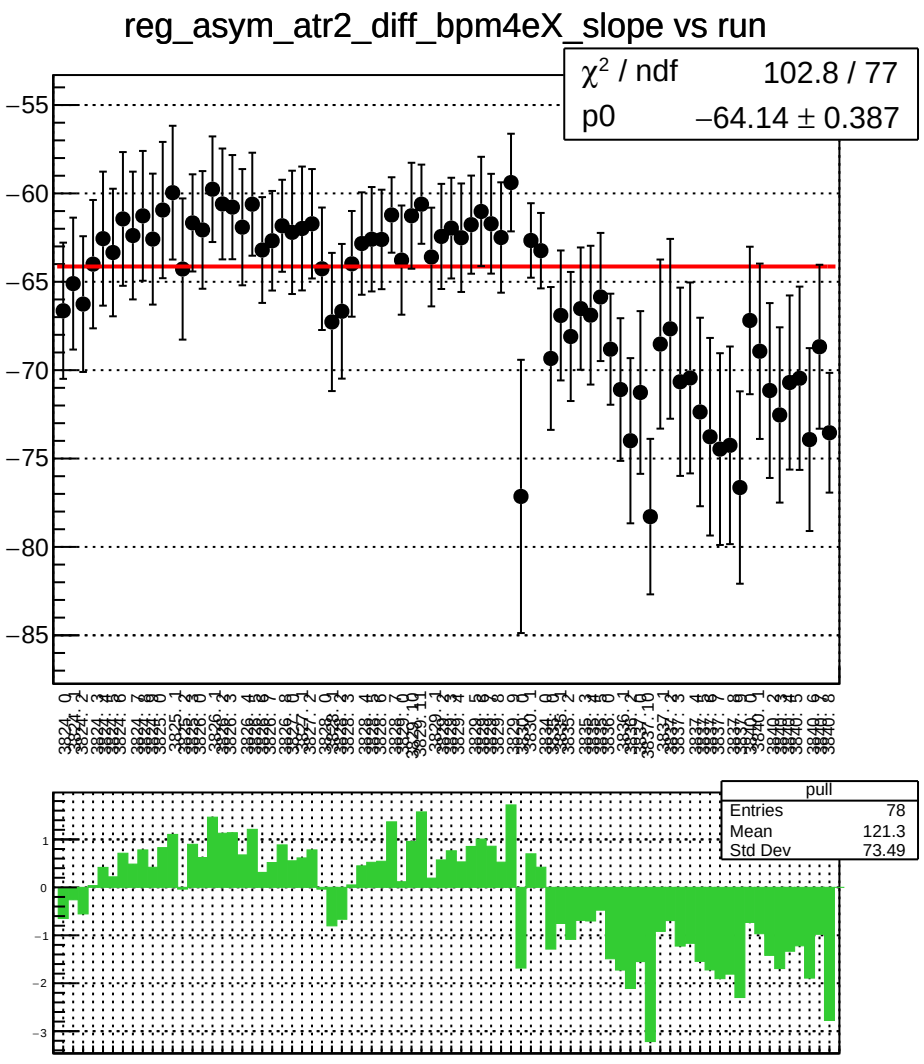

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 1.218e+04 / 77
p0 94.83 ± 0.2796
pull
Entries 78
Mean −137.7
Std Dev 176

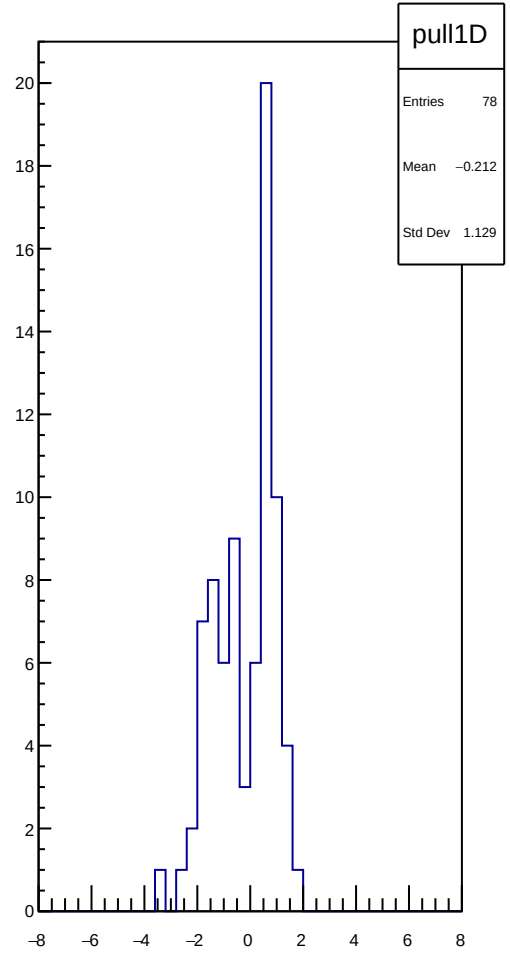

pull1D
Entries 78
Mean 2.569
Std Dev 4.094

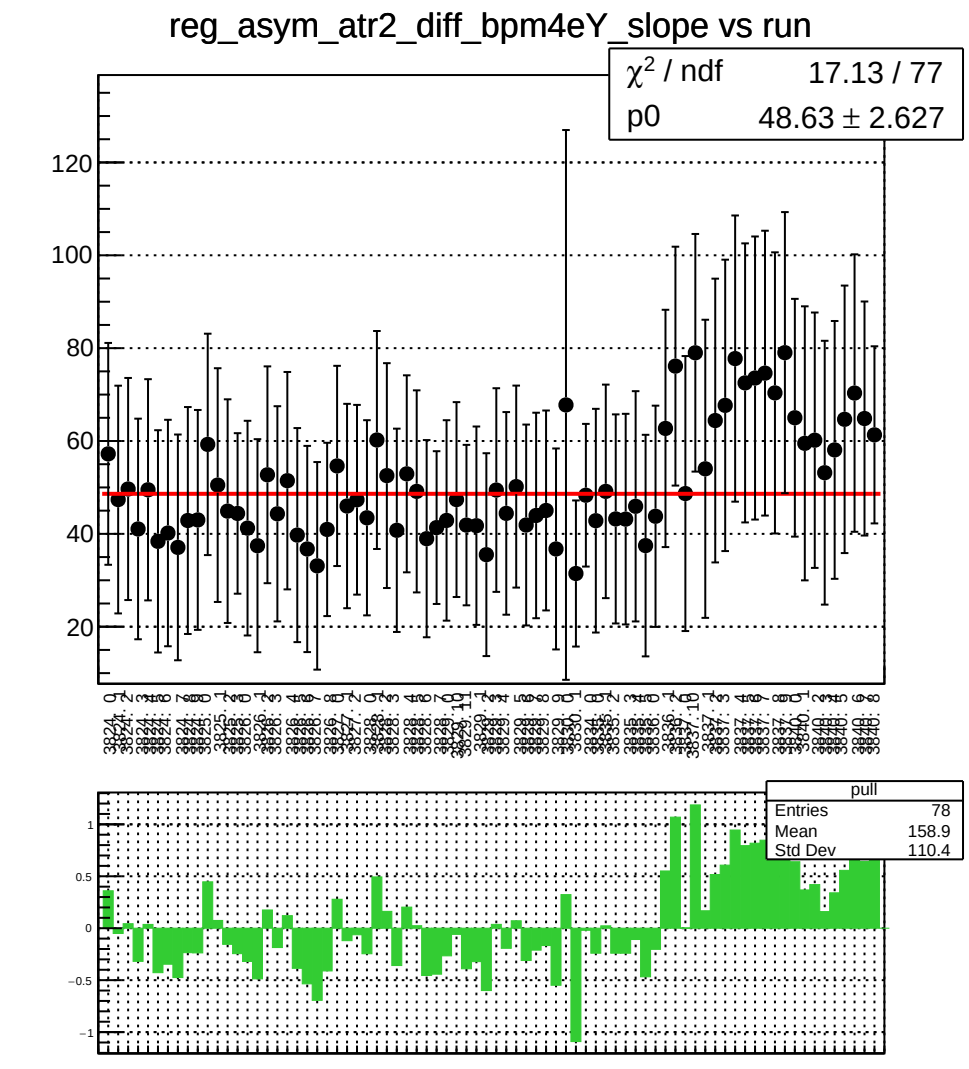

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 24.51 / 77
p0 −146.4 ± 2.249
pull
Entries 78
Mean 101.8
Std Dev 21.88
pull1D
Entries 78
Mean 0.04769
Std Dev 0.5586

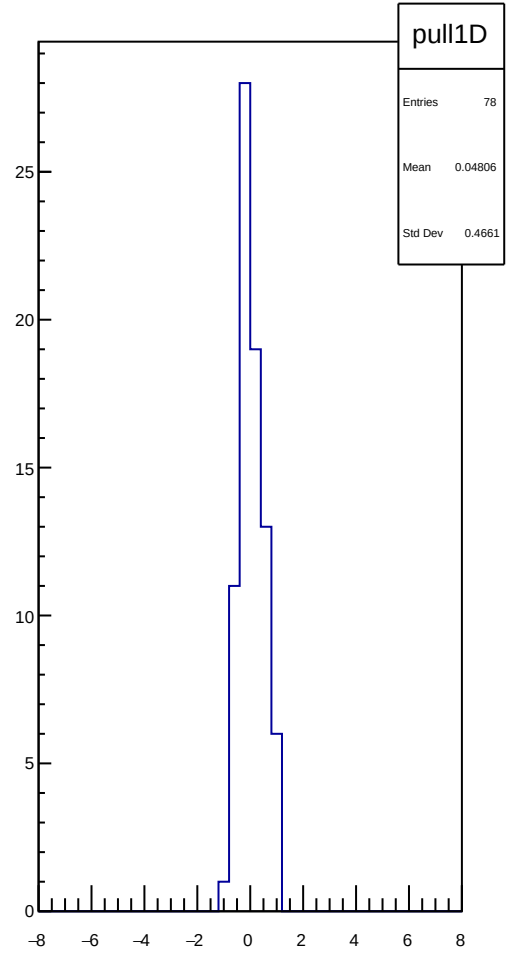

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 48.59 / 77
p0 29.02 ± 1.672
pull
Entries 78
Mean 108.5
Std Dev 58.72

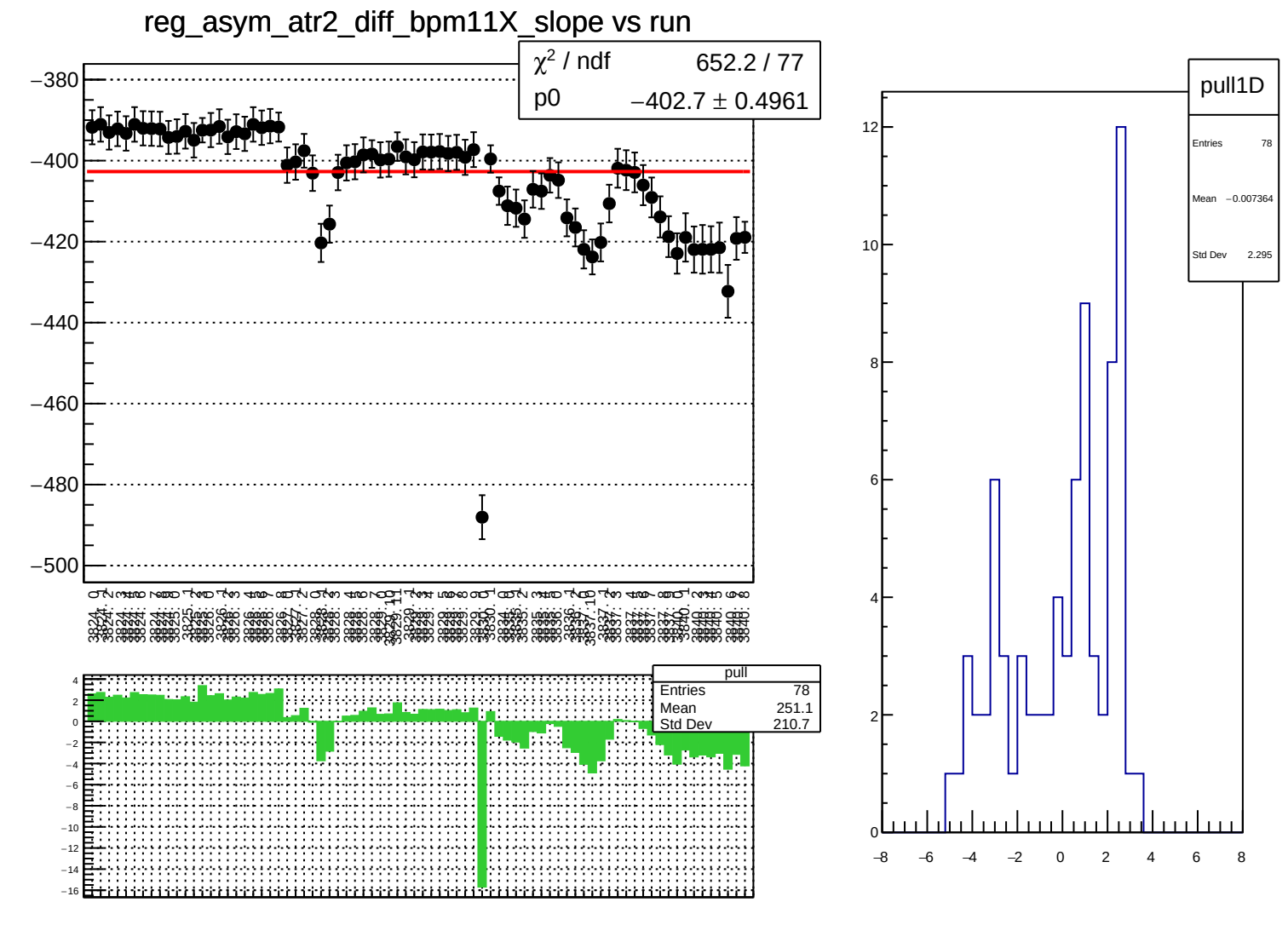

pull1D
Entries 78
Mean −0.1179
Std Dev 0.7804

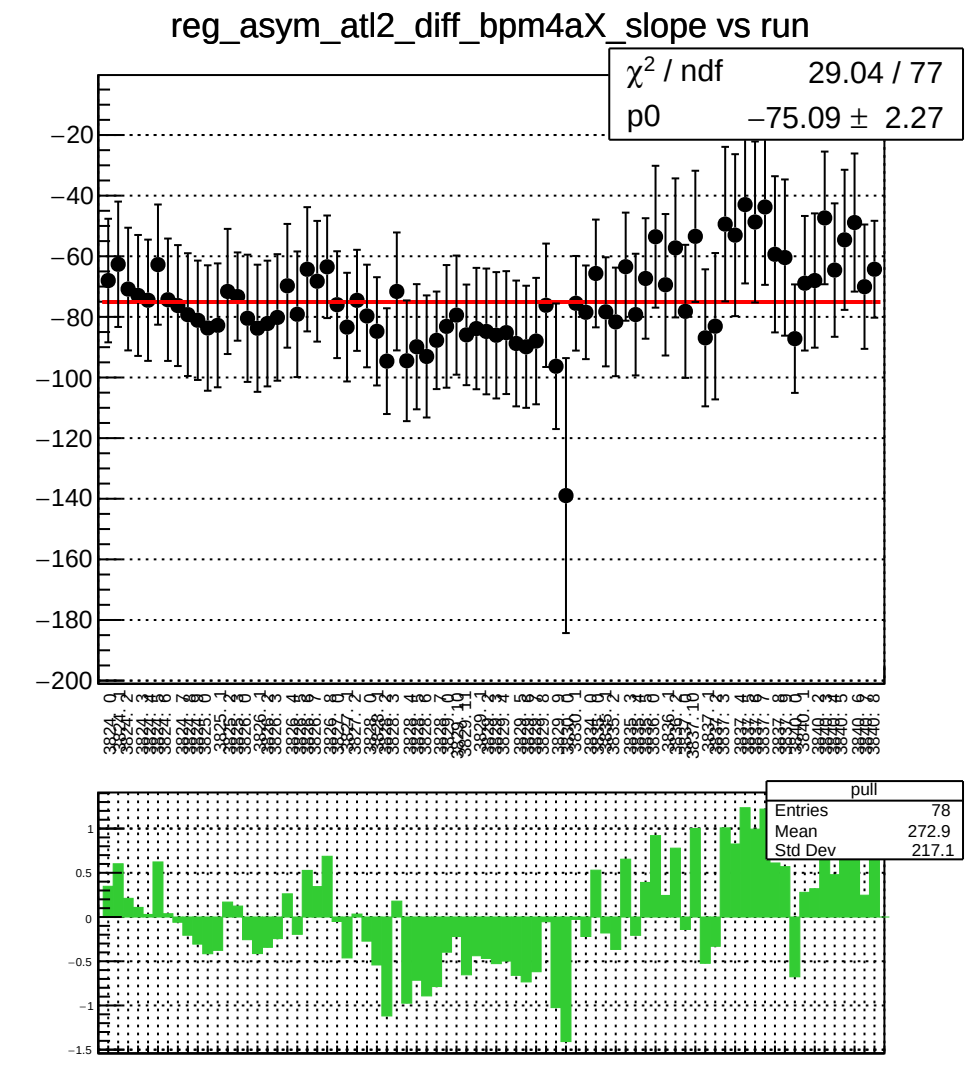

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 102.8 / 77
p0 −64.14 ± 0.387
pull
Entries 78
Mean 121.3
Std Dev 73.49

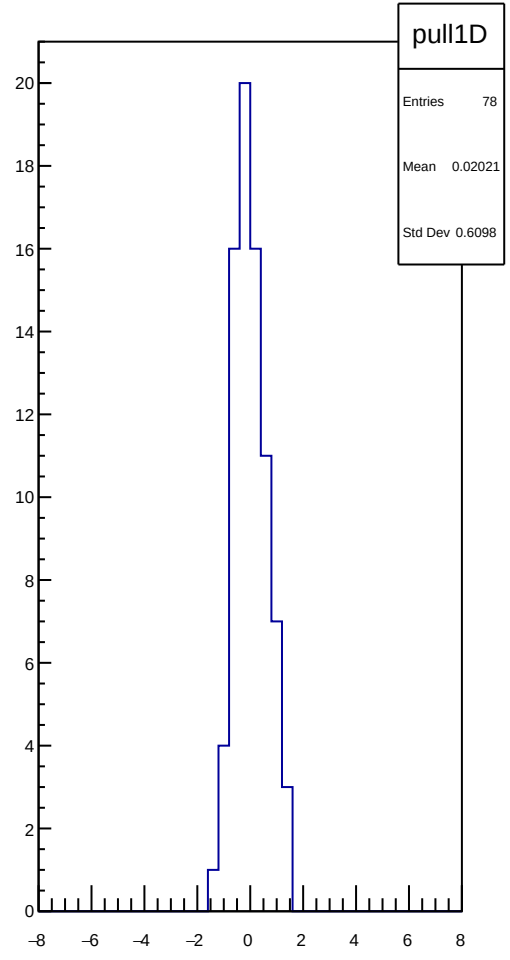

pull1D
Entries 78
Mean −0.212
Std Dev 1.129

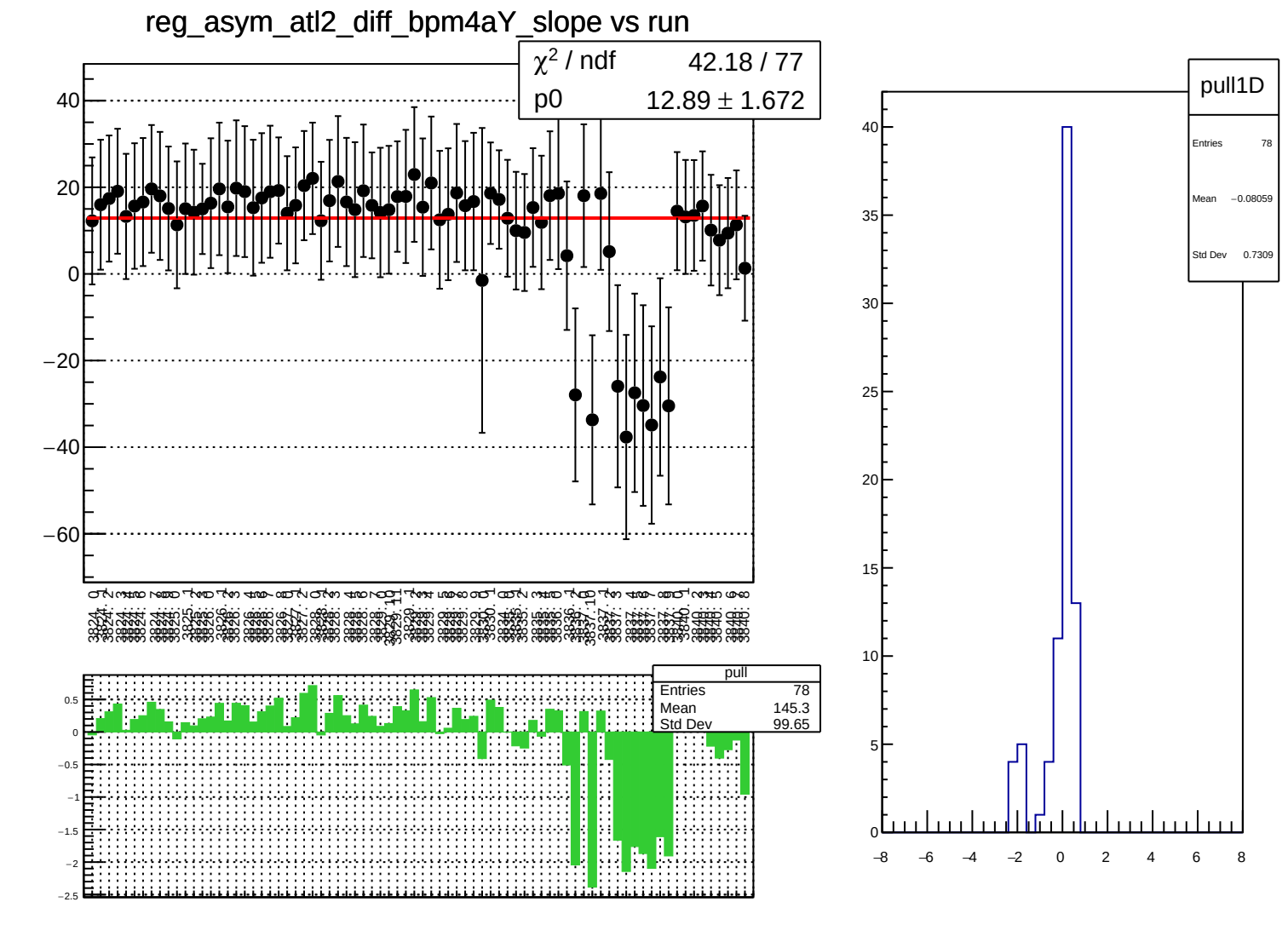

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 17.13 / 77
p0 48.63 ± 2.627
pull
Entries 78
Mean 158.9
Std Dev 110.4

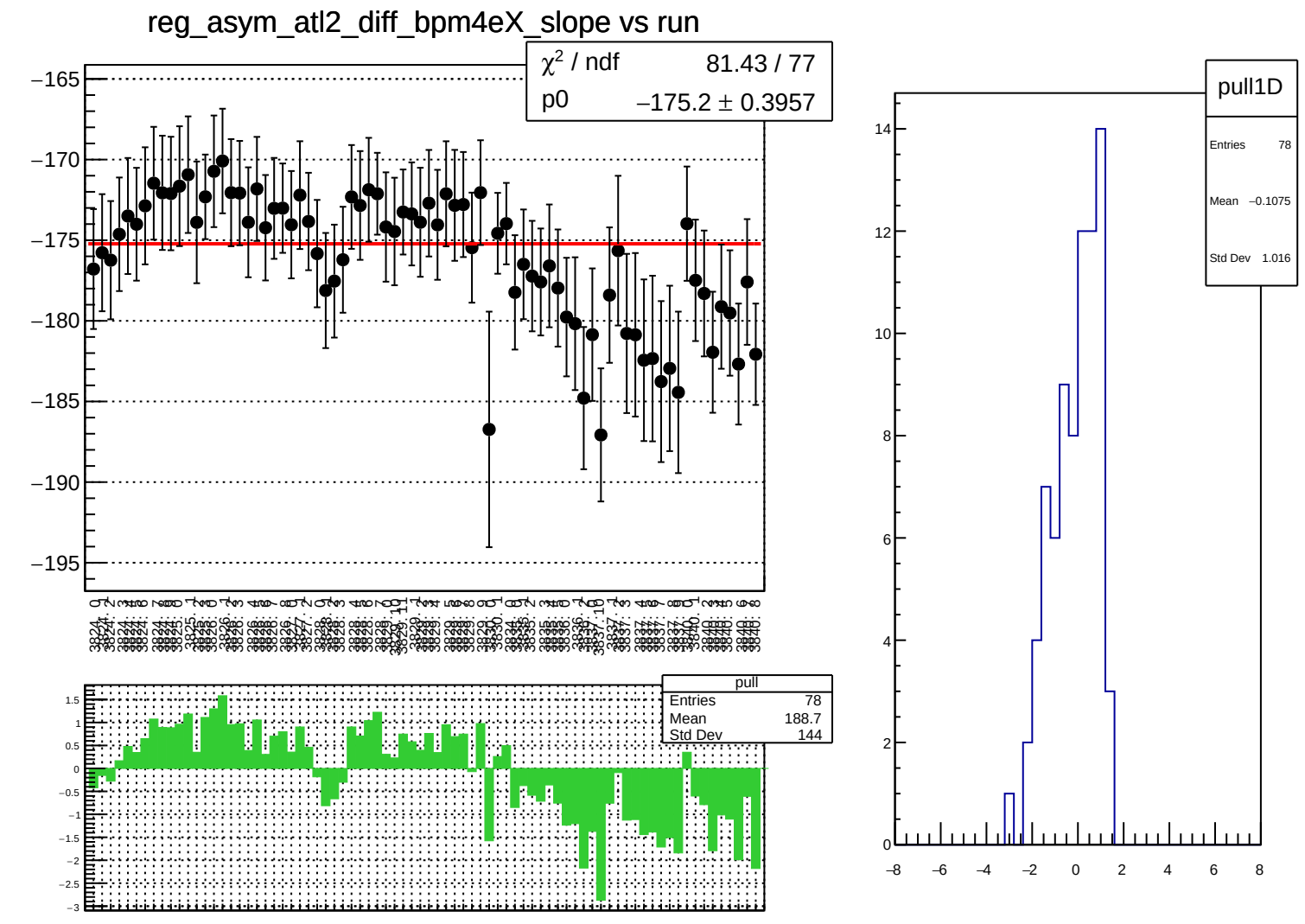

pull1D
Entries 78
Mean 0.04806
Std Dev 0.4661

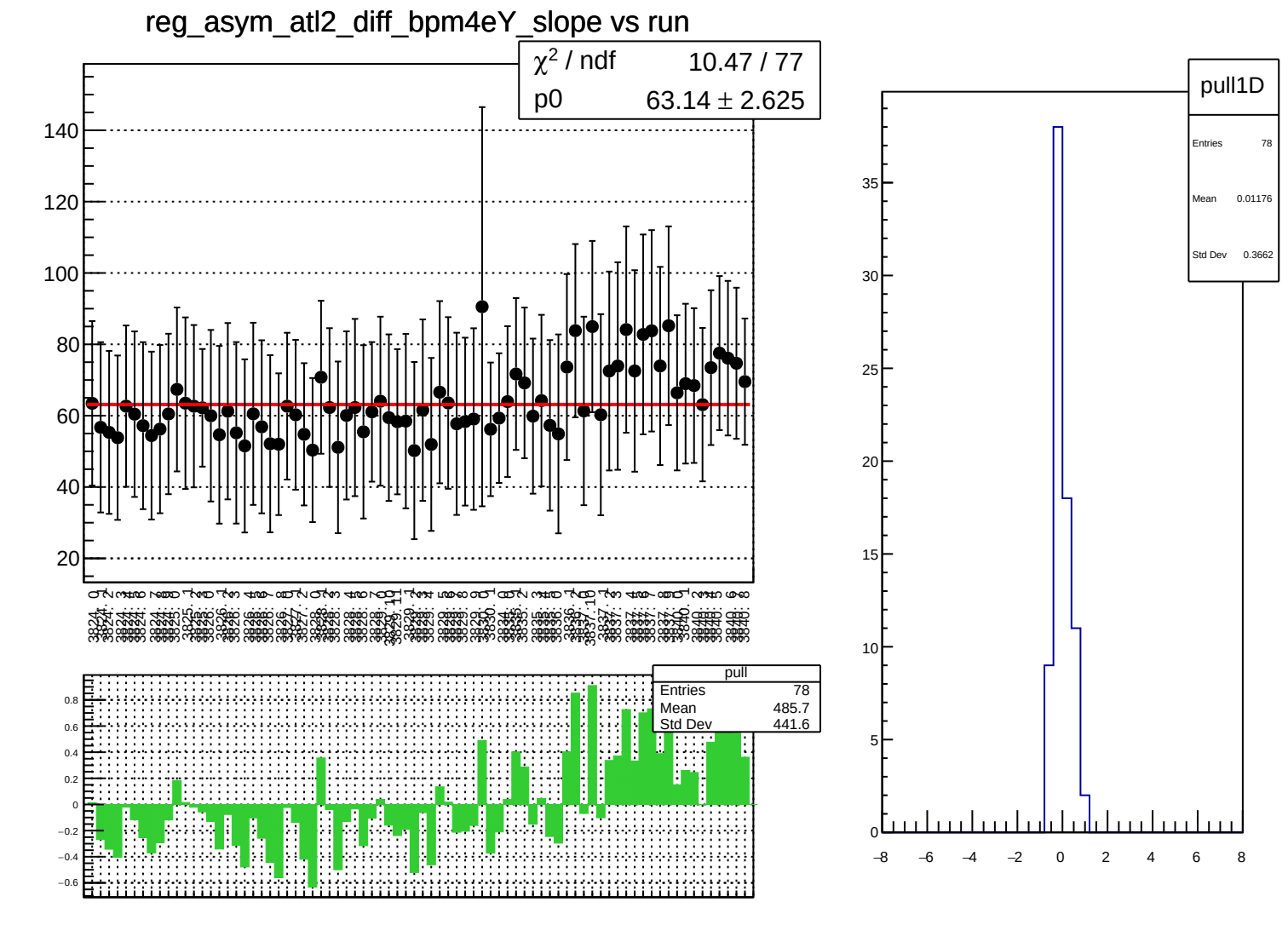

reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 652.2 / 77
p0 −402.7 ± 0.4961
pull
Entries 78
Mean 251.1
Std Dev 210.7
pull1D
Entries 78
Mean −0.007364
Std Dev 2.295

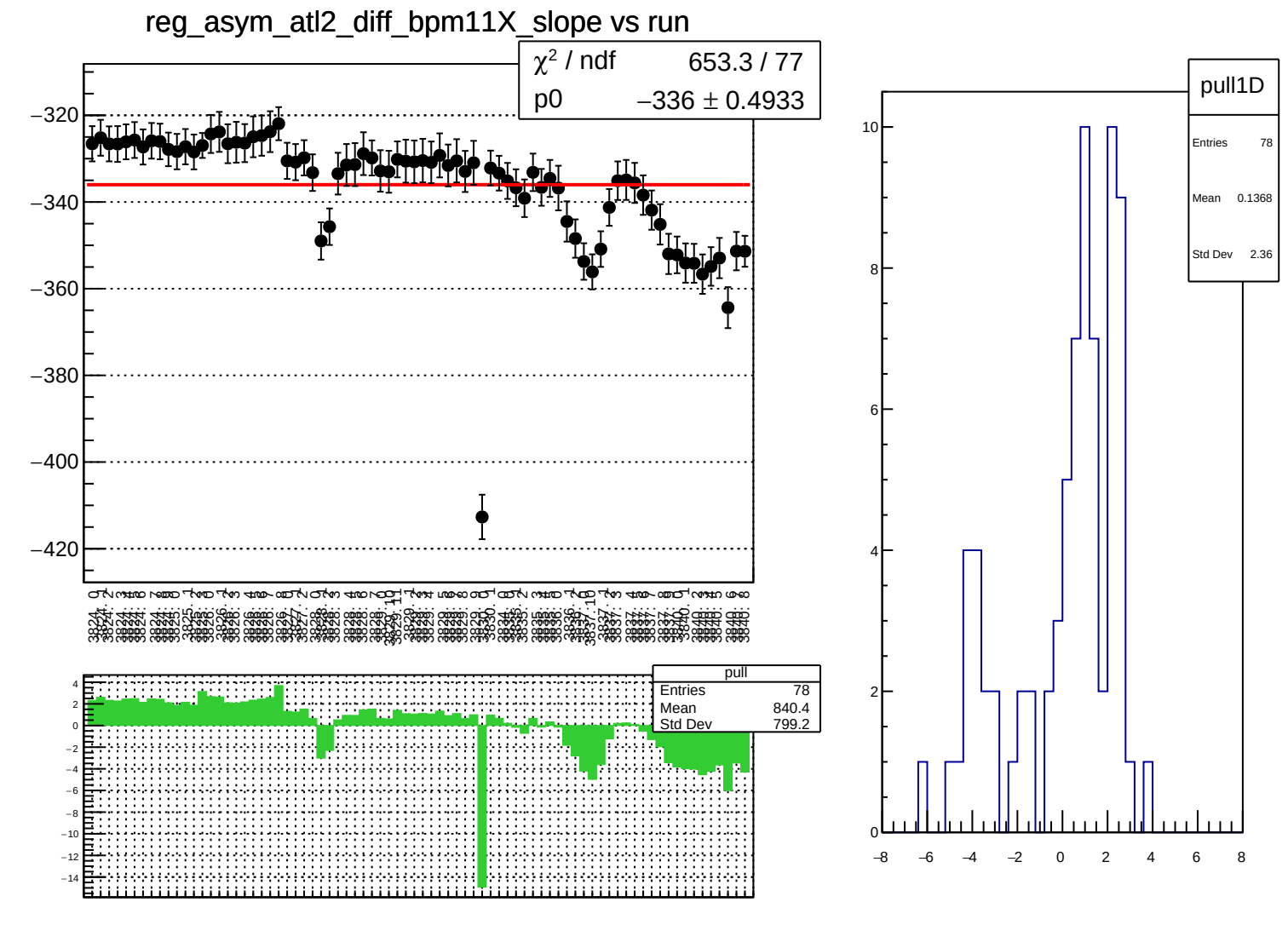

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 29.04 / 77
p0 −75.09 ± 2.27
pull
Entries 78
Mean 272.9
Std Dev 217.1

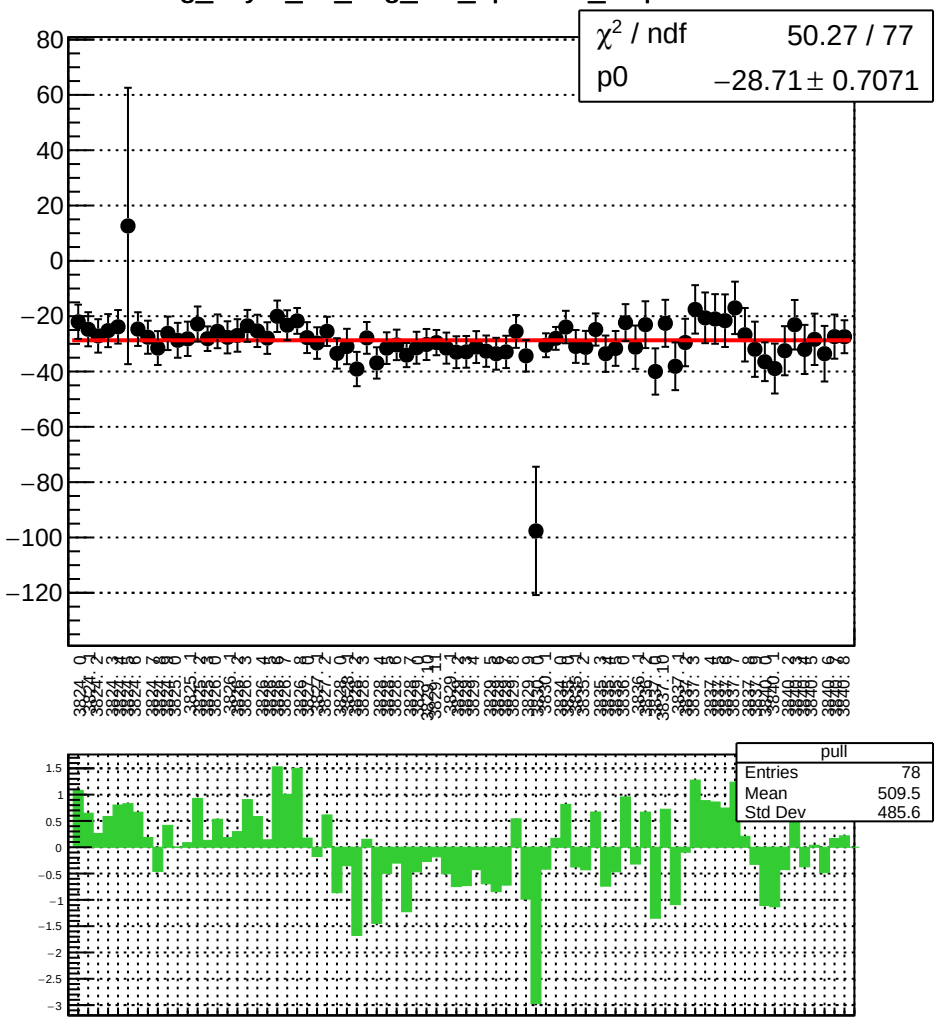

pull1D
Entries 78
Mean 0.02021
Std Dev 0.6098

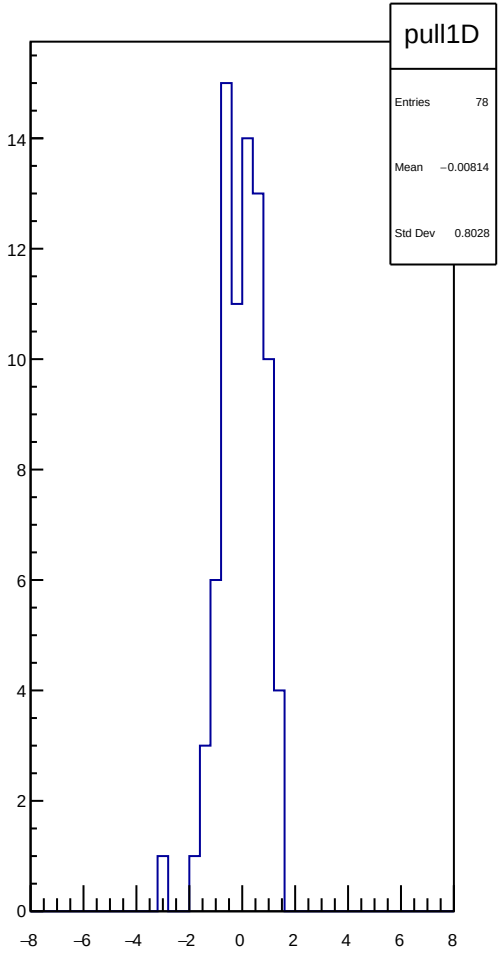

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 42.18 / 77
p0 12.89 ± 1.672
pull
Entries 78
Mean 145.3
Std Dev 99.65
pull1D
Entries 78
Mean −0.08059
Std Dev 0.7309

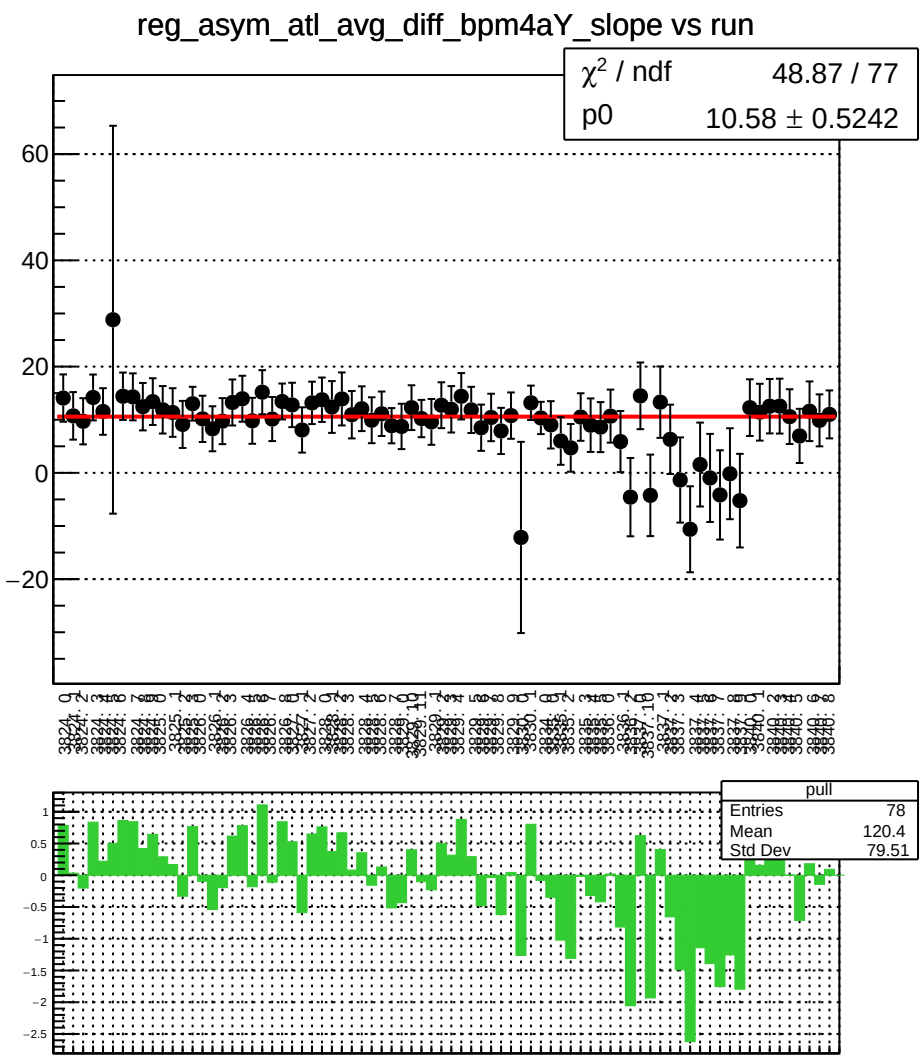

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 81.43 / 77
p0 −175.2 ± 0.3957
−165
−170
−175
−180
−185
−190
−195
pull
Entries 78
Mean 188.7
Std Dev 144
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 78
Mean −0.1075
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

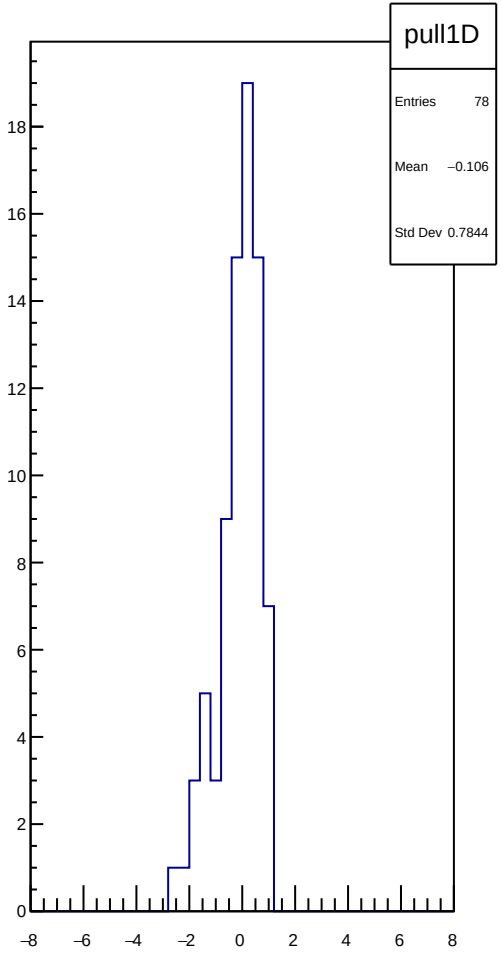

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 10.47 / 77
p0 63.14 ± 2.625
pull
Entries 78
Mean 485.7
Std Dev 441.6
pull1D
Entries 78
Mean 0.01176
Std Dev 0.3662

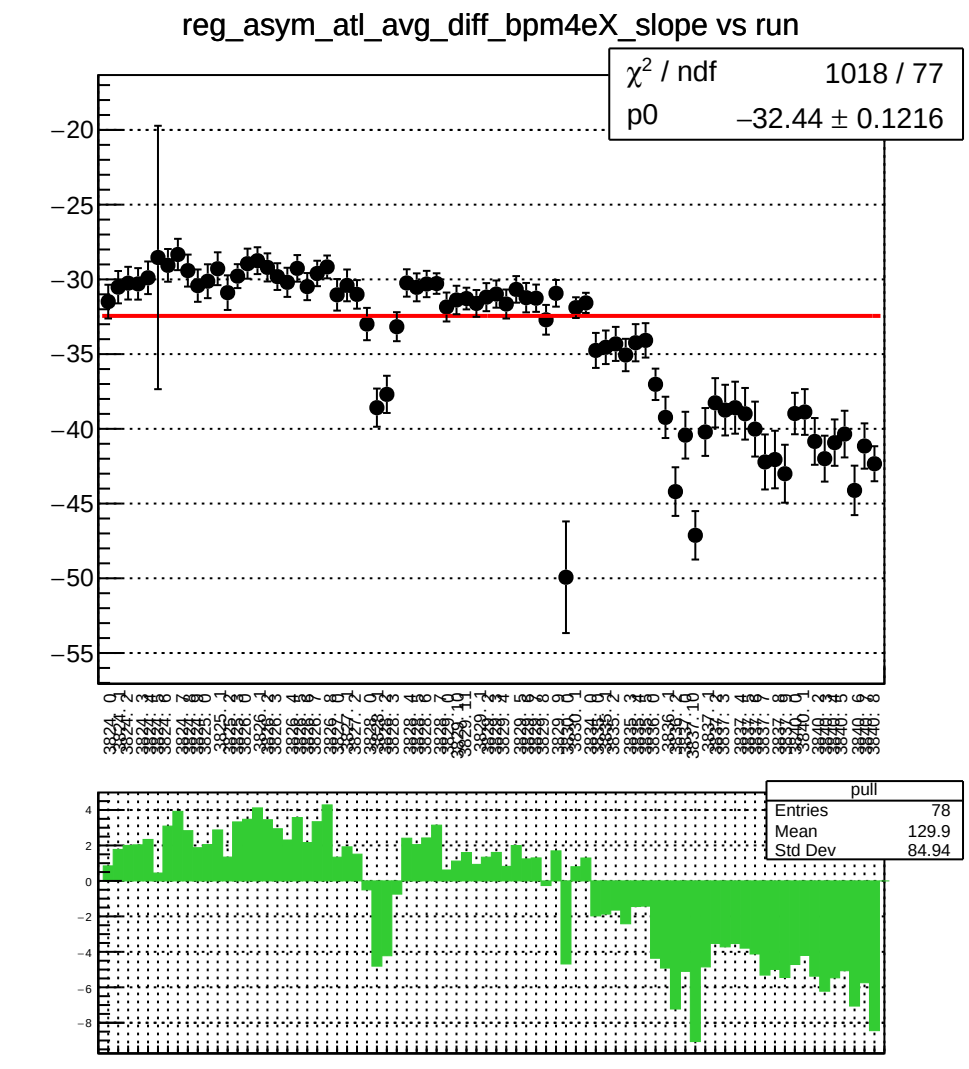

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 653.3 / 77
p0 −336 ± 0.4933
−320
−340
−360
−380
−400
−420
pull
Entries 78
Mean 840.4
Std Dev 799.2
pull1D
Entries 78
Mean 0.1368
Std Dev 2.36

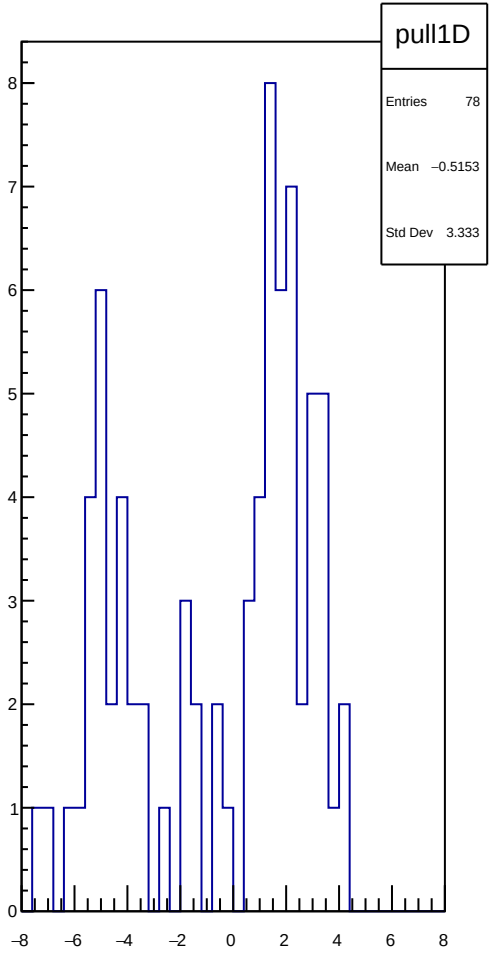

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 50.27 / 77
p0 −28.71 ± 0.7071
pull
Entries 78
Mean 509.5
Std Dev 485.6

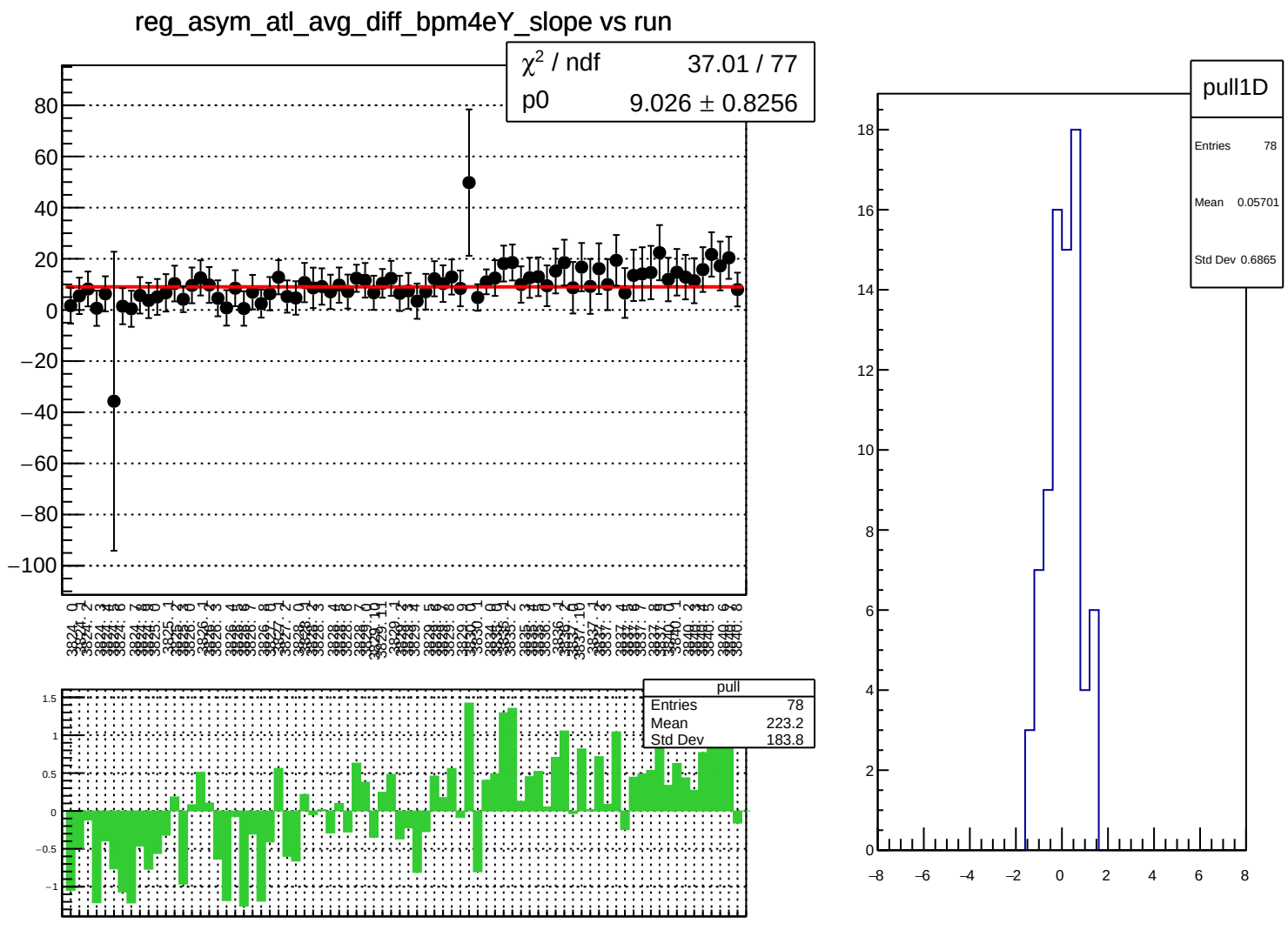

pull1D
Entries 78
Mean −0.00814
Std Dev 0.8028

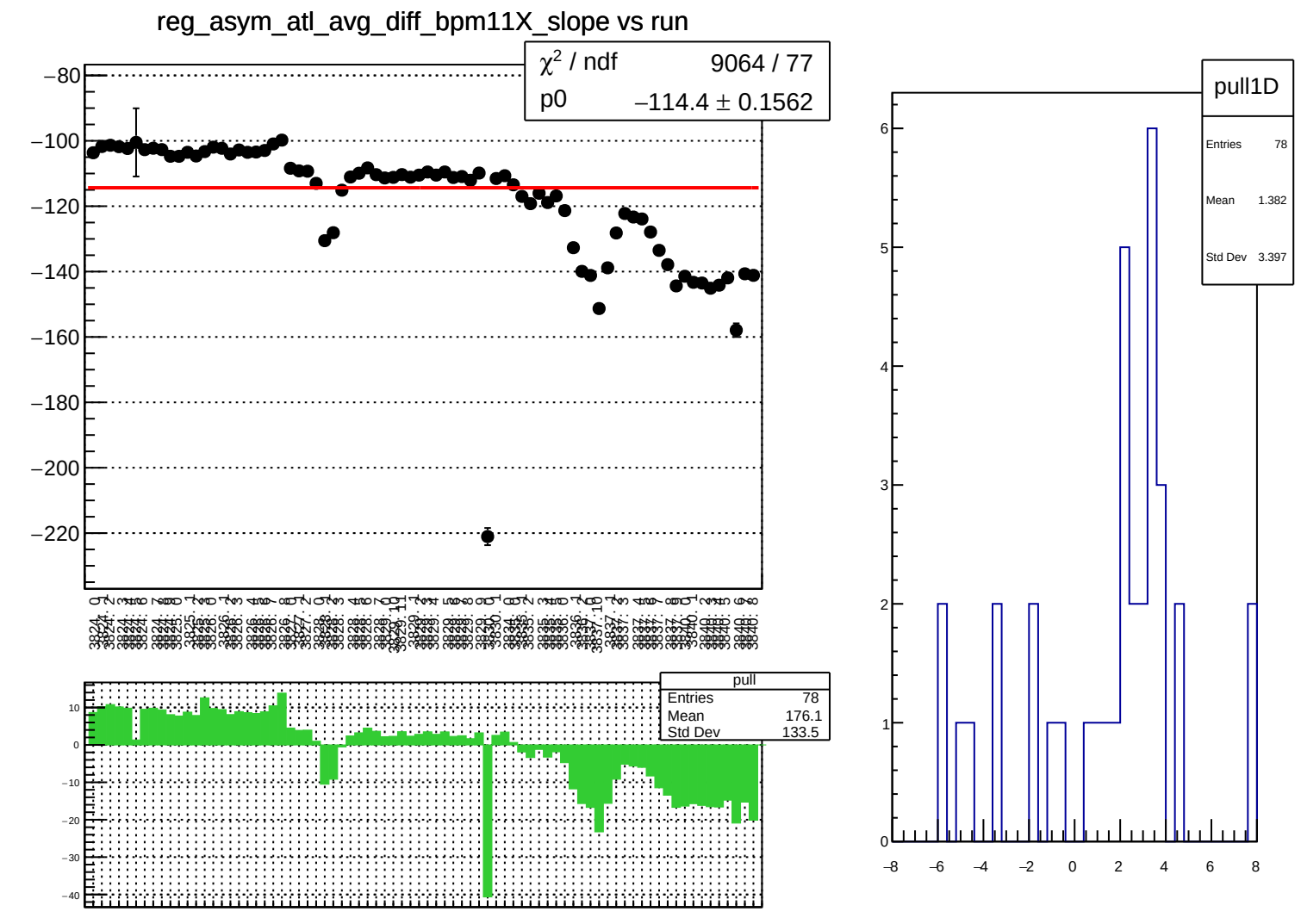

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.87 / 77
p0 10.58 ± 0.5242
pull
Entries 78
Mean 120.4
Std Dev 79.51

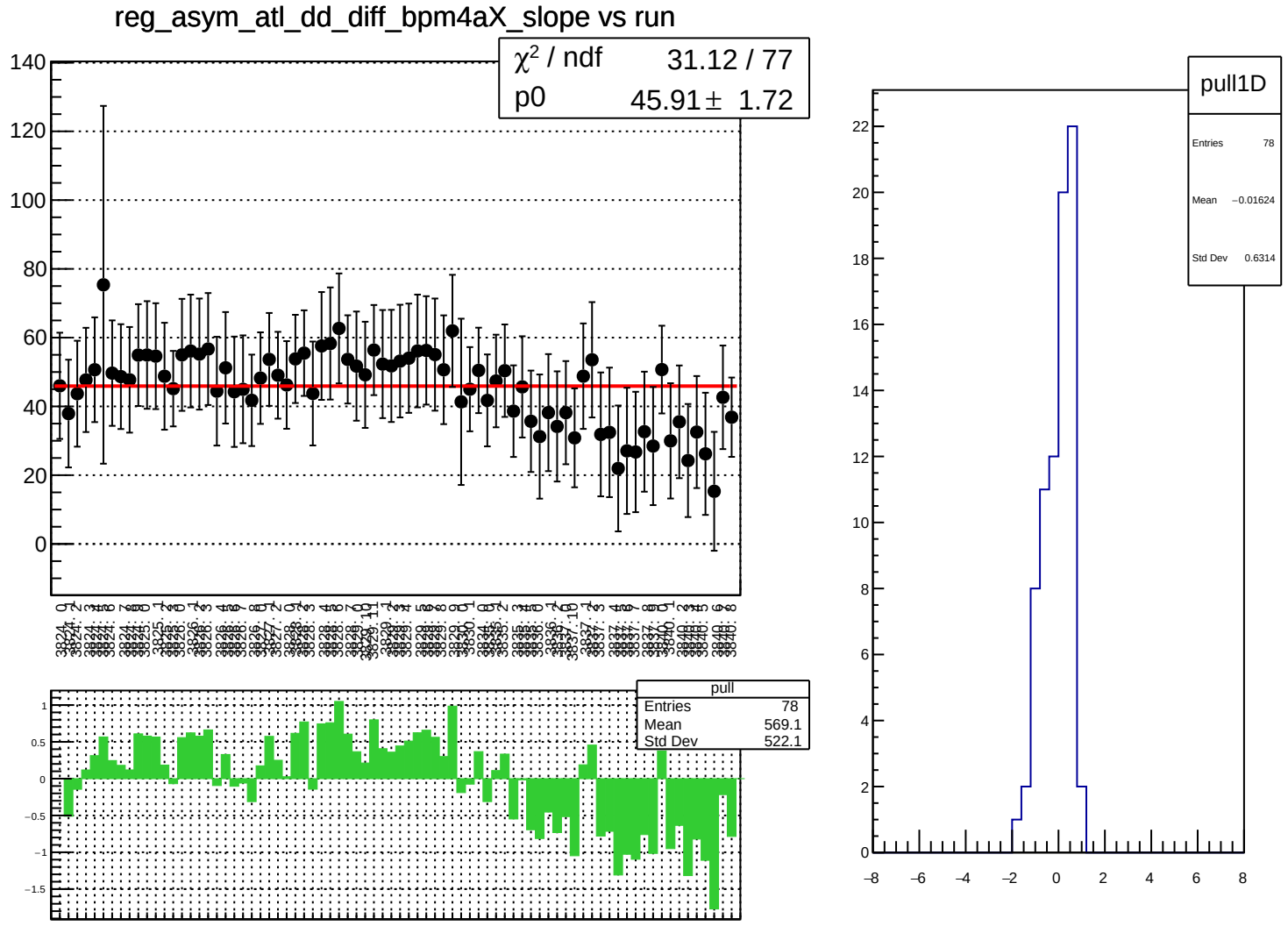

pull1D
Entries 78
Mean −0.106
Std Dev 0.7844

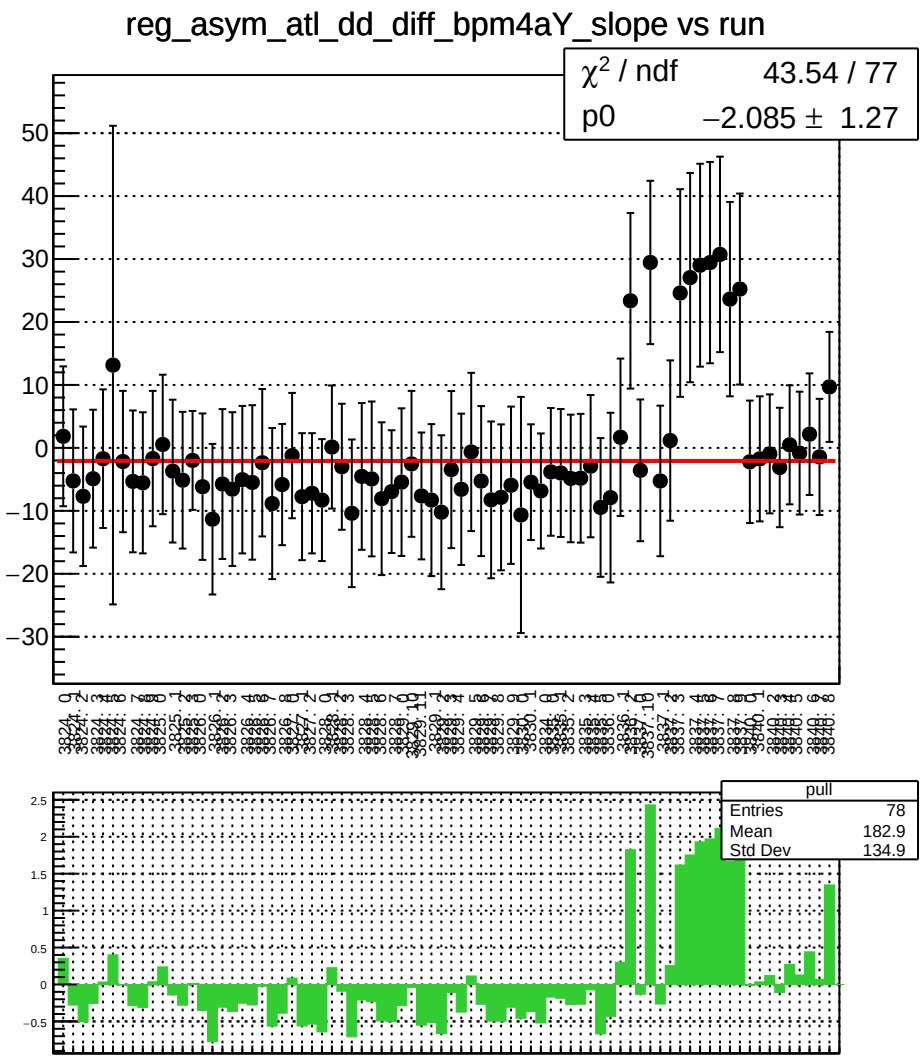

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 1018 / 77
p0 −32.44 ± 0.1216
pull
Entries 78
Mean 129.9
Std Dev 84.94

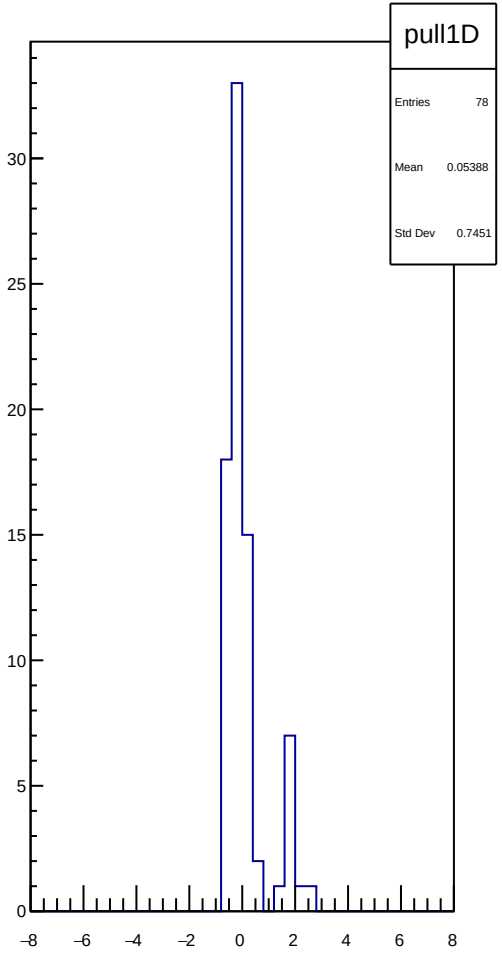

pull1D
Entries 78
Mean −0.5153
Std Dev 3.333

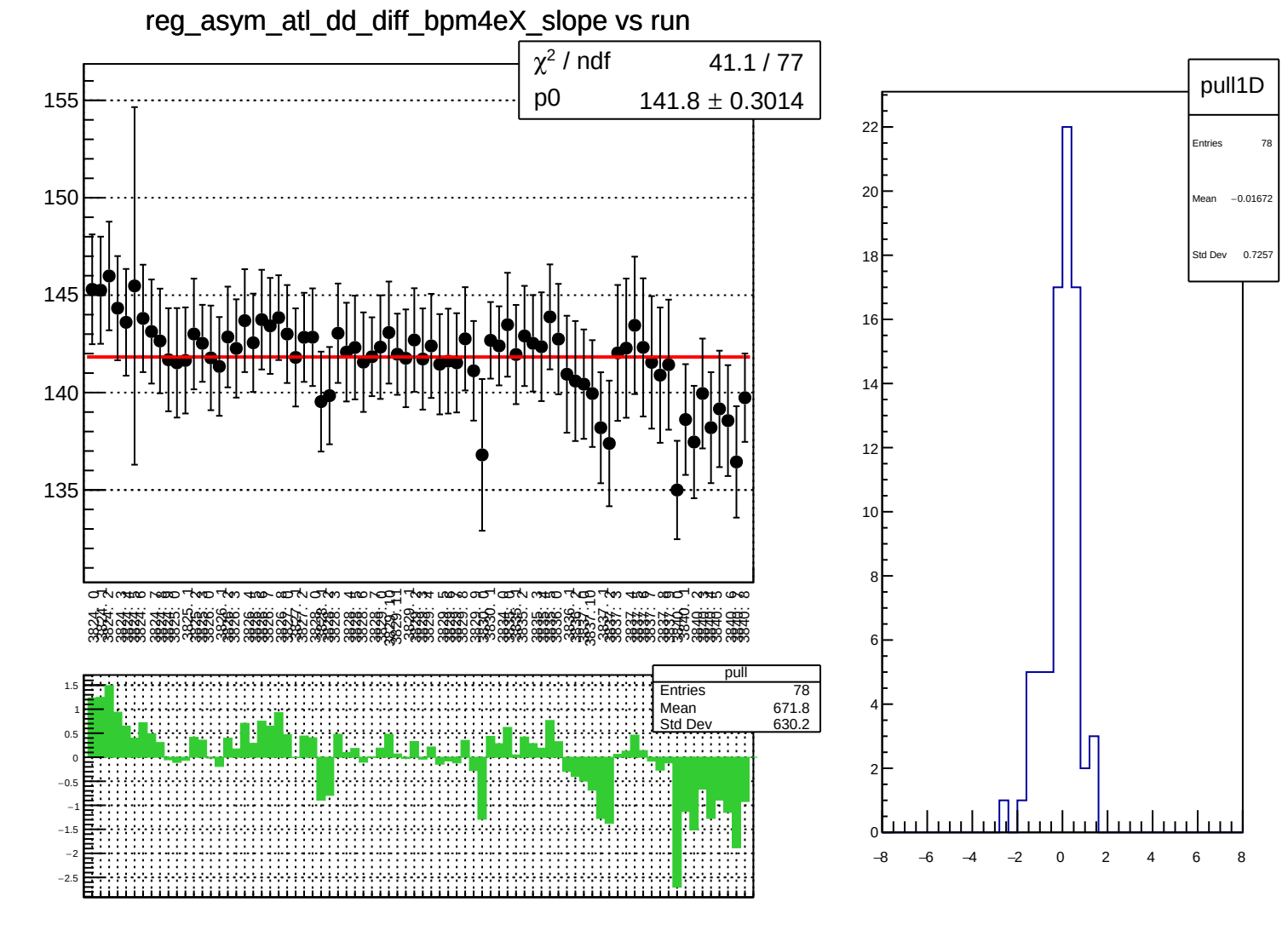

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.01 / 77
p0 9.026 ± 0.8256
pull
Entries 78
Mean 223.2
Std Dev 183.8
pull1D
Entries 78
Mean 0.05701
Std Dev 0.6865

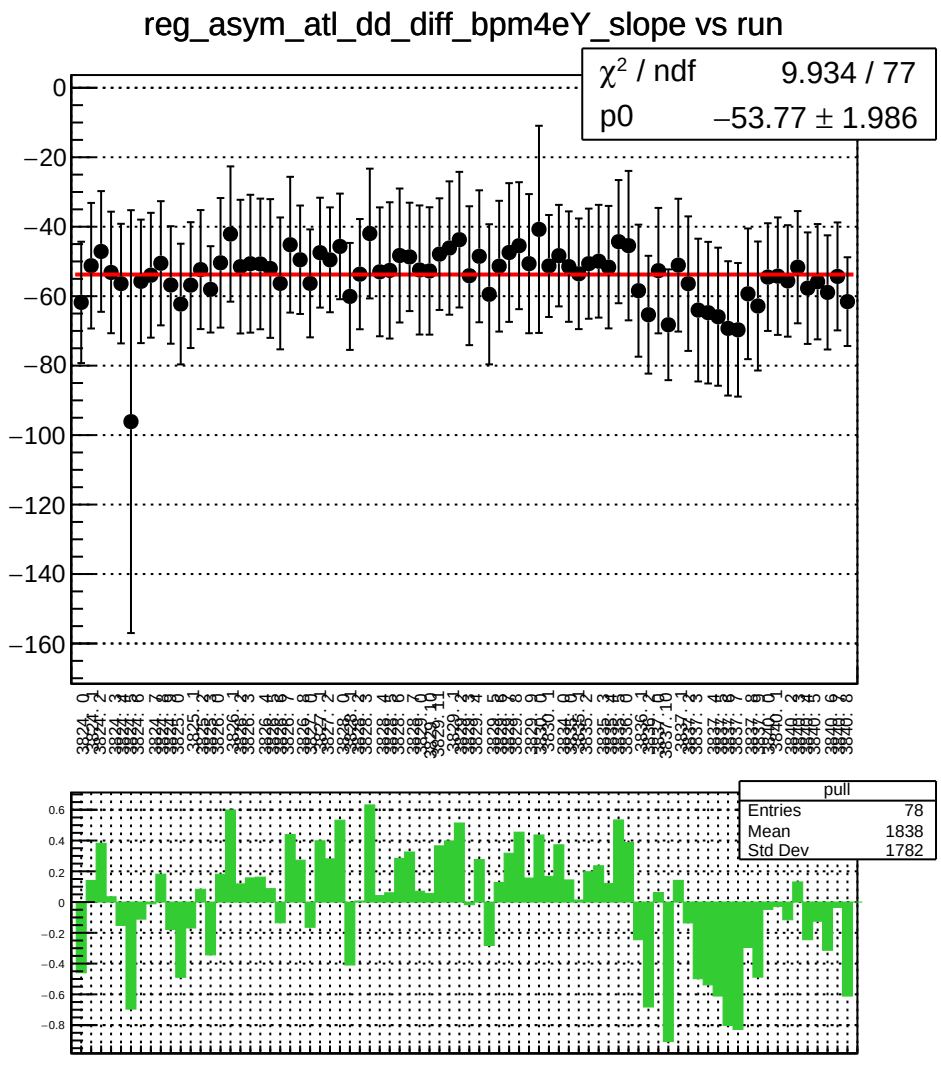

reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 9064 / 77
p0 −114.4 ± 0.1562
pull
Entries 78
Mean 176.1
Std Dev 133.5
pull1D
Entries 78
Mean 1.382
Std Dev 3.397

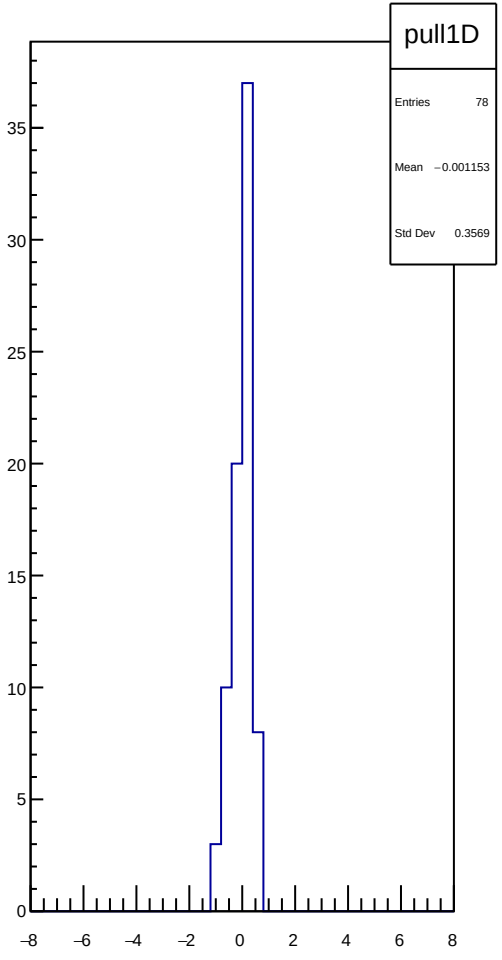

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 31.12 / 77
p0 45.91 ± 1.72
pull
Entries 78
Mean 569.1
Std Dev 522.1
pull1D
Entries 78
Mean −0.01624
Std Dev 0.6314

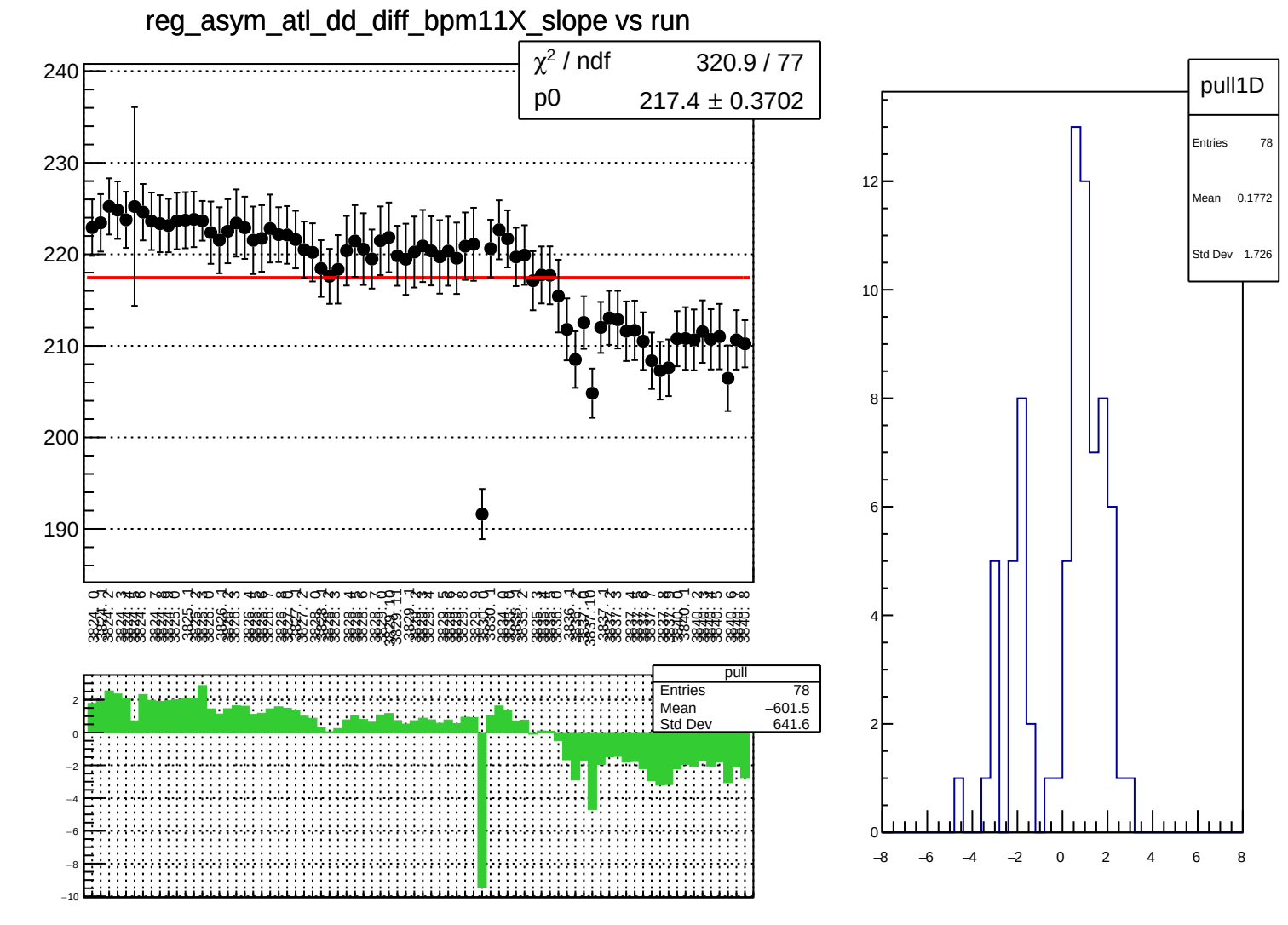

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.54 / 77
p0 −2.085 ± 1.27
pull
Entries 78
Mean 182.9
Std Dev 134.9

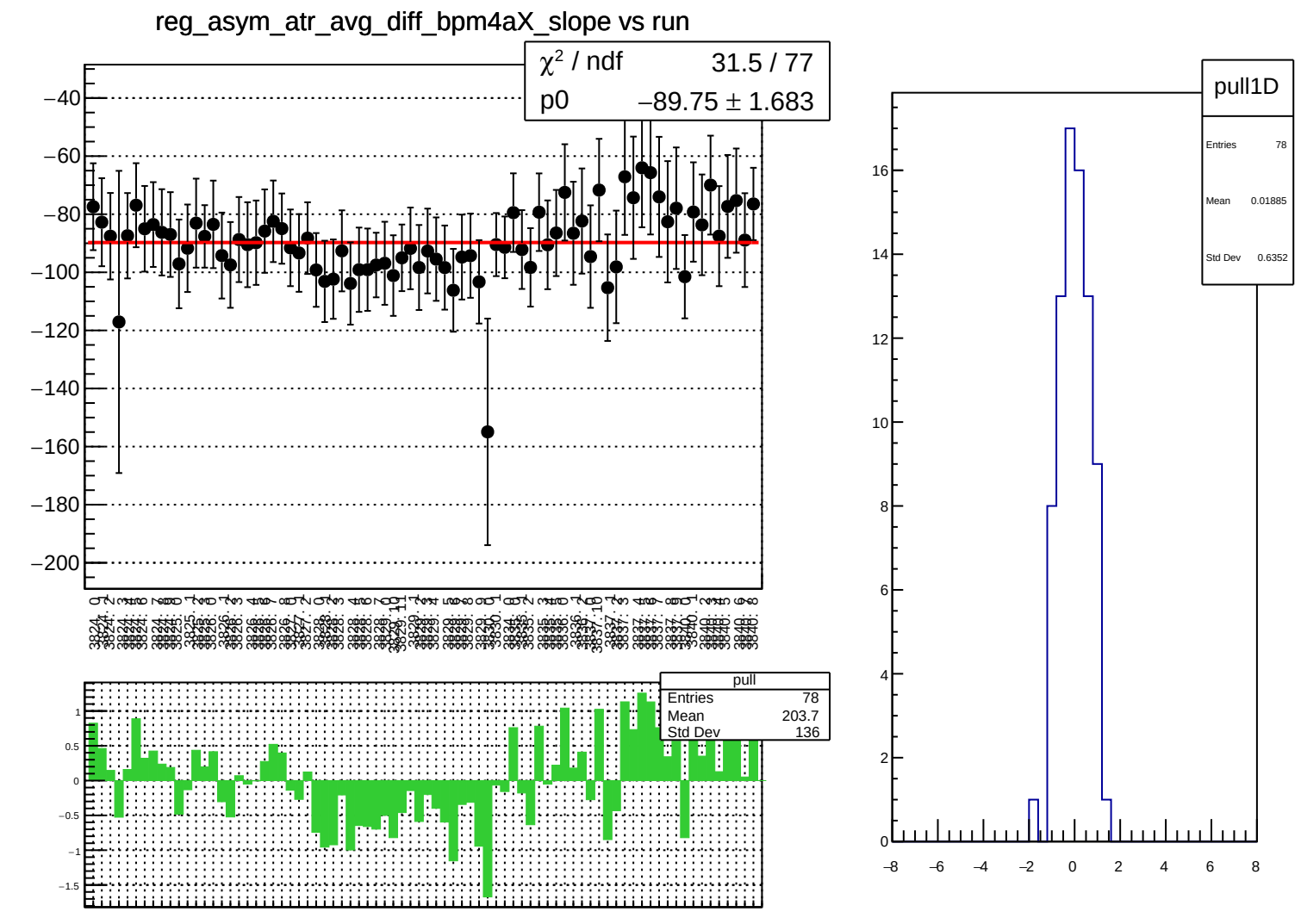

pull1D
Entries 78
Mean 0.05388
Std Dev 0.7451

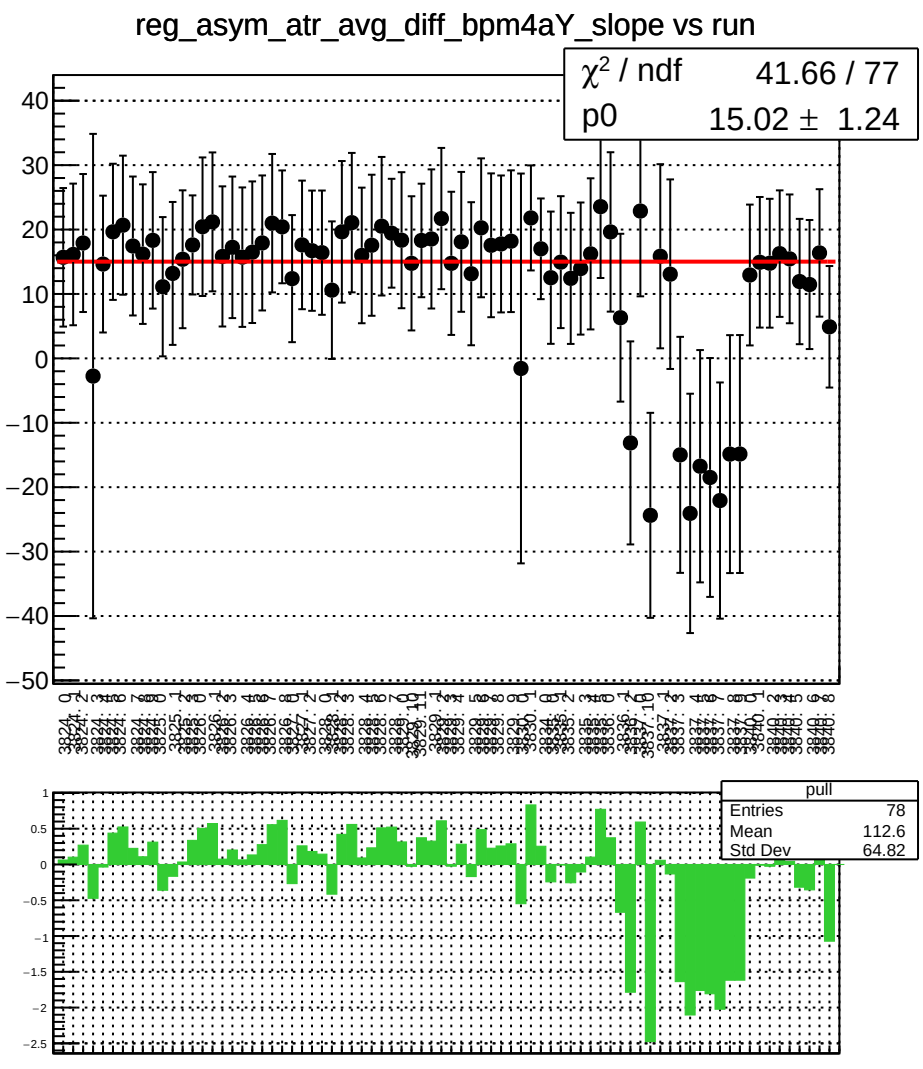

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 41.1 / 77
p0 141.8 ± 0.3014
155
150
145
140
135
pull
Entries 78
Mean 671.8
Std Dev 630.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 78
Mean −0.01672
Std Dev 0.7257
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

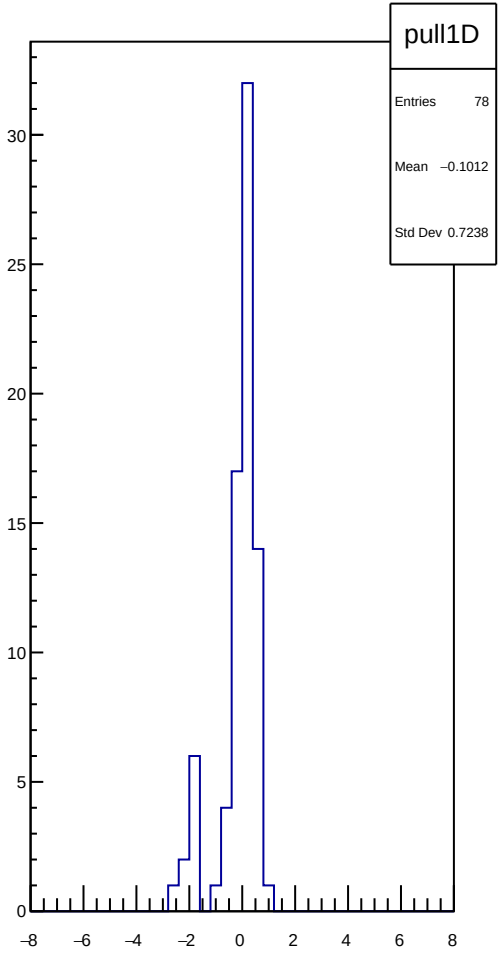

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.934 / 77
p0 −53.77 ± 1.986
pull
Entries 78
Mean 1838
Std Dev 1782

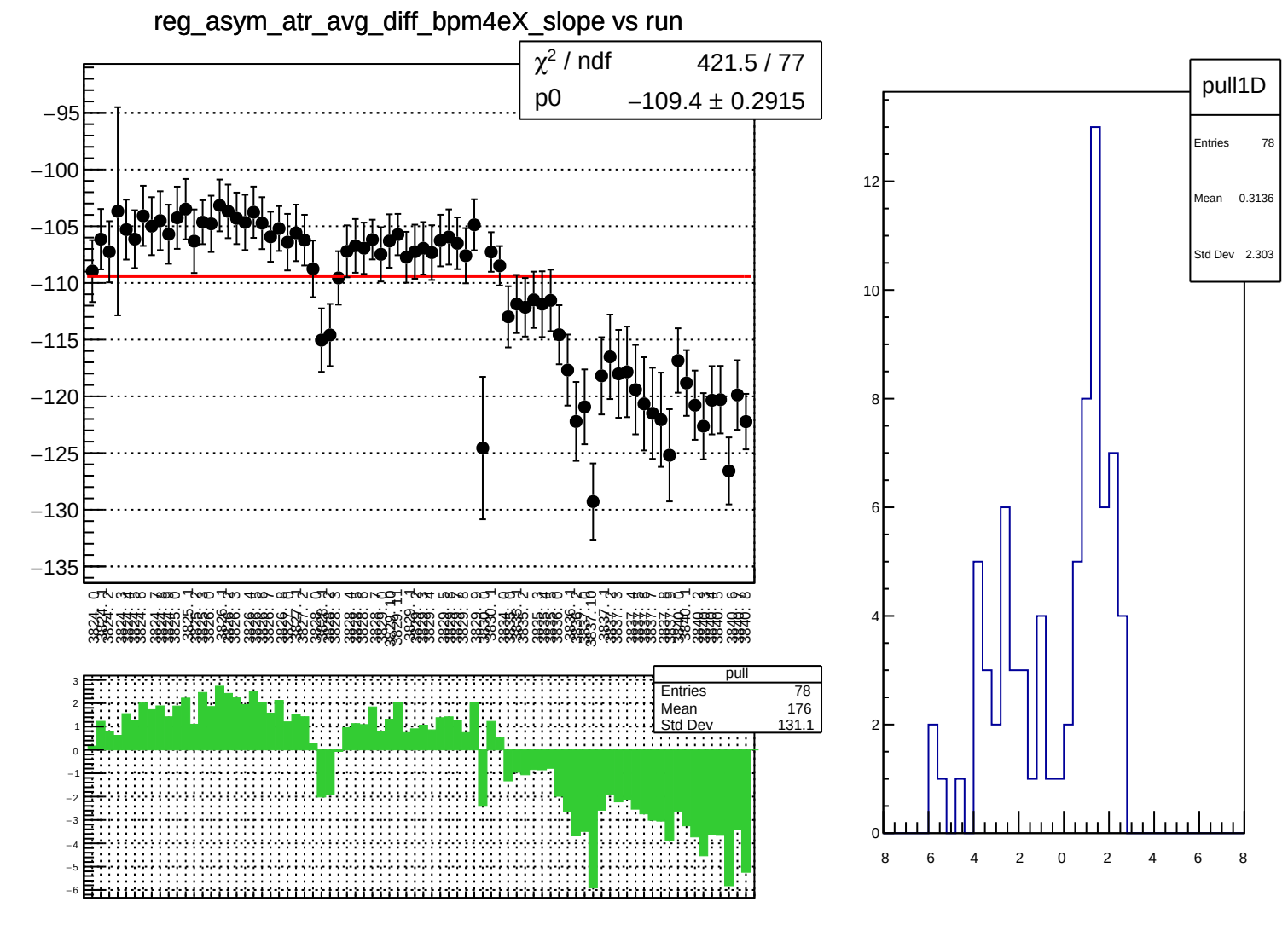

pull1D
Entries 78
Mean −0.001153
Std Dev 0.3569

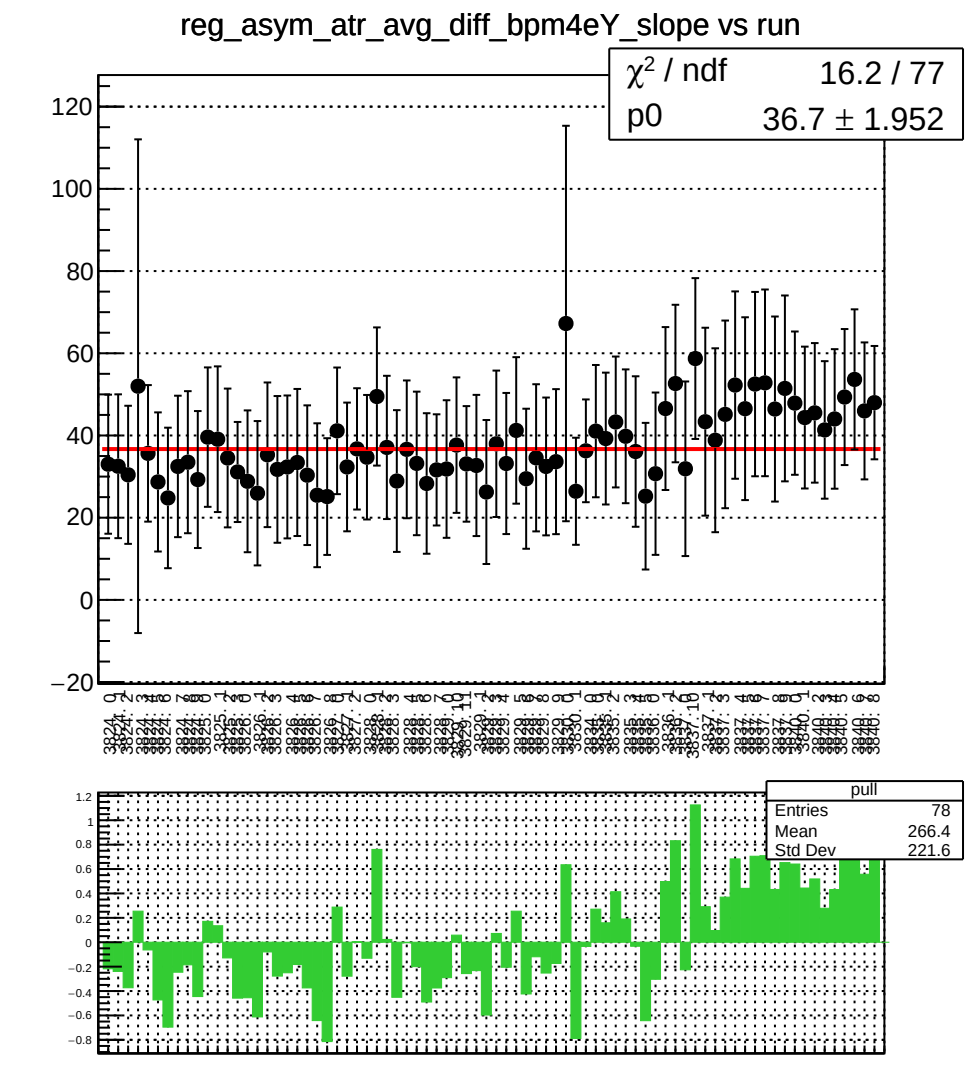

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 320.9 / 77
p0 217.4 ± 0.3702
240
230
220
210
200
190
pull
Entries 78
Mean −601.5
Std Dev 641.6
2
0
−2
−4
−6
−8
−10
pull1D
Entries 78
Mean 0.1772
Std Dev 1.726
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

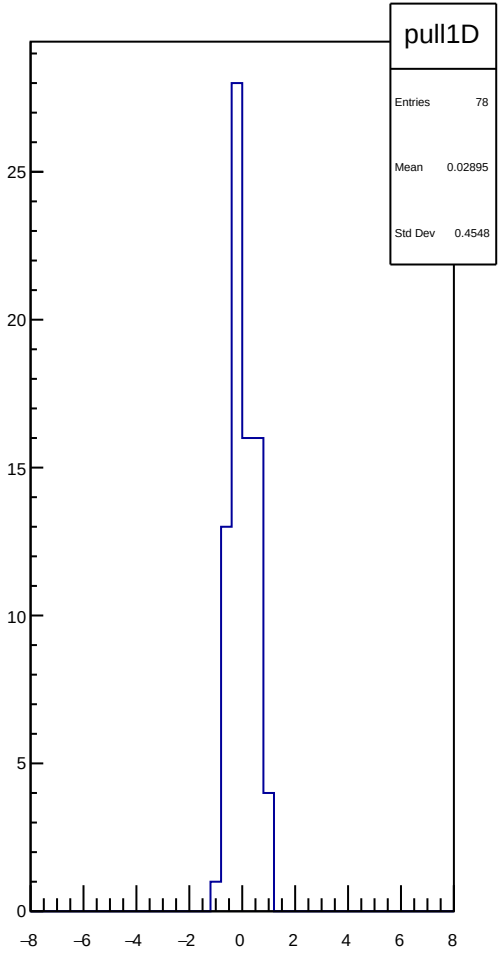

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 31.5 / 77
p0 −89.75 ± 1.683
pull
Entries 78
Mean 203.7
Std Dev 136
pull1D
Entries 78
Mean 0.01885
Std Dev 0.6352

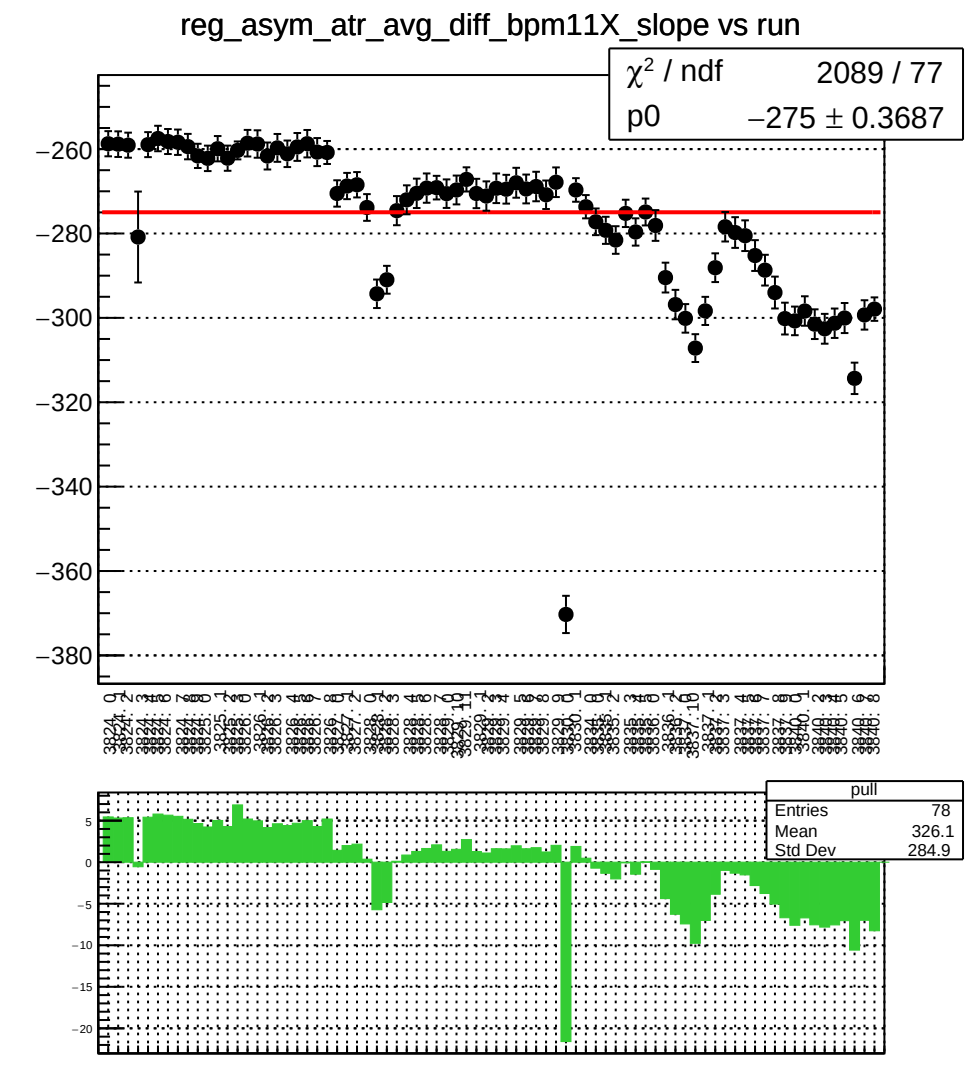

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 41.66 / 77
p0 15.02 ± 1.24
pull
Entries 78
Mean 112.6
Std Dev 64.82

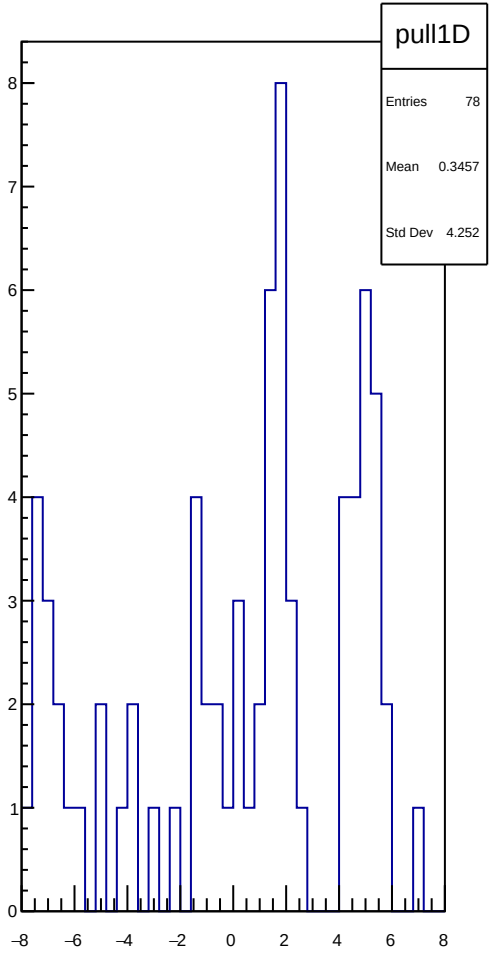

pull1D
Entries 78
Mean −0.1012
Std Dev 0.7238

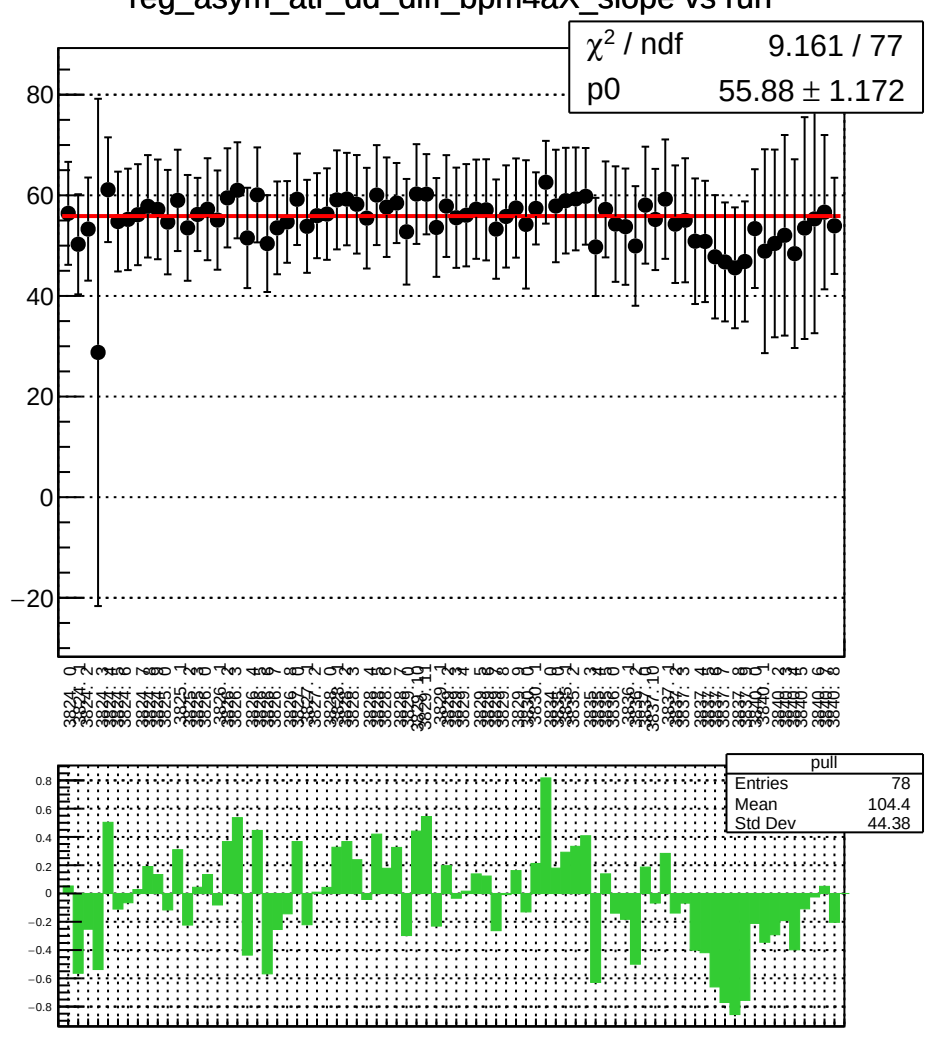

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 421.5 / 77
p0 −109.4 ± 0.2915
pull
Entries 78
Mean 176
Std Dev 131.1
pull1D
Entries 78
Mean −0.3136
Std Dev 2.303

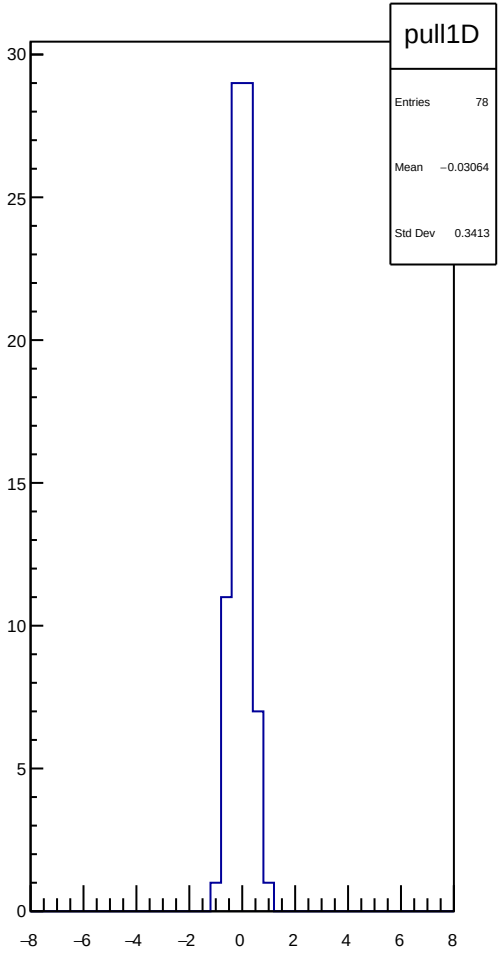

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.2 / 77
p0 36.7 ± 1.952
pull
Entries 78
Mean 266.4
Std Dev 221.6

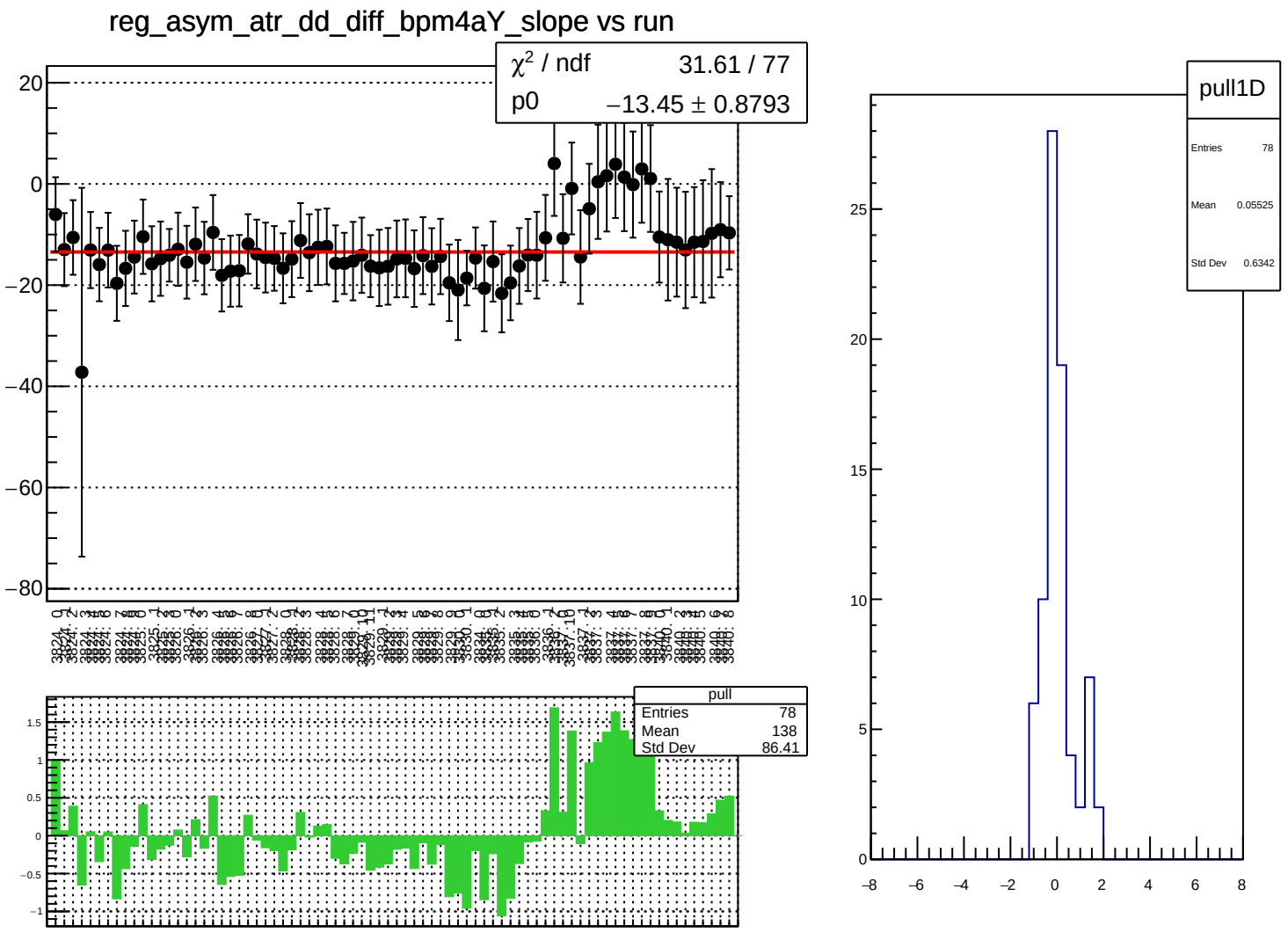

pull1D
Entries 78
Mean 0.02895
Std Dev 0.4548

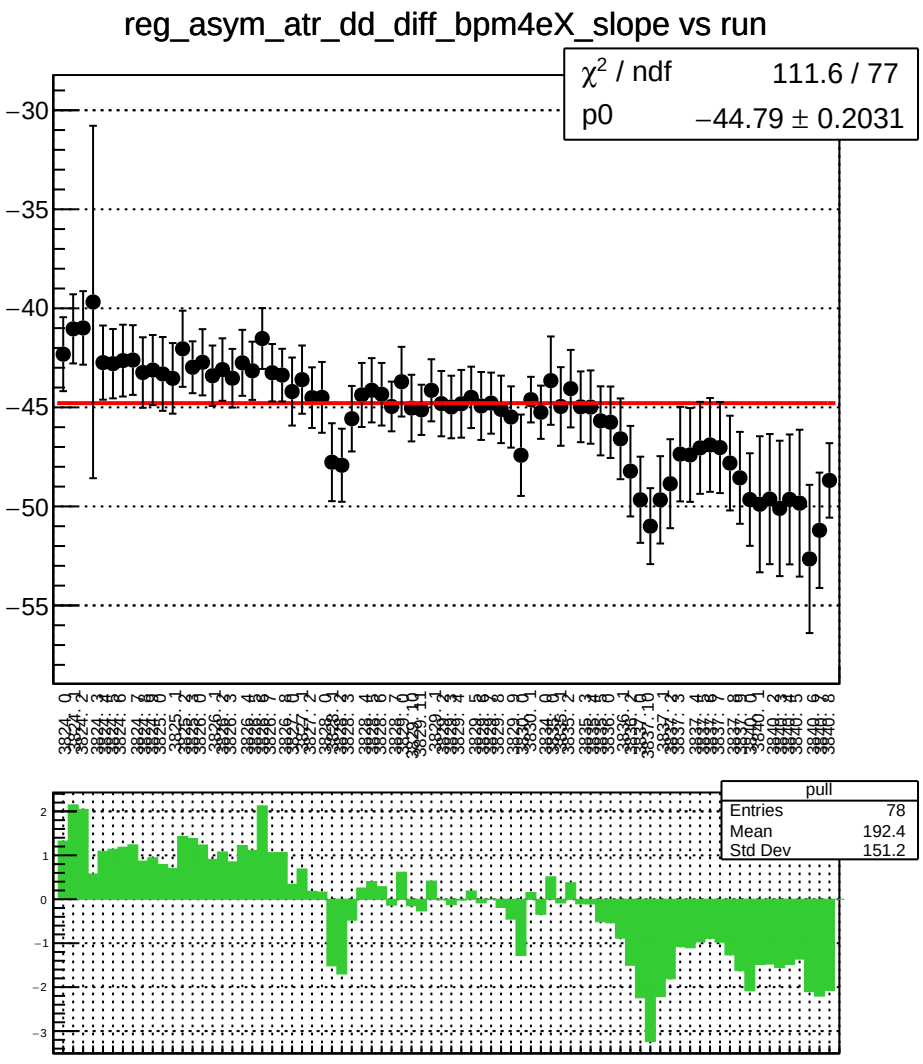

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 2089 / 77
p0 −275 ± 0.3687
pull
Entries 78
Mean 326.1
Std Dev 284.9

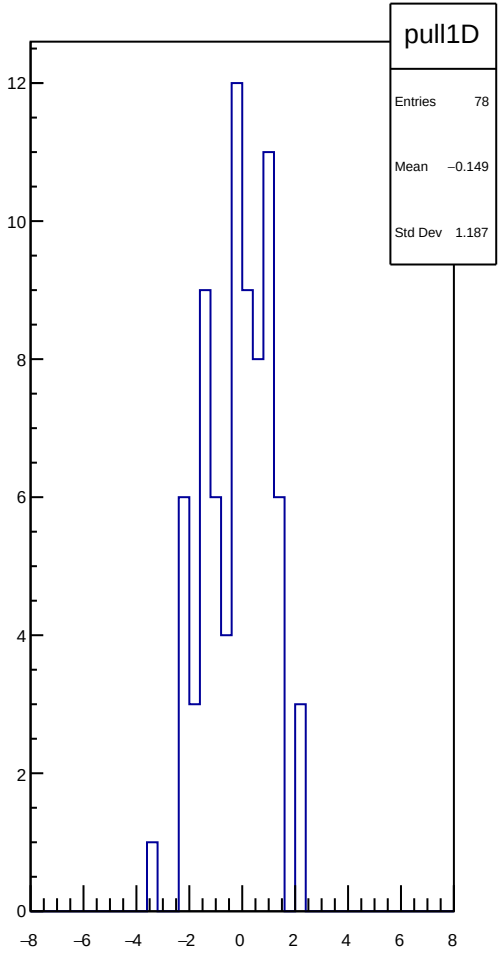

pull1D
Entries 78
Mean 0.3457
Std Dev 4.252

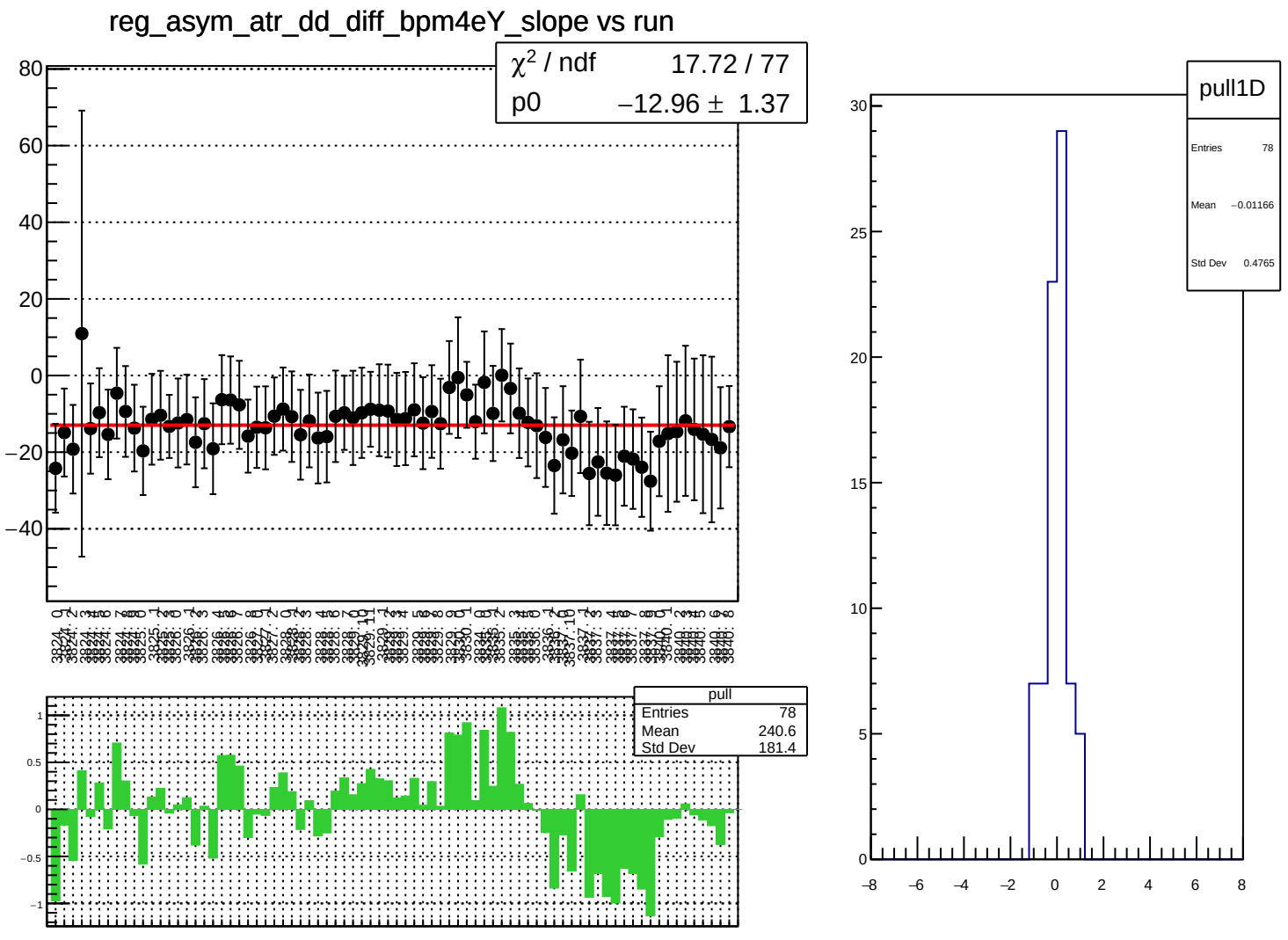

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 9.161 / 77
p0 55.88 ± 1.172
pull
Entries 78
Mean 104.4
Std Dev 44.38

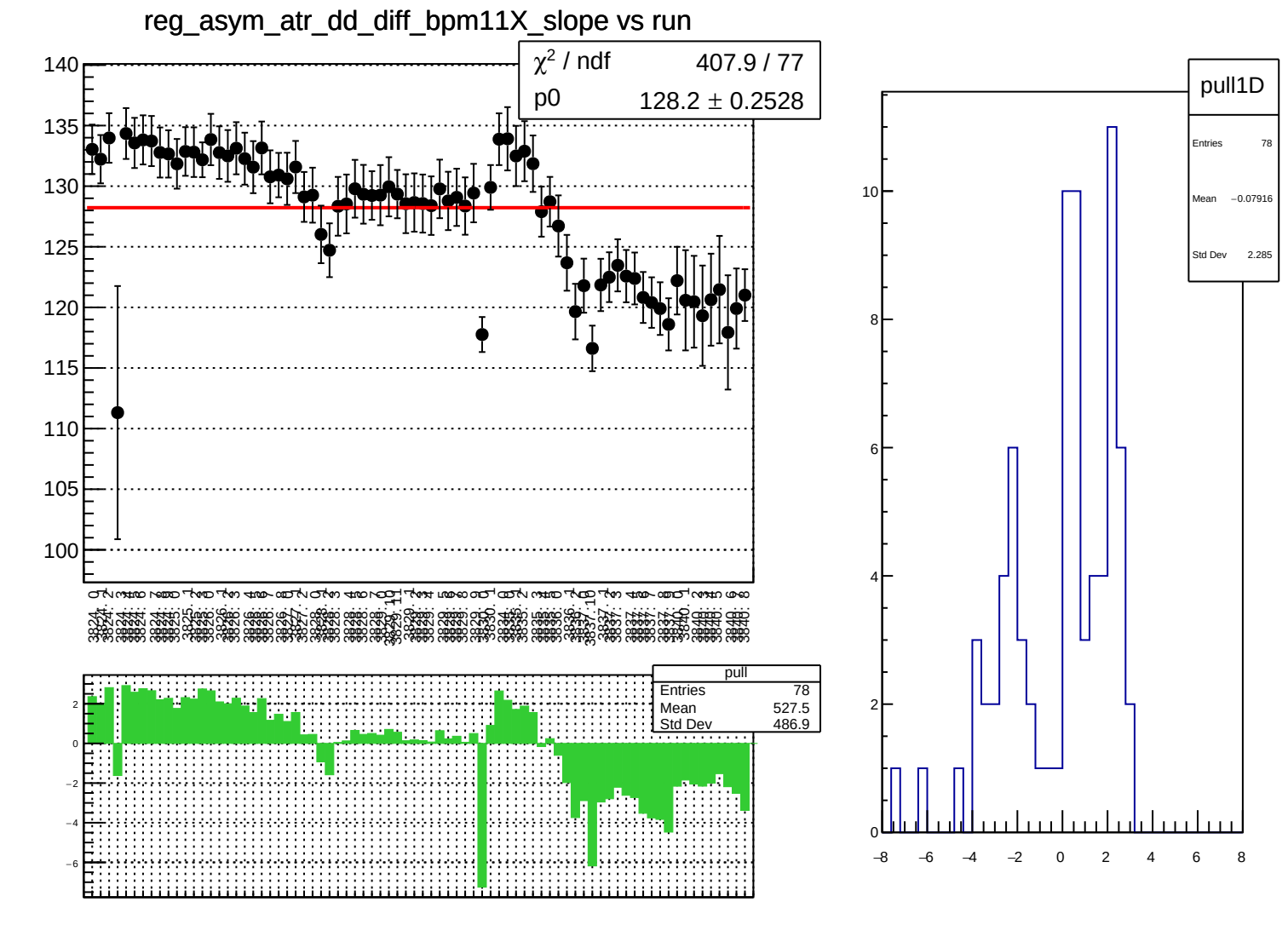

pull1D
Entries 78
Mean −0.03064
Std Dev 0.3413

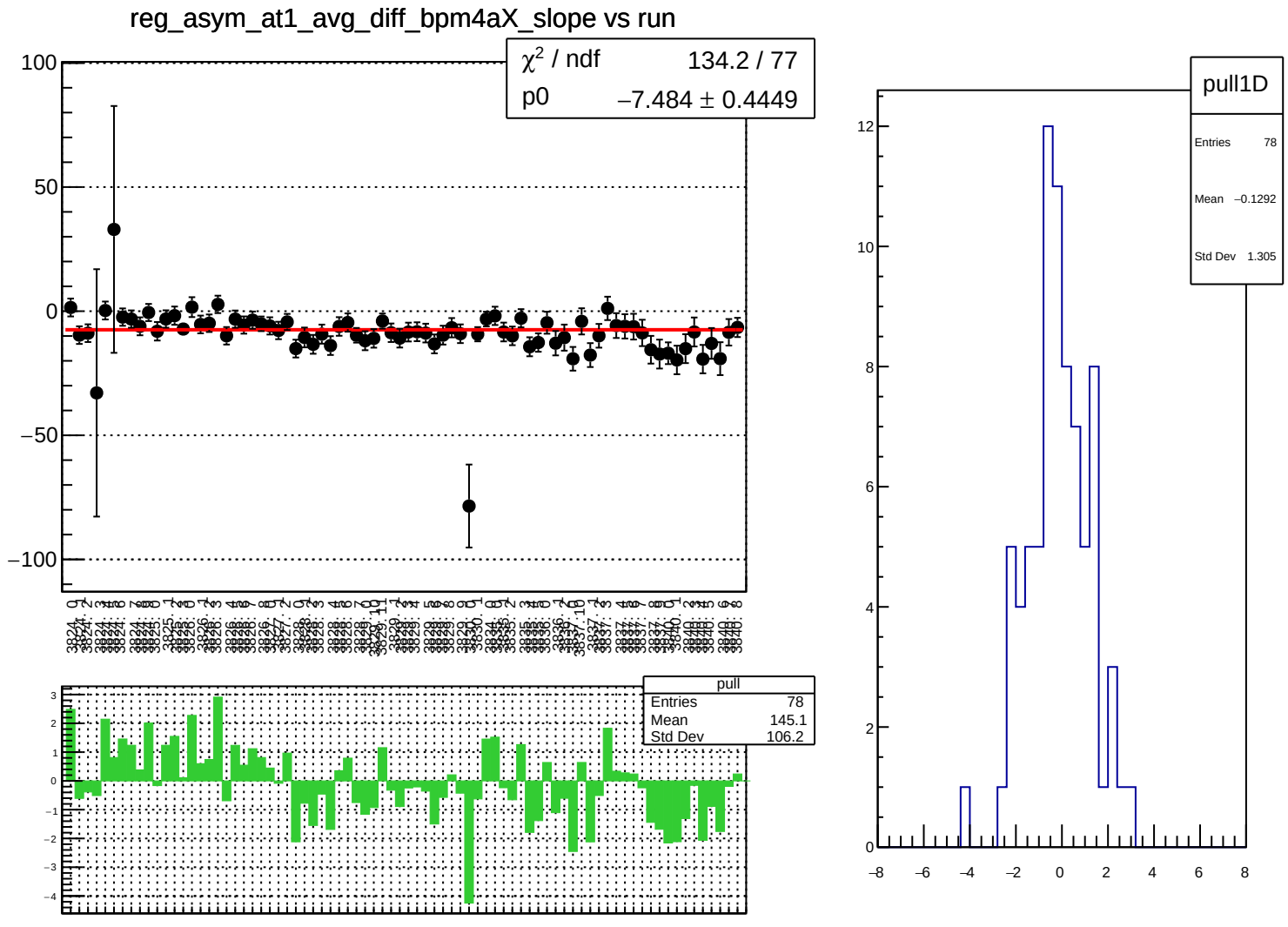

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.61 / 77
p0 −13.45 ± 0.8793
pull
Entries 78
Mean 138
Std Dev 86.41
pull1D
Entries 78
Mean 0.05525
Std Dev 0.6342

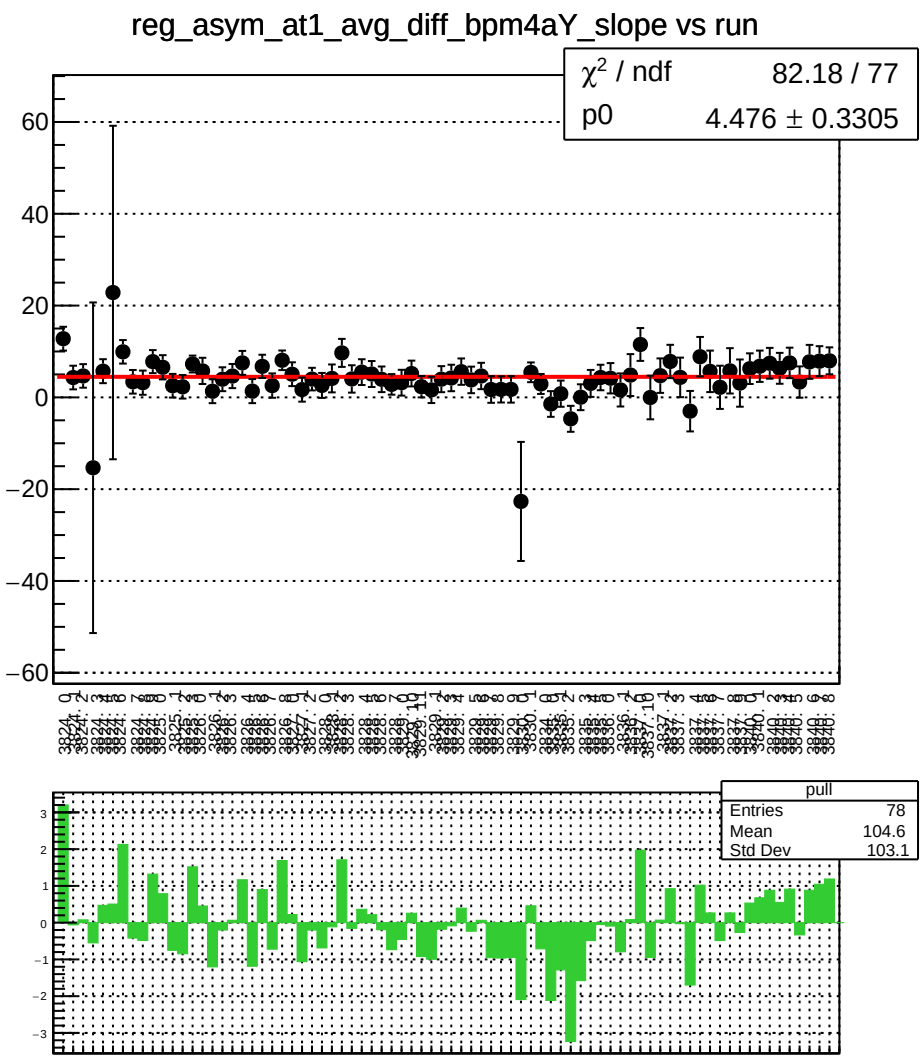

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 111.6 / 77
p0 −44.79 ± 0.2031
pull
Entries 78
Mean 192.4
Std Dev 151.2

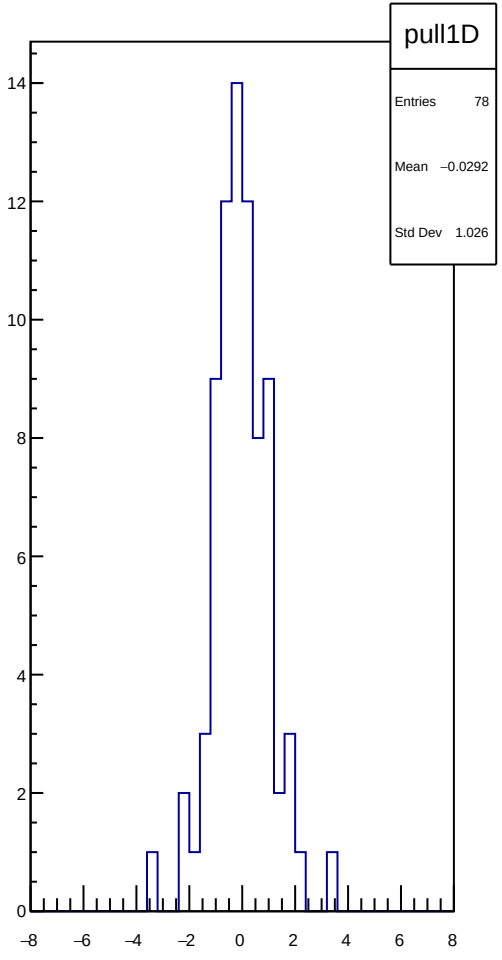

pull1D
Entries 78
Mean −0.149
Std Dev 1.187

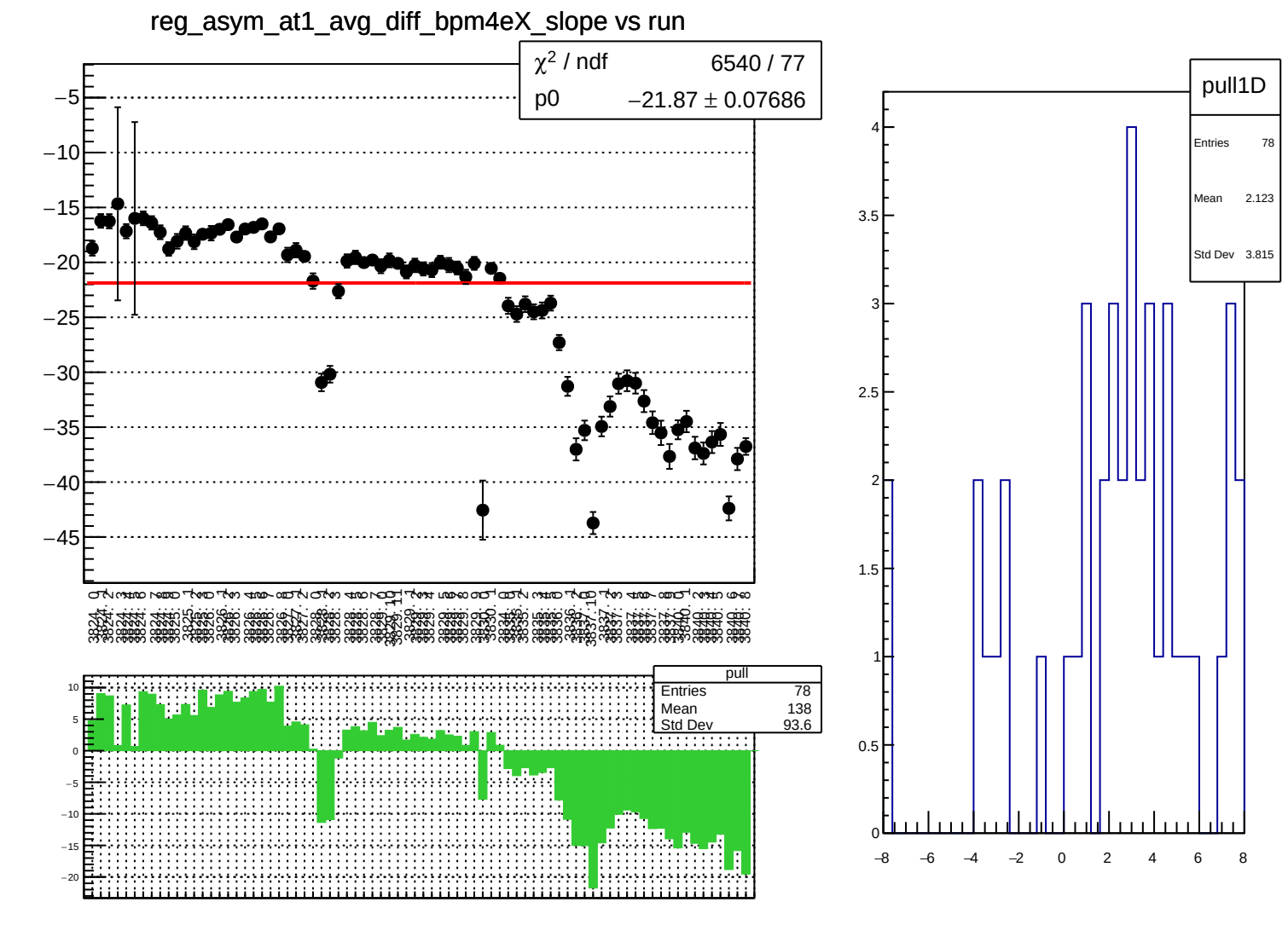

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.72 / 77
p0 −12.96 ± 1.37
pull
Entries 78
Mean 240.6
Std Dev 181.4
pull1D
Entries 78
Mean −0.01166
Std Dev 0.4765

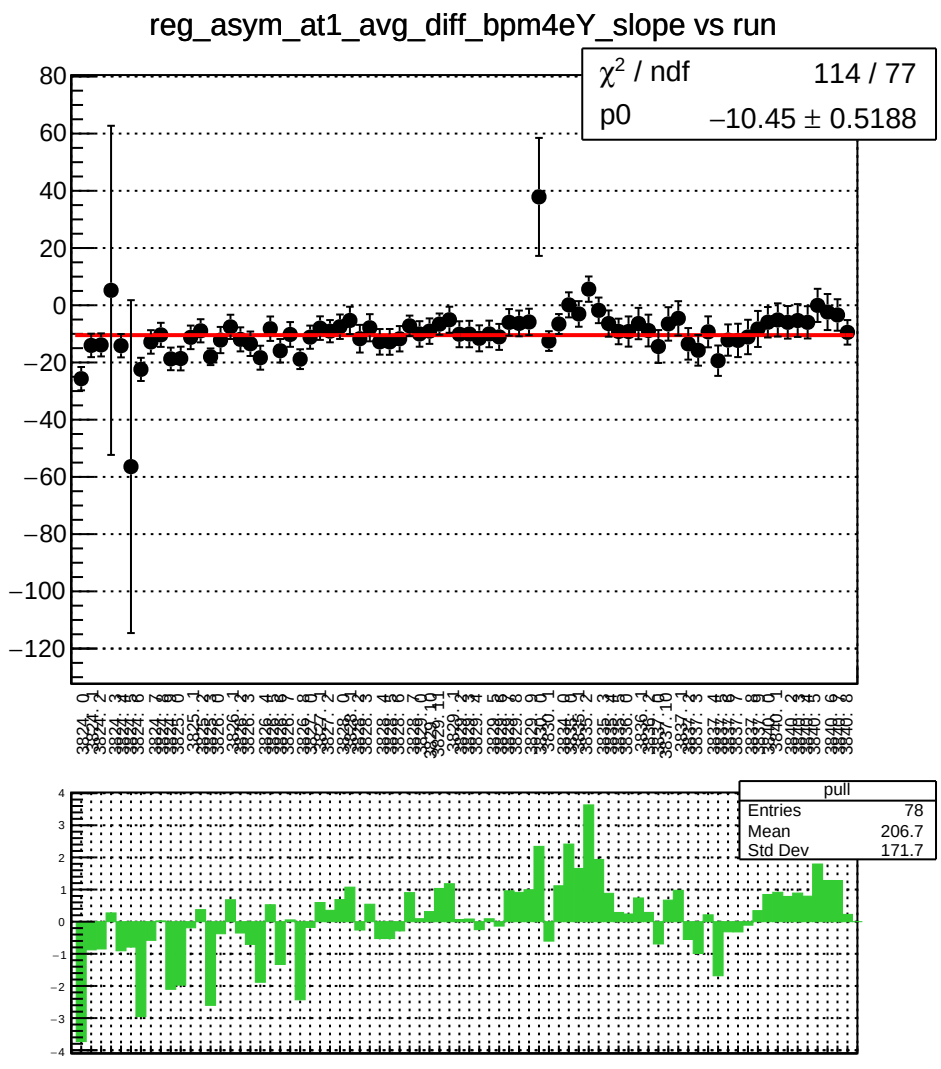

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 407.9 / 77
p0 128.2 ± 0.2528
pull
Entries 78
Mean 527.5
Std Dev 486.9
pull1D
Entries 78
Mean −0.07916
Std Dev 2.285

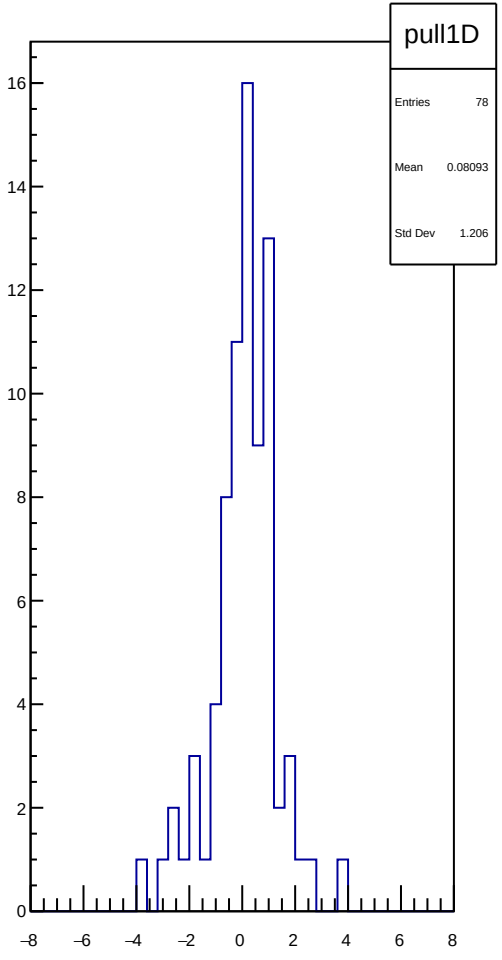

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 134.2 / 77
p0 −7.484 ± 0.4449
pull
Entries 78
Mean 145.1
Std Dev 106.2
pull1D
Entries 78
Mean −0.1292
Std Dev 1.305

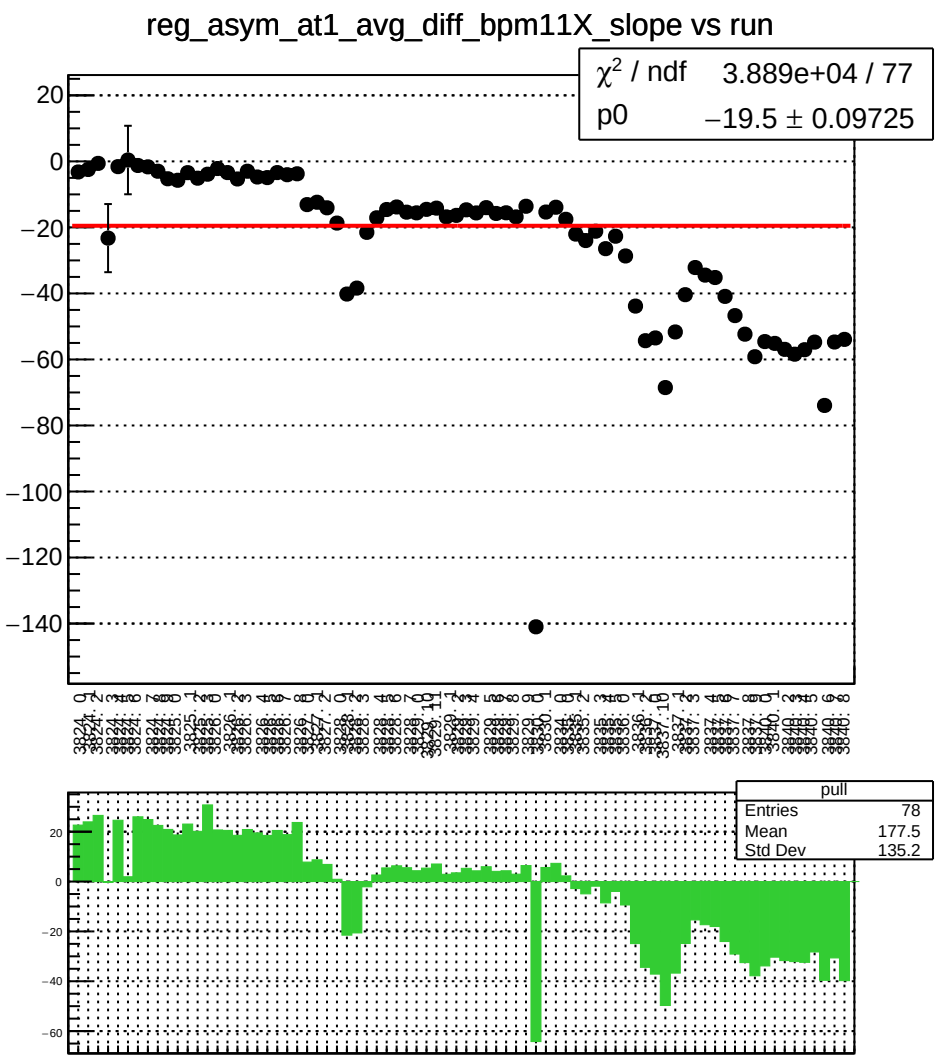

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 82.18 / 77
p0 4.476 ± 0.3305
pull
Entries 78
Mean 104.6
Std Dev 103.1

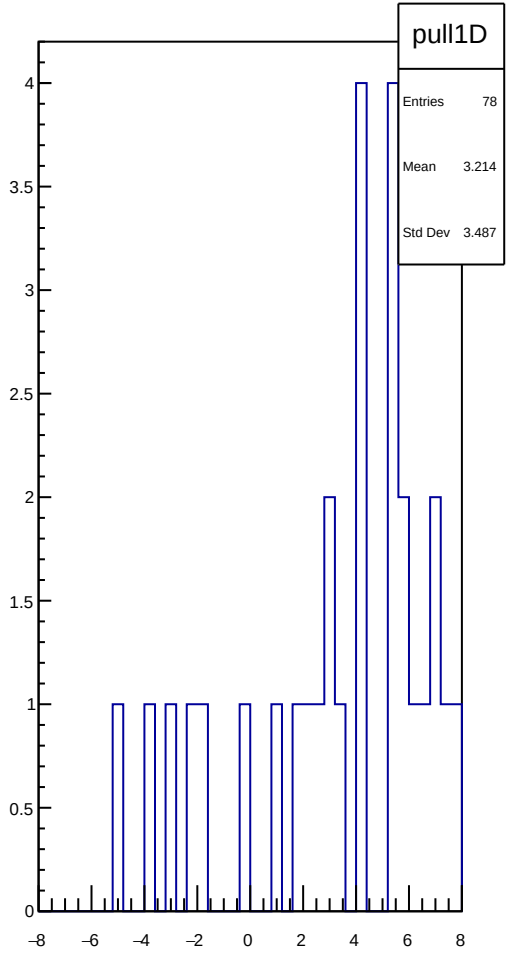

pull1D
Entries 78
Mean −0.0292
Std Dev 1.026

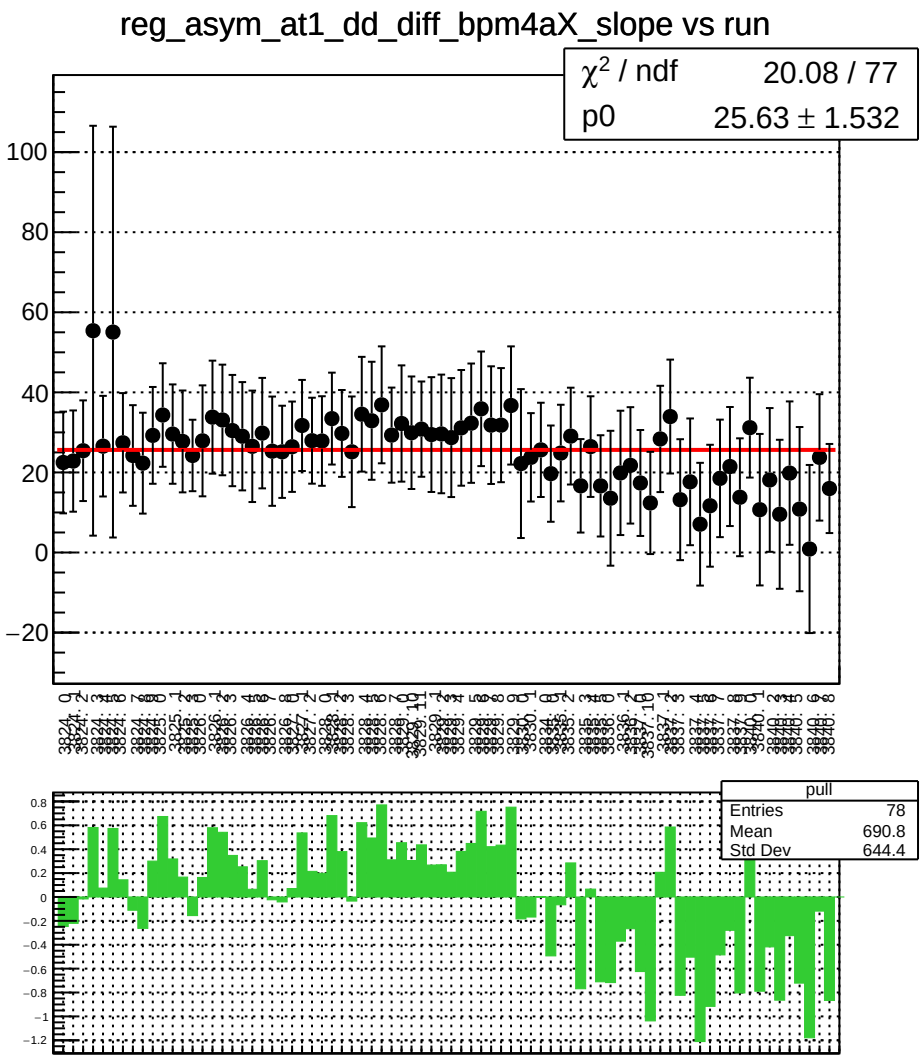

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 6540 / 77
p0 −21.87 ± 0.07686
pull
Entries 78
Mean 138
Std Dev 93.6
pull1D
Entries 78
Mean 2.123
Std Dev 3.815

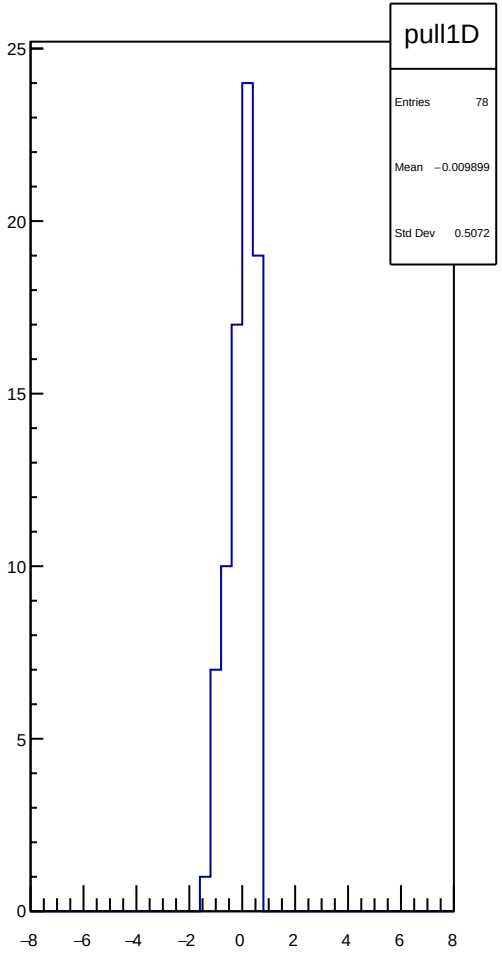

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 114 / 77
p0 −10.45 ± 0.5188
pull
Entries 78
Mean 206.7
Std Dev 171.7

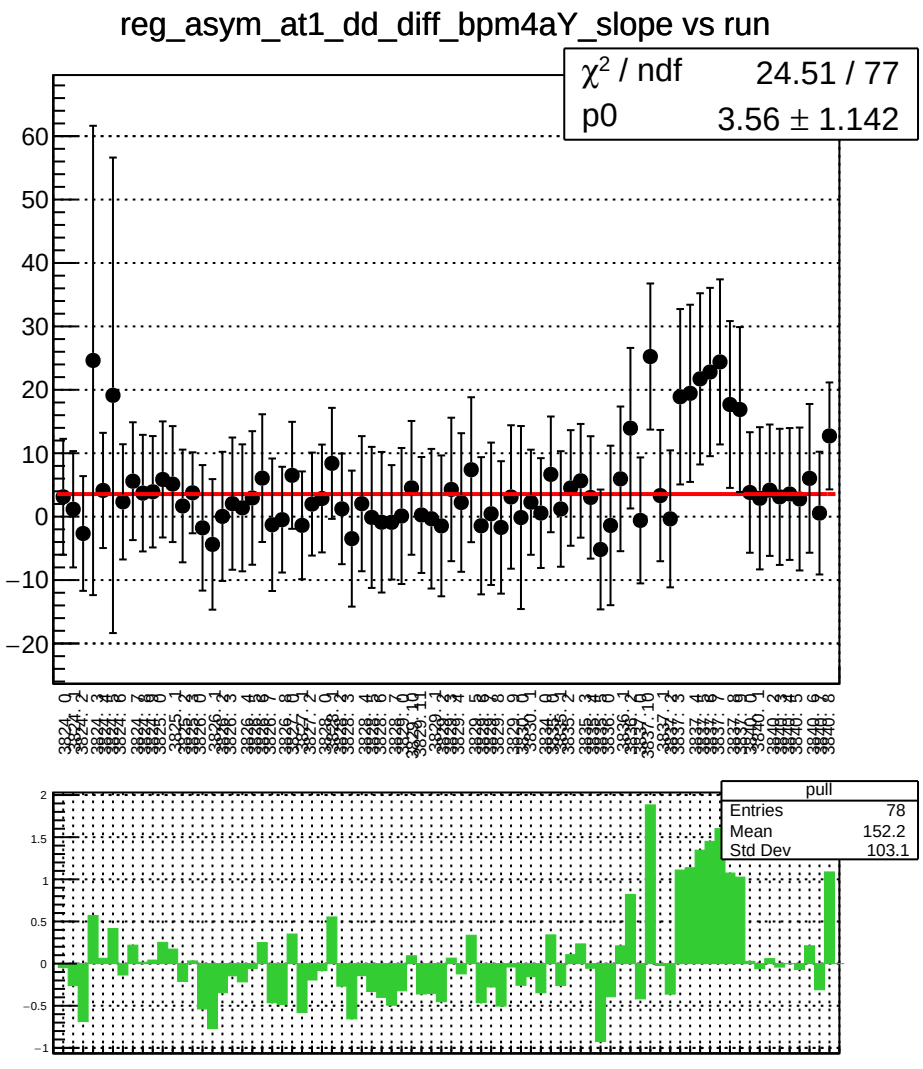

pull1D
Entries 78
Mean 0.08093
Std Dev 1.206

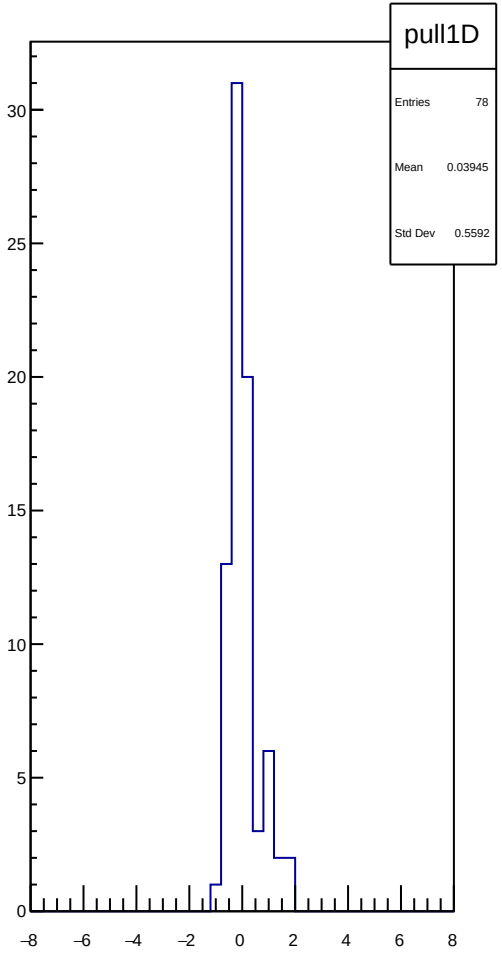

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 3.889e+04 / 77
p0 −19.5 ± 0.09725
pull
Entries 78
Mean 177.5
Std Dev 135.2

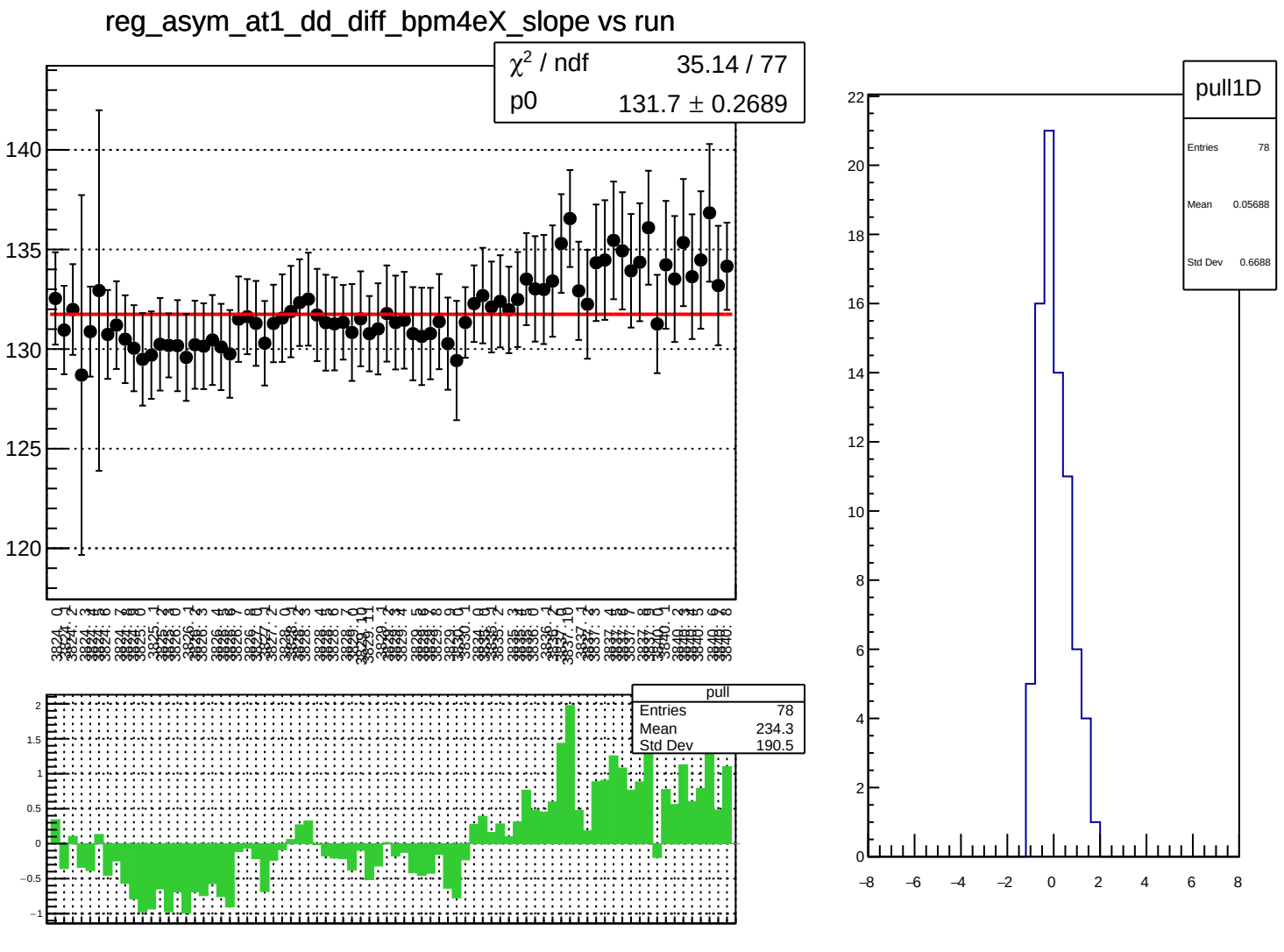

pull1D
Entries 78
Mean 3.214
Std Dev 3.487

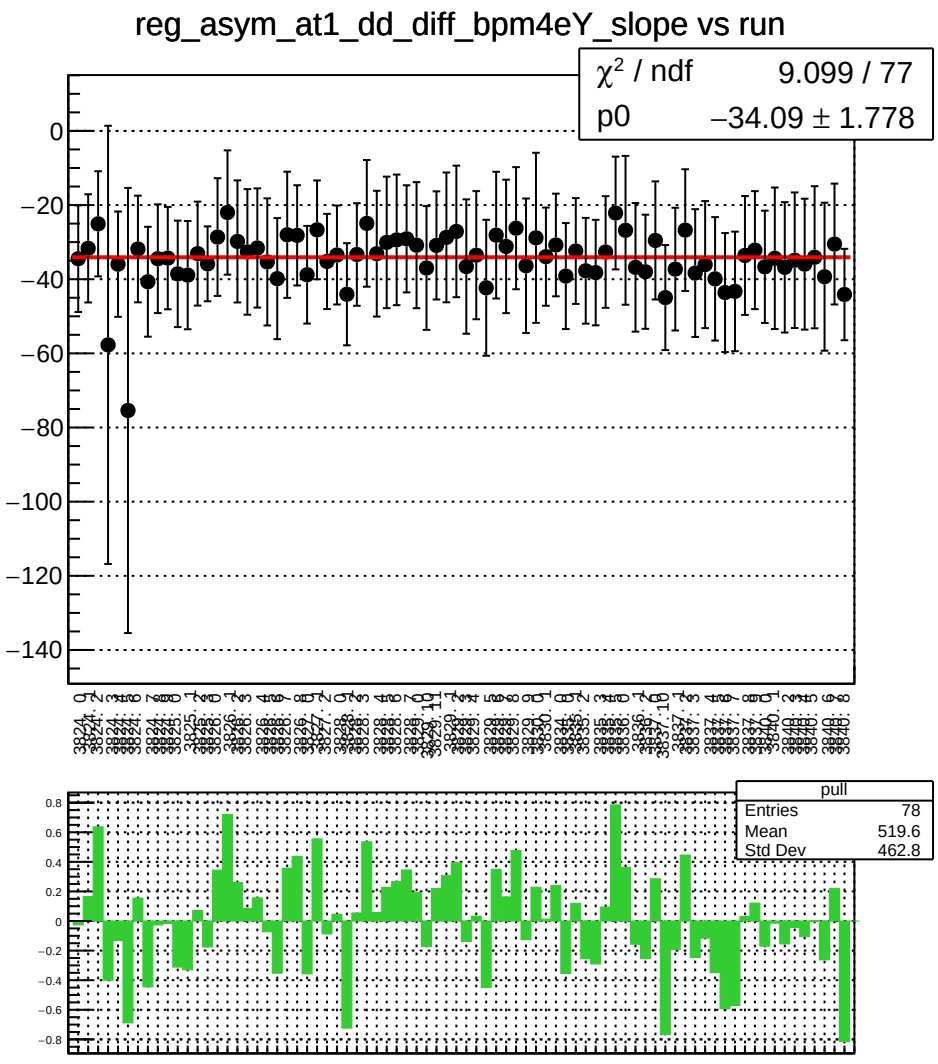

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 20.08 / 77
p0 25.63 ± 1.532
pull
Entries 78
Mean 690.8
Std Dev 644.4

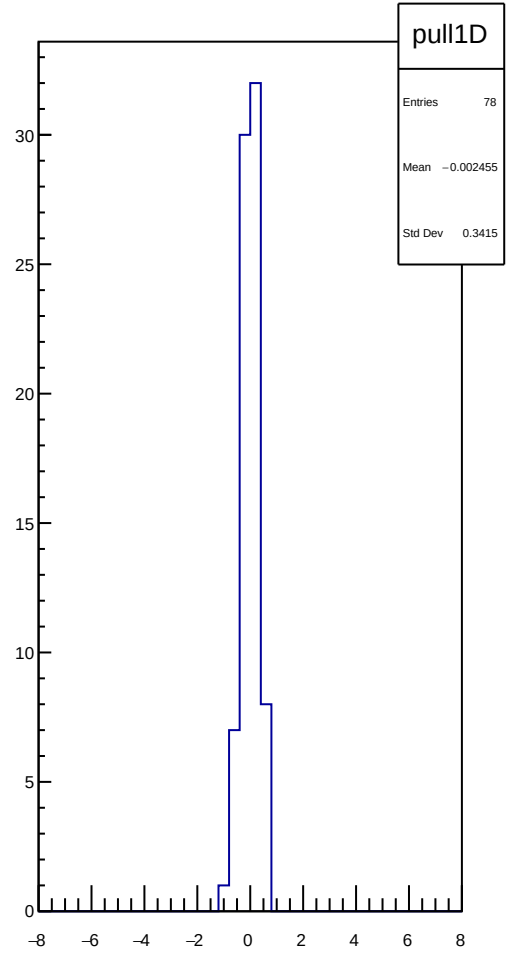

pull1D
Entries 78
Mean −0.009899
Std Dev 0.5072

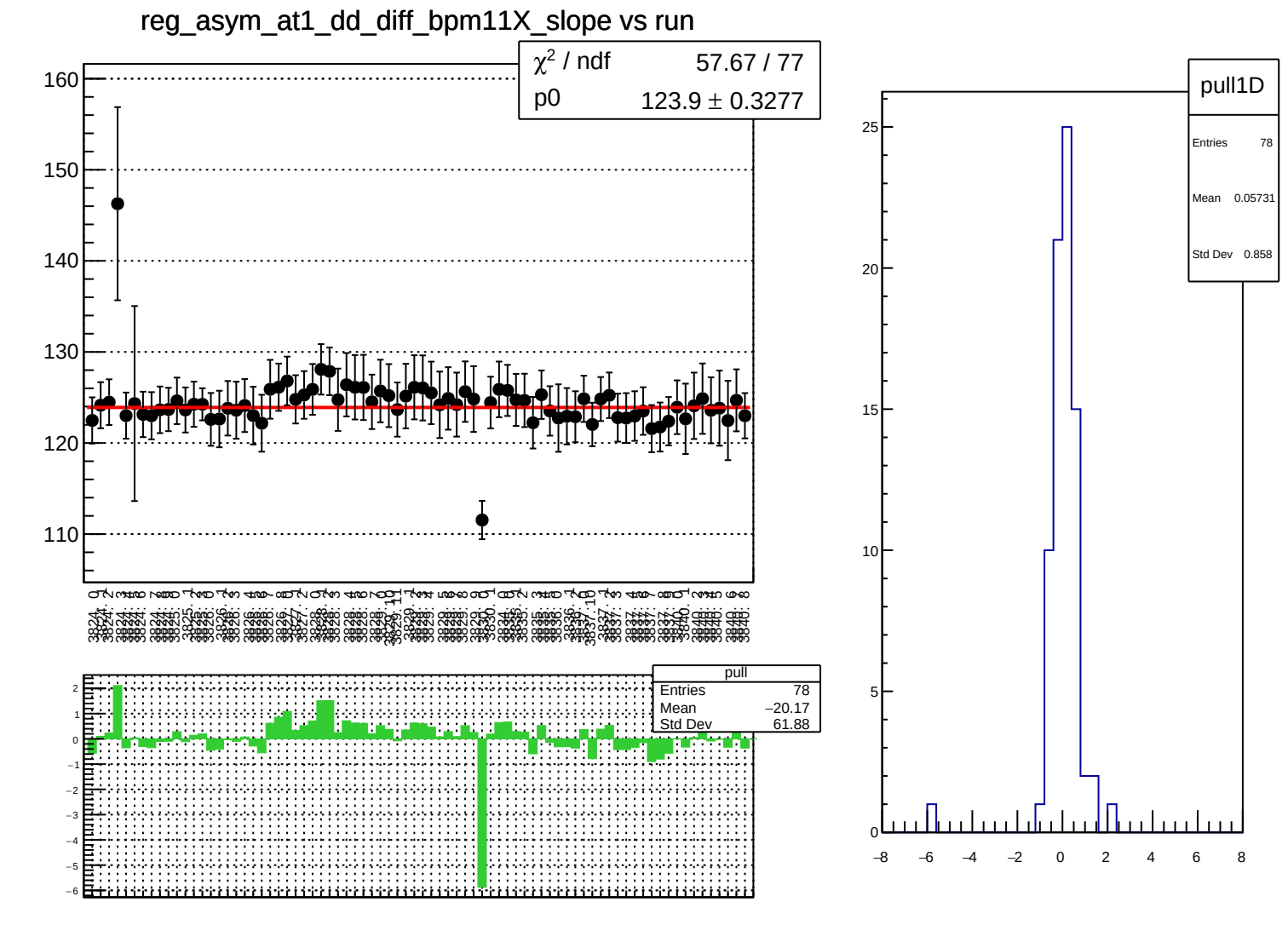

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.51 / 77
p0 3.56 ± 1.142
pull
Entries 78
Mean 152.2
Std Dev 103.1

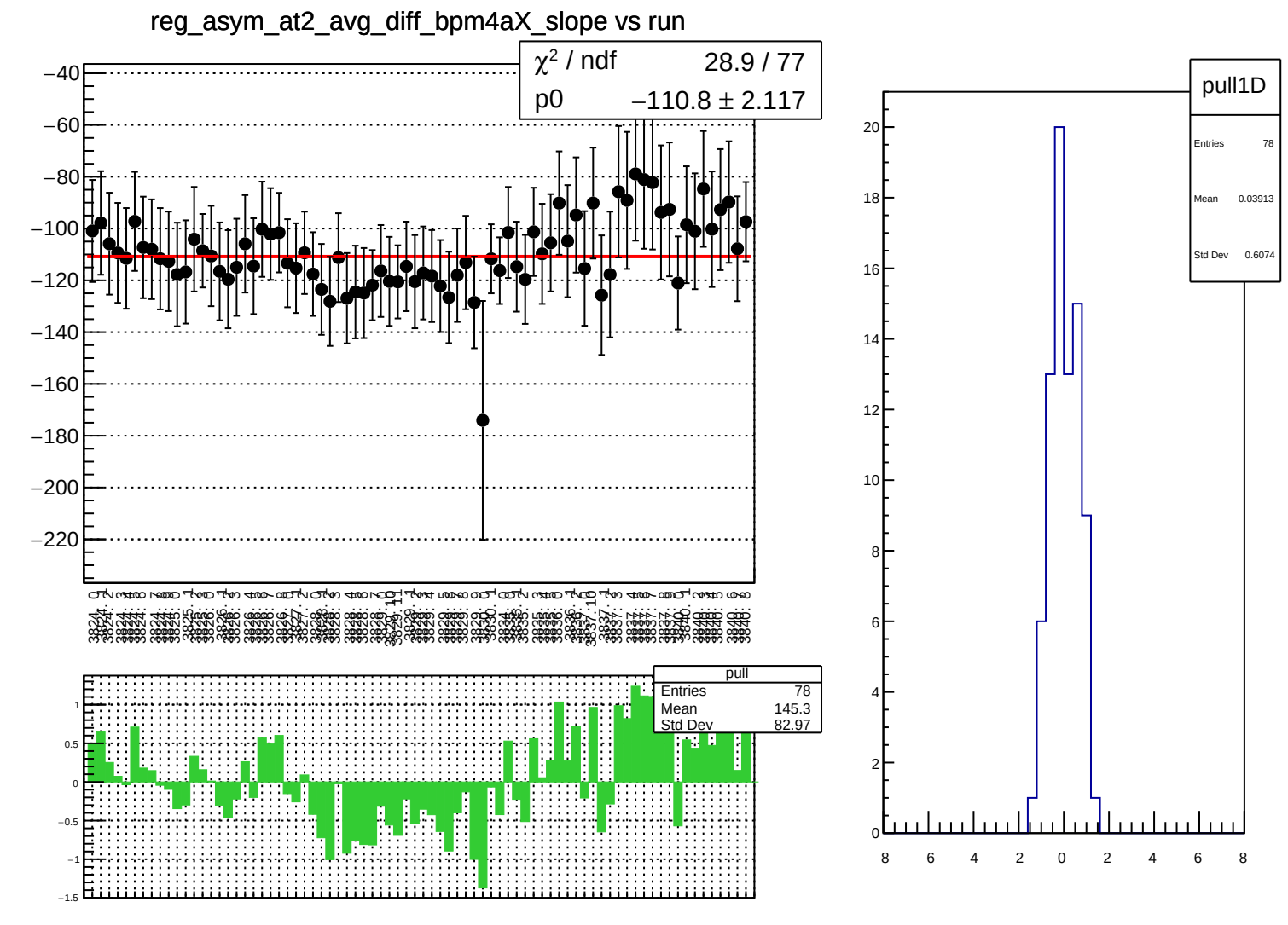

pull1D
Entries 78
Mean 0.03945
Std Dev 0.5592

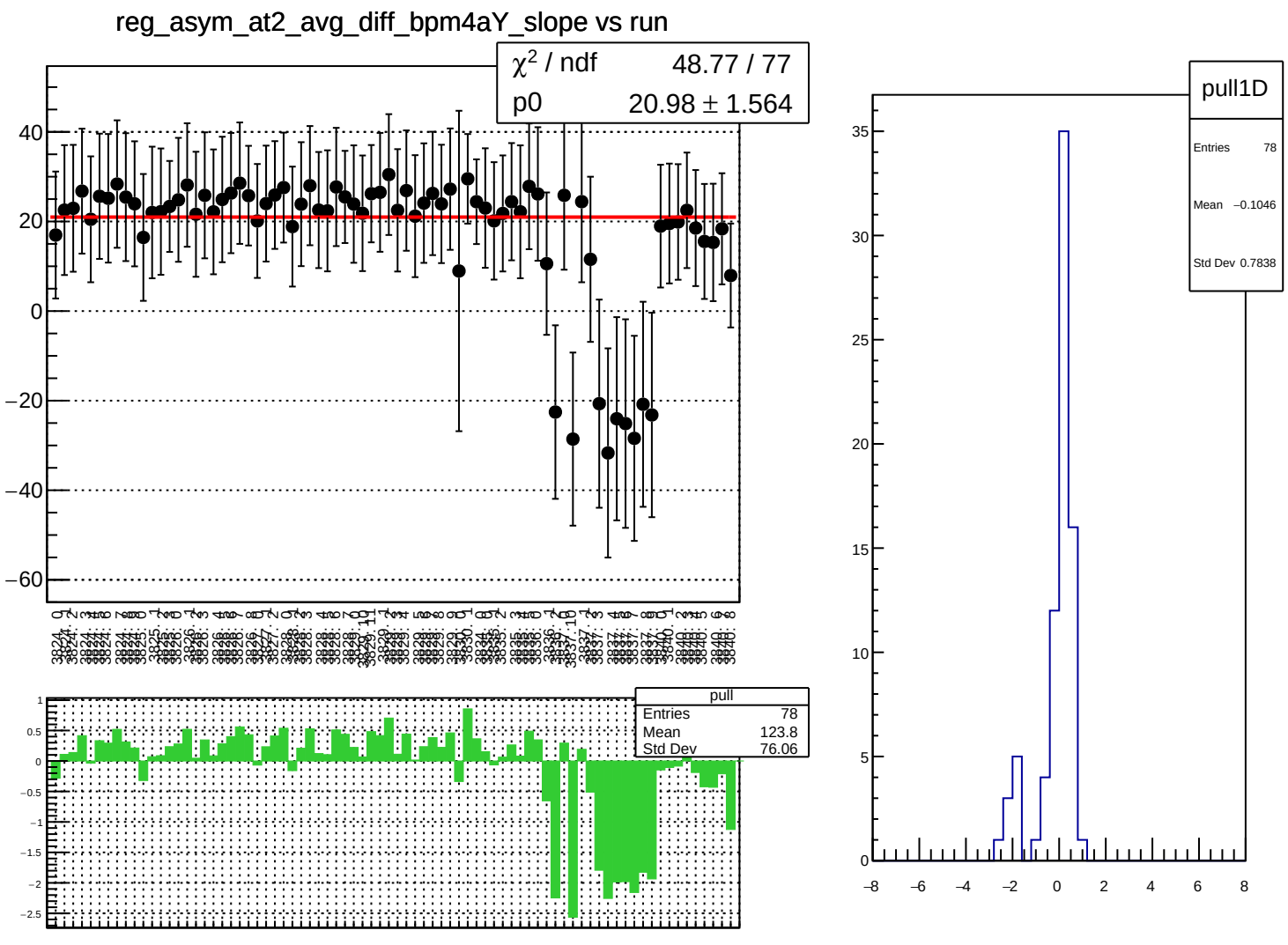

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.14 / 77
p0 131.7 ± 0.2689
140
135
130
125
120
pull
Entries 78
Mean 234.3
Std Dev 190.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 78
Mean 0.05688
Std Dev 0.6688
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

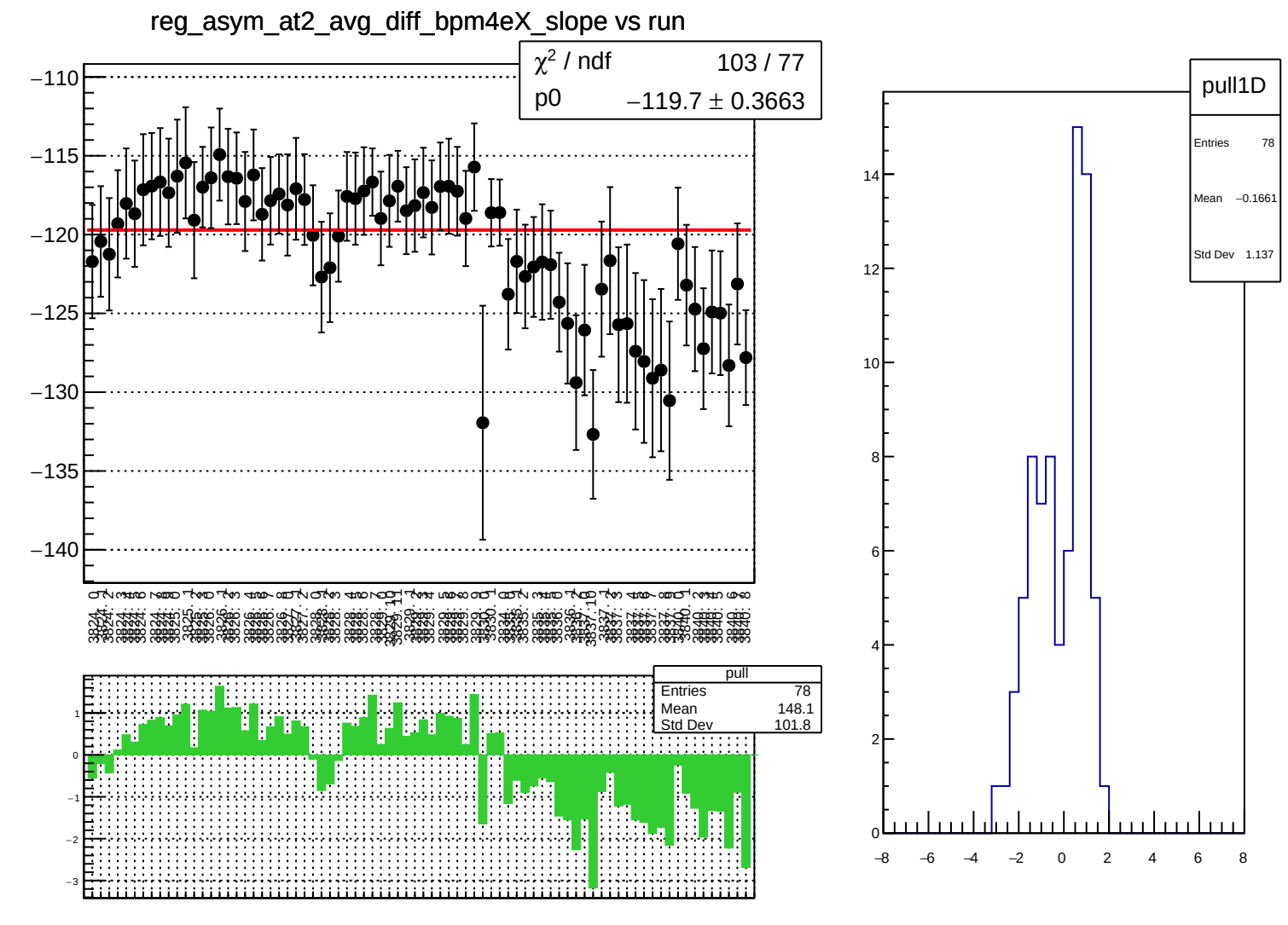

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.099 / 77
p0 −34.09 ± 1.778
pull
Entries 78
Mean 519.6
Std Dev 462.8

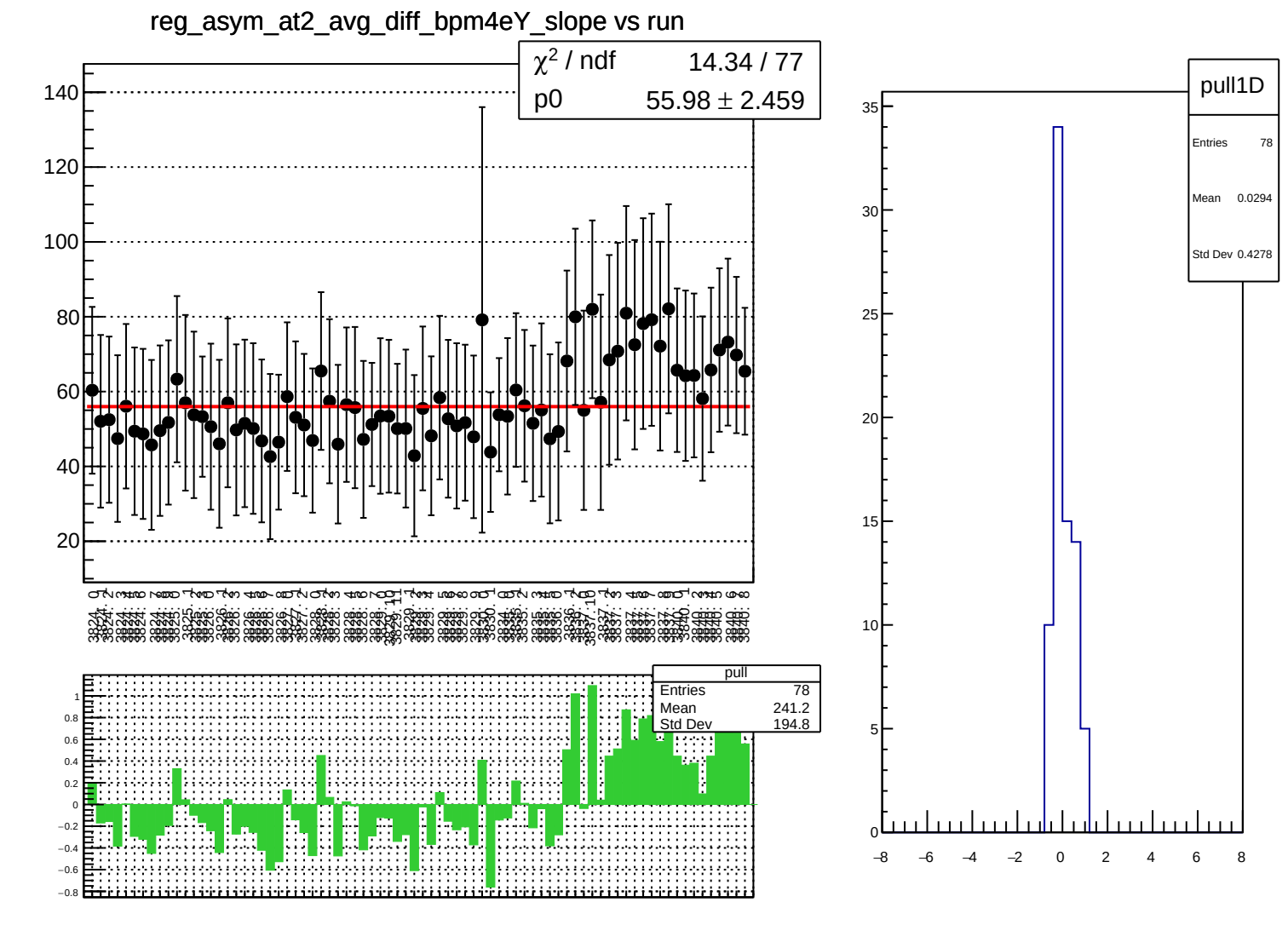

pull1D
Entries 78
Mean −0.002455
Std Dev 0.3415

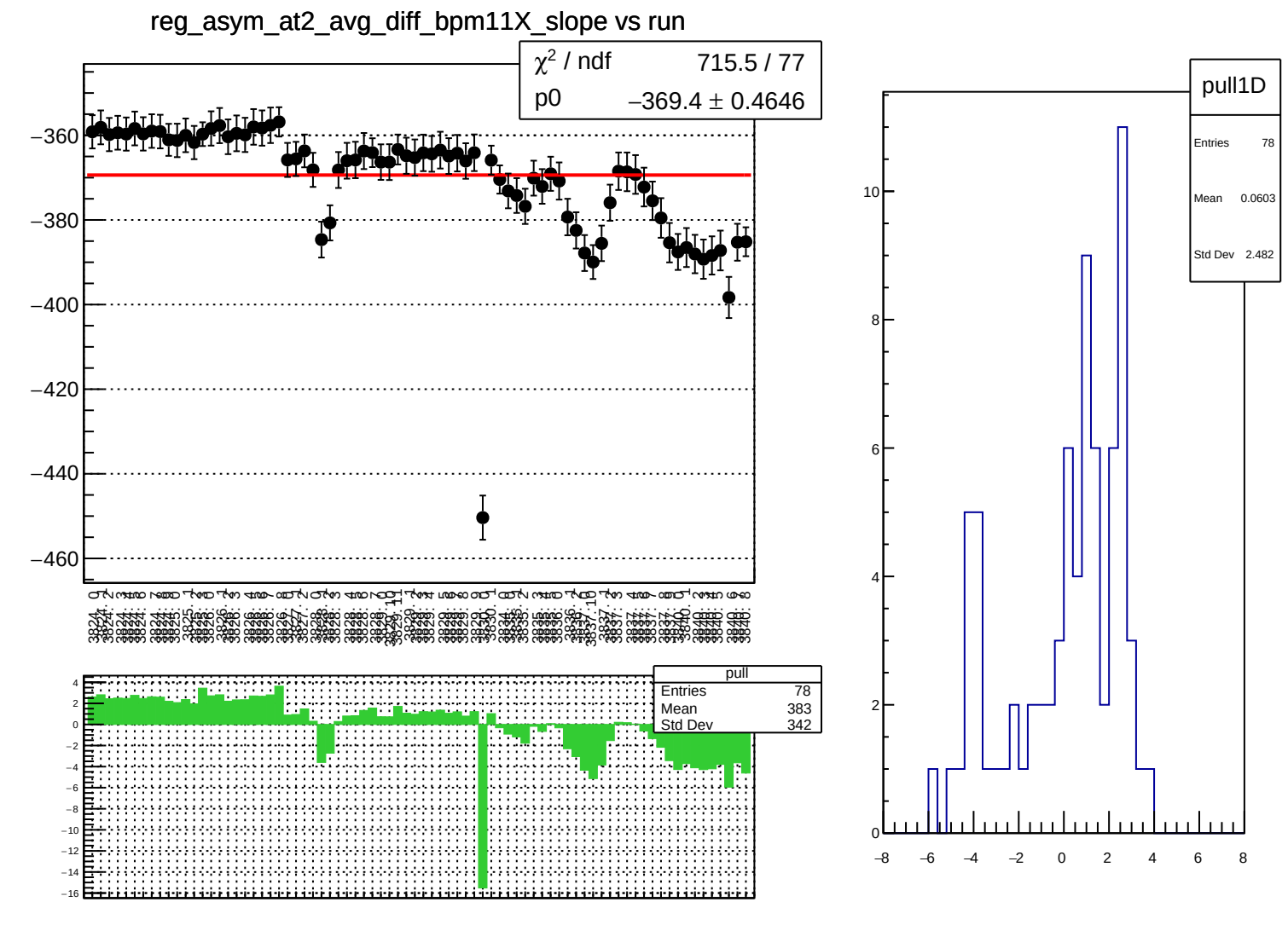

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 57.67 / 77
p0 123.9 ± 0.3277
pull
Entries 78
Mean −20.17
Std Dev 61.88
pull1D
Entries 78
Mean 0.05731
Std Dev 0.858

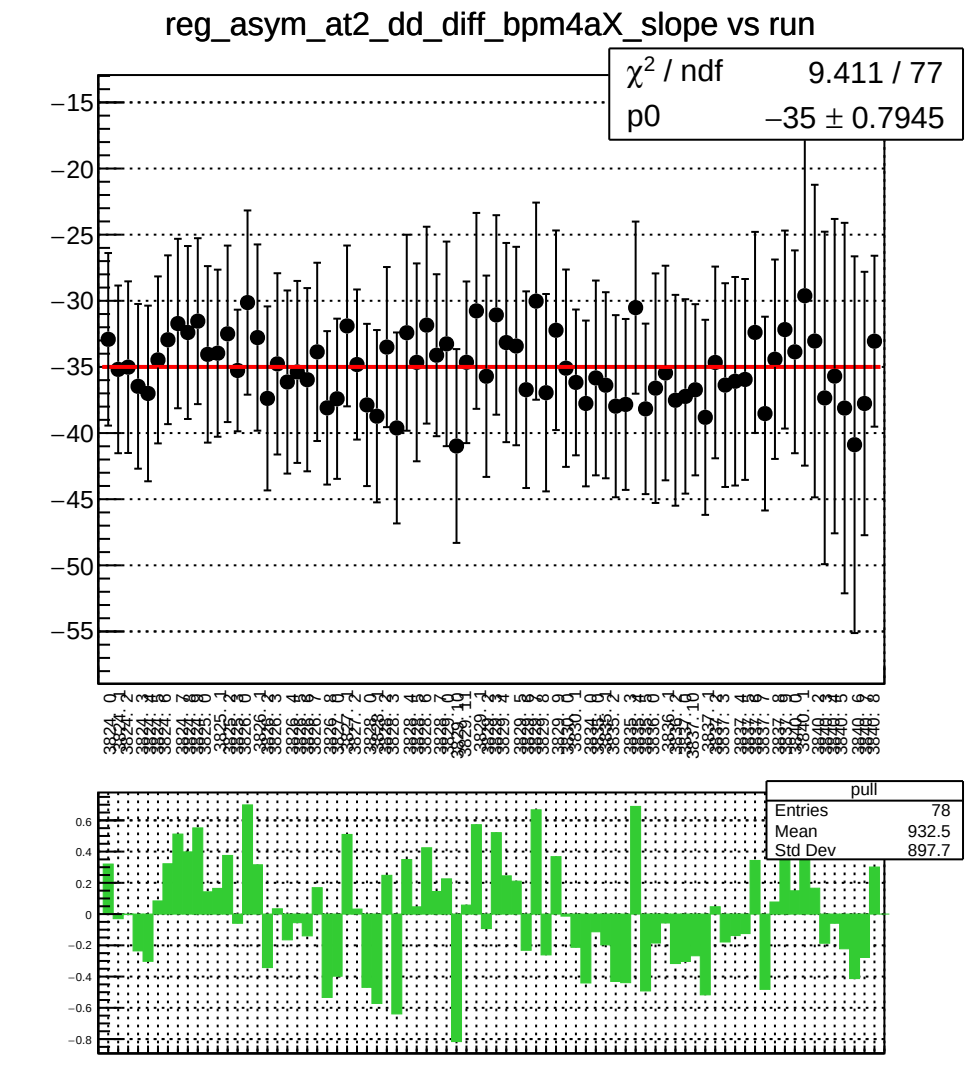

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 28.9 / 77
p0 −110.8 ± 2.117
pull
Entries 78
Mean 145.3
Std Dev 82.97
pull1D
Entries 78
Mean 0.03913
Std Dev 0.6074

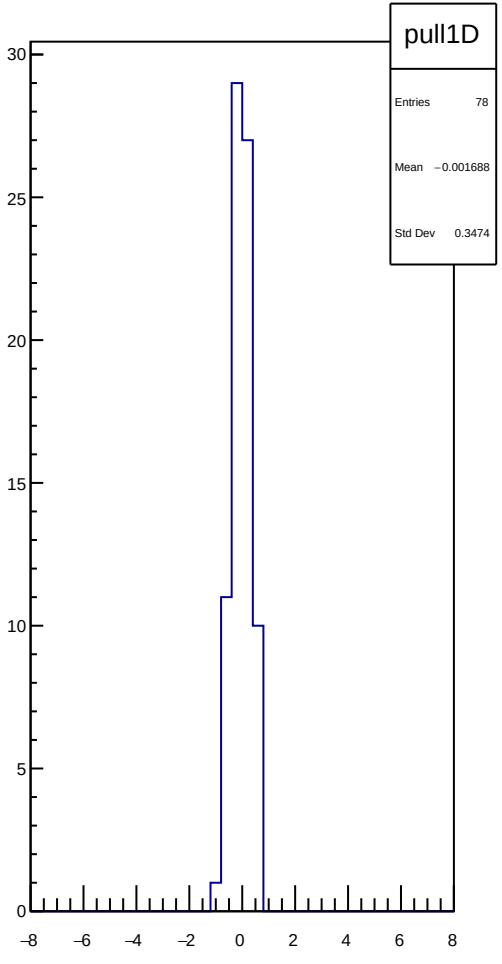

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.77 / 77
p0 20.98 ± 1.564
pull
Entries 78
Mean 123.8
Std Dev 76.06
pull1D
Entries 78
Mean −0.1046
Std Dev 0.7838

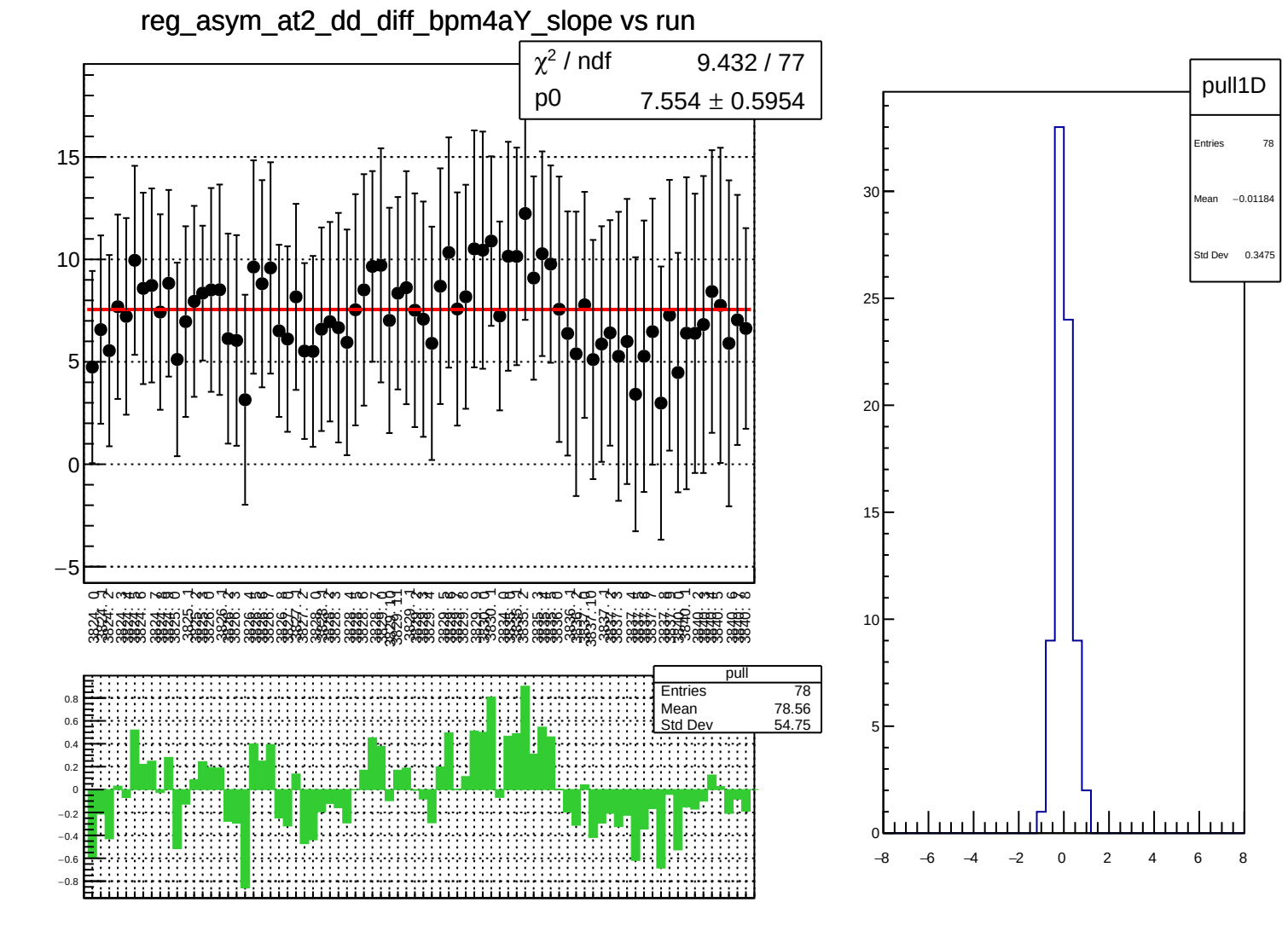

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 103 / 77
p0 −119.7 ± 0.3663
pull
Entries 78
Mean 148.1
Std Dev 101.8
pull1D
Entries 78
Mean −0.1661
Std Dev 1.137

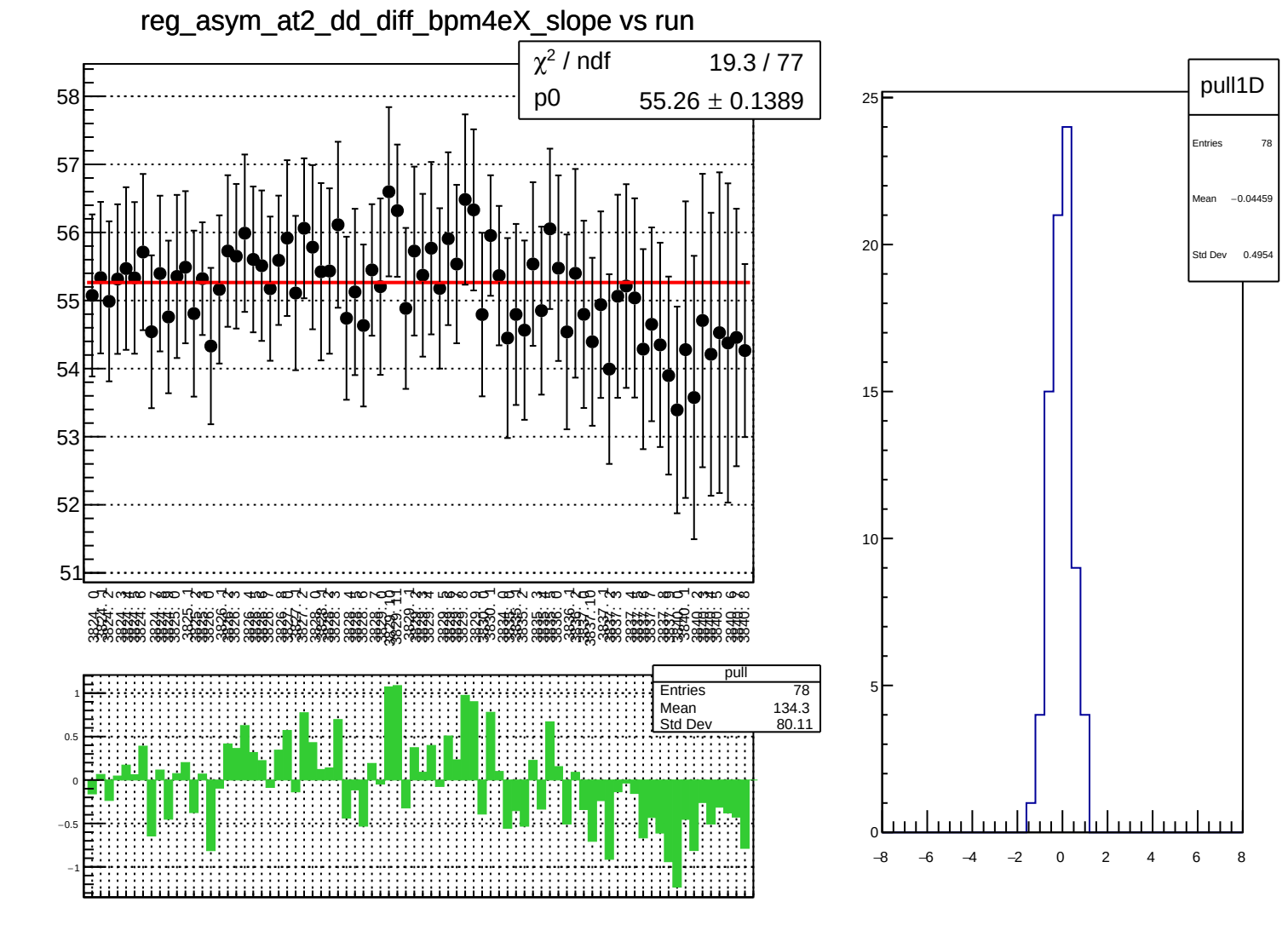

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.34 / 77
p0 55.98 ± 2.459
pull
Entries 78
Mean 241.2
Std Dev 194.8
pull1D
Entries 78
Mean 0.0294
Std Dev 0.4278

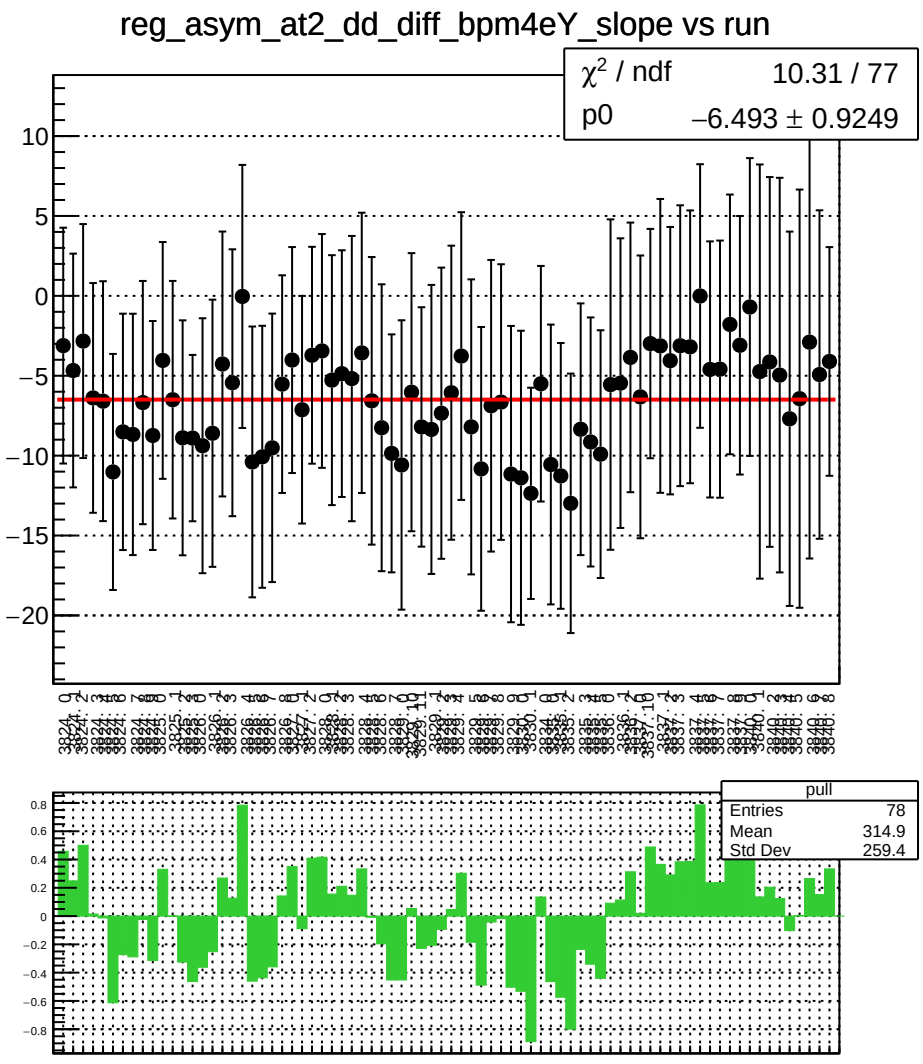

reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 715.5 / 77
p0 −369.4 ± 0.4646
−360
−380
−400
−420
−440
−460
pull
Entries 78
Mean 383
Std Dev 342
pull1D
Entries 78
Mean 0.0603
Std Dev 2.482

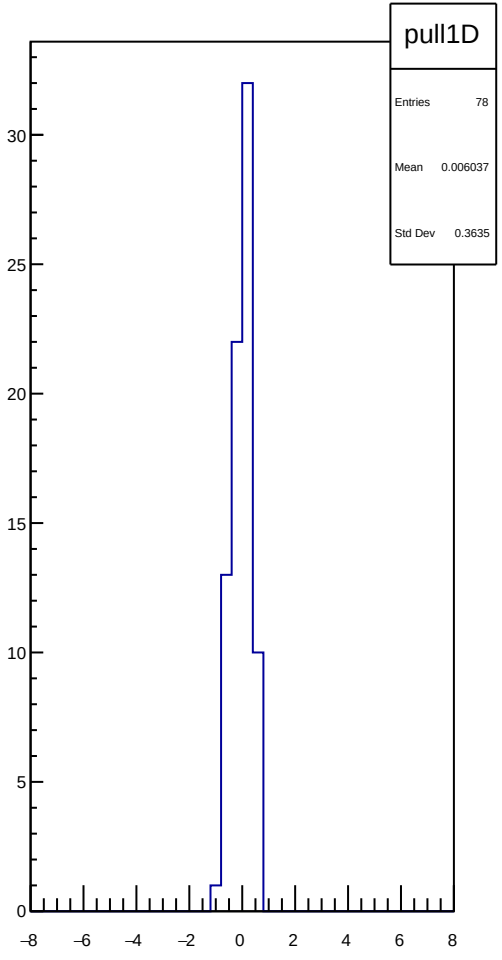

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.411 / 77
p0 −35 ± 0.7945
pull
Entries 78
Mean 932.5
Std Dev 897.7

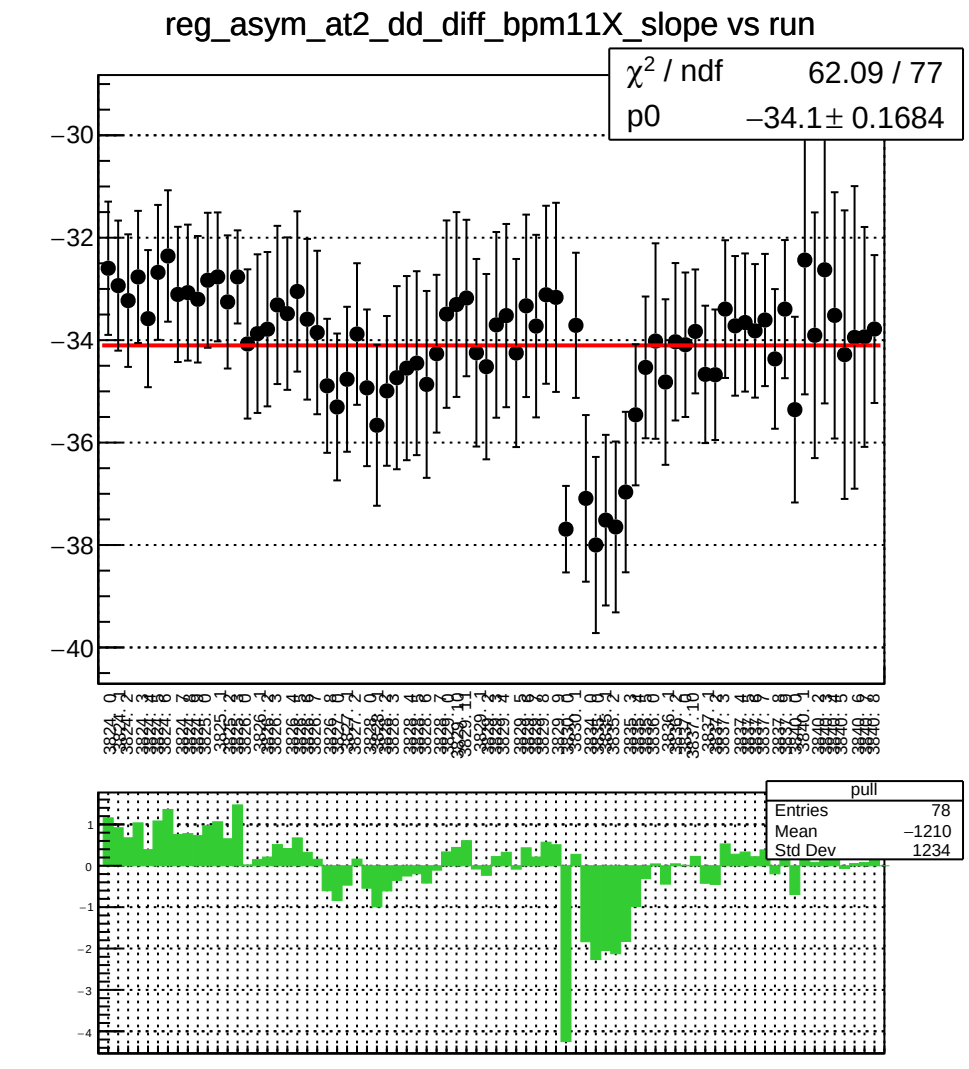

pull1D
Entries 78
Mean −0.001688
Std Dev 0.3474

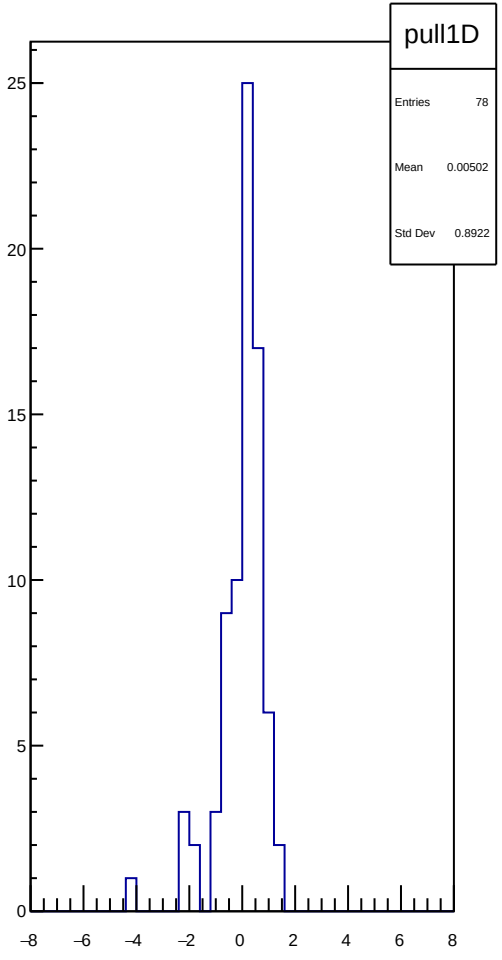

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.432 / 77
p0 7.554 ± 0.5954
pull
Entries 78
Mean 78.56
Std Dev 54.75
pull1D
Entries 78
Mean −0.01184
Std Dev 0.3475

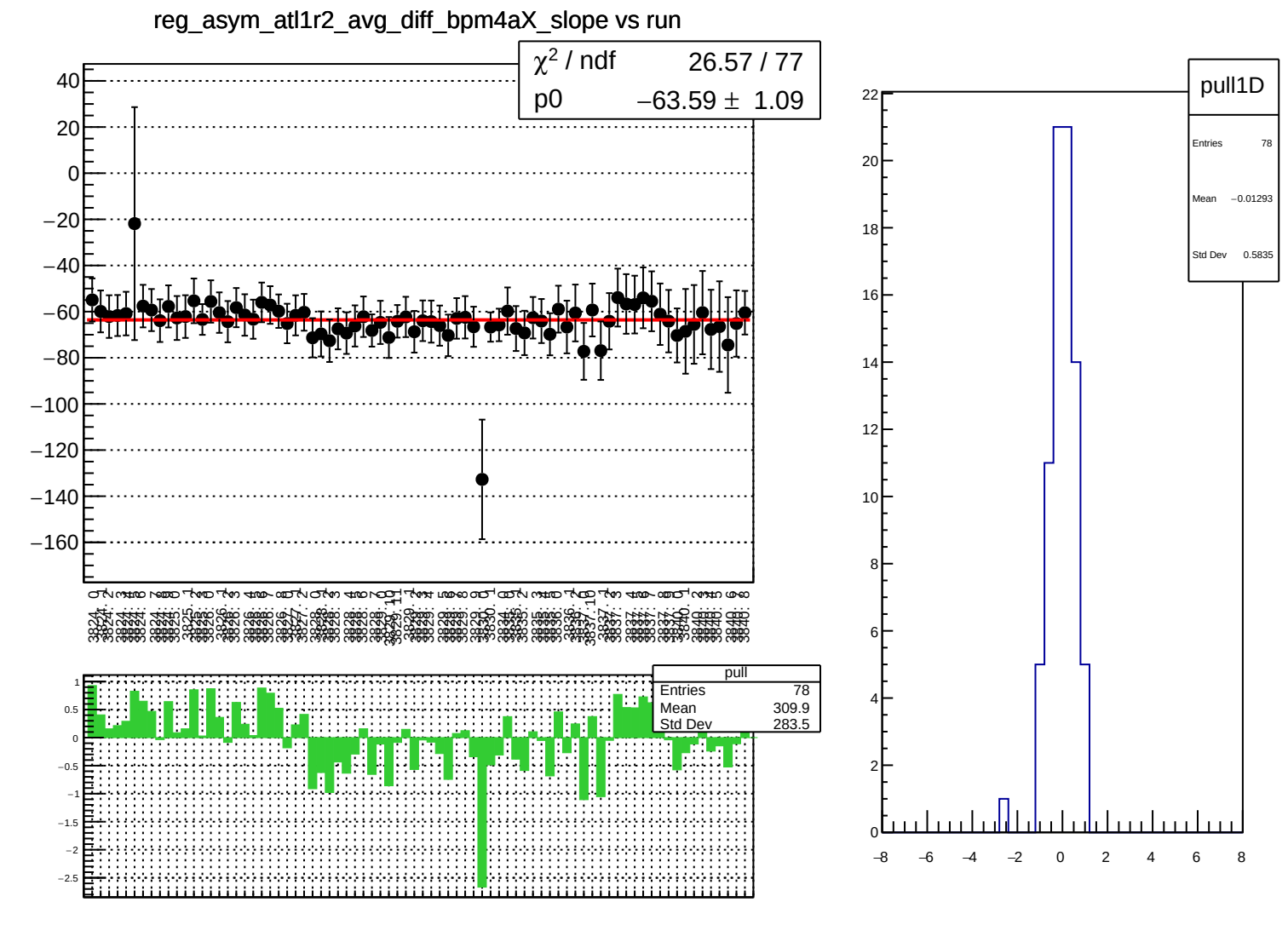

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.3 / 77
p0 55.26 ± 0.1389
pull
Entries 78
Mean 134.3
Std Dev 80.11
pull1D
Entries 78
Mean −0.04459
Std Dev 0.4954

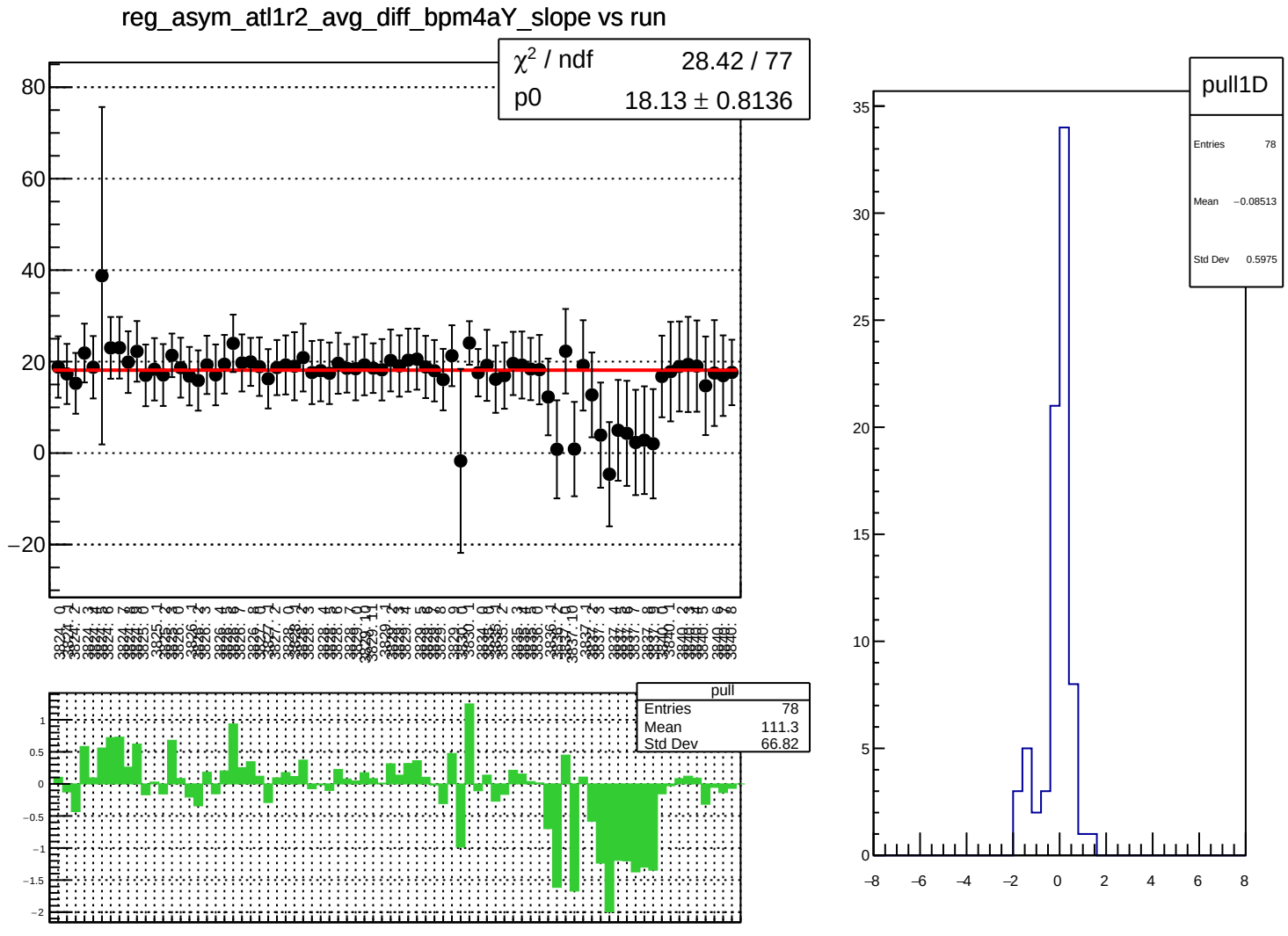

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.31 / 77
p0 −6.493 ± 0.9249
pull
Entries 78
Mean 314.9
Std Dev 259.4

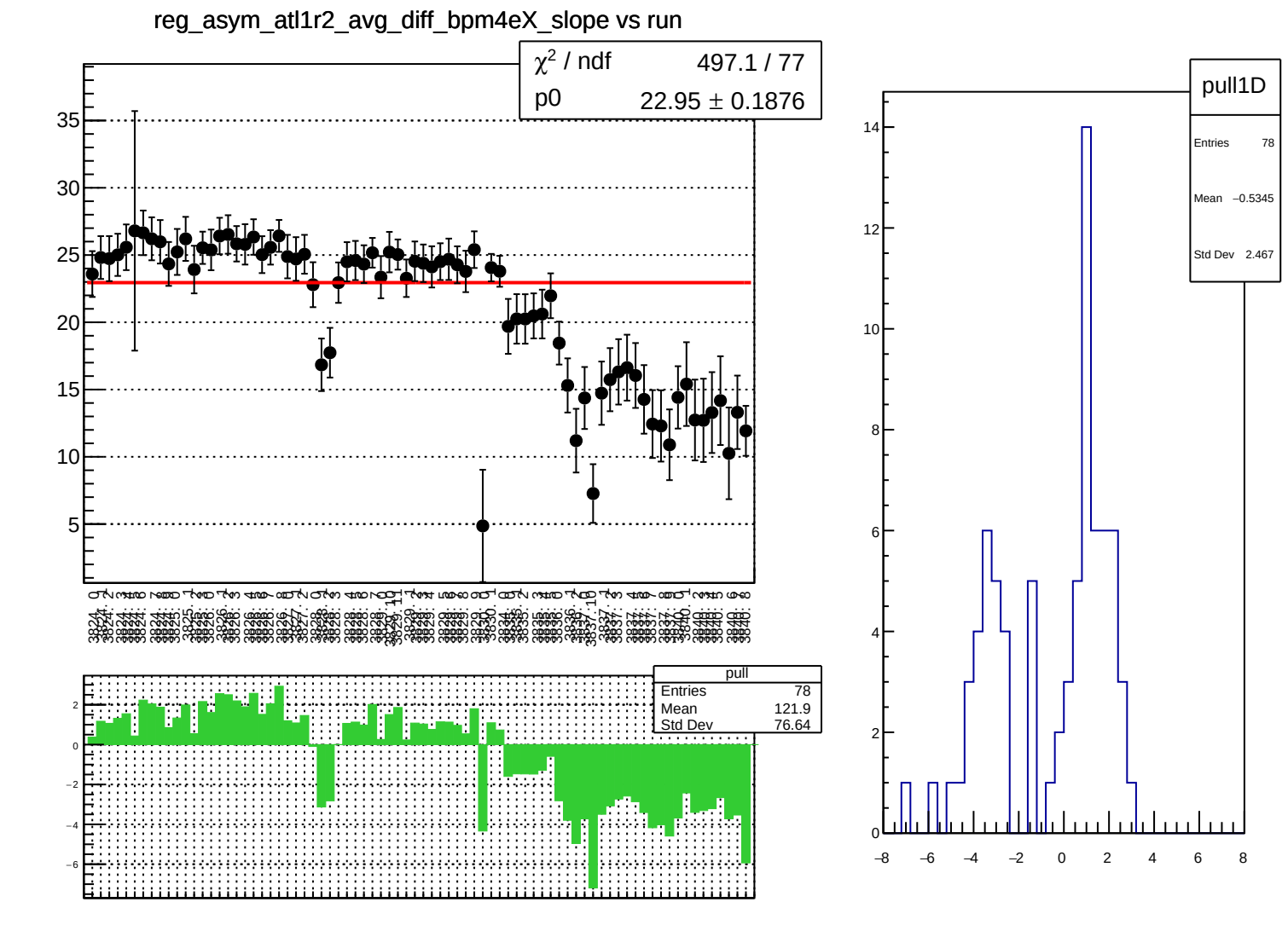

pull1D
Entries 78
Mean 0.006037
Std Dev 0.3635

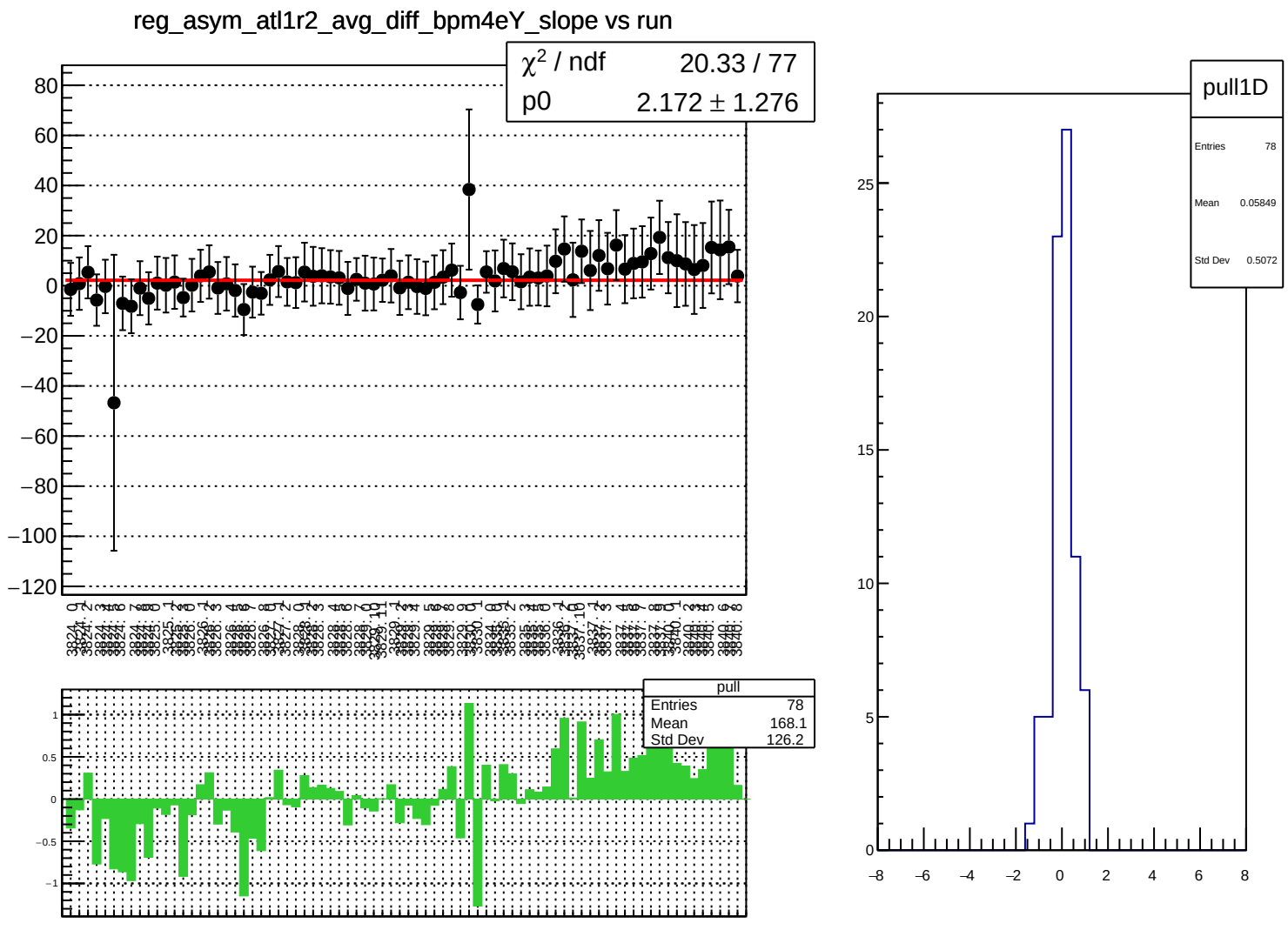

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 62.09 / 77
p0 −34.1 ± 0.1684
pull
Entries 78
Mean −1210
Std Dev 1234

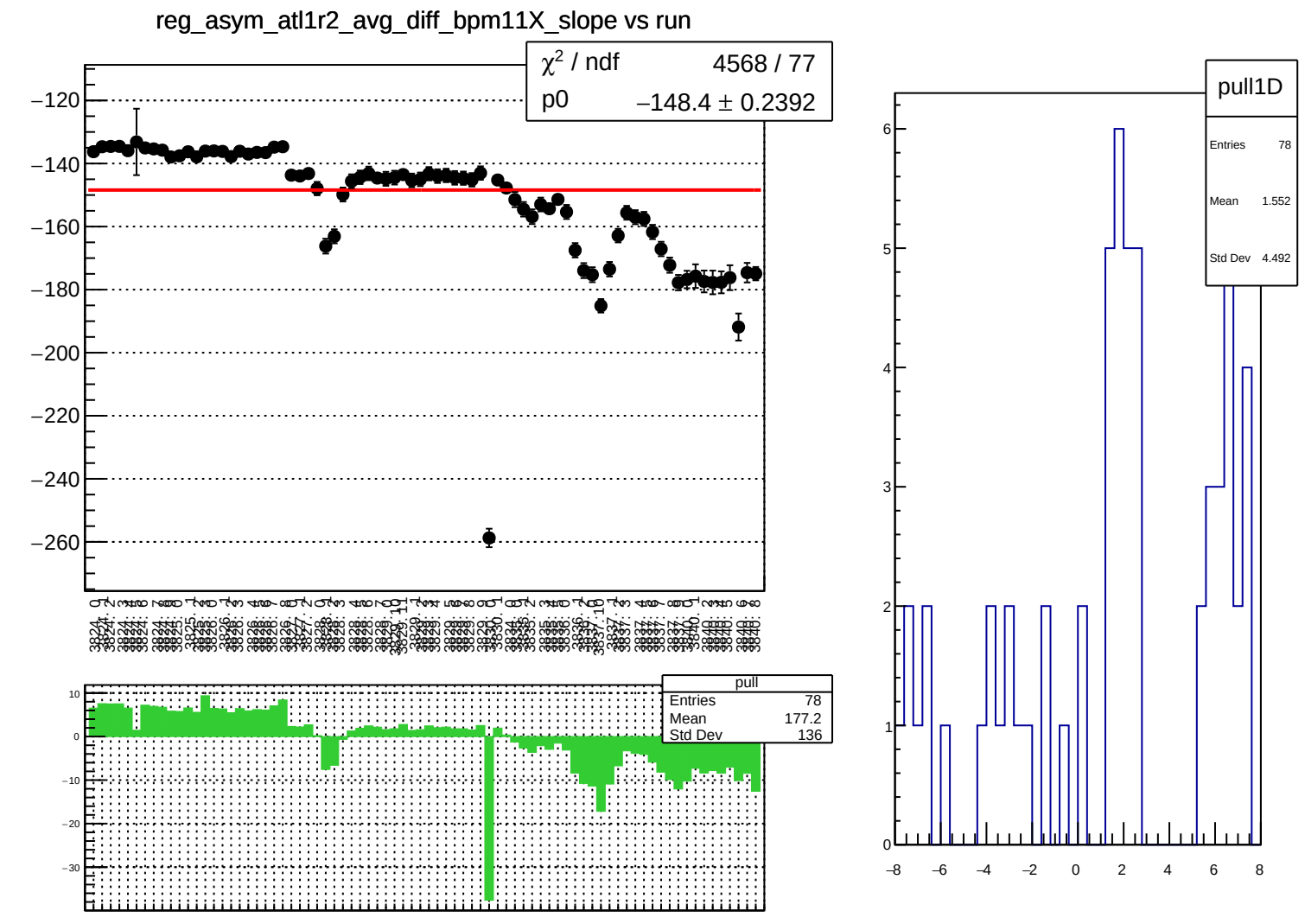

pull1D
Entries 78
Mean 0.00502
Std Dev 0.8922

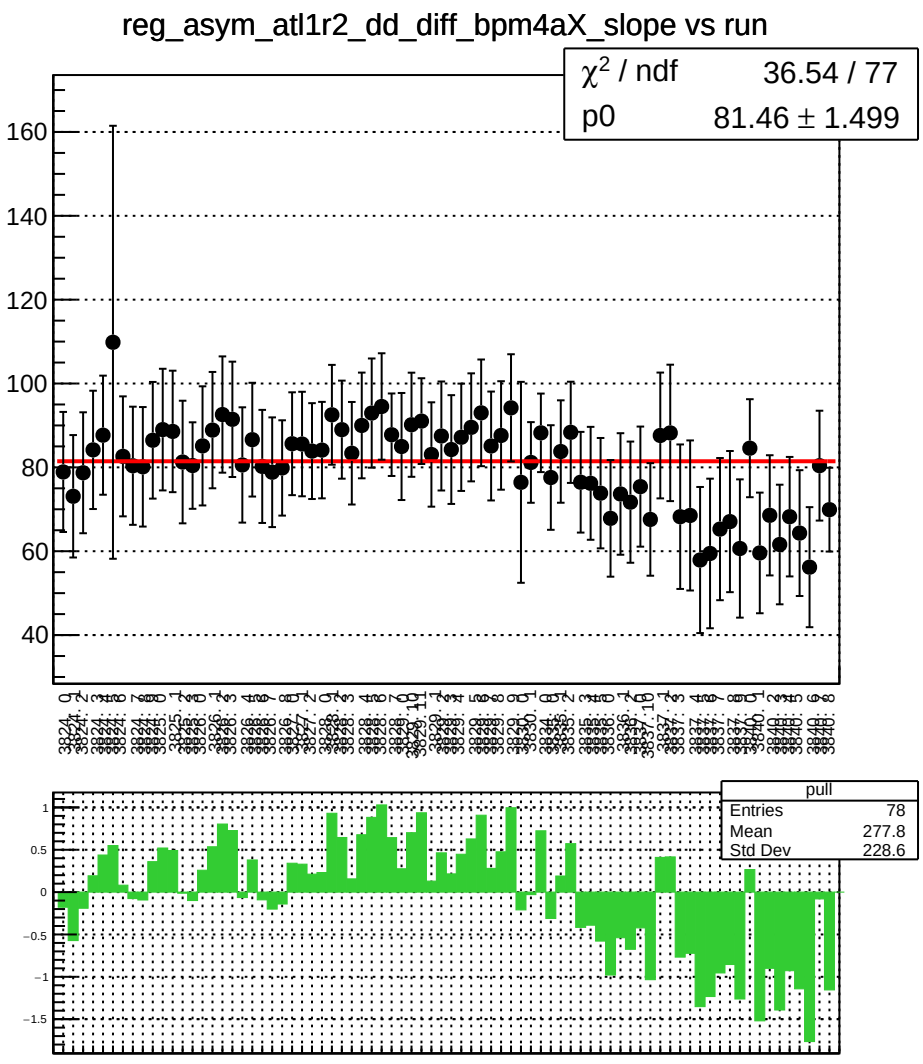

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 26.57 / 77
p0 −63.59 ± 1.09
pull
Entries 78
Mean 309.9
Std Dev 283.5
pull1D
Entries 78
Mean −0.01293
Std Dev 0.5835

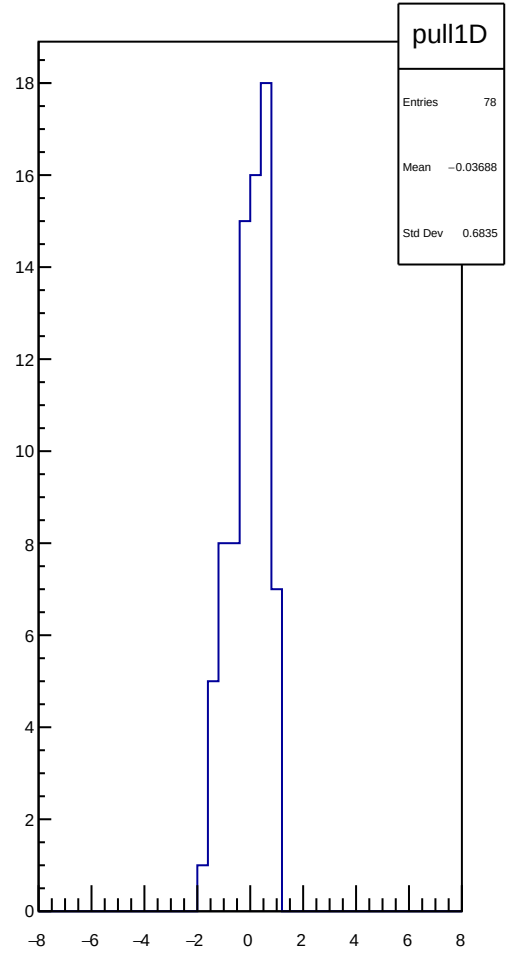

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.42 / 77
p0 18.13 ± 0.8136
pull
Entries 78
Mean 111.3
Std Dev 66.82
pull1D
Entries 78
Mean −0.08513
Std Dev 0.5975

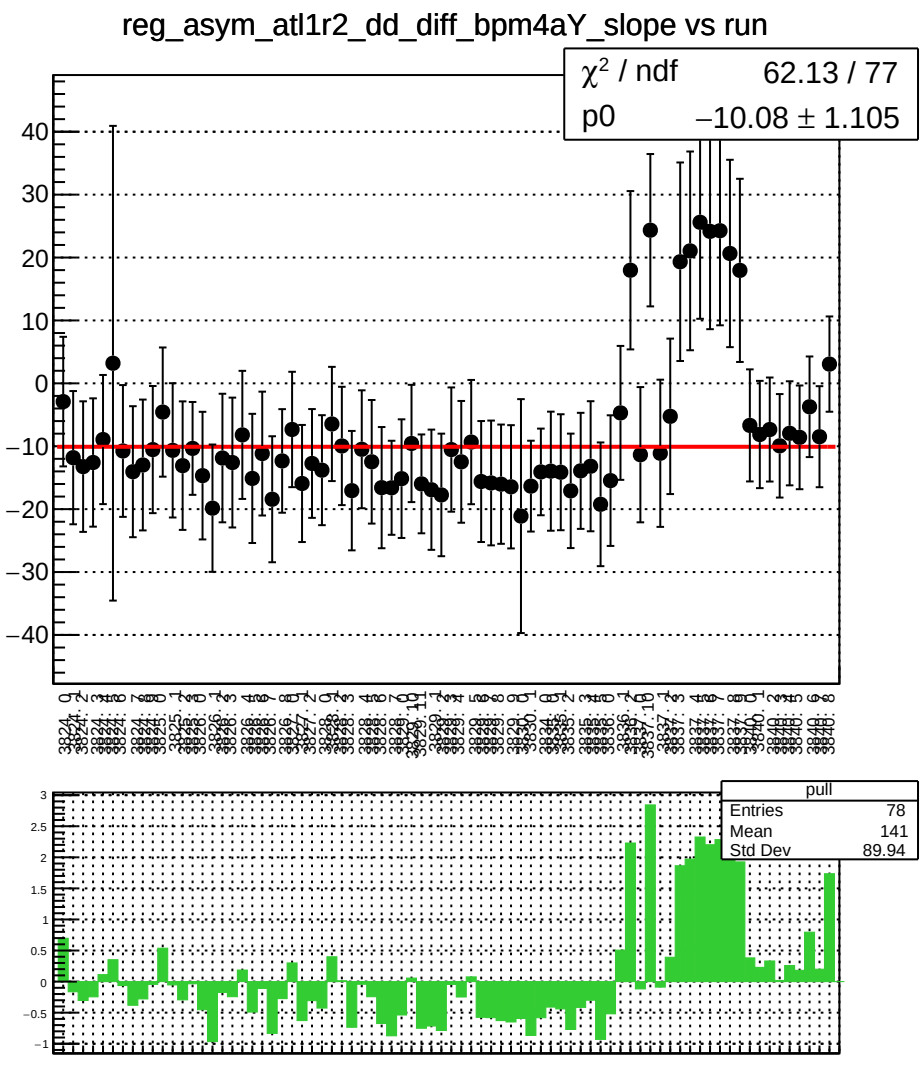

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 497.1 / 77
p0 22.95 ± 0.1876
pull
Entries 78
Mean 121.9
Std Dev 76.64
pull1D
Entries 78
Mean −0.5345
Std Dev 2.467

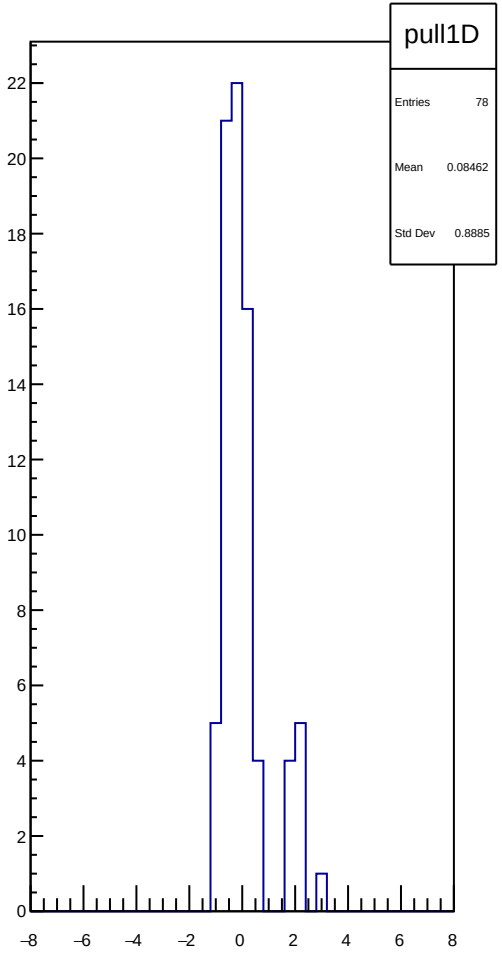

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.33 / 77
p0 2.172 ± 1.276
pull
Entries 78
Mean 168.1
Std Dev 126.2
pull1D
Entries 78
Mean 0.05849
Std Dev 0.5072

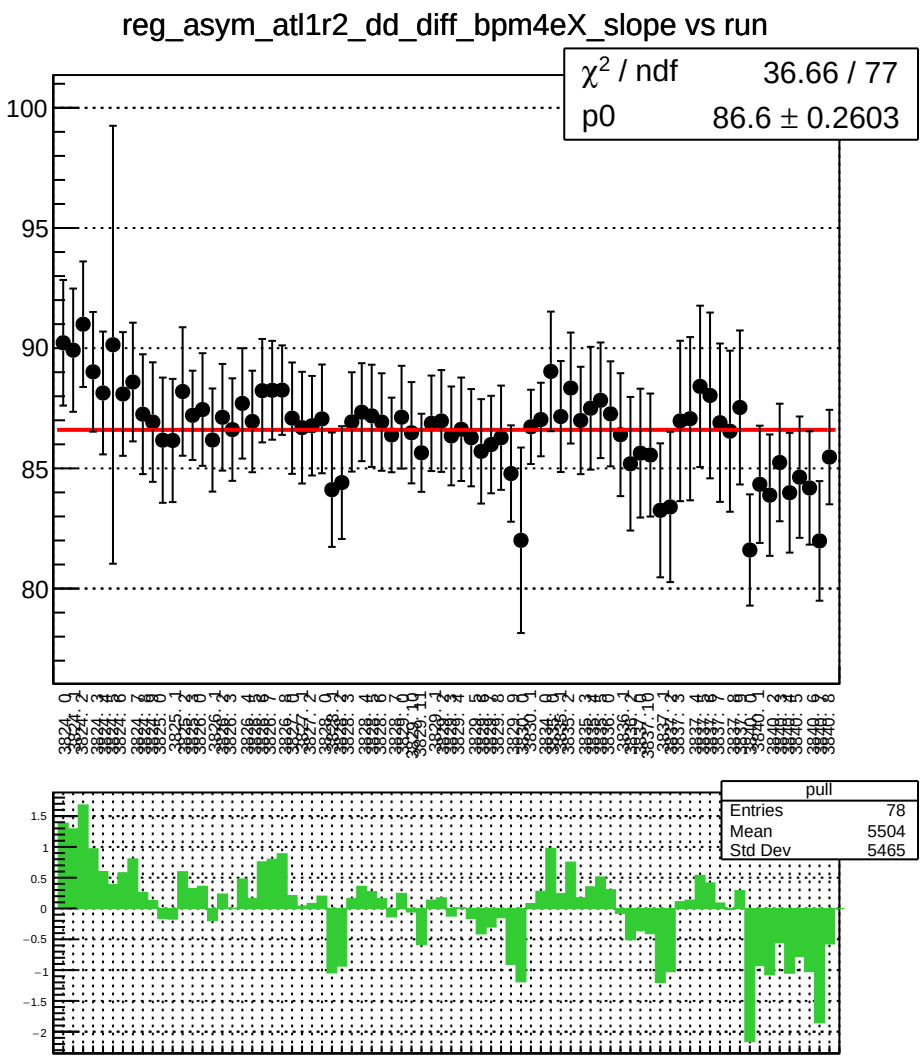

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 4568 / 77
p0 −148.4 ± 0.2392
−120
−140
−160
−180
−200
−220
−240
−260
pull
Entries 78
Mean 177.2
Std Dev 136
10
0
−10
−20
−30
pull1D
Entries 78
Mean 1.552
Std Dev 4.492
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

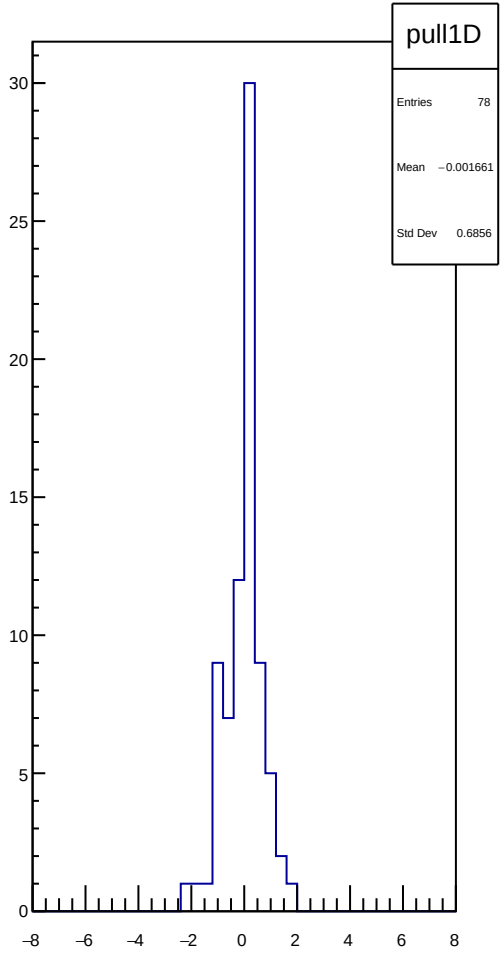

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 36.54 / 77
p0 81.46 ± 1.499
160
140
120
100
80
60
40
pull
Entries 78
Mean 277.8
Std Dev 228.6
1
0.5
0
−0.5
−1
−1.5

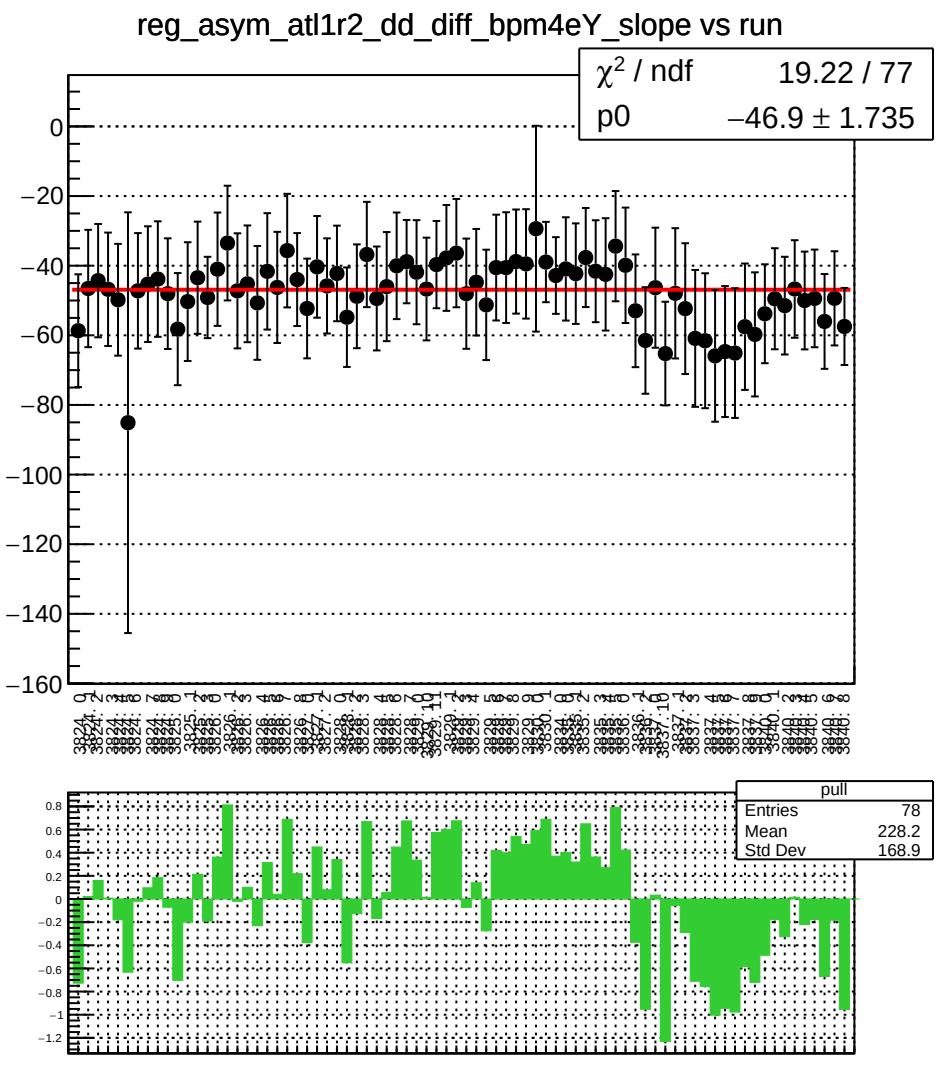

pull1D
Entries 78
Mean −0.03688
Std Dev 0.6835
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

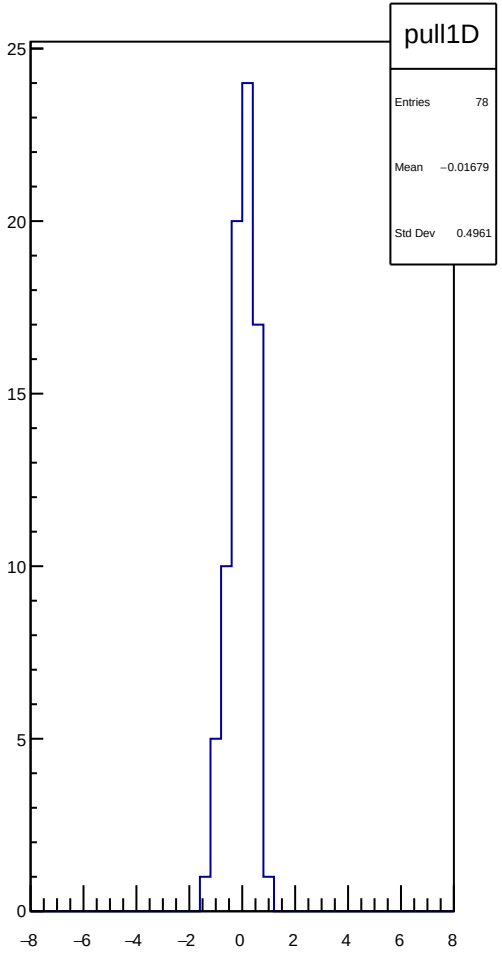

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 62.13 / 77
p0 −10.08 ± 1.105
pull
Entries 78
Mean 141
Std Dev 89.94

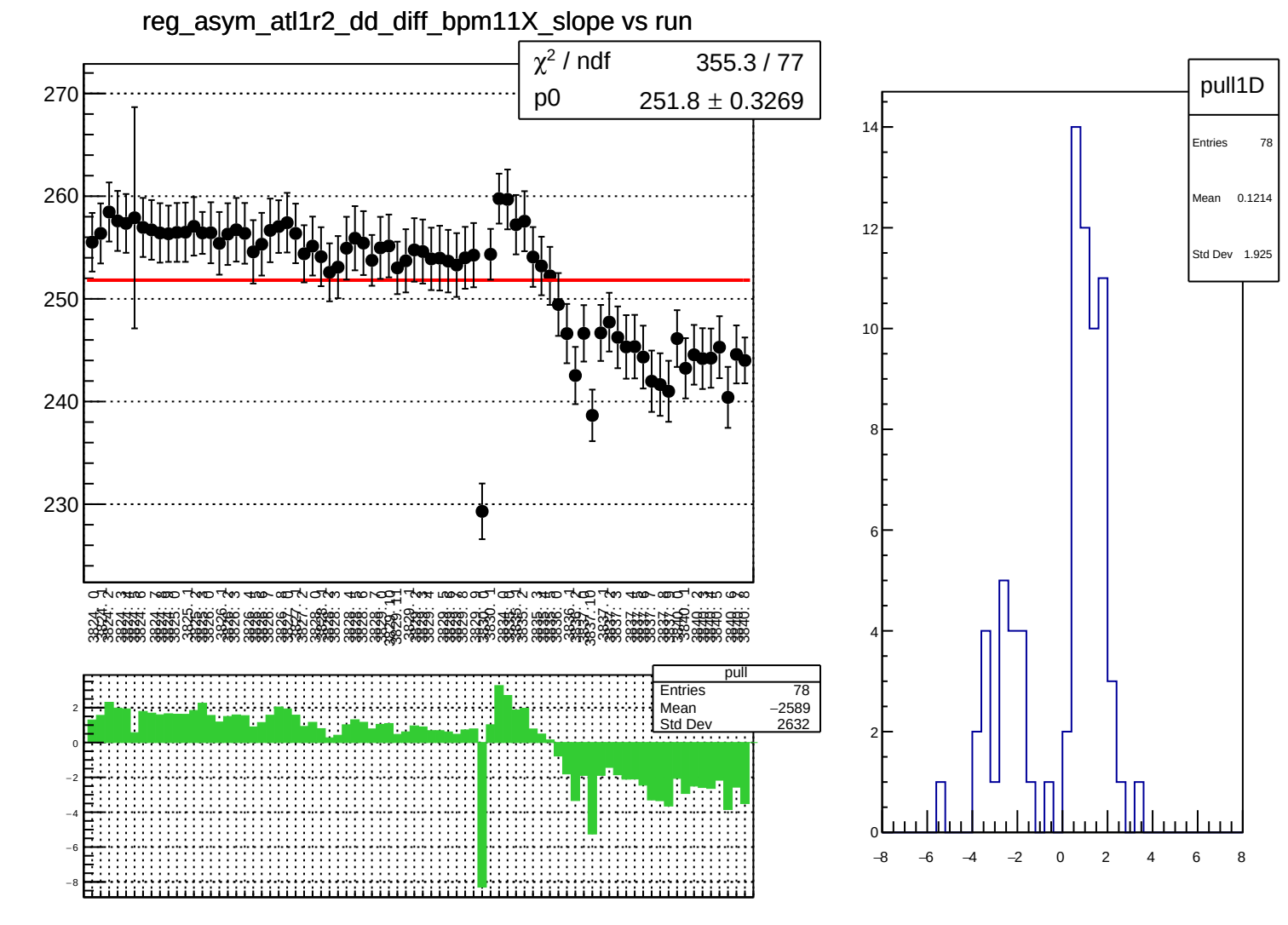

pull1D
Entries 78
Mean 0.08462
Std Dev 0.8885

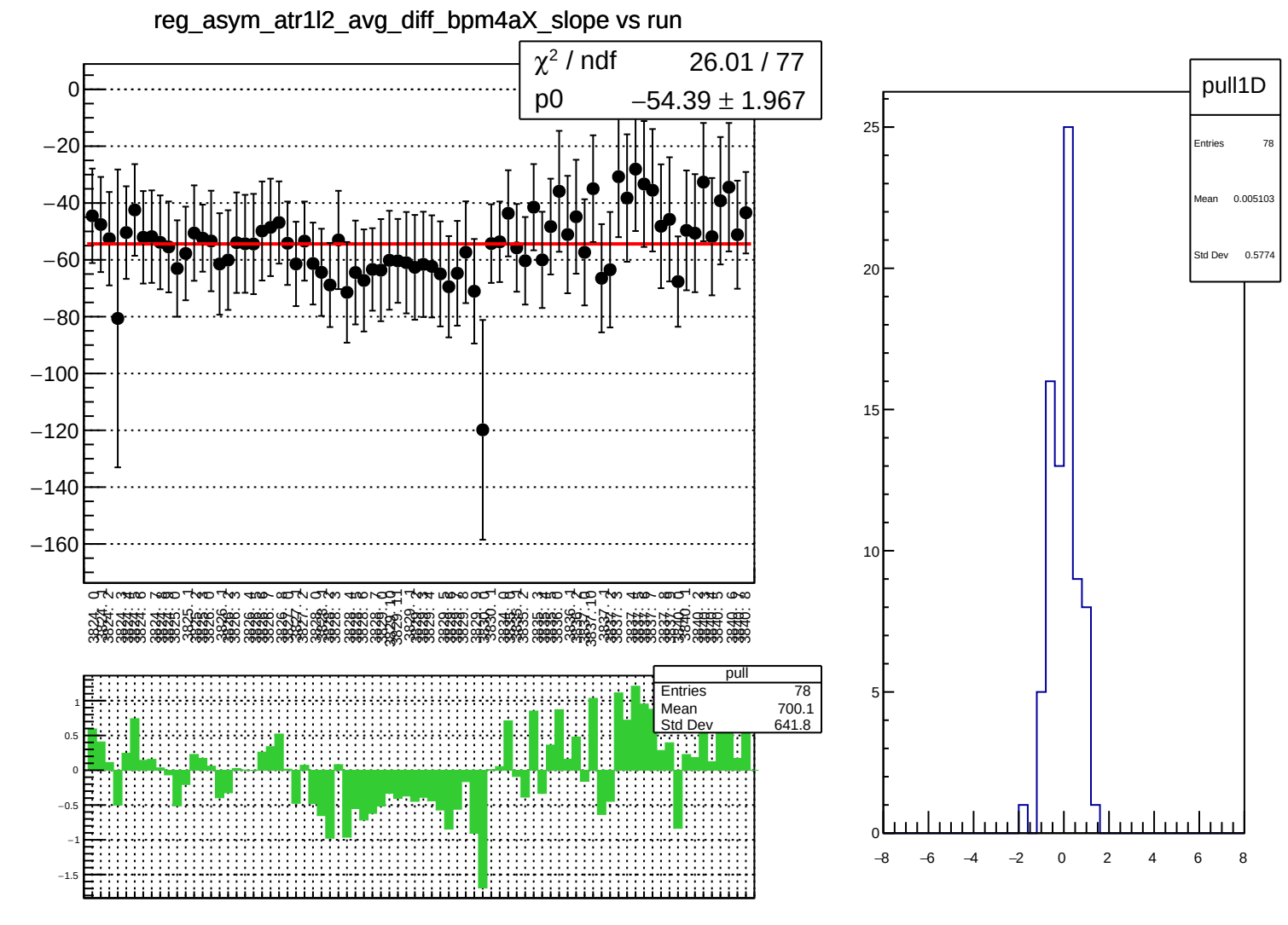

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.66 / 77
p0 86.6 ± 0.2603
100
95
90
85
80
pull
Entries 78
Mean 5504
Std Dev 5465
1.5
1
0.5
0
−0.5
−1
−1.5
−2

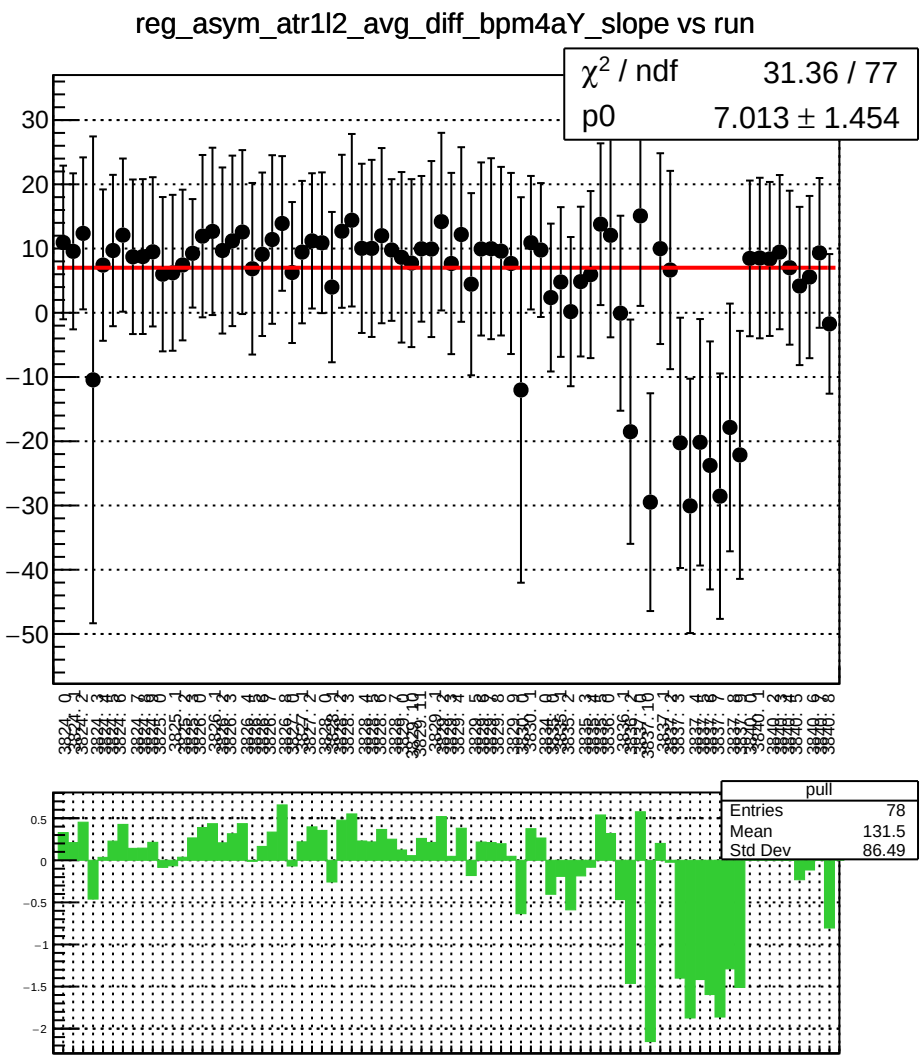

pull1D
Entries 78
Mean −0.001661
Std Dev 0.6856
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

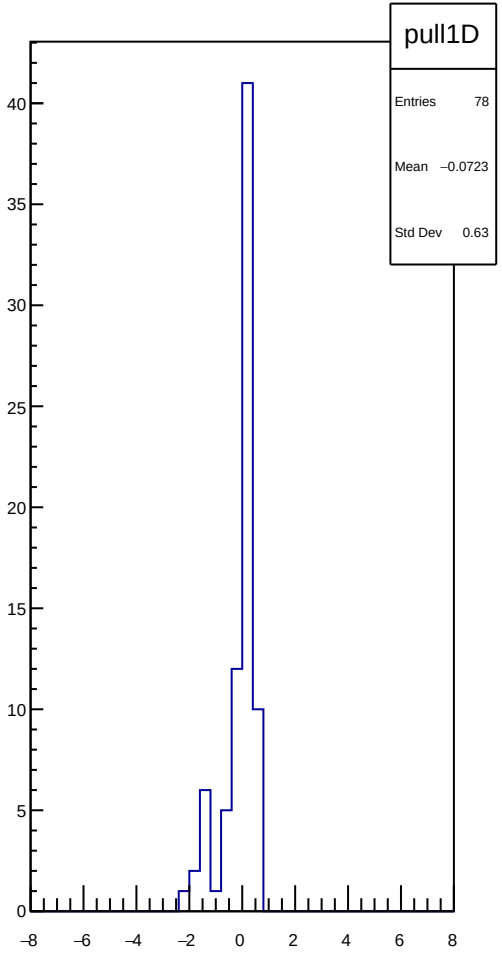

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.22 / 77
p0 −46.9 ± 1.735
pull
Entries 78
Mean 228.2
Std Dev 168.9

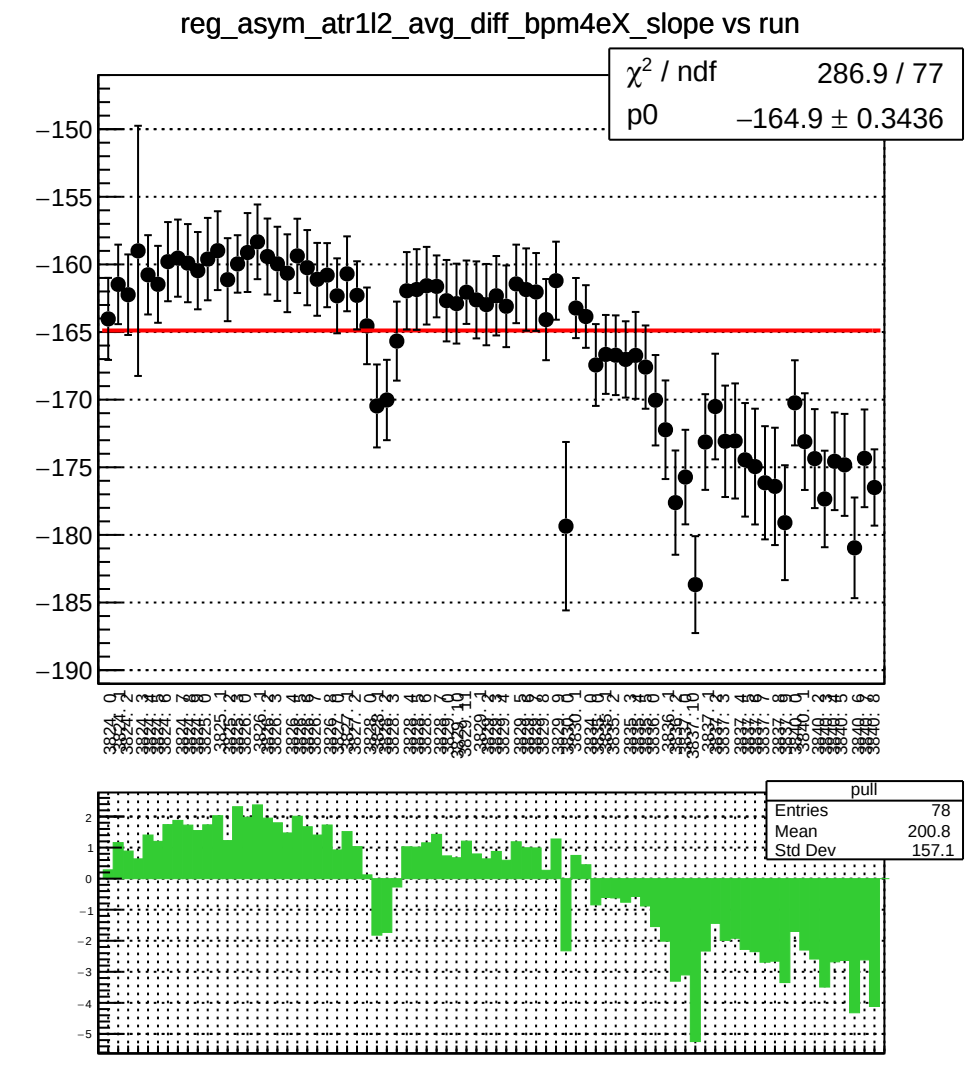

pull1D
Entries 78
Mean −0.01679
Std Dev 0.4961

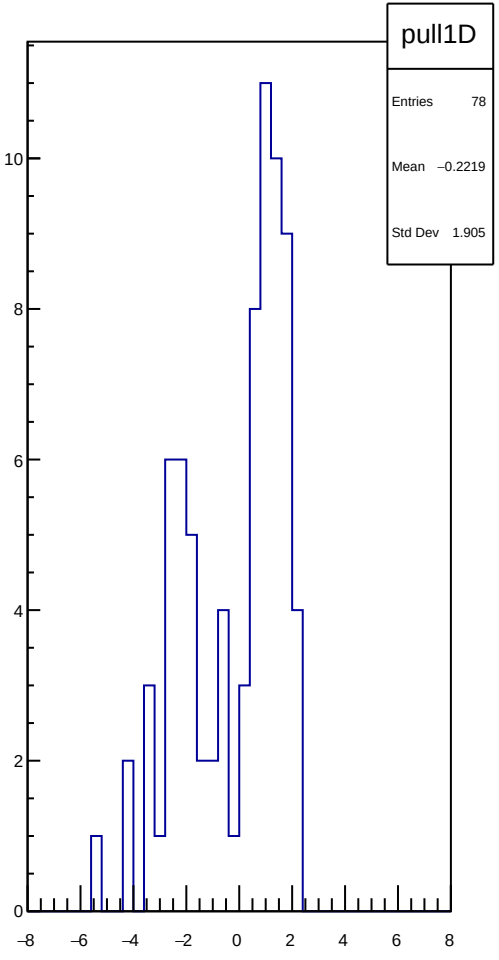

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 355.3 / 77
p0 251.8 ± 0.3269
270
260
250
240
230
pull
Entries 78
Mean −2589
Std Dev 2632
2
0
−2
−4
−6
−8
pull1D
Entries 78
Mean 0.1214
Std Dev 1.925
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

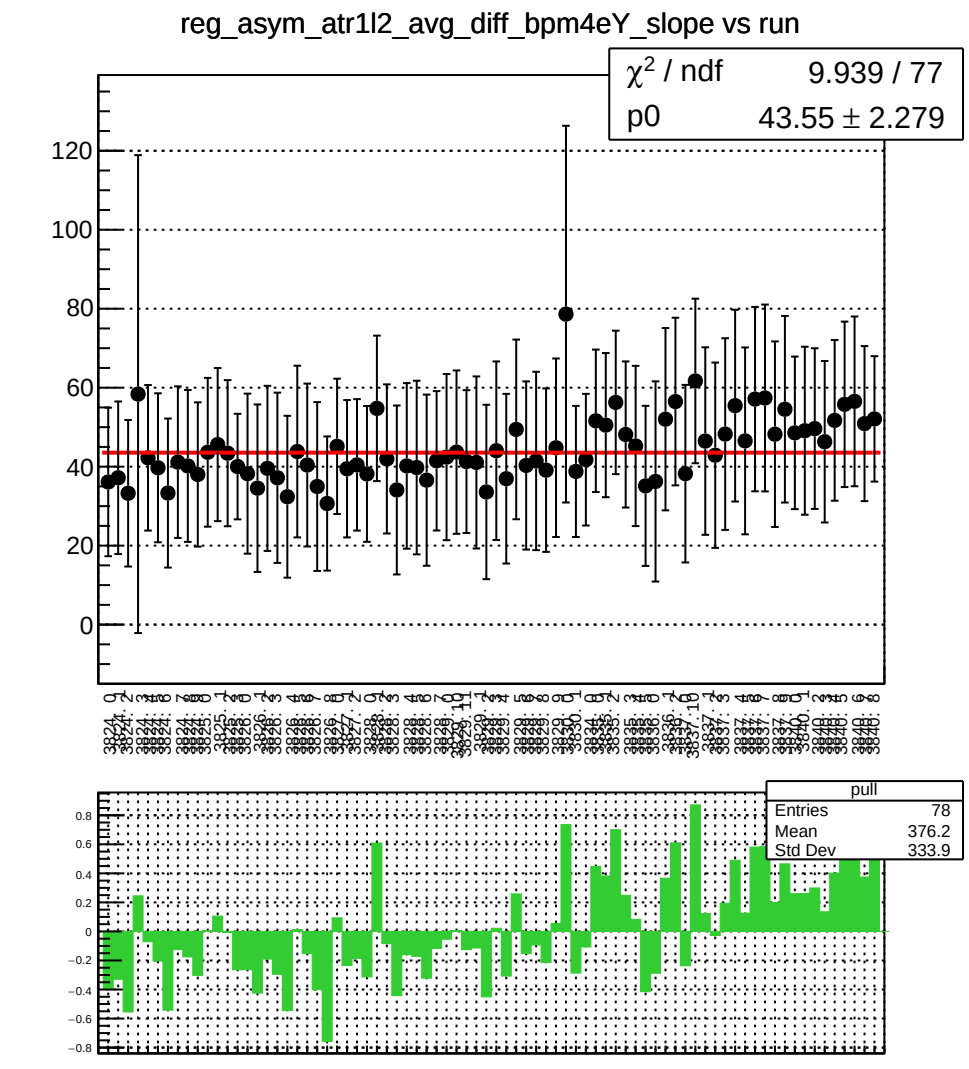

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 26.01 / 77
p0 −54.39 ± 1.967
pull
Entries 78
Mean 700.1
Std Dev 641.8
pull1D
Entries 78
Mean 0.005103
Std Dev 0.5774

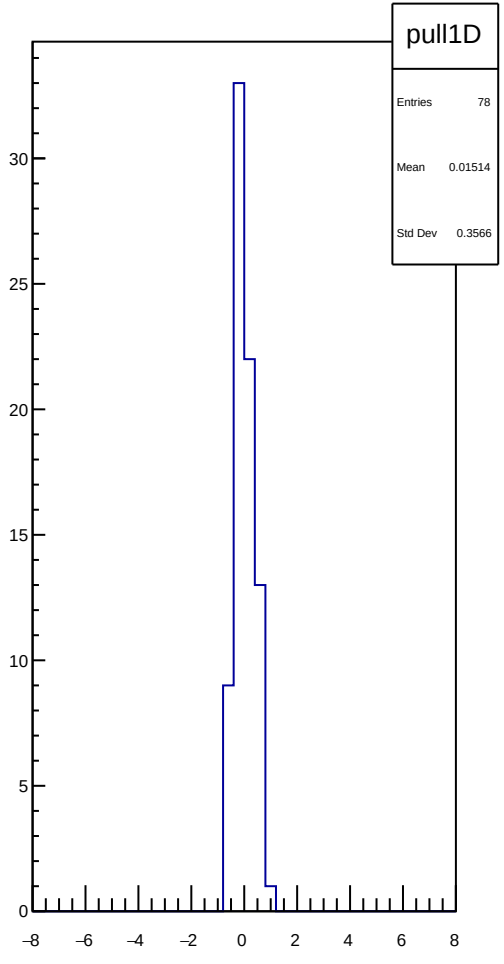

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.36 / 77
p0 7.013 ± 1.454
pull
Entries 78
Mean 131.5
Std Dev 86.49

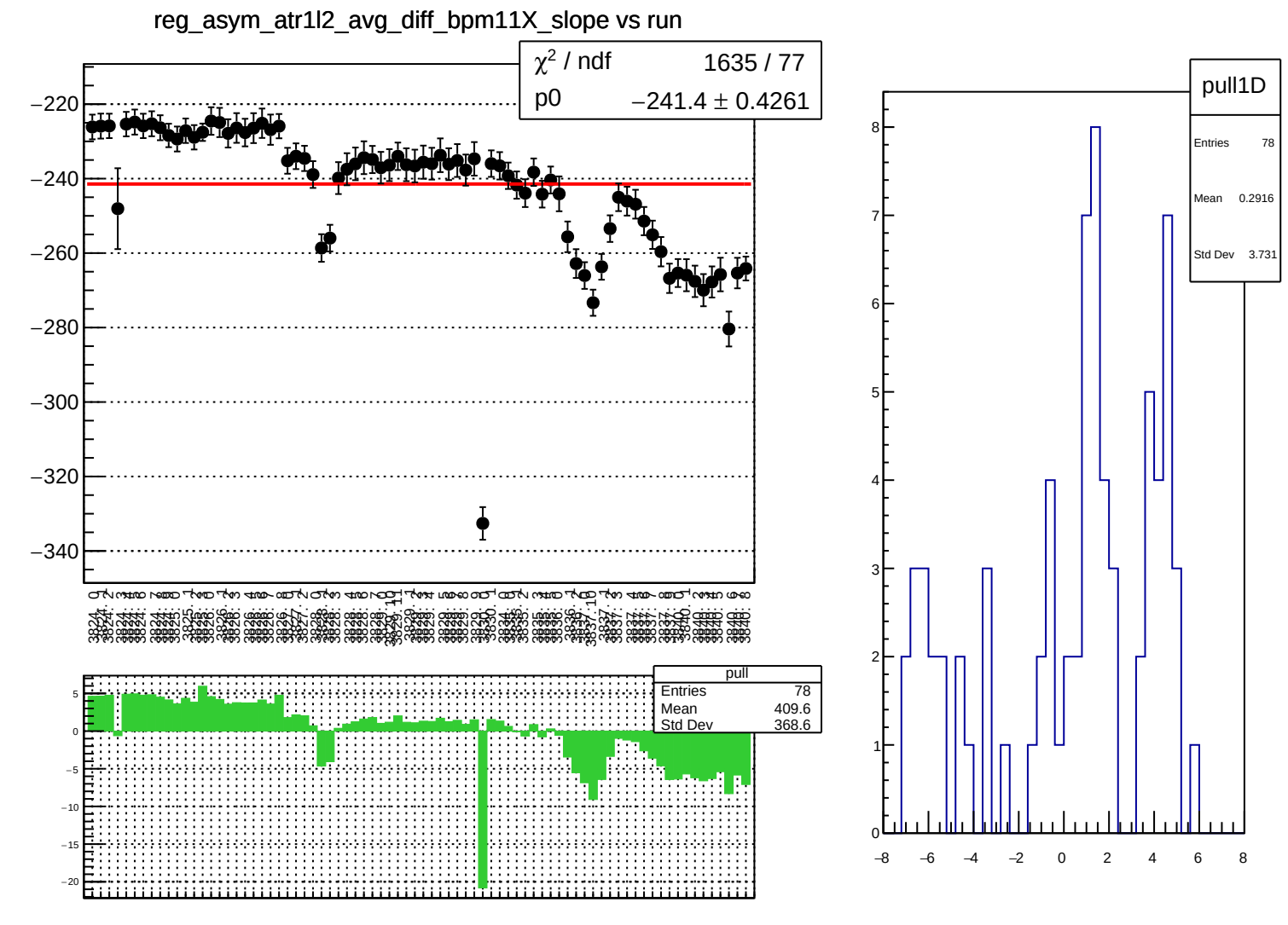

pull1D
Entries 78
Mean −0.0723
Std Dev 0.63

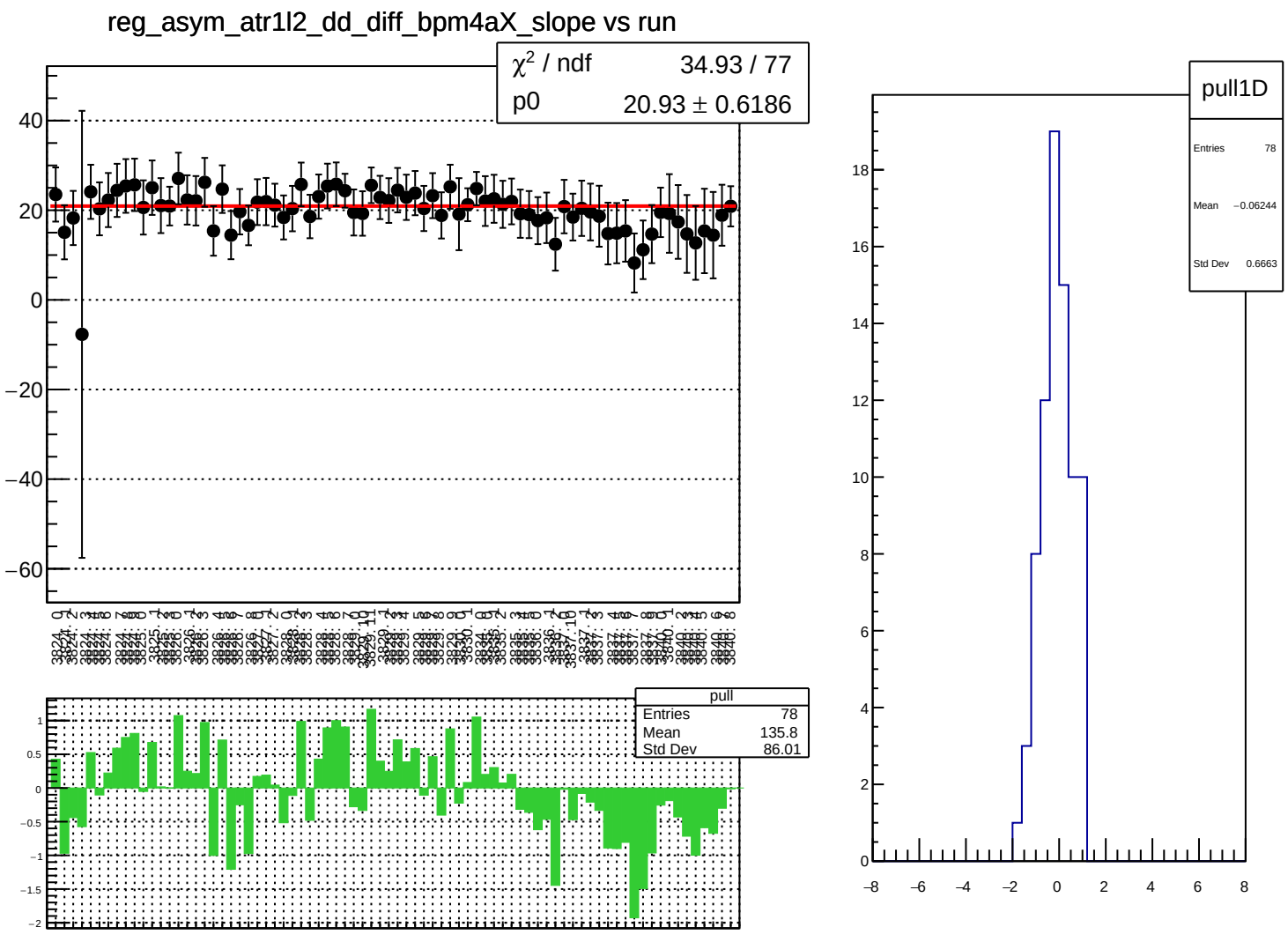

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 286.9 / 77
p0 −164.9 ± 0.3436
pull
Entries 78
Mean 200.8
Std Dev 157.1

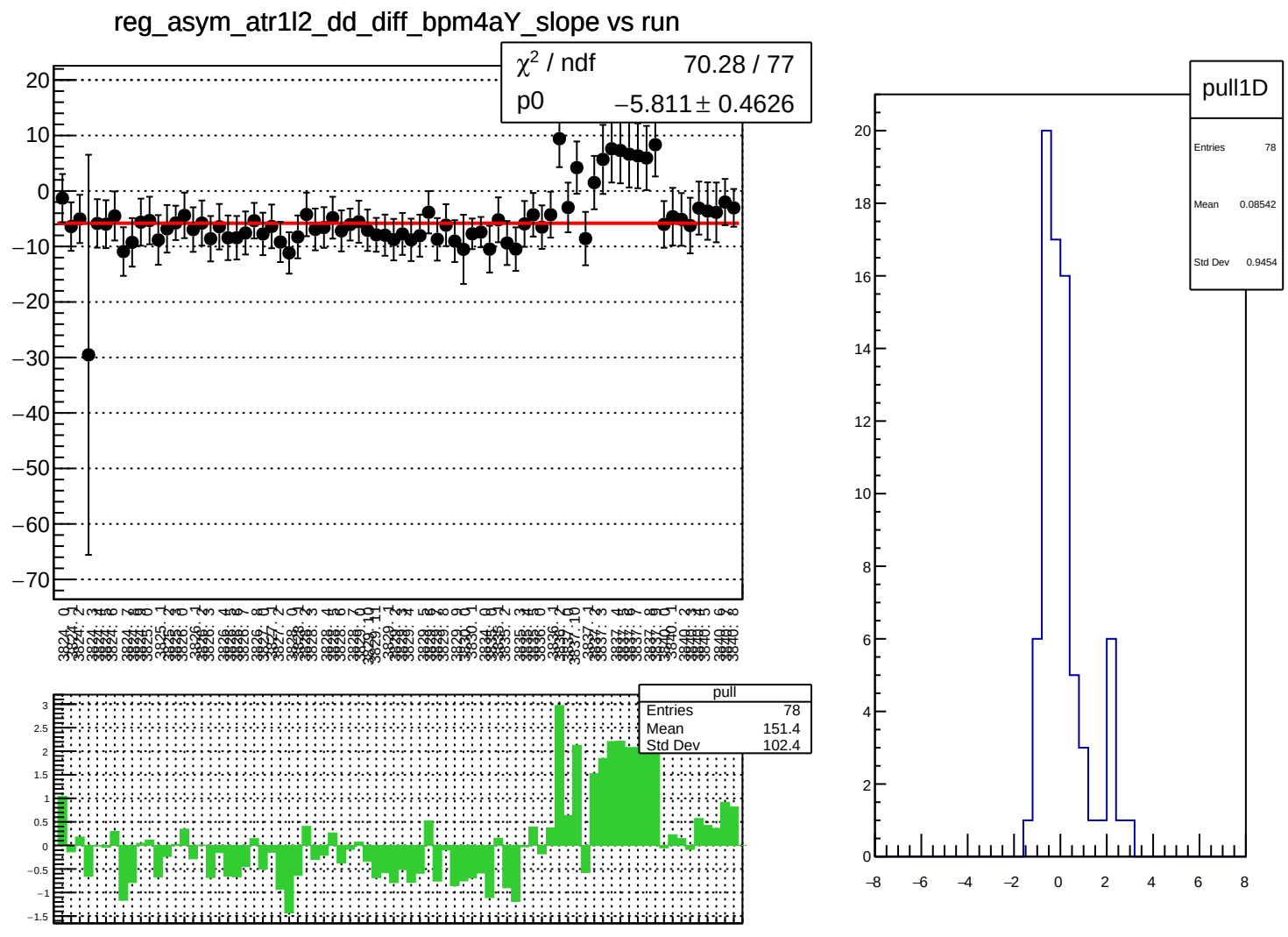

pull1D
Entries 78
Mean −0.2219
Std Dev 1.905

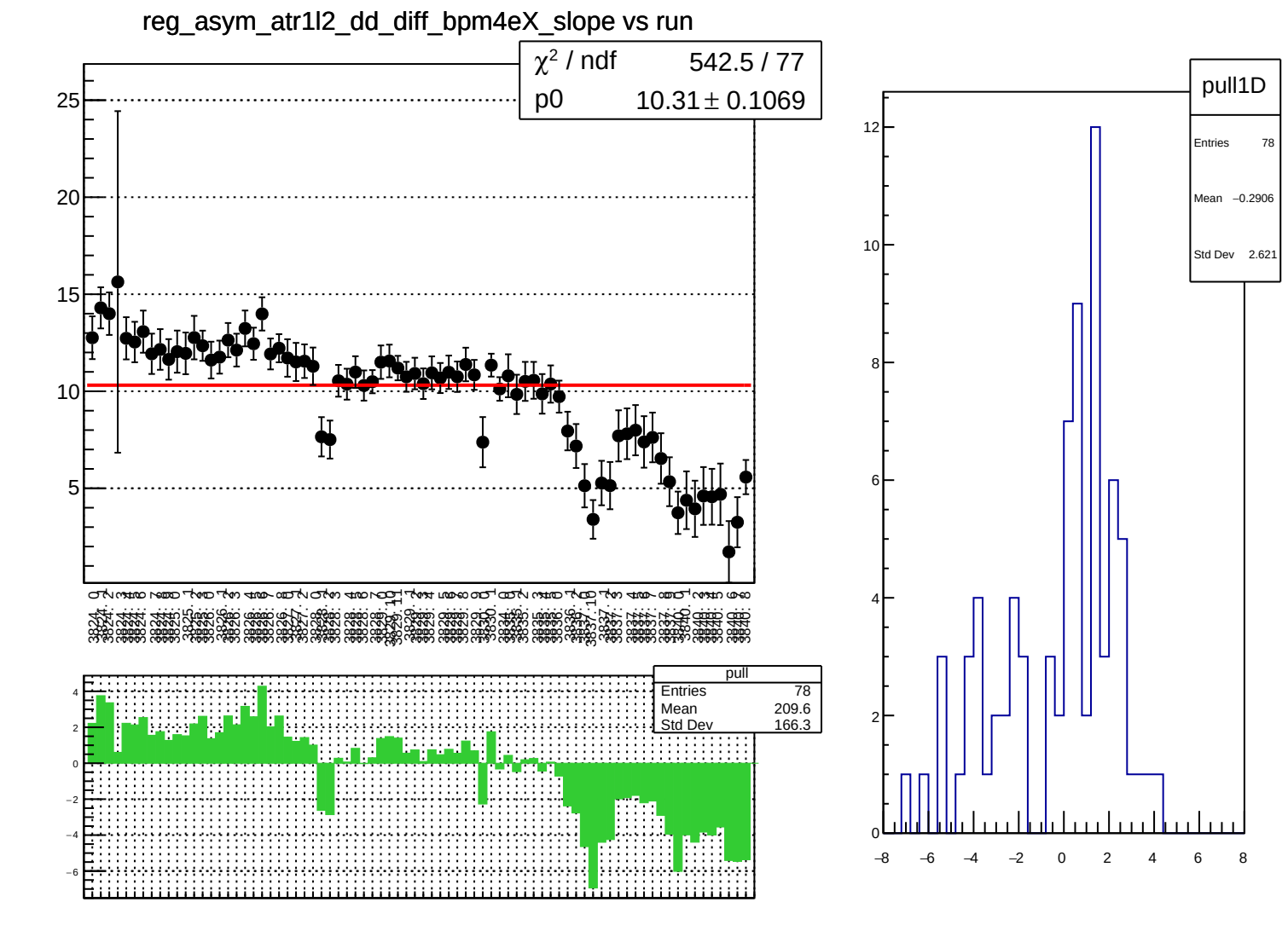

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.939 / 77
p0 43.55 ± 2.279
pull
Entries 78
Mean 376.2
Std Dev 333.9

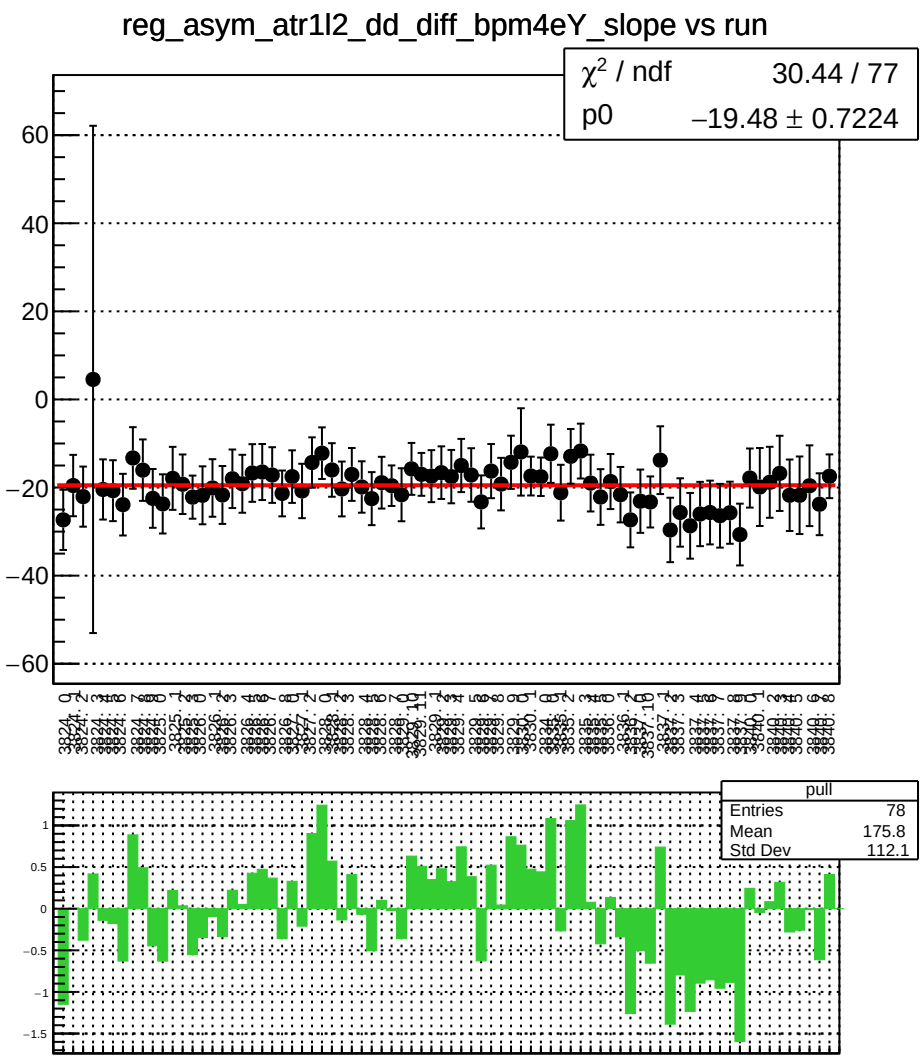

pull1D
Entries 78
Mean 0.01514
Std Dev 0.3566

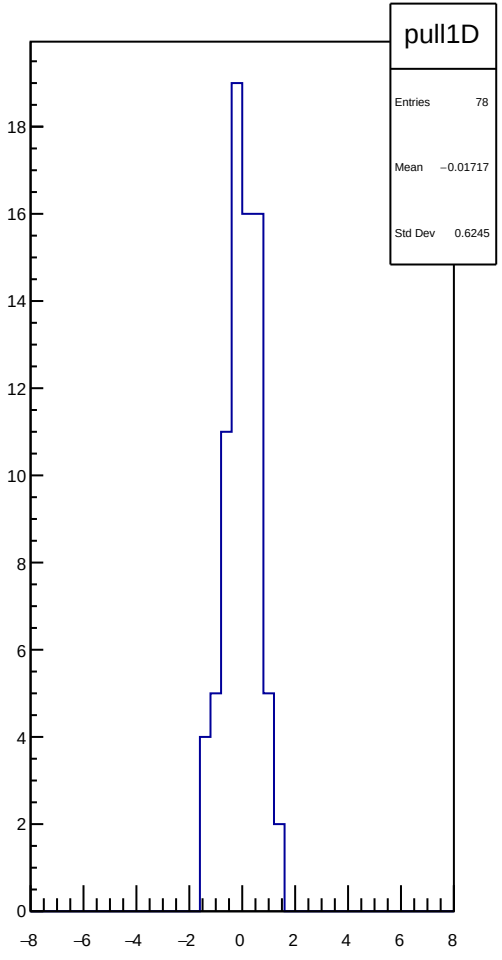

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 1635 / 77
p0 −241.4 ± 0.4261
pull
Entries 78
Mean 409.6
Std Dev 368.6
pull1D
Entries 78
Mean 0.2916
Std Dev 3.731

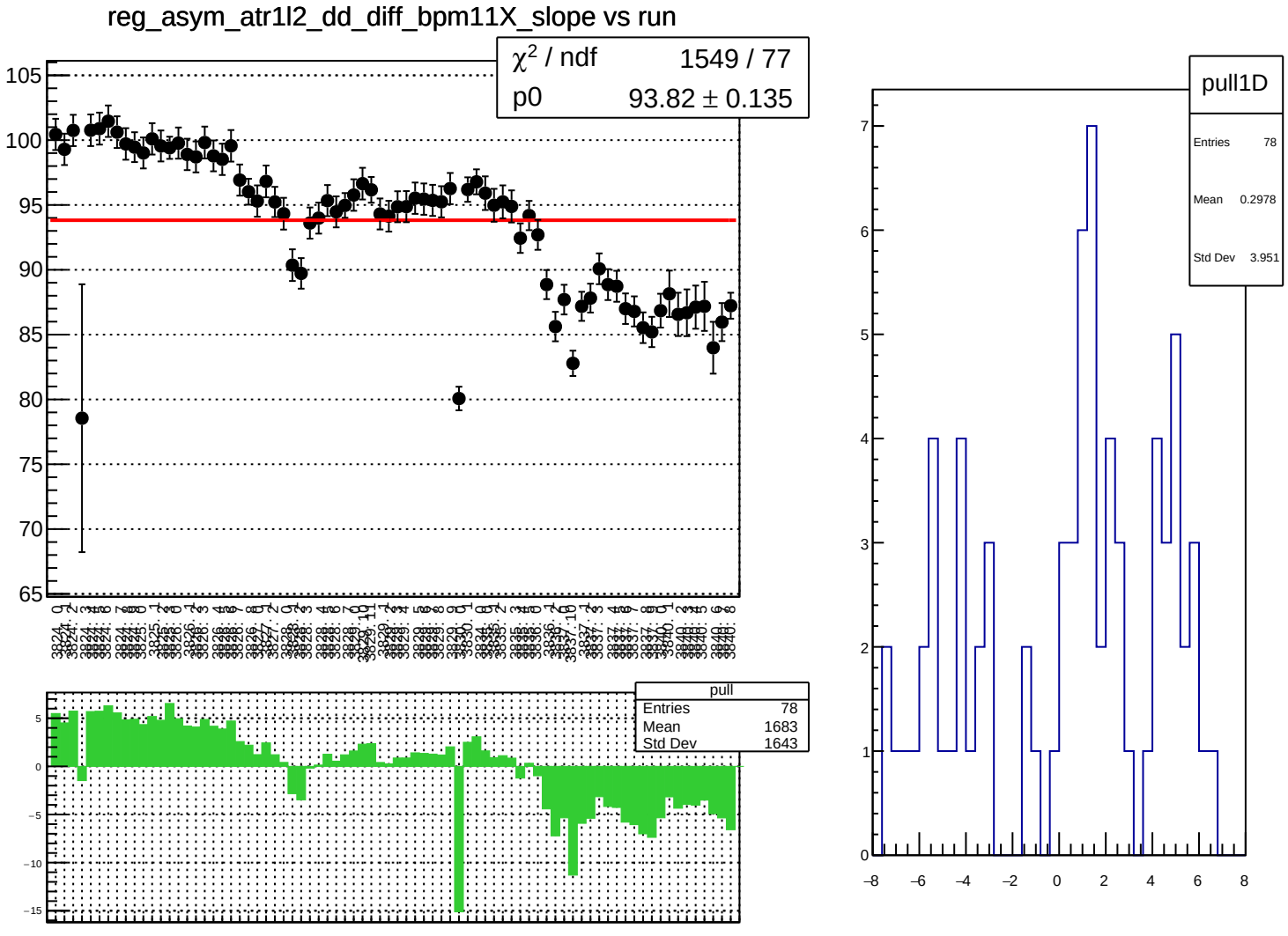

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 34.93 / 77
p0 20.93 ± 0.6186
pull
Entries 78
Mean 135.8
Std Dev 86.01
pull1D
Entries 78
Mean −0.06244
Std Dev 0.6663

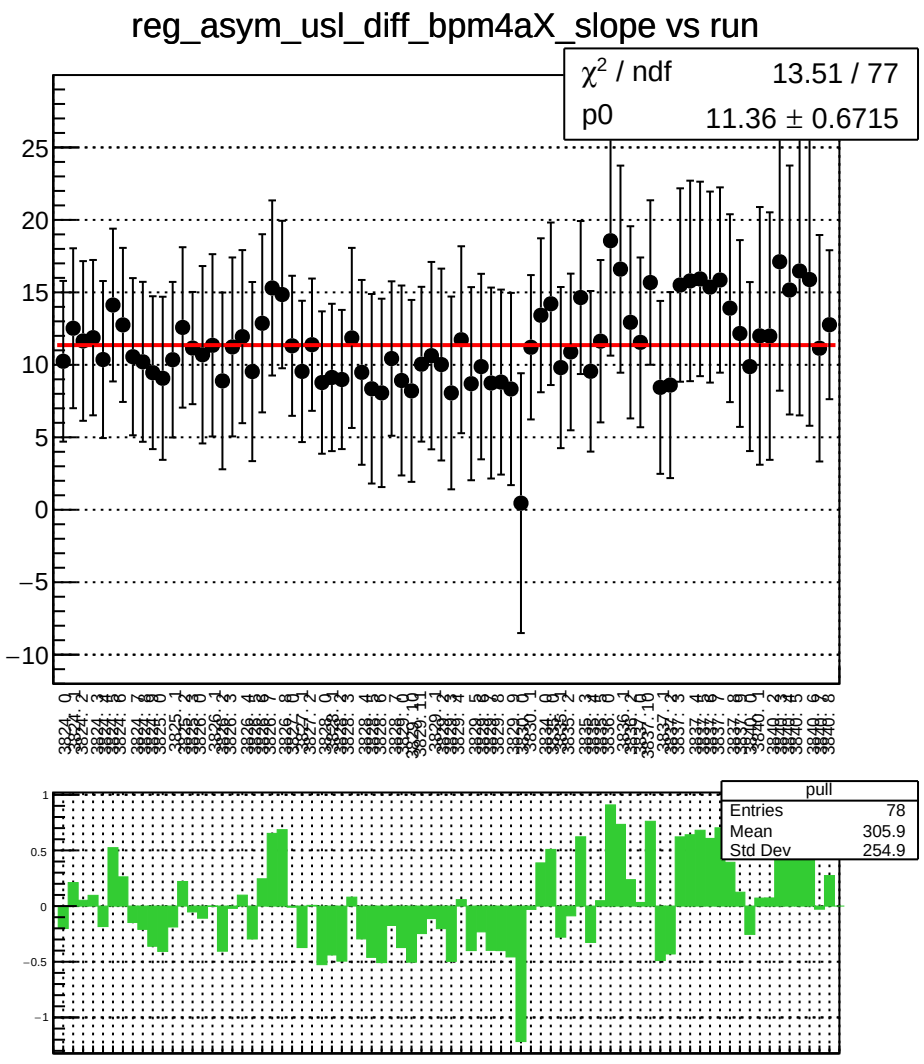

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 70.28 / 77
p0 −5.811 ± 0.4626
pull
Entries 78
Mean 151.4
Std Dev 102.4
pull1D
Entries 78
Mean 0.08542
Std Dev 0.9454

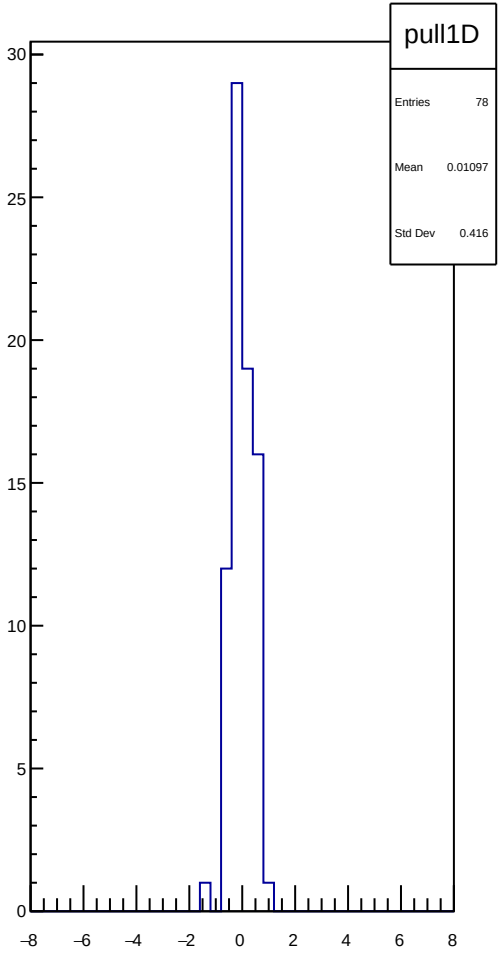

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 542.5 / 77
p0 10.31 ± 0.1069
pull
Entries 78
Mean 209.6
Std Dev 166.3
pull1D
Entries 78
Mean −0.2906
Std Dev 2.621

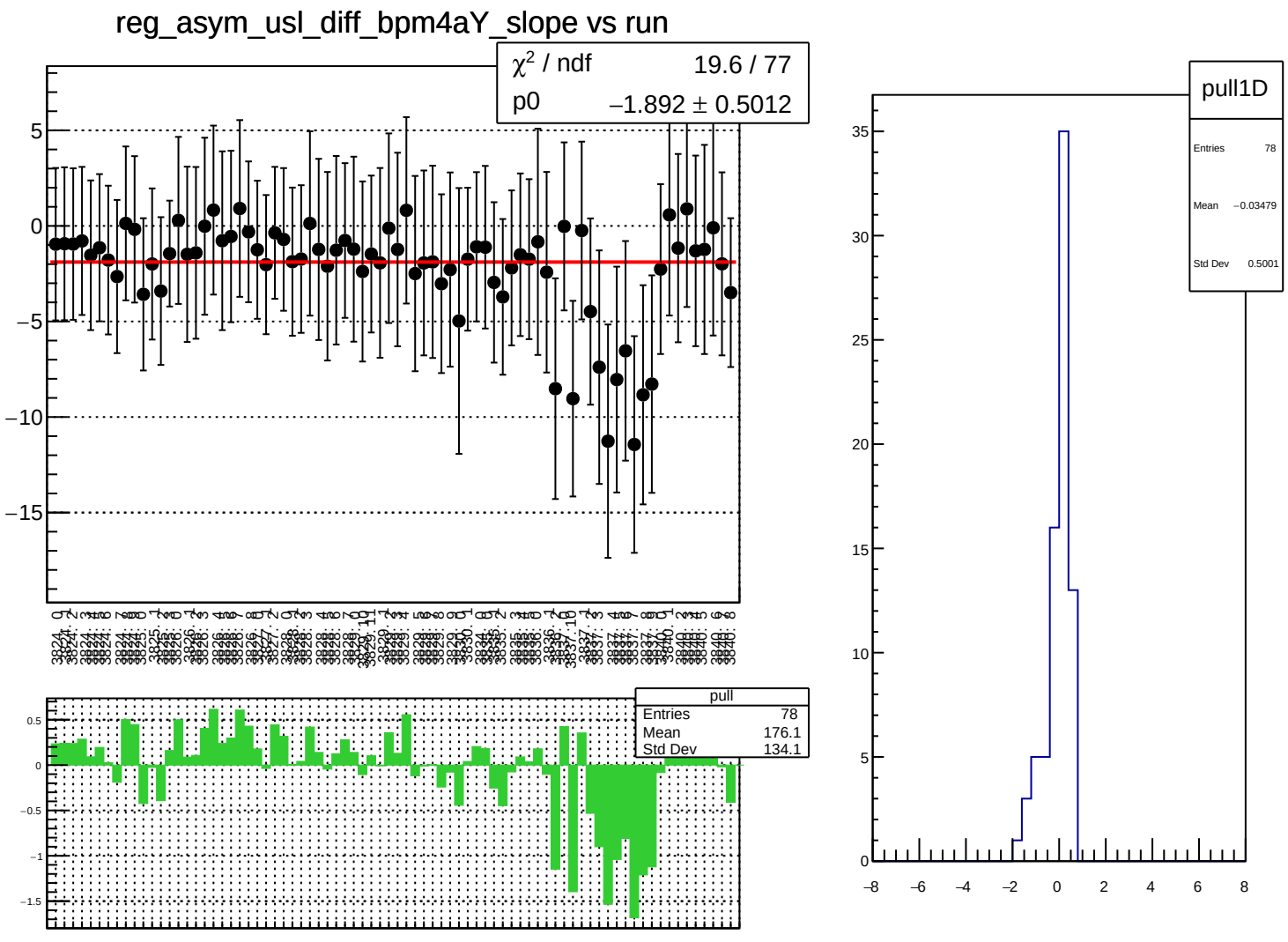

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.44 / 77
p0 −19.48 ± 0.7224
pull
Entries 78
Mean 175.8
Std Dev 112.1

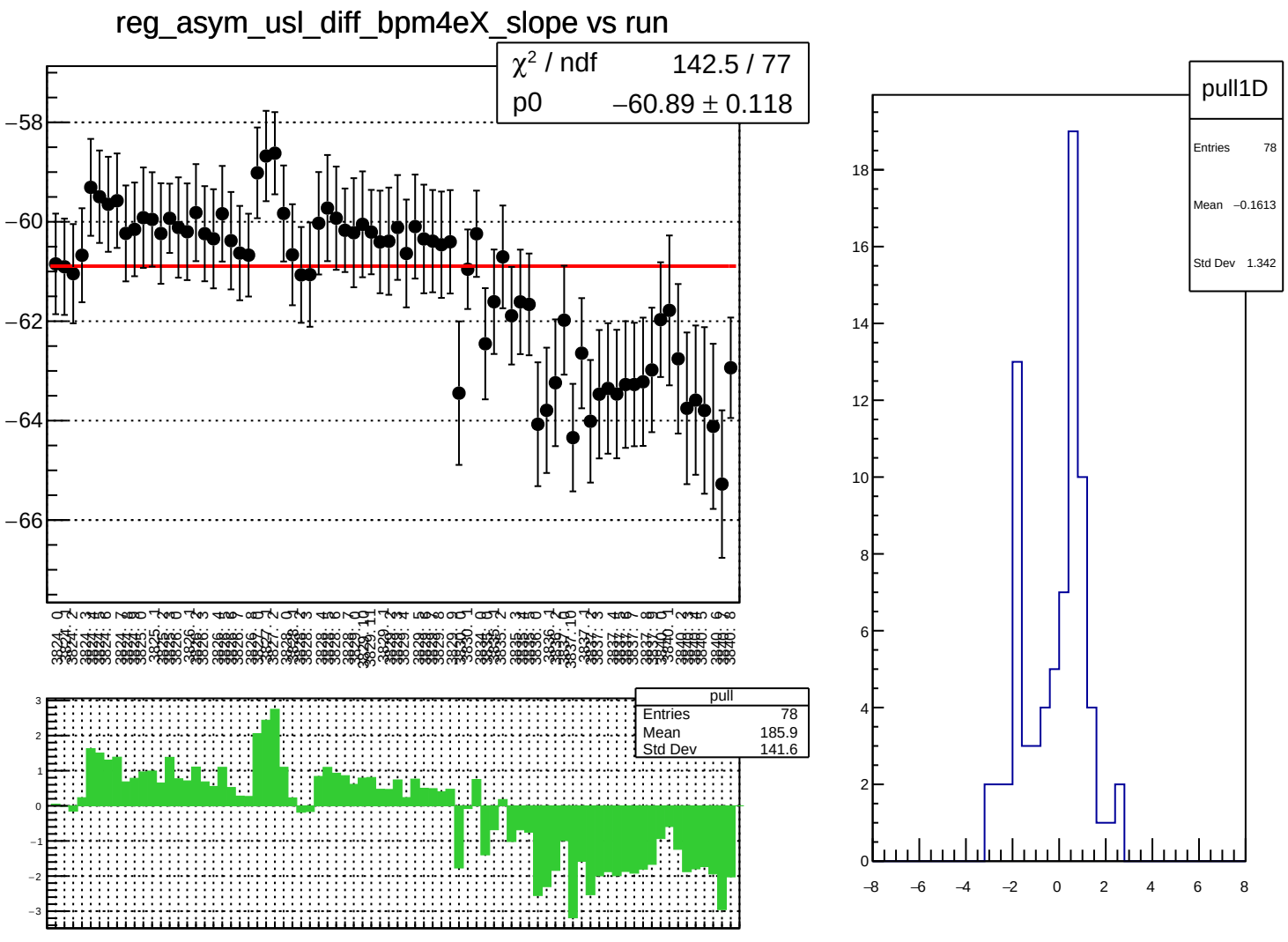

pull1D
Entries 78
Mean −0.01717
Std Dev 0.6245

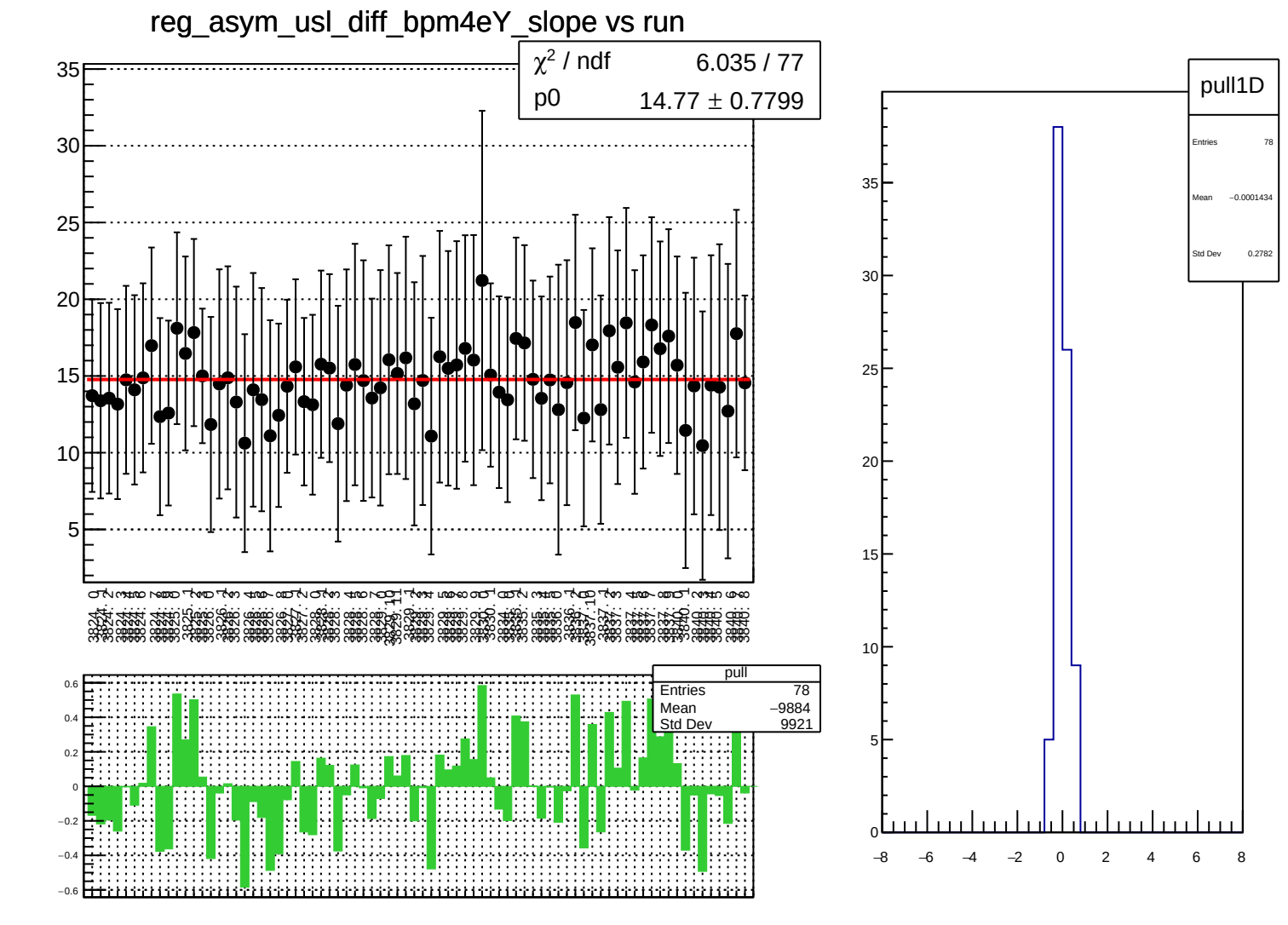

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 1549 / 77
p0 93.82 ± 0.135
pull
Entries 78
Mean 1683
Std Dev 1643
pull1D
Entries 78
Mean 0.2978
Std Dev 3.951

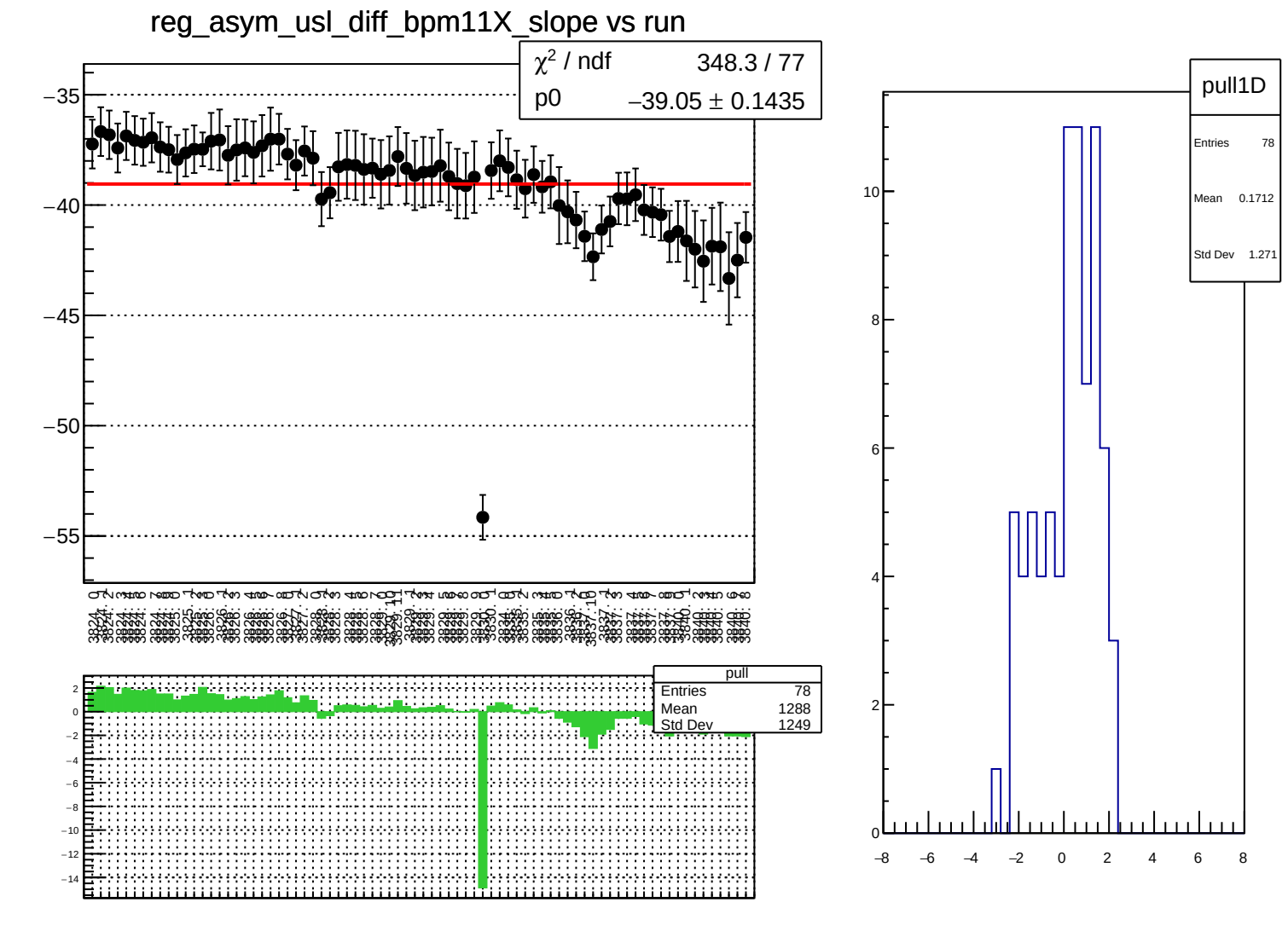

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 13.51 / 77
p0 11.36 ± 0.6715
pull
Entries 78
Mean 305.9
Std Dev 254.9

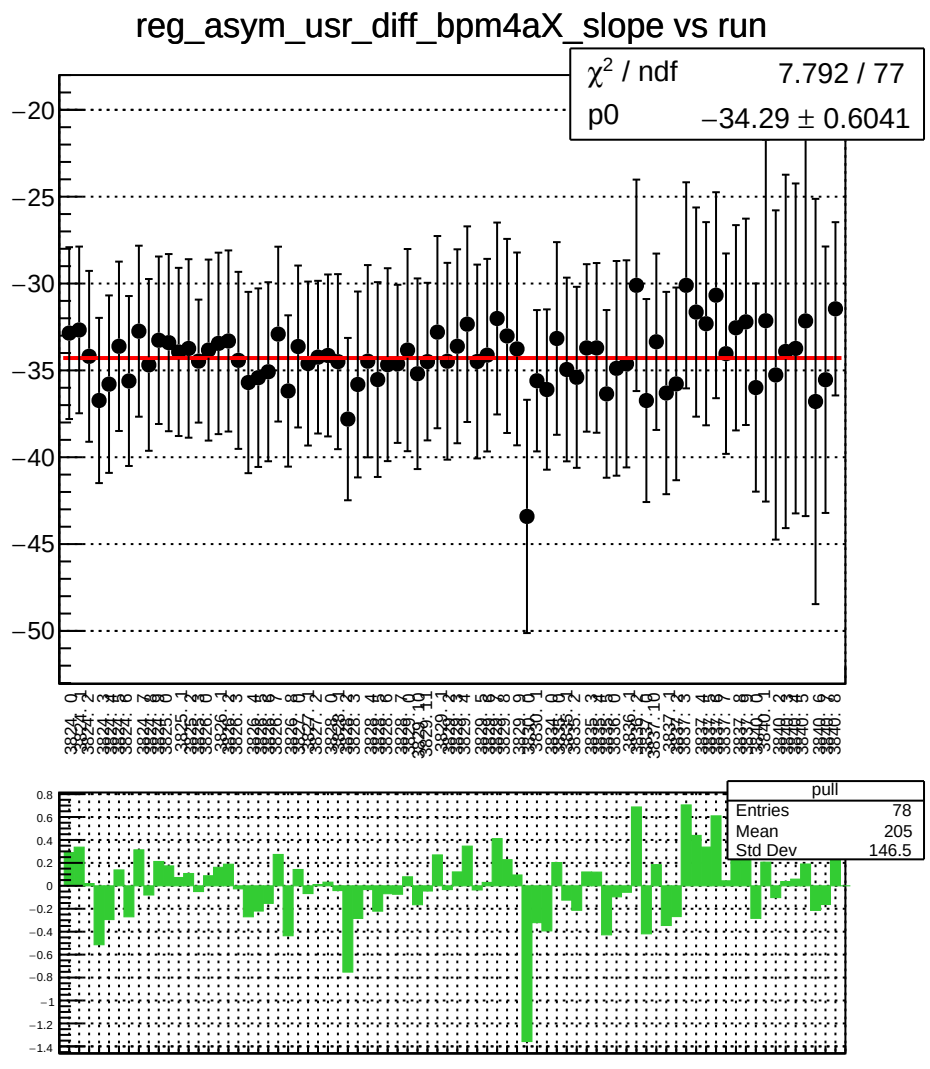

pull1D
Entries 78
Mean 0.01097
Std Dev 0.416

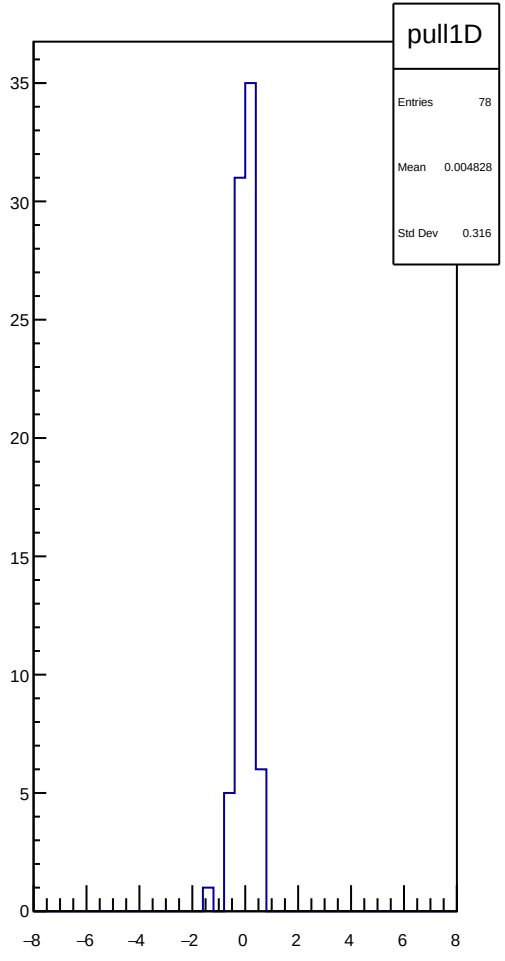

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 19.6 / 77
p0 −1.892 ± 0.5012
pull
Entries 78
Mean 176.1
Std Dev 134.1
pull1D
Entries 78
Mean −0.03479
Std Dev 0.5001

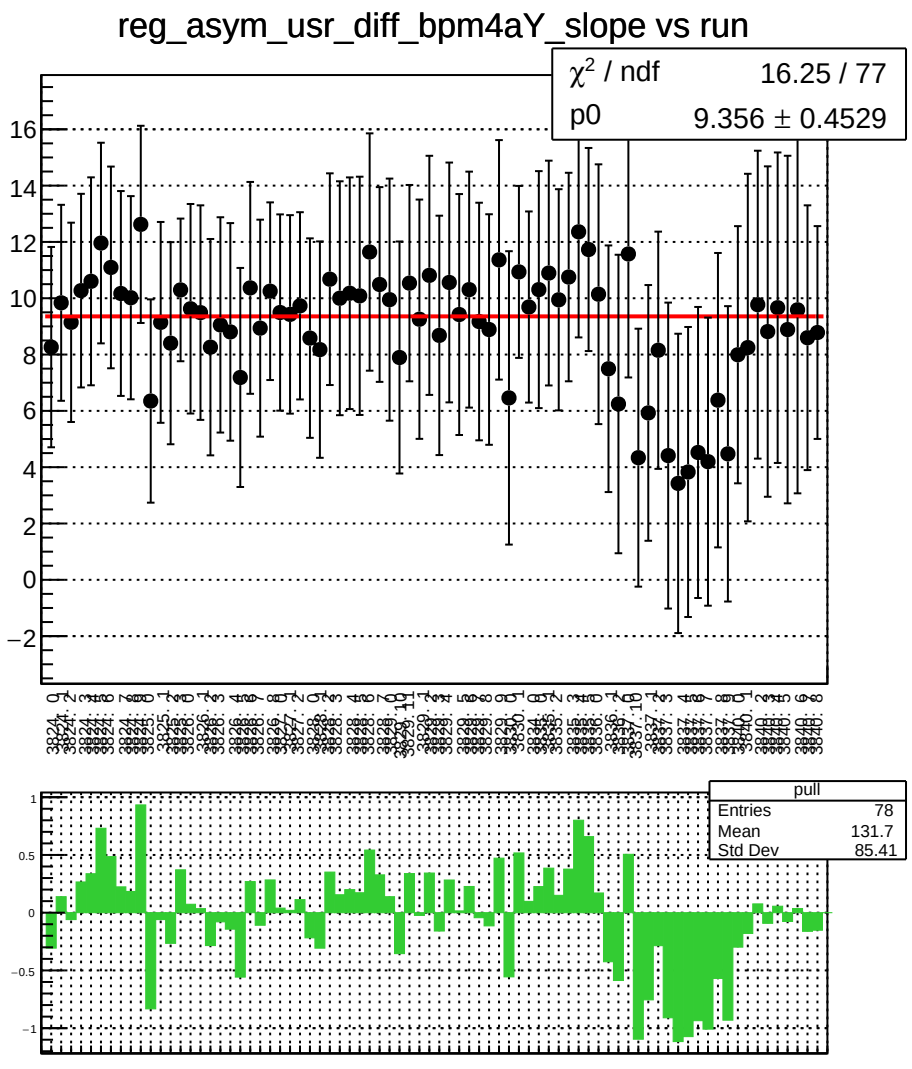

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 142.5 / 77
p0 −60.89 ± 0.118
pull
Entries 78
Mean 185.9
Std Dev 141.6
pull1D
Entries 78
Mean −0.1613
Std Dev 1.342

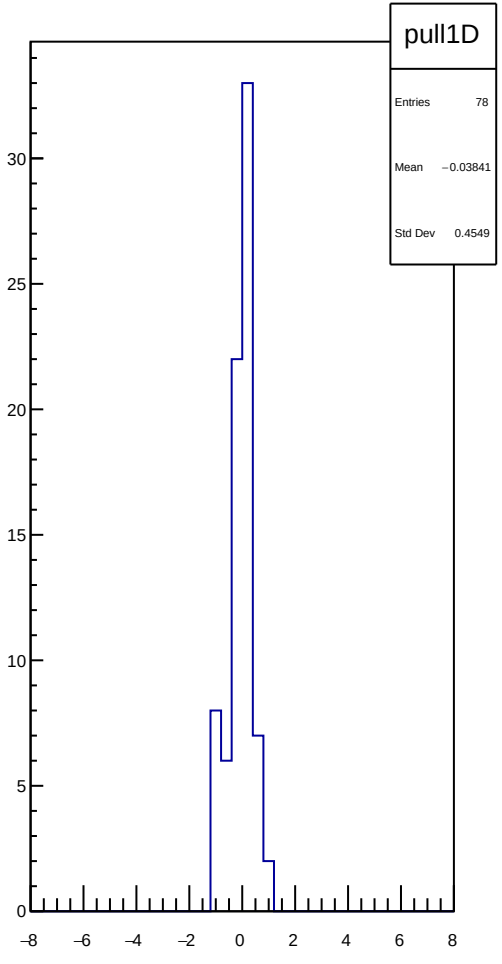

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 6.035 / 77
p0 14.77 ± 0.7799
pull
Entries 78
Mean −9884
Std Dev 9921
pull1D
Entries 78
Mean −0.0001434
Std Dev 0.2782

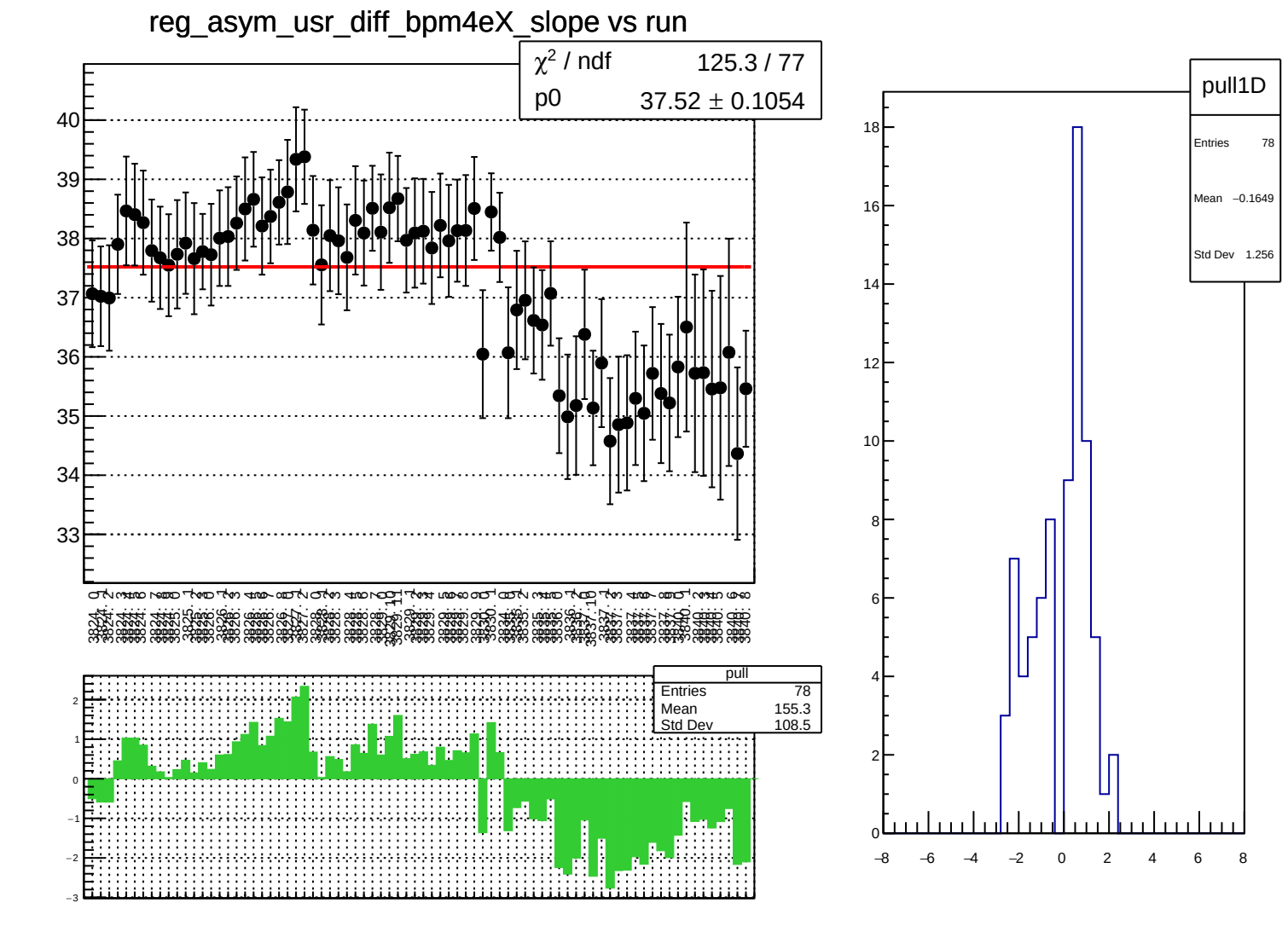

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 348.3 / 77
p0 −39.05 ± 0.1435
−35
−40
−45
−50
−55
pull
Entries 78
Mean 1288
Std Dev 1249
pull1D
Entries 78
Mean 0.1712
Std Dev 1.271

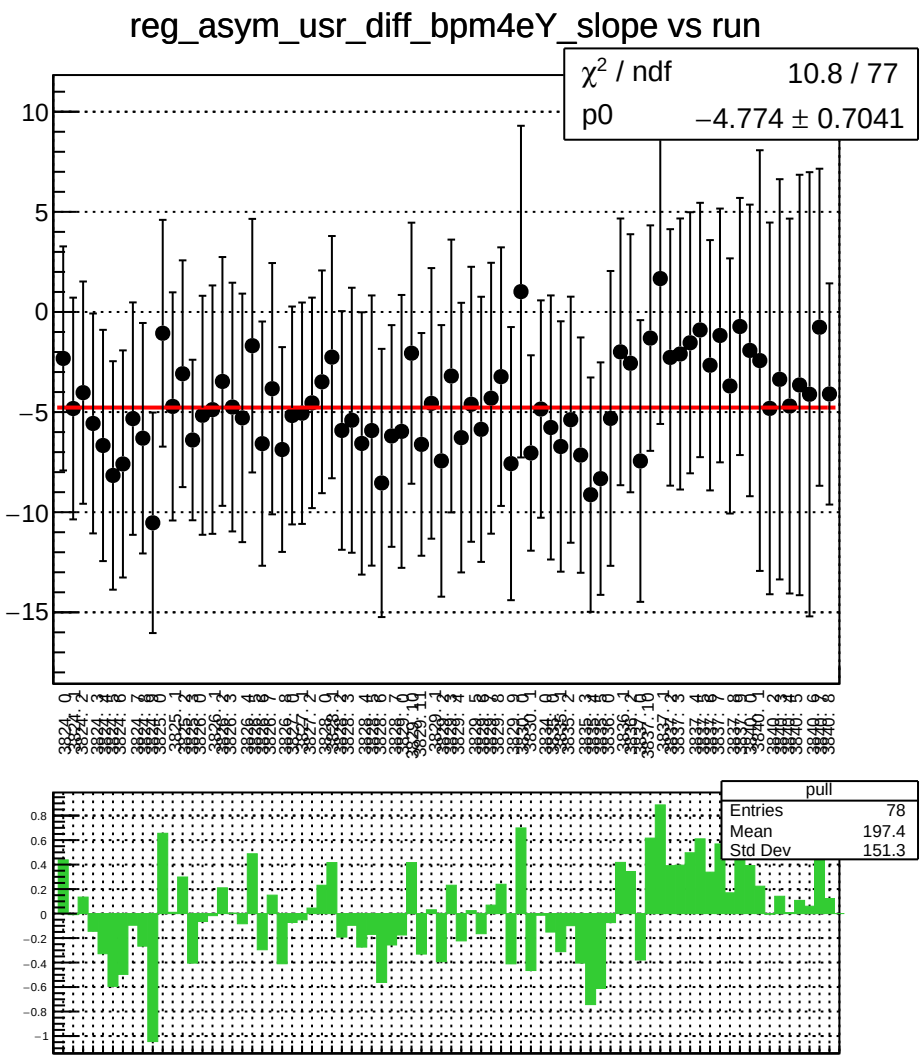

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 7.792 / 77
p0 −34.29 ± 0.6041
pull
Entries 78
Mean 205
Std Dev 146.5

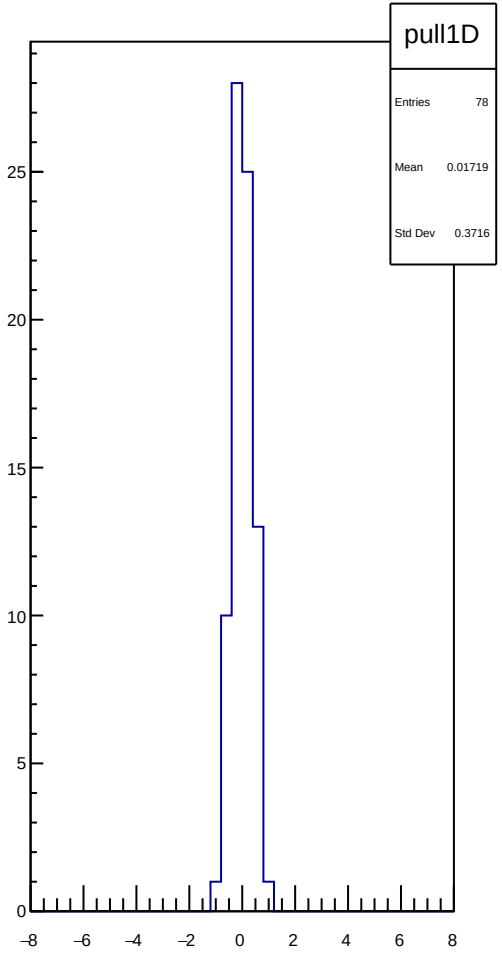

pull1D
Entries 78
Mean 0.004828
Std Dev 0.316

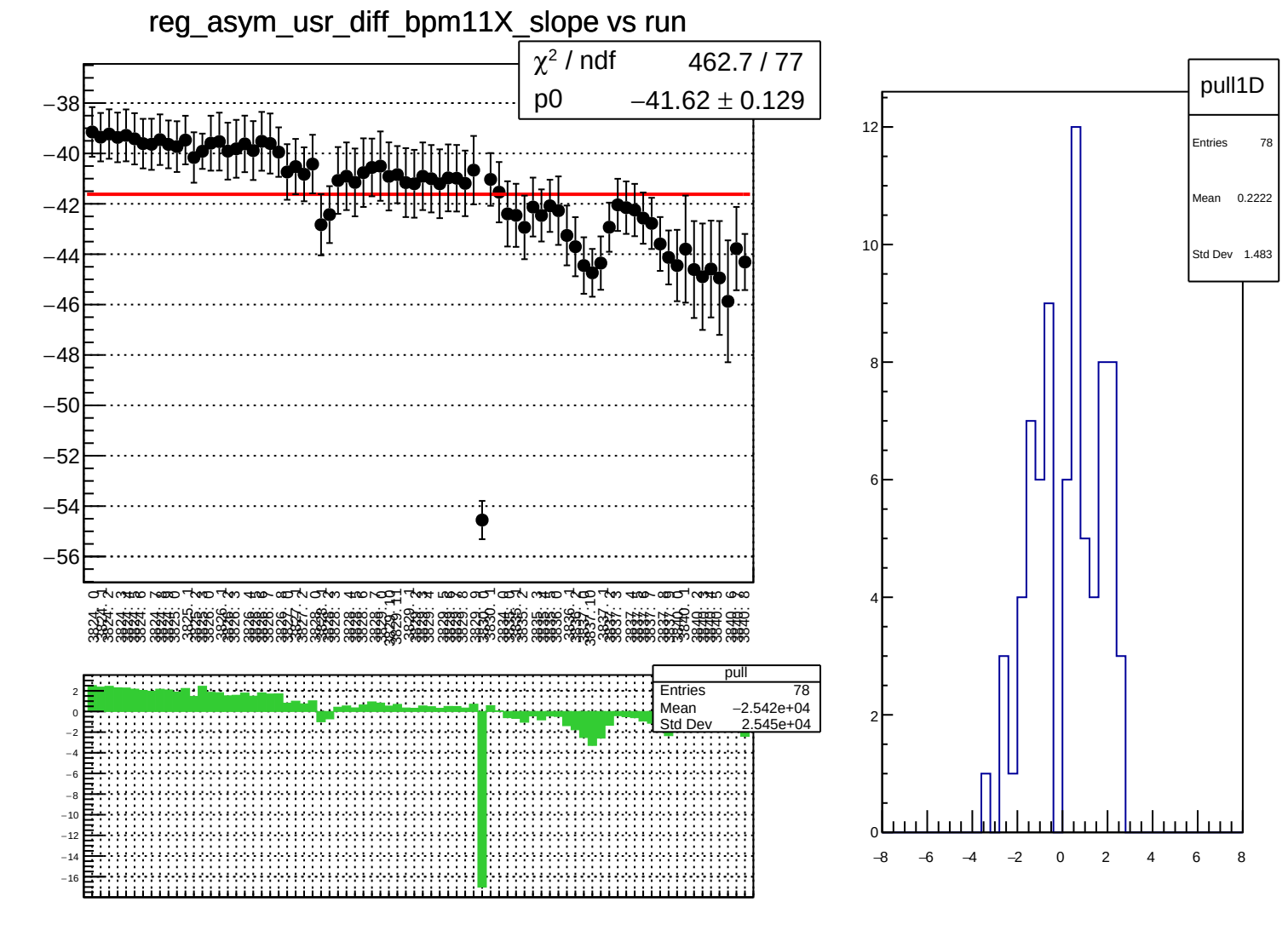

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 16.25 / 77
p0 9.356 ± 0.4529
pull
Entries 78
Mean 131.7
Std Dev 85.41

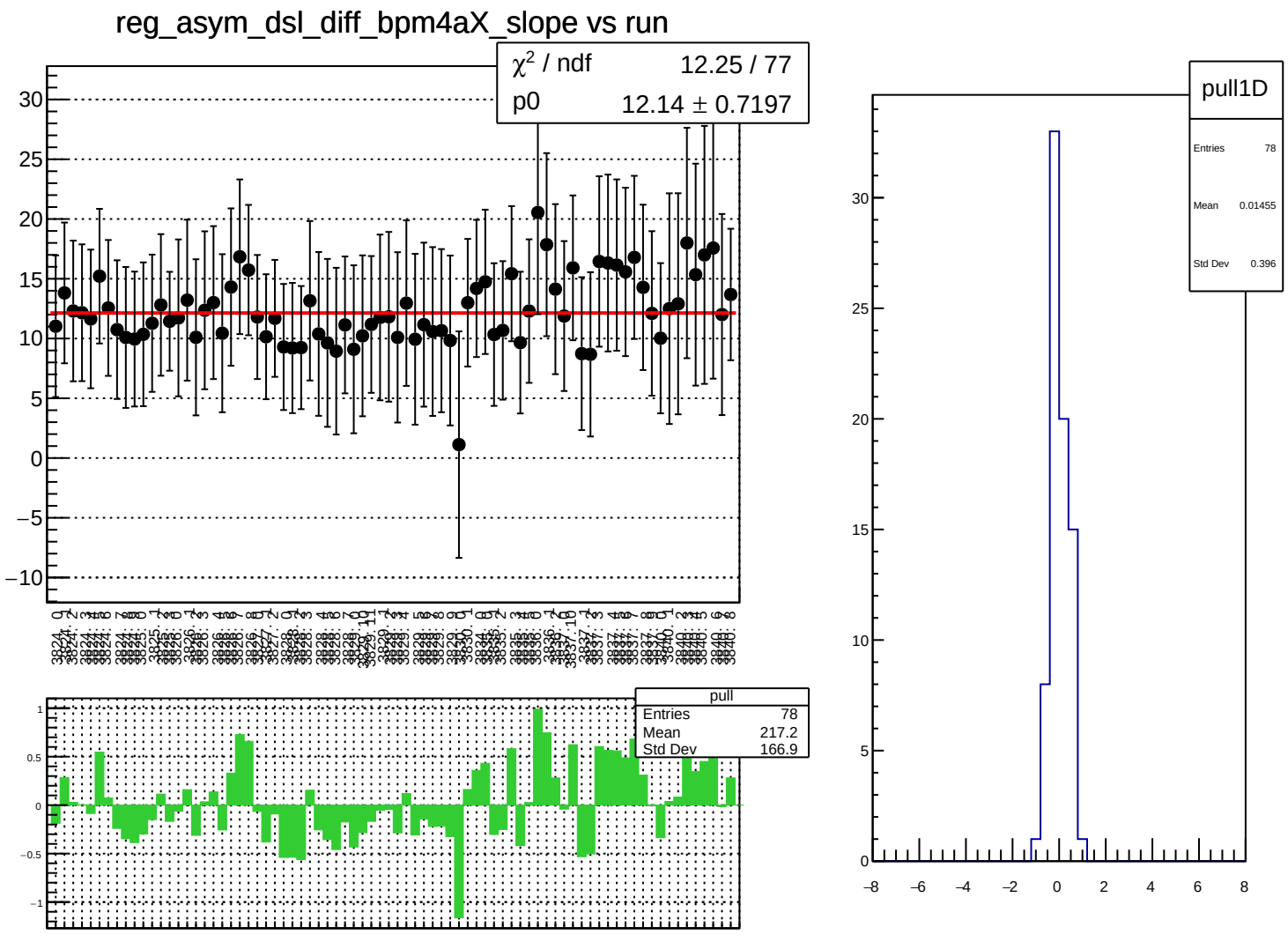

pull1D
Entries 78
Mean −0.03841
Std Dev 0.4549

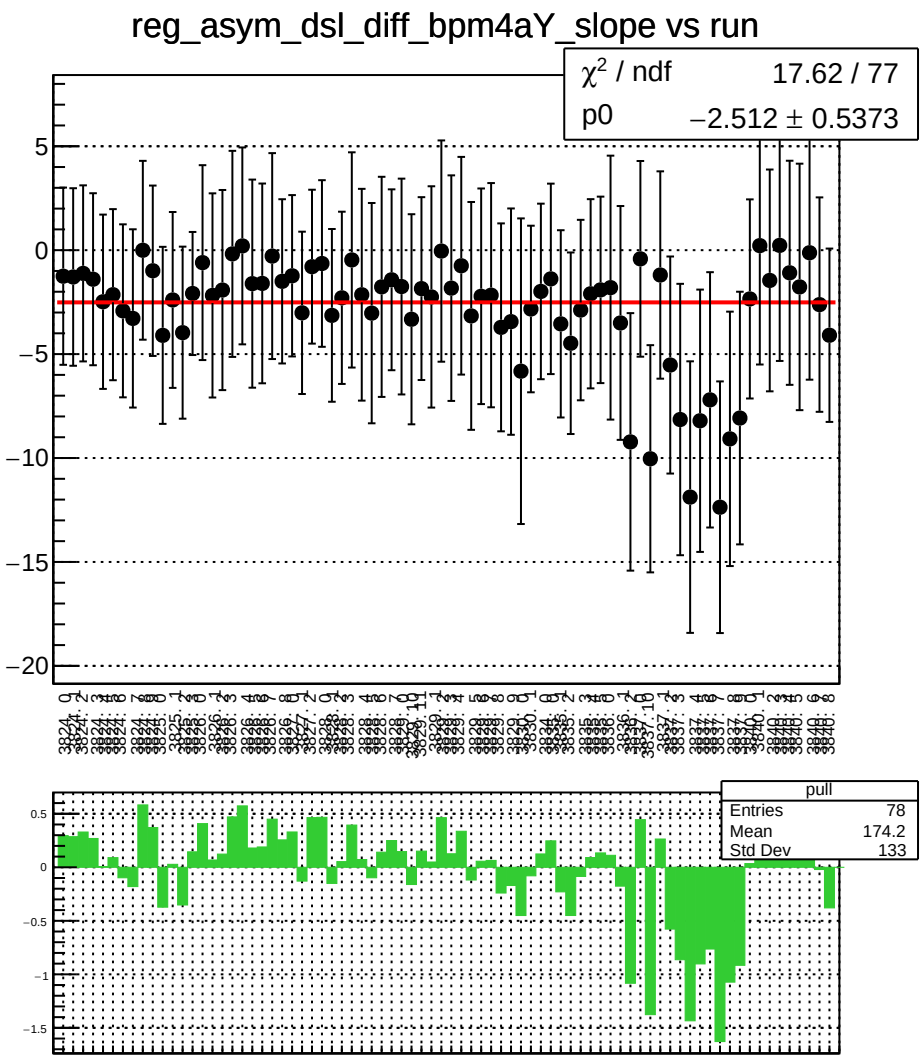

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 125.3 / 77
p0 37.52 ± 0.1054
pull
Entries 78
Mean 155.3
Std Dev 108.5
pull1D
Entries 78
Mean −0.1649
Std Dev 1.256

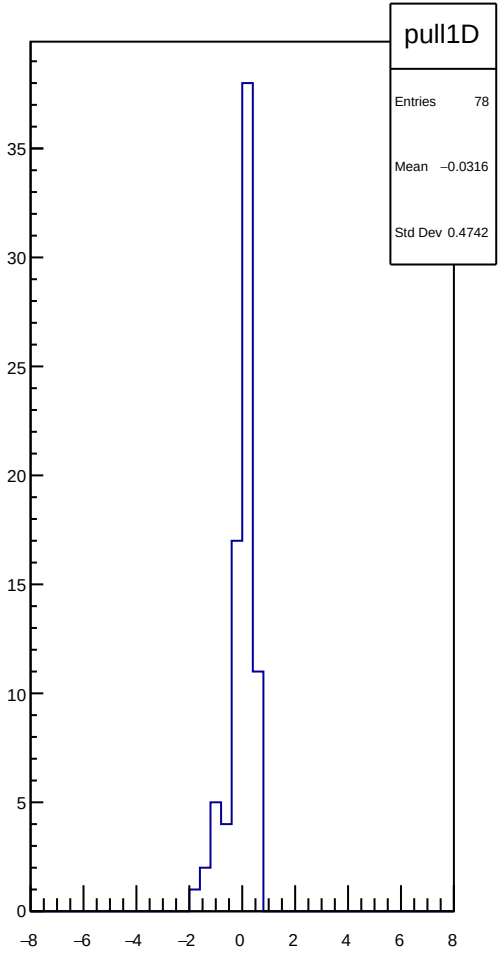

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 10.8 / 77
p0 −4.774 ± 0.7041
pull
Entries 78
Mean 197.4
Std Dev 151.3

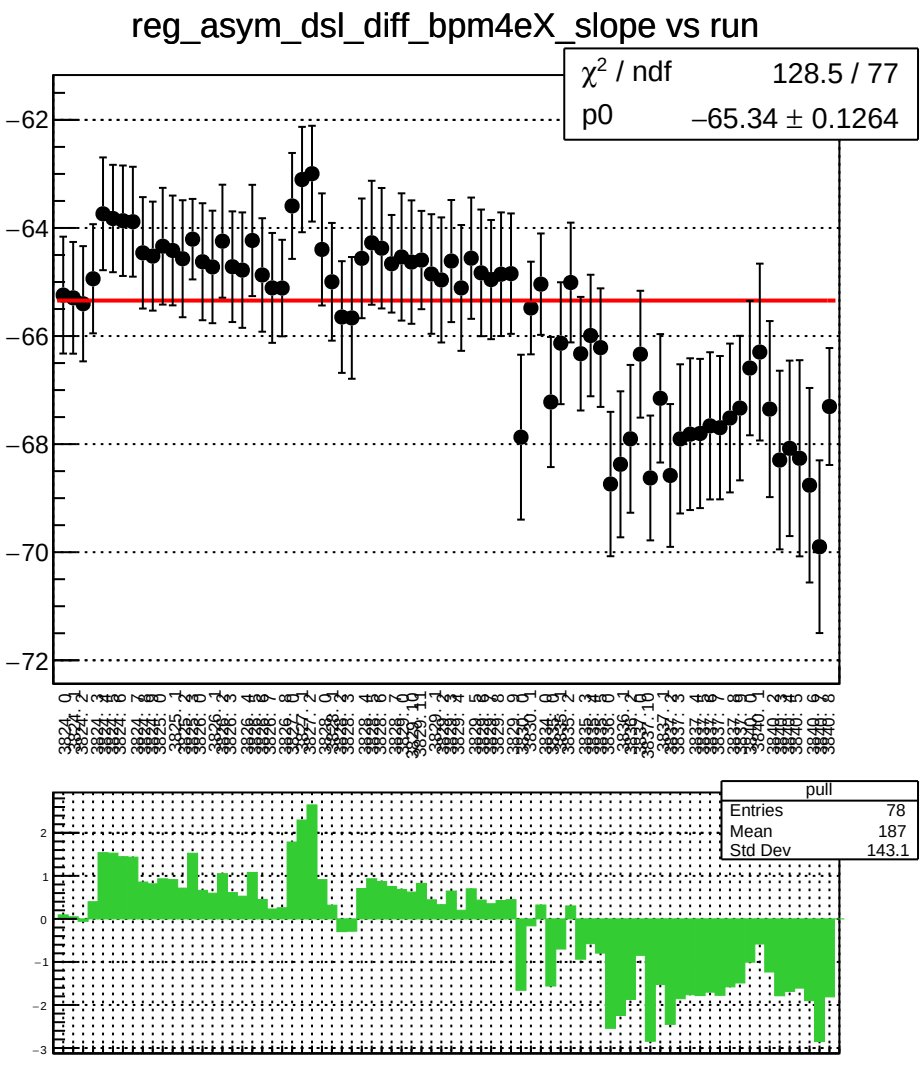

pull1D
Entries 78
Mean 0.01719
Std Dev 0.3716

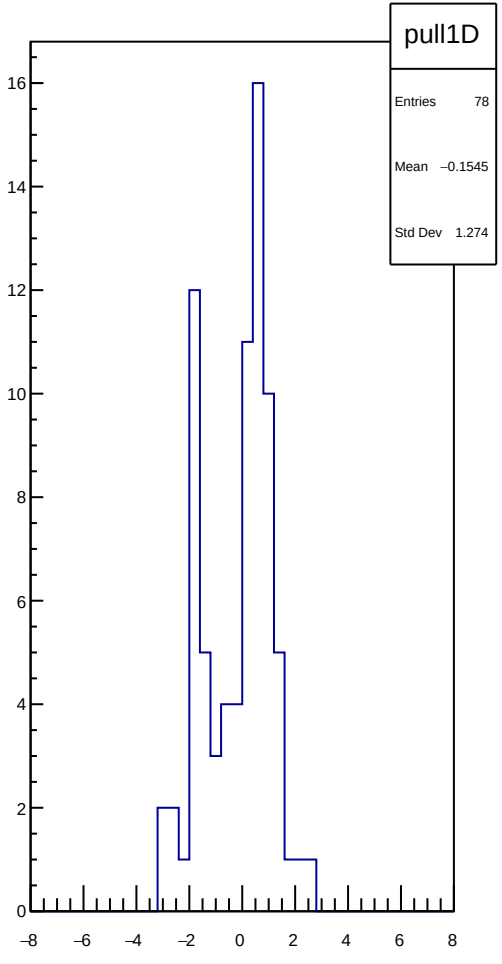

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 462.7 / 77
p0 −41.62 ± 0.129
pull
Entries 78
Mean −2.542e+04
Std Dev 2.545e+04
pull1D
Entries 78
Mean 0.2222
Std Dev 1.483

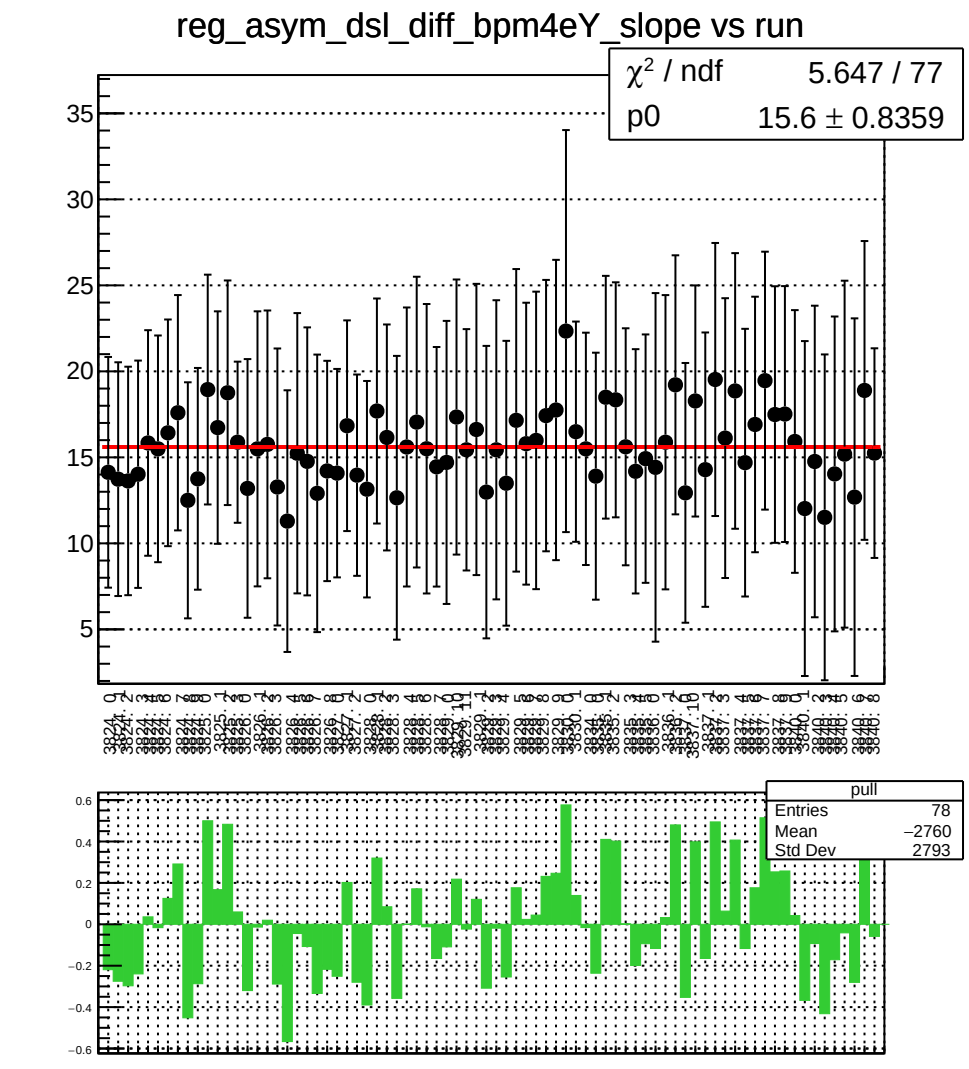

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 12.25 / 77
p0 12.14 ± 0.7197
pull
Entries 78
Mean 217.2
Std Dev 166.9
pull1D
Entries 78
Mean 0.01455
Std Dev 0.396

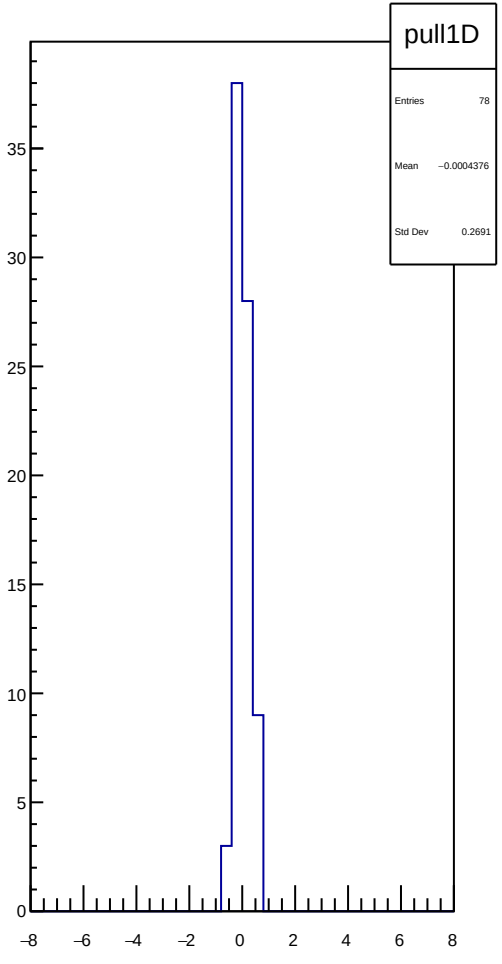

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 17.62 / 77
p0 −2.512 ± 0.5373
pull
Entries 78
Mean 174.2
Std Dev 133

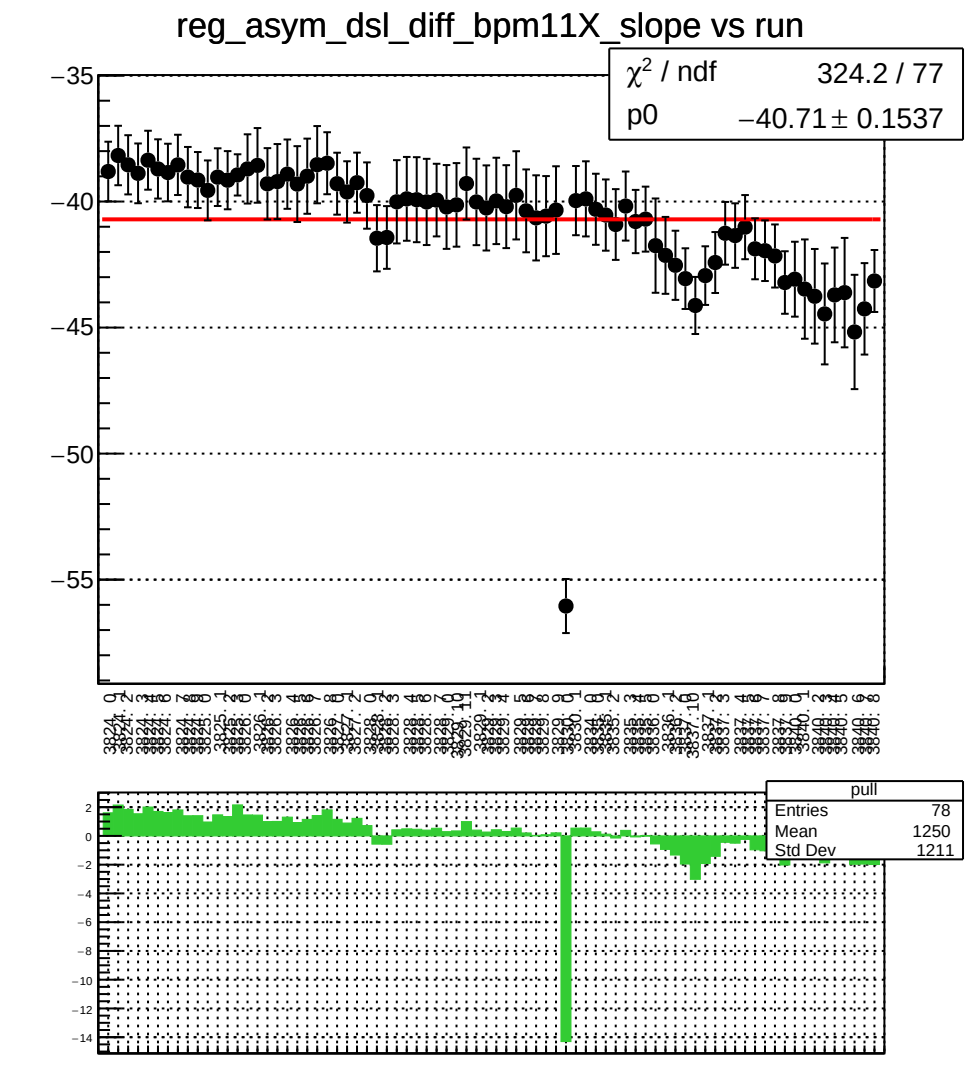

pull1D
Entries 78
Mean −0.0316
Std Dev 0.4742

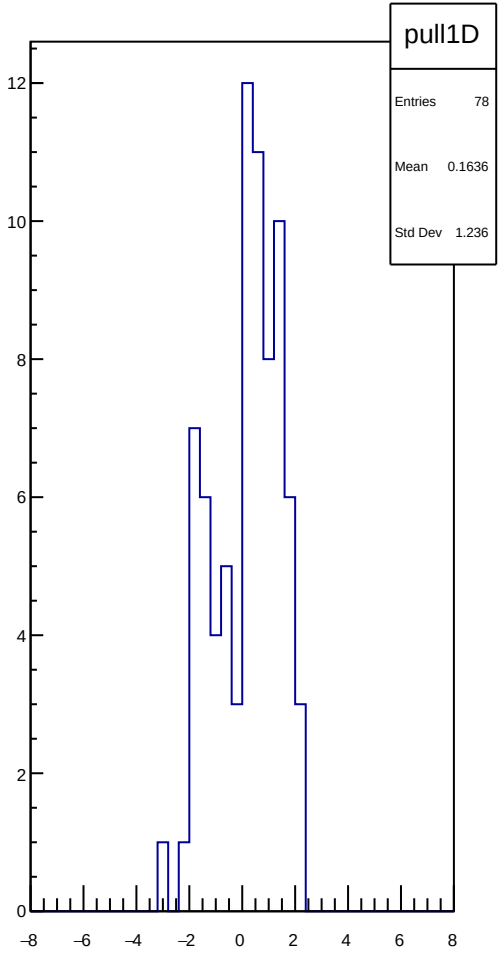

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 128.5 / 77
p0 −65.34 ± 0.1264
pull
Entries 78
Mean 187
Std Dev 143.1

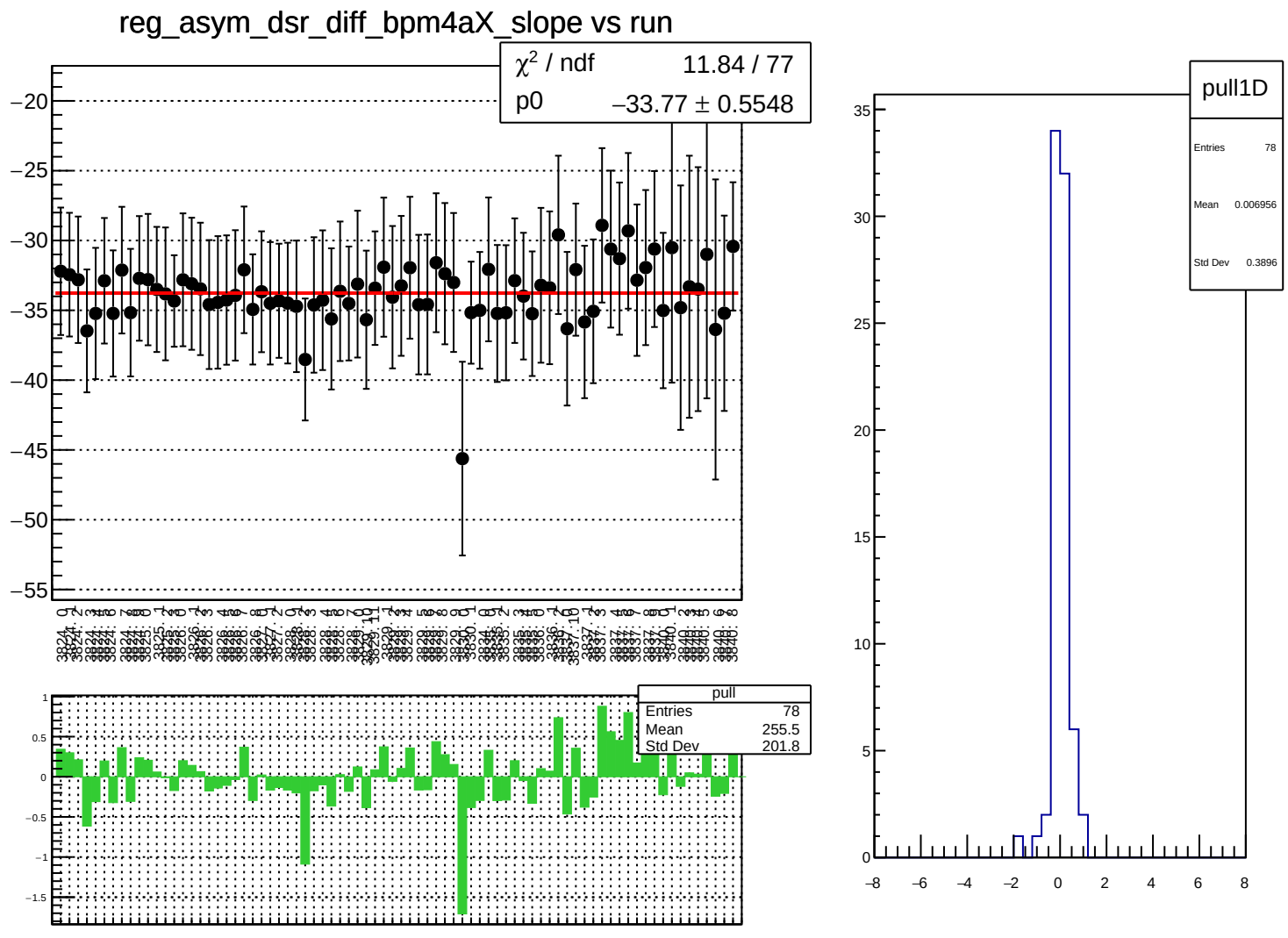

pull1D
Entries 78
Mean −0.1545
Std Dev 1.274

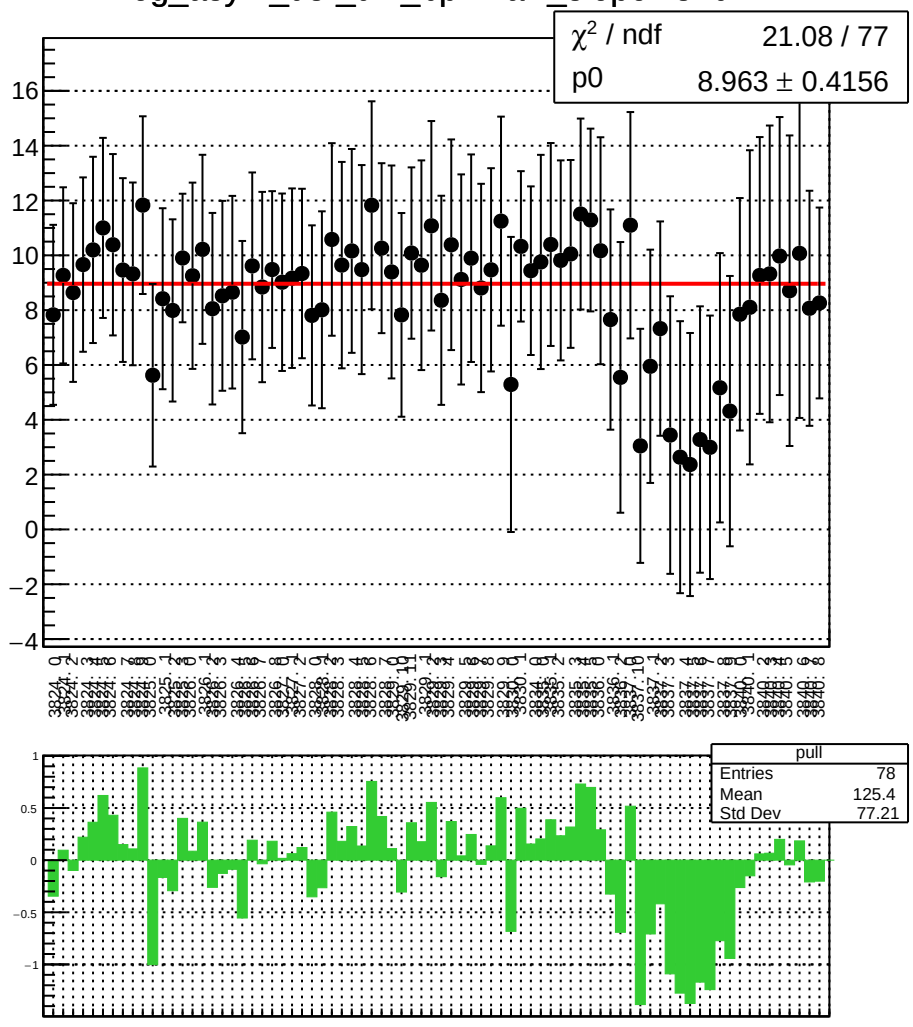

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 5.647 / 77
p0 15.6 ± 0.8359
pull
Entries 78
Mean −2760
Std Dev 2793

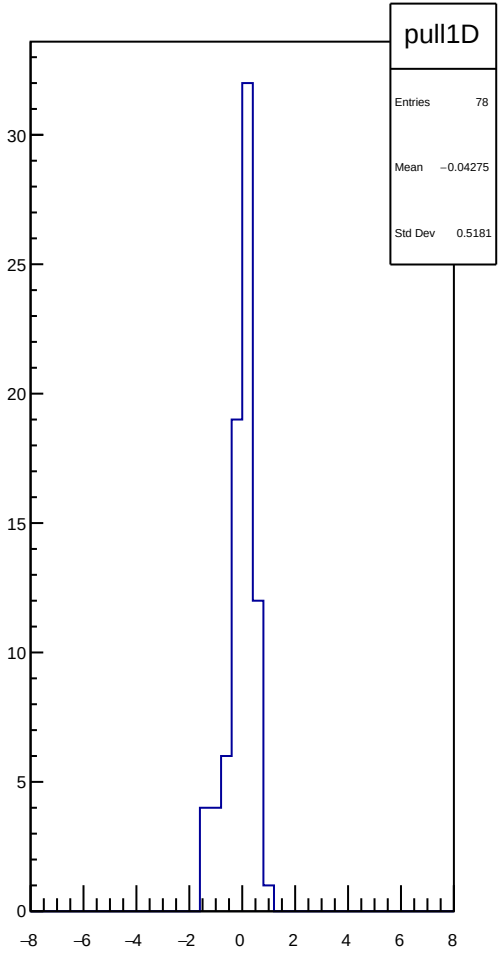

pull1D
Entries 78
Mean −0.0004376
Std Dev 0.2691

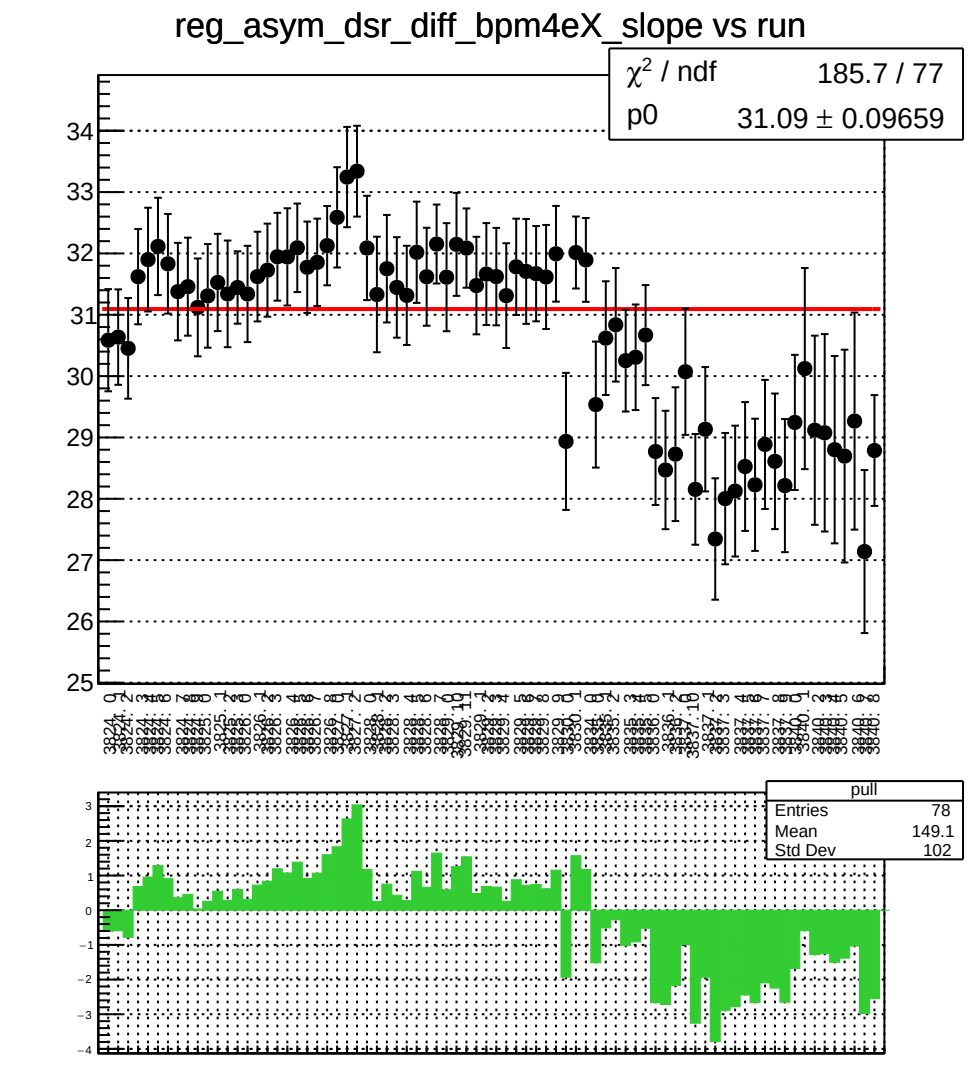

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 324.2 / 77
p0 −40.71 ± 0.1537
pull
Entries 78
Mean 1250
Std Dev 1211

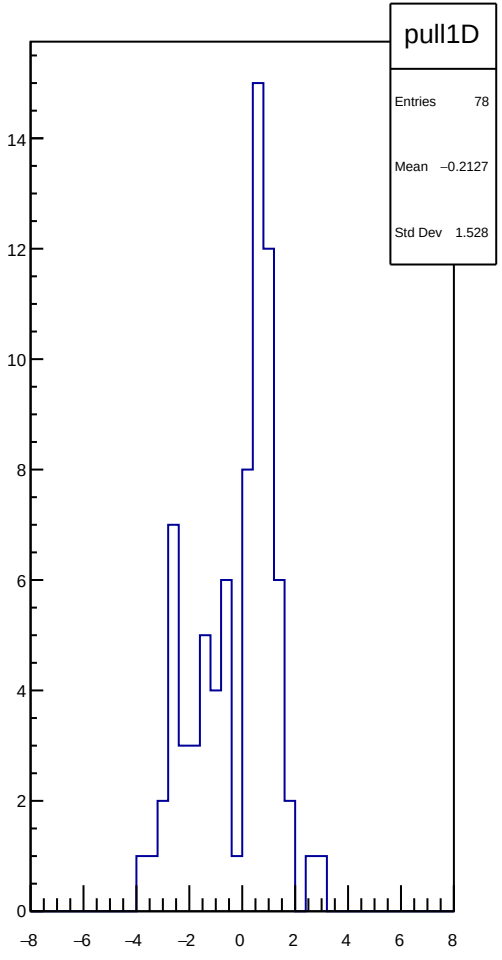

pull1D
Entries 78
Mean 0.1636
Std Dev 1.236

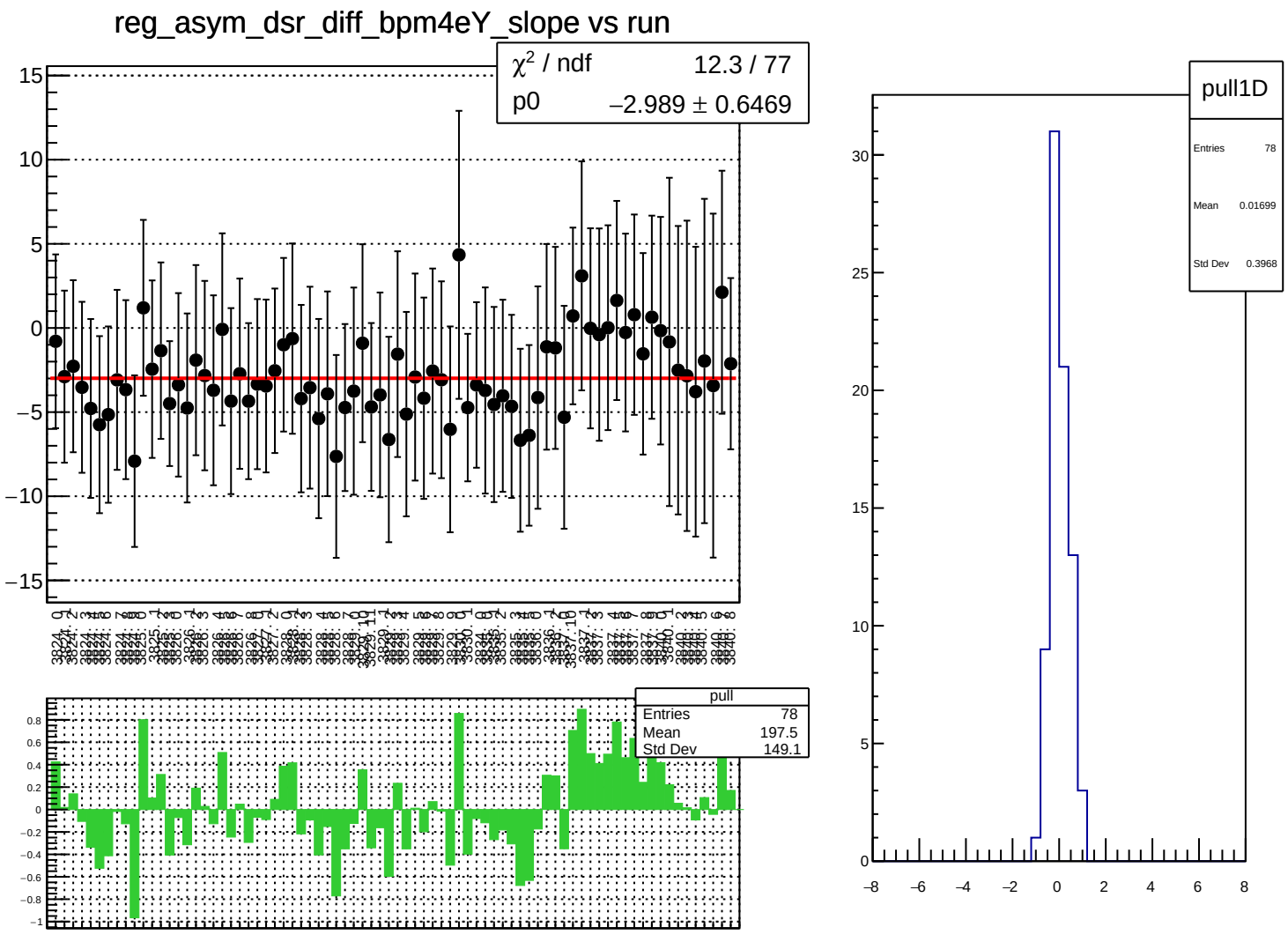

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 11.84 / 77
p0 −33.77 ± 0.5548
pull
Entries 78
Mean 255.5
Std Dev 201.8
pull1D
Entries 78
Mean 0.006956
Std Dev 0.3896

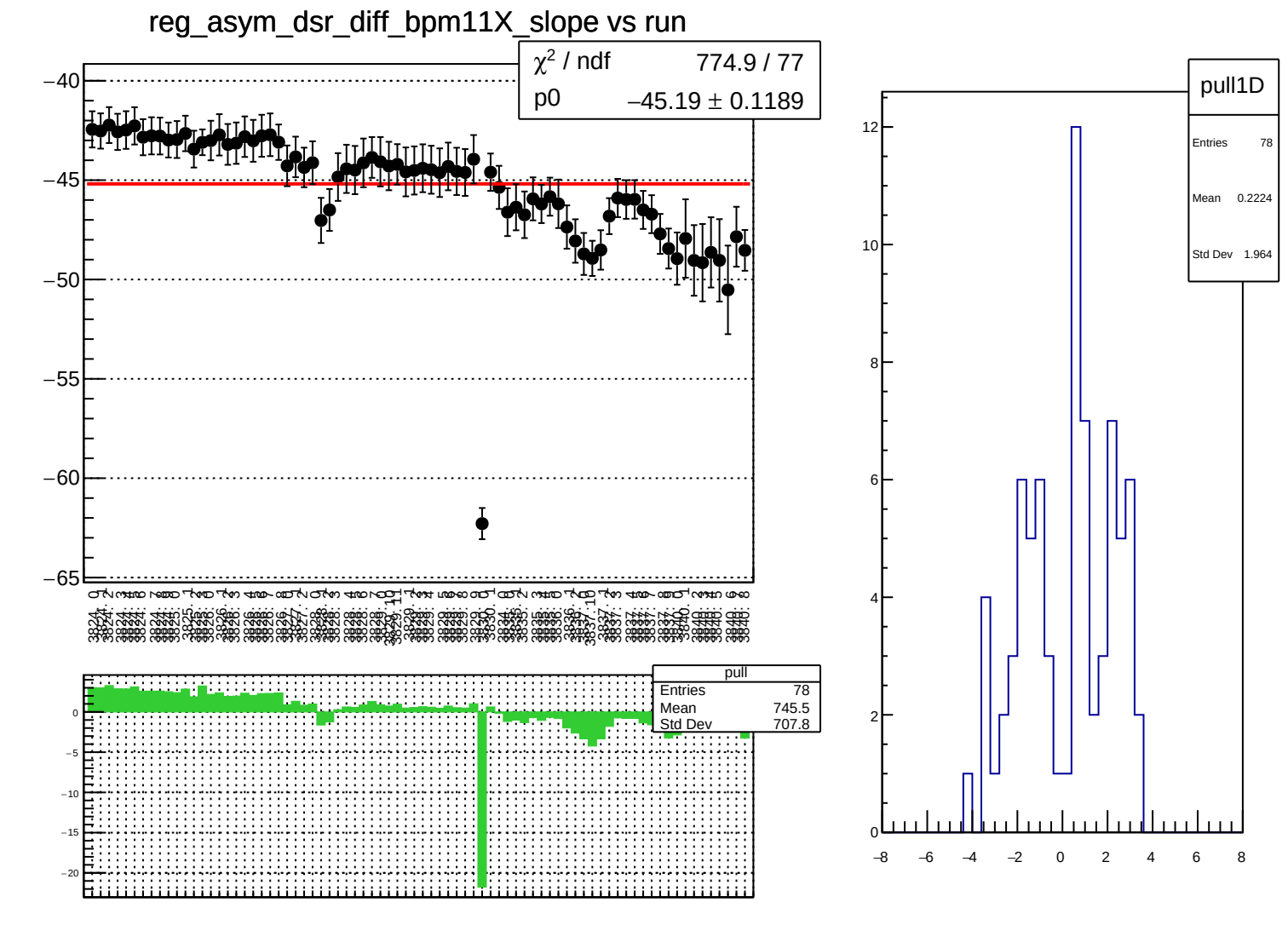

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 21.08 / 77
p0 8.963 ± 0.4156
pull
Entries 78
Mean 125.4
Std Dev 77.21

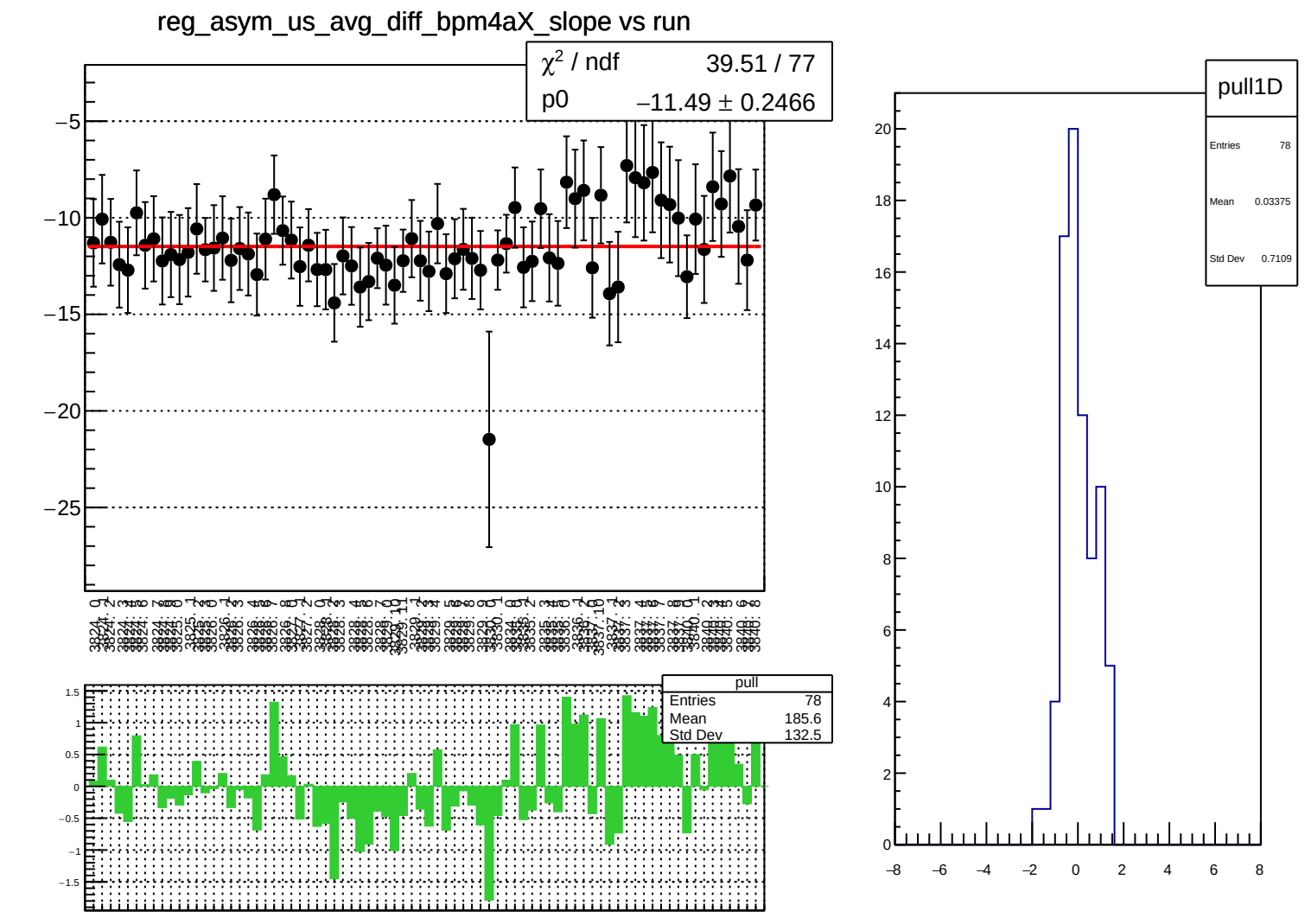

pull1D
Entries 78
Mean −0.04275
Std Dev 0.5181

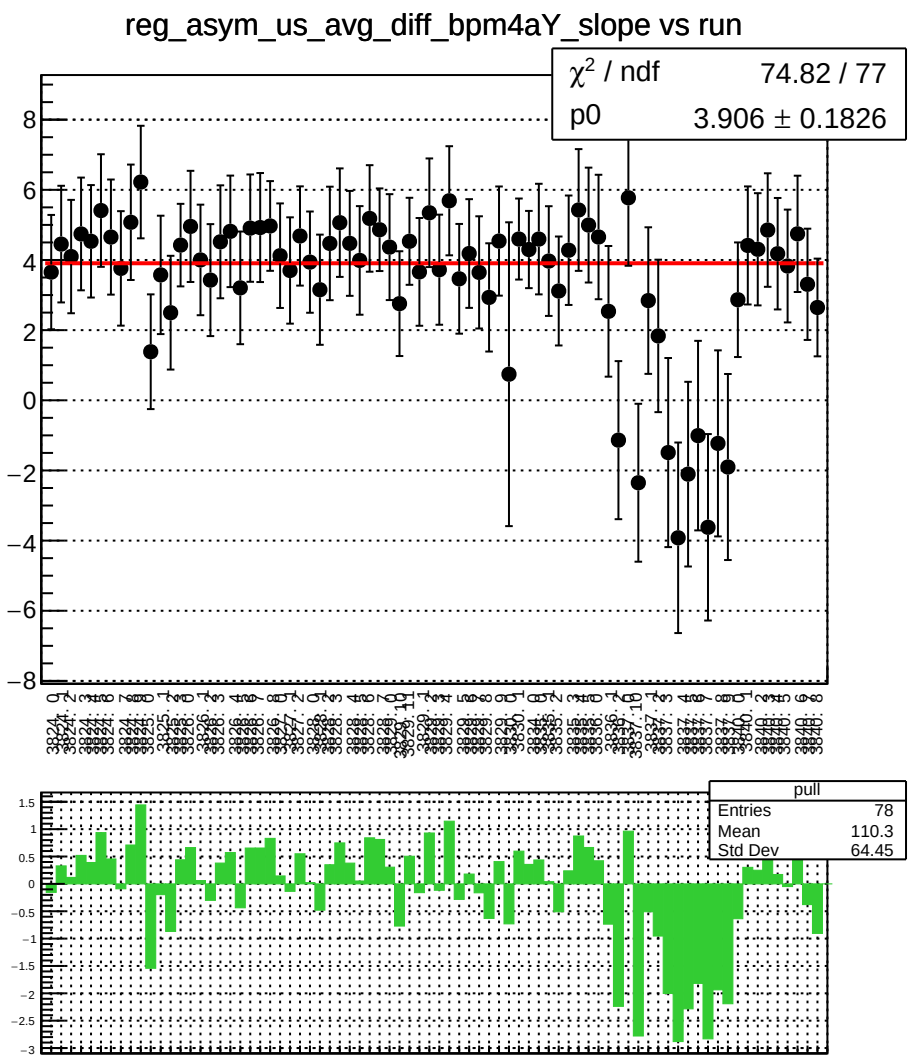

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 185.7 / 77
p0 31.09 ± 0.09659
pull
Entries 78
Mean 149.1
Std Dev 102

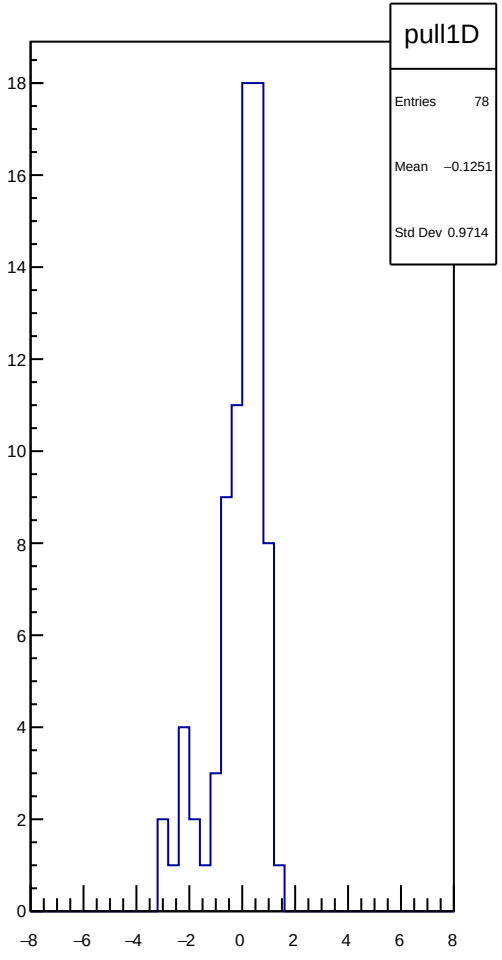

pull1D
Entries 78
Mean −0.2127
Std Dev 1.528

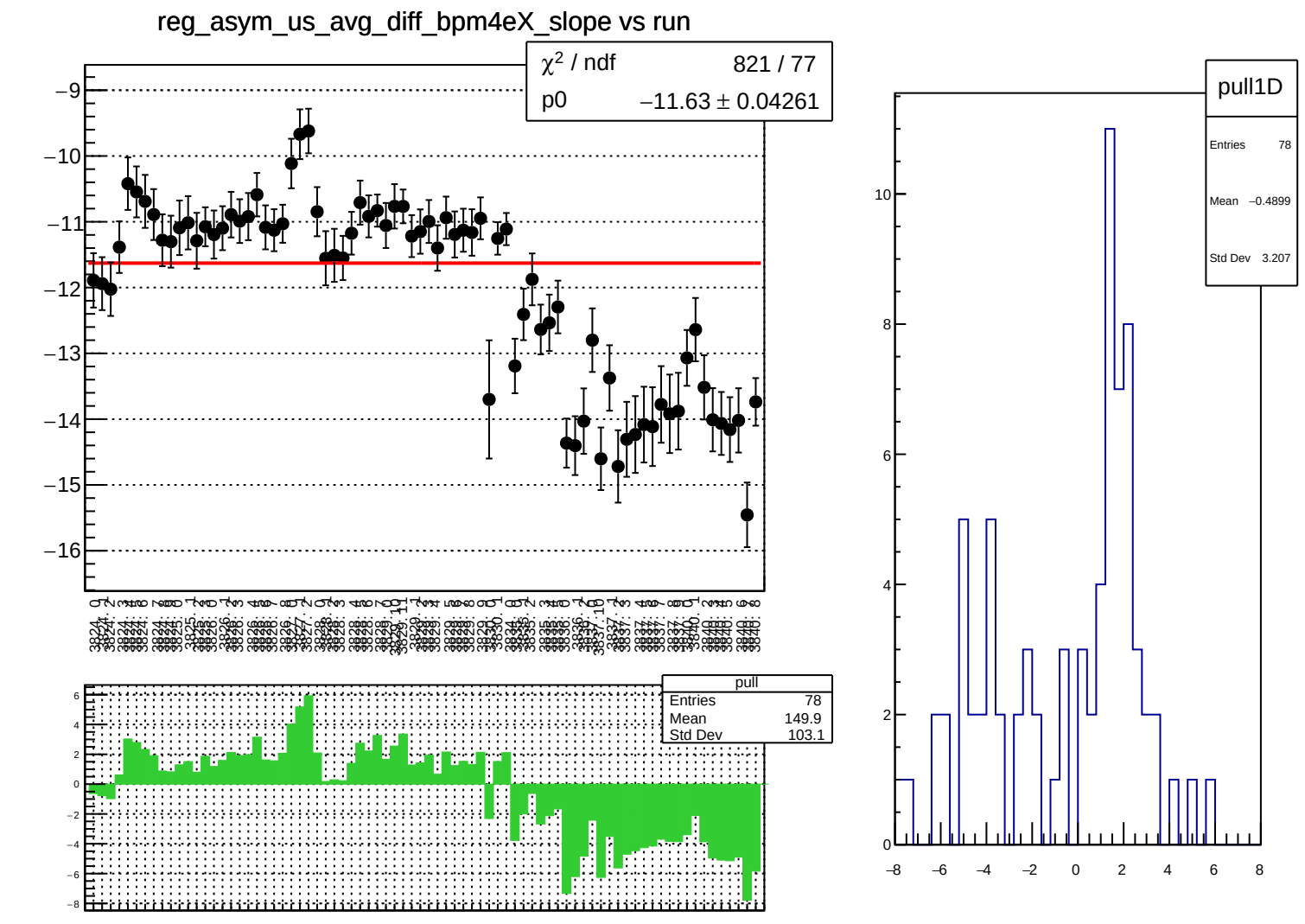

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 12.3 / 77
p0 −2.989 ± 0.6469
pull
Entries 78
Mean 197.5
Std Dev 149.1
pull1D
Entries 78
Mean 0.01699
Std Dev 0.3968

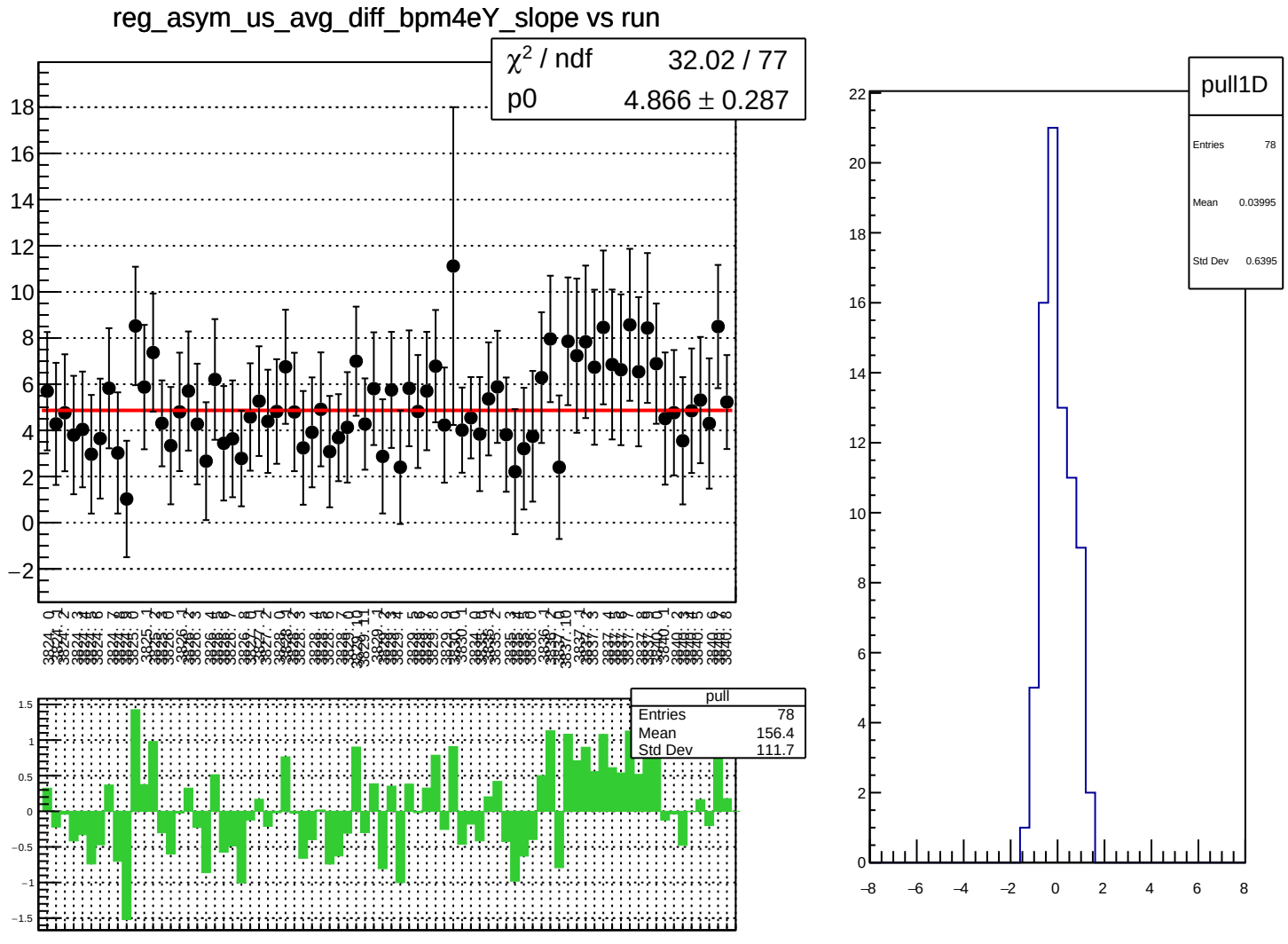

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 774.9 / 77
p0 −45.19 ± 0.1189
pull
Entries 78
Mean 745.5
Std Dev 707.8
pull1D
Entries 78
Mean 0.2224
Std Dev 1.964

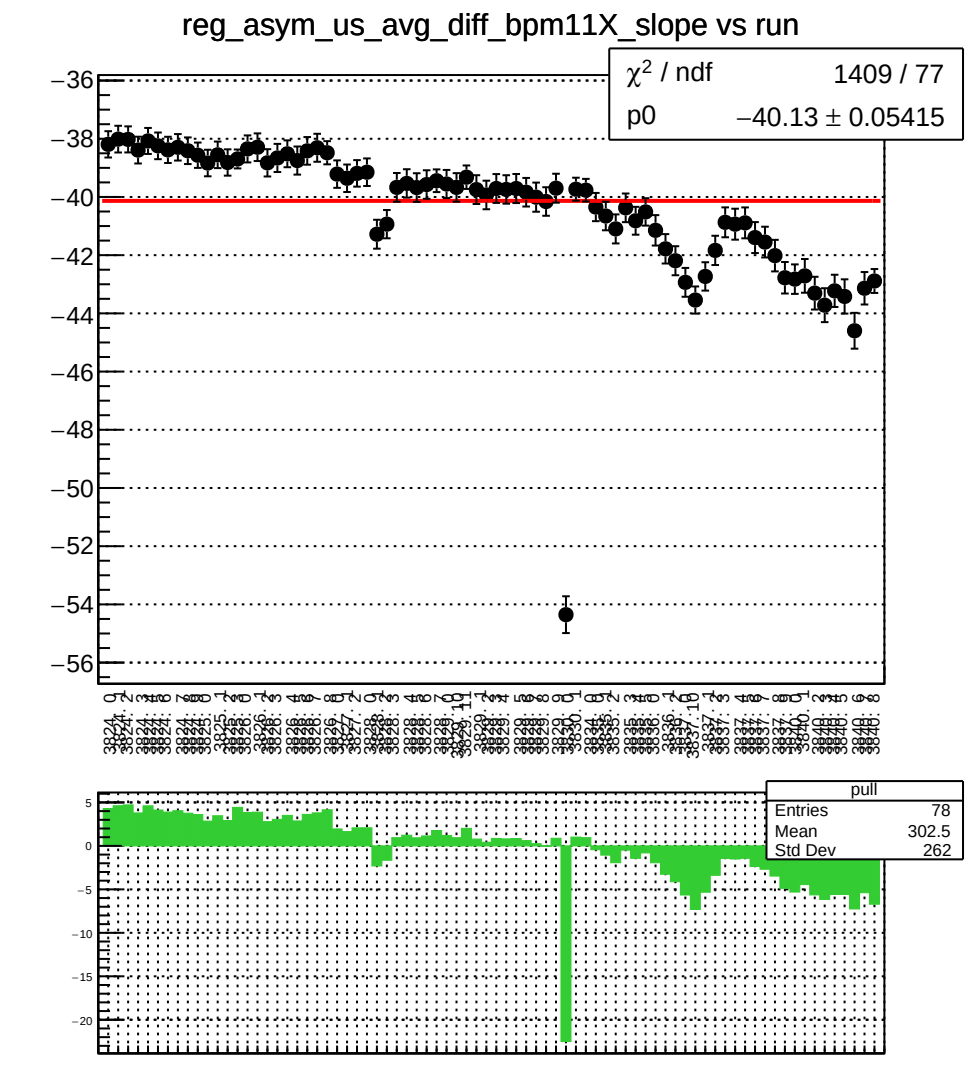

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 39.51 / 77
p0 −11.49 ± 0.2466
pull
Entries 78
Mean 185.6
Std Dev 132.5
pull1D
Entries 78
Mean 0.03375
Std Dev 0.7109

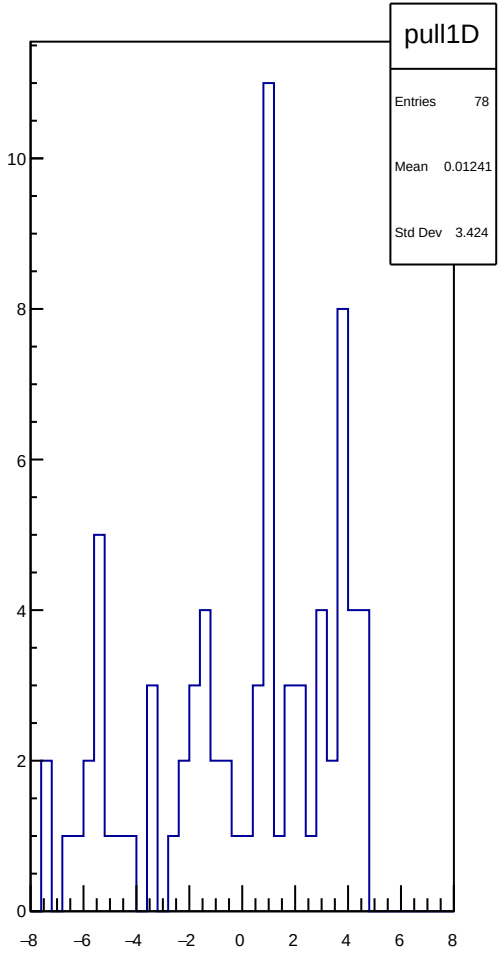

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 74.82 / 77
p0 3.906 ± 0.1826
pull
Entries 78
Mean 110.3
Std Dev 64.45

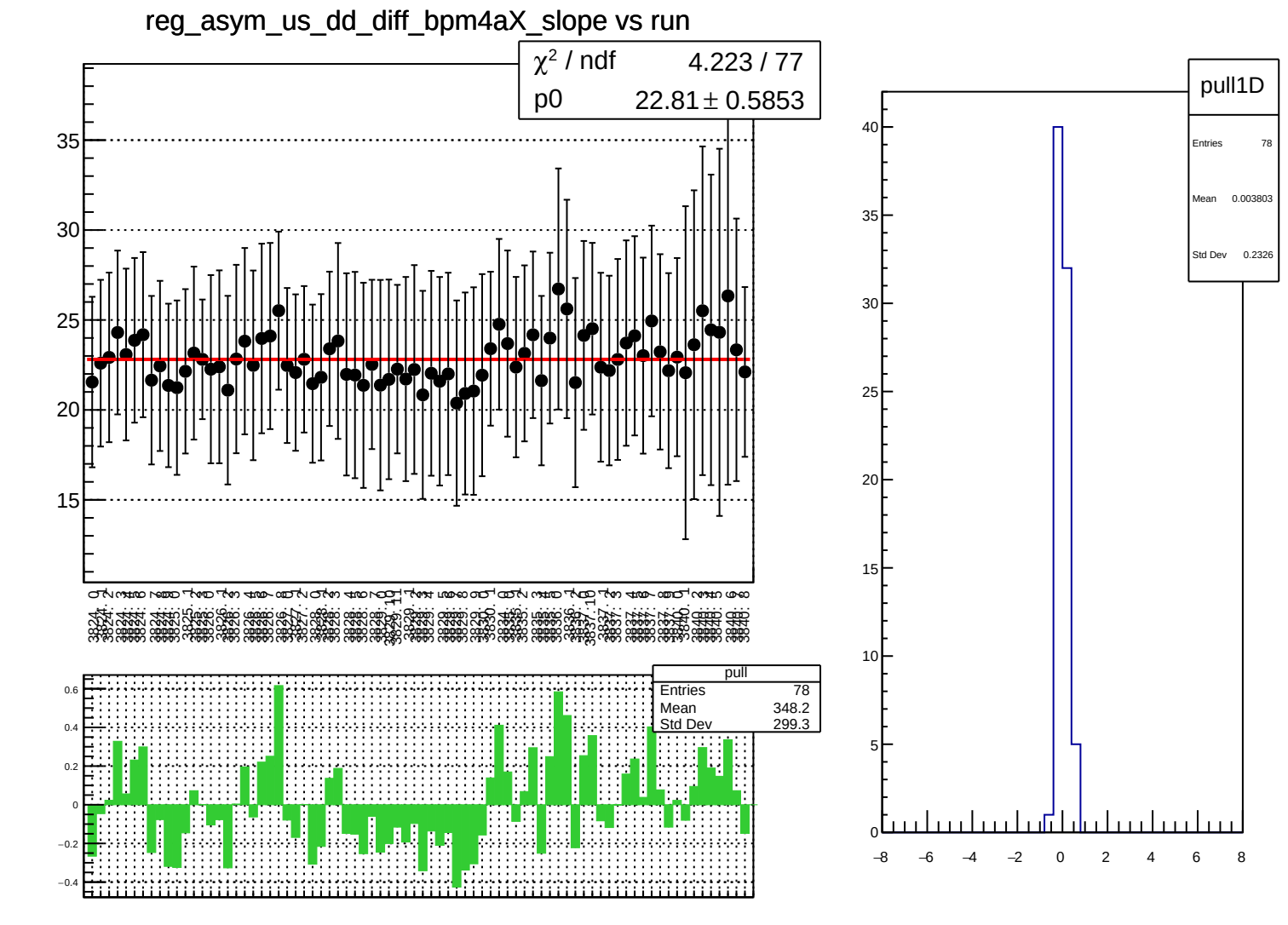

pull1D
Entries 78
Mean −0.1251
Std Dev 0.9714

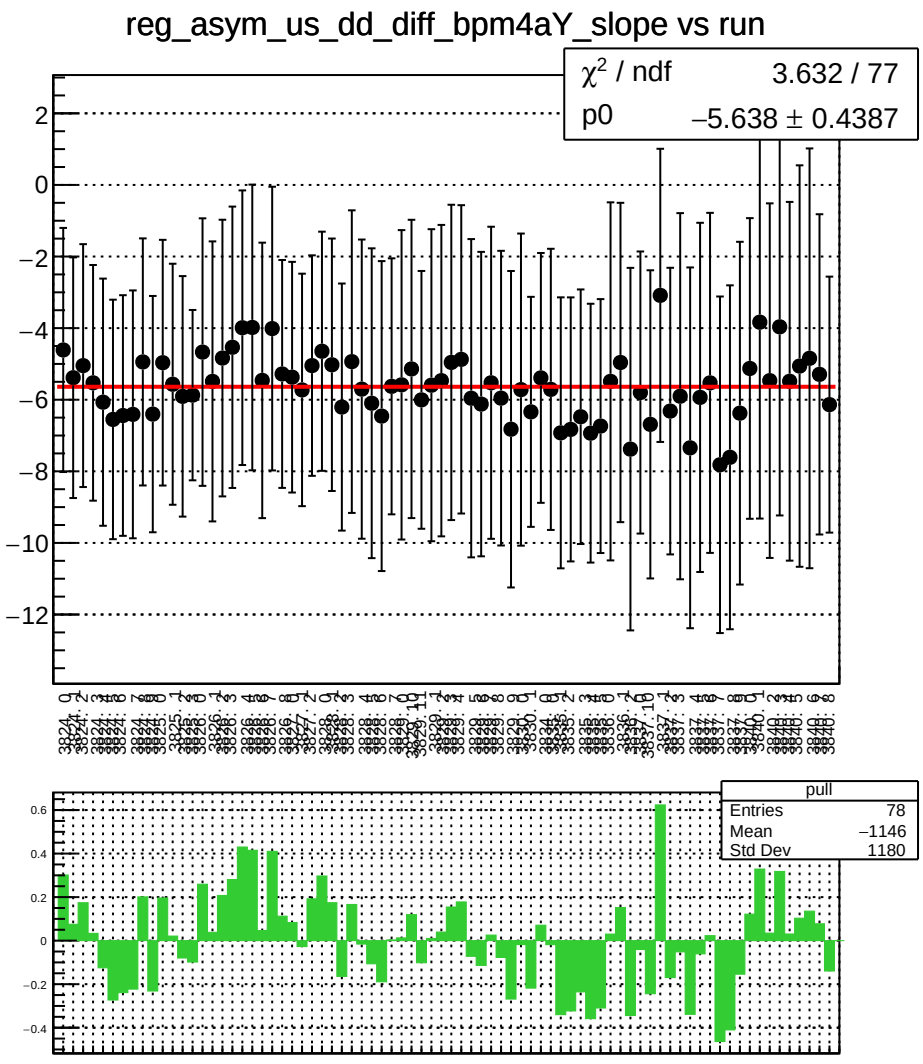

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 821 / 77
p0 −11.63 ± 0.04261
pull
Entries 78
Mean 149.9
Std Dev 103.1
pull1D
Entries 78
Mean −0.4899
Std Dev 3.207

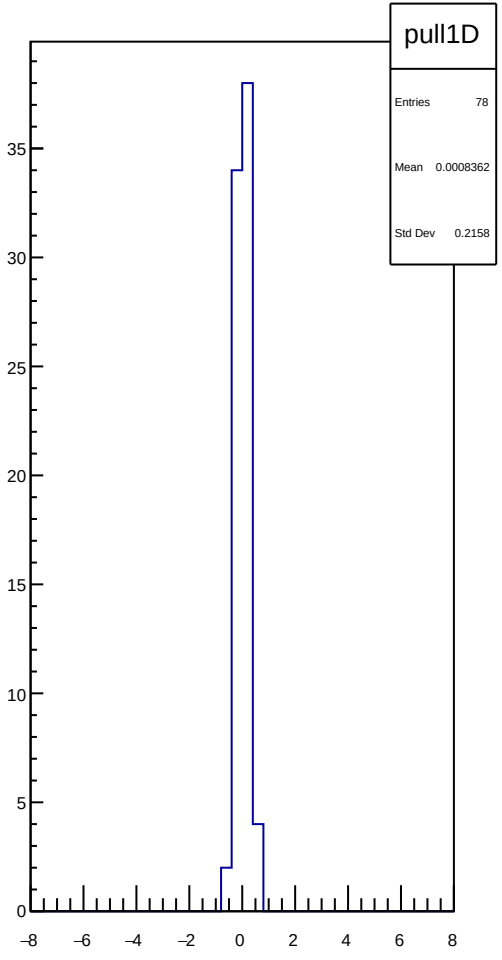

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.02 / 77
p0 4.866 ± 0.287
pull
Entries 78
Mean 156.4
Std Dev 111.7
pull1D
Entries 78
Mean 0.03995
Std Dev 0.6395

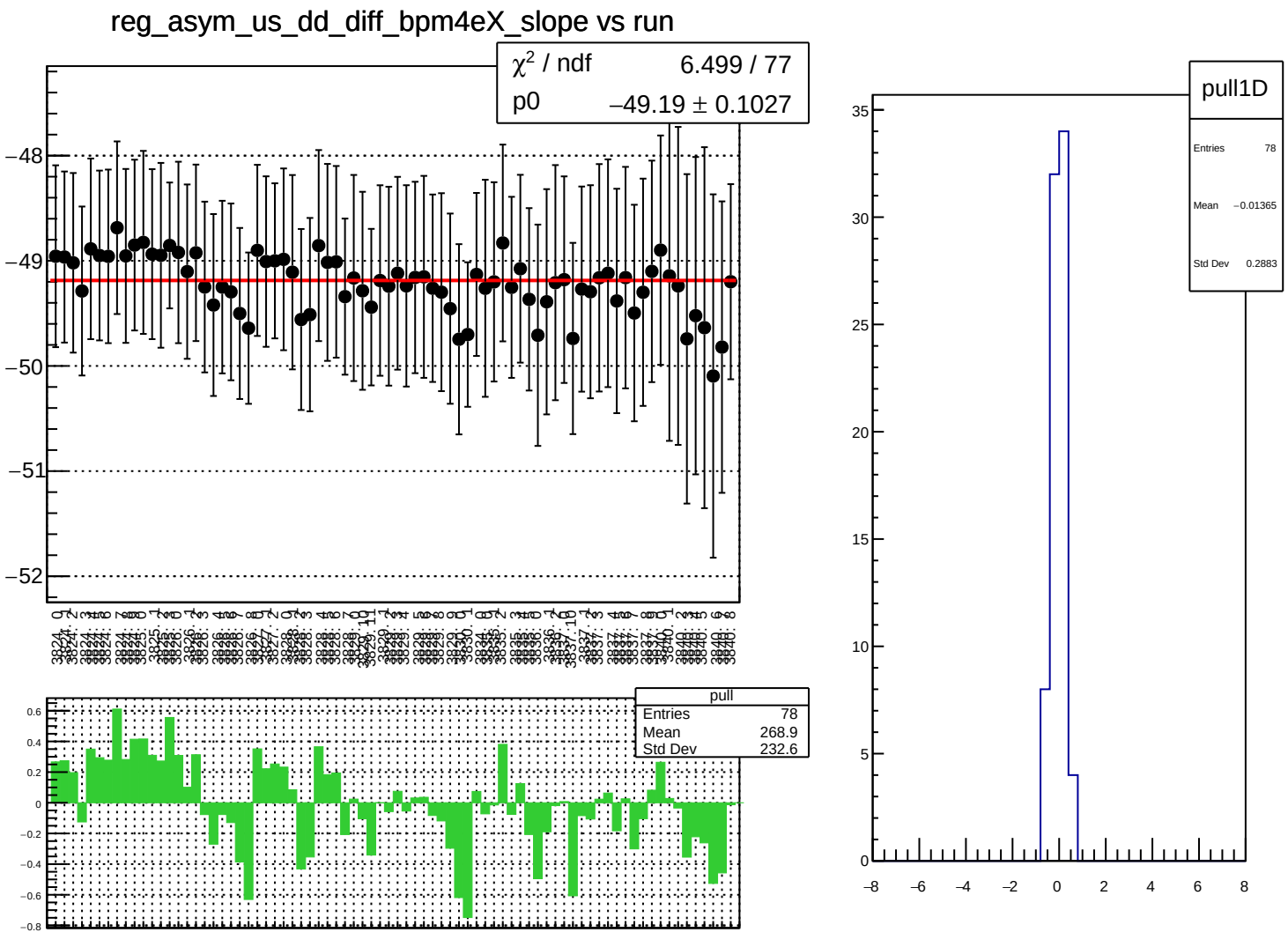

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 1409 / 77
p0 −40.13 ± 0.05415
pull
Entries 78
Mean 302.5
Std Dev 262

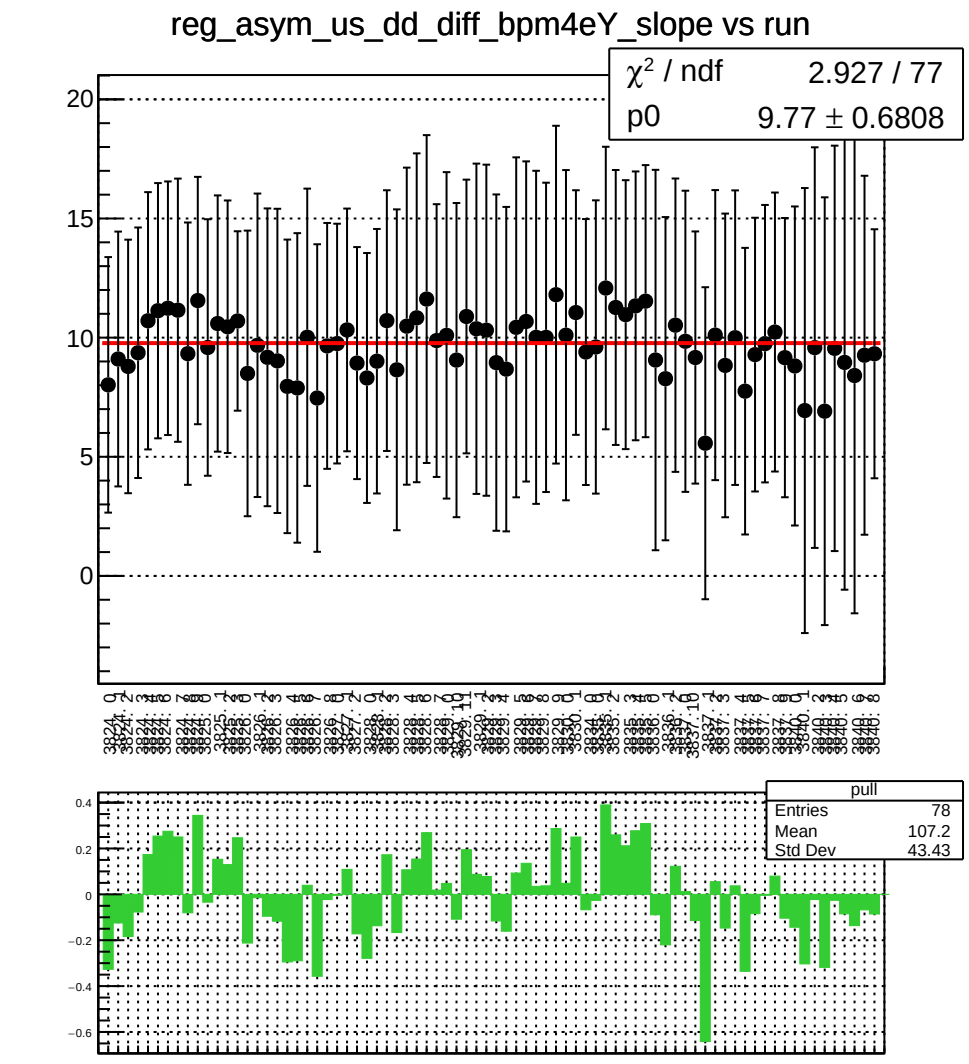

pull1D
Entries 78
Mean 0.01241
Std Dev 3.424

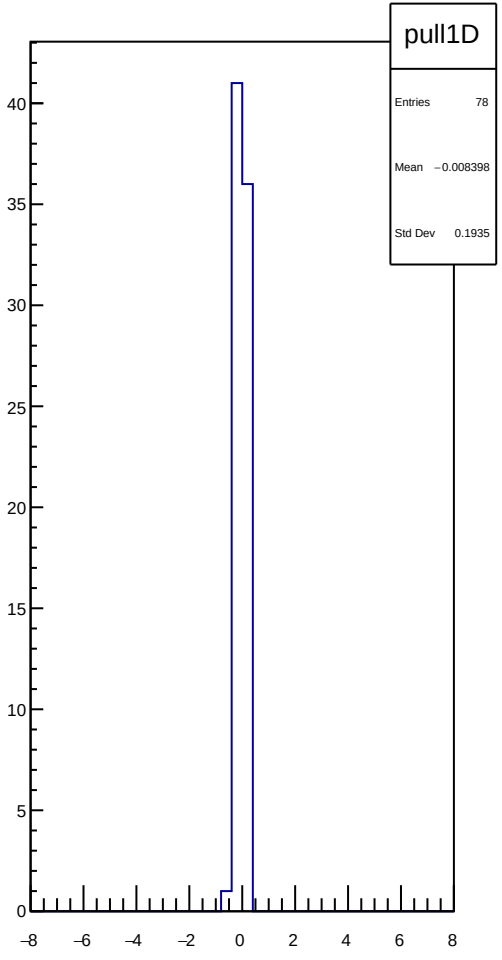

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 4.223 / 77
p0 22.81 ± 0.5853
pull
Entries 78
Mean 348.2
Std Dev 299.3
pull1D
Entries 78
Mean 0.003803
Std Dev 0.2326

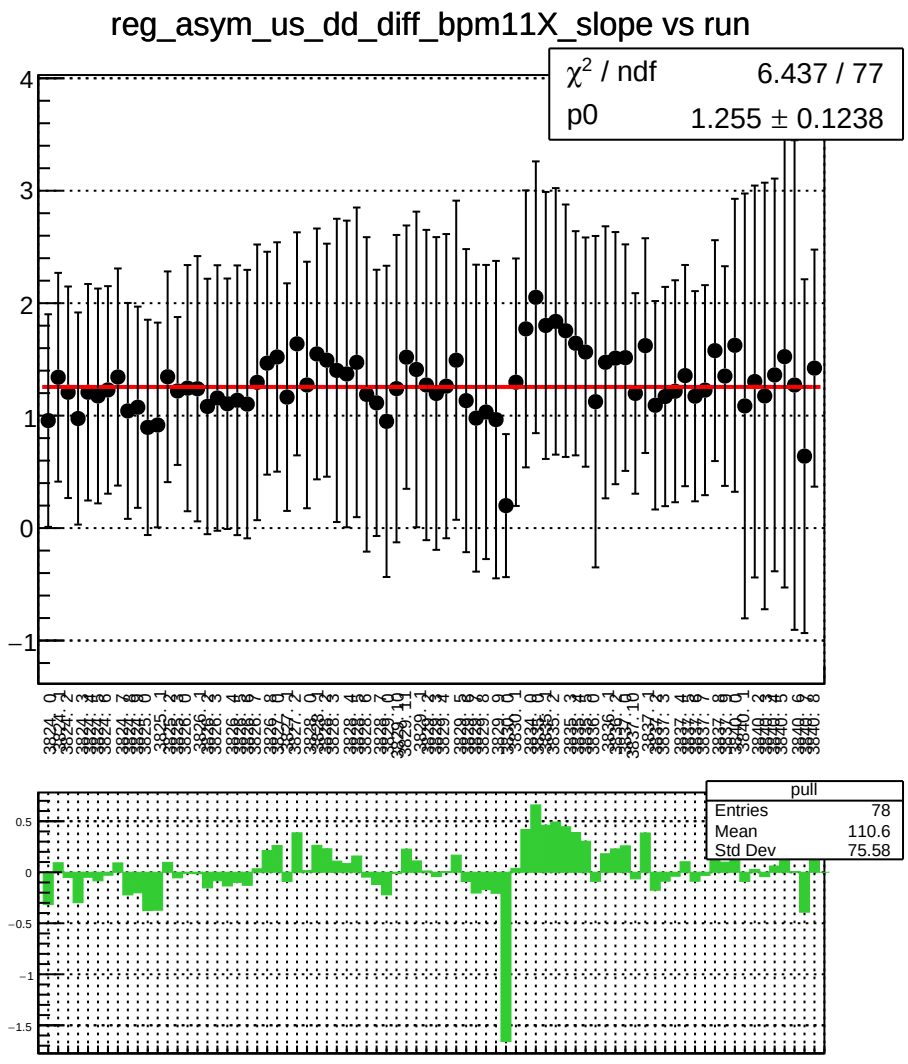

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.632 / 77
p0 −5.638 ± 0.4387
pull
Entries 78
Mean −1146
Std Dev 1180

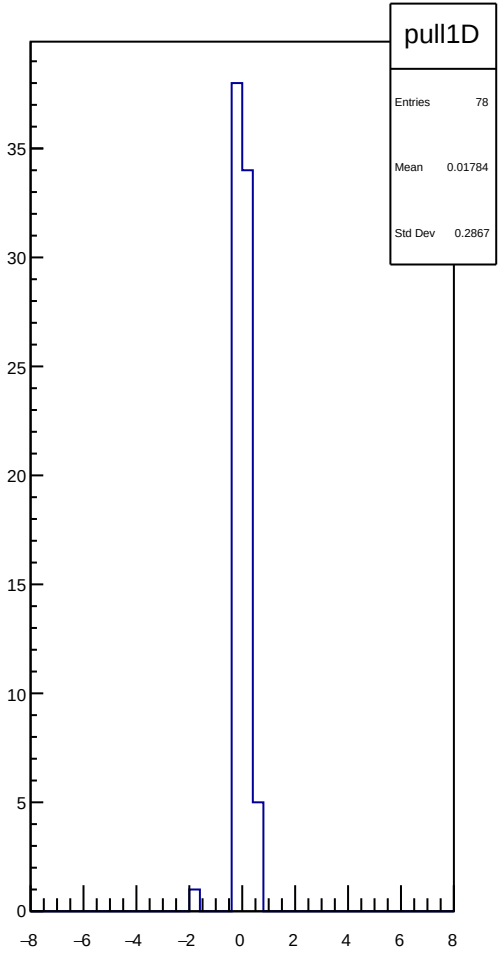

pull1D
Entries 78
Mean 0.0008362
Std Dev 0.2158

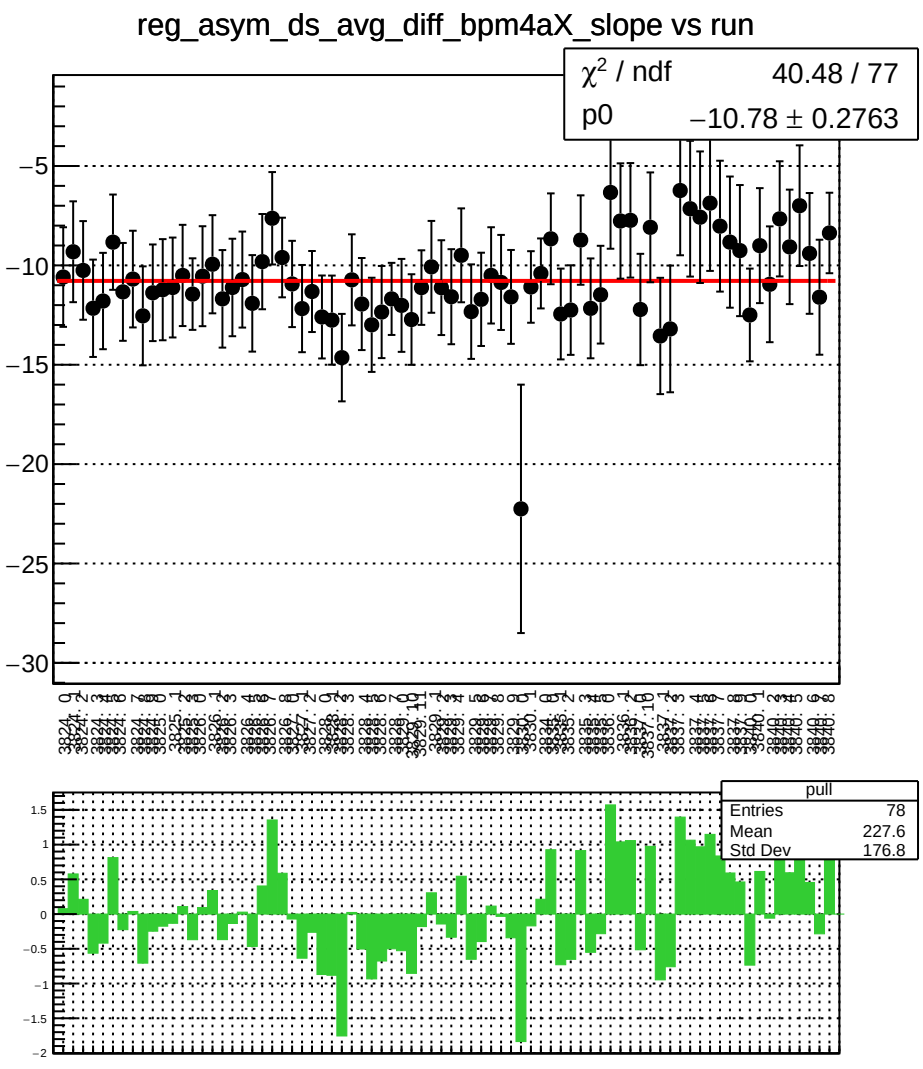

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.499 / 77
p0 −49.19 ± 0.1027
pull
Entries 78
Mean 268.9
Std Dev 232.6
pull1D
Entries 78
Mean −0.01365
Std Dev 0.2883

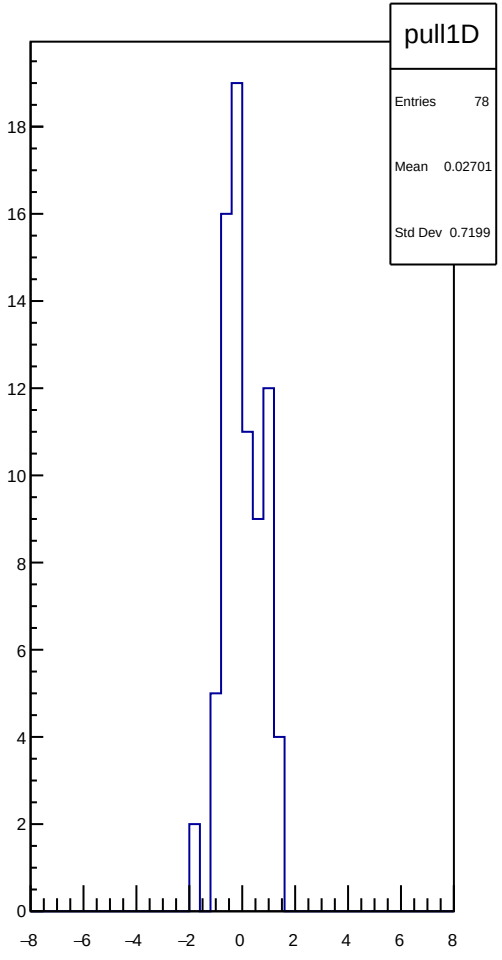

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.927 / 77
p0 9.77 ± 0.6808
pull
Entries 78
Mean 107.2
Std Dev 43.43

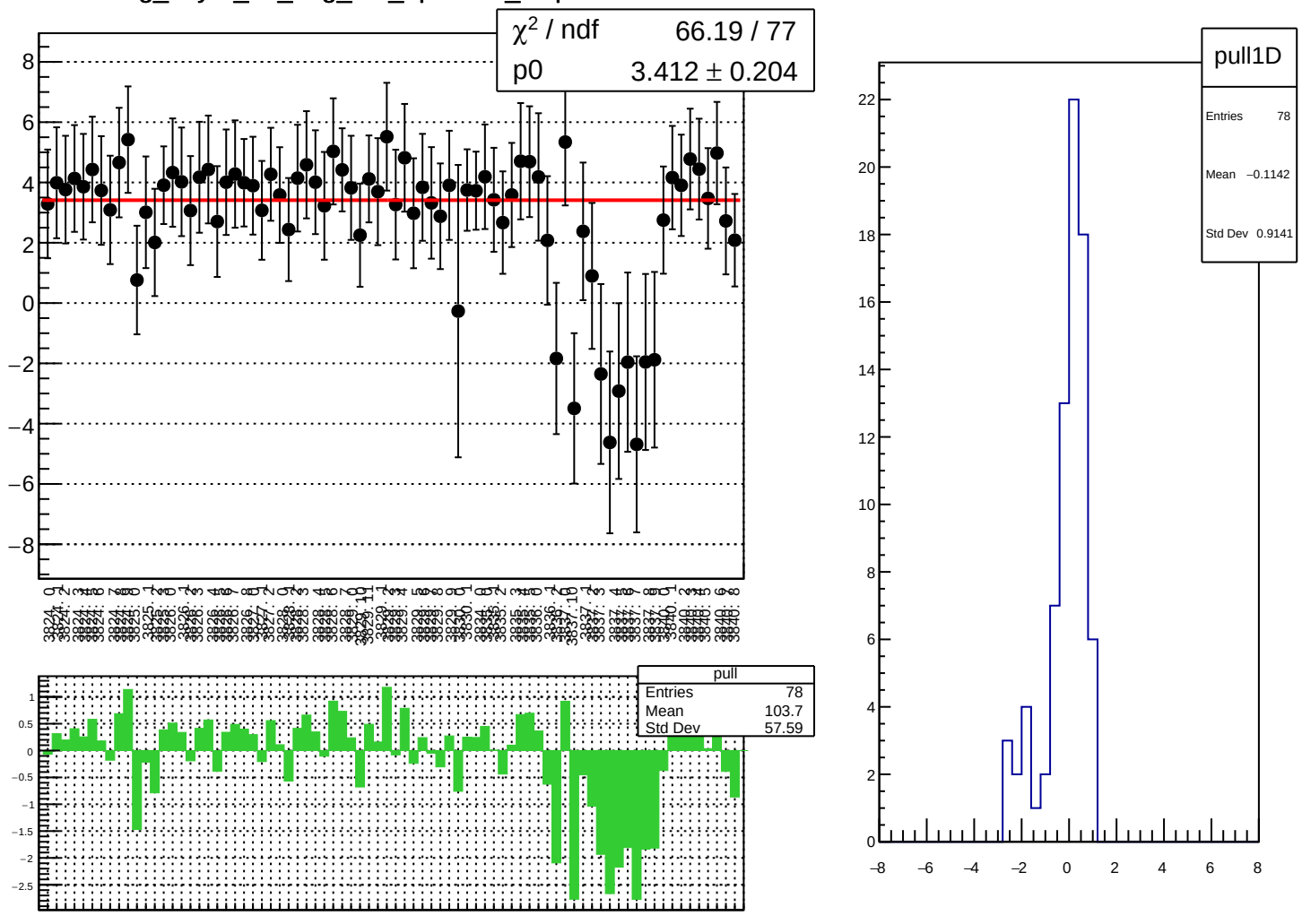

pull1D
Entries 78
Mean −0.008398
Std Dev 0.1935

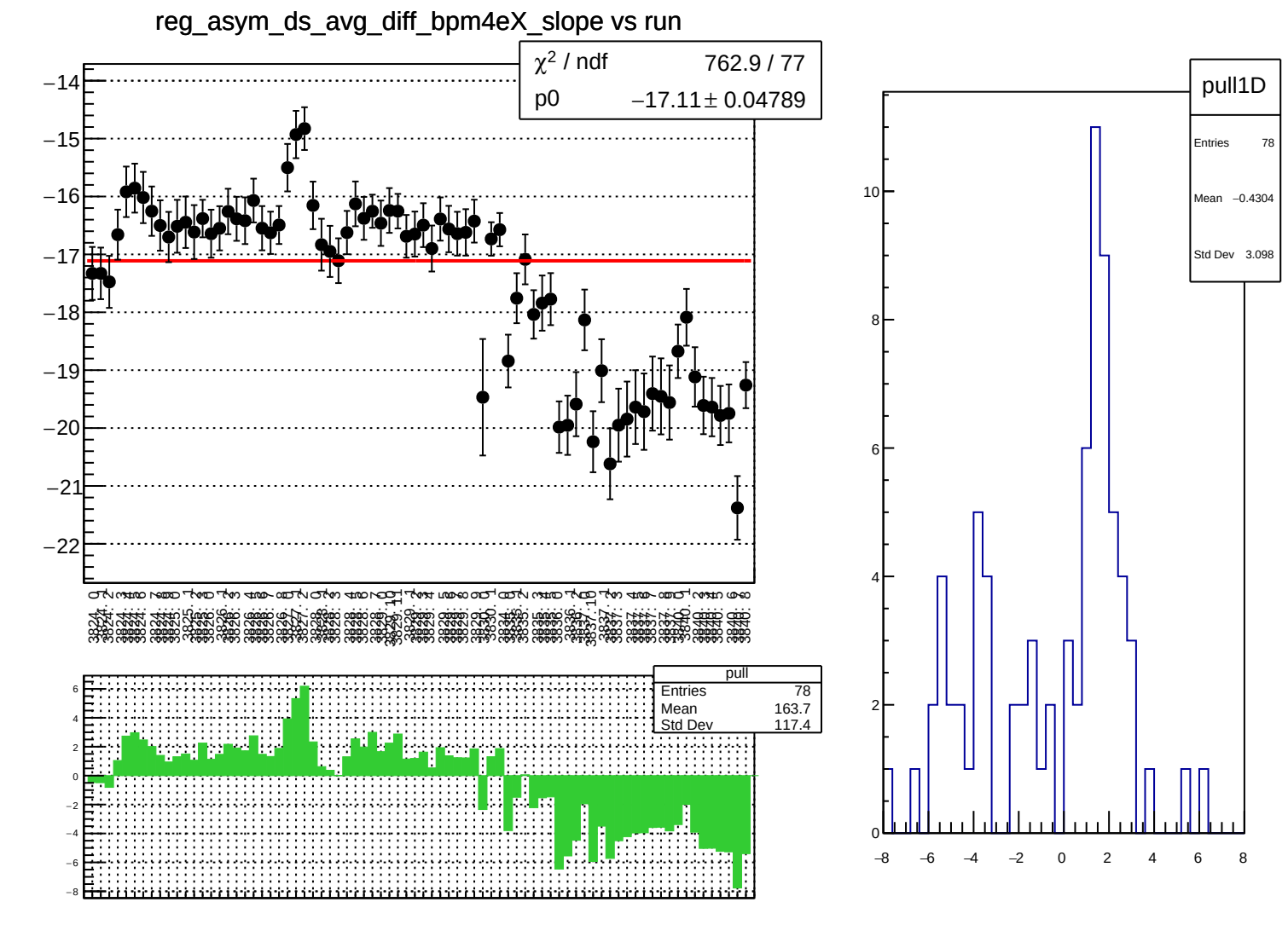

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 6.437 / 77
p0 1.255 ± 0.1238
pull
Entries 78
Mean 110.6
Std Dev 75.58

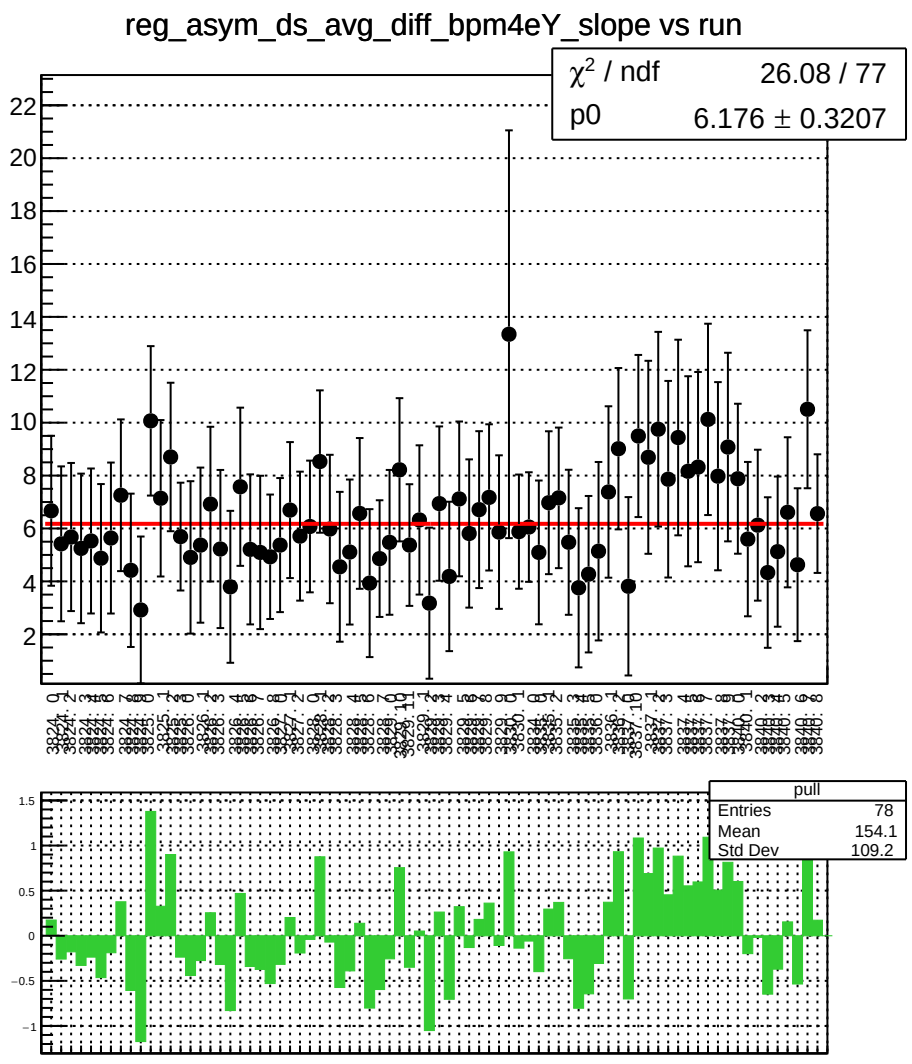

pull1D
Entries 78
Mean 0.01784
Std Dev 0.2867

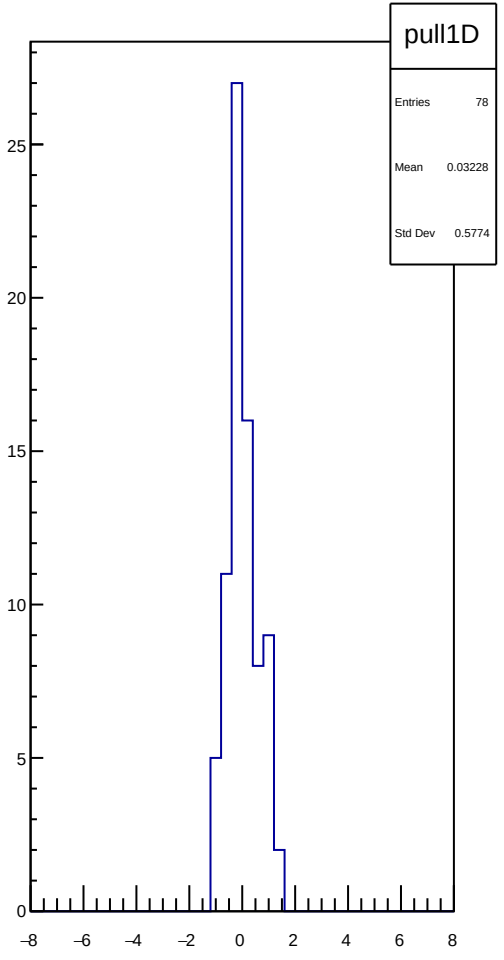

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 40.48 / 77
p0 −10.78 ± 0.2763
pull
Entries 78
Mean 227.6
Std Dev 176.8

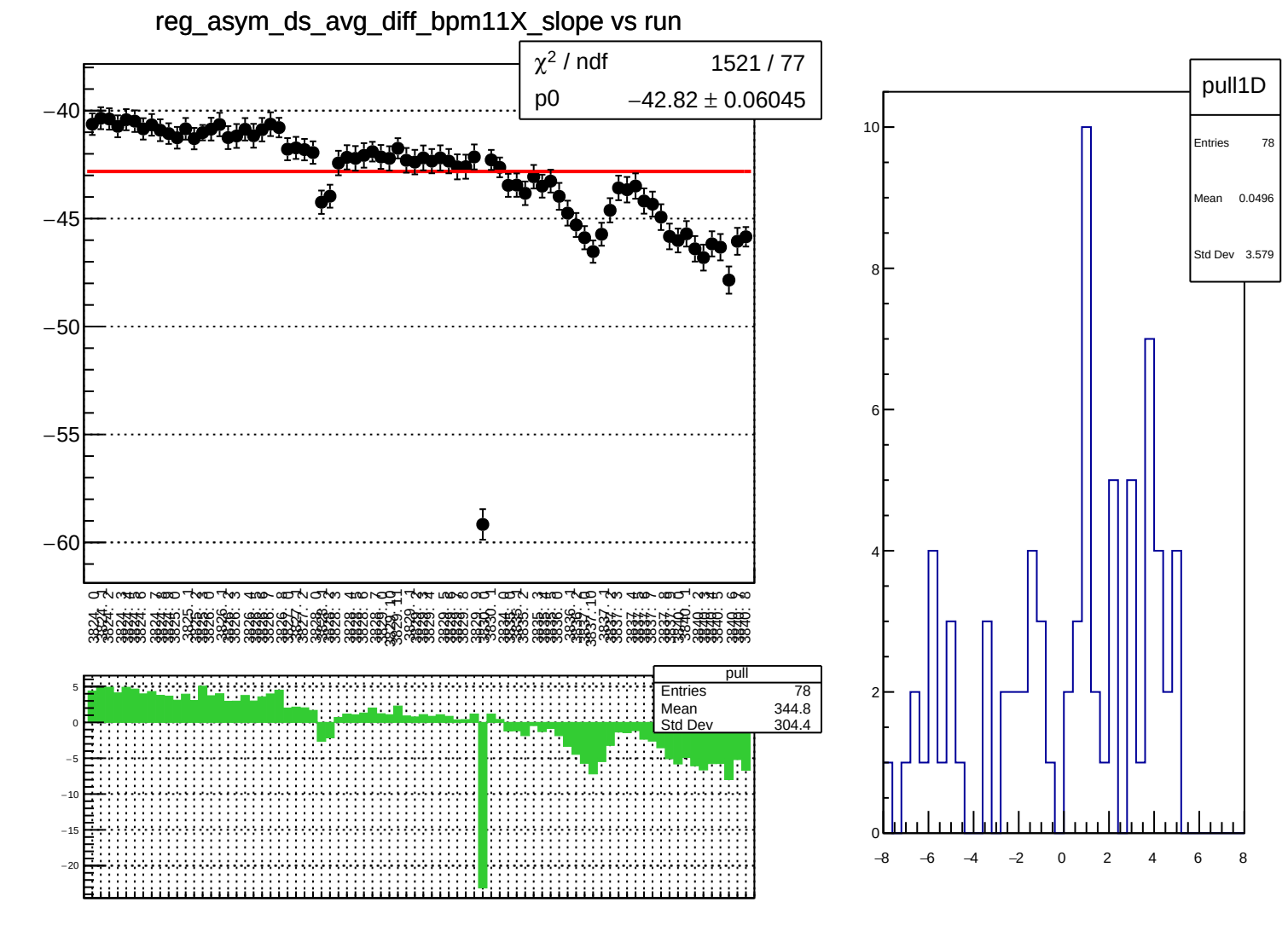

pull1D
Entries 78
Mean 0.02701
Std Dev 0.7199

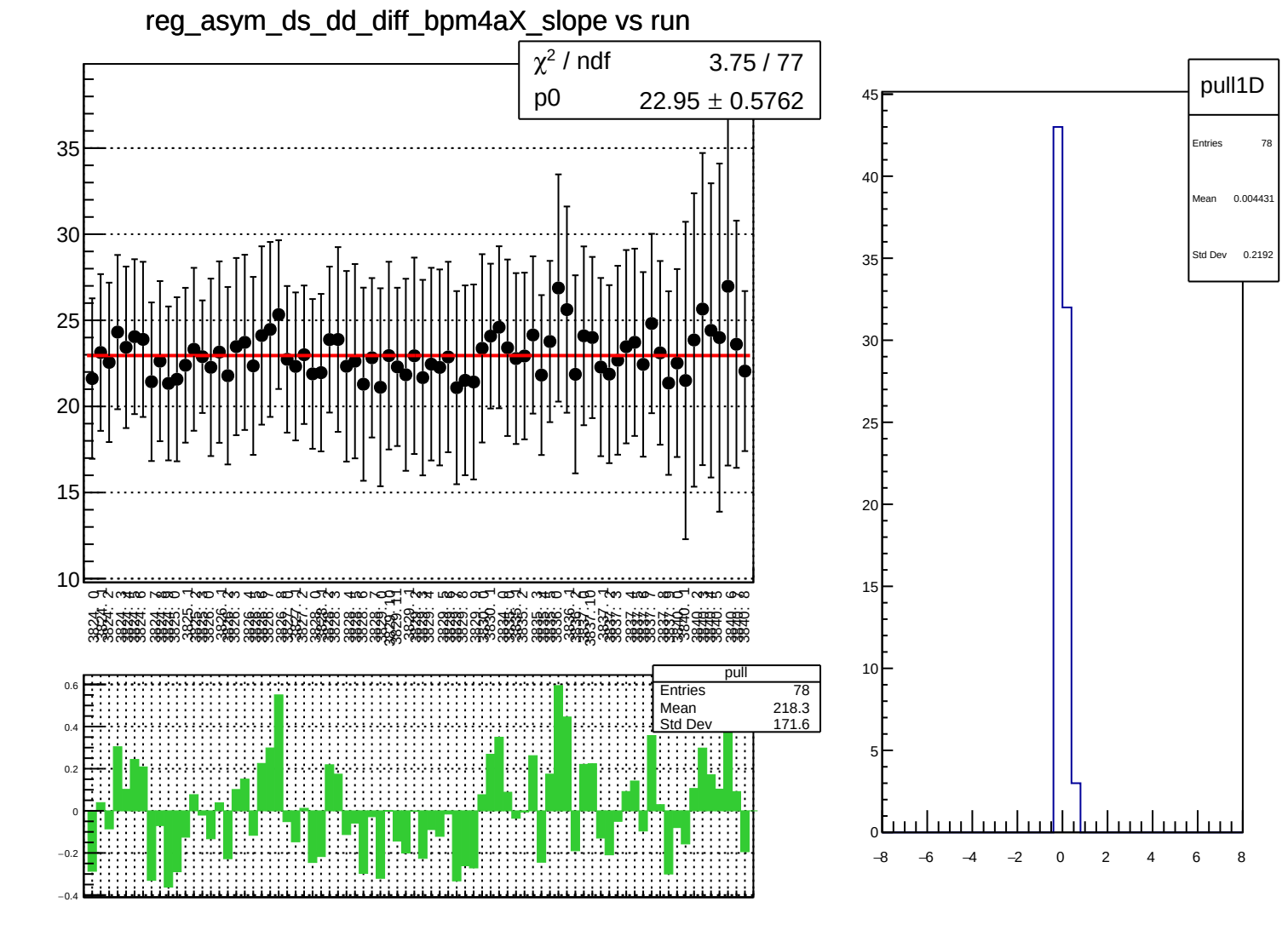

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 66.19 / 77
p0 3.412 ± 0.204
pull
Entries 78
Mean 103.7
Std Dev 57.59
pull1D
Entries 78
Mean −0.1142
Std Dev 0.9141

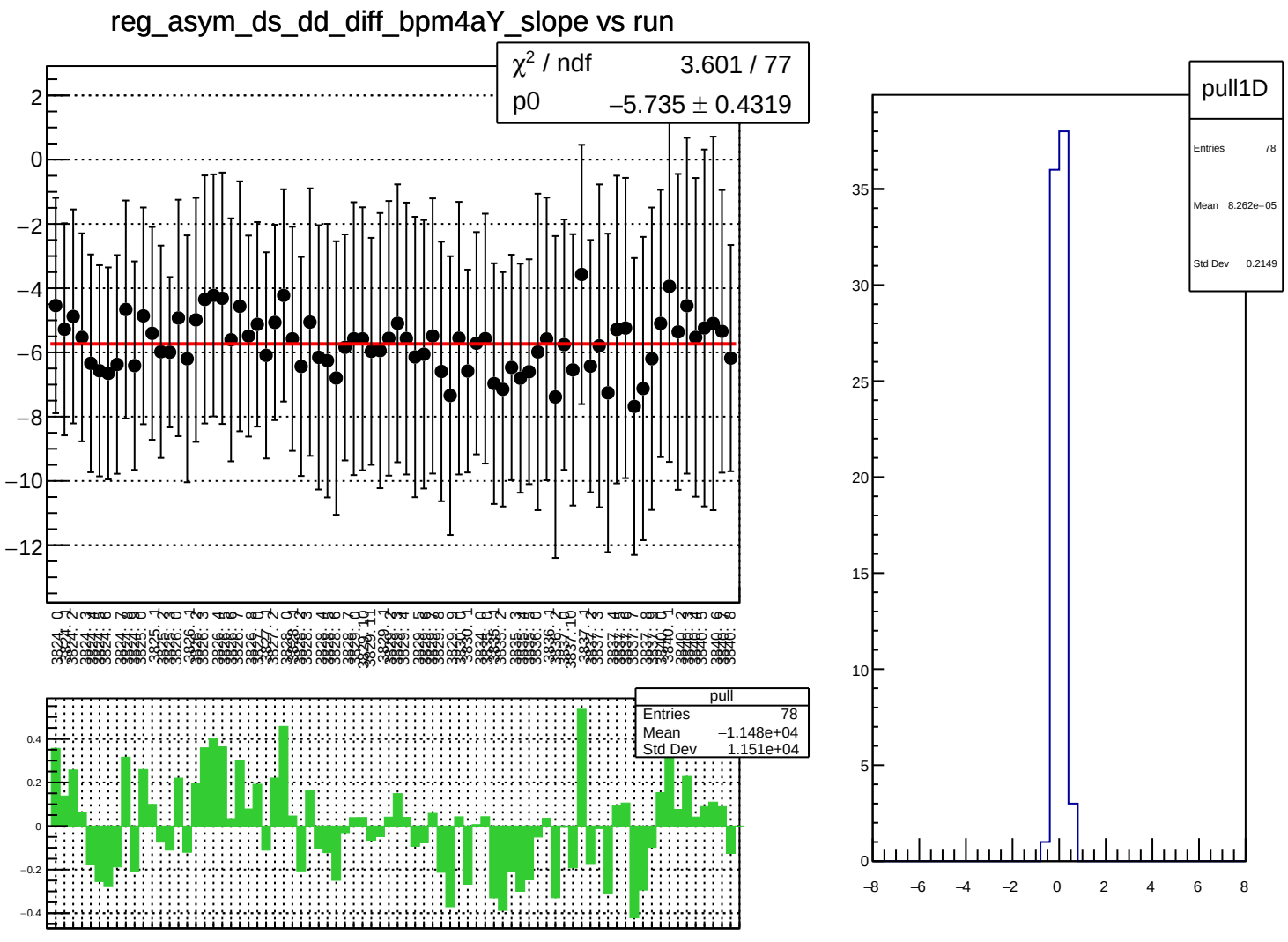

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 762.9 / 77
p0 −17.11 ± 0.04789
pull
Entries 78
Mean 163.7
Std Dev 117.4
pull1D
Entries 78
Mean −0.4304
Std Dev 3.098

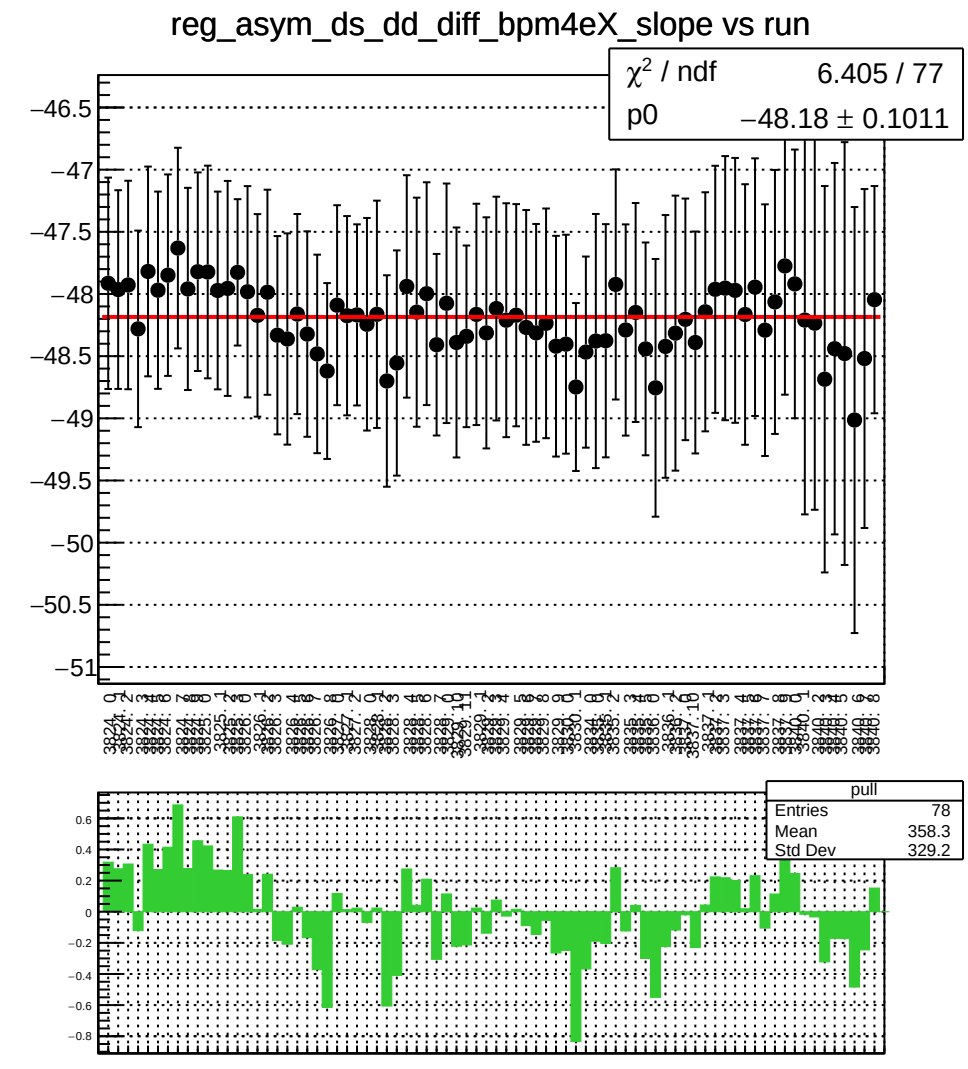

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.08 / 77
p0 6.176 ± 0.3207
pull
Entries 78
Mean 154.1
Std Dev 109.2

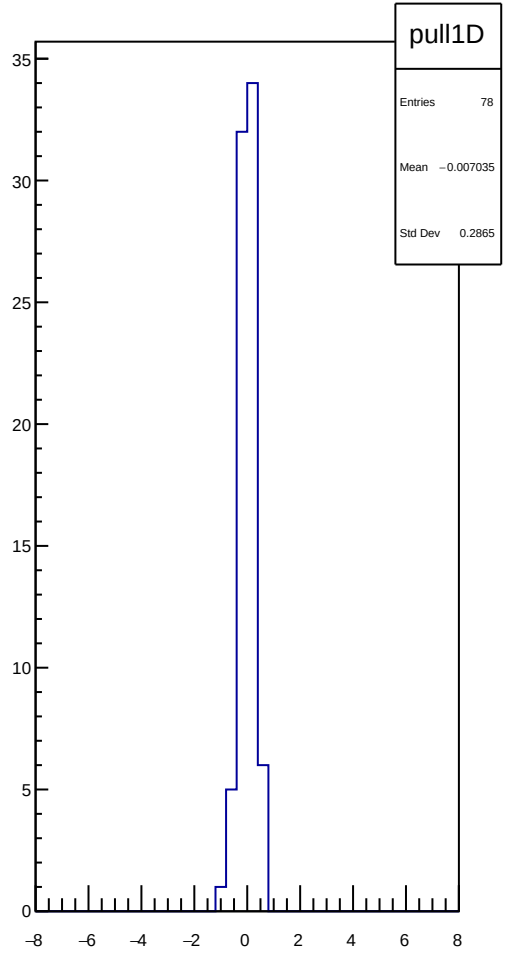

pull1D
Entries 78
Mean 0.03228
Std Dev 0.5774

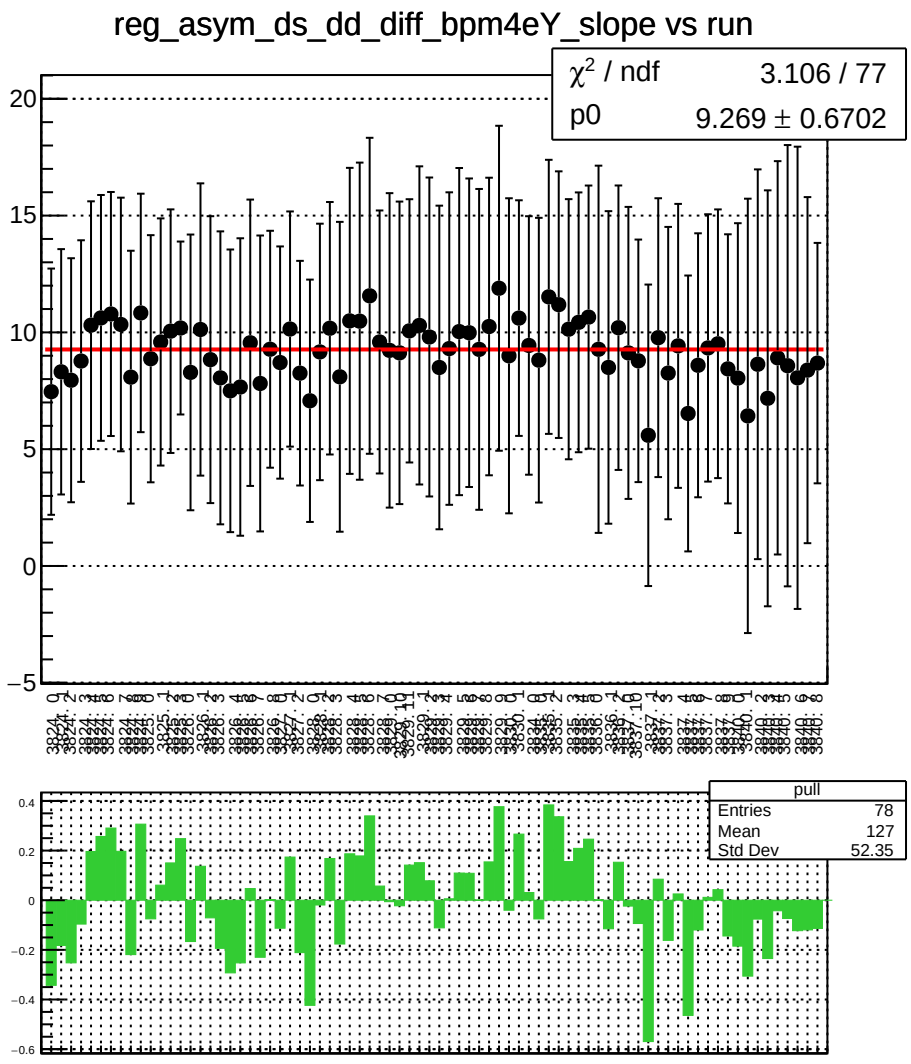

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 1521 / 77
p0 −42.82 ± 0.06045
pull
Entries 78
Mean 344.8
Std Dev 304.4
pull1D
Entries 78
Mean 0.0496
Std Dev 3.579

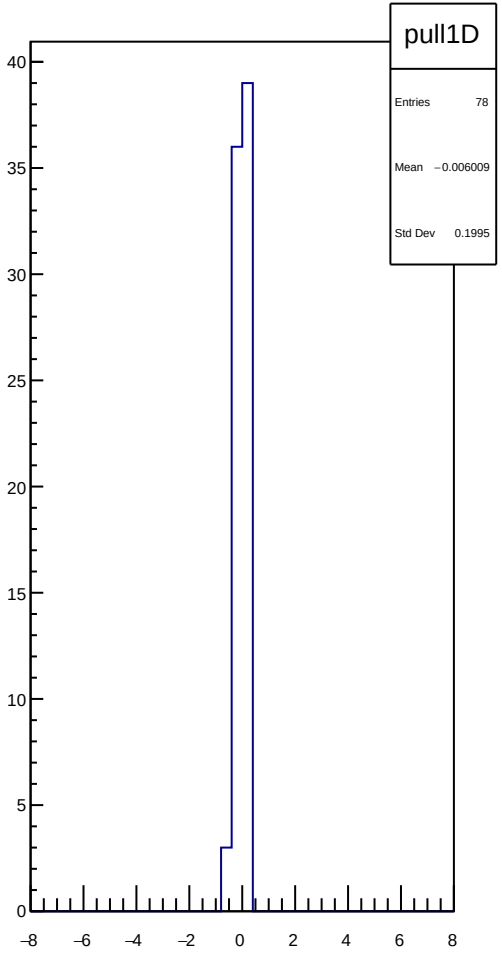

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.75 / 77
p0 22.95 ± 0.5762
pull
Entries 78
Mean 218.3
Std Dev 171.6
pull1D
Entries 78
Mean 0.004431
Std Dev 0.2192

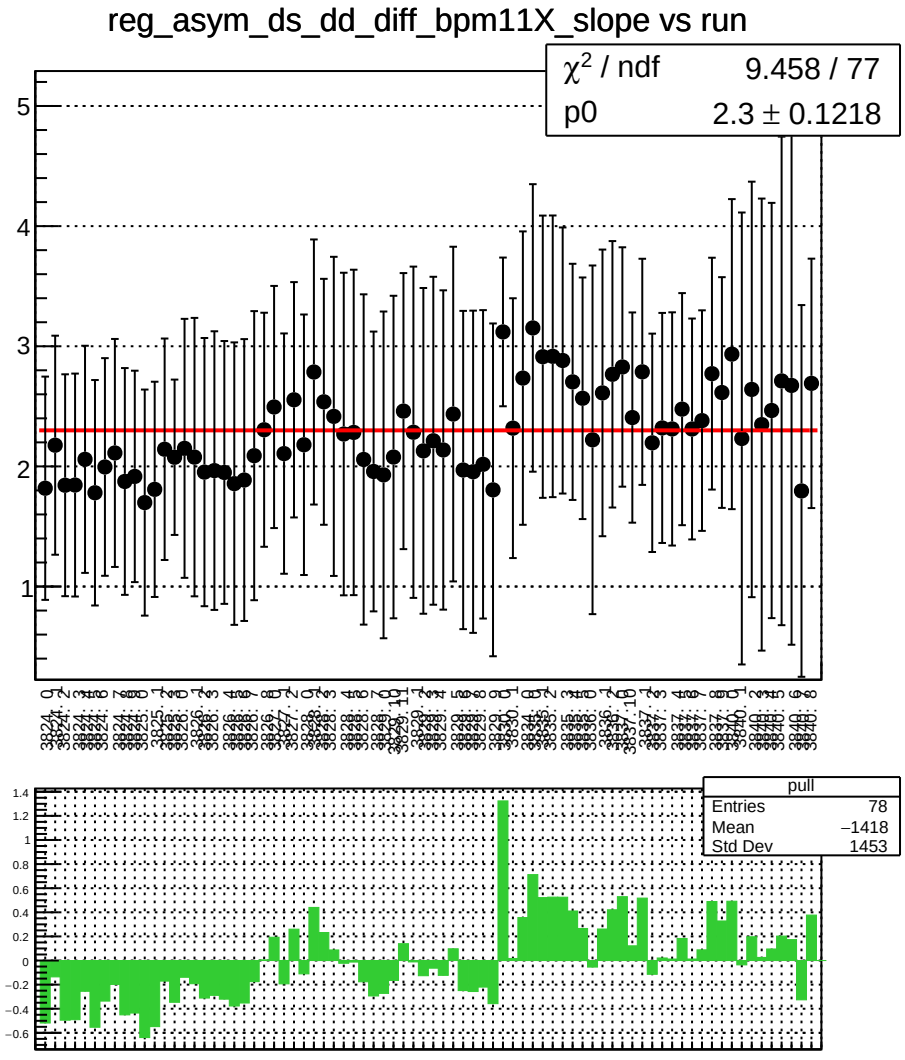

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.601 / 77
p0 −5.735 ± 0.4319
pull
Entries 78
Mean −1.148e+04
Std Dev 1.151e+04
pull1D
Entries 78
Mean 8.262e−05
Std Dev 0.2149

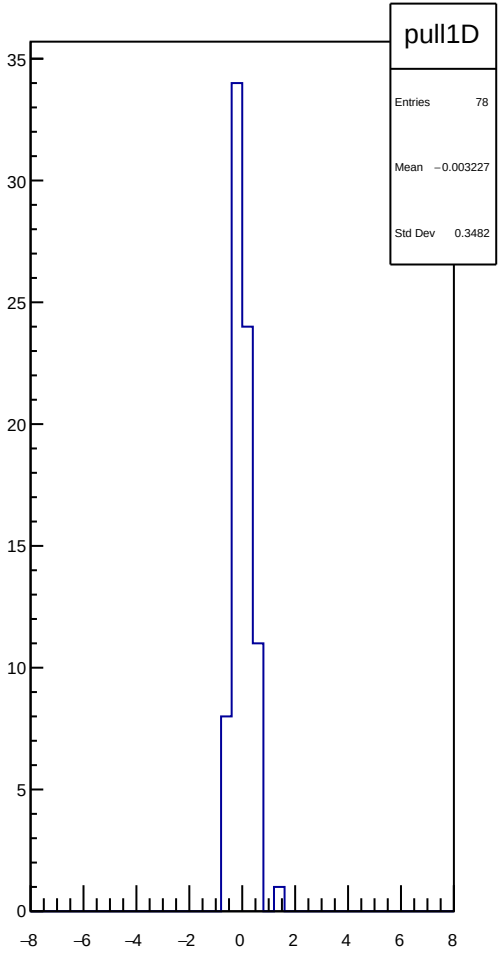

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.405 / 77
p0 −48.18 ± 0.1011
pull
Entries 78
Mean 358.3
Std Dev 329.2

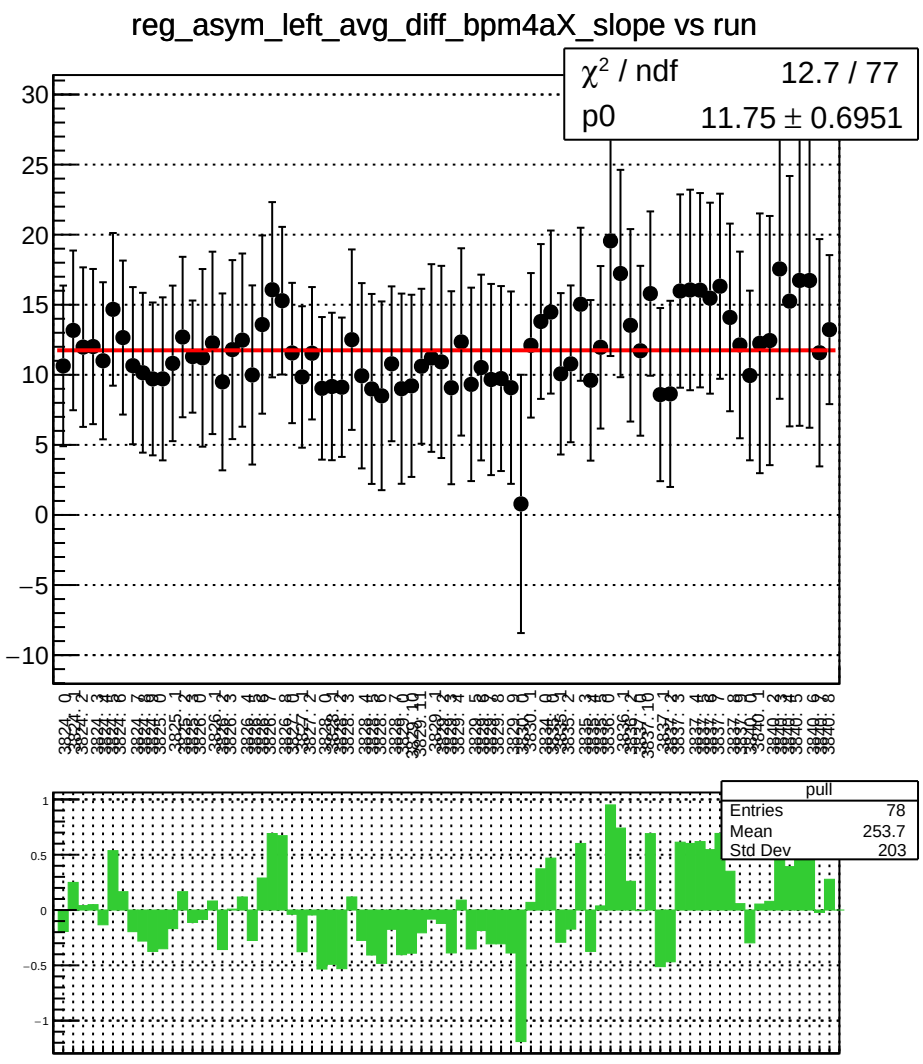

pull1D
Entries 78
Mean −0.007035
Std Dev 0.2865

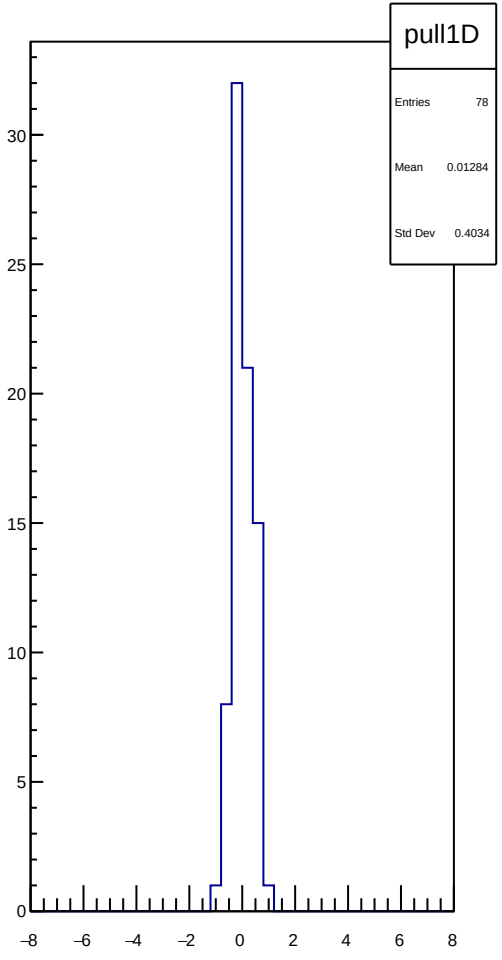

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.106 / 77
p0 9.269 ± 0.6702
pull
Entries 78
Mean 127
Std Dev 52.35

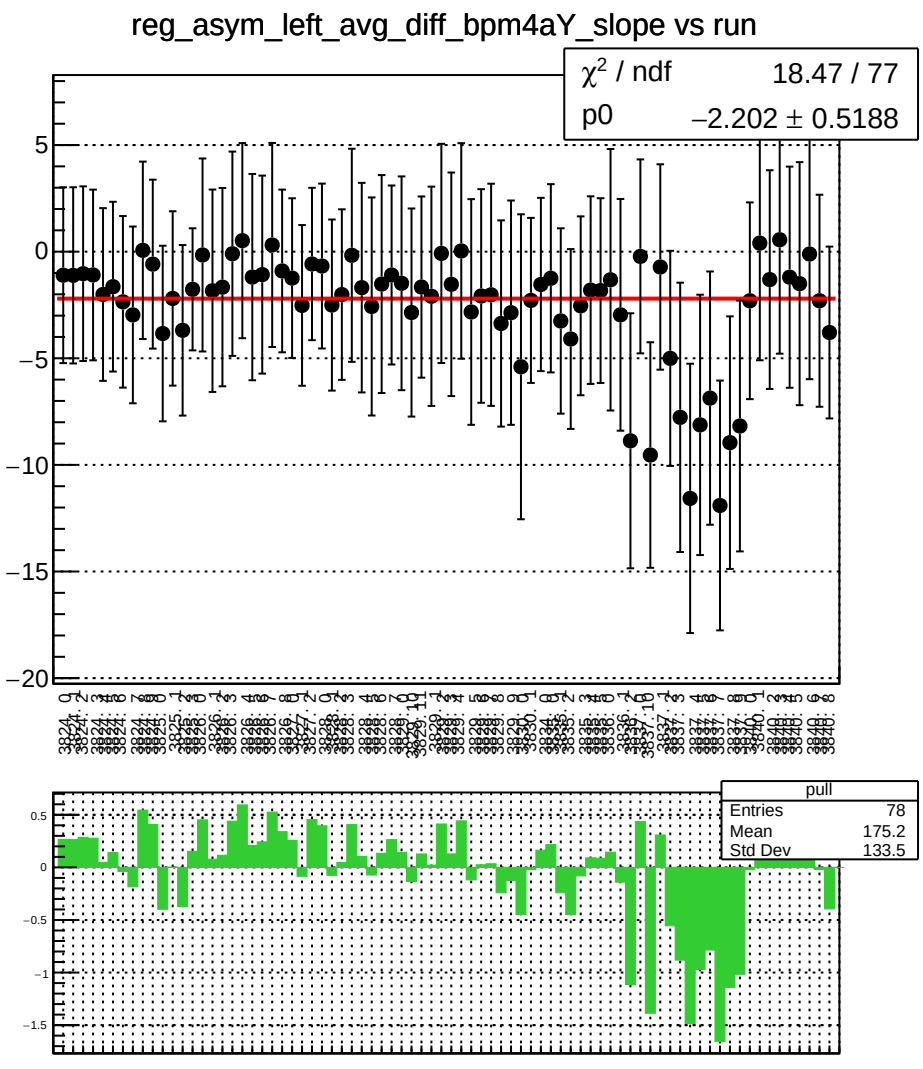

pull1D
Entries 78
Mean −0.006009
Std Dev 0.1995

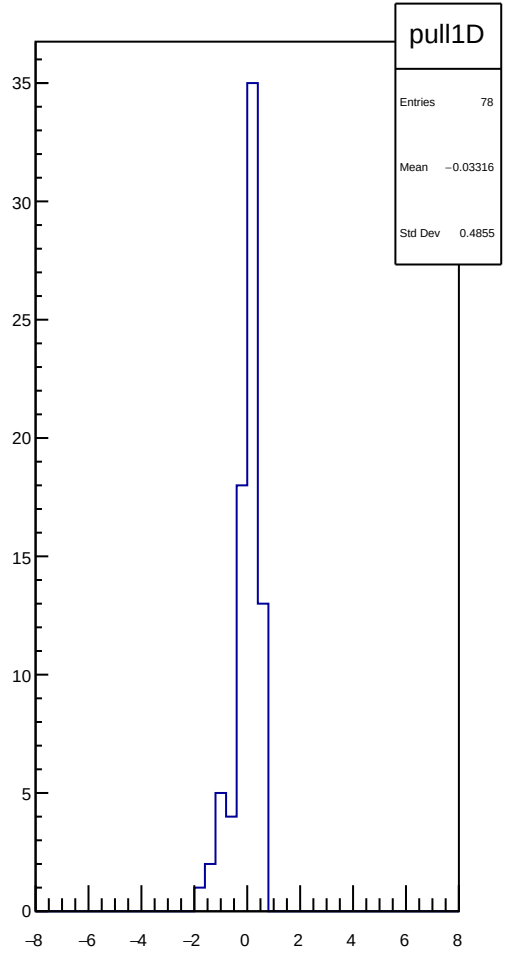

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 9.458 / 77
p0 2.3 ± 0.1218
pull
Entries 78
Mean −1418
Std Dev 1453

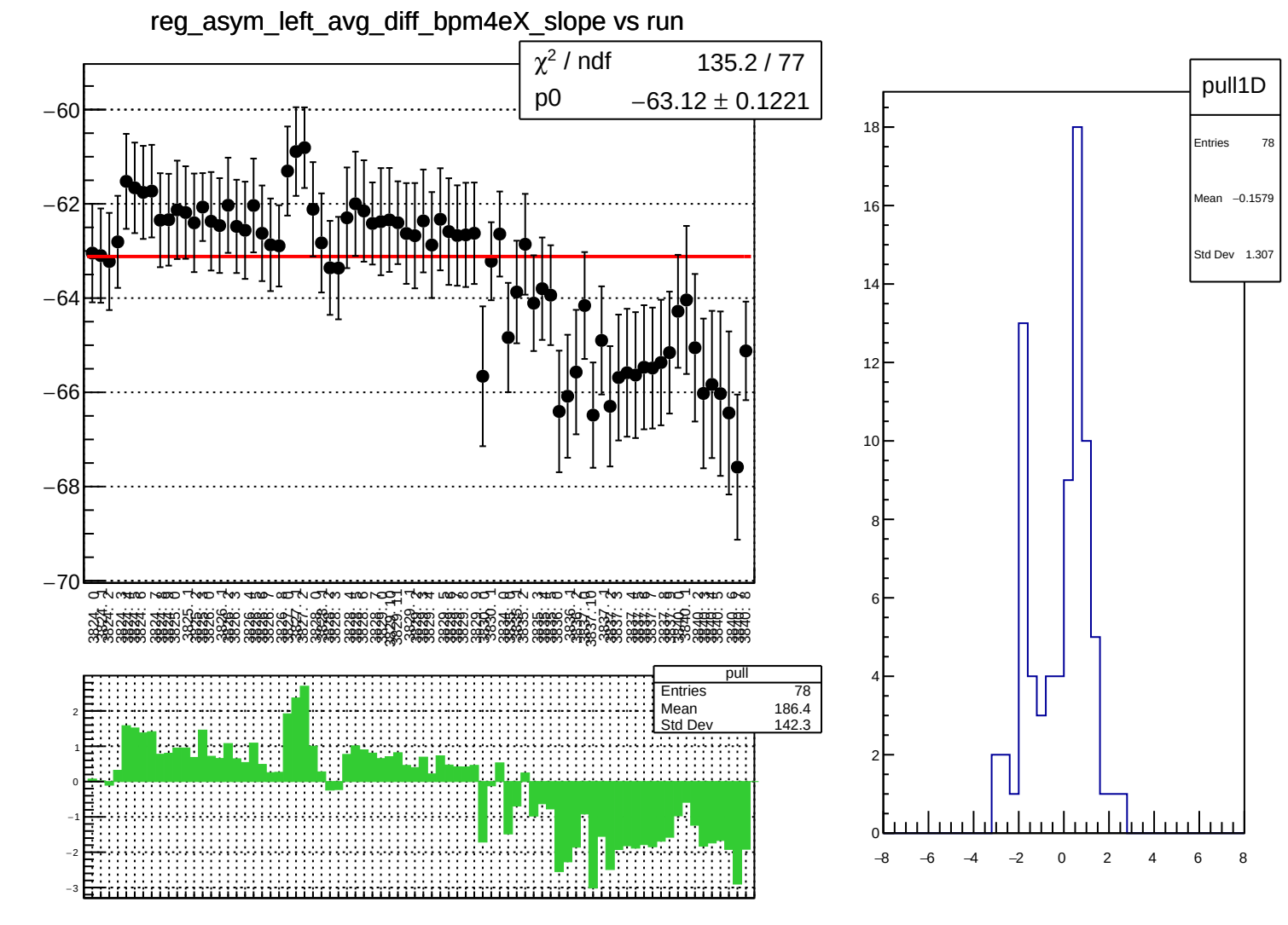

pull1D
Entries 78
Mean −0.003227
Std Dev 0.3482

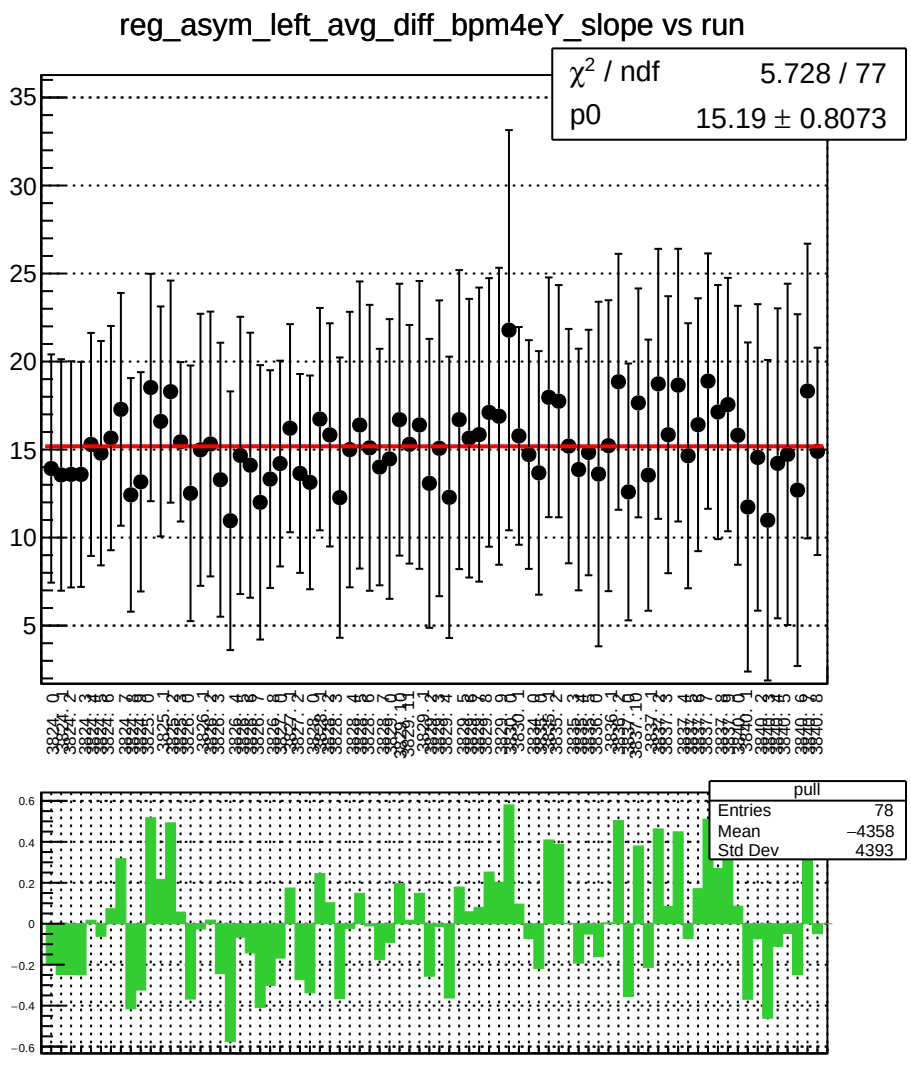

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.7 / 77
p0 11.75 ± 0.6951
pull
Entries 78
Mean 253.7
Std Dev 203

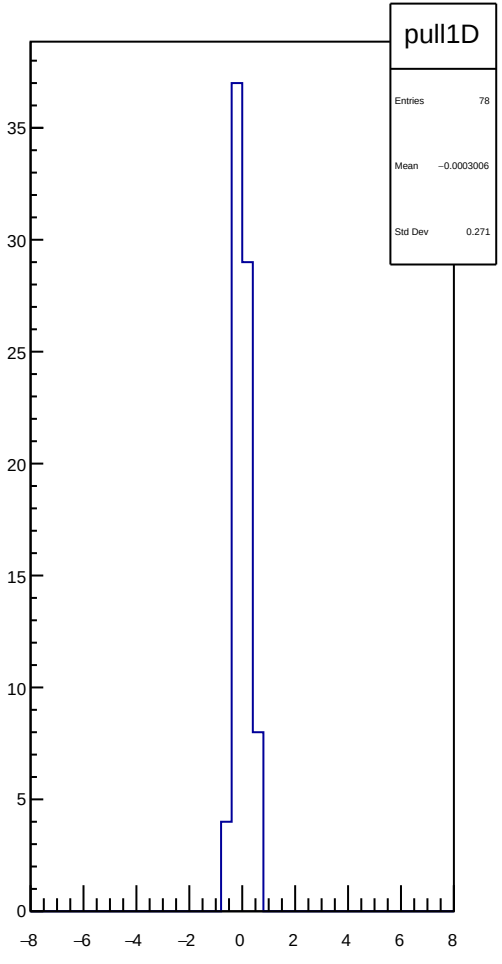

pull1D
Entries 78
Mean 0.01284
Std Dev 0.4034

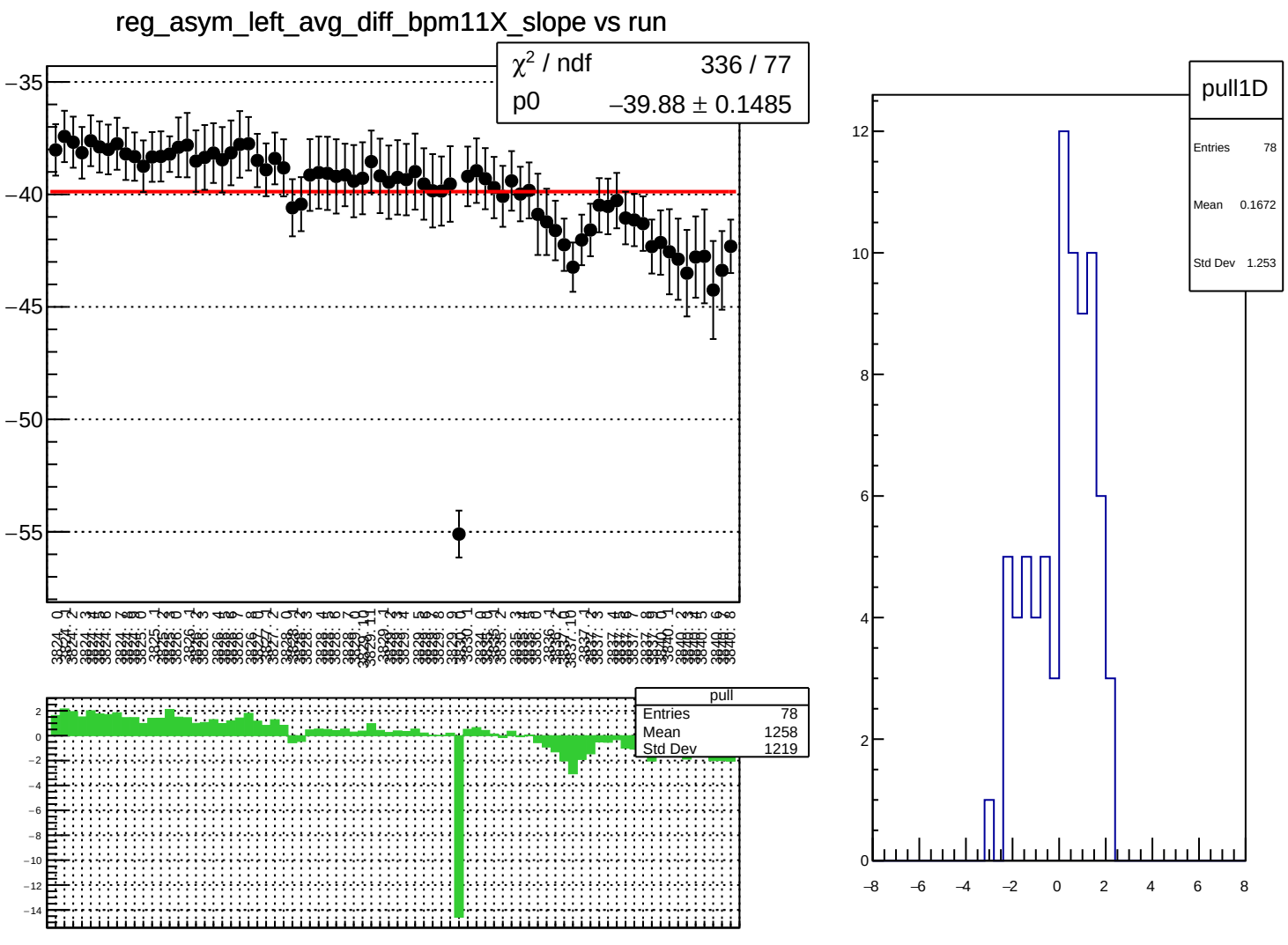

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.47 / 77
p0 −2.202 ± 0.5188
pull
Entries 78
Mean 175.2
Std Dev 133.5

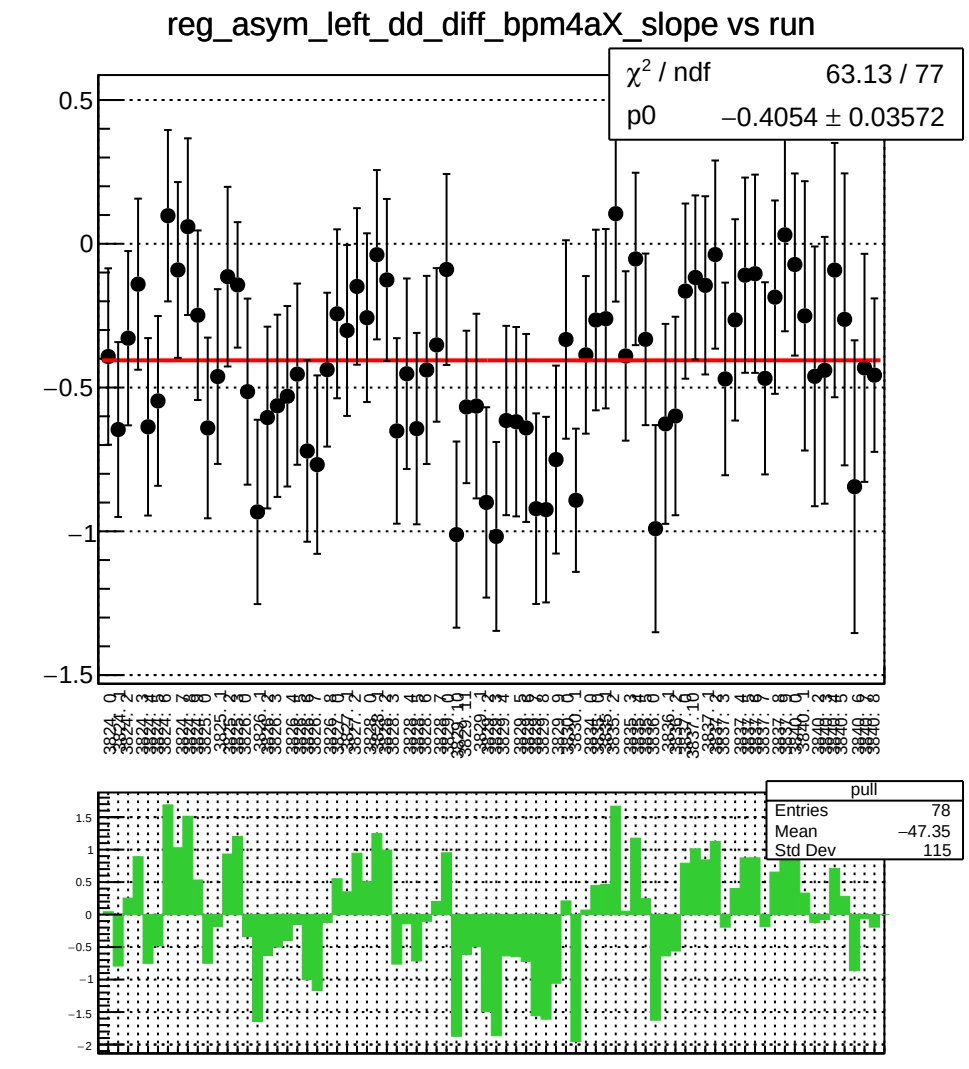

pull1D
Entries 78
Mean −0.03316
Std Dev 0.4855

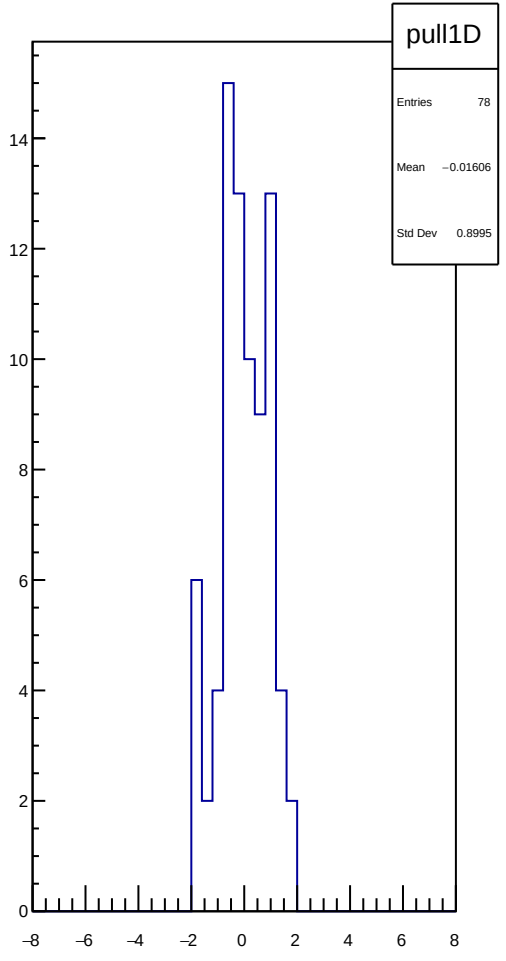

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 135.2 / 77
p0 −63.12 ± 0.1221
pull
Entries 78
Mean 186.4
Std Dev 142.3
pull1D
Entries 78
Mean −0.1579
Std Dev 1.307

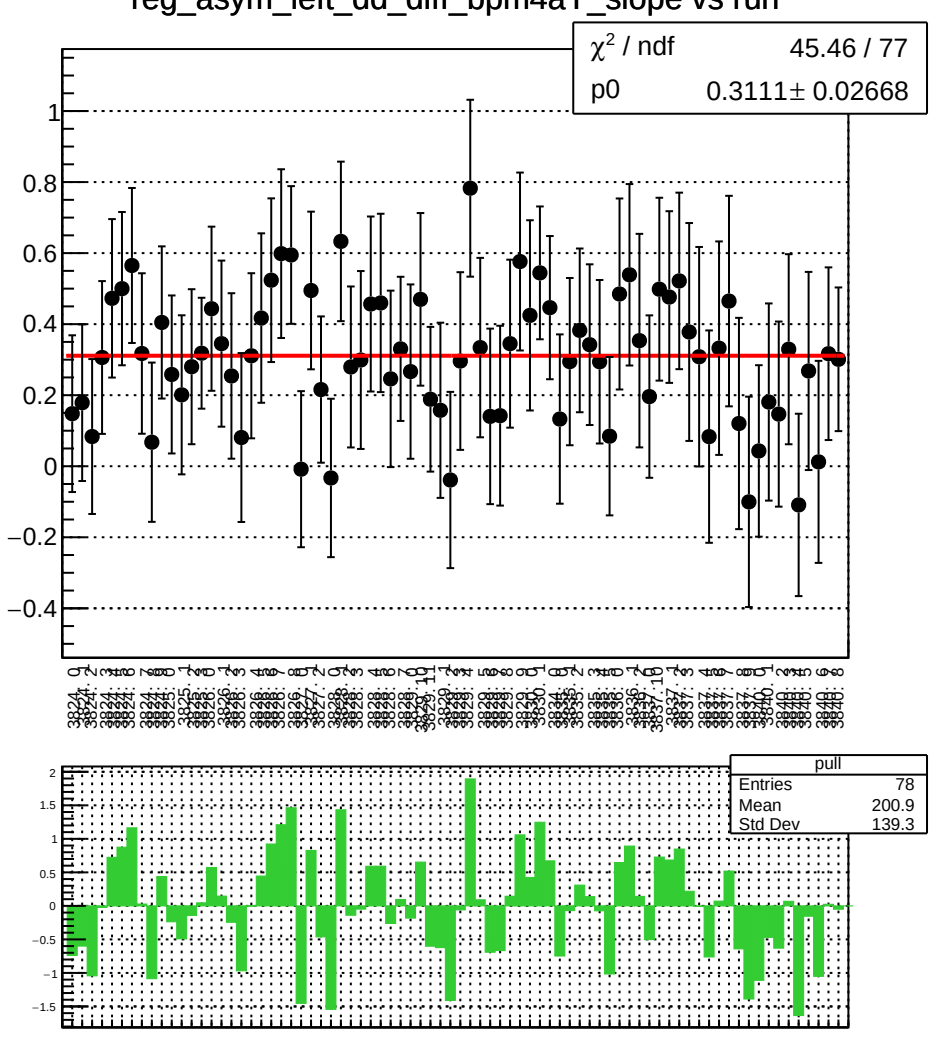

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.728 / 77
p0 15.19 ± 0.8073
pull
Entries 78
Mean −4358
Std Dev 4393

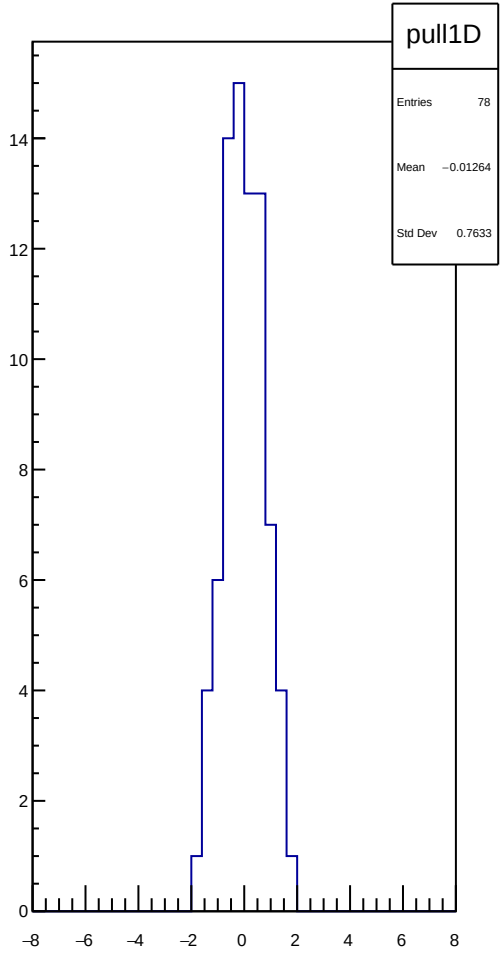

pull1D
Entries 78
Mean −0.0003006
Std Dev 0.271

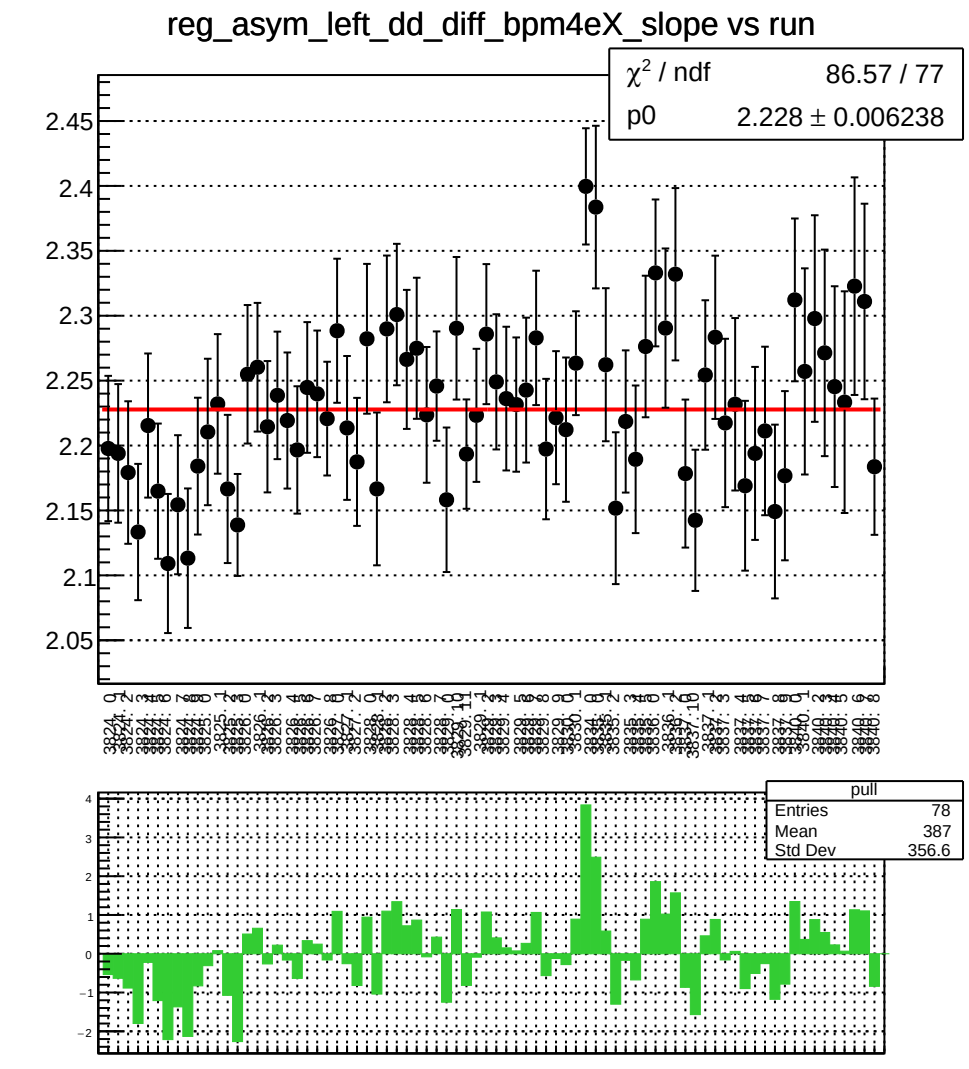

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 336 / 77
p0 −39.88 ± 0.1485
pull
Entries 78
Mean 1258
Std Dev 1219
pull1D
Entries 78
Mean 0.1672
Std Dev 1.253

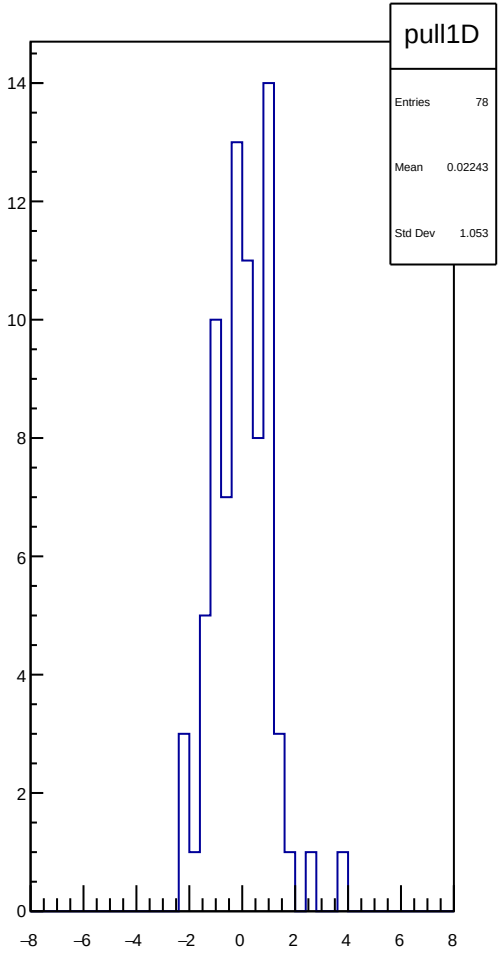

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 63.13 / 77
p0 −0.4054 ± 0.03572
pull
Entries 78
Mean −47.35
Std Dev 115

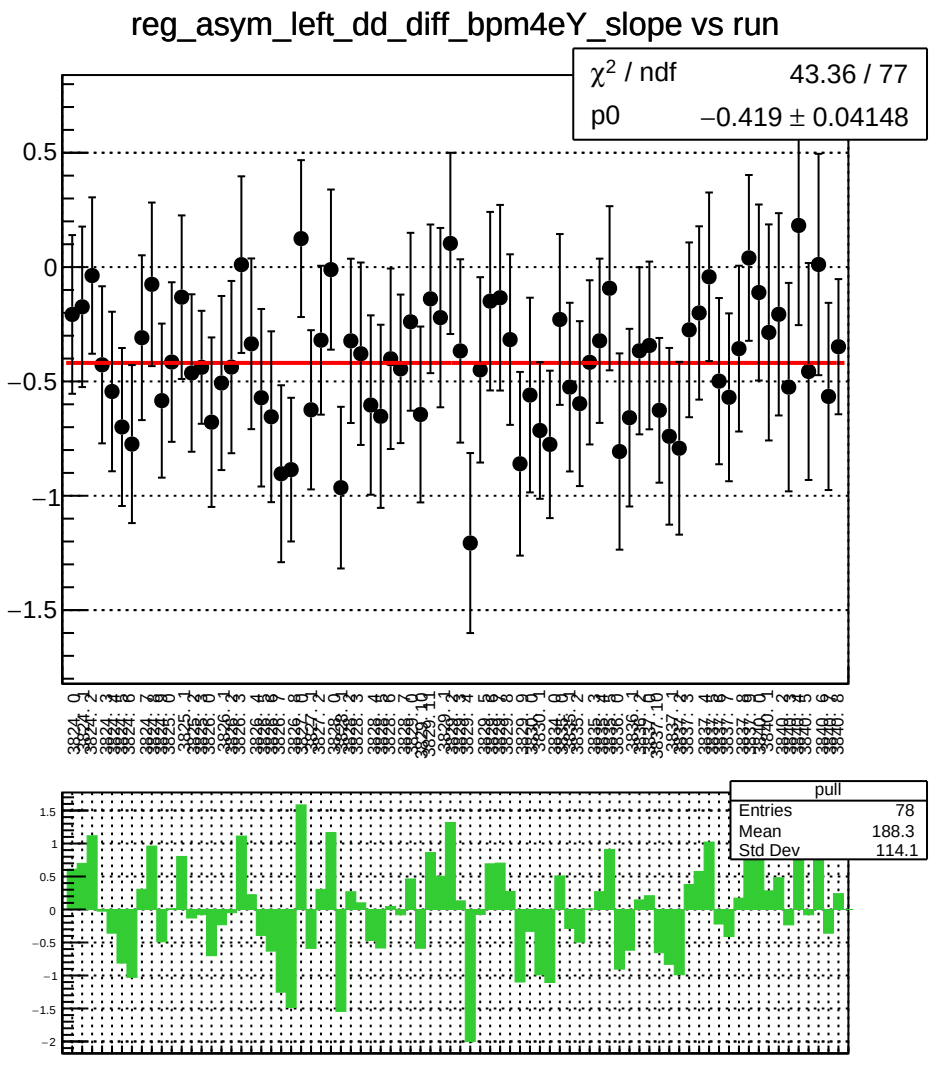

pull1D
Entries 78
Mean −0.01606
Std Dev 0.8995

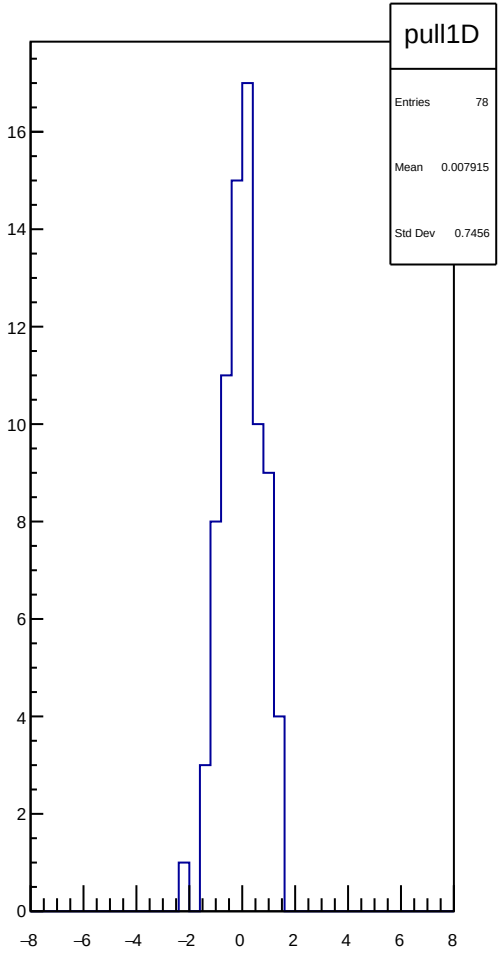

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.46 / 77
p0 0.3111± 0.02668
pull
Entries 78
Mean 200.9
Std Dev 139.3

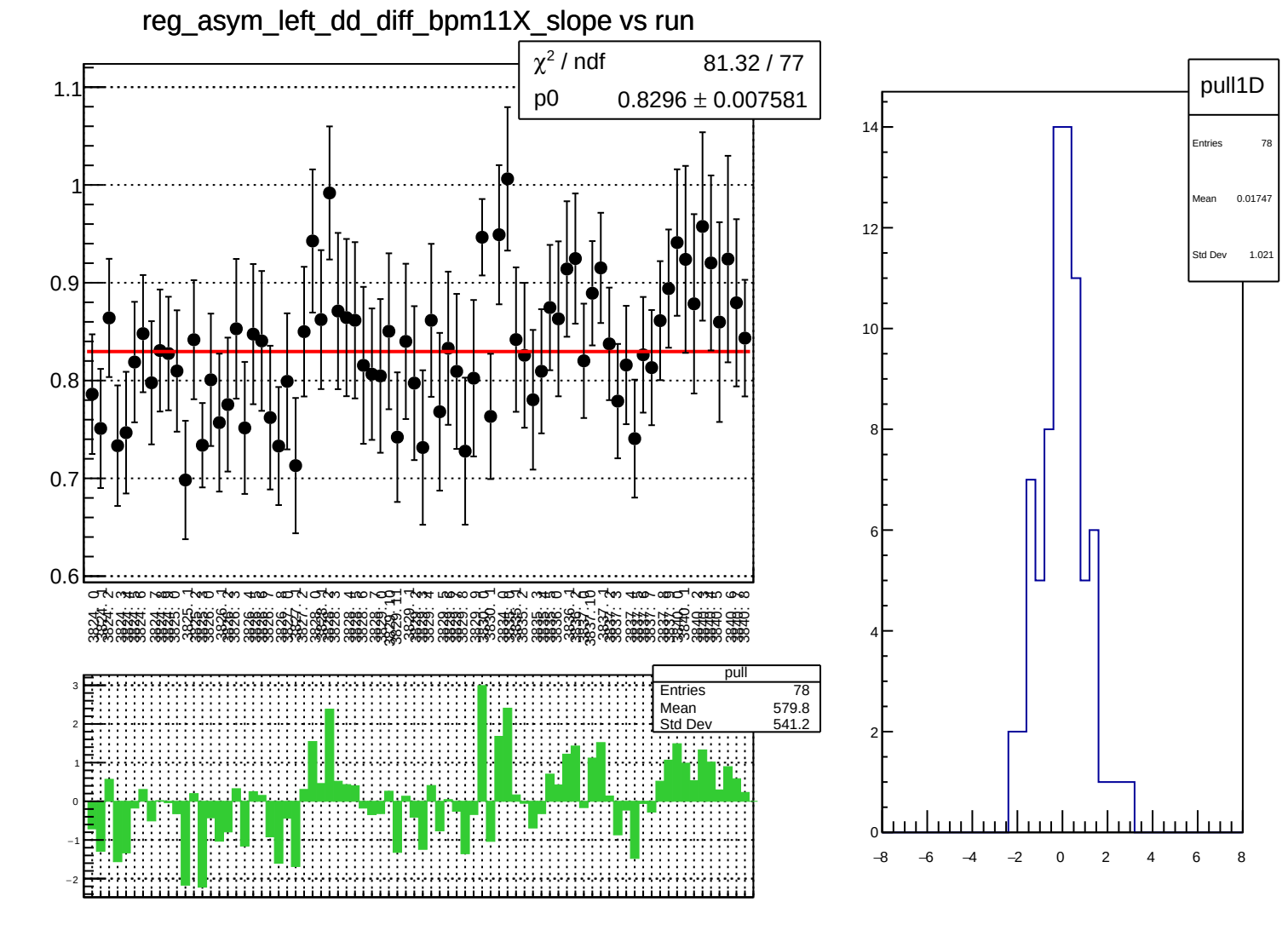

pull1D
Entries 78
Mean −0.01264
Std Dev 0.7633

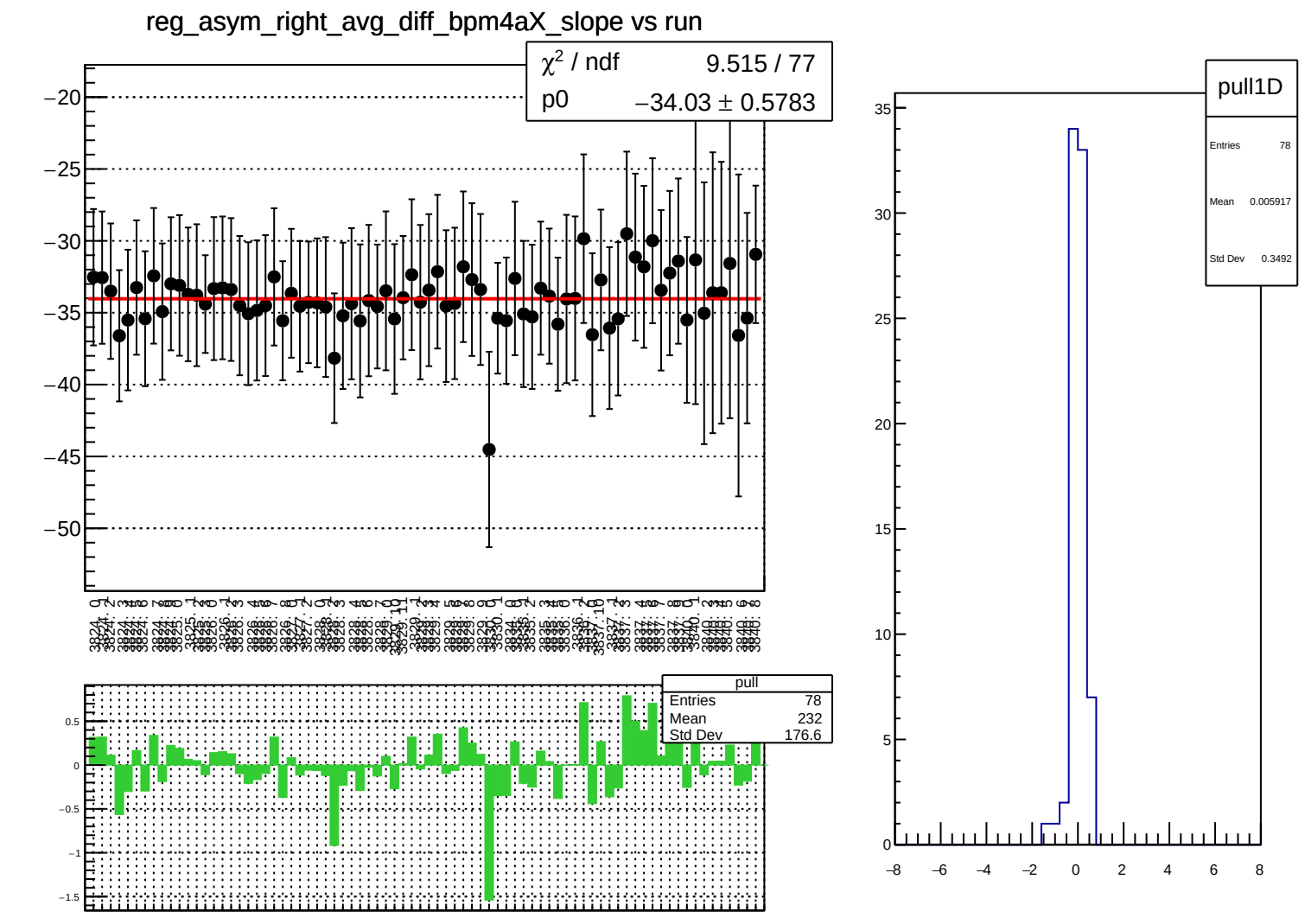

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 86.57 / 77
p0 2.228 ± 0.006238
pull
Entries 78
Mean 387
Std Dev 356.6

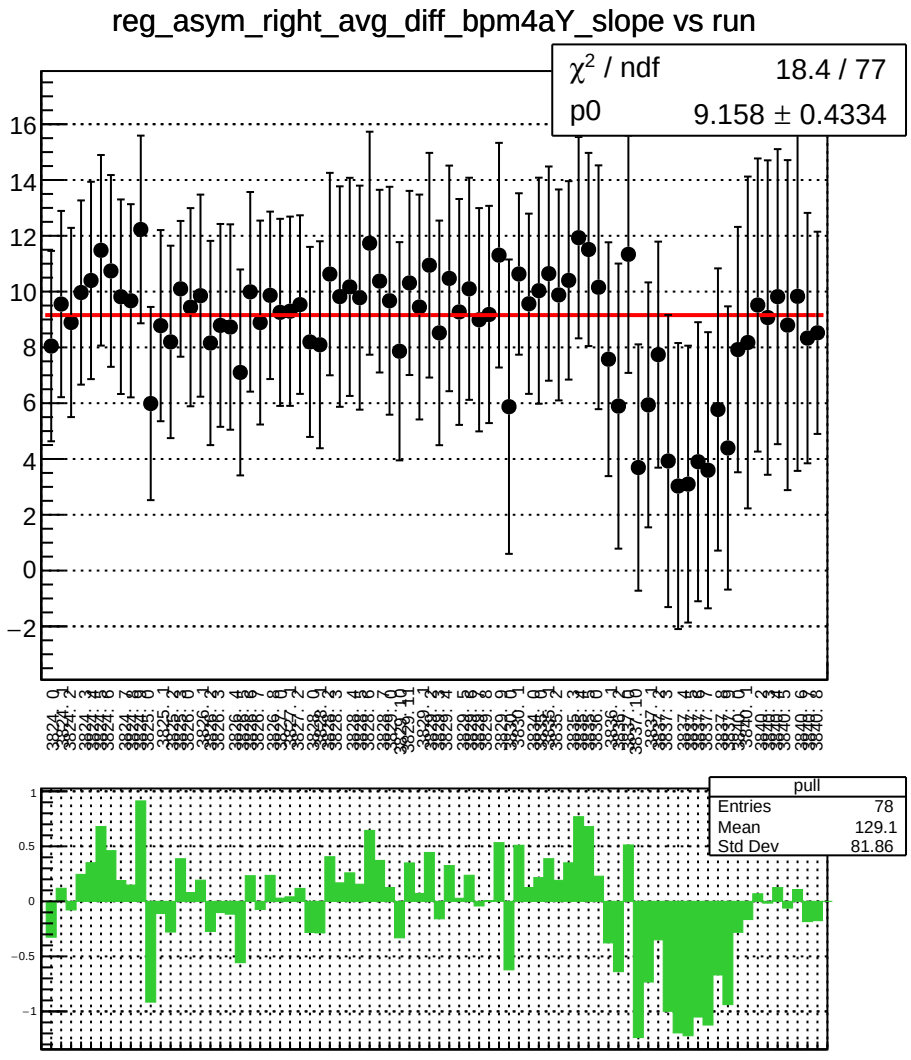

pull1D
Entries 78
Mean 0.02243
Std Dev 1.053

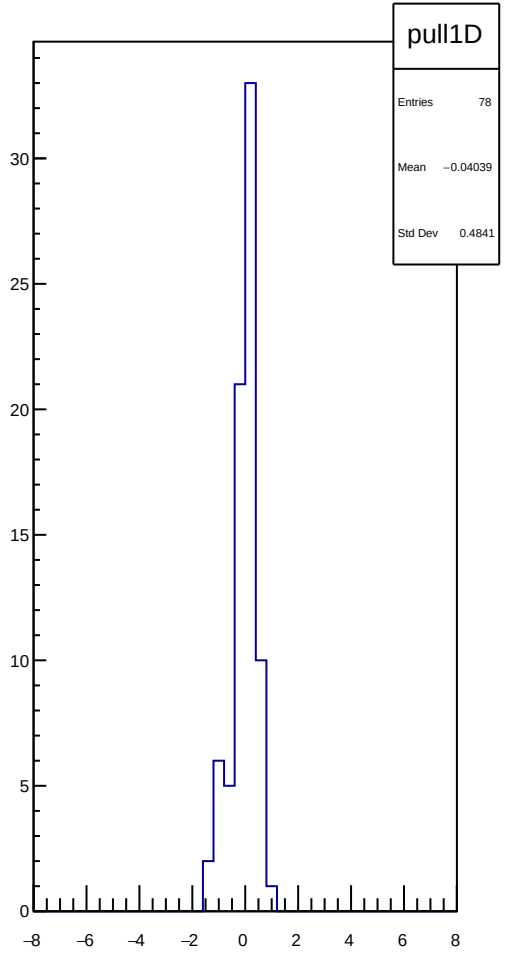

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.36 / 77
p0 −0.419 ± 0.04148
pull
Entries 78
Mean 188.3
Std Dev 114.1

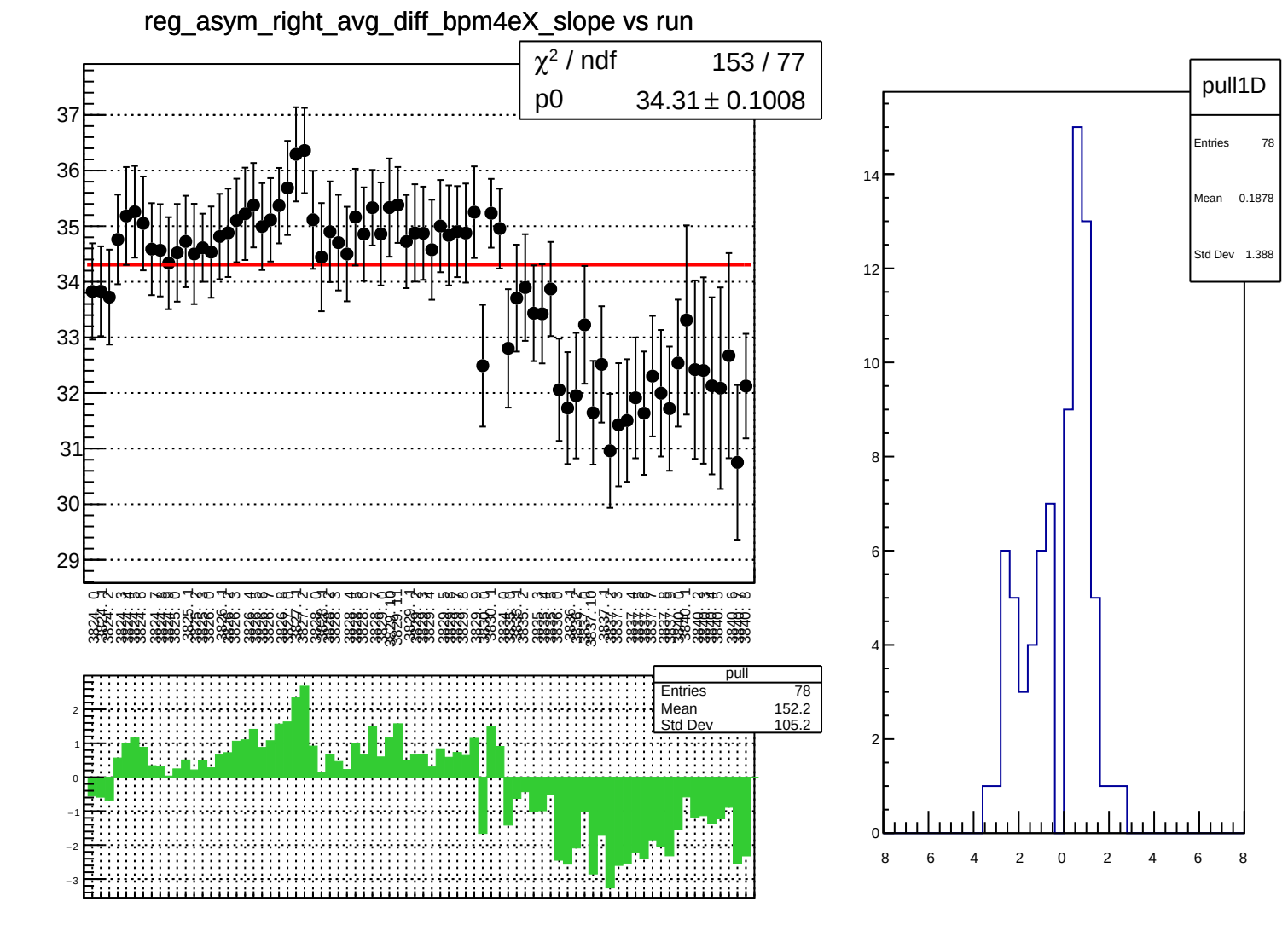

pull1D
Entries 78
Mean 0.007915
Std Dev 0.7456

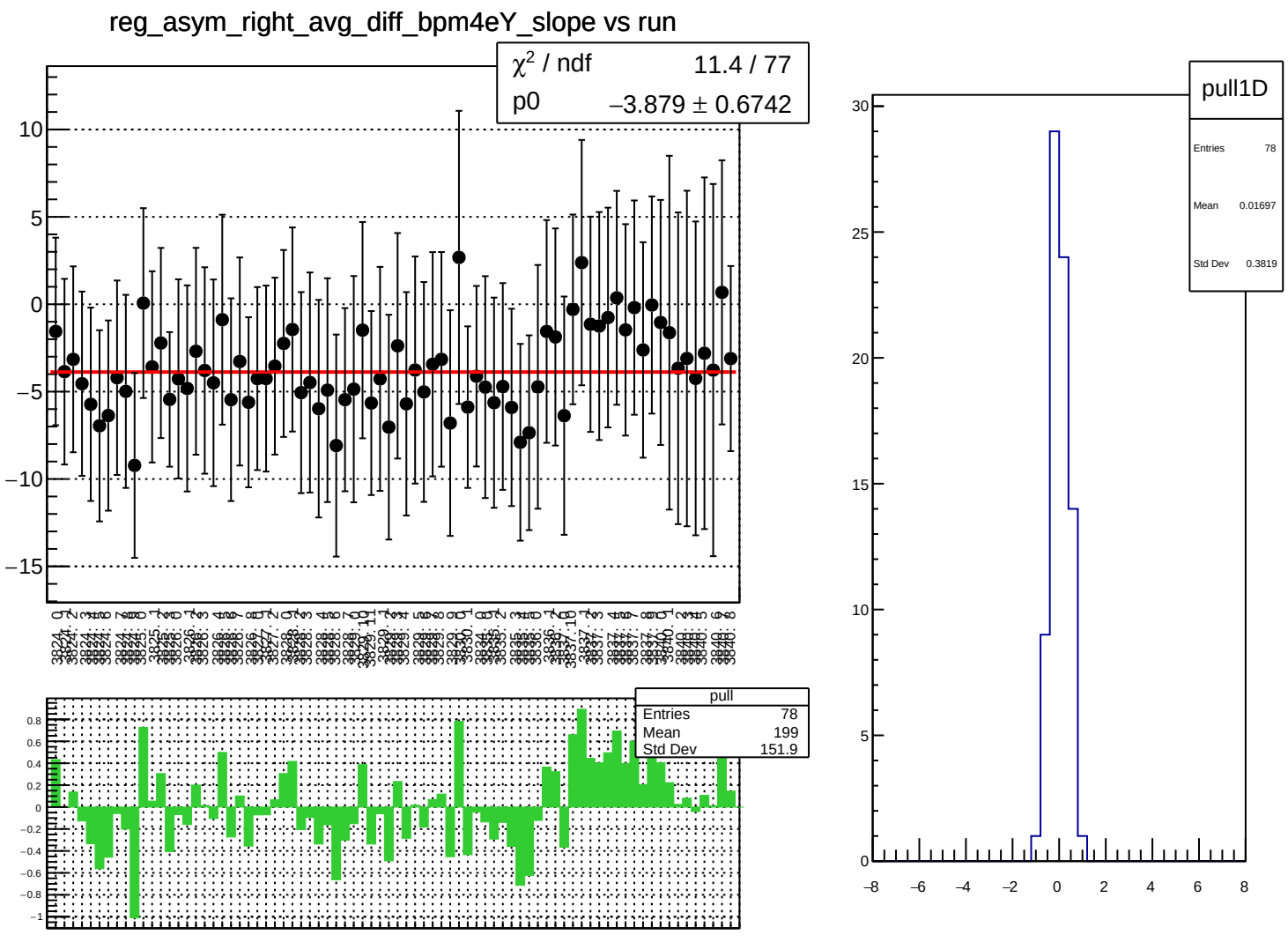

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 81.32 / 77
p0 0.8296 ± 0.007581
pull
Entries 78
Mean 579.8
Std Dev 541.2
pull1D
Entries 78
Mean 0.01747
Std Dev 1.021

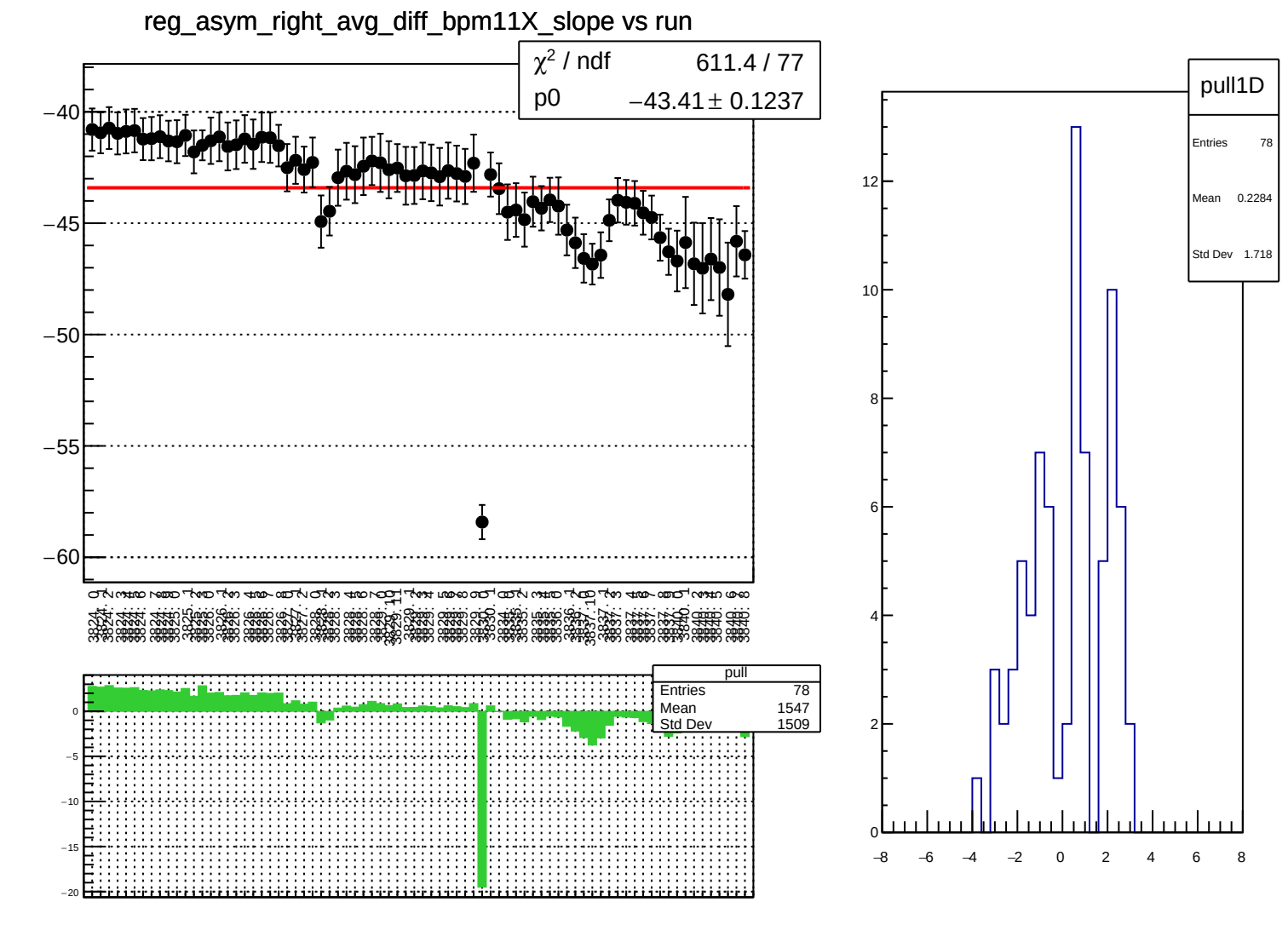

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 9.515 / 77
p0 −34.03 ± 0.5783
pull
Entries 78
Mean 232
Std Dev 176.6
pull1D
Entries 78
Mean 0.005917
Std Dev 0.3492

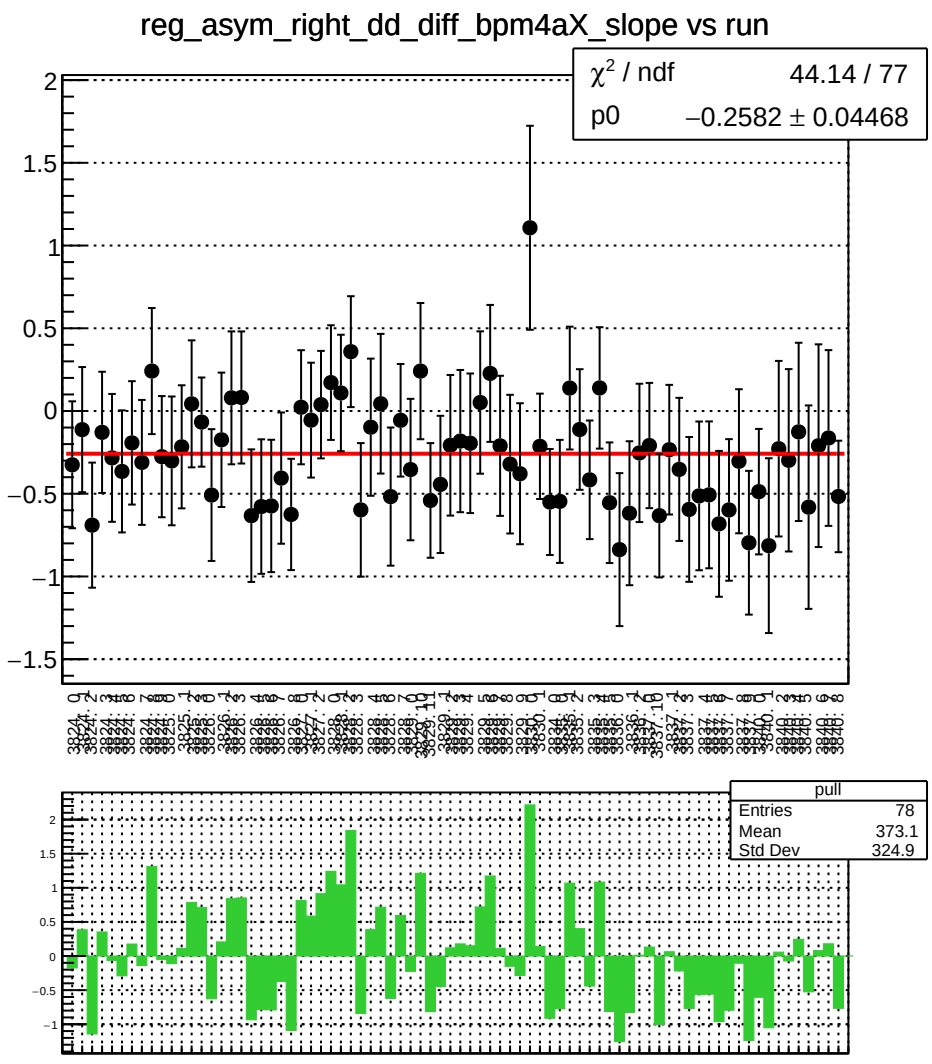

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.4 / 77
p0 9.158 ± 0.4334
pull
Entries 78
Mean 129.1
Std Dev 81.86

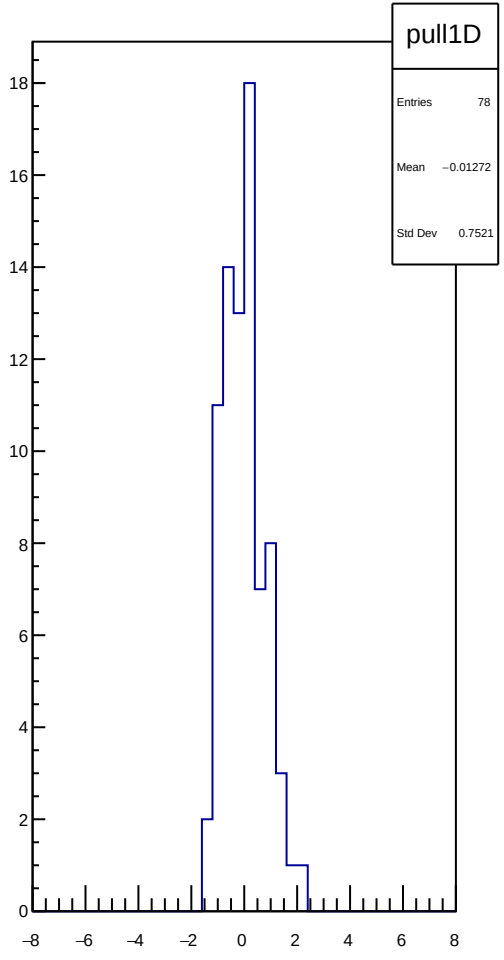

pull1D
Entries 78
Mean −0.04039
Std Dev 0.4841

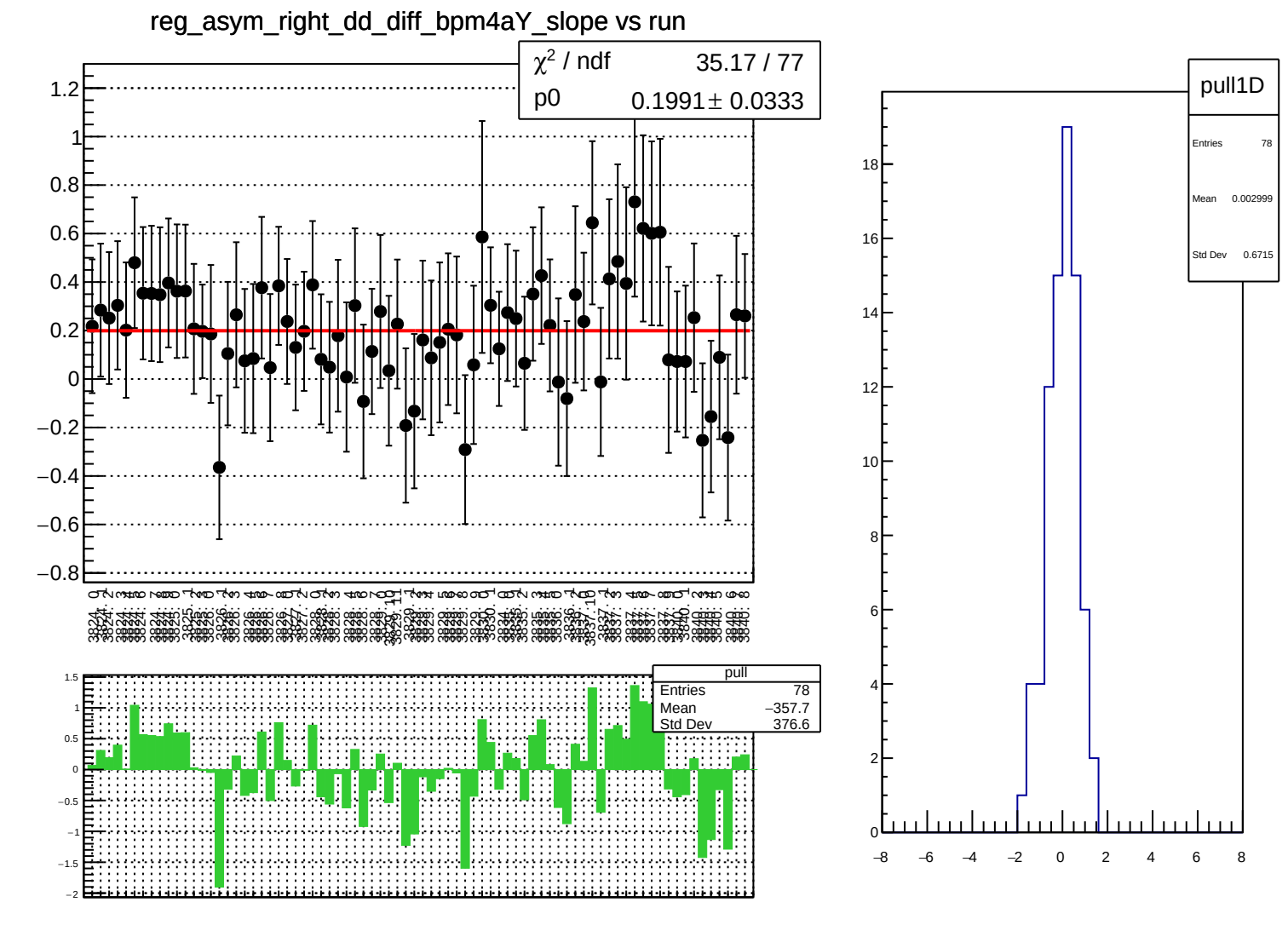

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 153 / 77
p0 34.31 ± 0.1008
pull
Entries 78
Mean 152.2
Std Dev 105.2
pull1D
Entries 78
Mean −0.1878
Std Dev 1.388

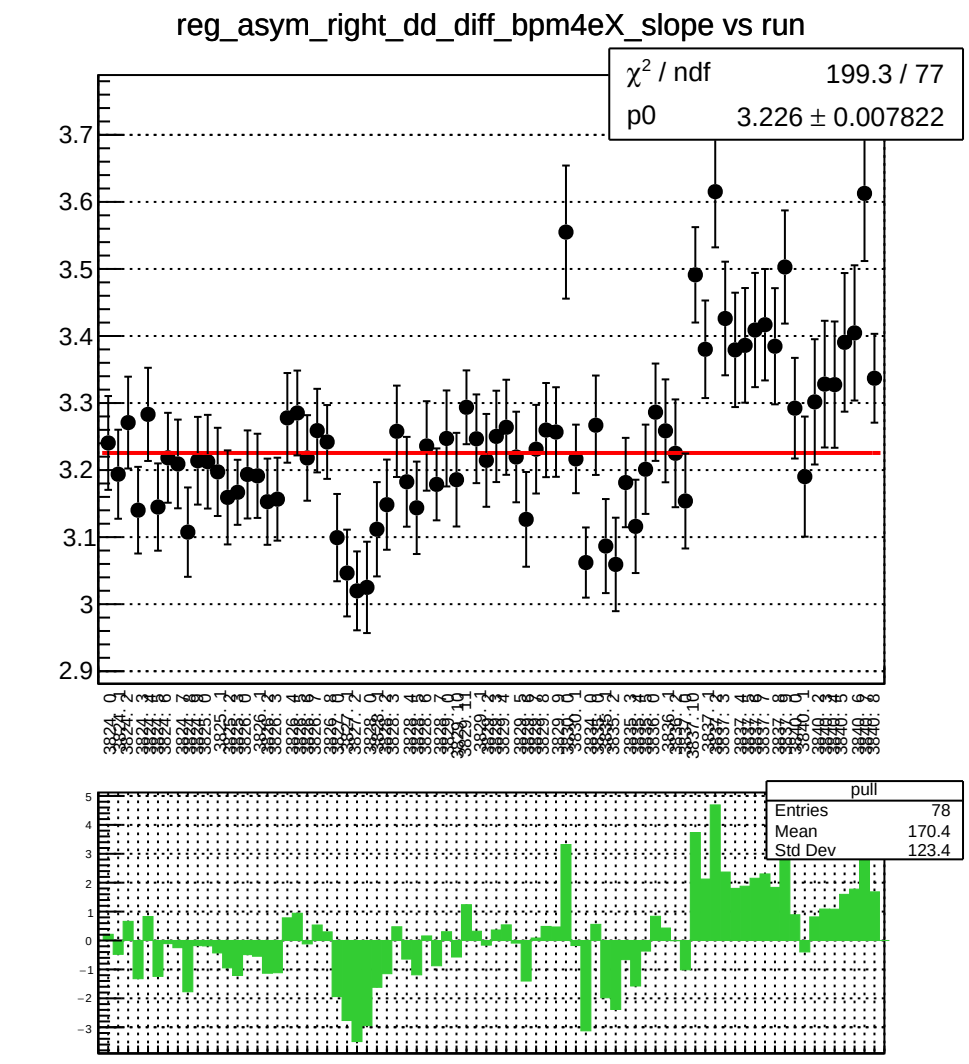

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.4 / 77
p0 −3.879 ± 0.6742
pull
Entries 78
Mean 199
Std Dev 151.9
pull1D
Entries 78
Mean 0.01697
Std Dev 0.3819

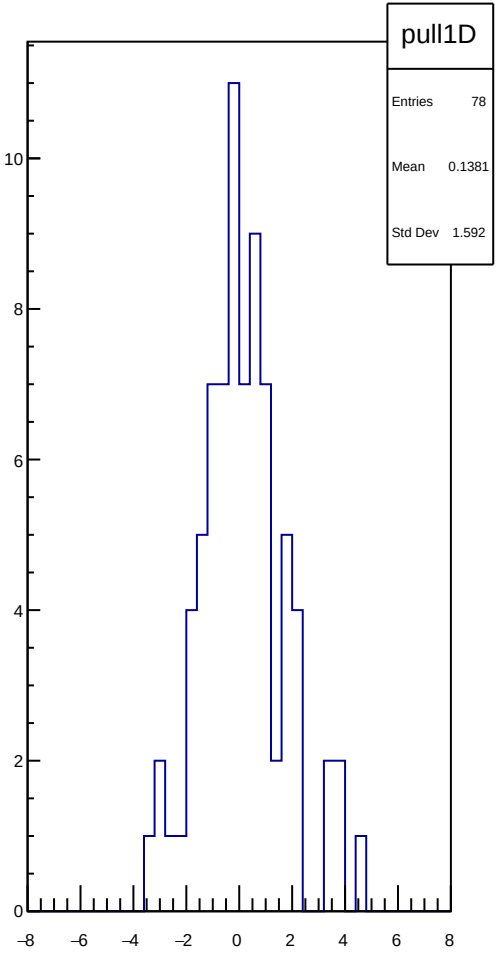

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 611.4 / 77
p0 −43.41 ± 0.1237
pull
Entries 78
Mean 1547
Std Dev 1509
pull1D
Entries 78
Mean 0.2284
Std Dev 1.718

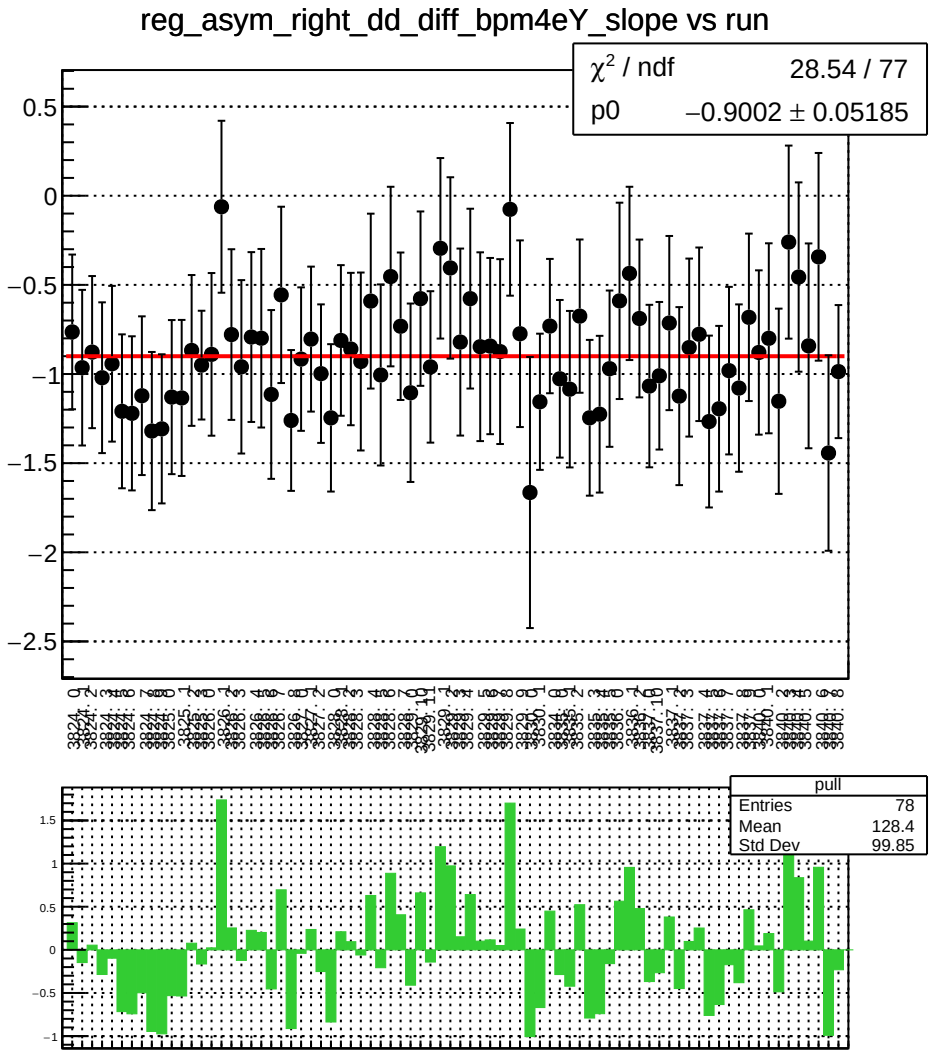

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 44.14 / 77
p0 −0.2582 ± 0.04468
pull
Entries 78
Mean 373.1
Std Dev 324.9

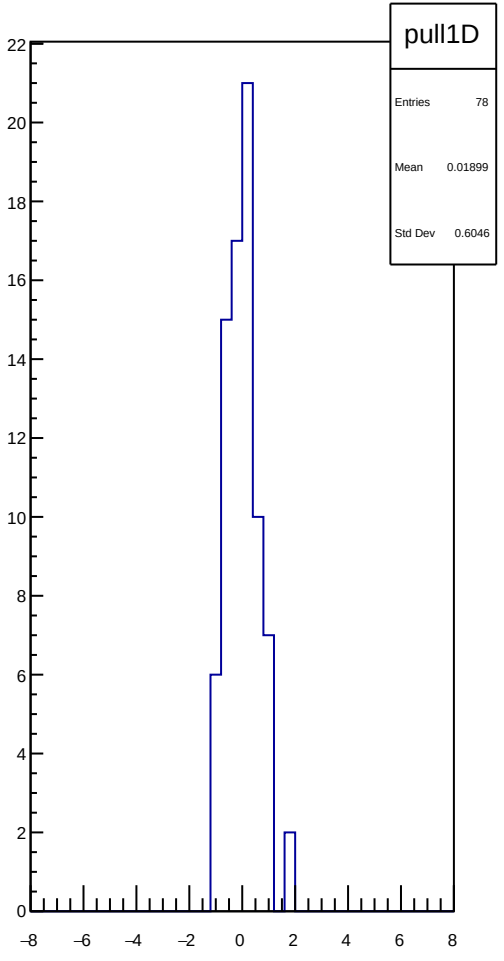

pull1D
Entries 78
Mean −0.01272
Std Dev 0.7521

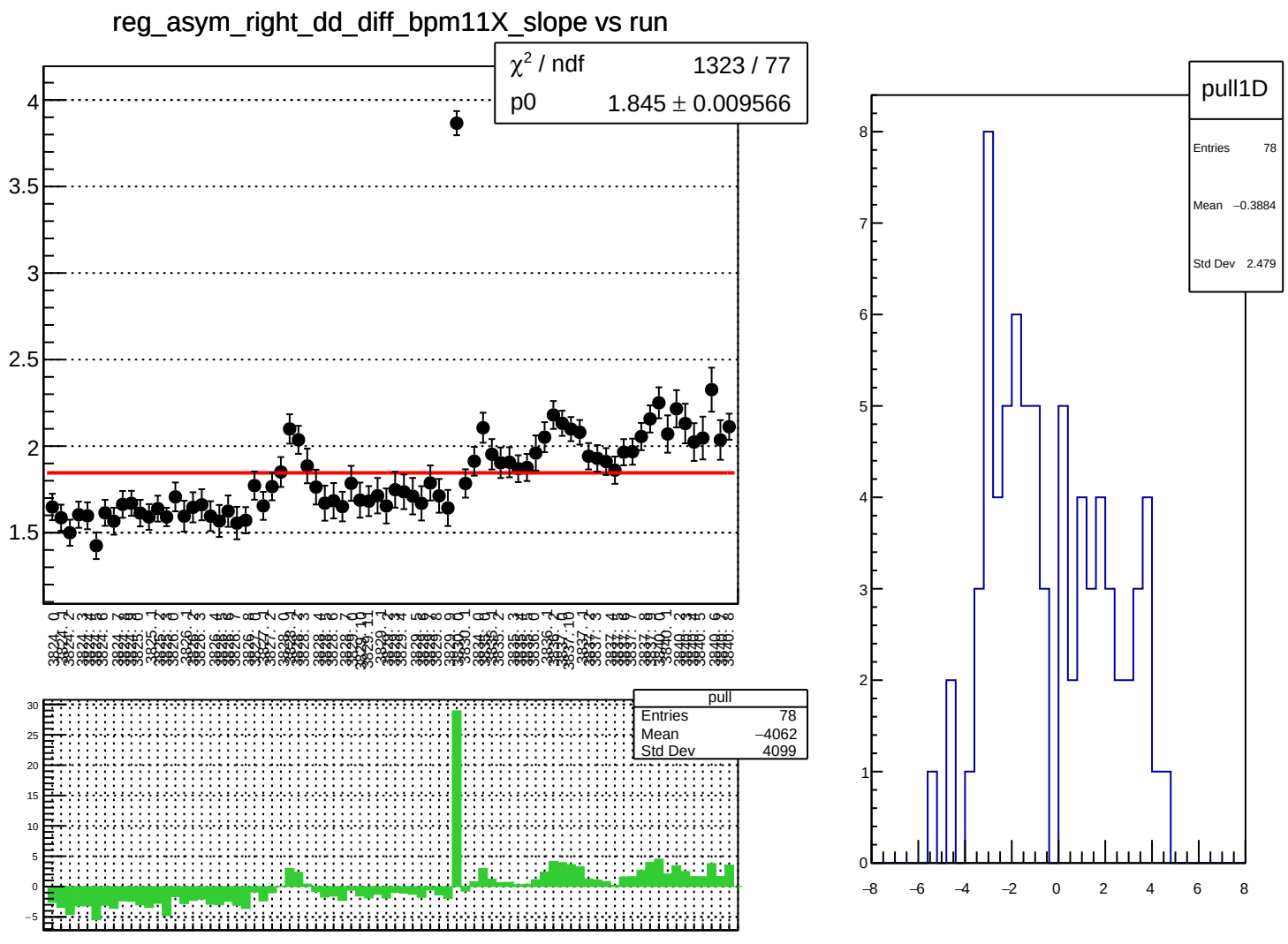

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.17 / 77
p0 0.1991 ± 0.0333
pull
Entries 78
Mean −357.7
Std Dev 376.6
pull1D
Entries 78
Mean 0.002999
Std Dev 0.6715

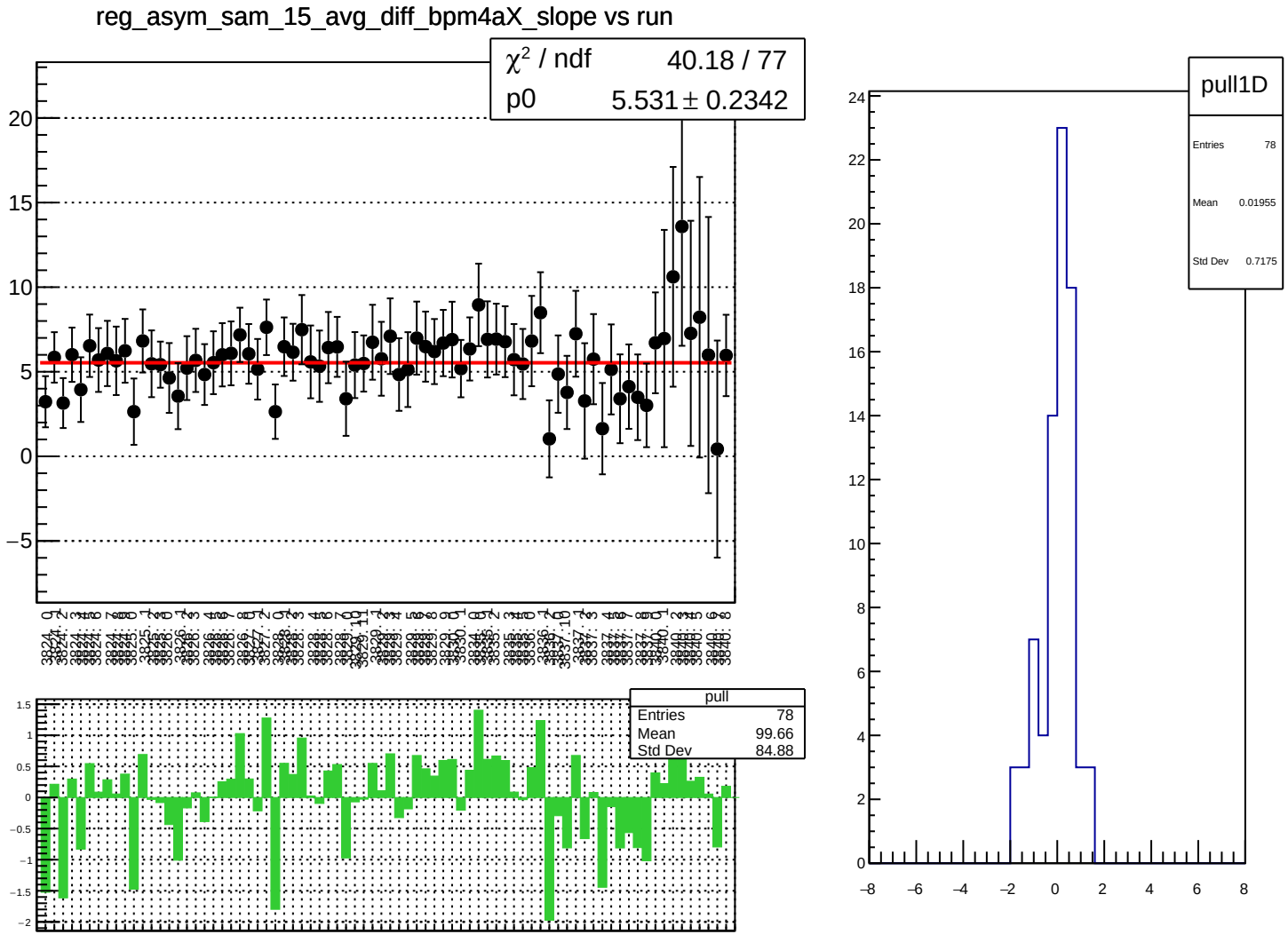

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 199.3 / 77
p0 3.226 ± 0.007822
pull
Entries 78
Mean 170.4
Std Dev 123.4

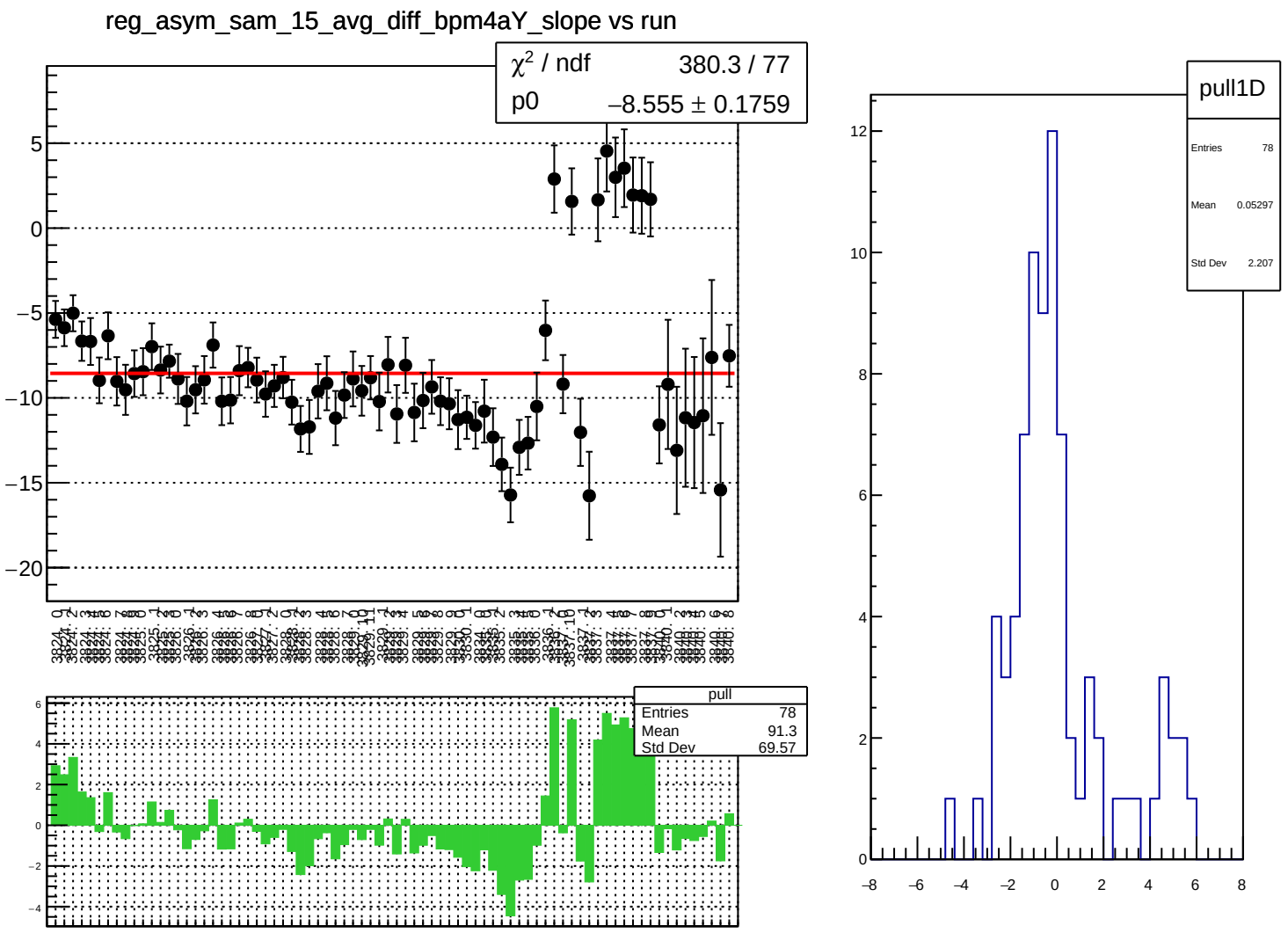

pull1D
Entries 78
Mean 0.1381
Std Dev 1.592

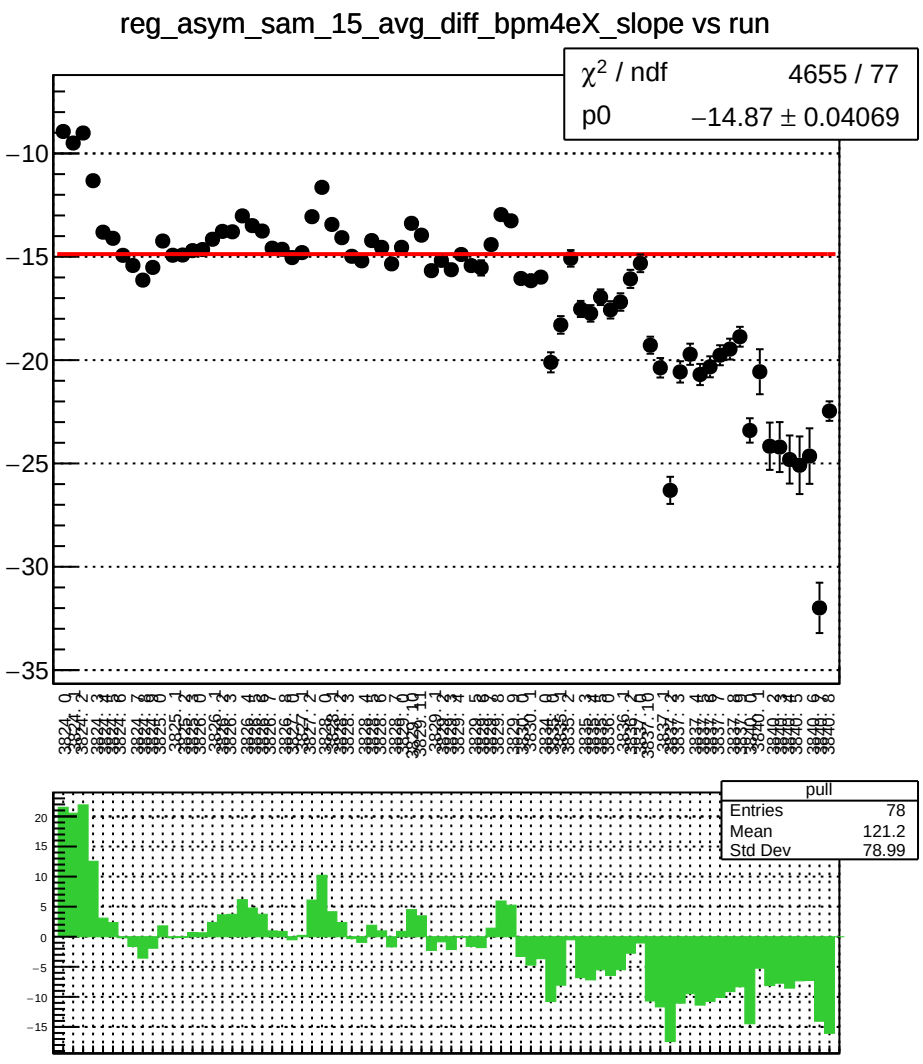

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.54 / 77
p0 −0.9002 ± 0.05185
pull
Entries 78
Mean 128.4
Std Dev 99.85

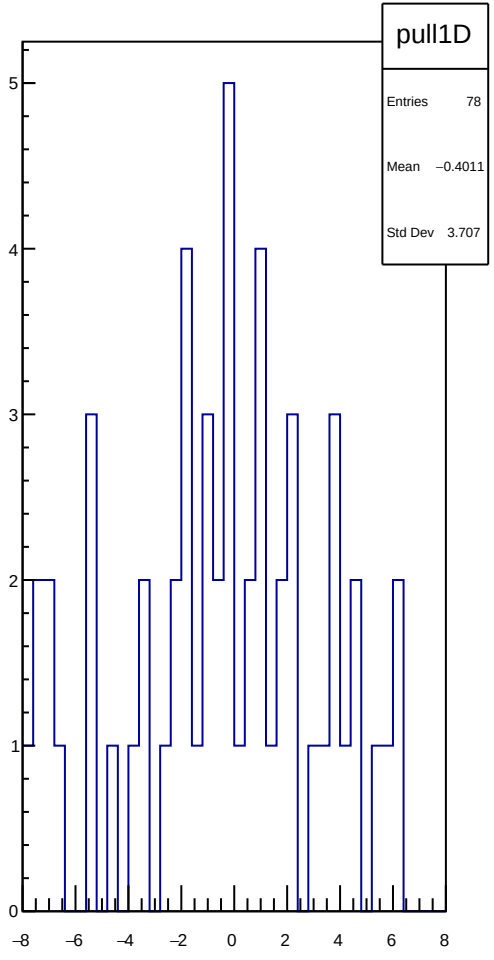

pull1D
Entries 78
Mean 0.01899
Std Dev 0.6046

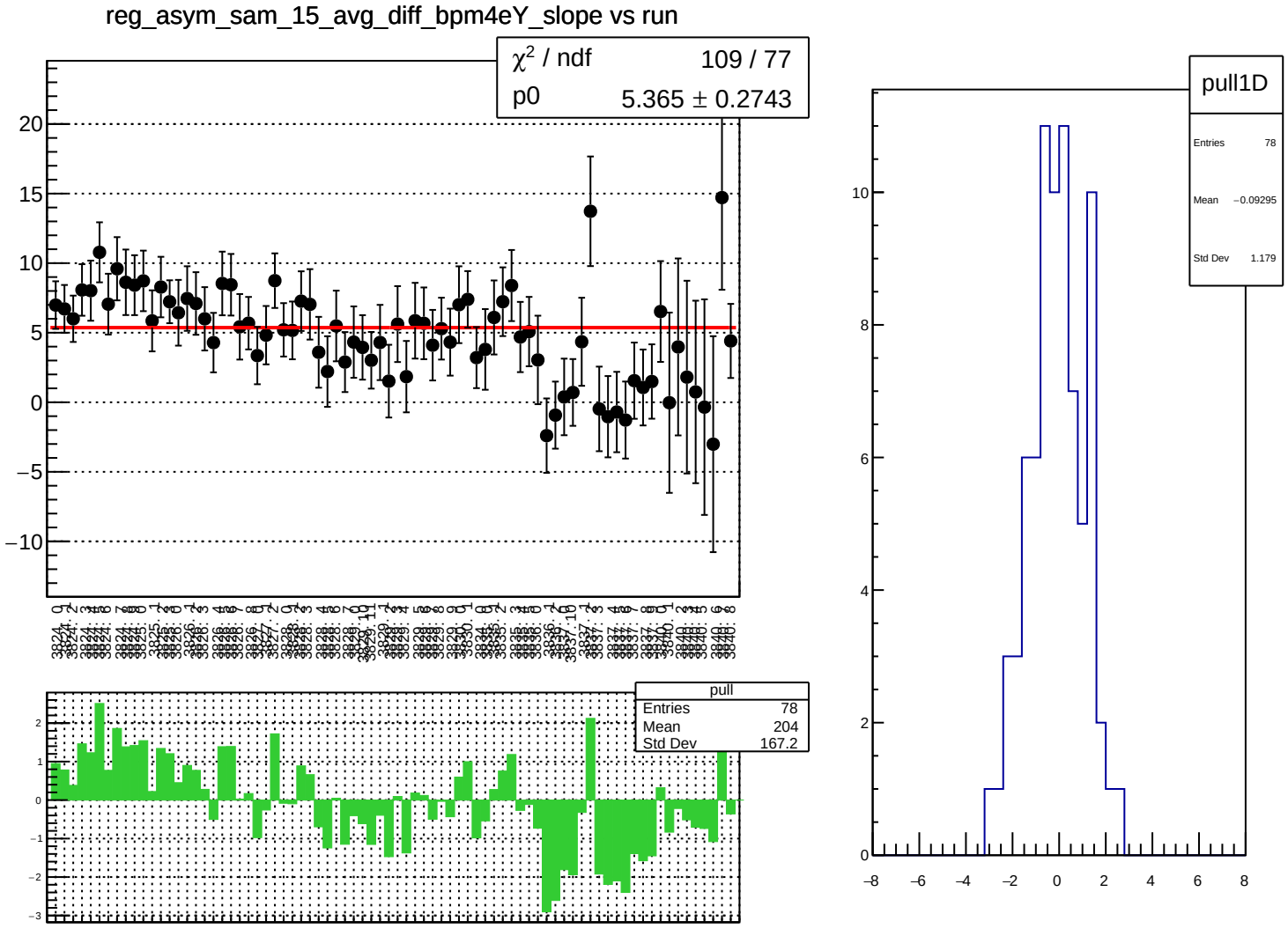

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 1323 / 77
p0 1.845 ± 0.009566
pull
Entries 78
Mean −4062
Std Dev 4099
pull1D
Entries 78
Mean −0.3884
Std Dev 2.479

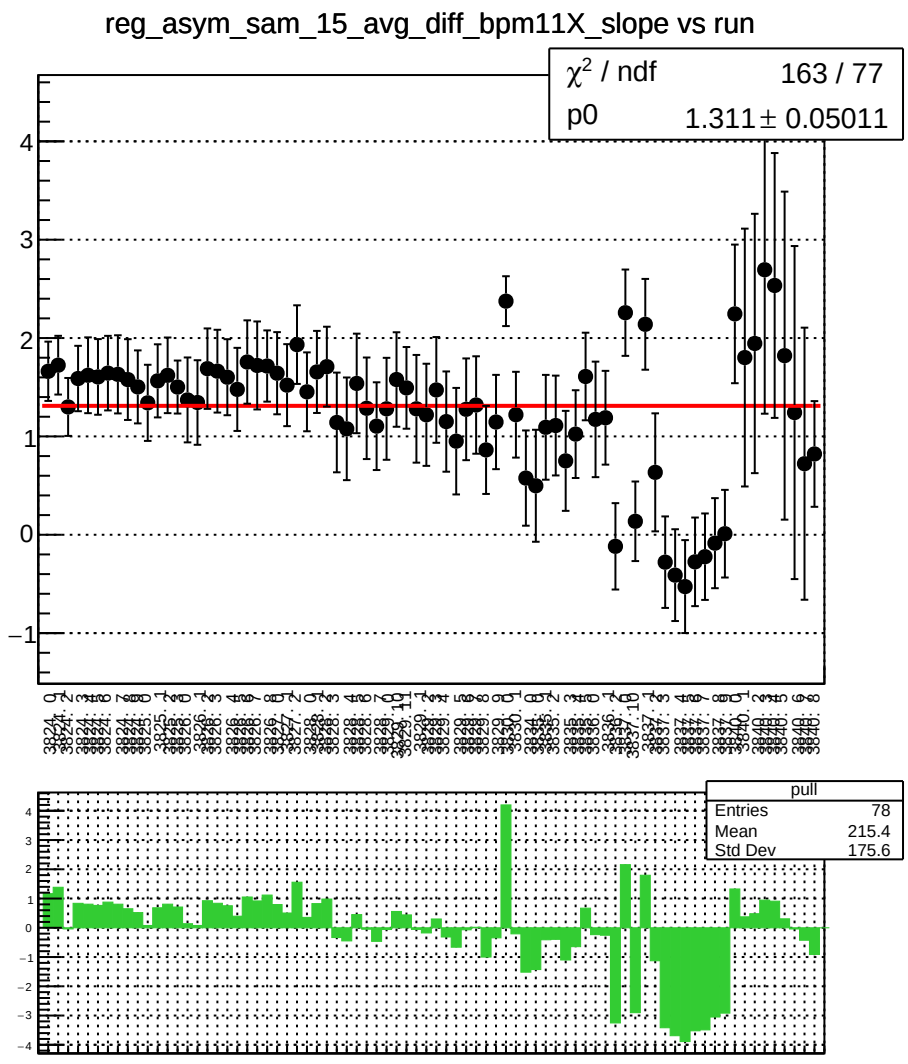

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 40.18 / 77
p0 5.531 ± 0.2342
pull
Entries 78
Mean 99.66
Std Dev 84.88
pull1D
Entries 78
Mean 0.01955
Std Dev 0.7175

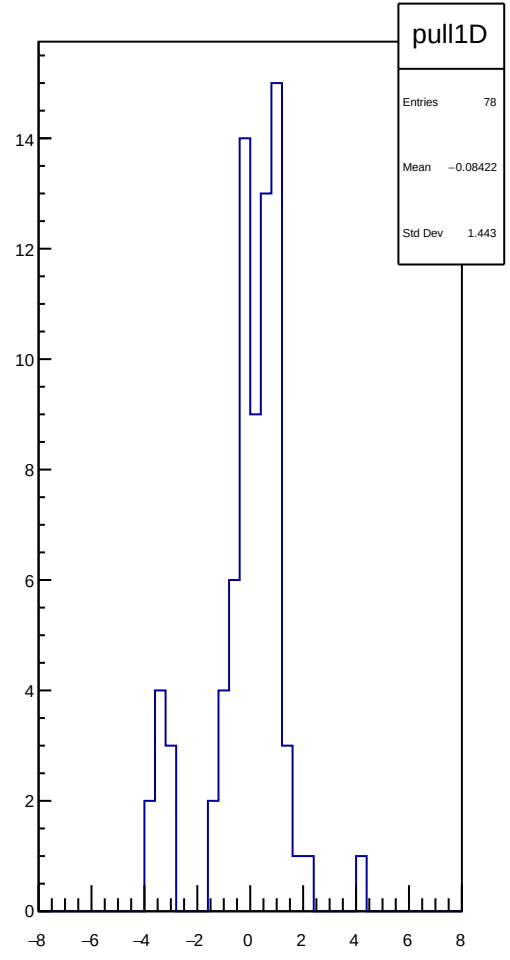

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 380.3 / 77
p0 −8.555 ± 0.1759
pull
Entries 78
Mean 91.3
Std Dev 69.57
pull1D
Entries 78
Mean 0.05297
Std Dev 2.207

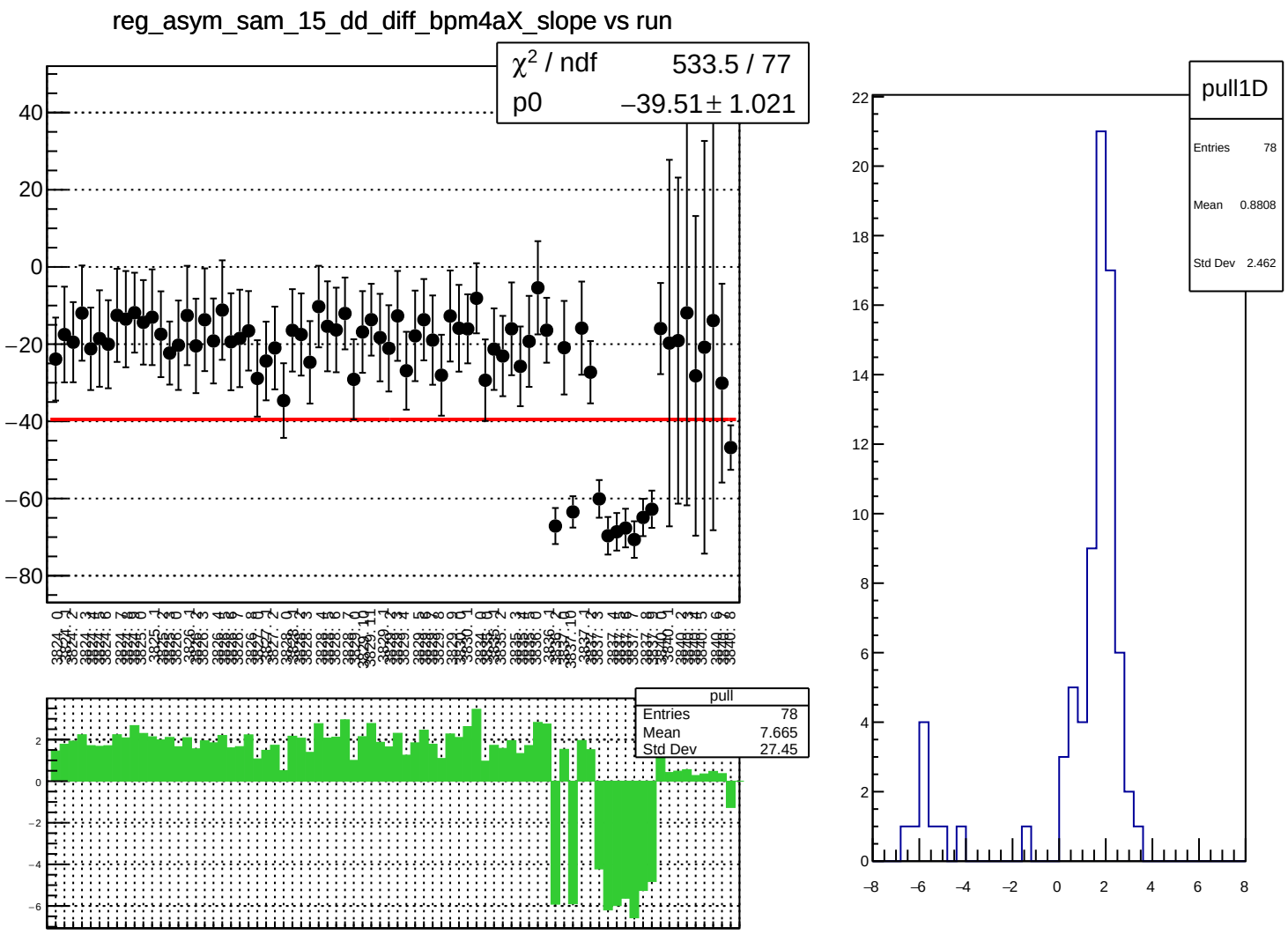

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 4655 / 77
p0 −14.87 ± 0.04069
pull
Entries 78
Mean 121.2
Std Dev 78.99

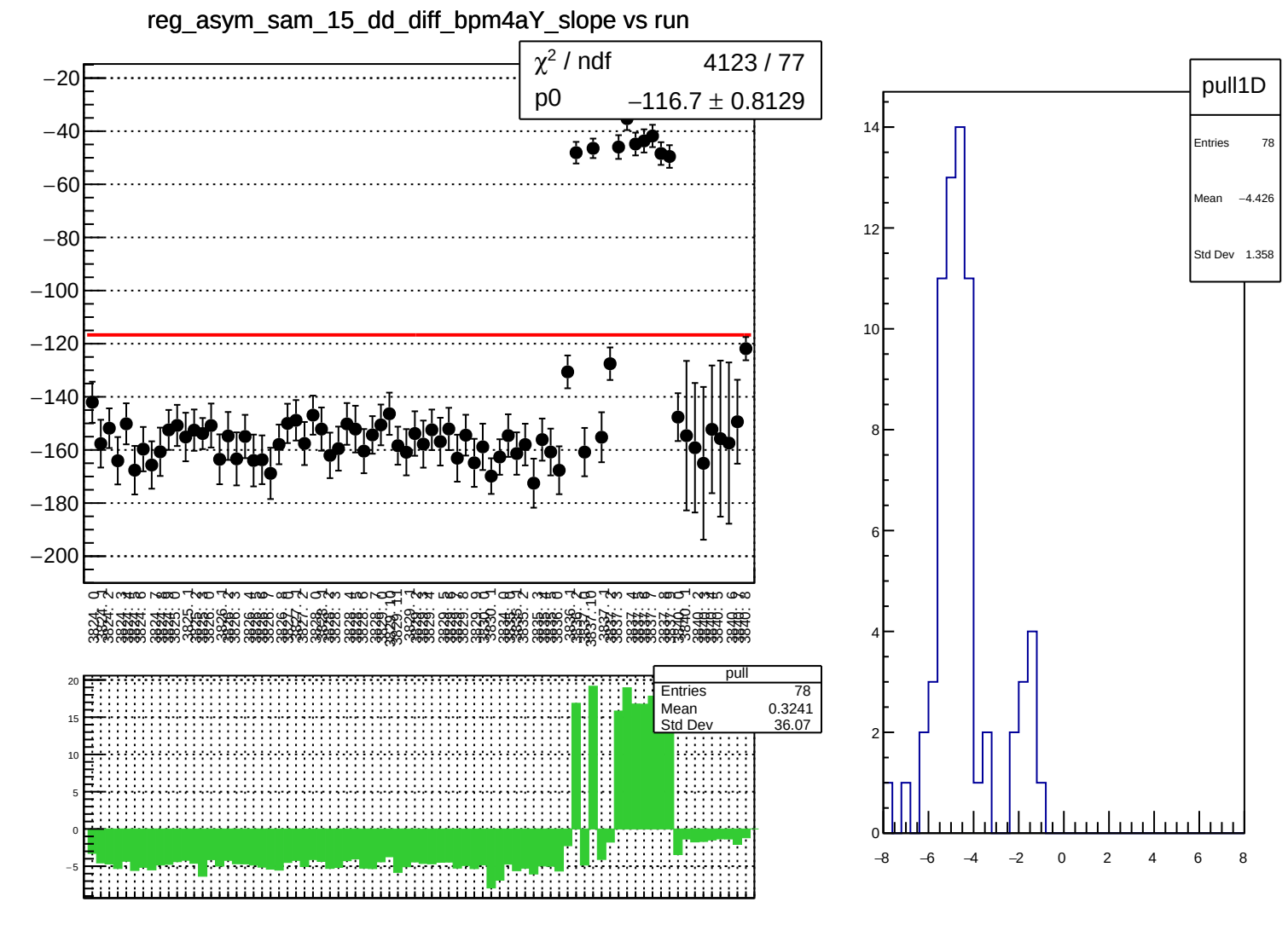

pull1D
Entries 78
Mean −0.4011
Std Dev 3.707

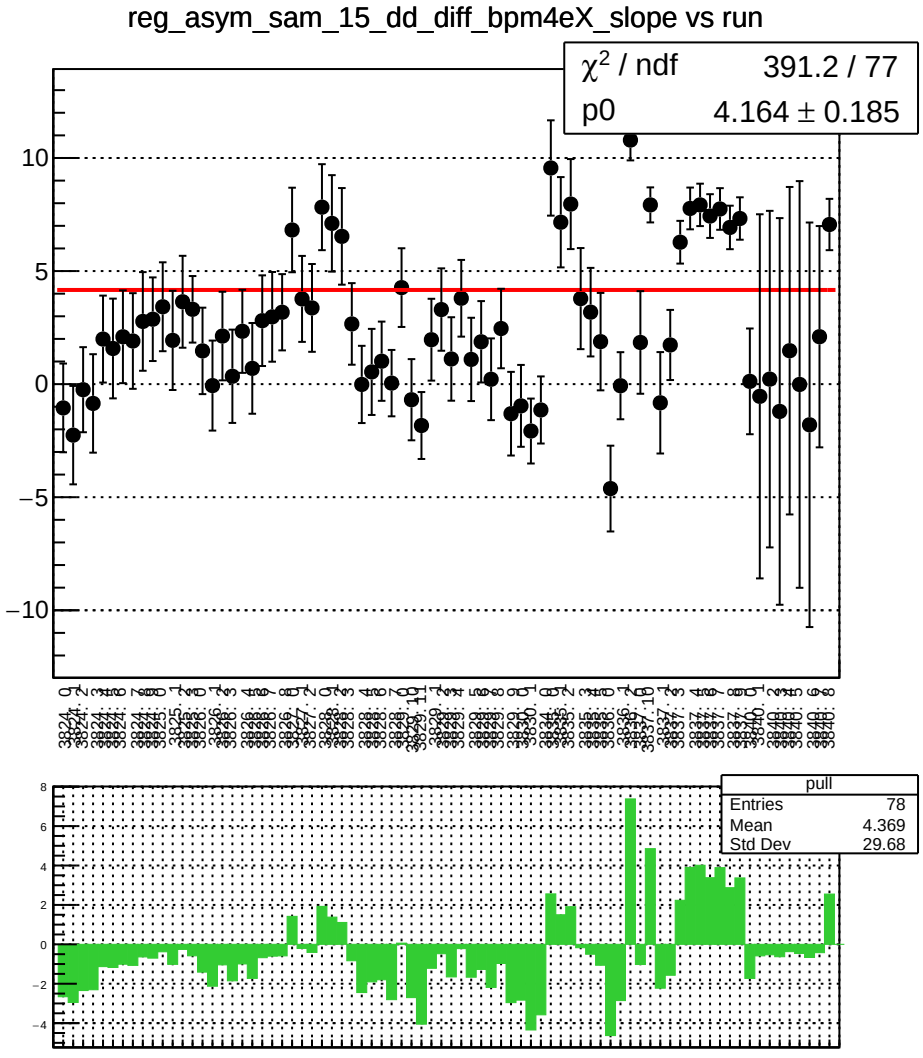

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 109 / 77
p0 5.365 ± 0.2743
pull
Entries 78
Mean 204
Std Dev 167.2
pull1D
Entries 78
Mean −0.09295
Std Dev 1.179

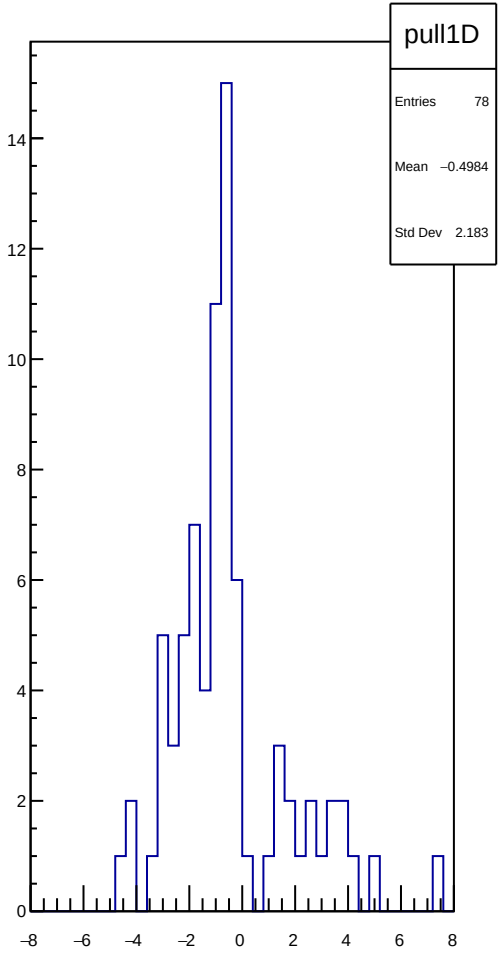

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 163 / 77
p0 1.311 ± 0.05011
pull
Entries 78
Mean 215.4
Std Dev 175.6

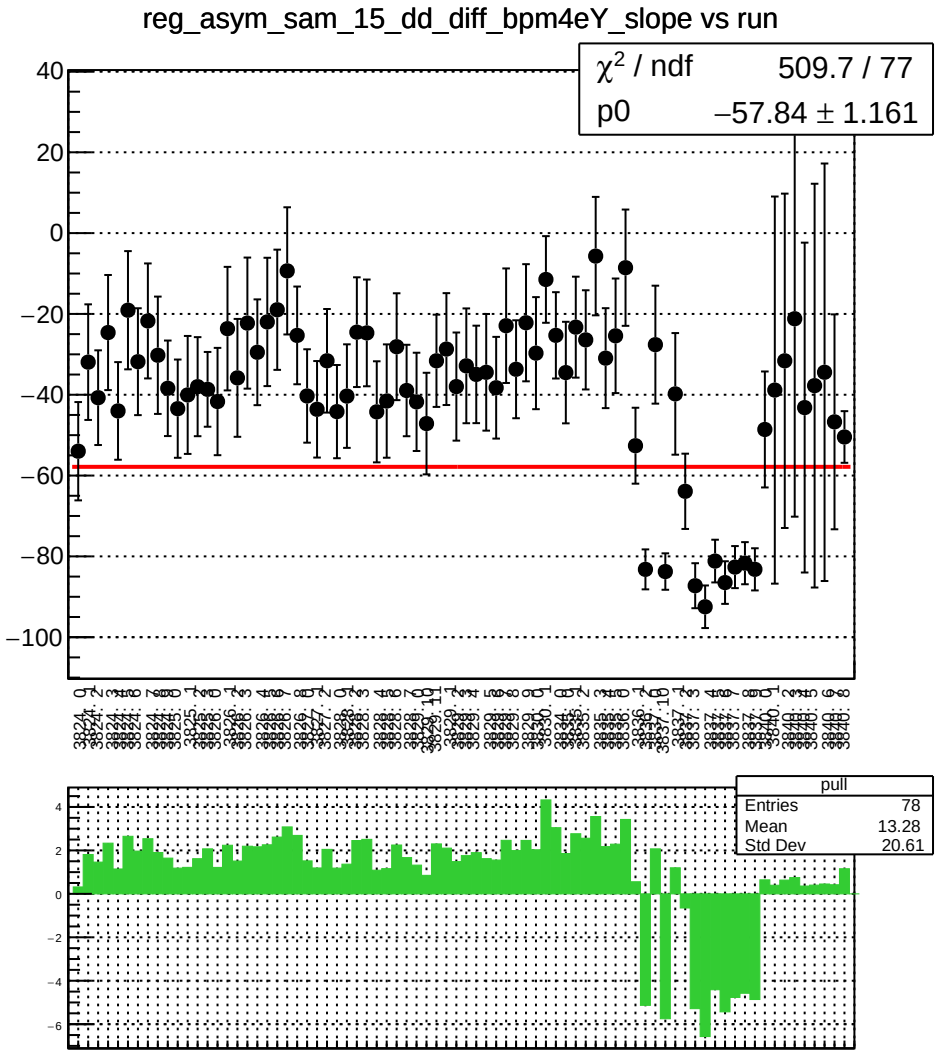

pull1D
Entries 78
Mean −0.08422
Std Dev 1.443

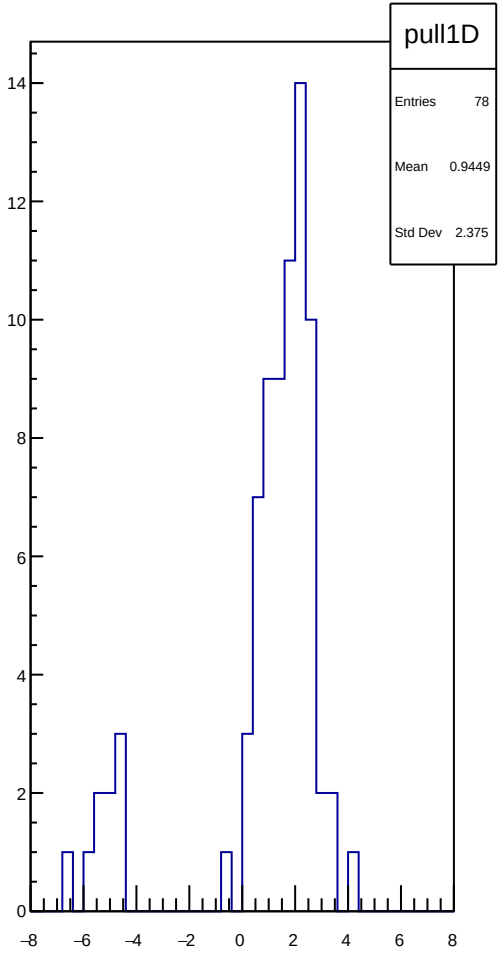

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 533.5 / 77
p0 −39.51 ± 1.021
pull
Entries 78
Mean 7.665
Std Dev 27.45
pull1D
Entries 78
Mean 0.8808
Std Dev 2.462

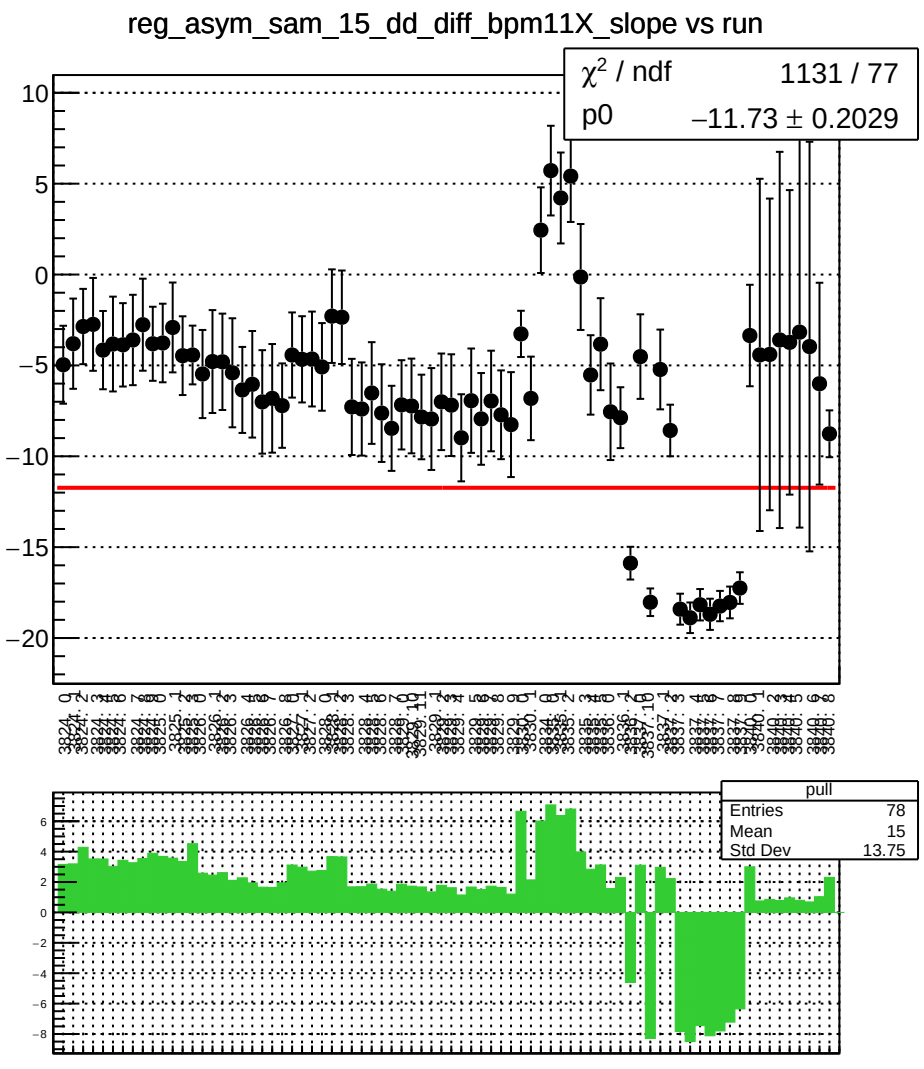

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 4123 / 77
p0 −116.7 ± 0.8129
pull
Entries 78
Mean 0.3241
Std Dev 36.07
pull1D
Entries 78
Mean −4.426
Std Dev 1.358

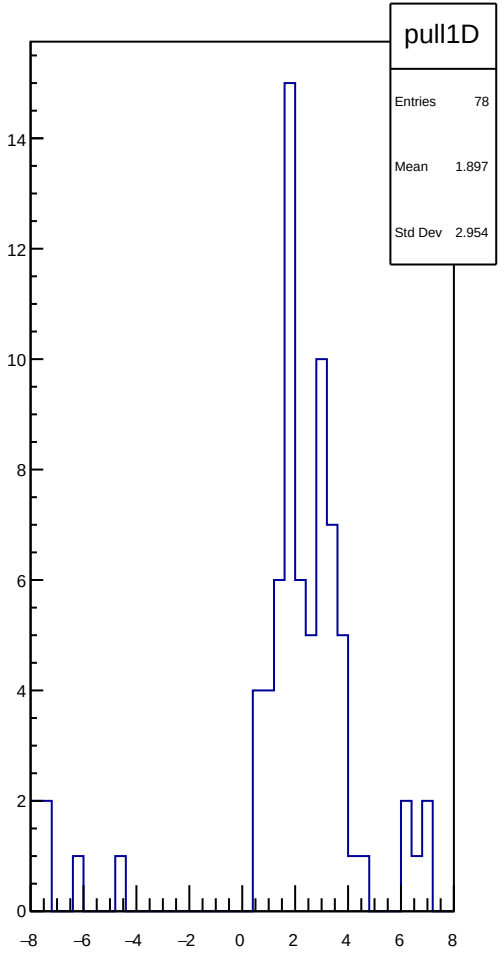

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 391.2 / 77
p0 4.164 ± 0.185
pull
Entries 78
Mean 4.369
Std Dev 29.68

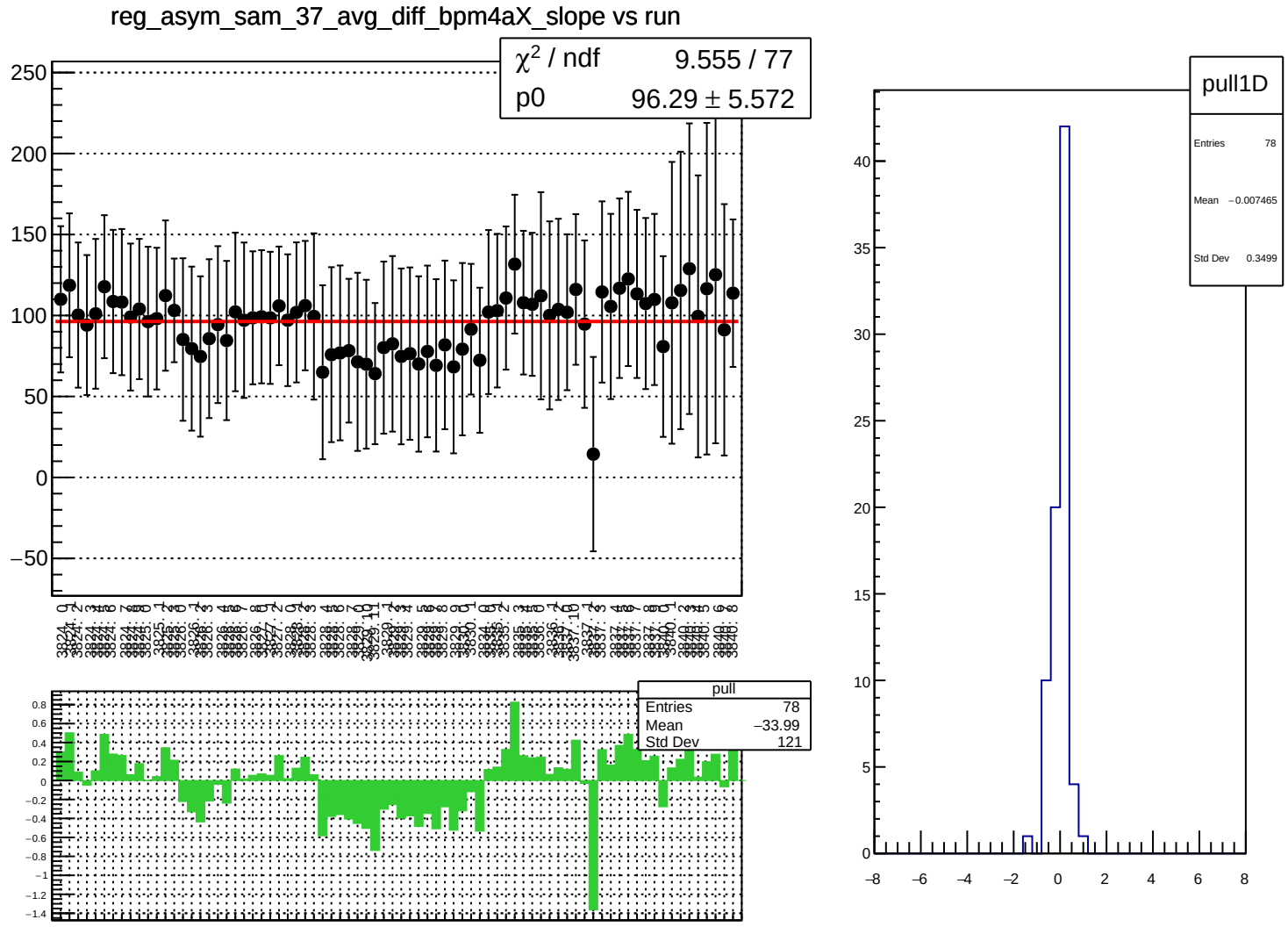

pull1D
Entries 78
Mean −0.4984
Std Dev 2.183

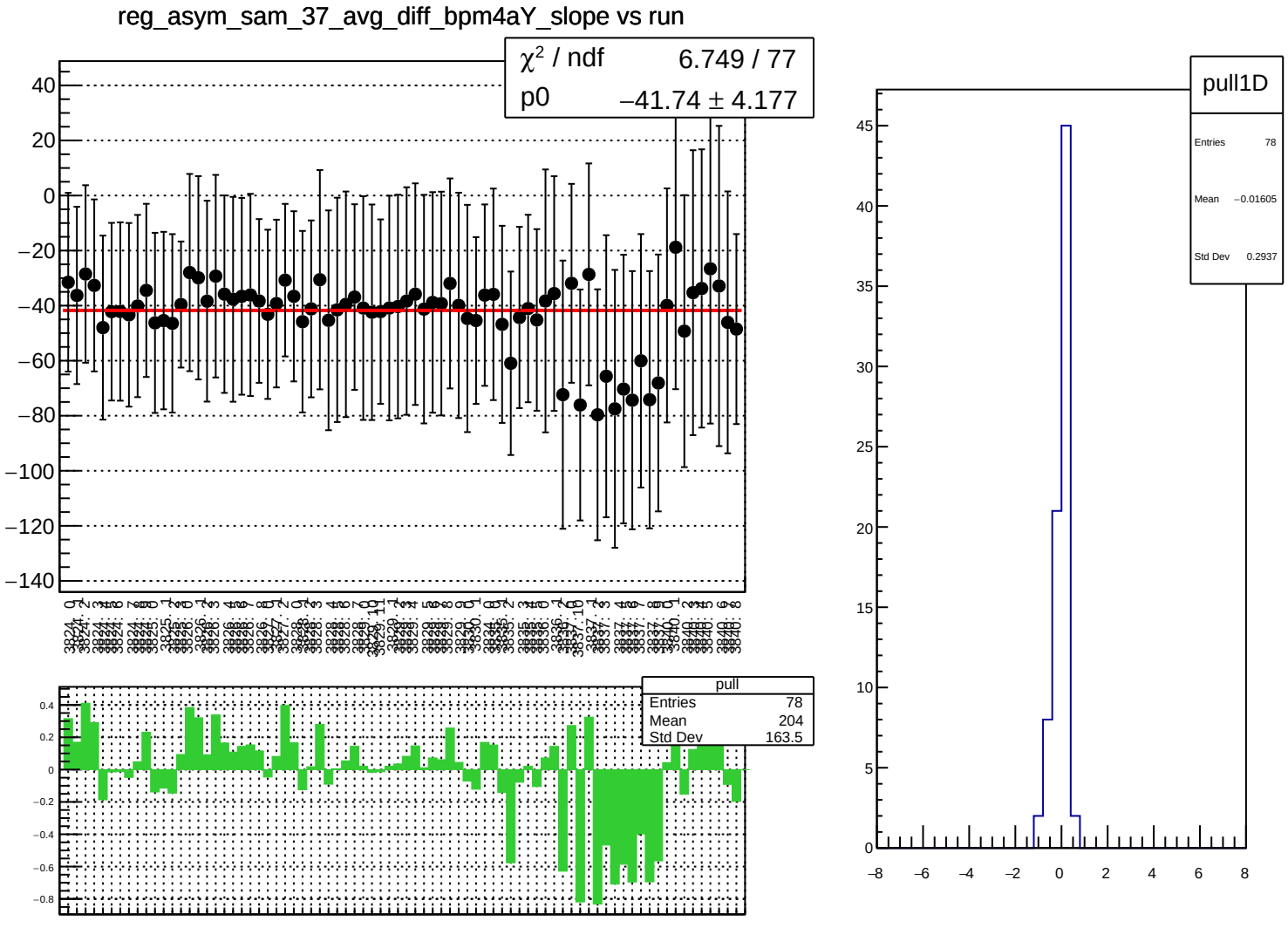

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 509.7 / 77
p0 −57.84 ± 1.161
pull
Entries 78
Mean 13.28
Std Dev 20.61

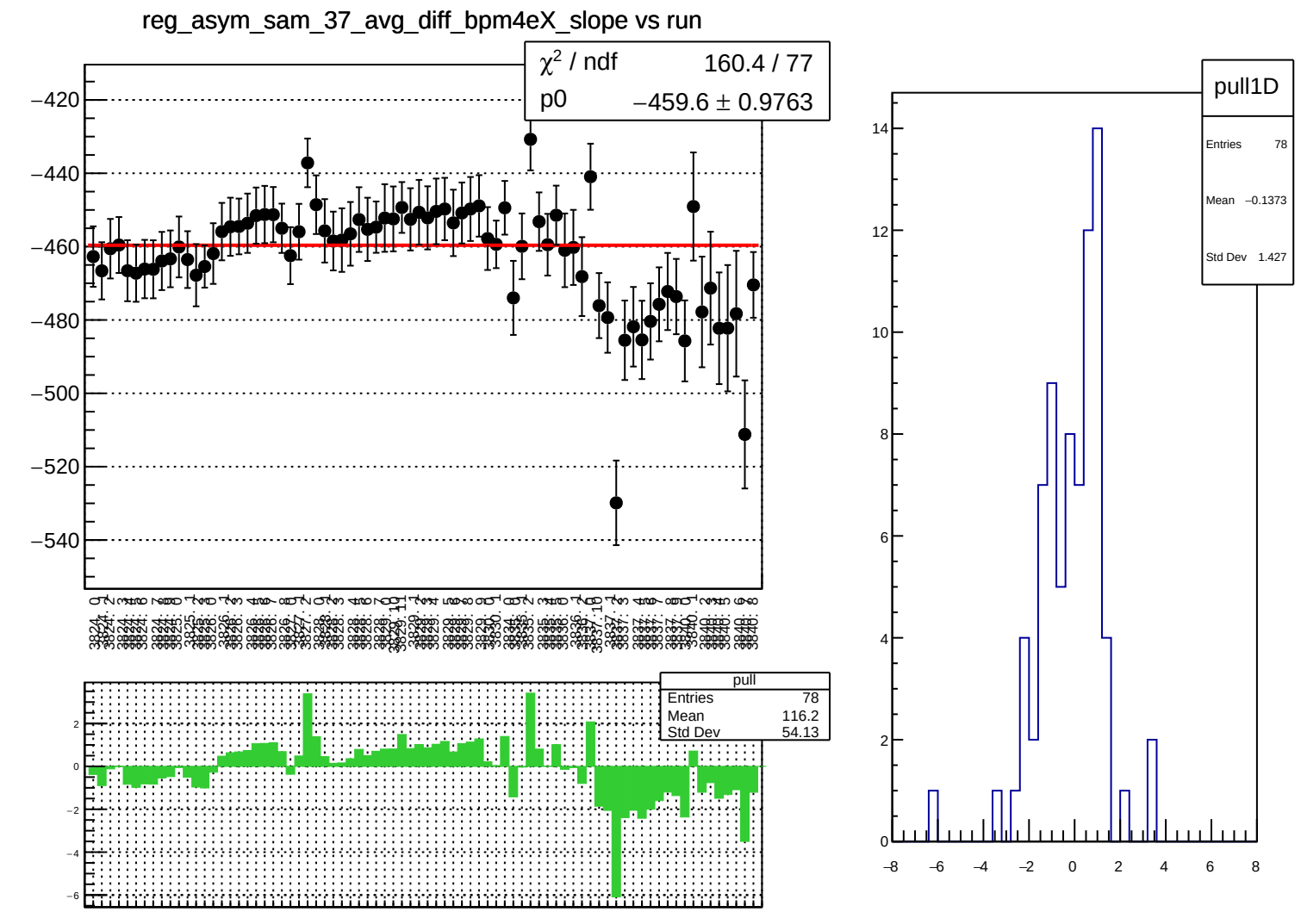

pull1D
Entries 78
Mean 0.9449
Std Dev 2.375

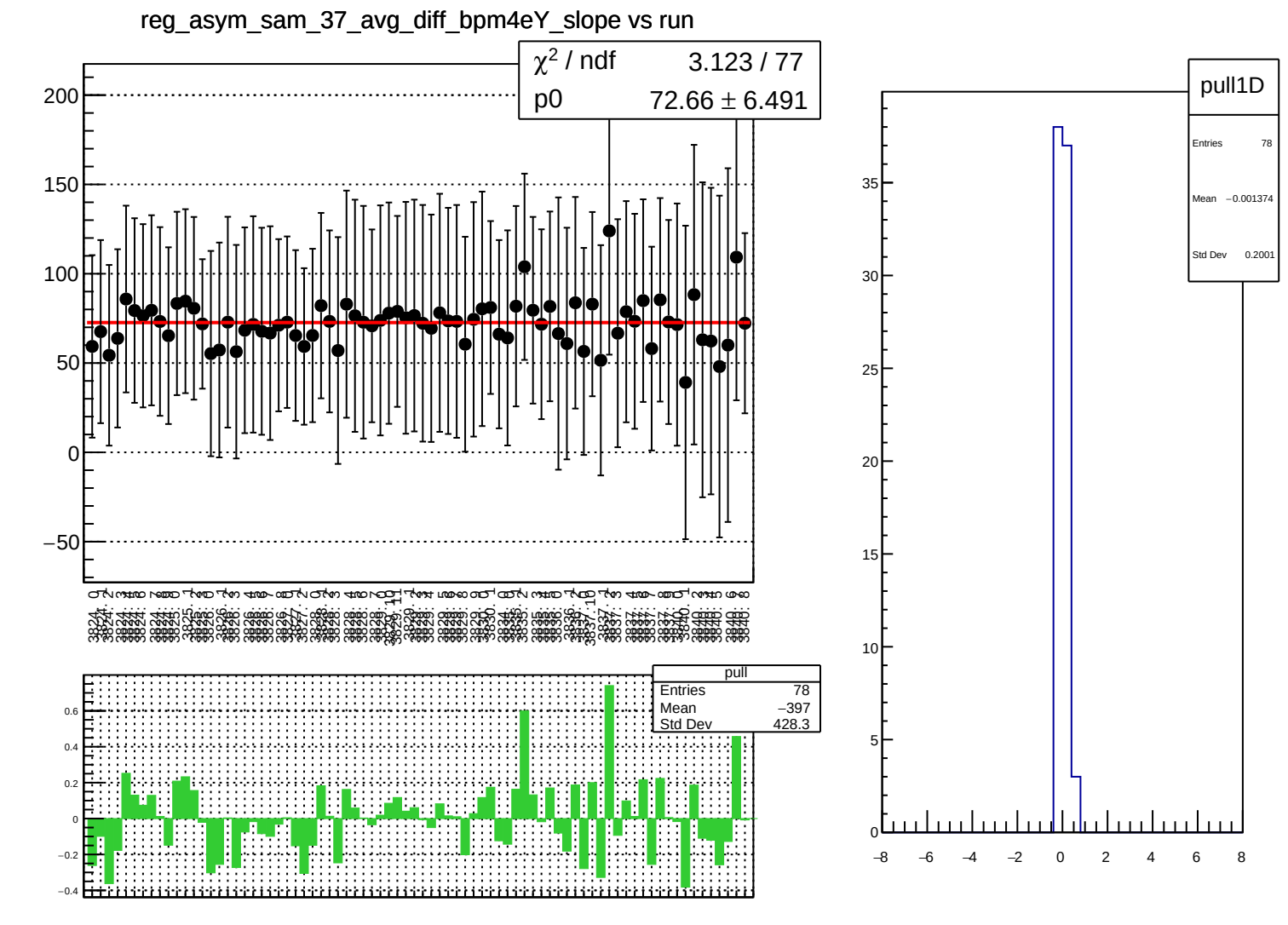

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 1131 / 77
p0 −11.73 ± 0.2029
pull
Entries 78
Mean 15
Std Dev 13.75

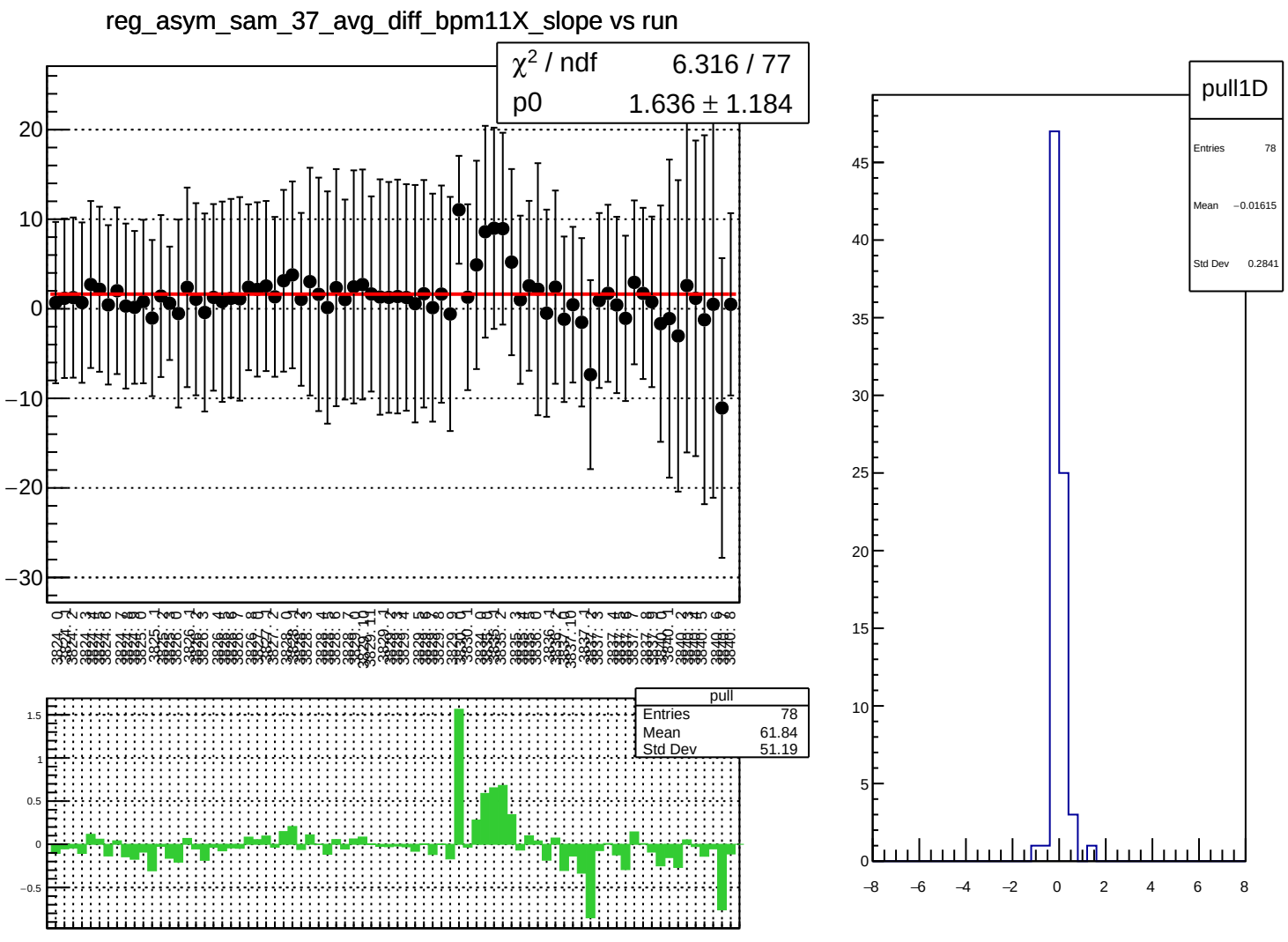

pull1D
Entries 78
Mean 1.897
Std Dev 2.954

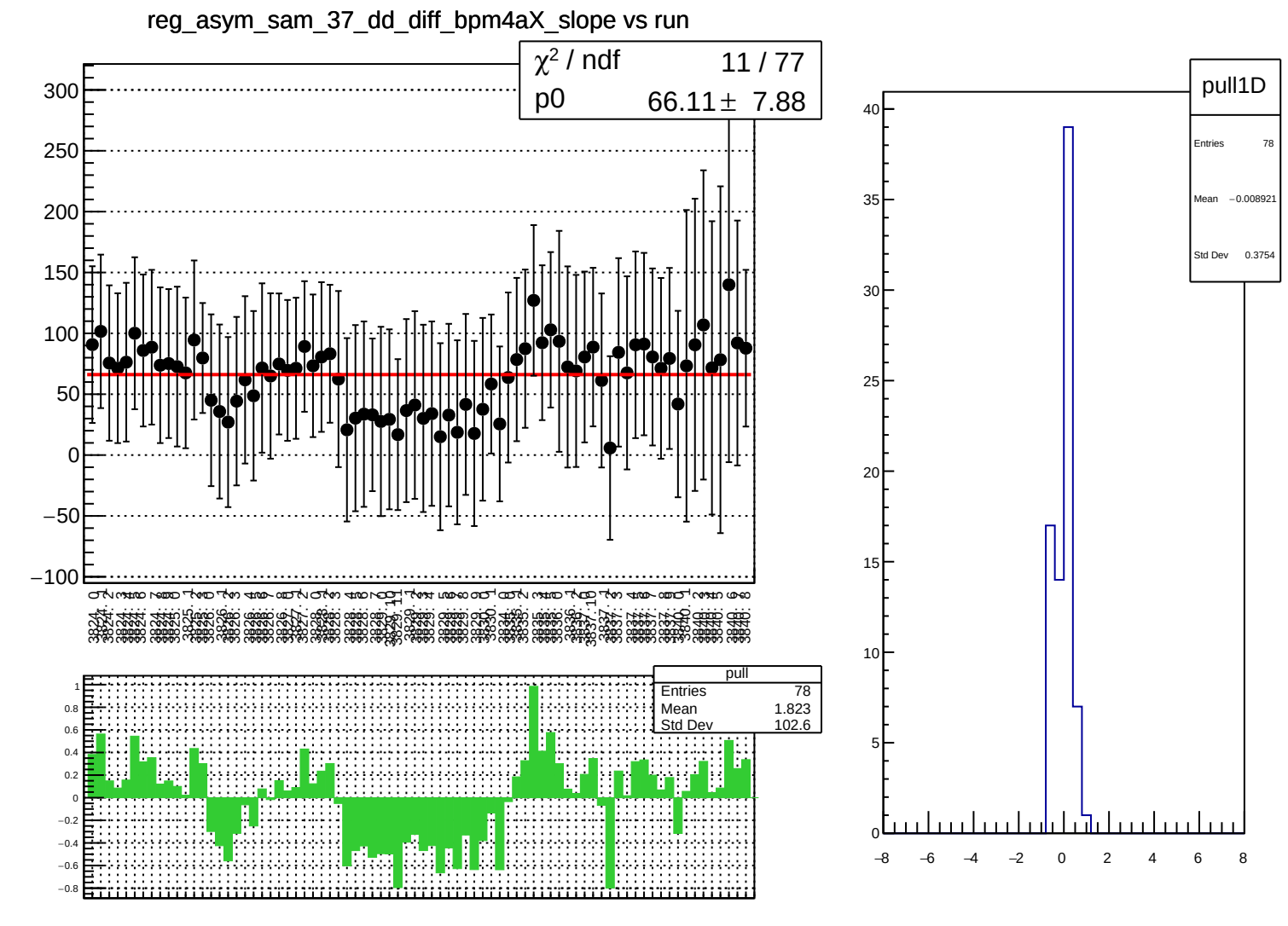

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 9.555 / 77
p0 96.29 ± 5.572
pull
Entries 78
Mean −33.99
Std Dev 121
pull1D
Entries 78
Mean −0.007465
Std Dev 0.3499

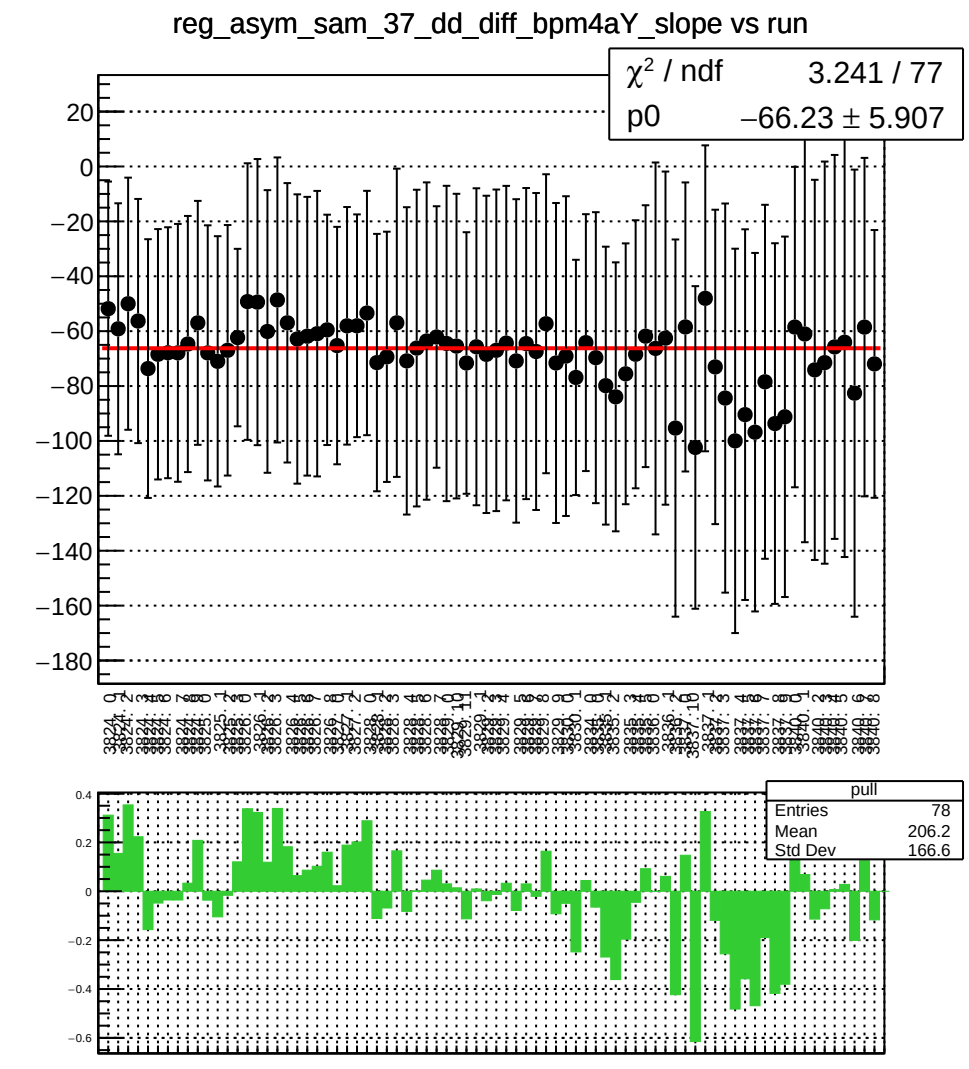

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.749 / 77
p0 −41.74 ± 4.177
pull
Entries 78
Mean 204
Std Dev 163.5
pull1D
Entries 78
Mean −0.01605
Std Dev 0.2937

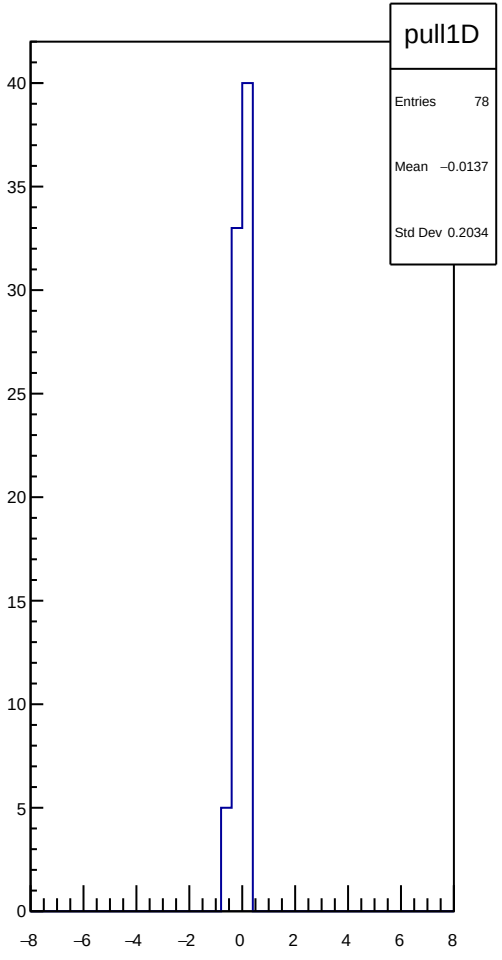

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 160.4 / 77
p0 −459.6 ± 0.9763
pull
Entries 78
Mean 116.2
Std Dev 54.13
pull1D
Entries 78
Mean −0.1373
Std Dev 1.427

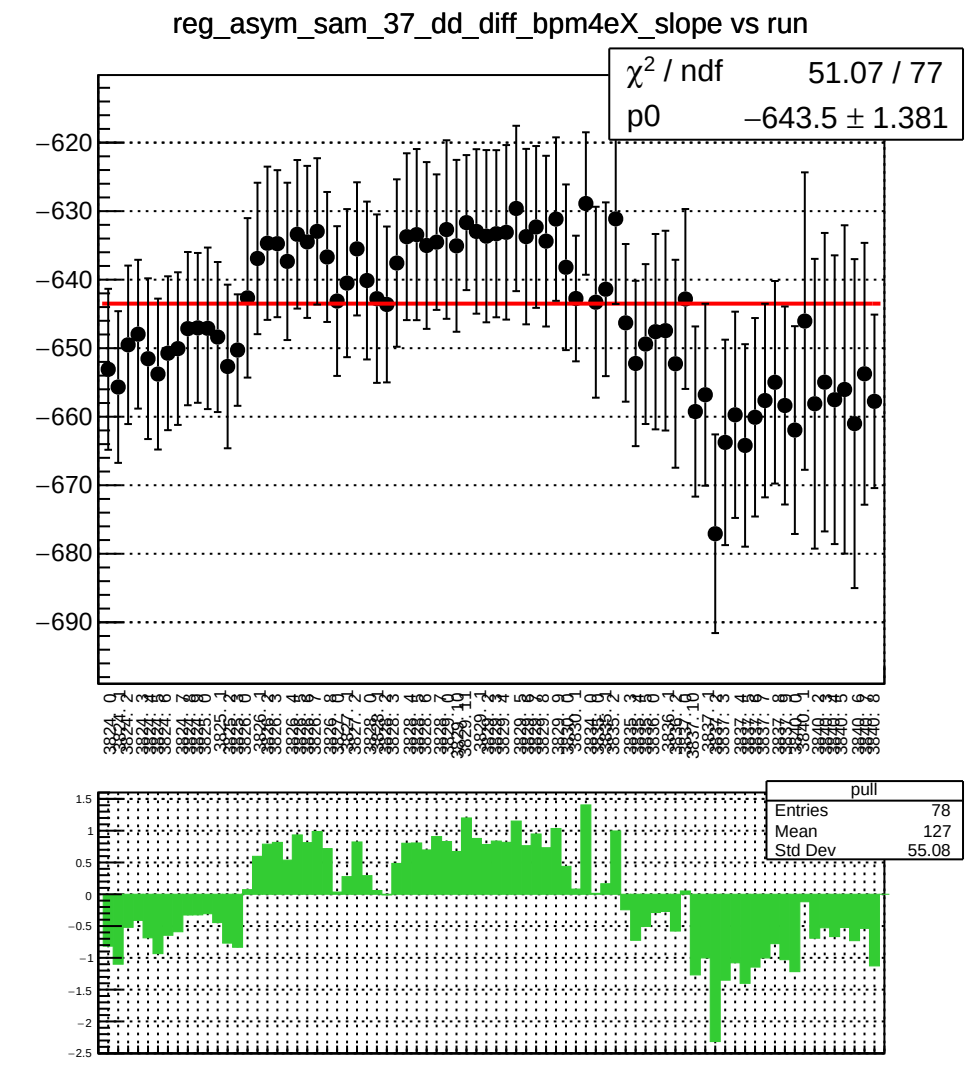

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.123 / 77
p0 72.66 ± 6.491
pull
Entries 78
Mean −397
Std Dev 428.3
pull1D
Entries 78
Mean −0.001374
Std Dev 0.2001

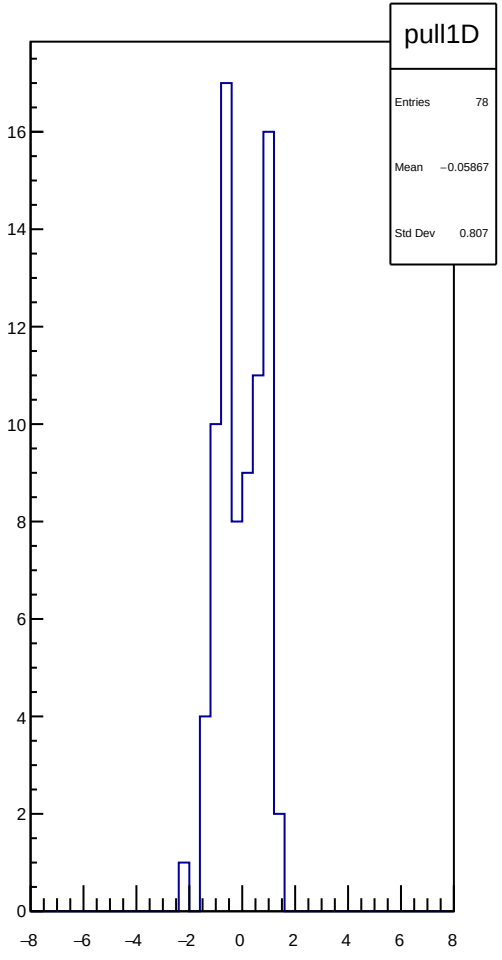

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 6.316 / 77
p0 1.636 ± 1.184
pull
Entries 78
Mean 61.84
Std Dev 51.19
pull1D
Entries 78
Mean −0.01615
Std Dev 0.2841

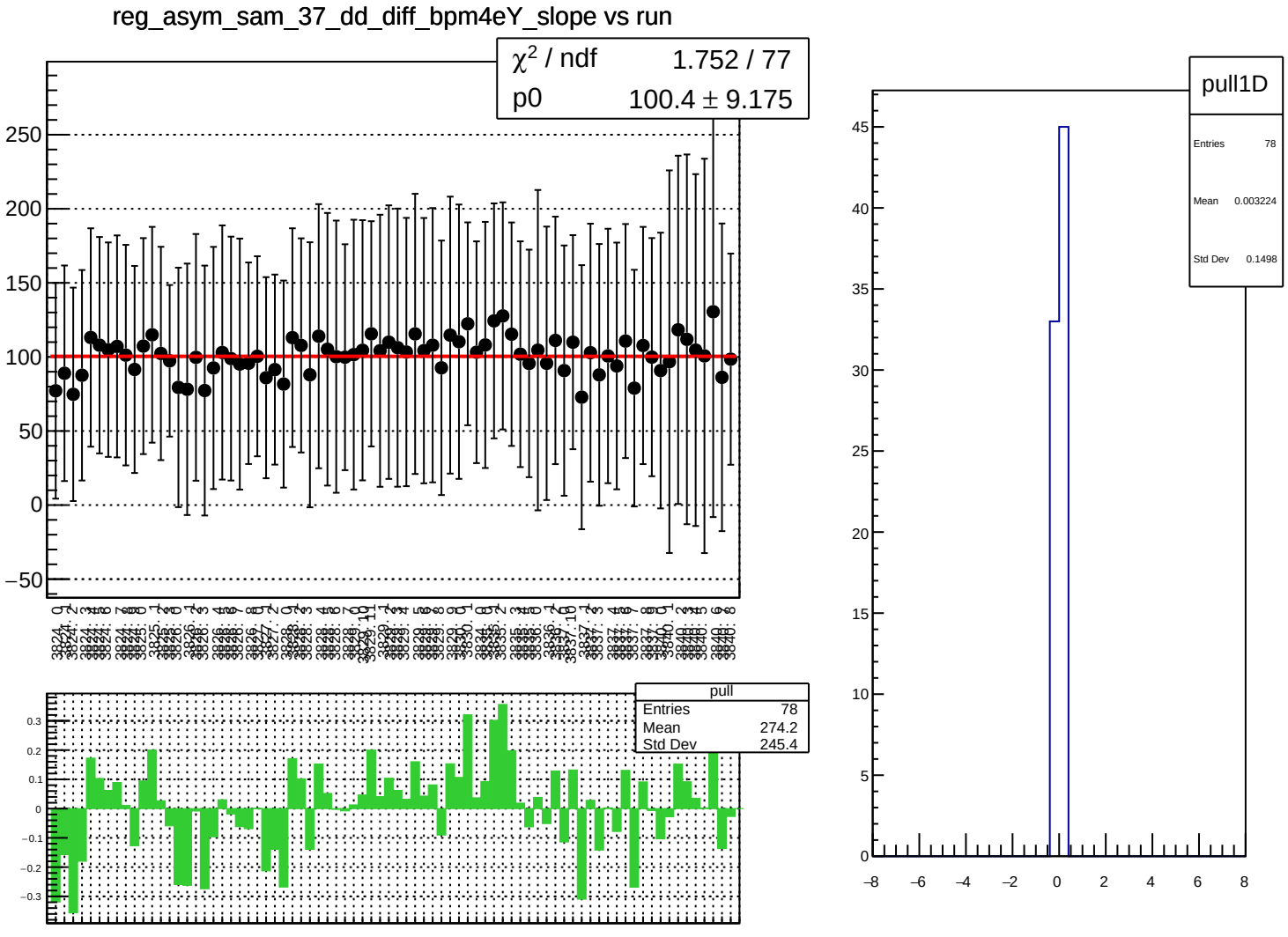

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 11 / 77
p0 66.11 ± 7.88
pull
Entries 78
Mean 1.823
Std Dev 102.6
pull1D
Entries 78
Mean −0.008921
Std Dev 0.3754

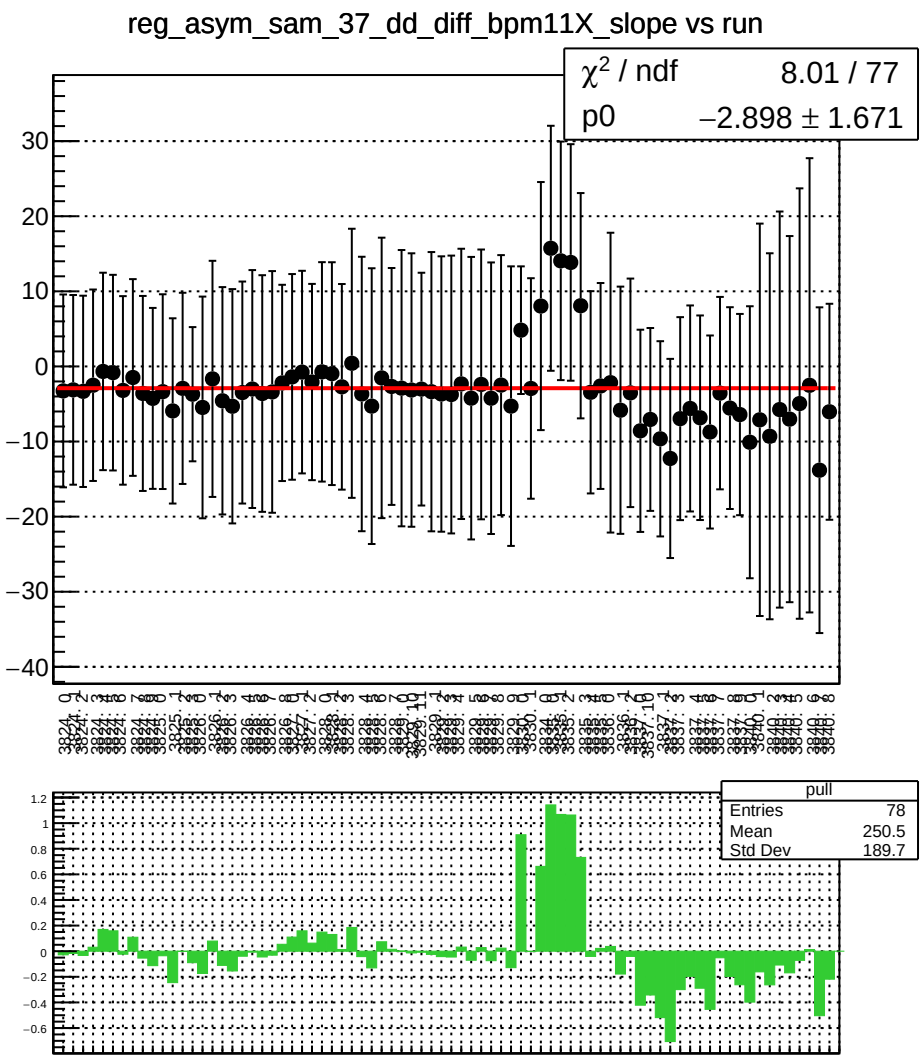

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.241 / 77
p0 −66.23 ± 5.907
pull
Entries 78
Mean 206.2
Std Dev 166.6

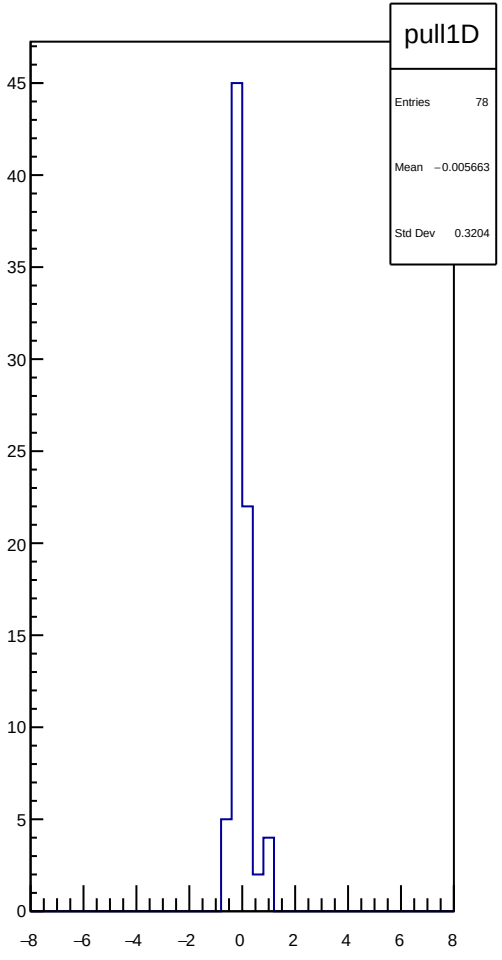

pull1D
Entries 78
Mean −0.0137
Std Dev 0.2034

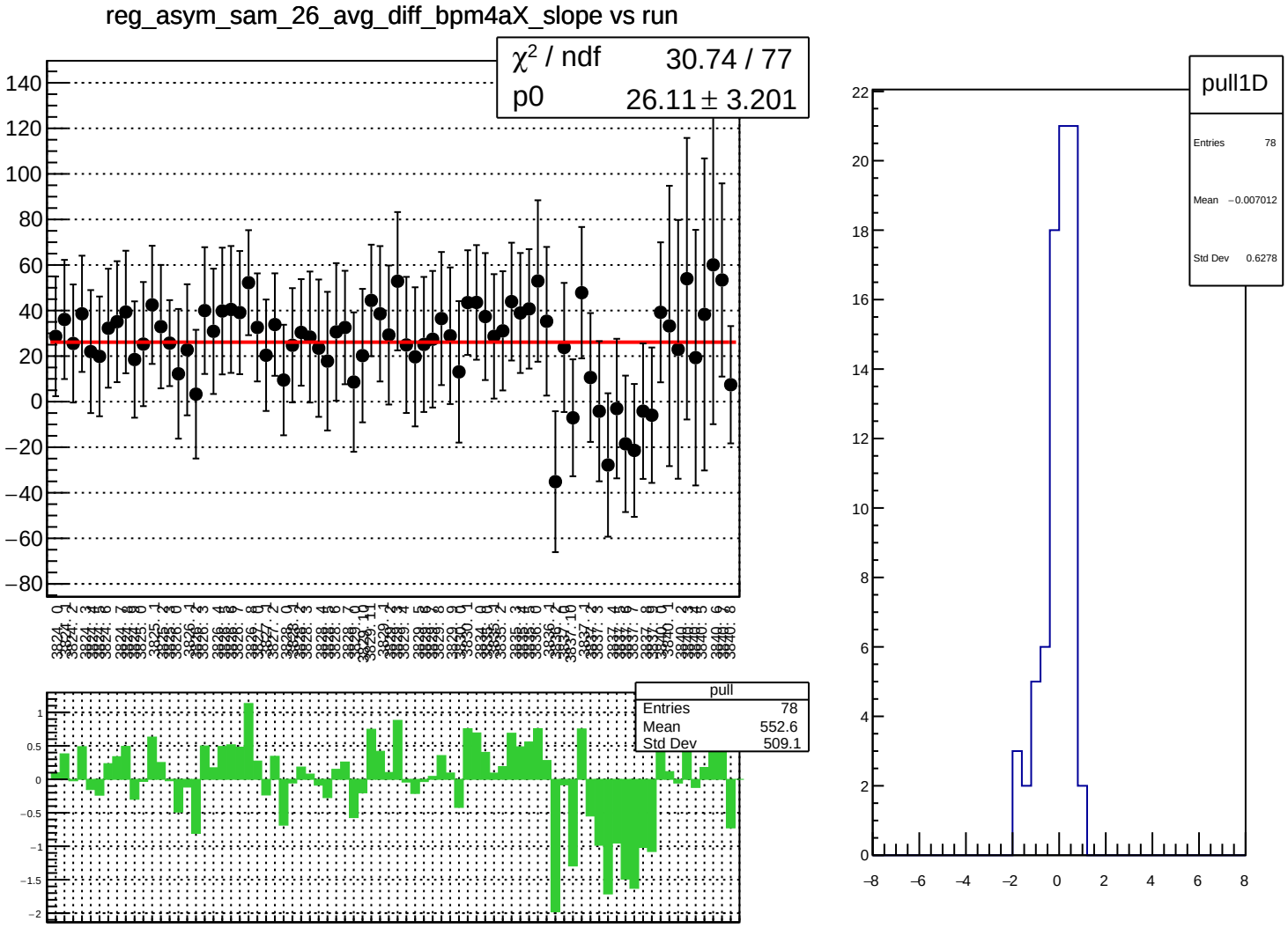

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.07 / 77
p0 −643.5 ± 1.381
pull
Entries 78
Mean 127
Std Dev 55.08

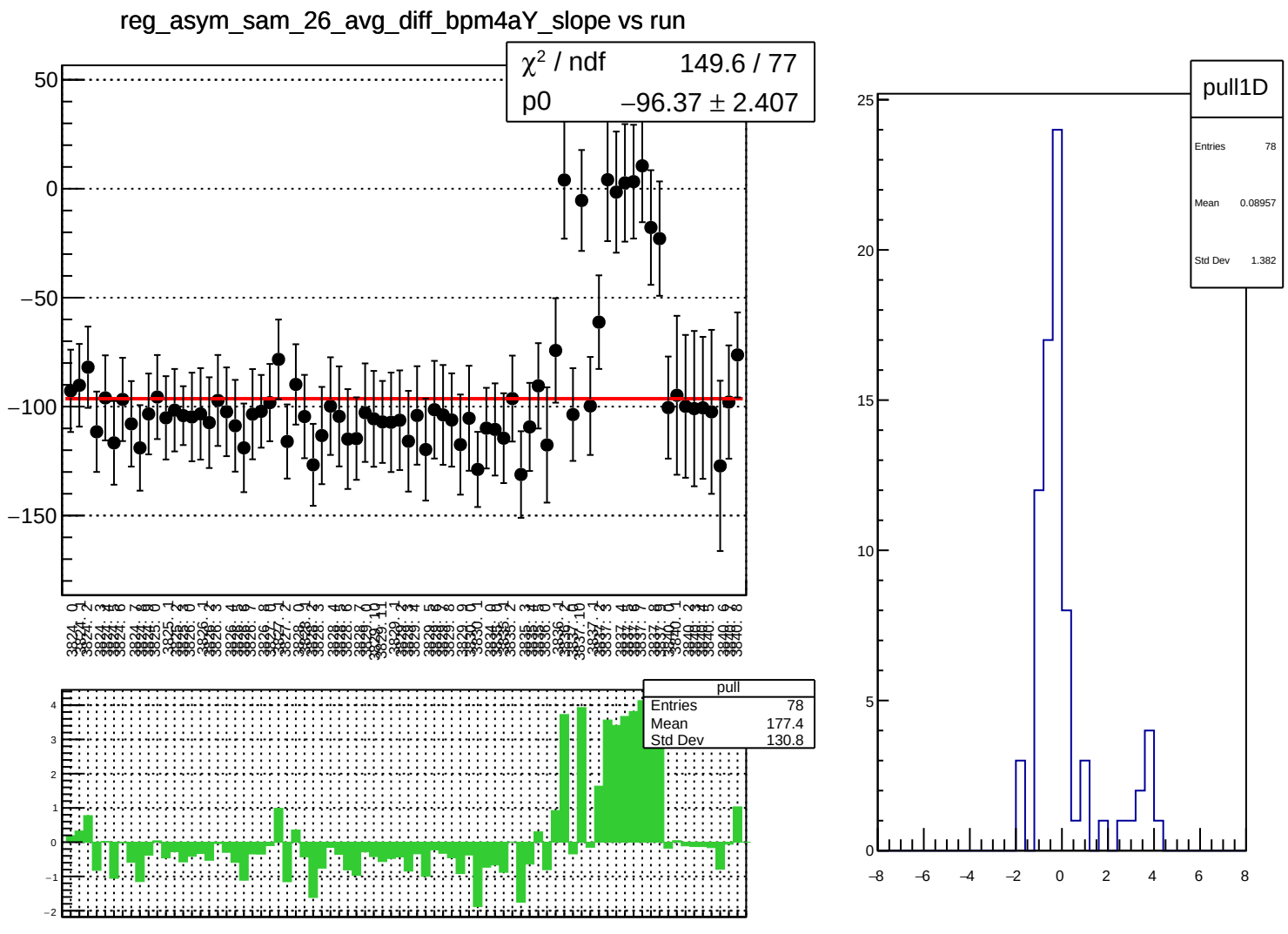

pull1D
Entries 78
Mean −0.05867
Std Dev 0.807

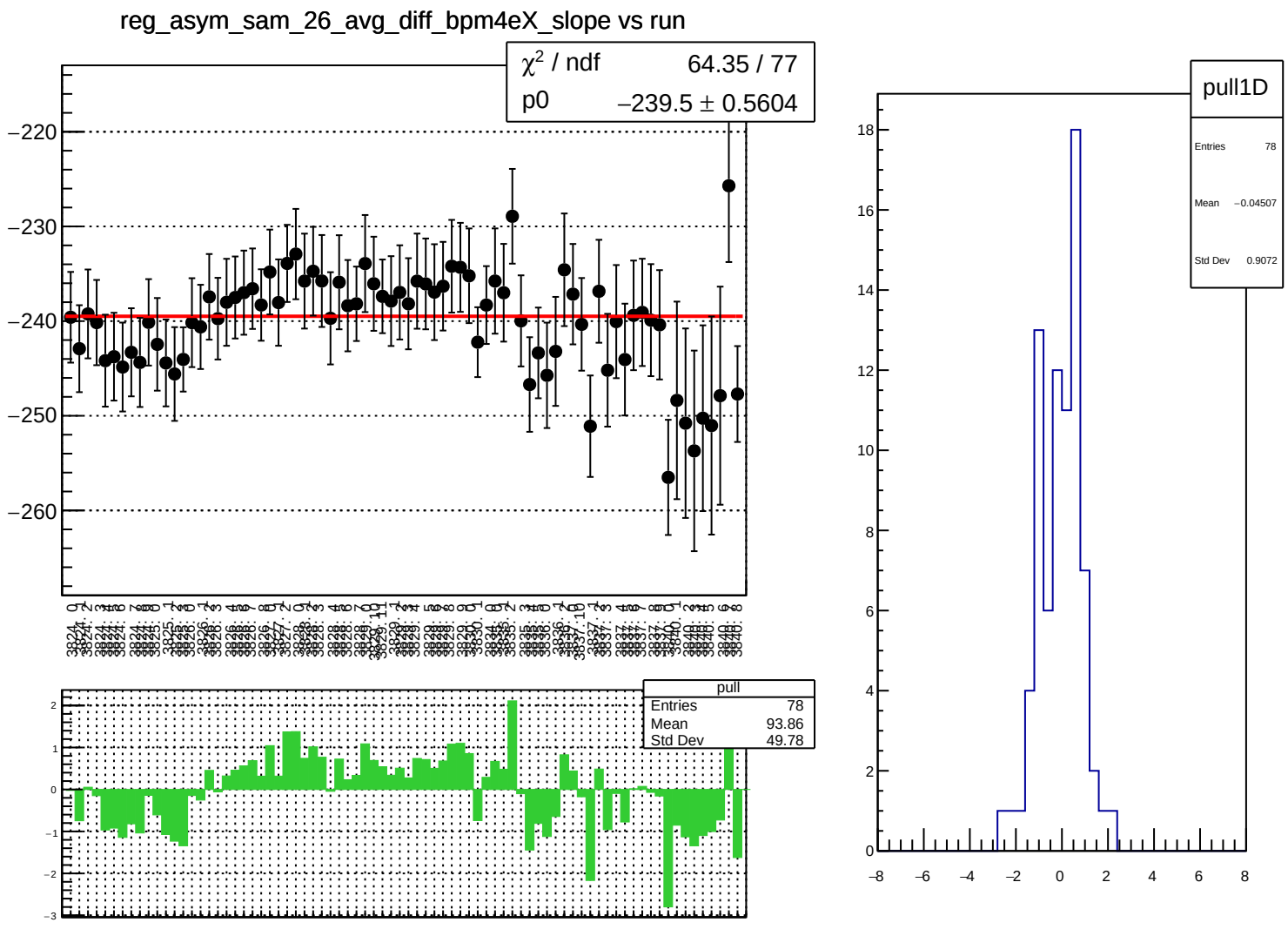

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.752 / 77
p0 100.4 ± 9.175
pull
Entries 78
Mean 274.2
Std Dev 245.4
pull1D
Entries 78
Mean 0.003224
Std Dev 0.1498

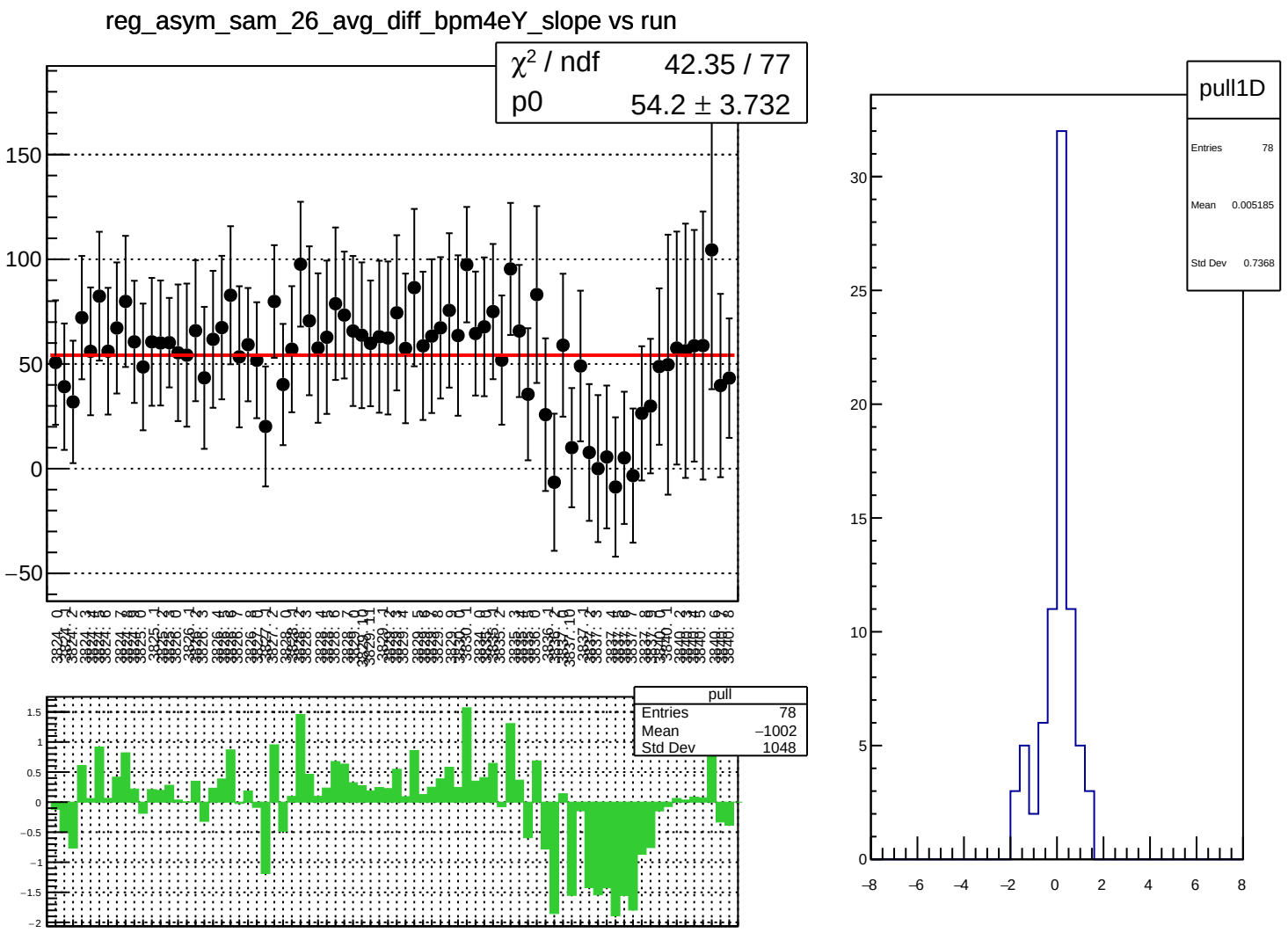

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 8.01 / 77
p0 −2.898 ± 1.671
pull
Entries 78
Mean 250.5
Std Dev 189.7

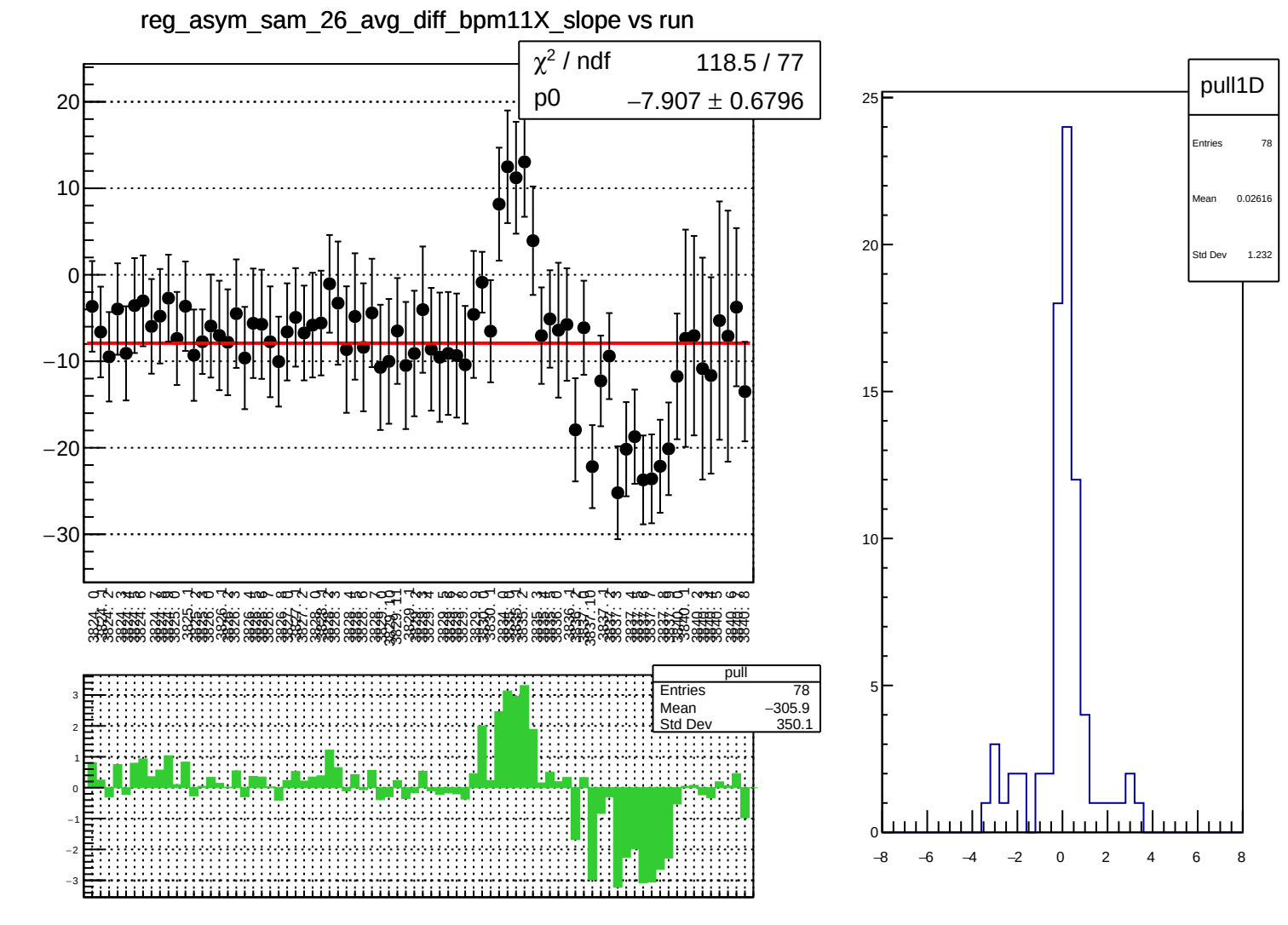

pull1D
Entries 78
Mean −0.005663
Std Dev 0.3204

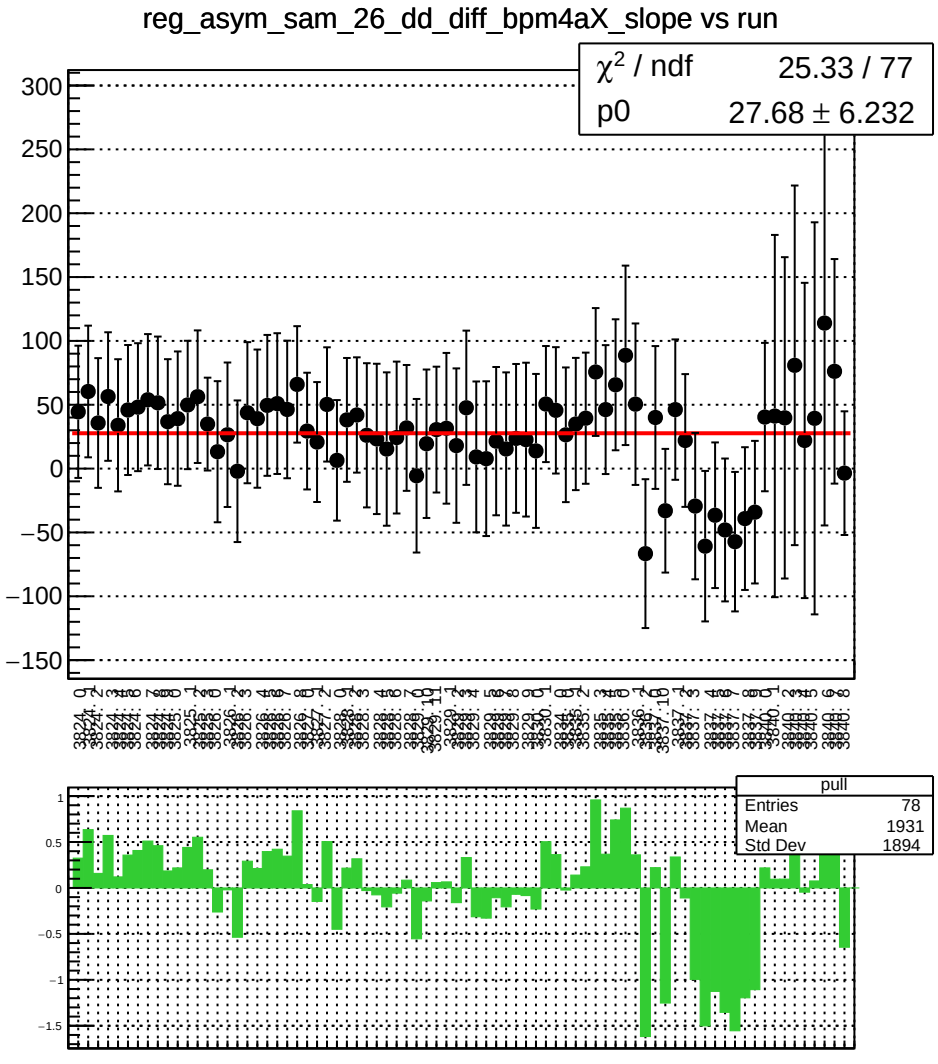

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 30.74 / 77
p0 26.11 ± 3.201
pull
Entries 78
Mean 552.6
Std Dev 509.1
pull1D
Entries 78
Mean −0.007012
Std Dev 0.6278

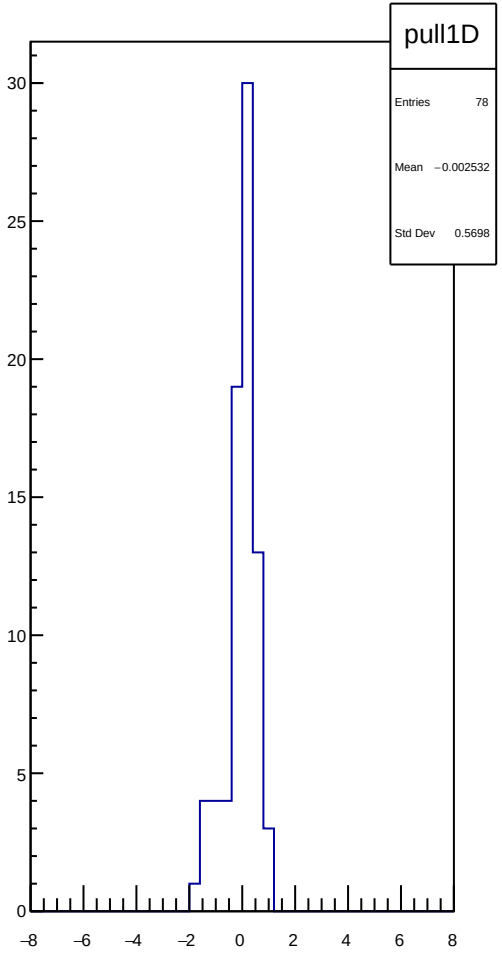

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 149.6 / 77
p0 −96.37 ± 2.407
50
0
−50
−100
−150
pull
Entries 78
Mean 177.4
Std Dev 130.8
4
3
2
1
0
−1
−2
pull1D
Entries 78
Mean 0.08957
Std Dev 1.382
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

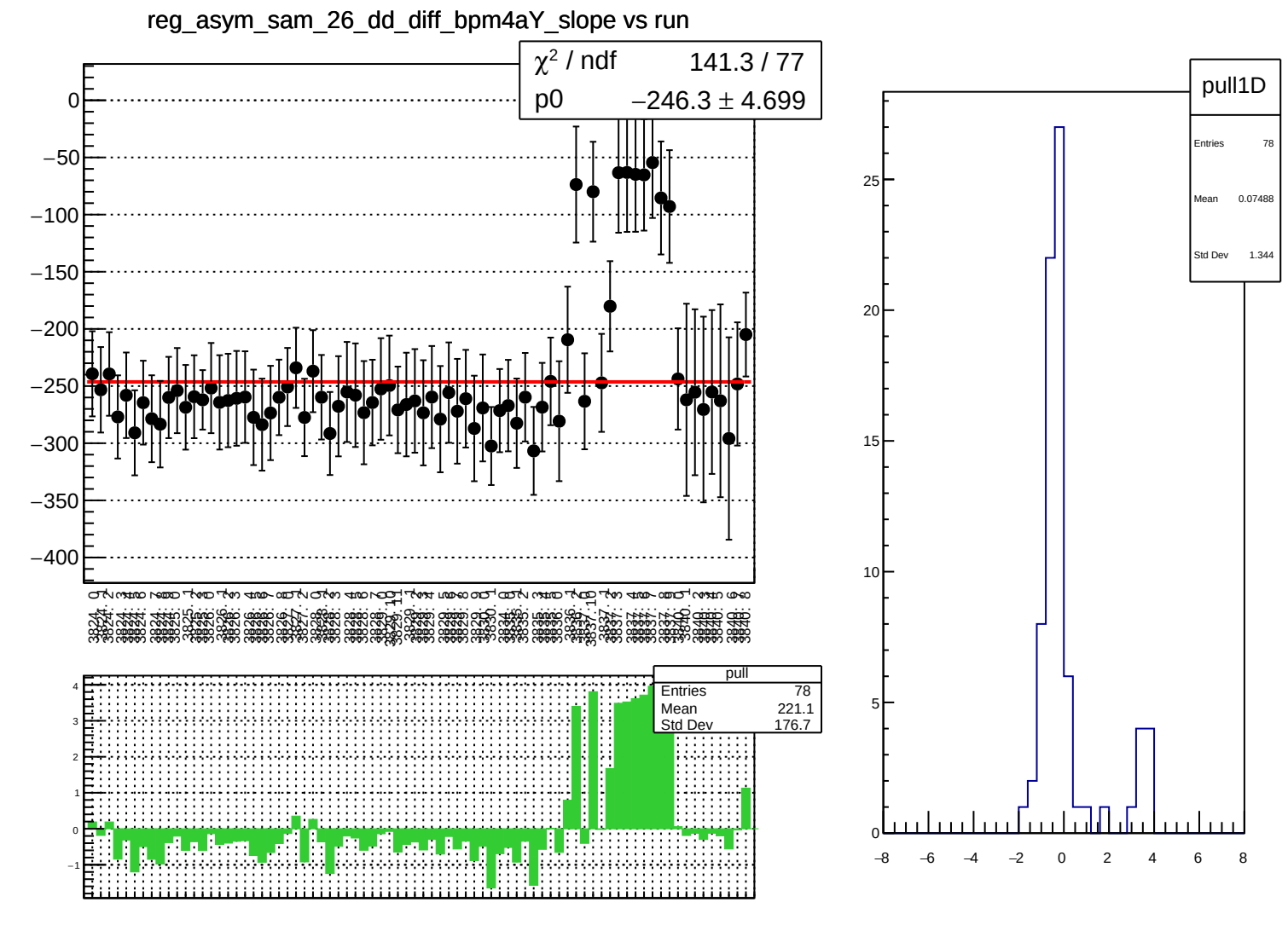

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.35 / 77
p0 −239.5 ± 0.5604
−220
−230
−240
−250
−260
pull
Entries 78
Mean 93.86
Std Dev 49.78
pull1D
Entries 78
Mean −0.04507
Std Dev 0.9072

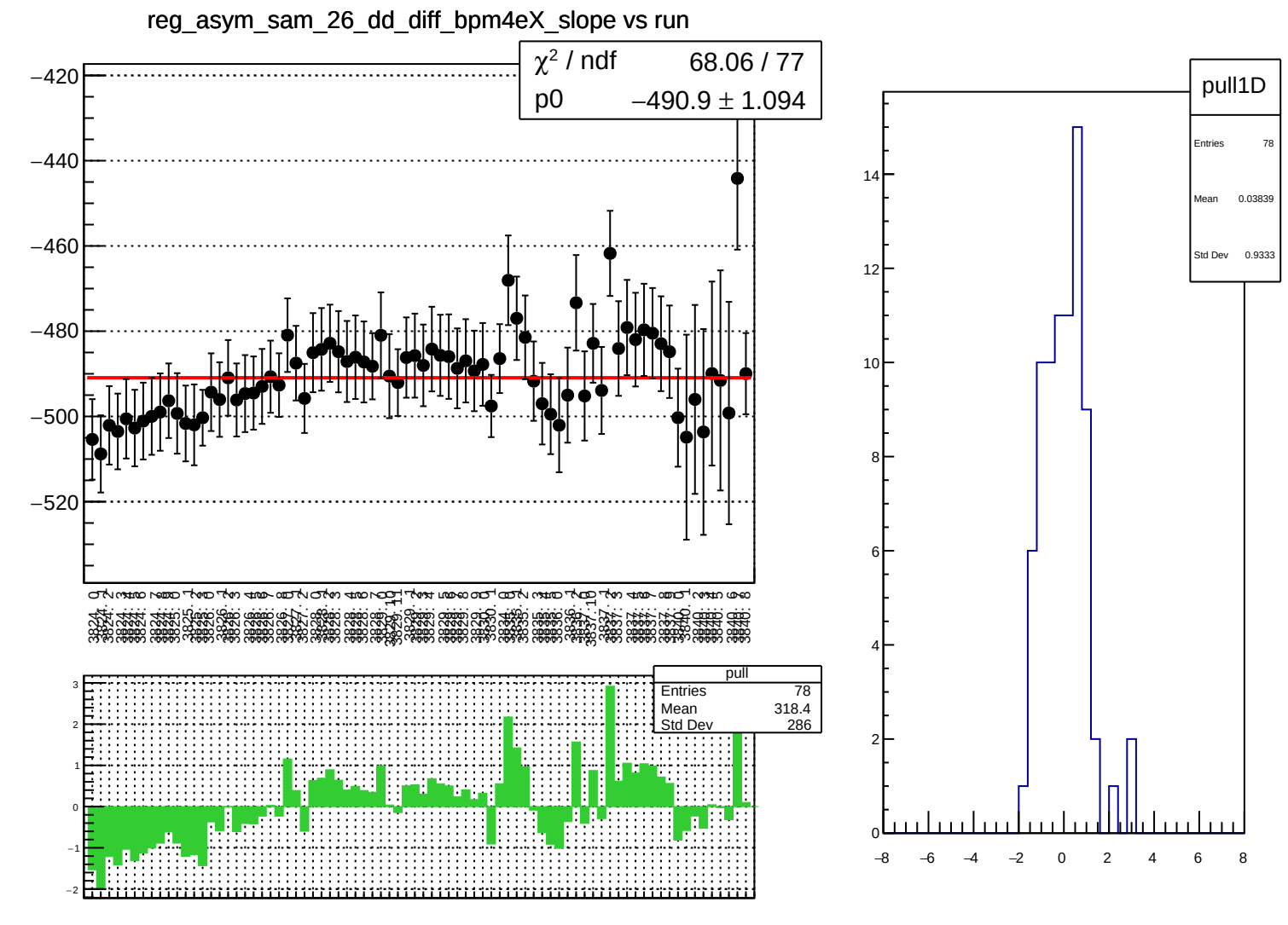

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.35 / 77
p0 54.2 ± 3.732
150
100
50
0
−50
pull
Entries 78
Mean −1002
Std Dev 1048
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 78
Mean 0.005185
Std Dev 0.7368
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

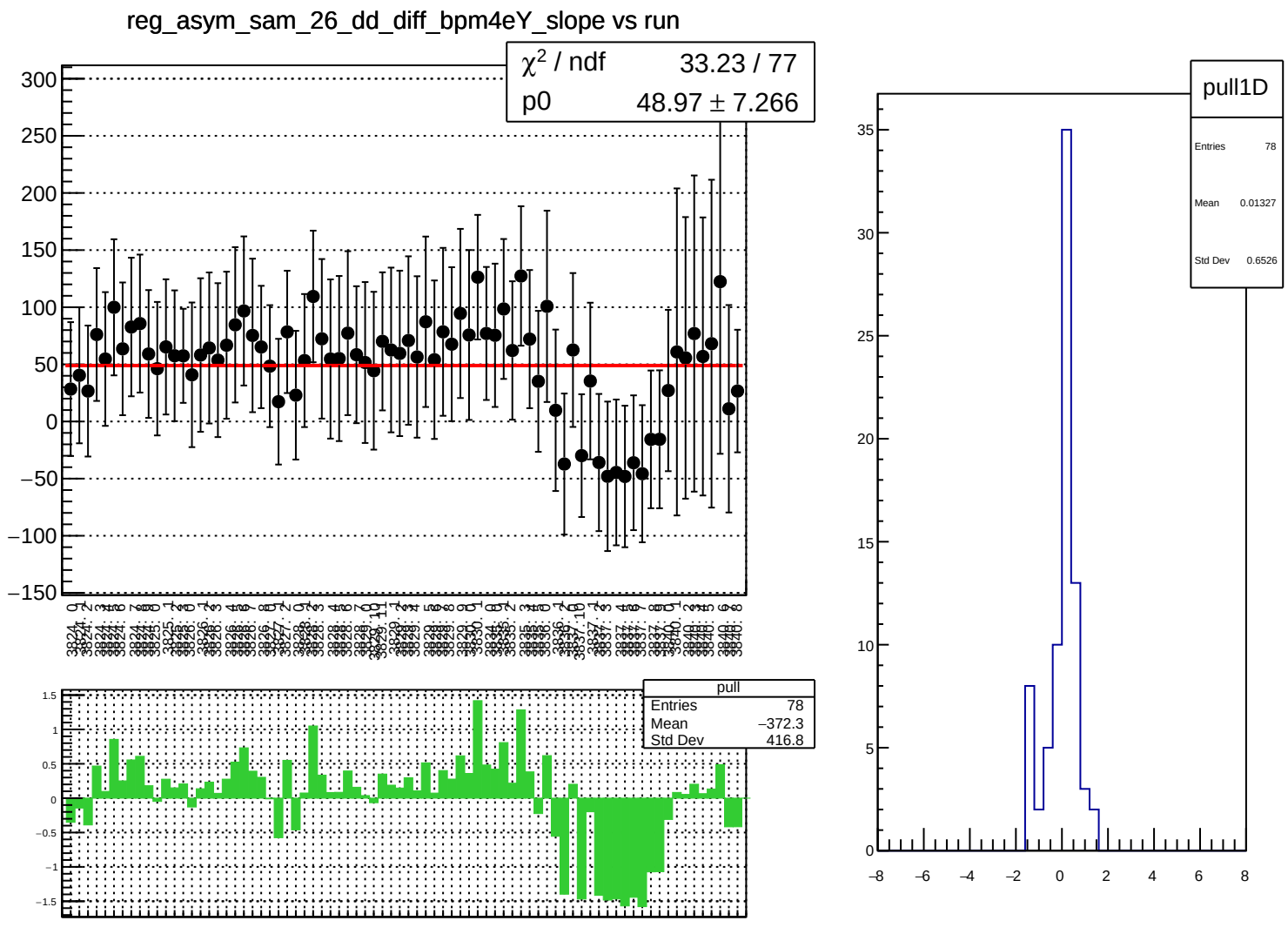

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 118.5 / 77
p0 −7.907 ± 0.6796
pull
Entries 78
Mean −305.9
Std Dev 350.1
pull1D
Entries 78
Mean 0.02616
Std Dev 1.232

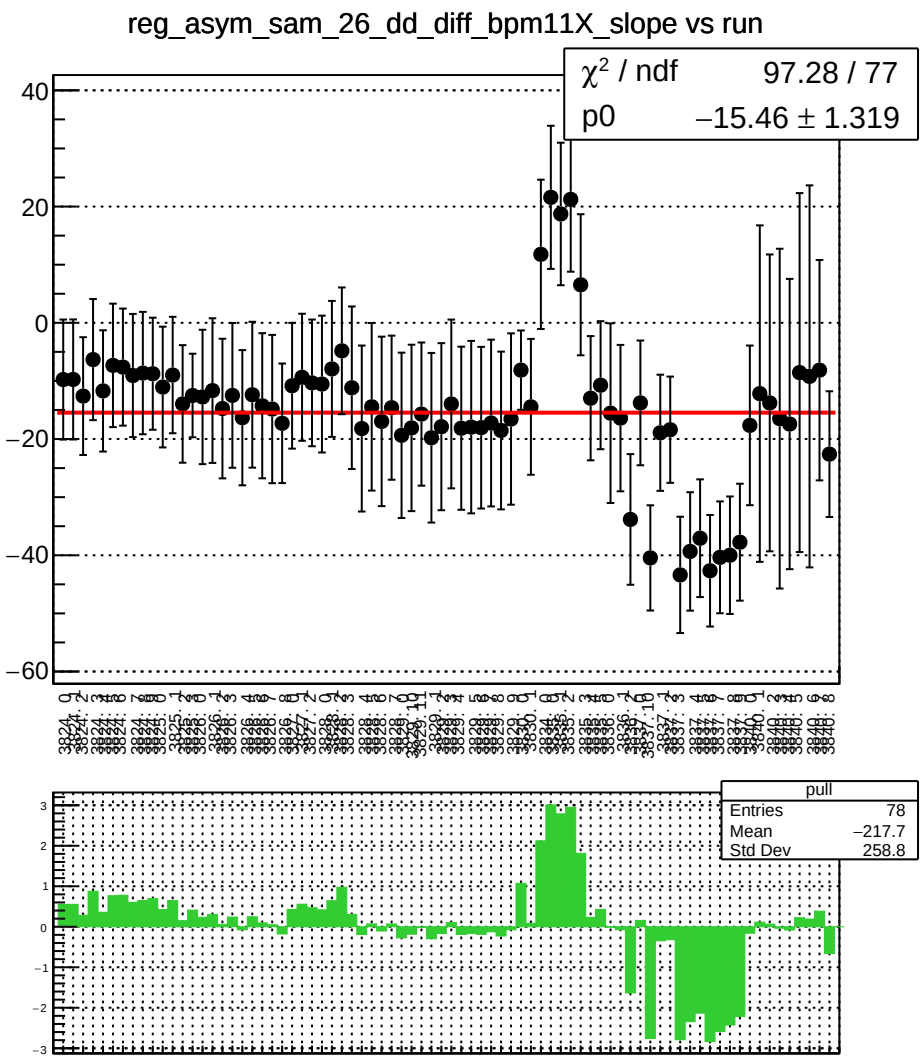

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 25.33 / 77
p0 27.68 ± 6.232
pull
Entries 78
Mean 1931
Std Dev 1894

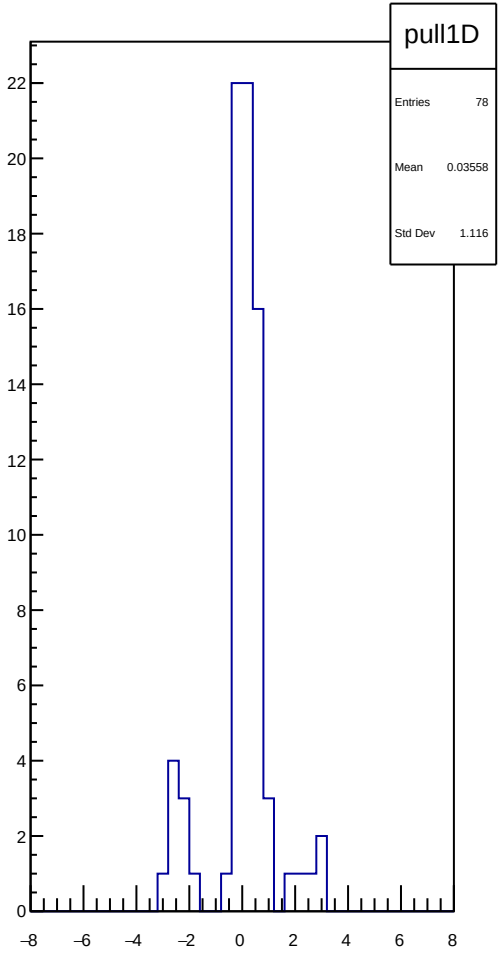

pull1D
Entries 78
Mean −0.002532
Std Dev 0.5698

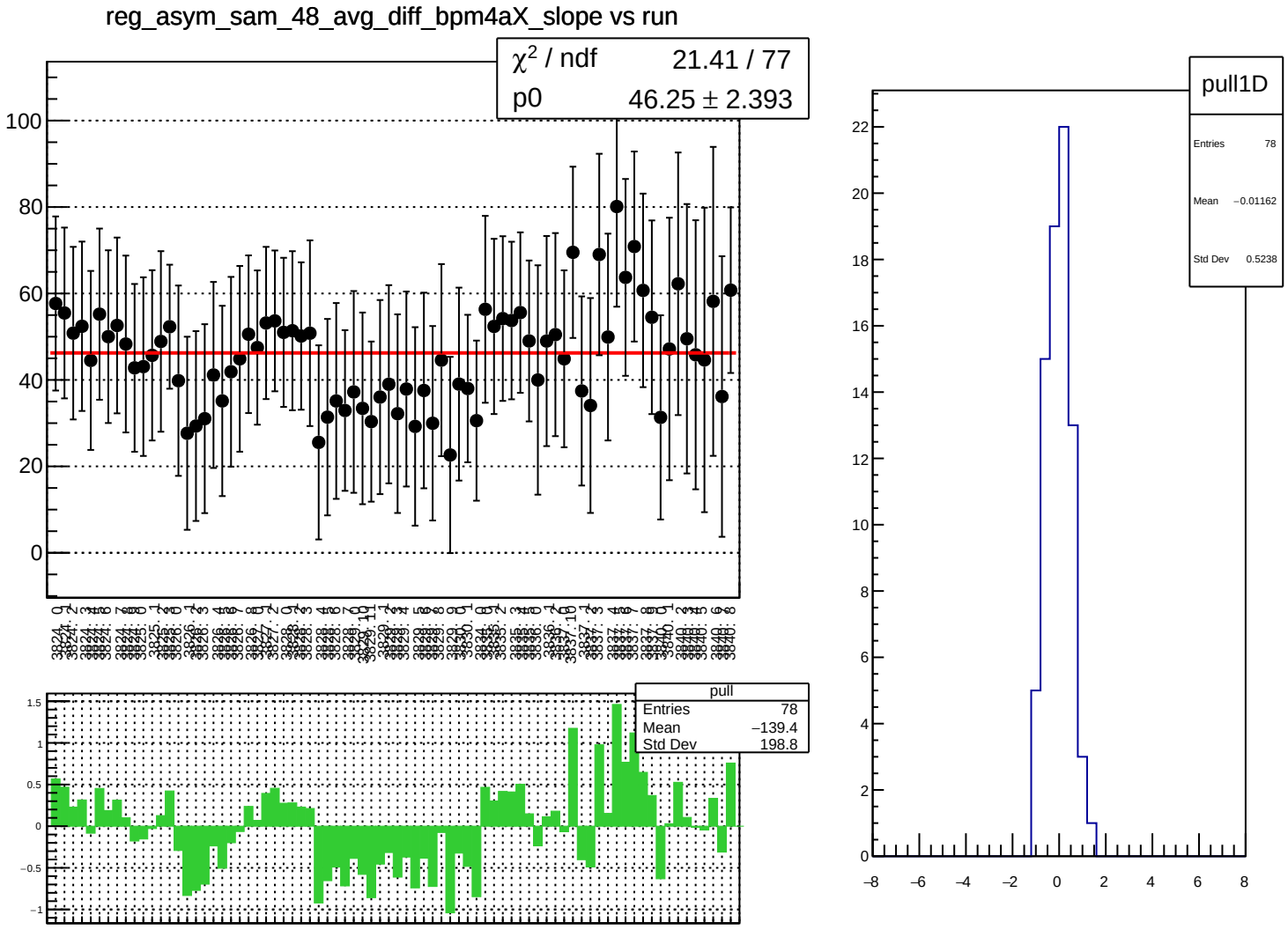

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 141.3 / 77
p0 −246.3 ± 4.699
pull
Entries 78
Mean 221.1
Std Dev 176.7
pull1D
Entries 78
Mean 0.07488
Std Dev 1.344

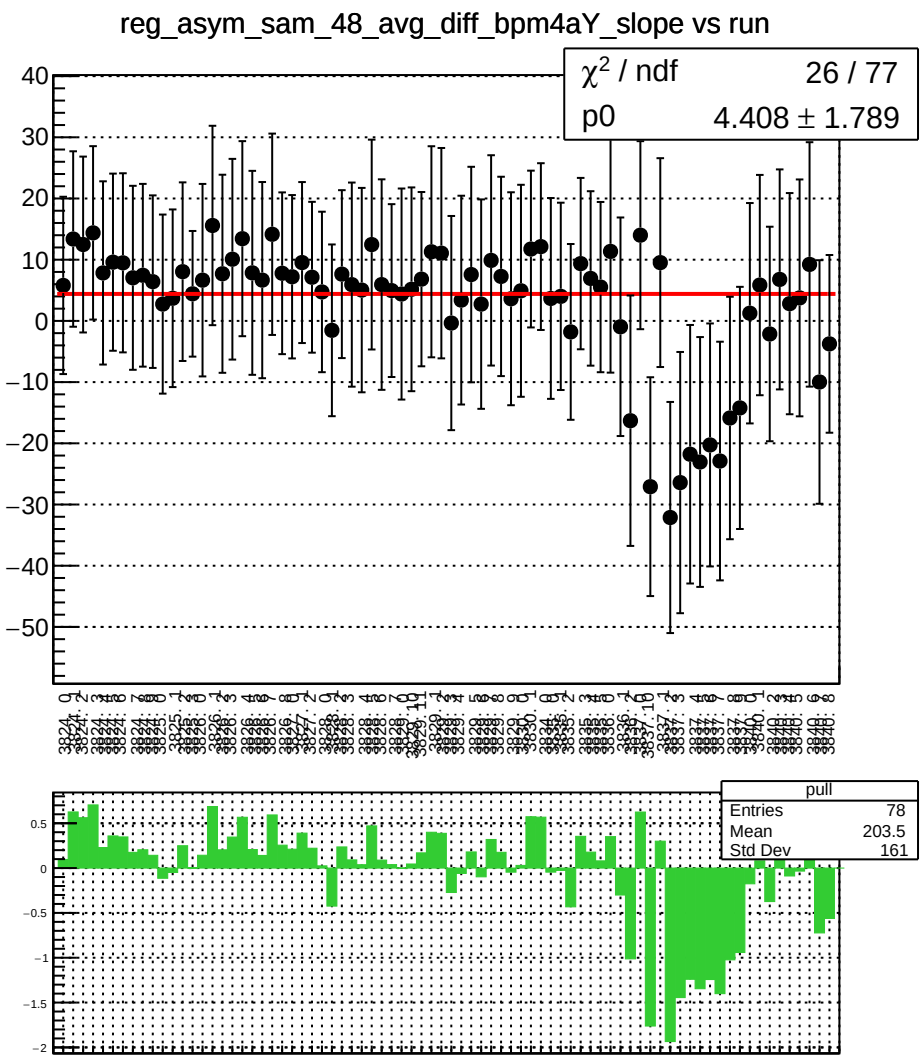

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.06 / 77
p0 −490.9 ± 1.094
pull
Entries 78
Mean 318.4
Std Dev 286
pull1D
Entries 78
Mean 0.03839
Std Dev 0.9333

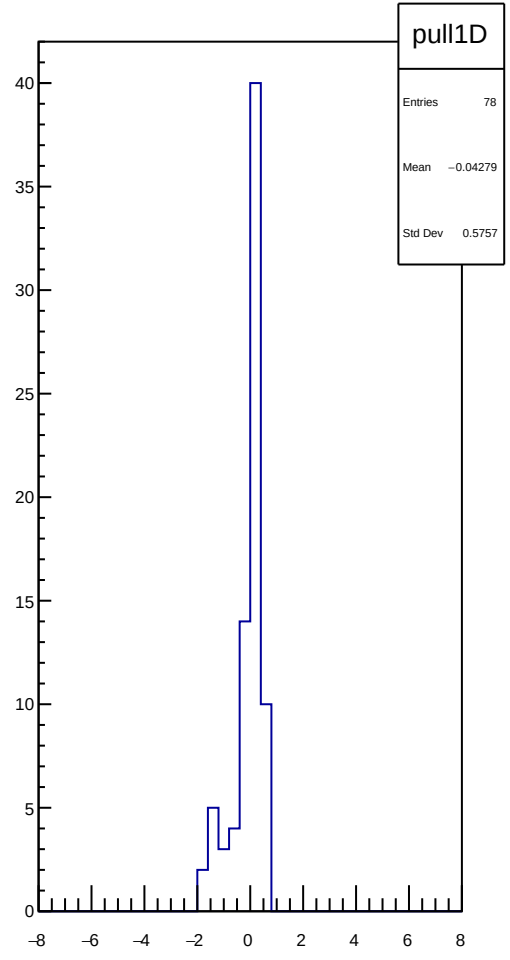

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.23 / 77
p0 48.97 ± 7.266
pull
Entries 78
Mean −372.3
Std Dev 416.8
pull1D
Entries 78
Mean 0.01327
Std Dev 0.6526

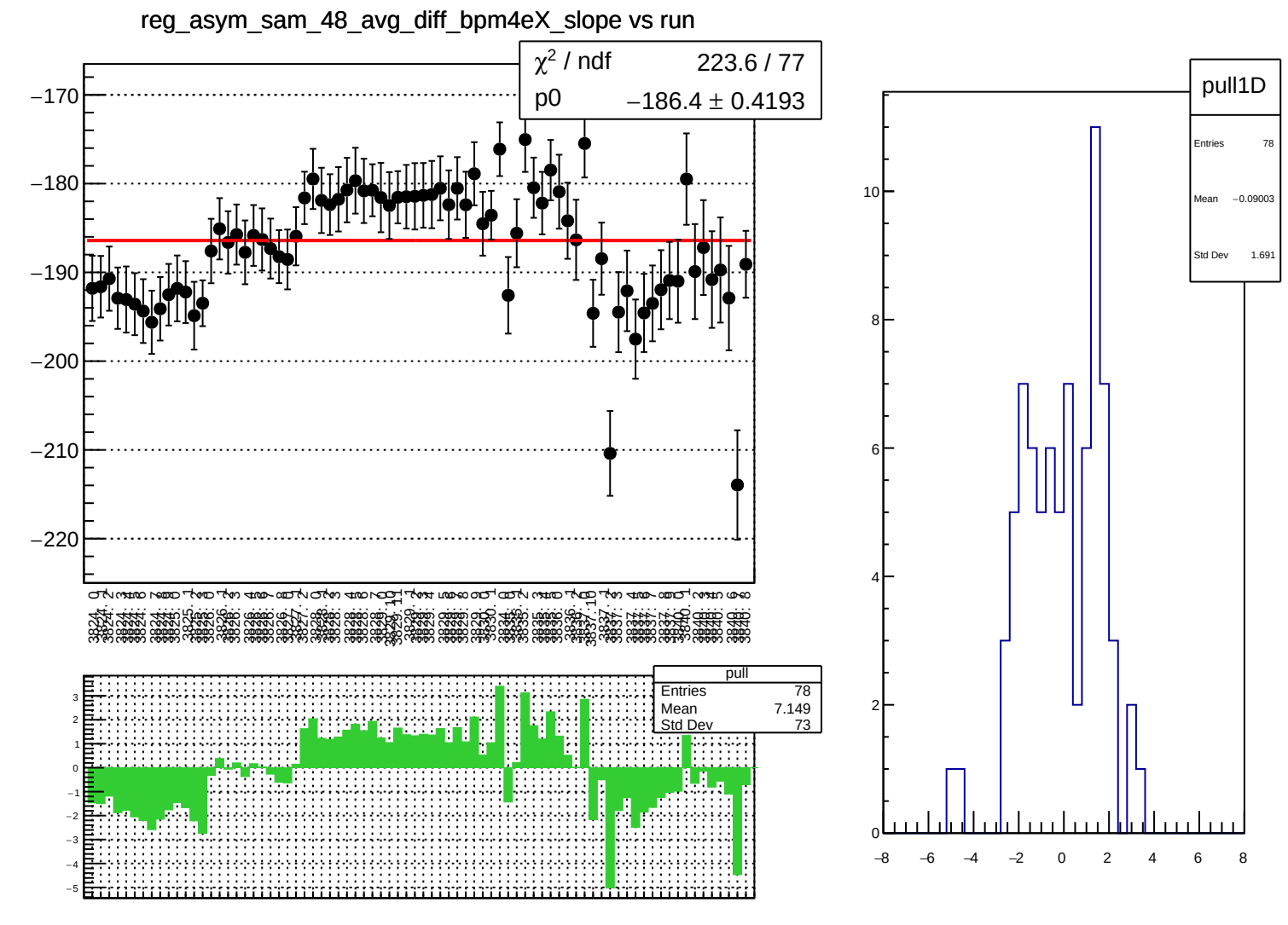

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 97.28 / 77
p0 −15.46 ± 1.319
pull
Entries 78
Mean −217.7
Std Dev 258.8

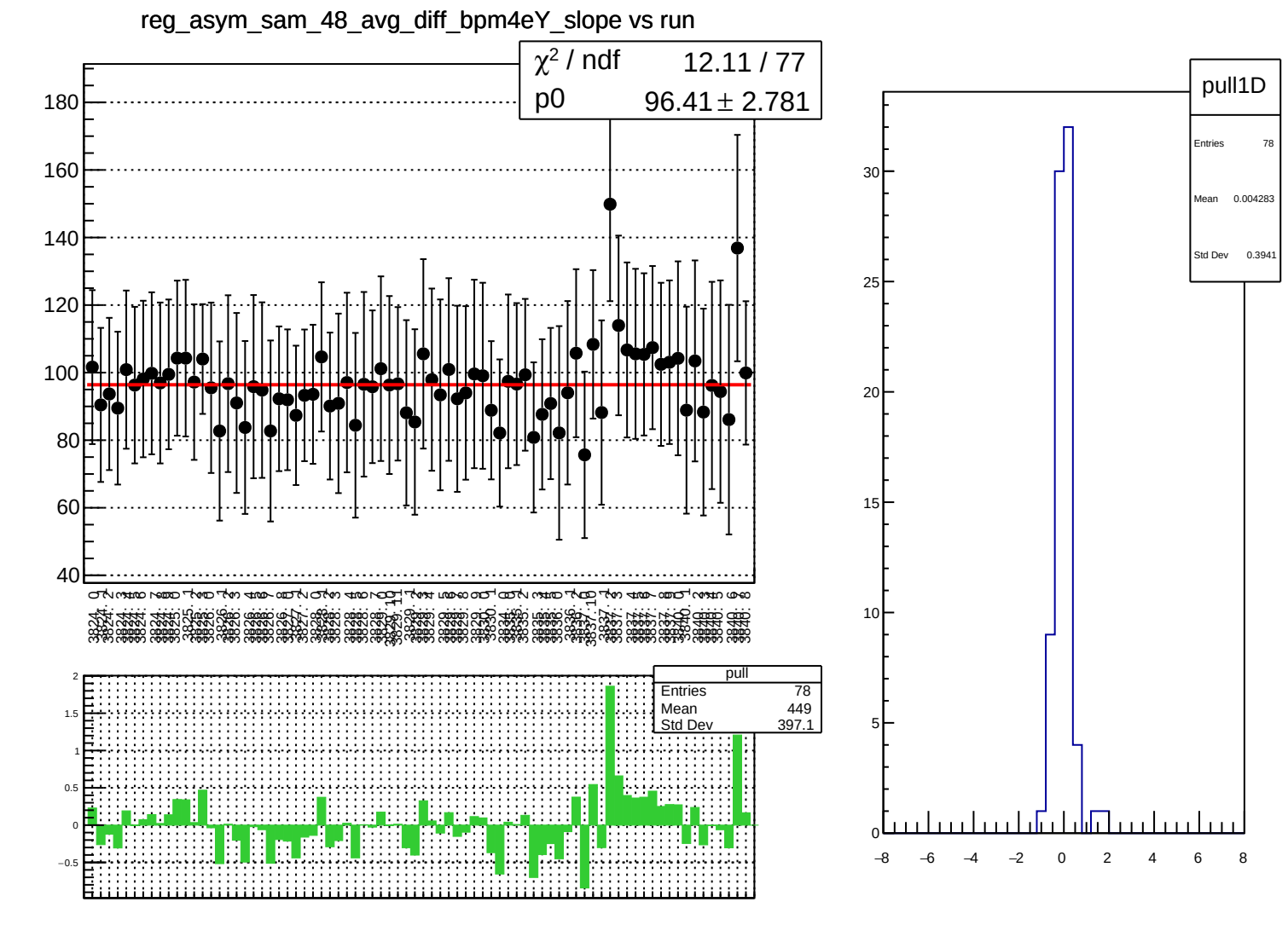

pull1D
Entries 78
Mean 0.03558
Std Dev 1.116

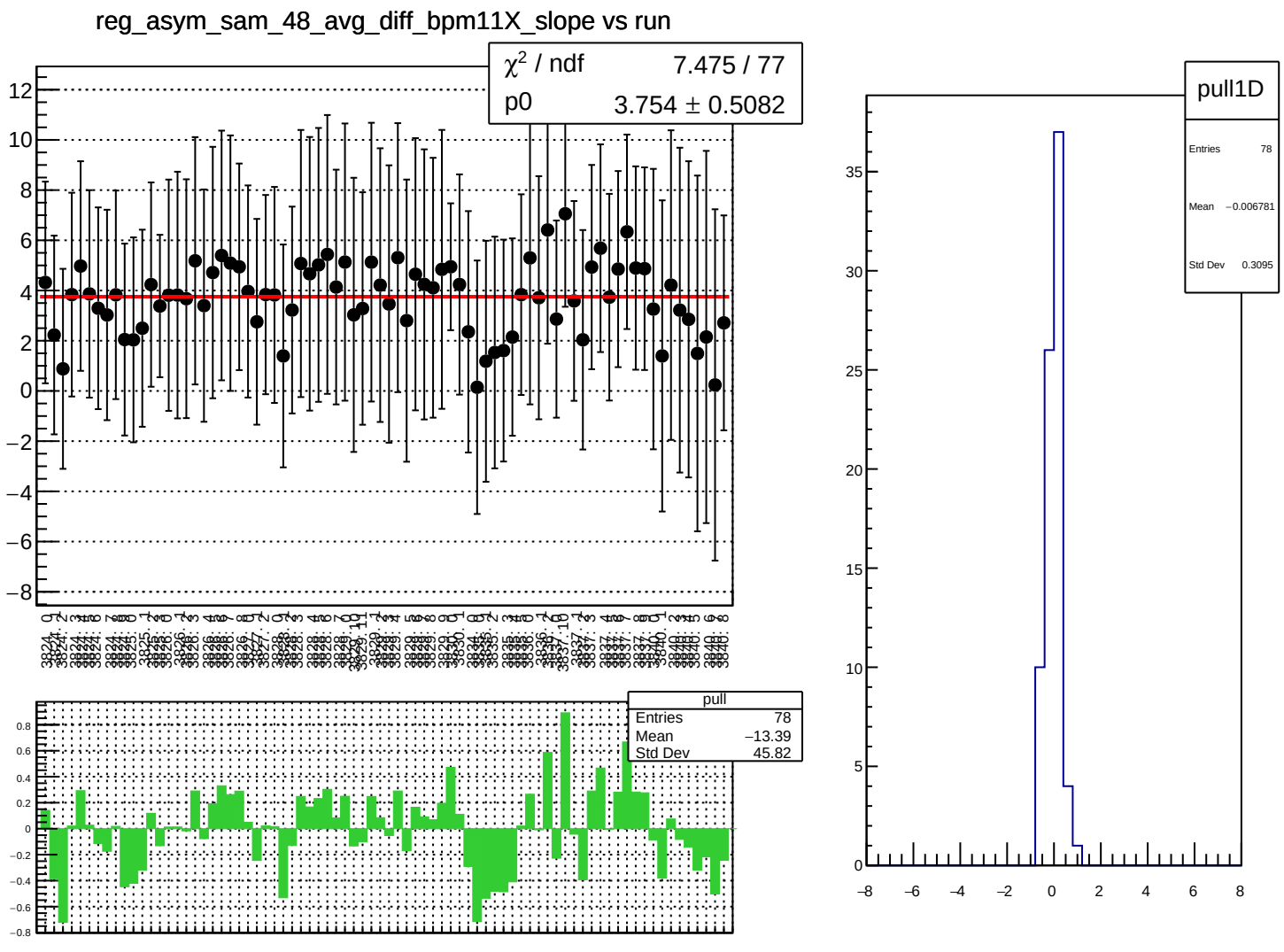

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 21.41 / 77
p0 46.25 ± 2.393
pull
Entries 78
Mean −139.4
Std Dev 198.8
pull1D
Entries 78
Mean −0.01162
Std Dev 0.5238

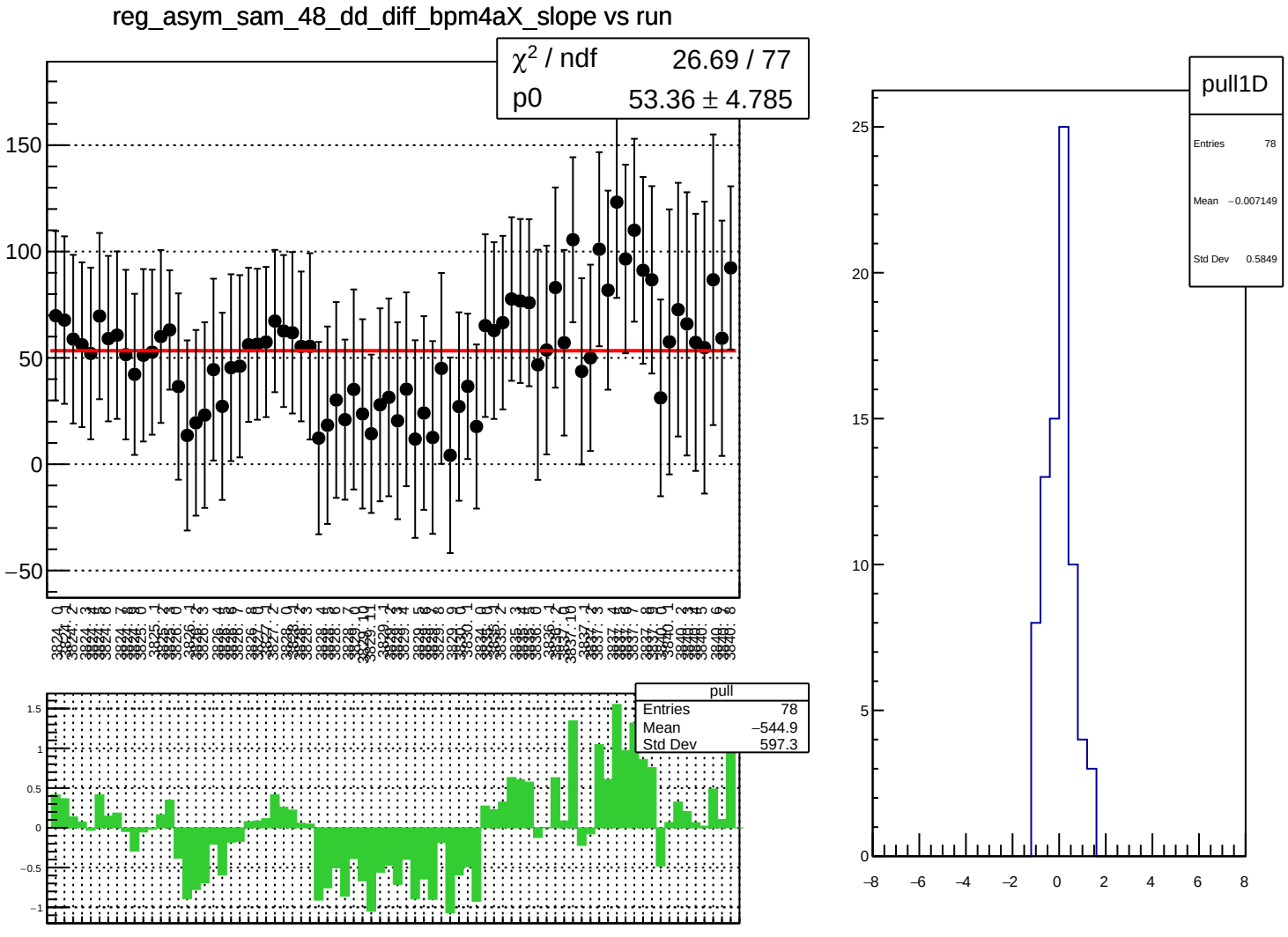

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 26 / 77
p0 4.408 ± 1.789
pull
Entries 78
Mean 203.5
Std Dev 161

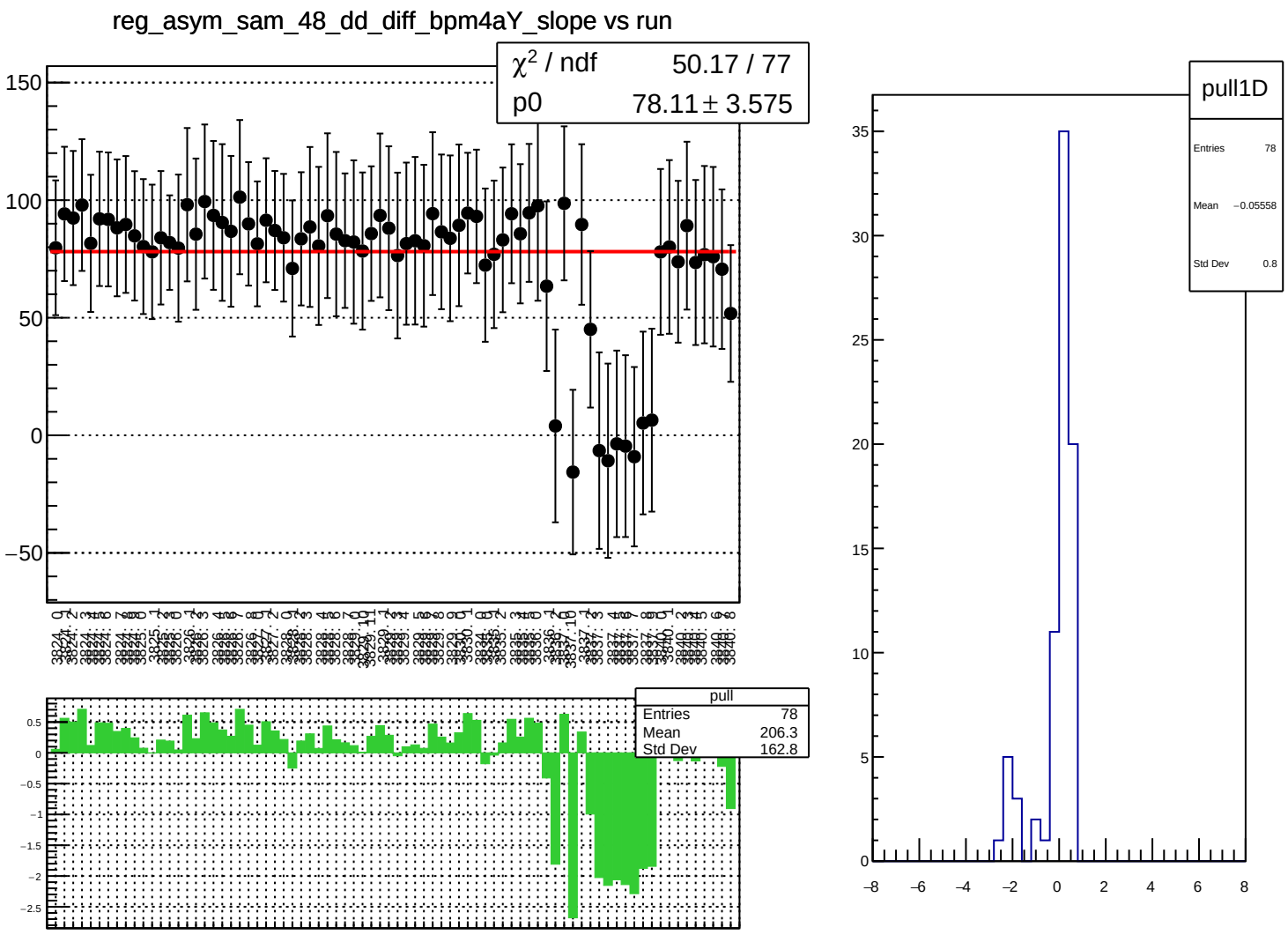

pull1D
Entries 78
Mean −0.04279
Std Dev 0.5757

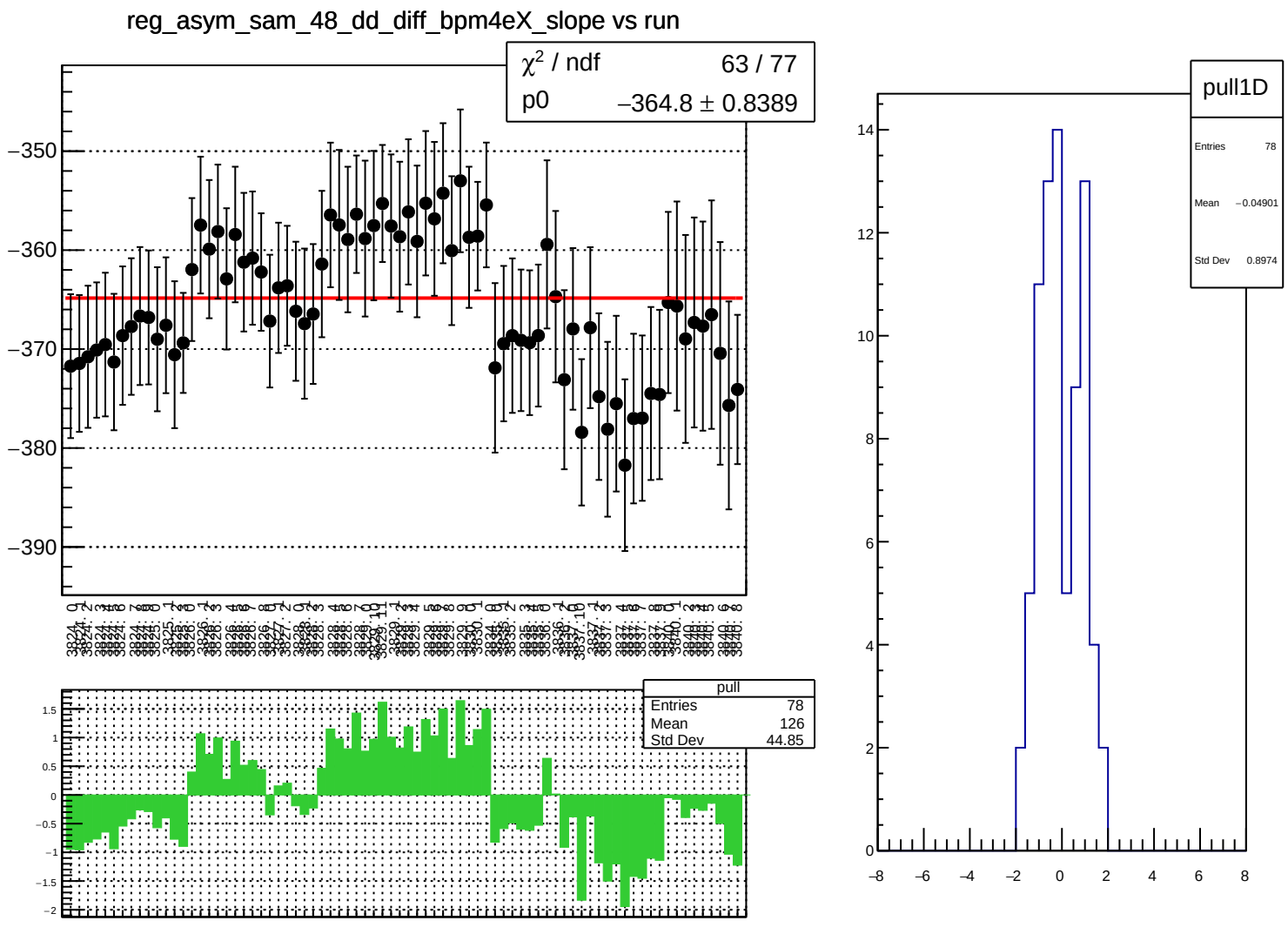

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 223.6 / 77
p0 −186.4 ± 0.4193
−170
−180
−190
−200
−210
−220
pull
Entries 78
Mean 7.149
Std Dev 73
pull1D
Entries 78
Mean −0.09003
Std Dev 1.691

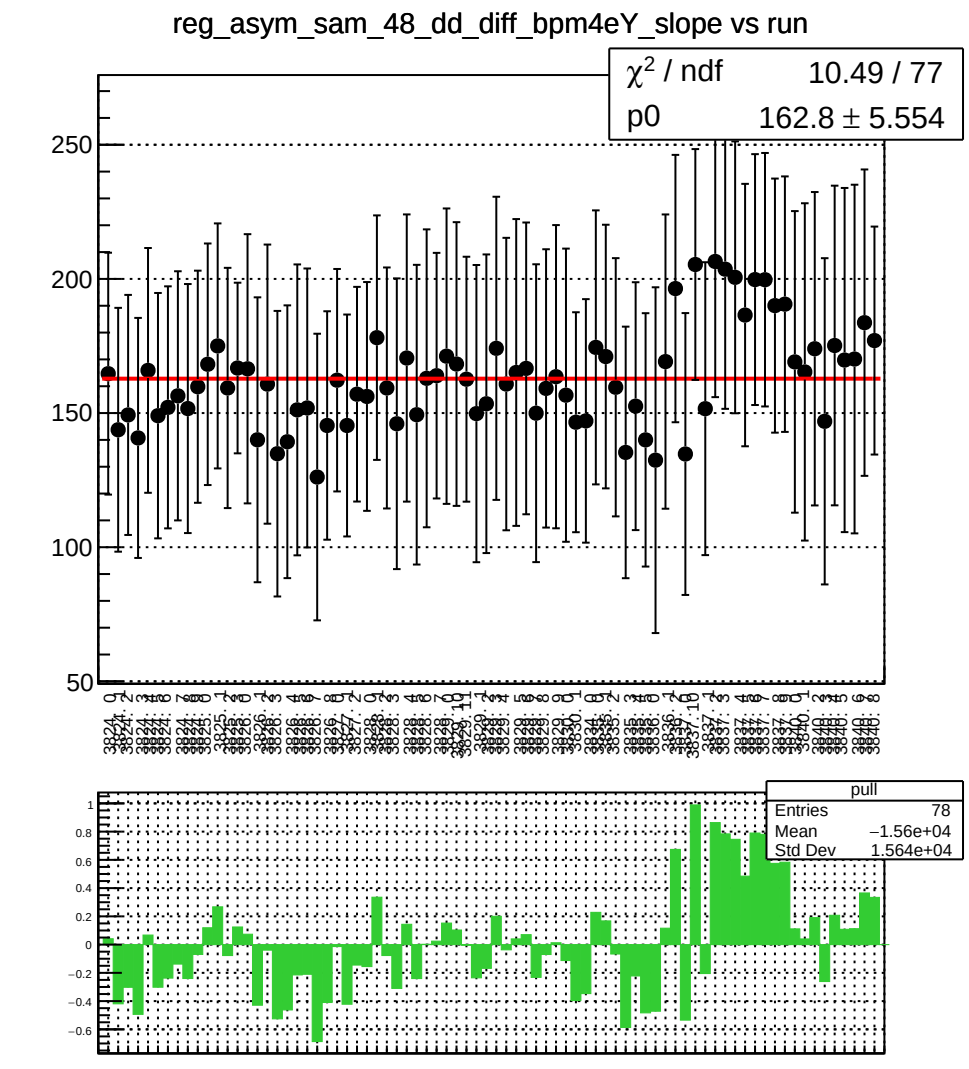

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.11 / 77
p0 96.41 ± 2.781
pull
Entries 78
Mean 449
Std Dev 397.1
pull1D
Entries 78
Mean 0.004283
Std Dev 0.3941

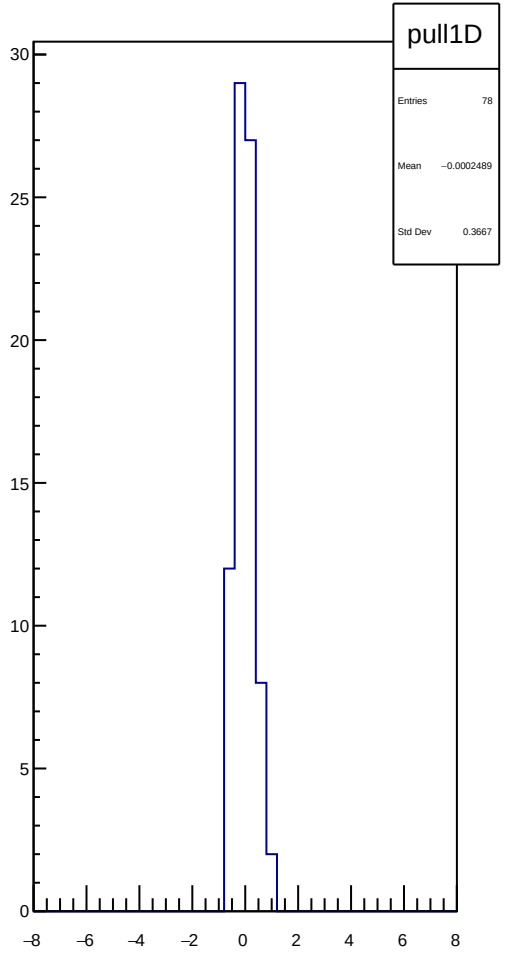

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 7.475 / 77
p0 3.754 ± 0.5082
pull
Entries 78
Mean −13.39
Std Dev 45.82
pull1D
Entries 78
Mean −0.006781
Std Dev 0.3095

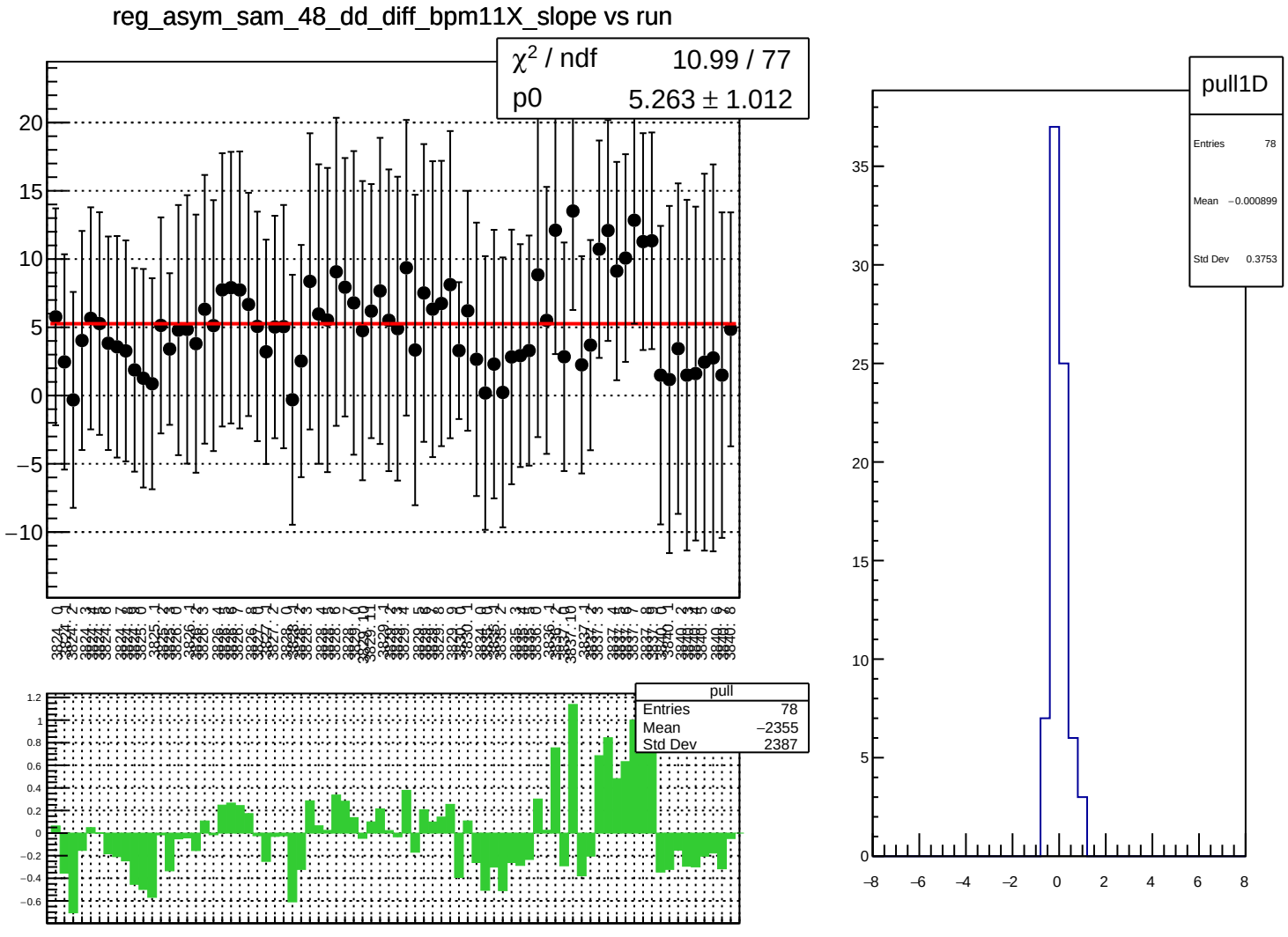

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 26.69 / 77
p0 53.36 ± 4.785
150
100
50
0
−50
pull
Entries 78
Mean −544.9
Std Dev 597.3
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 78
Mean −0.007149
Std Dev 0.5849
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

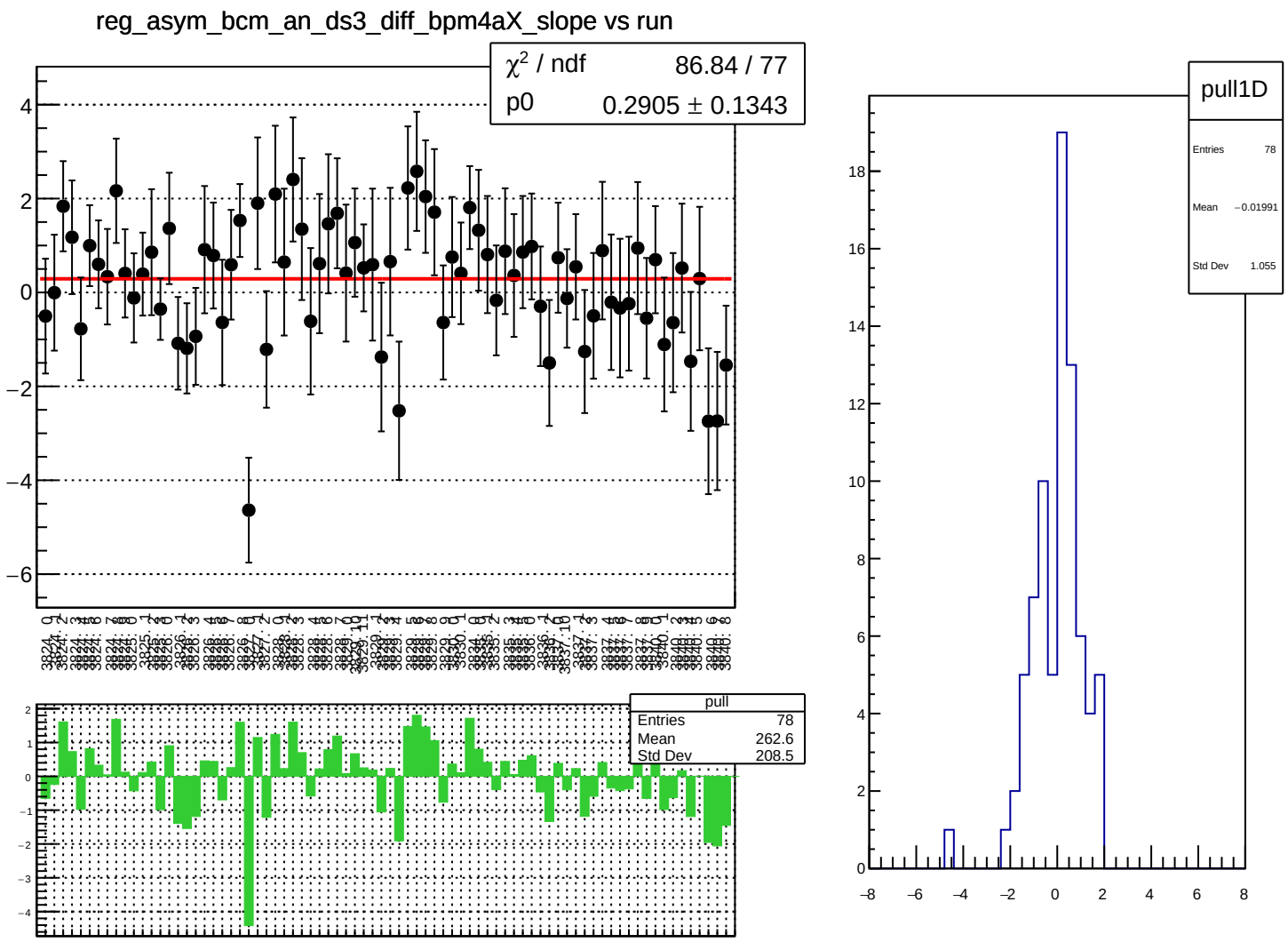

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.17 / 77
p0 78.11 ± 3.575
150
100
50
0
−50
pull
Entries 78
Mean 206.3
Std Dev 162.8
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 78
Mean −0.05558
Std Dev 0.8
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

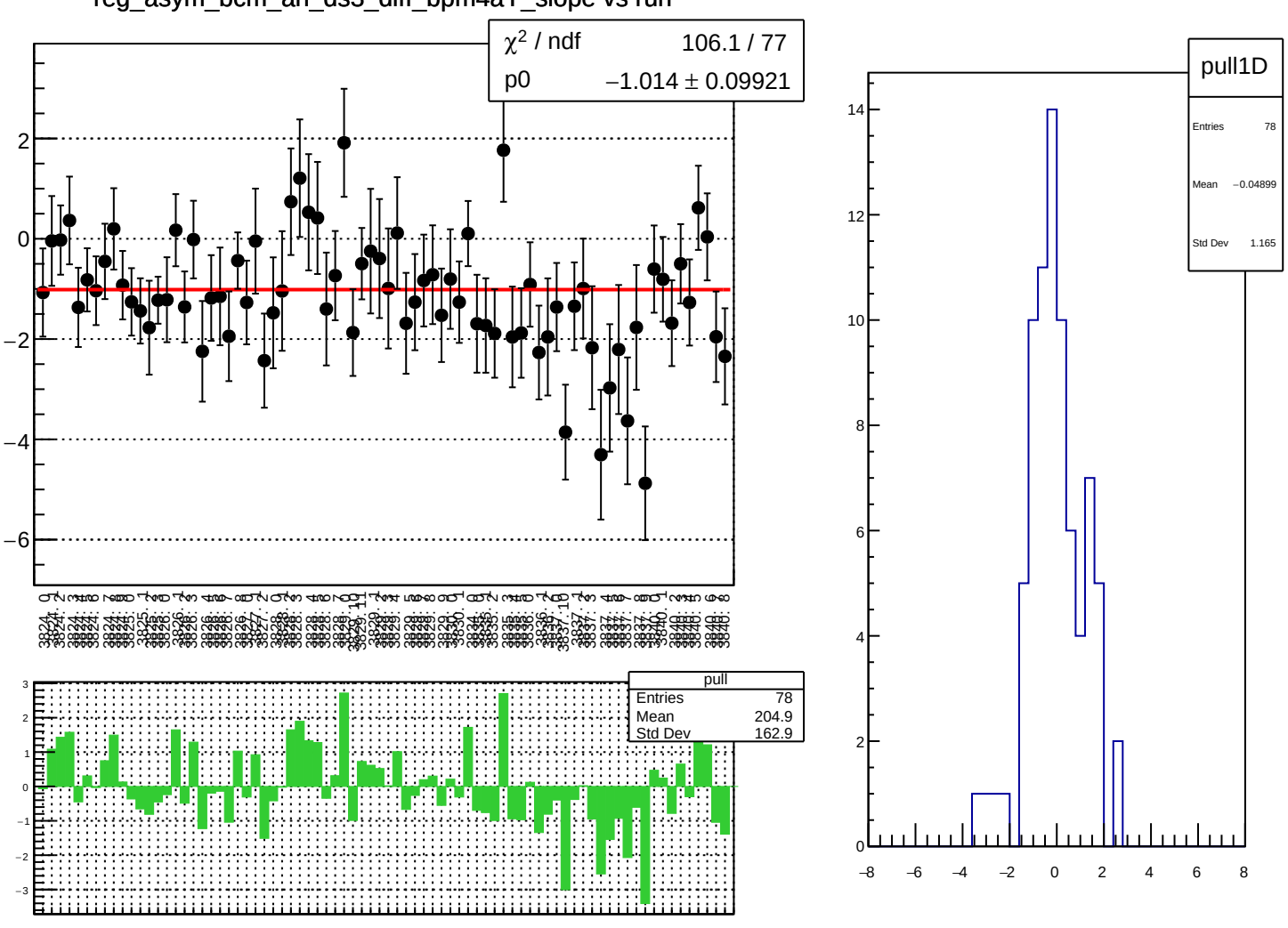

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 63 / 77
p0 −364.8 ± 0.8389
pull
Entries 78
Mean 126
Std Dev 44.85
pull1D
Entries 78
Mean −0.04901
Std Dev 0.8974

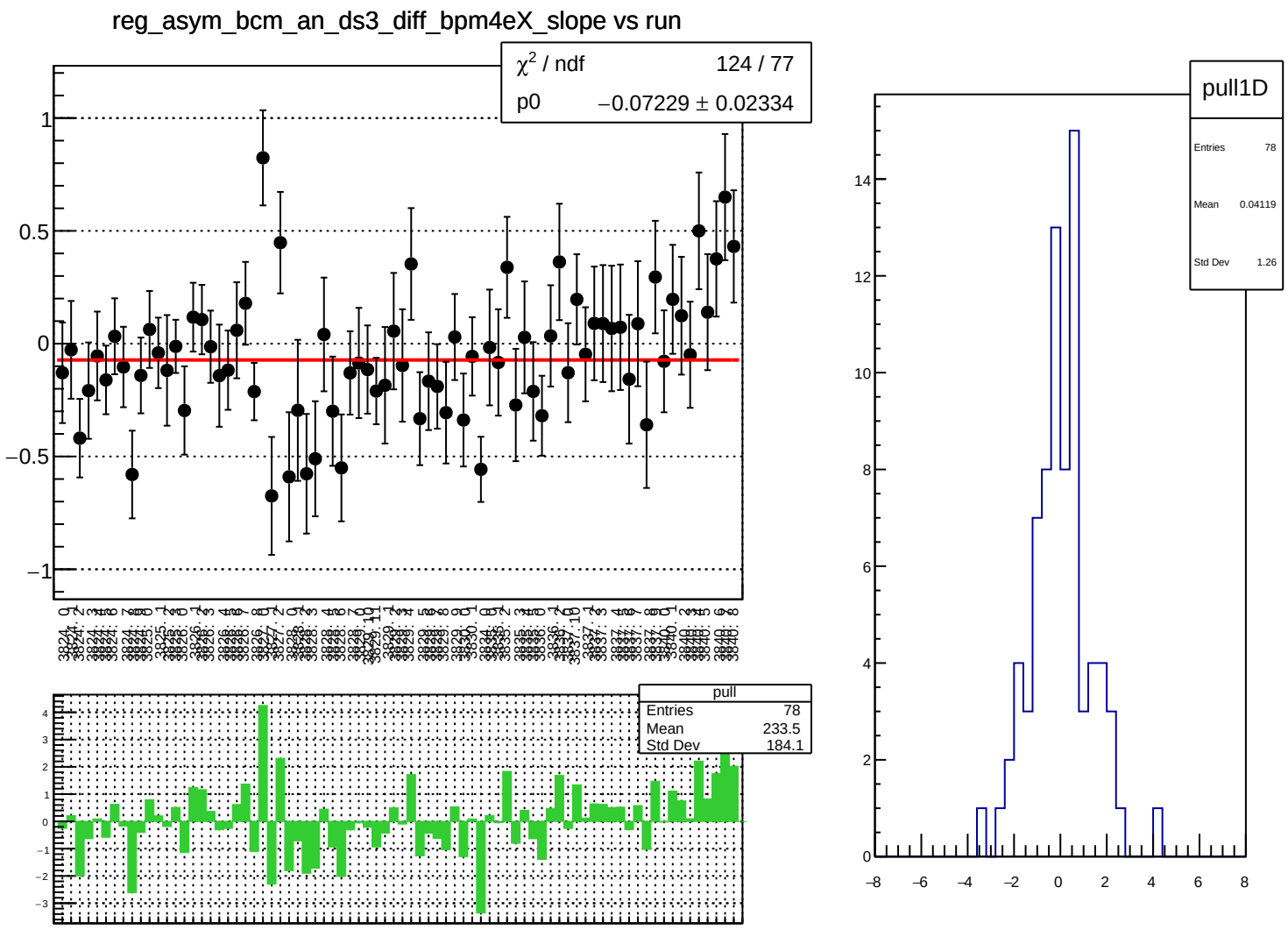

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.49 / 77
p0 162.8 ± 5.554
250
200
150
100
50
pull
Entries 78
Mean −1.56e+04
Std Dev 1.564e+04
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

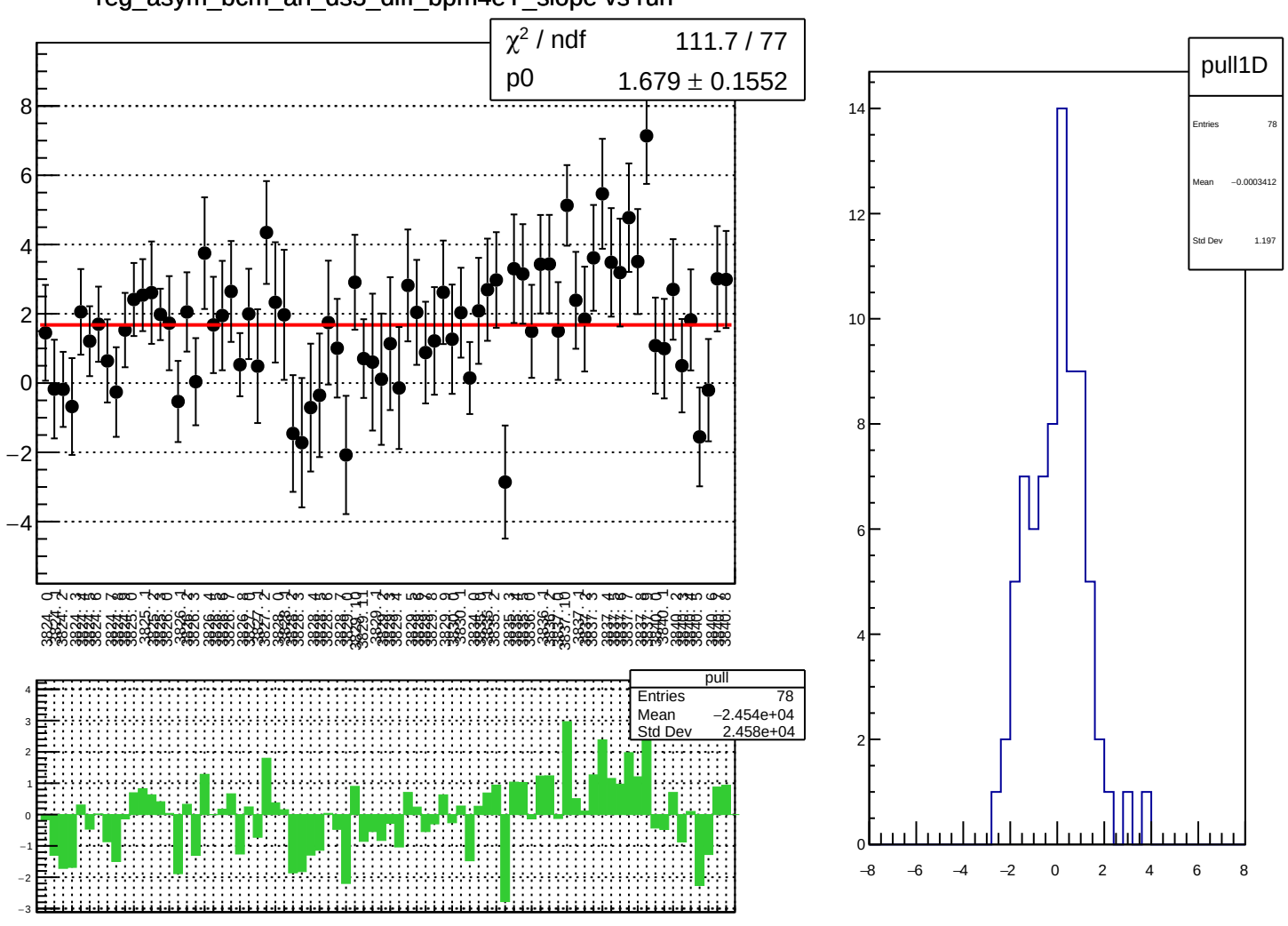

pull1D
Entries 78
Mean −0.0002489
Std Dev 0.3667
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

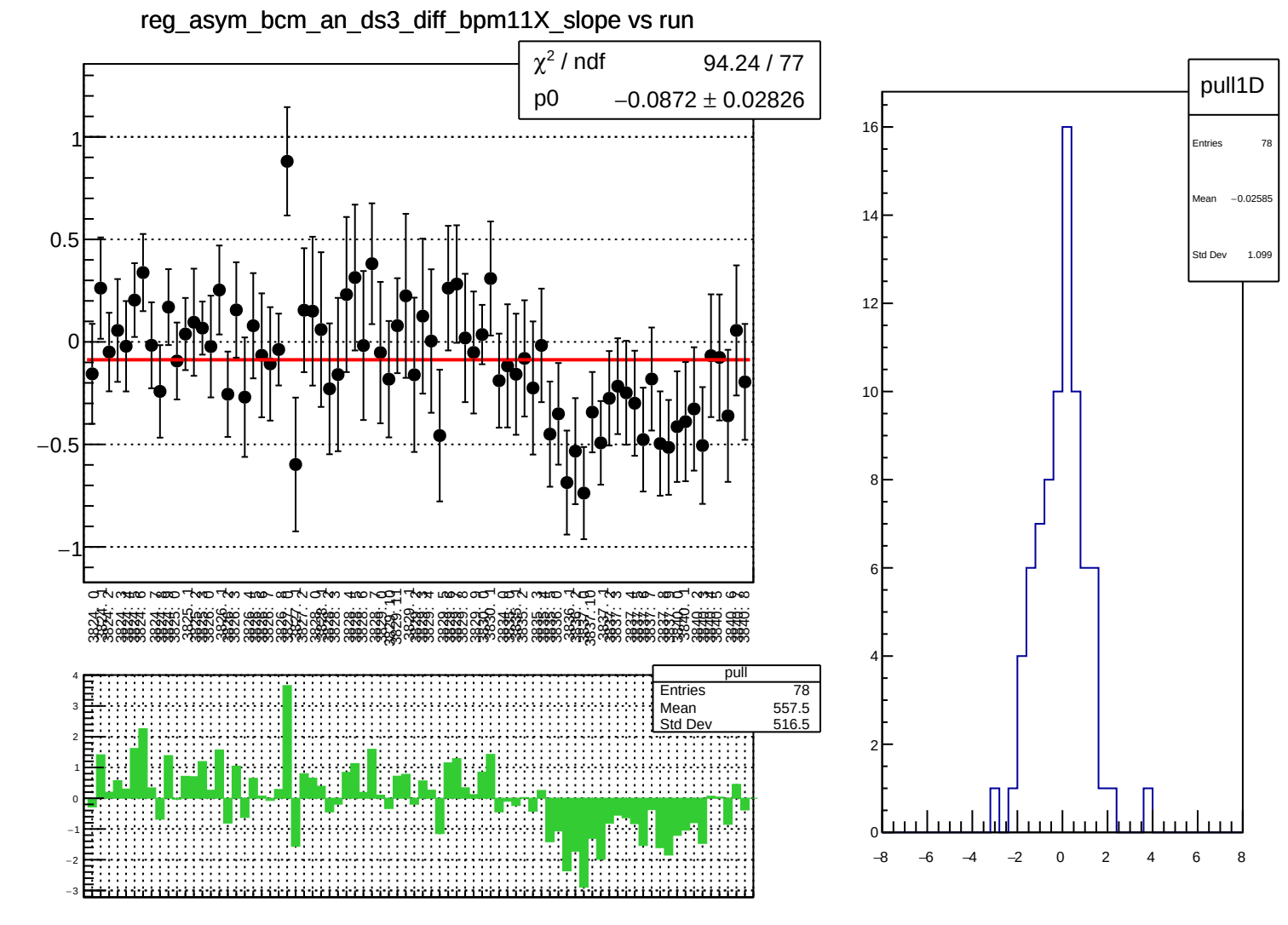

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 10.99 / 77
p0 5.263 ± 1.012
pull
Entries 78
Mean −2355
Std Dev 2387
pull1D
Entries 78
Mean −0.000899
Std Dev 0.3753

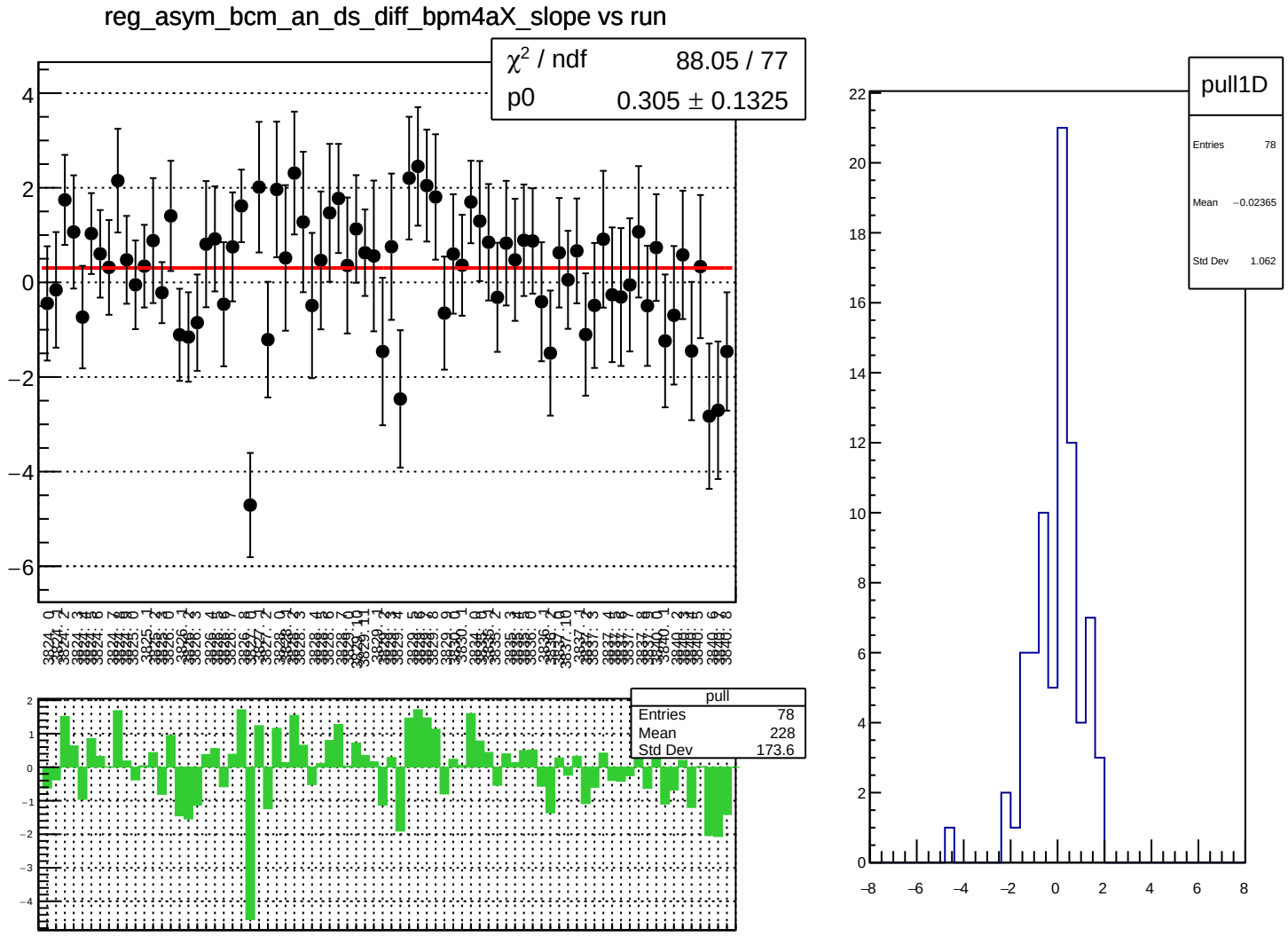

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 86.84 / 77
p0 0.2905 ± 0.1343
pull
Entries 78
Mean 262.6
Std Dev 208.5
pull1D
Entries 78
Mean −0.01991
Std Dev 1.055

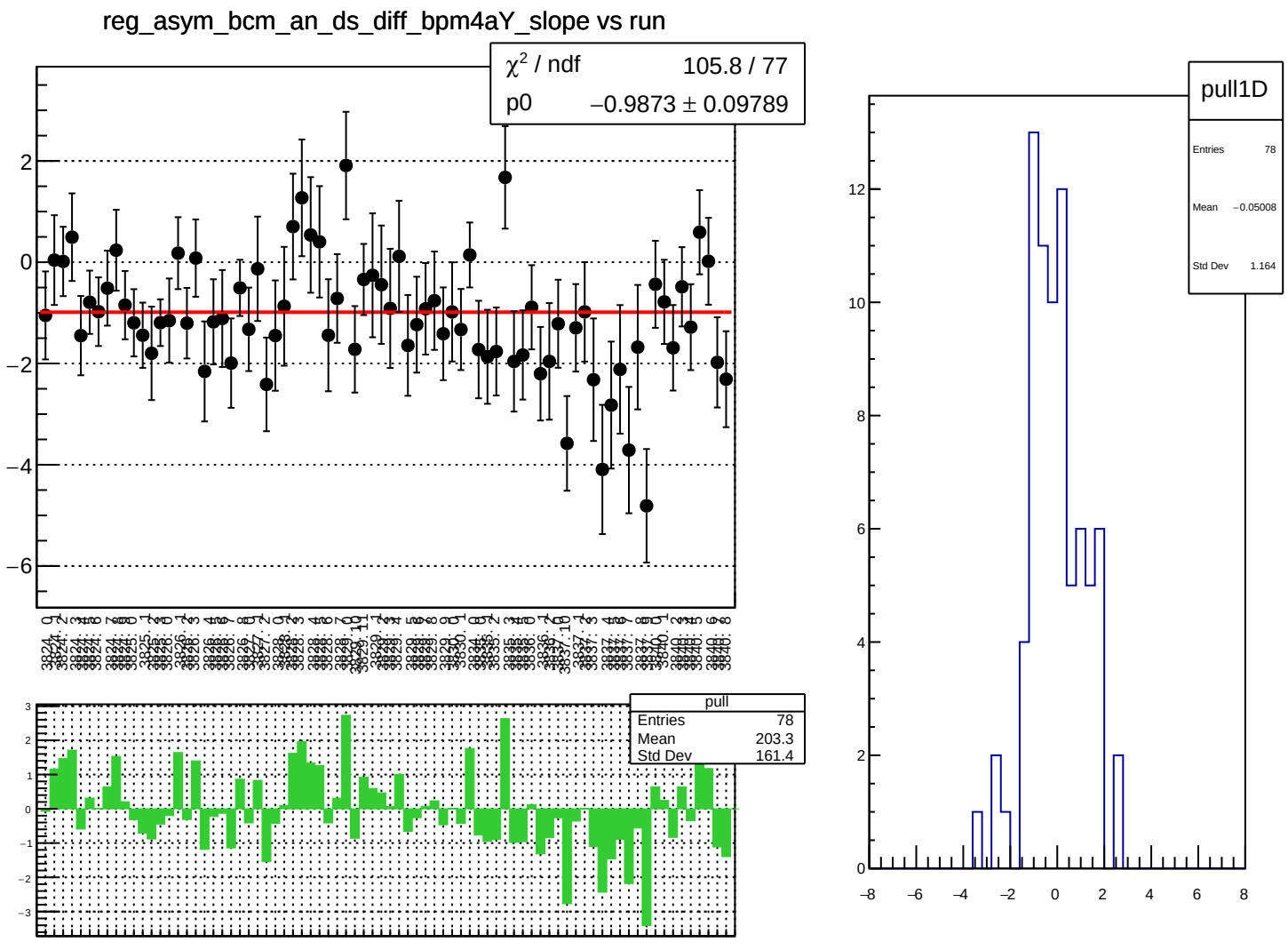

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 106.1 / 77
p0 −1.014 ± 0.09921
pull
Entries 78
Mean 204.9
Std Dev 162.9
pull1D
Entries 78
Mean −0.04899
Std Dev 1.165

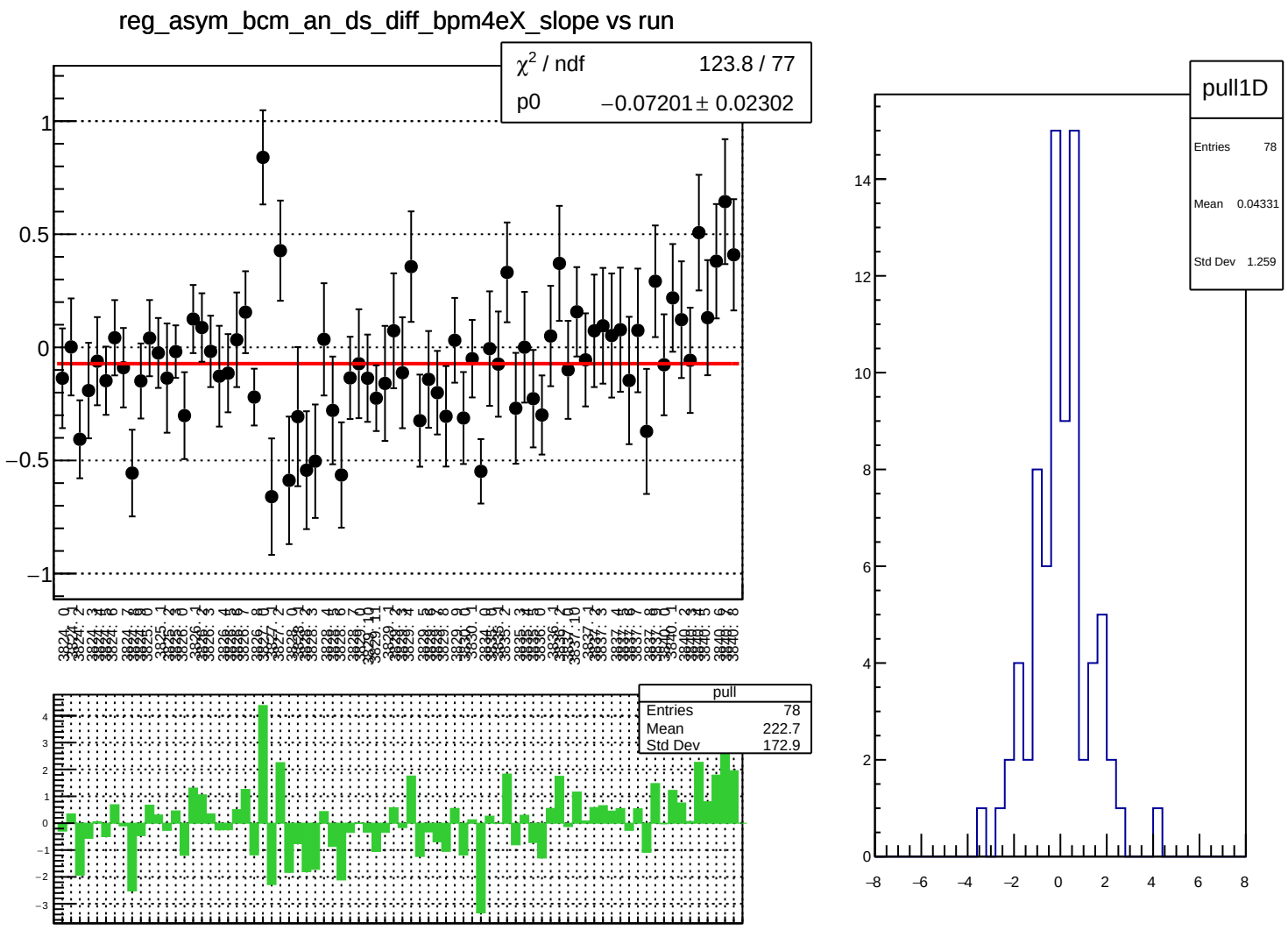

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 124 / 77
p0 −0.07229 ± 0.02334
pull
Entries 78
Mean 233.5
Std Dev 184.1
pull1D
Entries 78
Mean 0.04119
Std Dev 1.26

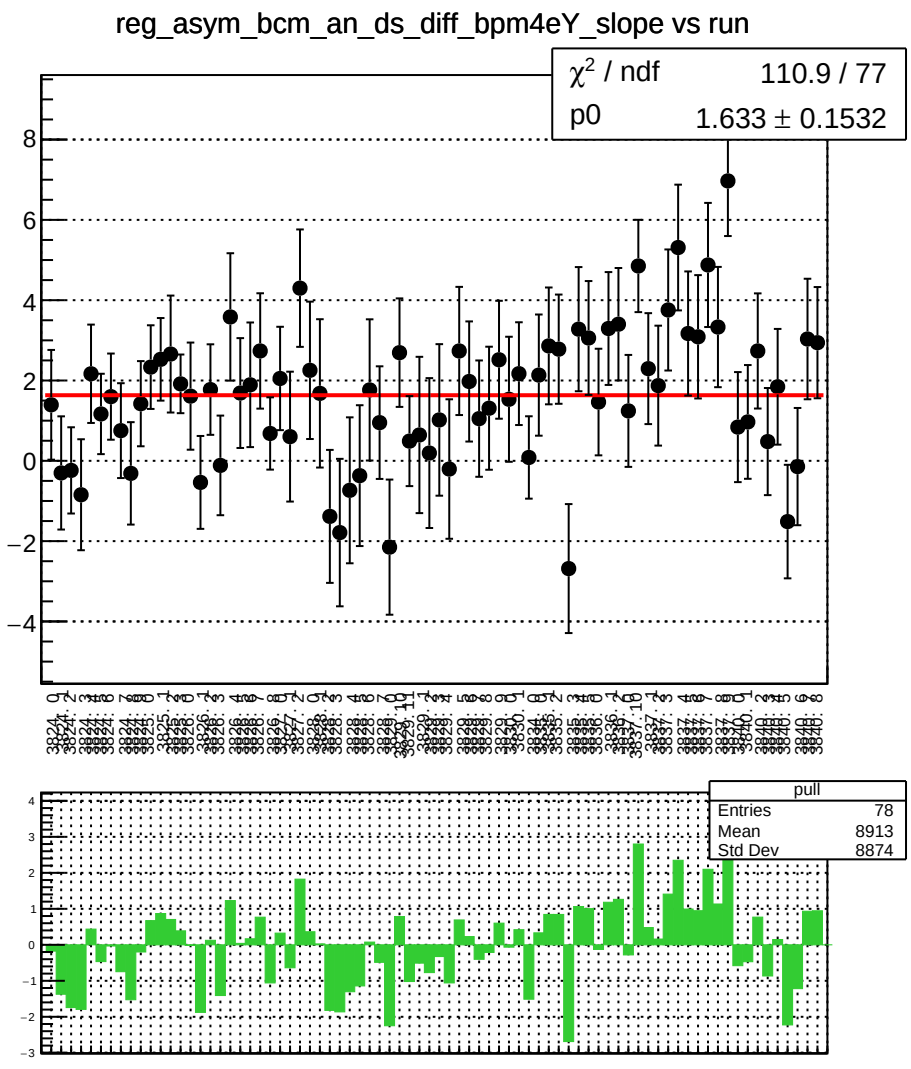

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 111.7 / 77
p0 1.679 ± 0.1552
pull
Entries 78
Mean −2.454e+04
Std Dev 2.458e+04
pull1D
Entries 78
Mean −0.0003412
Std Dev 1.197

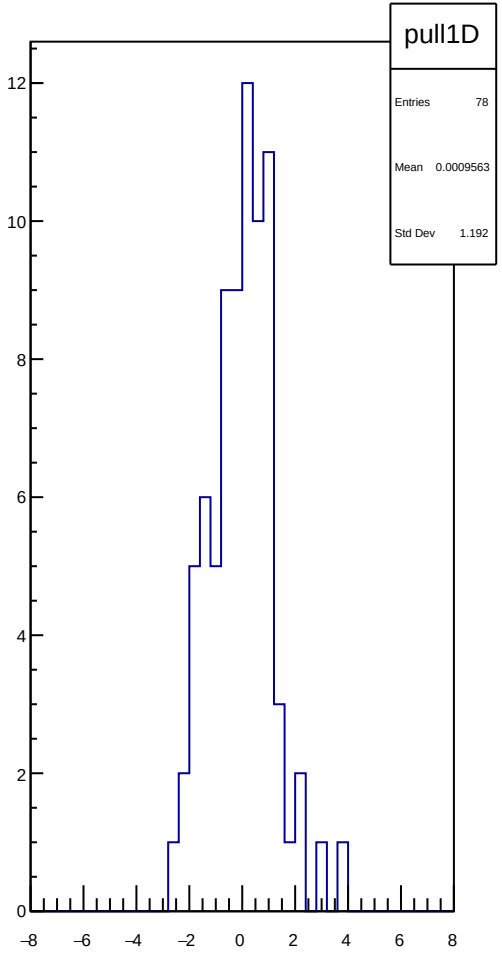

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 94.24 / 77
p0 −0.0872 ± 0.02826
pull
Entries 78
Mean 557.5
Std Dev 516.5
pull1D
Entries 78
Mean −0.02585
Std Dev 1.099

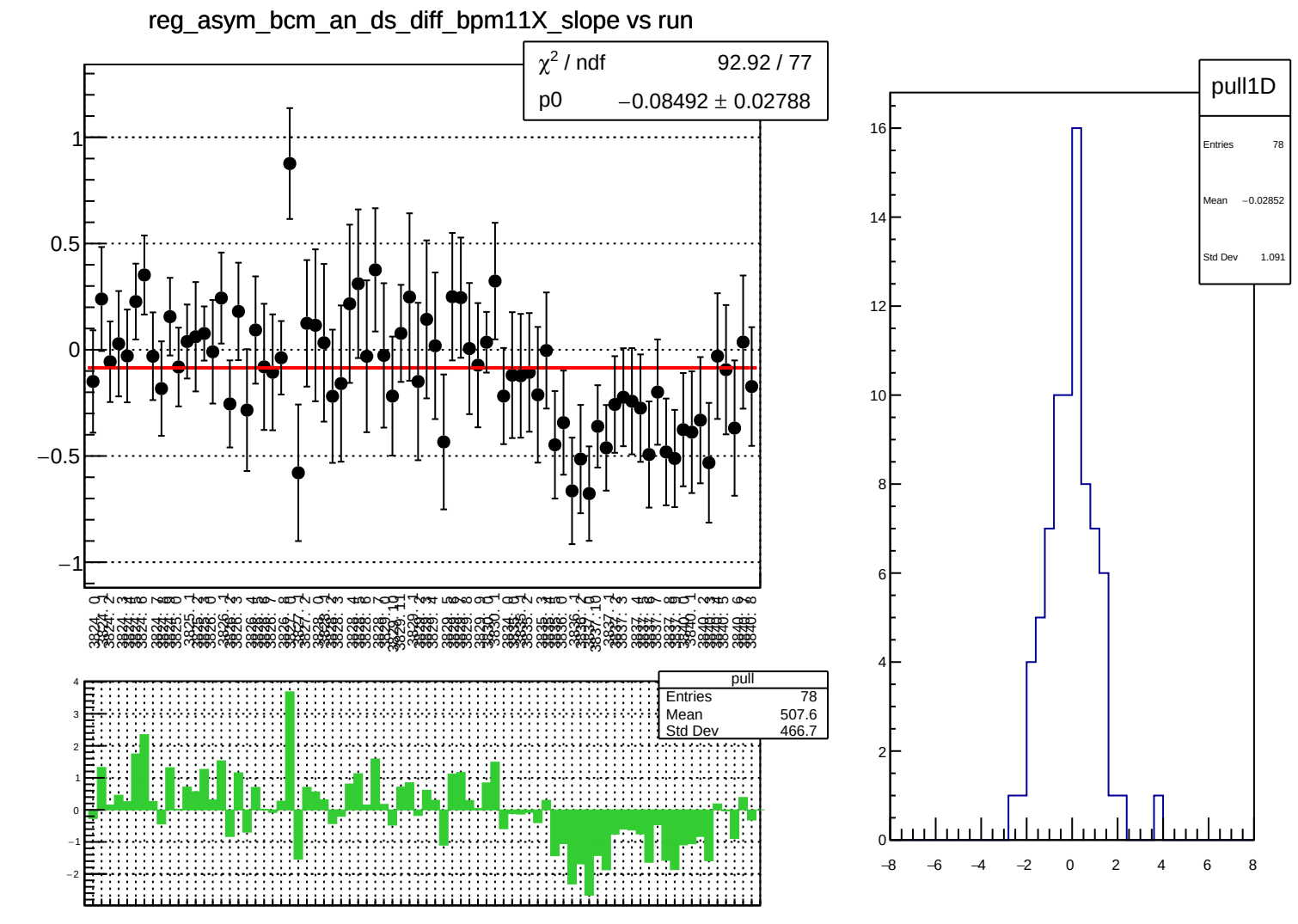

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 88.05 / 77
p0 0.305 ± 0.1325
pull
Entries 78
Mean 228
Std Dev 173.6
pull1D
Entries 78
Mean −0.02365
Std Dev 1.062

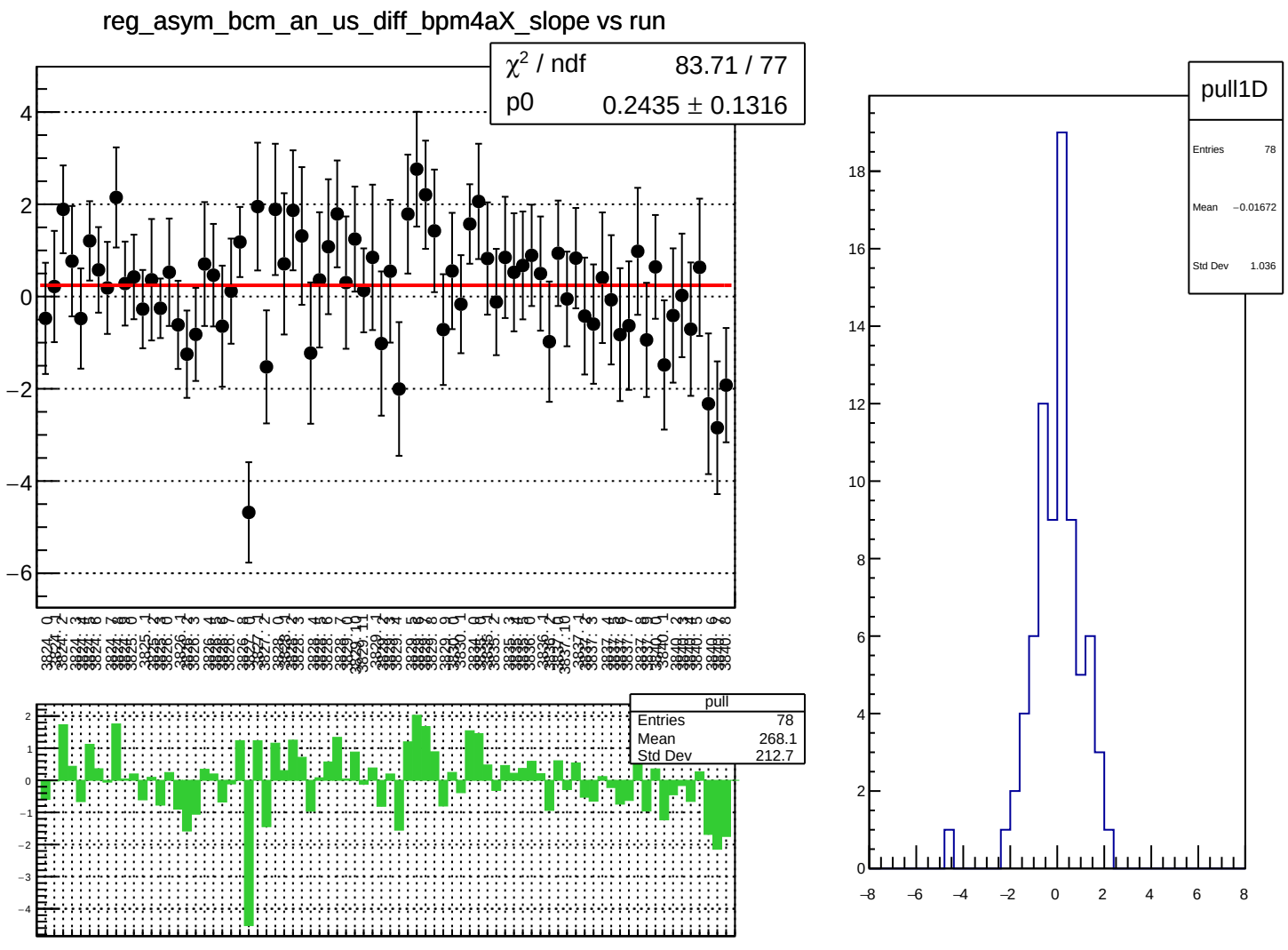

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 105.8 / 77
p0 −0.9873 ± 0.09789
pull
Entries 78
Mean 203.3
Std Dev 161.4
pull1D
Entries 78
Mean −0.05008
Std Dev 1.164

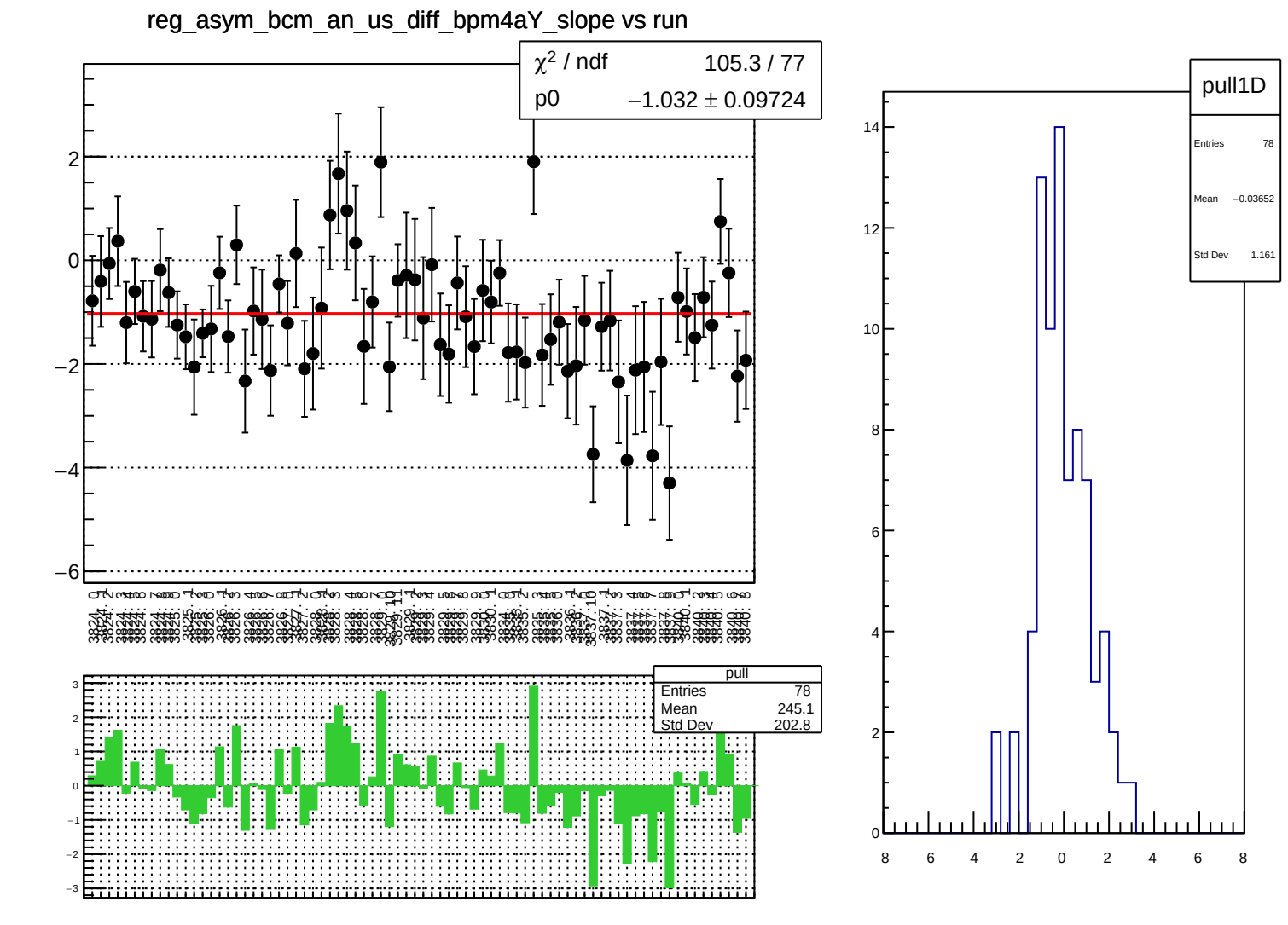

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 123.8 / 77
p0 −0.07201 ± 0.02302
pull
Entries 78
Mean 222.7
Std Dev 172.9
pull1D
Entries 78
Mean 0.04331
Std Dev 1.259

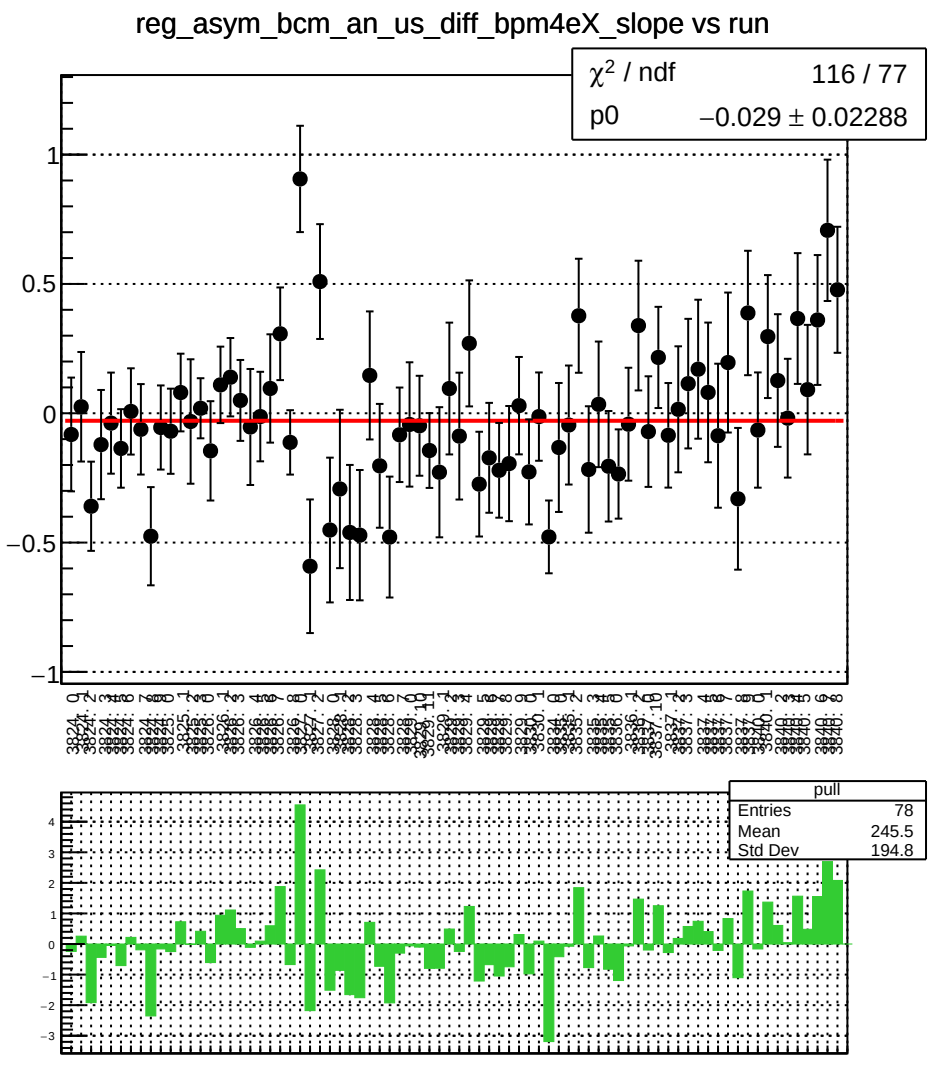

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 110.9 / 77
p0 1.633 ± 0.1532
pull
Entries 78
Mean 8913
Std Dev 8874

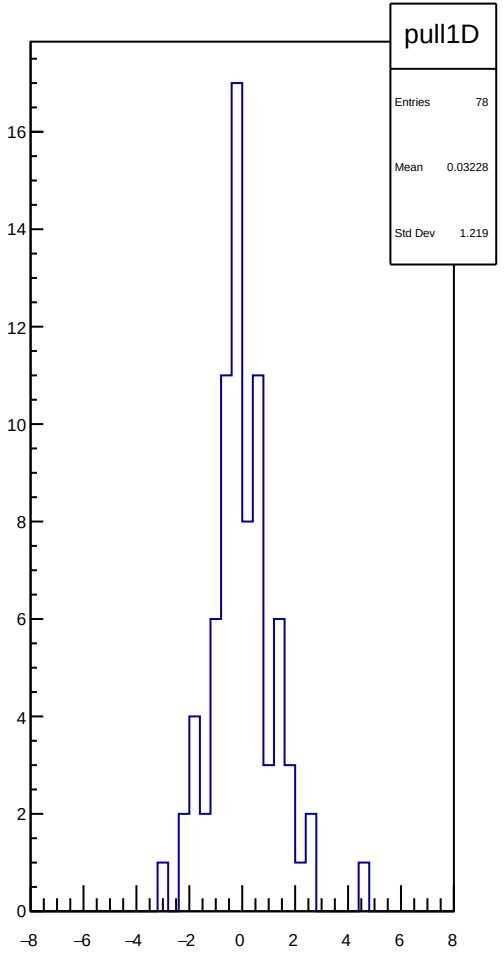

pull1D
Entries 78
Mean 0.0009563
Std Dev 1.192

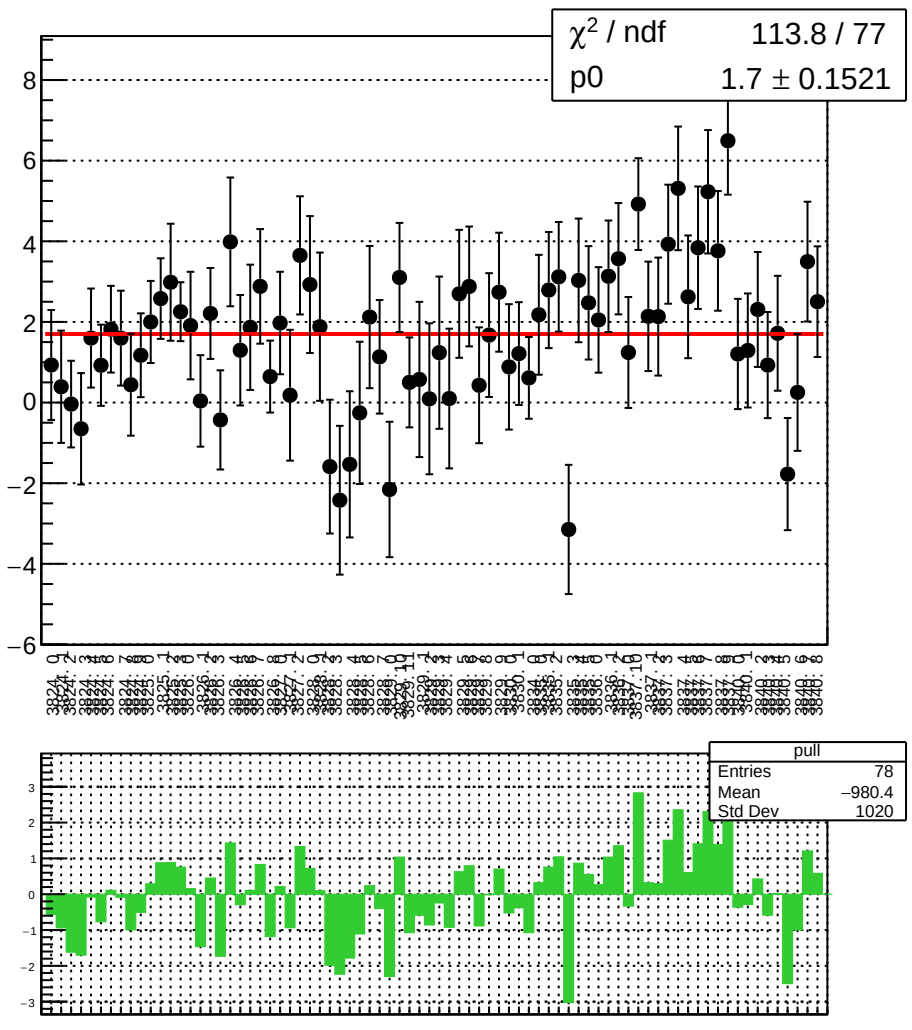

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 92.92 / 77
p0 −0.08492 ± 0.02788
pull
Entries 78
Mean 507.6
Std Dev 466.7
pull1D
Entries 78
Mean −0.02852
Std Dev 1.091

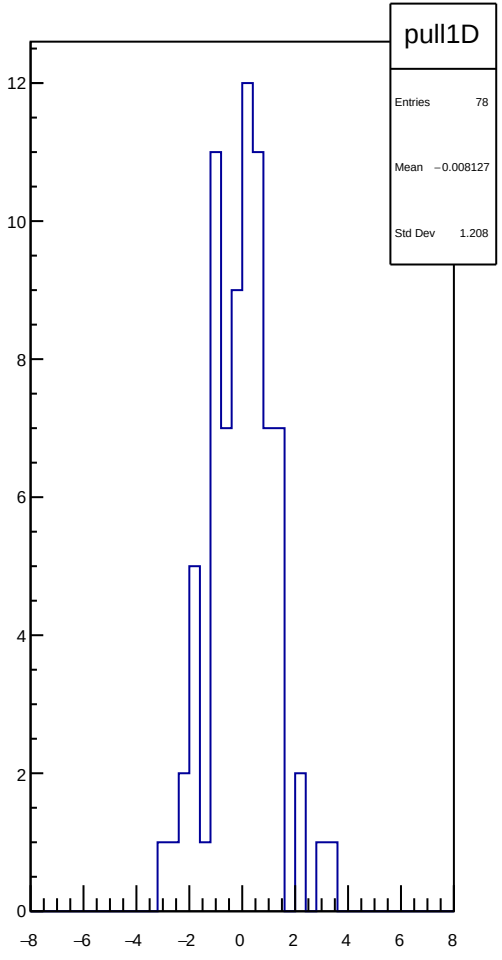

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 83.71 / 77
p0 0.2435 ± 0.1316
pull
Entries 78
Mean 268.1
Std Dev 212.7
pull1D
Entries 78
Mean −0.01672
Std Dev 1.036

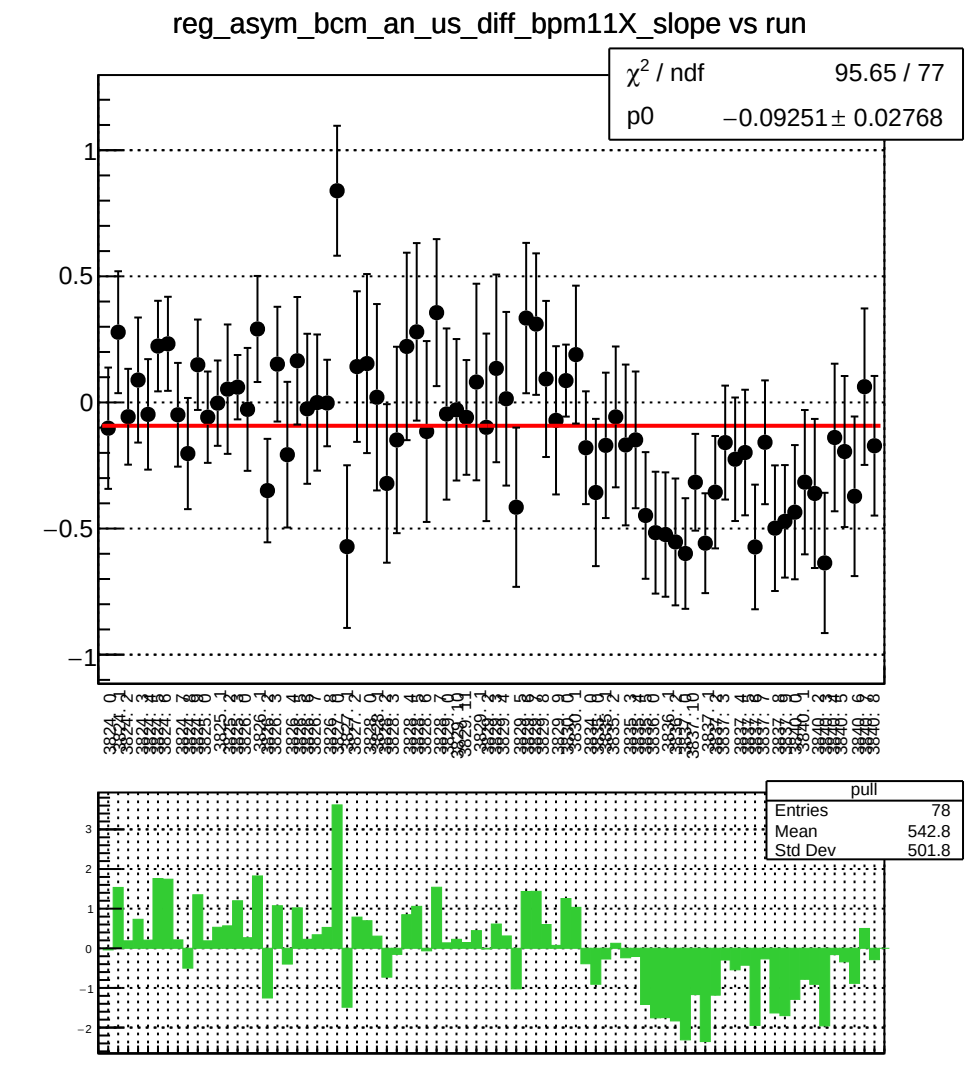

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 105.3 / 77
p0 −1.032 ± 0.09724
pull
Entries 78
Mean 245.1
Std Dev 202.8
pull1D
Entries 78
Mean −0.03652
Std Dev 1.161

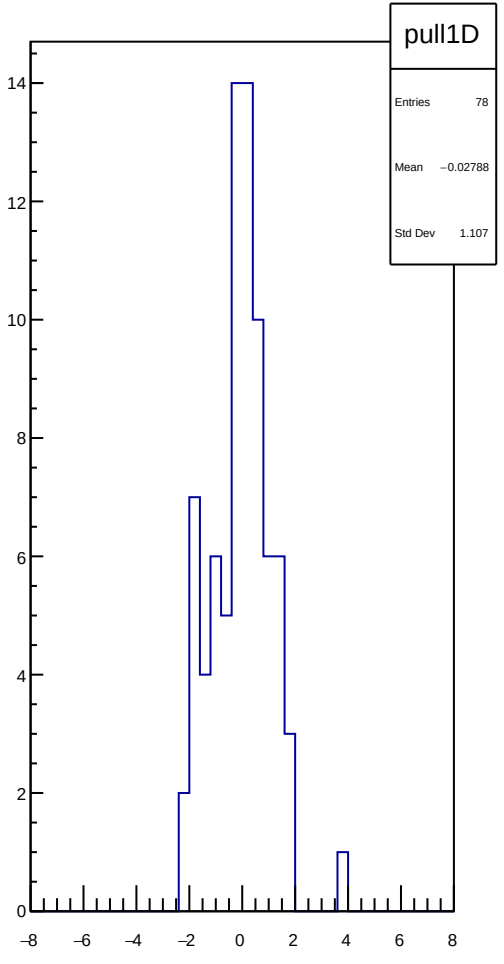

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 116 / 77
p0 −0.029 ± 0.02288
pull
Entries 78
Mean 245.5
Std Dev 194.8

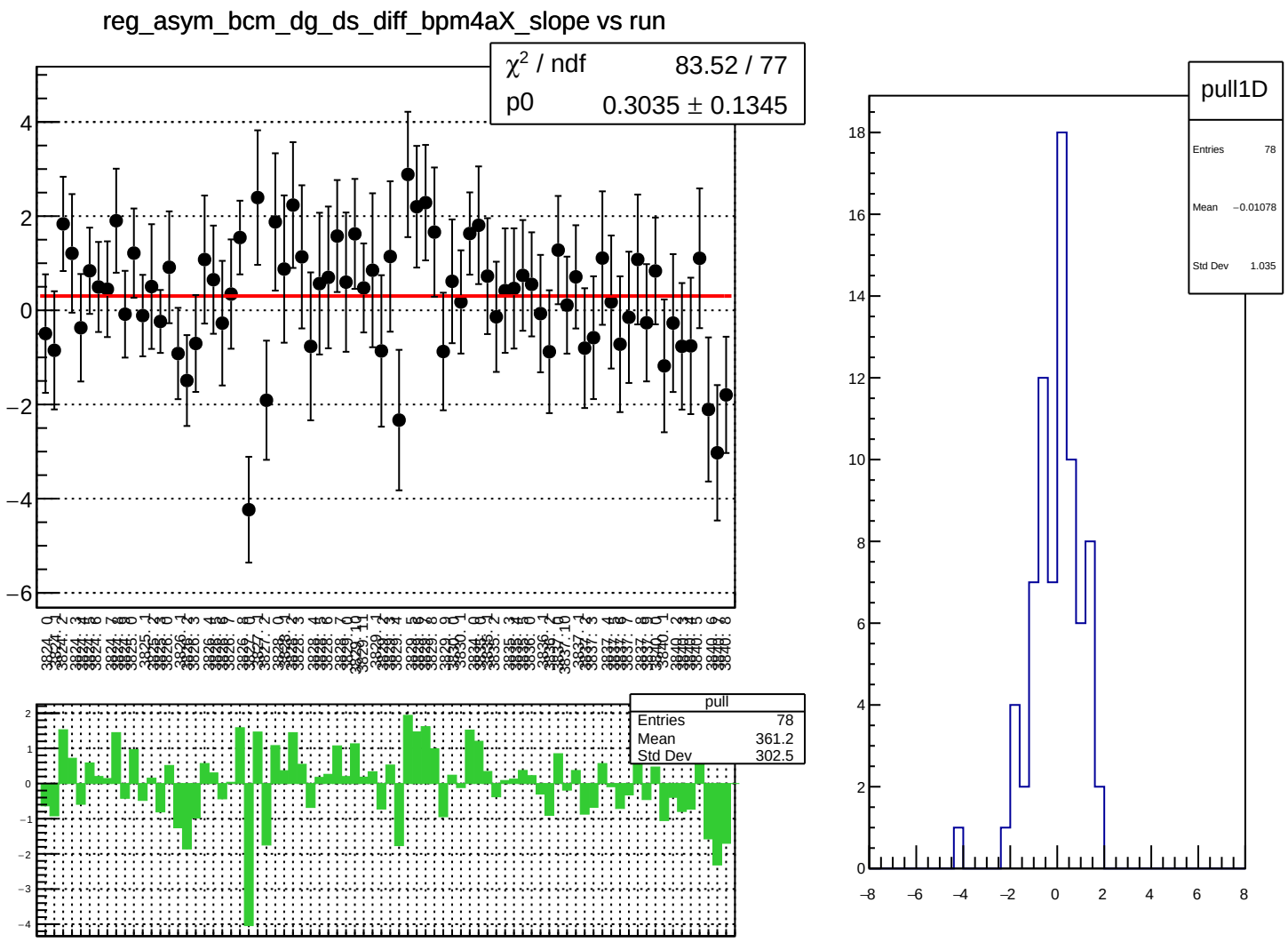

pull1D
Entries 78
Mean 0.03228
Std Dev 1.219

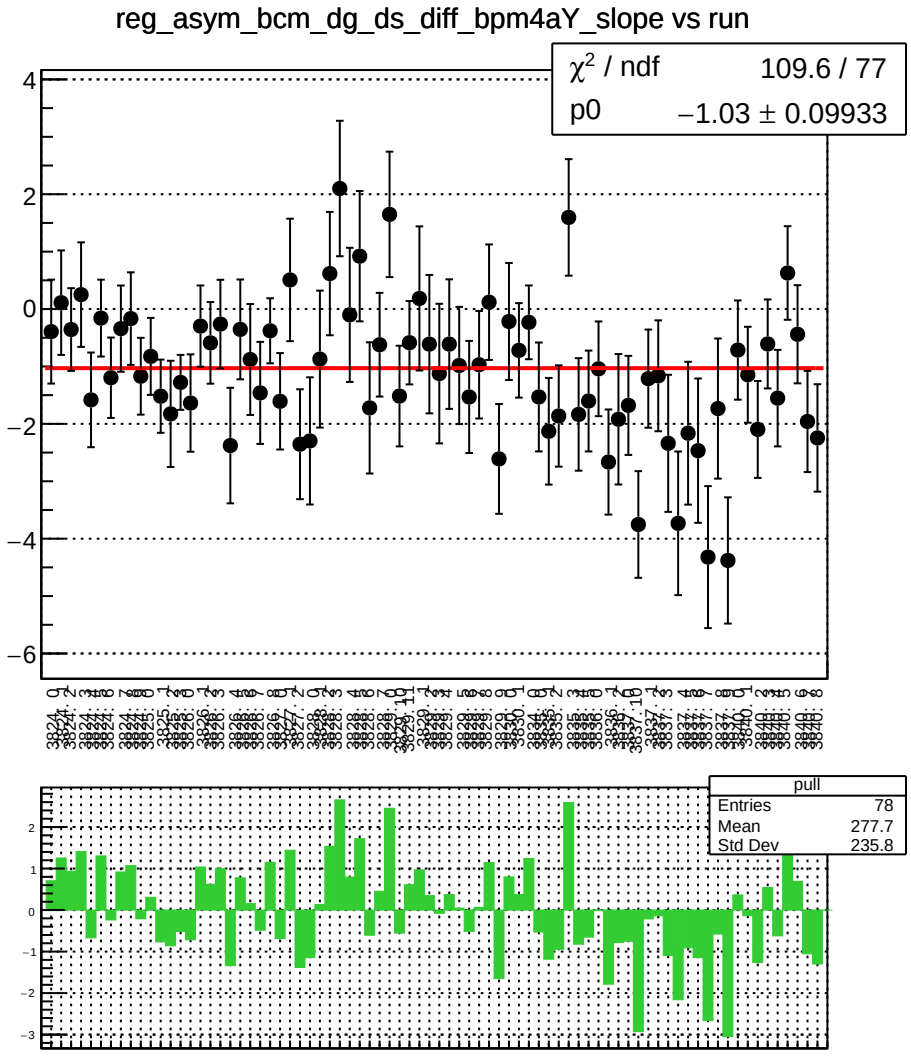

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 113.8 / 77
p0 1.7 ± 0.1521
pull
Entries 78
Mean −980.4
Std Dev 1020

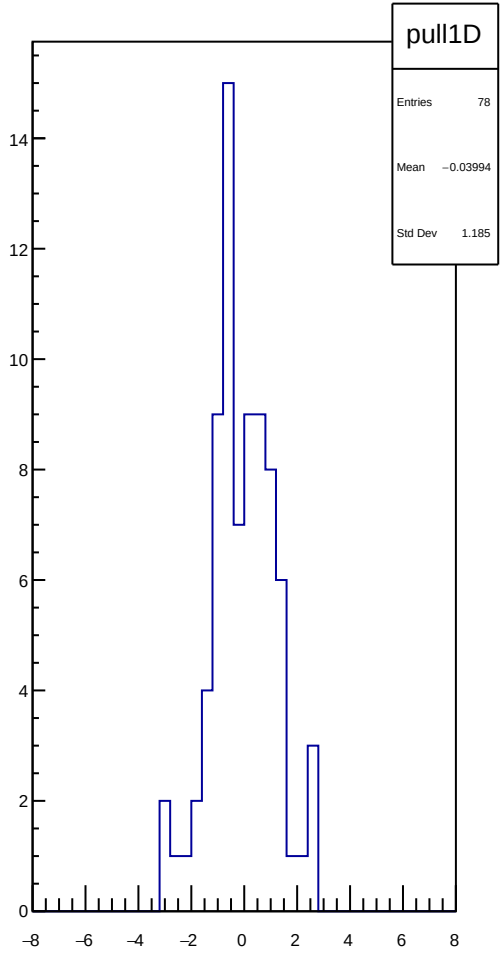

pull1D
Entries 78
Mean −0.008127
Std Dev 1.208

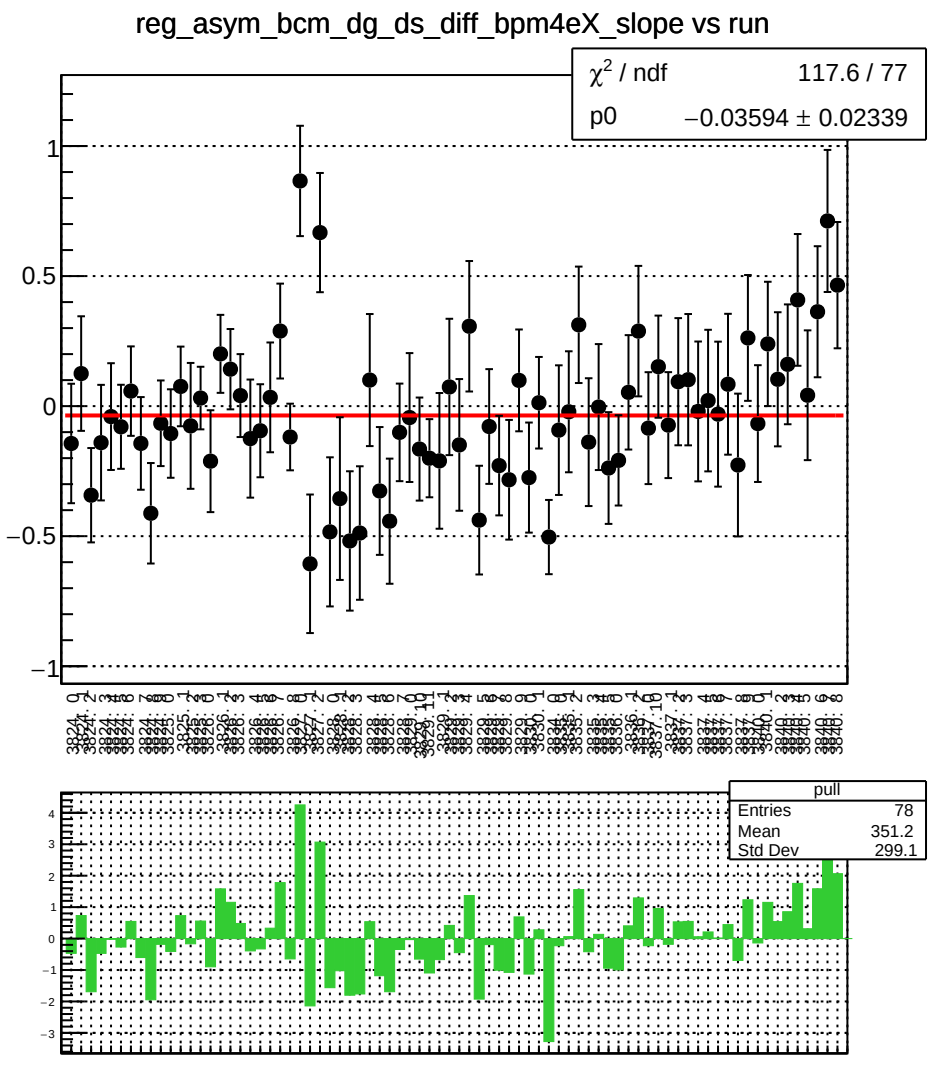

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 95.65 / 77
p0 −0.09251 ± 0.02768
pull
Entries 78
Mean 542.8
Std Dev 501.8

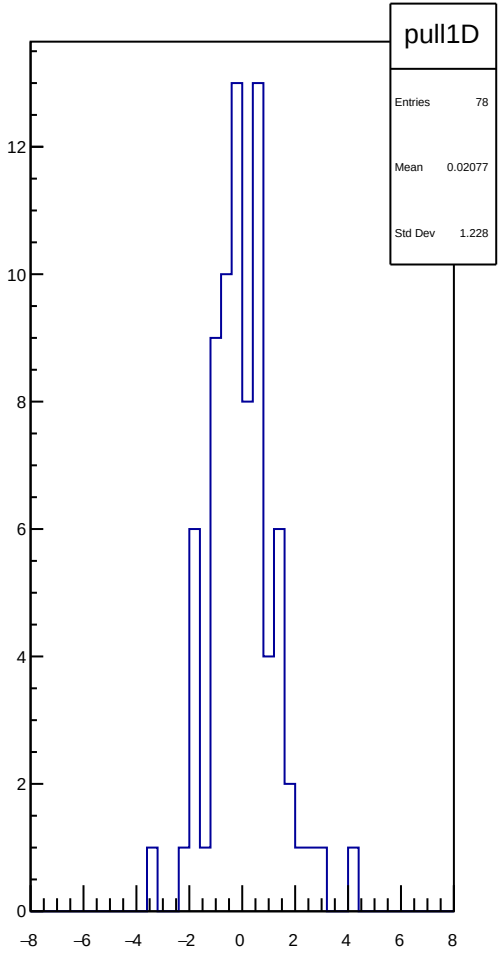

pull1D
Entries 78
Mean −0.02788
Std Dev 1.107

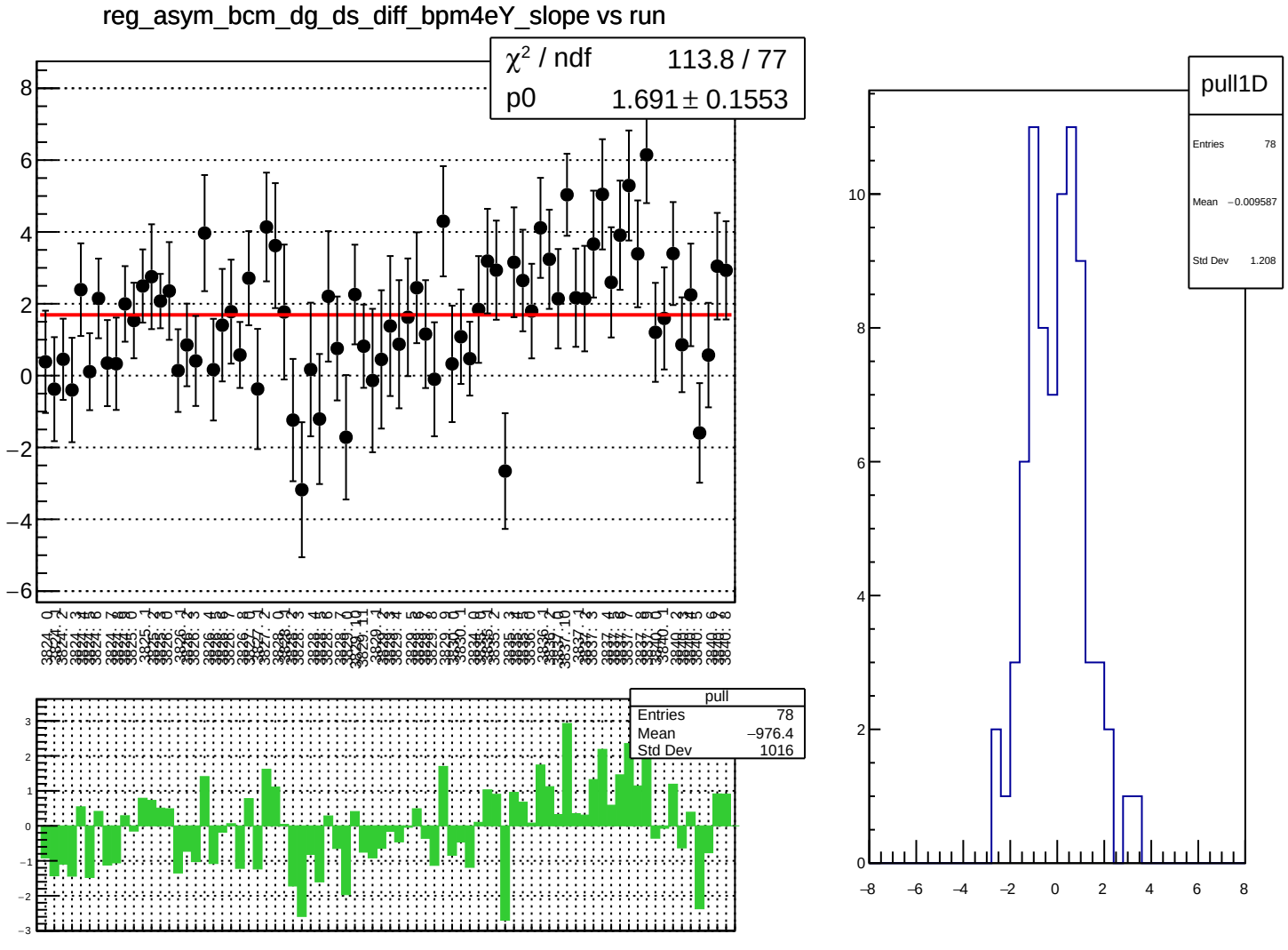

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 83.52 / 77
p0 0.3035 ± 0.1345
pull
Entries 78
Mean 361.2
Std Dev 302.5
pull1D
Entries 78
Mean −0.01078
Std Dev 1.035

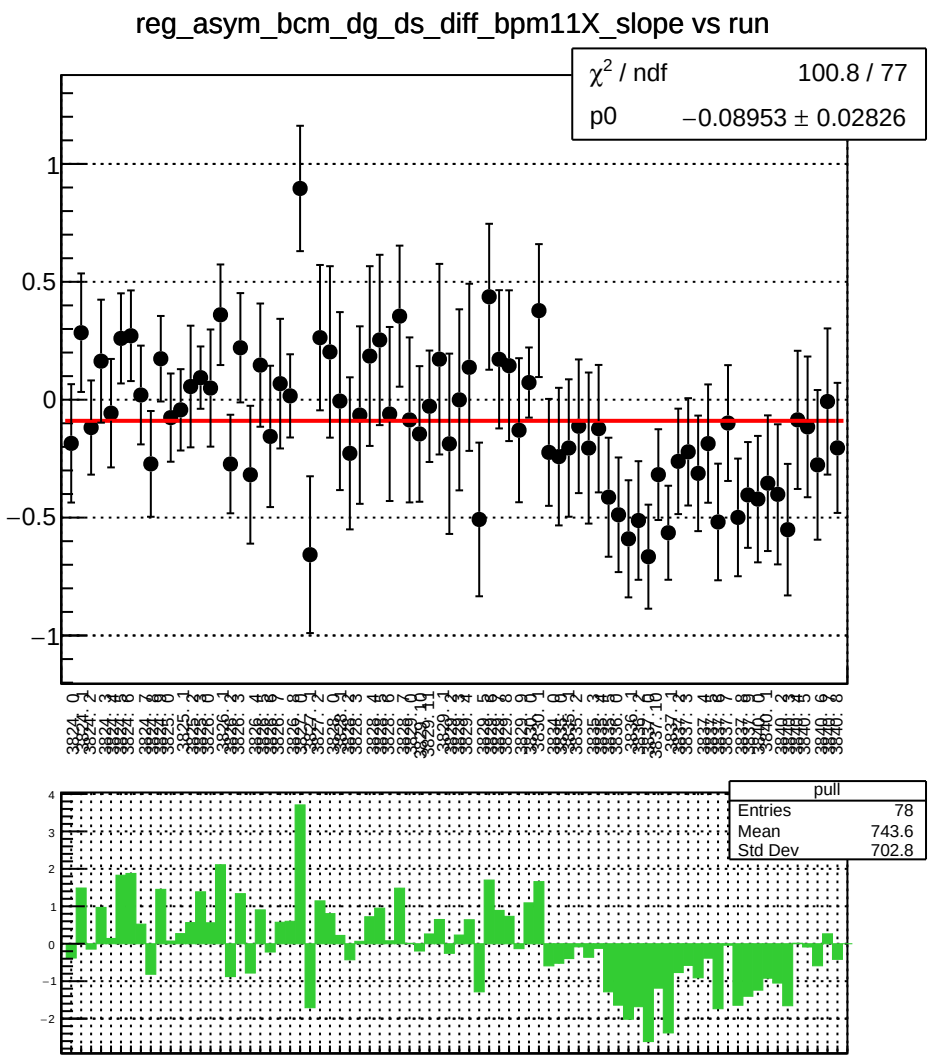

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 109.6 / 77
p0 −1.03 ± 0.09933
pull
Entries 78
Mean 277.7
Std Dev 235.8

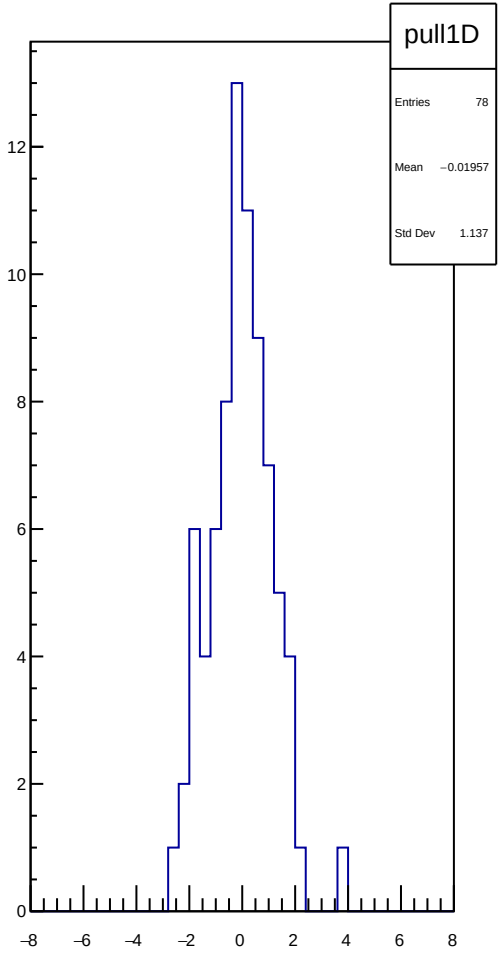

pull1D
Entries 78
Mean −0.03994
Std Dev 1.185

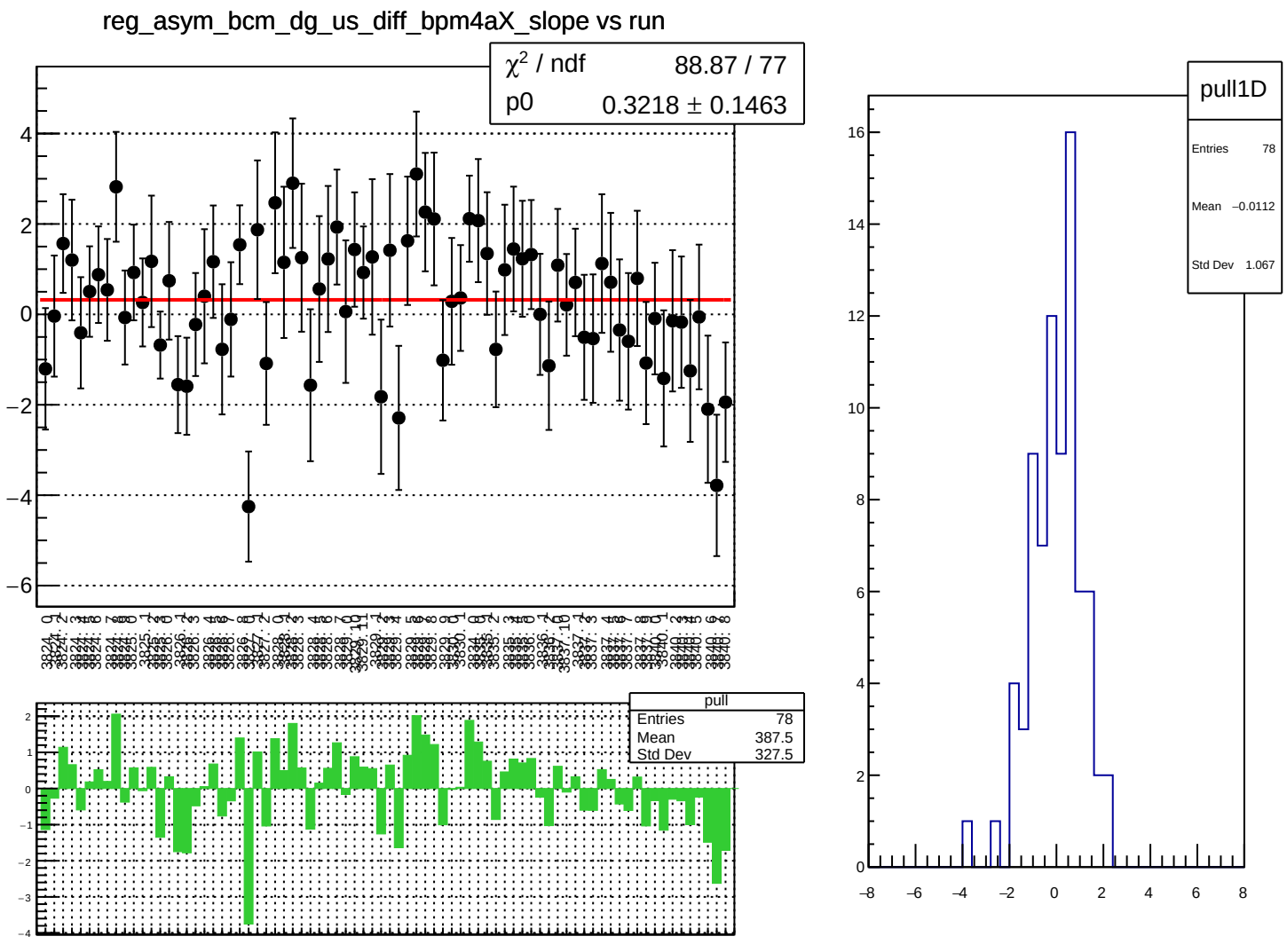

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 117.6 / 77
p0 −0.03594 ± 0.02339
pull
Entries 78
Mean 351.2
Std Dev 299.1

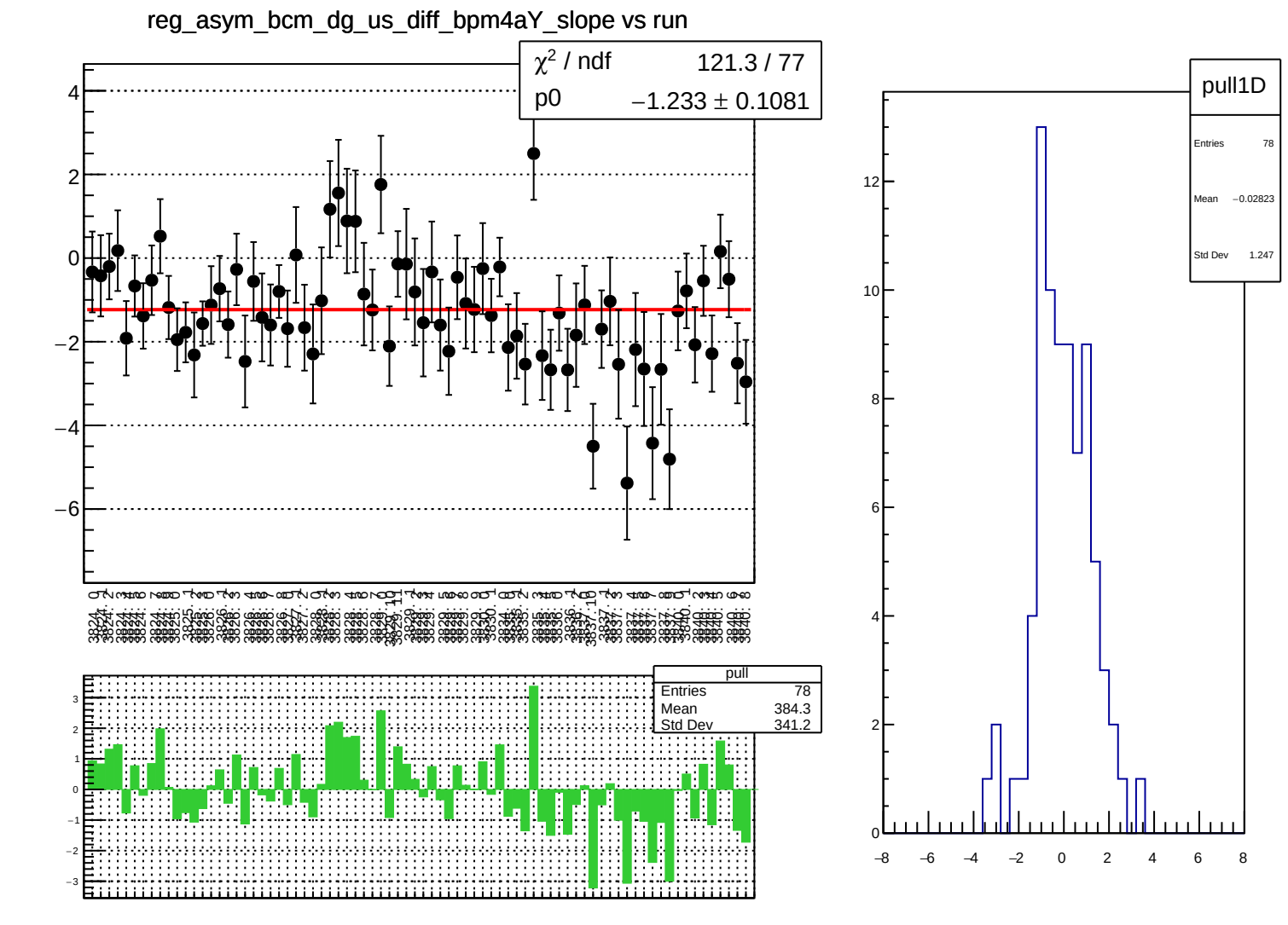

pull1D
Entries 78
Mean 0.02077
Std Dev 1.228

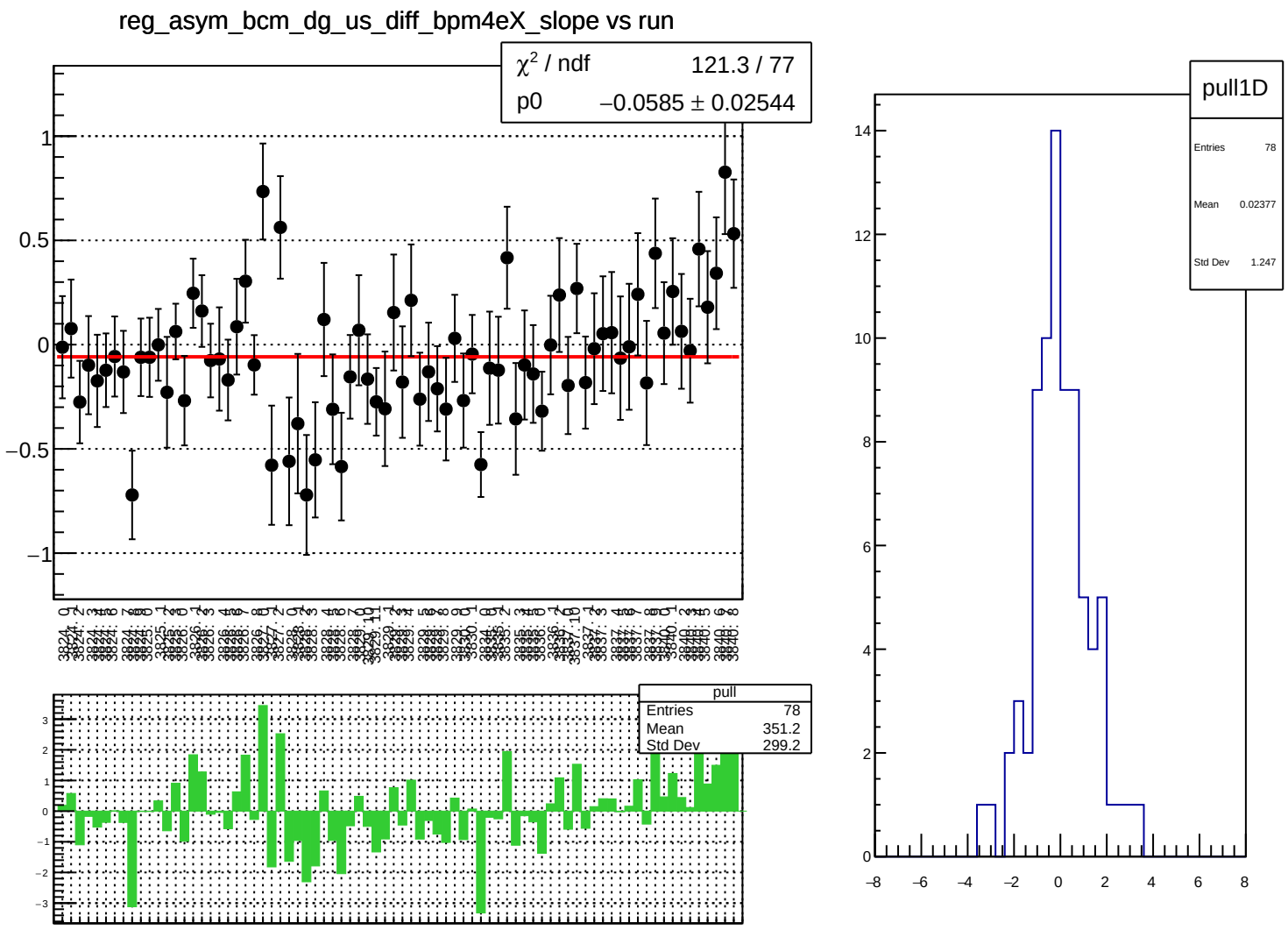

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 113.8 / 77
p0 1.691 ± 0.1553
pull
Entries 78
Mean −976.4
Std Dev 1016
pull1D
Entries 78
Mean −0.009587
Std Dev 1.208

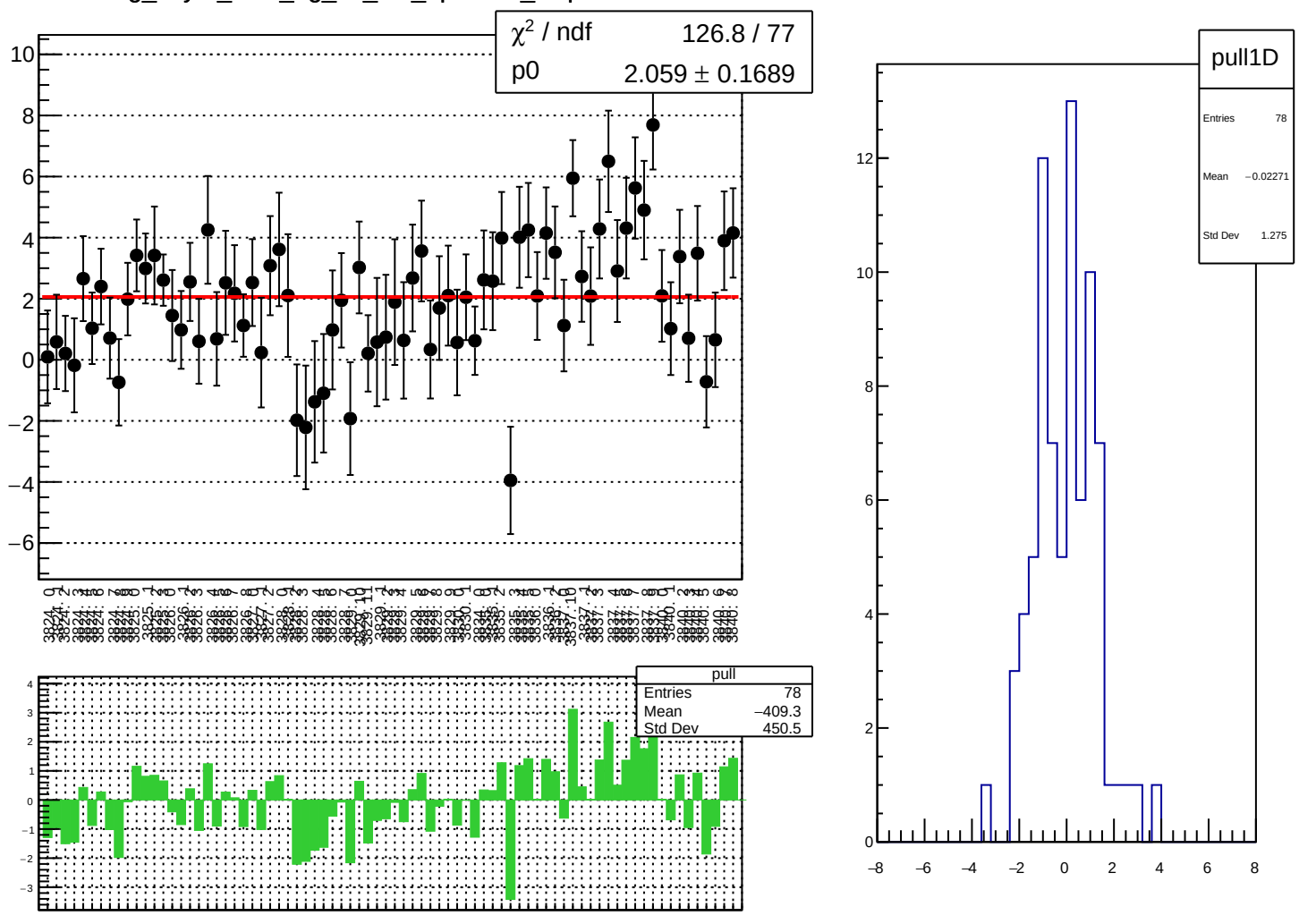

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 100.8 / 77
p0 −0.08953 ± 0.02826
pull
Entries 78
Mean 743.6
Std Dev 702.8

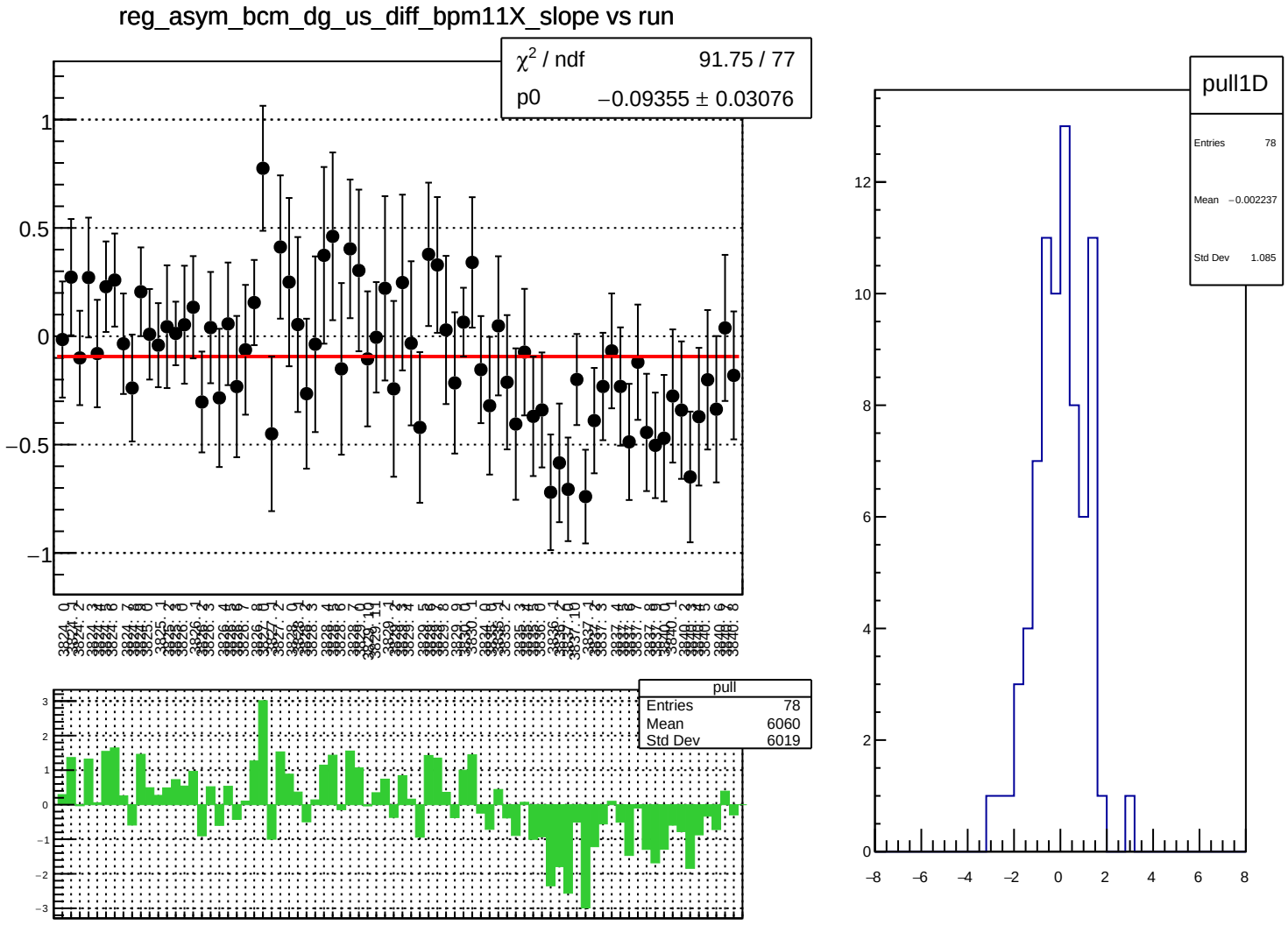

pull1D
Entries 78
Mean −0.01957
Std Dev 1.137

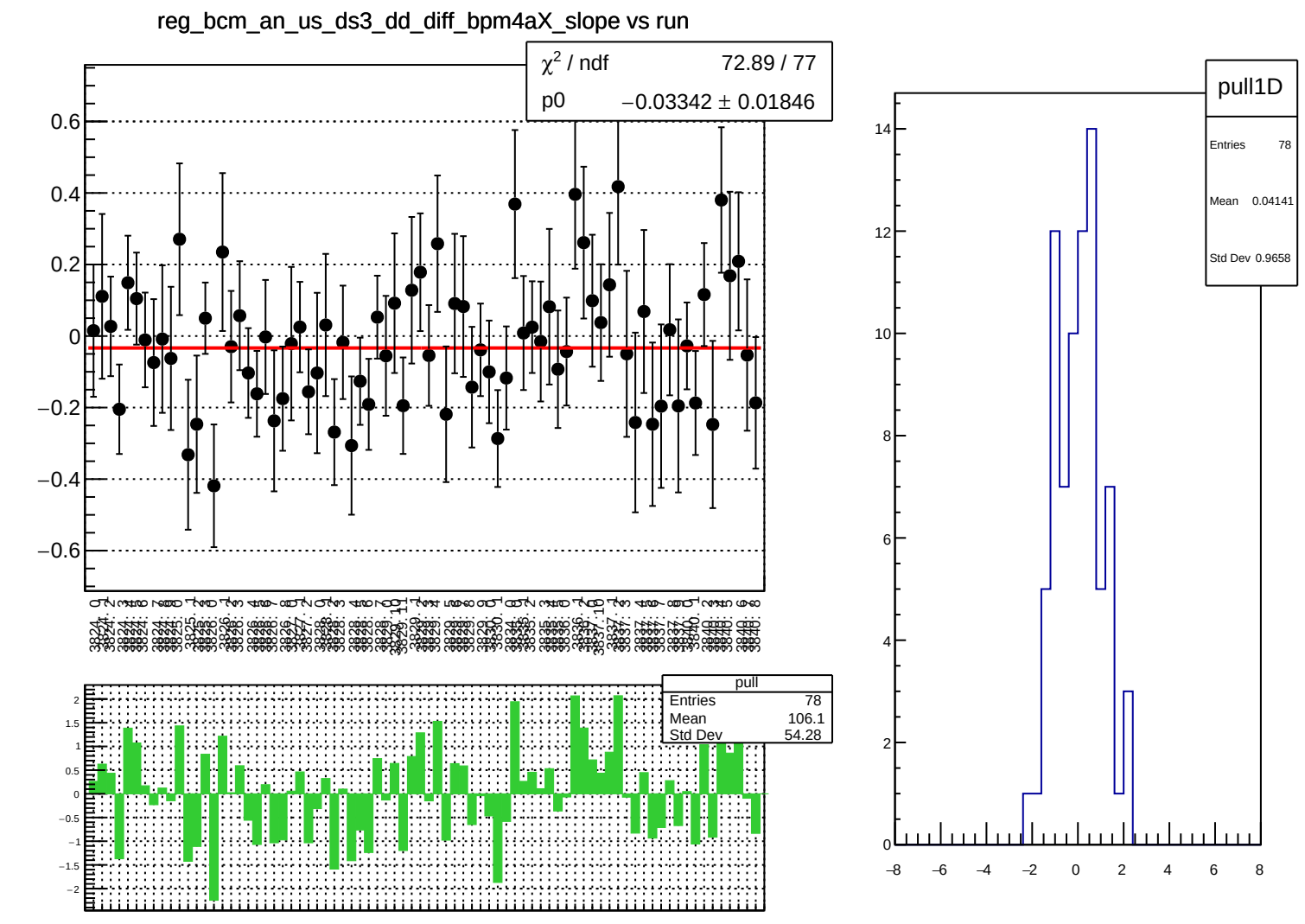

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 88.87 / 77
p0 0.3218 ± 0.1463
pull
Entries 78
Mean 387.5
Std Dev 327.5
pull1D
Entries 78
Mean −0.0112
Std Dev 1.067

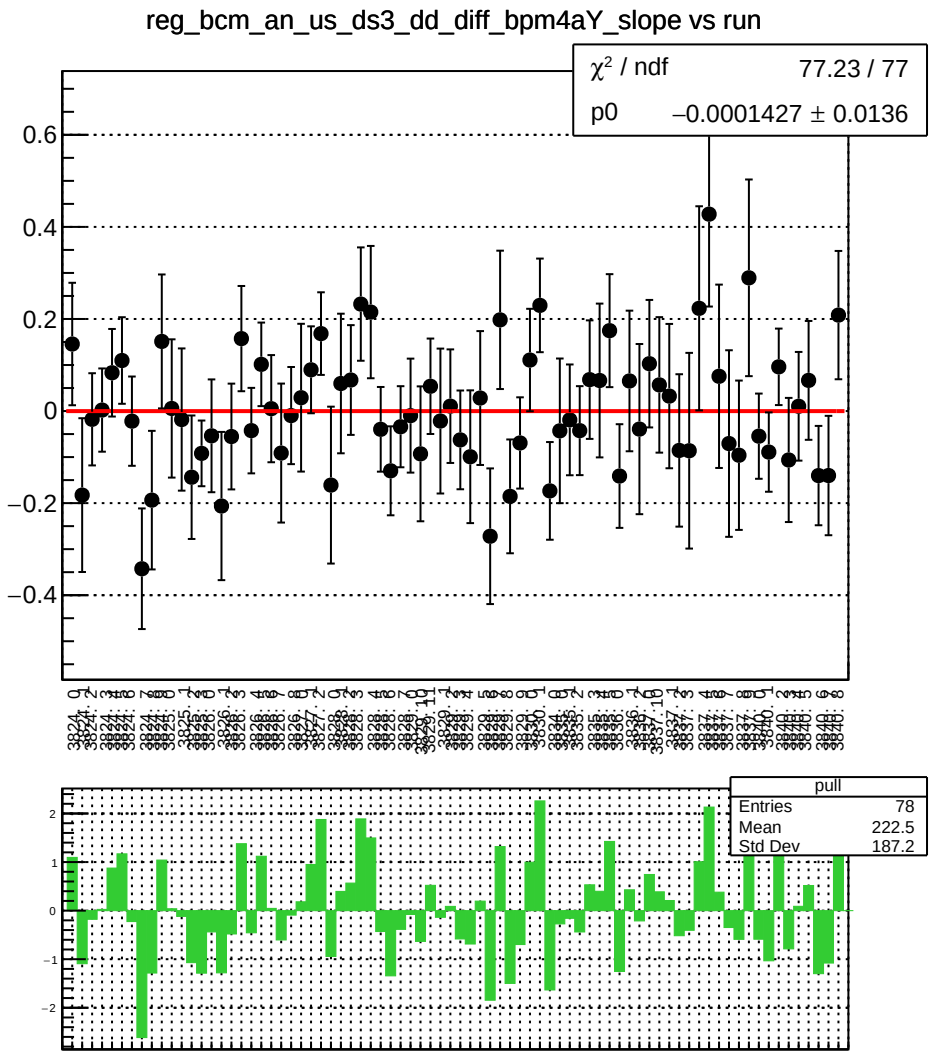

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 121.3 / 77
p0 −1.233 ± 0.1081
pull
Entries 78
Mean 384.3
Std Dev 341.2
pull1D
Entries 78
Mean −0.02823
Std Dev 1.247

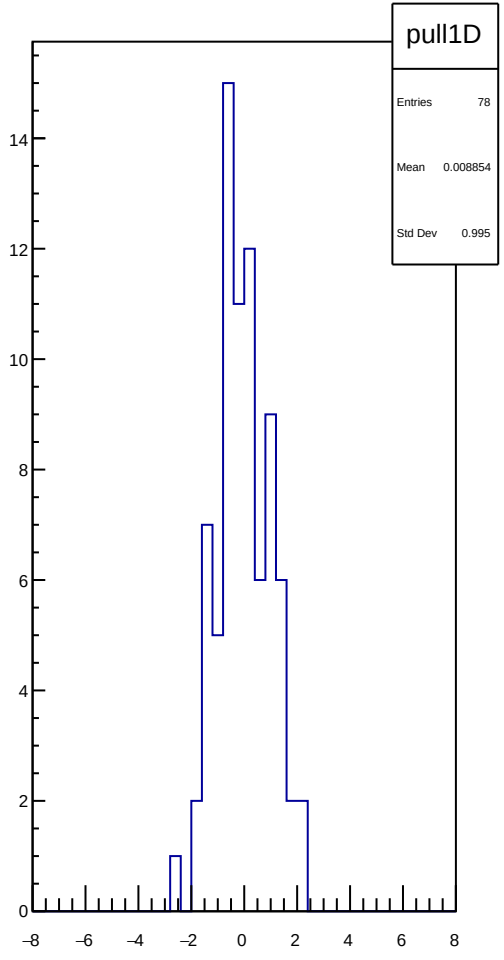

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 121.3 / 77
p0 −0.0585 ± 0.02544
pull
Entries 78
Mean 351.2
Std Dev 299.2
pull1D
Entries 78
Mean 0.02377
Std Dev 1.247

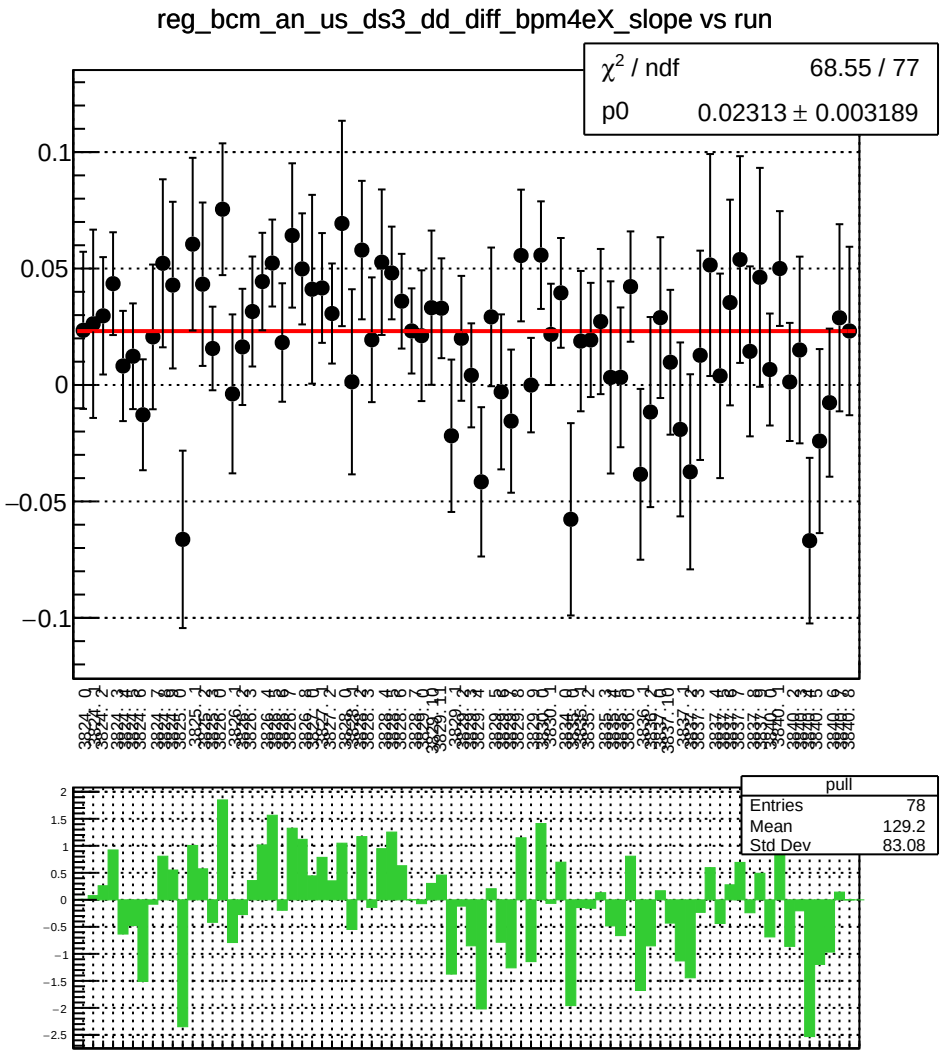

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 126.8 / 77
p0 2.059 ± 0.1689
pull
Entries 78
Mean −409.3
Std Dev 450.5
pull1D
Entries 78
Mean −0.02271
Std Dev 1.275

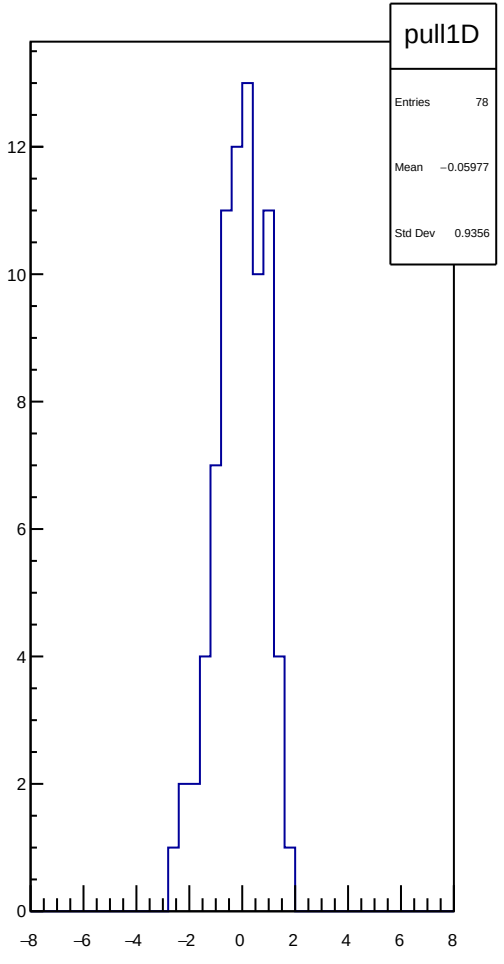

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 91.75 / 77
p0 −0.09355 ± 0.03076
pull
Entries 78
Mean 6060
Std Dev 6019
pull1D
Entries 78
Mean −0.002237
Std Dev 1.085

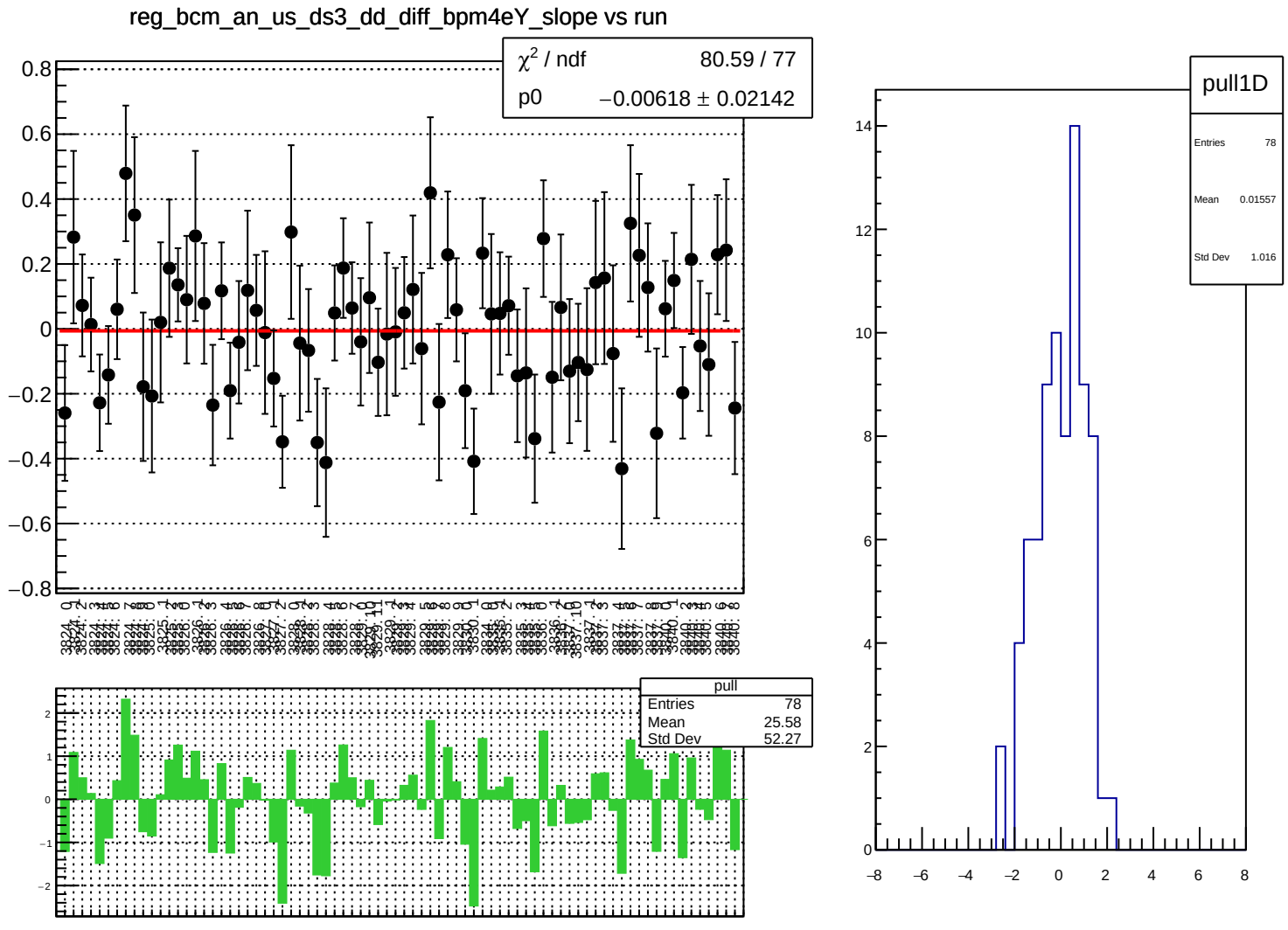

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 72.89 / 77
p0 −0.03342 ± 0.01846
pull
Entries 78
Mean 106.1
Std Dev 54.28
pull1D
Entries 78
Mean 0.04141
Std Dev 0.9658

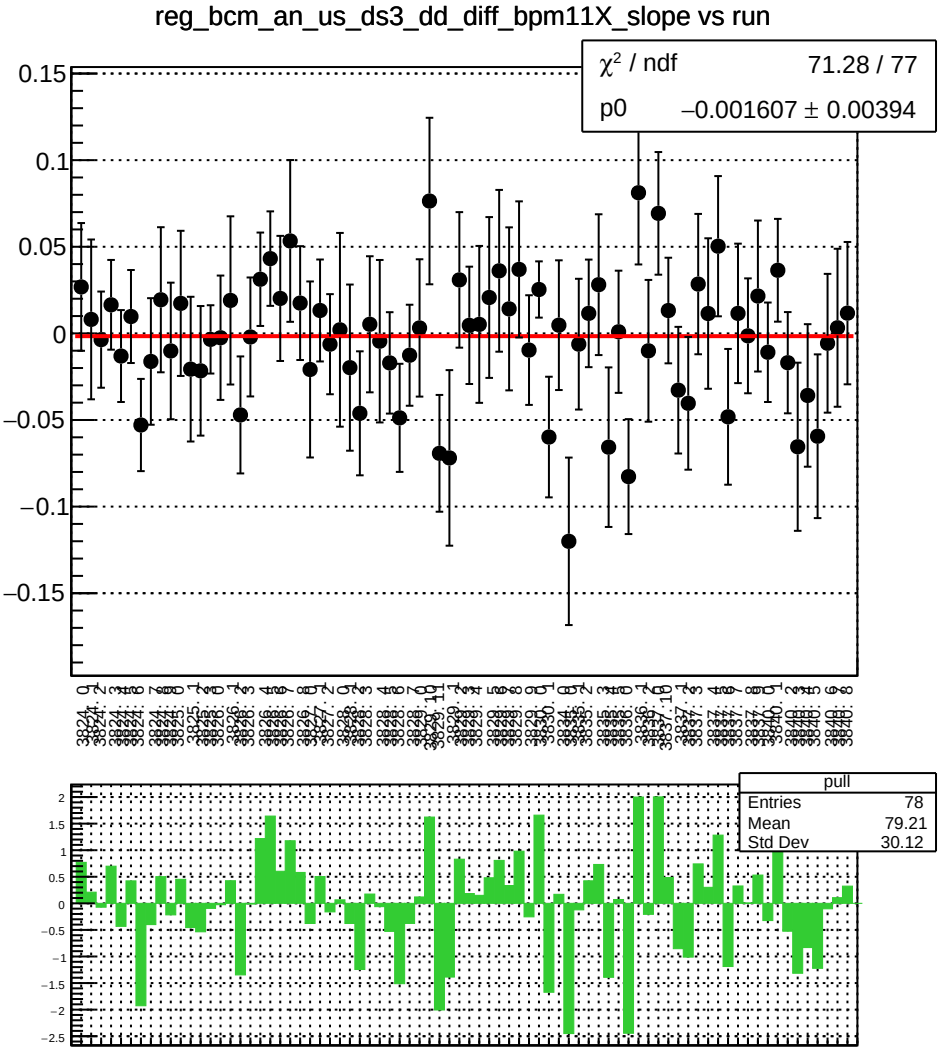

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.23 / 77
p0 −0.0001427 ± 0.0136
pull
Entries 78
Mean 222.5
Std Dev 187.2

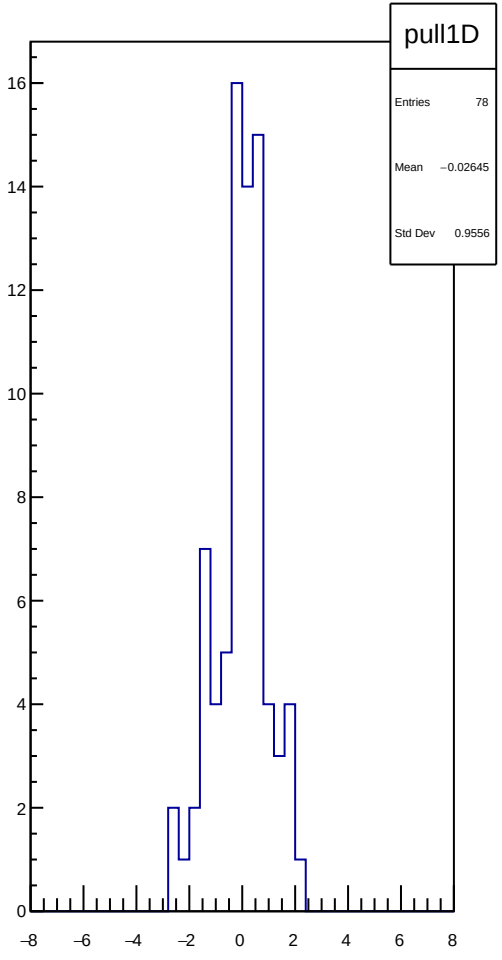

pull1D
Entries 78
Mean 0.008854
Std Dev 0.995

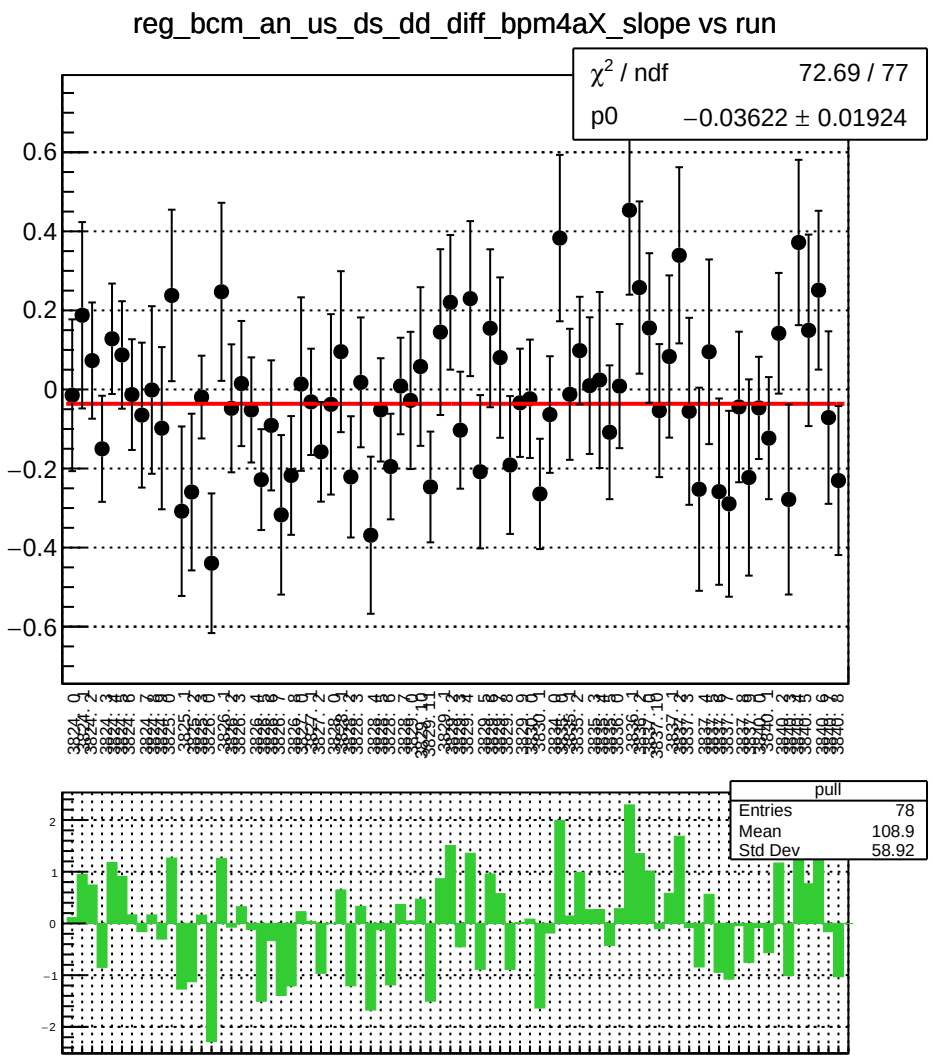

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.55 / 77
p0 0.02313 ± 0.003189
pull
Entries 78
Mean 129.2
Std Dev 83.08

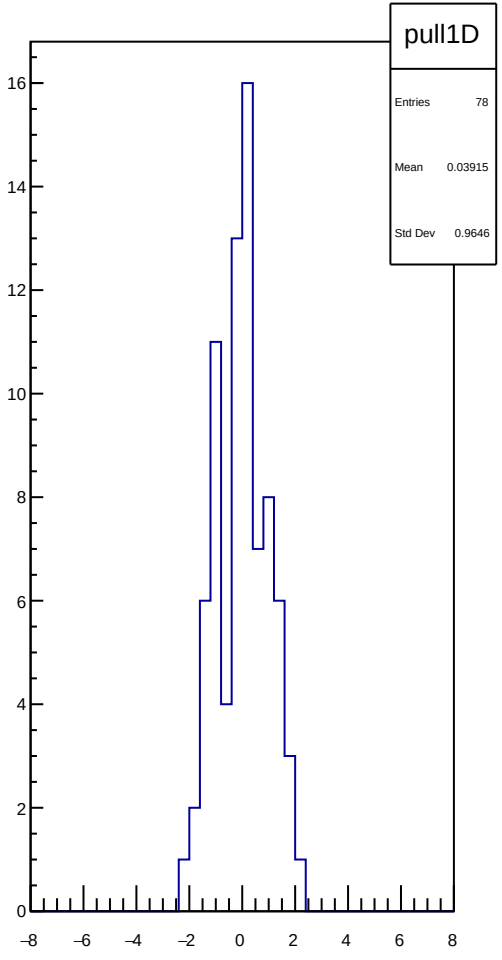

pull1D
Entries 78
Mean −0.05977
Std Dev 0.9356

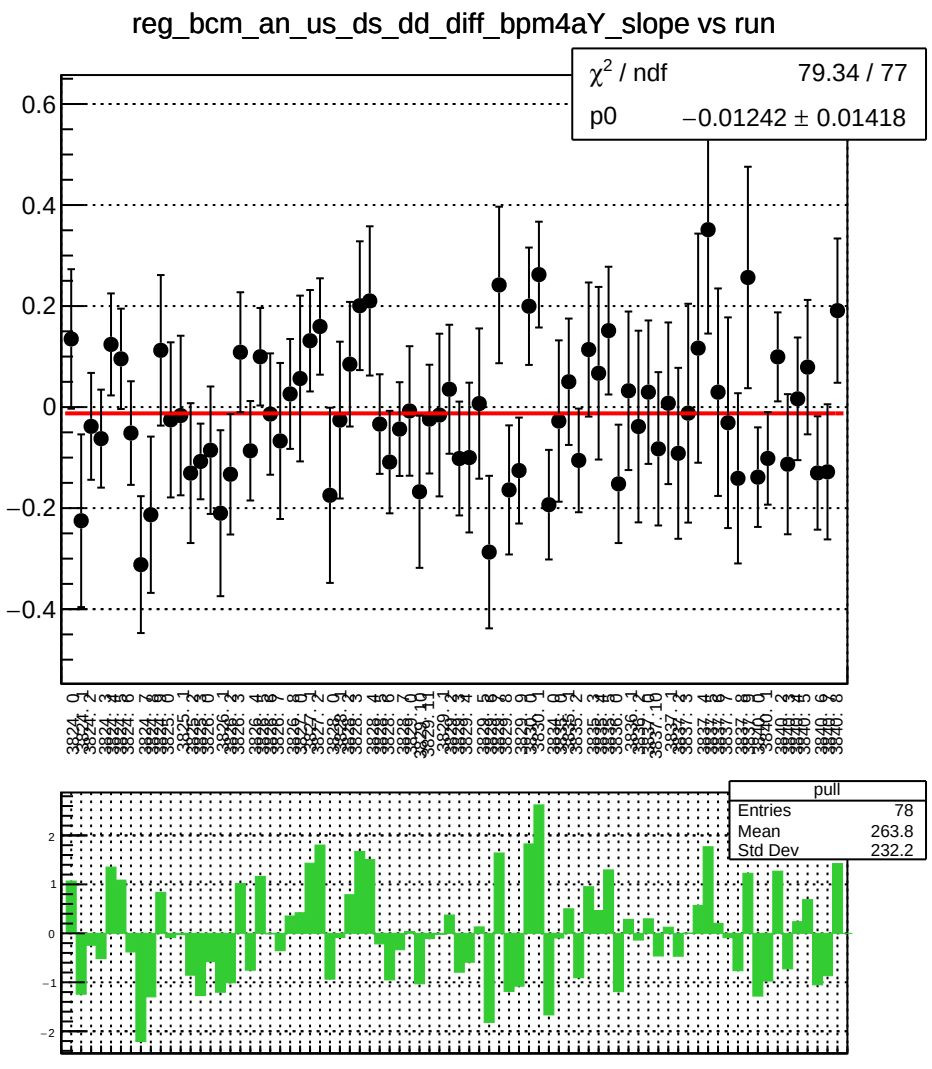

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.59 / 77
p0 −0.00618 ± 0.02142
pull
Entries 78
Mean 25.58
Std Dev 52.27
pull1D
Entries 78
Mean 0.01557
Std Dev 1.016

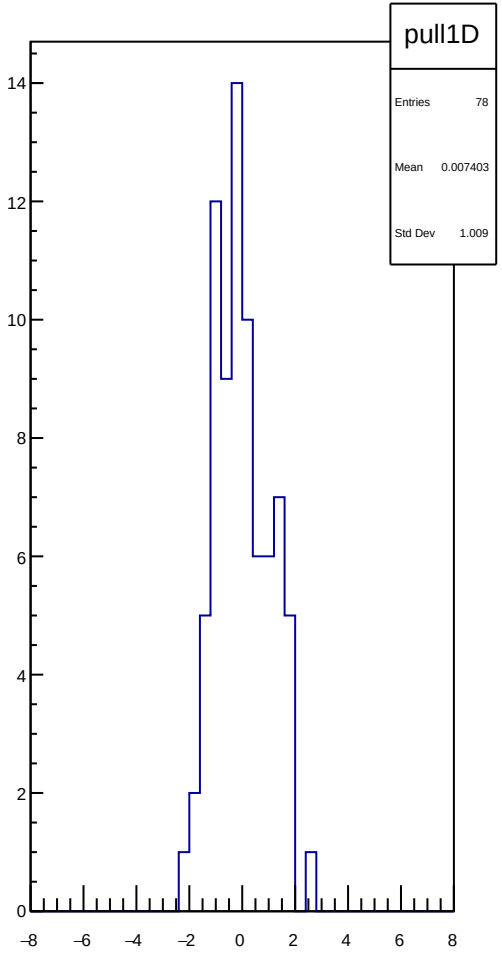

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 71.28 / 77
p0 −0.001607 ± 0.00394
pull
Entries 78
Mean 79.21
Std Dev 30.12

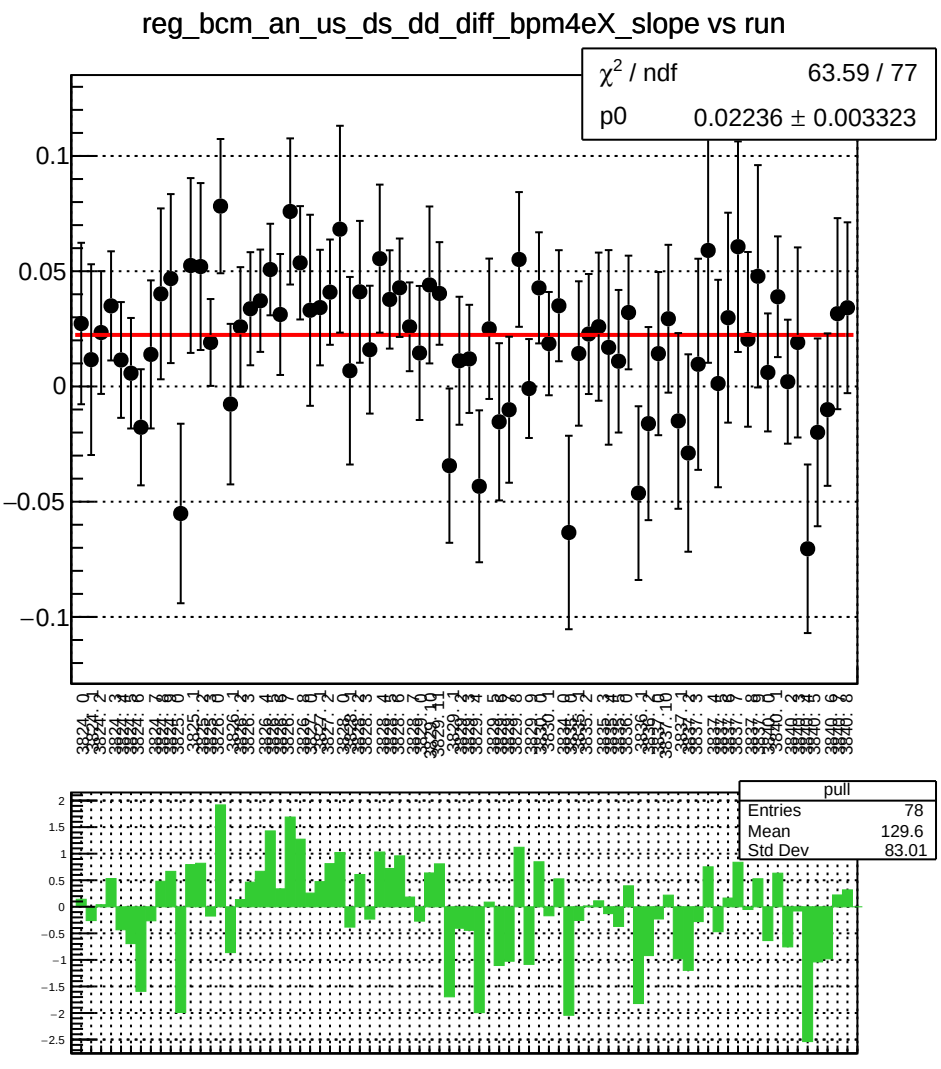

pull1D
Entries 78
Mean −0.02645
Std Dev 0.9556

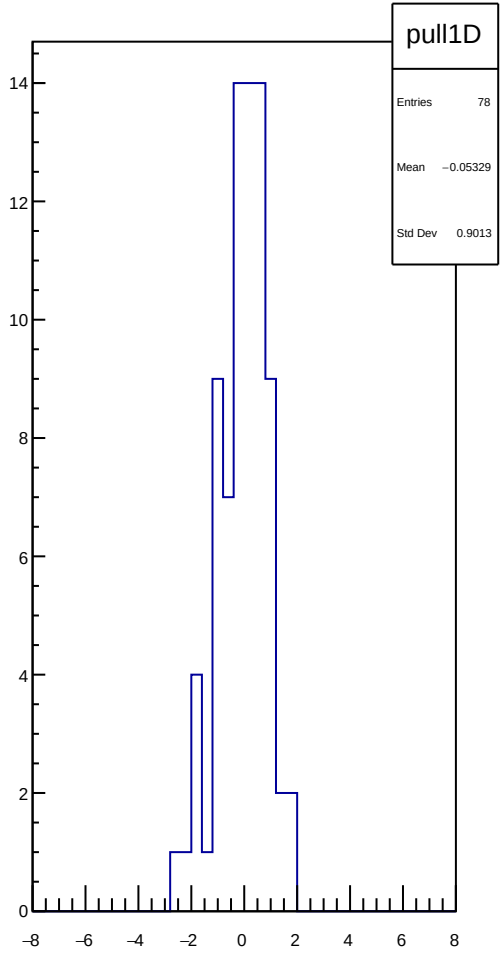

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 72.69 / 77
p0 −0.03622 ± 0.01924
pull
Entries 78
Mean 108.9
Std Dev 58.92

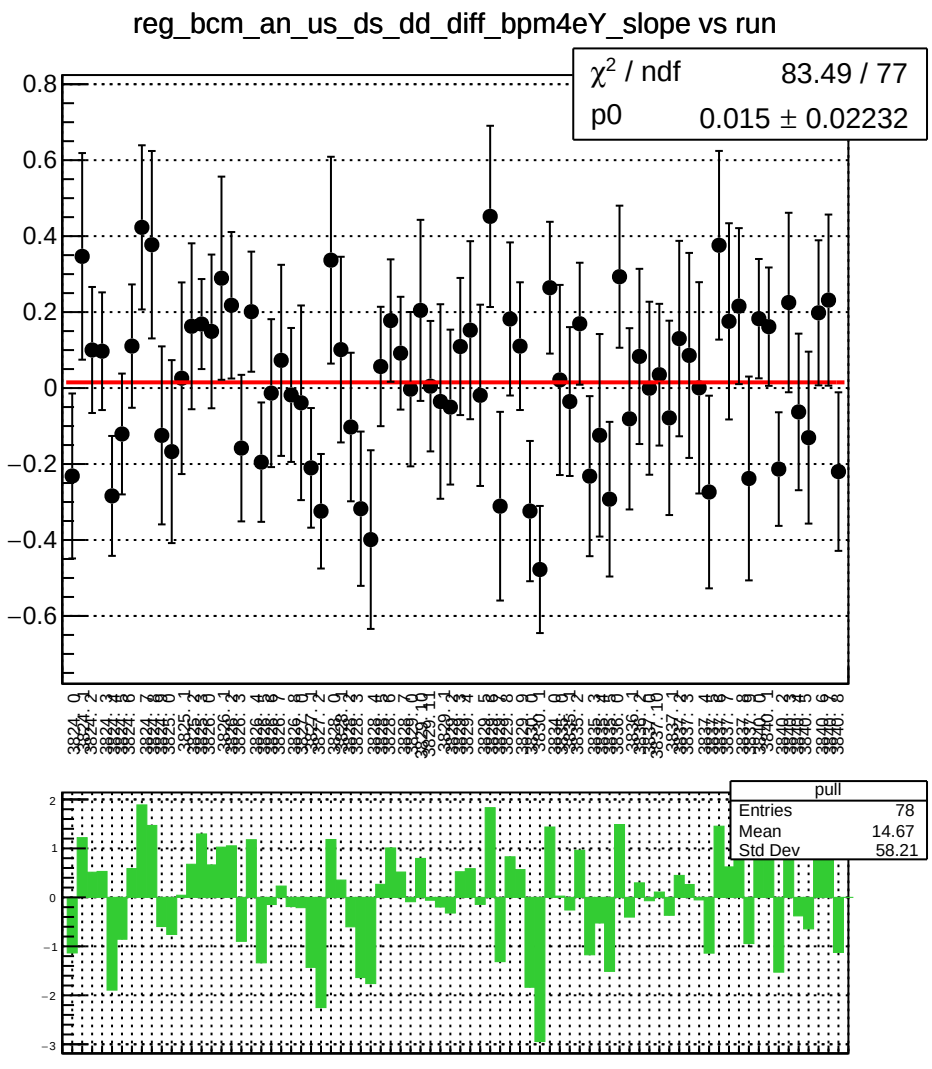

pull1D
Entries 78
Mean 0.03915
Std Dev 0.9646

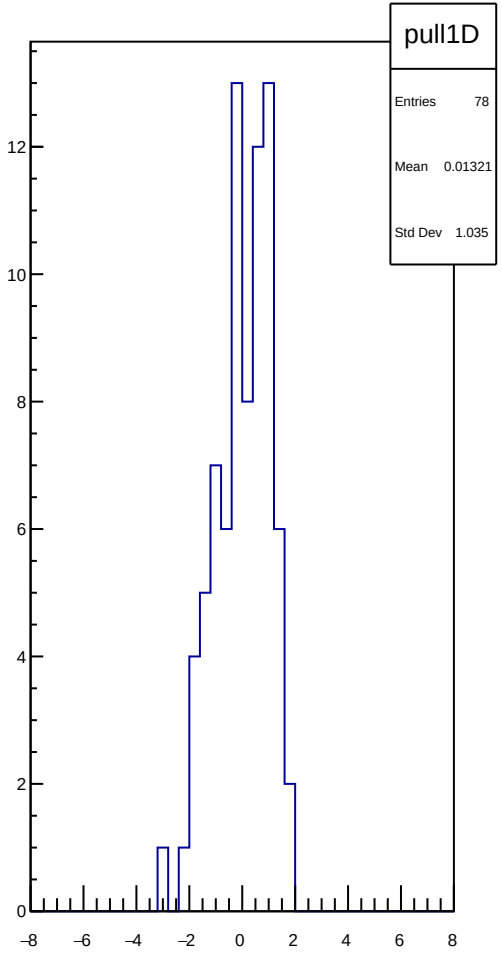

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.34 / 77
p0 −0.01242 ± 0.01418
pull
Entries 78
Mean 263.8
Std Dev 232.2

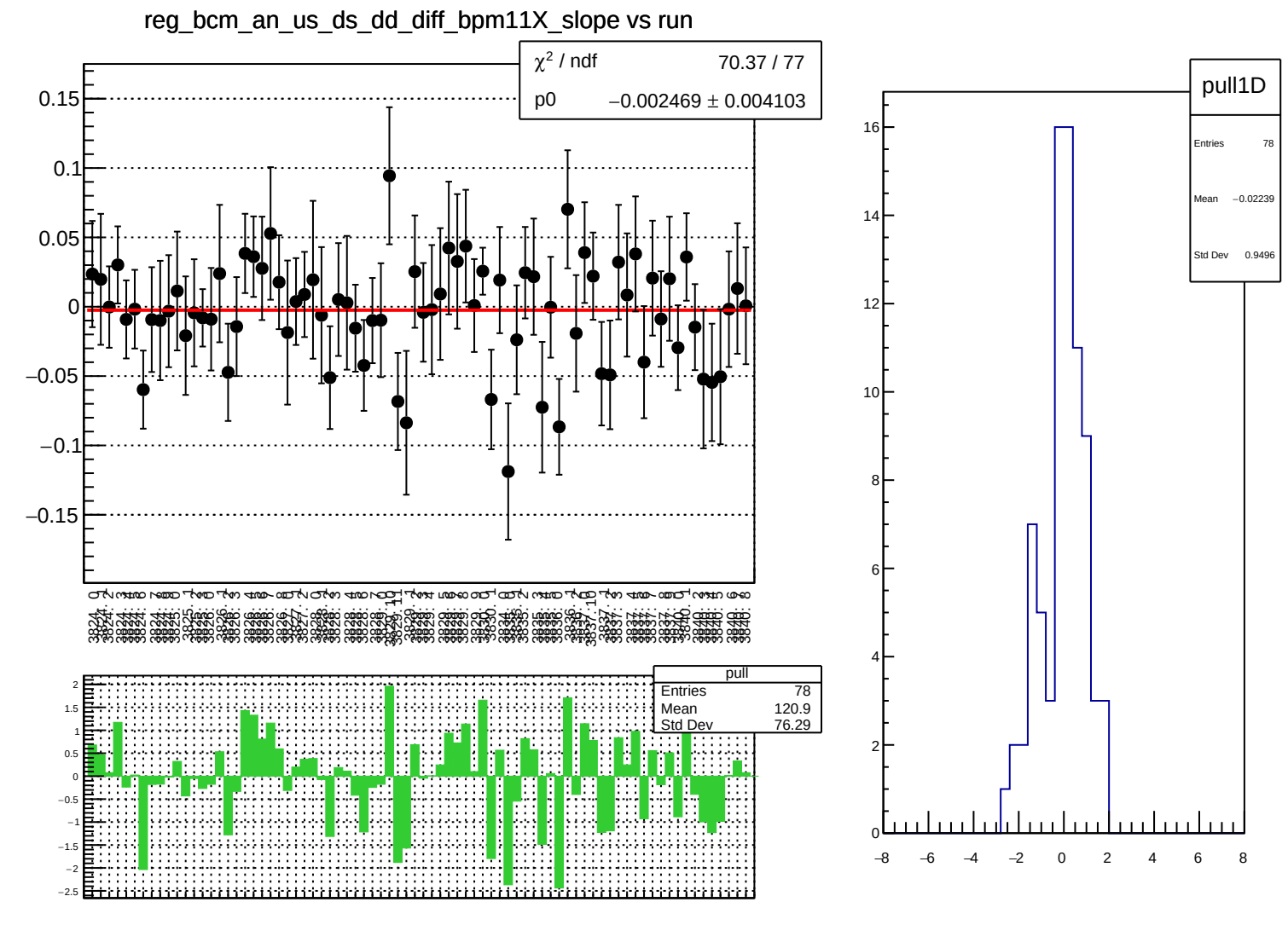

pull1D
Entries 78
Mean 0.007403
Std Dev 1.009

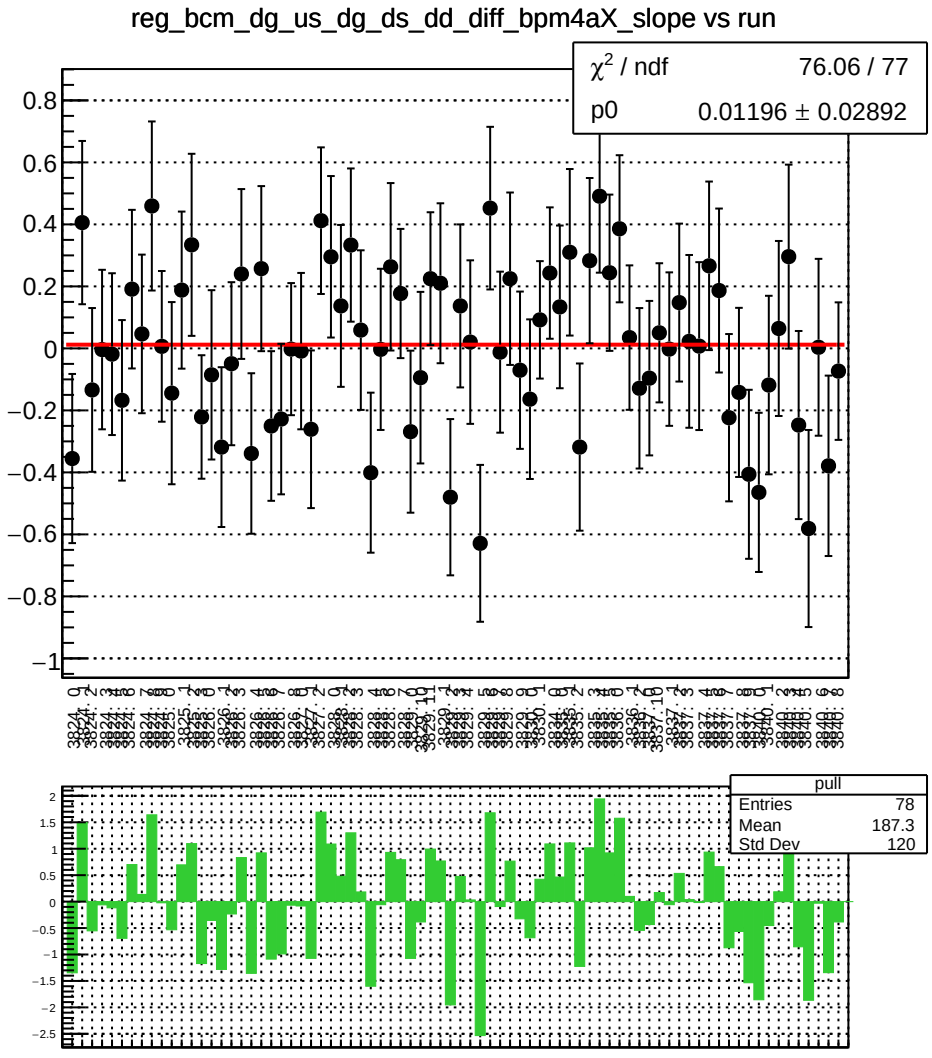

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.59 / 77
p0 0.02236 ± 0.003323
0.1
0.05
0
−0.05
−0.1
pull
Entries 78
Mean 129.6
Std Dev 83.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

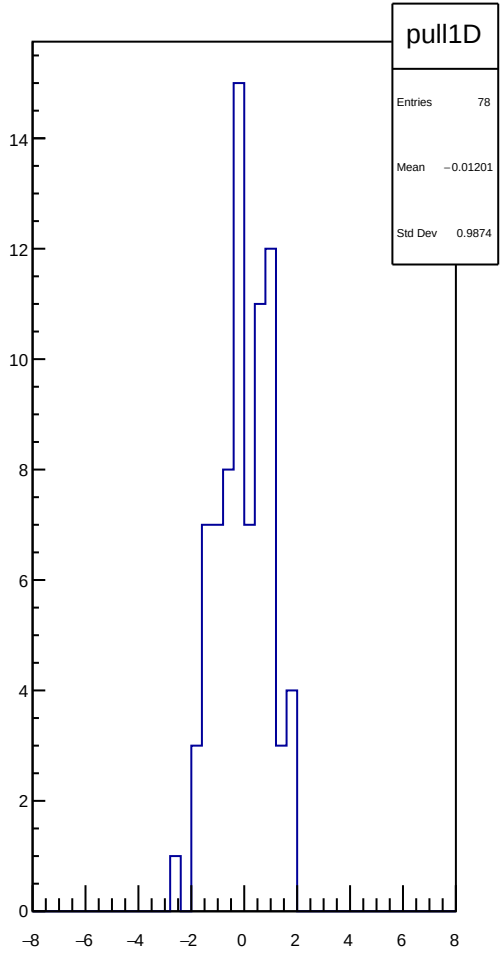

pull1D
Entries 78
Mean −0.05329
Std Dev 0.9013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

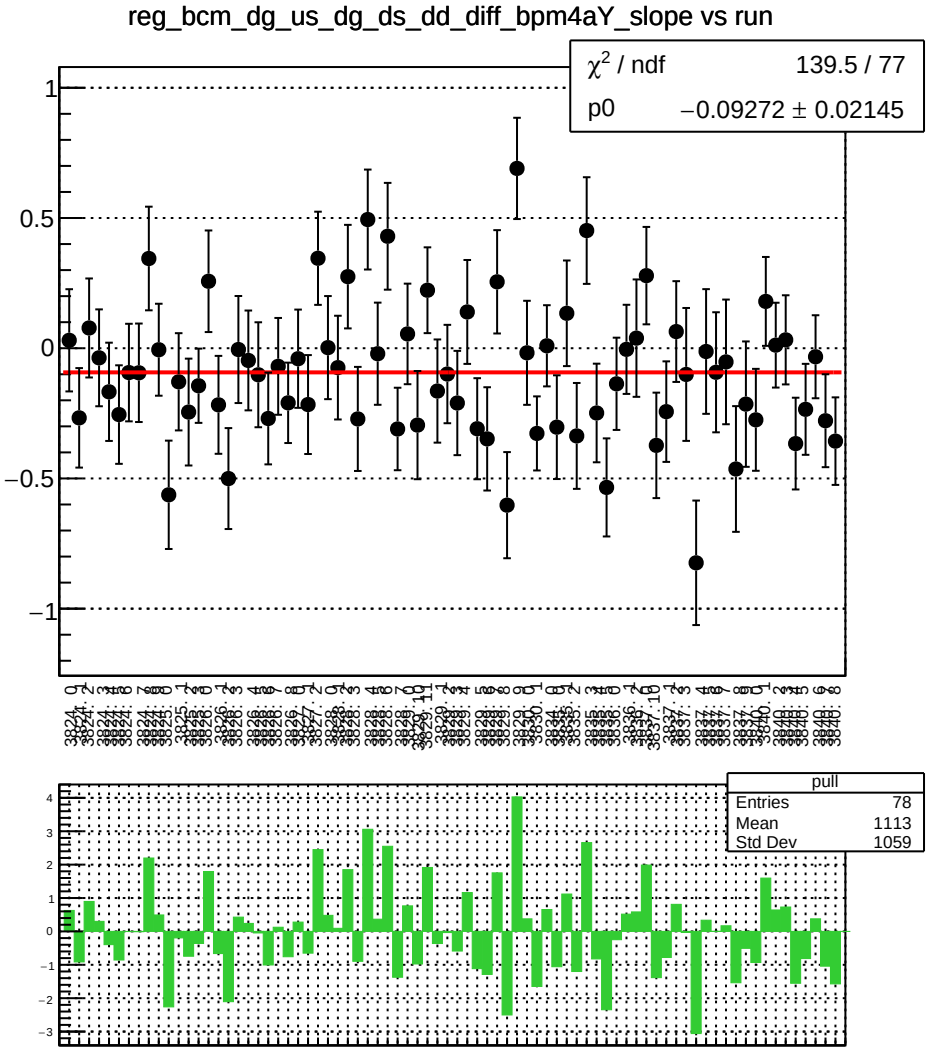

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.49 / 77
p0 0.015 ± 0.02232
pull
Entries 78
Mean 14.67
Std Dev 58.21

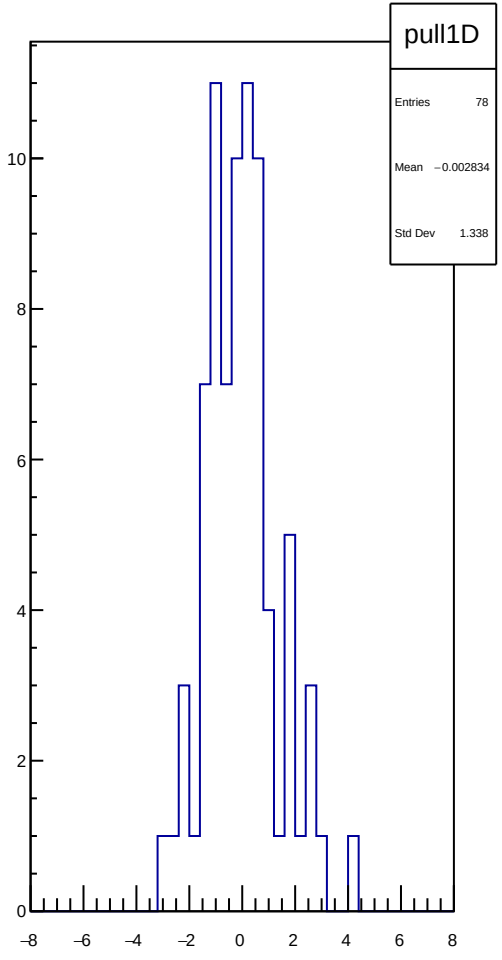

pull1D
Entries 78
Mean 0.01321
Std Dev 1.035

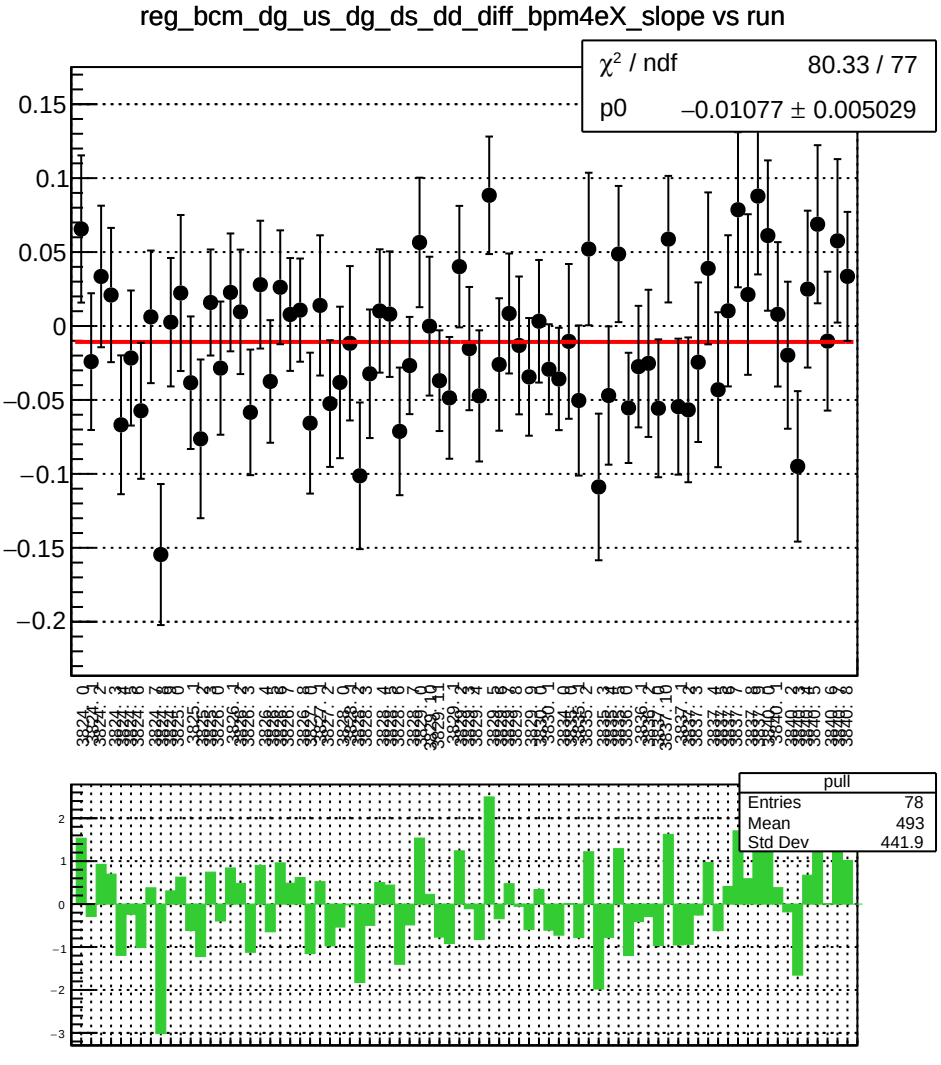

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 70.37 / 77
p0 −0.002469 ± 0.004103
pull
Entries 78
Mean 120.9
Std Dev 76.29
pull1D
Entries 78
Mean −0.02239
Std Dev 0.9496

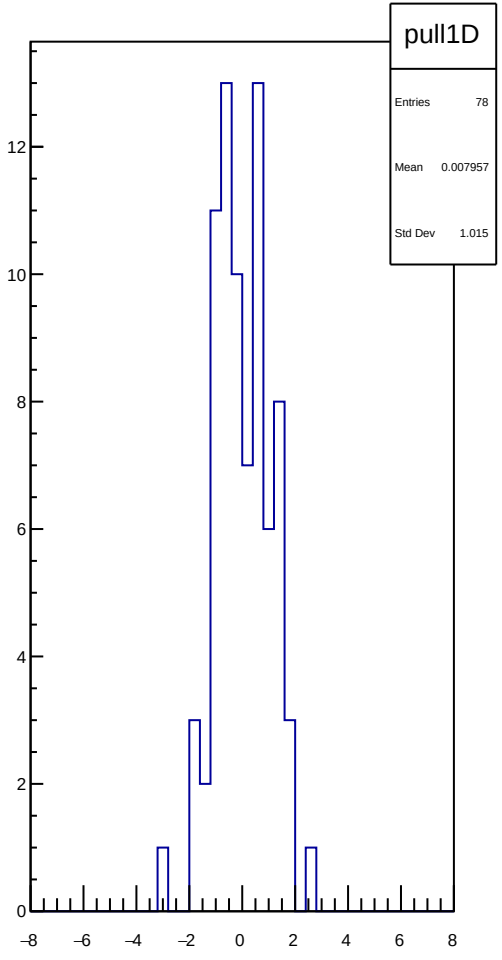

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 76.06 / 77
p0 0.01196 ± 0.02892
pull
Entries 78
Mean 187.3
Std Dev 120

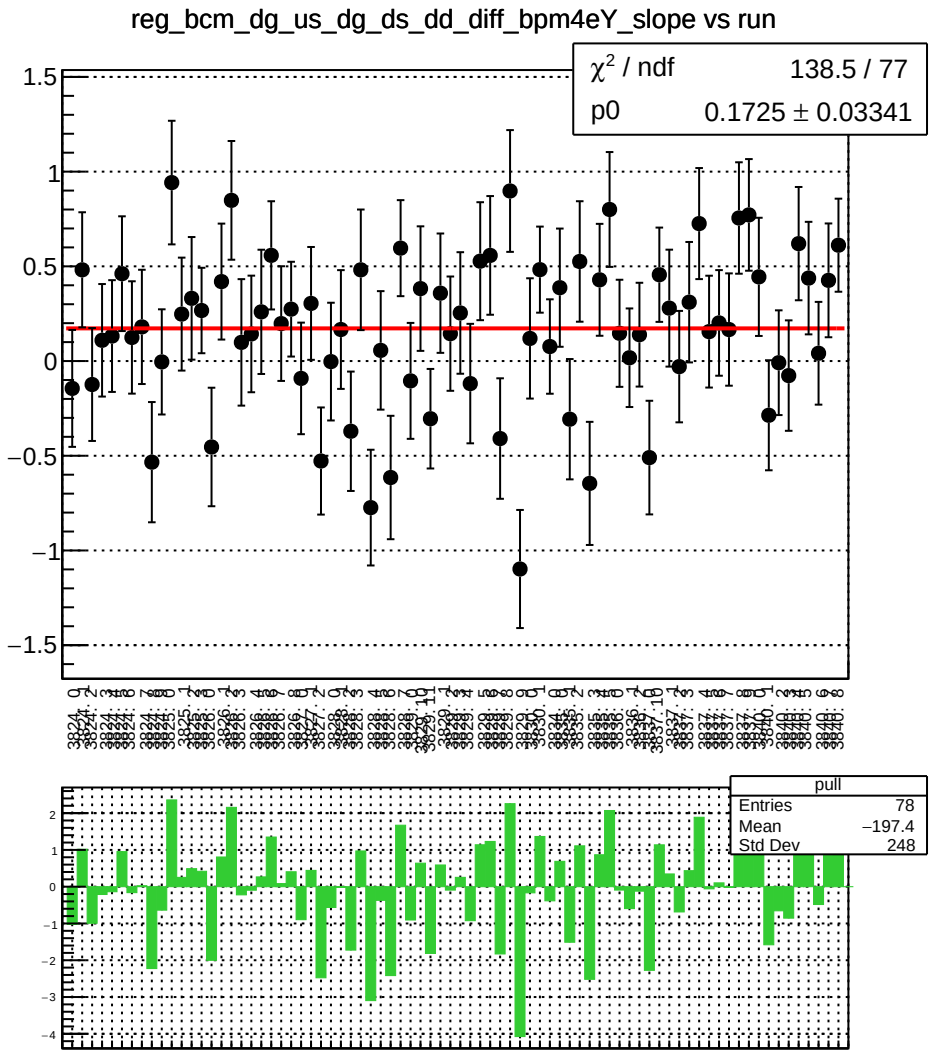

pull1D
Entries 78
Mean −0.01201
Std Dev 0.9874

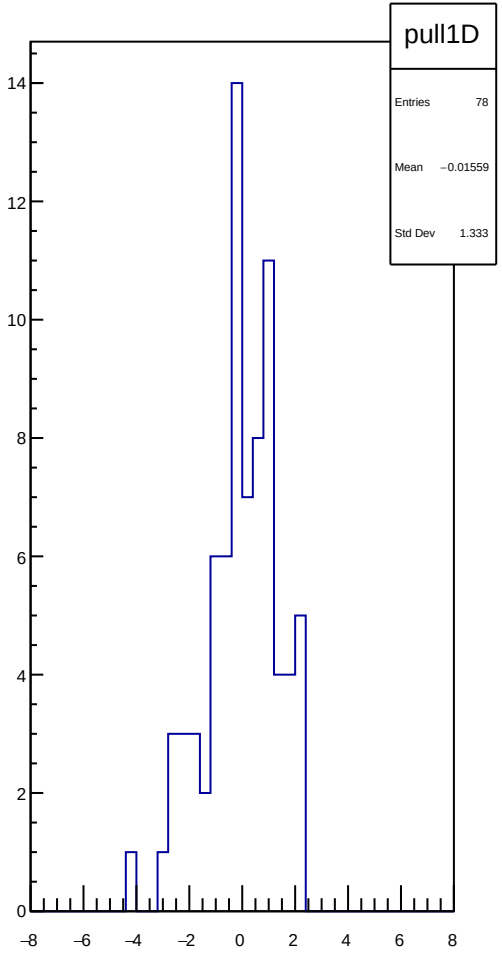

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 139.5 / 77
p0 −0.09272 ± 0.02145
pull
Entries 78
Mean 1113
Std Dev 1059

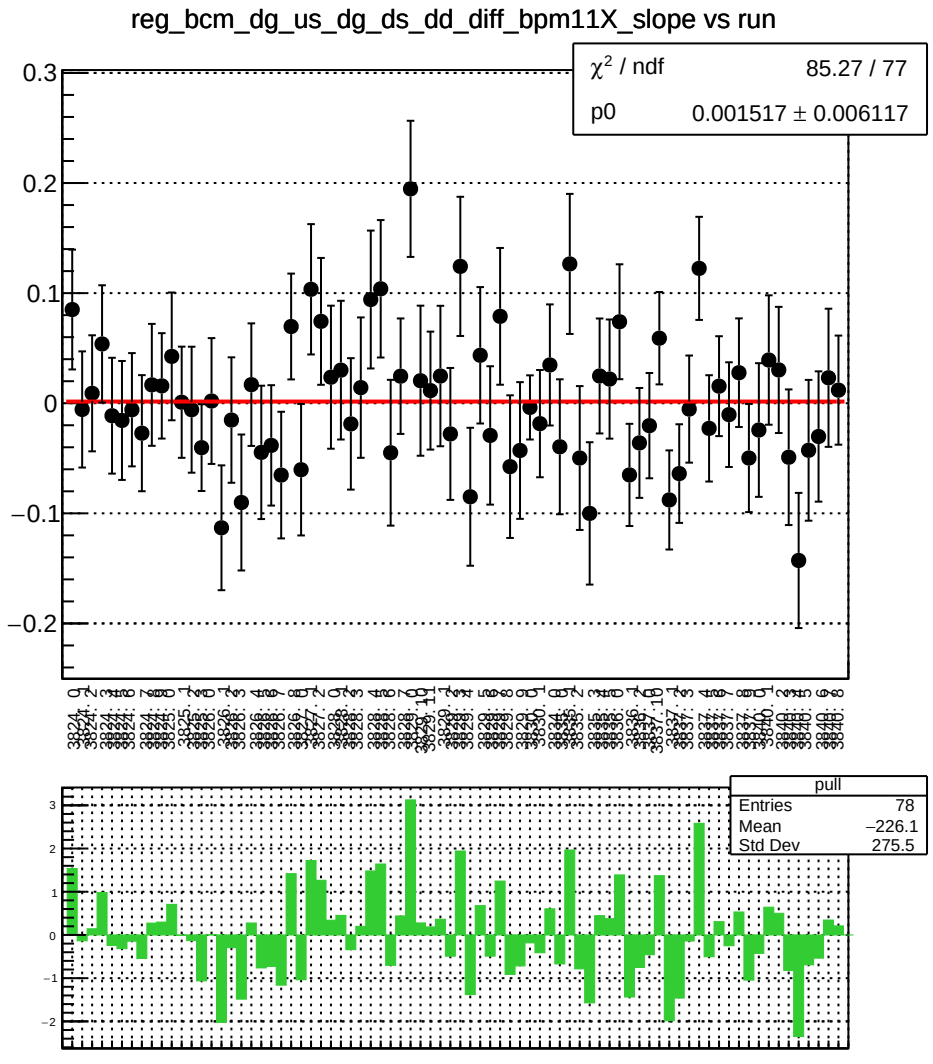

pull1D
Entries 78
Mean −0.002834
Std Dev 1.338

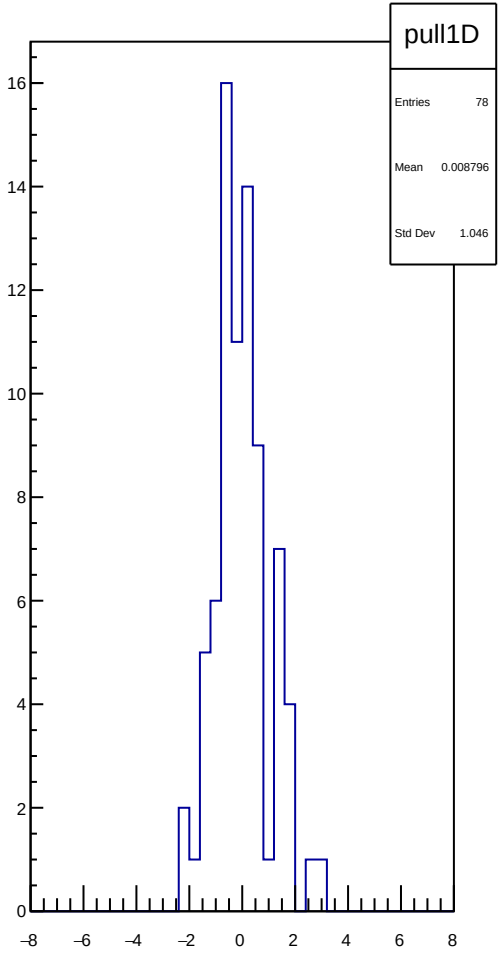

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.33 / 77
p0 −0.01077 ± 0.005029
pull
Entries 78
Mean 493
Std Dev 441.9

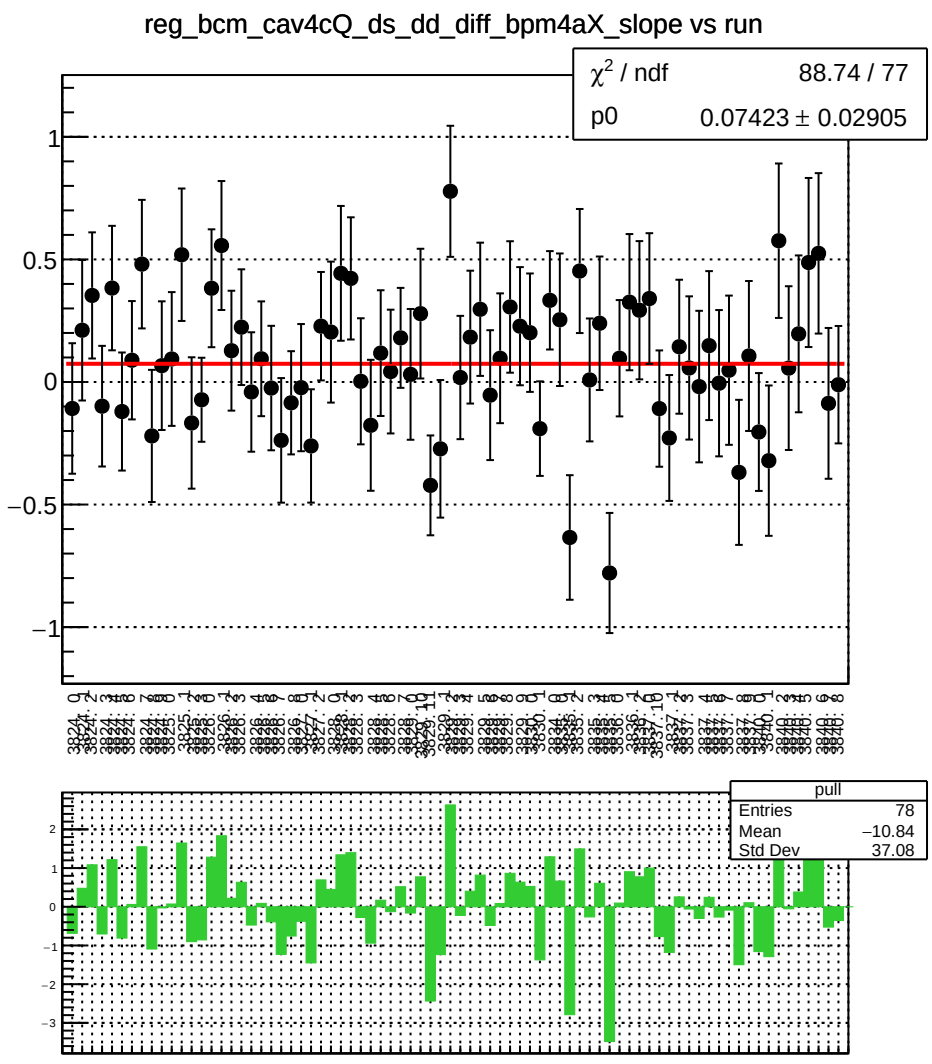

pull1D
Entries 78
Mean 0.007957
Std Dev 1.015

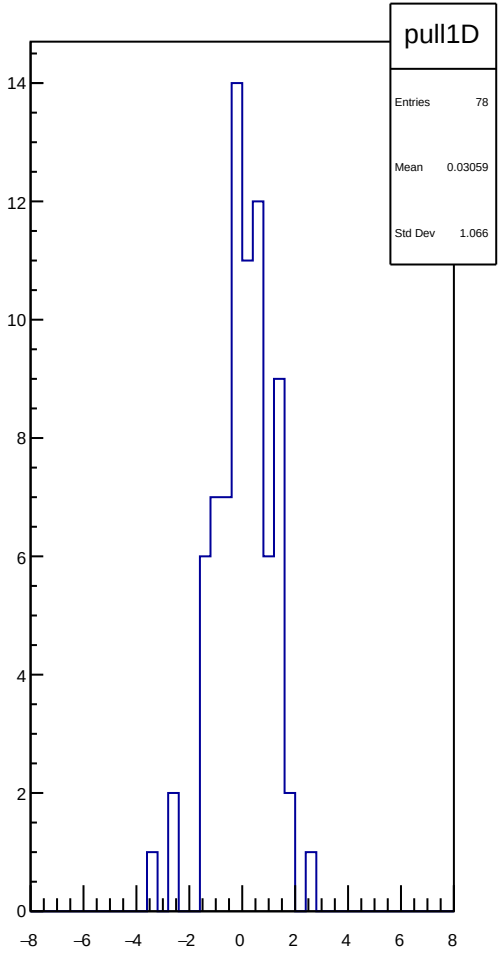

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 138.5 / 77
p0 0.1725 ± 0.03341
pull
Entries 78
Mean −197.4
Std Dev 248

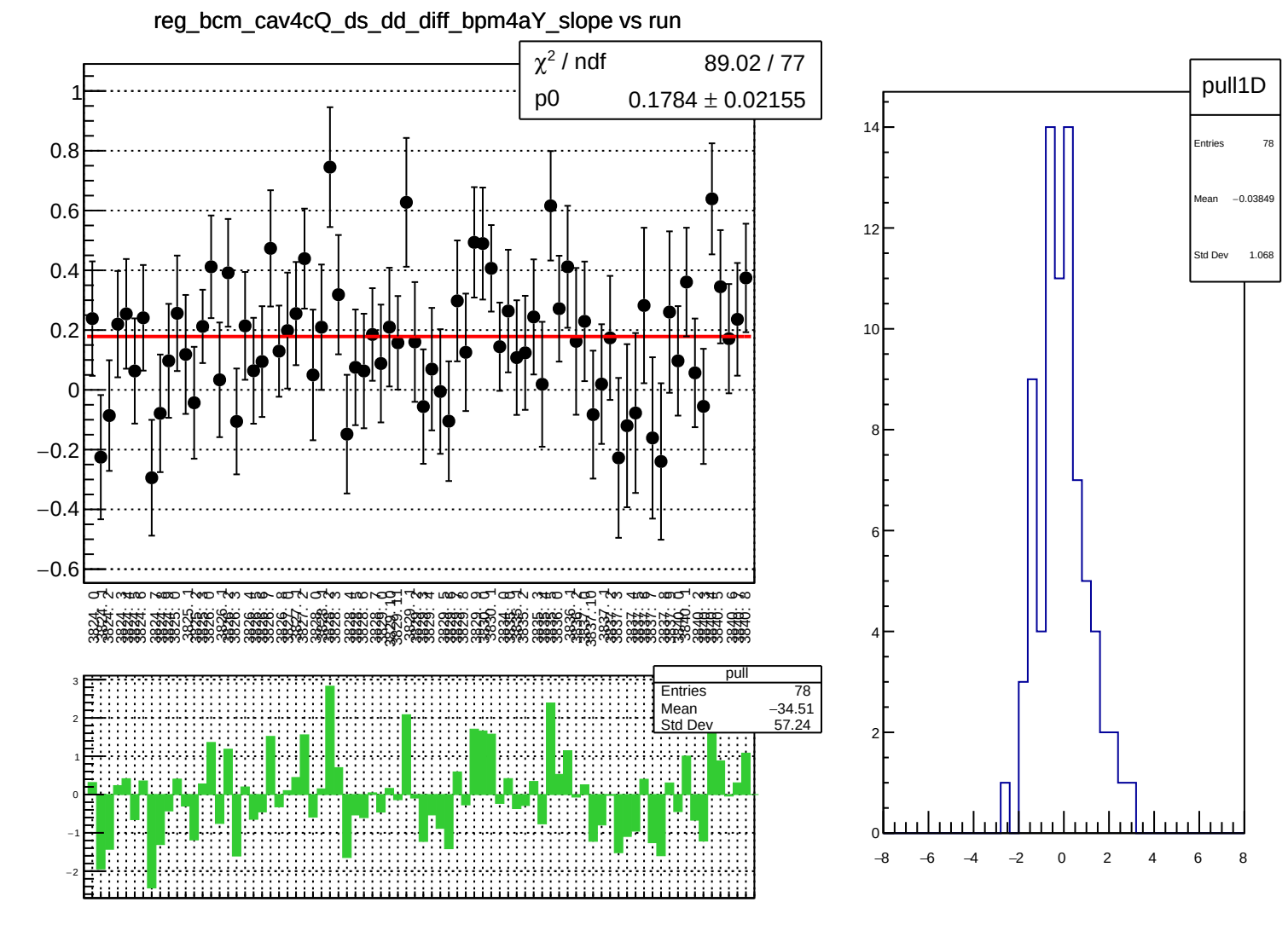

pull1D
Entries 78
Mean −0.01559
Std Dev 1.333

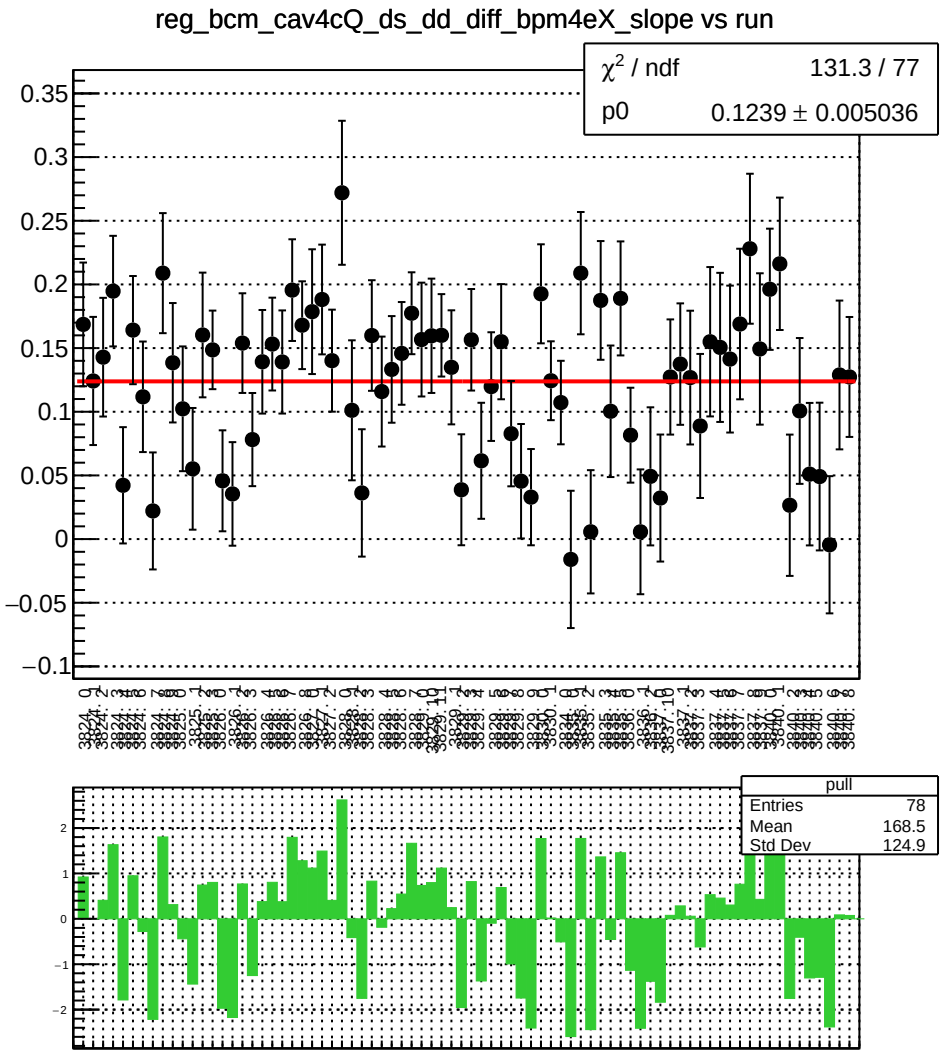

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 85.27 / 77
p0 0.001517 ± 0.006117
pull
Entries 78
Mean −226.1
Std Dev 275.5

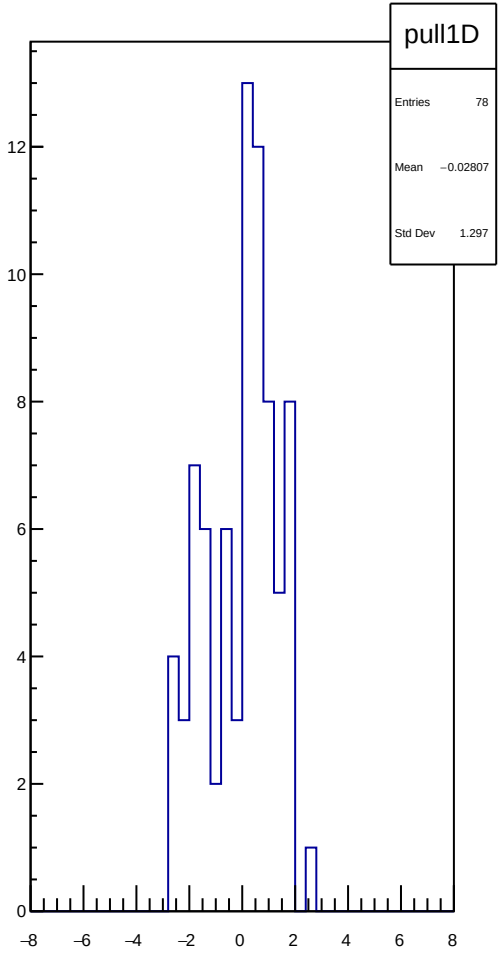

pull1D
Entries 78
Mean 0.008796
Std Dev 1.046

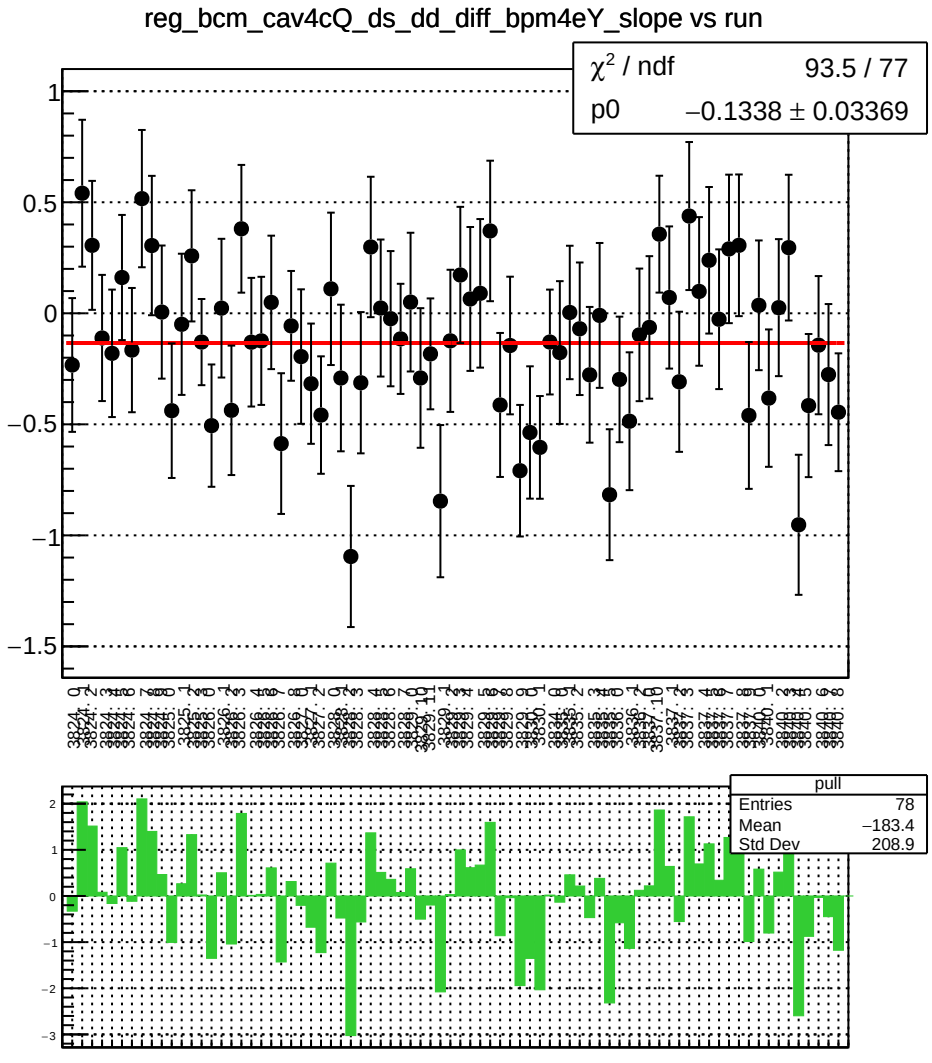

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 88.74 / 77
p0 0.07423 ± 0.02905
pull
Entries 78
Mean −10.84
Std Dev 37.08

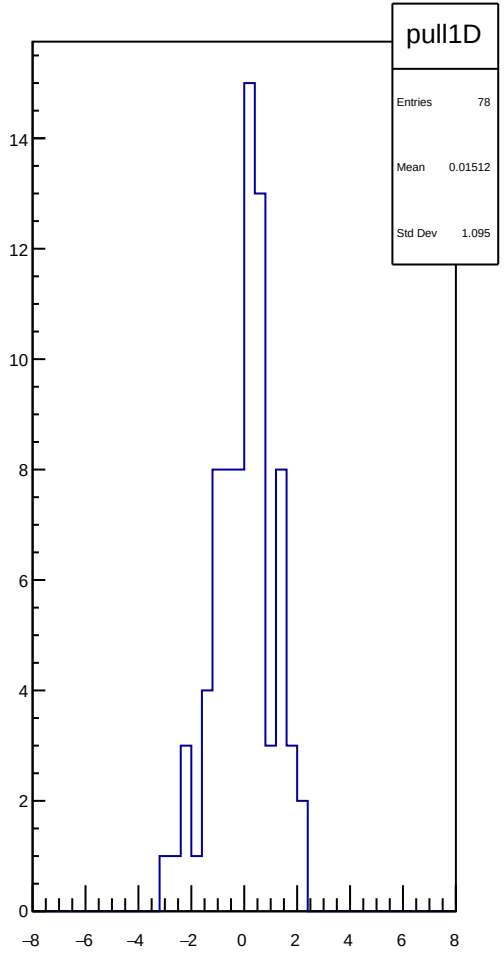

pull1D
Entries 78
Mean 0.03059
Std Dev 1.066

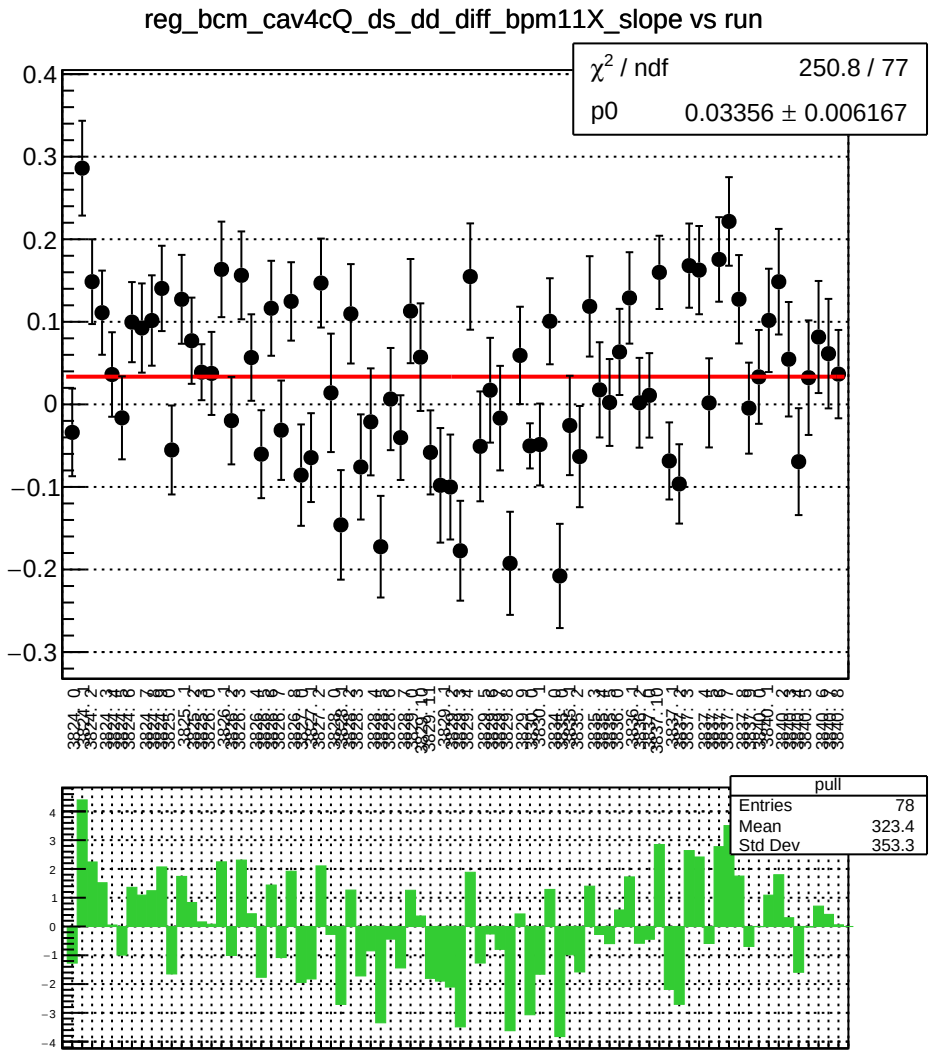

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 89.02 / 77
p0 0.1784 ± 0.02155
pull
Entries 78
Mean −34.51
Std Dev 57.24
pull1D
Entries 78
Mean −0.03849
Std Dev 1.068

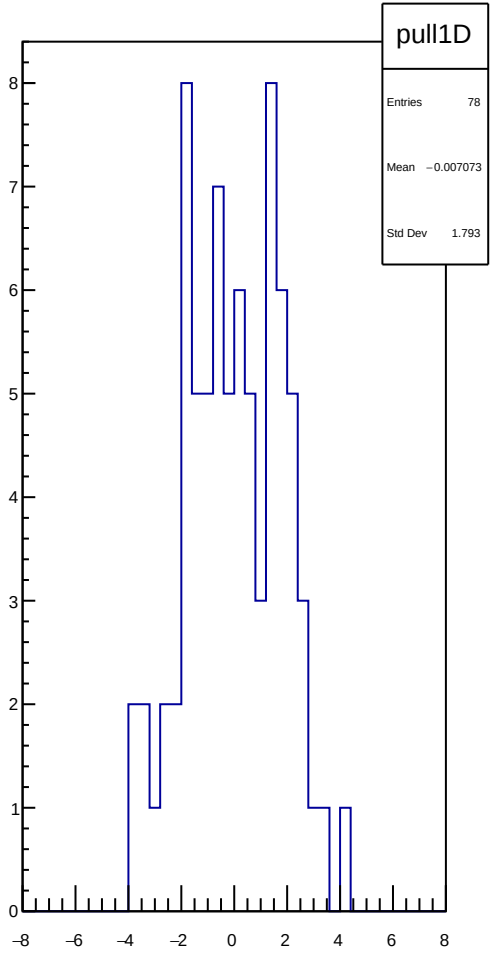

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 131.3 / 77
p0 0.1239 ± 0.005036
pull
Entries 78
Mean 168.5
Std Dev 124.9

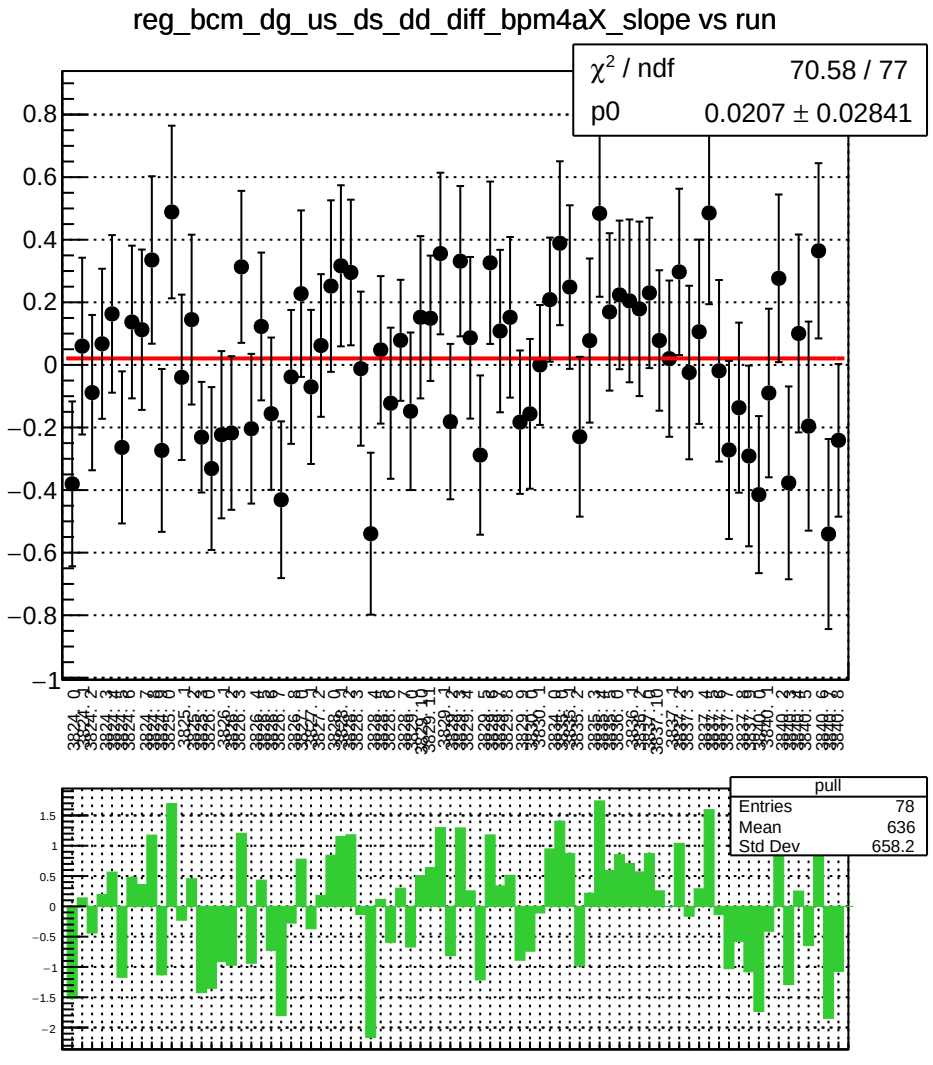

pull1D
Entries 78
Mean −0.02807
Std Dev 1.297

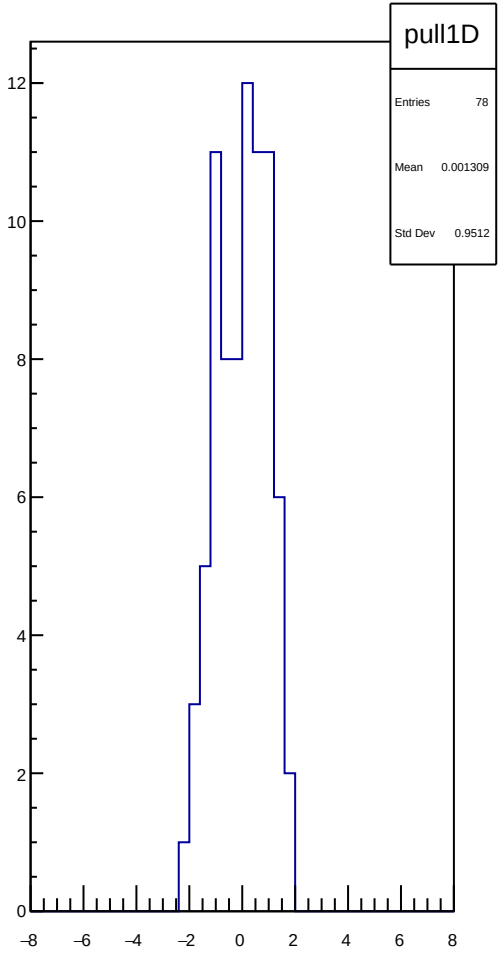

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 93.5 / 77
p0 −0.1338 ± 0.03369
pull
Entries 78
Mean −183.4
Std Dev 208.9

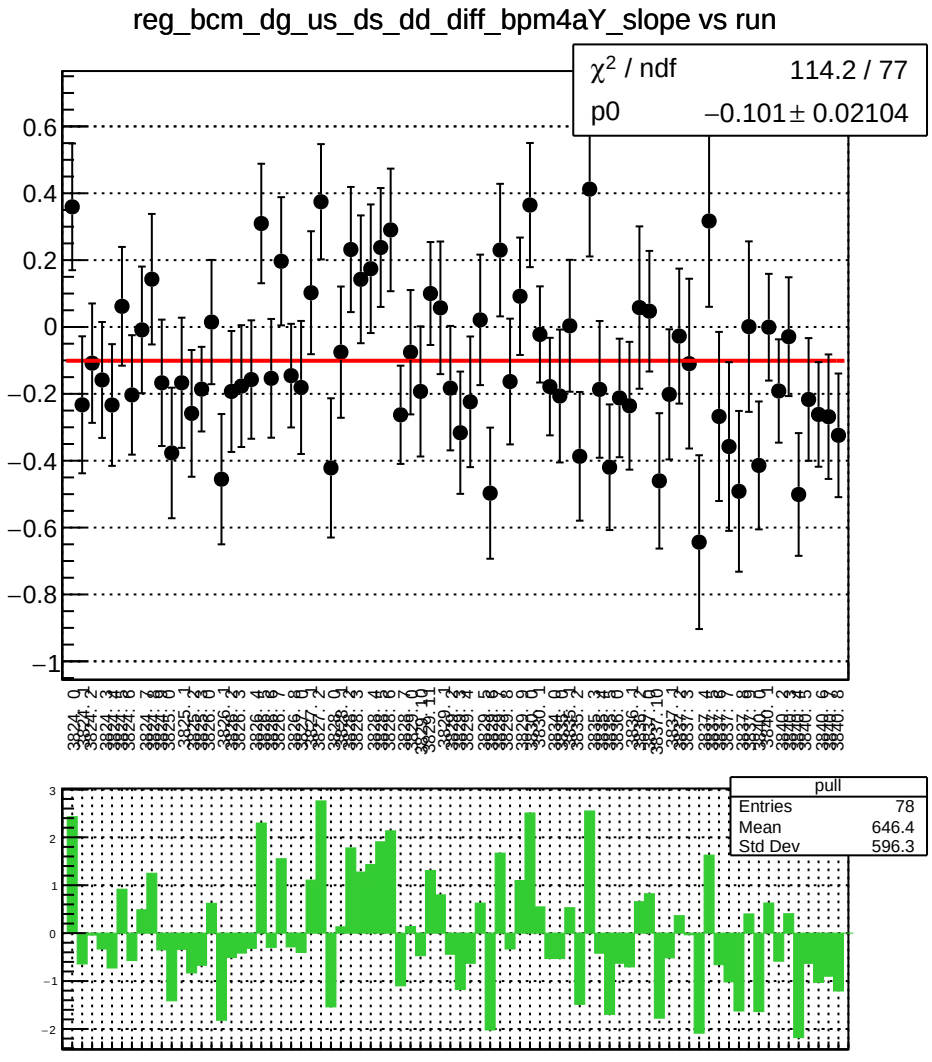

pull1D
Entries 78
Mean 0.01512
Std Dev 1.095

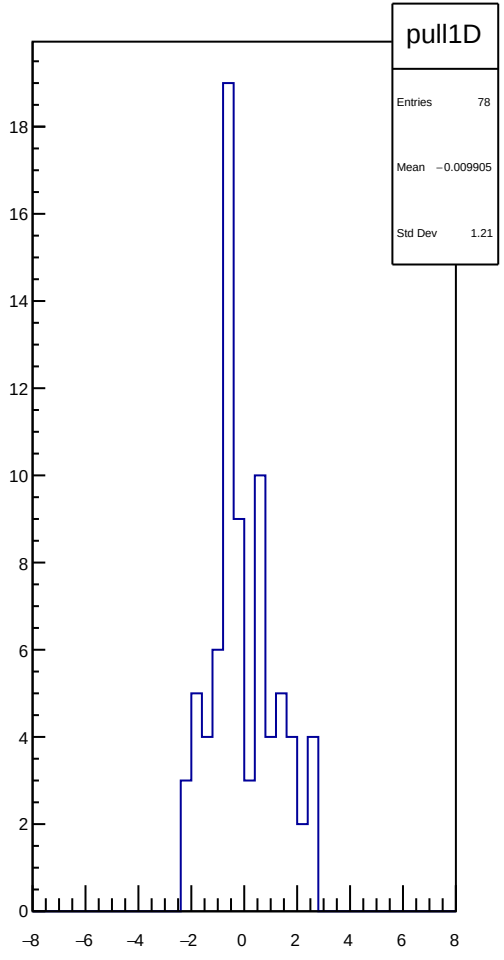

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 250.8 / 77
p0 0.03356 ± 0.006167
pull
Entries 78
Mean 323.4
Std Dev 353.3

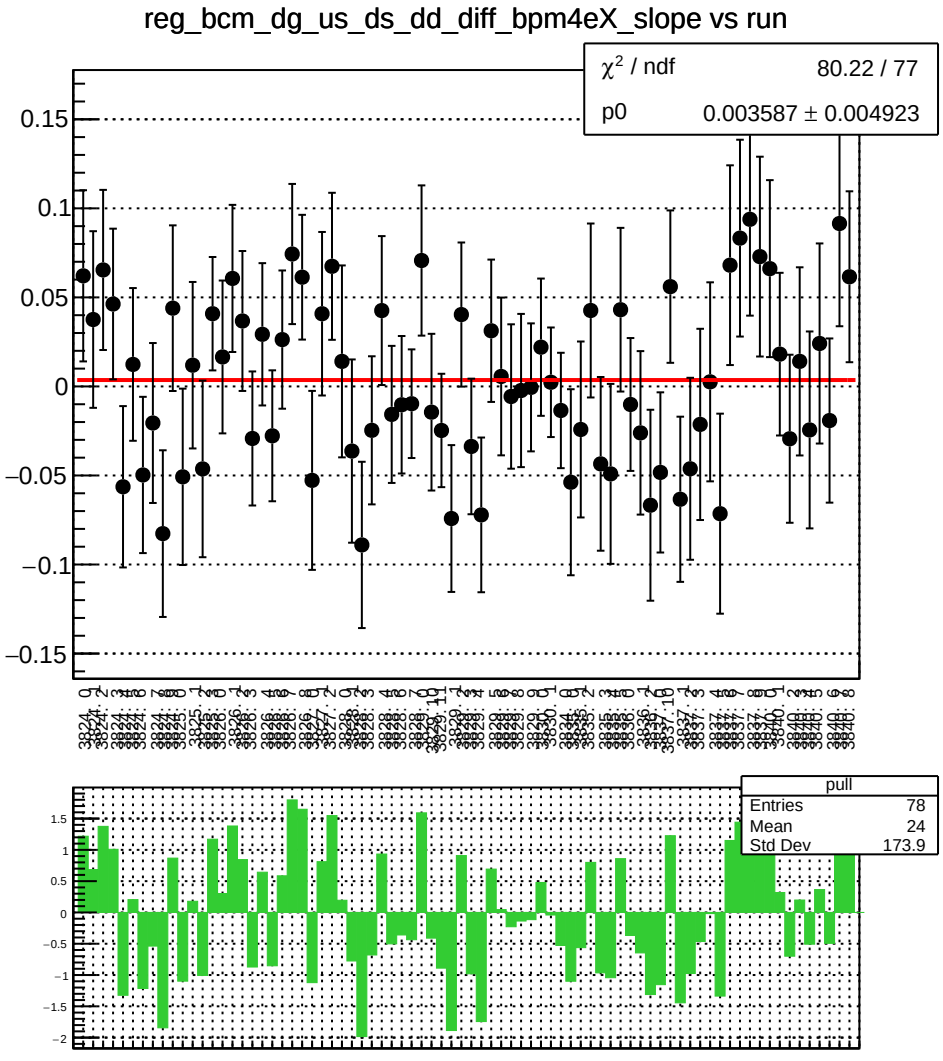

pull1D
Entries 78
Mean −0.007073
Std Dev 1.793

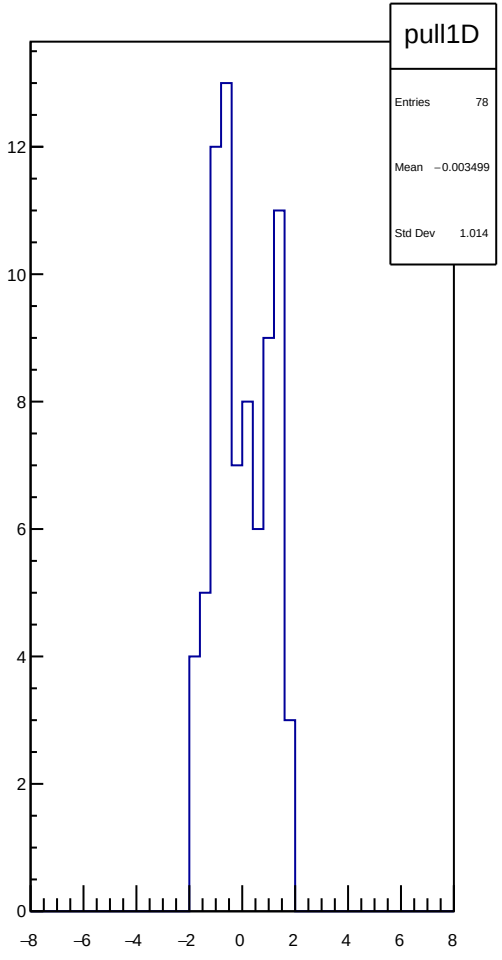

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 70.58 / 77
p0 0.0207 ± 0.02841
pull
Entries 78
Mean 636
Std Dev 658.2

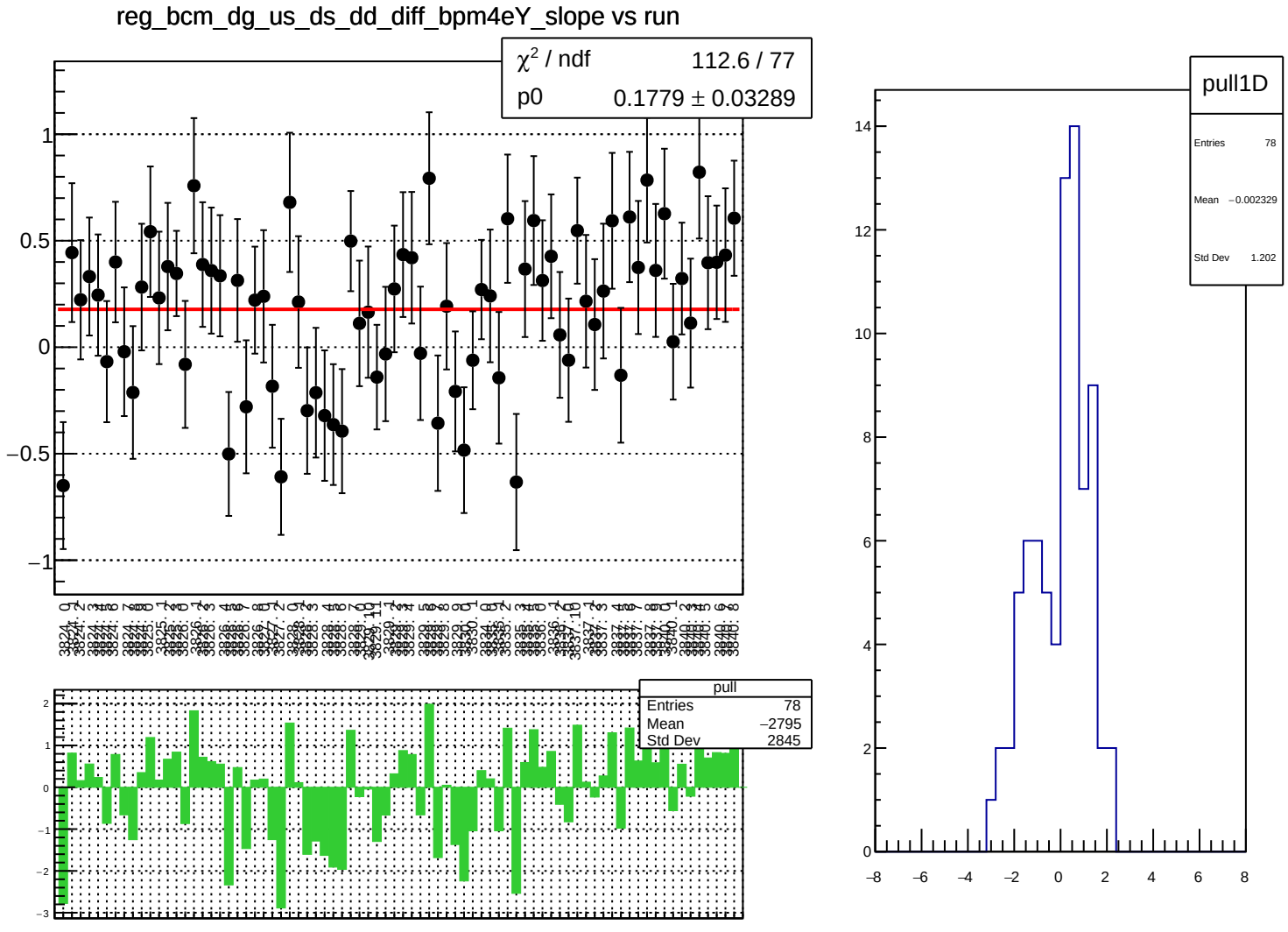

pull1D
Entries 78
Mean 0.001309
Std Dev 0.9512

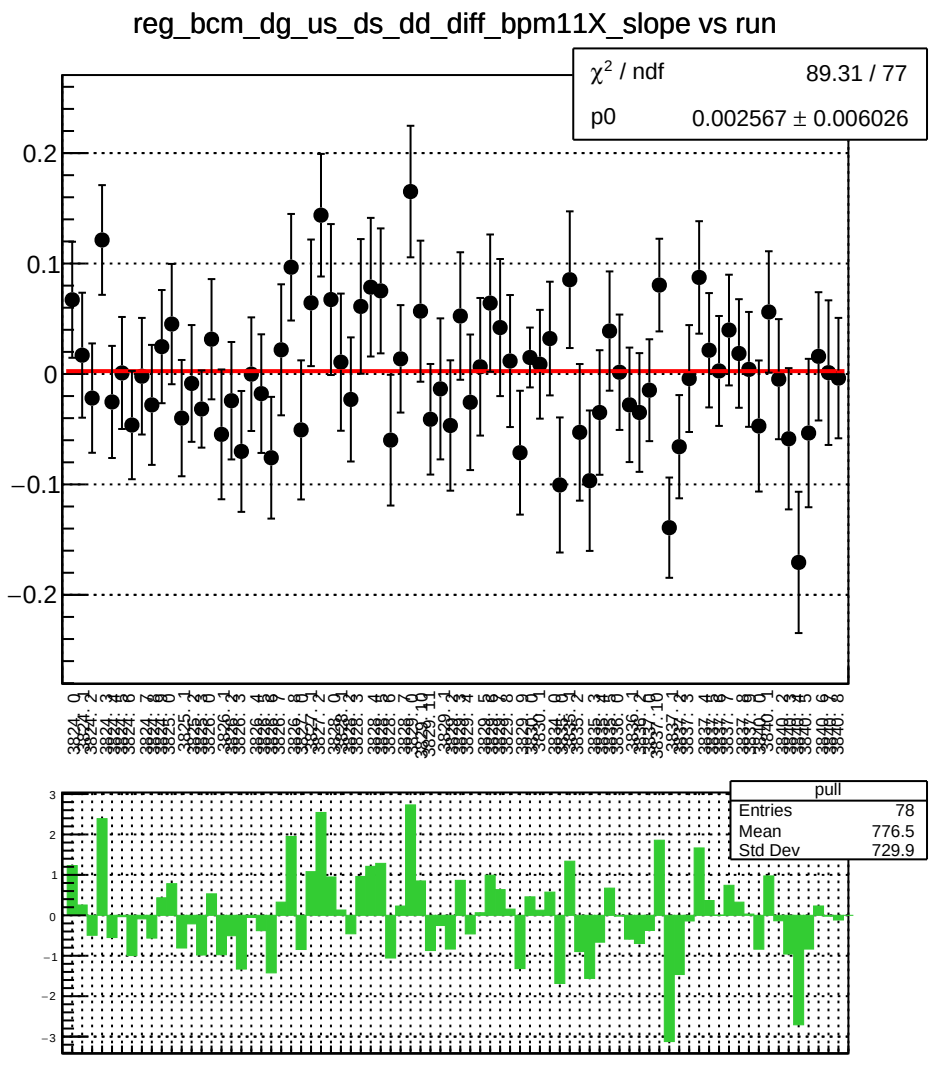

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 114.2 / 77
p0 −0.101 ± 0.02104
pull
Entries 78
Mean 646.4
Std Dev 596.3

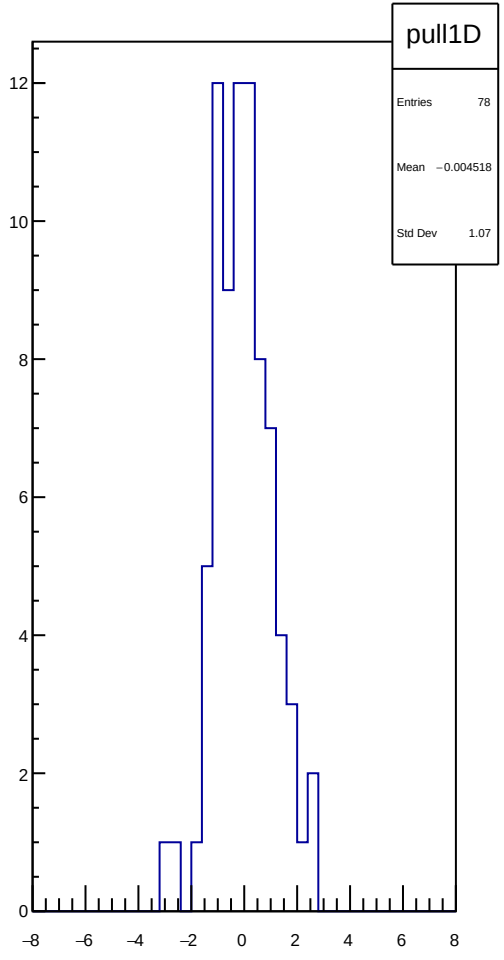

pull1D
Entries 78
Mean −0.009905
Std Dev 1.21

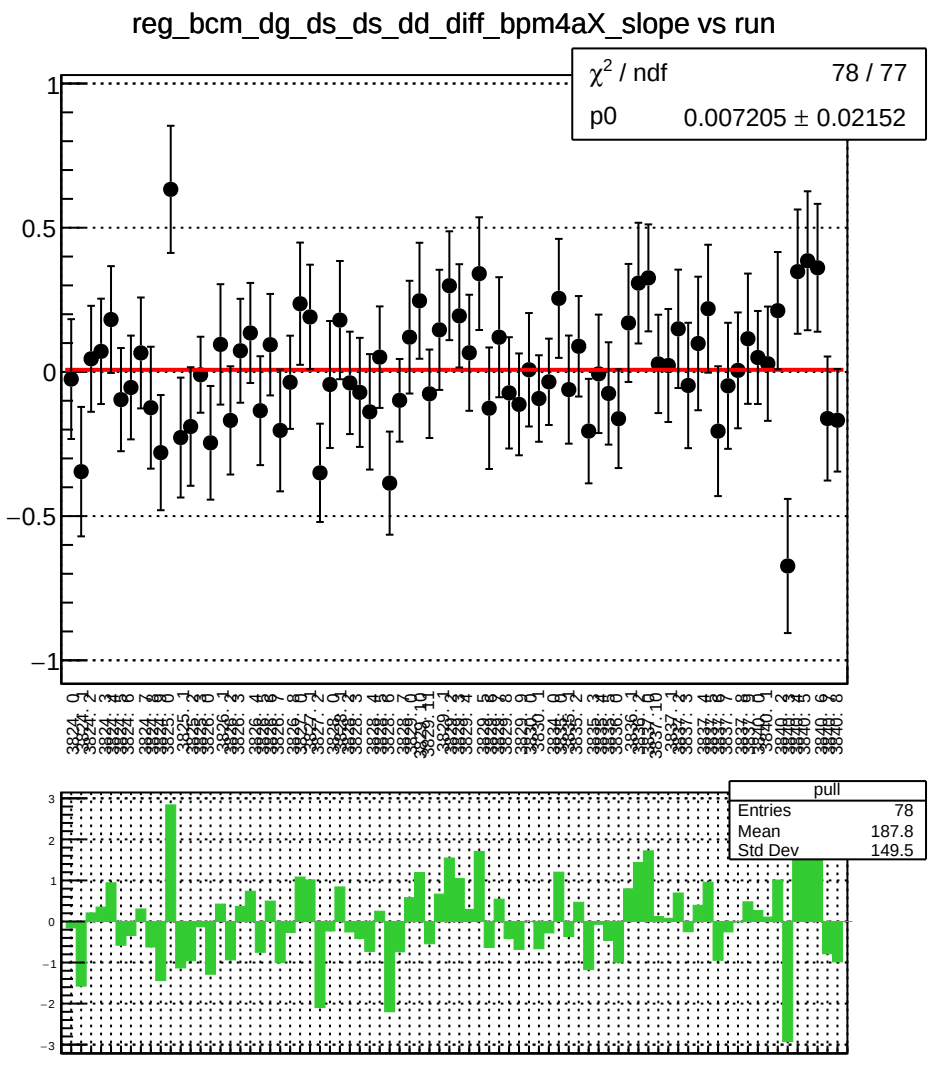

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.22 / 77
p0 0.003587 ± 0.004923
pull
Entries 78
Mean 24
Std Dev 173.9

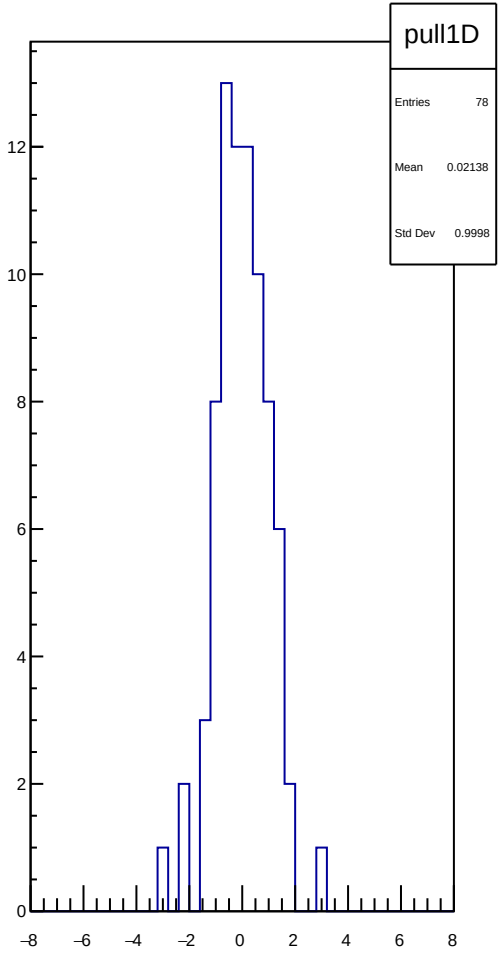

pull1D
Entries 78
Mean −0.003499
Std Dev 1.014

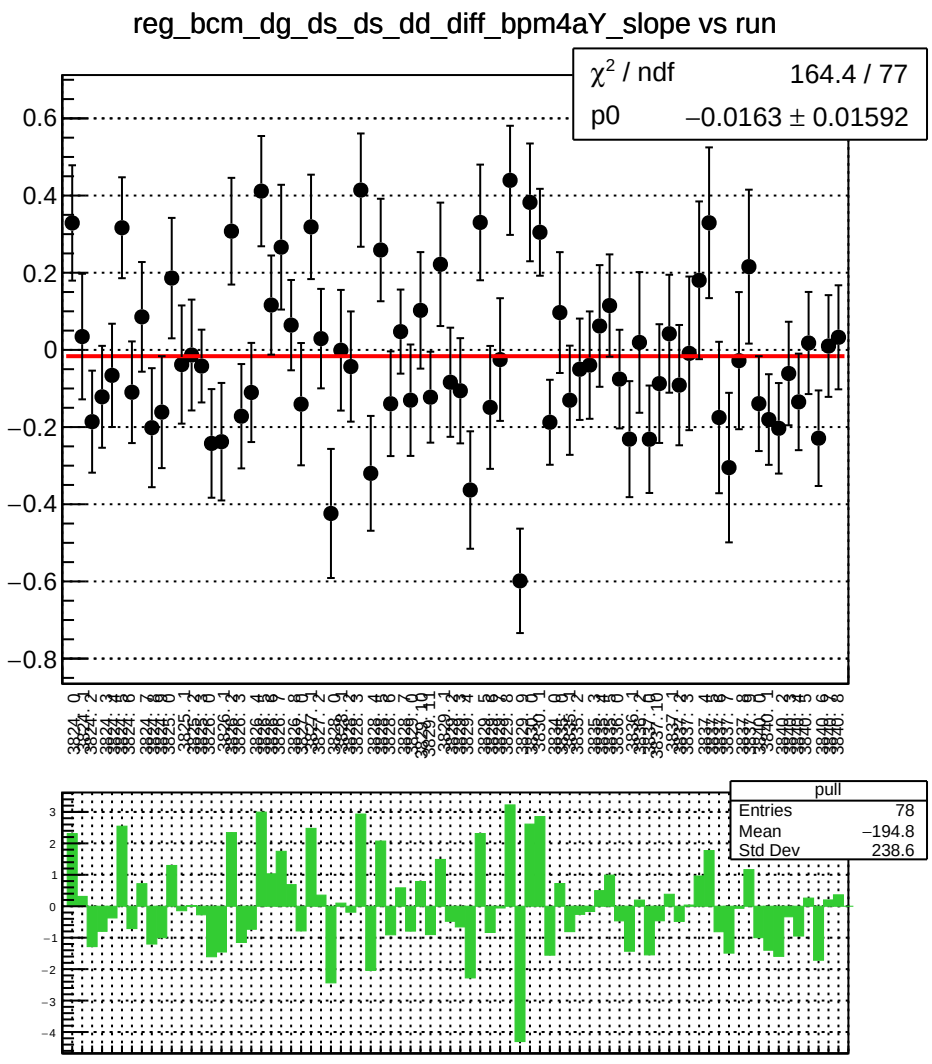

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 112.6 / 77
p0 0.1779 ± 0.03289
pull
Entries 78
Mean −2795
Std Dev 2845
pull1D
Entries 78
Mean −0.002329
Std Dev 1.202

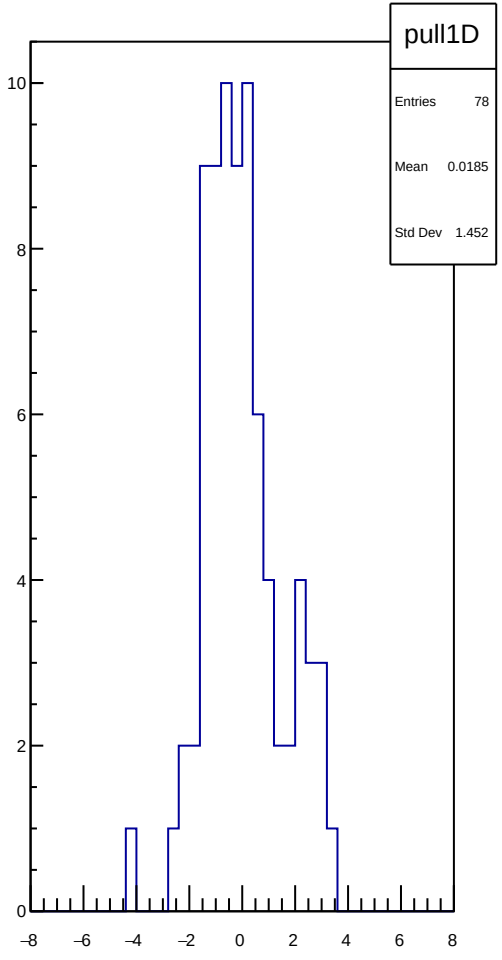

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 89.31 / 77
p0 0.002567 ± 0.006026
pull
Entries 78
Mean 776.5
Std Dev 729.9

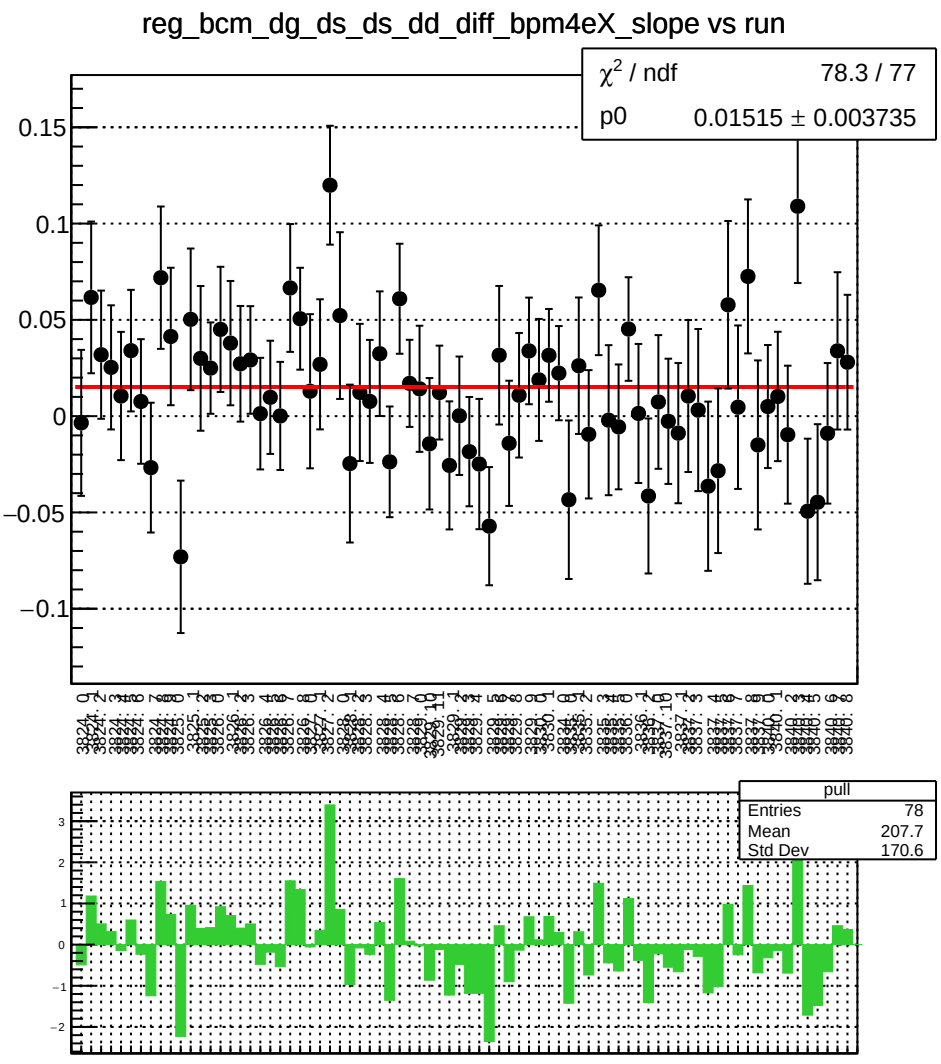

pull1D
Entries 78
Mean −0.004518
Std Dev 1.07

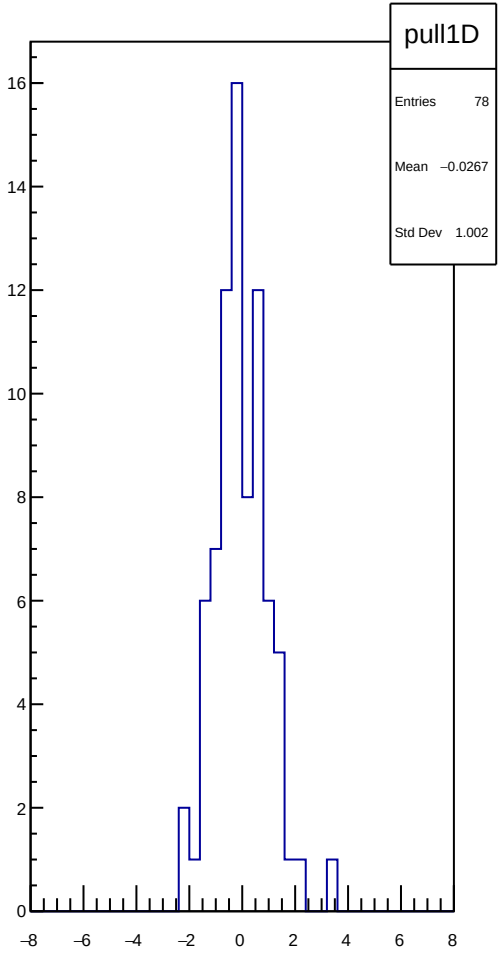

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 78 / 77
p0 0.007205 ± 0.02152
pull
Entries 78
Mean 187.8
Std Dev 149.5

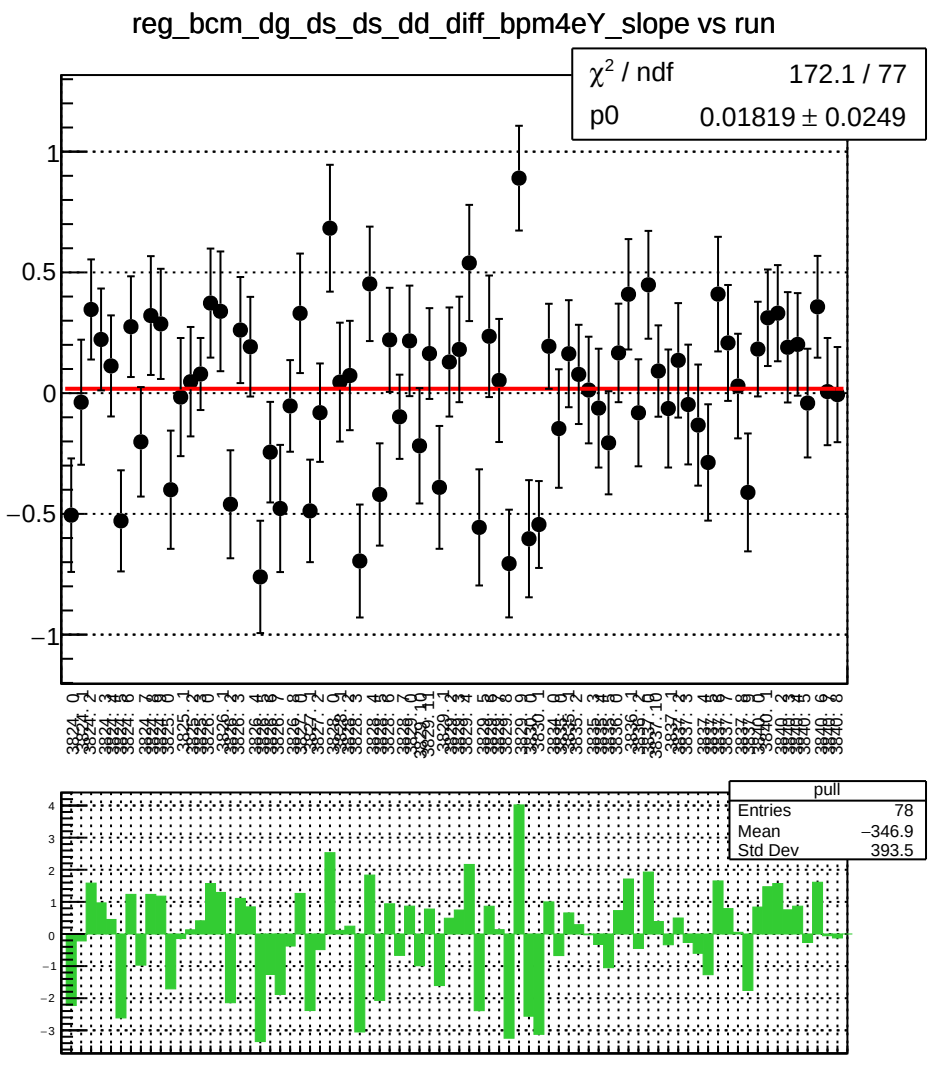

pull1D
Entries 78
Mean 0.02138
Std Dev 0.9998

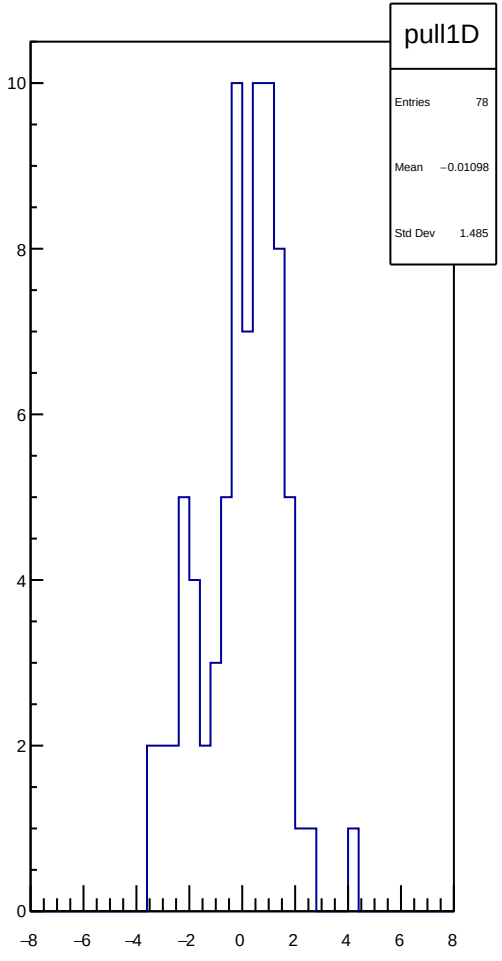

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 164.4 / 77
p0 −0.0163 ± 0.01592
pull
Entries 78
Mean −194.8
Std Dev 238.6

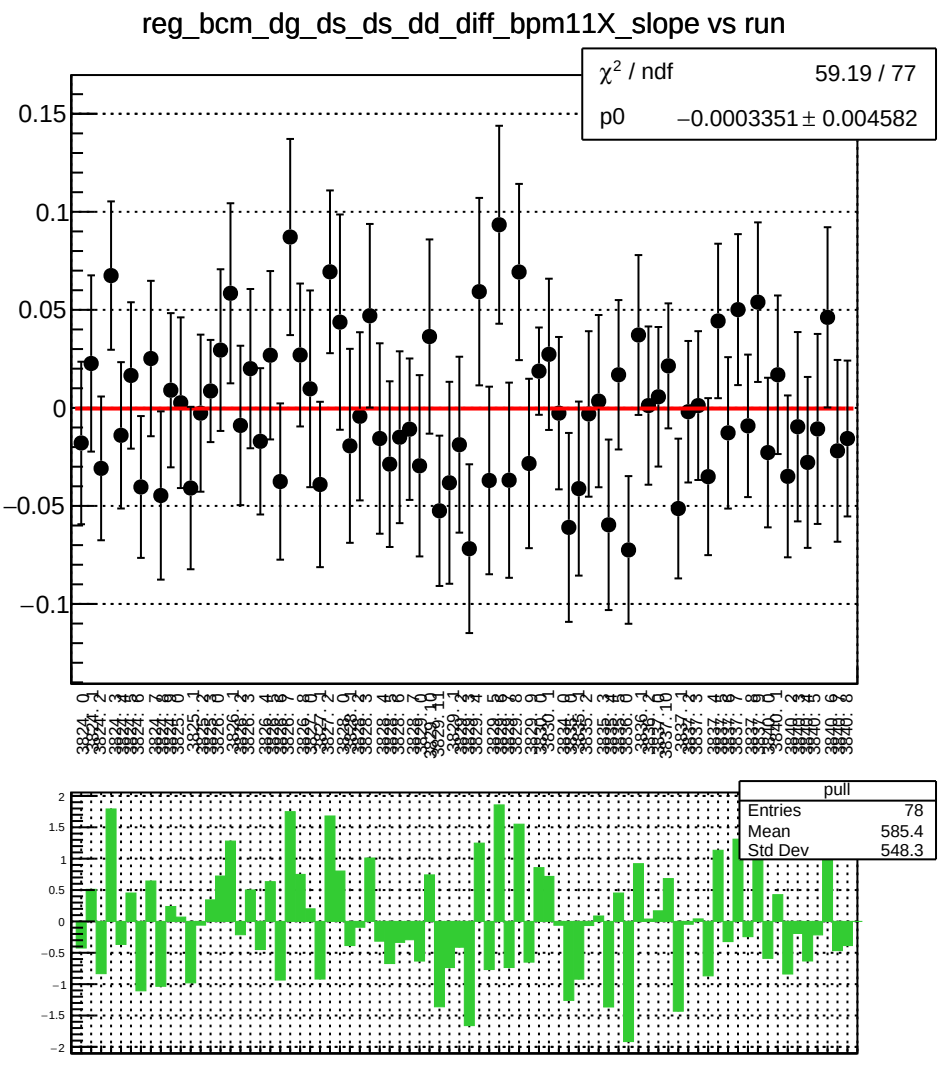

pull1D
Entries 78
Mean 0.0185
Std Dev 1.452

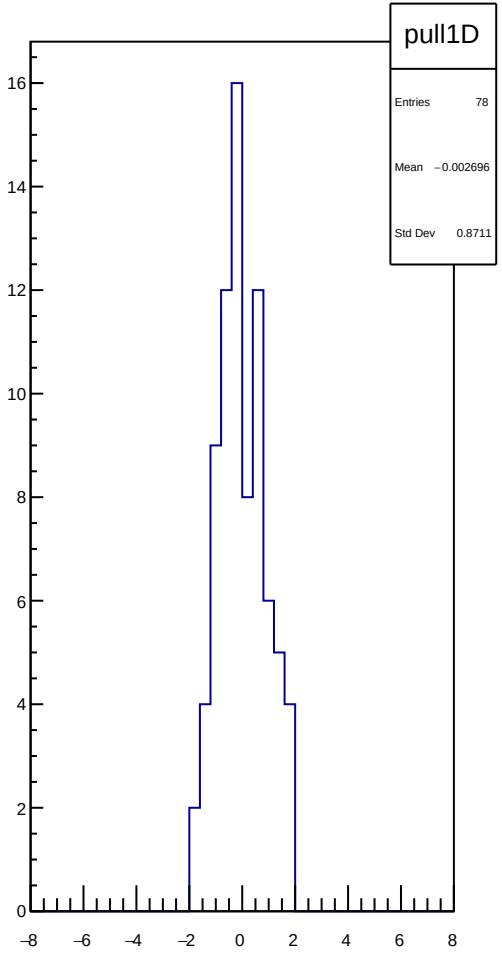

reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.3 / 77
p0 0.01515 ± 0.003735
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 78
Mean 207.7
Std Dev 170.6
3
2
1
0
−1
−2

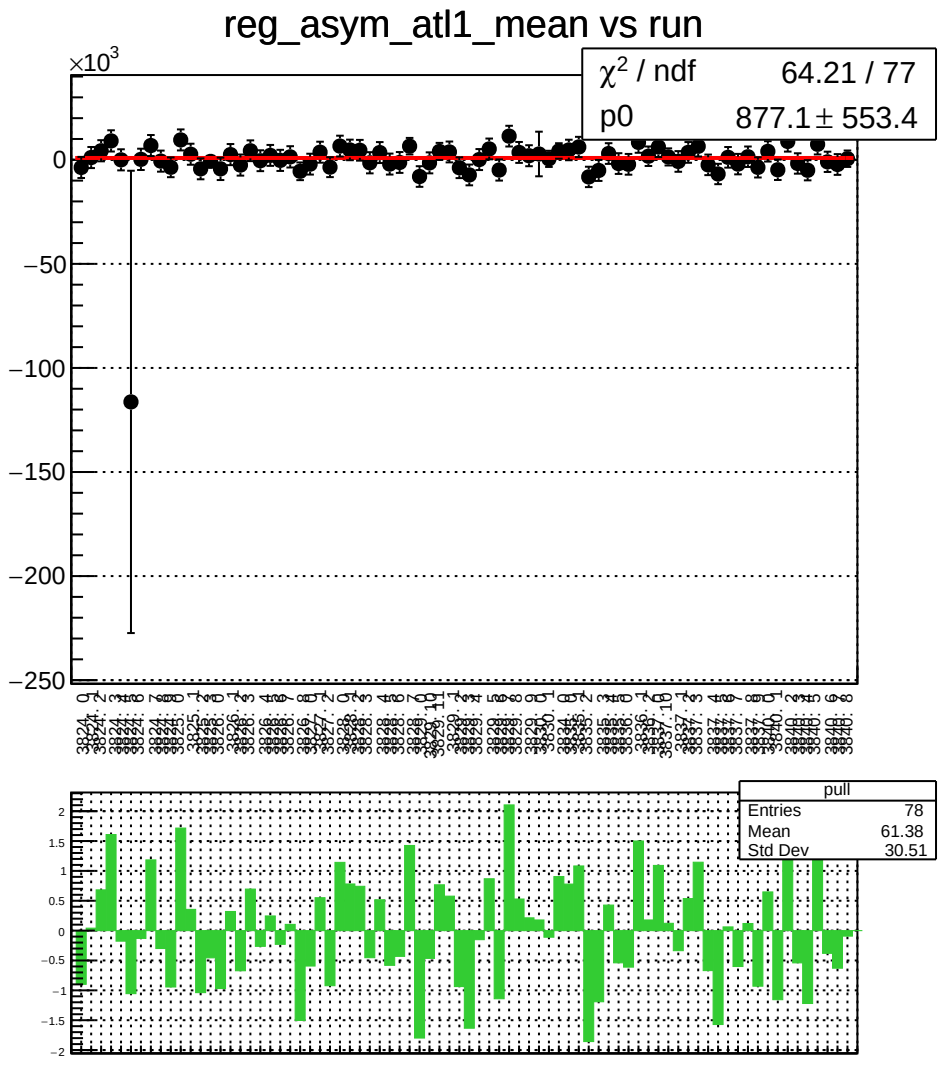

pull1D
Entries 78
Mean −0.0267
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

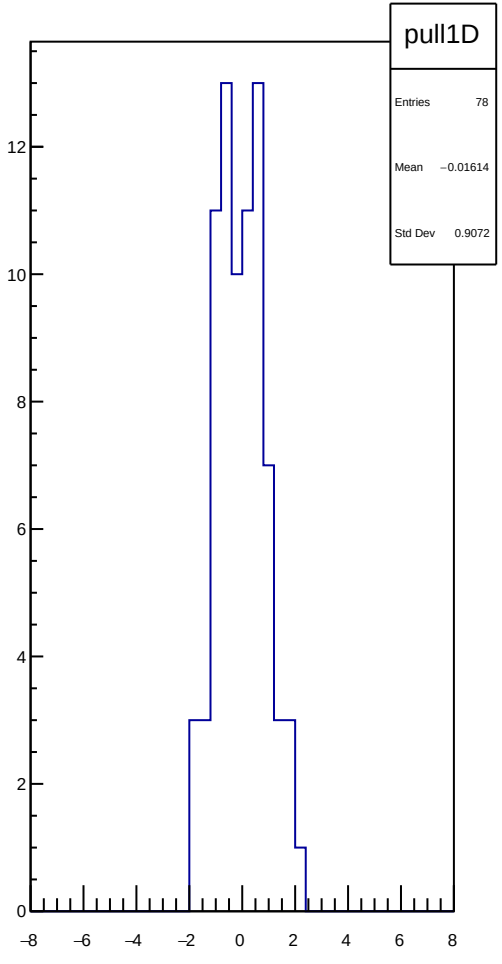

reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 172.1 / 77
p0 0.01819 ± 0.0249
pull
Entries 78
Mean −346.9
Std Dev 393.5

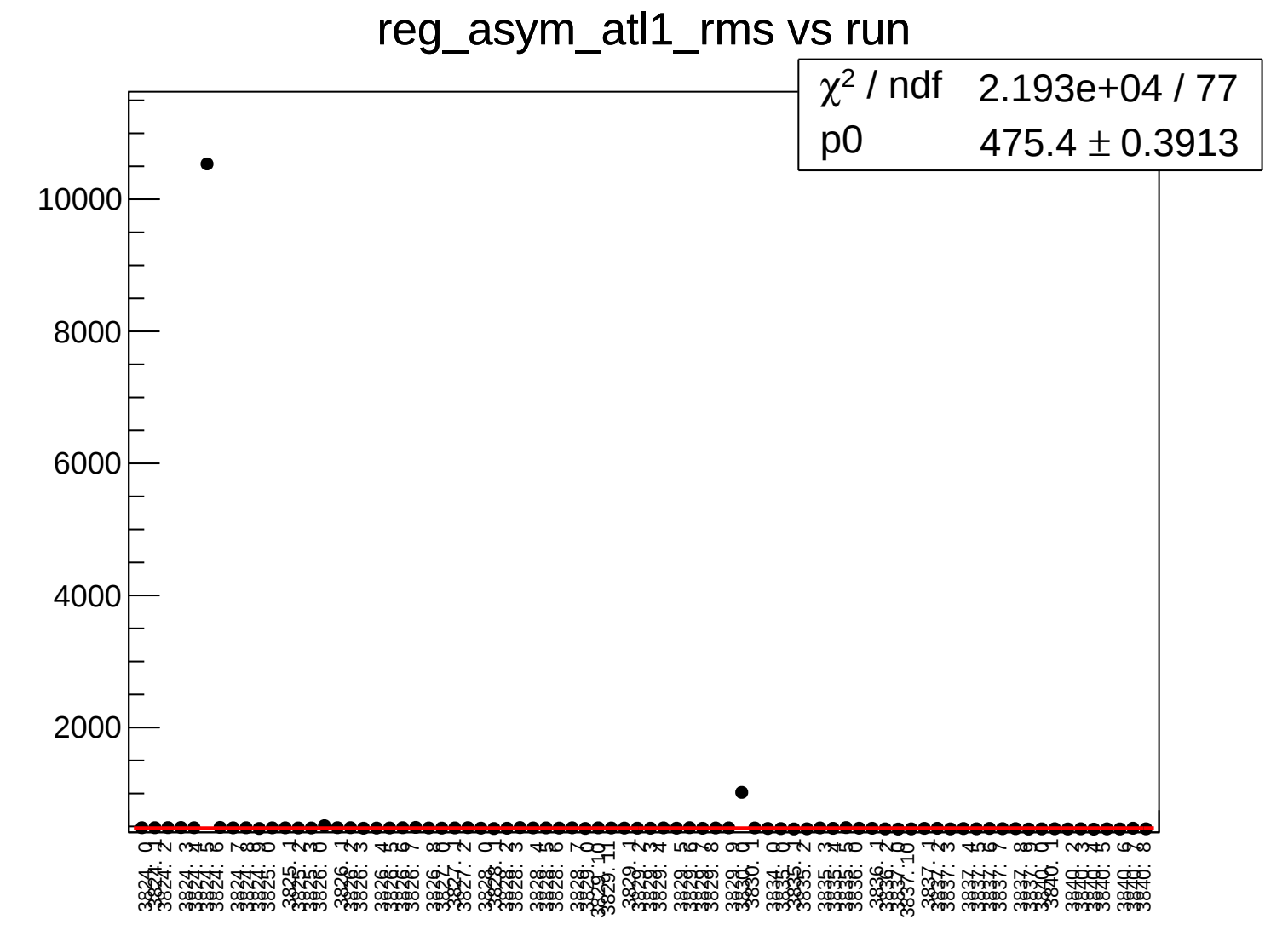

pull1D
Entries 78
Mean −0.01098
Std Dev 1.485

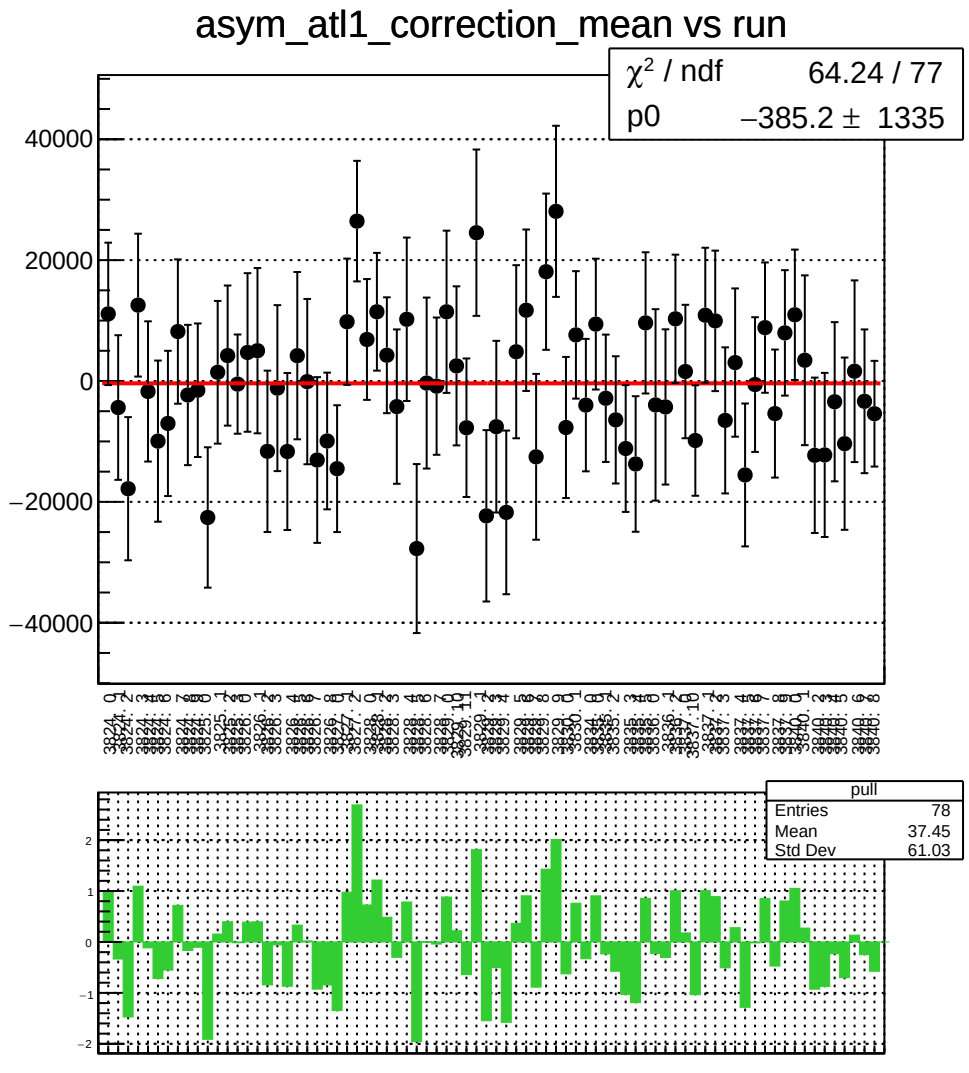

reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 59.19 / 77
p0 −0.0003351 ± 0.004582
pull
Entries 78
Mean 585.4
Std Dev 548.3

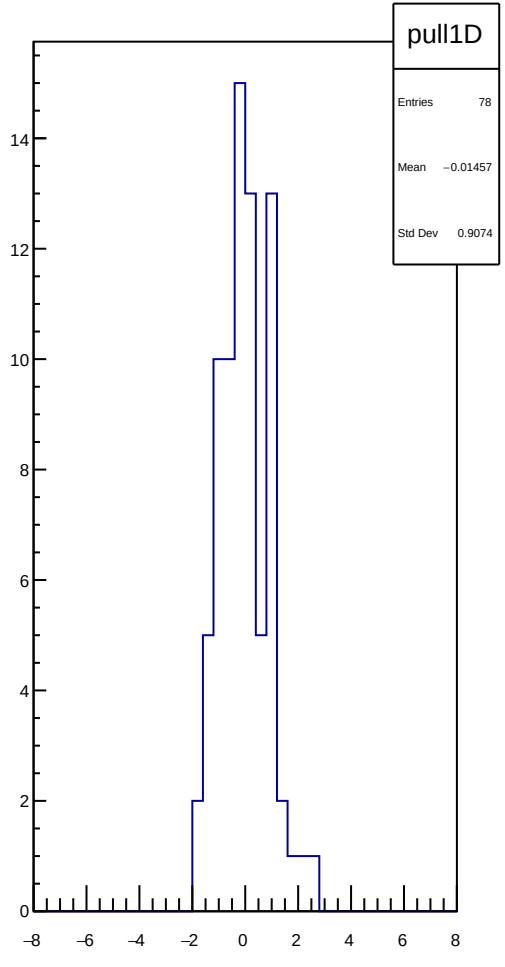

pull1D
Entries 78
Mean −0.002696
Std Dev 0.8711

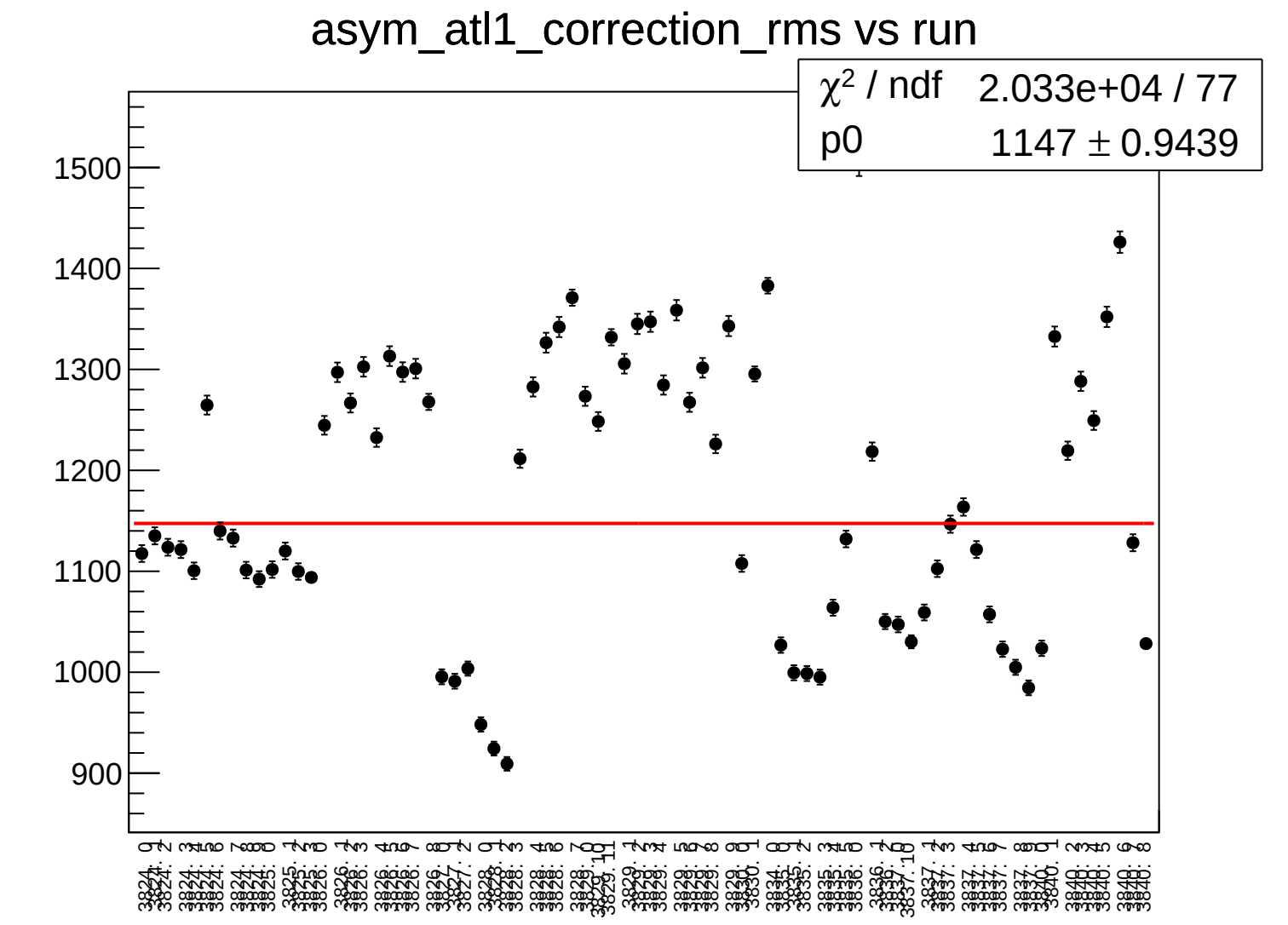

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 64.21 / 77
p0 877.1 ± 553.4
pull
Entries 78
Mean 61.38
Std Dev 30.51

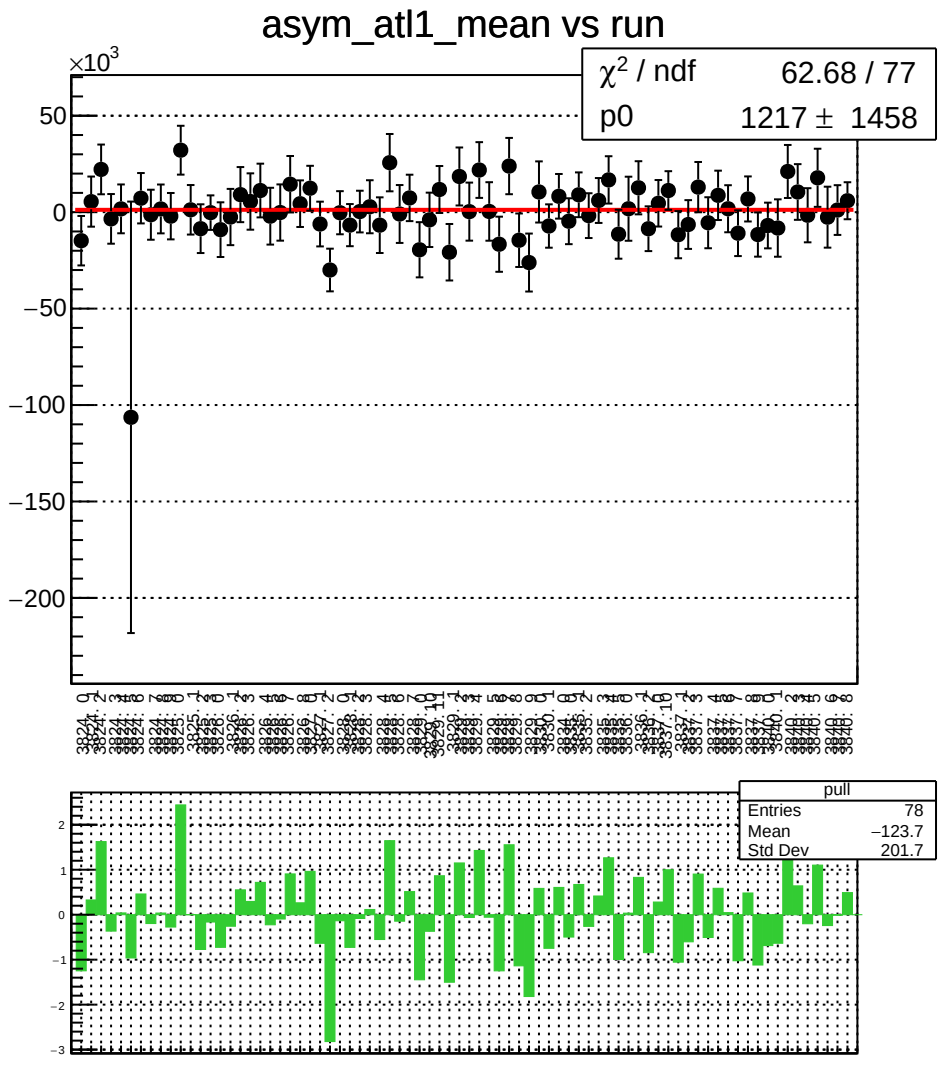

pull1D
Entries 78
Mean −0.01614
Std Dev 0.9072

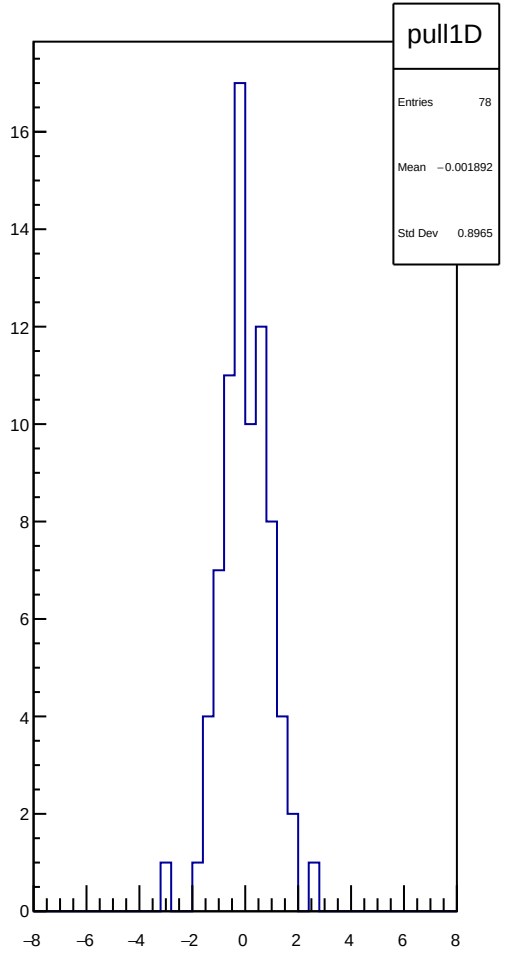

reg_asym_atl1_rms vs run
χ² / ndf 2.193e+04 / 77
p0 475.4 ± 0.3913
10000
8000
6000
4000
2000

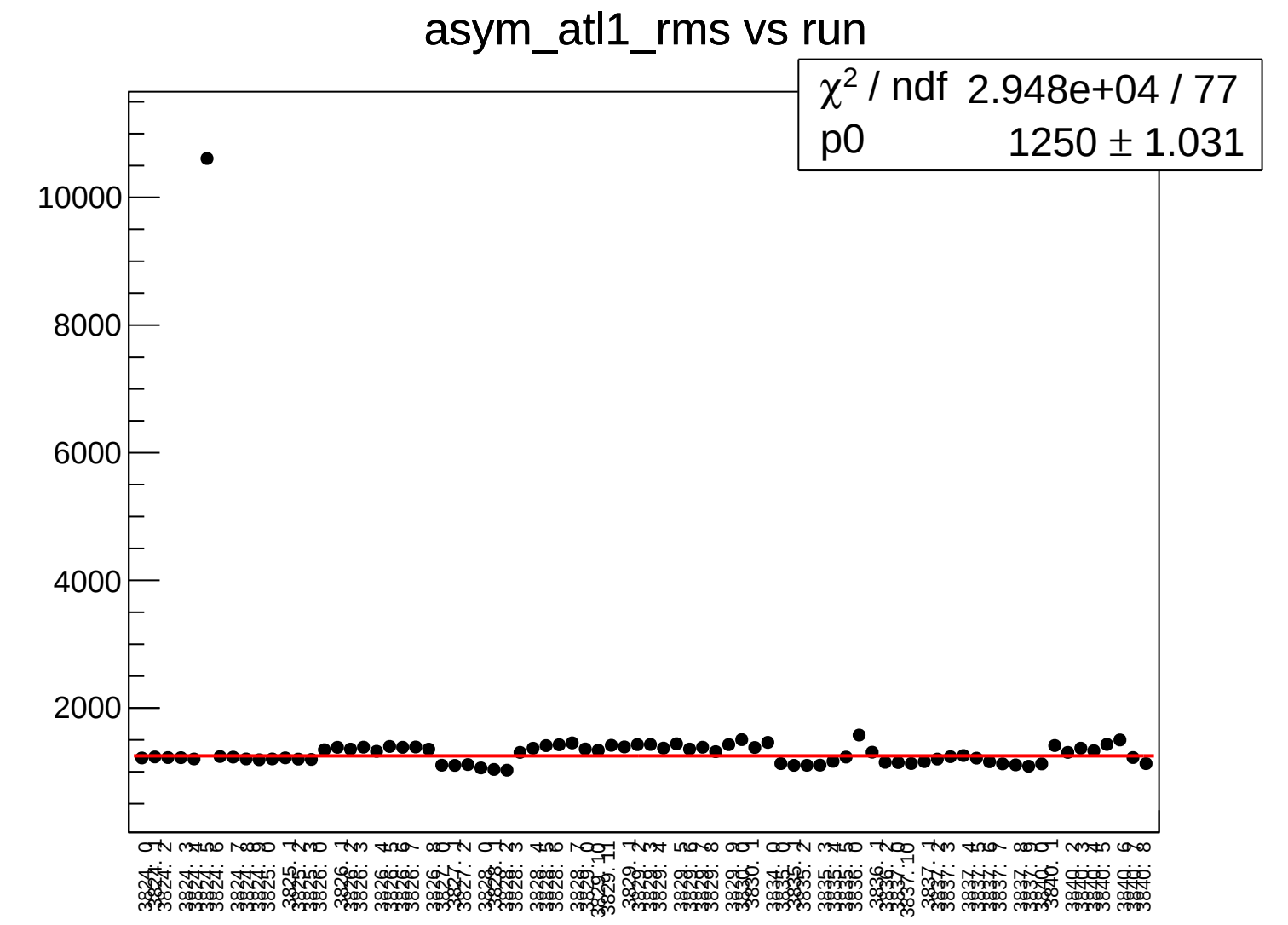

asym_atl1_correction_mean vs run
χ² / ndf 64.24 / 77
p0 −385.2 ± 1335
40000
20000
0
−20000
−40000
pull
Entries 78
Mean 37.45
Std Dev 61.03
2
1
0
−1
−2

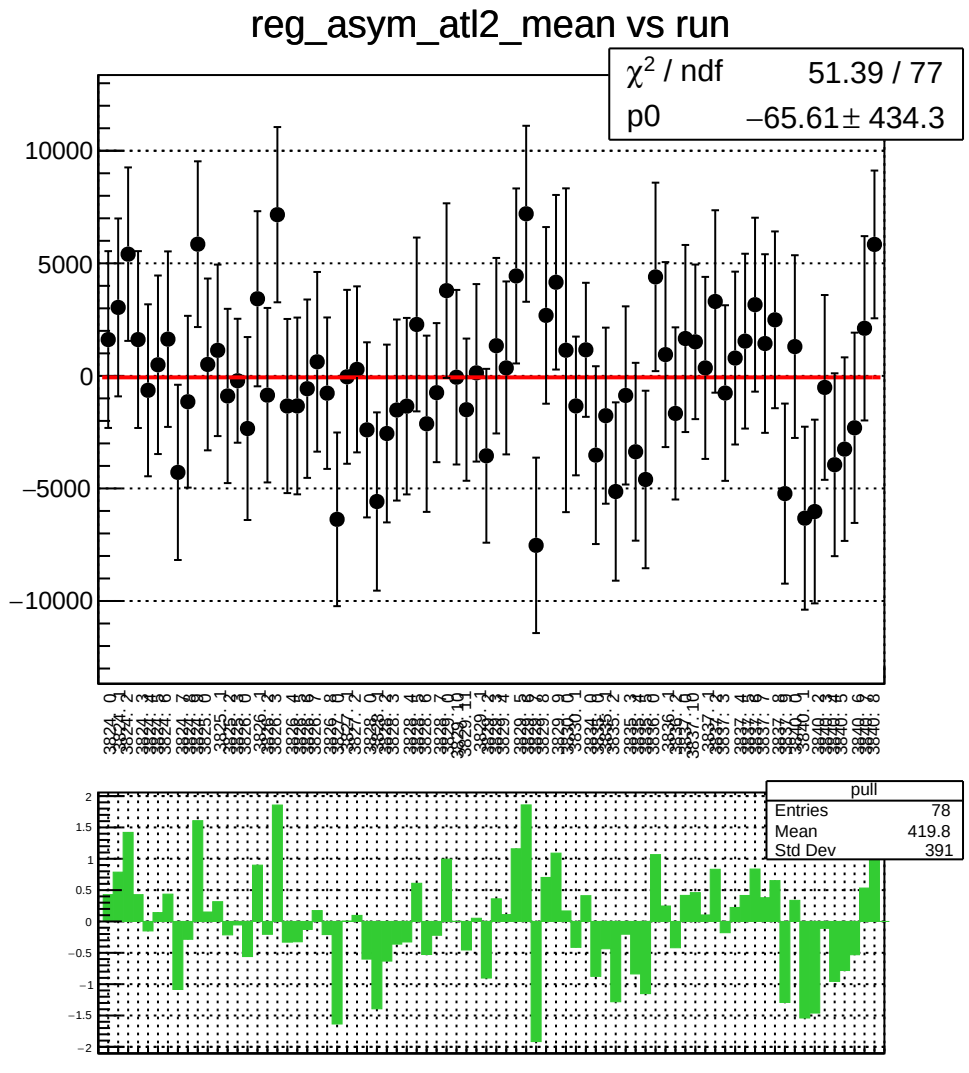

pull1D
Entries 78
Mean −0.01457
Std Dev 0.9074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

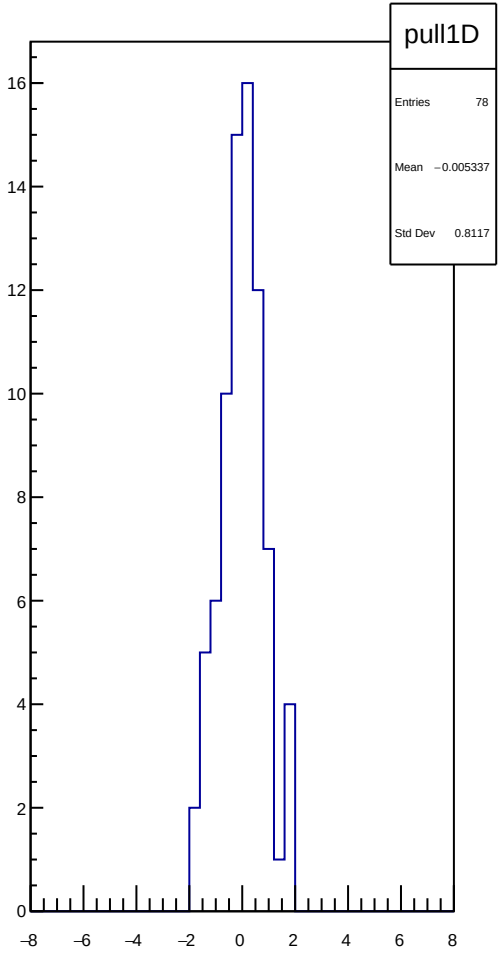

asym_atl1_correction_rms vs run
χ² / ndf 2.033e+04 / 77
p0 1147 ± 0.9439
1500
1400
1300
1200
1100
1000
900

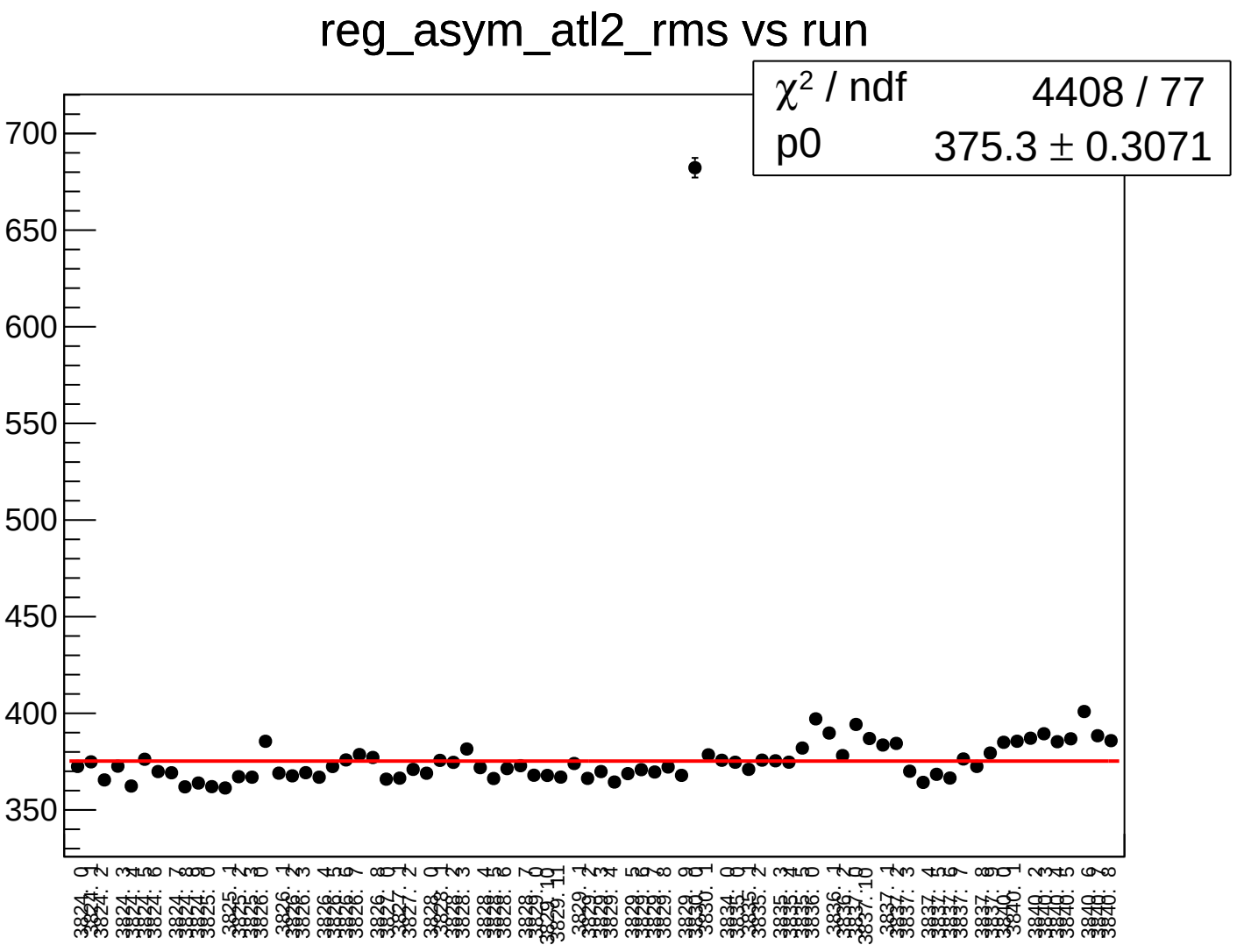

asym_atl1_mean vs run
×10^3
χ^2 / ndf 62.68 / 77
p0 1217 ± 1458
pull
Entries 78
Mean −123.7
Std Dev 201.7

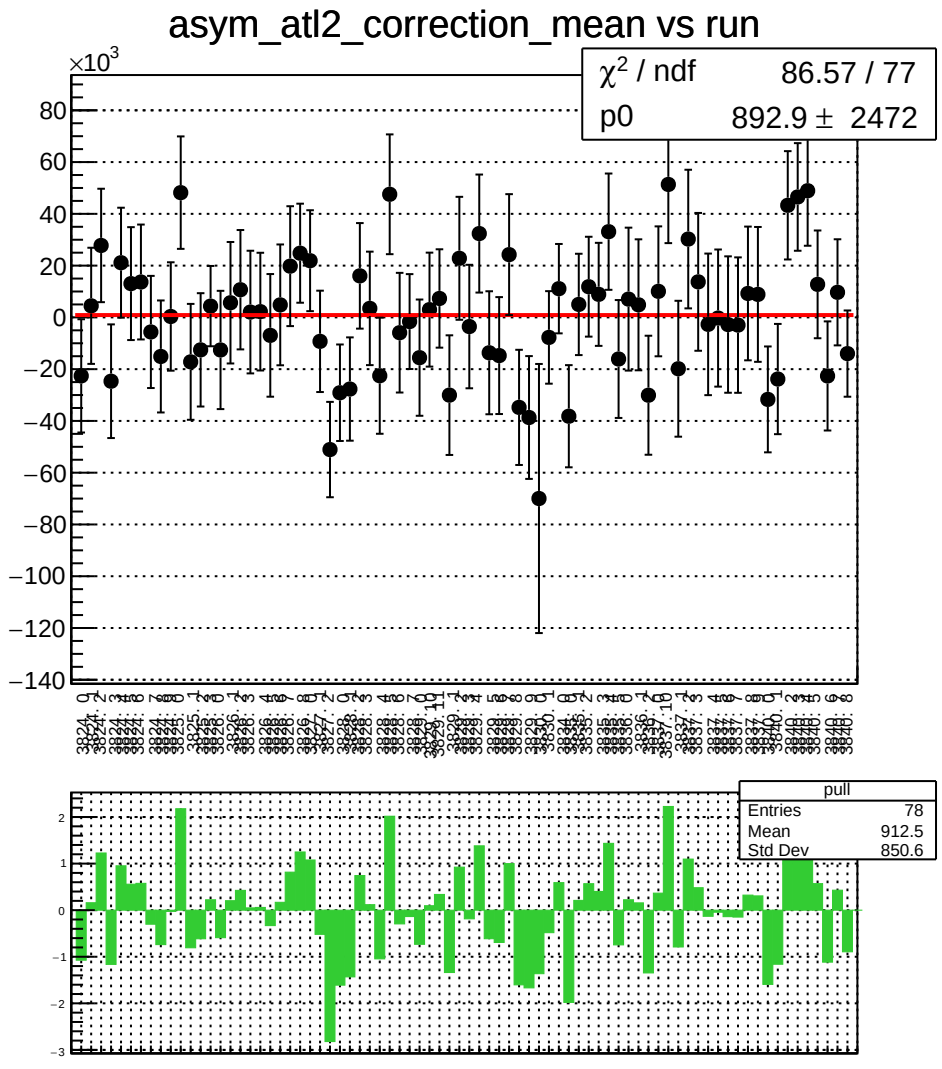

pull1D
Entries 78
Mean −0.001892
Std Dev 0.8965

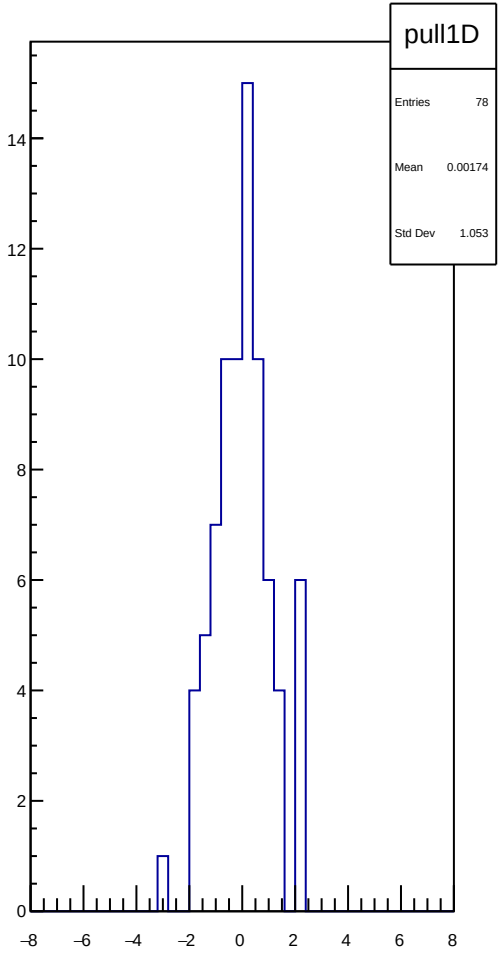

asym_atl1_rms vs run
χ² / ndf 2.948e+04 / 77
p0 1250 ± 1.031
10000
8000
6000
4000
2000

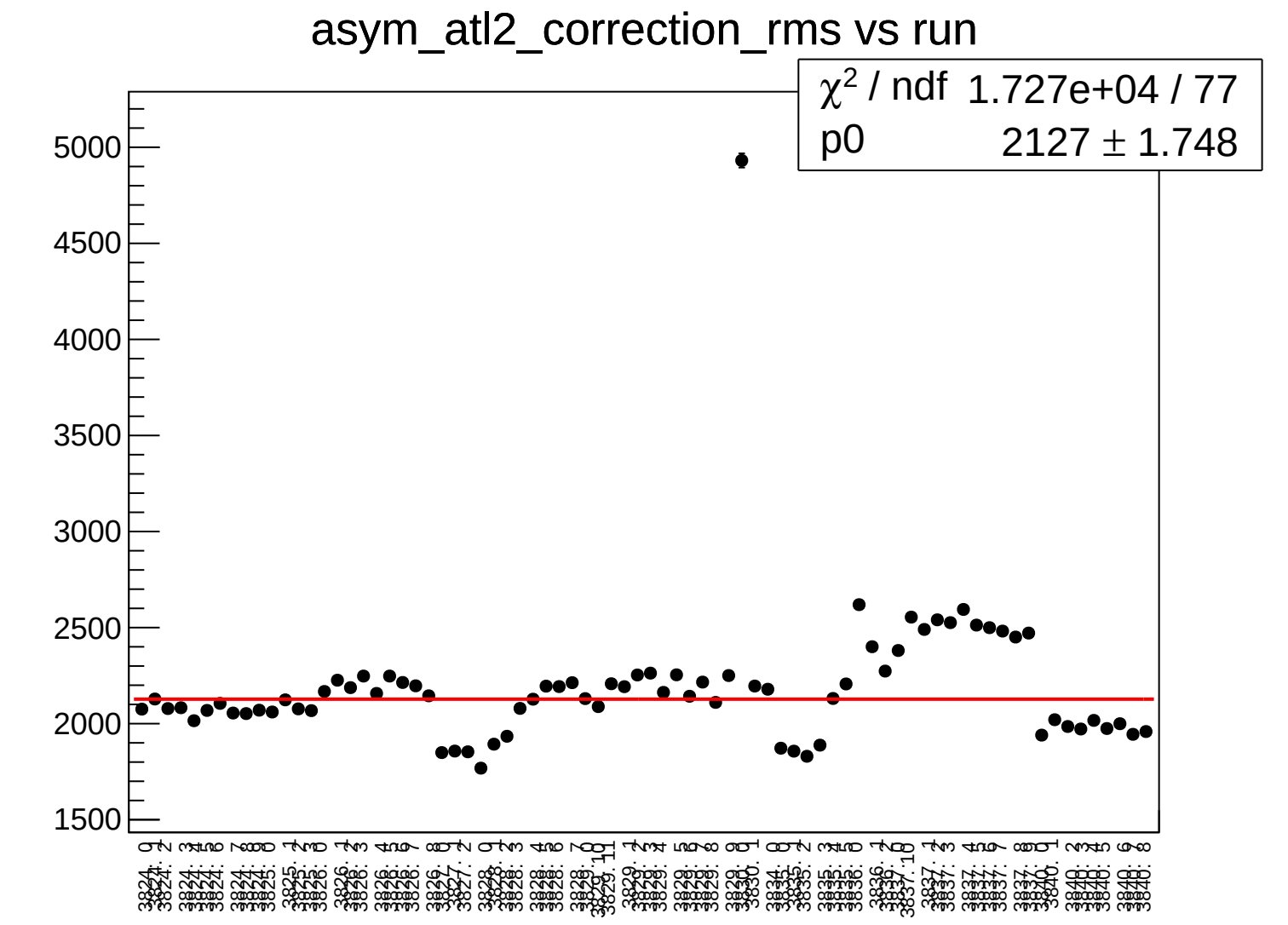

reg_asym_atl2_mean vs run
χ² / ndf 51.39 / 77
p0 −65.61 ± 434.3
pull
Entries 78
Mean 419.8
Std Dev 391

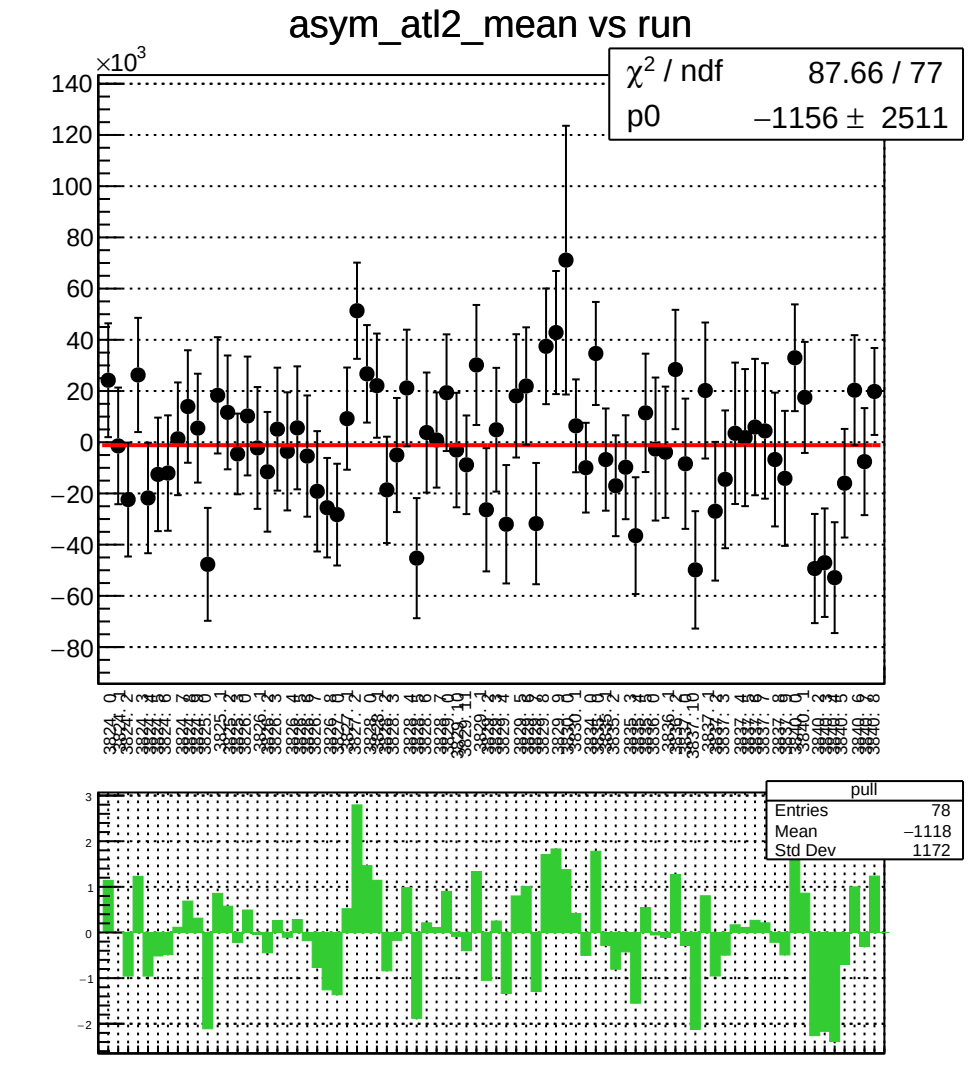

pull1D
Entries 78
Mean −0.005337
Std Dev 0.8117

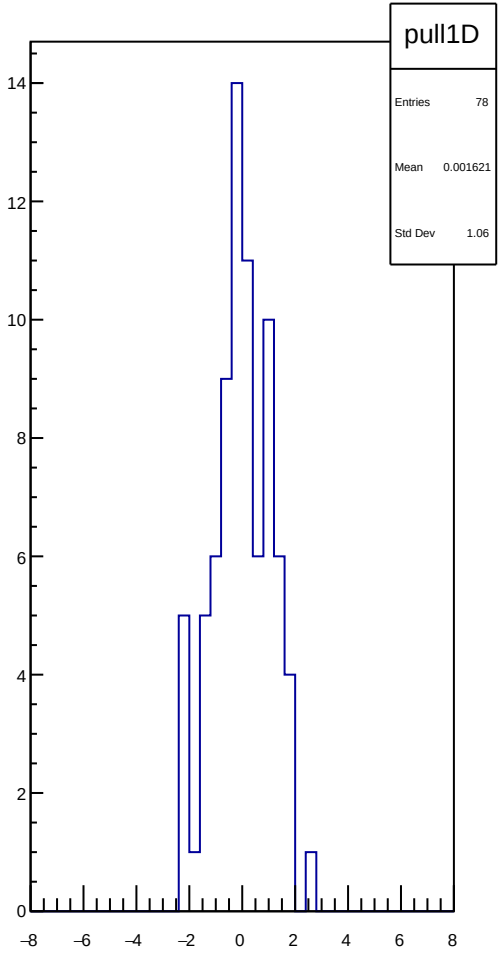

reg_asym_atl2_rms vs run
χ² / ndf 4408 / 77
p0 375.3 ± 0.3071
700
650
600
550
500
450
400
350

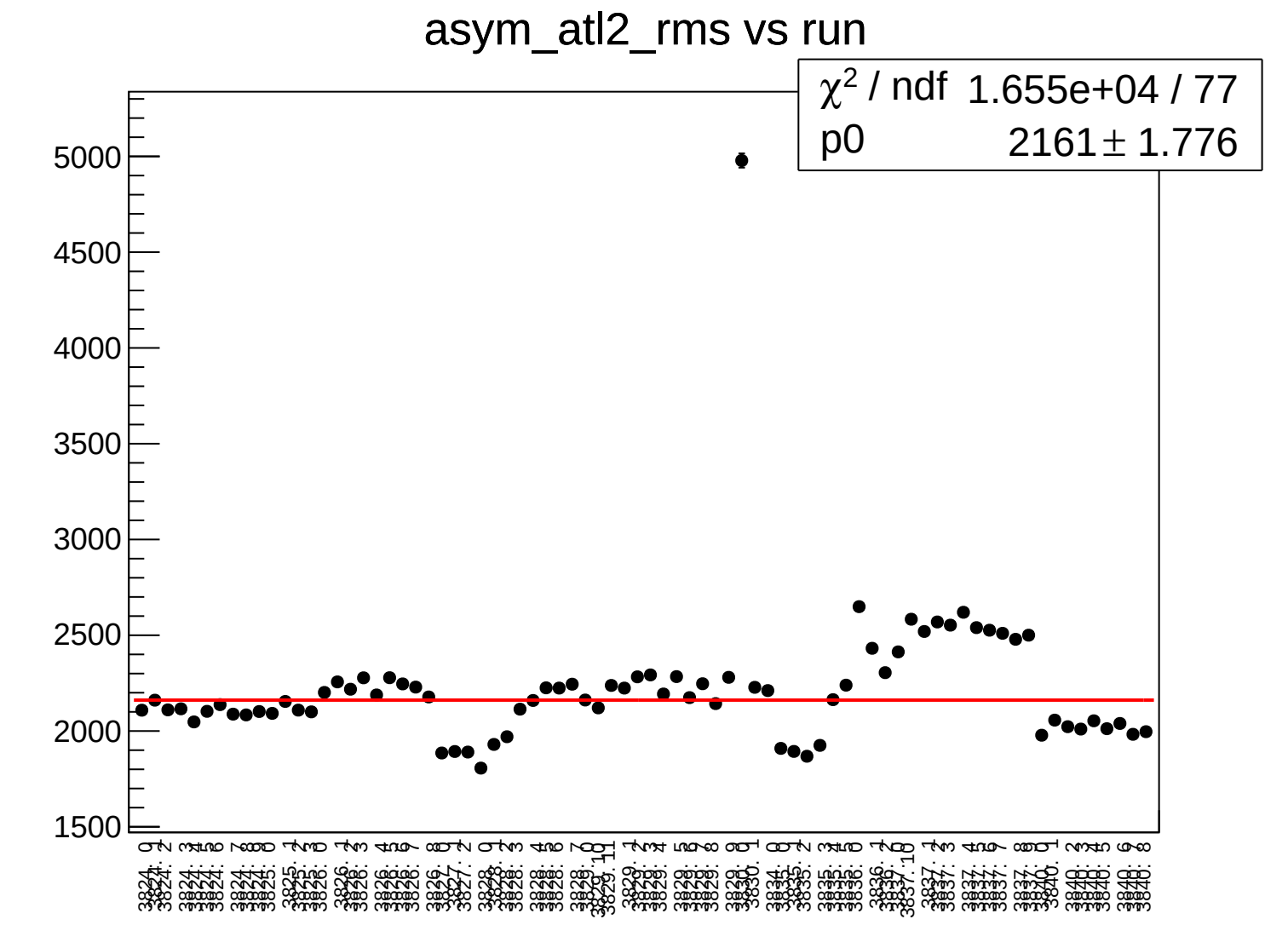

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 86.57 / 77
p0 892.9 ± 2472
pull
Entries 78
Mean 912.5
Std Dev 850.6

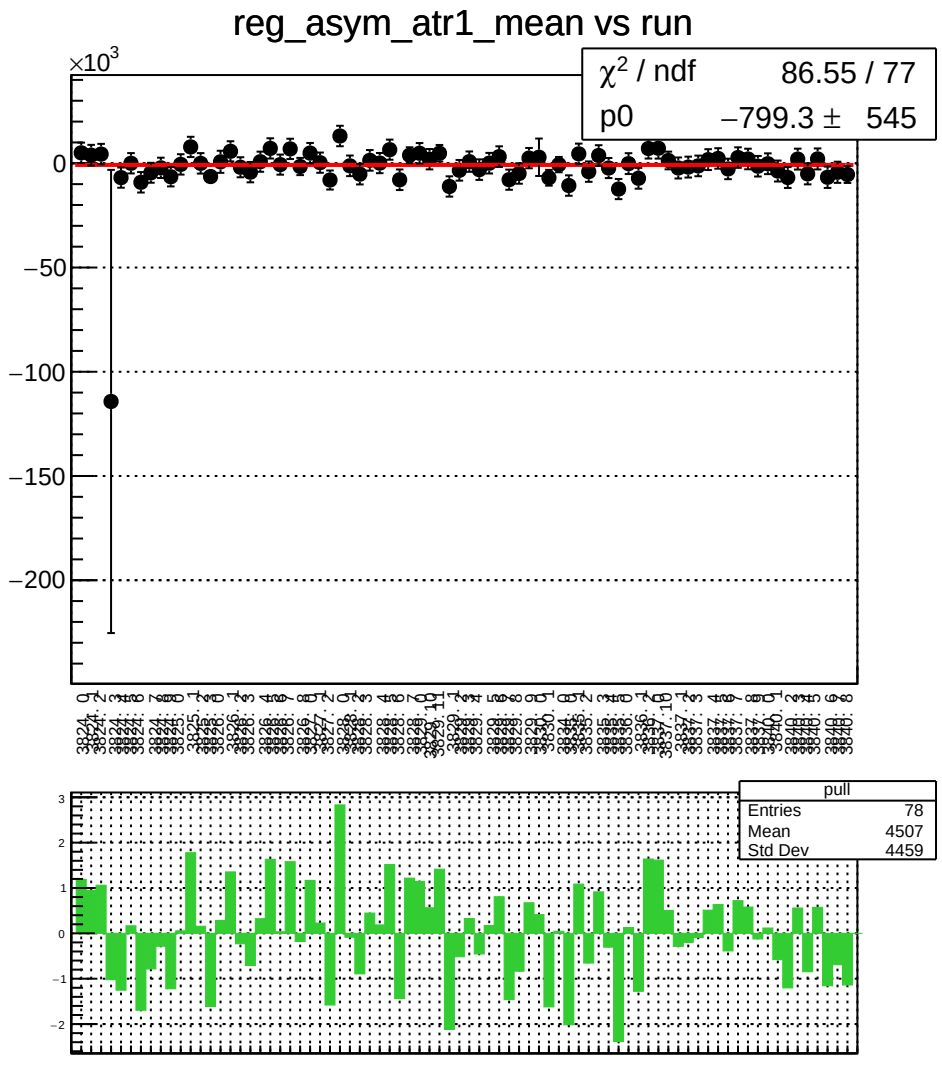

pull1D
Entries 78
Mean 0.00174
Std Dev 1.053

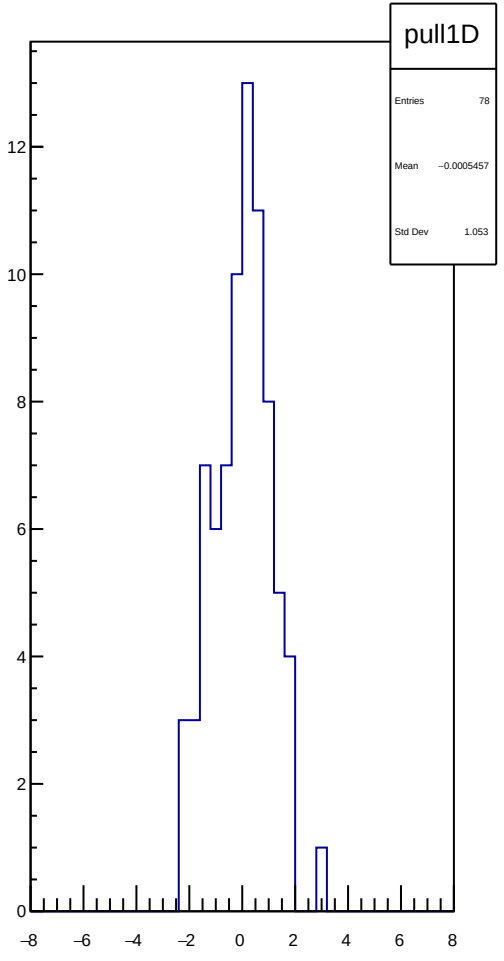

asym_atl2_correction_rms vs run
χ² / ndf 1.727e+04 / 77
p0 2127 ± 1.748
5000
4500
4000
3500
3000
2500
2000
1500

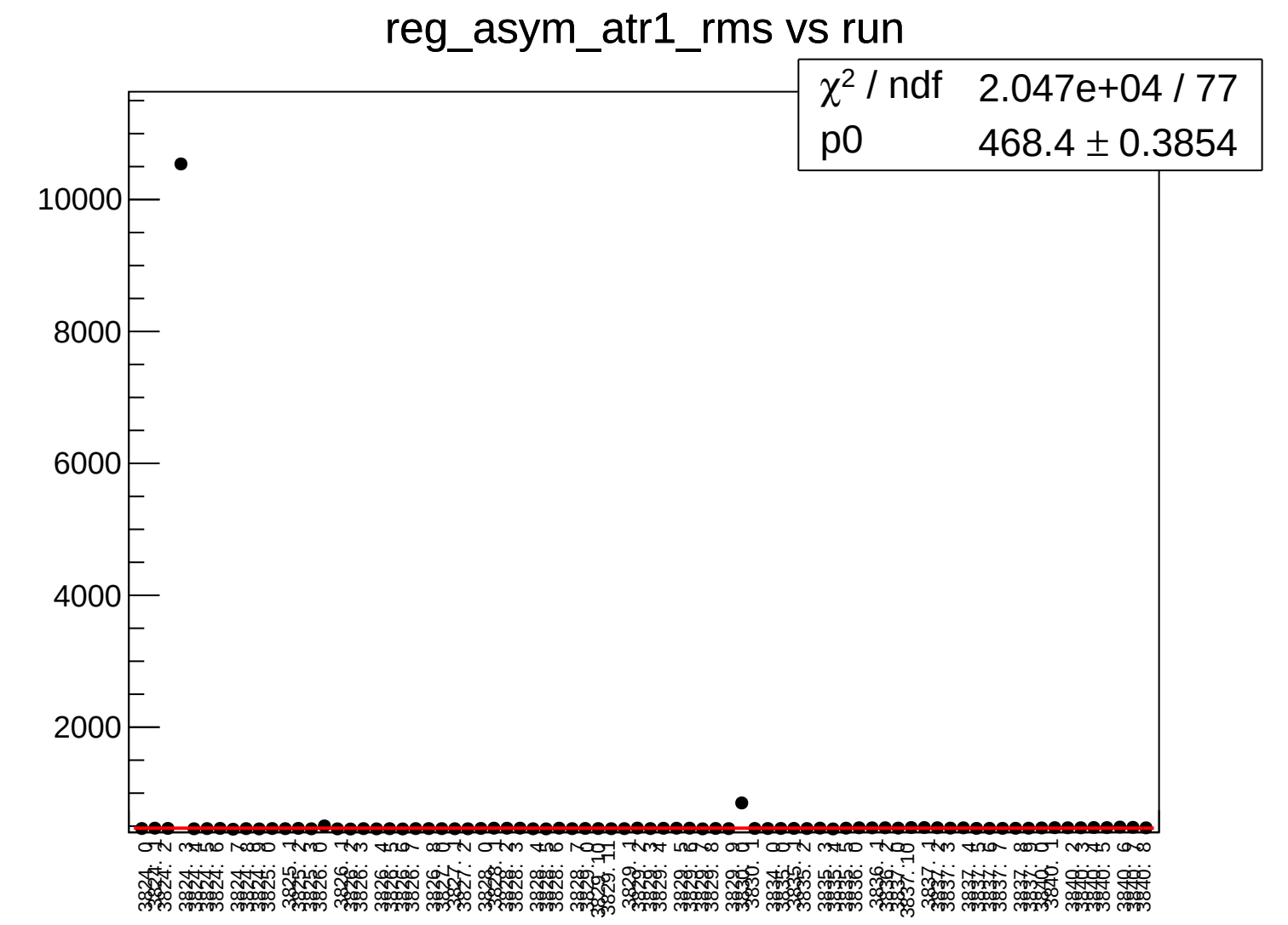

asym_atl2_mean vs run
×10^3
χ^2 / ndf 87.66 / 77
p0 −1156 ± 2511
pull
Entries 78
Mean −1118
Std Dev 1172

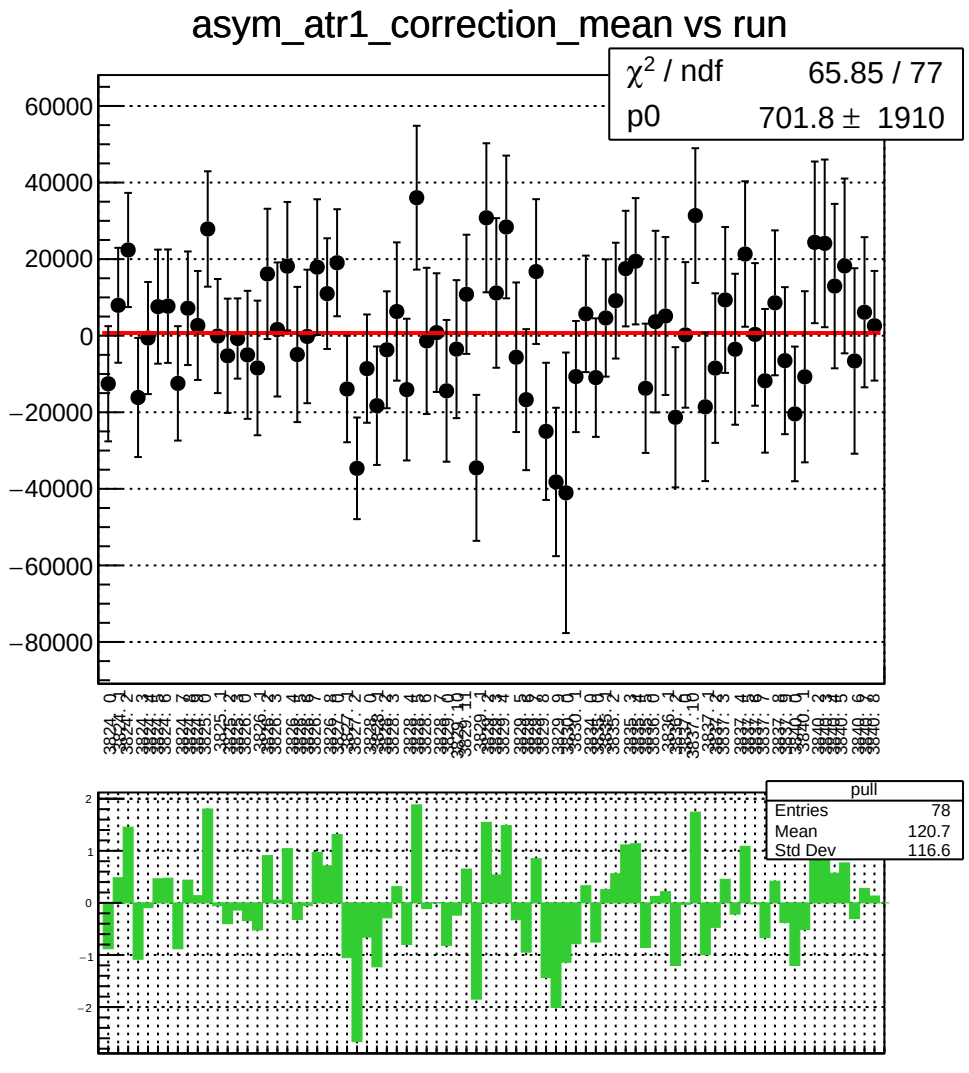

pull1D
Entries 78
Mean 0.001621
Std Dev 1.06

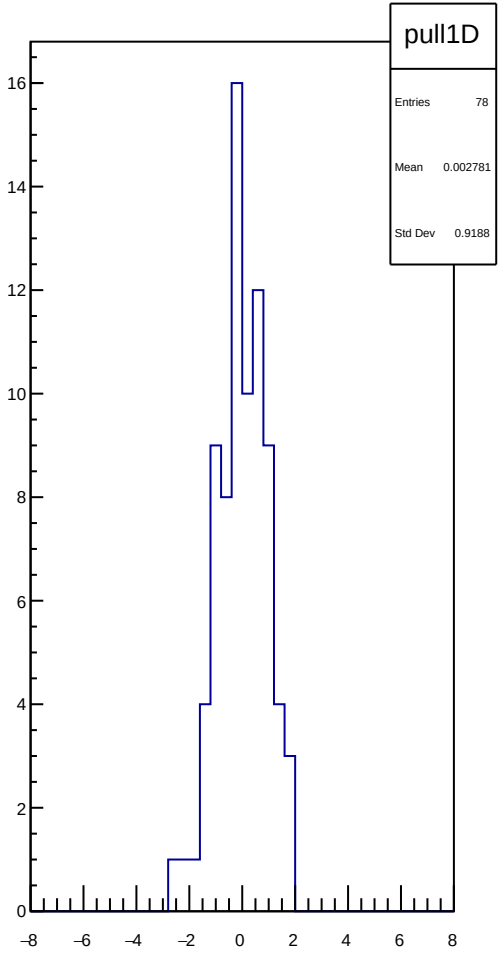

asym_atl2_rms vs run
χ² / ndf 1.655e+04 / 77
p0 2161 ± 1.776
5000
4500
4000
3500
3000
2500
2000
1500

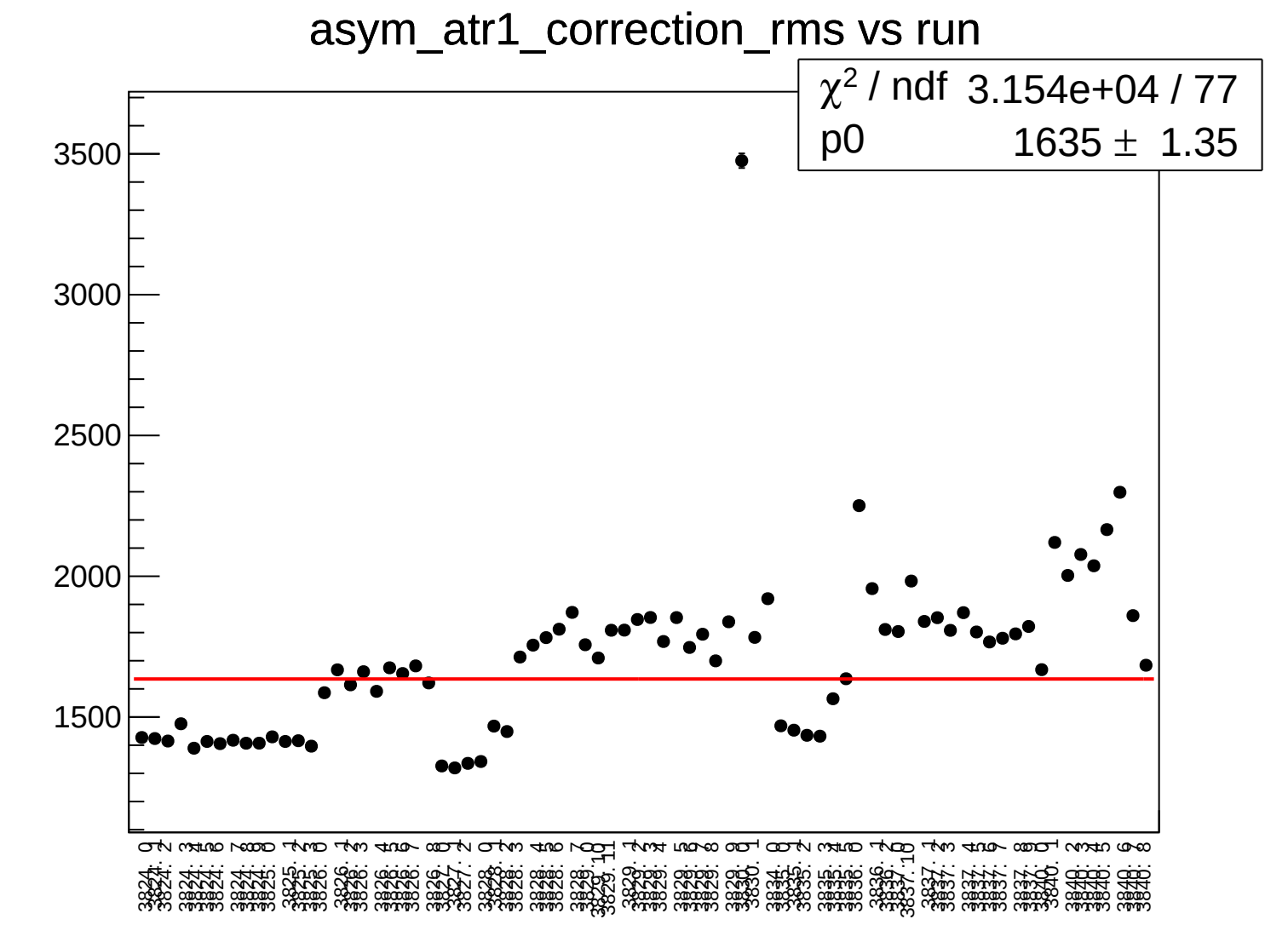

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 86.55 / 77
p0 −799.3 ± 545
0
−50
−100
−150
−200
pull
Entries 78
Mean 4507
Std Dev 4459
3
2
1
0
−1
−2

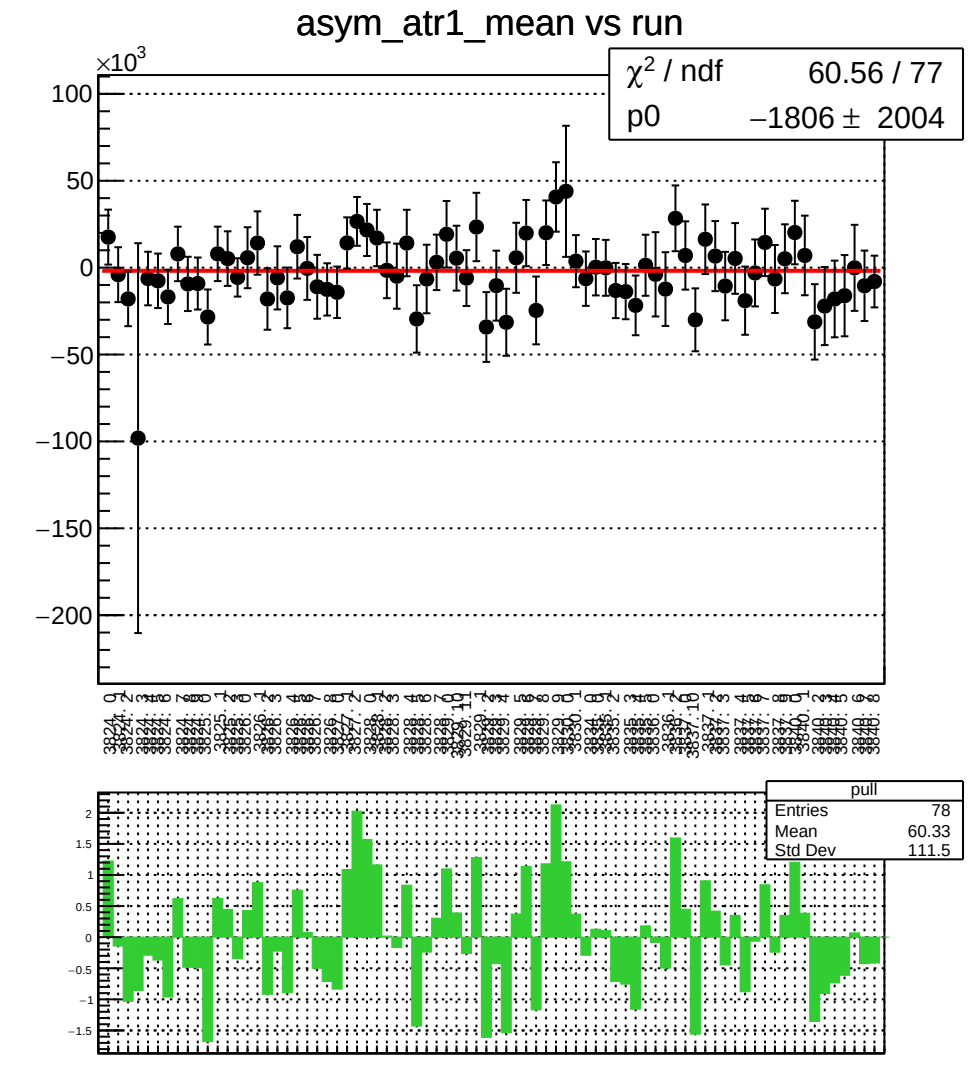

pull1D
Entries 78
Mean −0.0005457
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

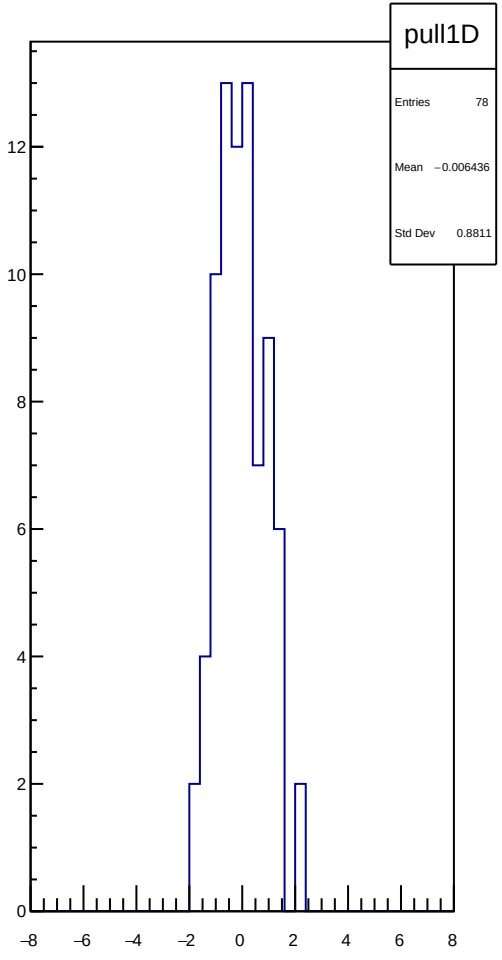

reg_asym_atr1_rms vs run
χ² / ndf 2.047e+04 / 77
p0 468.4 ± 0.3854
10000
8000
6000
4000
2000

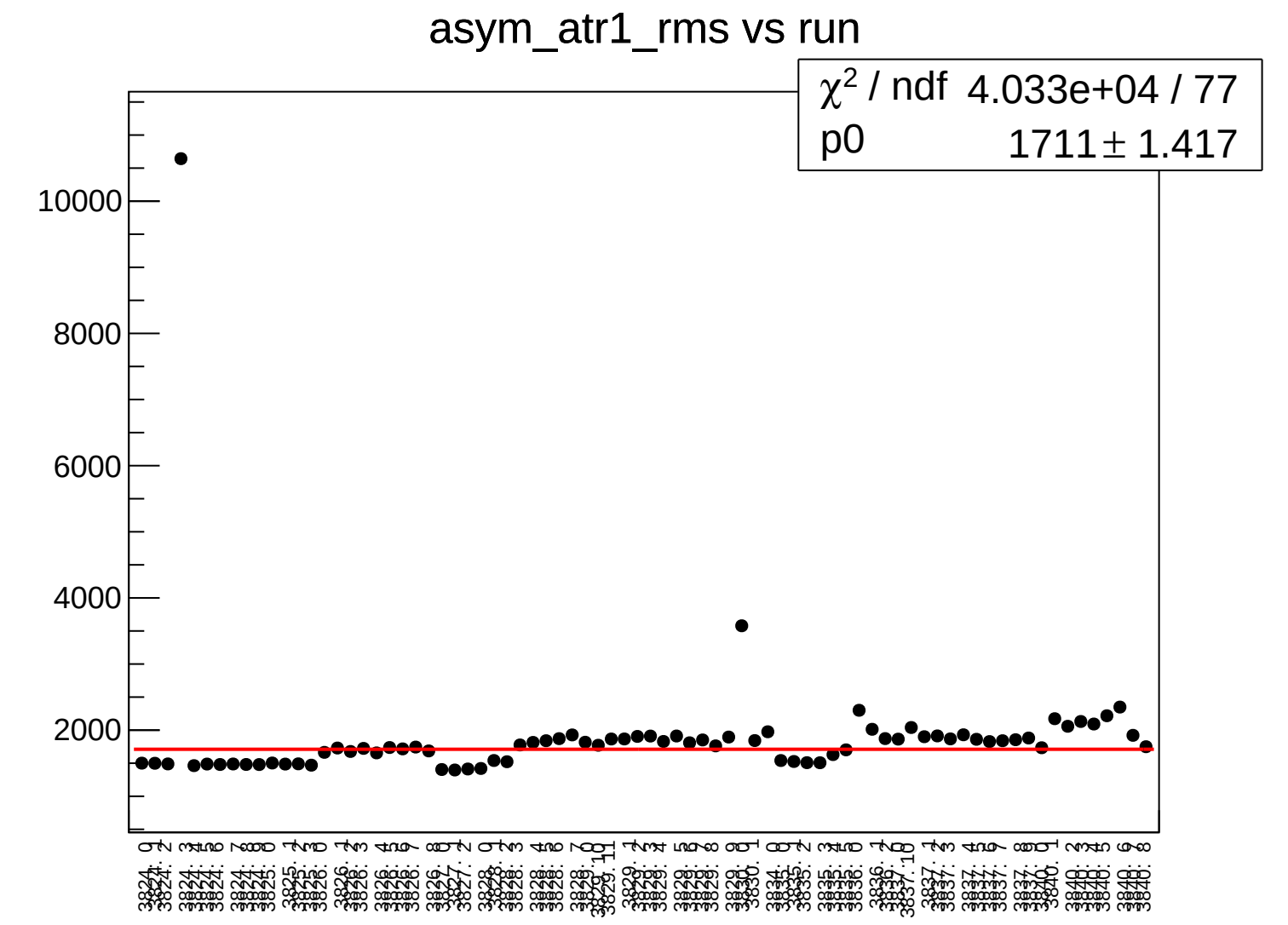

asym_atr1_correction_mean vs run
χ² / ndf 65.85 / 77
p0 701.8 ± 1910
pull
Entries 78
Mean 120.7
Std Dev 116.6

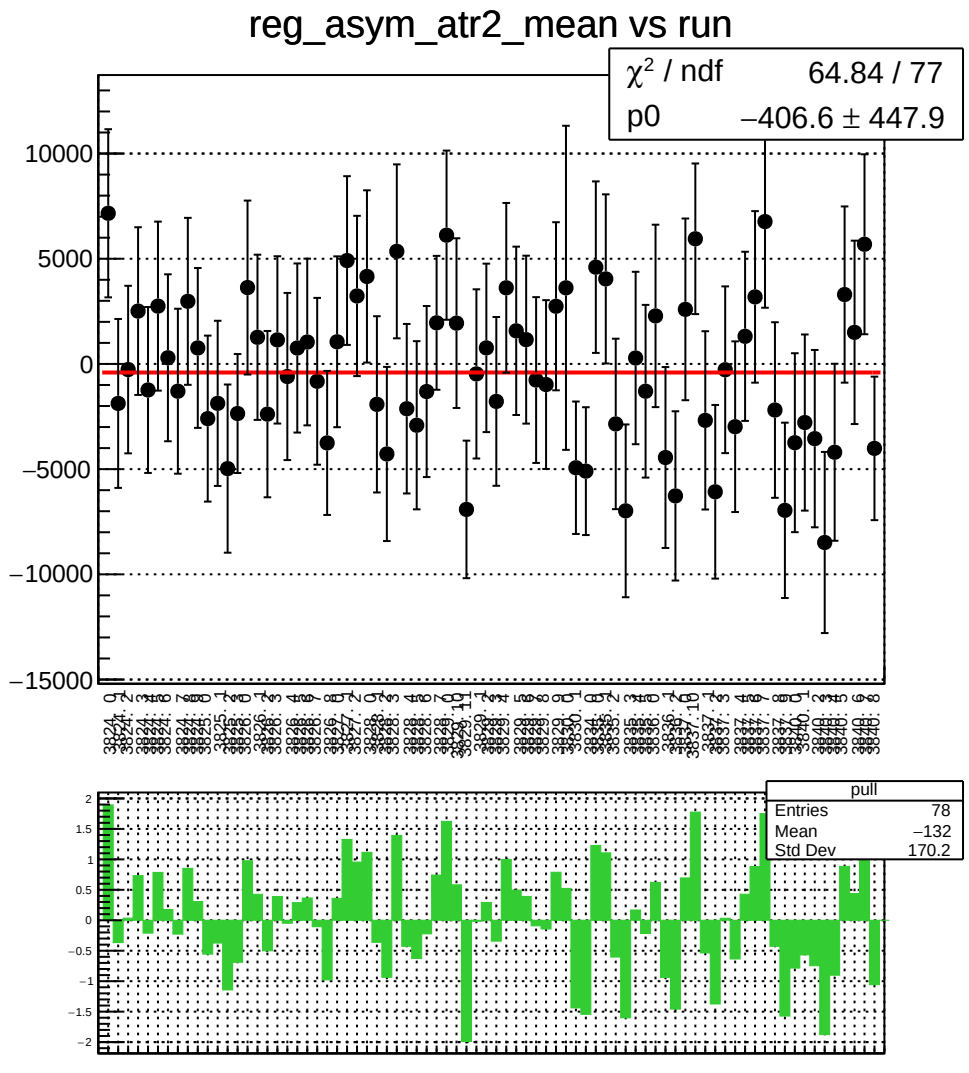

pull1D
Entries 78
Mean 0.002781
Std Dev 0.9188

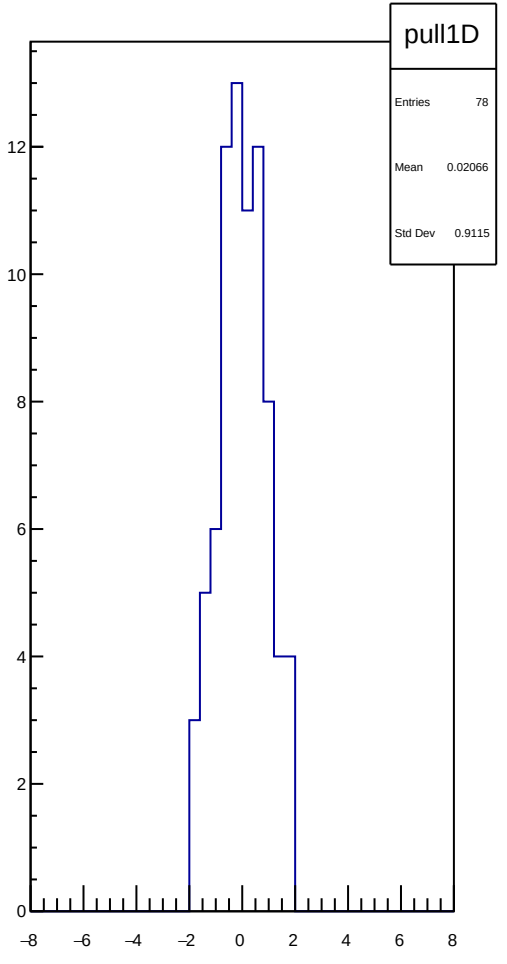

asym_atr1_correction_rms vs run
χ² / ndf 3.154e+04 / 77
p0 1635 ± 1.35
3500
3000
2500
2000
1500

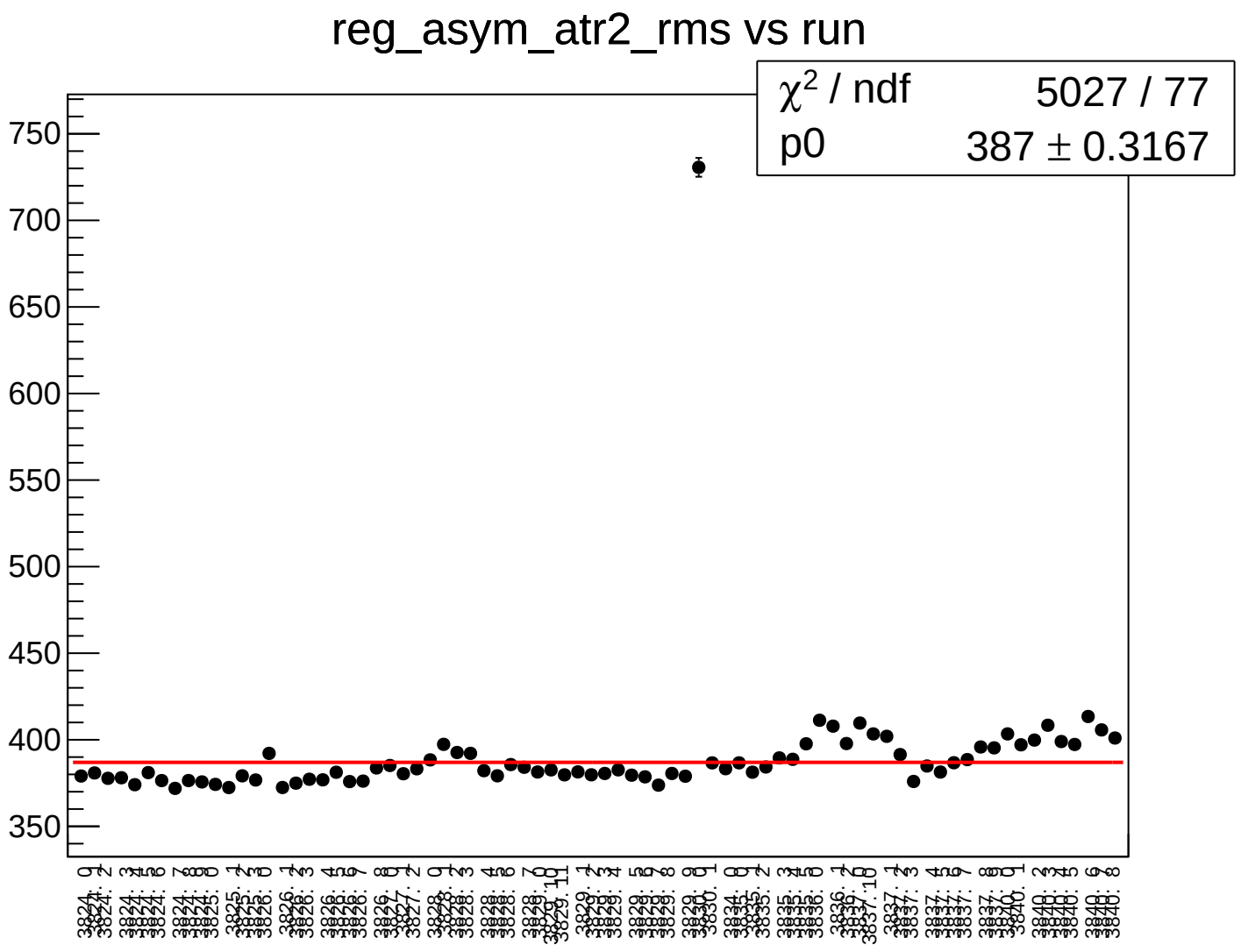

asym_atr1_mean vs run
×10^3
χ² / ndf 60.56 / 77
p0 −1806 ± 2004
pull
Entries 78
Mean 60.33
Std Dev 111.5

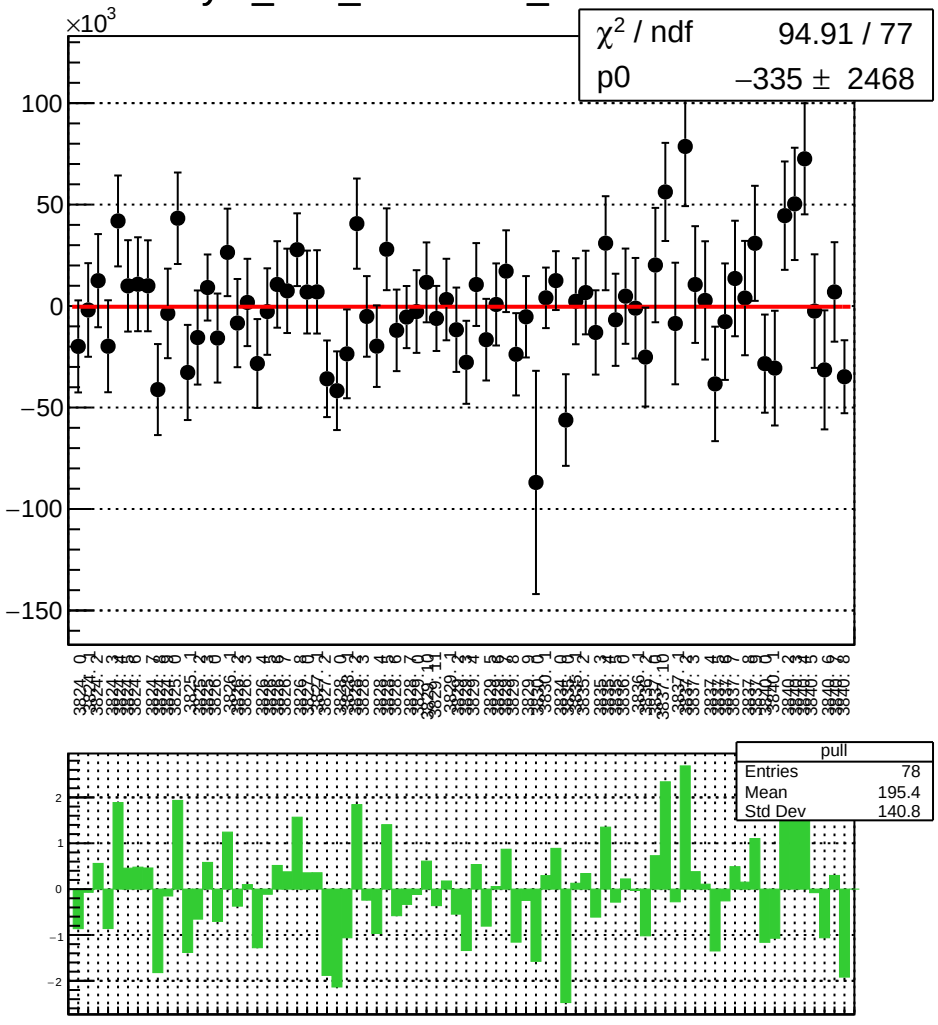

pull1D
Entries 78
Mean −0.006436
Std Dev 0.8811

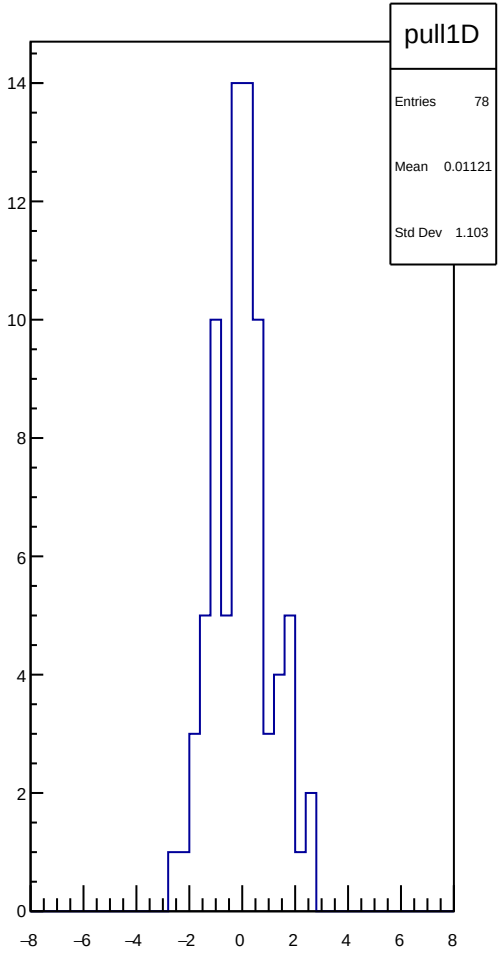

asym_atr1_rms vs run
χ² / ndf 4.033e+04 / 77
p0 1711 ± 1.417
10000
8000
6000
4000
2000

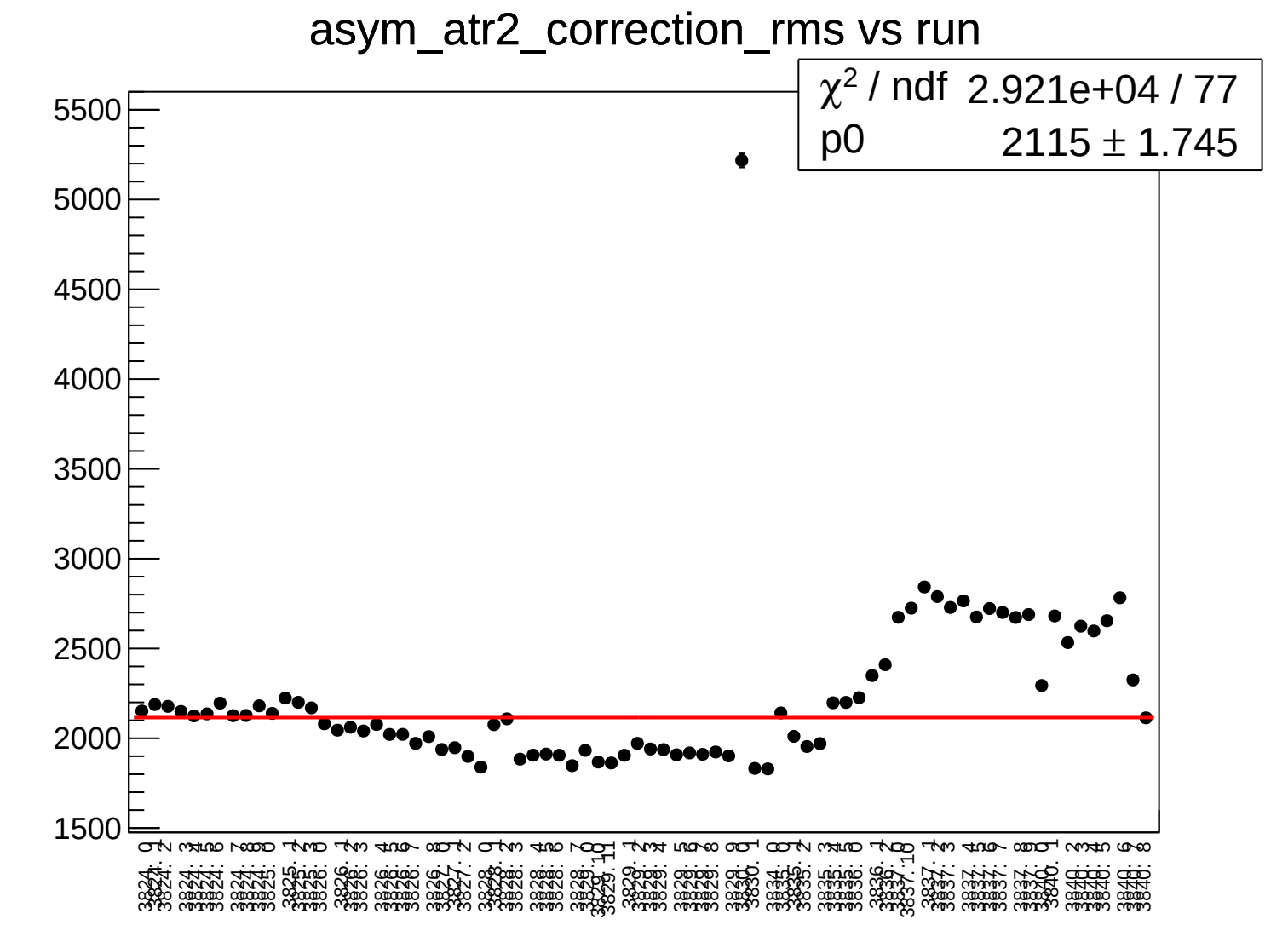

reg_asym_atr2_mean vs run
χ² / ndf 64.84 / 77
p0 −406.6 ± 447.9
pull
Entries 78
Mean −132
Std Dev 170.2

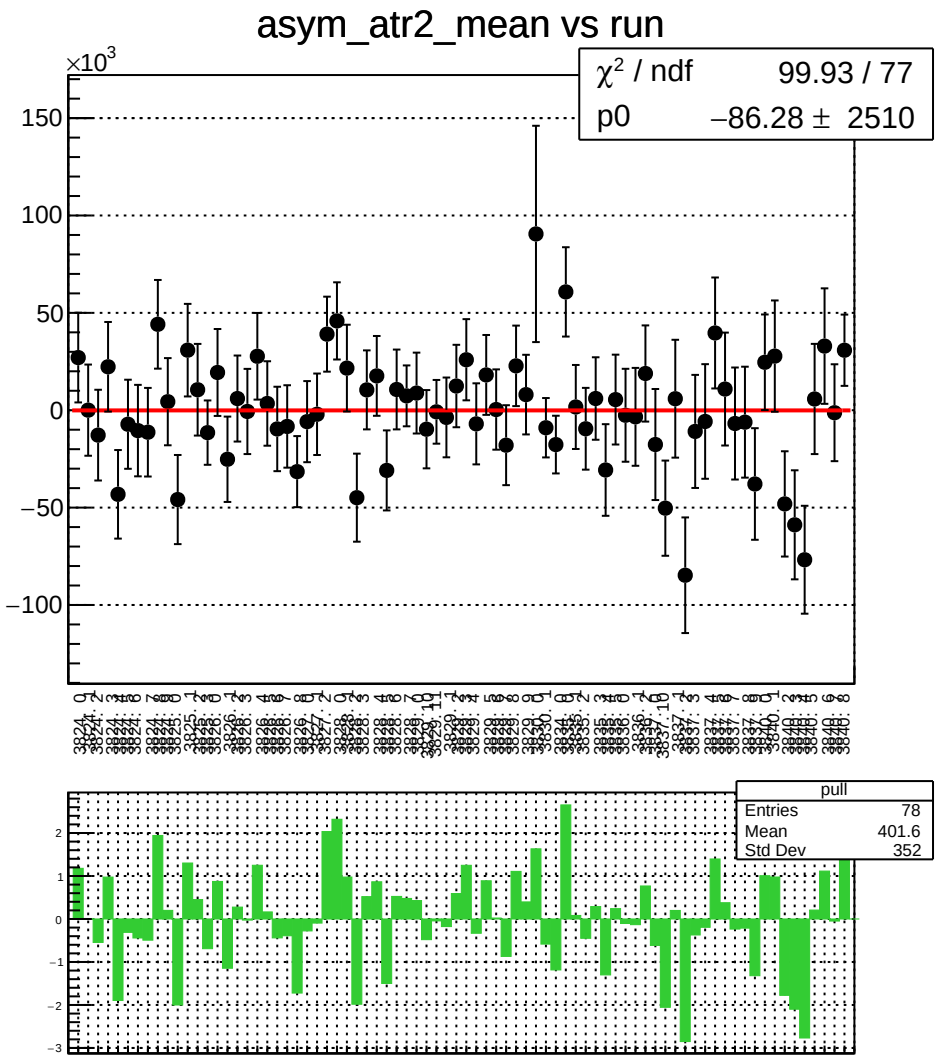

pull1D
Entries 78
Mean 0.02066
Std Dev 0.9115

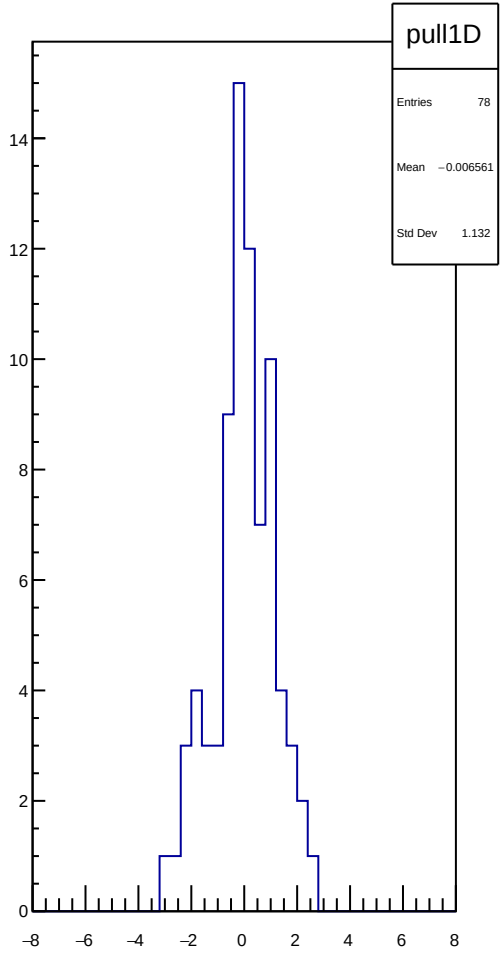

reg_asym_atr2_rms vs run
χ² / ndf 5027 / 77
p0 387 ± 0.3167
750
700
650
600
550
500
450
400
350

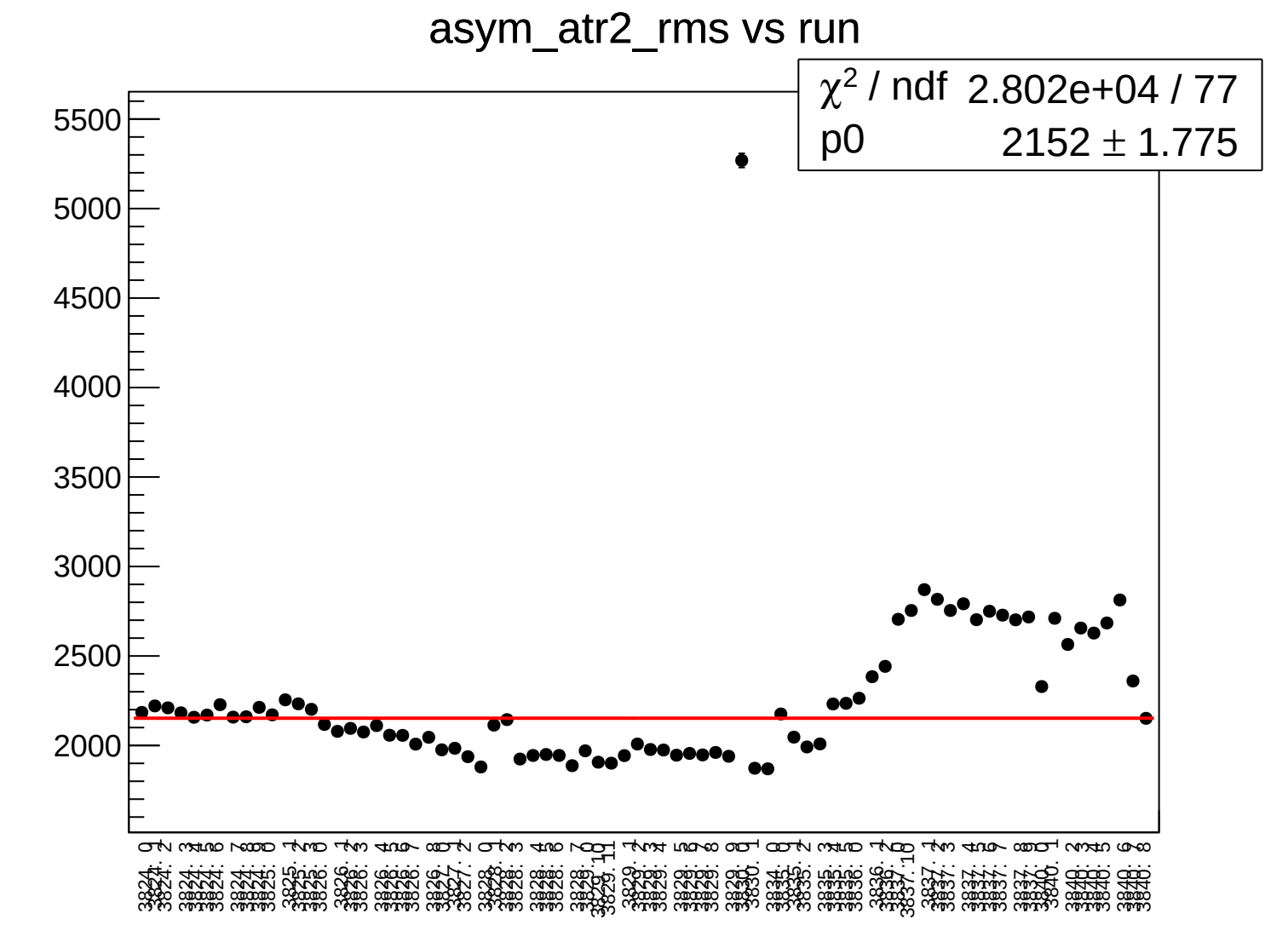

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 94.91 / 77
p0 −335 ± 2468
100
50
0
−50
−100
−150
pull
Entries 78
Mean 195.4
Std Dev 140.8
2
1
0
−1
−2

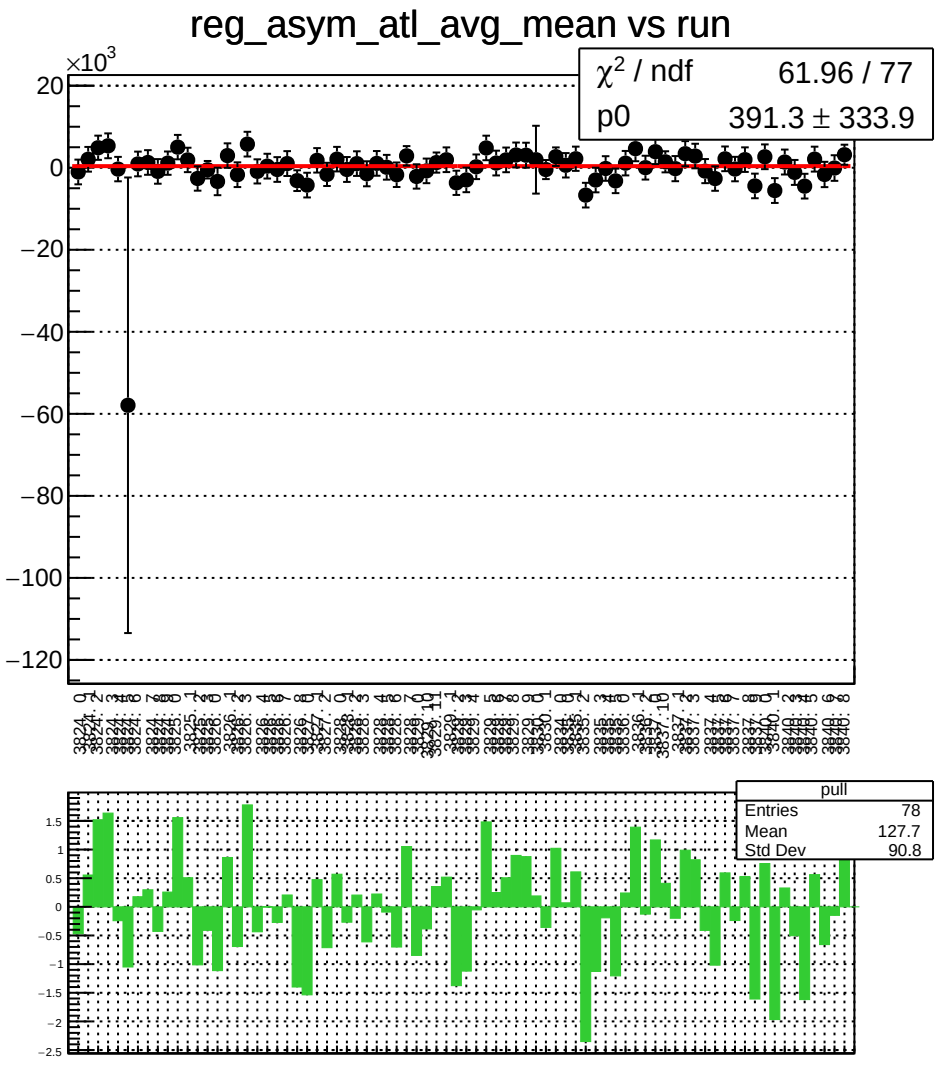

pull1D
Entries 78
Mean 0.01121
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

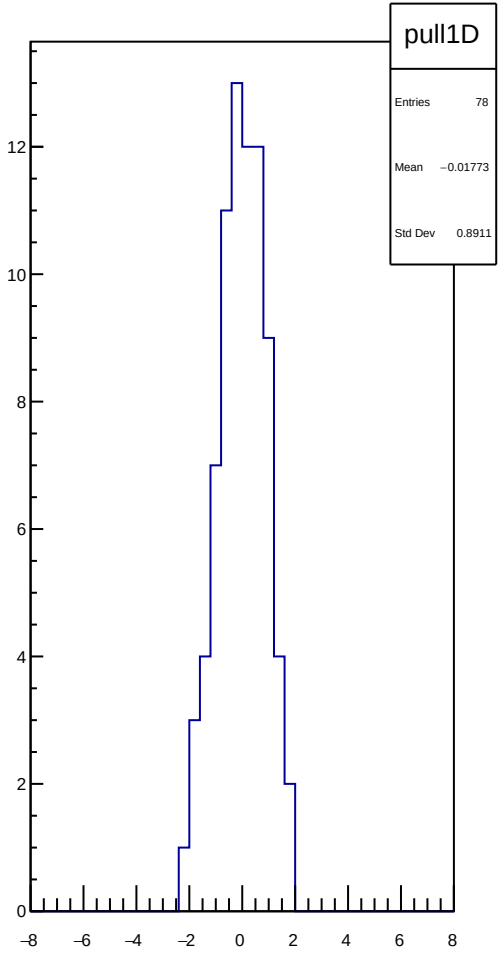

asym_atr2_correction_rms vs run
χ² / ndf 2.921e+04 / 77
p0 2115 ± 1.745
5500
5000
4500
4000
3500
3000
2500
2000
1500

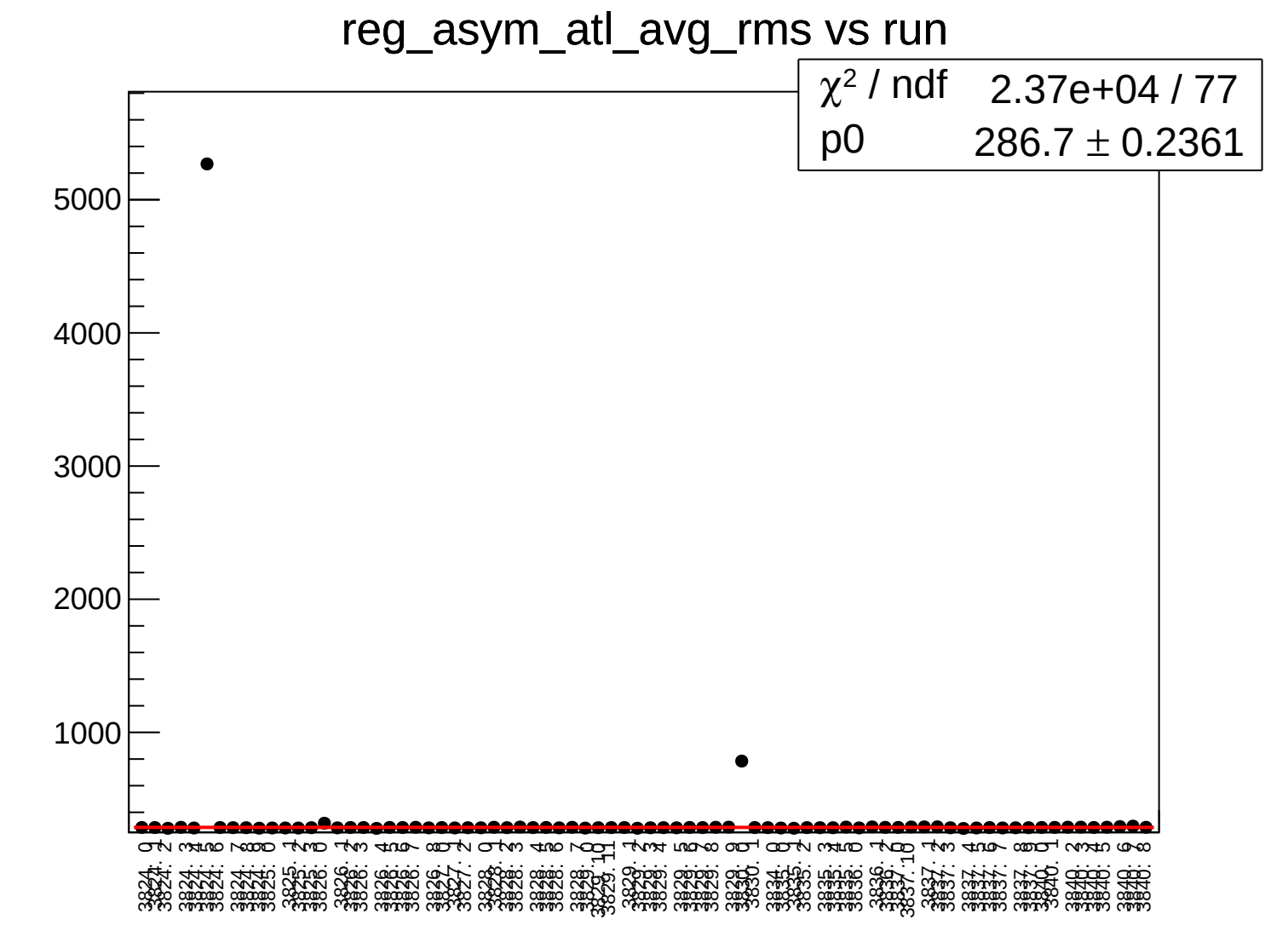

asym_atr2_mean vs run
×10^3
χ² / ndf 99.93 / 77
p0 −86.28 ± 2510
150
100
50
0
−50
−100
pull
Entries 78
Mean 401.6
Std Dev 352
2
1
0
−1
−2
−3

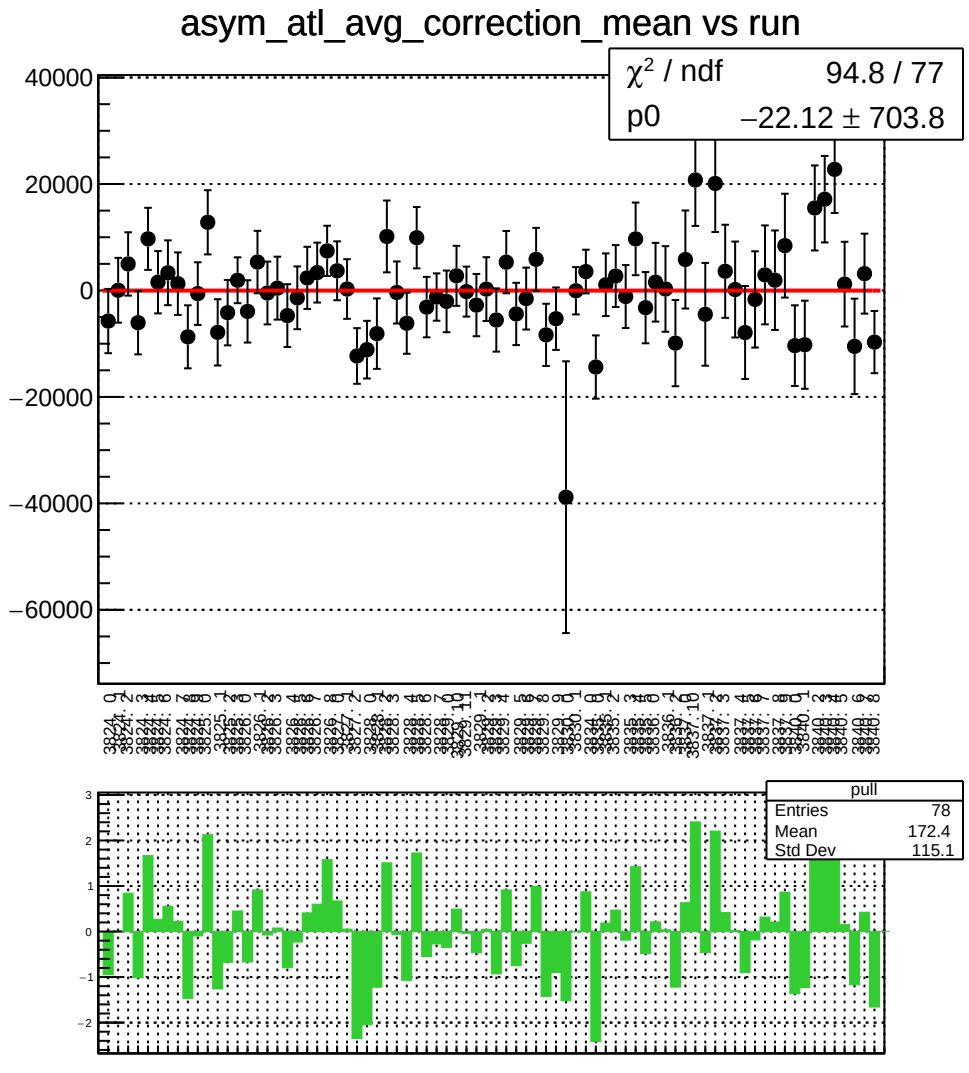

pull1D
Entries 78
Mean −0.006561
Std Dev 1.132
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

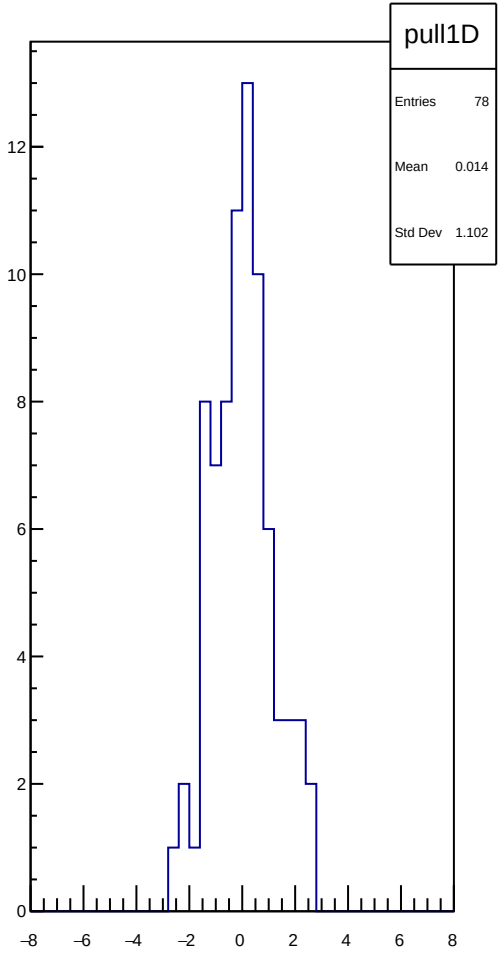

asym_atr2_rms vs run
χ² / ndf 2.802e+04 / 77
p0 2152 ± 1.775
5500
5000
4500
4000
3500
3000
2500
2000

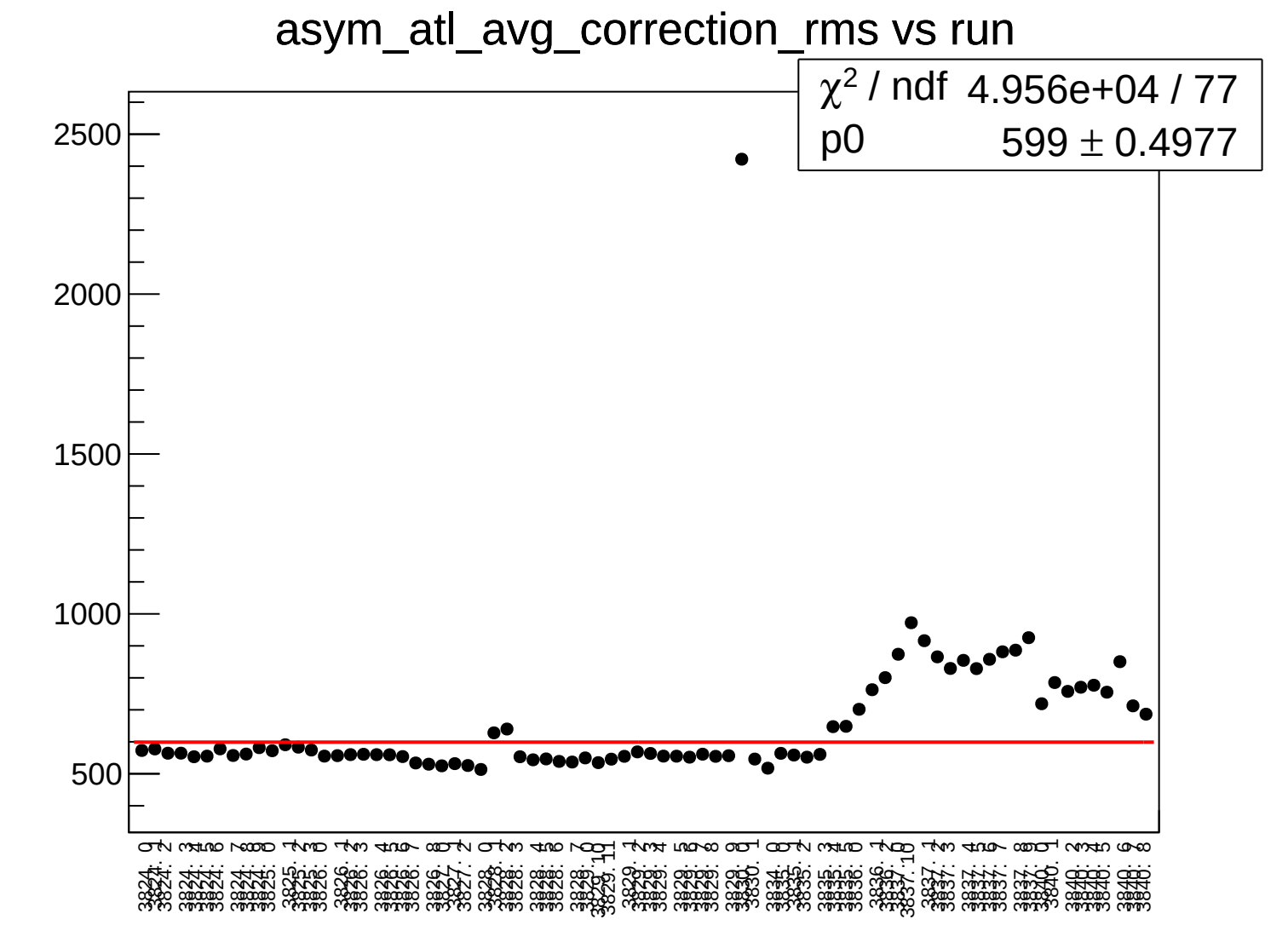

reg_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 61.96 / 77
p0 391.3 ± 333.9
pull
Entries 78
Mean 127.7
Std Dev 90.8

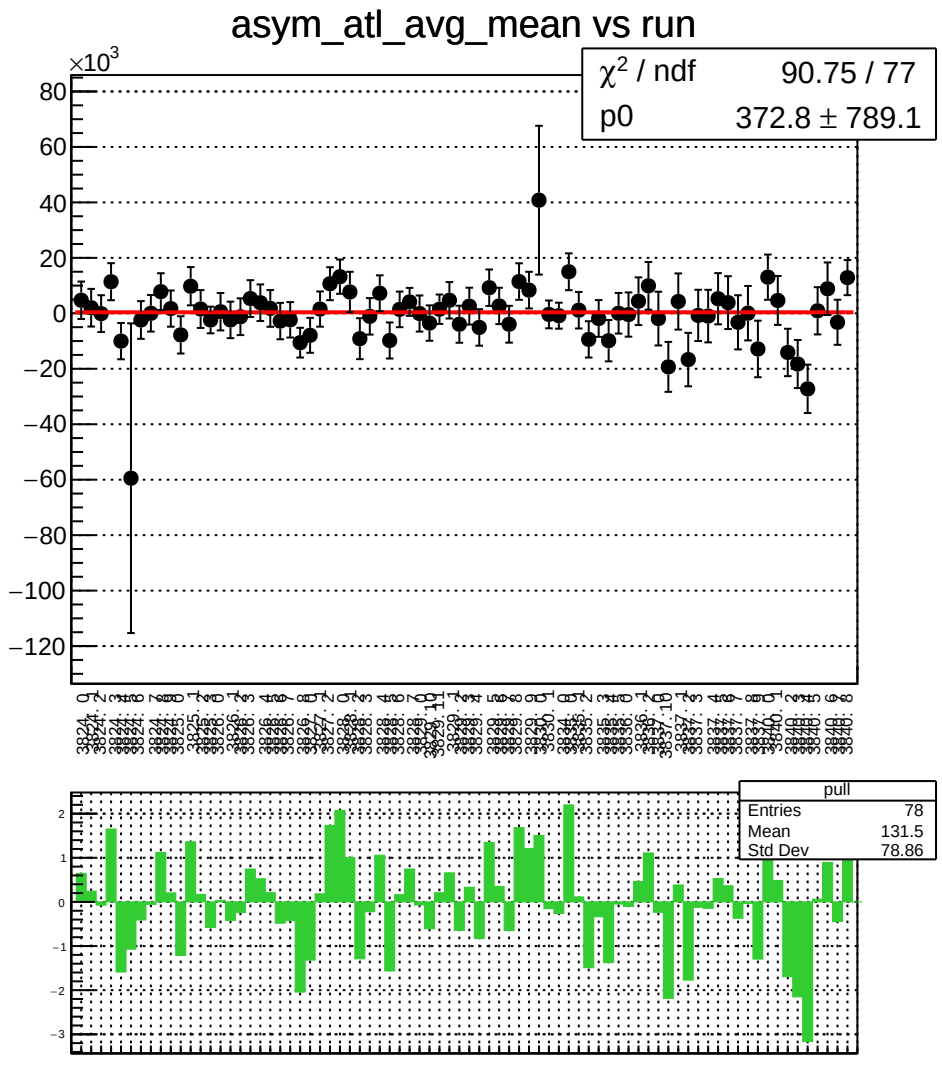

pull1D
Entries 78
Mean −0.01773
Std Dev 0.8911

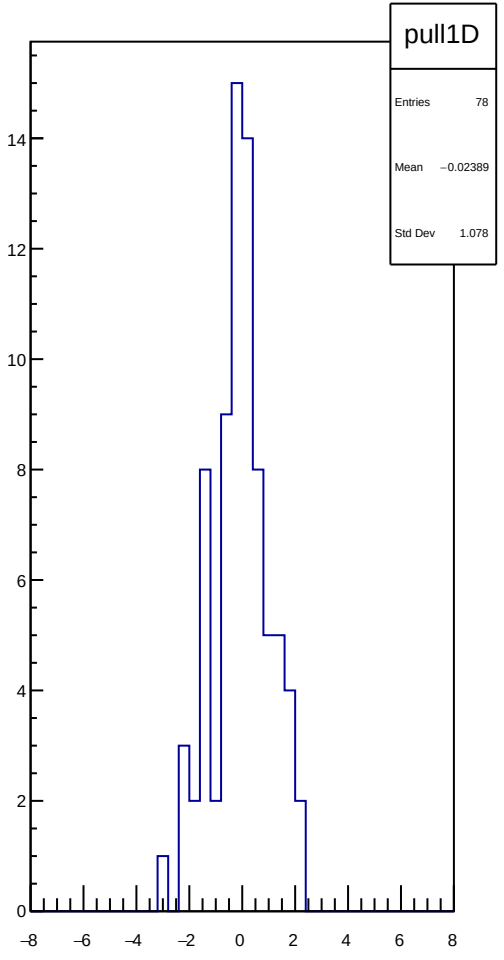

reg_asym_atl_avg_rms vs run
χ² / ndf 2.37e+04 / 77
p0 286.7 ± 0.2361
5000
4000
3000
2000
1000

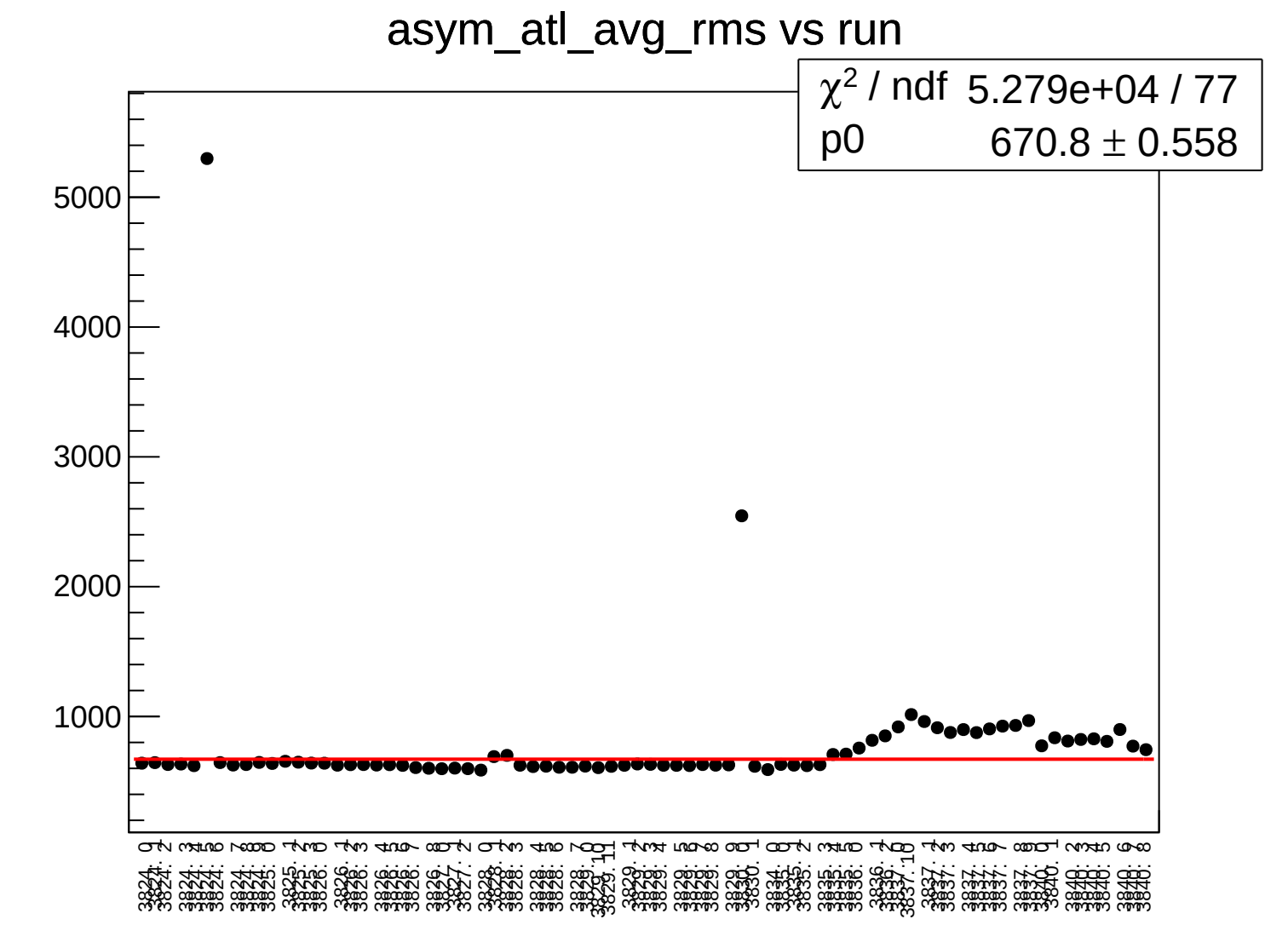

asym_atl_avg_correction_mean vs run
χ² / ndf 94.8 / 77
p0 −22.12 ± 703.8
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean 172.4
Std Dev 115.1
3
2
1
0
−1
−2

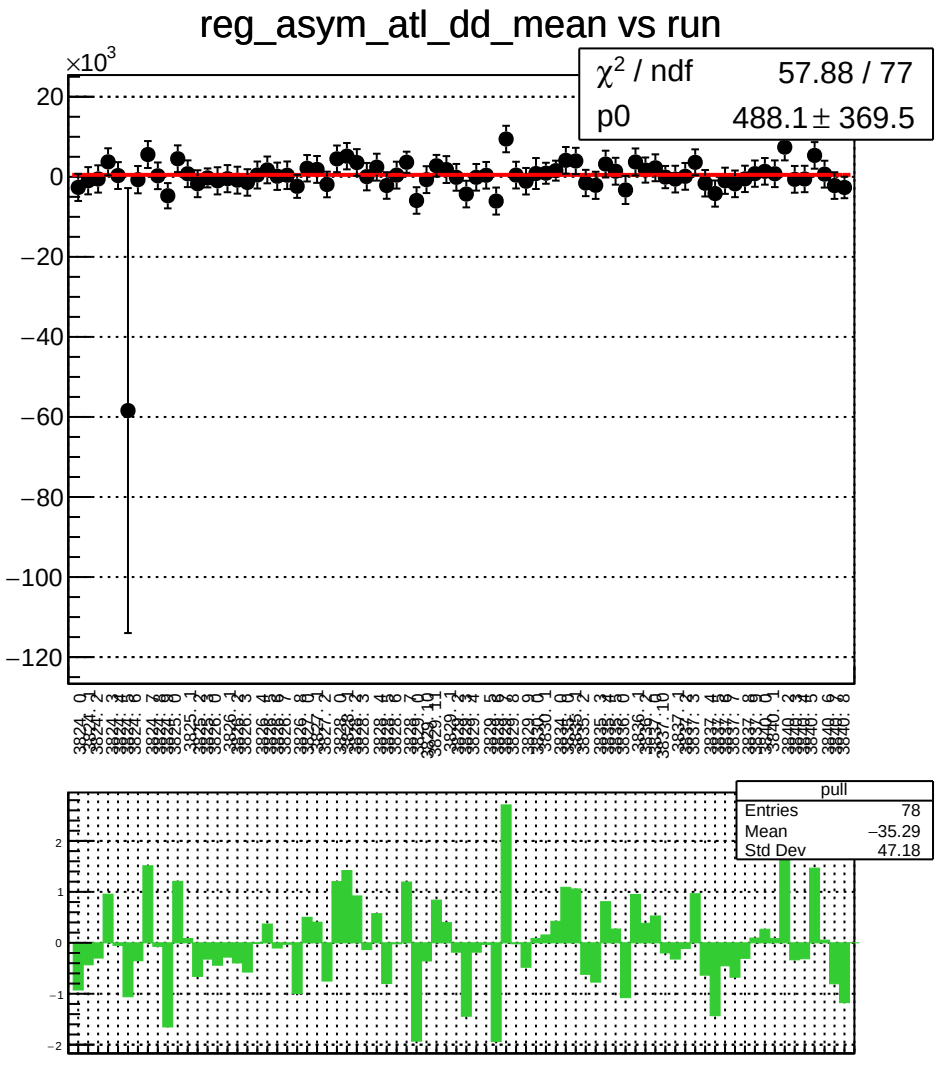

pull1D
Entries 78
Mean 0.014
Std Dev 1.102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

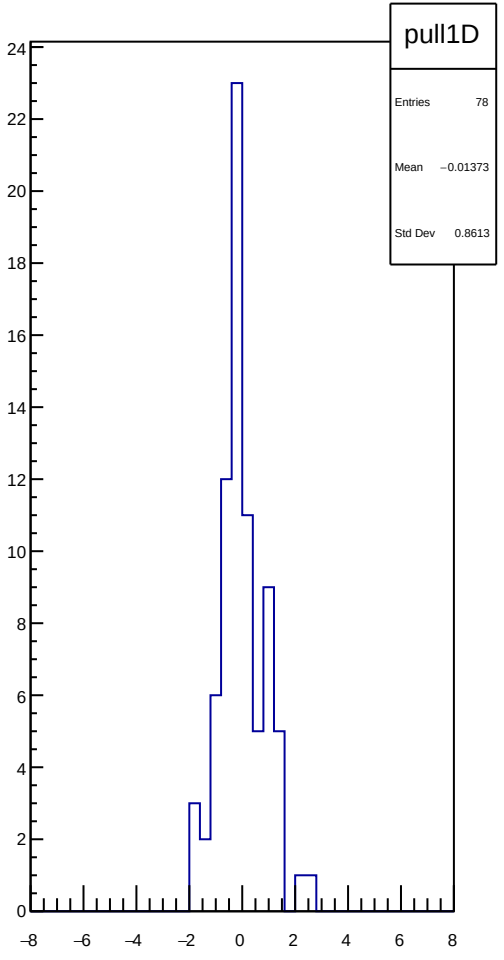

asym_atl_avg_correction_rms vs run
χ² / ndf 4.956e+04 / 77
p0 599 ± 0.4977
2500
2000
1500
1000
500

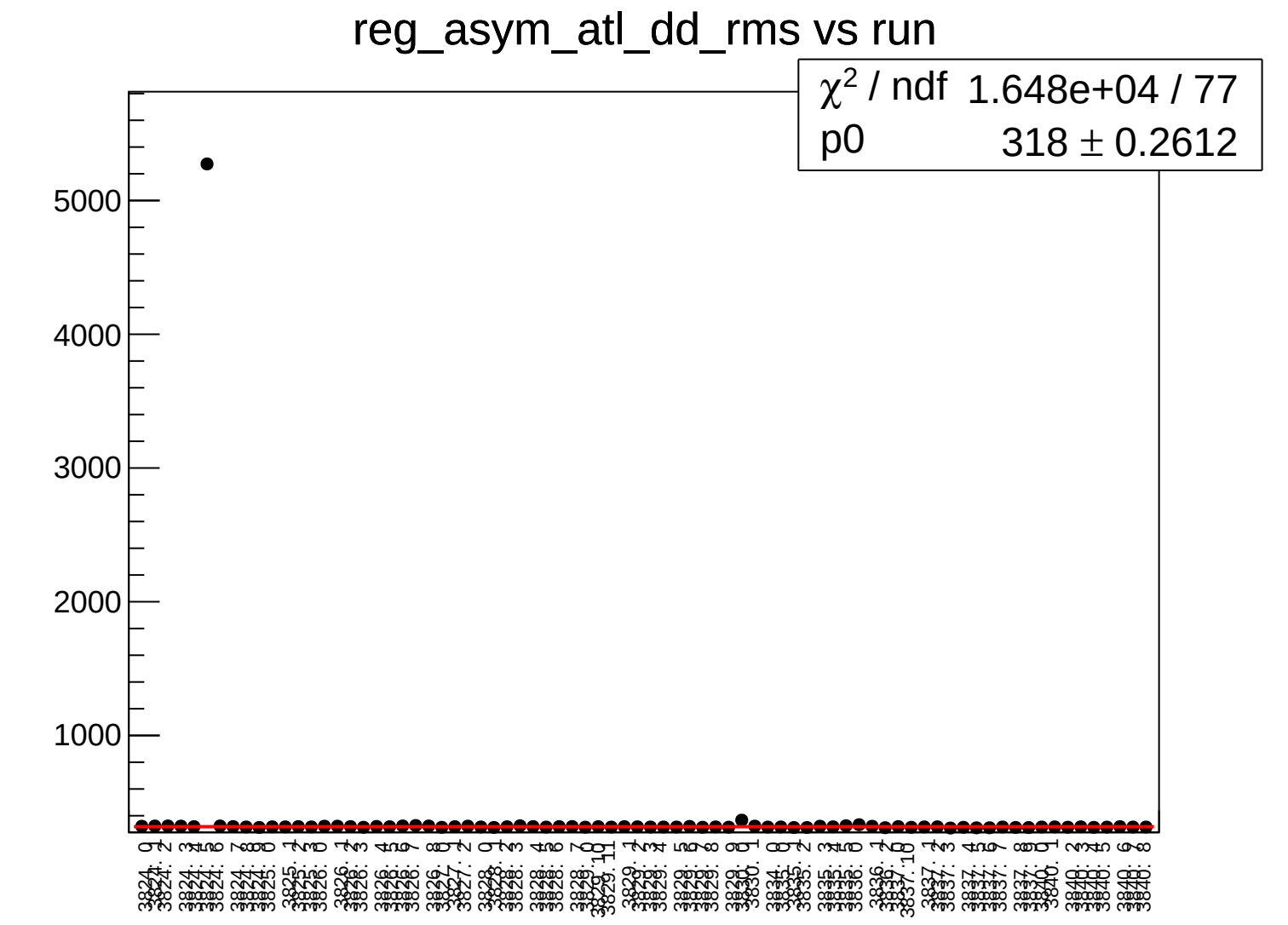

asym_atl_avg_mean vs run
χ² / ndf 90.75 / 77
p0 372.8 ± 789.1
×10³
pull
Entries 78
Mean 131.5
Std Dev 78.86

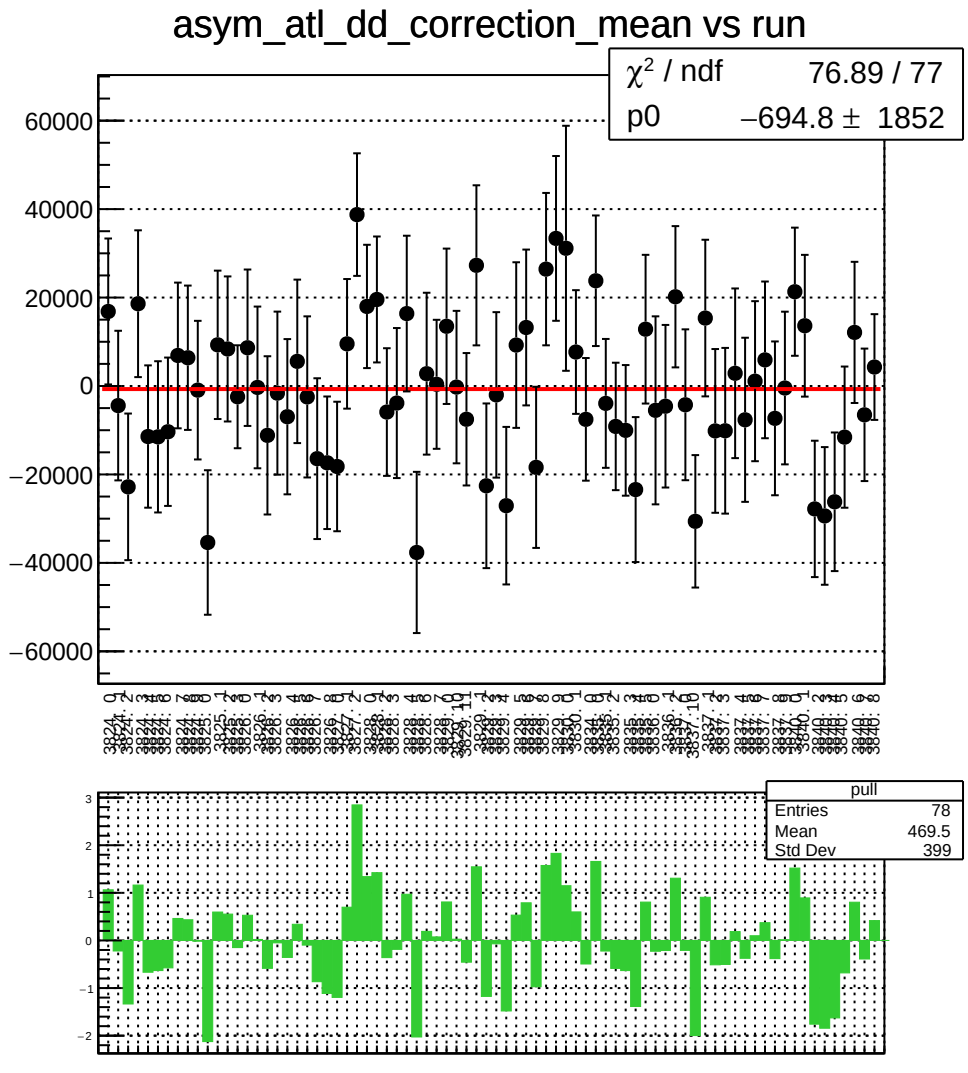

pull1D
Entries 78
Mean −0.02389
Std Dev 1.078

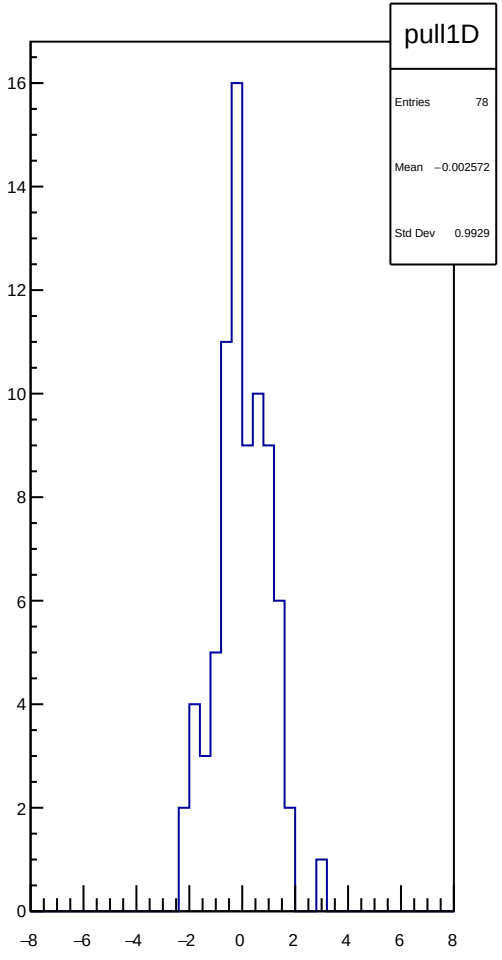

asym_atl_avg_rms vs run
χ² / ndf 5.279e+04 / 77
p0 670.8 ± 0.558
5000
4000
3000
2000
1000

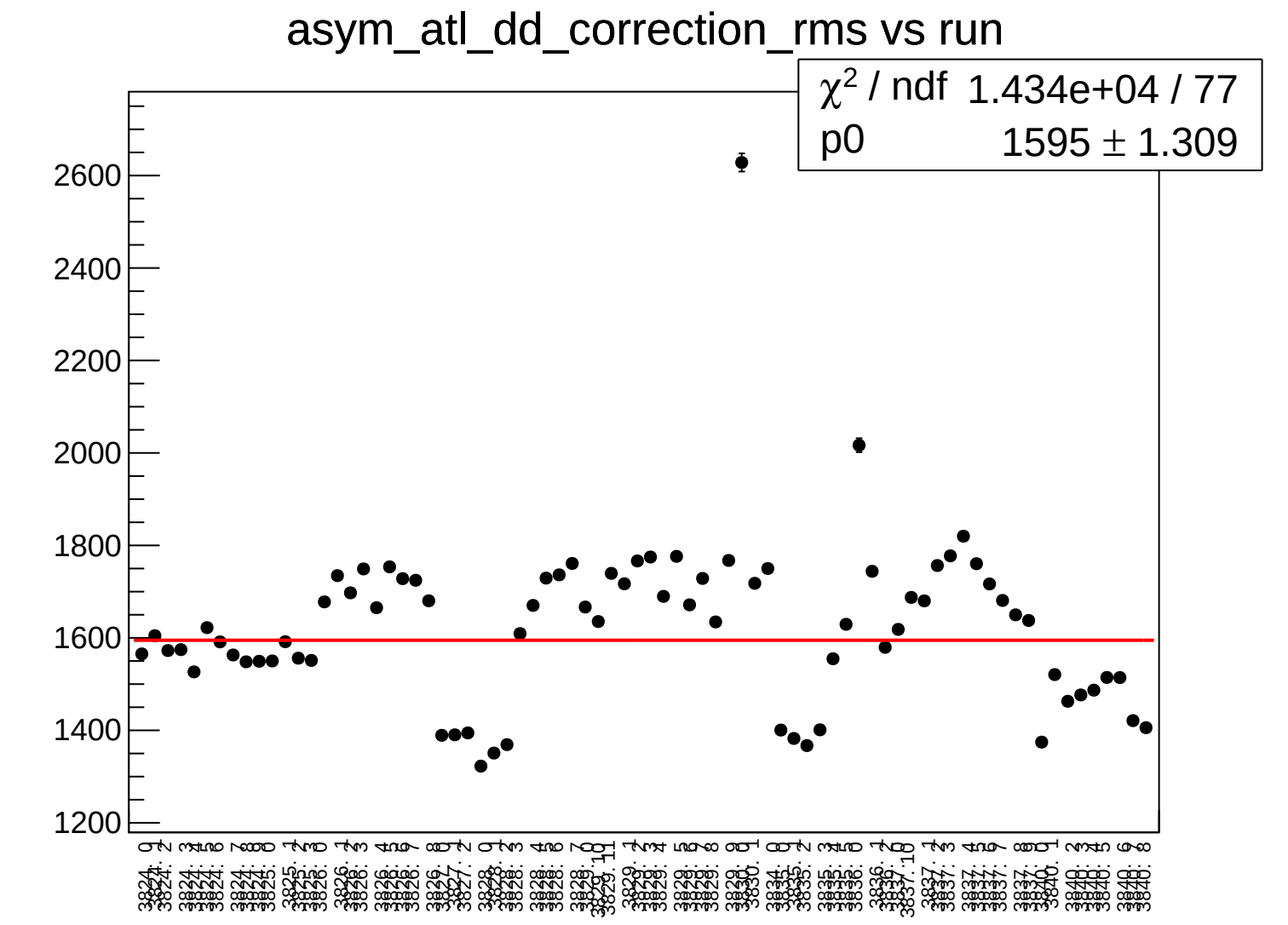

reg_asym_atl_dd_mean vs run
χ² / ndf 57.88 / 77
p0 488.1 ± 369.5
×10³
pull
Entries 78
Mean −35.29
Std Dev 47.18

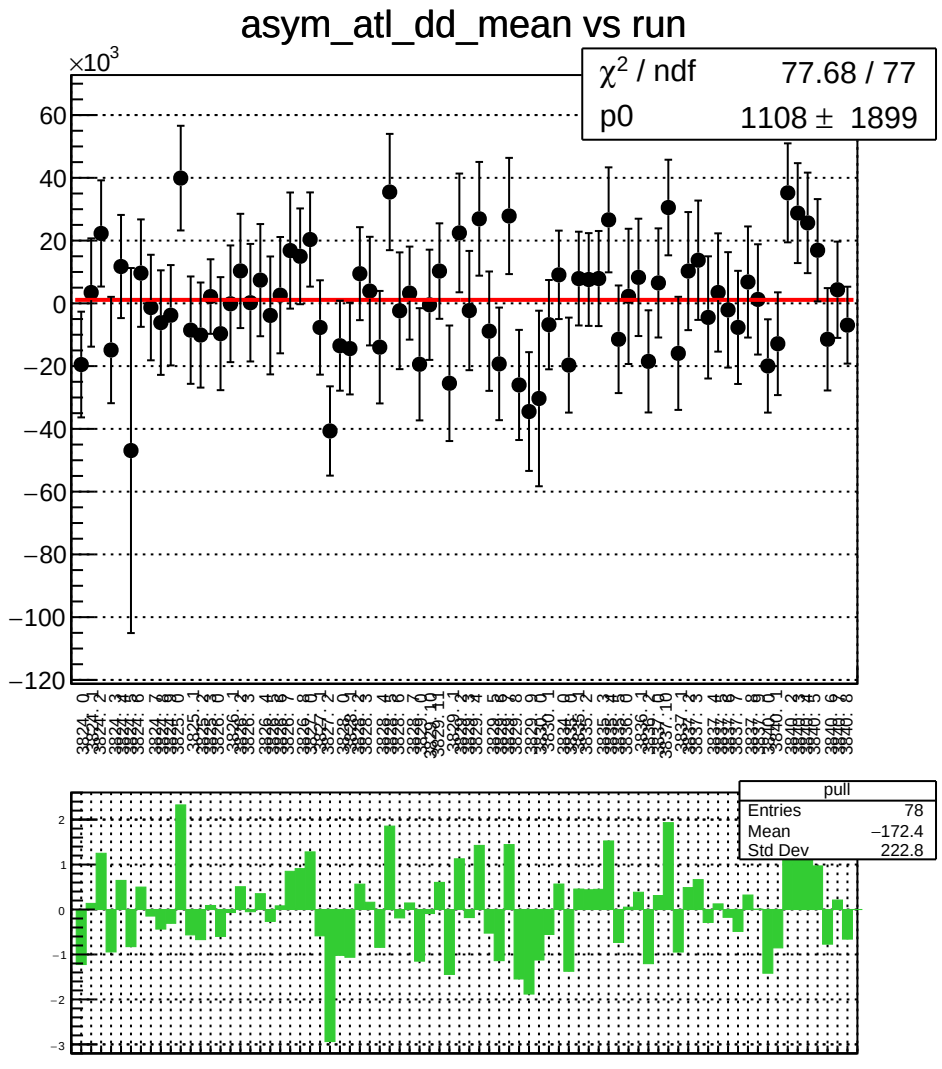

pull1D
Entries 78
Mean −0.01373
Std Dev 0.8613

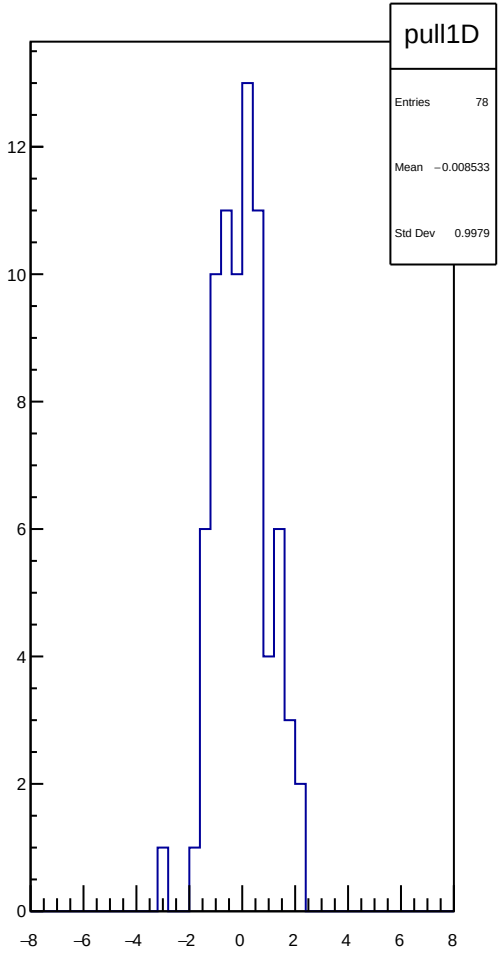

reg_asym_atl_dd_rms vs run
χ² / ndf 1.648e+04 / 77
p0 318 ± 0.2612
5000
4000
3000
2000
1000

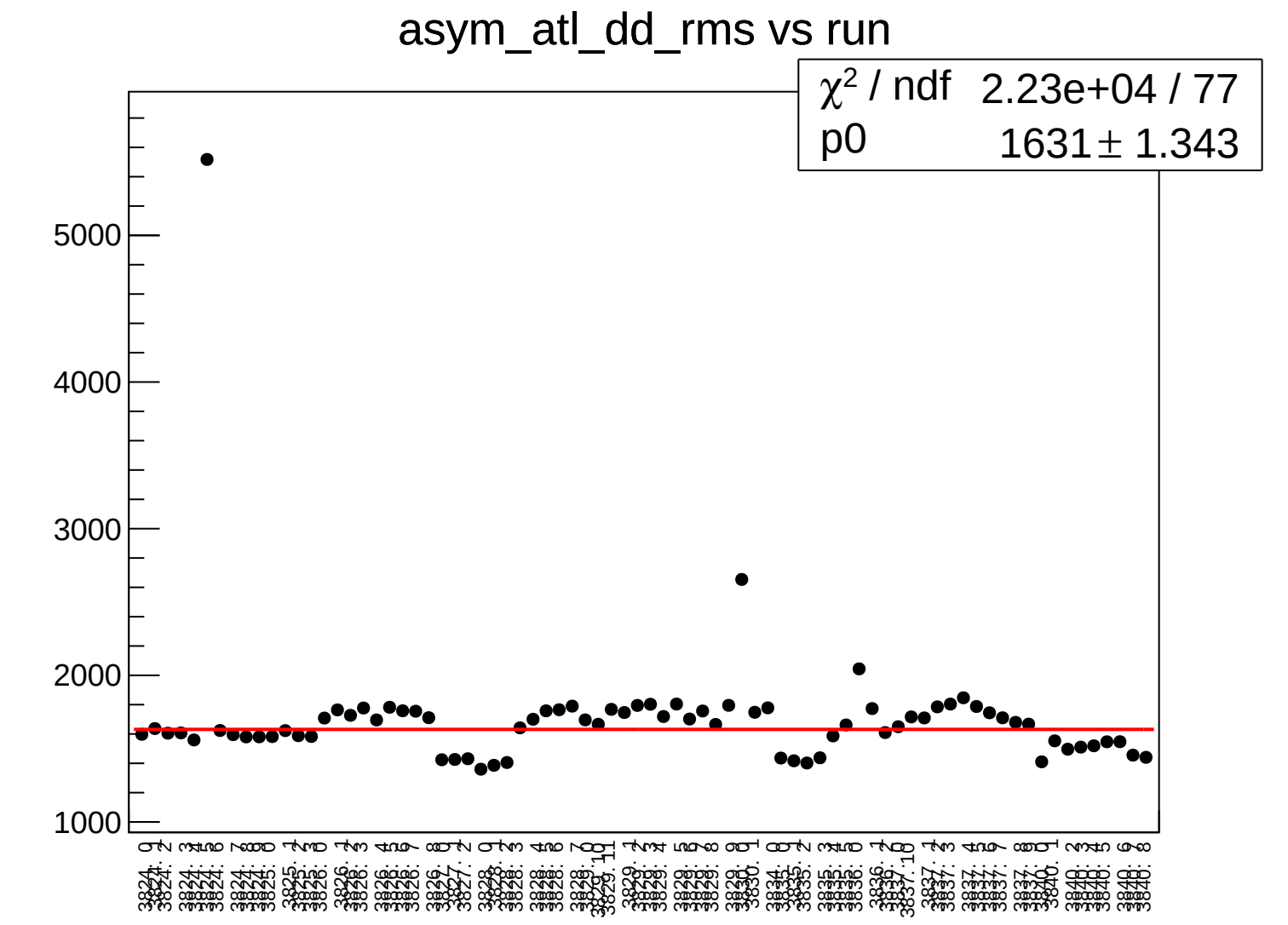

asym_atl_dd_correction_mean vs run
χ² / ndf 76.89 / 77
p0 −694.8 ± 1852
pull
Entries 78
Mean 469.5
Std Dev 399

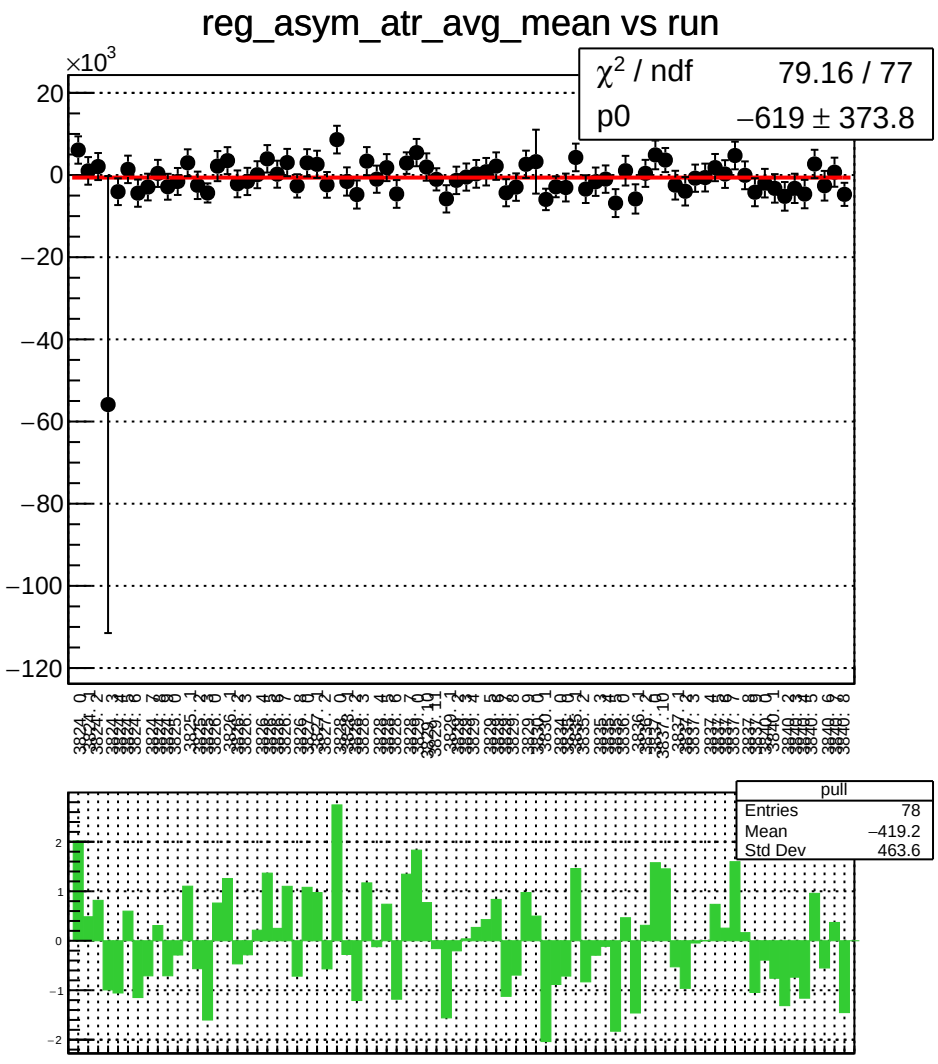

pull1D
Entries 78
Mean −0.002572
Std Dev 0.9929

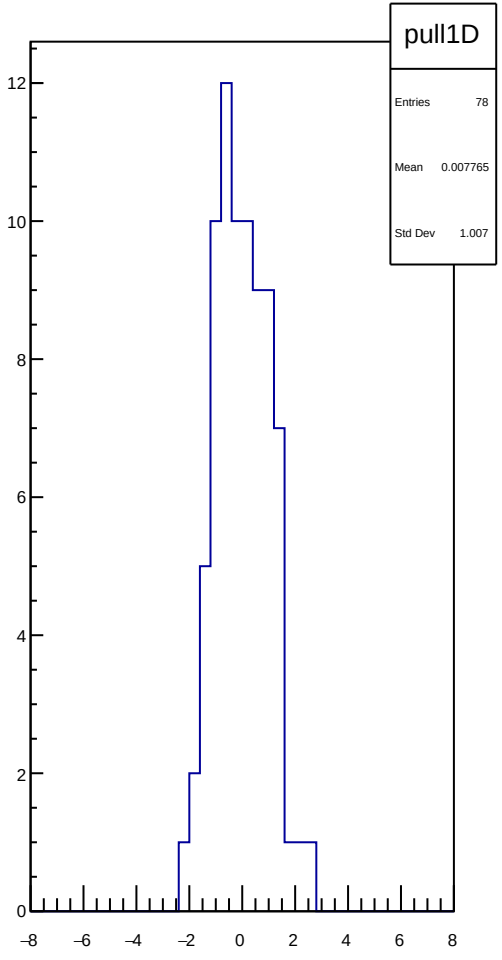

asym_atl_dd_correction_rms vs run
χ² / ndf 1.434e+04 / 77
p0 1595 ± 1.309
2600
2400
2200
2000
1800
1600
1400
1200

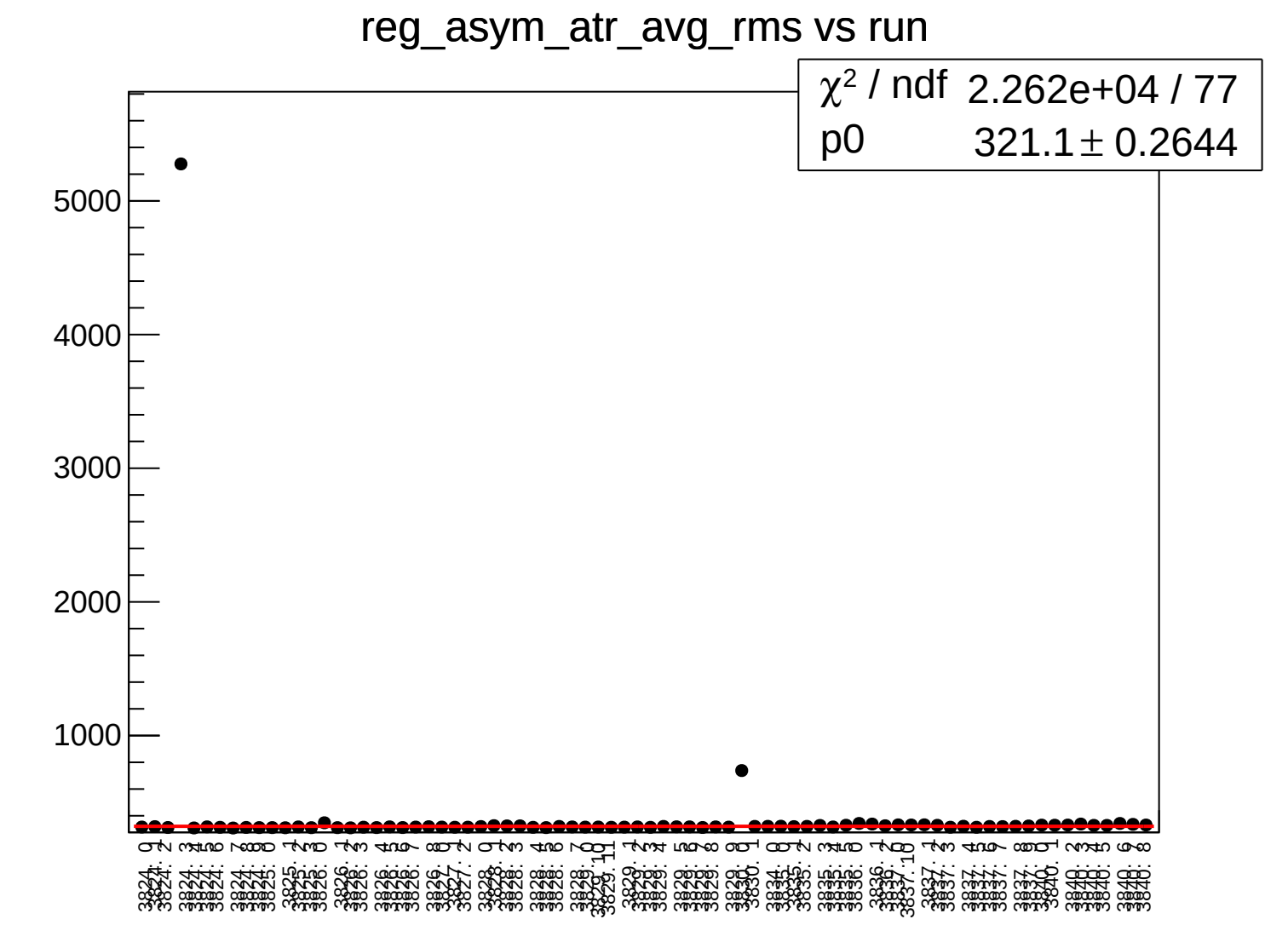

asym_atl_dd_mean vs run
×10^3
χ² / ndf 77.68 / 77
p0 1108 ± 1899
pull
Entries 78
Mean −172.4
Std Dev 222.8

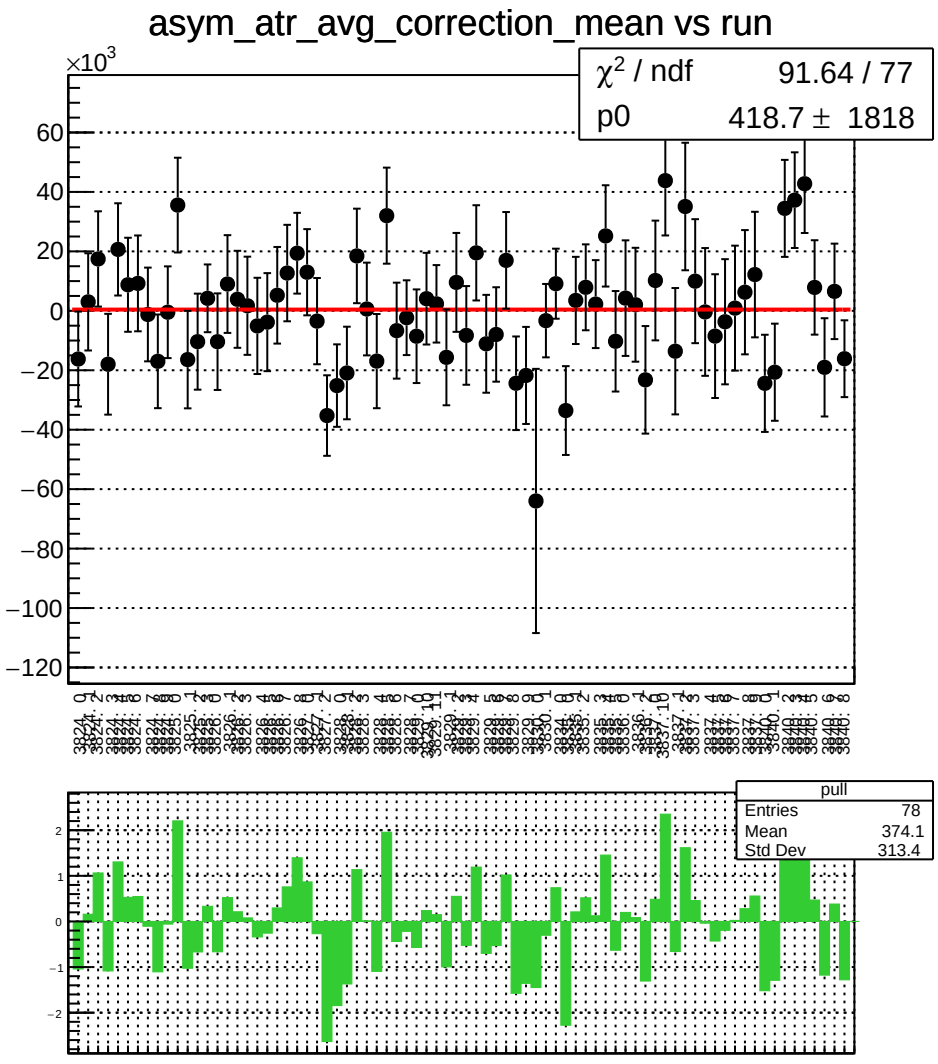

pull1D
Entries 78
Mean −0.008533
Std Dev 0.9979

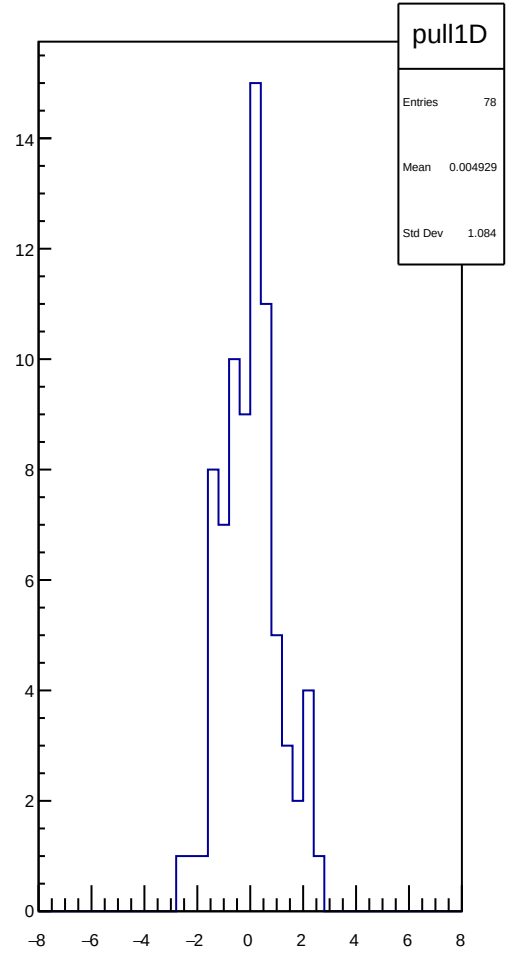

asym_atl_dd_rms vs run
χ² / ndf 2.23e+04 / 77
p0 1631 ± 1.343
5000
4000
3000
2000
1000

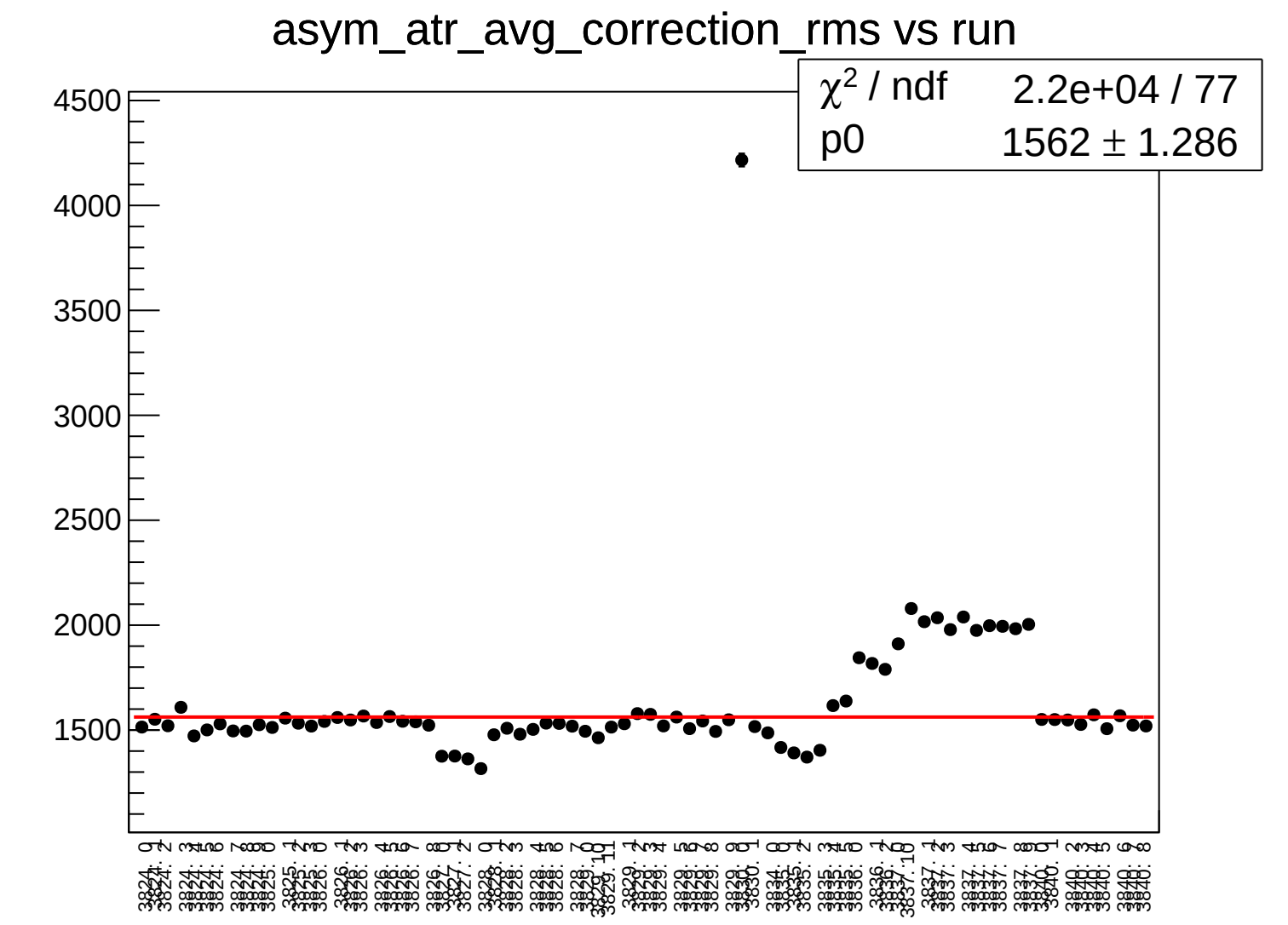

reg_asym_atr_avg_mean vs run
×10^3
χ² / ndf 79.16 / 77
p0 −619 ± 373.8
pull
Entries 78
Mean −419.2
Std Dev 463.6

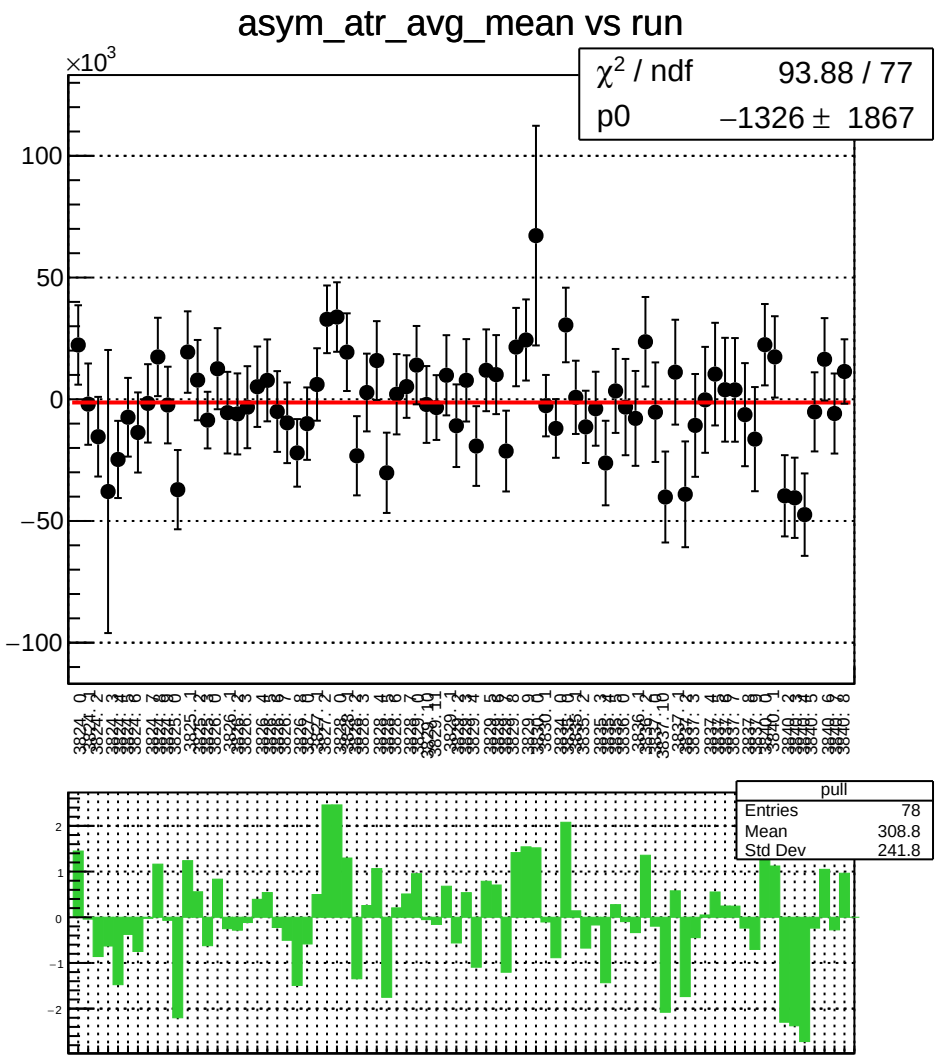

pull1D
Entries 78
Mean 0.007765
Std Dev 1.007

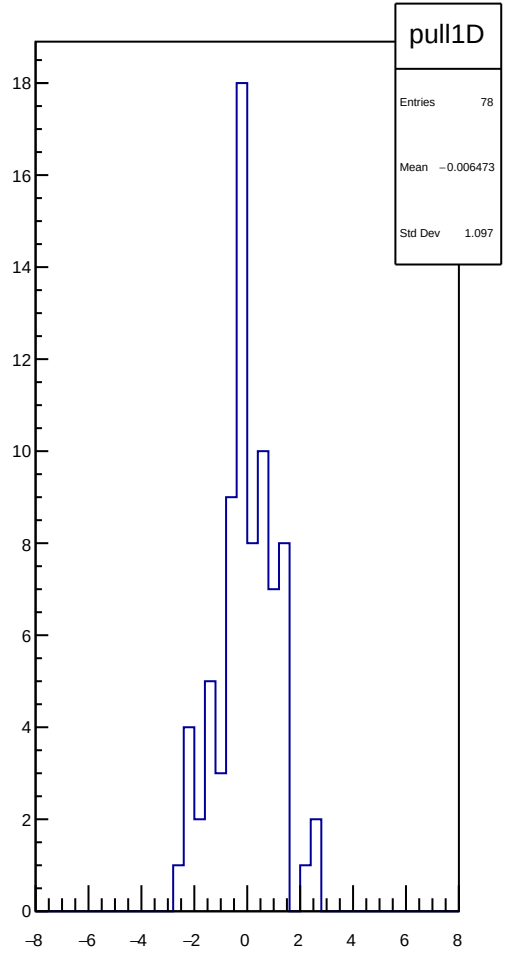

reg_asym_atr_avg_rms vs run
χ² / ndf 2.262e+04 / 77
p0 321.1 ± 0.2644
5000
4000
3000
2000
1000

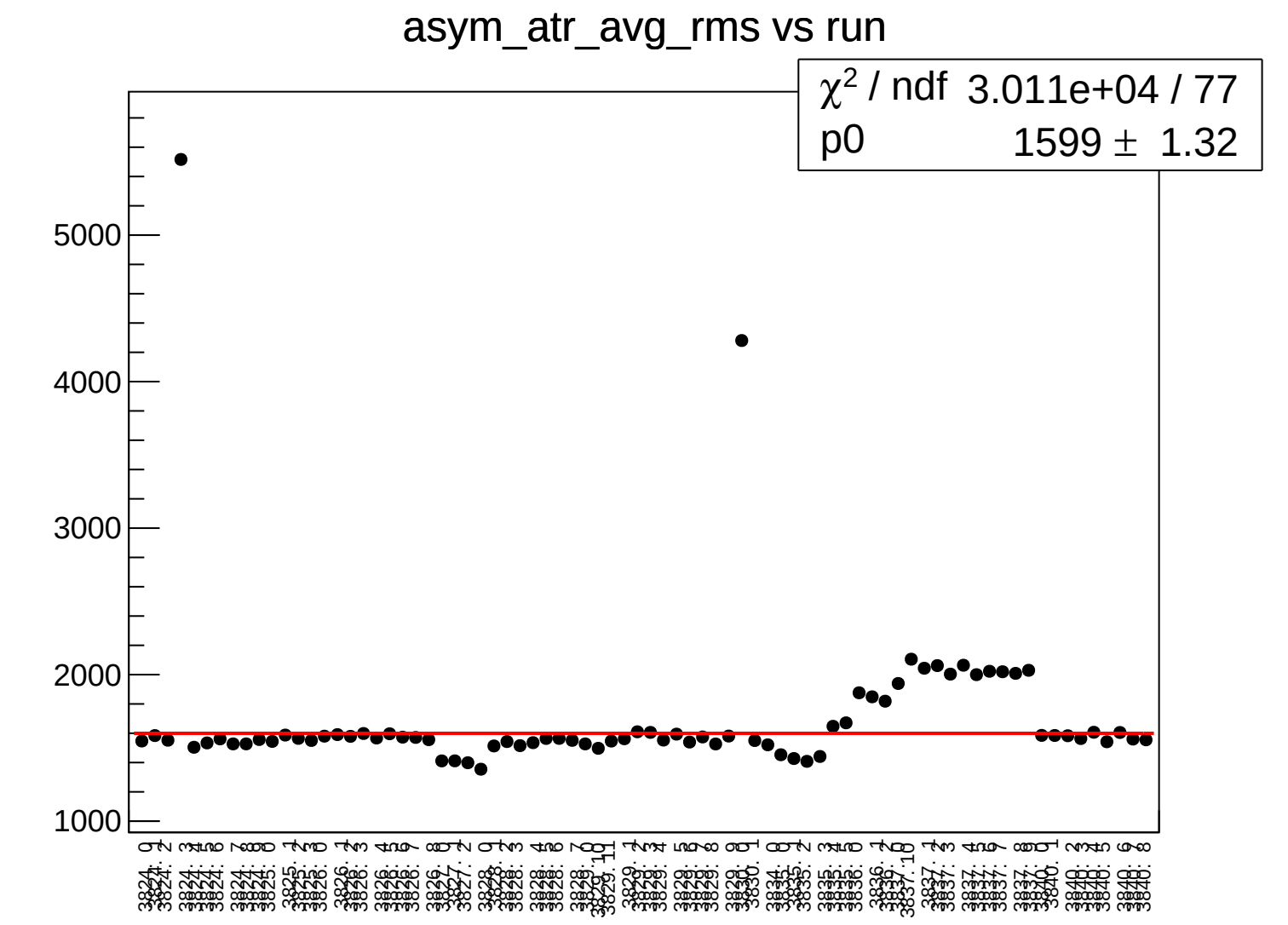

asym_atr_avg_correction_mean vs run
χ² / ndf 91.64 / 77
p0 418.7 ± 1818
×10³
pull
Entries 78
Mean 374.1
Std Dev 313.4

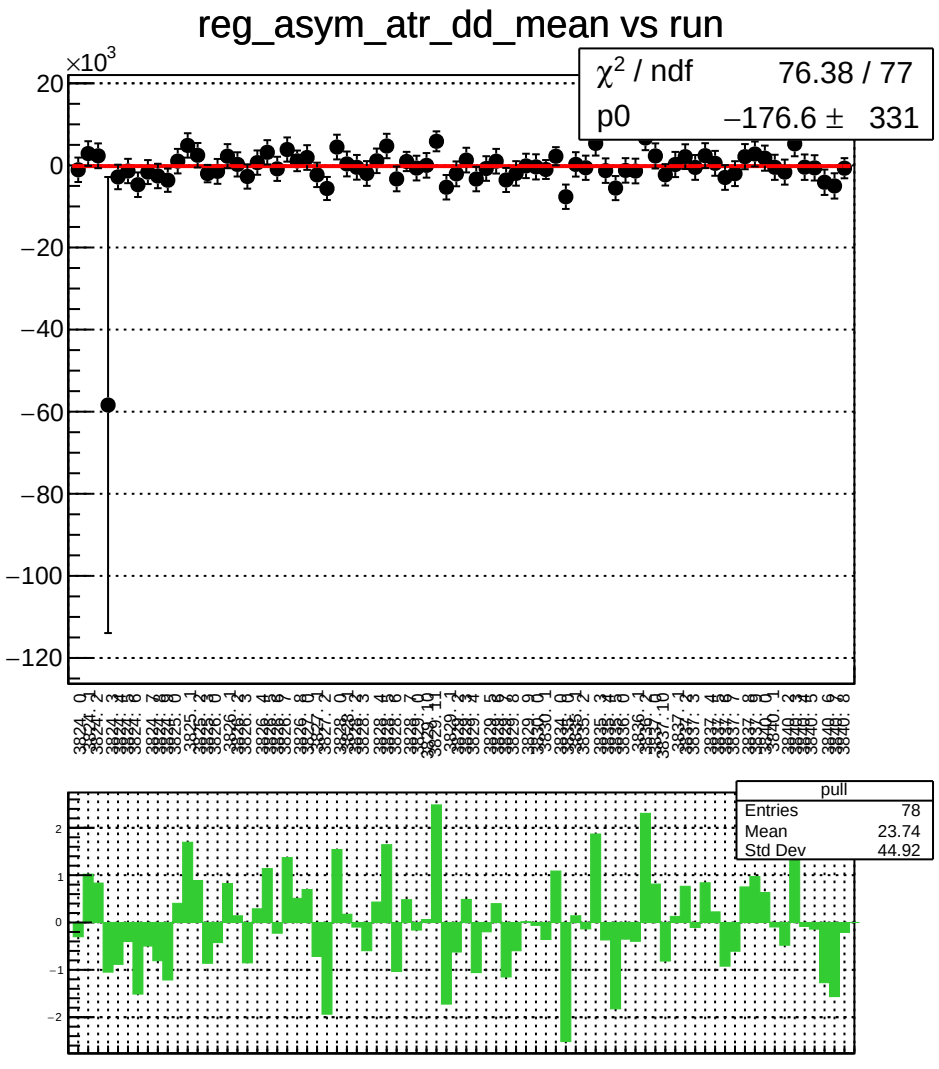

pull1D
Entries 78
Mean 0.004929
Std Dev 1.084

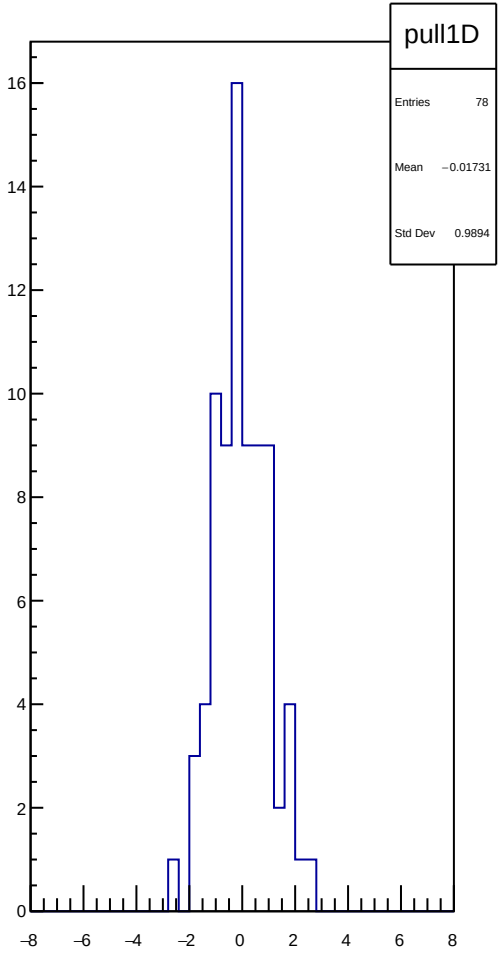

asym_atr_avg_correction_rms vs run
χ^2 / ndf 2.2e+04 / 77
p0 1562 ± 1.286
4500
4000
3500
3000
2500
2000
1500

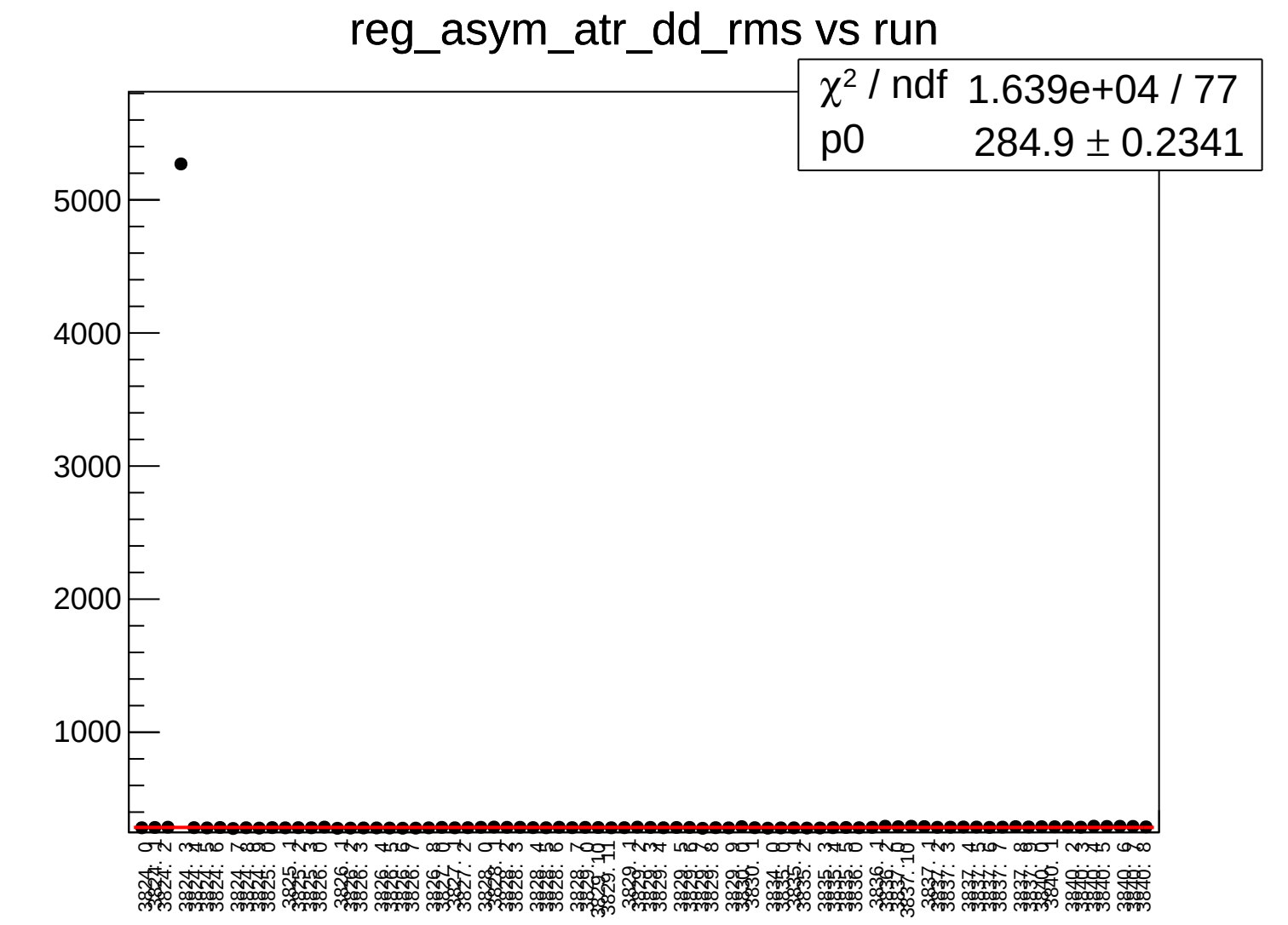

asym_atr_avg_mean vs run
×10^3
χ² / ndf 93.88 / 77
p0 −1326 ± 1867
100
50
0
−50
−100
pull
Entries 78
Mean 308.8
Std Dev 241.8
2
1
0
−1
−2

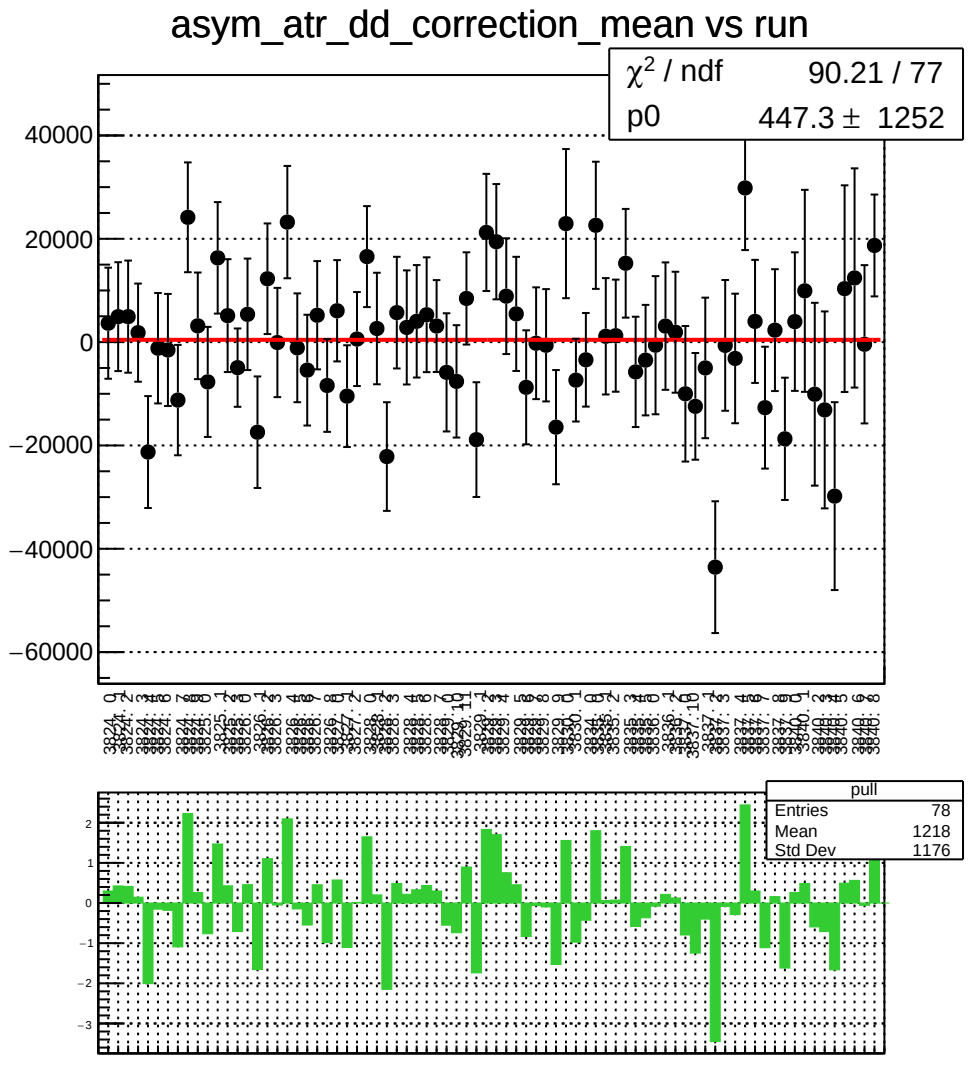

pull1D
Entries 78
Mean −0.006473
Std Dev 1.097
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

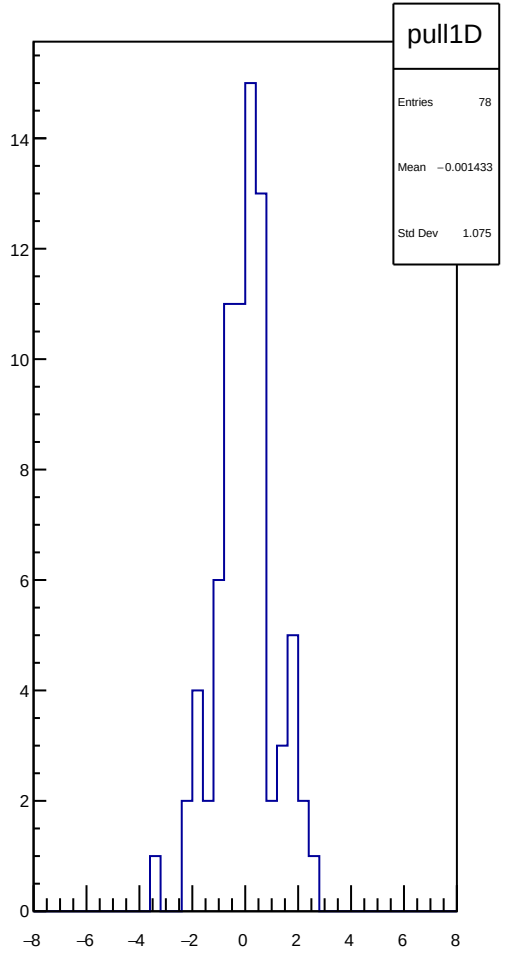

asym_atr_avg_rms vs run
χ² / ndf 3.011e+04 / 77
p0 1599 ± 1.32
5000
4000
3000
2000
1000

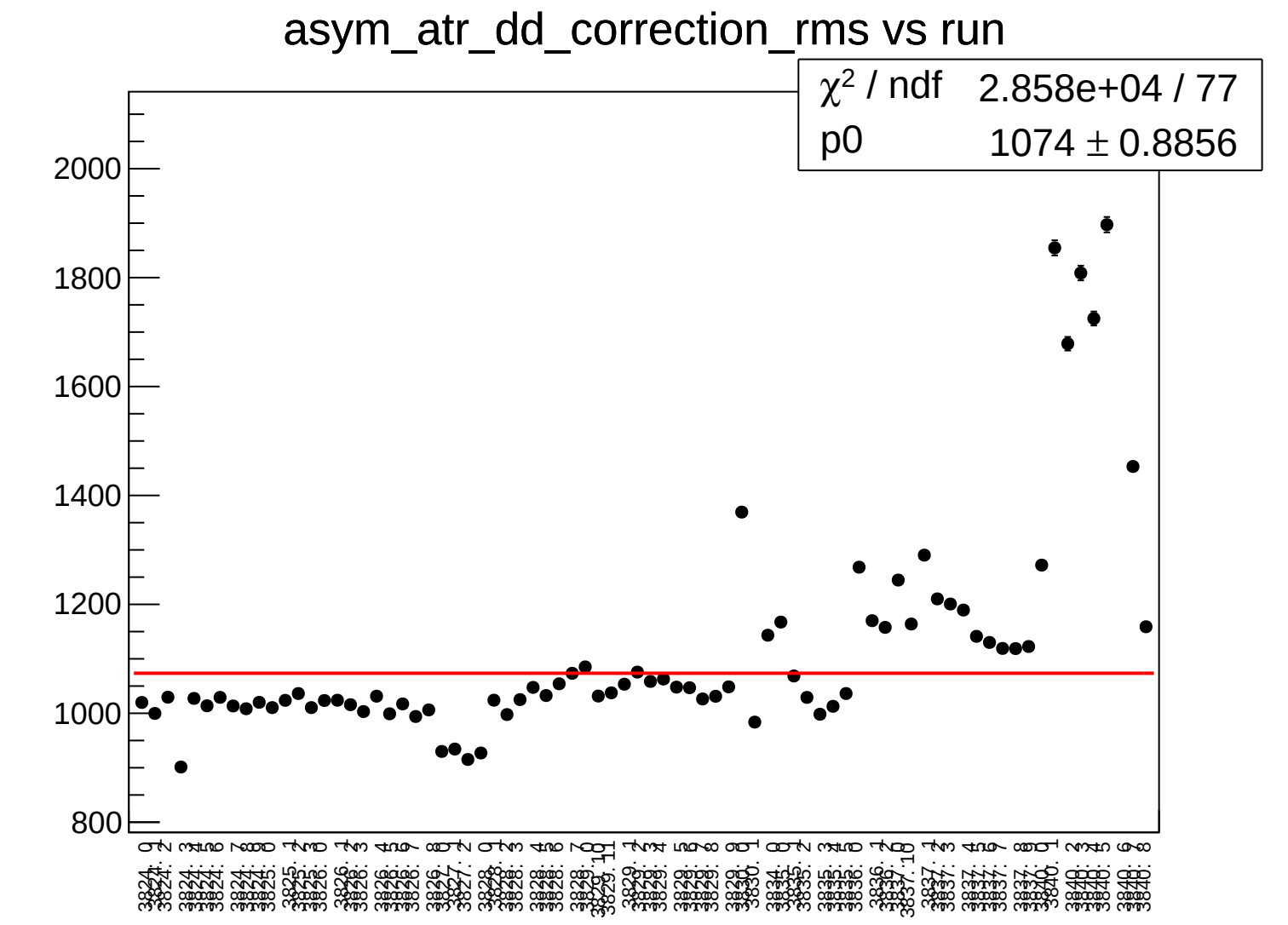

reg_asym_atr_dd_mean vs run
×10^3
χ² / ndf 76.38 / 77
p0 −176.6 ± 331
pull
Entries 78
Mean 23.74
Std Dev 44.92

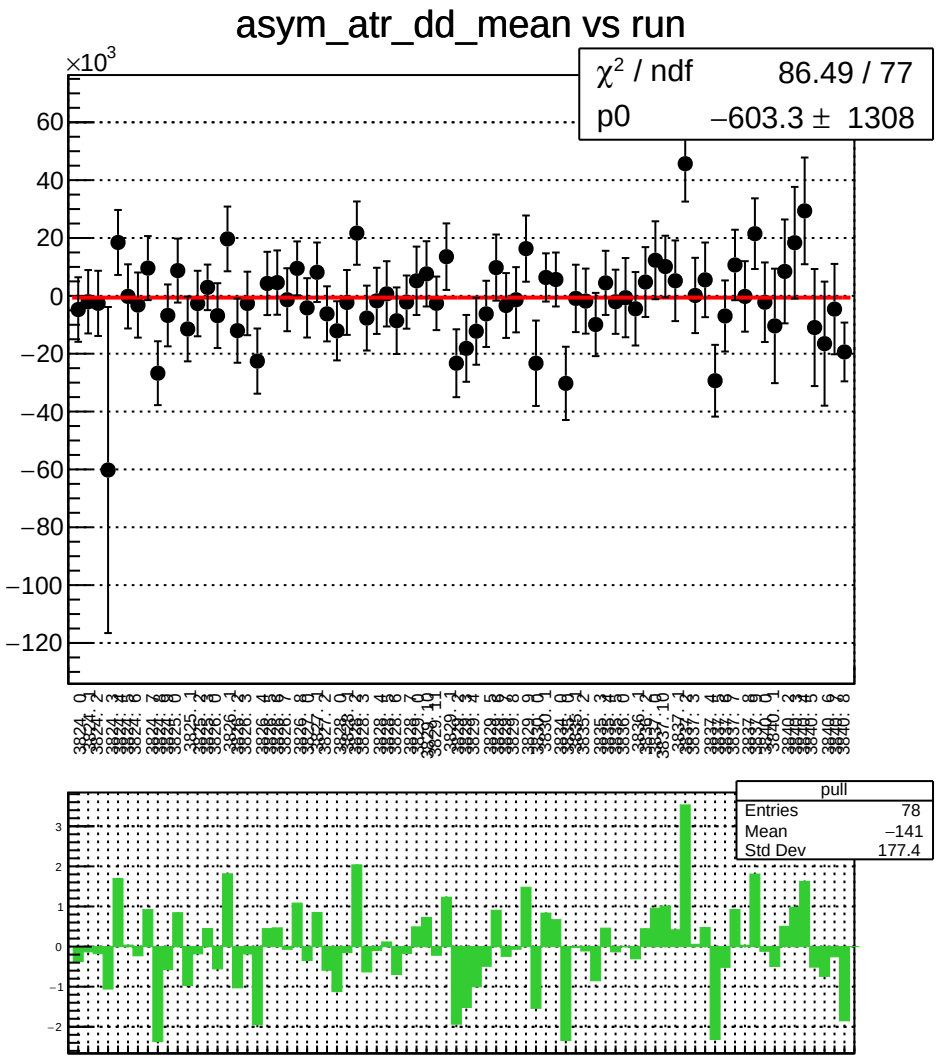

pull1D
Entries 78
Mean −0.01731
Std Dev 0.9894

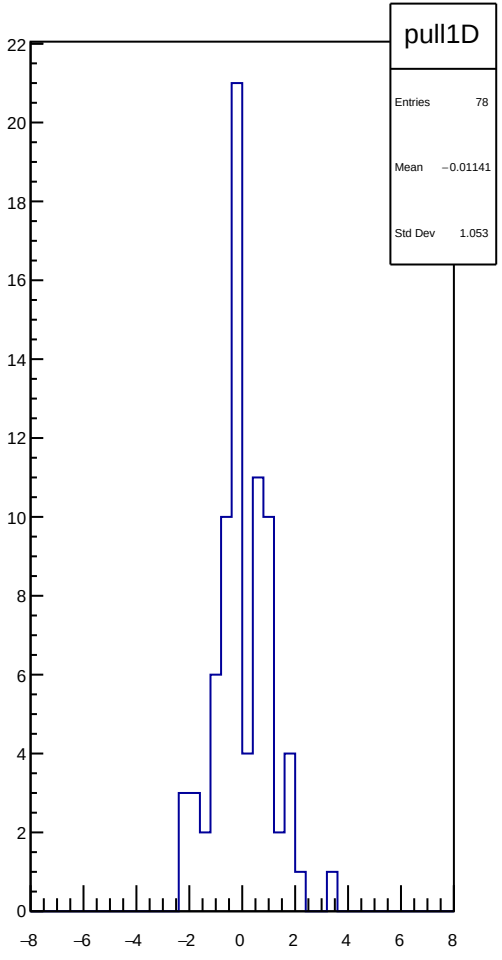

reg_asym_atr_dd_rms vs run
χ² / ndf 1.639e+04 / 77
p0 284.9 ± 0.2341
5000
4000
3000
2000
1000

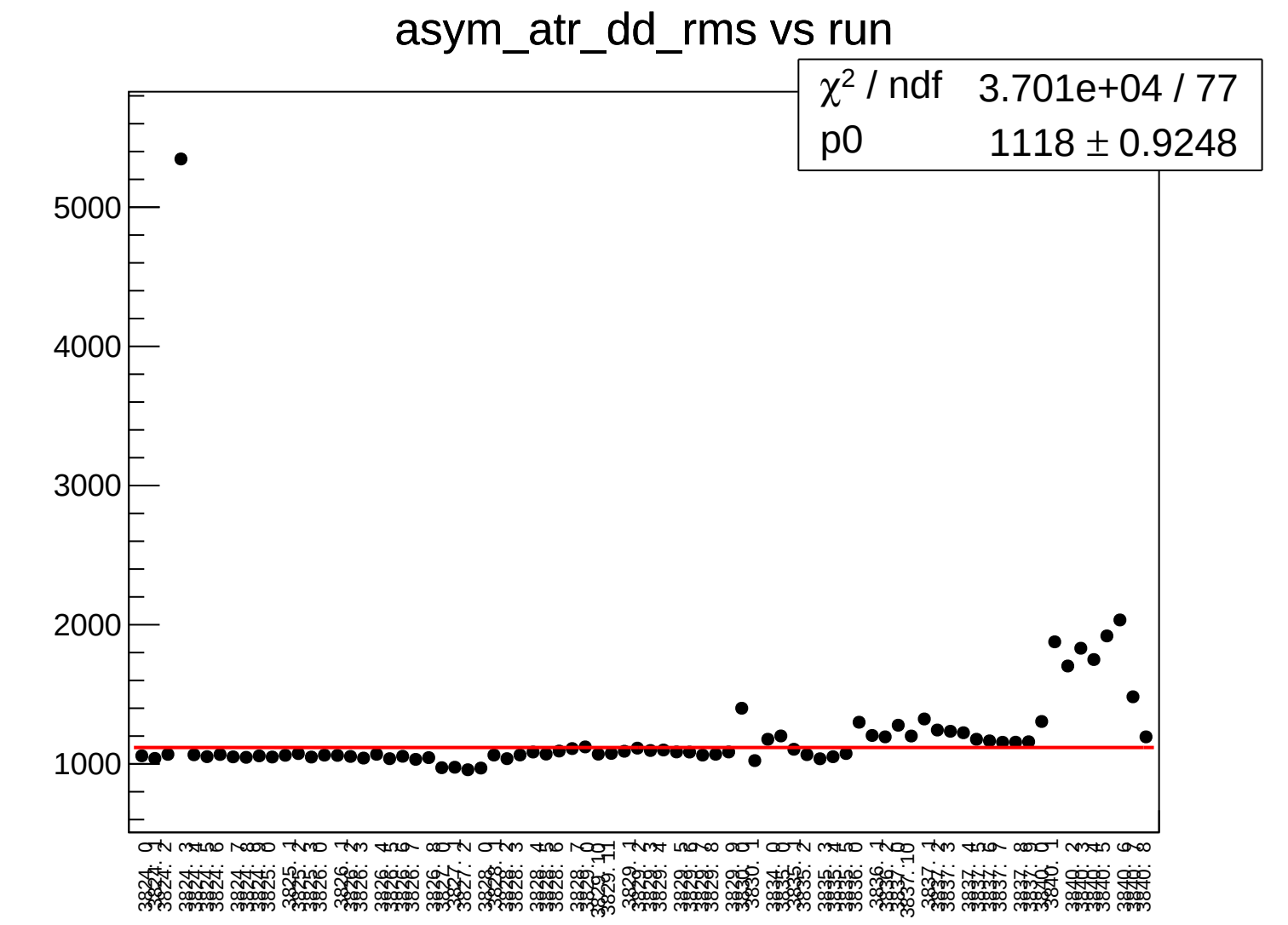

asym_atr_dd_correction_mean vs run
χ² / ndf 90.21 / 77
p0 447.3 ± 1252
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean 1218
Std Dev 1176
2
1
0
−1
−2
−3

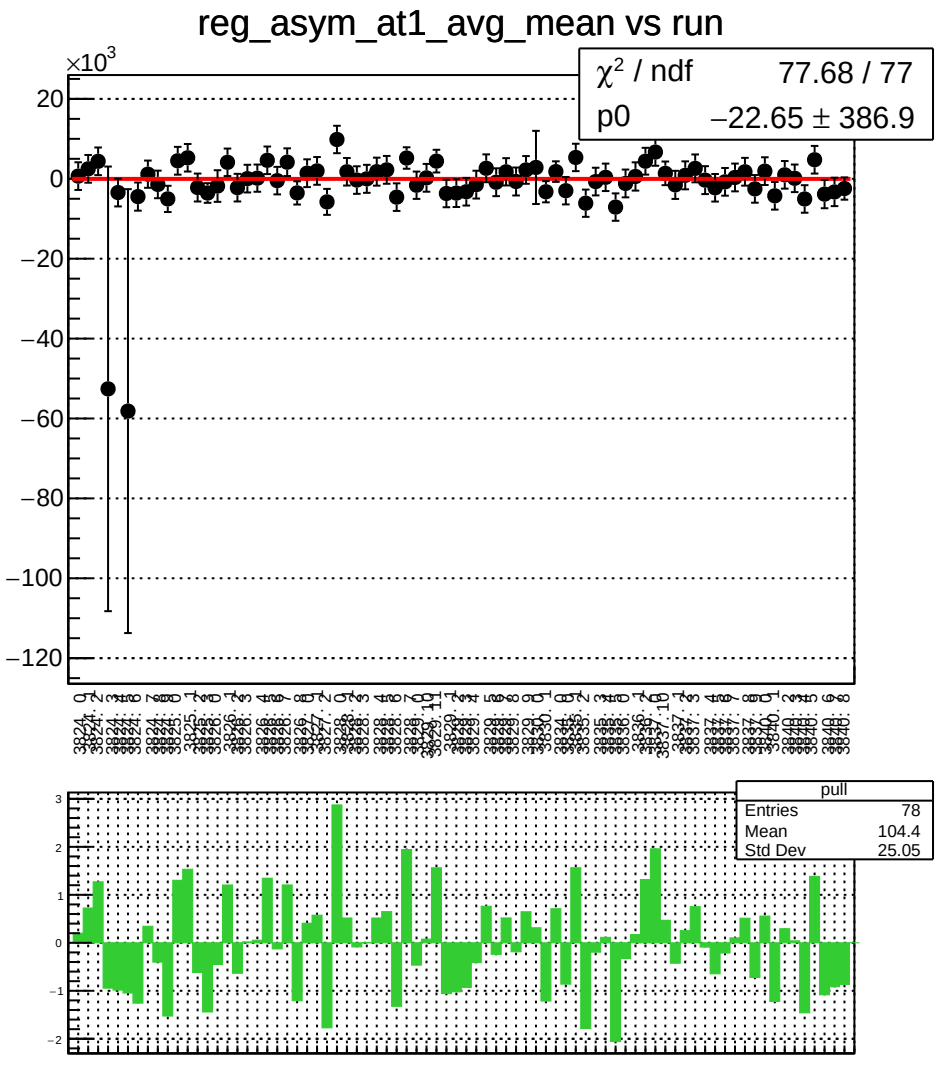

pull1D
Entries 78
Mean −0.001433
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

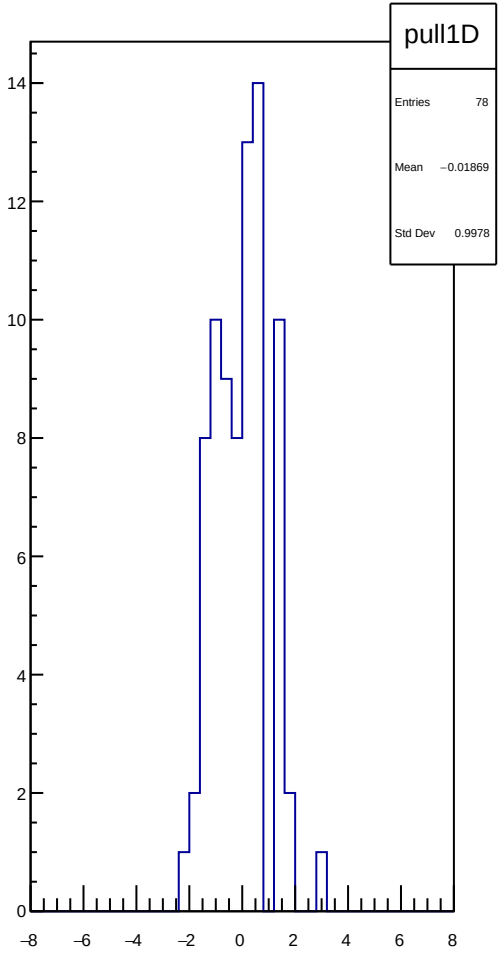

asym_atr_dd_correction_rms vs run
χ² / ndf 2.858e+04 / 77
p0 1074 ± 0.8856
2000
1800
1600
1400
1200
1000
800

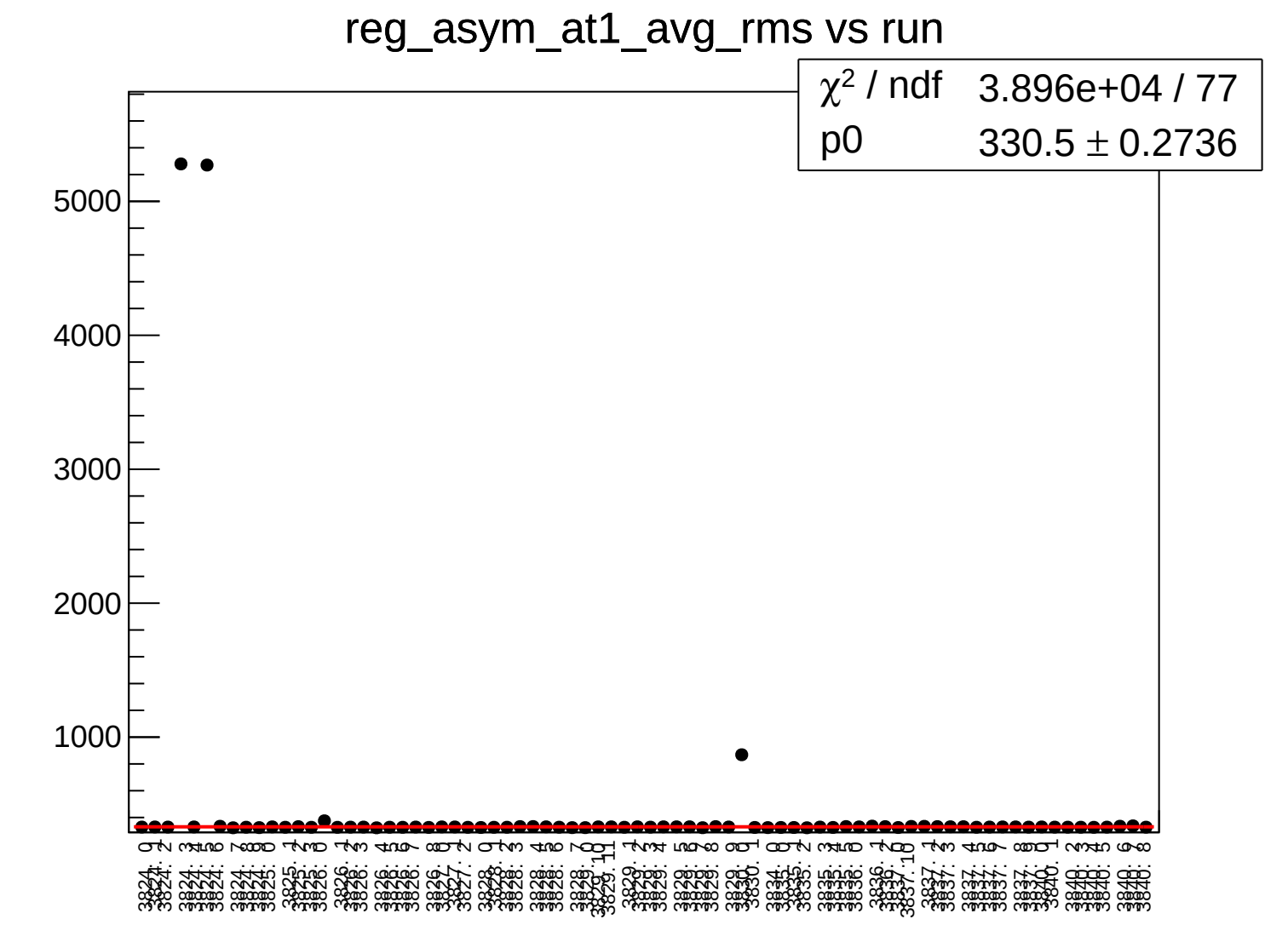

asym_atr_dd_mean vs run
×10^3
χ² / ndf 86.49 / 77
p0 −603.3 ± 1308
pull
Entries 78
Mean −141
Std Dev 177.4

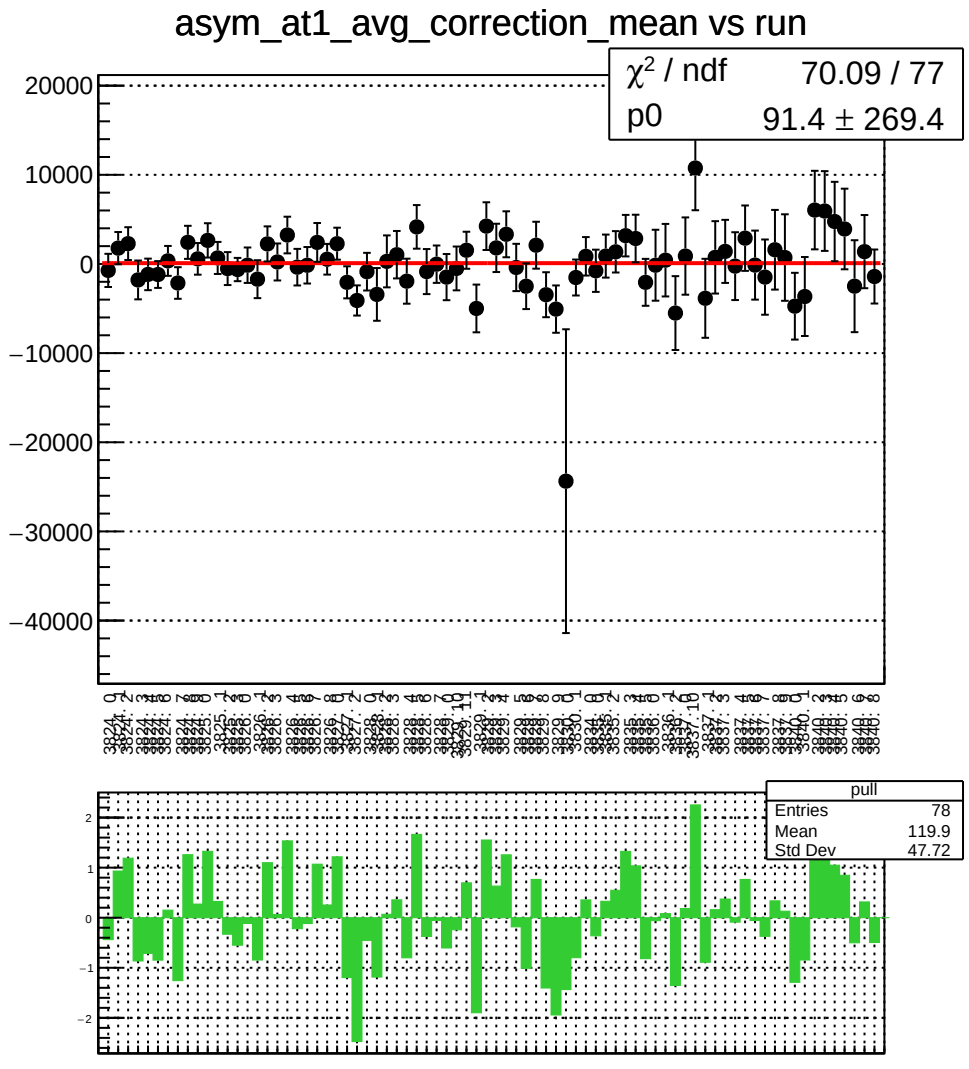

pull1D
Entries 78
Mean −0.01141
Std Dev 1.053

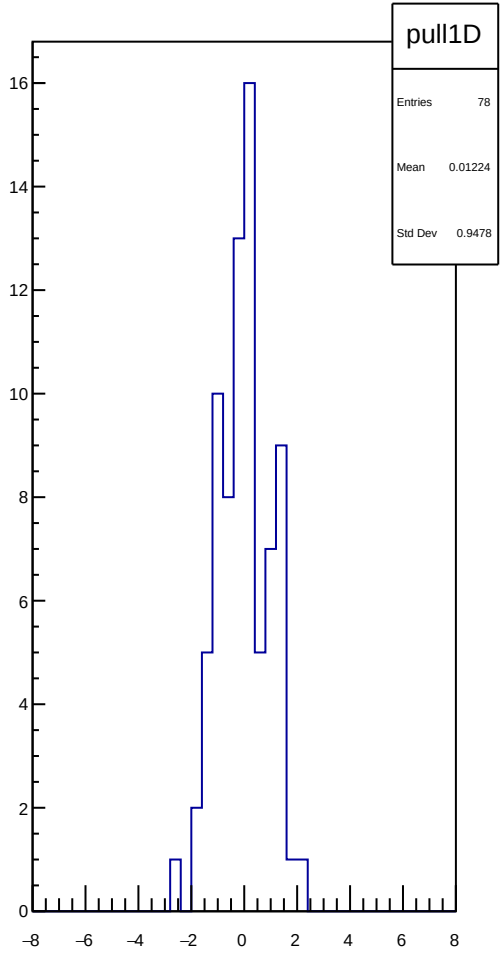

asym_atr_dd_rms vs run
χ^2 / ndf 3.701e+04 / 77
p0 1118 ± 0.9248
5000
4000
3000
2000
1000

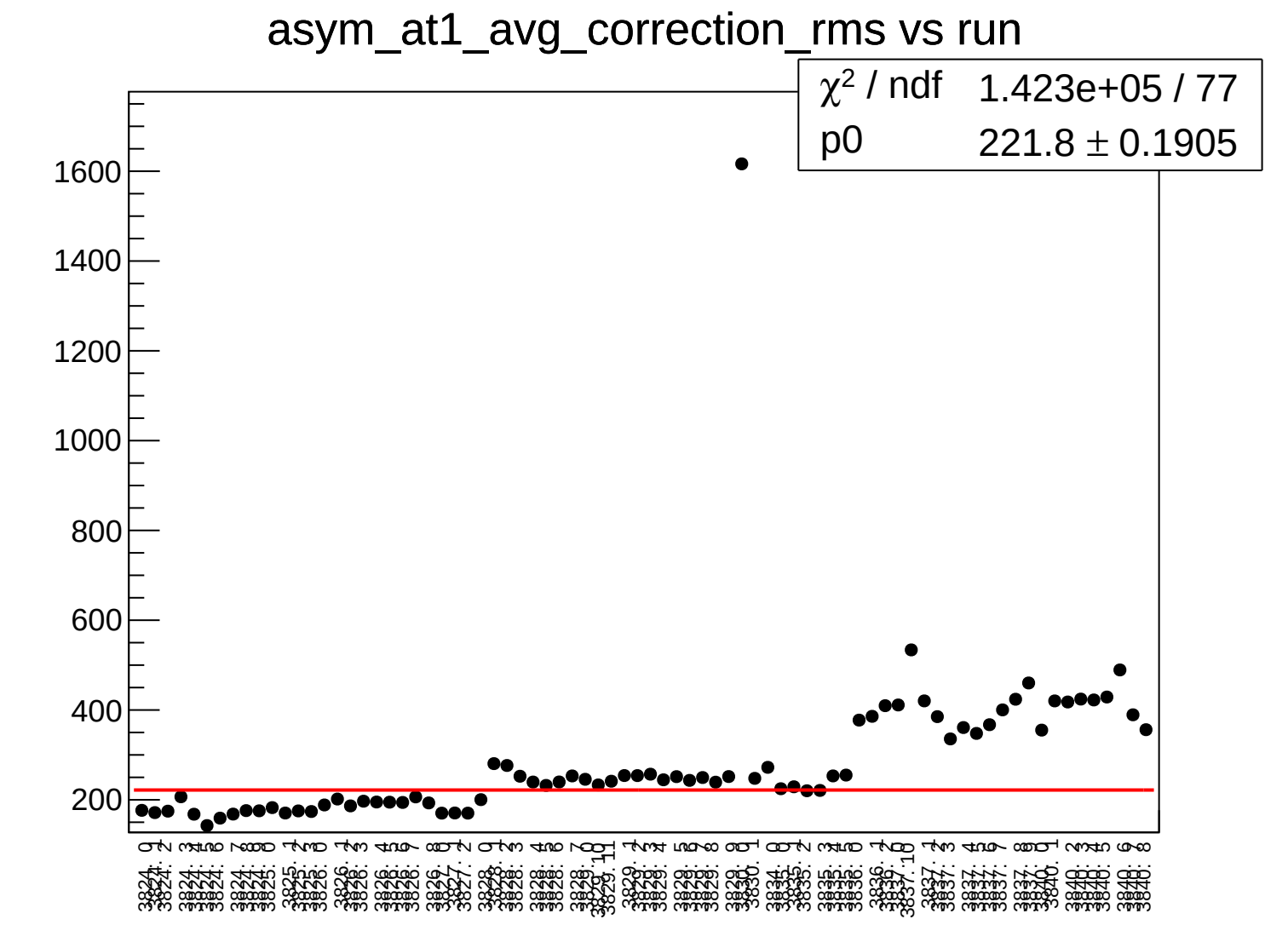

reg_asym_at1_avg_mean vs run
×10^3
χ² / ndf 77.68 / 77
p0 −22.65 ± 386.9
pull
Entries 78
Mean 104.4
Std Dev 25.05

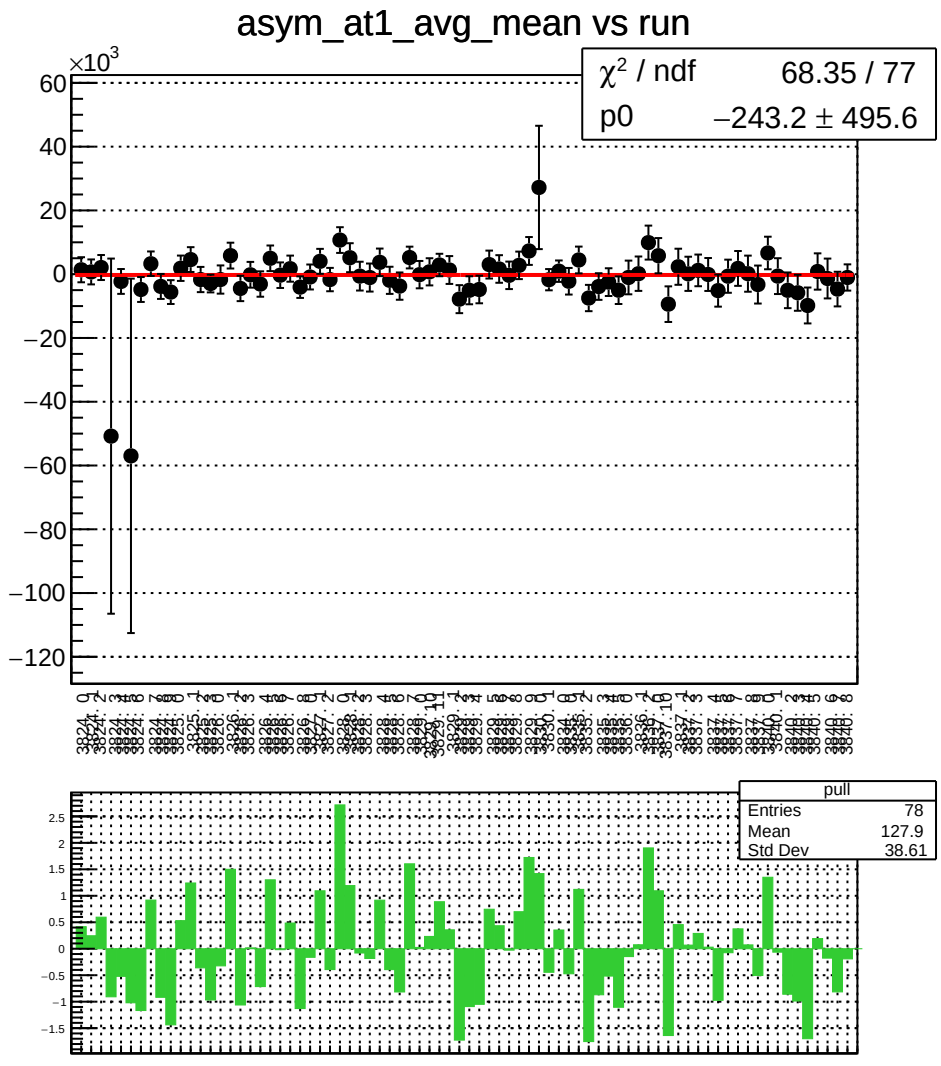

pull1D
Entries 78
Mean −0.01869
Std Dev 0.9978

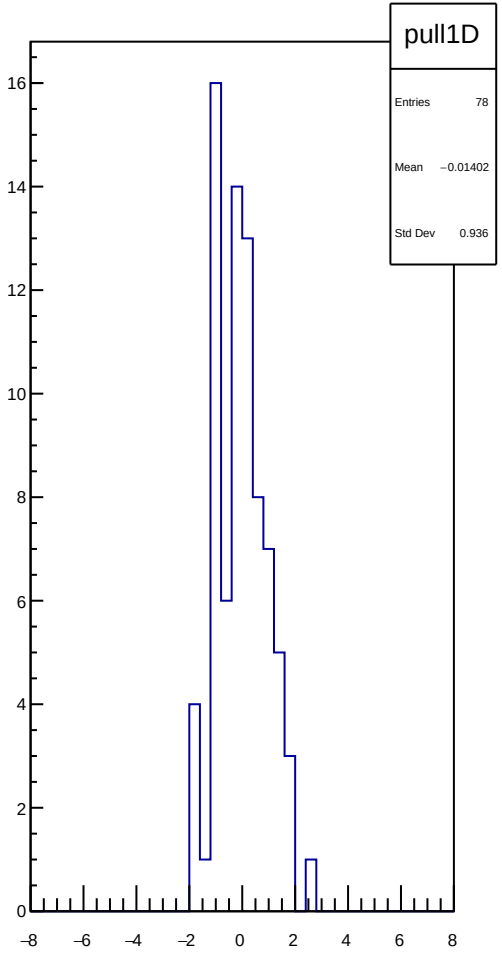

reg_asym_at1_avg_rms vs run
χ^2 / ndf 3.896e+04 / 77
p0 330.5 ± 0.2736
5000
4000
3000
2000
1000

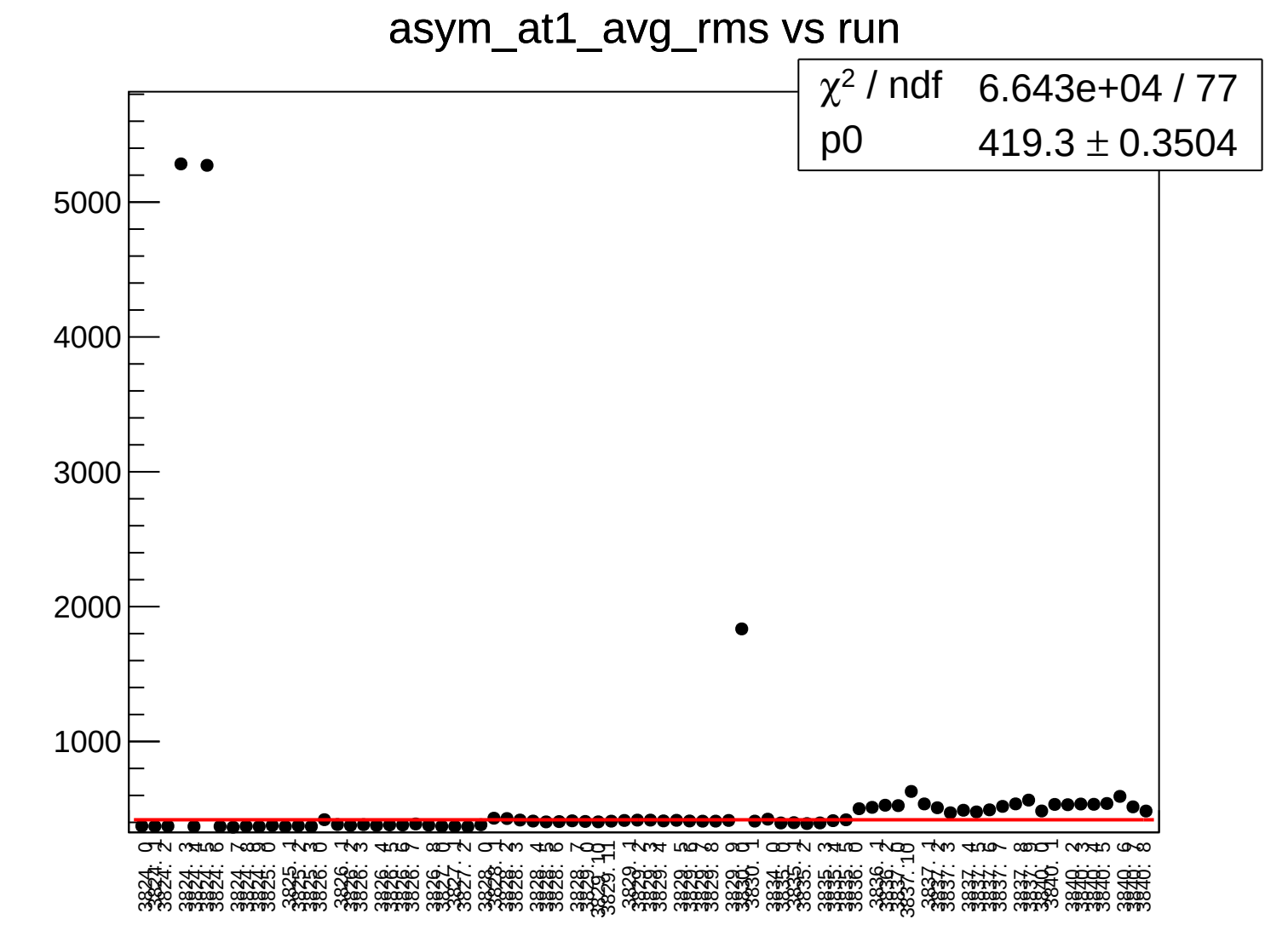

asym_at1_avg_correction_mean vs run
χ² / ndf 70.09 / 77
p0 91.4 ± 269.4
pull
Entries 78
Mean 119.9
Std Dev 47.72

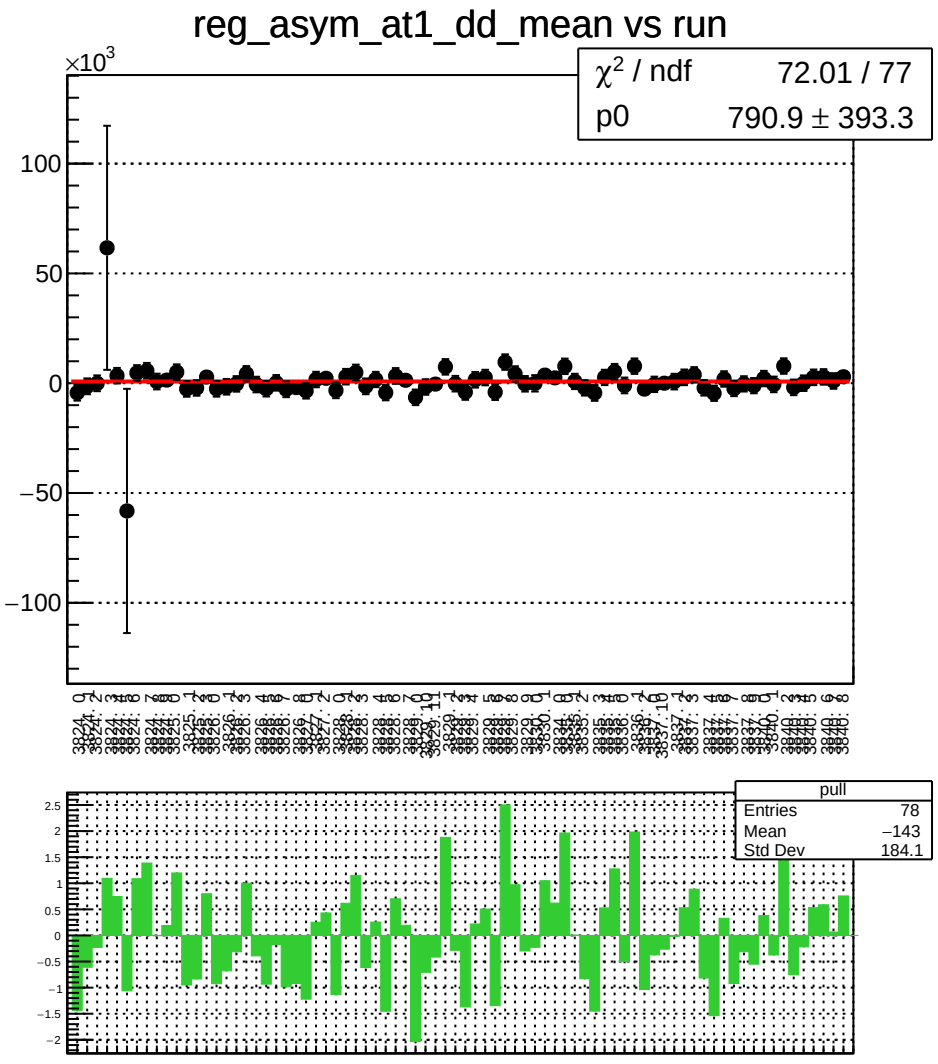

pull1D
Entries 78
Mean 0.01224
Std Dev 0.9478

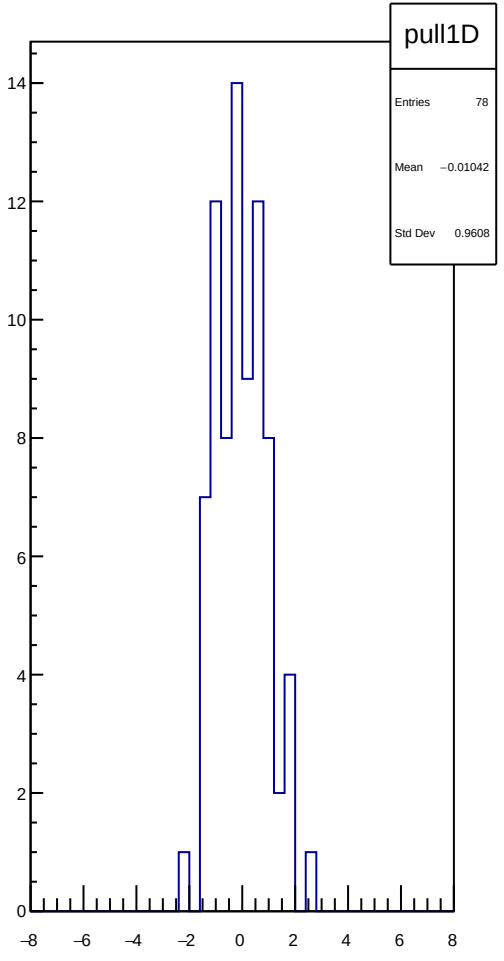

asym_at1_avg_correction_rms vs run
χ² / ndf 1.423e+05 / 77
p0 221.8 ± 0.1905
1600
1400
1200
1000
800
600
400
200

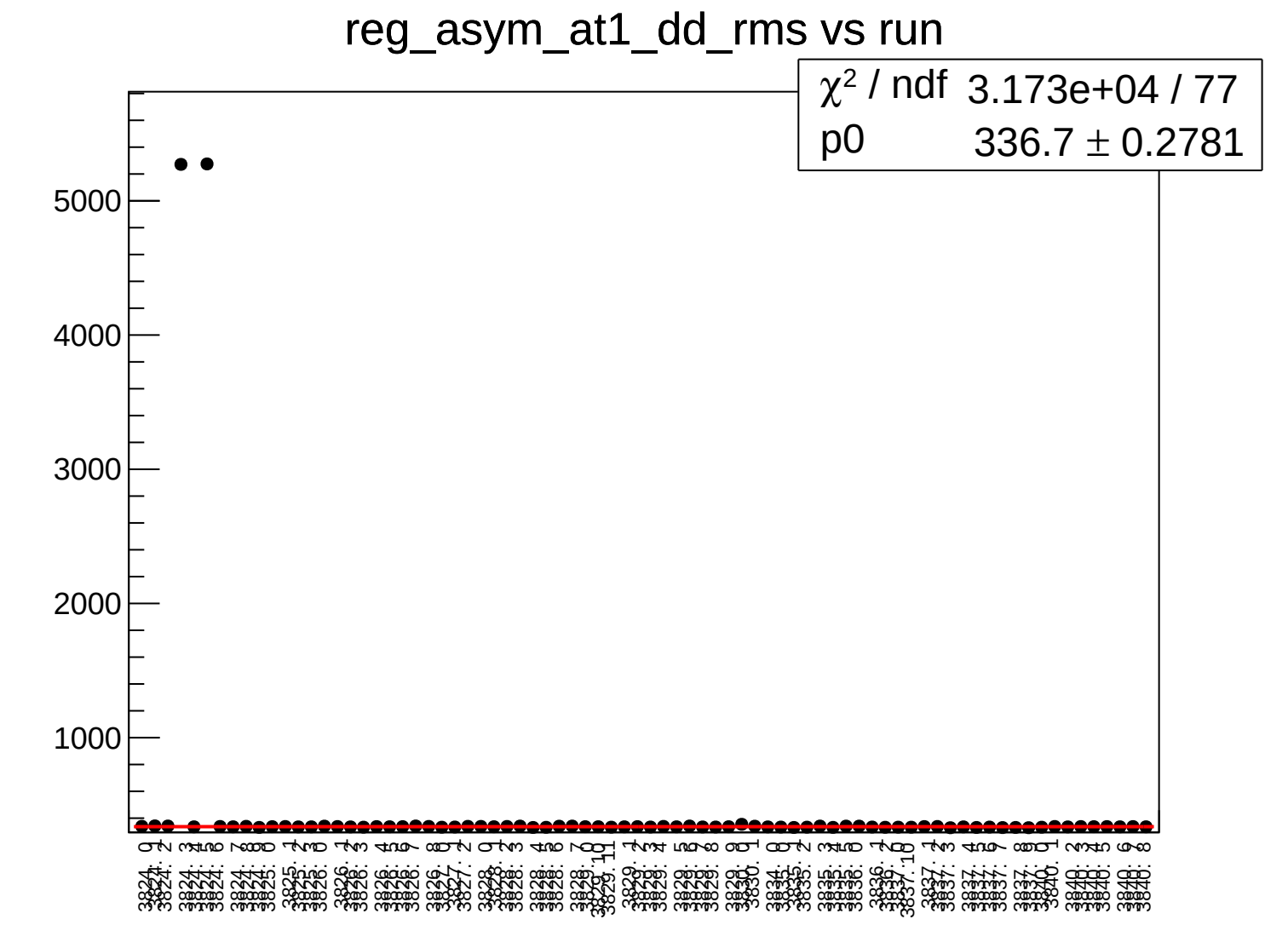

asym_at1_avg_mean vs run
χ² / ndf 68.35 / 77
p0 −243.2 ± 495.6
×10³
pull
Entries 78
Mean 127.9
Std Dev 38.61

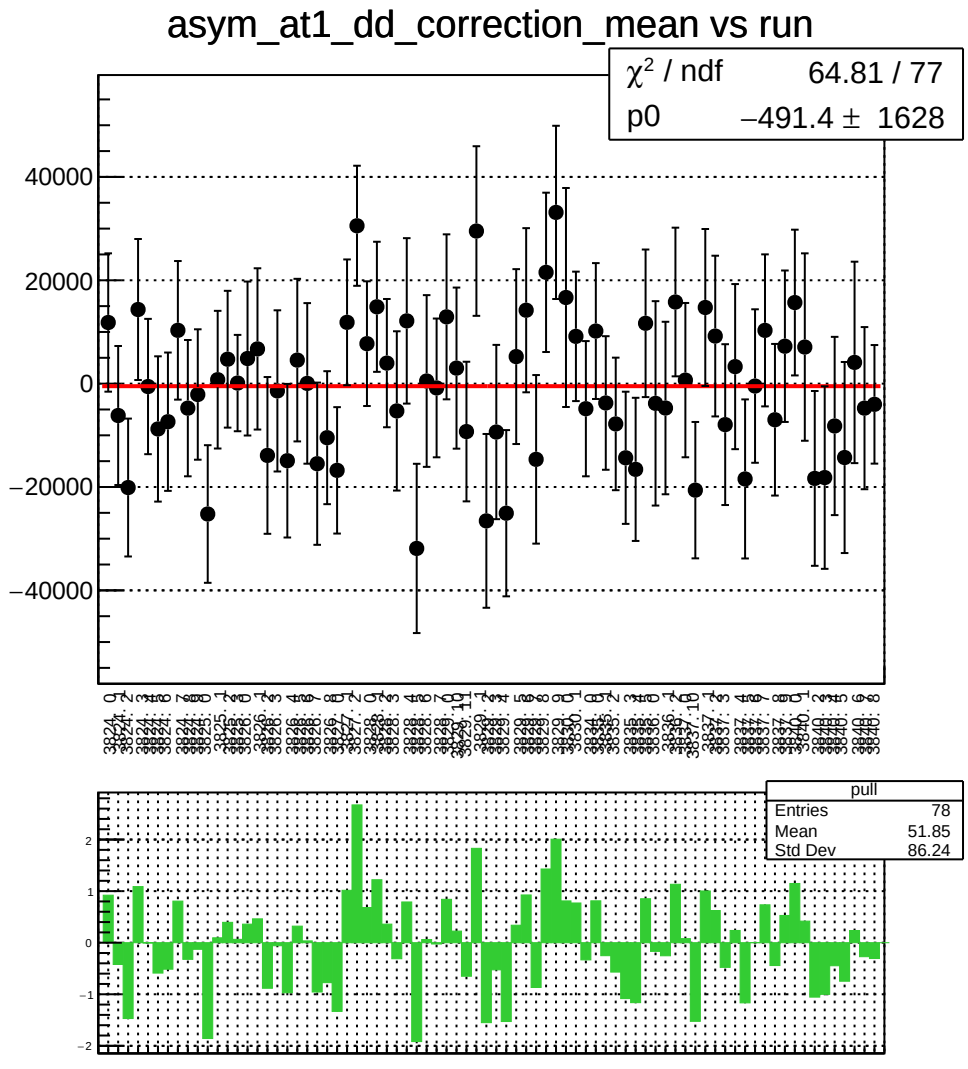

pull1D
Entries 78
Mean −0.01402
Std Dev 0.936

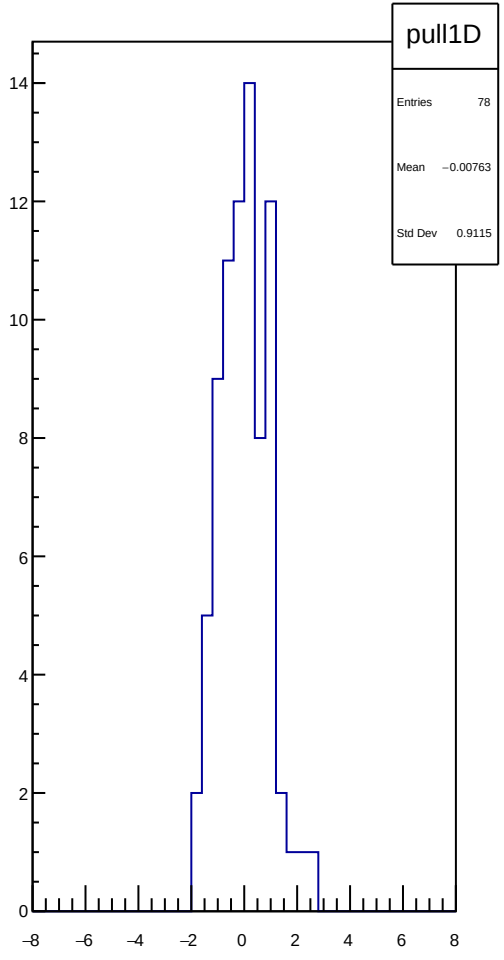

asym_at1_avg_rms vs run
χ² / ndf 6.643e+04 / 77
p0 419.3 ± 0.3504
5000
4000
3000
2000
1000

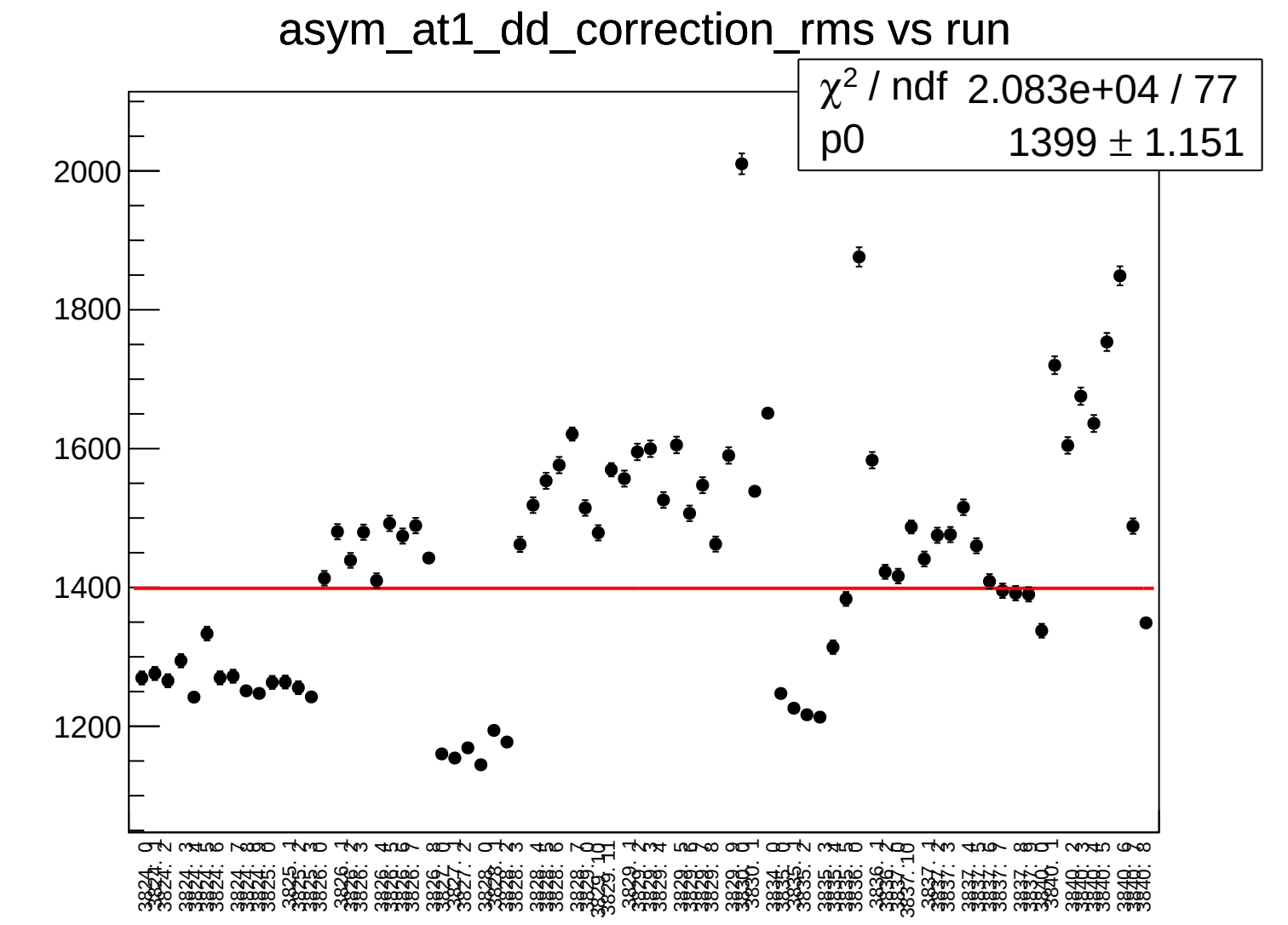

reg_asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 72.01 / 77
p0 790.9 ± 393.3
100
50
0
−50
−100
pull
Entries 78
Mean −143
Std Dev 184.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

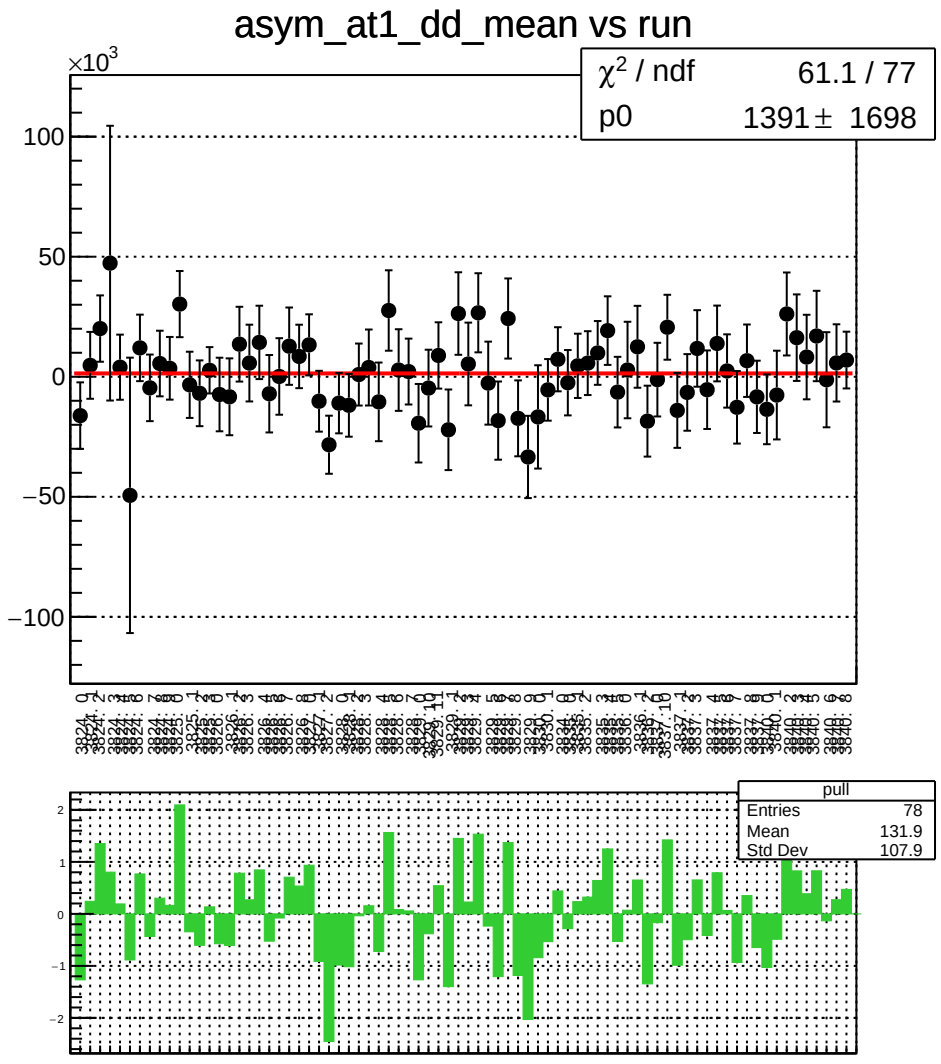

pull1D
Entries 78
Mean −0.01042
Std Dev 0.9608
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

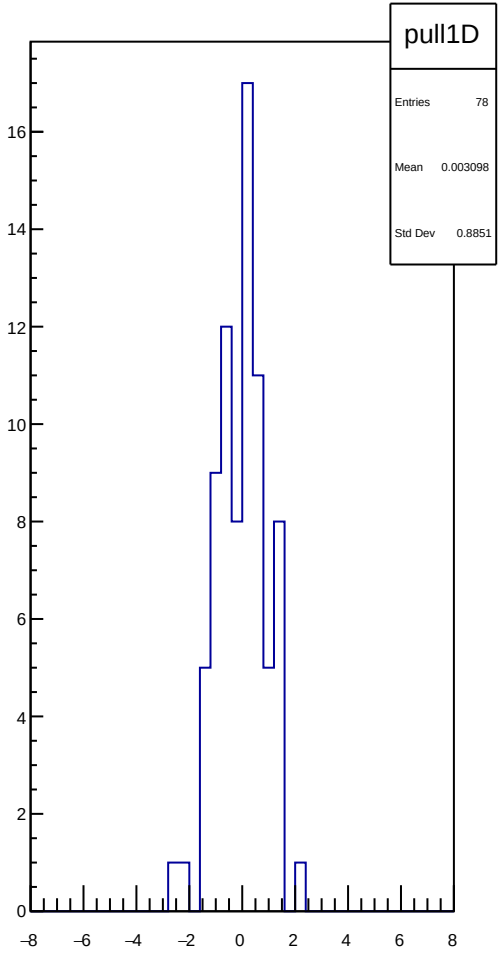

reg_asym_at1_dd_rms vs run
χ² / ndf 3.173e+04 / 77
p0 336.7 ± 0.2781
5000
4000
3000
2000
1000

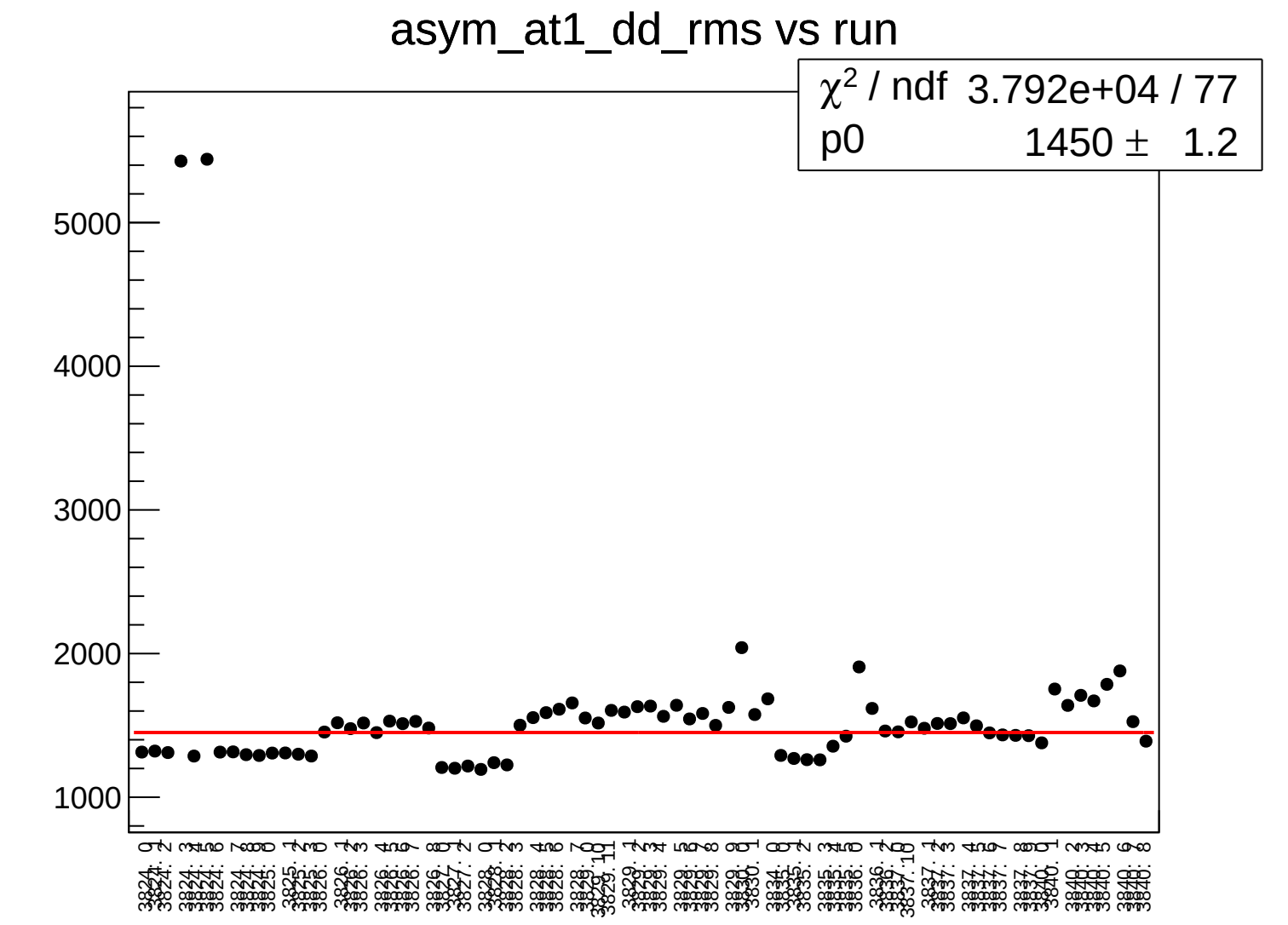

asym_at1_dd_correction_mean vs run
χ² / ndf 64.81 / 77
p0 −491.4 ± 1628
40000
20000
0
−20000
−40000
pull
Entries 78
Mean 51.85
Std Dev 86.24
2
1
0
−1
−2

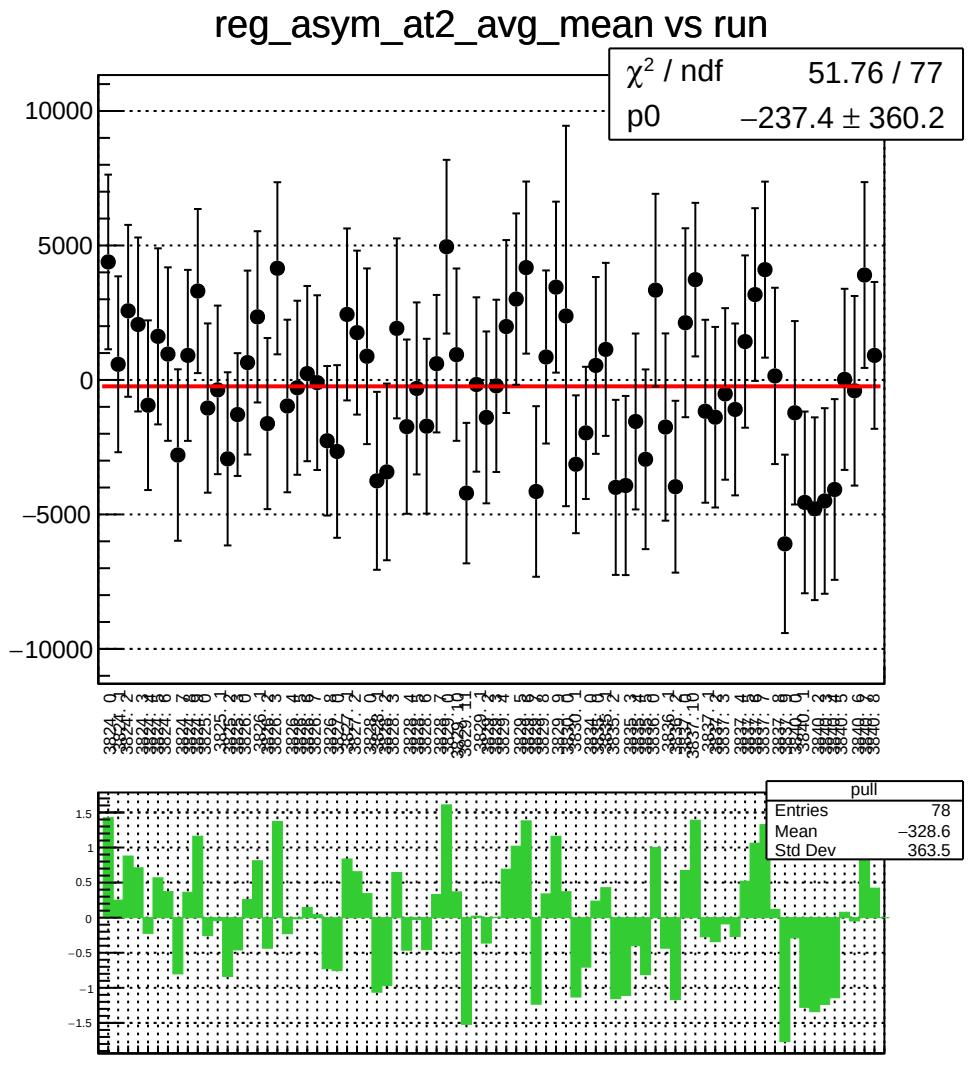

pull1D
Entries 78
Mean −0.00763
Std Dev 0.9115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

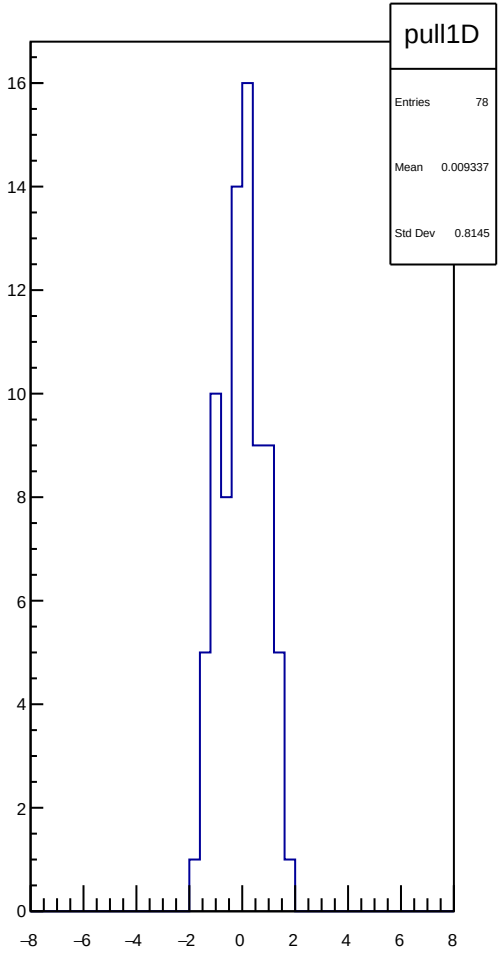

asym_at1_dd_correction_rms vs run
χ² / ndf 2.083e+04 / 77
p0 1399 ± 1.151
2000
1800
1600
1400
1200

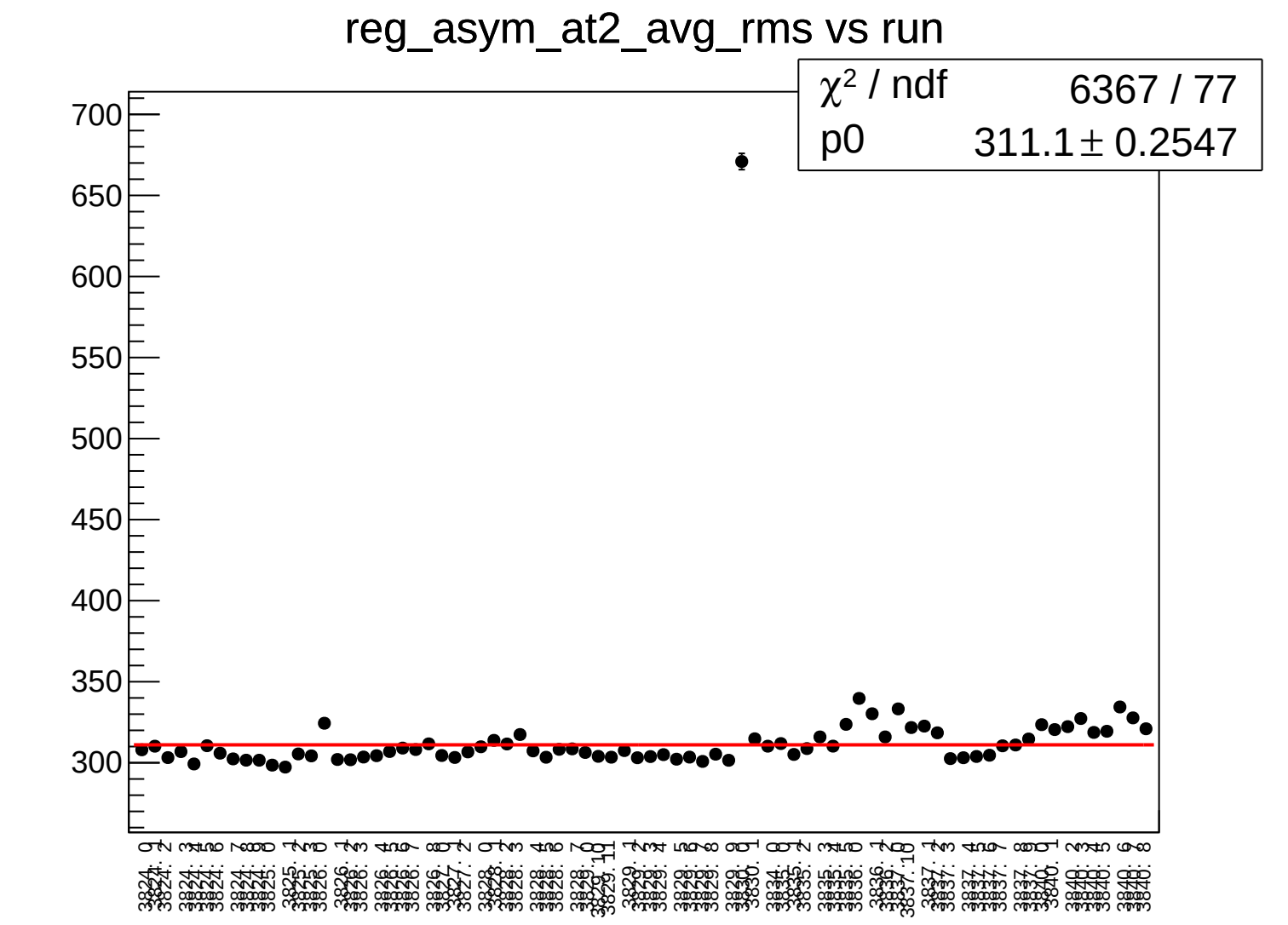

asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 61.1 / 77
p0 1391 ± 1698
100
50
0
−50
−100
pull
Entries 78
Mean 131.9
Std Dev 107.9
2
1
0
−1
−2

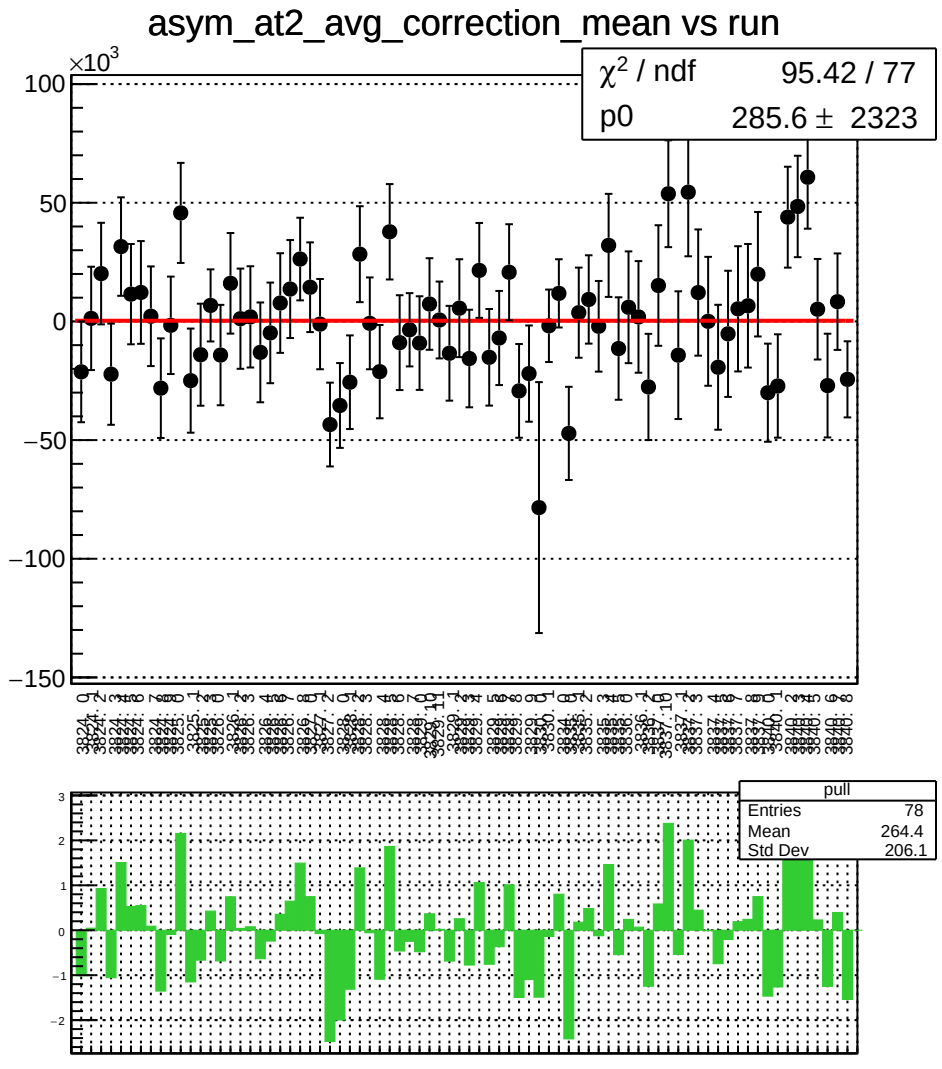

pull1D
Entries 78
Mean 0.003098
Std Dev 0.8851
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

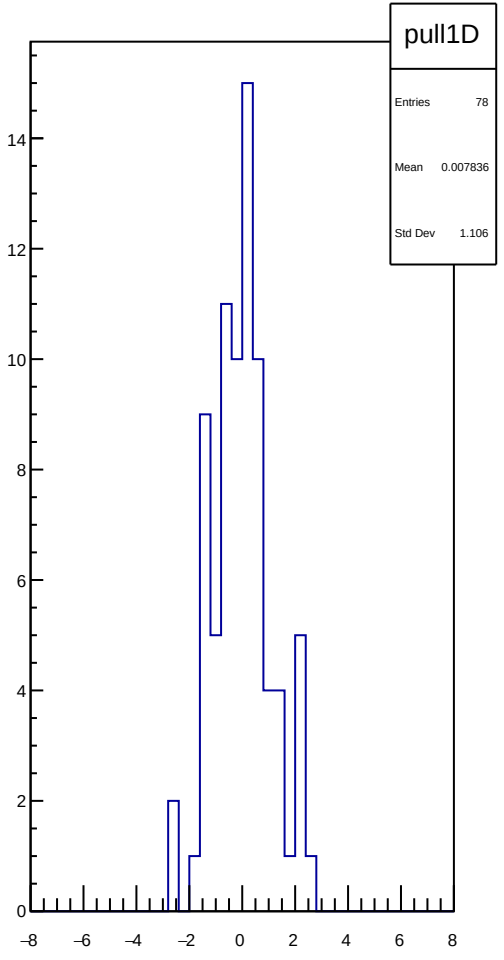

asym_at1_dd_rms vs run
χ² / ndf 3.792e+04 / 77
p0 1450 ± 1.2
5000
4000
3000
2000
1000

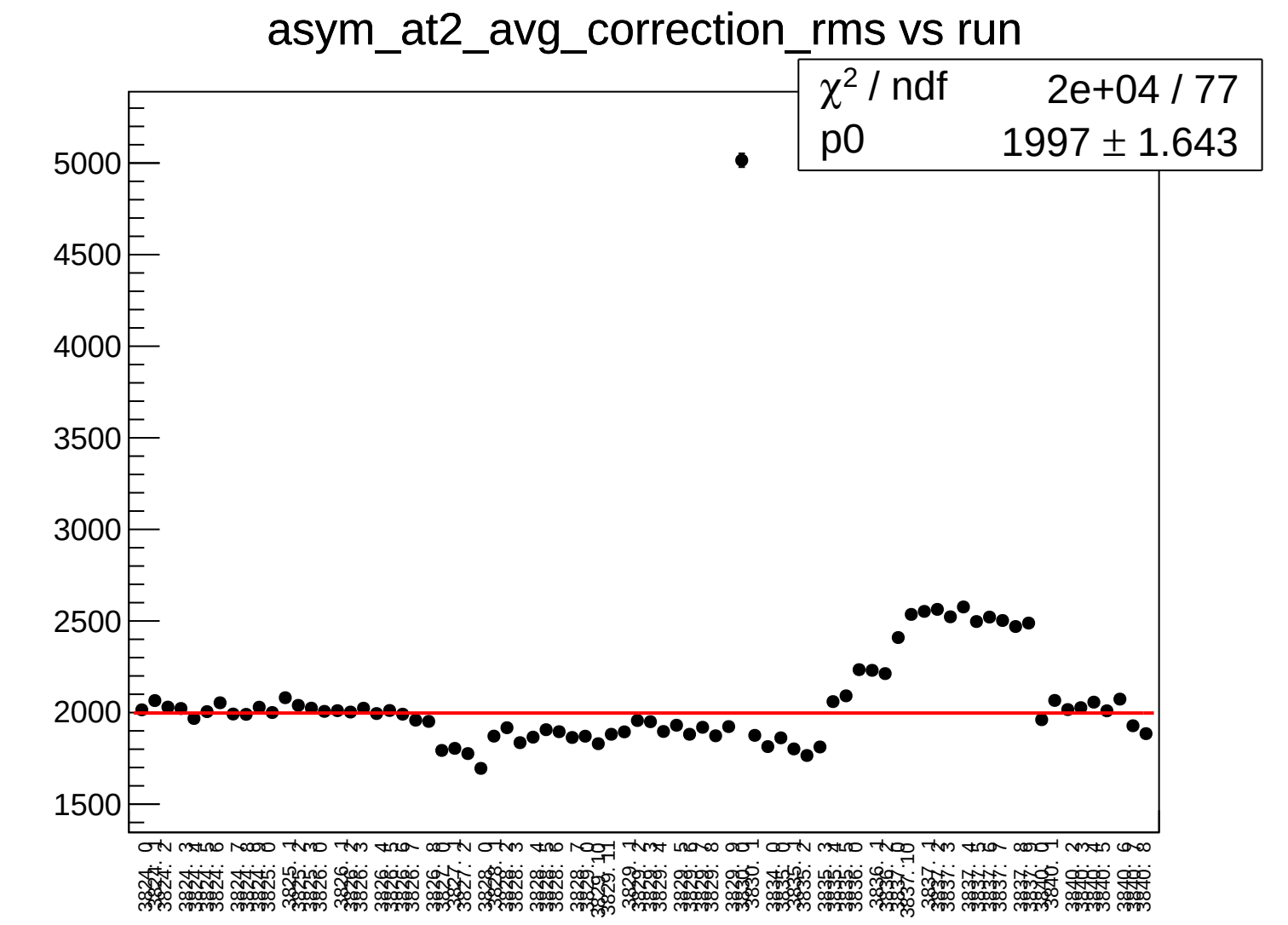

reg_asym_at2_avg_mean vs run
χ² / ndf 51.76 / 77
p0 −237.4 ± 360.2
pull
Entries 78
Mean −328.6
Std Dev 363.5

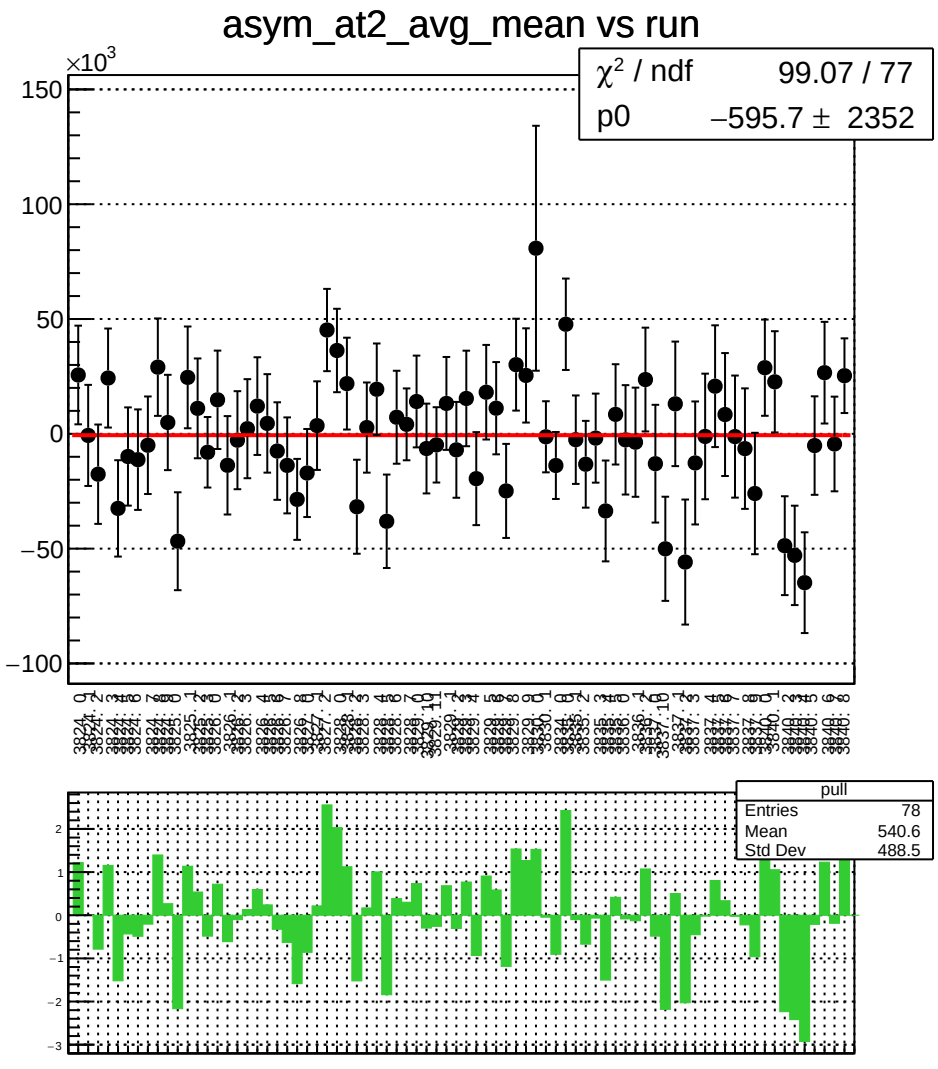

pull1D
Entries 78
Mean 0.009337
Std Dev 0.8145

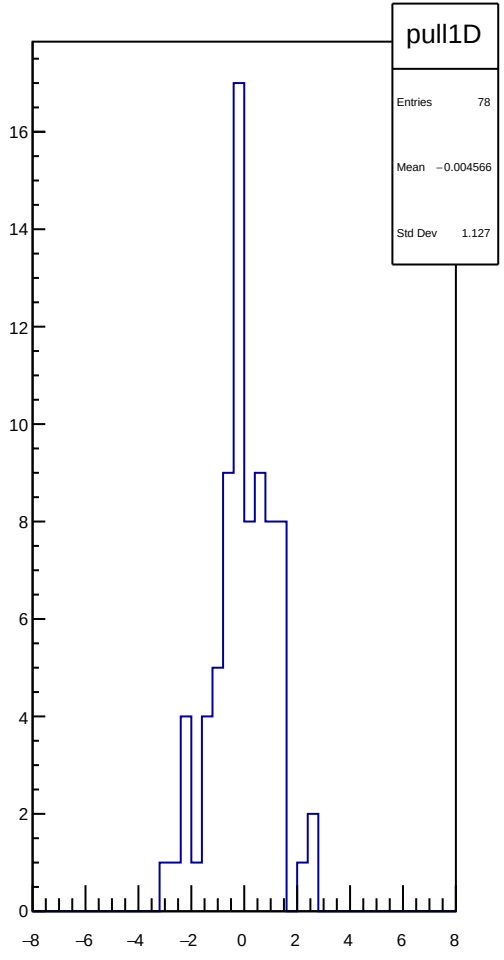

reg_asym_at2_avg_rms vs run
χ² / ndf 6367 / 77
p0 311.1 ± 0.2547
700
650
600
550
500
450
400
350
300

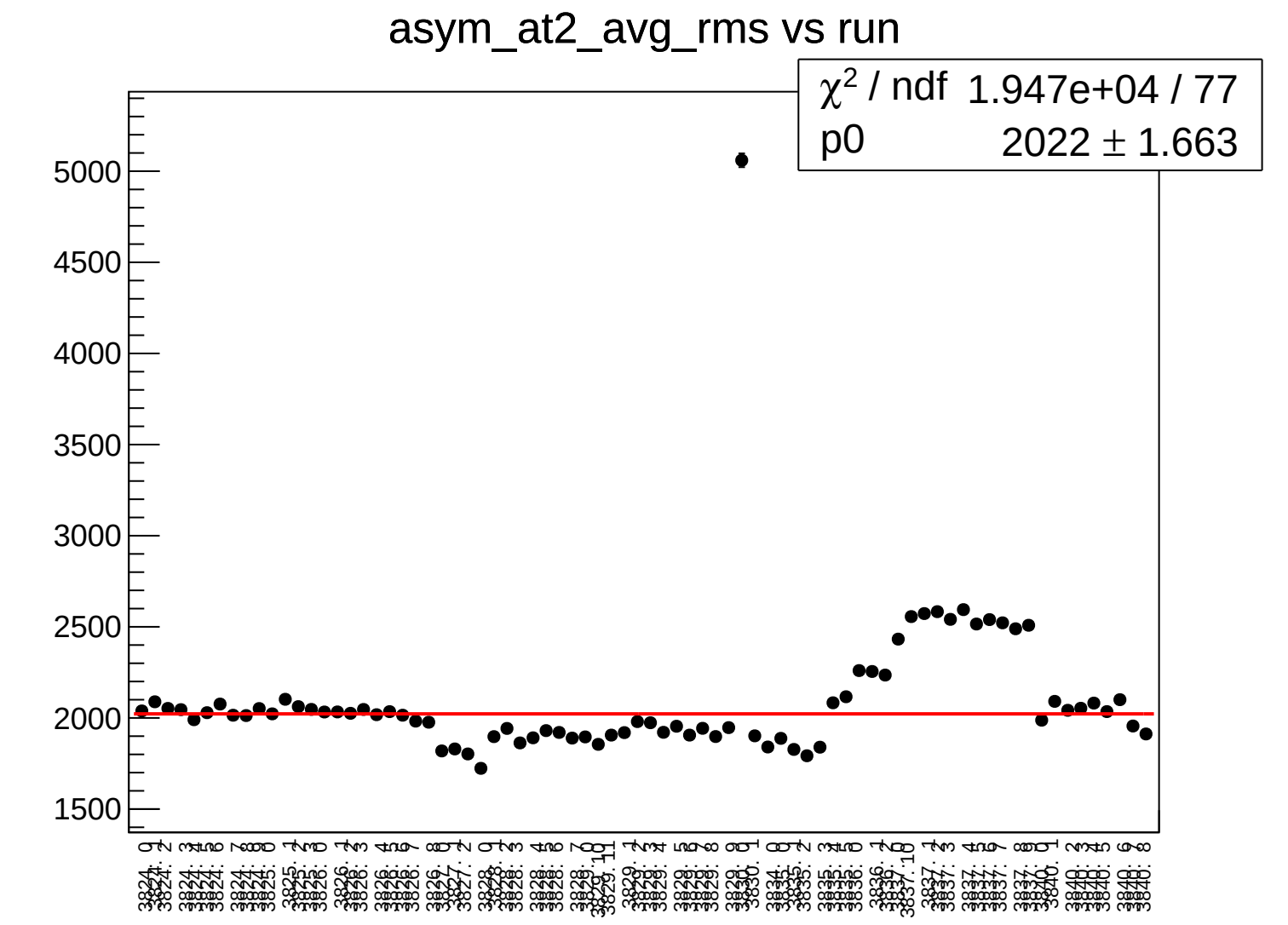

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 95.42 / 77
p0 285.6 ± 2323
pull
Entries 78
Mean 264.4
Std Dev 206.1

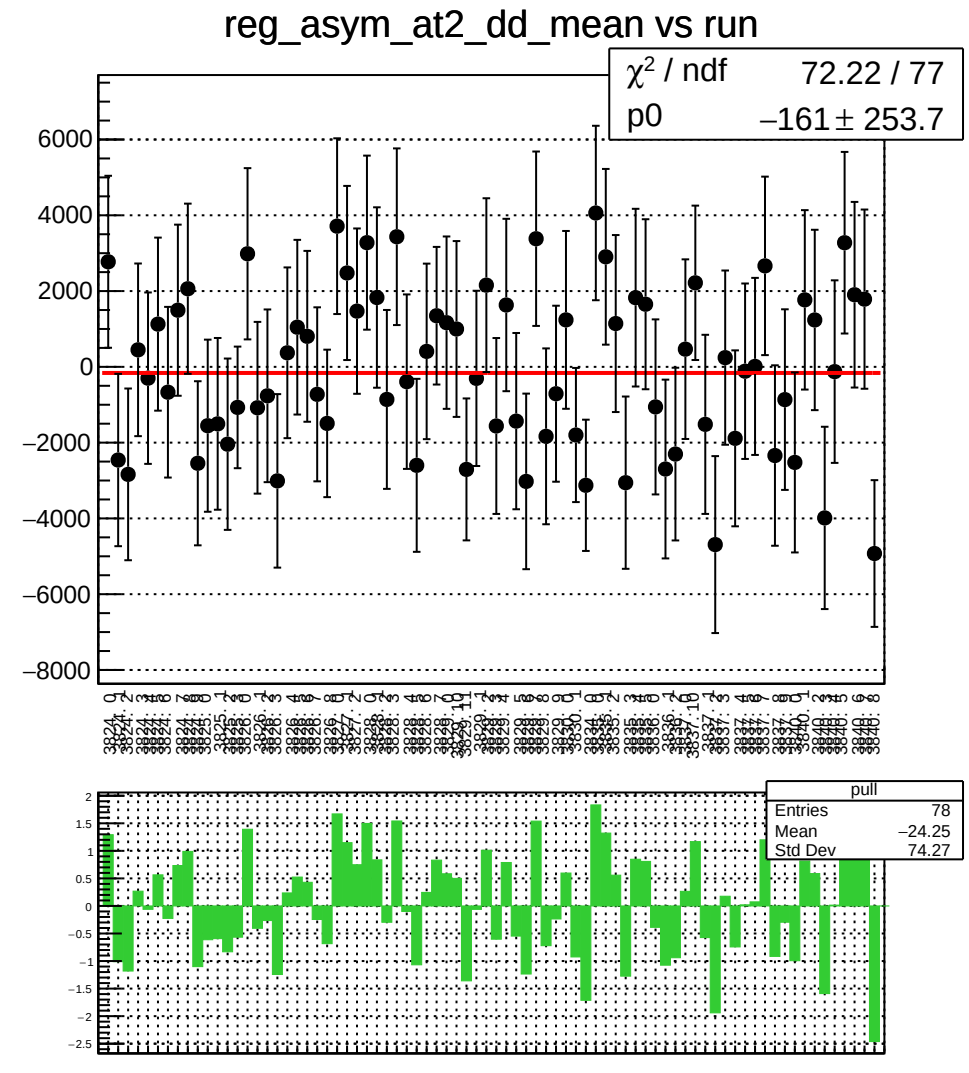

pull1D
Entries 78
Mean 0.007836
Std Dev 1.106

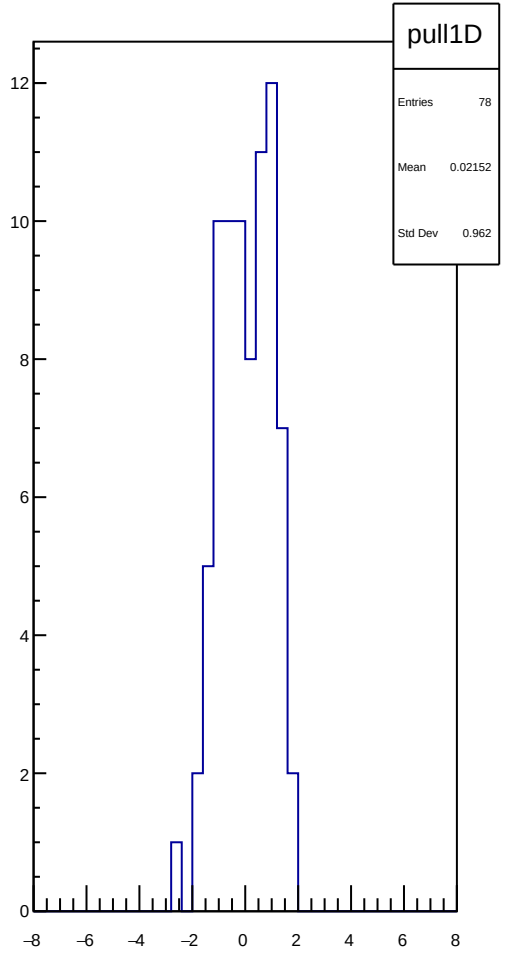

asym_at2_avg_correction_rms vs run
χ² / ndf 2e+04 / 77
p0 1997 ± 1.643
5000
4500
4000
3500
3000
2500
2000
1500

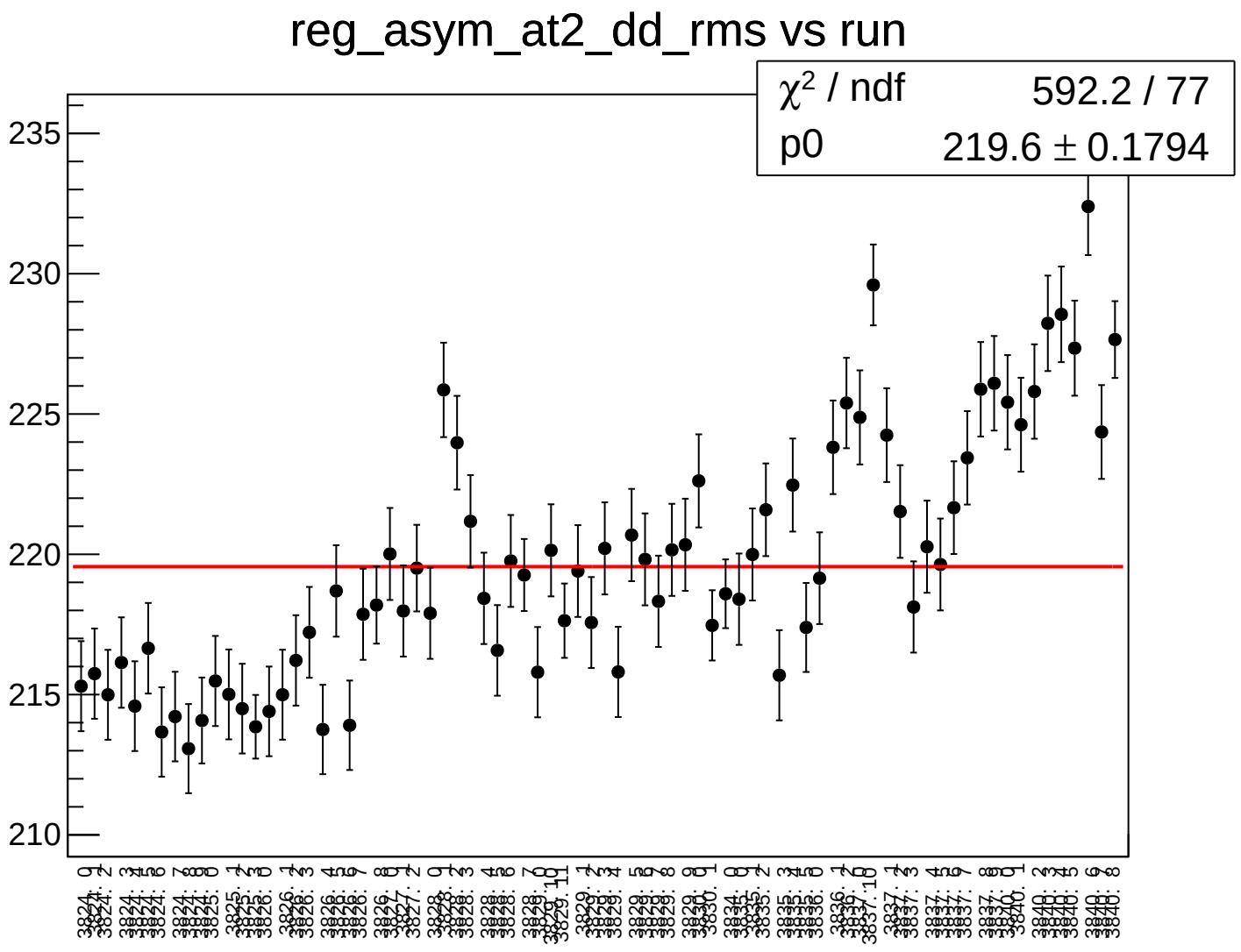

asym_at2_avg_mean vs run
×10^3
χ² / ndf 99.07 / 77
p0 −595.7 ± 2352
150
100
50
0
−50
−100
pull
Entries 78
Mean 540.6
Std Dev 488.5
2
1
0
−1
−2
−3

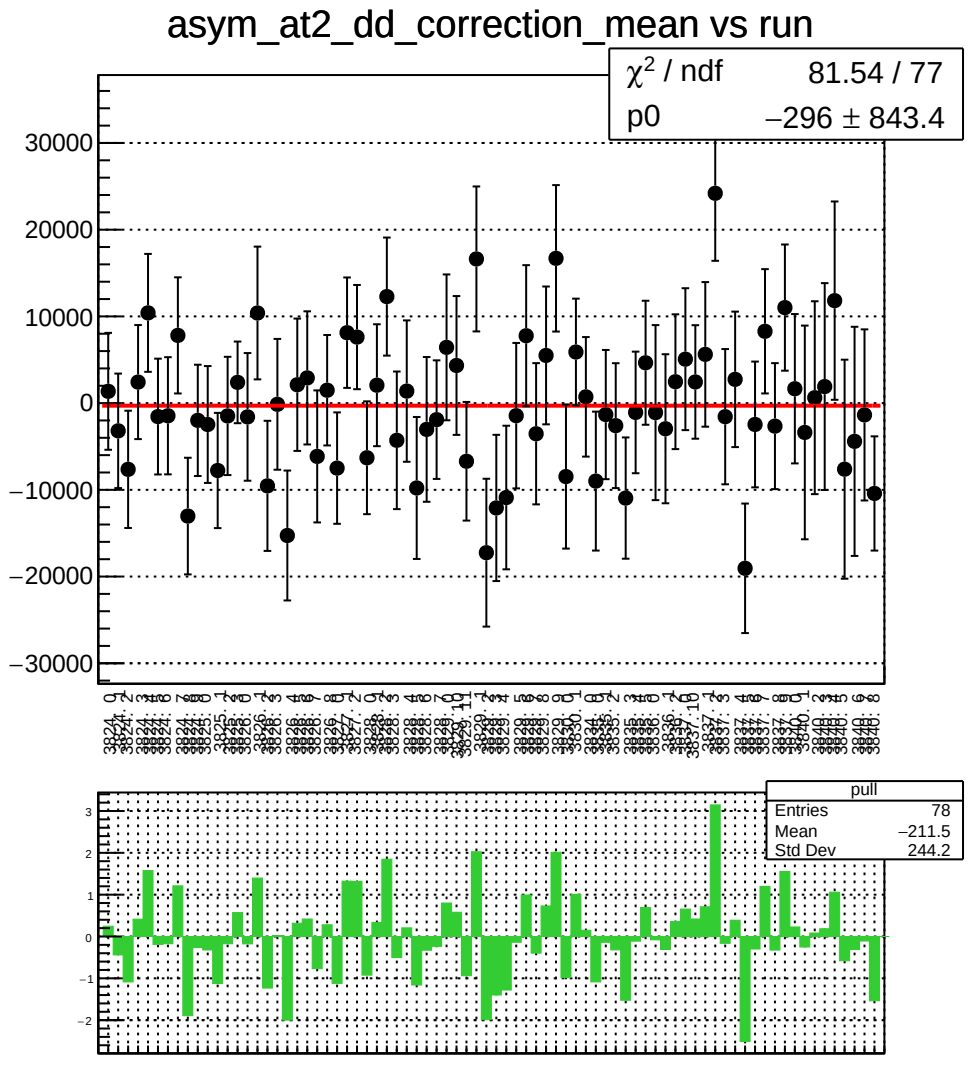

pull1D
Entries 78
Mean −0.004566
Std Dev 1.127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

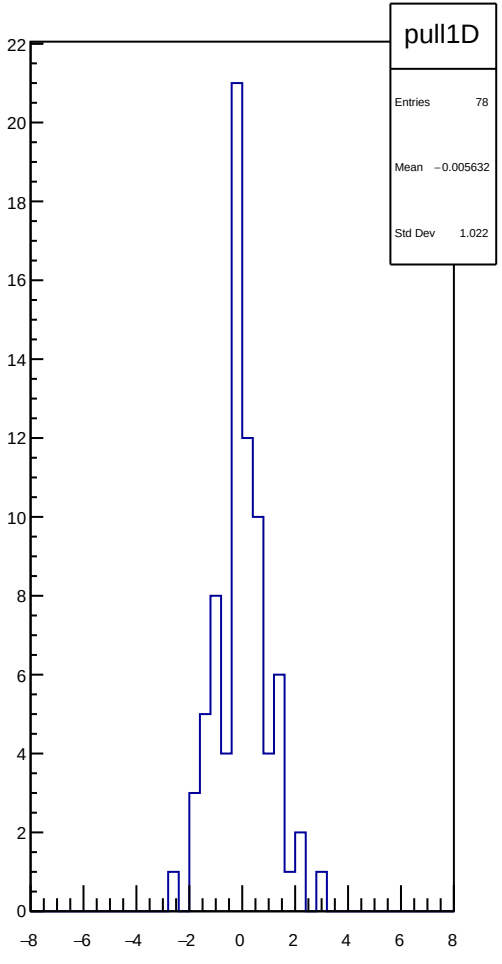

asym_at2_avg_rms vs run
χ² / ndf 1.947e+04 / 77
p0 2022 ± 1.663
5000
4500
4000
3500
3000
2500
2000
1500

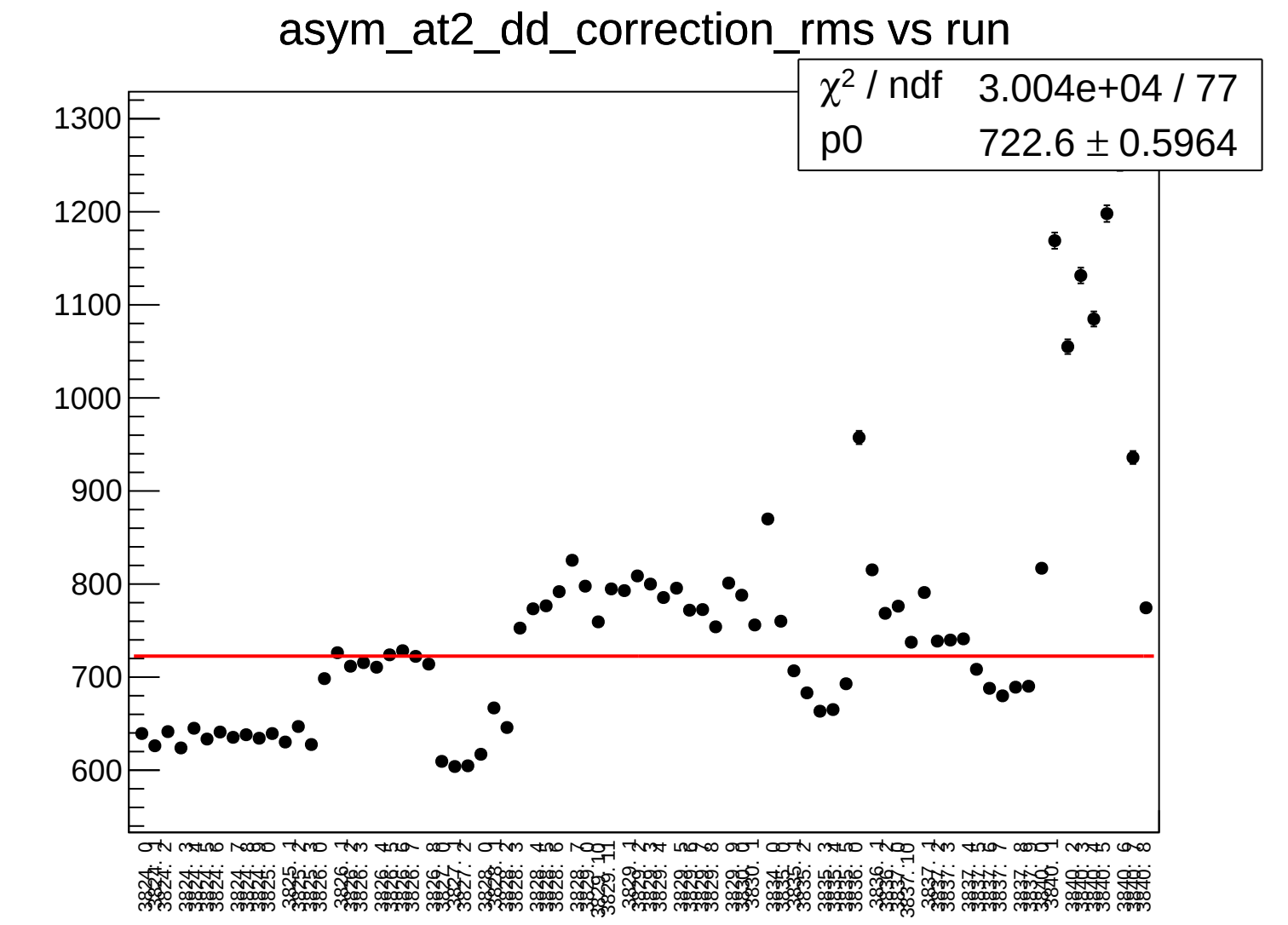

reg_asym_at2_dd_mean vs run
χ² / ndf 72.22 / 77
p0 −161 ± 253.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 78
Mean −24.25
Std Dev 74.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

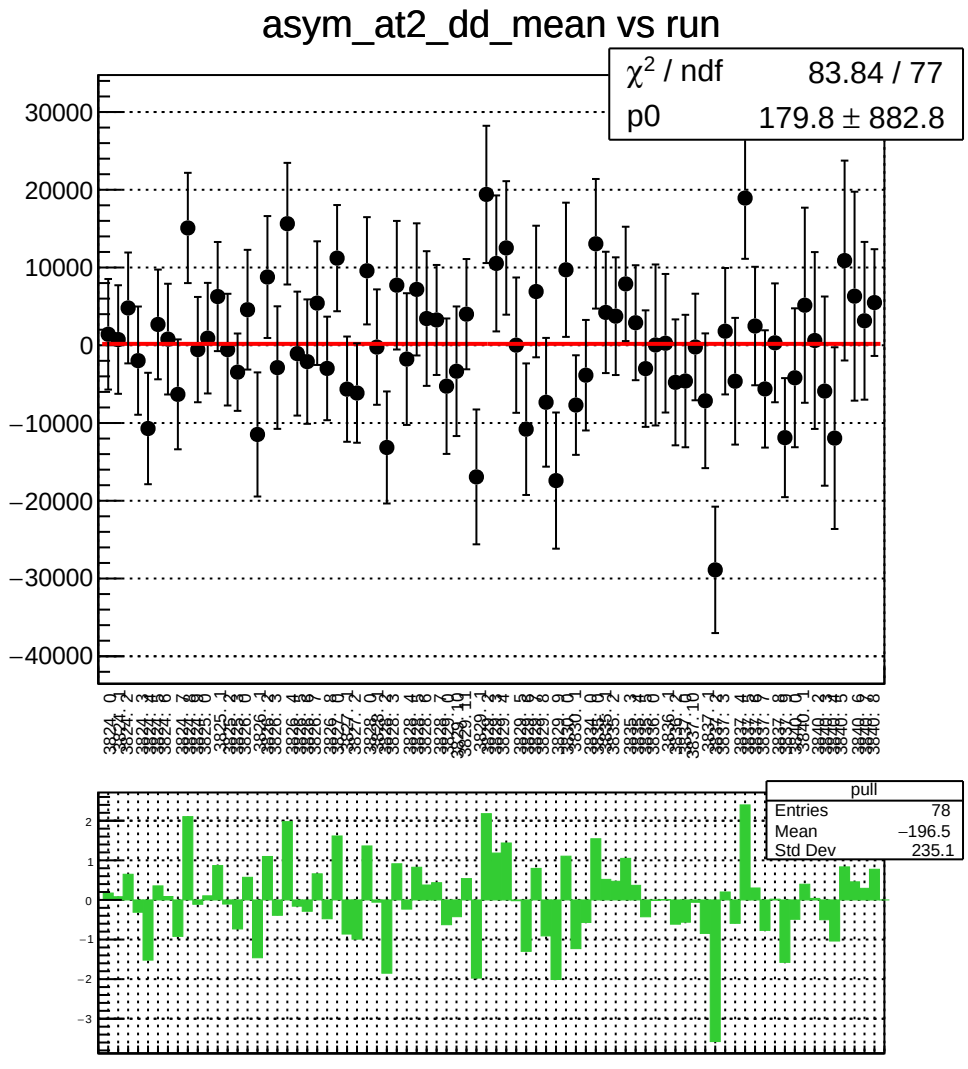

pull1D
Entries 78
Mean 0.02152
Std Dev 0.962
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

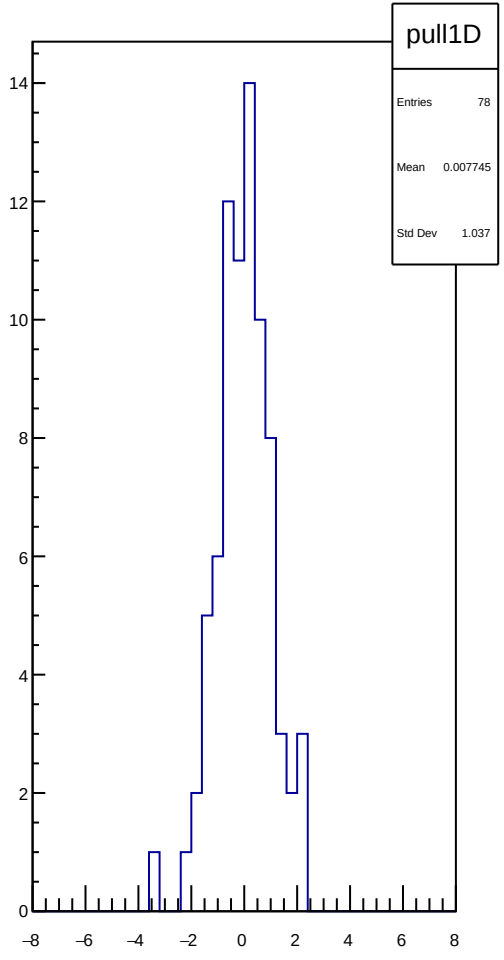

reg_asym_at2_dd_rms vs run
χ² / ndf 592.2 / 77
p0 219.6 ± 0.1794
235
230
225
220
215
210

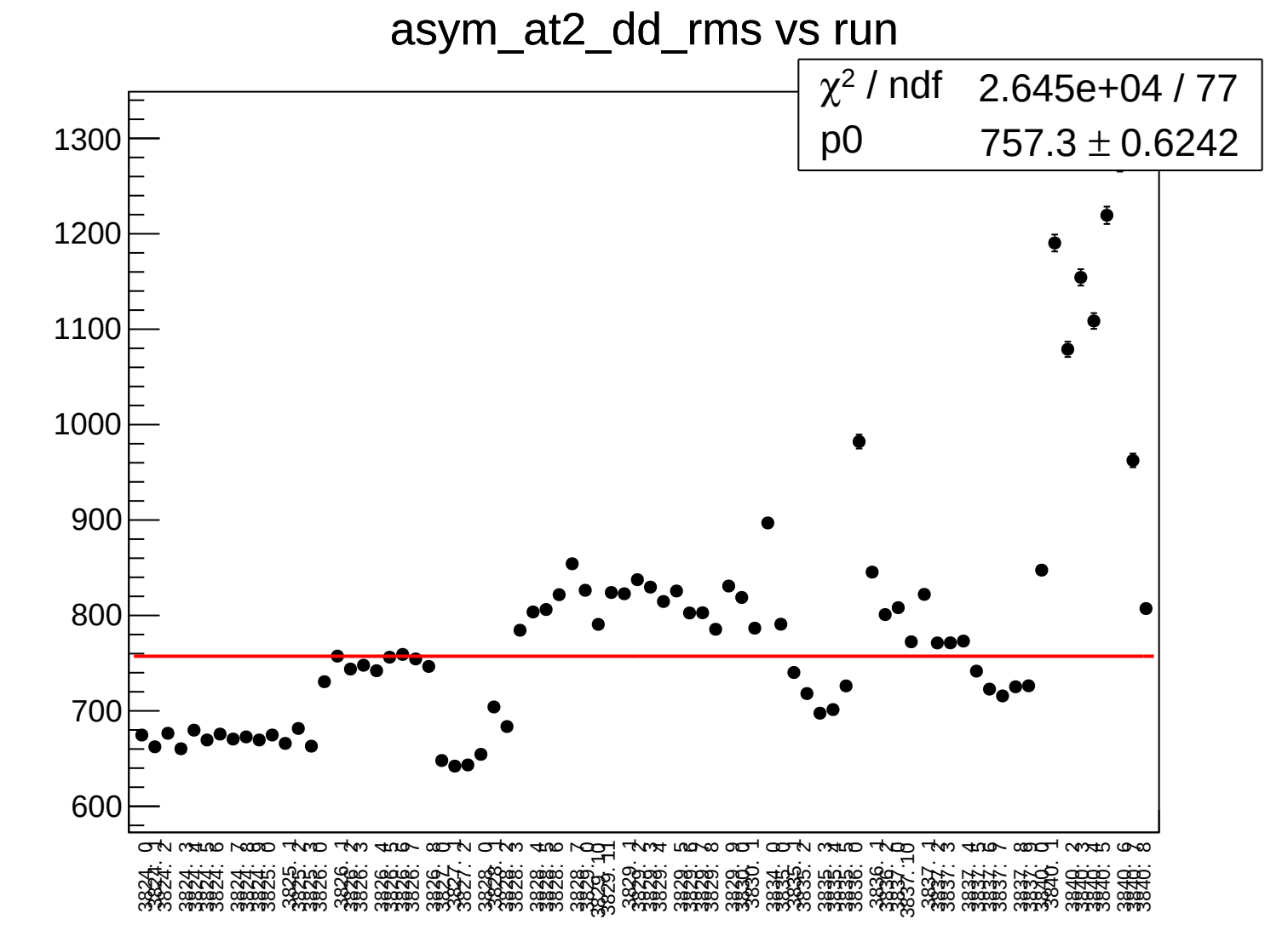

asym_at2_dd_correction_mean vs run
χ² / ndf 81.54 / 77
p0 −296 ± 843.4
pull
Entries 78
Mean −211.5
Std Dev 244.2

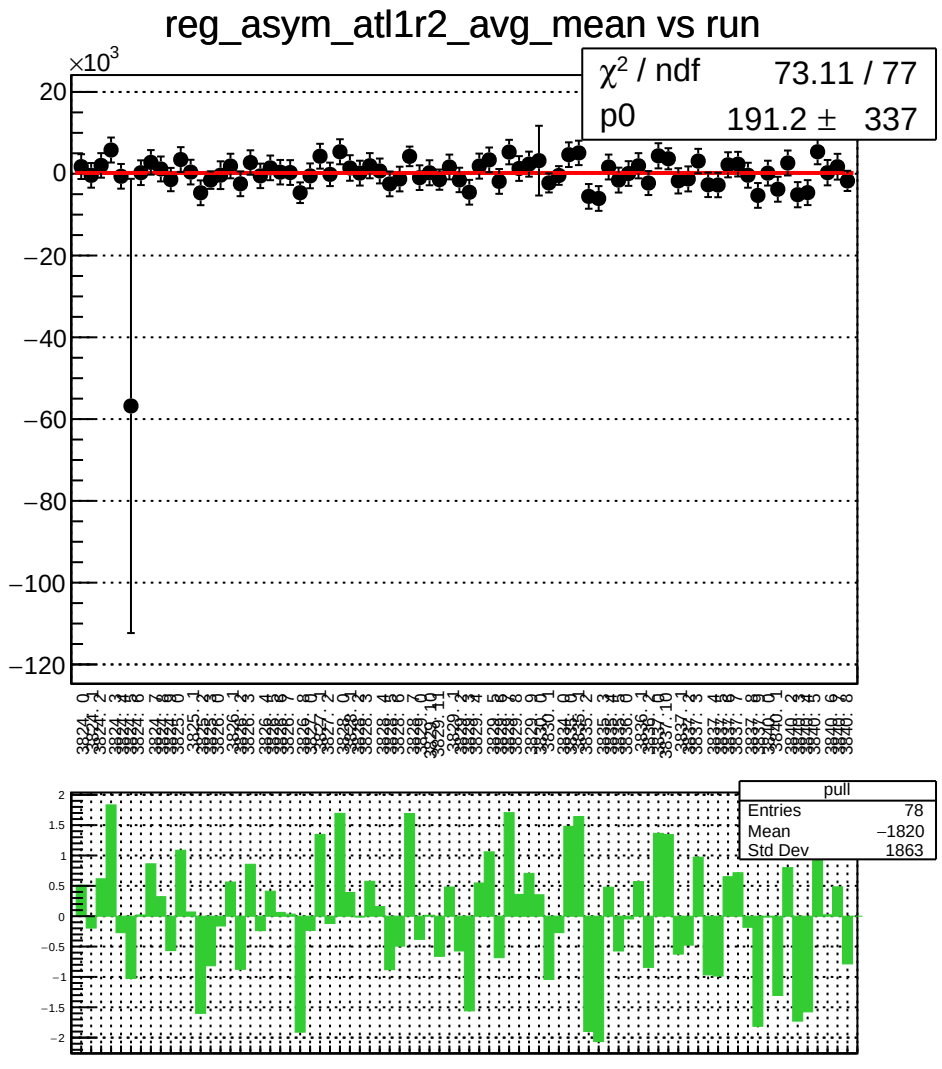

pull1D
Entries 78
Mean −0.005632
Std Dev 1.022

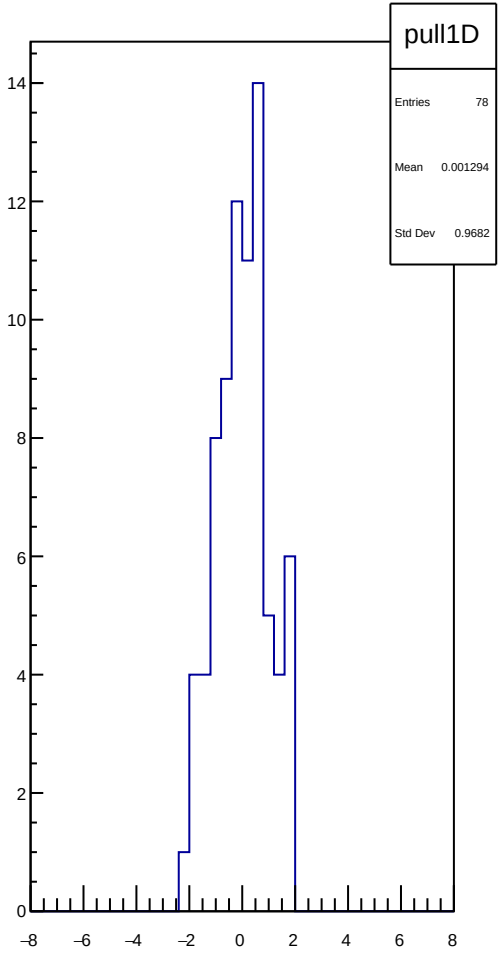

asym_at2_dd_correction_rms vs run
χ² / ndf 3.004e+04 / 77
p0 722.6 ± 0.5964
1300
1200
1100
1000
900
800
700
600

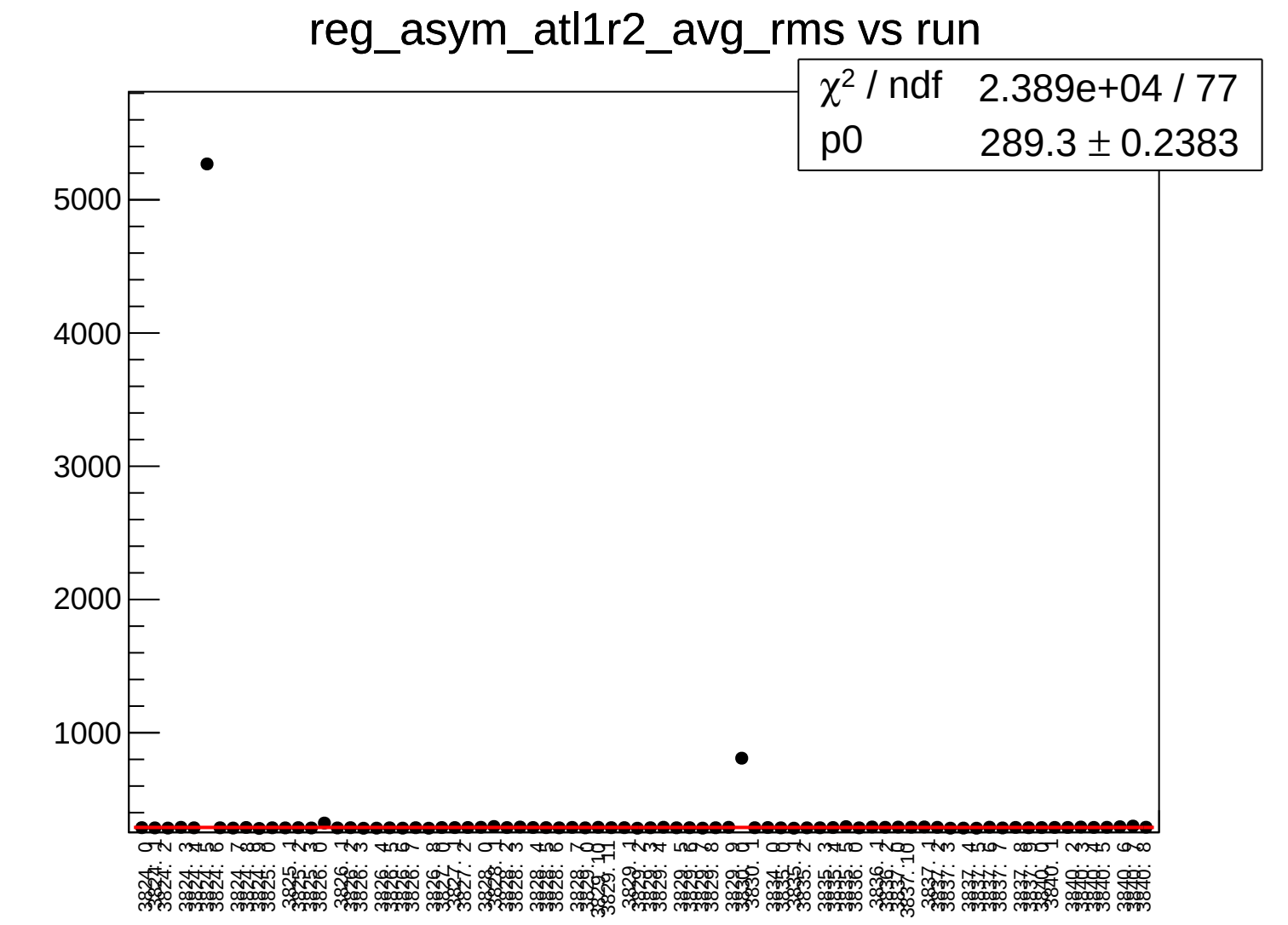

asym_at2_dd_mean vs run
χ² / ndf 83.84 / 77
p0 179.8 ± 882.8
pull
Entries 78
Mean −196.5
Std Dev 235.1

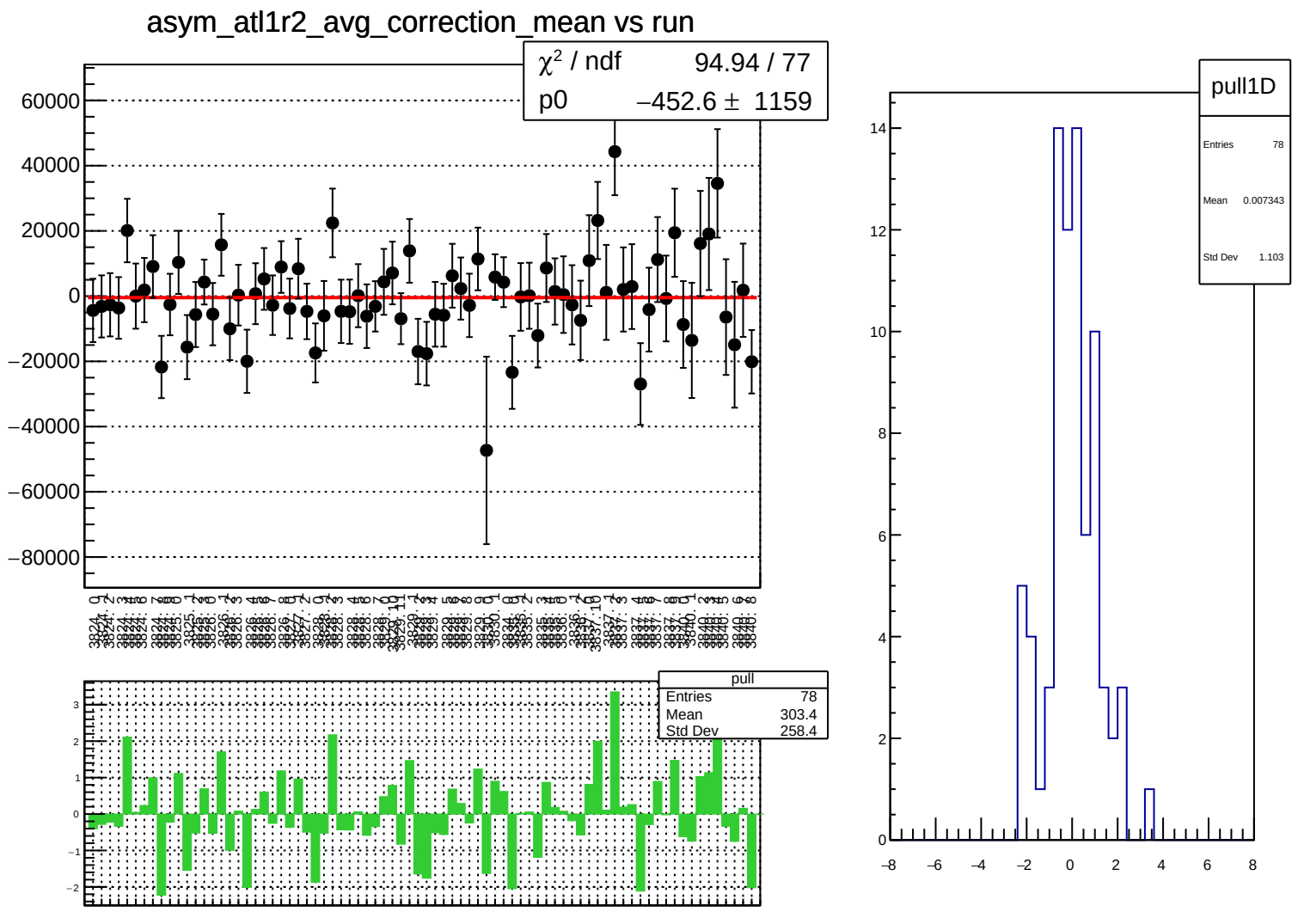

pull1D
Entries 78
Mean 0.007745
Std Dev 1.037

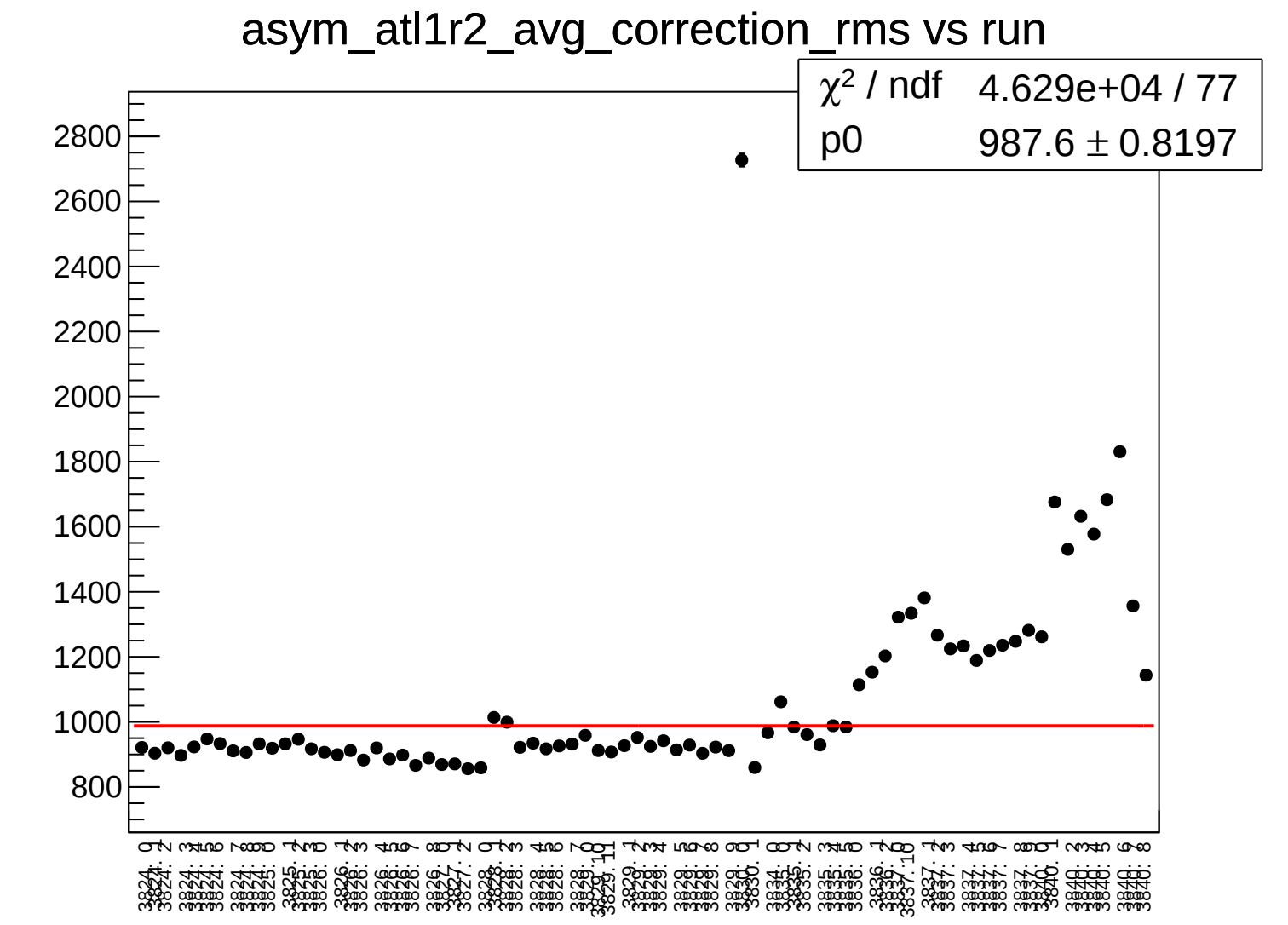

asym_at2_dd_rms vs run
χ² / ndf 2.645e+04 / 77
p0 757.3 ± 0.6242
1300
1200
1100
1000
900
800
700
600

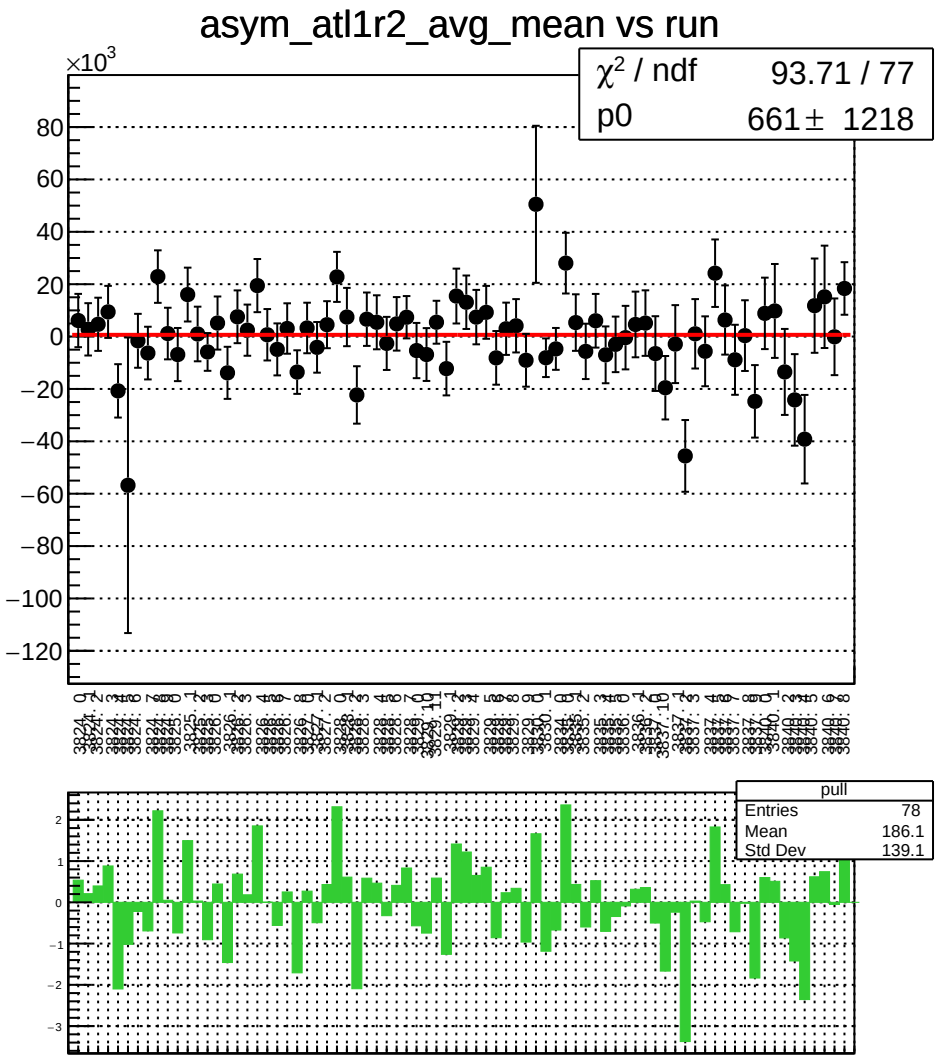

reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 73.11 / 77
p0 191.2 ± 337
pull
Entries 78
Mean −1820
Std Dev 1863

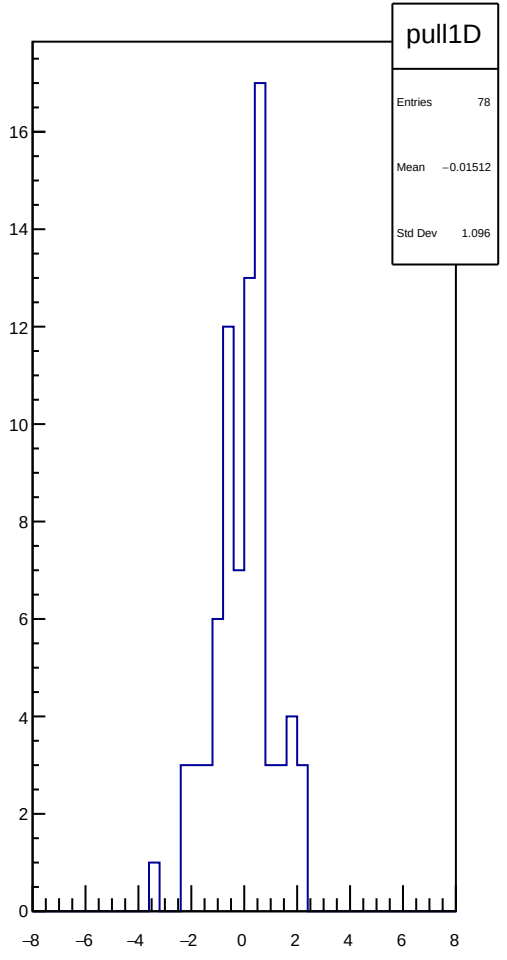

pull1D
Entries 78
Mean 0.001294
Std Dev 0.9682

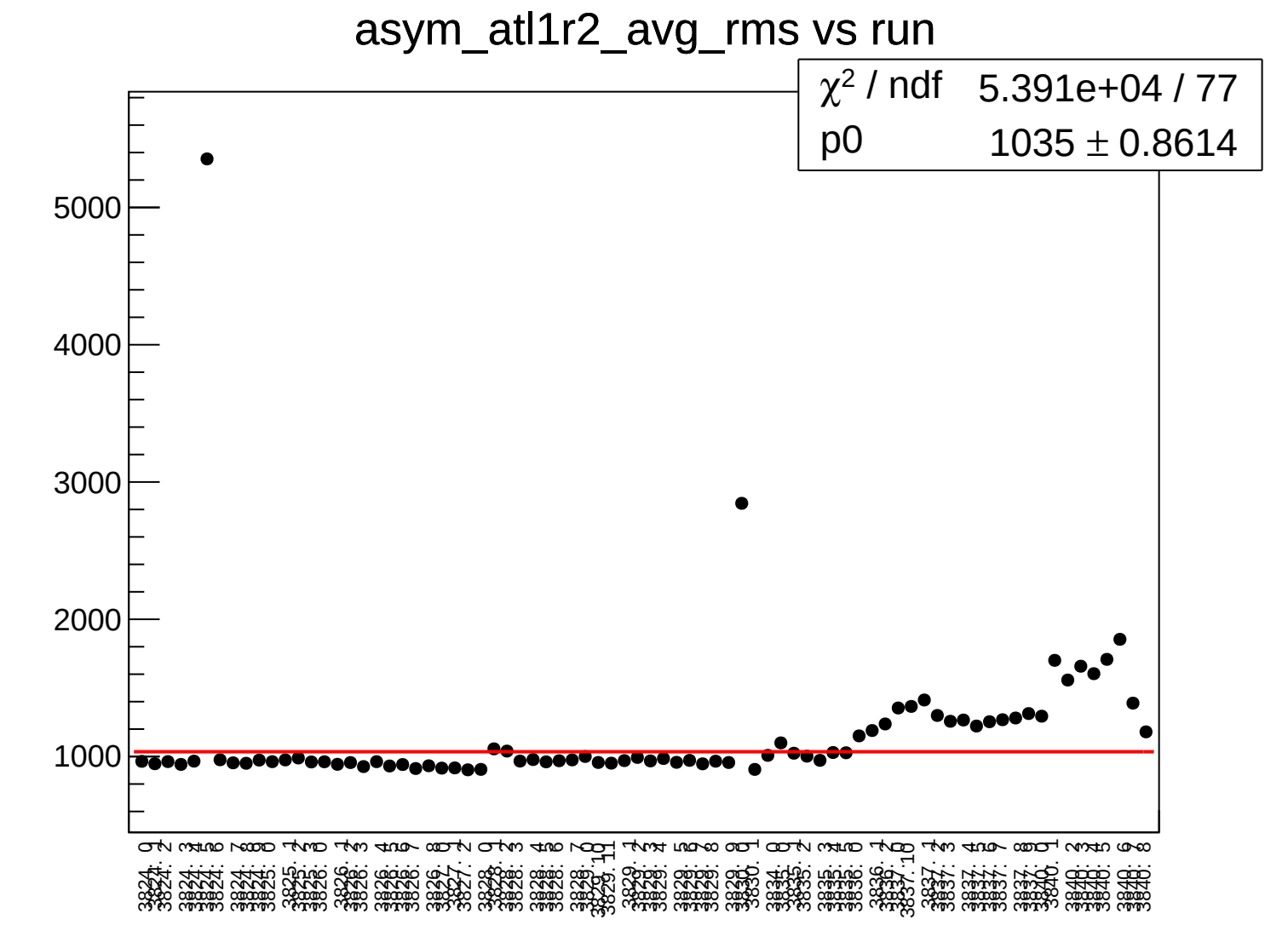

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 2.389e+04 / 77
p0 289.3 ± 0.2383
5000
4000
3000
2000
1000

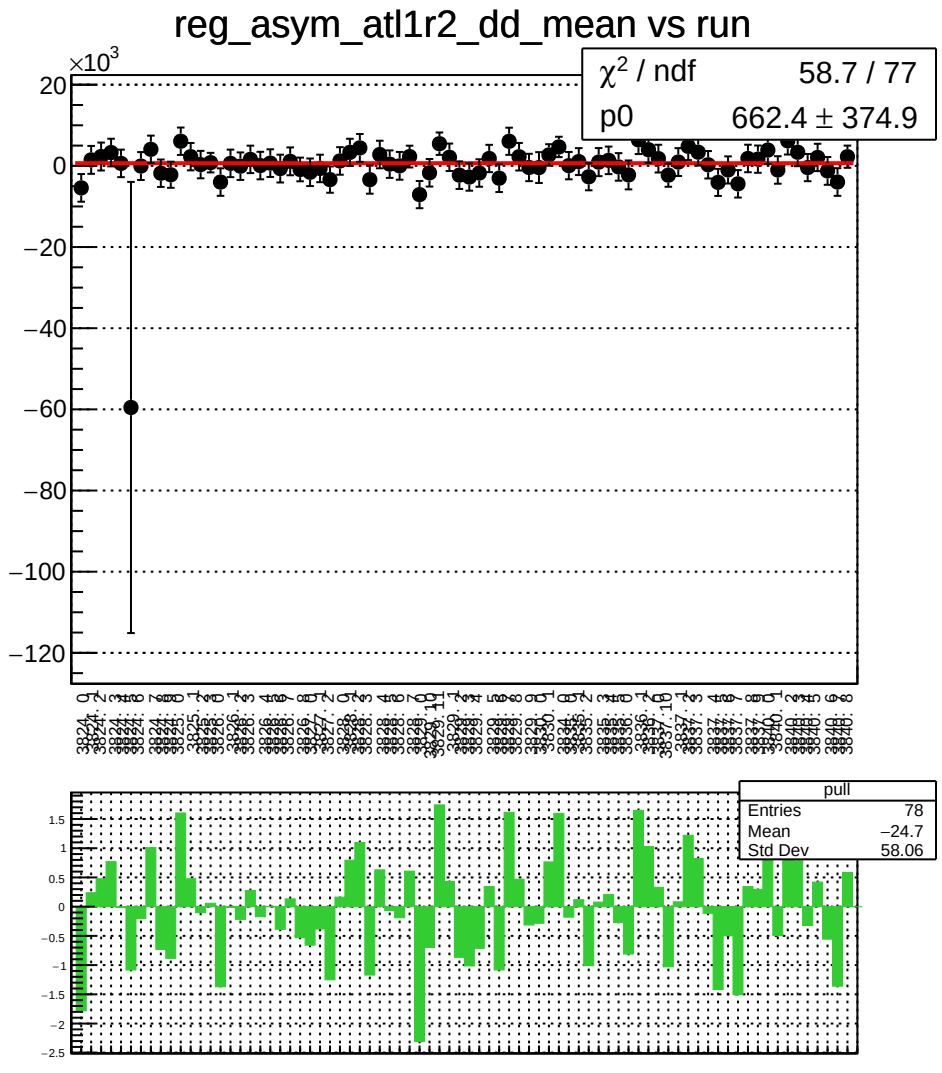

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 94.94 / 77
p0 −452.6 ± 1159
pull
Entries 78
Mean 303.4
Std Dev 258.4
pull1D
Entries 78
Mean 0.007343
Std Dev 1.103

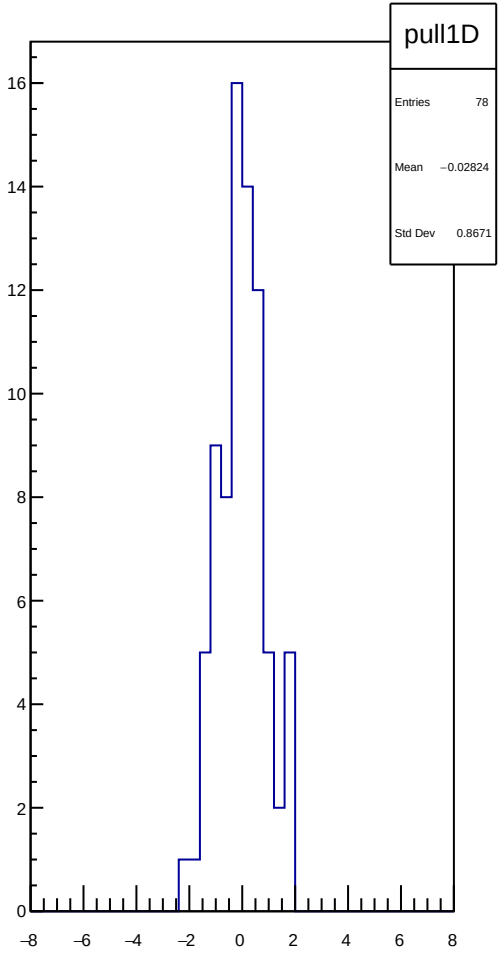

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 4.629e+04 / 77
p0 987.6 ± 0.8197
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

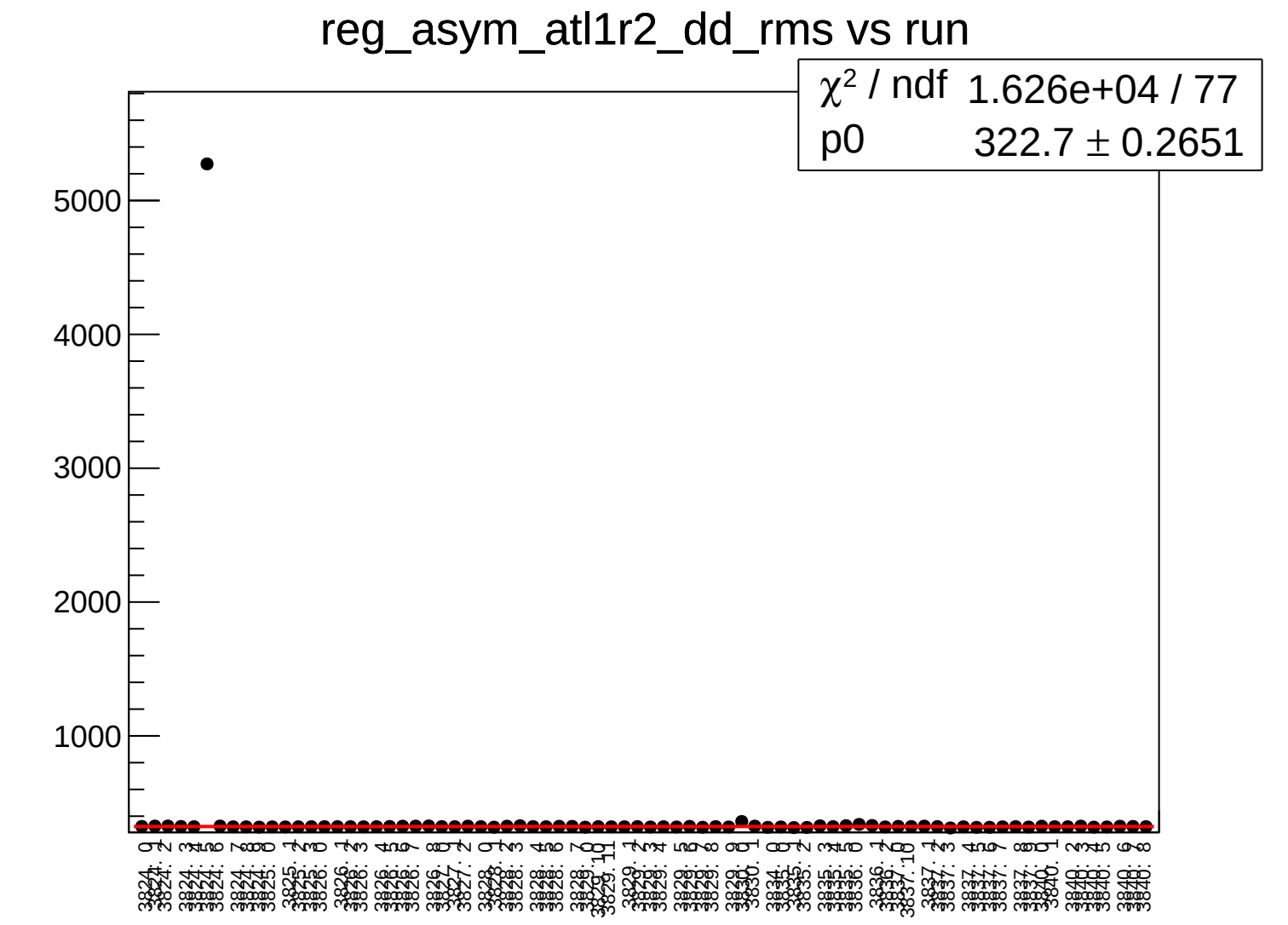

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 93.71 / 77
p0 661 ± 1218
pull
Entries 78
Mean 186.1
Std Dev 139.1

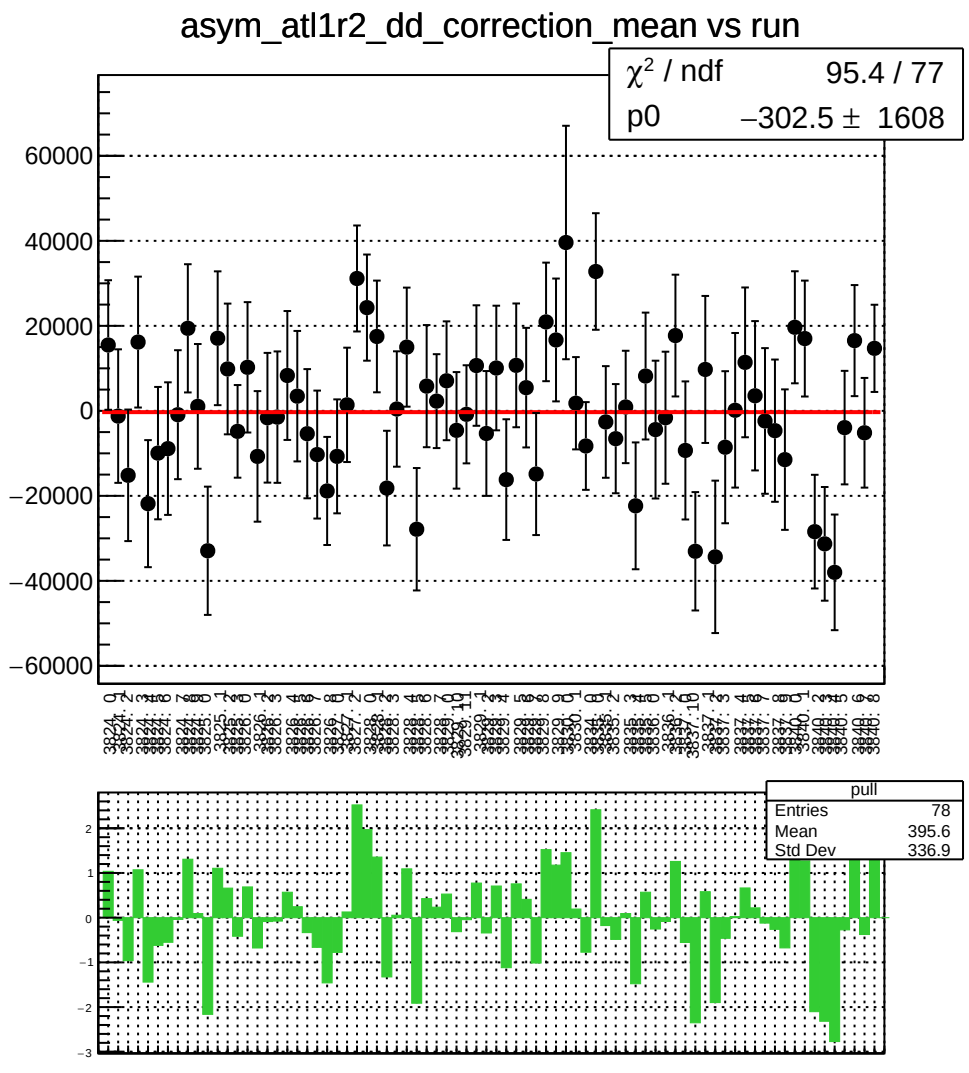

pull1D
Entries 78
Mean −0.01512
Std Dev 1.096

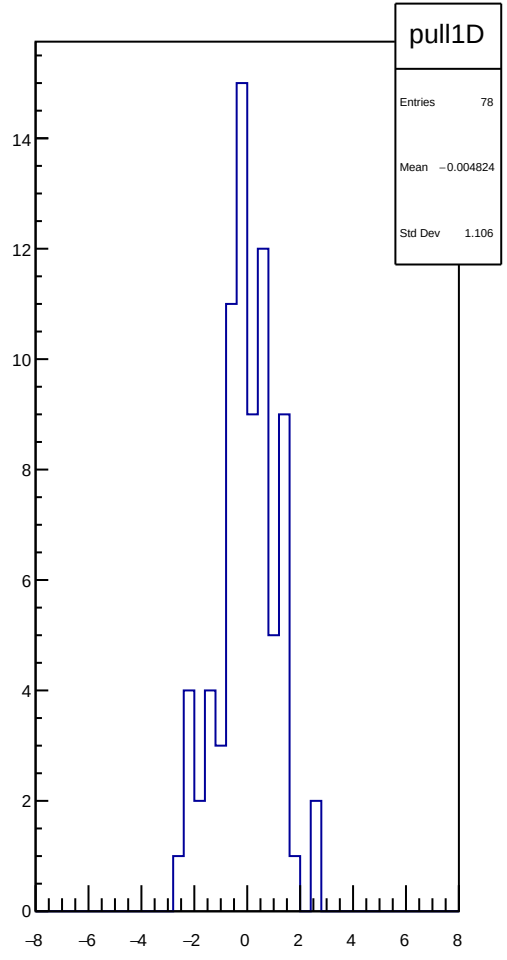

asym_atl1r2_avg_rms vs run
χ^2 / ndf 5.391e+04 / 77
p0 1035 ± 0.8614
5000
4000
3000
2000
1000

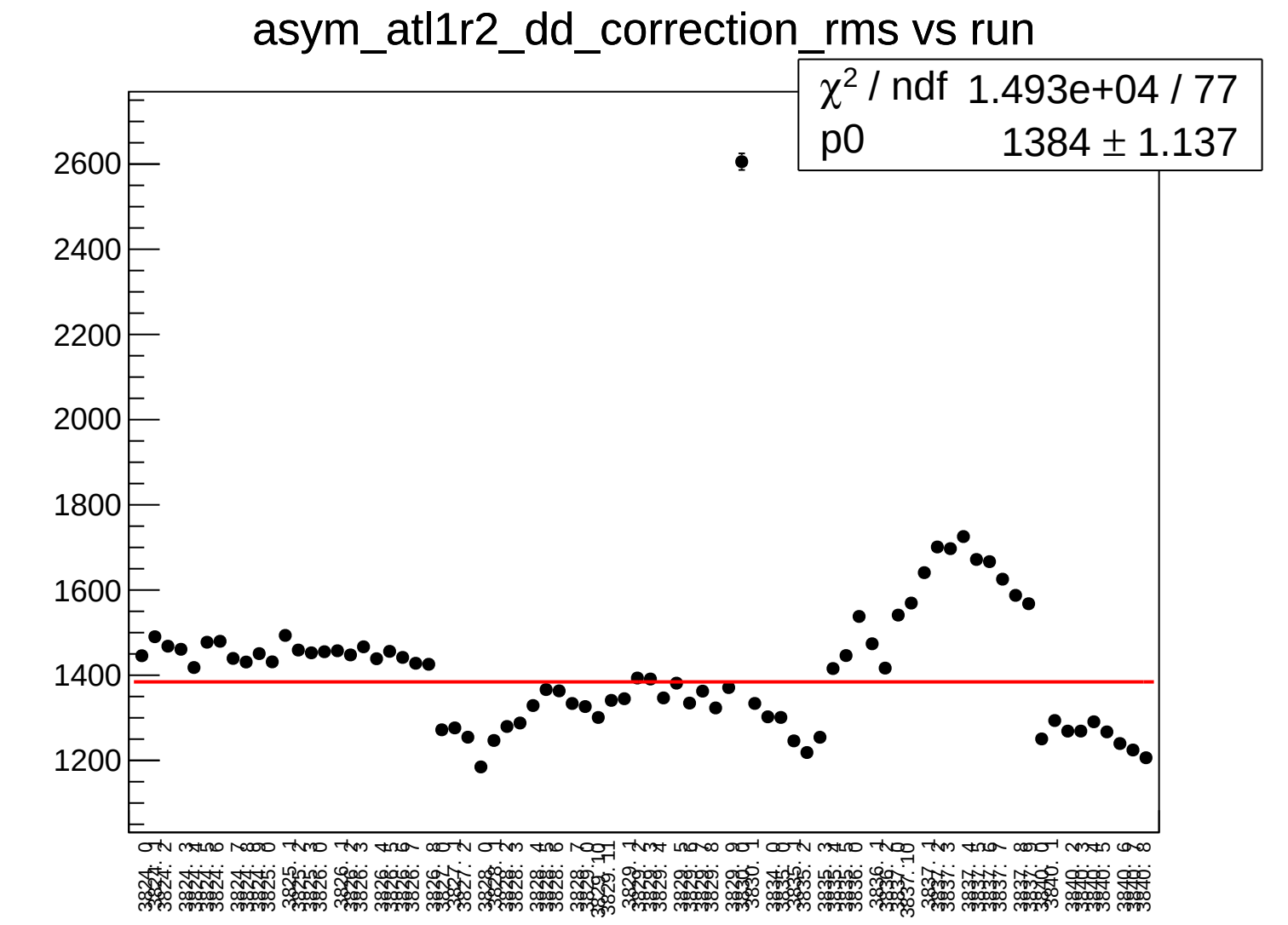

reg_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 58.7 / 77
p0 662.4 ± 374.9
pull
Entries 78
Mean −24.7
Std Dev 58.06

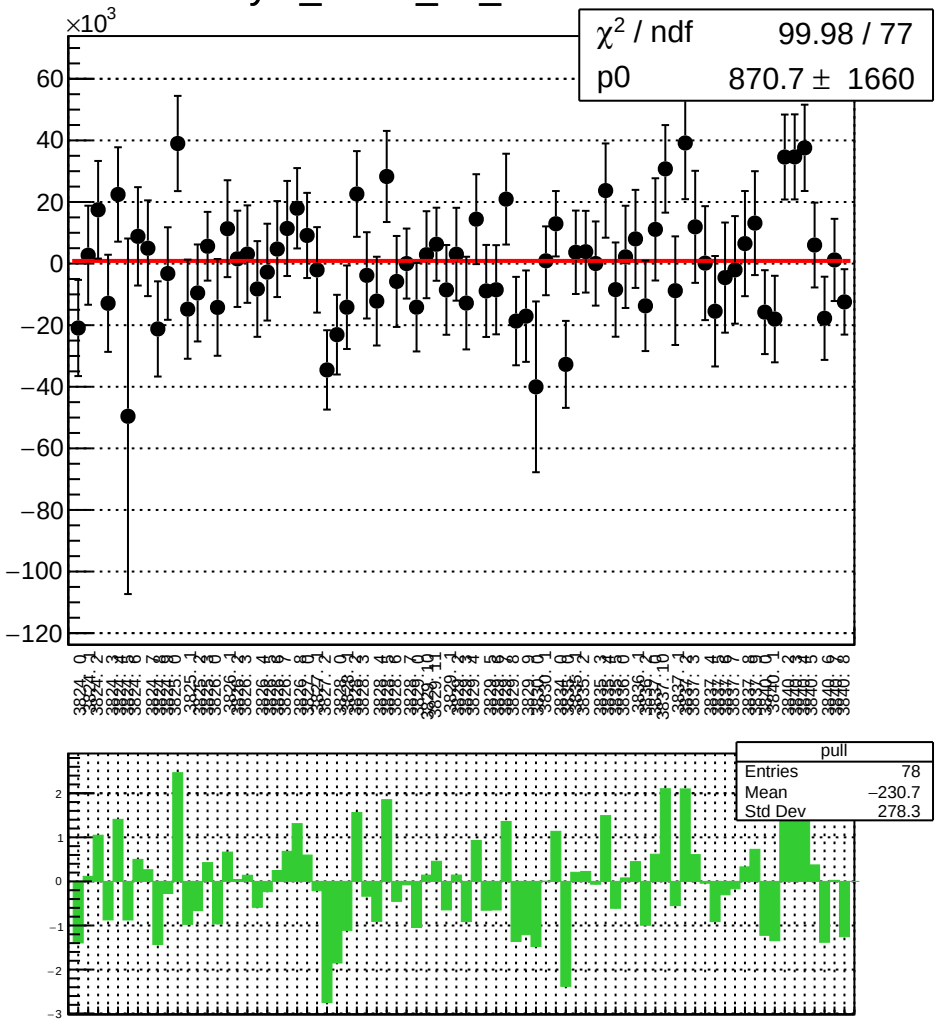

pull1D
Entries 78
Mean −0.02824
Std Dev 0.8671

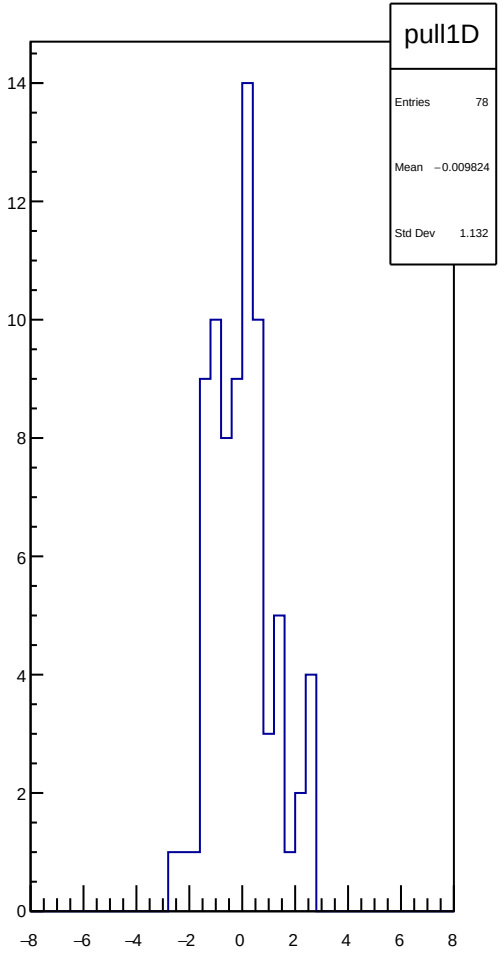

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 1.626e+04 / 77
p0 322.7 ± 0.2651
5000
4000
3000
2000
1000

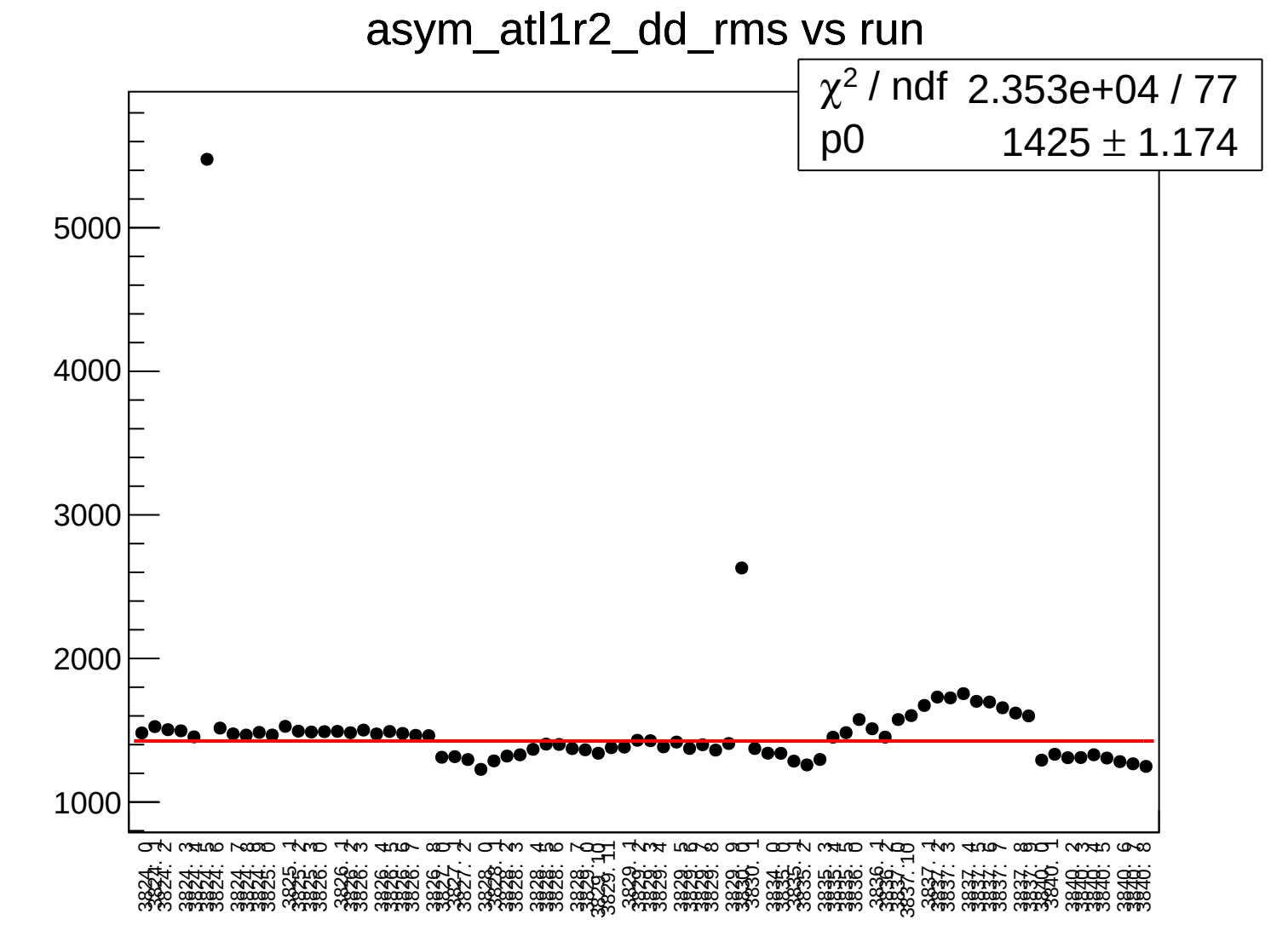

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 95.4 / 77
p0 −302.5 ± 1608
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 78
Mean 395.6
Std Dev 336.9
2
1
0
−1
−2
−3

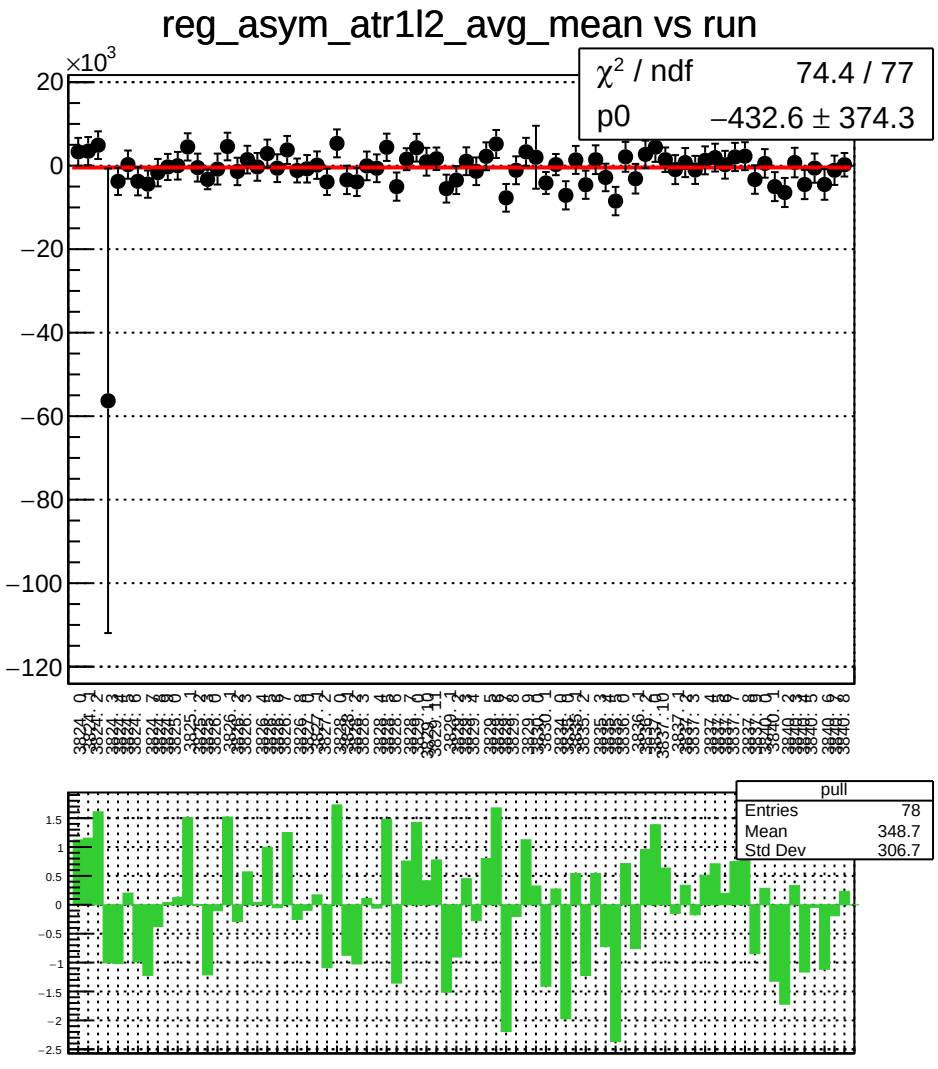

pull1D
Entries 78
Mean −0.004824
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

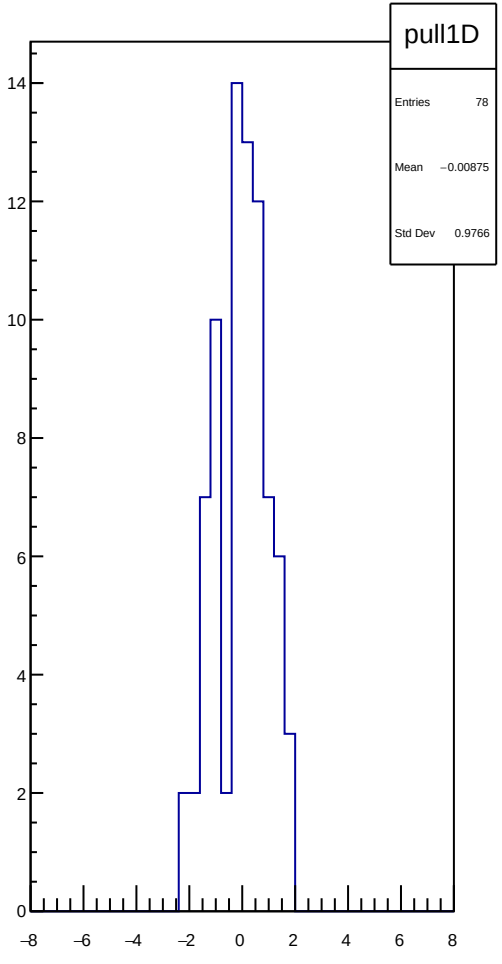

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 1.493e+04 / 77
p0 1384 ± 1.137
2600
2400
2200
2000
1800
1600
1400
1200

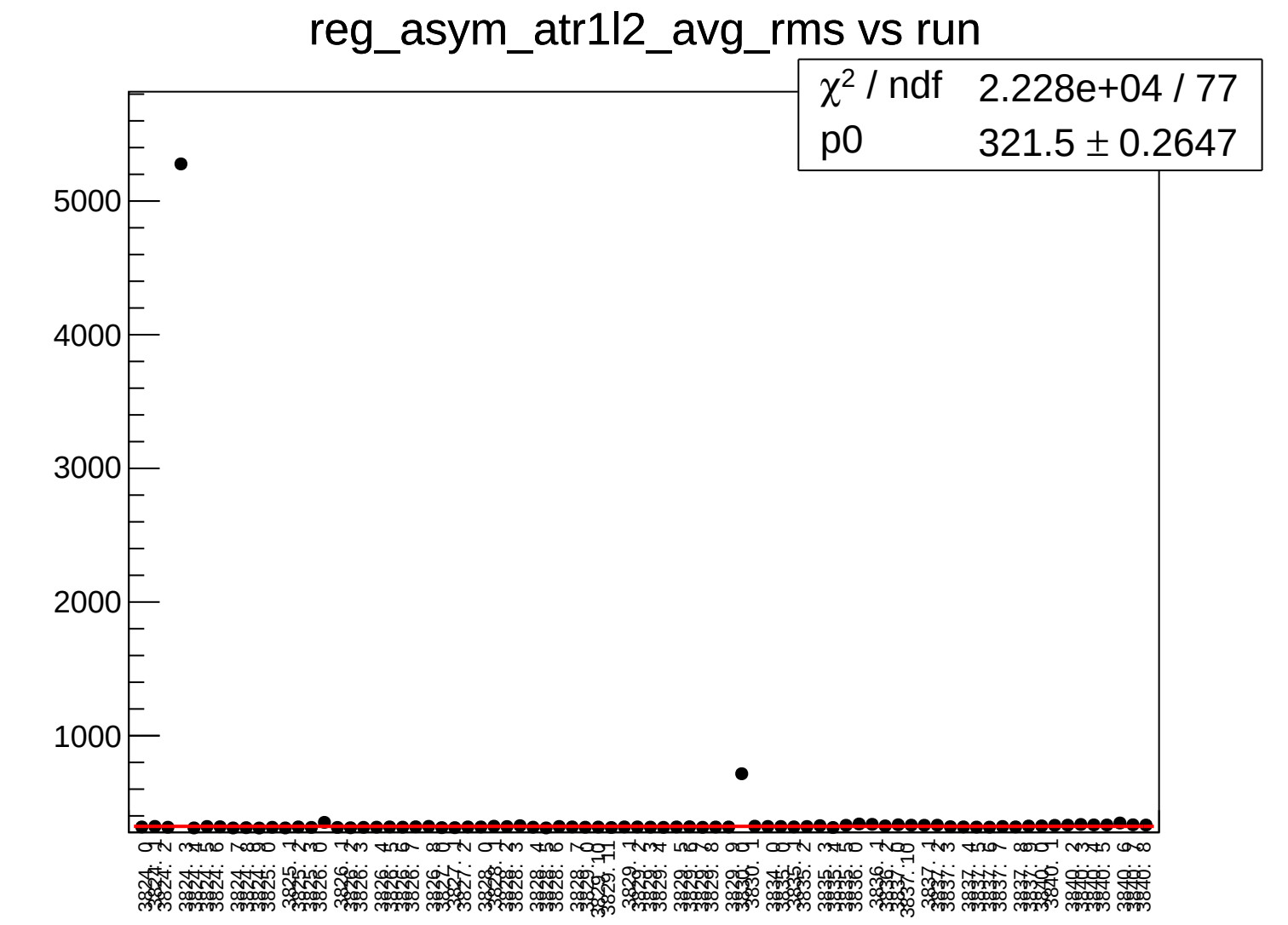

asym_atl1r2_dd_mean vs run
χ² / ndf 99.98 / 77
p0 870.7 ± 1660
×10³
pull
Entries 78
Mean −230.7
Std Dev 278.3

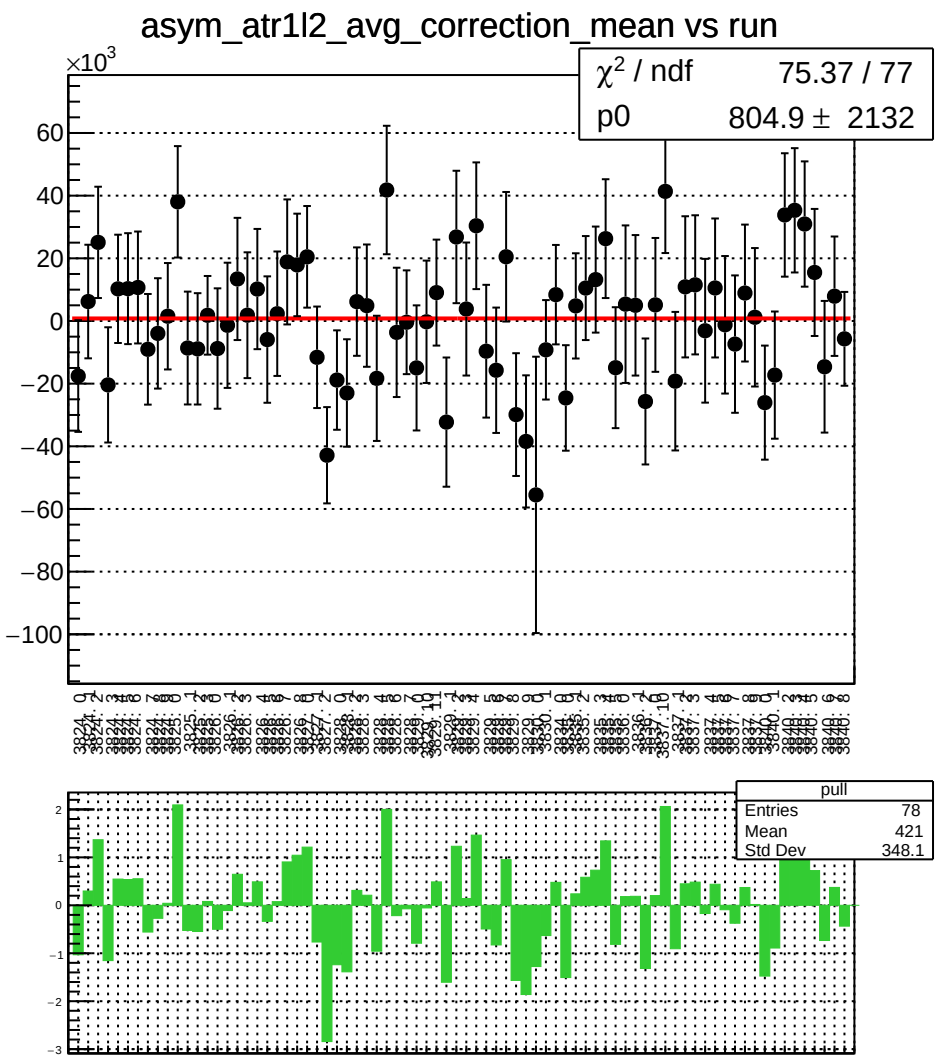

pull1D
Entries 78
Mean −0.009824
Std Dev 1.132

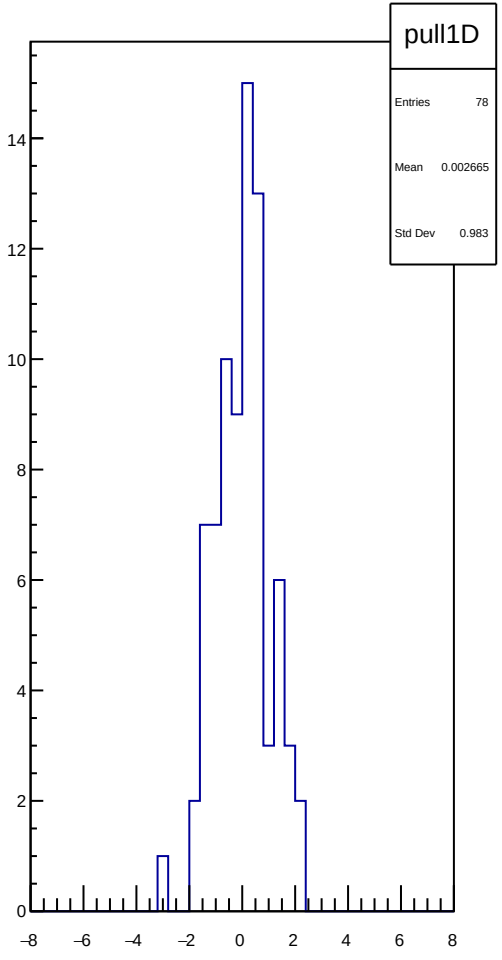

asym_atl1r2_dd_rms vs run
χ^2 / ndf 2.353e+04 / 77
p0 1425 ± 1.174
5000
4000
3000
2000
1000

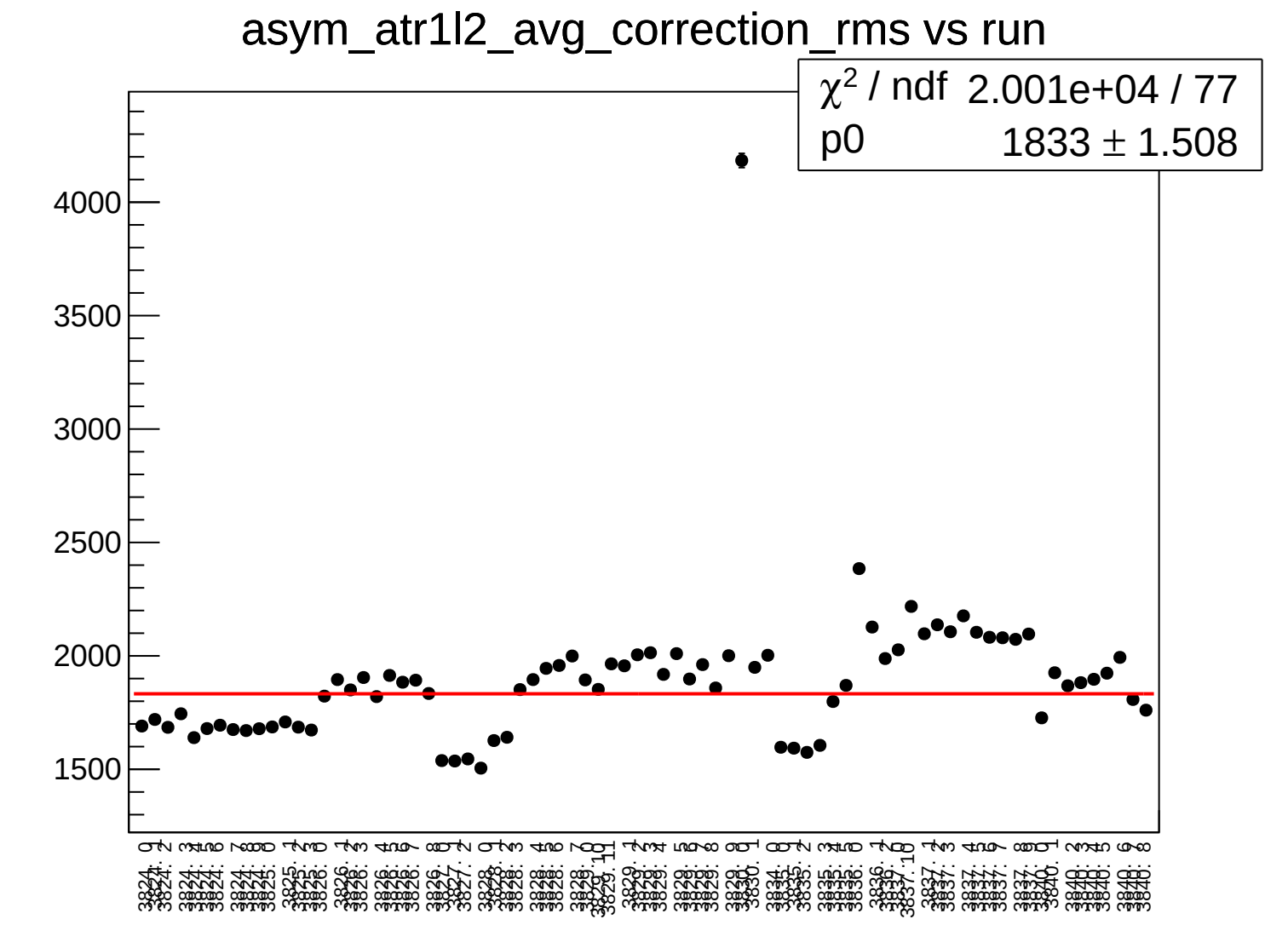

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 74.4 / 77
p0 −432.6 ± 374.3
pull
Entries 78
Mean 348.7
Std Dev 306.7

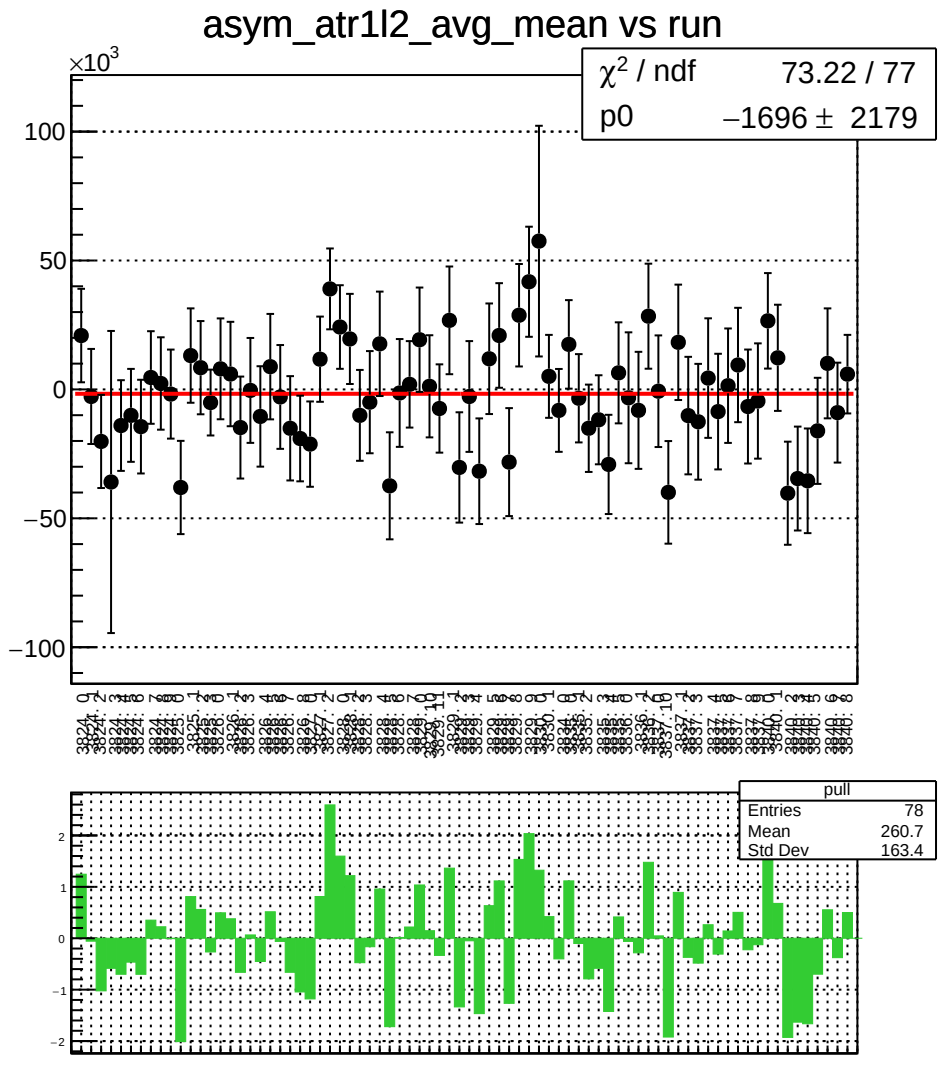

pull1D
Entries 78
Mean −0.00875
Std Dev 0.9766

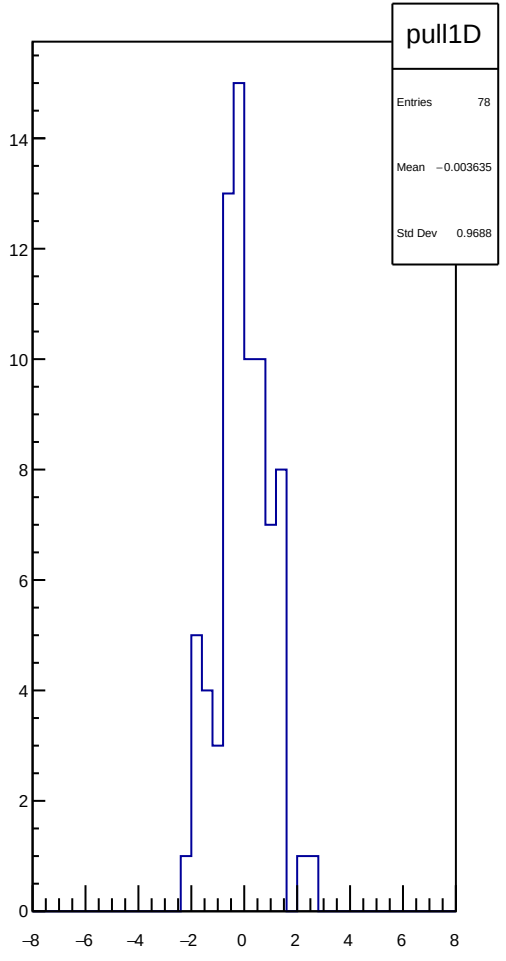

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 2.228e+04 / 77
p0 321.5 ± 0.2647
5000
4000
3000
2000
1000

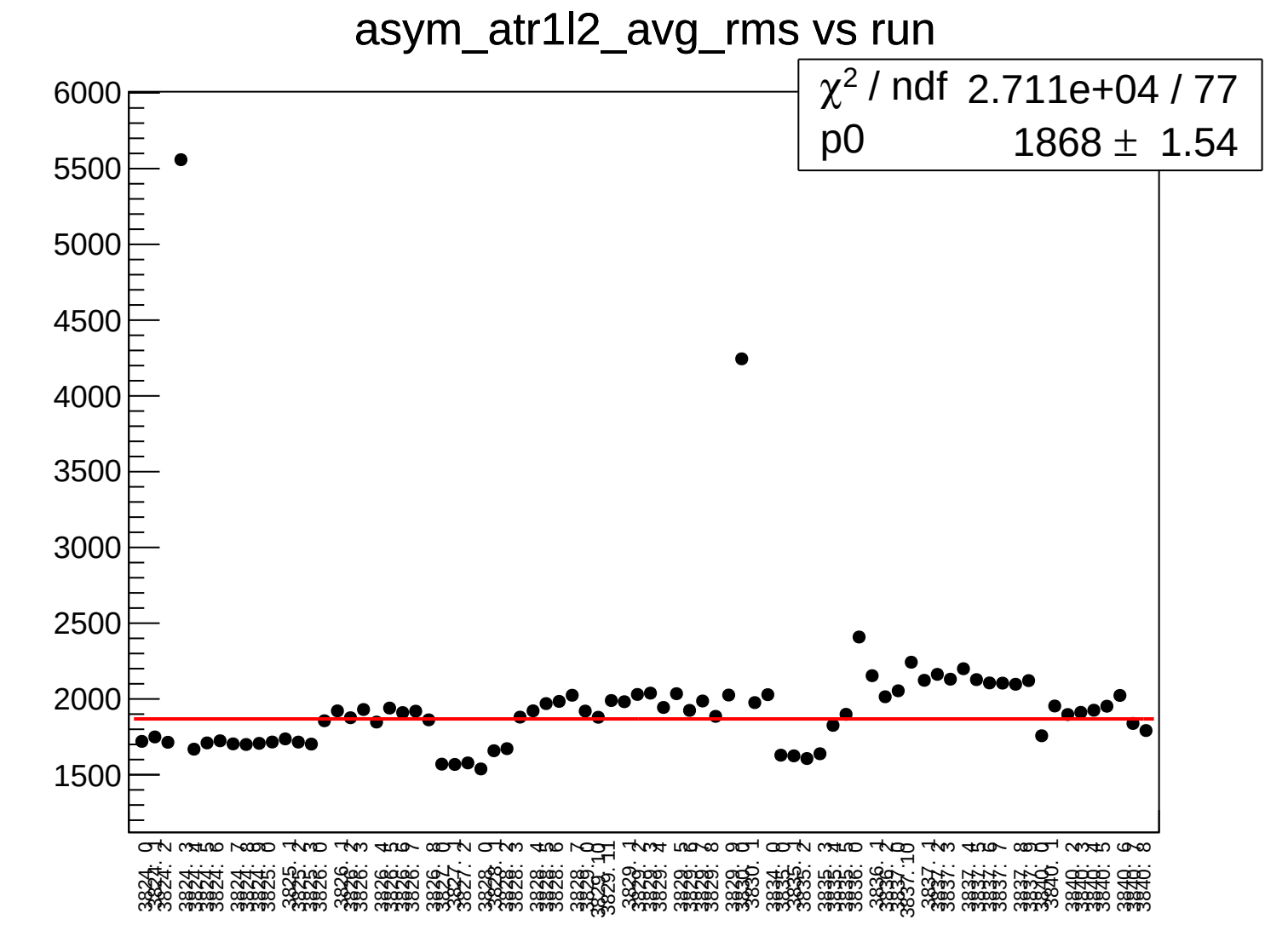

asym_atr1l2_avg_correction_mean vs run
χ² / ndf 75.37 / 77
p0 804.9 ± 2132
×10³
pull
Entries 78
Mean 421
Std Dev 348.1

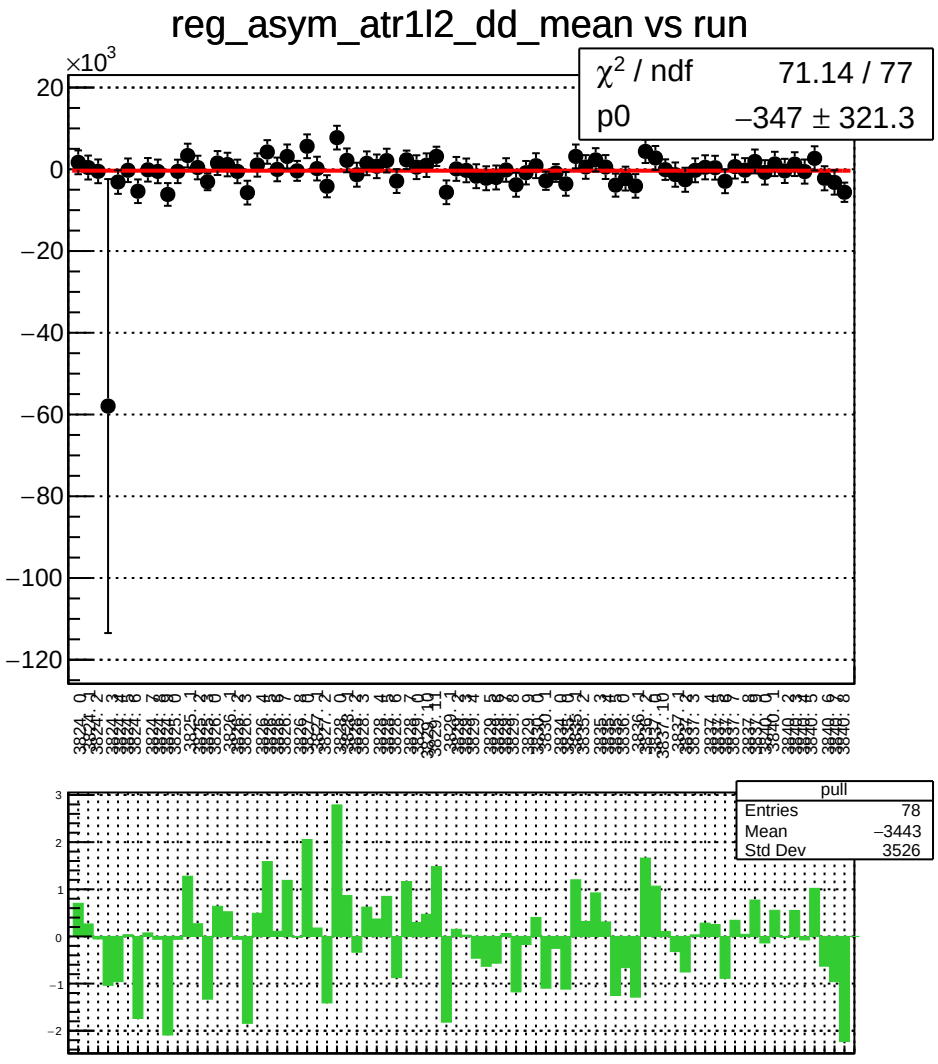

pull1D
Entries 78
Mean 0.002665
Std Dev 0.983

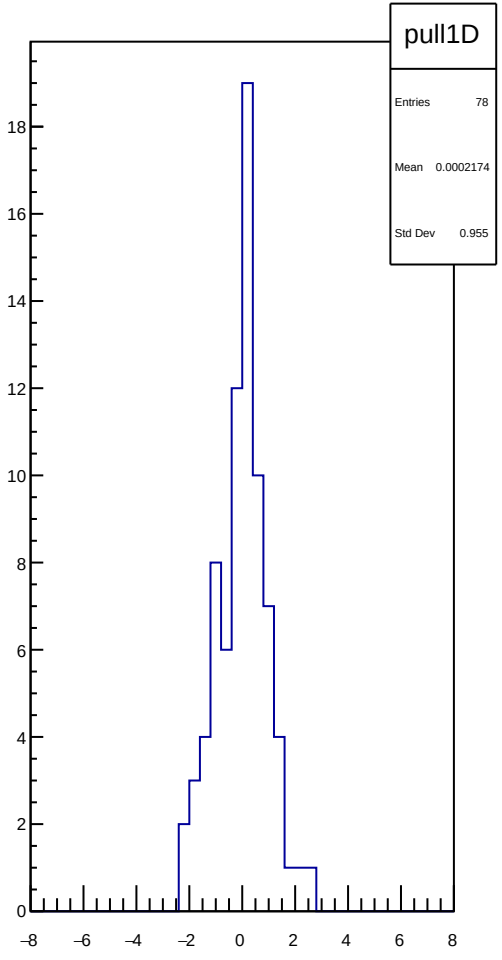

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 2.001e+04 / 77
p0 1833 ± 1.508
4000
3500
3000
2500
2000
1500

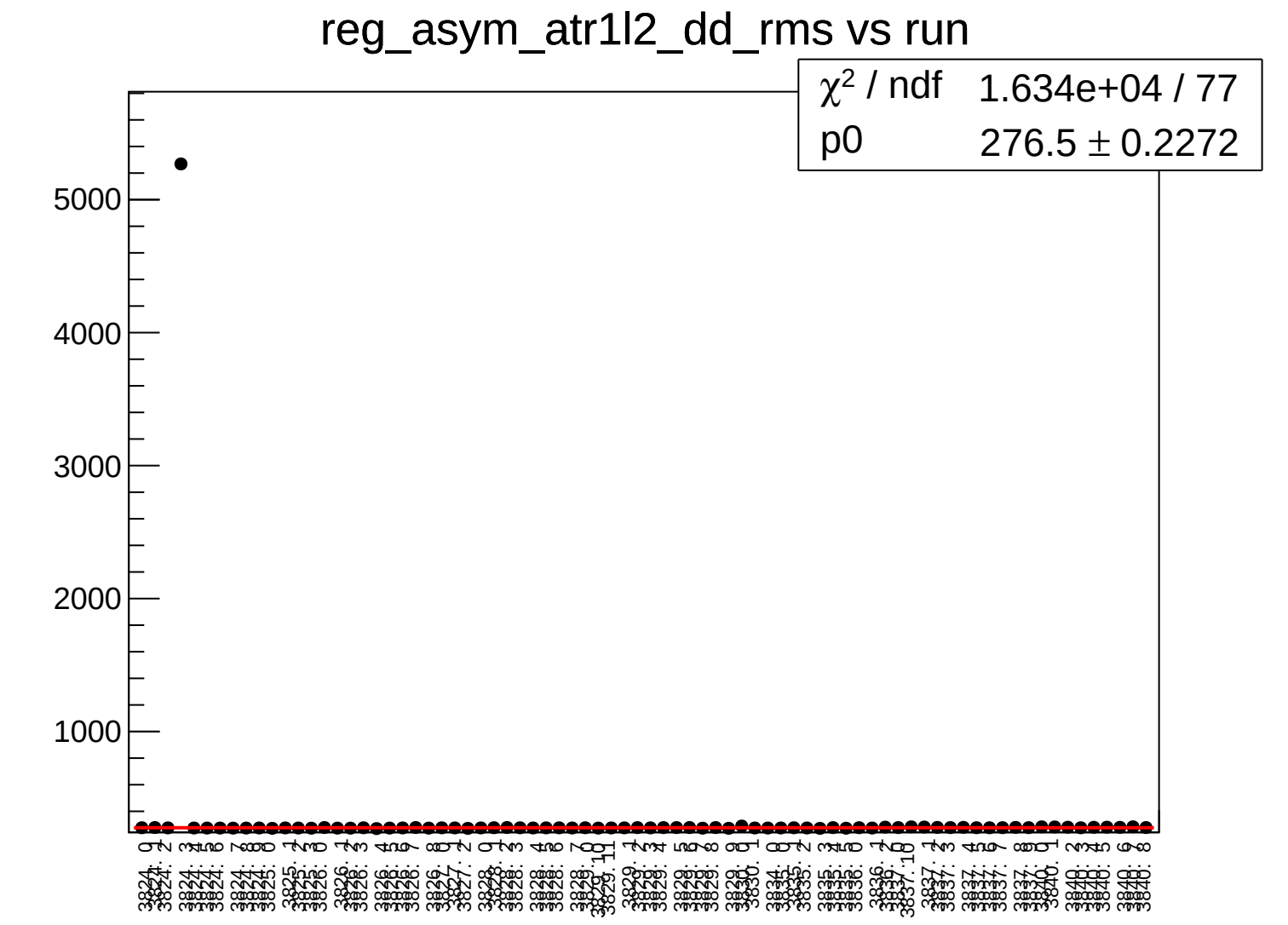

asym_atr1l2_avg_mean vs run
χ² / ndf 73.22 / 77
p0 −1696 ± 2179
×10³
100
50
0
−50
−100
pull
Entries 78
Mean 260.7
Std Dev 163.4
2
1
0
−1
−2

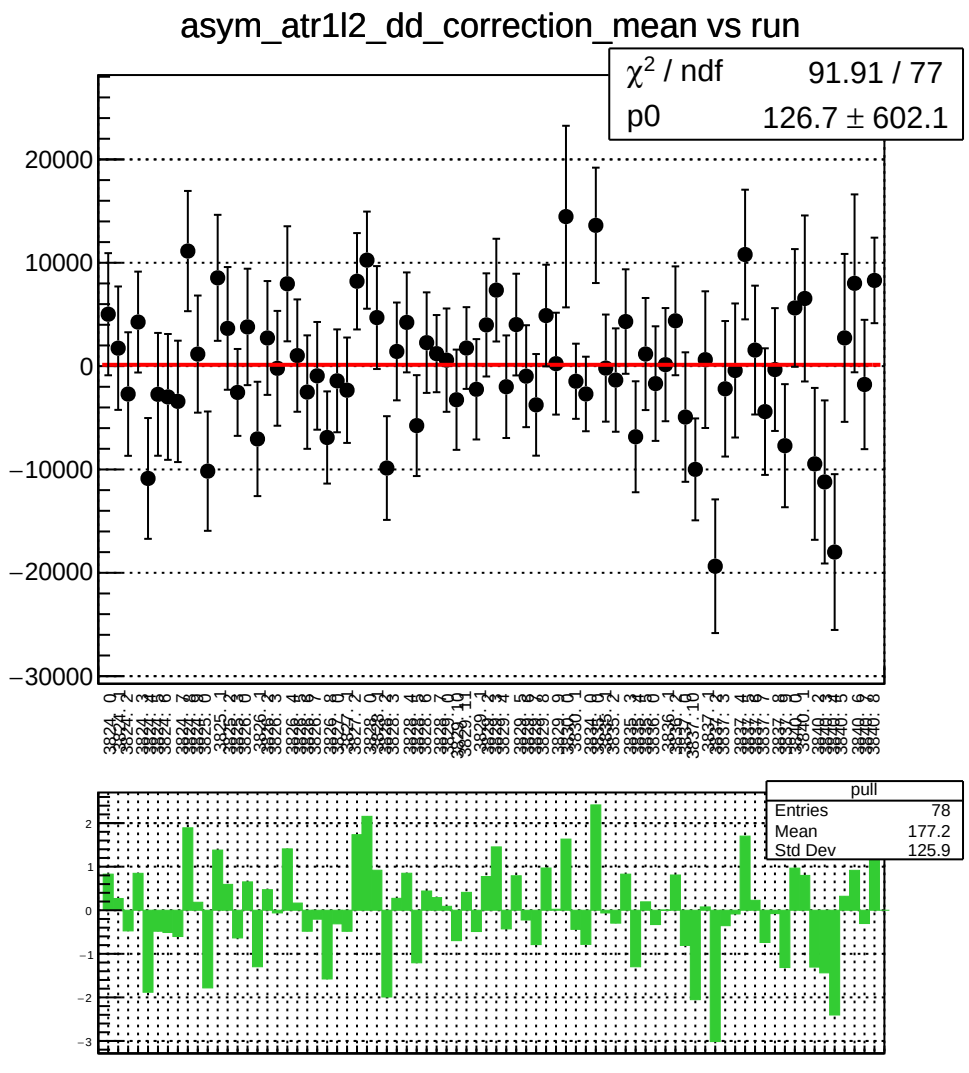

pull1D
Entries 78
Mean −0.003635
Std Dev 0.9688
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

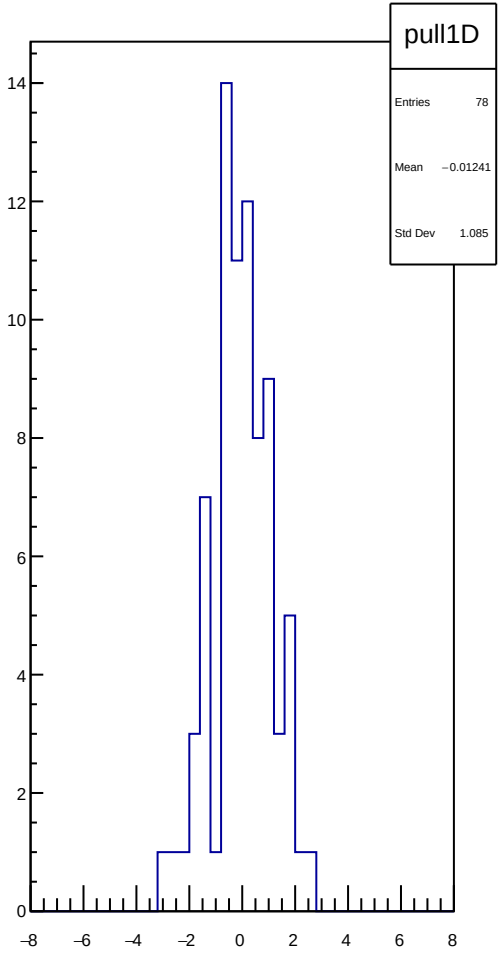

asym_atr1l2_avg_rms vs run
χ² / ndf 2.711e+04 / 77
p0 1868 ± 1.54
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

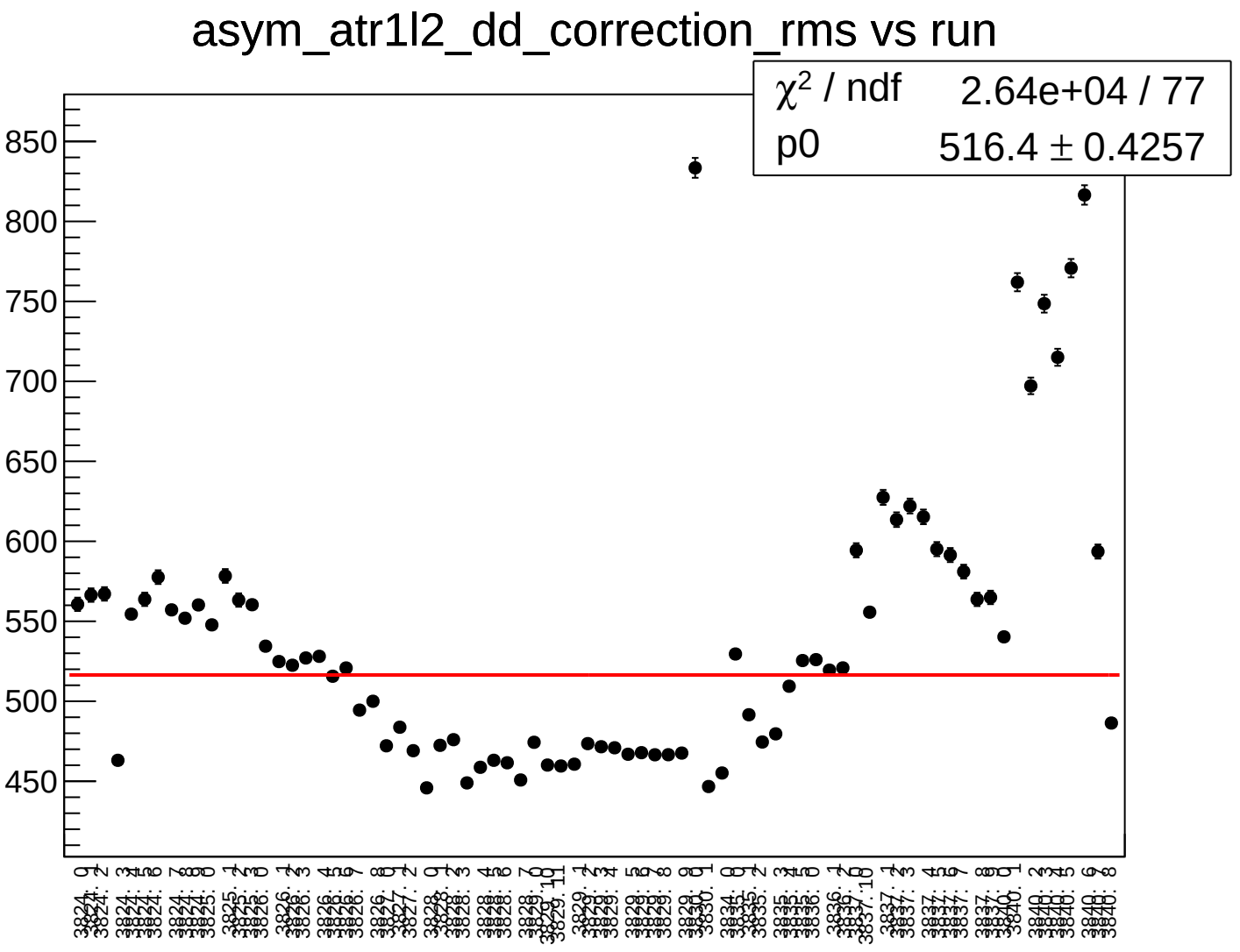

reg_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 71.14 / 77
p0 −347 ± 321.3
pull
Entries 78
Mean −3443
Std Dev 3526

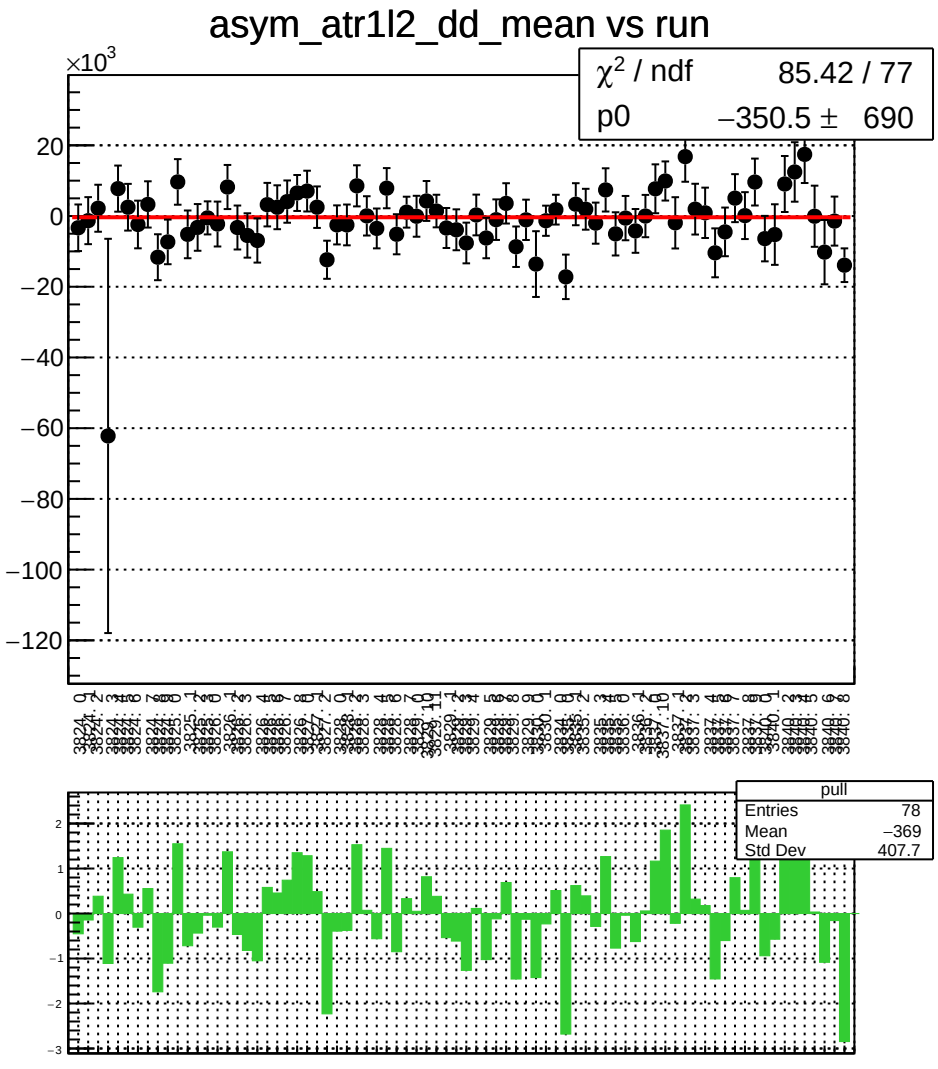

pull1D
Entries 78
Mean 0.0002174
Std Dev 0.955

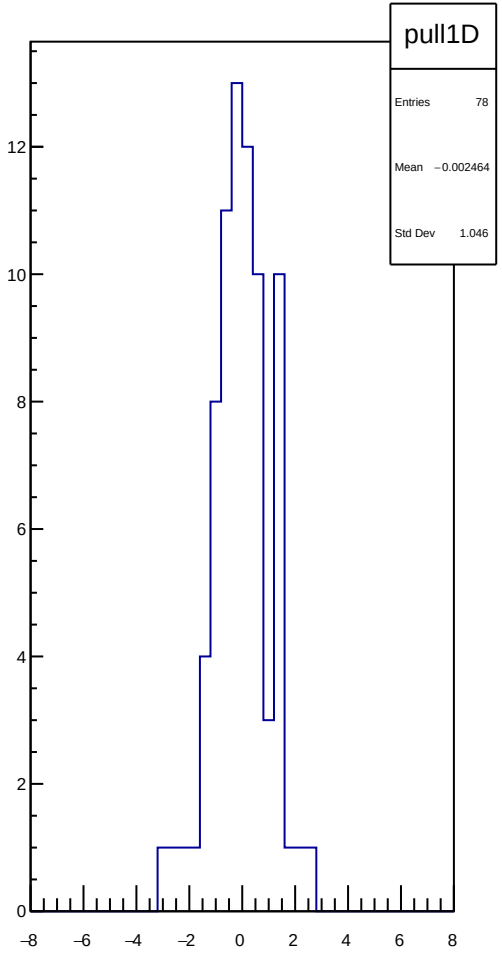

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 1.634e+04 / 77
p0 276.5 ± 0.2272
5000
4000
3000
2000
1000

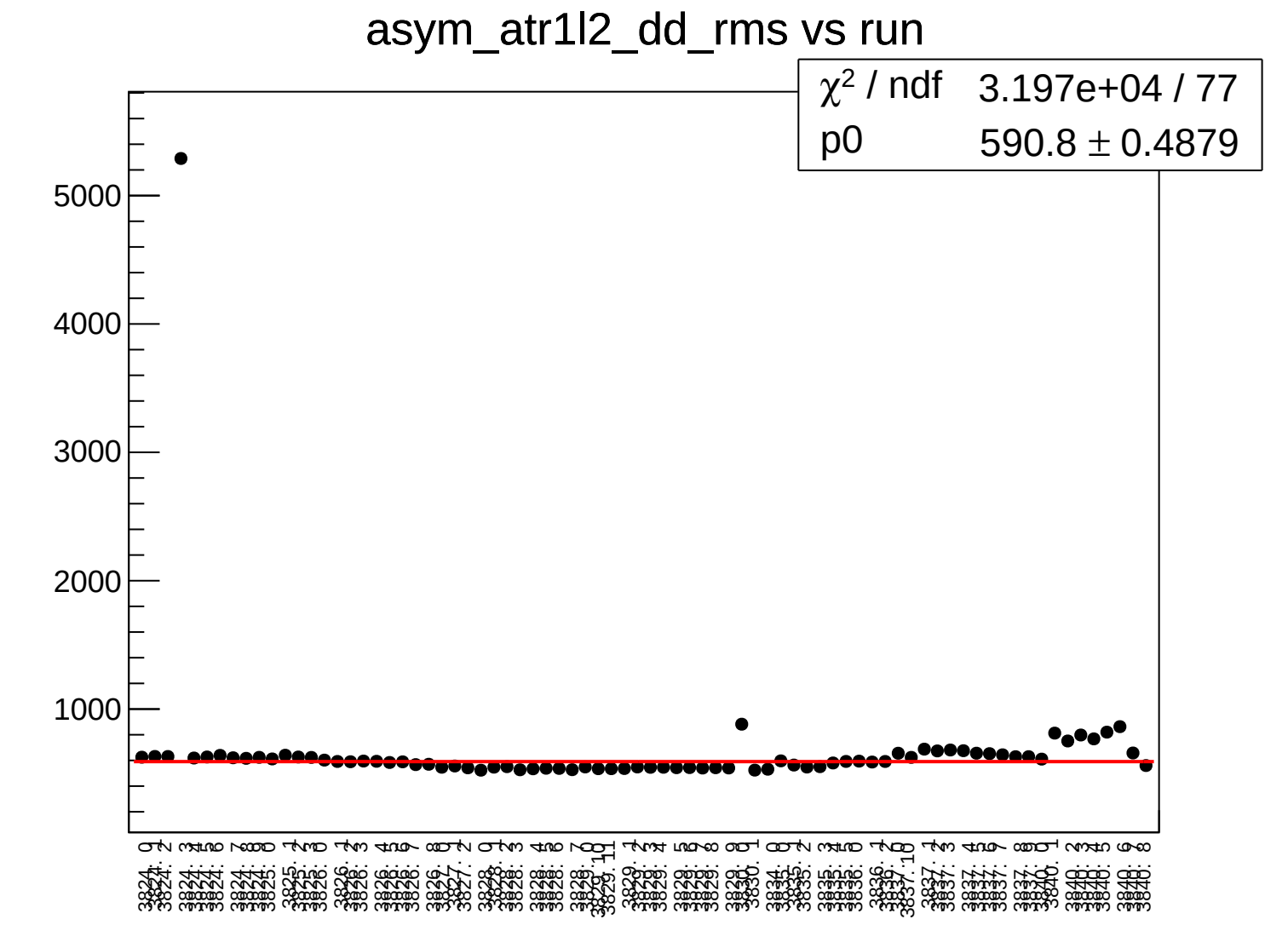

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 91.91 / 77
p0 126.7 ± 602.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 78
Mean 177.2
Std Dev 125.9
2
1
0
−1
−2
−3


pull1D
Entries 78
Mean −0.01241
Std Dev 1.085
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 2.64e+04 / 77
p0 516.4 ± 0.4257
850
800
750
700
650
600
550
500
450


asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 85.42 / 77
p0 −350.5 ± 690
pull
Entries 78
Mean −369
Std Dev 407.7


pull1D
Entries 78
Mean −0.002464
Std Dev 1.046


asym_atr1l2_dd_rms vs run
χ² / ndf 3.197e+04 / 77
p0 590.8 ± 0.4879
5000
4000
3000
2000
1000