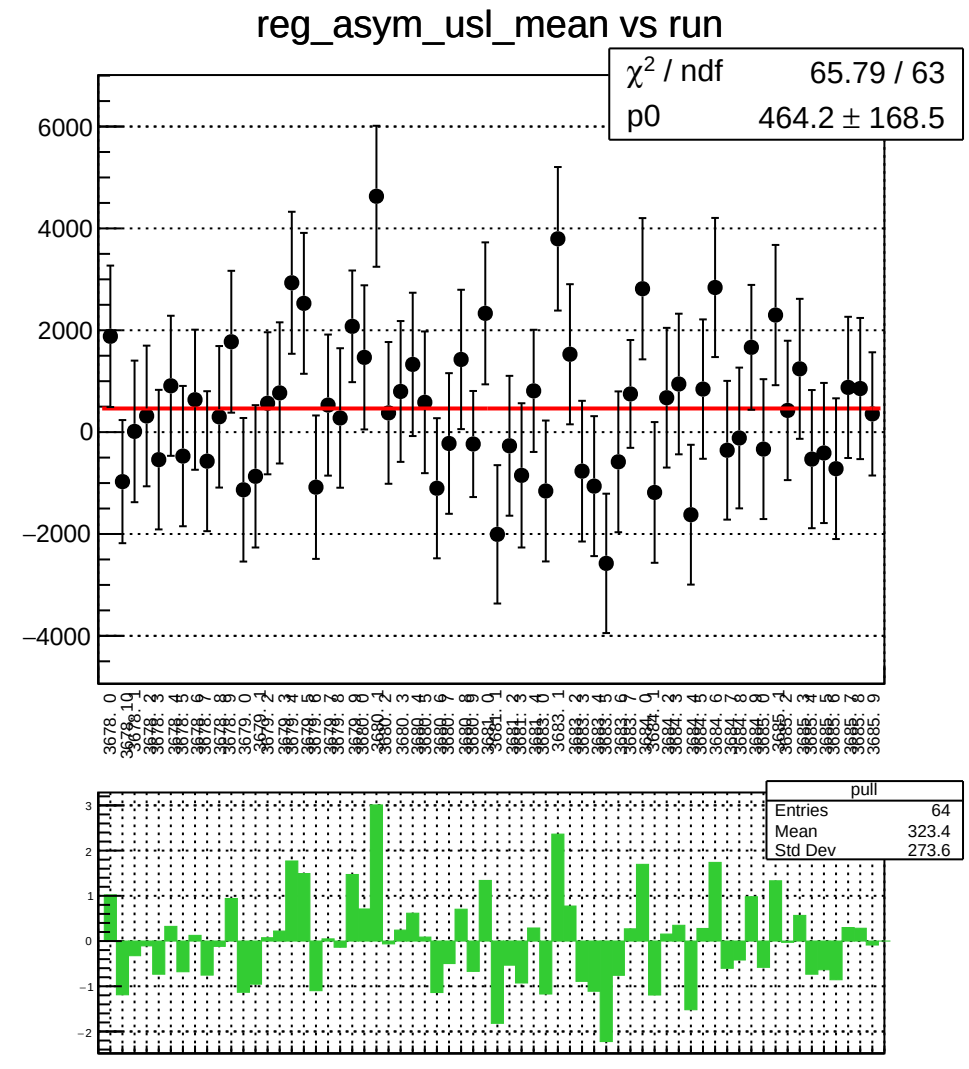
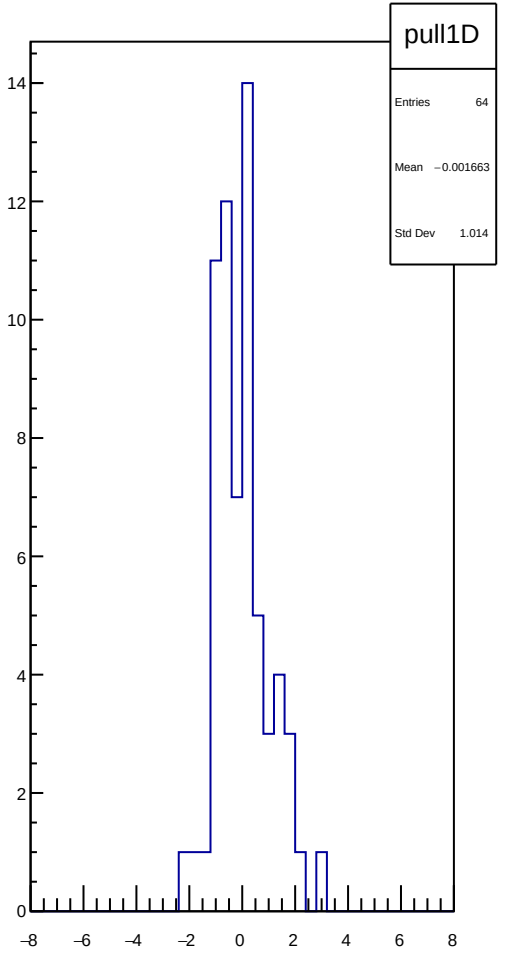
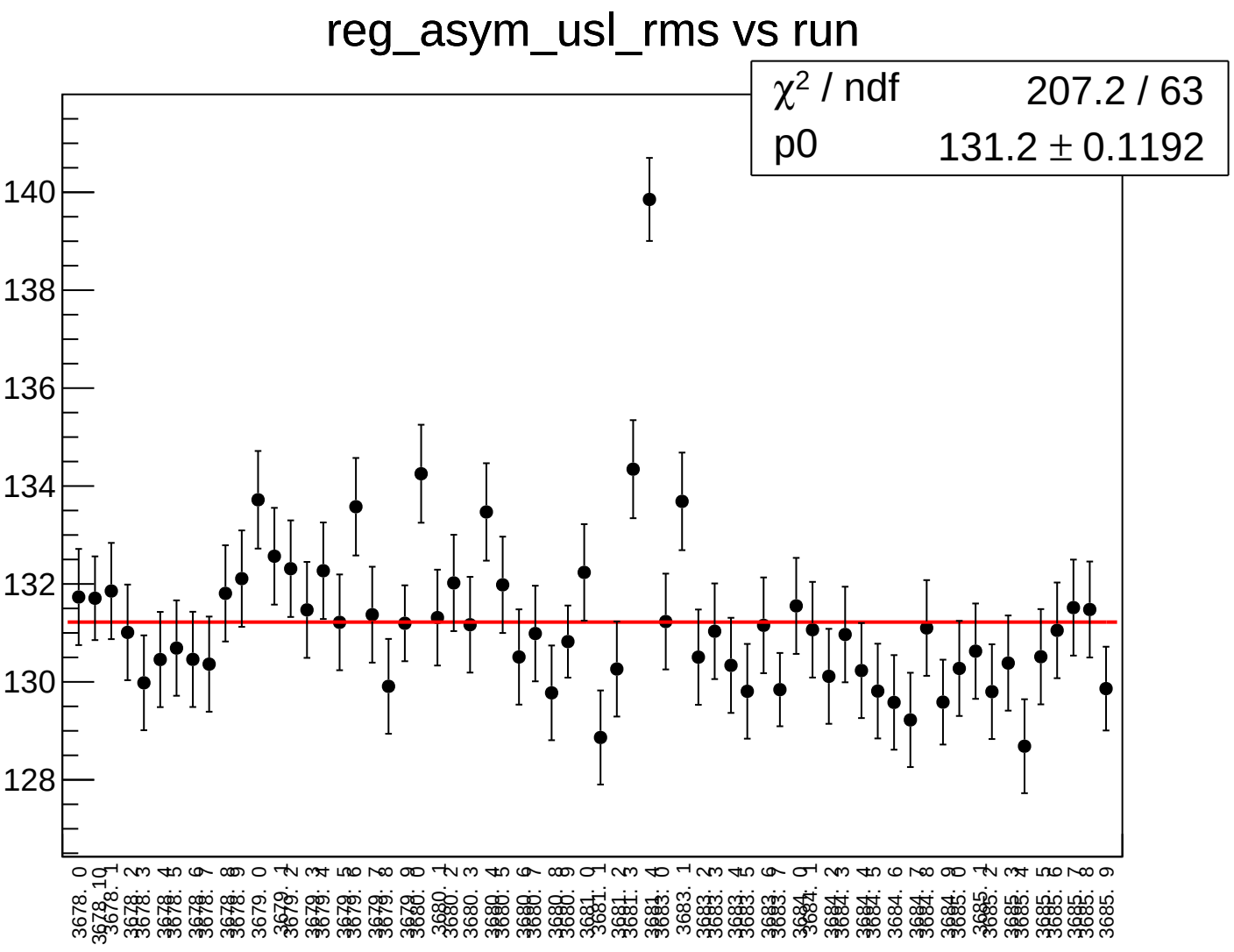
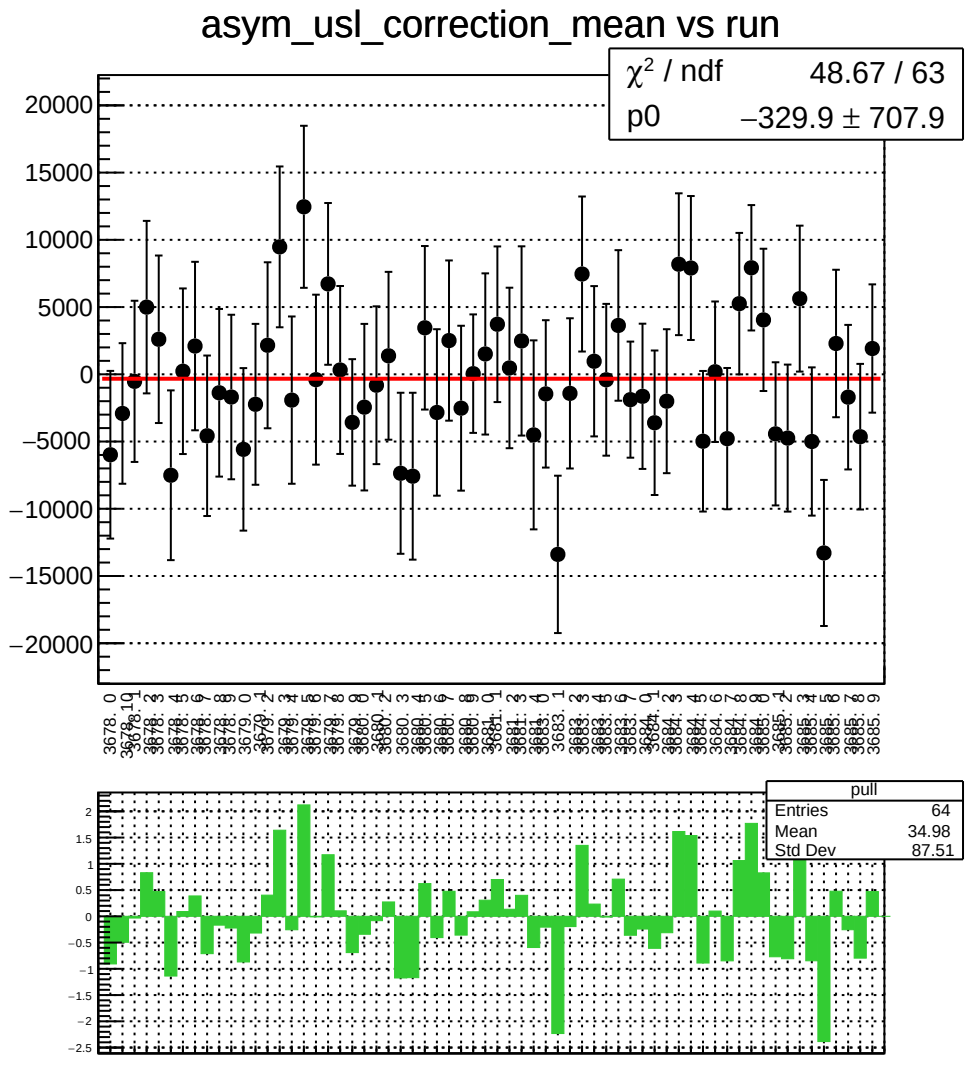
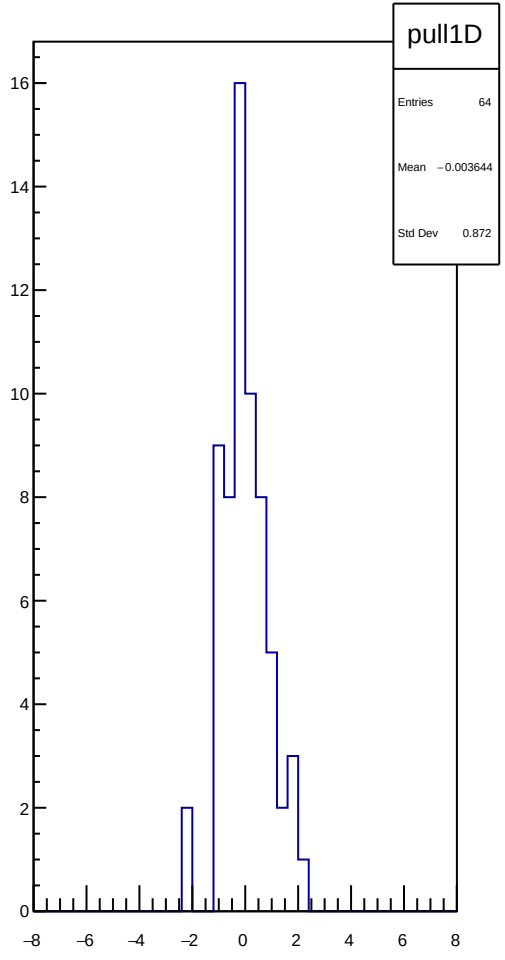
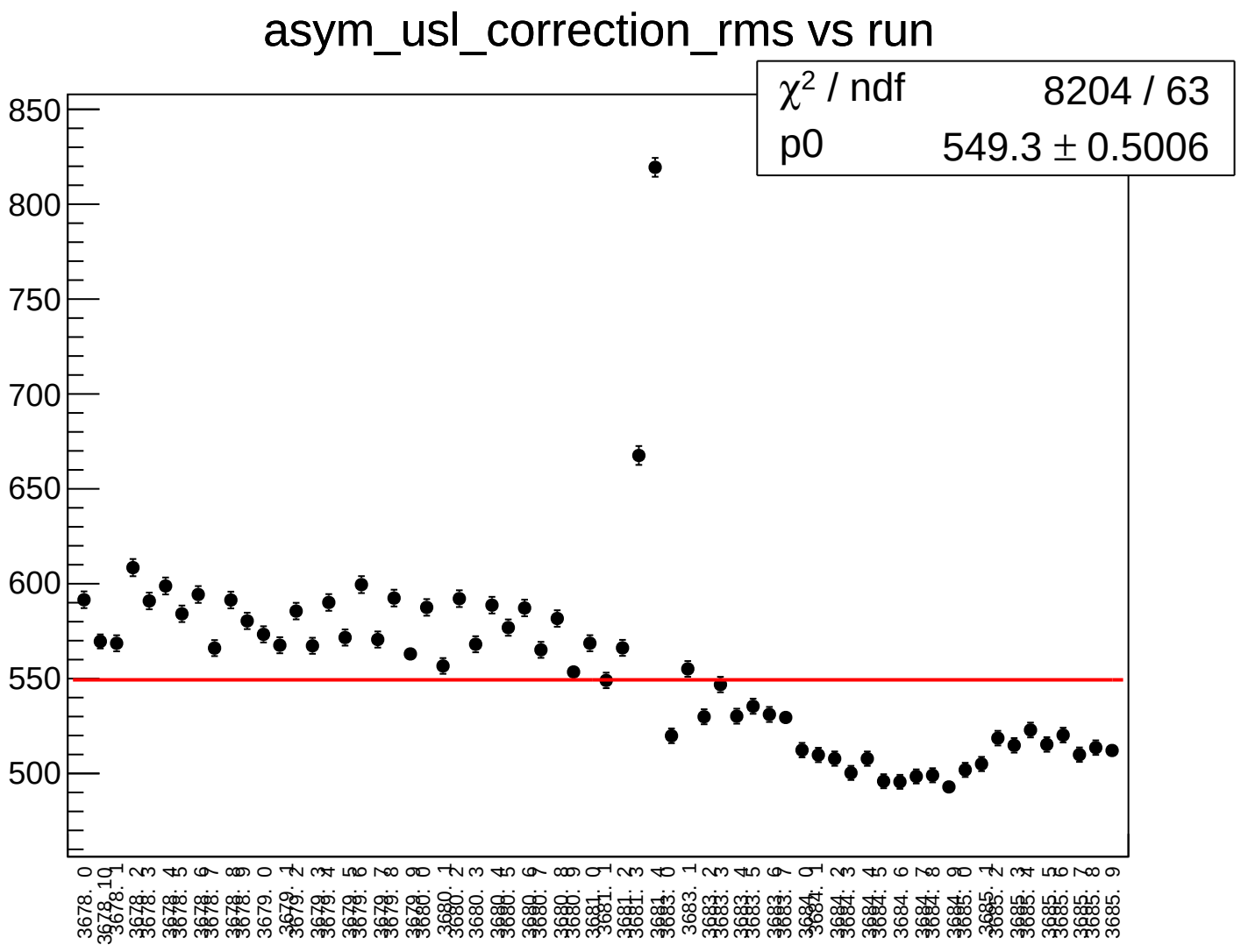

reg_asym_usl_mean vs run
χ² / ndf 65.79 / 63
p0 464.2 ± 168.5
6000
4000
2000
0
−2000
−4000
pull
Entries 64
Mean 323.4
Std Dev 273.6
3
2
1
0
−1
−2

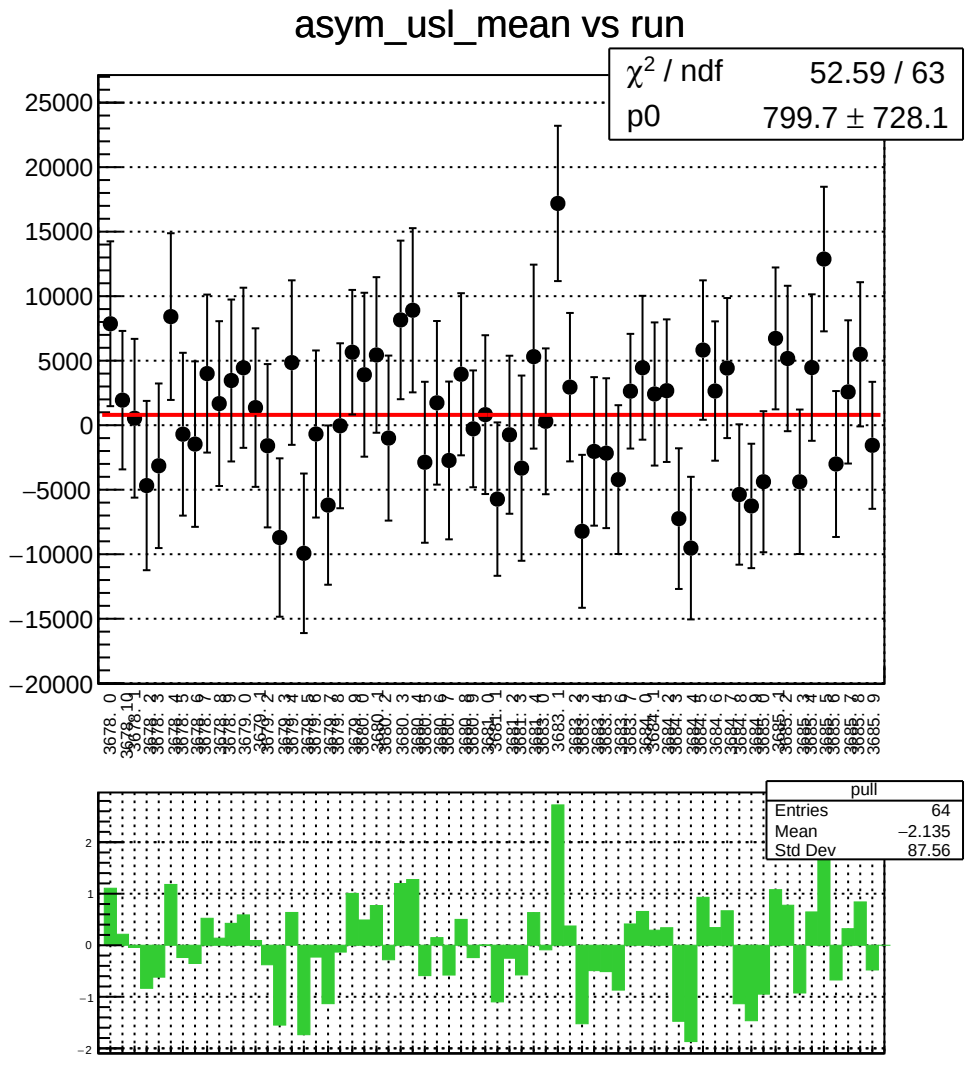

pull1D
Entries 64
Mean −0.001663
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

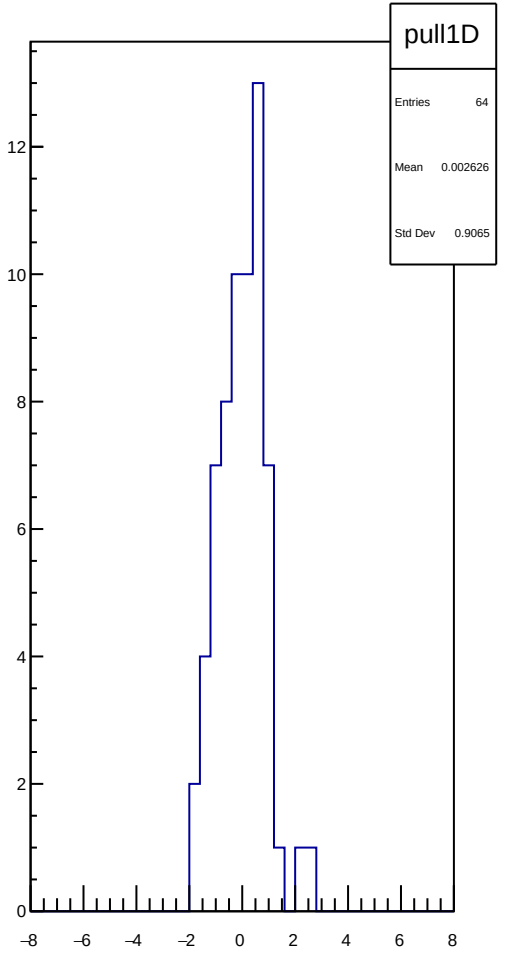

reg_asym_usl_rms vs run
χ² / ndf 207.2 / 63
p0 131.2 ± 0.1192
140
138
136
134
132
130
128

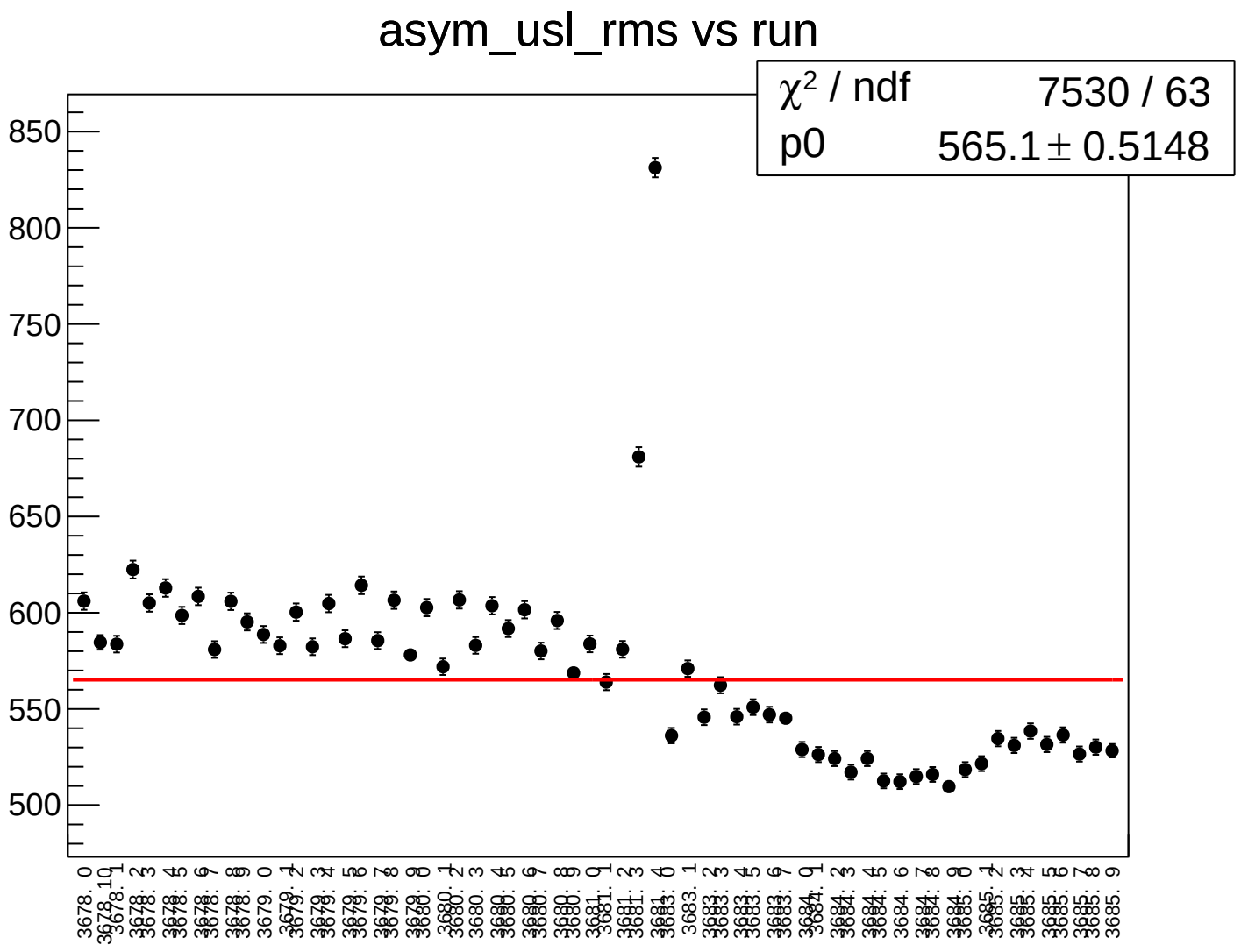

asym_usl_correction_mean vs run
χ² / ndf 48.67 / 63
p0 −329.9 ± 707.9
pull
Entries 64
Mean 34.98
Std Dev 87.51

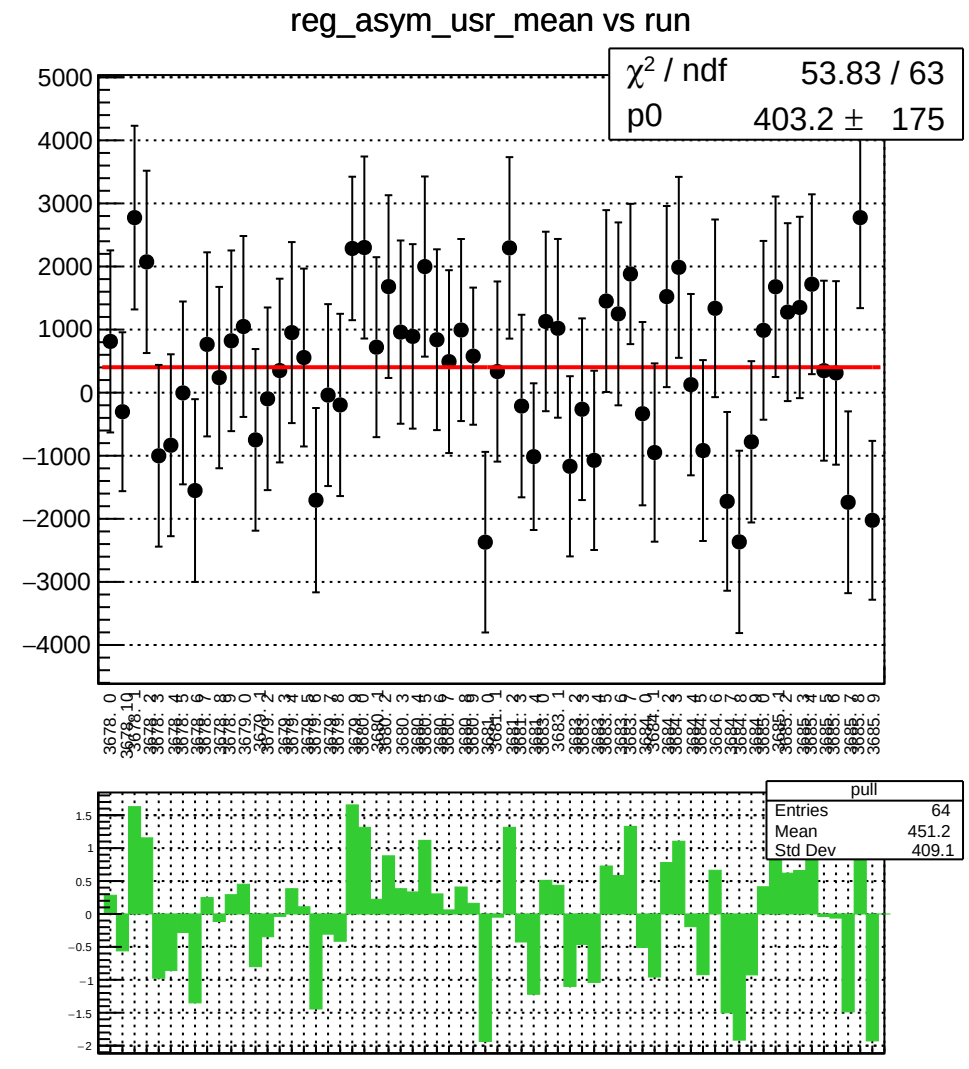

pull1D
Entries 64
Mean −0.003644
Std Dev 0.872

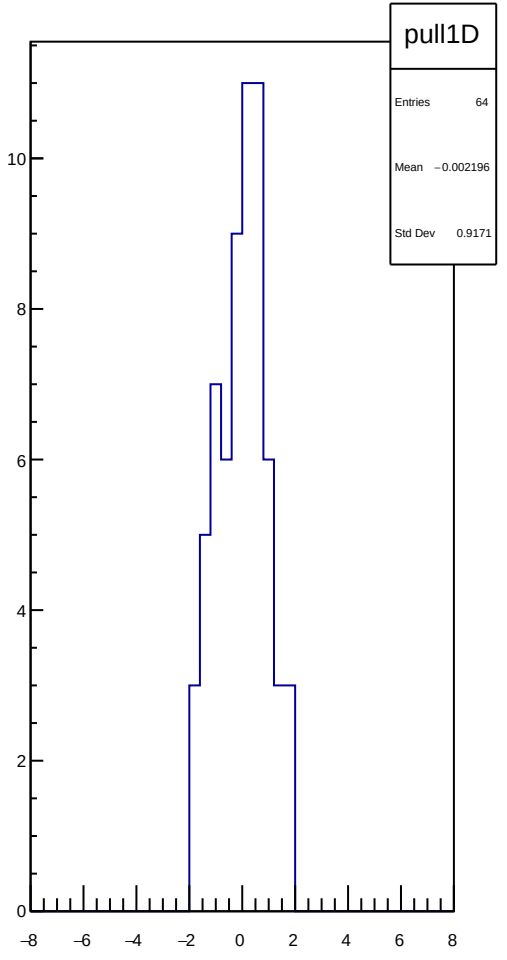

asym_usl_correction_rms vs run
χ² / ndf 8204 / 63
p0 549.3 ± 0.5006
850
800
750
700
650
600
550
500

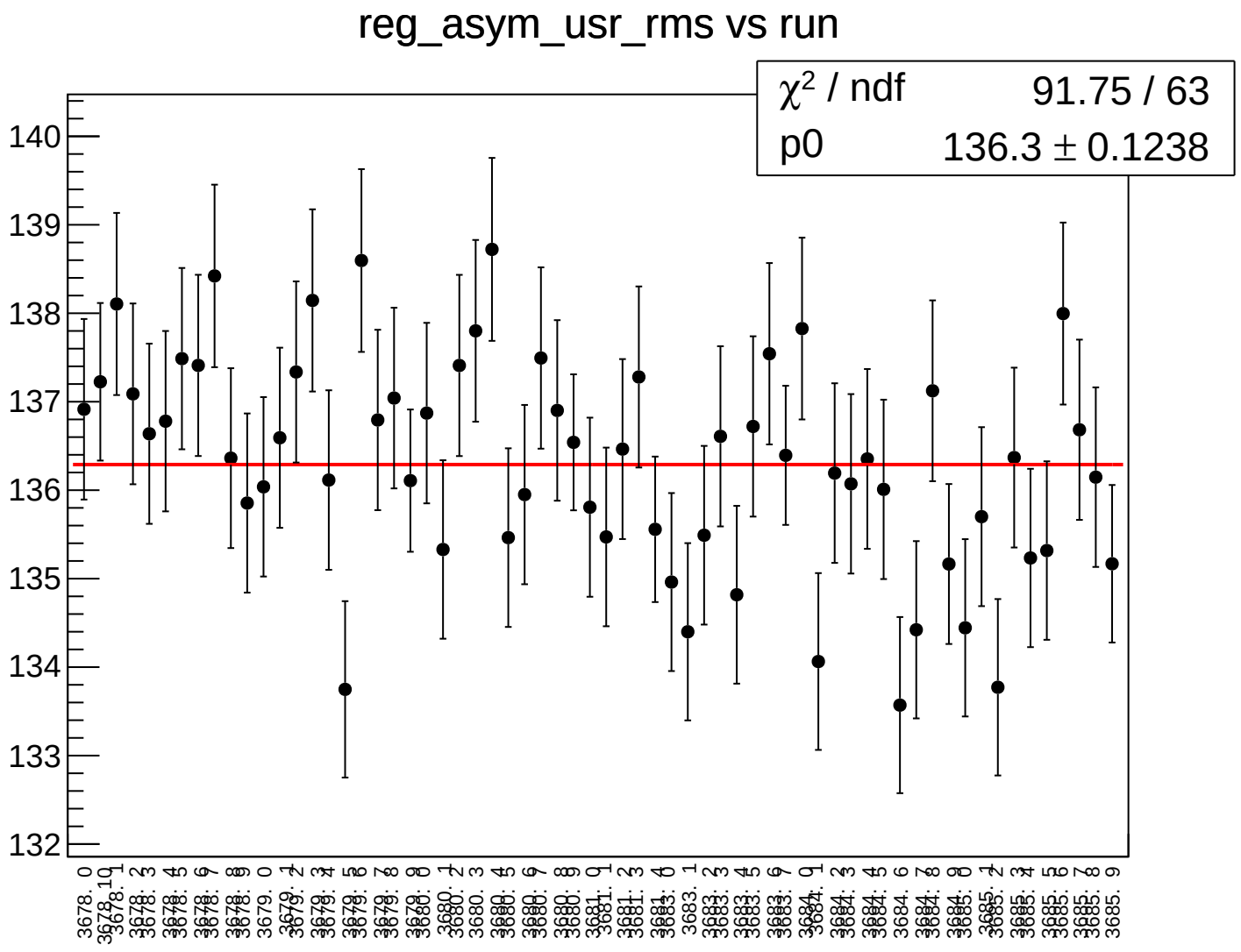

asym_usl_mean vs run
χ² / ndf 52.59 / 63
p0 799.7 ± 728.1
pull
Entries 64
Mean −2.135
Std Dev 87.56

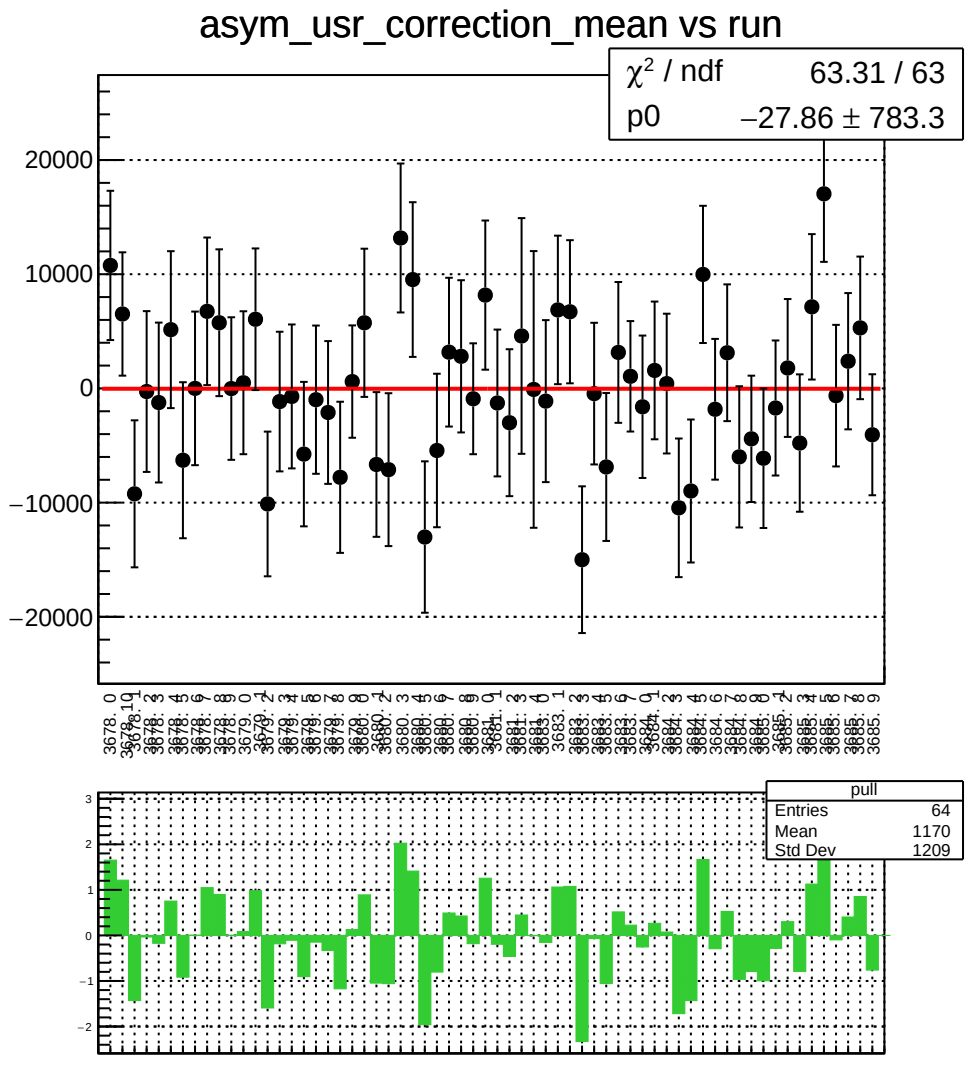

pull1D
Entries 64
Mean 0.002626
Std Dev 0.9065

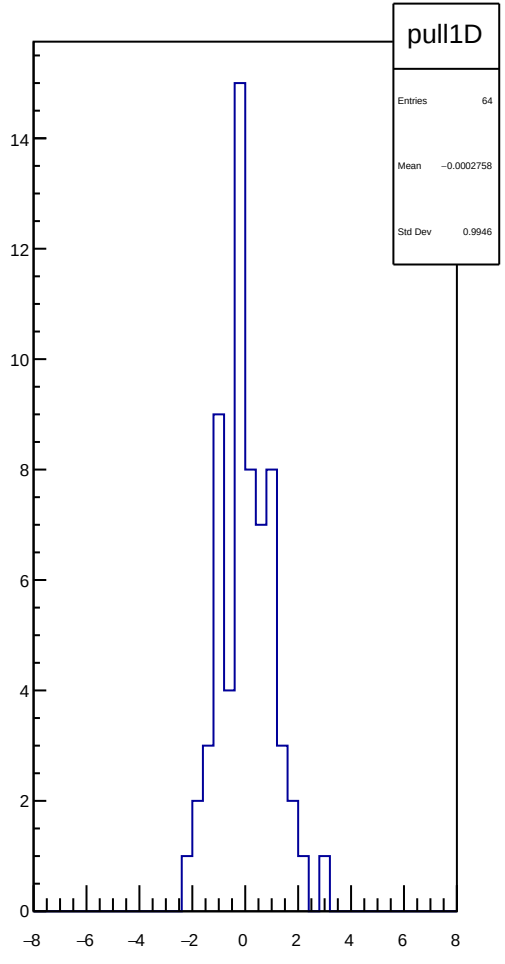

asym_usl_rms vs run
χ² / ndf 7530 / 63
p0 565.1 ± 0.5148
850
800
750
700
650
600
550
500

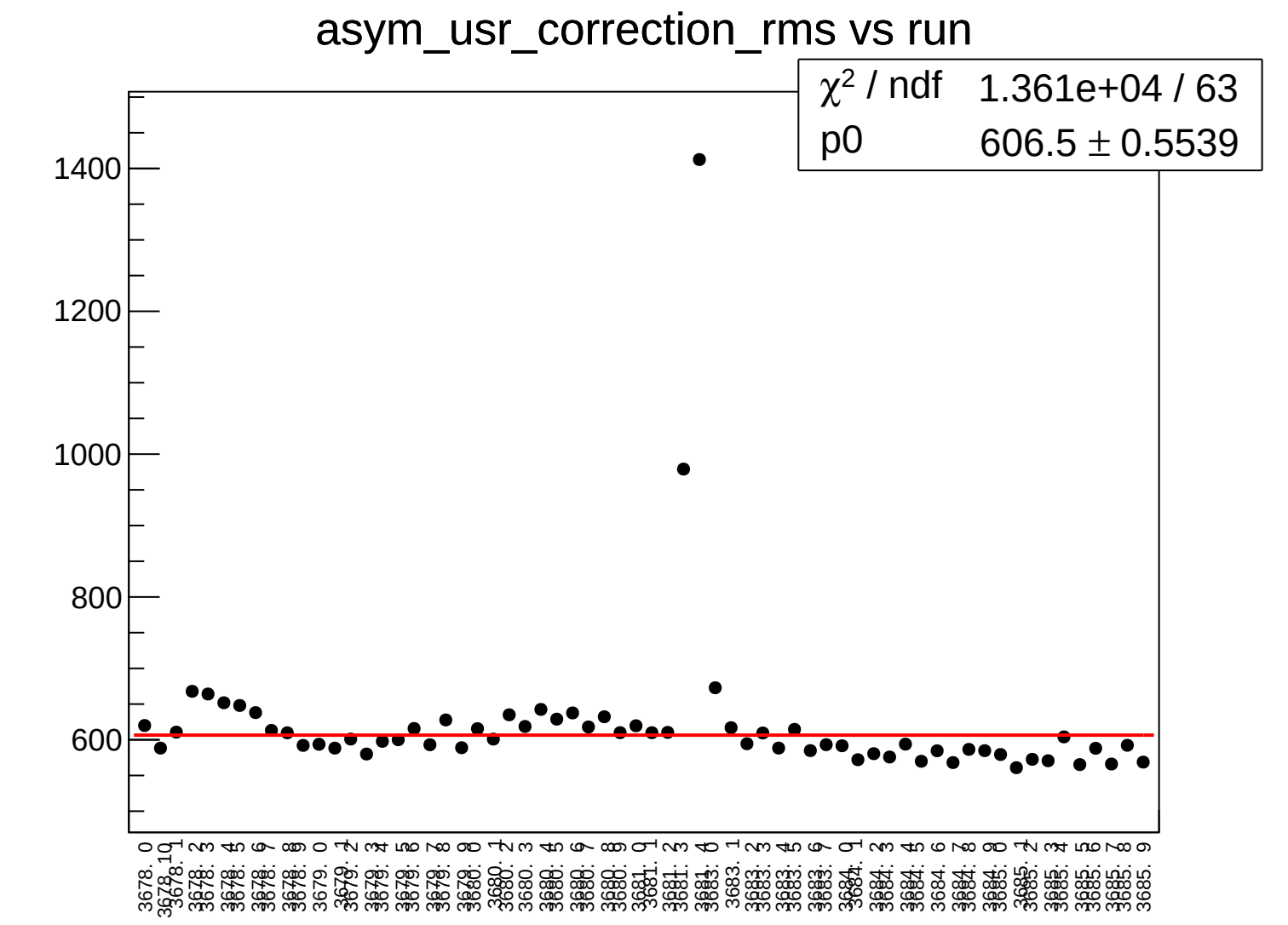

reg_asym_usr_mean vs run
χ² / ndf 53.83 / 63
p0 403.2 ± 175
pull
Entries 64
Mean 451.2
Std Dev 409.1

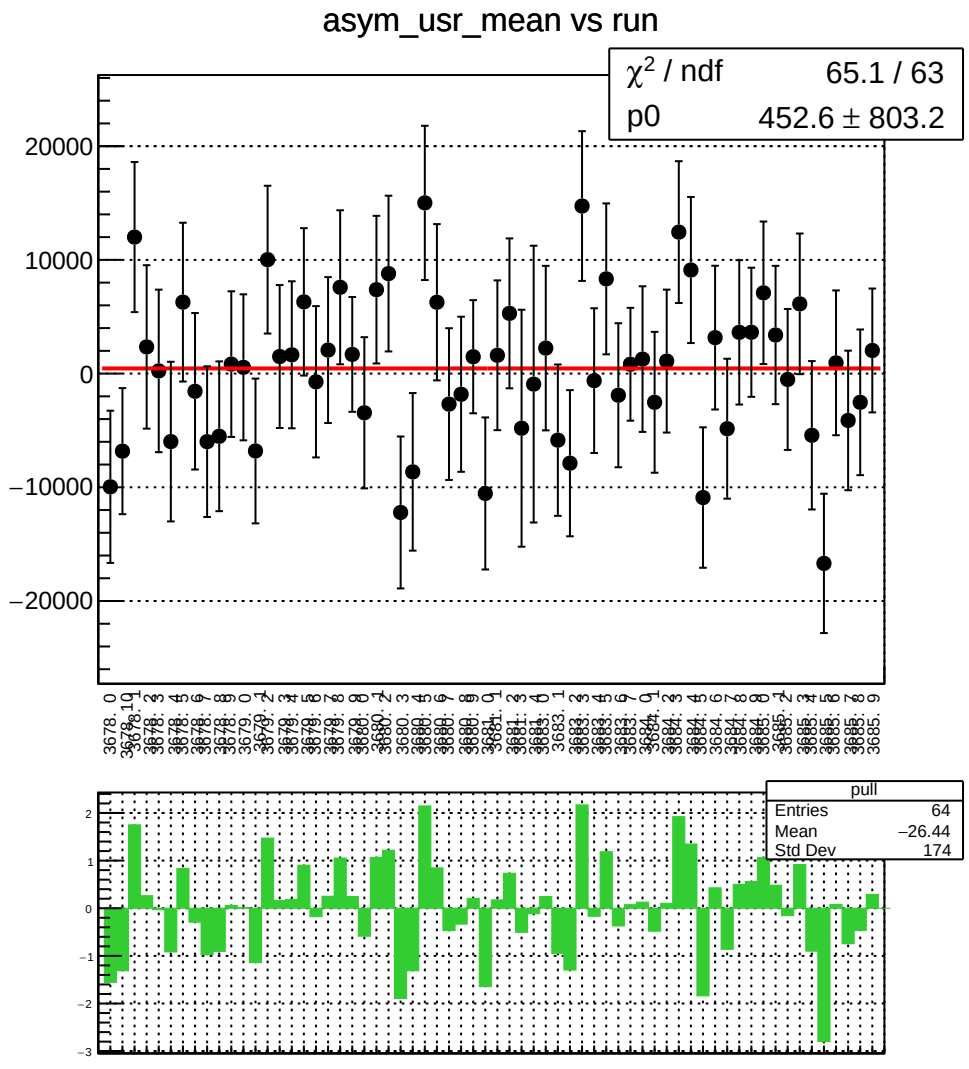

pull1D
Entries 64
Mean −0.002196
Std Dev 0.9171

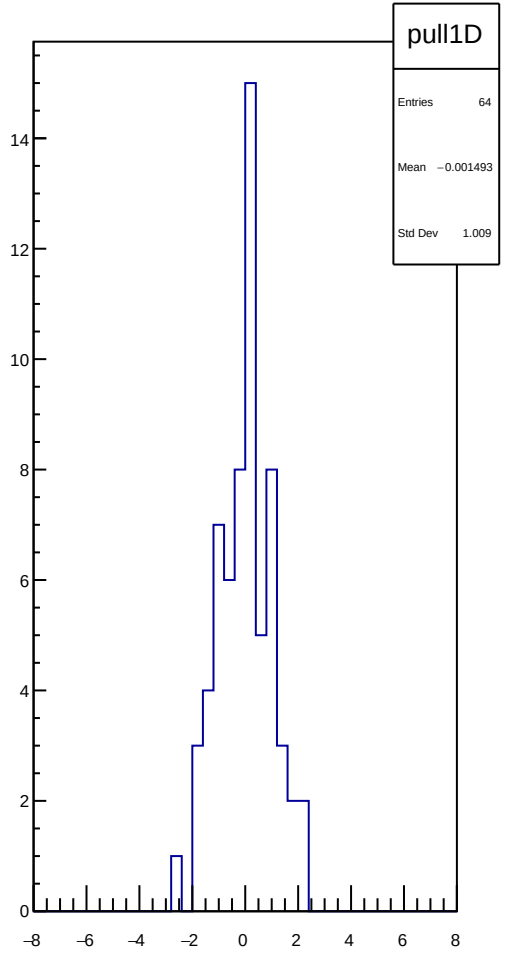

reg_asym_usr_rms vs run
$\chi^2$ / ndf 91.75 / 63
p0 136.3 ± 0.1238
140
139
138
137
136
135
134
133
132

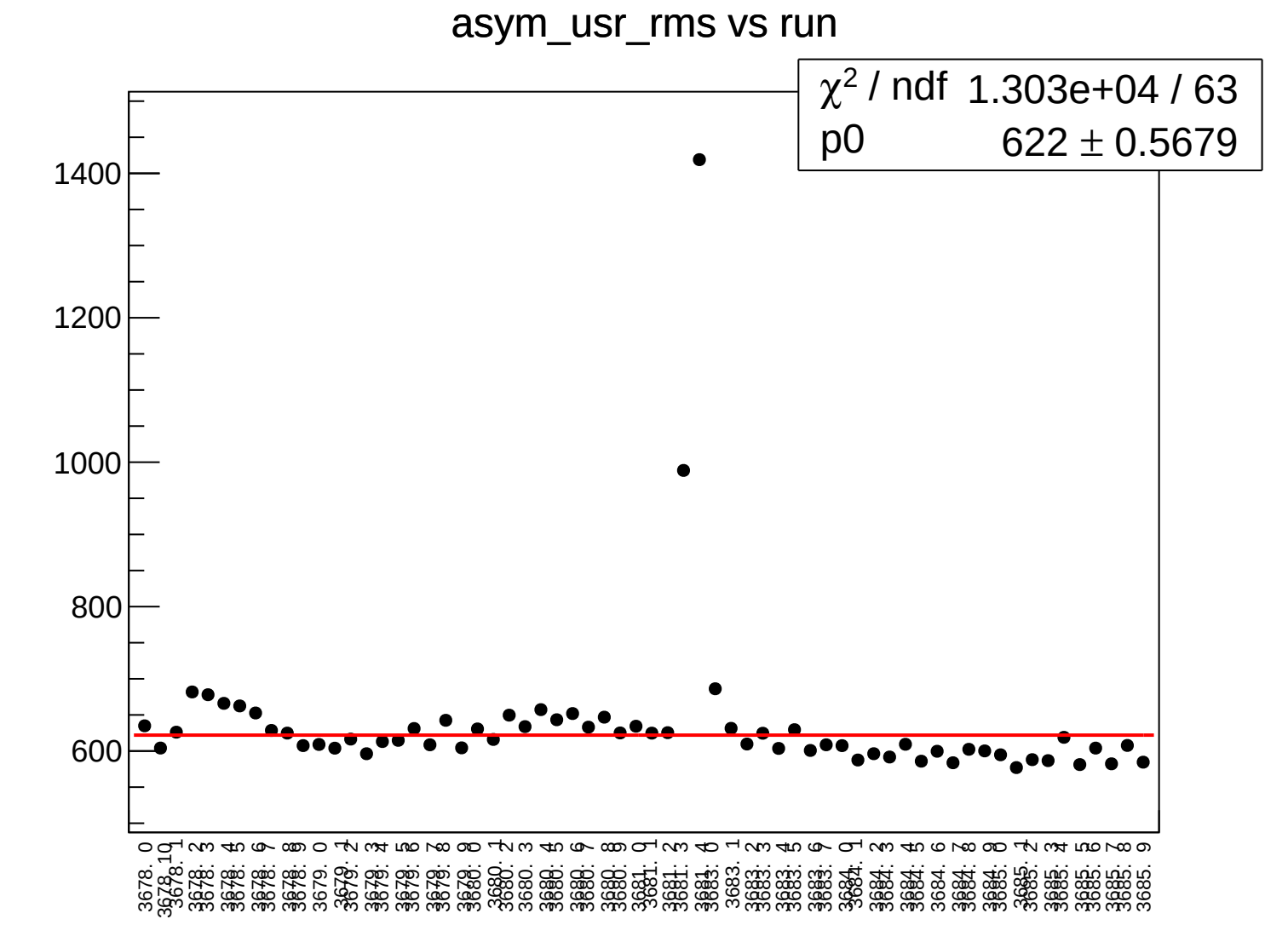

asym_usr_correction_mean vs run
χ² / ndf 63.31 / 63
p0 −27.86 ± 783.3
20000
10000
0
−10000
−20000
pull
Entries 64
Mean 1170
Std Dev 1209
3
2
1
0
−1
−2

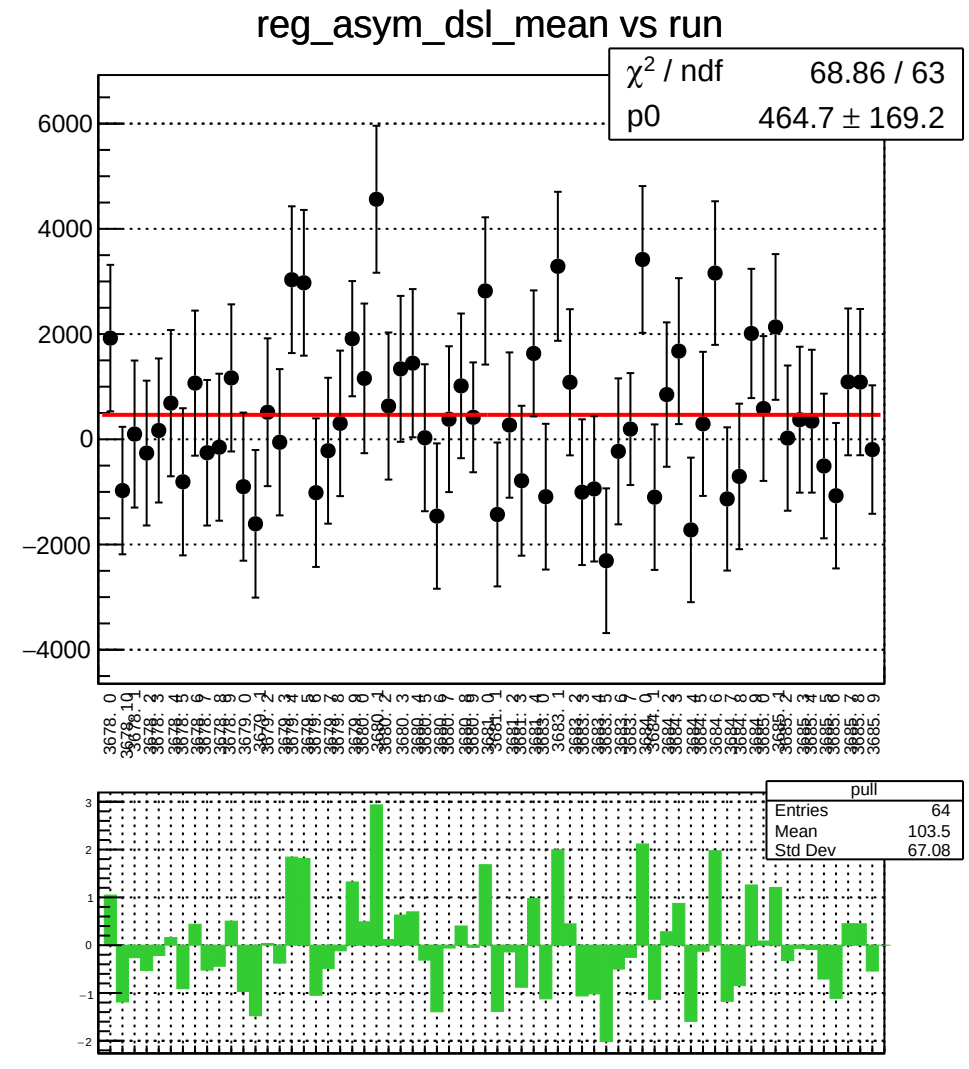

pull1D
Entries 64
Mean −0.0002758
Std Dev 0.9946
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

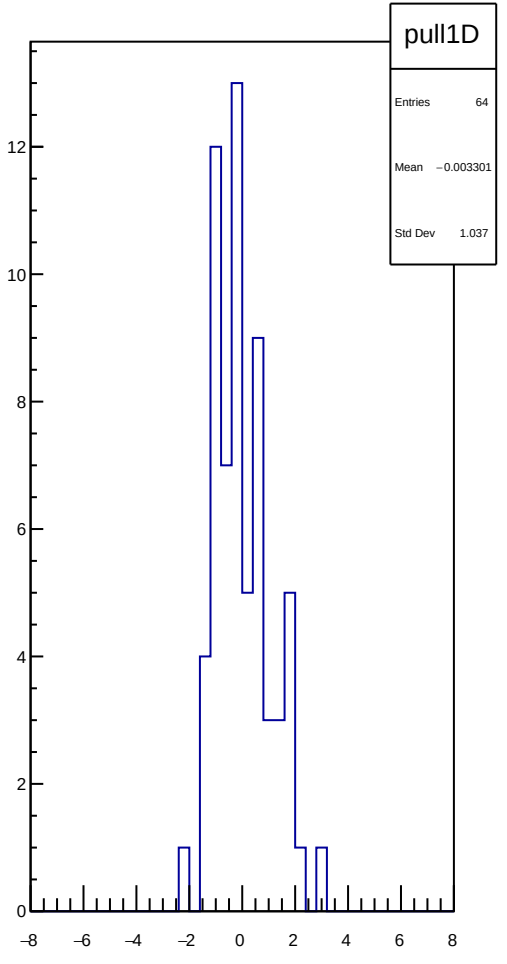

asym_usr_correction_rms vs run
χ² / ndf 1.361e+04 / 63
p0 606.5 ± 0.5539
1400
1200
1000
800
600

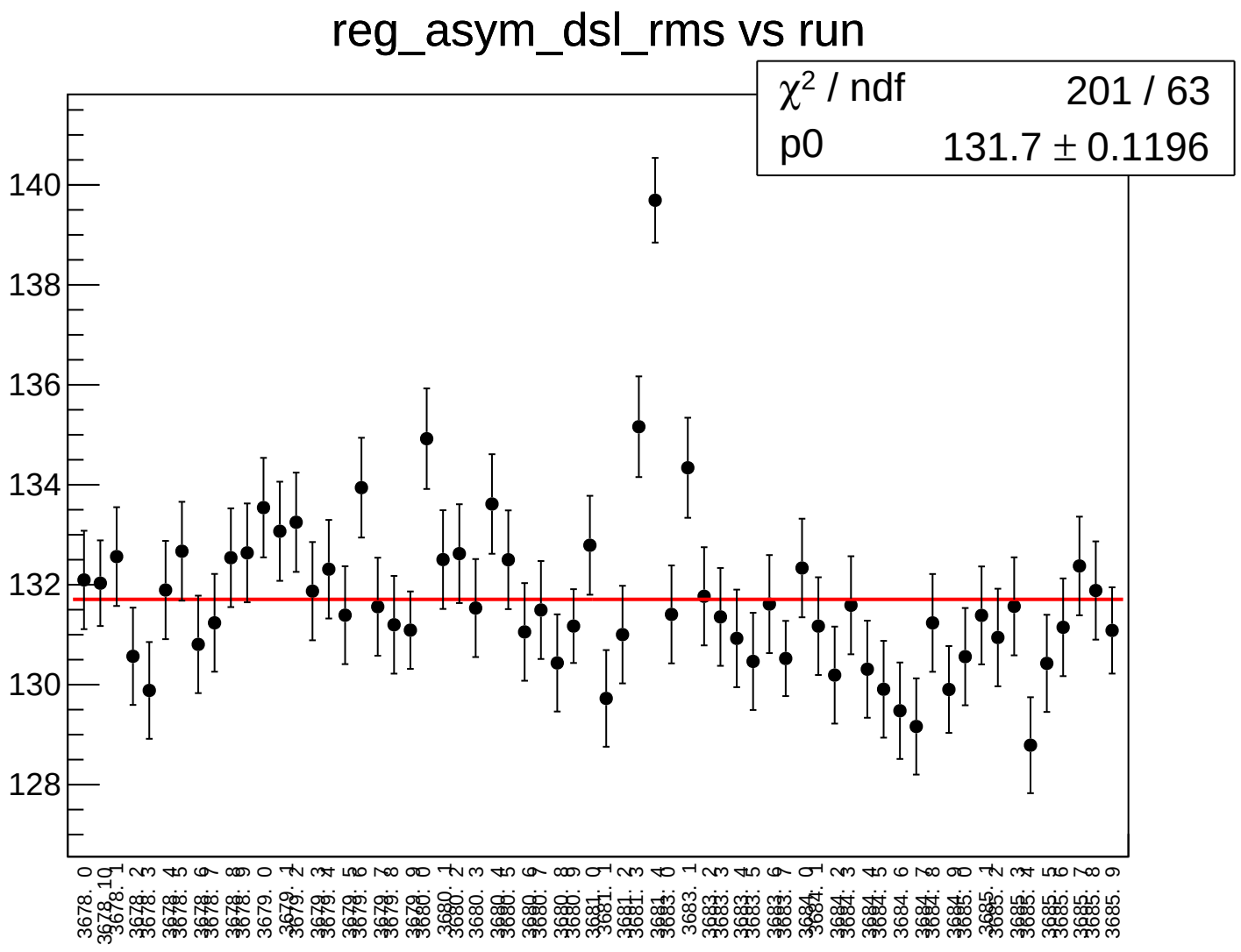

asym_usr_mean vs run
$\chi^2$ / ndf 65.1 / 63
p0 452.6 ± 803.2
20000
10000
0
−10000
−20000
pull
Entries 64
Mean −26.44
Std Dev 174
2
1
0
−1
−2
−3

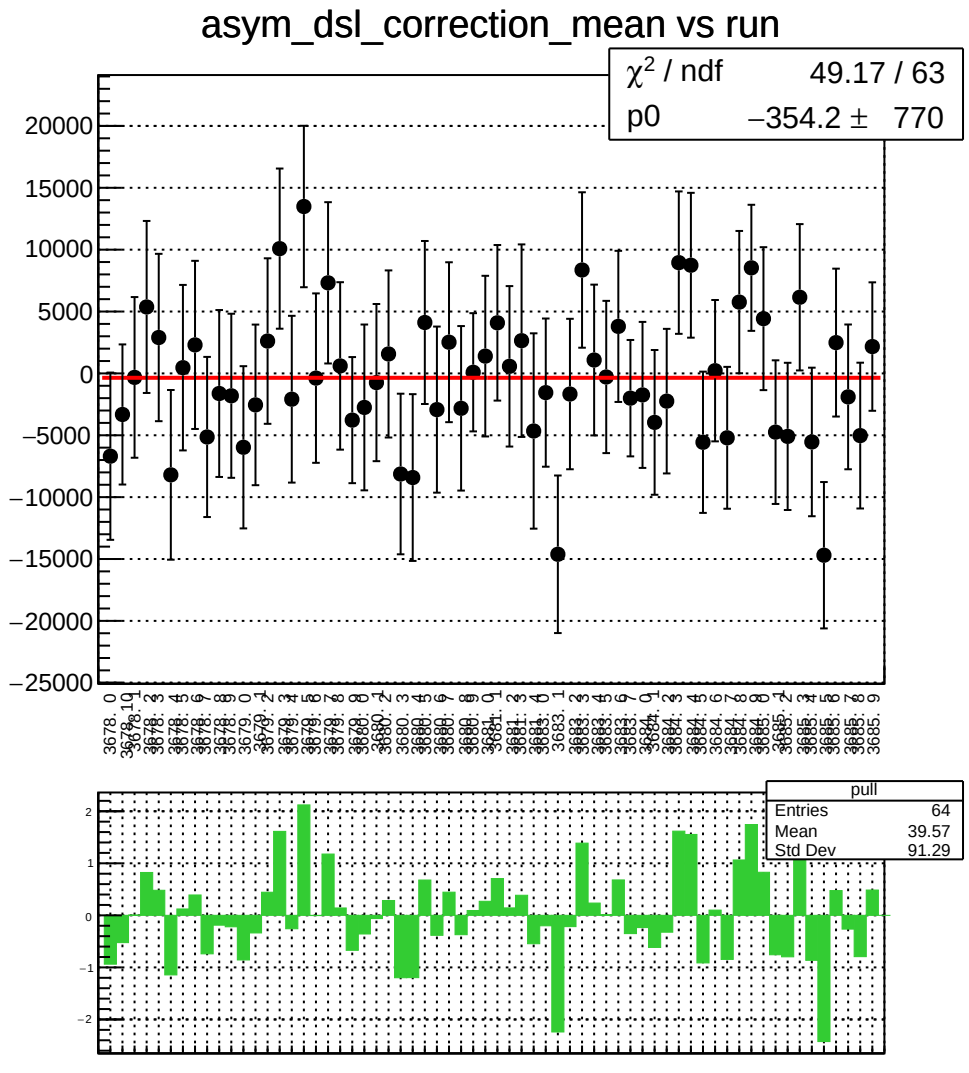

pull1D
Entries 64
Mean −0.001493
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

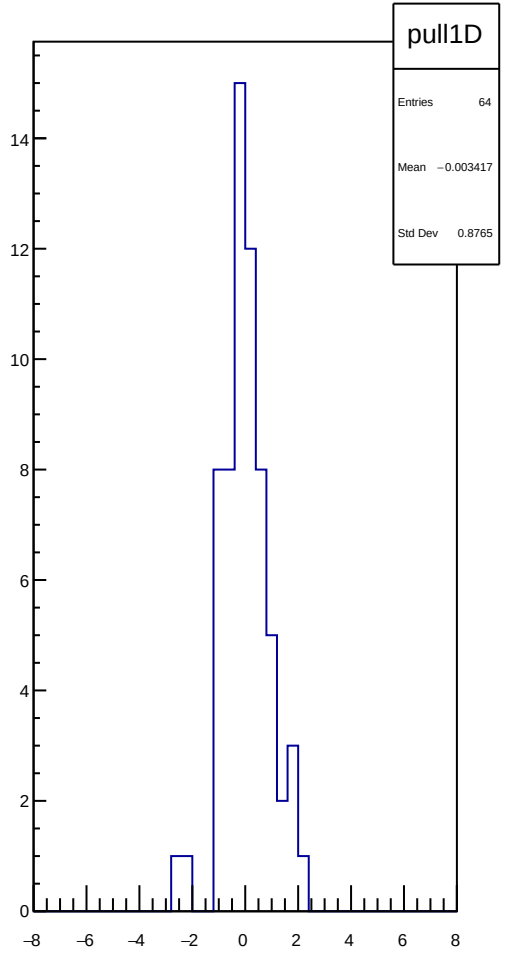

asym_usr_rms vs run
$\chi^2$ / ndf 1.303e+04 / 63
p0 622 ± 0.5679
1400
1200
1000
800
600

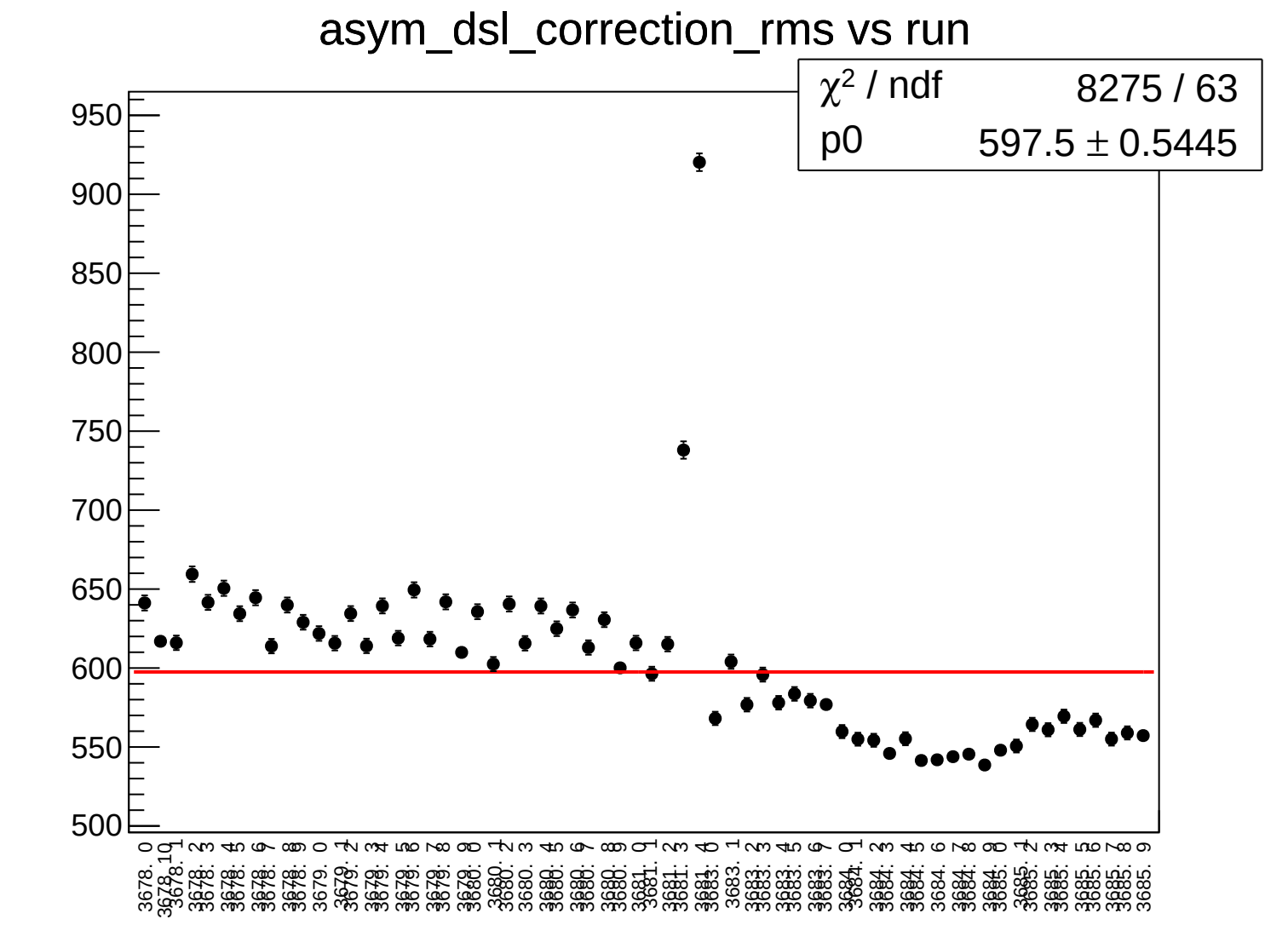

reg_asym_dsl_mean vs run
χ² / ndf 68.86 / 63
p0 464.7 ± 169.2
pull
Entries 64
Mean 103.5
Std Dev 67.08

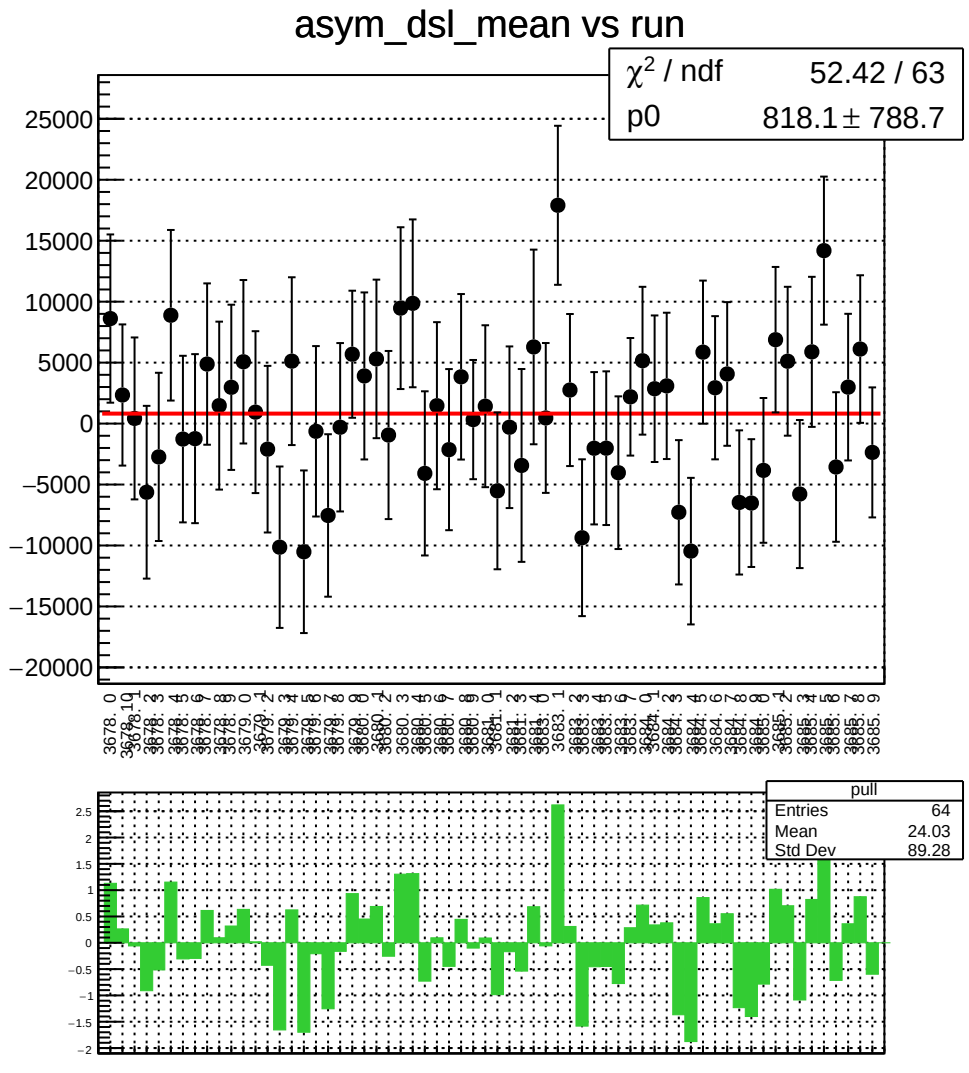

pull1D
Entries 64
Mean −0.003301
Std Dev 1.037

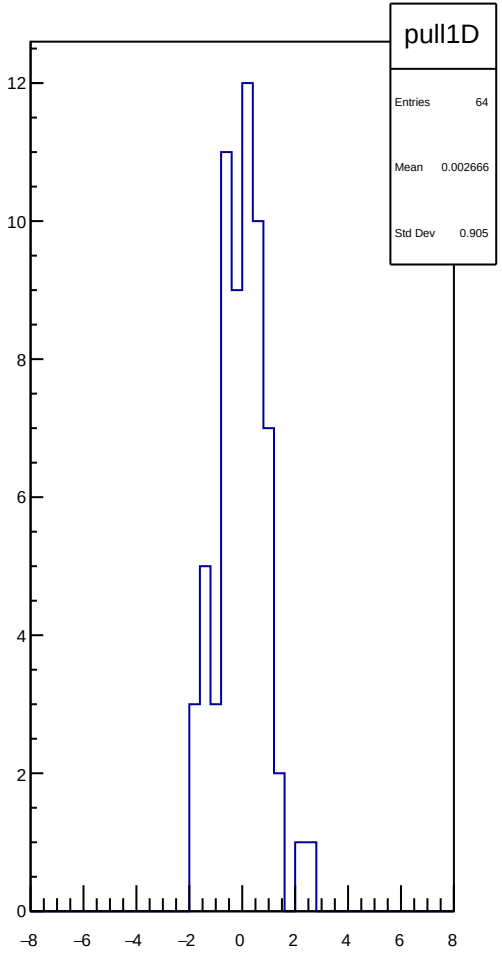

reg_asym_dsl_rms vs run
χ² / ndf 201 / 63
p0 131.7 ± 0.1196
140
138
136
134
132
130
128

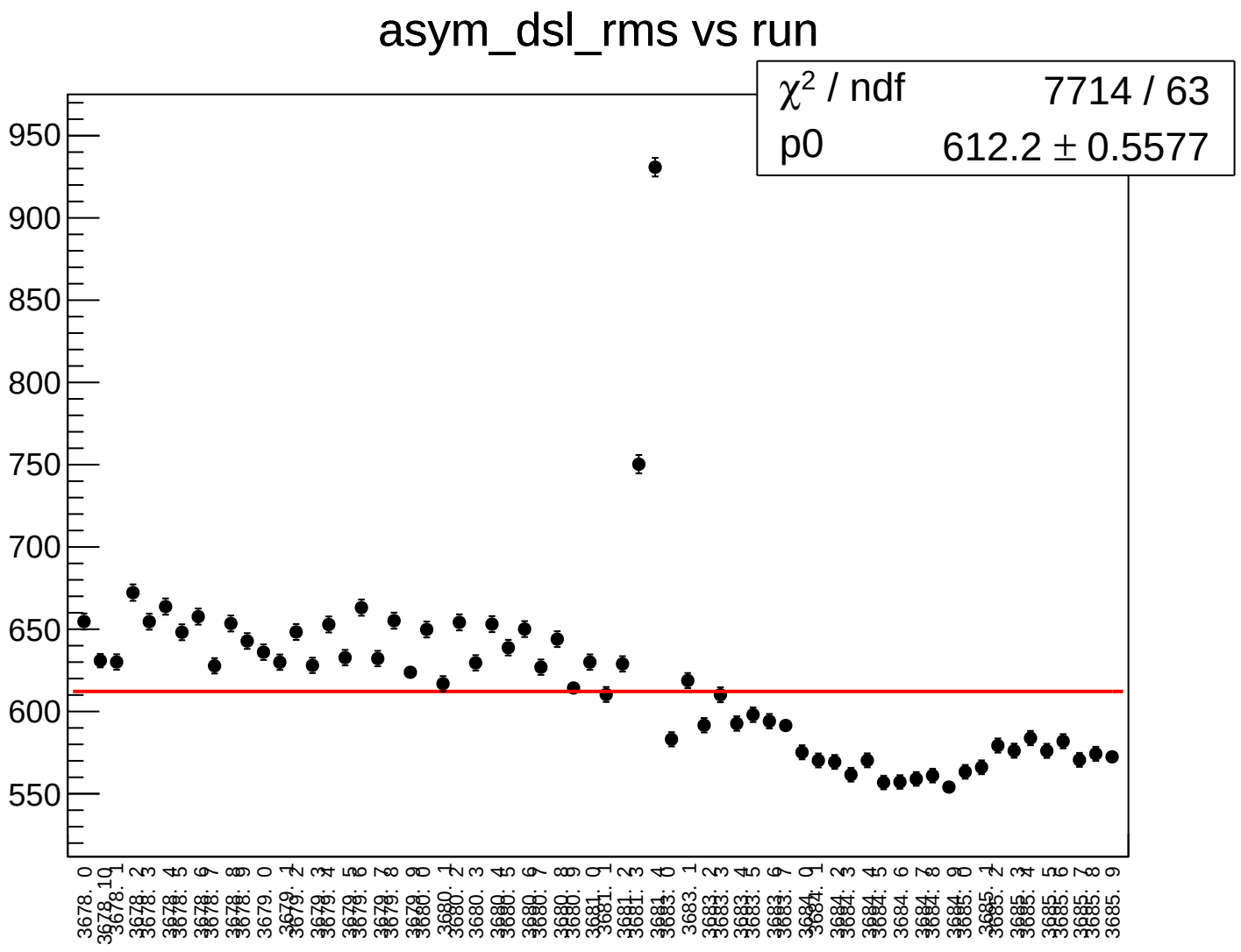

asym_dsl_correction_mean vs run
χ² / ndf 49.17 / 63
p0 −354.2 ± 770
pull
Entries 64
Mean 39.57
Std Dev 91.29

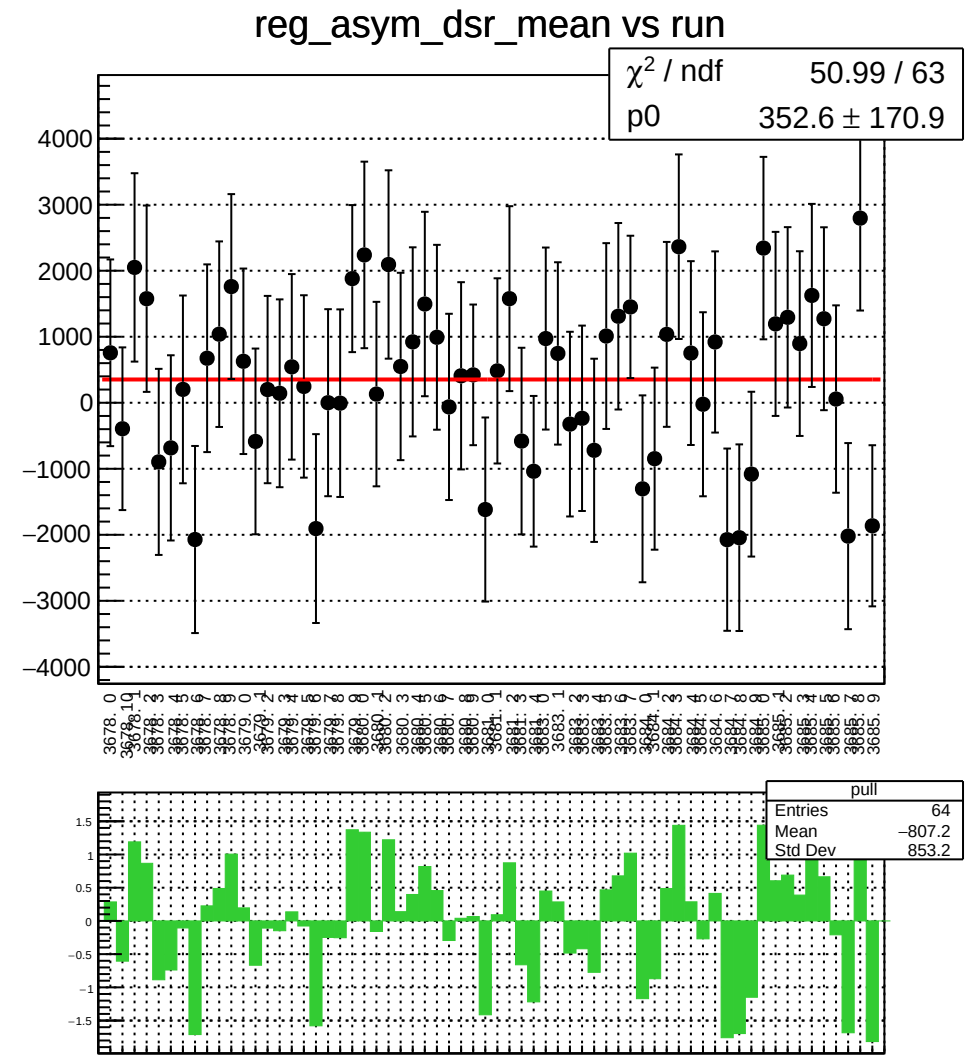

pull1D
Entries 64
Mean −0.003417
Std Dev 0.8765

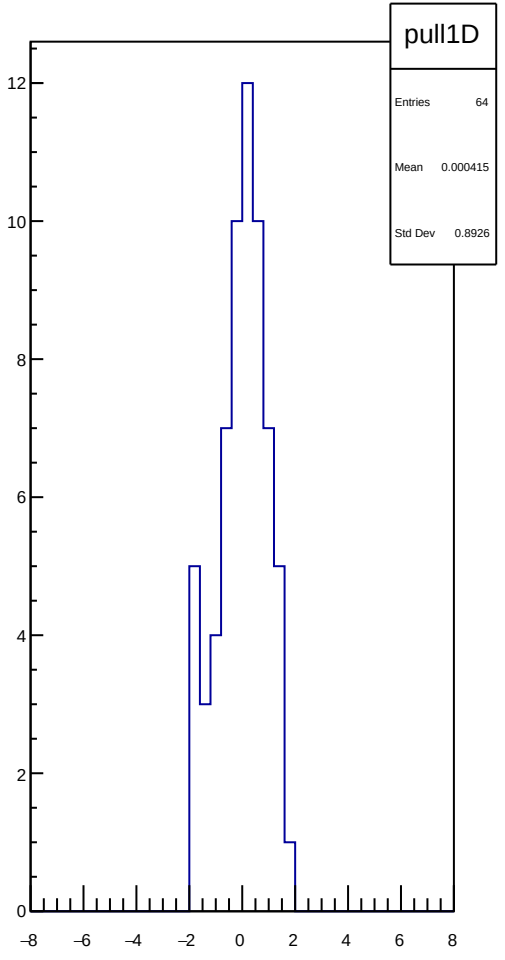

asym_dsl_correction_rms vs run
χ² / ndf 8275 / 63
p0 597.5 ± 0.5445
950
900
850
800
750
700
650
600
550
500

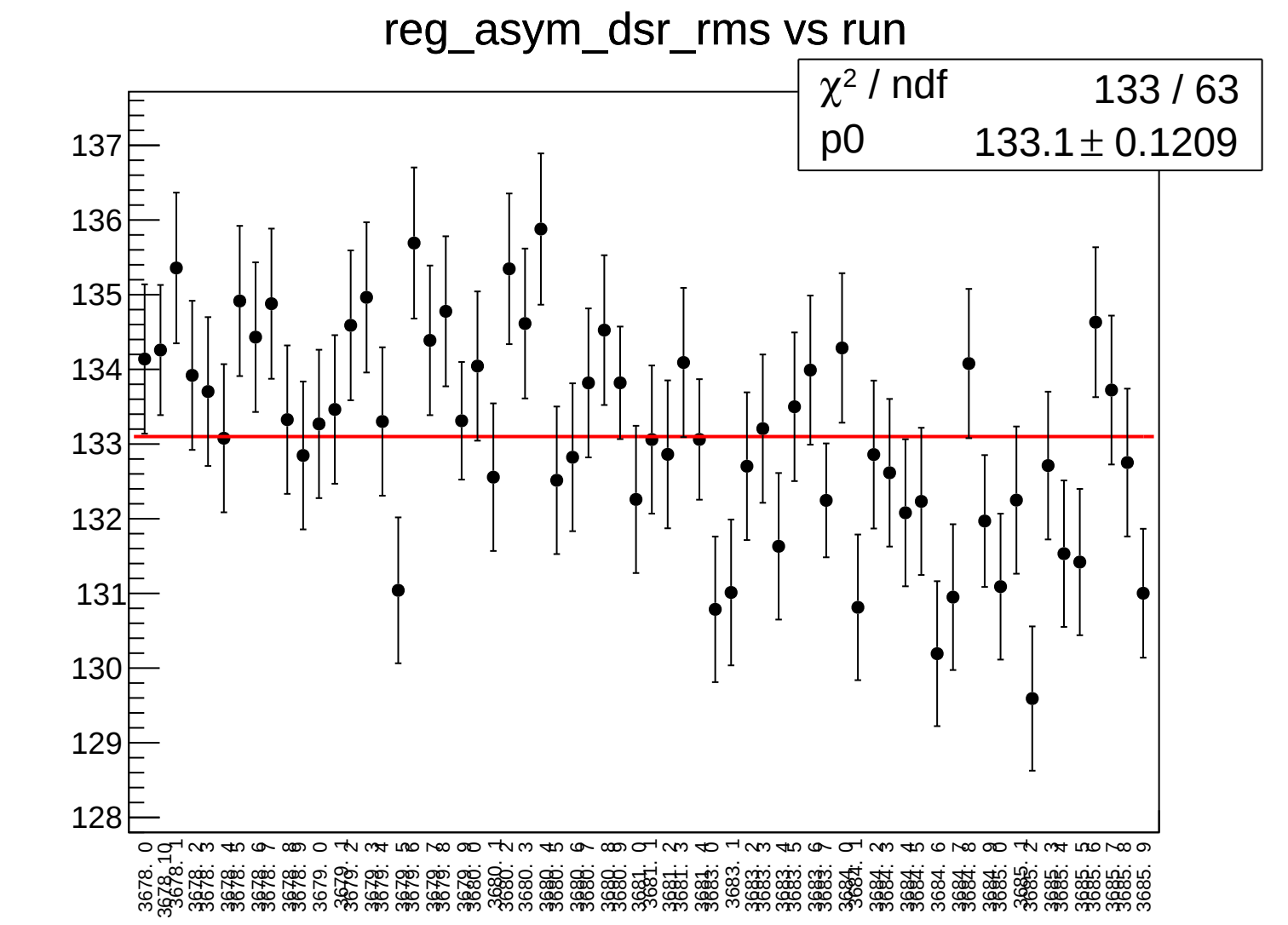

asym_dsl_mean vs run
χ² / ndf 52.42 / 63
p0 818.1 ± 788.7
pull
Entries 64
Mean 24.03
Std Dev 89.28

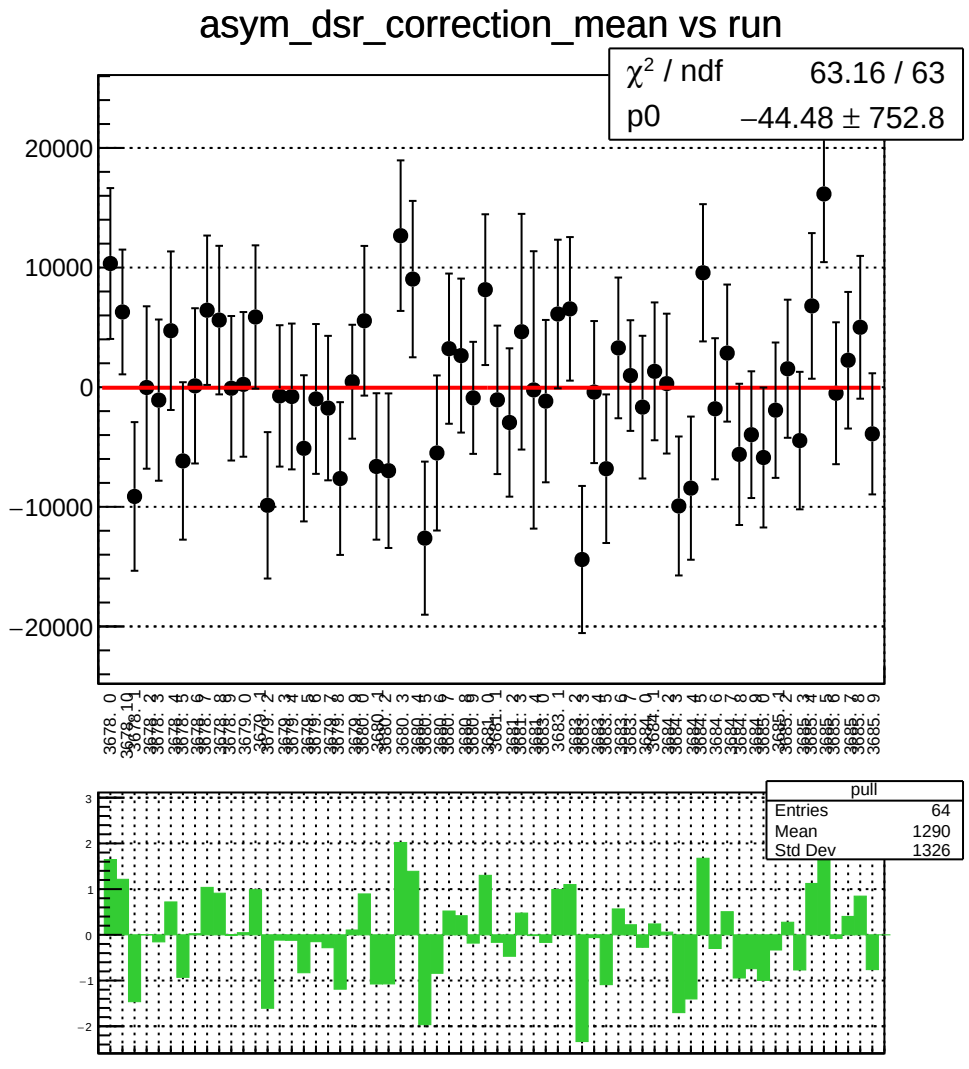

pull1D
Entries 64
Mean 0.002666
Std Dev 0.905

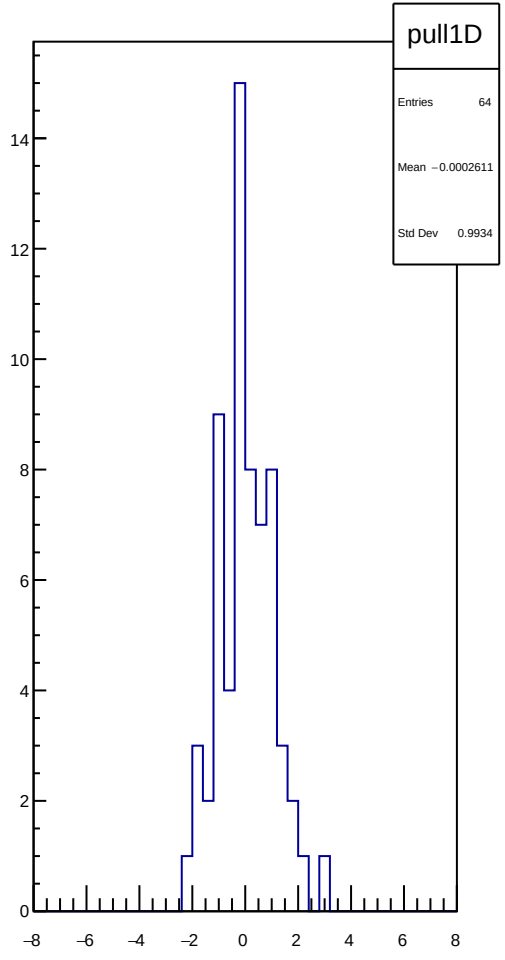

asym_dsl_rms vs run
χ² / ndf 7714 / 63
p0 612.2 ± 0.5577
950
900
850
800
750
700
650
600
550

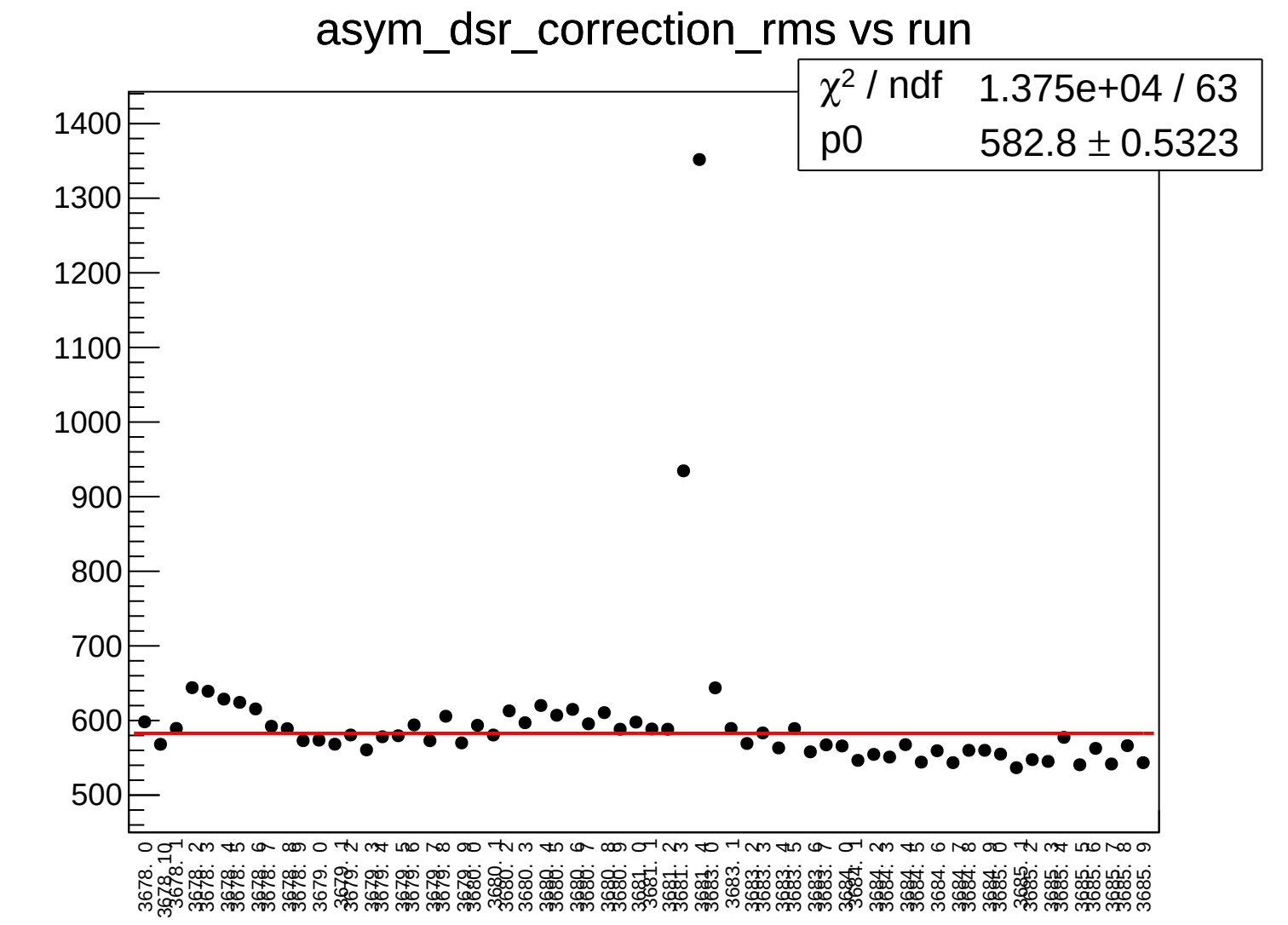

reg_asym_dsr_mean vs run
χ² / ndf 50.99 / 63
p0 352.6 ± 170.9
pull
Entries 64
Mean −807.2
Std Dev 853.2

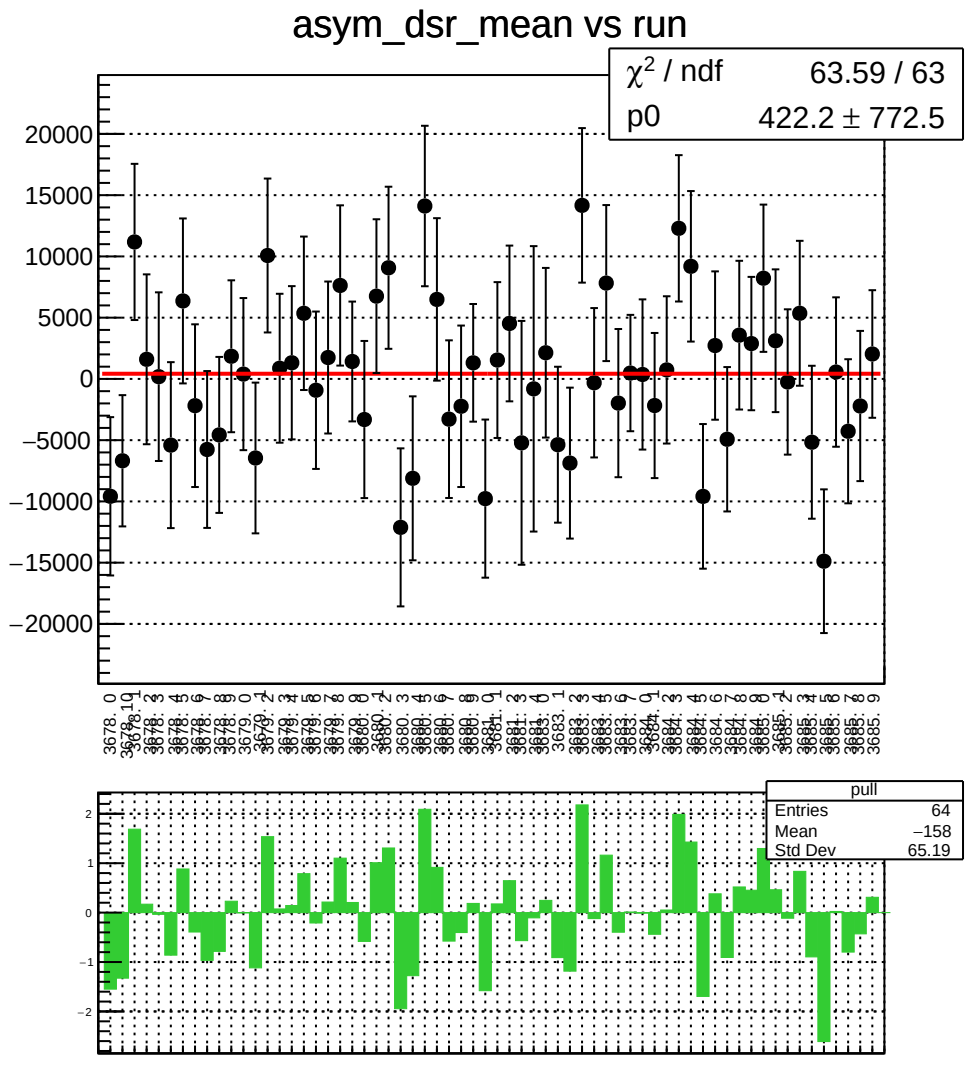

pull1D
Entries 64
Mean 0.000415
Std Dev 0.8926

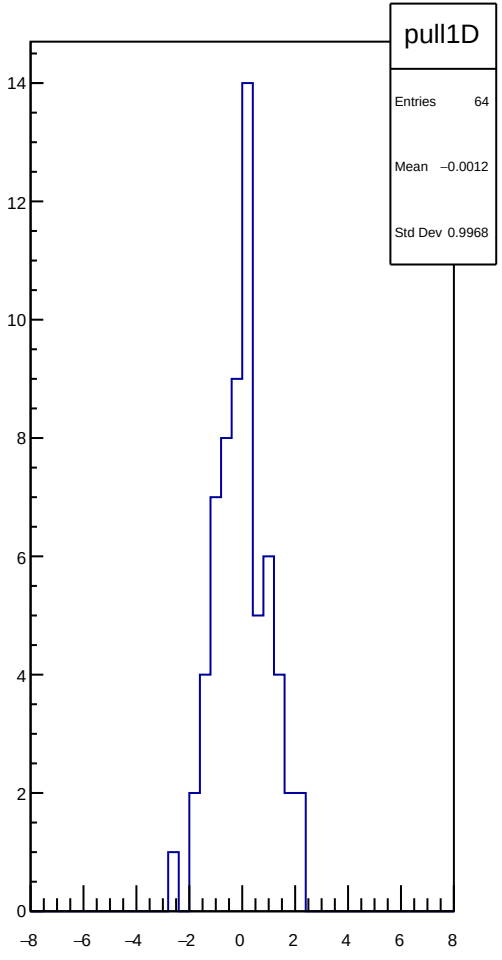

reg_asym_dsr_rms vs run
χ² / ndf 133 / 63
p0 133.1 ± 0.1209
137
136
135
134
133
132
131
130
129
128

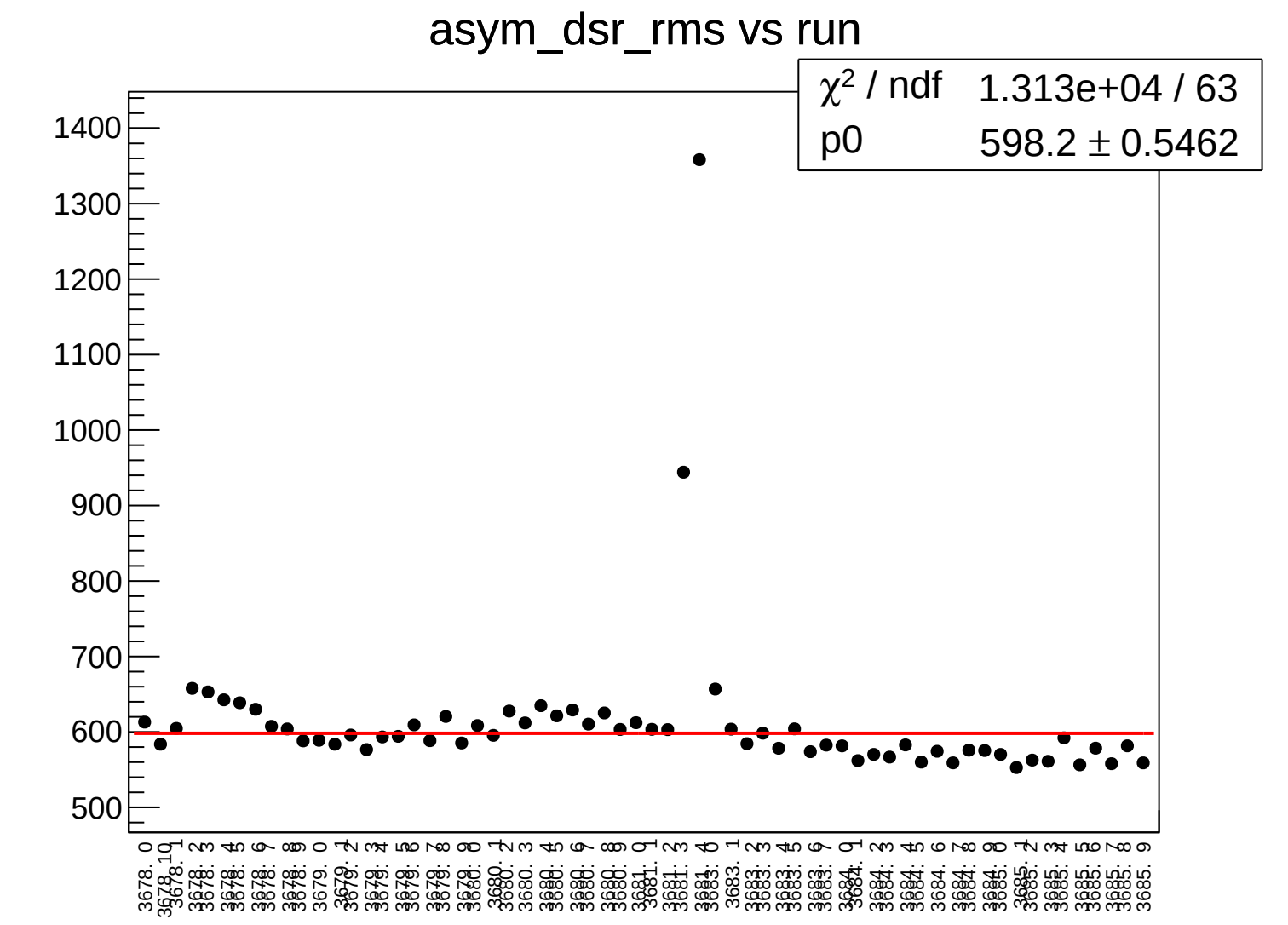

asym_dsr_correction_mean vs run
χ² / ndf 63.16 / 63
p0 −44.48 ± 752.8
20000
10000
0
−10000
−20000
pull
Entries 64
Mean 1290
Std Dev 1326
3
2
1
0
−1
−2

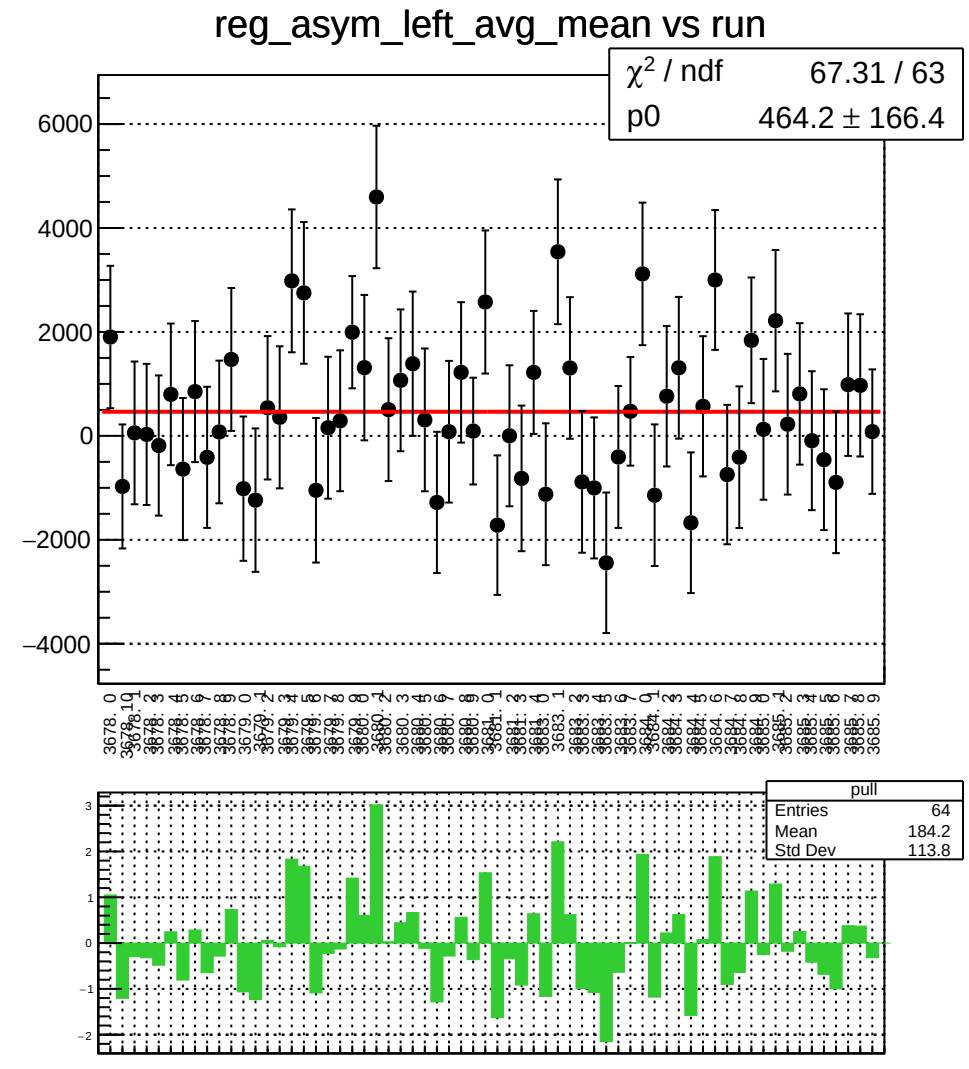

pull1D
Entries 64
Mean −0.0002611
Std Dev 0.9934
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

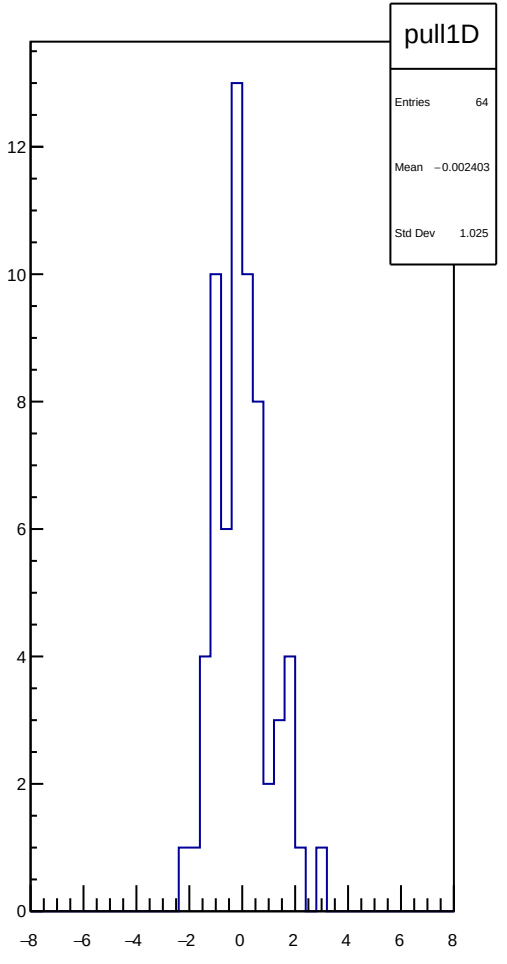

asym_dsr_correction_rms vs run
χ² / ndf 1.375e+04 / 63
p0 582.8 ± 0.5323
1400
1300
1200
1100
1000
900
800
700
600
500

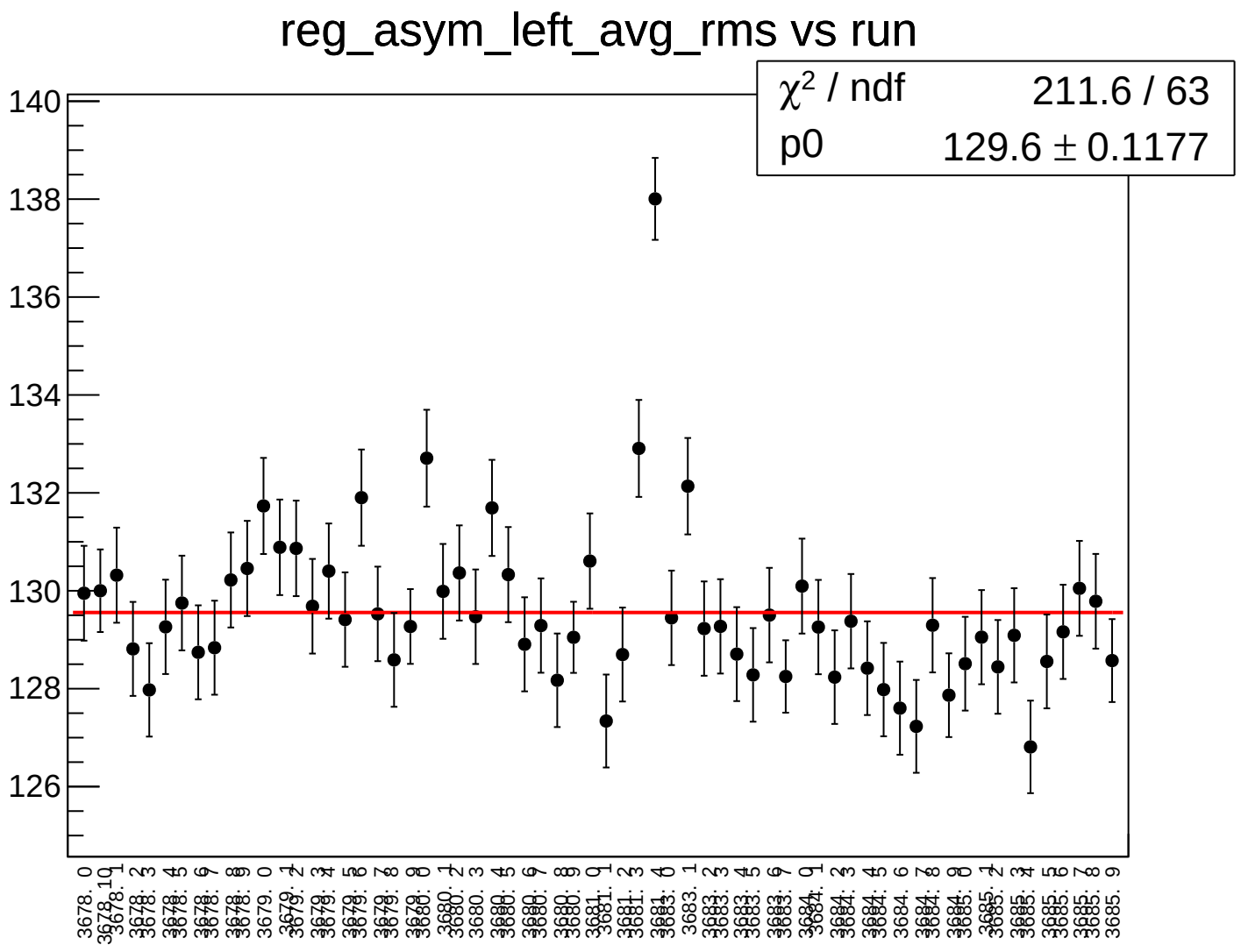

asym_dsr_mean vs run
$\chi^2$ / ndf 63.59 / 63
p0 422.2 ± 772.5
pull
Entries 64
Mean −158
Std Dev 65.19

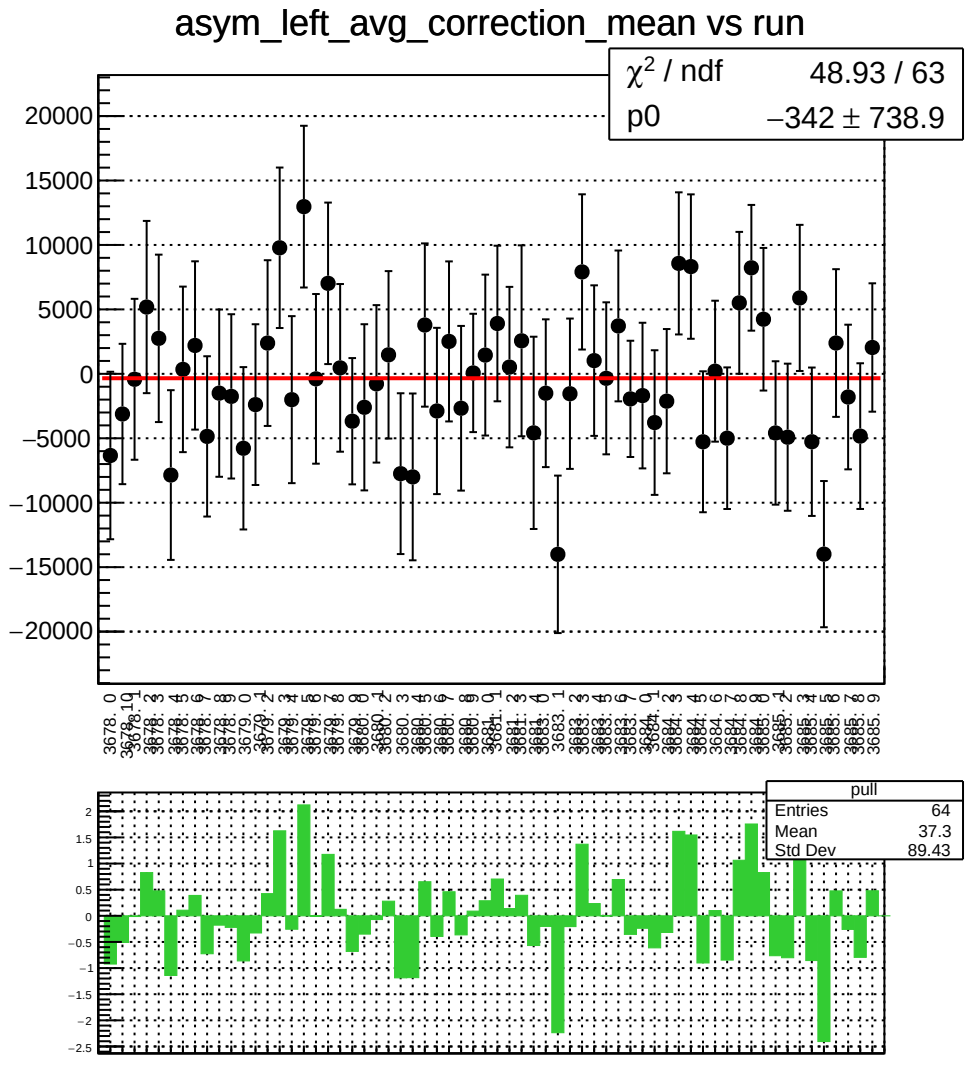

pull1D
Entries 64
Mean −0.0012
Std Dev 0.9968

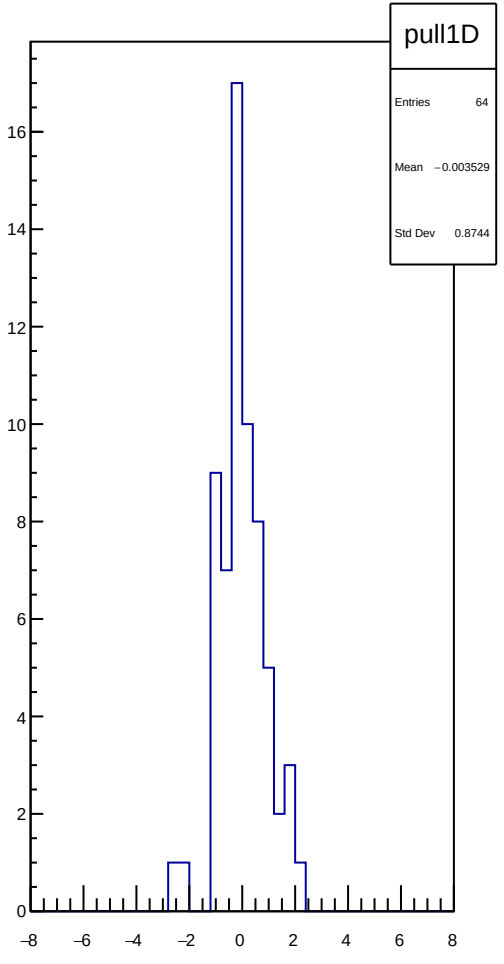

asym_dsr_rms vs run
χ² / ndf 1.313e+04 / 63
p0 598.2 ± 0.5462
1400
1300
1200
1100
1000
900
800
700
600
500

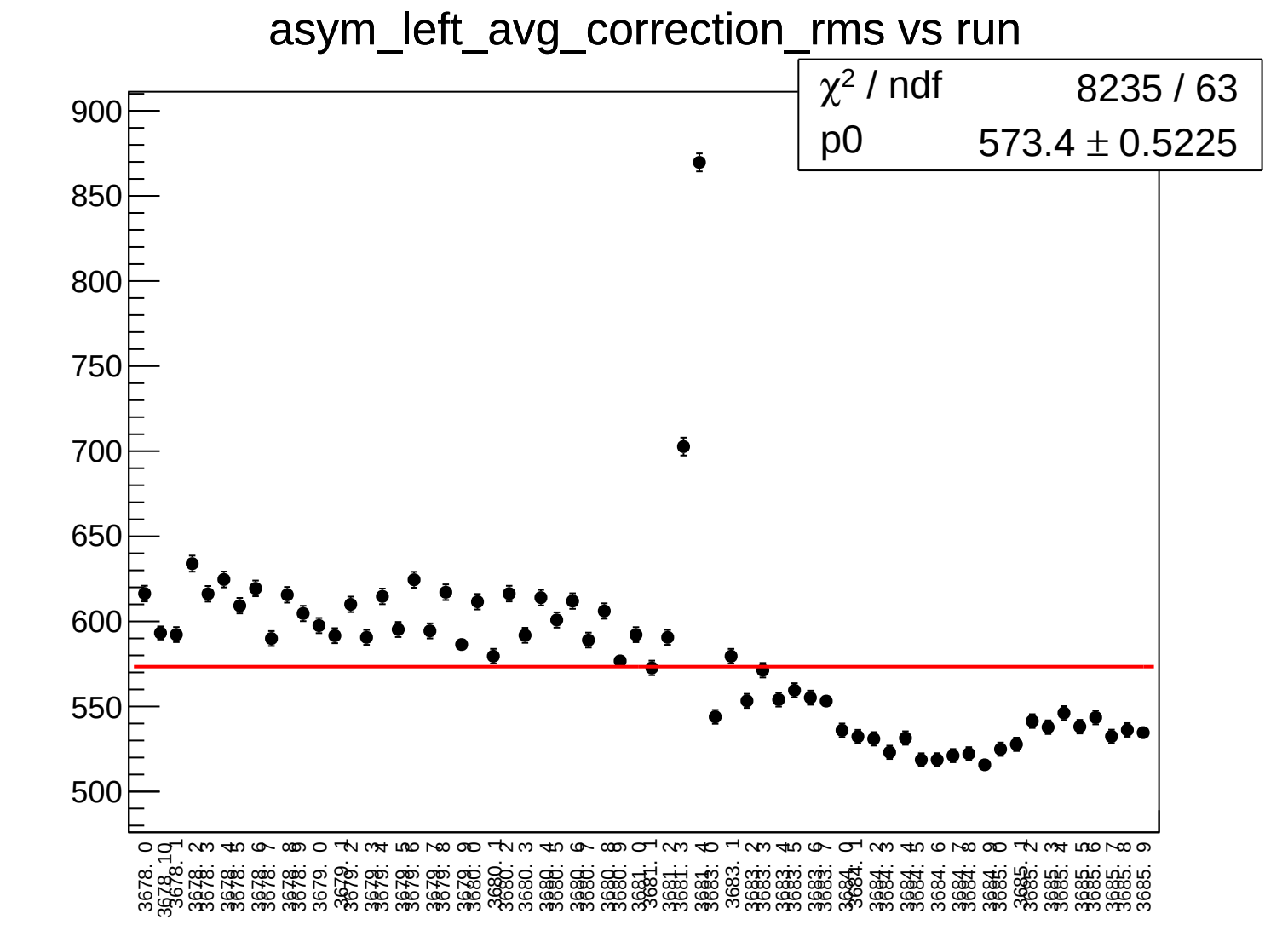

reg_asym_left_avg_mean vs run
χ² / ndf 67.31 / 63
p0 464.2 ± 166.4
6000
4000
2000
0
−2000
−4000
pull
Entries 64
Mean 184.2
Std Dev 113.8
3
2
1
0
−1
−2

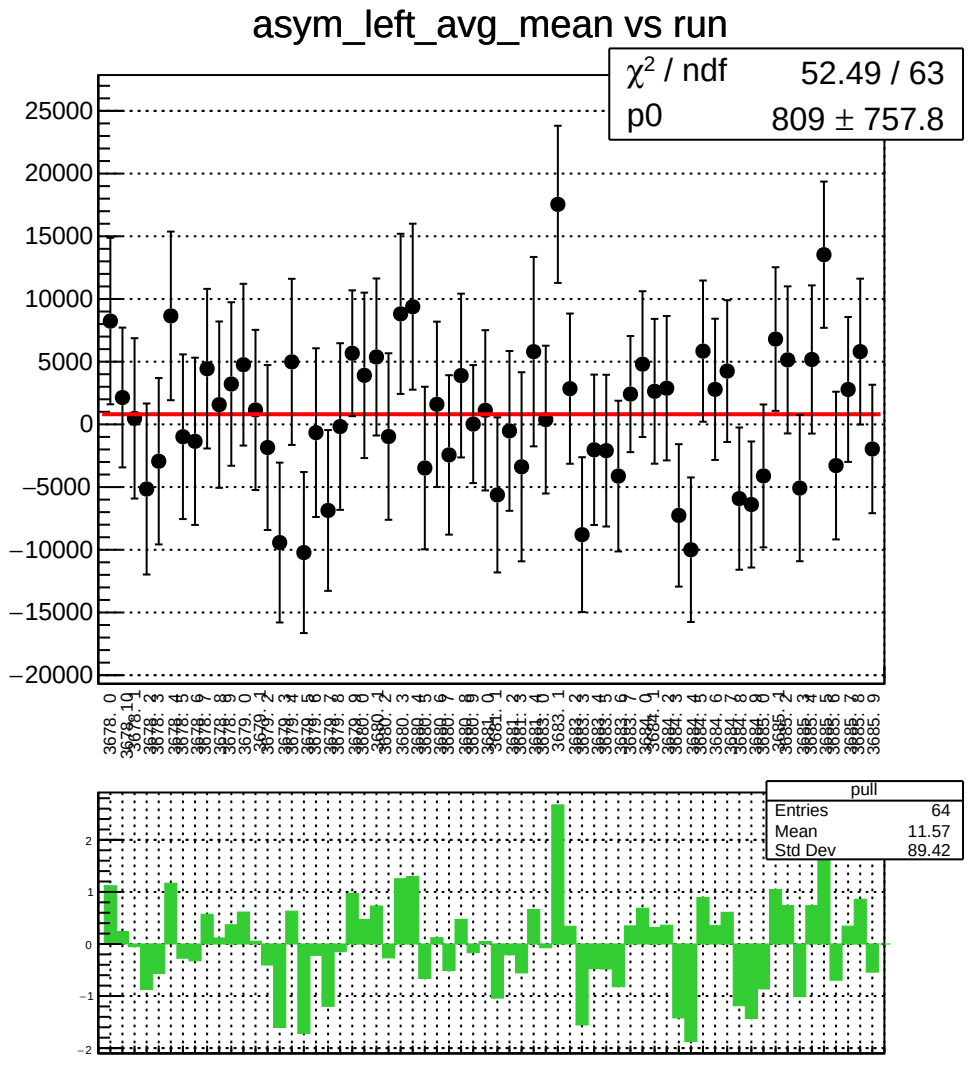

pull1D
Entries 64
Mean −0.002403
Std Dev 1.025
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

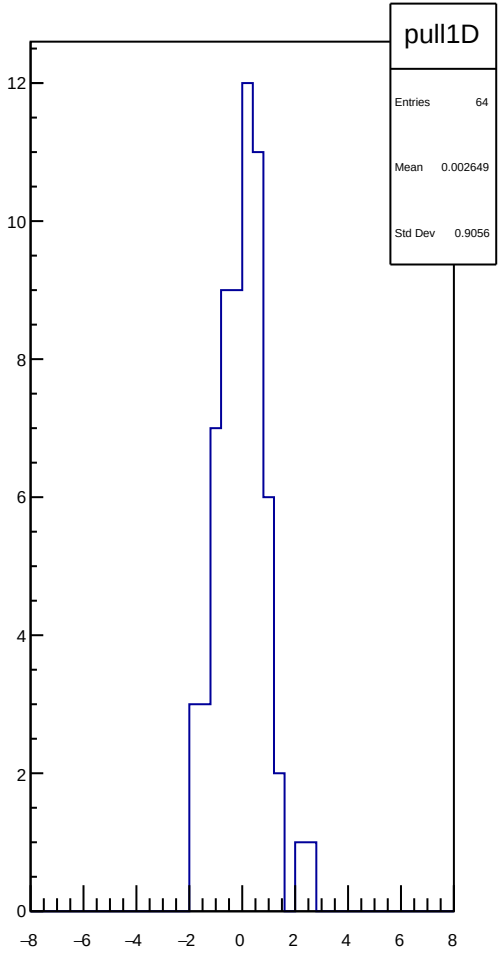

reg_asym_left_avg_rms vs run
χ² / ndf 211.6 / 63
p0 129.6 ± 0.1177
140
138
136
134
132
130
128
126

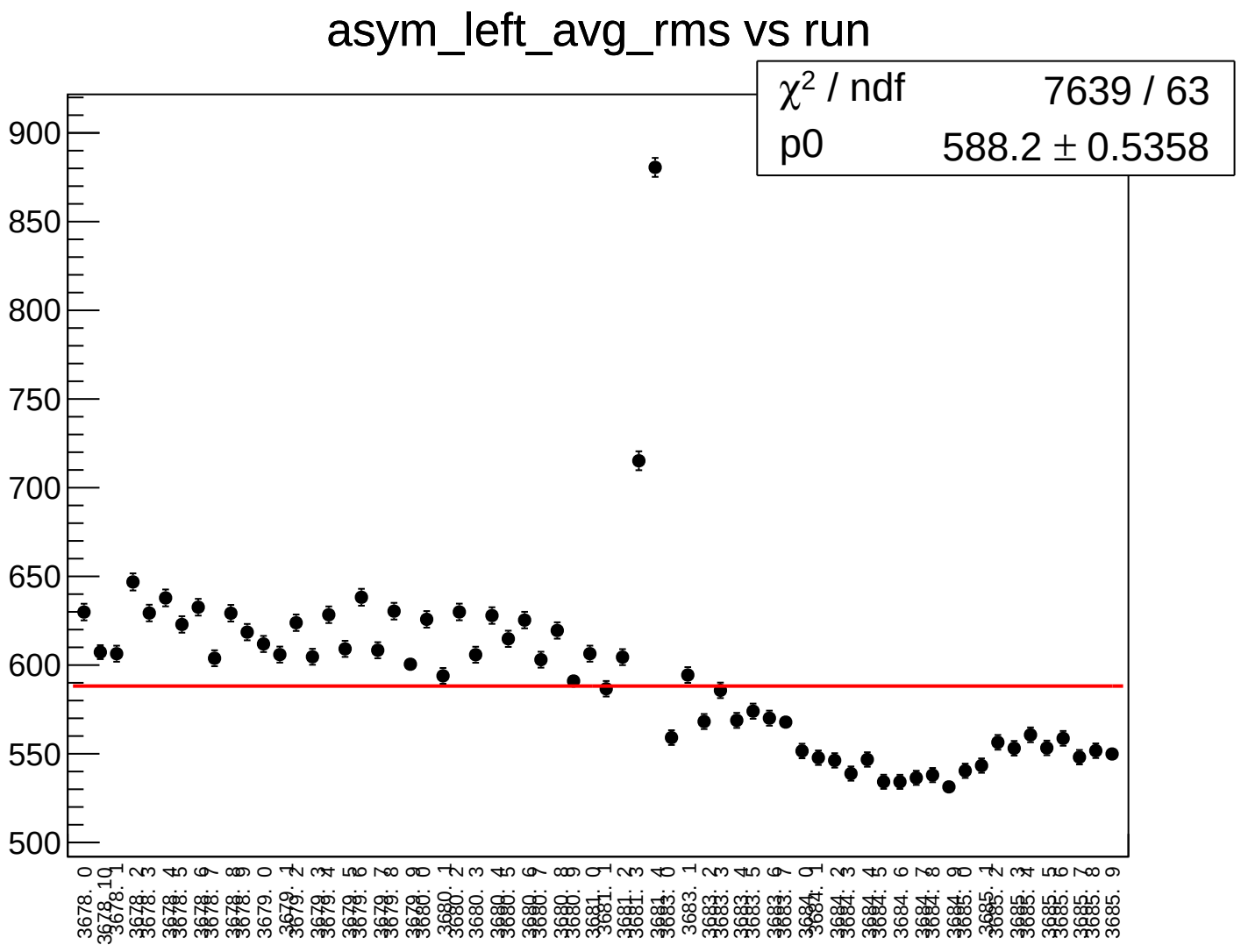

asym_left_avg_correction_mean vs run
χ² / ndf 48.93 / 63
p0 −342 ± 738.9
pull
Entries 64
Mean 37.3
Std Dev 89.43

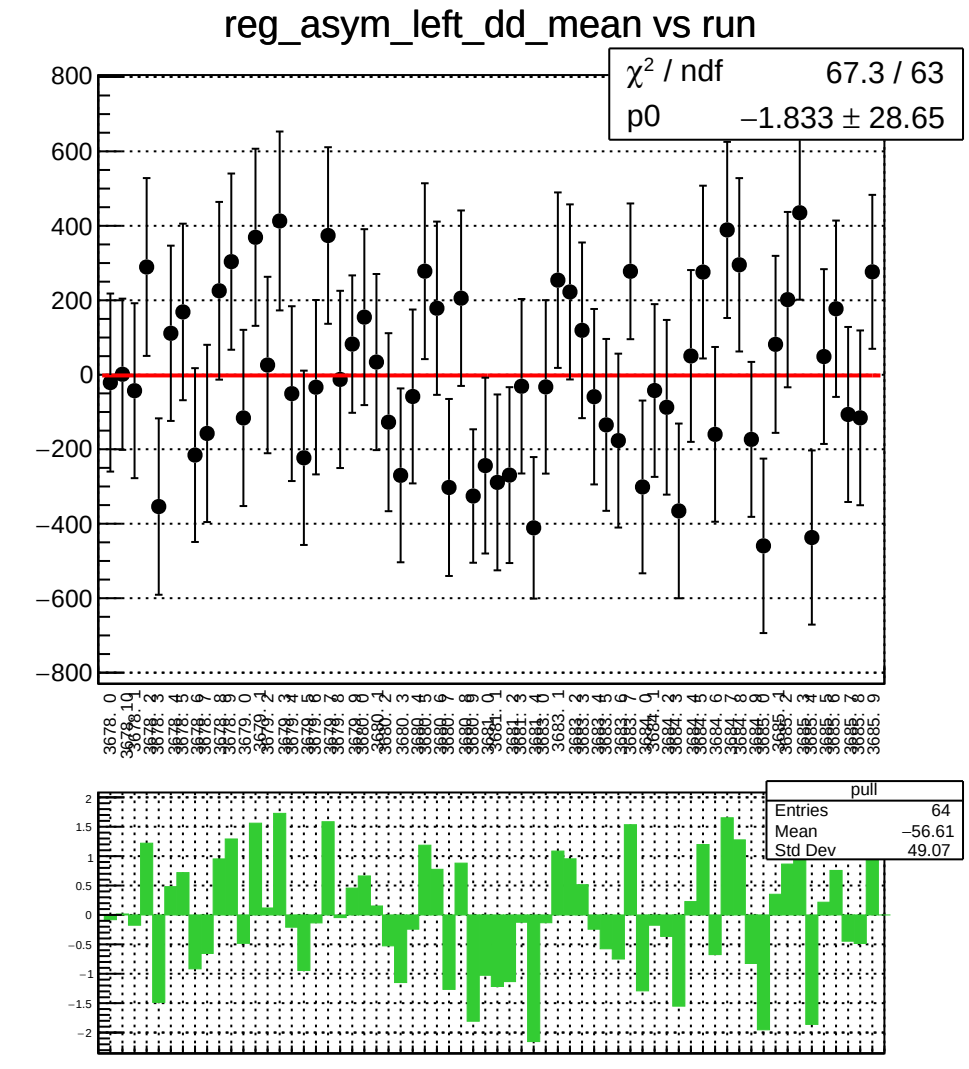

pull1D
Entries 64
Mean −0.003529
Std Dev 0.8744

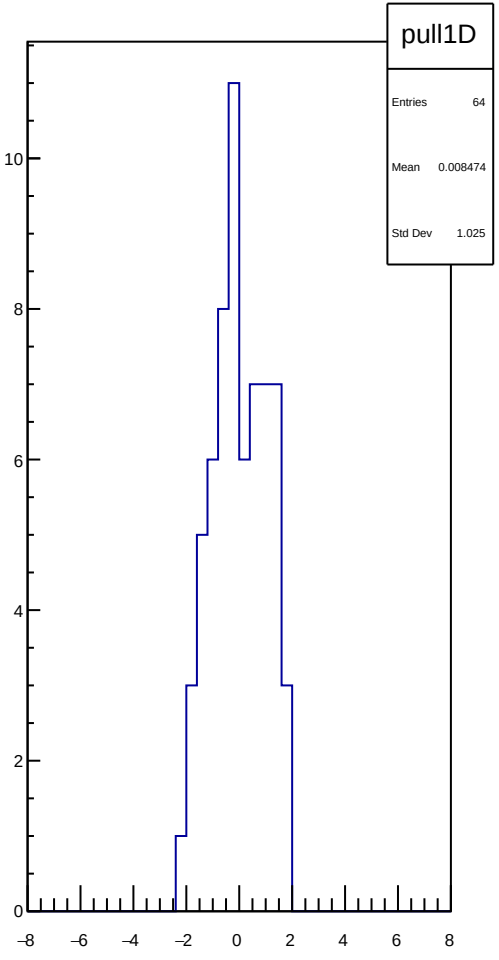

asym_left_avg_correction_rms vs run
$\chi^2$ / ndf 8235 / 63
p0 573.4 ± 0.5225
900
850
800
750
700
650
600
550
500

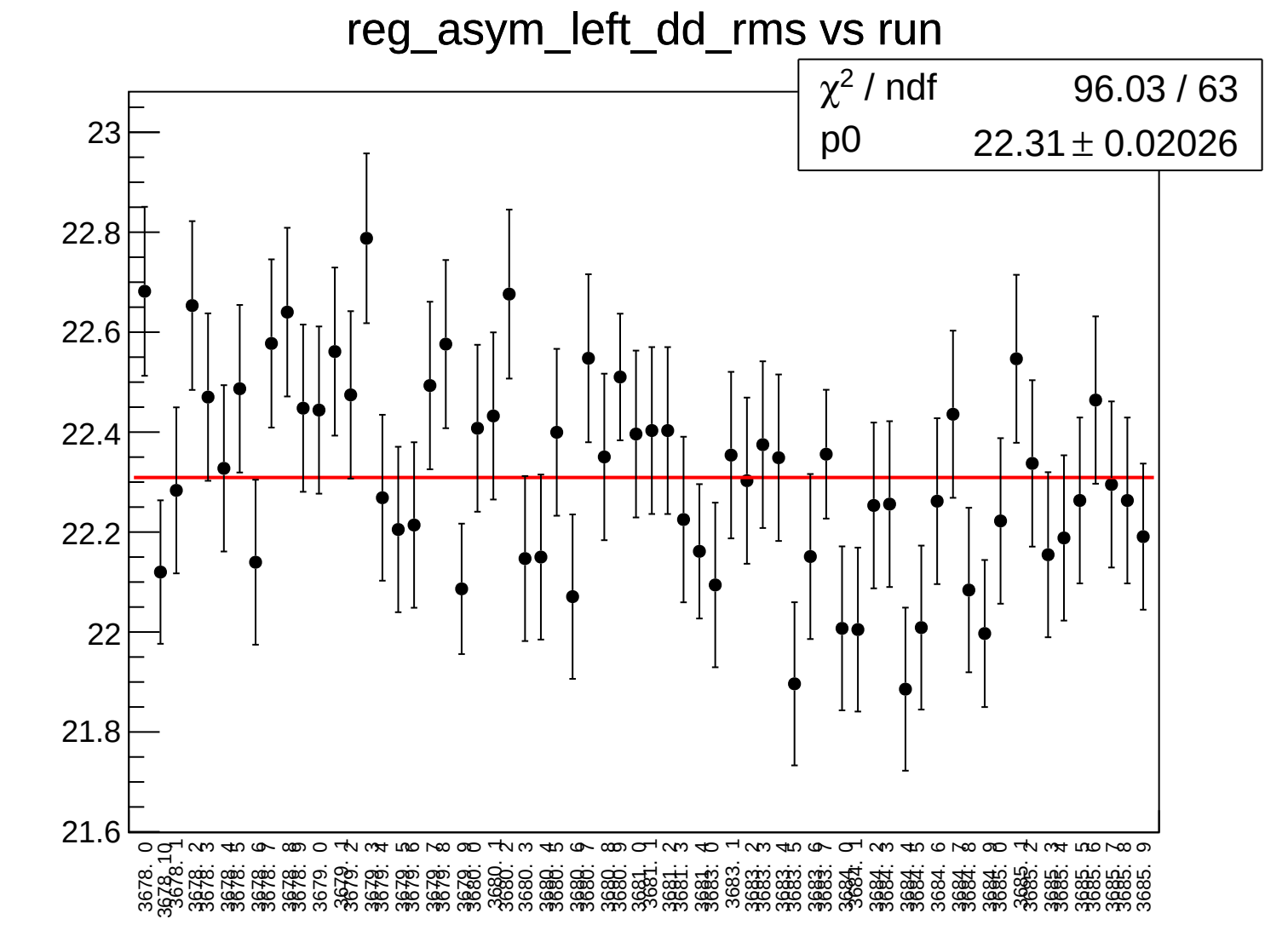

asym_left_avg_mean vs run
χ² / ndf 52.49 / 63
p0 809 ± 757.8
pull
Entries 64
Mean 11.57
Std Dev 89.42

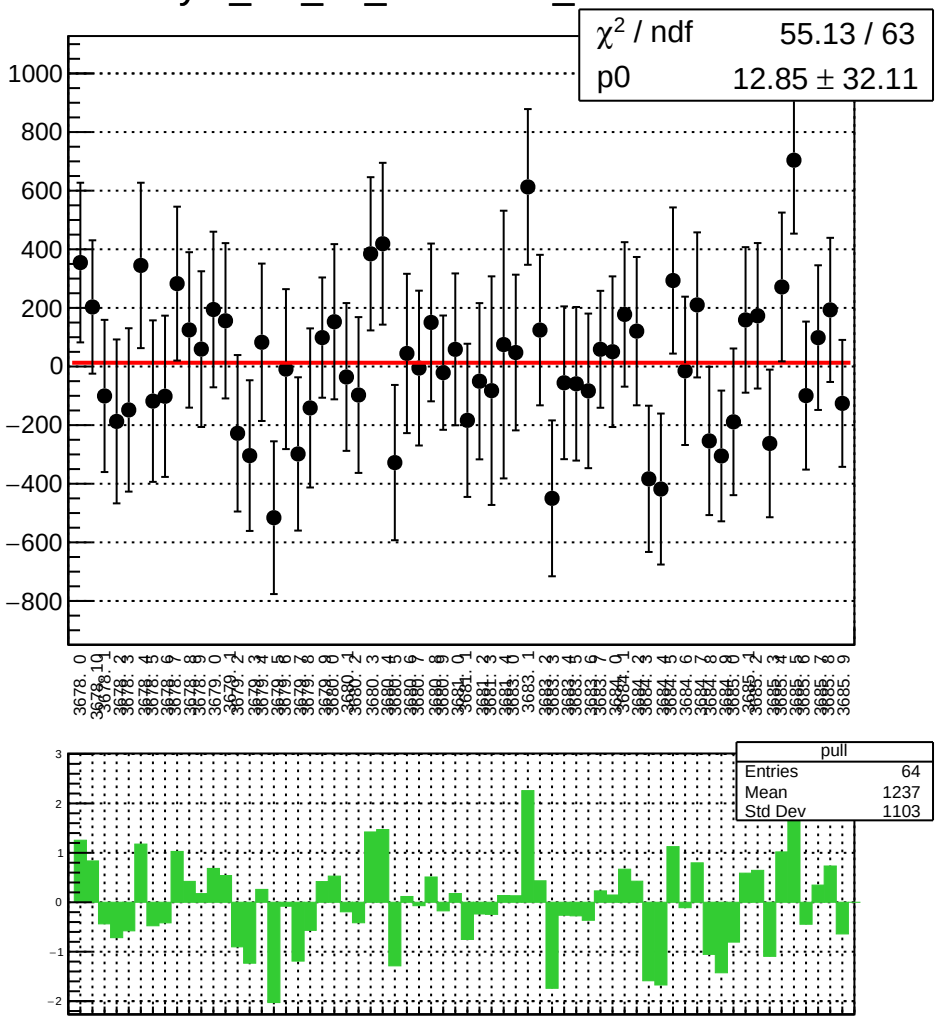

pull1D
Entries 64
Mean 0.002649
Std Dev 0.9056

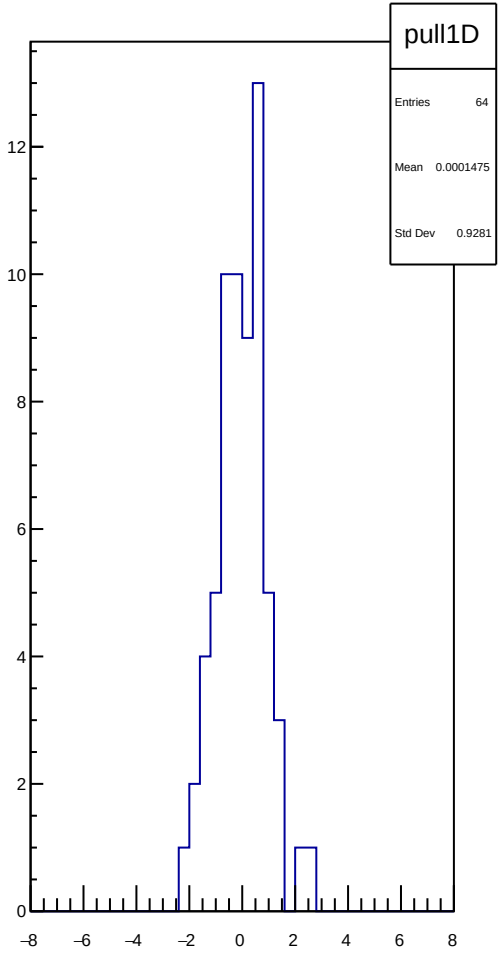

asym_left_avg_rms vs run
$\chi^2$ / ndf 7639 / 63
p0 588.2 ± 0.5358
900
850
800
750
700
650
600
550
500

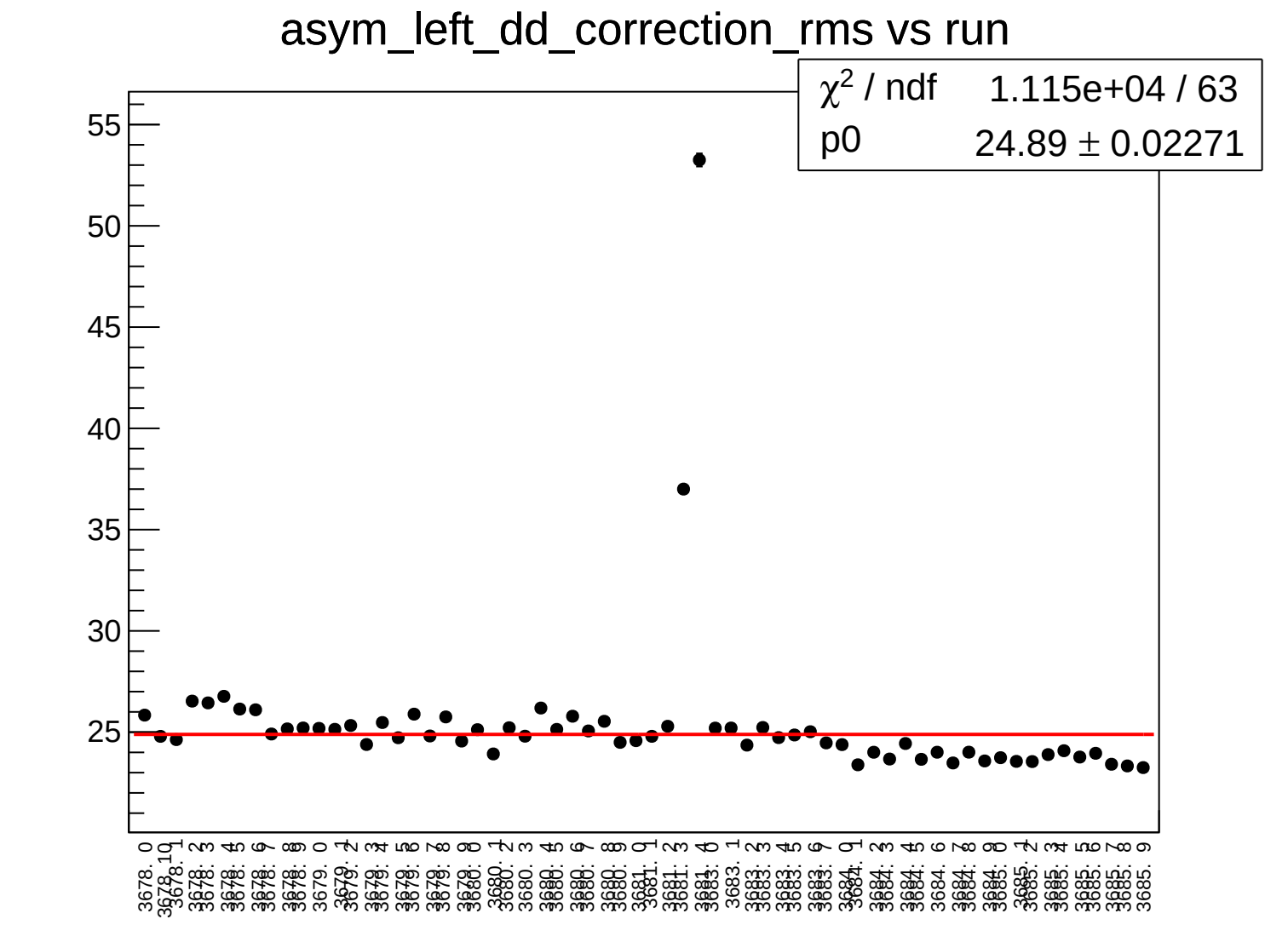

reg_asym_left_dd_mean vs run
χ² / ndf 67.3 / 63
p0 −1.833 ± 28.65
pull
Entries 64
Mean −56.61
Std Dev 49.07

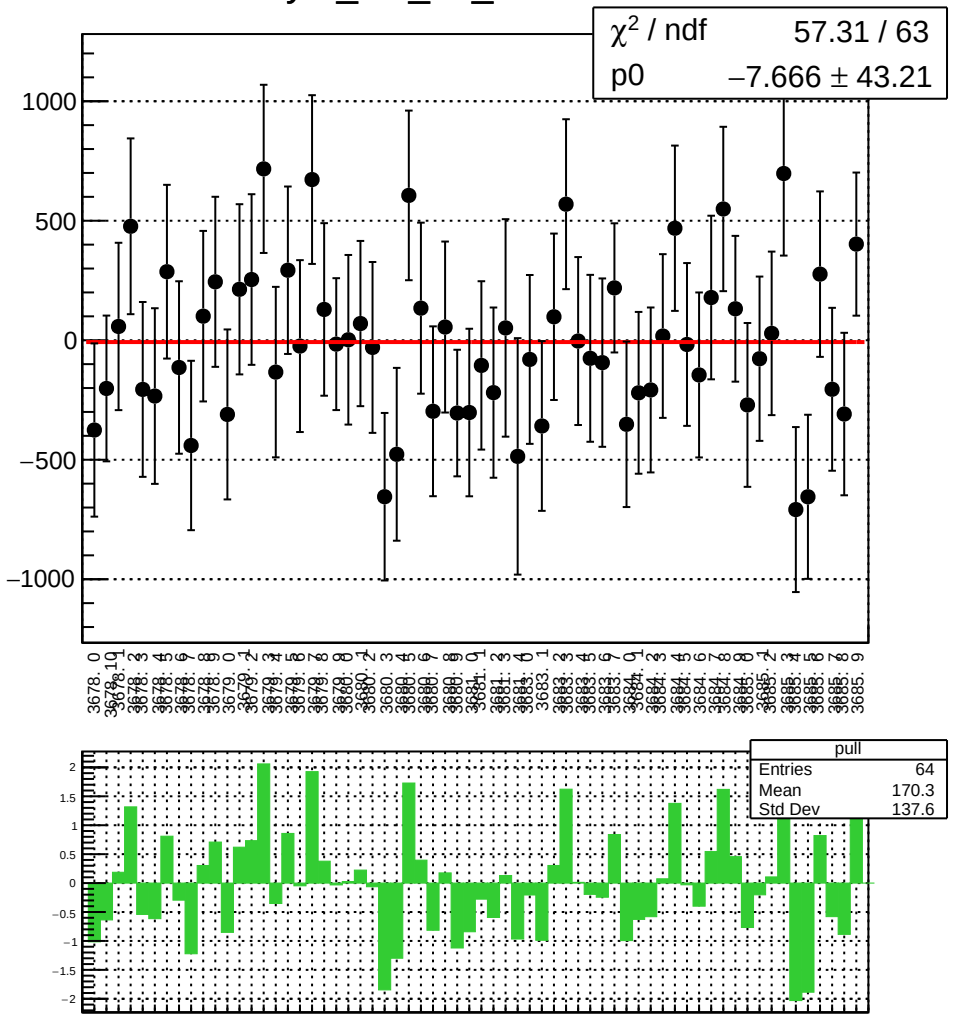

pull1D
Entries 64
Mean 0.008474
Std Dev 1.025

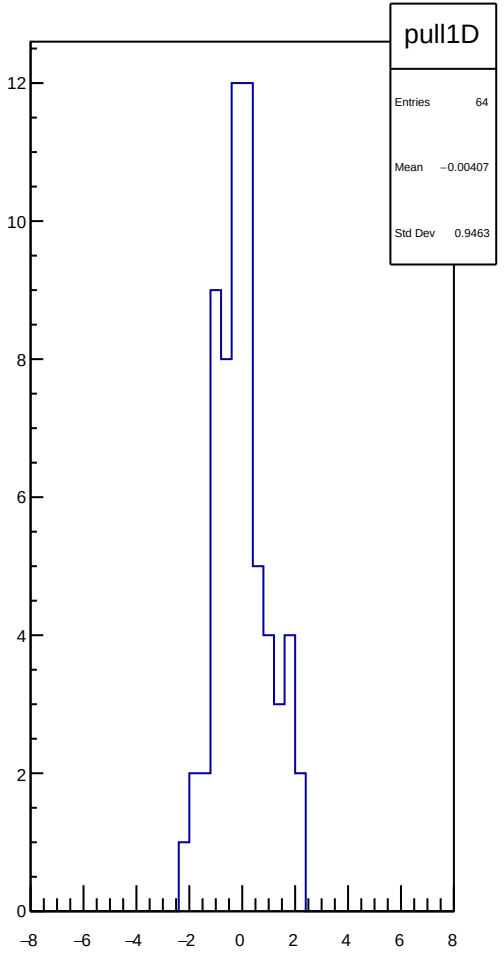

reg_asym_left_dd_rms vs run
$\chi^2$ / ndf 96.03 / 63
p0 22.31 ± 0.02026
23
22.8
22.6
22.4
22.2
22
21.8
21.6

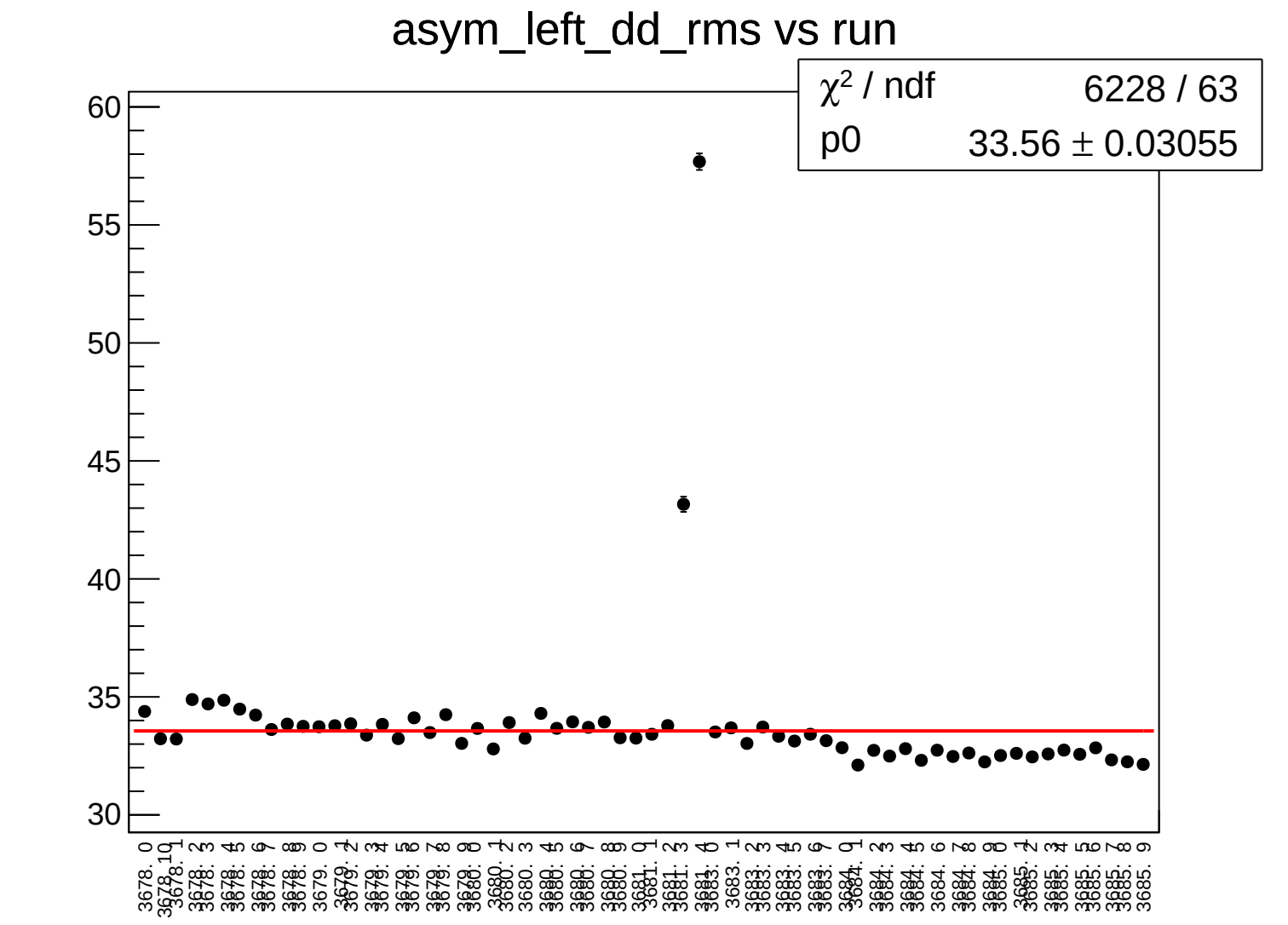

asym_left_dd_correction_mean vs run
χ² / ndf 55.13 / 63
p0 12.85 ± 32.11
pull
Entries 64
Mean 1237
Std Dev 1103

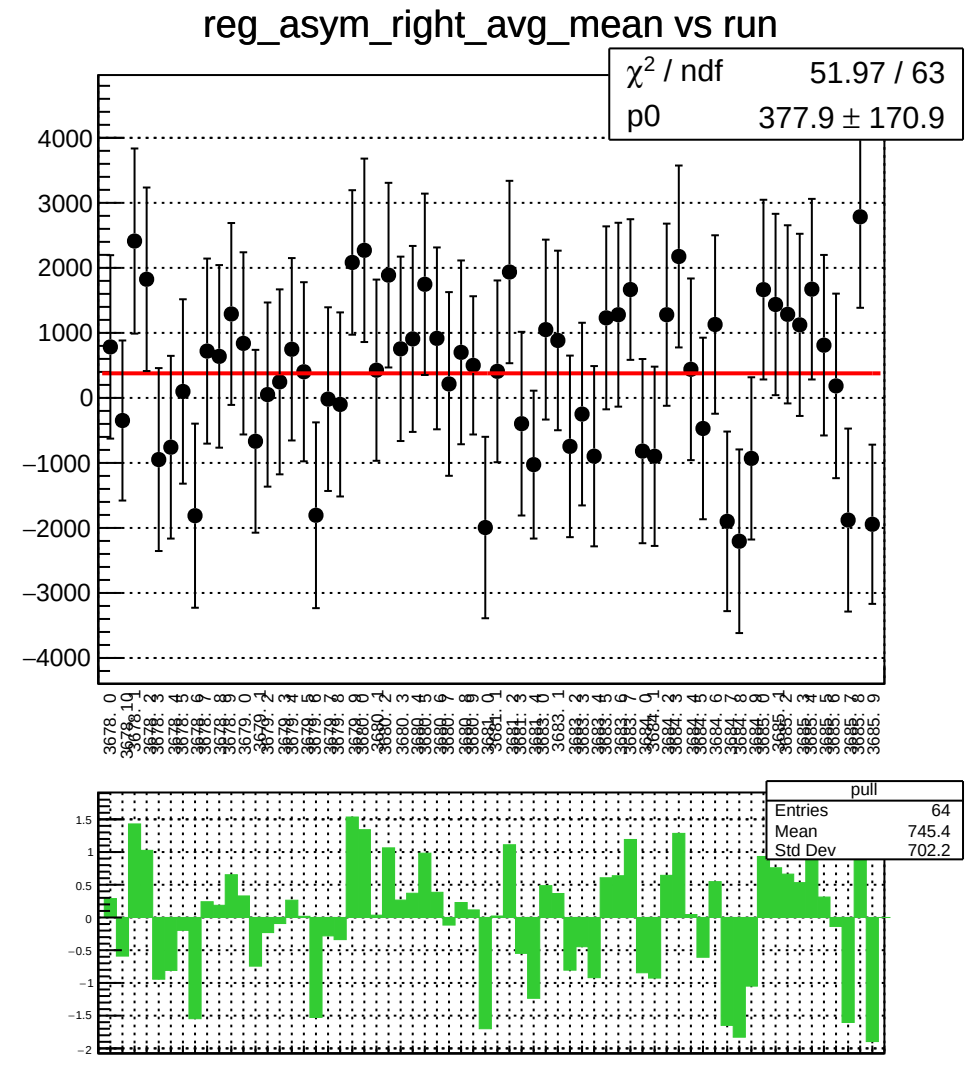

pull1D
Entries 64
Mean 0.0001475
Std Dev 0.9281

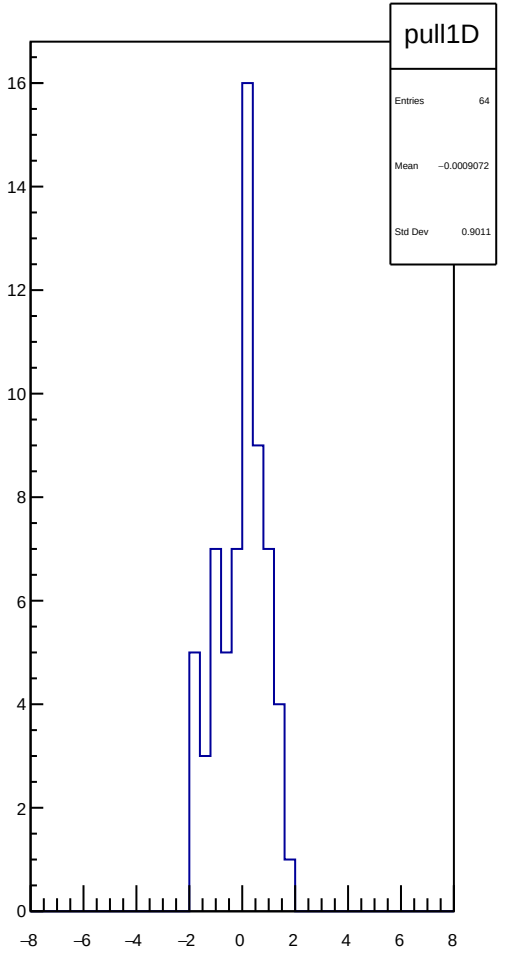

asym_left_dd_correction_rms vs run
χ² / ndf 1.115e+04 / 63
p0 24.89 ± 0.02271
55
50
45
40
35
30
25

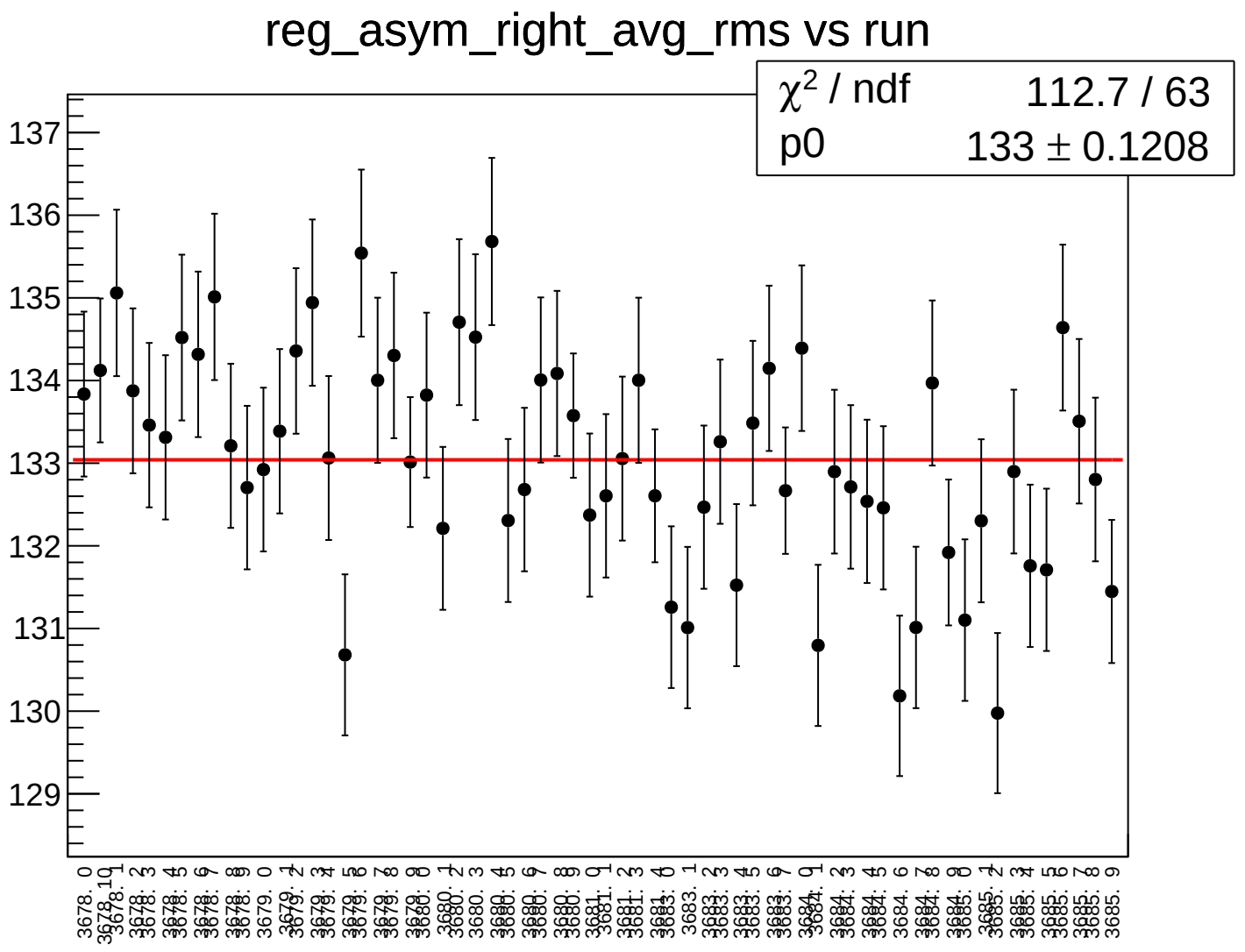

asym_left_dd_mean vs run
$\chi^2$ / ndf 57.31 / 63
p0 −7.666 ± 43.21
1000
500
0
−500
−1000
pull
Entries 64
Mean 170.3
Std Dev 137.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

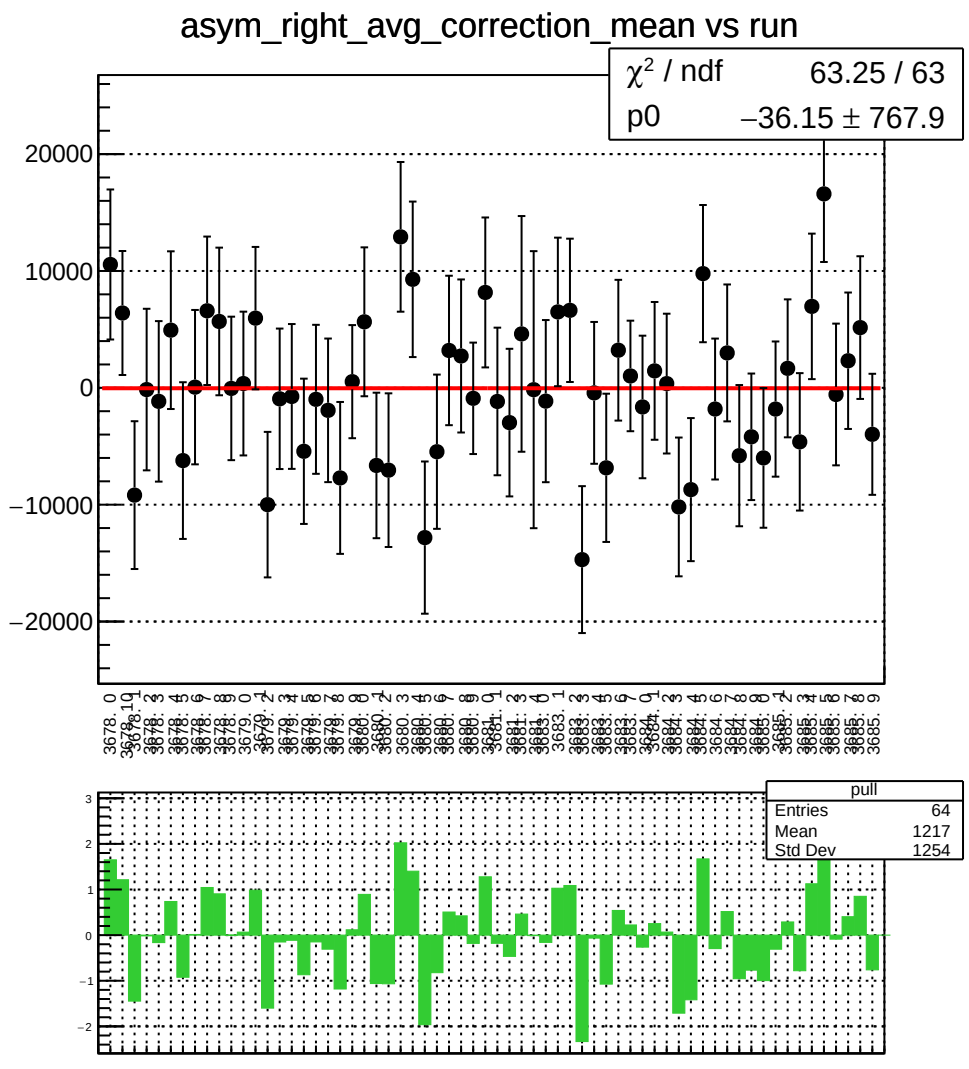

pull1D
Entries 64
Mean −0.00407
Std Dev 0.9463
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

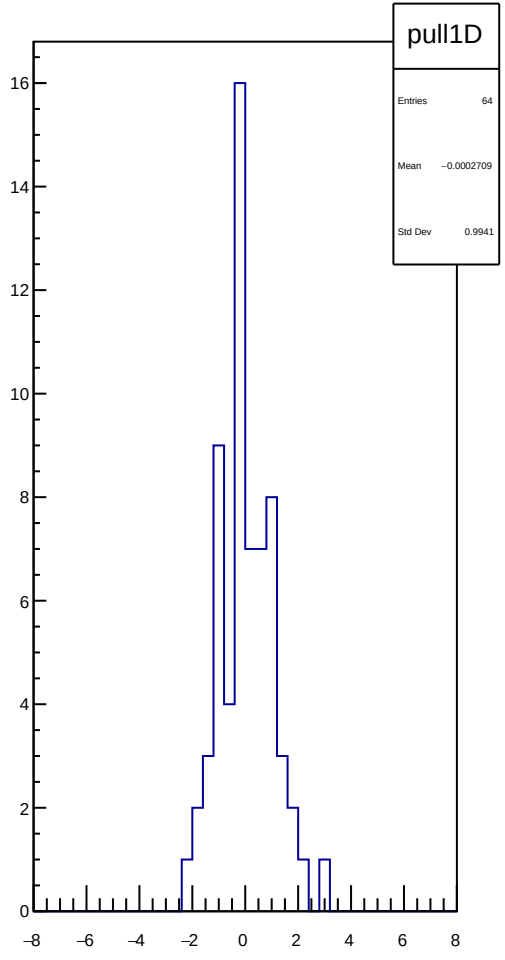

asym_left_dd_rms vs run
$\chi^2$ / ndf 6228 / 63
p0 33.56 ± 0.03055
60
55
50
45
40
35
30

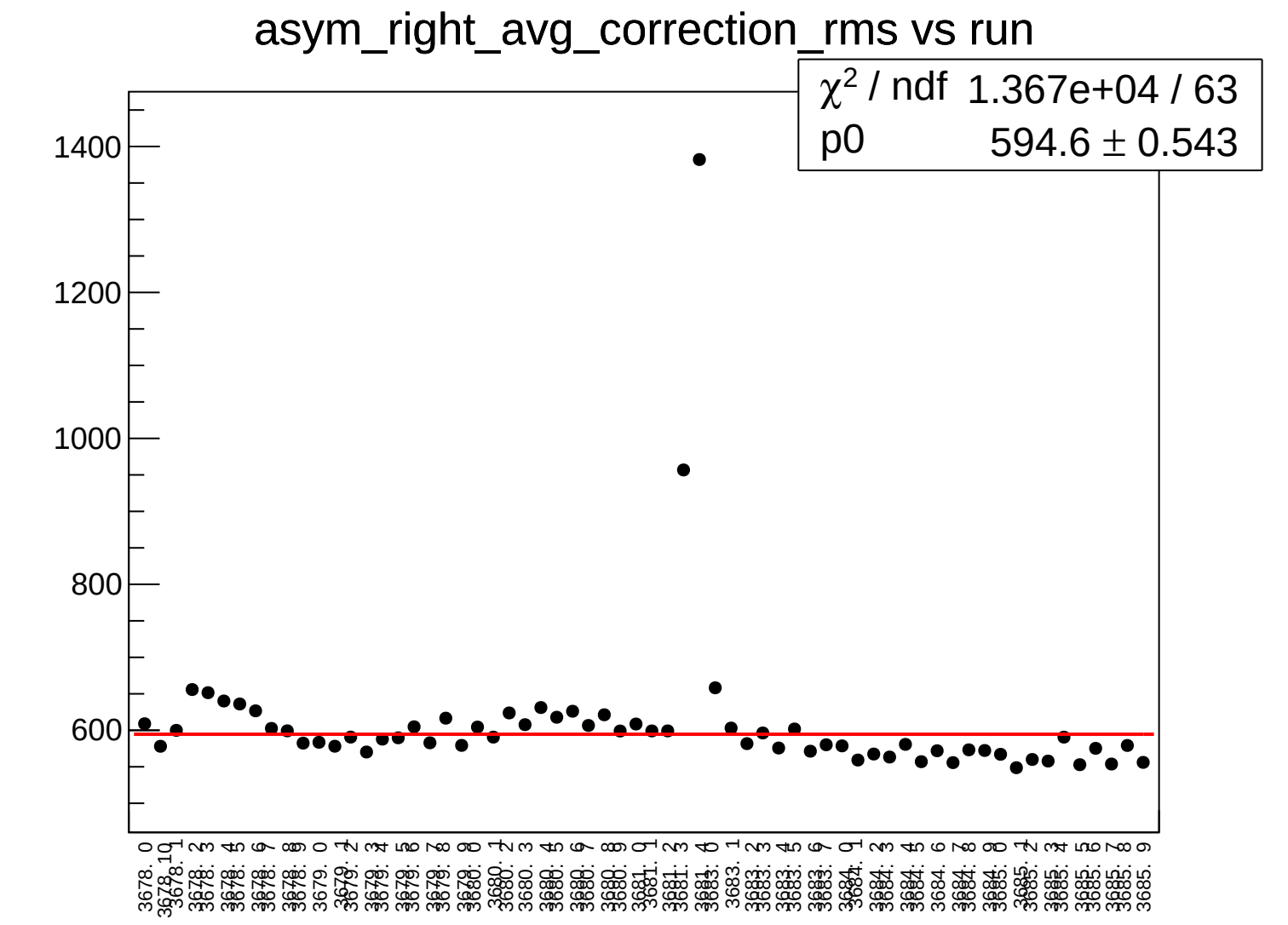

reg_asym_right_avg_mean vs run
χ² / ndf 51.97 / 63
p0 377.9 ± 170.9
pull
Entries 64
Mean 745.4
Std Dev 702.2

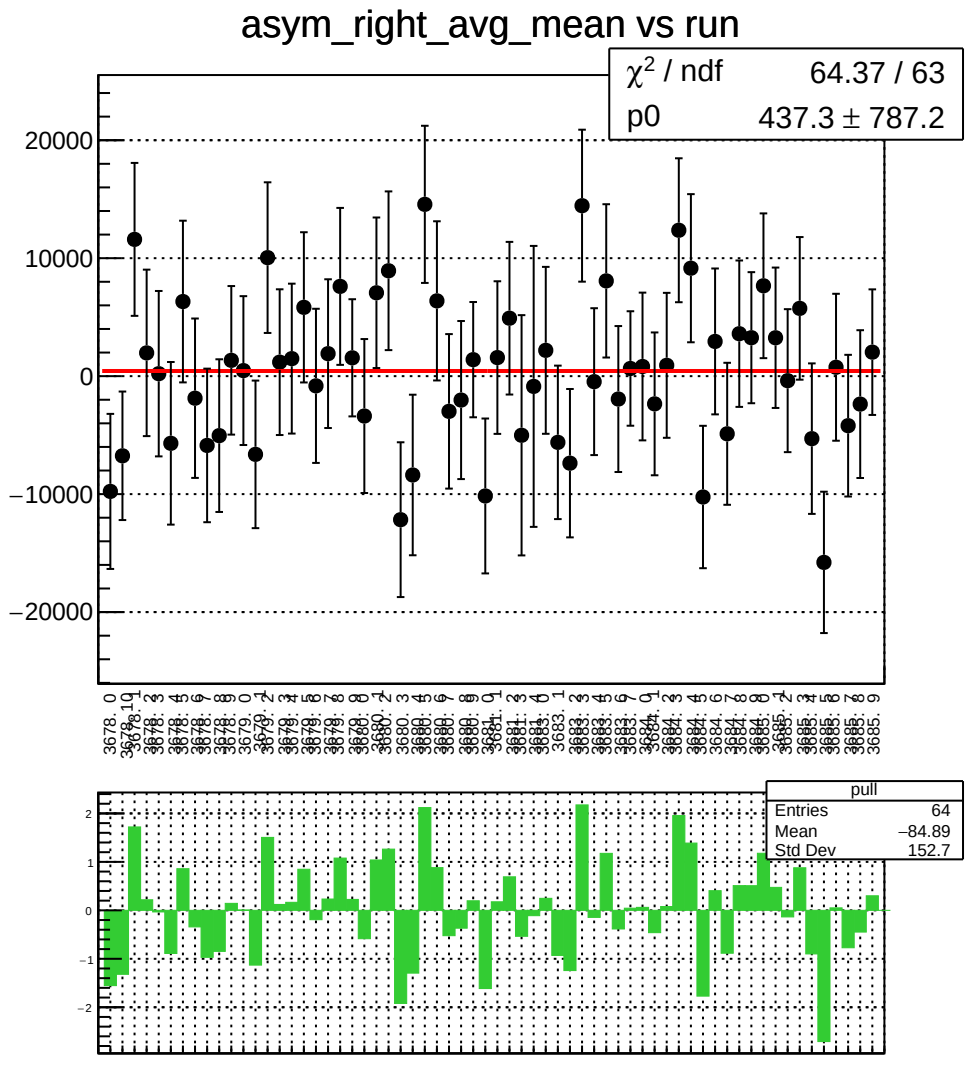

pull1D
Entries 64
Mean −0.0009072
Std Dev 0.9011

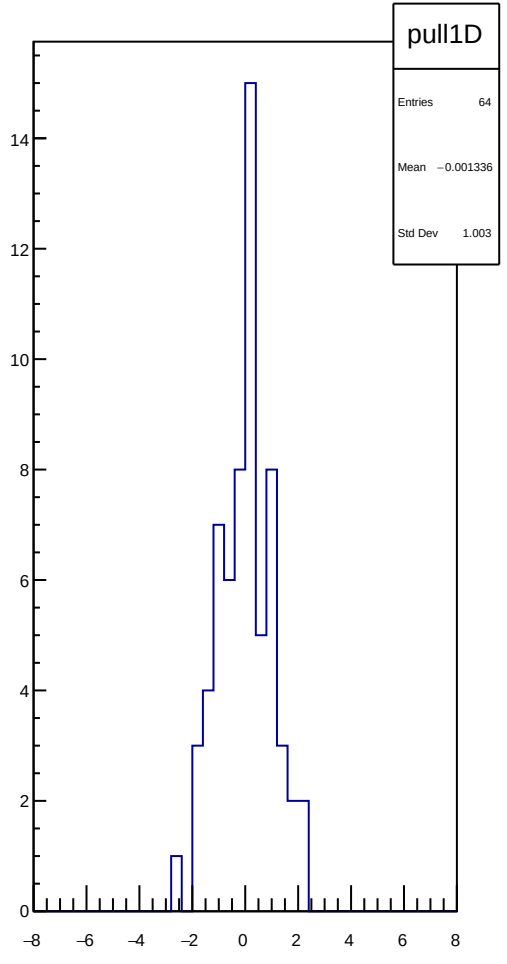

reg_asym_right_avg_rms vs run
$\chi^2$ / ndf 112.7 / 63
p0 133 ± 0.1208
137
136
135
134
133
132
131
130
129

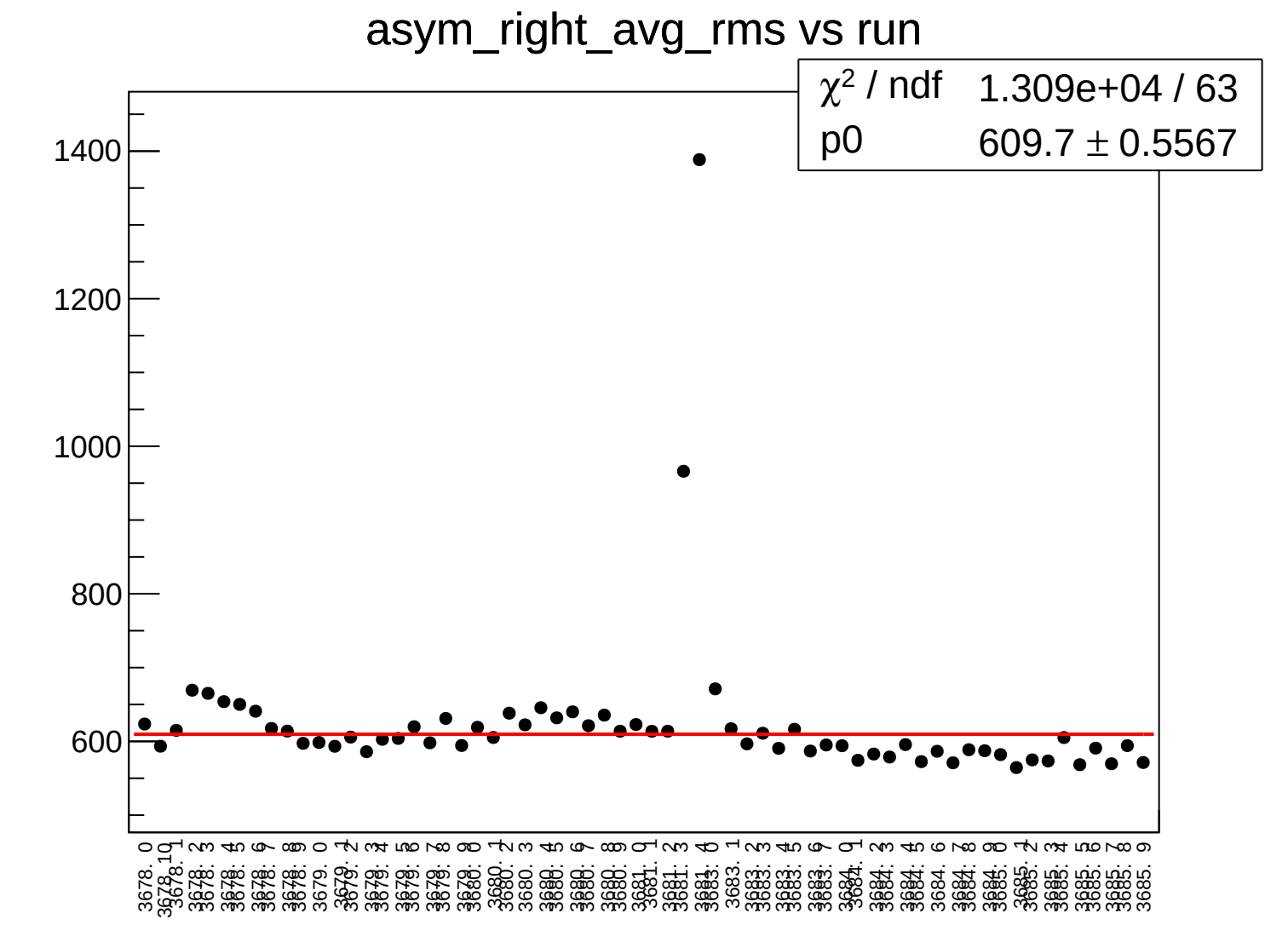

asym_right_avg_correction_mean vs run
χ² / ndf 63.25 / 63
p0 −36.15 ± 767.9
20000
10000
0
−10000
−20000
pull
Entries 64
Mean 1217
Std Dev 1254
3
2
1
0
−1
−2

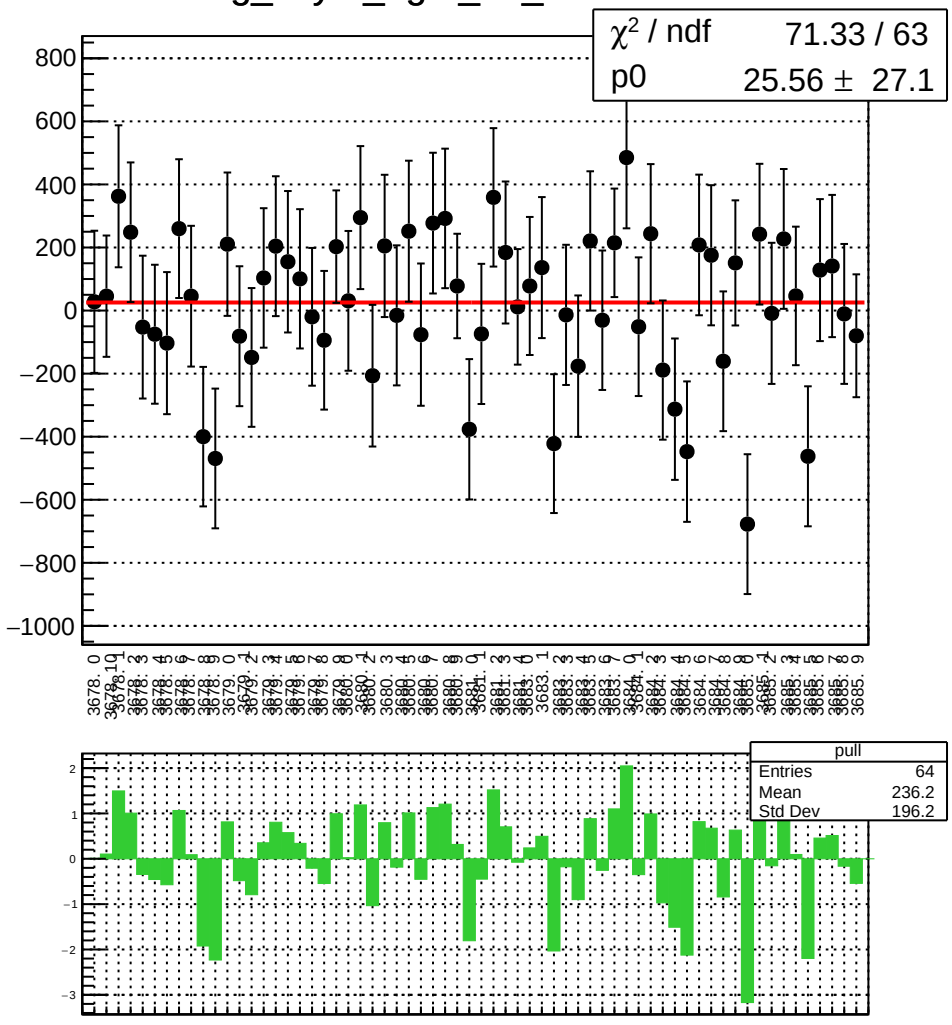

pull1D
Entries 64
Mean −0.0002709
Std Dev 0.9941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

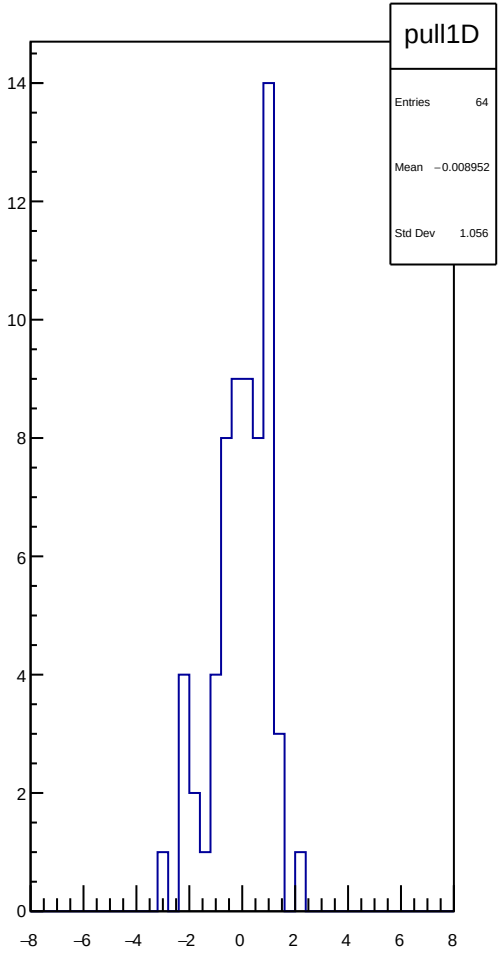

asym_right_avg_correction_rms vs run
χ² / ndf 1.367e+04 / 63
p0 594.6 ± 0.543
1400
1200
1000
800
600

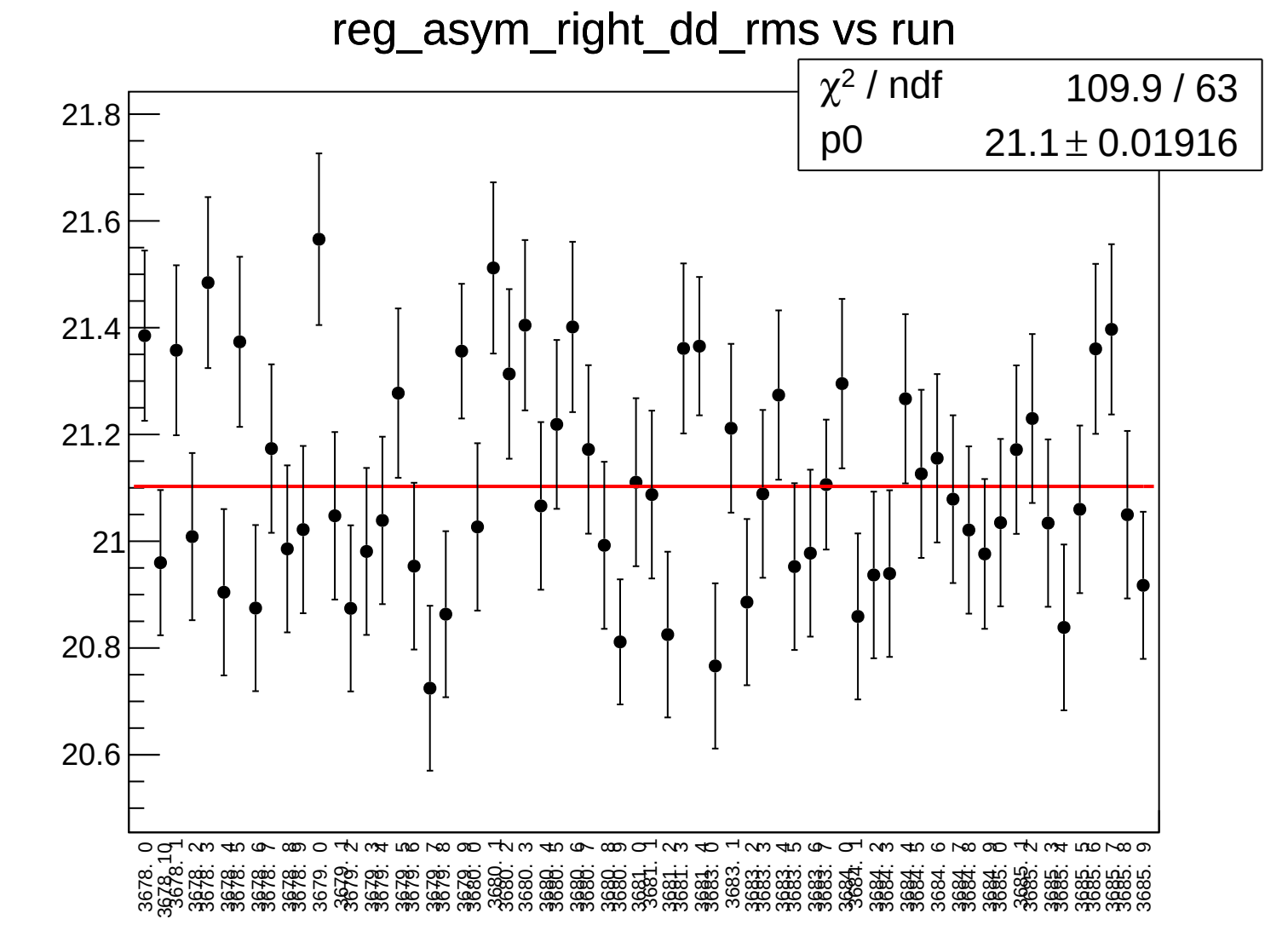

asym_right_avg_mean vs run
χ² / ndf 64.37 / 63
p0 437.3 ± 787.2
20000
10000
0
−10000
−20000
pull
Entries 64
Mean −84.89
Std Dev 152.7
2
1
0
−1
−2

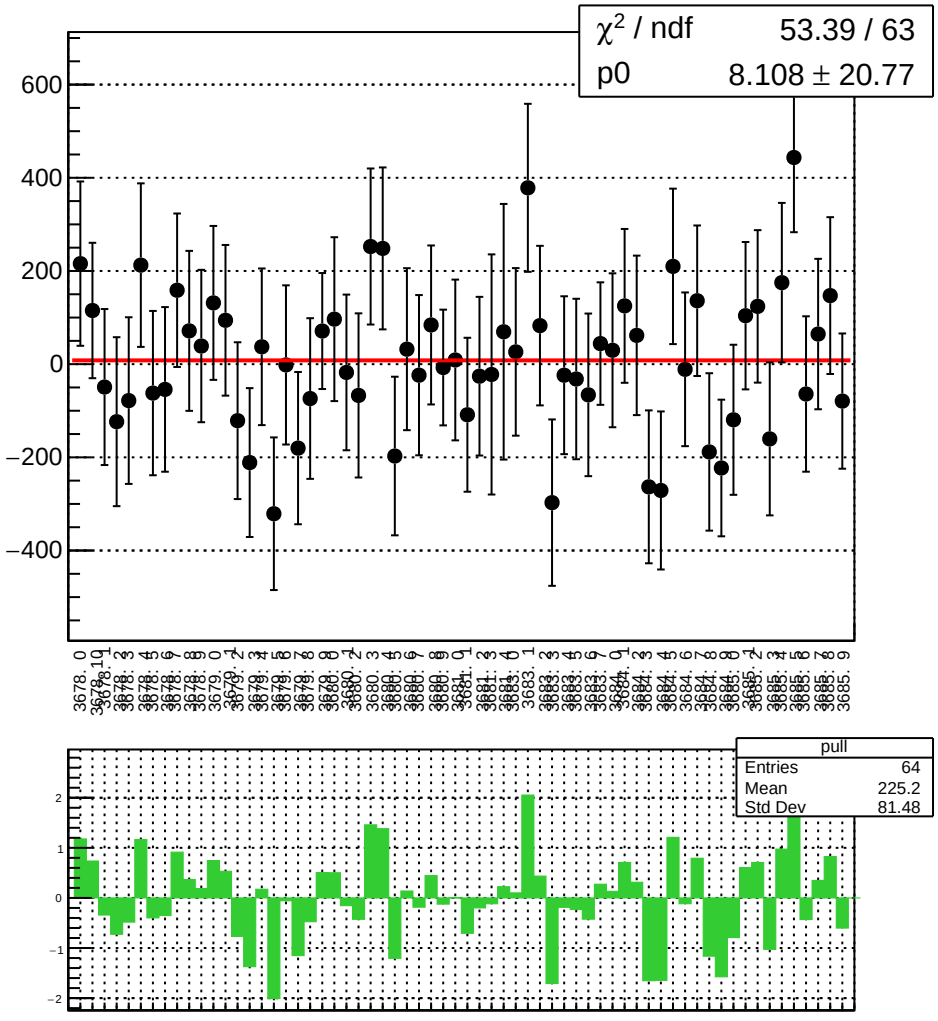

pull1D
Entries 64
Mean −0.001336
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

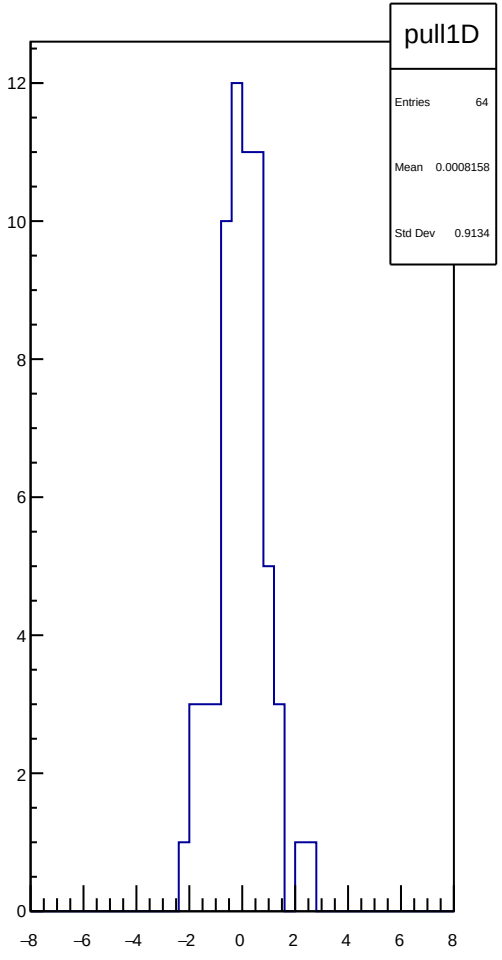

asym_right_avg_rms vs run
$\chi^2$ / ndf 1.309e+04 / 63
p0 609.7 ± 0.5567
1400
1200
1000
800
600

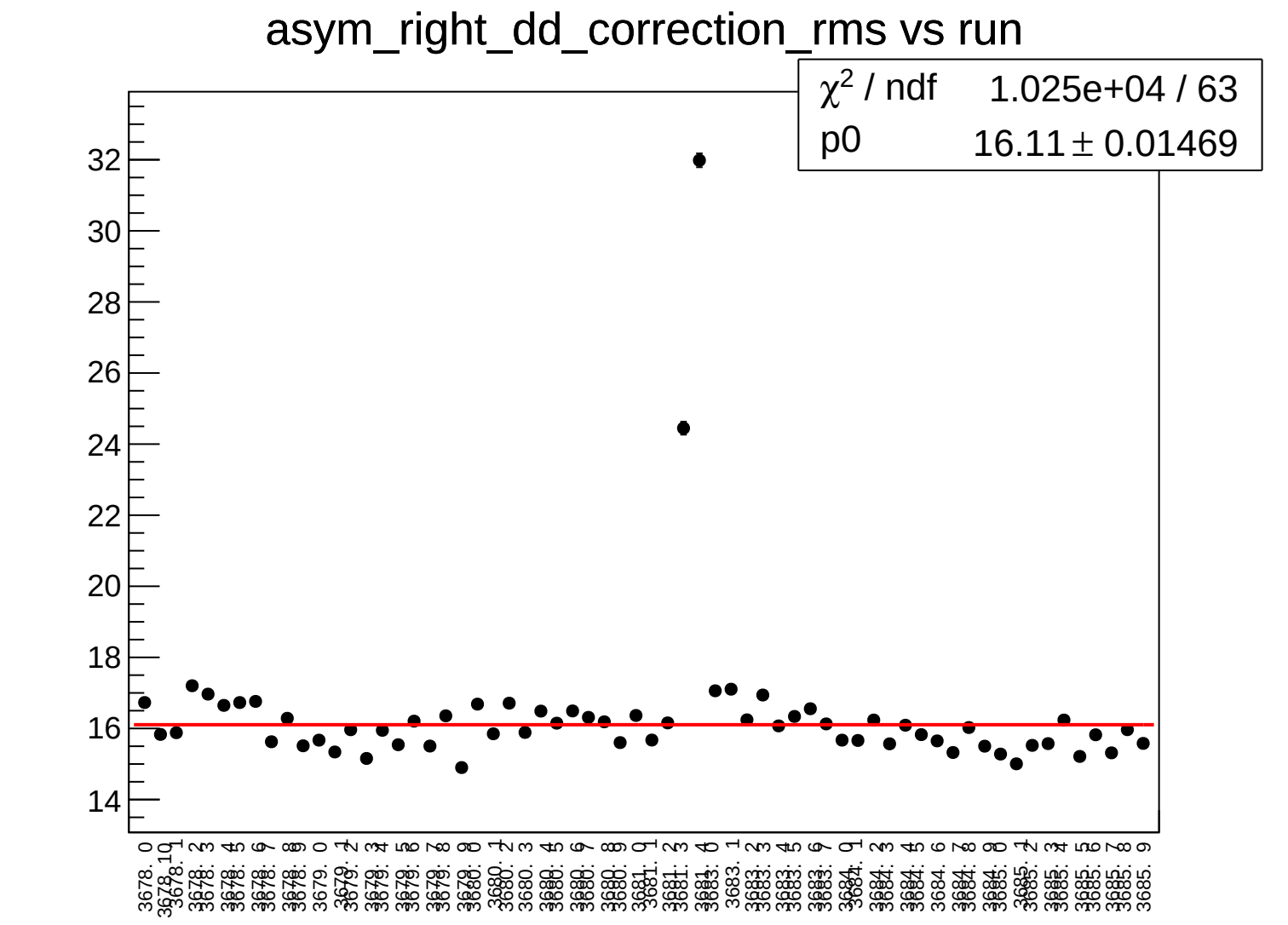

reg_asym_right_dd_mean vs run
χ² / ndf 71.33 / 63
p0 25.56 ± 27.1
pull
Entries 64
Mean 236.2
Std Dev 196.2

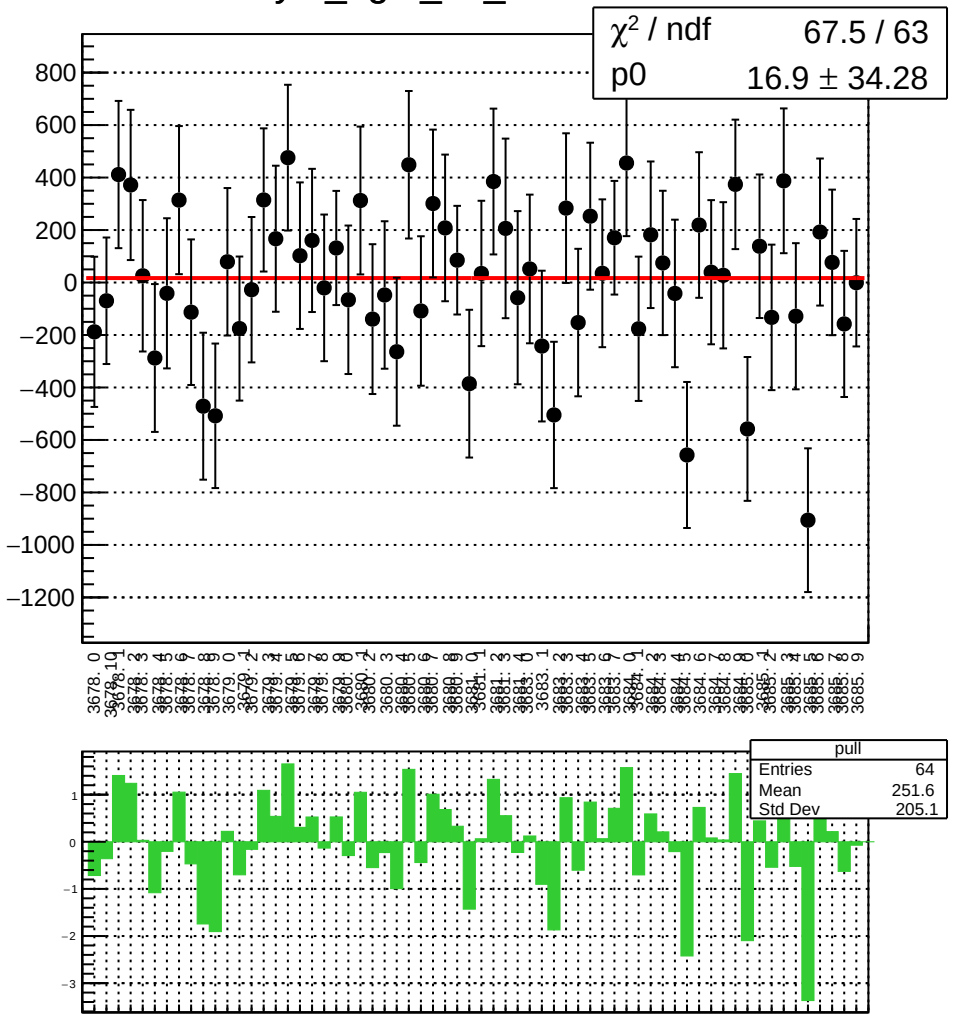

pull1D
Entries 64
Mean −0.008952
Std Dev 1.056

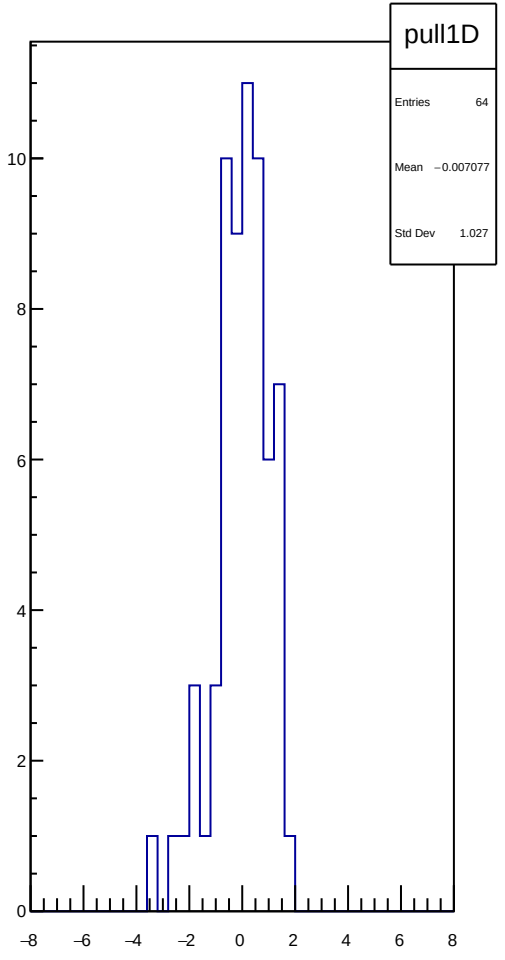

reg_asym_right_dd_rms vs run
χ² / ndf 109.9 / 63
p0 21.1 ± 0.01916
21.8
21.6
21.4
21.2
21
20.8
20.6

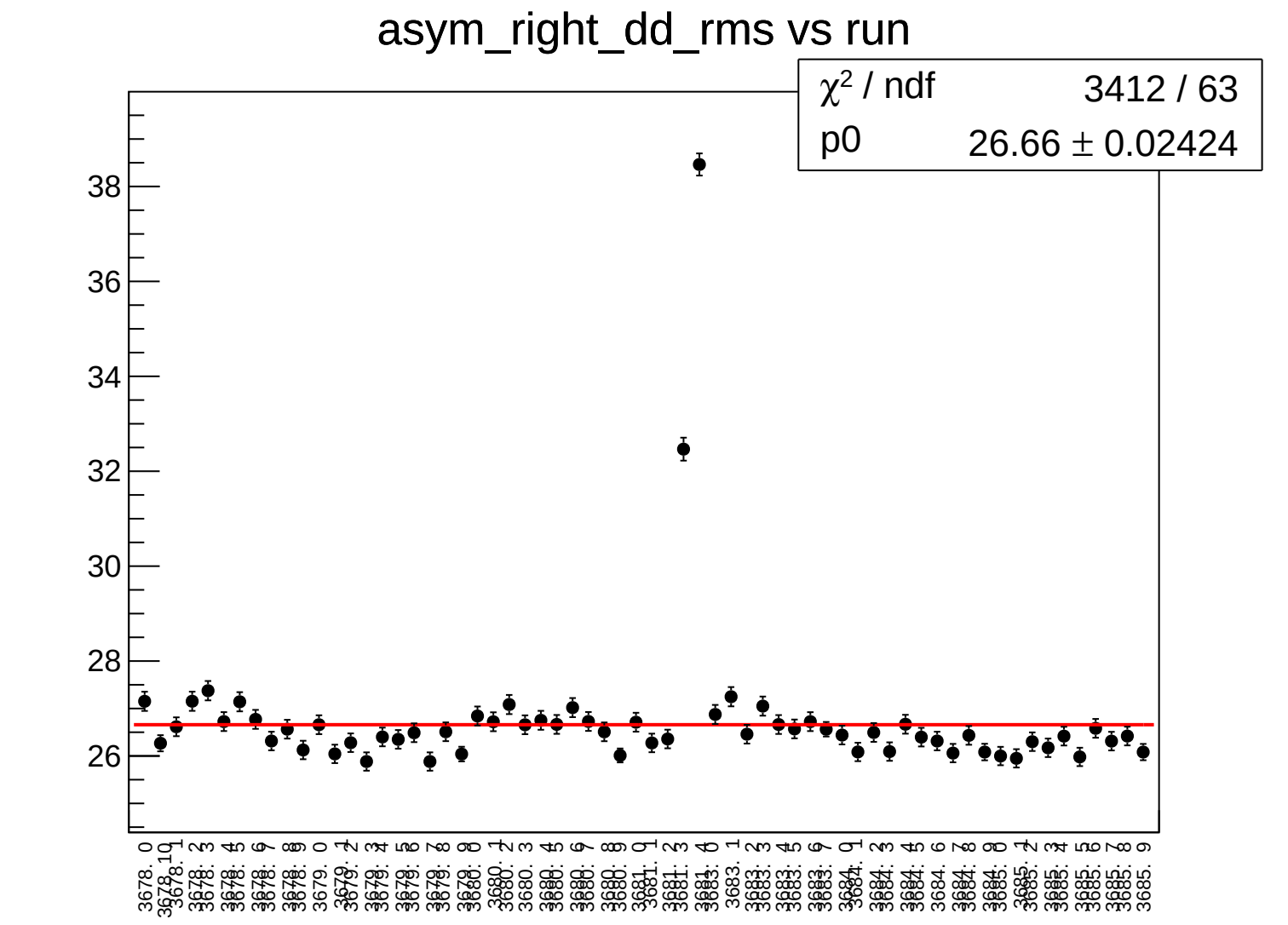

asym_right_dd_correction_mean vs run
χ² / ndf 53.39 / 63
p0 8.108 ± 20.77
pull
Entries 64
Mean 225.2
Std Dev 81.48

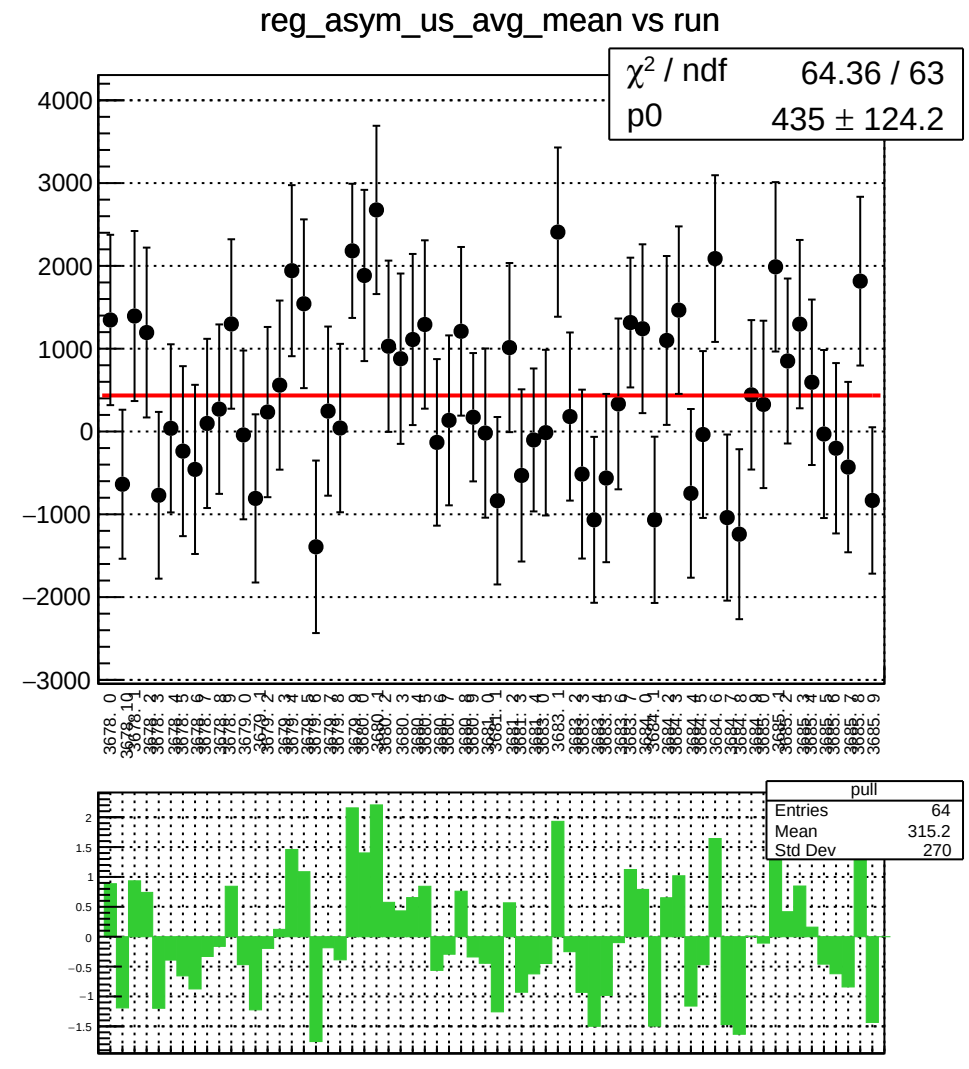

pull1D
Entries 64
Mean 0.0008158
Std Dev 0.9134

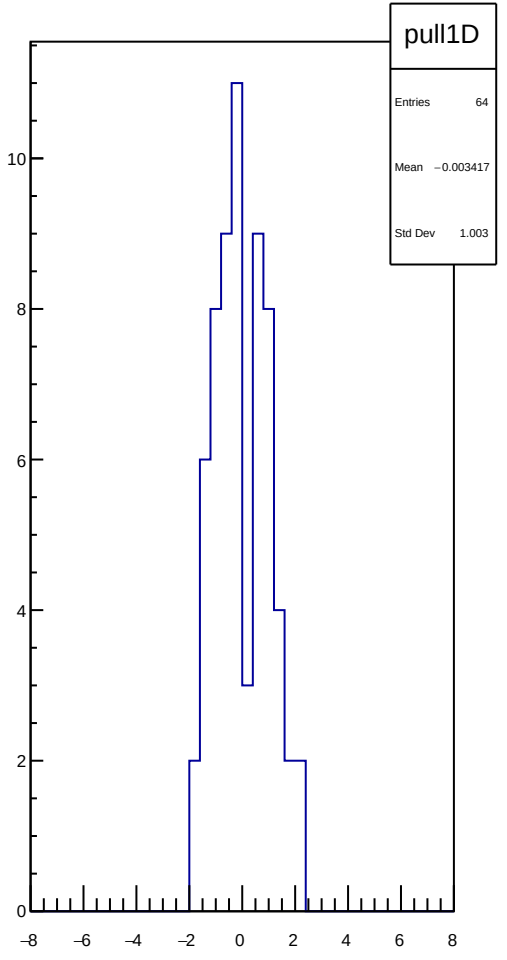

asym_right_dd_correction_rms vs run
χ² / ndf 1.025e+04 / 63
p0 16.11 ± 0.01469
32
30
28
26
24
22
20
18
16
14

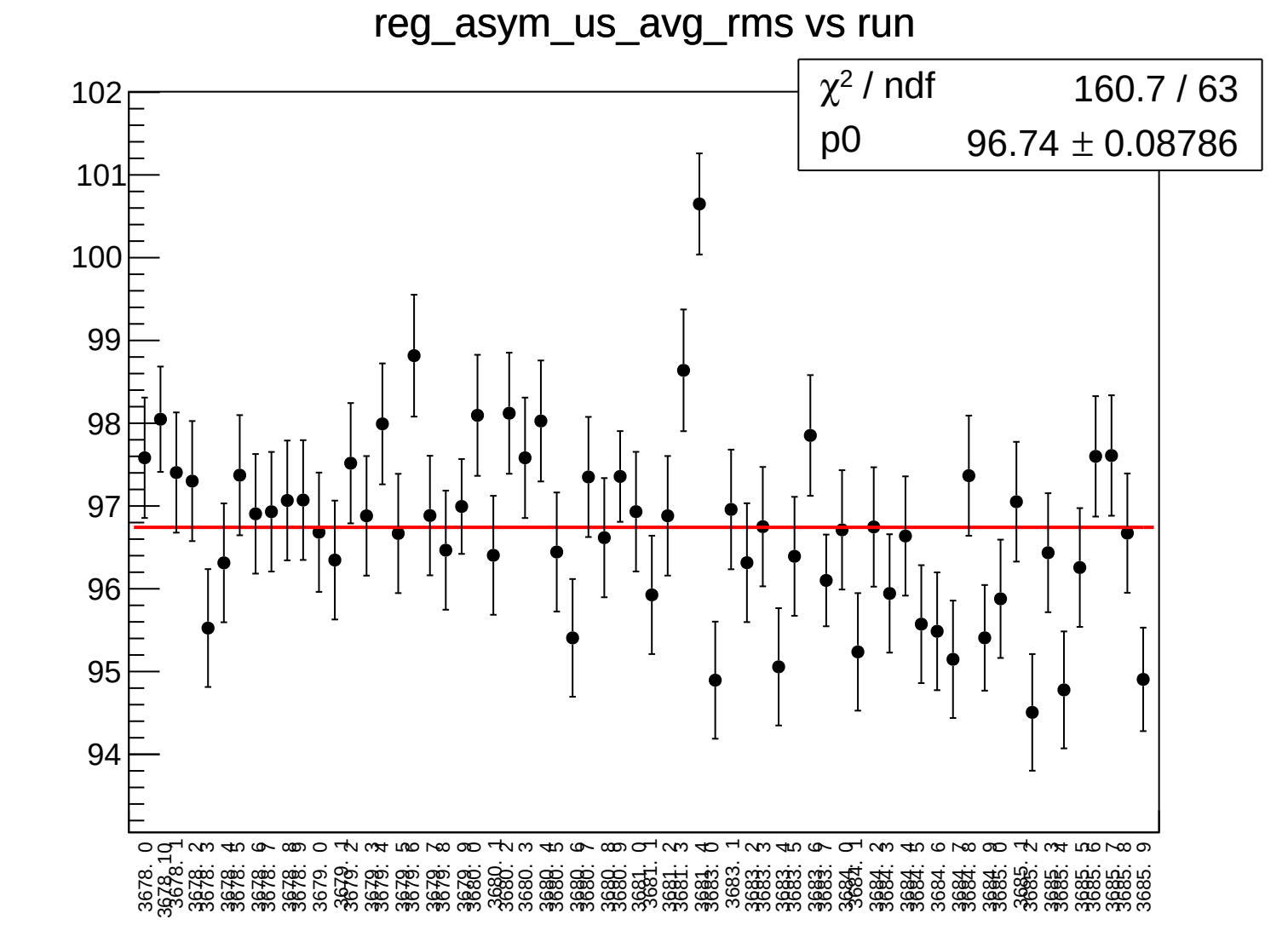

asym_right_dd_mean vs run
$\chi^2$ / ndf 67.5 / 63
p0 16.9 ± 34.28
pull
Entries 64
Mean 251.6
Std Dev 205.1

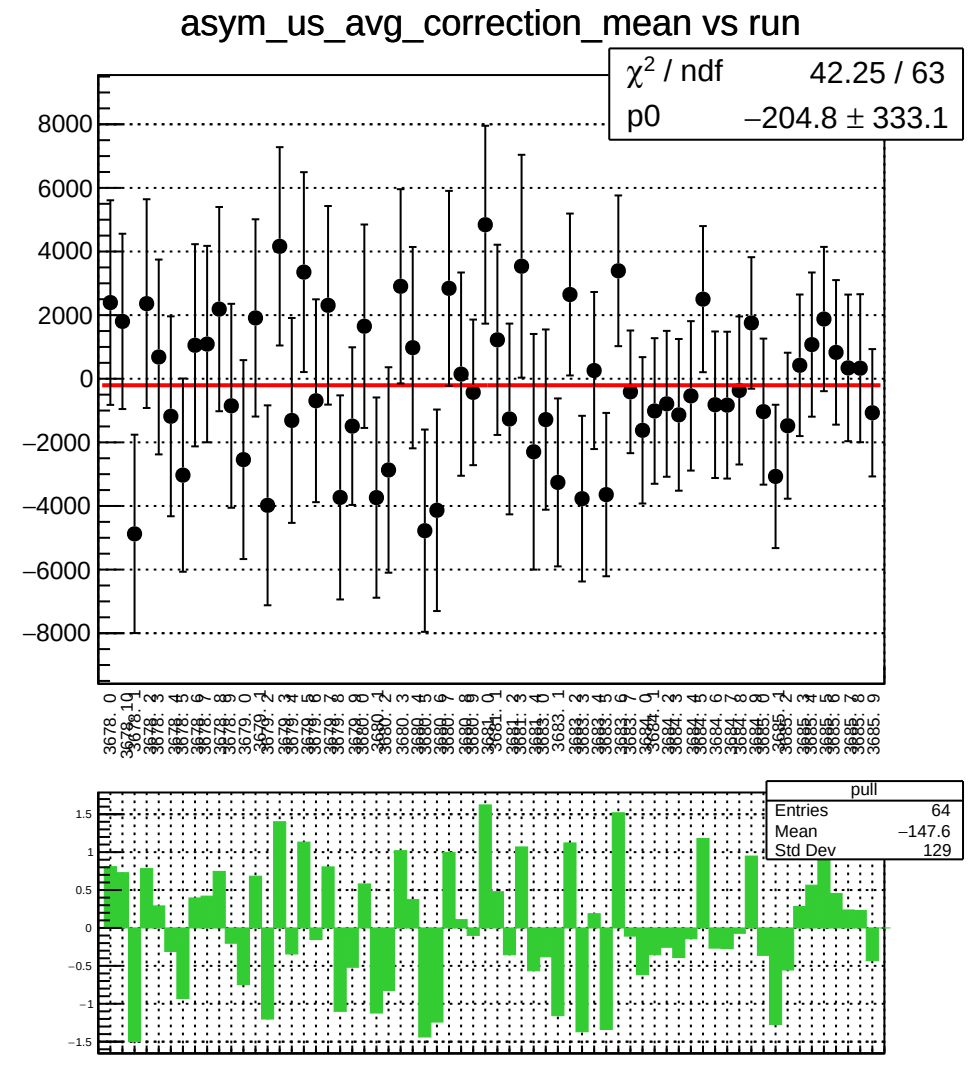

pull1D
Entries 64
Mean −0.007077
Std Dev 1.027

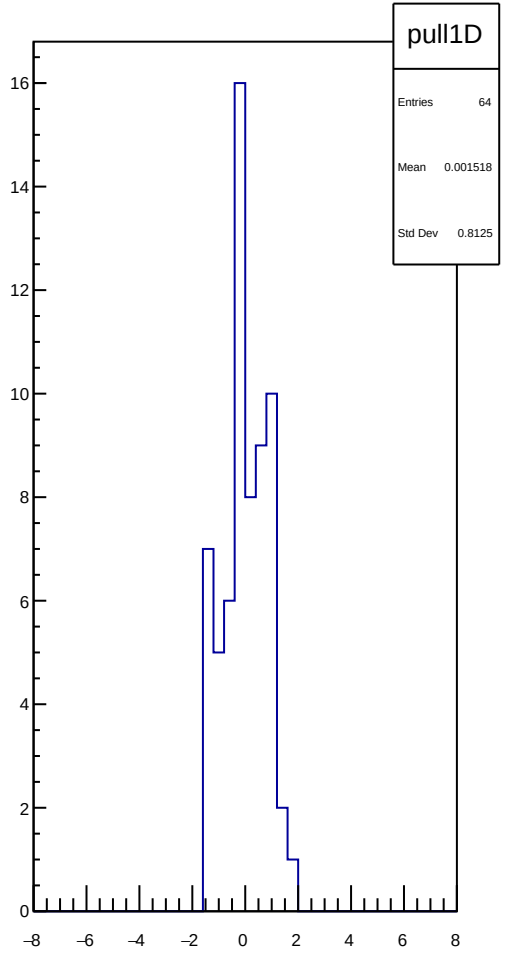

asym_right_dd_rms vs run
$\chi^2$ / ndf 3412 / 63
p0 26.66 ± 0.02424
38
36
34
32
30
28
26

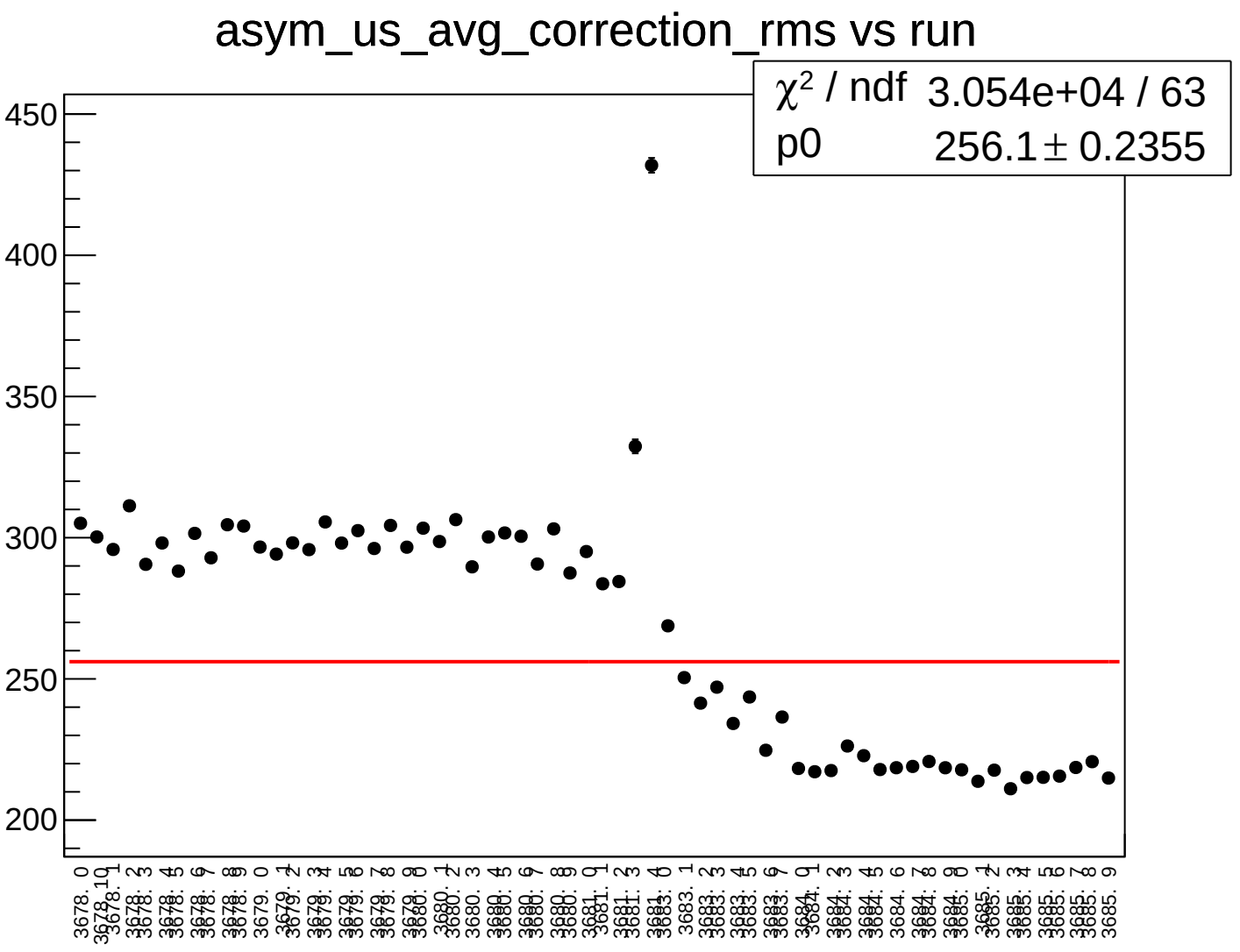

reg_asym_us_avg_mean vs run
χ² / ndf 64.36 / 63
p0 435 ± 124.2
pull
Entries 64
Mean 315.2
Std Dev 270

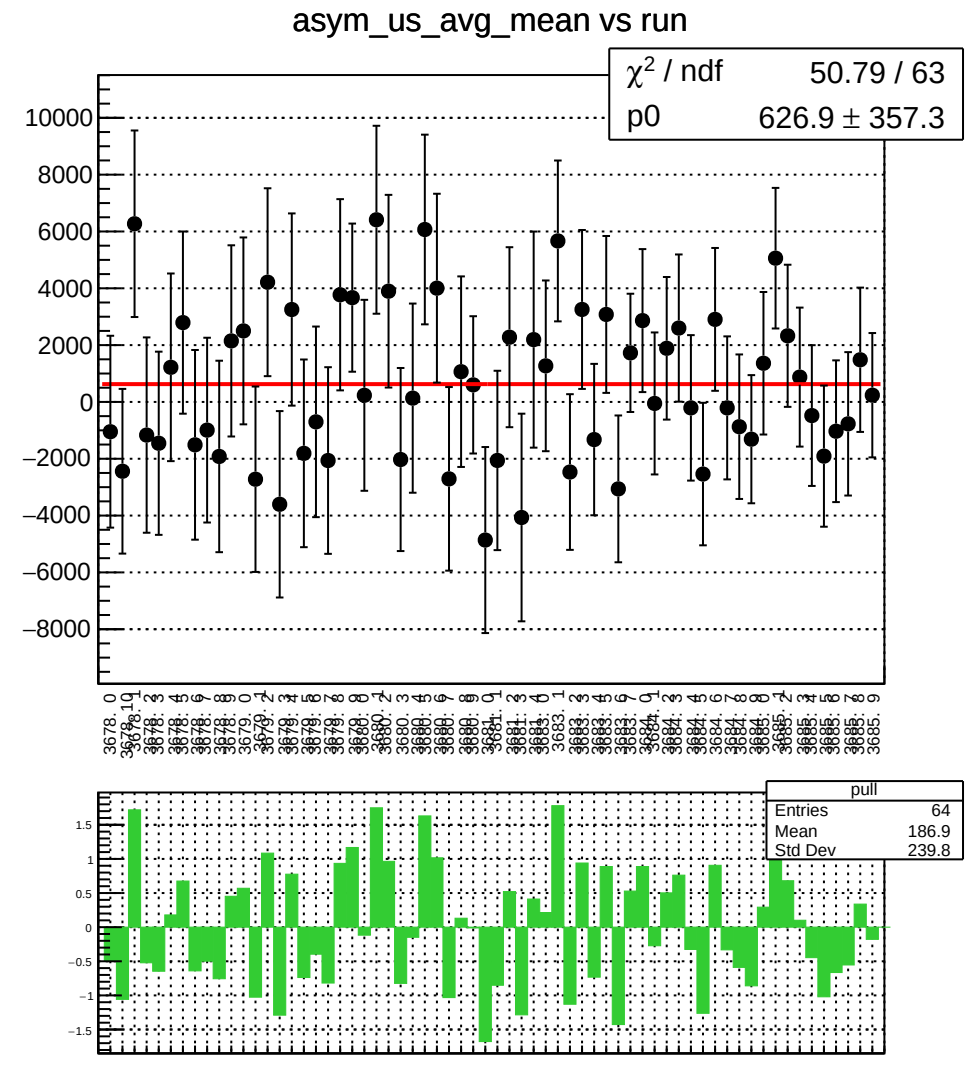

pull1D
Entries 64
Mean −0.003417
Std Dev 1.003

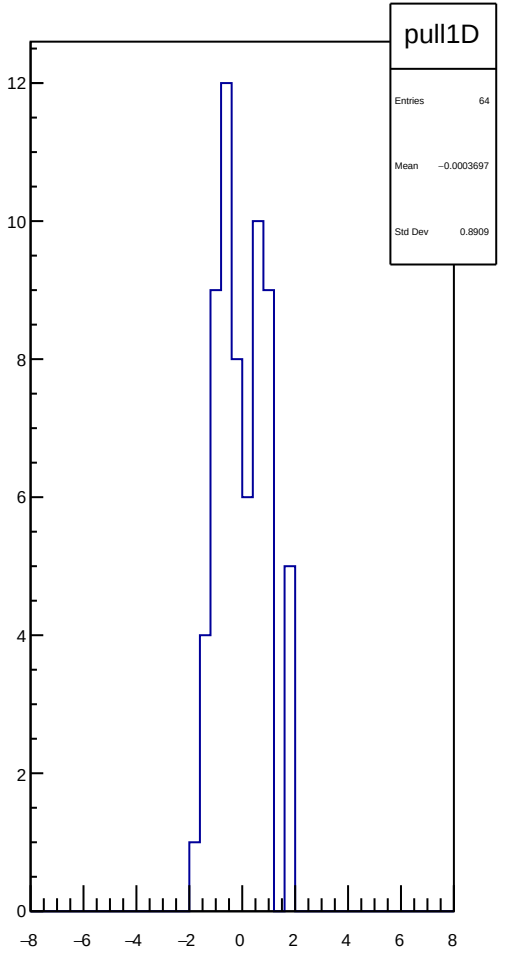

reg_asym_us_avg_rms vs run
χ² / ndf 160.7 / 63
p0 96.74 ± 0.08786
102
101
100
99
98
97
96
95
94

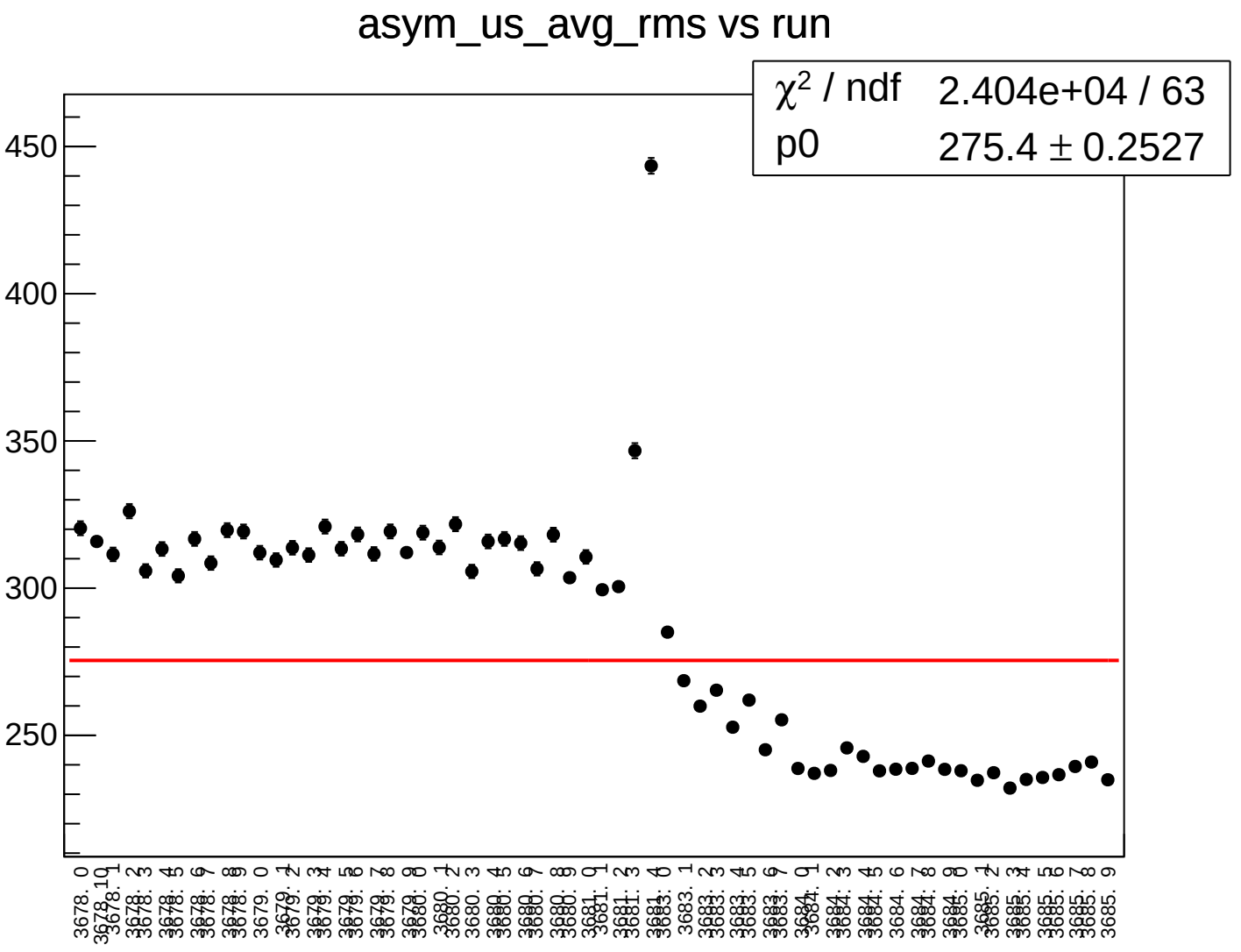

asym_us_avg_correction_mean vs run
χ² / ndf 42.25 / 63
p0 −204.8 ± 333.1
pull
Entries 64
Mean −147.6
Std Dev 129

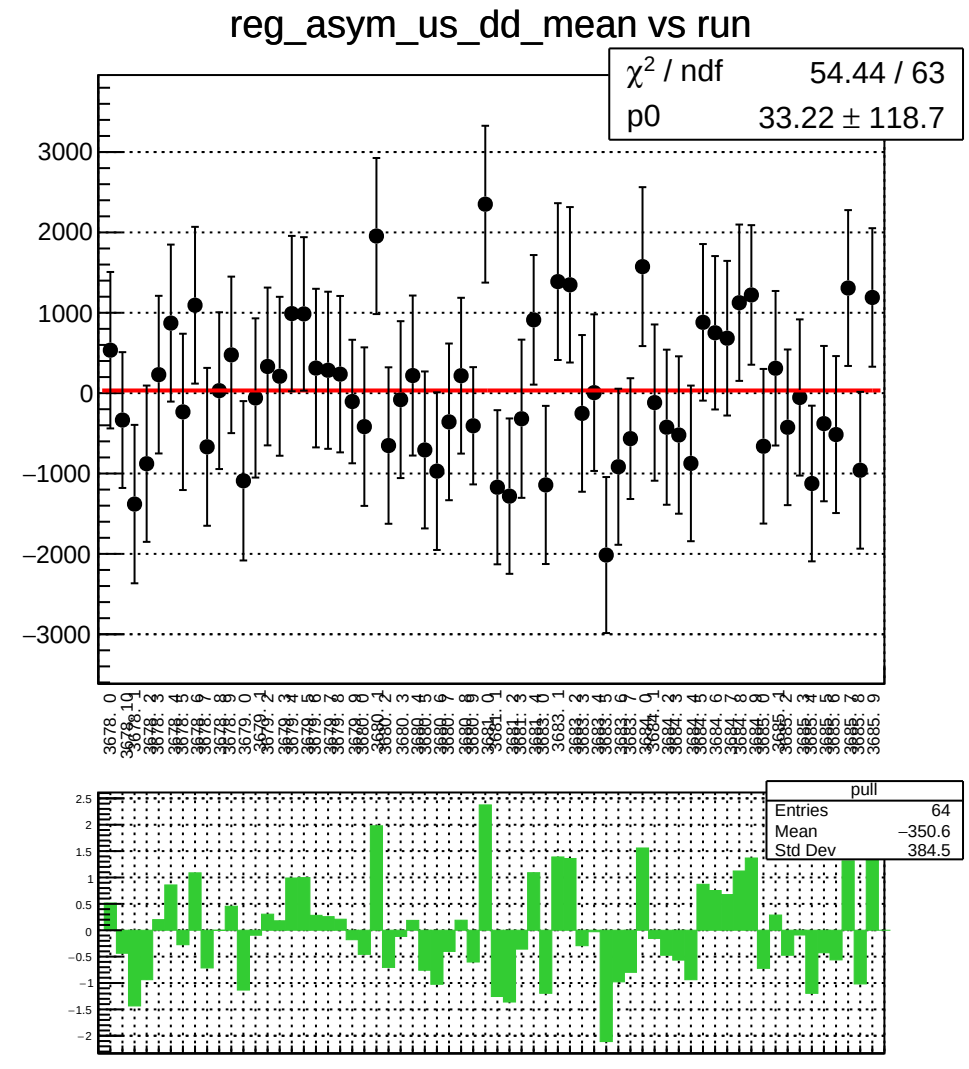

pull1D
Entries 64
Mean 0.001518
Std Dev 0.8125

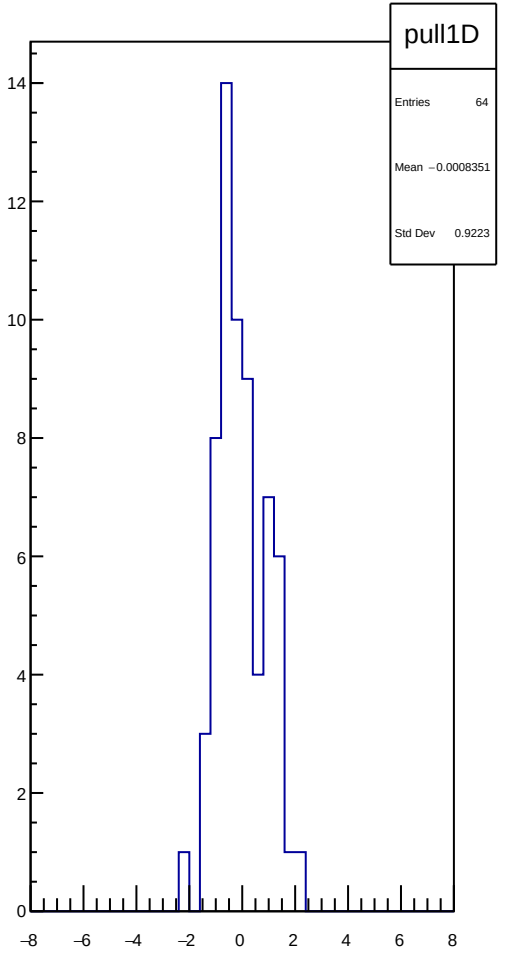

asym_us_avg_correction_rms vs run
χ² / ndf 3.054e+04 / 63
p0 256.1 ± 0.2355
450
400
350
300
250
200

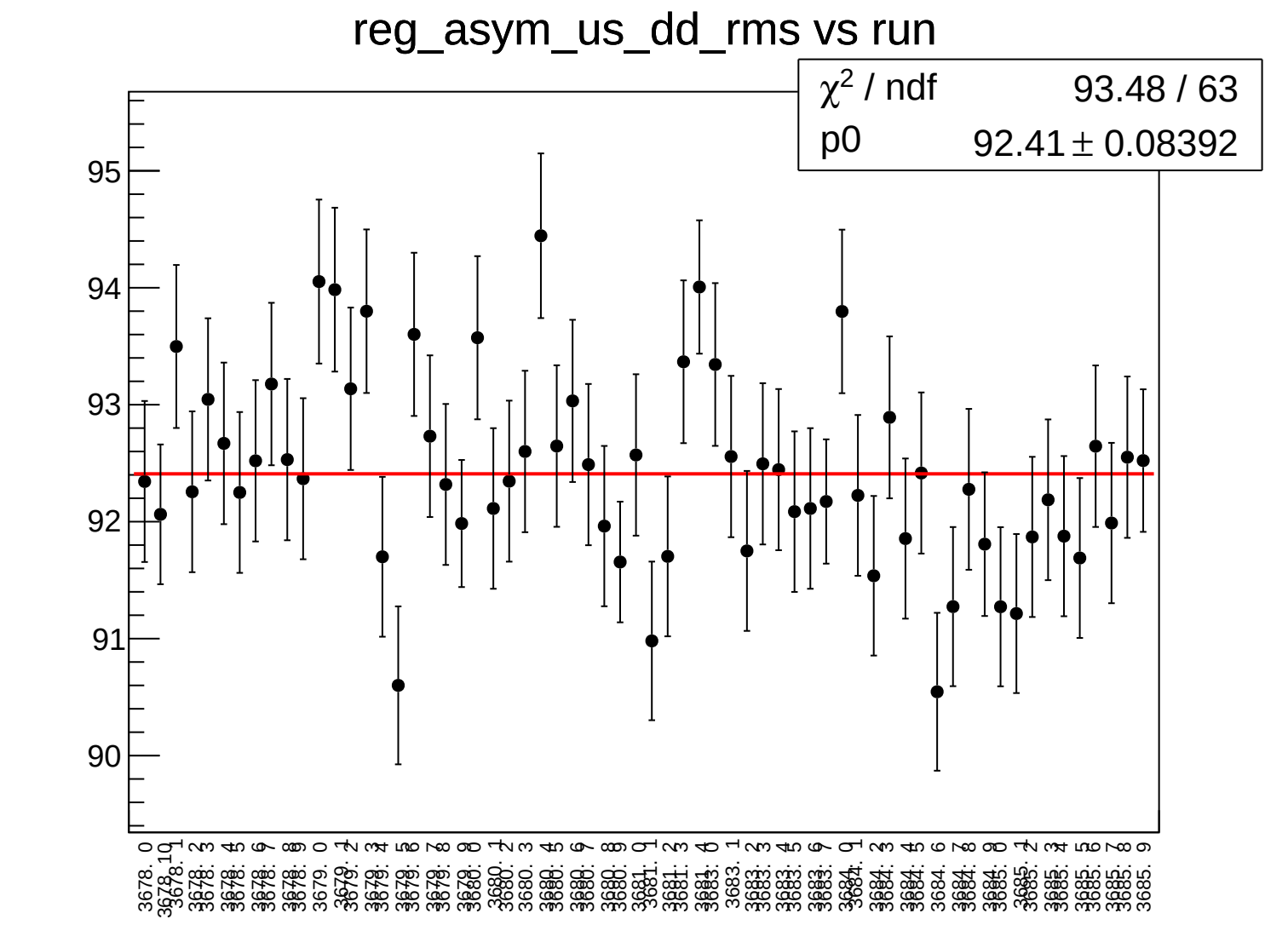

asym_us_avg_mean vs run
χ² / ndf 50.79 / 63
p0 626.9 ± 357.3
pull
Entries 64
Mean 186.9
Std Dev 239.8

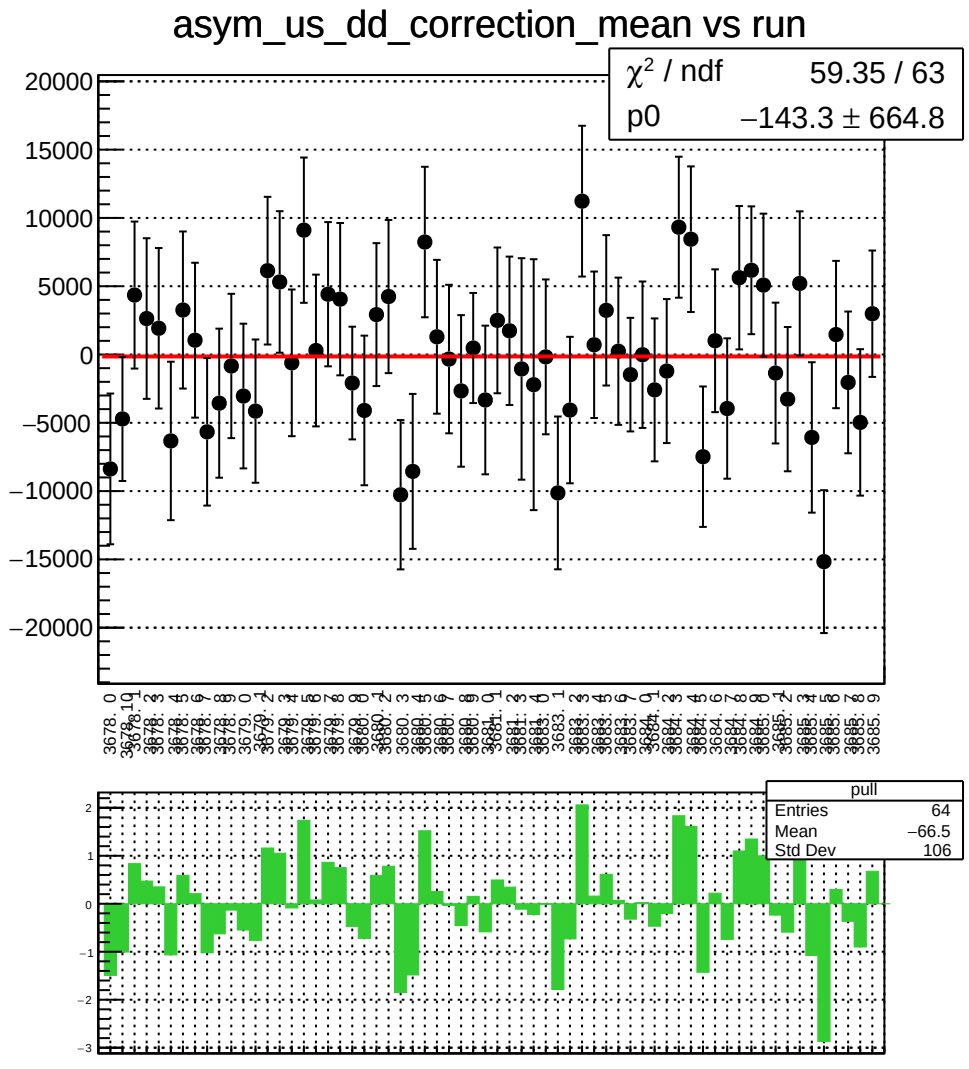

pull1D
Entries 64
Mean −0.0003697
Std Dev 0.8909

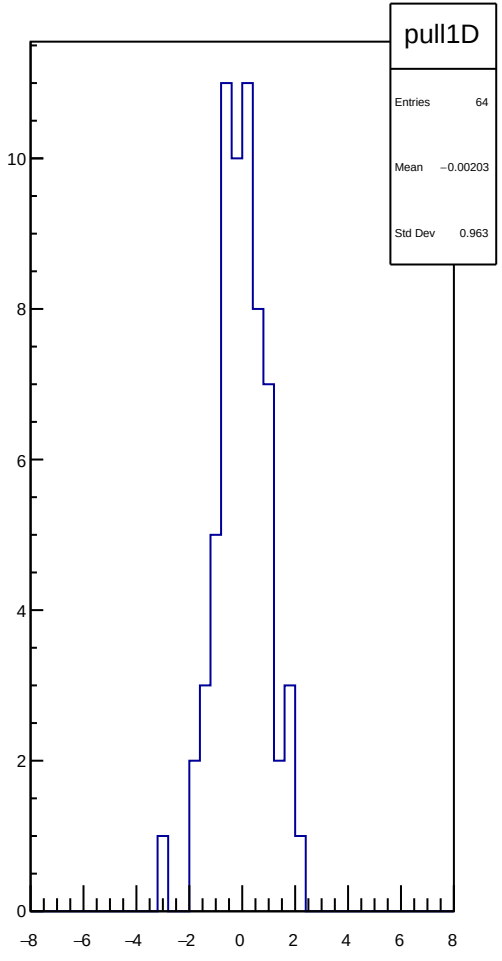

asym_us_avg_rms vs run
$\chi^2$ / ndf 2.404e+04 / 63
p0 275.4 ± 0.2527
450
400
350
300
250

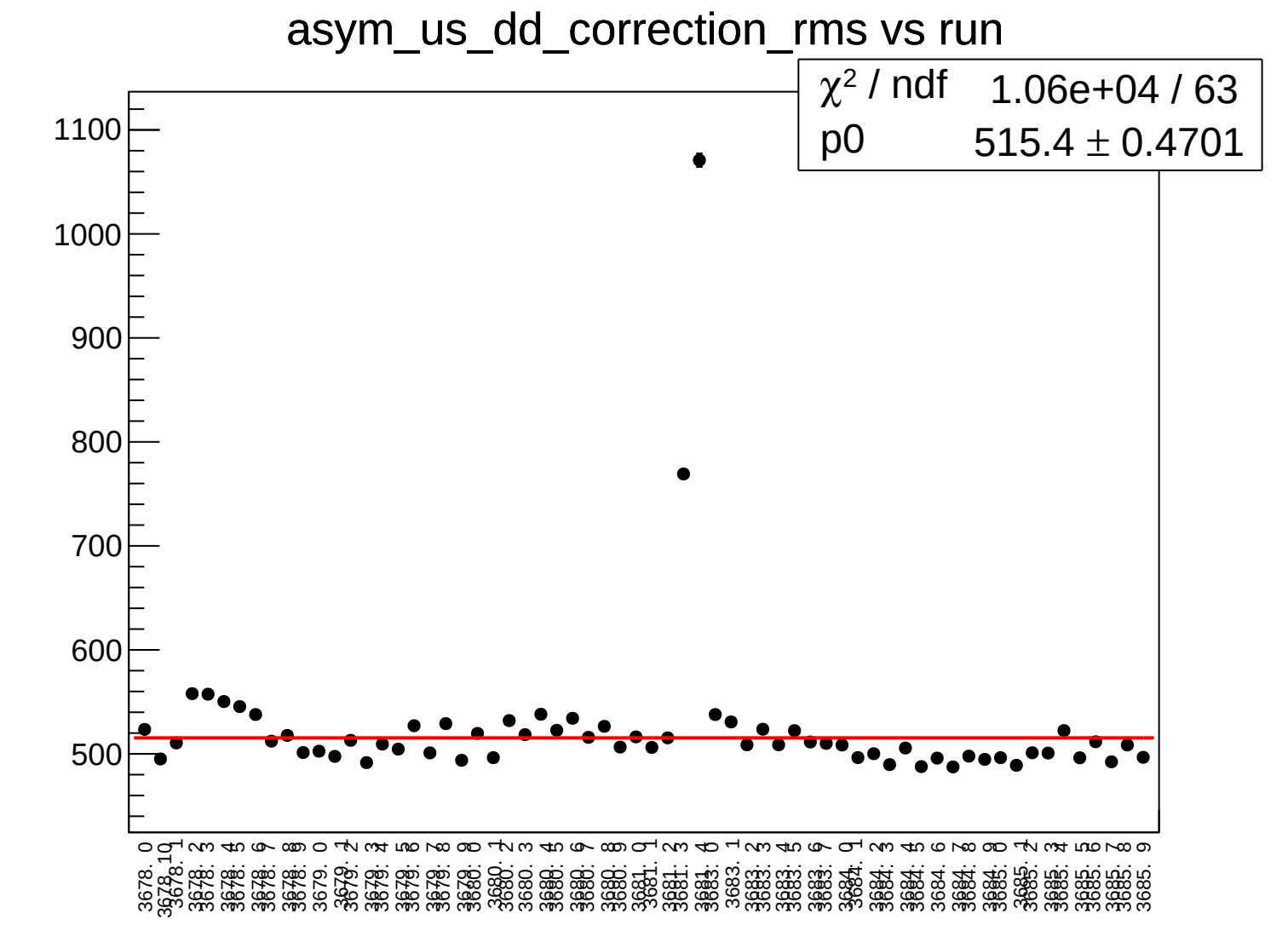

reg_asym_us_dd_mean vs run
$\chi^2$ / ndf 54.44 / 63
p0 33.22 ± 118.7
pull
Entries 64
Mean −350.6
Std Dev 384.5

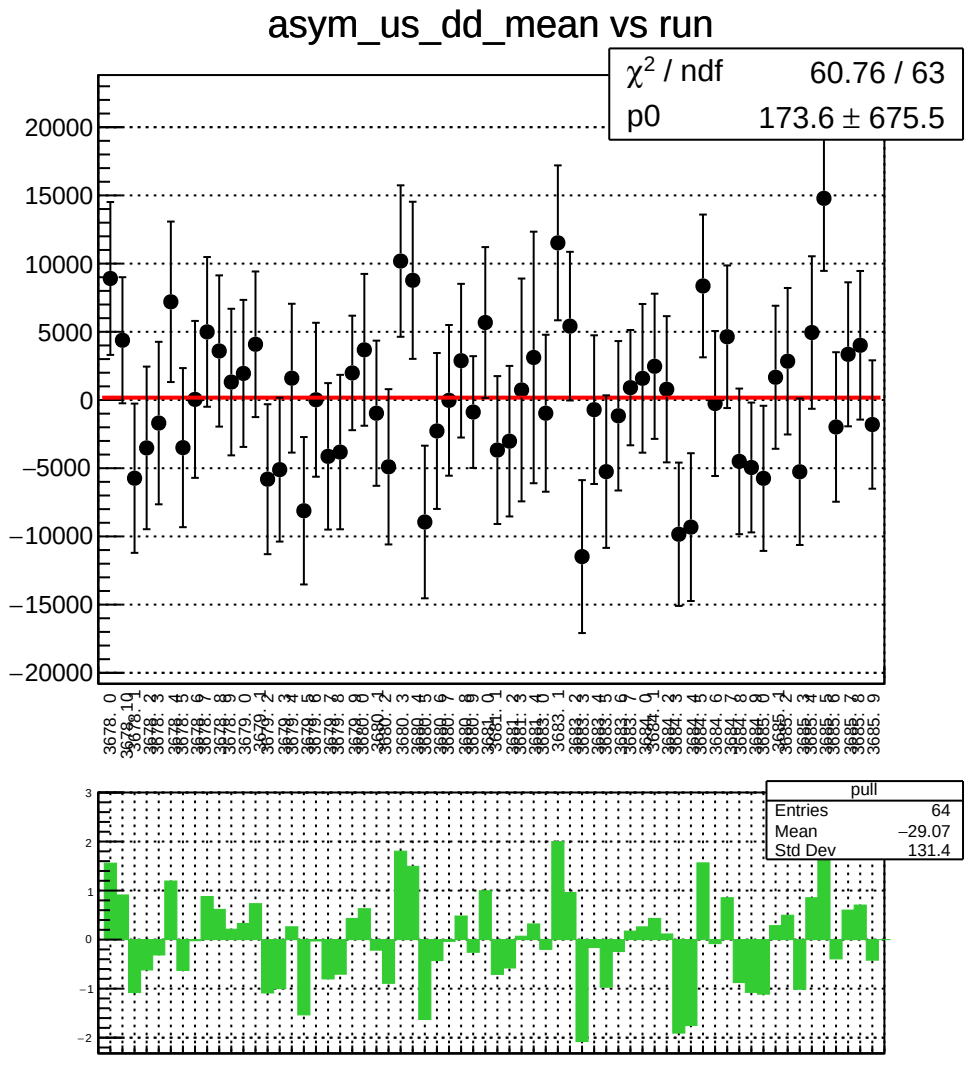

pull1D
Entries 64
Mean −0.0008351
Std Dev 0.9223

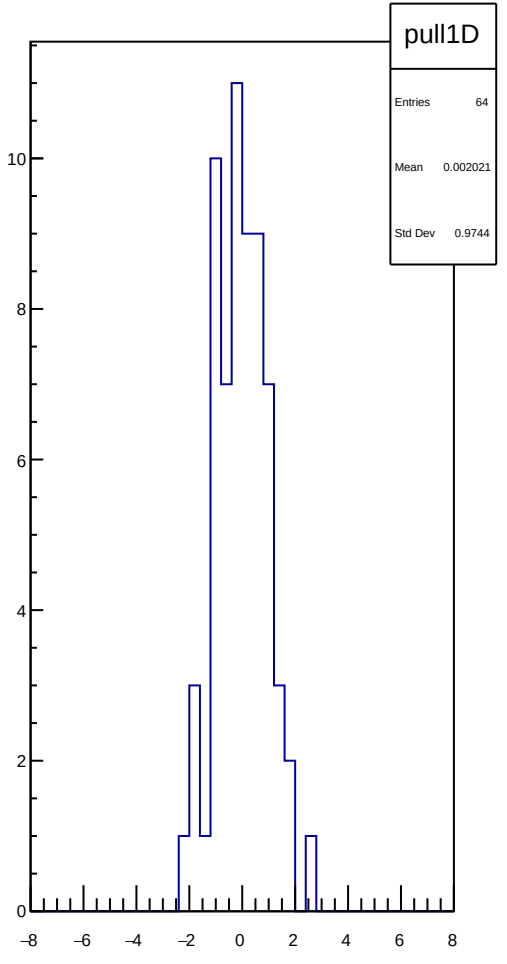

reg_asym_us_dd_rms vs run
$\chi^2$ / ndf 93.48 / 63
p0 92.41 ± 0.08392
95
94
93
92
91
90

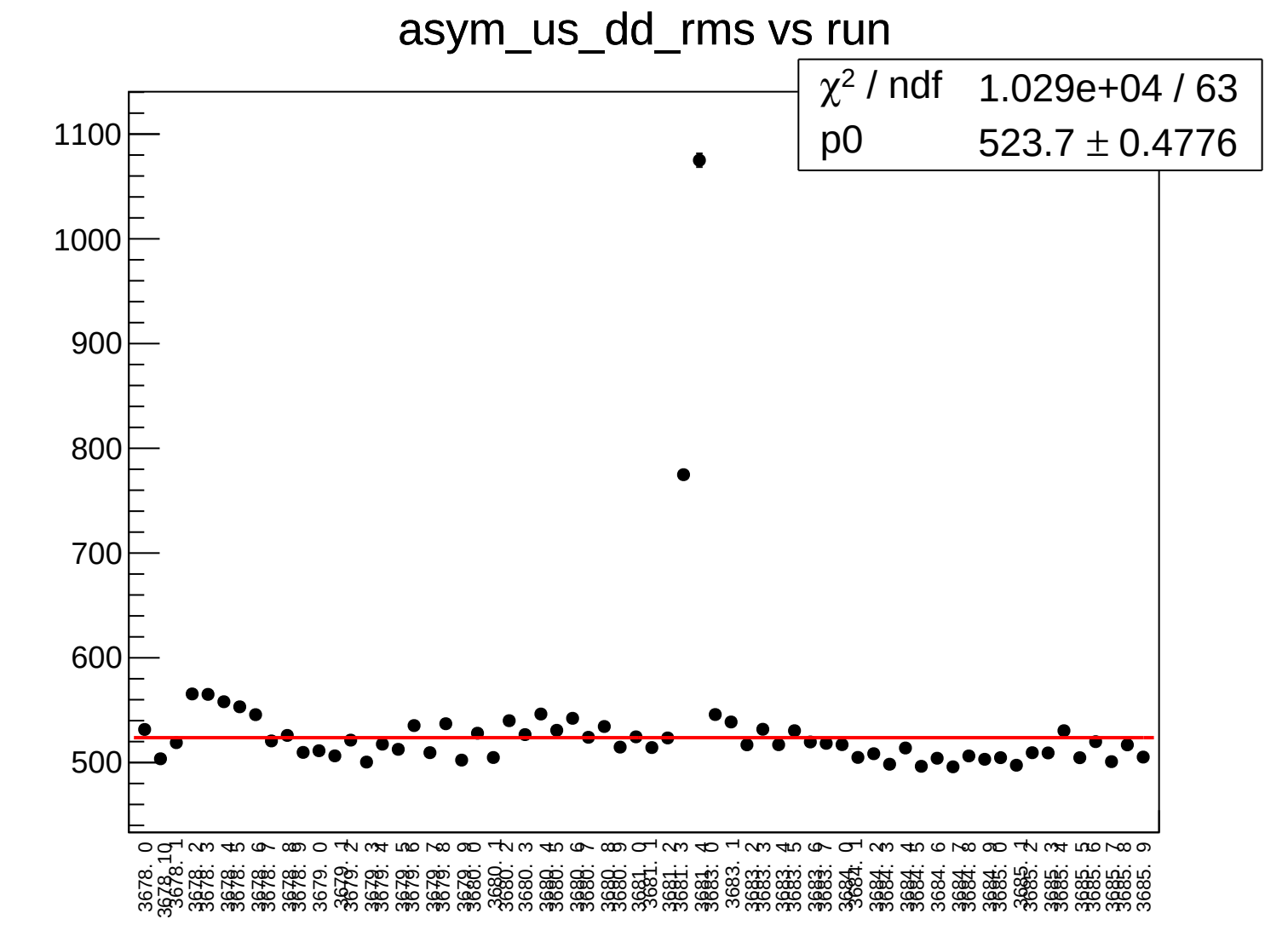

asym_us_dd_correction_mean vs run
χ² / ndf 59.35 / 63
p0 −143.3 ± 664.8
pull
Entries 64
Mean −66.5
Std Dev 106

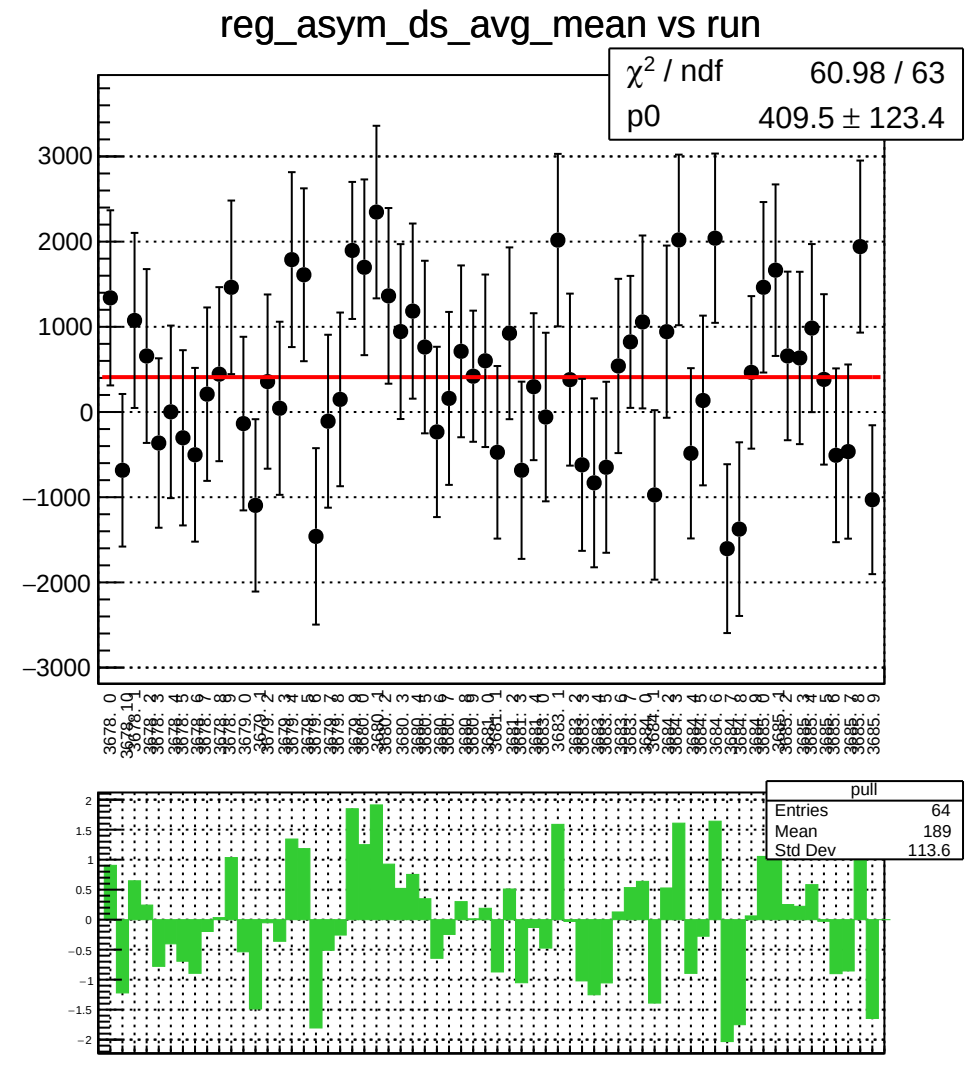

pull1D
Entries 64
Mean −0.00203
Std Dev 0.963

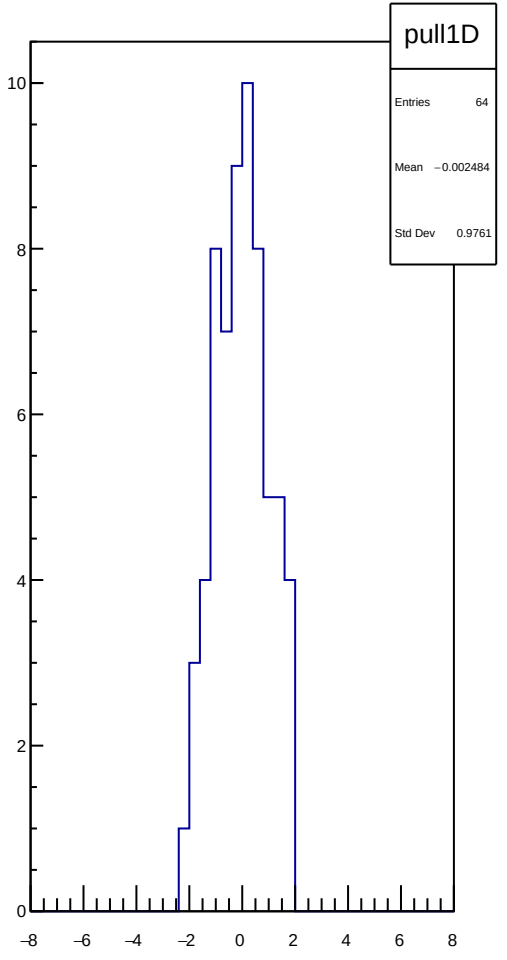

asym_us_dd_correction_rms vs run
χ² / ndf 1.06e+04 / 63
p0 515.4 ± 0.4701
1100
1000
900
800
700
600
500

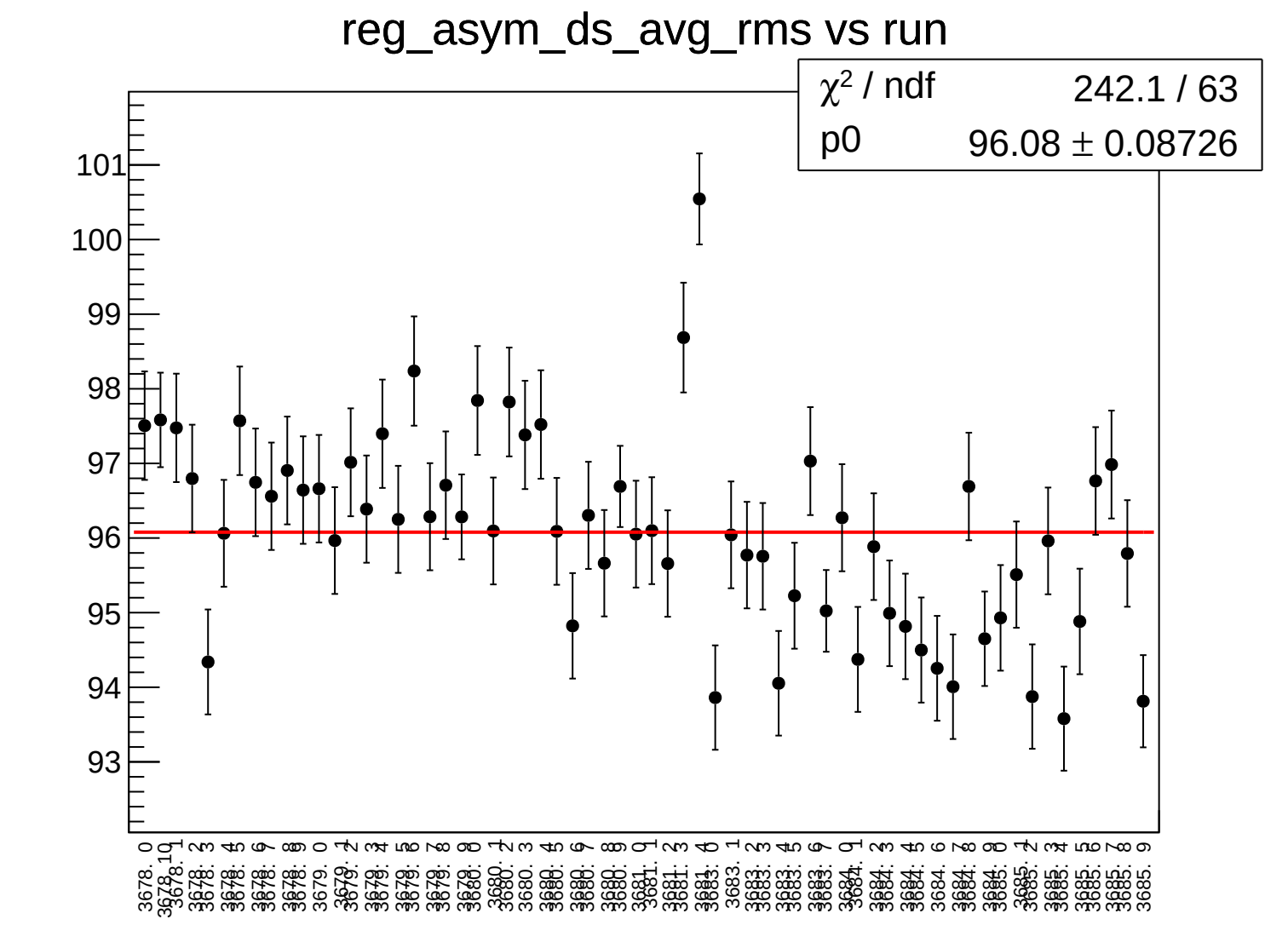

asym_us_dd_mean vs run
χ² / ndf 60.76 / 63
p0 173.6 ± 675.5
pull
Entries 64
Mean −29.07
Std Dev 131.4

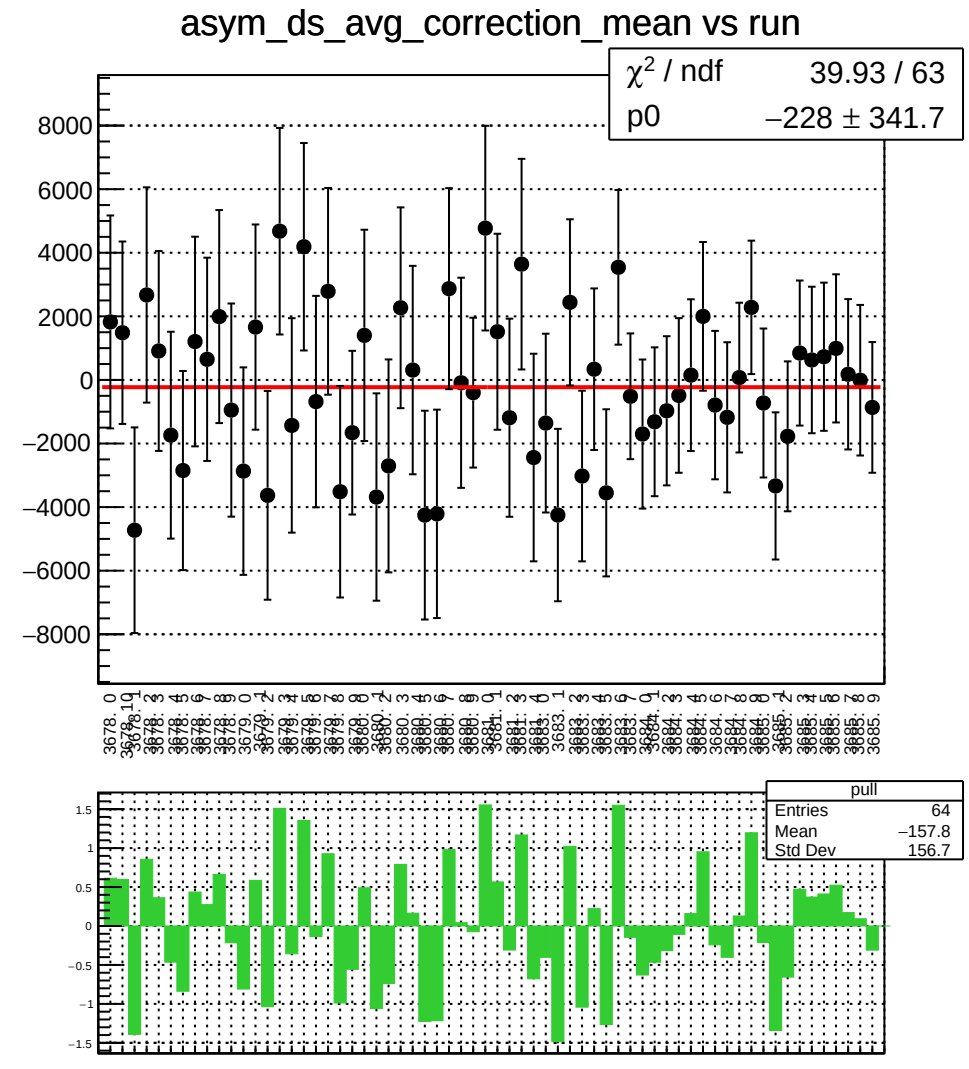

pull1D
Entries 64
Mean 0.002021
Std Dev 0.9744

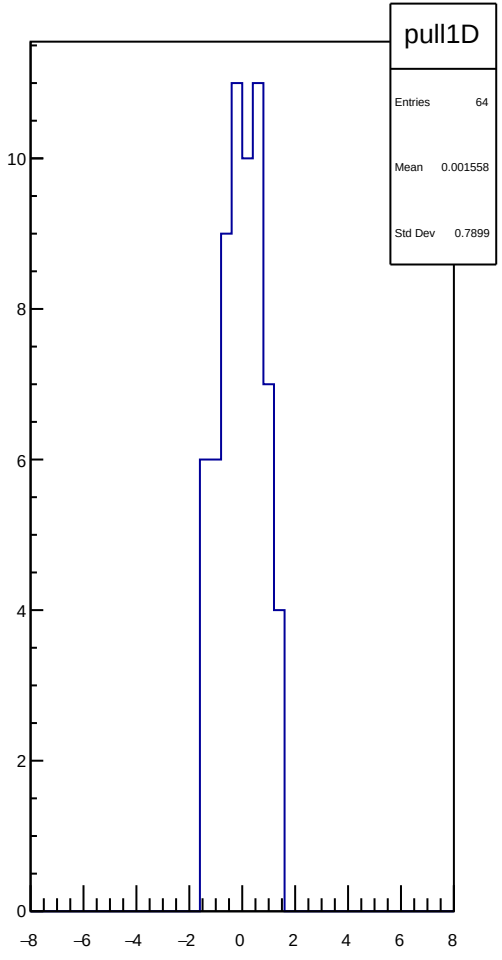

asym_us_dd_rms vs run
χ² / ndf 1.029e+04 / 63
p0 523.7 ± 0.4776
1100
1000
900
800
700
600
500

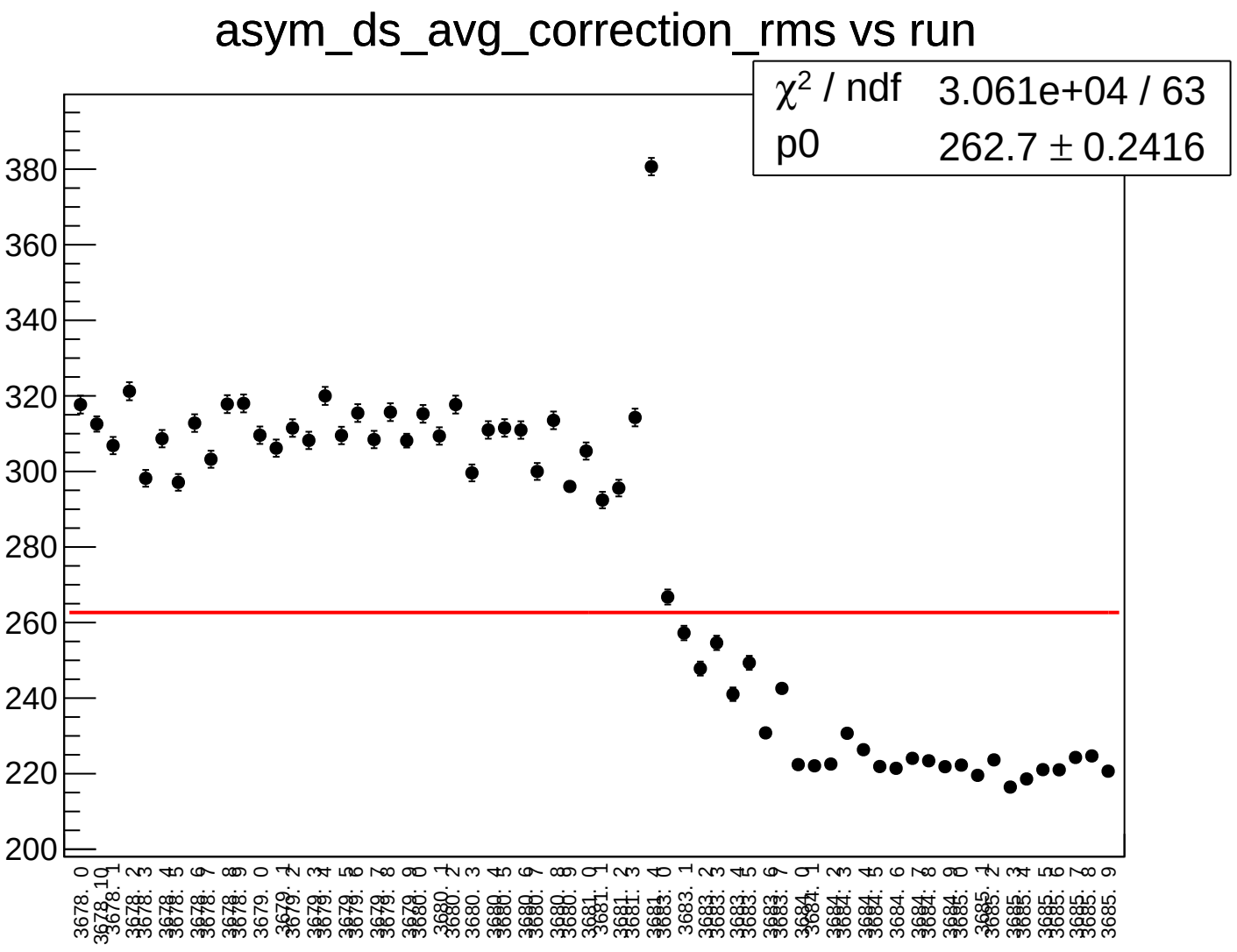

reg_asym_ds_avg_mean vs run
χ² / ndf 60.98 / 63
p0 409.5 ± 123.4
pull
Entries 64
Mean 189
Std Dev 113.6

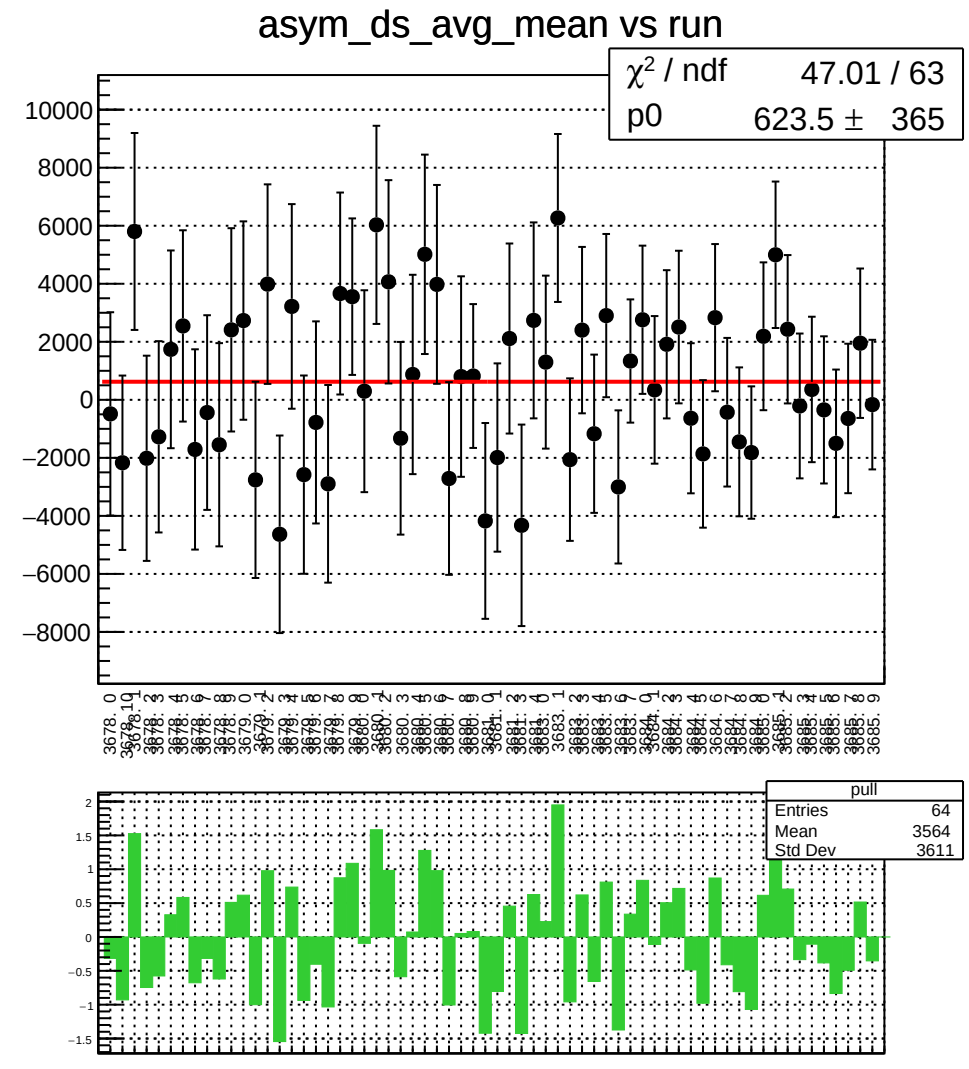

pull1D
Entries 64
Mean −0.002484
Std Dev 0.9761

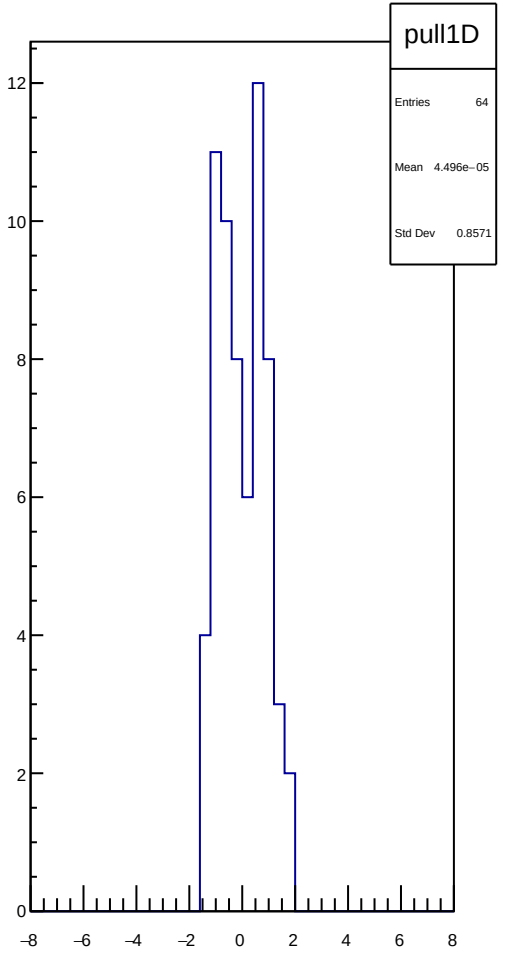

reg_asym_ds_avg_rms vs run
χ² / ndf 242.1 / 63
p0 96.08 ± 0.08726
101
100
99
98
97
96
95
94
93

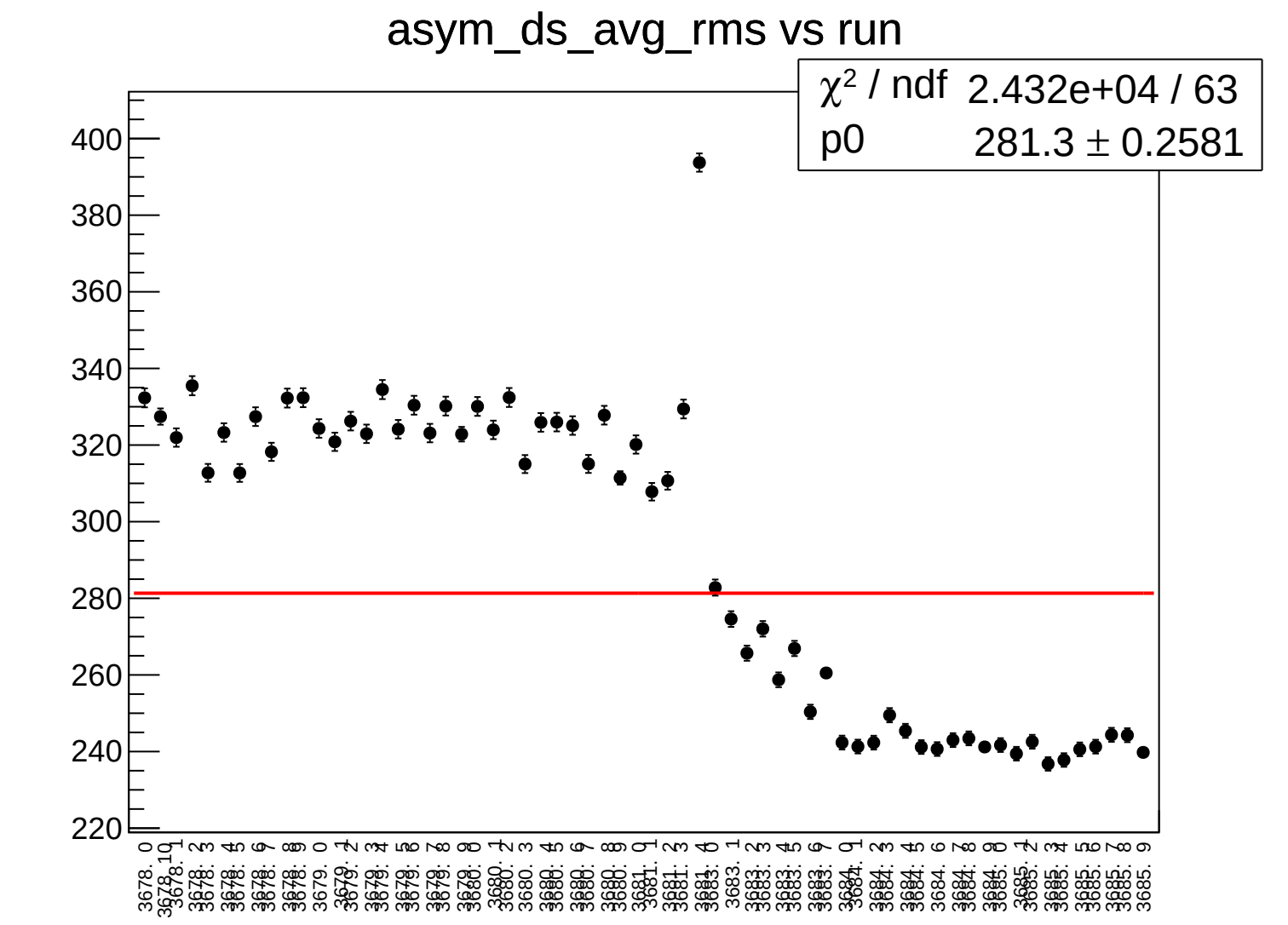

asym_ds_avg_correction_mean vs run
χ² / ndf 39.93 / 63
p0 −228 ± 341.7
pull
Entries 64
Mean −157.8
Std Dev 156.7

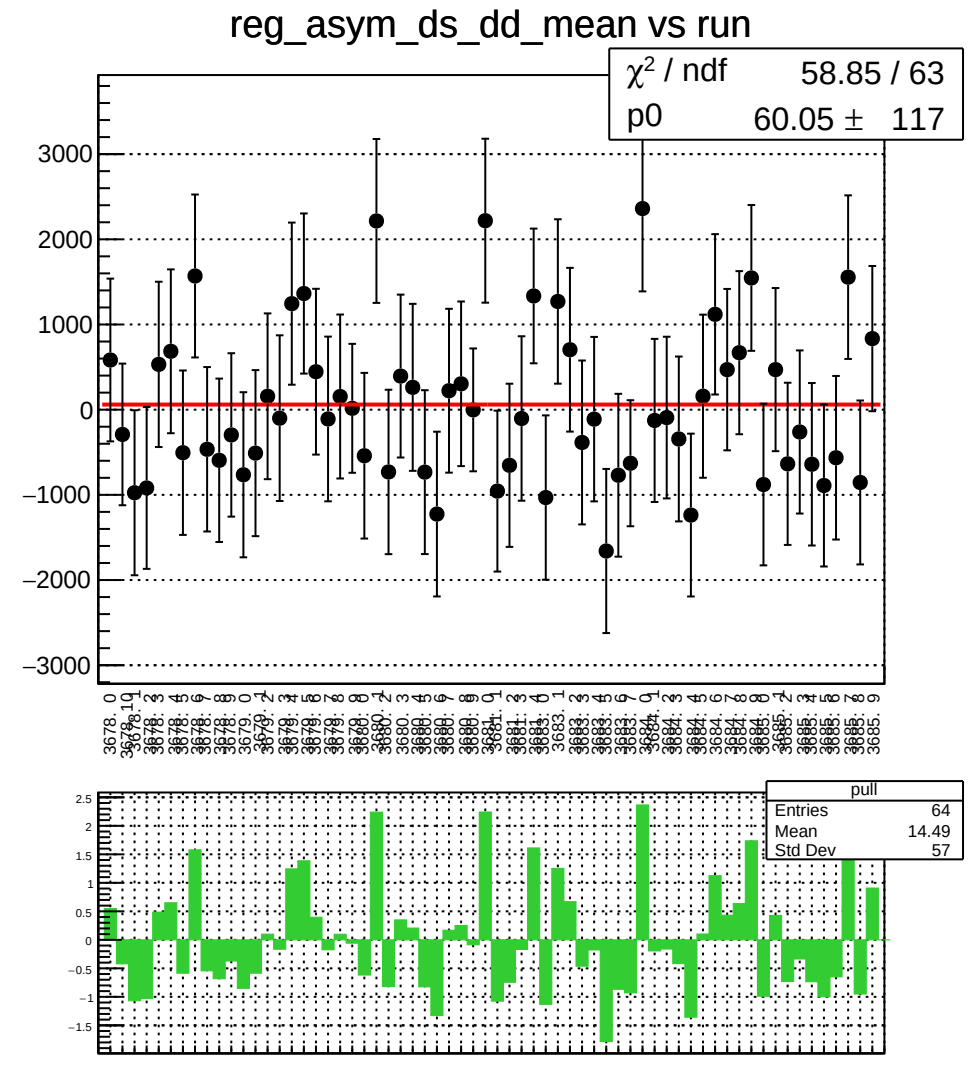

pull1D
Entries 64
Mean 0.001558
Std Dev 0.7899

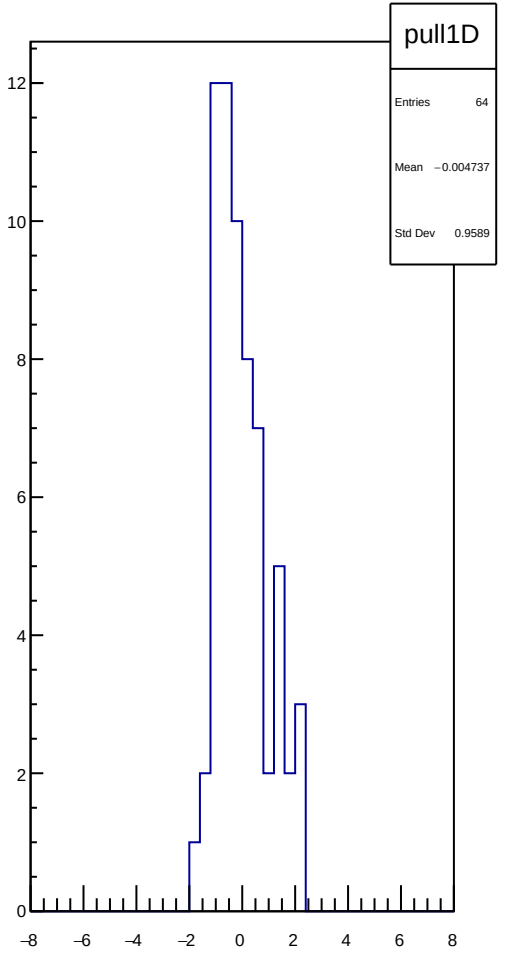

asym_ds_avg_correction_rms vs run
χ² / ndf 3.061e+04 / 63
p0 262.7 ± 0.2416
380
360
340
320
300
280
260
240
220
200

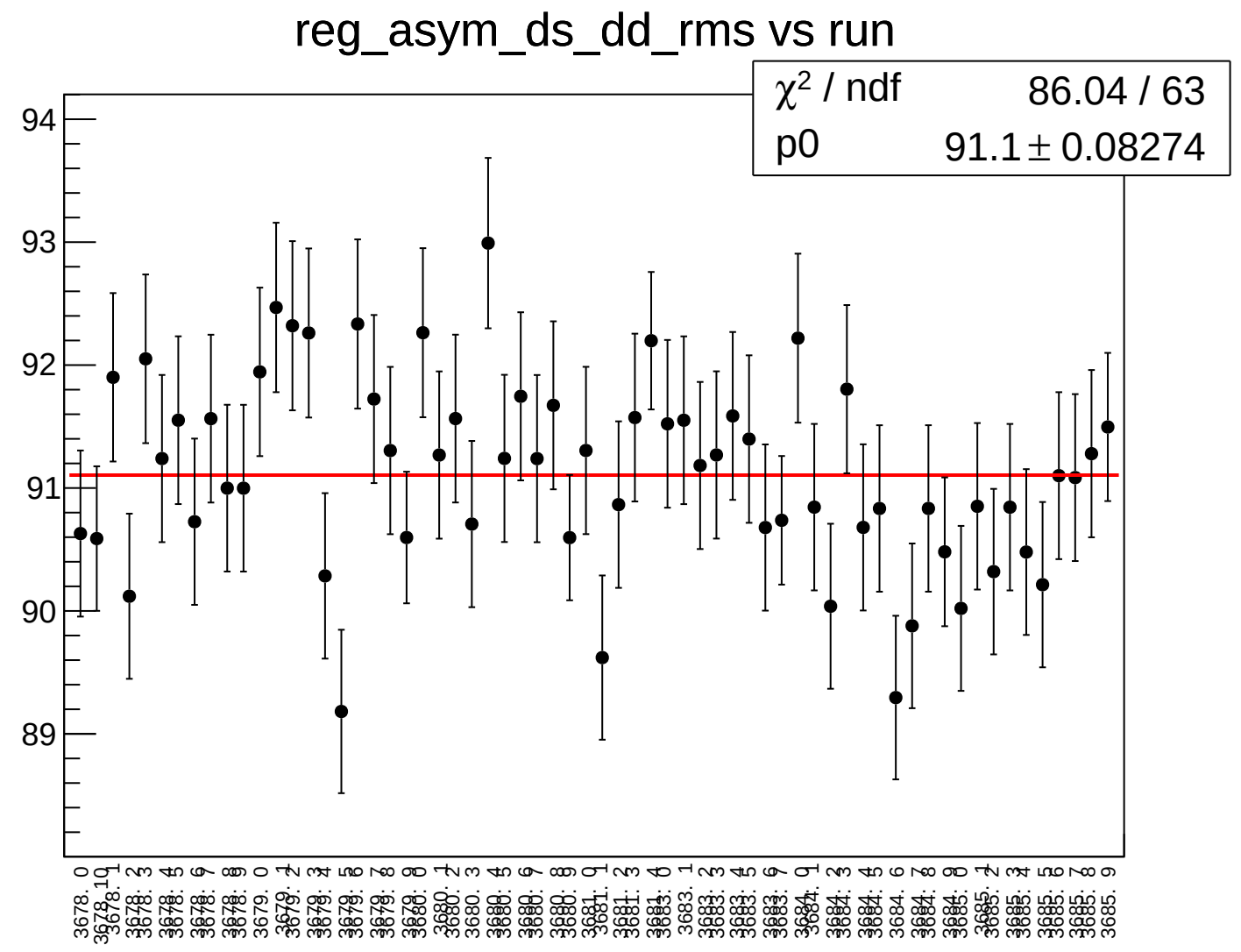

asym_ds_avg_mean vs run
χ² / ndf 47.01 / 63
p0 623.5 ± 365
pull
Entries 64
Mean 3564
Std Dev 3611

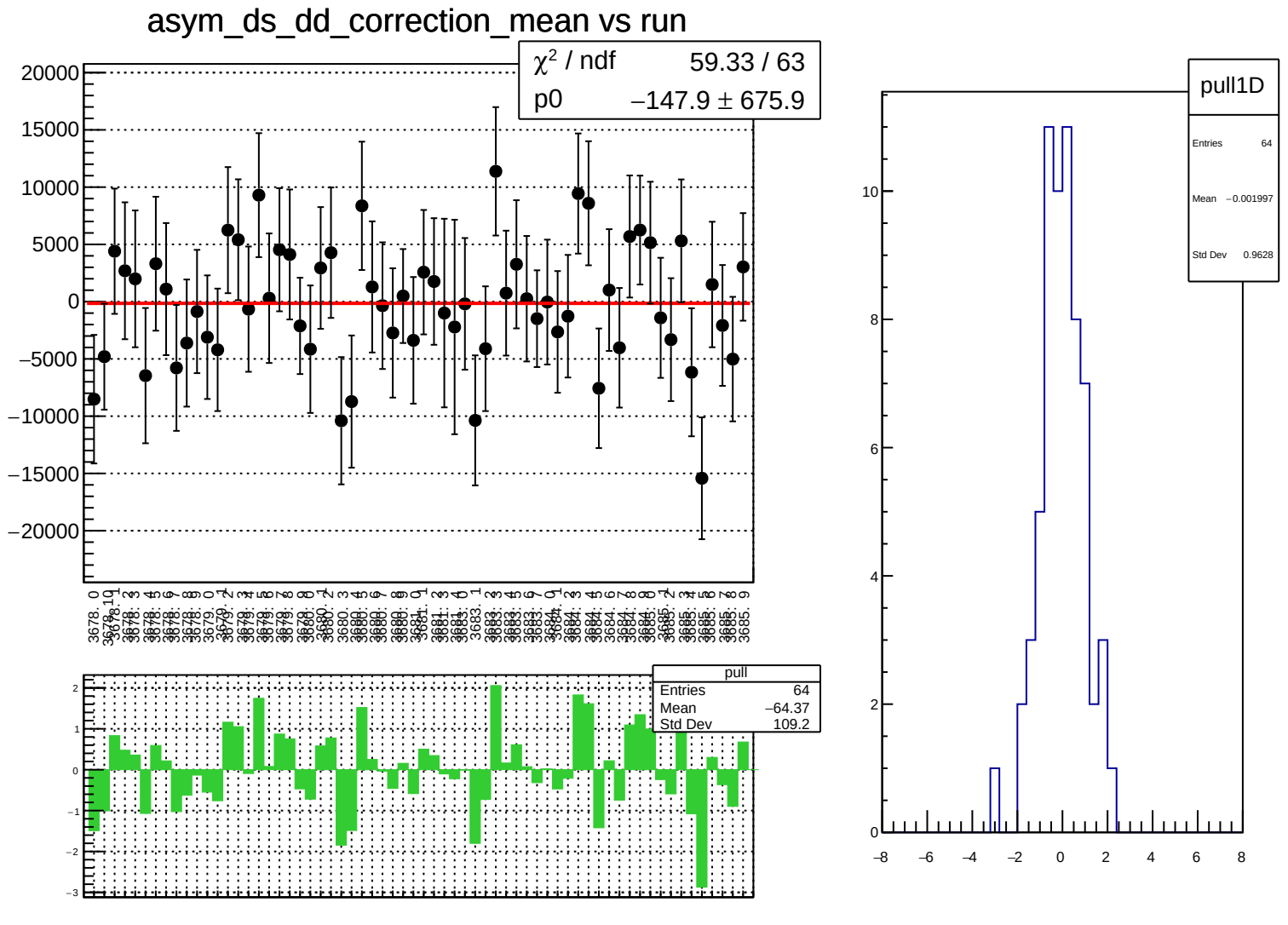

pull1D
Entries 64
Mean 4.496e−05
Std Dev 0.8571

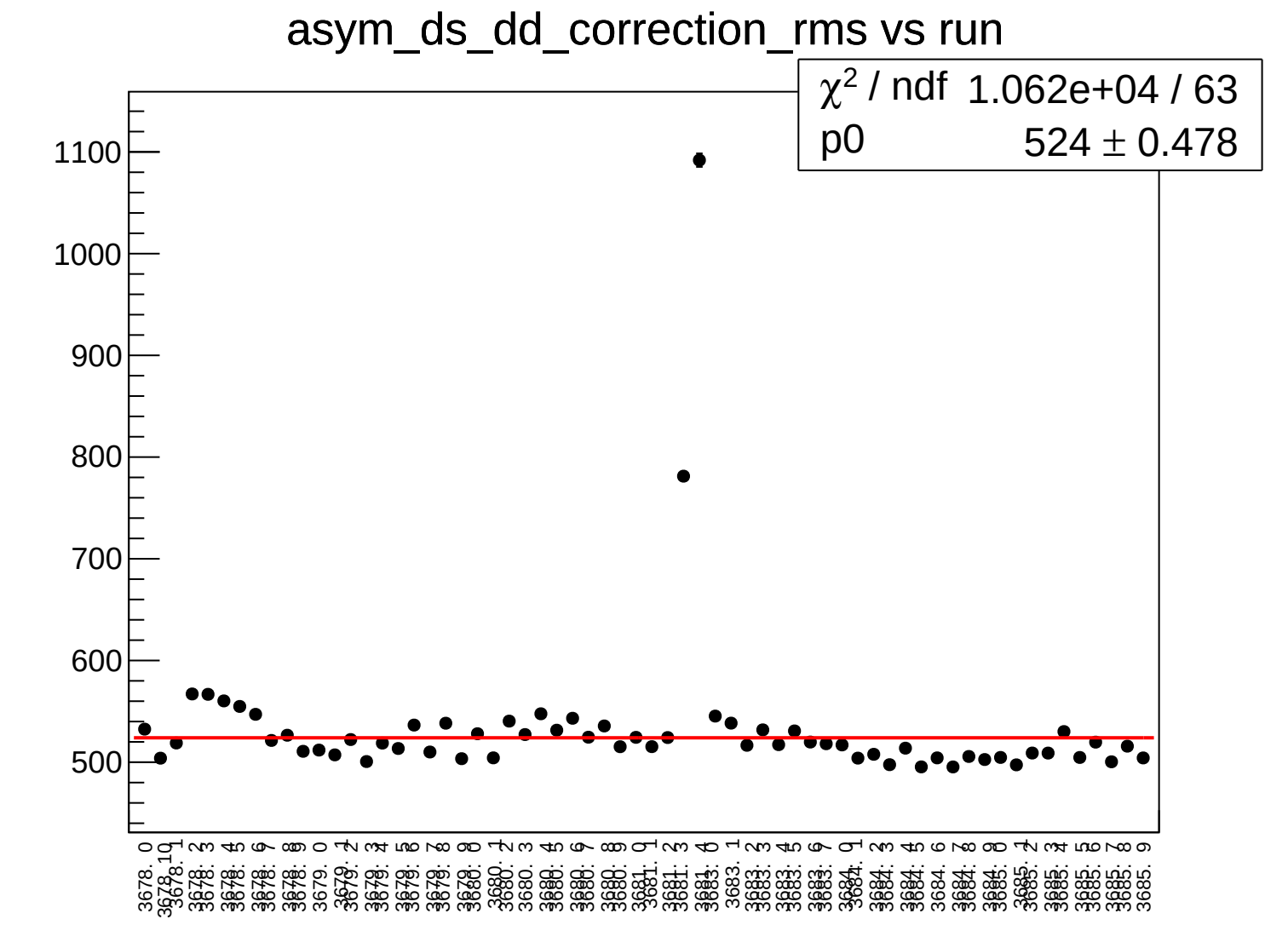

asym_ds_avg_rms vs run
χ² / ndf 2.432e+04 / 63
p0 281.3 ± 0.2581
400
380
360
340
320
300
280
260
240
220

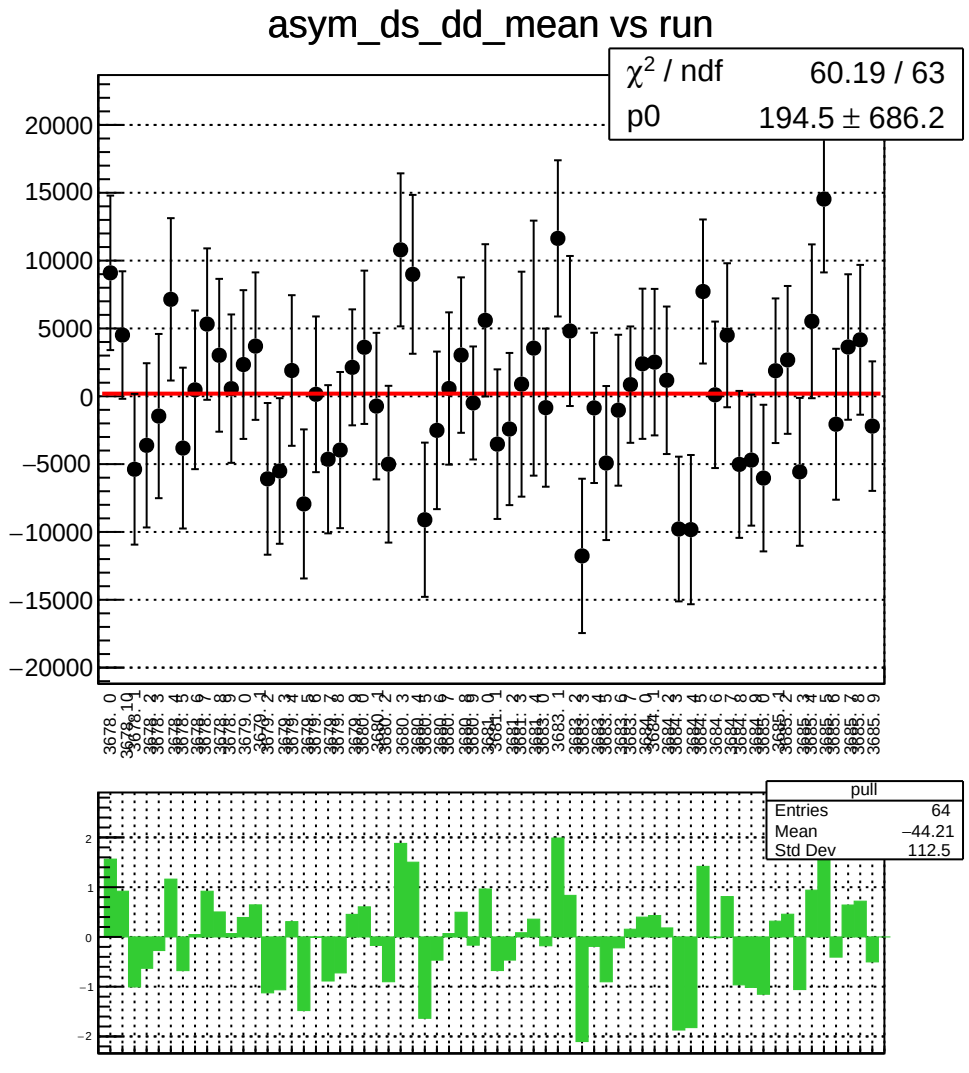

reg_asym_ds_dd_mean vs run
χ² / ndf 58.85 / 63
p0 60.05 ± 117
pull
Entries 64
Mean 14.49
Std Dev 57

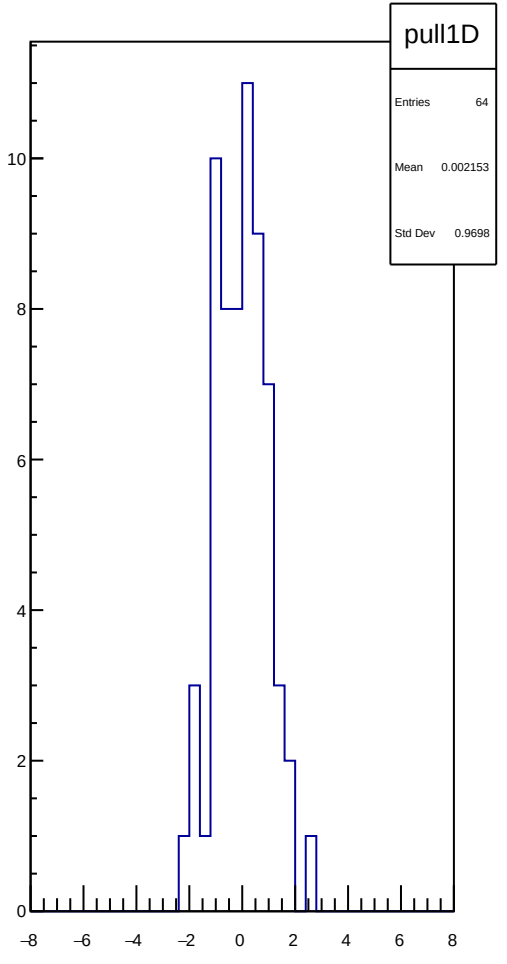

pull1D
Entries 64
Mean −0.004737
Std Dev 0.9589

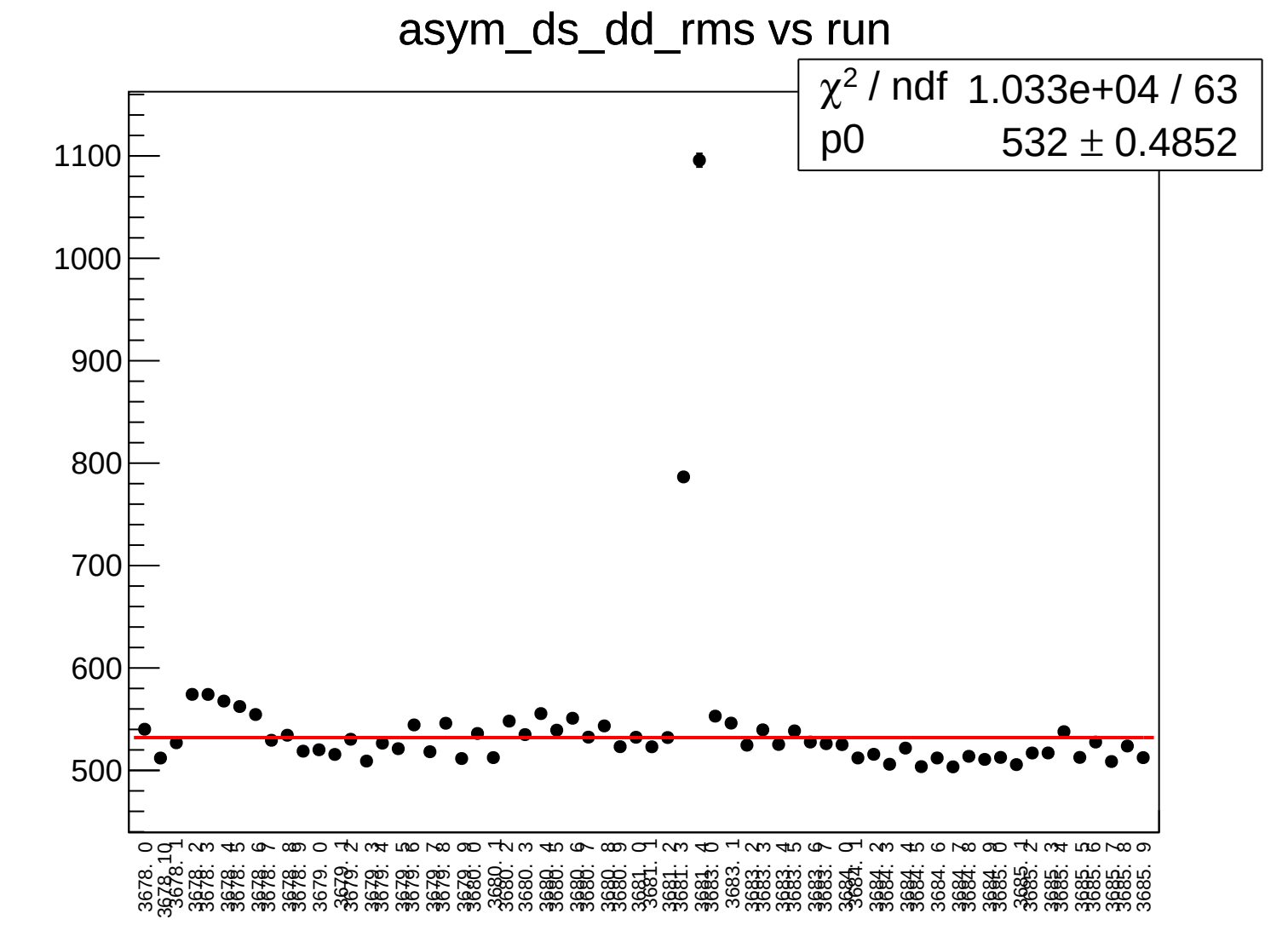

reg_asym_ds_dd_rms vs run
χ² / ndf 86.04 / 63
p0 91.1 ± 0.08274
94
93
92
91
90
89

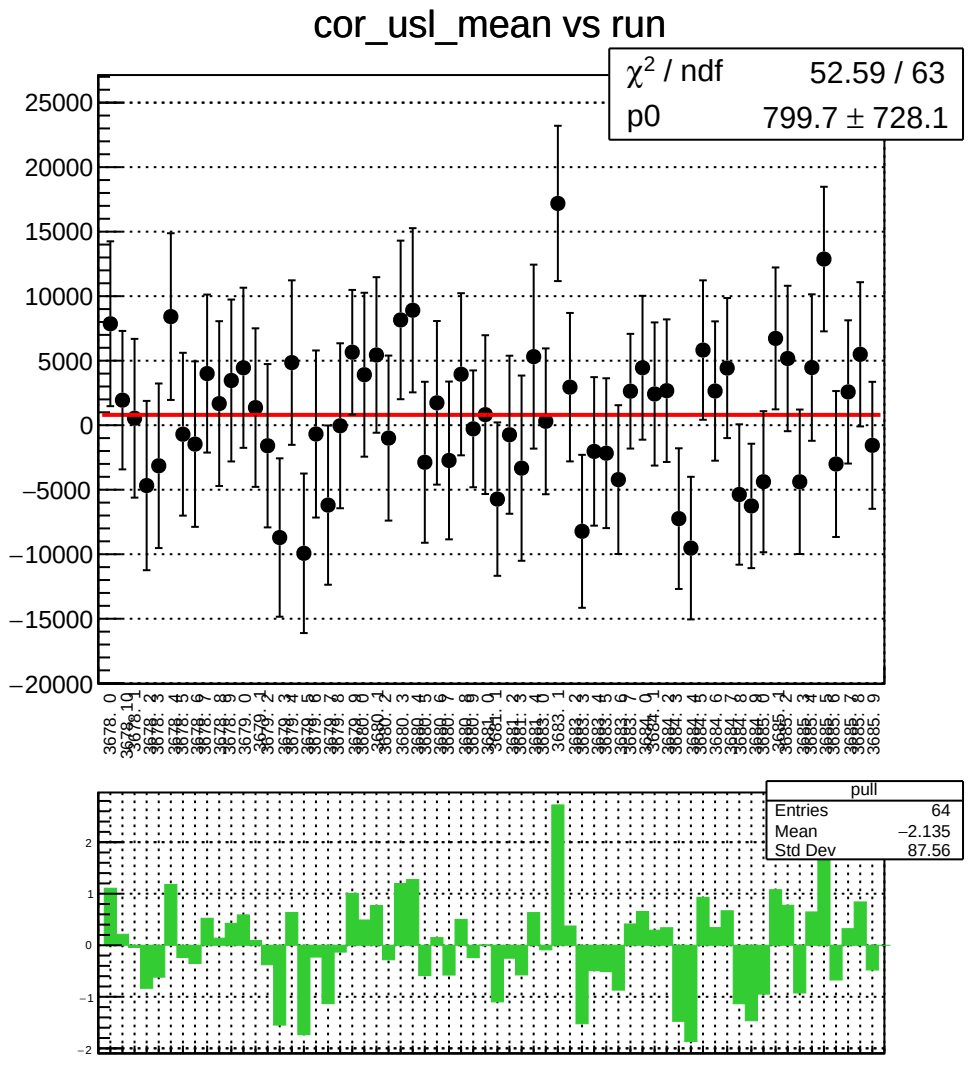

asym_ds_dd_correction_mean vs run
χ² / ndf 59.33 / 63
p0 −147.9 ± 675.9
pull
Entries 64
Mean −64.37
Std Dev 109.2
pull1D
Entries 64
Mean −0.001997
Std Dev 0.9628

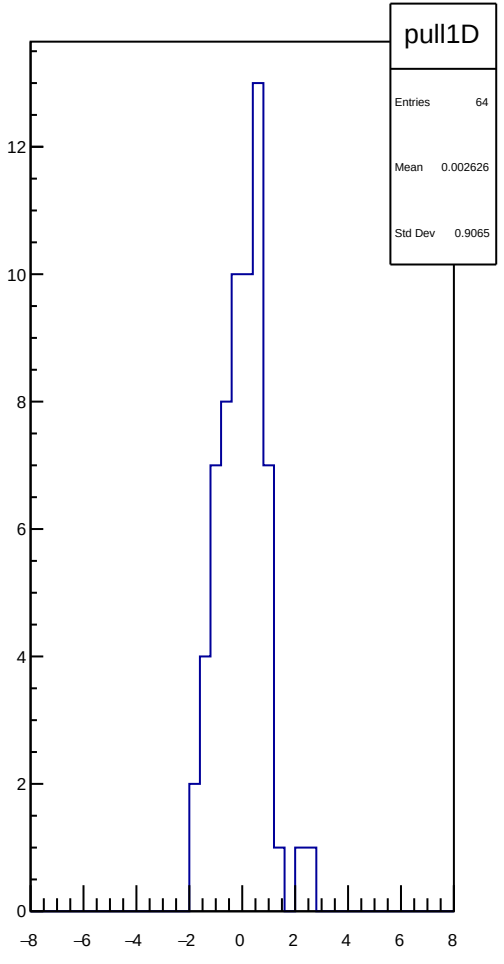

asym_ds_dd_correction_rms vs run
χ² / ndf 1.062e+04 / 63
p0 524 ± 0.478
1100
1000
900
800
700
600
500

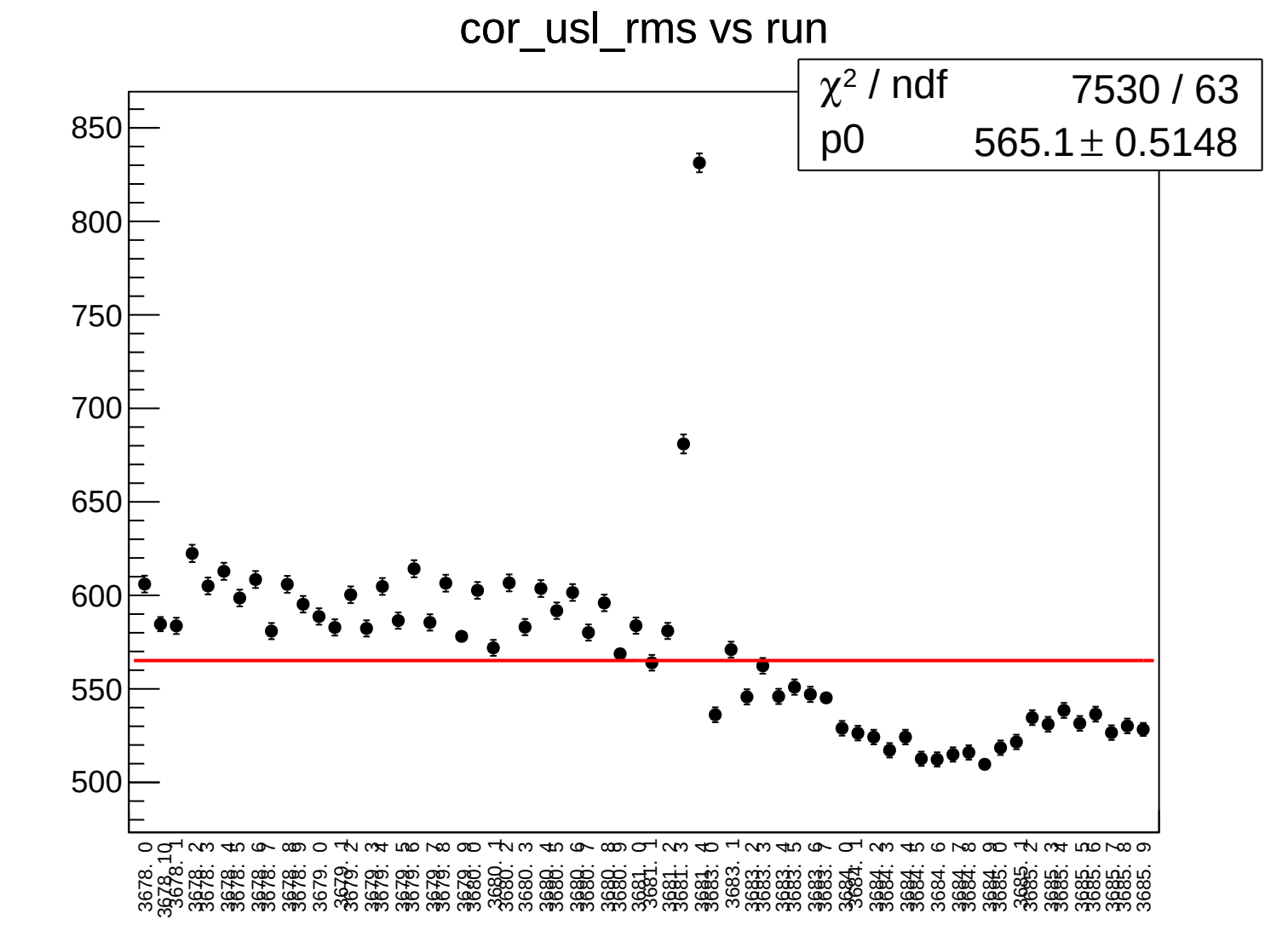

asym_ds_dd_mean vs run
χ² / ndf 60.19 / 63
p0 194.5 ± 686.2
pull
Entries 64
Mean −44.21
Std Dev 112.5

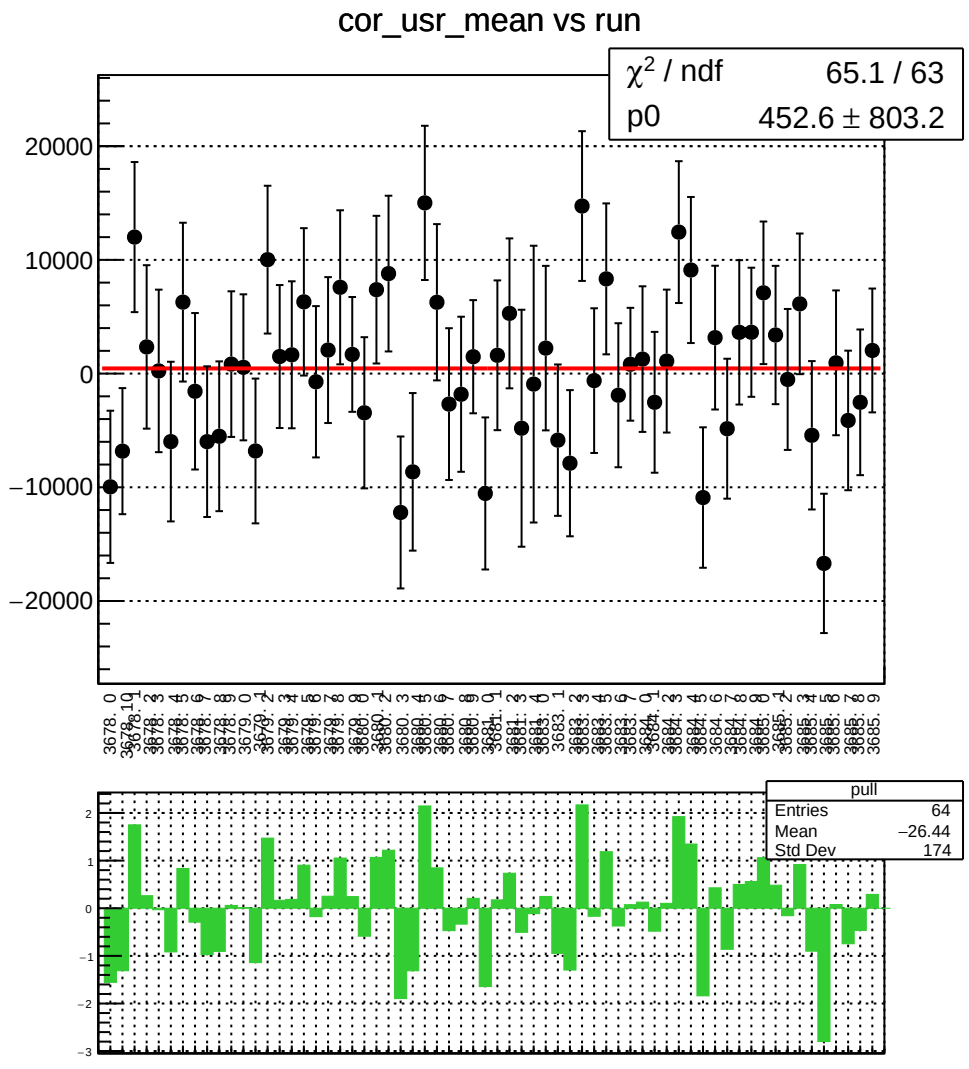

pull1D
Entries 64
Mean 0.002153
Std Dev 0.9698

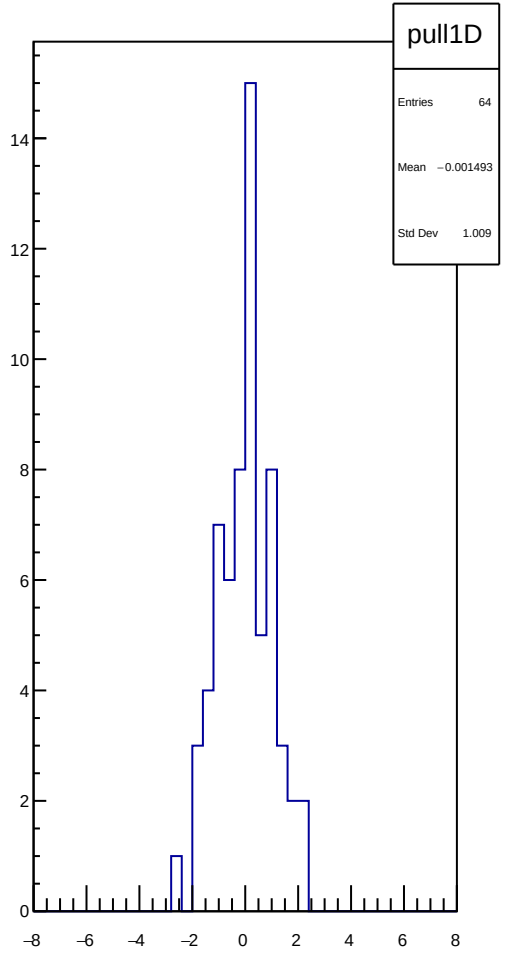

asym_ds_dd_rms vs run
χ² / ndf 1.033e+04 / 63
p0 532 ± 0.4852
1100
1000
900
800
700
600
500

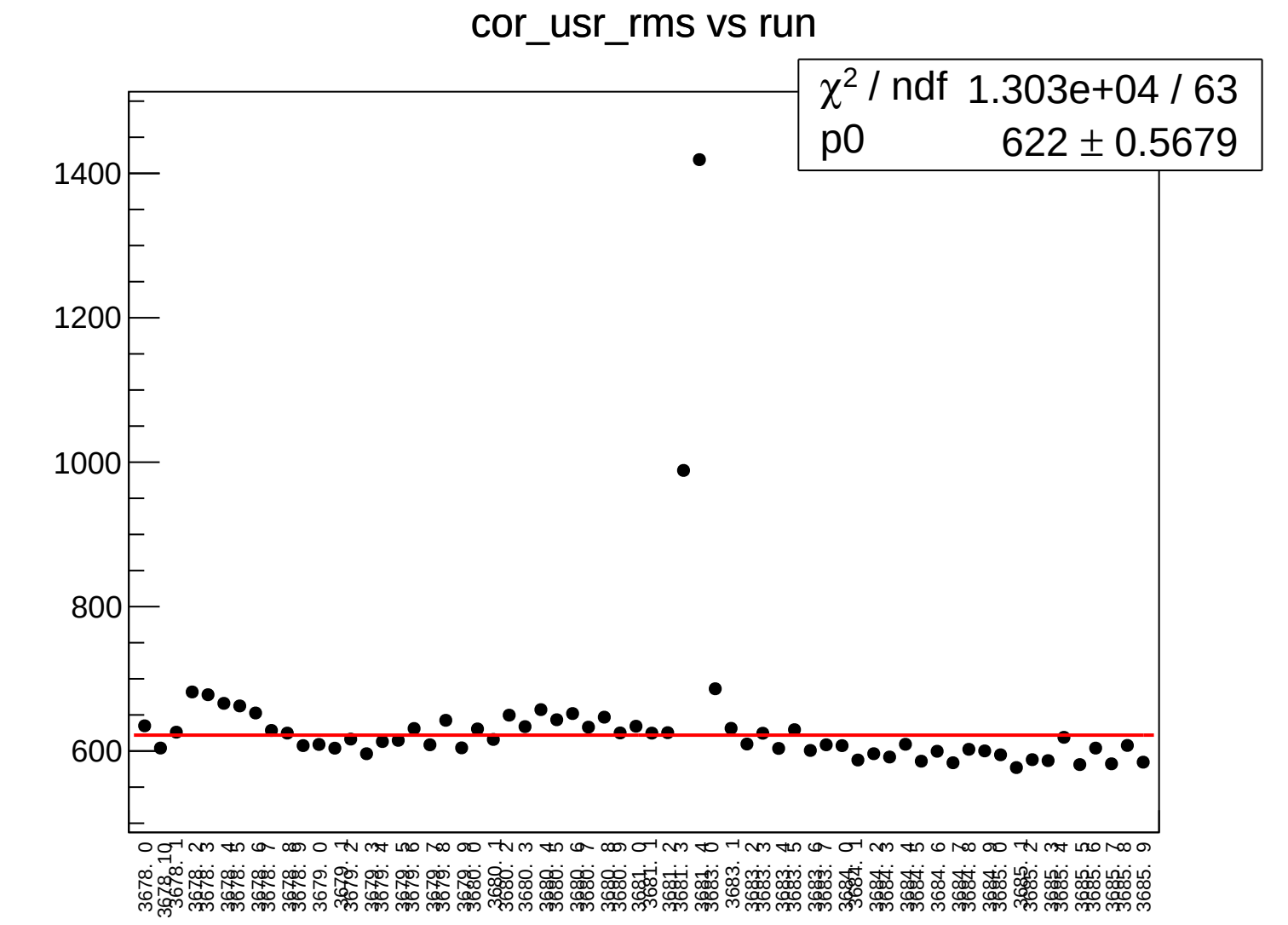

cor_usl_mean vs run
χ² / ndf 52.59 / 63
p0 799.7 ± 728.1
pull
Entries 64
Mean −2.135
Std Dev 87.56

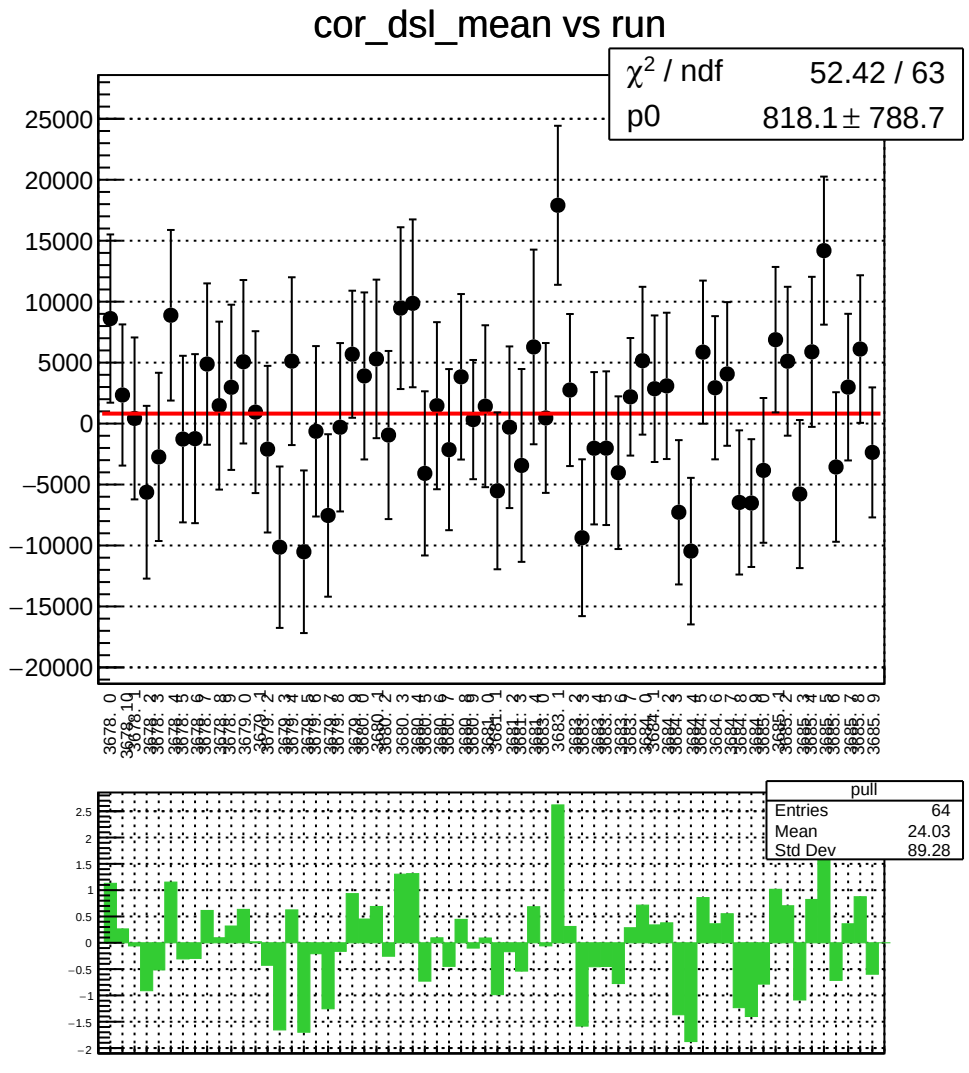

pull1D
Entries 64
Mean 0.002626
Std Dev 0.9065

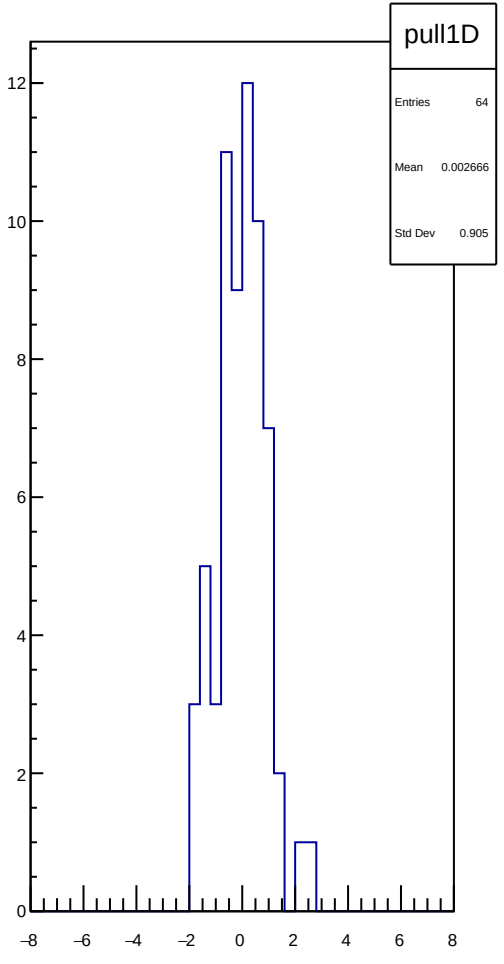

cor_usl_rms vs run
χ² / ndf 7530 / 63
p0 565.1 ± 0.5148
850
800
750
700
650
600
550
500

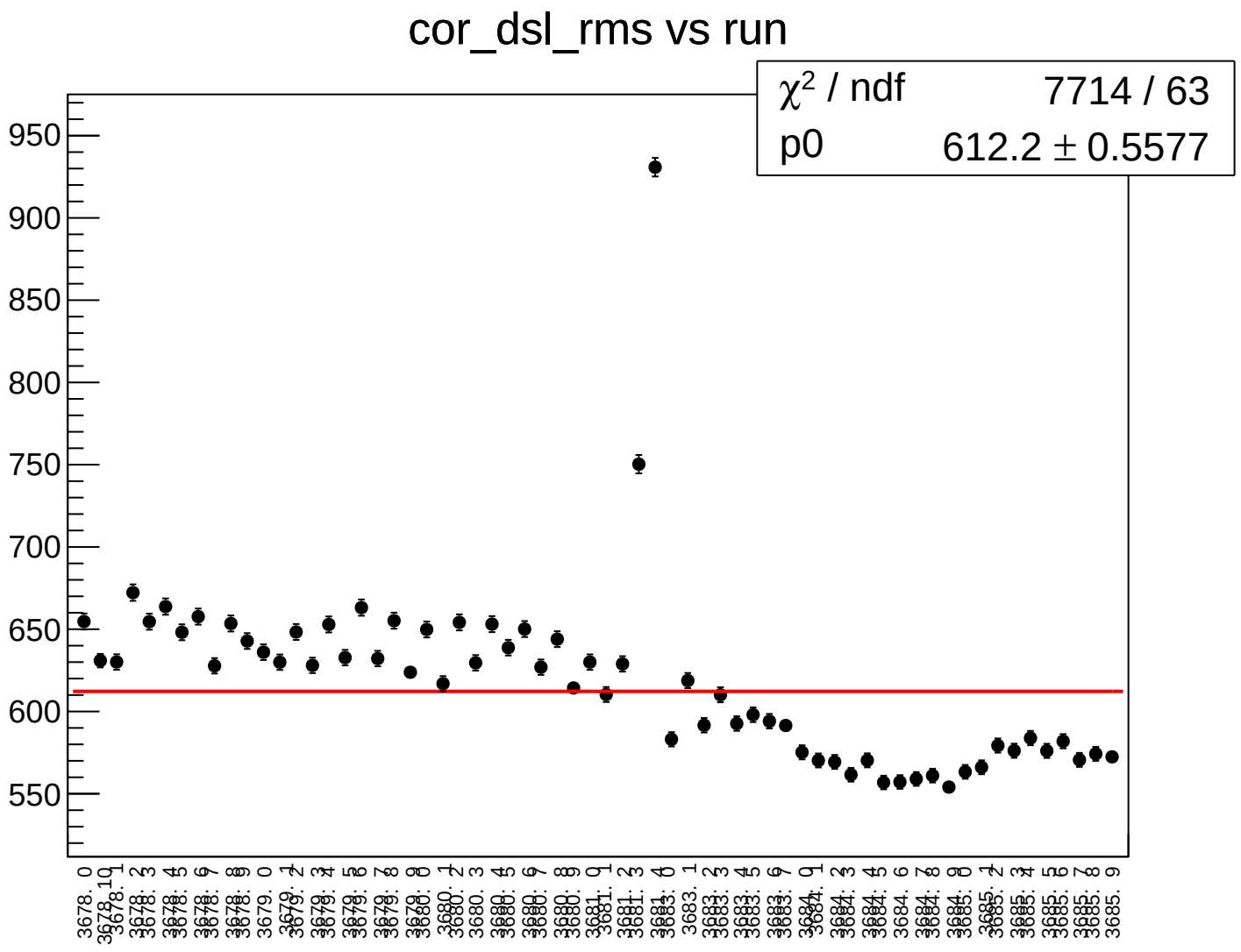

cor_usr_mean vs run
χ² / ndf 65.1 / 63
p0 452.6 ± 803.2
20000
10000
0
−10000
−20000
pull
Entries 64
Mean −26.44
Std Dev 174
2
1
0
−1
−2
−3

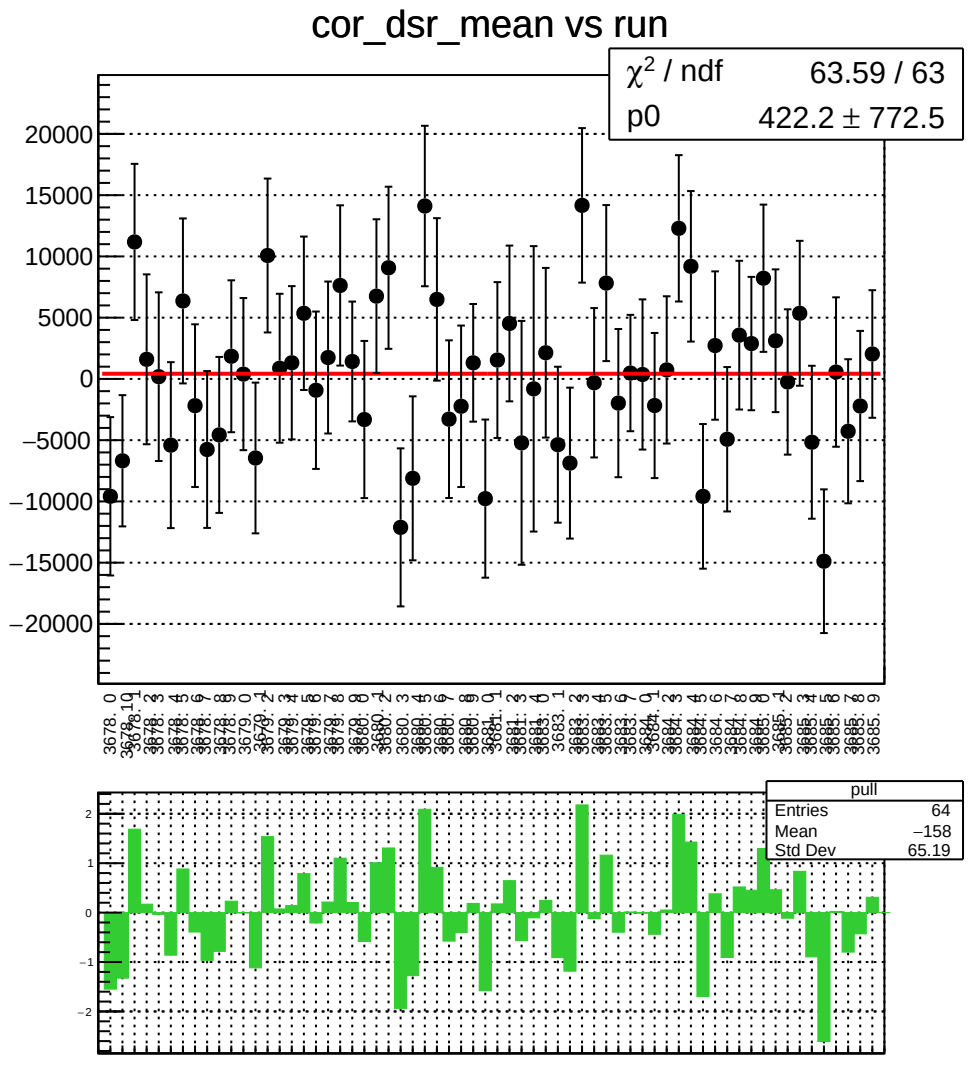

pull1D
Entries 64
Mean −0.001493
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

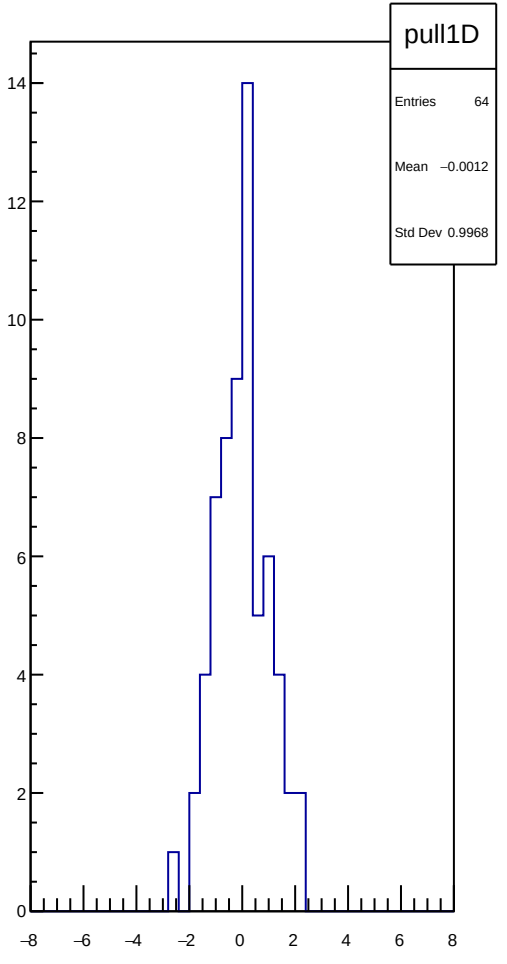

cor_usr_rms vs run
χ² / ndf 1.303e+04 / 63
p0 622 ± 0.5679
1400
1200
1000
800
600

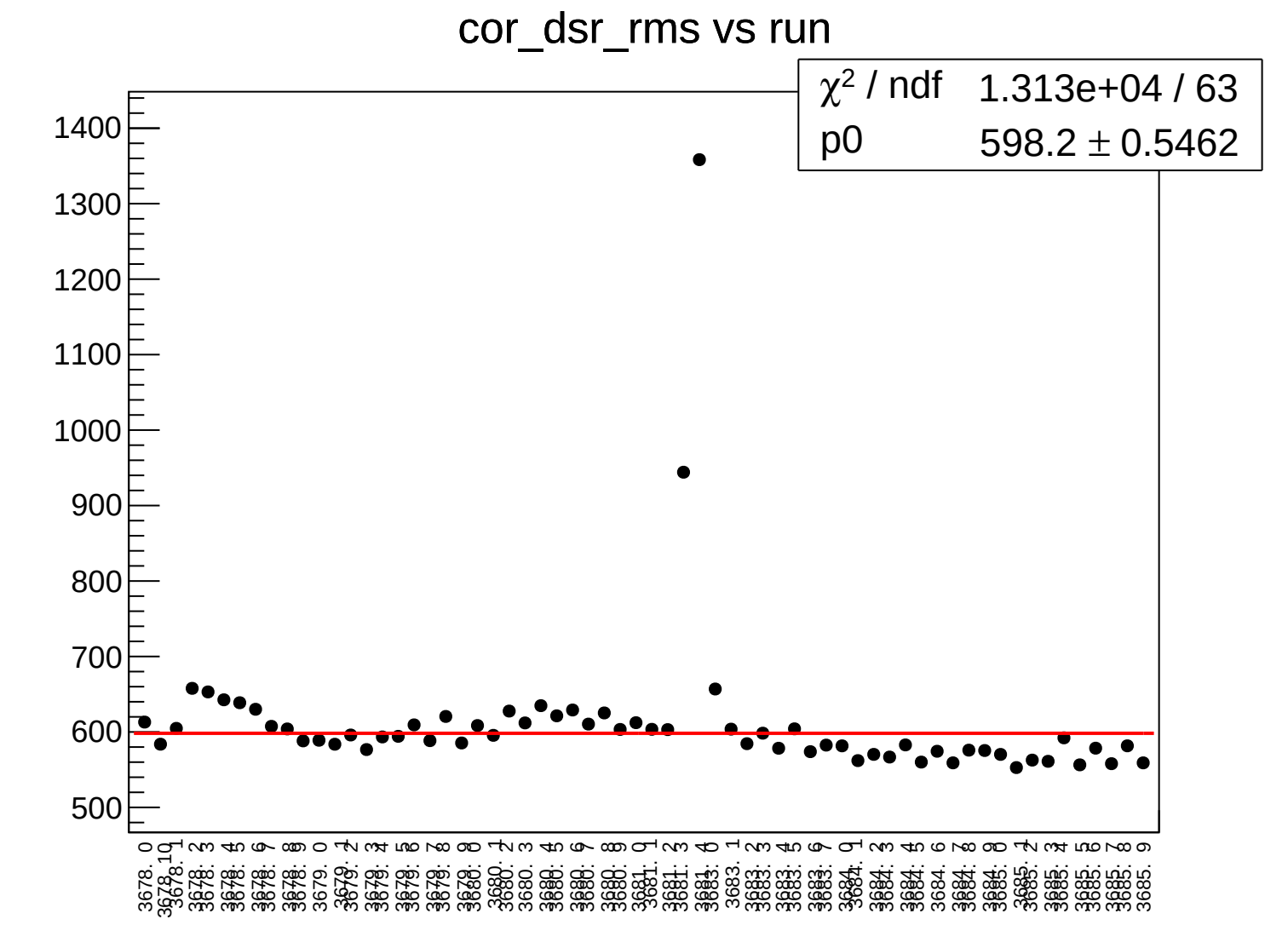

cor_dsl_mean vs run
χ² / ndf 52.42 / 63
p0 818.1 ± 788.7
pull
Entries 64
Mean 24.03
Std Dev 89.28

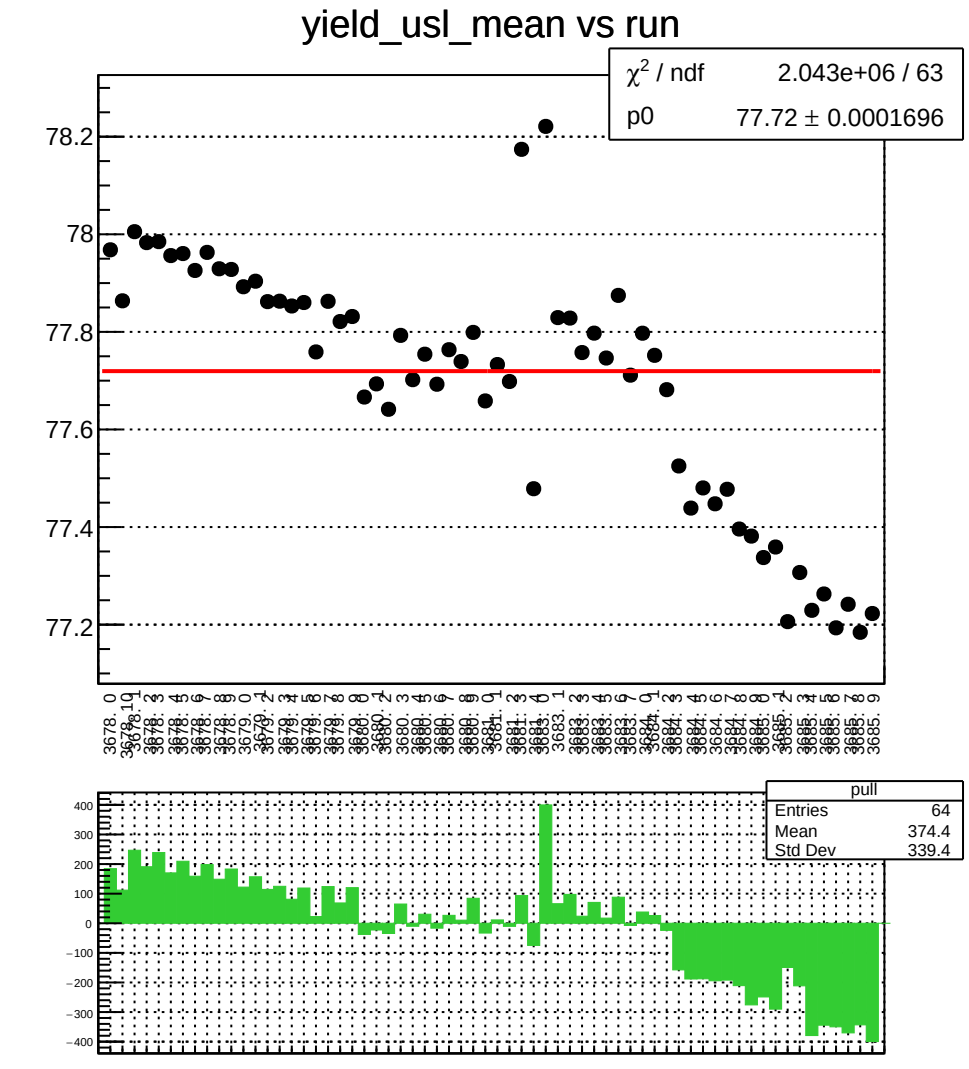

pull1D
Entries 64
Mean 0.002666
Std Dev 0.905

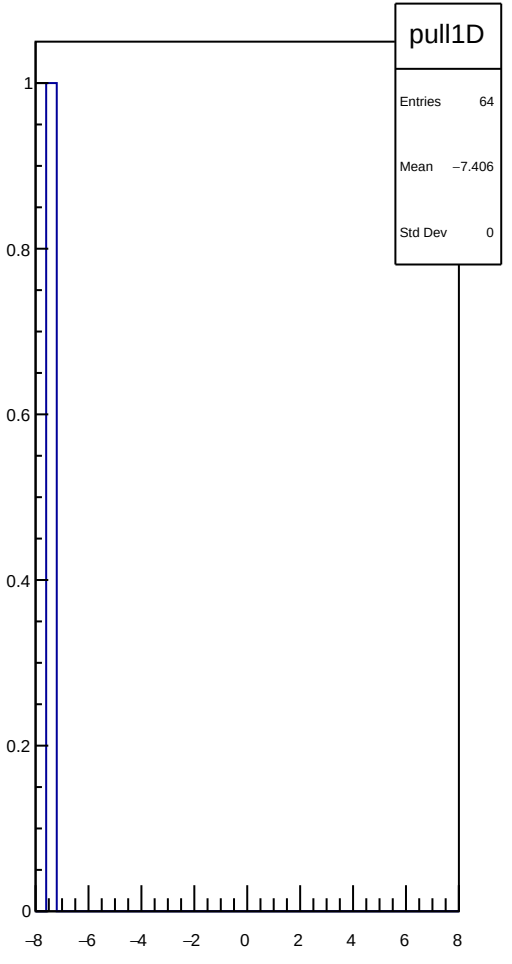

cor_dsl_rms vs run
χ² / ndf 7714 / 63
p0 612.2 ± 0.5577
950
900
850
800
750
700
650
600
550

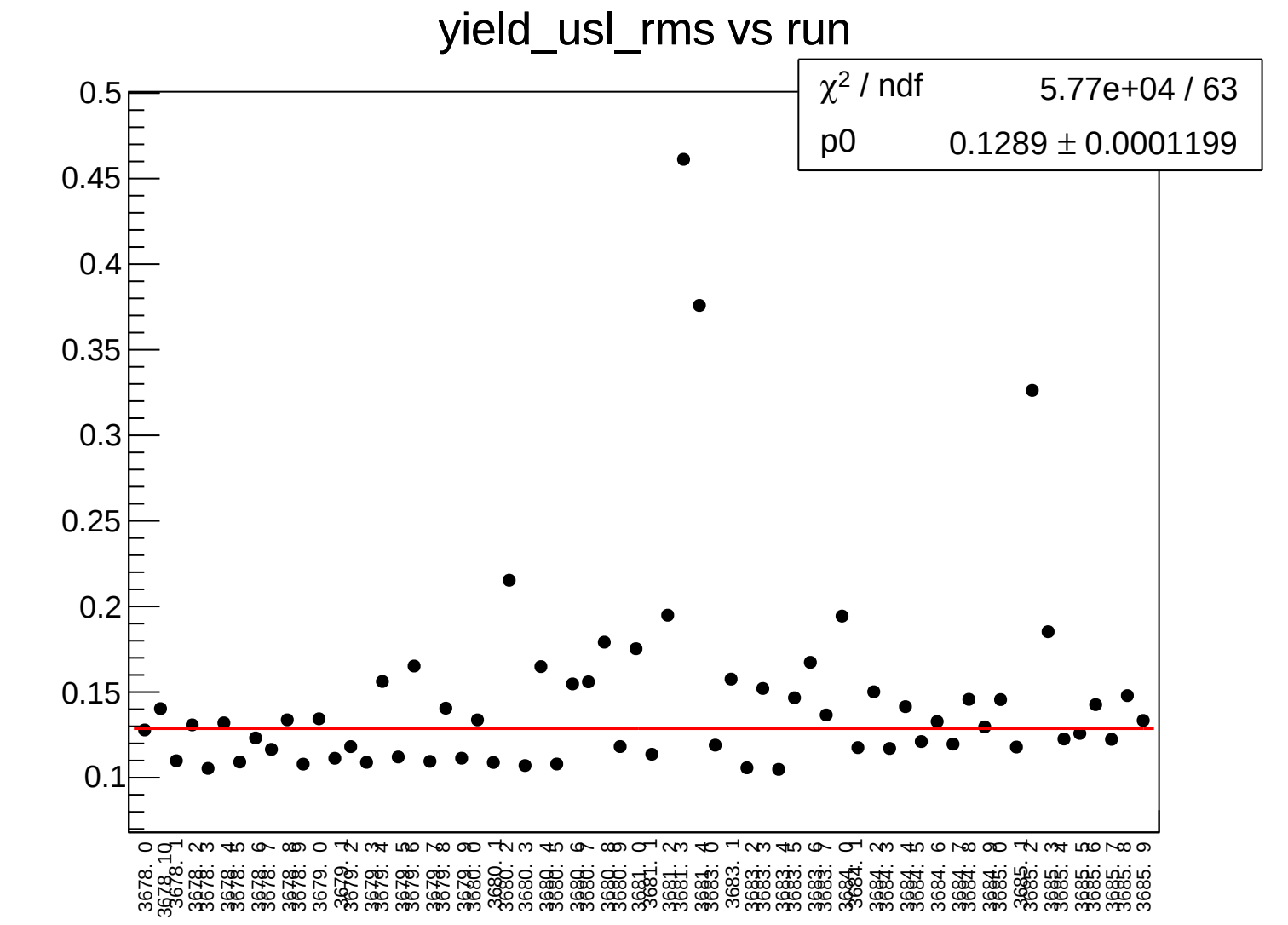

cor_dsr_mean vs run
χ² / ndf 63.59 / 63
p0 422.2 ± 772.5
pull
Entries 64
Mean −158
Std Dev 65.19

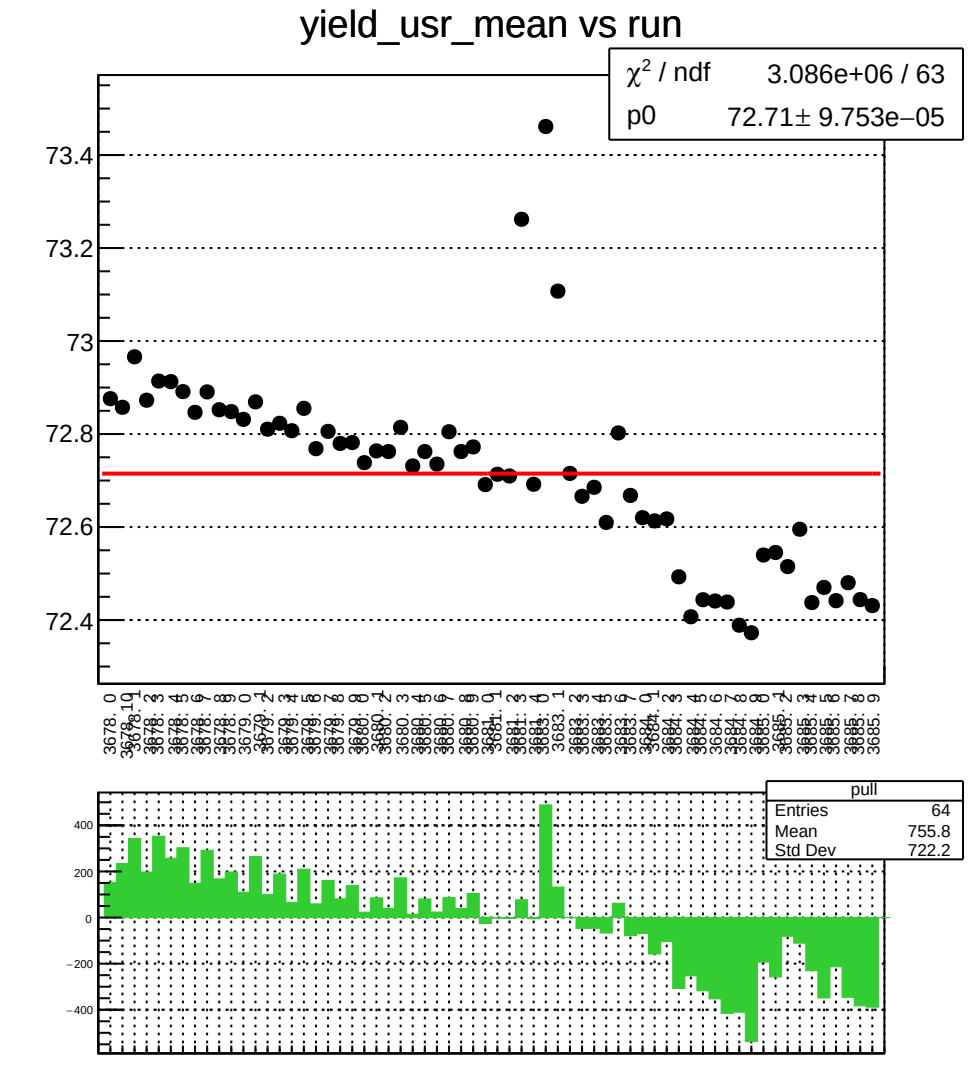

pull1D
Entries 64
Mean −0.0012
Std Dev 0.9968

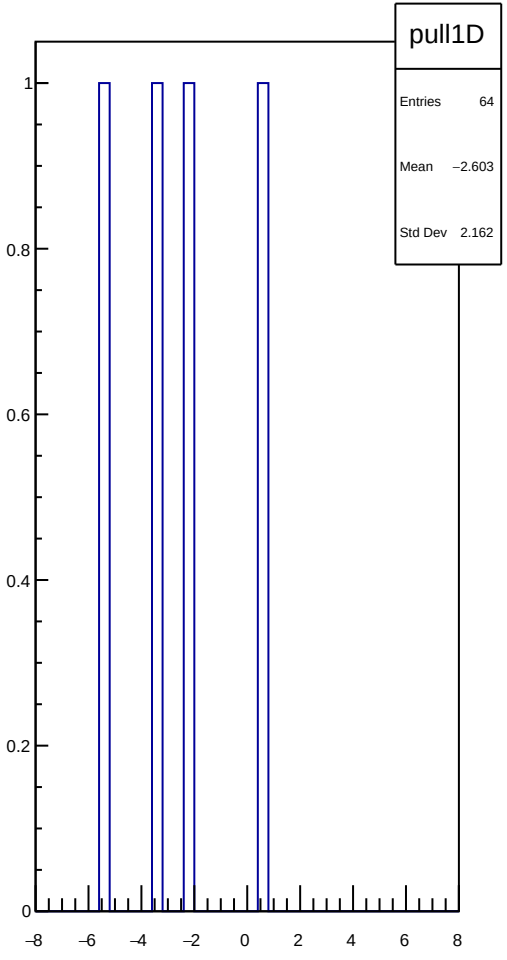

cor_dsr_rms vs run
χ² / ndf 1.313e+04 / 63
p0 598.2 ± 0.5462
1400
1300
1200
1100
1000
900
800
700
600
500

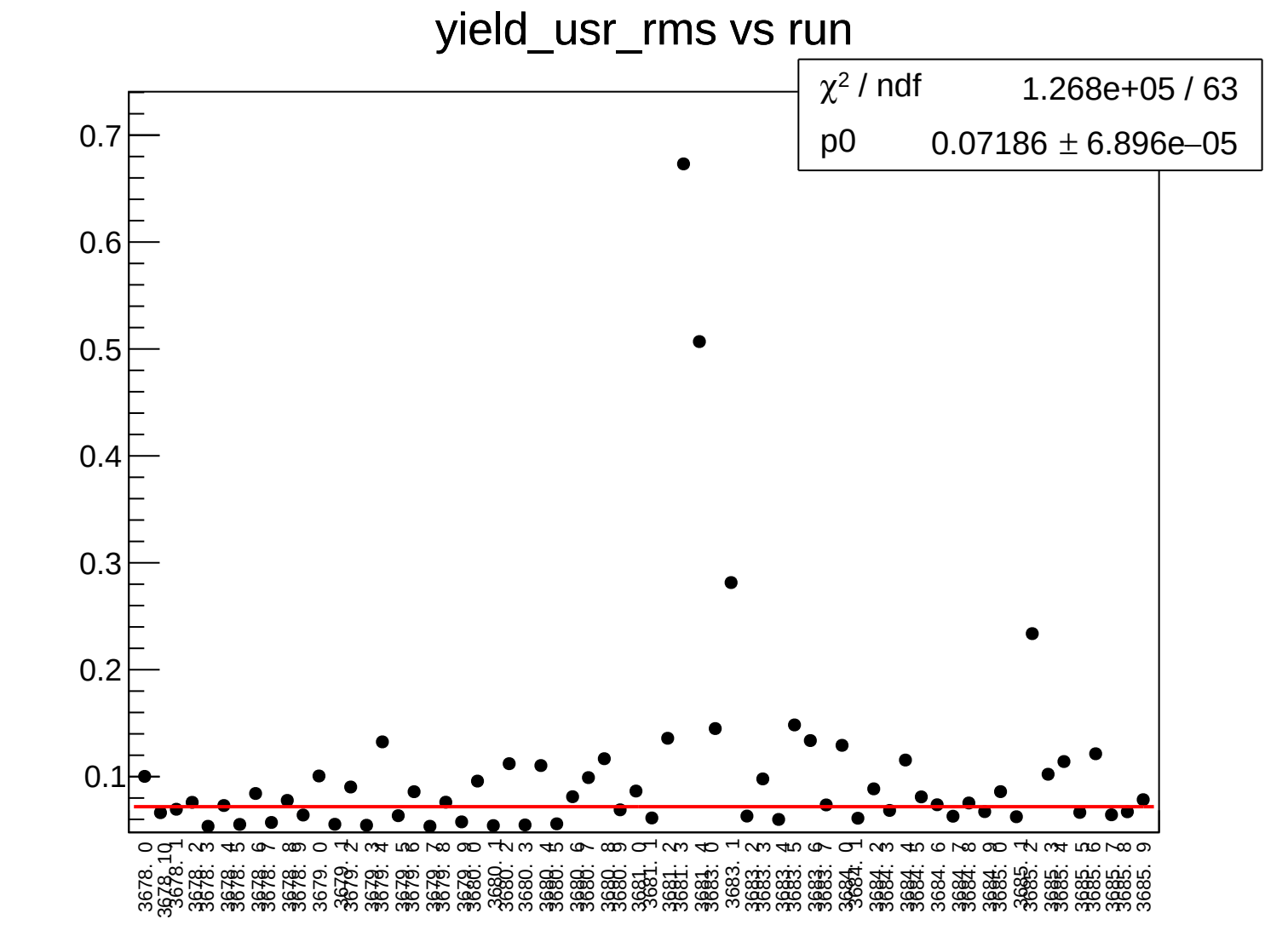

yield_usl_mean vs run
χ² / ndf 2.043e+06 / 63
p0 77.72 ± 0.0001696
78.2
78
77.8
77.6
77.4
77.2
pull
Entries 64
Mean 374.4
Std Dev 339.4
400
300
200
100
0
−100
−200
−300
−400

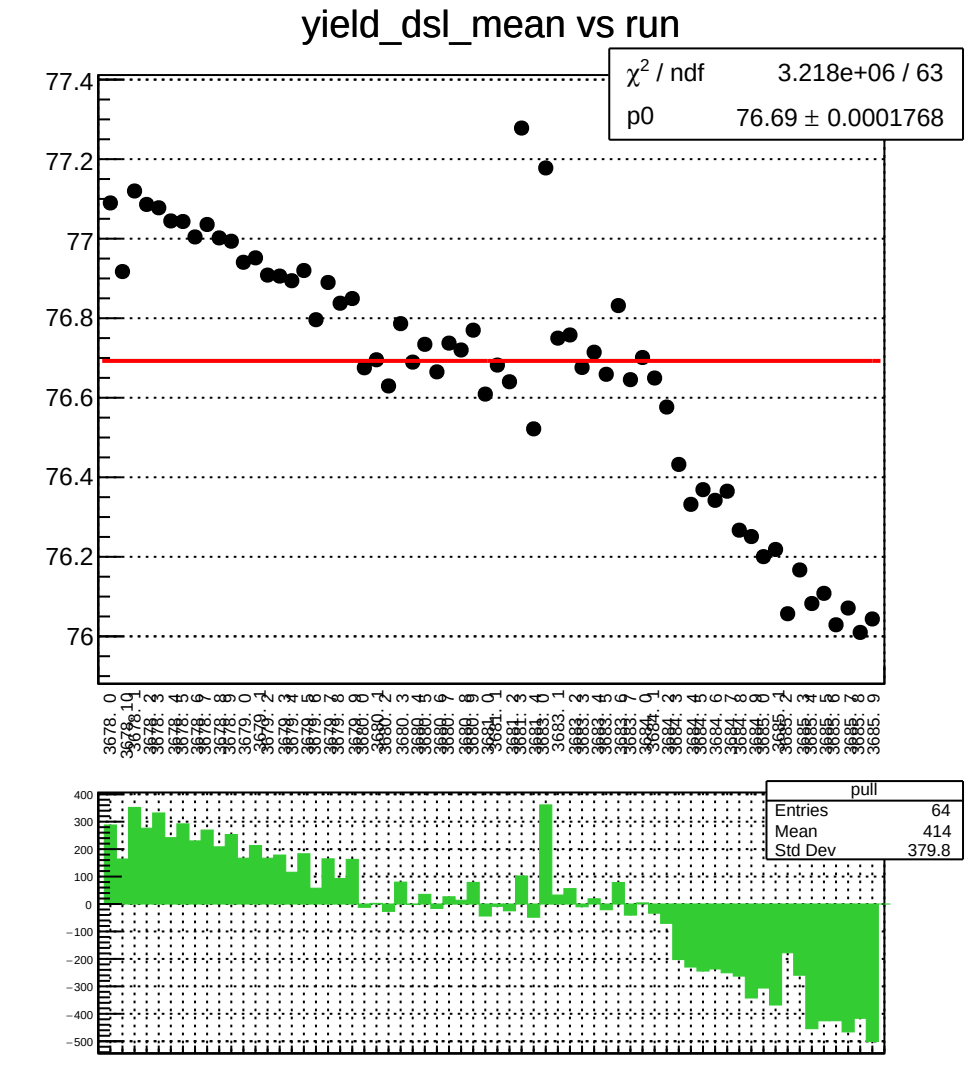

pull1D
Entries 64
Mean −7.406
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

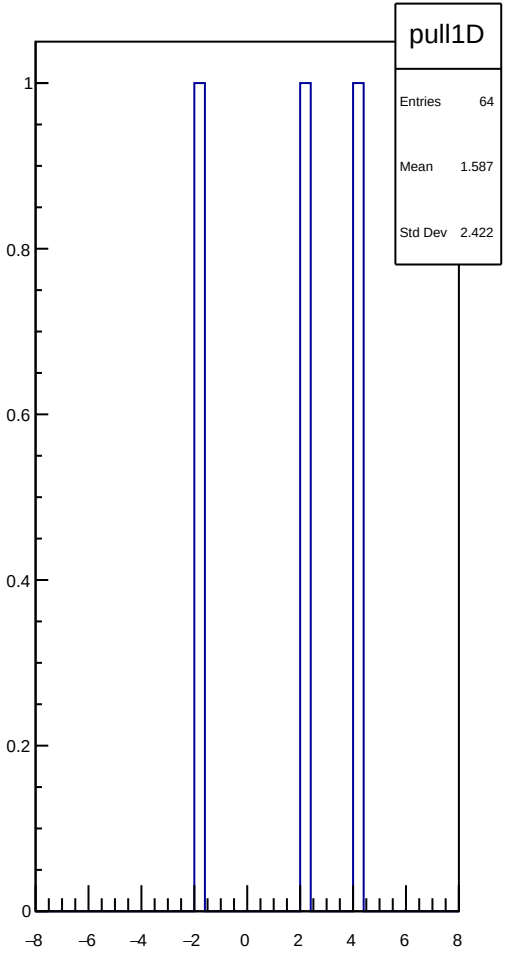

yield_usl_rms vs run
χ² / ndf 5.77e+04 / 63
p0 0.1289 ± 0.0001199
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

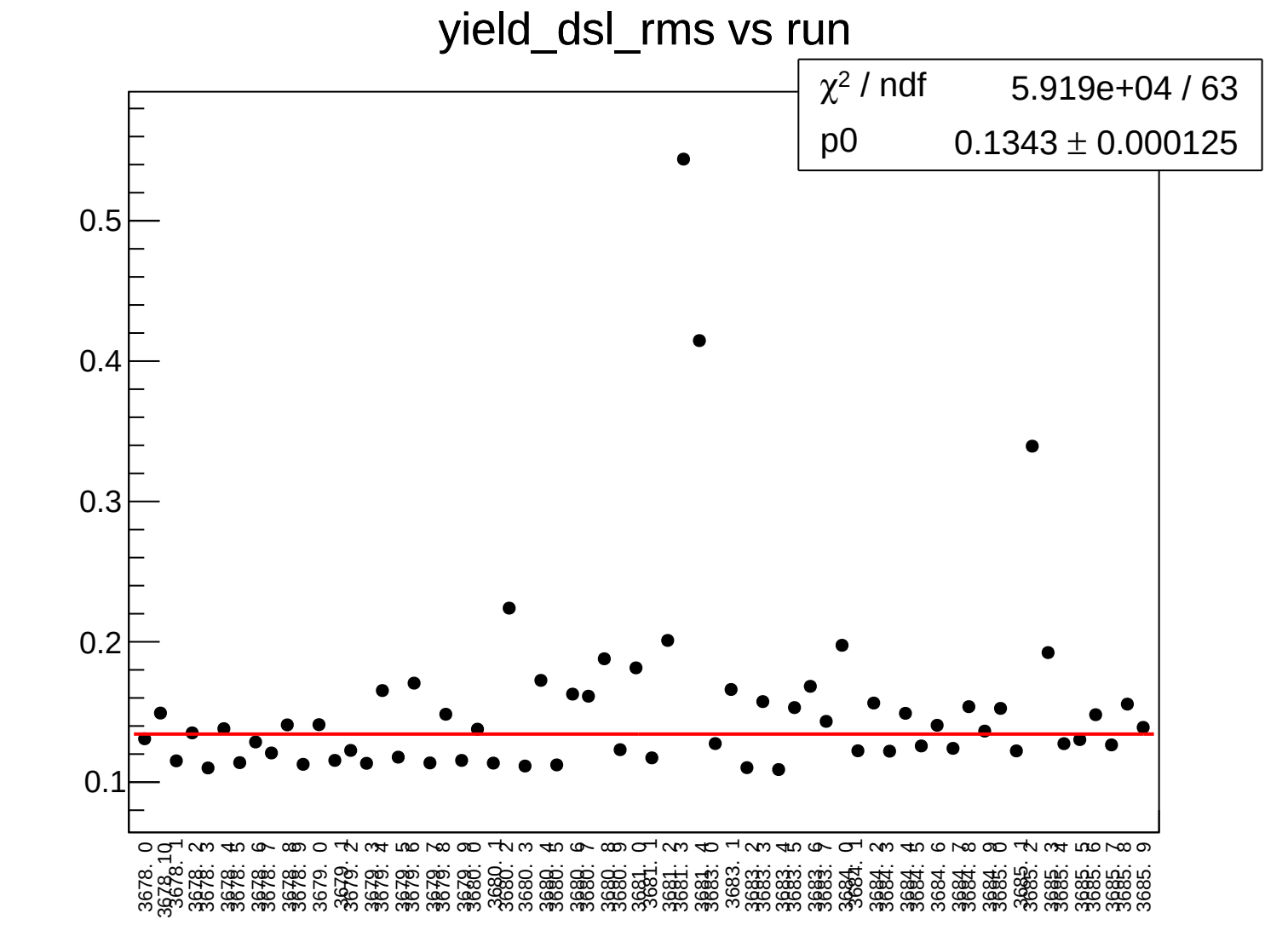

yield_usr_mean vs run
χ² / ndf 3.086e+06 / 63
p0 72.71± 9.753e−05
73.4
73.2
73
72.8
72.6
72.4
pull
Entries 64
Mean 755.8
Std Dev 722.2
400
200
0
−200
−400

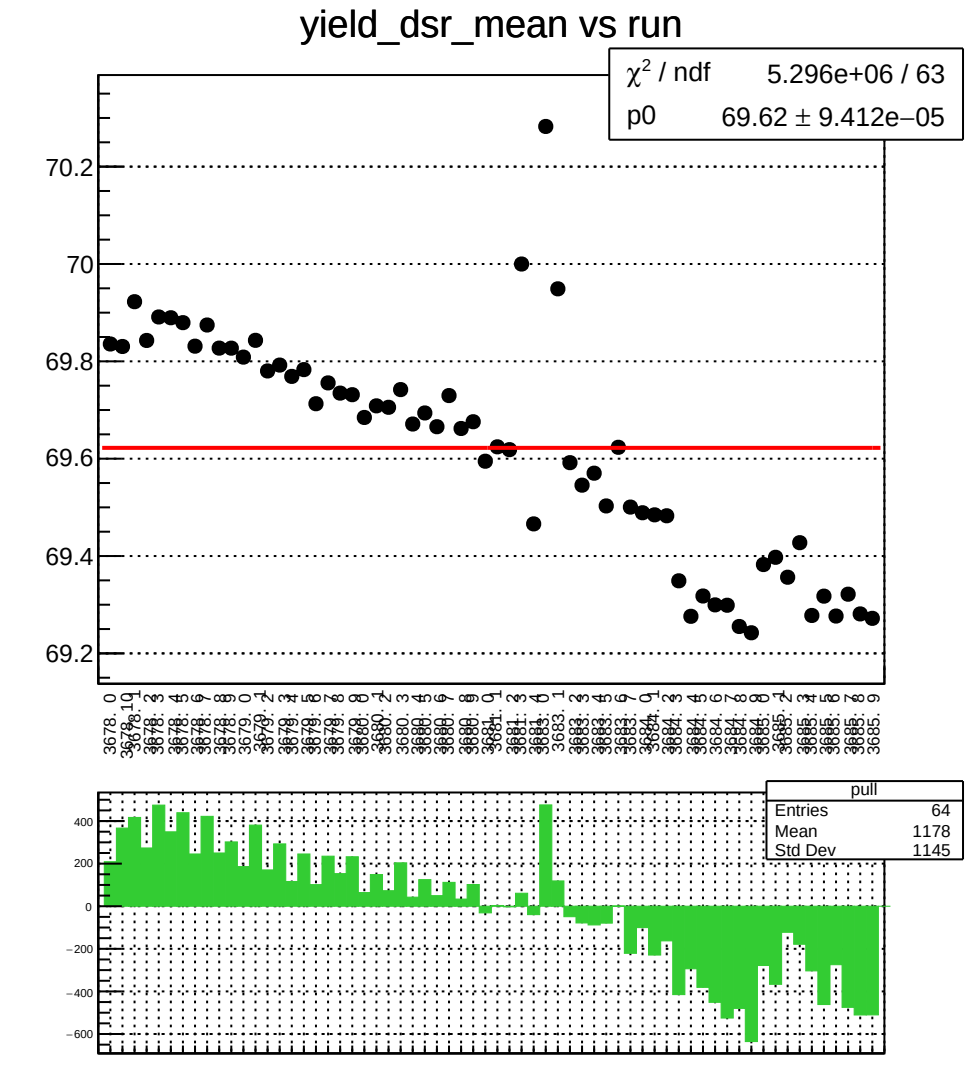

pull1D
Entries 64
Mean −2.603
Std Dev 2.162
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

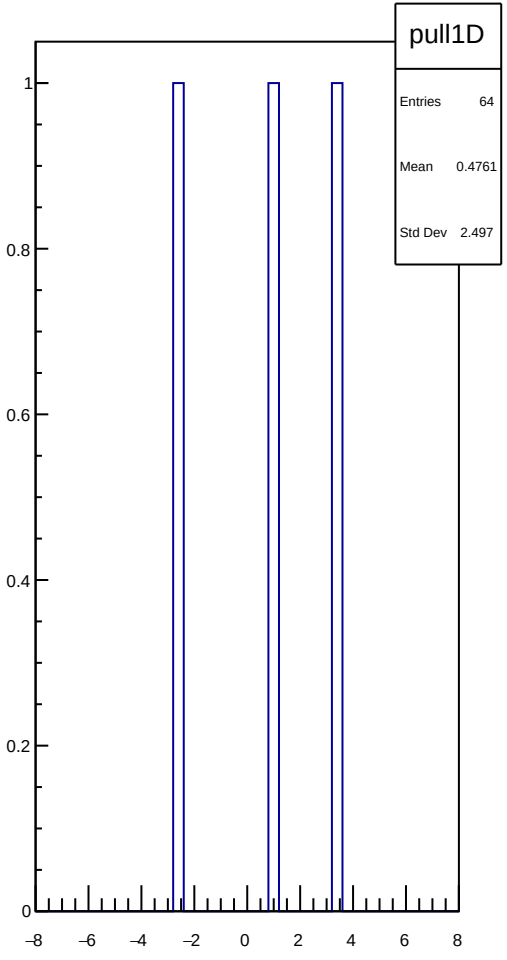

yield_usr_rms vs run
χ² / ndf 1.268e+05 / 63
p0 0.07186 ± 6.896e–05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

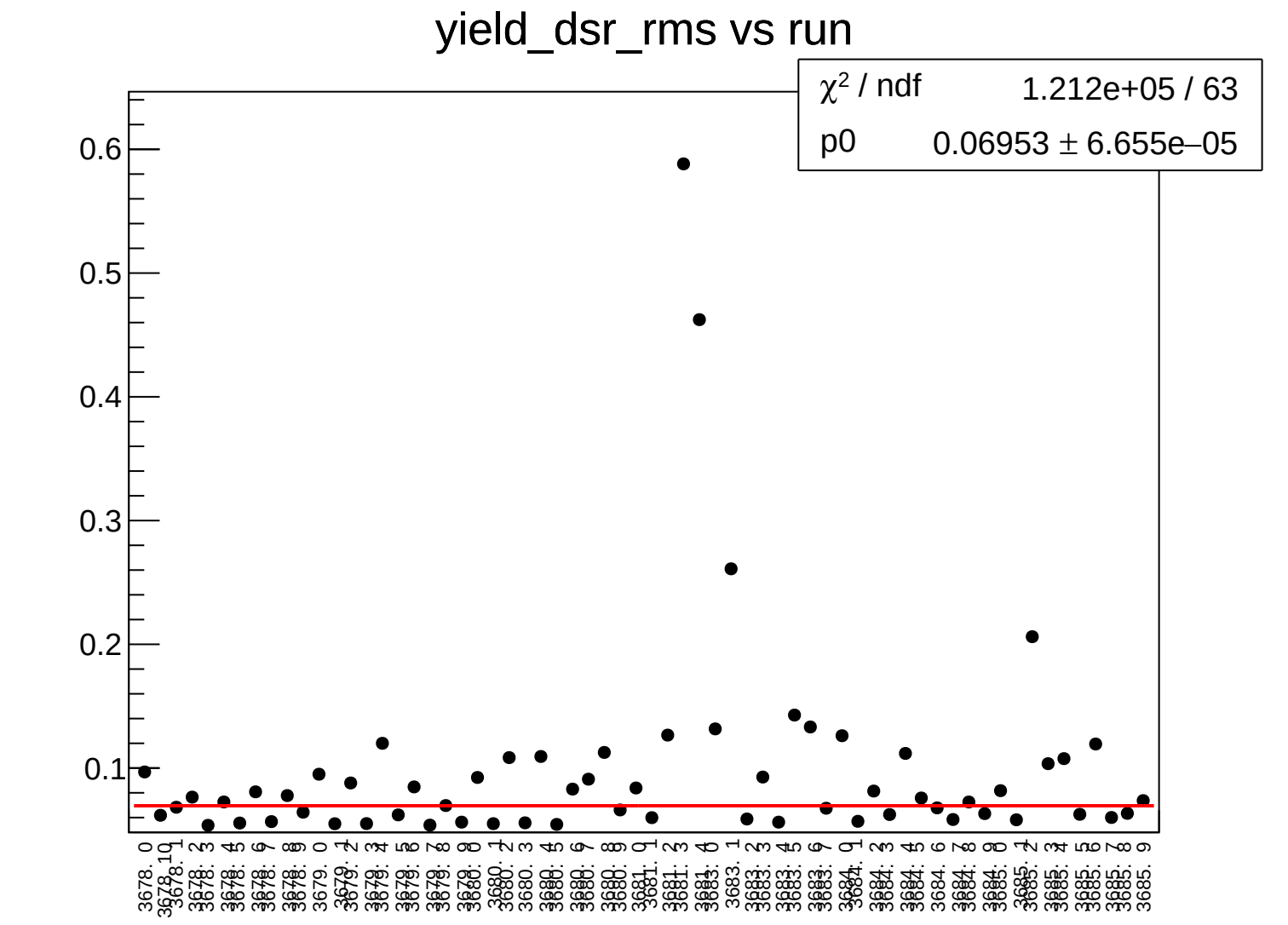

yield_dsl_mean vs run
χ² / ndf 3.218e+06 / 63
p0 76.69 ± 0.0001768
77.4
77.2
77
76.8
76.6
76.4
76.2
76
pull
Entries 64
Mean 414
Std Dev 379.8
400
300
200
100
0
−100
−200
−300
−400
−500

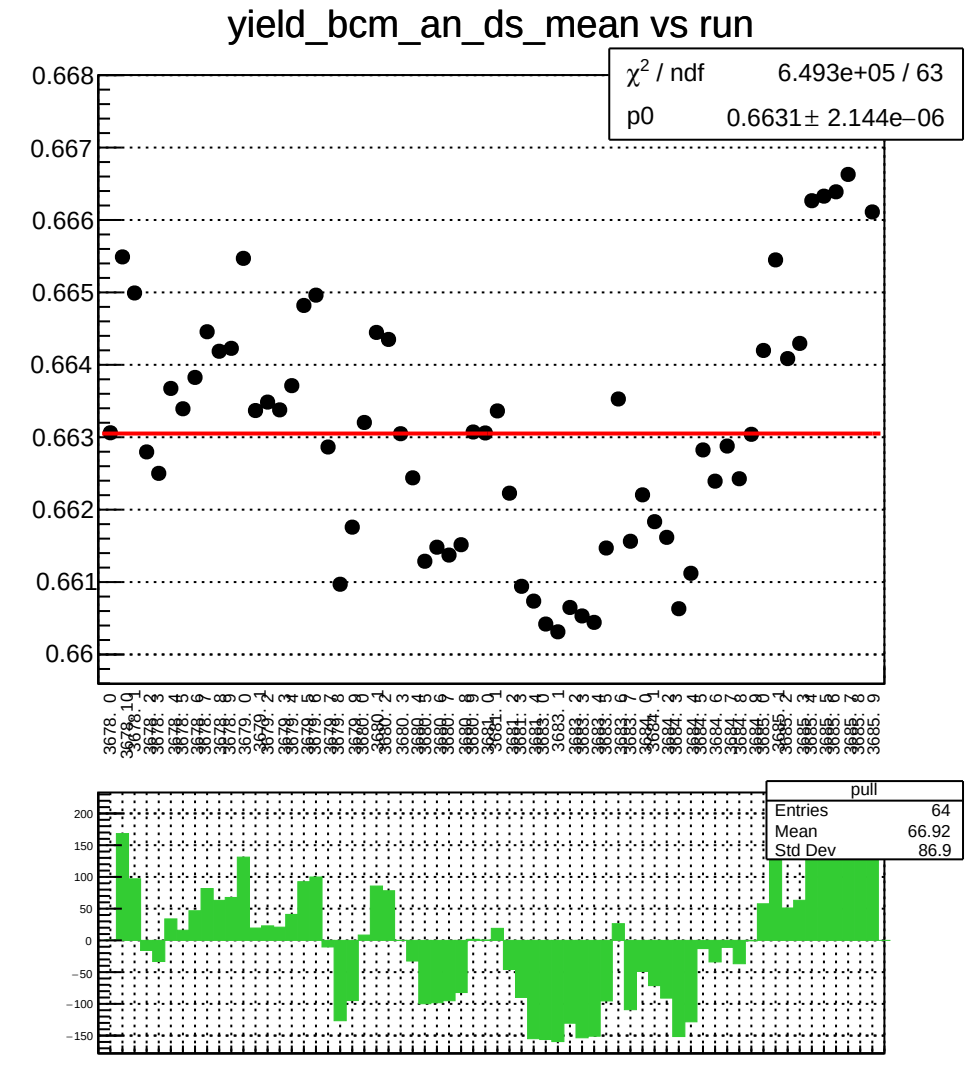

pull1D
Entries 64
Mean 1.587
Std Dev 2.422
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

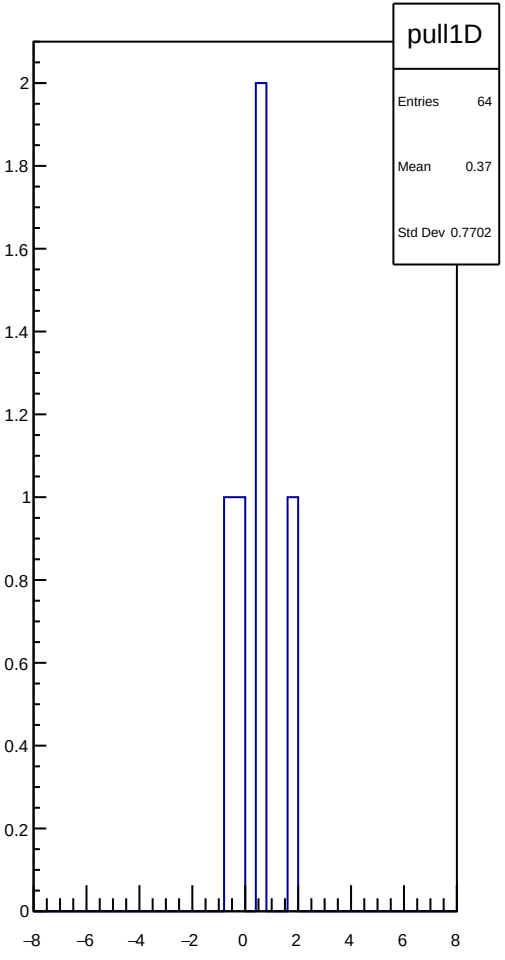

yield_dsl_rms vs run
$\chi^2$ / ndf 5.919e+04 / 63
p0 0.1343 ± 0.000125
0.5
0.4
0.3
0.2
0.1

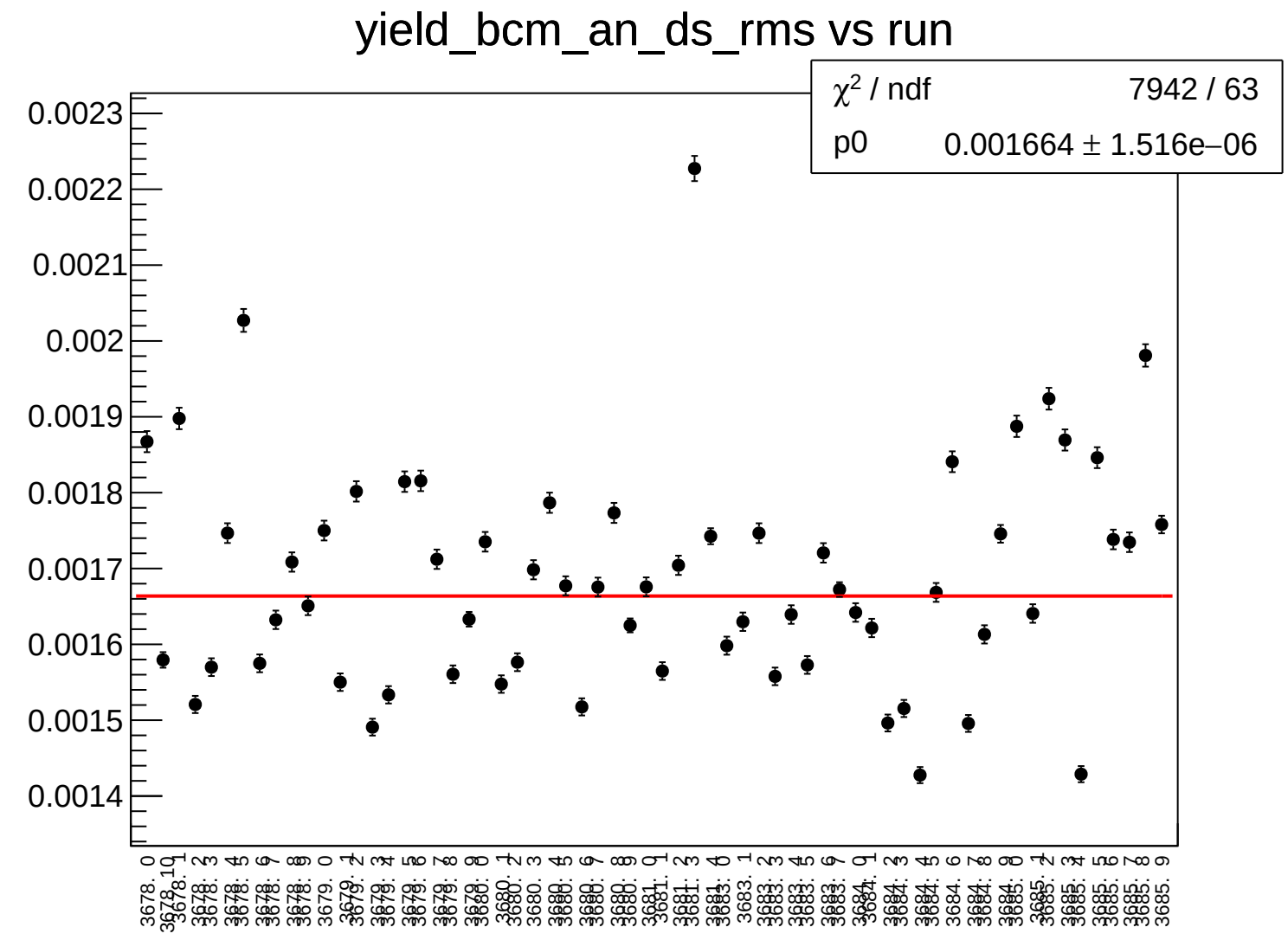

yield_dsr_mean vs run
χ² / ndf 5.296e+06 / 63
p0 69.62 ± 9.412e−05
70.2
70
69.8
69.6
69.4
69.2
pull
Entries 64
Mean 1178
Std Dev 1145
400
200
0
−200
−400
−600

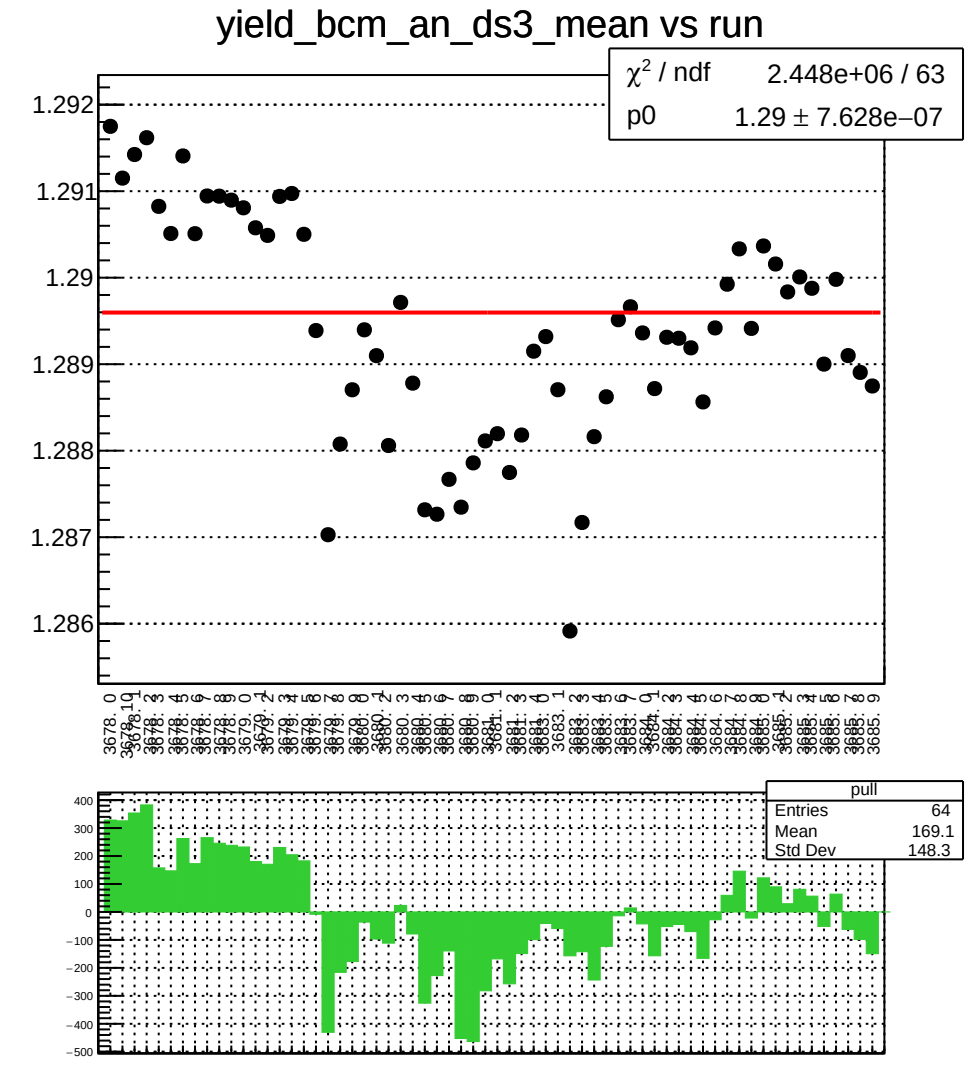

pull1D
Entries 64
Mean 0.4761
Std Dev 2.497
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

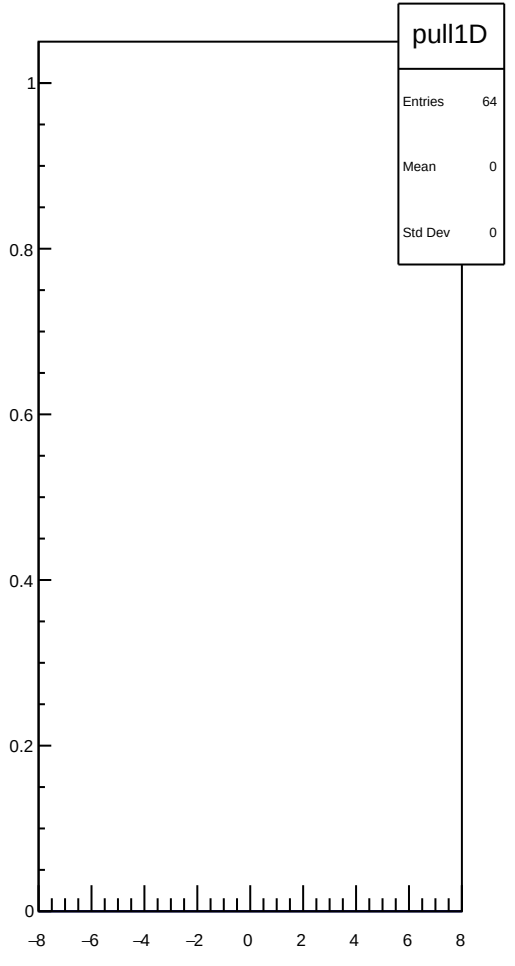

yield_dsr_rms vs run
χ² / ndf 1.212e+05 / 63
p0 0.06953 ± 6.655e−05
0.6
0.5
0.4
0.3
0.2
0.1

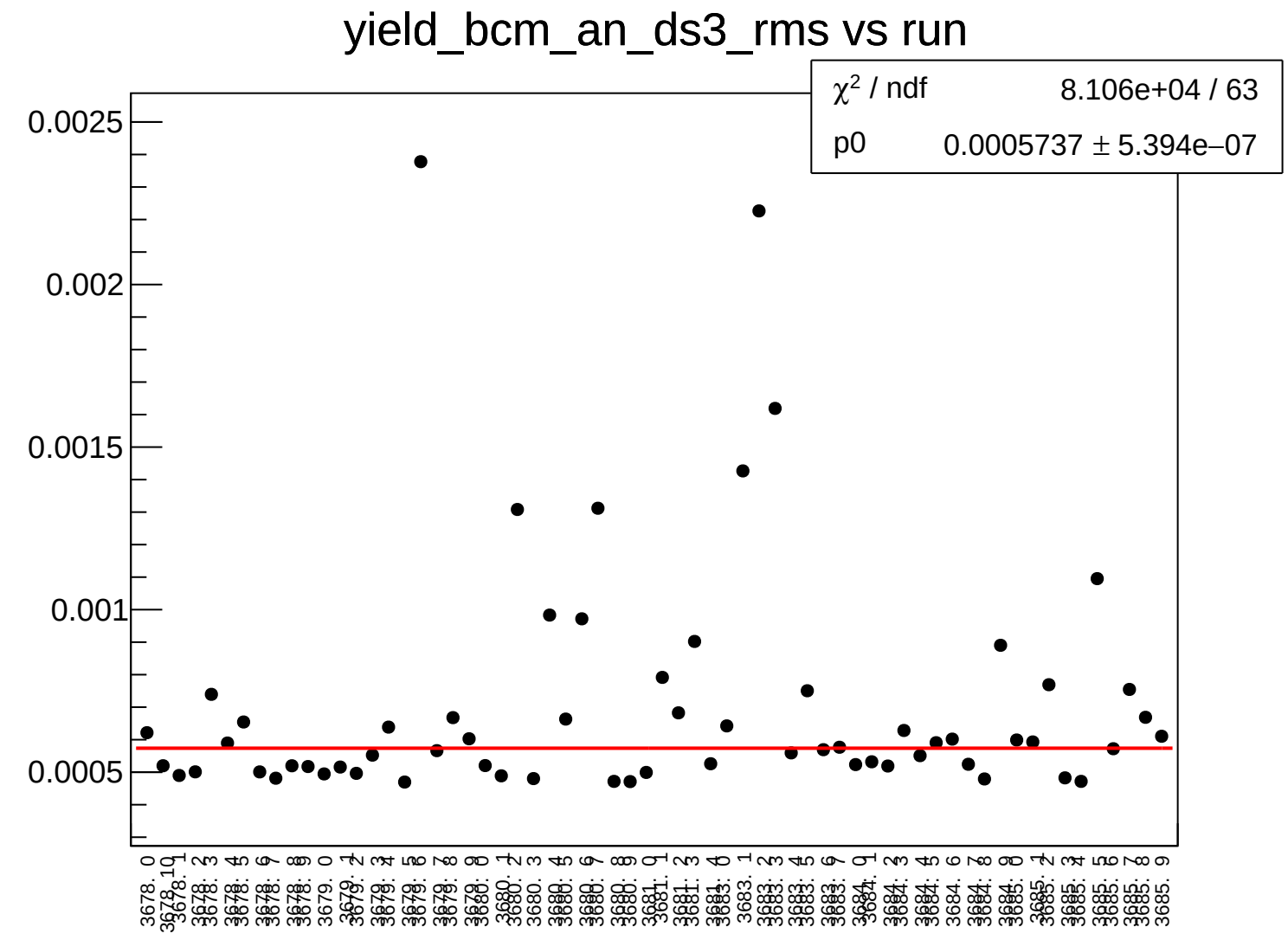

yield_bcm_an_ds_mean vs run
χ² / ndf 6.493e+05 / 63
p0 0.6631 ± 2.144e−06
pull
Entries 64
Mean 66.92
Std Dev 86.9

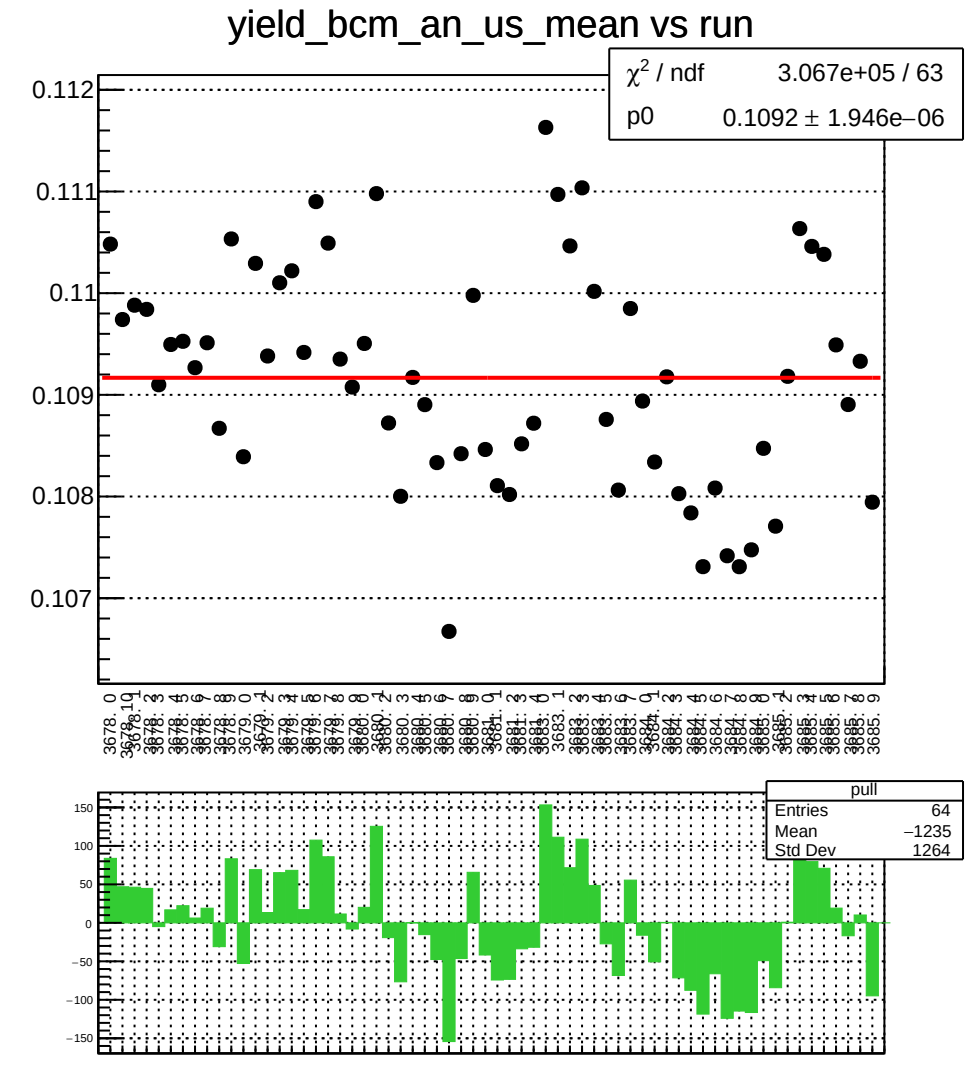

pull1D
Entries 64
Mean 0.37
Std Dev 0.7702

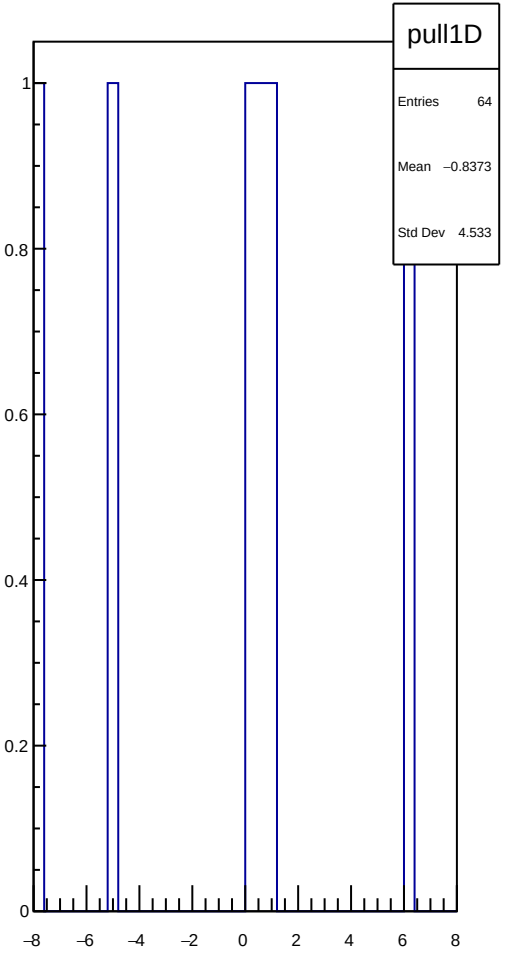

yield_bcm_an_ds_rms vs run
χ² / ndf 7942 / 63
p0 0.001664 ± 1.516e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

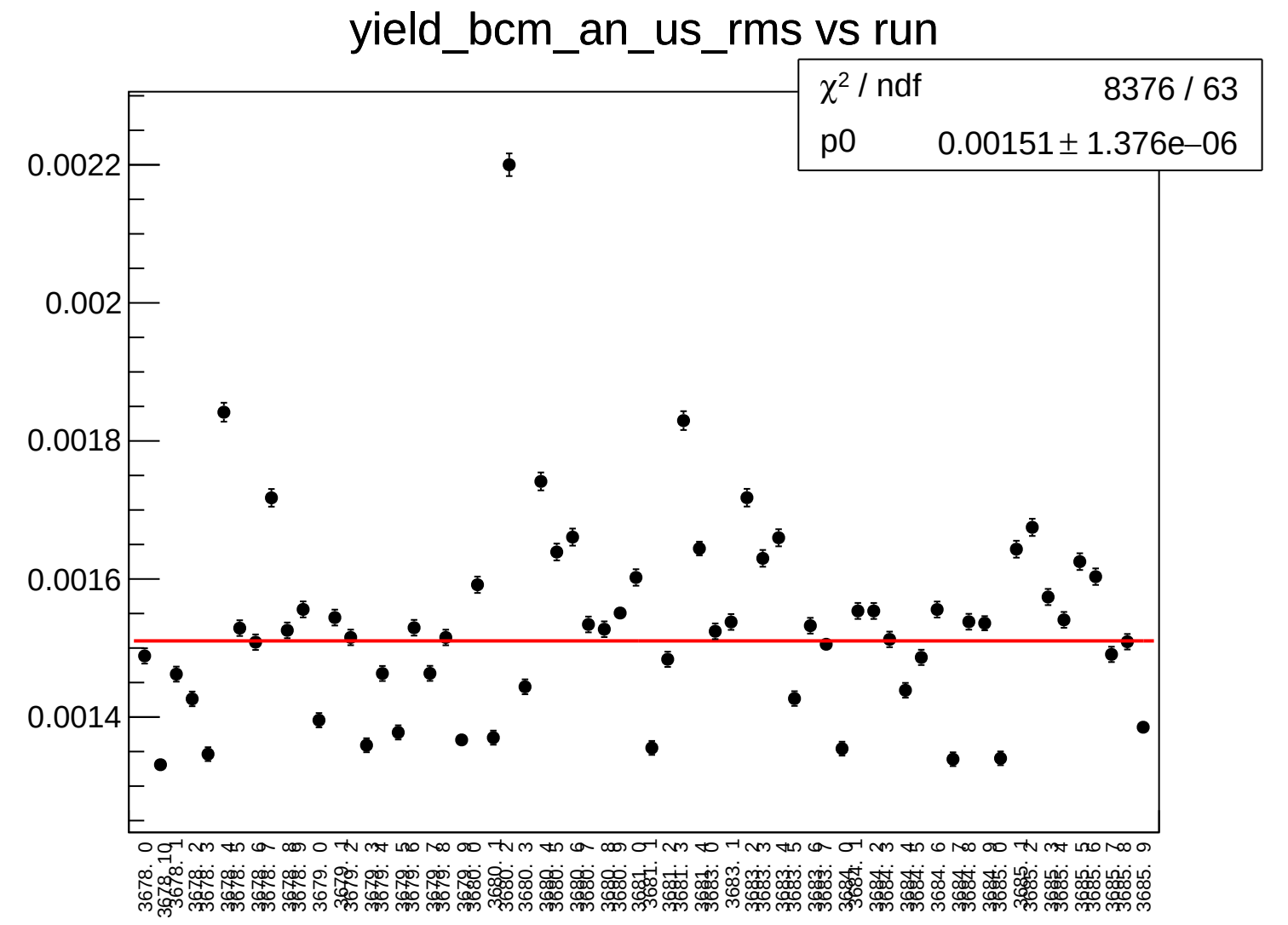

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.448e+06 / 63
p0 1.29 ± 7.628e−07
1.292
1.291
1.29
1.289
1.288
1.287
1.286
pull
Entries 64
Mean 169.1
Std Dev 148.3
400
300
200
100
0
−100
−200
−300
−400
−500

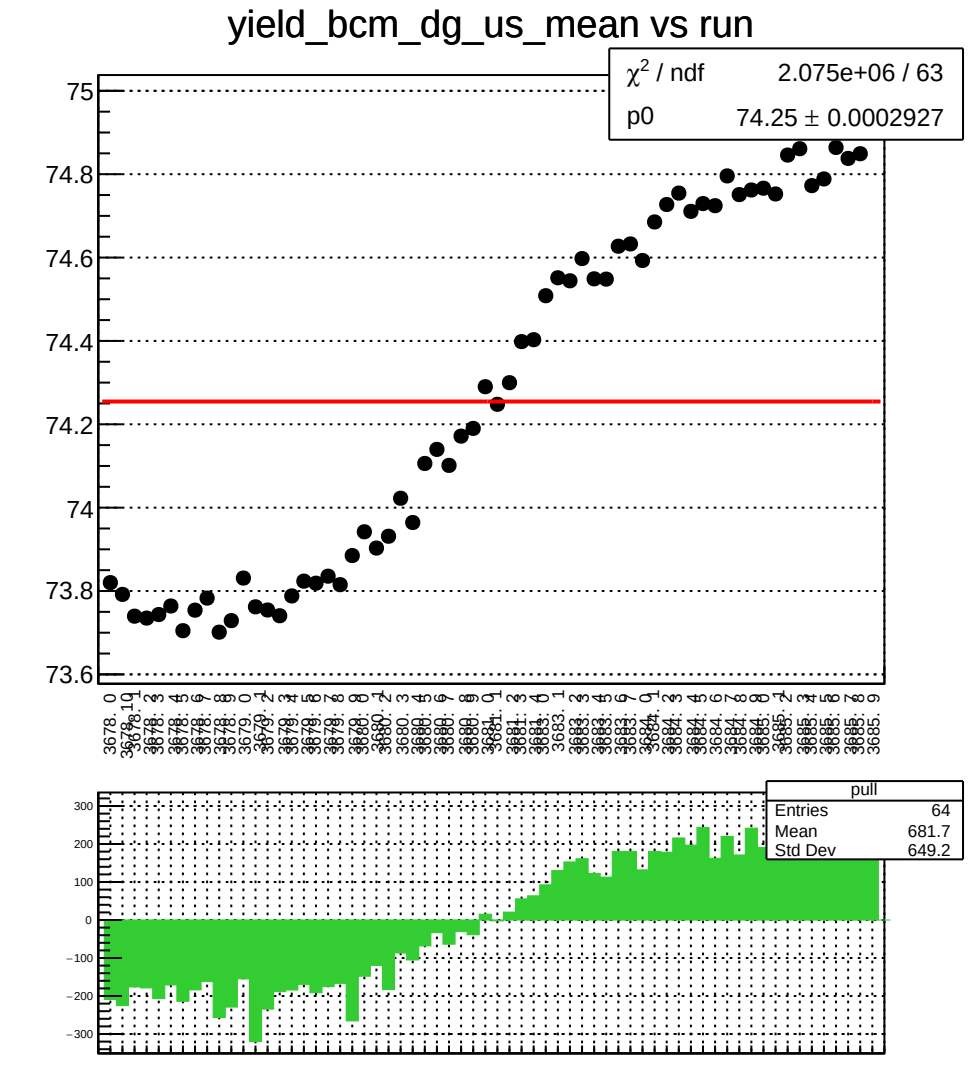

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

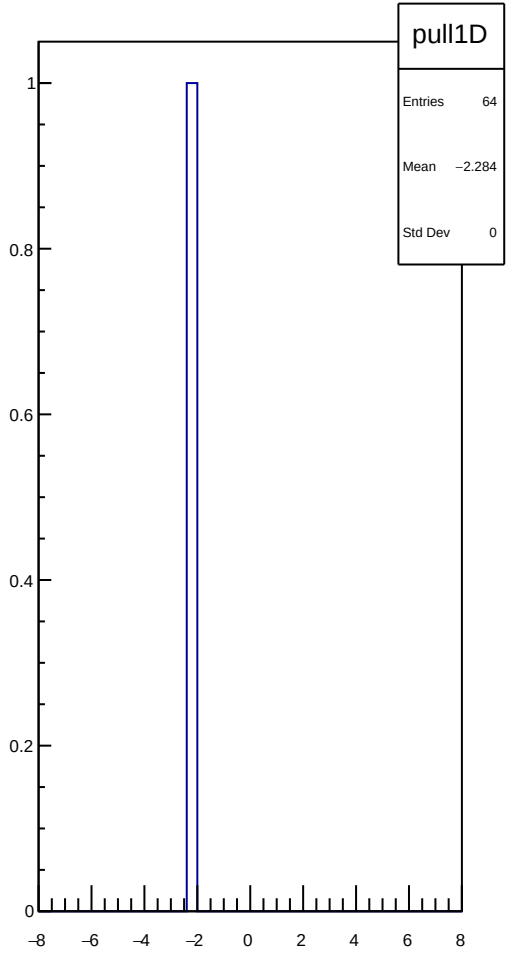

yield_bcm_an_ds3_rms vs run
χ² / ndf 8.106e+04 / 63
p0 0.0005737 ± 5.394e−07
0.0025
0.002
0.0015
0.001
0.0005

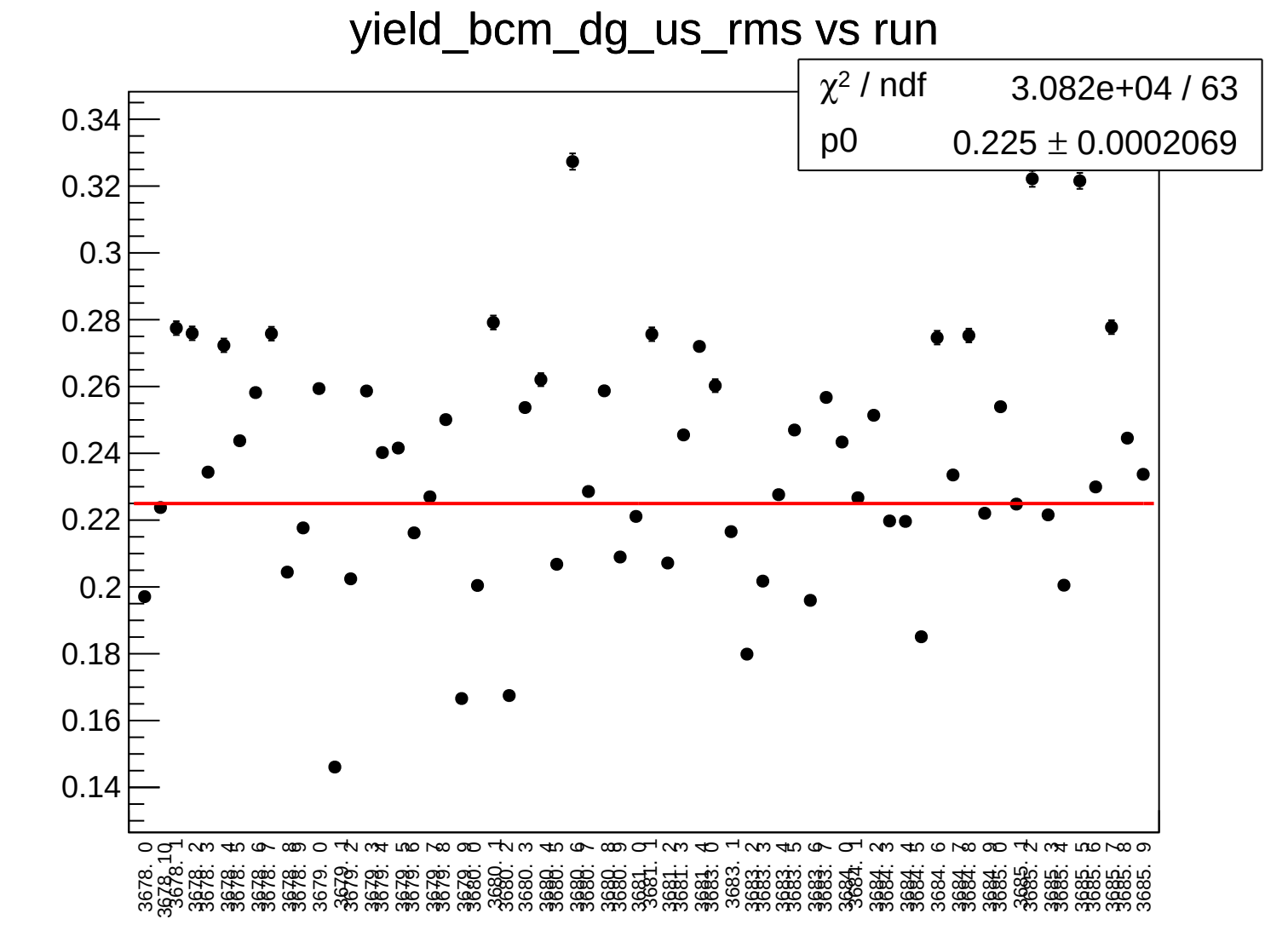

yield_bcm_an_us_mean vs run
χ² / ndf 3.067e+05 / 63
p0 0.1092 ± 1.946e−06
0.112
0.111
0.11
0.109
0.108
0.107
pull
Entries 64
Mean −1235
Std Dev 1264
150
100
50
0
−50
−100
−150

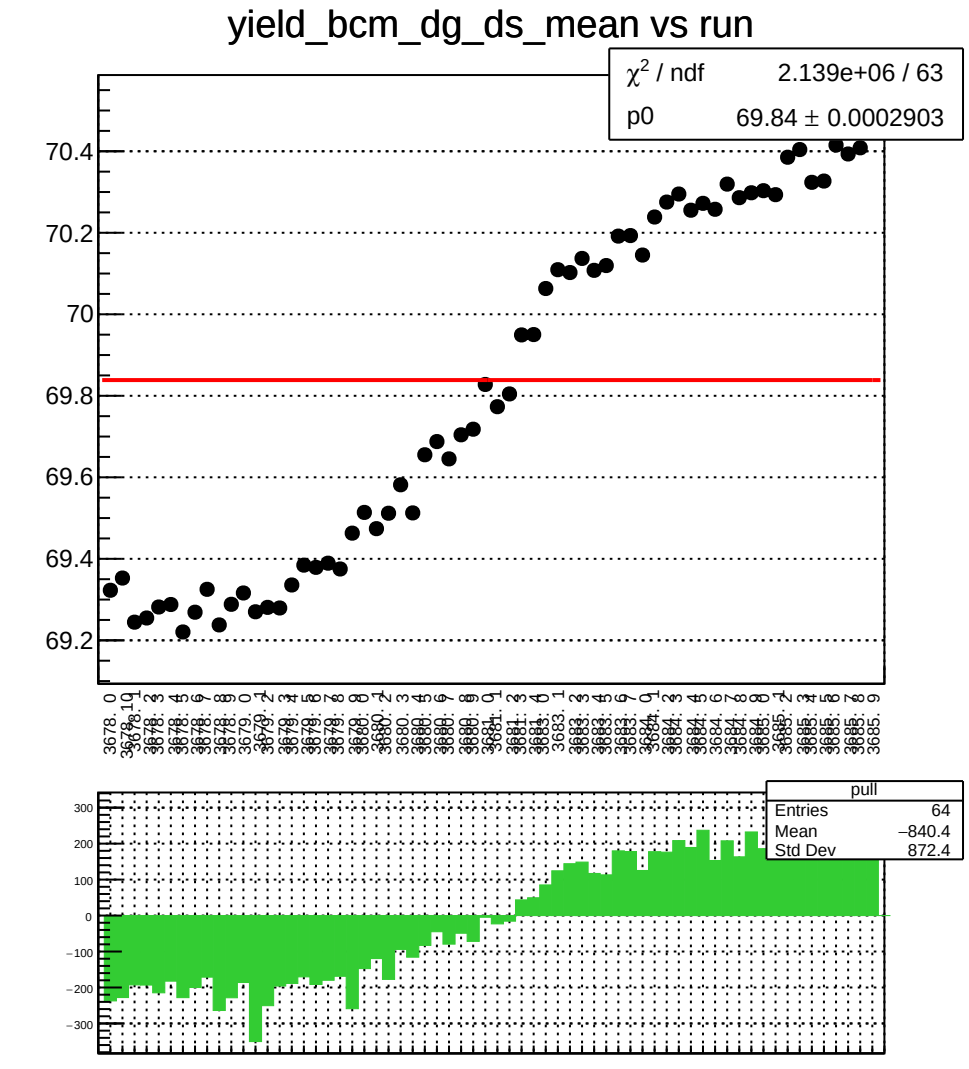

pull1D
Entries 64
Mean −0.8373
Std Dev 4.533
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

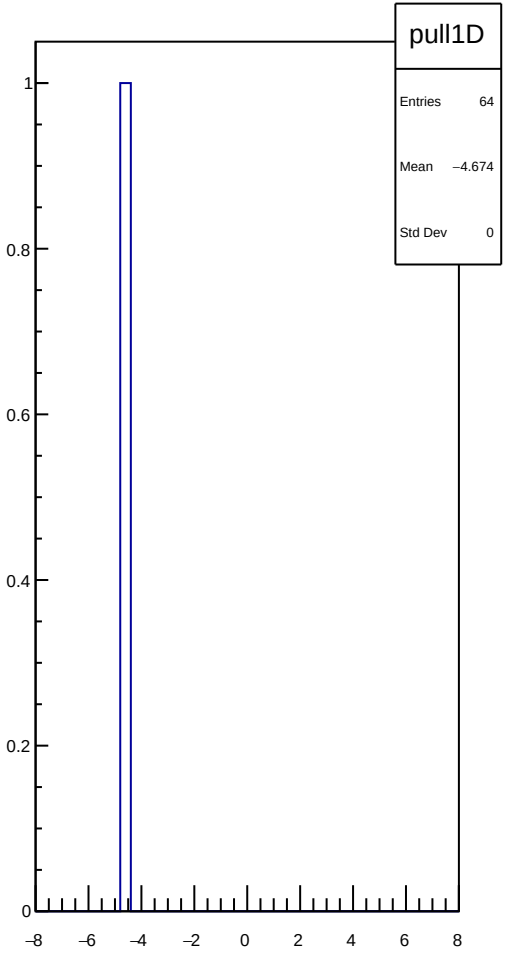

yield_bcm_an_us_rms vs run
χ² / ndf 8376 / 63
p0 0.00151 ± 1.376e–06
0.0022
0.002
0.0018
0.0016
0.0014

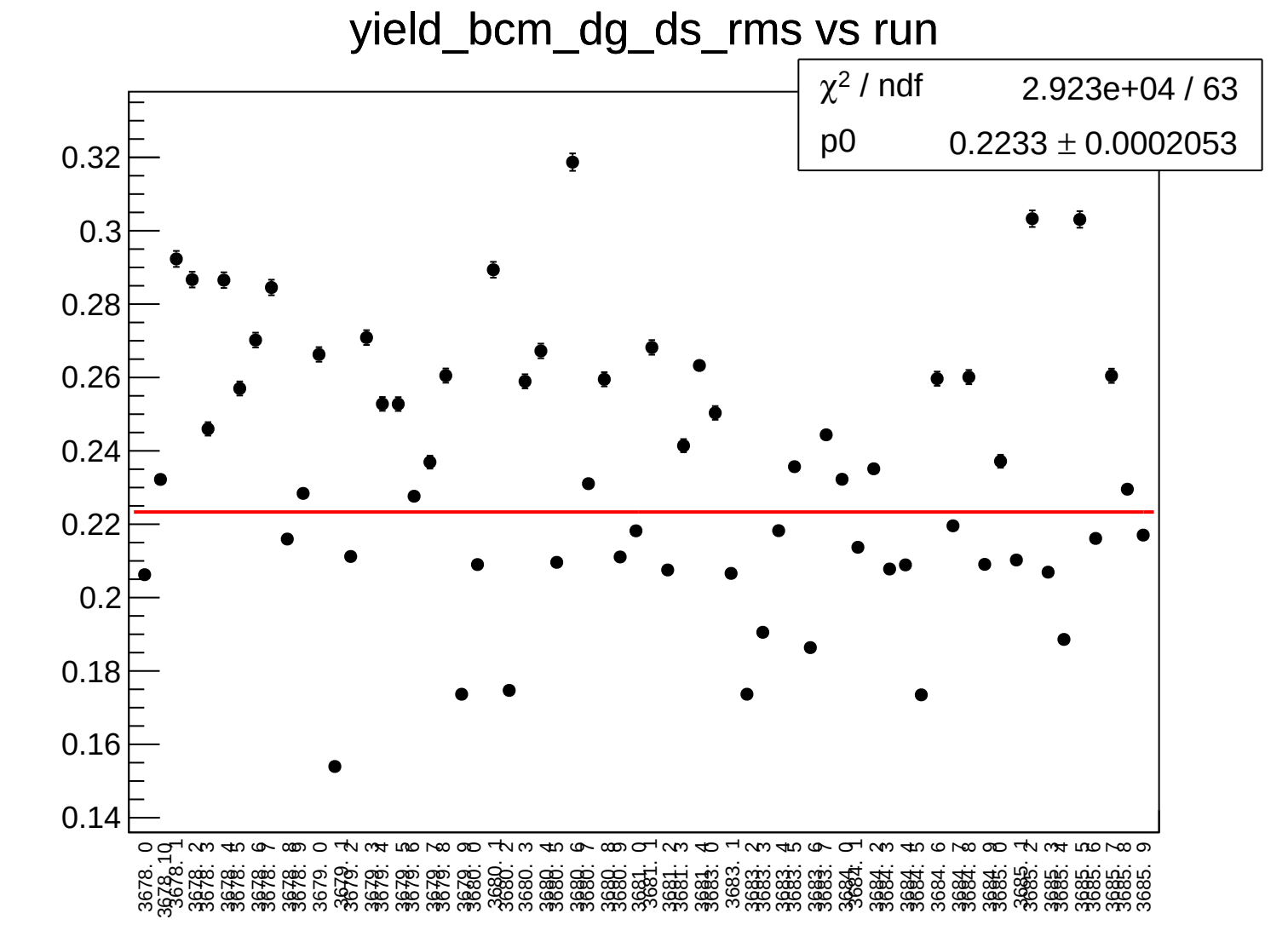

yield_bcm_dg_us_mean vs run
χ² / ndf 2.075e+06 / 63
p0 74.25 ± 0.0002927
pull
Entries 64
Mean 681.7
Std Dev 649.2

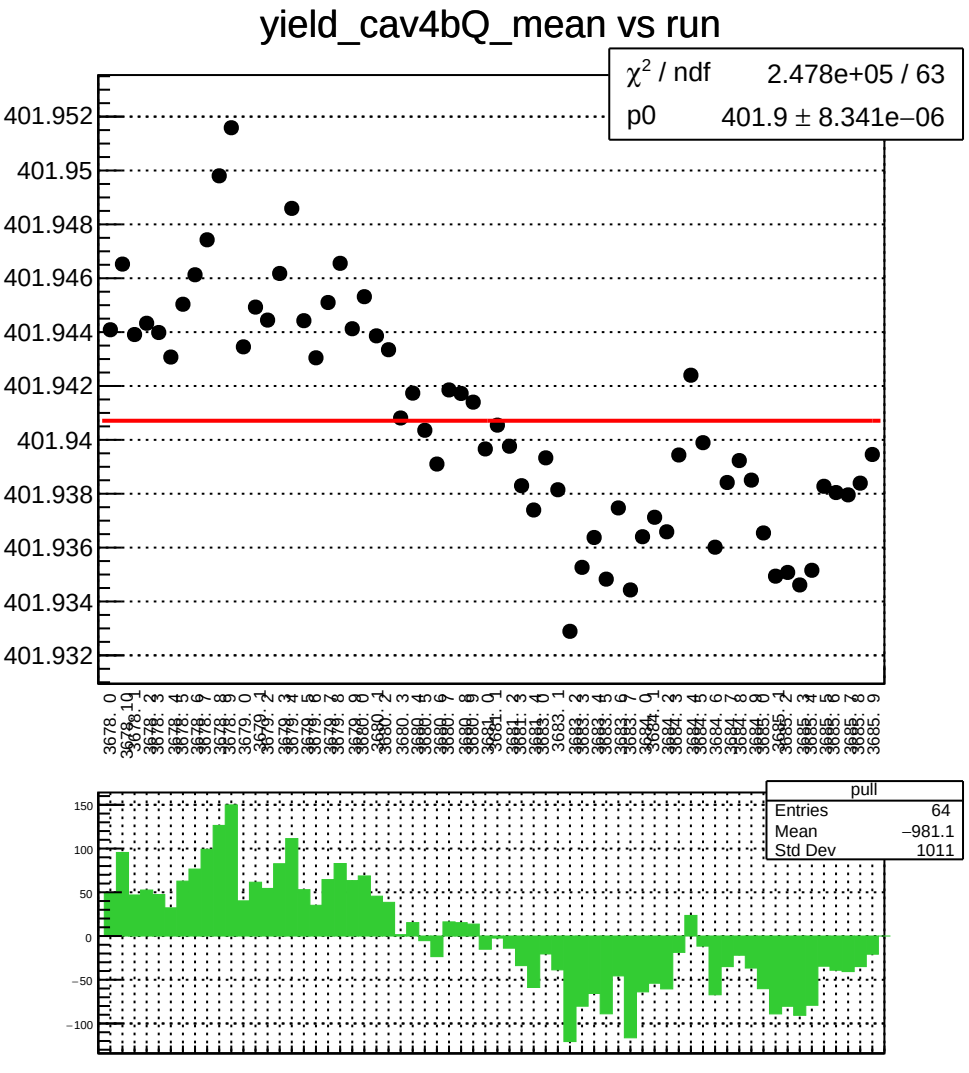

pull1D
Entries 64
Mean −2.284
Std Dev 0

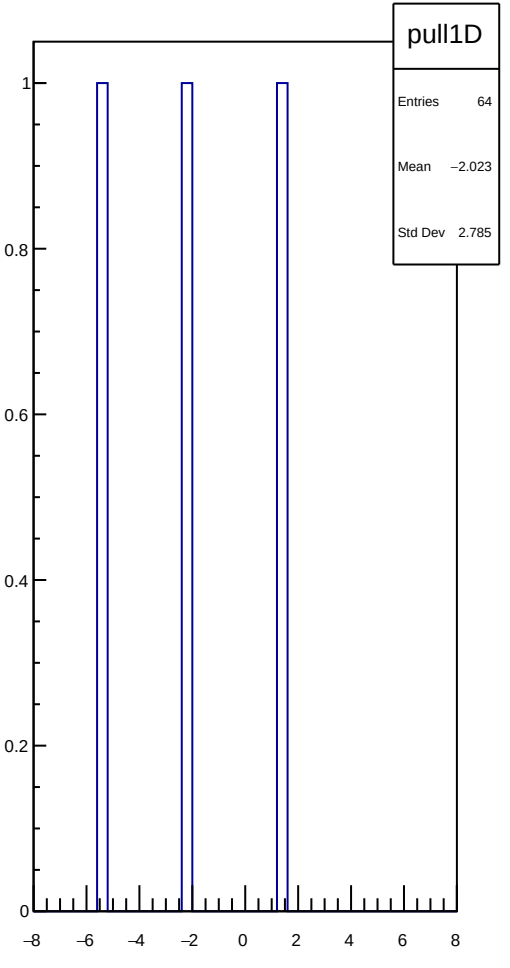

yield_bcm_dg_us_rms vs run
χ² / ndf 3.082e+04 / 63
p0 0.225 ± 0.0002069
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14

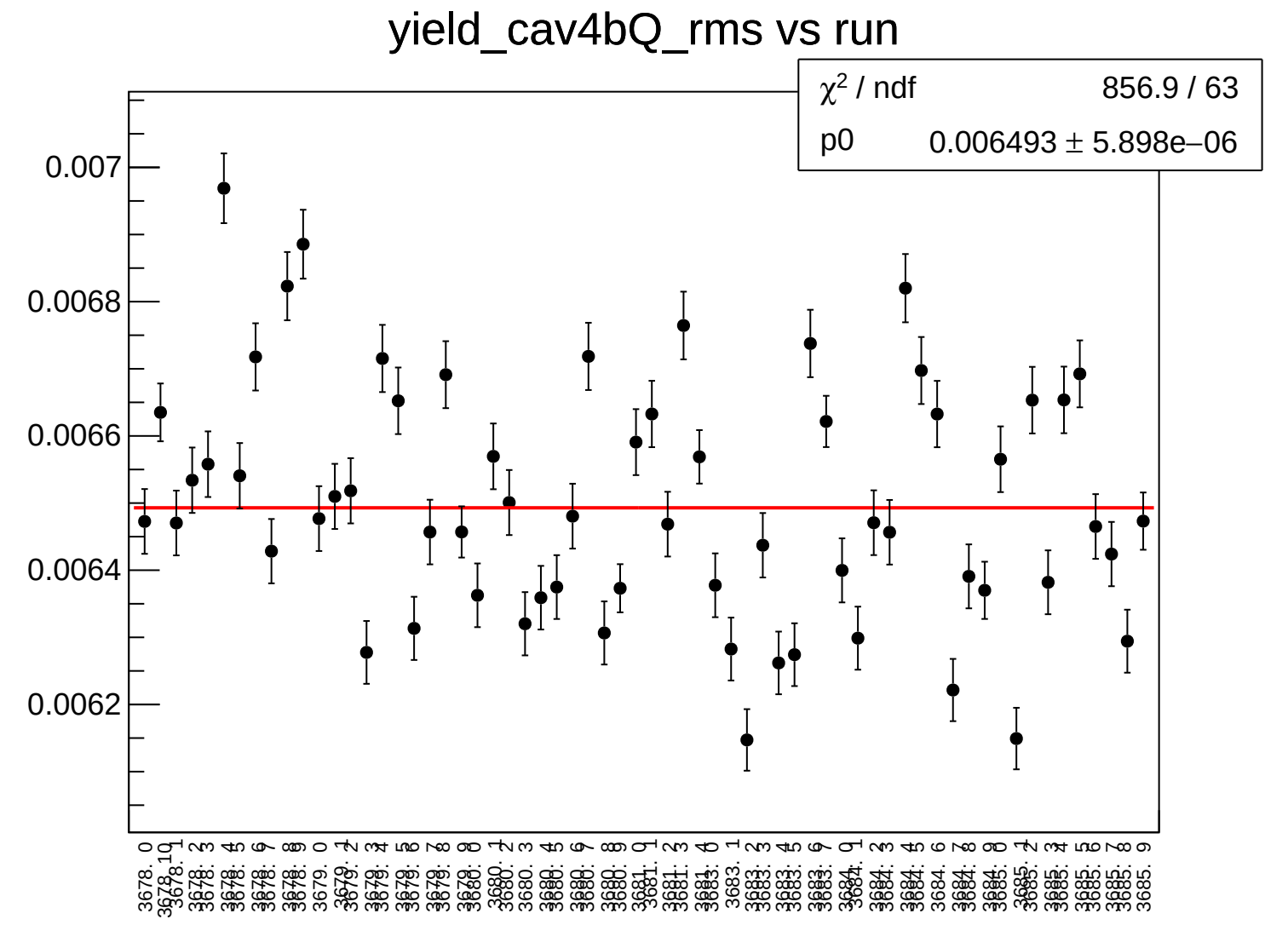

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.139e+06 / 63
p0 69.84 ± 0.0002903
70.4
70.2
70
69.8
69.6
69.4
69.2
pull
Entries 64
Mean −840.4
Std Dev 872.4
300
200
100
0
−100
−200
−300

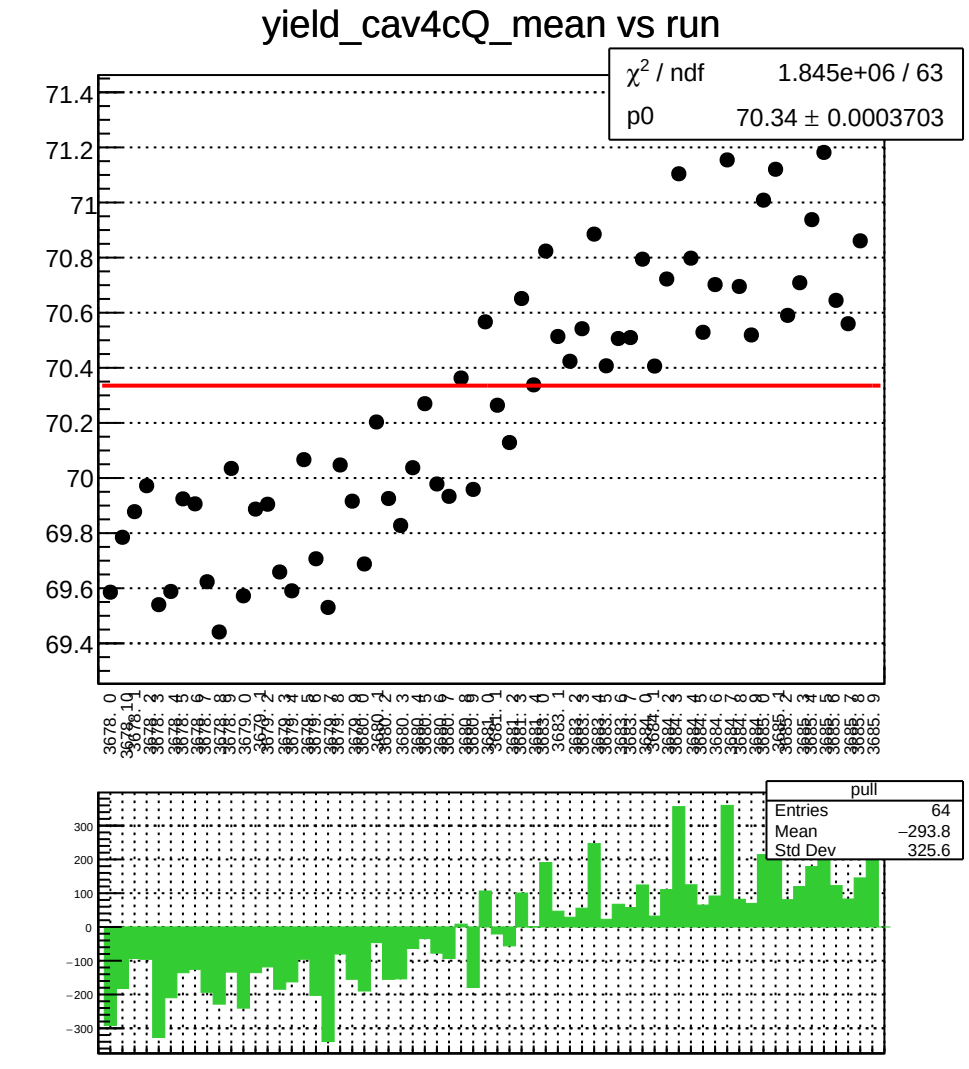

pull1D
Entries 64
Mean −4.674
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

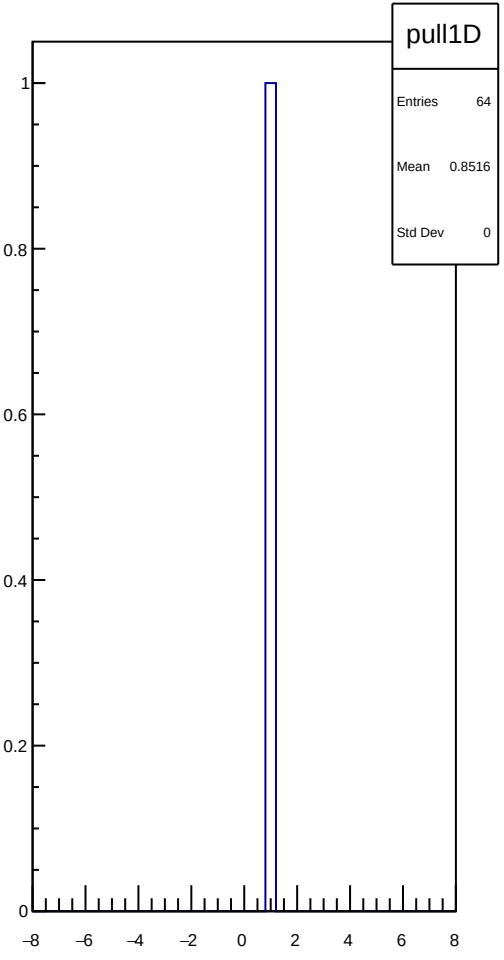

yield_bcm_dg_ds_rms vs run
χ² / ndf 2.923e+04 / 63
p0 0.2233 ± 0.0002053
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14

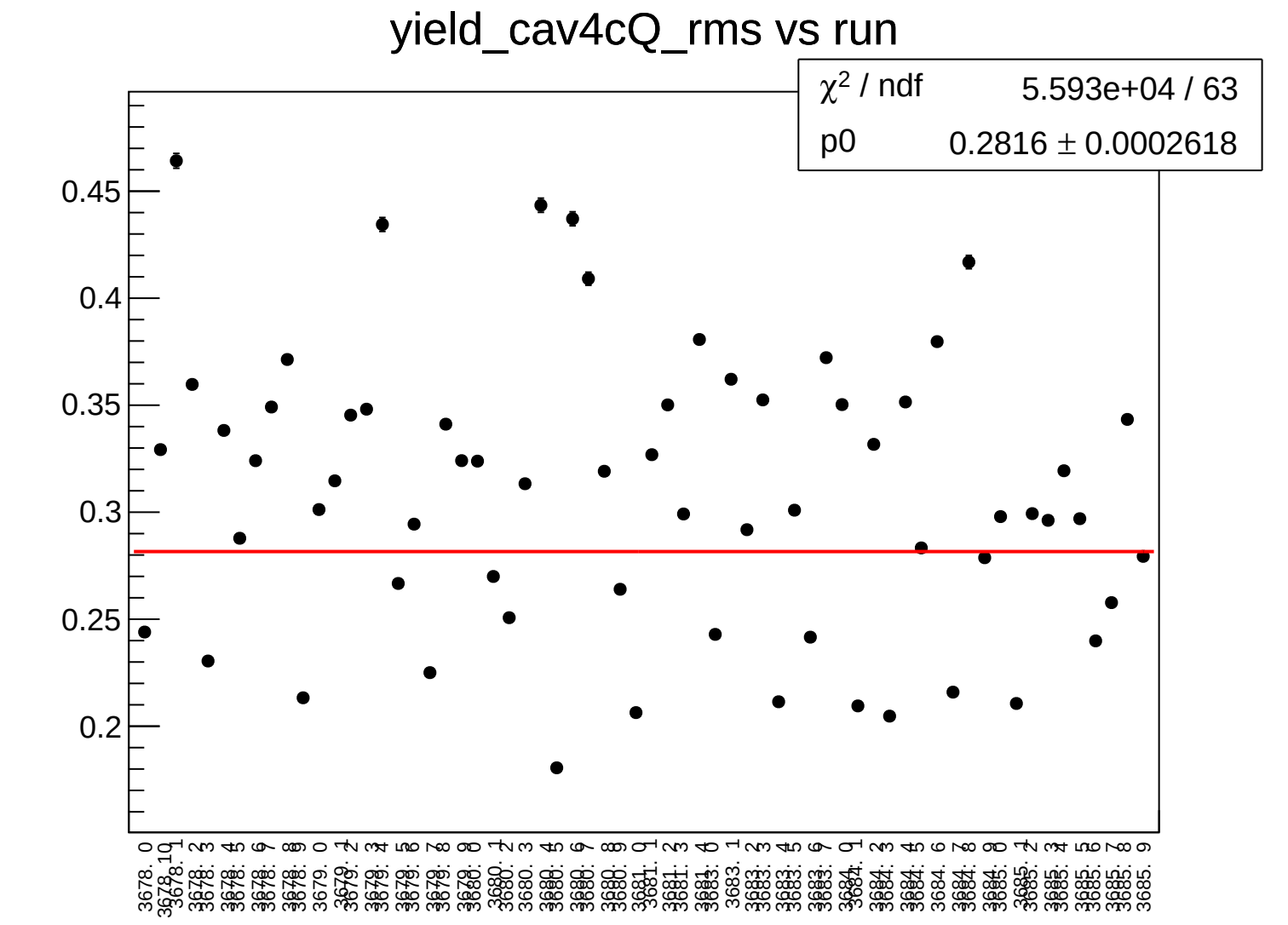

yield_cav4bQ_mean vs run
χ² / ndf 2.478e+05 / 63
p0 401.9 ± 8.341e−06
401.952
401.95
401.948
401.946
401.944
401.942
401.94
401.938
401.936
401.934
401.932
pull
Entries 64
Mean −981.1
Std Dev 1011
150
100
50
0
−50
−100

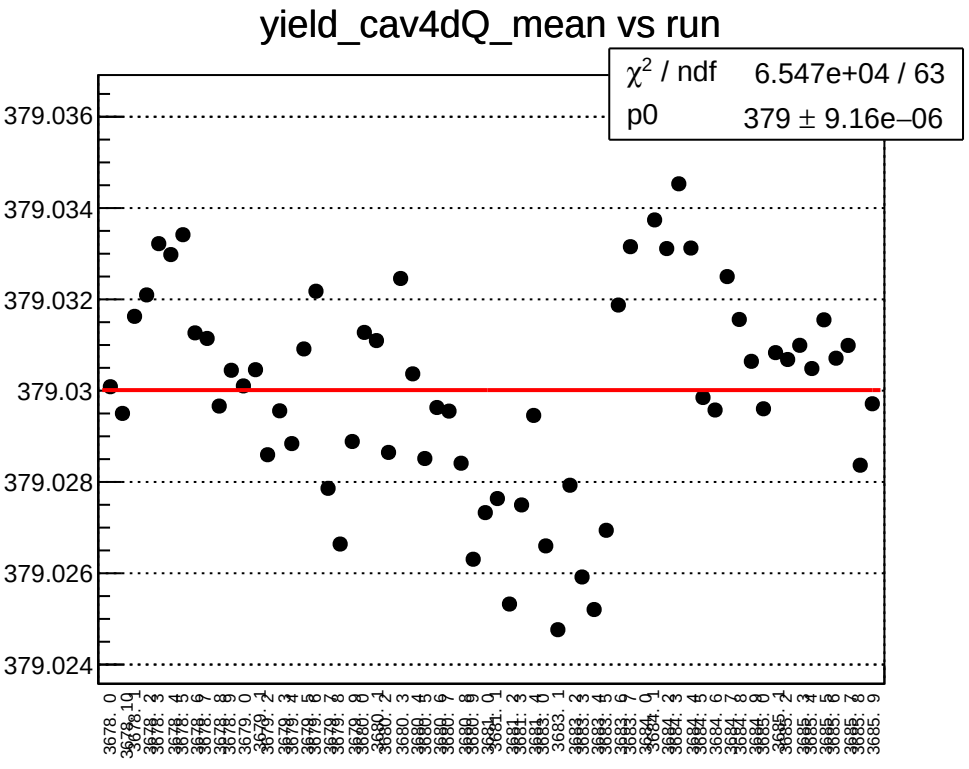

pull1D
Entries 64
Mean −2.023
Std Dev 2.785
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

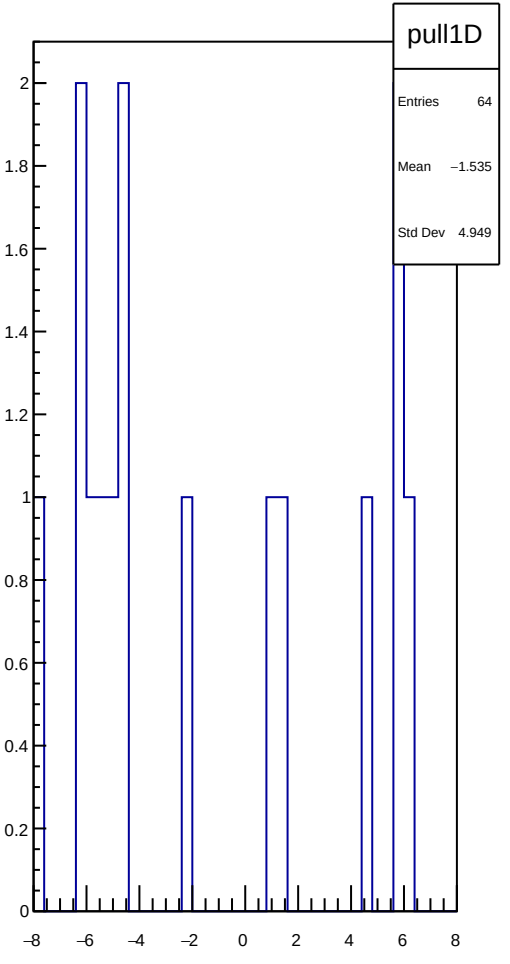

yield_cav4bQ_rms vs run
χ² / ndf 856.9 / 63
p0 0.006493 ± 5.898e−06
0.007
0.0068
0.0066
0.0064
0.0062

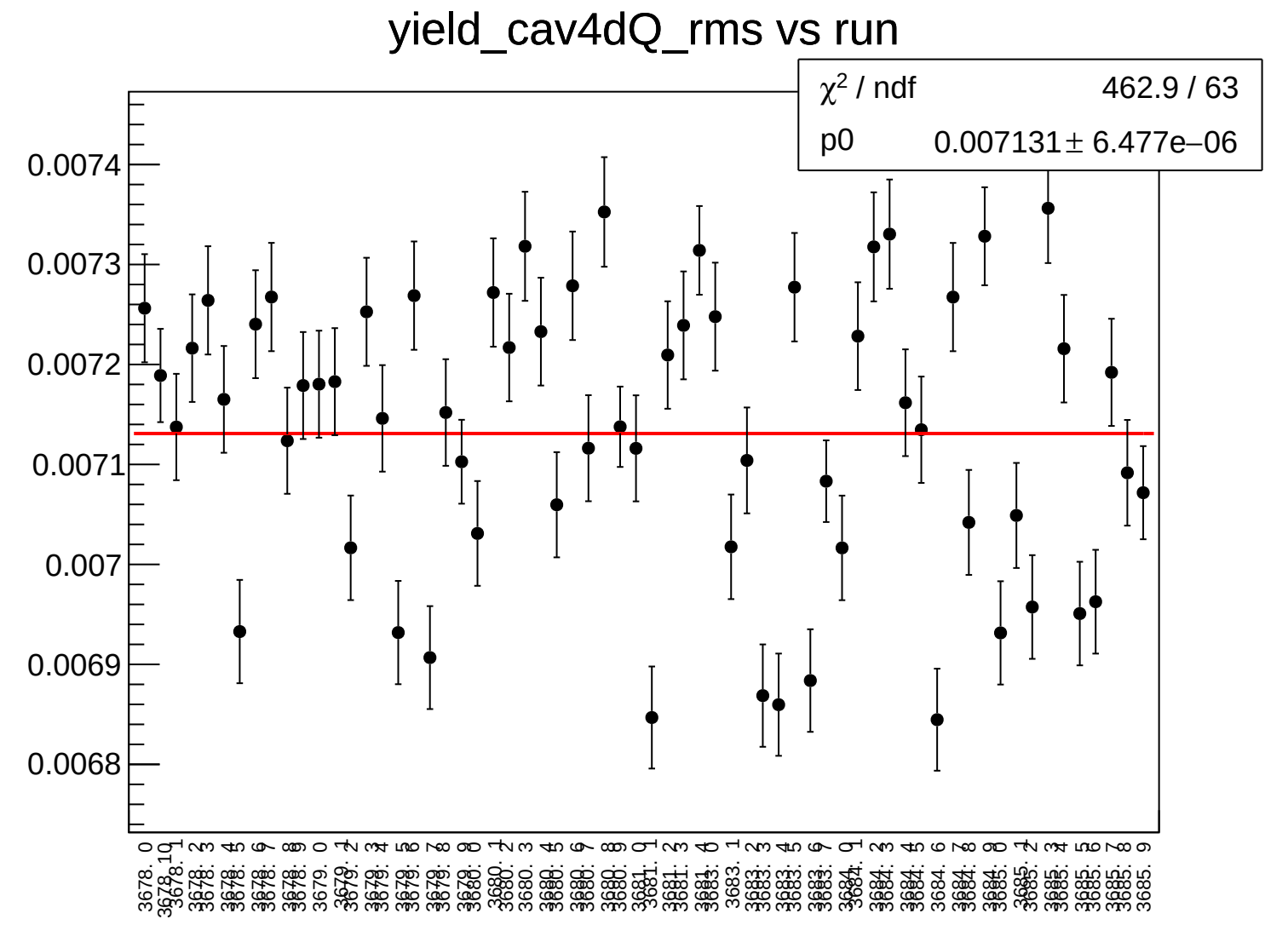

yield_cav4cQ_mean vs run
χ² / ndf 1.845e+06 / 63
p0 70.34 ± 0.0003703
pull
Entries 64
Mean −293.8
Std Dev 325.6

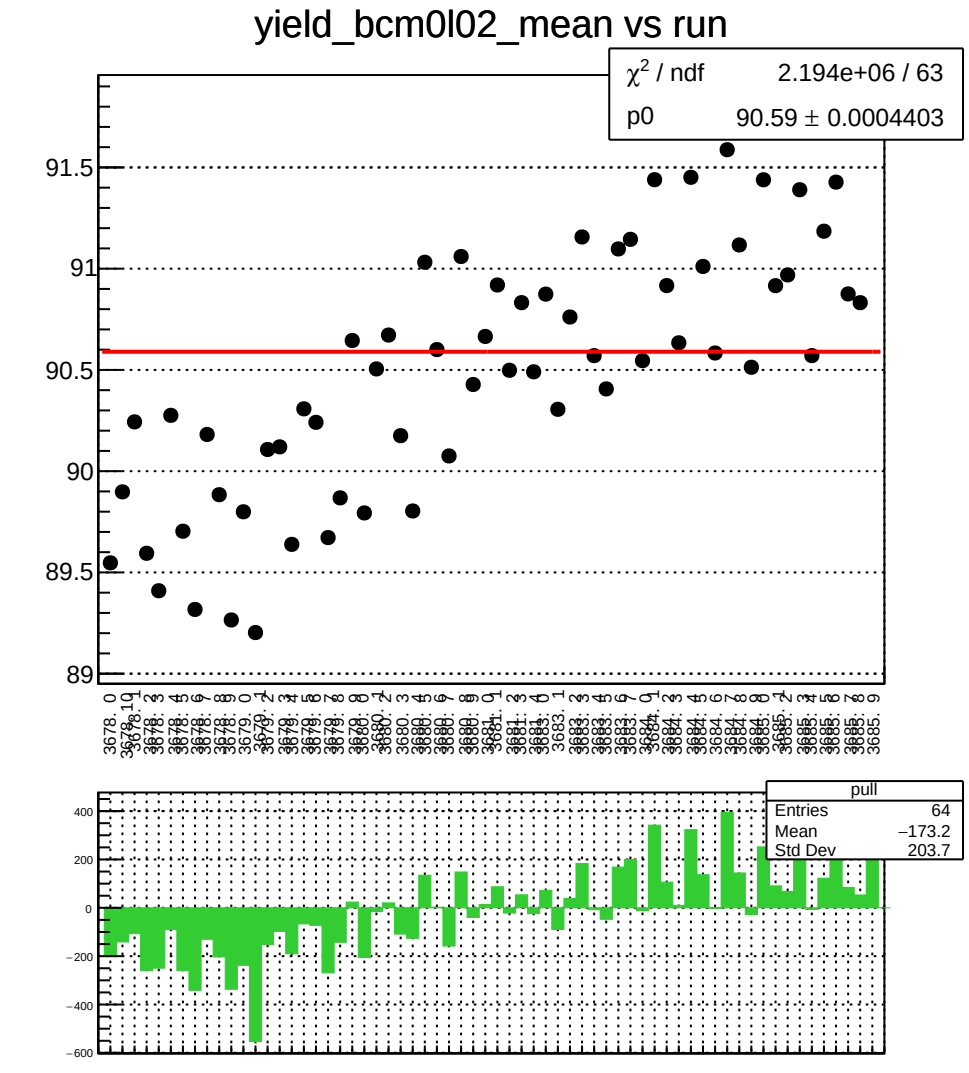

pull1D
Entries 64
Mean 0.8516
Std Dev 0

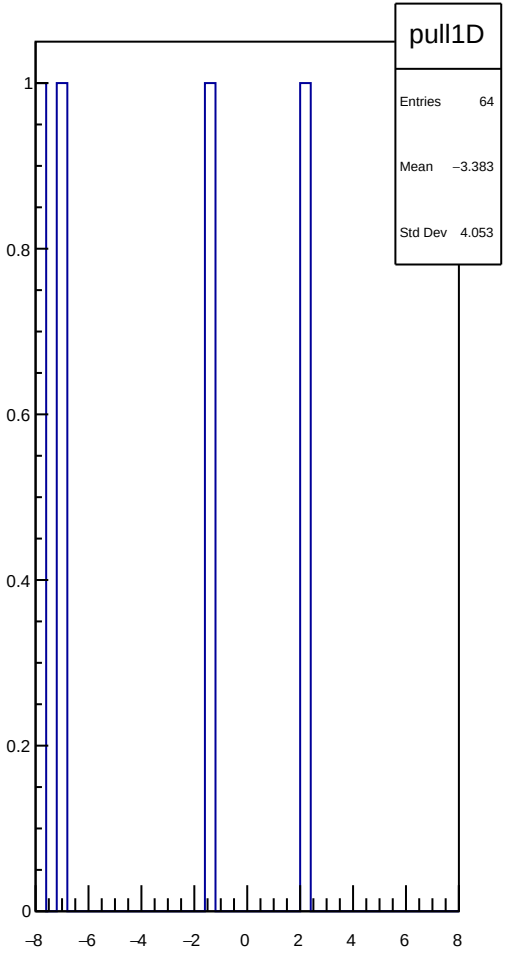

yield_cav4cQ_rms vs run
χ² / ndf 5.593e+04 / 63
p0 0.2816 ± 0.0002618
0.45
0.4
0.35
0.3
0.25
0.2

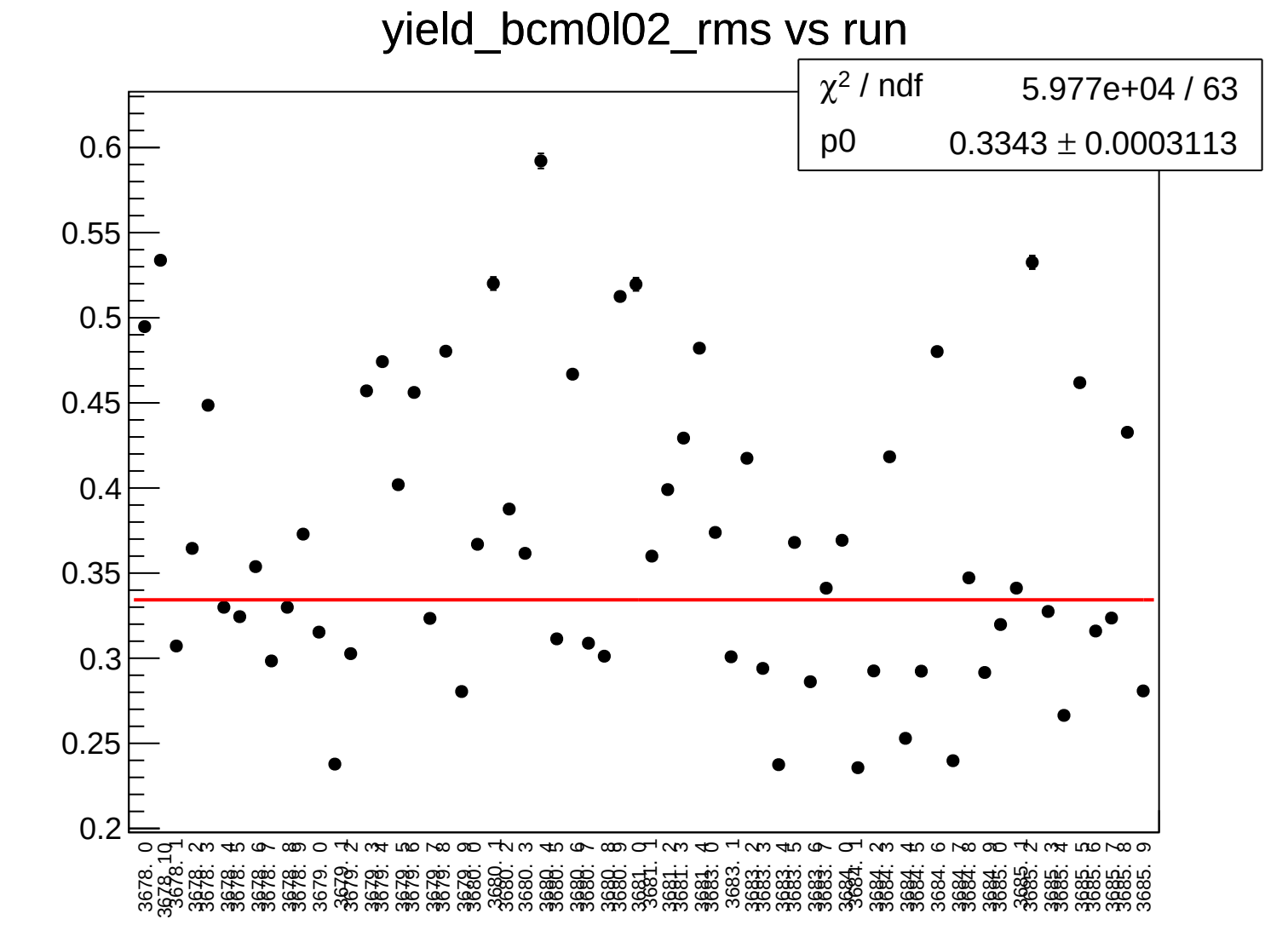

yield_cav4dQ_mean vs run
χ² / ndf 6.547e+04 / 63
p0 379 ± 9.16e−06
379.036
379.034
379.032
379.03
379.028
379.026
379.024
pull
Entries 64
Mean 50.2
Std Dev 104.1
80
60
40
20
0
−20
−40
−60

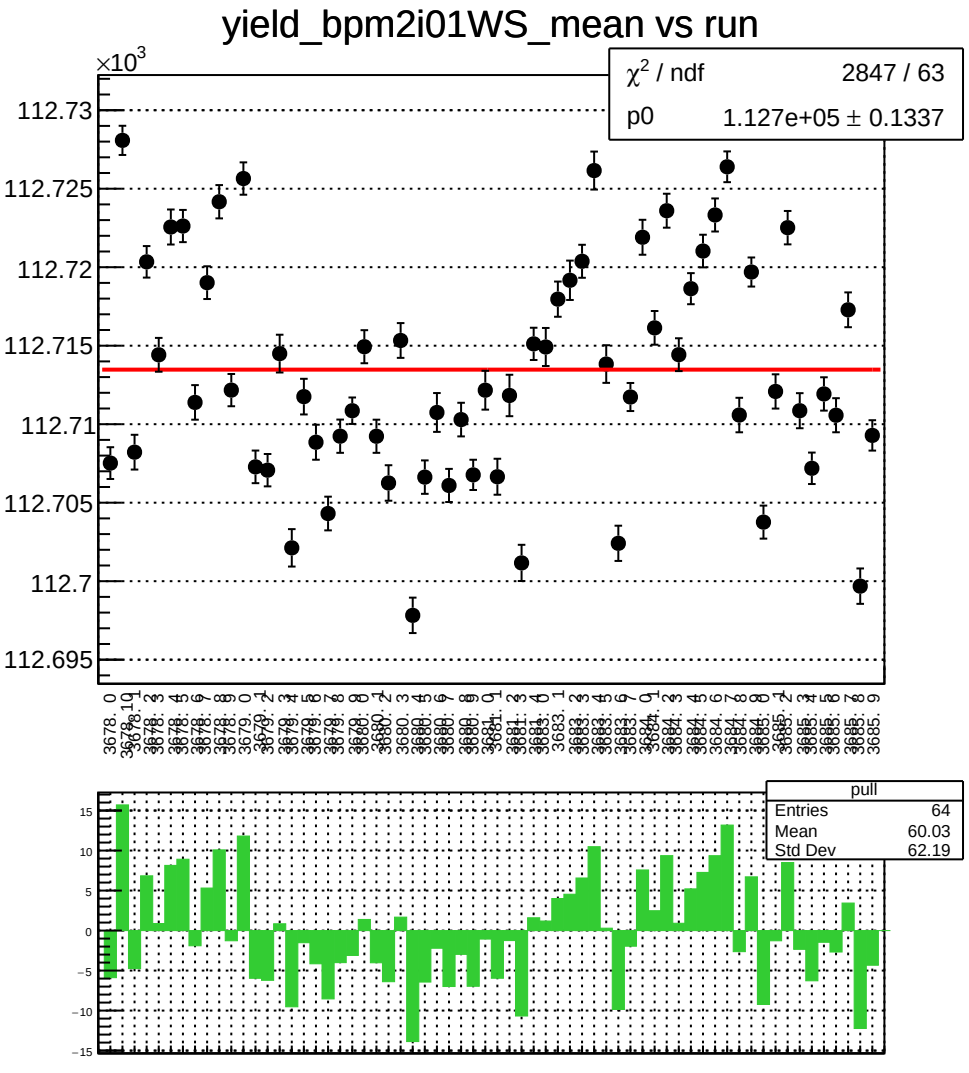

pull1D
Entries 64
Mean −1.535
Std Dev 4.949
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

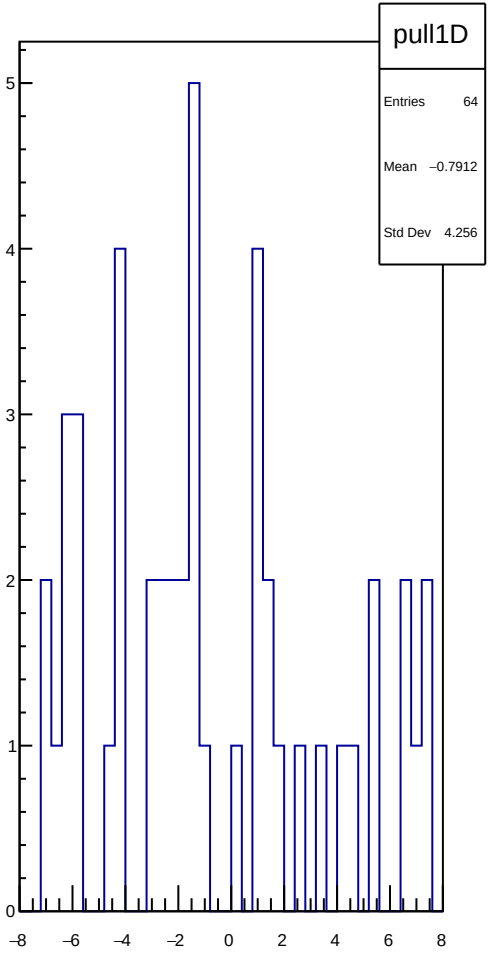

yield_cav4dQ_rms vs run
χ² / ndf 462.9 / 63
p0 0.007131 ± 6.477e−06
0.0074
0.0073
0.0072
0.0071
0.007
0.0069
0.0068

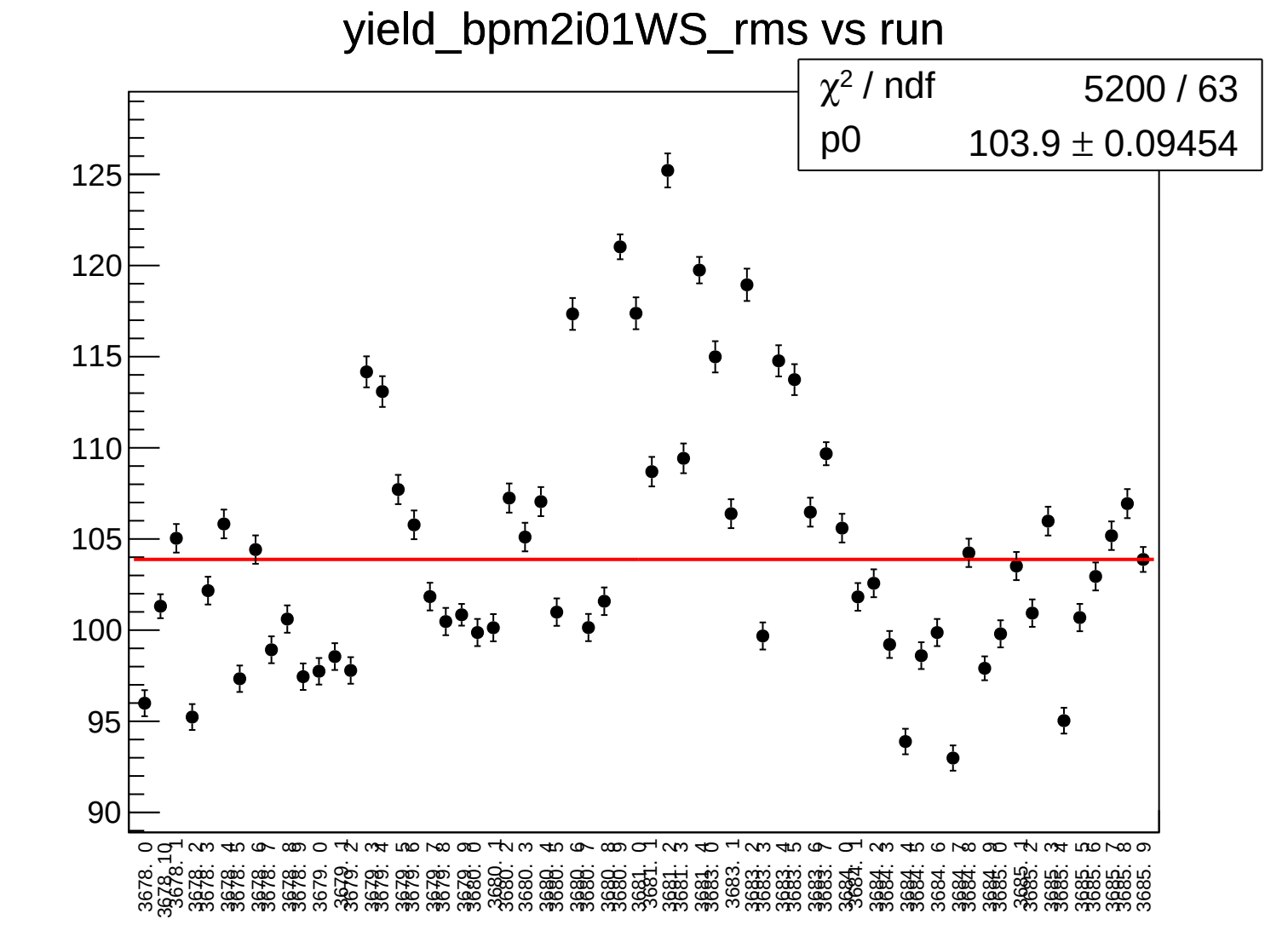

yield_bcm0l02_mean vs run
χ² / ndf 2.194e+06 / 63
p0 90.59 ± 0.0004403
91.5
91
90.5
90
89.5
89
pull
Entries 64
Mean −173.2
Std Dev 203.7
400
200
0
−200
−400
−600

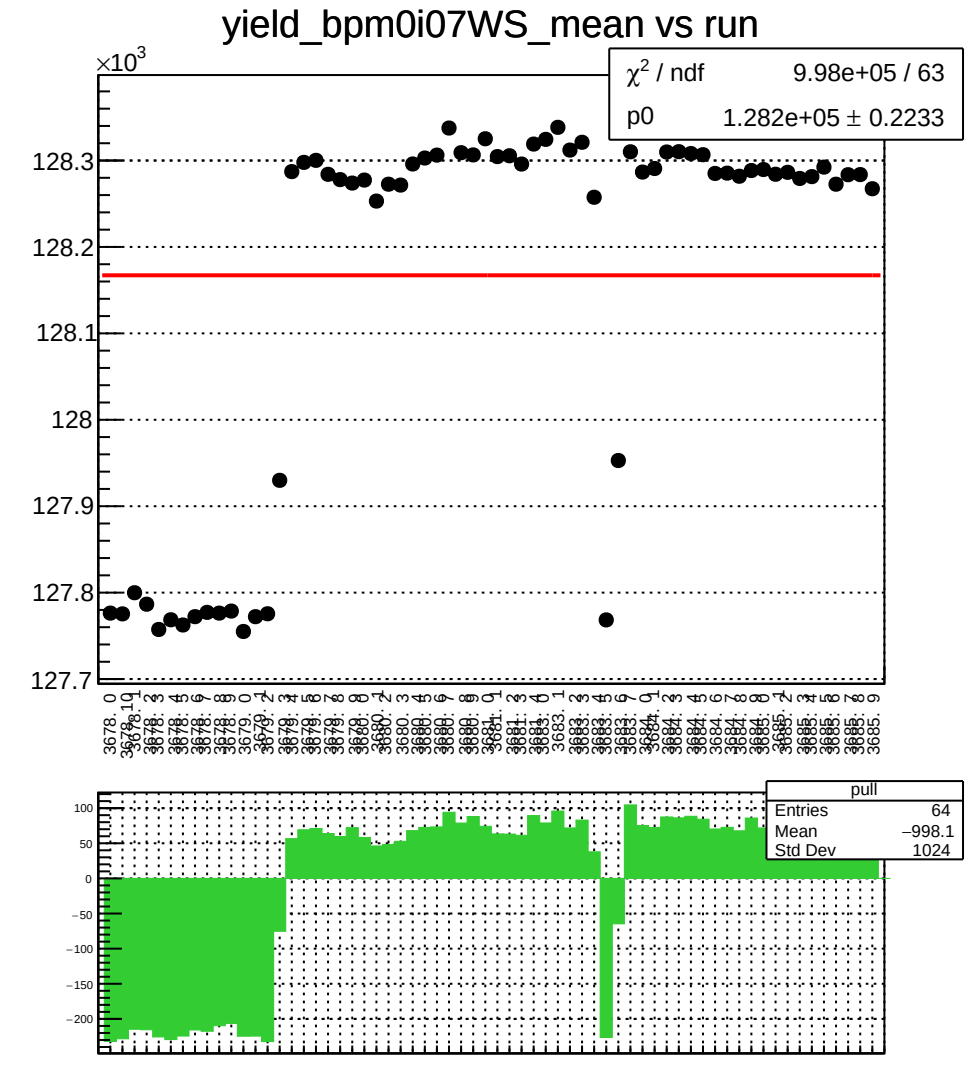

pull1D
Entries 64
Mean −3.383
Std Dev 4.053
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

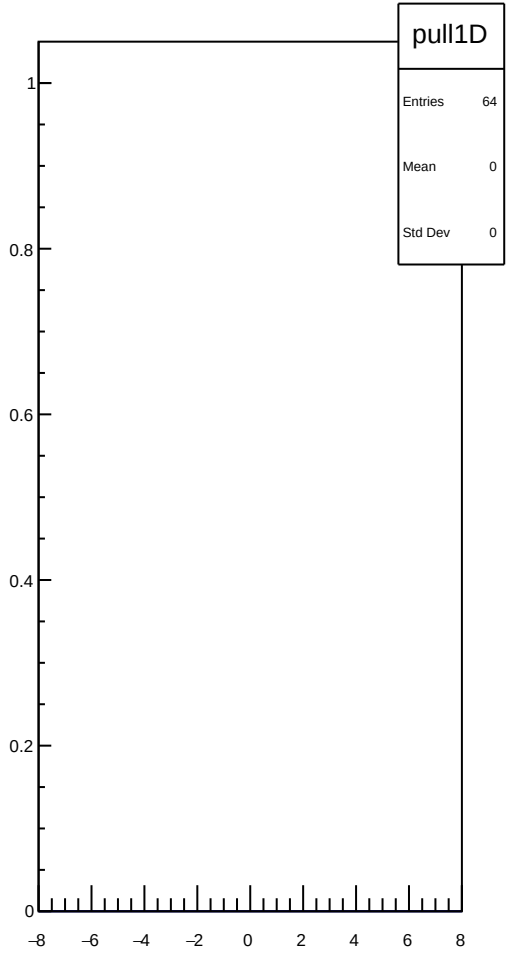

yield_bcm0l02_rms vs run
χ² / ndf 5.977e+04 / 63
p0 0.3343 ± 0.0003113
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

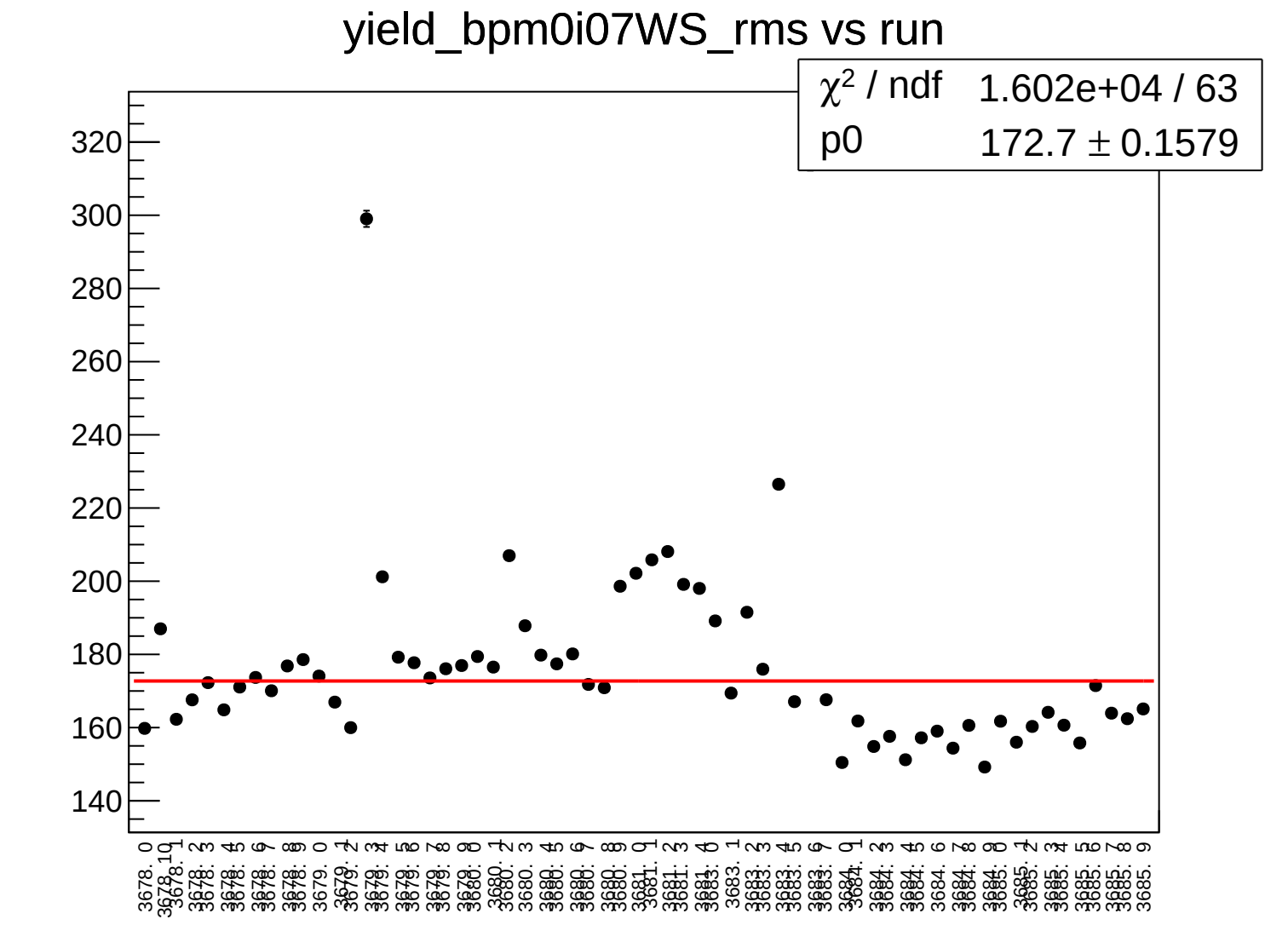

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2847 / 63
p0 1.127e+05 ± 0.1337
112.73
112.725
112.72
112.715
112.71
112.705
112.7
112.695
pull
Entries 64
Mean 60.03
Std Dev 62.19
15
10
5
0
−5
−10
−15

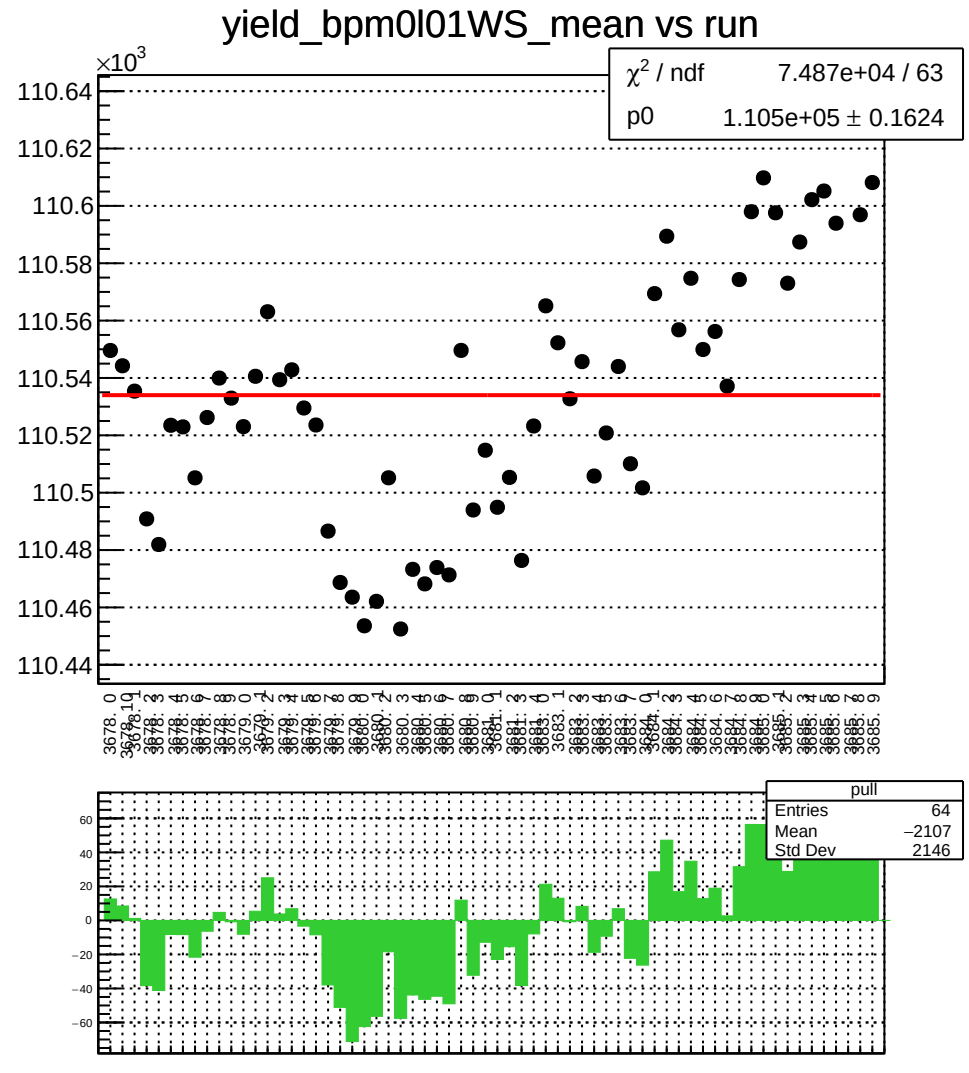

pull1D
Entries 64
Mean −0.7912
Std Dev 4.256
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

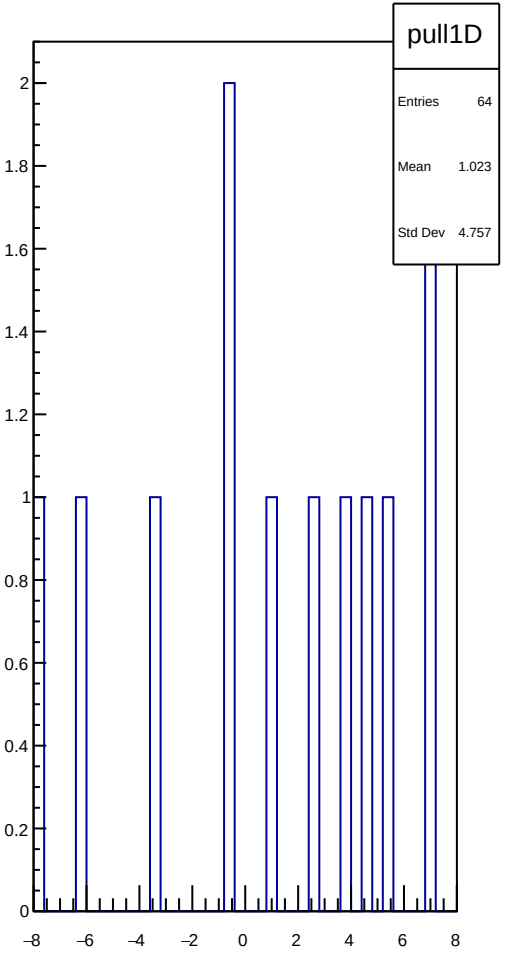

yield_bpm2i01WS_rms vs run
χ² / ndf 5200 / 63
p0 103.9 ± 0.09454
125
120
115
110
105
100
95
90

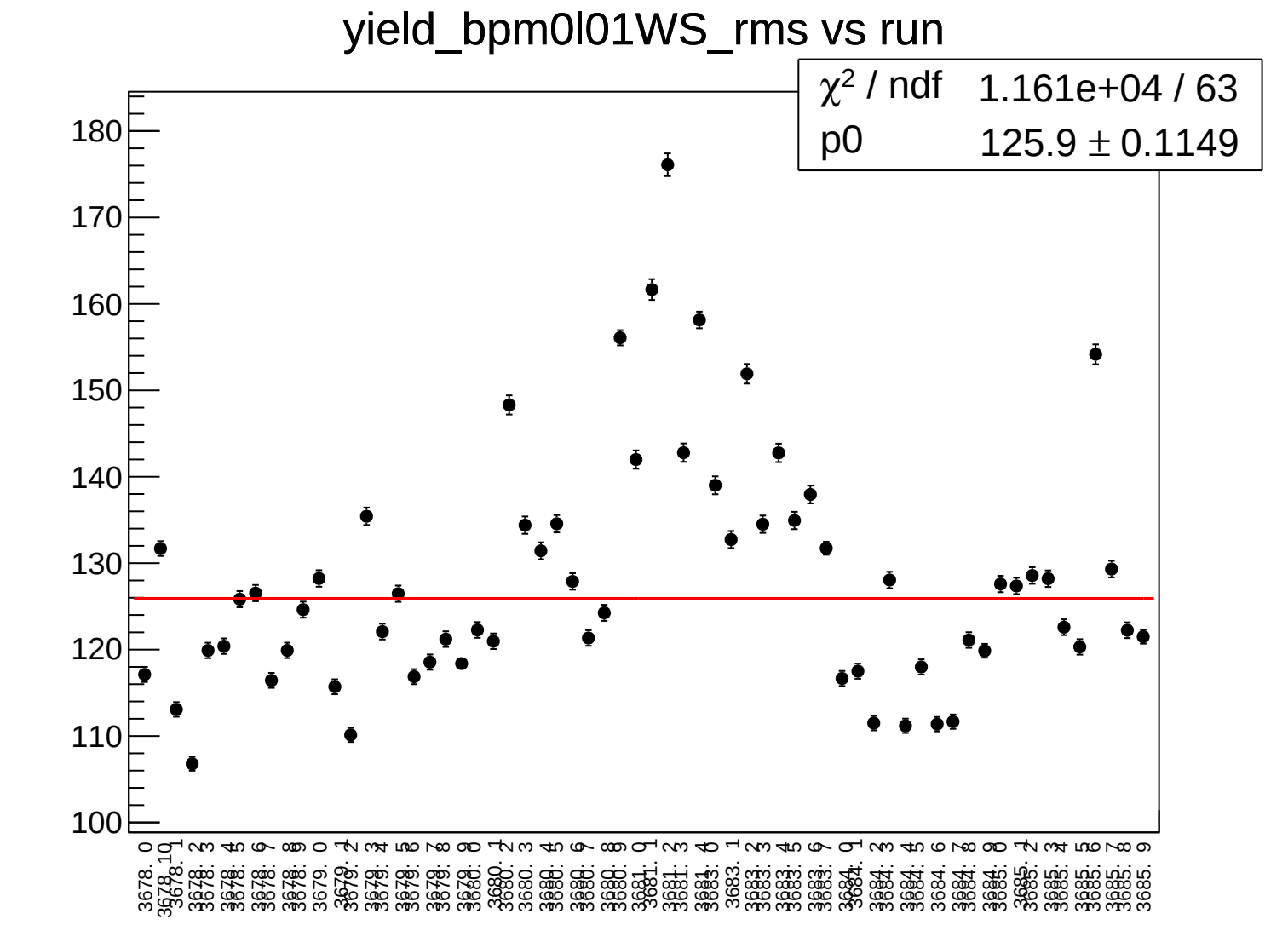

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 9.98e+05 / 63
p0 1.282e+05 ± 0.2233
128.3
128.2
128.1
128
127.9
127.8
127.7
pull
Entries 64
Mean −998.1
Std Dev 1024
100
50
0
−50
−100
−150
−200

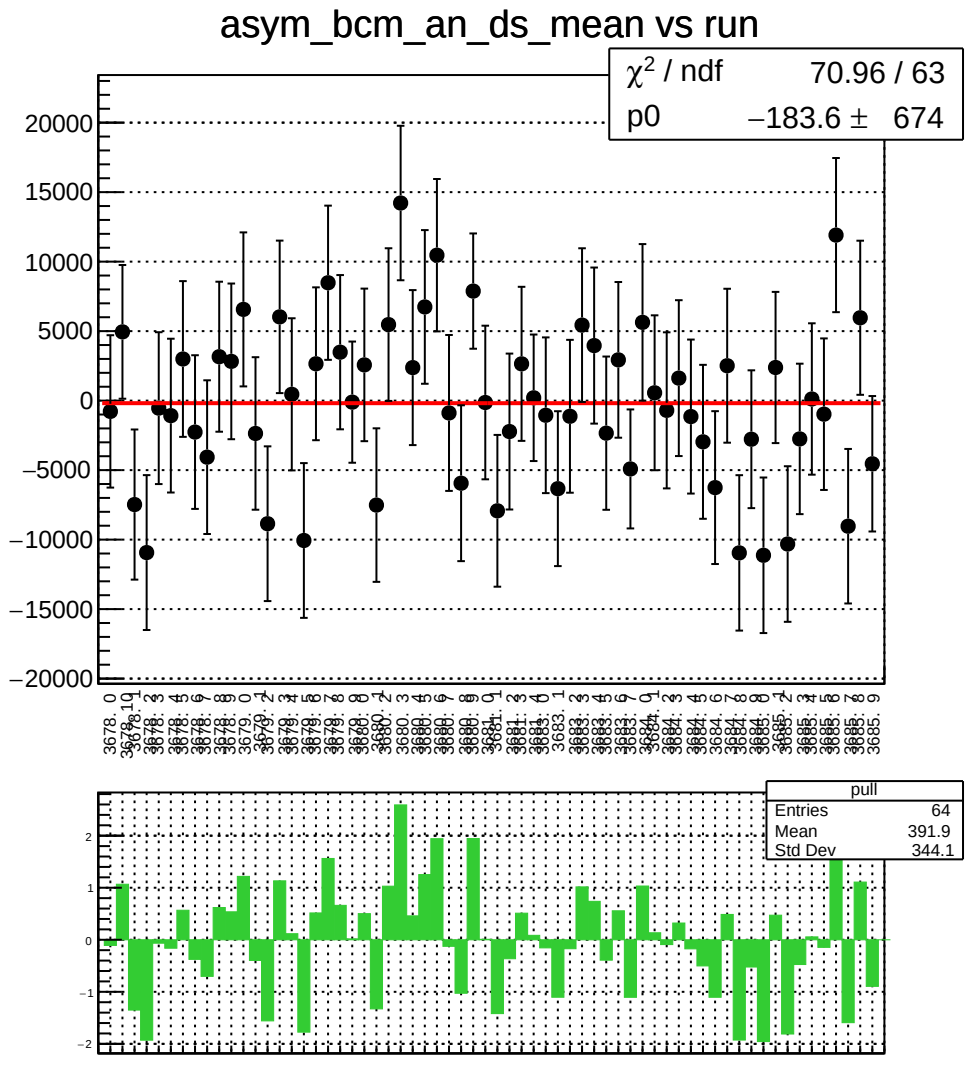

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

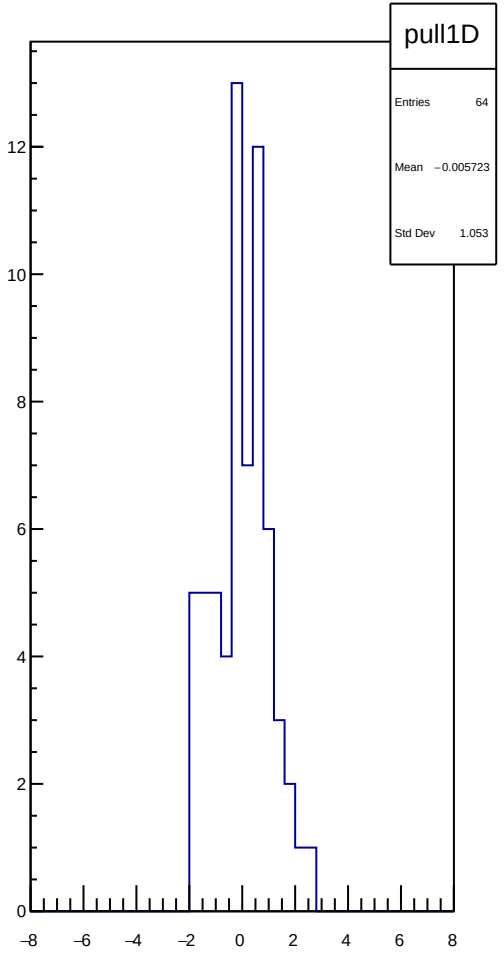

yield_bpm0i07WS_rms vs run
χ² / ndf 1.602e+04 / 63
p0 172.7 ± 0.1579
320
300
280
260
240
220
200
180
160
140

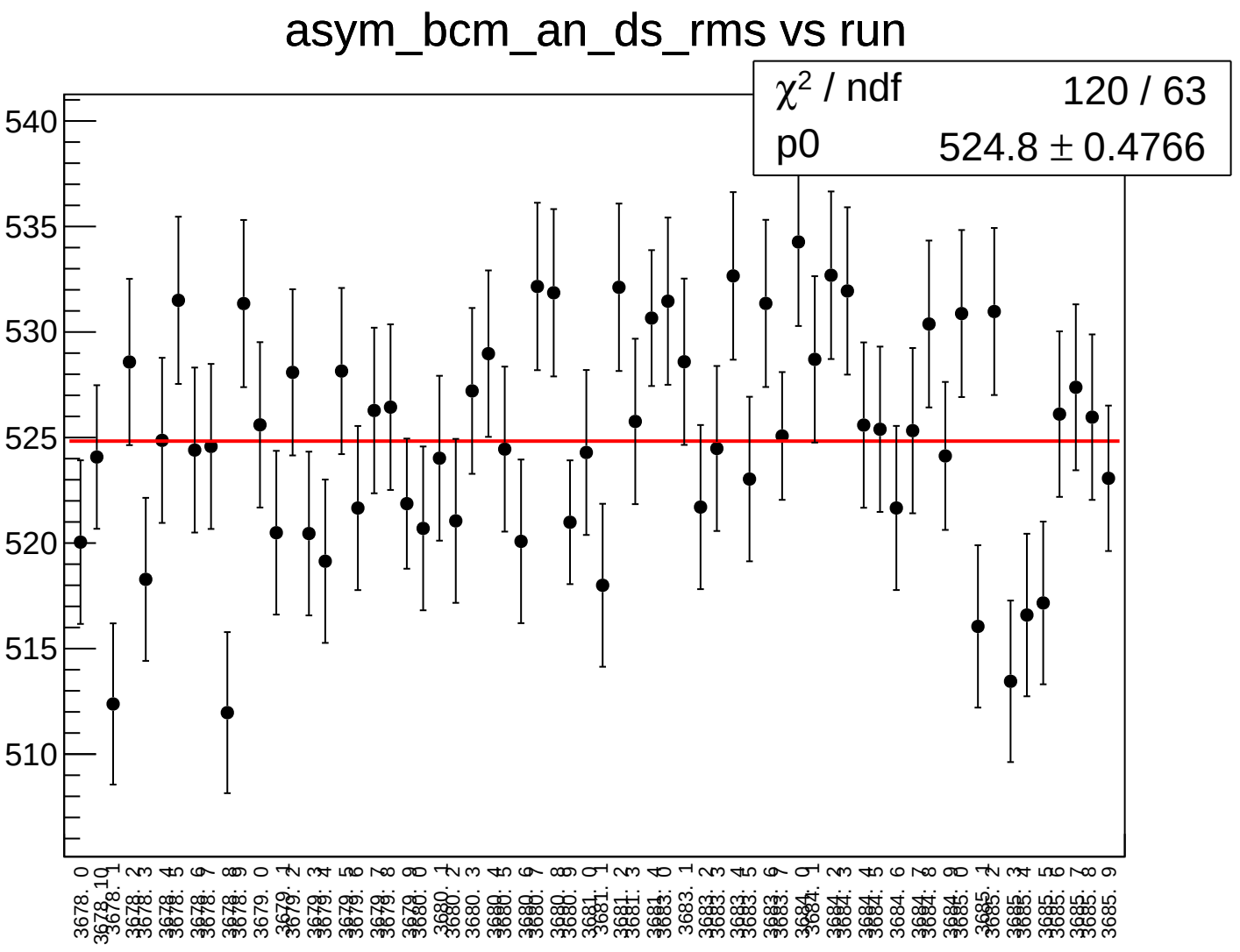

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 7.487e+04 / 63
p0 1.105e+05 ± 0.1624
110.64
110.62
110.6
110.58
110.56
110.54
110.52
110.5
110.48
110.46
110.44
pull
Entries 64
Mean −2107
Std Dev 2146
60
40
20
0
−20
−40
−60

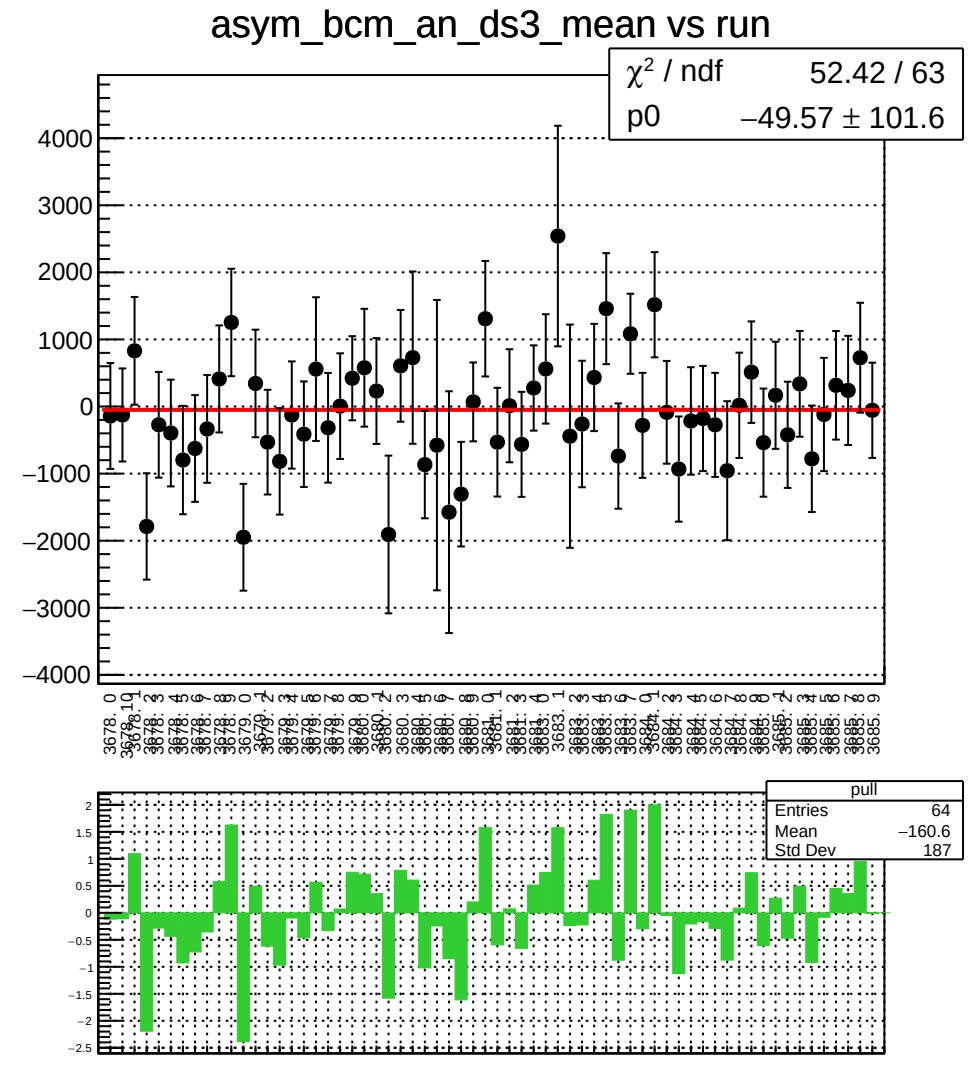

pull1D
Entries 64
Mean 1.023
Std Dev 4.757
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

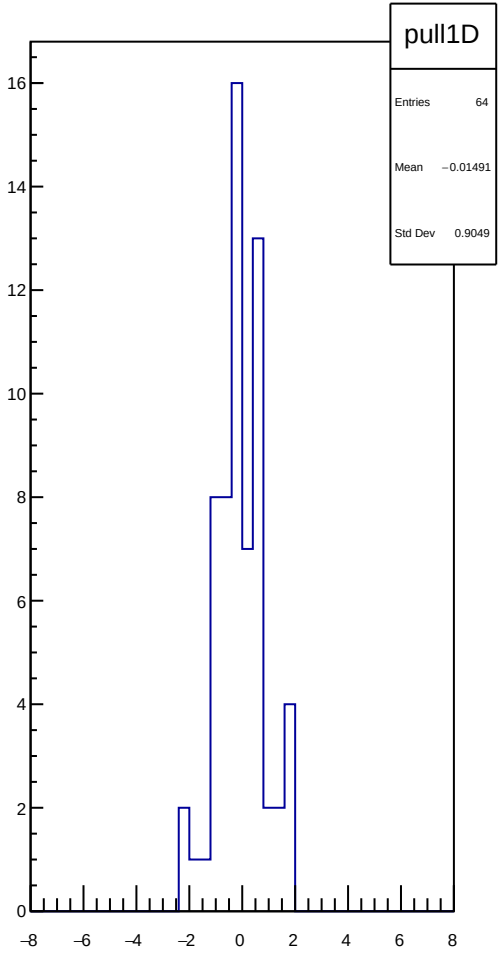

yield_bpm0l01WS_rms vs run
χ² / ndf 1.161e+04 / 63
p0 125.9 ± 0.1149
180
170
160
150
140
130
120
110
100

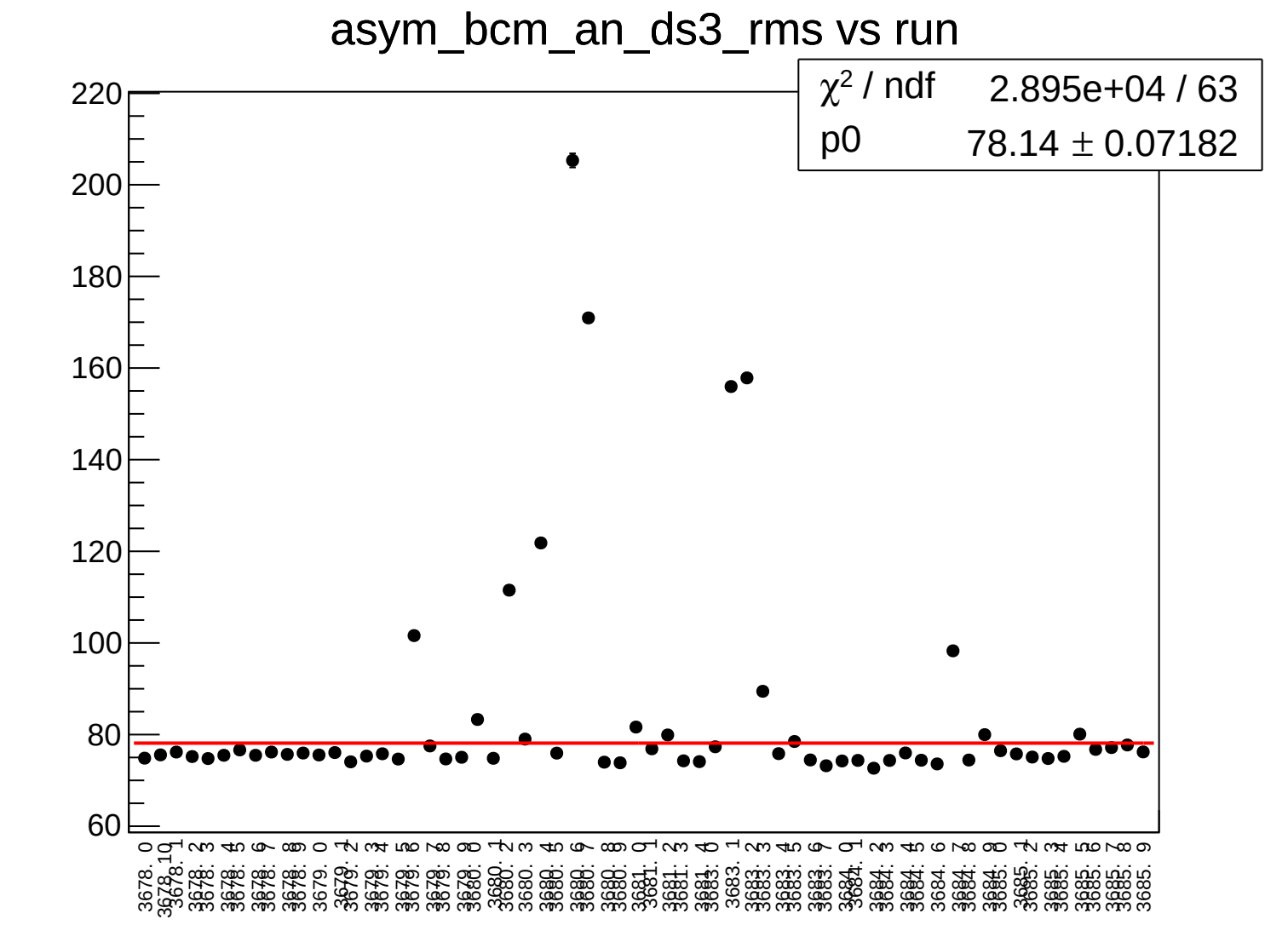

asym_bcm_an_ds_mean vs run
χ² / ndf 70.96 / 63
p0 −183.6 ± 674
pull
Entries 64
Mean 391.9
Std Dev 344.1

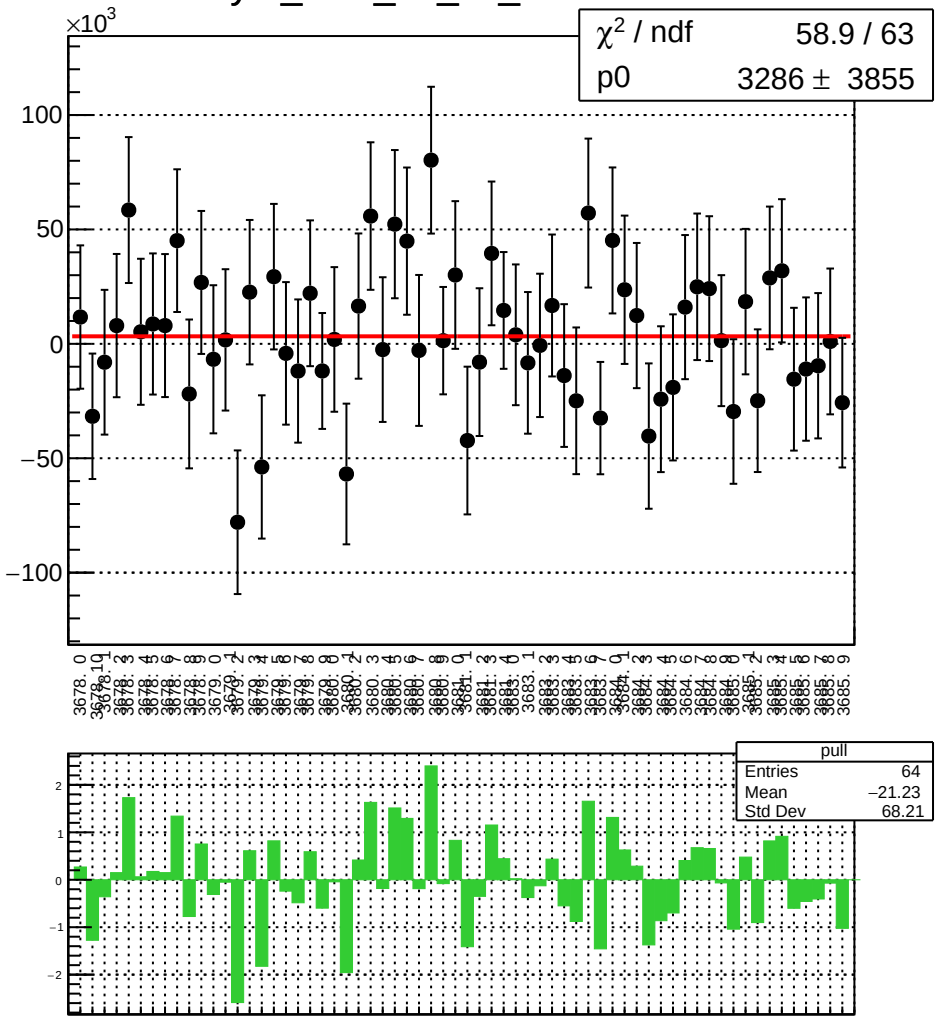

pull1D
Entries 64
Mean −0.005723
Std Dev 1.053

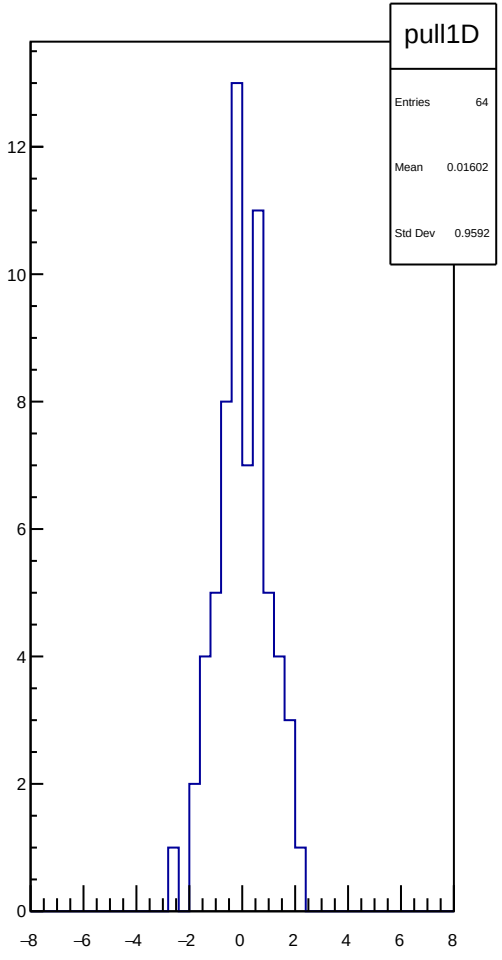

asym_bcm_an_ds_rms vs run
$\chi^2$ / ndf 120 / 63
p0 524.8 ± 0.4766
540
535
530
525
520
515
510

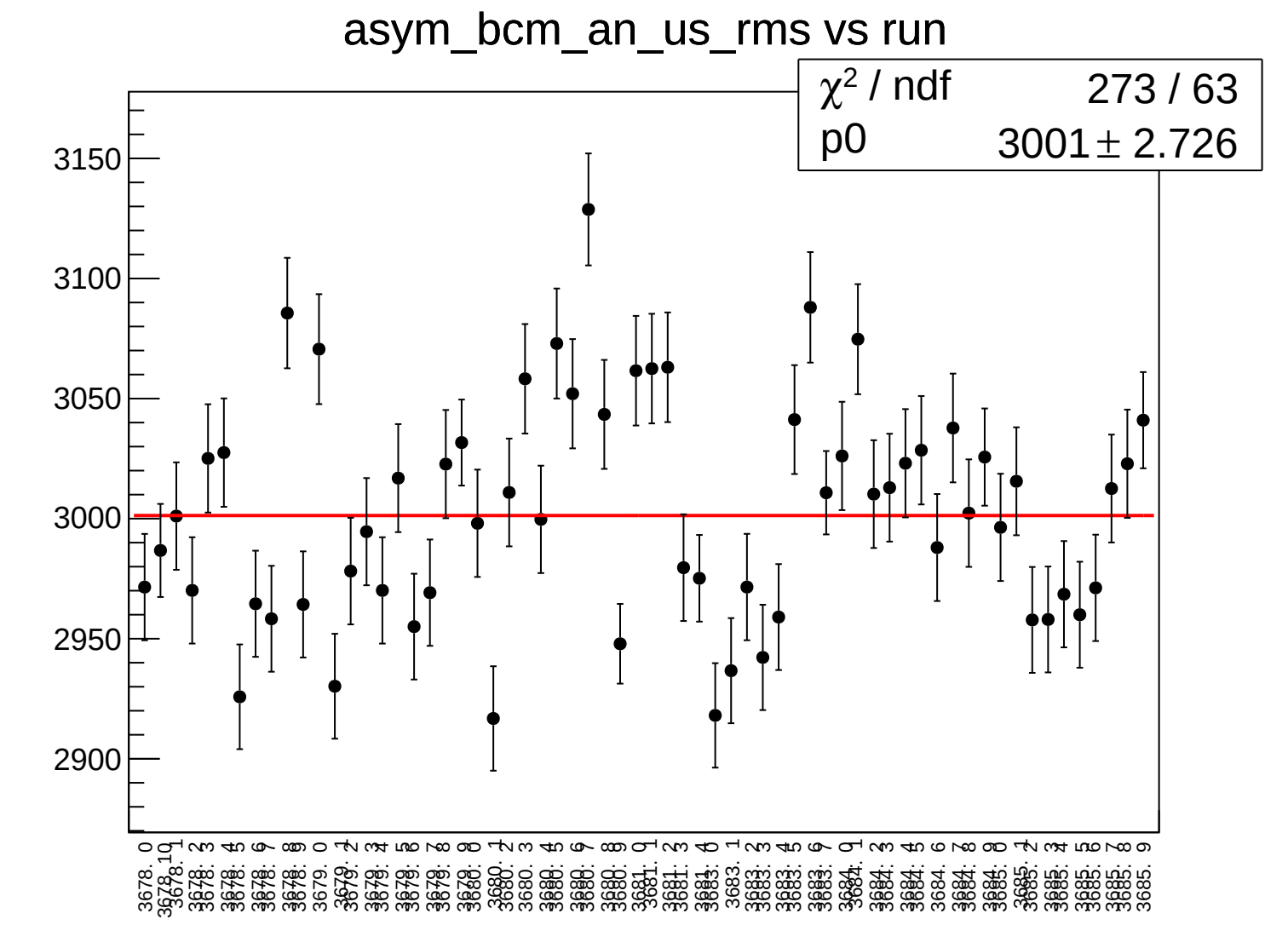

asym_bcm_an_ds3_mean vs run
χ² / ndf 52.42 / 63
p0 −49.57 ± 101.6
pull
Entries 64
Mean −160.6
Std Dev 187

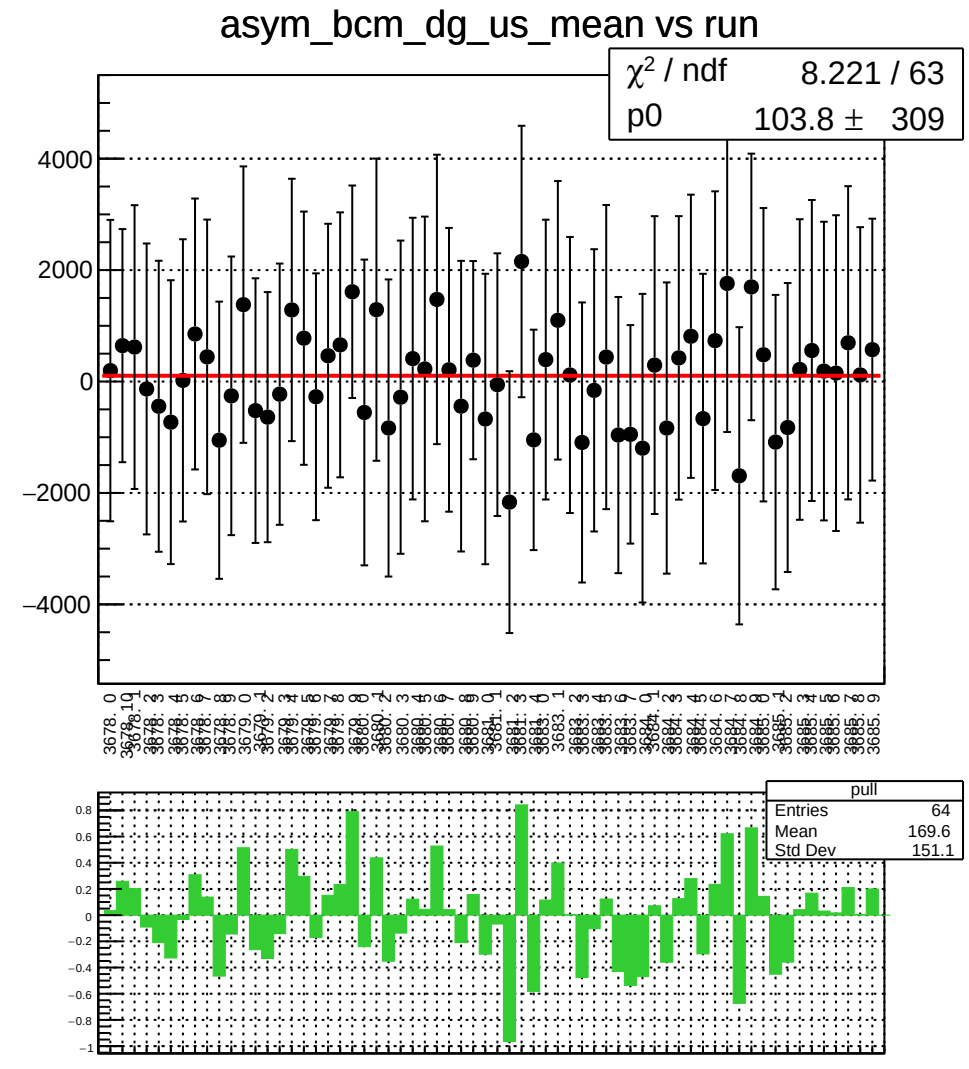

pull1D
Entries 64
Mean −0.01491
Std Dev 0.9049

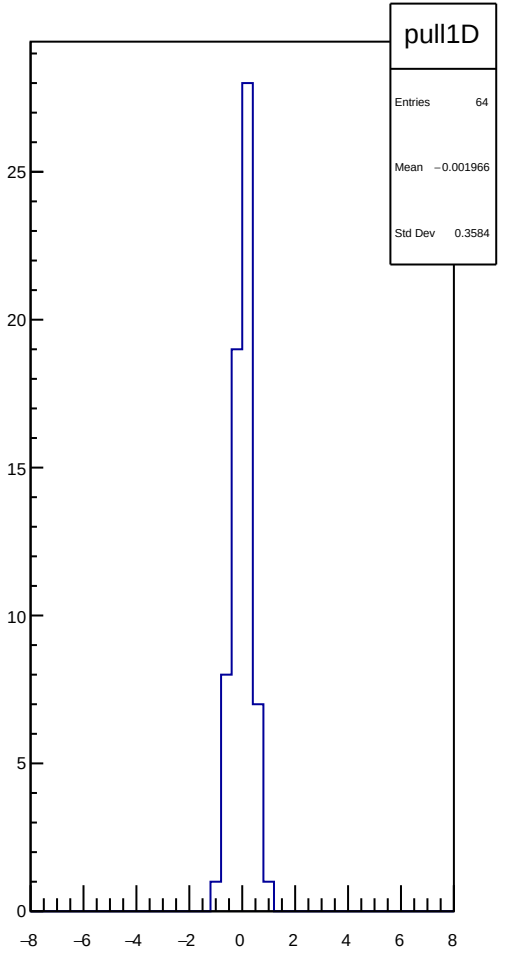

asym_bcm_an_ds3_rms vs run
χ² / ndf 2.895e+04 / 63
p0 78.14 ± 0.07182
220
200
180
160
140
120
100
80
60

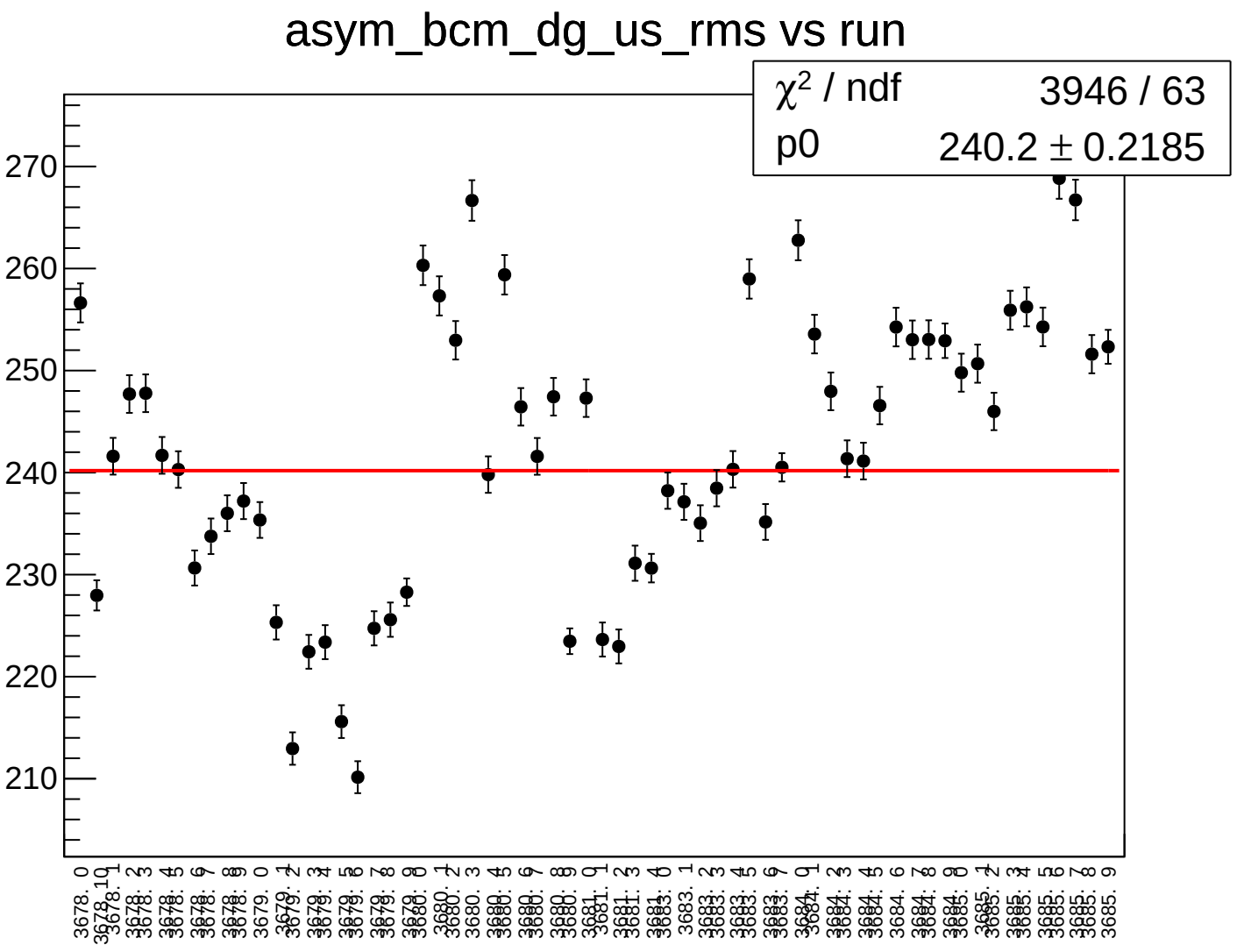

asym_bcm_an_us_mean vs run
×10^3
χ^2 / ndf 58.9 / 63
p0 3286 ± 3855
100
50
0
−50
−100
pull
Entries 64
Mean −21.23
Std Dev 68.21
2
1
0
−1
−2

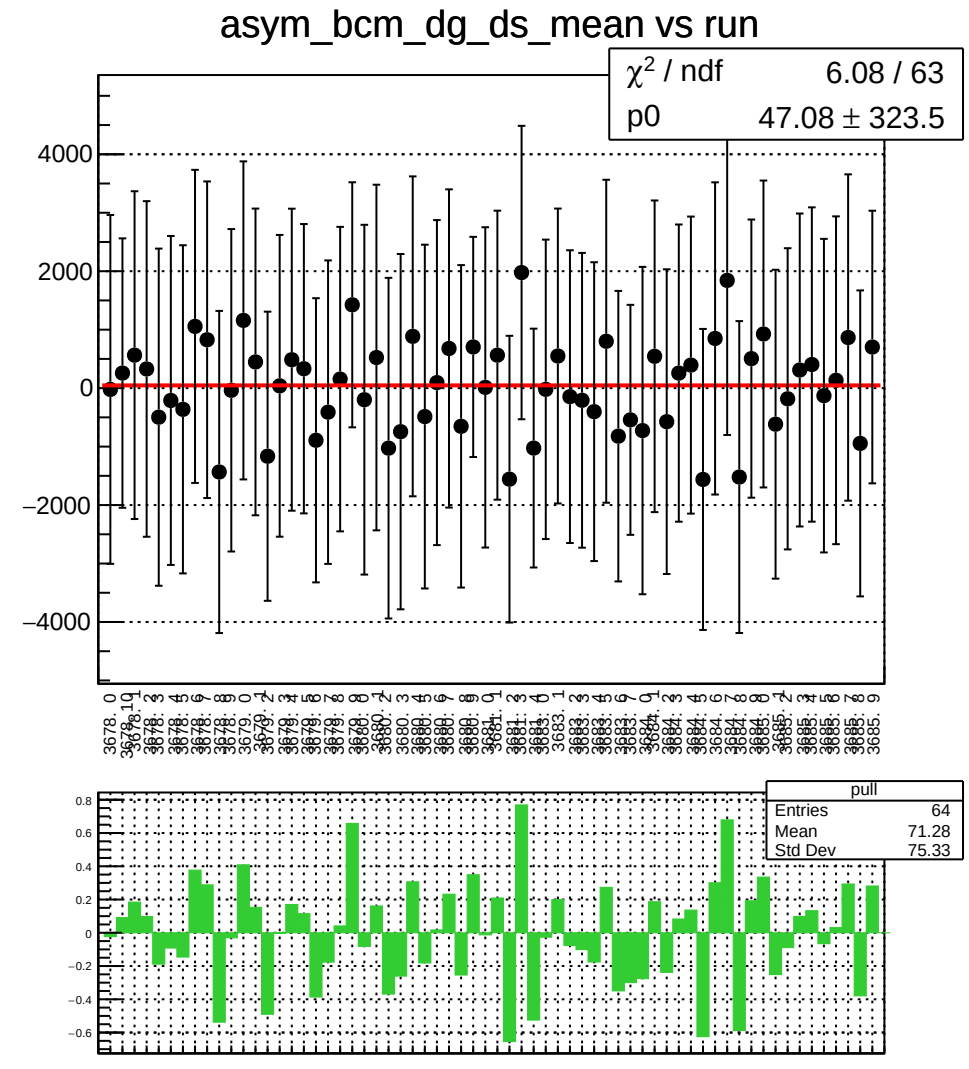

pull1D
Entries 64
Mean 0.01602
Std Dev 0.9592
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

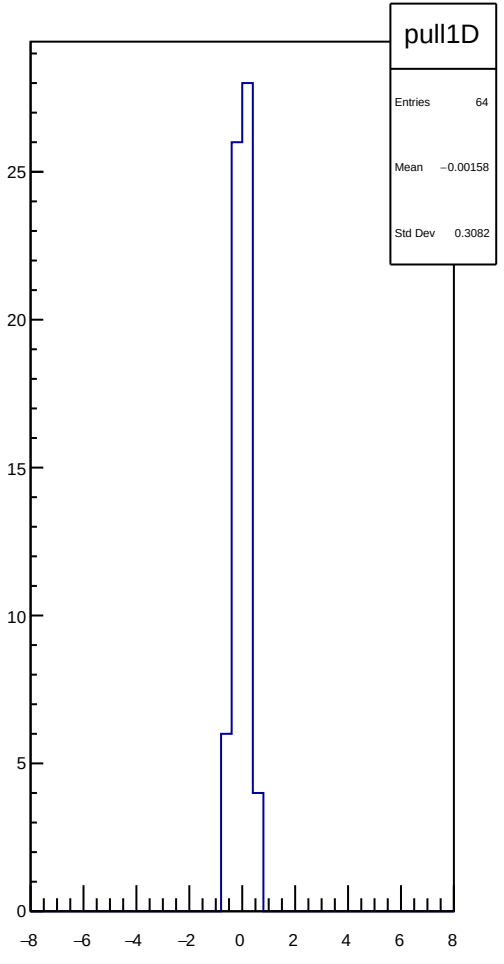

asym_bcm_an_us_rms vs run
χ² / ndf 273 / 63
p0 3001 ± 2.726
3150
3100
3050
3000
2950
2900

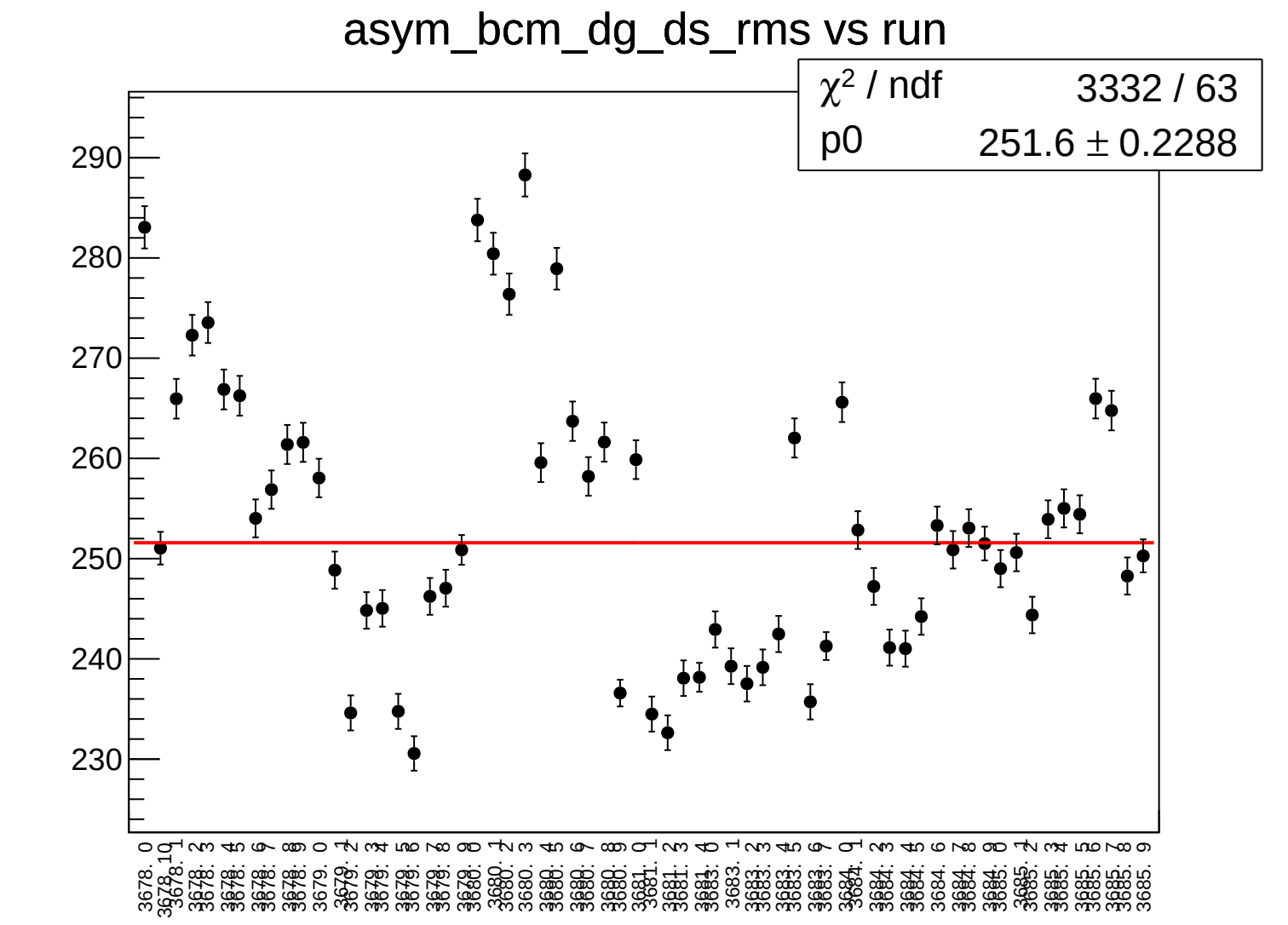

asym_bcm_dg_us_mean vs run
χ² / ndf 8.221 / 63
p0 103.8 ± 309
4000
2000
0
−2000
−4000
pull
Entries 64
Mean 169.6
Std Dev 151.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

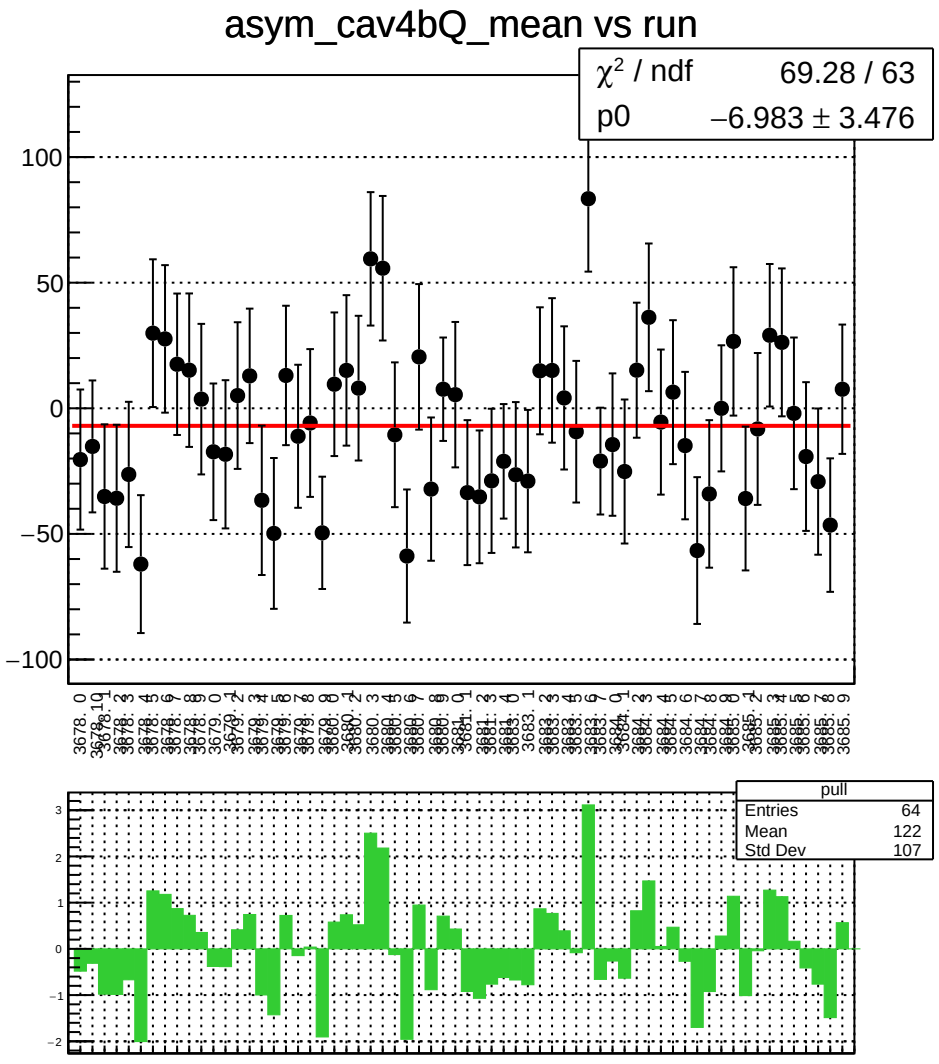

pull1D
Entries 64
Mean −0.001966
Std Dev 0.3584
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

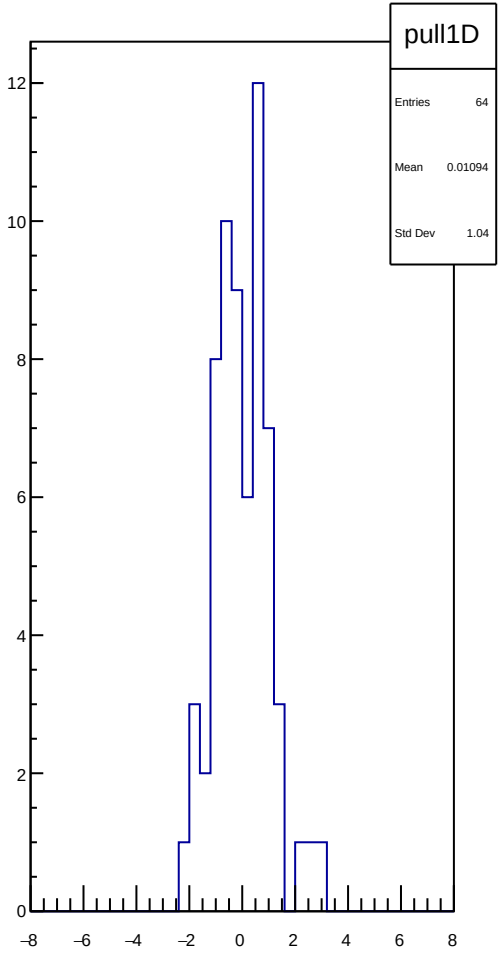

asym_bcm_dg_us_rms vs run
χ² / ndf 3946 / 63
p0 240.2 ± 0.2185
270
260
250
240
230
220
210

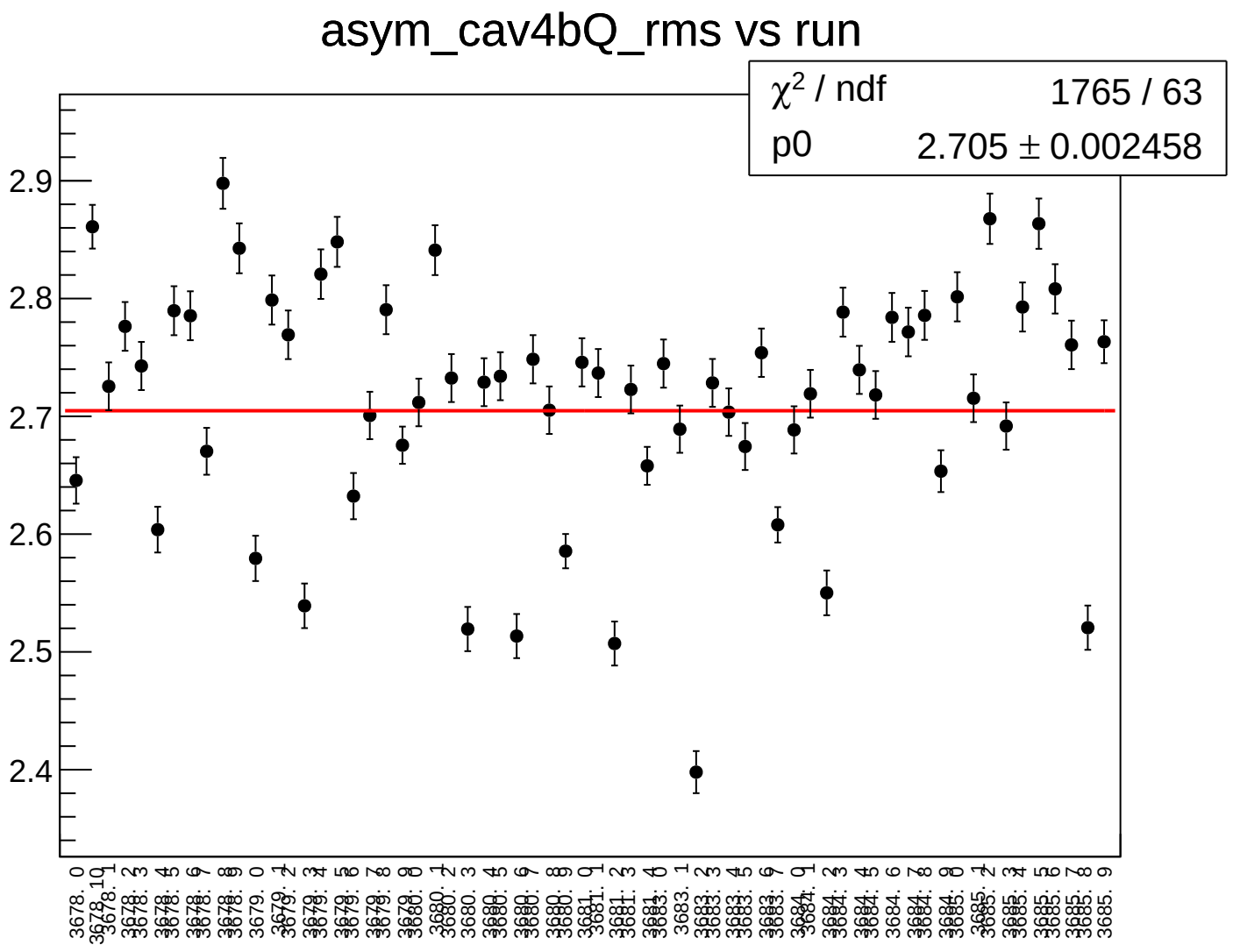

asym_bcm_dg_ds_mean vs run
χ² / ndf 6.08 / 63
p0 47.08 ± 323.5
4000
2000
0
−2000
−4000
pull
Entries 64
Mean 71.28
Std Dev 75.33
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

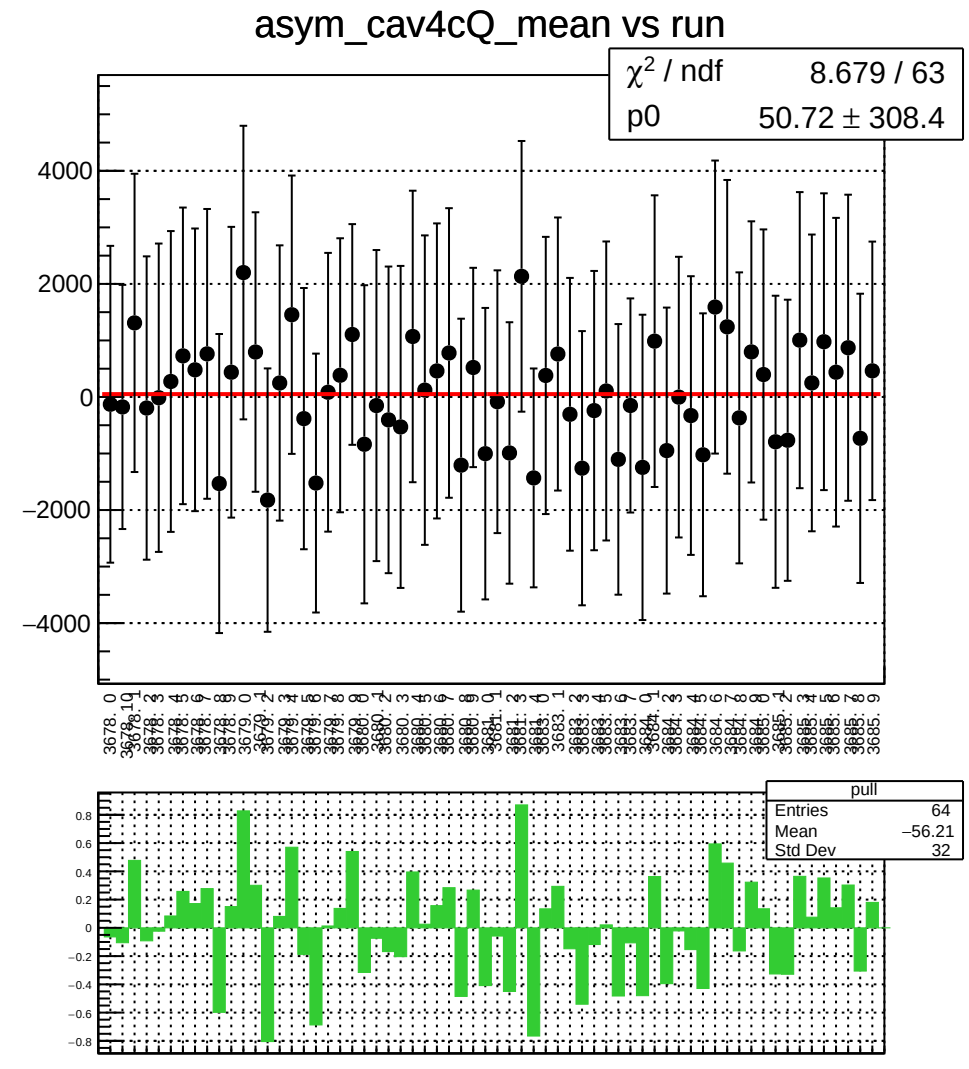

pull1D
Entries 64
Mean −0.00158
Std Dev 0.3082
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

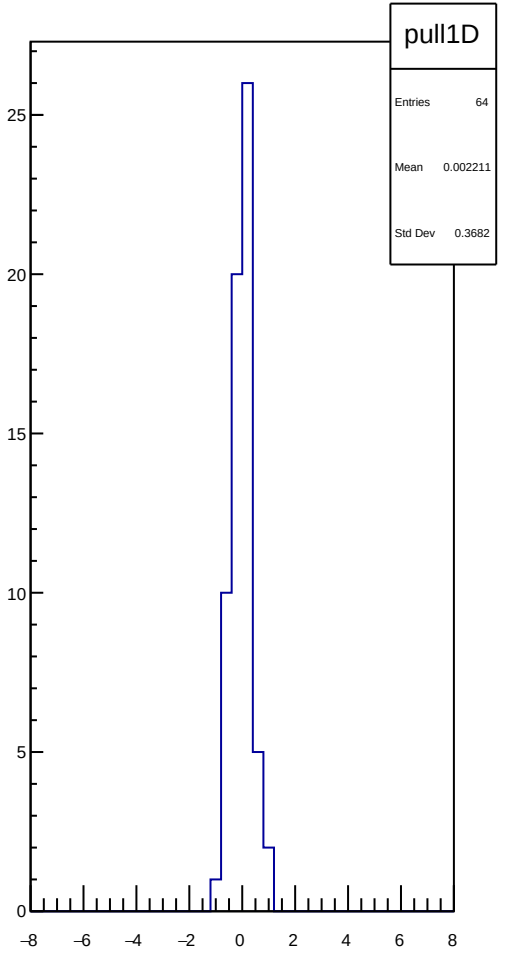

asym_bcm_dg_ds_rms vs run
χ² / ndf 3332 / 63
p0 251.6 ± 0.2288
290
280
270
260
250
240
230

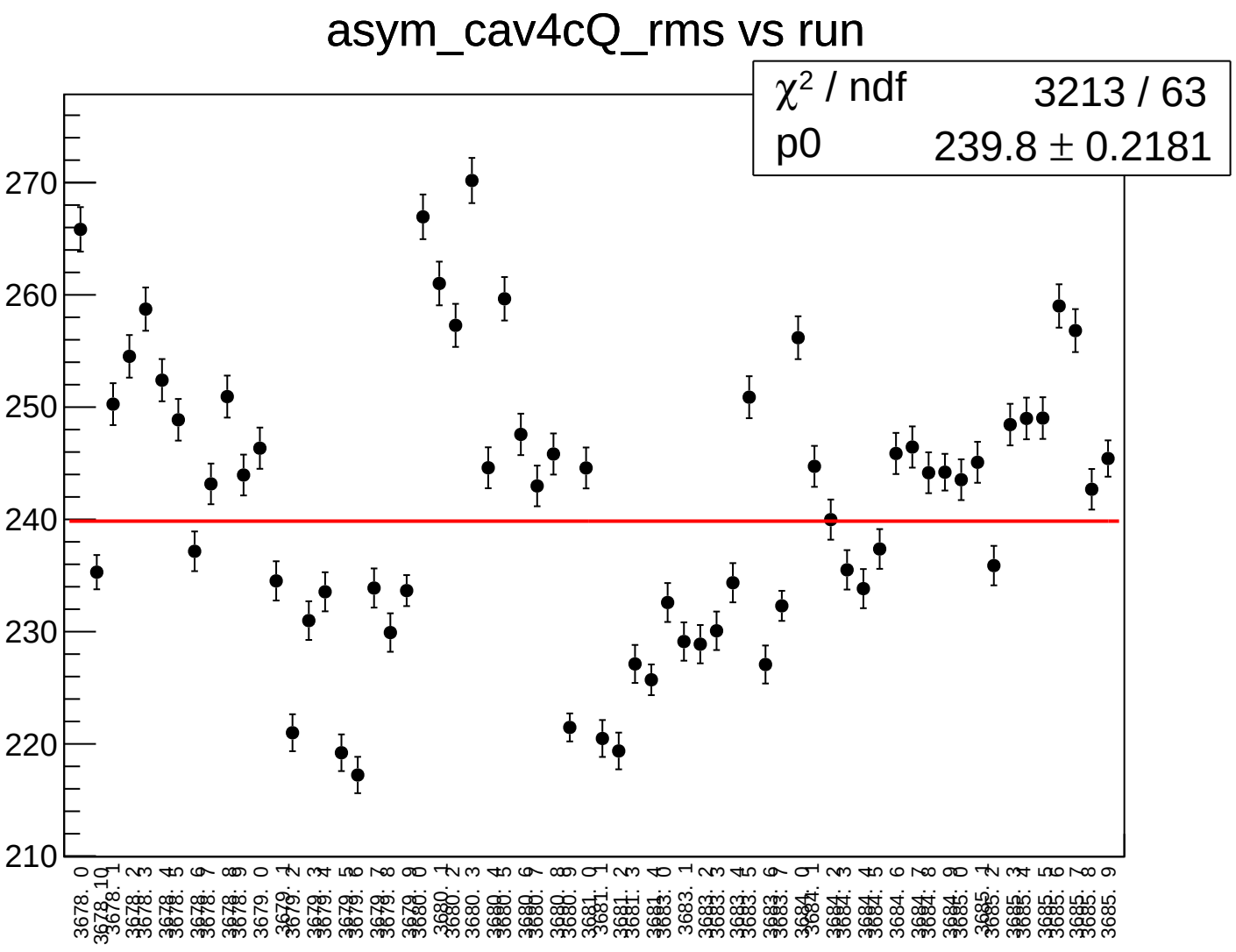

asym_cav4bQ_mean vs run
χ² / ndf 69.28 / 63
p0 −6.983 ± 3.476
pull
Entries 64
Mean 122
Std Dev 107

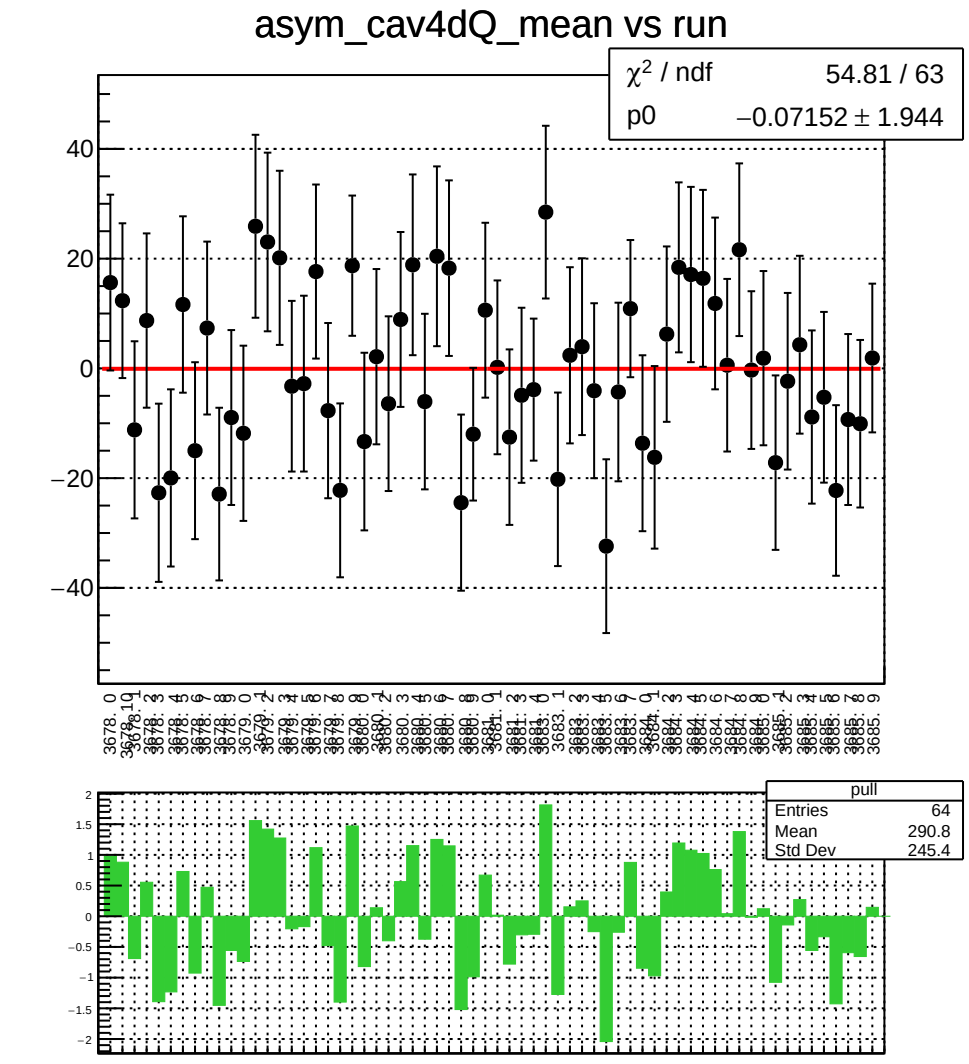

pull1D
Entries 64
Mean 0.01094
Std Dev 1.04

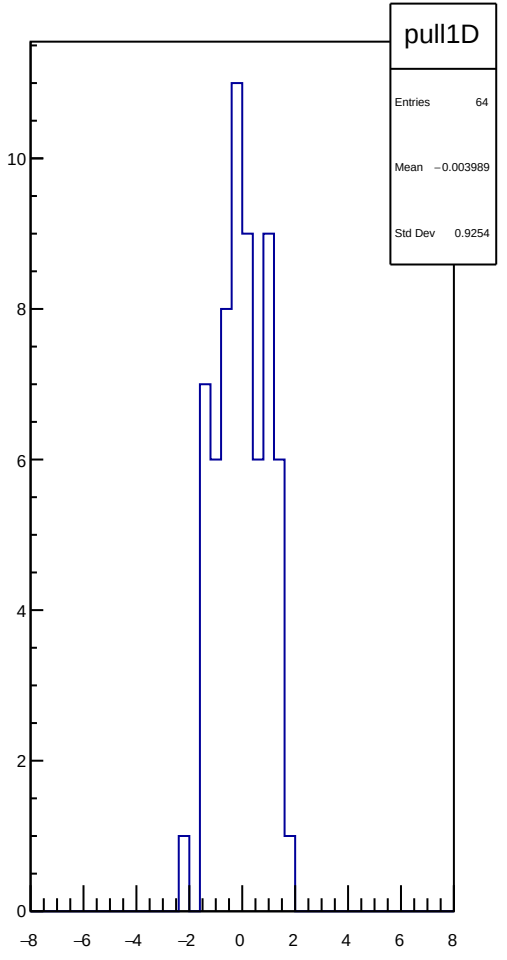

asym_cav4bQ_rms vs run
χ² / ndf 1765 / 63
p0 2.705 ± 0.002458
2.9
2.8
2.7
2.6
2.5
2.4

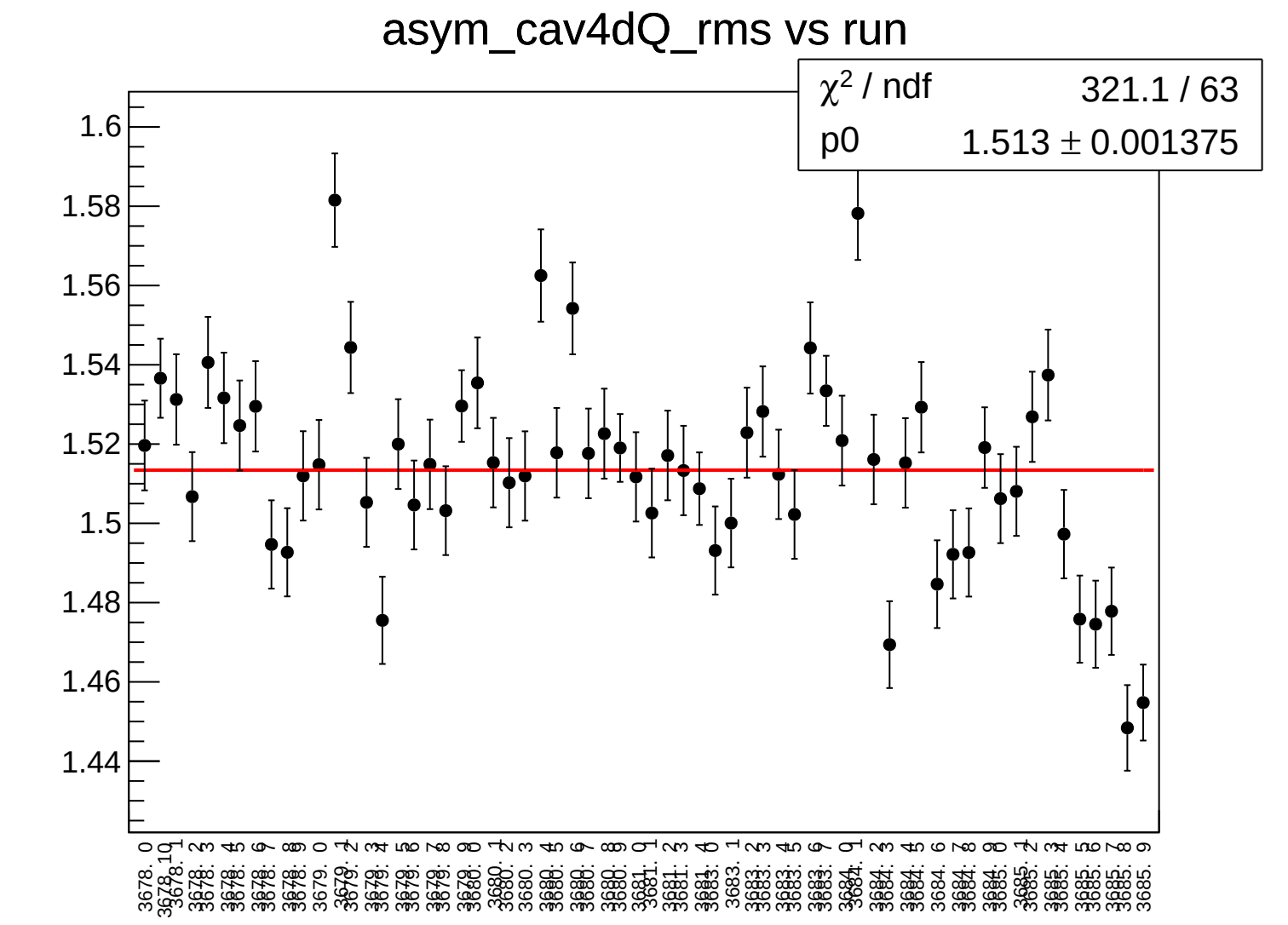

asym_cav4cQ_mean vs run
χ² / ndf 8.679 / 63
p0 50.72 ± 308.4
4000
2000
0
−2000
−4000
pull
Entries 64
Mean −56.21
Std Dev 32
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

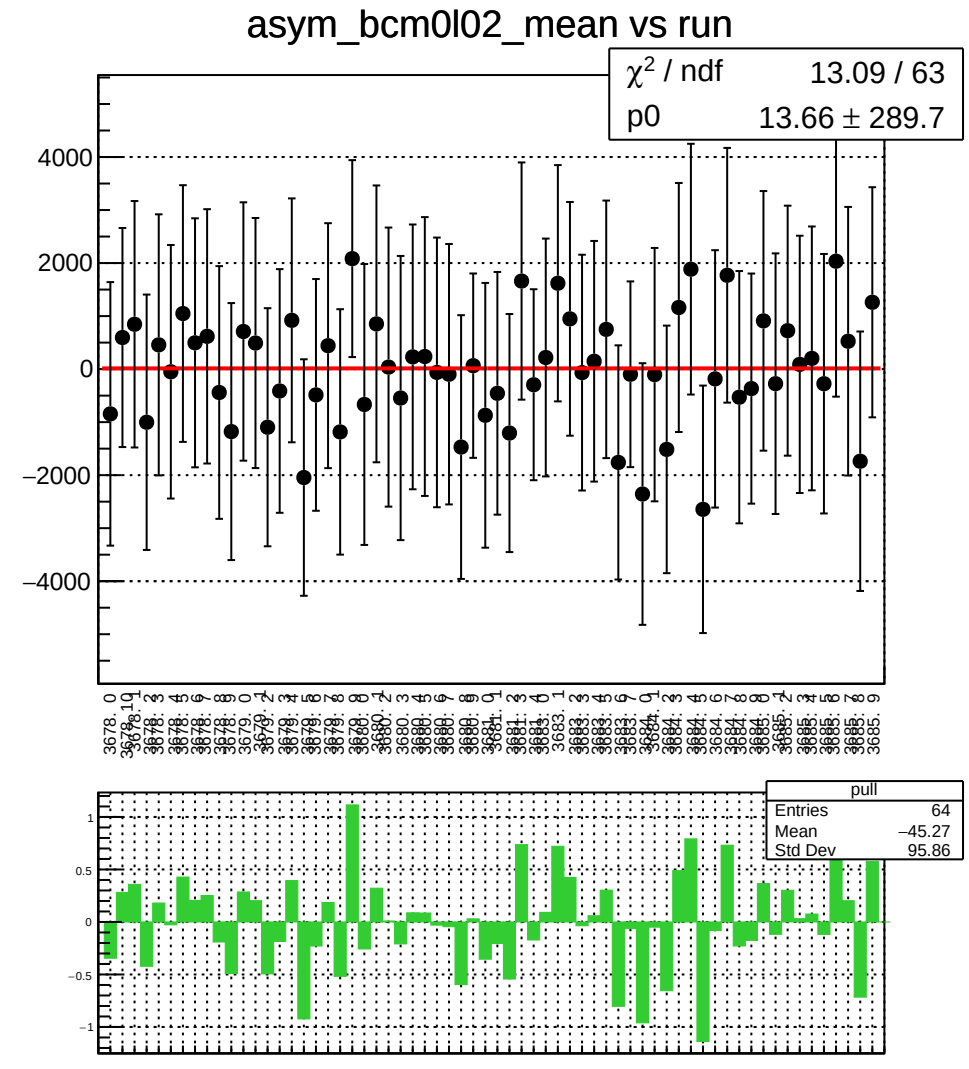

pull1D
Entries 64
Mean 0.002211
Std Dev 0.3682
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

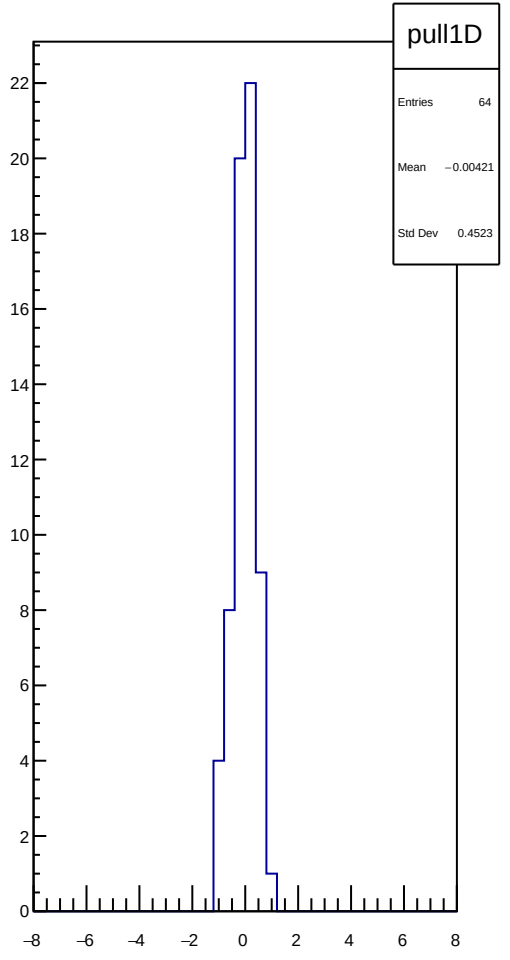

asym_cav4cQ_rms vs run
χ² / ndf 3213 / 63
p0 239.8 ± 0.2181
270
260
250
240
230
220
210

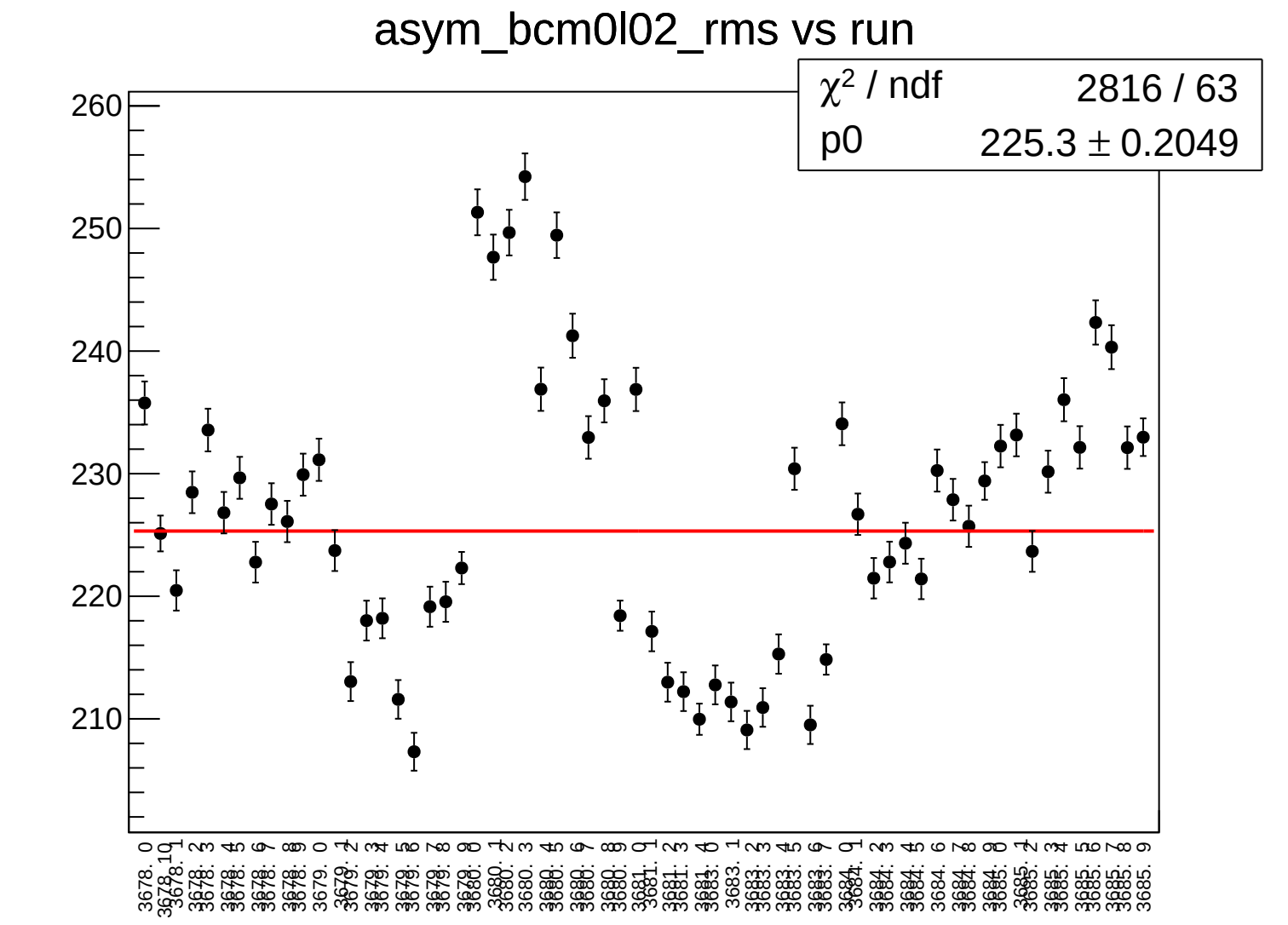

asym_cav4dQ_mean vs run
χ² / ndf 54.81 / 63
p0 −0.07152 ± 1.944
pull
Entries 64
Mean 290.8
Std Dev 245.4

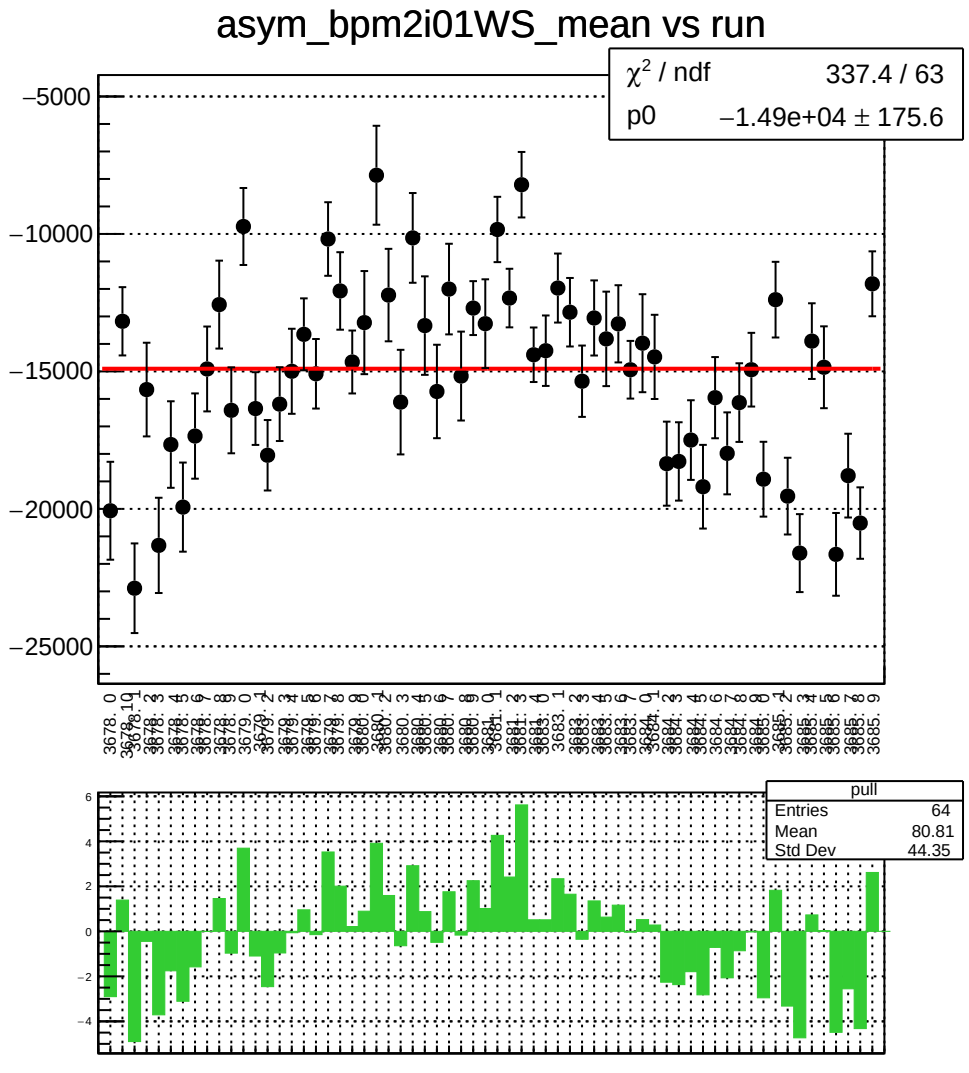

pull1D
Entries 64
Mean −0.003989
Std Dev 0.9254

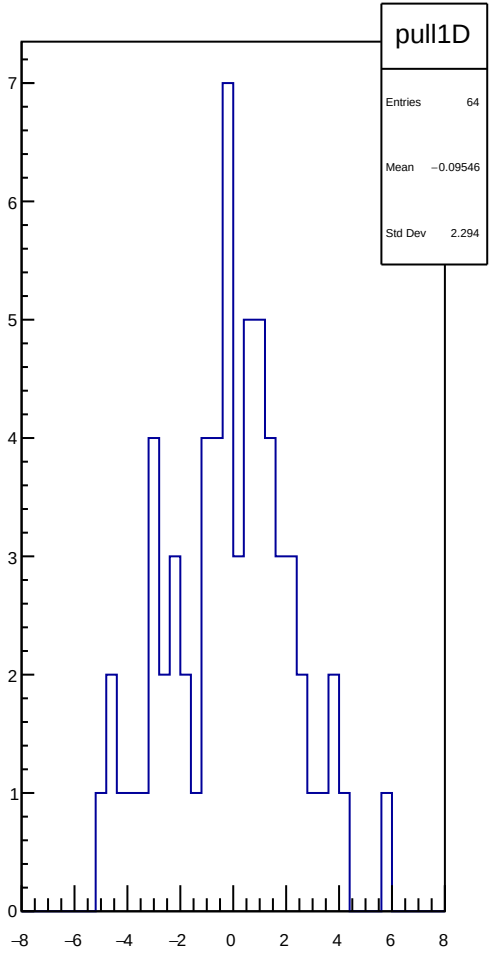

asym_cav4dQ_rms vs run
χ² / ndf 321.1 / 63
p0 1.513 ± 0.001375
1.6
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44

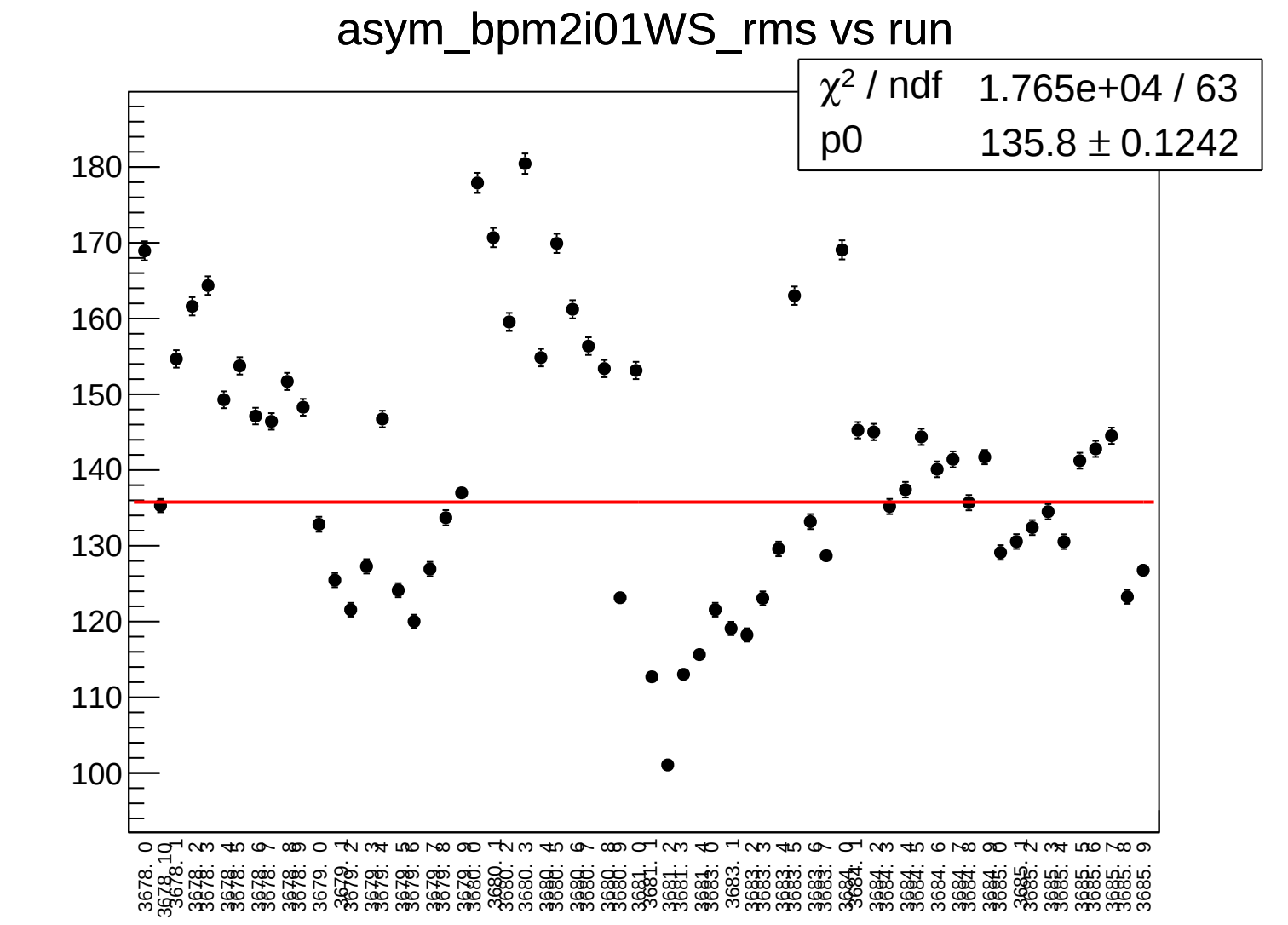

asym_bcm0l02_mean vs run
χ² / ndf 13.09 / 63
p0 13.66 ± 289.7
4000
2000
0
−2000
−4000
pull
Entries 64
Mean −45.27
Std Dev 95.86
1
0.5
0
−0.5
−1

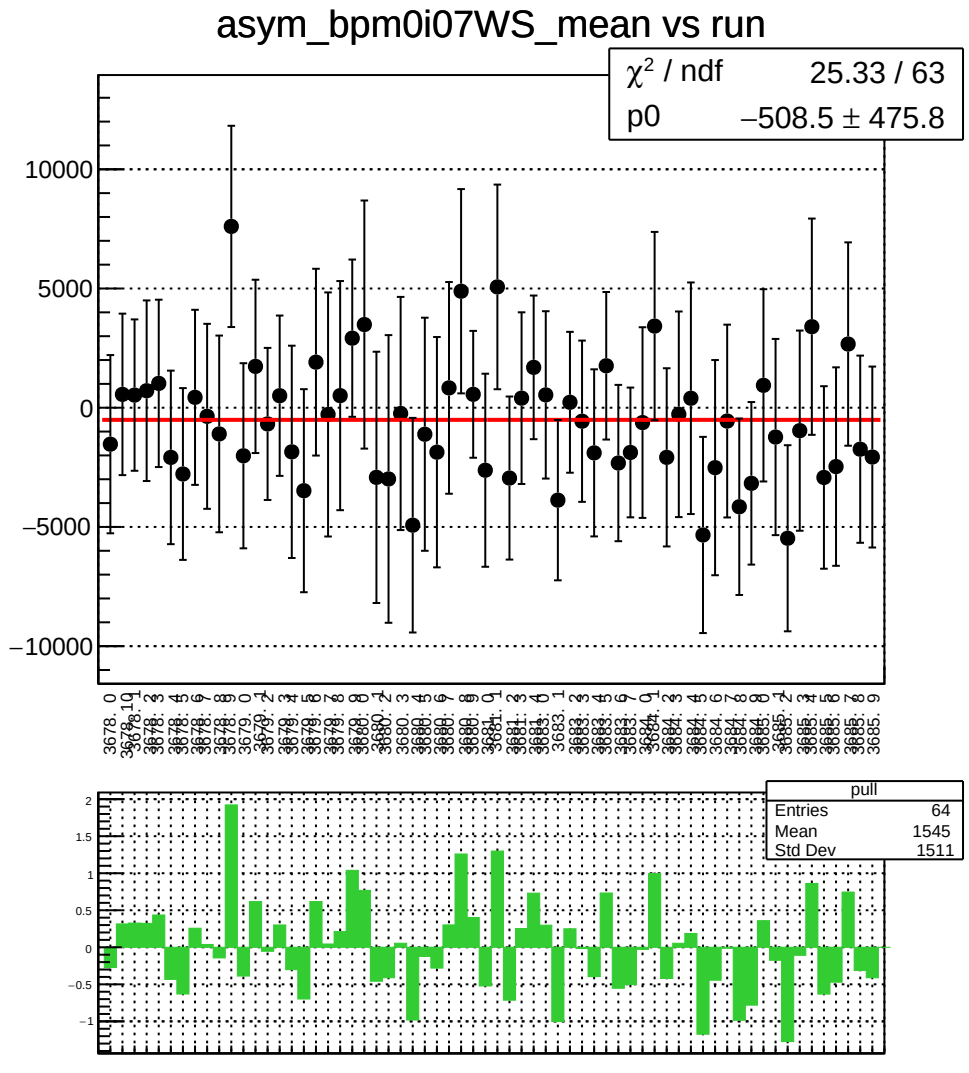

pull1D
Entries 64
Mean −0.00421
Std Dev 0.4523
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

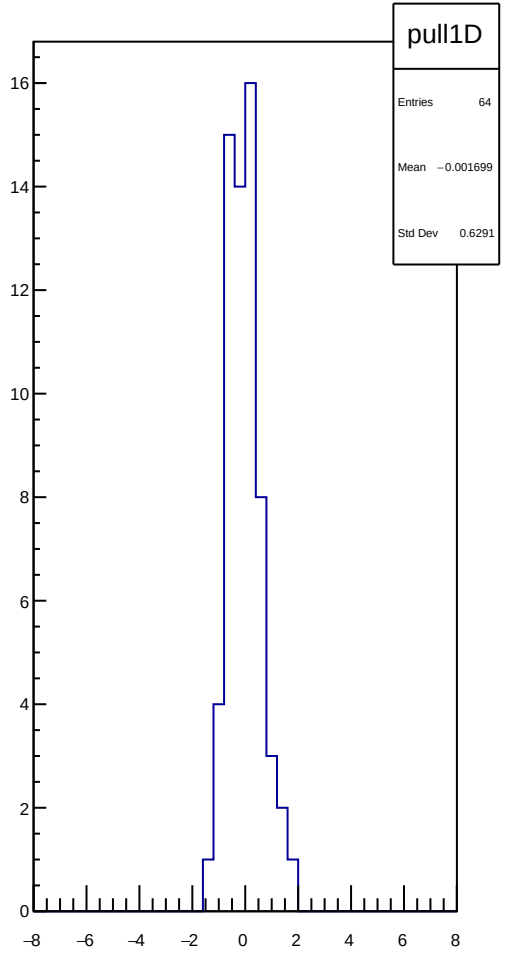

asym_bcm0l02_rms vs run
χ² / ndf 2816 / 63
p0 225.3 ± 0.2049
260
250
240
230
220
210

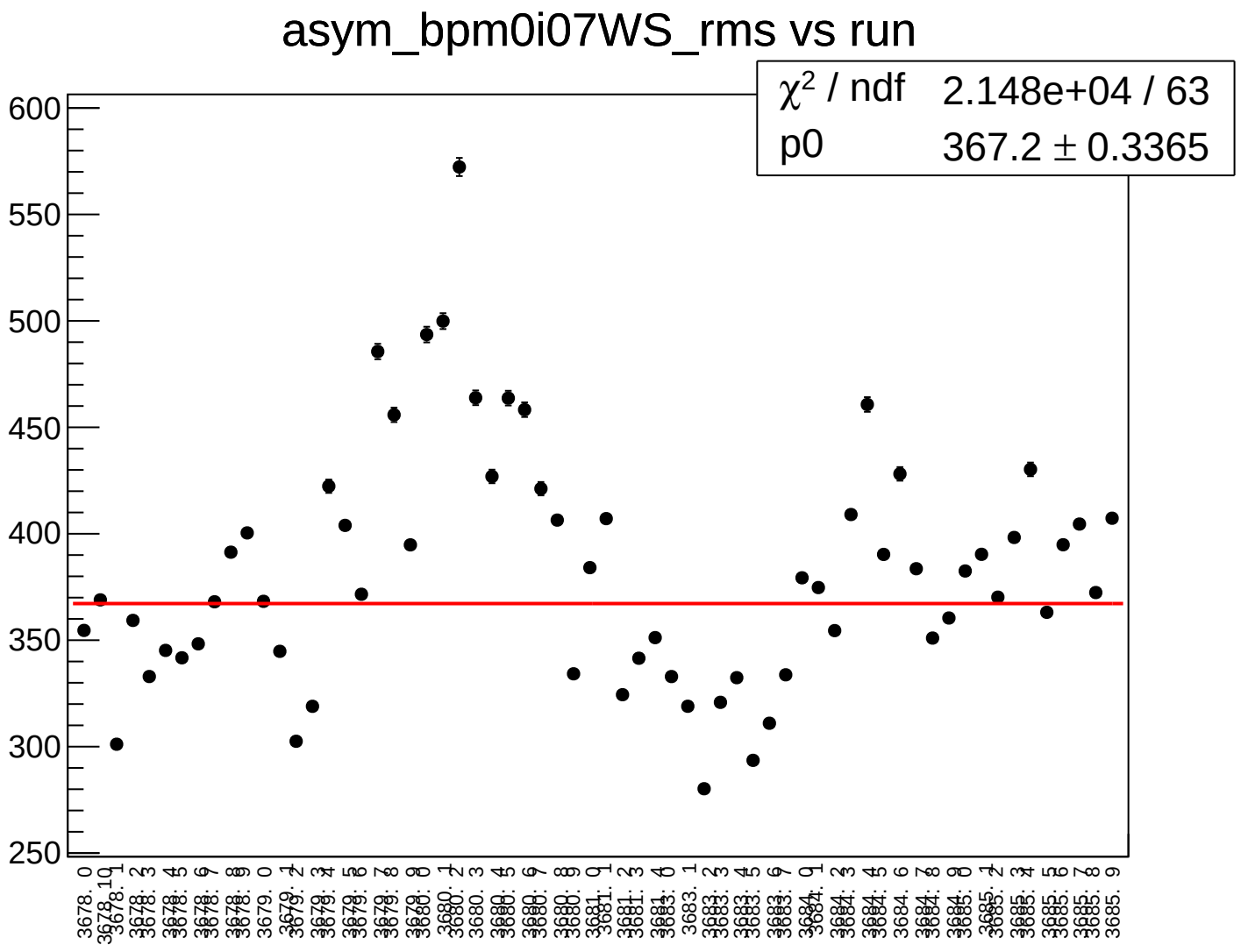

asym_bpm2i01WS_mean vs run
χ² / ndf 337.4 / 63
p0 −1.49e+04 ± 175.6
−5000
−10000
−15000
−20000
−25000
pull
Entries 64
Mean 80.81
Std Dev 44.35
6
4
2
0
−2
−4

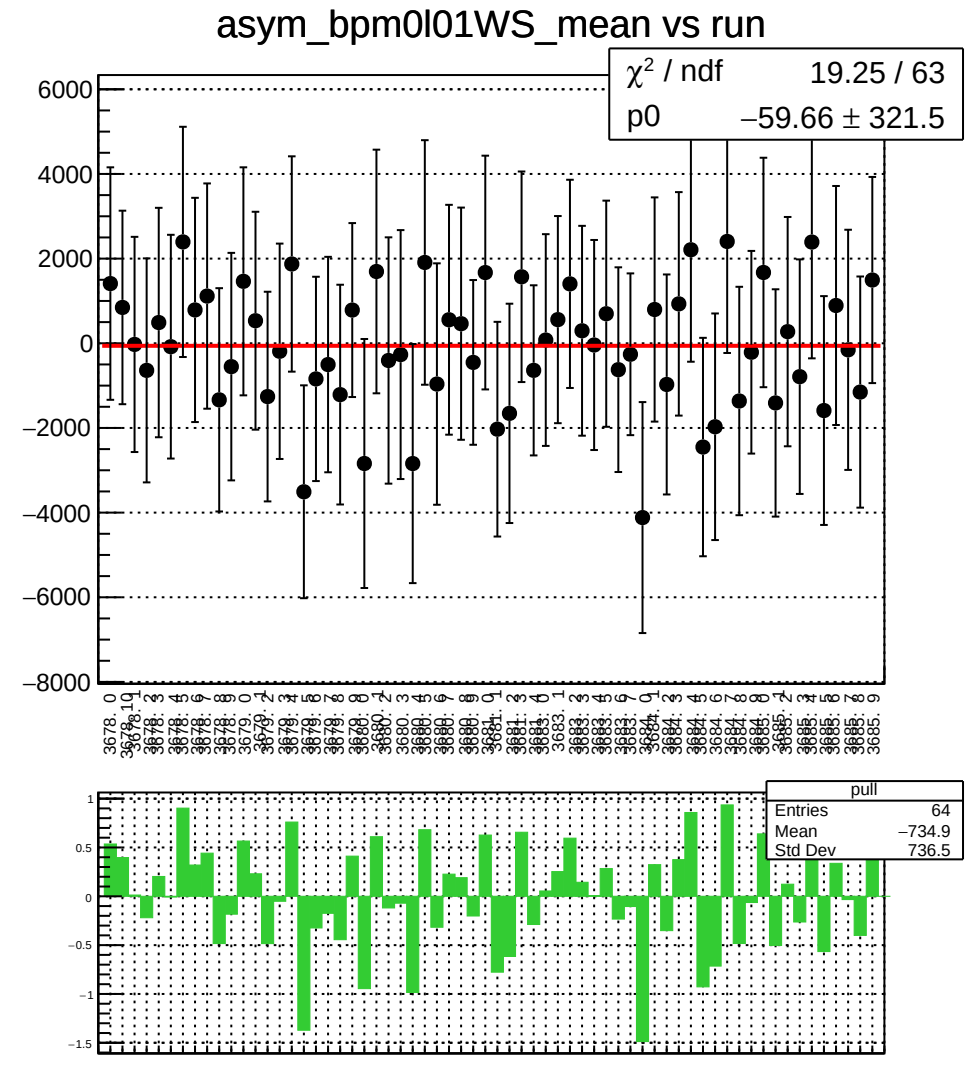

pull1D
Entries 64
Mean −0.09546
Std Dev 2.294
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

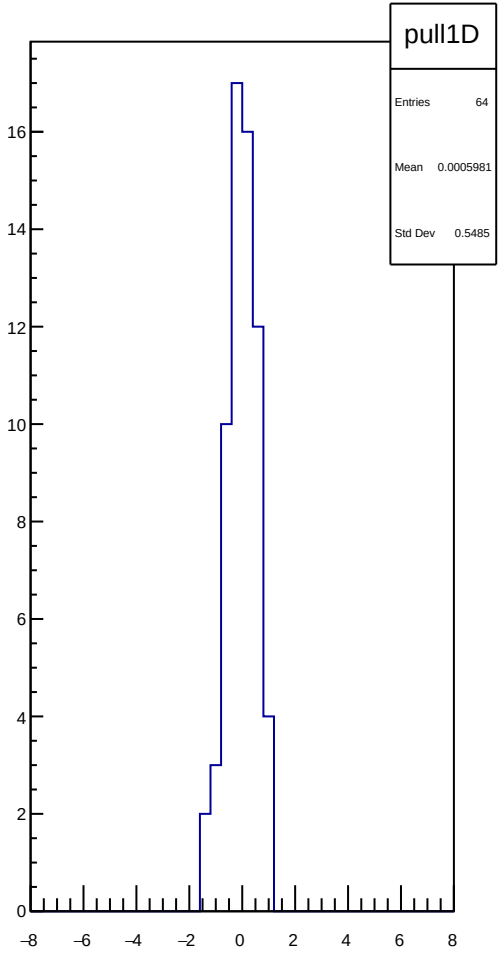

asym_bpm2i01WS_rms vs run
χ² / ndf 1.765e+04 / 63
p0 135.8 ± 0.1242
180
170
160
150
140
130
120
110
100

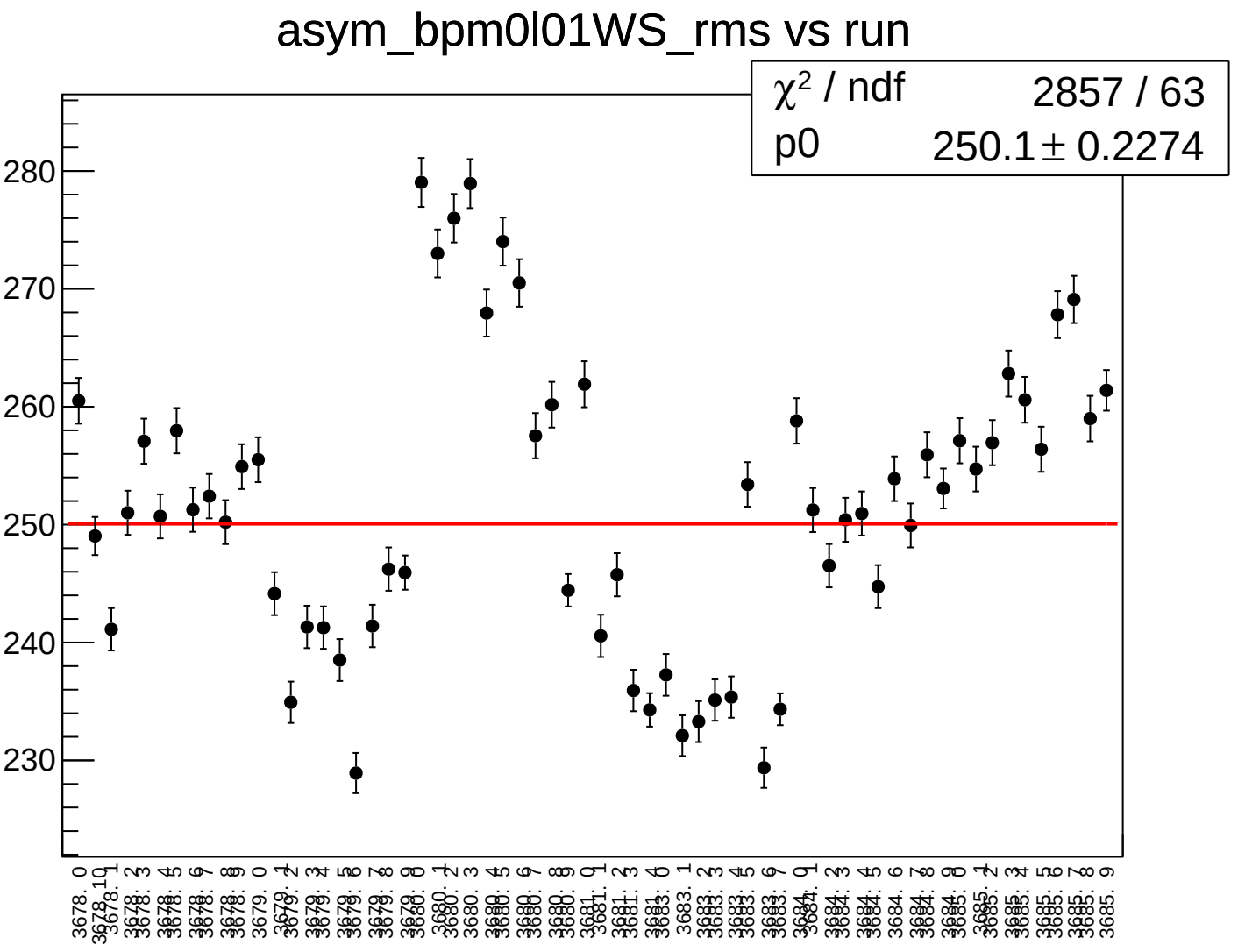

asym_bpm0i07WS_mean vs run
χ² / ndf 25.33 / 63
p0 −508.5 ± 475.8
10000
5000
0
−5000
−10000
pull
Entries 64
Mean 1545
Std Dev 1511
2
1.5
1
0.5
0
−0.5
−1

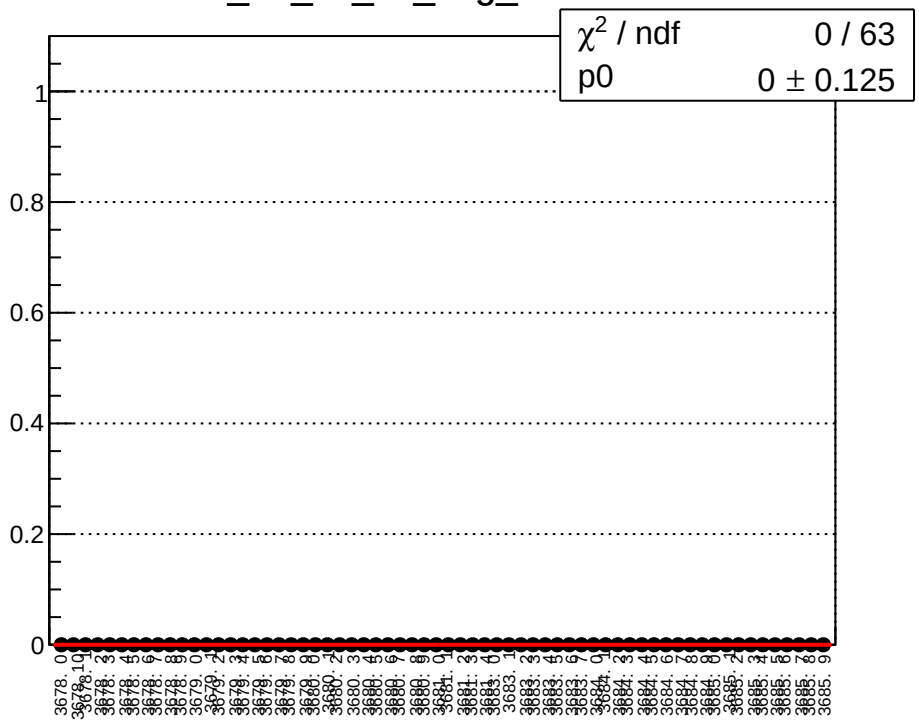

pull1D
Entries 64
Mean −0.001699
Std Dev 0.6291
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

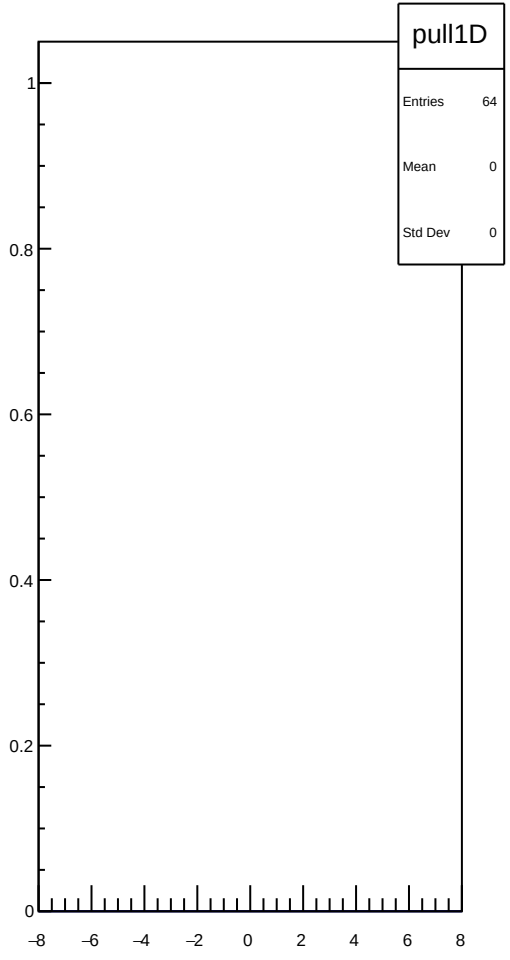

asym_bpm0i07WS_rms vs run
$\chi^2$ / ndf 2.148e+04 / 63
p0 367.2 ± 0.3365
600
550
500
450
400
350
300
250

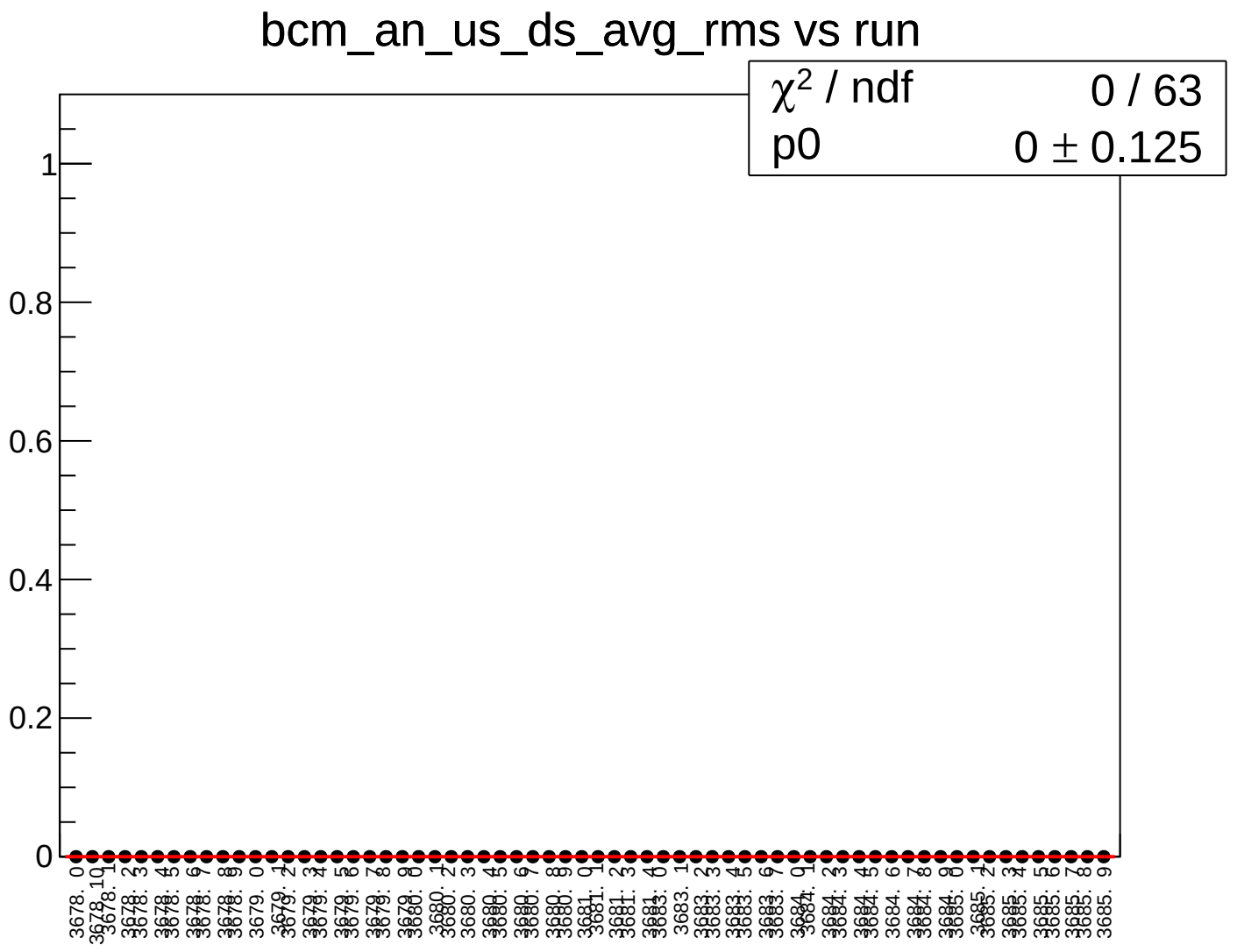

asym_bpm0l01WS_mean vs run
χ² / ndf 19.25 / 63
p0 −59.66 ± 321.5
pull
Entries 64
Mean −734.9
Std Dev 736.5

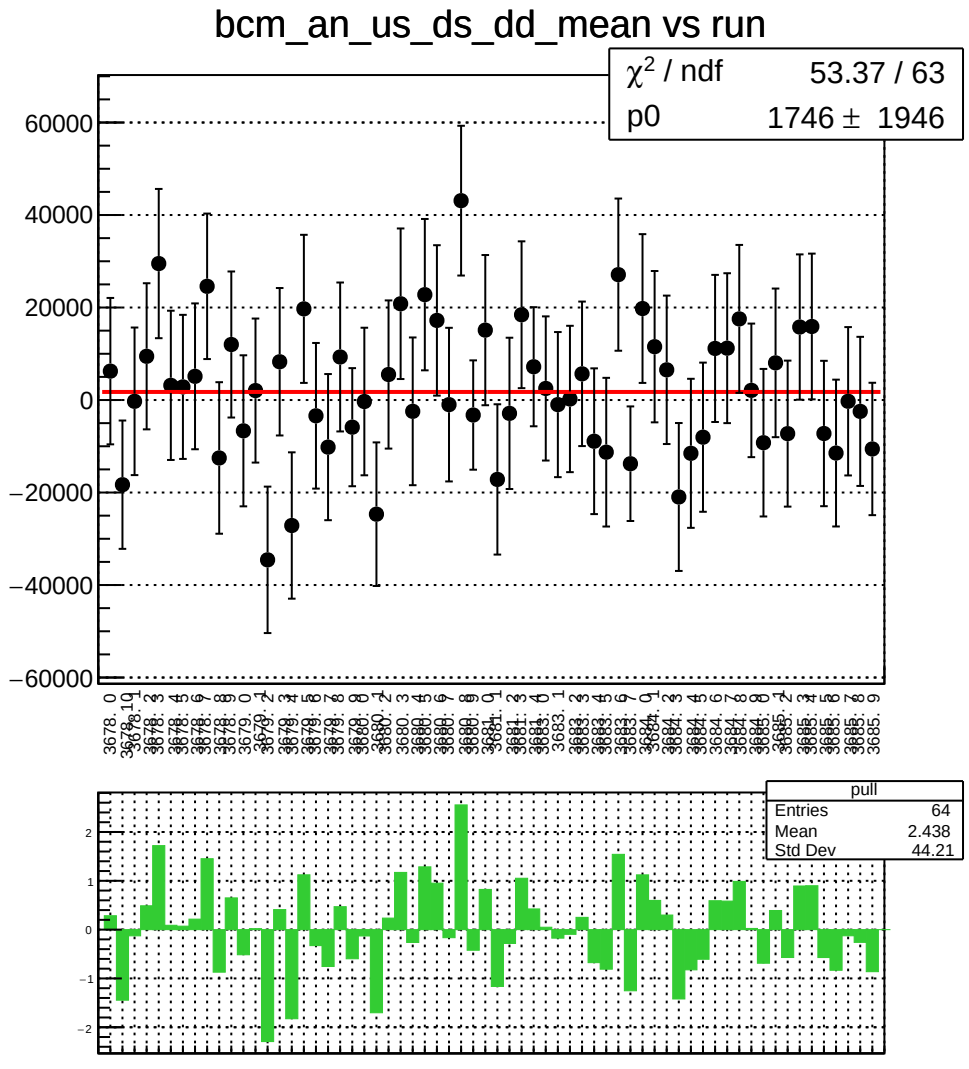

pull1D
Entries 64
Mean 0.0005981
Std Dev 0.5485

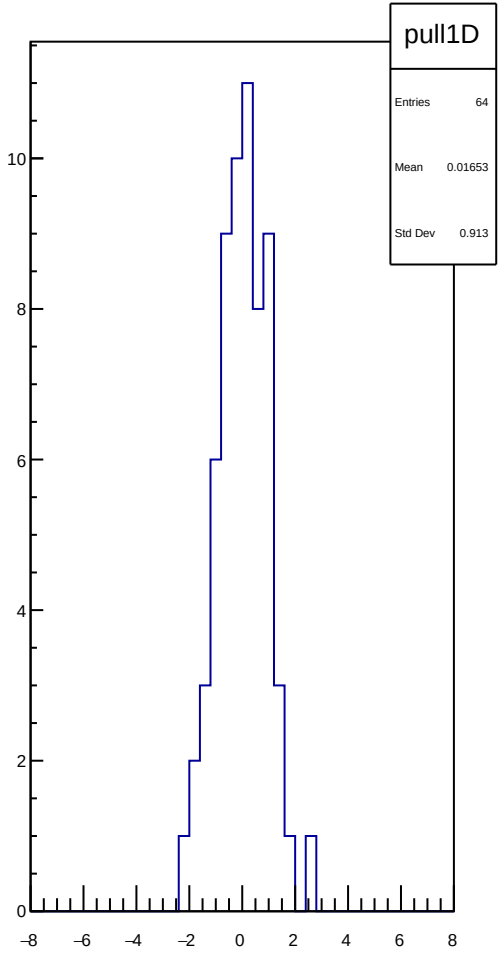

asym_bpm0l01WS_rms vs run
χ² / ndf 2857 / 63
p0 250.1 ± 0.2274
280
270
260
250
240
230

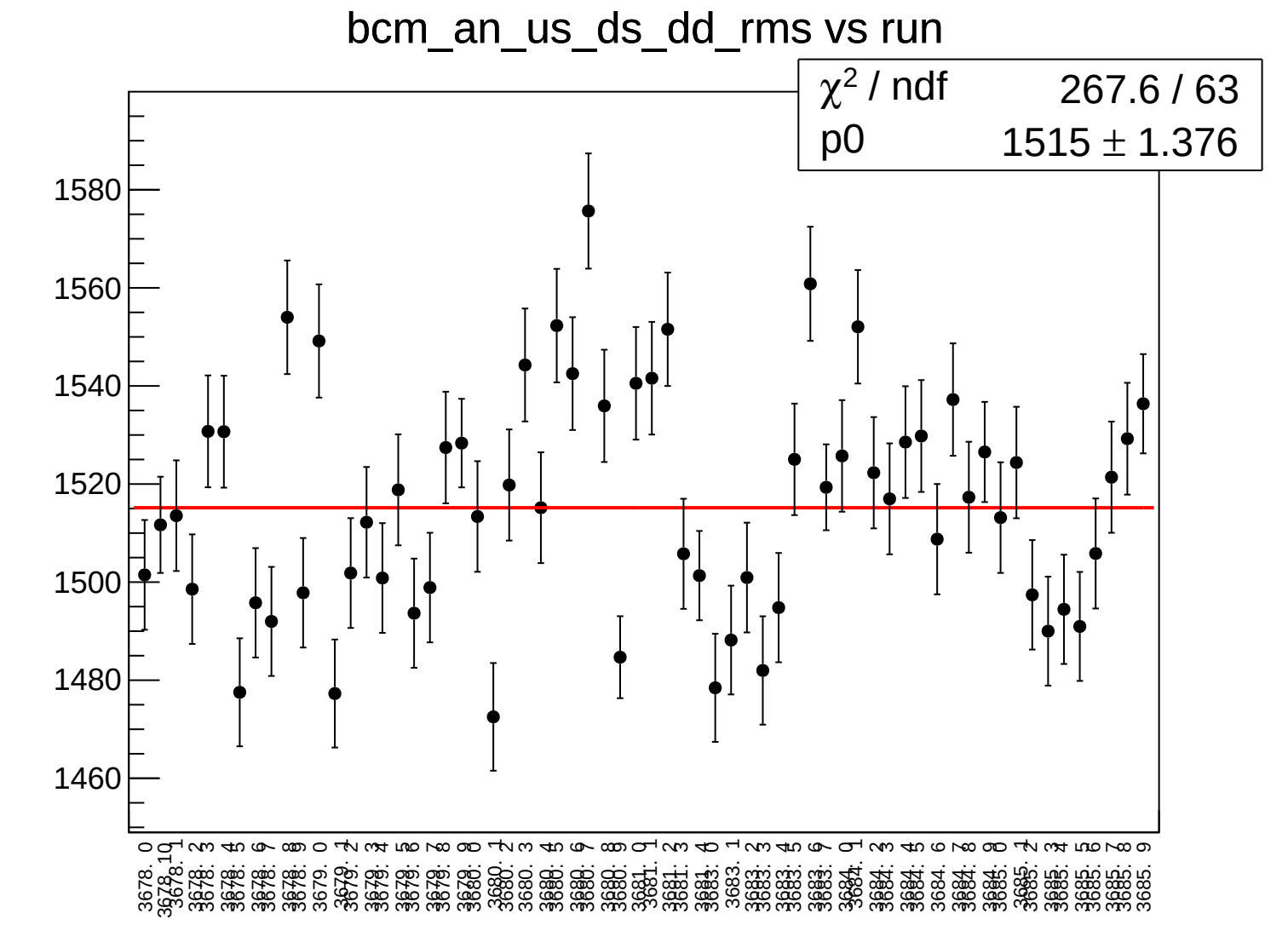

bcm_an_us_ds_avg_mean vs run
$\chi^2$ / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

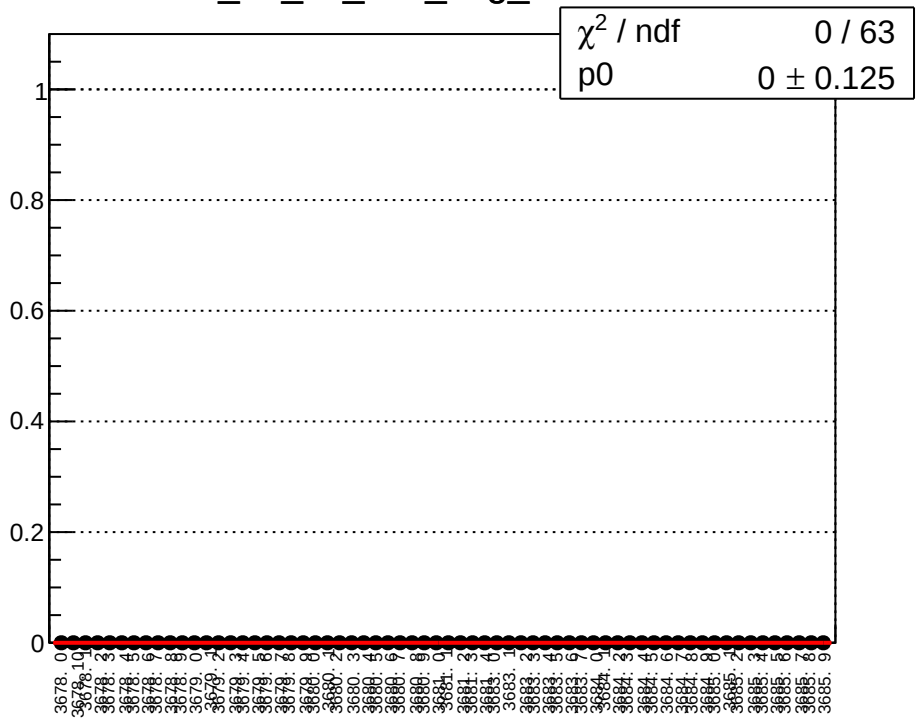

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

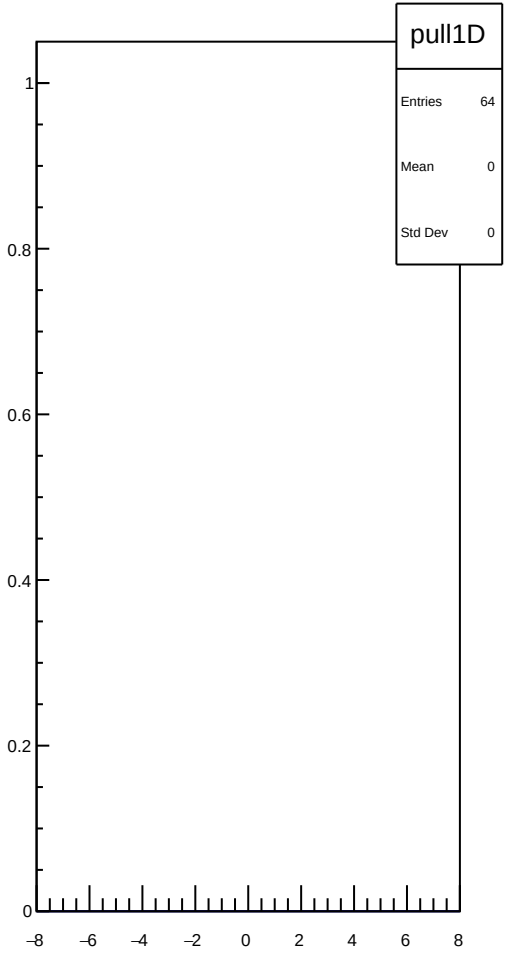

bcm_an_us_ds_avg_rms vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

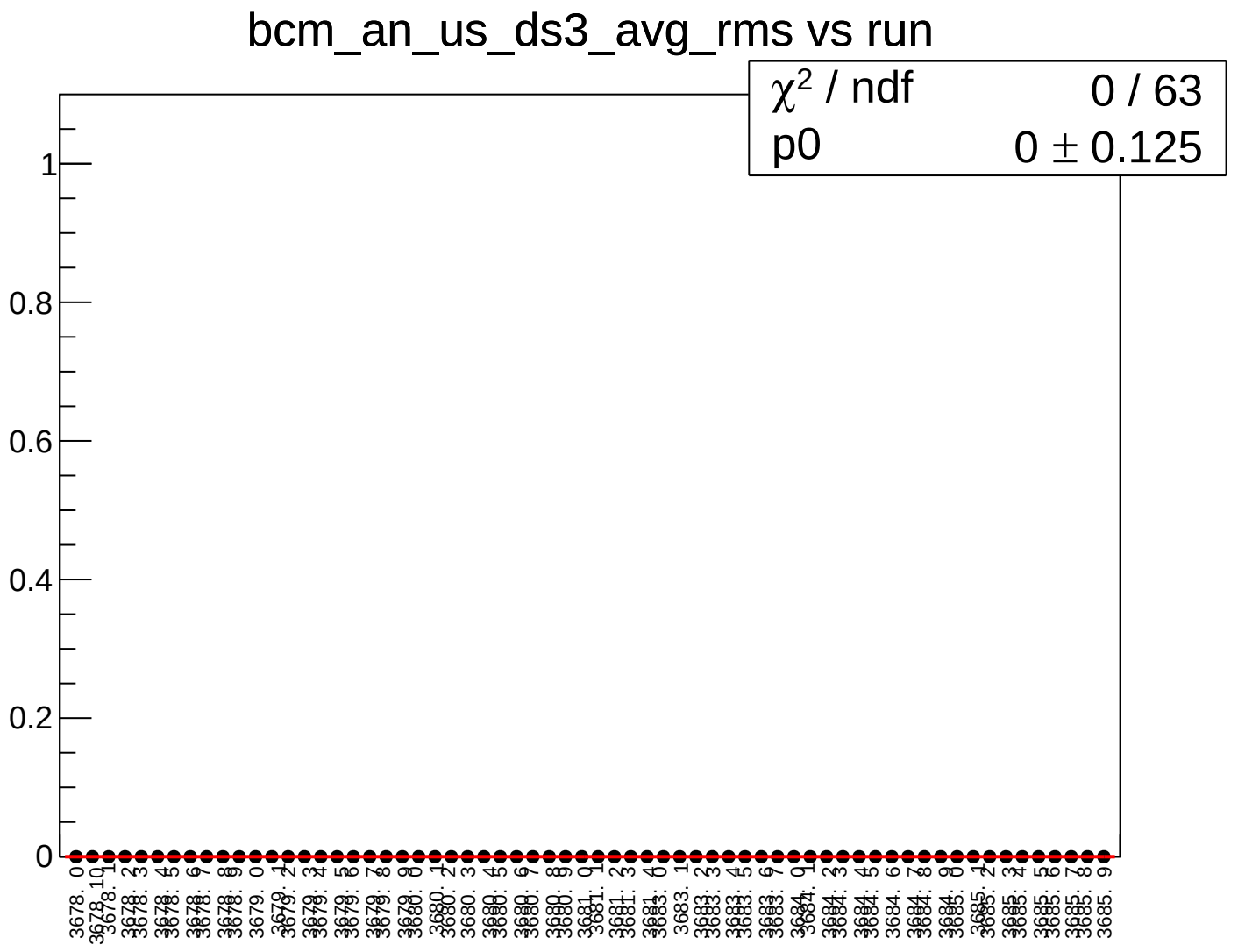

bcm_an_us_ds_dd_mean vs run
χ² / ndf 53.37 / 63
p0 1746 ± 1946
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 64
Mean 2.438
Std Dev 44.21
2
1
0
−1
−2

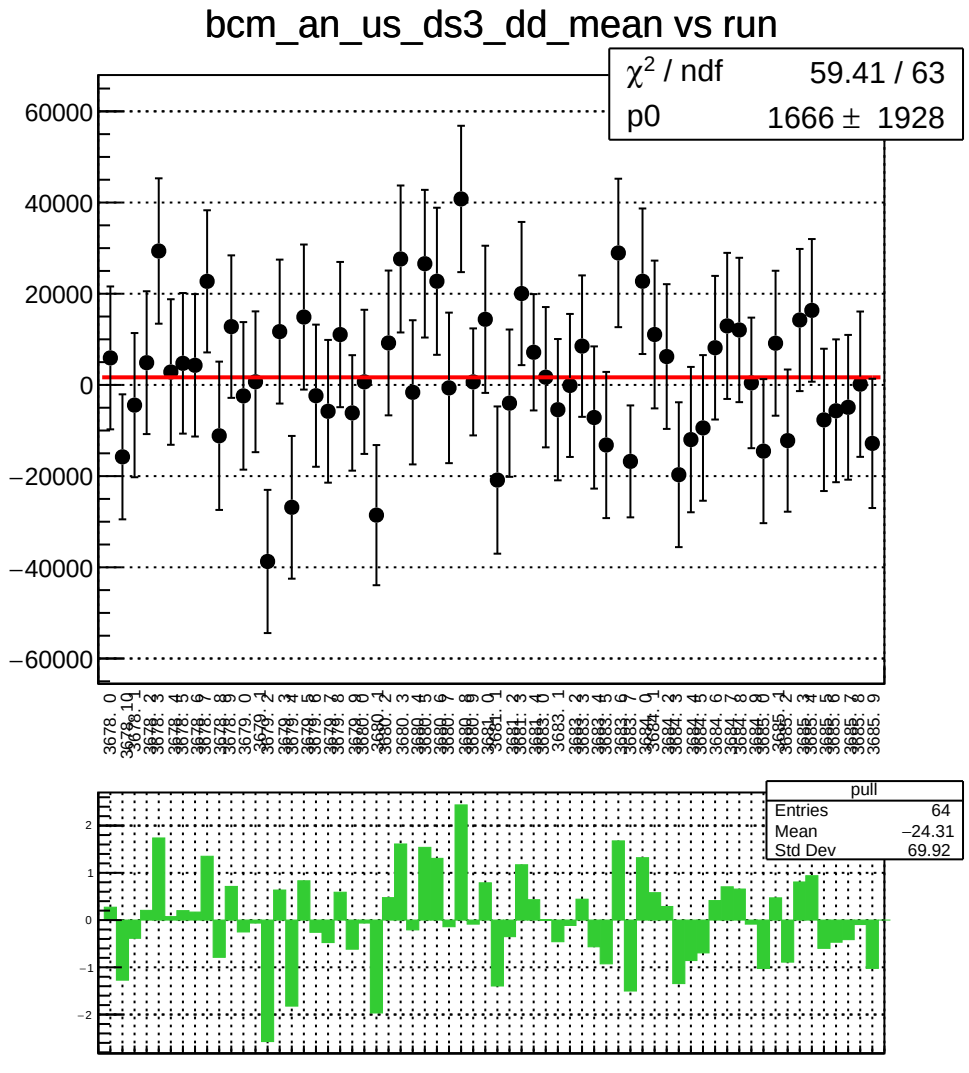

pull1D
Entries 64
Mean 0.01653
Std Dev 0.913
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

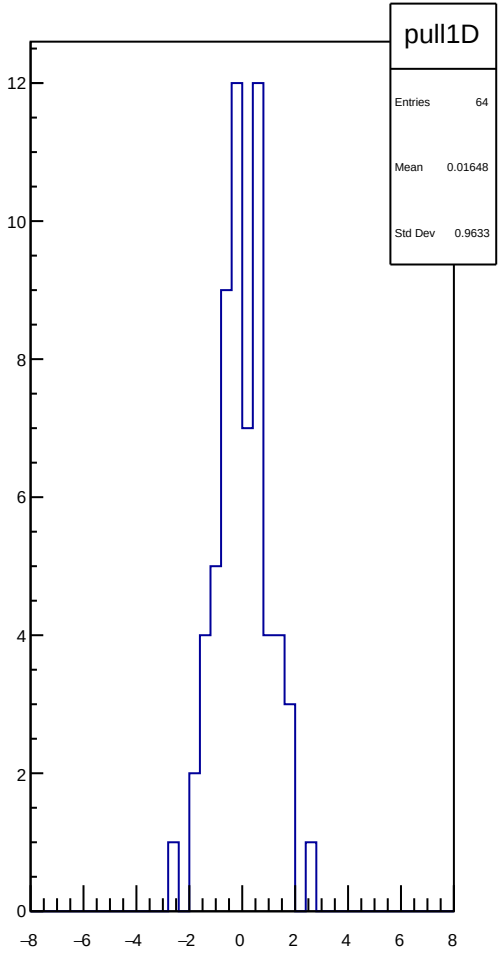

bcm_an_us_ds_dd_rms vs run
χ² / ndf 267.6 / 63
p0 1515 ± 1.376
1580
1560
1540
1520
1500
1480
1460

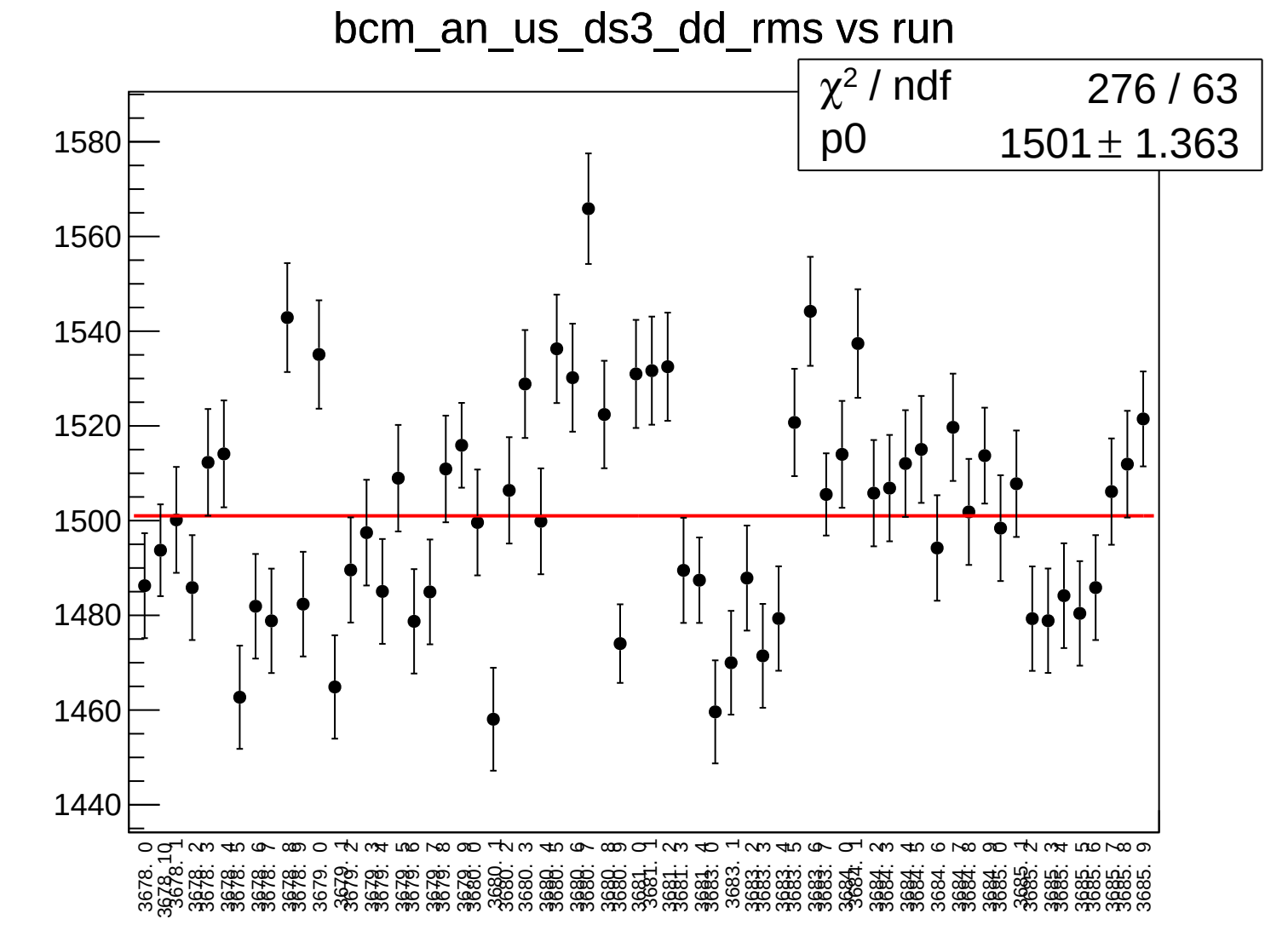

bcm_an_us_ds3_avg_mean vs run
$\chi^2$ / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

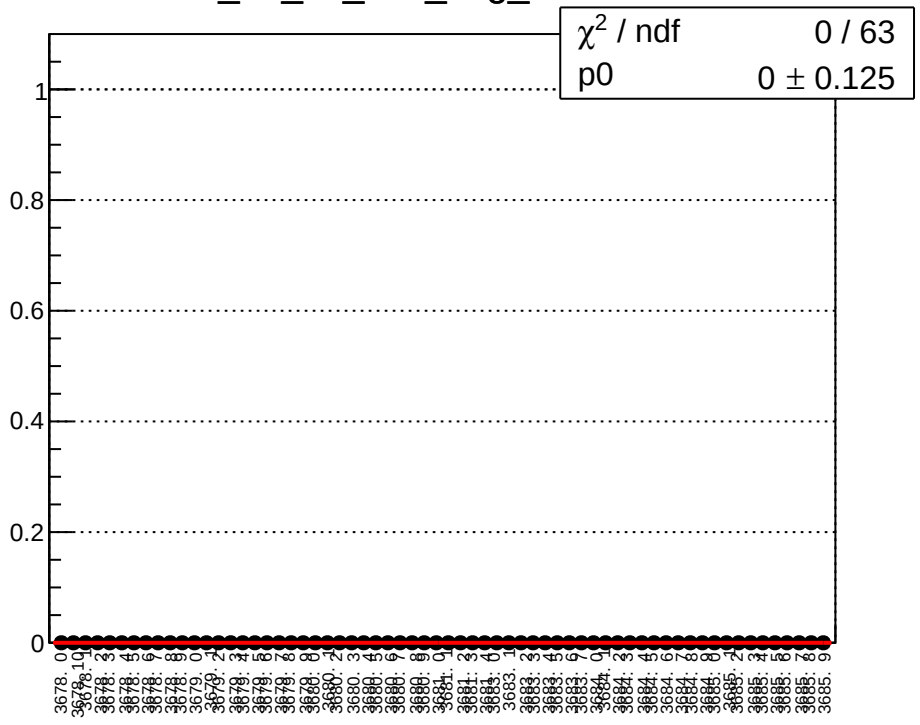

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

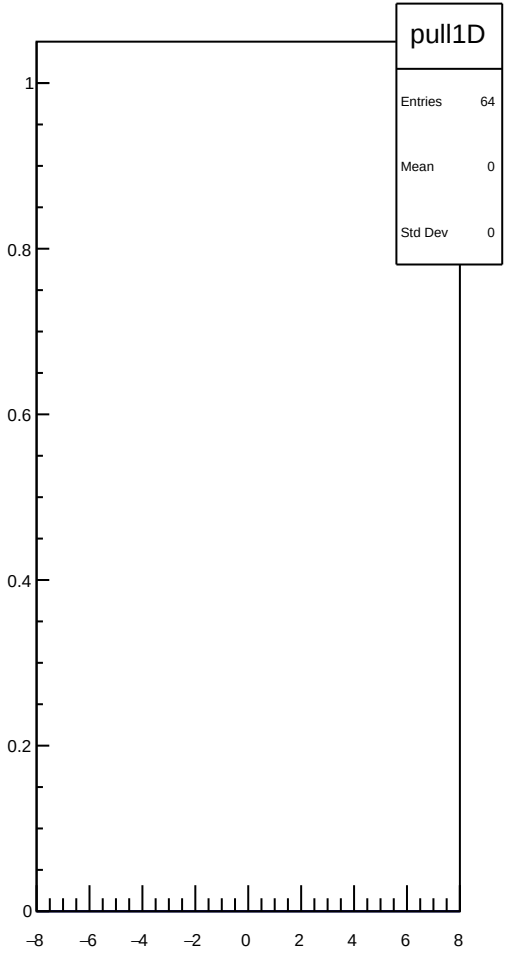

bcm_an_us_ds3_avg_rms vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

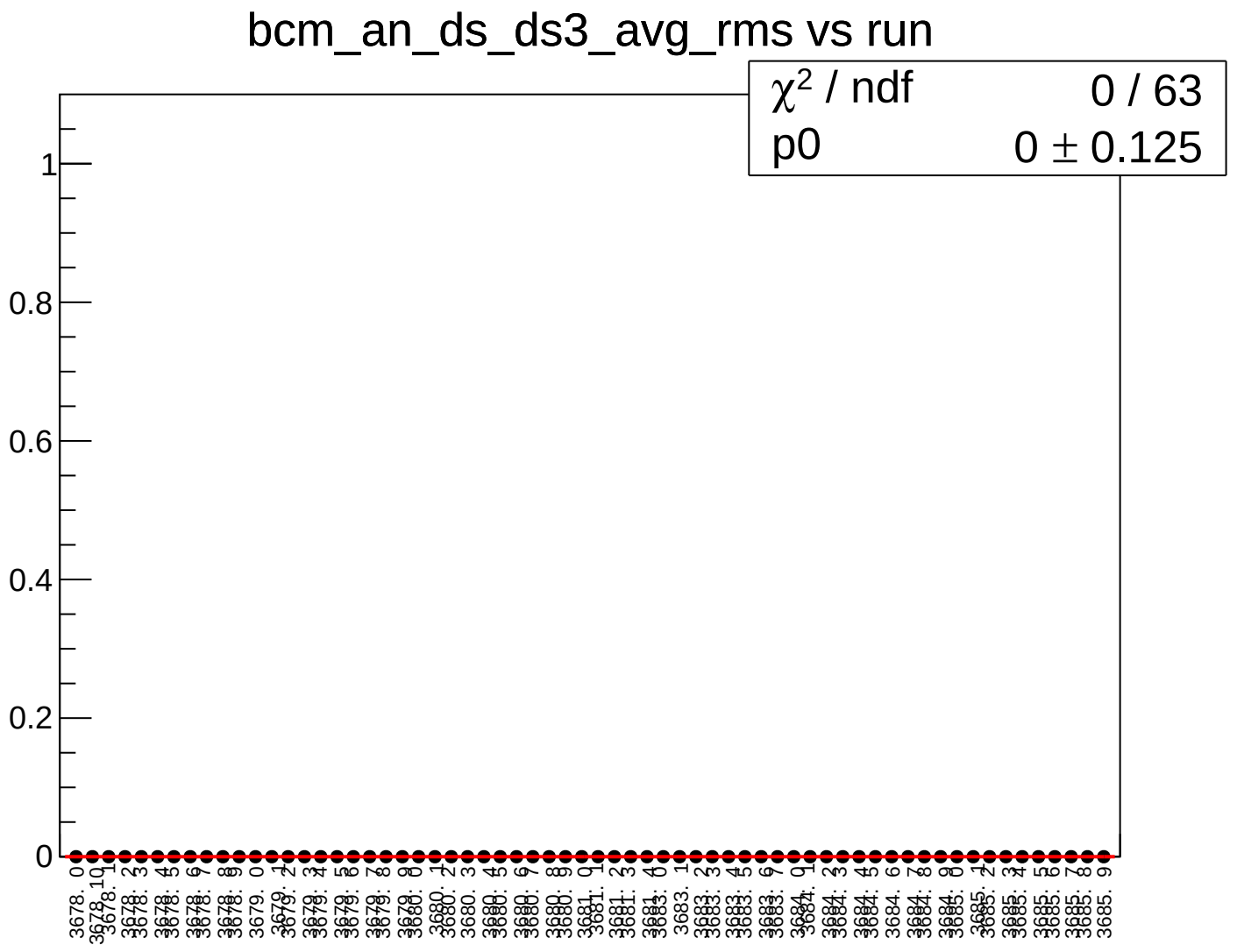

bcm_an_us_ds3_dd_mean vs run
χ² / ndf 59.41 / 63
p0 1666 ± 1928
pull
Entries 64
Mean −24.31
Std Dev 69.92

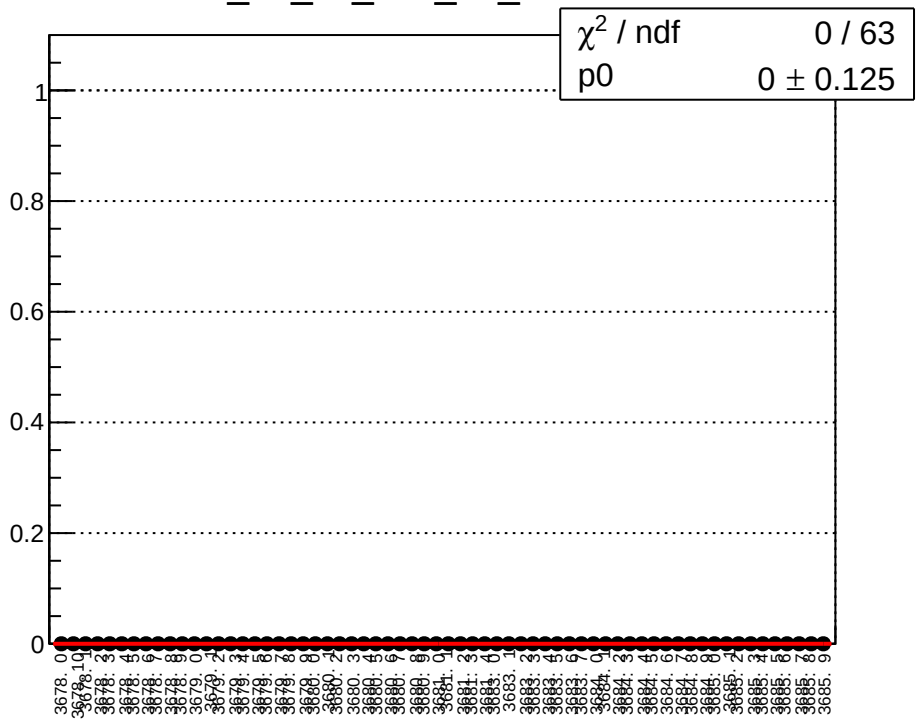

pull1D
Entries 64
Mean 0.01648
Std Dev 0.9633

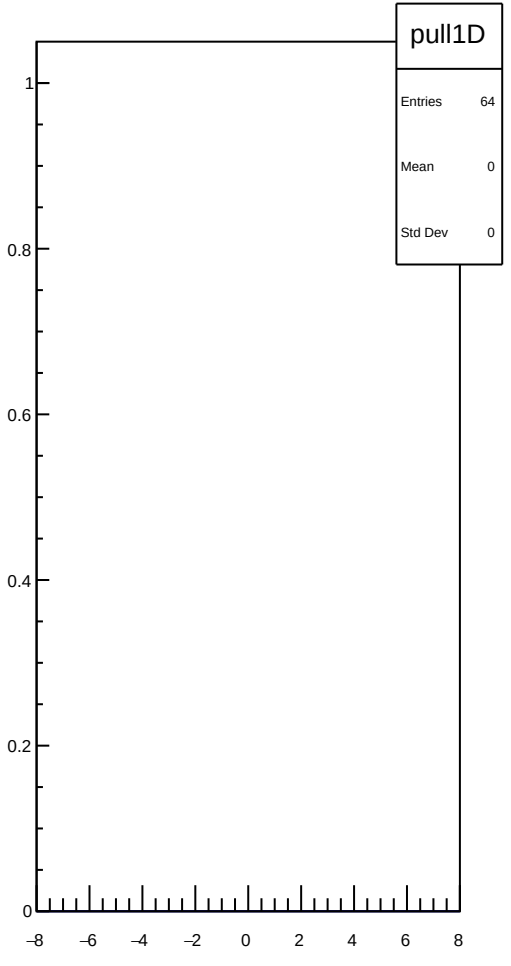

bcm_an_us_ds3_dd_rms vs run
χ² / ndf 276 / 63
p0 1501 ± 1.363
1580
1560
1540
1520
1500
1480
1460
1440

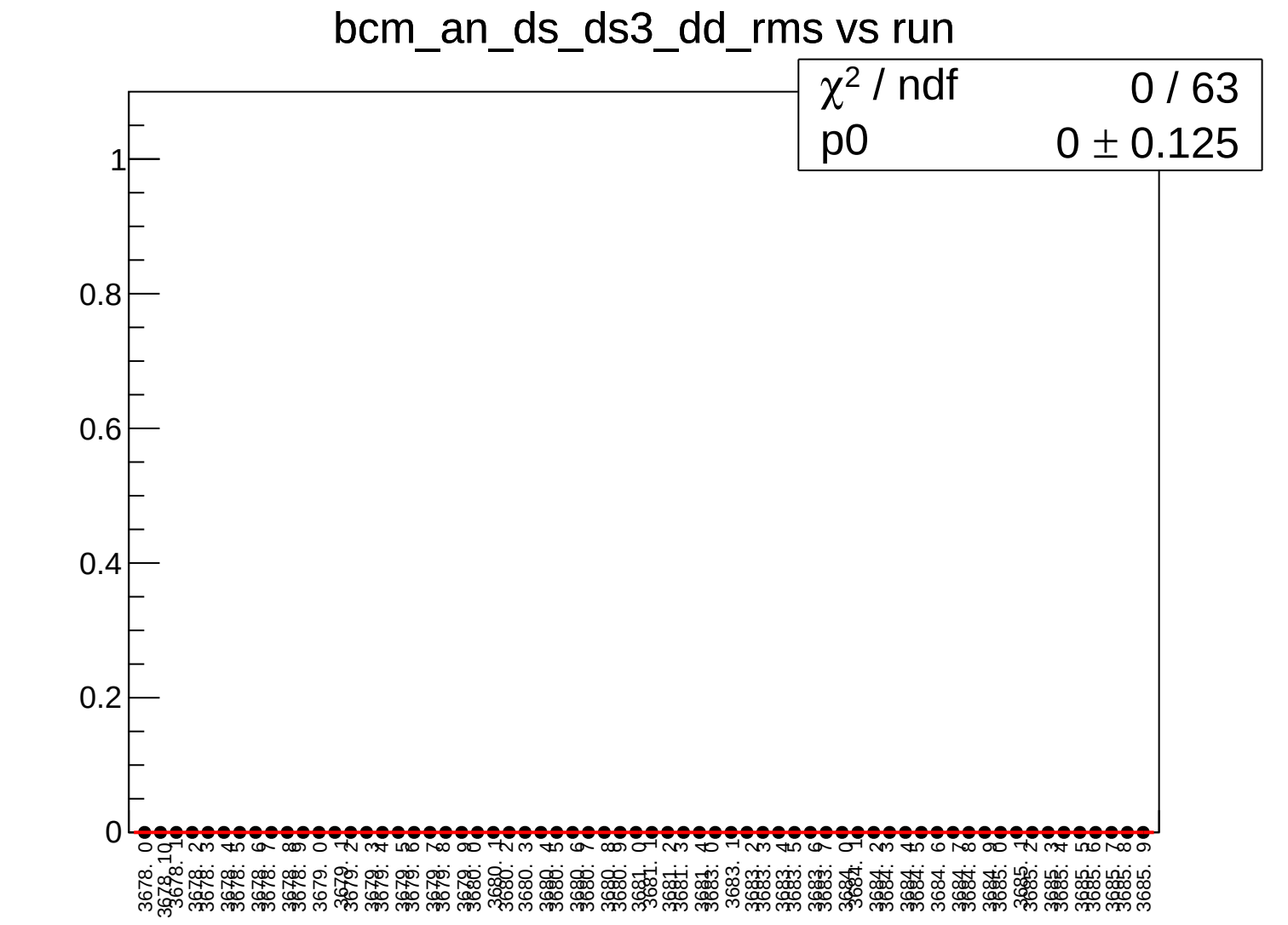

bcm_an_ds_ds3_avg_mean vs run
$\chi^2$ / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

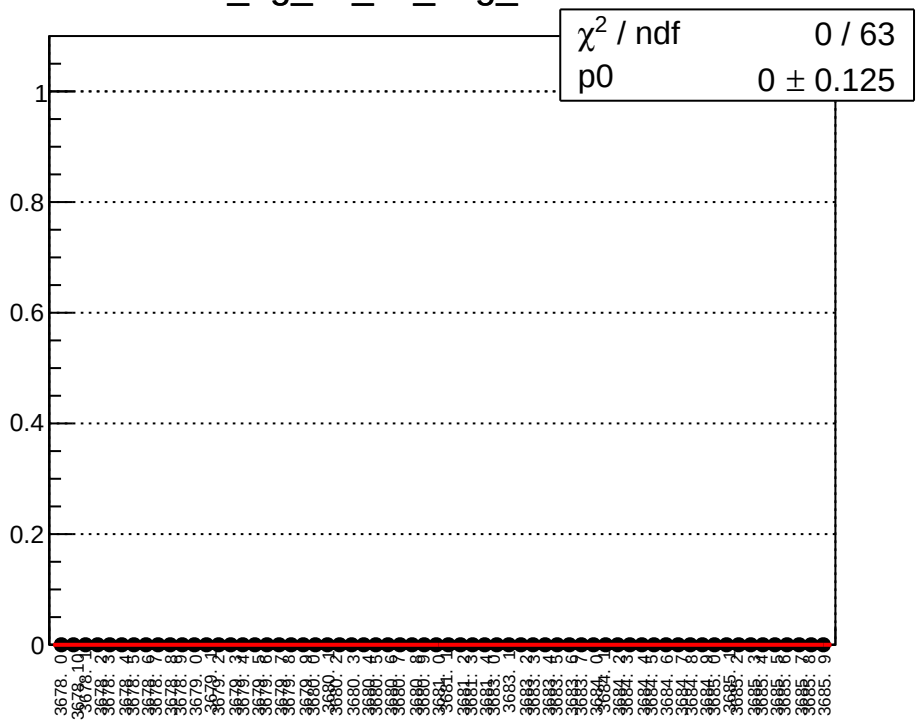

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

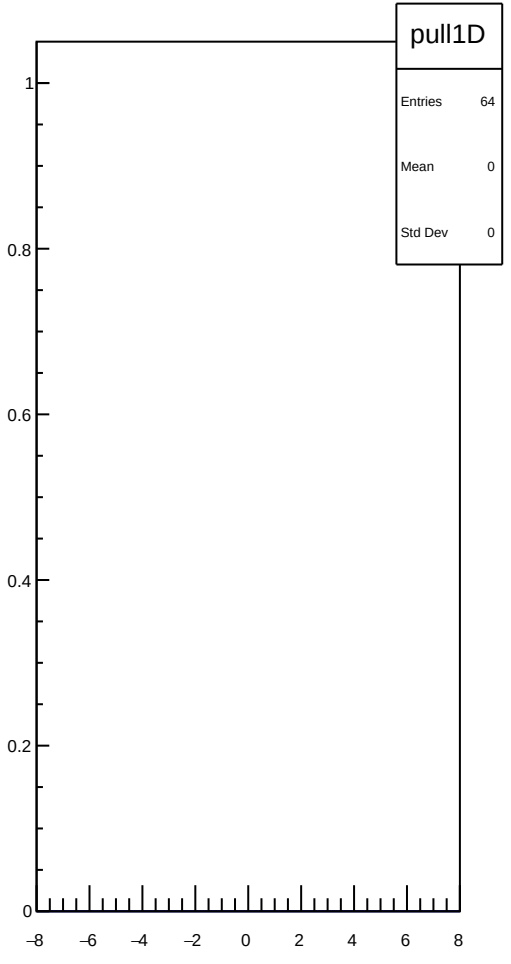

bcm_an_ds_ds3_avg_rms vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

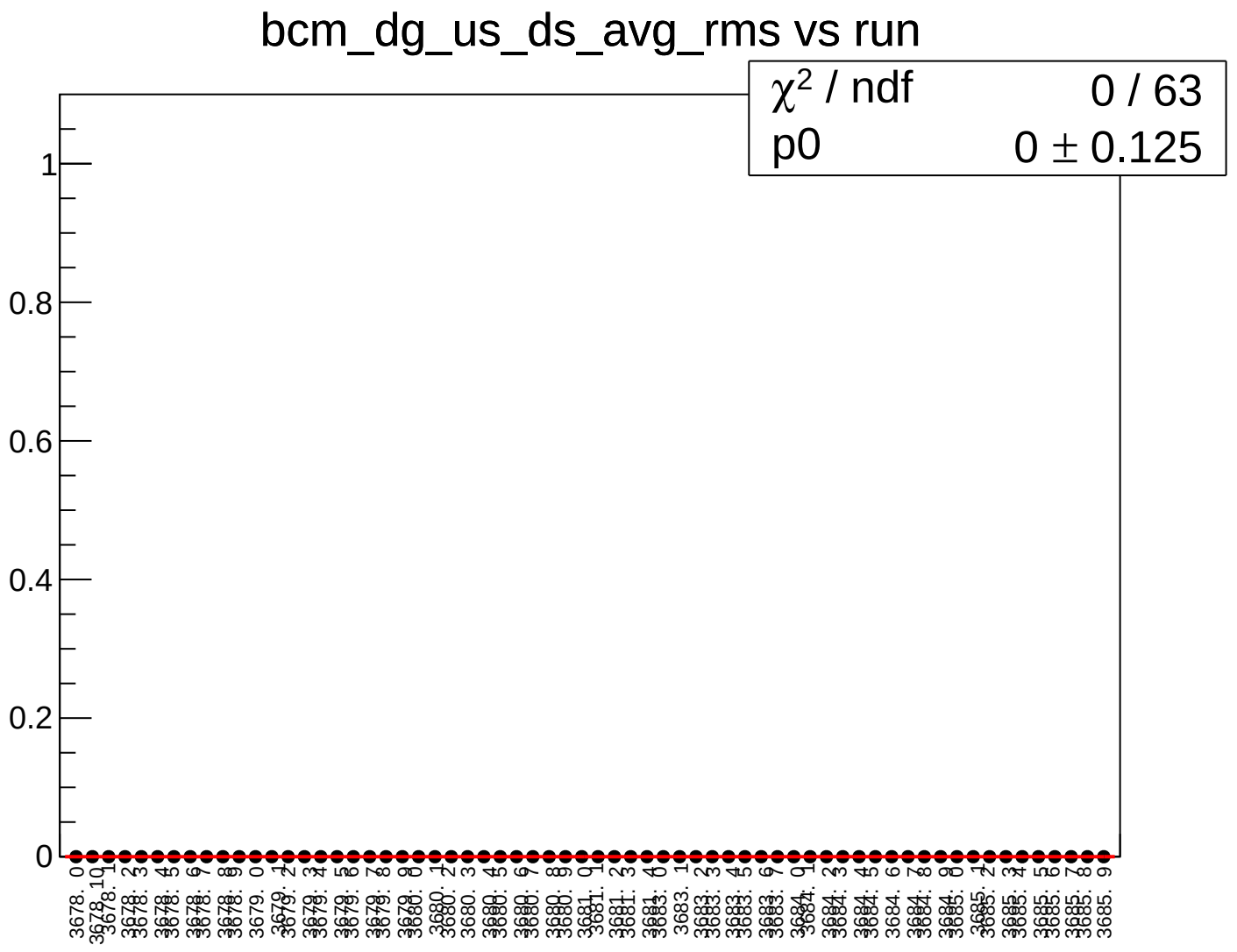

bcm_an_ds_ds3_dd_mean vs run
$\chi^2$ / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

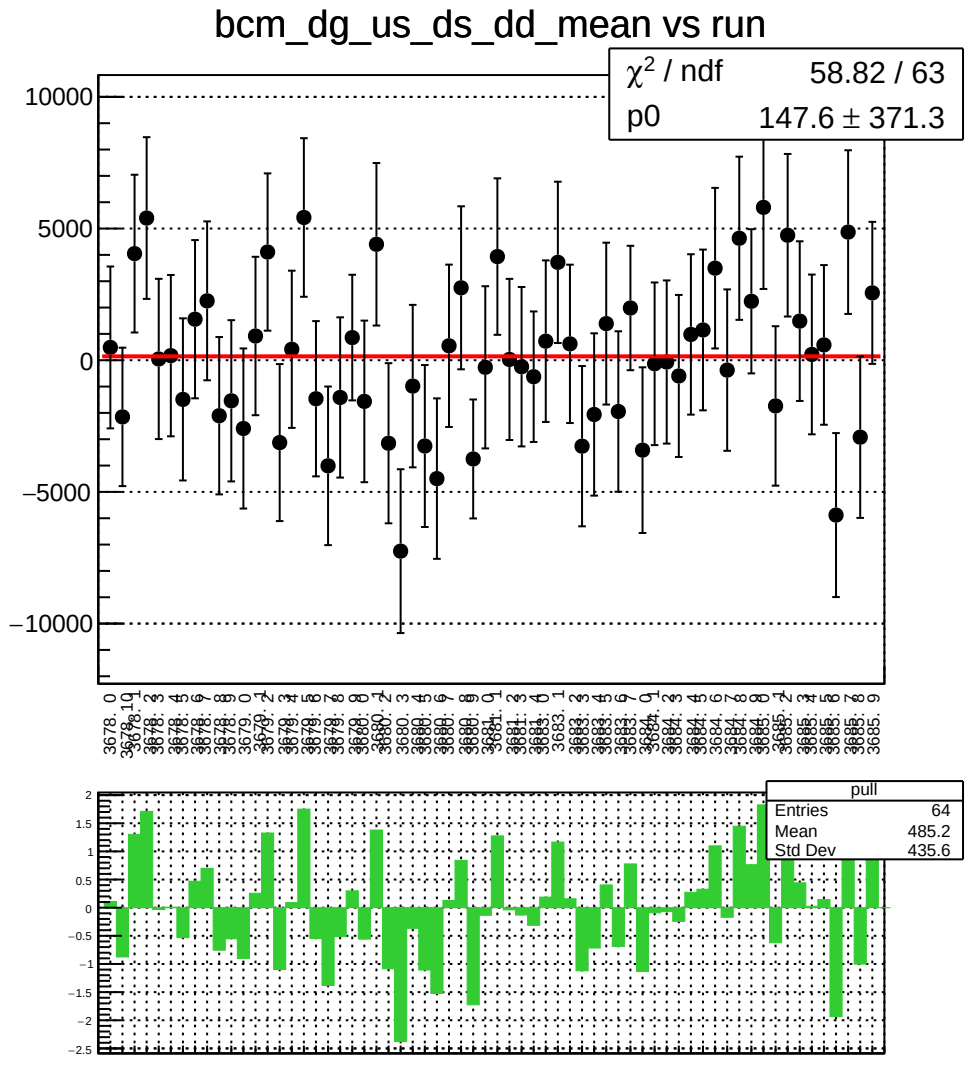

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

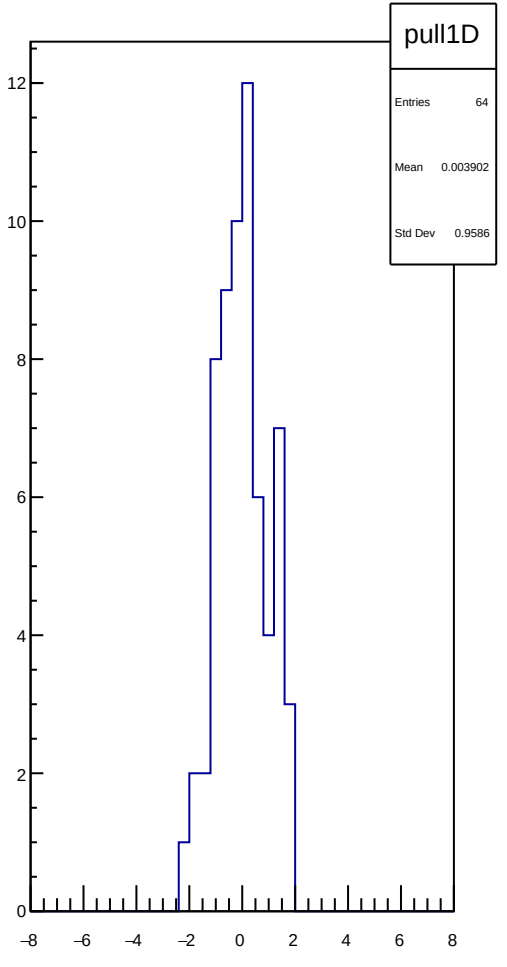

bcm_an_ds_ds3_dd_rms vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

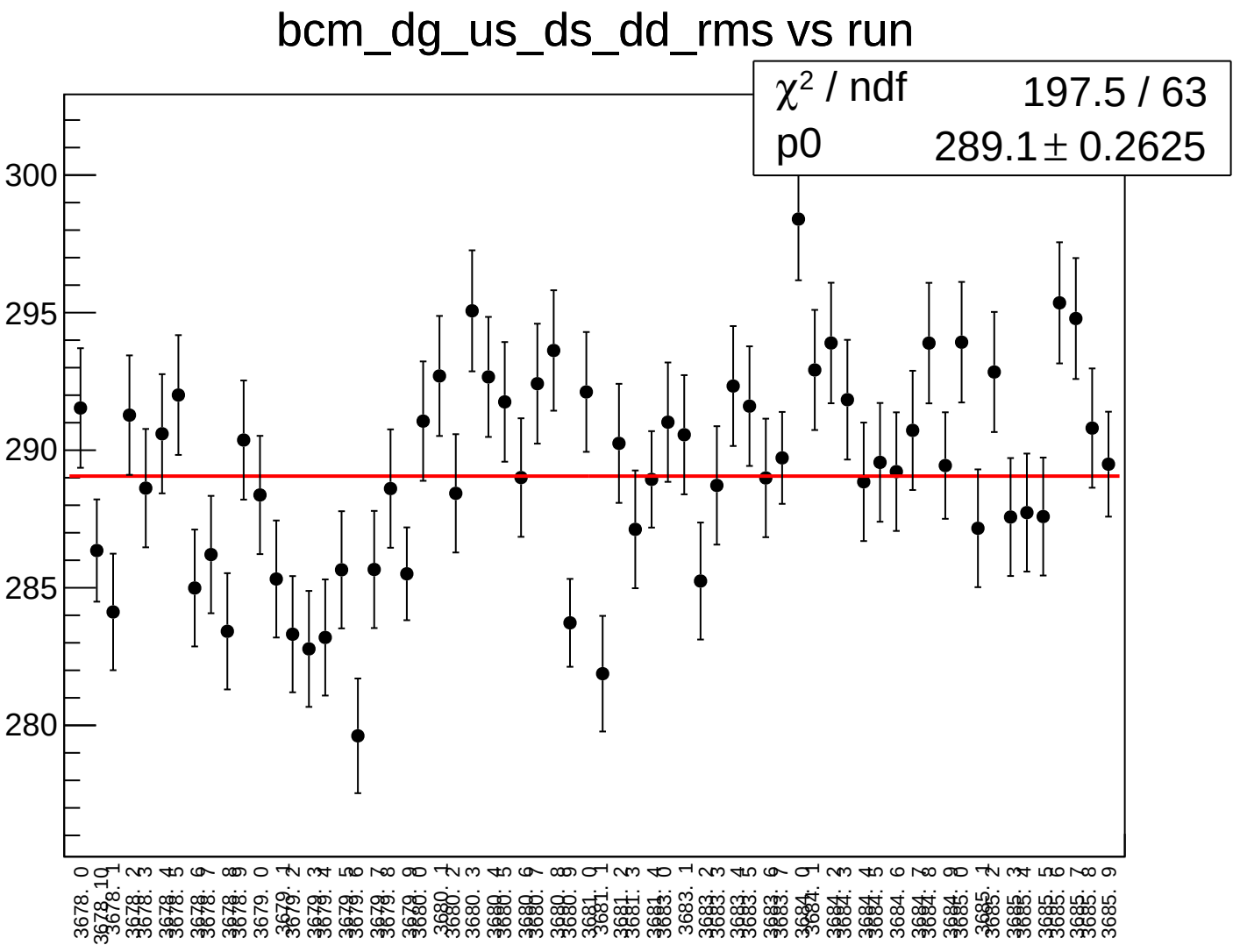

bcm_dg_us_ds_avg_mean vs run
$\chi^2$ / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

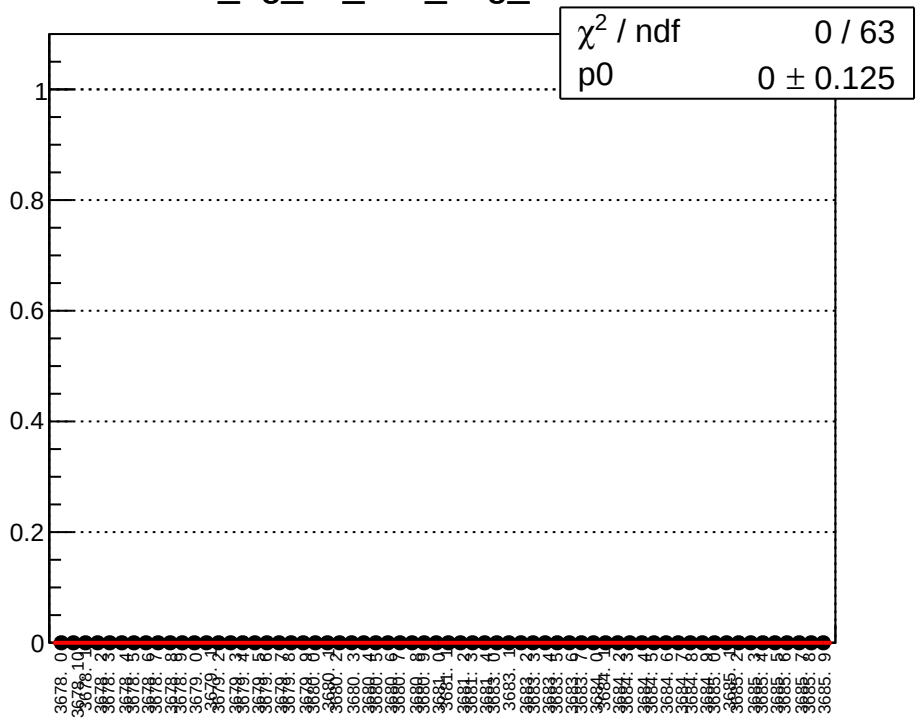

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

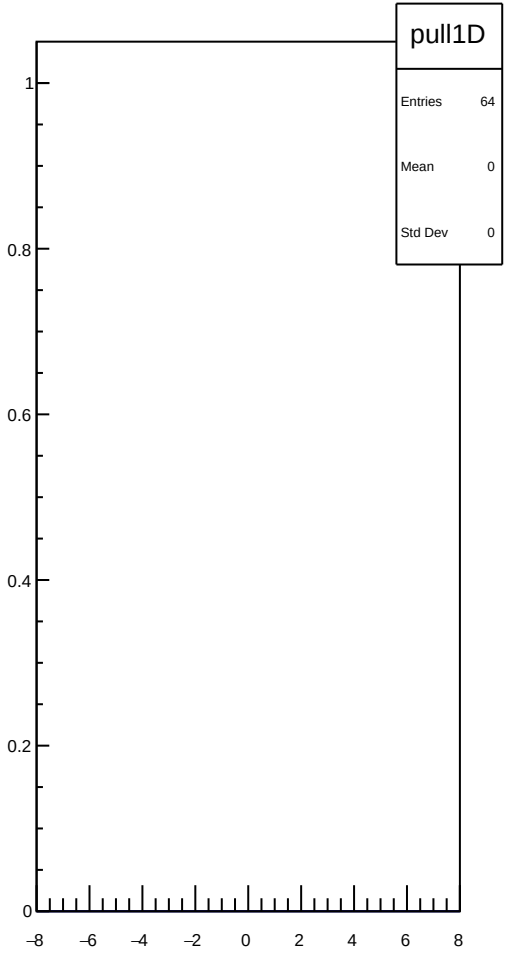

bcm_dg_us_ds_avg_rms vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

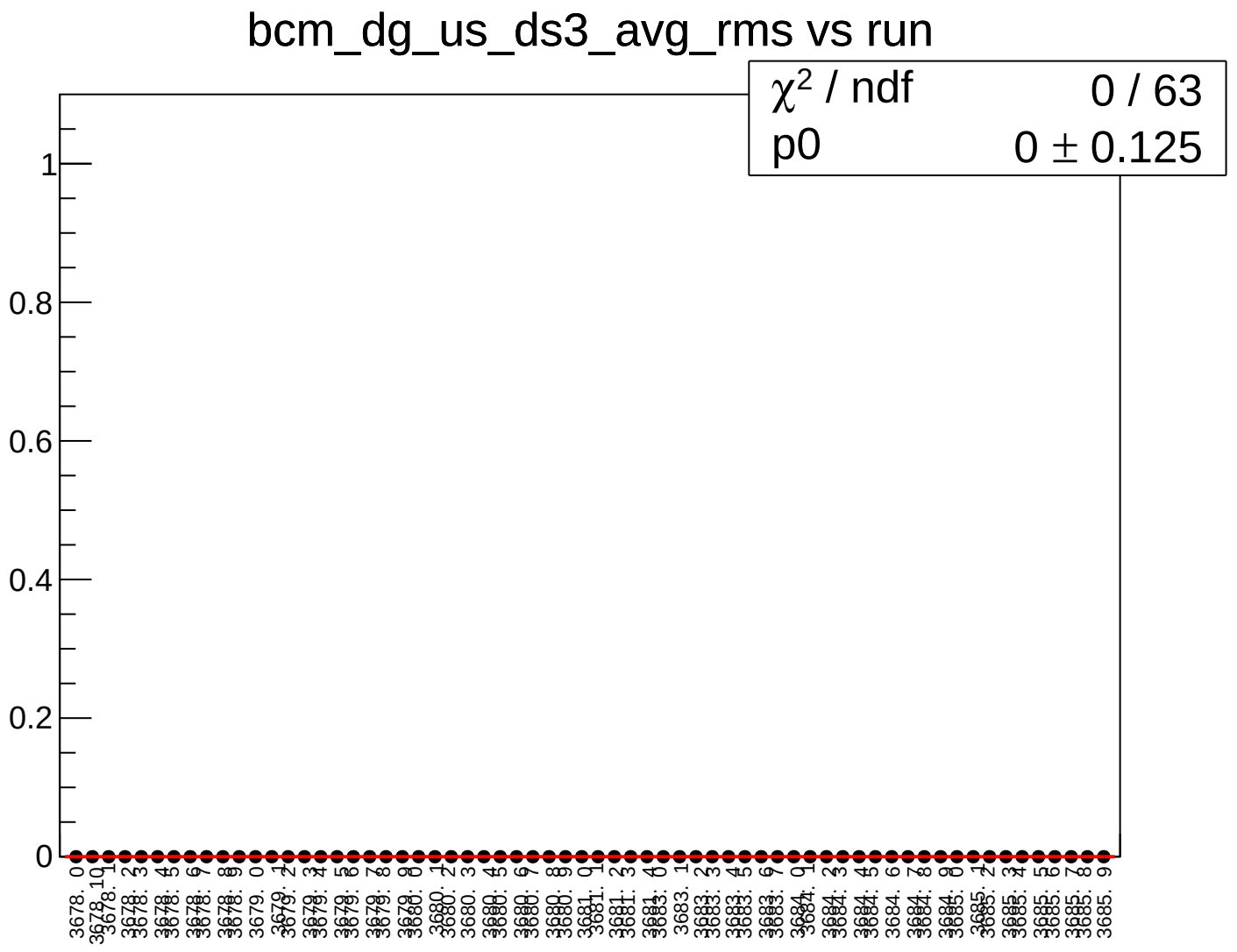

bcm_dg_us_ds_dd_mean vs run
χ² / ndf 58.82 / 63
p0 147.6 ± 371.3
10000
5000
0
−5000
−10000
pull
Entries 64
Mean 485.2
Std Dev 435.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

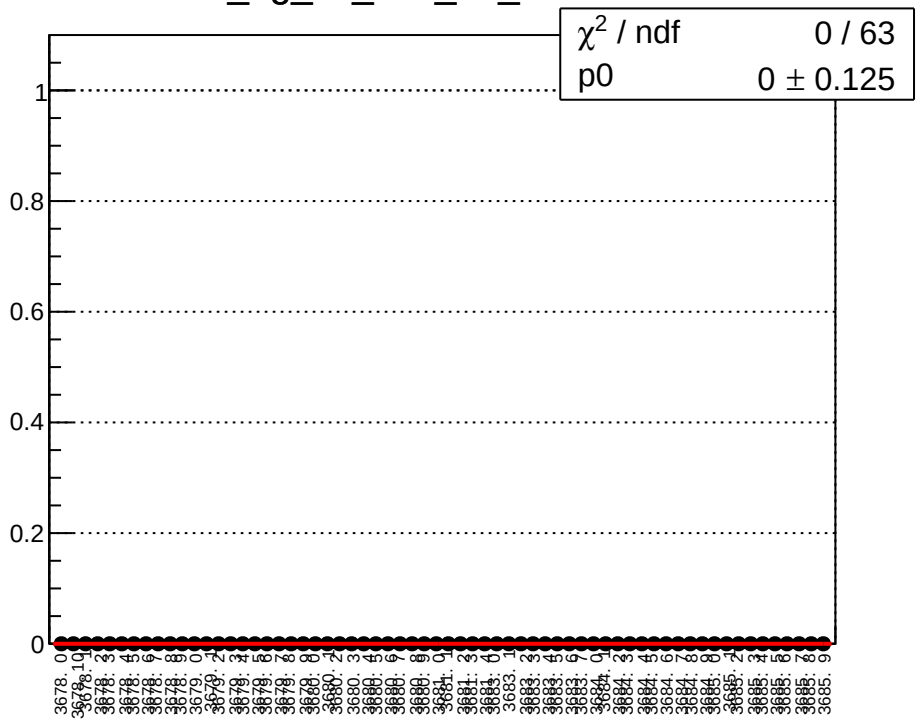

pull1D
Entries 64
Mean 0.003902
Std Dev 0.9586
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

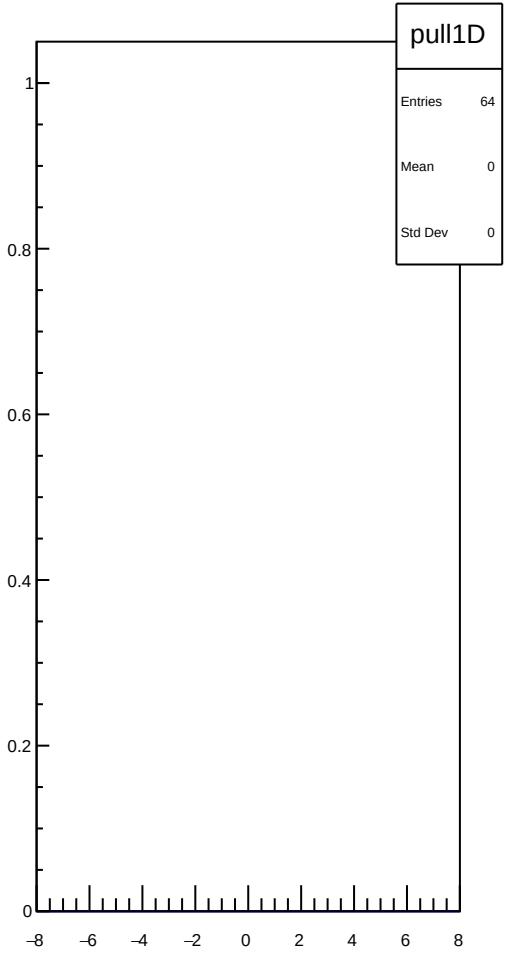

bcm_dg_us_ds_dd_rms vs run
χ² / ndf 197.5 / 63
p0 289.1 ± 0.2625
300
295
290
285
280

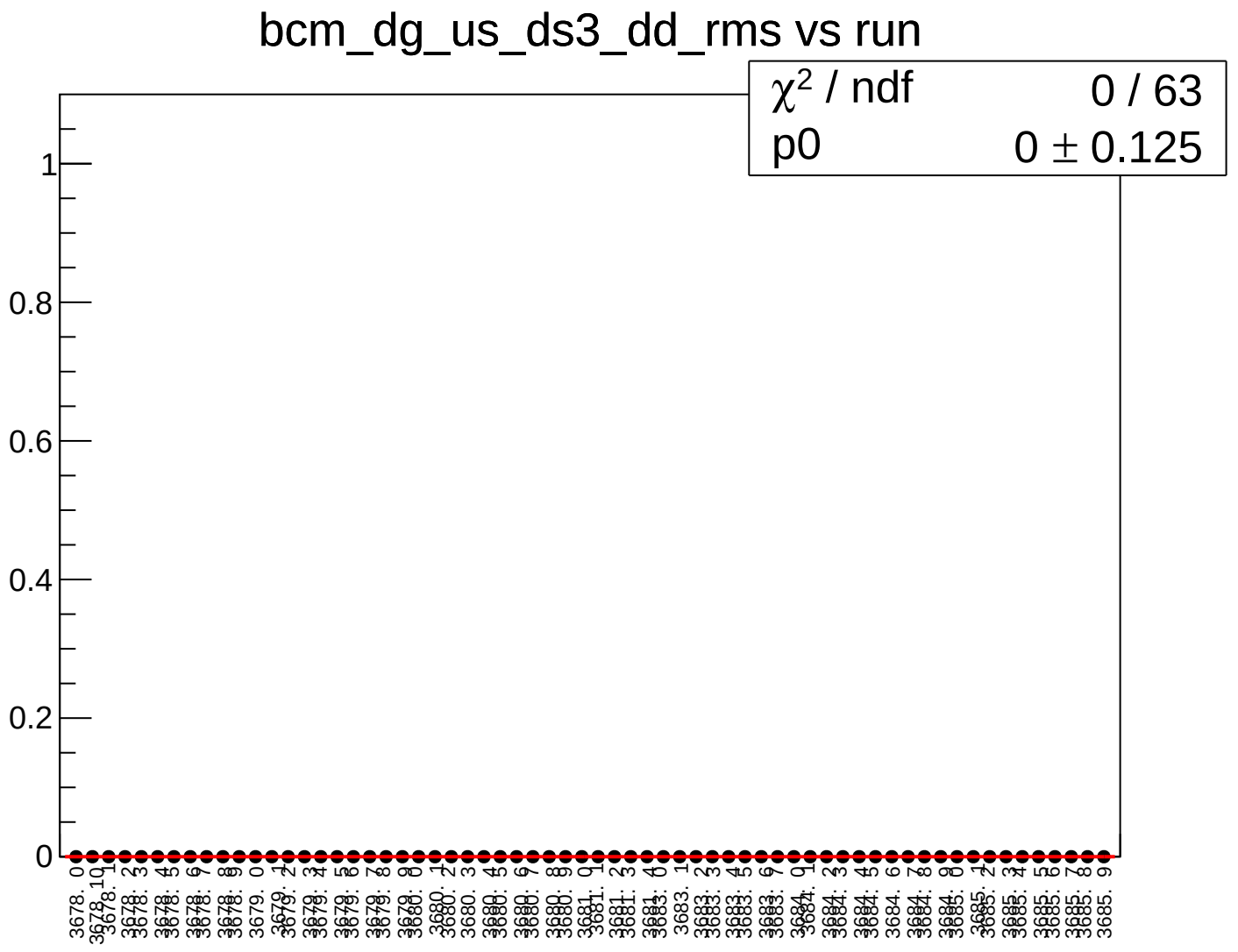

bcm_dg_us_ds3_avg_mean vs run
$\chi^2$ / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

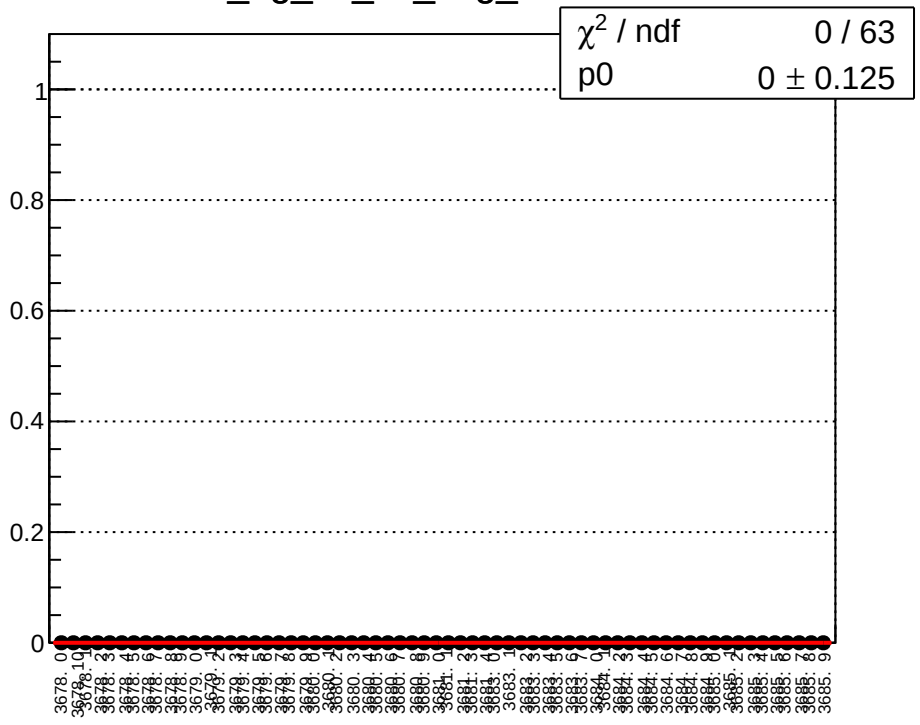

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

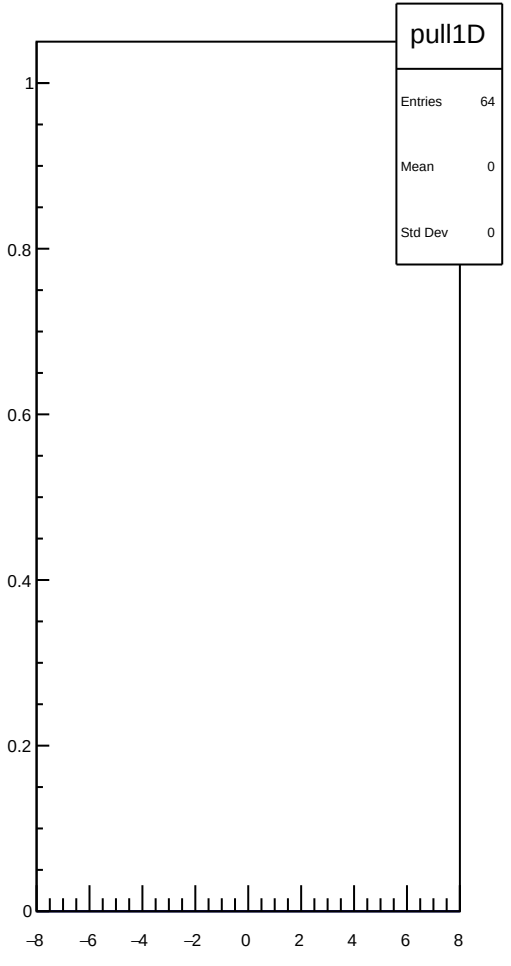

bcm_dg_us_ds3_avg_rms vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

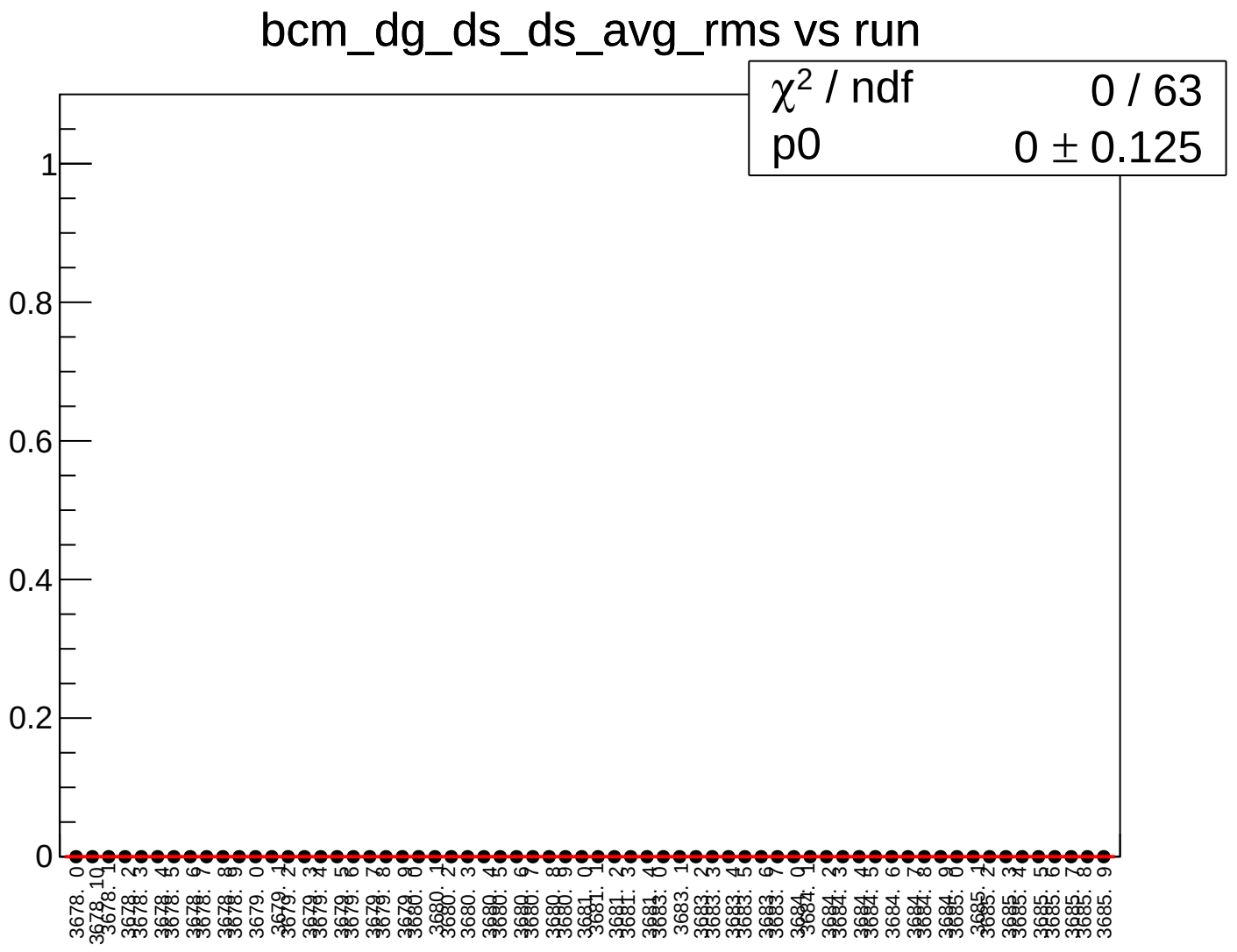

bcm_dg_us_ds3_dd_mean vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

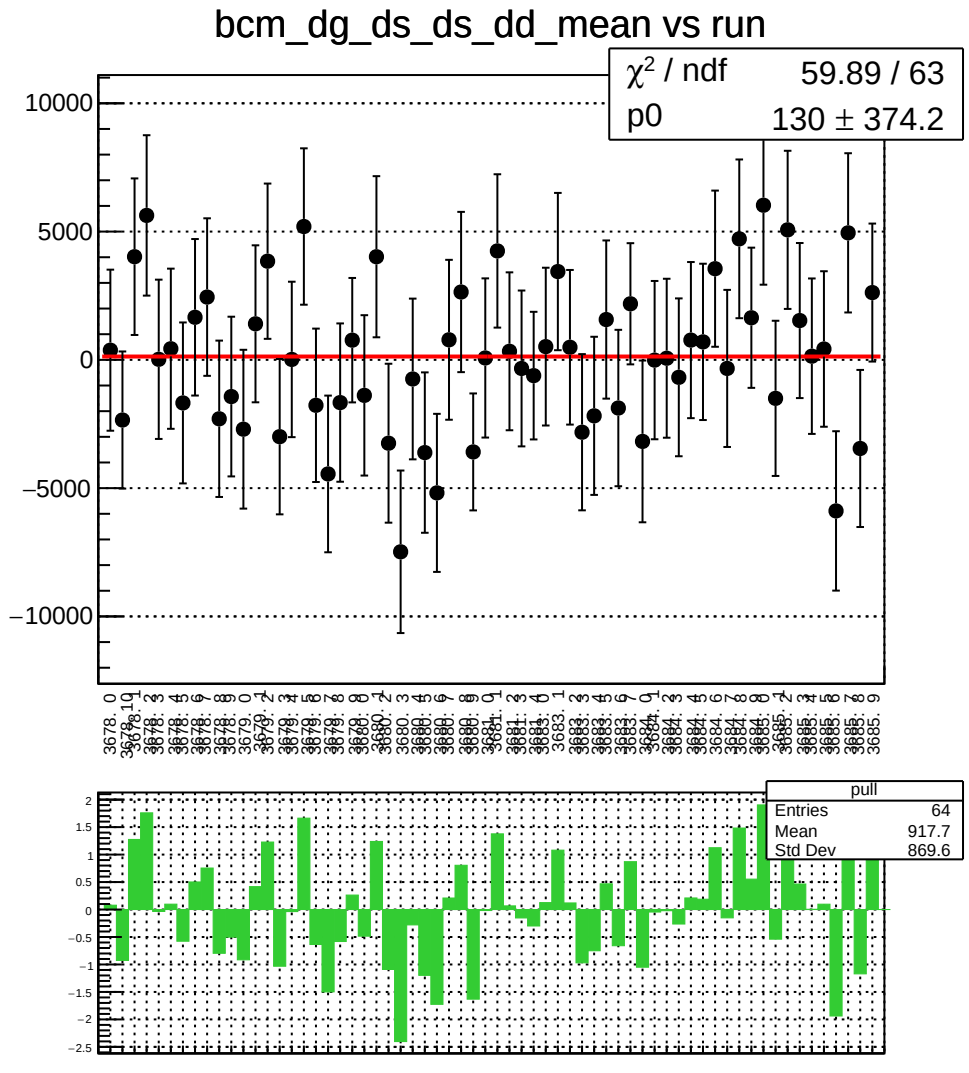

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

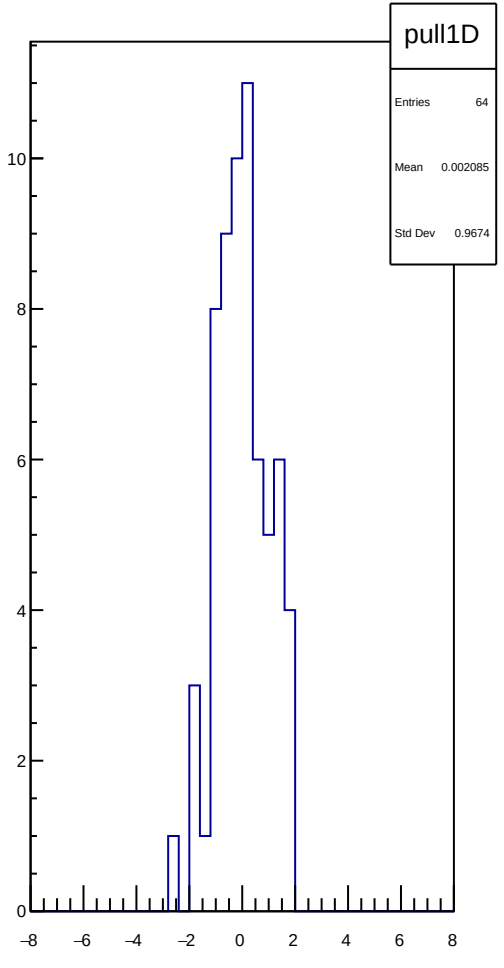

bcm_dg_us_ds3_dd_rms vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

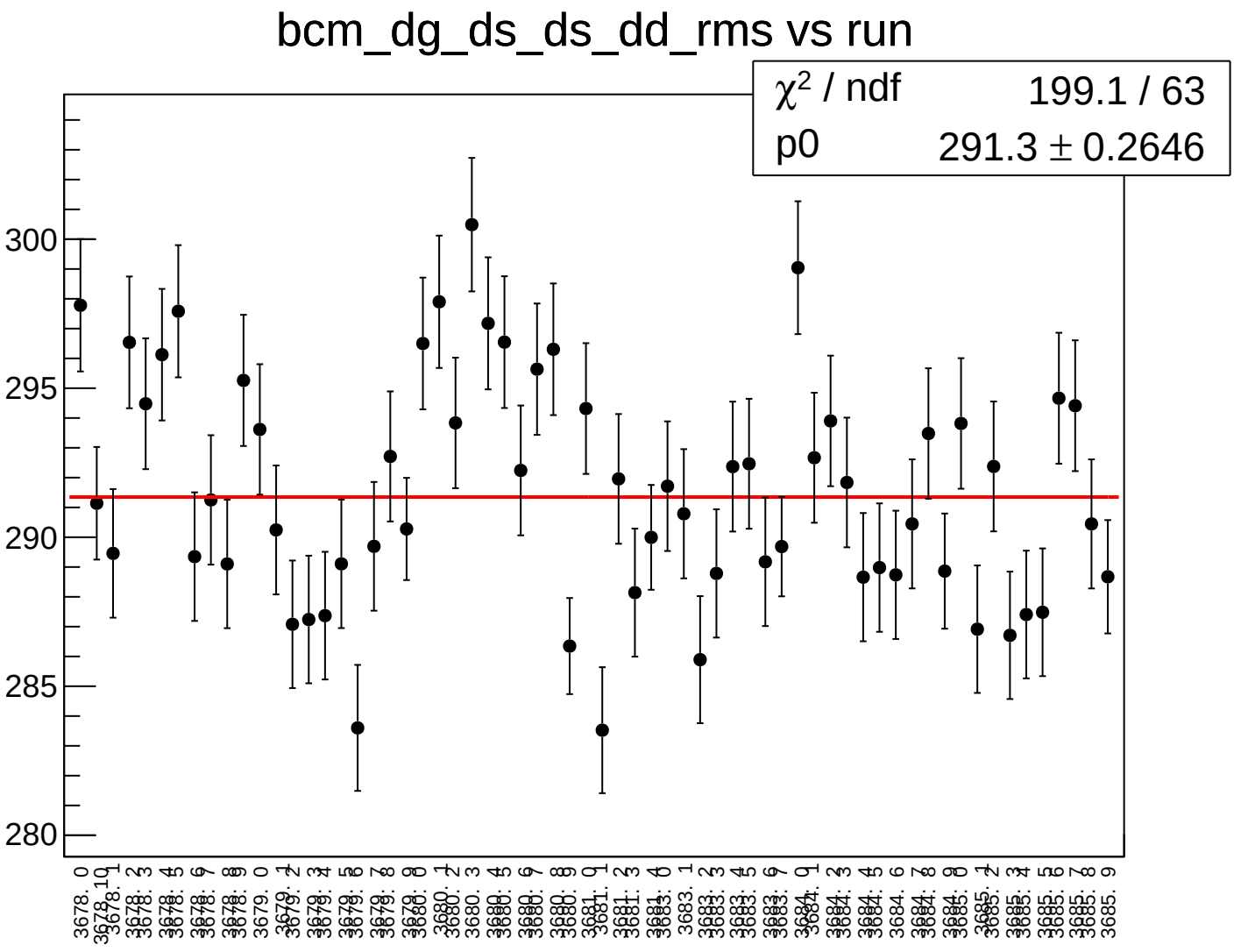

bcm_dg_ds_ds_avg_mean vs run
$\chi^2$ / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

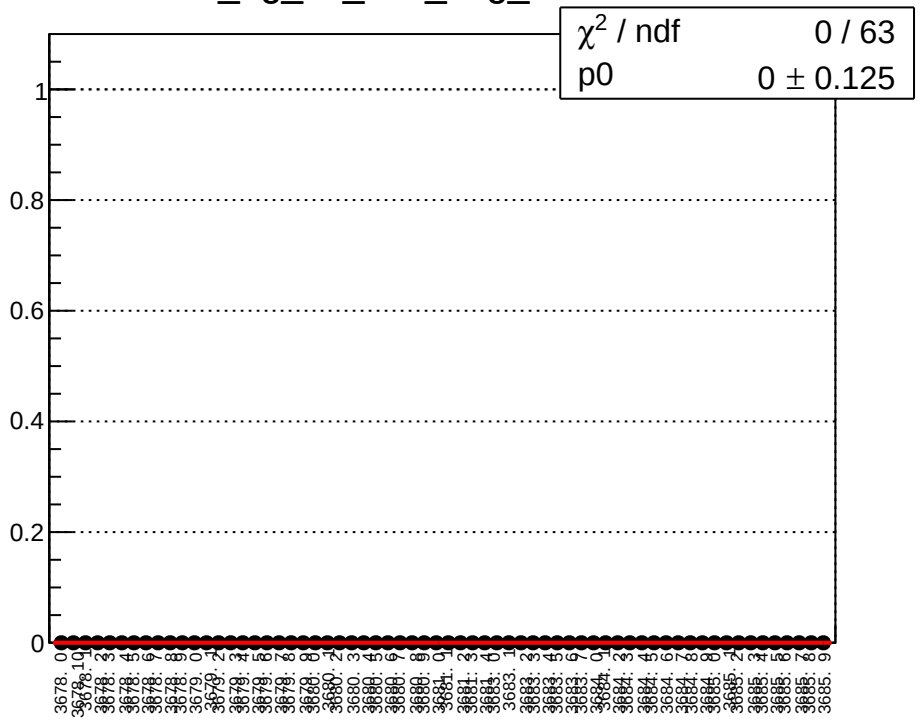

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

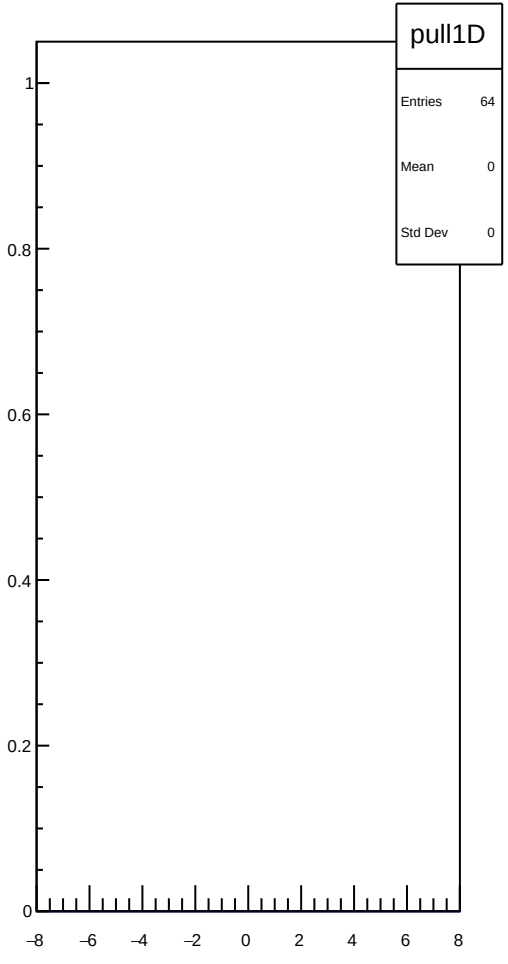

bcm_dg_ds_ds_avg_rms vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

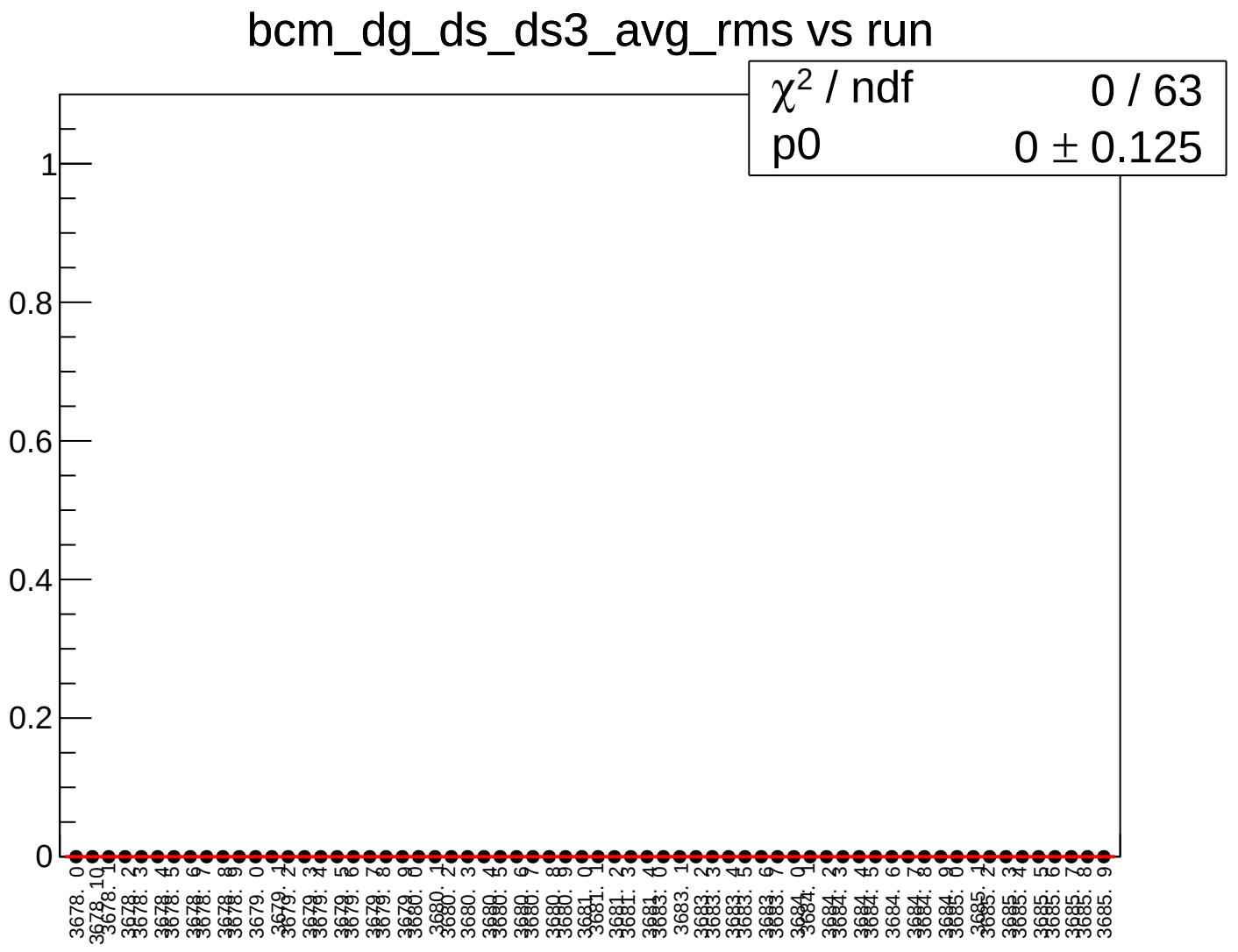

bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 59.89 / 63
p0 130 ± 374.2
10000
5000
0
−5000
−10000
pull
Entries 64
Mean 917.7
Std Dev 869.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

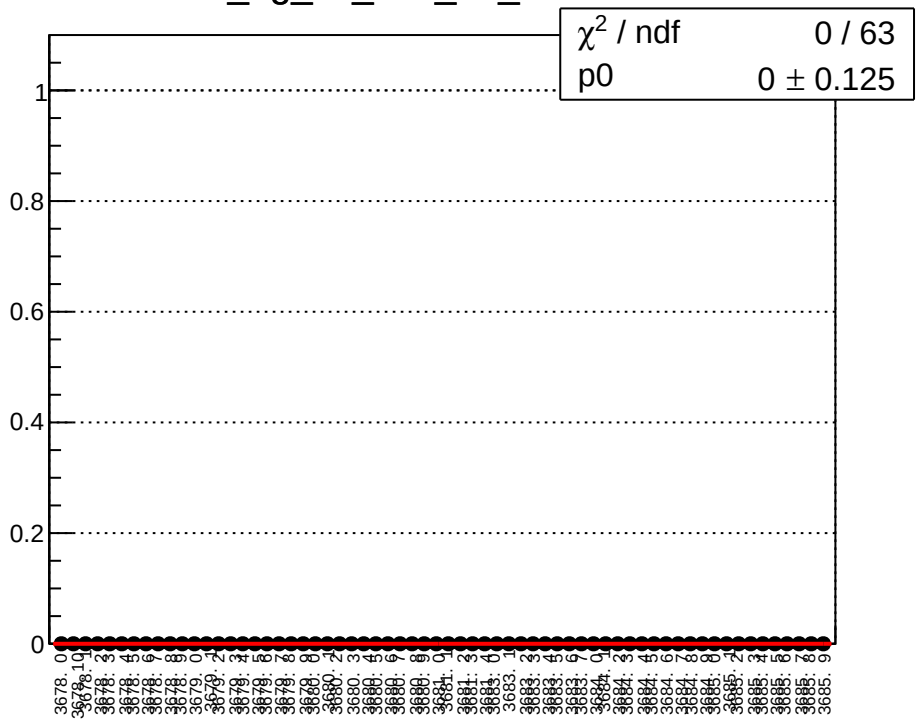

pull1D
Entries 64
Mean 0.002085
Std Dev 0.9674
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

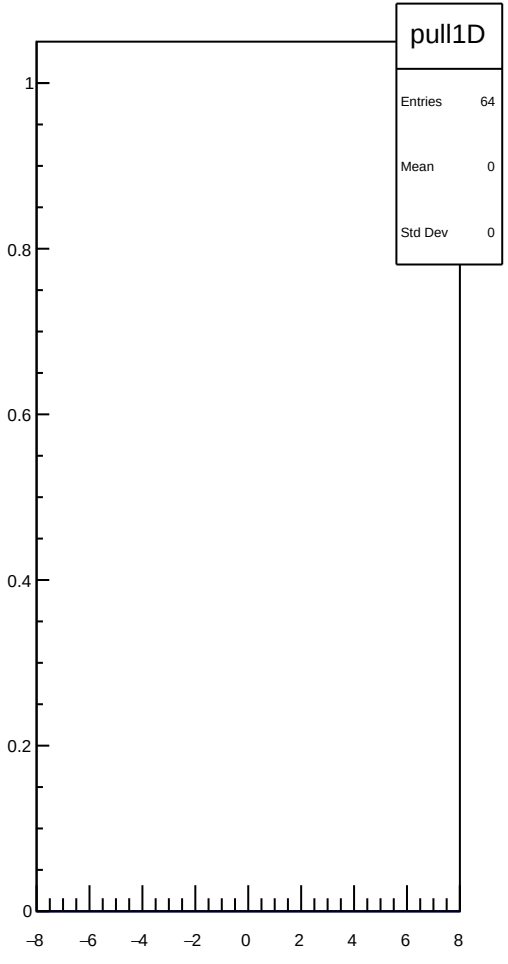

bcm_dg_ds_ds_dd_rms vs run
χ² / ndf 199.1 / 63
p0 291.3 ± 0.2646
300
295
290
285
280

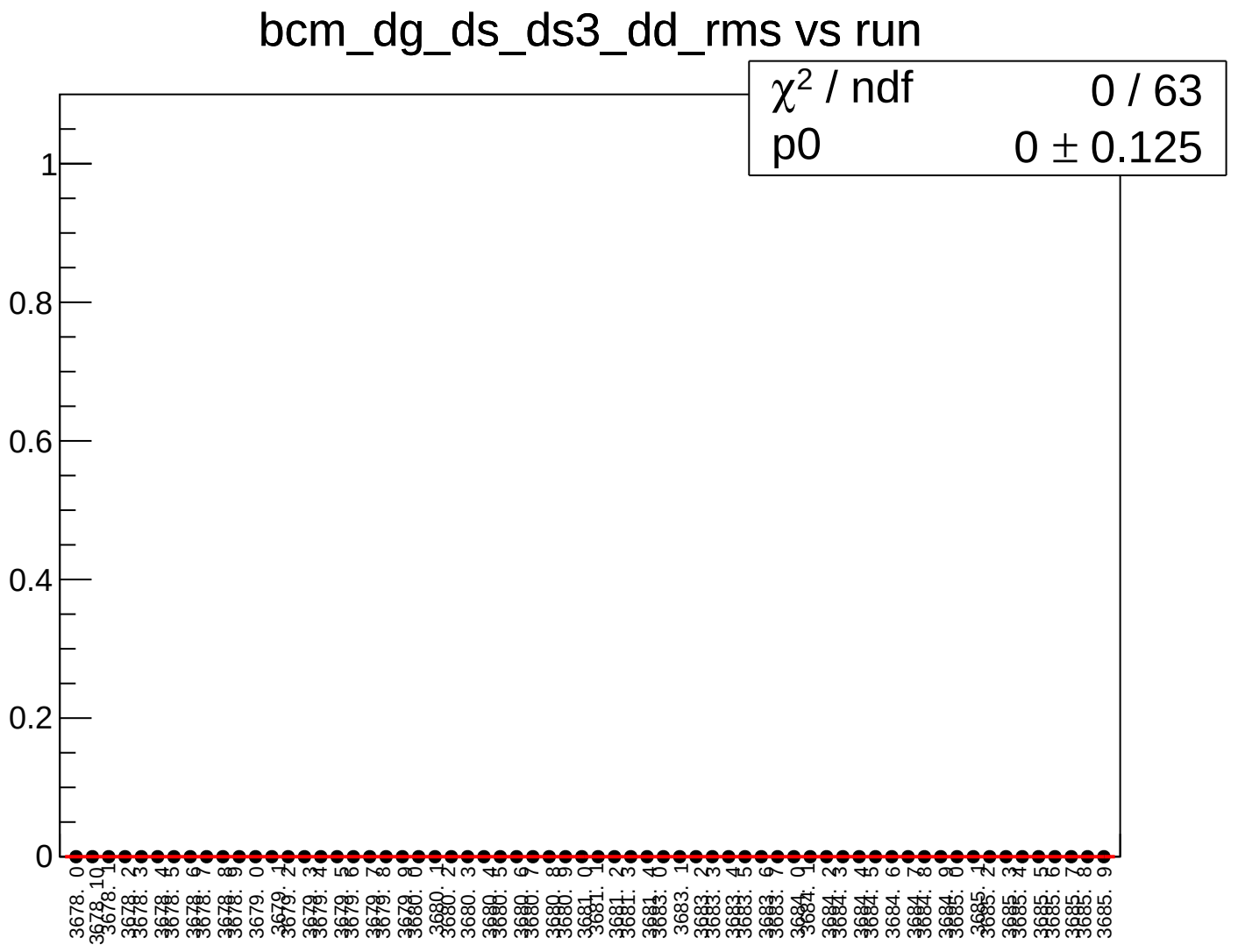

bcm_dg_ds_ds3_avg_mean vs run
$\chi^2$ / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

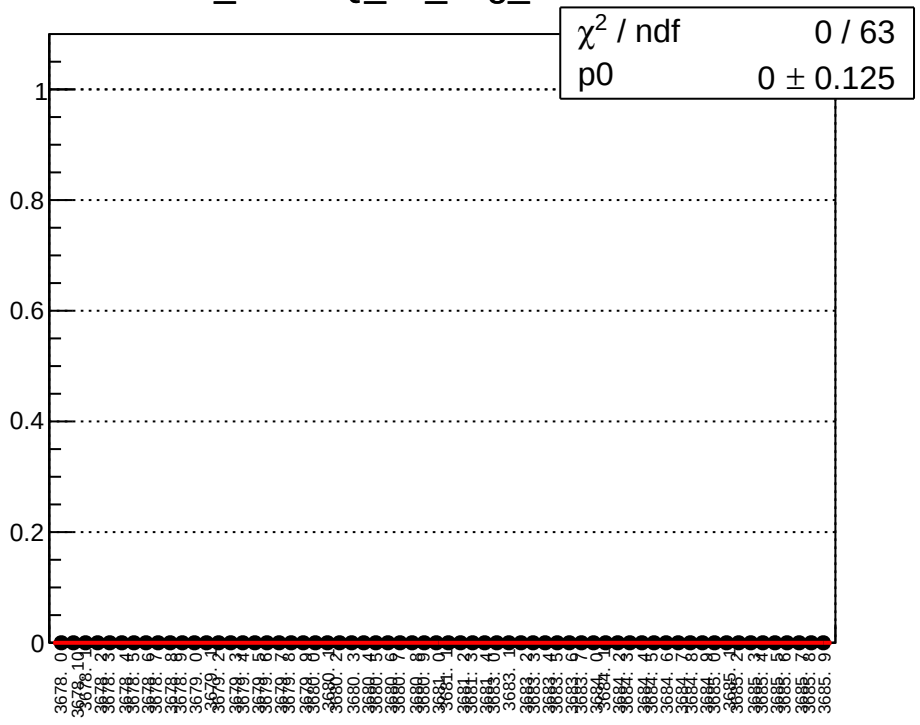

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

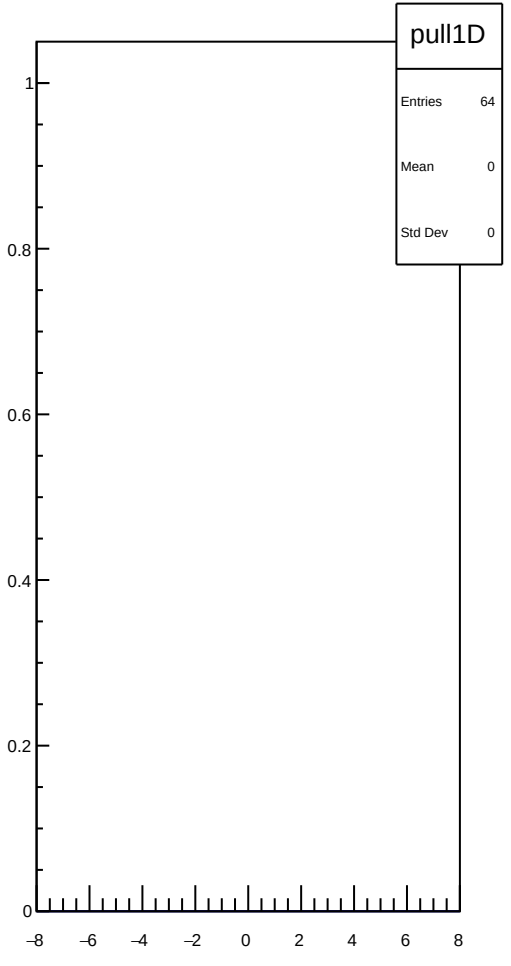

bcm_dg_ds_ds3_avg_rms vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

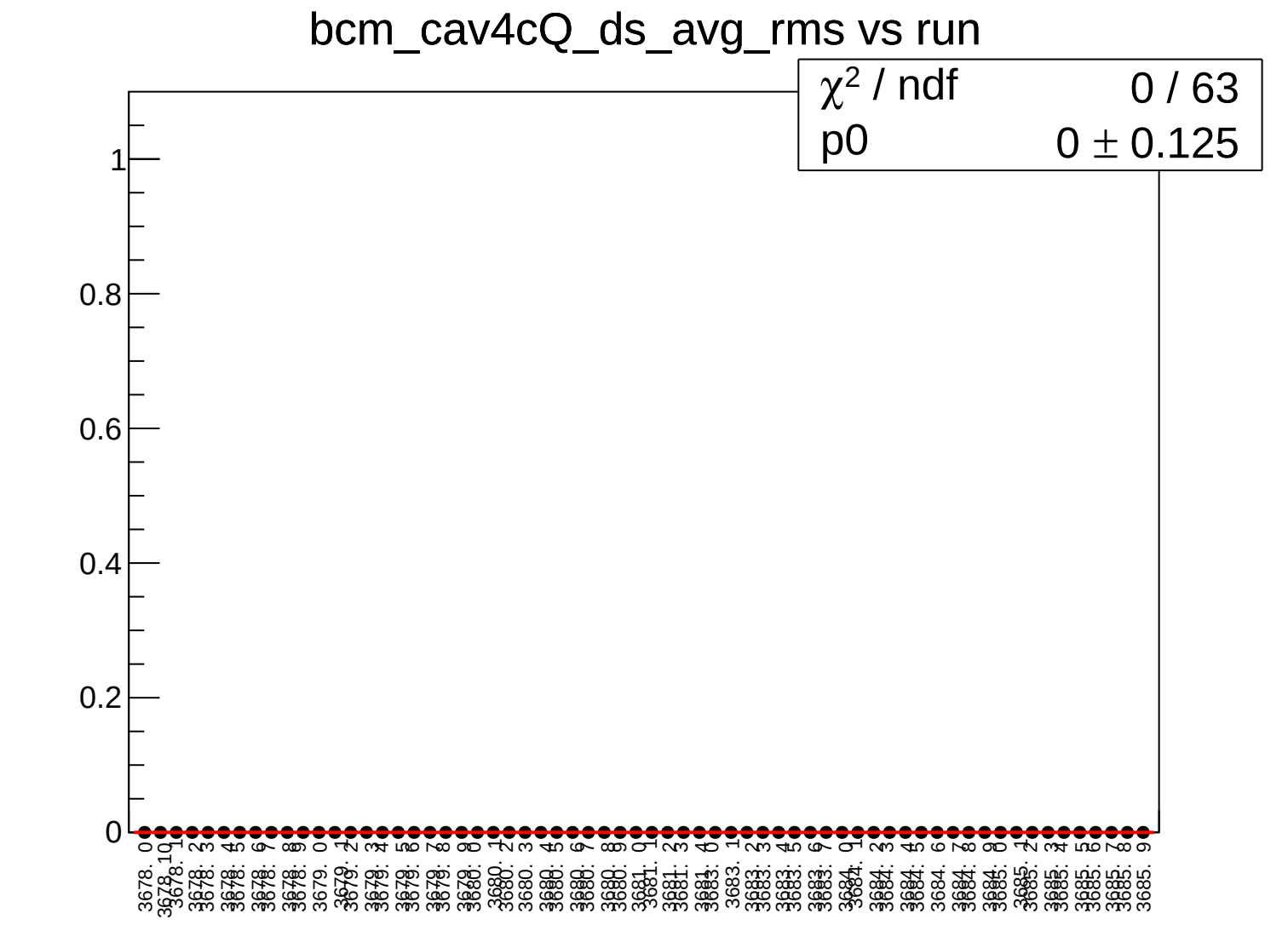

bcm_dg_ds_ds3_dd_mean vs run
$\chi^2$ / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

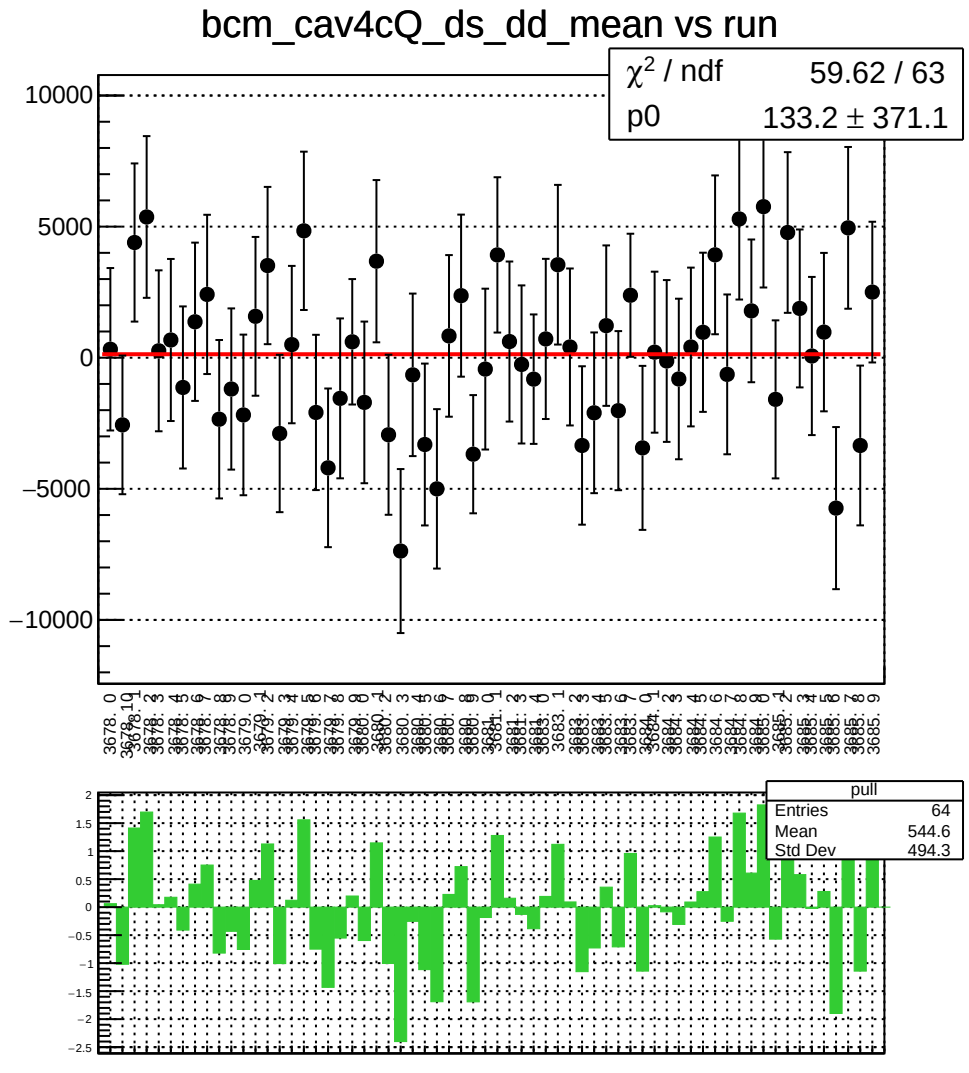

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

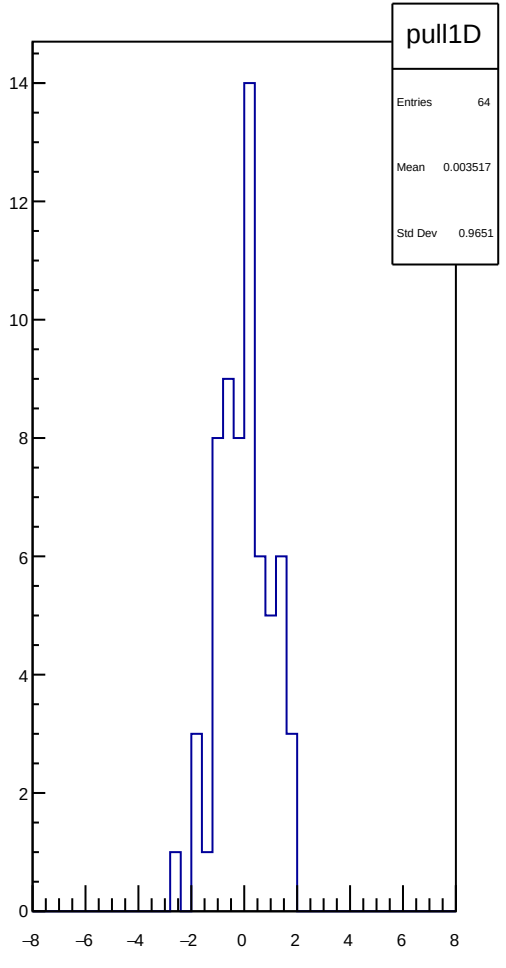

bcm_dg_ds_ds3_dd_rms vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

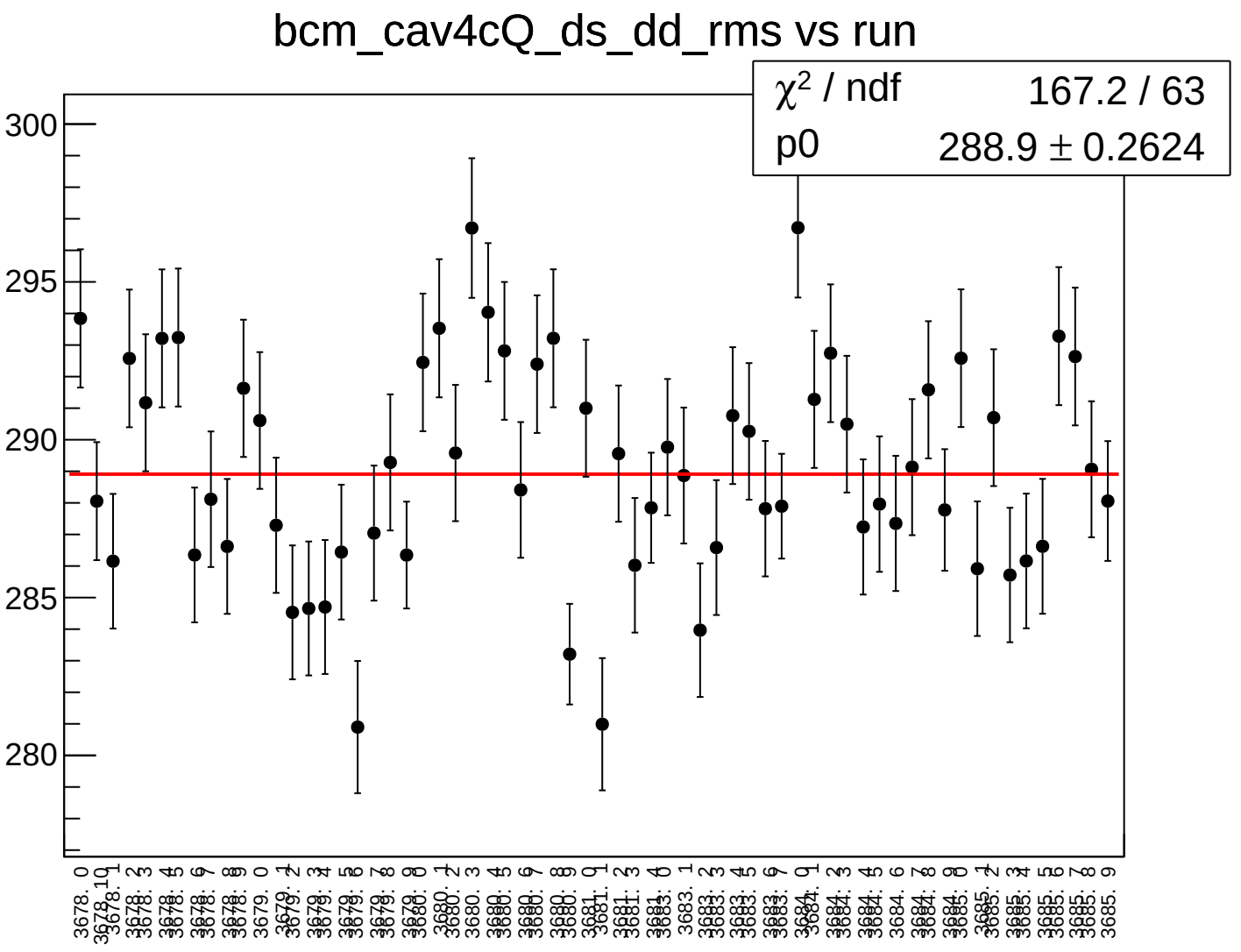

bcm_cav4cQ_ds_avg_mean vs run
$\chi^2$ / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

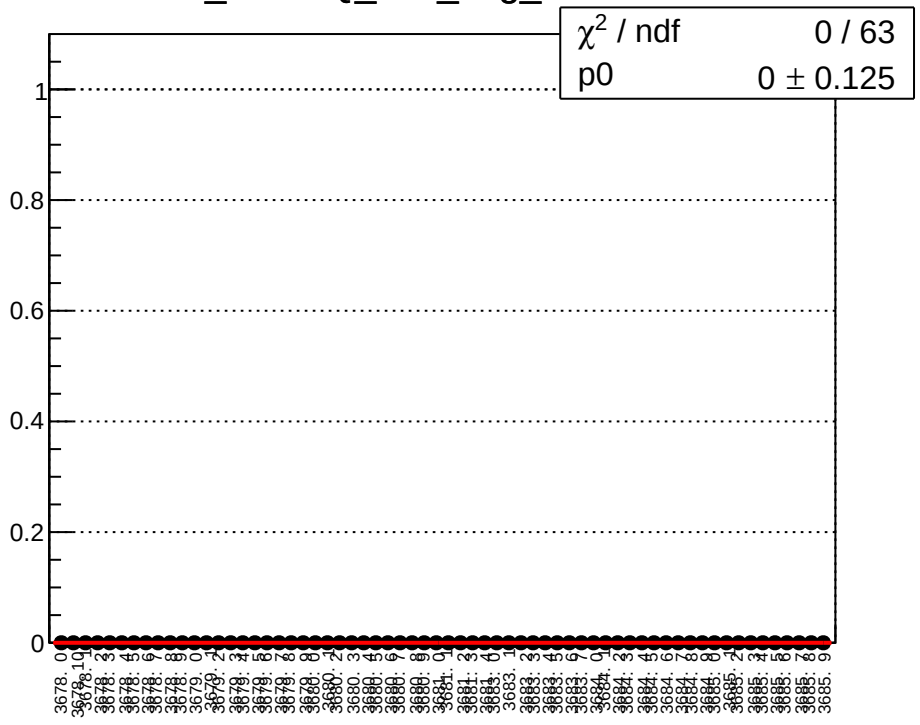

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

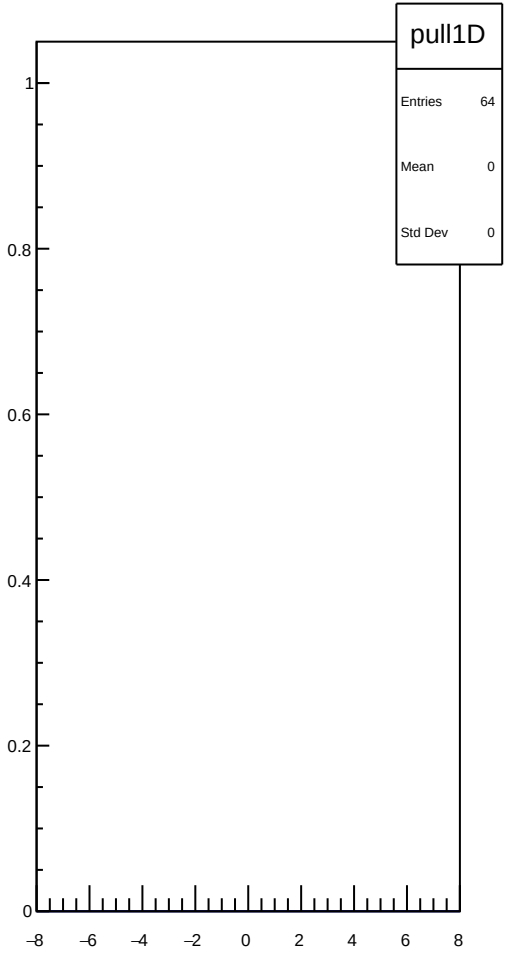

bcm_cav4cQ_ds_avg_rms vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

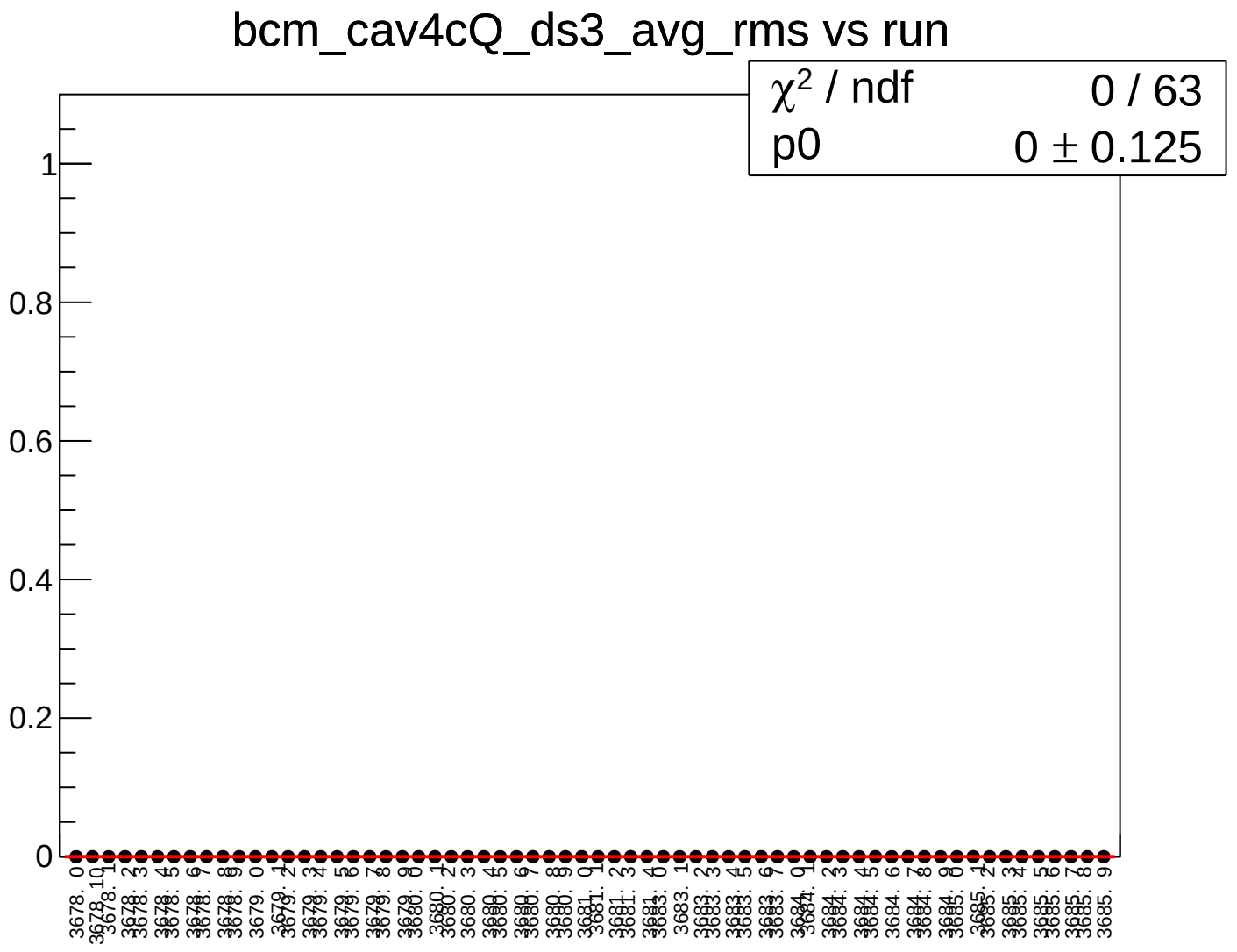

bcm_cav4cQ_ds_dd_mean vs run
χ² / ndf 59.62 / 63
p0 133.2 ± 371.1
10000
5000
0
−5000
−10000
pull
Entries 64
Mean 544.6
Std Dev 494.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

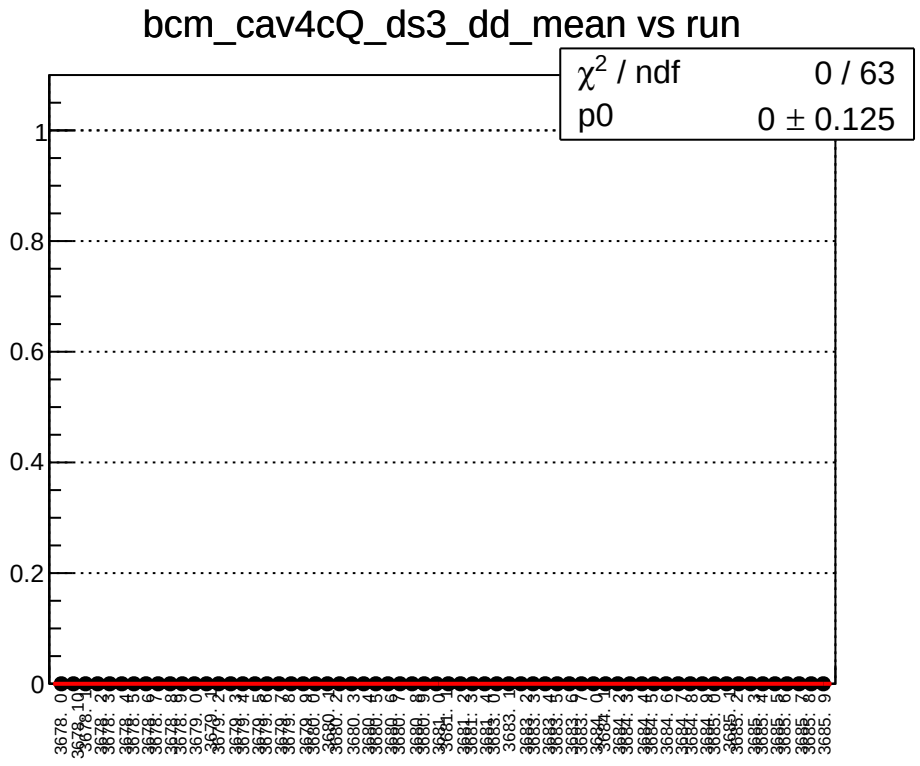

pull1D
Entries 64
Mean 0.003517
Std Dev 0.9651
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

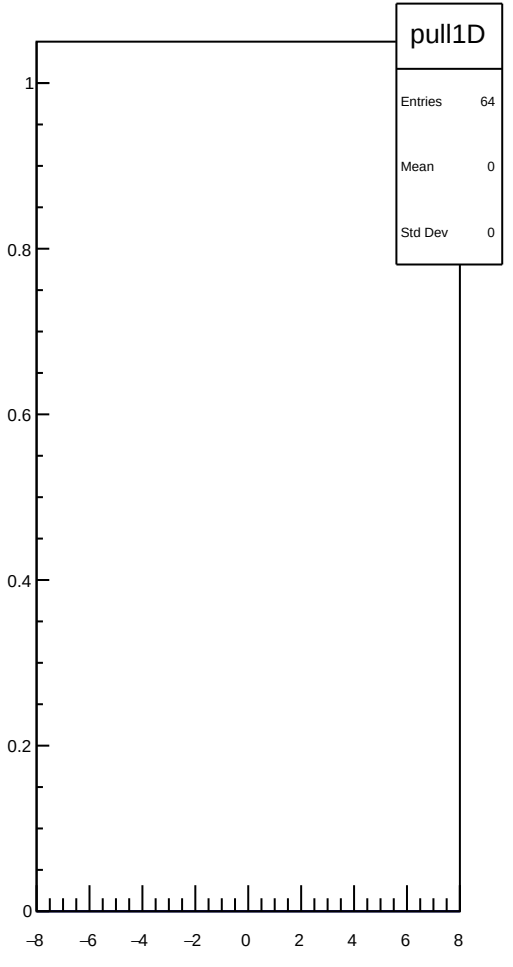

bcm_cav4cQ_ds_dd_rms vs run
χ² / ndf 167.2 / 63
p0 288.9 ± 0.2624
300
295
290
285
280

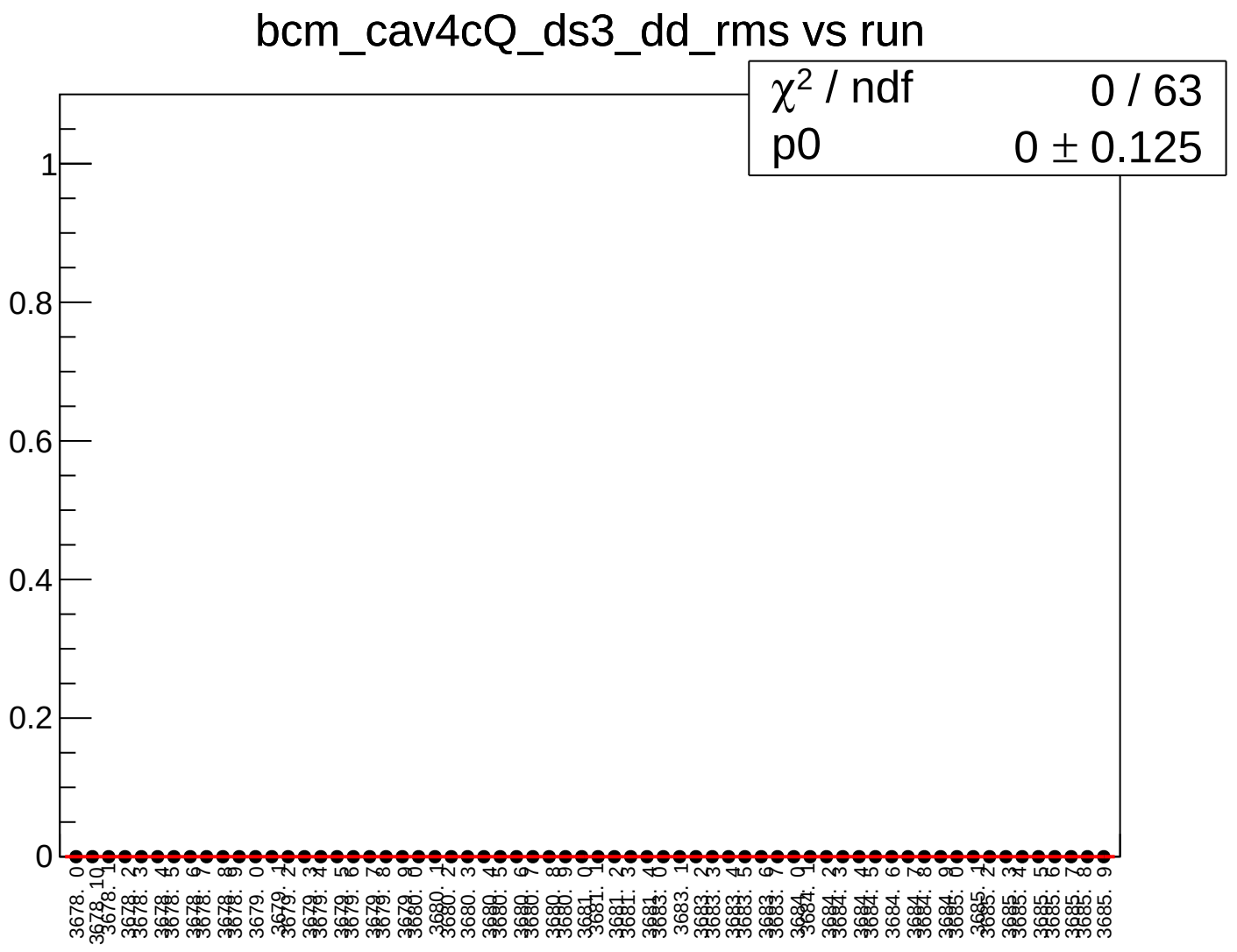

bcm_cav4cQ_ds3_avg_mean vs run
$\chi^2$ / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

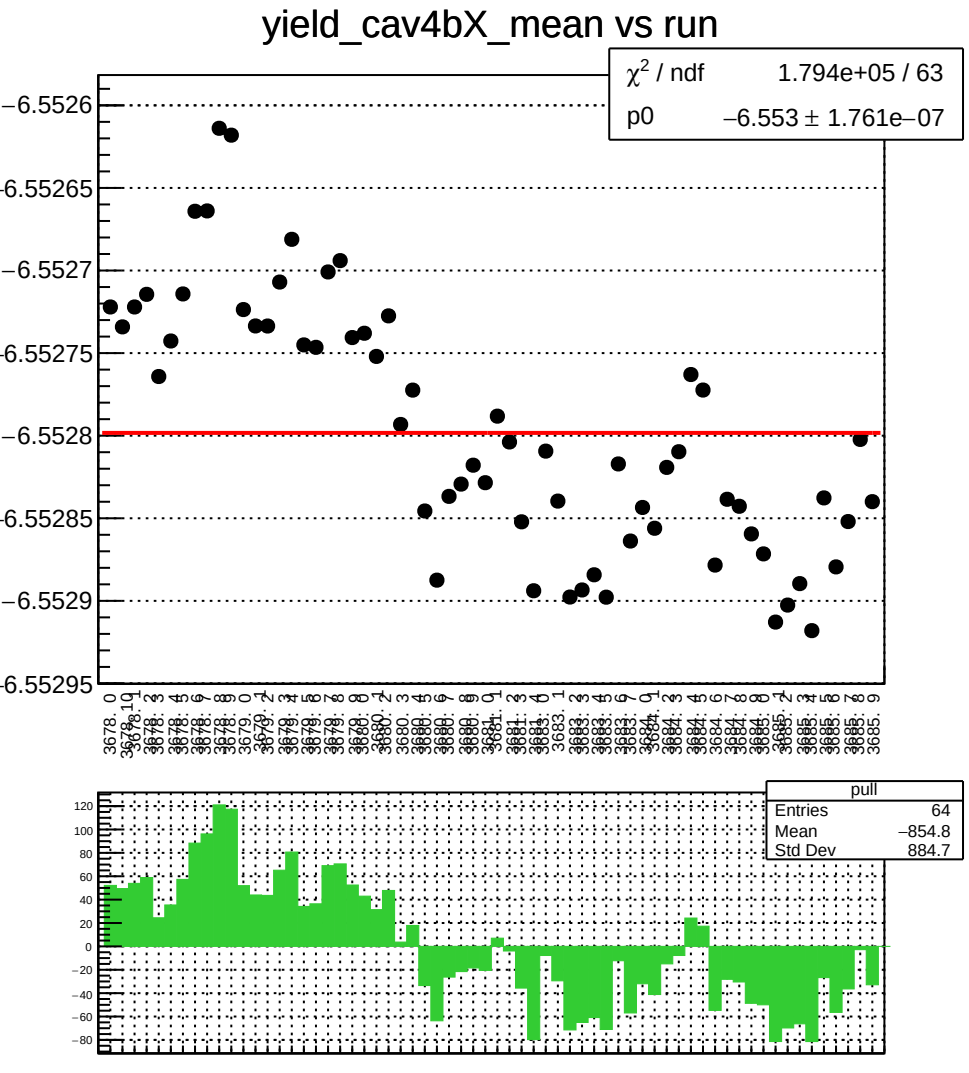

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

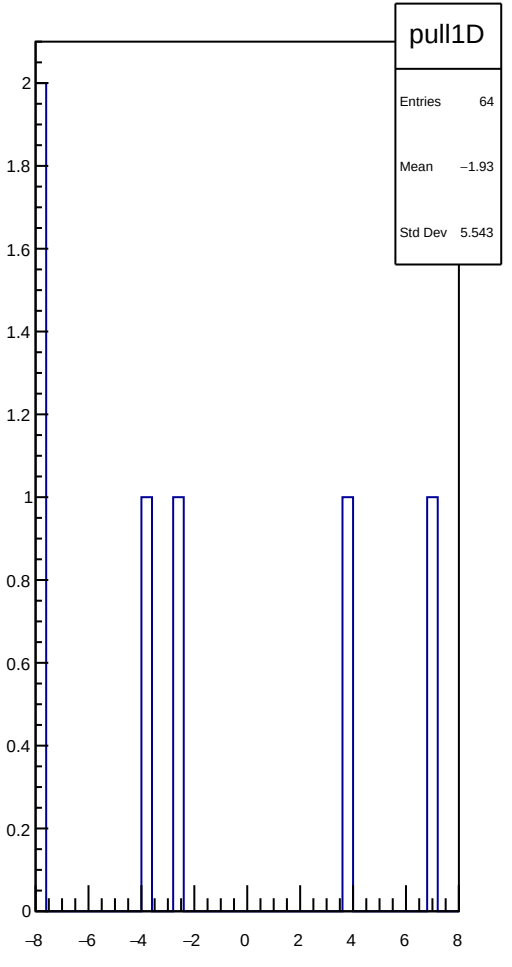

bcm_cav4cQ_ds3_avg_rms vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

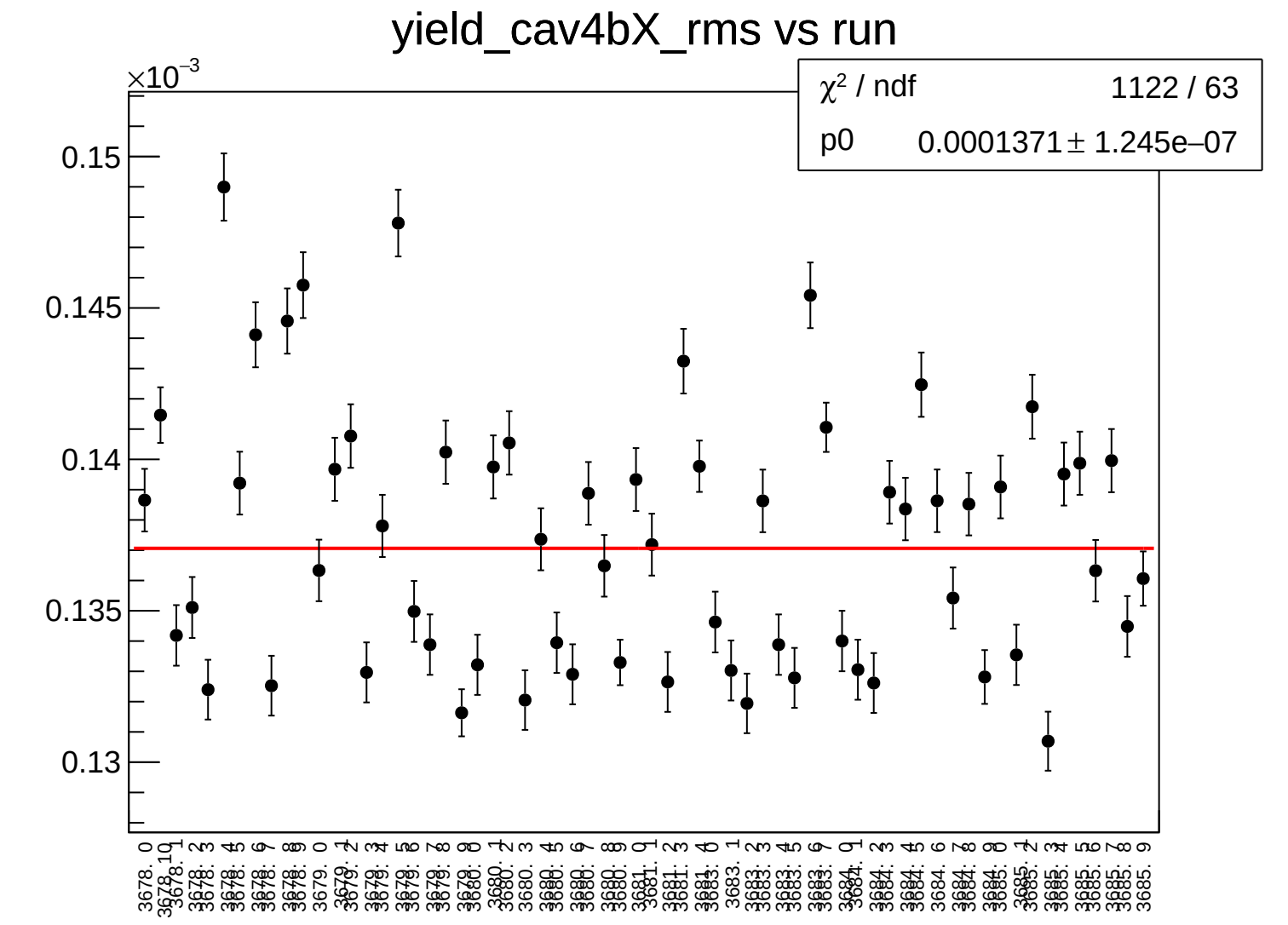

bcm_cav4cQ_ds3_dd_mean vs run
$\chi^2$ / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

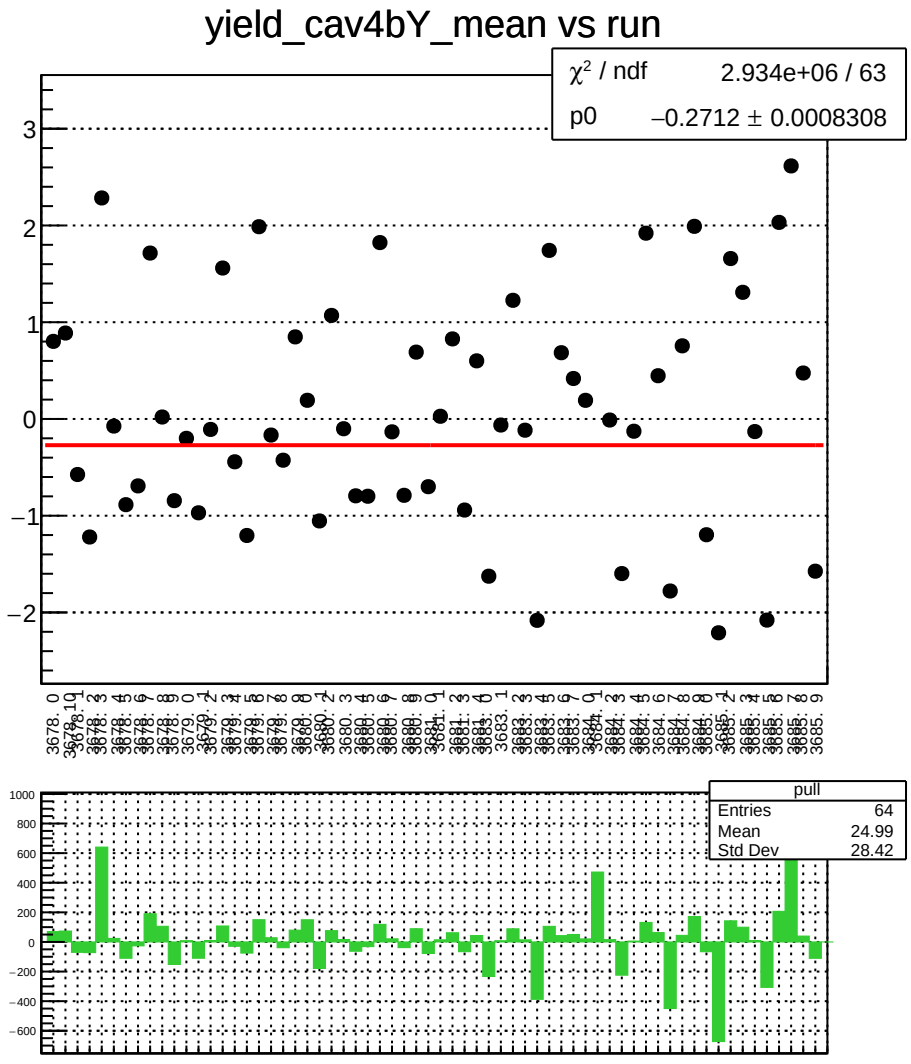

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

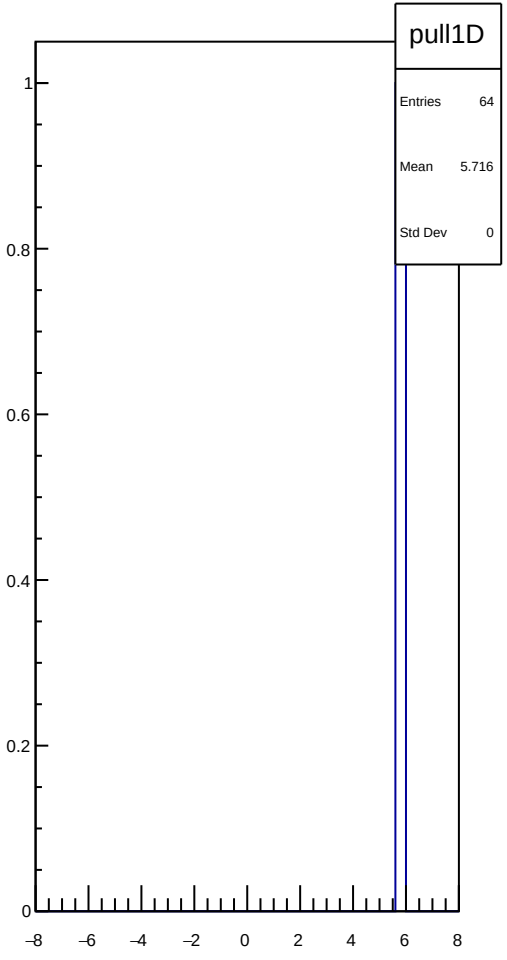

bcm_cav4cQ_ds3_dd_rms vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

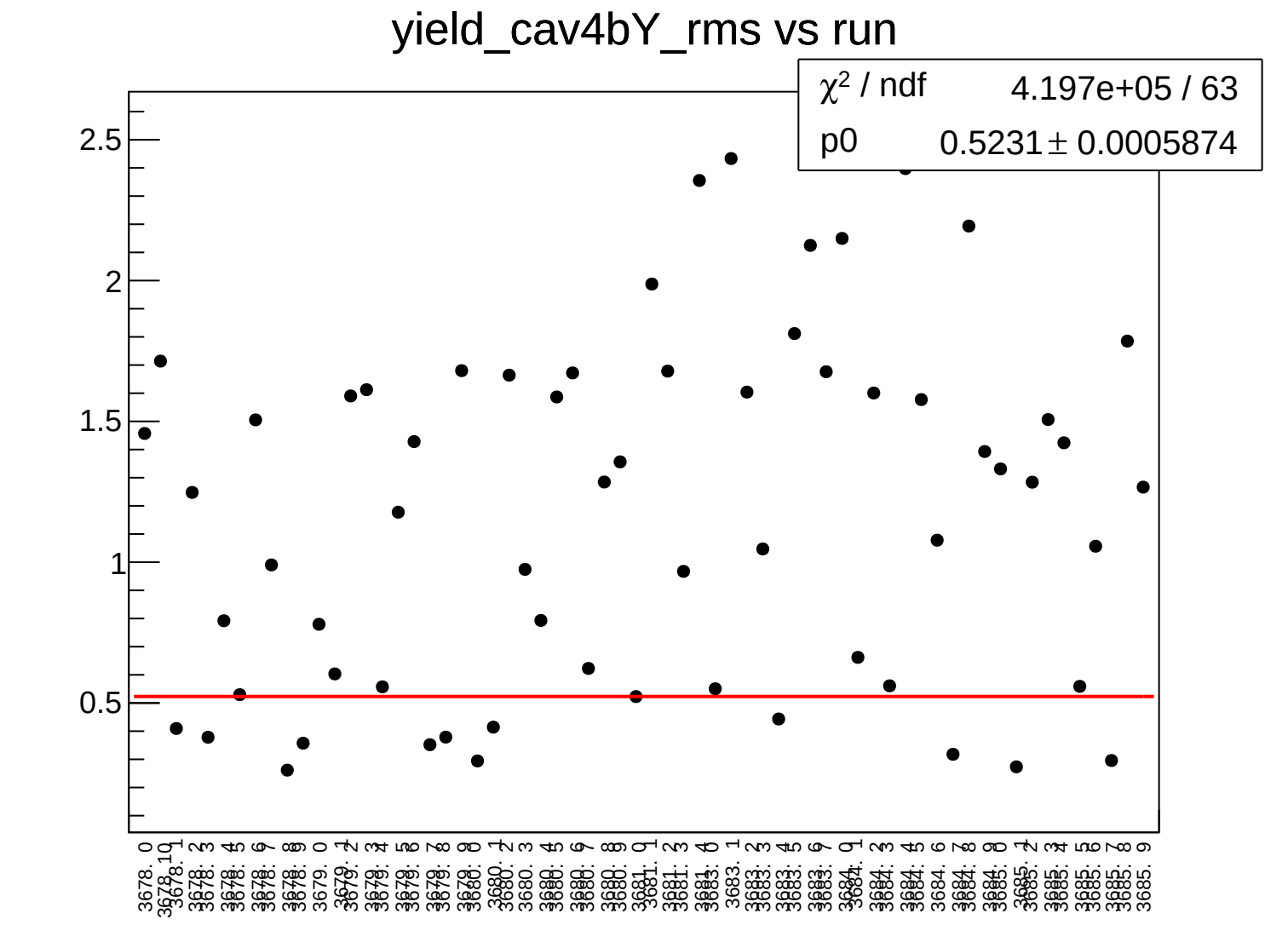

yield_cav4bX_mean vs run
χ² / ndf 1.794e+05 / 63
p0 −6.553 ± 1.761e−07
−6.5526
−6.55265
−6.5527
−6.55275
−6.5528
−6.55285
−6.5529
−6.55295
pull
Entries 64
Mean −854.8
Std Dev 884.7
120
100
80
60
40
20
0
−20
−40
−60
−80

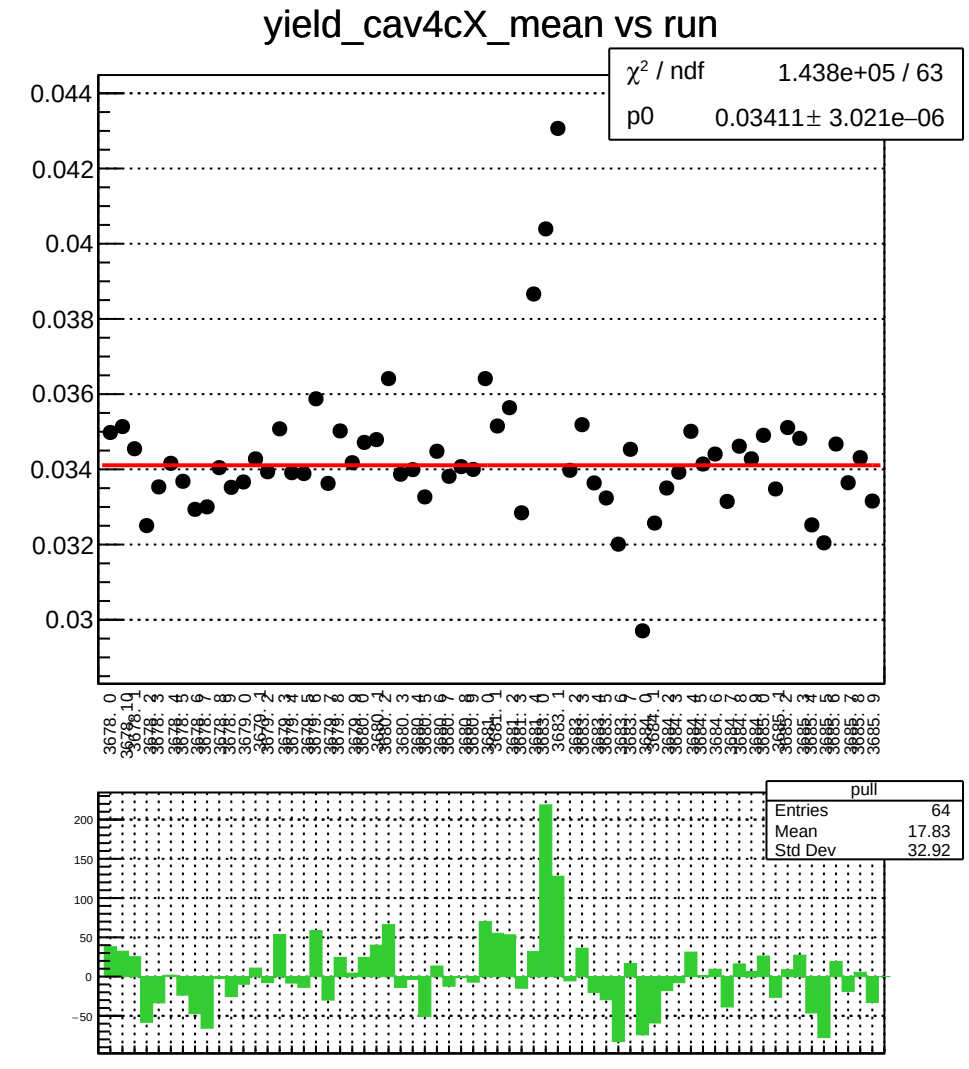

pull1D
Entries 64
Mean −1.93
Std Dev 5.543
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

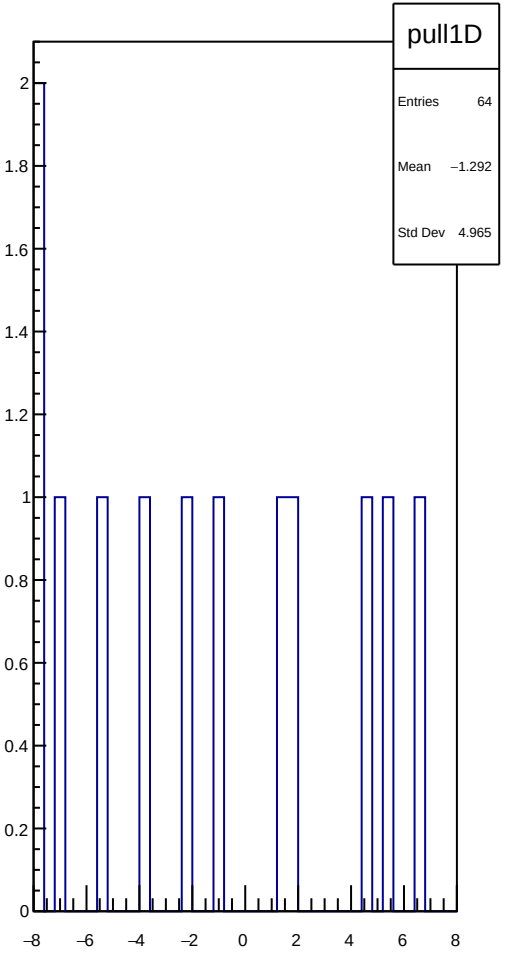

yield_cav4bX_rms vs run
×10⁻³
χ² / ndf 1122 / 63
p0 0.0001371 ± 1.245e−07
0.15
0.145
0.14
0.135
0.13

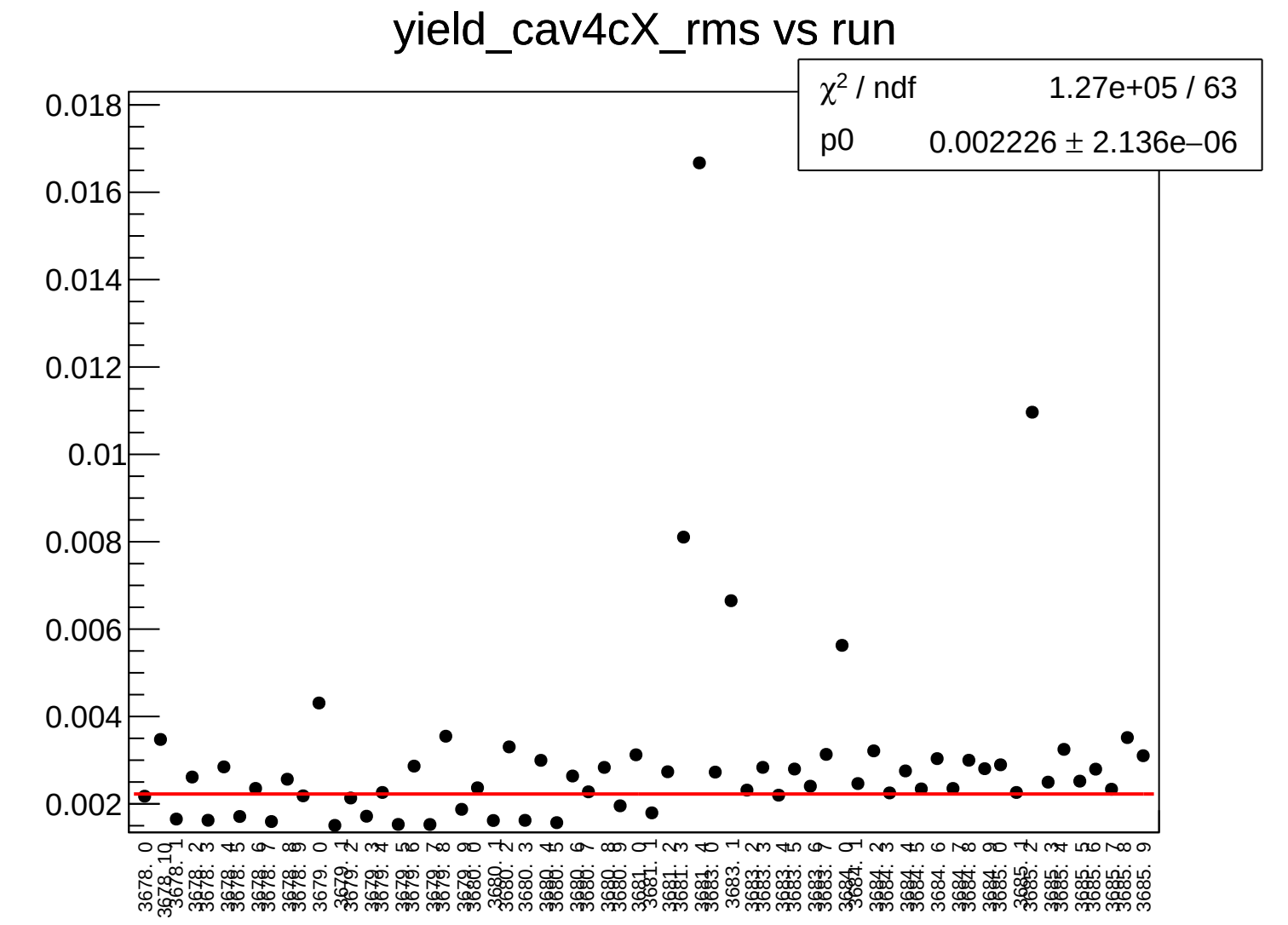

yield_cav4bY_mean vs run
χ² / ndf 2.934e+06 / 63
p0 −0.2712 ± 0.0008308
pull
Entries 64
Mean 24.99
Std Dev 28.42

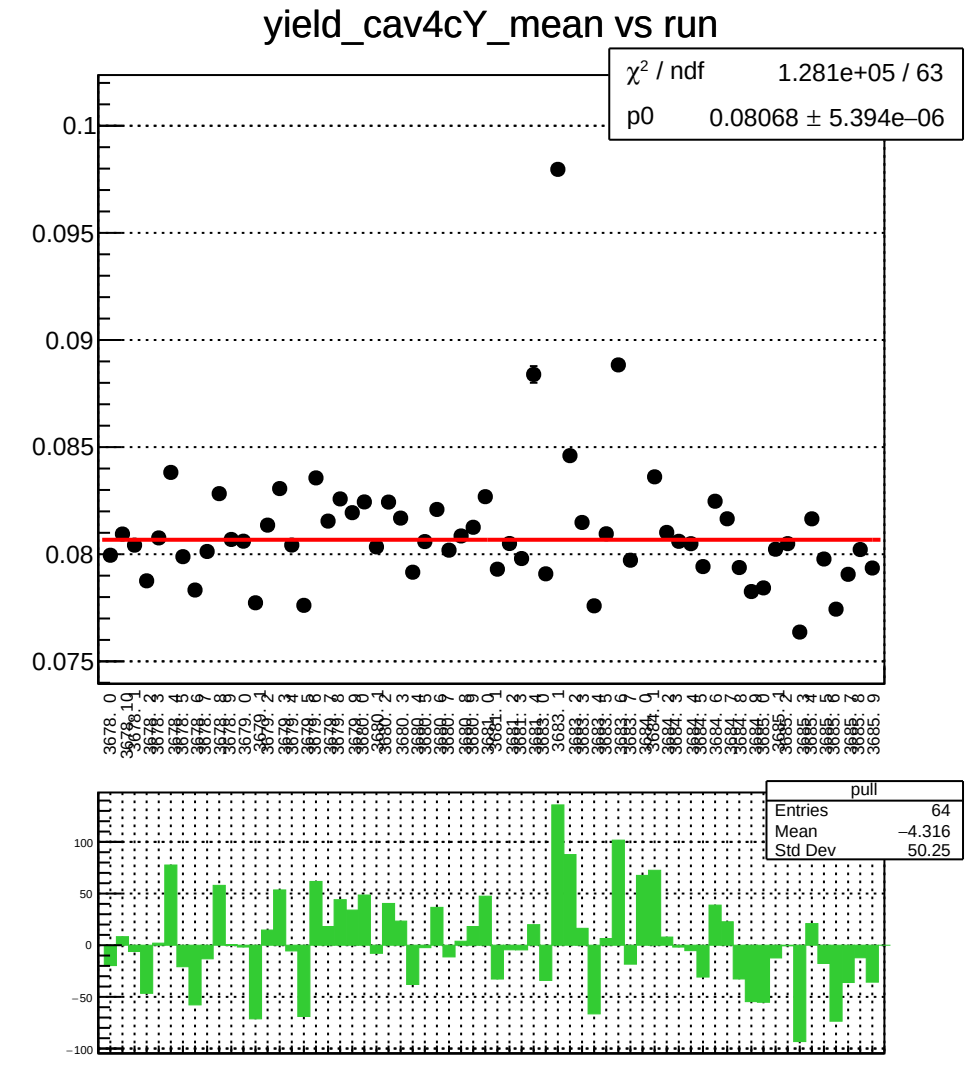

pull1D
Entries 64
Mean 5.716
Std Dev 0

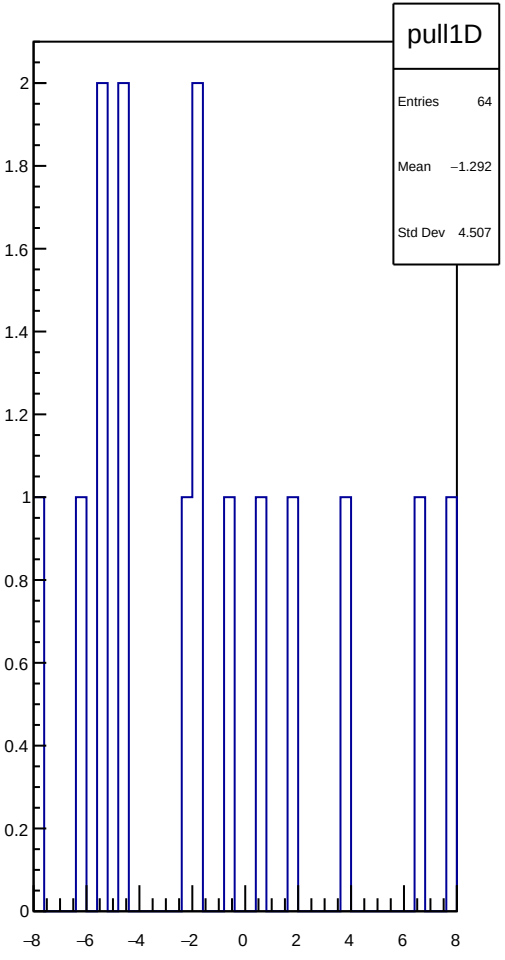

yield_cav4bY_rms vs run
χ² / ndf 4.197e+05 / 63
p0 0.5231 ± 0.0005874
2.5
2
1.5
1
0.5

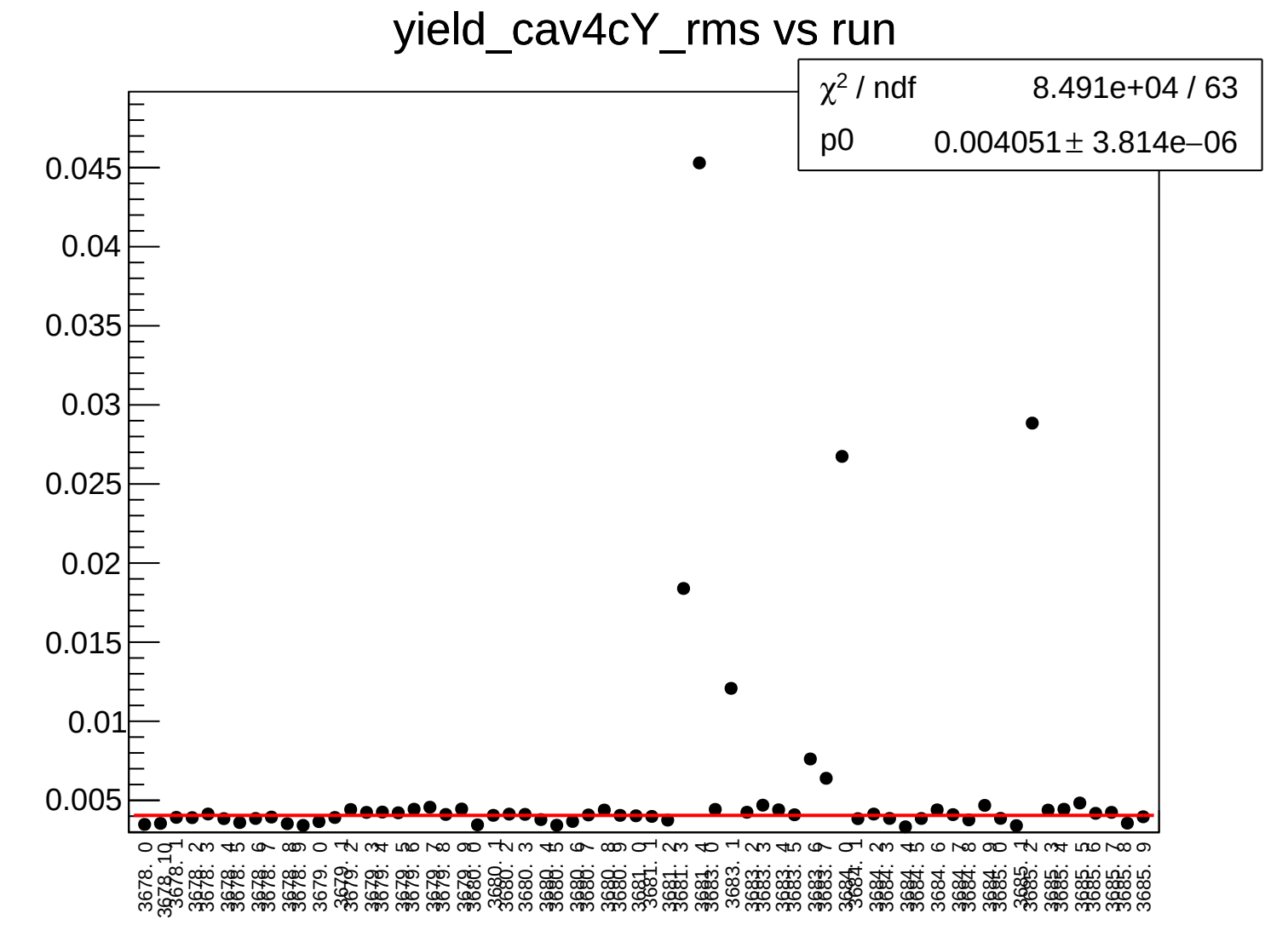

yield_cav4cX_mean vs run
χ² / ndf 1.438e+05 / 63
p0 0.03411± 3.021e–06
0.044
0.042
0.04
0.038
0.036
0.034
0.032
0.03
pull
Entries 64
Mean 17.83
Std Dev 32.92
200
150
100
50
0
–50

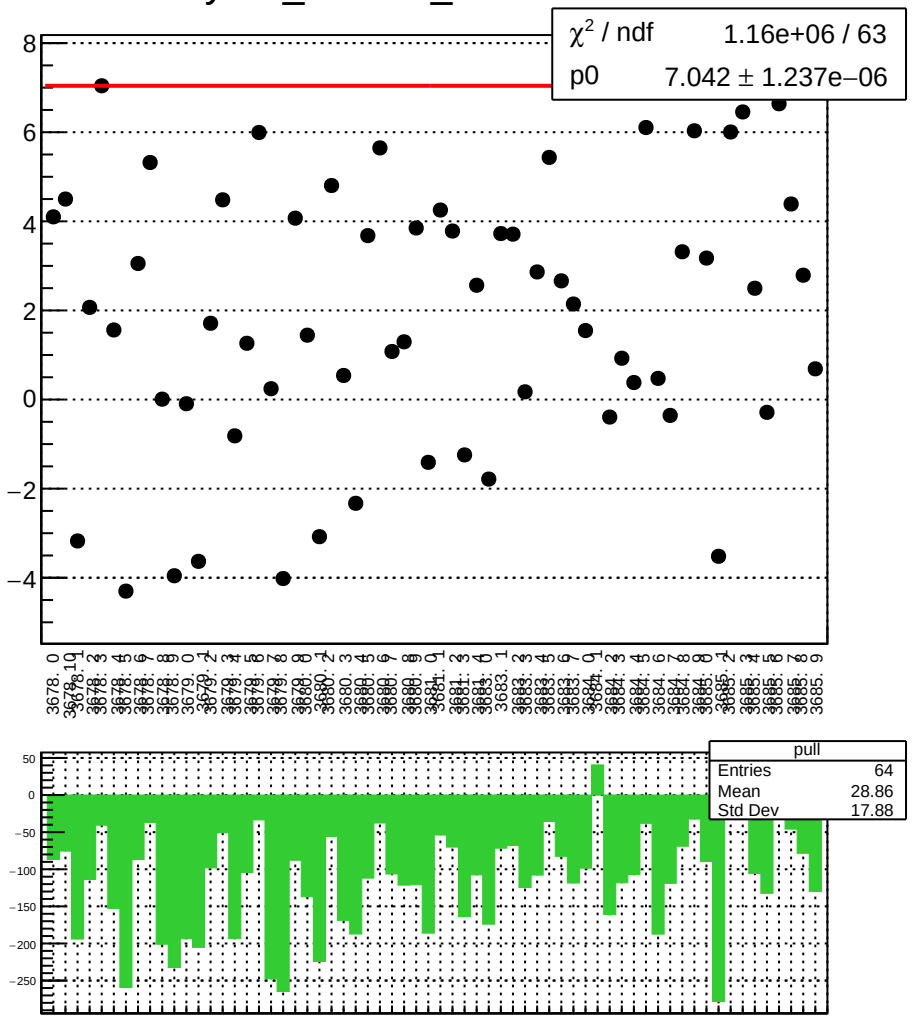

pull1D
Entries 64
Mean –1.292
Std Dev 4.965
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

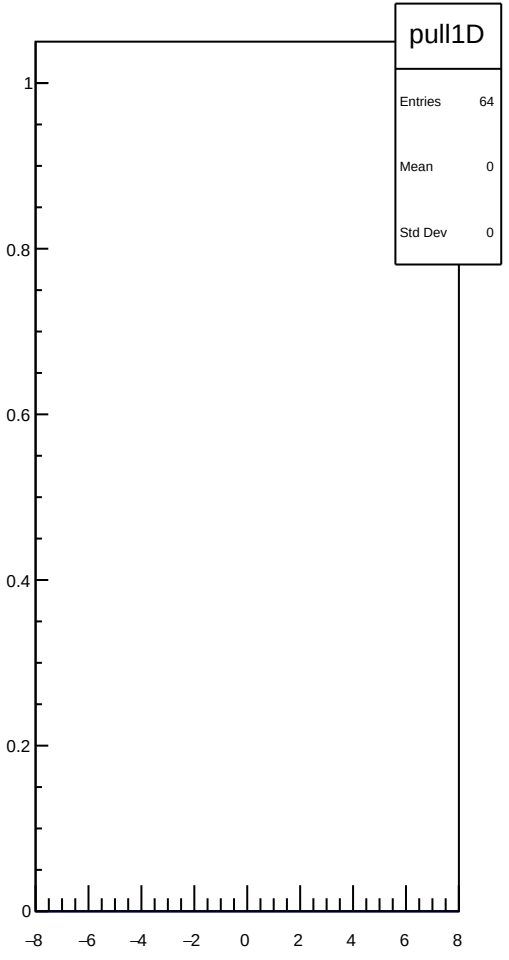

yield_cav4cX_rms vs run
χ² / ndf 1.27e+05 / 63
p0 0.002226 ± 2.136e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

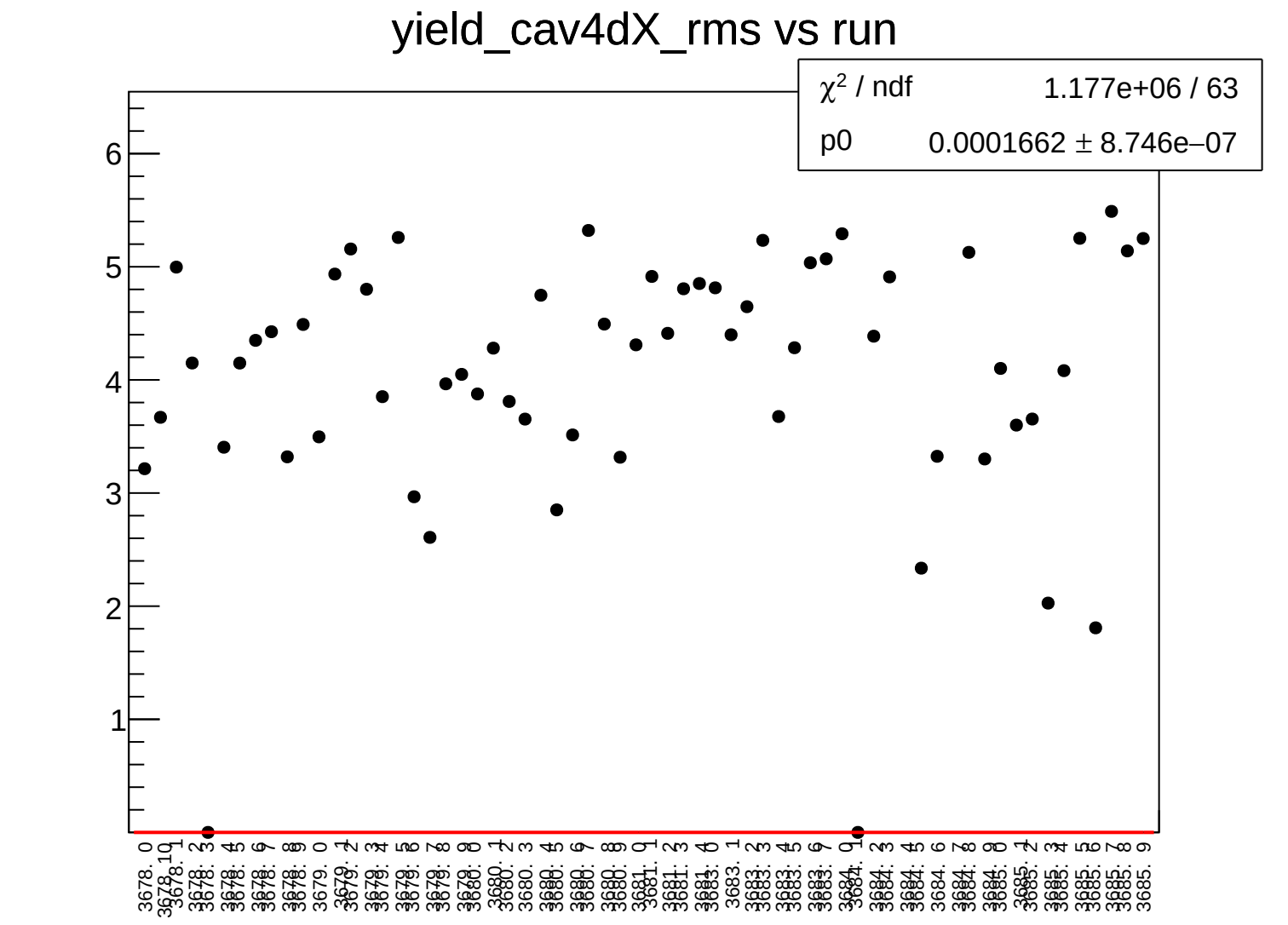

yield_cav4cY_mean vs run
χ² / ndf 1.281e+05 / 63
p0 0.08068 ± 5.394e−06
pull
Entries 64
Mean −4.316
Std Dev 50.25

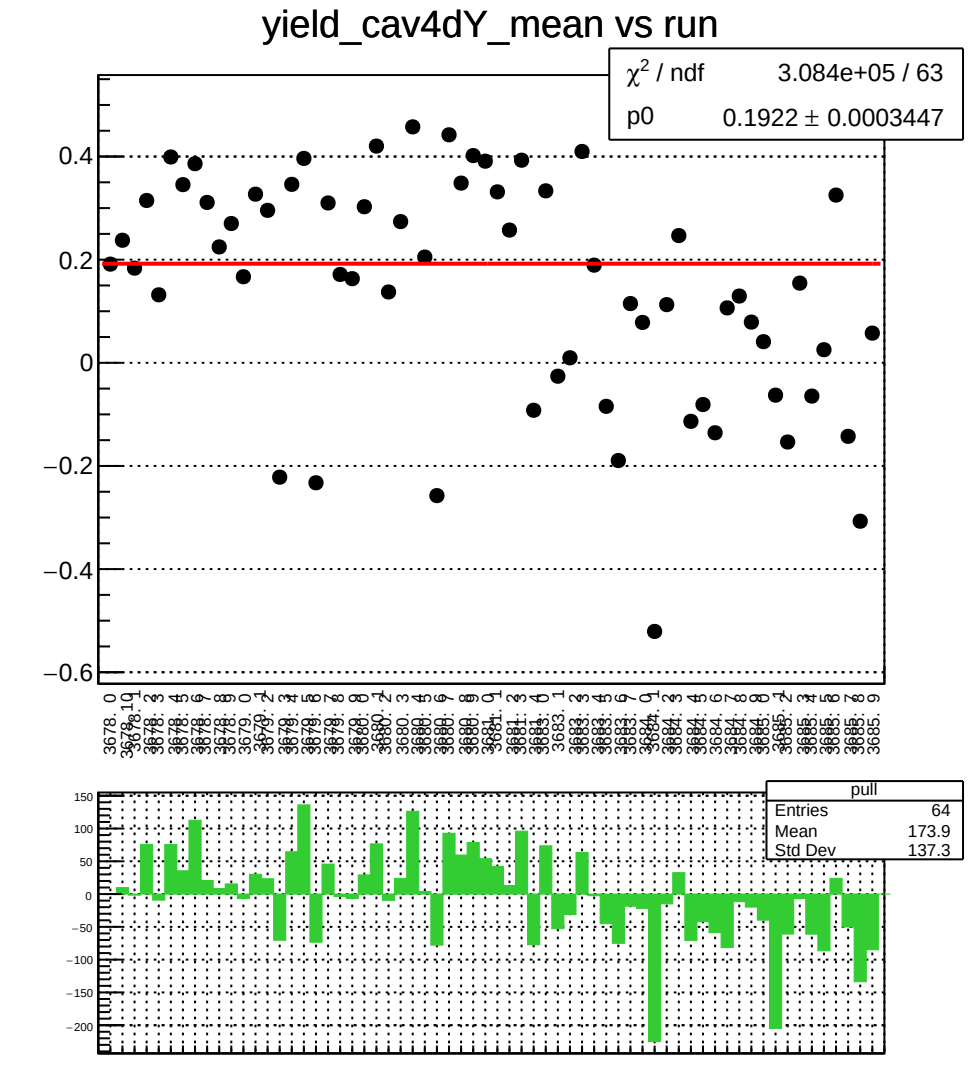

pull1D
Entries 64
Mean −1.292
Std Dev 4.507

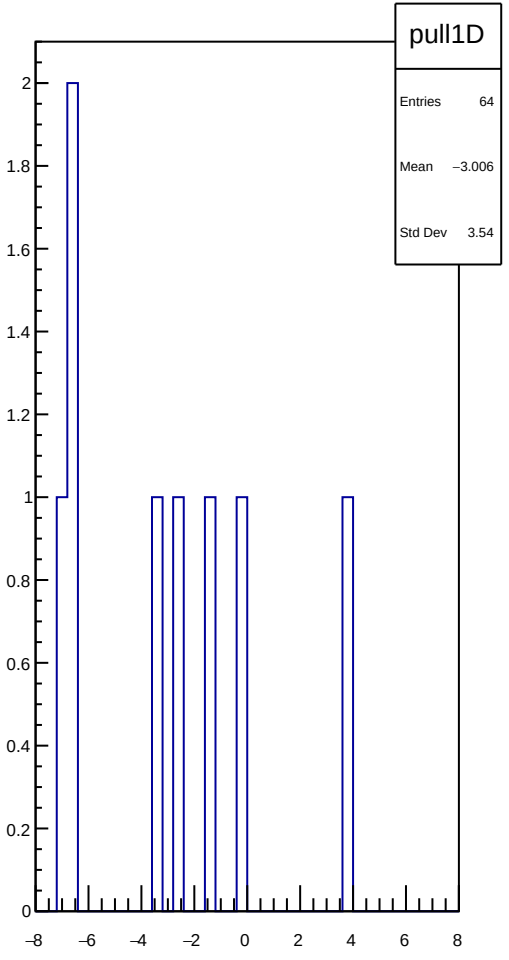

yield_cav4cY_rms vs run
χ² / ndf 8.491e+04 / 63
p0 0.004051 ± 3.814e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

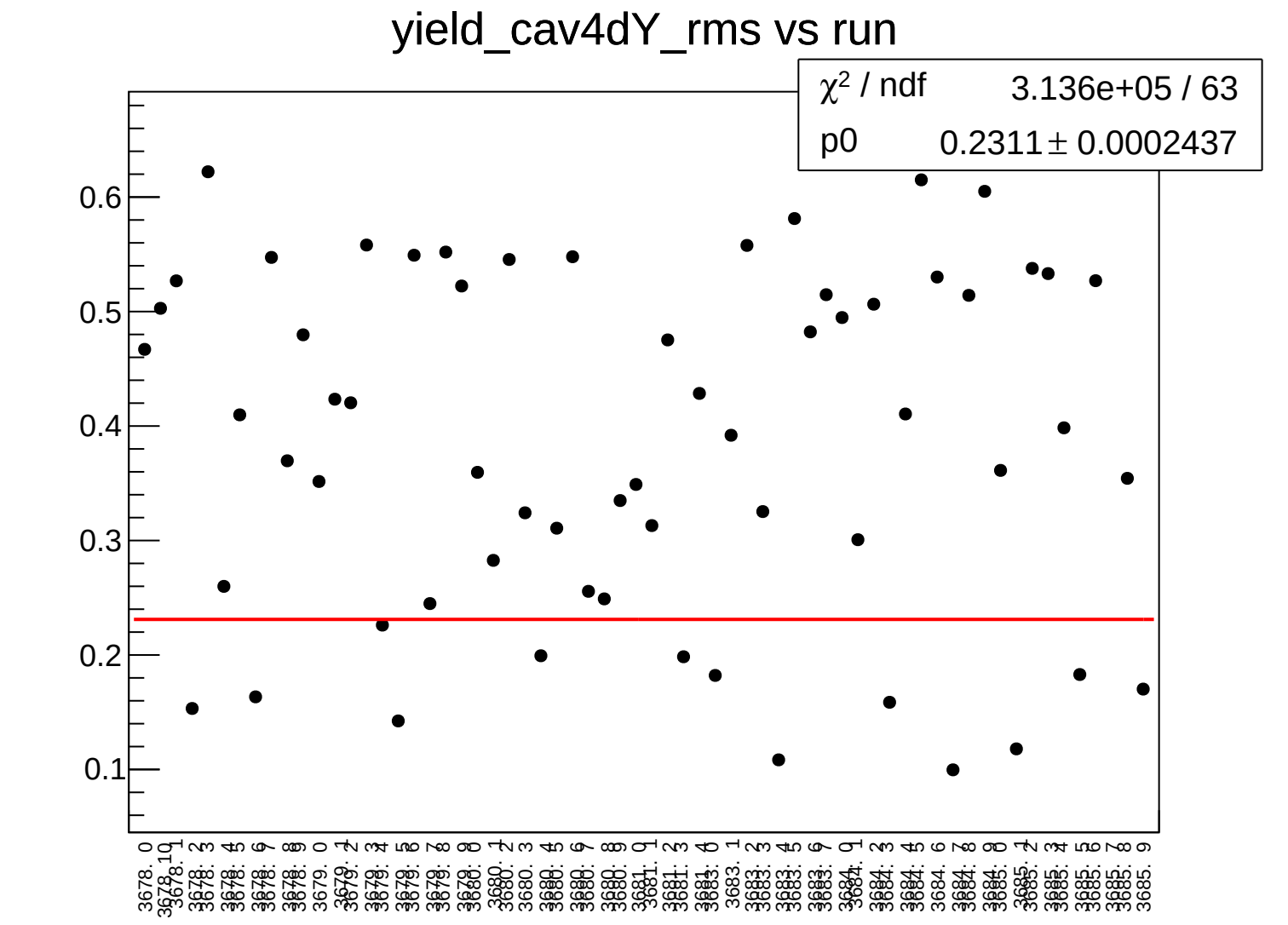

yield_cav4dX_mean vs run
χ² / ndf 1.16e+06 / 63
p0 7.042 ± 1.237e−06
pull
Entries 64
Mean 28.86
Std Dev 17.88

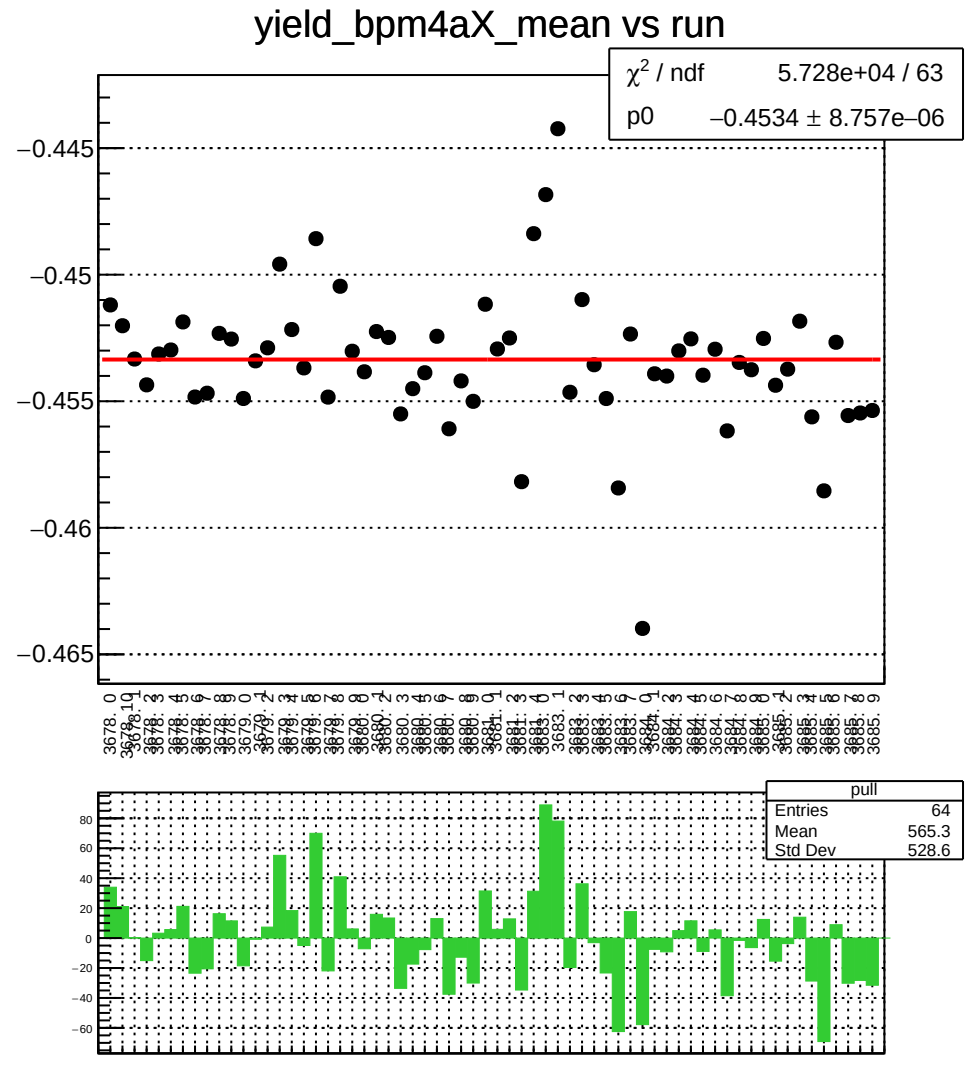

pull1D
Entries 64
Mean 0
Std Dev 0

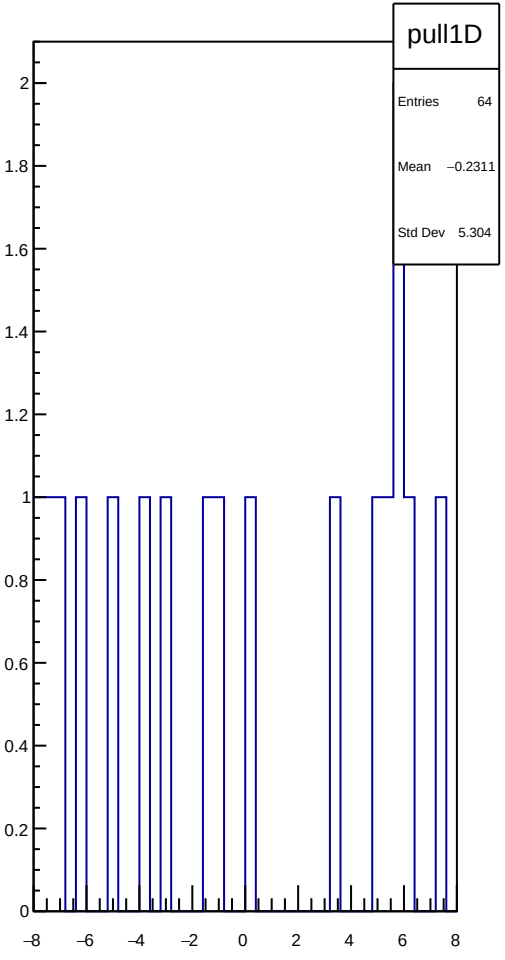

yield_cav4dX_rms vs run
χ² / ndf 1.177e+06 / 63
p0 0.0001662 ± 8.746e−07
6
5
4
3
2
1

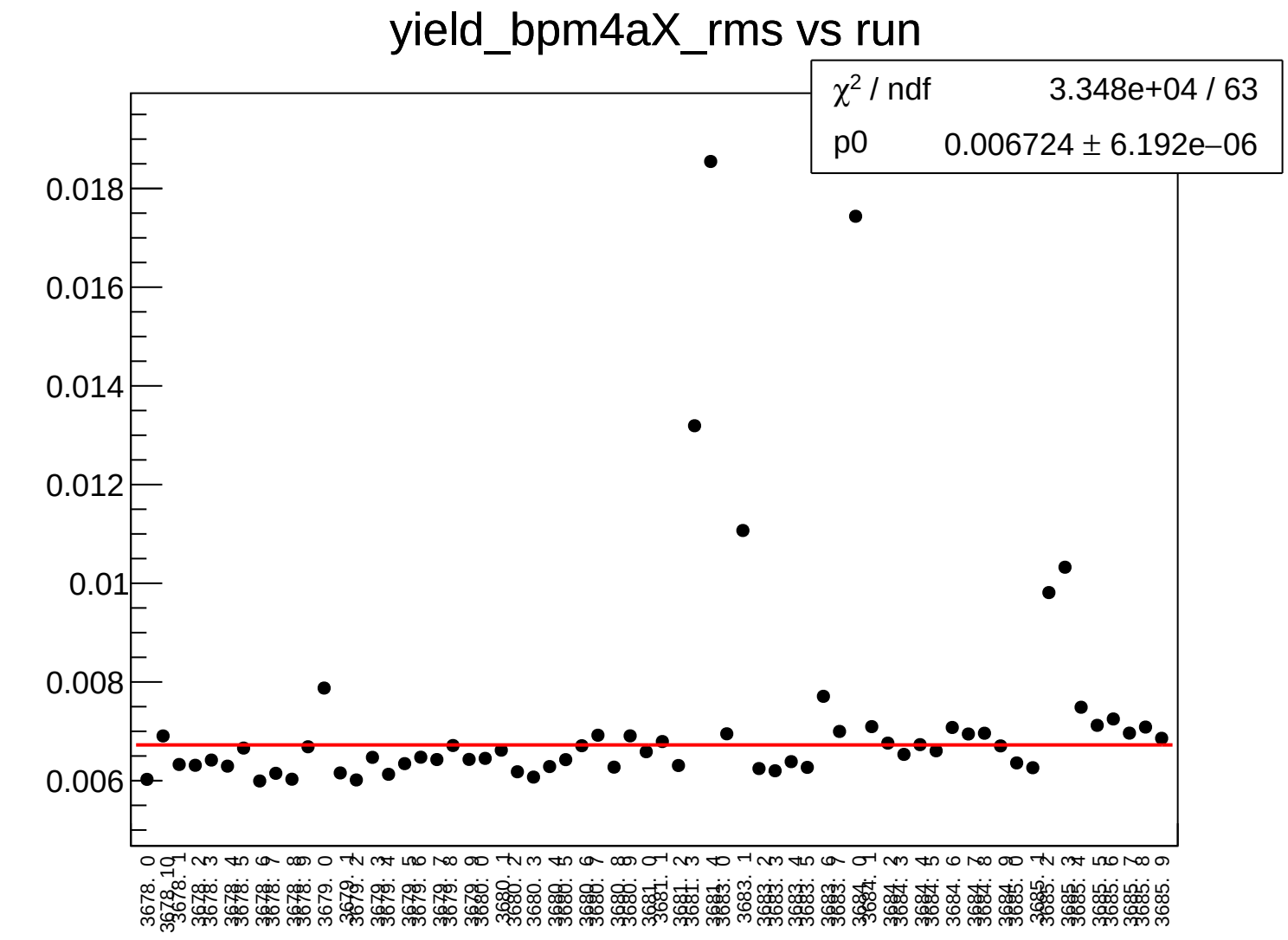

yield_cav4dY_mean vs run
χ² / ndf 3.084e+05 / 63
p0 0.1922 ± 0.0003447
pull
Entries 64
Mean 173.9
Std Dev 137.3

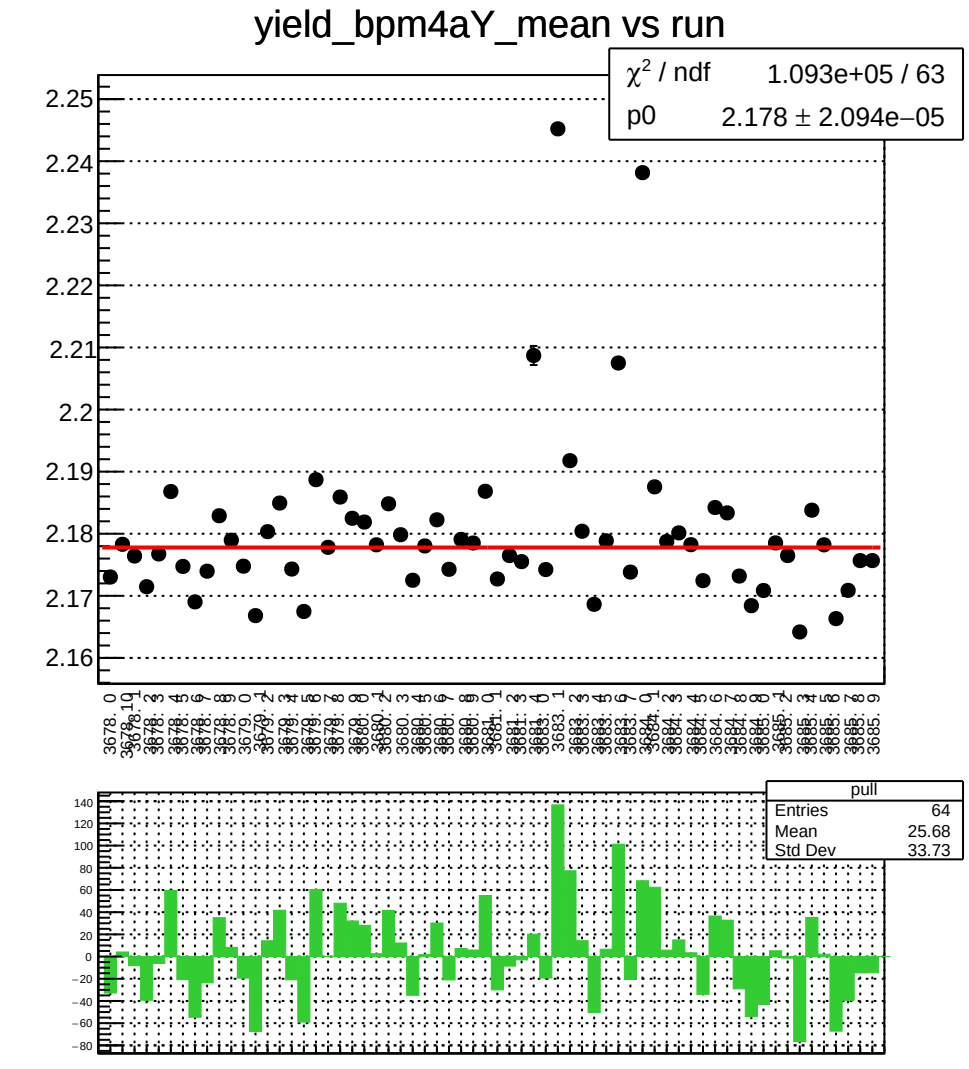

pull1D
Entries 64
Mean −3.006
Std Dev 3.54

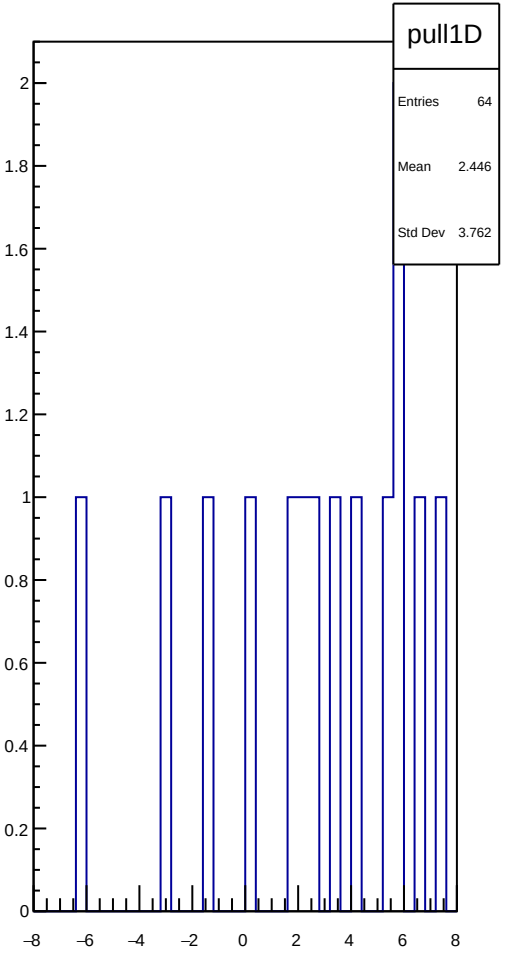

yield_cav4dY_rms vs run
χ² / ndf 3.136e+05 / 63
p0 0.2311 ± 0.0002437
0.6
0.5
0.4
0.3
0.2
0.1

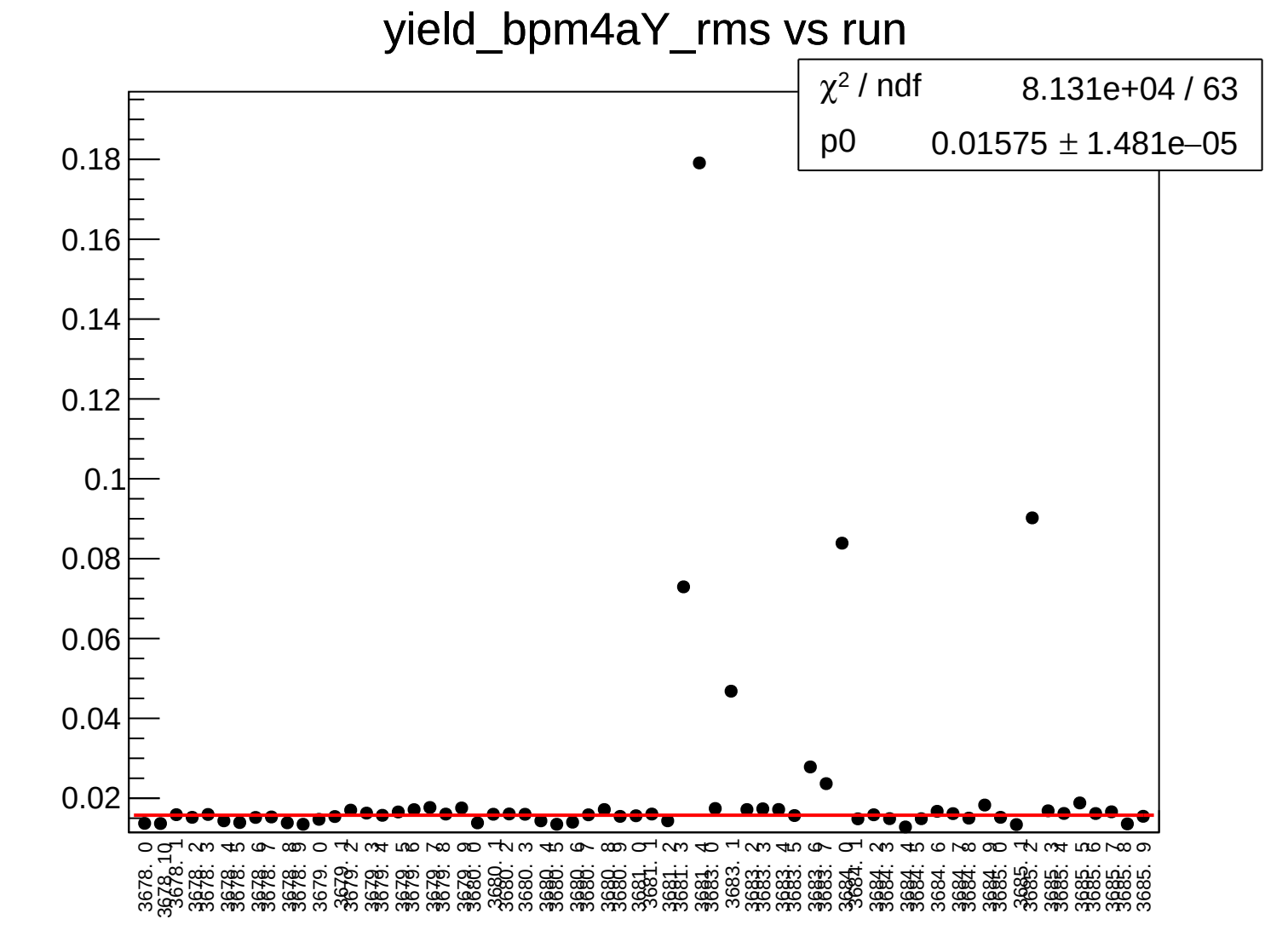

yield_bpm4aX_mean vs run
χ² / ndf 5.728e+04 / 63
p0 −0.4534 ± 8.757e−06
−0.445
−0.45
−0.455
−0.46
−0.465
pull
Entries 64
Mean 565.3
Std Dev 528.6
80
60
40
20
0
−20
−40
−60

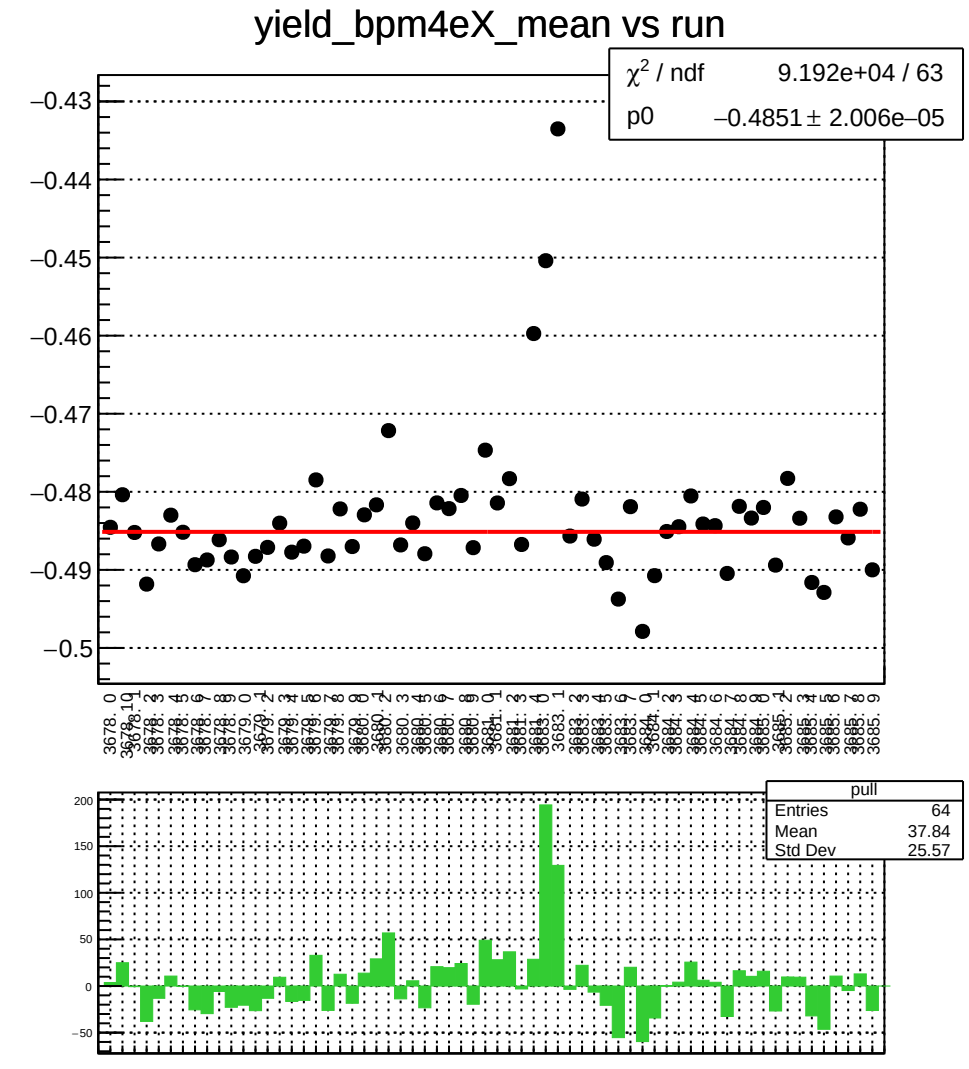

pull1D
Entries 64
Mean −0.2311
Std Dev 5.304
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

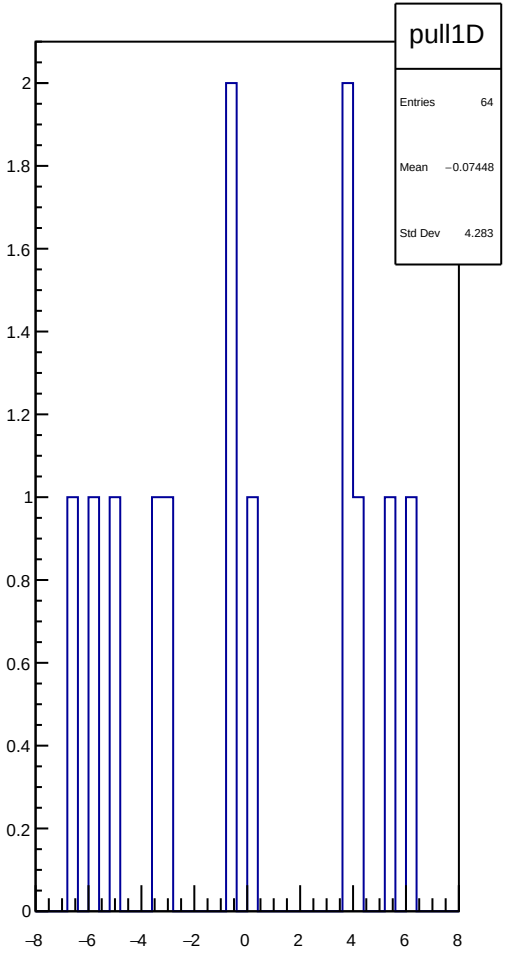

yield_bpm4aX_rms vs run
$\chi^2$ / ndf 3.348e+04 / 63
p0 0.006724 ± 6.192e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

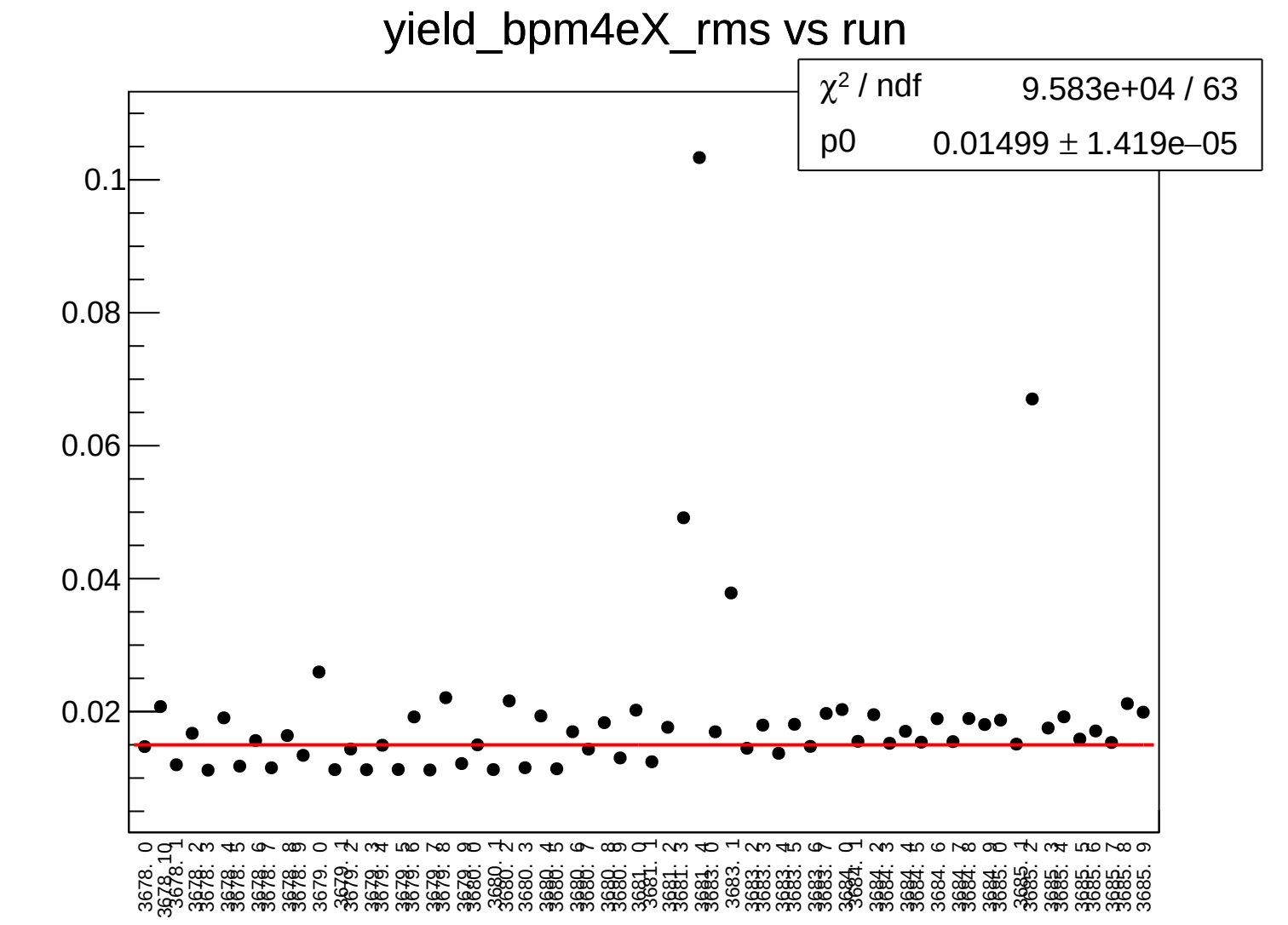

yield_bpm4aY_mean vs run
χ² / ndf 1.093e+05 / 63
p0 2.178 ± 2.094e−05
pull
Entries 64
Mean 25.68
Std Dev 33.73

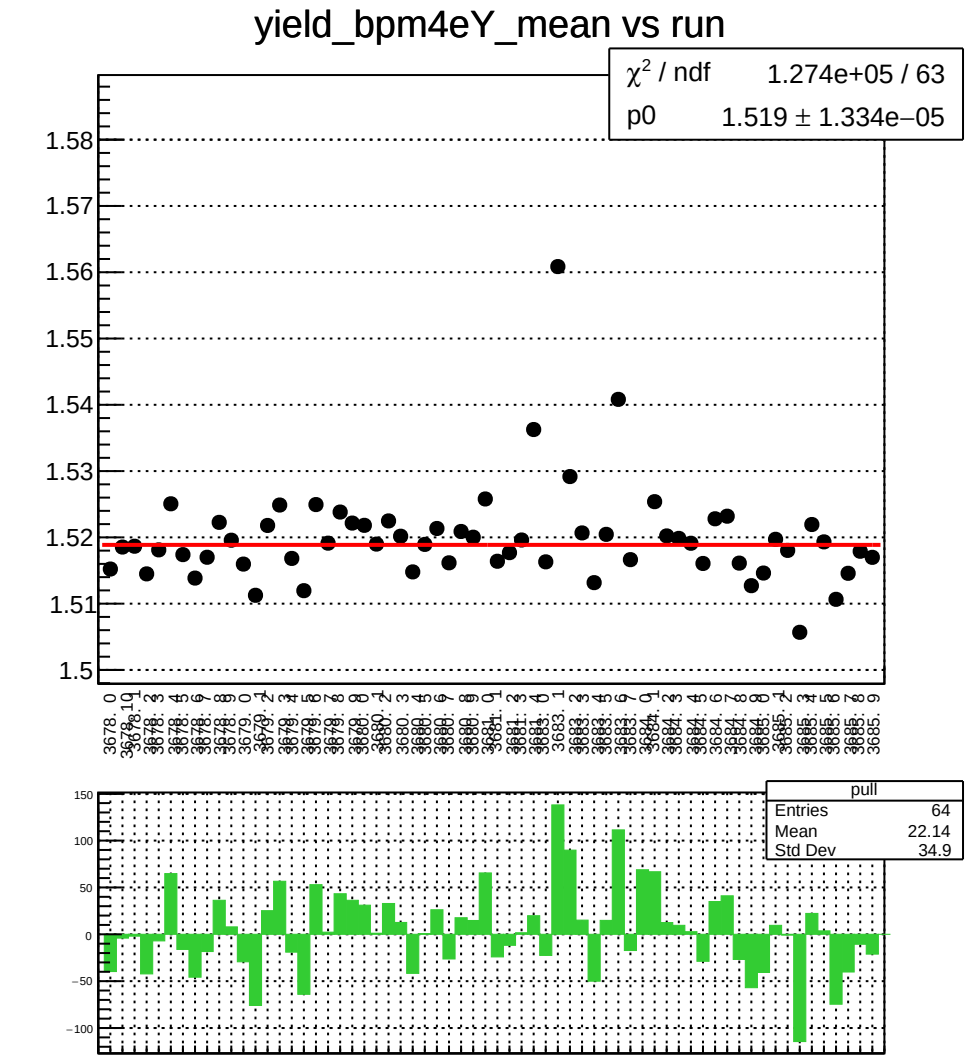

pull1D
Entries 64
Mean 2.446
Std Dev 3.762

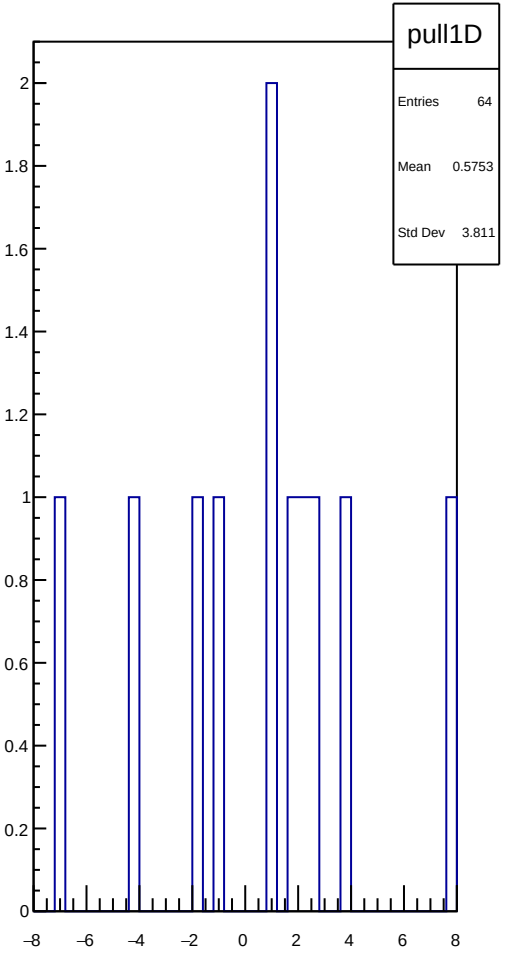

yield_bpm4aY_rms vs run
χ² / ndf 8.131e+04 / 63
p0 0.01575 ± 1.481e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

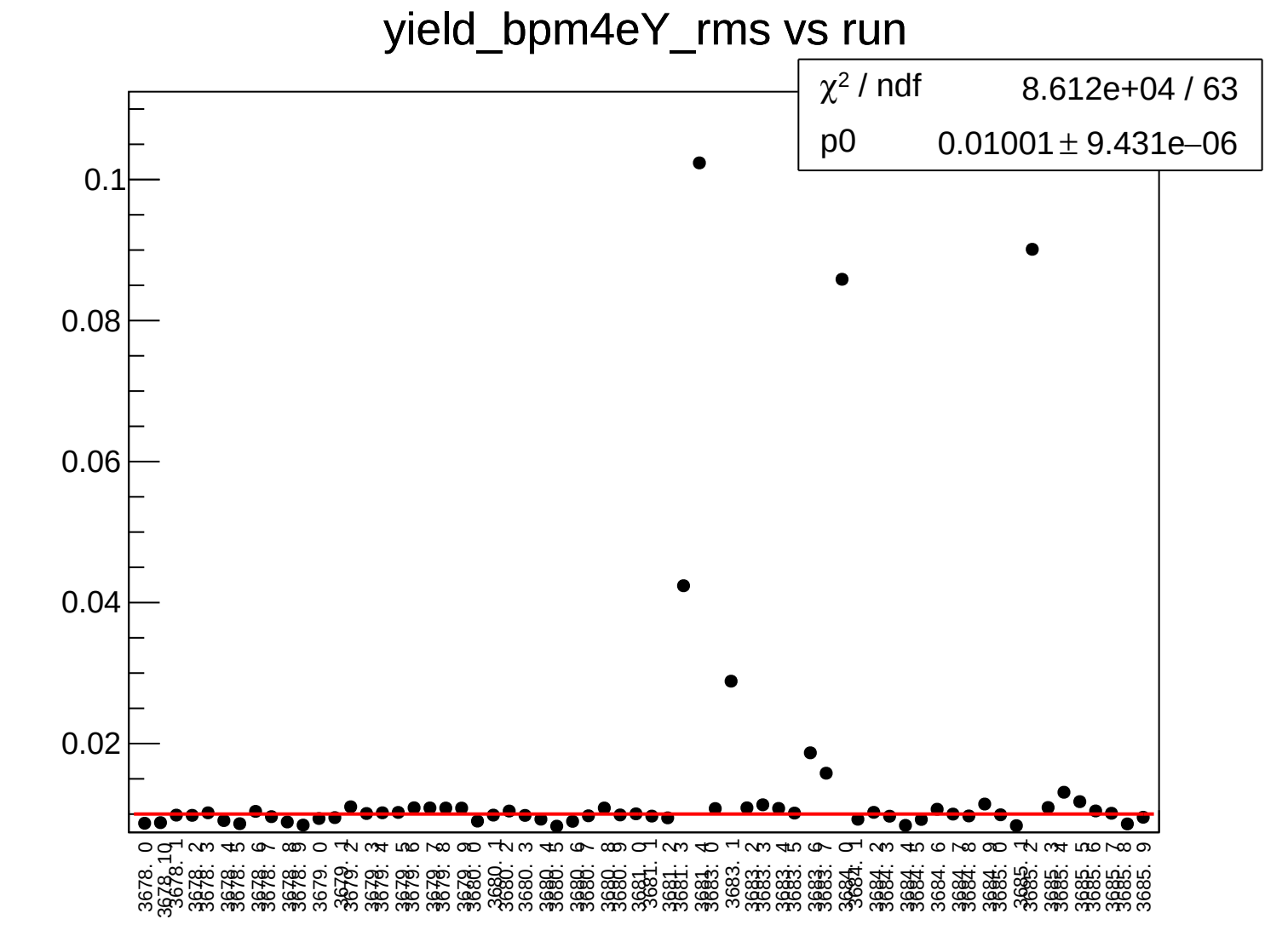

yield_bpm4eX_mean vs run
χ² / ndf 9.192e+04 / 63
p0 −0.4851 ± 2.006e−05
pull
Entries 64
Mean 37.84
Std Dev 25.57

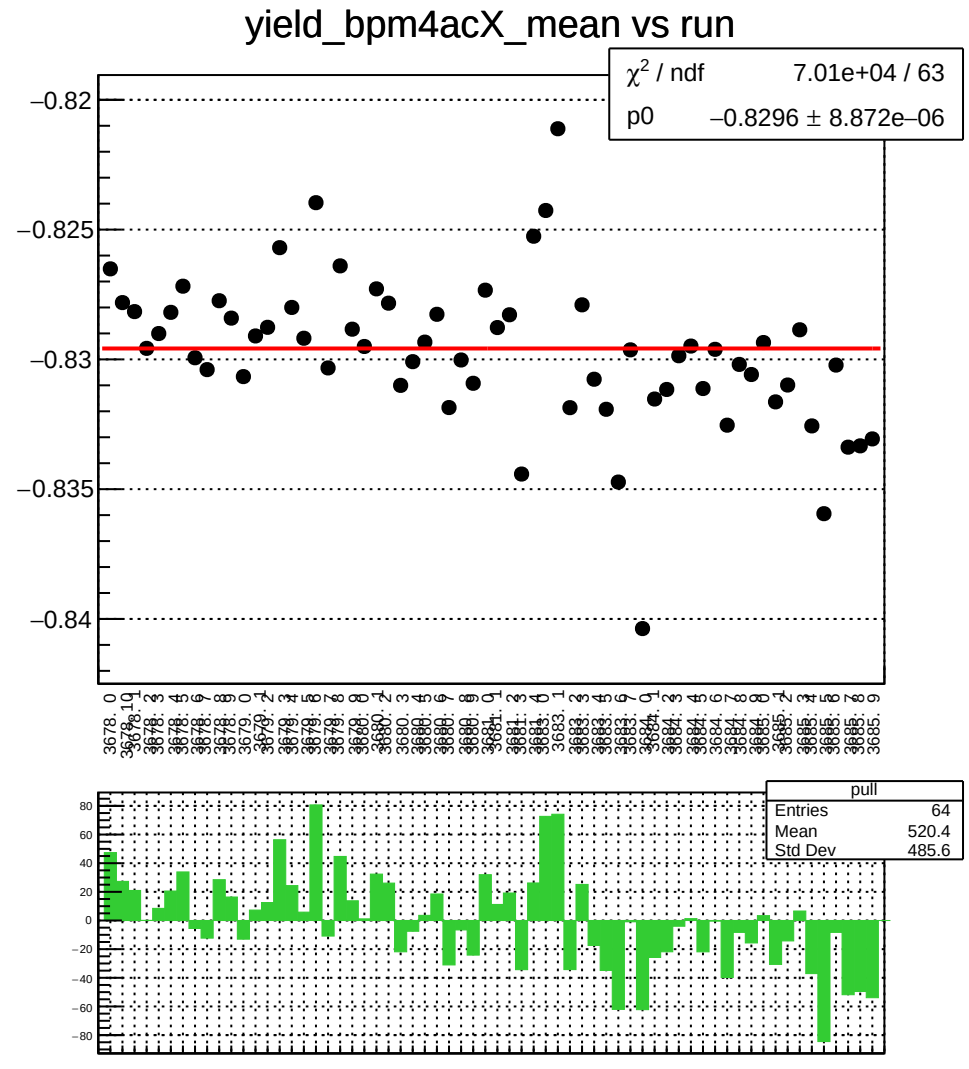

pull1D
Entries 64
Mean −0.07448
Std Dev 4.283

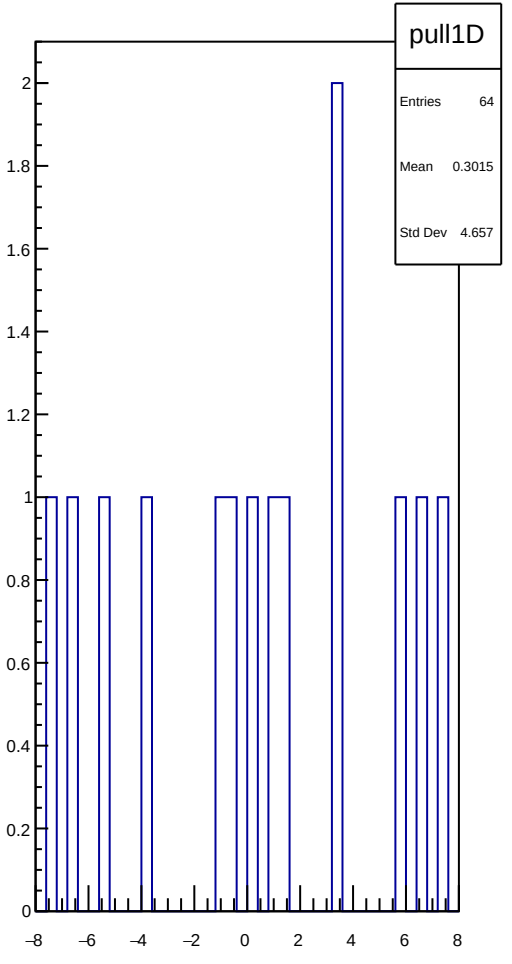

yield_bpm4eX_rms vs run
$\chi^2$ / ndf 9.583e+04 / 63
p0 0.01499 ± 1.419e−05
0.1
0.08
0.06
0.04
0.02

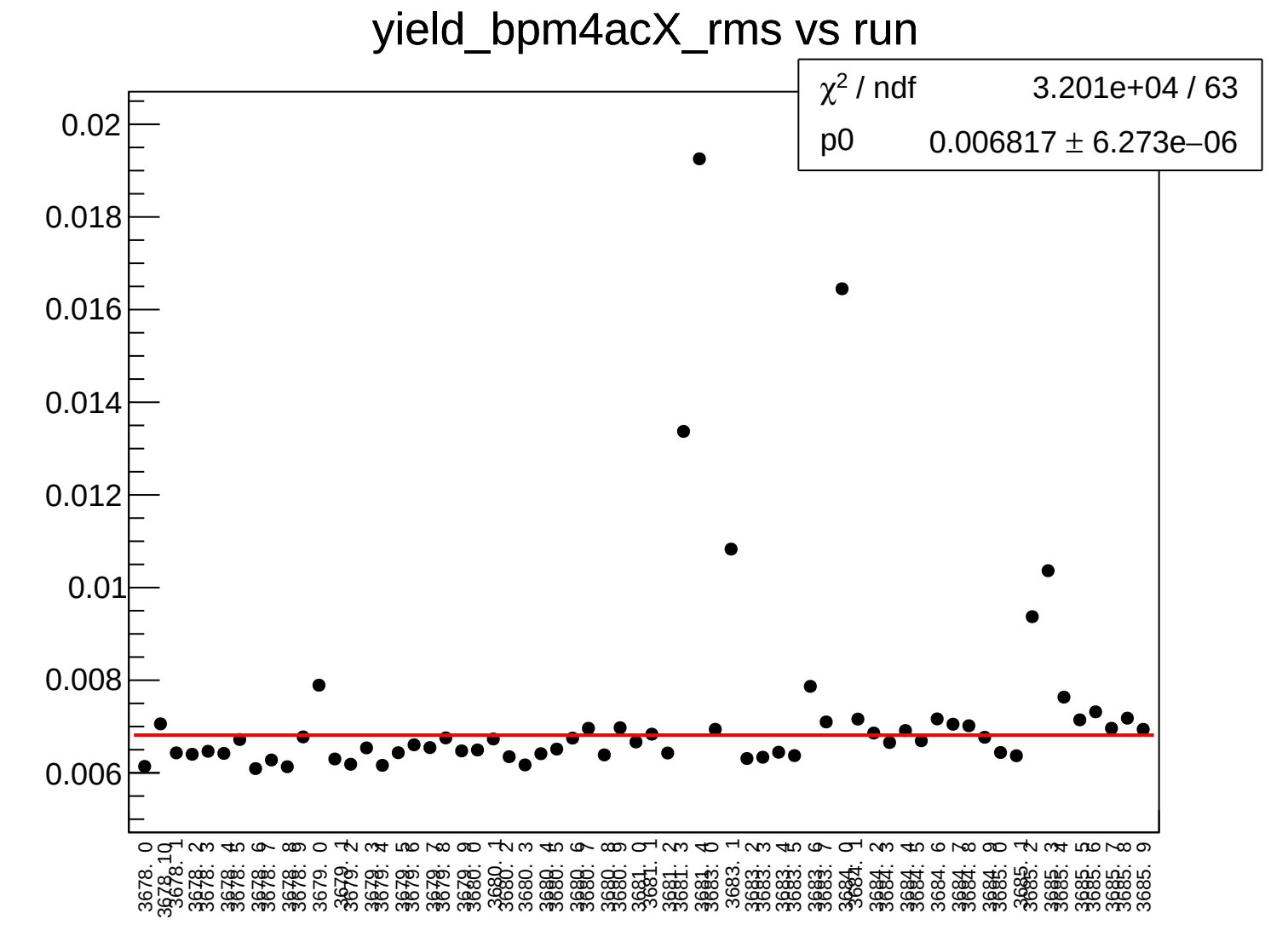

yield_bpm4eY_mean vs run
χ² / ndf 1.274e+05 / 63
p0 1.519 ± 1.334e−05
1.58
1.57
1.56
1.55
1.54
1.53
1.52
1.51
1.5
pull
Entries 64
Mean 22.14
Std Dev 34.9
150
100
50
0
−50
−100

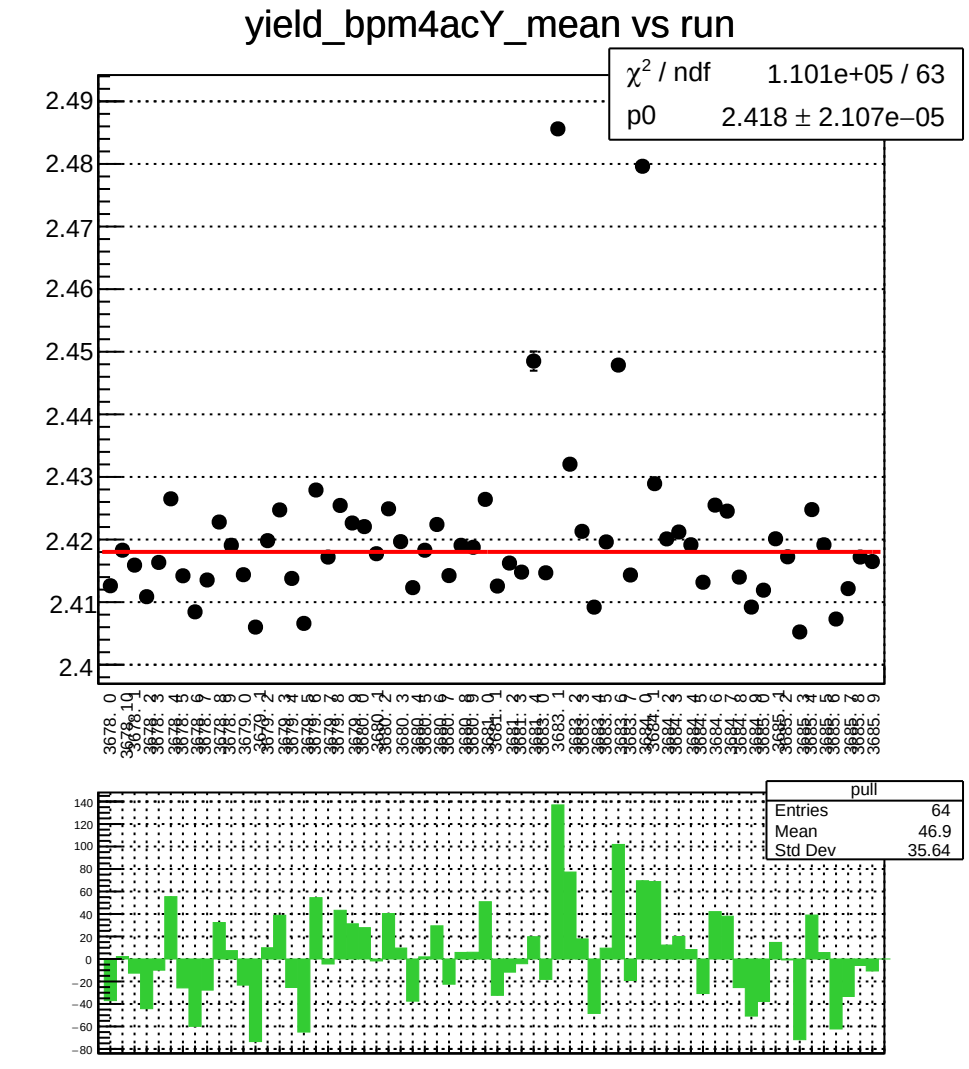

pull1D
Entries 64
Mean 0.5753
Std Dev 3.811
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

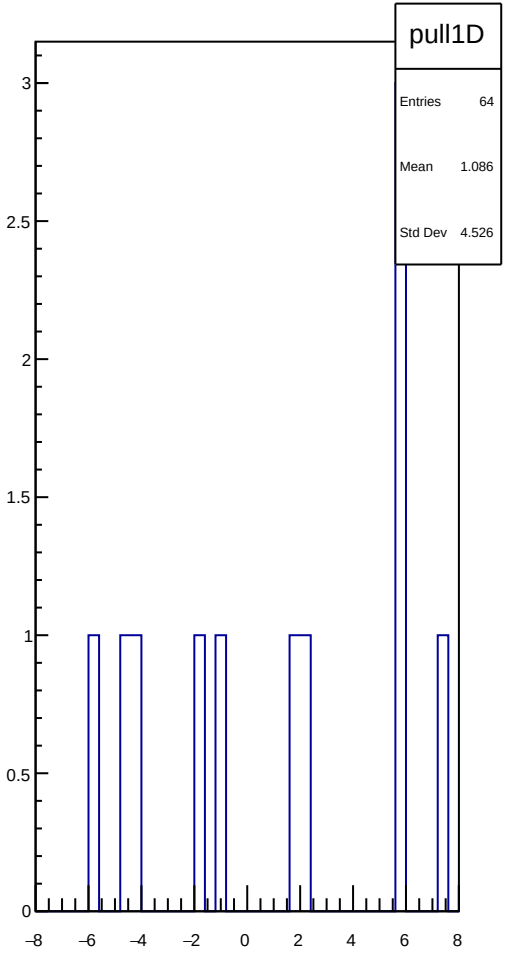

yield_bpm4eY_rms vs run
χ² / ndf 8.612e+04 / 63
p0 0.01001 ± 9.431e–06
0.1
0.08
0.06
0.04
0.02

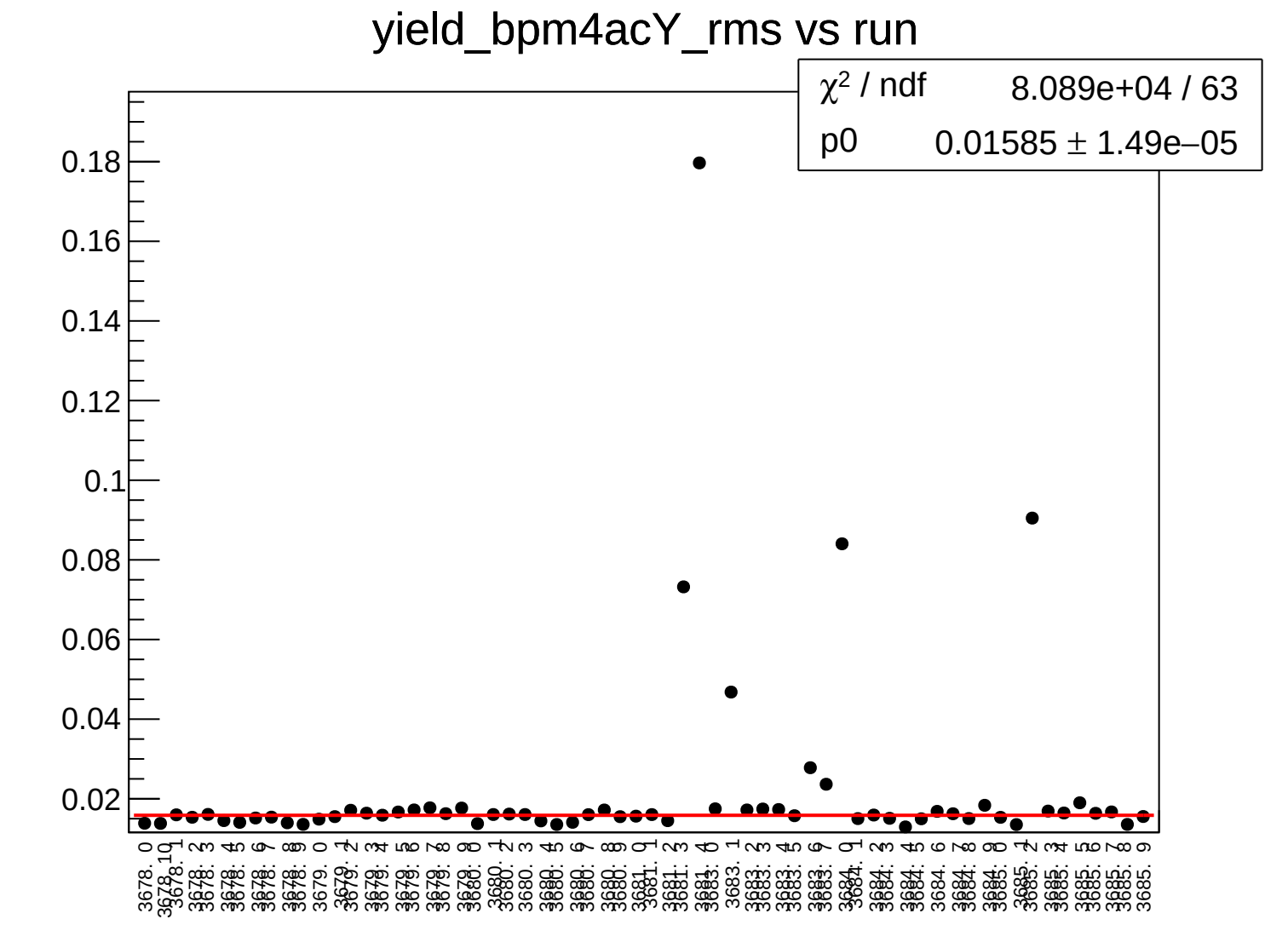

yield_bpm4acX_mean vs run
χ² / ndf 7.01e+04 / 63
p0 −0.8296 ± 8.872e−06
−0.82
−0.825
−0.83
−0.835
−0.84
pull
Entries 64
Mean 520.4
Std Dev 485.6
80
60
40
20
0
−20
−40
−60
−80

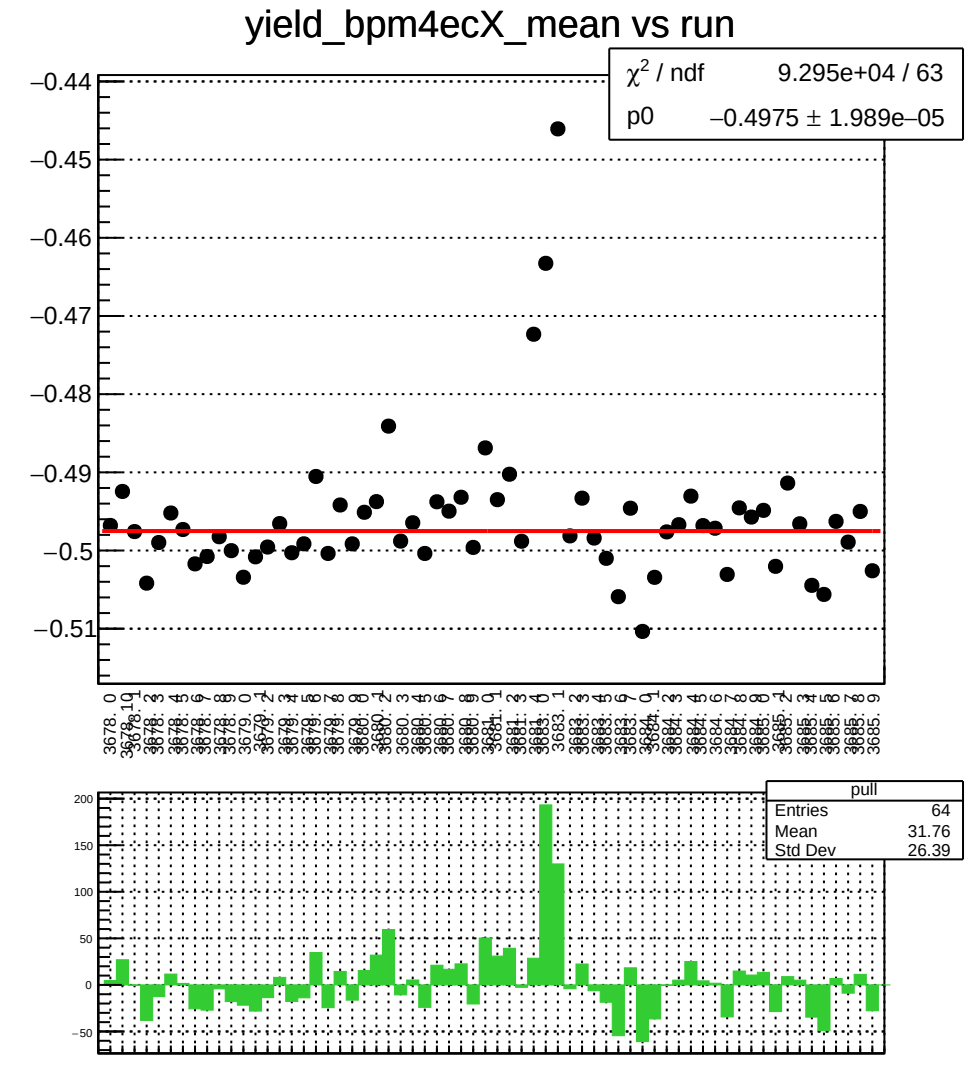

pull1D
Entries 64
Mean 0.3015
Std Dev 4.657
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

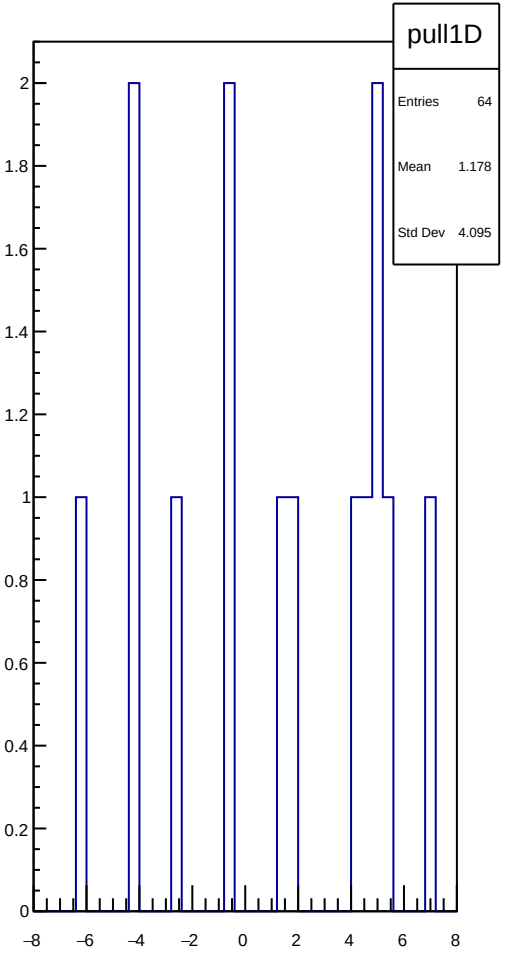

yield_bpm4acX_rms vs run
χ² / ndf 3.201e+04 / 63
p0 0.006817 ± 6.273e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

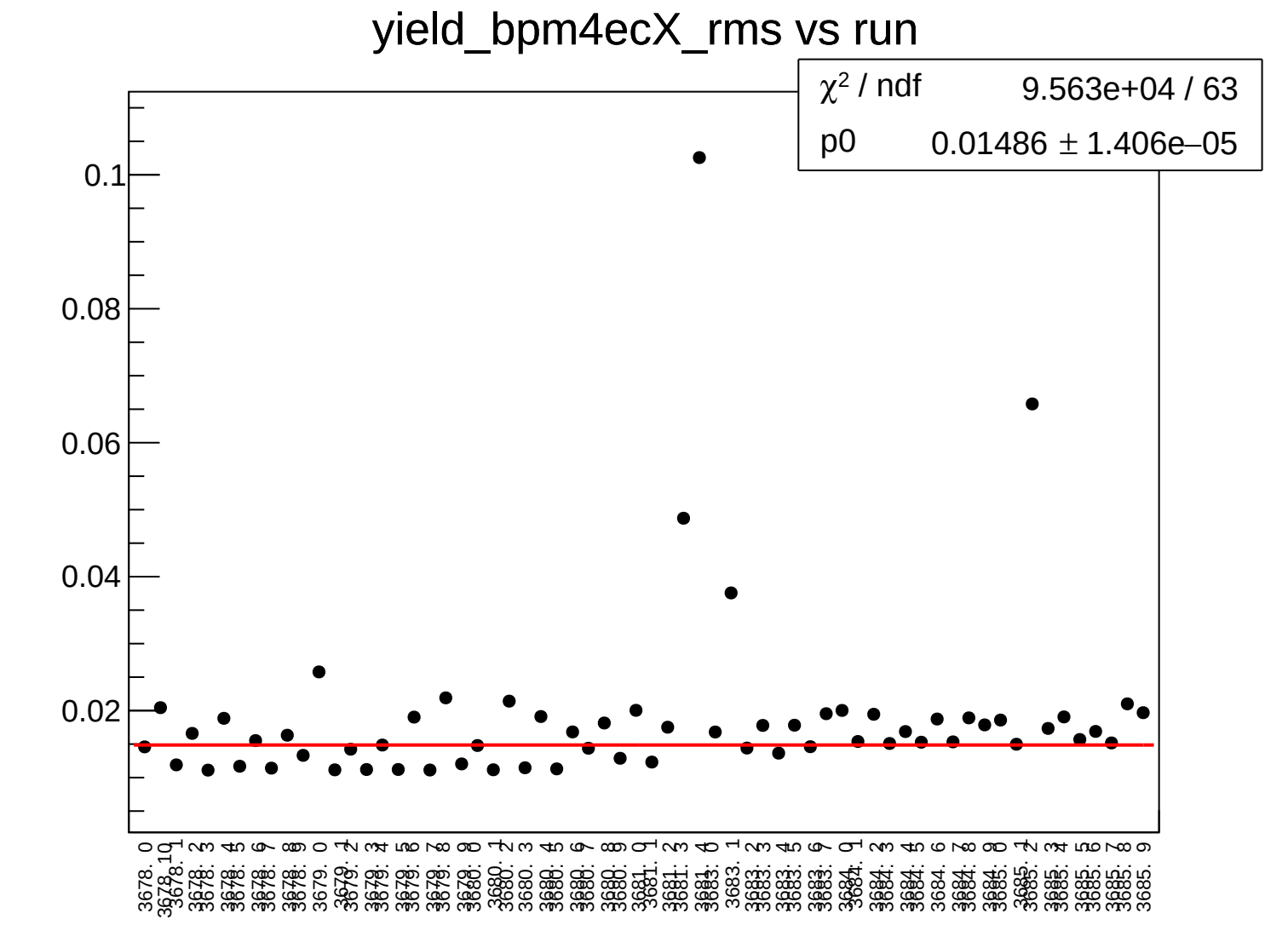

yield_bpm4acY_mean vs run
χ² / ndf 1.101e+05 / 63
p0 2.418 ± 2.107e−05
pull
Entries 64
Mean 46.9
Std Dev 35.64

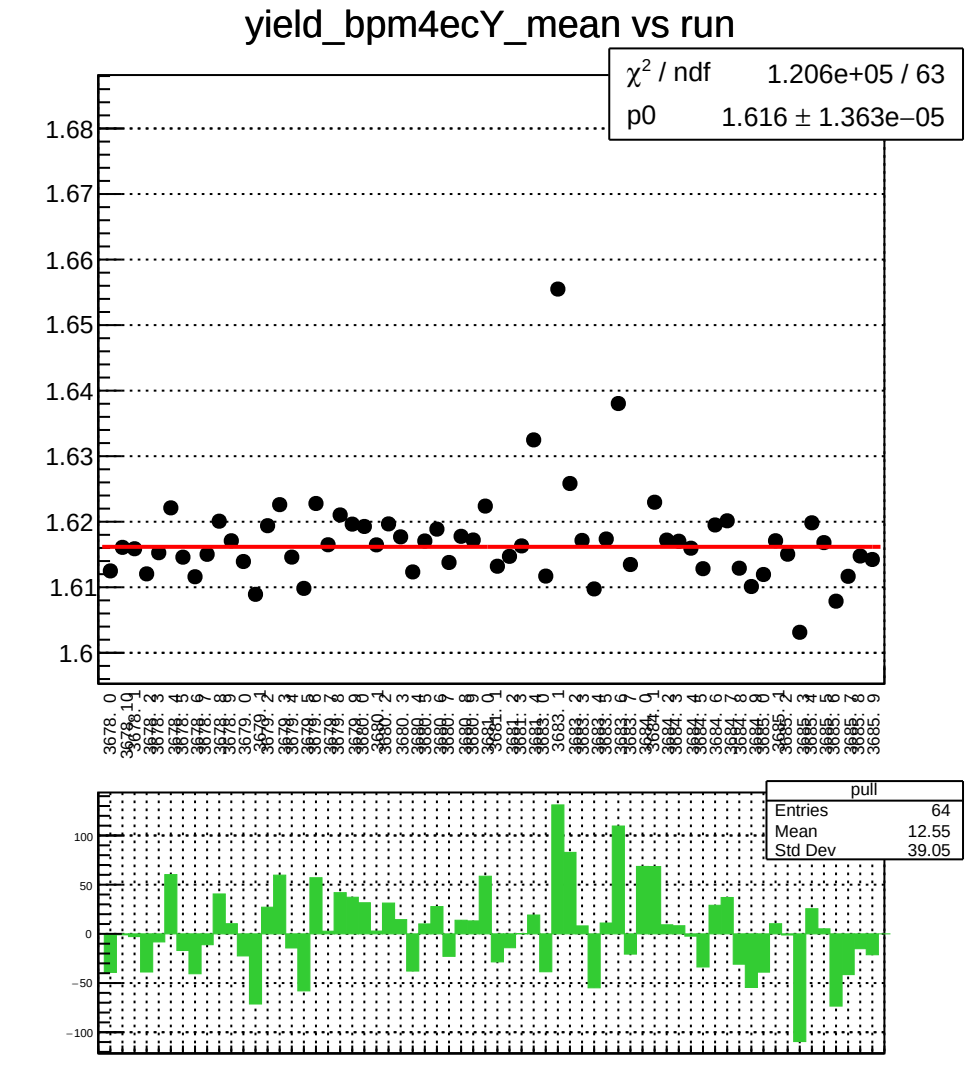

pull1D
Entries 64
Mean 1.086
Std Dev 4.526

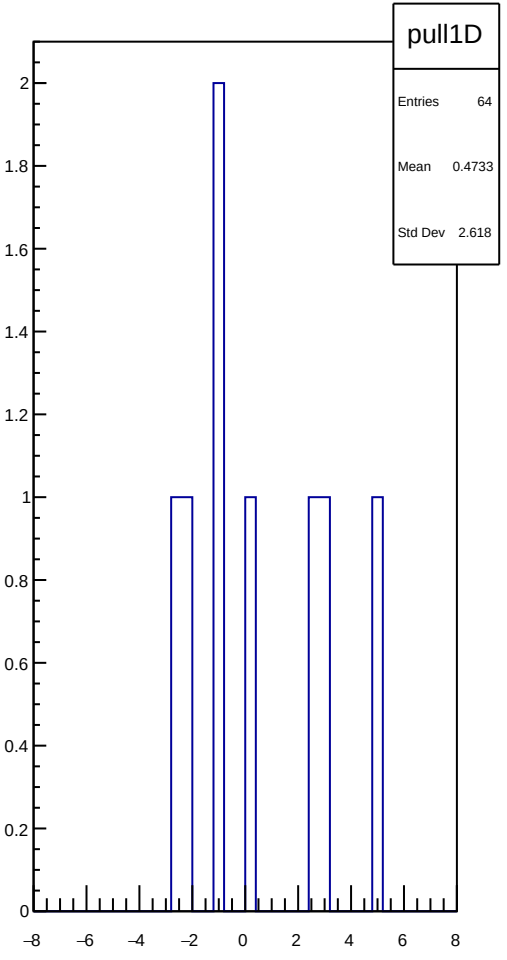

yield_bpm4acY_rms vs run
χ² / ndf 8.089e+04 / 63
p0 0.01585 ± 1.49e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

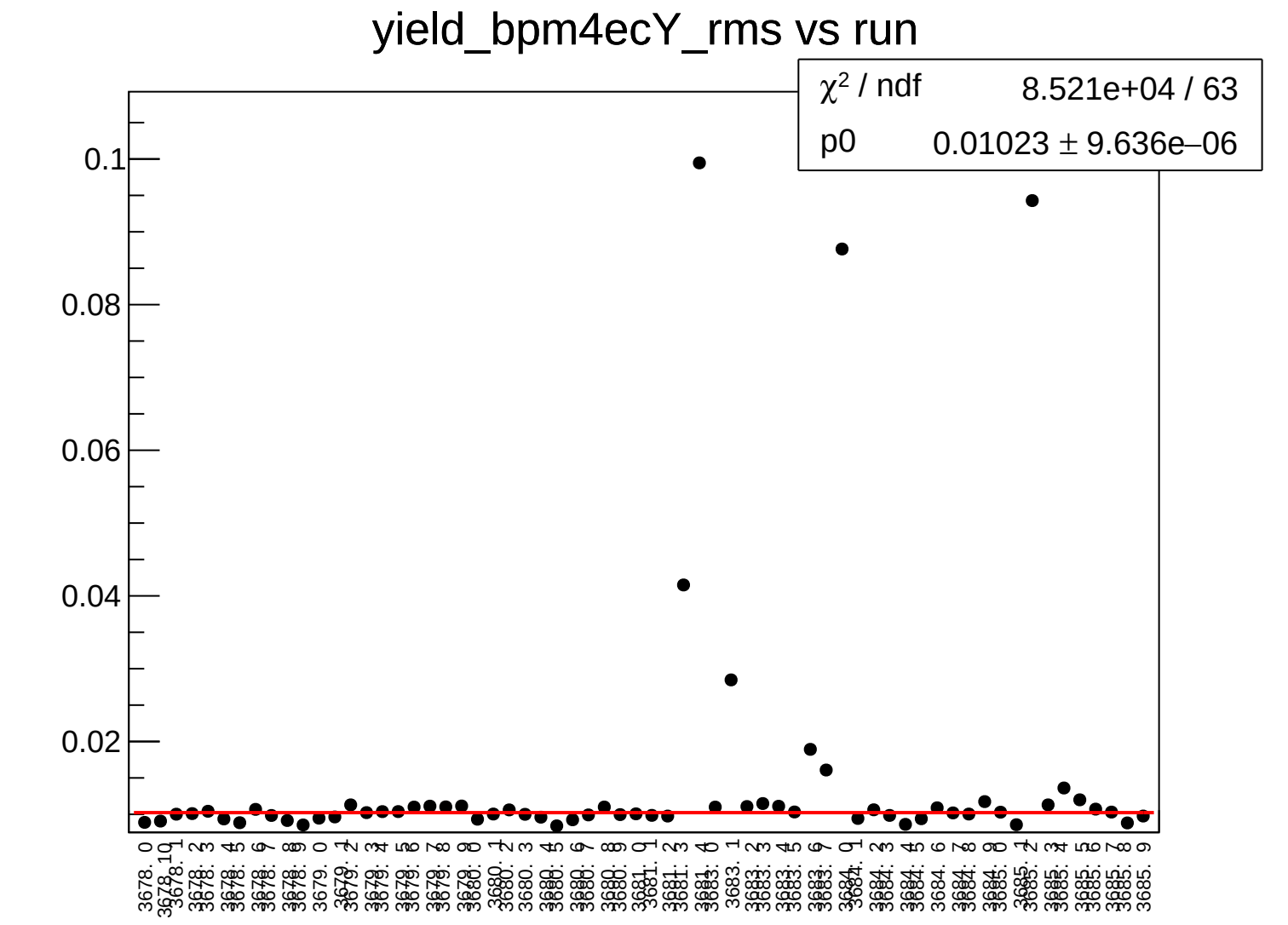

yield_bpm4ecX_mean vs run
χ² / ndf 9.295e+04 / 63
p0 −0.4975 ± 1.989e−05
pull
Entries 64
Mean 31.76
Std Dev 26.39

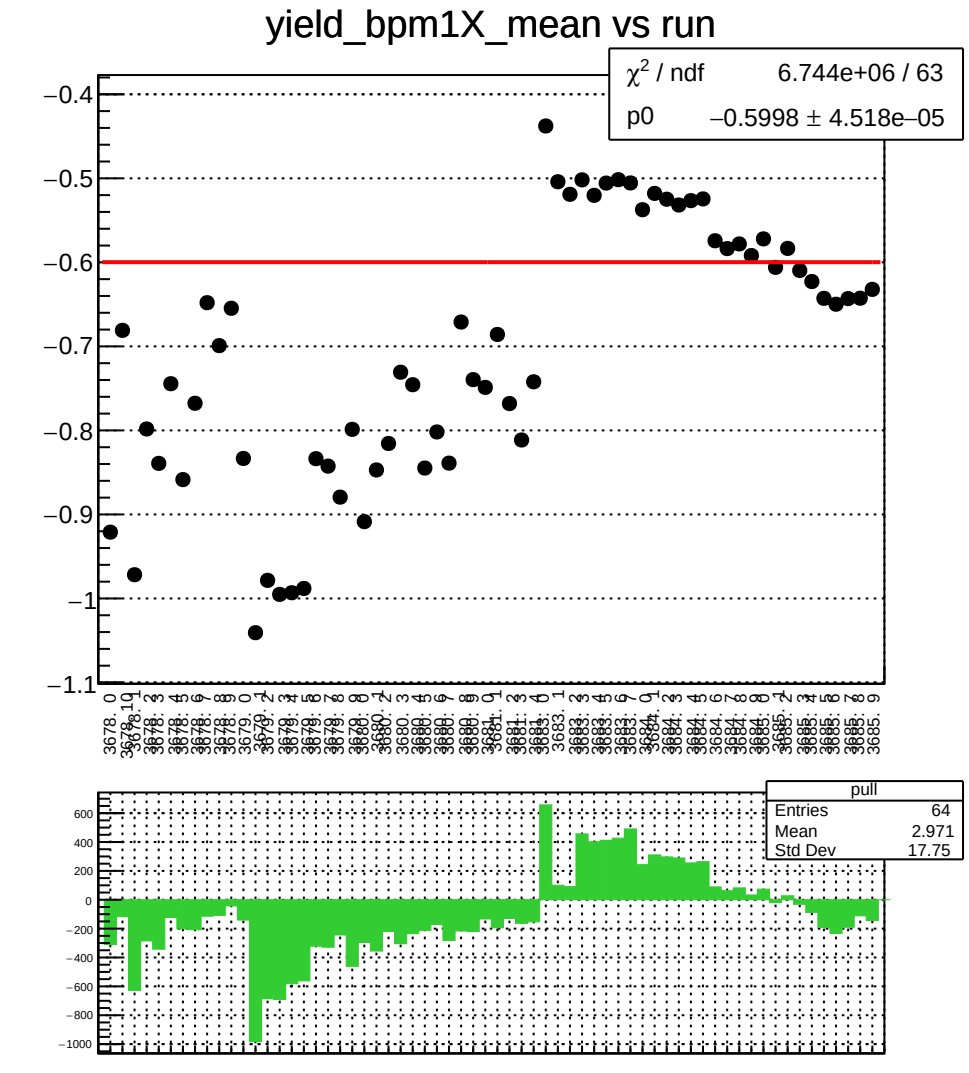

pull1D
Entries 64
Mean 1.178
Std Dev 4.095

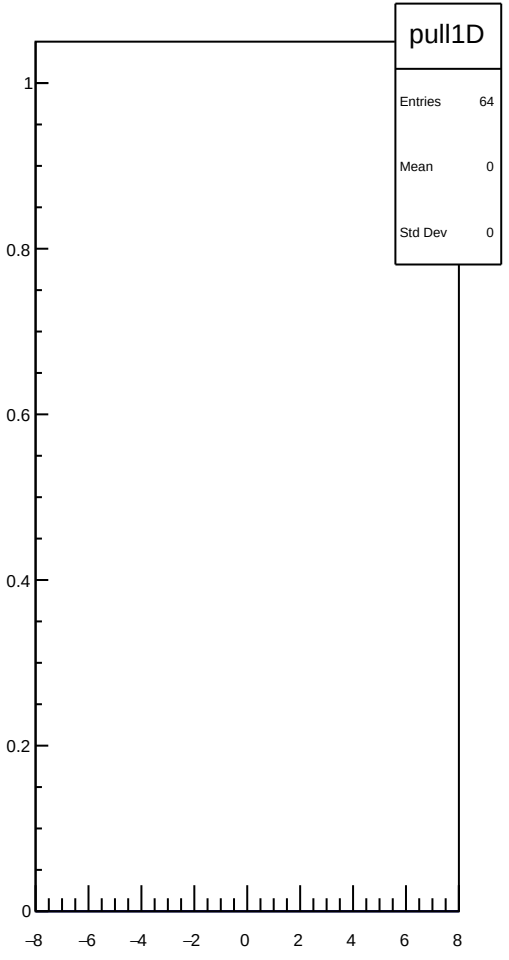

yield_bpm4ecX_rms vs run
χ² / ndf 9.563e+04 / 63
p0 0.01486 ± 1.406e–05
0.1
0.08
0.06
0.04
0.02

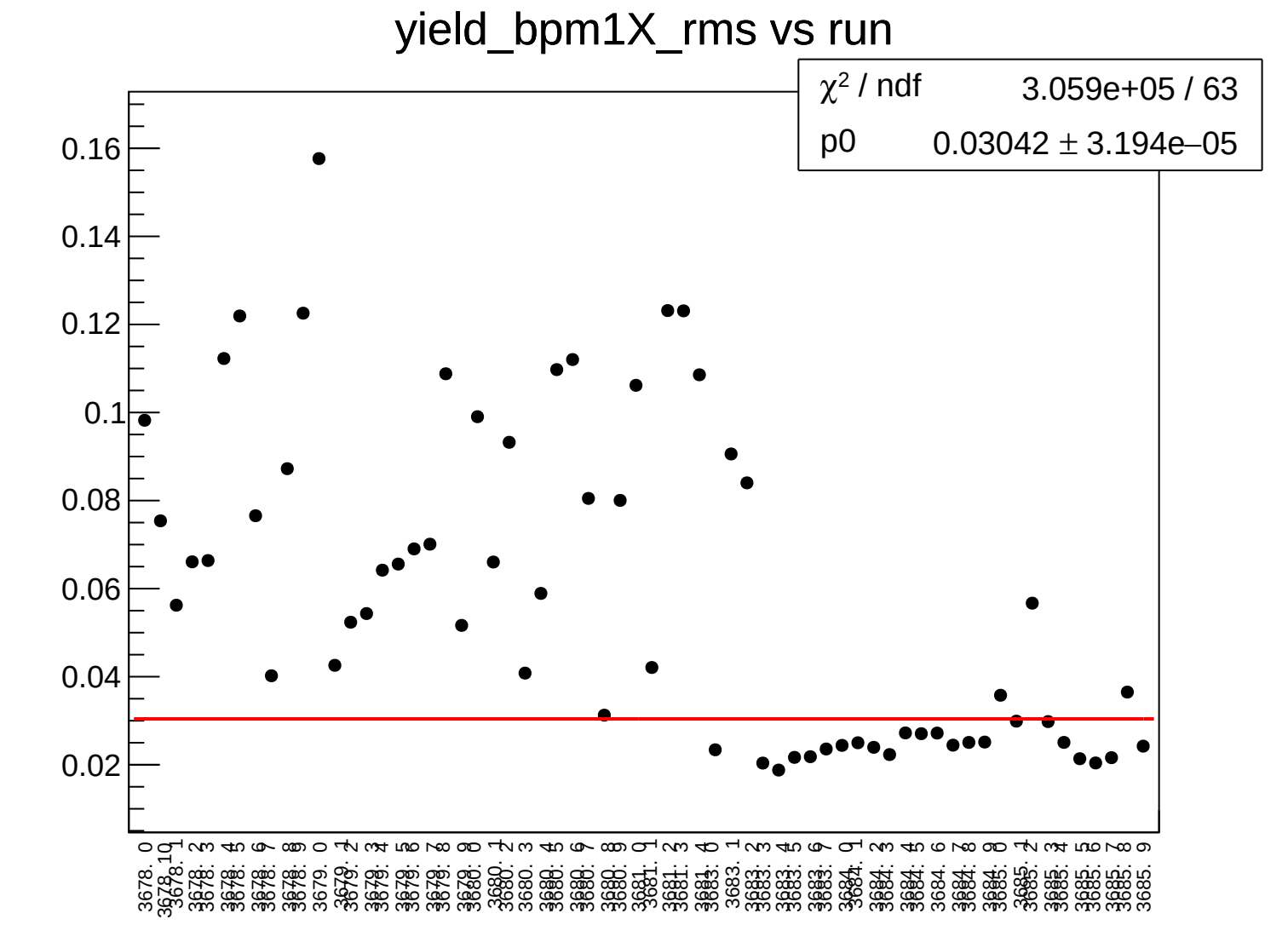

yield_bpm4ecY_mean vs run
χ² / ndf 1.206e+05 / 63
p0 1.616 ± 1.363e−05
pull
Entries 64
Mean 12.55
Std Dev 39.05

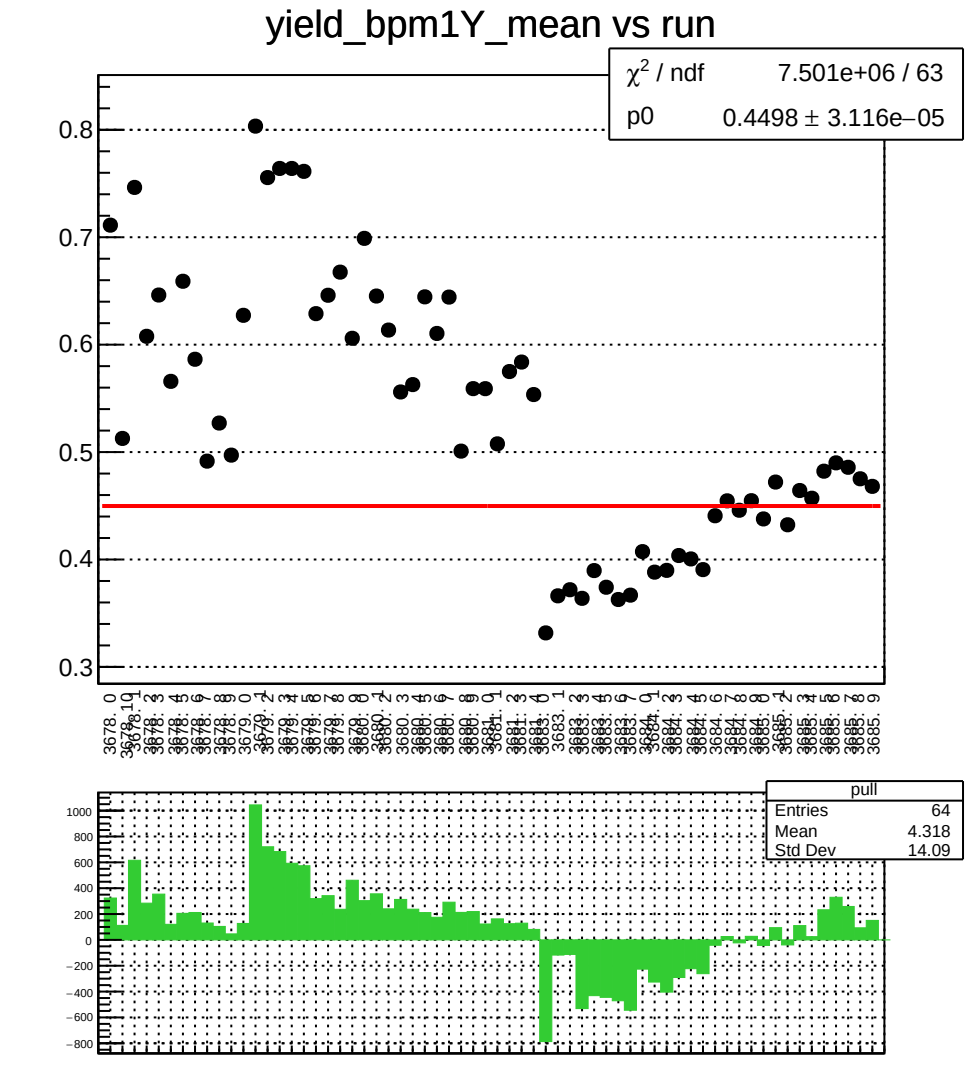

pull1D
Entries 64
Mean 0.4733
Std Dev 2.618

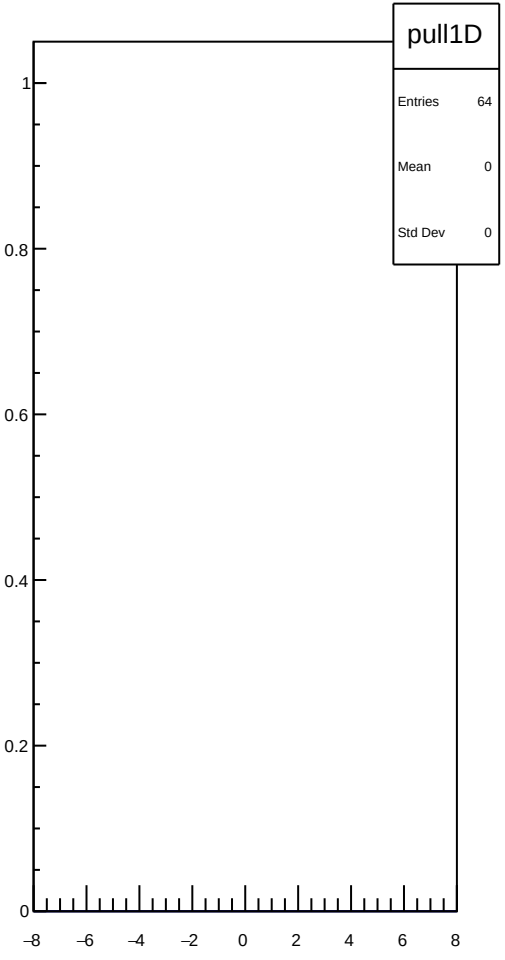

yield_bpm4ecY_rms vs run
χ² / ndf 8.521e+04 / 63
p0 0.01023 ± 9.636e–06
0.1
0.08
0.06
0.04
0.02

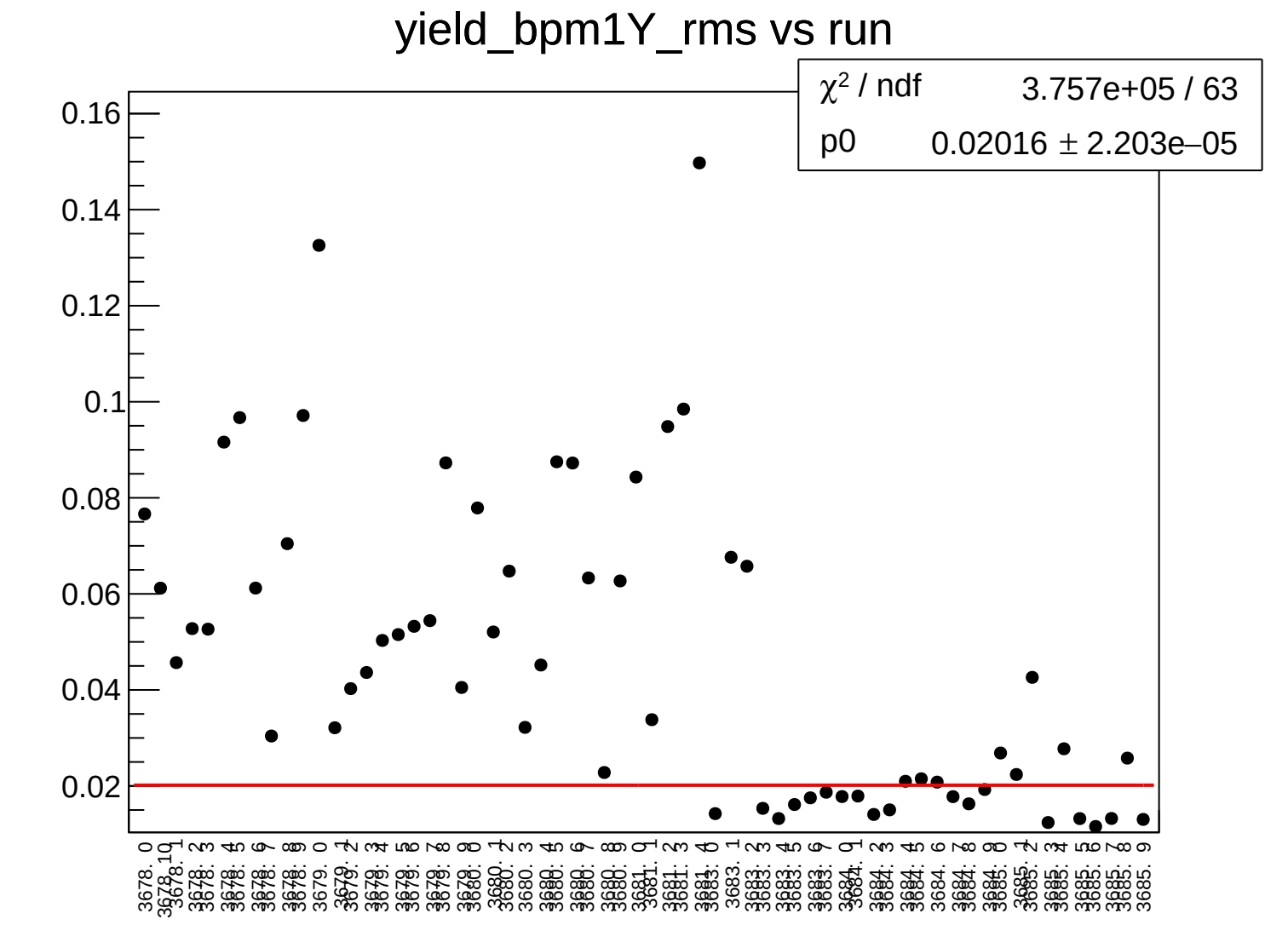

yield_bpm1X_mean vs run
χ² / ndf 6.744e+06 / 63
p0 −0.5998 ± 4.518e−05
pull
Entries 64
Mean 2.971
Std Dev 17.75

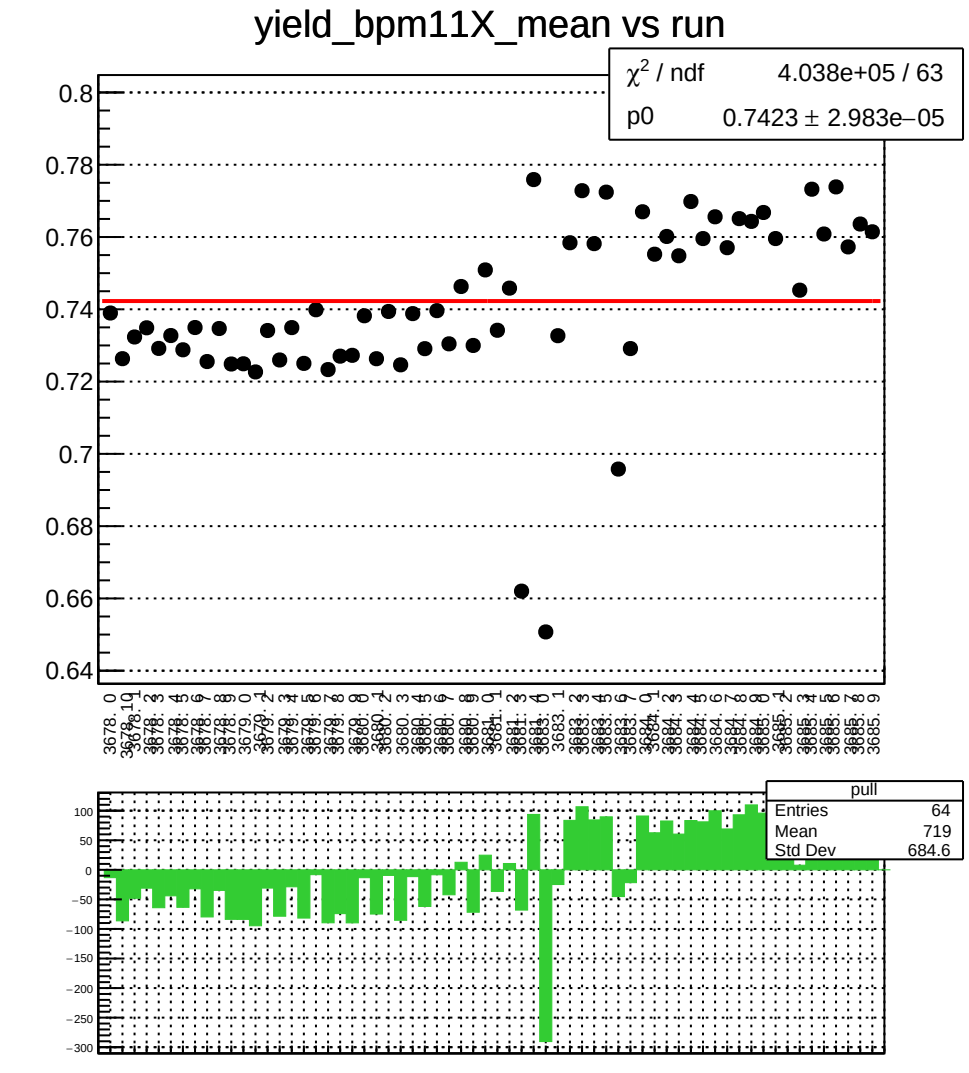

pull1D
Entries 64
Mean 0
Std Dev 0

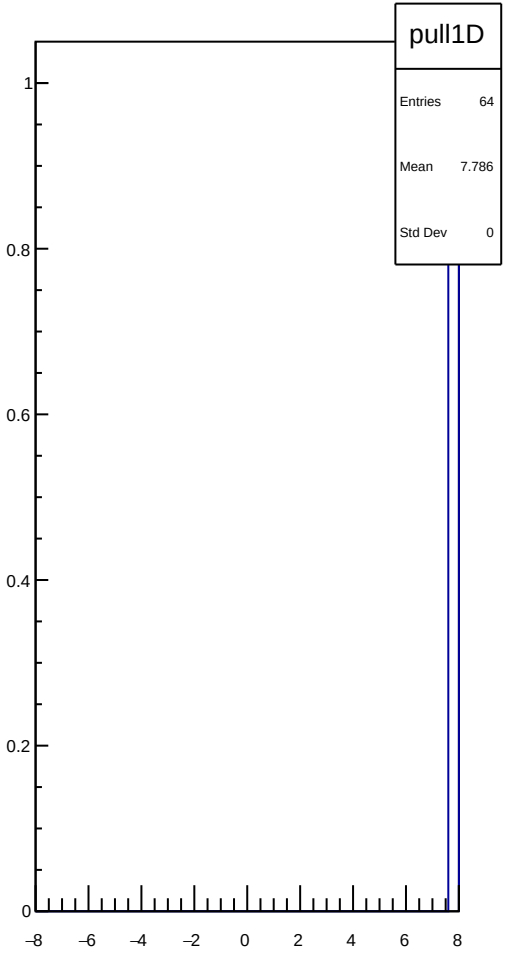

yield_bpm1X_rms vs run
χ² / ndf 3.059e+05 / 63
p0 0.03042 ± 3.194e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

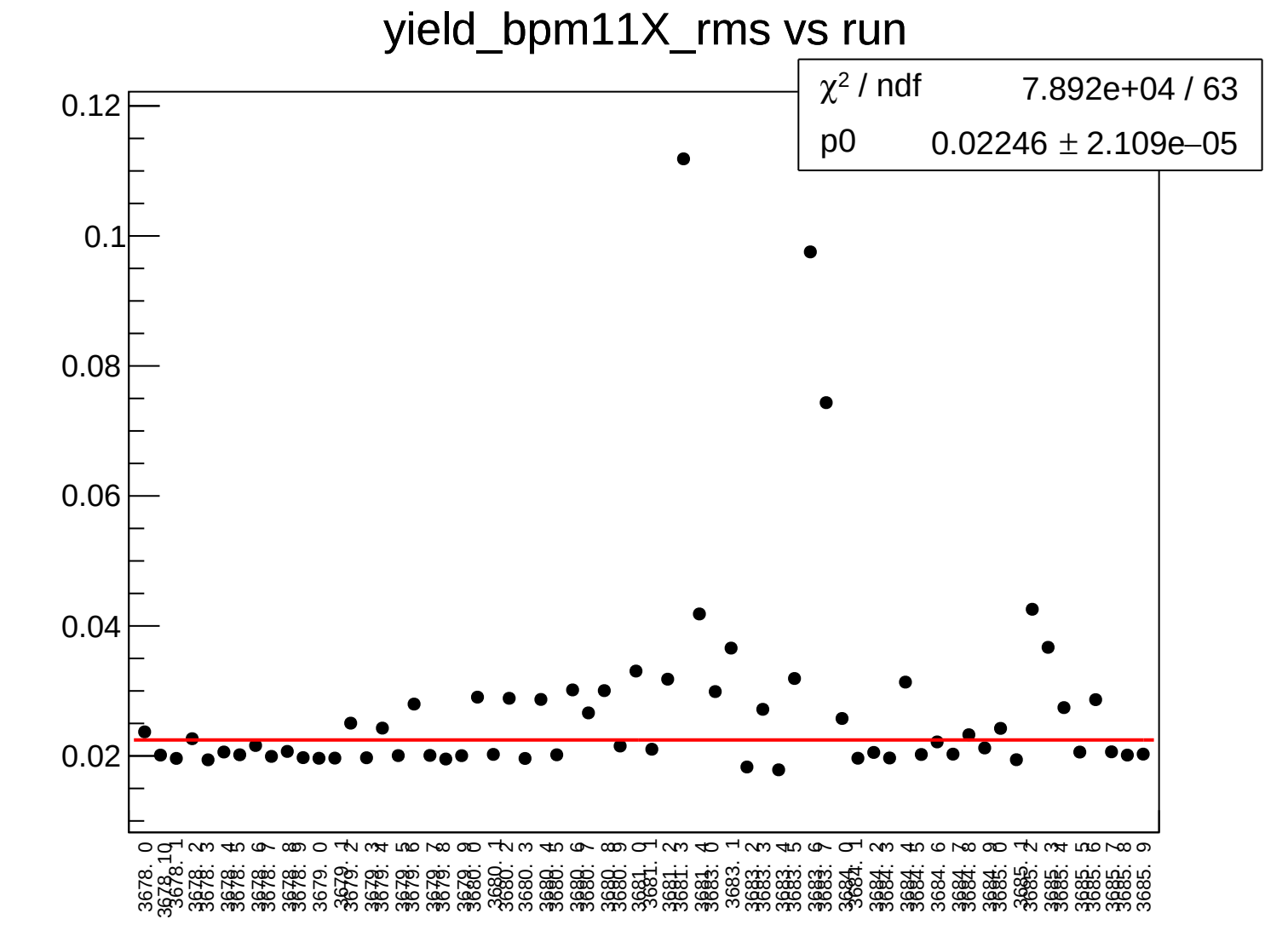

yield_bpm1Y_mean vs run
χ² / ndf 7.501e+06 / 63
p0 0.4498 ± 3.116e−05
pull
Entries 64
Mean 4.318
Std Dev 14.09

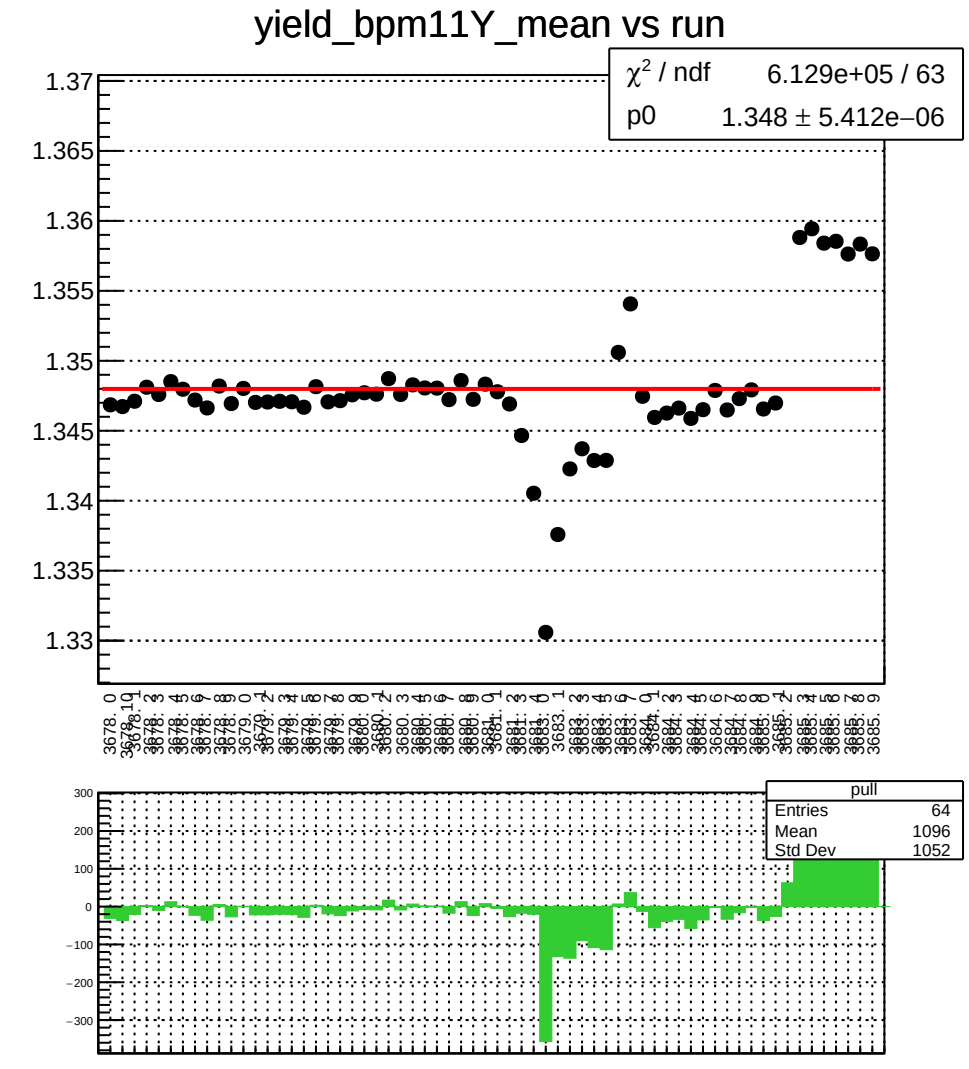

pull1D
Entries 64
Mean 0
Std Dev 0

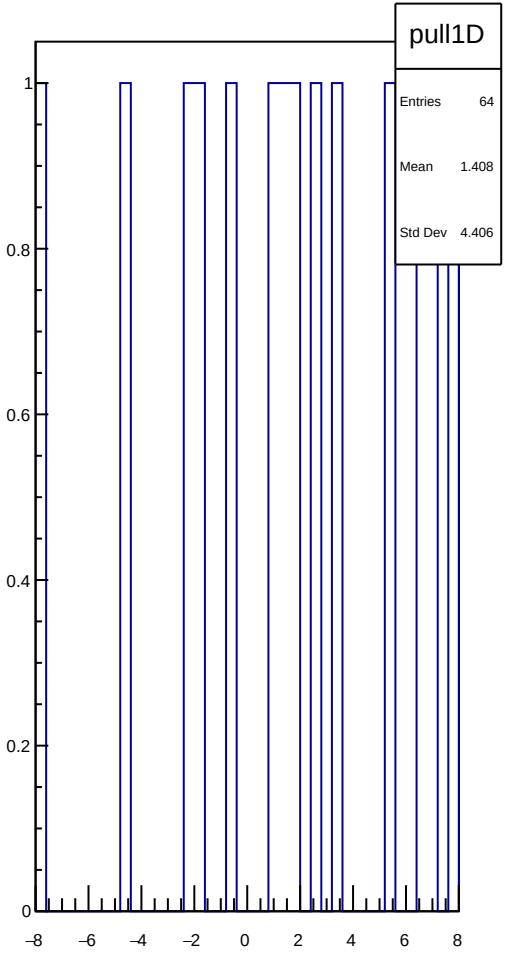

yield_bpm1Y_rms vs run
χ² / ndf 3.757e+05 / 63
p0 0.02016 ± 2.203e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

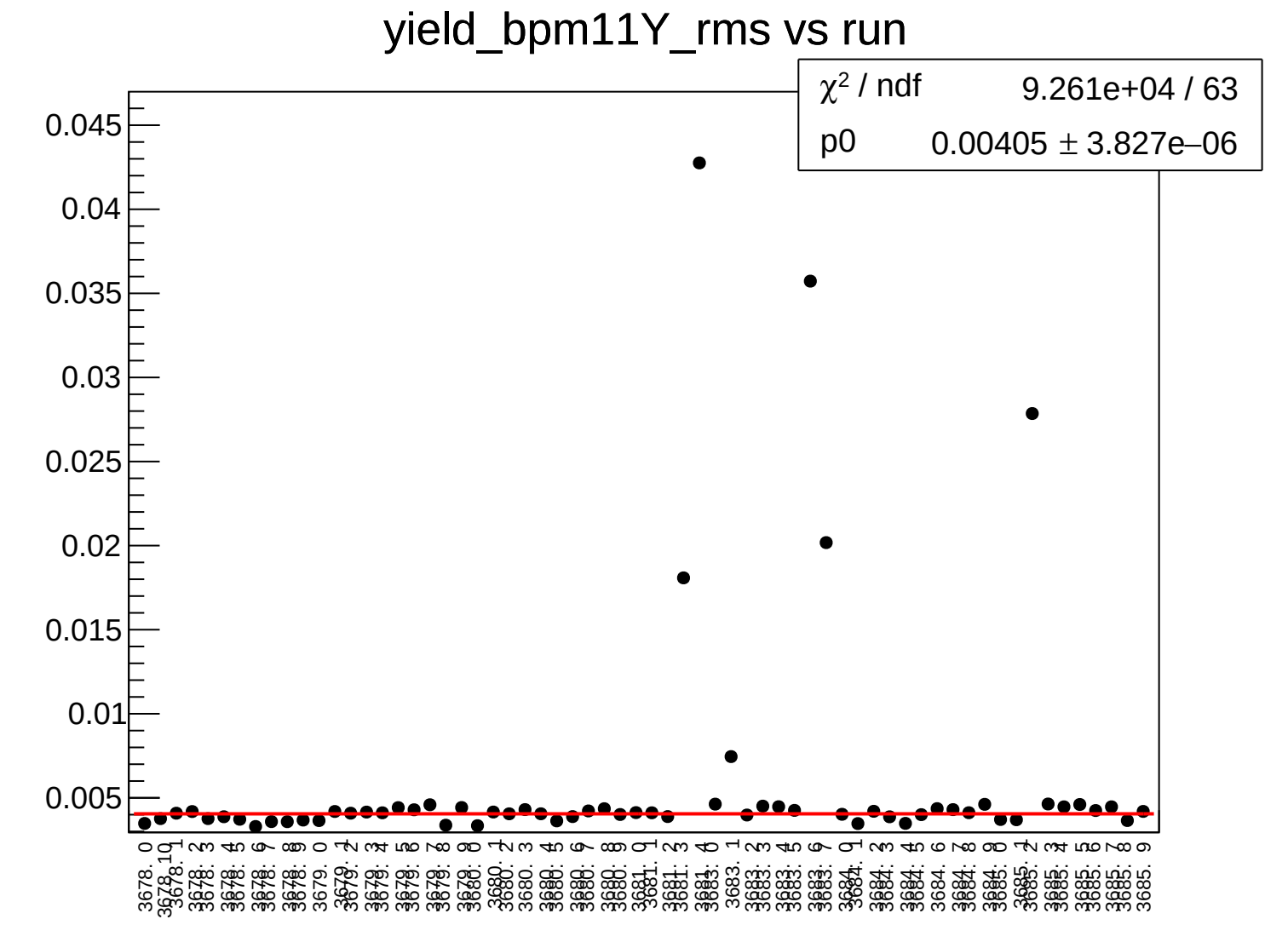

yield_bpm11X_mean vs run
χ² / ndf 4.038e+05 / 63
p0 0.7423 ± 2.983e−05
pull
Entries 64
Mean 719
Std Dev 684.6

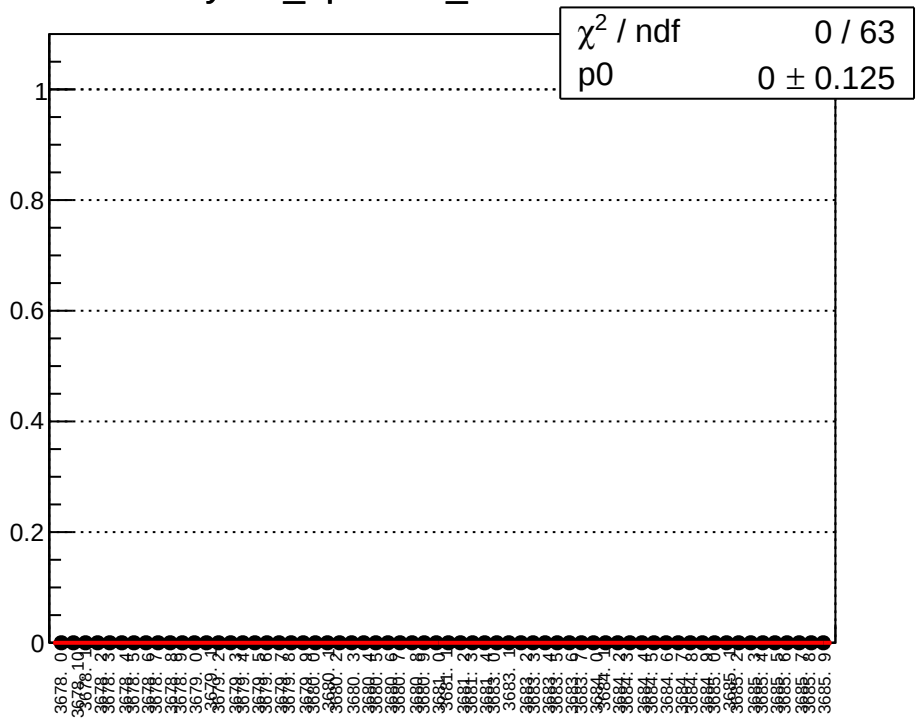

pull1D
Entries 64
Mean 7.786
Std Dev 0

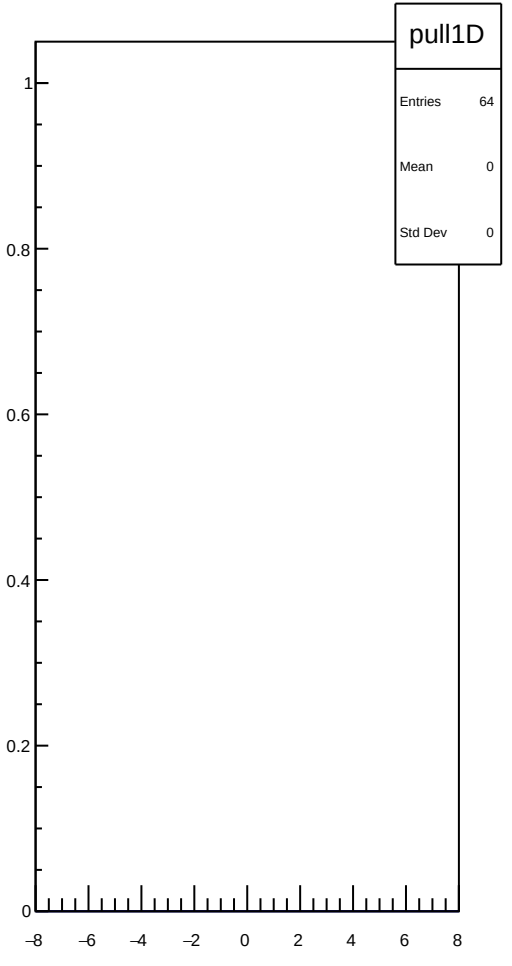

yield_bpm11X_rms vs run
χ² / ndf 7.892e+04 / 63
p0 0.02246 ± 2.109e–05
0.12
0.1
0.08
0.06
0.04
0.02

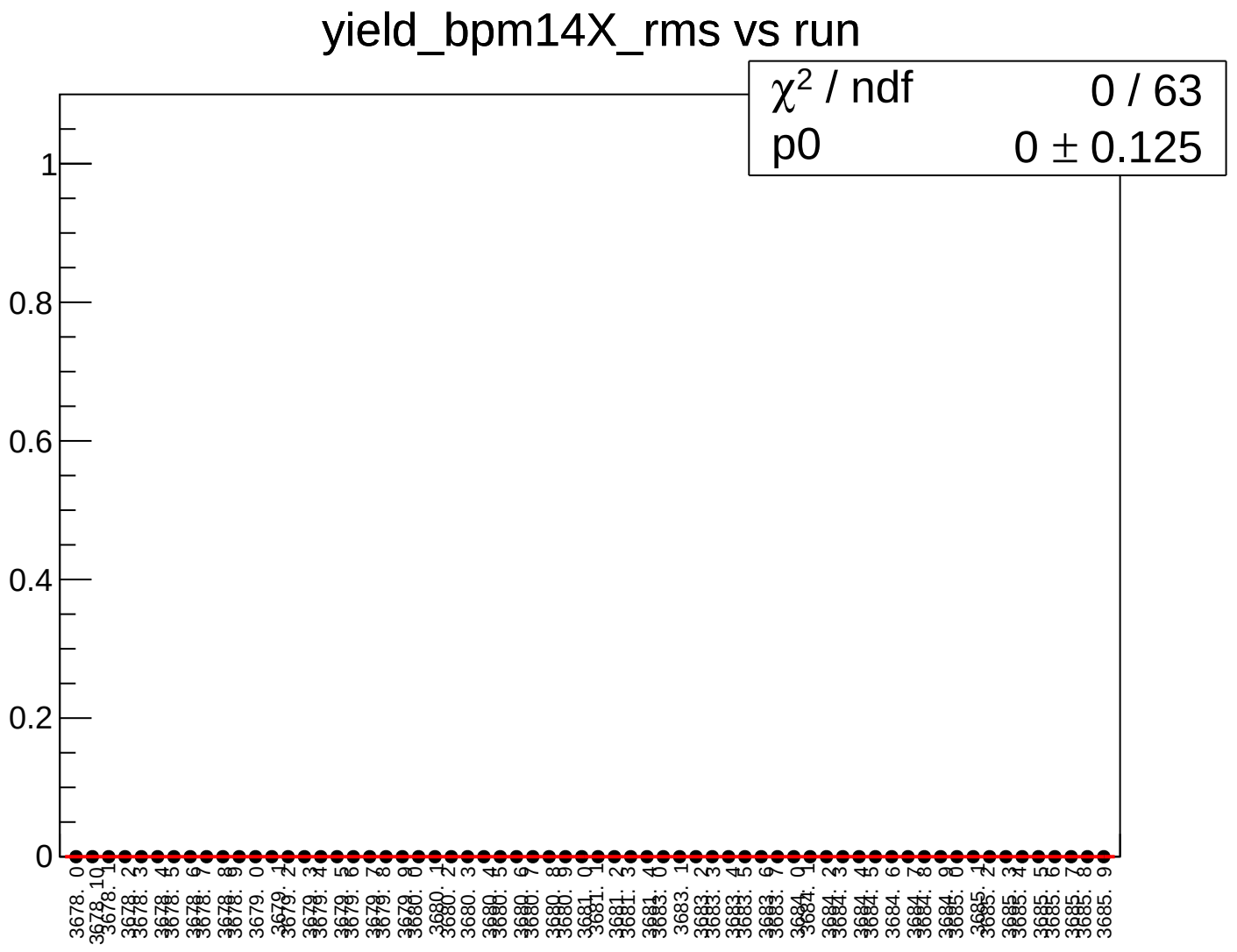

yield_bpm11Y_mean vs run
χ² / ndf 6.129e+05 / 63
p0 1.348 ± 5.412e−06
pull
Entries 64
Mean 1096
Std Dev 1052

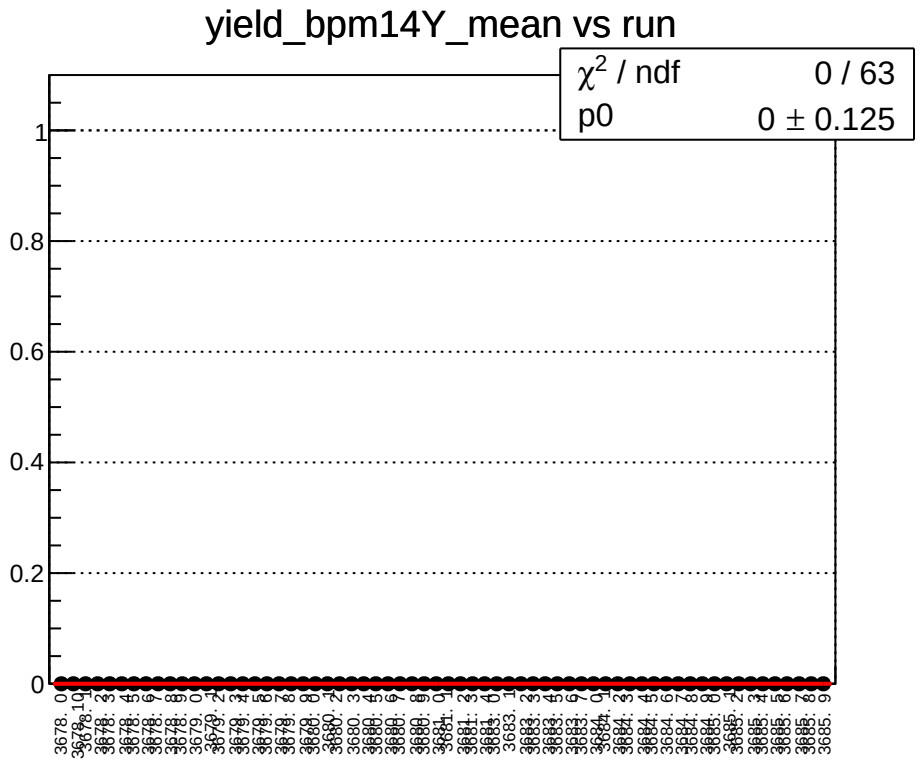

pull1D
Entries 64
Mean 1.408
Std Dev 4.406

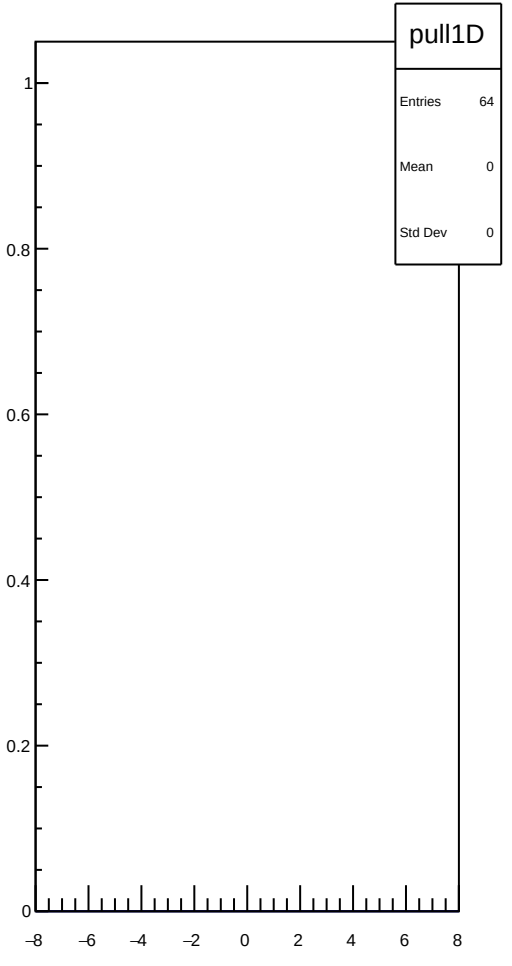

yield_bpm11Y_rms vs run
χ² / ndf 9.261e+04 / 63
p0 0.00405 ± 3.827e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

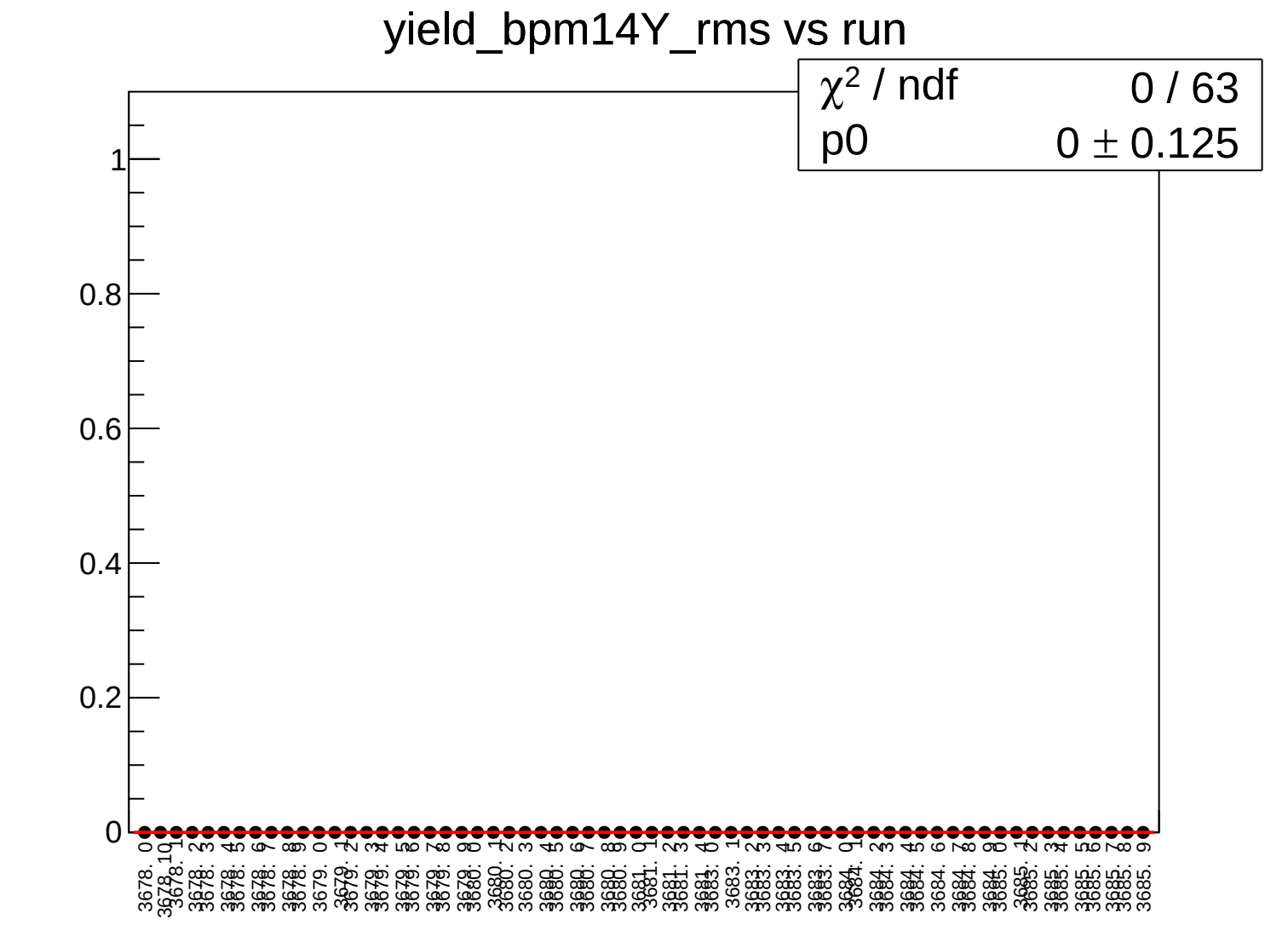

yield_bpm14X_mean vs run
$\chi^2$ / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

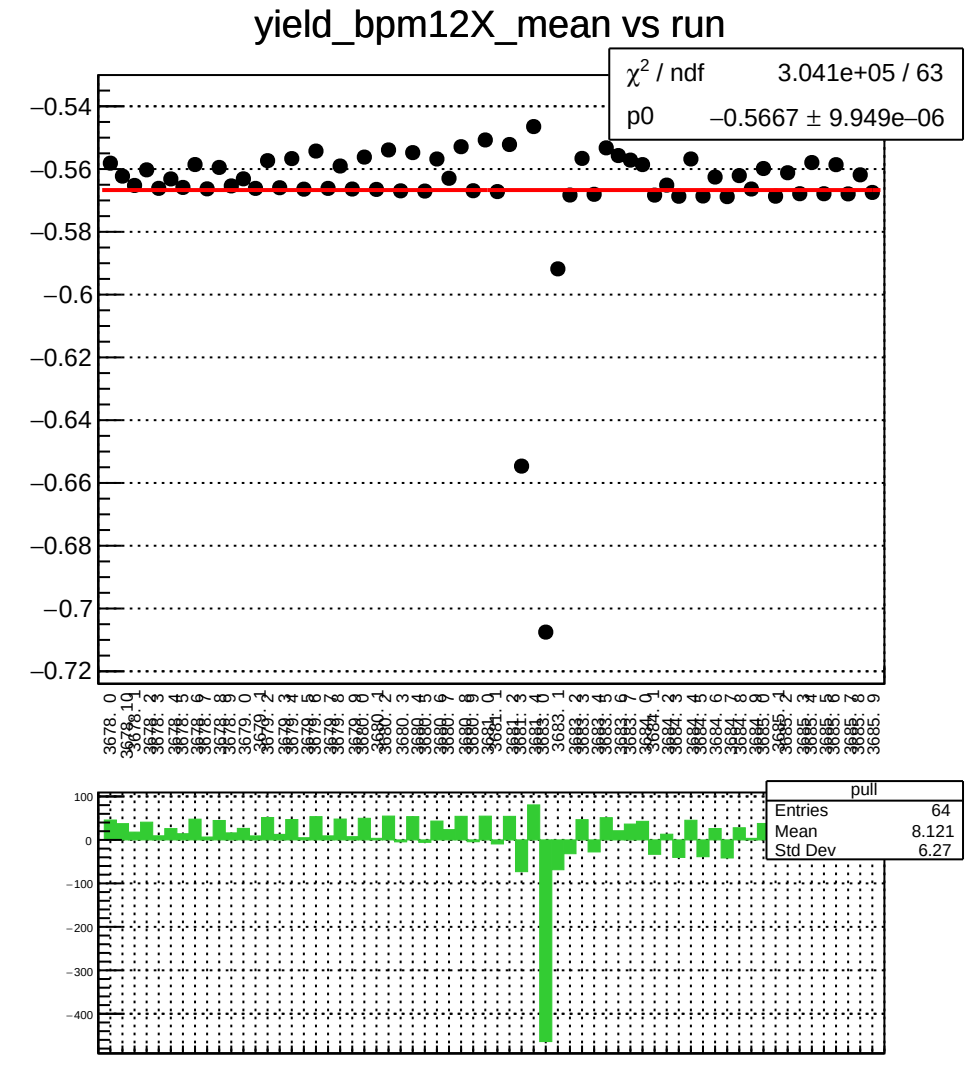

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

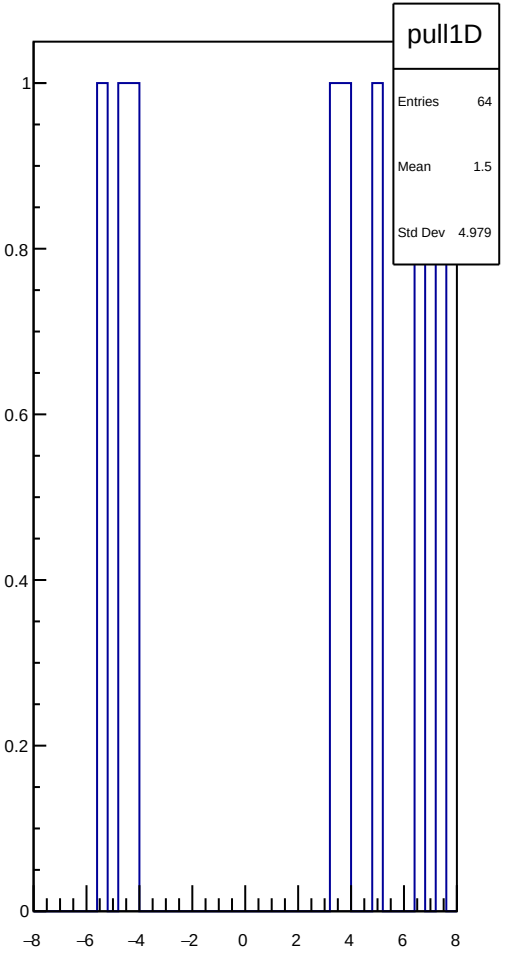

yield_bpm14X_rms vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

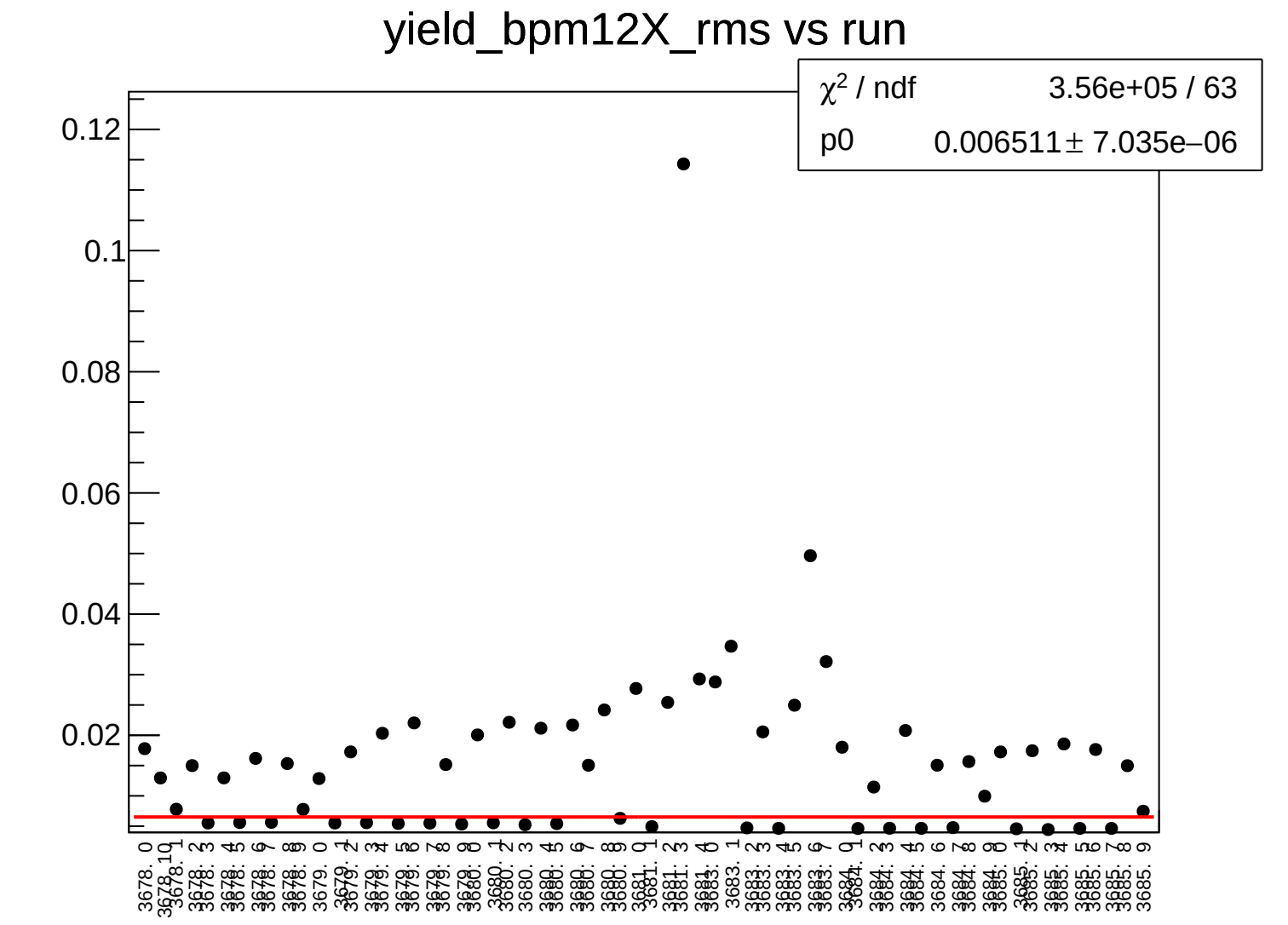

yield_bpm14Y_mean vs run
$\chi^2$ / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

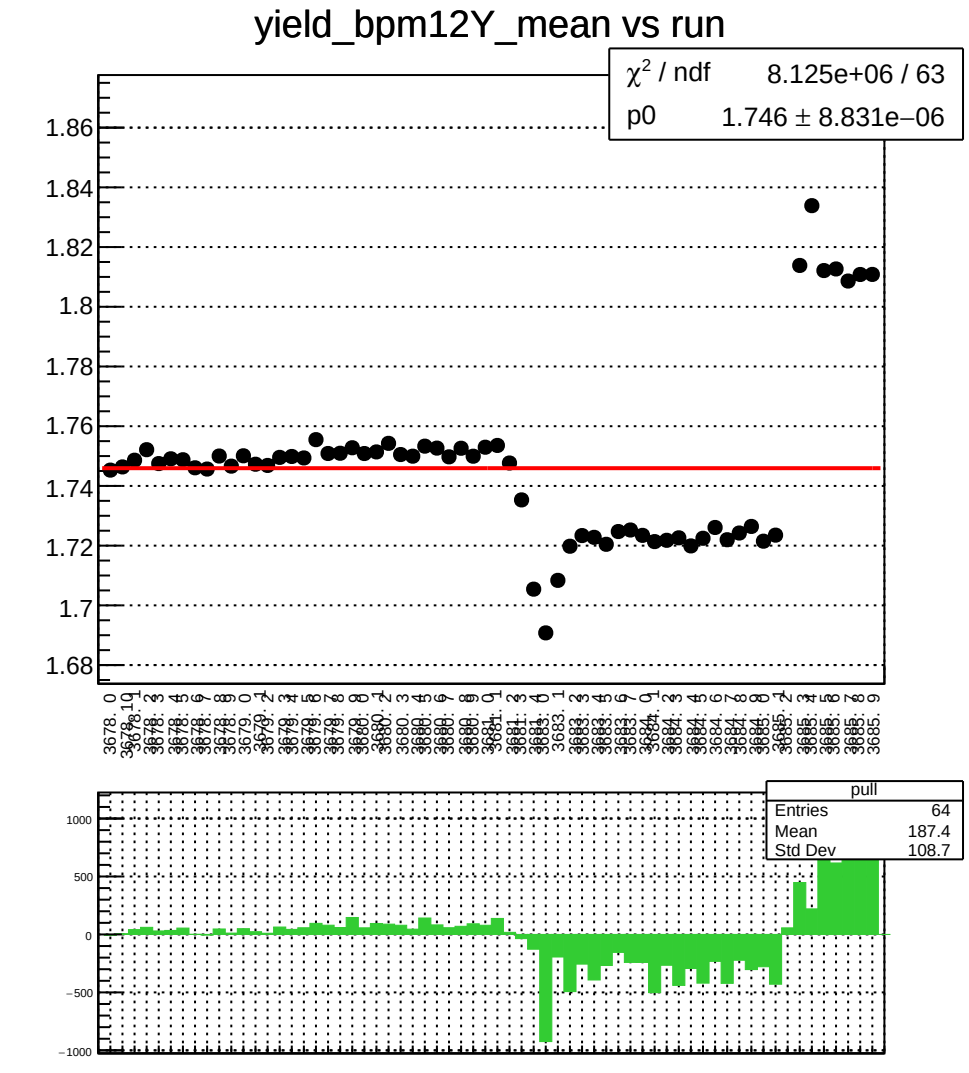

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

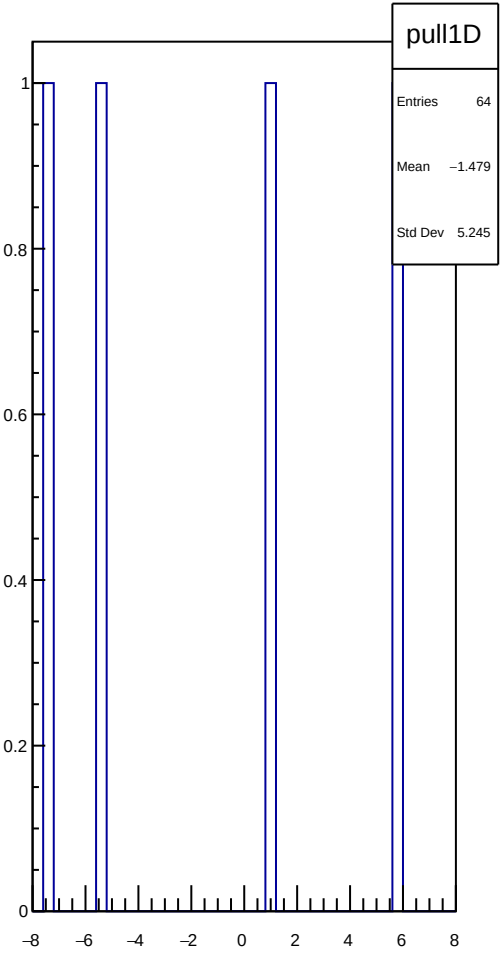

yield_bpm14Y_rms vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

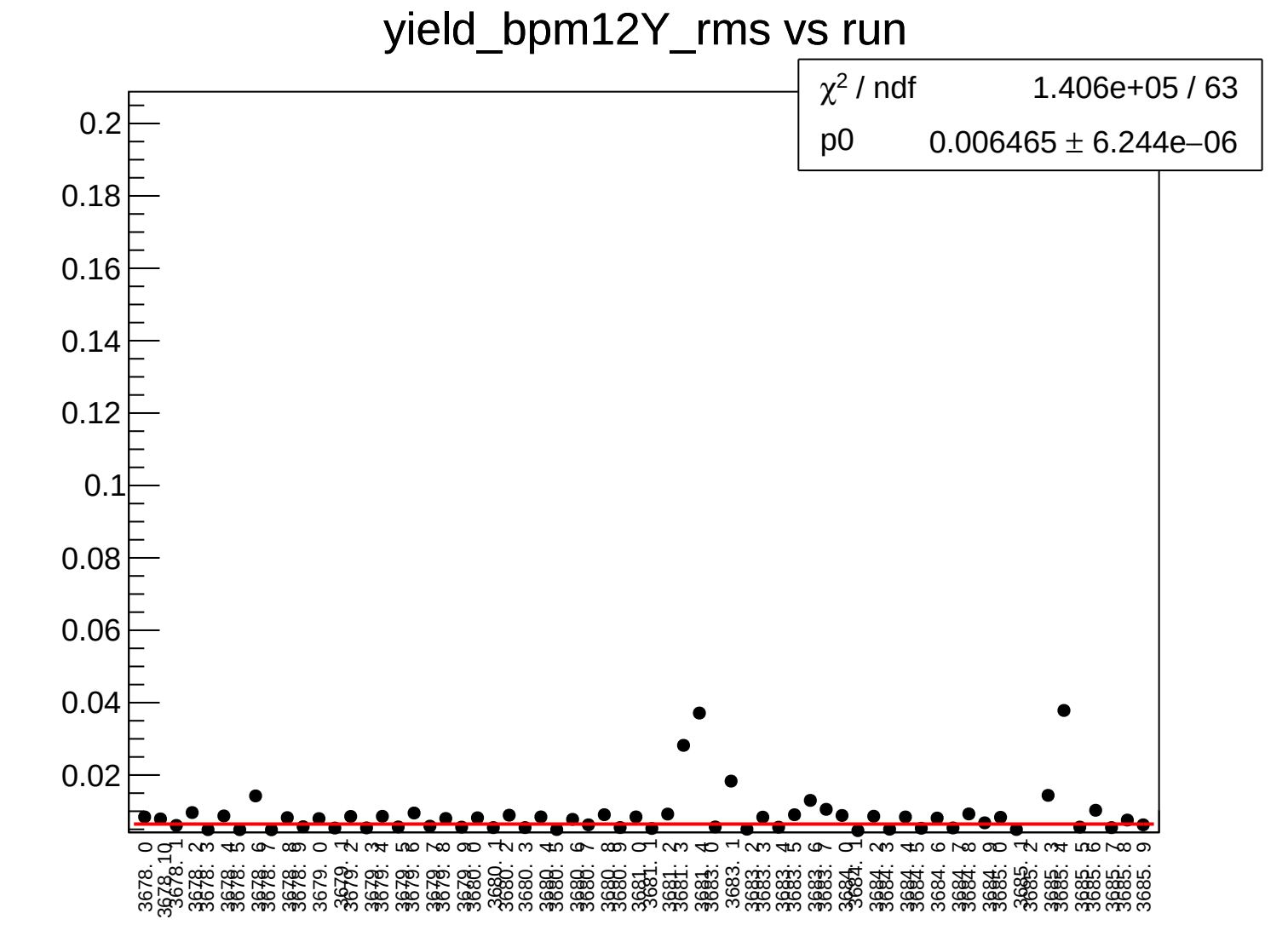

yield_bpm12X_mean vs run
χ² / ndf 3.041e+05 / 63
p0 −0.5667 ± 9.949e−06
pull
Entries 64
Mean 8.121
Std Dev 6.27

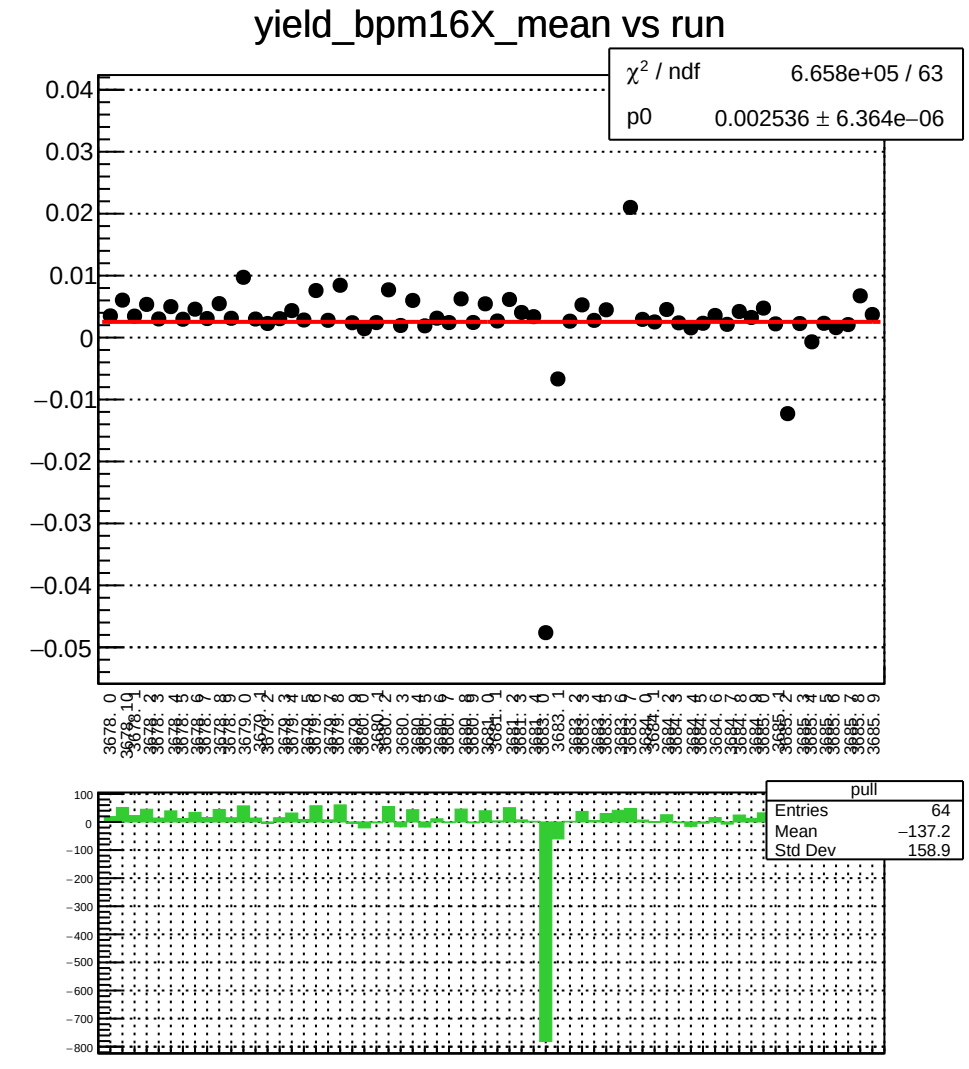

pull1D
Entries 64
Mean 1.5
Std Dev 4.979

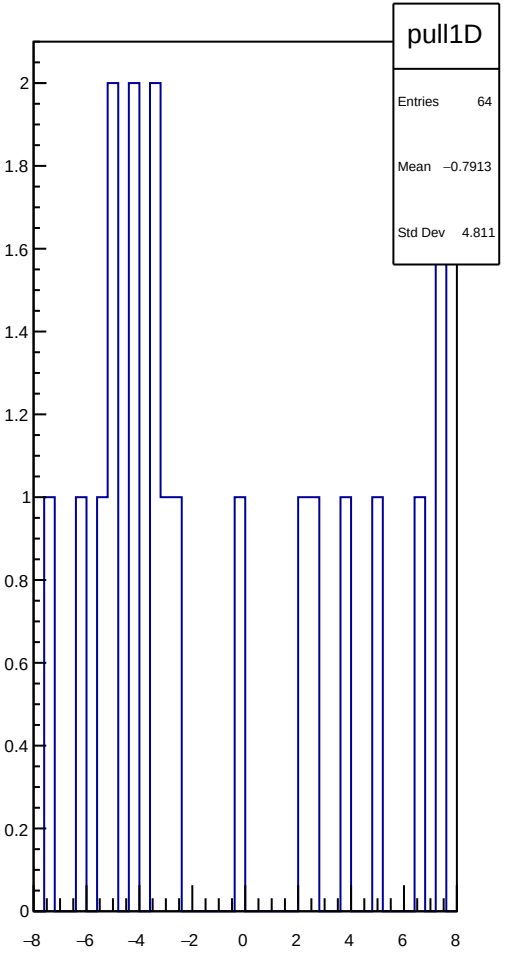

yield_bpm12X_rms vs run
χ² / ndf 3.56e+05 / 63
p0 0.006511 ± 7.035e−06
0.12
0.1
0.08
0.06
0.04
0.02

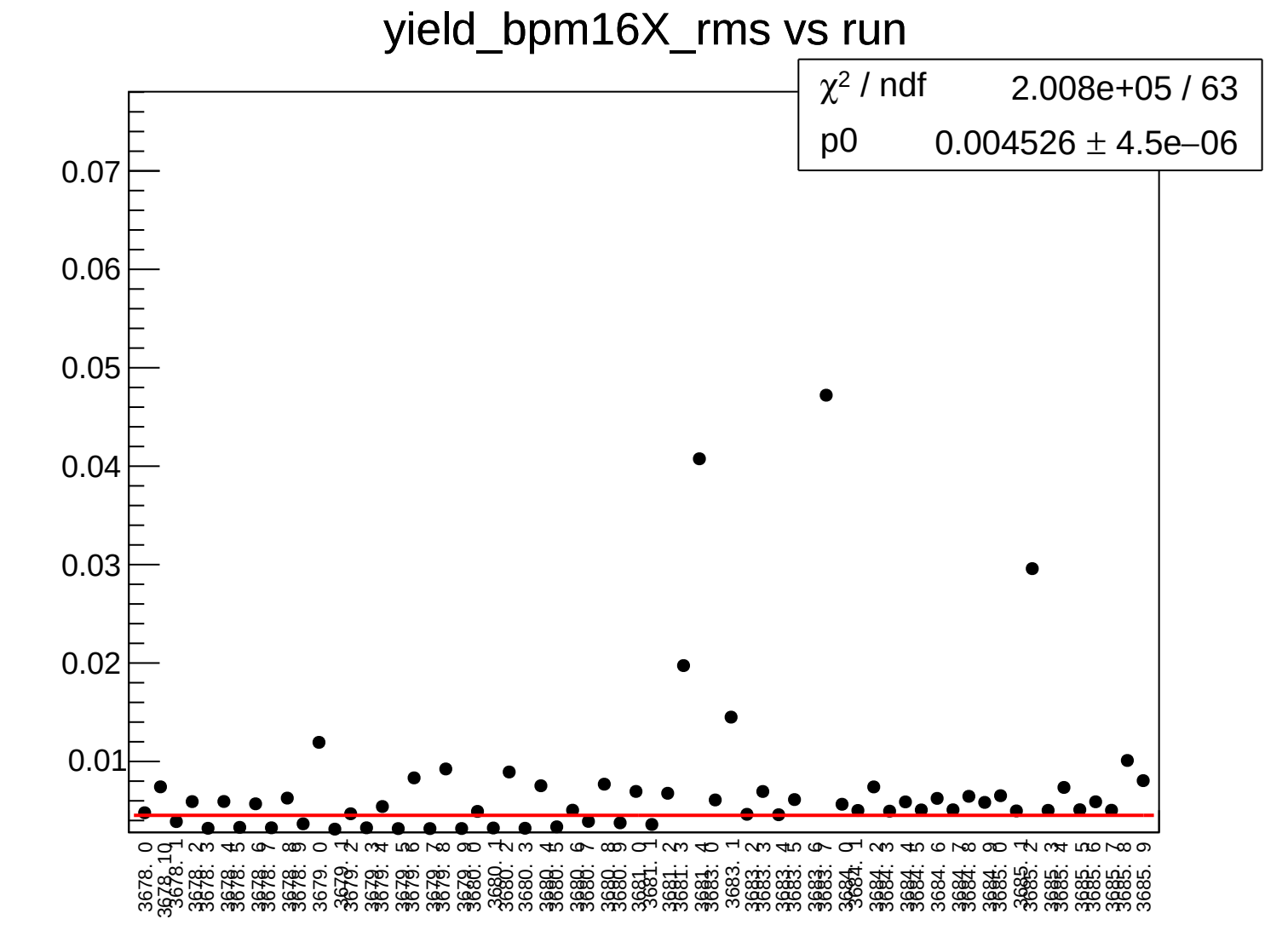

yield_bpm12Y_mean vs run
χ² / ndf 8.125e+06 / 63
p0 1.746 ± 8.831e−06
pull
Entries 64
Mean 187.4
Std Dev 108.7

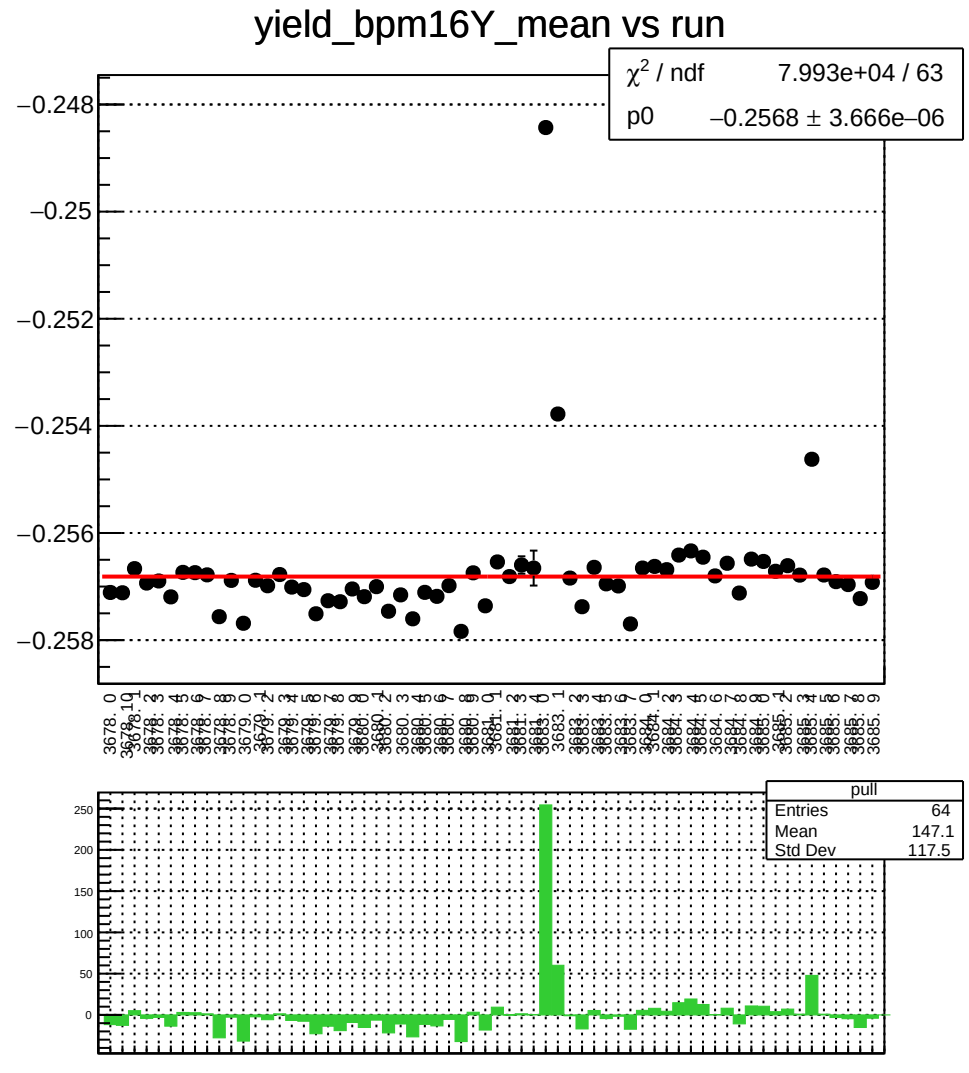

pull1D
Entries 64
Mean −1.479
Std Dev 5.245

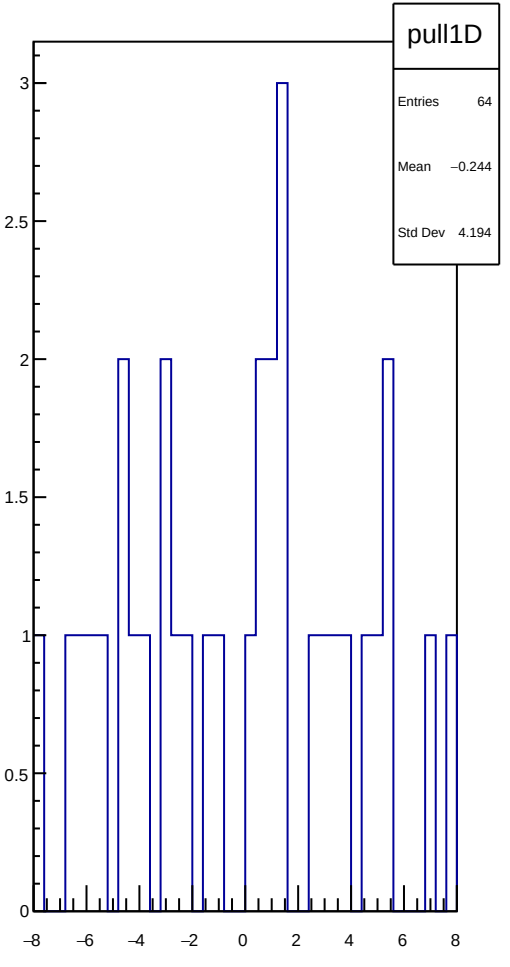

yield_bpm12Y_rms vs run
$\chi^2$ / ndf 1.406e+05 / 63
p0 0.006465 ± 6.244e−06
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

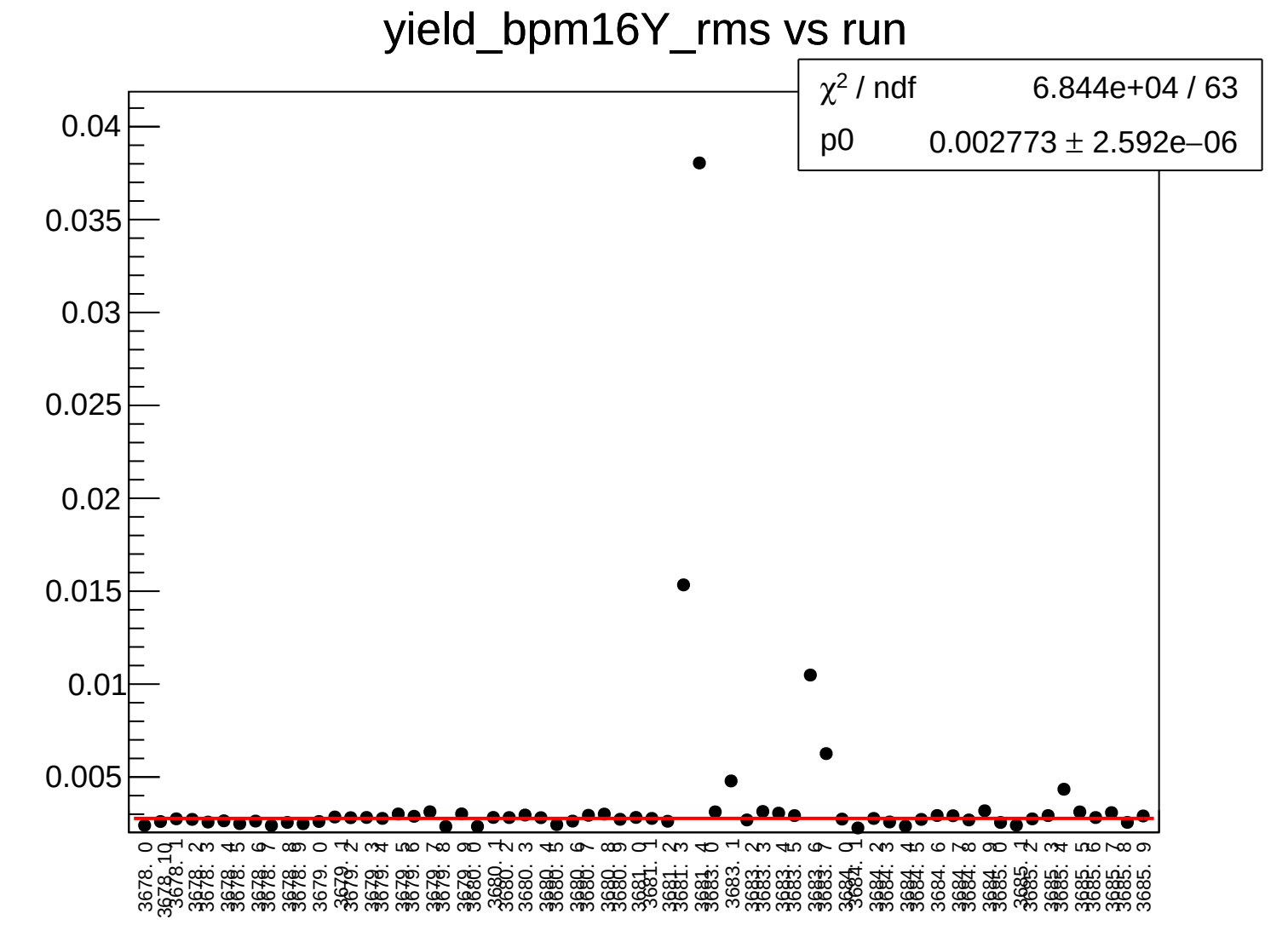

yield_bpm16X_mean vs run
χ² / ndf 6.658e+05 / 63
p0 0.002536 ± 6.364e−06
pull
Entries 64
Mean −137.2
Std Dev 158.9

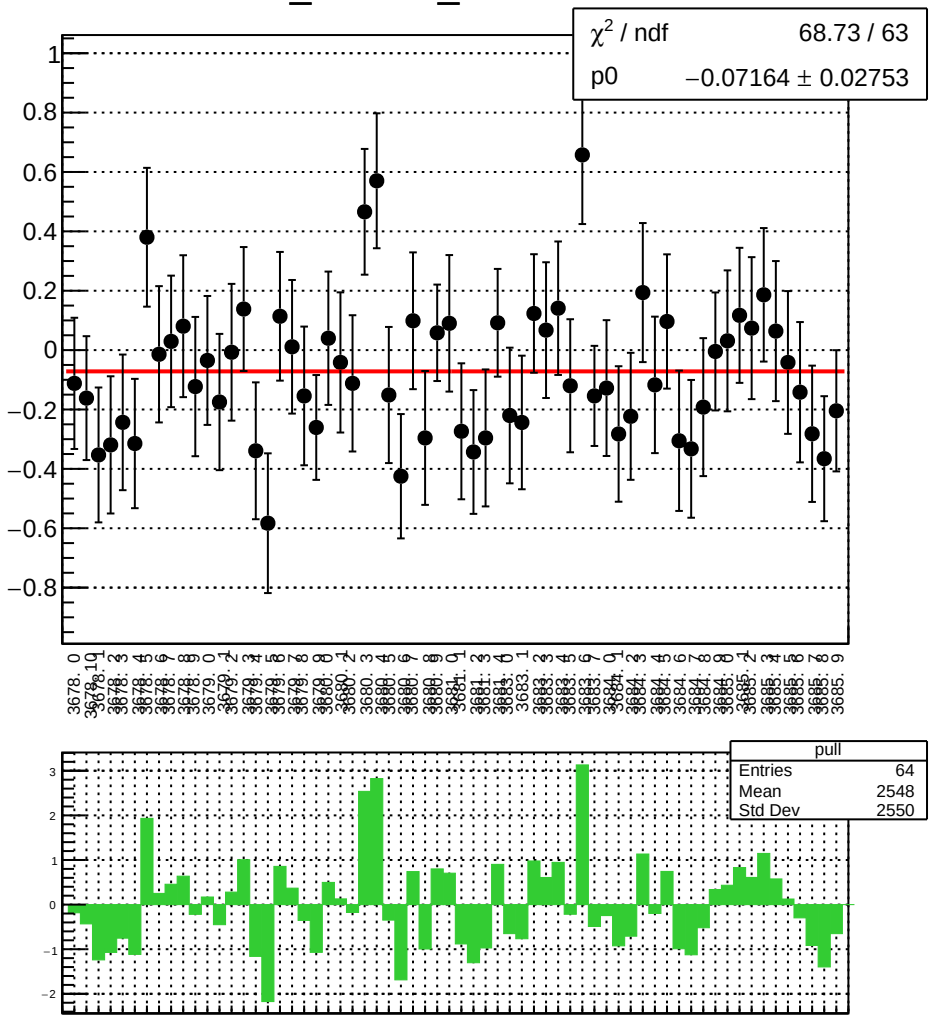

pull1D
Entries 64
Mean −0.7913
Std Dev 4.811

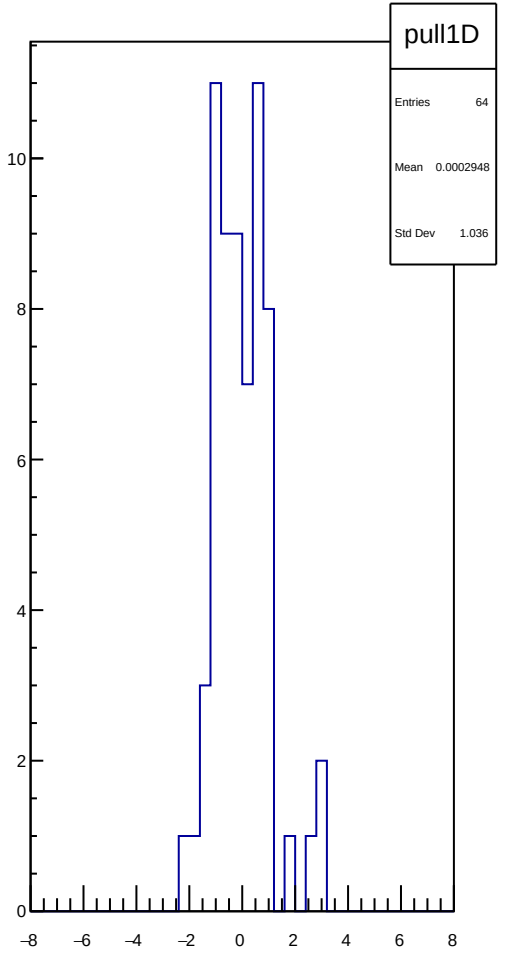

yield_bpm16X_rms vs run
χ² / ndf 2.008e+05 / 63
p0 0.004526 ± 4.5e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

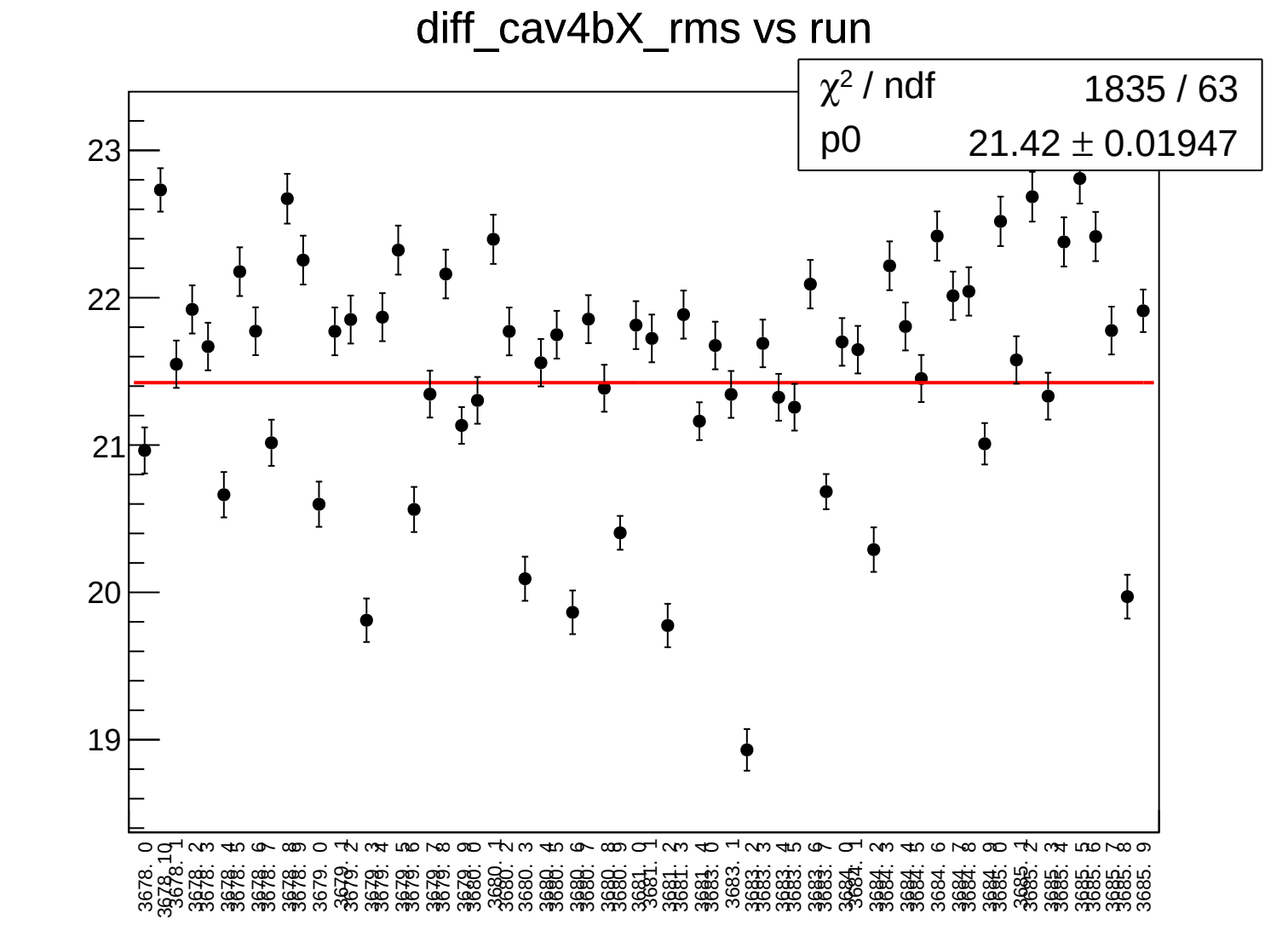

yield_bpm16Y_mean vs run
χ² / ndf 7.993e+04 / 63
p0 −0.2568 ± 3.666e−06
−0.248
−0.25
−0.252
−0.254
−0.256
−0.258
pull
Entries 64
Mean 147.1
Std Dev 117.5
250
200
150
100
50
0

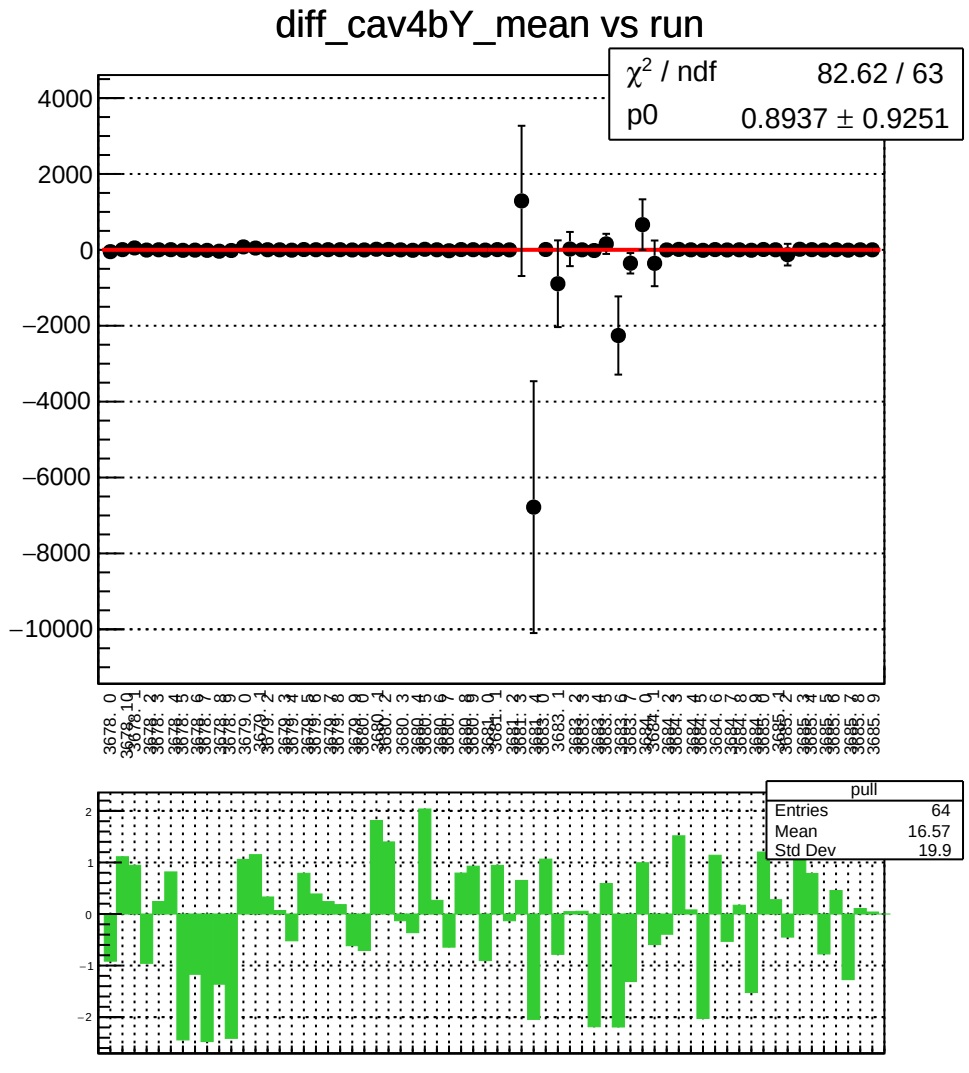

pull1D
Entries 64
Mean −0.244
Std Dev 4.194
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

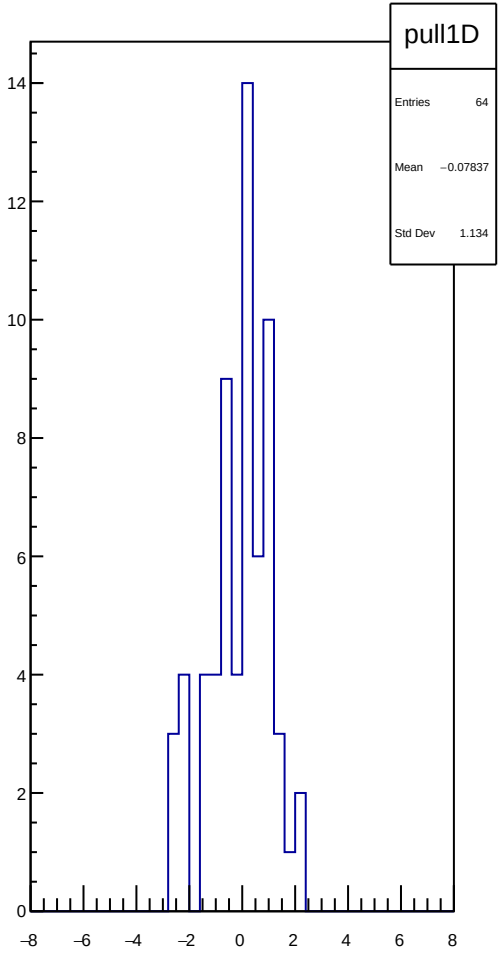

yield_bpm16Y_rms vs run
χ² / ndf 6.844e+04 / 63
p0 0.002773 ± 2.592e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

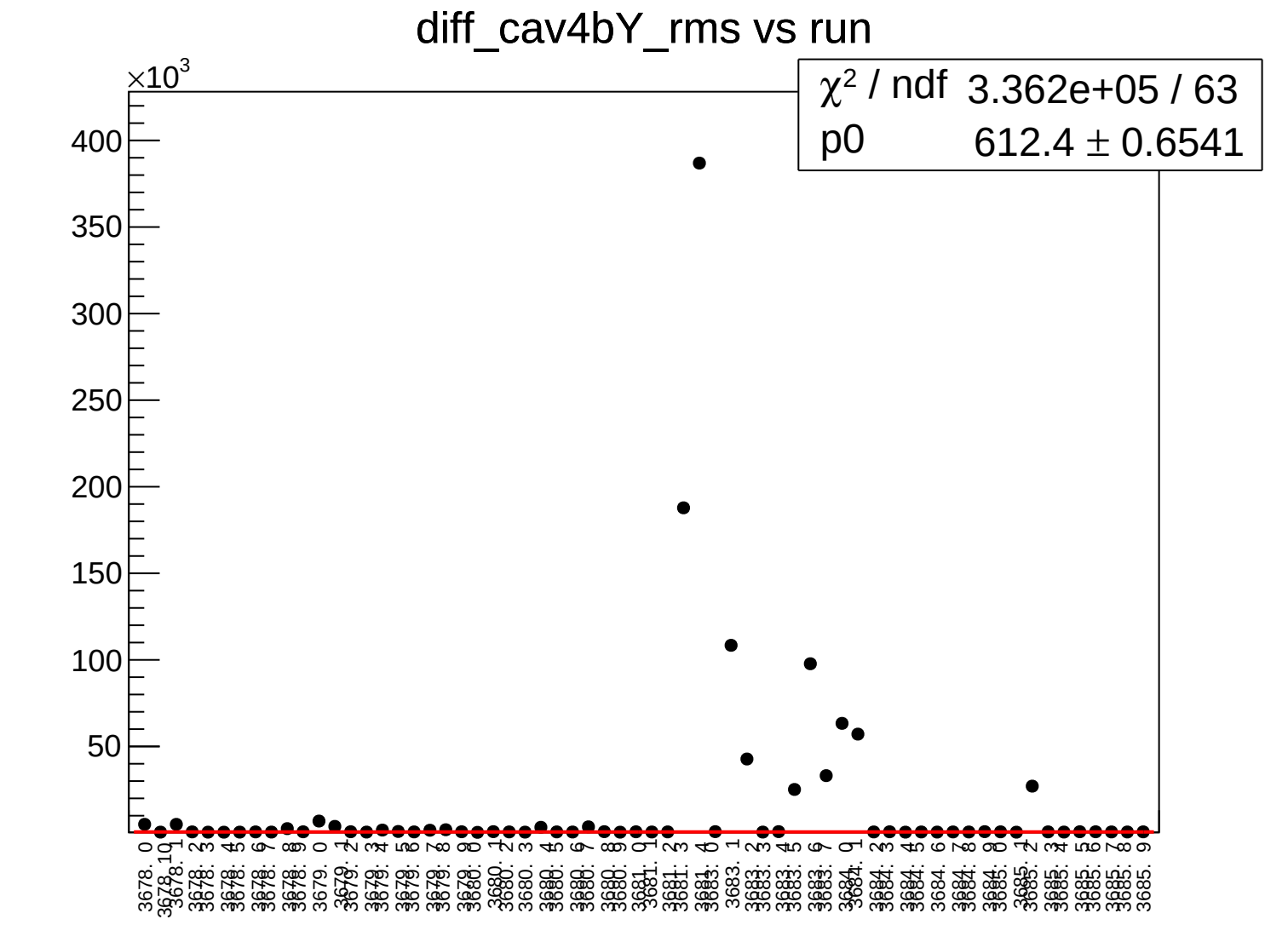

diff_cav4bX_mean vs run
χ² / ndf 68.73 / 63
p0 −0.07164 ± 0.02753
pull
Entries 64
Mean 2548
Std Dev 2550

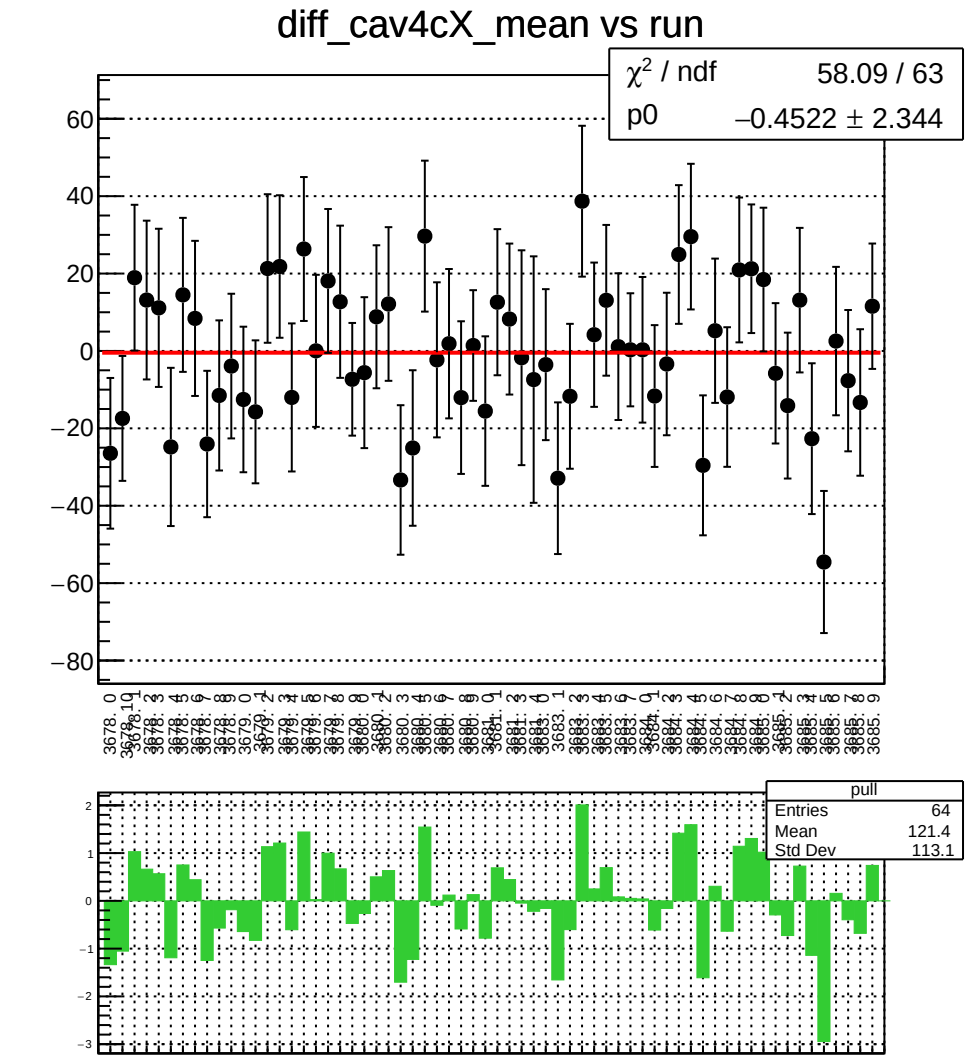

pull1D
Entries 64
Mean 0.0002948
Std Dev 1.036

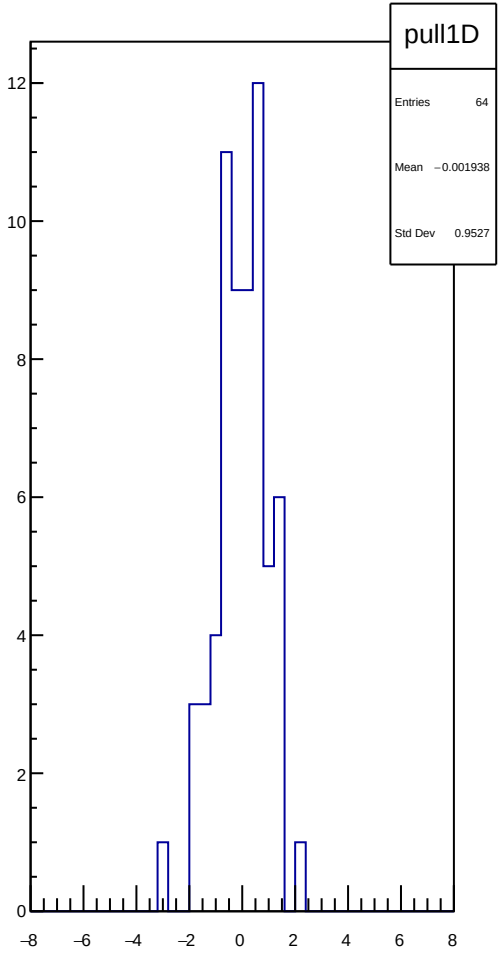

diff_cav4bX_rms vs run
χ² / ndf 1835 / 63
p0 21.42 ± 0.01947
23
22
21
20
19

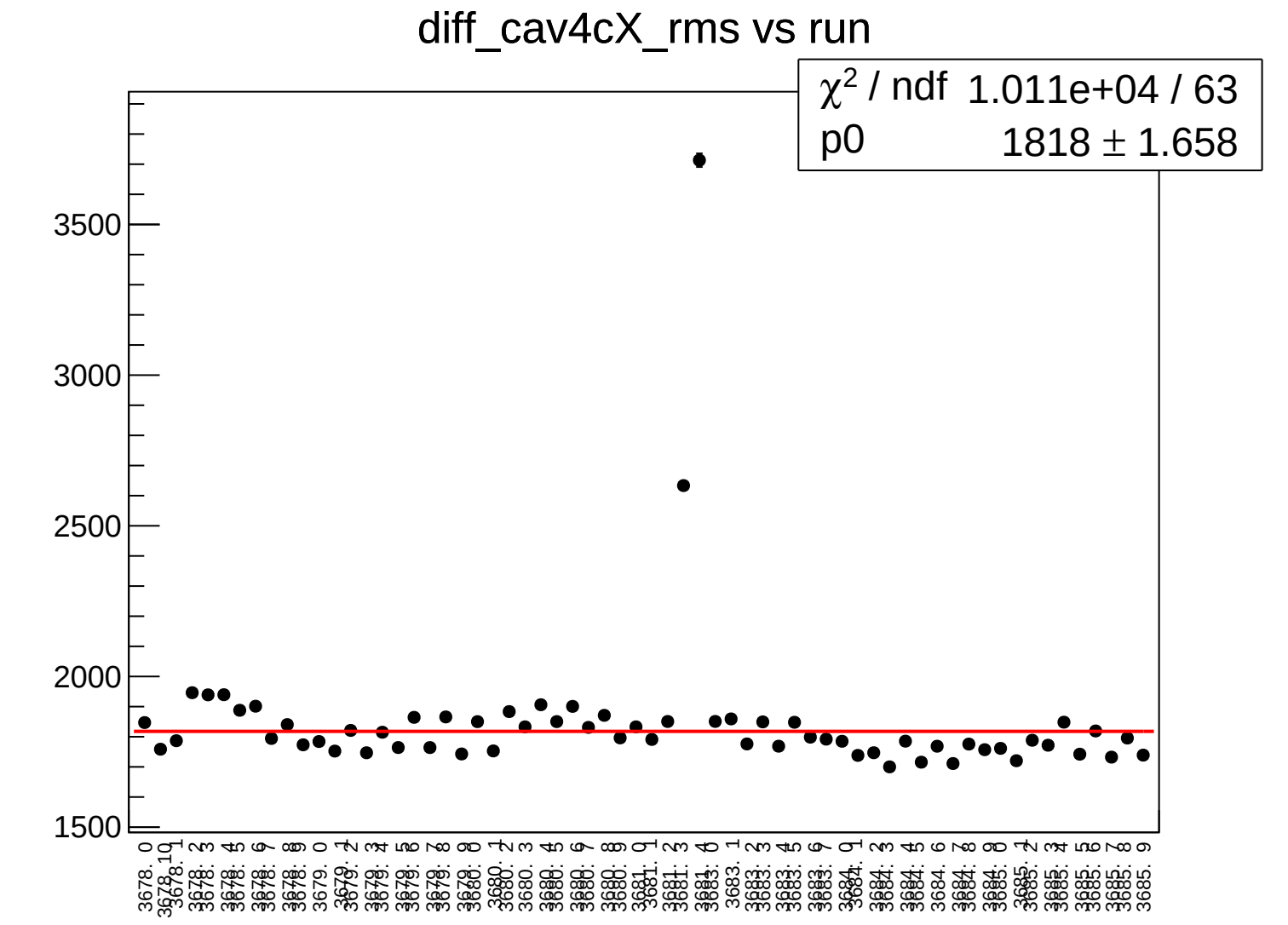

diff_cav4bY_mean vs run
χ² / ndf 82.62 / 63
p0 0.8937 ± 0.9251
pull
Entries 64
Mean 16.57
Std Dev 19.9

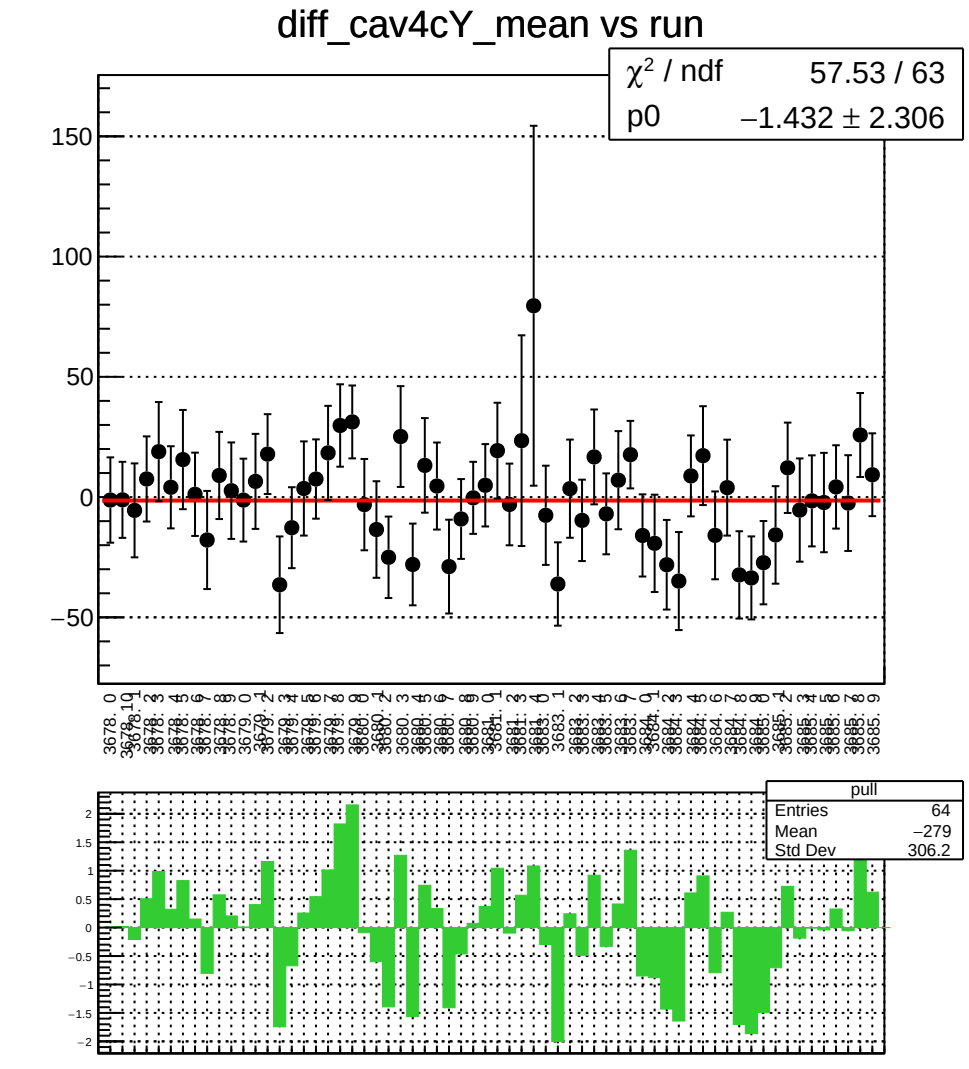

pull1D
Entries 64
Mean −0.07837
Std Dev 1.134

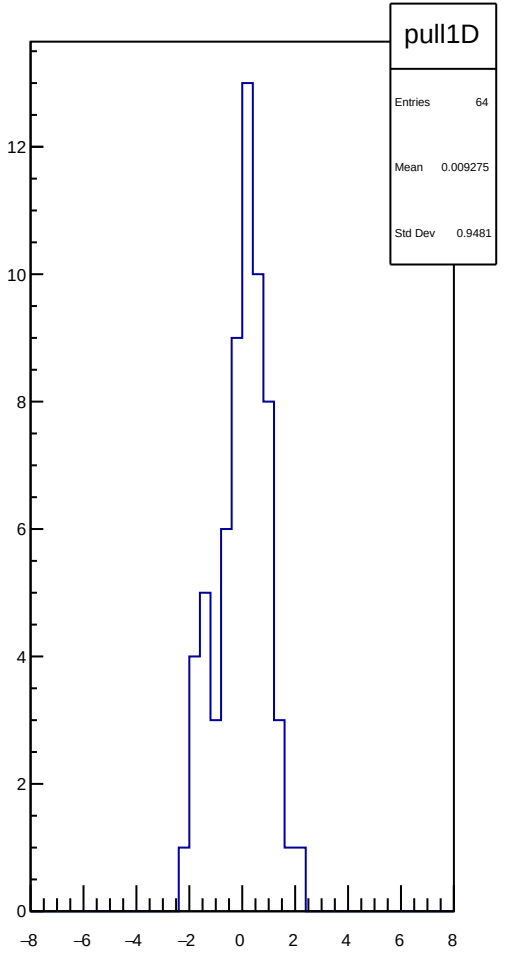

diff_cav4bY_rms vs run
×10^3
χ² / ndf 3.362e+05 / 63
p0 612.4 ± 0.6541
400
350
300
250
200
150
100
50

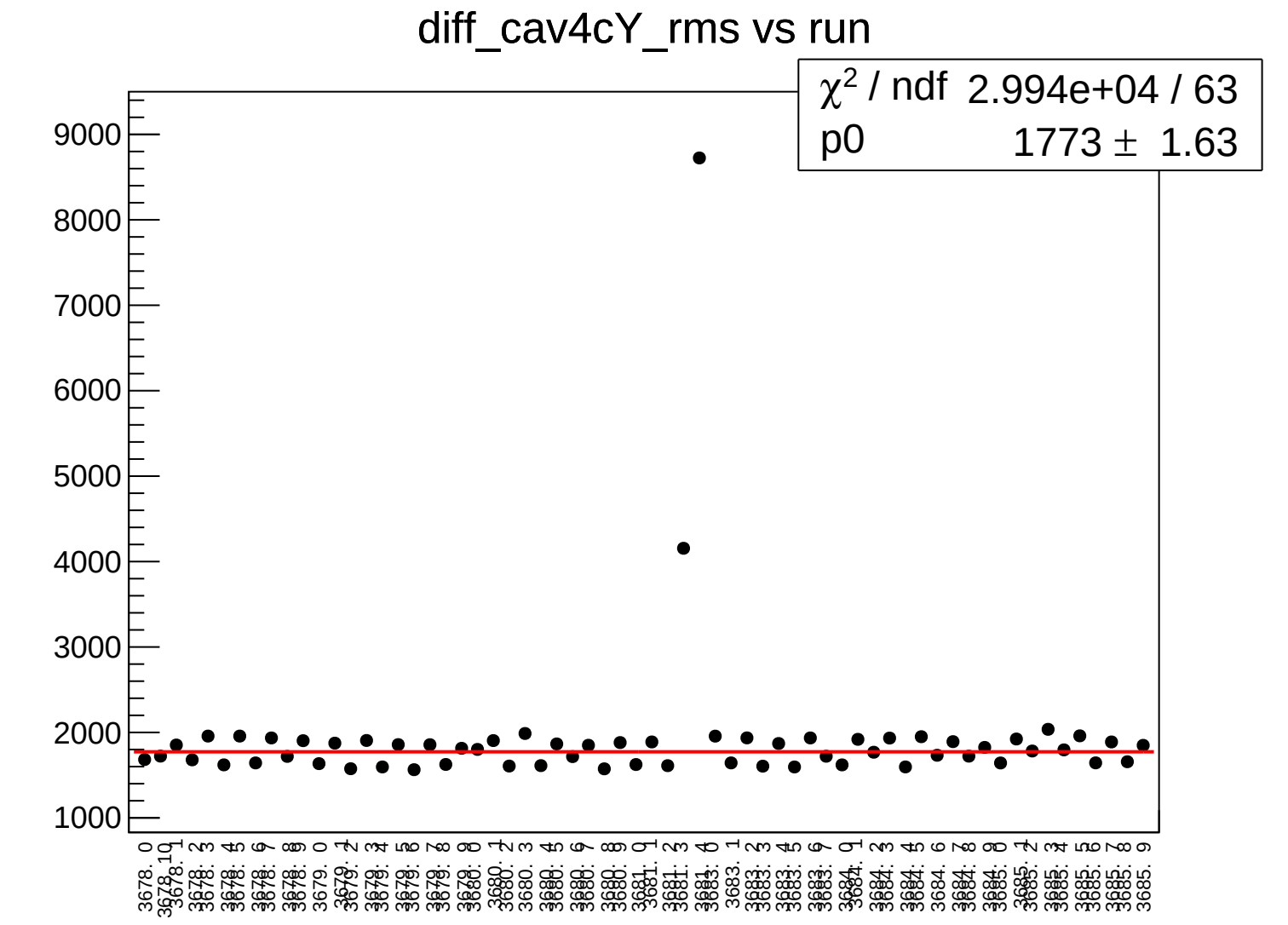

diff_cav4cX_mean vs run
χ² / ndf 58.09 / 63
p0 −0.4522 ± 2.344
pull
Entries 64
Mean 121.4
Std Dev 113.1

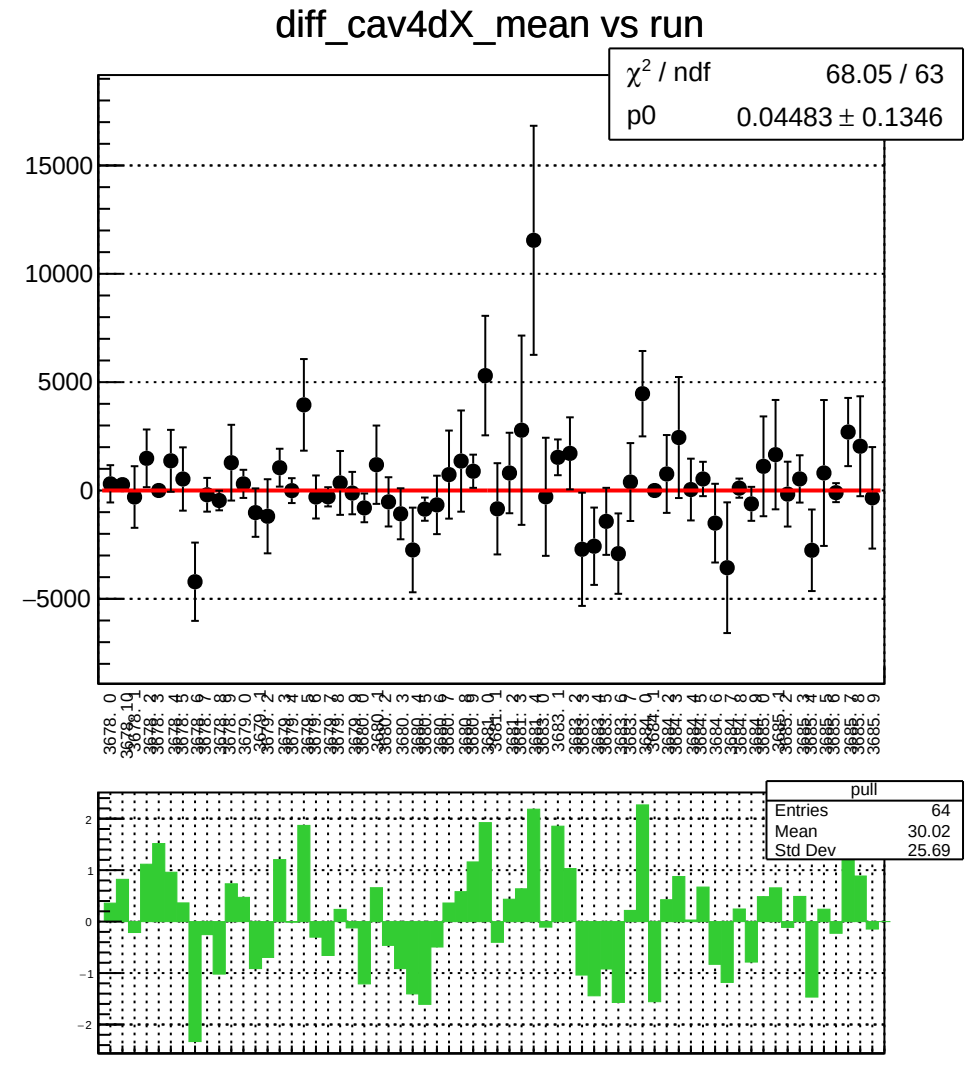

pull1D
Entries 64
Mean −0.001938
Std Dev 0.9527

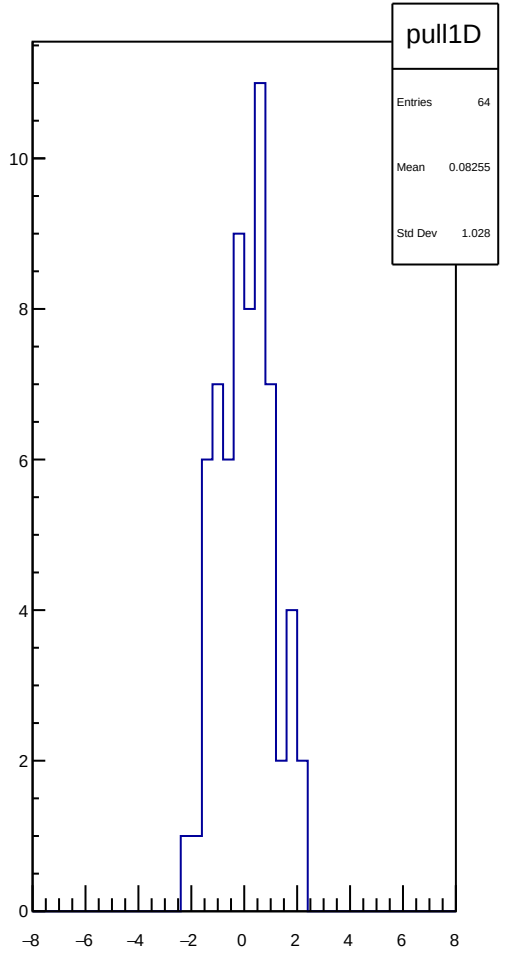

diff_cav4cX_rms vs run
χ² / ndf 1.011e+04 / 63
p0 1818 ± 1.658
3500
3000
2500
2000
1500

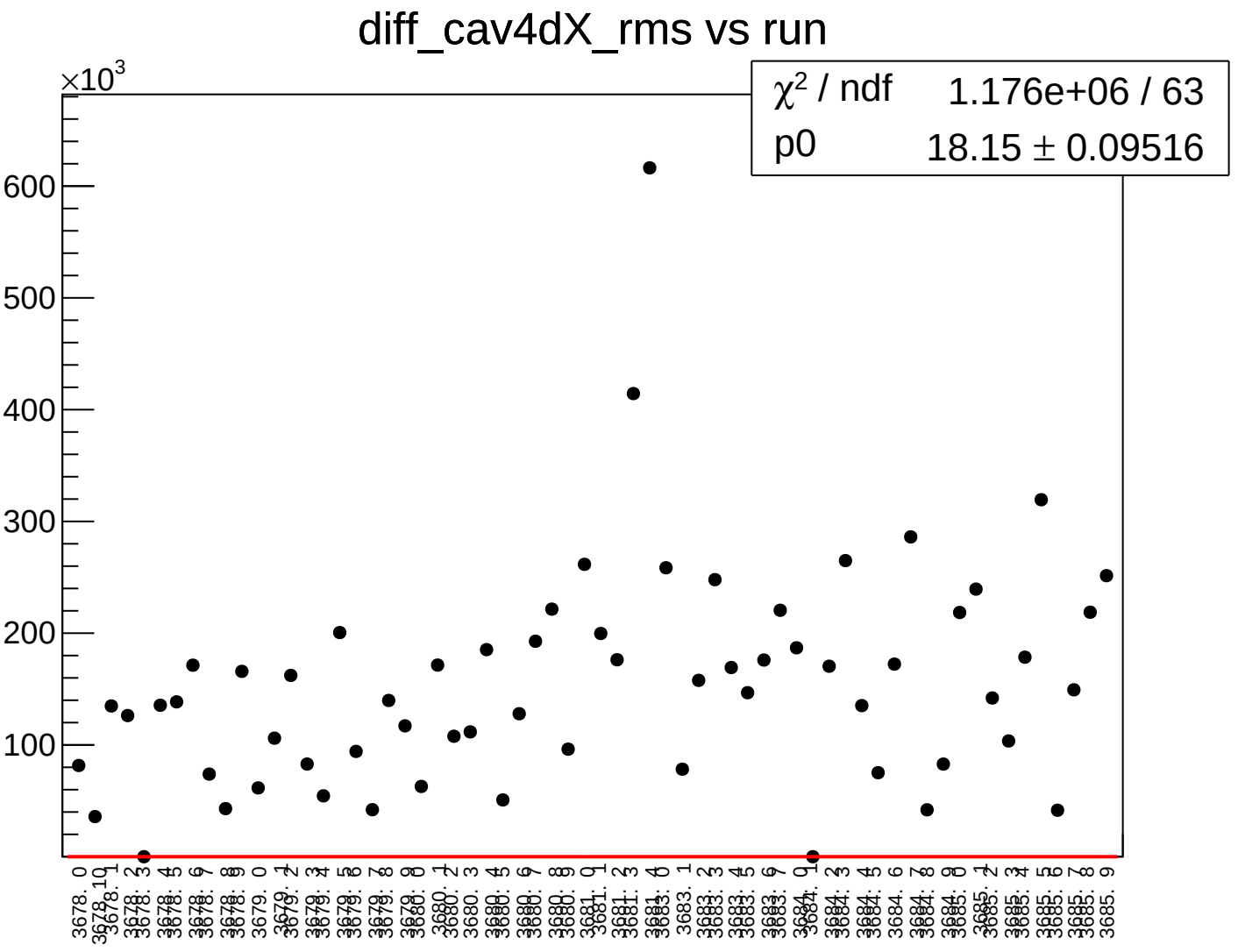

diff_cav4cY_mean vs run
χ² / ndf 57.53 / 63
p0 −1.432 ± 2.306
150
100
50
0
−50
pull
Entries 64
Mean −279
Std Dev 306.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

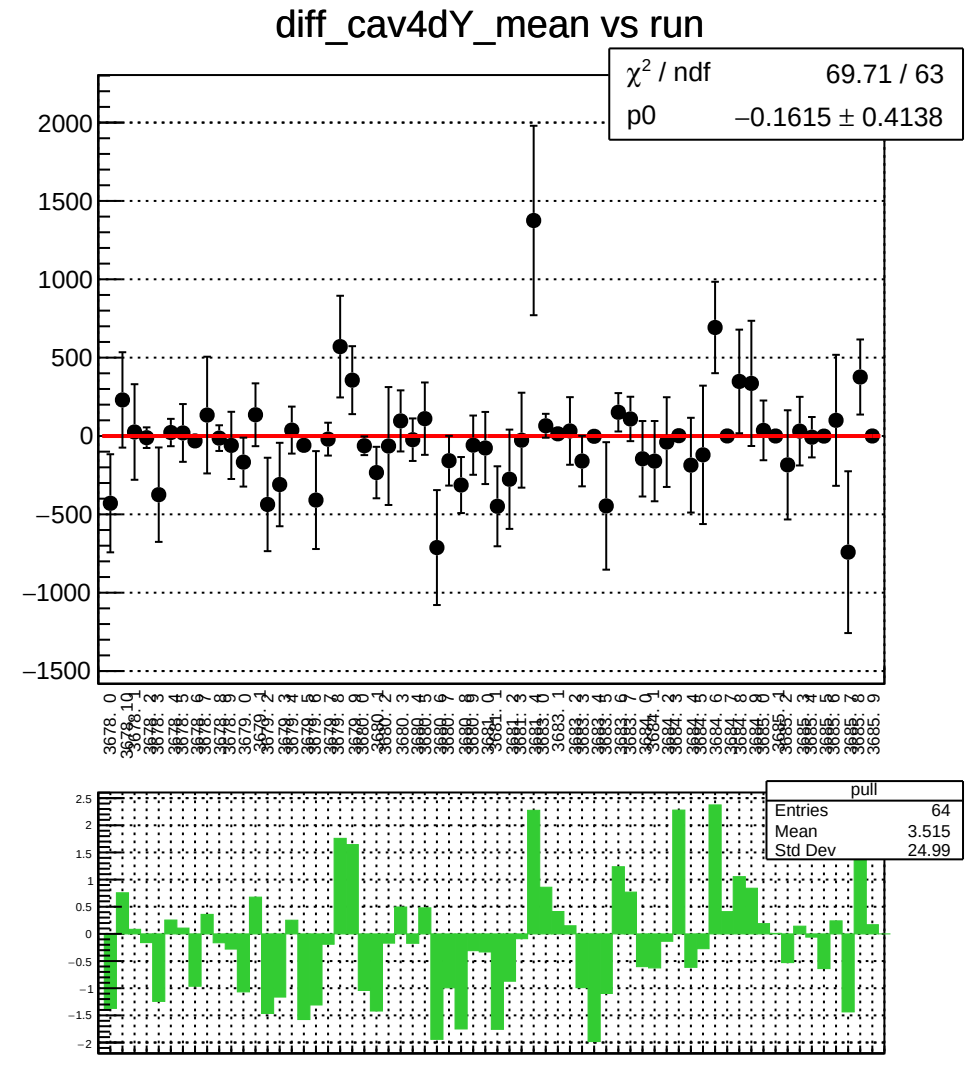

pull1D
Entries 64
Mean 0.009275
Std Dev 0.9481
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

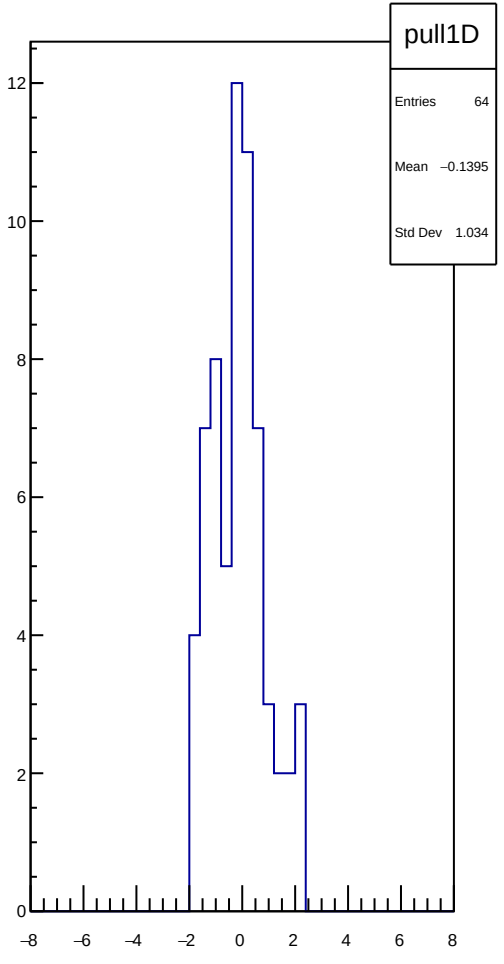

diff_cav4cY_rms vs run
χ² / ndf 2.994e+04 / 63
p0 1773 ± 1.63
9000
8000
7000
6000
5000
4000
3000
2000
1000

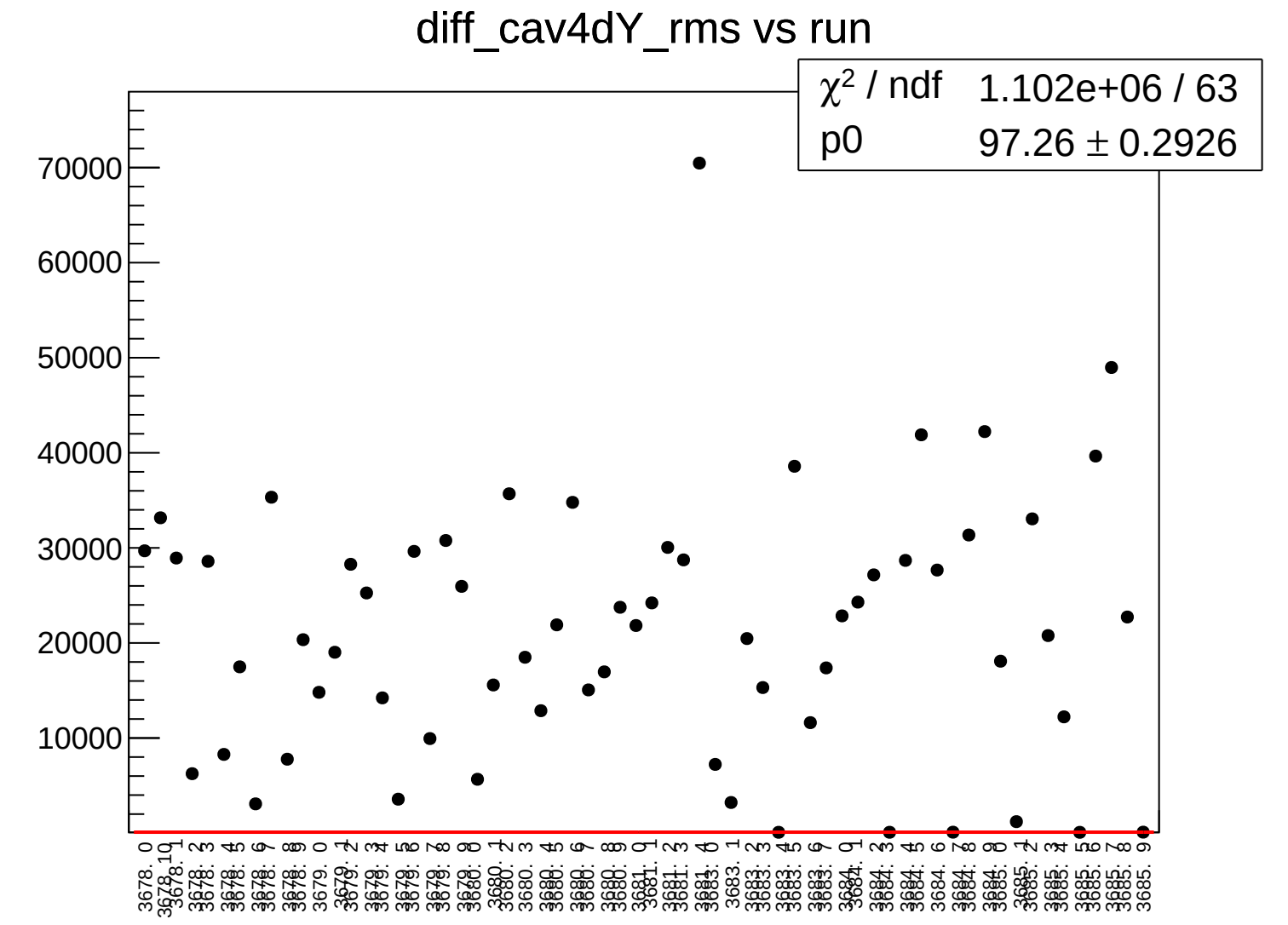

diff_cav4dX_mean vs run
χ² / ndf 68.05 / 63
p0 0.04483 ± 0.1346
15000
10000
5000
0
−5000
pull
Entries 64
Mean 30.02
Std Dev 25.69
2
1
0
−1
−2

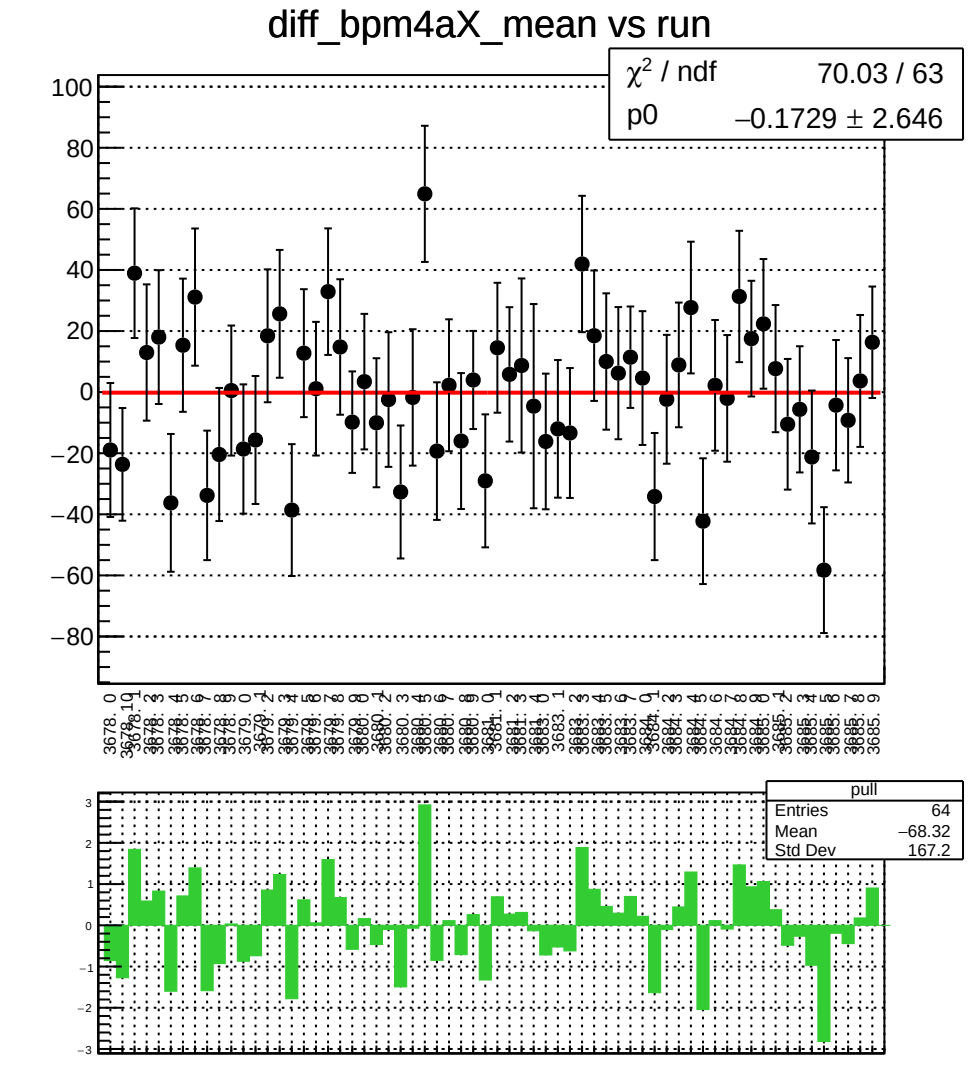

pull1D
Entries 64
Mean 0.08255
Std Dev 1.028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

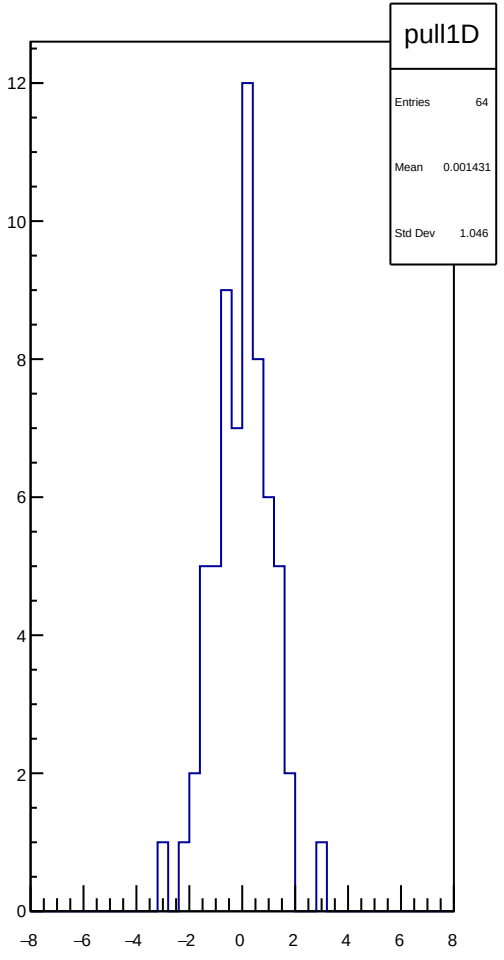

diff_cav4dX_rms vs run
×10^3
χ² / ndf 1.176e+06 / 63
p0 18.15 ± 0.09516
600
500
400
300
200
100

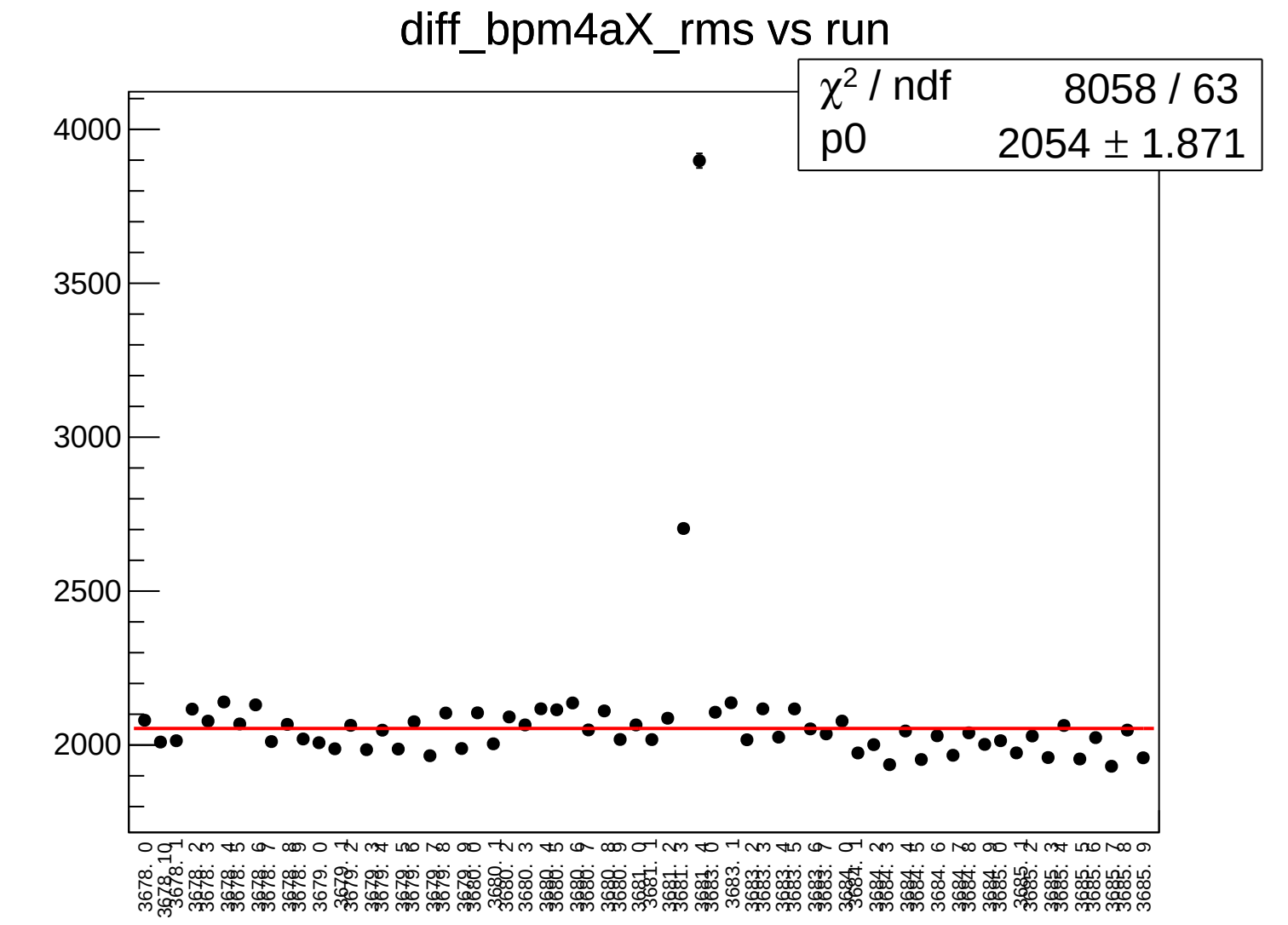

diff_cav4dY_mean vs run
$\chi^2$ / ndf 69.71 / 63
p0 −0.1615 ± 0.4138
pull
Entries 64
Mean 3.515
Std Dev 24.99

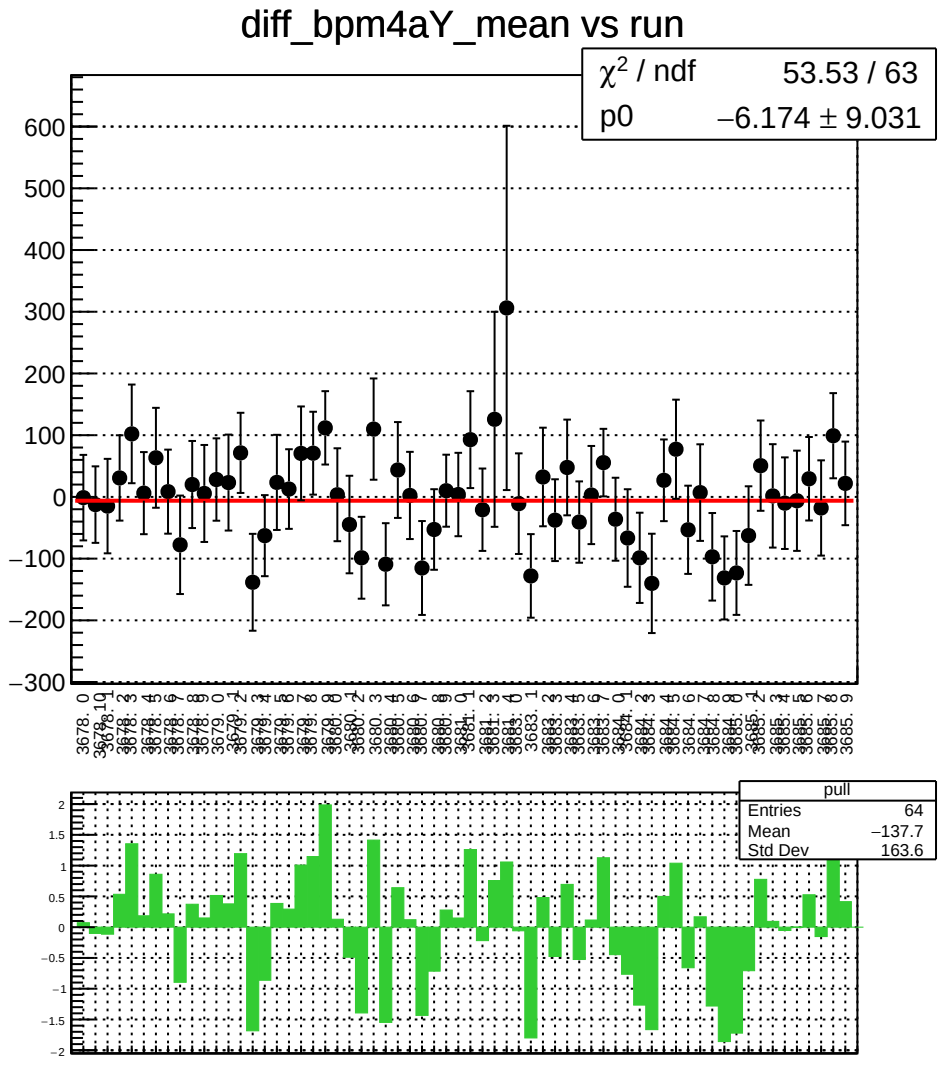

pull1D
Entries 64
Mean −0.1395
Std Dev 1.034

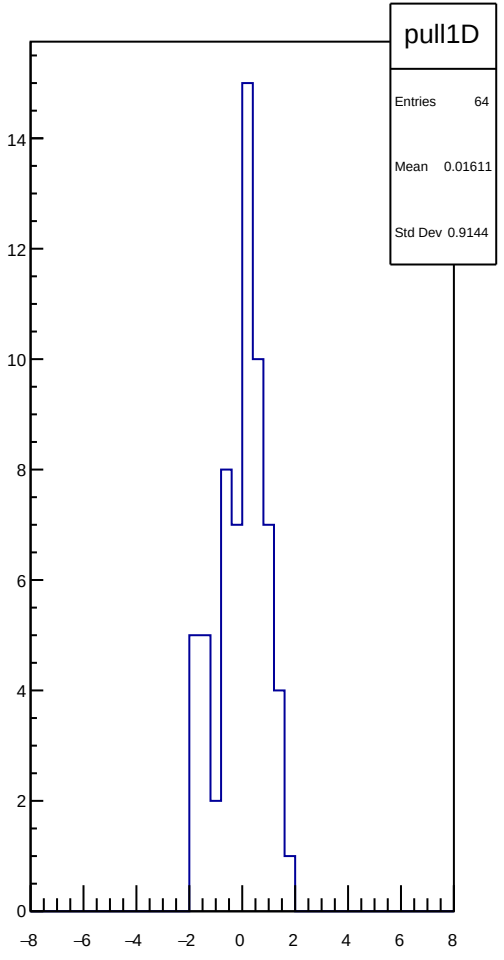

diff_cav4dY_rms vs run
$\chi^2$ / ndf 1.102e+06 / 63
p0 97.26 ± 0.2926
70000
60000
50000
40000
30000
20000
10000

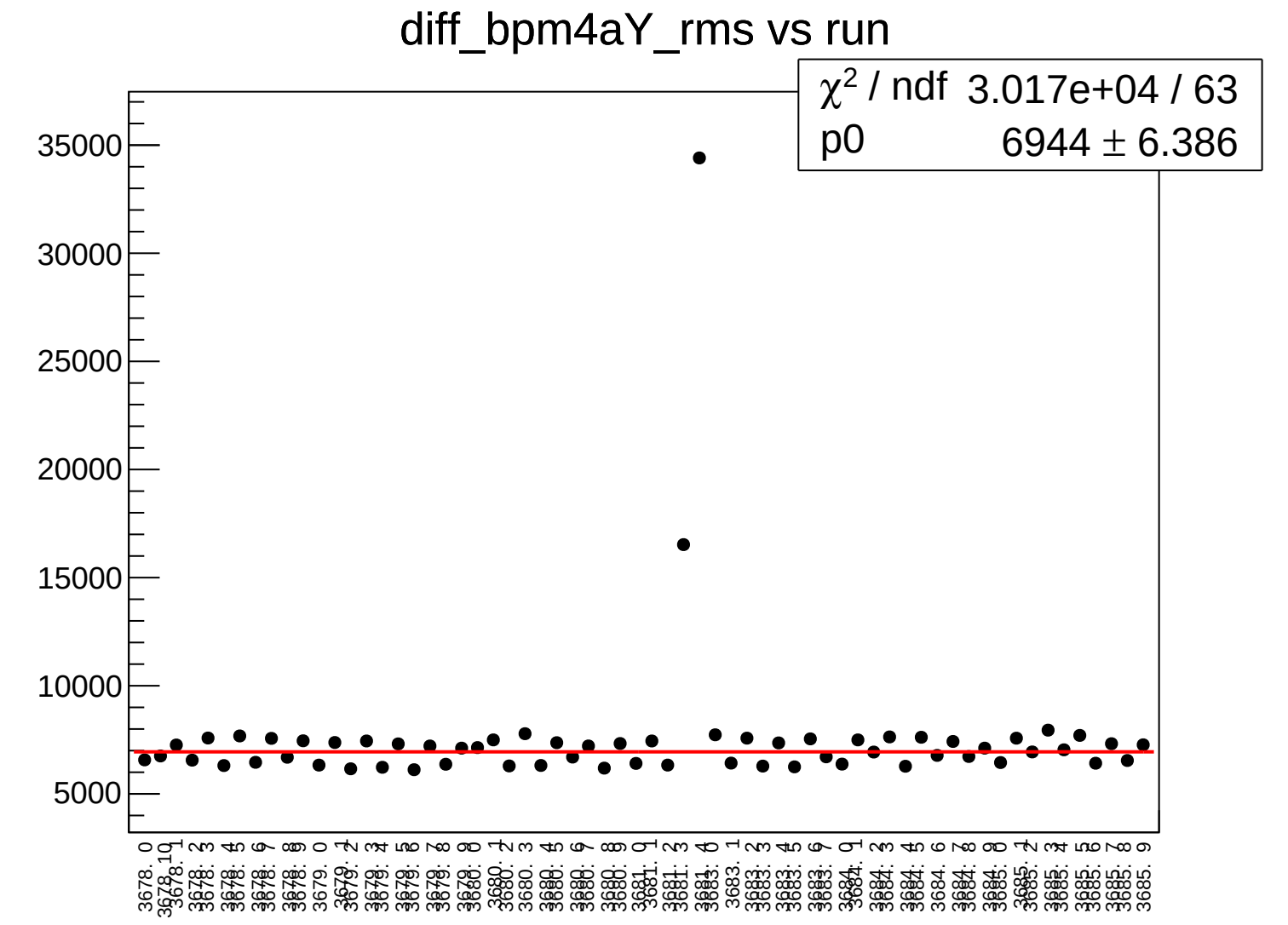

diff_bpm4aX_mean vs run
χ² / ndf 70.03 / 63
p0 −0.1729 ± 2.646
pull
Entries 64
Mean −68.32
Std Dev 167.2

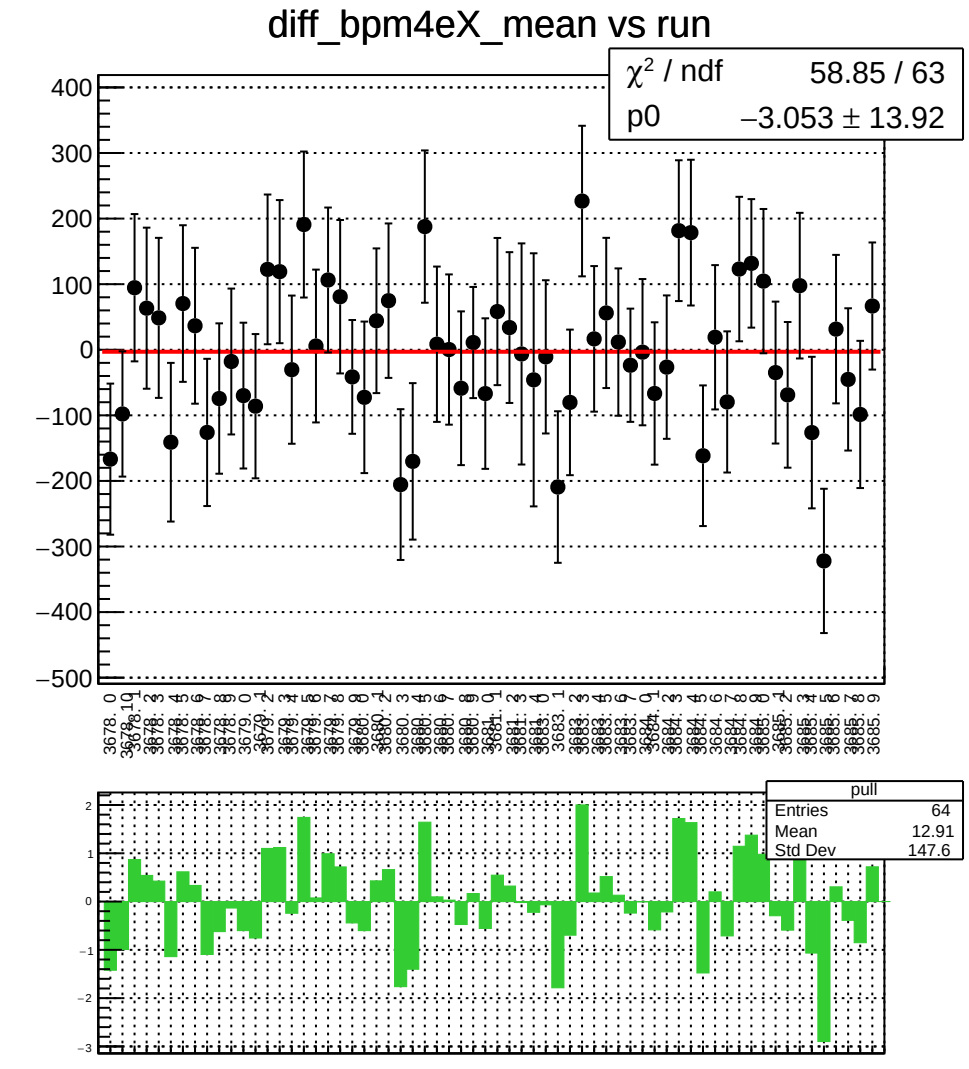

pull1D
Entries 64
Mean 0.001431
Std Dev 1.046

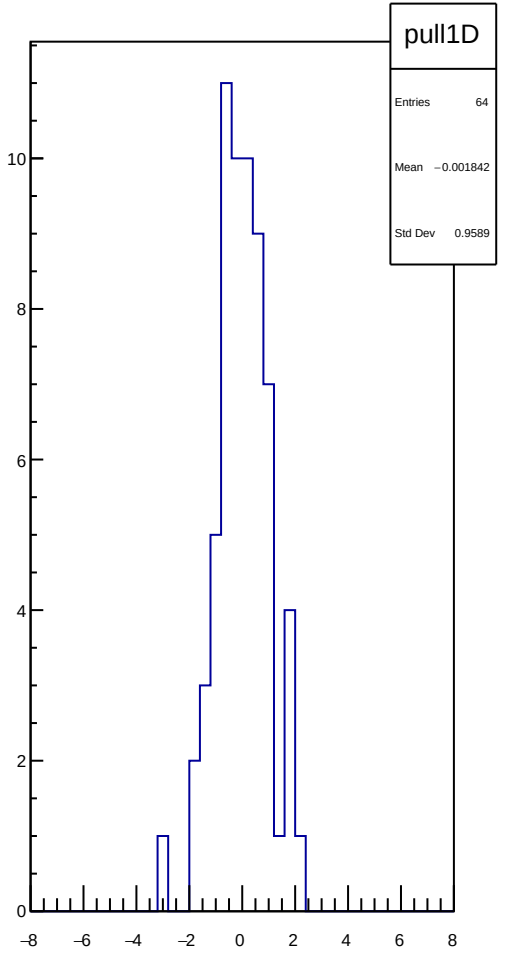

diff_bpm4aX_rms vs run
χ² / ndf 8058 / 63
p0 2054 ± 1.871
4000
3500
3000
2500
2000

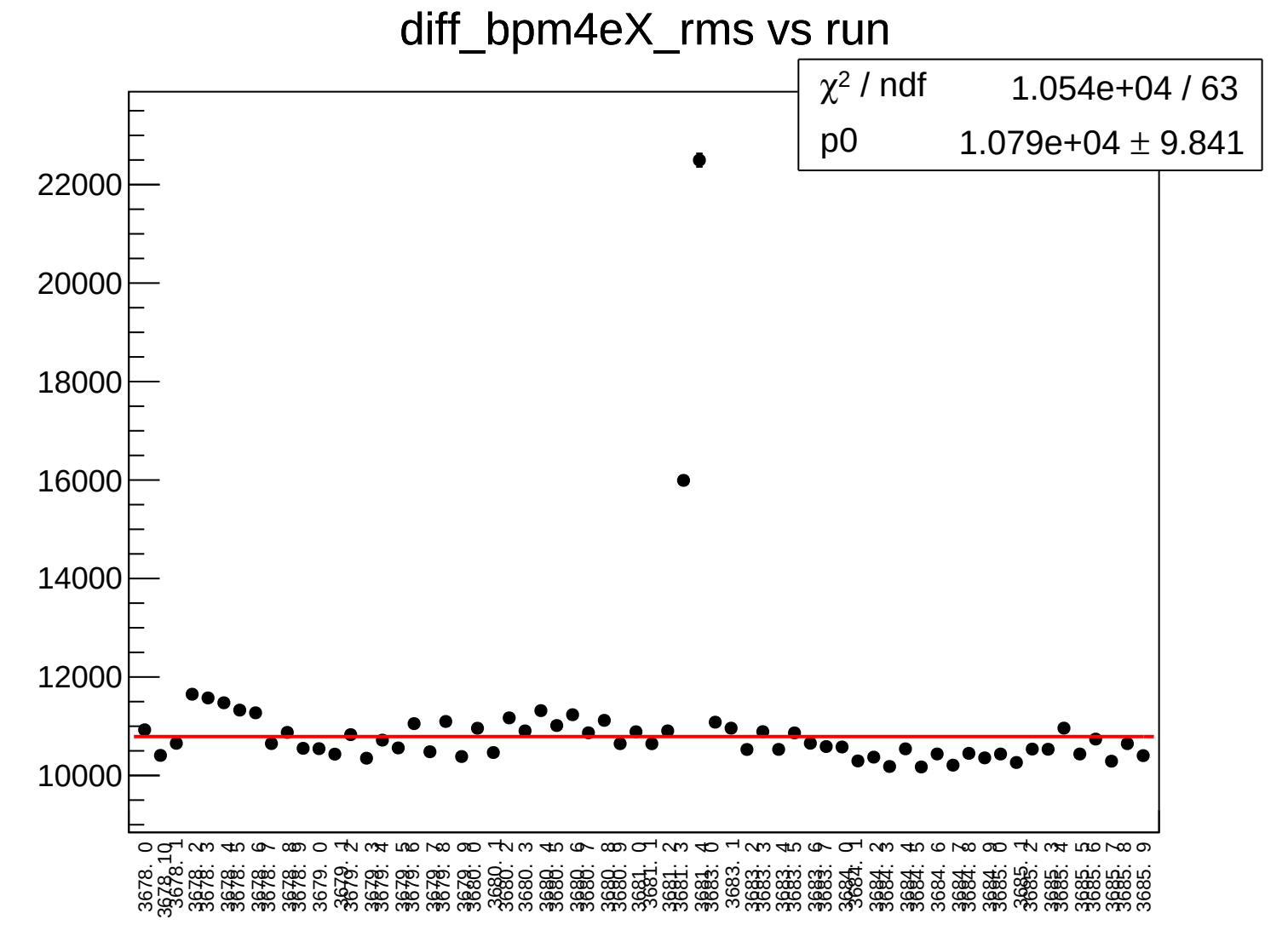

diff_bpm4aY_mean vs run
χ² / ndf 53.53 / 63
p0 −6.174 ± 9.031
pull
Entries 64
Mean −137.7
Std Dev 163.6

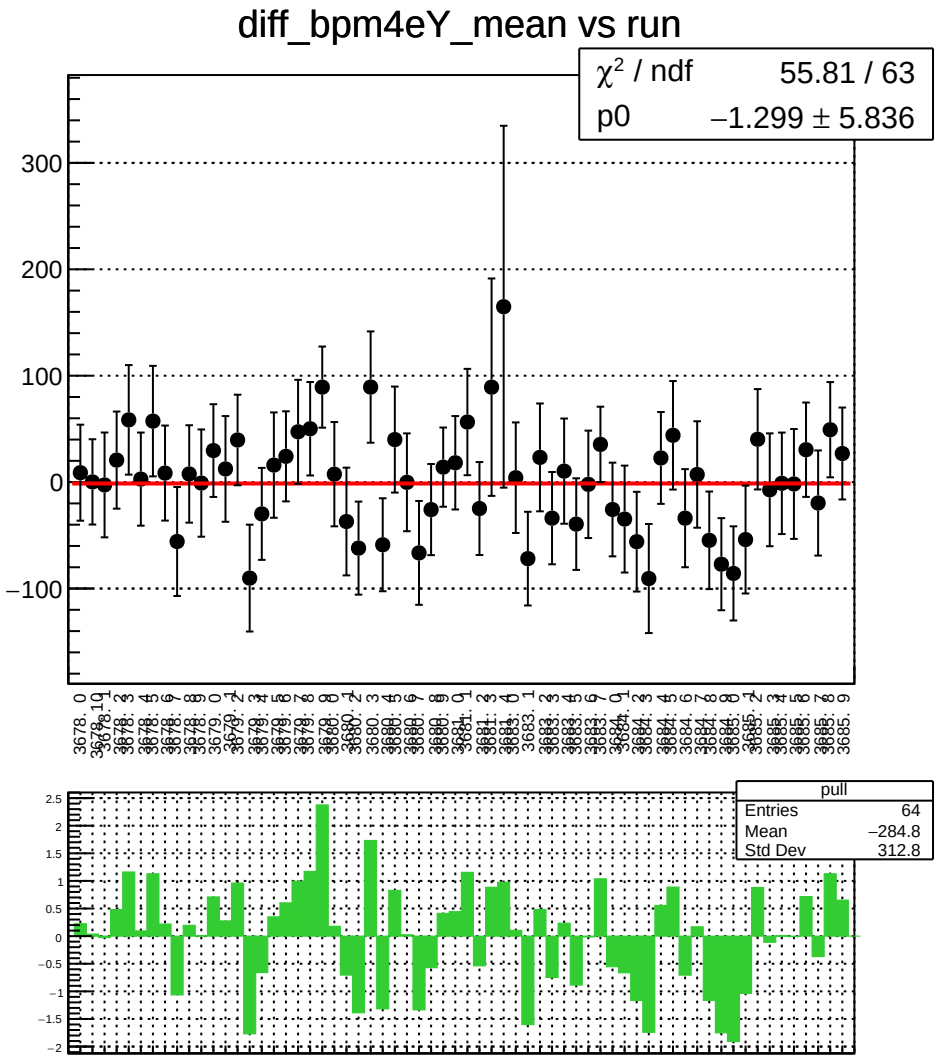

pull1D
Entries 64
Mean 0.01611
Std Dev 0.9144

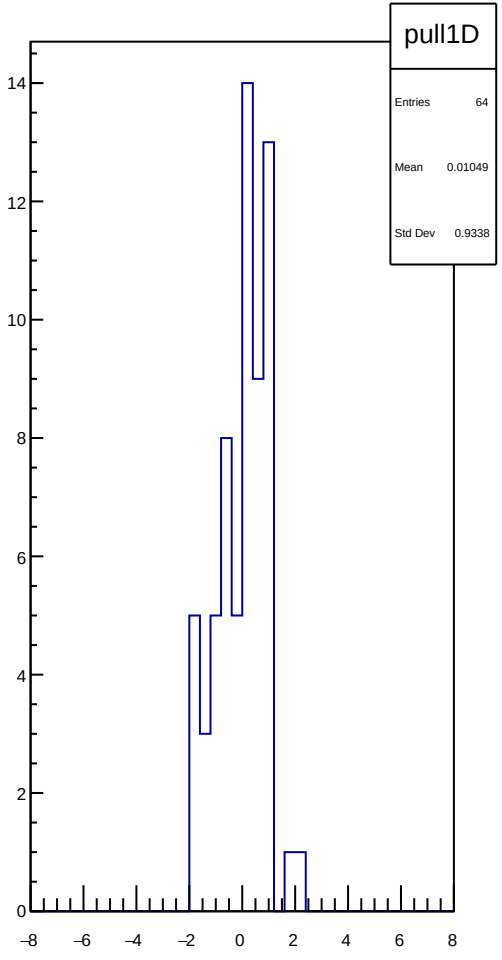

diff_bpm4aY_rms vs run
χ² / ndf 3.017e+04 / 63
p0 6944 ± 6.386
35000
30000
25000
20000
15000
10000
5000

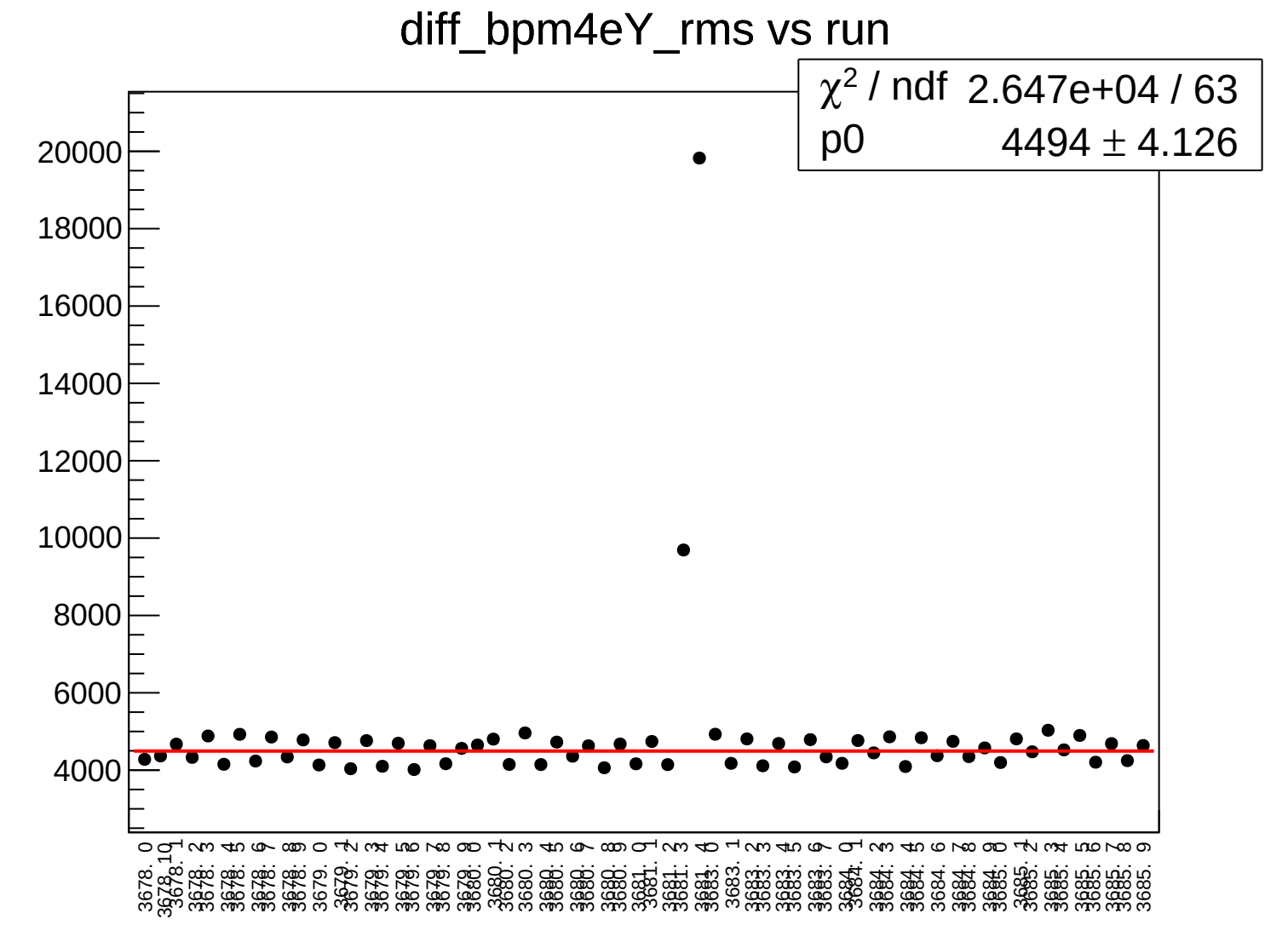

diff_bpm4eX_mean vs run
χ² / ndf 58.85 / 63
p0 −3.053 ± 13.92
pull
Entries 64
Mean 12.91
Std Dev 147.6

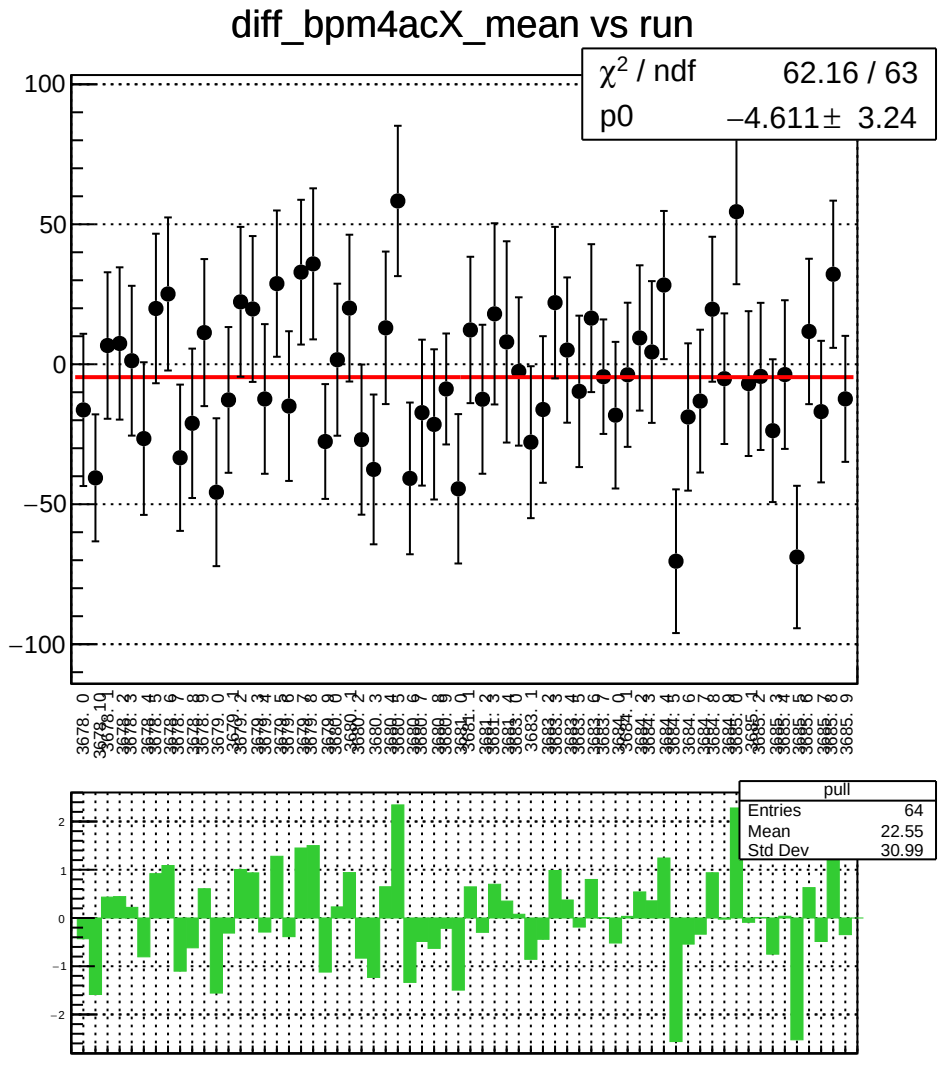

pull1D
Entries 64
Mean −0.001842
Std Dev 0.9589

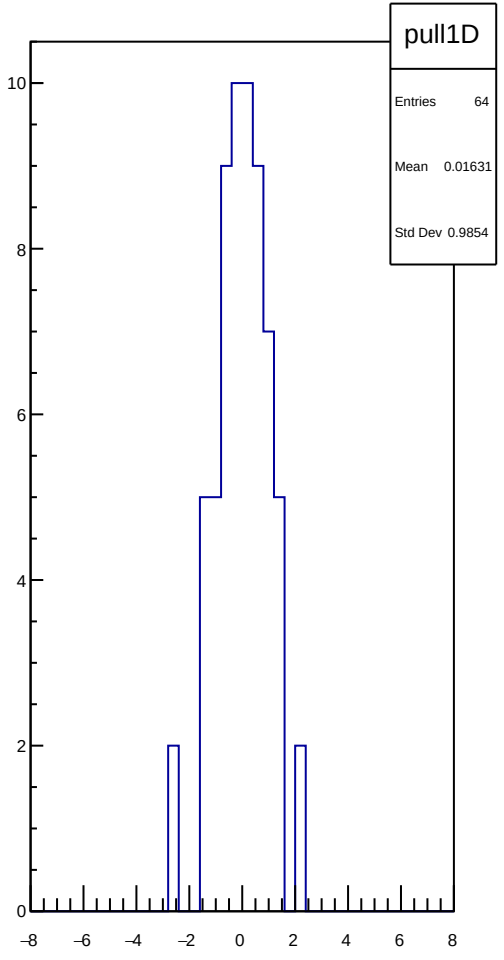

diff_bpm4eX_rms vs run
χ² / ndf 1.054e+04 / 63
p0 1.079e+04 ± 9.841
22000
20000
18000
16000
14000
12000
10000

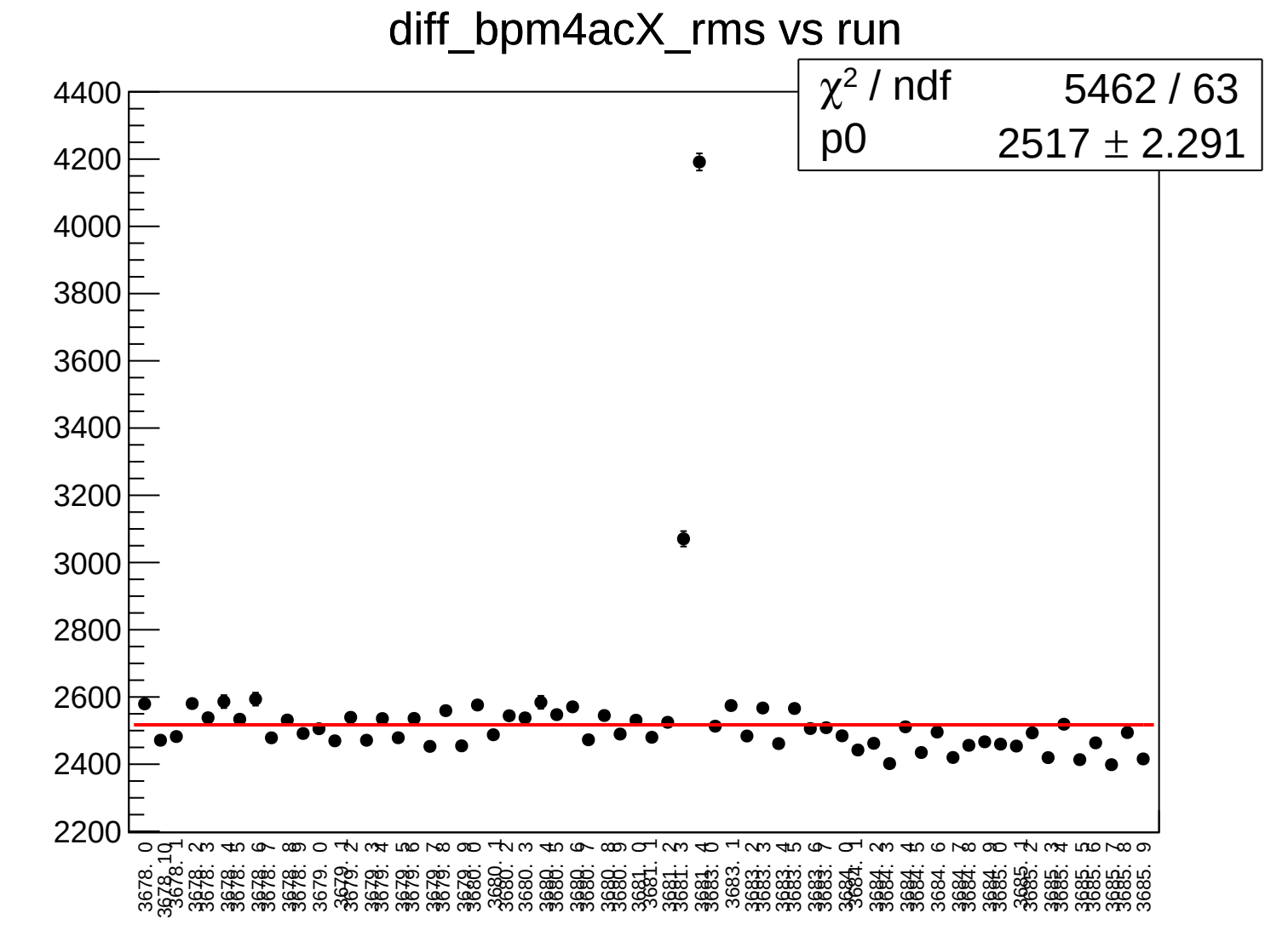

diff_bpm4eY_mean vs run
χ² / ndf 55.81 / 63
p0 −1.299 ± 5.836
pull
Entries 64
Mean −284.8
Std Dev 312.8

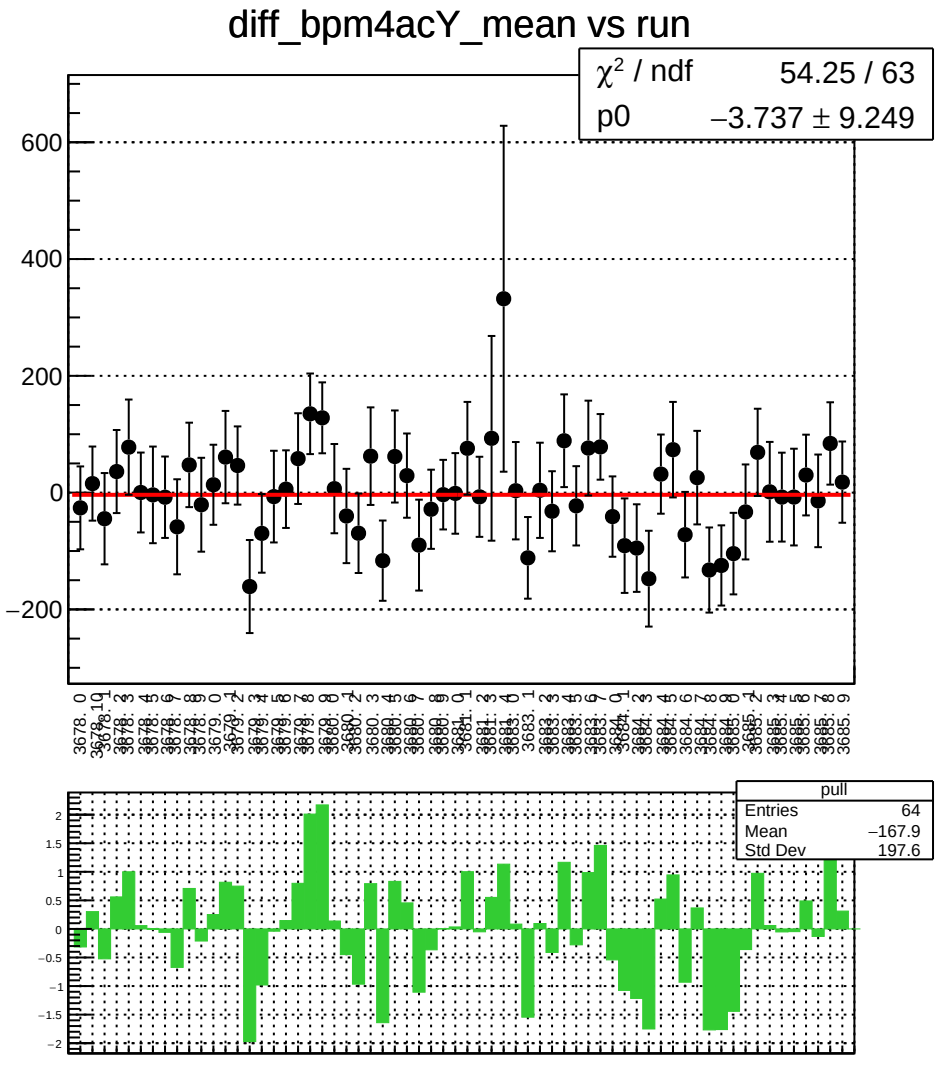

pull1D
Entries 64
Mean 0.01049
Std Dev 0.9338

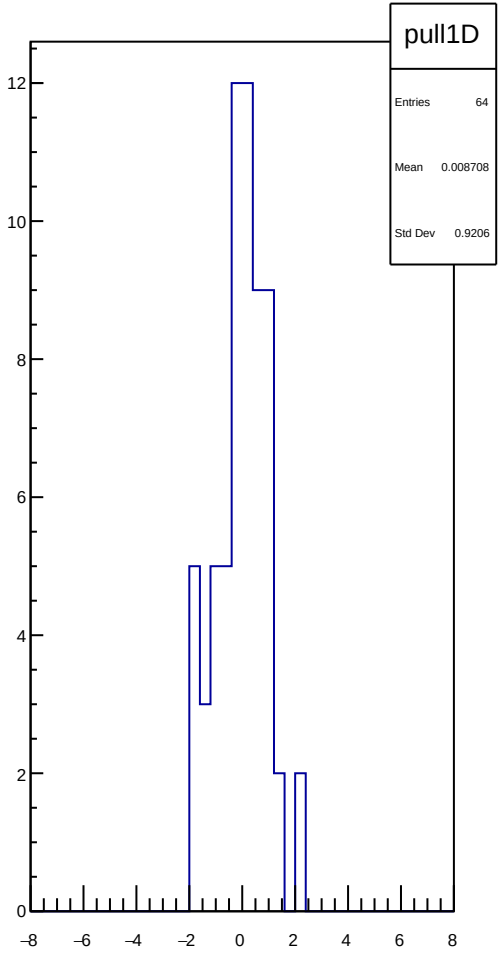

diff_bpm4eY_rms vs run
χ² / ndf 2.647e+04 / 63
p0 4494 ± 4.126
20000
18000
16000
14000
12000
10000
8000
6000
4000

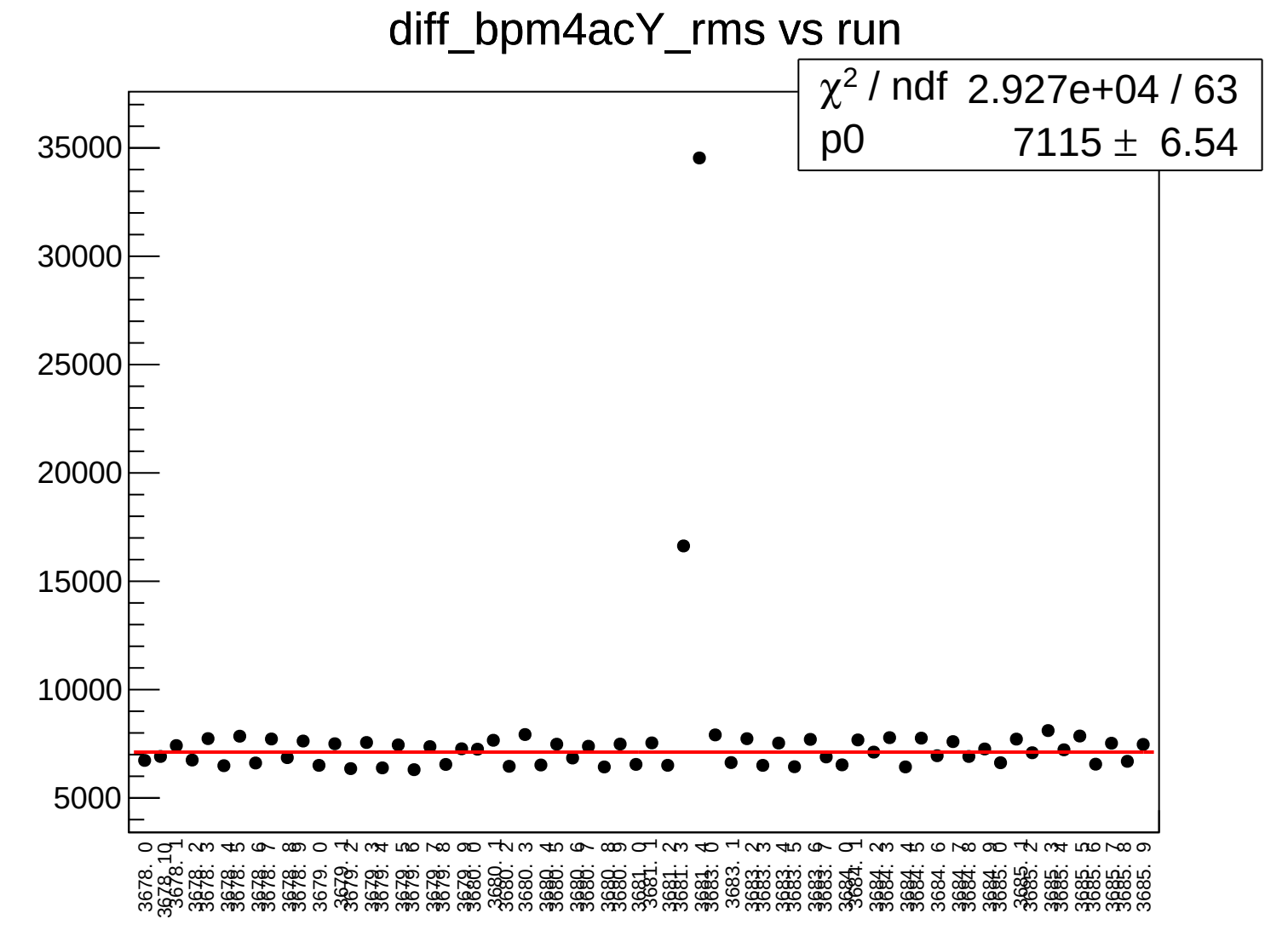

diff_bpm4acX_mean vs run
χ² / ndf 62.16 / 63
p0 −4.611± 3.24
pull
Entries 64
Mean 22.55
Std Dev 30.99

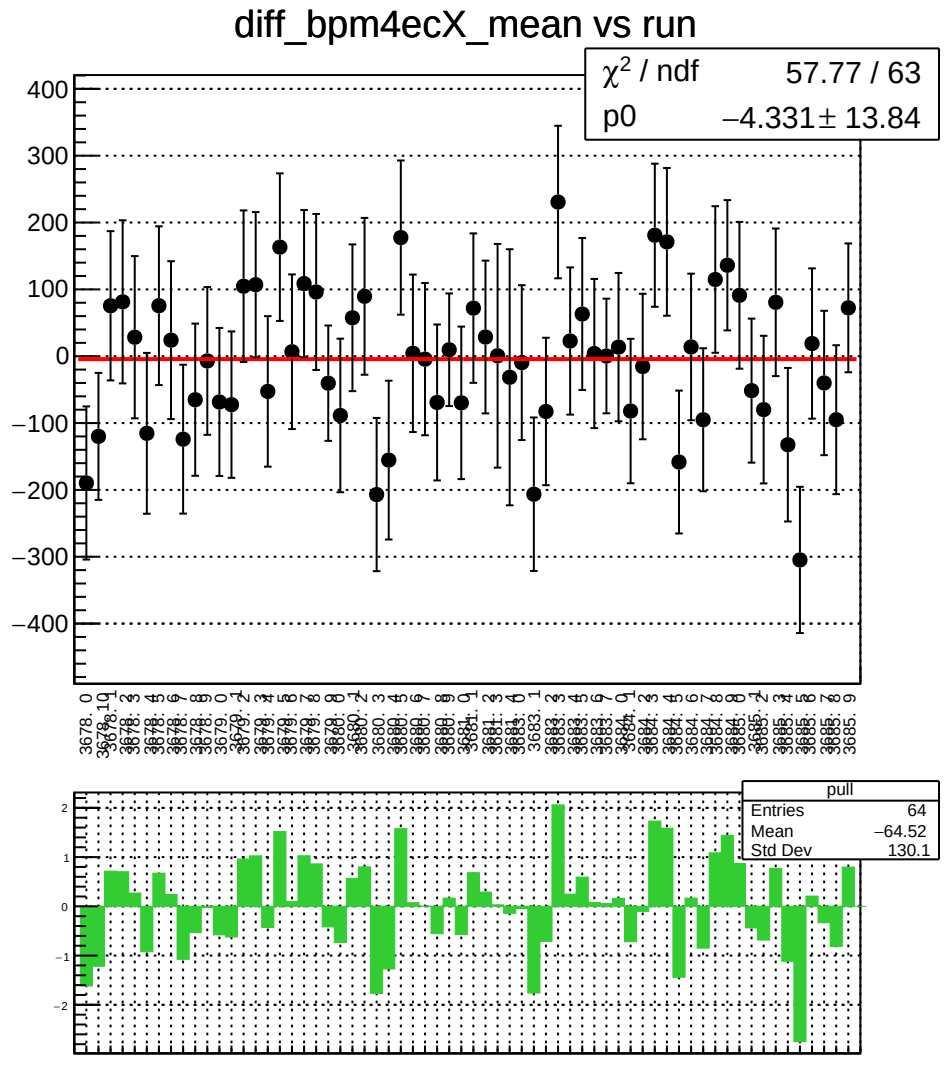

pull1D
Entries 64
Mean 0.01631
Std Dev 0.9854

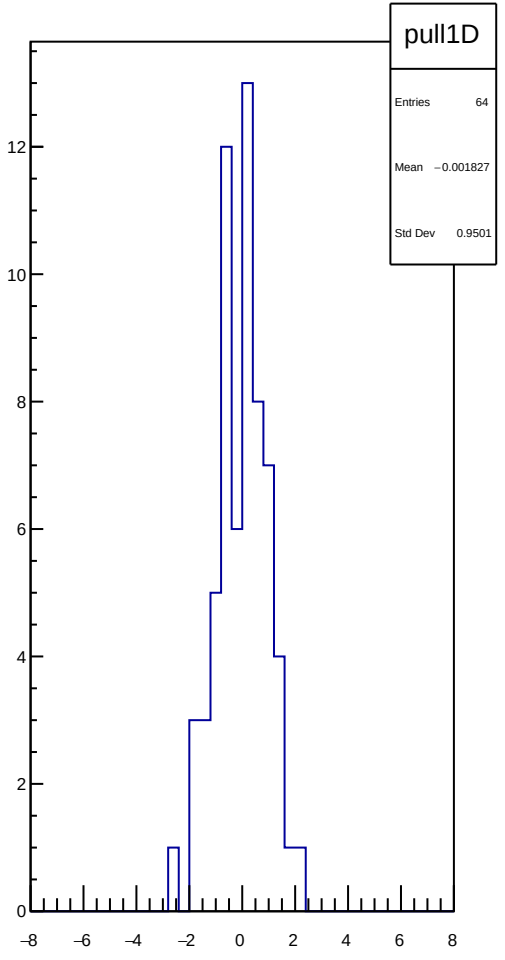

diff_bpm4acX_rms vs run
χ² / ndf 5462 / 63
p0 2517 ± 2.291
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

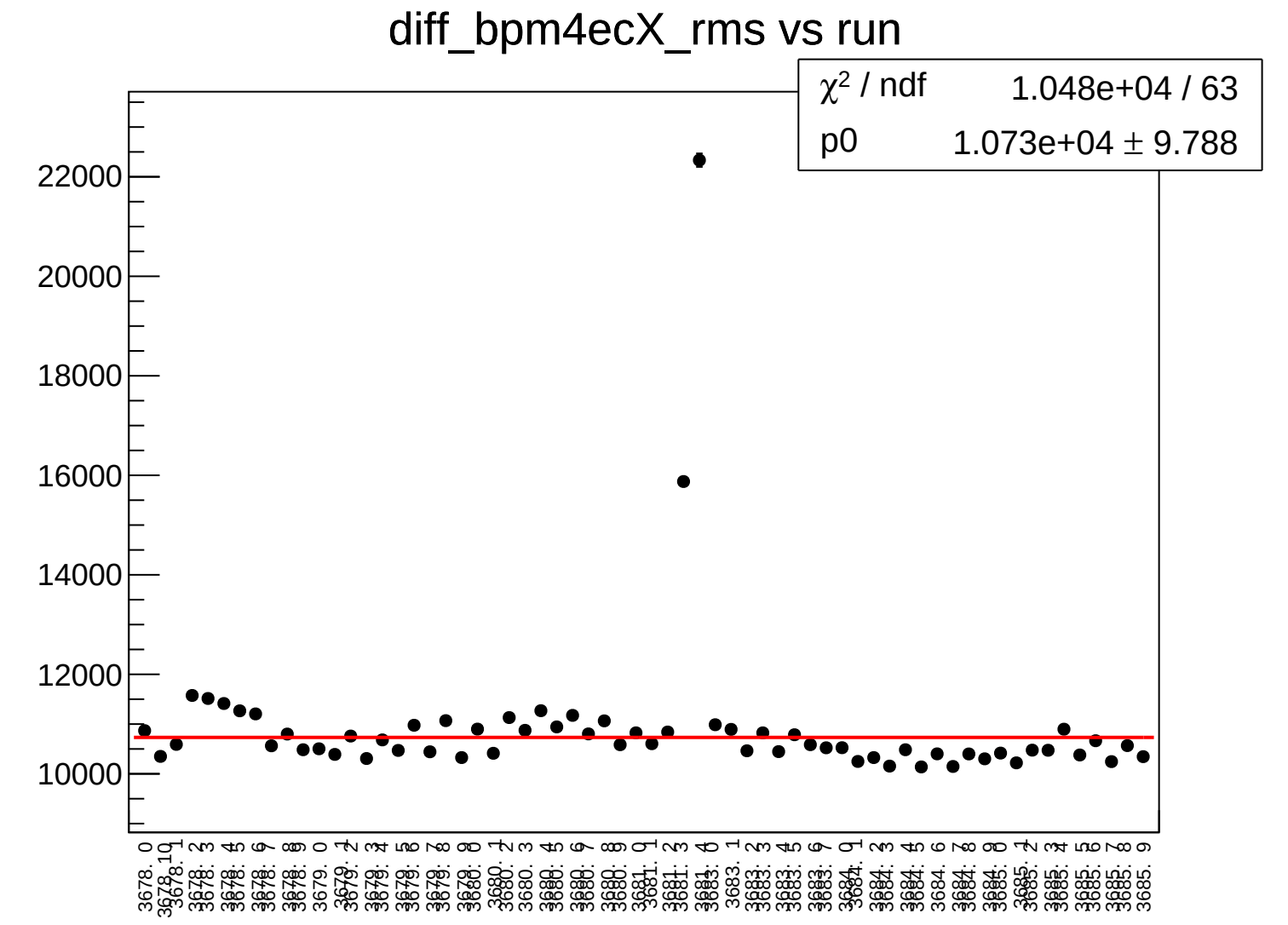

diff_bpm4acY_mean vs run
χ² / ndf 54.25 / 63
p0 −3.737 ± 9.249
pull
Entries 64
Mean −167.9
Std Dev 197.6

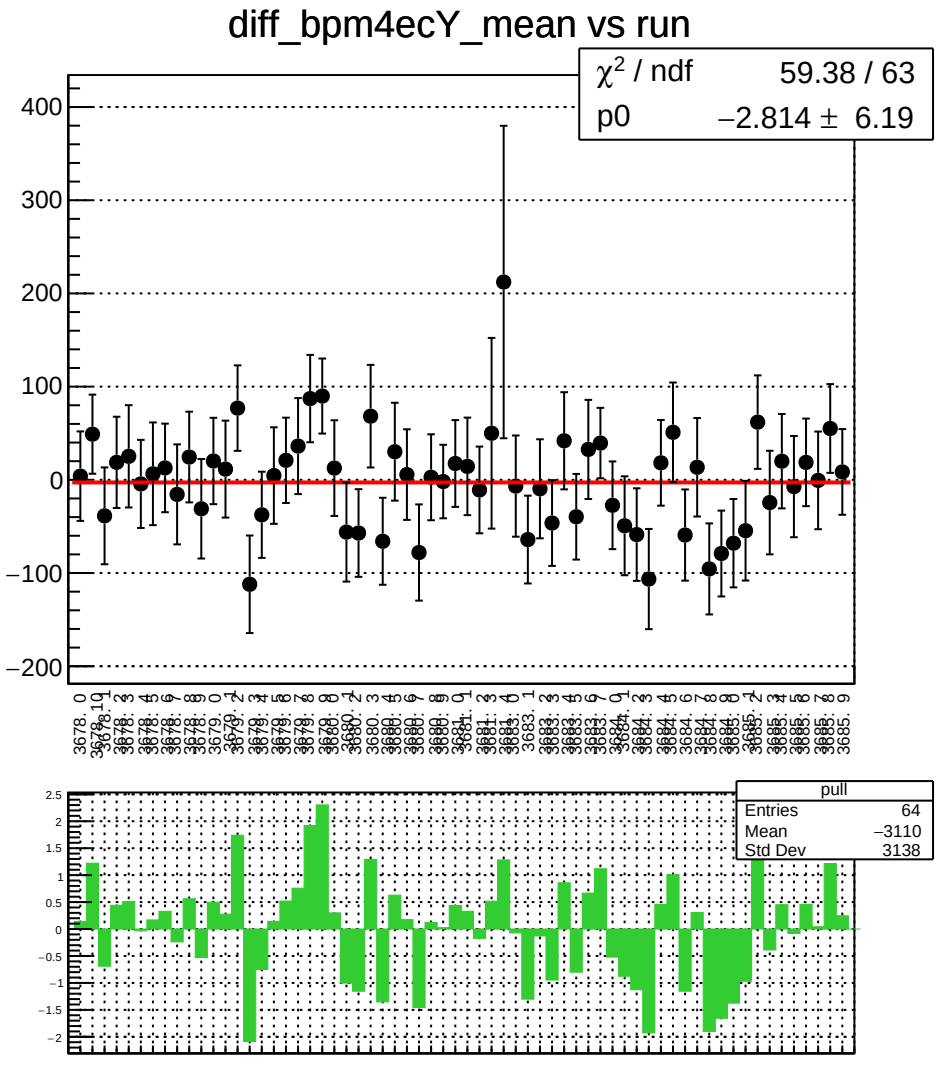

pull1D
Entries 64
Mean 0.008708
Std Dev 0.9206

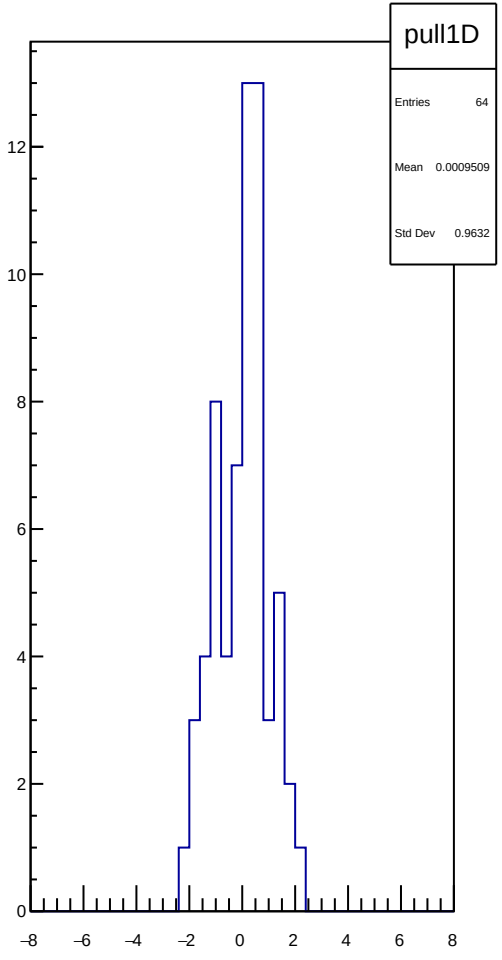

diff_bpm4acY_rms vs run
χ² / ndf 2.927e+04 / 63
p0 7115 ± 6.54
35000
30000
25000
20000
15000
10000
5000

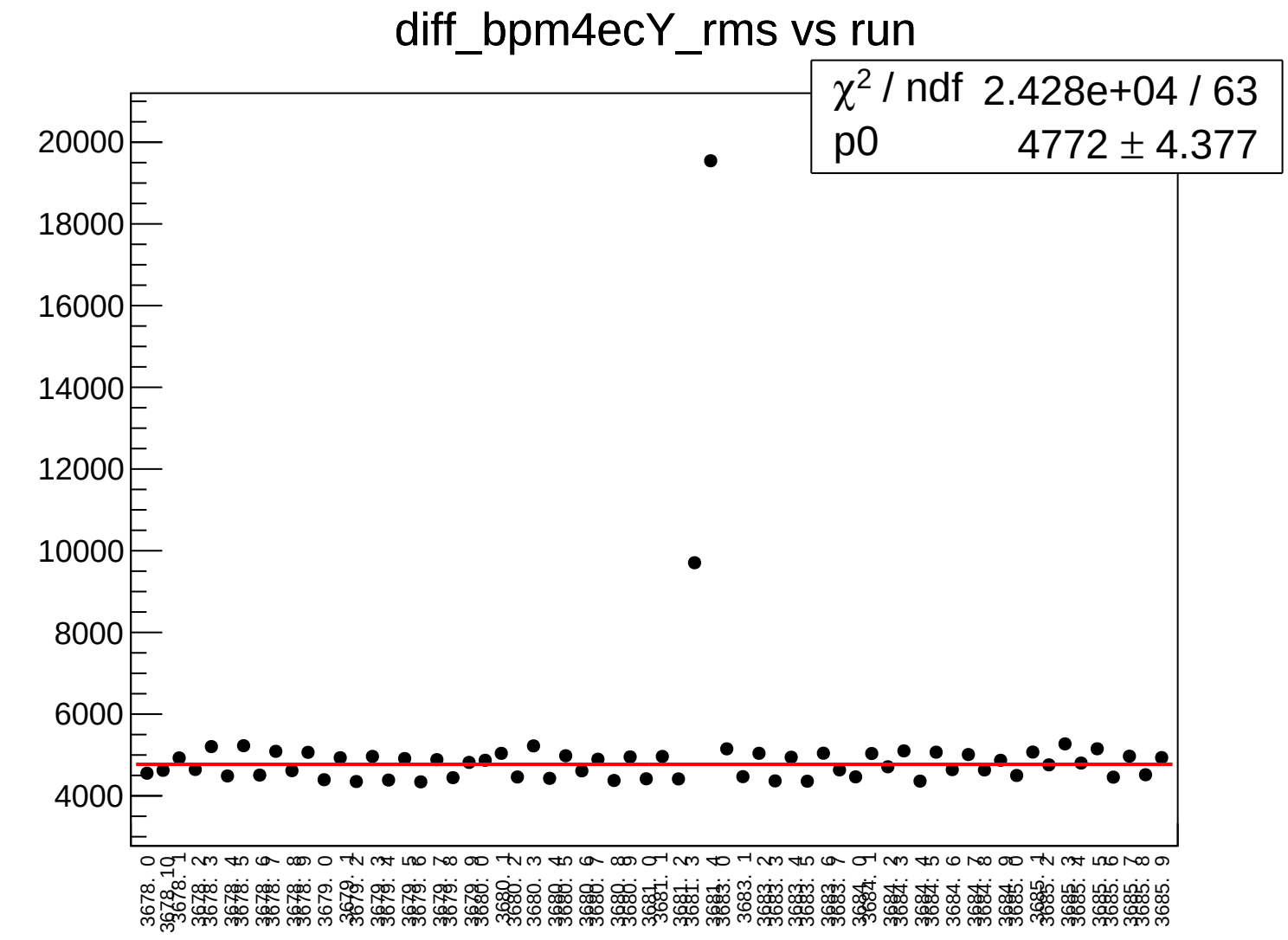

diff_bpm4ecX_mean vs run
χ² / ndf 57.77 / 63
p0 −4.331 ± 13.84
pull
Entries 64
Mean −64.52
Std Dev 130.1

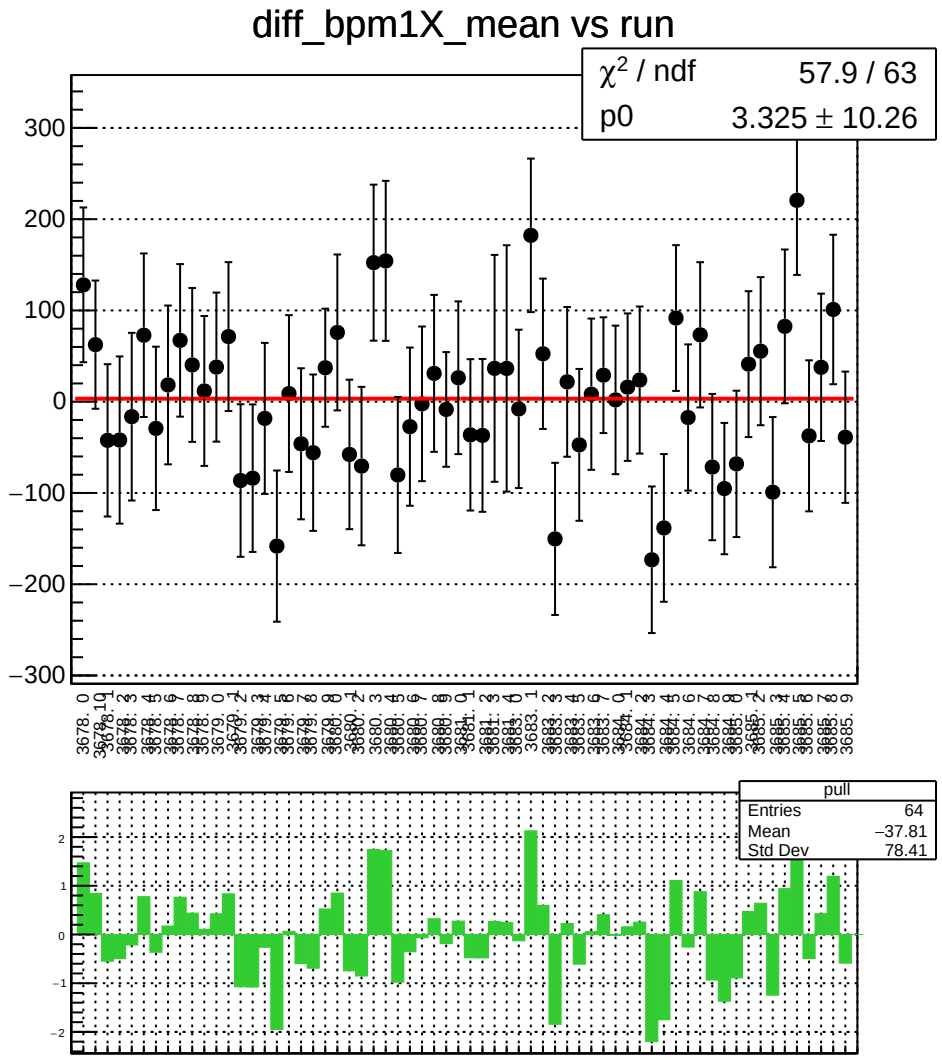

pull1D
Entries 64
Mean −0.001827
Std Dev 0.9501

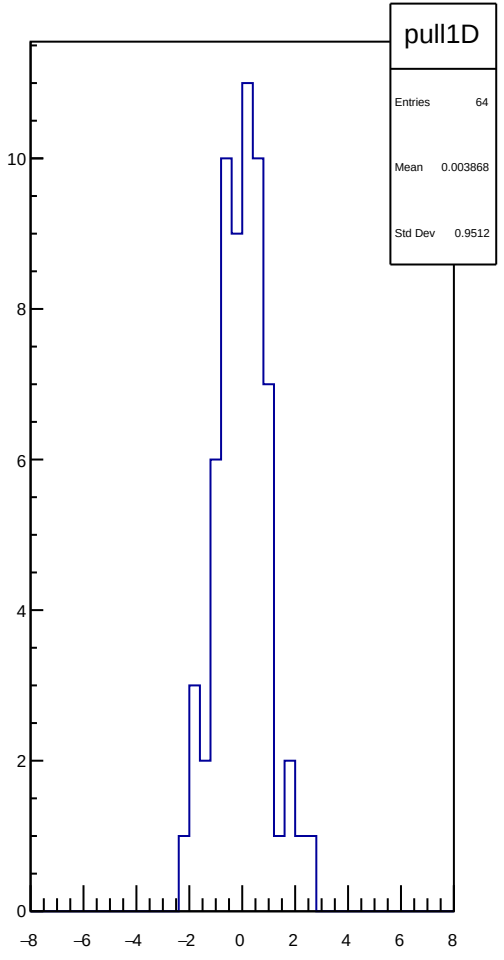

diff_bpm4ecX_rms vs run
χ² / ndf 1.048e+04 / 63
p0 1.073e+04 ± 9.788
22000
20000
18000
16000
14000
12000
10000

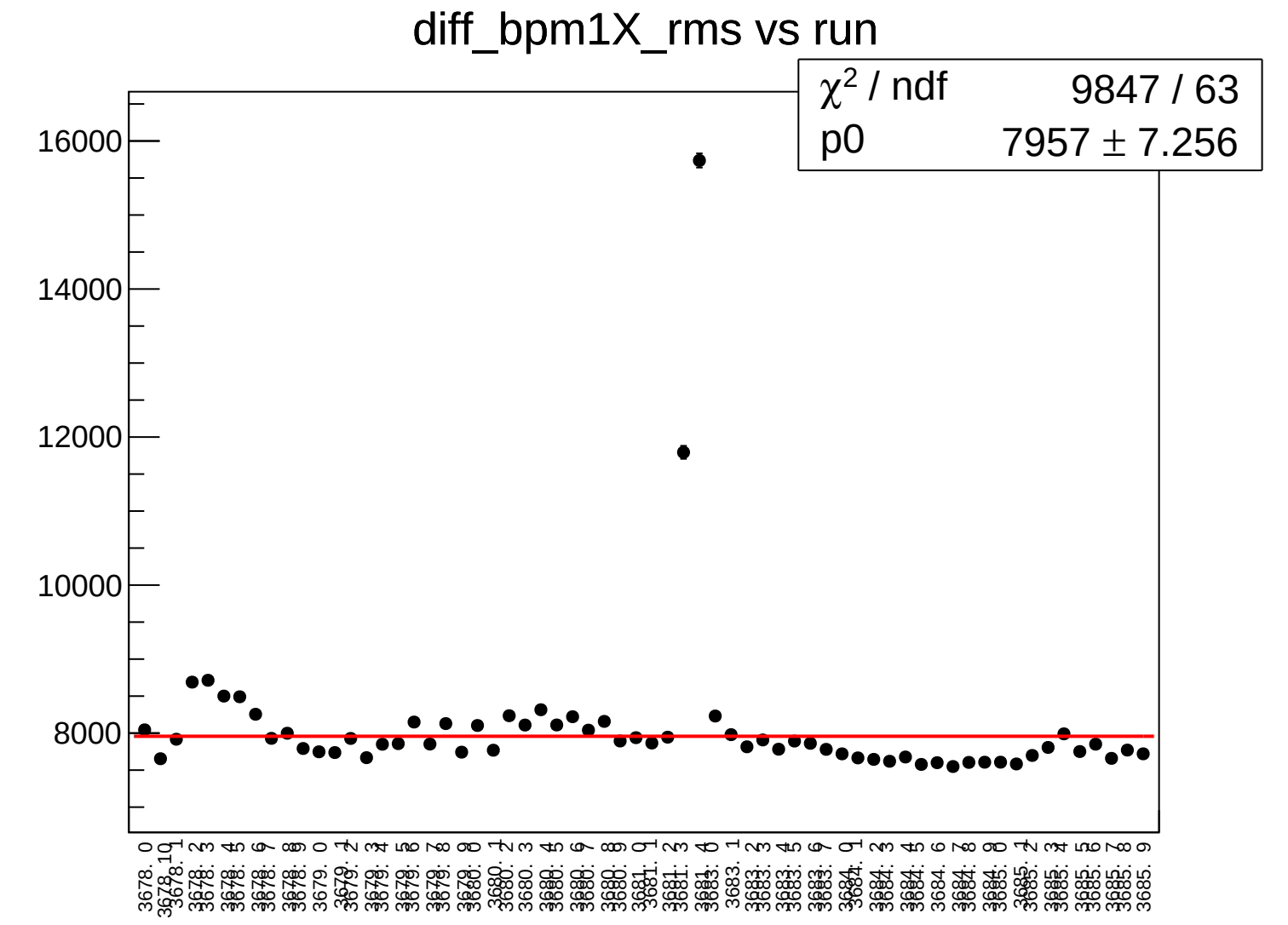

diff_bpm4ecY_mean vs run
χ² / ndf 59.38 / 63
p0 −2.814 ± 6.19
pull
Entries 64
Mean −3110
Std Dev 3138

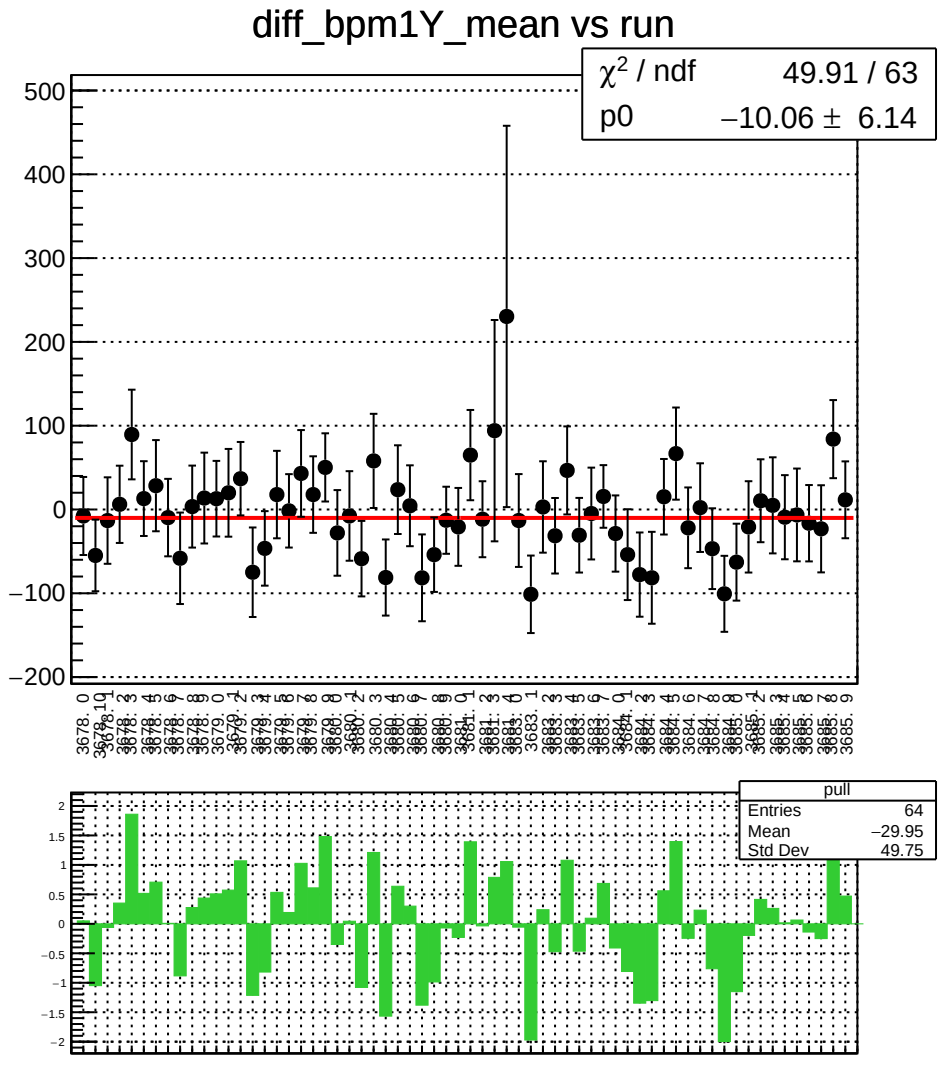

pull1D
Entries 64
Mean 0.0009509
Std Dev 0.9632

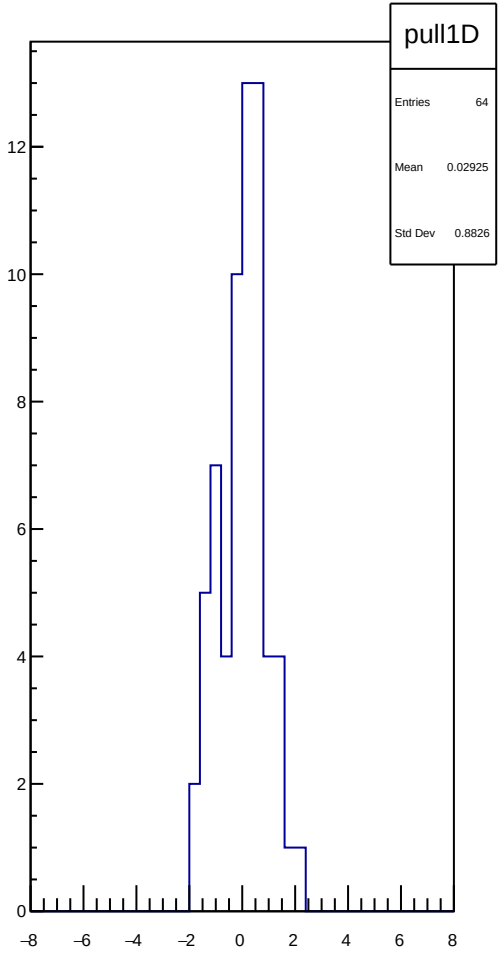

diff_bpm4ecY_rms vs run
χ² / ndf 2.428e+04 / 63
p0 4772 ± 4.377
20000
18000
16000
14000
12000
10000
8000
6000
4000

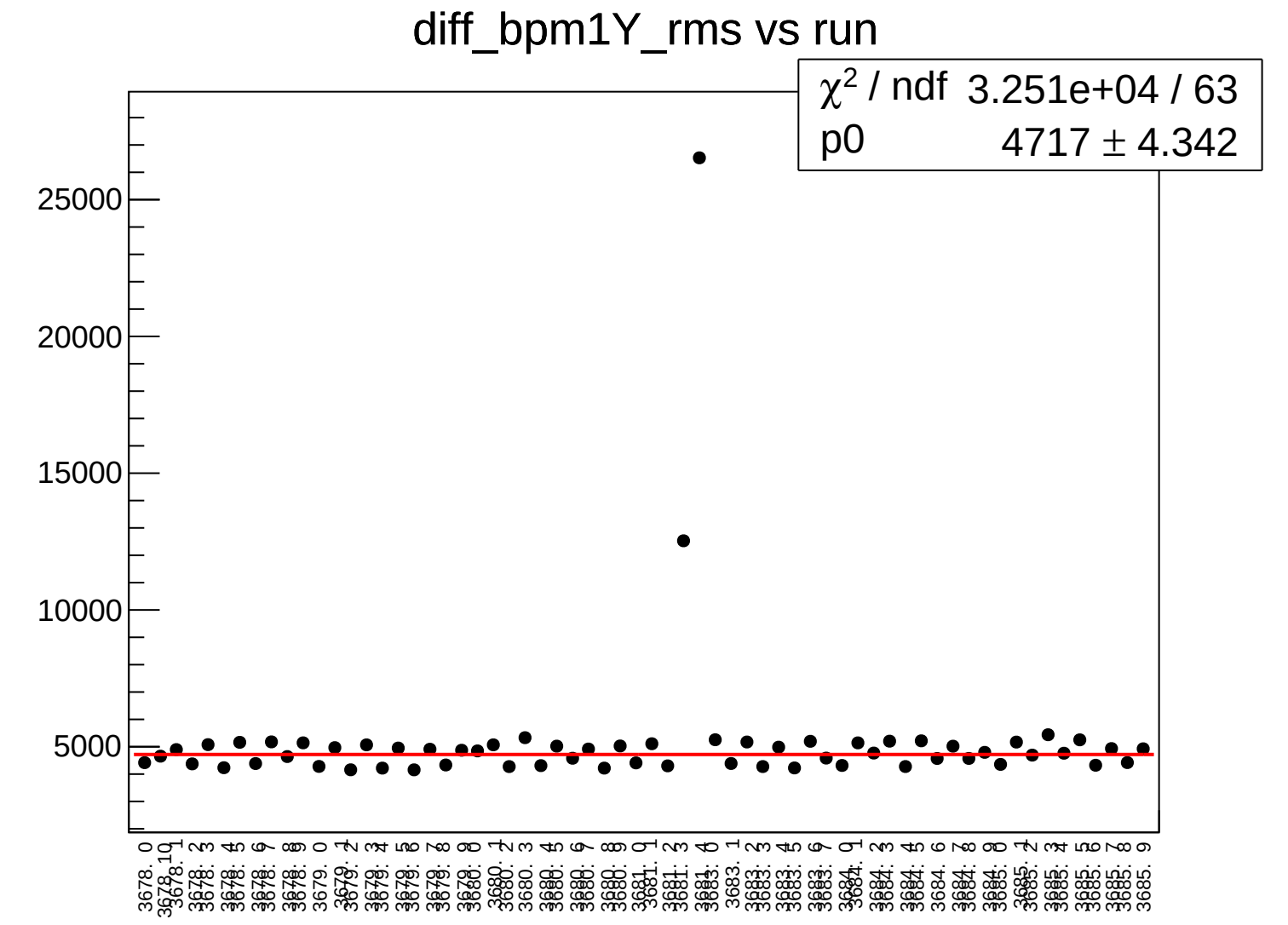

diff_bpm1X_mean vs run
χ² / ndf 57.9 / 63
p0 3.325 ± 10.26
pull
Entries 64
Mean −37.81
Std Dev 78.41

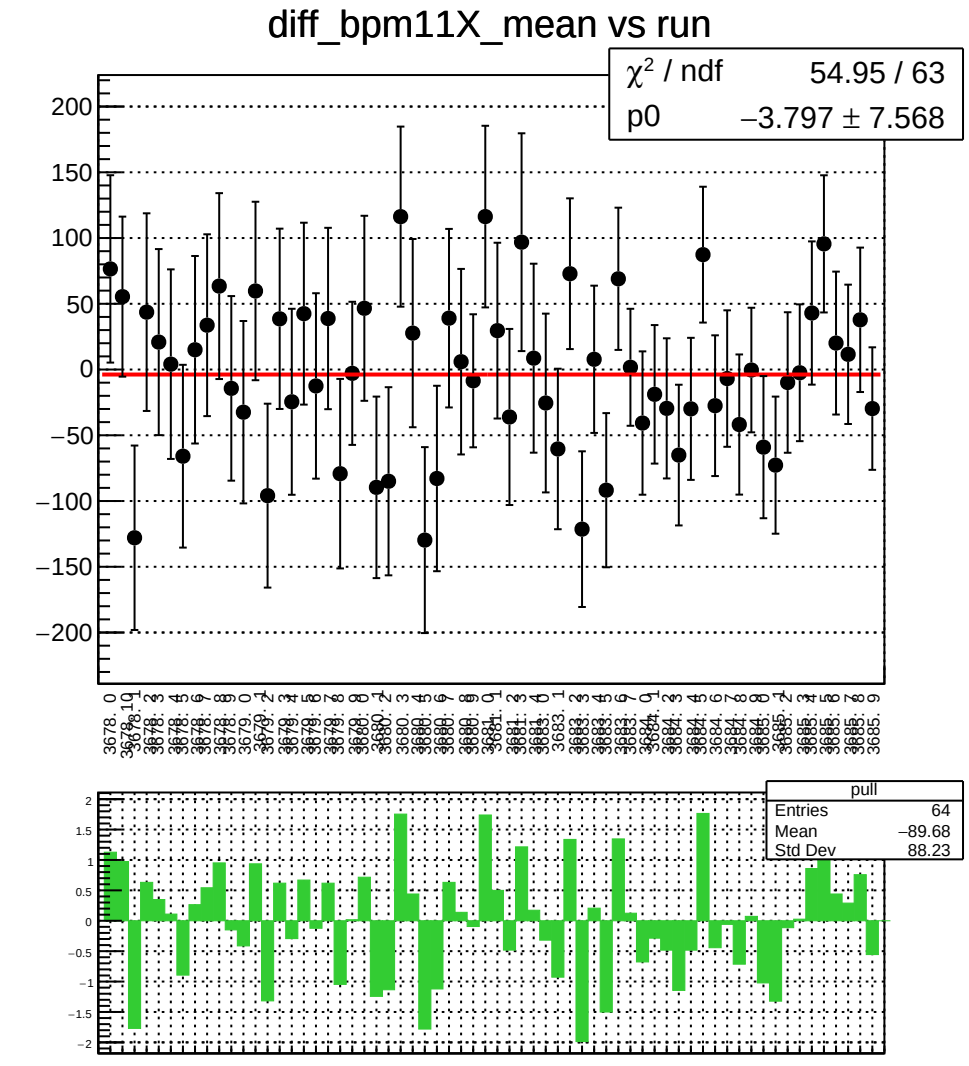

pull1D
Entries 64
Mean 0.003868
Std Dev 0.9512

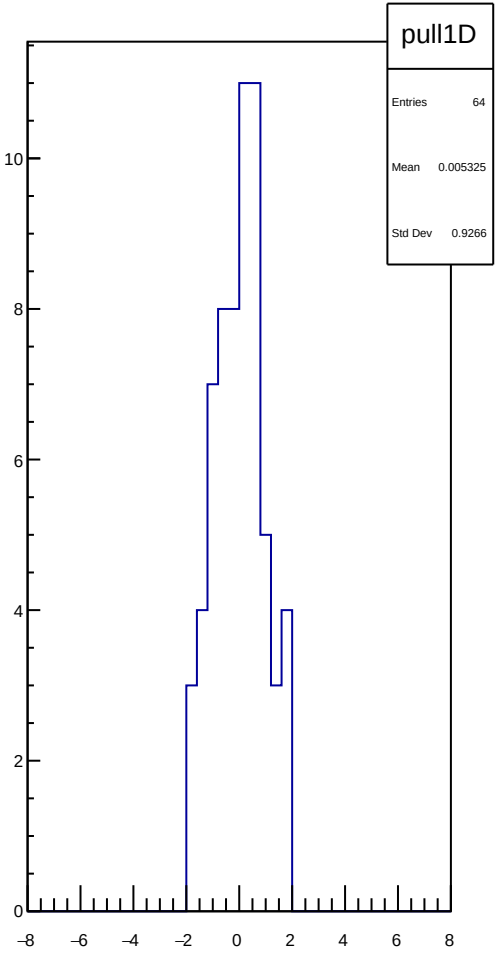

diff_bpm1X_rms vs run
χ² / ndf 9847 / 63
p0 7957 ± 7.256
16000
14000
12000
10000
8000

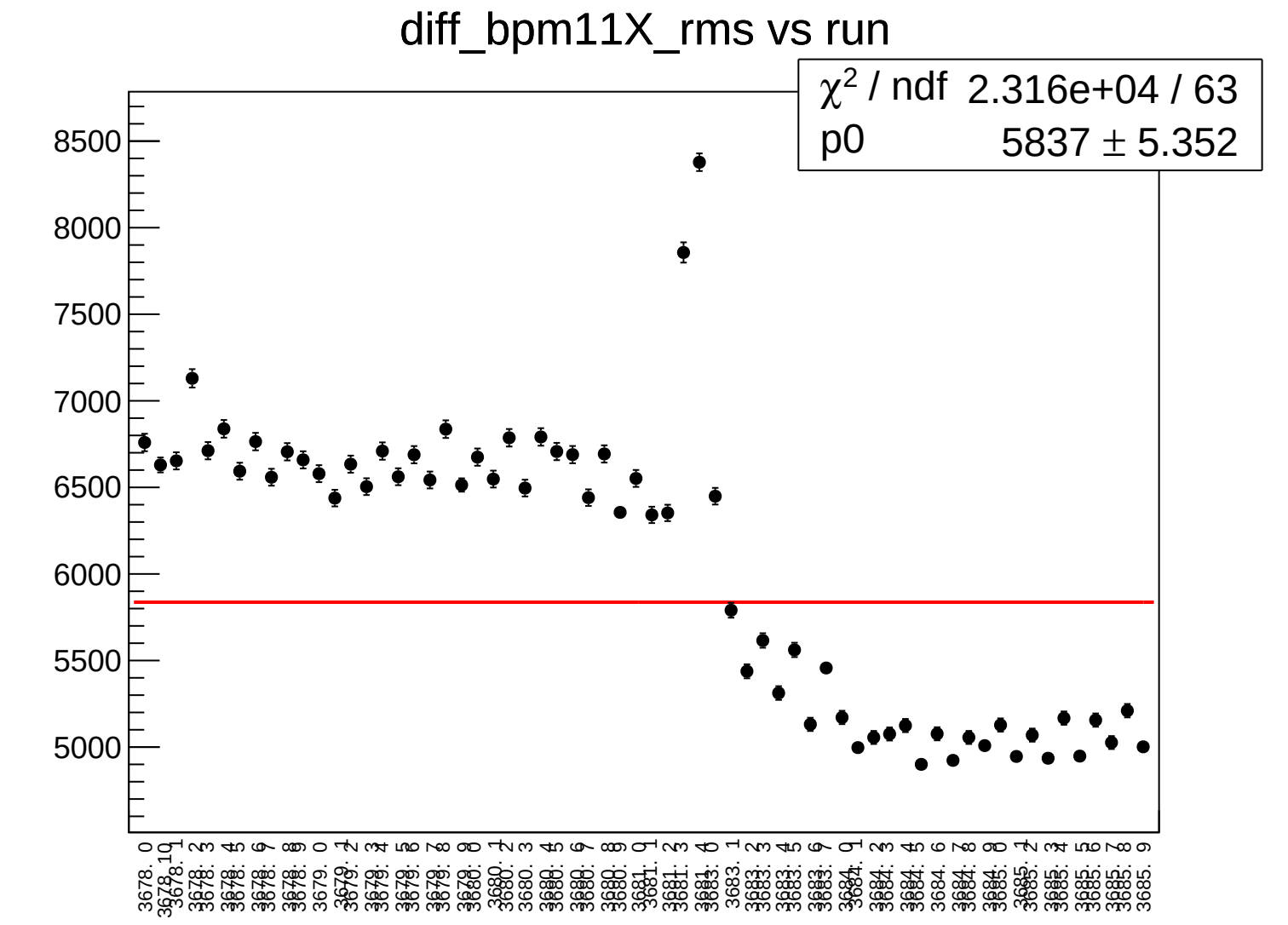

diff_bpm1Y_mean vs run
χ² / ndf 49.91 / 63
p0 −10.06 ± 6.14
pull
Entries 64
Mean −29.95
Std Dev 49.75

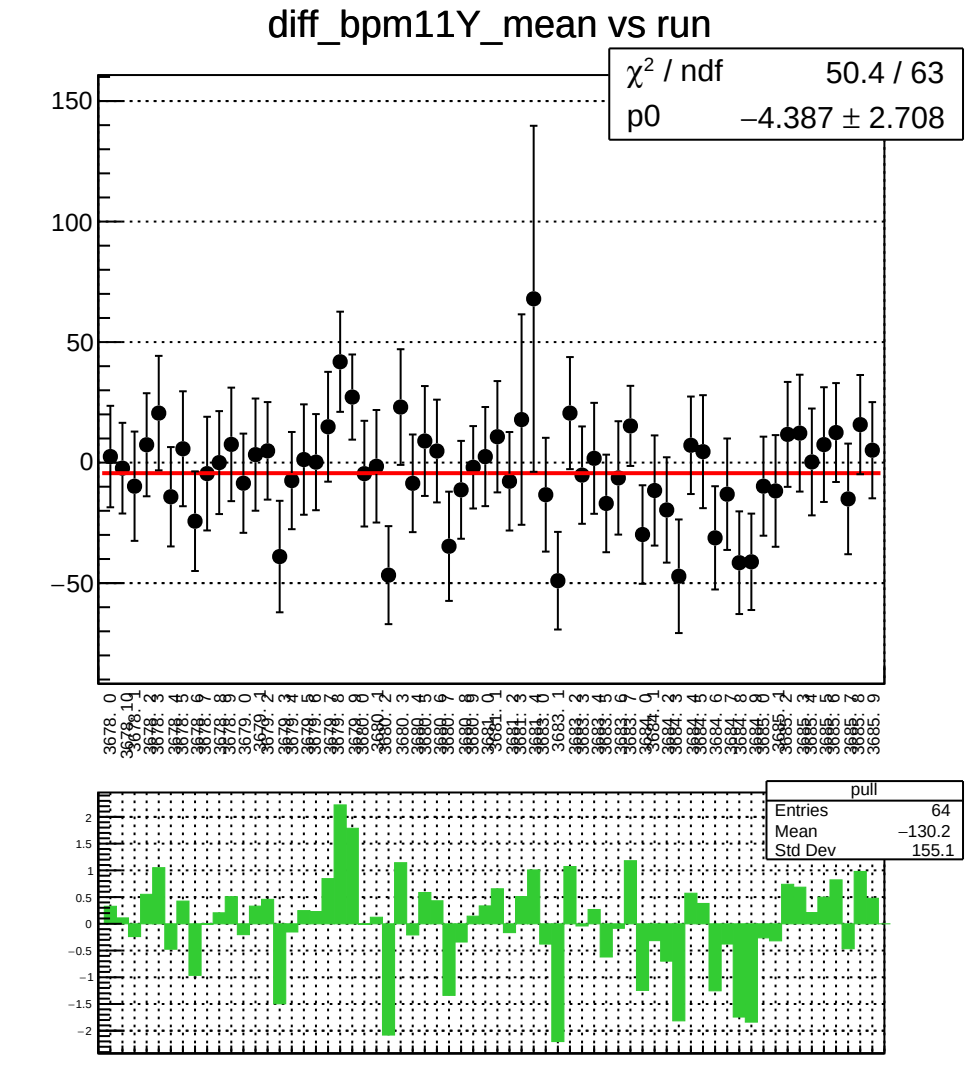

pull1D
Entries 64
Mean 0.02925
Std Dev 0.8826

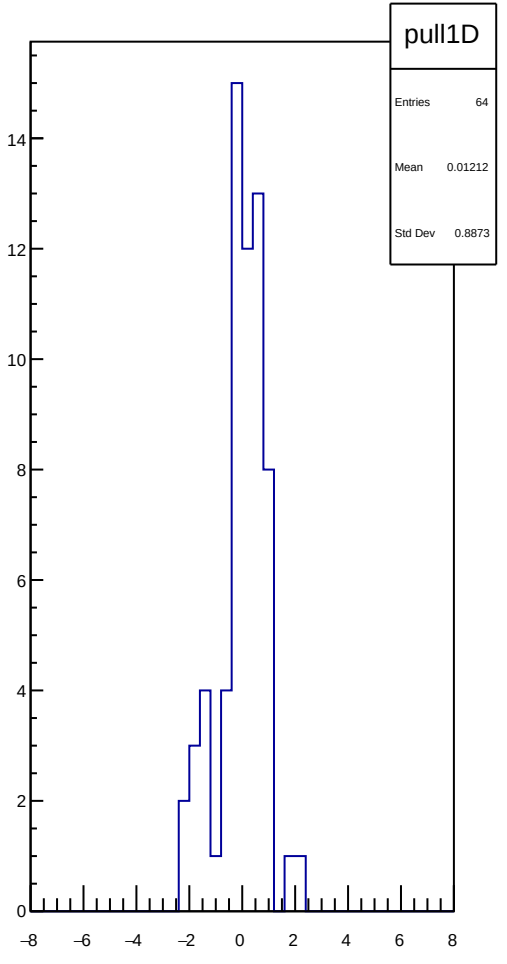

diff_bpm1Y_rms vs run
χ² / ndf 3.251e+04 / 63
p0 4717 ± 4.342
25000
20000
15000
10000
5000

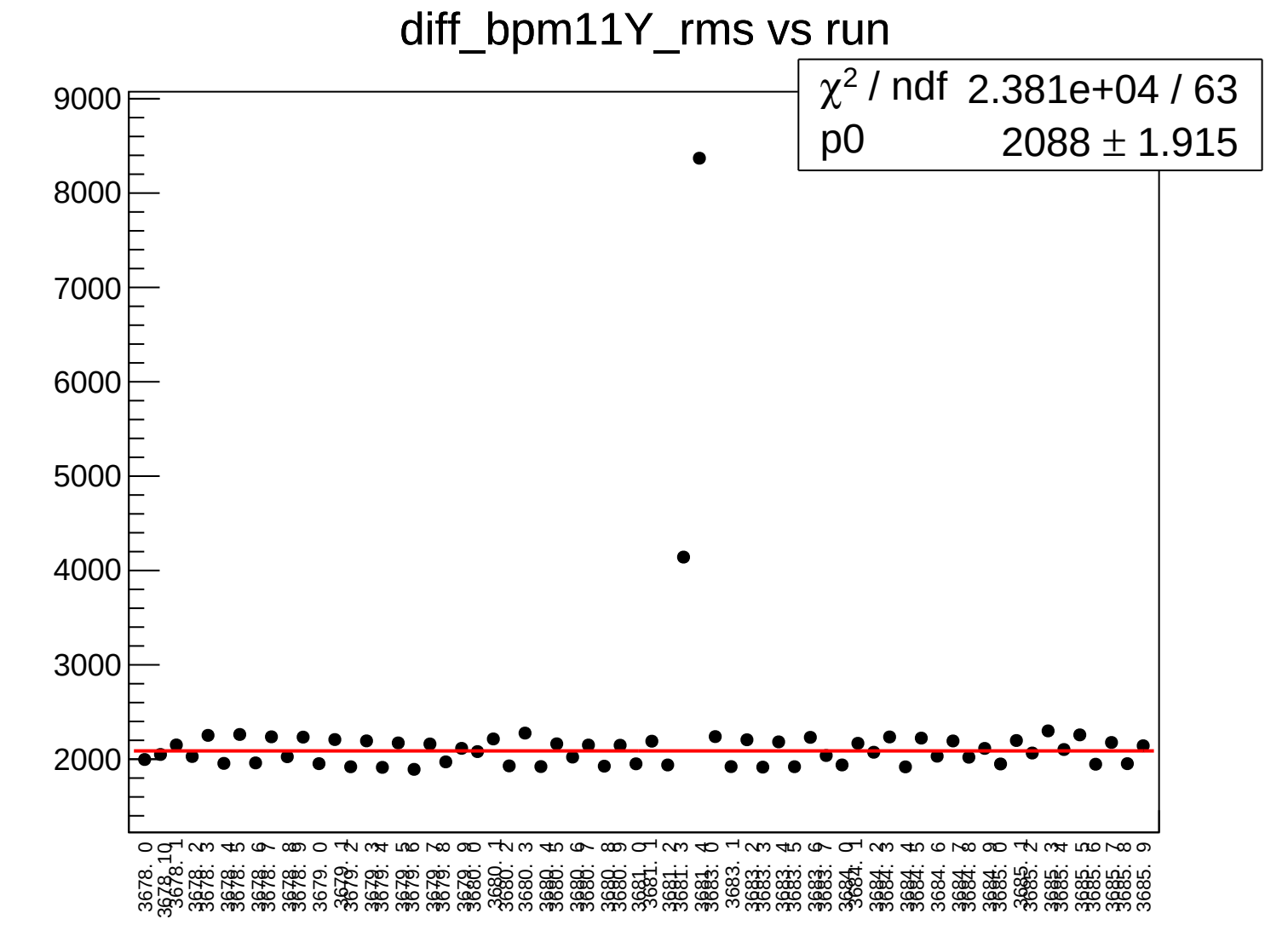

diff_bpm11X_mean vs run
χ² / ndf 54.95 / 63
p0 −3.797 ± 7.568
pull
Entries 64
Mean −89.68
Std Dev 88.23

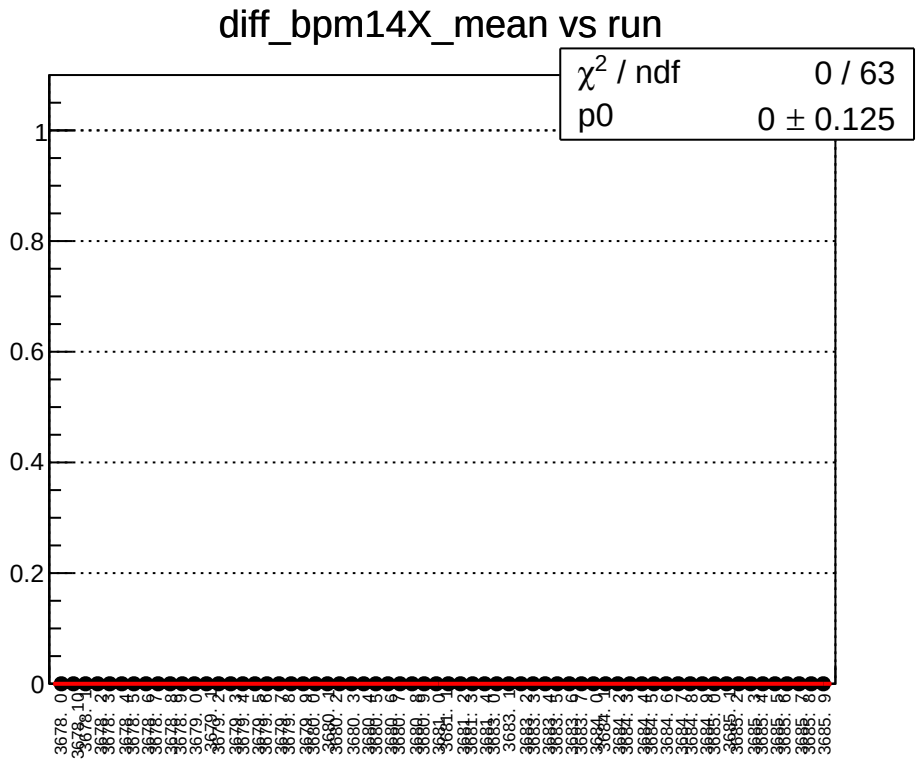

pull1D
Entries 64
Mean 0.005325
Std Dev 0.9266

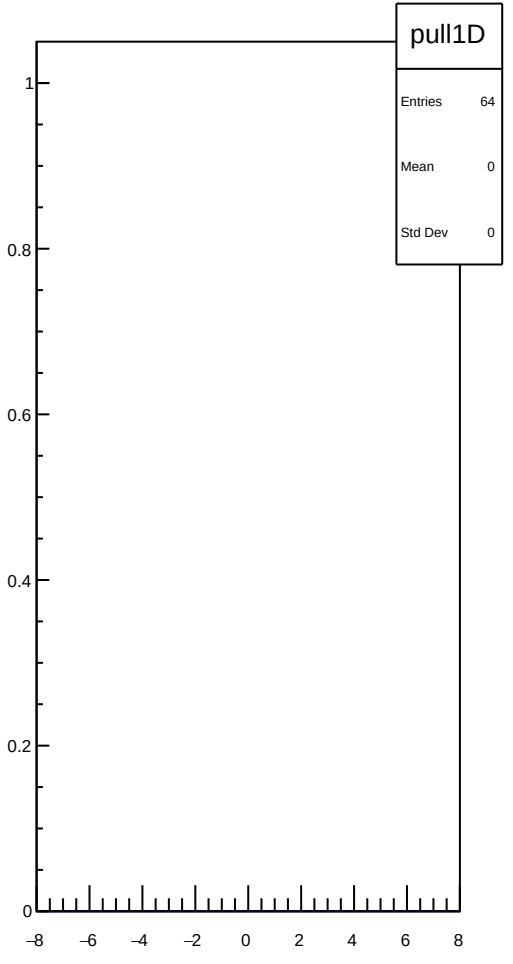

diff_bpm11X_rms vs run
χ² / ndf 2.316e+04 / 63
p0 5837 ± 5.352
8500
8000
7500
7000
6500
6000
5500
5000

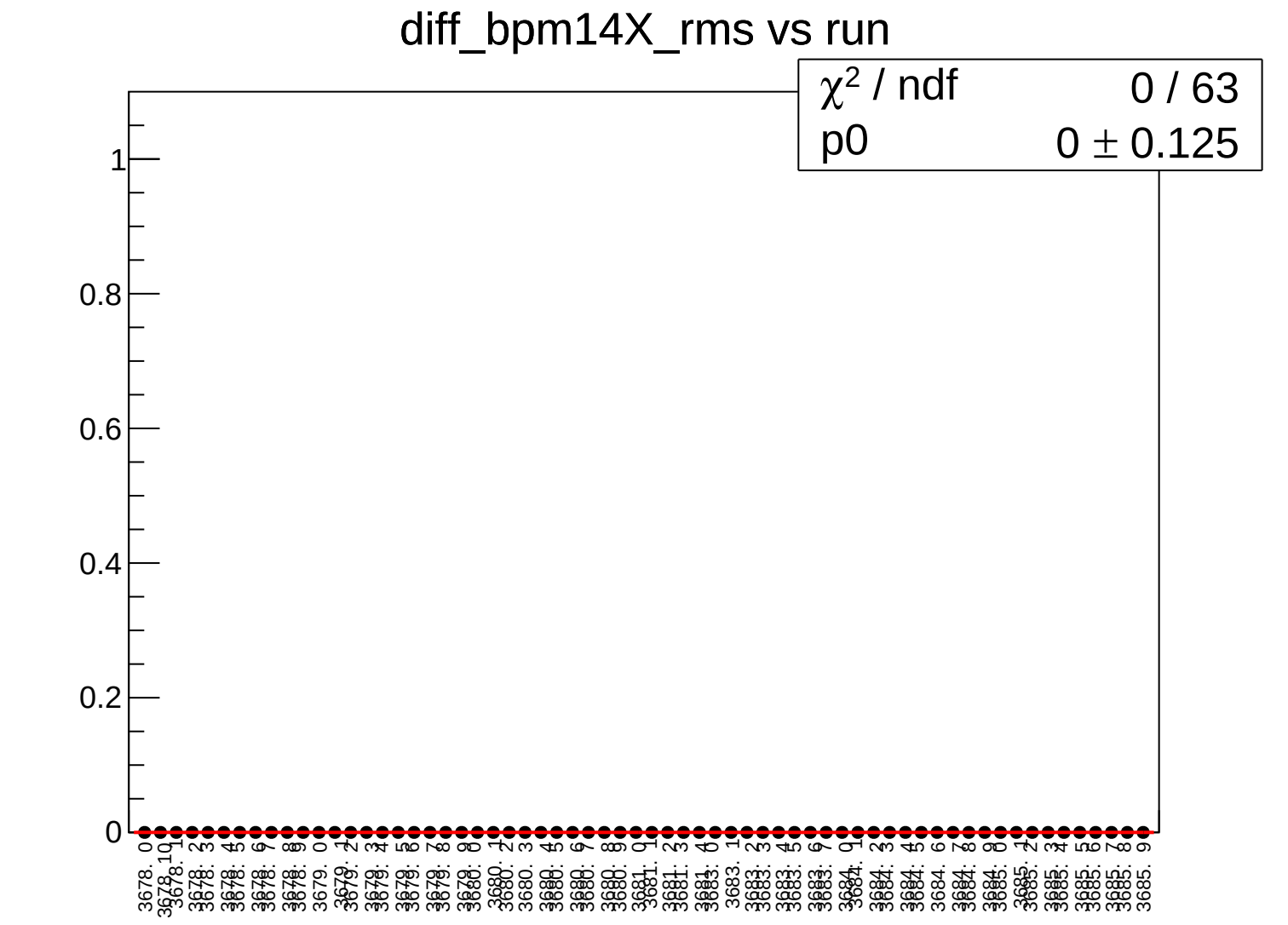

diff_bpm11Y_mean vs run
χ² / ndf 50.4 / 63
p0 −4.387 ± 2.708
150
100
50
0
−50
pull
Entries 64
Mean −130.2
Std Dev 155.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

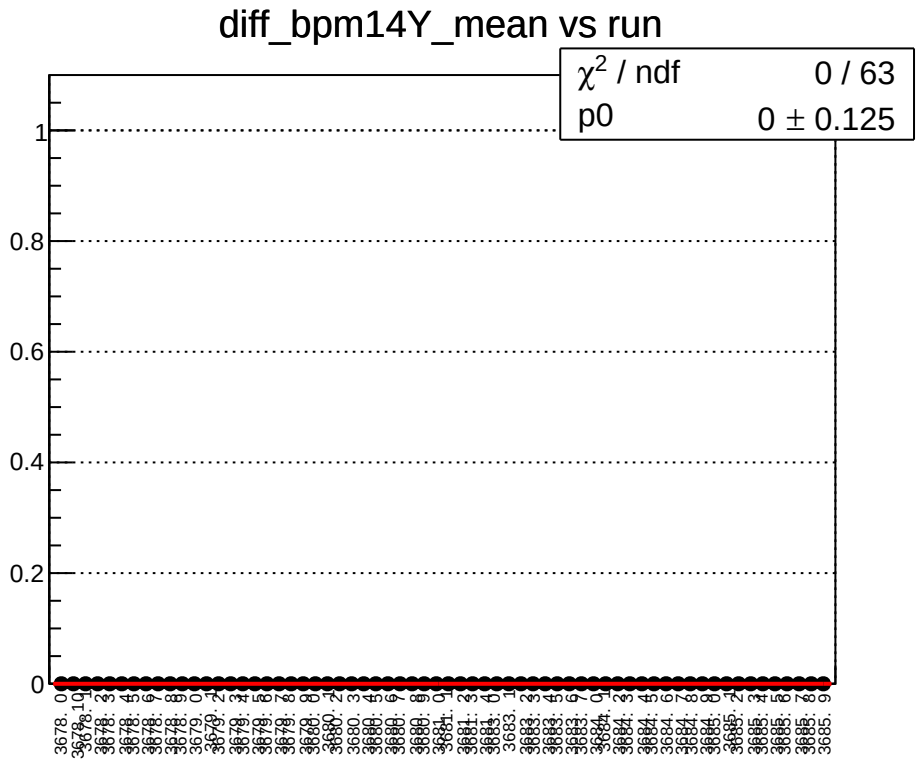

pull1D
Entries 64
Mean 0.01212
Std Dev 0.8873
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

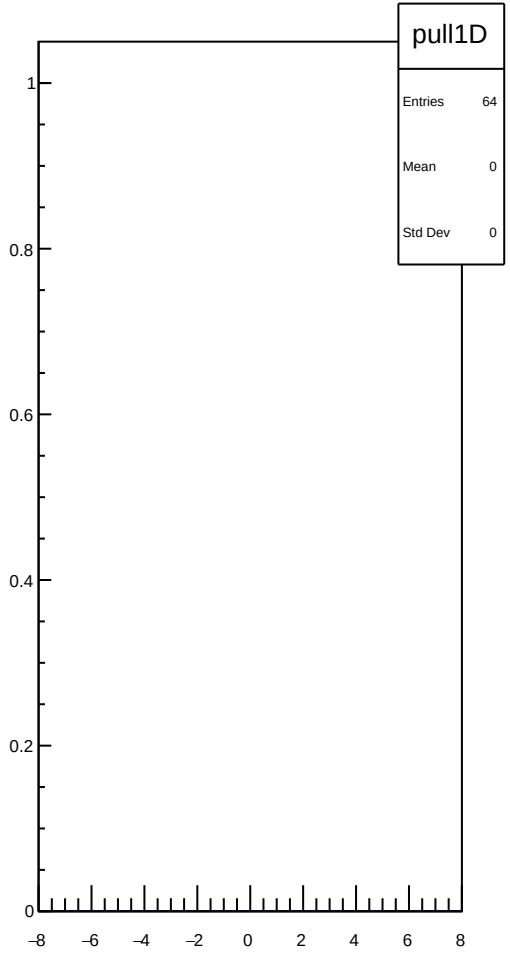

diff_bpm11Y_rms vs run
$\chi^2$ / ndf 2.381e+04 / 63
p0 2088 ± 1.915
9000
8000
7000
6000
5000
4000
3000
2000

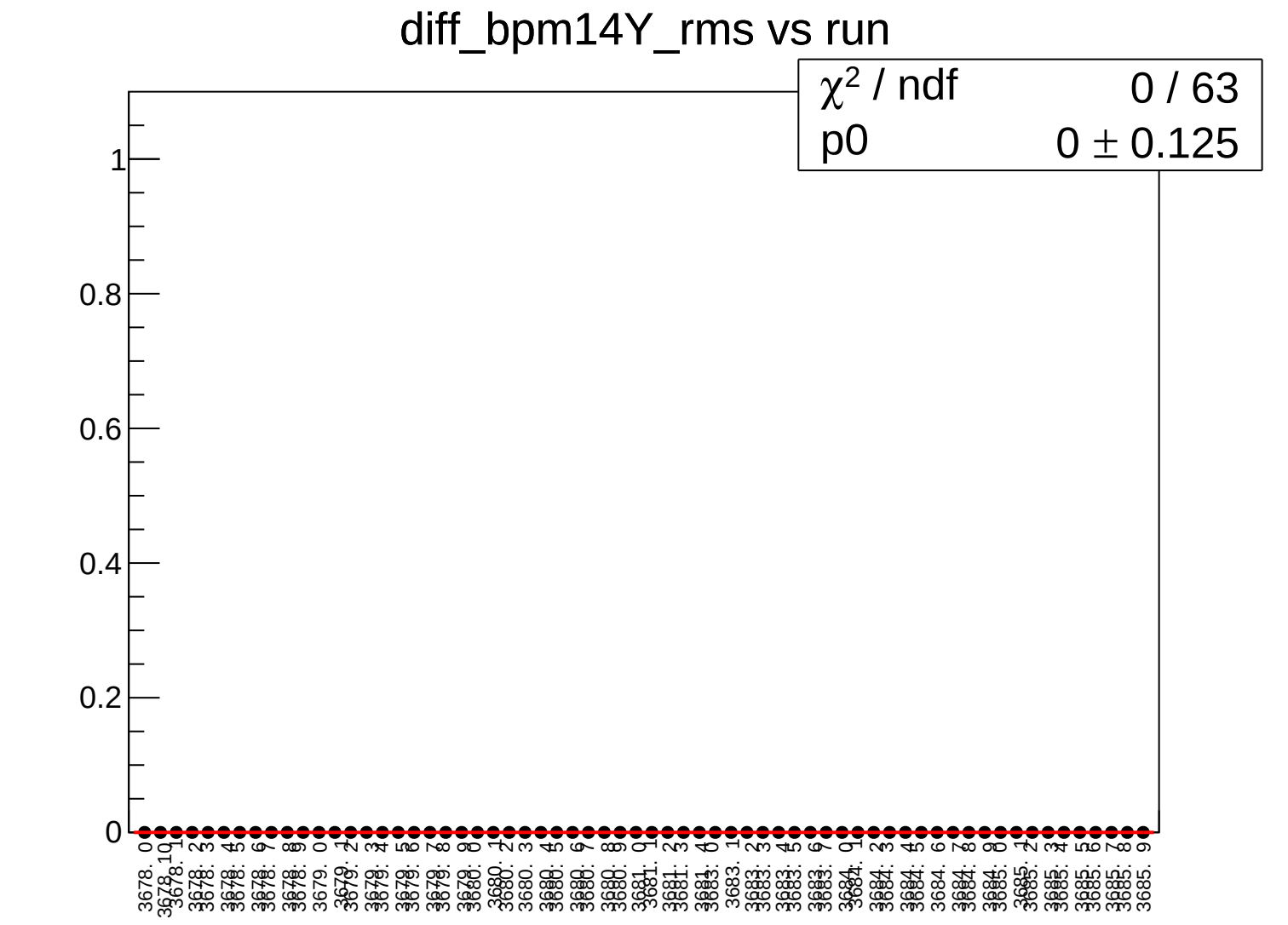

diff_bpm14X_mean vs run
$\chi^2$ / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

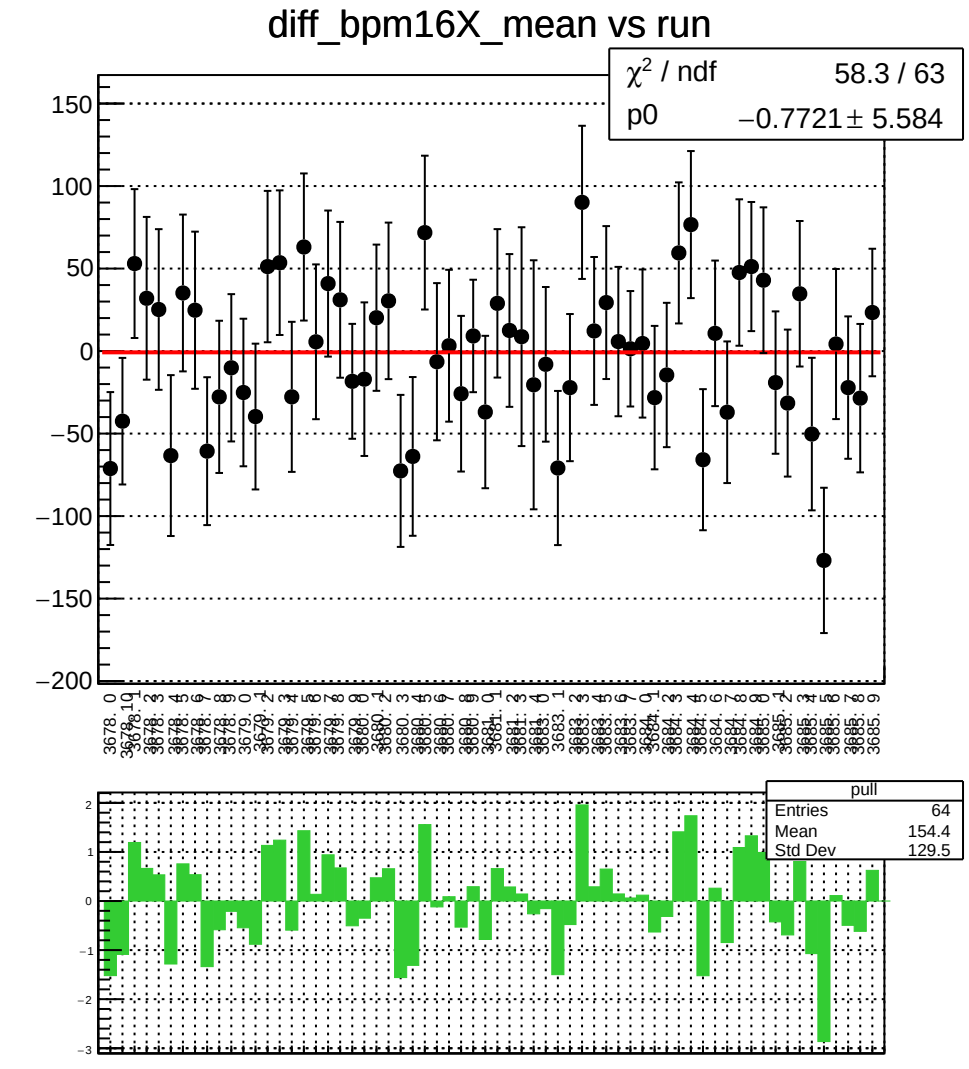

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

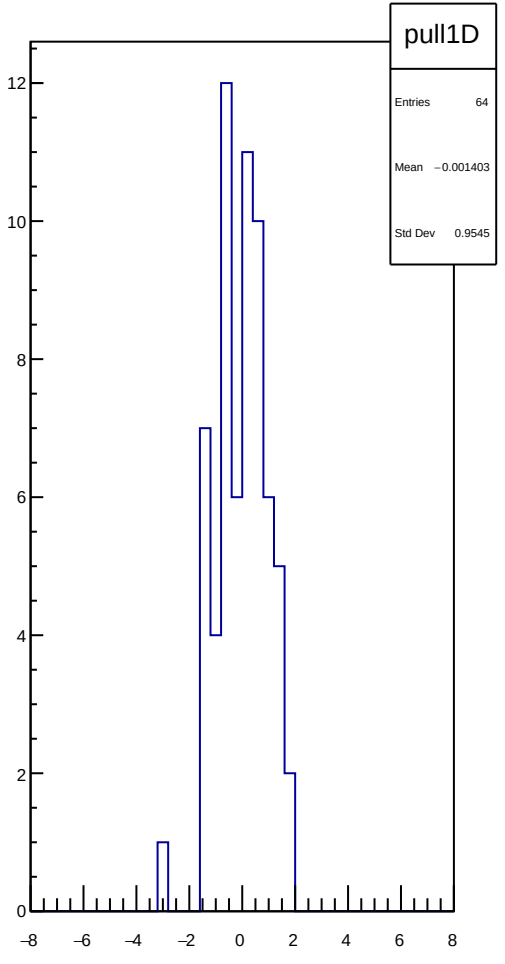

diff_bpm14X_rms vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

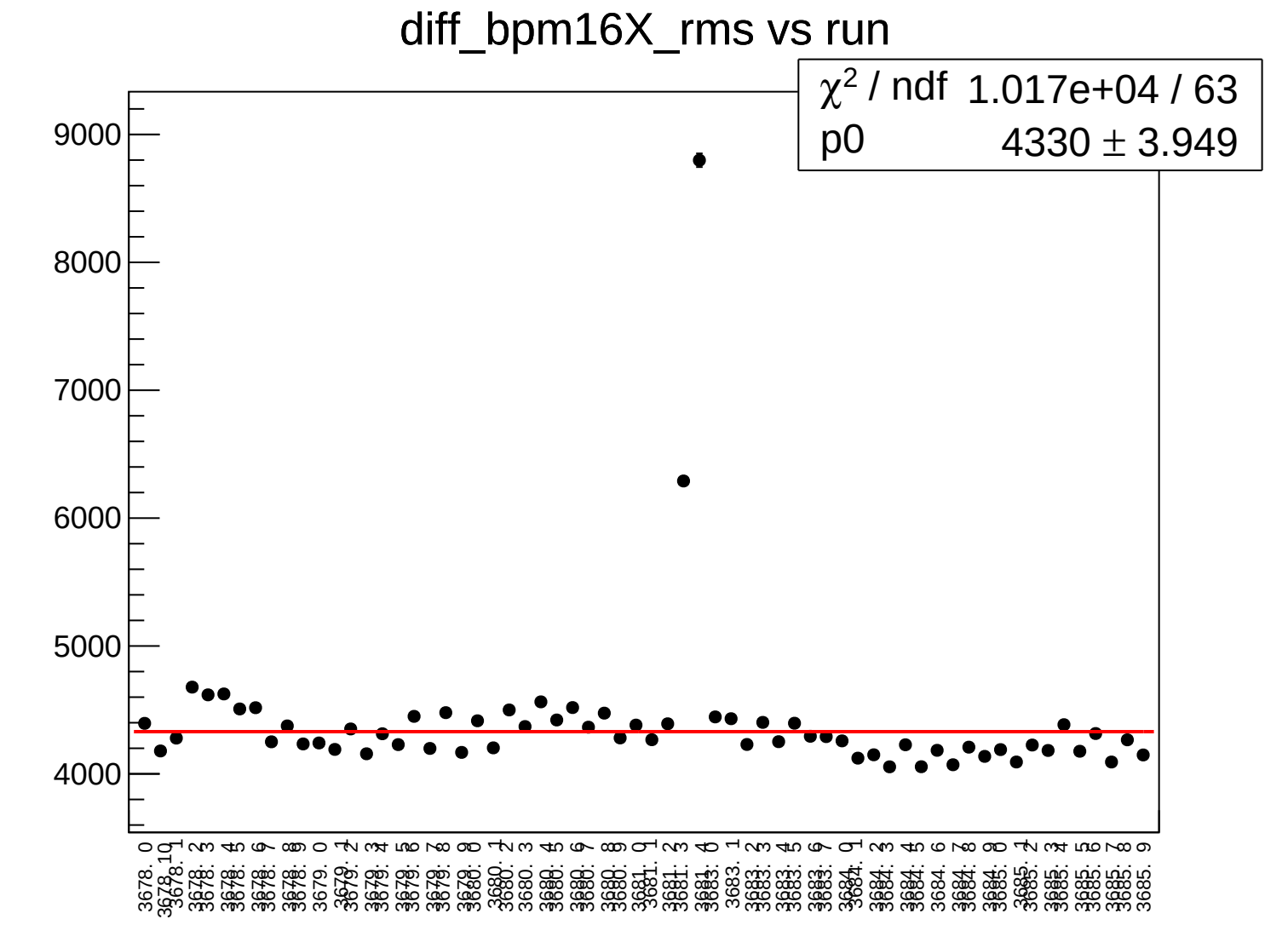

diff_bpm14Y_mean vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

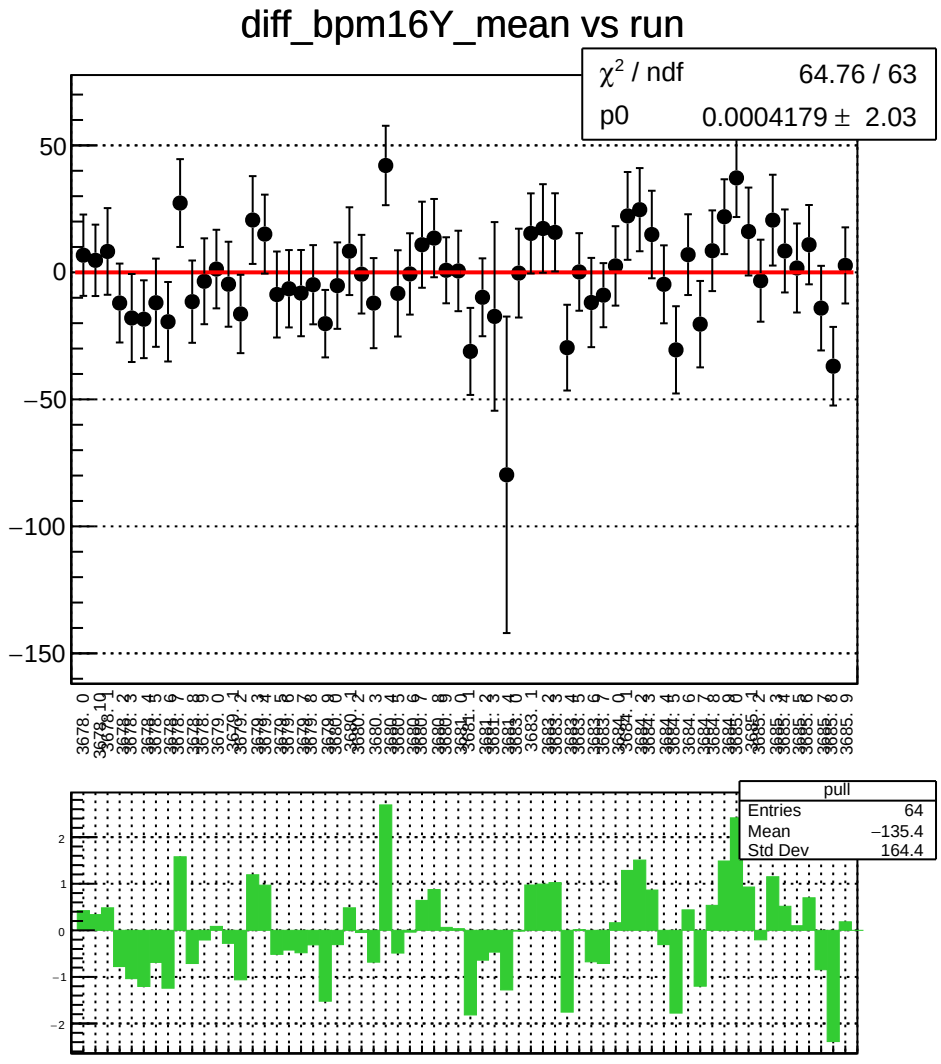

pull1D
Entries 64
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

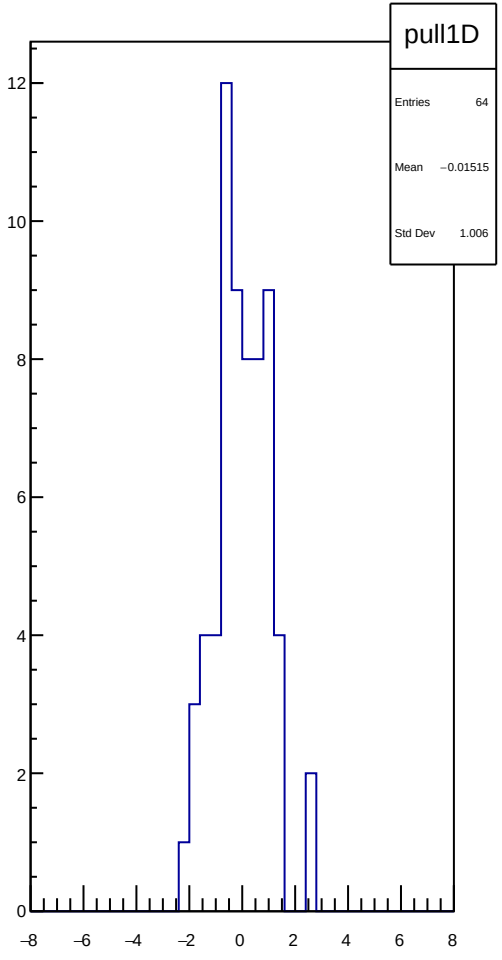

diff_bpm14Y_rms vs run
χ² / ndf 0 / 63
p0 0 ± 0.125
1
0.8
0.6
0.4
0.2
0

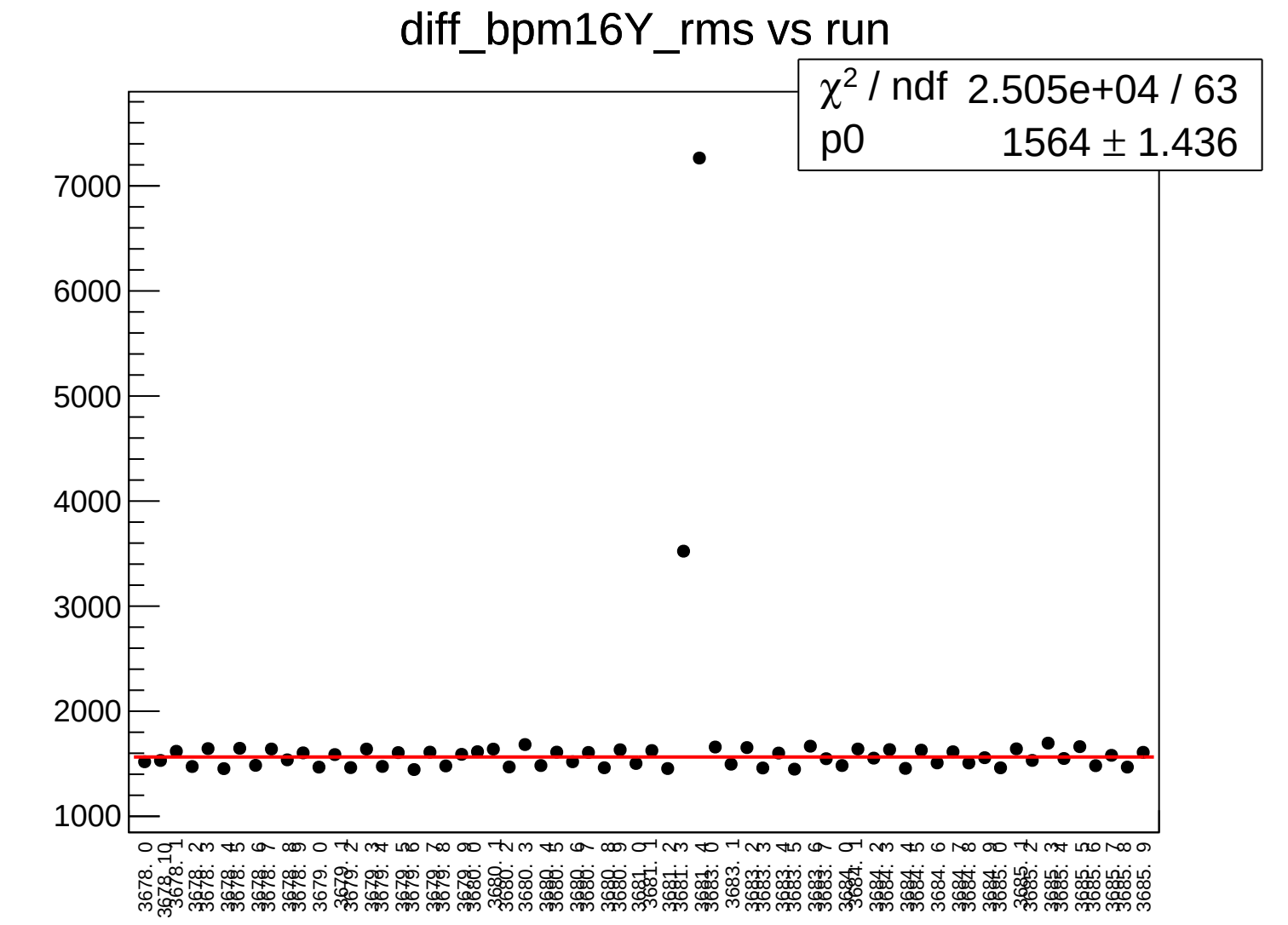

diff_bpm16X_mean vs run
χ² / ndf 58.3 / 63
p0 −0.7721 ± 5.584
pull
Entries 64
Mean 154.4
Std Dev 129.5

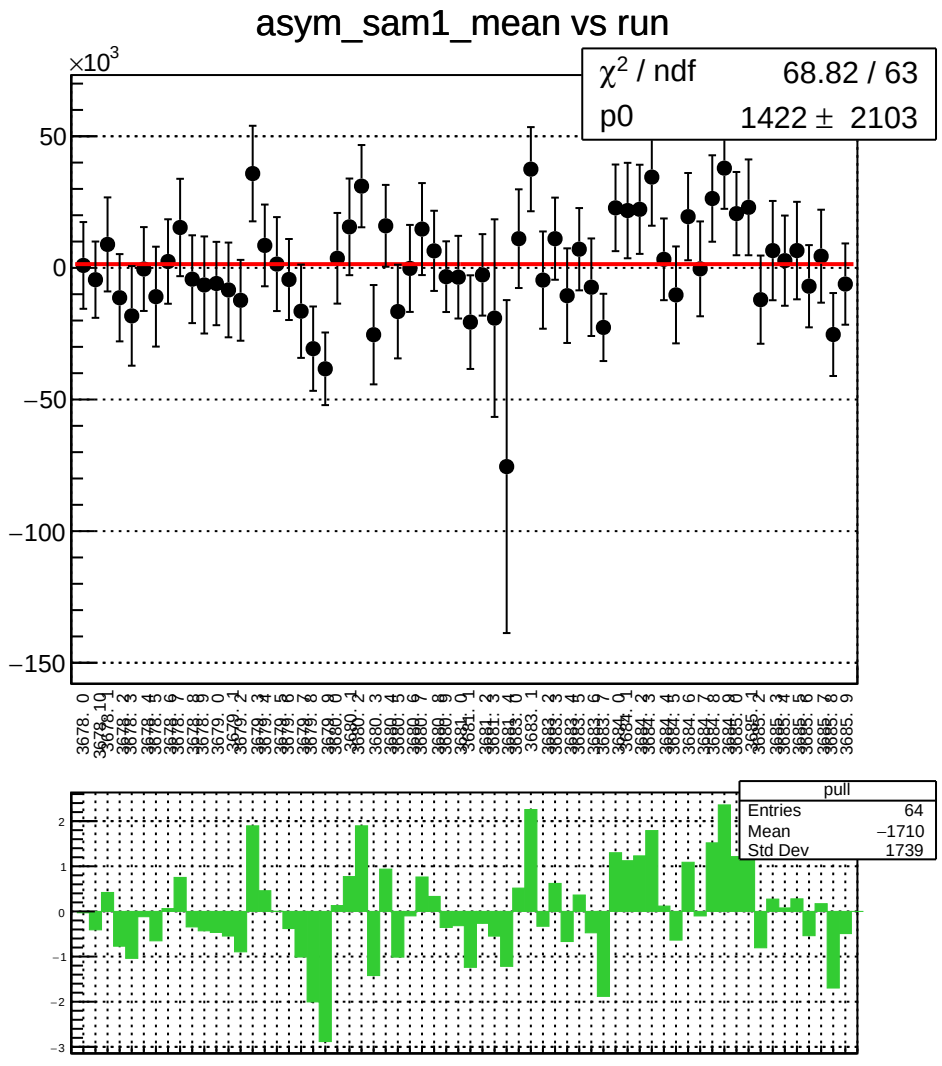

pull1D
Entries 64
Mean −0.001403
Std Dev 0.9545

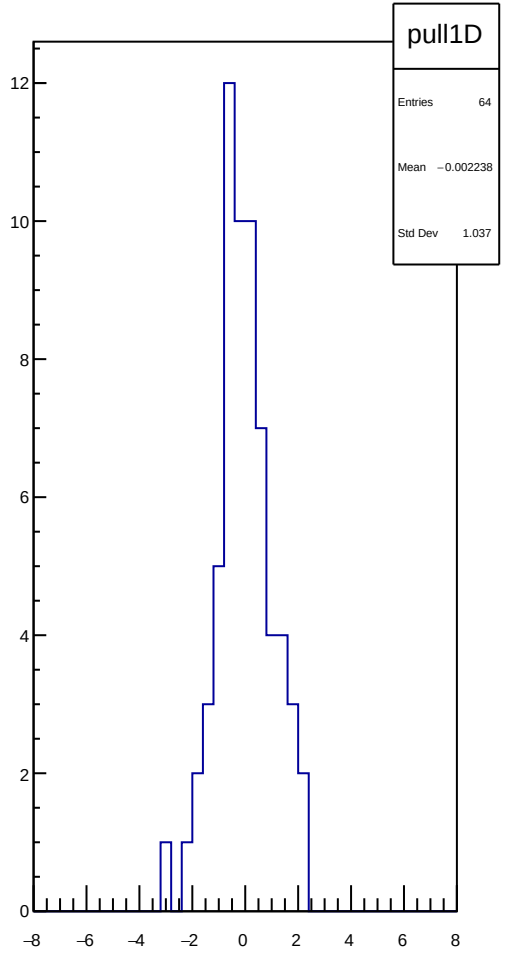

diff_bpm16X_rms vs run
χ² / ndf 1.017e+04 / 63
p0 4330 ± 3.949
9000
8000
7000
6000
5000
4000

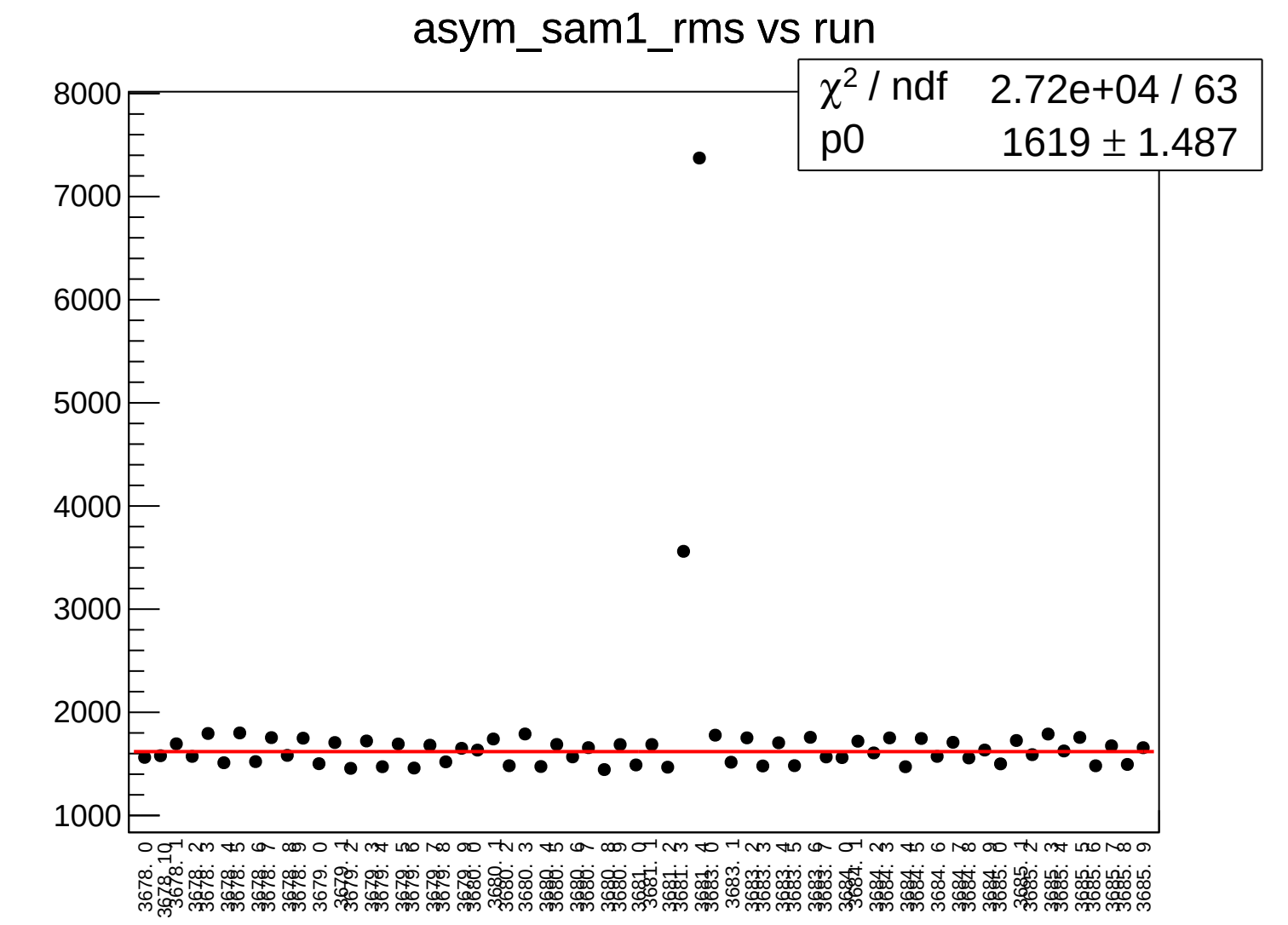

diff_bpm16Y_mean vs run
χ² / ndf 64.76 / 63
p0 0.0004179 ± 2.03
pull
Entries 64
Mean −135.4
Std Dev 164.4

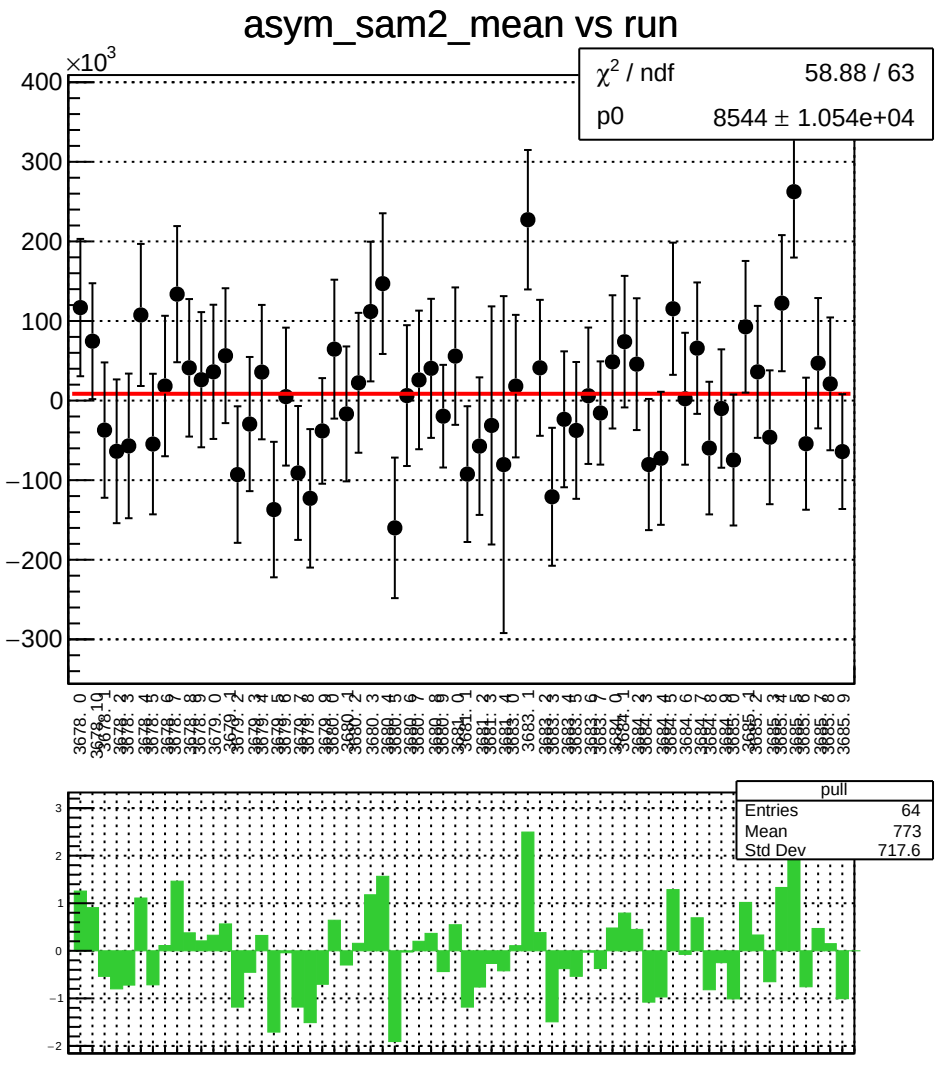

pull1D
Entries 64
Mean −0.01515
Std Dev 1.006

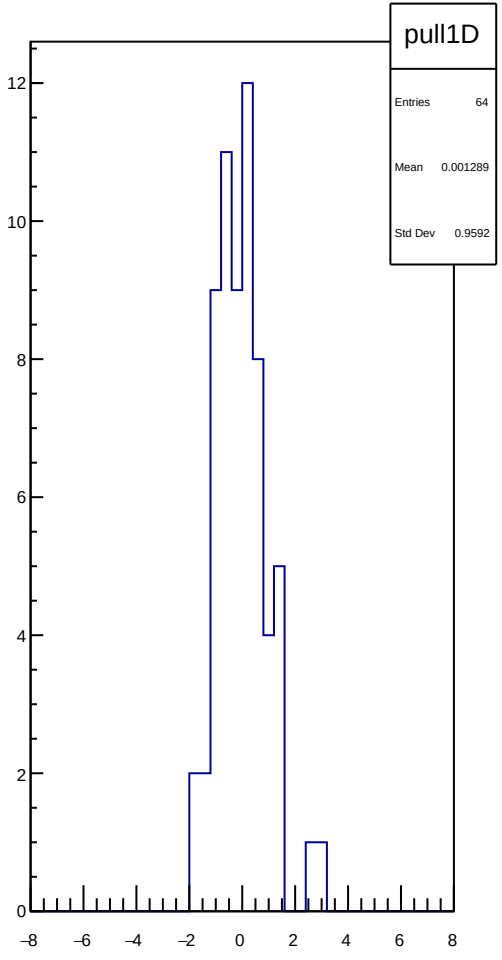

diff_bpm16Y_rms vs run
$\chi^2$ / ndf 2.505e+04 / 63
p0 1564 ± 1.436
7000
6000
5000
4000
3000
2000
1000

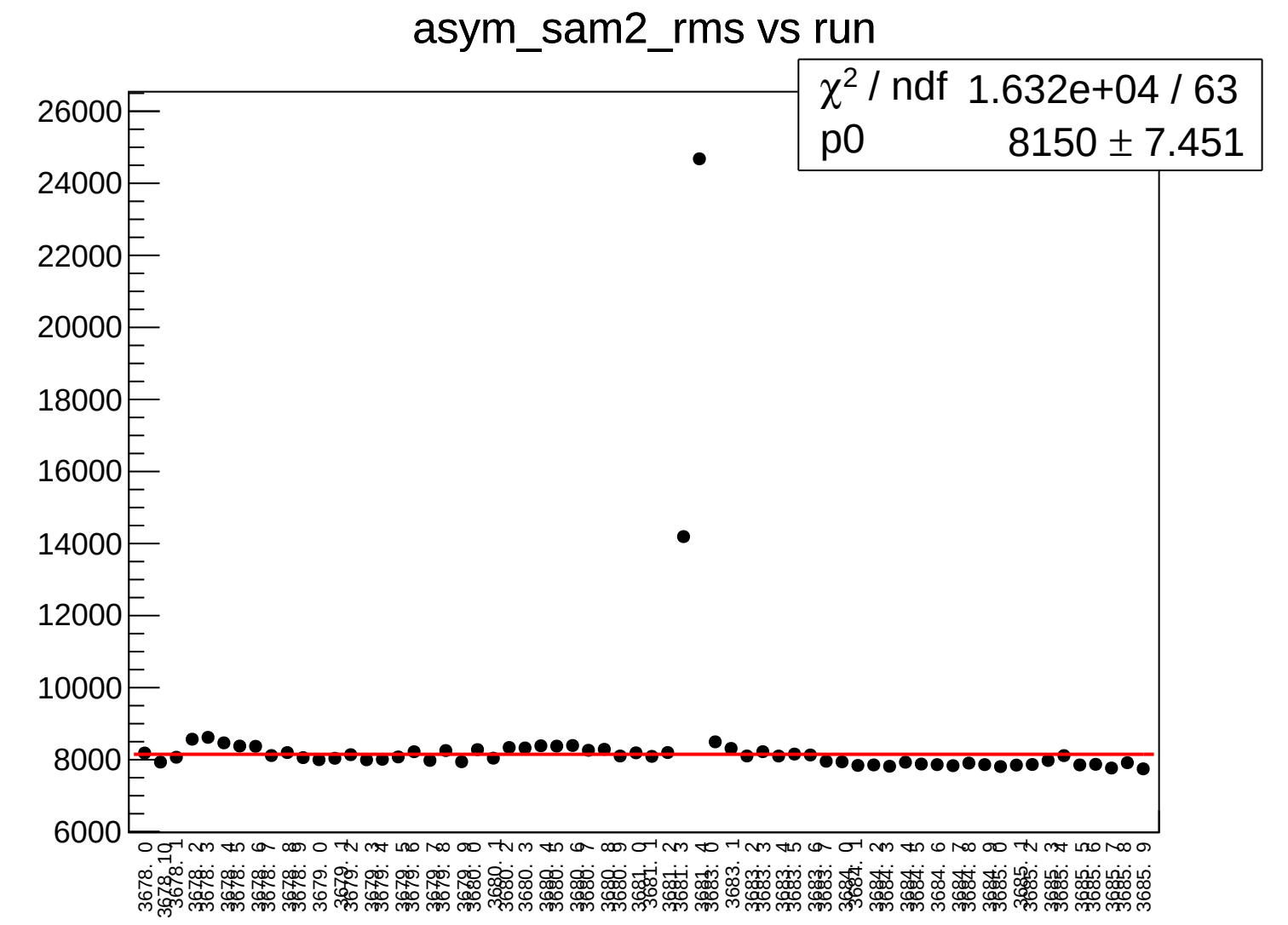

asym_sam1_mean vs run
×10^3
χ^2 / ndf 68.82 / 63
p0 1422 ± 2103
50
0
−50
−100
−150
pull
Entries 64
Mean −1710
Std Dev 1739
2
1
0
−1
−2
−3

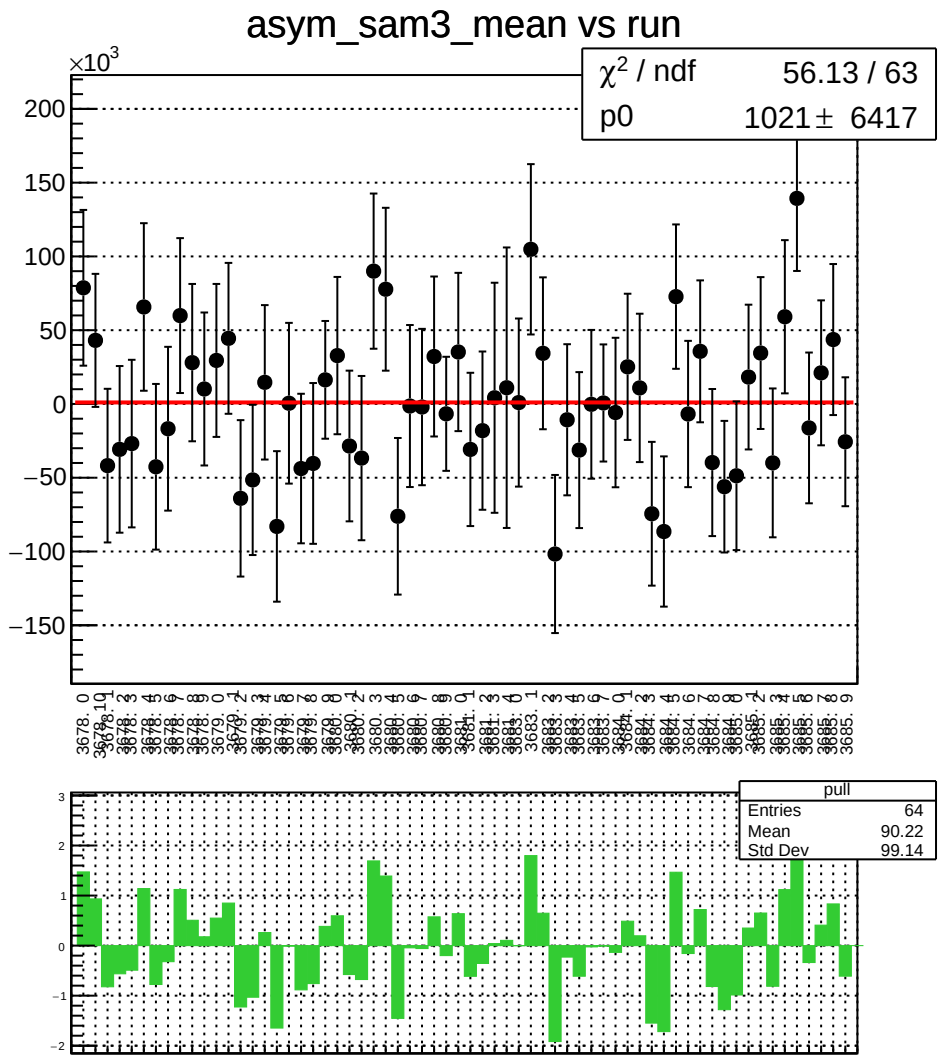

pull1D
Entries 64
Mean −0.002238
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

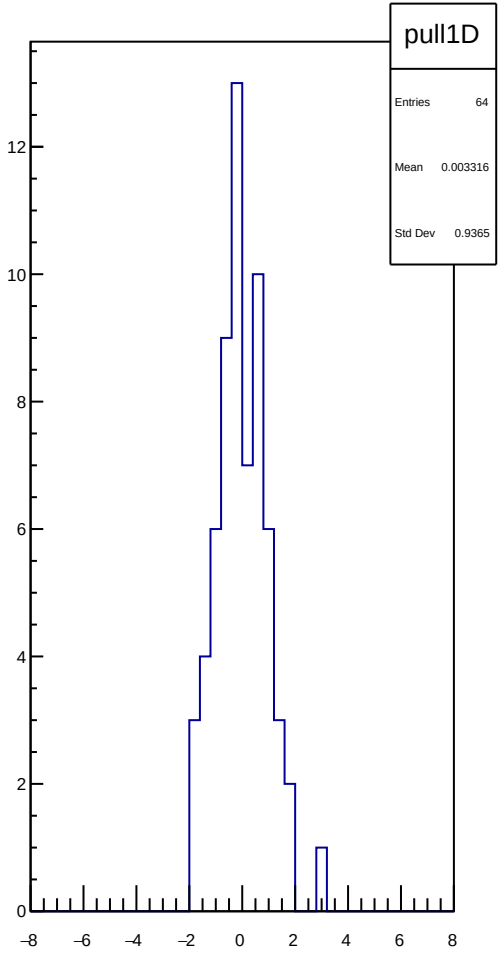

asym_sam1_rms vs run
χ² / ndf 2.72e+04 / 63
p0 1619 ± 1.487
8000
7000
6000
5000
4000
3000
2000
1000

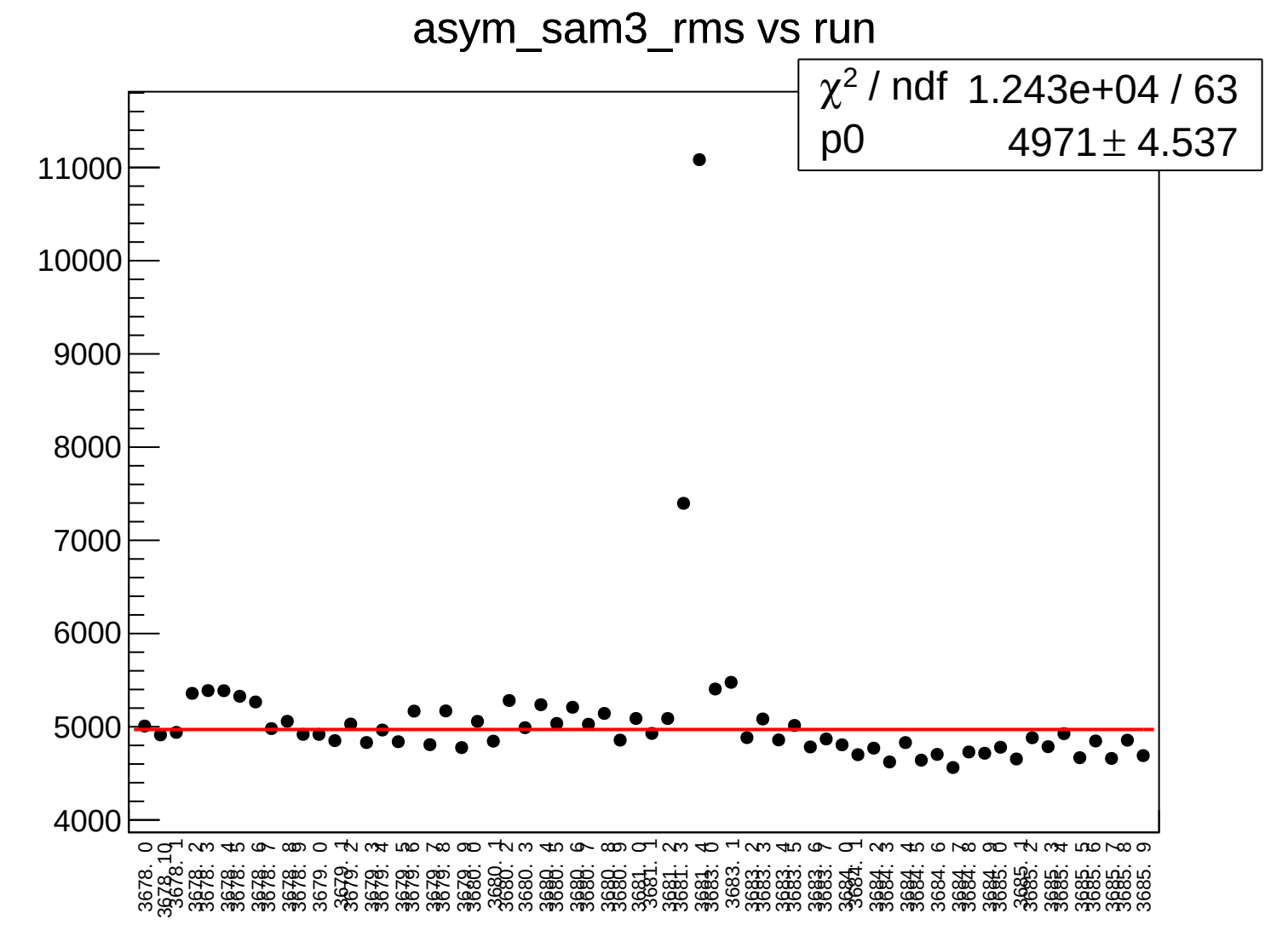

asym_sam2_mean vs run
×10^3
χ² / ndf 58.88 / 63
p0 8544 ± 1.054e+04
pull
Entries 64
Mean 773
Std Dev 717.6

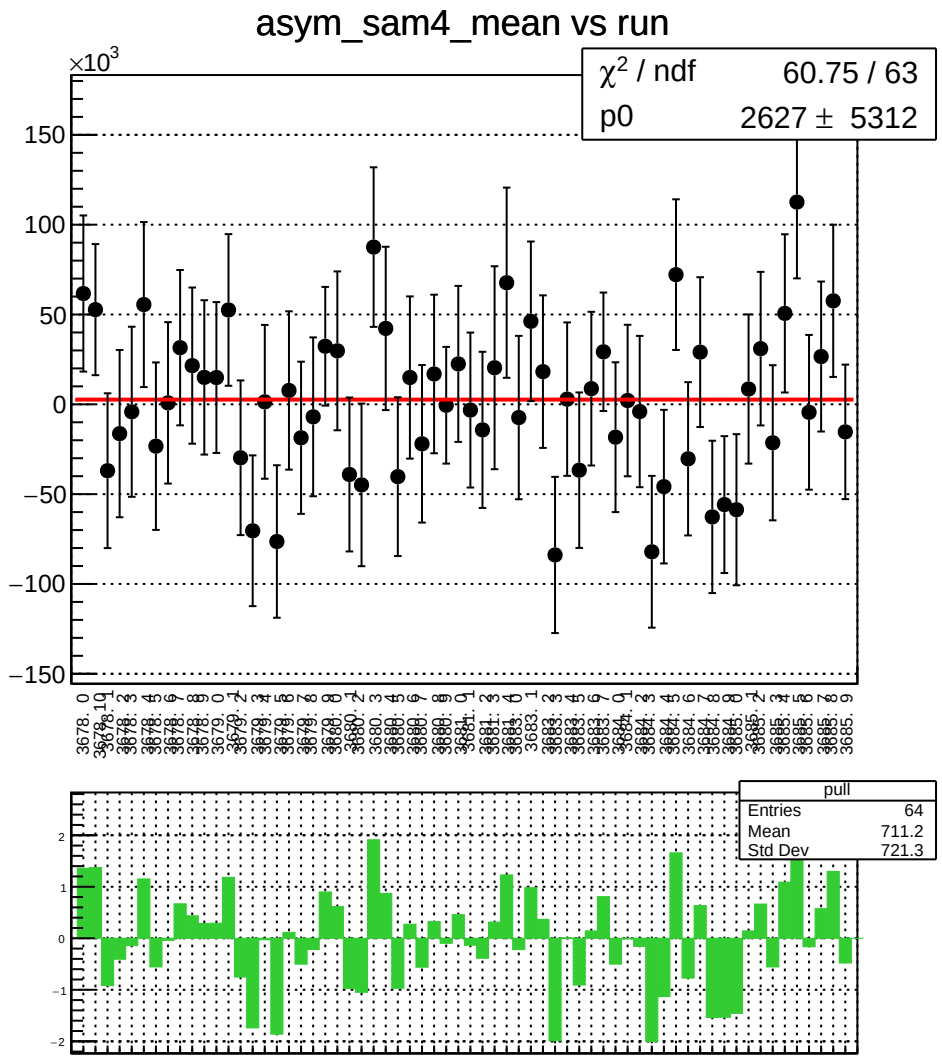

pull1D
Entries 64
Mean 0.001289
Std Dev 0.9592

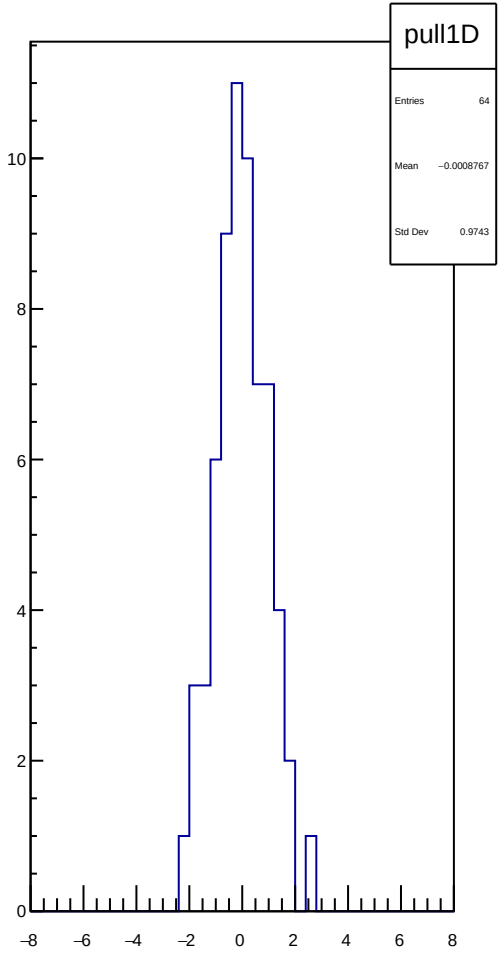

asym_sam2_rms vs run
χ² / ndf 1.632e+04 / 63
p0 8150 ± 7.451
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000

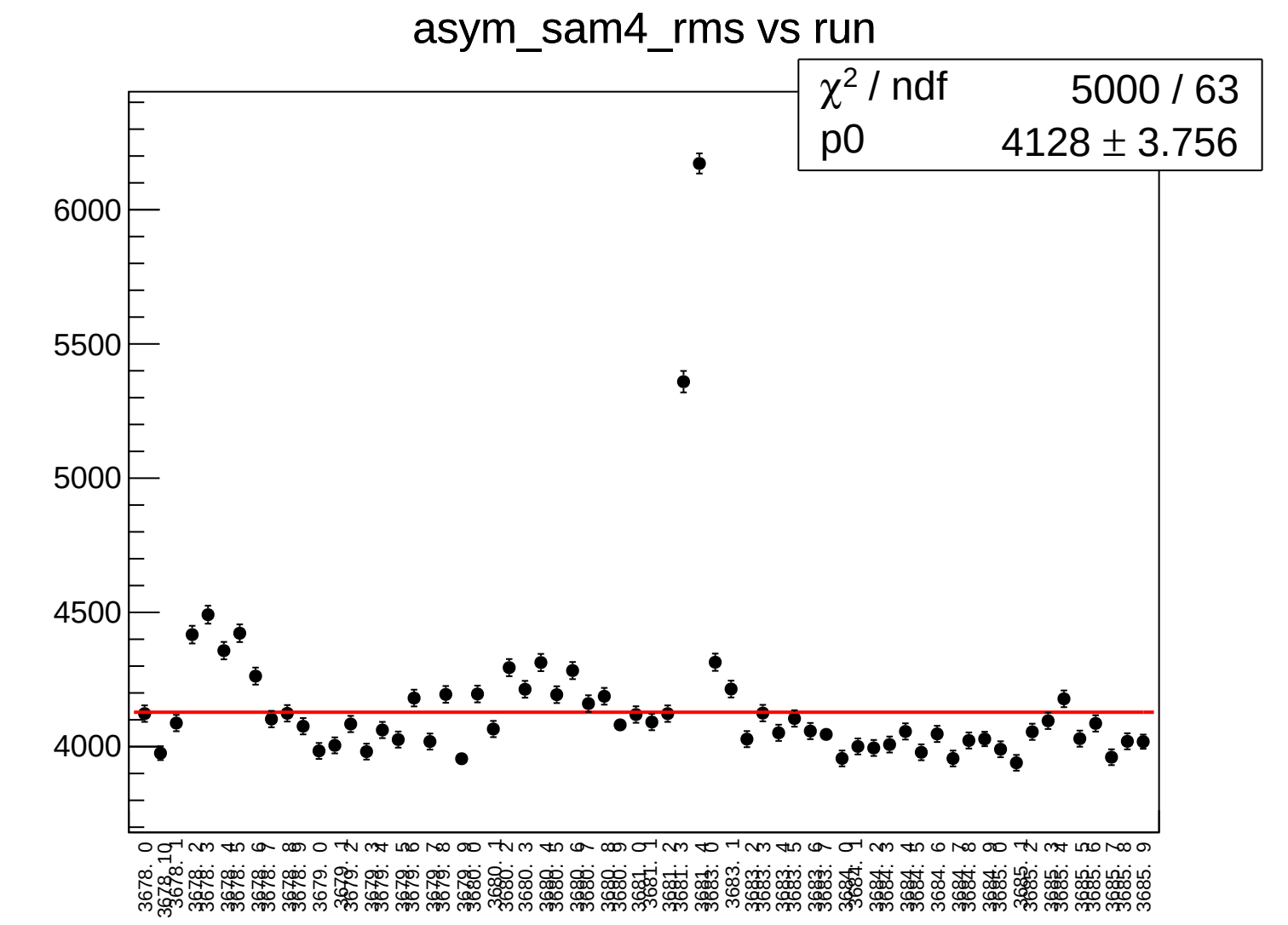

asym_sam3_mean vs run
×10^3
χ² / ndf 56.13 / 63
p0 1021 ± 6417
pull
Entries 64
Mean 90.22
Std Dev 99.14

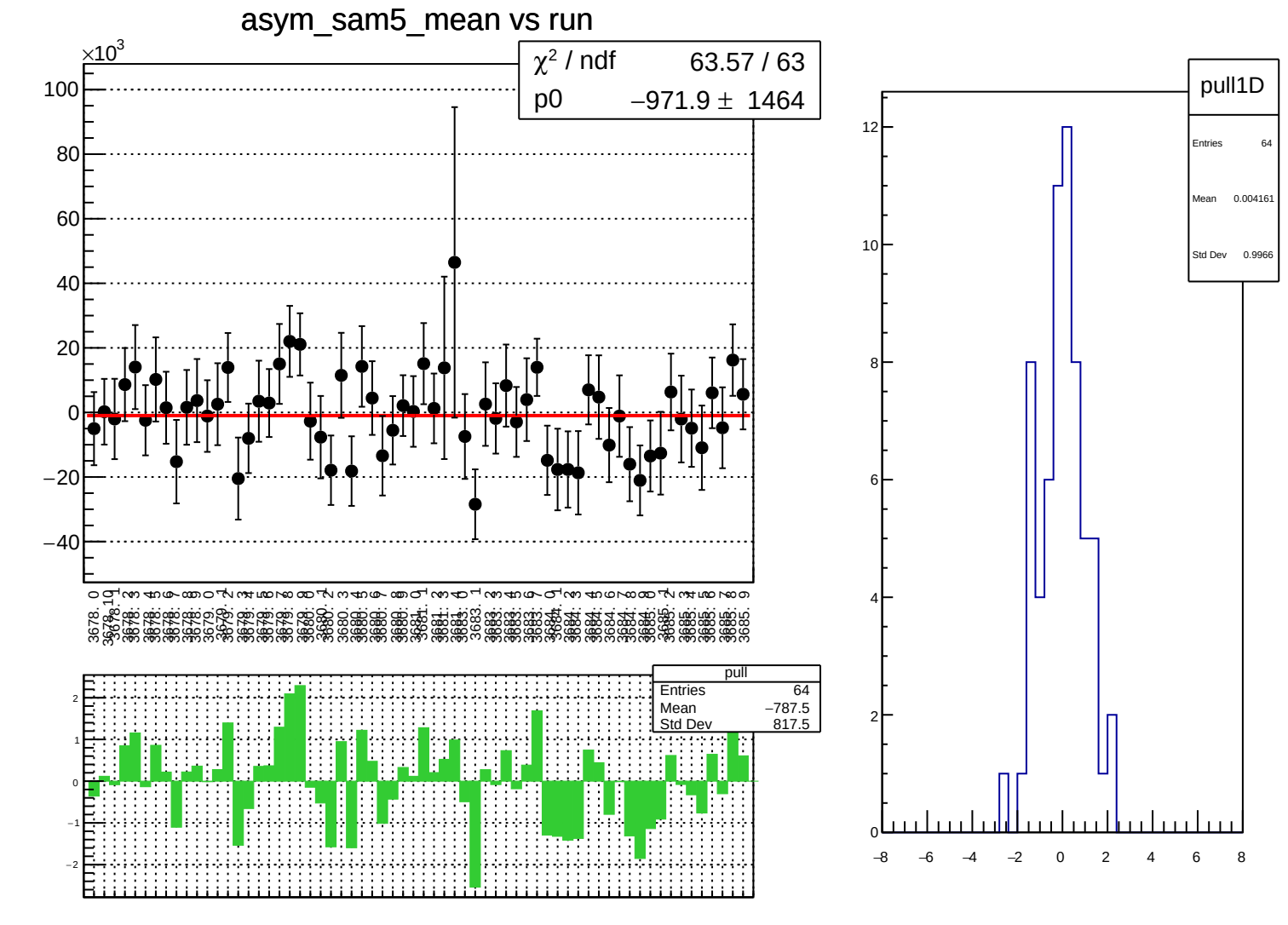

pull1D
Entries 64
Mean 0.003316
Std Dev 0.9365

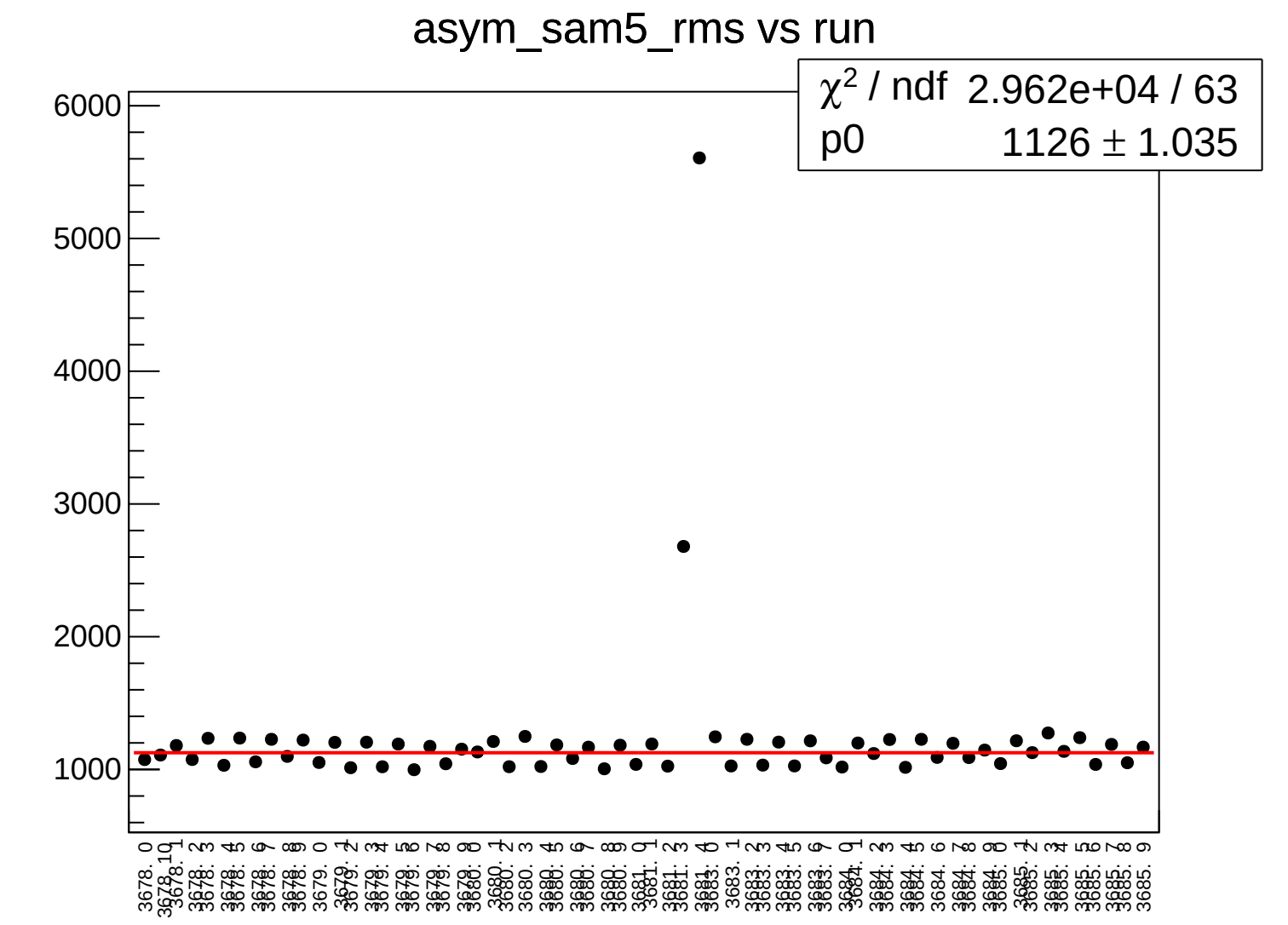

asym_sam3_rms vs run
χ² / ndf 1.243e+04 / 63
p0 4971 ± 4.537
11000
10000
9000
8000
7000
6000
5000
4000

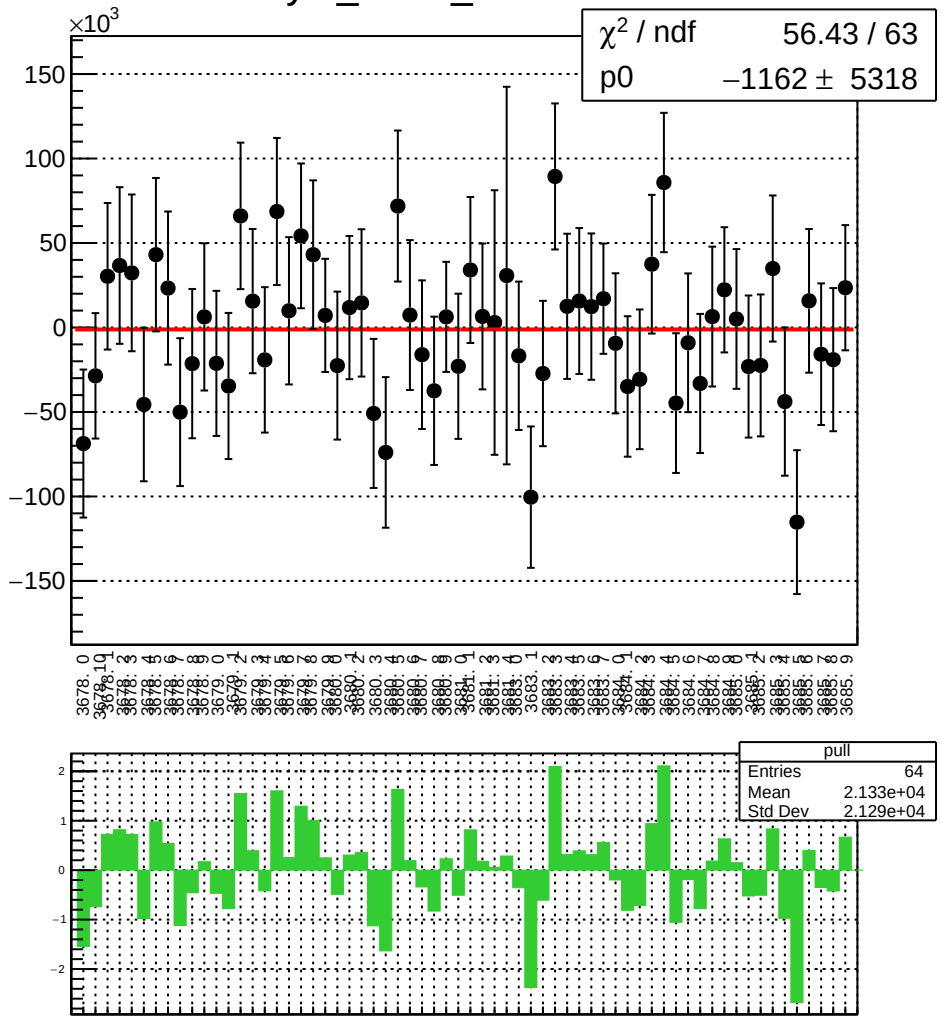

asym_sam4_mean vs run
×10^3
χ² / ndf 60.75 / 63
p0 2627 ± 5312
150
100
50
0
−50
−100
−150
pull
Entries 64
Mean 711.2
Std Dev 721.3
2
1
0
−1
−2

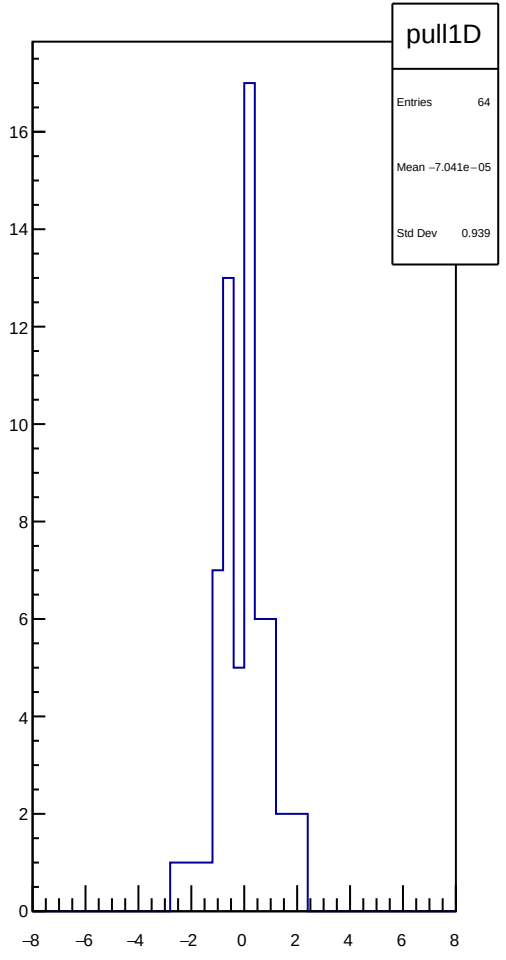

pull1D
Entries 64
Mean −0.0008767
Std Dev 0.9743
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

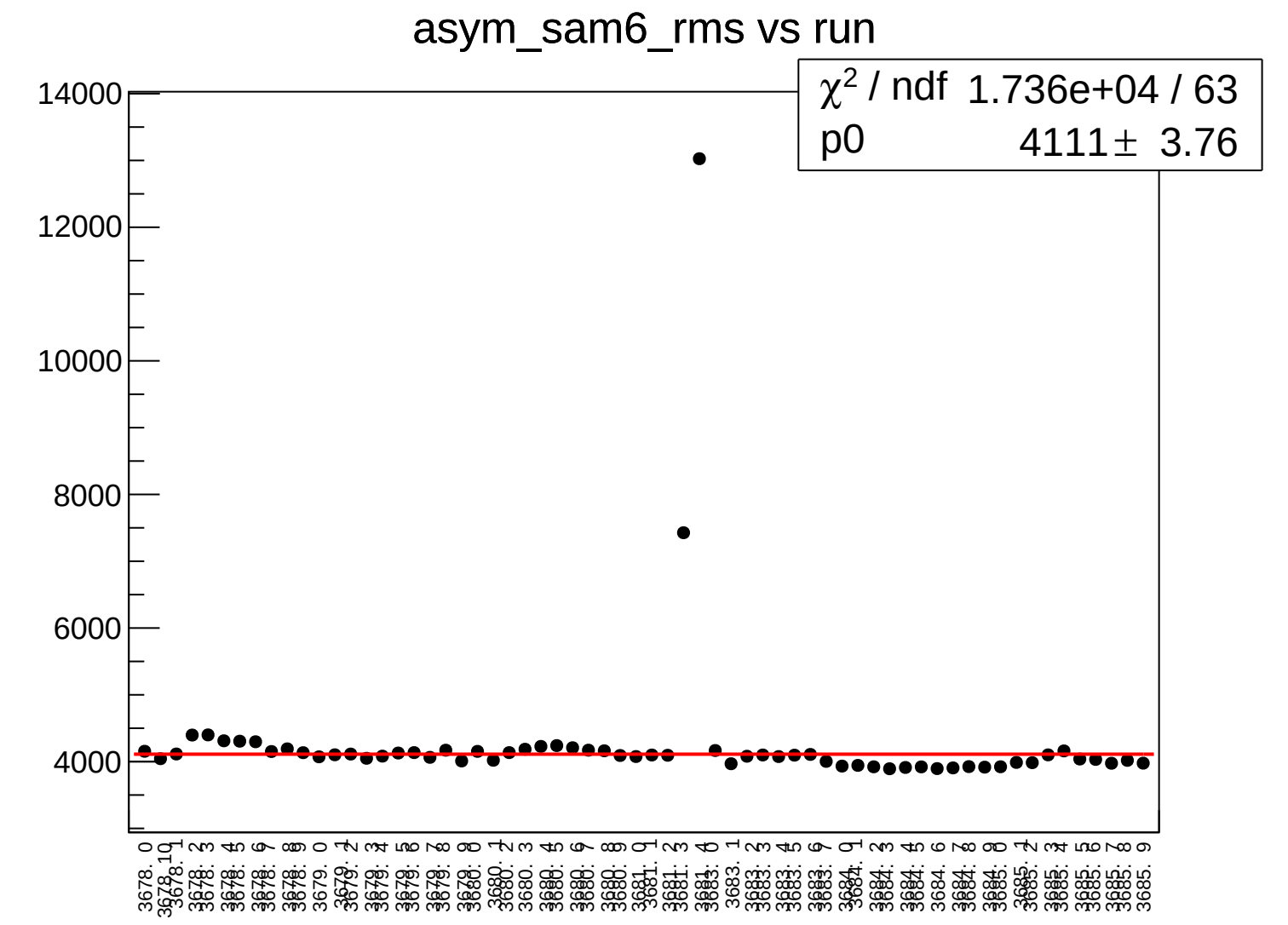

asym_sam4_rms vs run
$\chi^2$ / ndf 5000 / 63
p0 4128 ± 3.756
6000
5500
5000
4500
4000

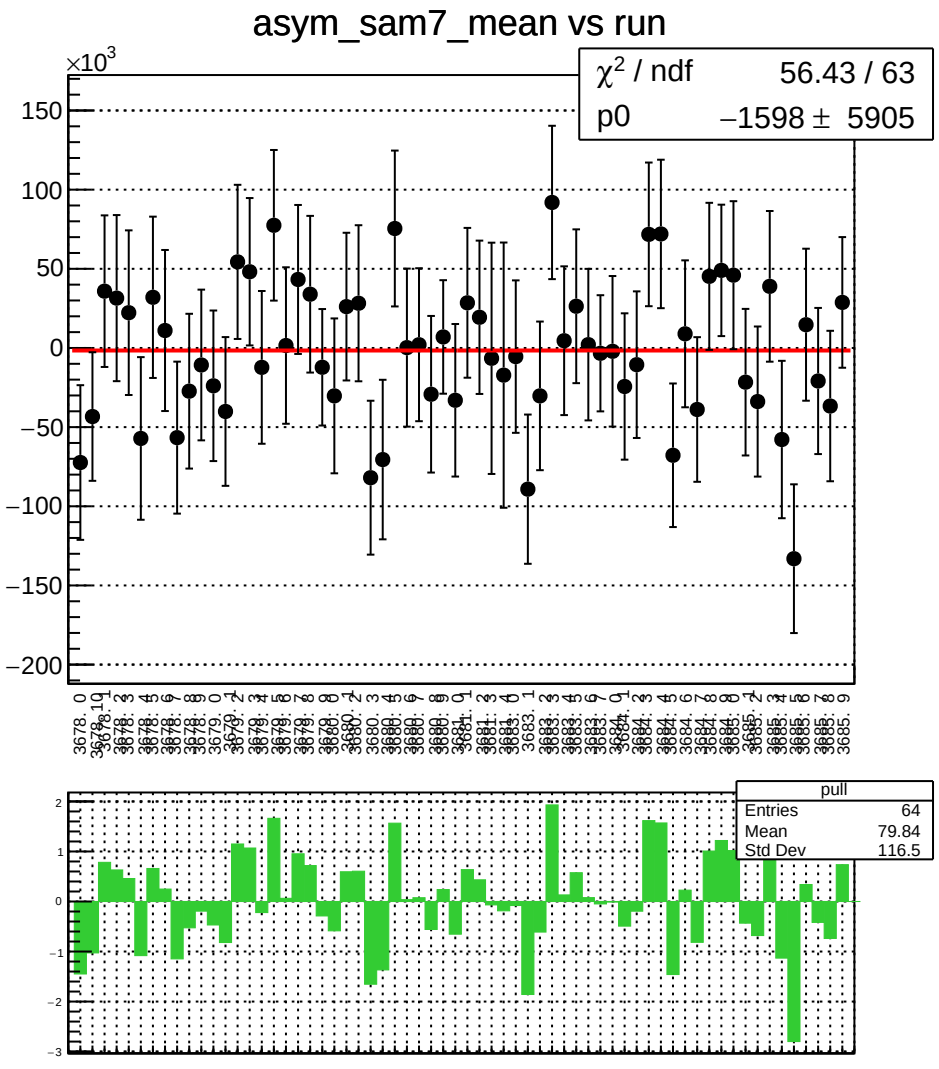

asym_sam5_mean vs run
χ² / ndf 63.57 / 63
p0 −971.9 ± 1464
×10³
pull
Entries 64
Mean −787.5
Std Dev 817.5
pull1D
Entries 64
Mean 0.004161
Std Dev 0.9966

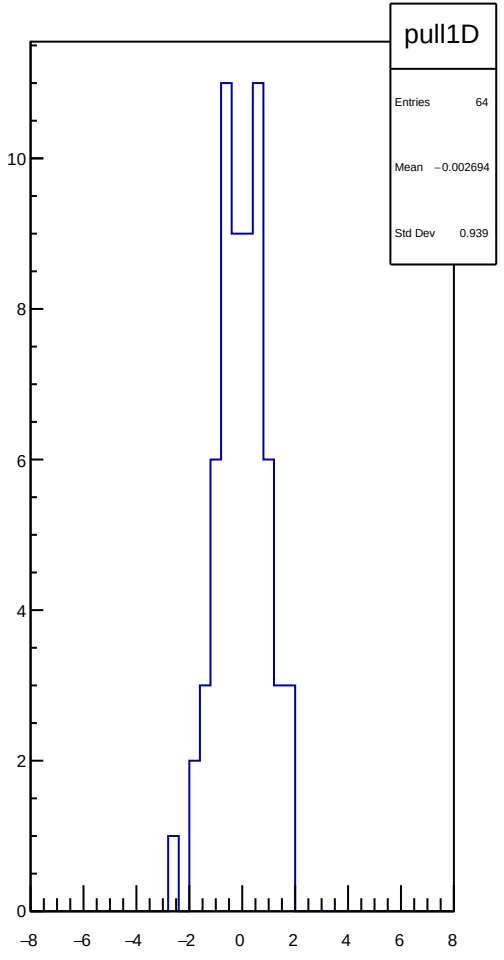

asym_sam5_rms vs run
χ² / ndf 2.962e+04 / 63
p0 1126 ± 1.035
6000
5000
4000
3000
2000
1000

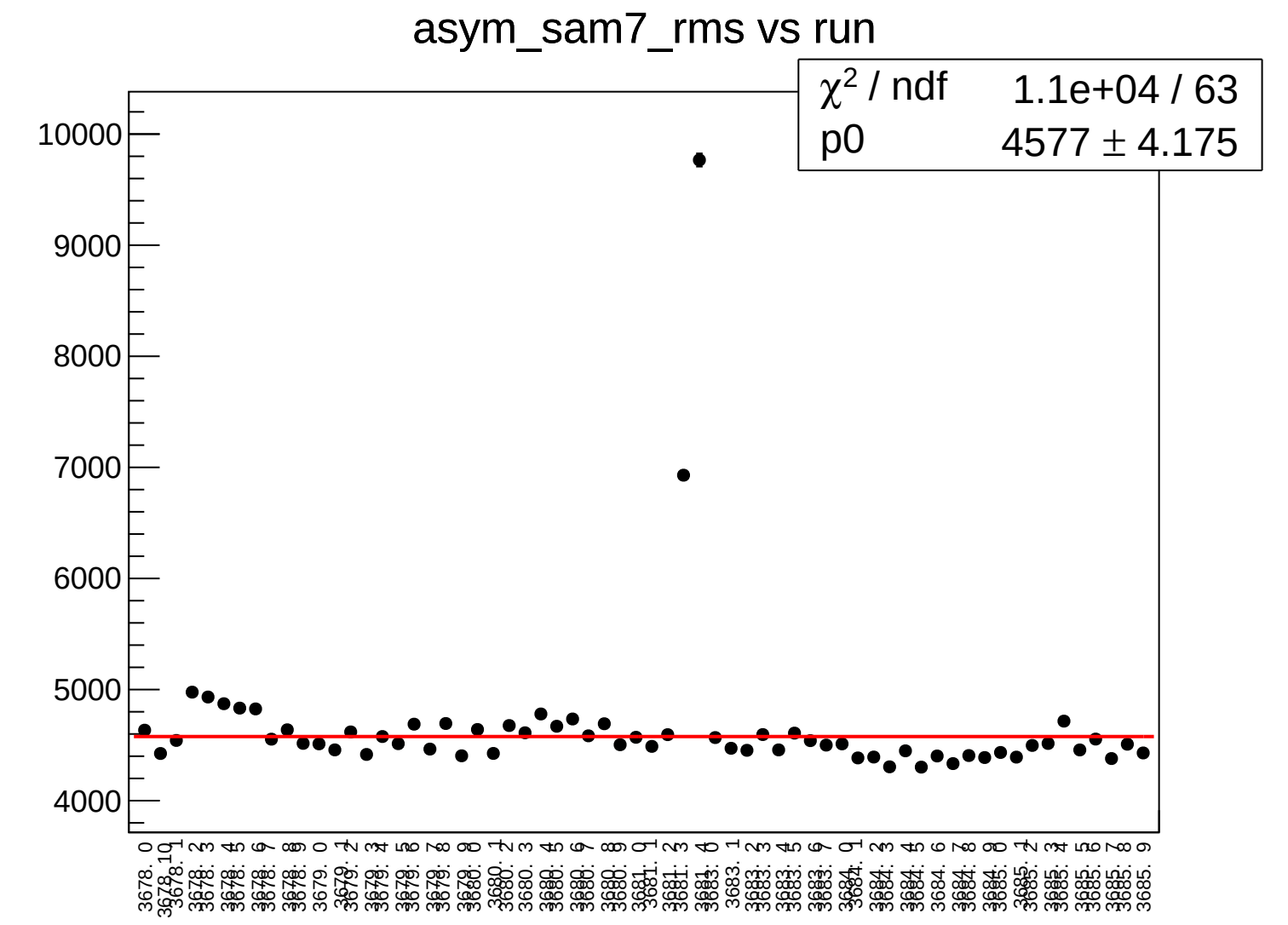

asym_sam6_mean vs run
×10^3
χ² / ndf 56.43 / 63
p0 −1162 ± 5318
150
100
50
0
−50
−100
−150
pull
Entries 64
Mean 2.133e+04
Std Dev 2.129e+04
2
1
0
−1
−2

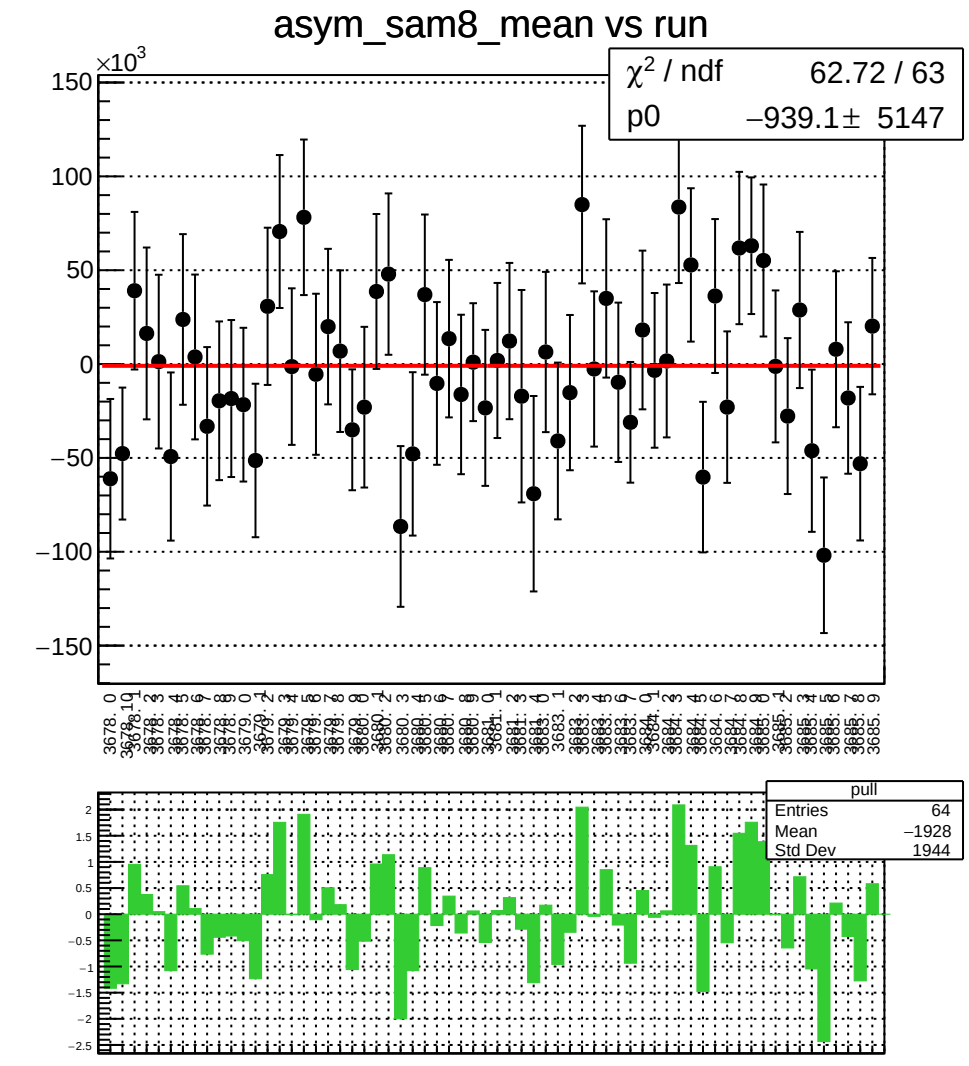

pull1D
Entries 64
Mean −7.041e−05
Std Dev 0.939
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

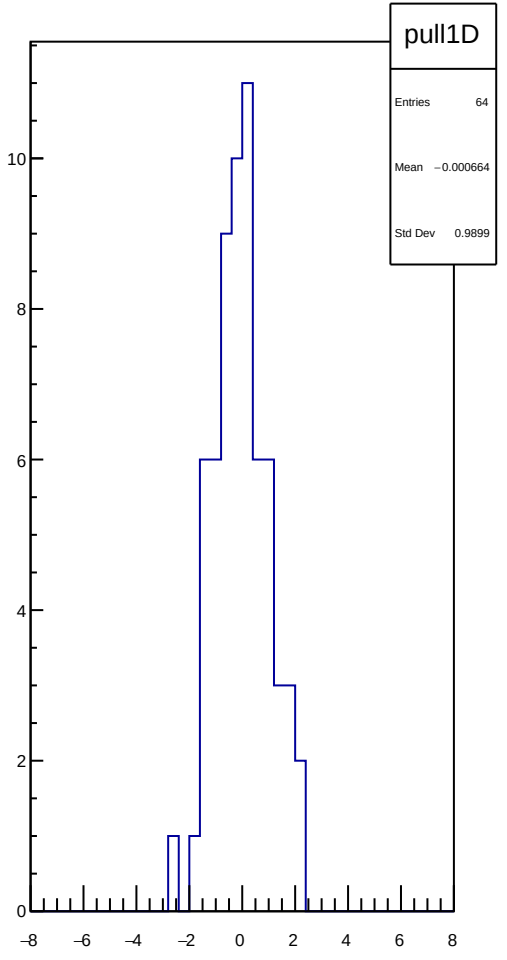

asym_sam6_rms vs run
χ² / ndf 1.736e+04 / 63
p0 4111 ± 3.76
14000
12000
10000
8000
6000
4000

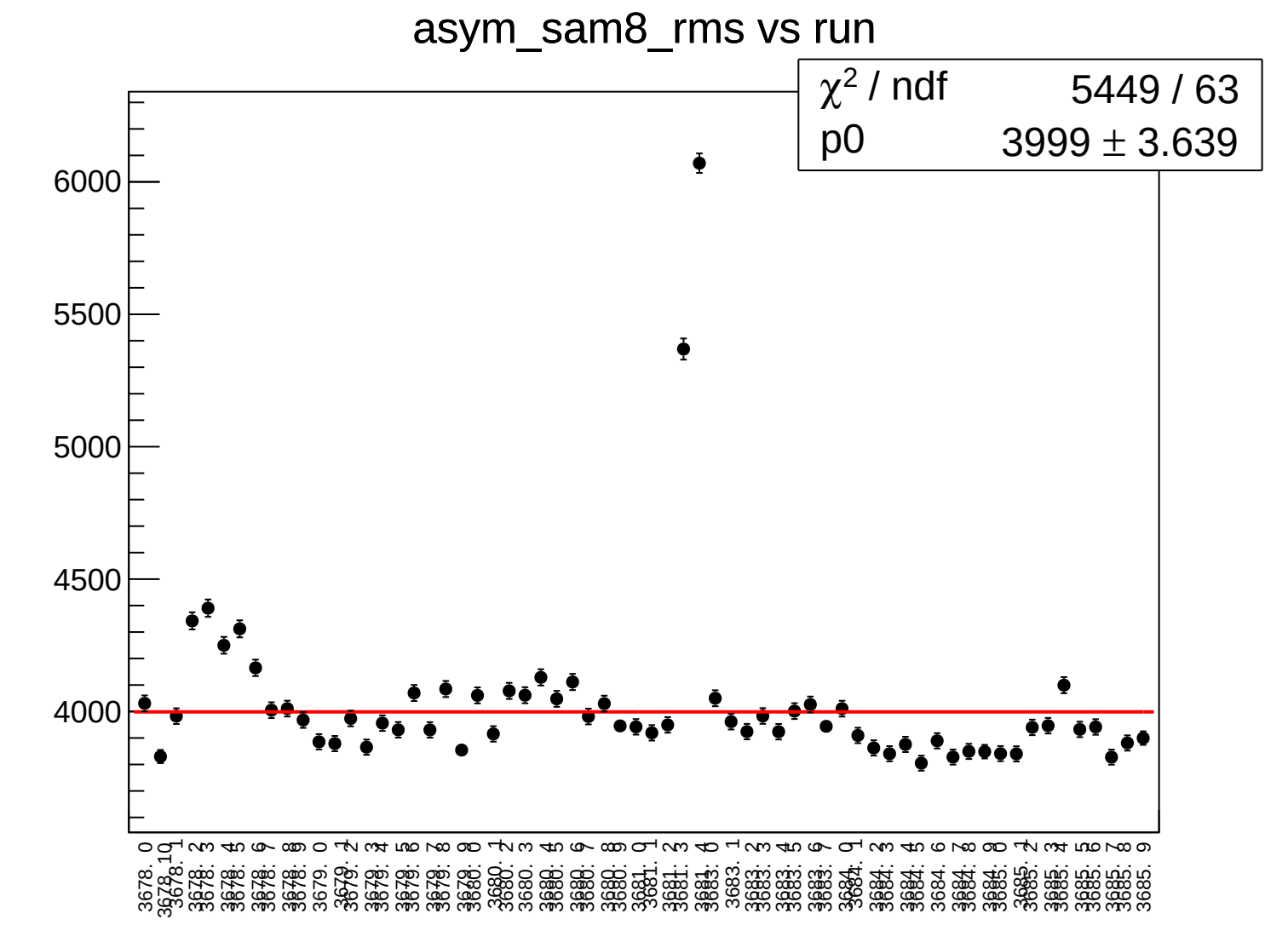

asym_sam7_mean vs run
×10^3
χ^2 / ndf 56.43 / 63
p0 −1598 ± 5905
150
100
50
0
−50
−100
−150
−200
pull
Entries 64
Mean 79.84
Std Dev 116.5
2
1
0
−1
−2
−3

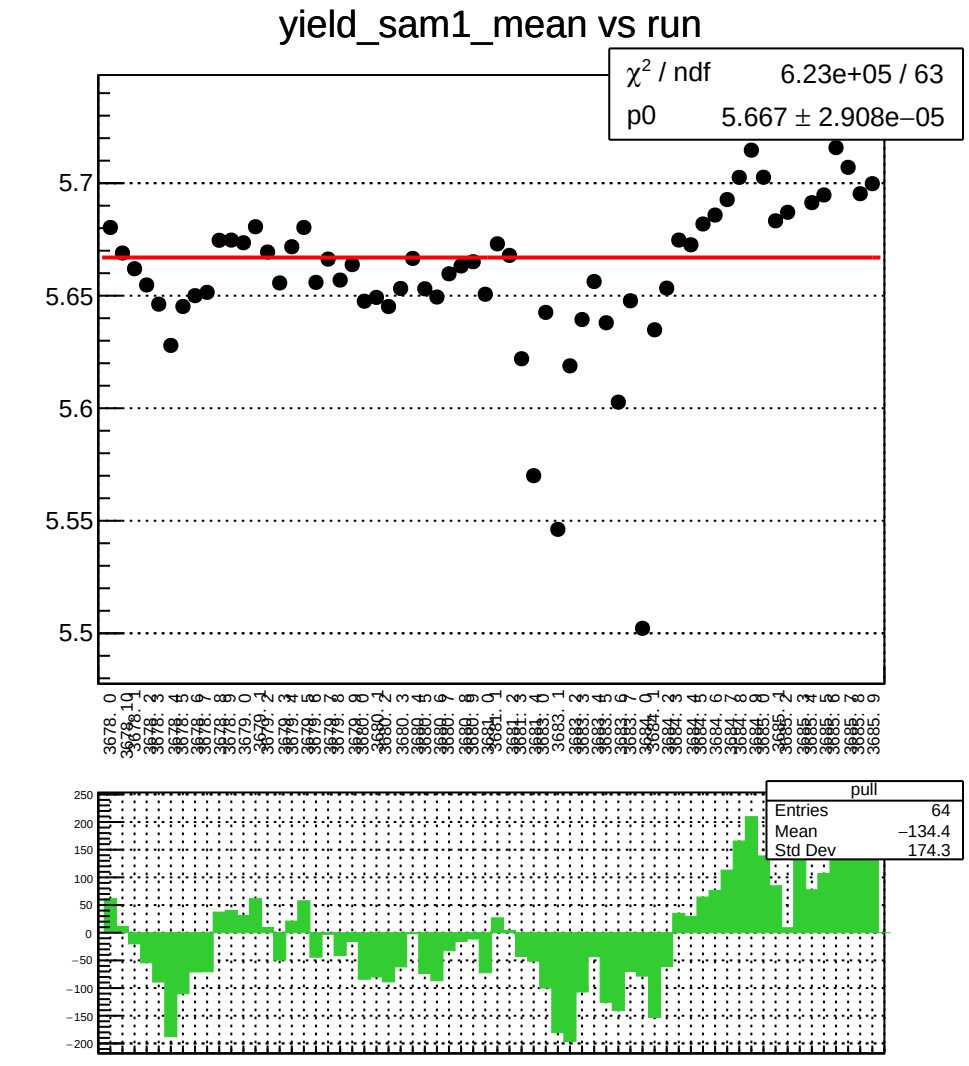

pull1D
Entries 64
Mean −0.002694
Std Dev 0.939
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

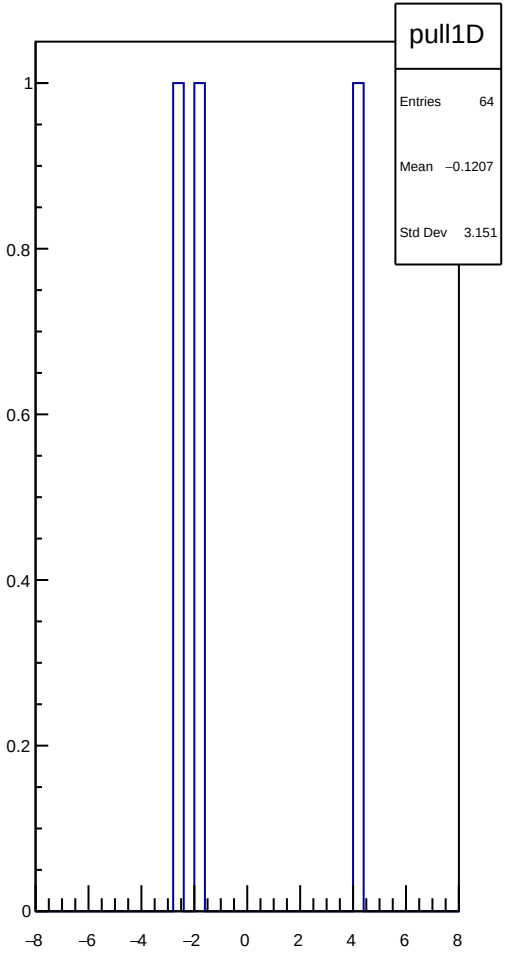

asym_sam7_rms vs run
χ² / ndf 1.1e+04 / 63
p0 4577 ± 4.175
10000
9000
8000
7000
6000
5000
4000

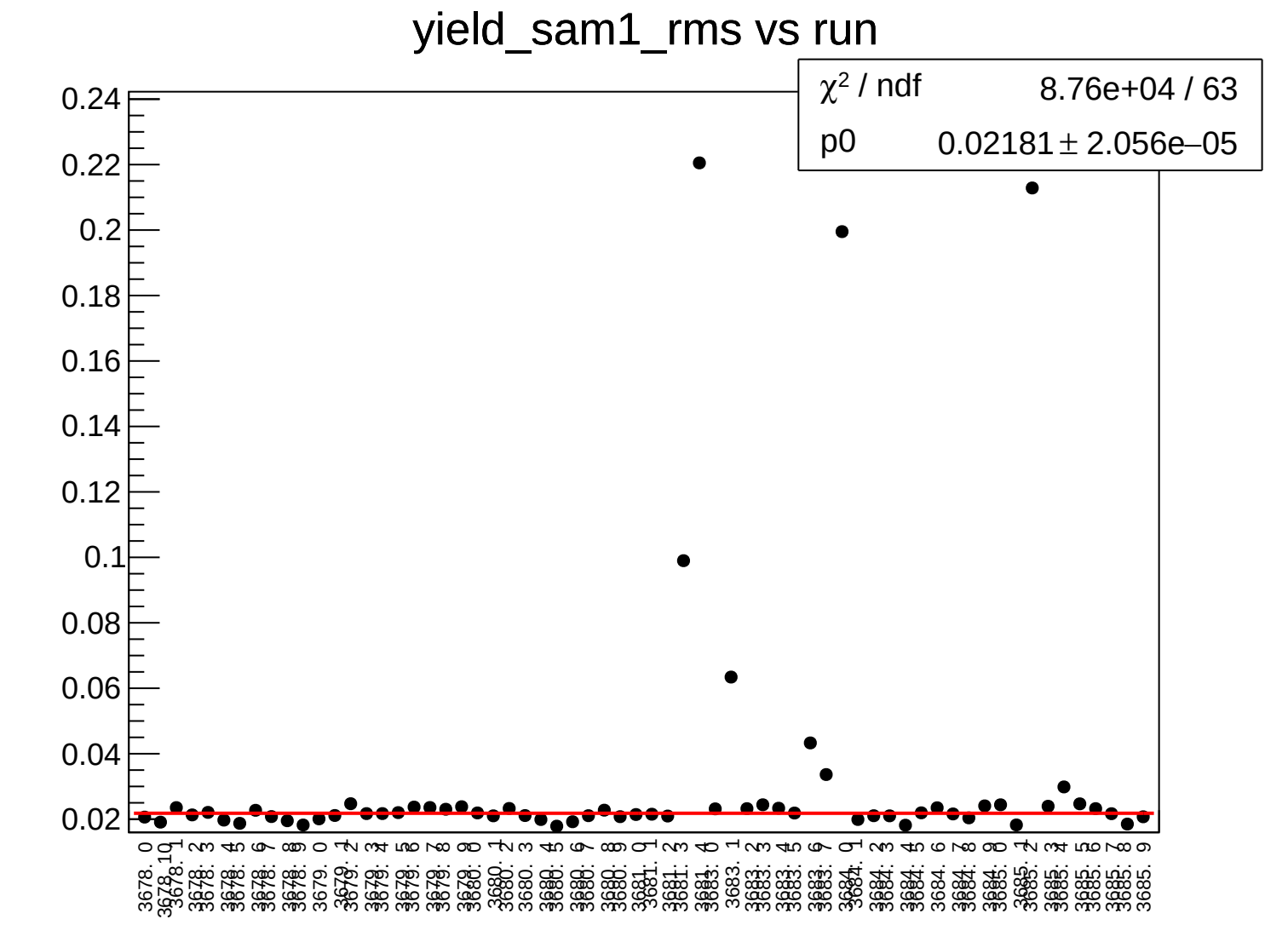

asym_sam8_mean vs run
×10^3
χ² / ndf 62.72 / 63
p0 −939.1± 5147
150
100
50
0
−50
−100
−150
pull
Entries 64
Mean −1928
Std Dev 1944
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

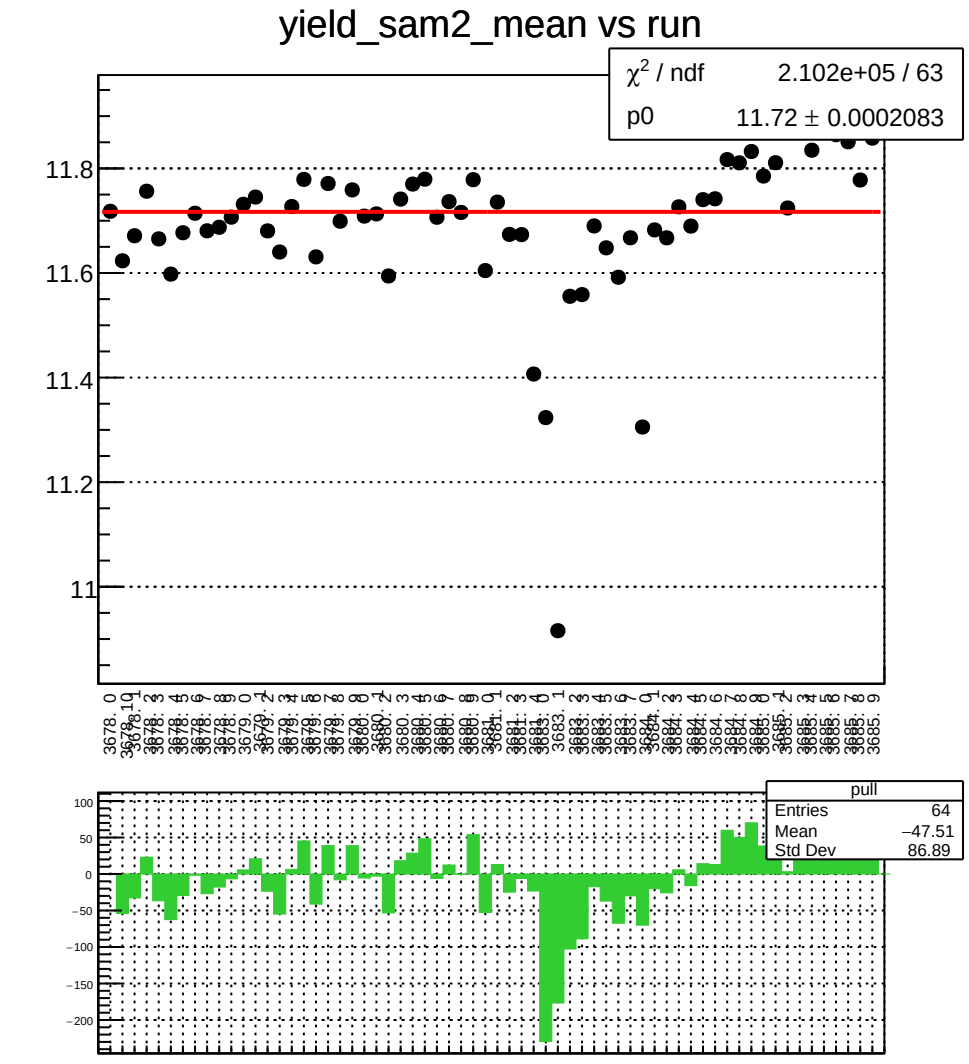

pull1D
Entries 64
Mean −0.000664
Std Dev 0.9899
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

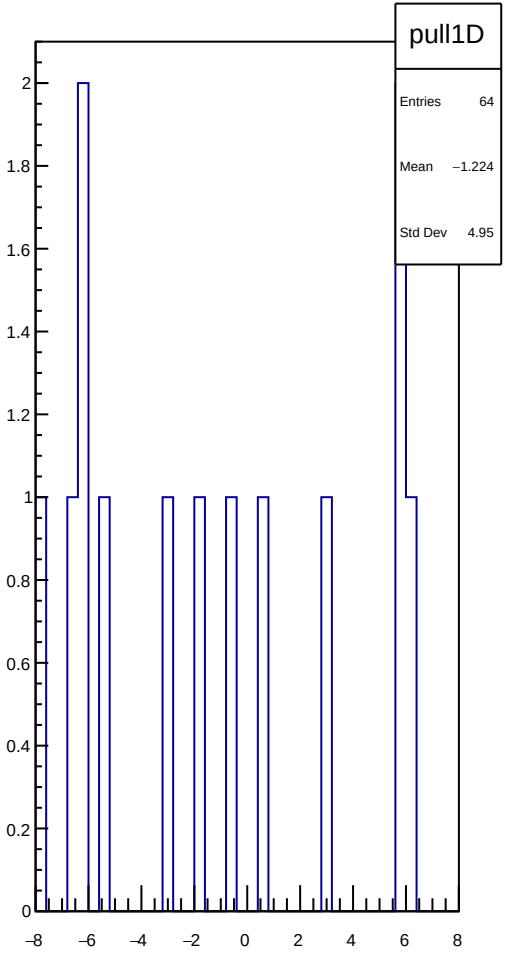

asym_sam8_rms vs run
χ² / ndf 5449 / 63
p0 3999 ± 3.639
6000
5500
5000
4500
4000

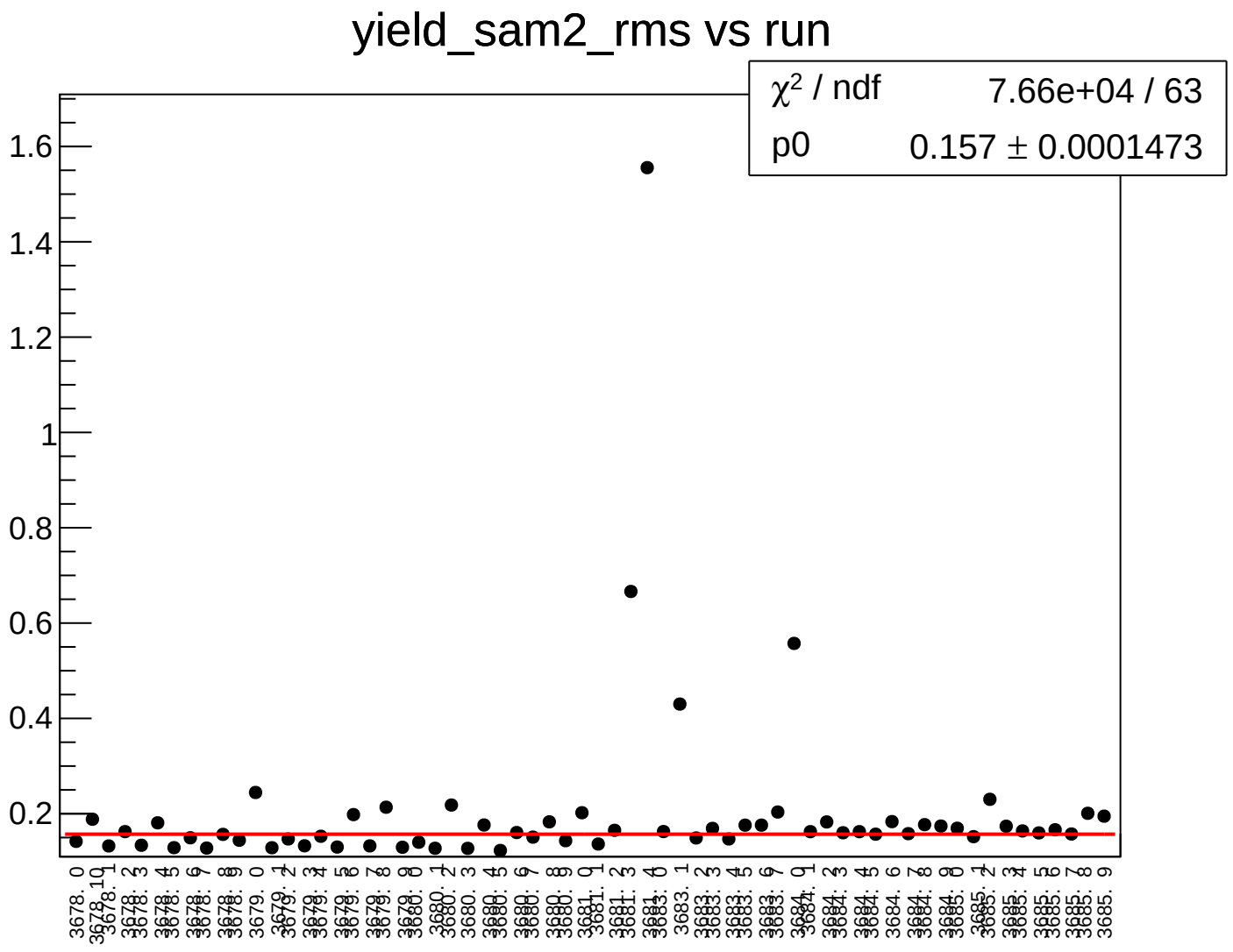

yield_sam1_mean vs run
χ² / ndf 6.23e+05 / 63
p0 5.667 ± 2.908e−05
5.7
5.65
5.6
5.55
5.5
pull
Entries 64
Mean −134.4
Std Dev 174.3
250
200
150
100
50
0
−50
−100
−150
−200

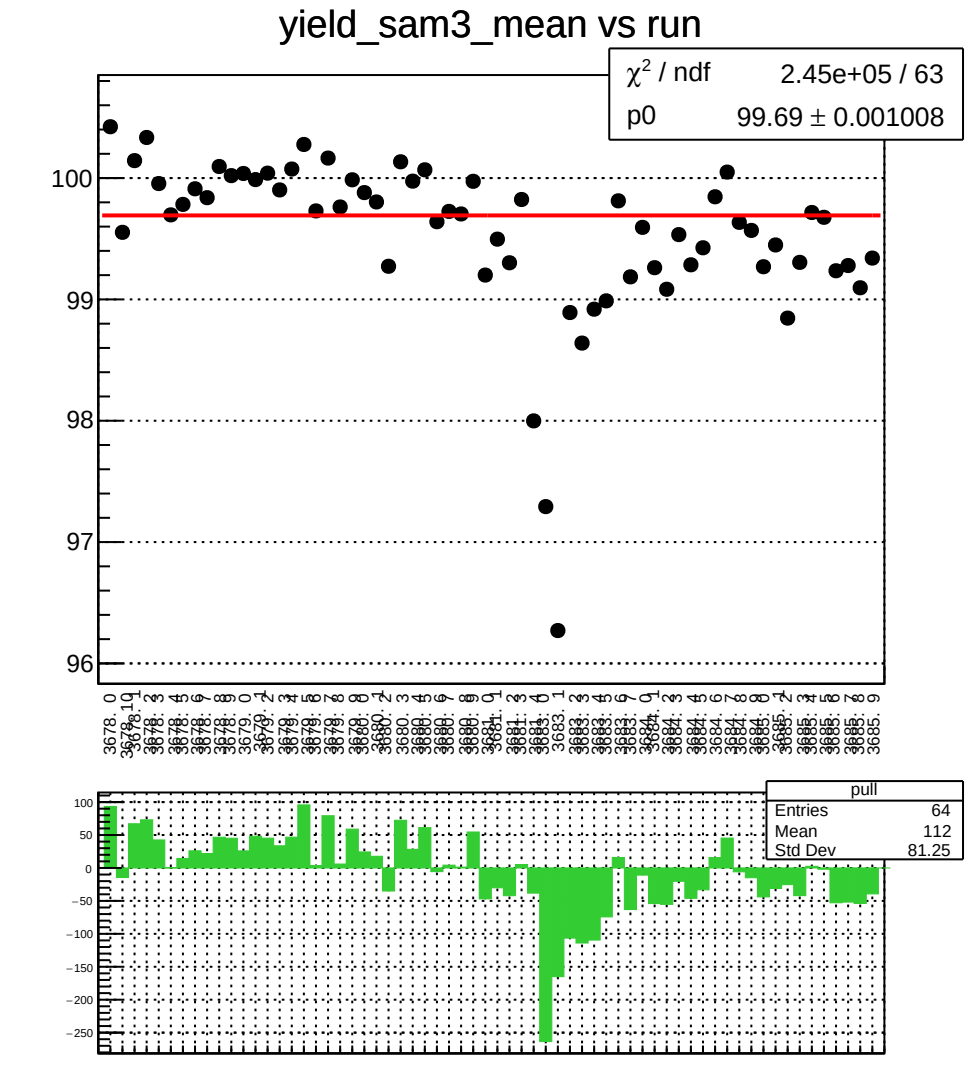

pull1D
Entries 64
Mean −0.1207
Std Dev 3.151
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

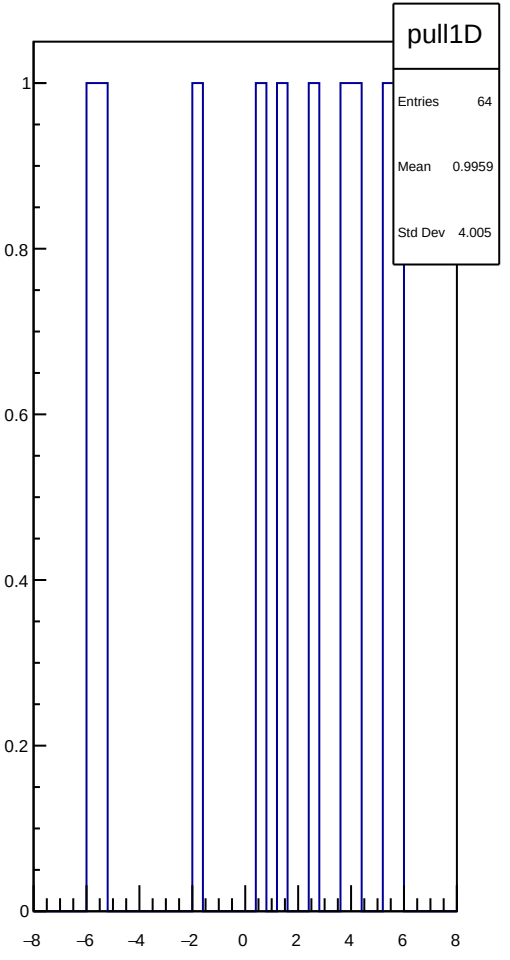

yield_sam1_rms vs run
χ² / ndf 8.76e+04 / 63
p0 0.02181 ± 2.056e–05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

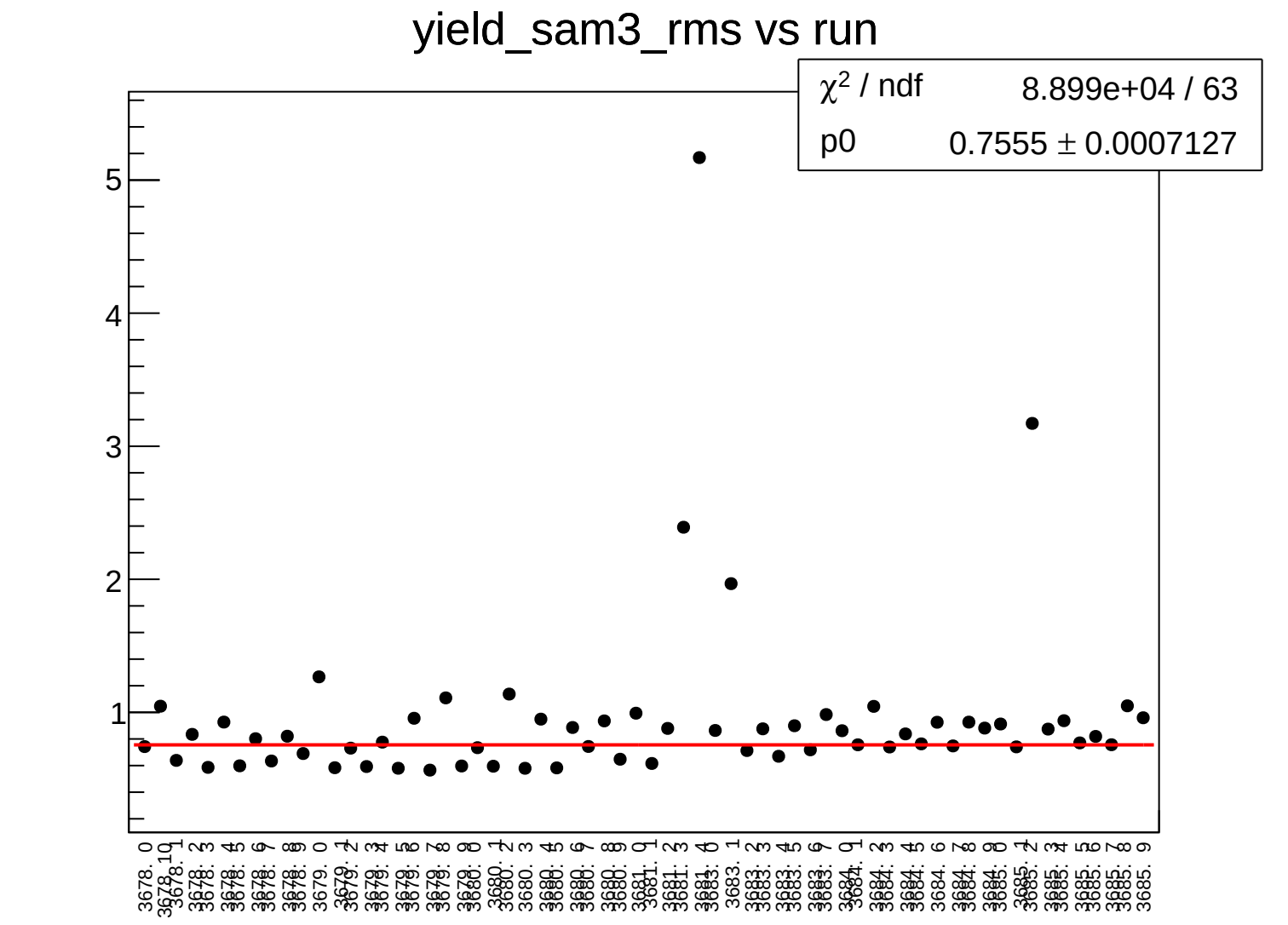

yield_sam2_mean vs run
χ² / ndf 2.102e+05 / 63
p0 11.72 ± 0.0002083
11.8
11.6
11.4
11.2
11
pull
Entries 64
Mean −47.51
Std Dev 86.89
100
50
0
−50
−100
−150
−200

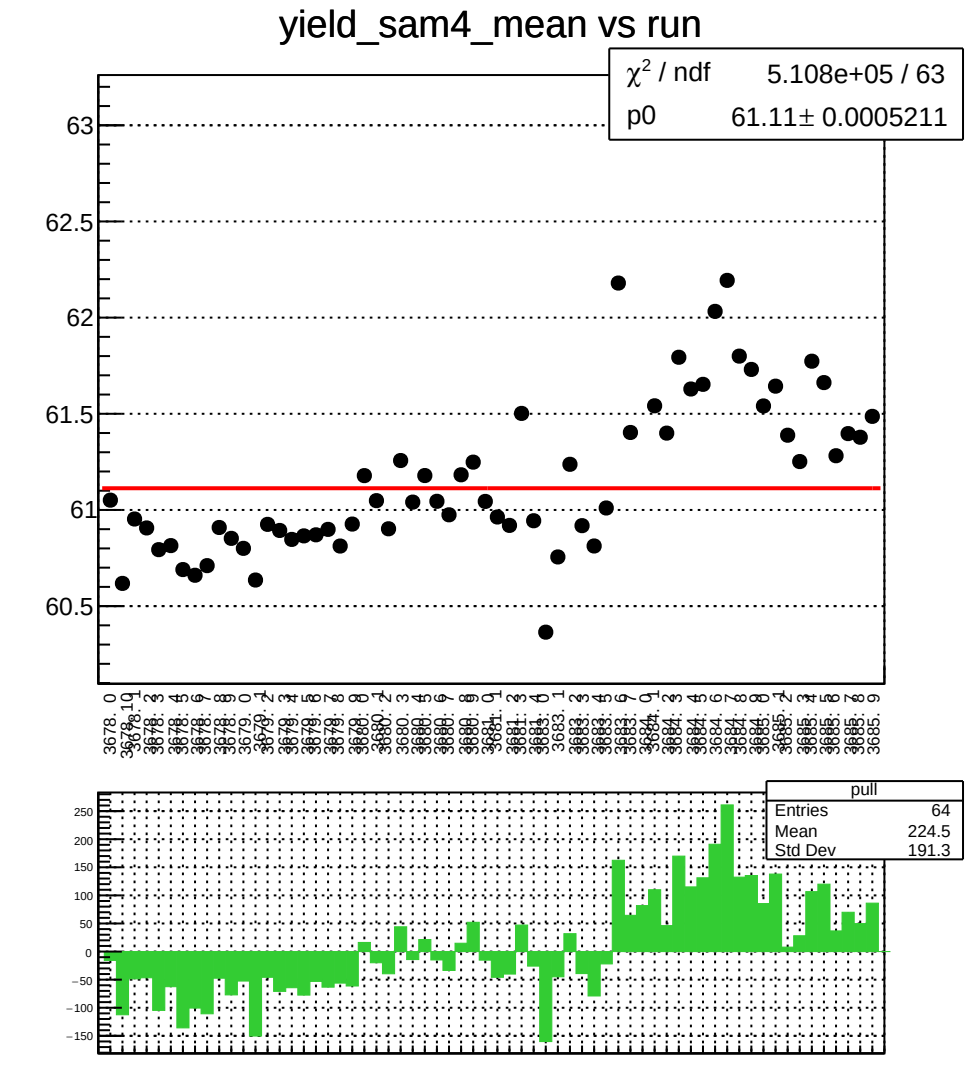

pull1D
Entries 64
Mean −1.224
Std Dev 4.95
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

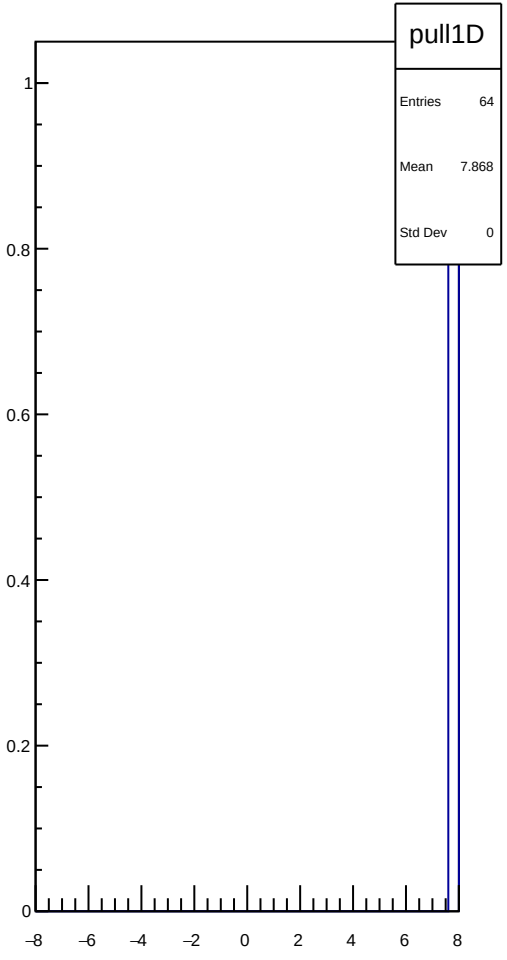

yield_sam2_rms vs run
χ² / ndf 7.66e+04 / 63
p0 0.157 ± 0.0001473
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

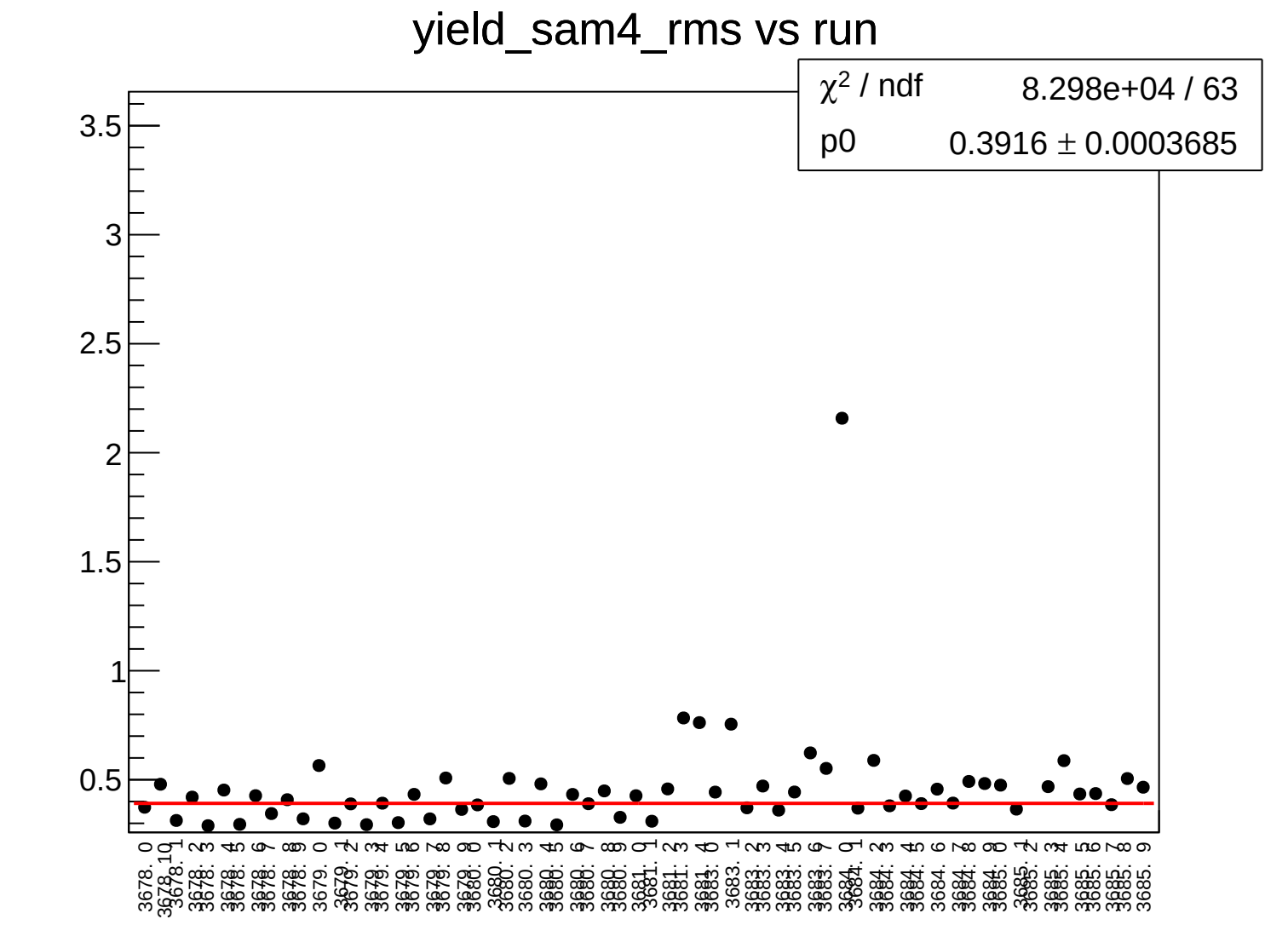

yield_sam3_mean vs run
χ² / ndf 2.45e+05 / 63
p0 99.69 ± 0.001008
pull
Entries 64
Mean 112
Std Dev 81.25

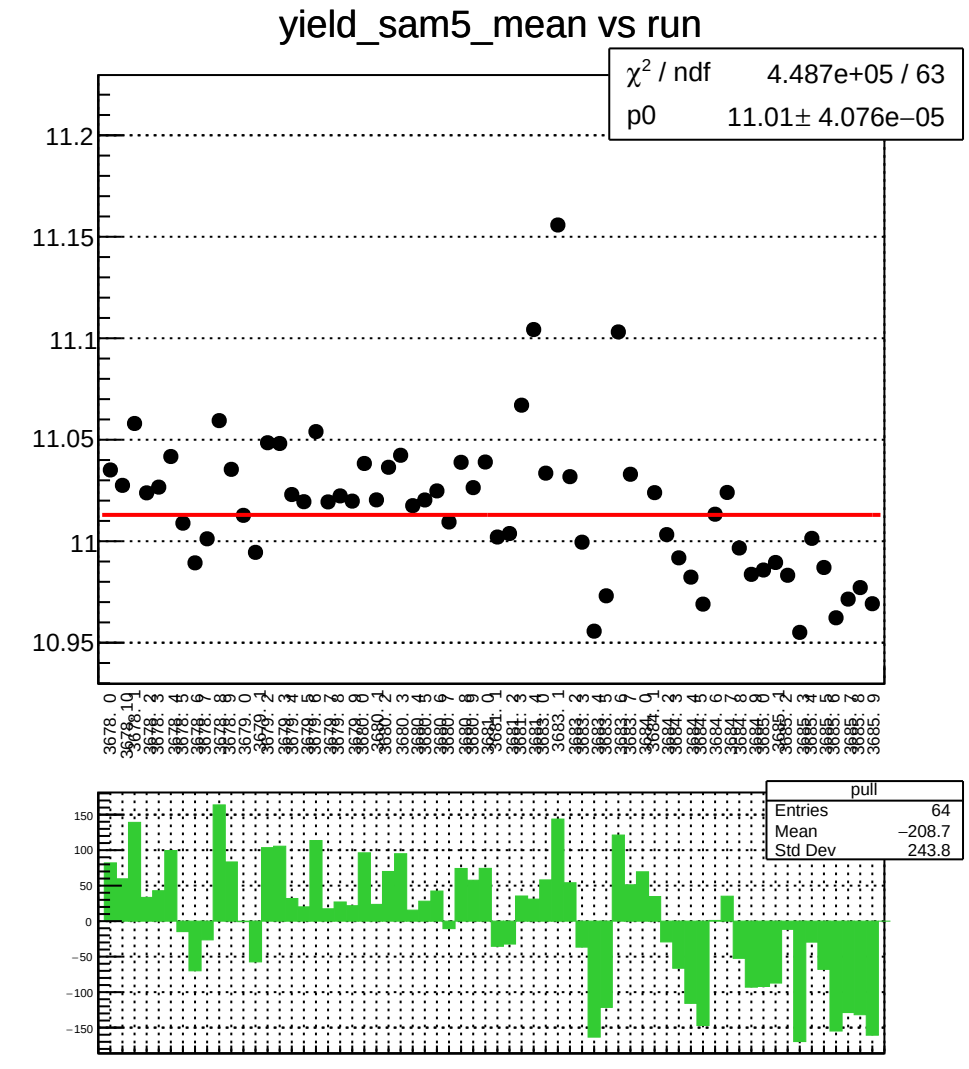

pull1D
Entries 64
Mean 0.9959
Std Dev 4.005

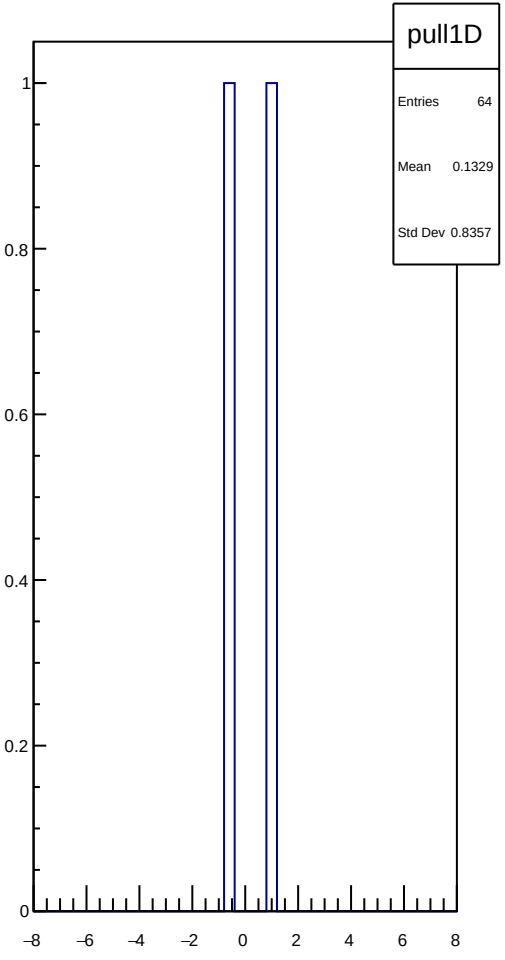

yield_sam3_rms vs run
$\chi^2$ / ndf 8.899e+04 / 63
p0 0.7555 ± 0.0007127
5
4
3
2
1

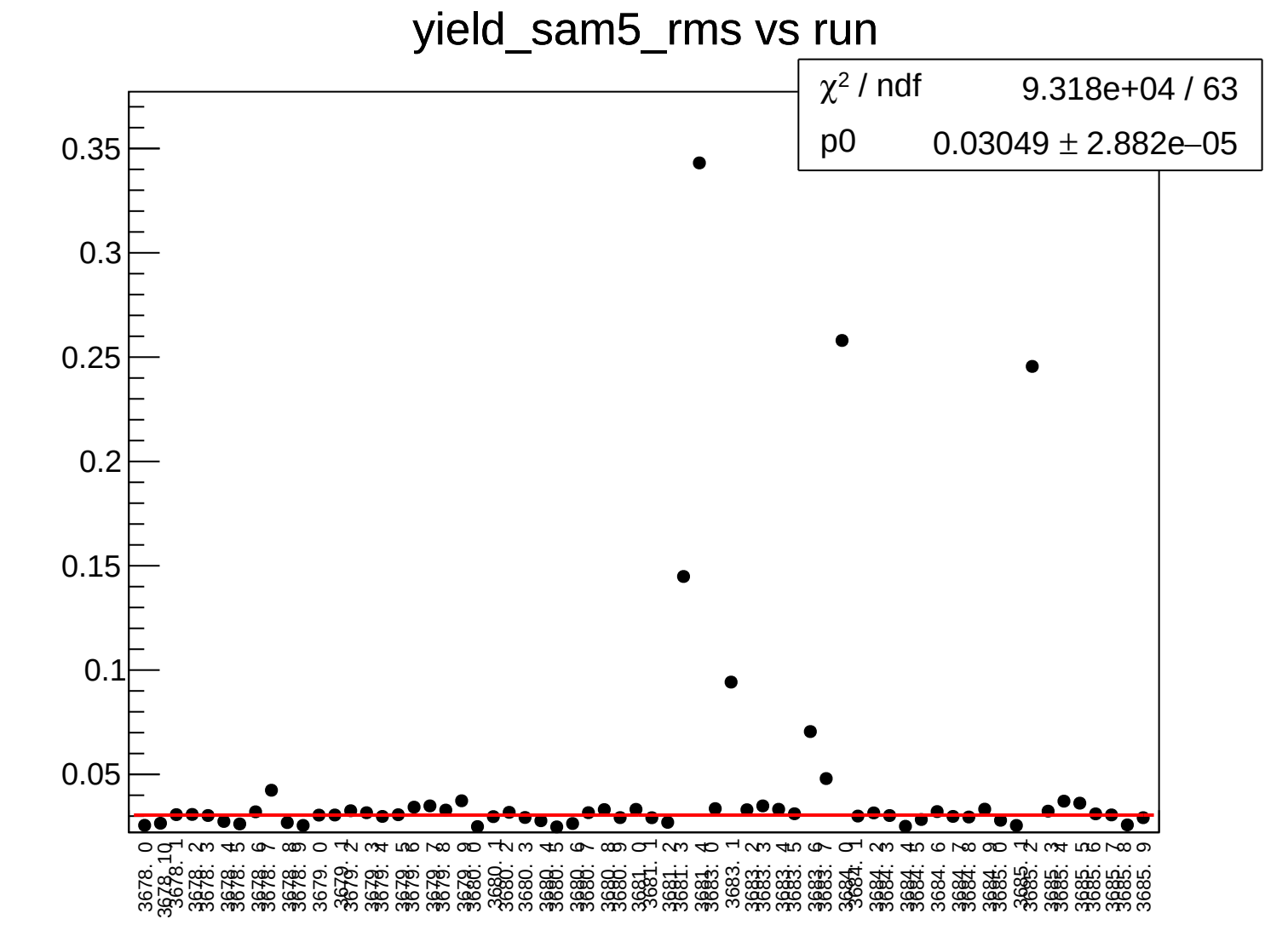

yield_sam4_mean vs run
χ² / ndf 5.108e+05 / 63
p0 61.11± 0.0005211
63
62.5
62
61.5
61
60.5
pull
Entries 64
Mean 224.5
Std Dev 191.3
250
200
150
100
50
0
−50
−100
−150

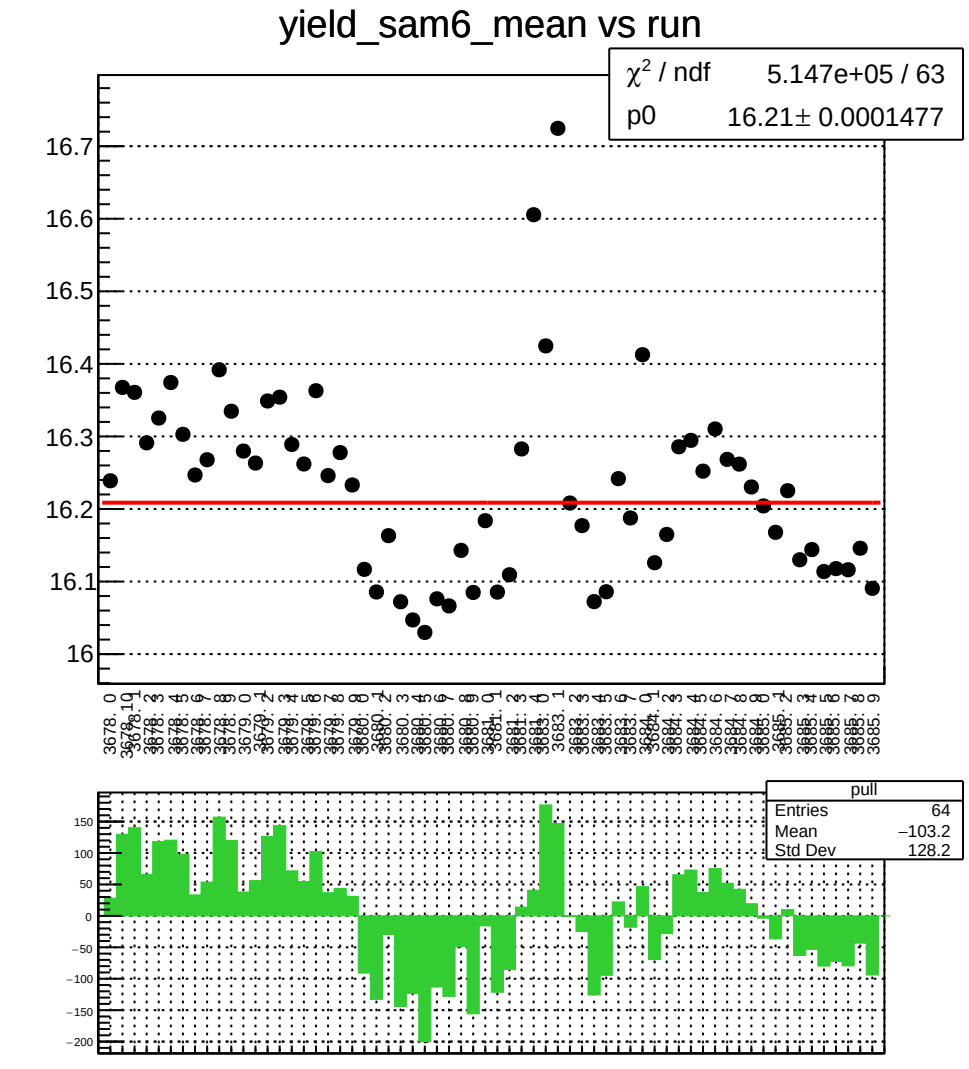

pull1D
Entries 64
Mean 7.868
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

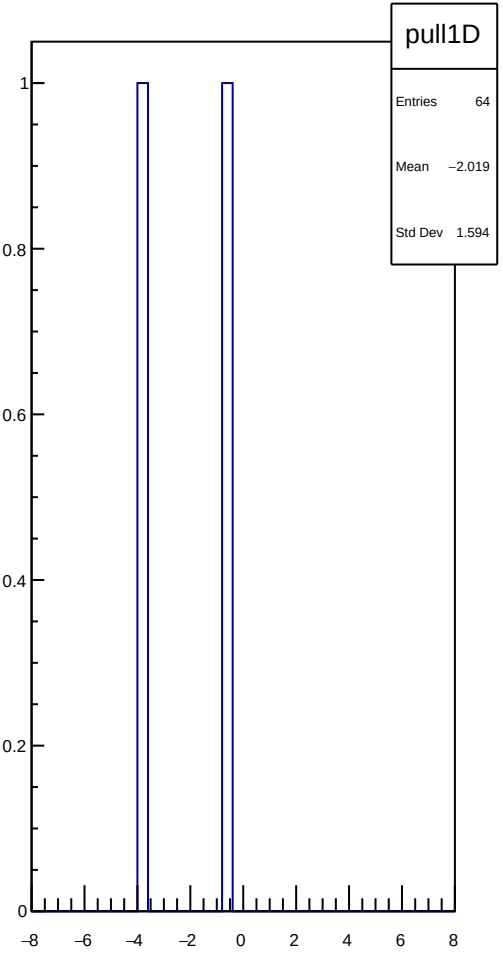

yield_sam4_rms vs run
χ² / ndf 8.298e+04 / 63
p0 0.3916 ± 0.0003685
3.5
3
2.5
2
1.5
1
0.5

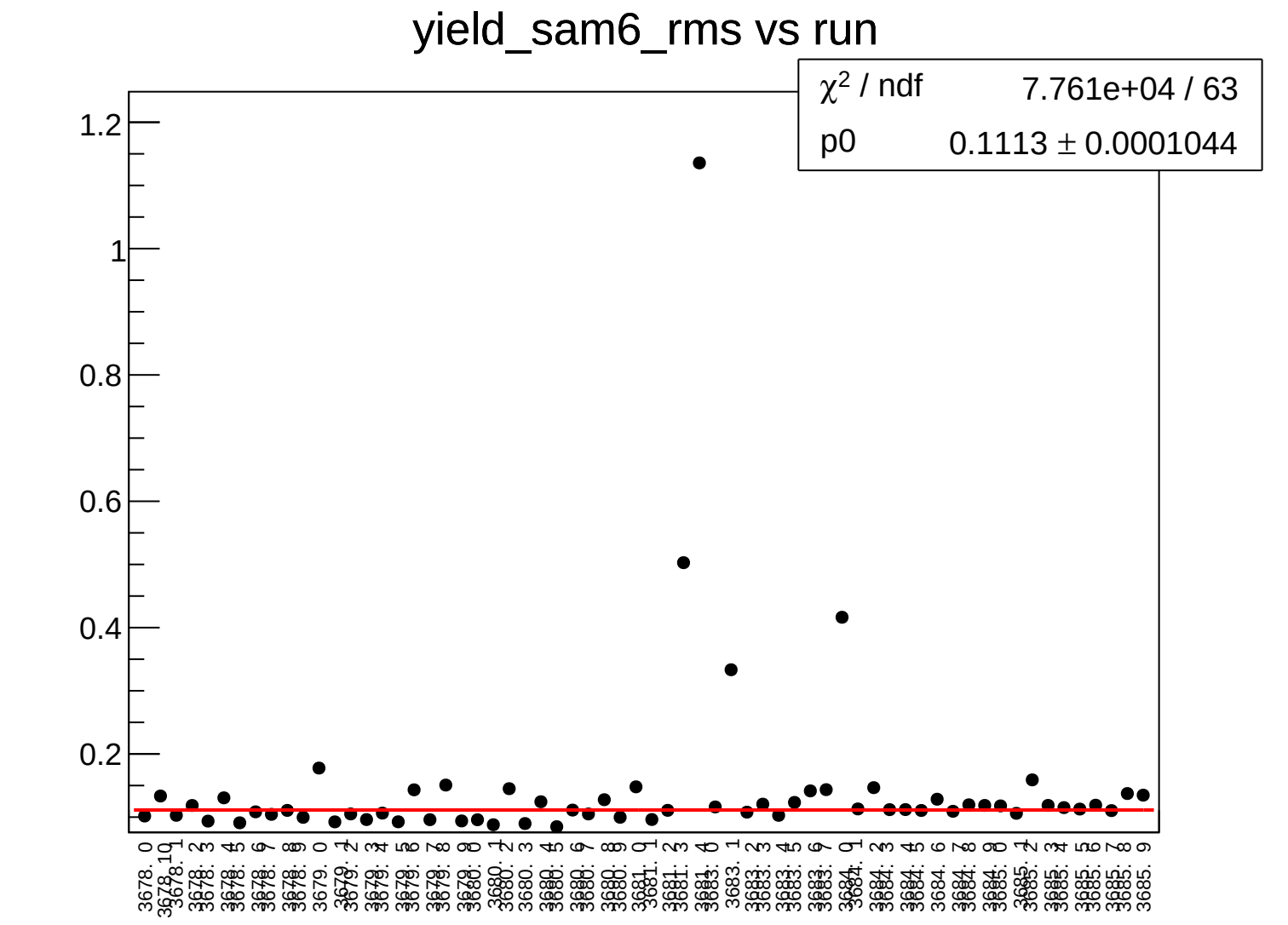

yield_sam5_mean vs run
χ² / ndf 4.487e+05 / 63
p0 11.01± 4.076e−05
11.2
11.15
11.1
11.05
11
10.95
pull
Entries 64
Mean −208.7
Std Dev 243.8
150
100
50
0
−50
−100
−150

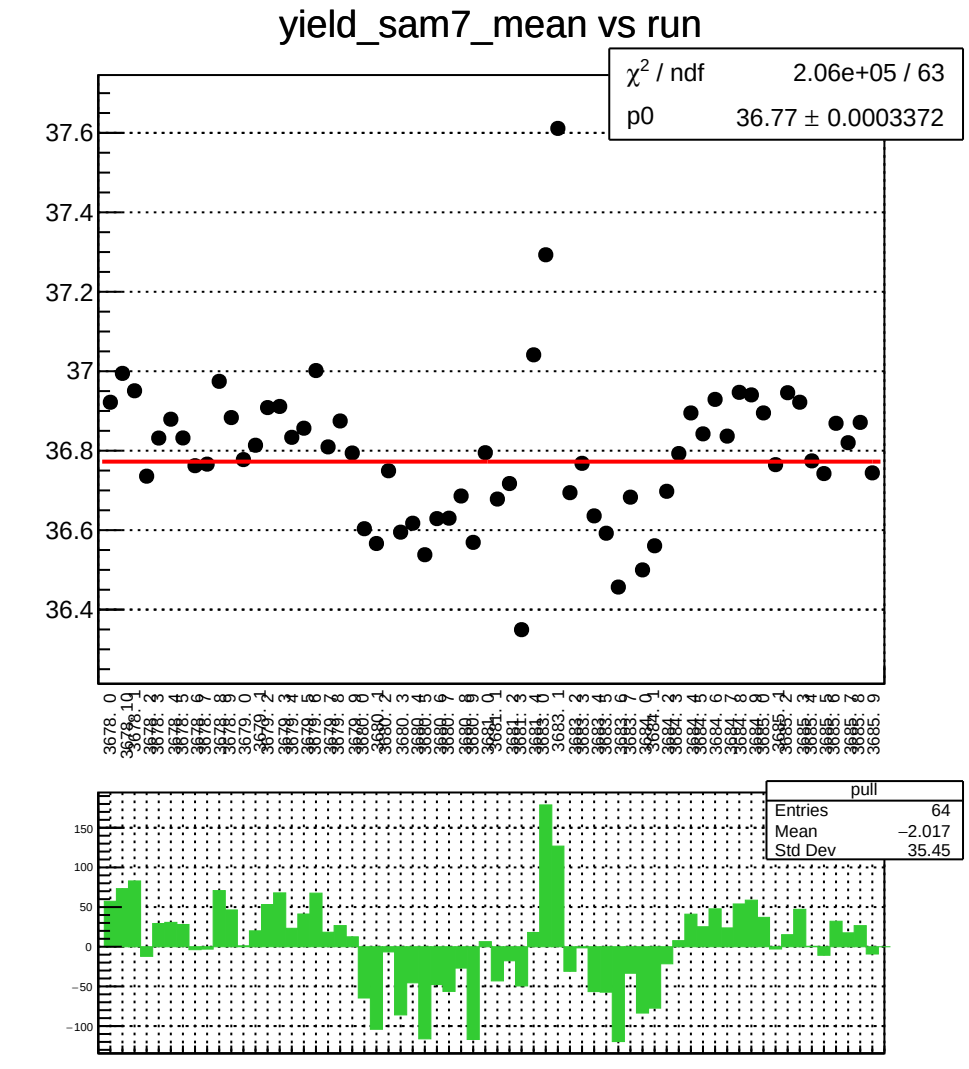

pull1D
Entries 64
Mean 0.1329
Std Dev 0.8357
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

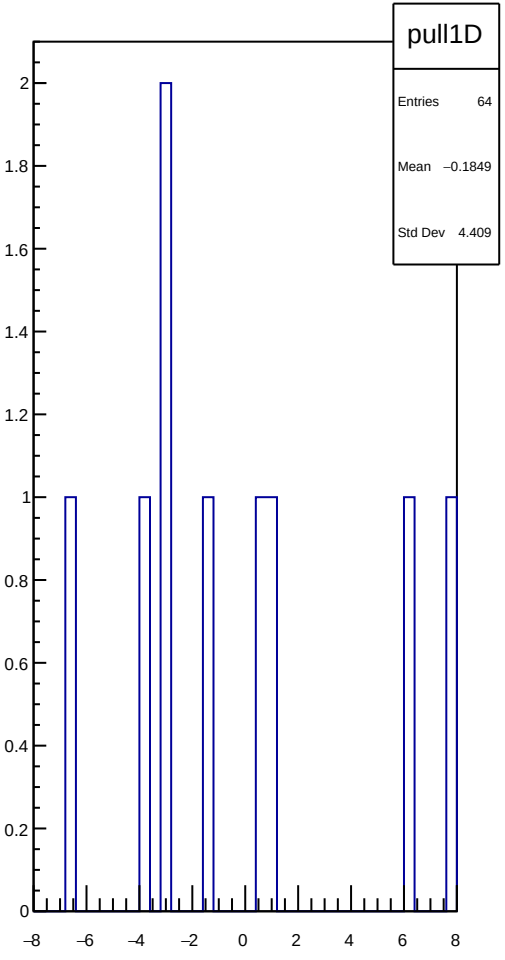

yield_sam5_rms vs run
χ² / ndf 9.318e+04 / 63
p0 0.03049 ± 2.882e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

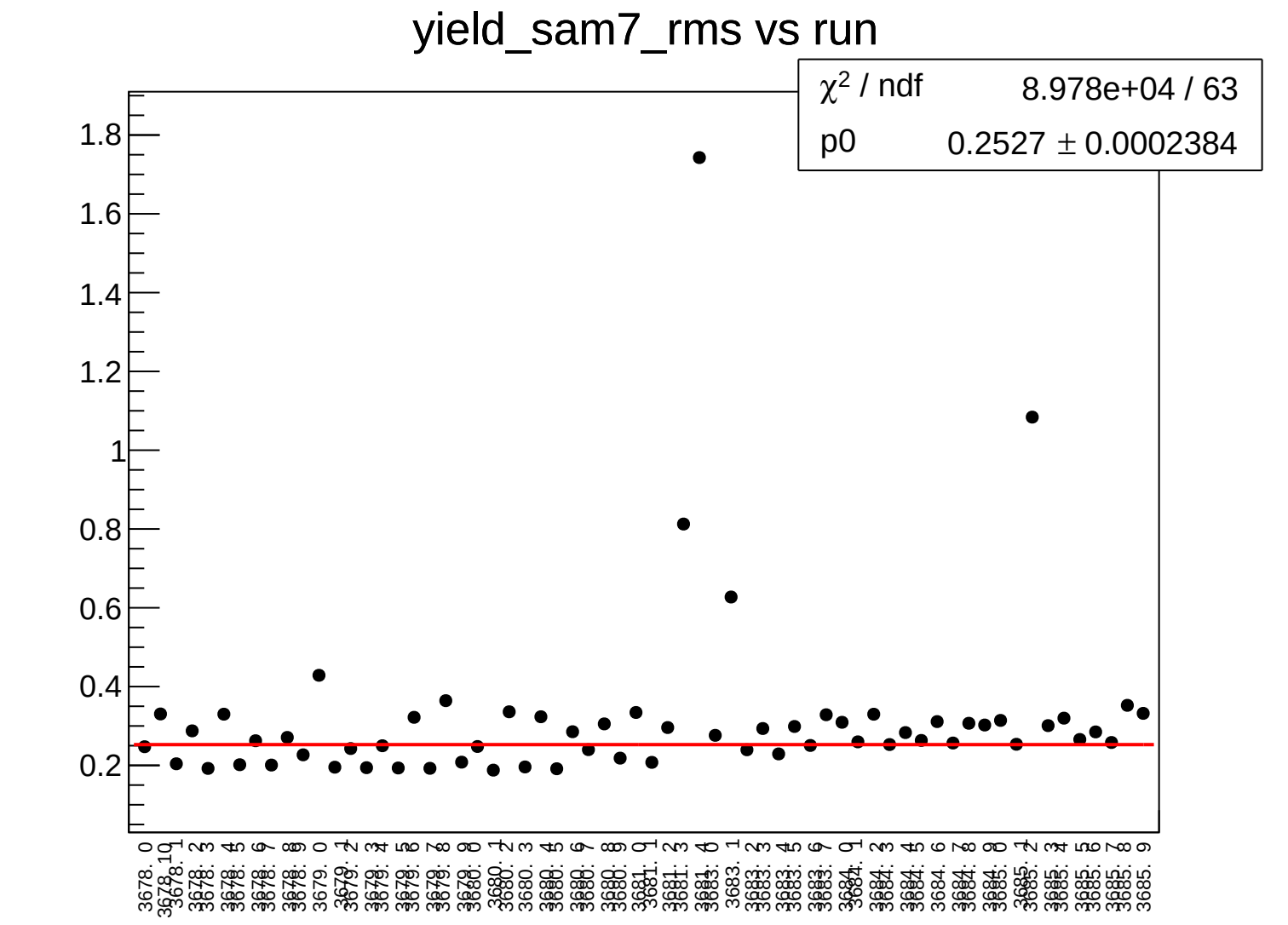

yield_sam6_mean vs run
χ² / ndf 5.147e+05 / 63
p0 16.21± 0.0001477
pull
Entries 64
Mean −103.2
Std Dev 128.2

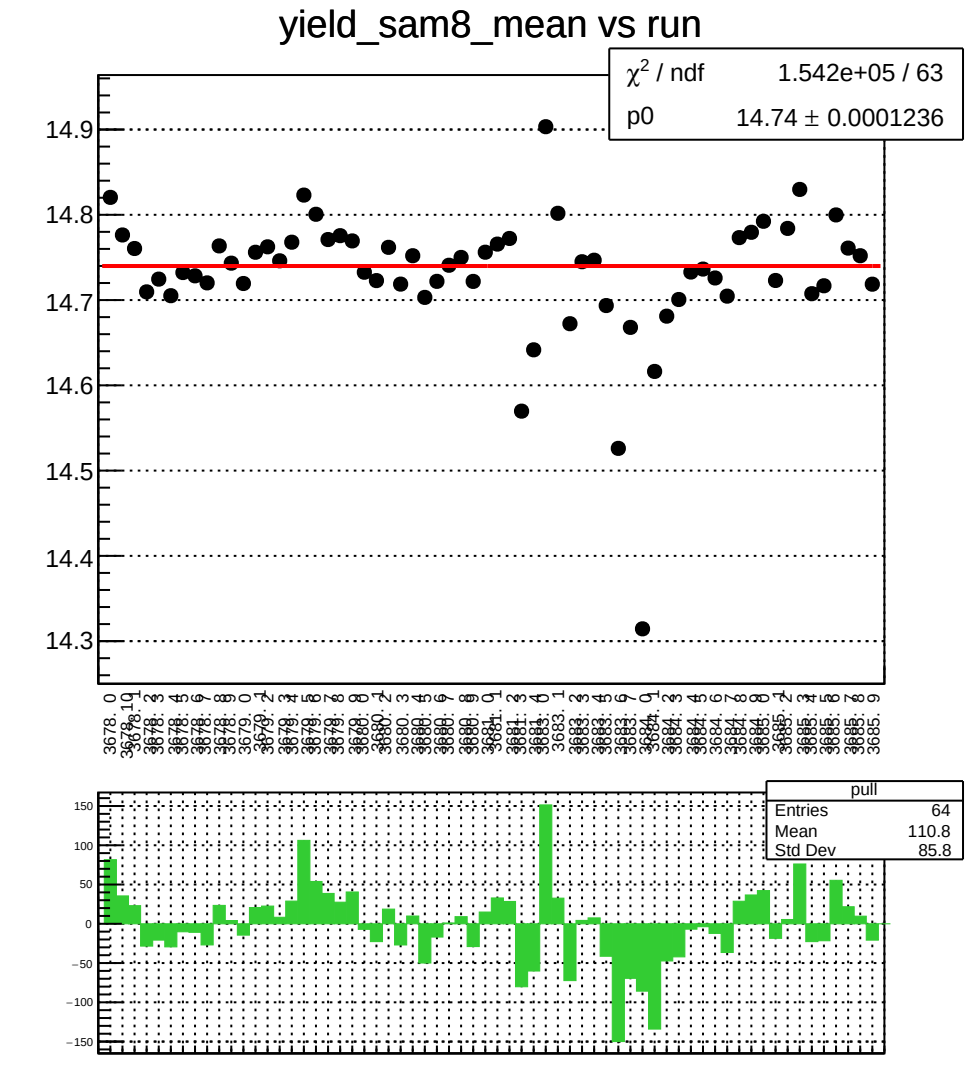

pull1D
Entries 64
Mean −2.019
Std Dev 1.594

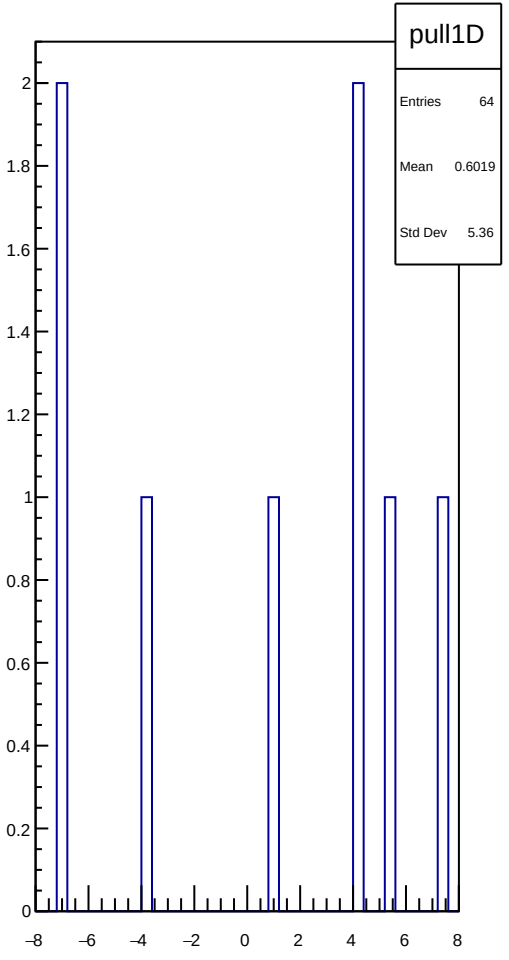

yield_sam6_rms vs run
χ² / ndf 7.761e+04 / 63
p0 0.1113 ± 0.0001044
1.2
1
0.8
0.6
0.4
0.2

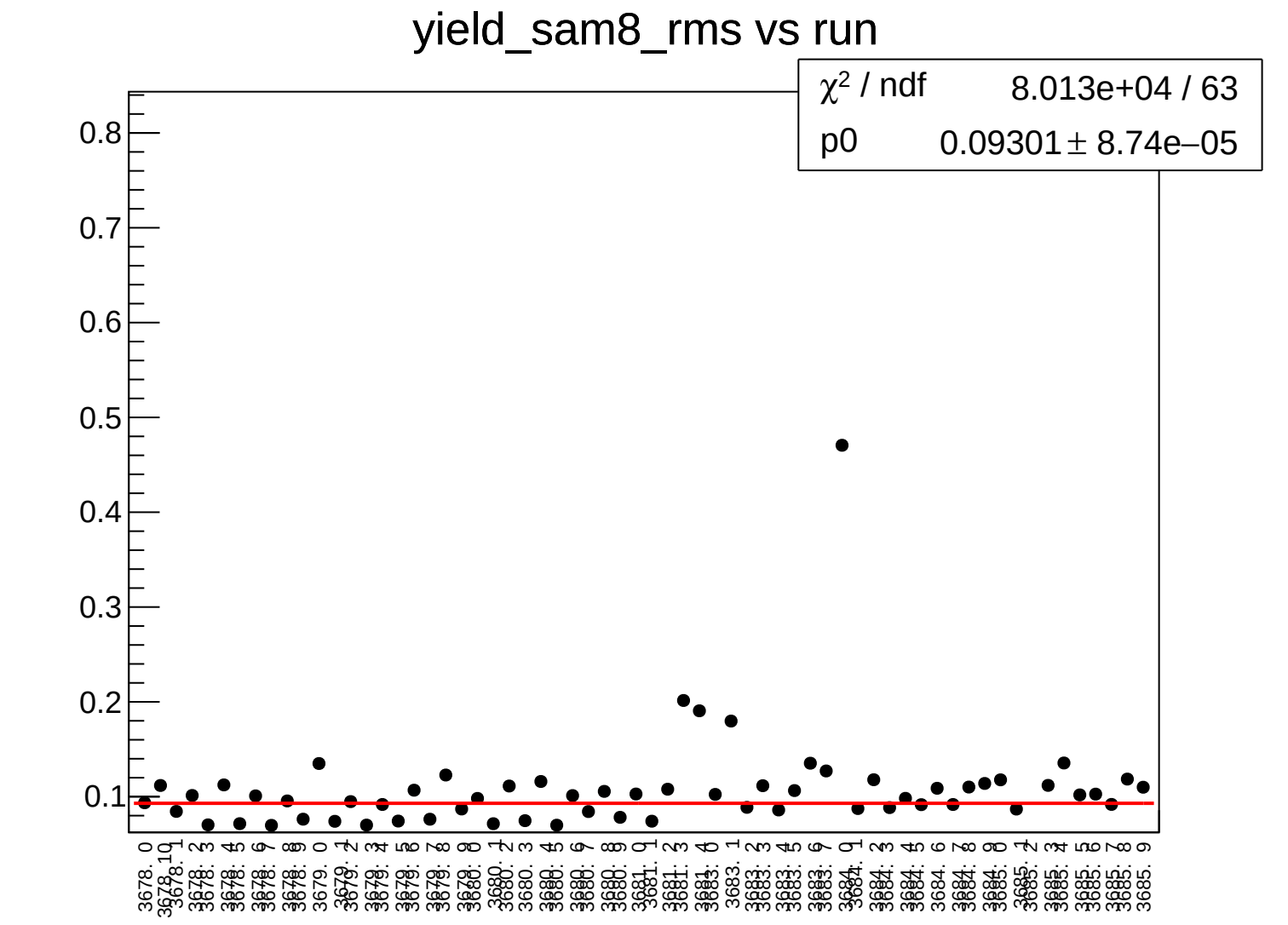

yield_sam7_mean vs run
χ² / ndf 2.06e+05 / 63
p0 36.77 ± 0.0003372
37.6
37.4
37.2
37
36.8
36.6
36.4
pull
Entries 64
Mean −2.017
Std Dev 35.45
150
100
50
0
−50
−100

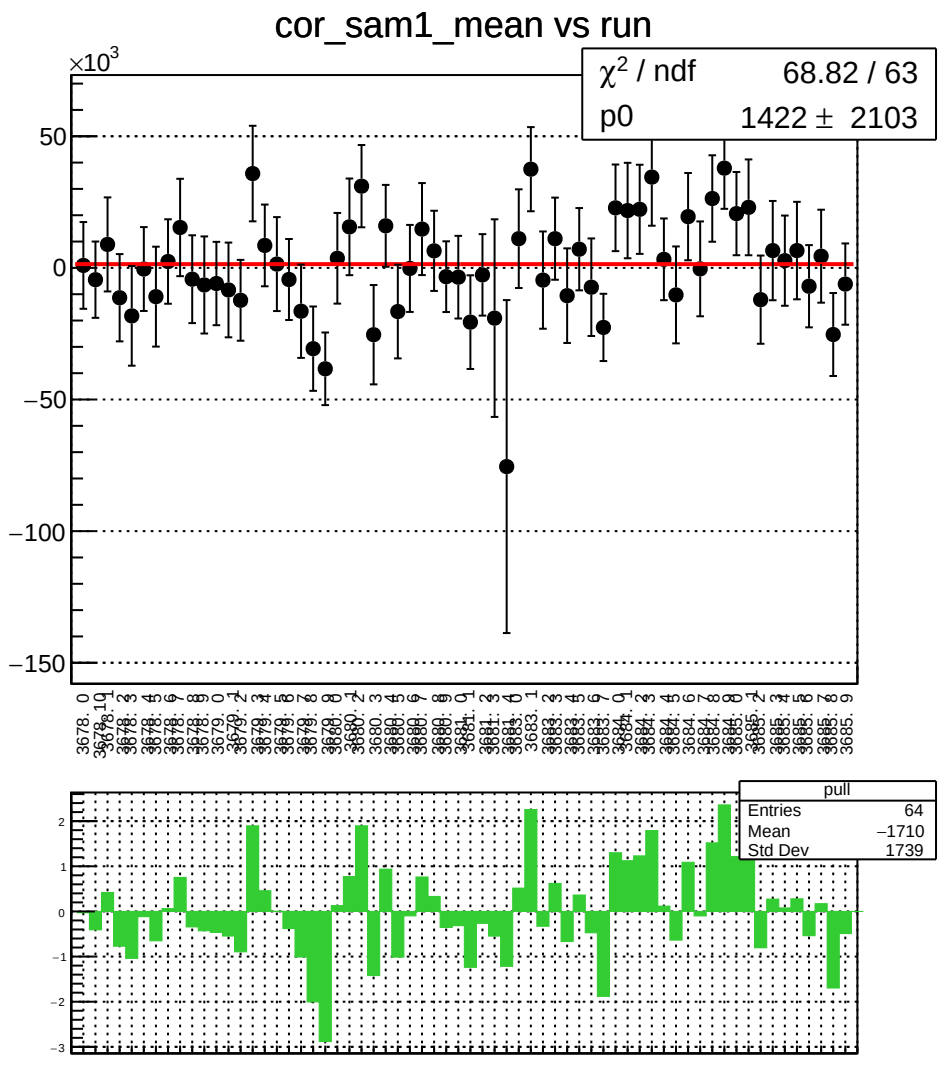

pull1D
Entries 64
Mean −0.1849
Std Dev 4.409
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

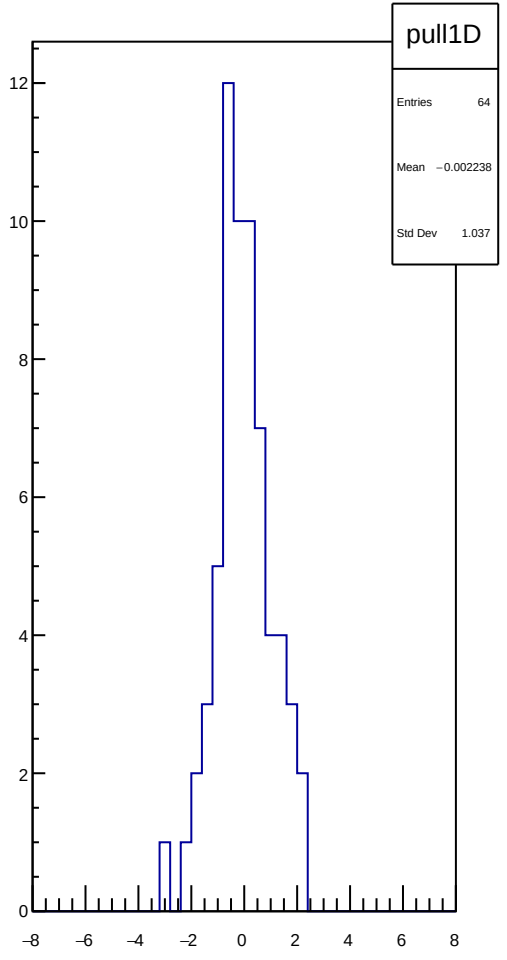

yield_sam7_rms vs run
$\chi^2$ / ndf 8.978e+04 / 63
p0 0.2527 ± 0.0002384
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
3678. 0
3678. 1
3678. 2
3678. 3
3678. 4
3678. 5
3678. 6
3678. 7
3678. 8
3678. 9
3679. 0
3679. 1
3679. 2
3679. 3
3679. 4
3679. 5
3679. 6
3679. 7
3679. 8
3680. 0
3680. 1
3680. 2
3680. 3
3680. 4
3680. 5
3680. 6
3680. 7
3680. 8
3680. 9
3681. 0
3681. 1
3681. 2
3681. 3
3681. 4
3681. 6
3683. 1
3683. 2
3683. 3
3683. 4
3683. 5
3683. 6
3683. 7
3684. 0
3684. 1
3684. 2
3684. 3
3684. 4
3684. 5
3684. 6
3684. 7
3684. 8
3684. 9
3685. 0
3685. 1
3685. 2
3685. 3
3685. 4
3685. 5
3685. 6
3685. 7
3685. 8
3685. 9

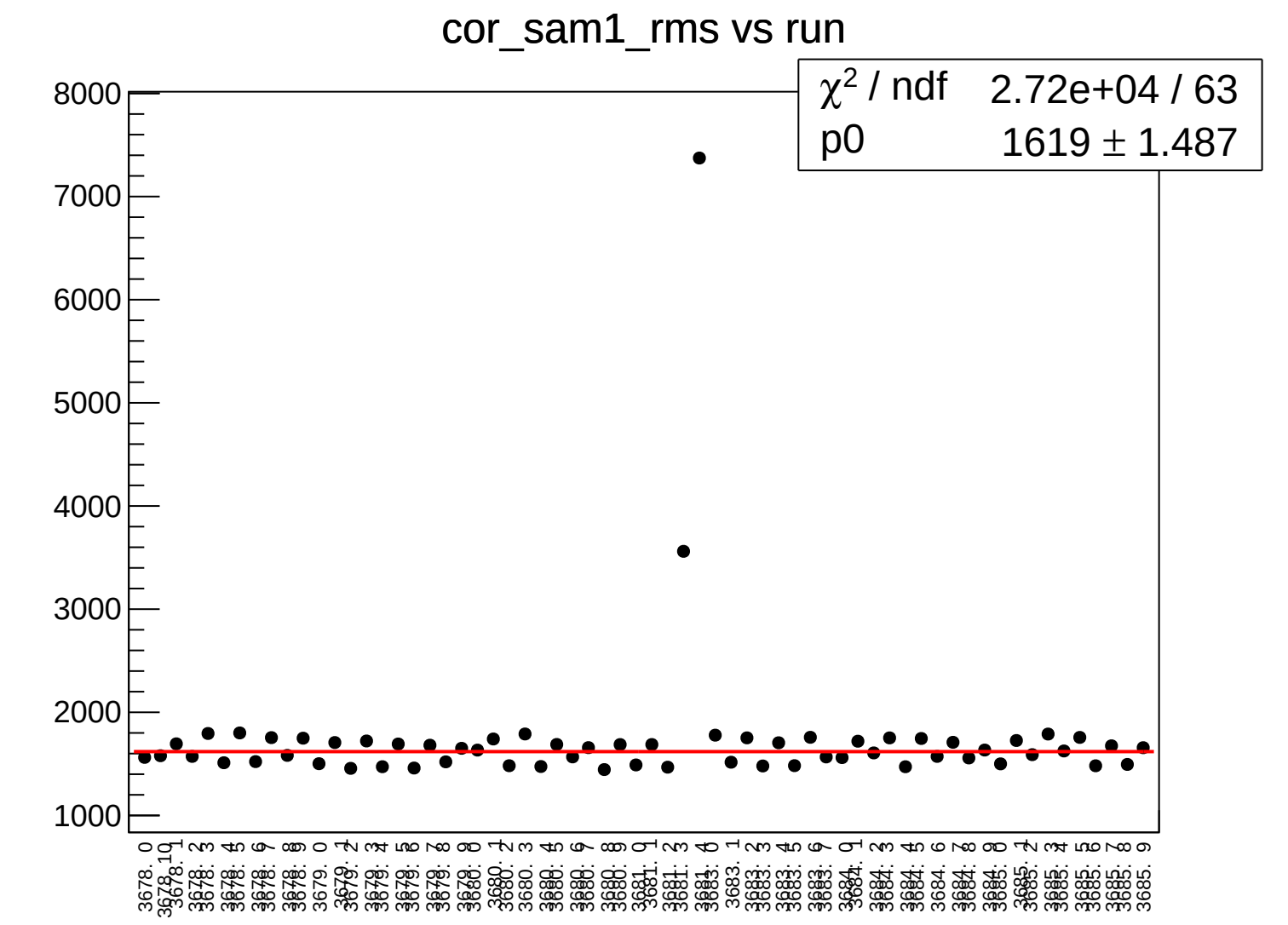

yield_sam8_mean vs run
χ² / ndf 1.542e+05 / 63
p0 14.74 ± 0.0001236
14.9
14.8
14.7
14.6
14.5
14.4
14.3
pull
Entries 64
Mean 110.8
Std Dev 85.8
150
100
50
0
−50
−100
−150

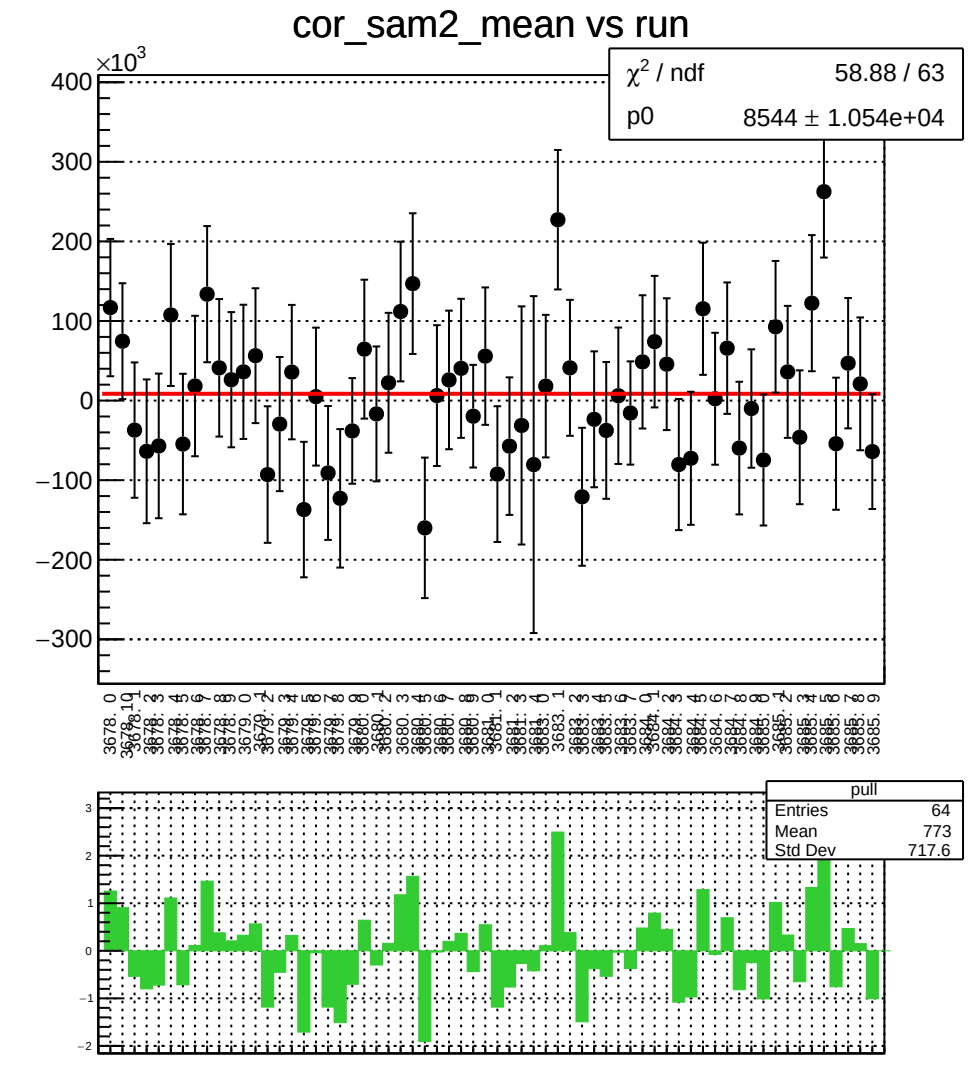

pull1D
Entries 64
Mean 0.6019
Std Dev 5.36
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

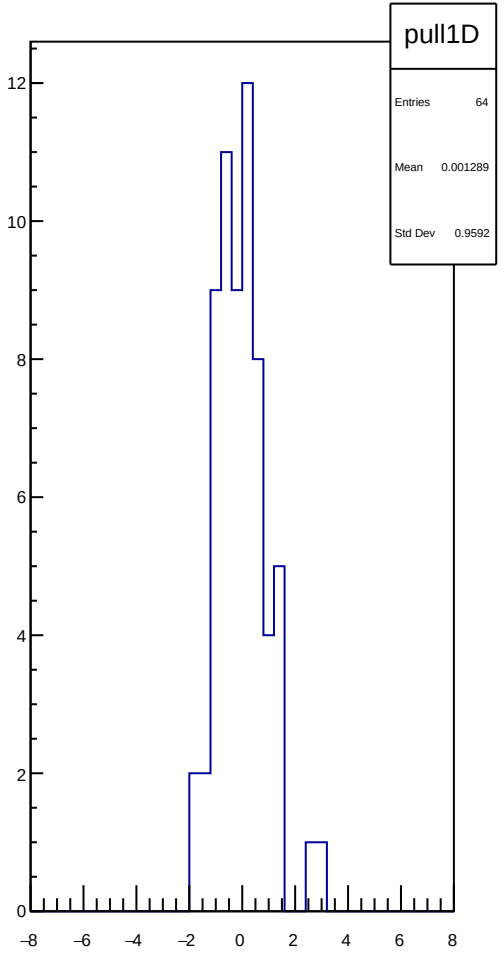

yield_sam8_rms vs run
χ² / ndf 8.013e+04 / 63
p0 0.09301 ± 8.74e–05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

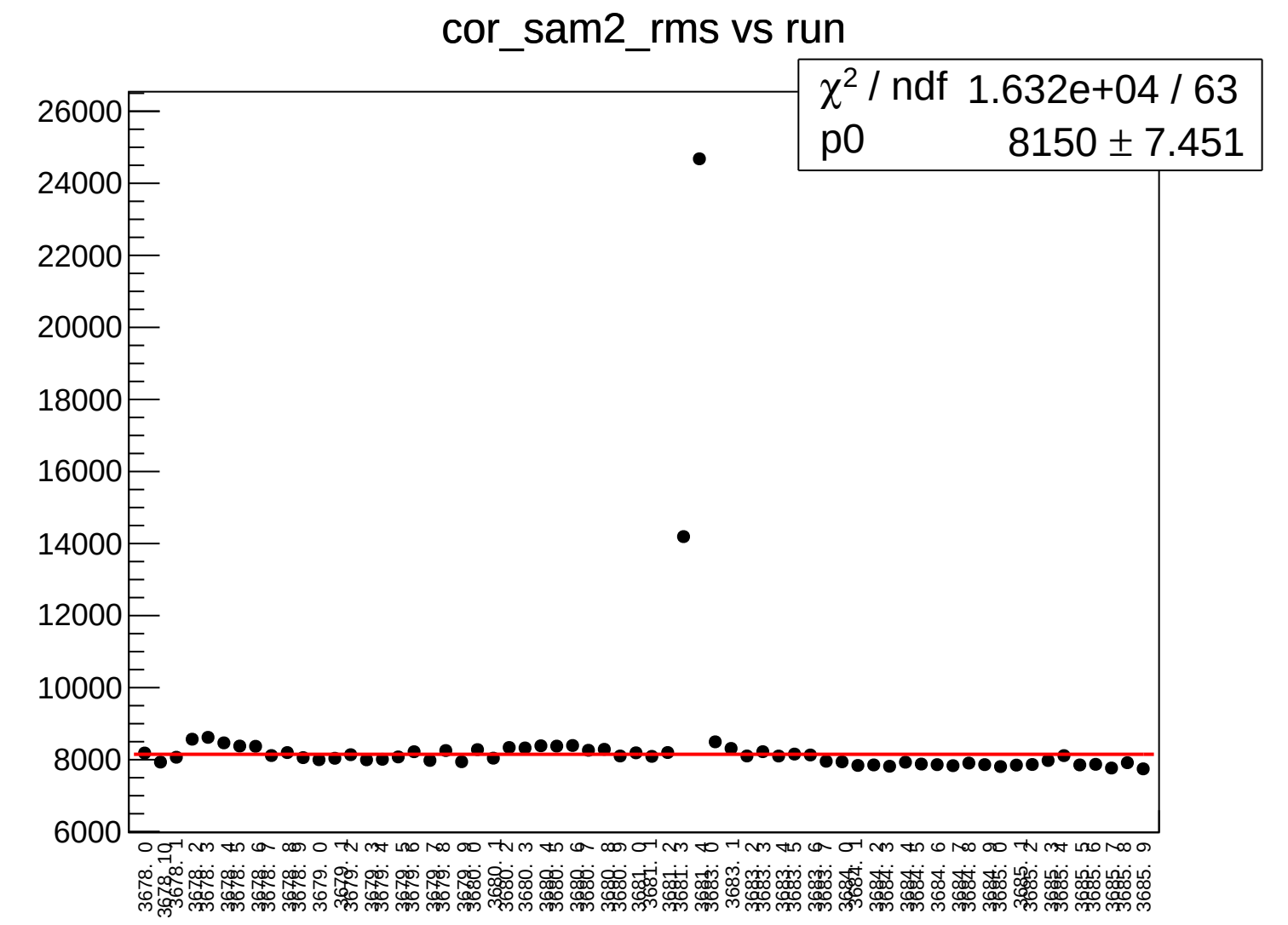

cor_sam1_mean vs run
×10^3
χ^2 / ndf 68.82 / 63
p0 1422 ± 2103
50
0
−50
−100
−150
pull
Entries 64
Mean −1710
Std Dev 1739
2
1
0
−1
−2
−3

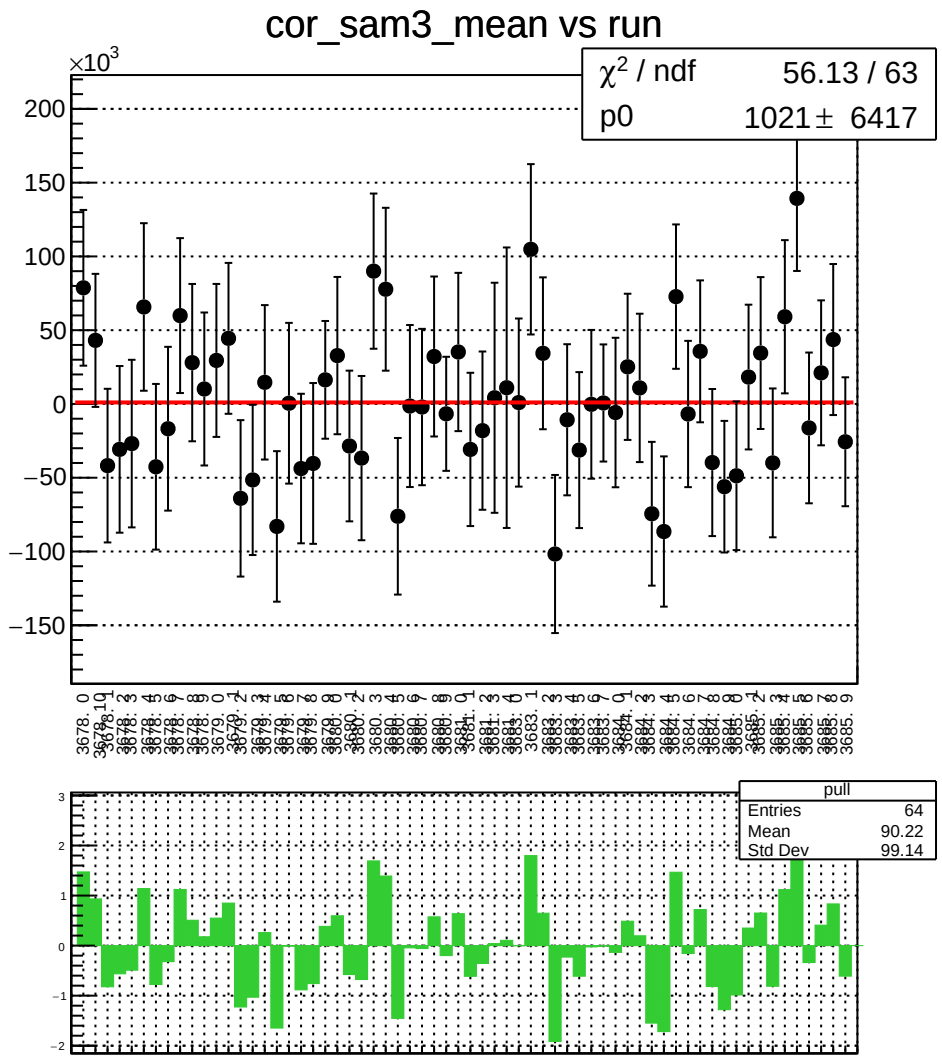

pull1D
Entries 64
Mean −0.002238
Std Dev 1.037
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

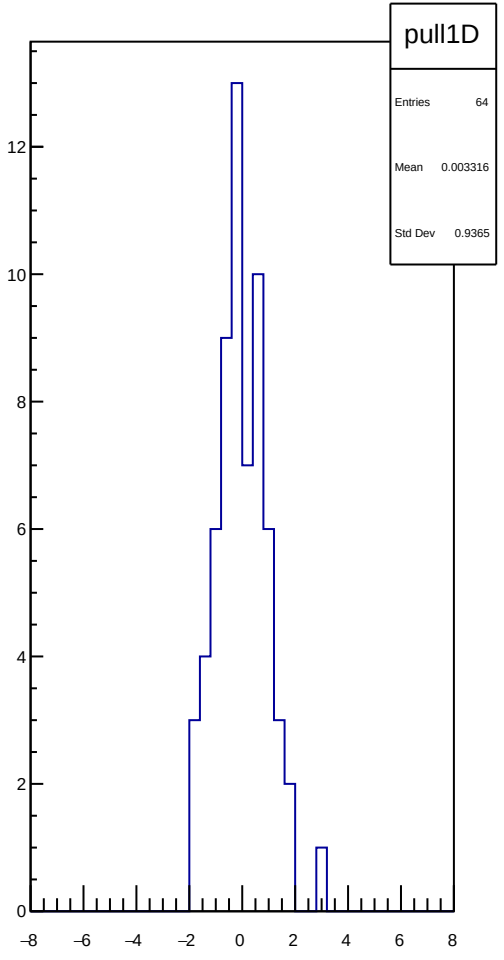

cor_sam1_rms vs run
χ² / ndf 2.72e+04 / 63
p0 1619 ± 1.487
8000
7000
6000
5000
4000
3000
2000
1000

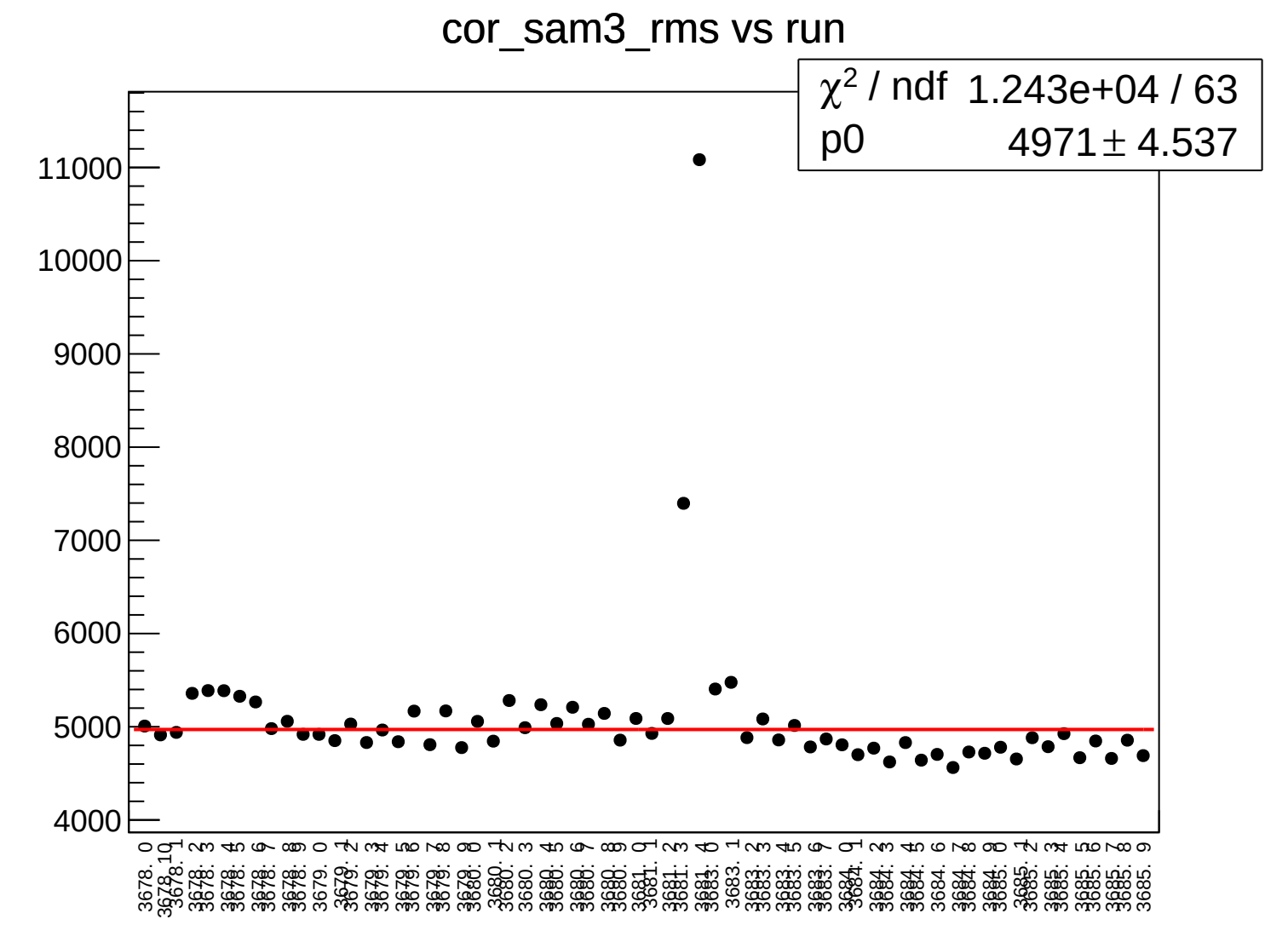

cor_sam2_mean vs run
χ² / ndf 58.88 / 63
p0 8544 ± 1.054e+04
×10³
pull
Entries 64
Mean 773
Std Dev 717.6

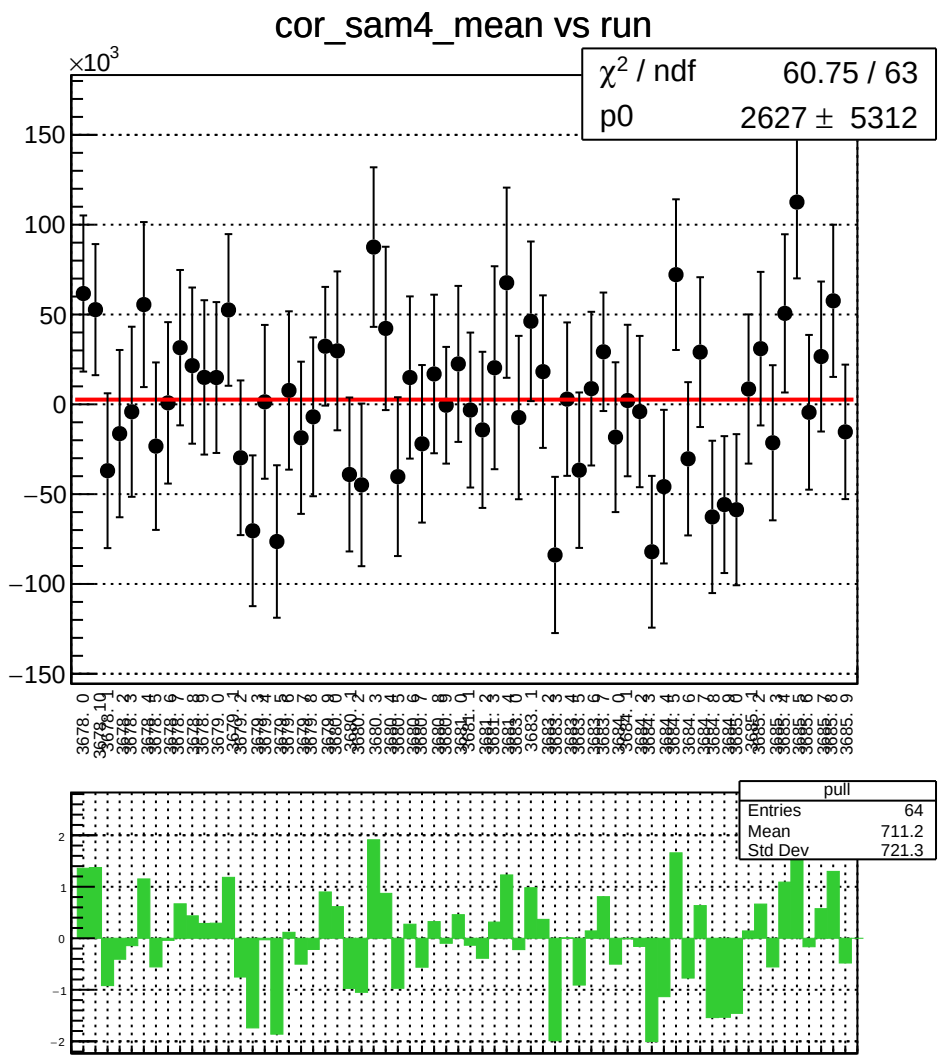

pull1D
Entries 64
Mean 0.001289
Std Dev 0.9592

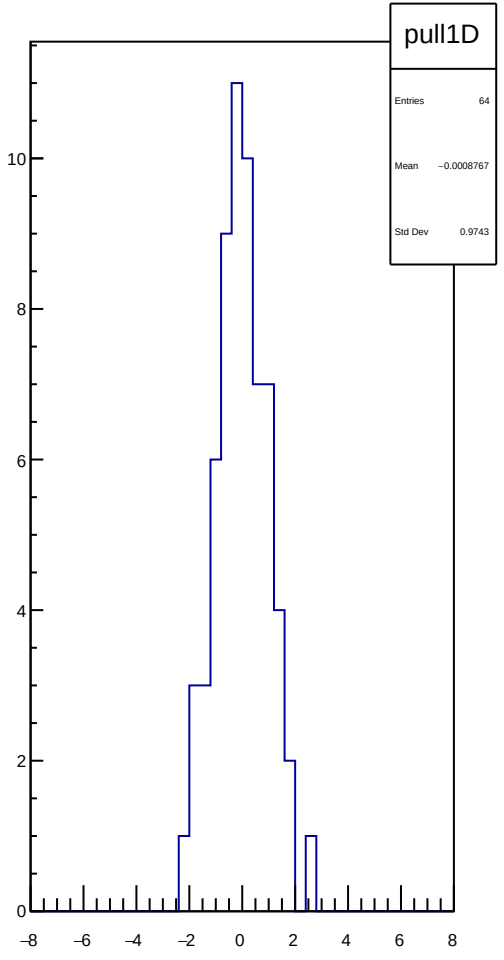

cor_sam2_rms vs run
χ² / ndf 1.632e+04 / 63
p0 8150 ± 7.451
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000

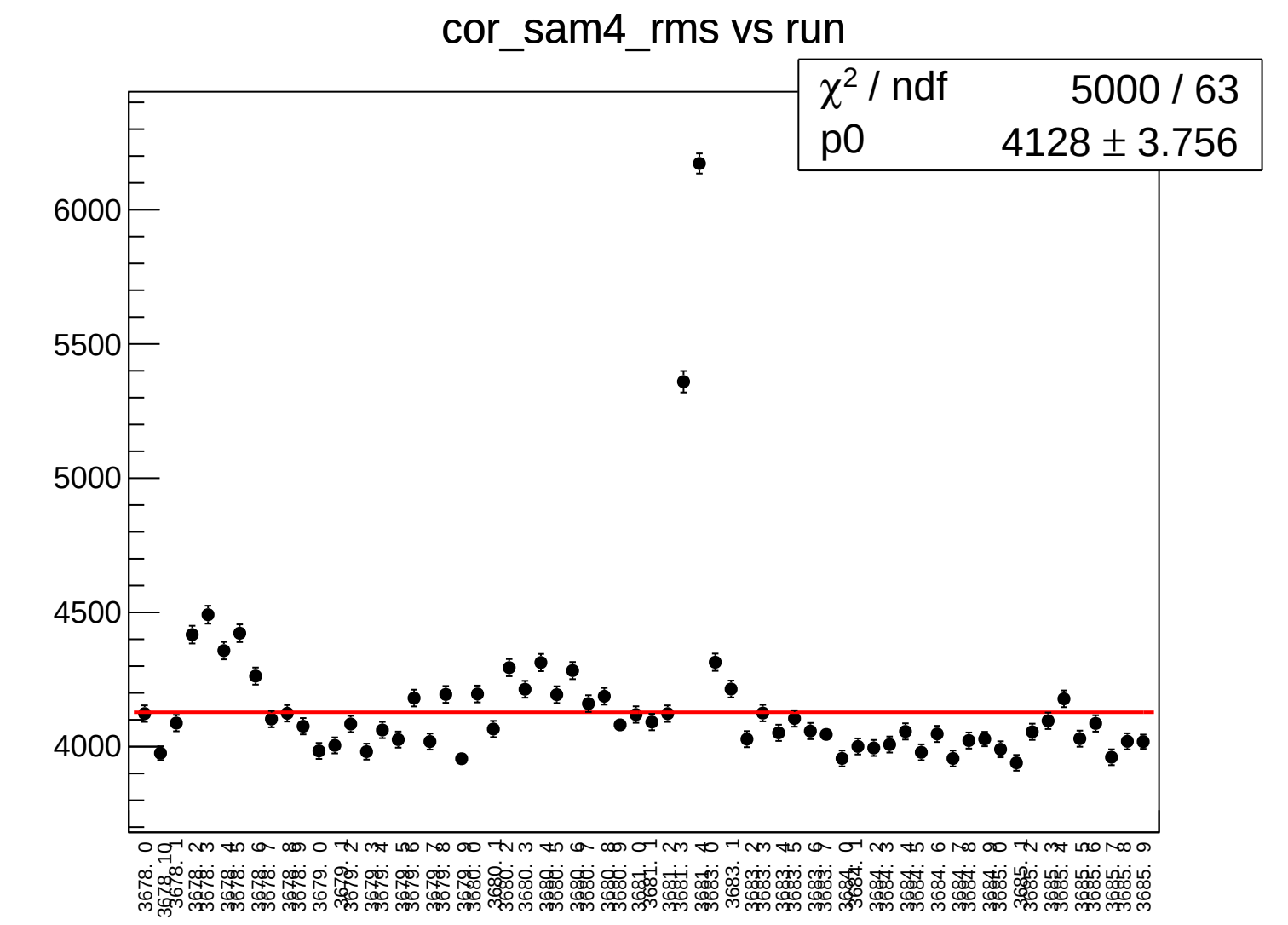

cor_sam3_mean vs run
×10^3
χ² / ndf 56.13 / 63
p0 1021 ± 6417
pull
Entries 64
Mean 90.22
Std Dev 99.14

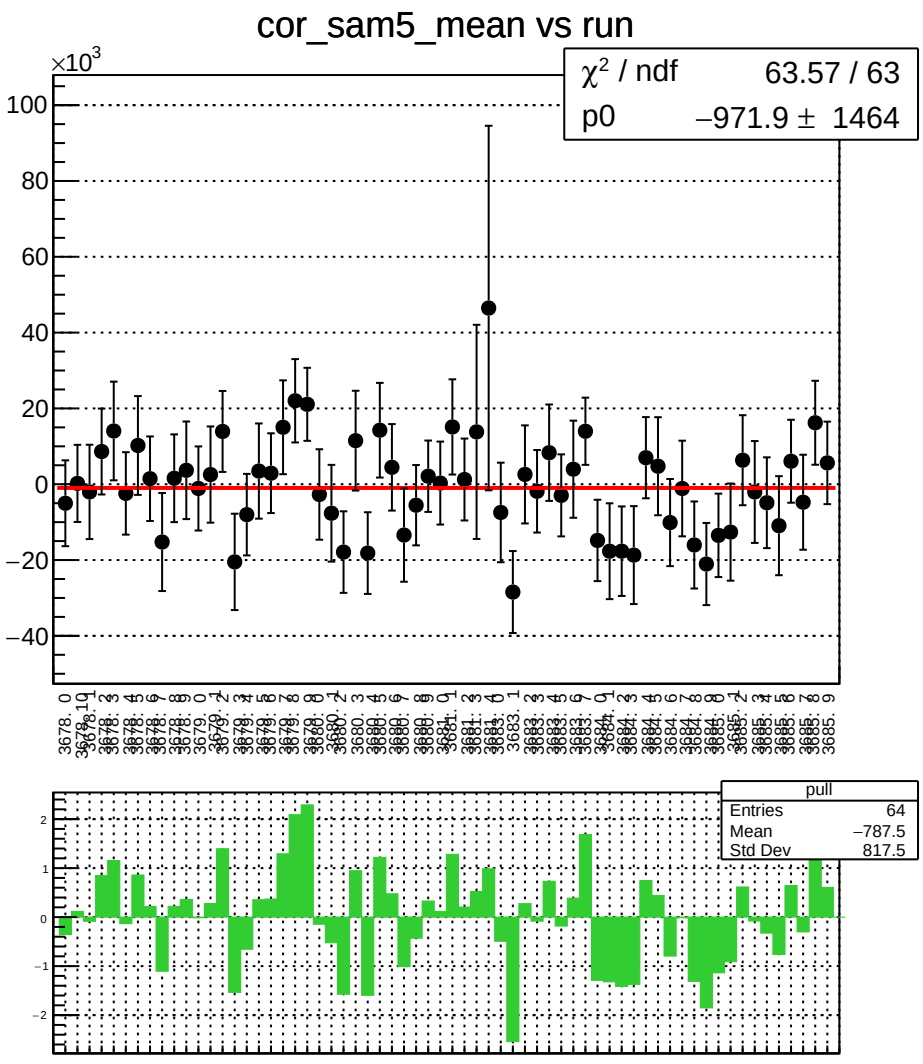

pull1D
Entries 64
Mean 0.003316
Std Dev 0.9365

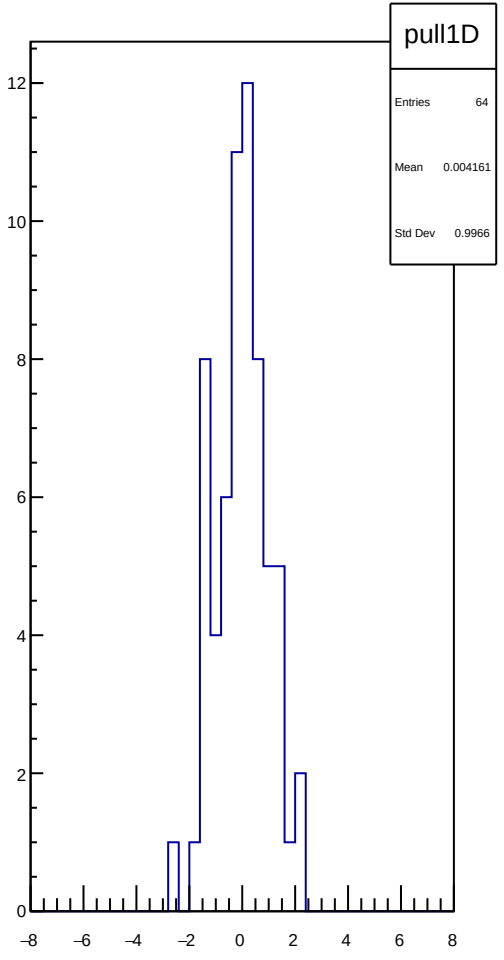

cor_sam3_rms vs run
χ² / ndf 1.243e+04 / 63
p0 4971 ± 4.537
11000
10000
9000
8000
7000
6000
5000
4000

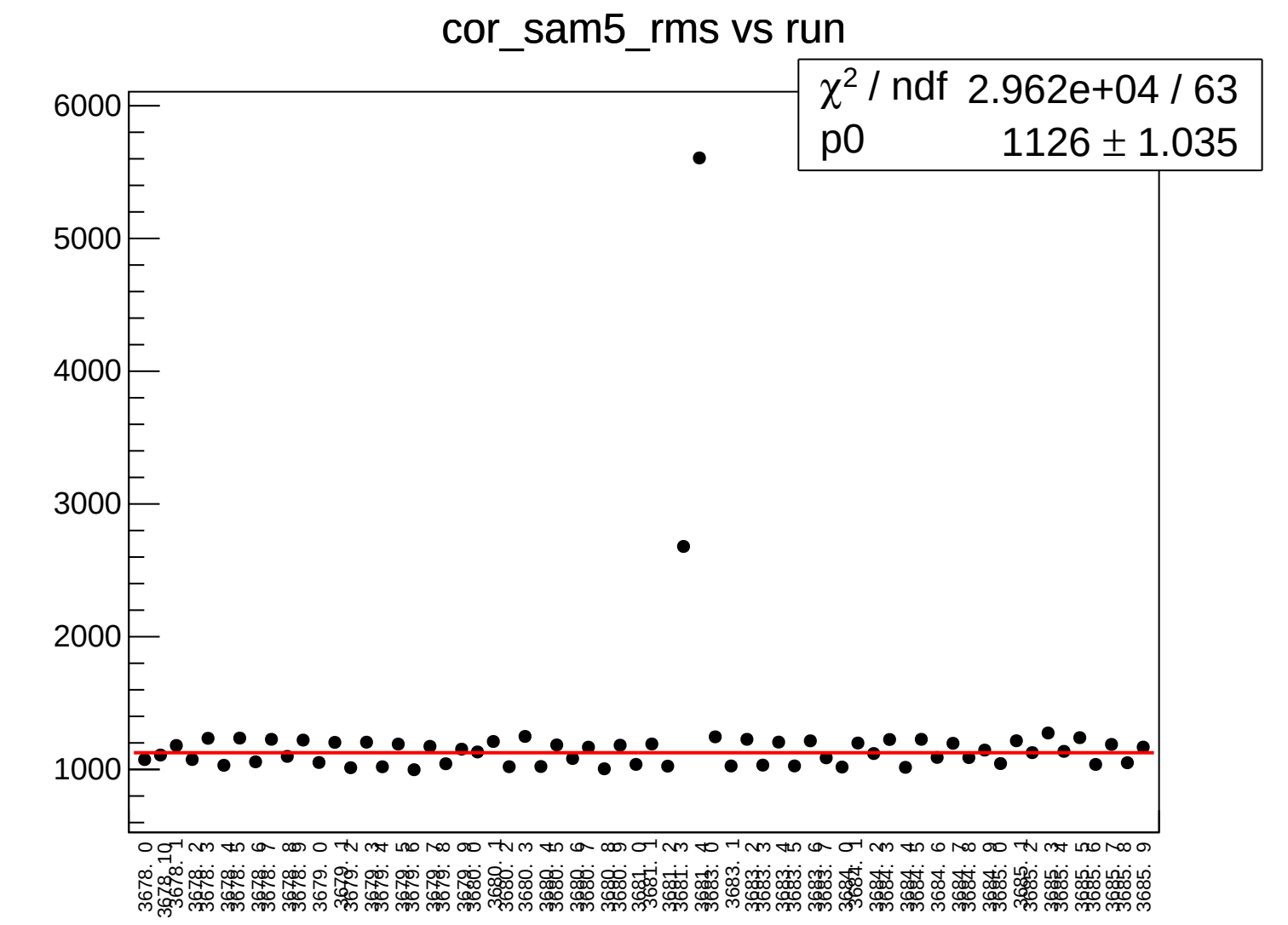

cor_sam4_mean vs run
×10^3
χ^2 / ndf 60.75 / 63
p0 2627 ± 5312
150
100
50
0
−50
−100
−150
pull
Entries 64
Mean 711.2
Std Dev 721.3
2
1
0
−1
−2

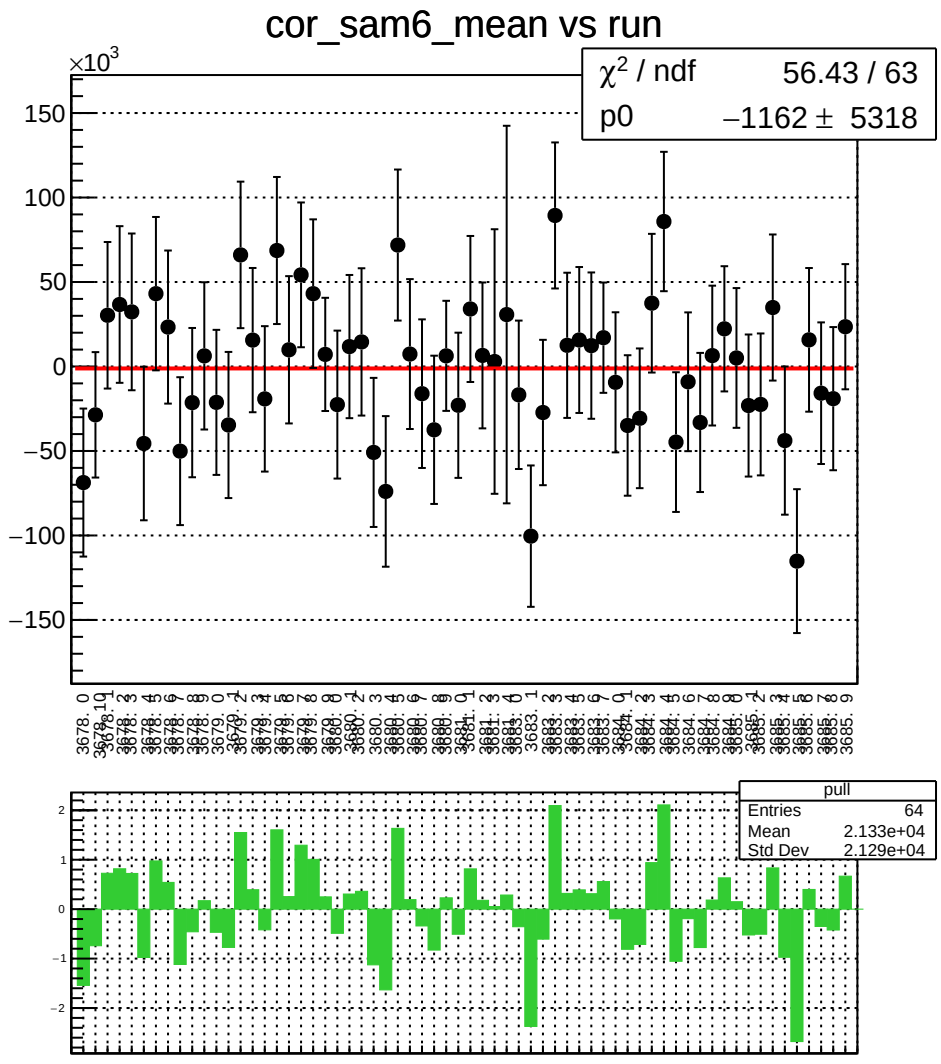

pull1D
Entries 64
Mean −0.0008767
Std Dev 0.9743
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

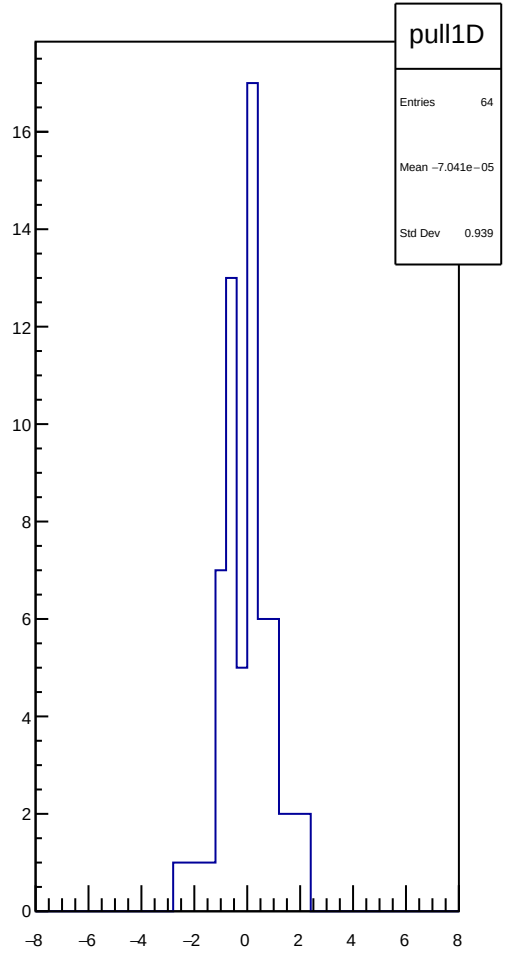

cor_sam4_rms vs run
χ² / ndf 5000 / 63
p0 4128 ± 3.756
6000
5500
5000
4500
4000

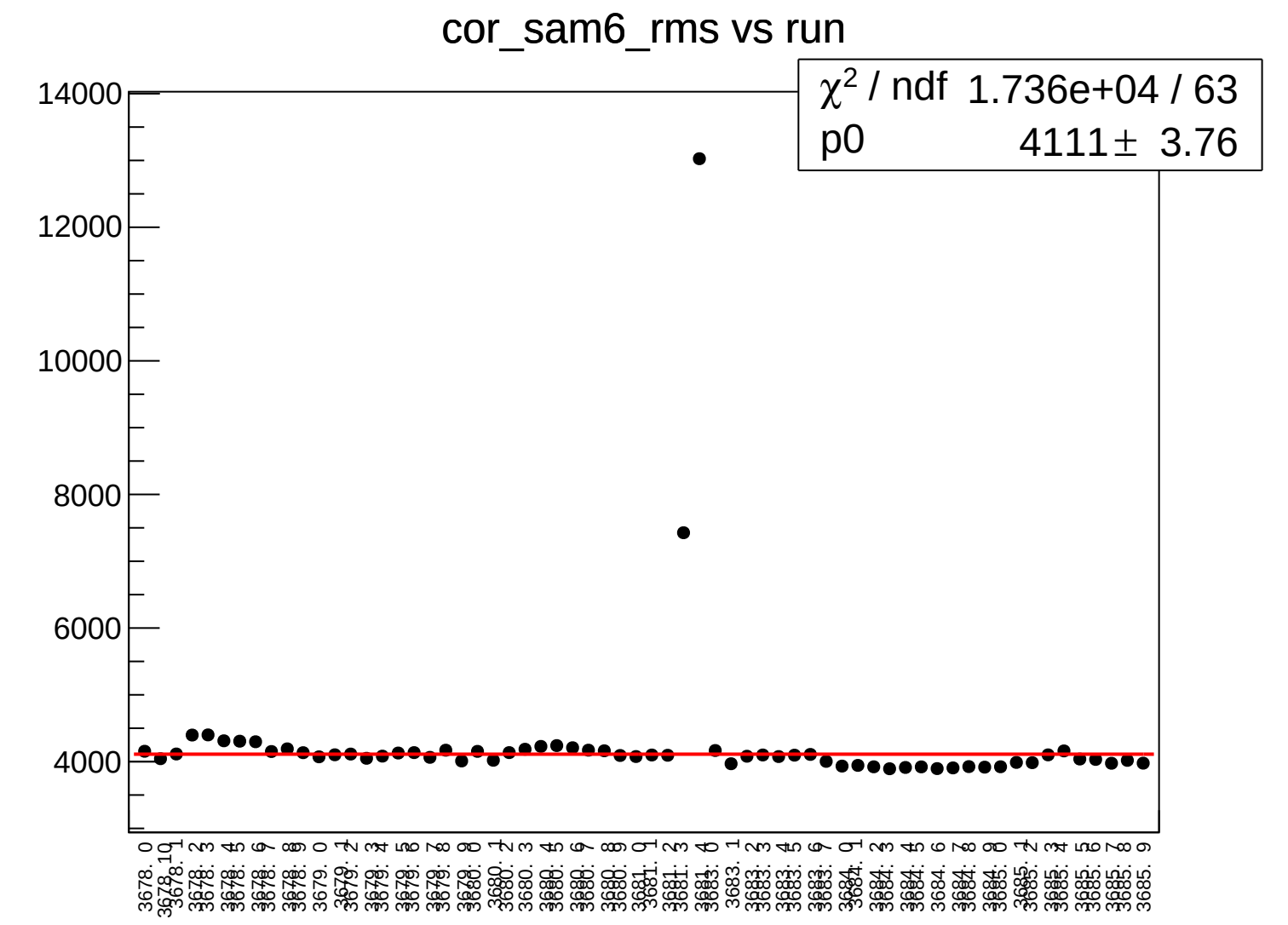

cor_sam5_mean vs run
×10^3
χ² / ndf 63.57 / 63
p0 −971.9 ± 1464
pull
Entries 64
Mean −787.5
Std Dev 817.5

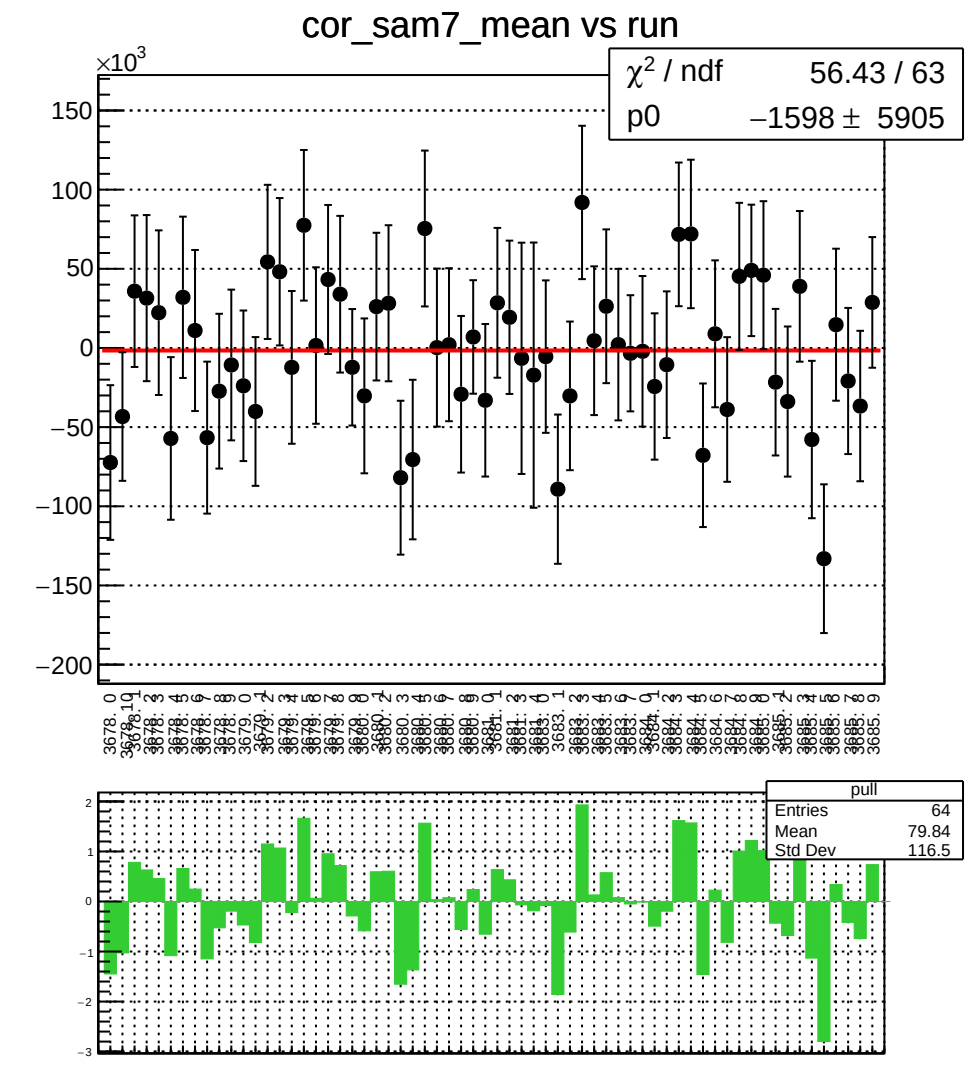

pull1D
Entries 64
Mean 0.004161
Std Dev 0.9966

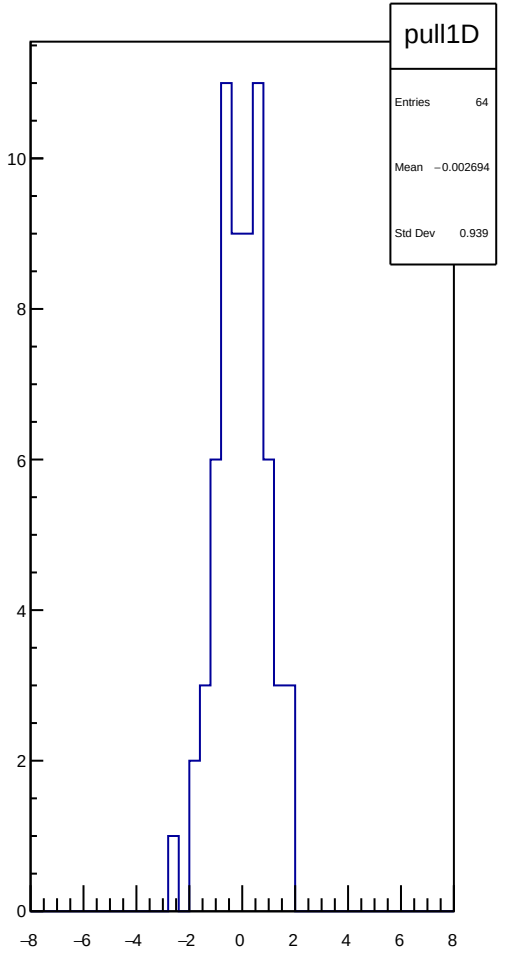

cor_sam5_rms vs run
$\chi^2$ / ndf 2.962e+04 / 63
p0 1126 ± 1.035
6000
5000
4000
3000
2000
1000

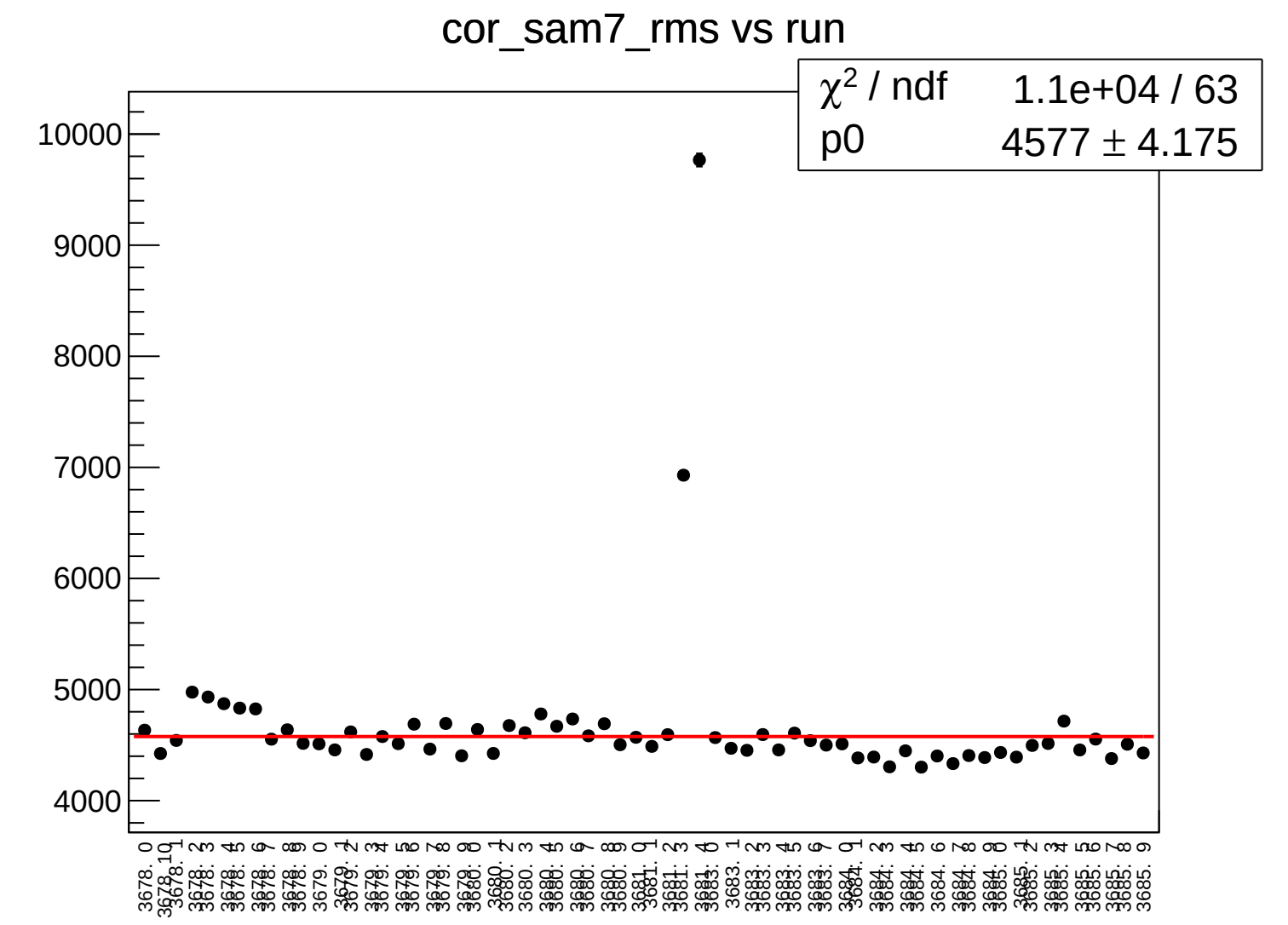

cor_sam6_mean vs run
×10^3
χ^2 / ndf 56.43 / 63
p0 −1162 ± 5318
150
100
50
0
−50
−100
−150
pull
Entries 64
Mean 2.133e+04
Std Dev 2.129e+04
2
1
0
−1
−2

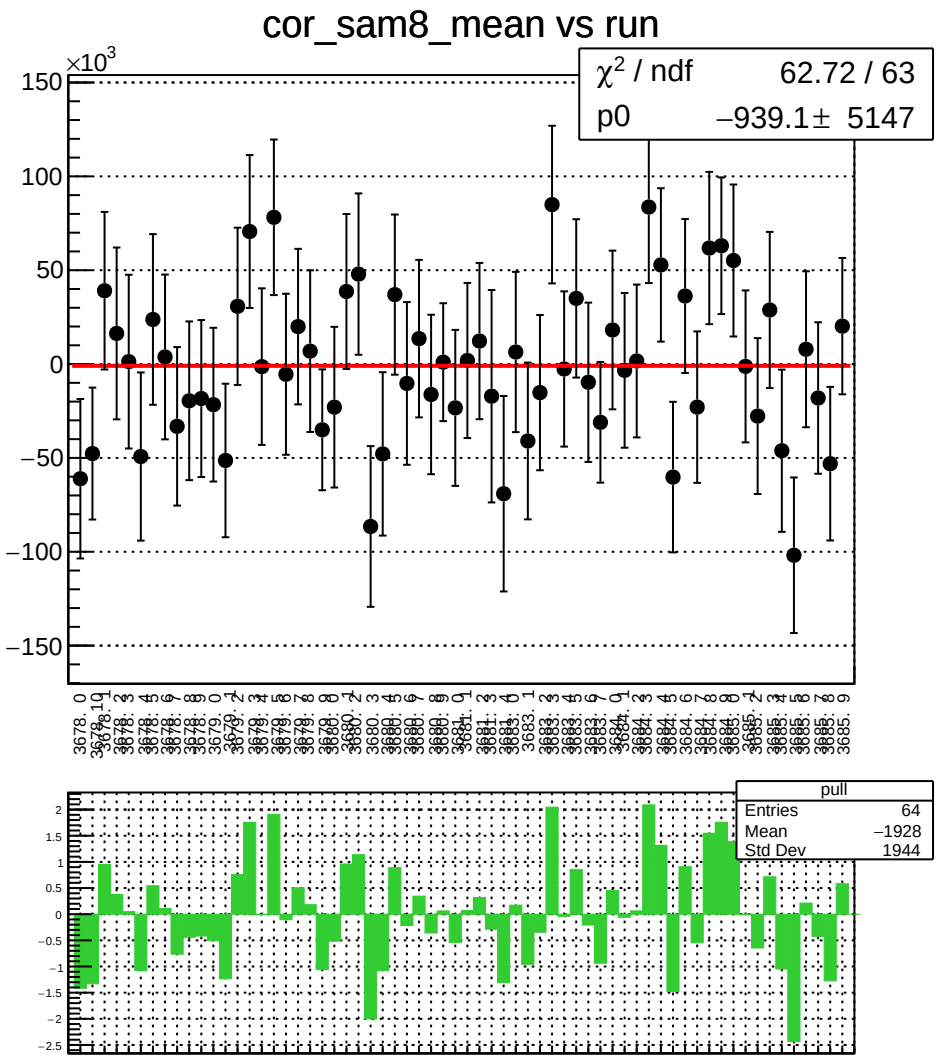

pull1D
Entries 64
Mean −7.041e−05
Std Dev 0.939
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

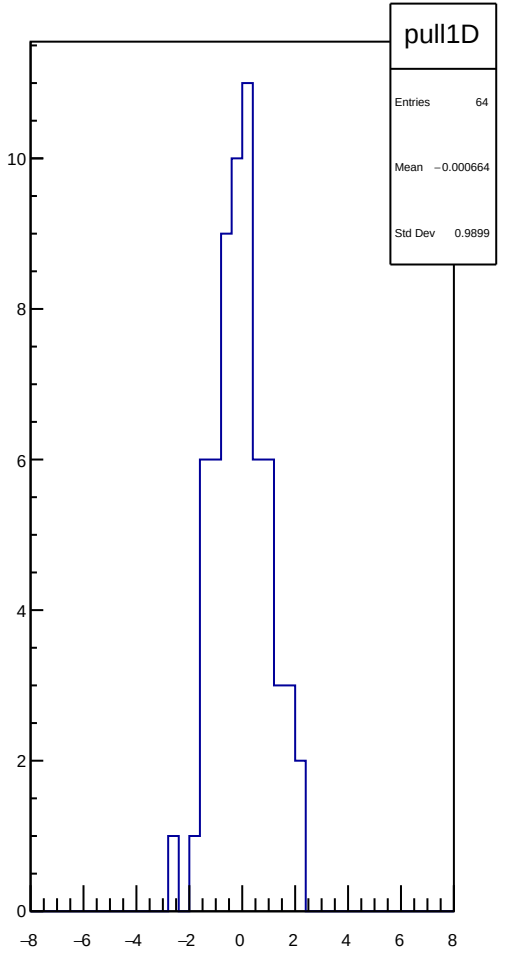

cor_sam6_rms vs run
χ² / ndf 1.736e+04 / 63
p0 4111 ± 3.76
14000
12000
10000
8000
6000
4000

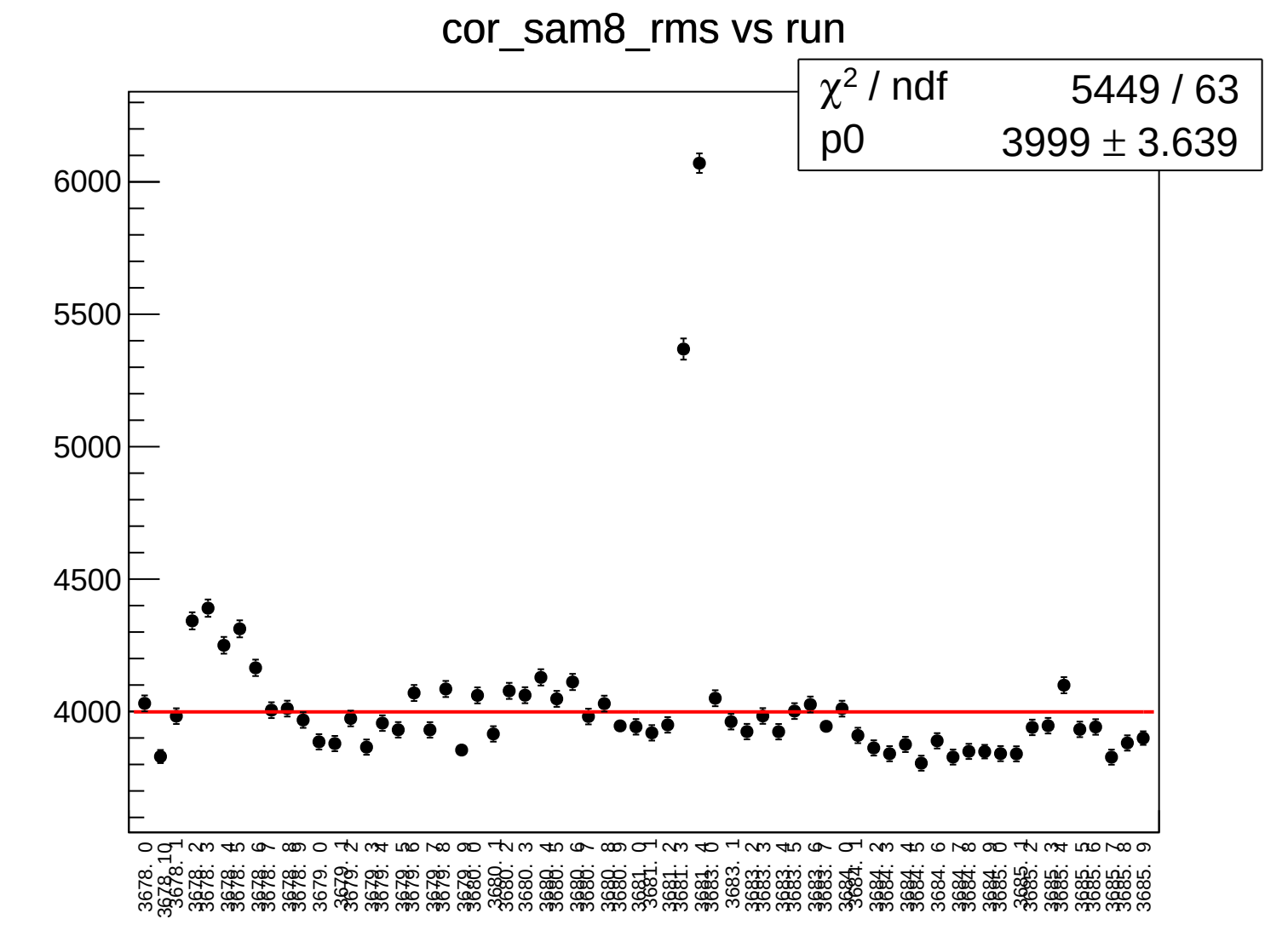

cor_sam7_mean vs run
×10^3
χ^2 / ndf 56.43 / 63
p0 −1598 ± 5905
150
100
50
0
−50
−100
−150
−200
pull
Entries 64
Mean 79.84
Std Dev 116.5
2
1
0
−1
−2
−3

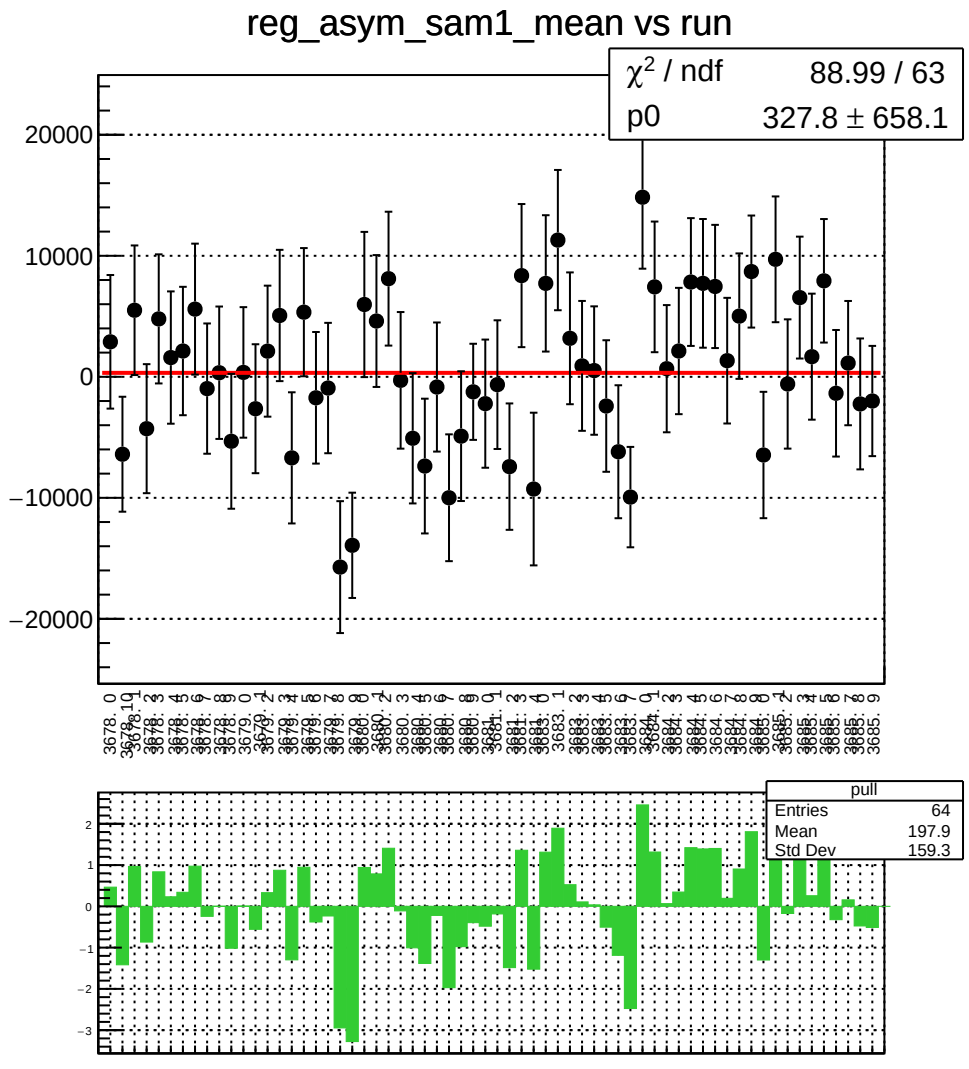

pull1D
Entries 64
Mean −0.002694
Std Dev 0.939
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

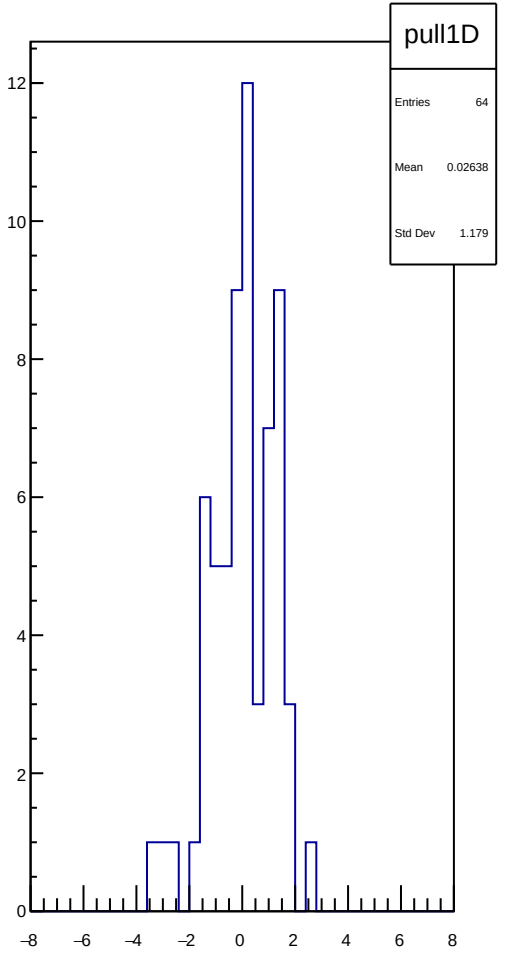

cor_sam7_rms vs run
χ² / ndf 1.1e+04 / 63
p0 4577 ± 4.175
10000
9000
8000
7000
6000
5000
4000

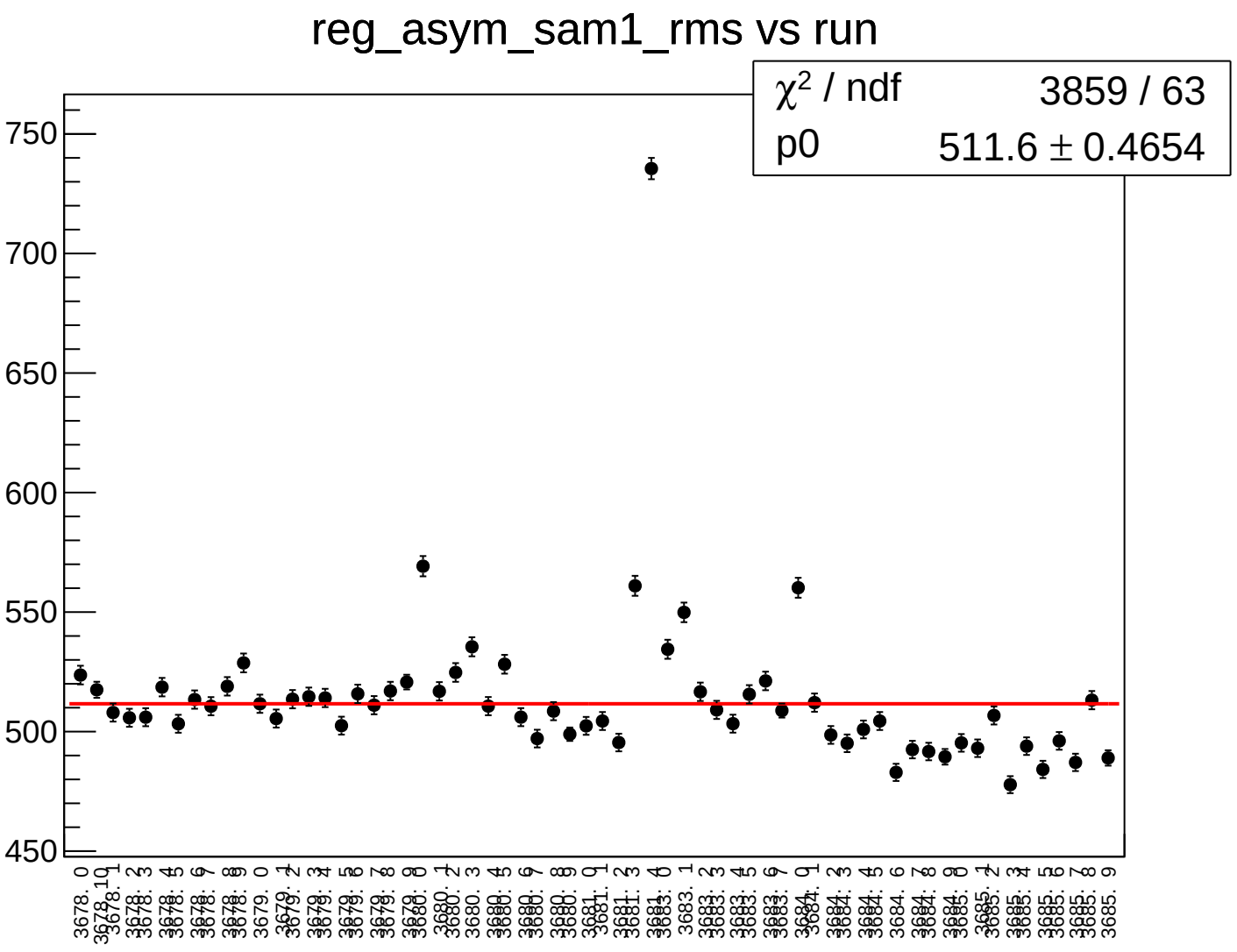

cor_sam8_mean vs run
×10^3
χ² / ndf 62.72 / 63
p0 −939.1± 5147
150
100
50
0
−50
−100
−150
pull
Entries 64
Mean −1928
Std Dev 1944
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

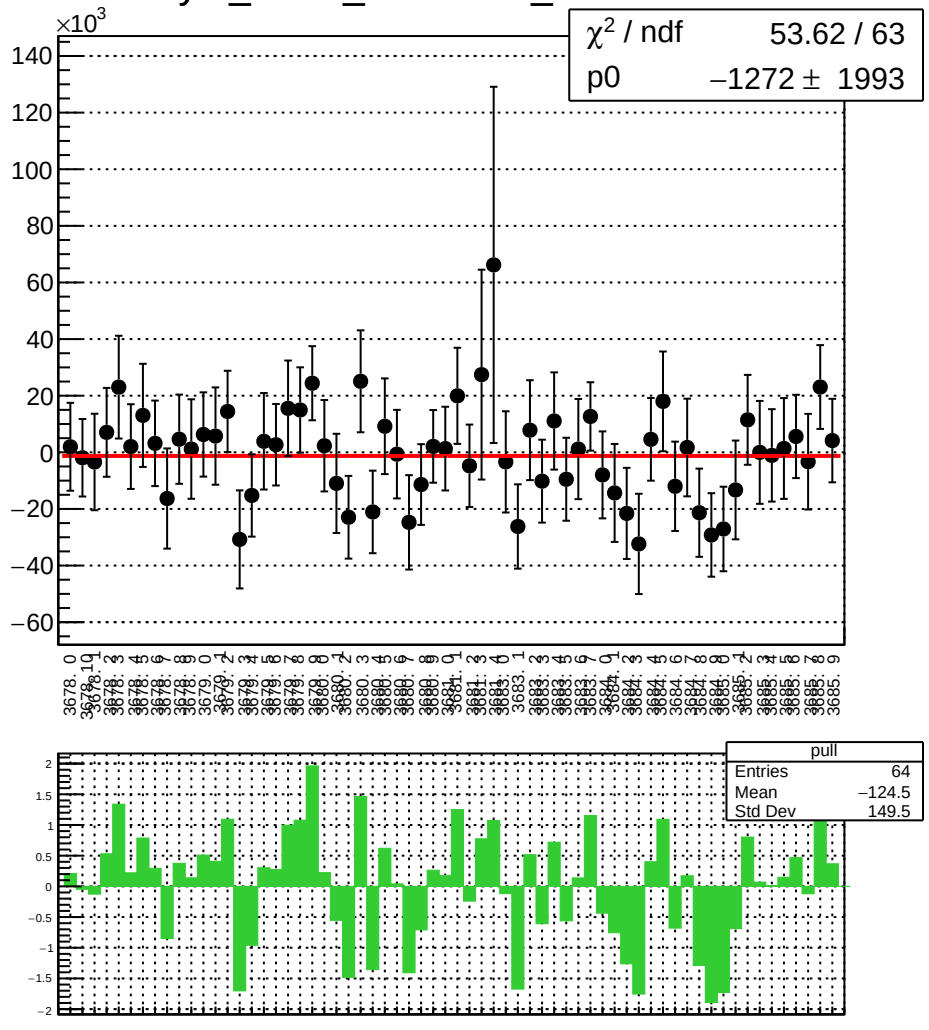

pull1D
Entries 64
Mean −0.000664
Std Dev 0.9899
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

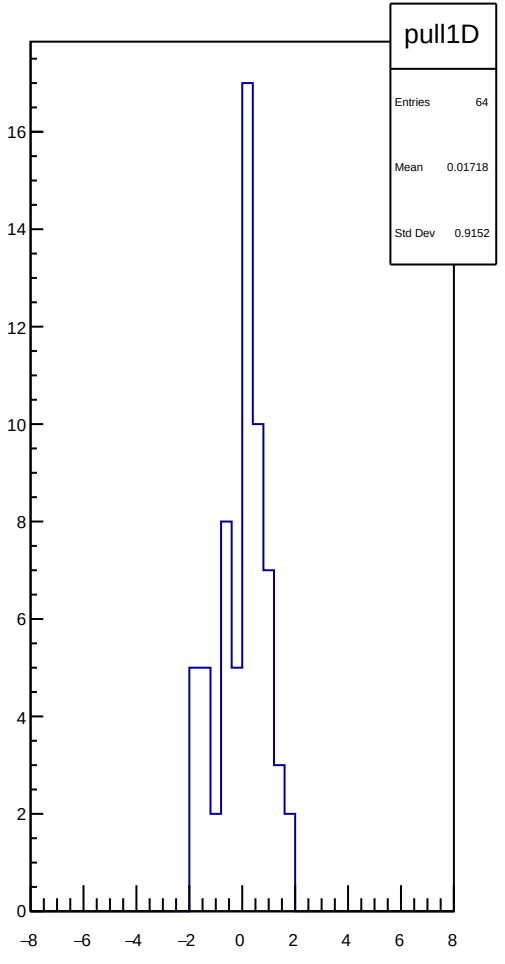

cor_sam8_rms vs run
χ² / ndf 5449 / 63
p0 3999 ± 3.639
6000
5500
5000
4500
4000

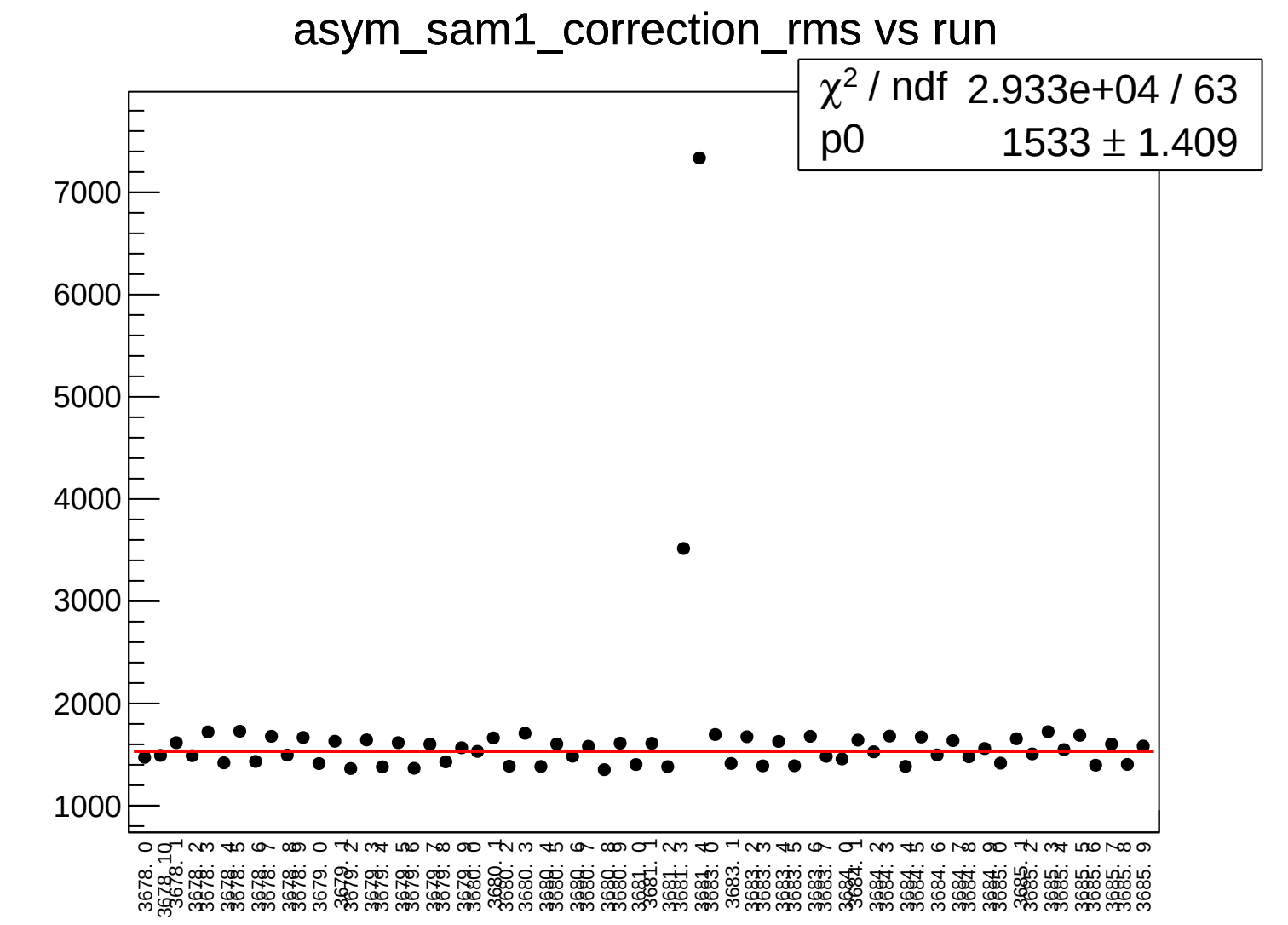

reg_asym_sam1_mean vs run
χ² / ndf 88.99 / 63
p0 327.8 ± 658.1
20000
10000
0
−10000
−20000
pull
Entries 64
Mean 197.9
Std Dev 159.3
2
1
0
−1
−2
−3

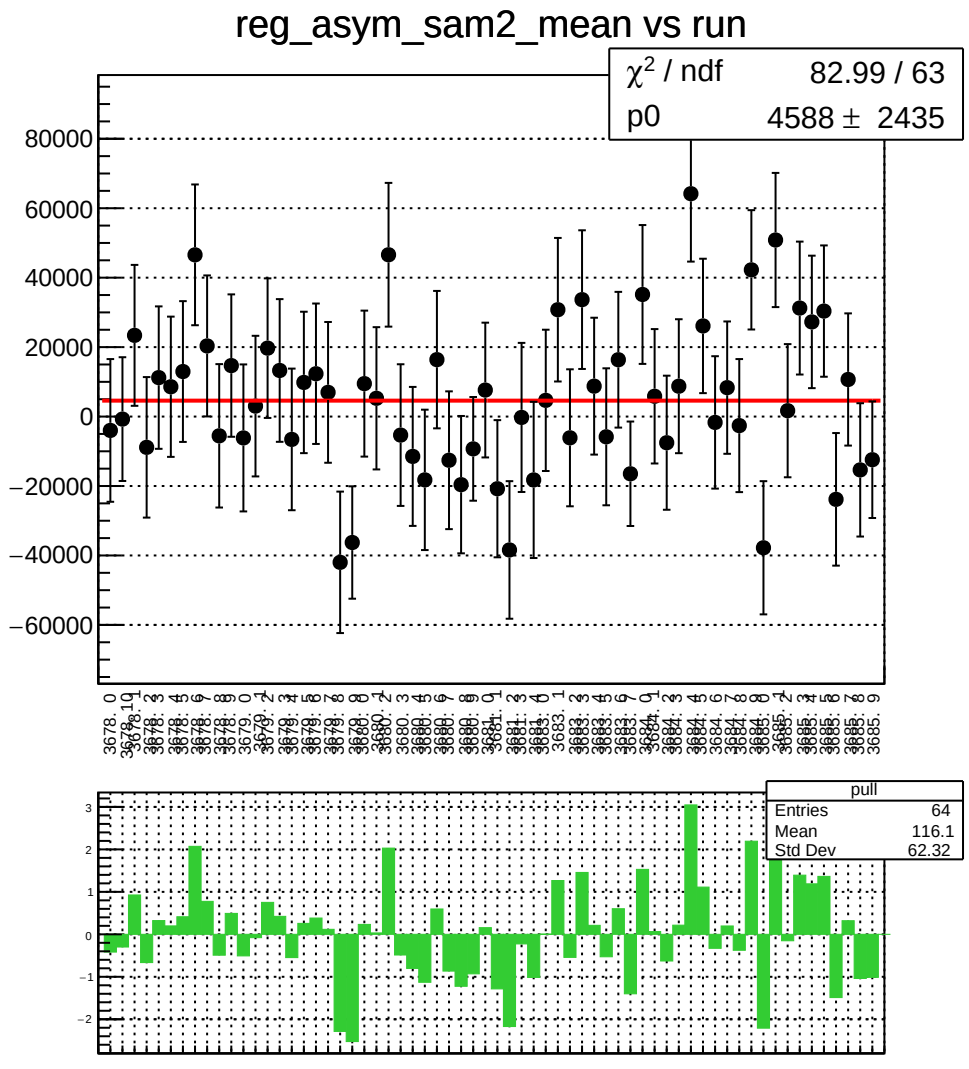

pull1D
Entries 64
Mean 0.02638
Std Dev 1.179
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

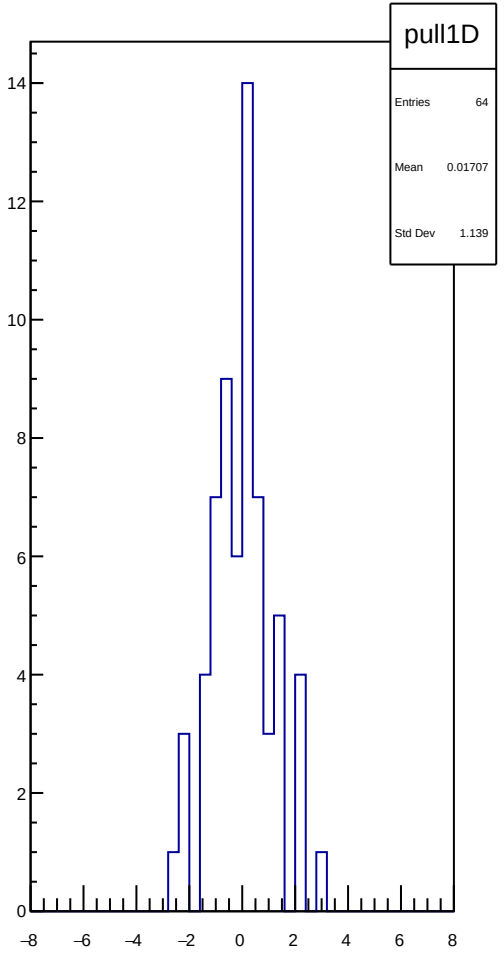

reg_asym_sam1_rms vs run
χ² / ndf 3859 / 63
p0 511.6 ± 0.4654
750
700
650
600
550
500
450

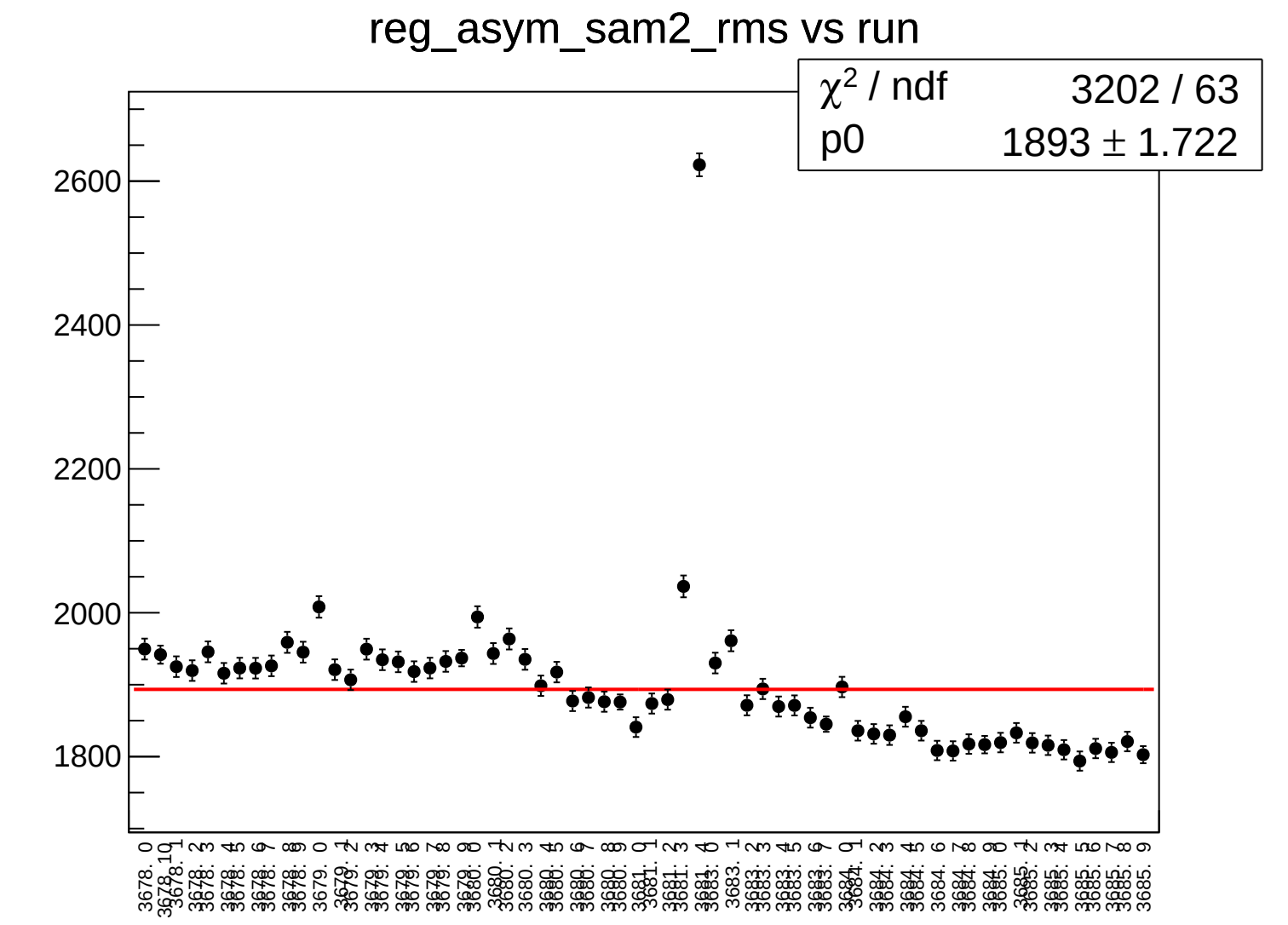

asym_sam1_correction_mean vs run
×10^3
χ² / ndf 53.62 / 63
p0 −1272 ± 1993
pull
Entries 64
Mean −124.5
Std Dev 149.5

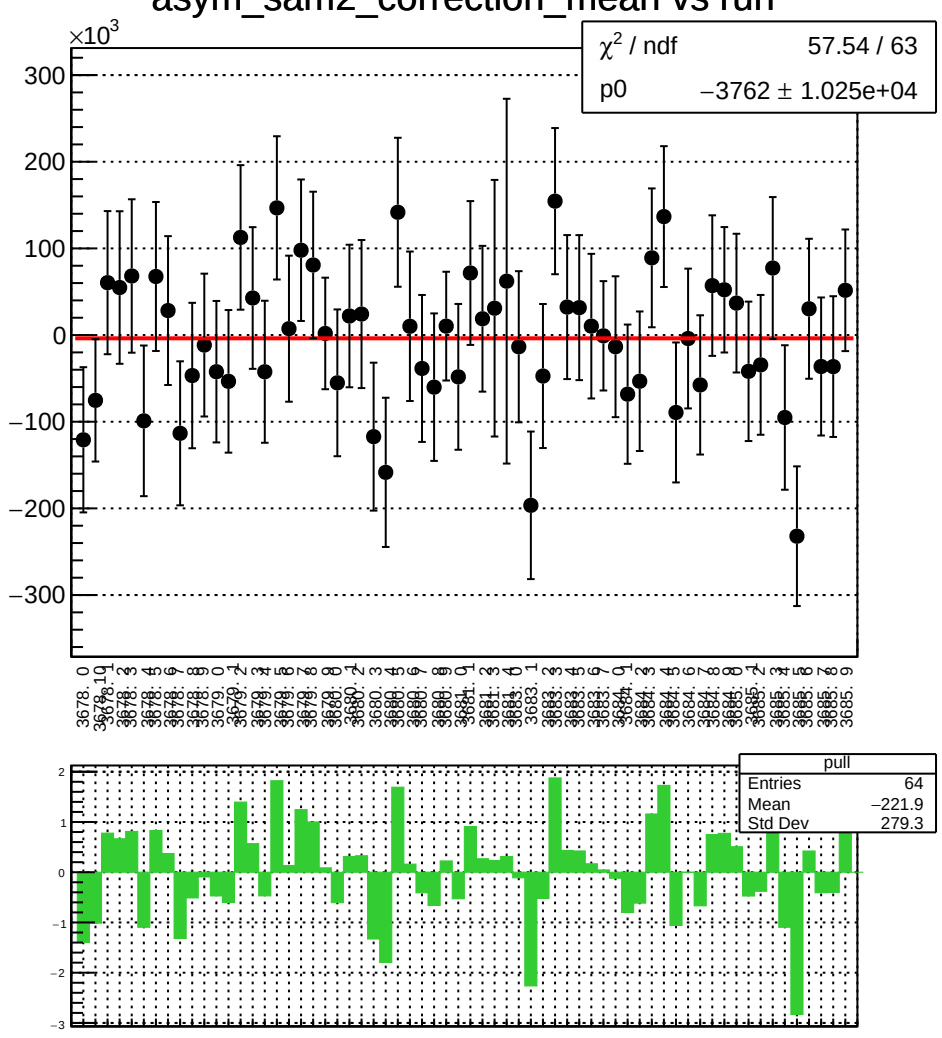

pull1D
Entries 64
Mean 0.01718
Std Dev 0.9152

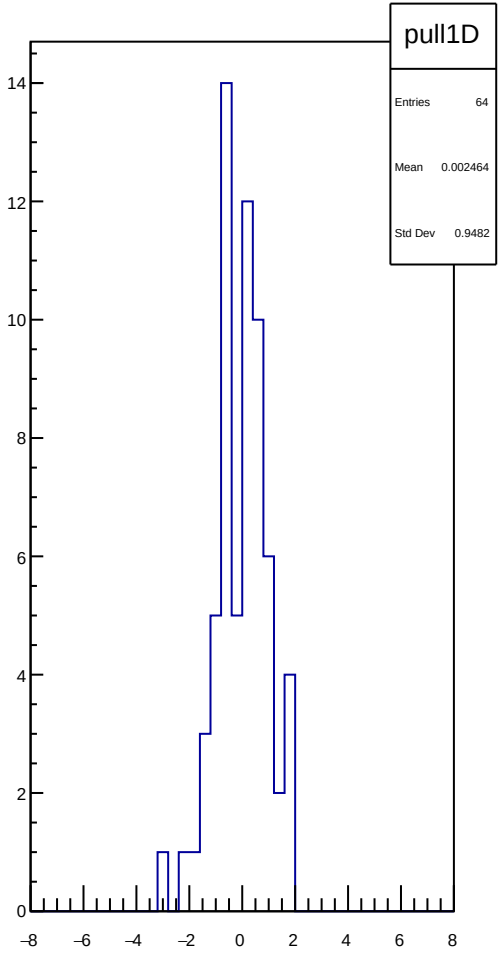

asym_sam1_correction_rms vs run
χ² / ndf 2.933e+04 / 63
p0 1533 ± 1.409
7000
6000
5000
4000
3000
2000
1000

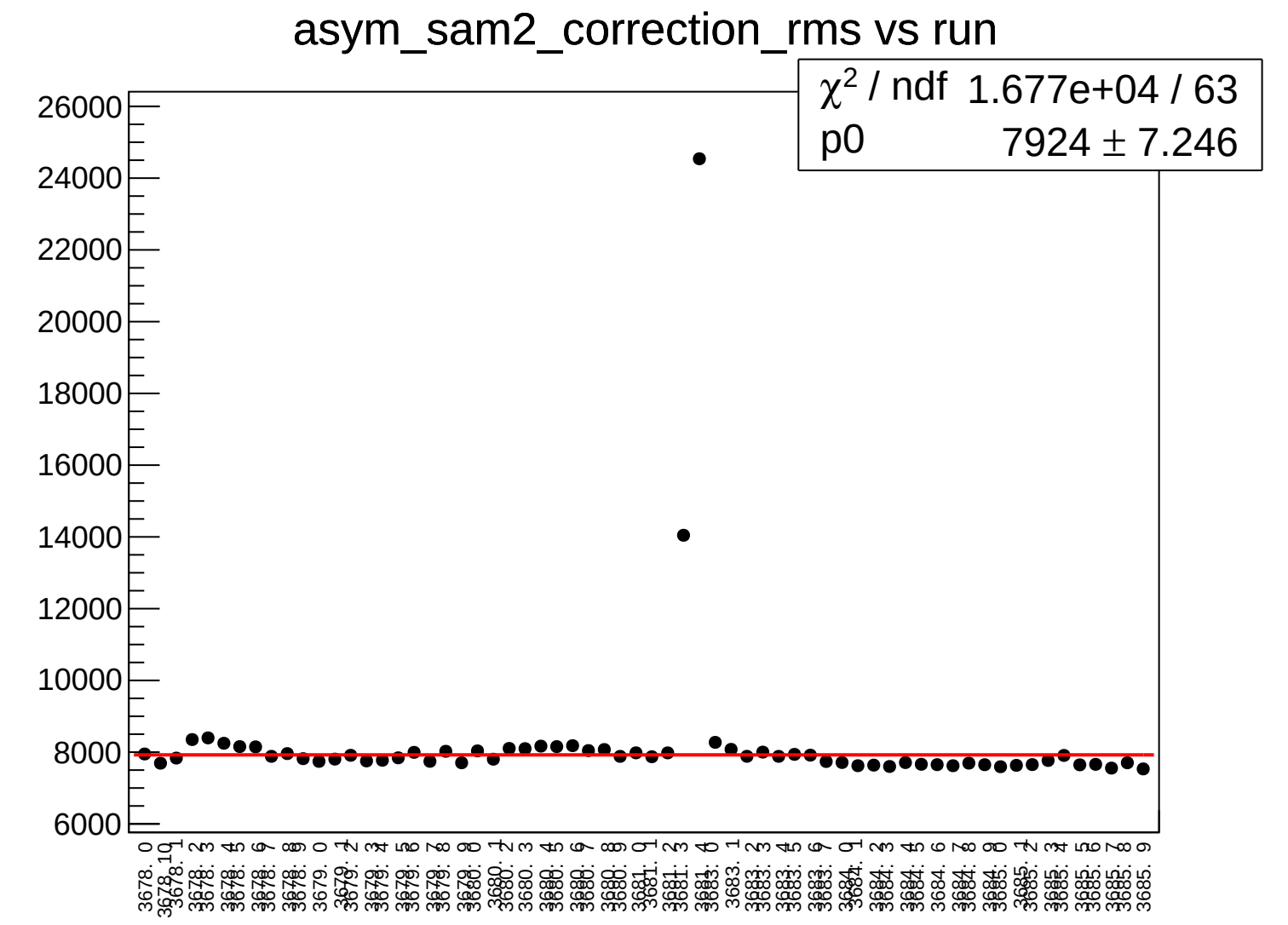

reg_asym_sam2_mean vs run
χ² / ndf 82.99 / 63
p0 4588 ± 2435
pull
Entries 64
Mean 116.1
Std Dev 62.32

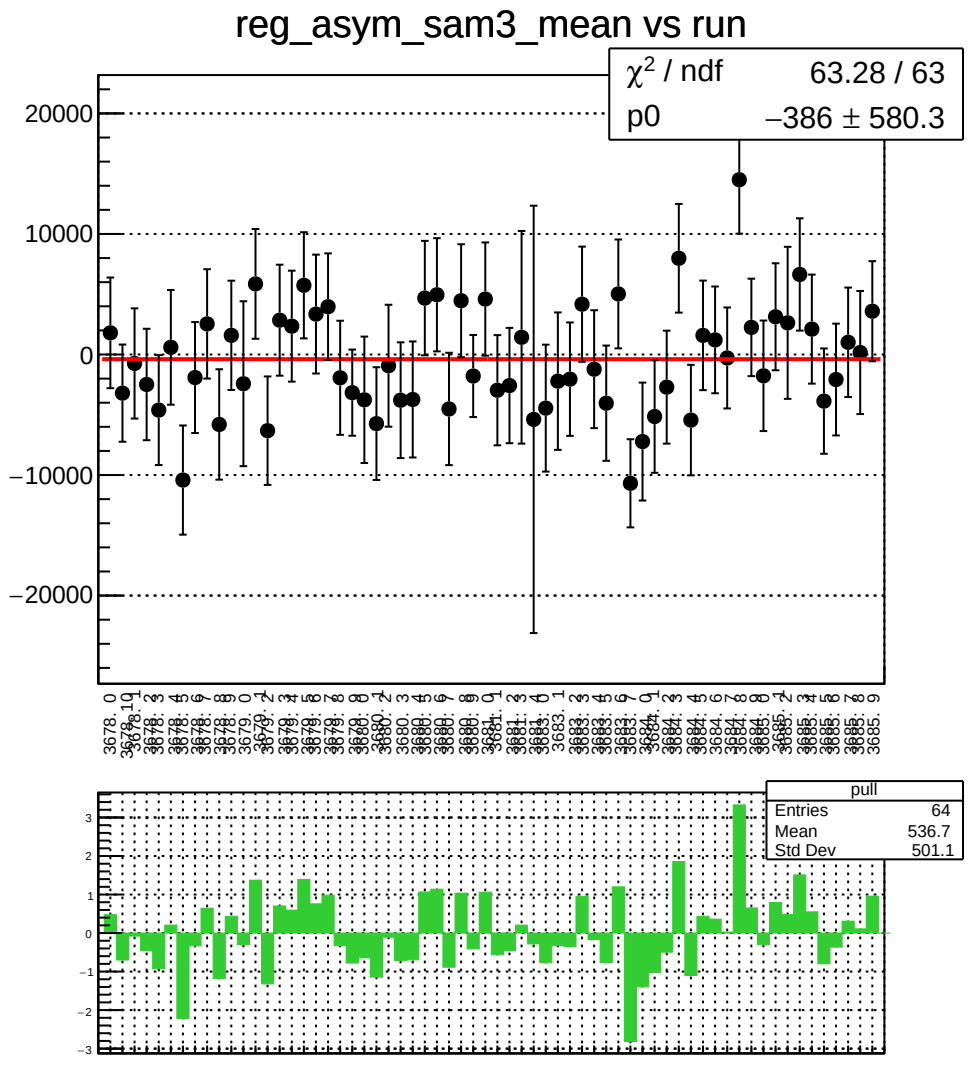

pull1D
Entries 64
Mean 0.01707
Std Dev 1.139

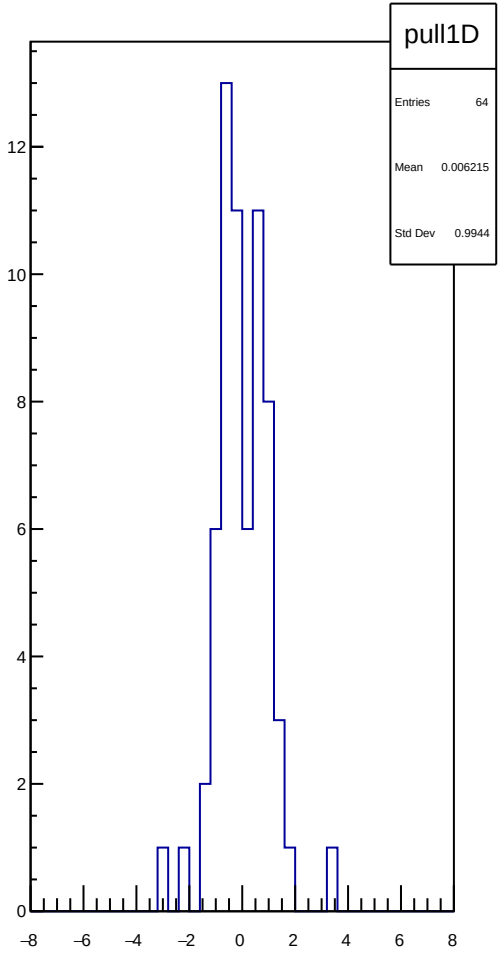

reg_asym_sam2_rms vs run
χ² / ndf 3202 / 63
p0 1893 ± 1.722
2600
2400
2200
2000
1800

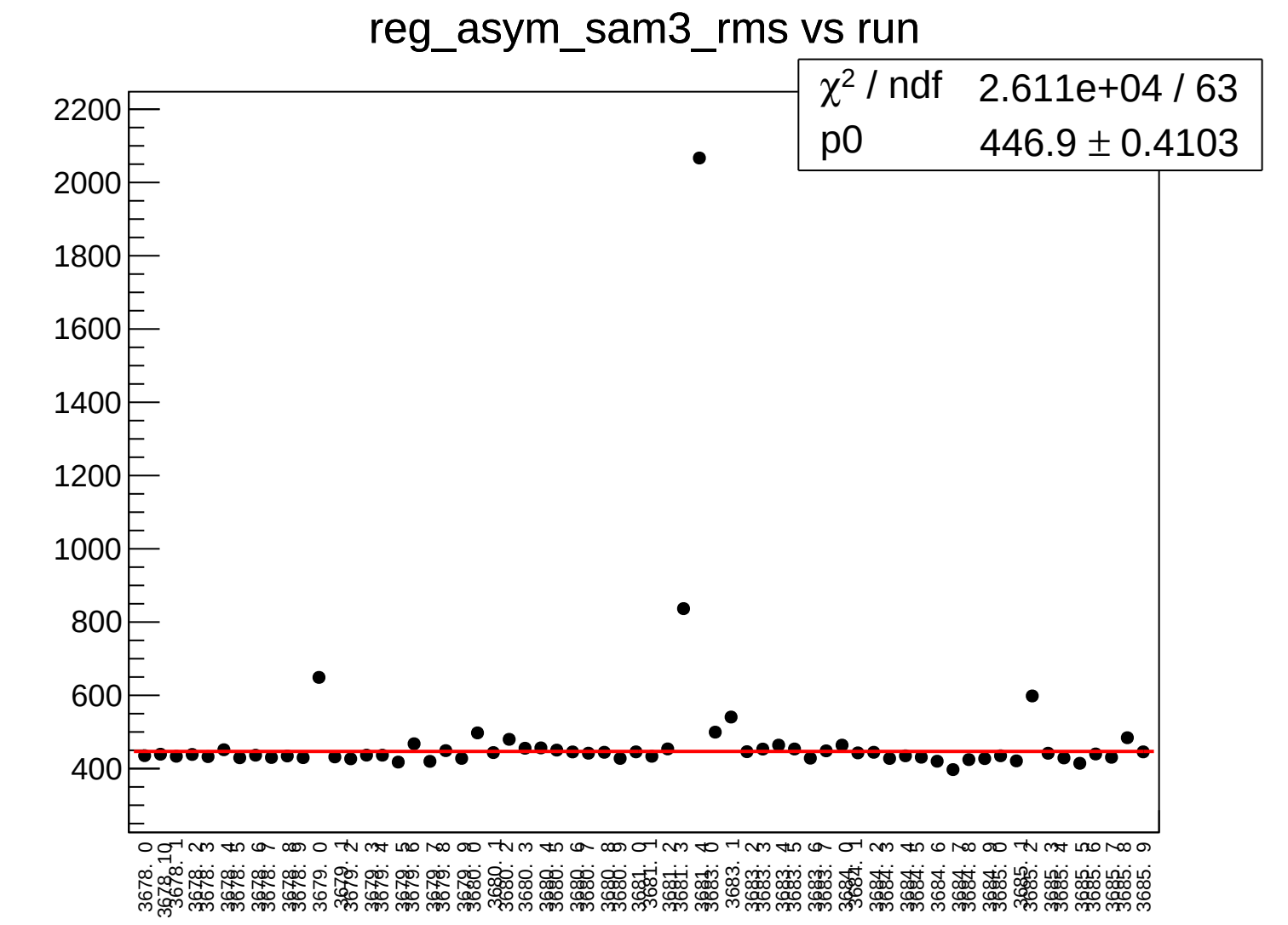

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 57.54 / 63
p0 −3762 ± 1.025e+04
pull
Entries 64
Mean −221.9
Std Dev 279.3

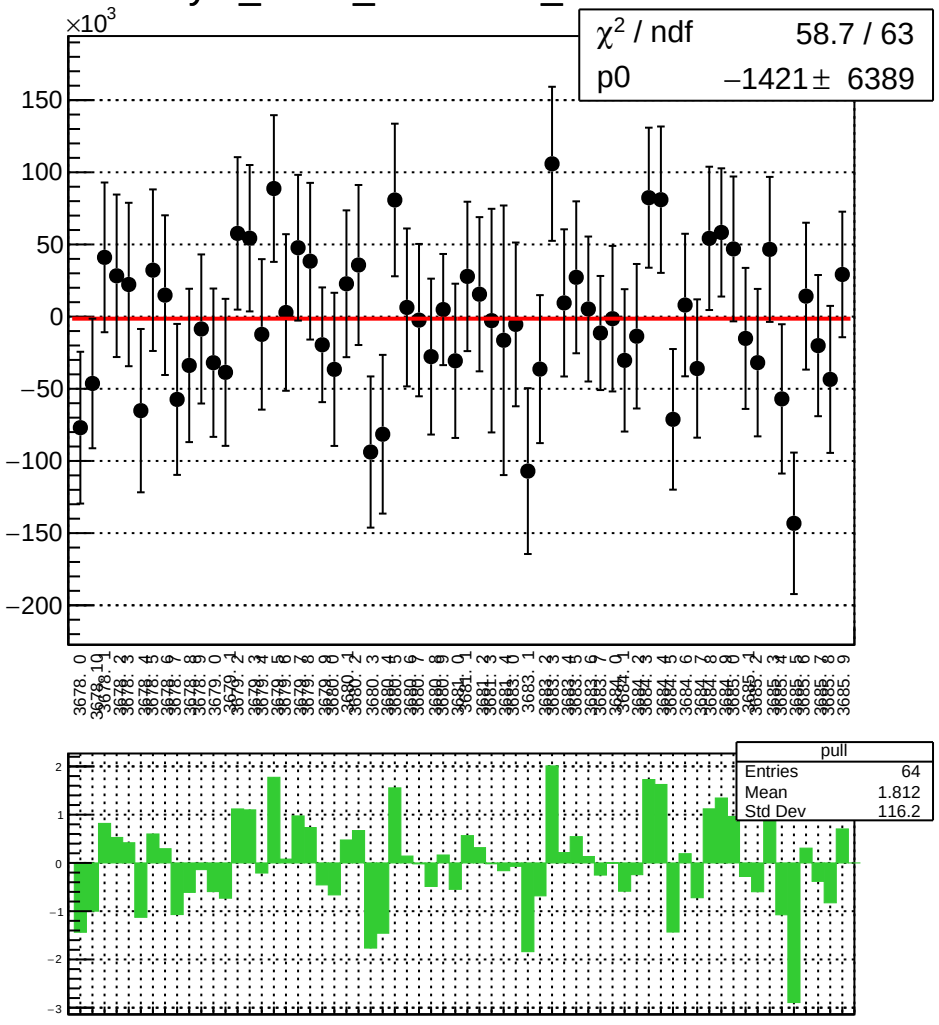

pull1D
Entries 64
Mean 0.002464
Std Dev 0.9482

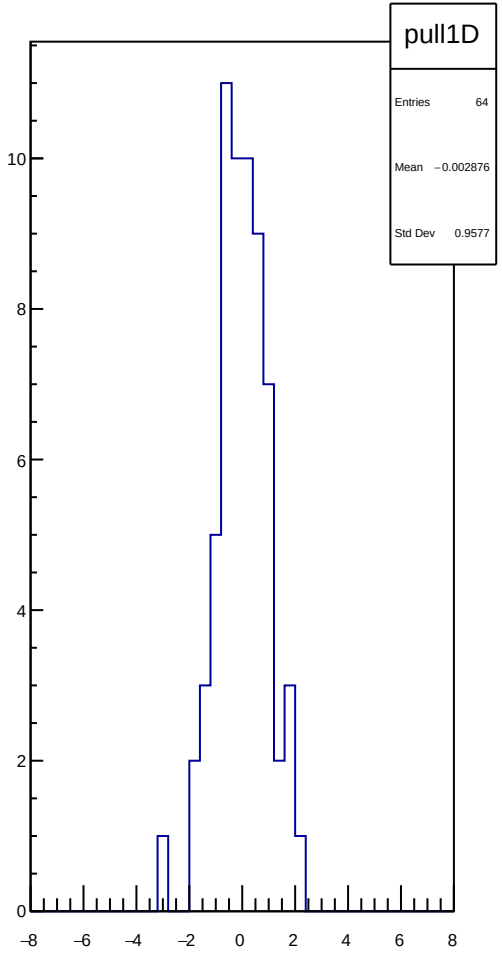

asym_sam2_correction_rms vs run
χ² / ndf 1.677e+04 / 63
p0 7924 ± 7.246
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000

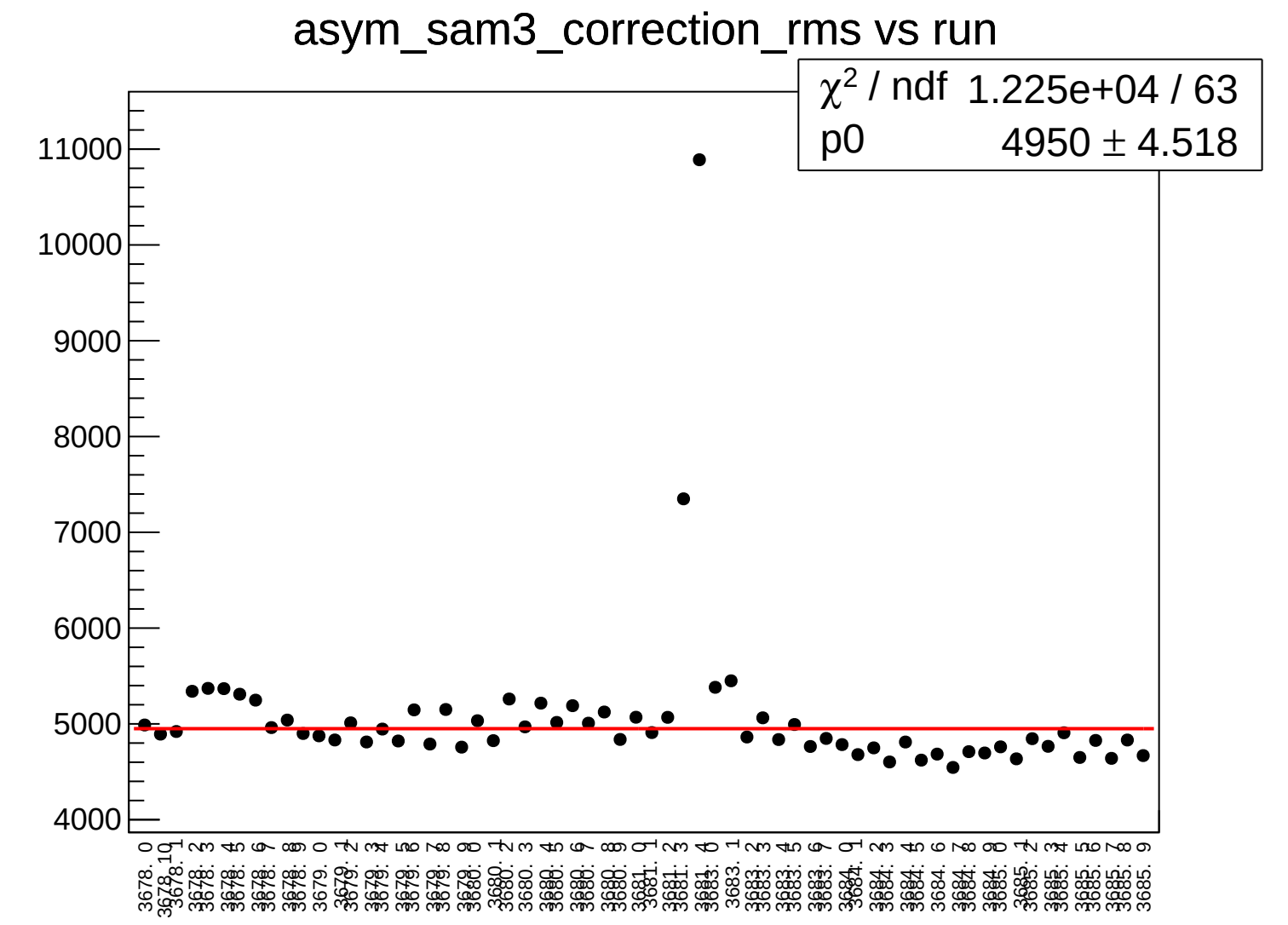

reg_asym_sam3_mean vs run
χ² / ndf 63.28 / 63
p0 −386 ± 580.3
20000
10000
0
−10000
−20000
pull
Entries 64
Mean 536.7
Std Dev 501.1
3
2
1
0
−1
−2
−3

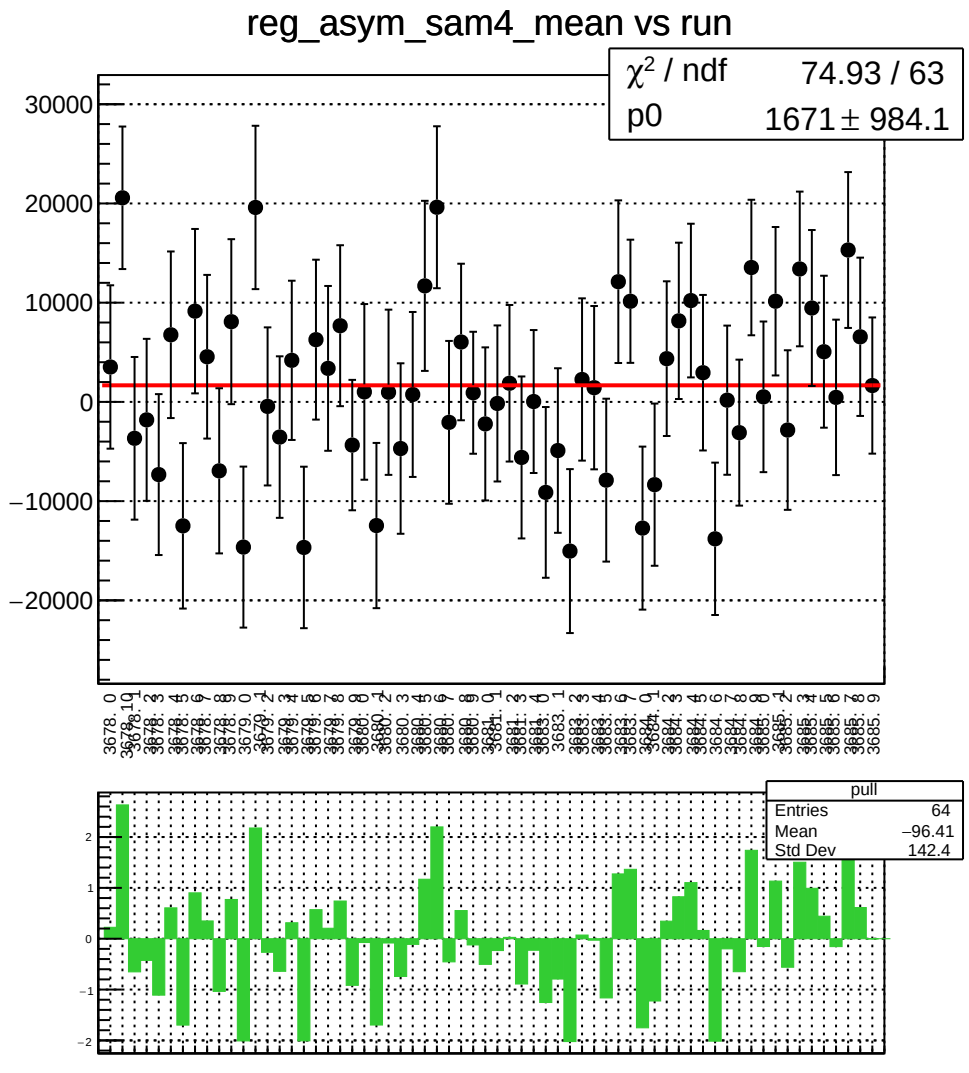

pull1D
Entries 64
Mean 0.006215
Std Dev 0.9944
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

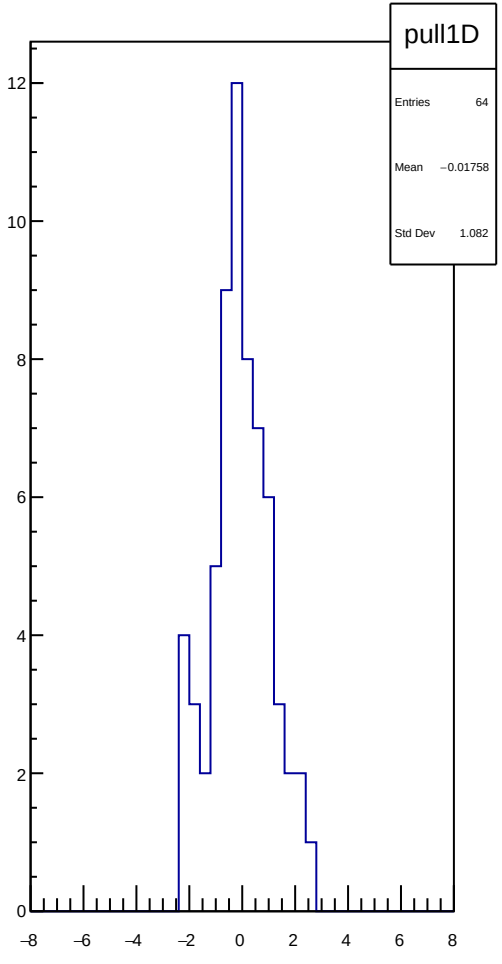

reg_asym_sam3_rms vs run
$\chi^2$ / ndf 2.611e+04 / 63
p0 446.9 ± 0.4103
2200
2000
1800
1600
1400
1200
1000
800
600
400

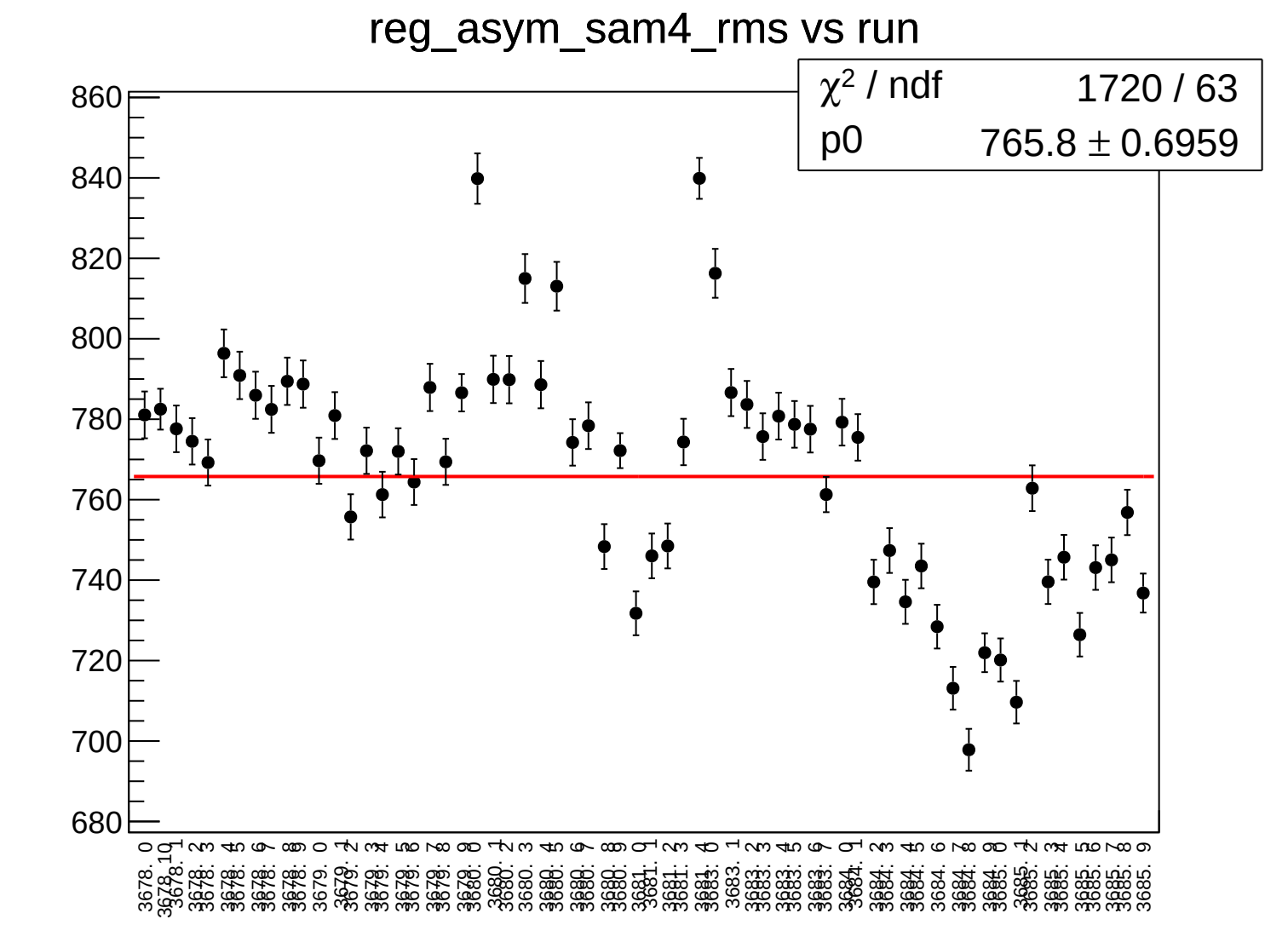

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 58.7 / 63
p0 −1421 ± 6389
150
100
50
0
−50
−100
−150
−200
pull
Entries 64
Mean 1.812
Std Dev 116.2
2
1
0
−1
−2
−3

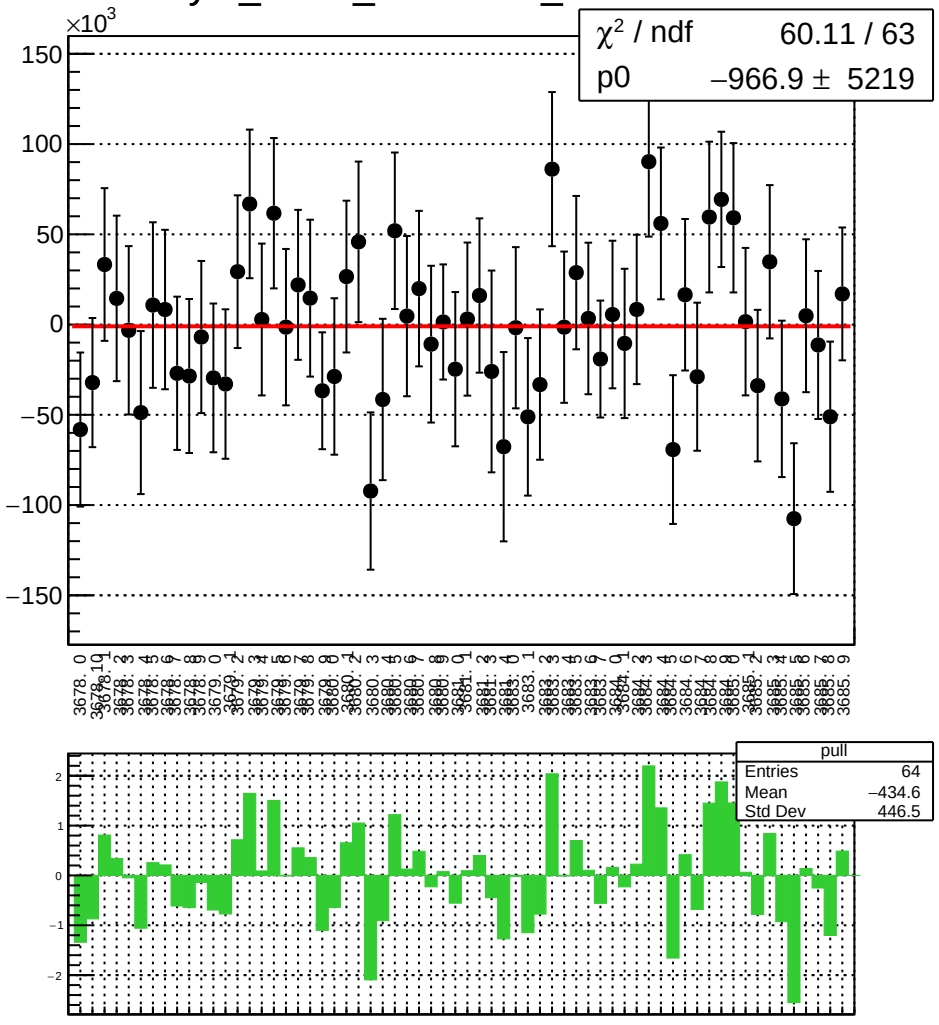

pull1D
Entries 64
Mean −0.002876
Std Dev 0.9577
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

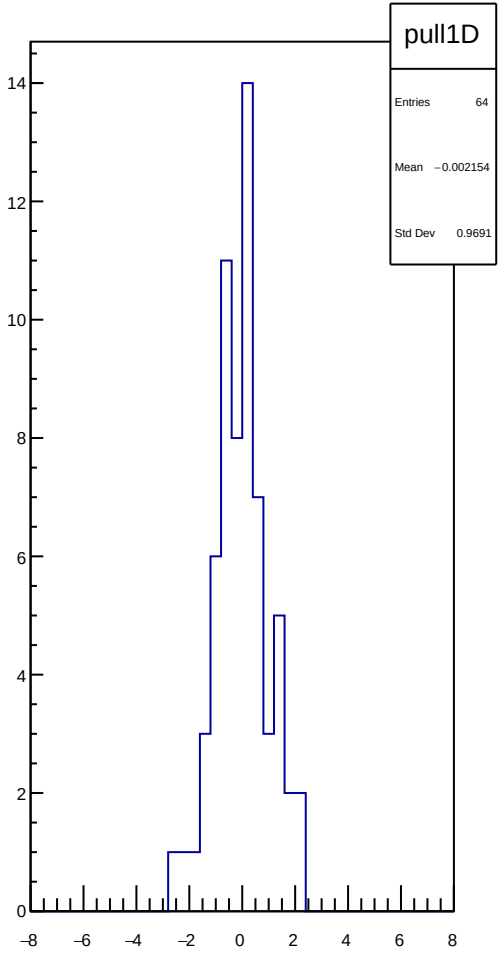

asym_sam3_correction_rms vs run
$\chi^2$ / ndf 1.225e+04 / 63
p0 4950 ± 4.518
11000
10000
9000
8000
7000
6000
5000
4000

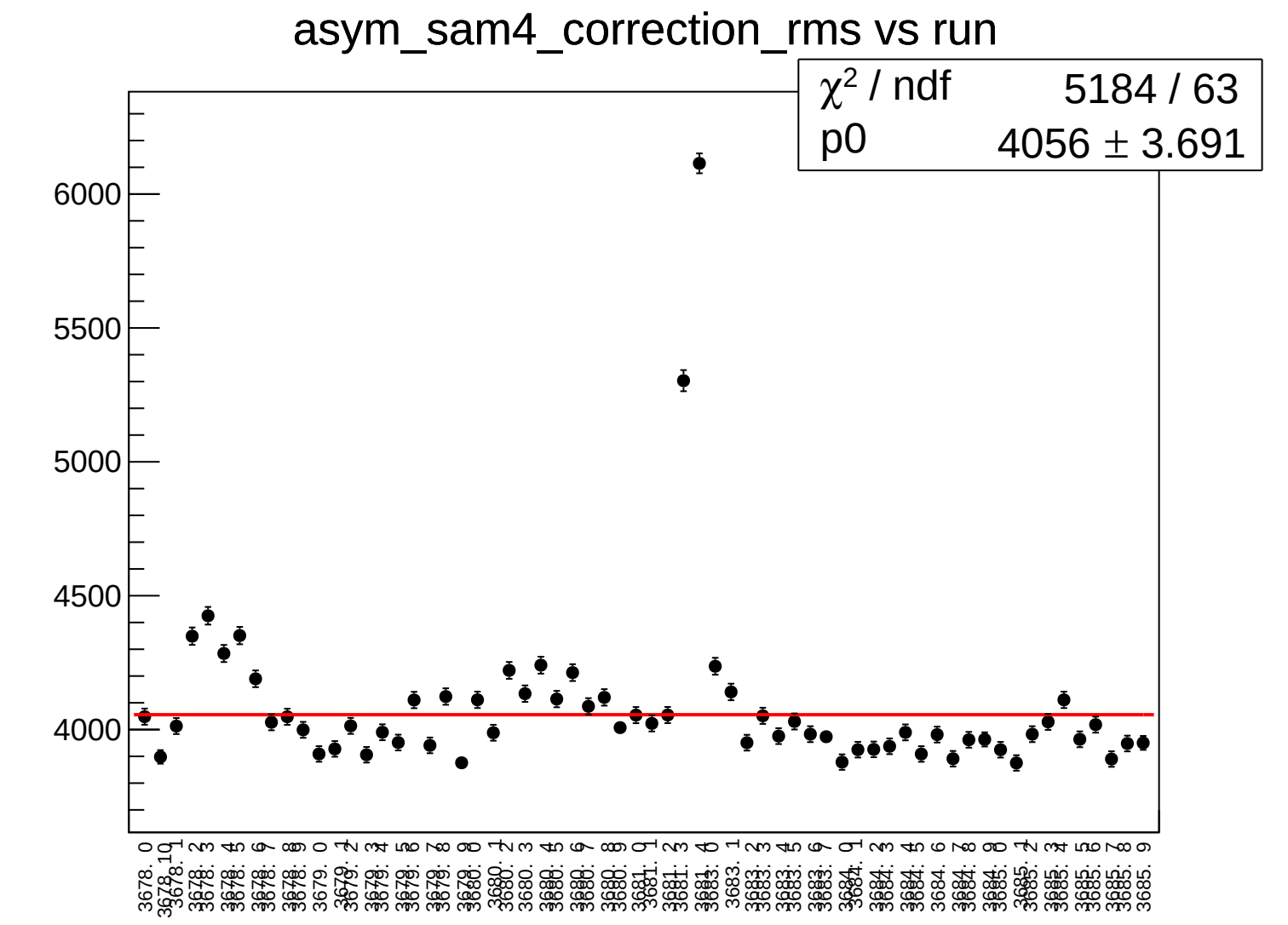

reg_asym_sam4_mean vs run
χ² / ndf 74.93 / 63
p0 1671 ± 984.1
30000
20000
10000
0
−10000
−20000
pull
Entries 64
Mean −96.41
Std Dev 142.4
2
1
0
−1
−2

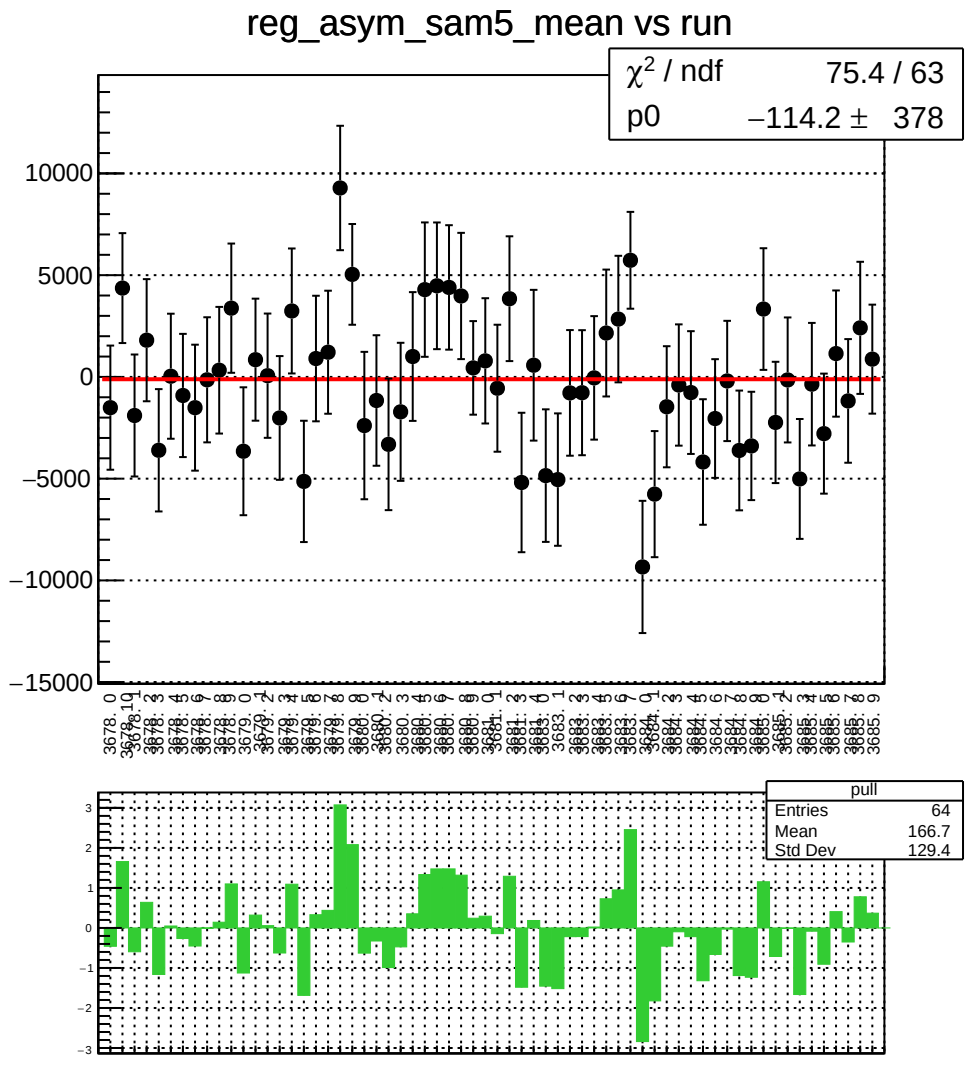

pull1D
Entries 64
Mean −0.01758
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

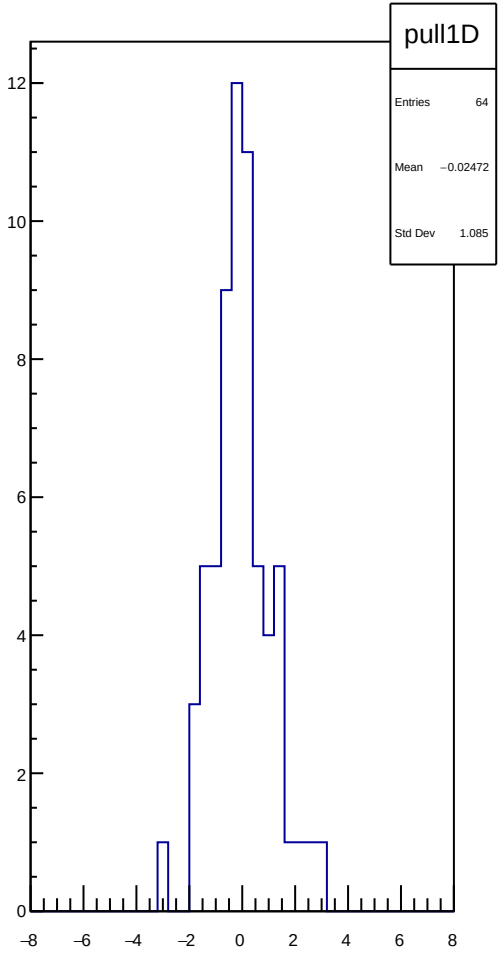

reg_asym_sam4_rms vs run
χ² / ndf 1720 / 63
p0 765.8 ± 0.6959
860
840
820
800
780
760
740
720
700
680

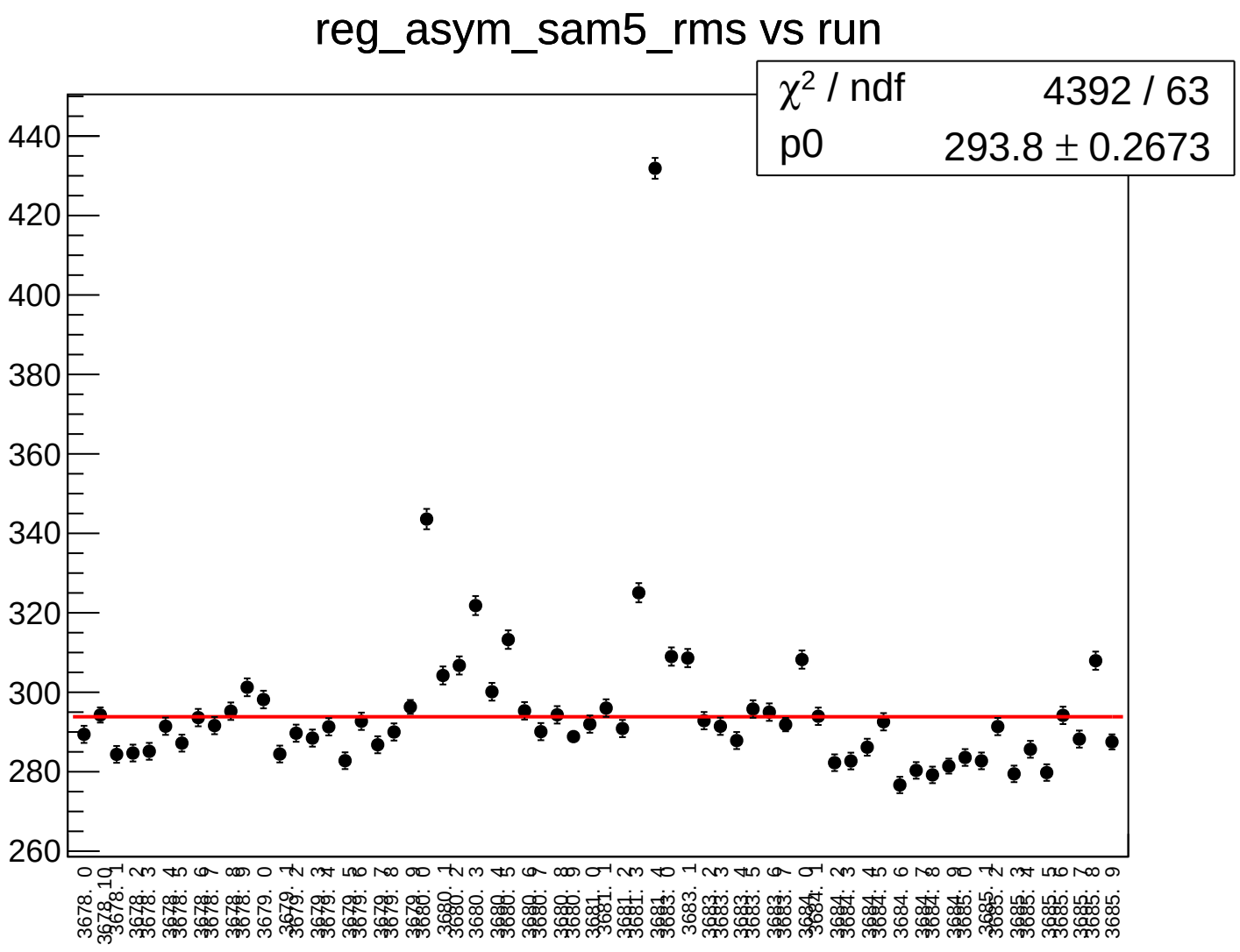

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 60.11 / 63
p0 −966.9 ± 5219
150
100
50
0
−50
−100
−150
pull
Entries 64
Mean −434.6
Std Dev 446.5
2
1
0
−1
−2

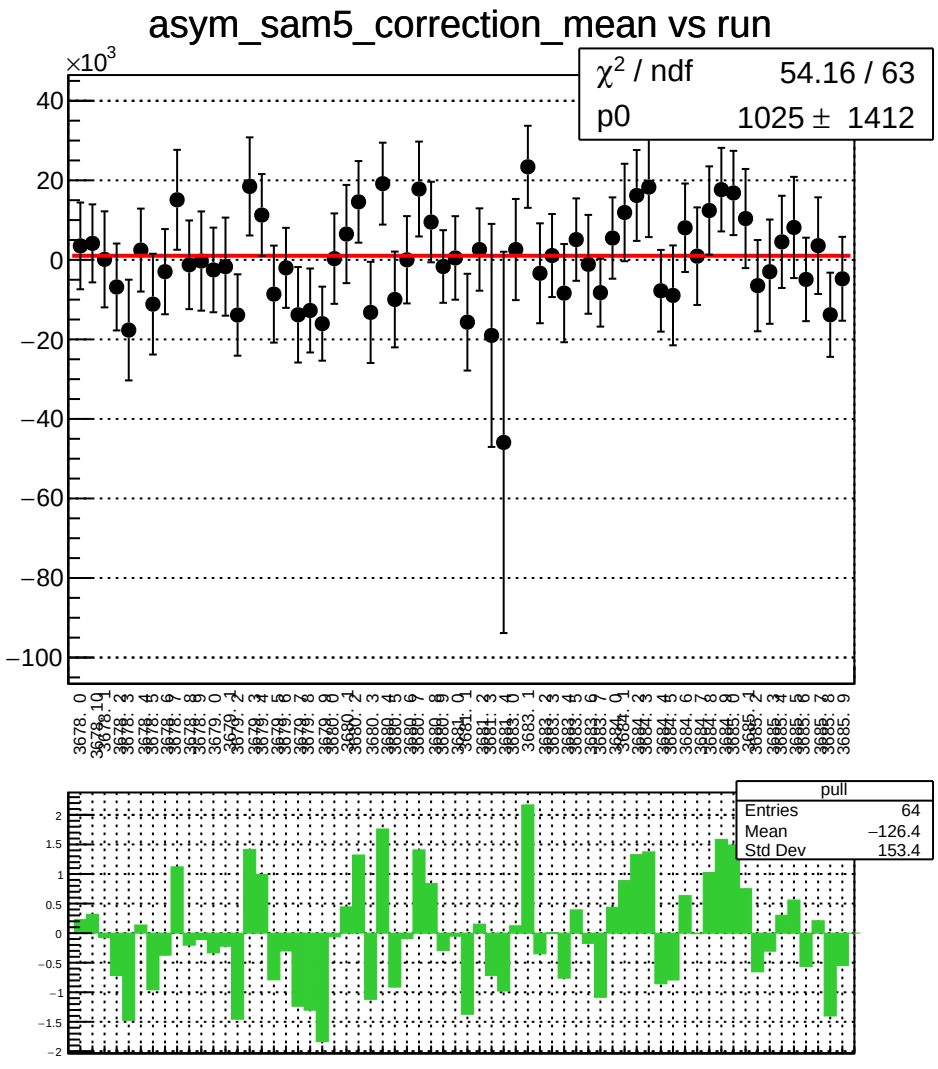

pull1D
Entries 64
Mean −0.002154
Std Dev 0.9691
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

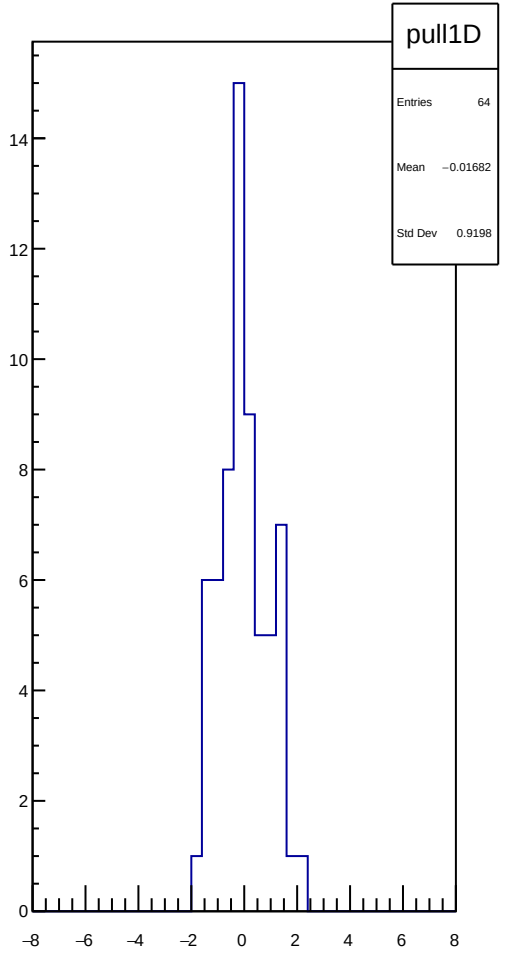

asym_sam4_correction_rms vs run
χ² / ndf 5184 / 63
p0 4056 ± 3.691
6000
5500
5000
4500
4000

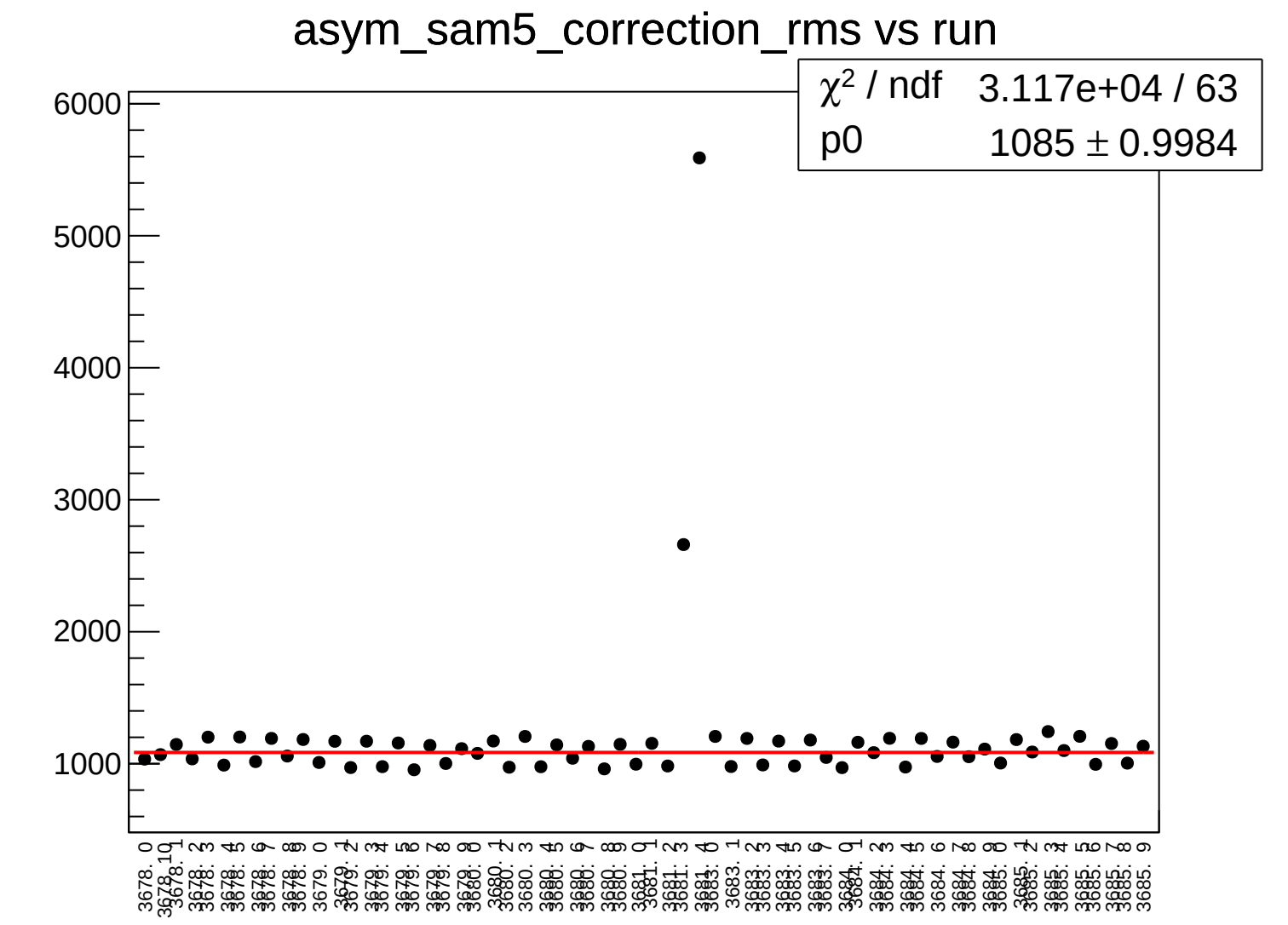

reg_asym_sam5_mean vs run
χ² / ndf 75.4 / 63
p0 −114.2 ± 378
pull
Entries 64
Mean 166.7
Std Dev 129.4

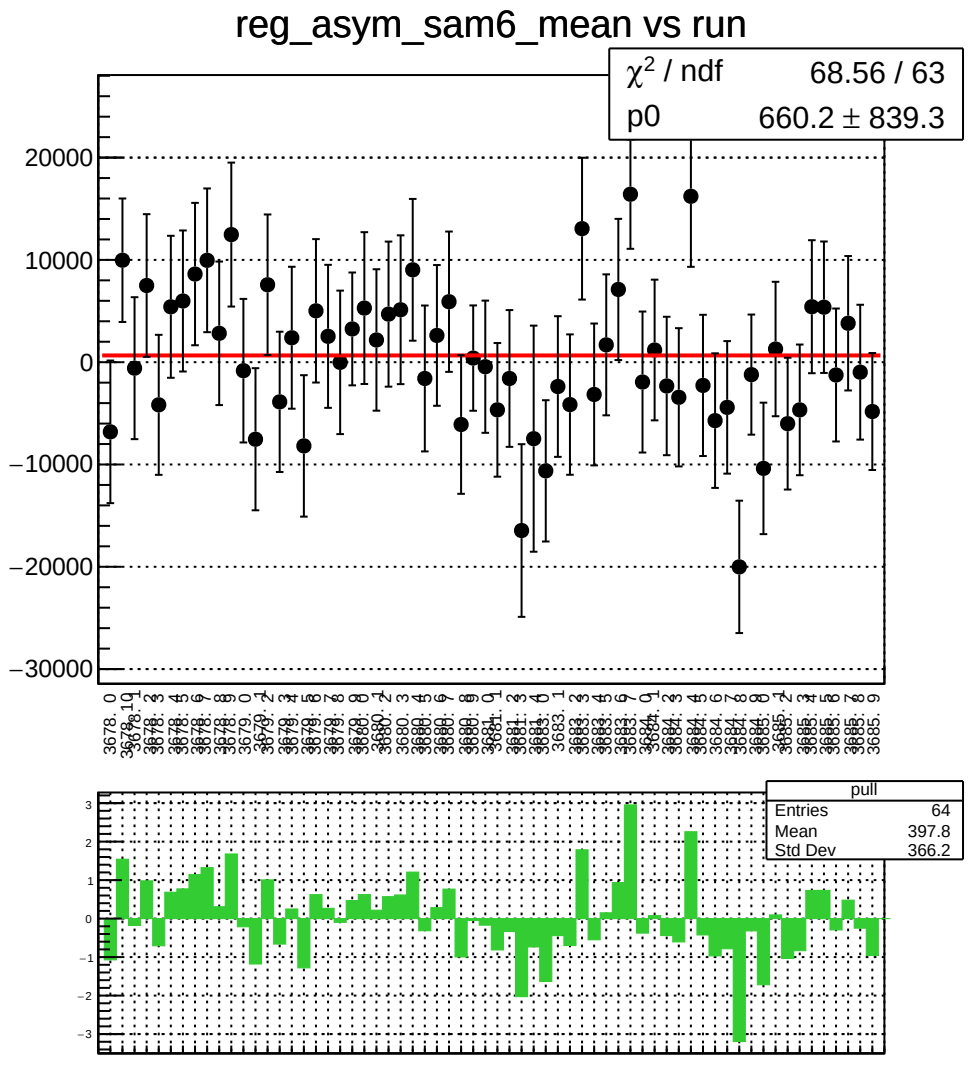

pull1D
Entries 64
Mean −0.02472
Std Dev 1.085

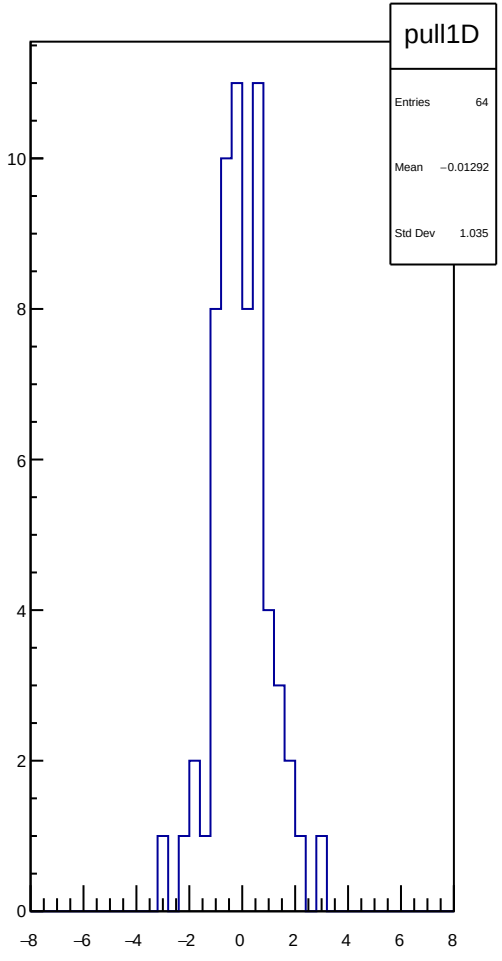

reg_asym_sam5_rms vs run
$\chi^2$ / ndf 4392 / 63
p0 293.8 ± 0.2673
440
420
400
380
360
340
320
300
280
260

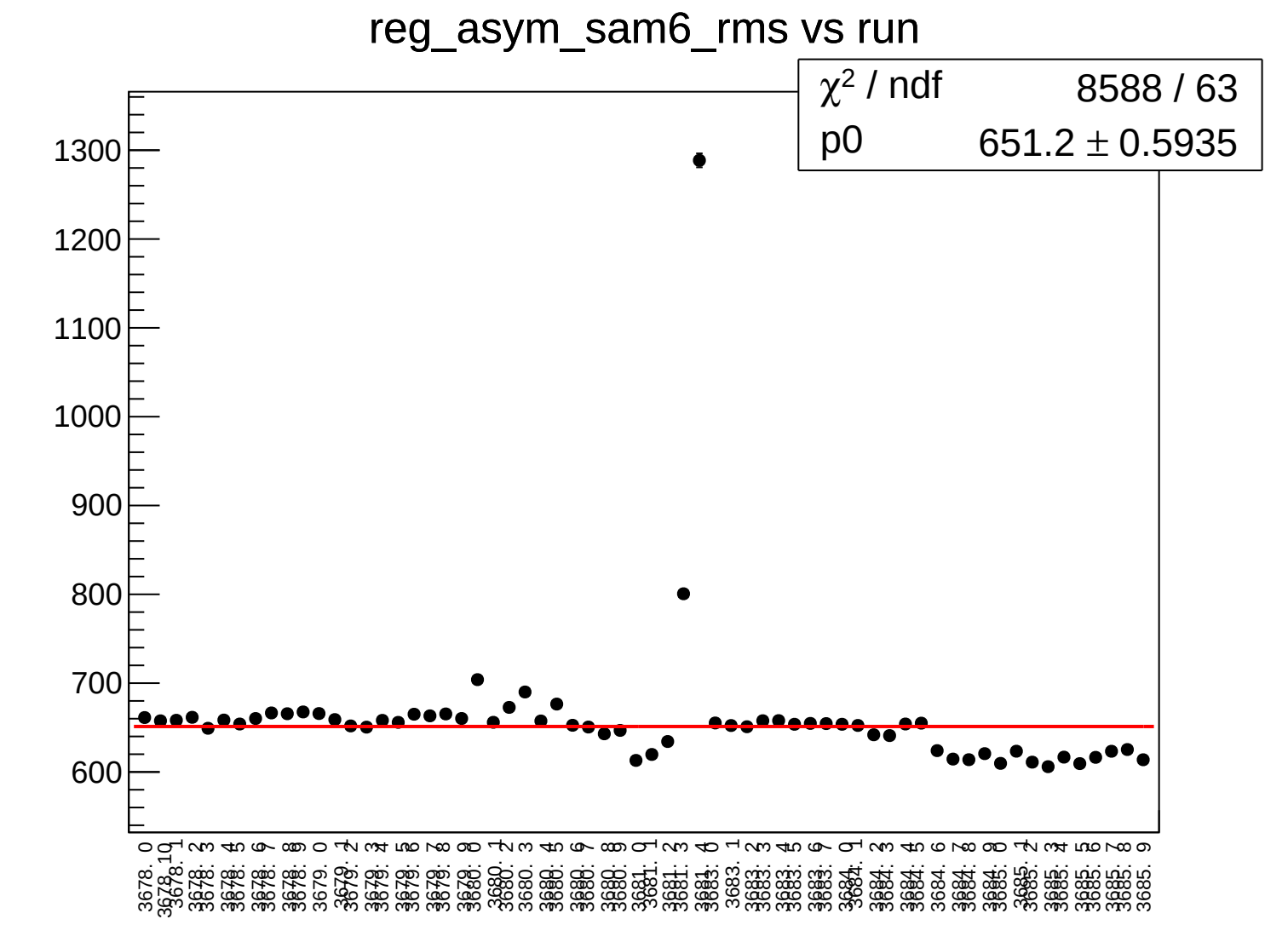

asym_sam5_correction_mean vs run
×10^3
χ² / ndf 54.16 / 63
p0 1025 ± 1412
pull
Entries 64
Mean −126.4
Std Dev 153.4

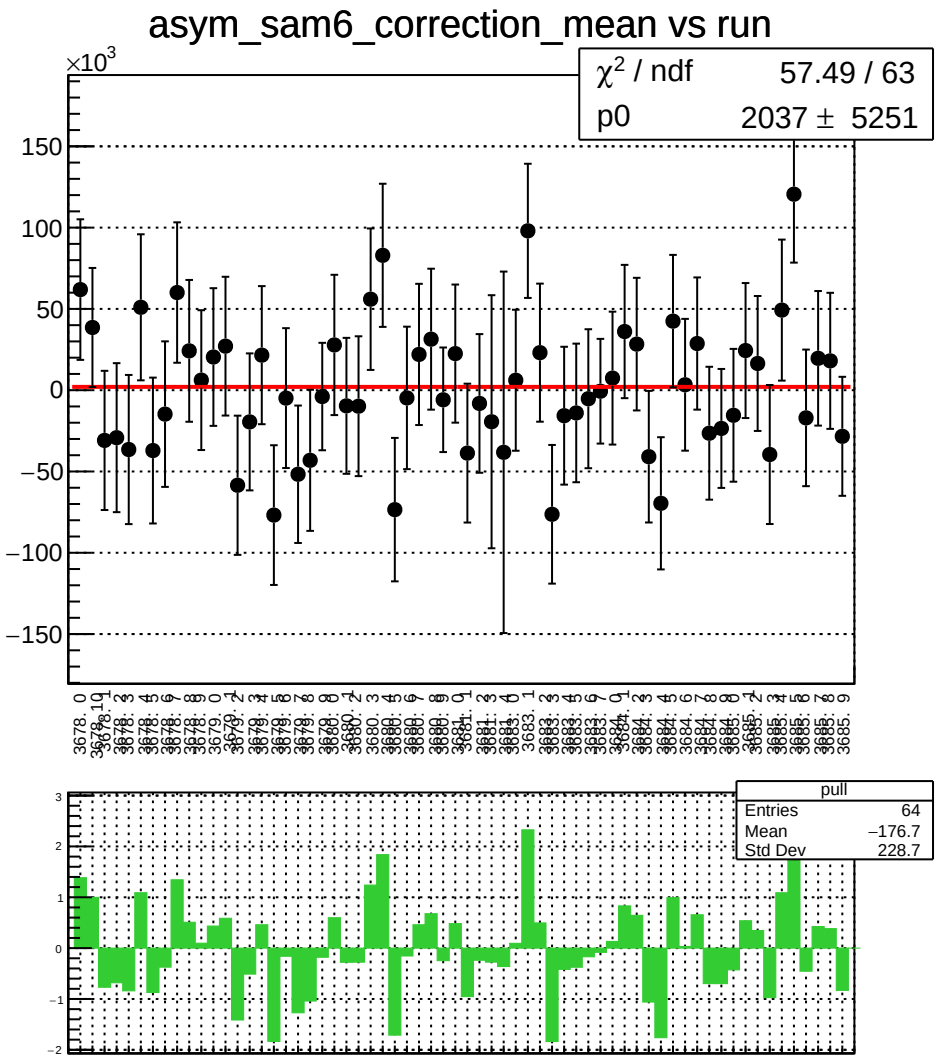

pull1D
Entries 64
Mean −0.01682
Std Dev 0.9198

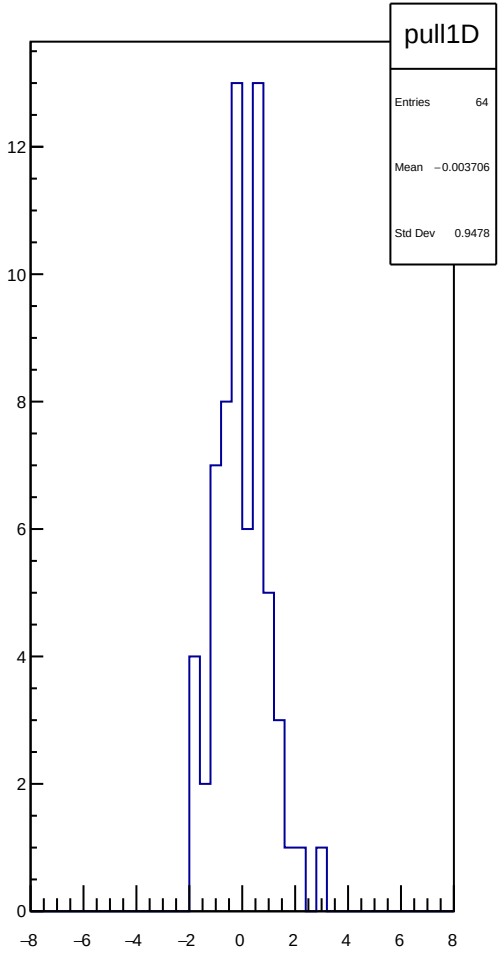

asym_sam5_correction_rms vs run
$\chi^2$ / ndf 3.117e+04 / 63
p0 1085 ± 0.9984
6000
5000
4000
3000
2000
1000

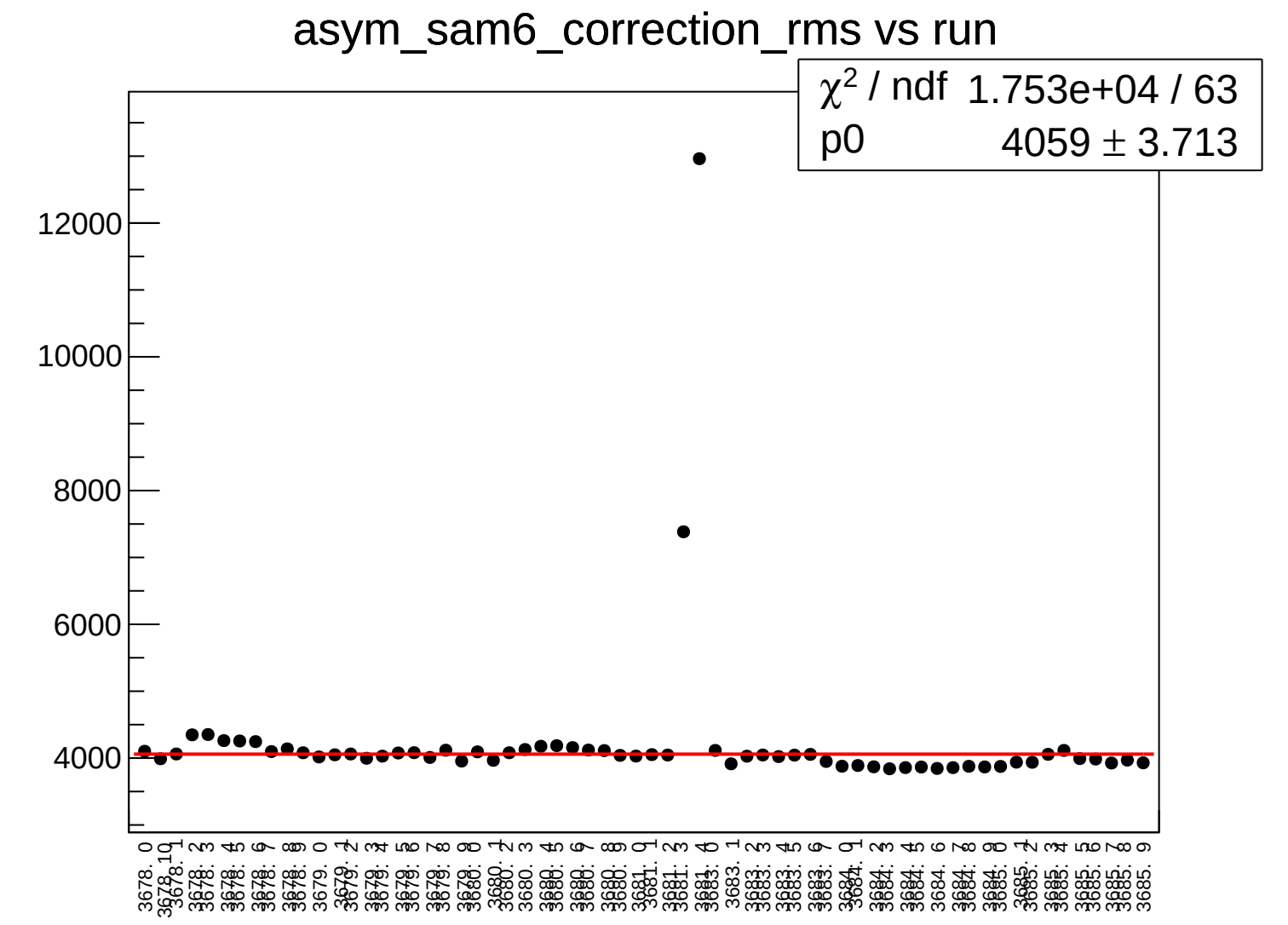

reg_asym_sam6_mean vs run
χ² / ndf 68.56 / 63
p0 660.2 ± 839.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 64
Mean 397.8
Std Dev 366.2
3
2
1
0
−1
−2
−3

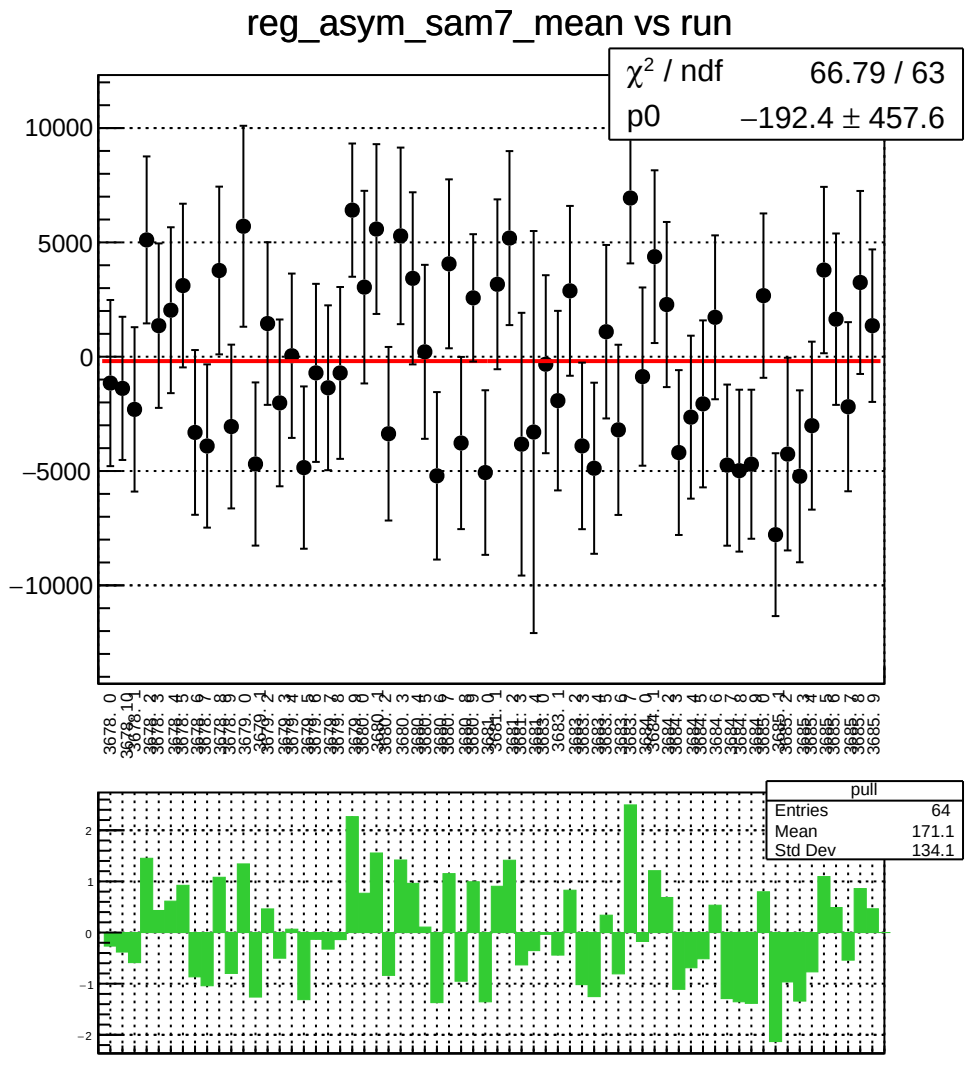

pull1D
Entries 64
Mean −0.01292
Std Dev 1.035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

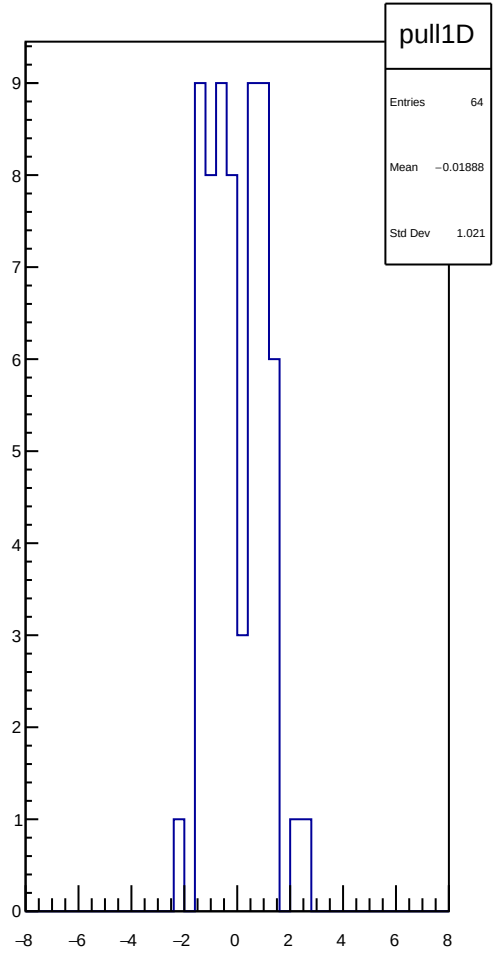

reg_asym_sam6_rms vs run
$\chi^2$ / ndf 8588 / 63
p0 651.2 ± 0.5935
1300
1200
1100
1000
900
800
700
600

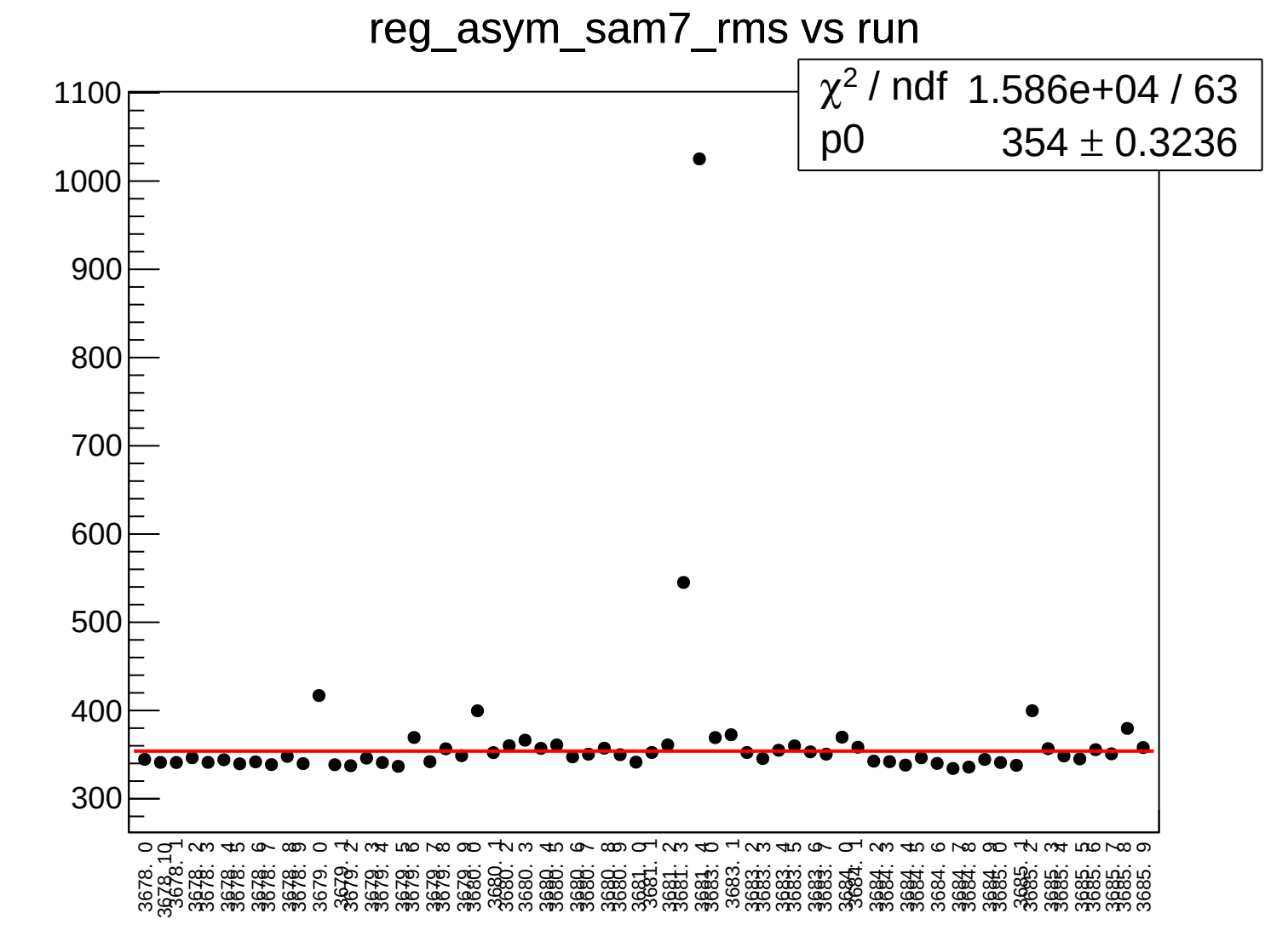

asym_sam6_correction_mean vs run
×10^3
χ² / ndf 57.49 / 63
p0 2037 ± 5251
150
100
50
0
−50
−100
−150
pull
Entries 64
Mean −176.7
Std Dev 228.7
3
2
1
0
−1
−2

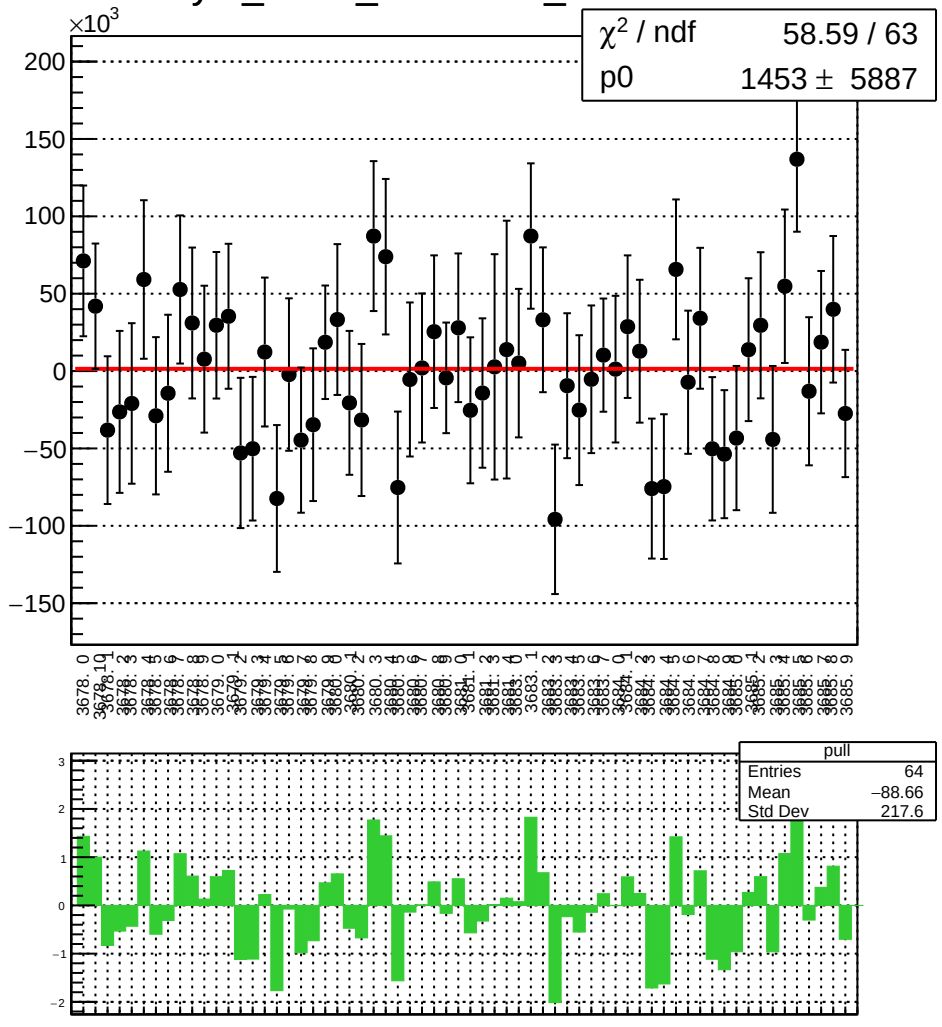

pull1D
Entries 64
Mean −0.003706
Std Dev 0.9478
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

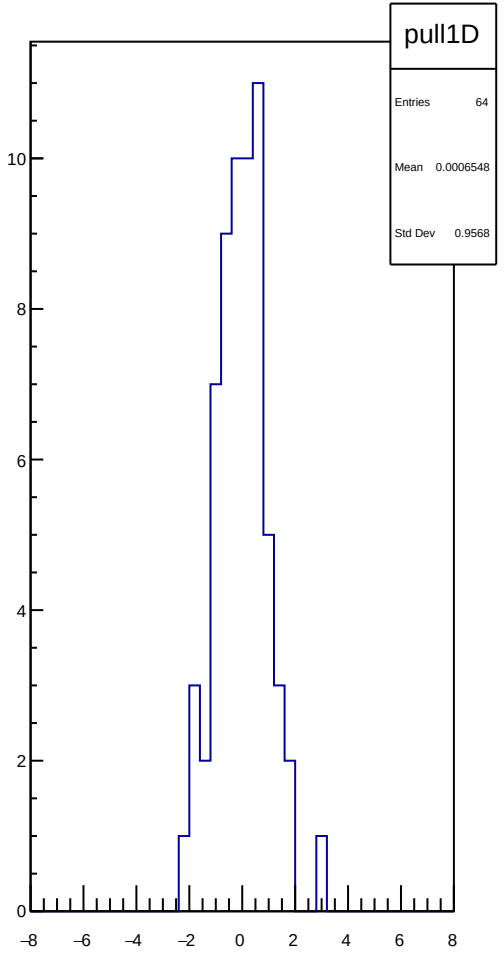

asym_sam6_correction_rms vs run
χ² / ndf 1.753e+04 / 63
p0 4059 ± 3.713
12000
10000
8000
6000
4000

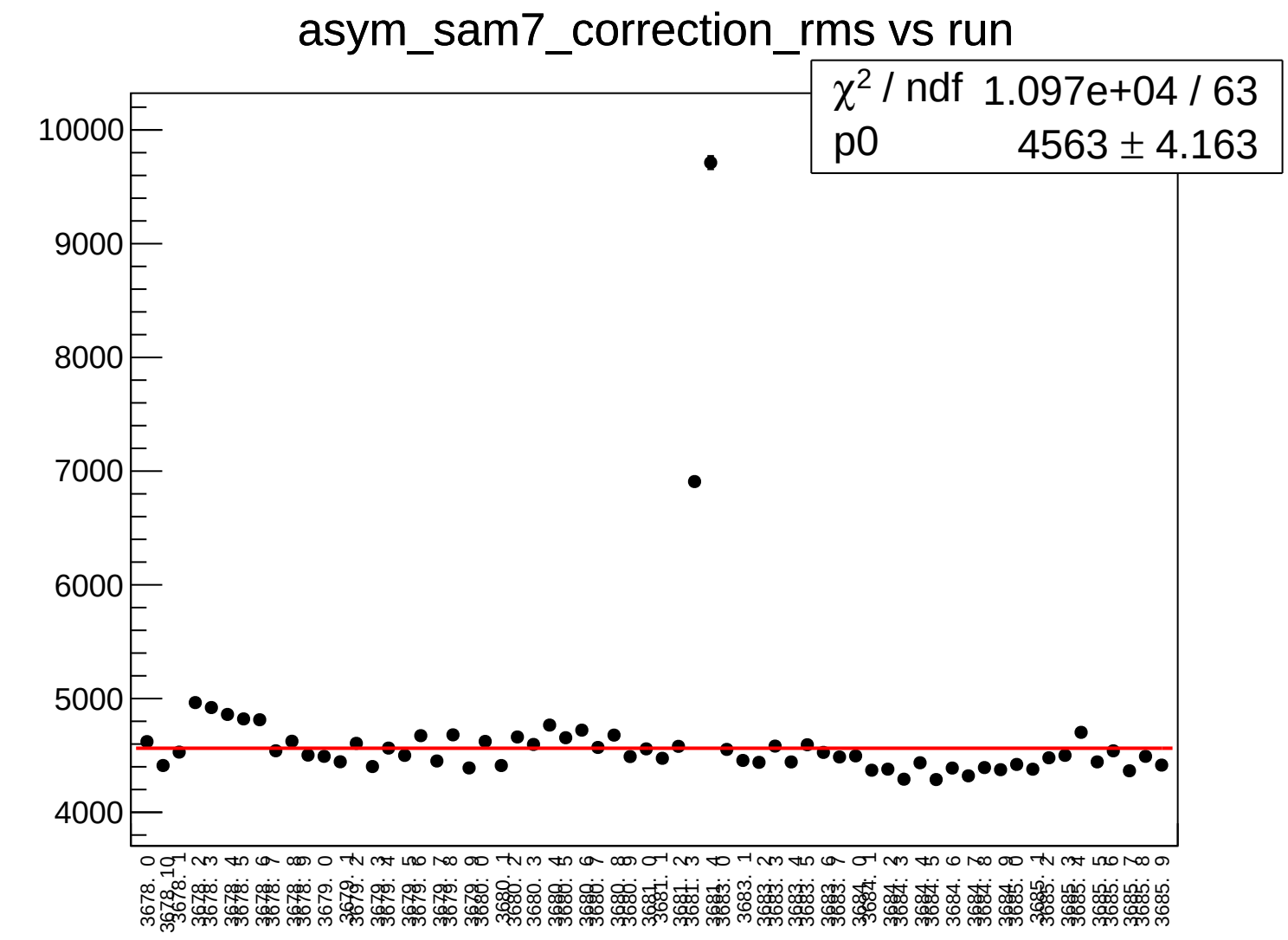

reg_asym_sam7_mean vs run
χ² / ndf 66.79 / 63
p0 −192.4 ± 457.6
pull
Entries 64
Mean 171.1
Std Dev 134.1

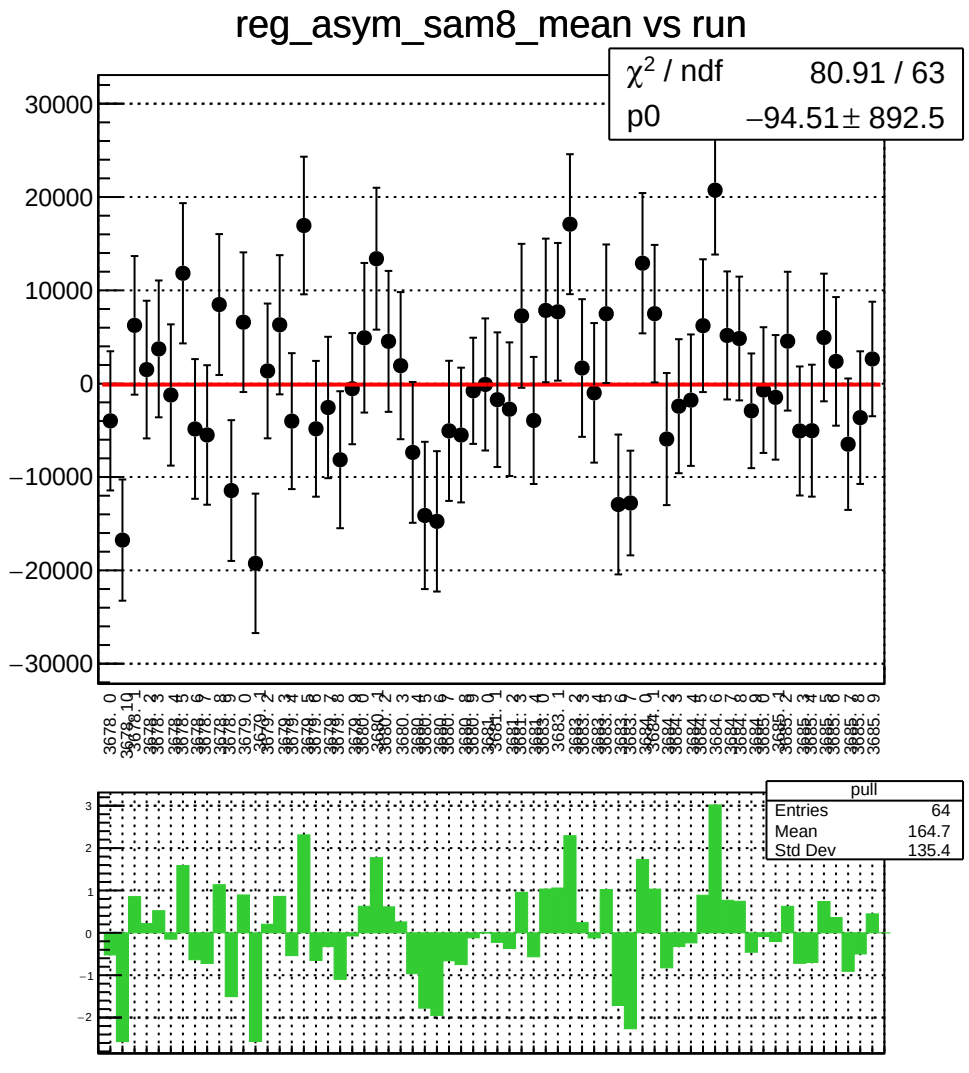

pull1D
Entries 64
Mean −0.01888
Std Dev 1.021

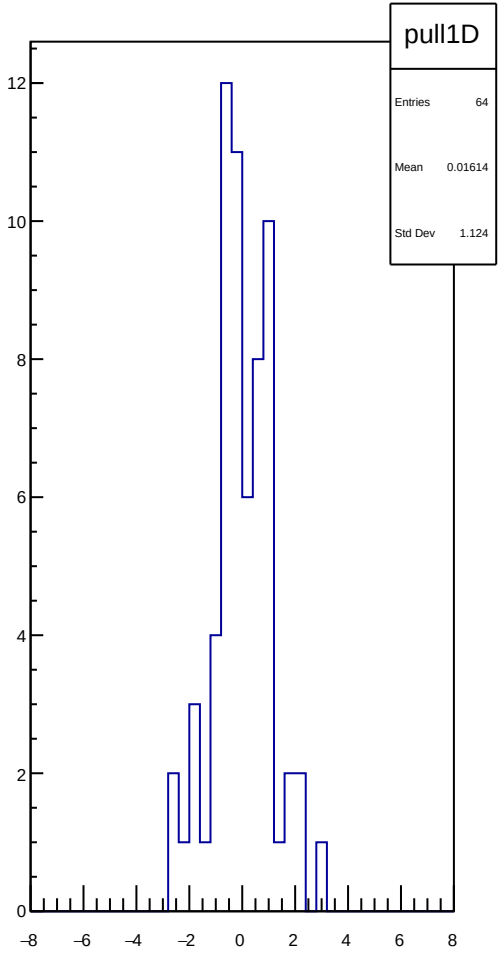

reg_asym_sam7_rms vs run
$\chi^2$ / ndf 1.586e+04 / 63
p0 354 ± 0.3236
1100
1000
900
800
700
600
500
400
300

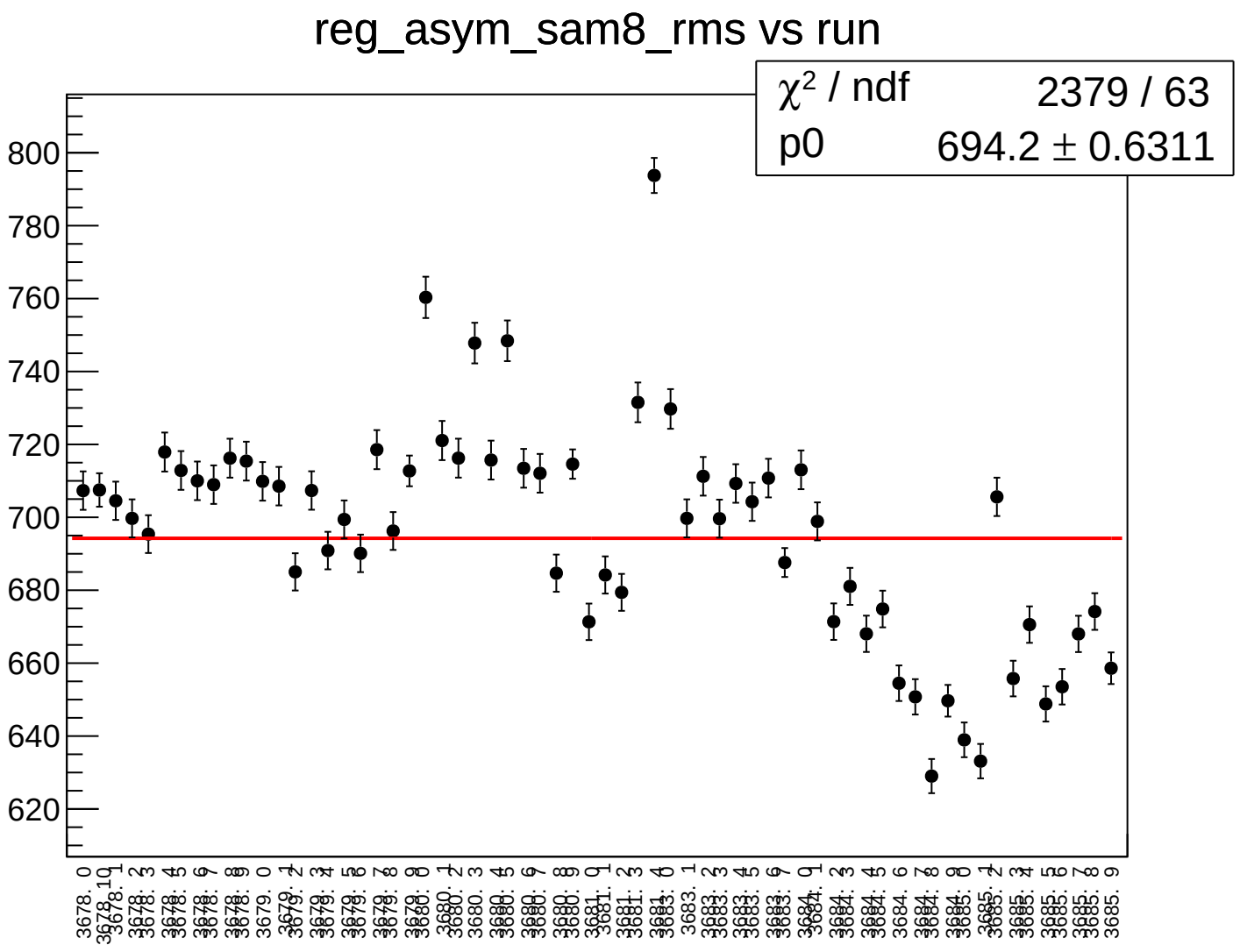

asym_sam7_correction_mean vs run
×10^3
χ² / ndf 58.59 / 63
p0 1453 ± 5887
pull
Entries 64
Mean −88.66
Std Dev 217.6

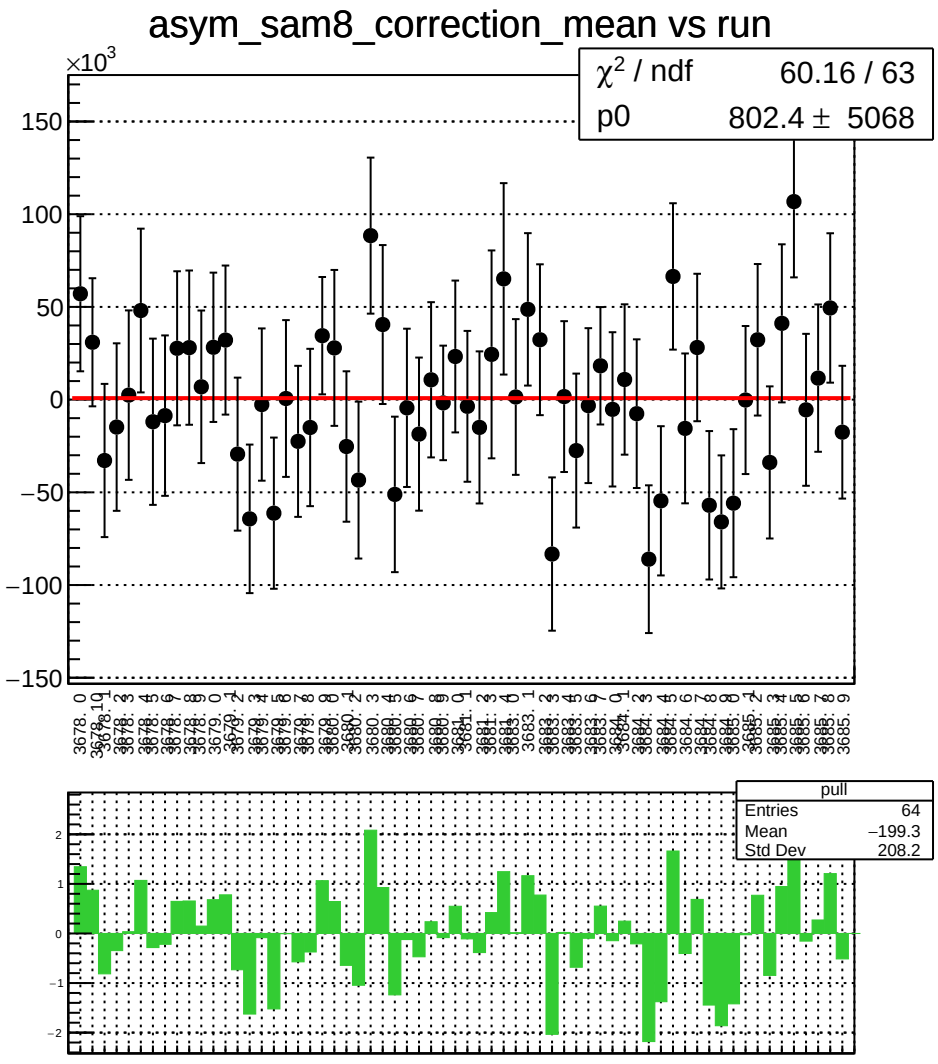

pull1D
Entries 64
Mean 0.0006548
Std Dev 0.9568

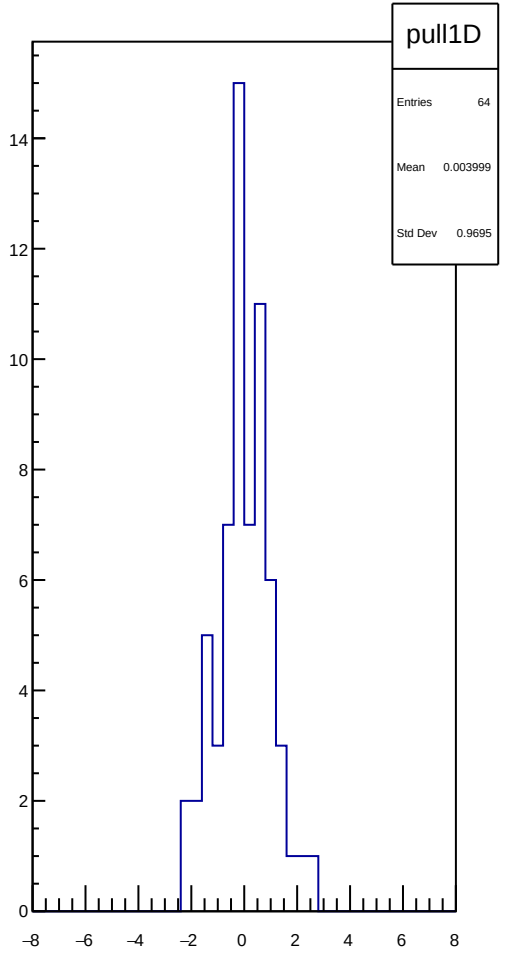

asym_sam7_correction_rms vs run
$\chi^2$ / ndf 1.097e+04 / 63
p0 4563 ± 4.163
10000
9000
8000
7000
6000
5000
4000

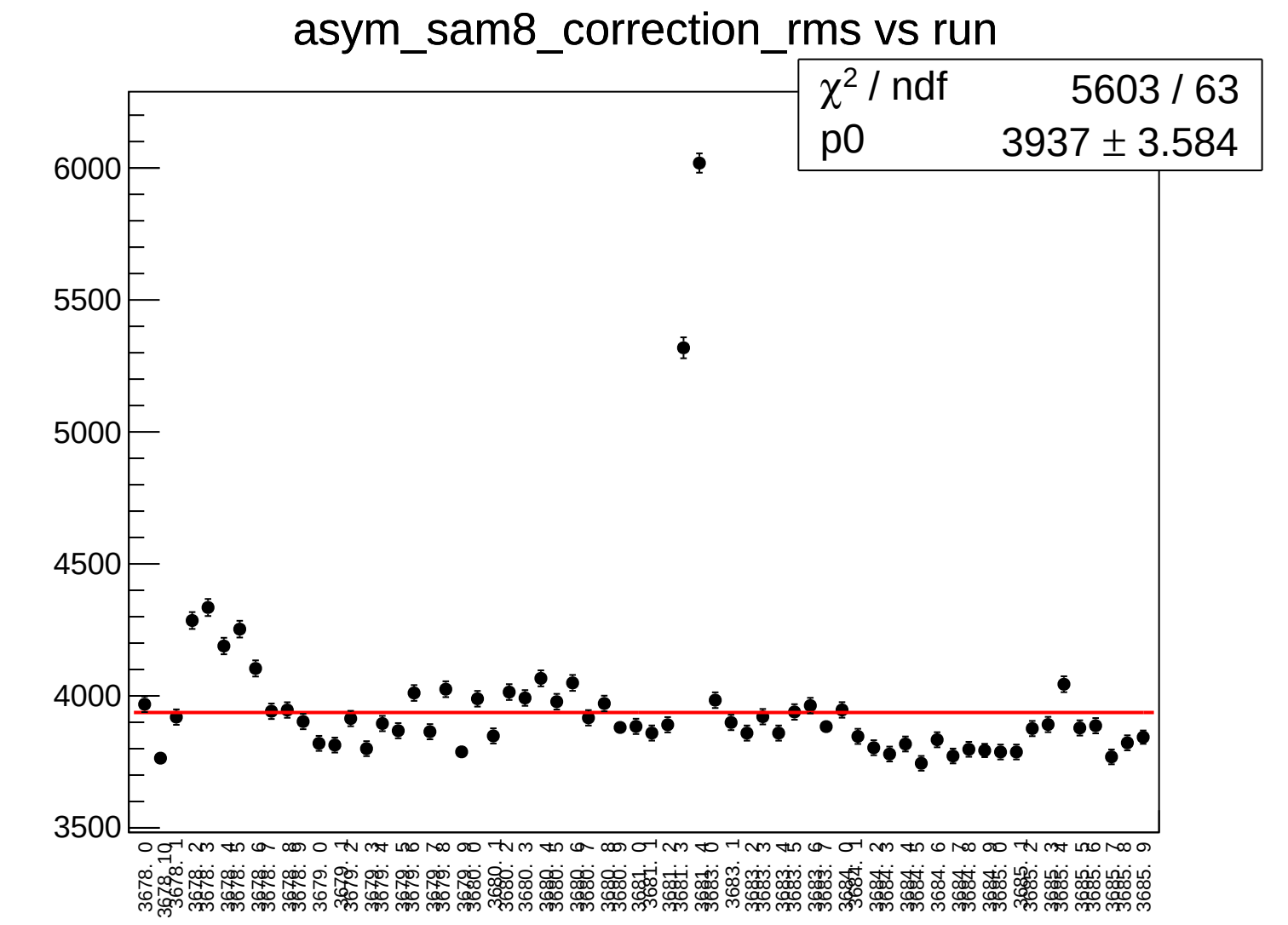

reg_asym_sam8_mean vs run
χ² / ndf 80.91 / 63
p0 −94.51 ± 892.5
pull
Entries 64
Mean 164.7
Std Dev 135.4

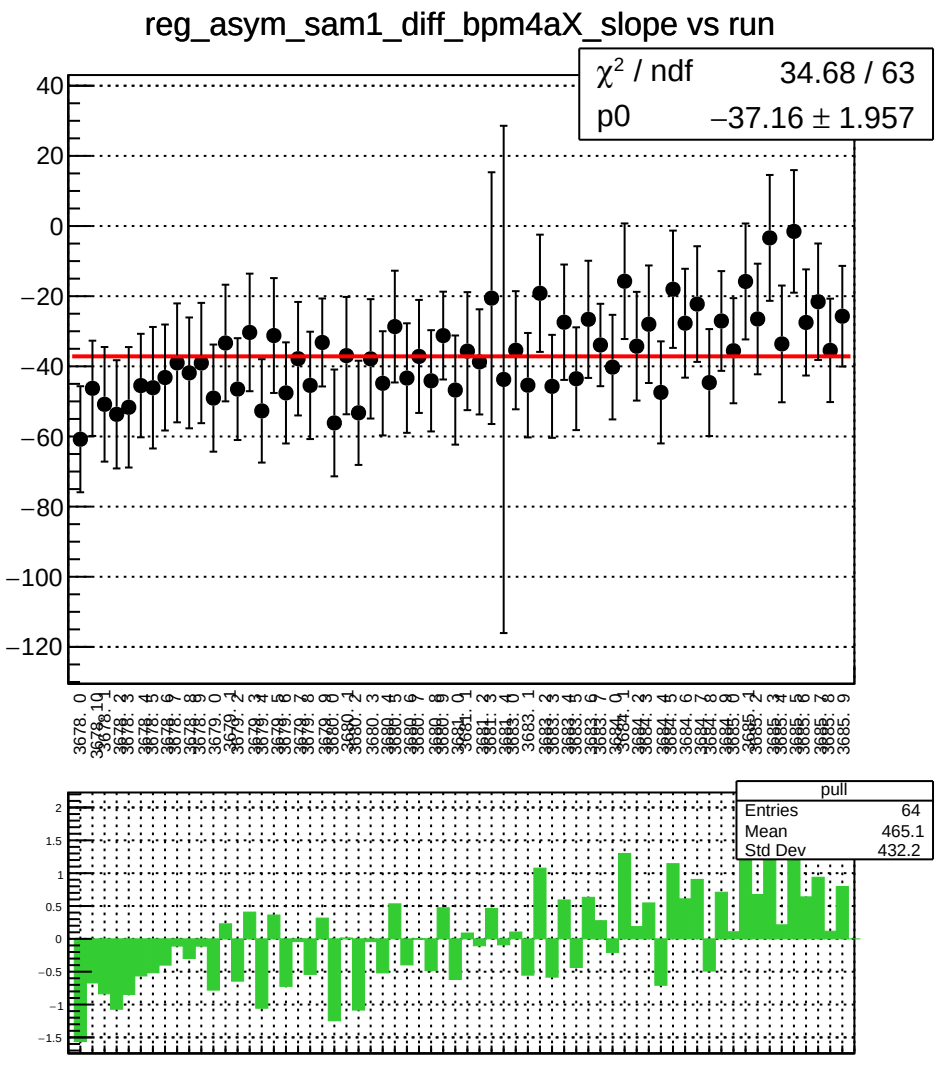

pull1D
Entries 64
Mean 0.01614
Std Dev 1.124

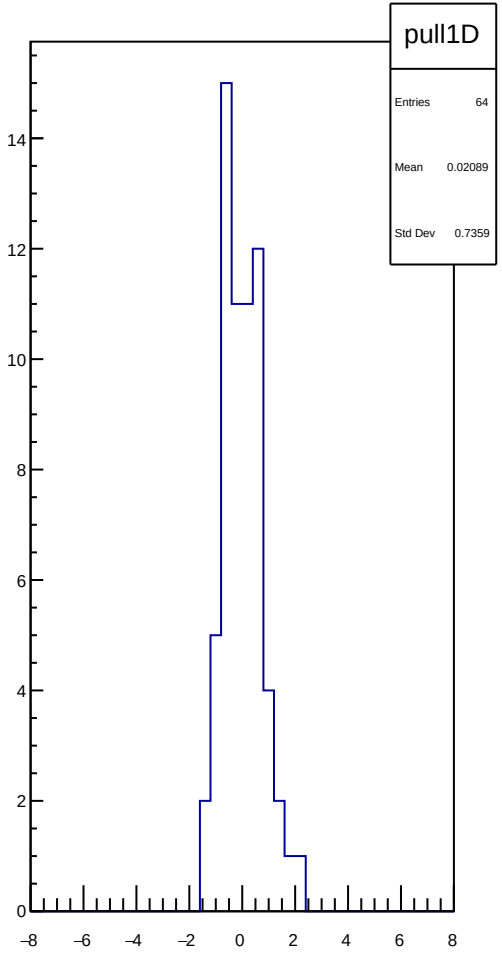

reg_asym_sam8_rms vs run
χ² / ndf 2379 / 63
p0 694.2 ± 0.6311
800
780
760
740
720
700
680
660
640
620

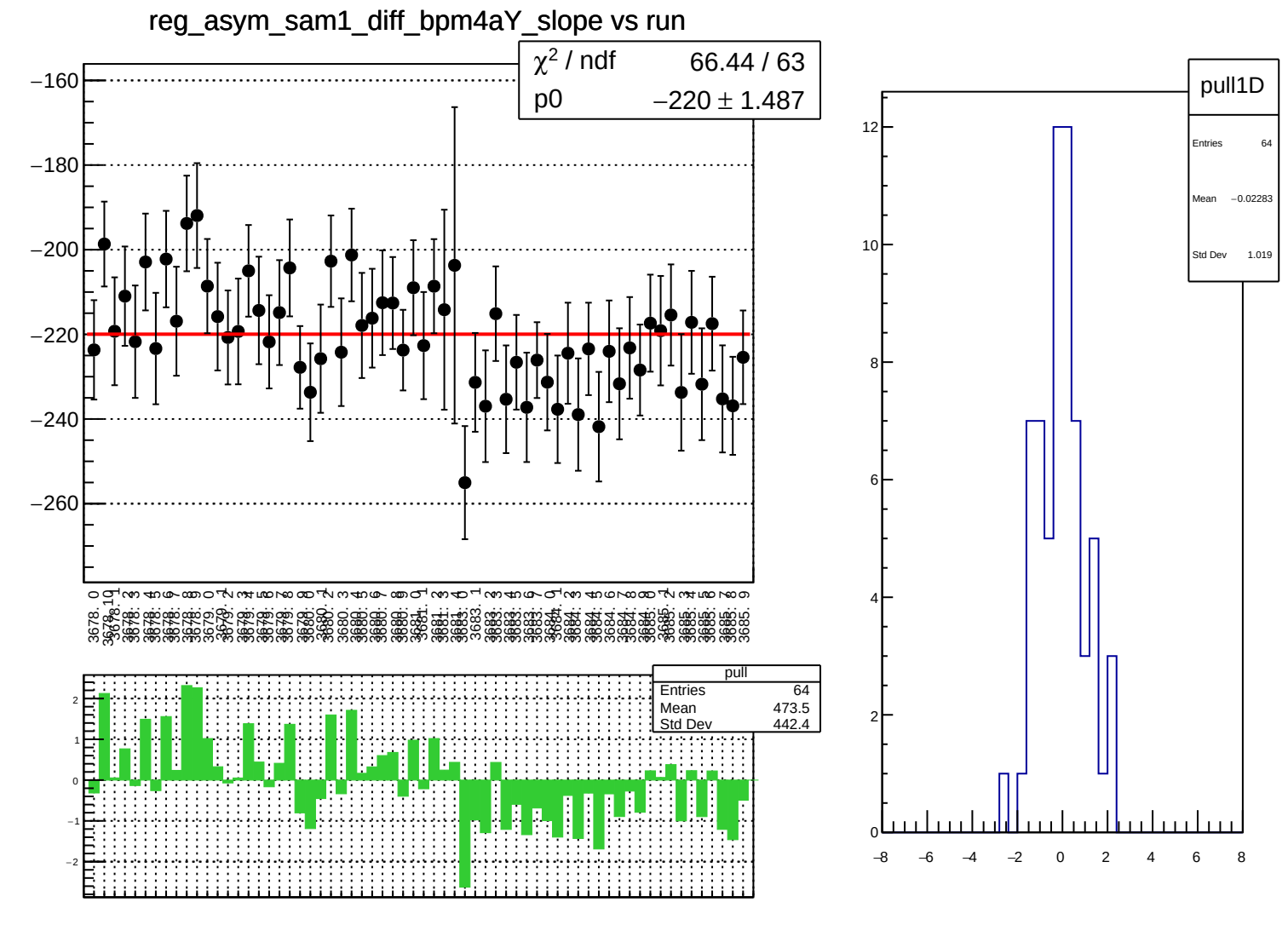

asym_sam8_correction_mean vs run
×10^3
χ² / ndf 60.16 / 63
p0 802.4 ± 5068
150
100
50
0
−50
−100
−150
pull
Entries 64
Mean −199.3
Std Dev 208.2
2
1
0
−1
−2

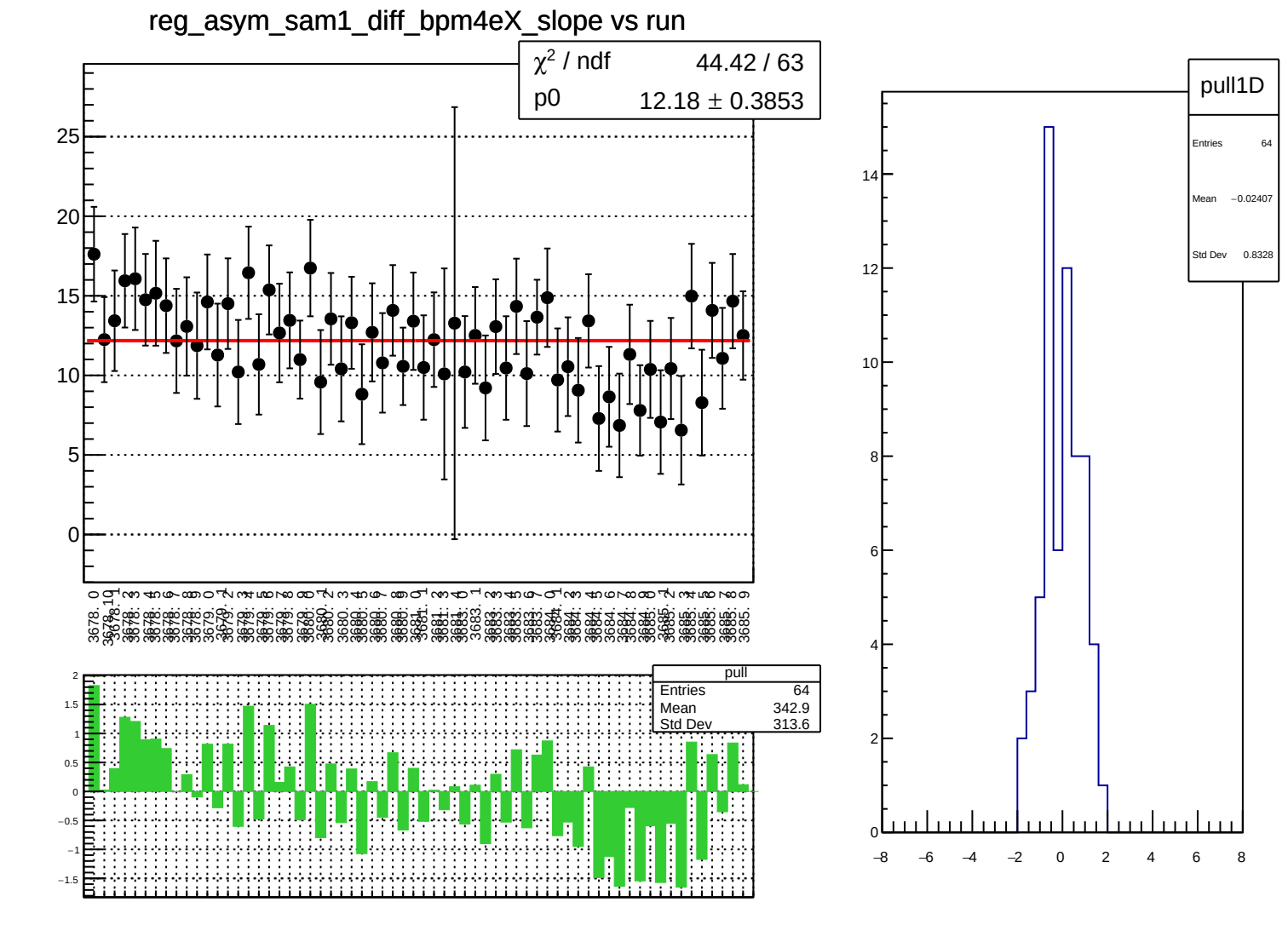

pull1D
Entries 64
Mean 0.003999
Std Dev 0.9695
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

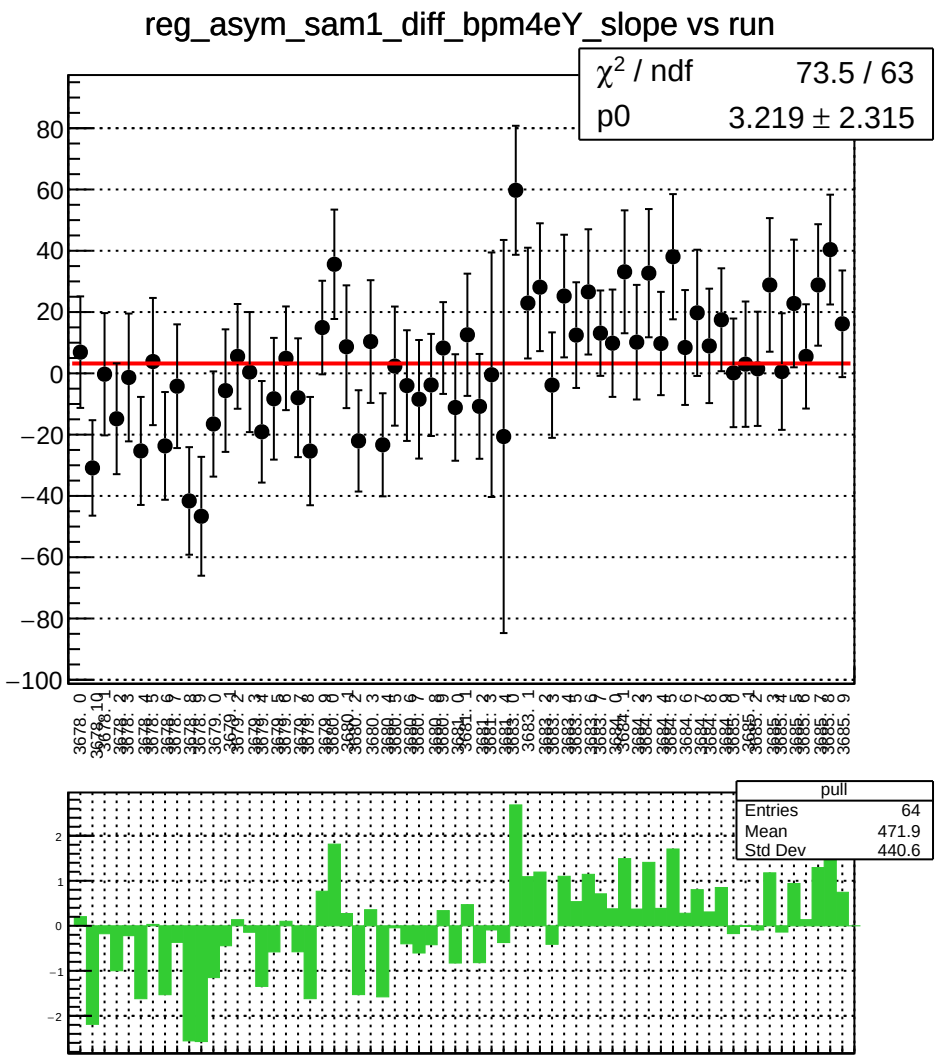

asym_sam8_correction_rms vs run
χ² / ndf 5603 / 63
p0 3937 ± 3.584
6000
5500
5000
4500
4000
3500

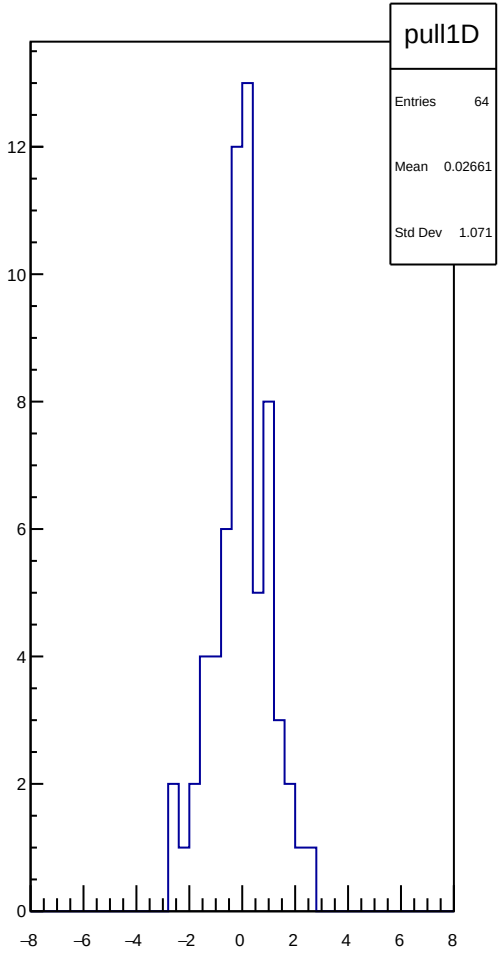

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 34.68 / 63
p0 −37.16 ± 1.957
pull
Entries 64
Mean 465.1
Std Dev 432.2

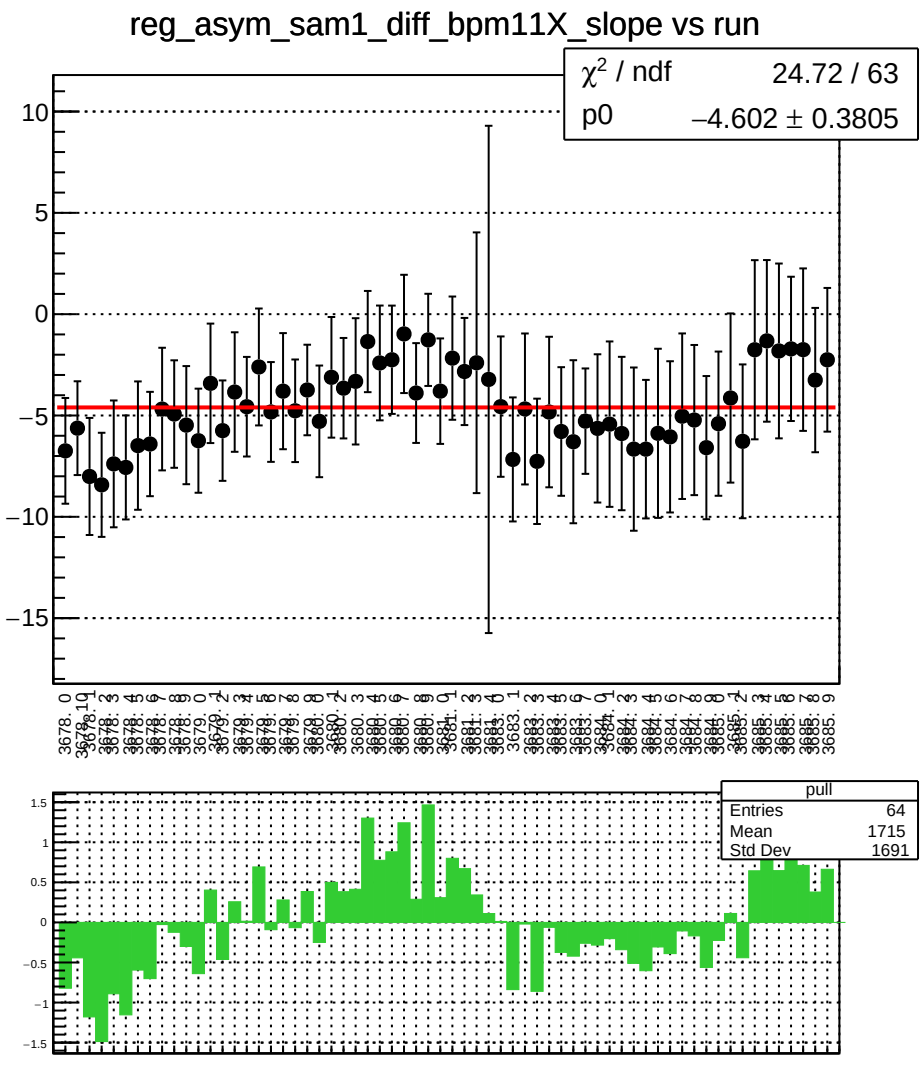

pull1D
Entries 64
Mean 0.02089
Std Dev 0.7359

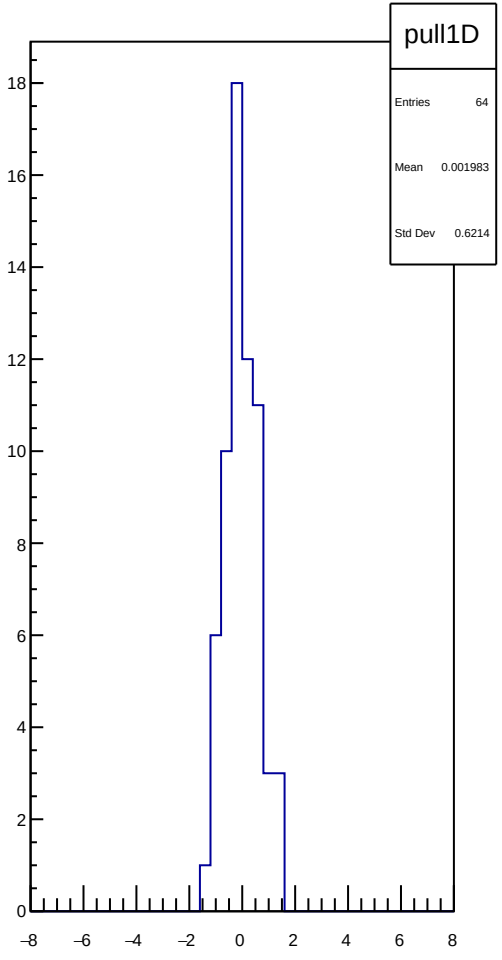

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 66.44 / 63
p0 −220 ± 1.487
−160
−180
−200
−220
−240
−260
pull
Entries 64
Mean 473.5
Std Dev 442.4
2
1
0
−1
−2
pull1D
Entries 64
Mean −0.02283
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

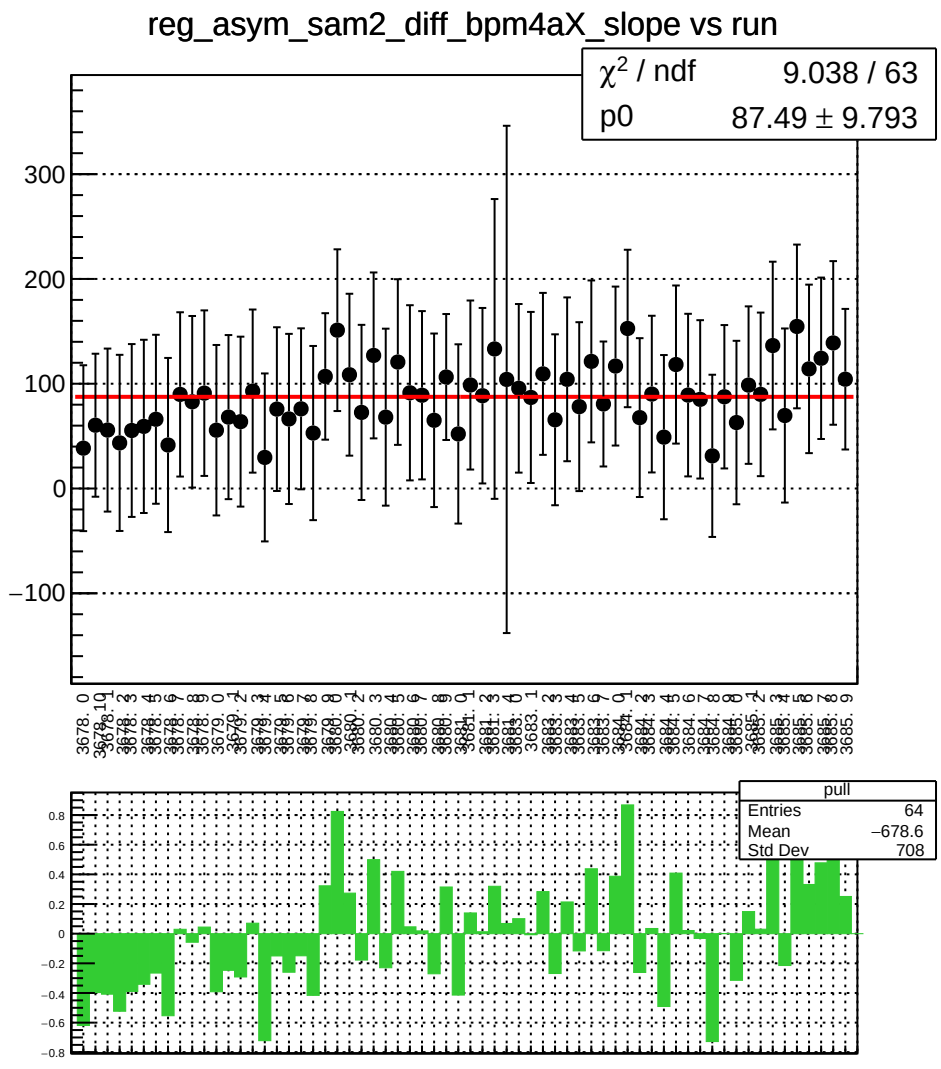

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 44.42 / 63
p0 12.18 ± 0.3853
pull
Entries 64
Mean 342.9
Std Dev 313.6
pull1D
Entries 64
Mean −0.02407
Std Dev 0.8328

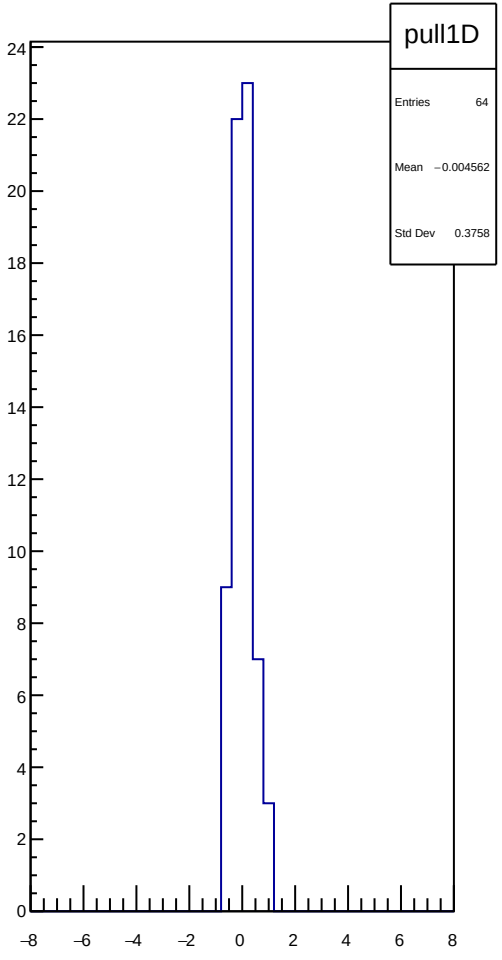

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 73.5 / 63
p0 3.219 ± 2.315
pull
Entries 64
Mean 471.9
Std Dev 440.6

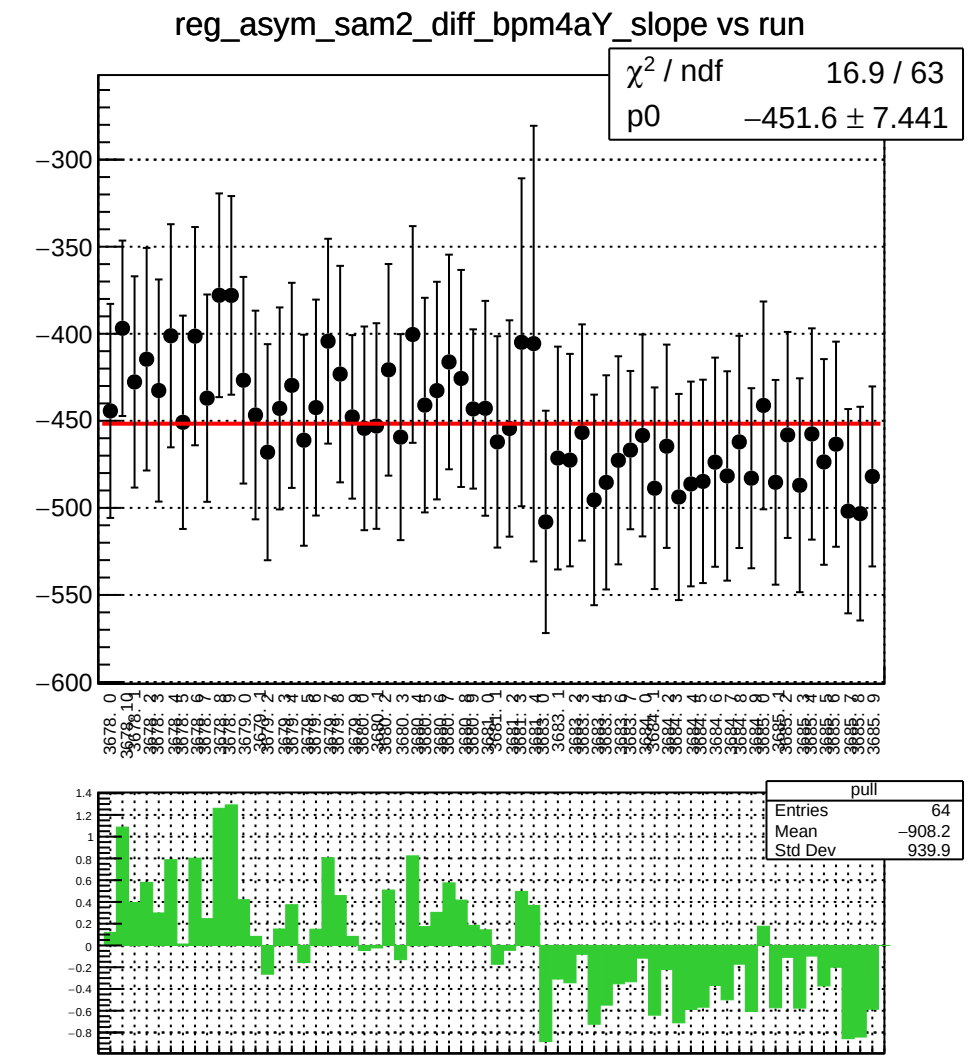

pull1D
Entries 64
Mean 0.02661
Std Dev 1.071

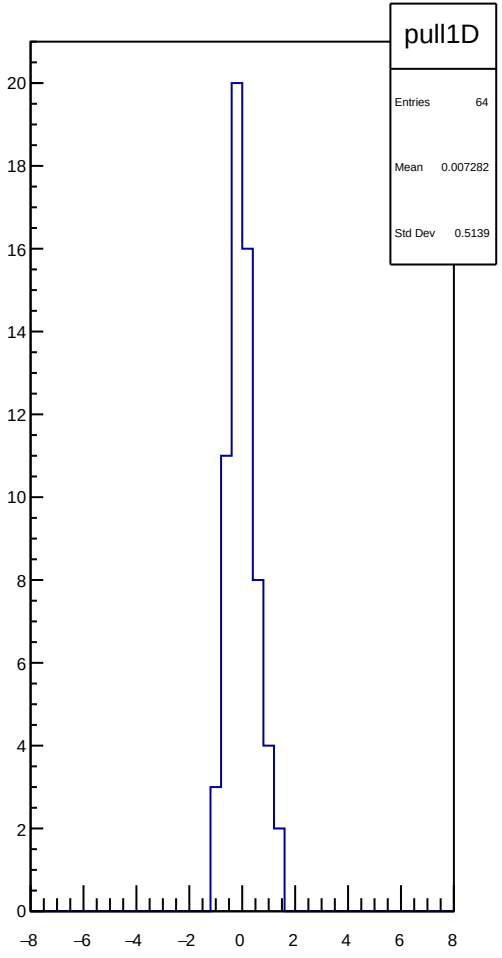

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 24.72 / 63
p0 −4.602 ± 0.3805
pull
Entries 64
Mean 1715
Std Dev 1691

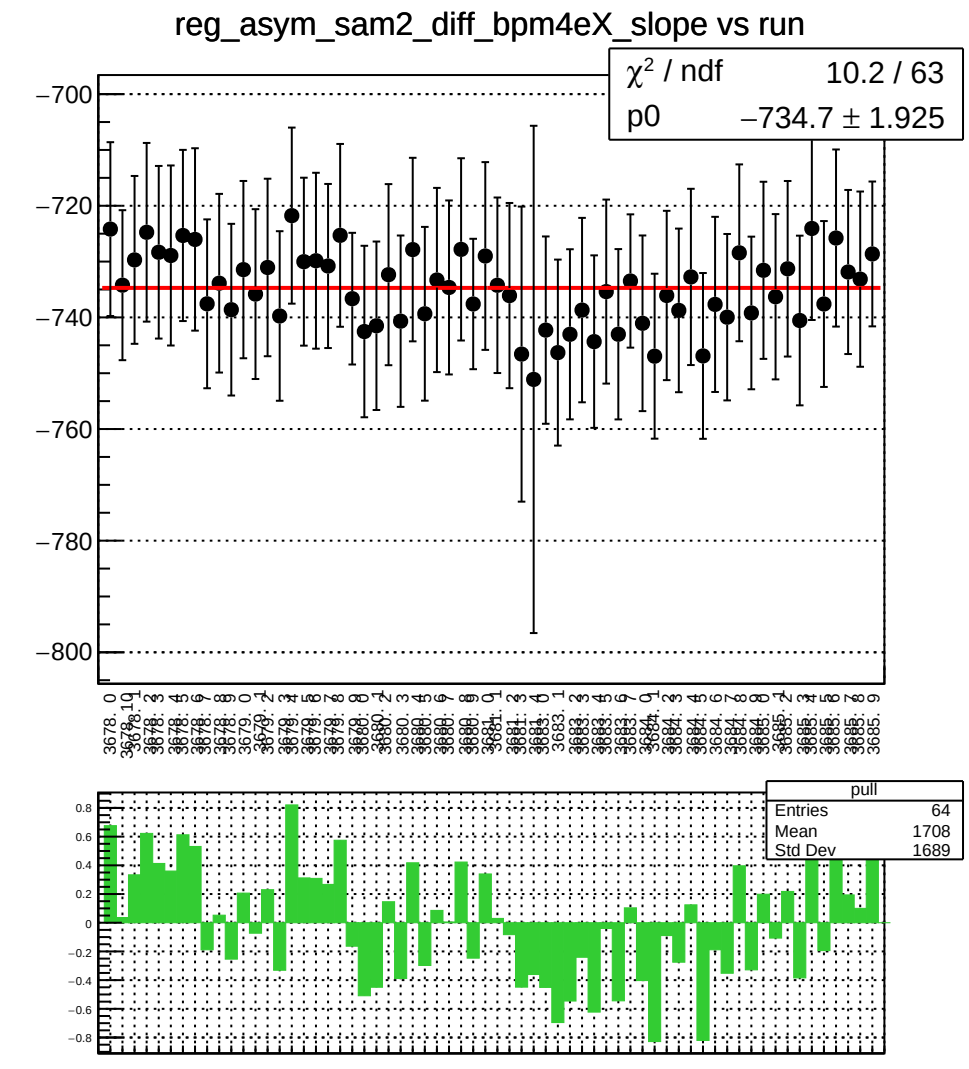

pull1D
Entries 64
Mean 0.001983
Std Dev 0.6214

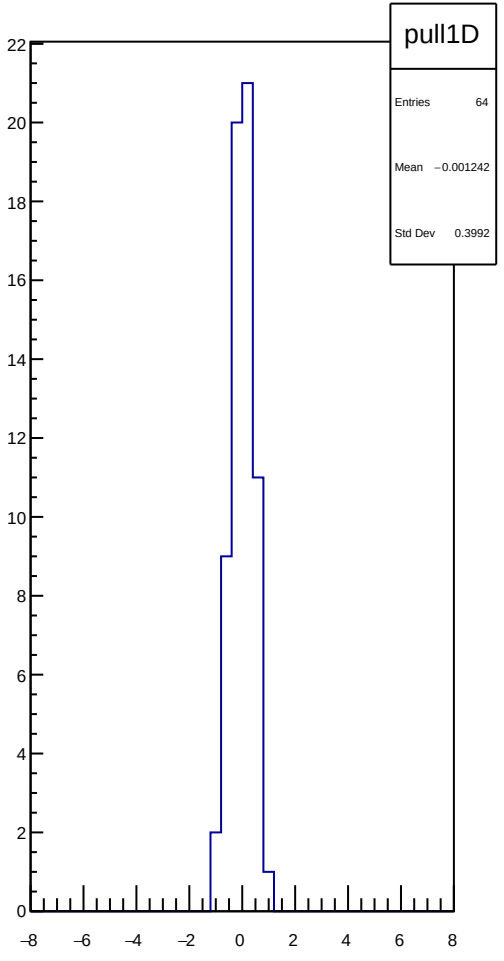

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 9.038 / 63
p0 87.49 ± 9.793
pull
Entries 64
Mean −678.6
Std Dev 708

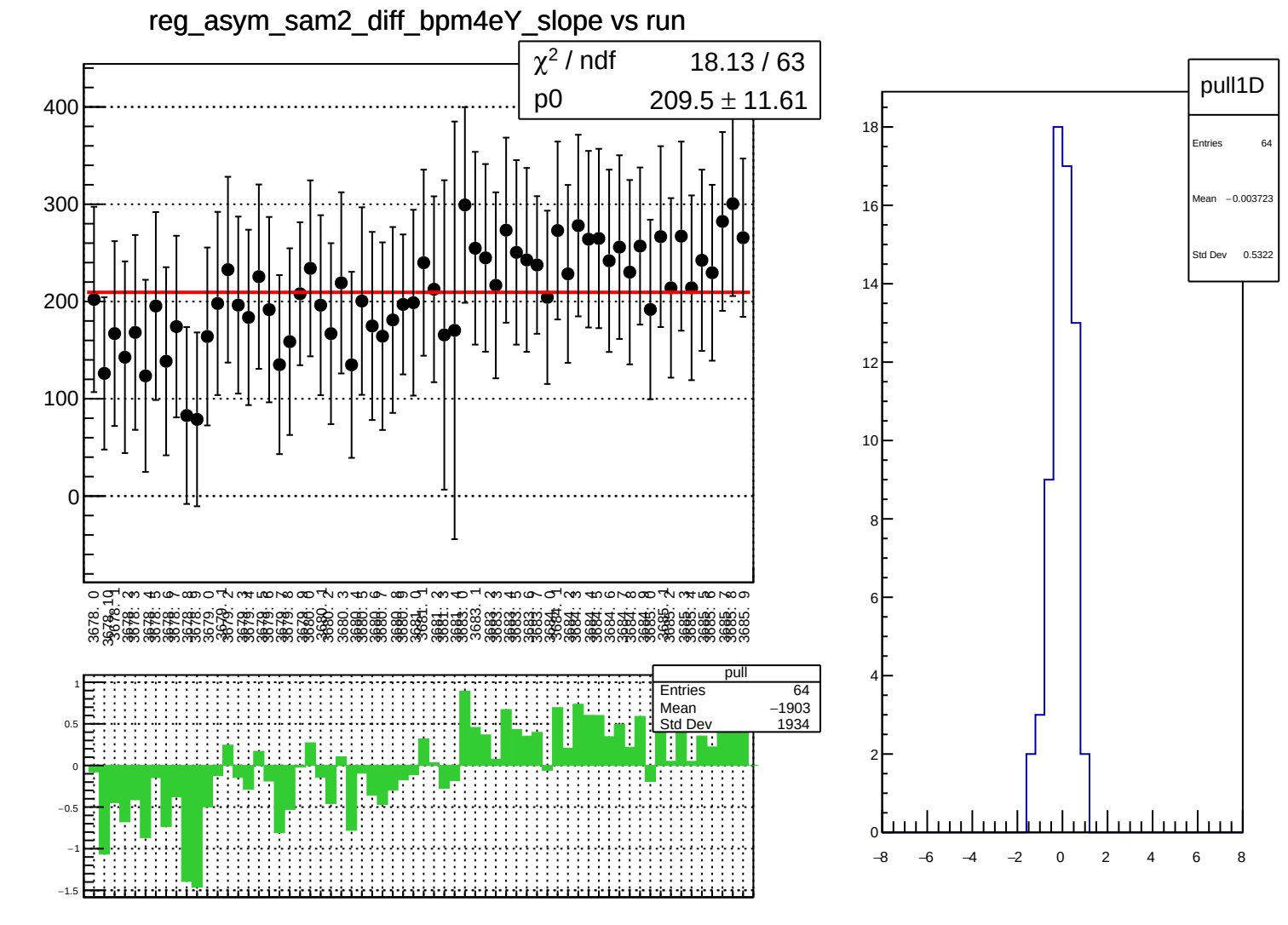

pull1D
Entries 64
Mean −0.004562
Std Dev 0.3758

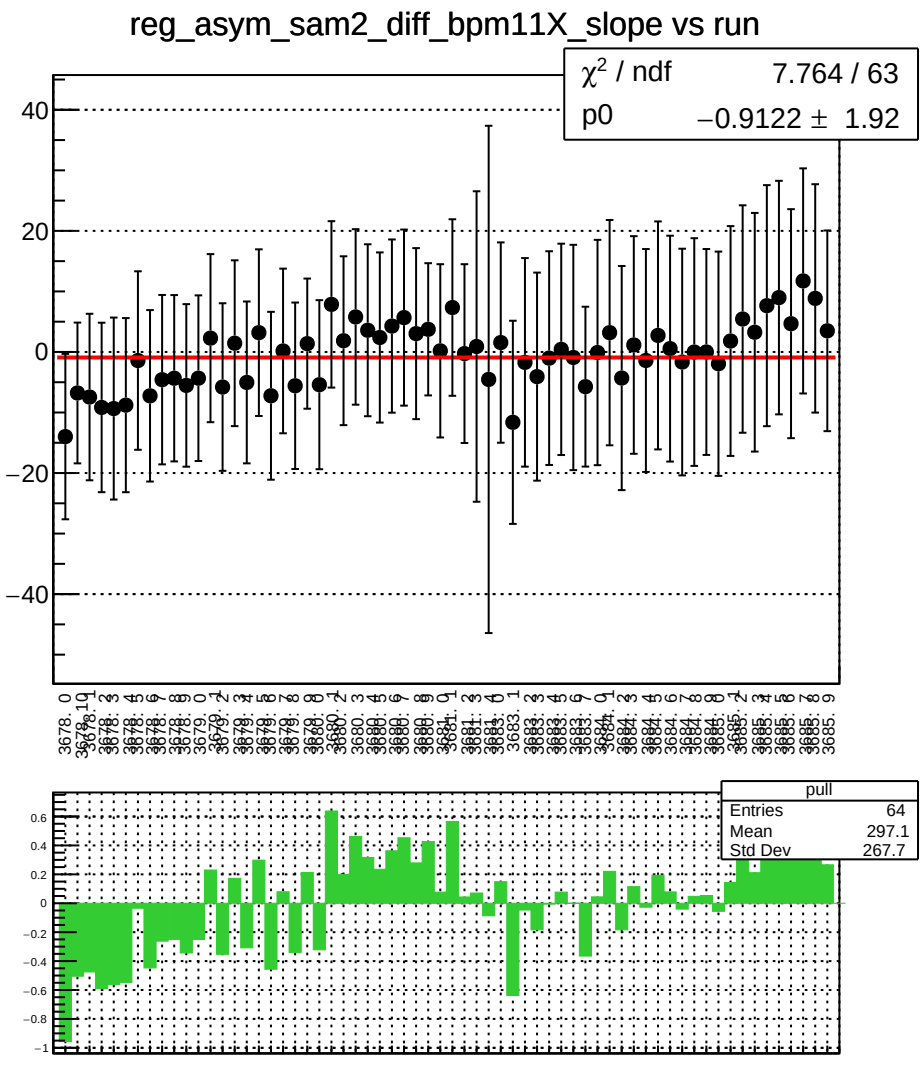

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 16.9 / 63
p0 −451.6 ± 7.441
pull
Entries 64
Mean −908.2
Std Dev 939.9

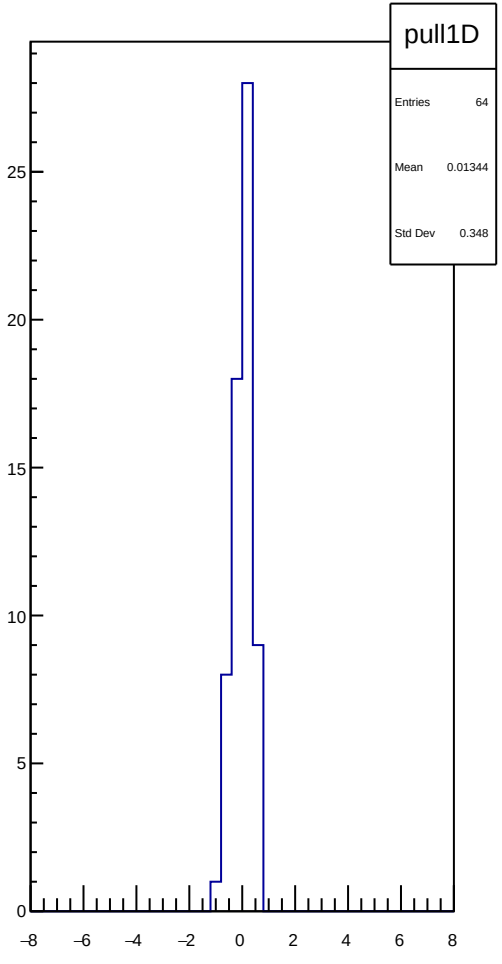

pull1D
Entries 64
Mean 0.007282
Std Dev 0.5139

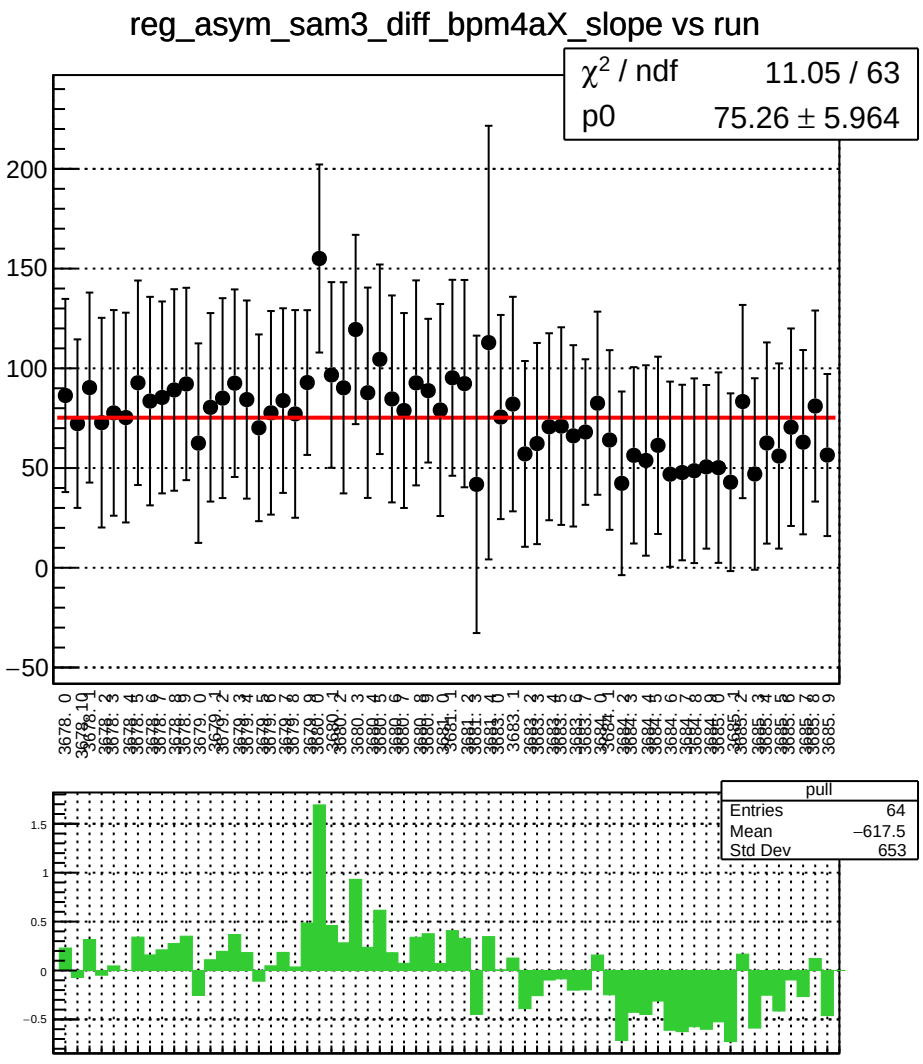

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 10.2 / 63
p0 −734.7 ± 1.925
pull
Entries 64
Mean 1708
Std Dev 1689

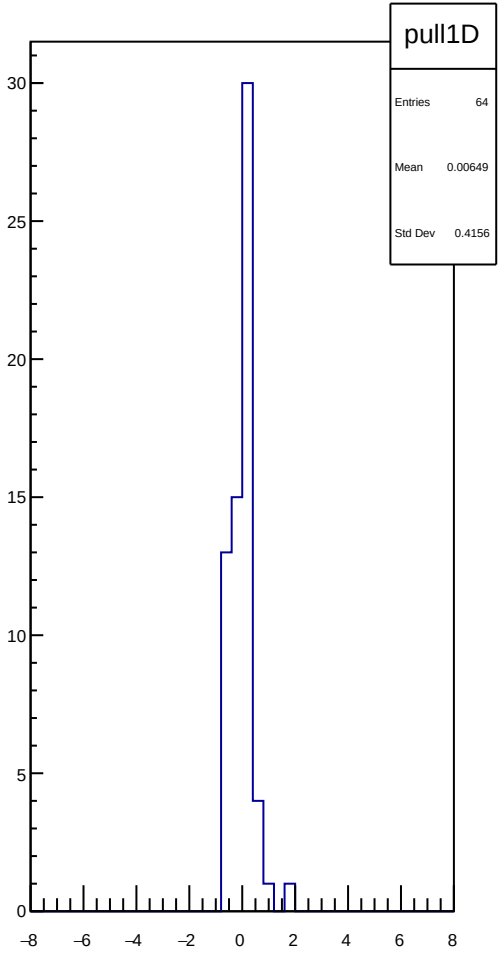

pull1D
Entries 64
Mean −0.001242
Std Dev 0.3992

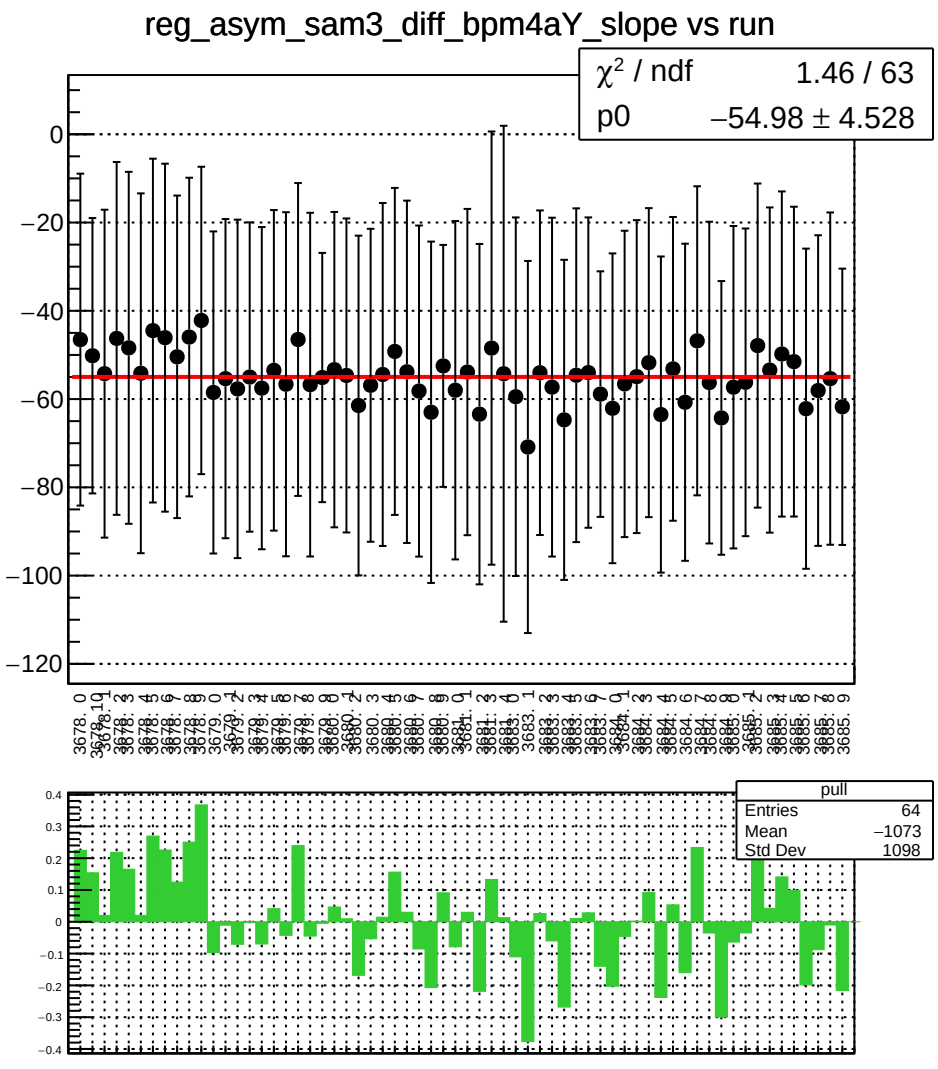

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 18.13 / 63
p0 209.5 ± 11.61
pull
Entries 64
Mean −1903
Std Dev 1934
pull1D
Entries 64
Mean −0.003723
Std Dev 0.5322

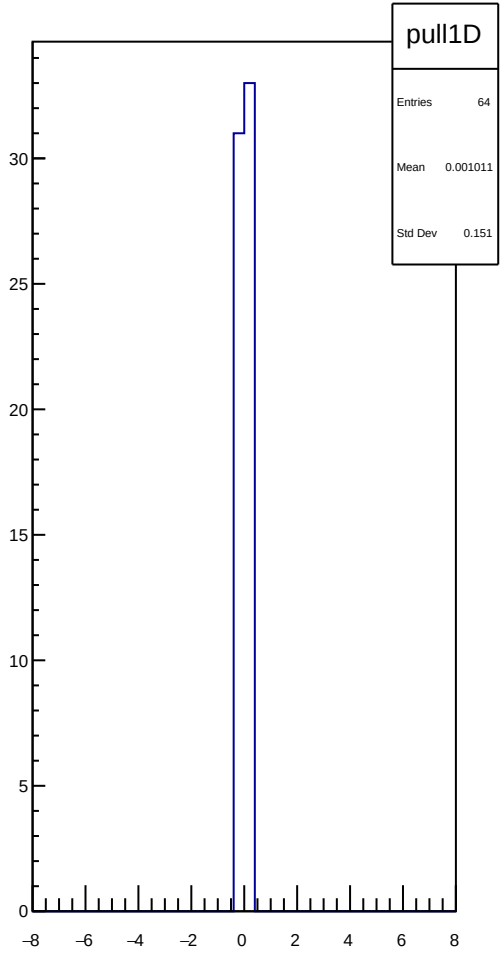

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 7.764 / 63
p0 −0.9122 ± 1.92
pull
Entries 64
Mean 297.1
Std Dev 267.7

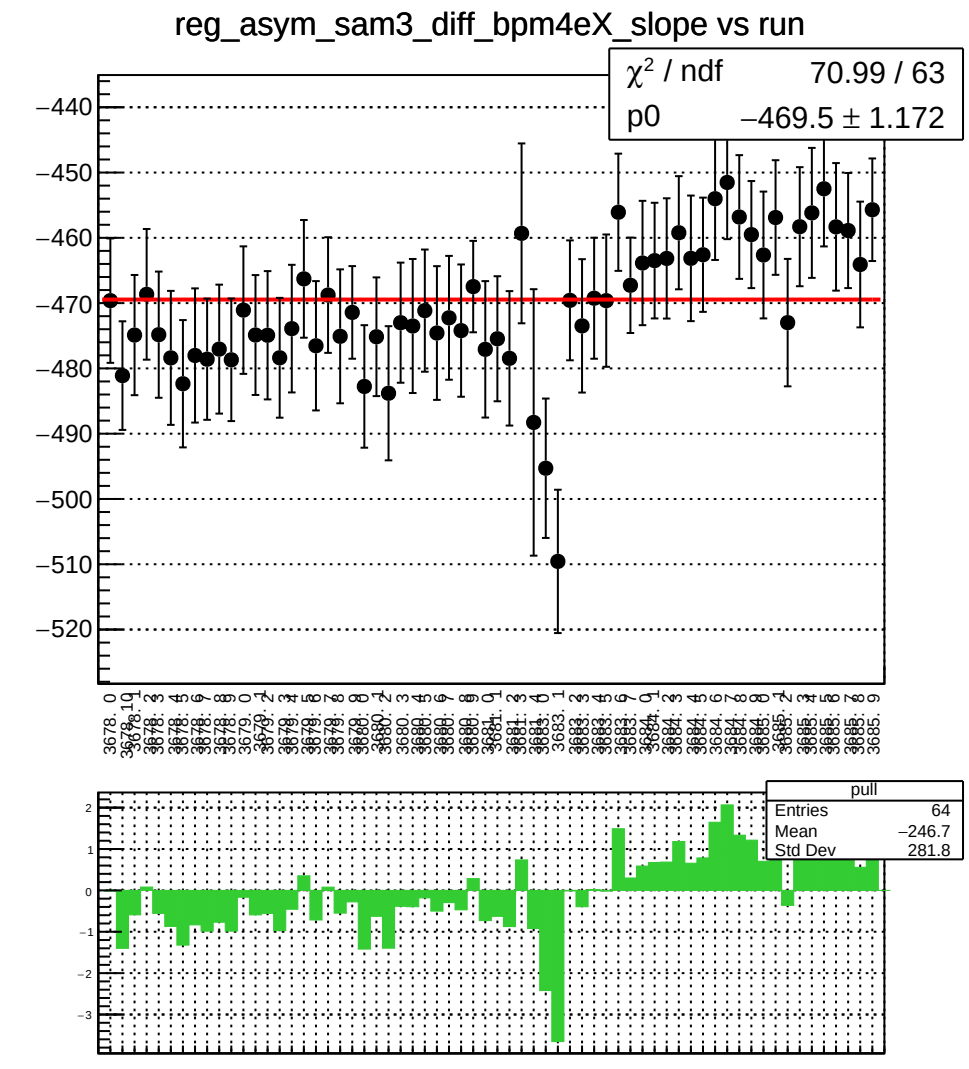

pull1D
Entries 64
Mean 0.01344
Std Dev 0.348

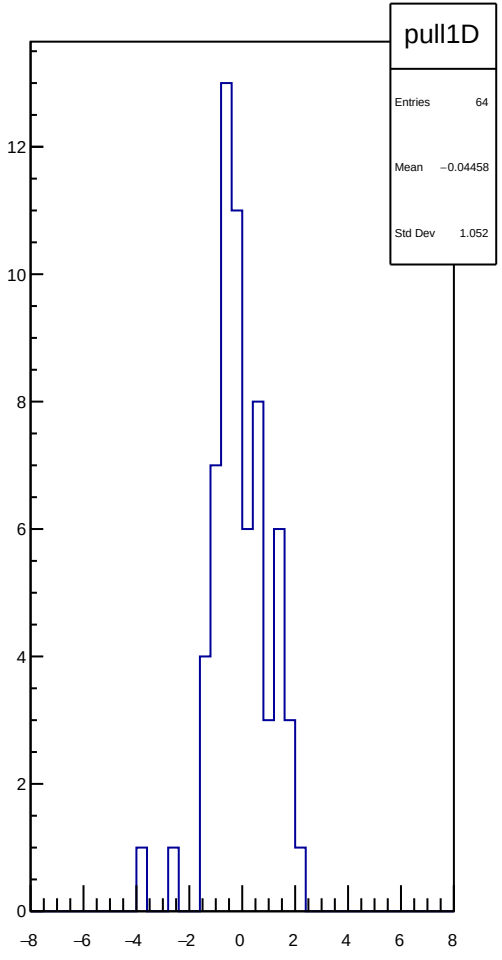

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 11.05 / 63
p0 75.26 ± 5.964
pull
Entries 64
Mean −617.5
Std Dev 653

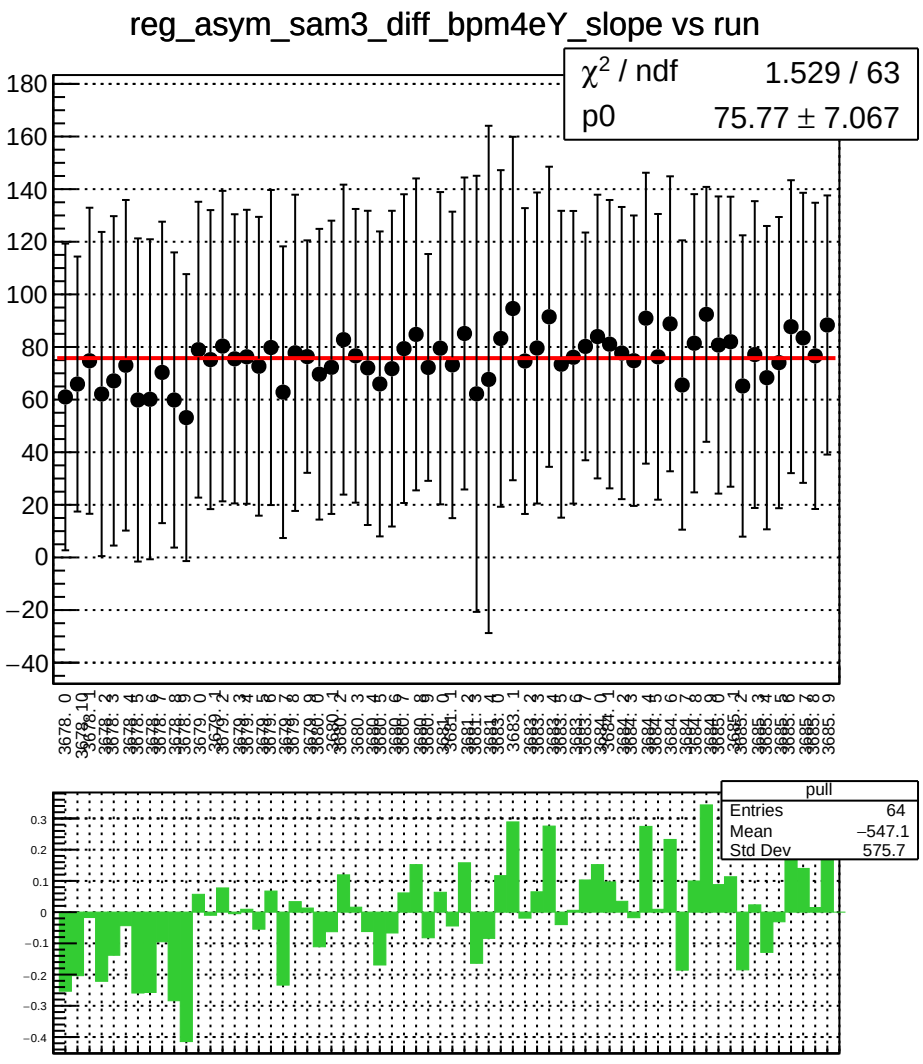

pull1D
Entries 64
Mean 0.00649
Std Dev 0.4156

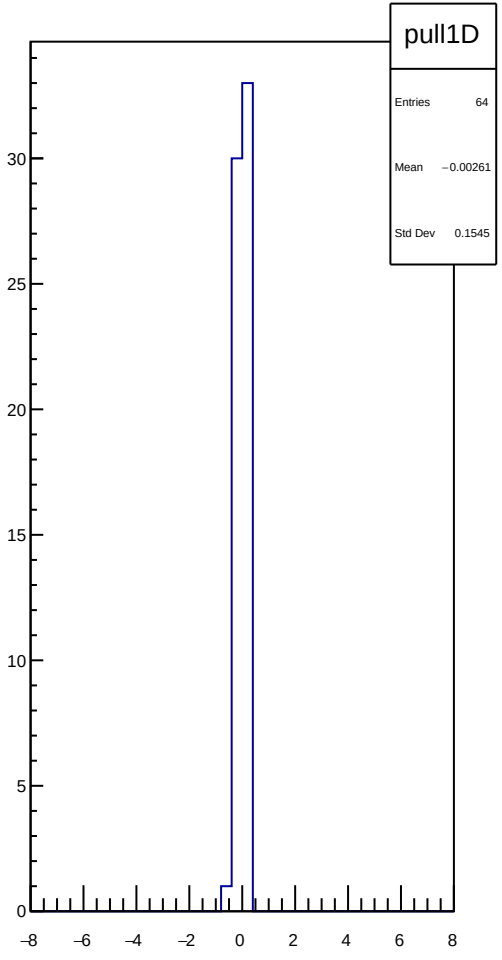

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.46 / 63
p0 −54.98 ± 4.528
pull
Entries 64
Mean −1073
Std Dev 1098

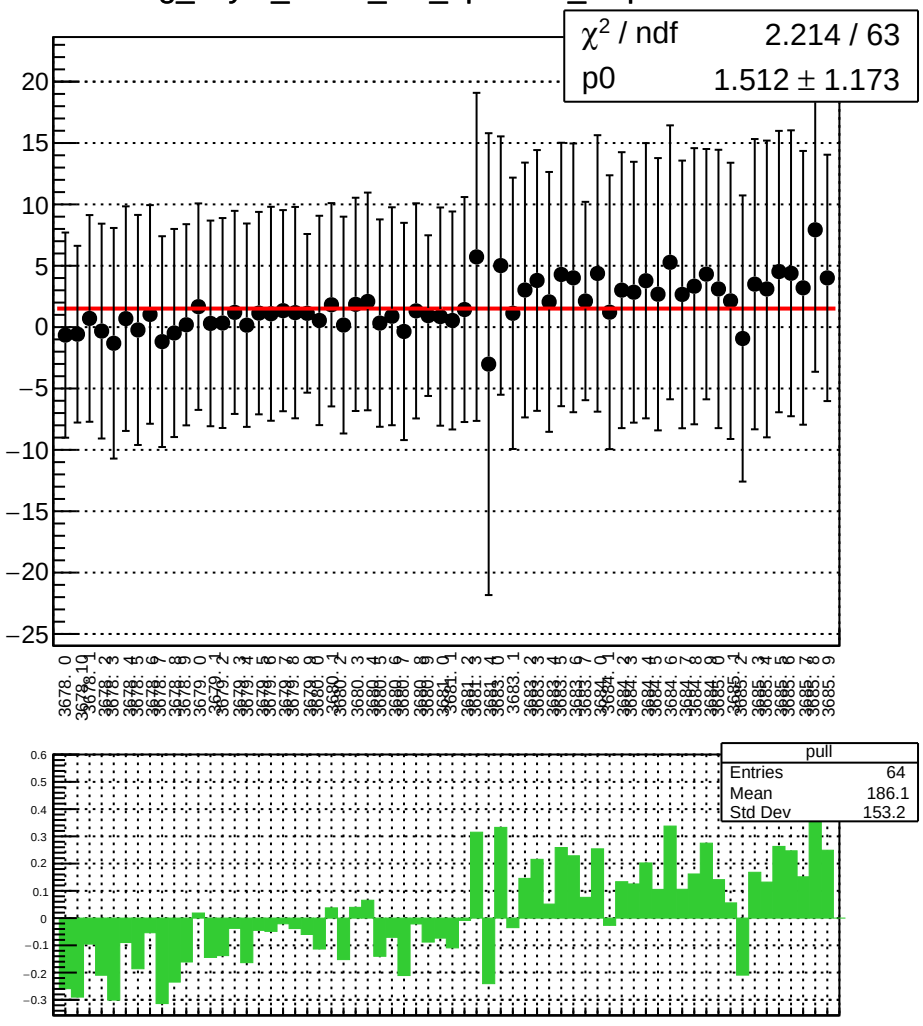

pull1D
Entries 64
Mean 0.001011
Std Dev 0.151

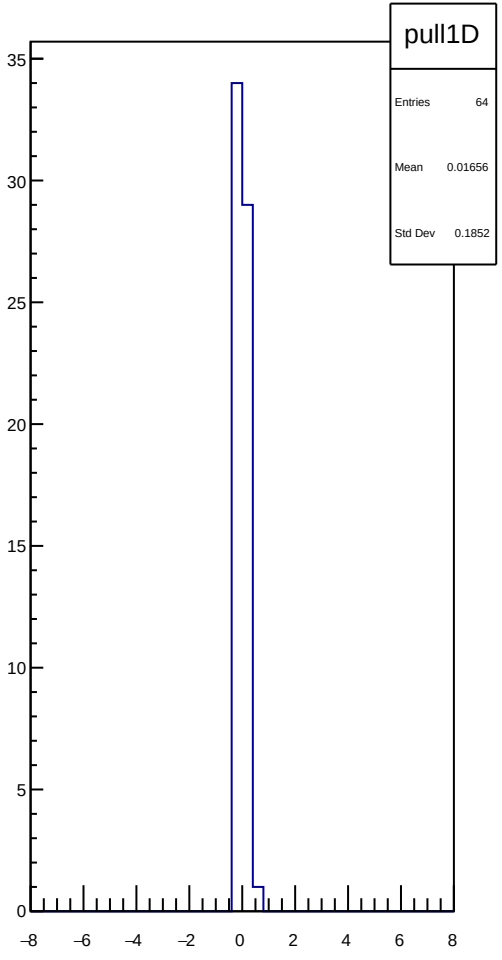

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 70.99 / 63
p0 −469.5 ± 1.172
pull
Entries 64
Mean −246.7
Std Dev 281.8

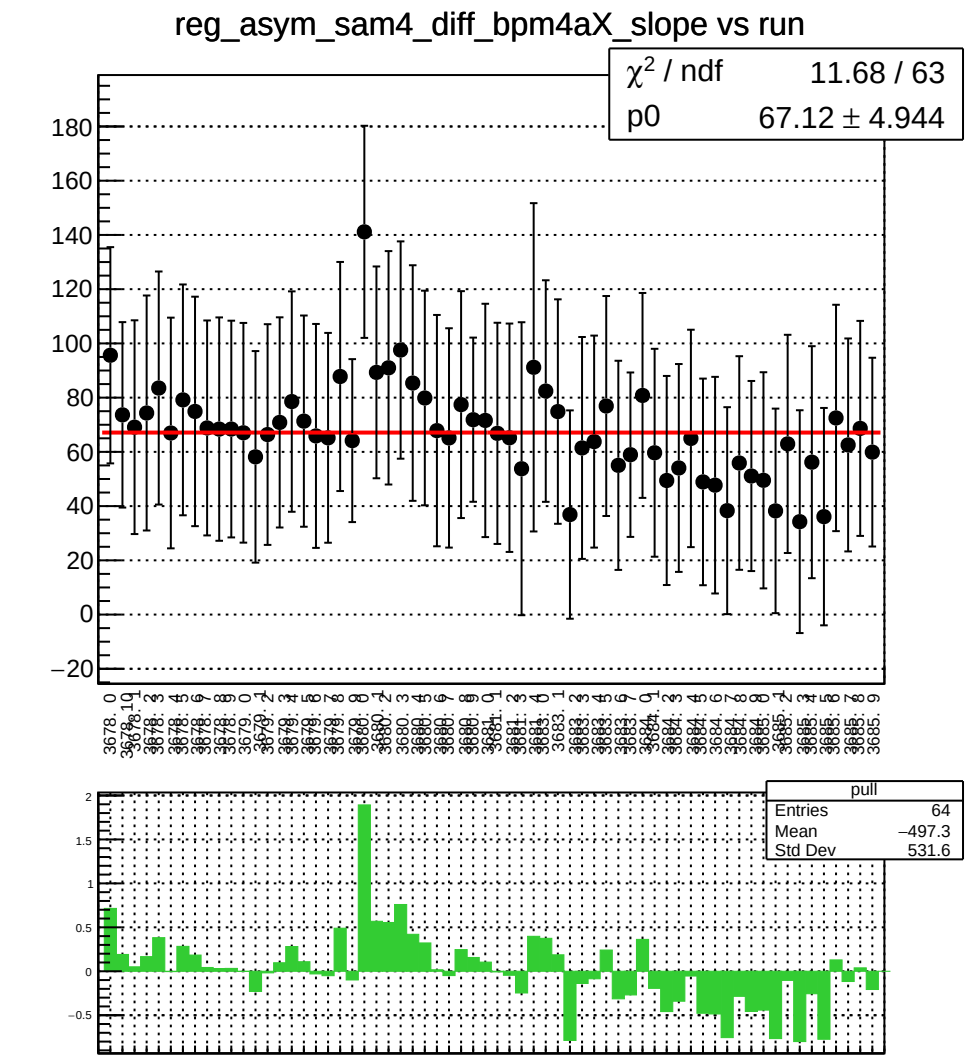

pull1D
Entries 64
Mean −0.04458
Std Dev 1.052

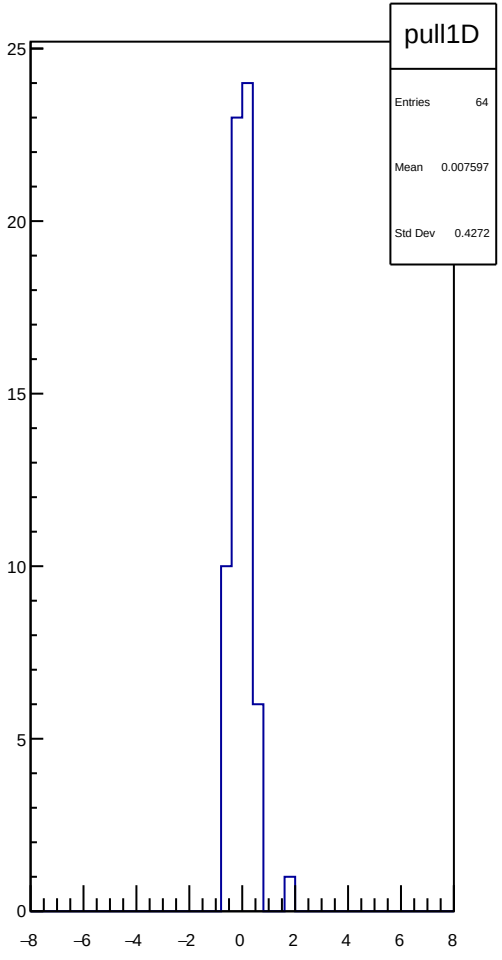

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.529 / 63
p0 75.77 ± 7.067
pull
Entries 64
Mean −547.1
Std Dev 575.7

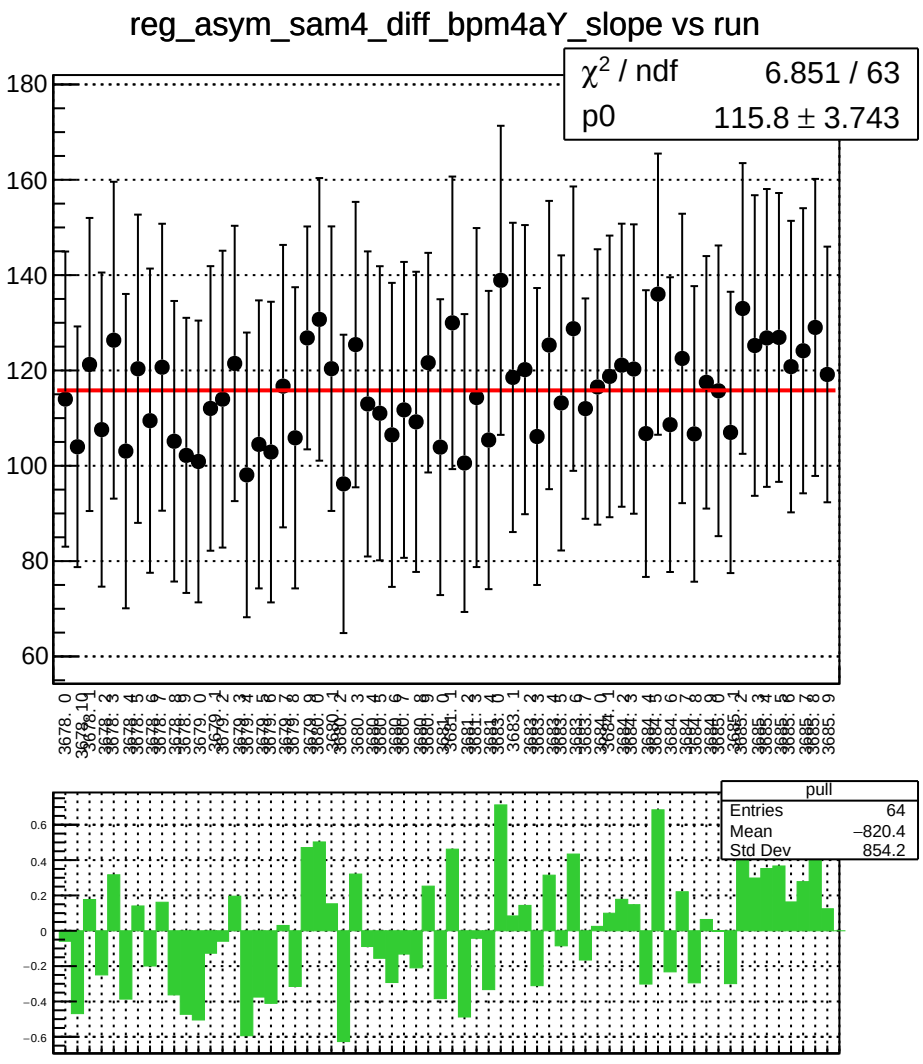

pull1D
Entries 64
Mean −0.00261
Std Dev 0.1545

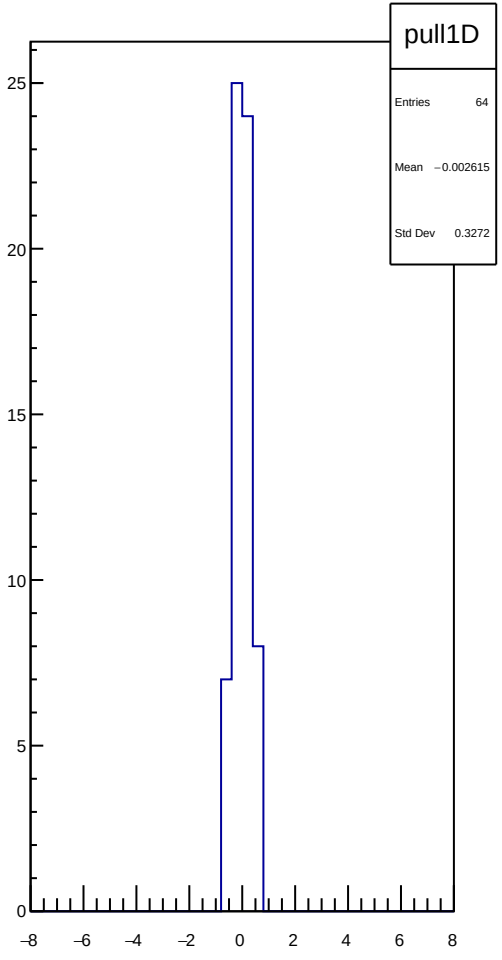

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 2.214 / 63
p0 1.512 ± 1.173
pull
Entries 64
Mean 186.1
Std Dev 153.2

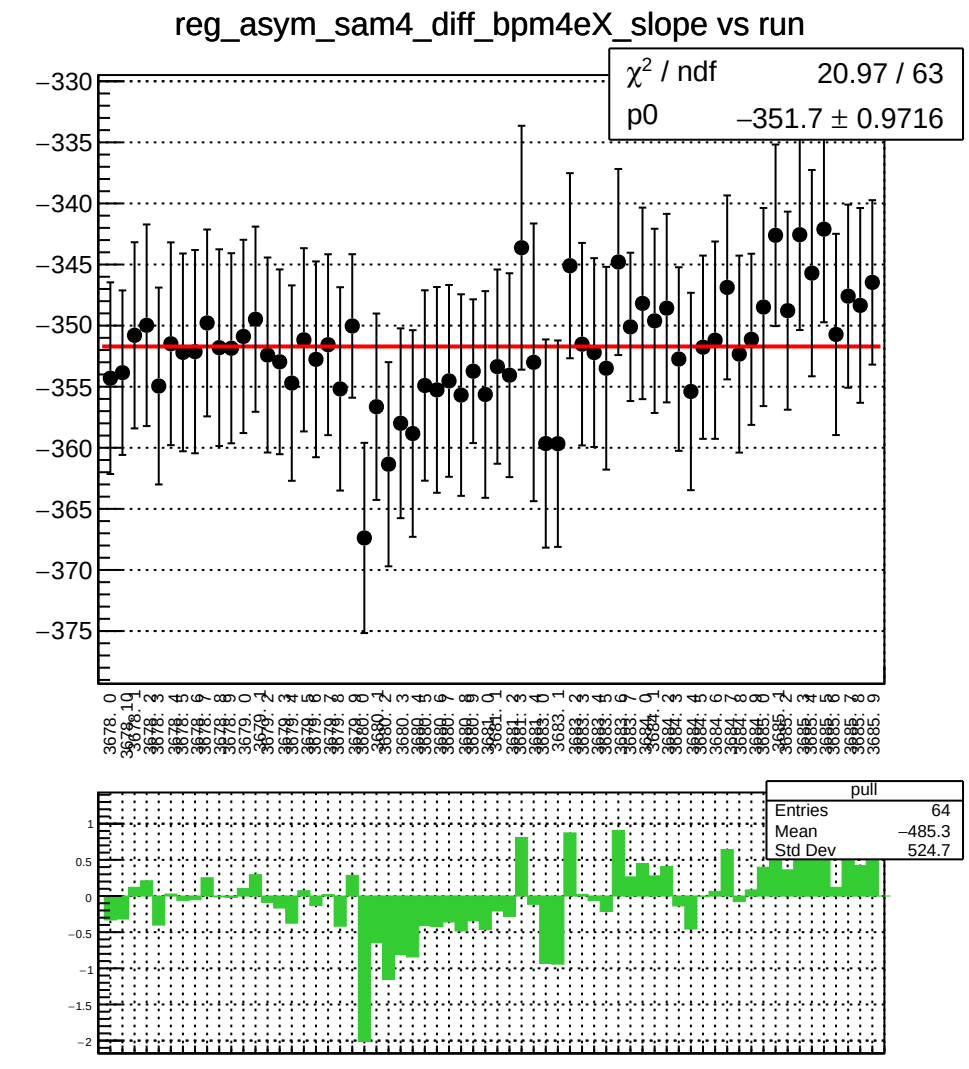

pull1D
Entries 64
Mean 0.01656
Std Dev 0.1852

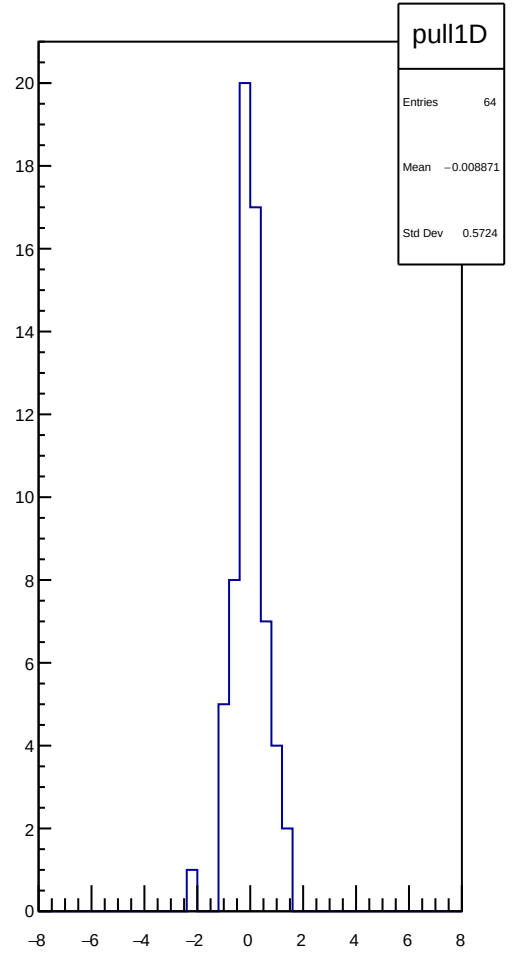

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 11.68 / 63
p0 67.12 ± 4.944
pull
Entries 64
Mean −497.3
Std Dev 531.6

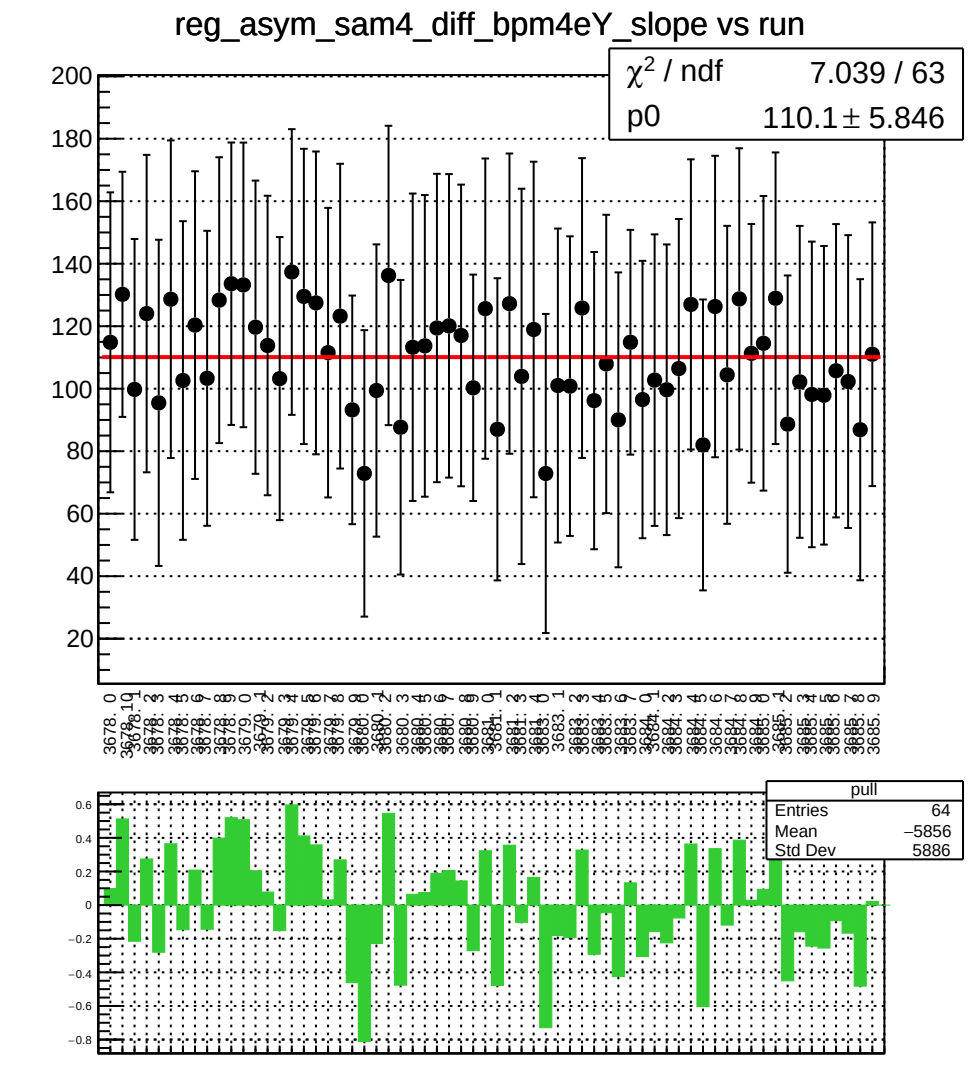

pull1D
Entries 64
Mean 0.007597
Std Dev 0.4272

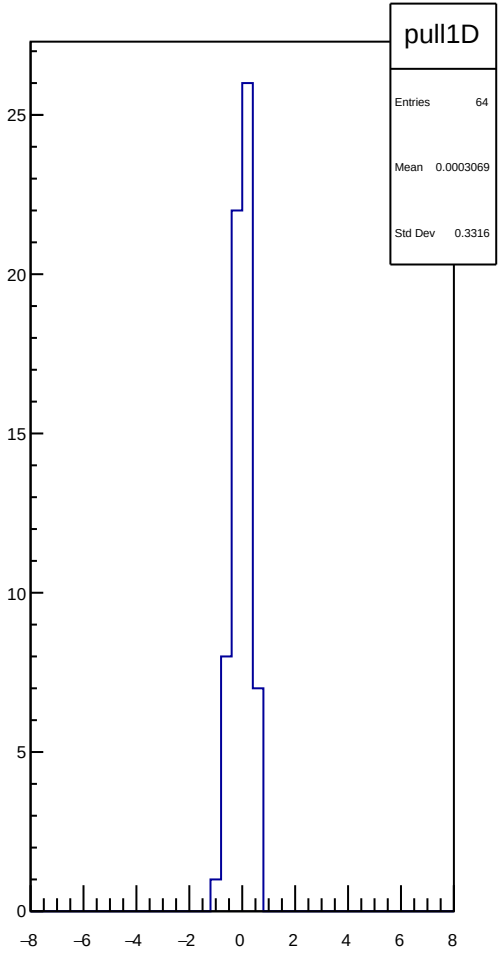

reg_asym_sam4_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 6.851 / 63
p0 115.8 ± 3.743
pull
Entries 64
Mean −820.4
Std Dev 854.2

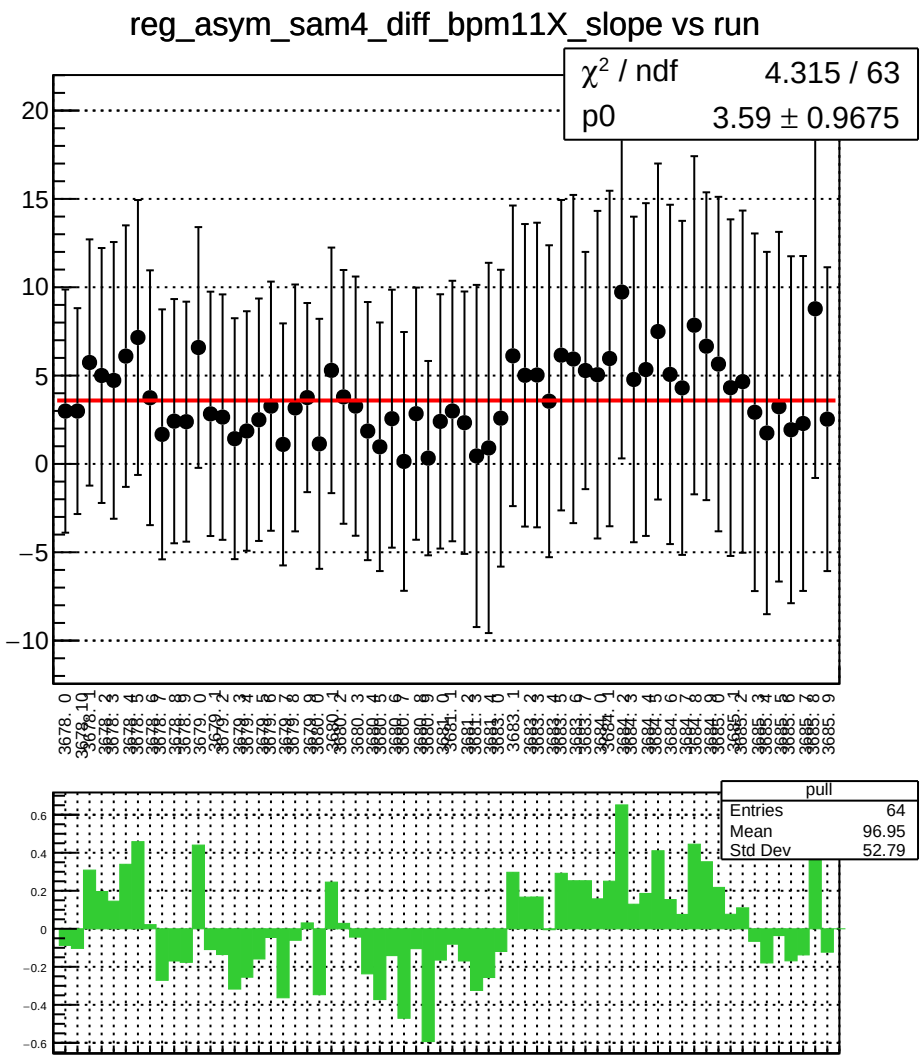

pull1D
Entries 64
Mean −0.002615
Std Dev 0.3272

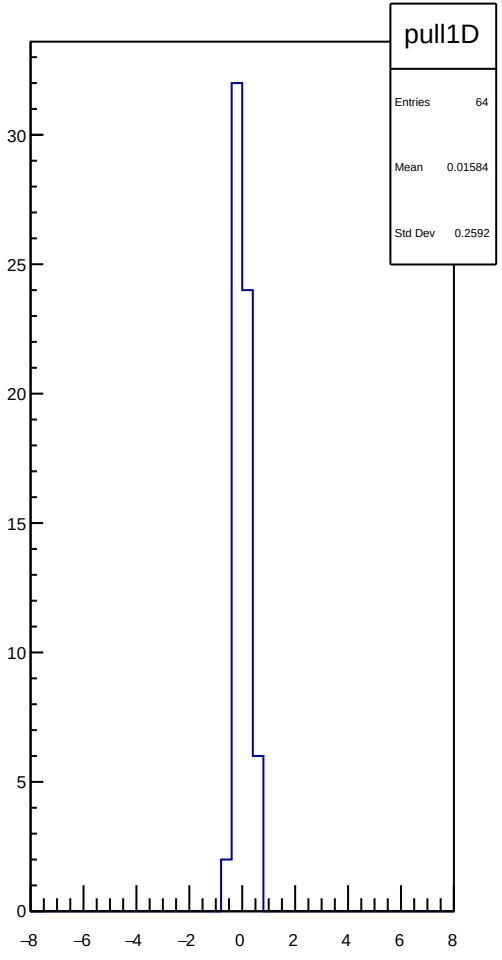

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 20.97 / 63
p0 −351.7 ± 0.9716
pull
Entries 64
Mean −485.3
Std Dev 524.7

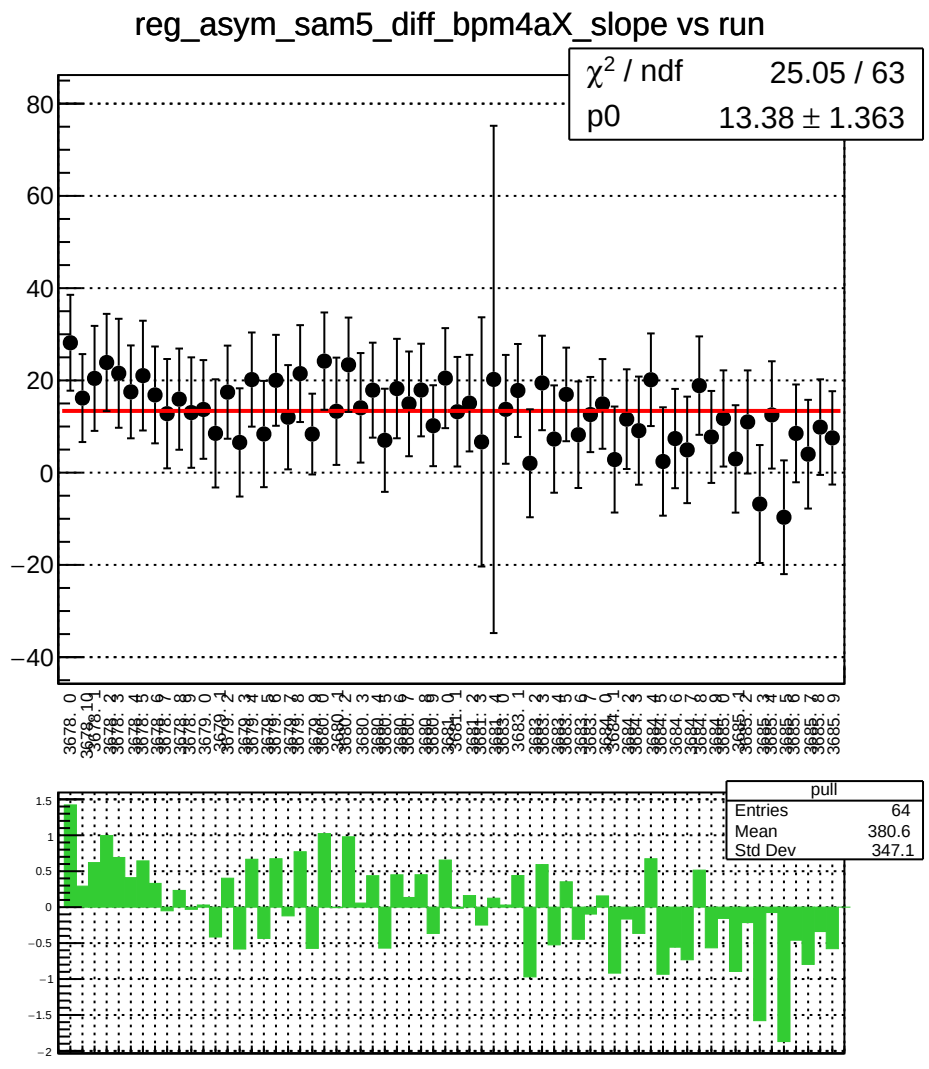

pull1D
Entries 64
Mean −0.008871
Std Dev 0.5724

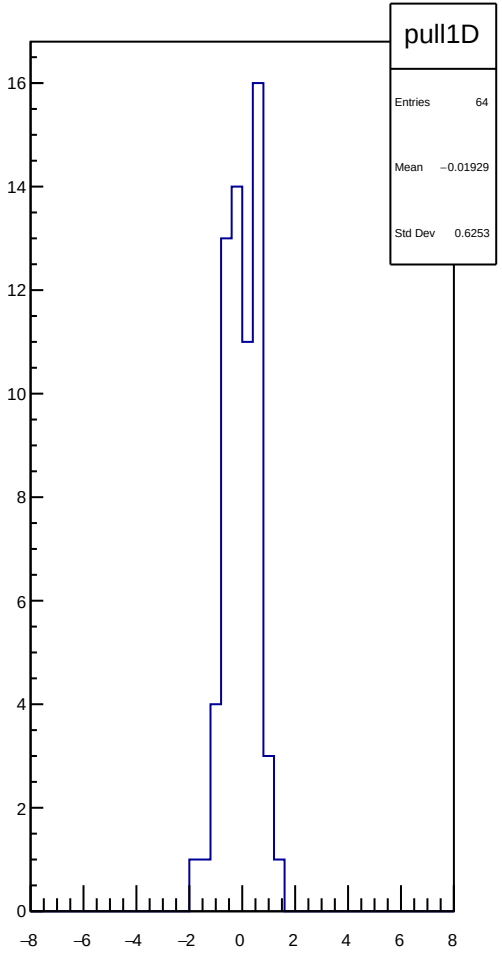

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 7.039 / 63
p0 110.1 ± 5.846
pull
Entries 64
Mean −5856
Std Dev 5886

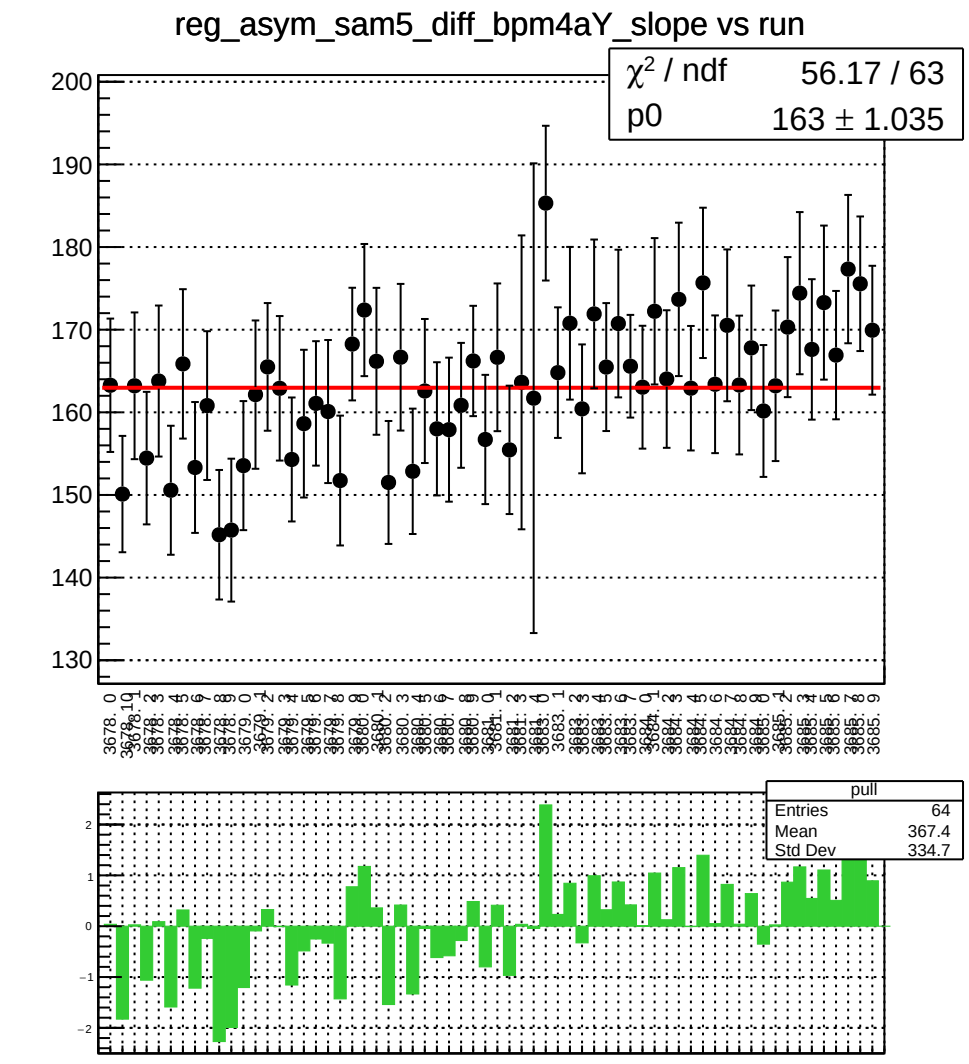

pull1D
Entries 64
Mean 0.0003069
Std Dev 0.3316

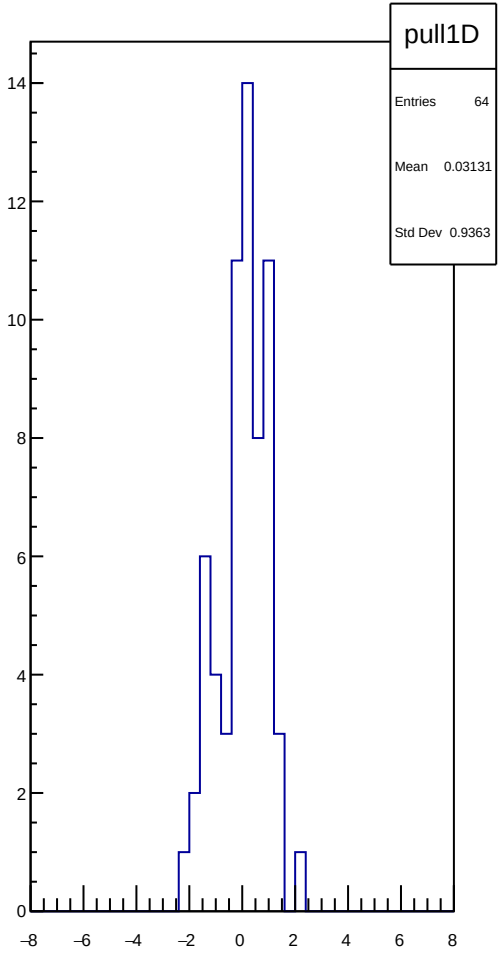

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 4.315 / 63
p0 3.59 ± 0.9675
pull
Entries 64
Mean 96.95
Std Dev 52.79

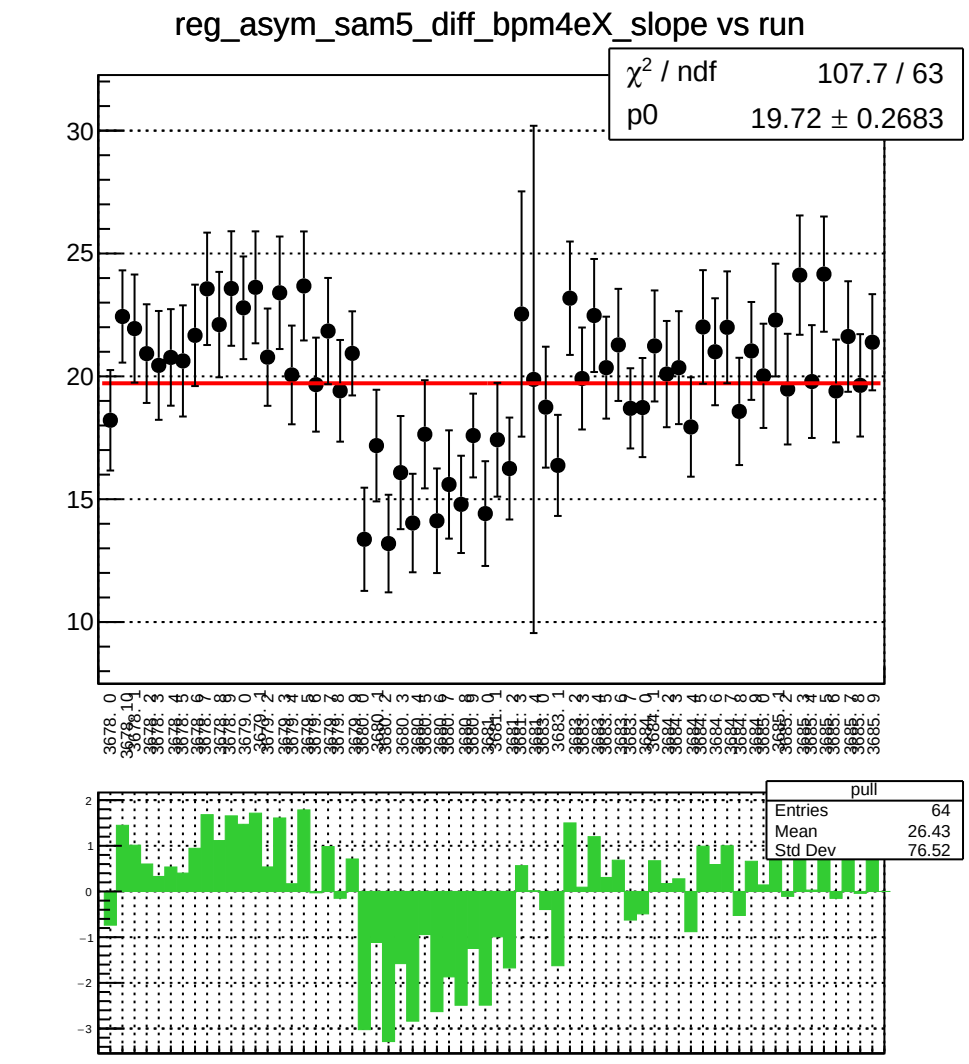

pull1D
Entries 64
Mean 0.01584
Std Dev 0.2592

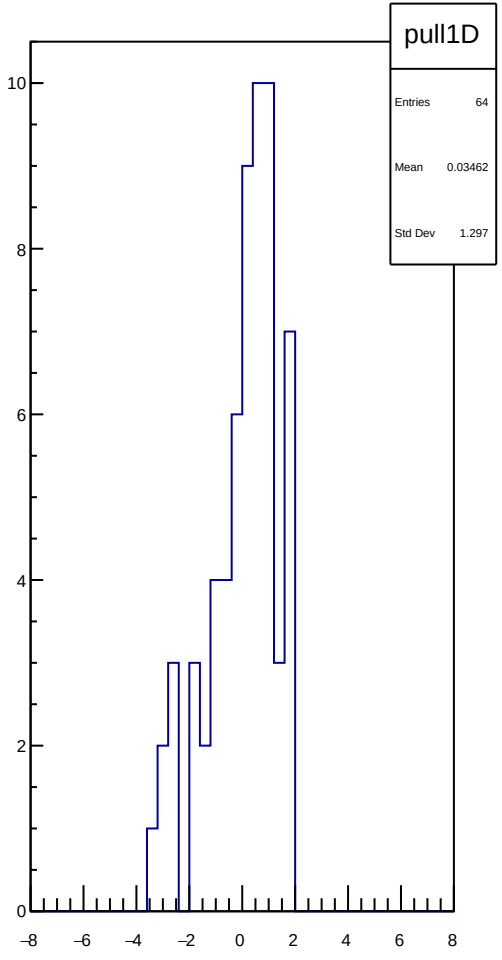

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 25.05 / 63
p0 13.38 ± 1.363
pull
Entries 64
Mean 380.6
Std Dev 347.1

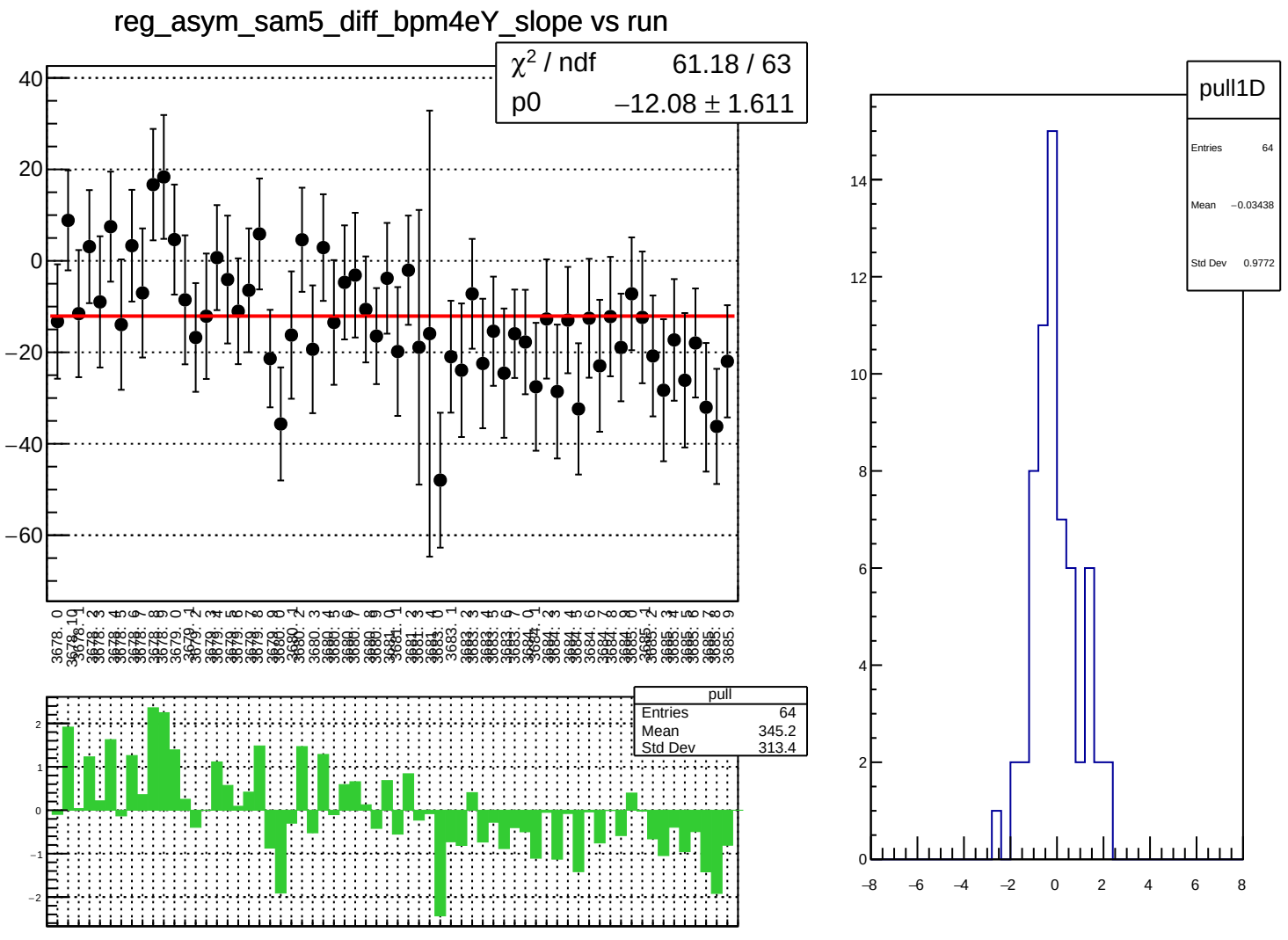

pull1D
Entries 64
Mean −0.01929
Std Dev 0.6253

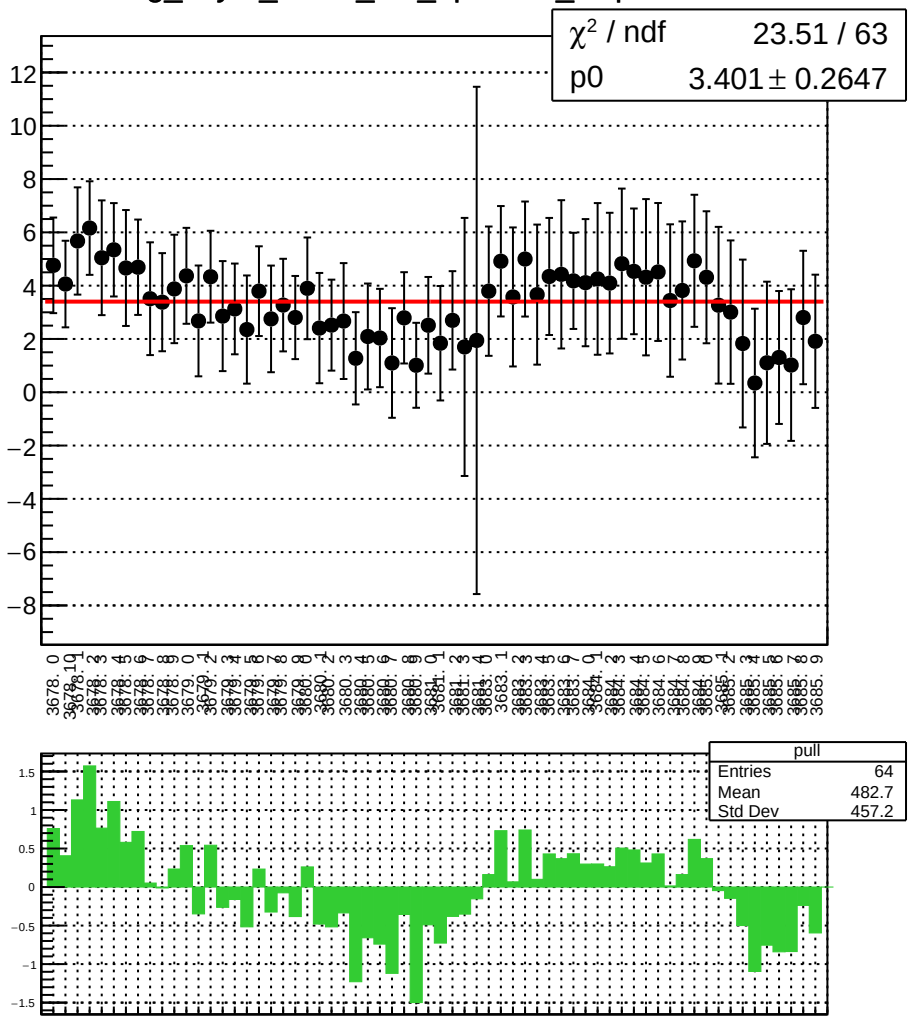

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 56.17 / 63
p0 163 ± 1.035
pull
Entries 64
Mean 367.4
Std Dev 334.7

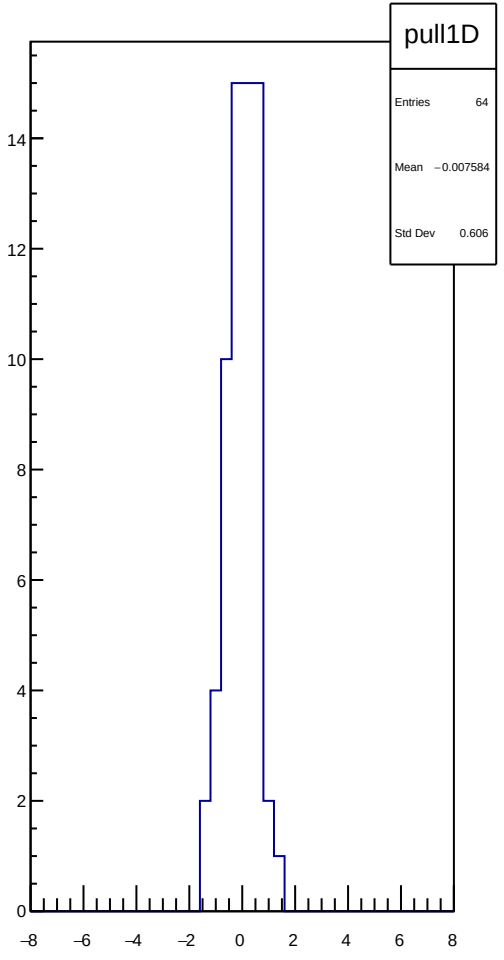

pull1D
Entries 64
Mean 0.03131
Std Dev 0.9363

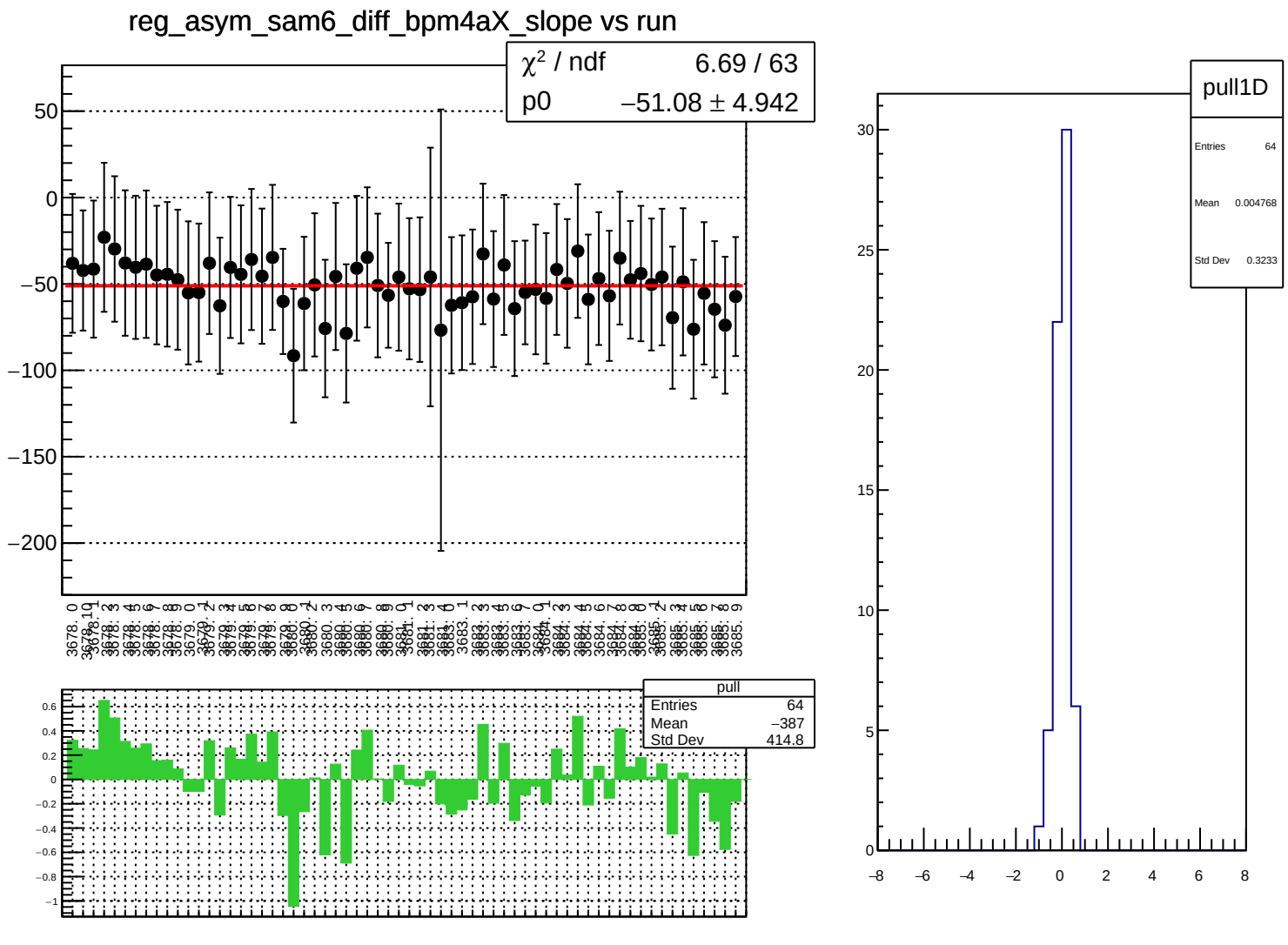

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 107.7 / 63
p0 19.72 ± 0.2683
pull
Entries 64
Mean 26.43
Std Dev 76.52

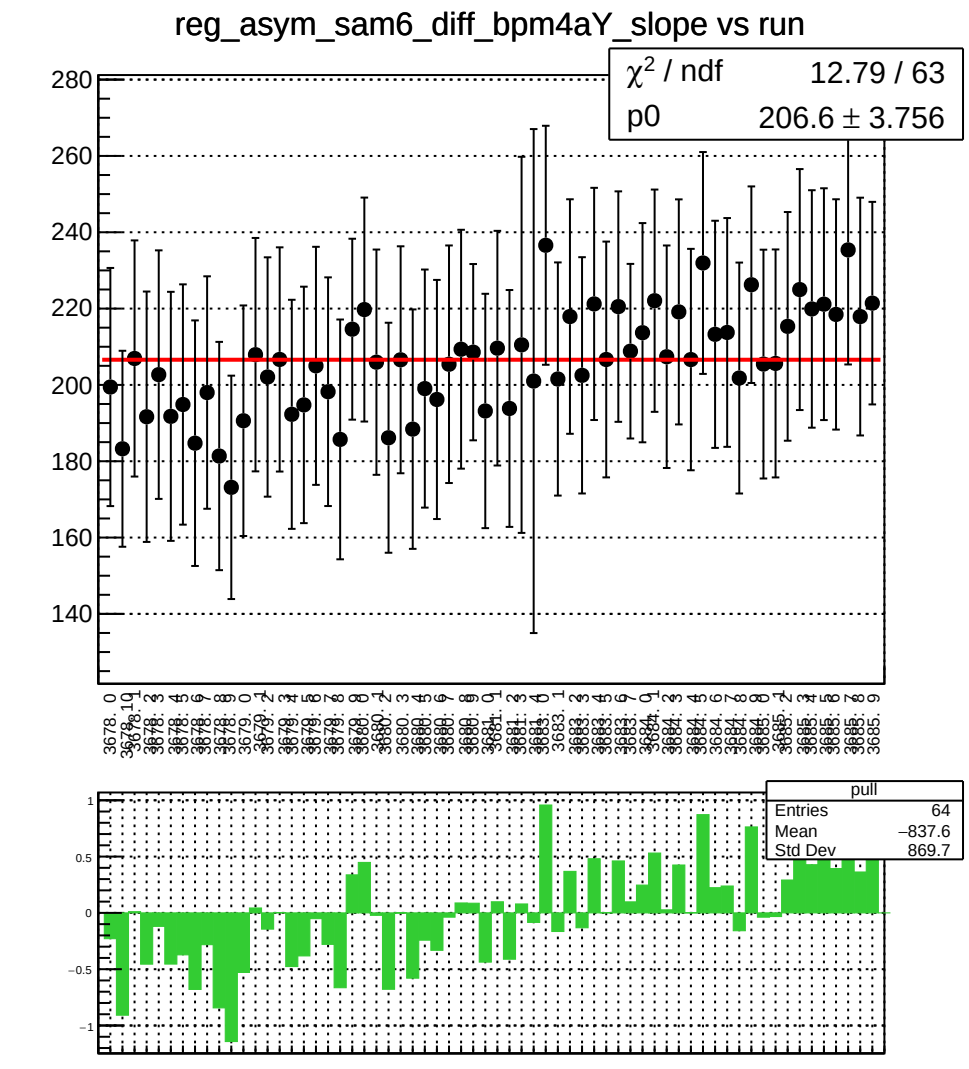

pull1D
Entries 64
Mean 0.03462
Std Dev 1.297

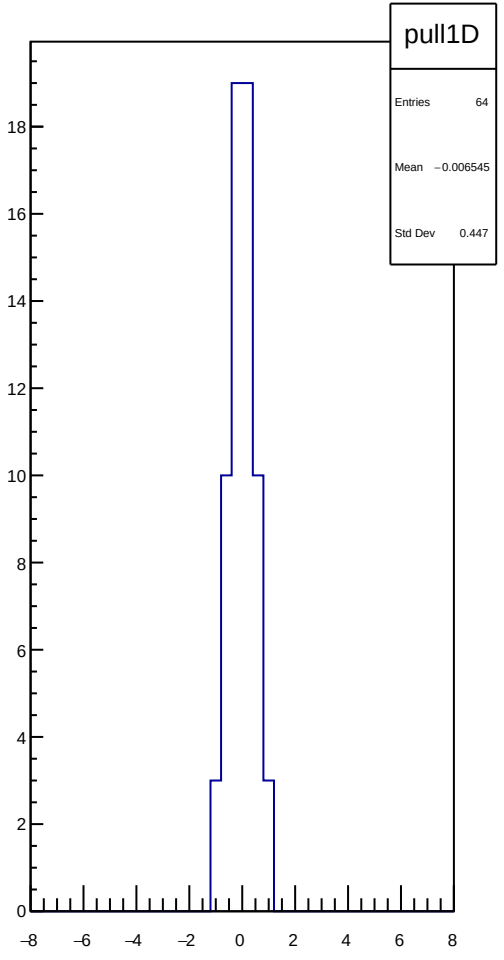

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 61.18 / 63
p0 −12.08 ± 1.611
pull
Entries 64
Mean 345.2
Std Dev 313.4
pull1D
Entries 64
Mean −0.03438
Std Dev 0.9772

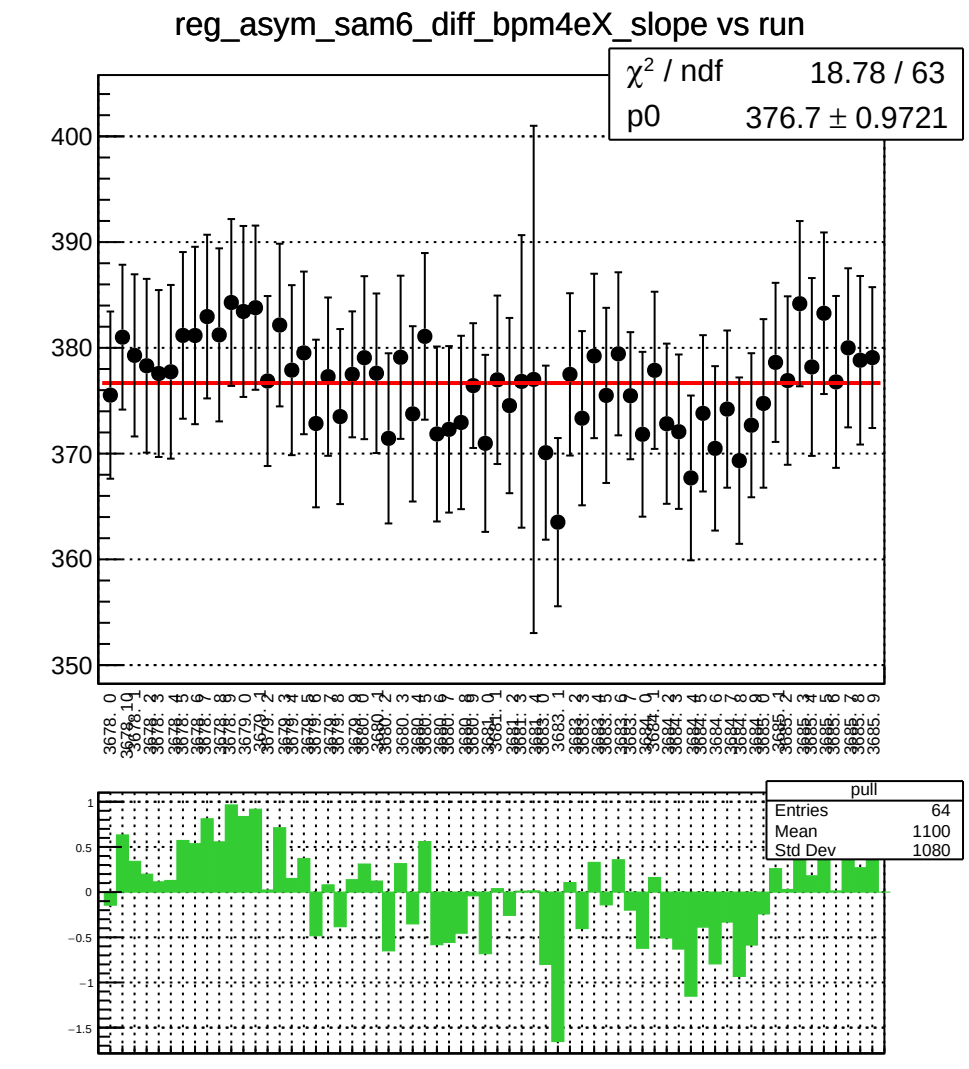

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 23.51 / 63
p0 3.401 ± 0.2647
pull
Entries 64
Mean 482.7
Std Dev 457.2

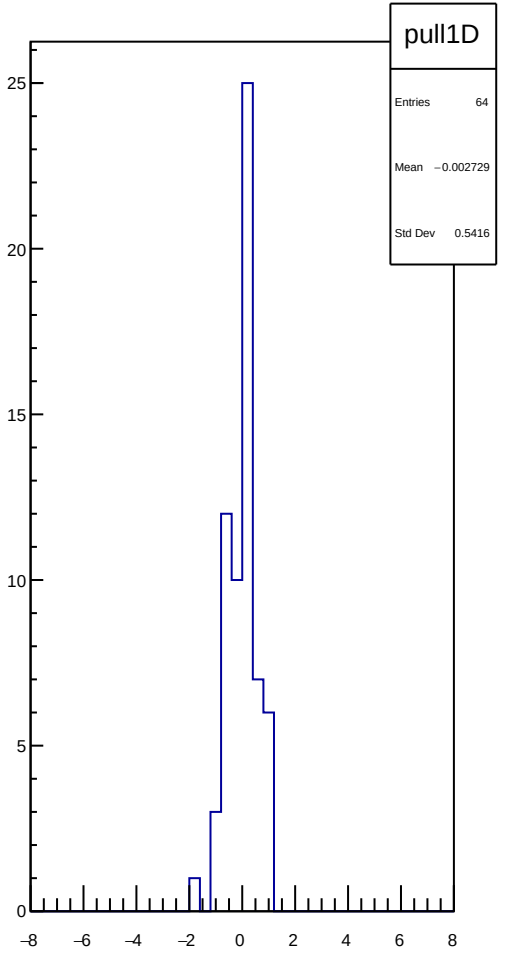

pull1D
Entries 64
Mean −0.007584
Std Dev 0.606

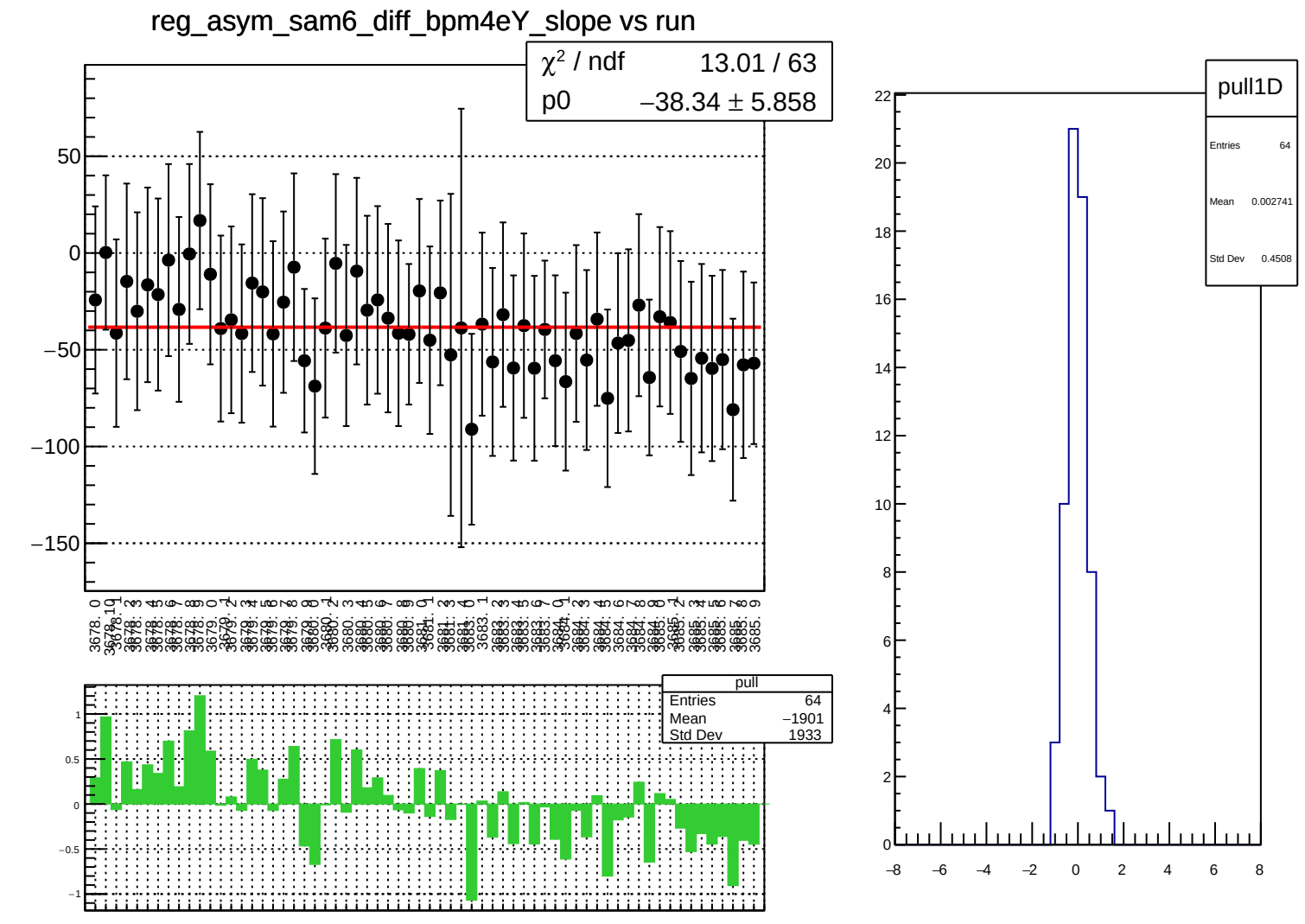

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 6.69 / 63
p0 −51.08 ± 4.942
pull
Entries 64
Mean −387
Std Dev 414.8
pull1D
Entries 64
Mean 0.004768
Std Dev 0.3233

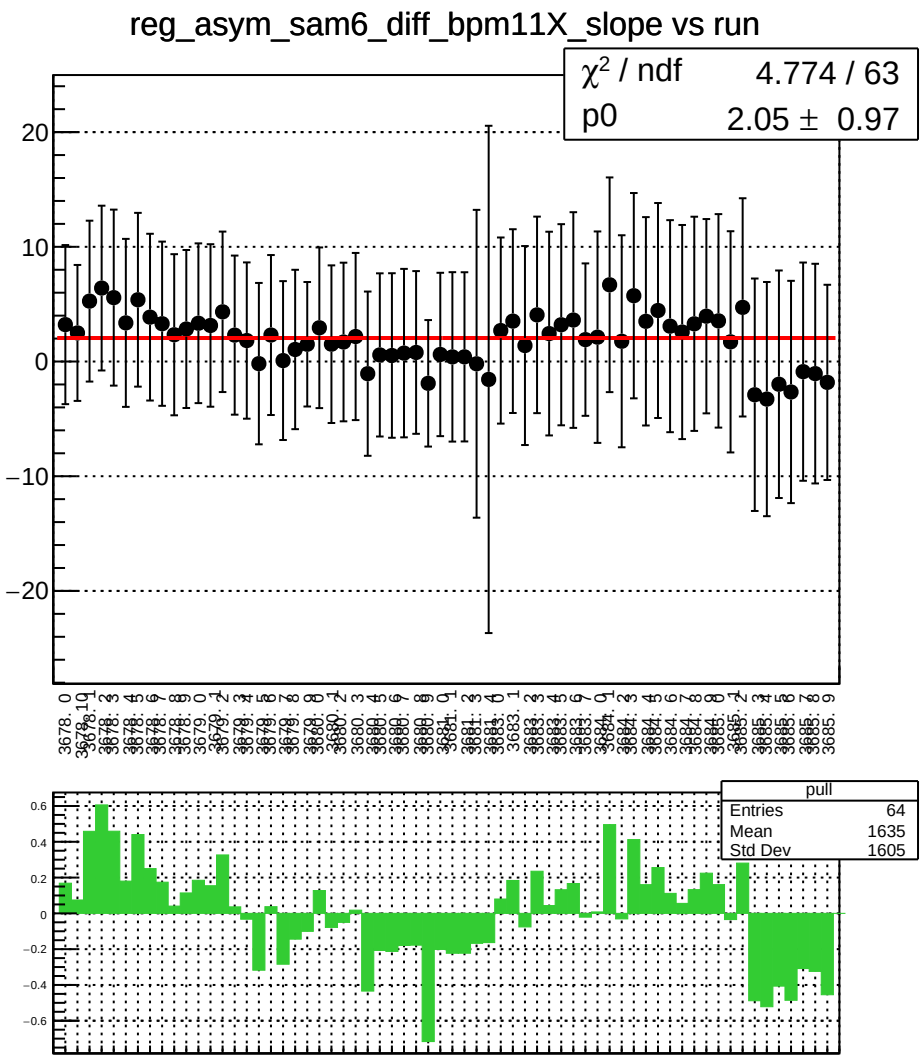

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 12.79 / 63
p0 206.6 ± 3.756
pull
Entries 64
Mean −837.6
Std Dev 869.7

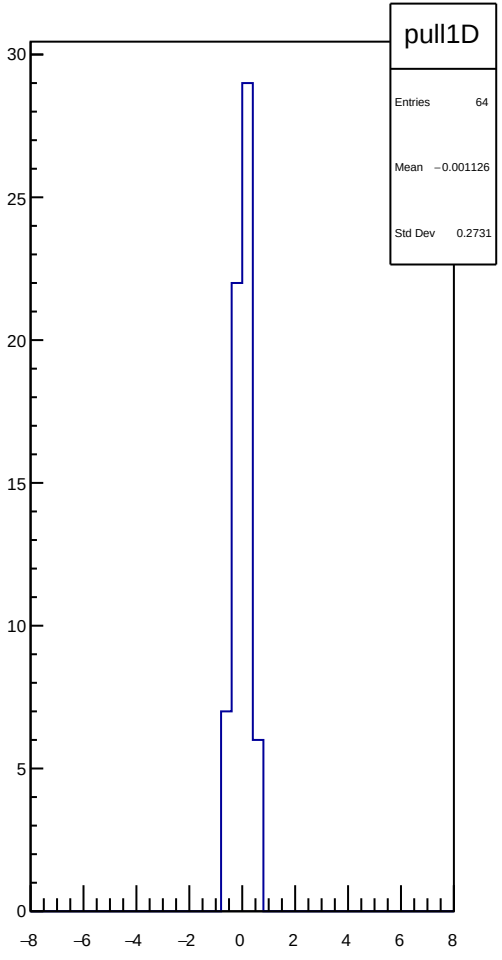

pull1D
Entries 64
Mean −0.006545
Std Dev 0.447

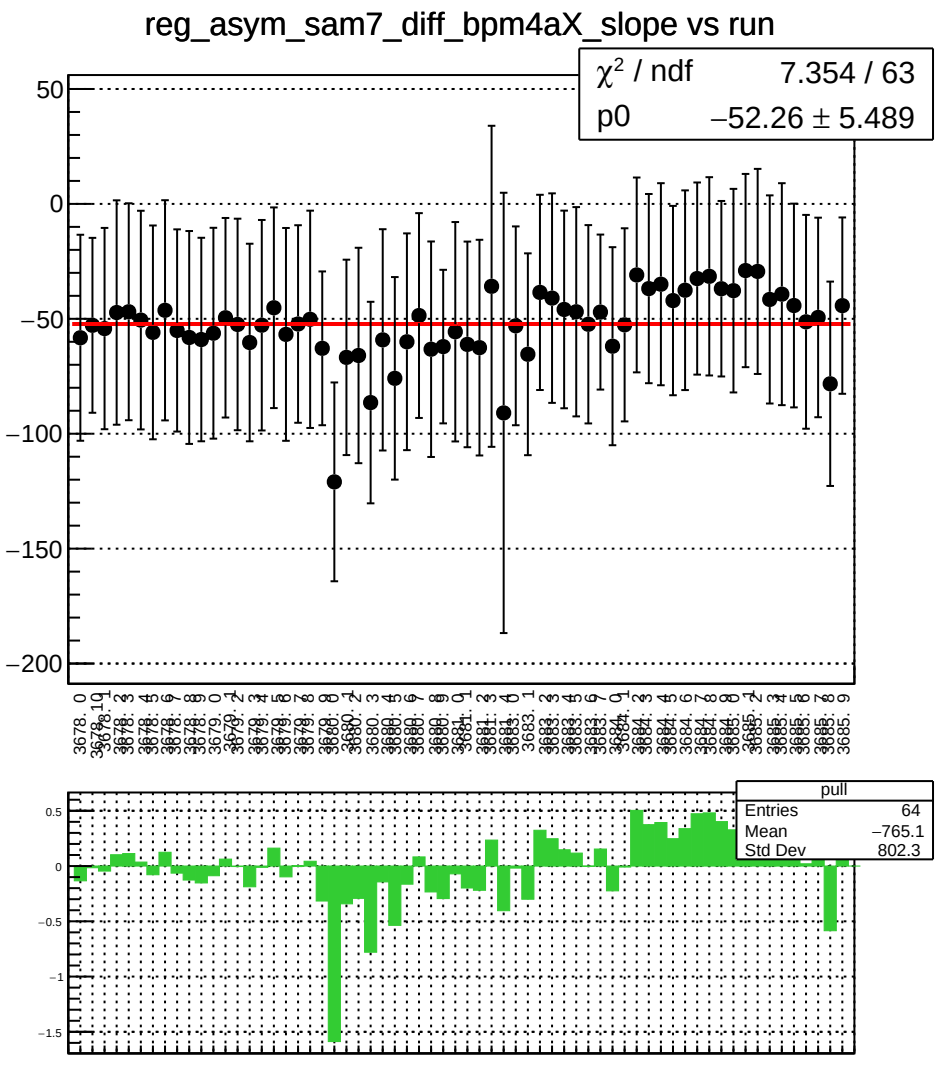

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 18.78 / 63
p0 376.7 ± 0.9721
400
390
380
370
360
350
pull
Entries 64
Mean 1100
Std Dev 1080
1
0.5
0
−0.5
−1
−1.5

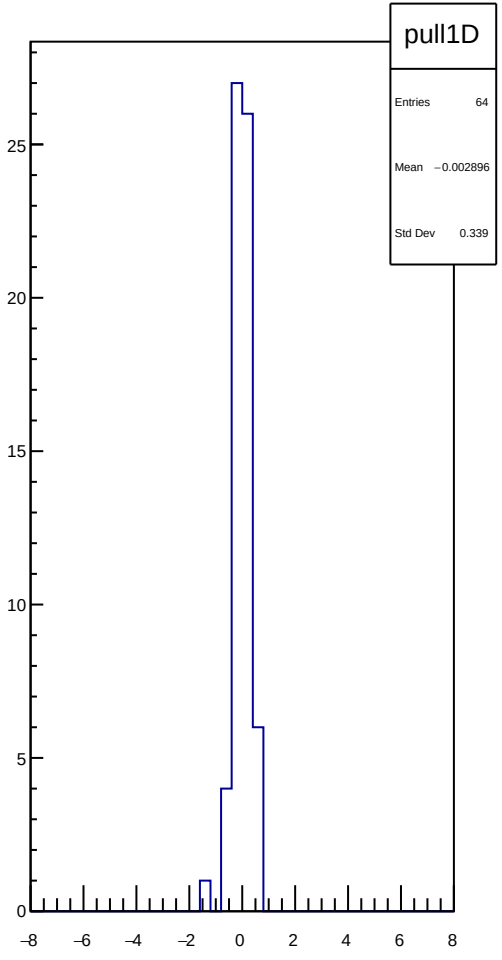

pull1D
Entries 64
Mean −0.002729
Std Dev 0.5416
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

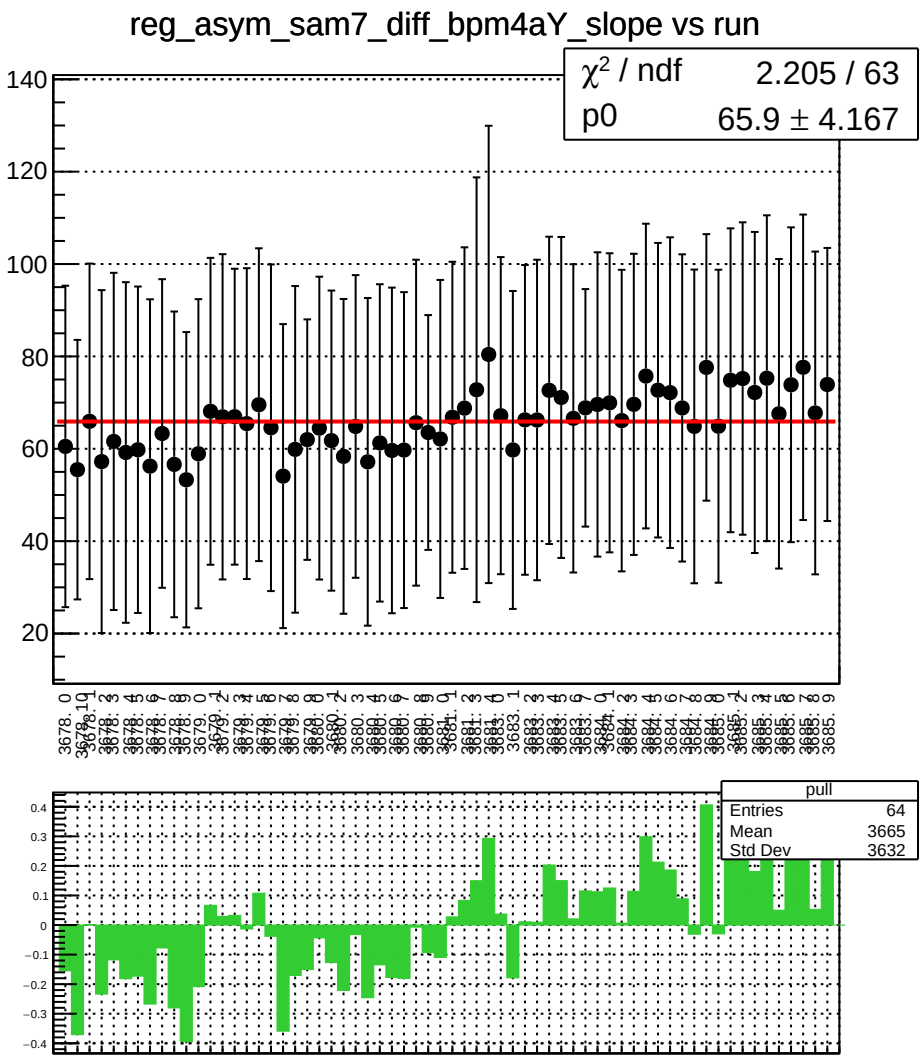

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 13.01 / 63
p0 −38.34 ± 5.858
50
0
−50
−100
−150
pull
Entries 64
Mean −1901
Std Dev 1933
1
0.5
0
−0.5
−1
pull1D
Entries 64
Mean 0.002741
Std Dev 0.4508
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

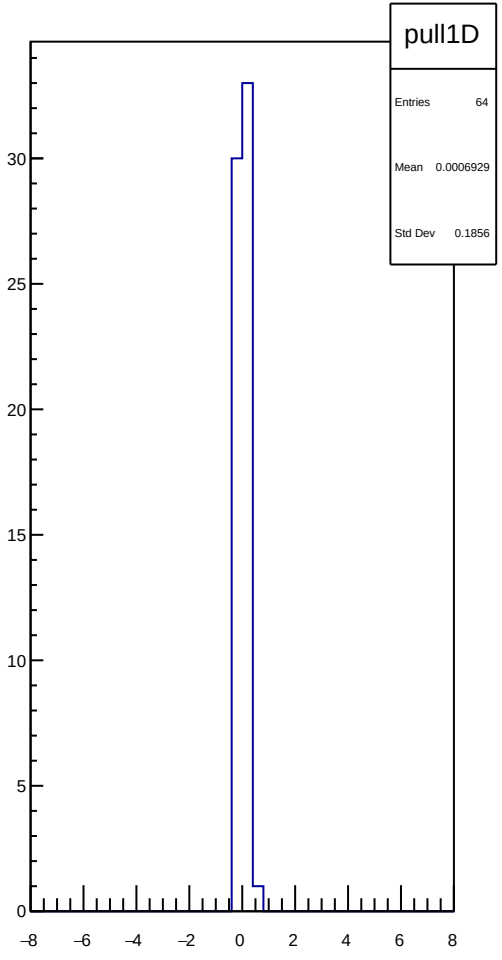

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 4.774 / 63
p0 2.05 ± 0.97
pull
Entries 64
Mean 1635
Std Dev 1605

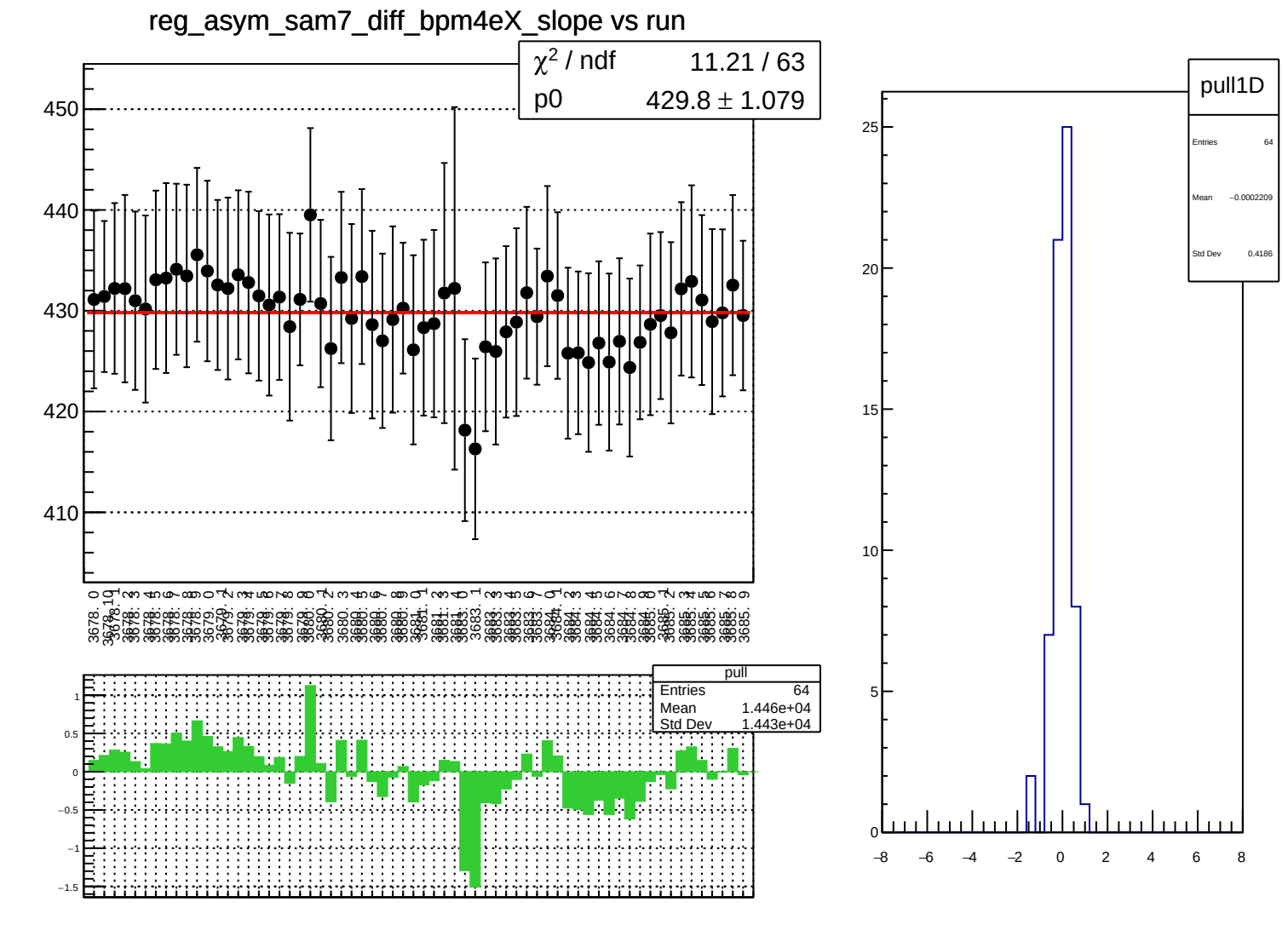

pull1D
Entries 64
Mean −0.001126
Std Dev 0.2731

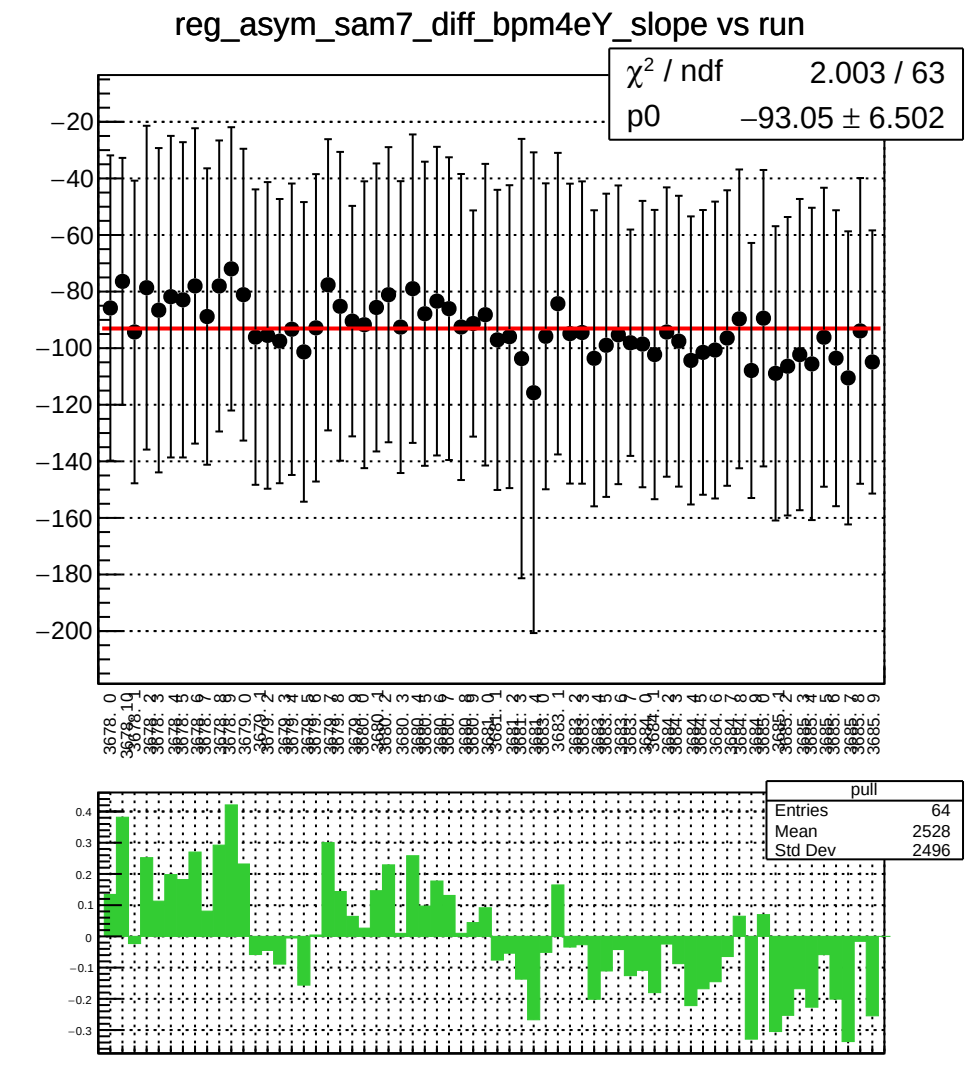

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 7.354 / 63
p0 −52.26 ± 5.489
pull
Entries 64
Mean −765.1
Std Dev 802.3

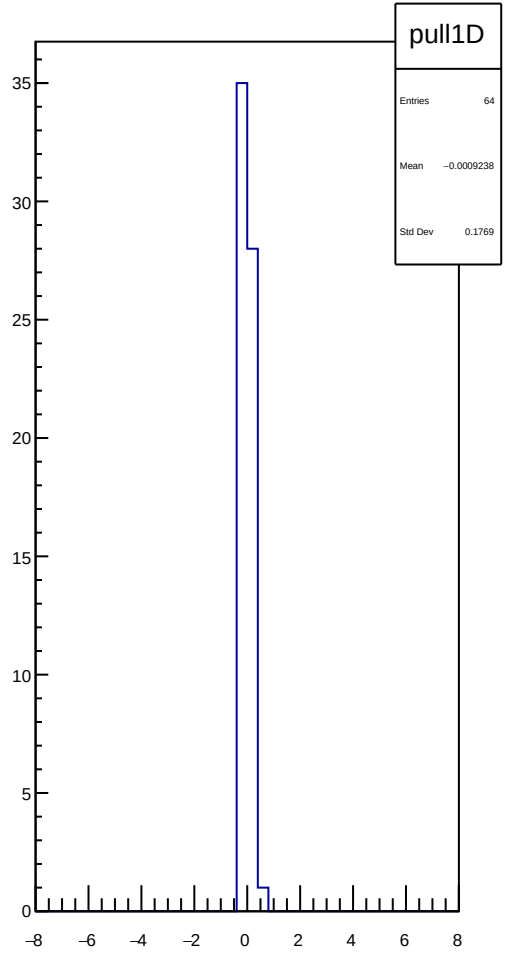

pull1D
Entries 64
Mean −0.002896
Std Dev 0.339

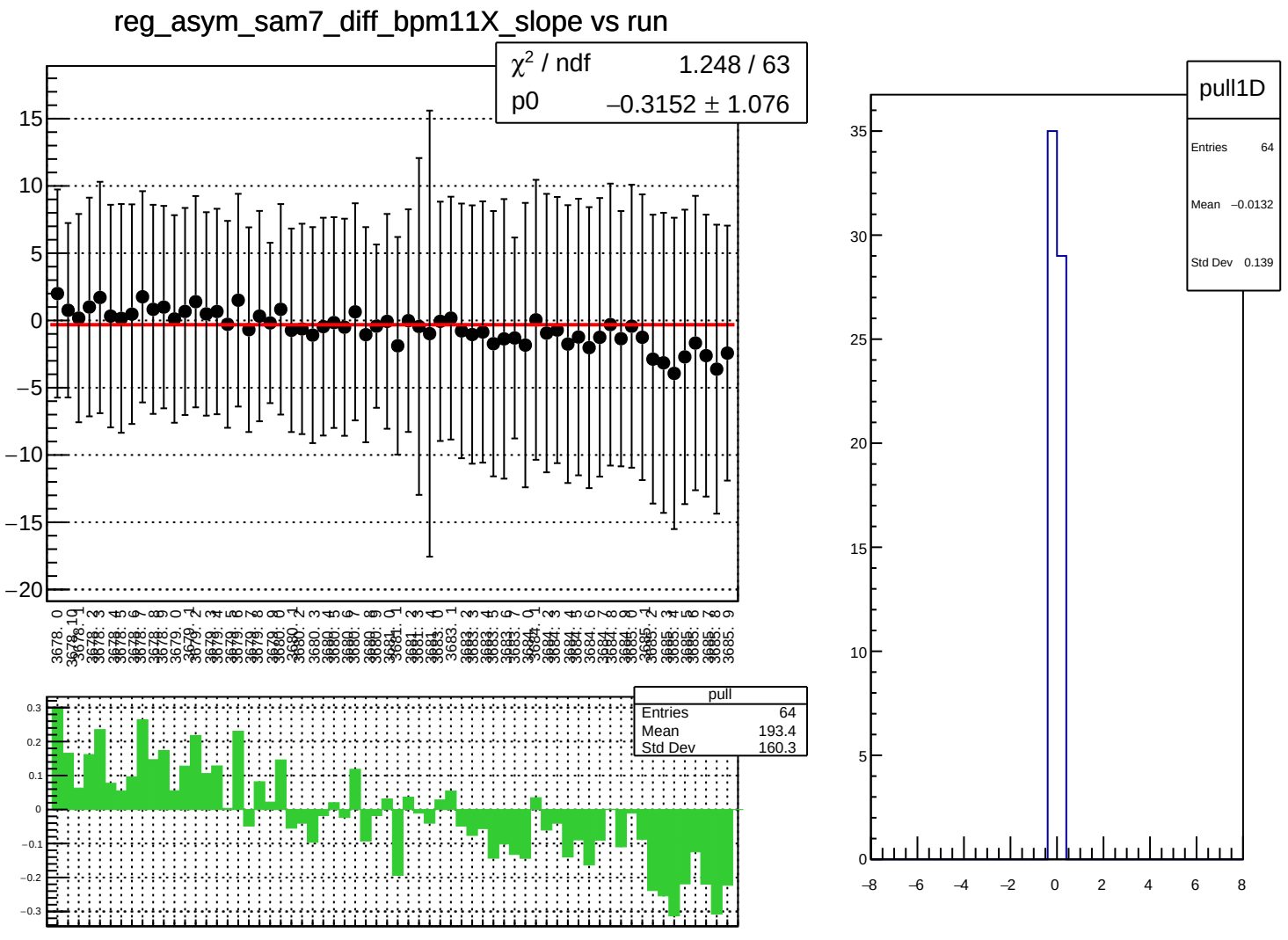

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 2.205 / 63
p0 65.9 ± 4.167
pull
Entries 64
Mean 3665
Std Dev 3632

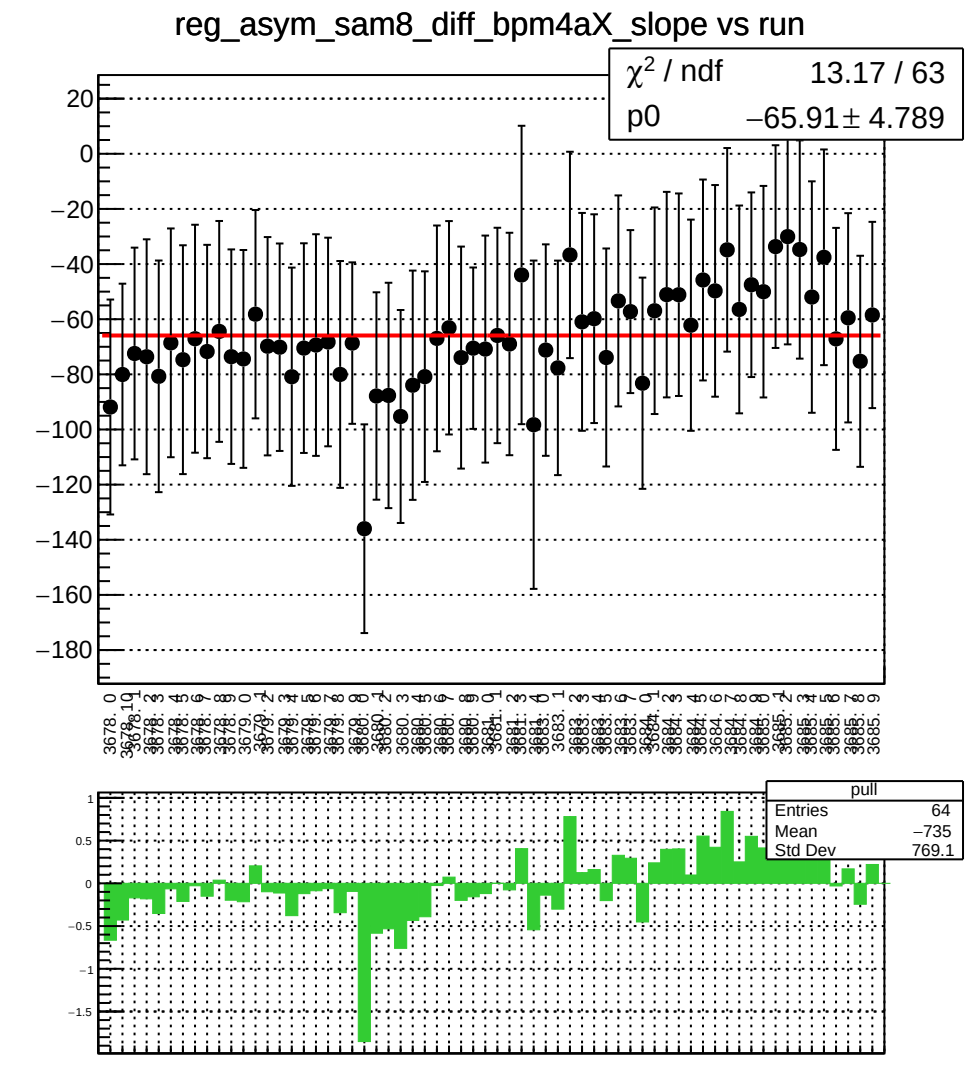

pull1D
Entries 64
Mean 0.0006929
Std Dev 0.1856

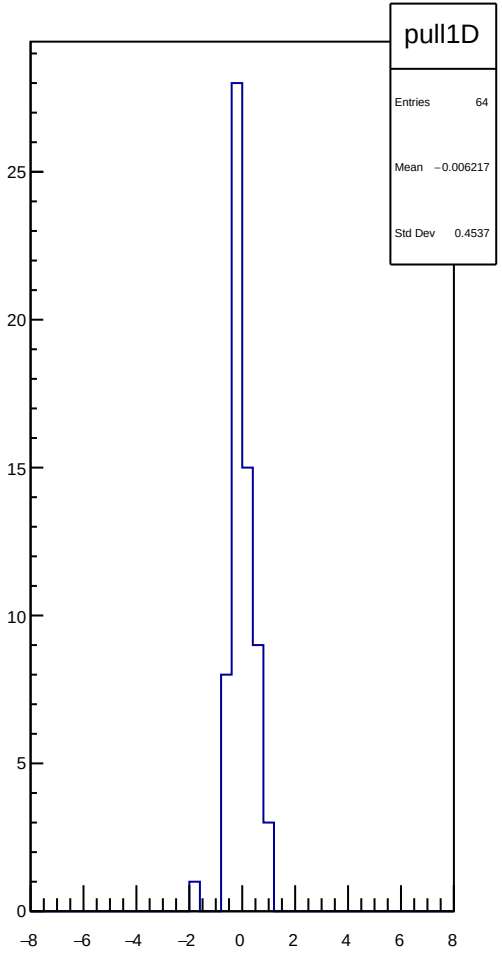

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 11.21 / 63
p0 429.8 ± 1.079
pull
Entries 64
Mean 1.446e+04
Std Dev 1.443e+04
pull1D
Entries 64
Mean −0.0002209
Std Dev 0.4186

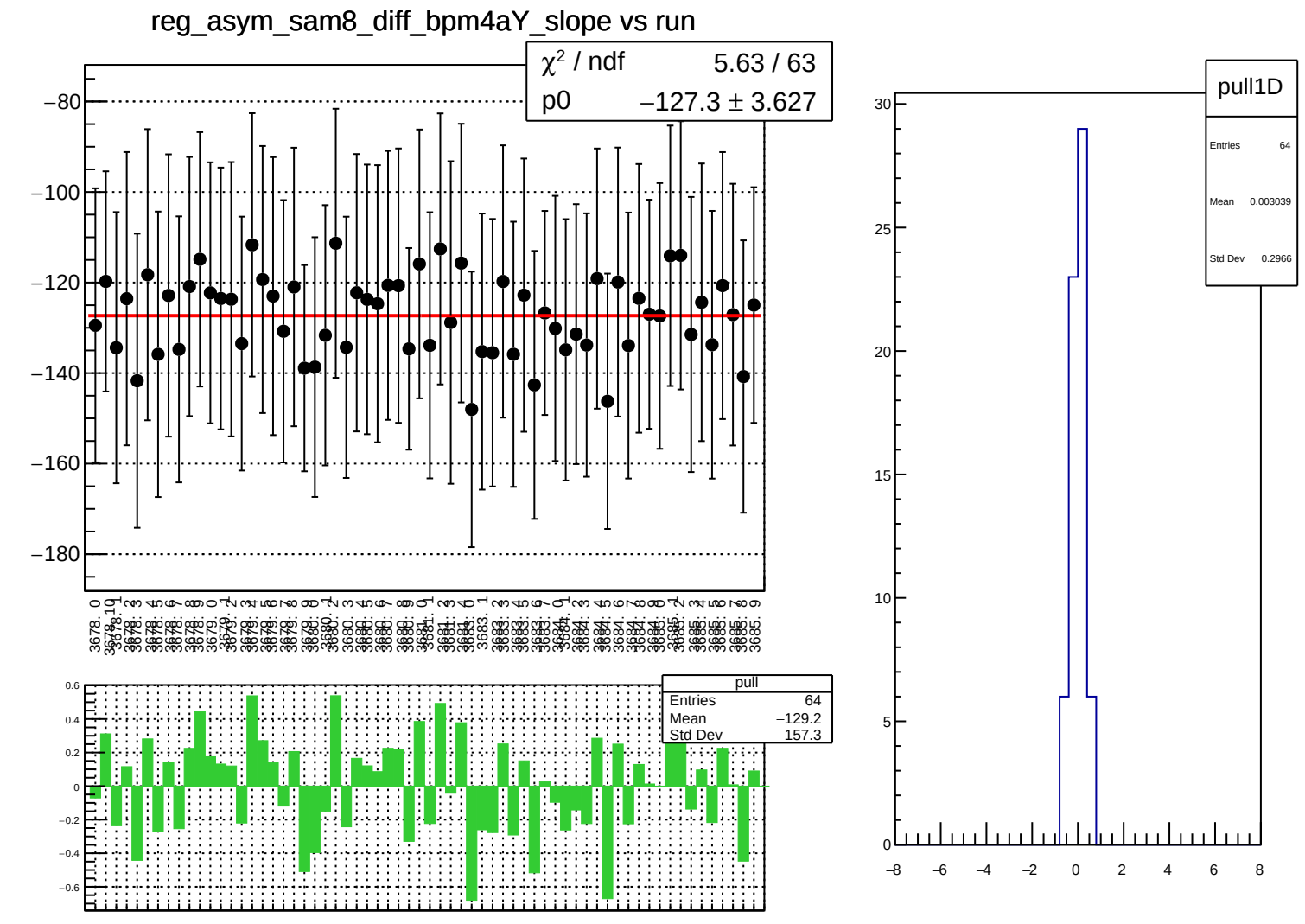

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 2.003 / 63
p0 −93.05 ± 6.502
pull
Entries 64
Mean 2528
Std Dev 2496

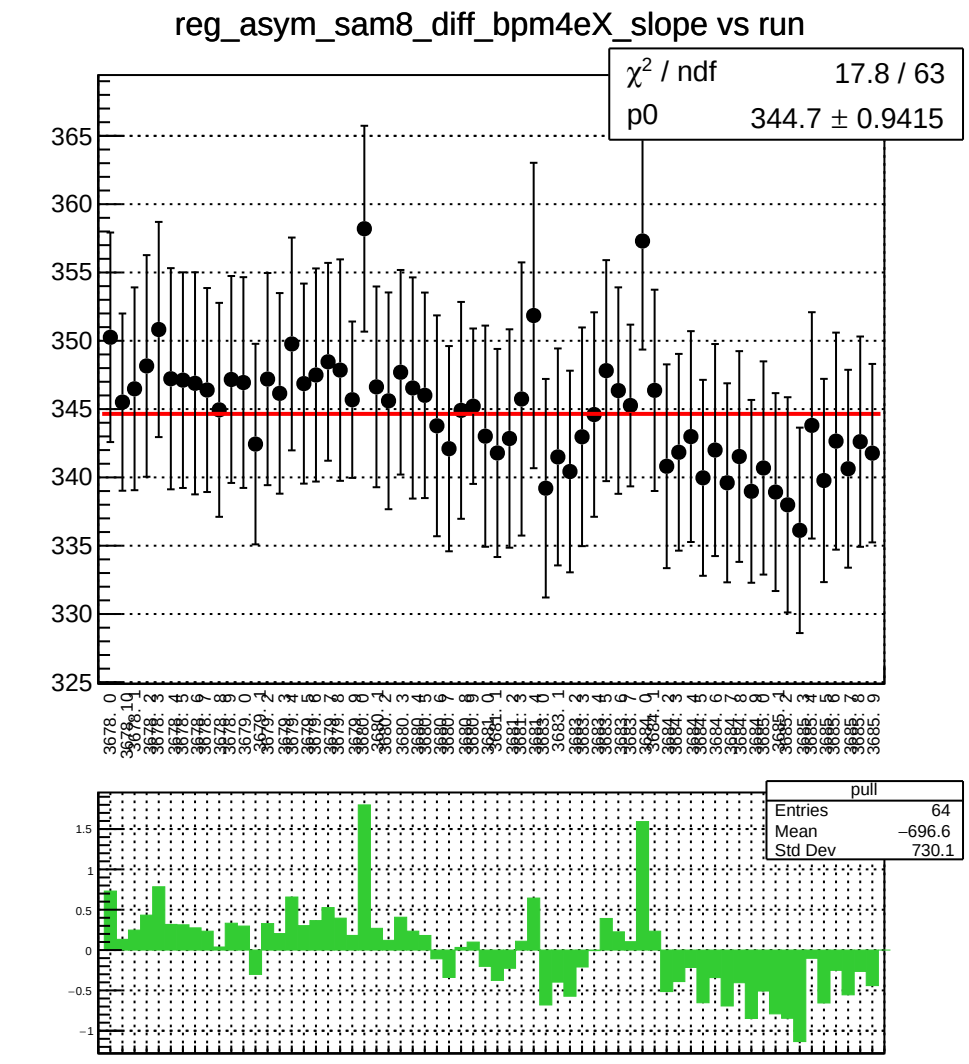

pull1D
Entries 64
Mean −0.0009238
Std Dev 0.1769

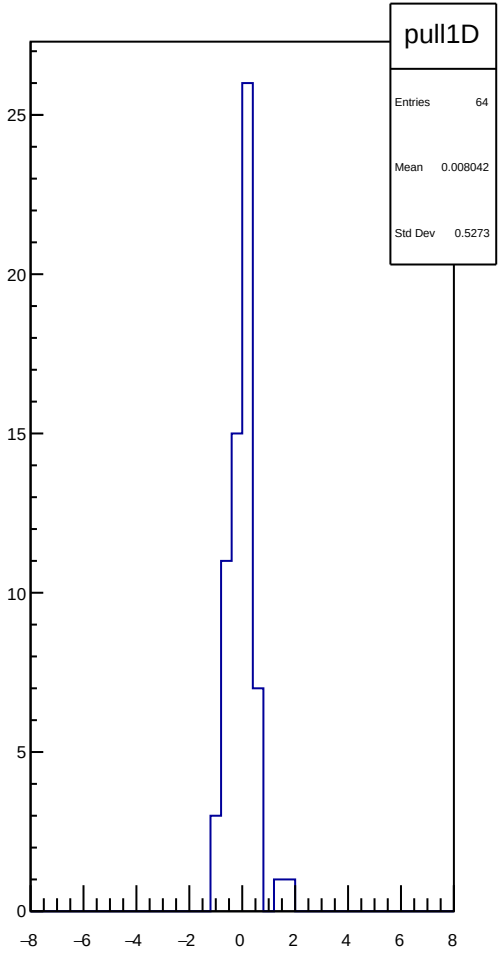

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 1.248 / 63
p0 −0.3152 ± 1.076
pull
Entries 64
Mean 193.4
Std Dev 160.3
pull1D
Entries 64
Mean −0.0132
Std Dev 0.139

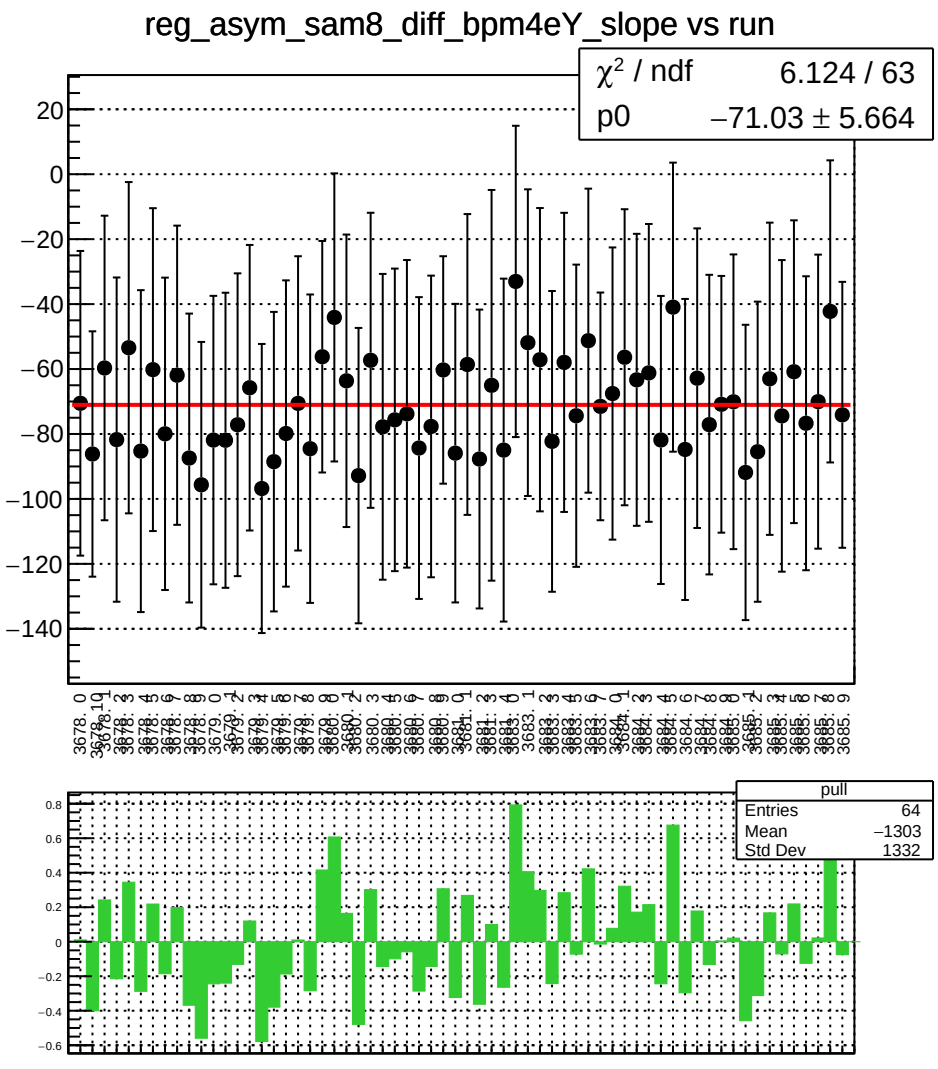

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 13.17 / 63
p0 −65.91 ± 4.789
pull
Entries 64
Mean −735
Std Dev 769.1

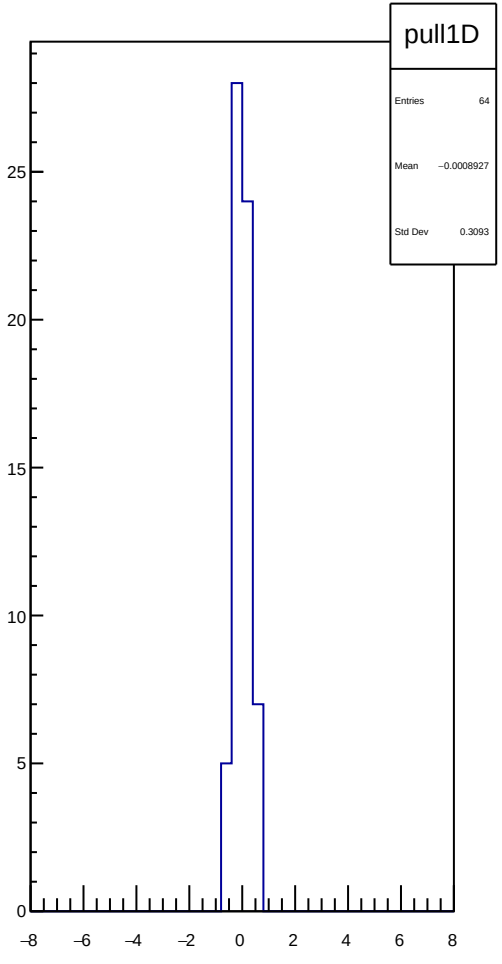

pull1D
Entries 64
Mean −0.006217
Std Dev 0.4537

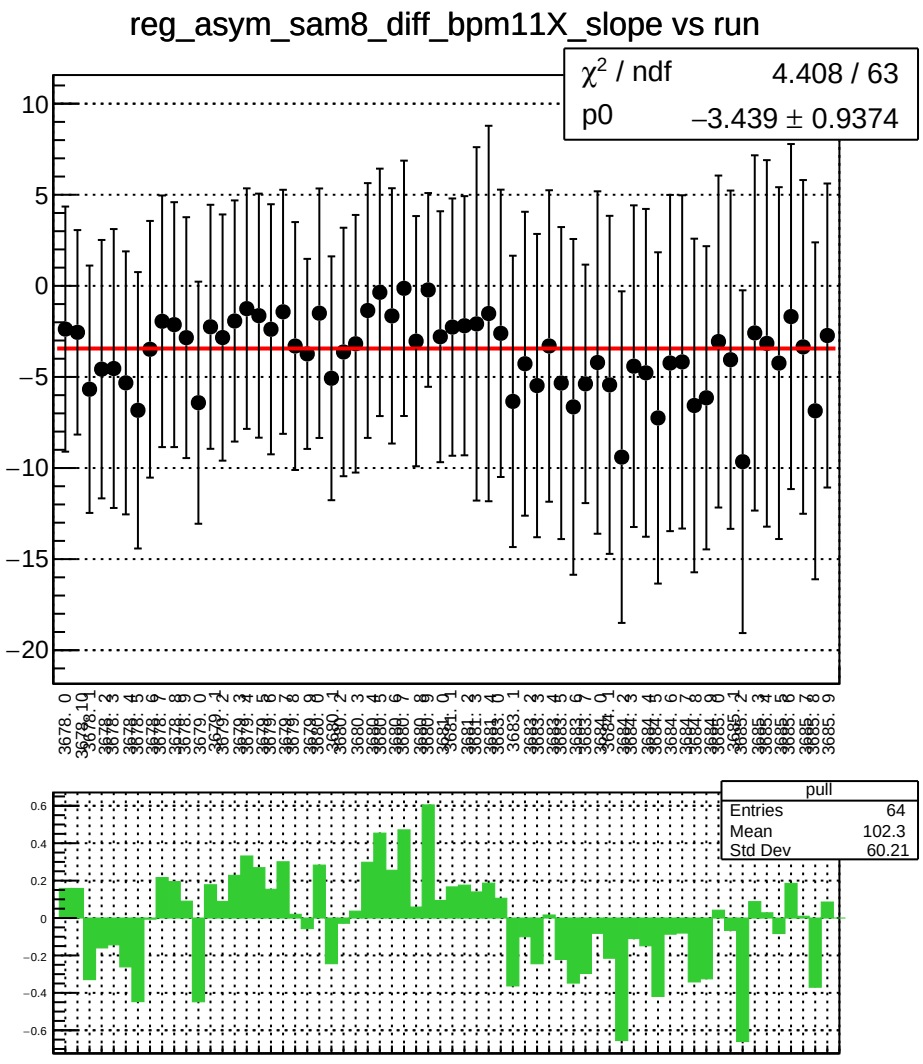

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 5.63 / 63
p0 −127.3 ± 3.627
pull
Entries 64
Mean −129.2
Std Dev 157.3
pull1D
Entries 64
Mean 0.003039
Std Dev 0.2966

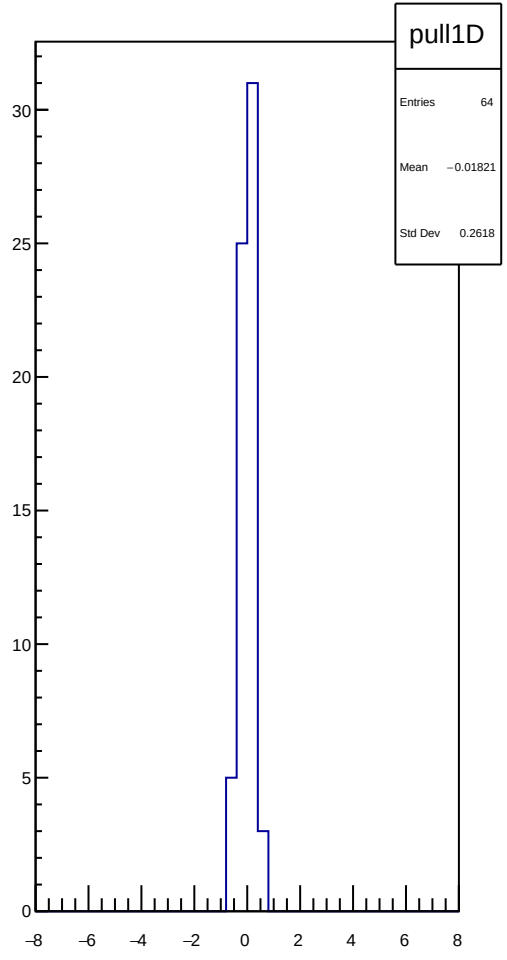

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 17.8 / 63
p0 344.7 ± 0.9415
pull
Entries 64
Mean −696.6
Std Dev 730.1

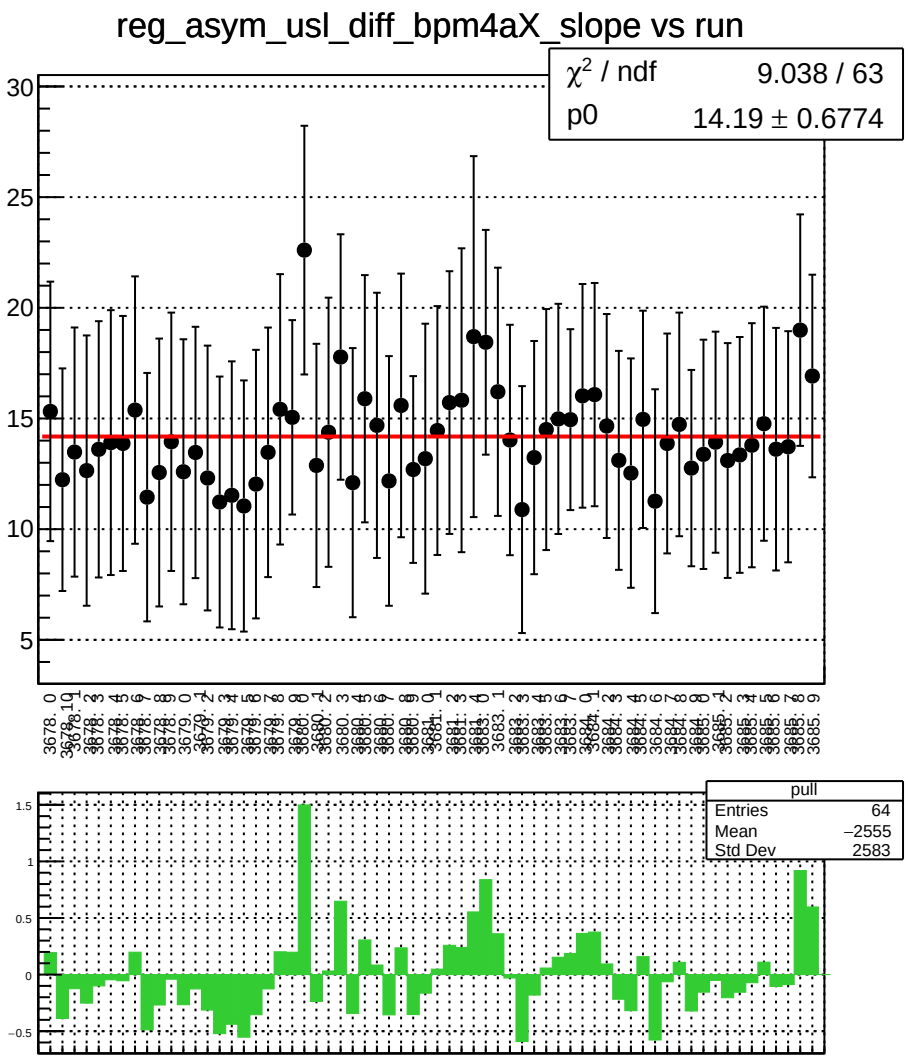

pull1D
Entries 64
Mean 0.008042
Std Dev 0.5273

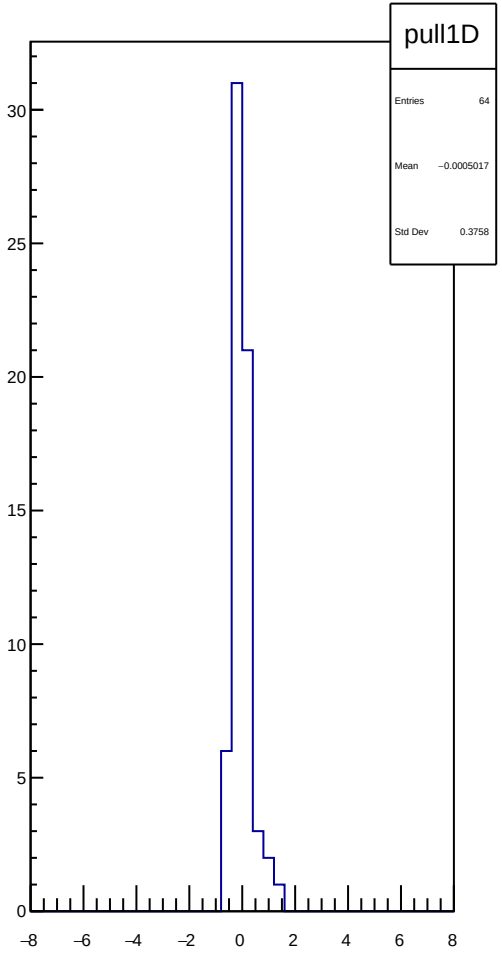

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 6.124 / 63
p0 −71.03 ± 5.664
pull
Entries 64
Mean −1303
Std Dev 1332

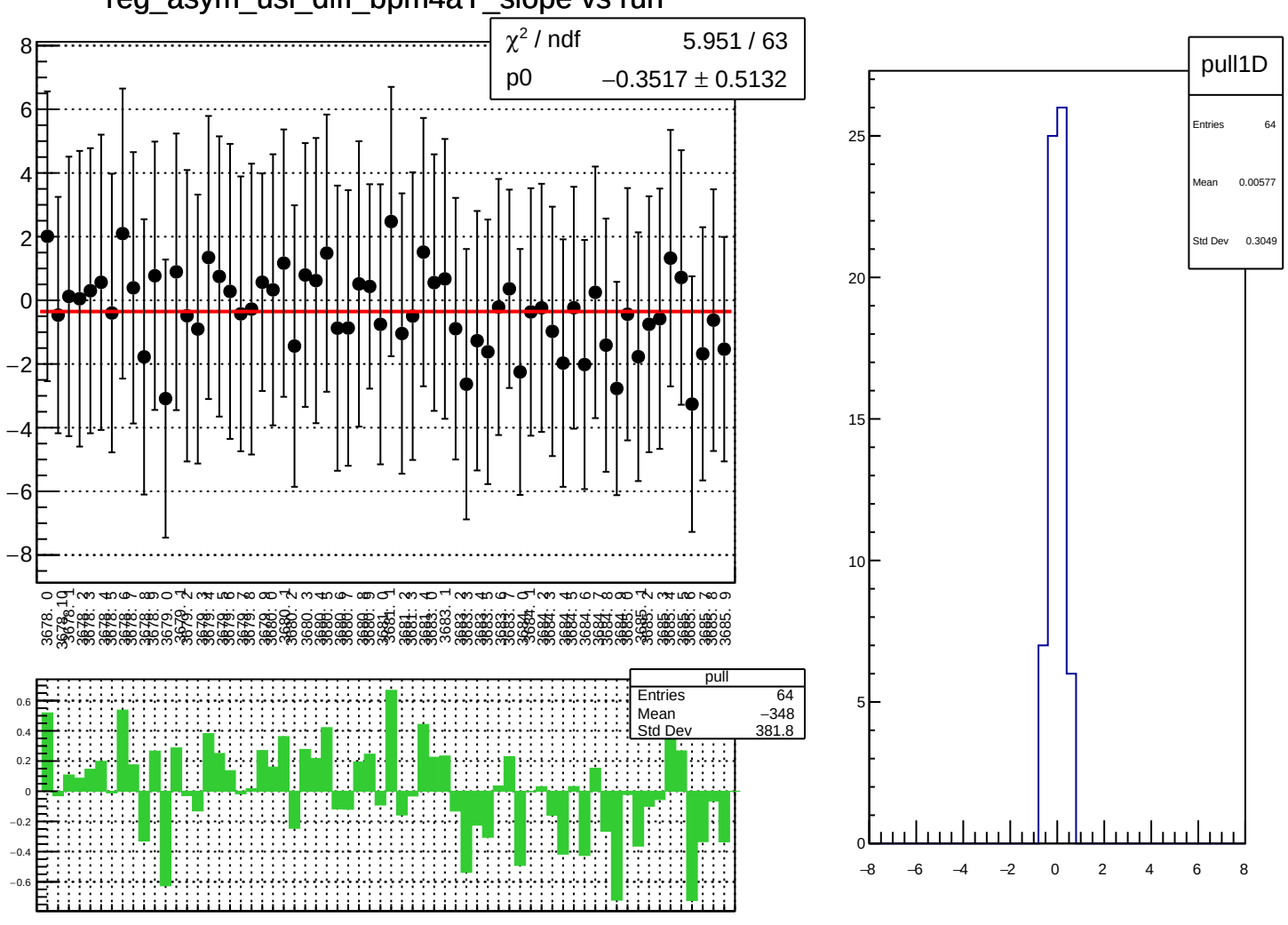

pull1D
Entries 64
Mean −0.0008927
Std Dev 0.3093

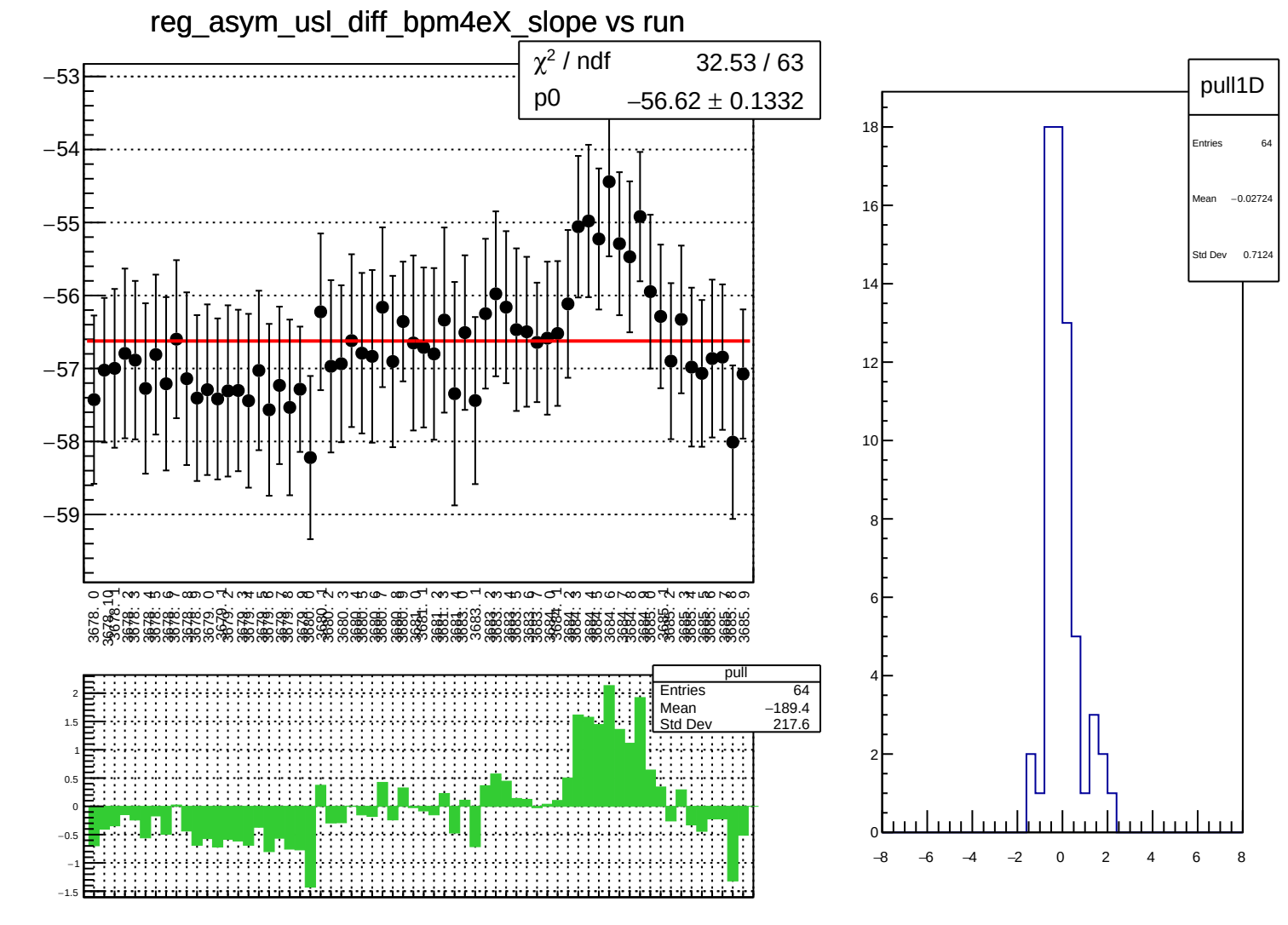

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 4.408 / 63
p0 −3.439 ± 0.9374
pull
Entries 64
Mean 102.3
Std Dev 60.21

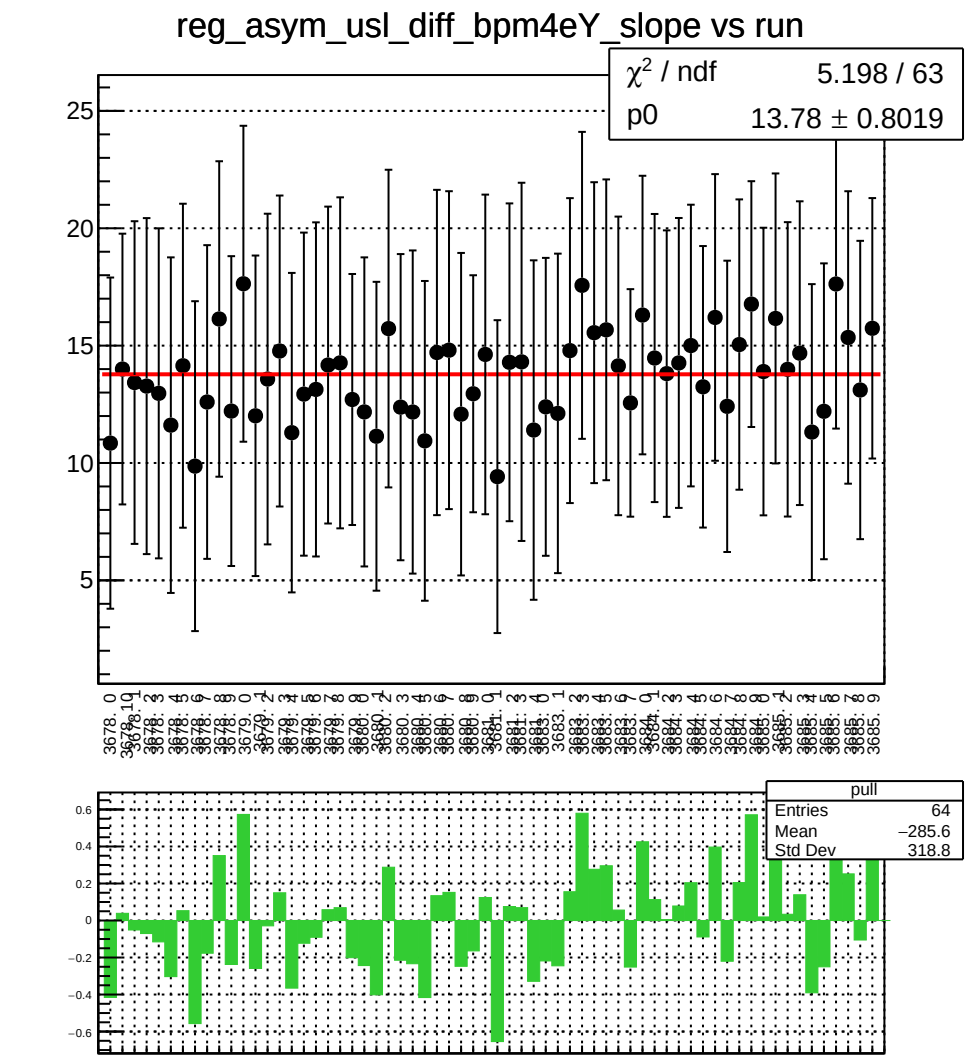

pull1D
Entries 64
Mean −0.01821
Std Dev 0.2618

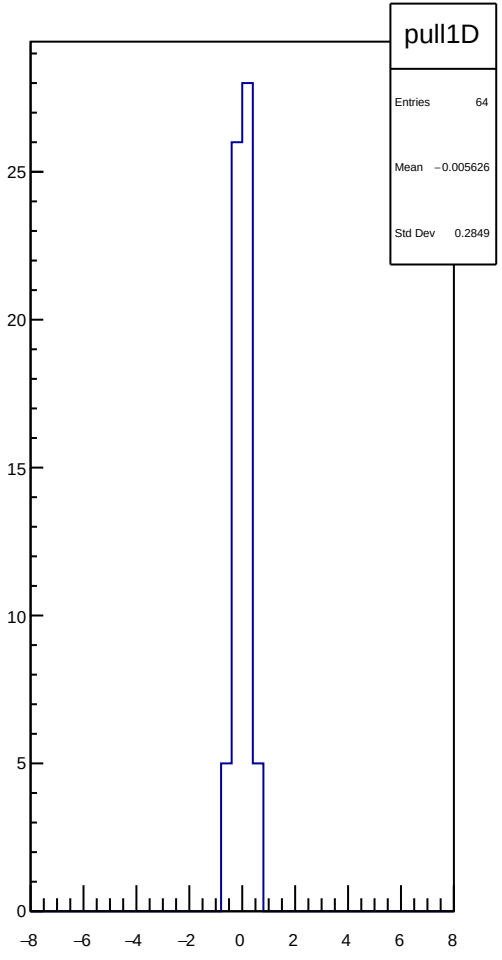

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 9.038 / 63
p0 14.19 ± 0.6774
pull
Entries 64
Mean −2555
Std Dev 2583

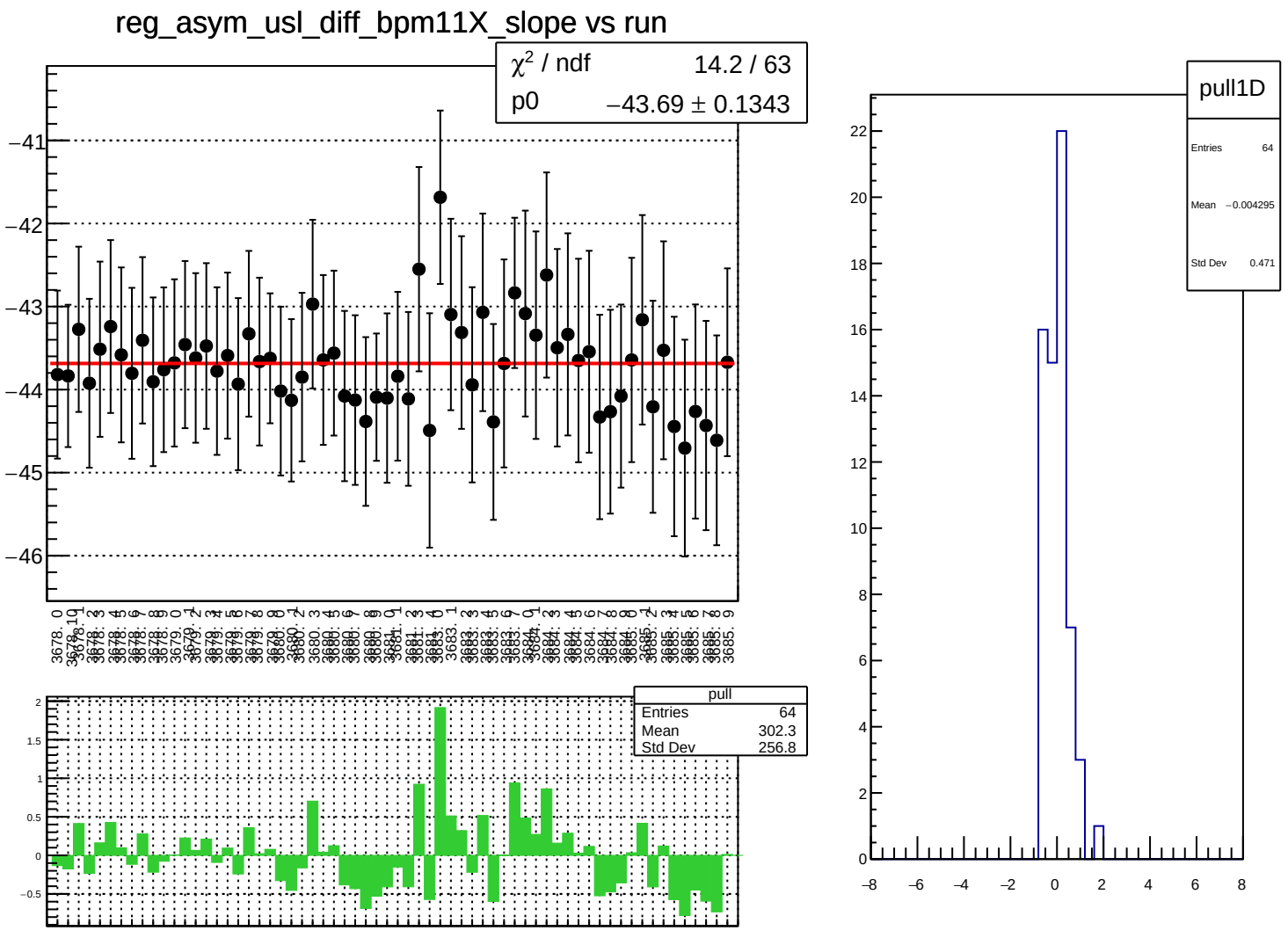

pull1D
Entries 64
Mean −0.0005017
Std Dev 0.3758

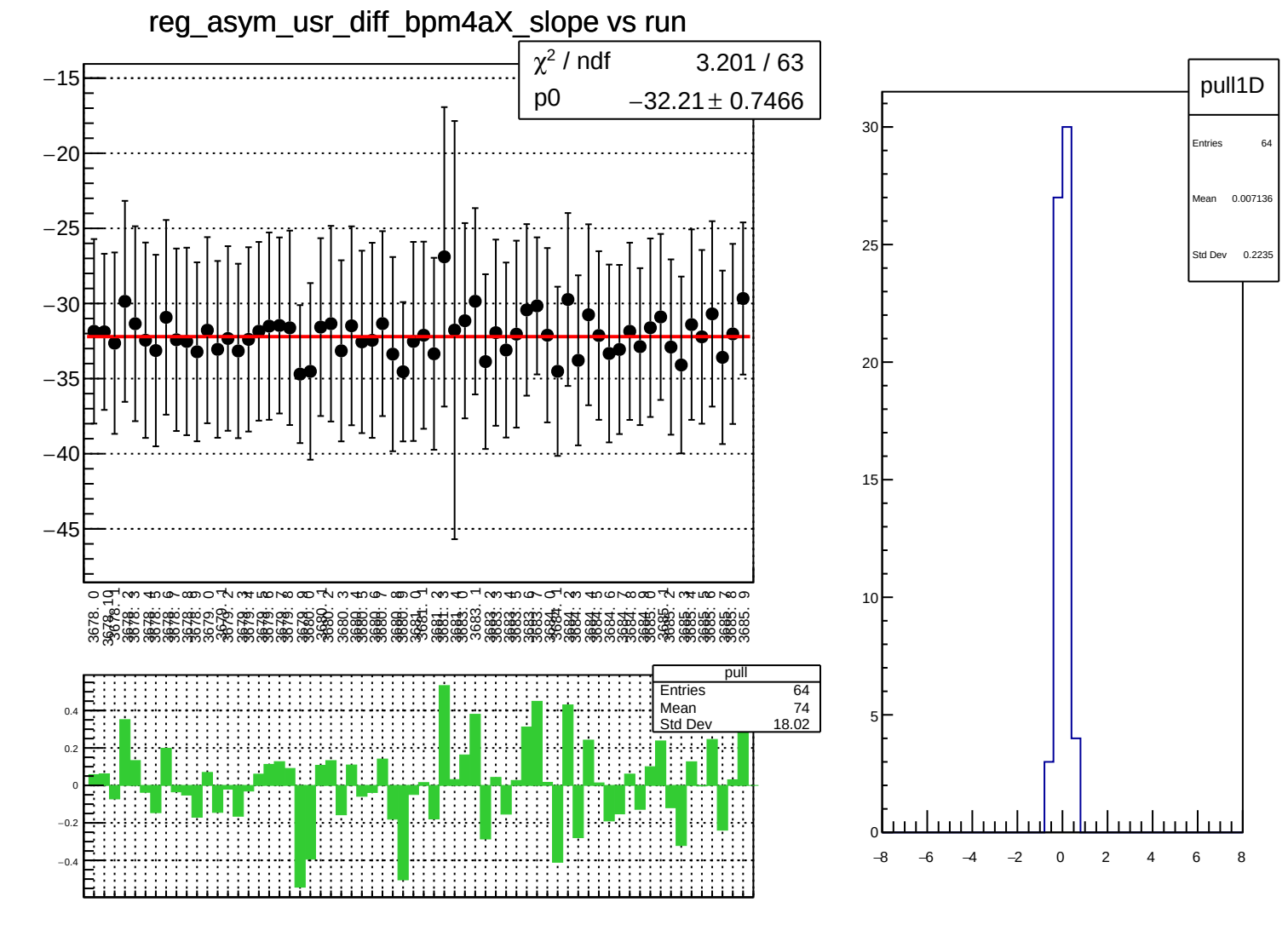

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 5.951 / 63
p0 −0.3517 ± 0.5132
pull
Entries 64
Mean −348
Std Dev 381.8
pull1D
Entries 64
Mean 0.00577
Std Dev 0.3049

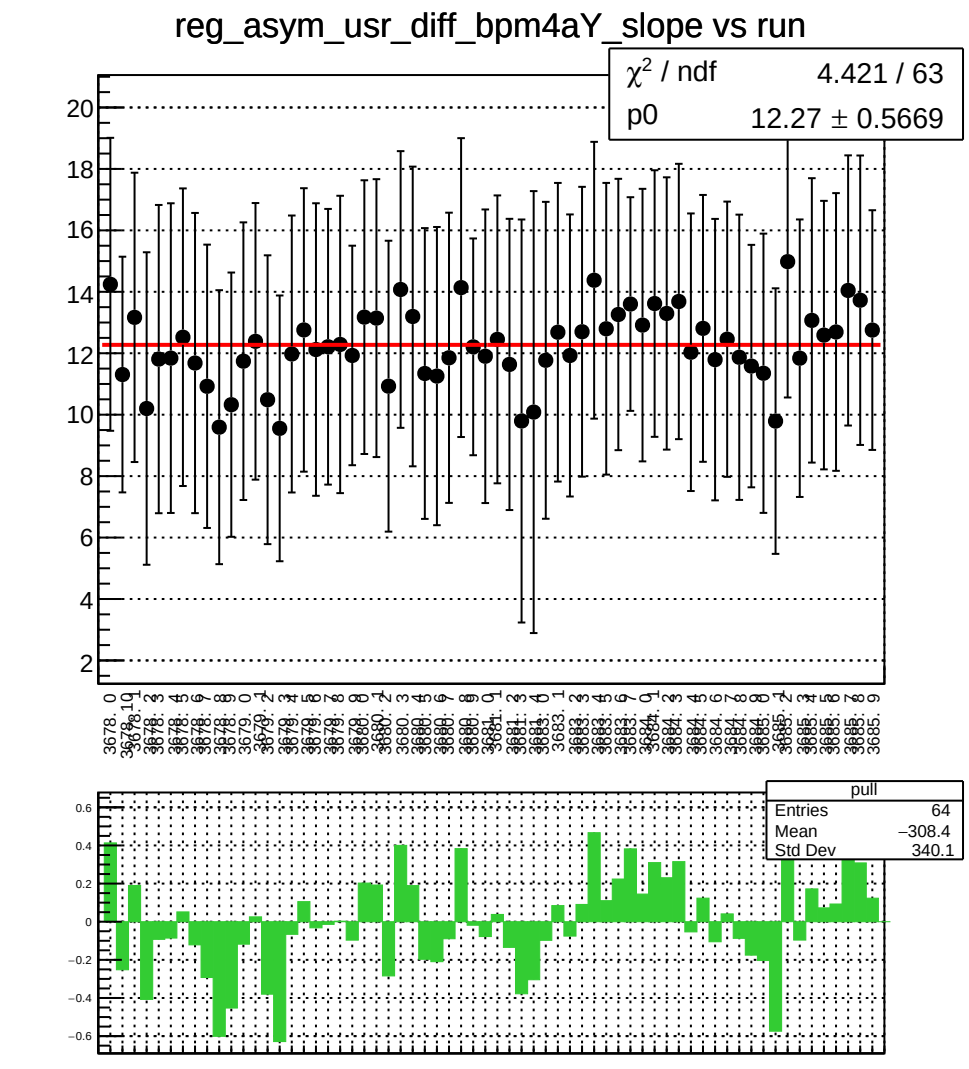

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 32.53 / 63
p0 −56.62 ± 0.1332
pull
Entries 64
Mean −189.4
Std Dev 217.6
pull1D
Entries 64
Mean −0.02724
Std Dev 0.7124

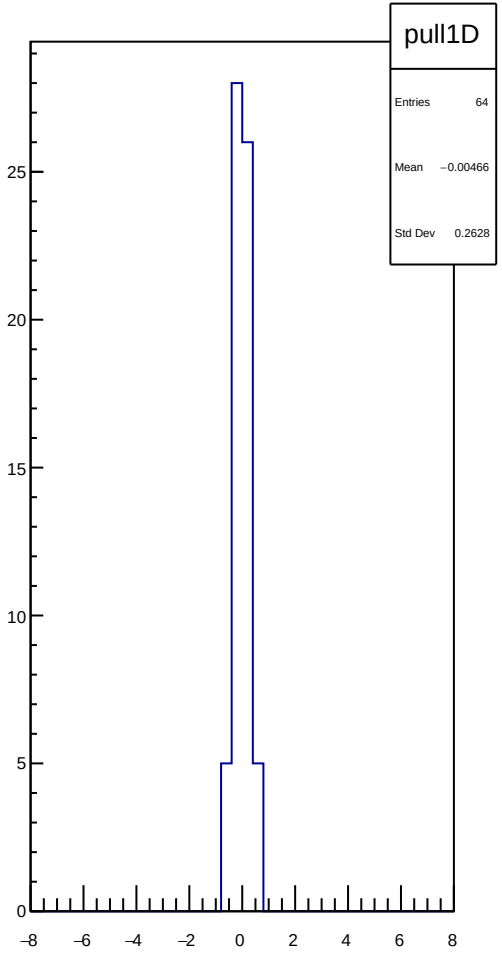

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 5.198 / 63
p0 13.78 ± 0.8019
pull
Entries 64
Mean −285.6
Std Dev 318.8

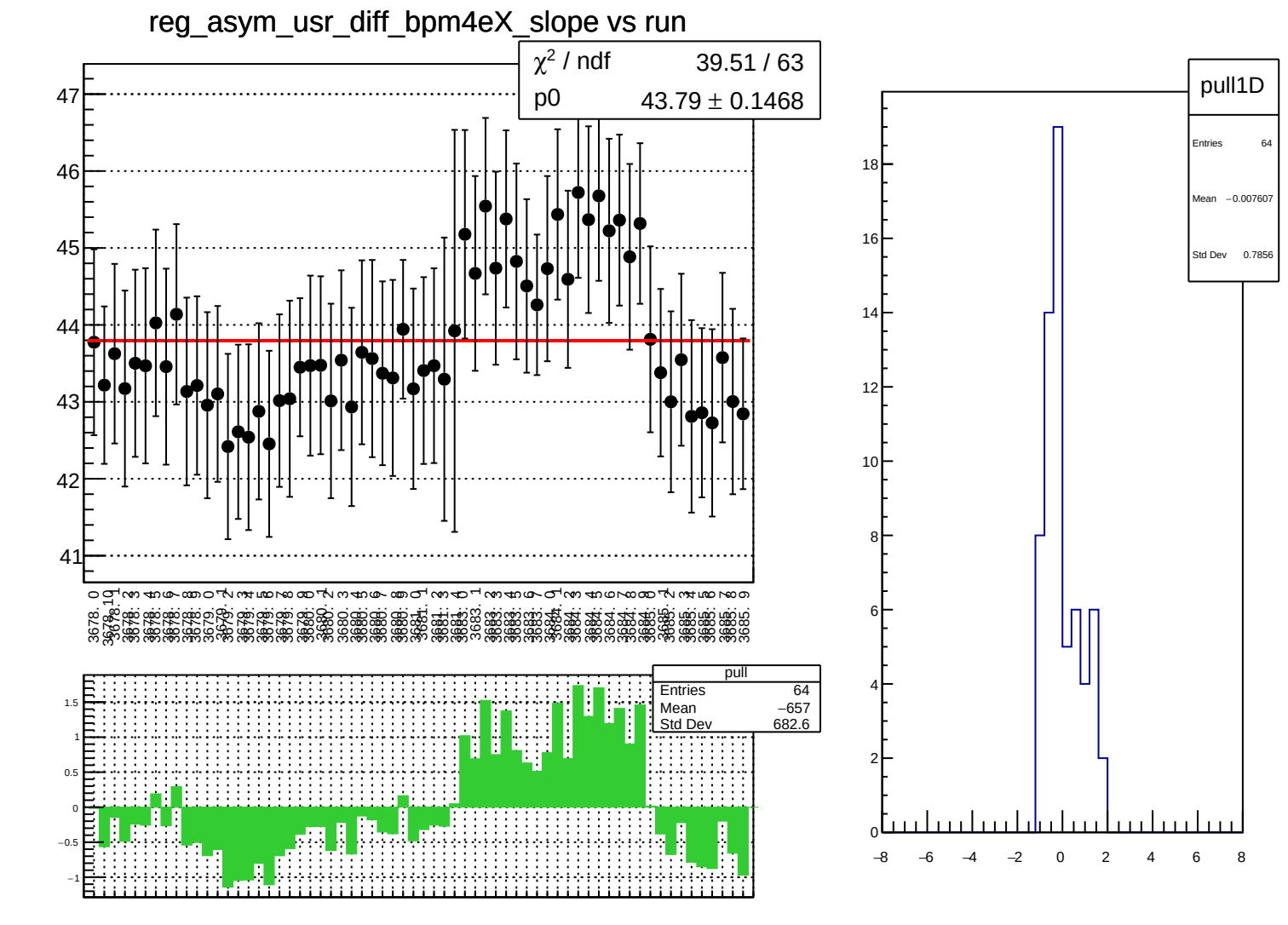

pull1D
Entries 64
Mean −0.005626
Std Dev 0.2849

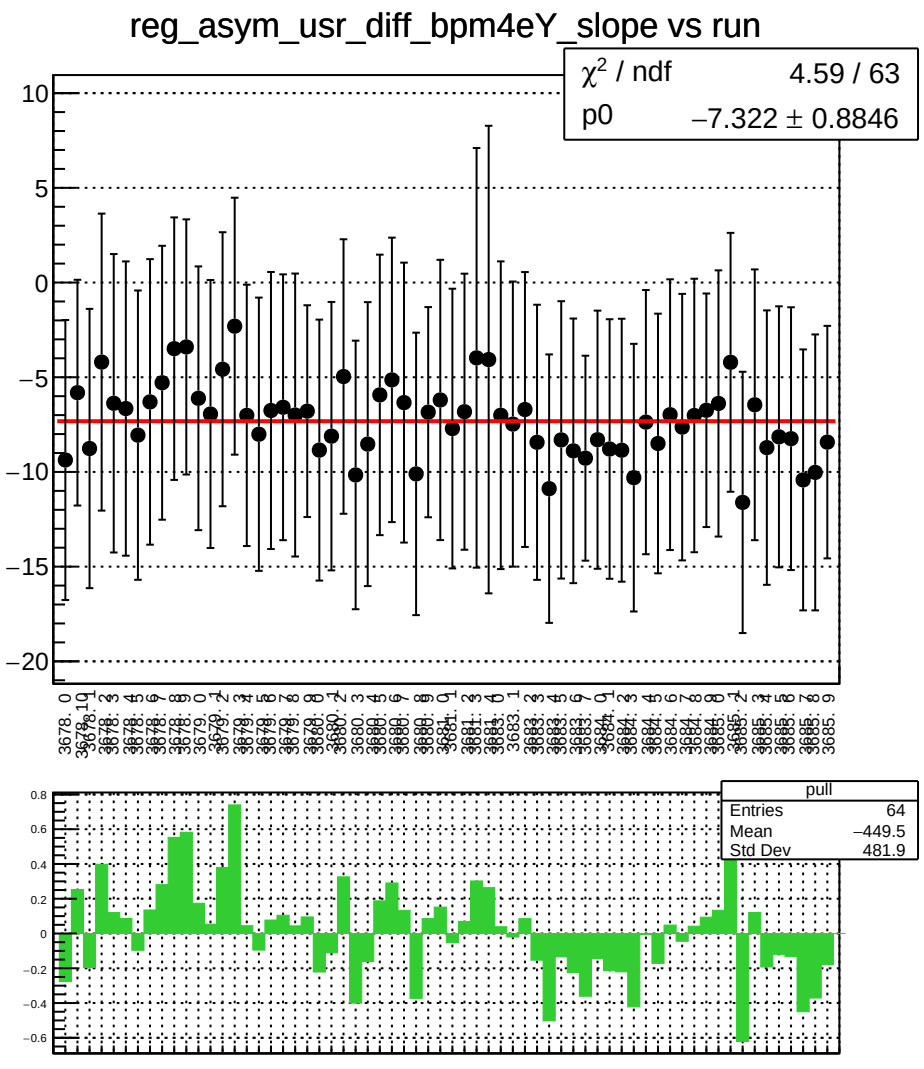

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 14.2 / 63
p0 −43.69 ± 0.1343
pull
Entries 64
Mean 302.3
Std Dev 256.8
pull1D
Entries 64
Mean −0.004295
Std Dev 0.471

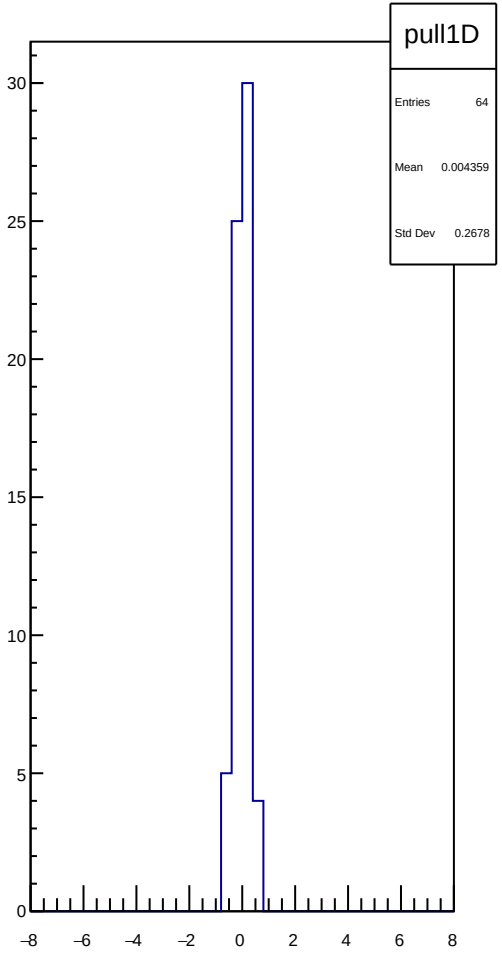

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 3.201 / 63
p0 −32.21 ± 0.7466
pull
Entries 64
Mean 74
Std Dev 18.02
pull1D
Entries 64
Mean 0.007136
Std Dev 0.2235

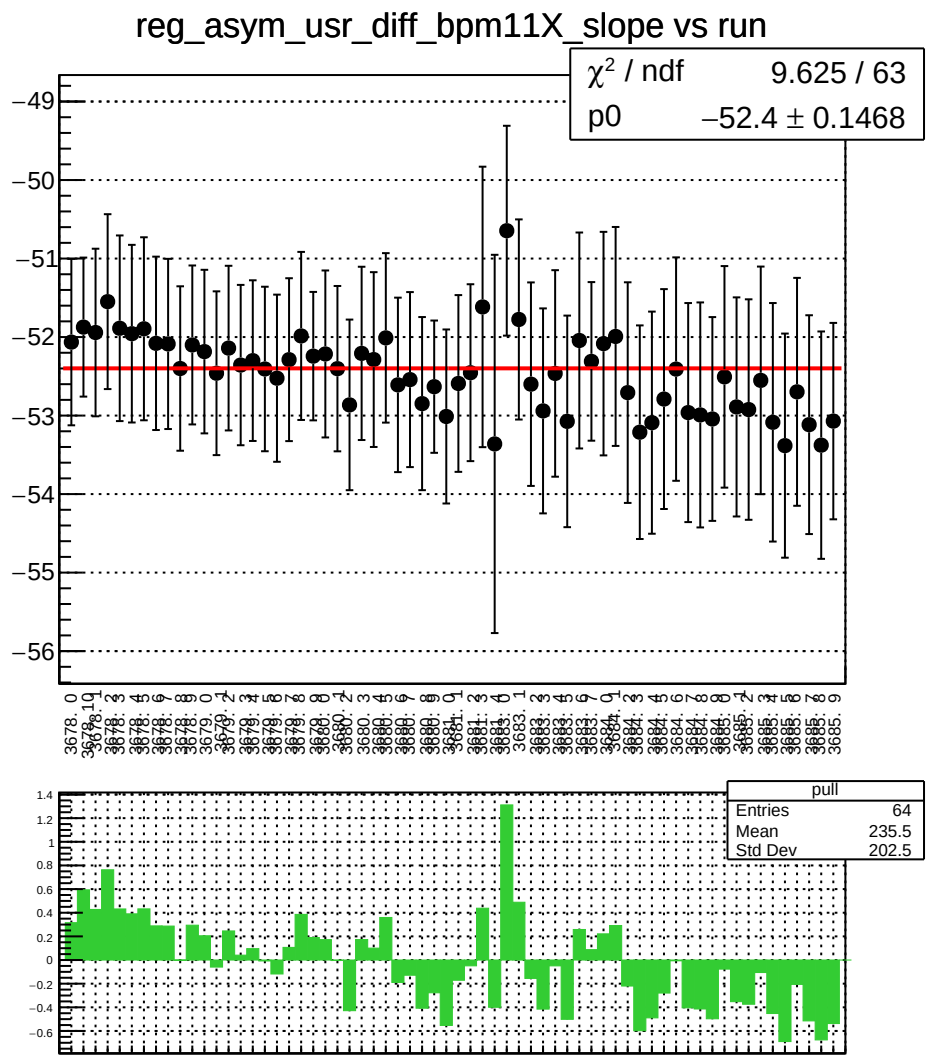

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 4.421 / 63
p0 12.27 ± 0.5669
pull
Entries 64
Mean −308.4
Std Dev 340.1

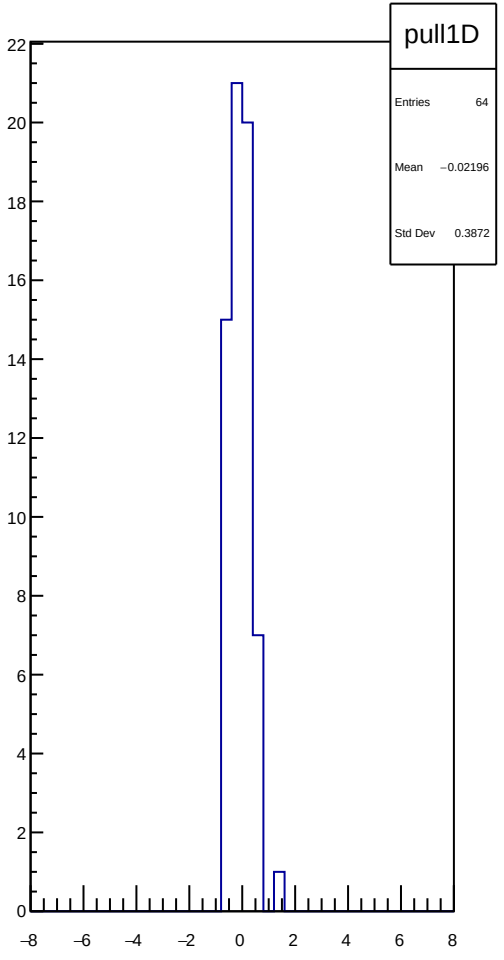

pull1D
Entries 64
Mean −0.00466
Std Dev 0.2628

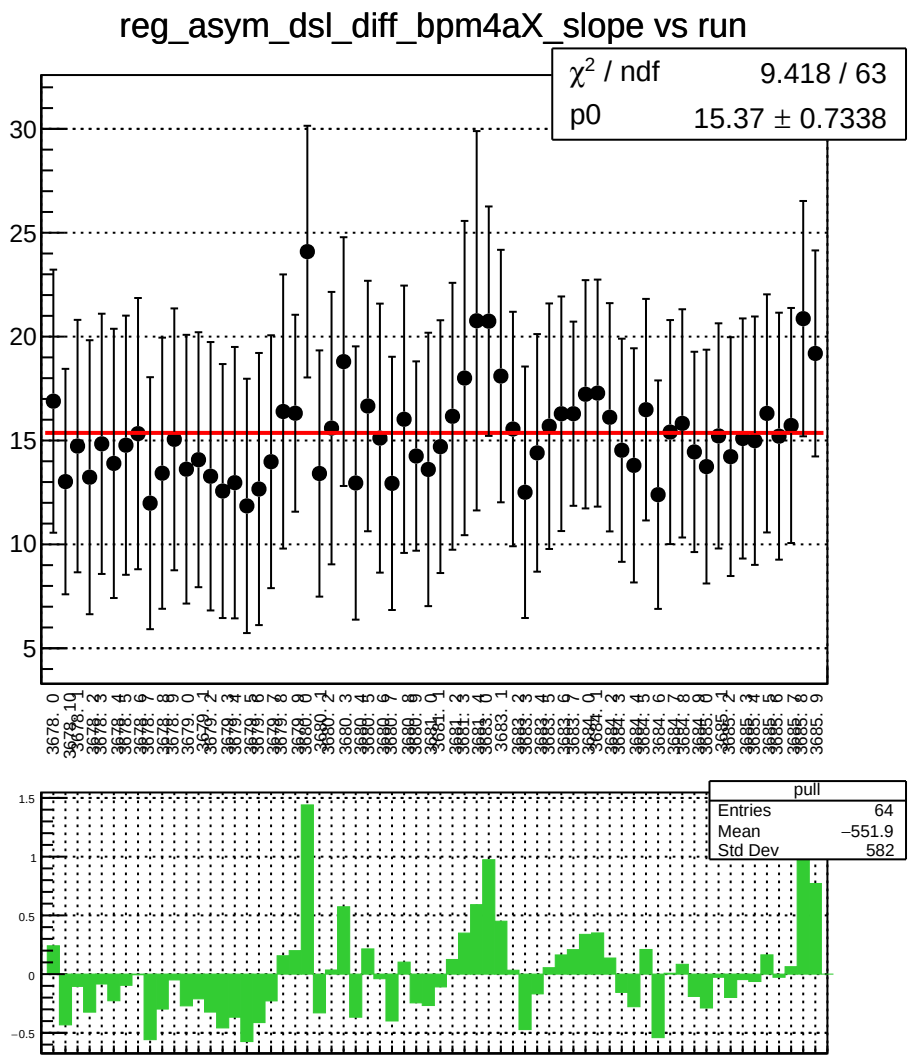

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 39.51 / 63
p0 43.79 ± 0.1468
pull
Entries 64
Mean −657
Std Dev 682.6
pull1D
Entries 64
Mean −0.007607
Std Dev 0.7856

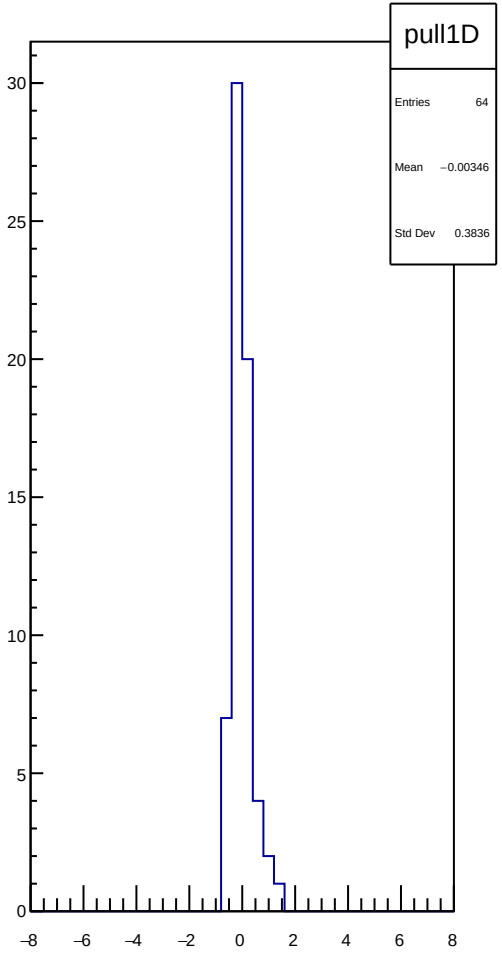

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 4.59 / 63
p0 −7.322 ± 0.8846
pull
Entries 64
Mean −449.5
Std Dev 481.9

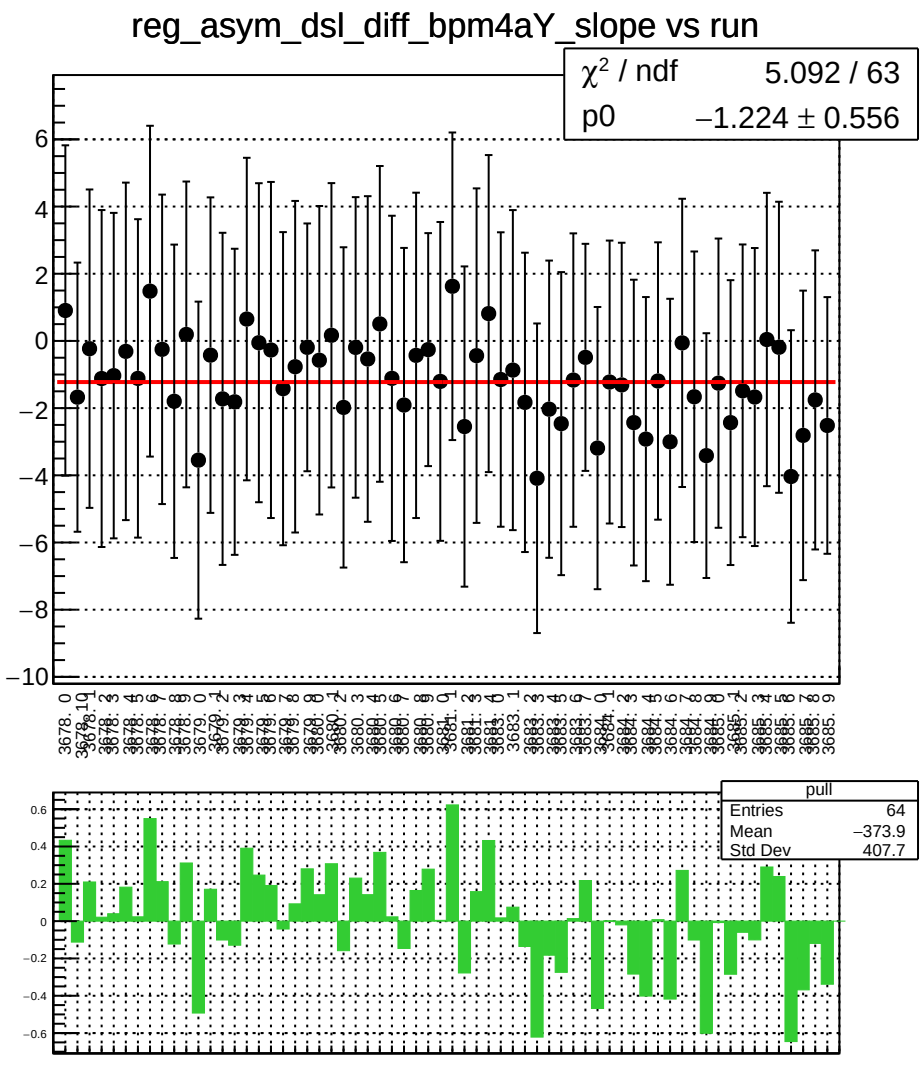

pull1D
Entries 64
Mean 0.004359
Std Dev 0.2678

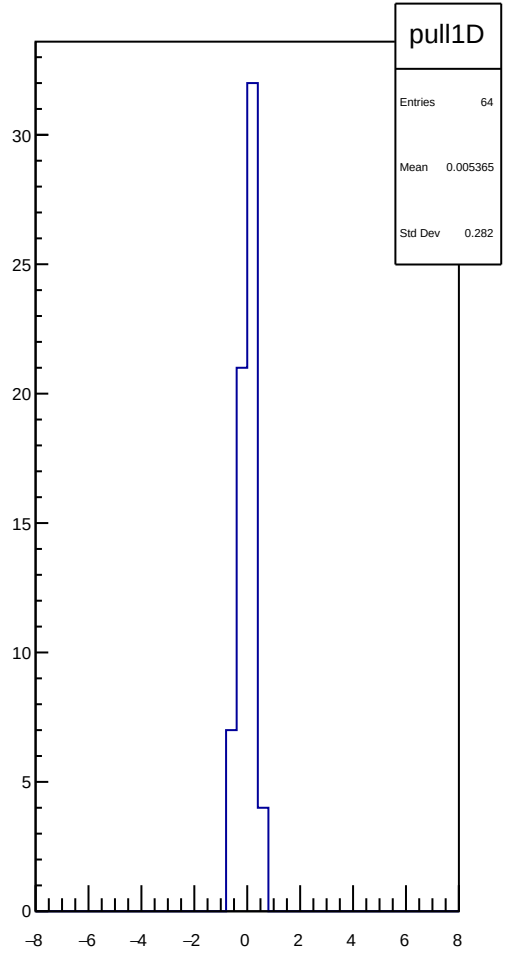

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 9.625 / 63
p0 −52.4 ± 0.1468
pull
Entries 64
Mean 235.5
Std Dev 202.5

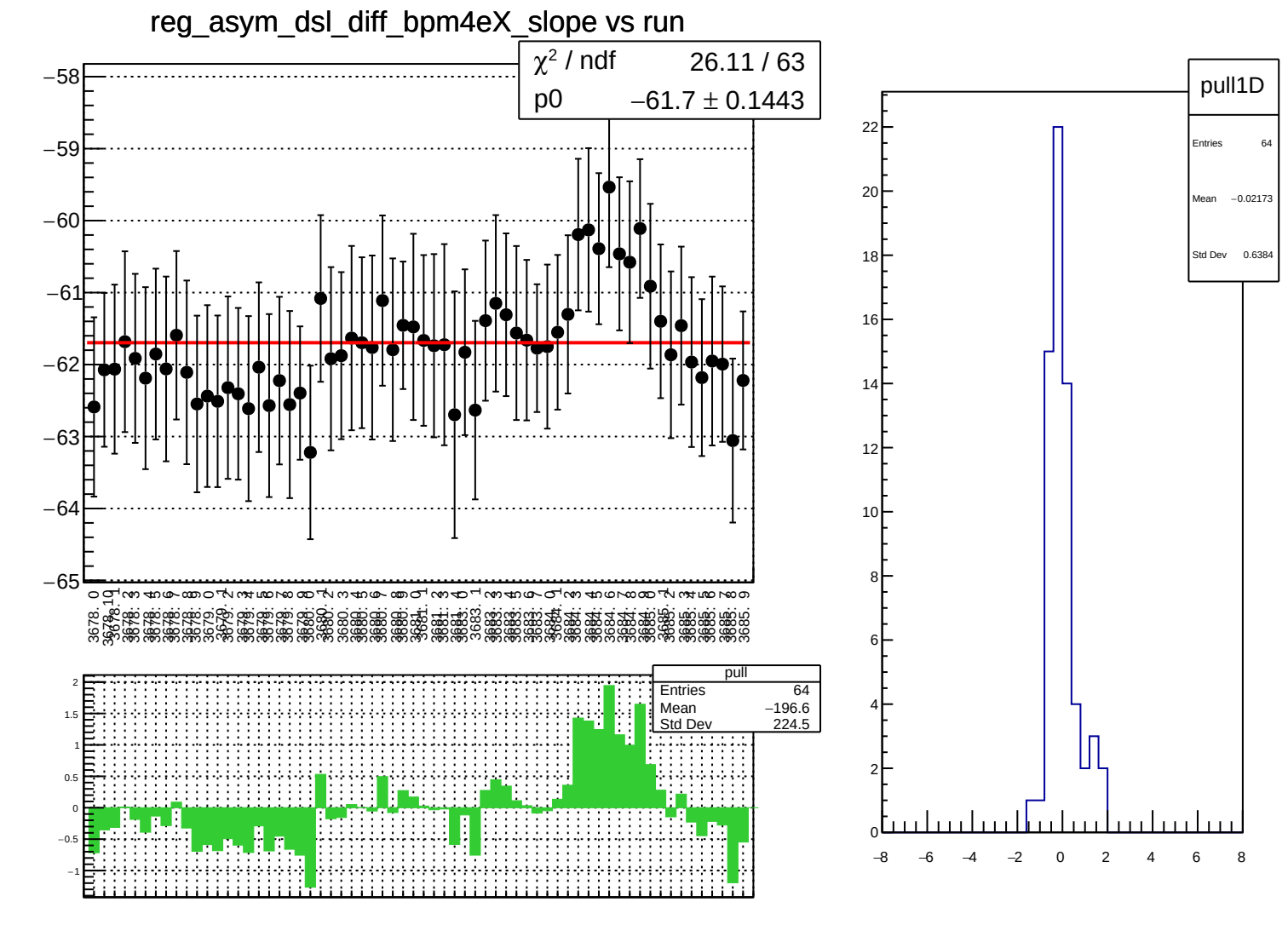

pull1D
Entries 64
Mean −0.02196
Std Dev 0.3872

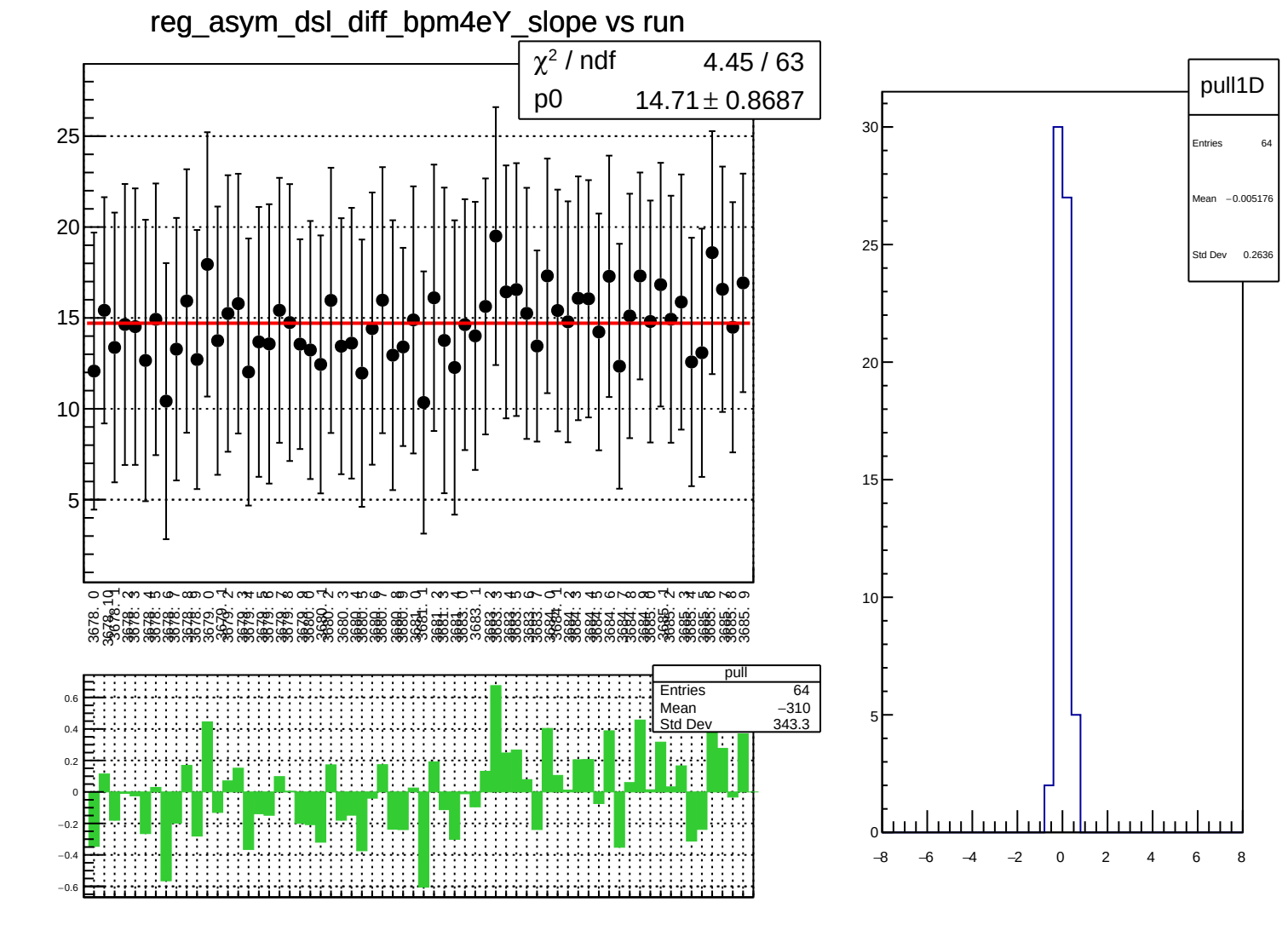

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 9.418 / 63
p0 15.37 ± 0.7338
pull
Entries 64
Mean −551.9
Std Dev 582

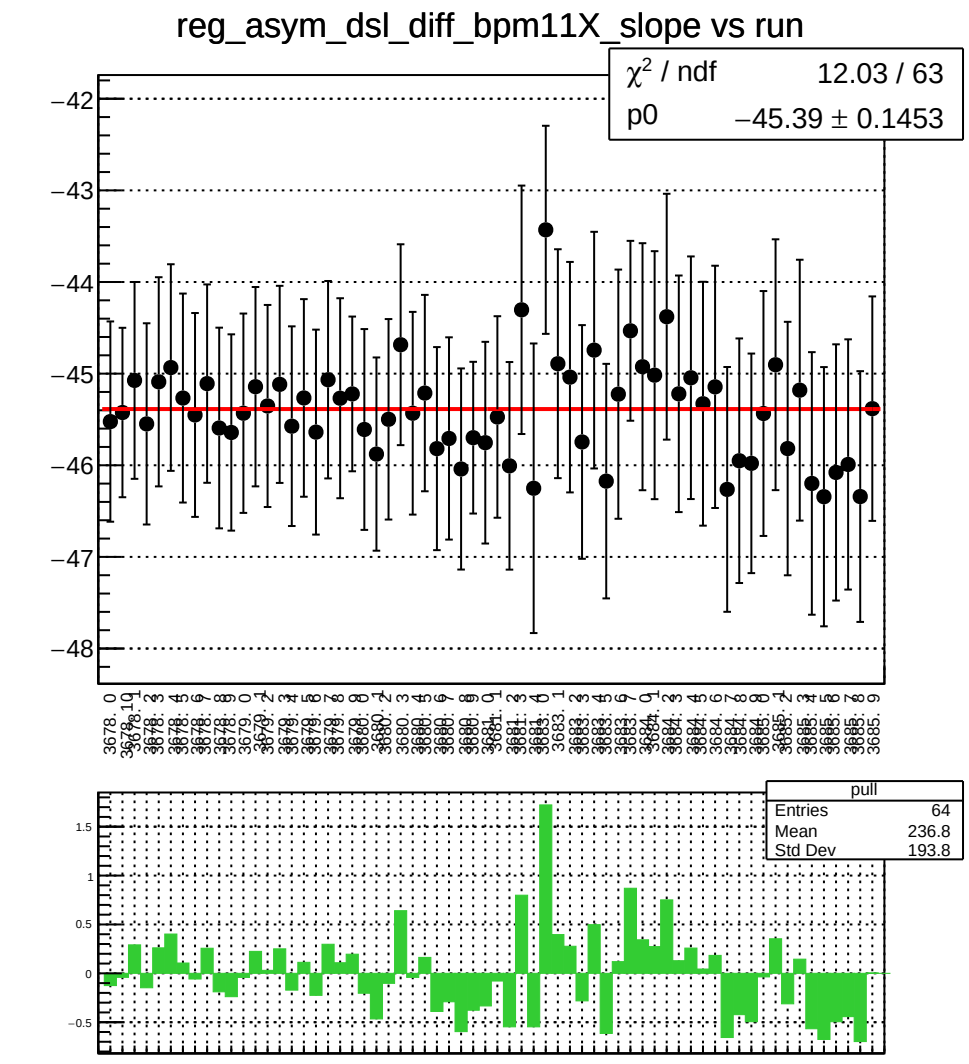

pull1D
Entries 64
Mean −0.00346
Std Dev 0.3836

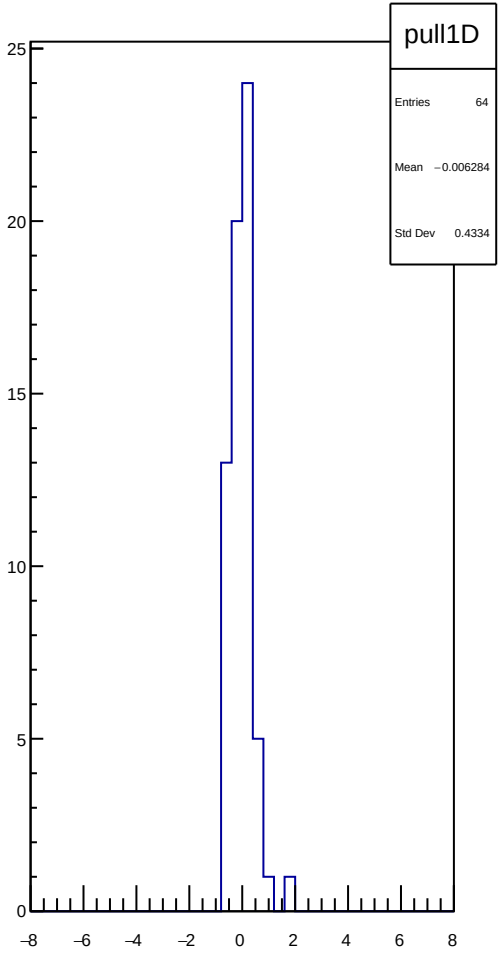

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 5.092 / 63
p0 −1.224 ± 0.556
pull
Entries 64
Mean −373.9
Std Dev 407.7

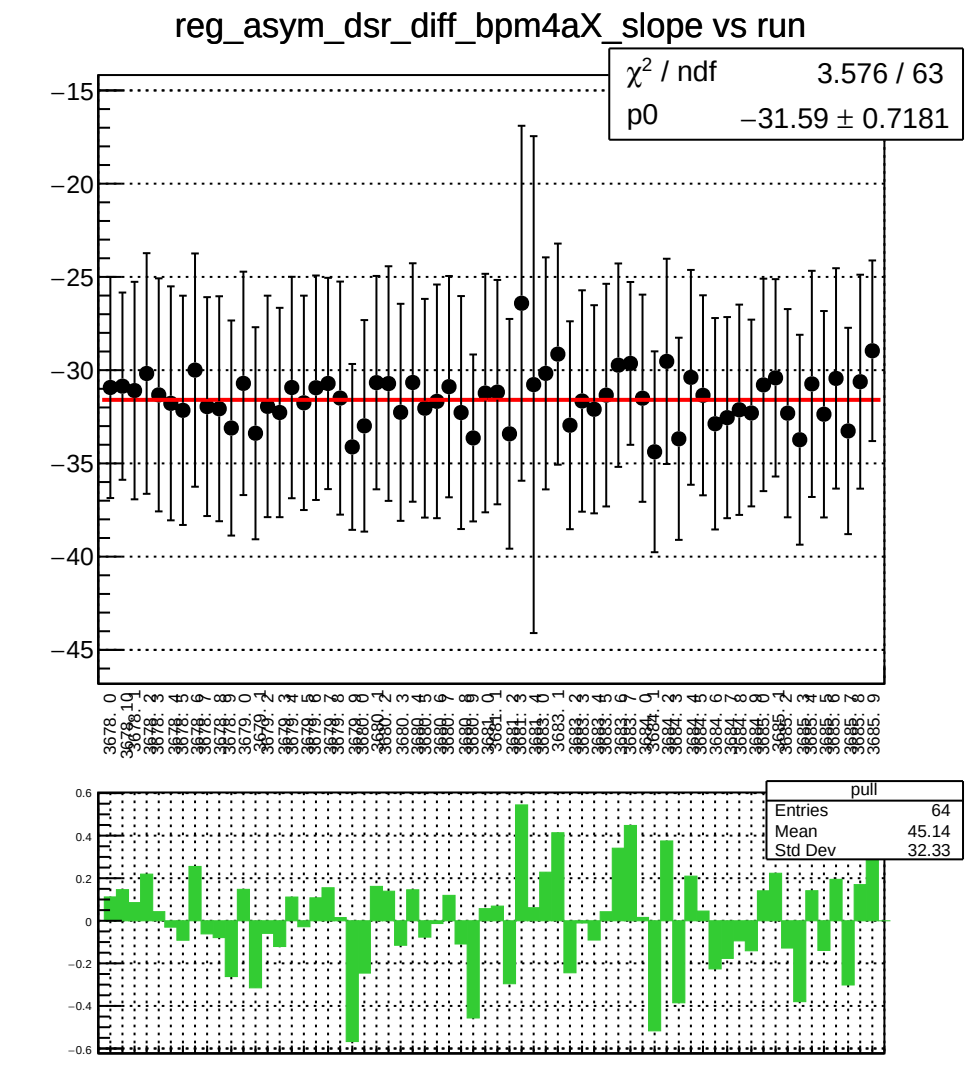

pull1D
Entries 64
Mean 0.005365
Std Dev 0.282

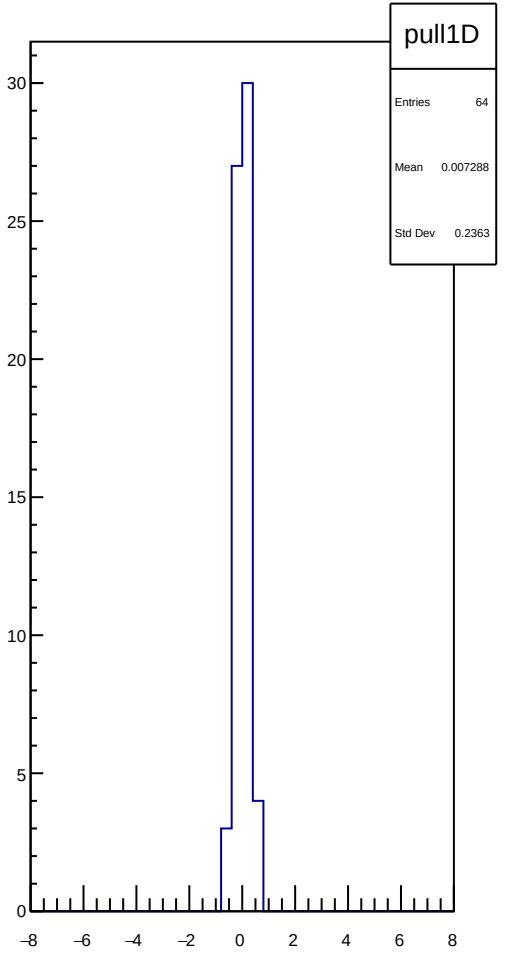

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 26.11 / 63
p0 −61.7 ± 0.1443
pull
Entries 64
Mean −196.6
Std Dev 224.5
pull1D
Entries 64
Mean −0.02173
Std Dev 0.6384

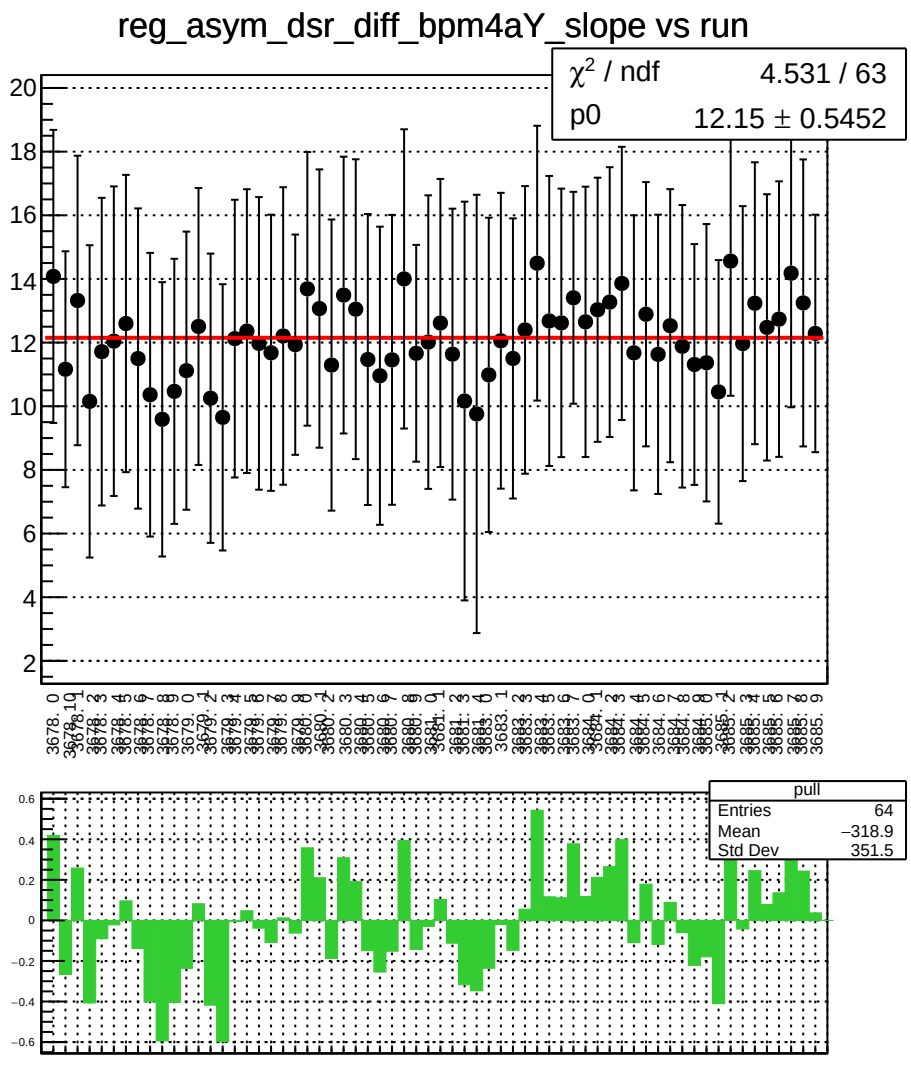

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 4.45 / 63
p0 14.71 ± 0.8687
pull
Entries 64
Mean −310
Std Dev 343.3
pull1D
Entries 64
Mean −0.005176
Std Dev 0.2636

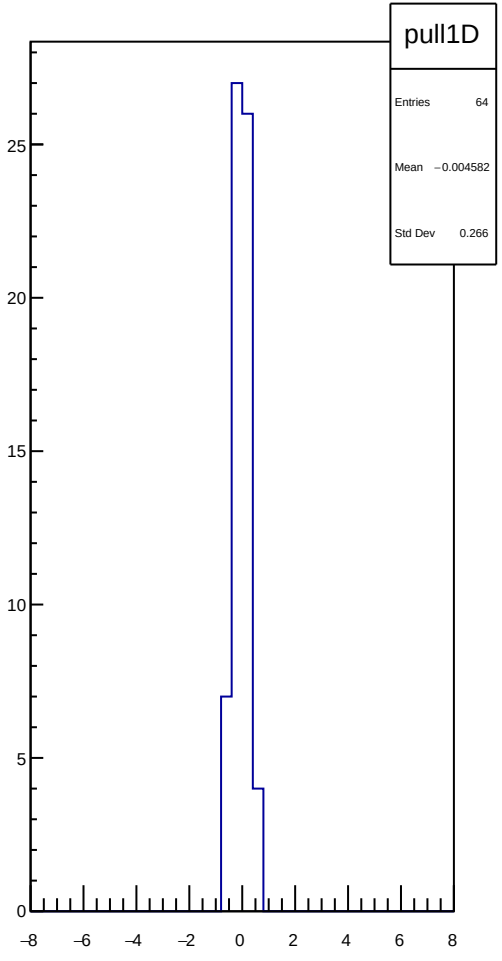

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 12.03 / 63
p0 −45.39 ± 0.1453
pull
Entries 64
Mean 236.8
Std Dev 193.8

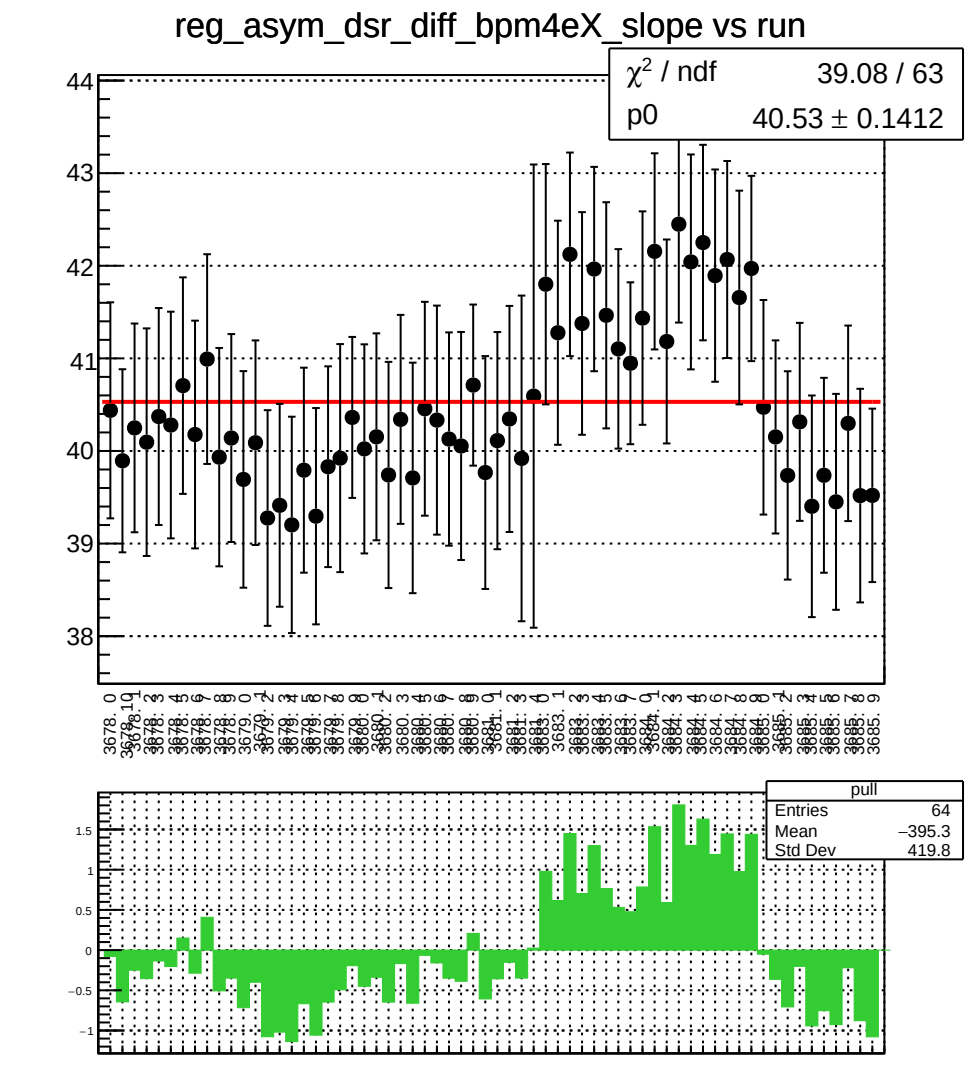

pull1D
Entries 64
Mean −0.006284
Std Dev 0.4334

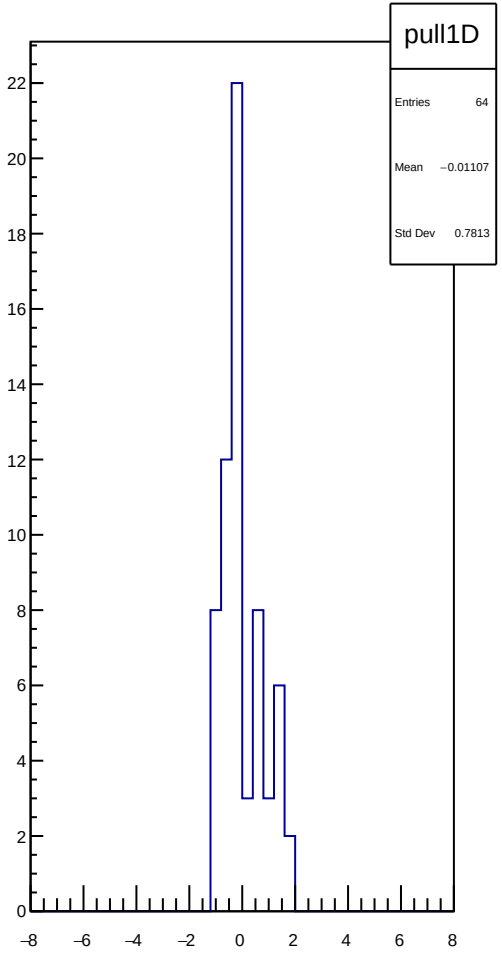

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 3.576 / 63
p0 −31.59 ± 0.7181
pull
Entries 64
Mean 45.14
Std Dev 32.33

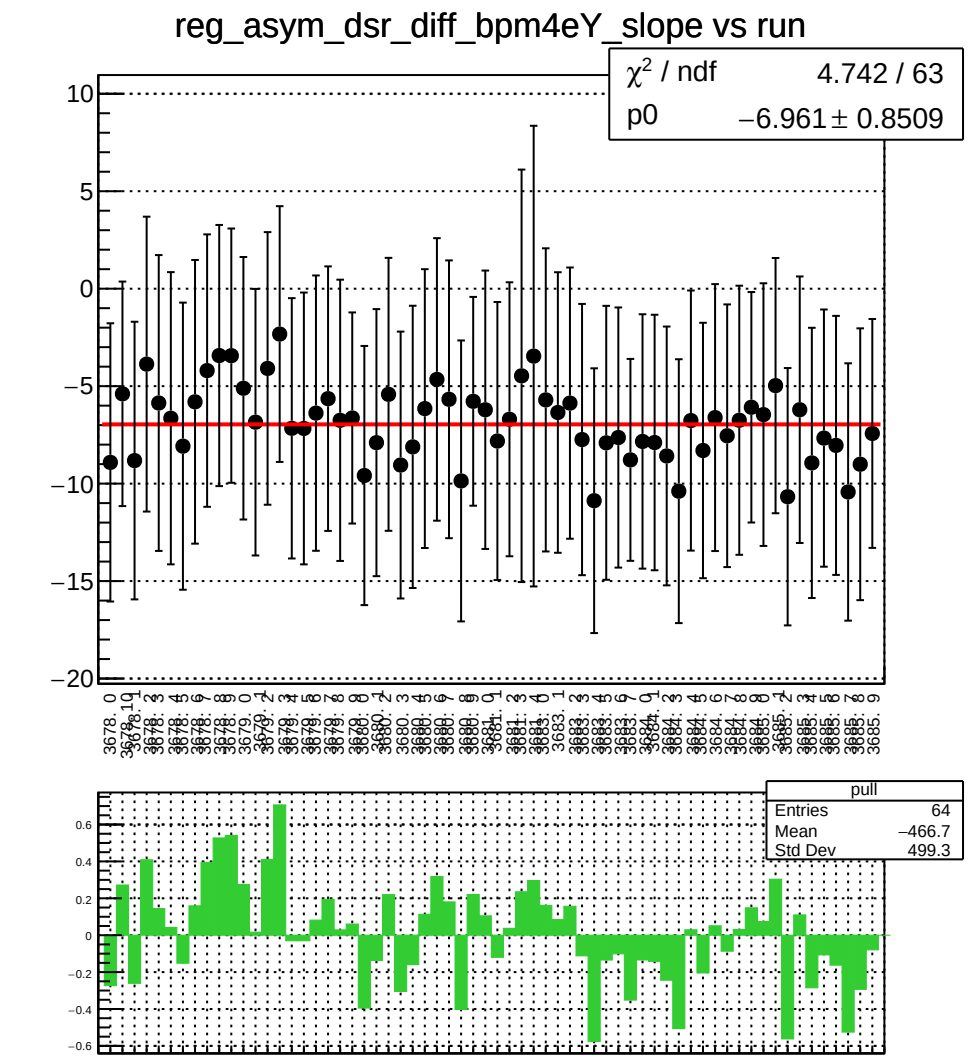

pull1D
Entries 64
Mean 0.007288
Std Dev 0.2363

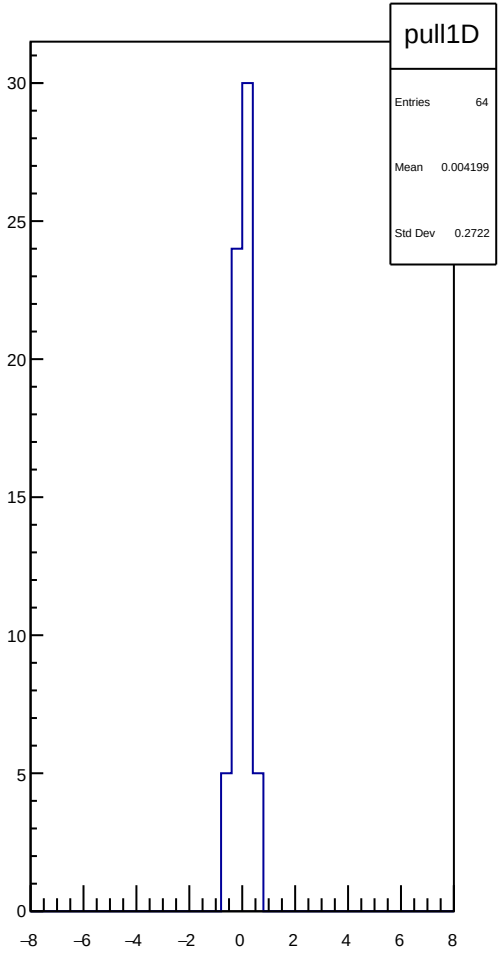

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 4.531 / 63
p0 12.15 ± 0.5452
pull
Entries 64
Mean −318.9
Std Dev 351.5

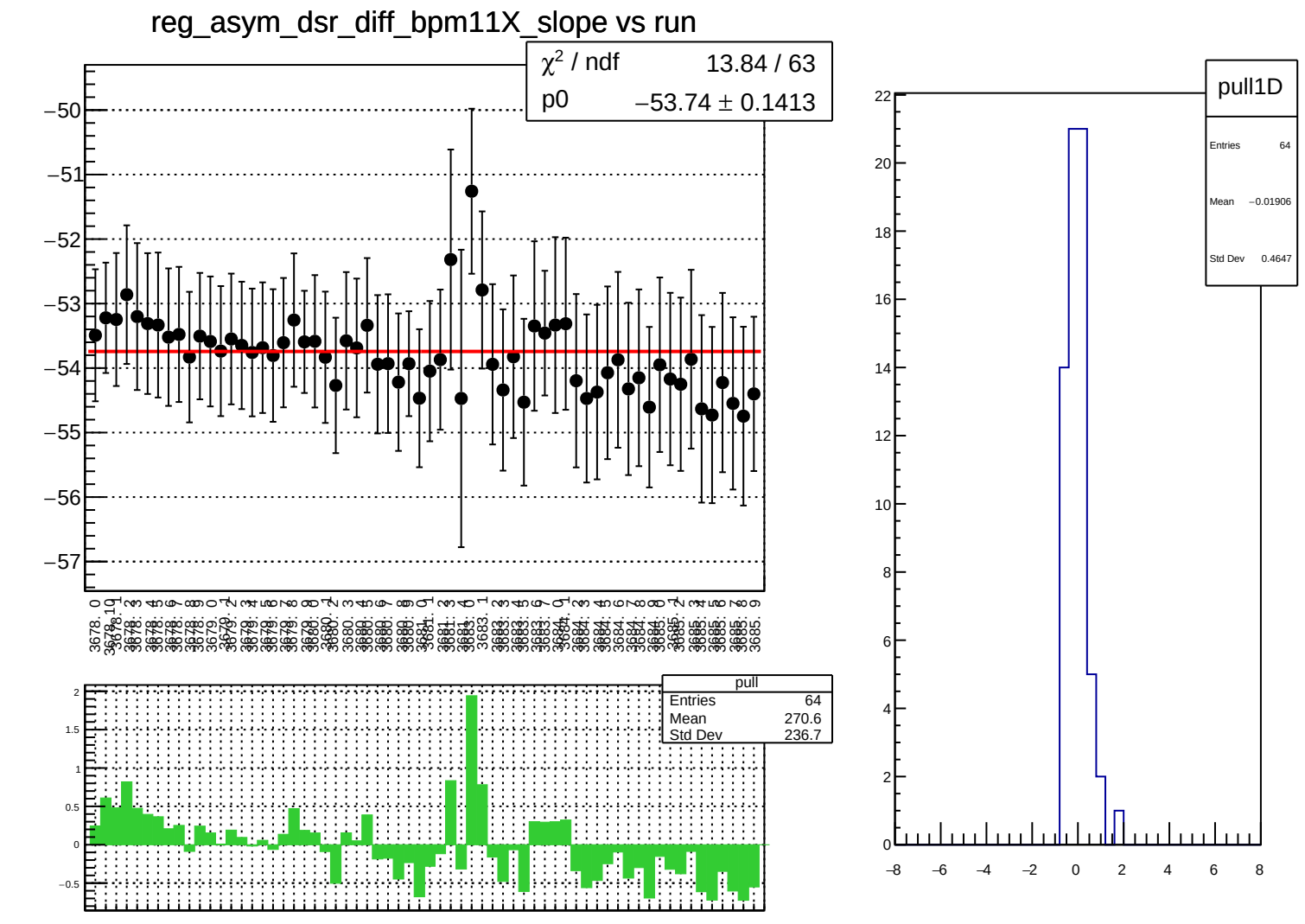

pull1D
Entries 64
Mean −0.004582
Std Dev 0.266

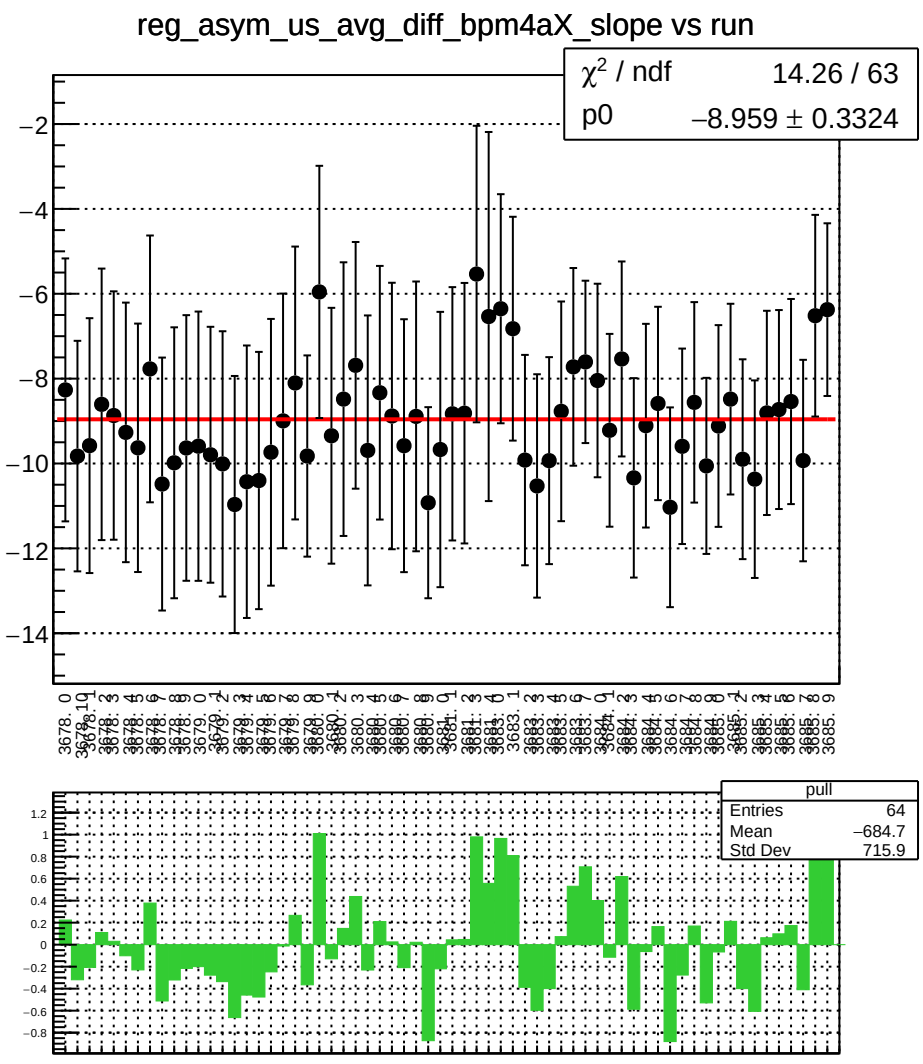

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 39.08 / 63
p0 40.53 ± 0.1412
pull
Entries 64
Mean −395.3
Std Dev 419.8

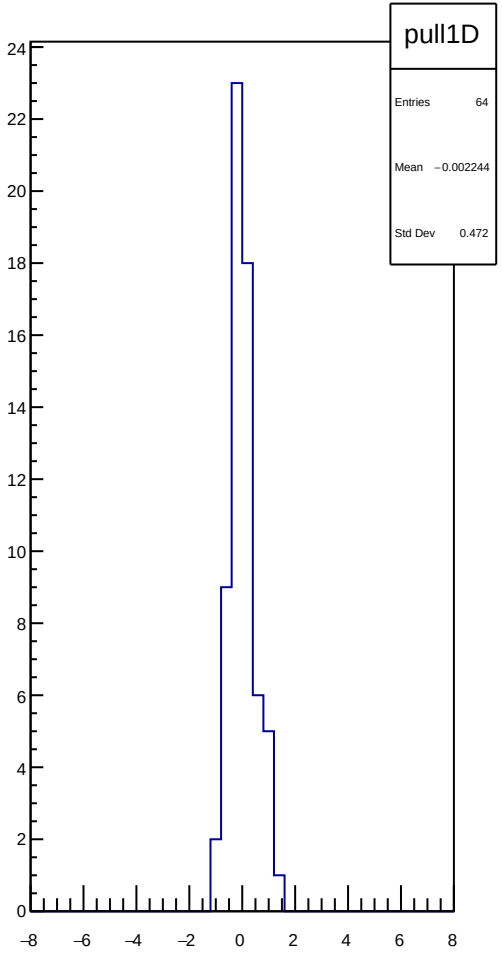

pull1D
Entries 64
Mean −0.01107
Std Dev 0.7813

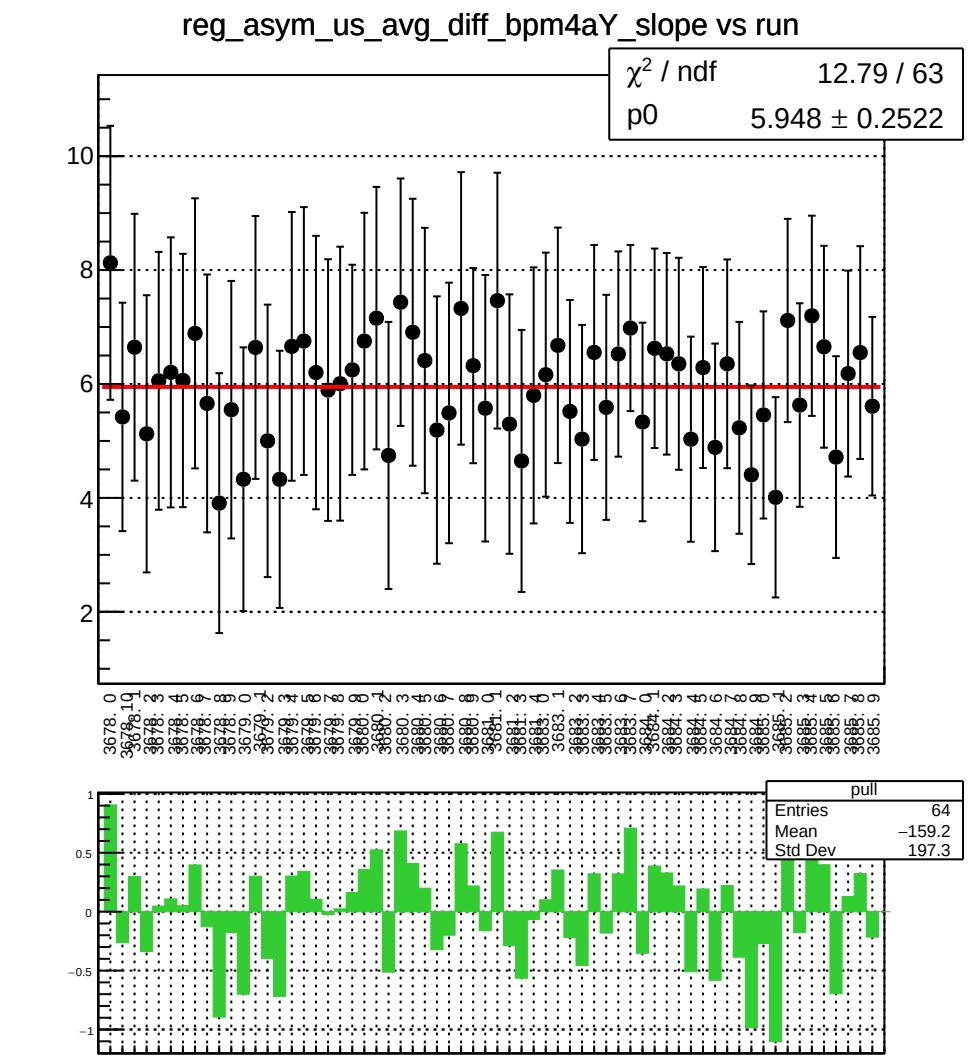

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 4.742 / 63
p0 −6.961 ± 0.8509
pull
Entries 64
Mean −466.7
Std Dev 499.3

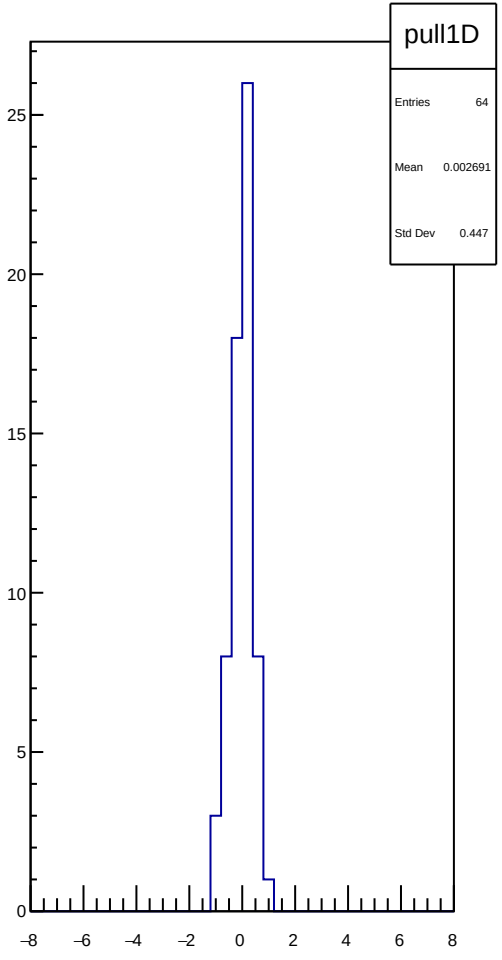

pull1D
Entries 64
Mean 0.004199
Std Dev 0.2722

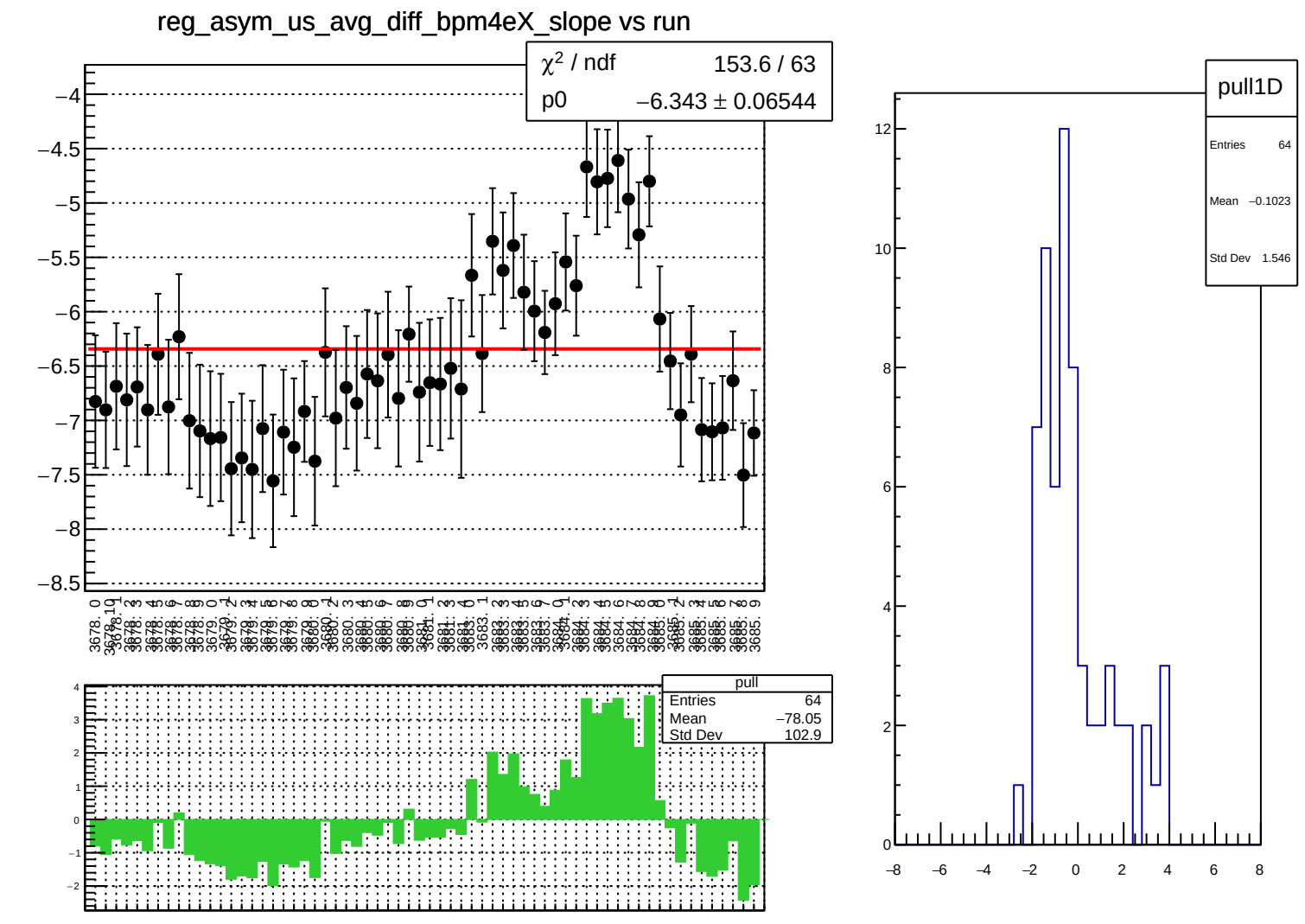

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 13.84 / 63
p0 −53.74 ± 0.1413
pull
Entries 64
Mean 270.6
Std Dev 236.7
pull1D
Entries 64
Mean −0.01906
Std Dev 0.4647

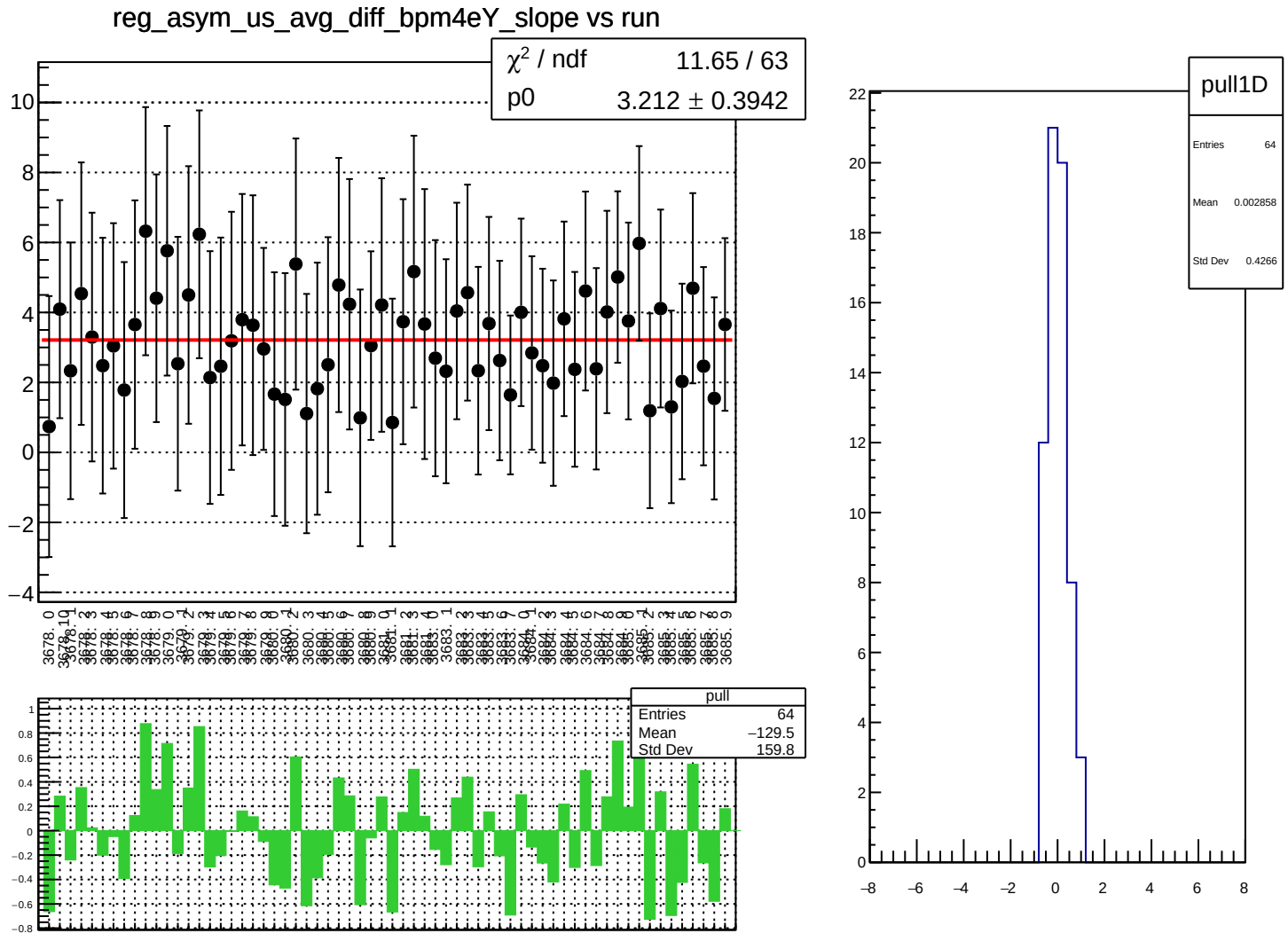

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 14.26 / 63
p0 −8.959 ± 0.3324
pull
Entries 64
Mean −684.7
Std Dev 715.9

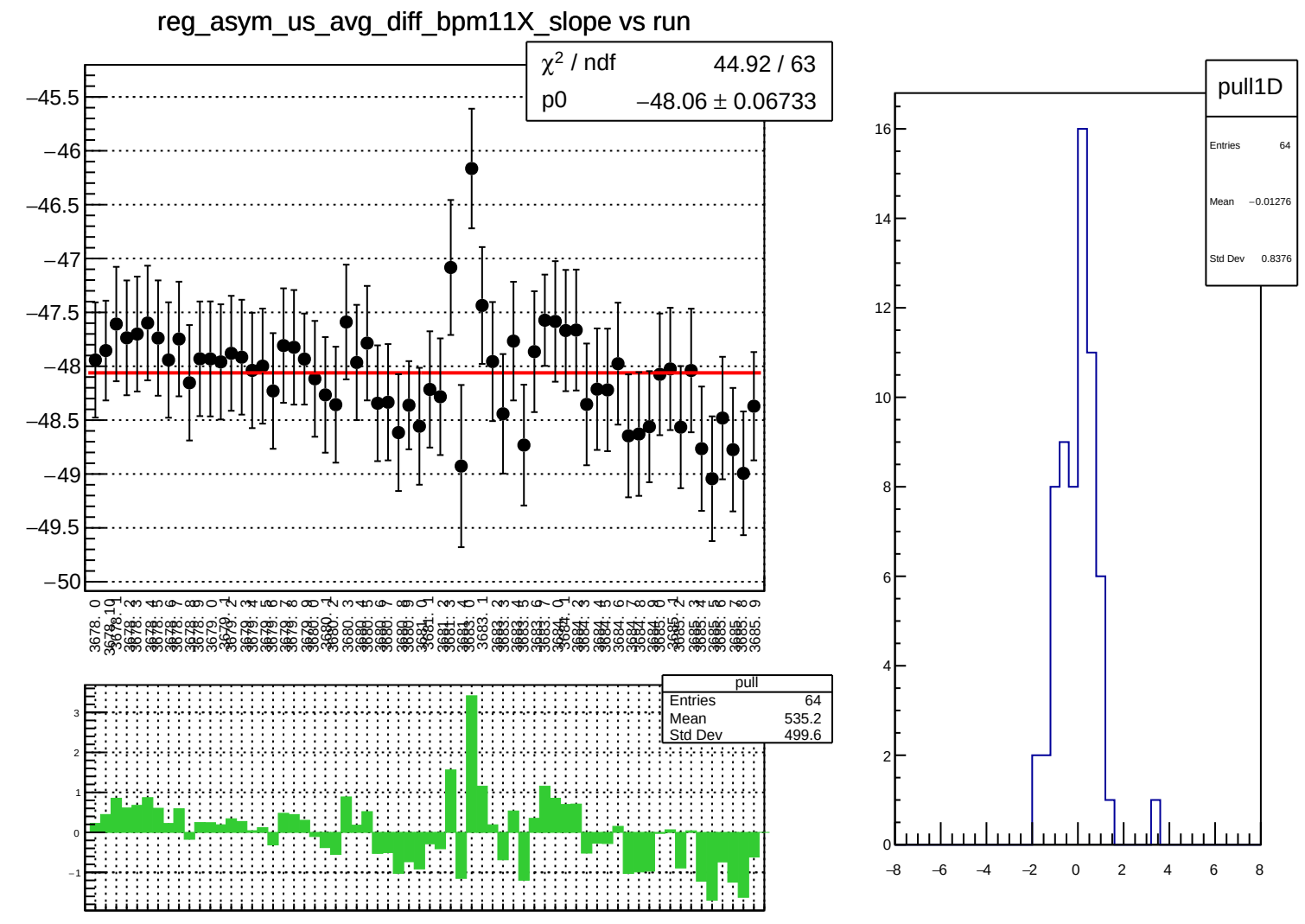

pull1D
Entries 64
Mean −0.002244
Std Dev 0.472

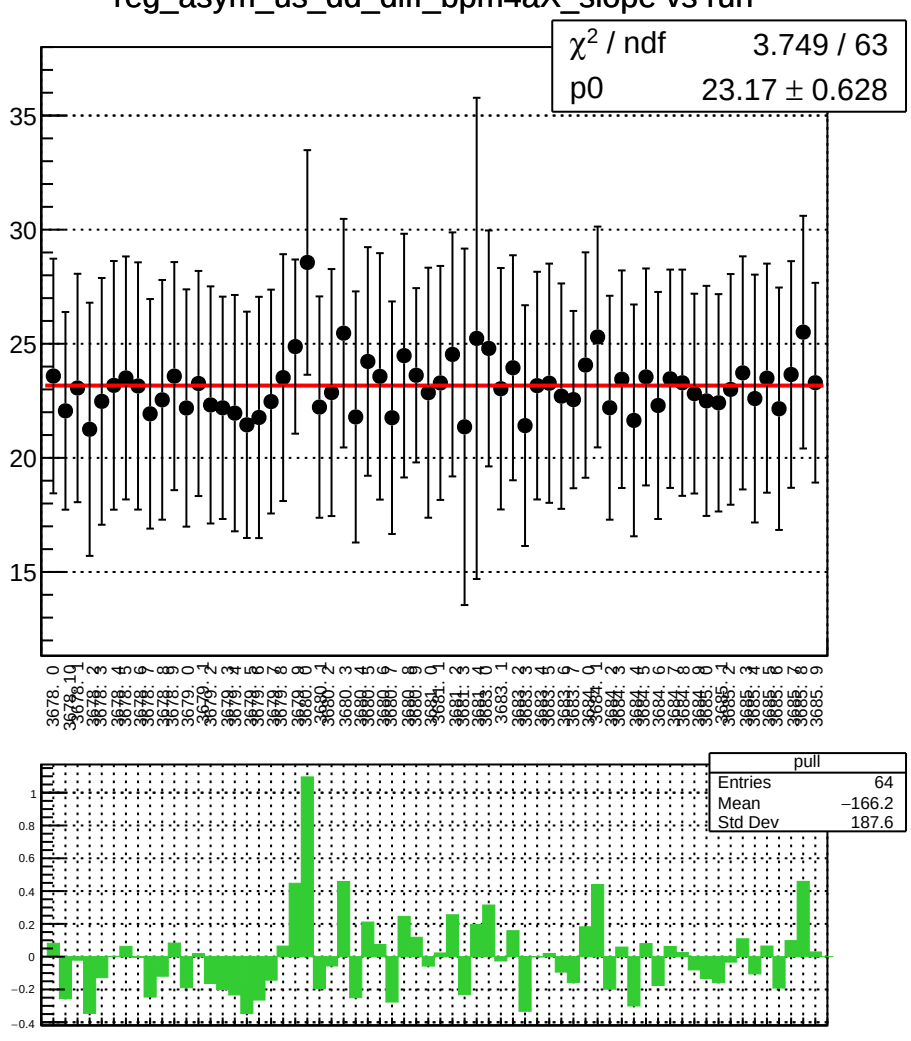

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.79 / 63
p0 5.948 ± 0.2522
pull
Entries 64
Mean −159.2
Std Dev 197.3

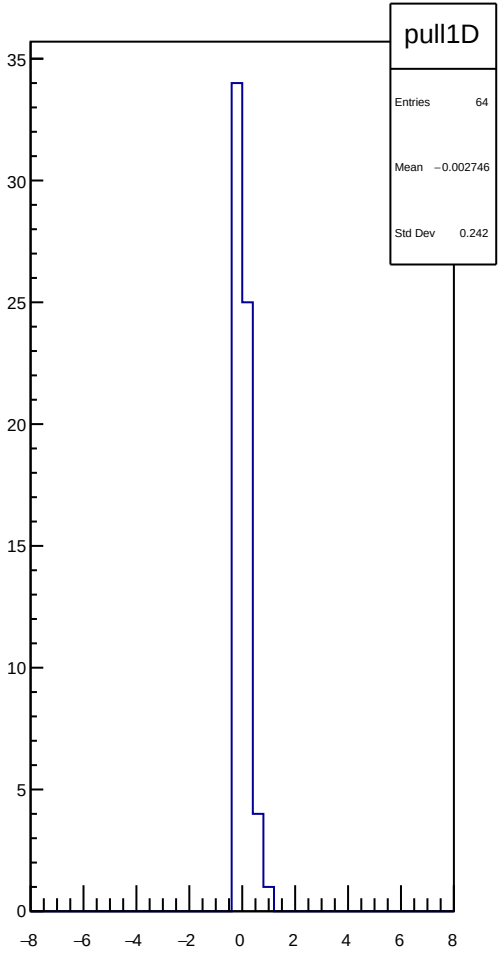

pull1D
Entries 64
Mean 0.002691
Std Dev 0.447

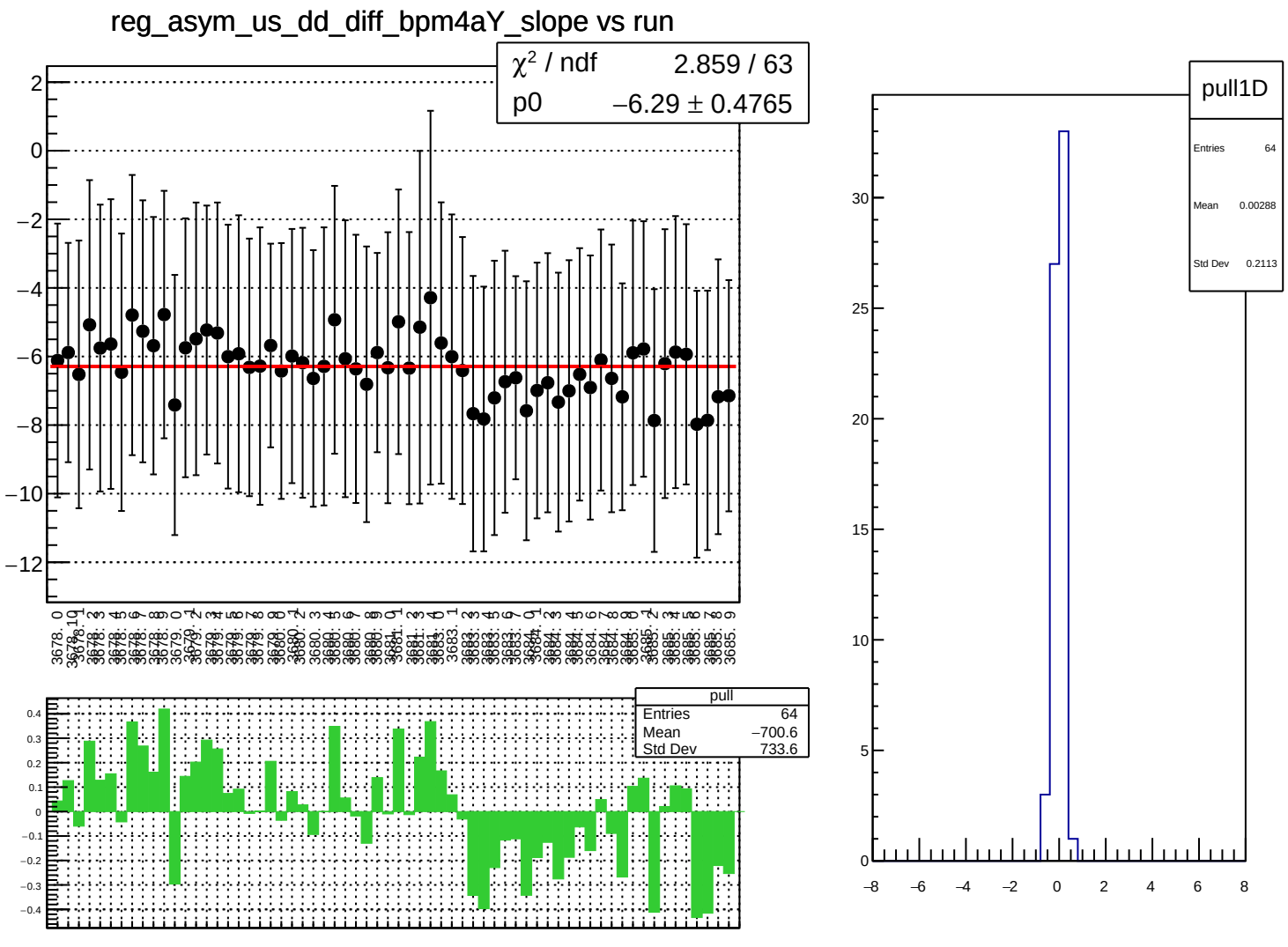

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 153.6 / 63
p0 −6.343 ± 0.06544
pull
Entries 64
Mean −78.05
Std Dev 102.9
pull1D
Entries 64
Mean −0.1023
Std Dev 1.546

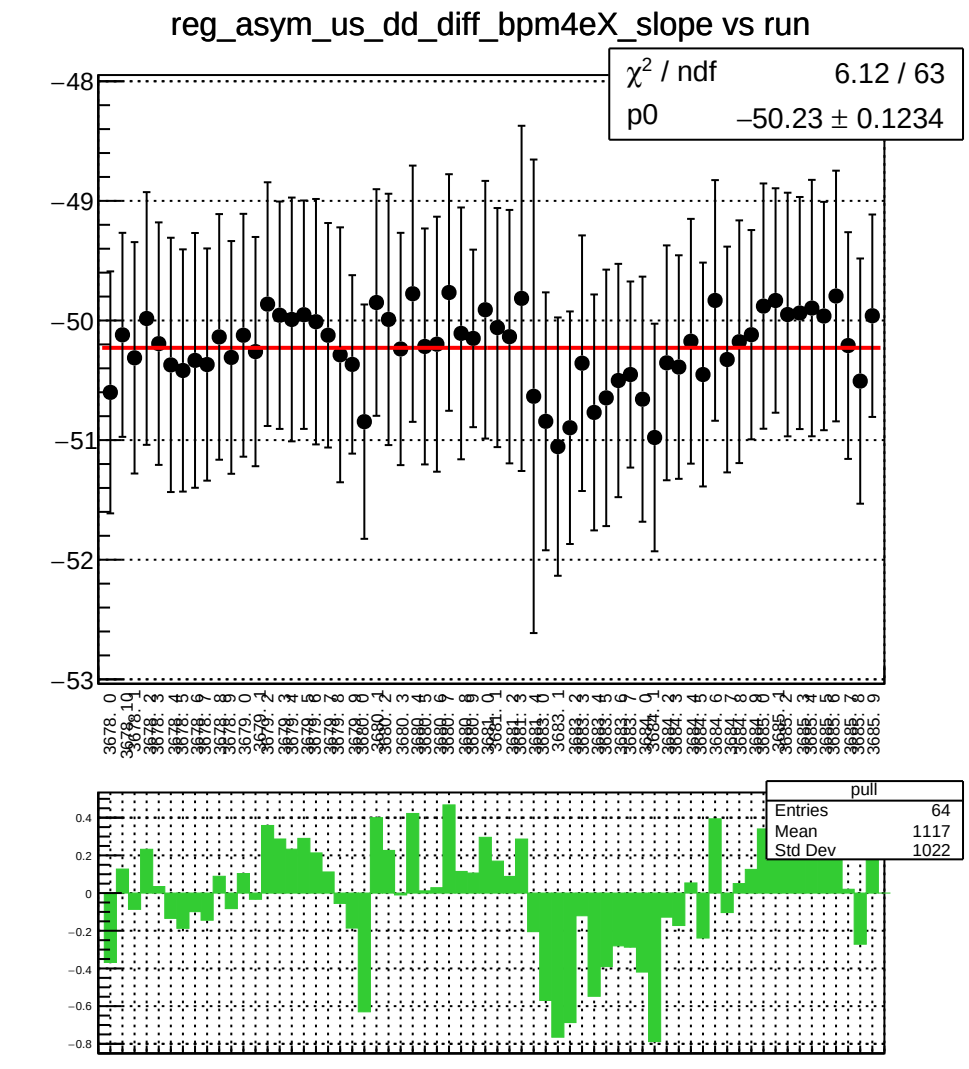

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.65 / 63
p0 3.212 ± 0.3942
pull
Entries 64
Mean −129.5
Std Dev 159.8
pull1D
Entries 64
Mean 0.002858
Std Dev 0.4266

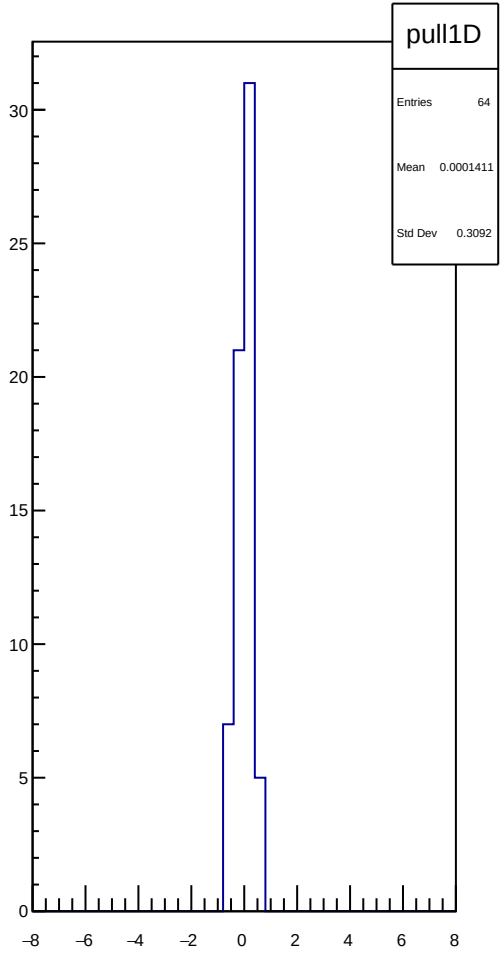

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 44.92 / 63
p0 −48.06 ± 0.06733
pull
Entries 64
Mean 535.2
Std Dev 499.6
pull1D
Entries 64
Mean −0.01276
Std Dev 0.8376

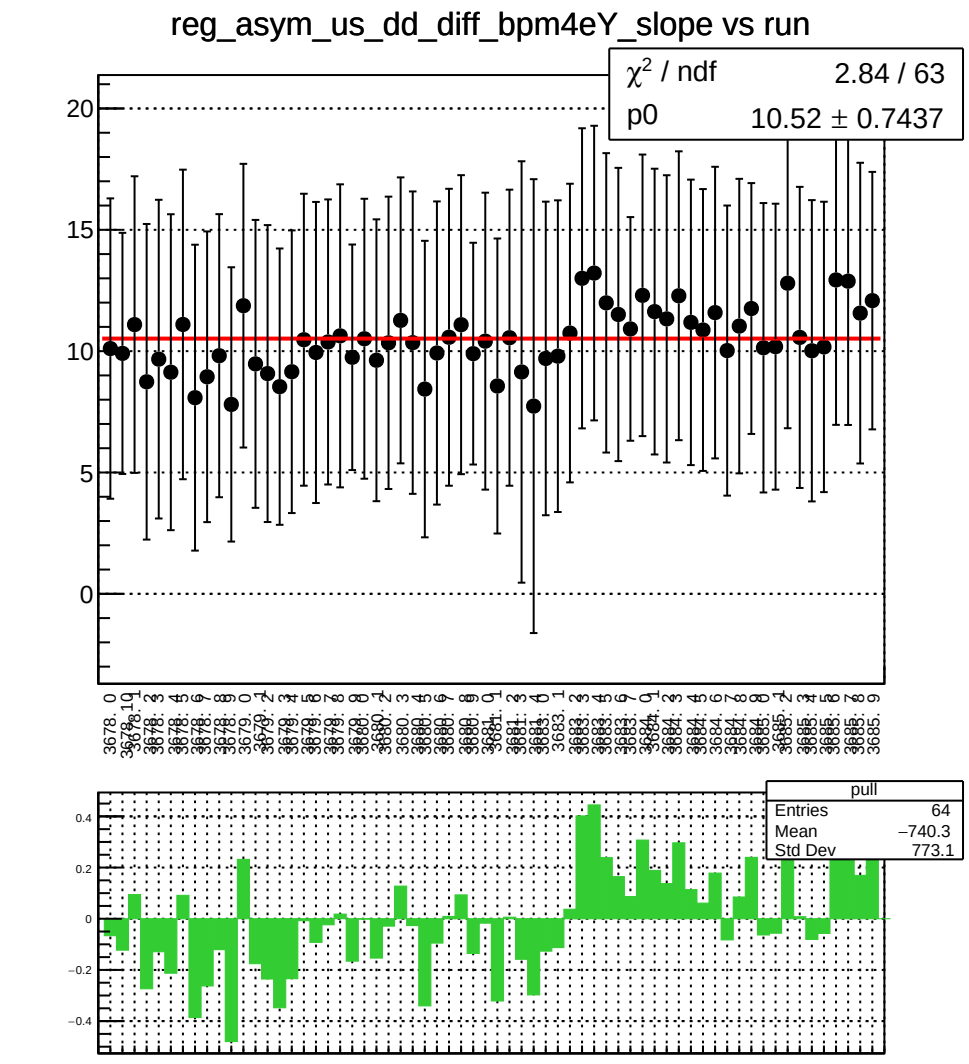

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.749 / 63
p0 23.17 ± 0.628
pull
Entries 64
Mean −166.2
Std Dev 187.6

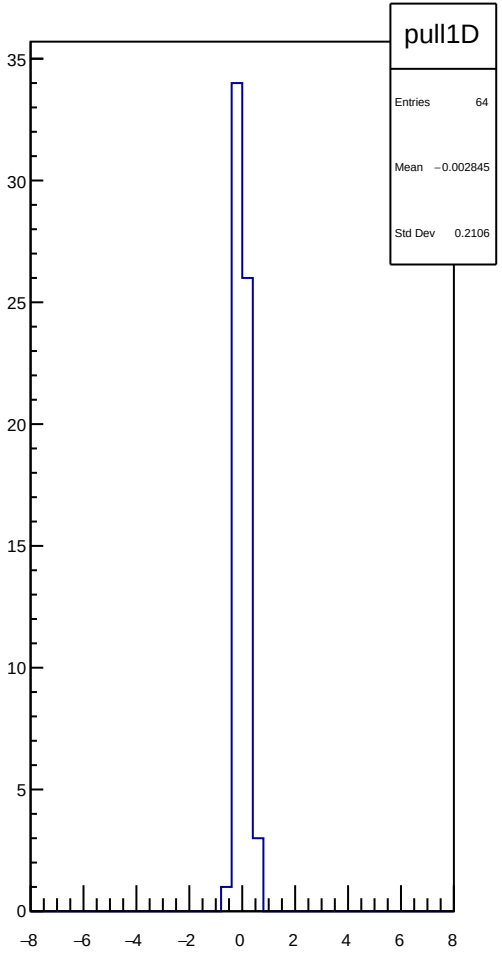

pull1D
Entries 64
Mean −0.002746
Std Dev 0.242

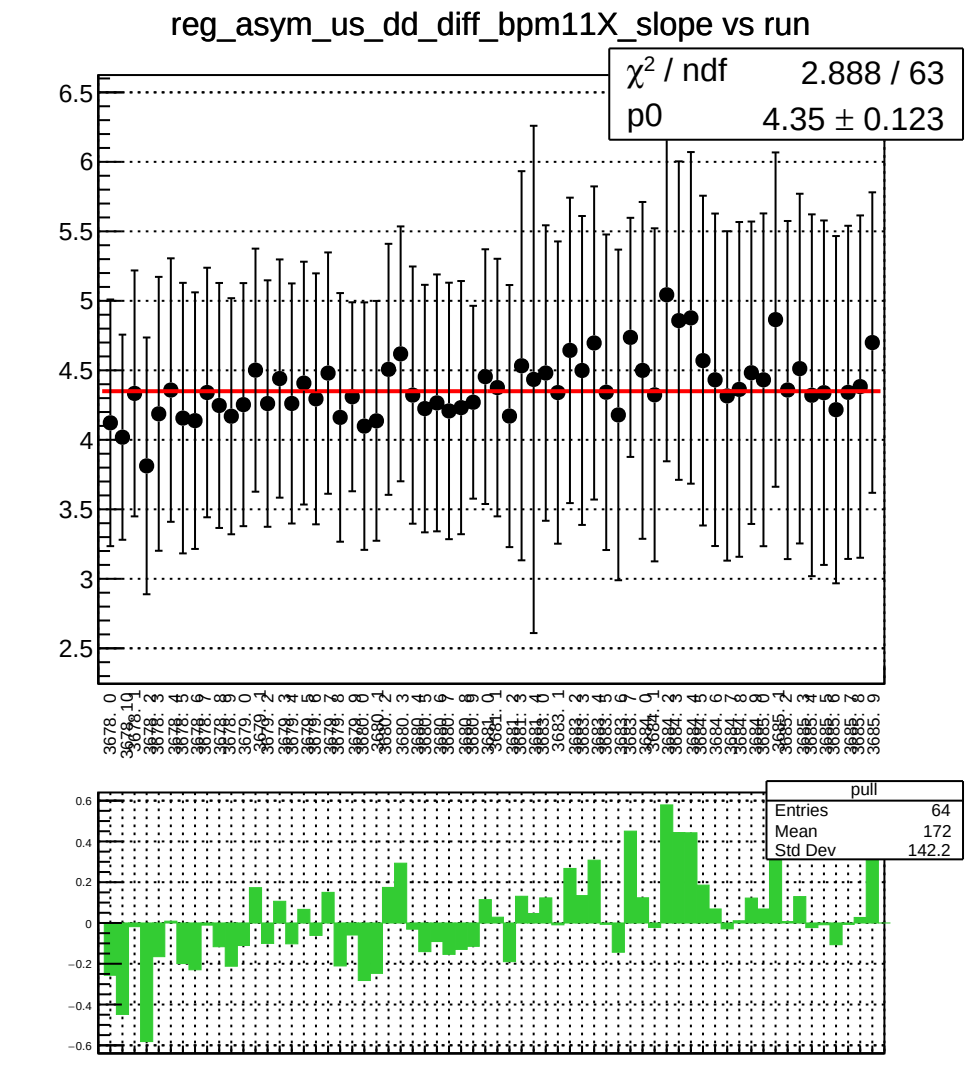

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.859 / 63
p0 −6.29 ± 0.4765
pull
Entries 64
Mean −700.6
Std Dev 733.6
pull1D
Entries 64
Mean 0.00288
Std Dev 0.2113

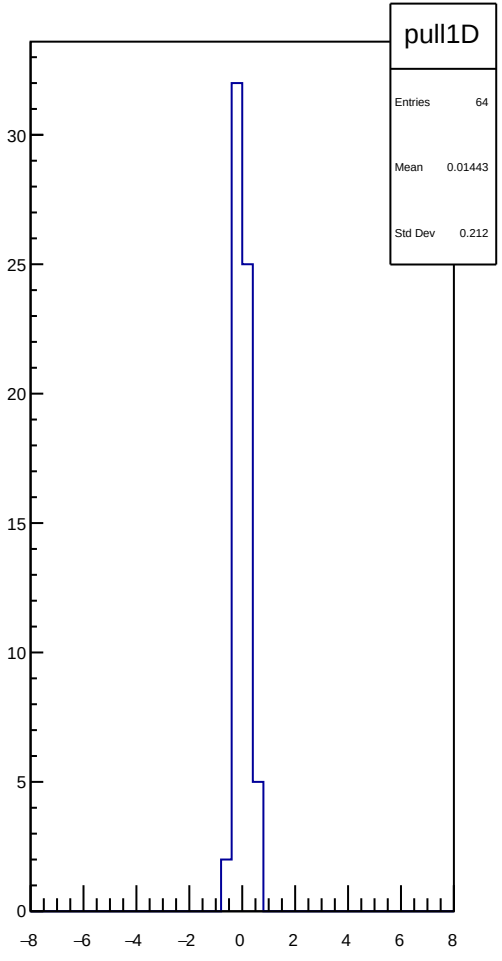

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.12 / 63
p0 −50.23 ± 0.1234
−48
−49
−50
−51
−52
−53
pull
Entries 64
Mean 1117
Std Dev 1022
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

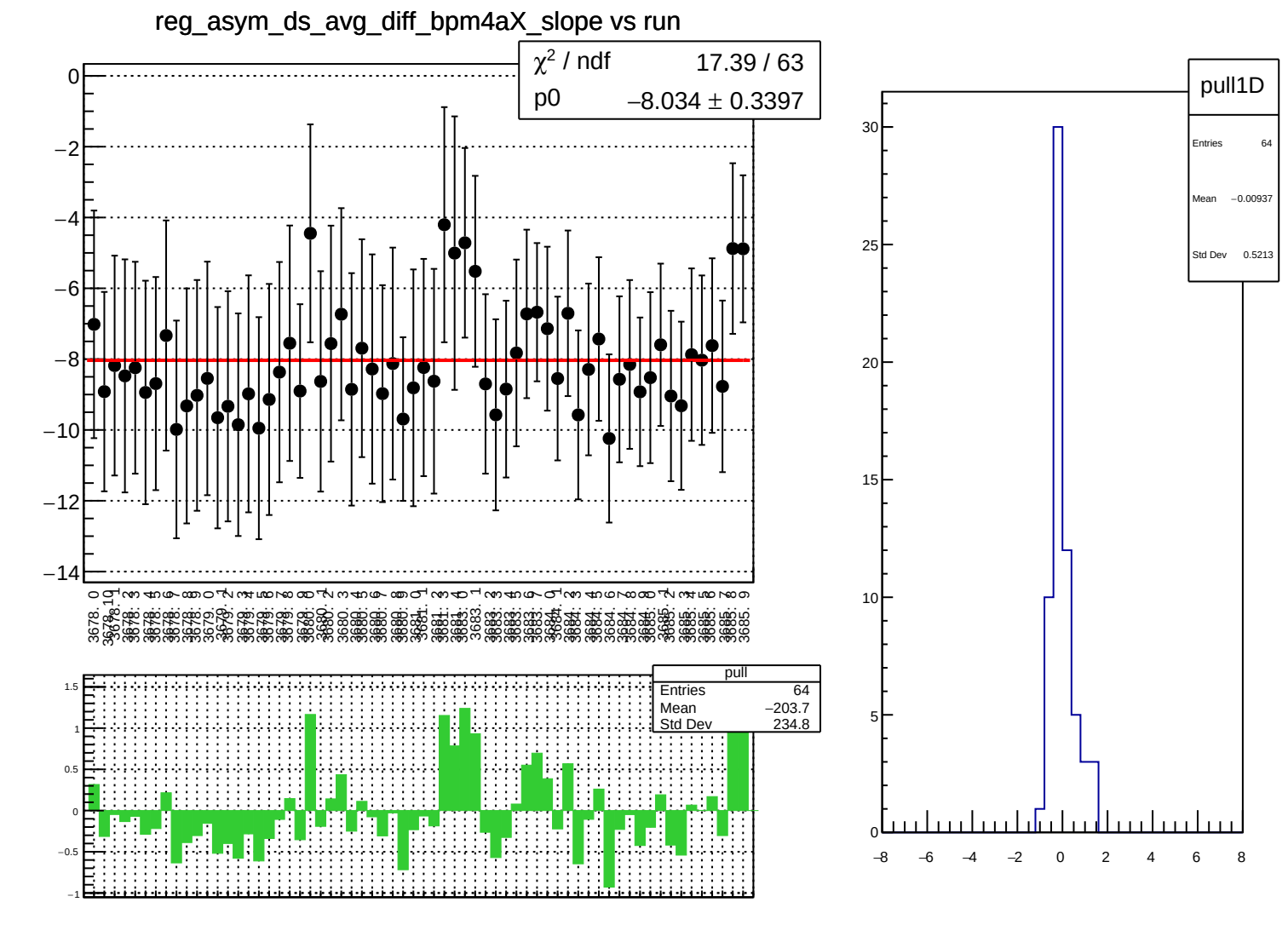

pull1D
Entries 64
Mean 0.0001411
Std Dev 0.3092
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

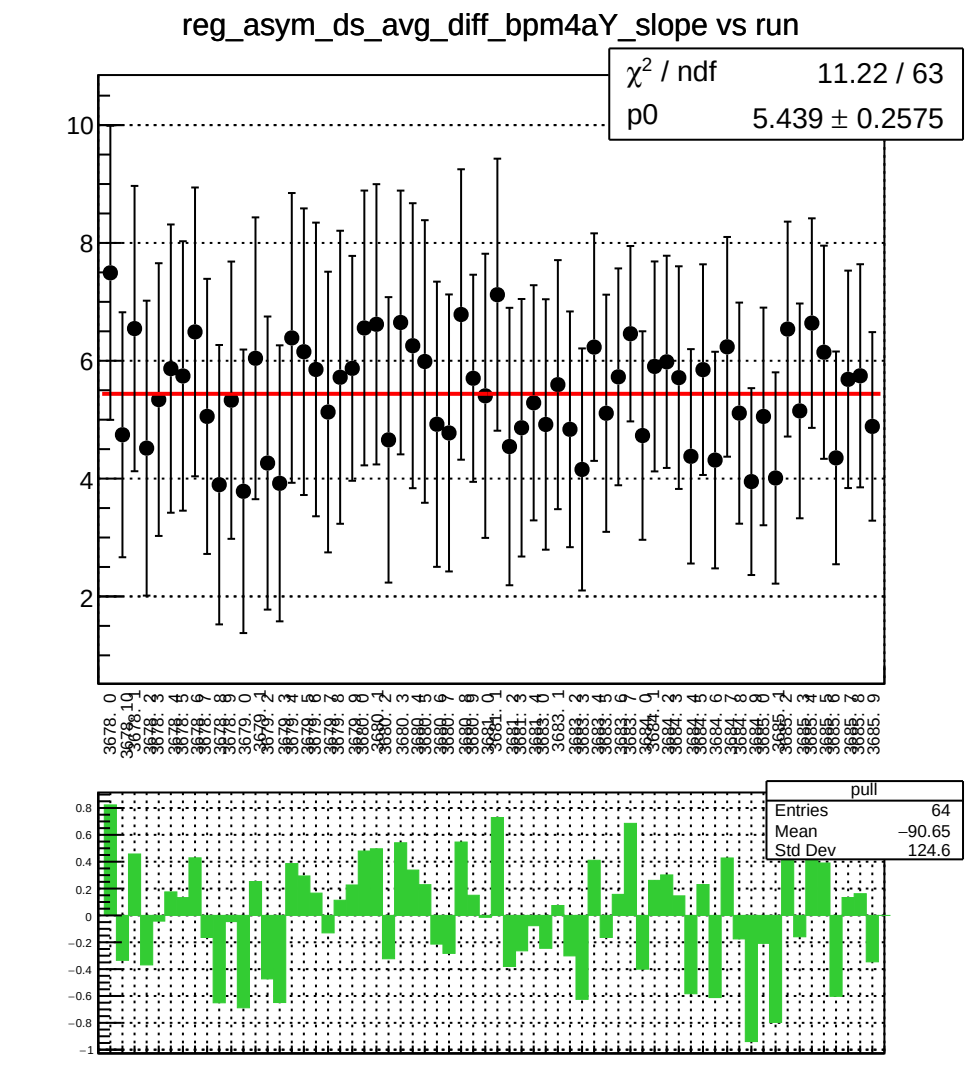

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.84 / 63
p0 10.52 ± 0.7437
pull
Entries 64
Mean −740.3
Std Dev 773.1

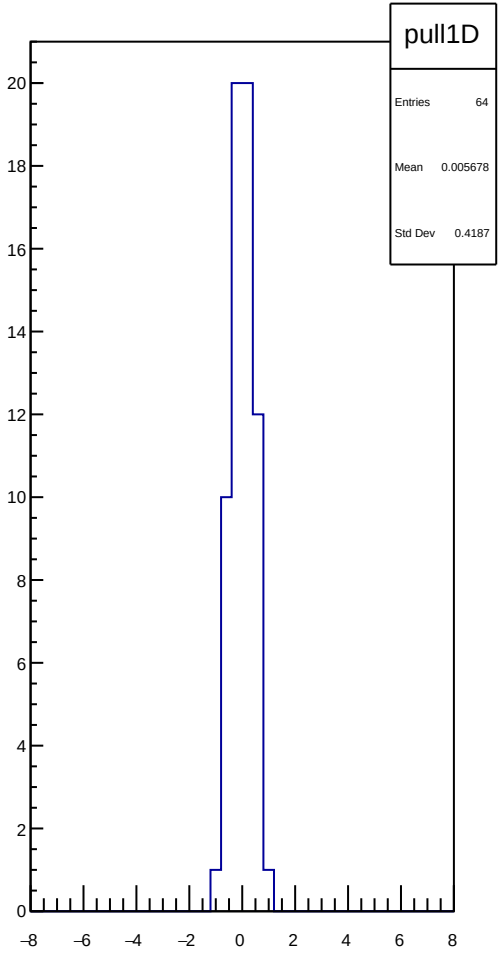

pull1D
Entries 64
Mean −0.002845
Std Dev 0.2106

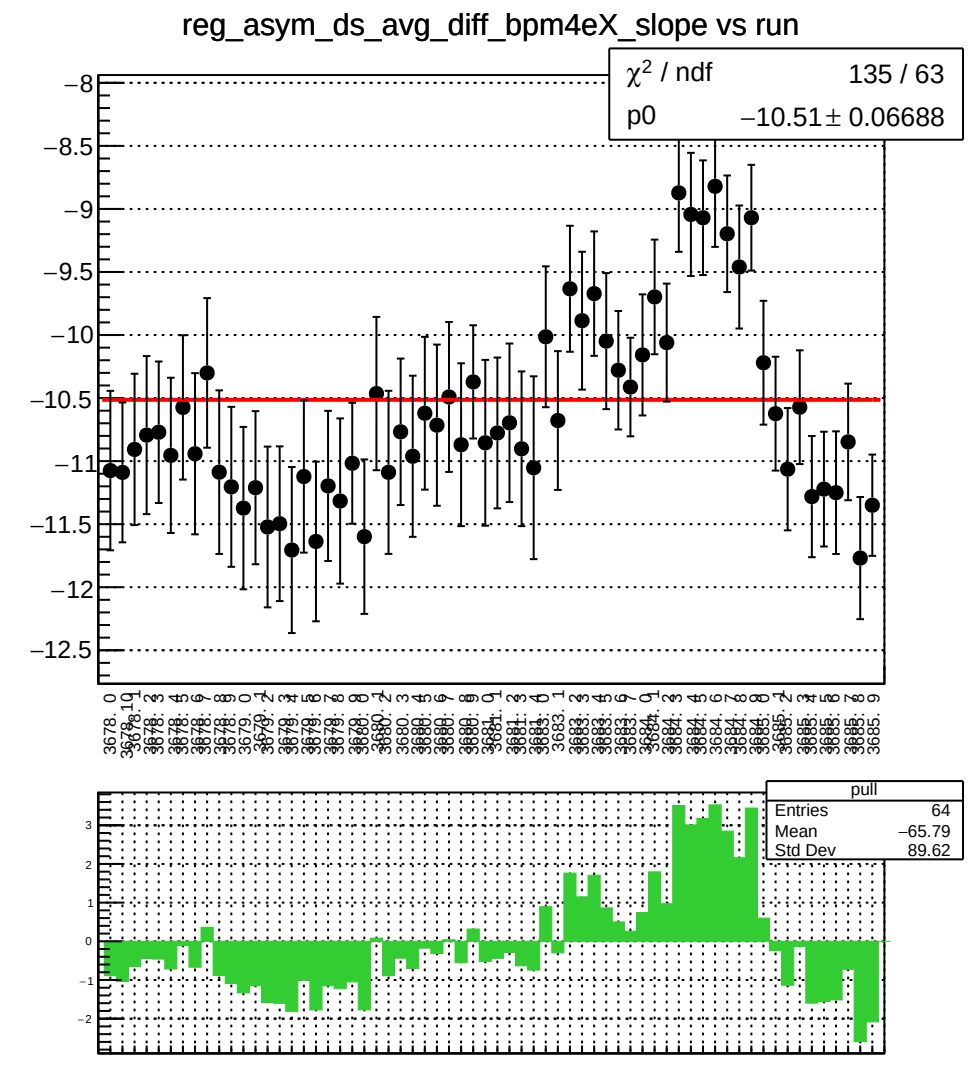

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 2.888 / 63
p0 4.35 ± 0.123
pull
Entries 64
Mean 172
Std Dev 142.2

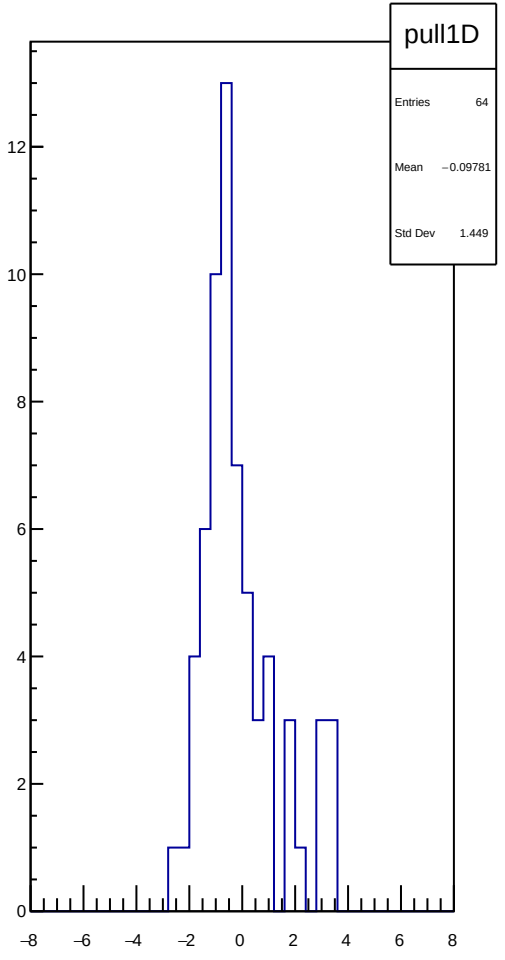

pull1D
Entries 64
Mean 0.01443
Std Dev 0.212

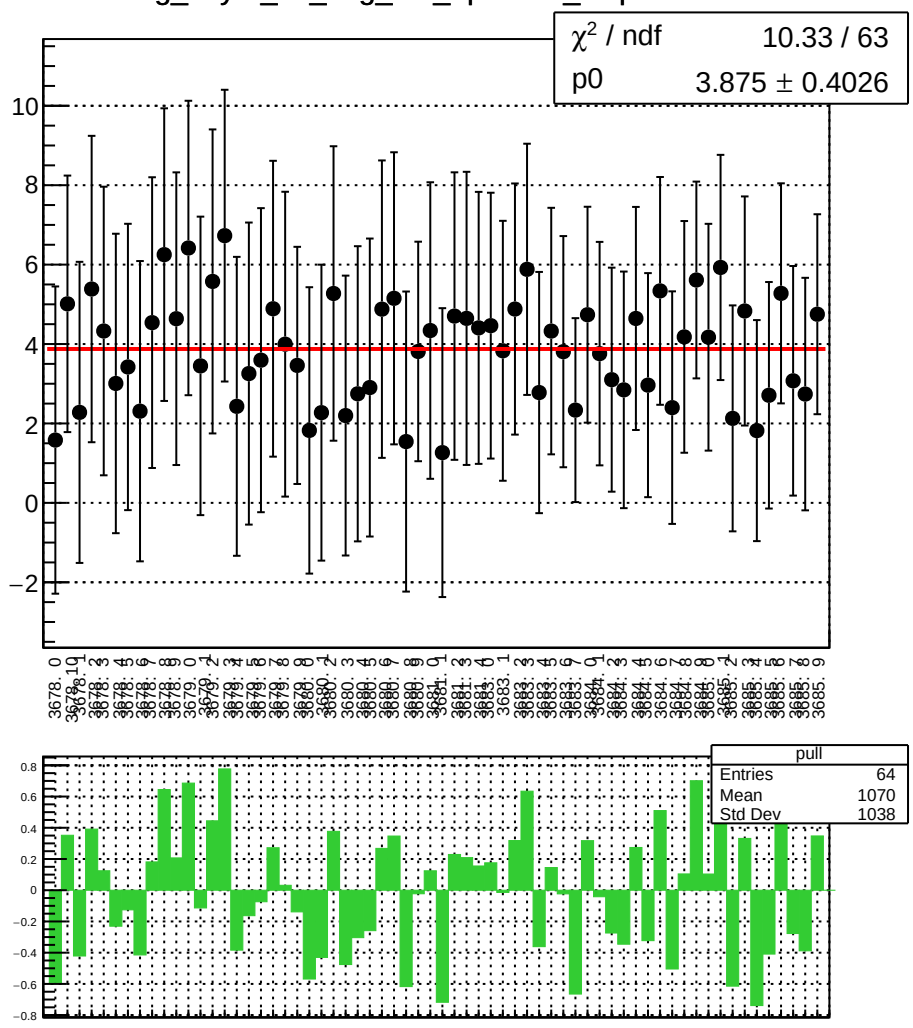

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 17.39 / 63
p0 −8.034 ± 0.3397
pull
Entries 64
Mean −203.7
Std Dev 234.8
pull1D
Entries 64
Mean −0.00937
Std Dev 0.5213

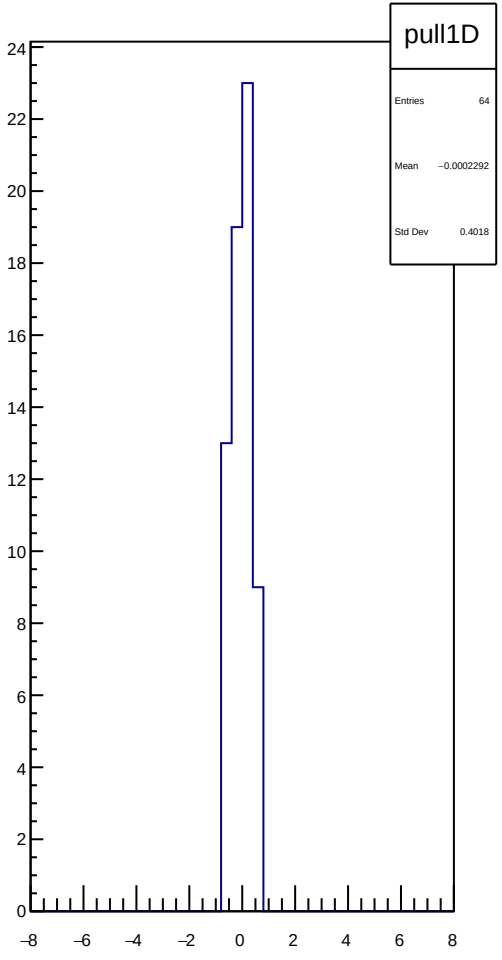

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.22 / 63
p0 5.439 ± 0.2575
pull
Entries 64
Mean −90.65
Std Dev 124.6

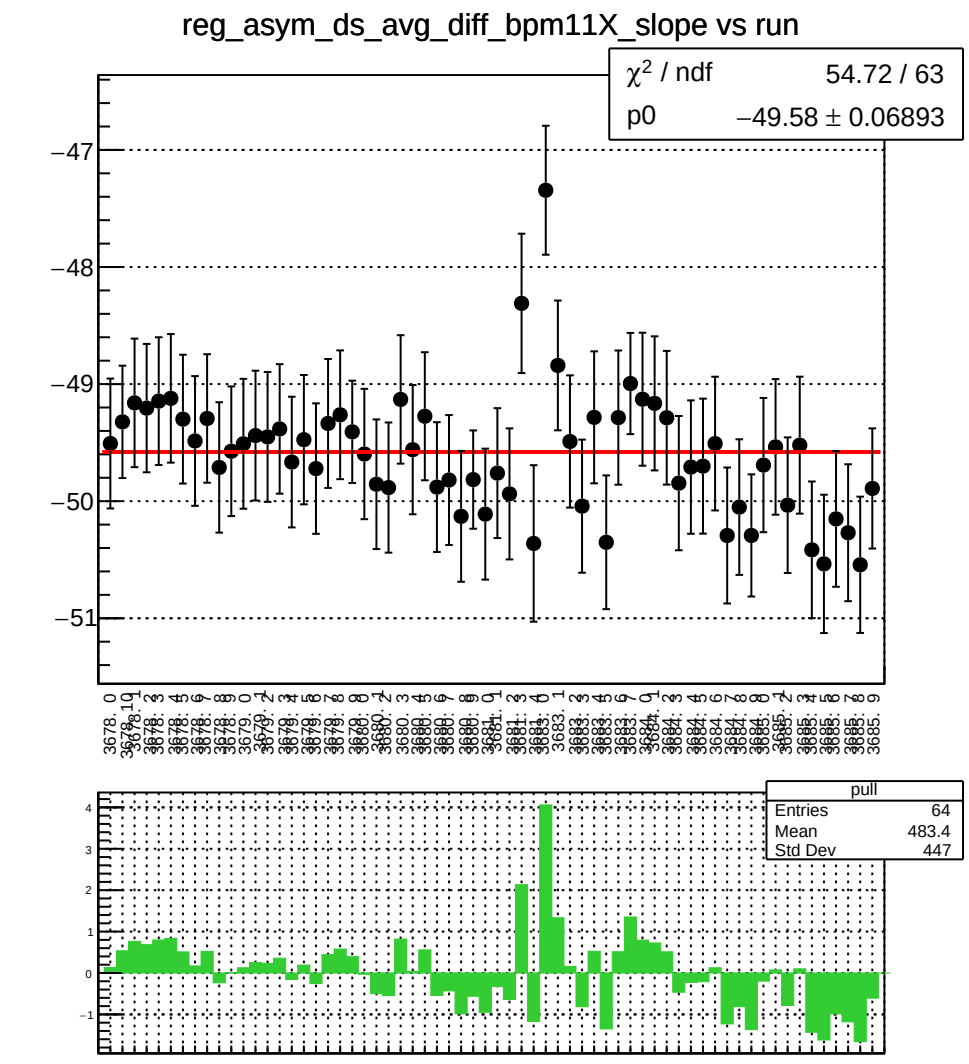

pull1D
Entries 64
Mean 0.005678
Std Dev 0.4187

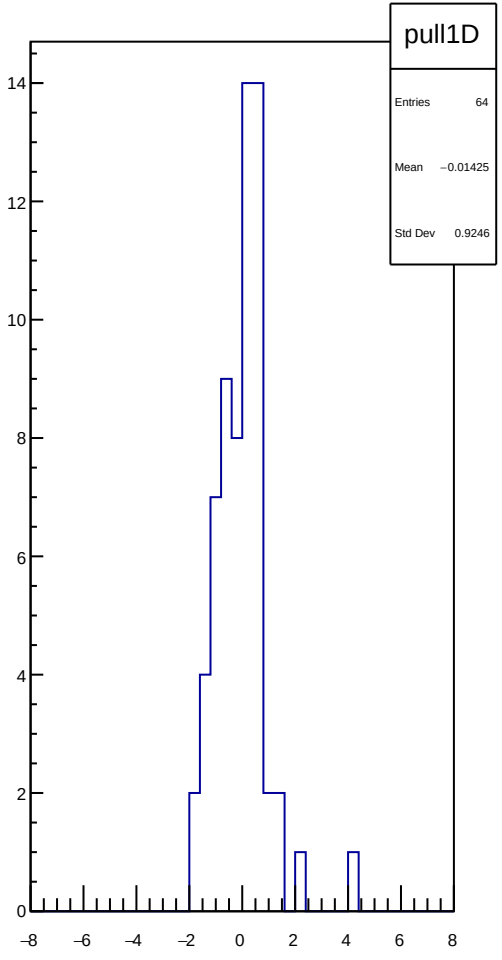

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 135 / 63
p0 −10.51 ± 0.06688
pull
Entries 64
Mean −65.79
Std Dev 89.62

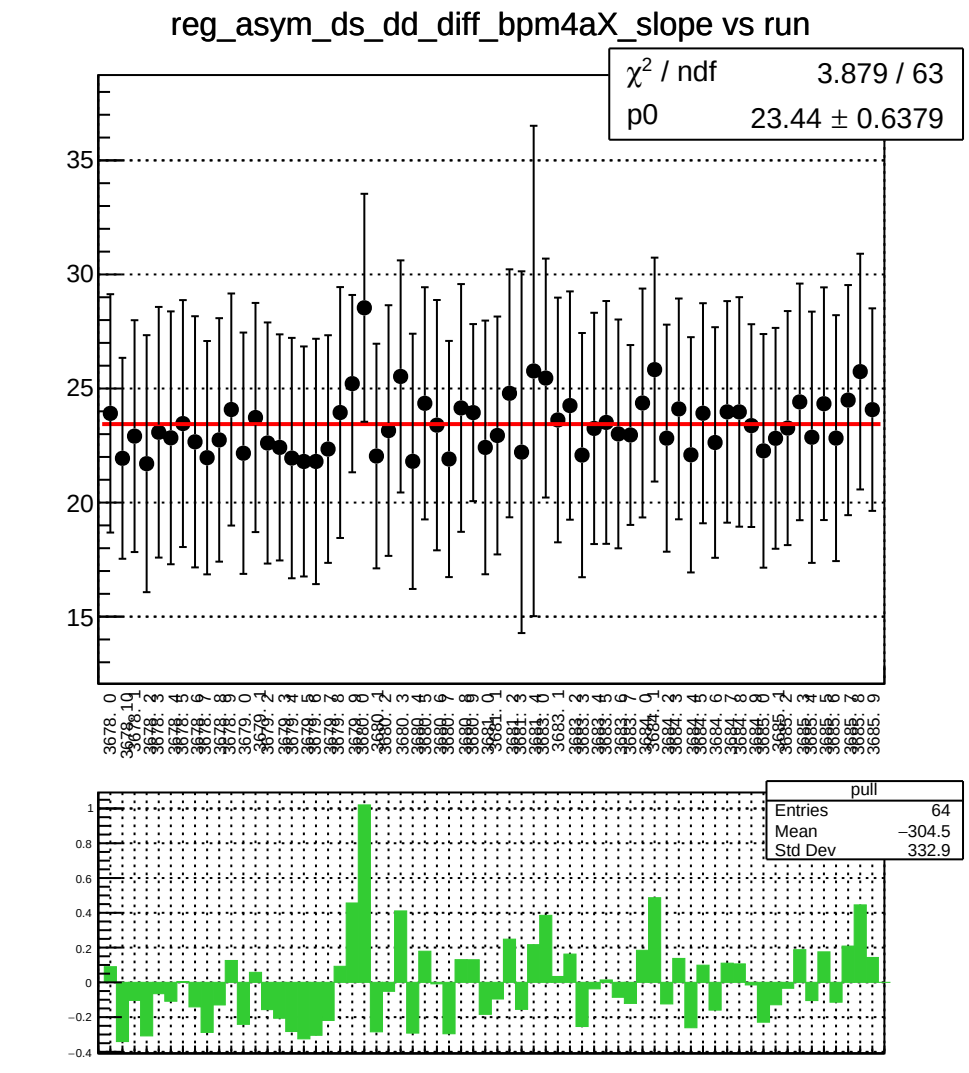

pull1D
Entries 64
Mean −0.09781
Std Dev 1.449

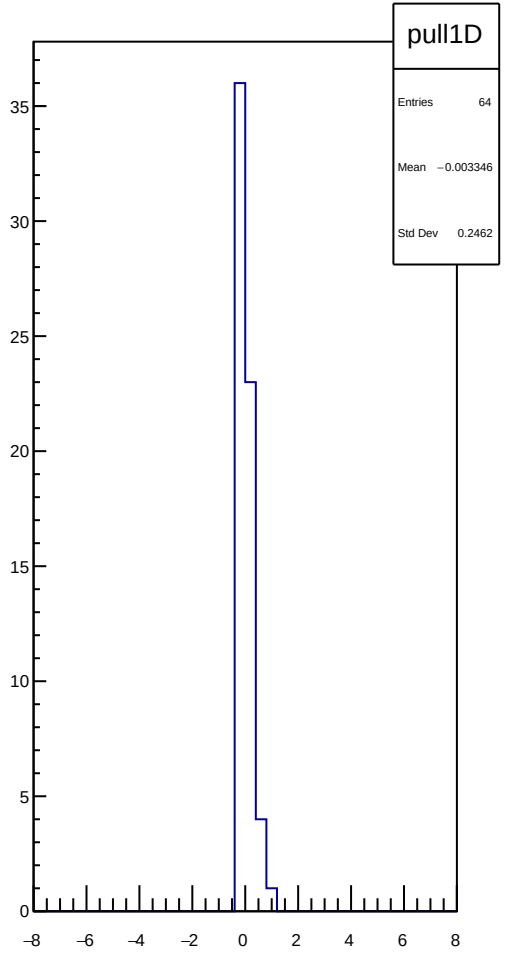

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.33 / 63
p0 3.875 ± 0.4026
pull
Entries 64
Mean 1070
Std Dev 1038

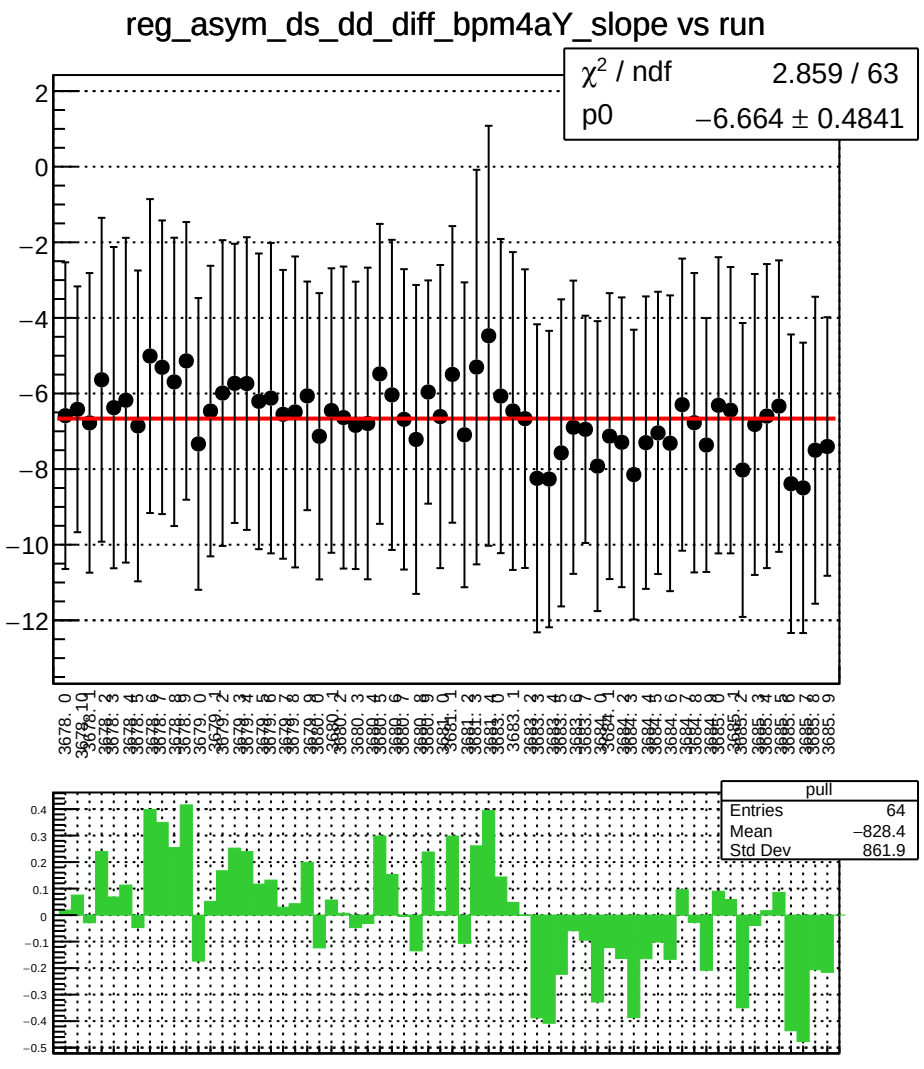

pull1D
Entries 64
Mean −0.0002292
Std Dev 0.4018

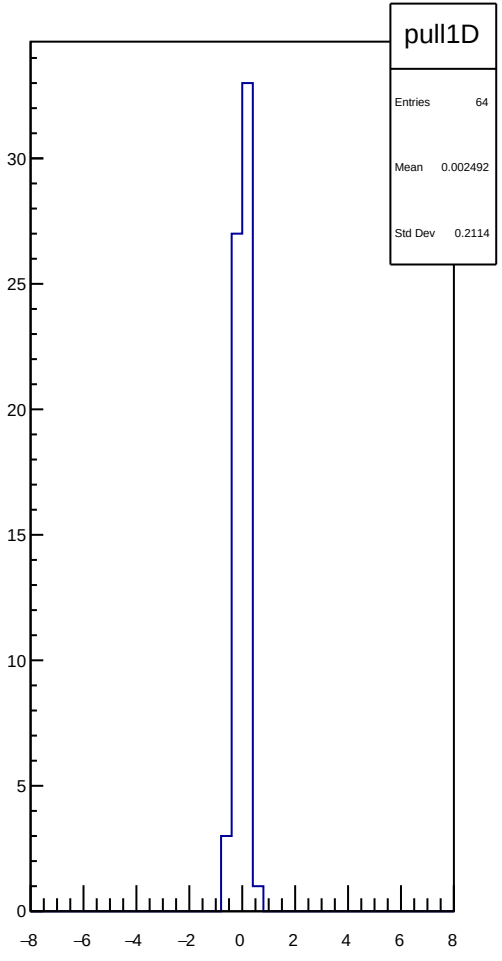

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 54.72 / 63
p0 −49.58 ± 0.06893
pull
Entries 64
Mean 483.4
Std Dev 447

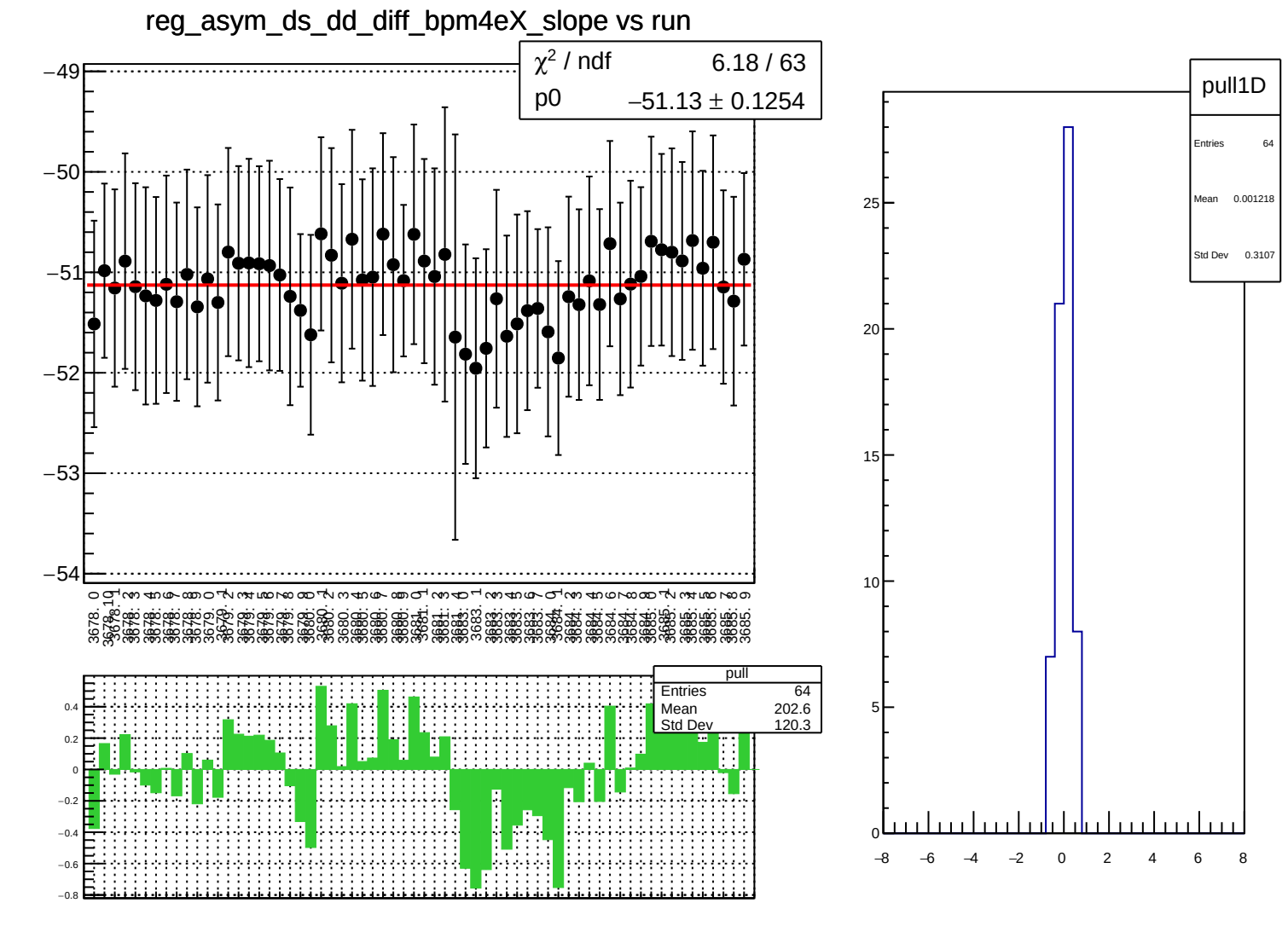

pull1D
Entries 64
Mean −0.01425
Std Dev 0.9246

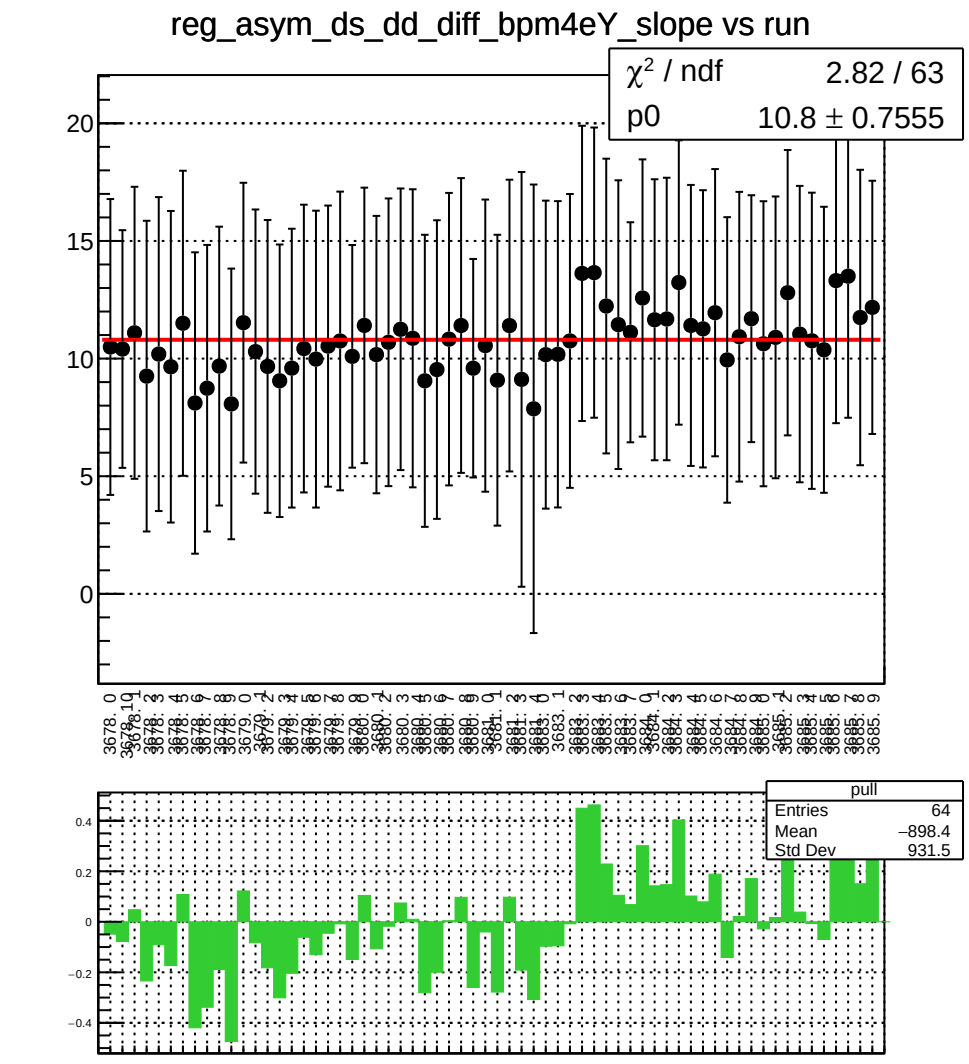

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 3.879 / 63
p0 23.44 ± 0.6379
pull
Entries 64
Mean −304.5
Std Dev 332.9

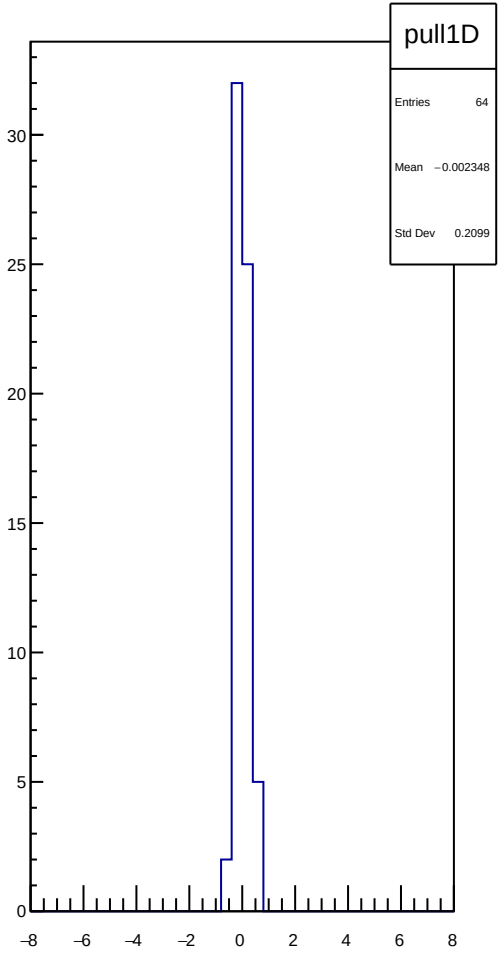

pull1D
Entries 64
Mean −0.003346
Std Dev 0.2462

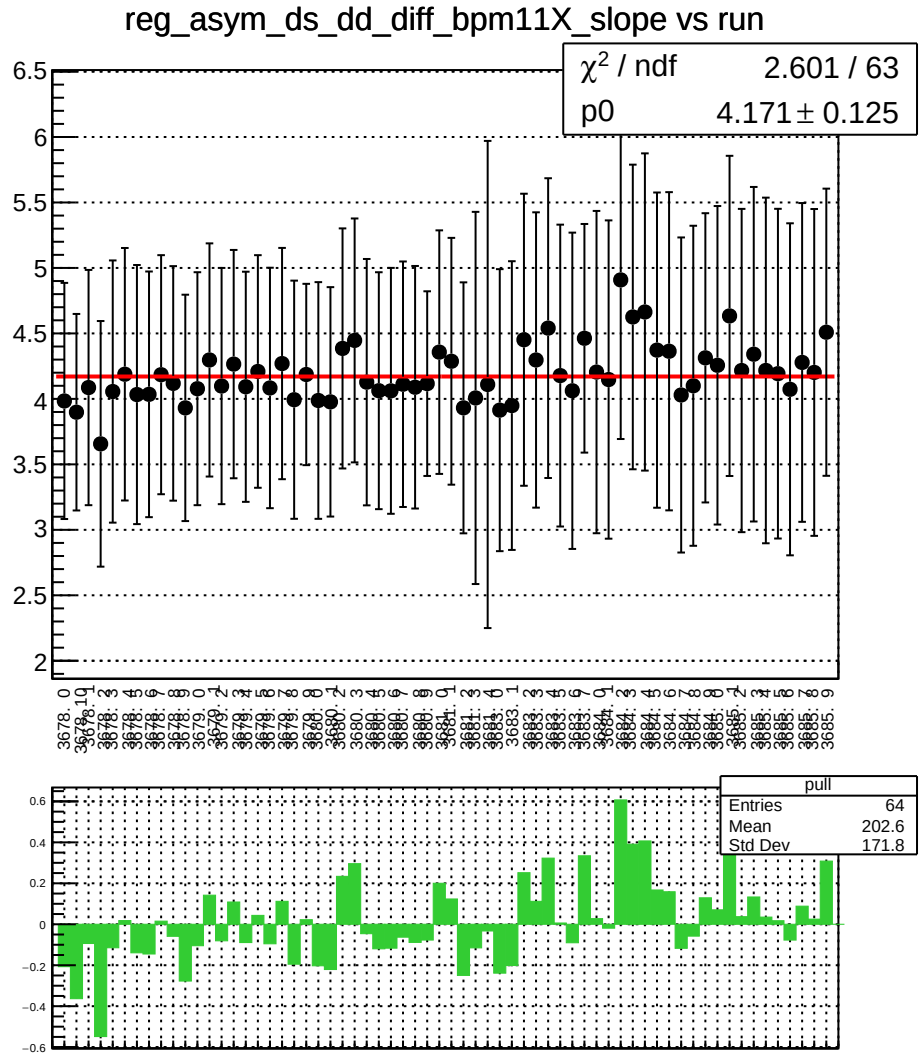

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.859 / 63
p0 −6.664 ± 0.4841
pull
Entries 64
Mean −828.4
Std Dev 861.9

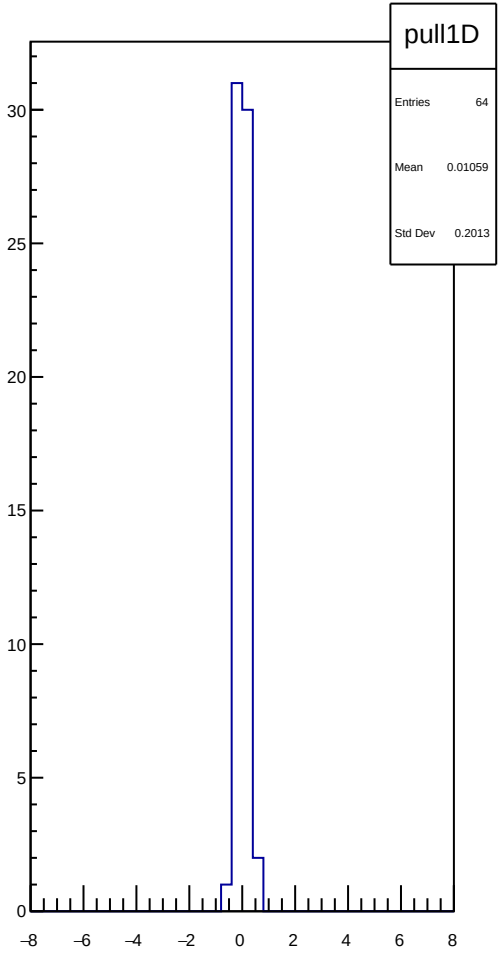

pull1D
Entries 64
Mean 0.002492
Std Dev 0.2114

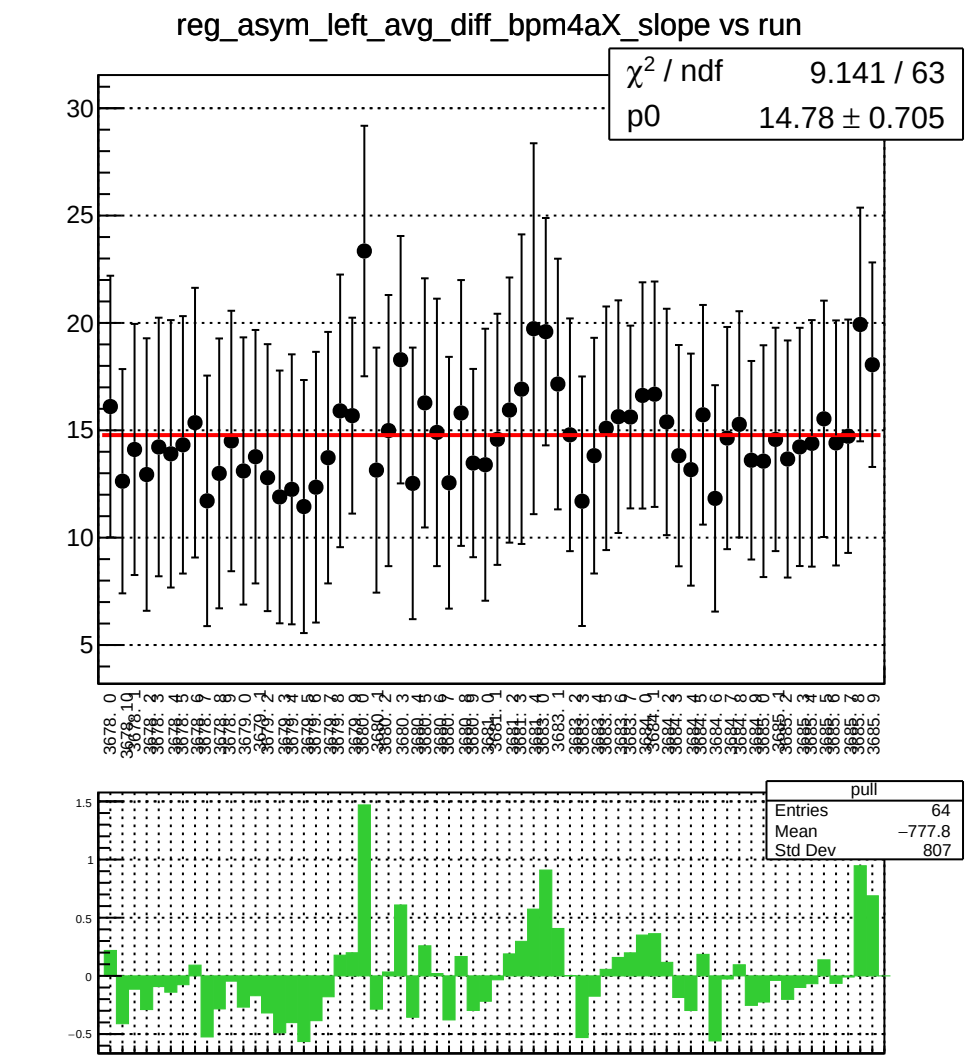

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.18 / 63
p0 −51.13 ± 0.1254
pull
Entries 64
Mean 202.6
Std Dev 120.3
pull1D
Entries 64
Mean 0.001218
Std Dev 0.3107

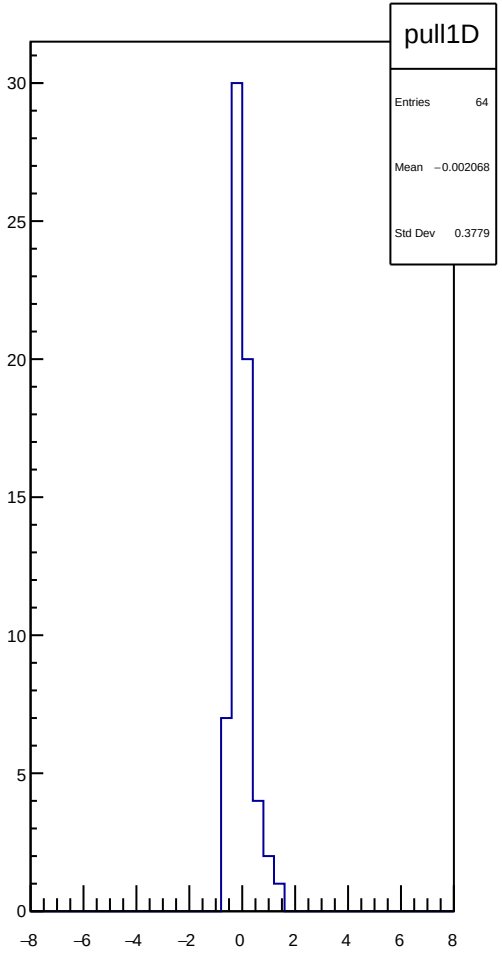

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.82 / 63
p0 10.8 ± 0.7555
pull
Entries 64
Mean −898.4
Std Dev 931.5

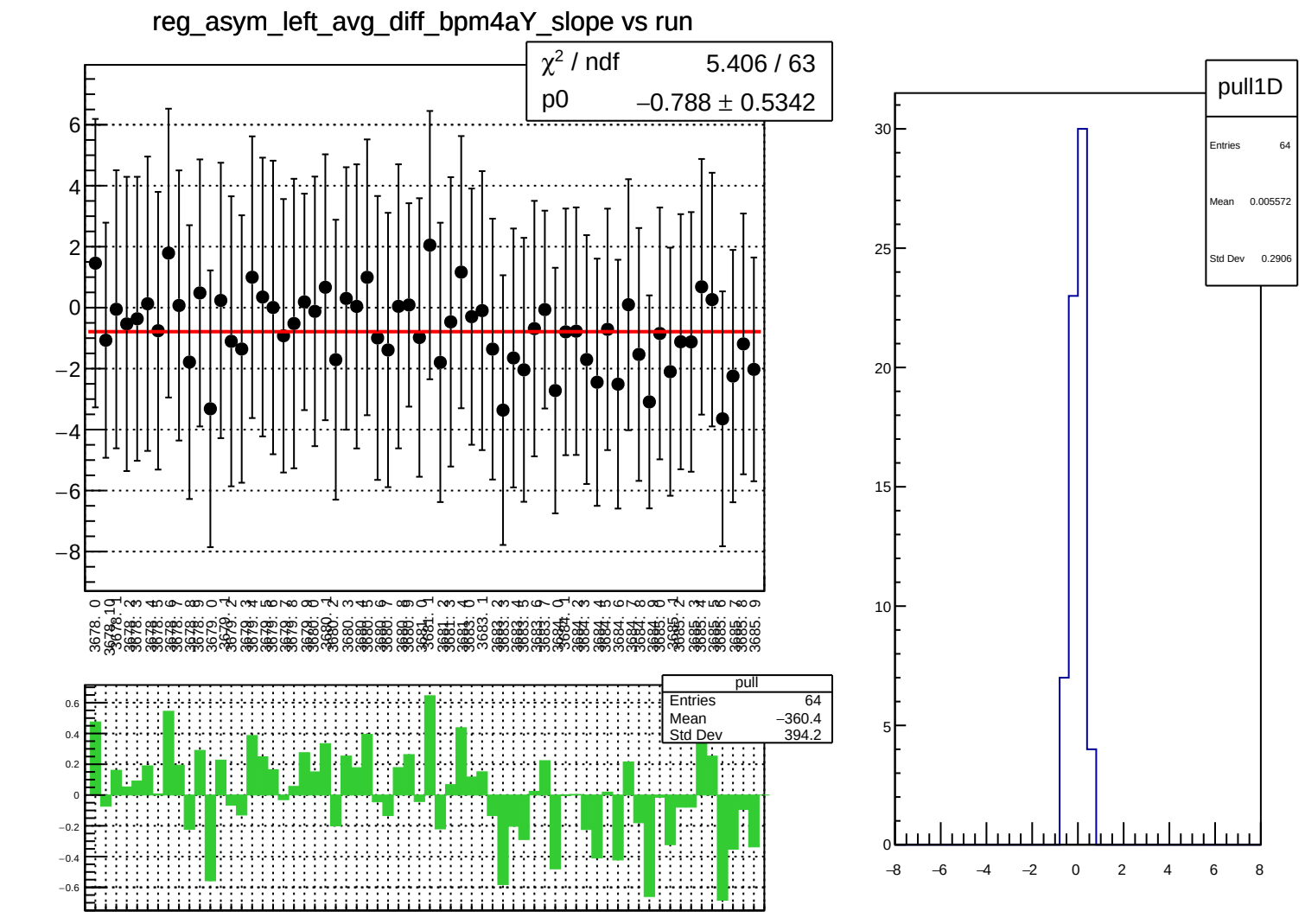

pull1D
Entries 64
Mean −0.002348
Std Dev 0.2099

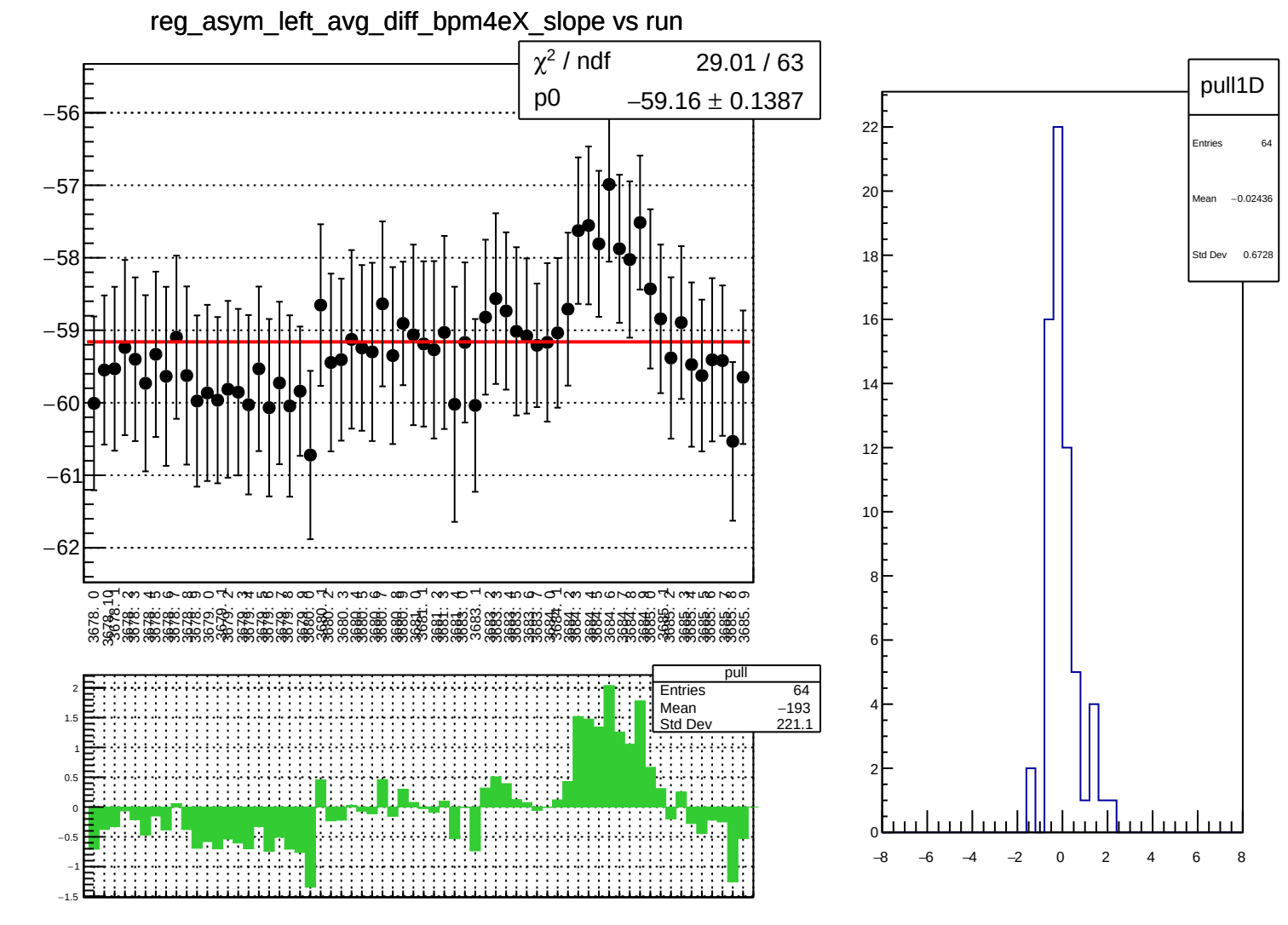

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 2.601 / 63
p0 4.171 ± 0.125
pull
Entries 64
Mean 202.6
Std Dev 171.8

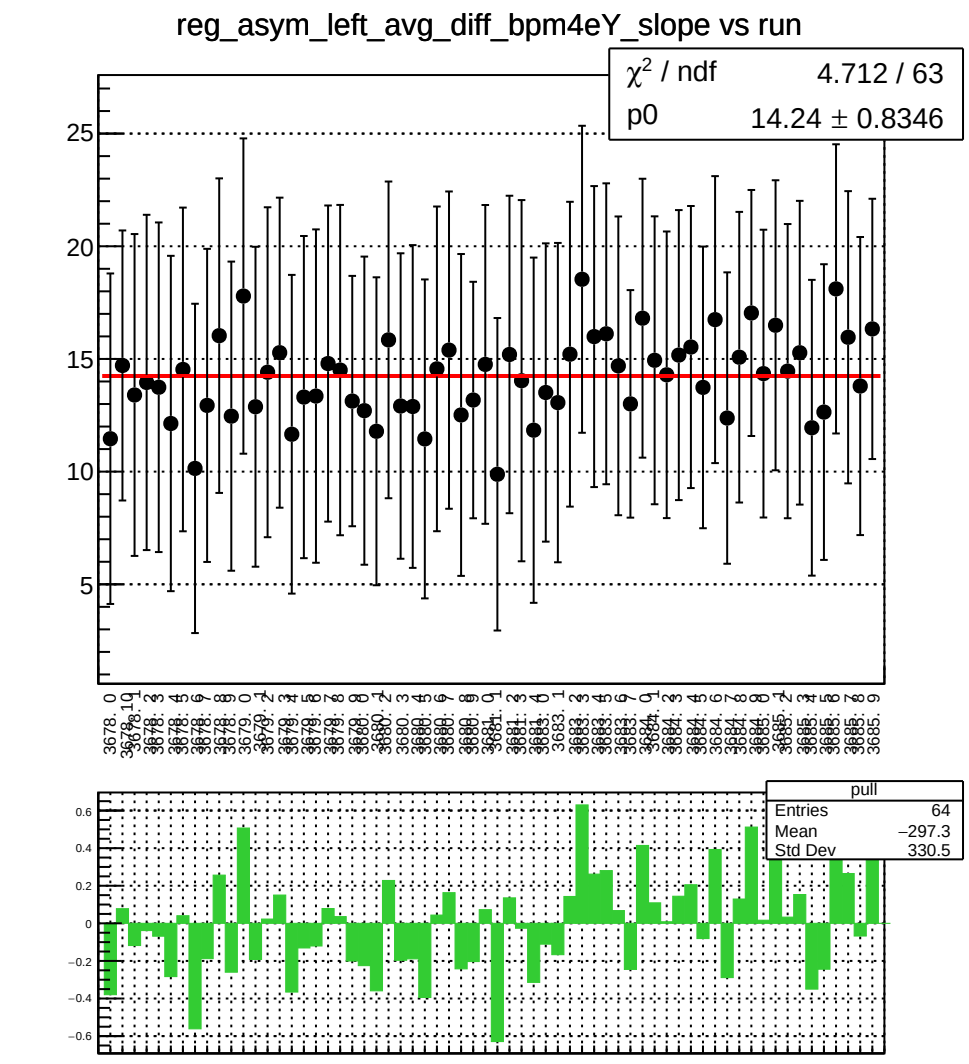

pull1D
Entries 64
Mean 0.01059
Std Dev 0.2013

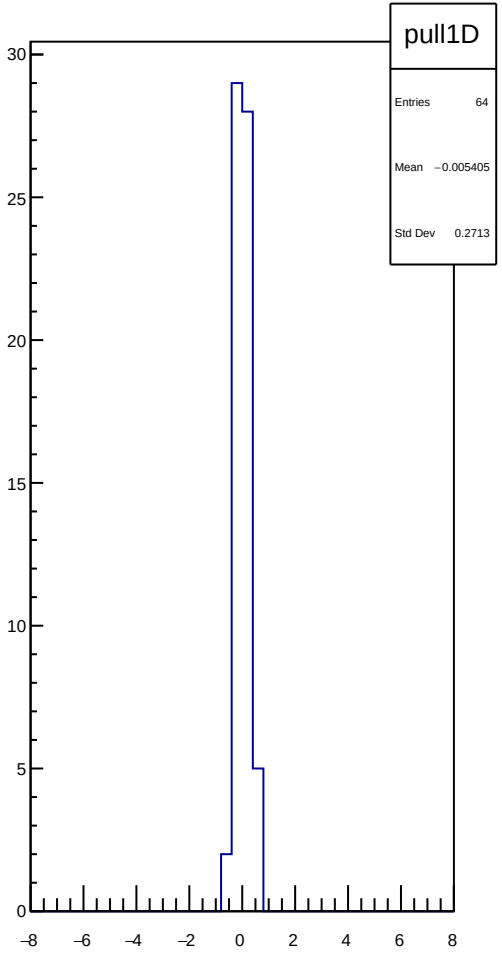

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 9.141 / 63
p0 14.78 ± 0.705
pull
Entries 64
Mean −777.8
Std Dev 807

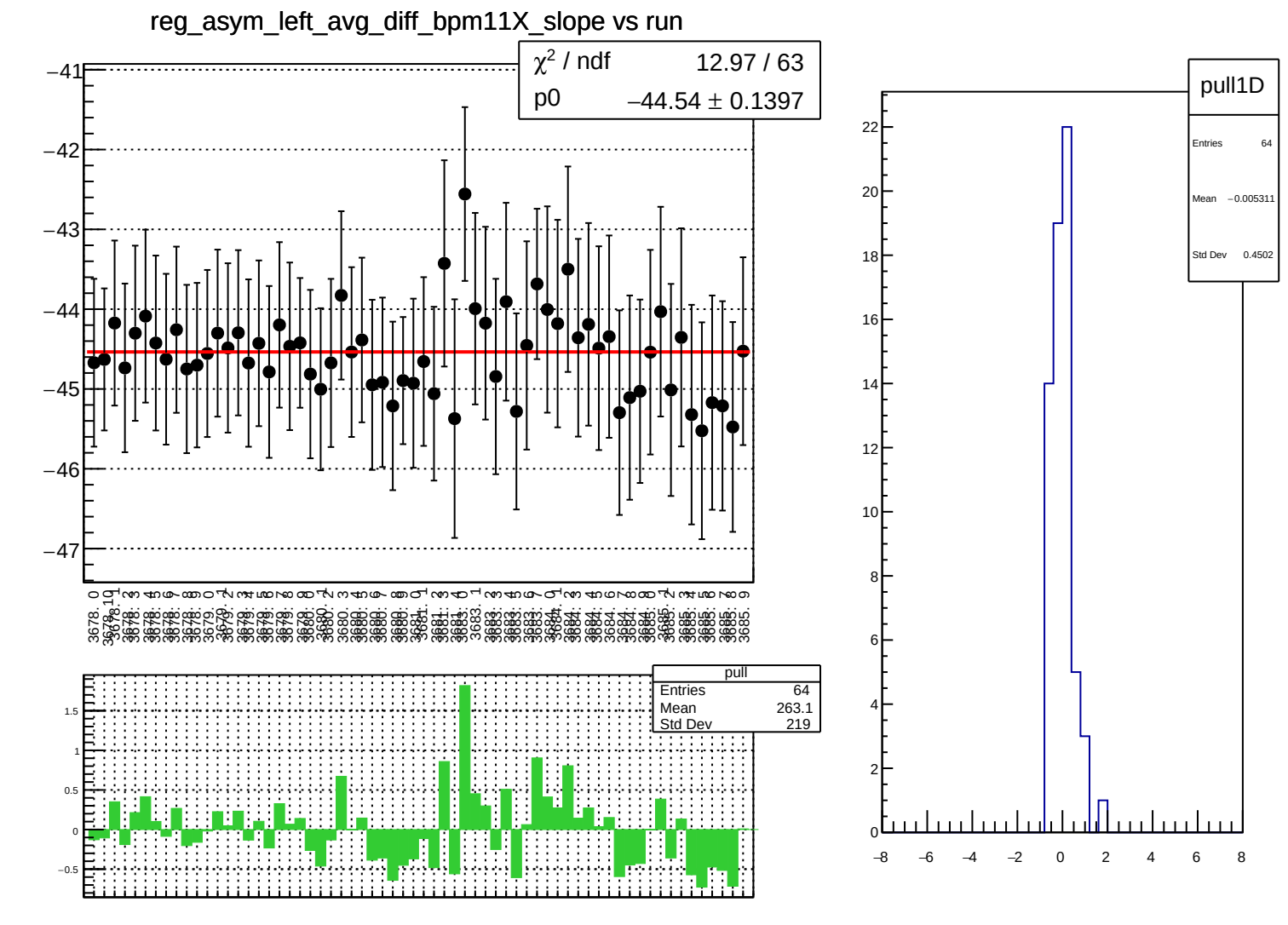

pull1D
Entries 64
Mean −0.002068
Std Dev 0.3779

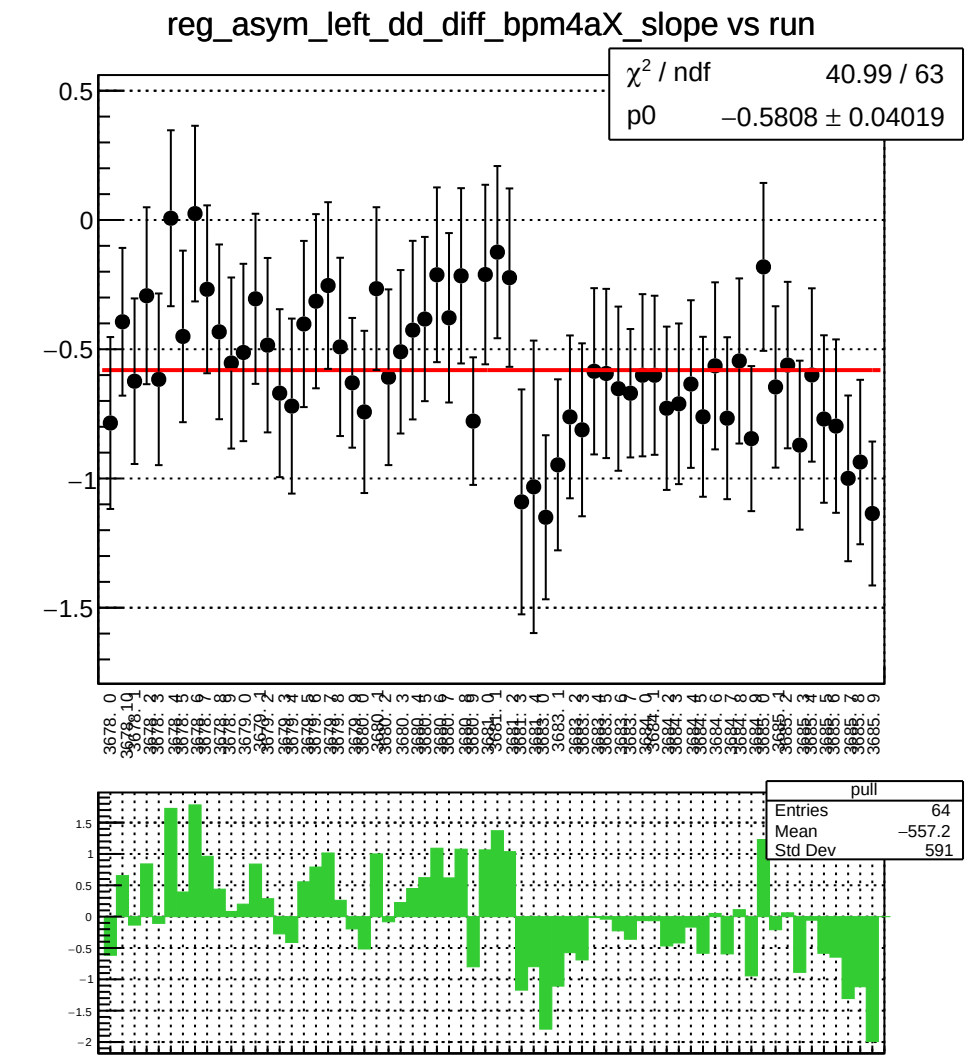

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.406 / 63
p0 −0.788 ± 0.5342
pull
Entries 64
Mean −360.4
Std Dev 394.2
pull1D
Entries 64
Mean 0.005572
Std Dev 0.2906

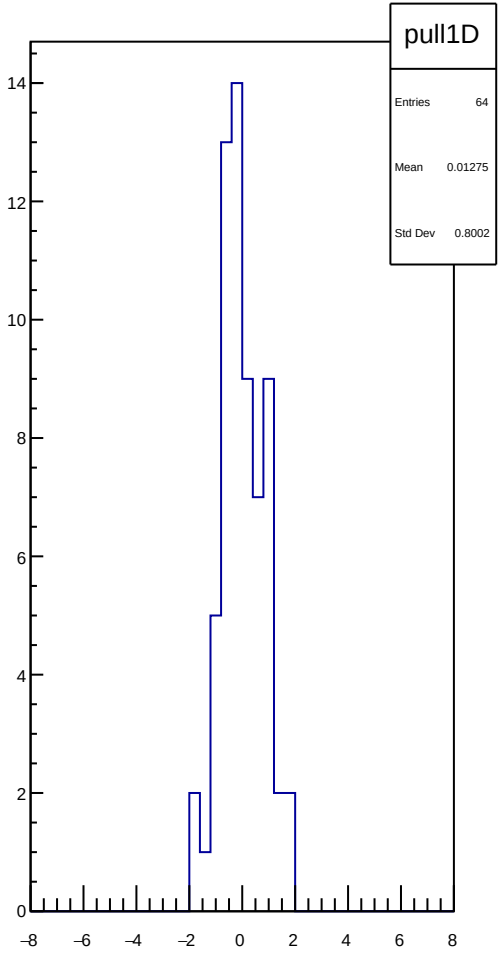

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.01 / 63
p0 −59.16 ± 0.1387
pull
Entries 64
Mean −193
Std Dev 221.1
pull1D
Entries 64
Mean −0.02436
Std Dev 0.6728

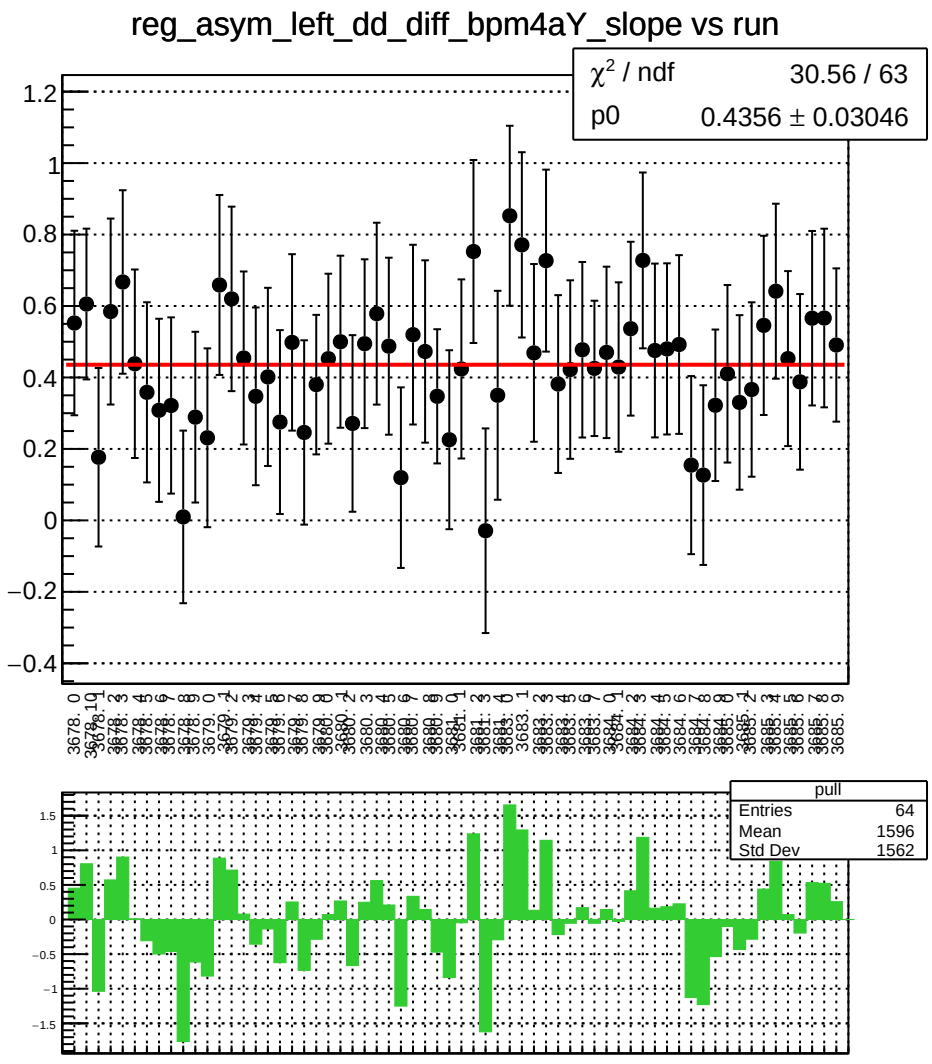

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.712 / 63
p0 14.24 ± 0.8346
pull
Entries 64
Mean −297.3
Std Dev 330.5

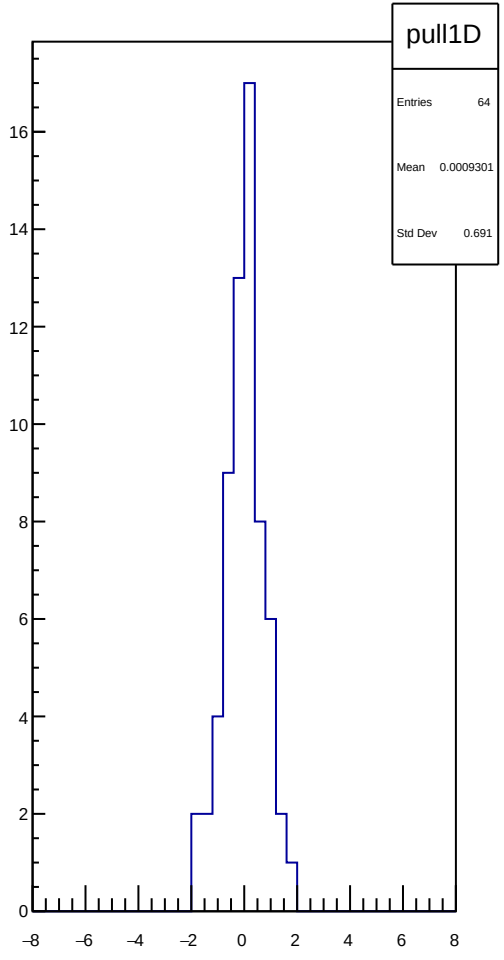

pull1D
Entries 64
Mean −0.005405
Std Dev 0.2713

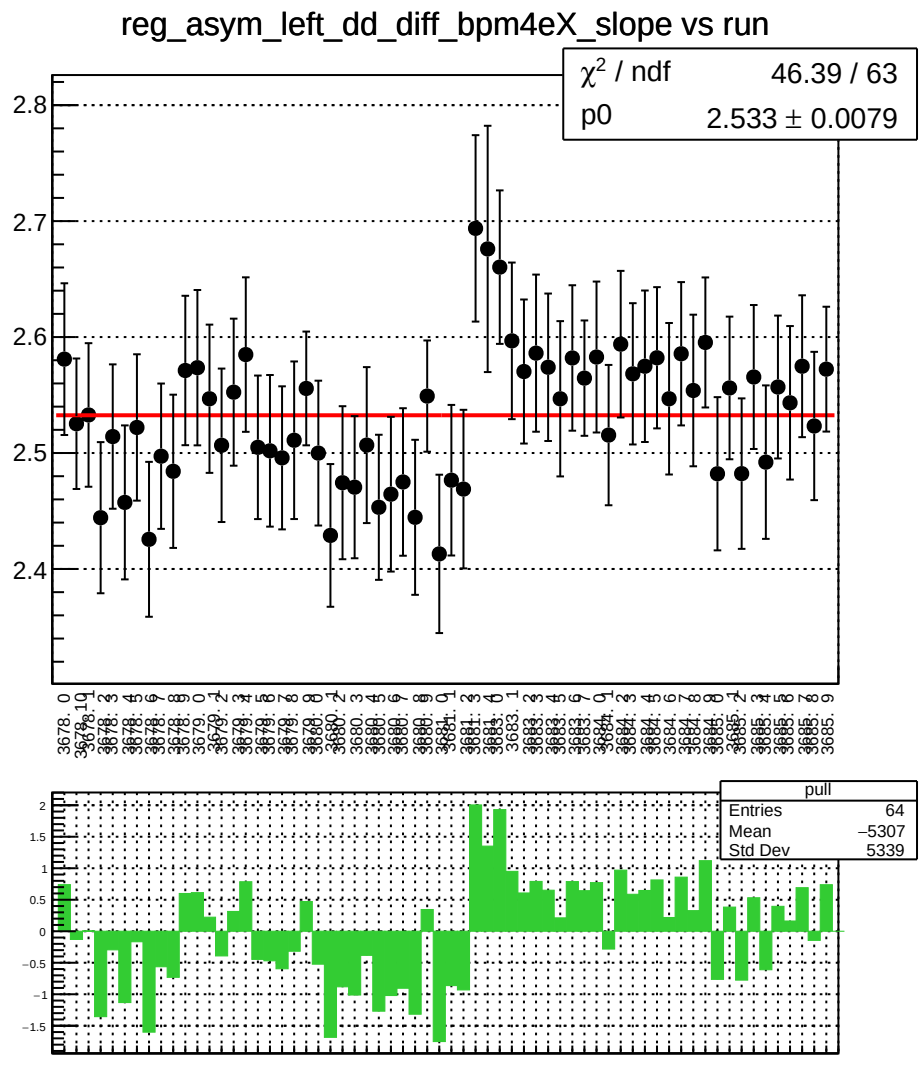

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 12.97 / 63
p0 −44.54 ± 0.1397
pull
Entries 64
Mean 263.1
Std Dev 219
pull1D
Entries 64
Mean −0.005311
Std Dev 0.4502

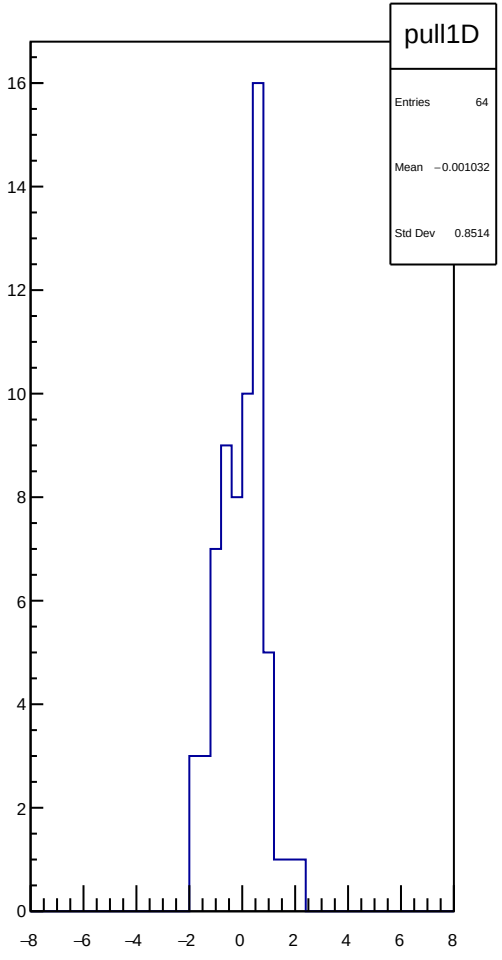

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 40.99 / 63
p0 −0.5808 ± 0.04019
pull
Entries 64
Mean −557.2
Std Dev 591

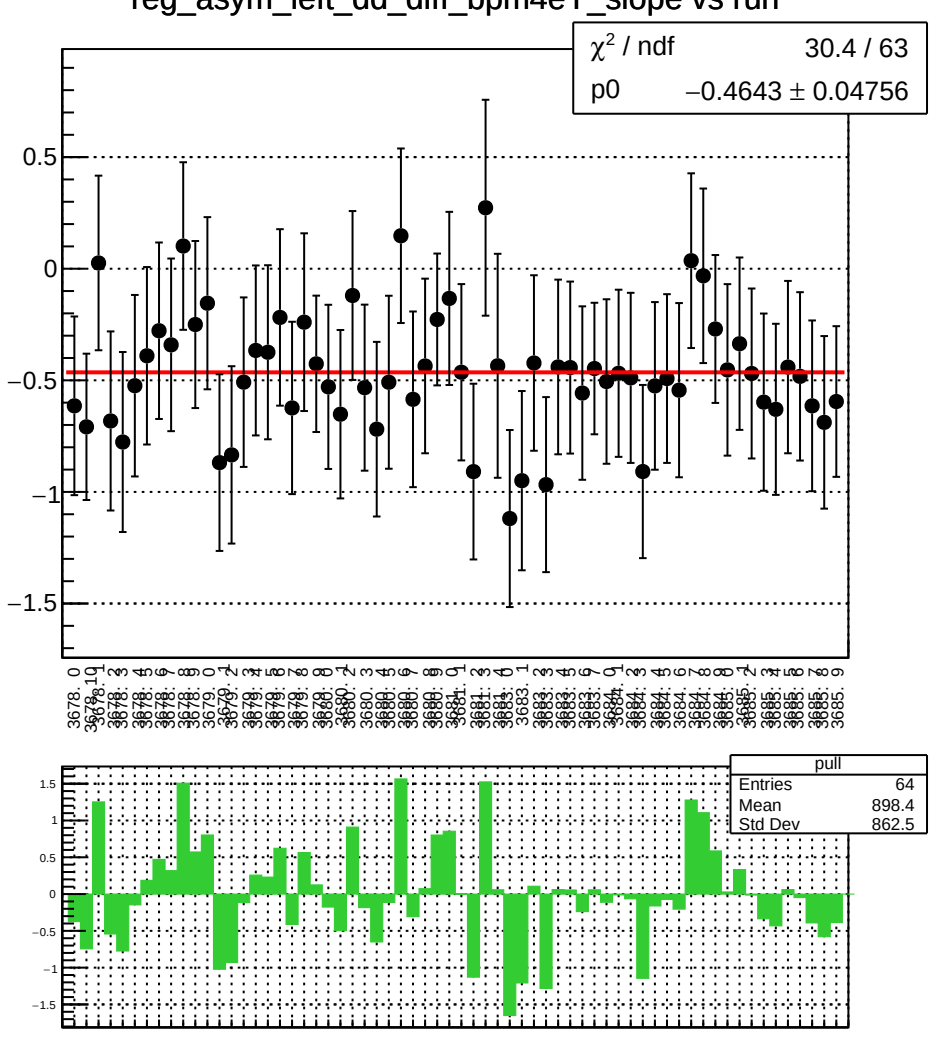

pull1D
Entries 64
Mean 0.01275
Std Dev 0.8002

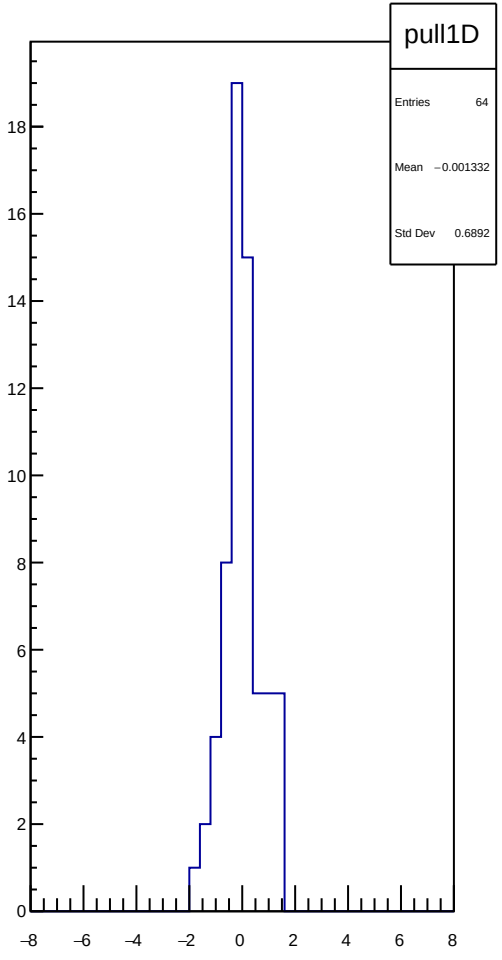

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.56 / 63
p0 0.4356 ± 0.03046
pull
Entries 64
Mean 1596
Std Dev 1562

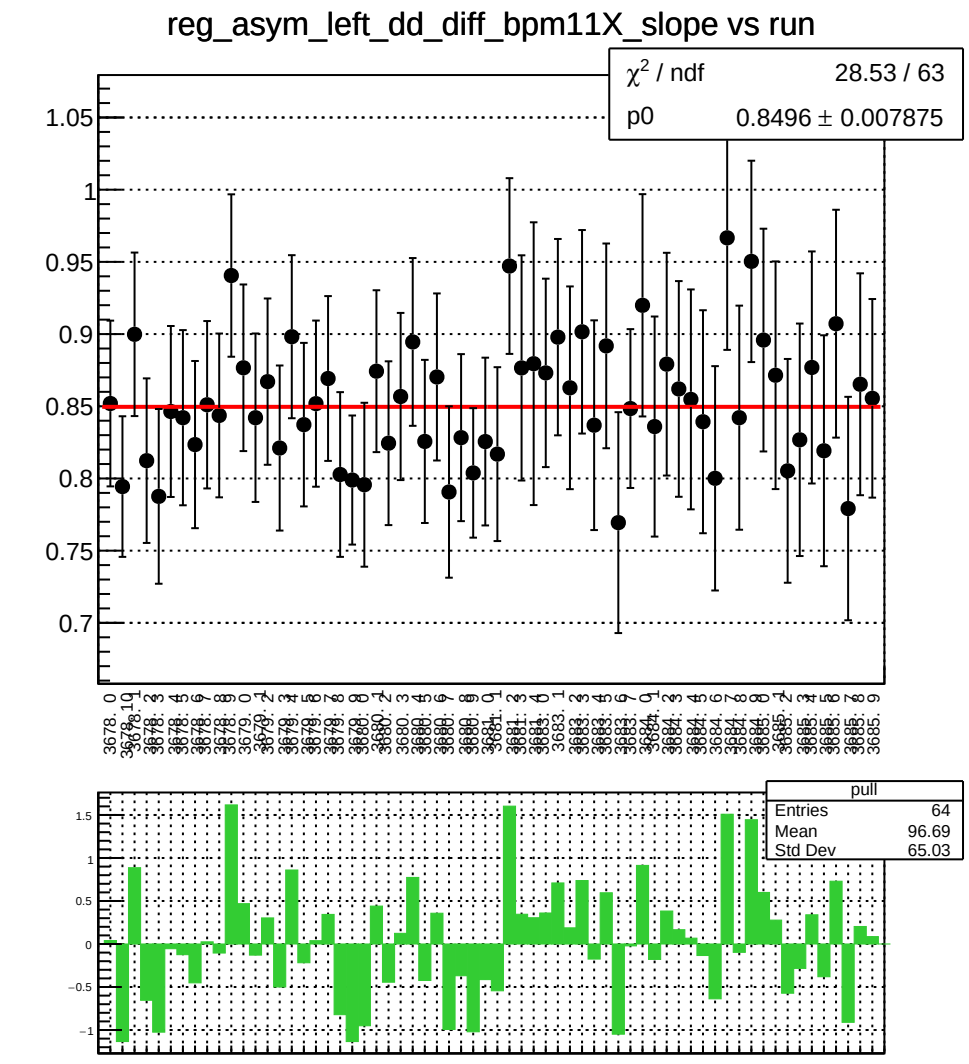

pull1D
Entries 64
Mean 0.0009301
Std Dev 0.691

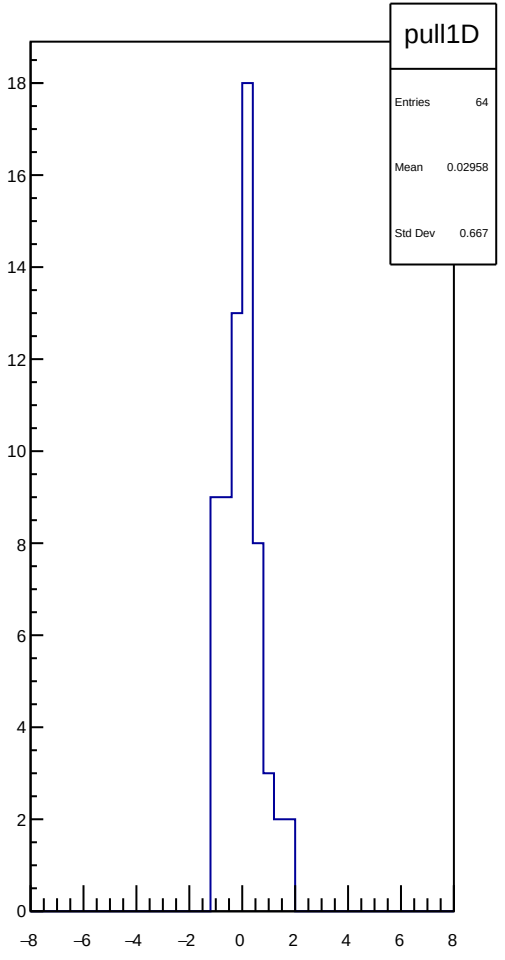

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.39 / 63
p0 2.533 ± 0.0079
pull
Entries 64
Mean −5307
Std Dev 5339

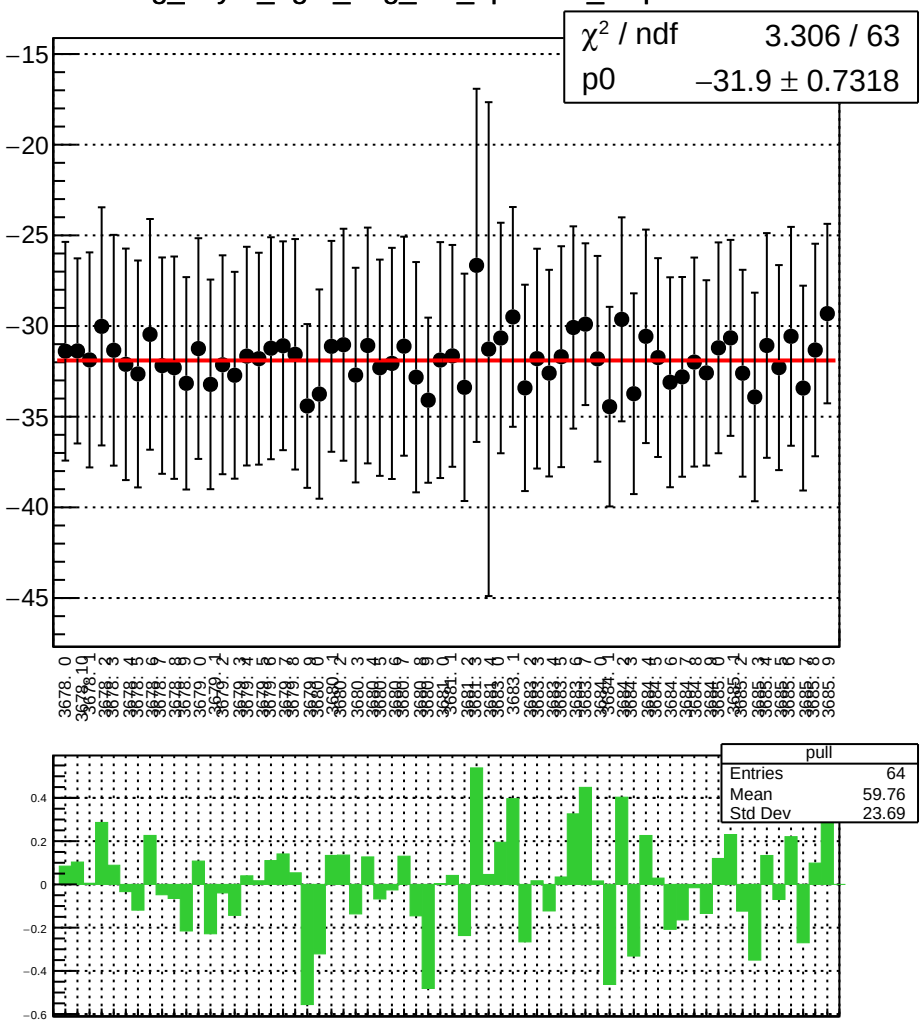

pull1D
Entries 64
Mean −0.001032
Std Dev 0.8514

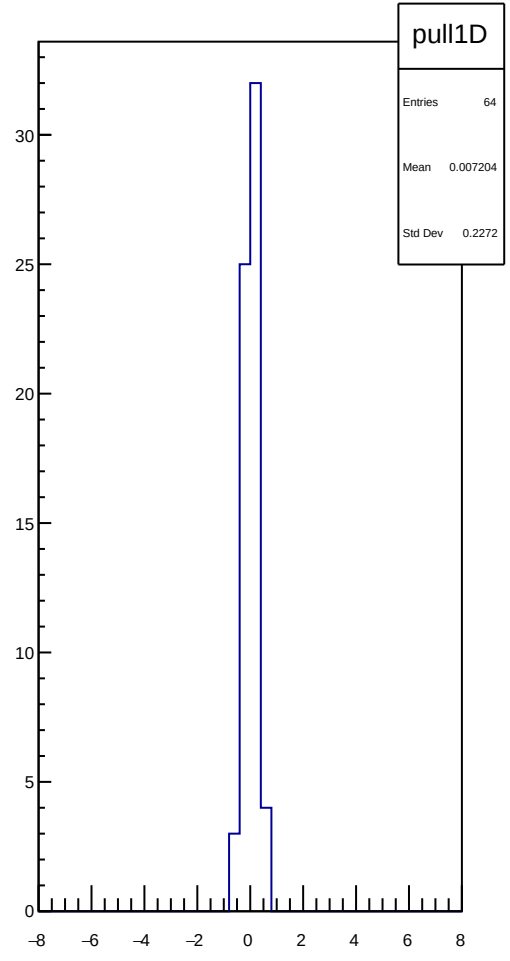

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.4 / 63
p0 −0.4643 ± 0.04756
pull
Entries 64
Mean 898.4
Std Dev 862.5

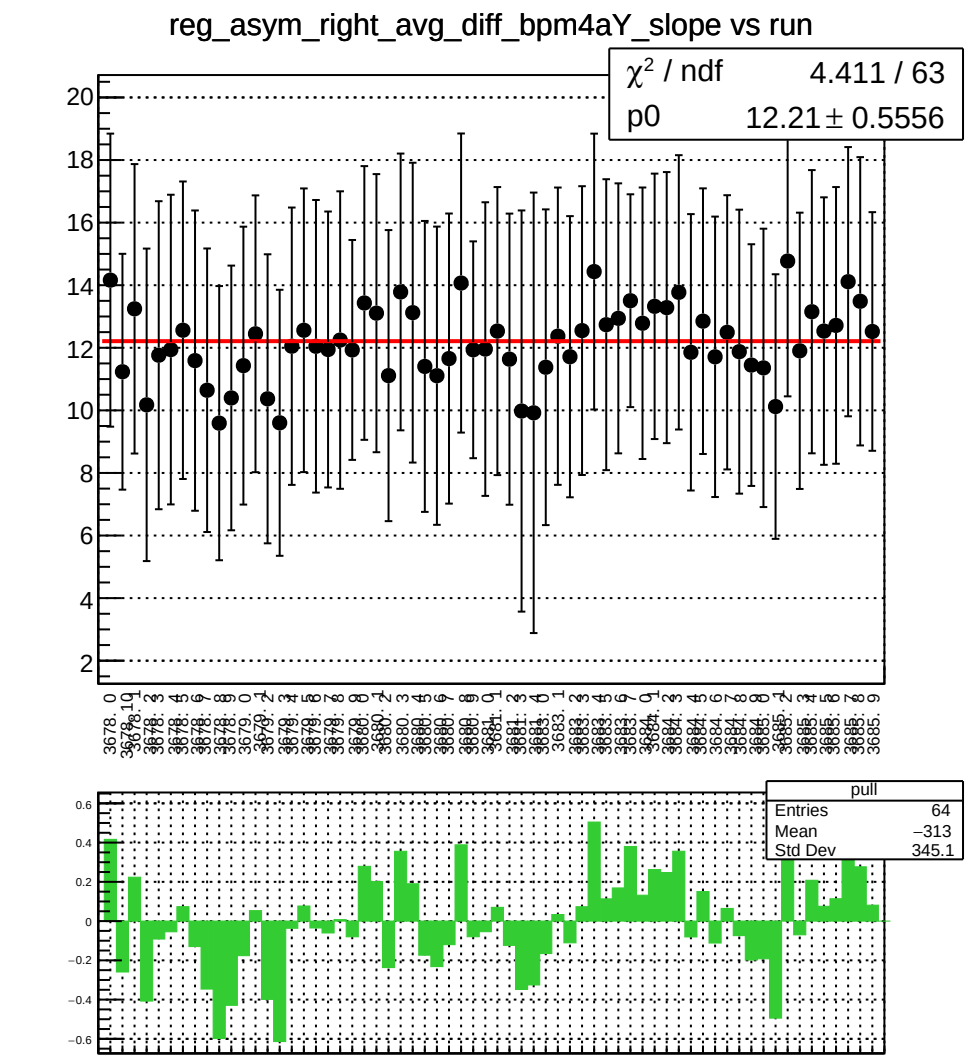

pull1D
Entries 64
Mean −0.001332
Std Dev 0.6892

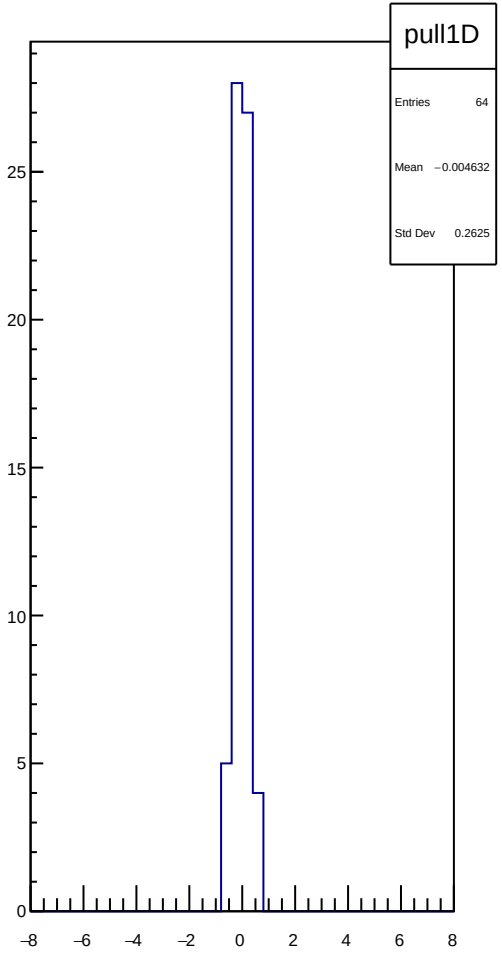

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 28.53 / 63
p0 0.8496 ± 0.007875
pull
Entries 64
Mean 96.69
Std Dev 65.03

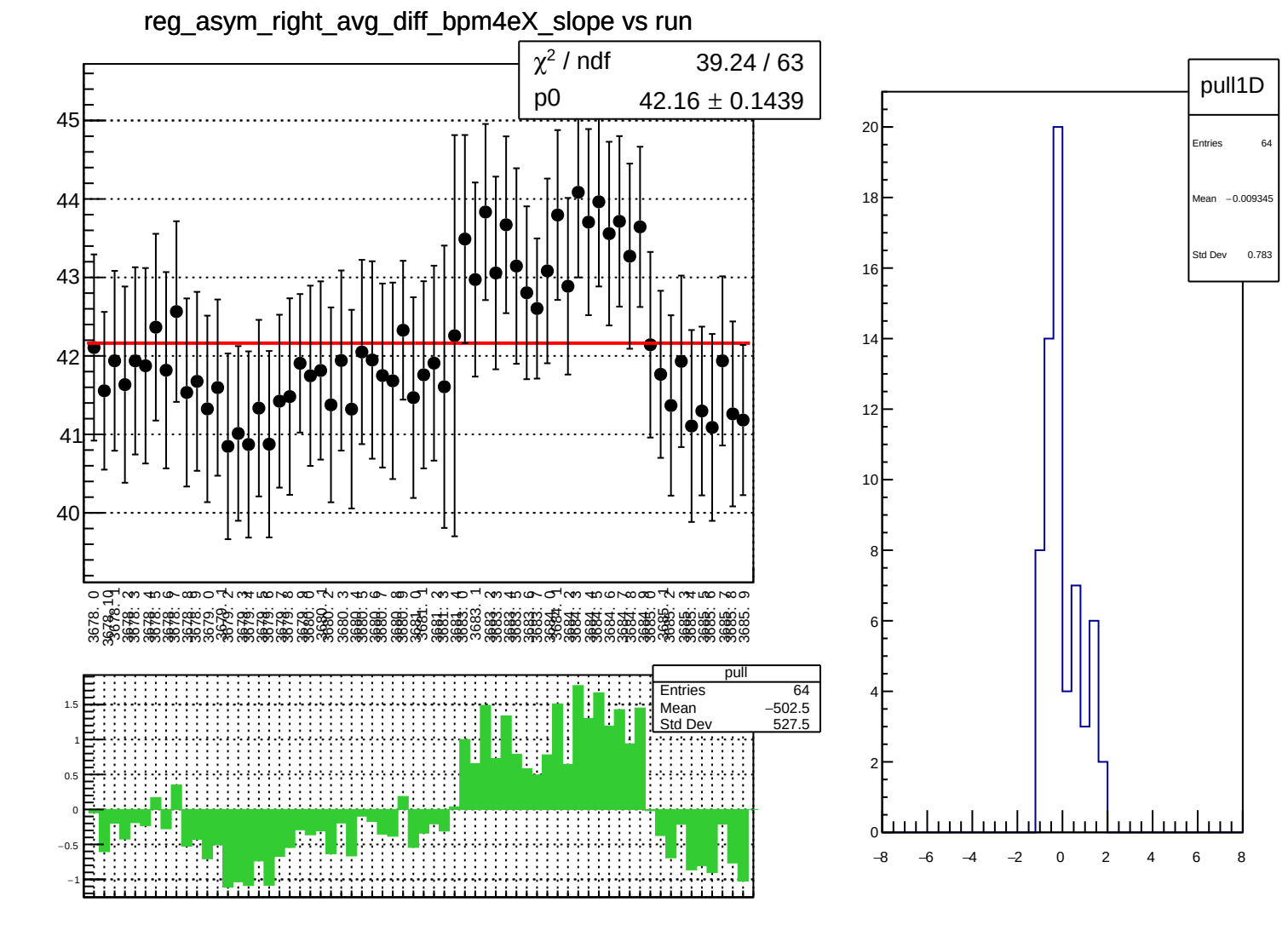

pull1D
Entries 64
Mean 0.02958
Std Dev 0.667

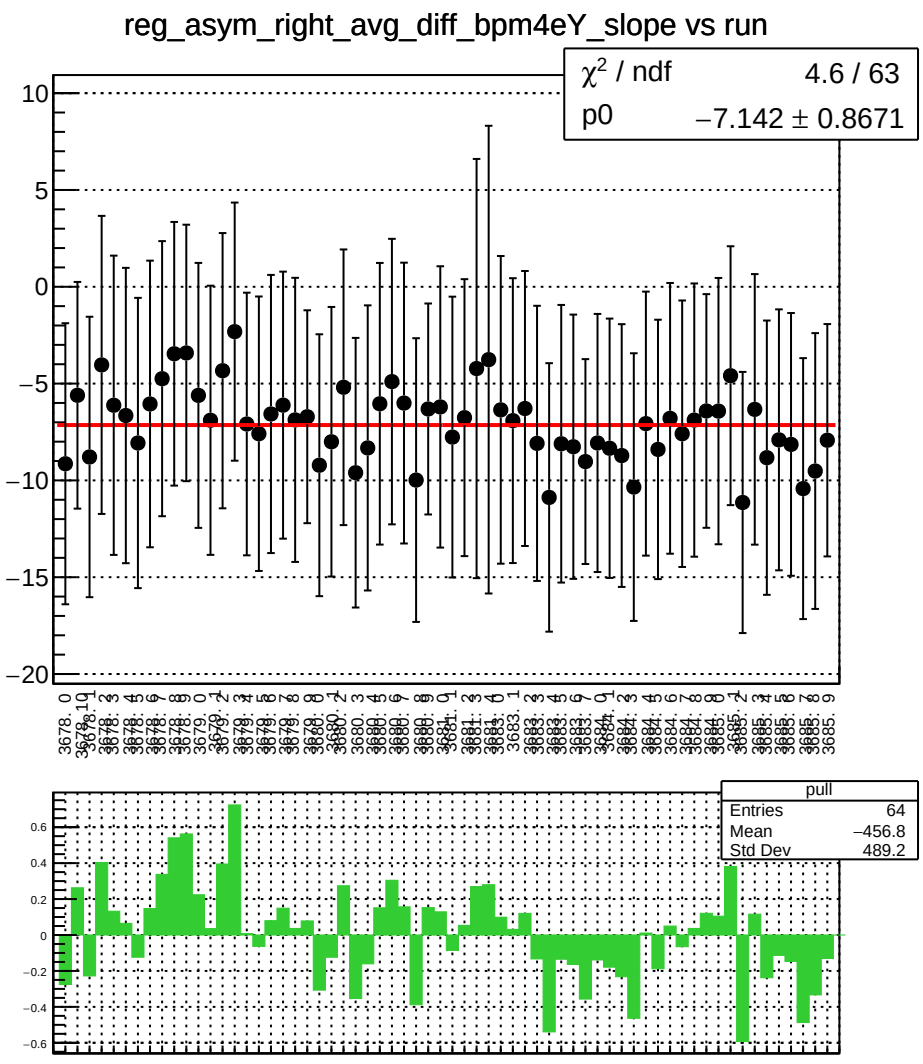

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 3.306 / 63
p0 −31.9 ± 0.7318
pull
Entries 64
Mean 59.76
Std Dev 23.69

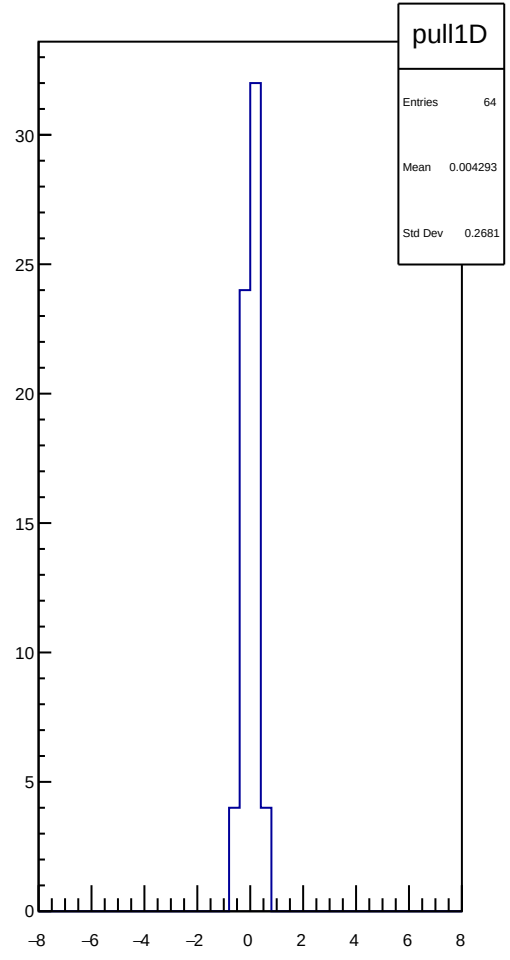

pull1D
Entries 64
Mean 0.007204
Std Dev 0.2272

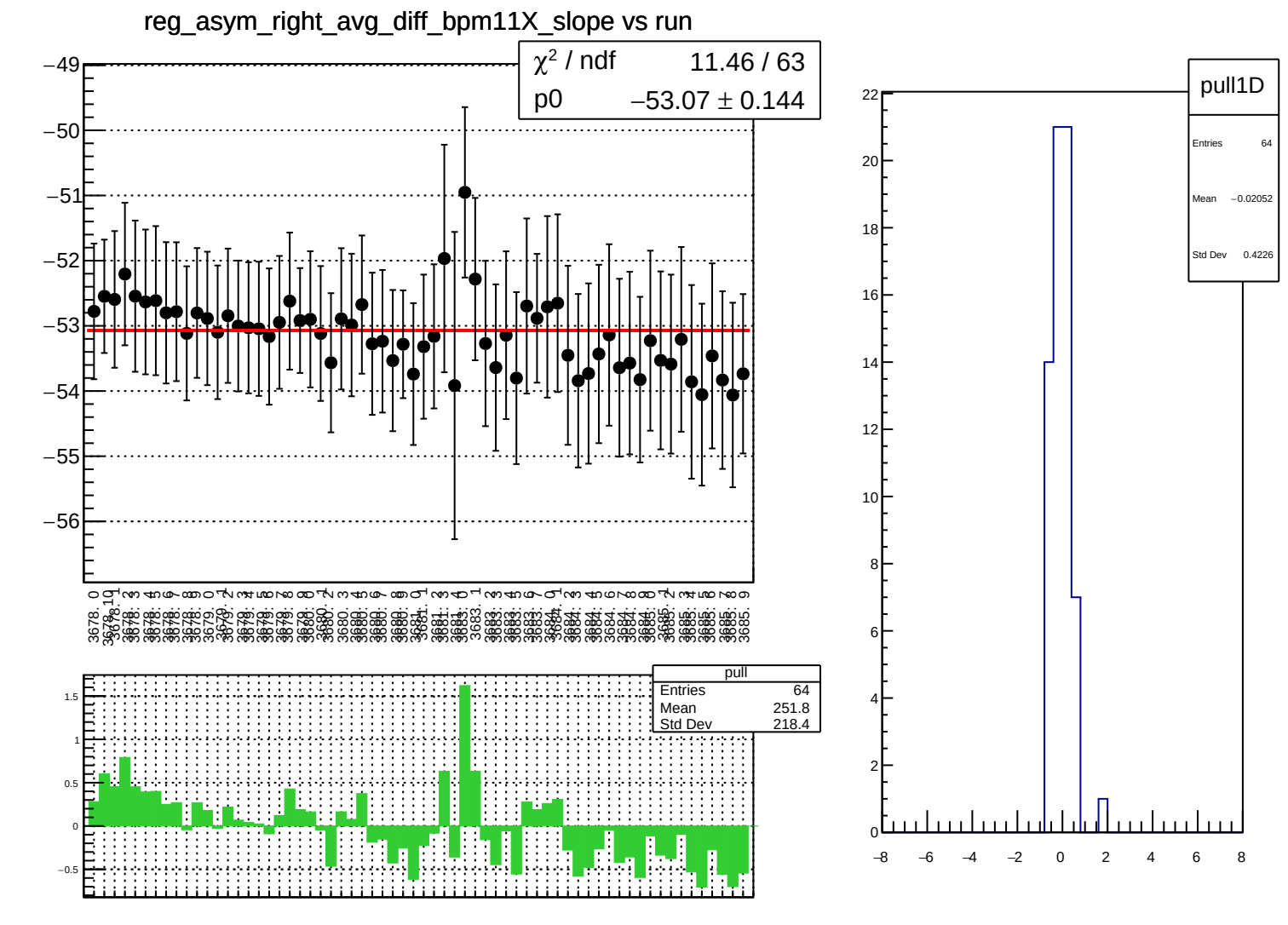

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.411 / 63
p0 12.21 ± 0.5556
pull
Entries 64
Mean −313
Std Dev 345.1

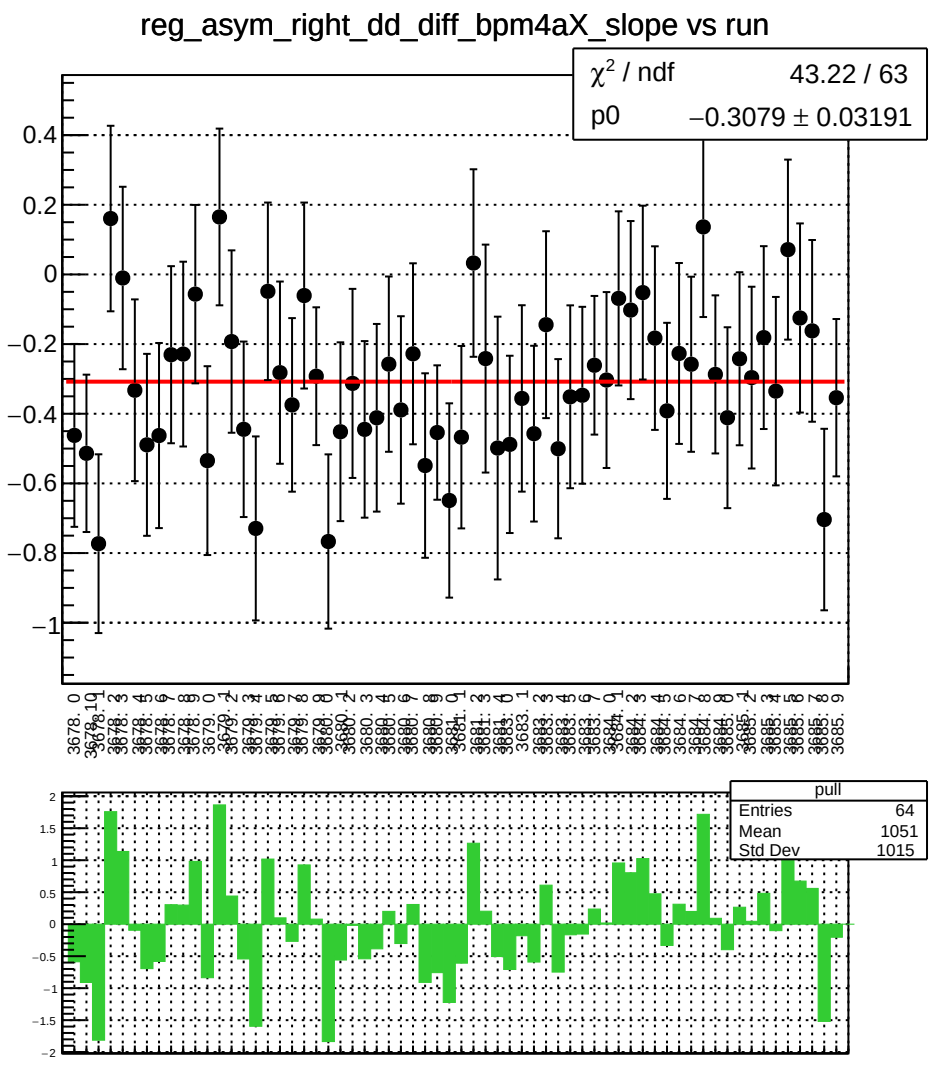

pull1D
Entries 64
Mean −0.004632
Std Dev 0.2625

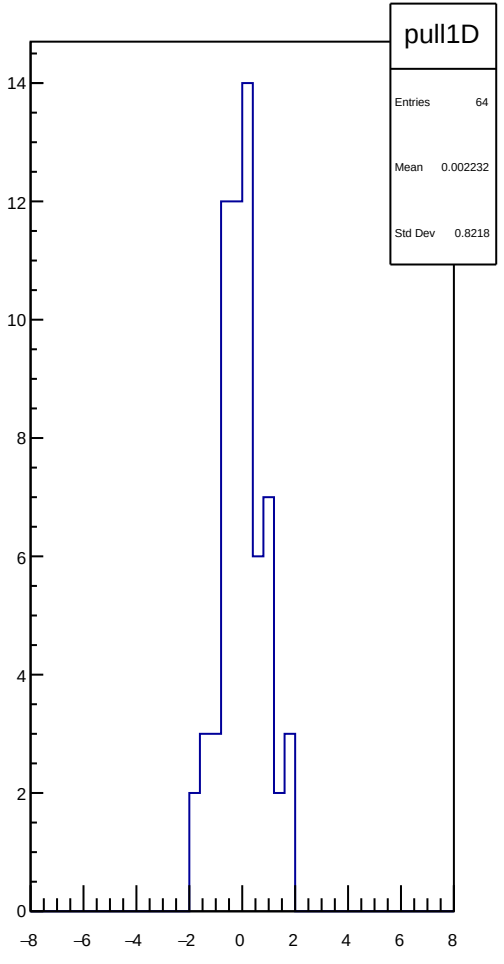

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 39.24 / 63
p0 42.16 ± 0.1439
pull
Entries 64
Mean −502.5
Std Dev 527.5
pull1D
Entries 64
Mean −0.009345
Std Dev 0.783

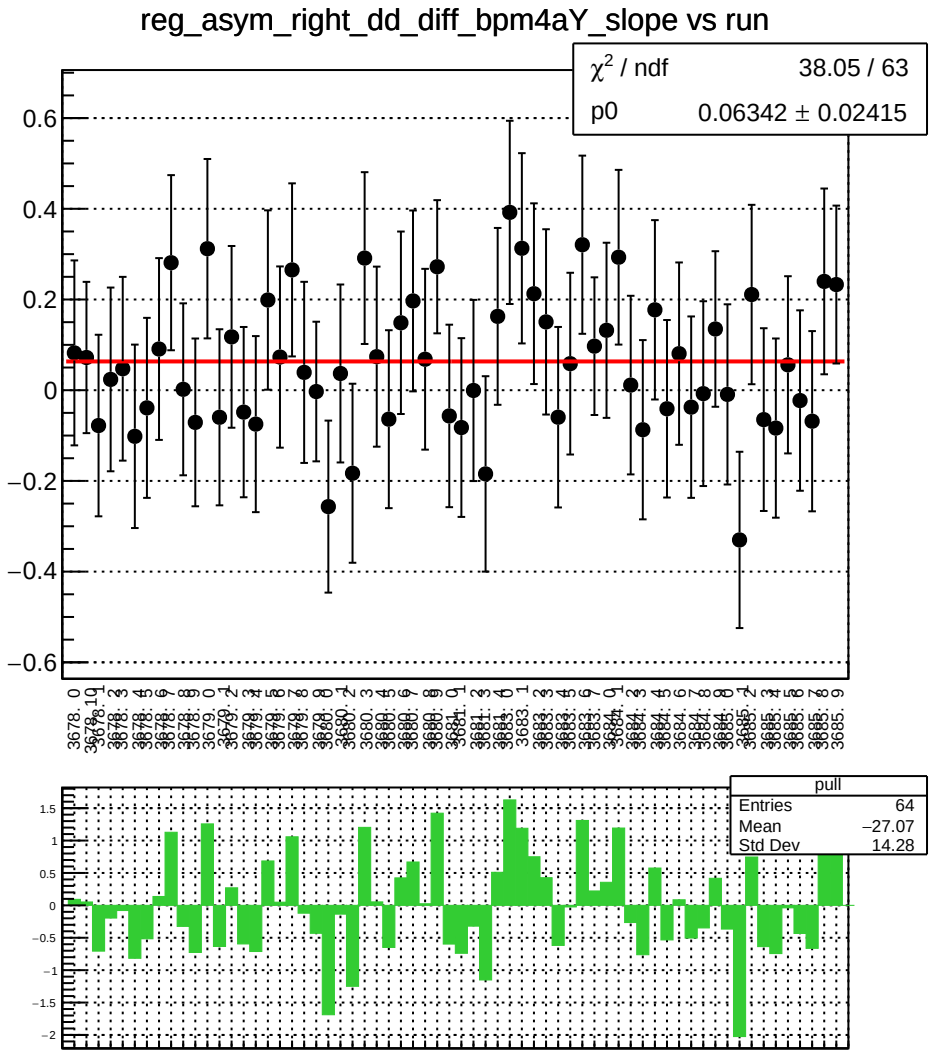

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.6 / 63
p0 −7.142 ± 0.8671
pull
Entries 64
Mean −456.8
Std Dev 489.2

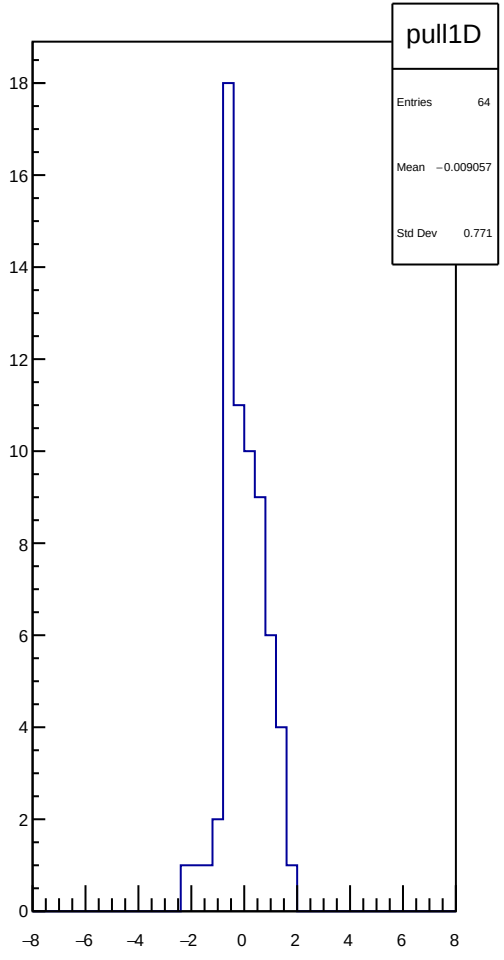

pull1D
Entries 64
Mean 0.004293
Std Dev 0.2681

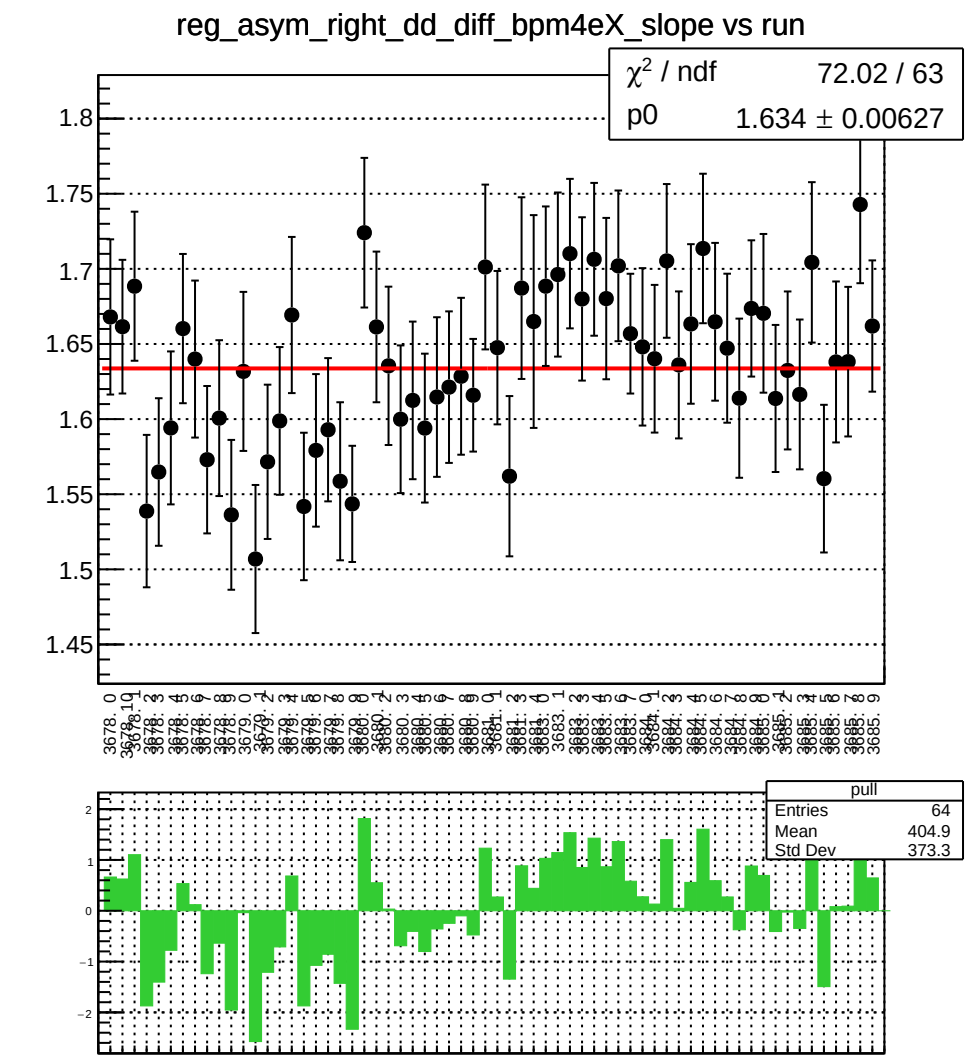

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 11.46 / 63
p0 −53.07 ± 0.144
pull
Entries 64
Mean 251.8
Std Dev 218.4
pull1D
Entries 64
Mean −0.02052
Std Dev 0.4226

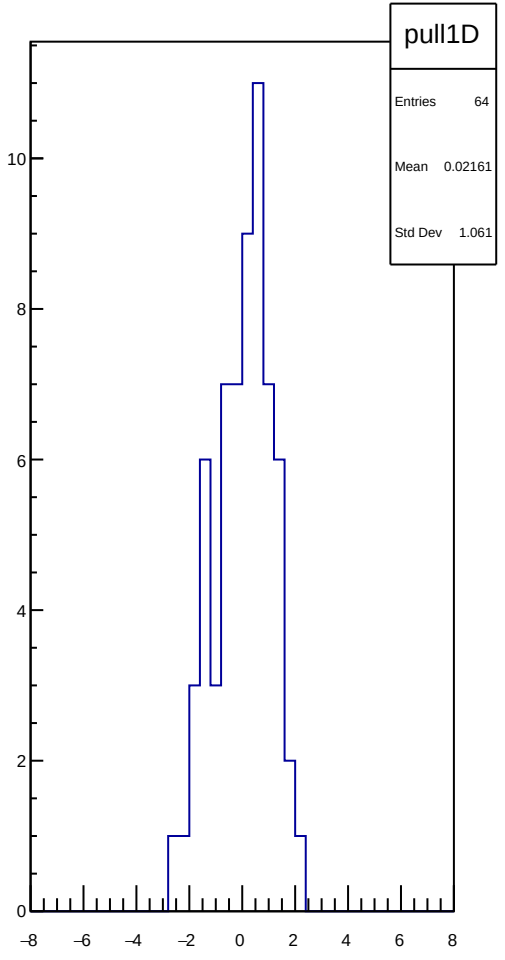

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 43.22 / 63
p0 −0.3079 ± 0.03191
pull
Entries 64
Mean 1051
Std Dev 1015

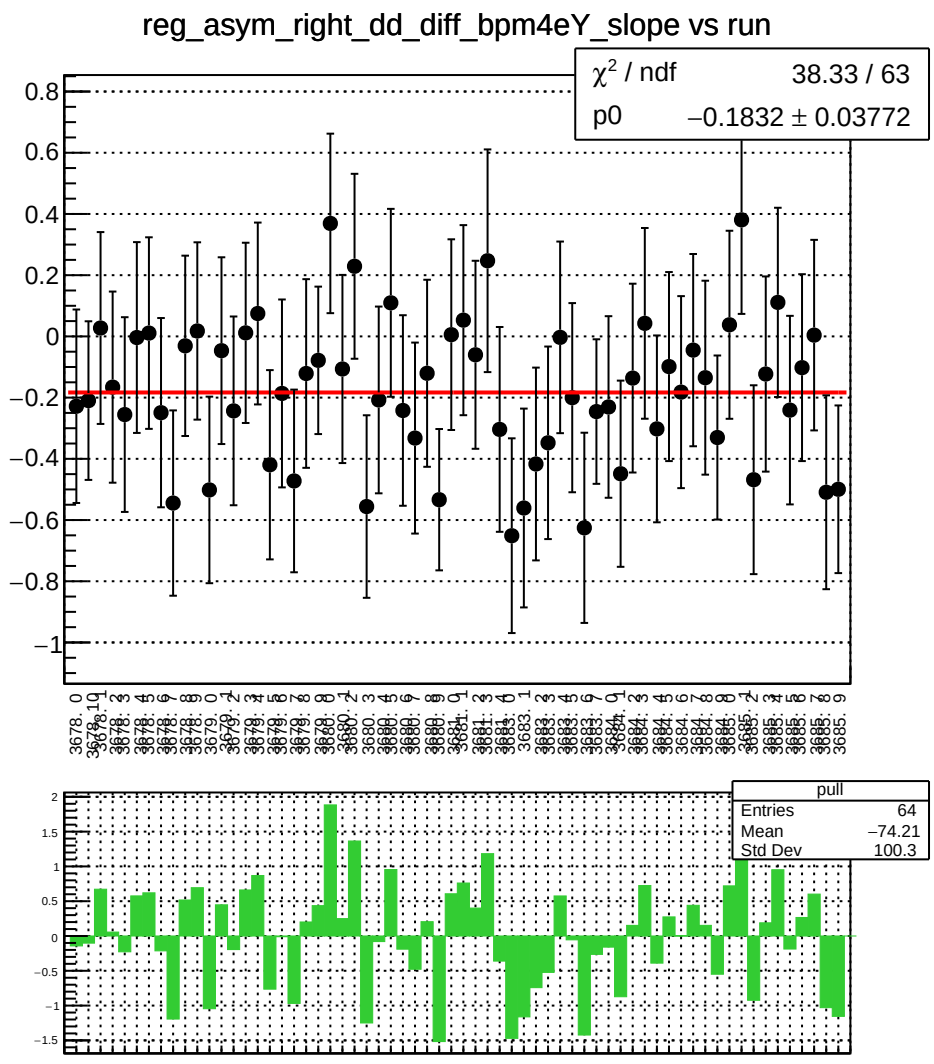

pull1D
Entries 64
Mean 0.002232
Std Dev 0.8218

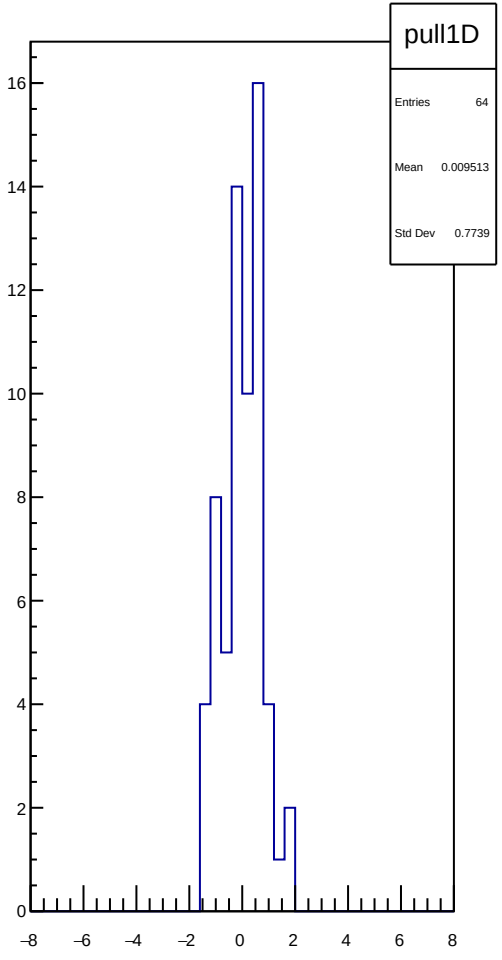

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.05 / 63
p0 0.06342 ± 0.02415
pull
Entries 64
Mean −27.07
Std Dev 14.28

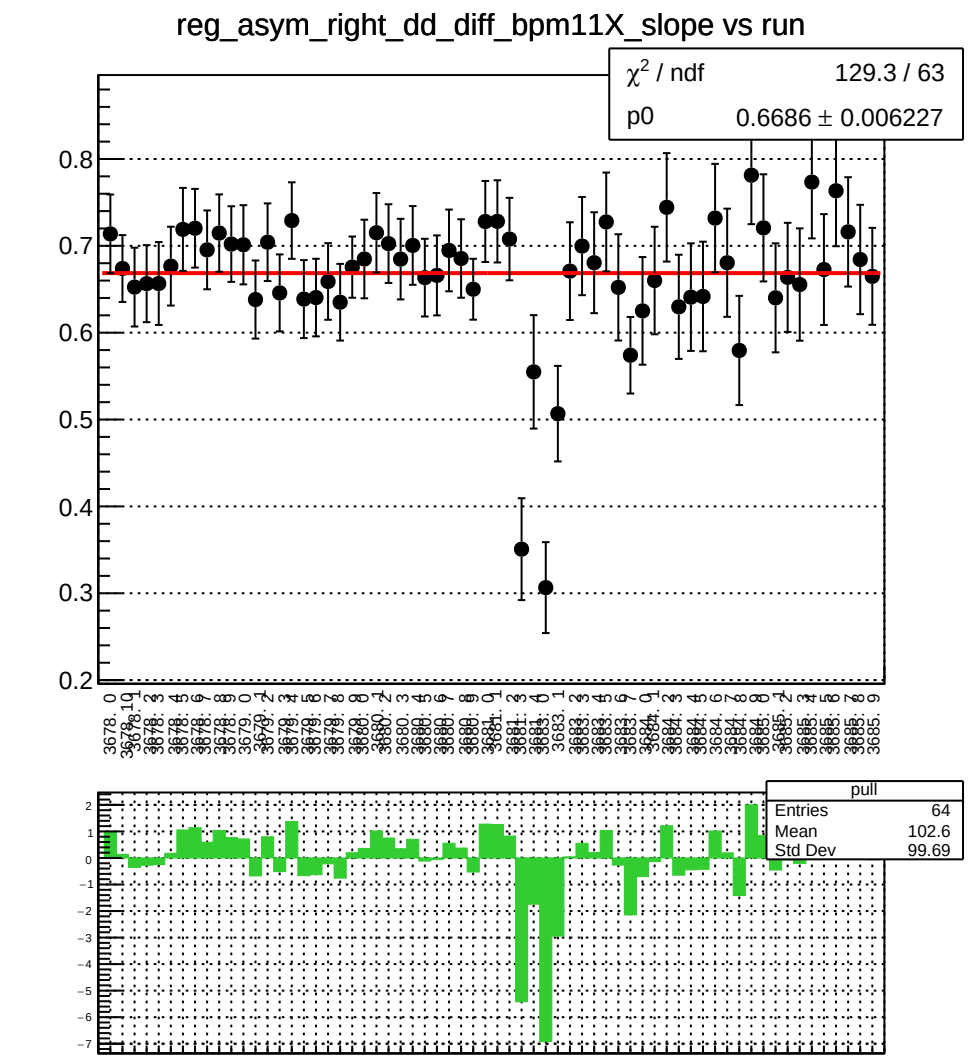

pull1D
Entries 64
Mean −0.009057
Std Dev 0.771

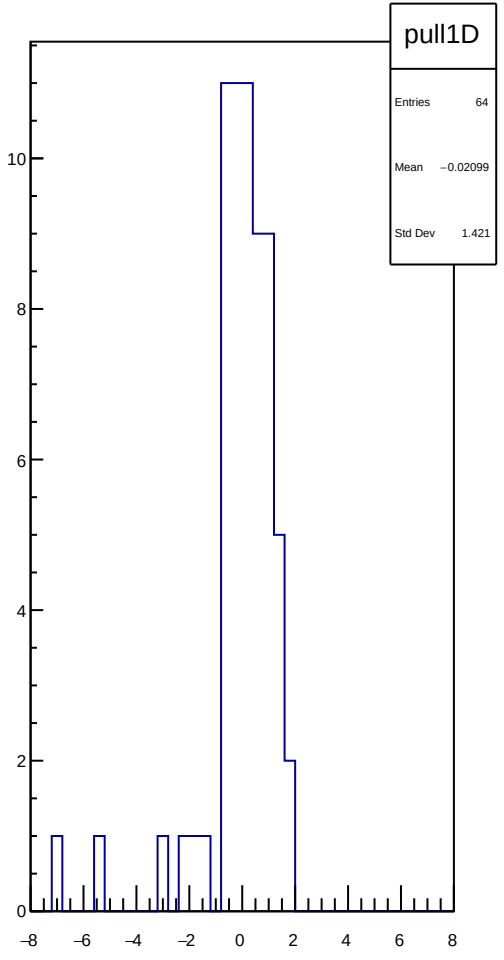

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.02 / 63
p0 1.634 ± 0.00627
pull
Entries 64
Mean 404.9
Std Dev 373.3

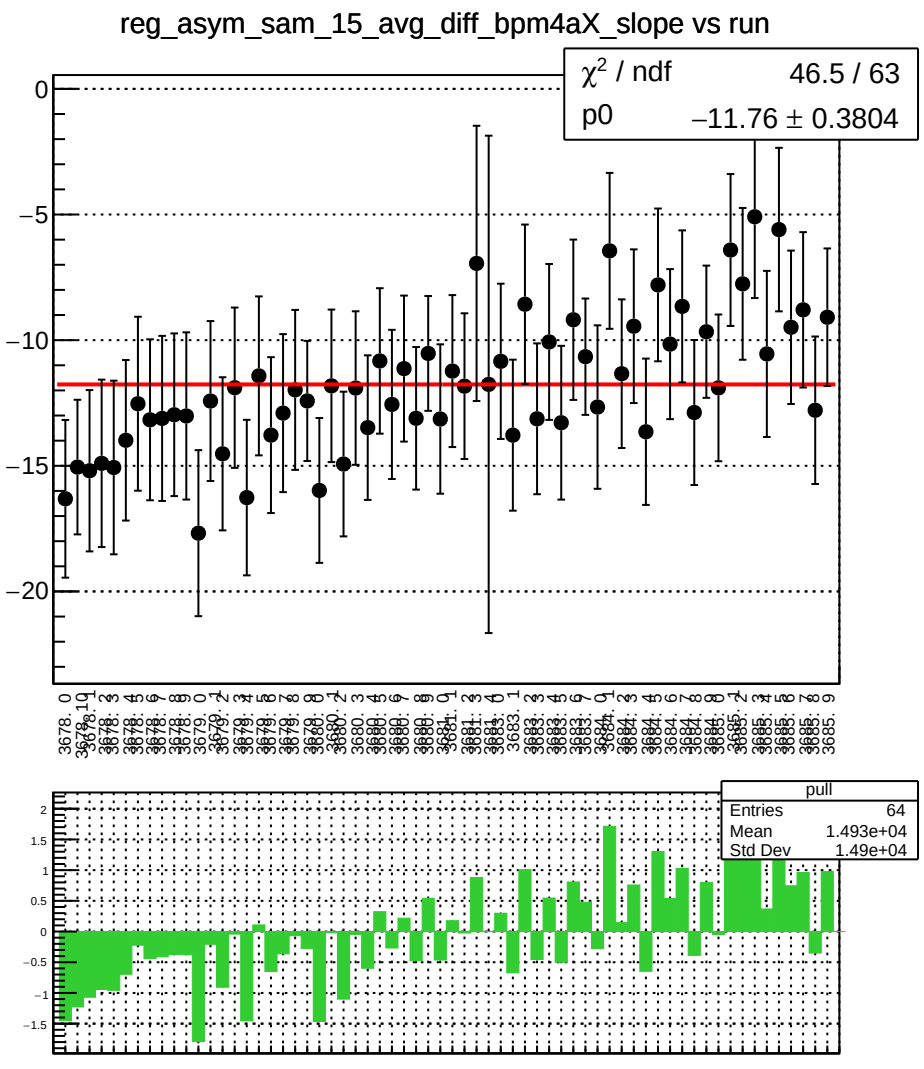

pull1D
Entries 64
Mean 0.02161
Std Dev 1.061

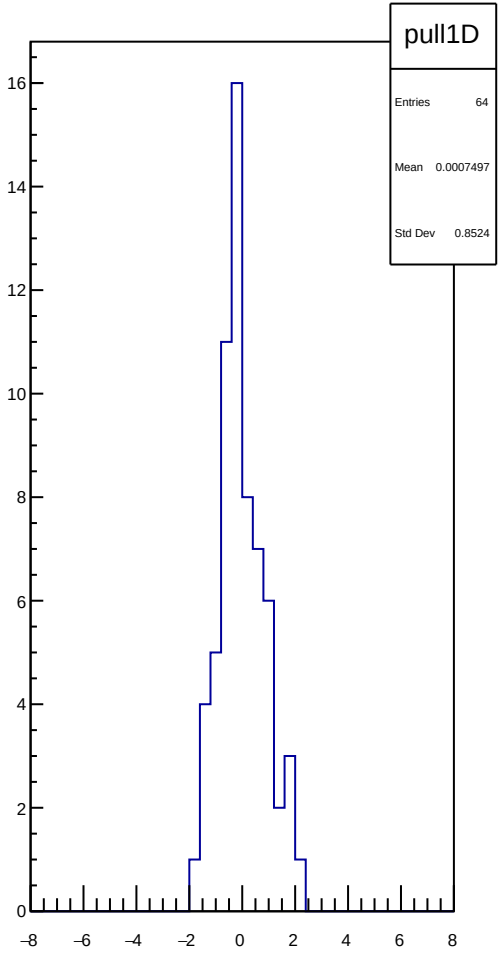

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.33 / 63
p0 −0.1832 ± 0.03772
pull
Entries 64
Mean −74.21
Std Dev 100.3

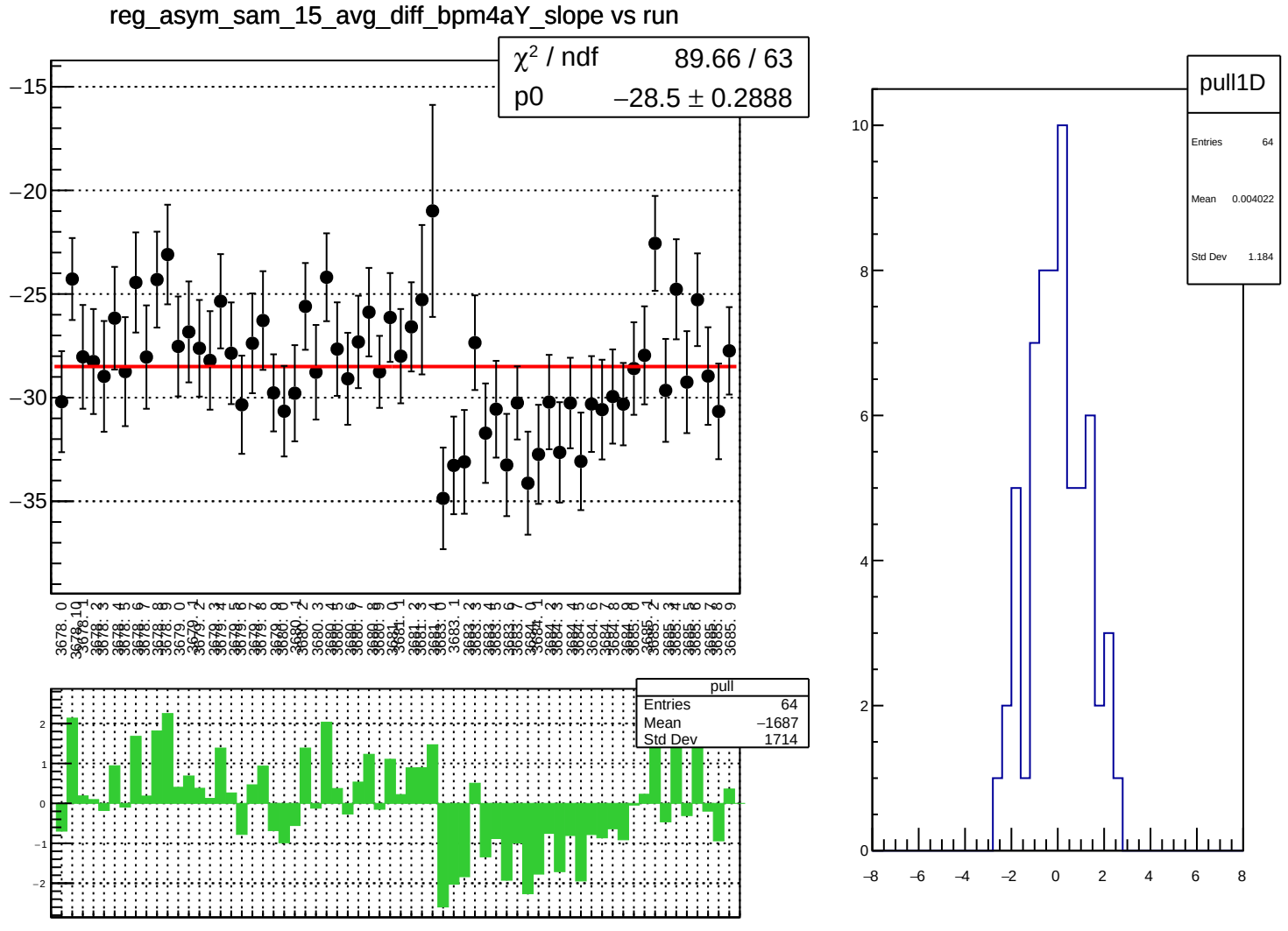

pull1D
Entries 64
Mean 0.009513
Std Dev 0.7739

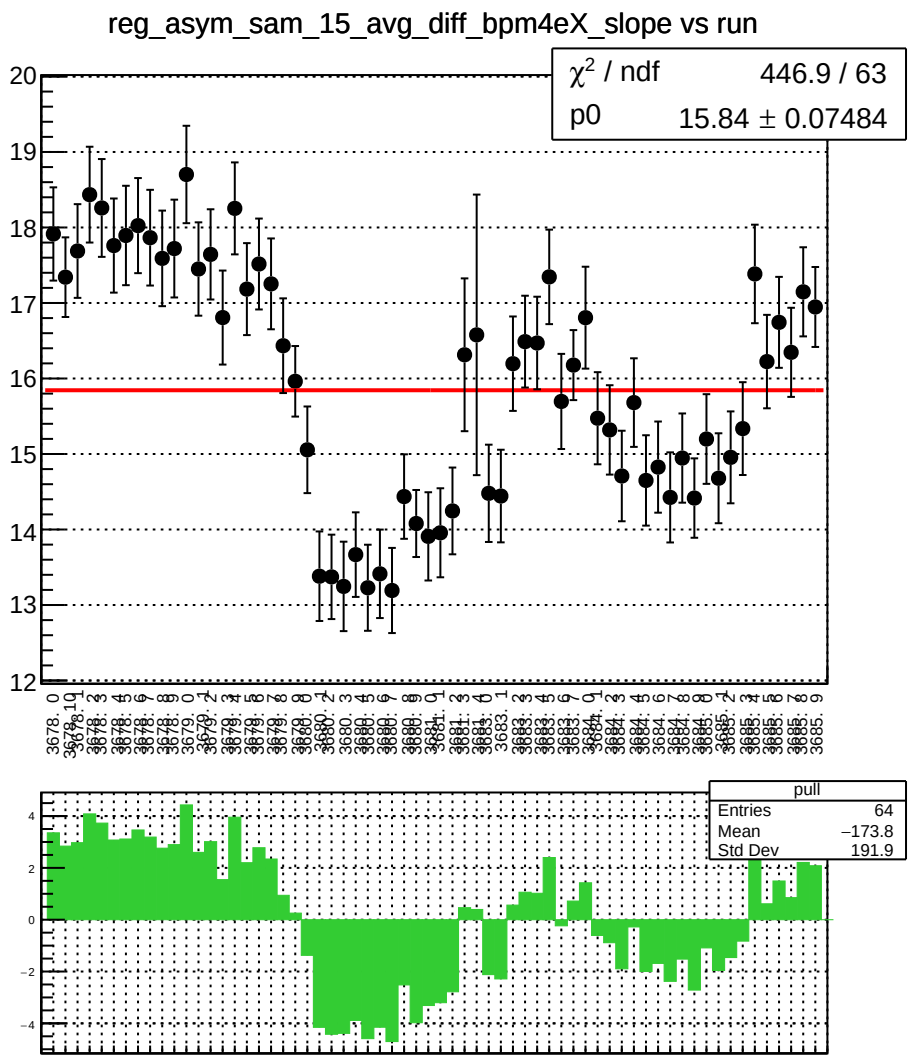

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 129.3 / 63
p0 0.6686 ± 0.006227
pull
Entries 64
Mean 102.6
Std Dev 99.69

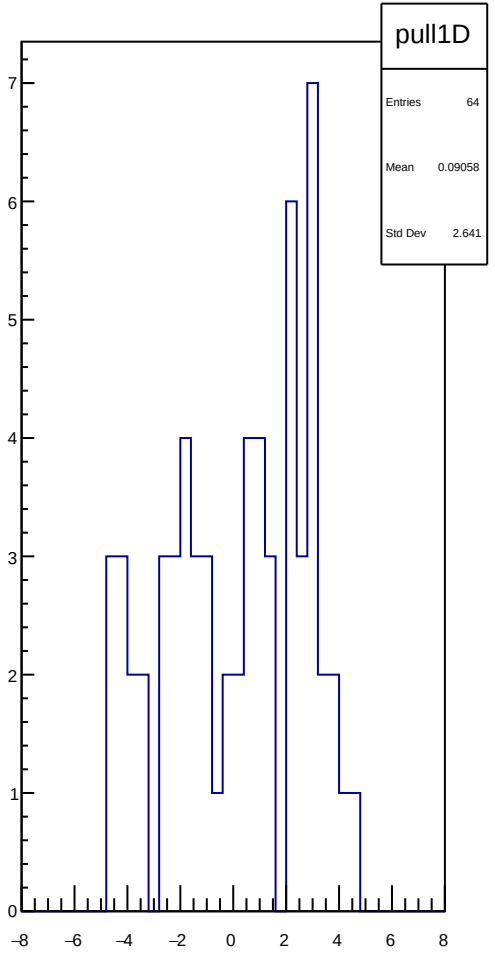

pull1D
Entries 64
Mean −0.02099
Std Dev 1.421

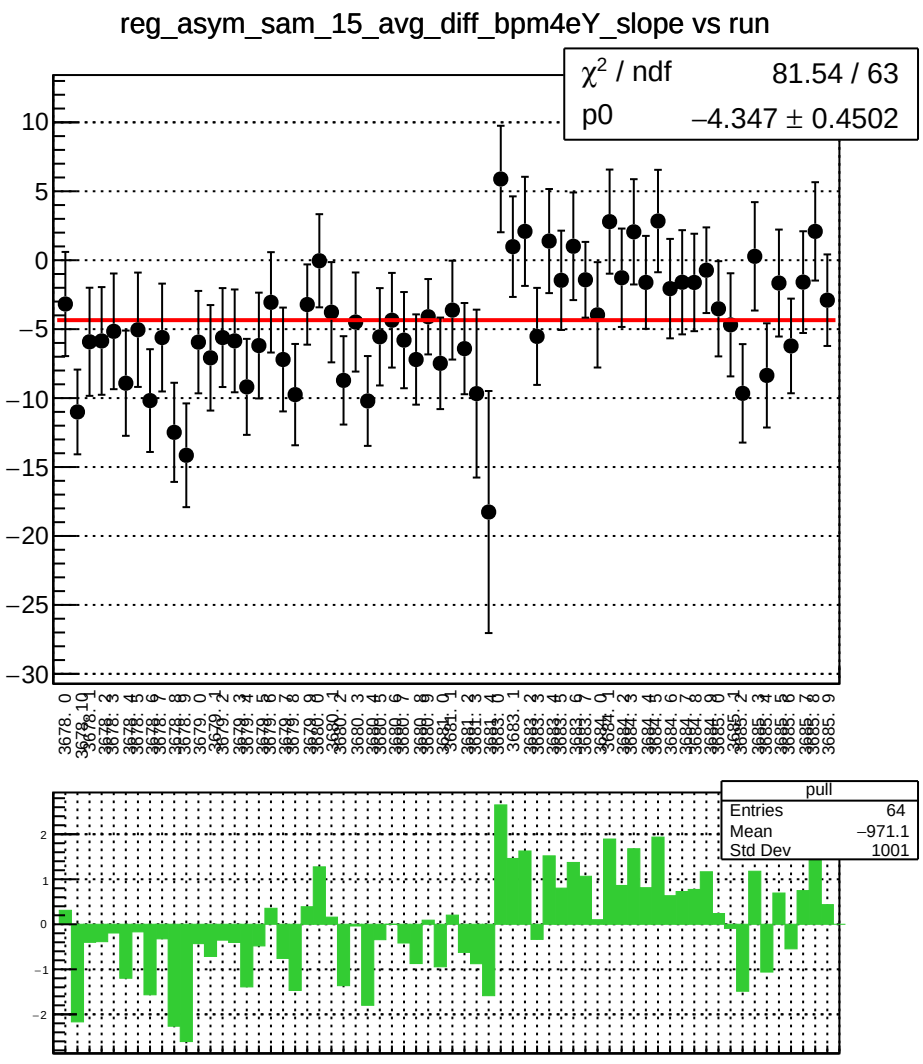

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 46.5 / 63
p0 −11.76 ± 0.3804
pull
Entries 64
Mean 1.493e+04
Std Dev 1.49e+04

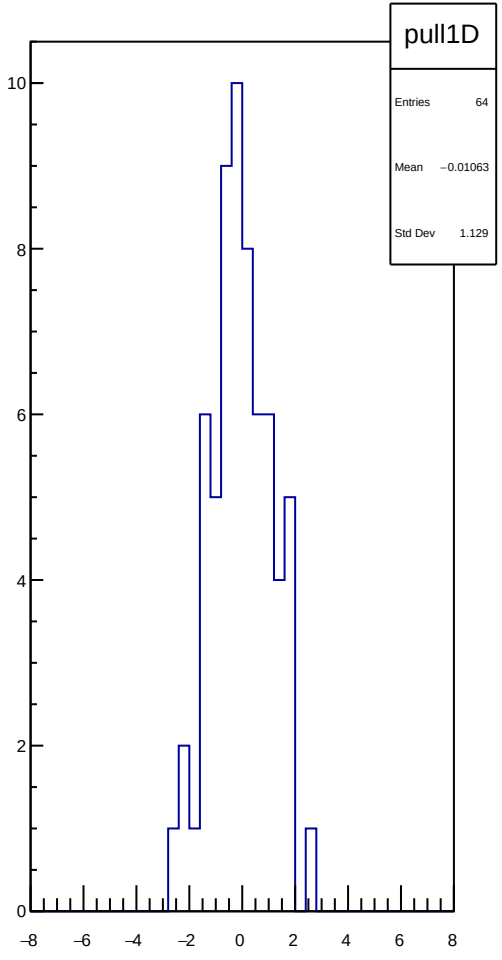

pull1D
Entries 64
Mean 0.0007497
Std Dev 0.8524

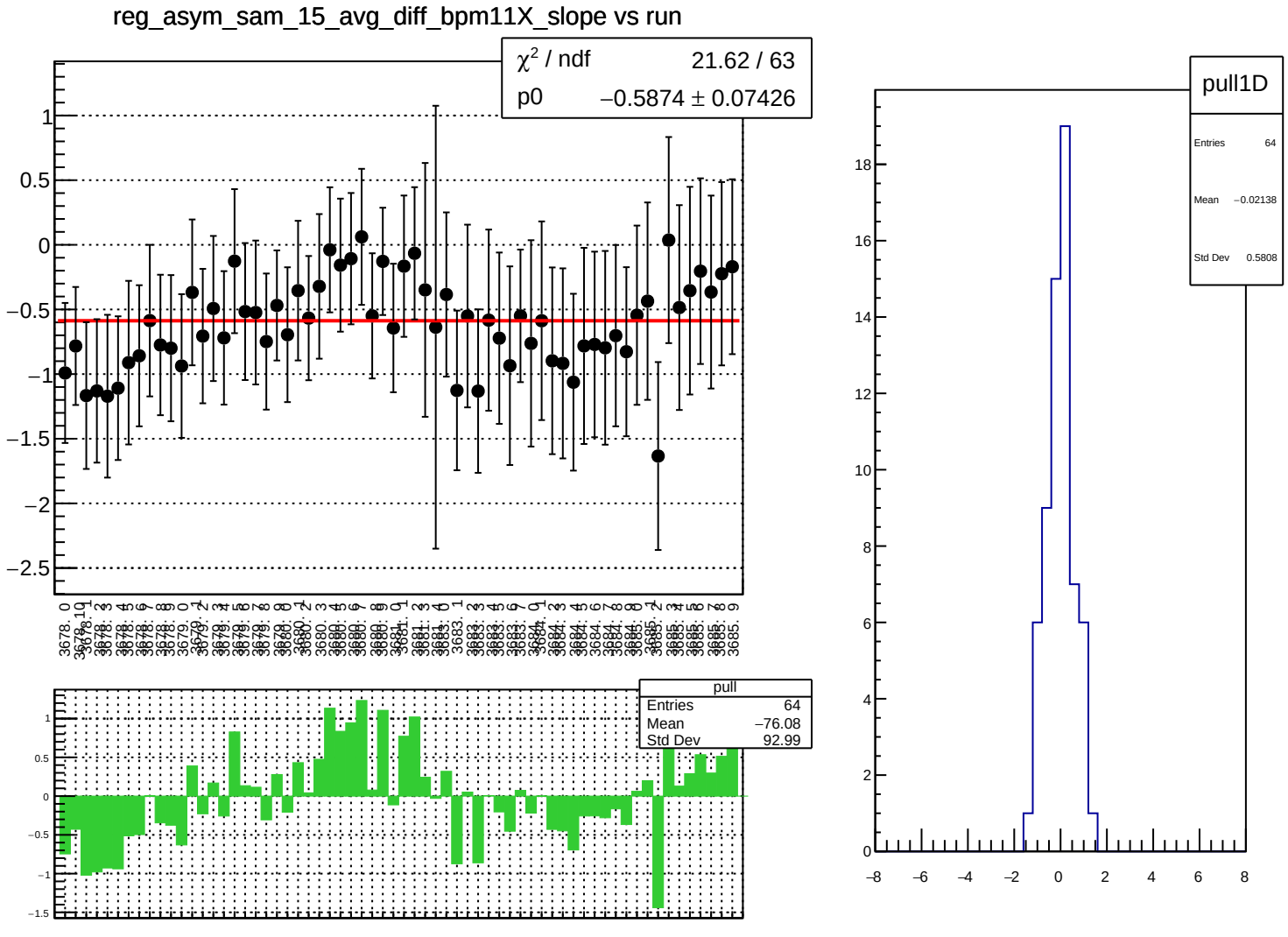

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 89.66 / 63
p0 −28.5 ± 0.2888
pull
Entries 64
Mean −1687
Std Dev 1714
pull1D
Entries 64
Mean 0.004022
Std Dev 1.184

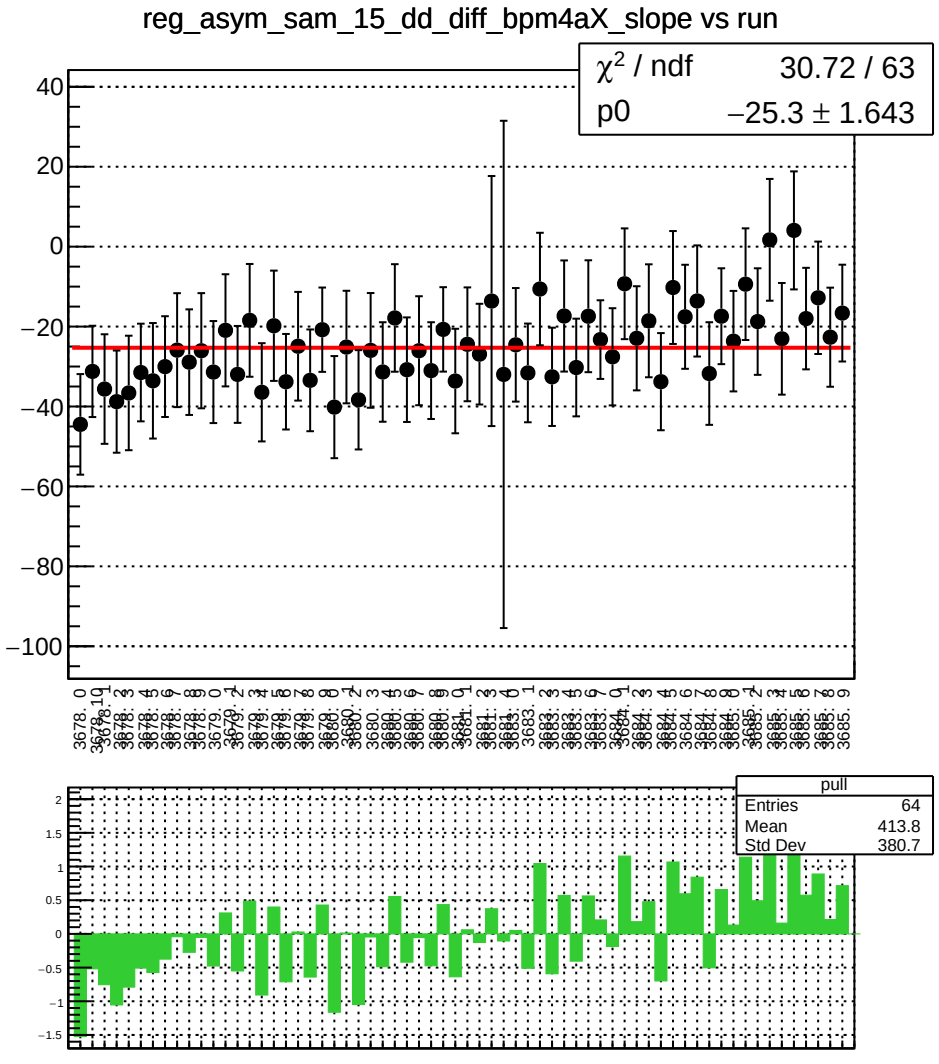

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 446.9 / 63
p0 15.84 ± 0.07484
pull
Entries 64
Mean −173.8
Std Dev 191.9

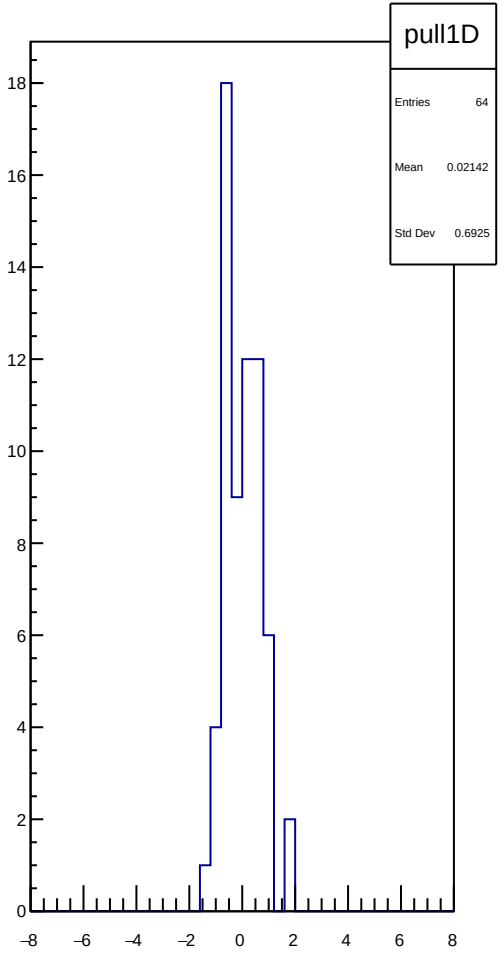

pull1D
Entries 64
Mean 0.09058
Std Dev 2.641

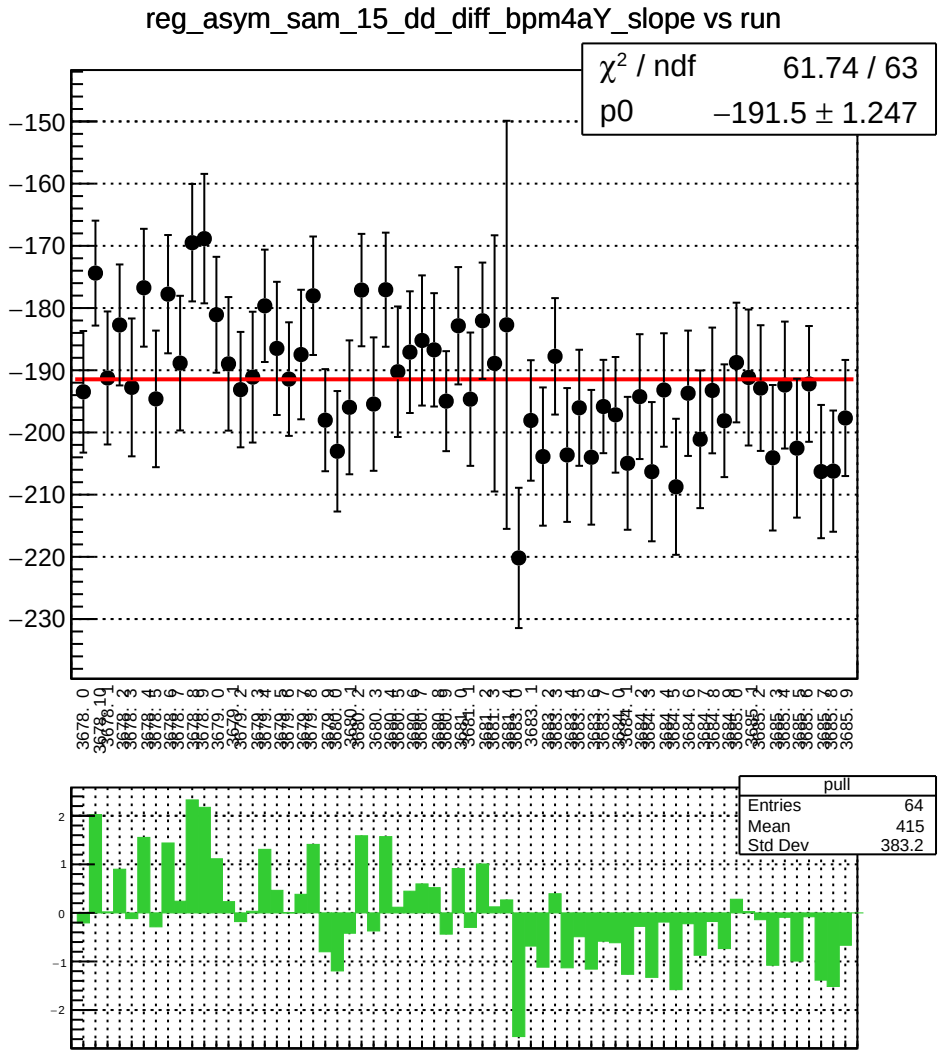

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 81.54 / 63
p0 −4.347 ± 0.4502
pull
Entries 64
Mean −971.1
Std Dev 1001

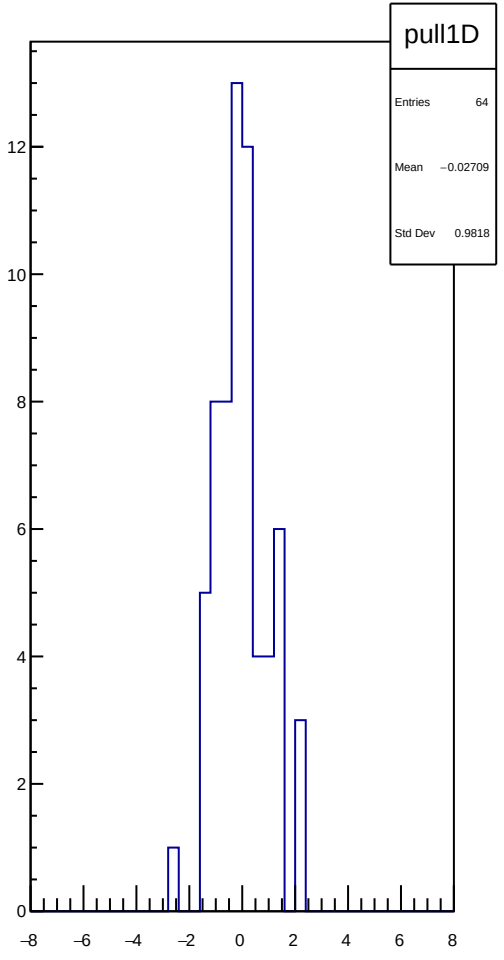

pull1D
Entries 64
Mean −0.01063
Std Dev 1.129

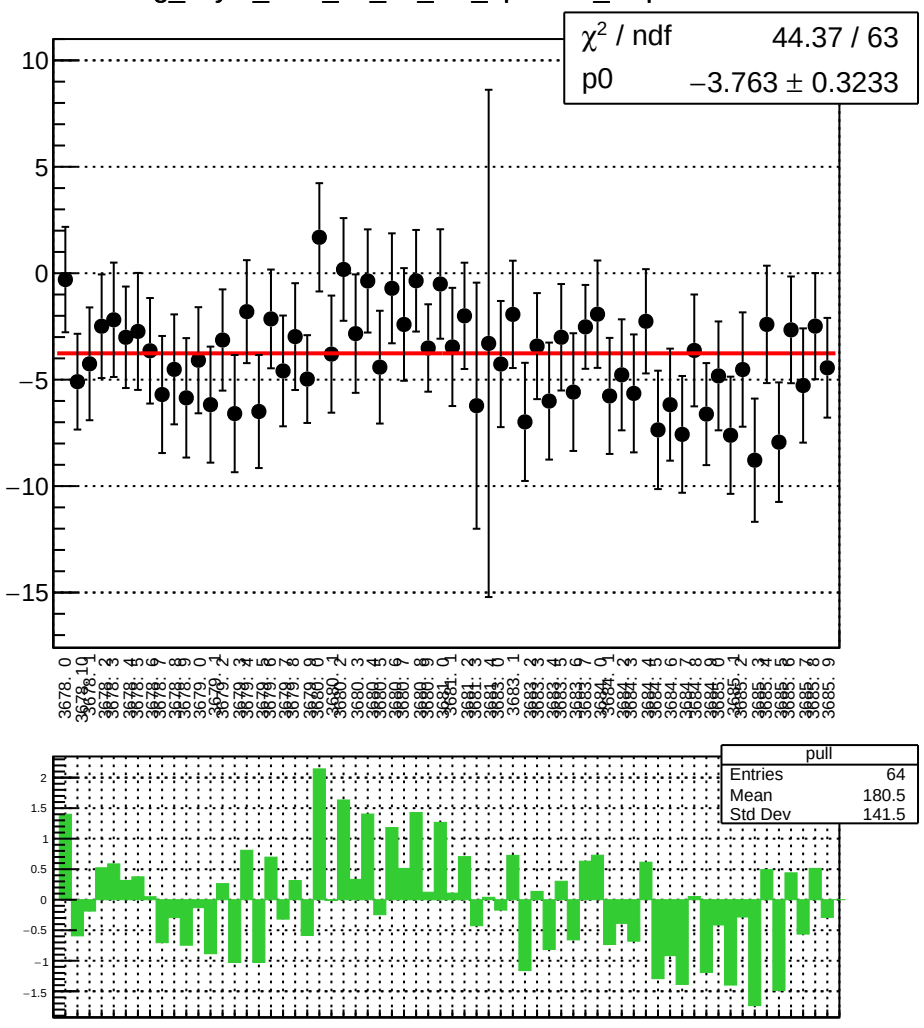

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 21.62 / 63
p0 −0.5874 ± 0.07426
pull
Entries 64
Mean −76.08
Std Dev 92.99
pull1D
Entries 64
Mean −0.02138
Std Dev 0.5808

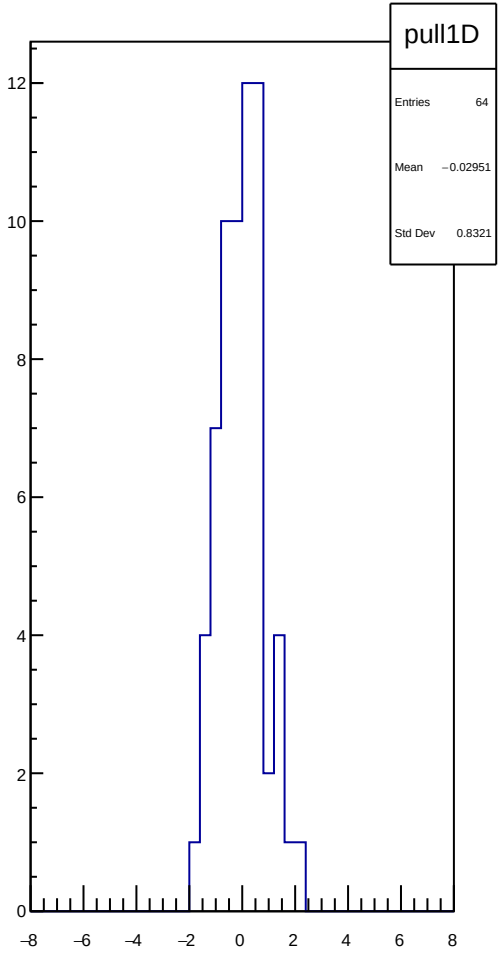

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 30.72 / 63
p0 −25.3 ± 1.643
pull
Entries 64
Mean 413.8
Std Dev 380.7

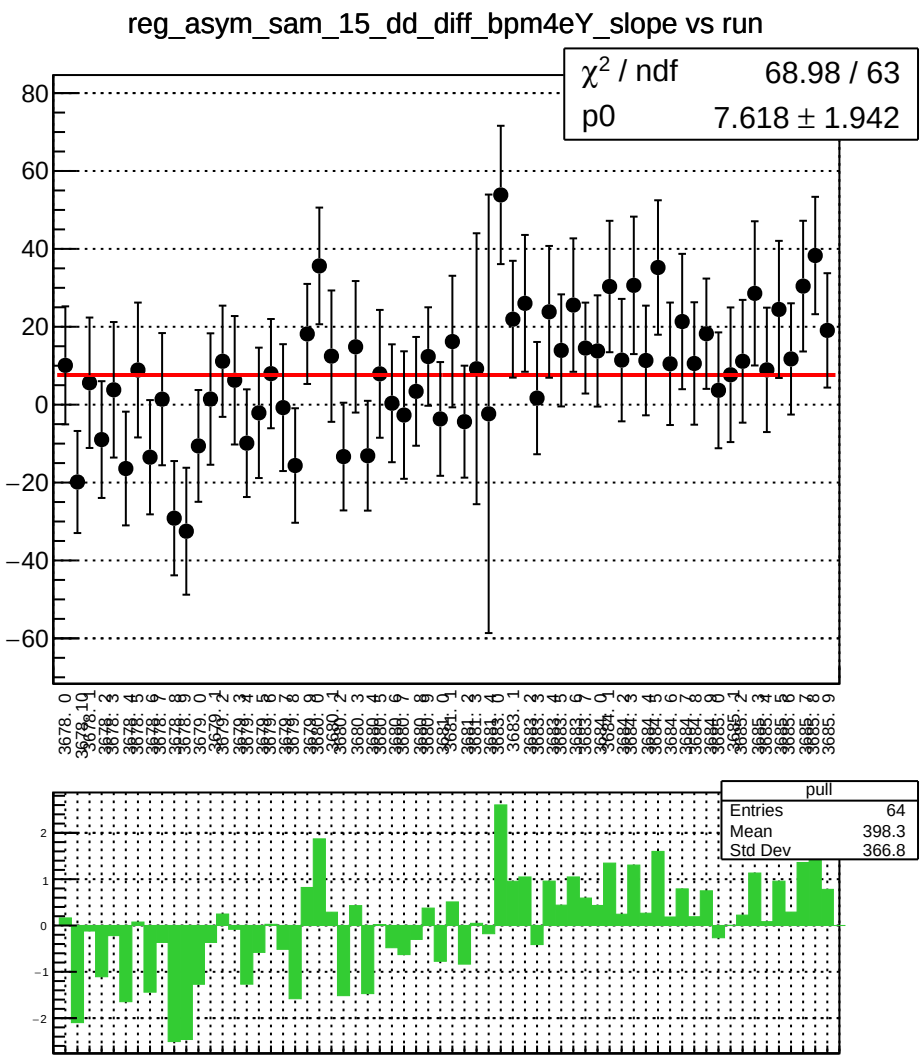

pull1D
Entries 64
Mean 0.02142
Std Dev 0.6925

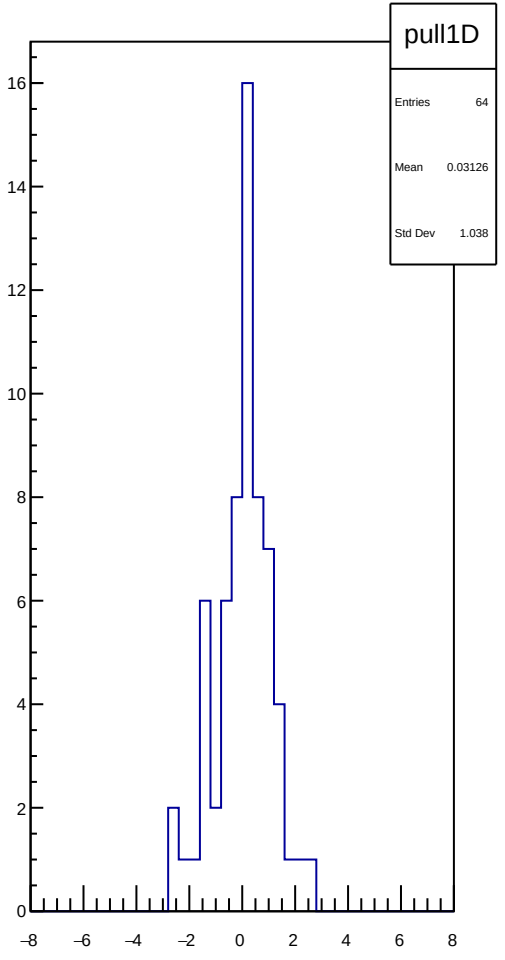

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.74 / 63
p0 −191.5 ± 1.247
pull
Entries 64
Mean 415
Std Dev 383.2

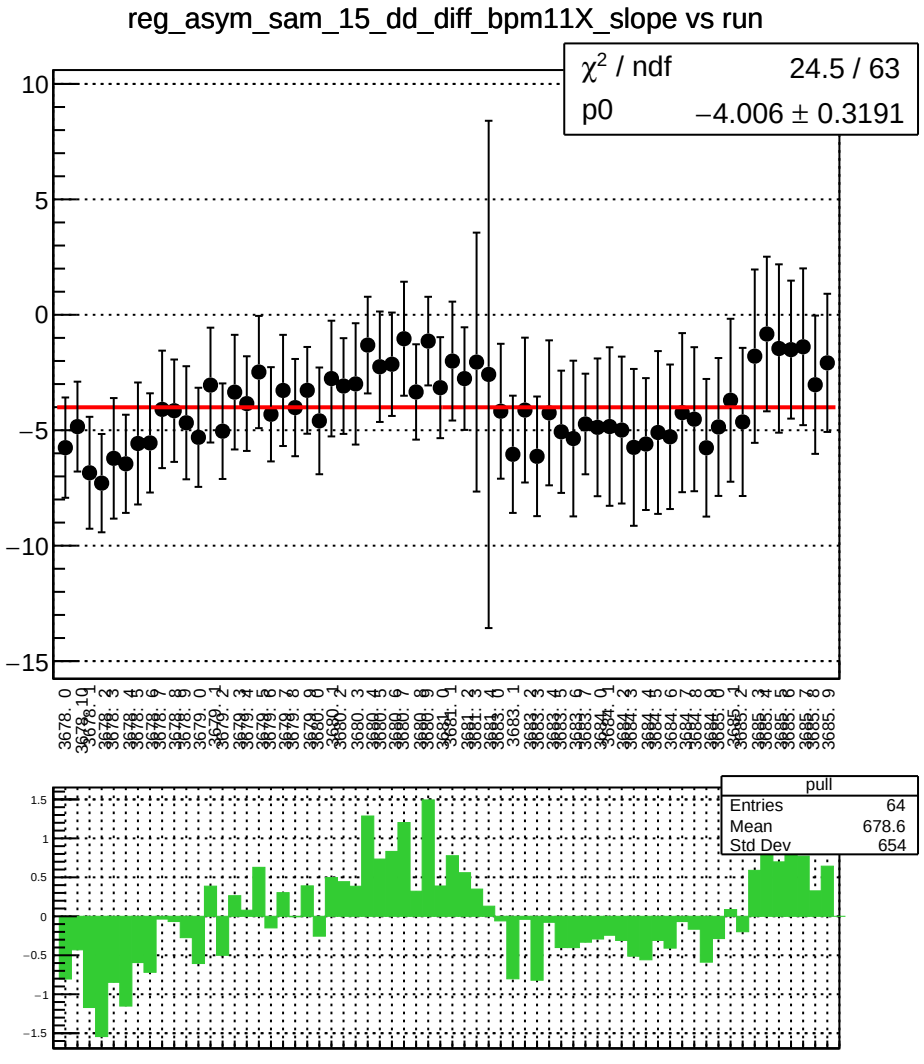

pull1D
Entries 64
Mean −0.02709
Std Dev 0.9818

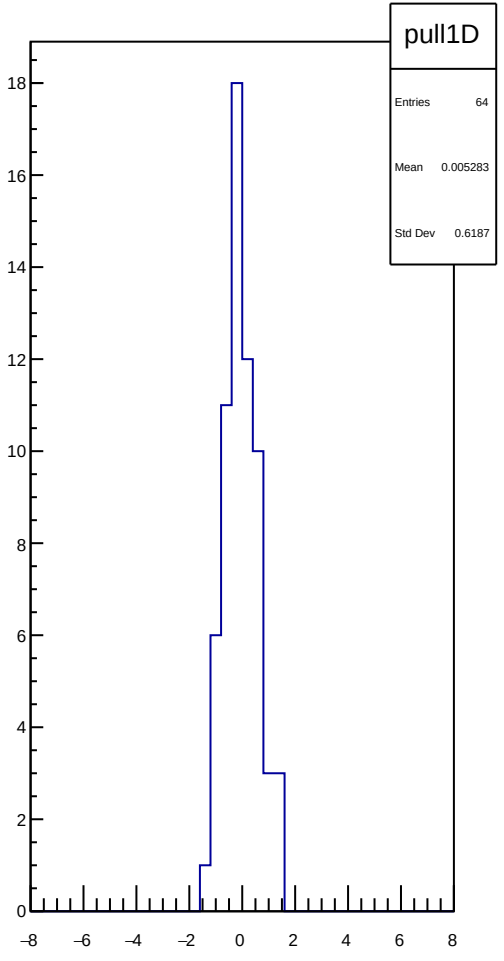

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.37 / 63
p0 −3.763 ± 0.3233
pull
Entries 64
Mean 180.5
Std Dev 141.5

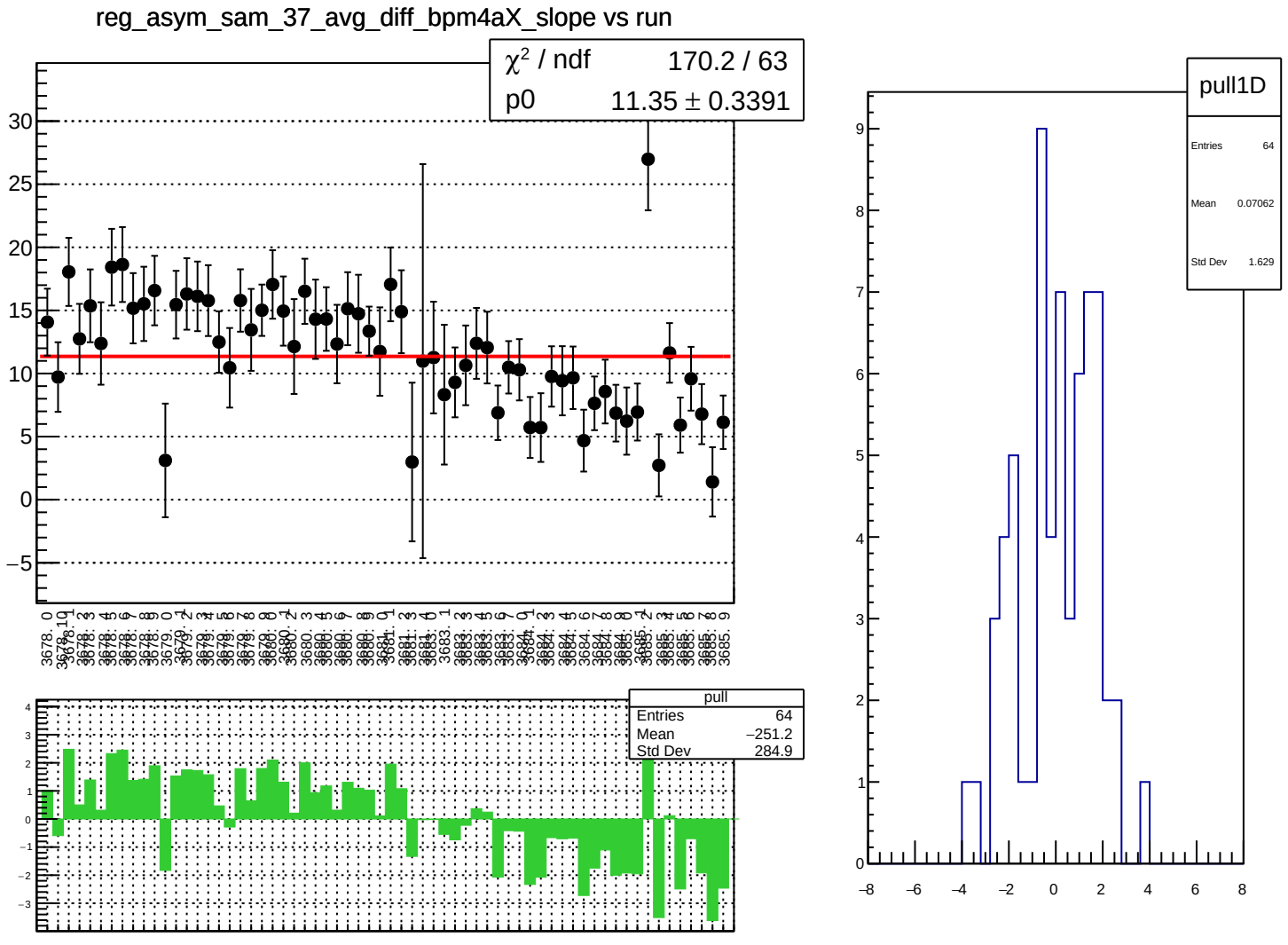

pull1D
Entries 64
Mean −0.02951
Std Dev 0.8321

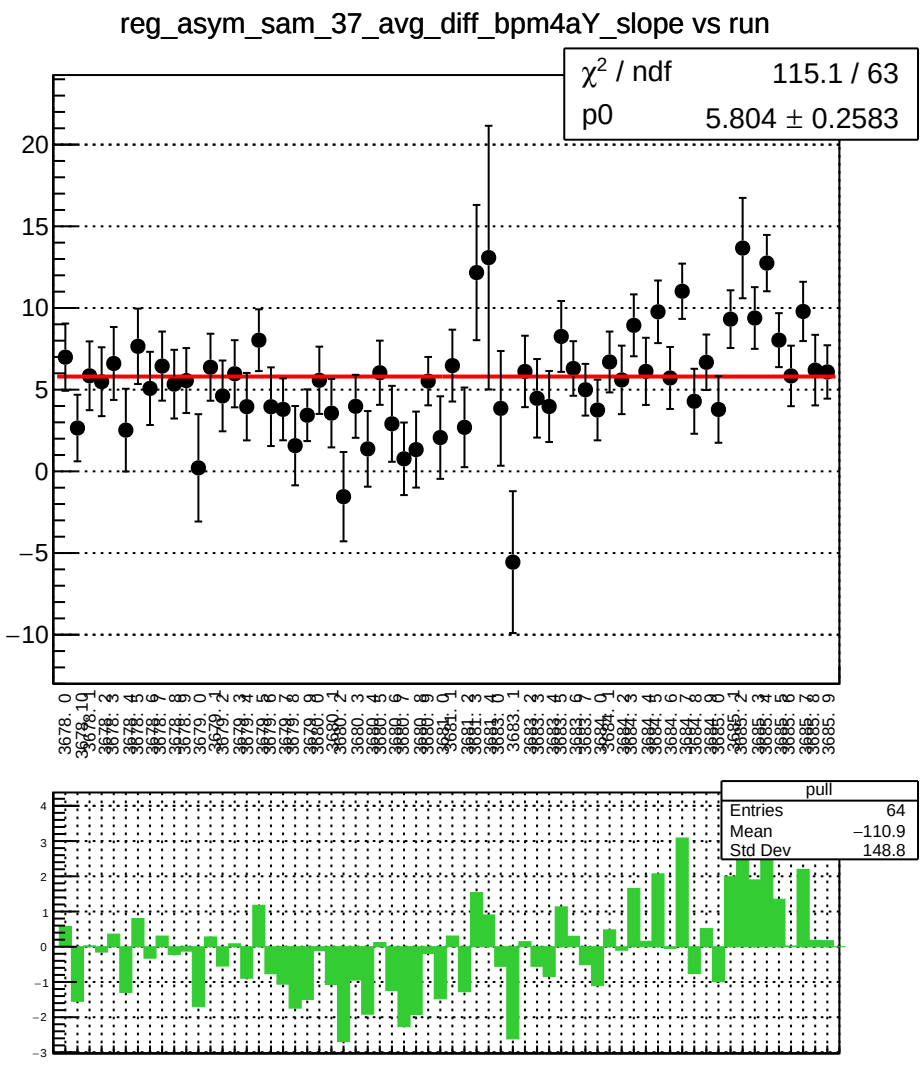

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 68.98 / 63
p0 7.618 ± 1.942
pull
Entries 64
Mean 398.3
Std Dev 366.8

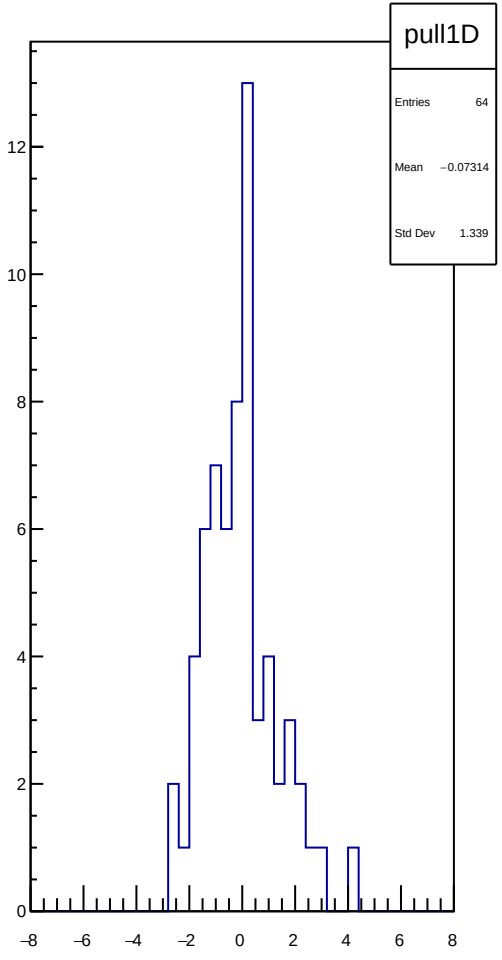

pull1D
Entries 64
Mean 0.03126
Std Dev 1.038

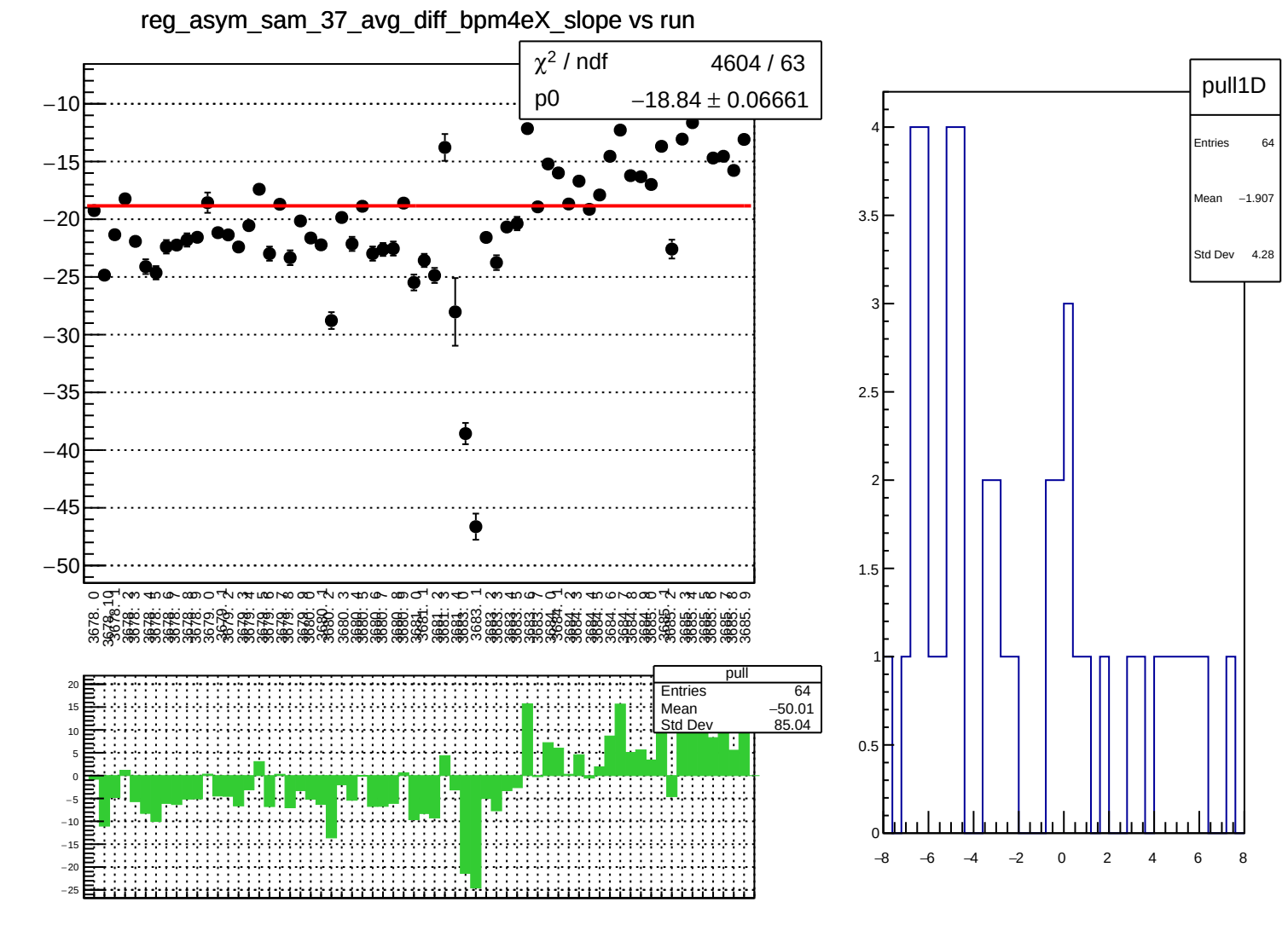

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 24.5 / 63
p0 −4.006 ± 0.3191
pull
Entries 64
Mean 678.6
Std Dev 654

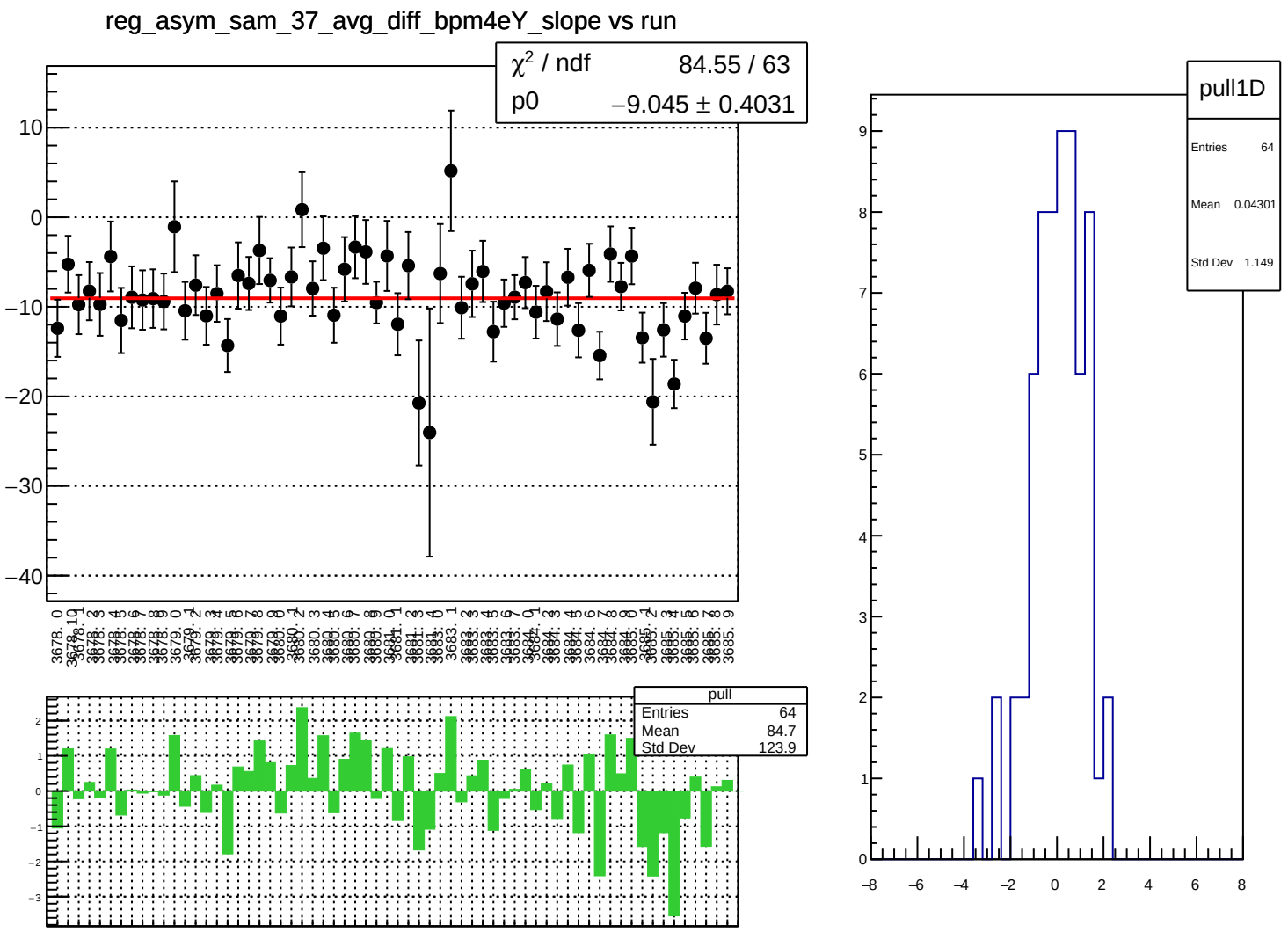

pull1D
Entries 64
Mean 0.005283
Std Dev 0.6187

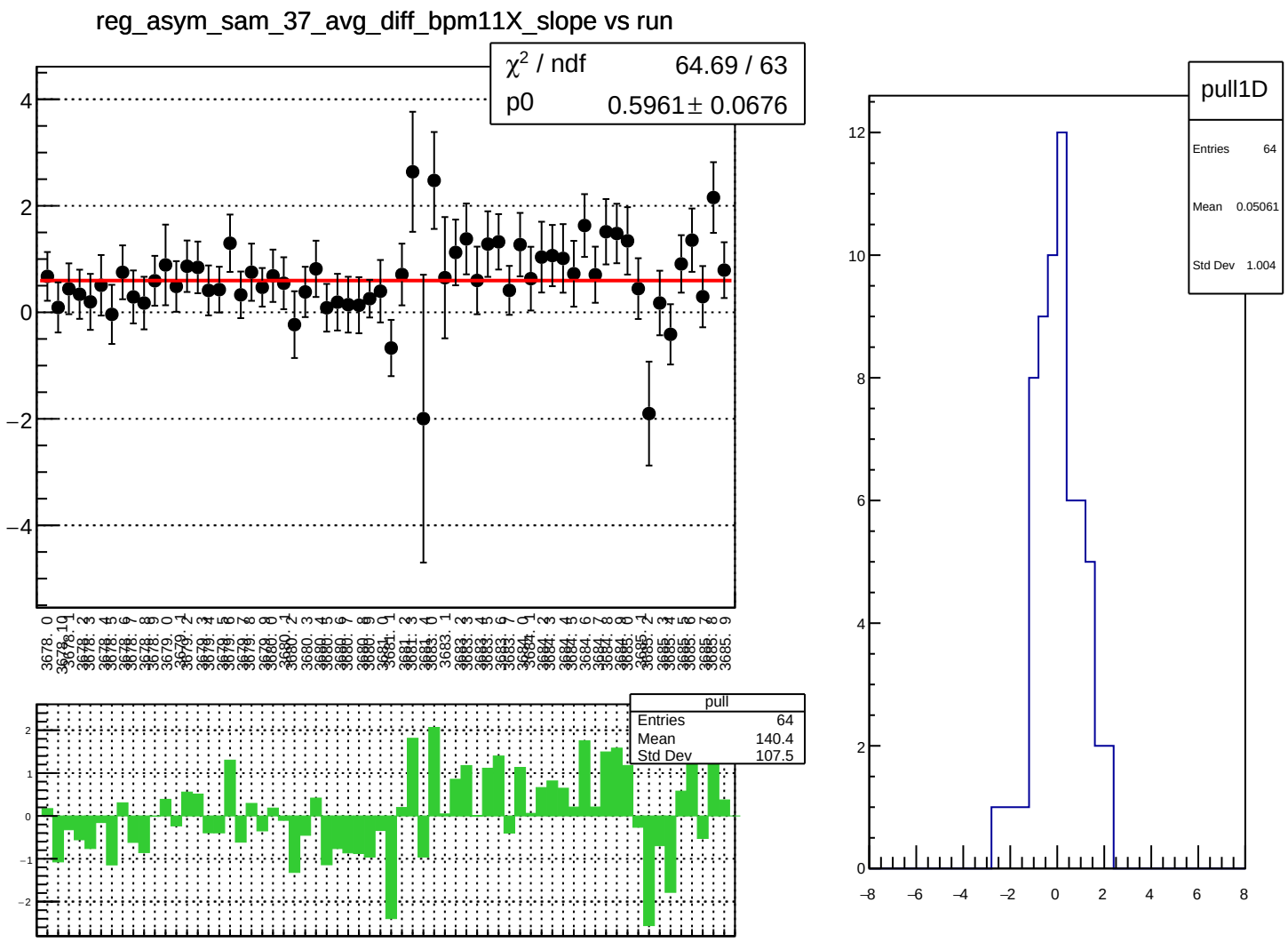

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 170.2 / 63
p0 11.35 ± 0.3391
pull
Entries 64
Mean −251.2
Std Dev 284.9
pull1D
Entries 64
Mean 0.07062
Std Dev 1.629

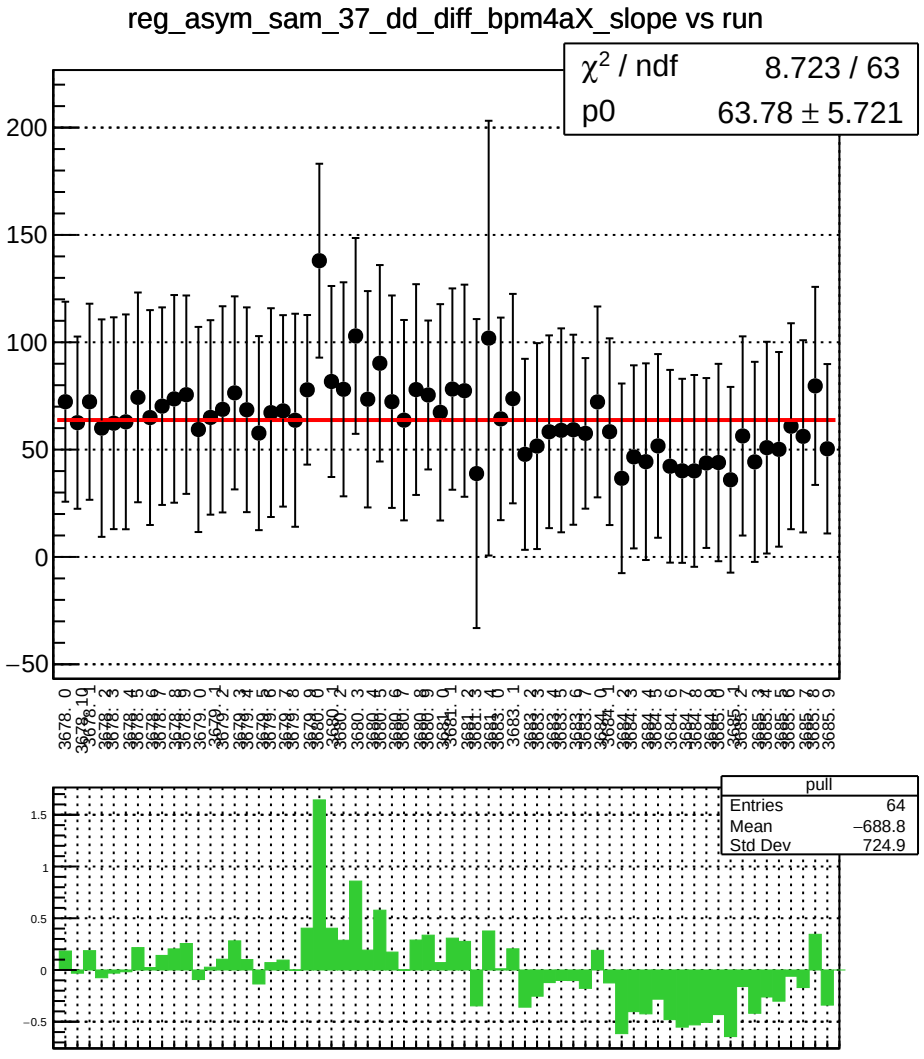

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 115.1 / 63
p0 5.804 ± 0.2583
pull
Entries 64
Mean −110.9
Std Dev 148.8

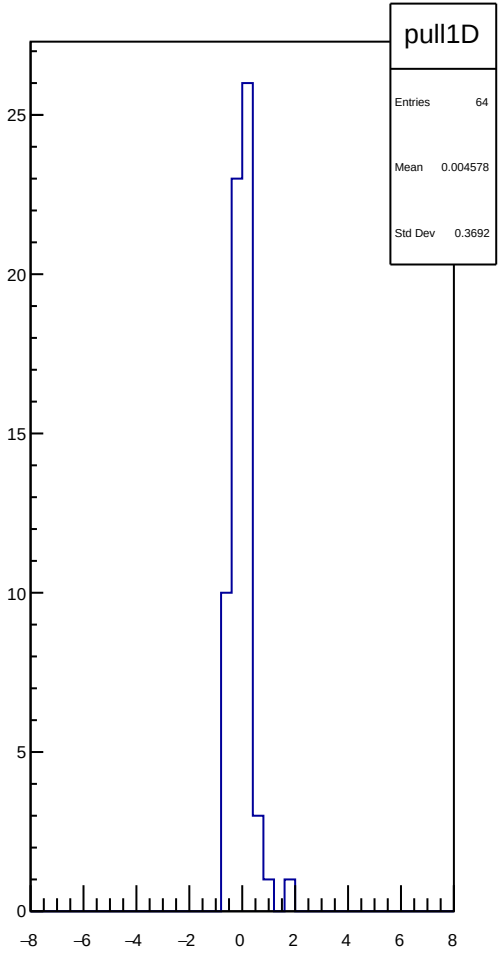

pull1D
Entries 64
Mean −0.07314
Std Dev 1.339

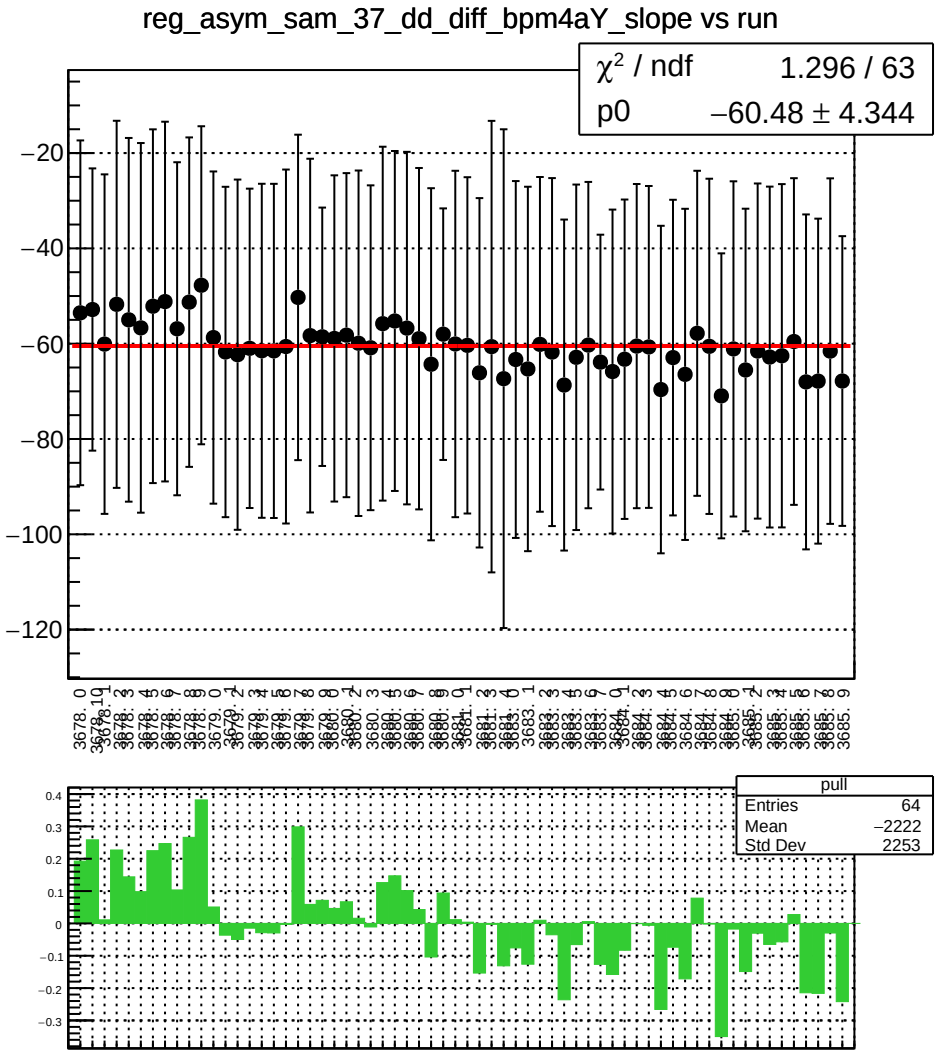

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 4604 / 63
p0 −18.84 ± 0.06661
pull
Entries 64
Mean −50.01
Std Dev 85.04
pull1D
Entries 64
Mean −1.907
Std Dev 4.28

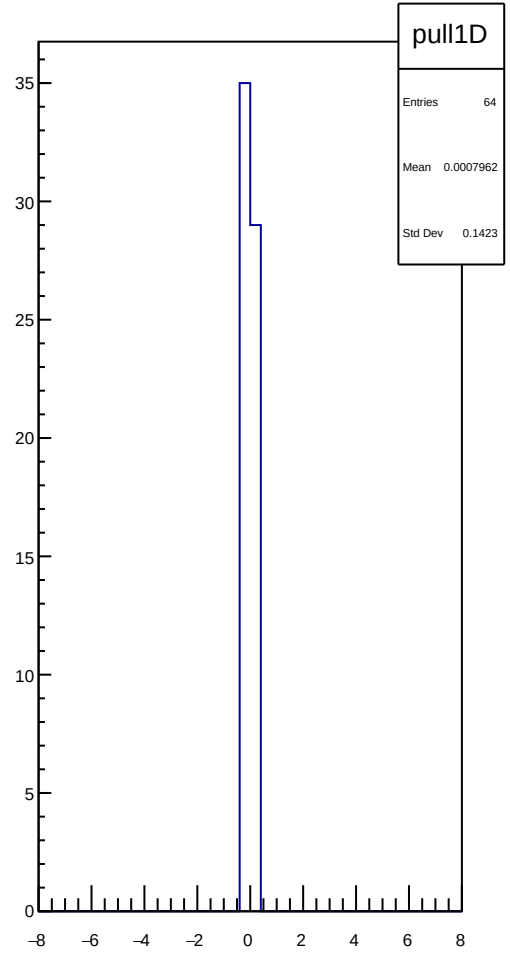

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 84.55 / 63
p0 −9.045 ± 0.4031
pull
Entries 64
Mean −84.7
Std Dev 123.9
pull1D
Entries 64
Mean 0.04301
Std Dev 1.149

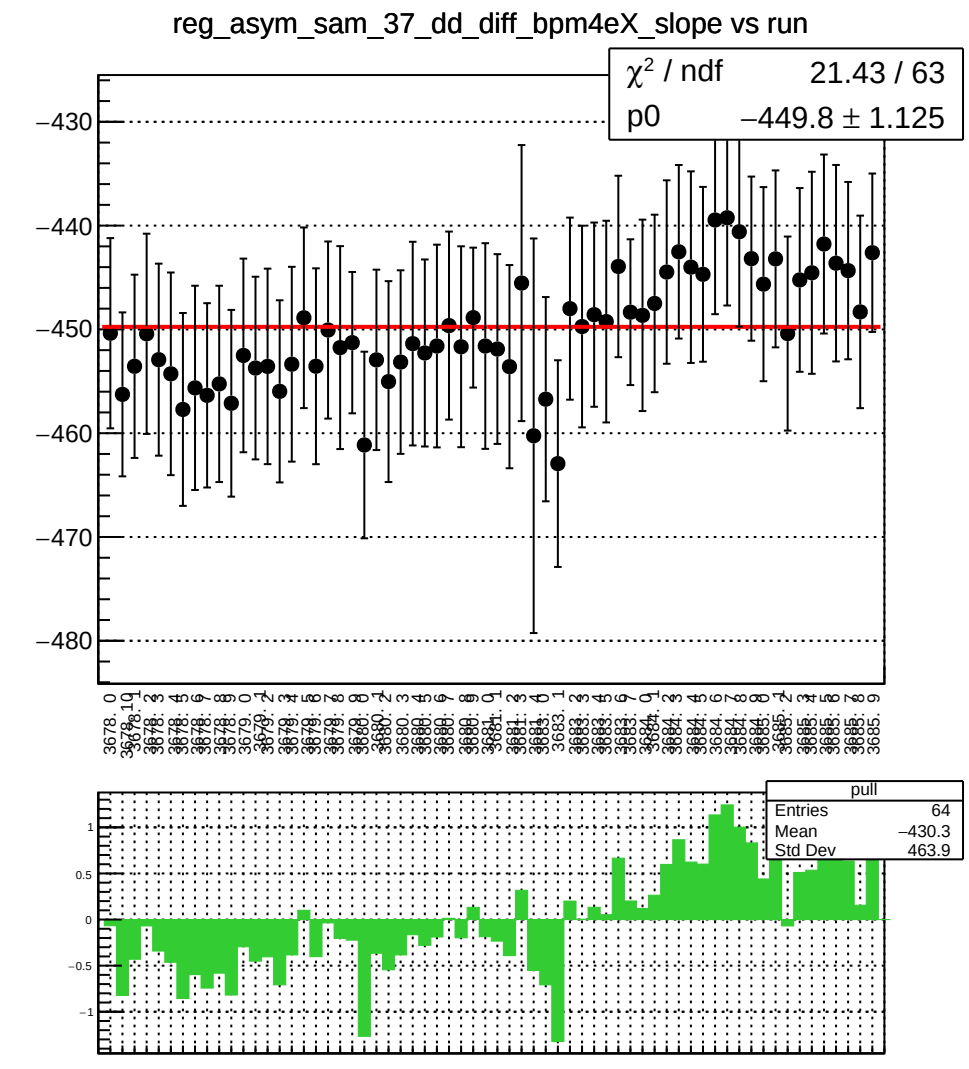

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 64.69 / 63
p0 0.5961 ± 0.0676
pull
Entries 64
Mean 140.4
Std Dev 107.5
pull1D
Entries 64
Mean 0.05061
Std Dev 1.004

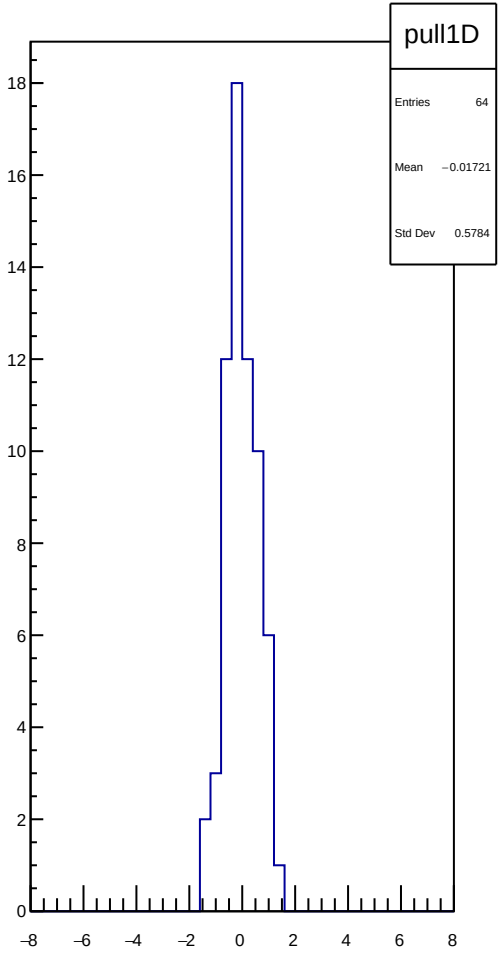

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 8.723 / 63
p0 63.78 ± 5.721
pull
Entries 64
Mean −688.8
Std Dev 724.9

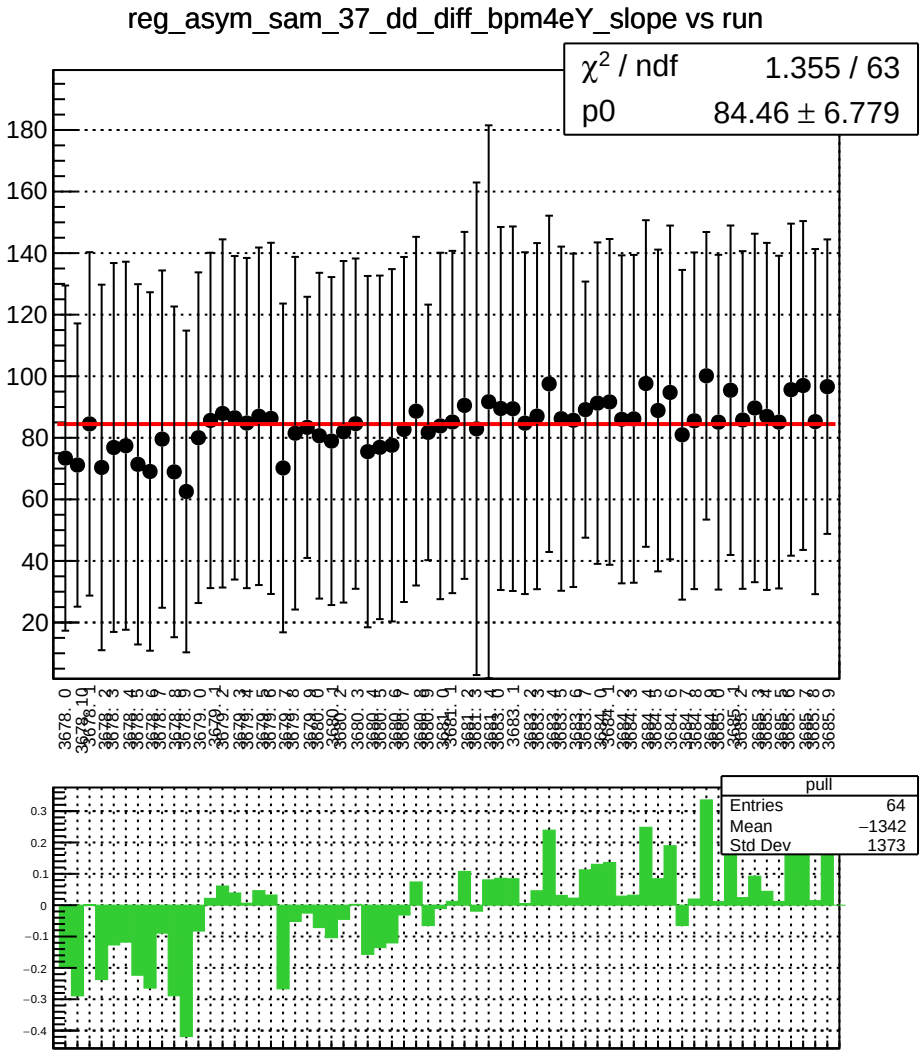

pull1D
Entries 64
Mean 0.004578
Std Dev 0.3692

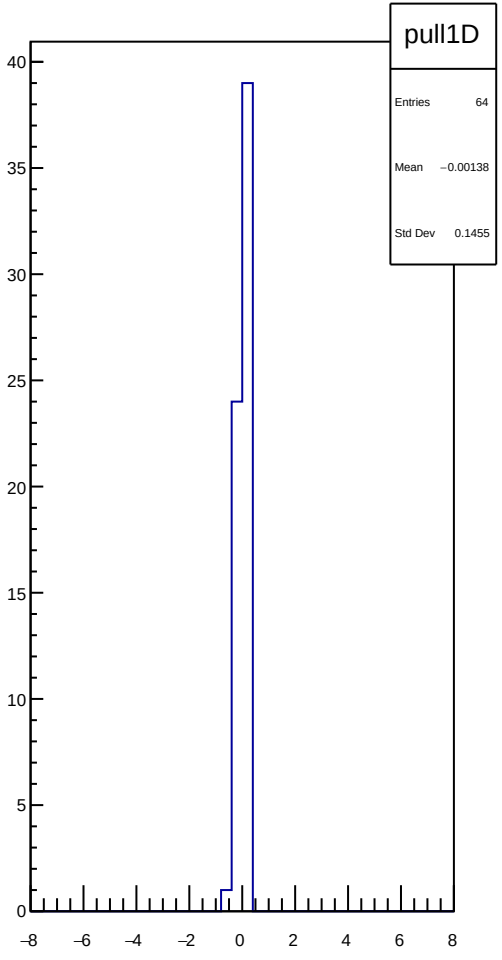

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.296 / 63
p0 −60.48 ± 4.344
pull
Entries 64
Mean −2222
Std Dev 2253

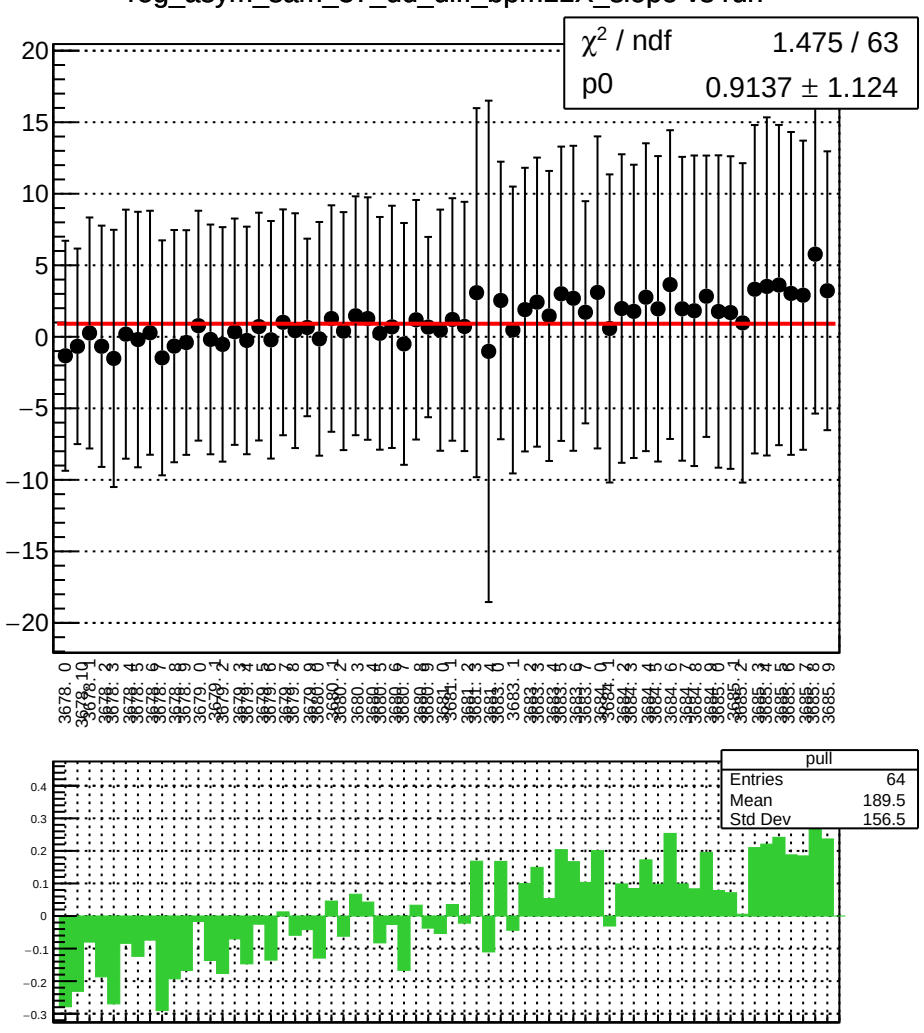

pull1D
Entries 64
Mean 0.0007962
Std Dev 0.1423

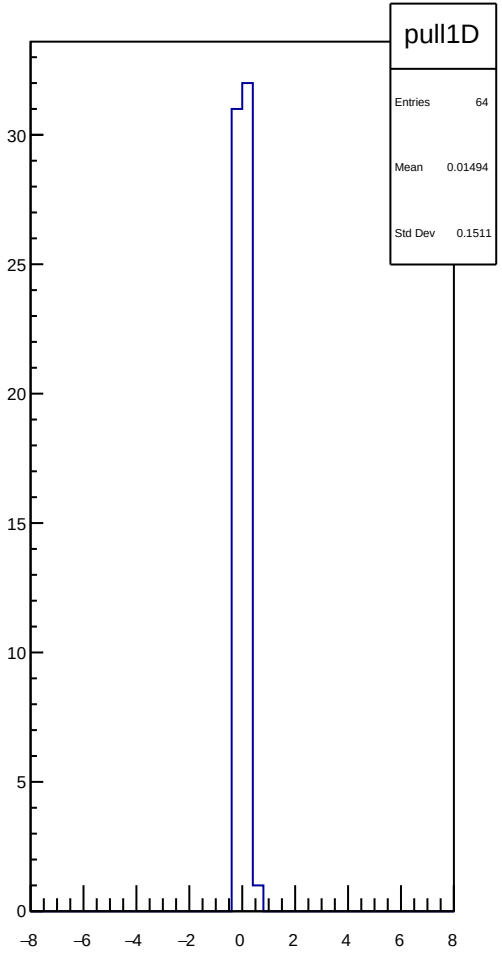

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.43 / 63
p0 −449.8 ± 1.125
pull
Entries 64
Mean −430.3
Std Dev 463.9

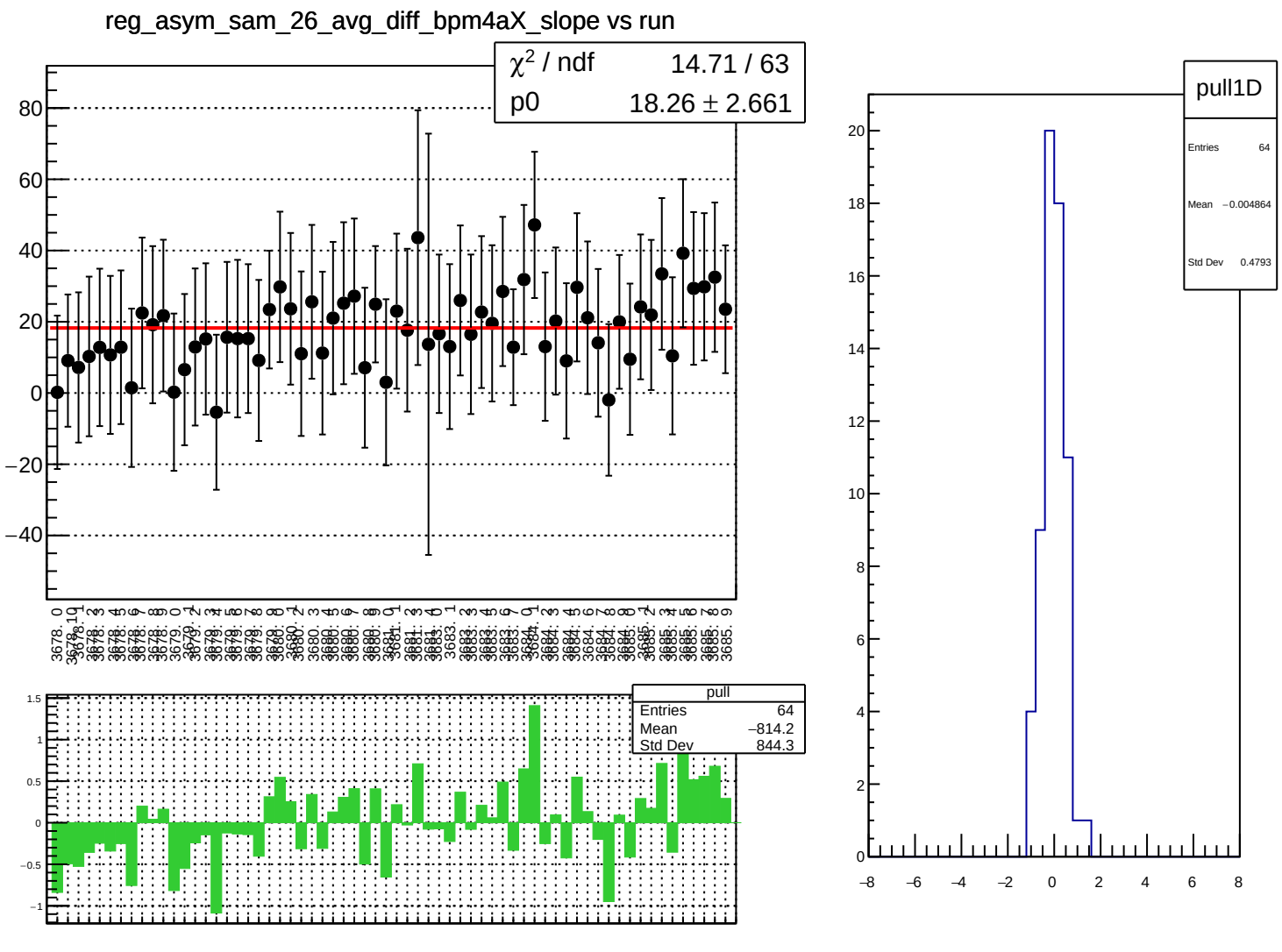

pull1D
Entries 64
Mean −0.01721
Std Dev 0.5784

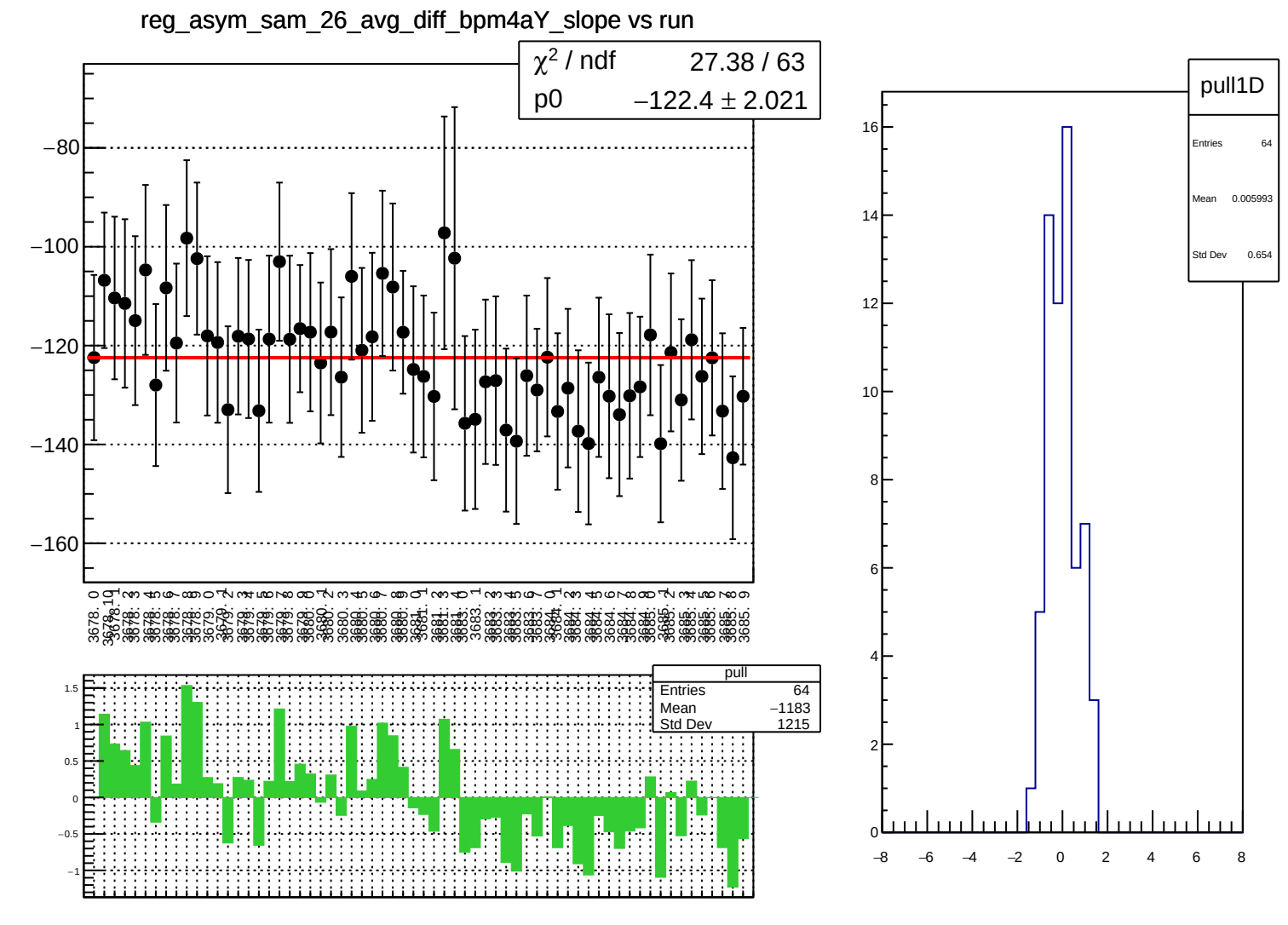

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.355 / 63
p0 84.46 ± 6.779
pull
Entries 64
Mean −1342
Std Dev 1373

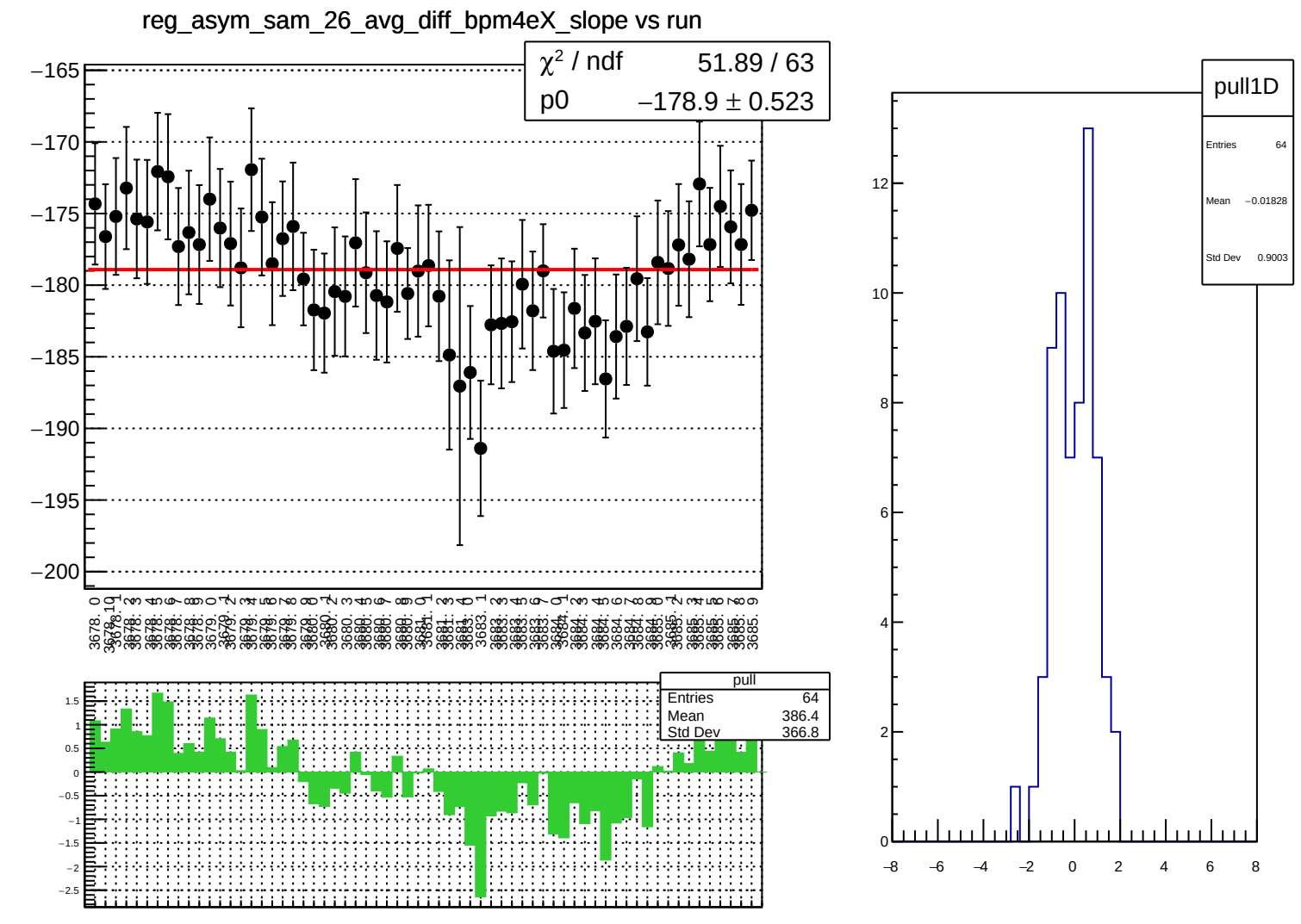

pull1D
Entries 64
Mean −0.00138
Std Dev 0.1455

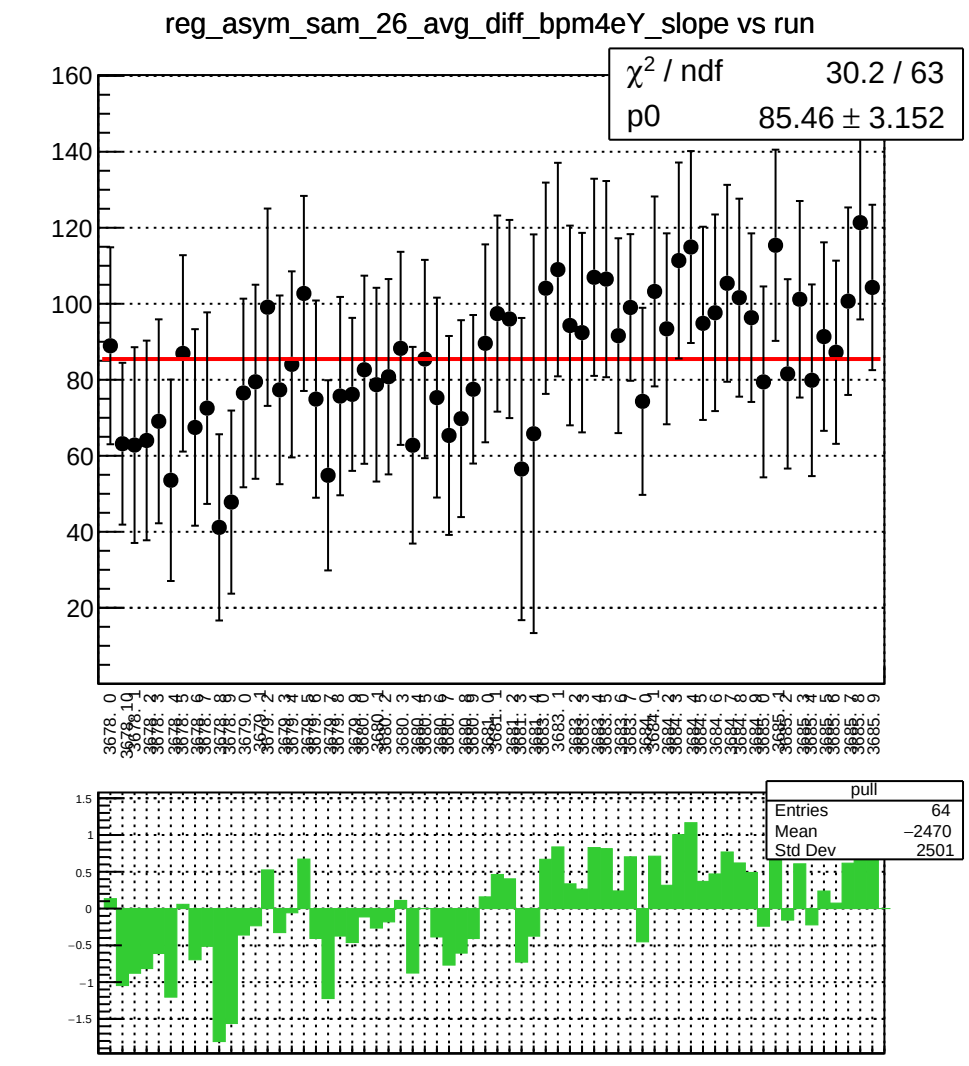

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 1.475 / 63
p0 0.9137 ± 1.124
pull
Entries 64
Mean 189.5
Std Dev 156.5

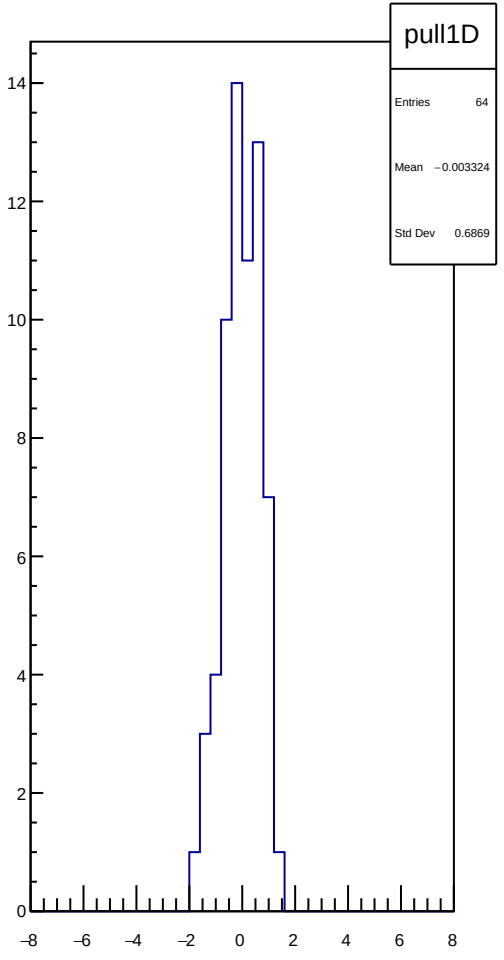

pull1D
Entries 64
Mean 0.01494
Std Dev 0.1511

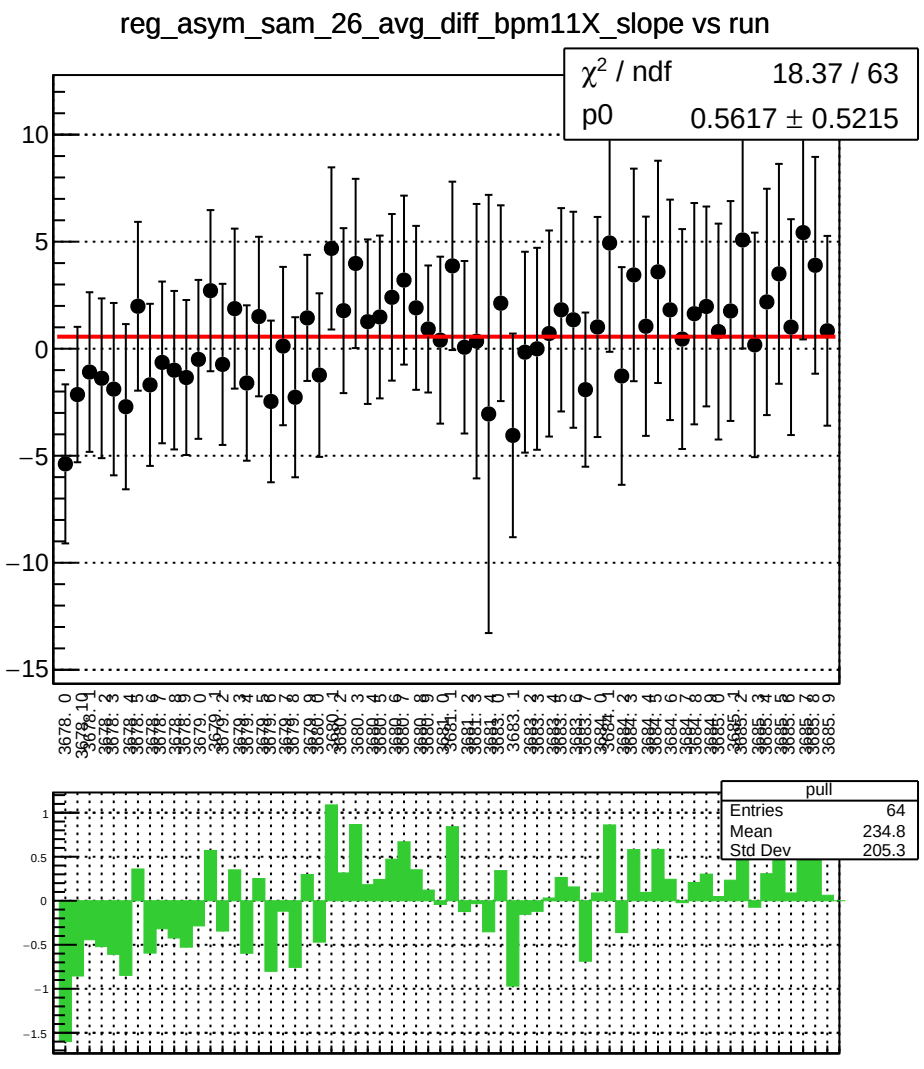

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 14.71 / 63
p0 18.26 ± 2.661
pull
Entries 64
Mean −814.2
Std Dev 844.3
pull1D
Entries 64
Mean −0.004864
Std Dev 0.4793

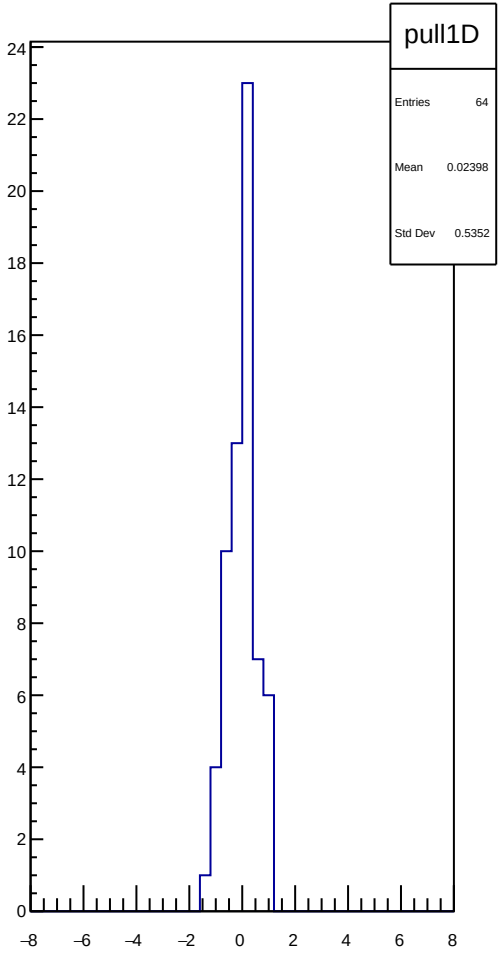

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.38 / 63
p0 −122.4 ± 2.021
pull
Entries 64
Mean −1183
Std Dev 1215
pull1D
Entries 64
Mean 0.005993
Std Dev 0.654

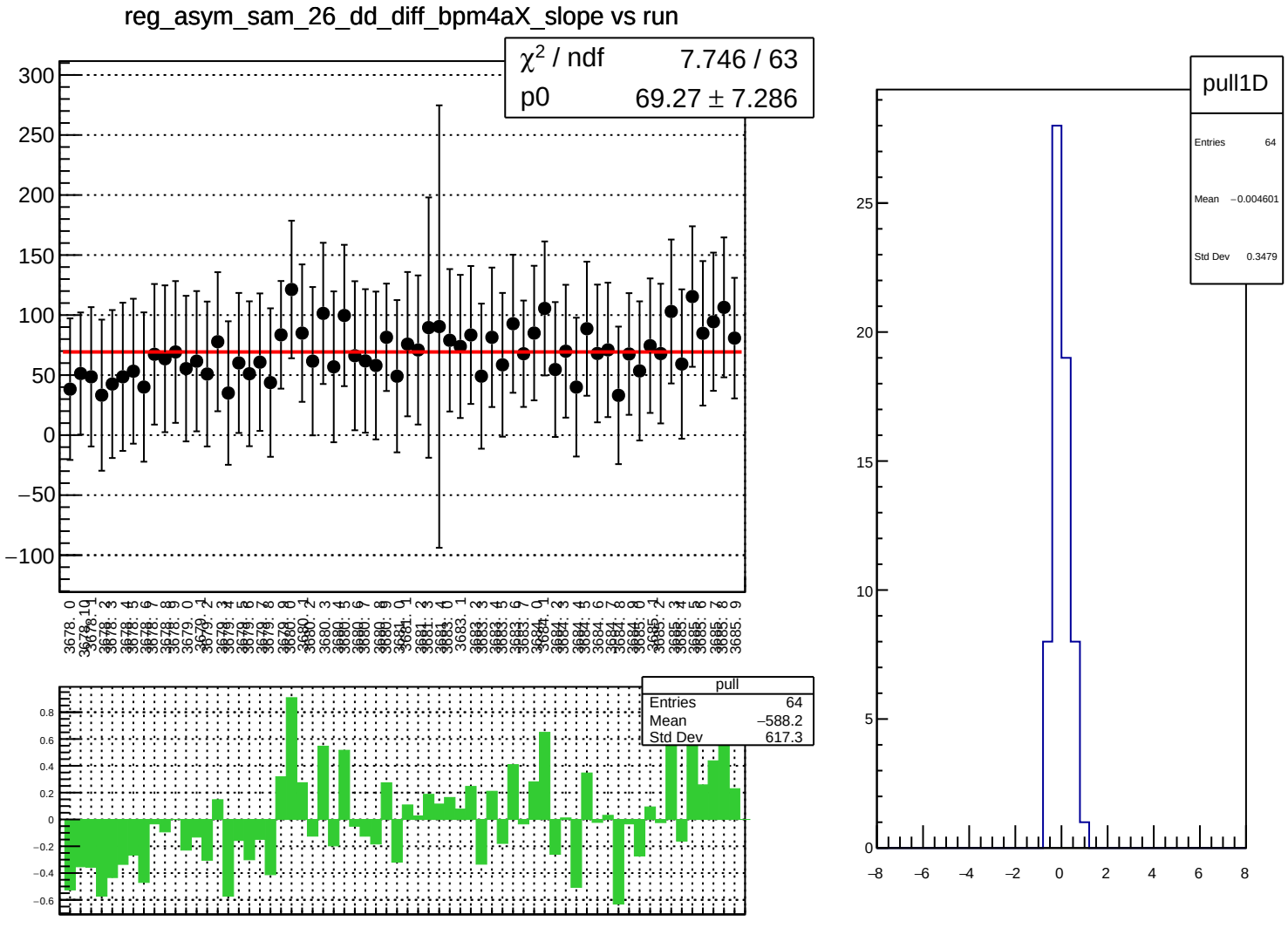

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.89 / 63
p0 −178.9 ± 0.523
pull
Entries 64
Mean 386.4
Std Dev 366.8
pull1D
Entries 64
Mean −0.01828
Std Dev 0.9003

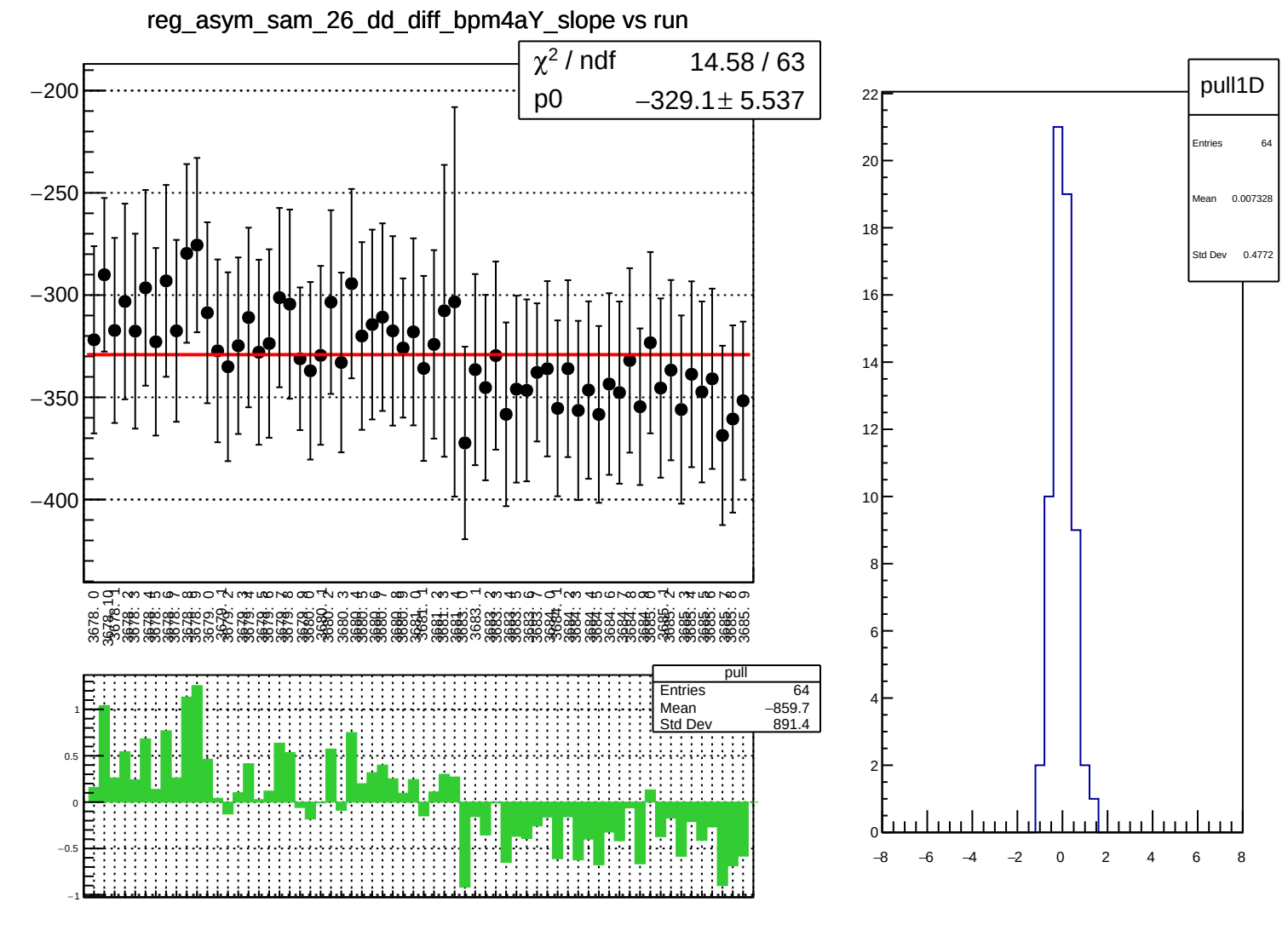

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.2 / 63
p0 85.46 ± 3.152
pull
Entries 64
Mean −2470
Std Dev 2501

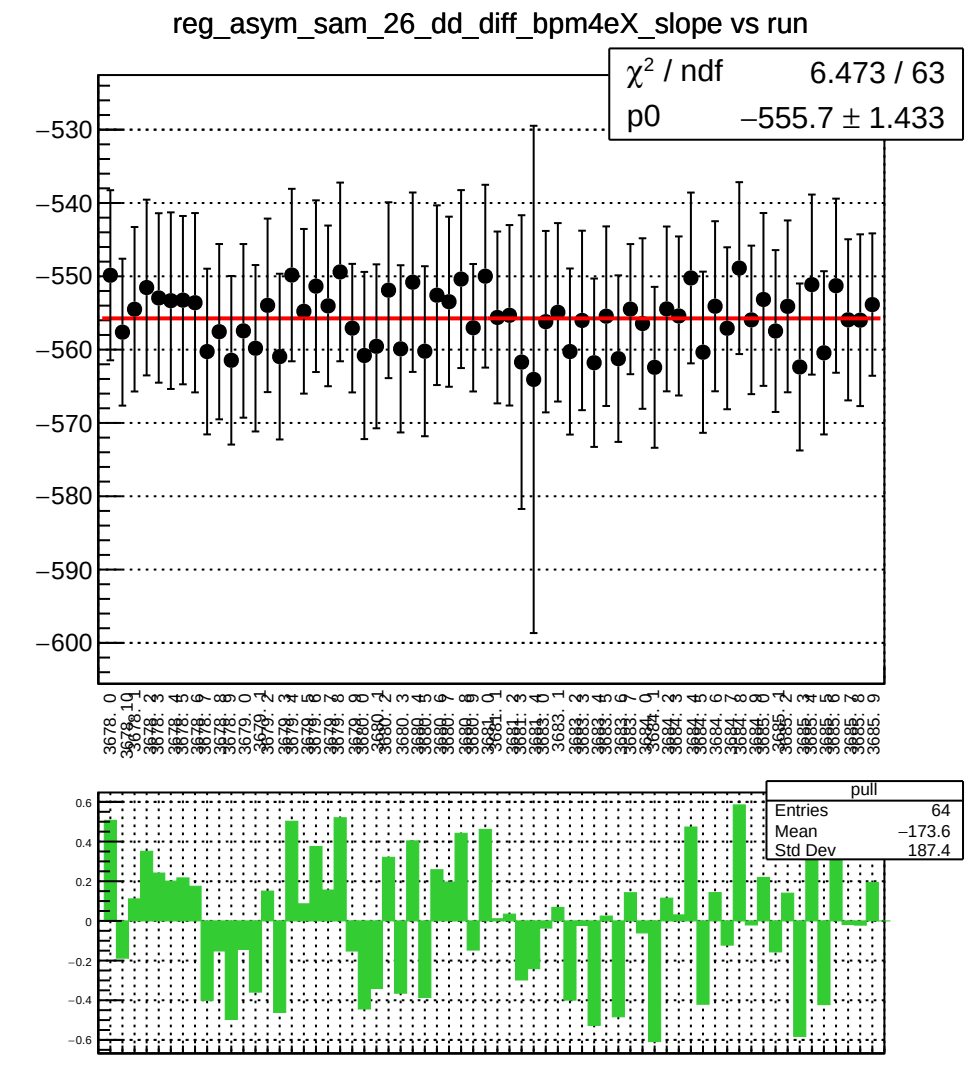

pull1D
Entries 64
Mean −0.003324
Std Dev 0.6869

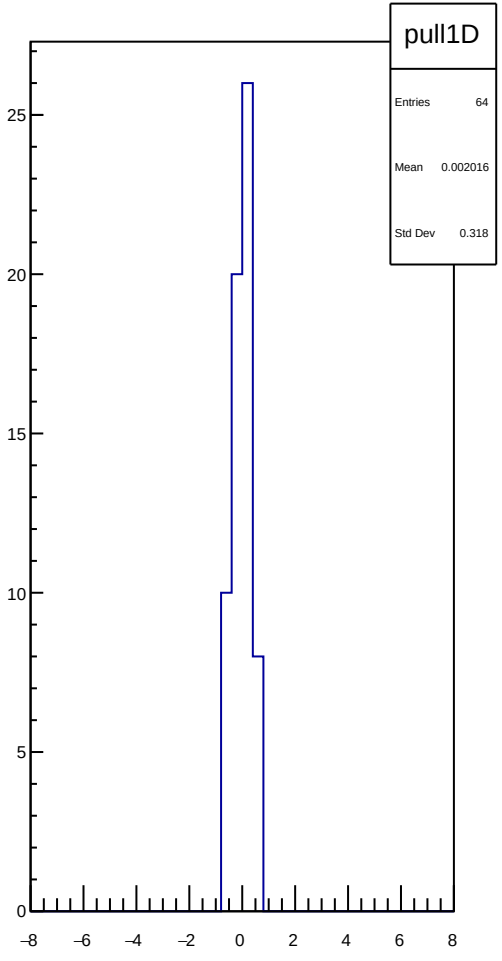

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 18.37 / 63
p0 0.5617 ± 0.5215
pull
Entries 64
Mean 234.8
Std Dev 205.3

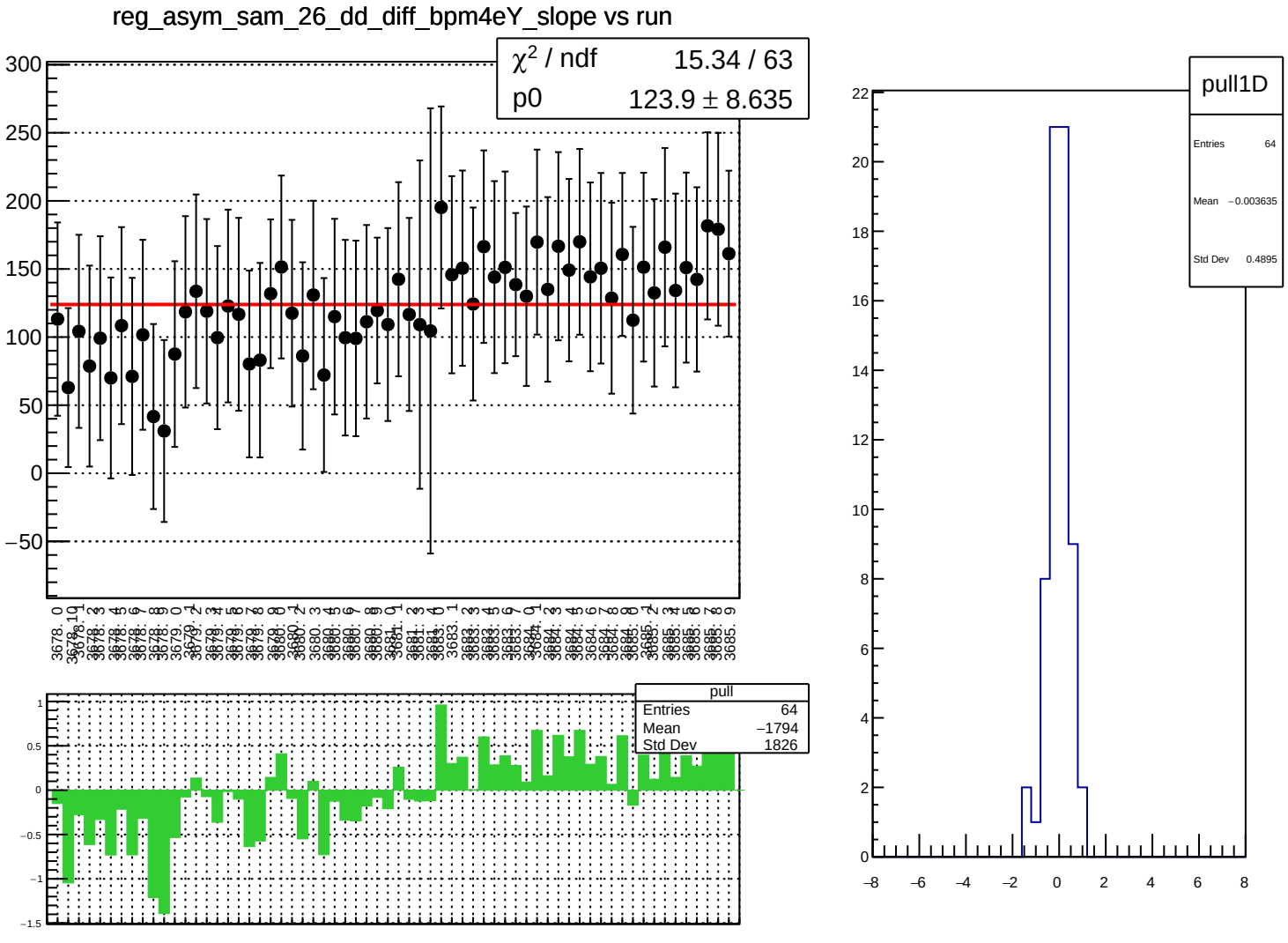

pull1D
Entries 64
Mean 0.02398
Std Dev 0.5352

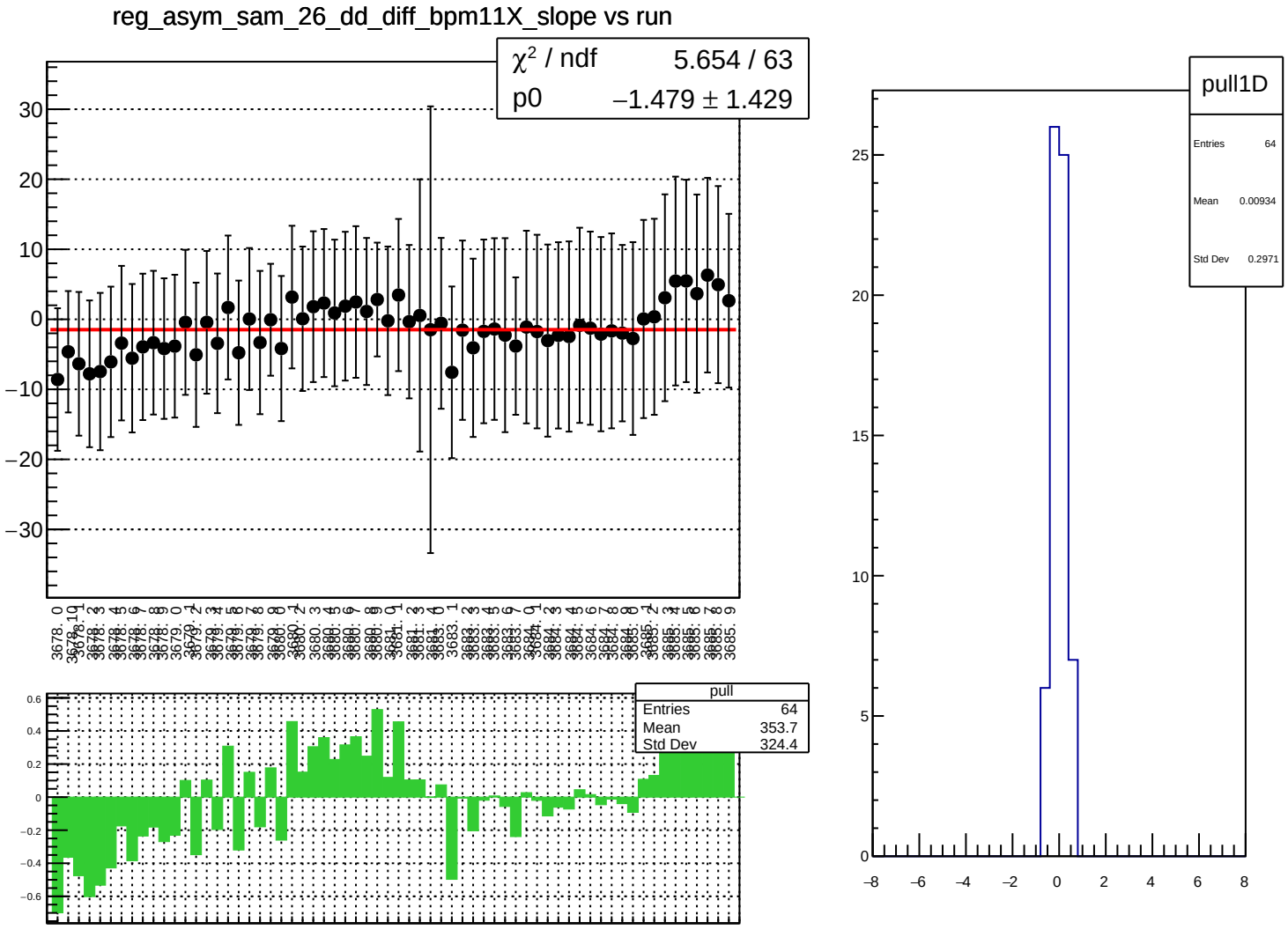

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.746 / 63
p0 69.27 ± 7.286
pull
Entries 64
Mean −588.2
Std Dev 617.3
pull1D
Entries 64
Mean −0.004601
Std Dev 0.3479

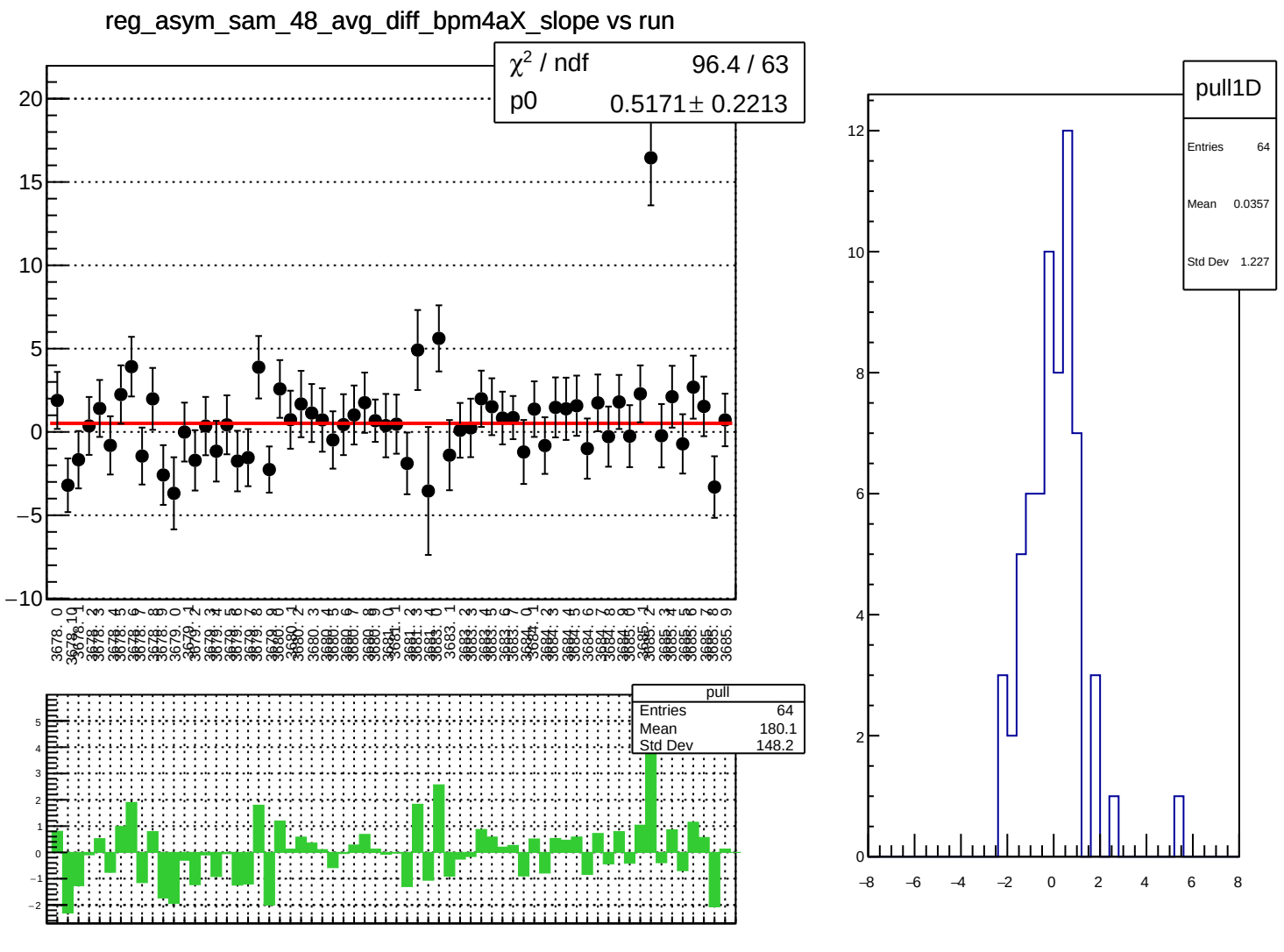

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.58 / 63
p0 −329.1 ± 5.537
pull
Entries 64
Mean −859.7
Std Dev 891.4
pull1D
Entries 64
Mean 0.007328
Std Dev 0.4772

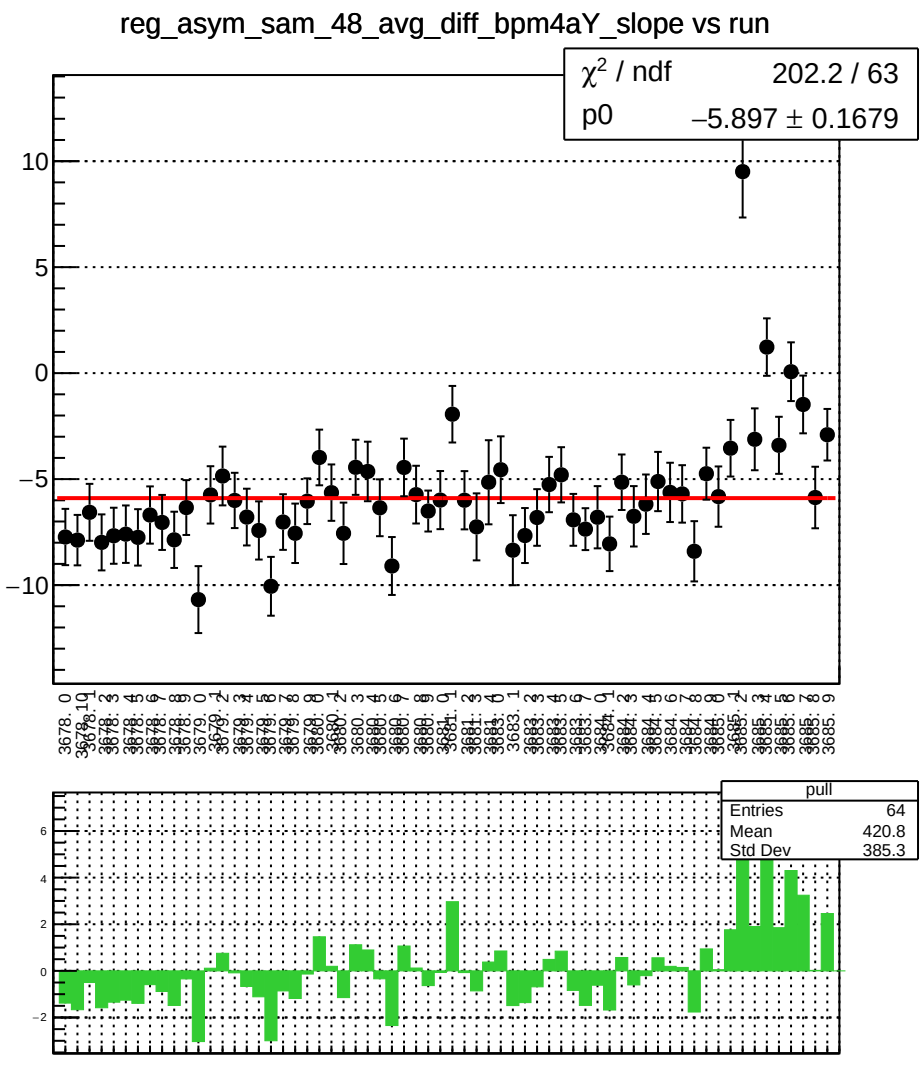

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.473 / 63
p0 −555.7 ± 1.433
pull
Entries 64
Mean −173.6
Std Dev 187.4

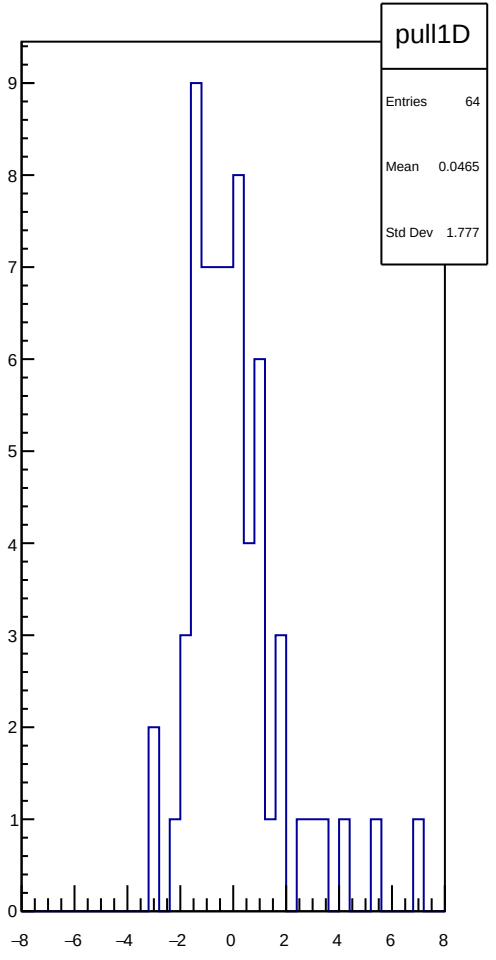

pull1D
Entries 64
Mean 0.002016
Std Dev 0.318

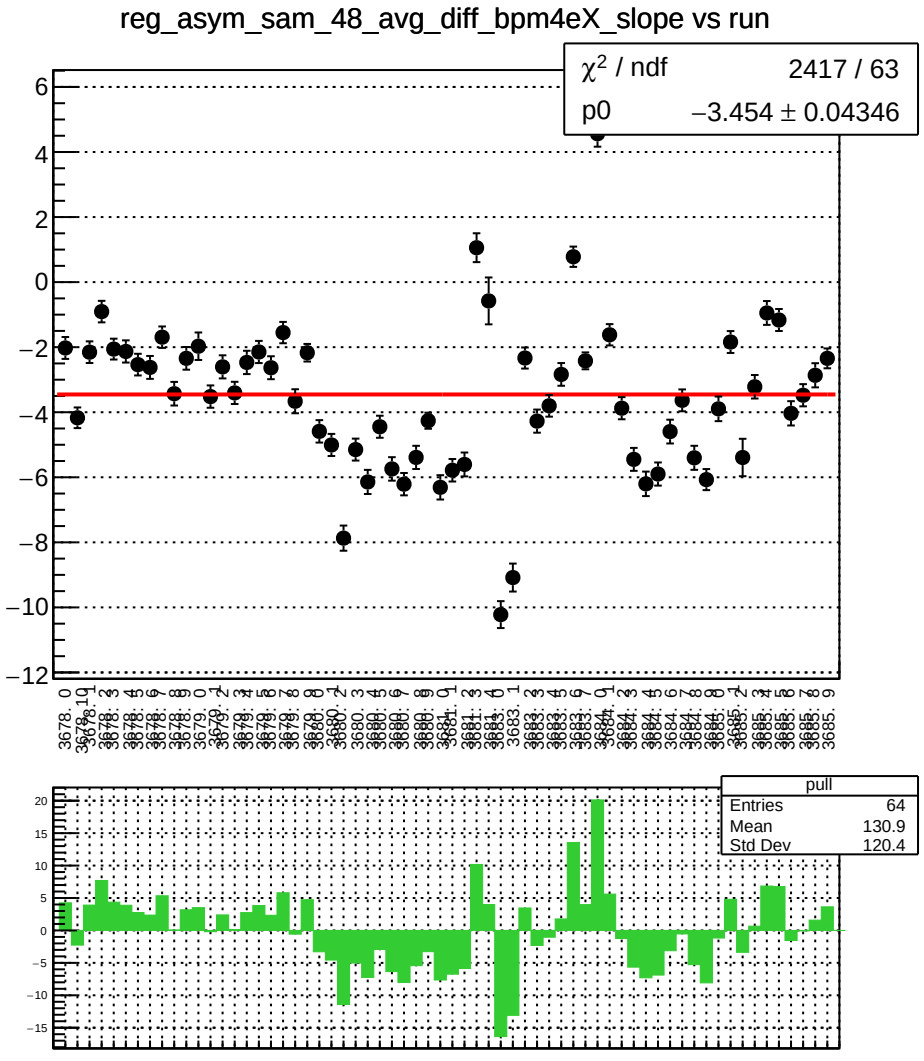

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.34 / 63
p0 123.9 ± 8.635
pull
Entries 64
Mean −1794
Std Dev 1826
pull1D
Entries 64
Mean −0.003635
Std Dev 0.4895

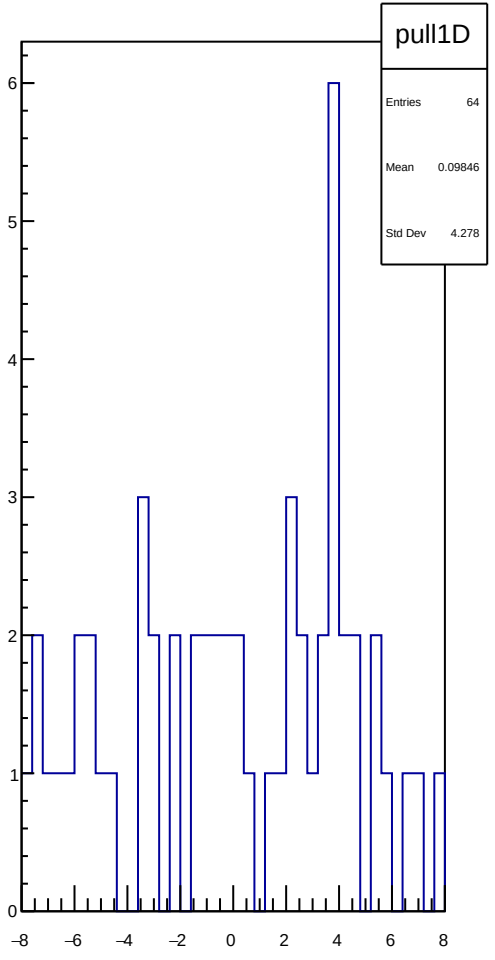

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 5.654 / 63
p0 −1.479 ± 1.429
pull
Entries 64
Mean 353.7
Std Dev 324.4
pull1D
Entries 64
Mean 0.00934
Std Dev 0.2971

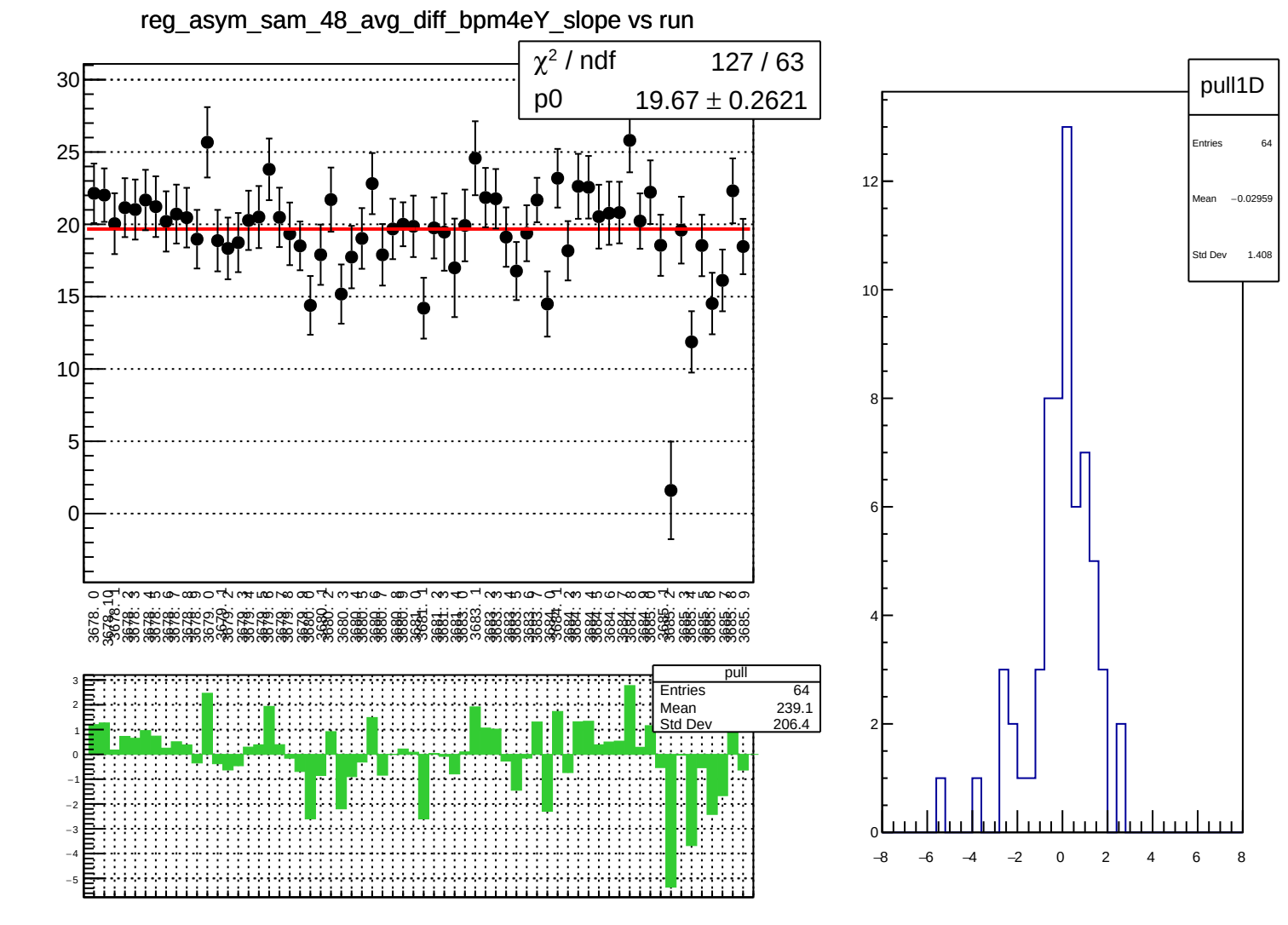

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 96.4 / 63
p0 0.5171± 0.2213
pull
Entries 64
Mean 180.1
Std Dev 148.2
pull1D
Entries 64
Mean 0.0357
Std Dev 1.227

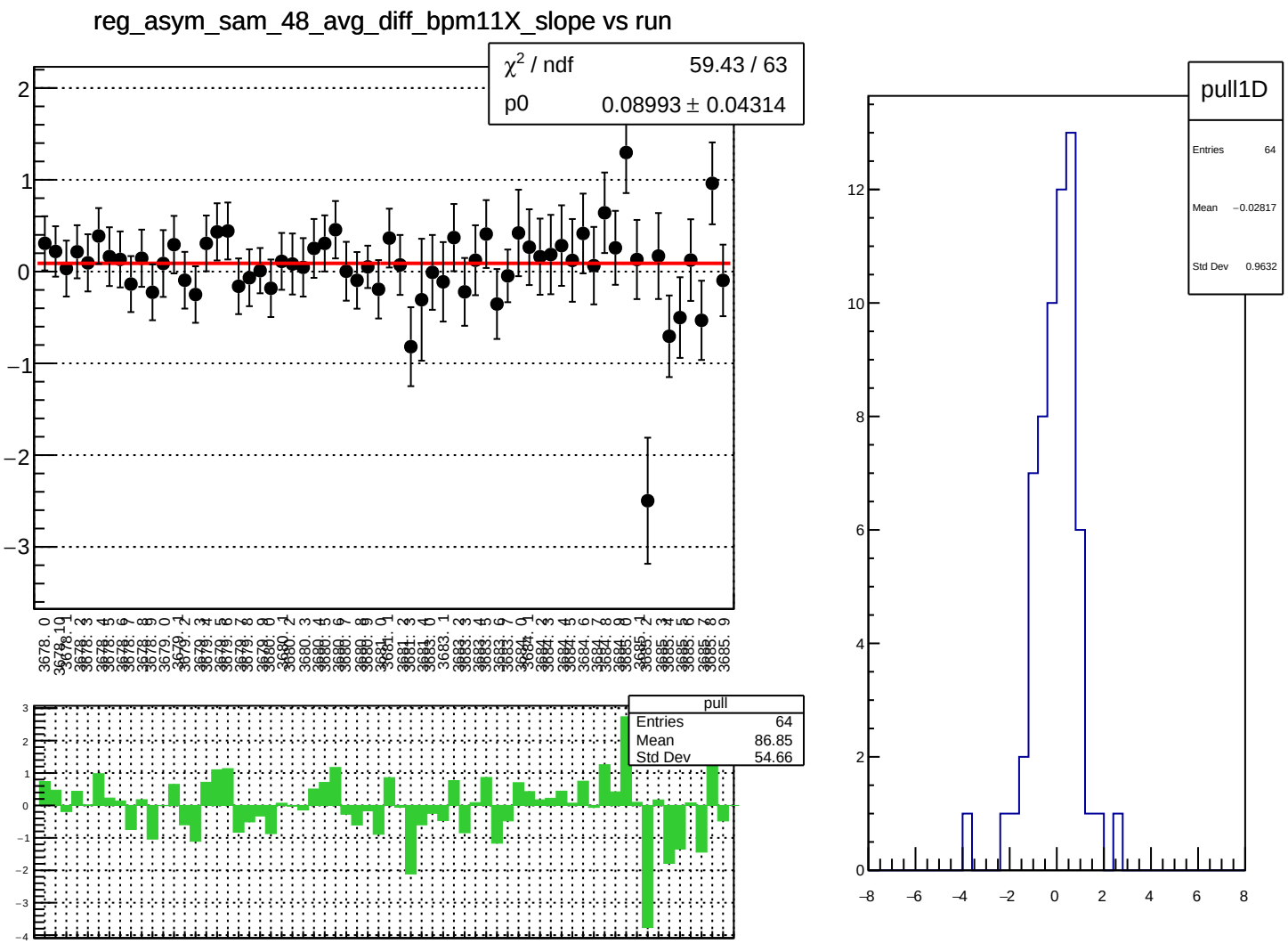

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 202.2 / 63
p0 −5.897 ± 0.1679
pull
Entries 64
Mean 420.8
Std Dev 385.3

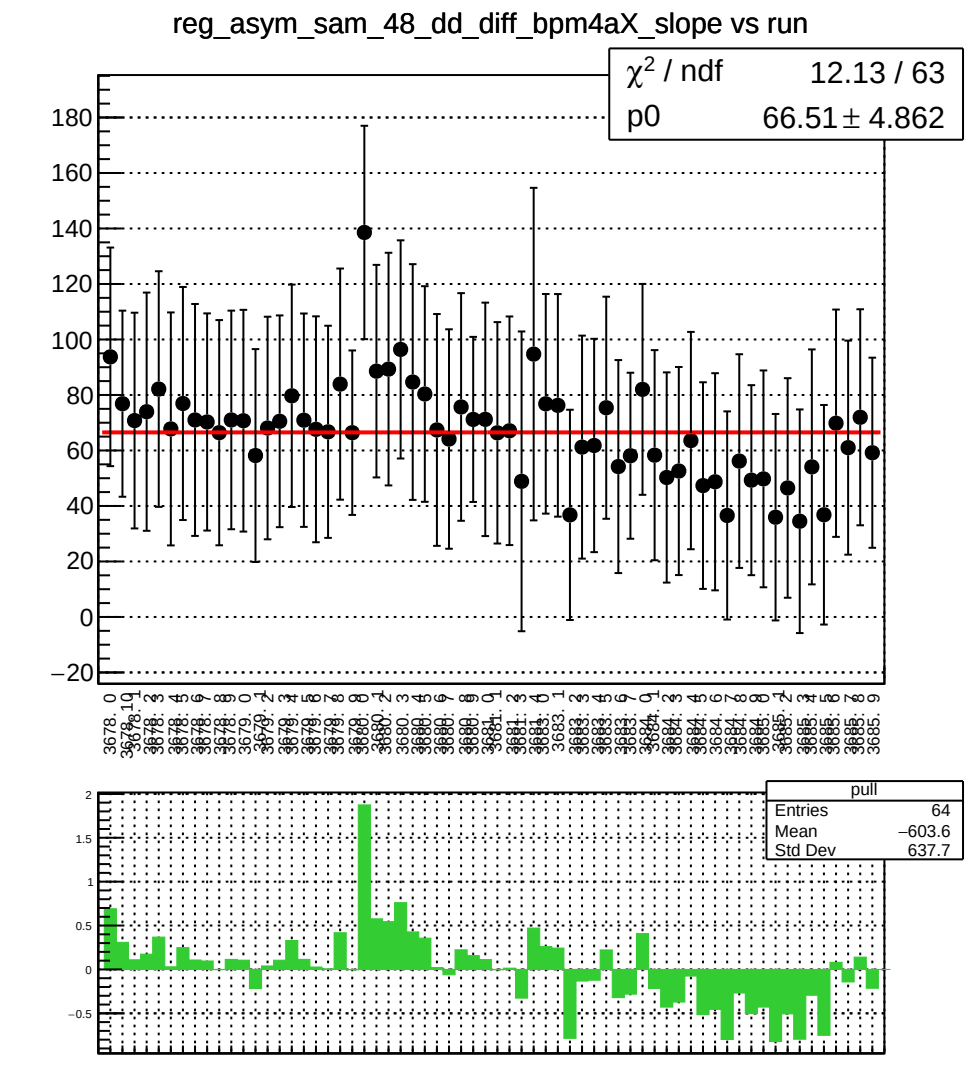

pull1D
Entries 64
Mean 0.0465
Std Dev 1.777

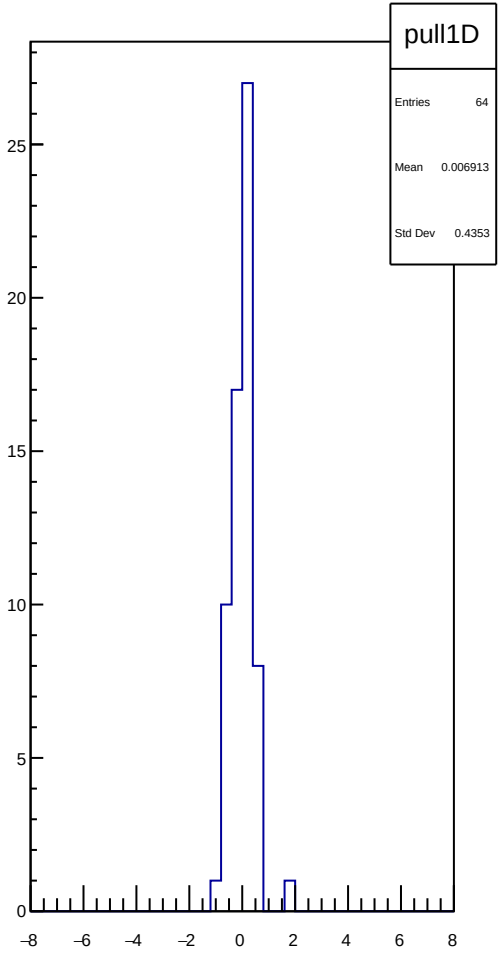

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 2417 / 63
p0 −3.454 ± 0.04346
pull
Entries 64
Mean 130.9
Std Dev 120.4

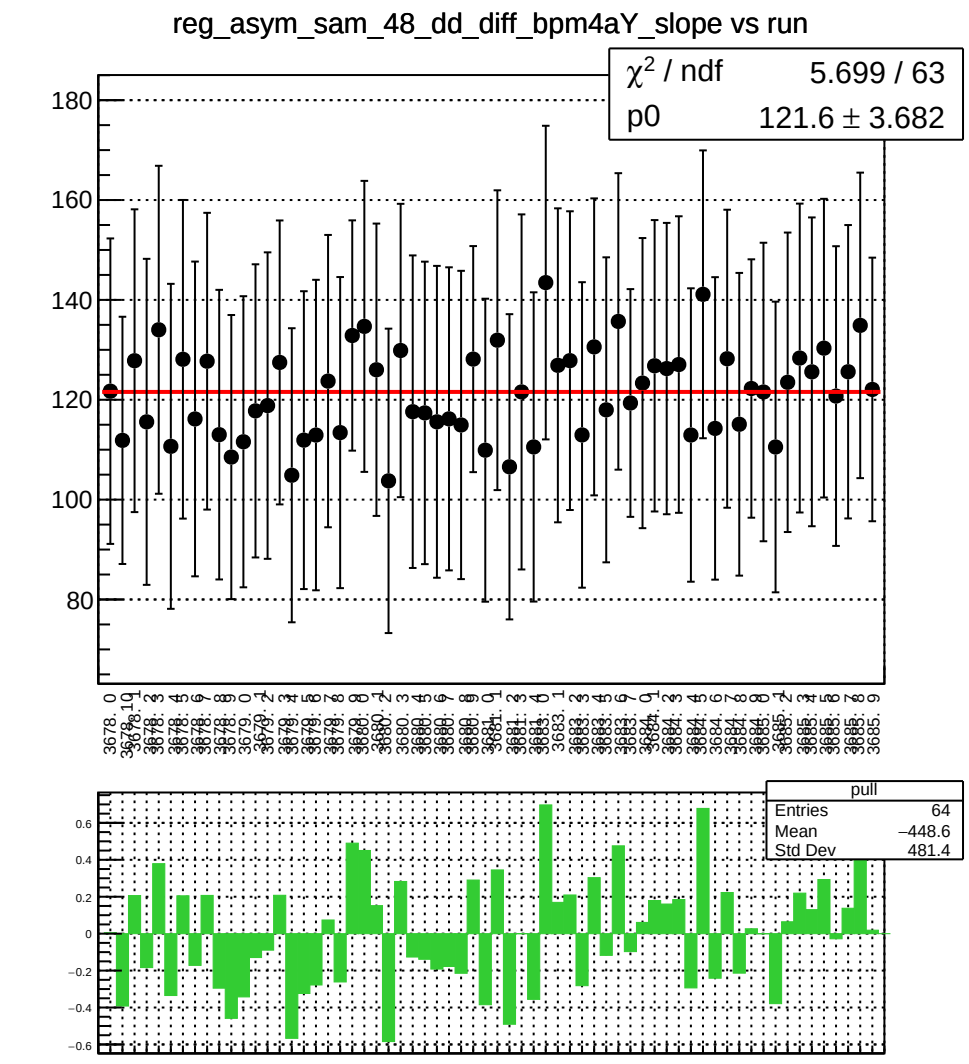

pull1D
Entries 64
Mean 0.09846
Std Dev 4.278

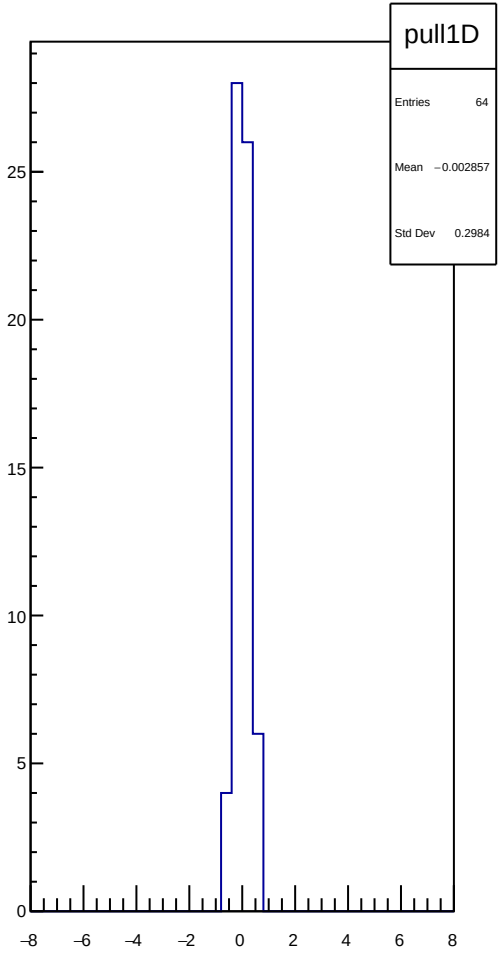

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 127 / 63
p0 19.67 ± 0.2621
pull
Entries 64
Mean 239.1
Std Dev 206.4
pull1D
Entries 64
Mean −0.02959
Std Dev 1.408

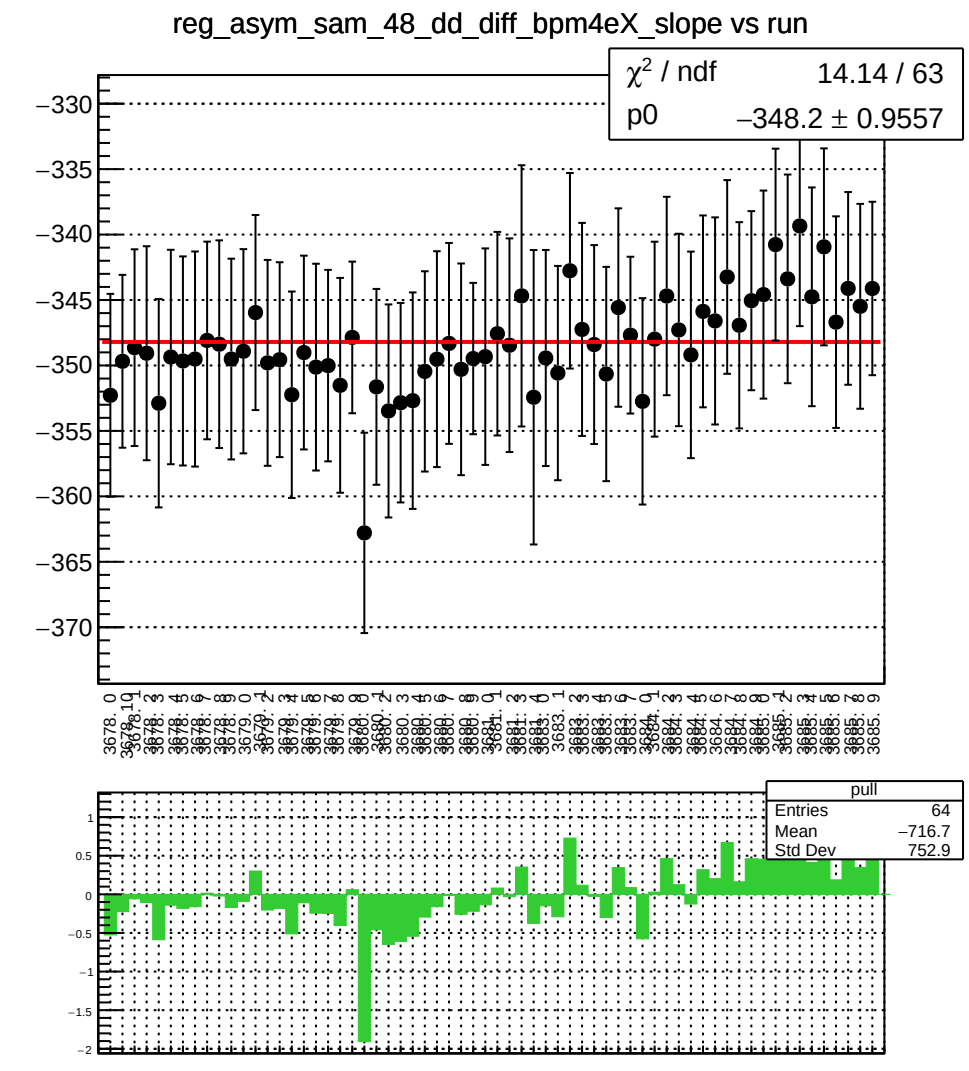

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 59.43 / 63
p0 0.08993 ± 0.04314
pull
Entries 64
Mean 86.85
Std Dev 54.66
pull1D
Entries 64
Mean −0.02817
Std Dev 0.9632

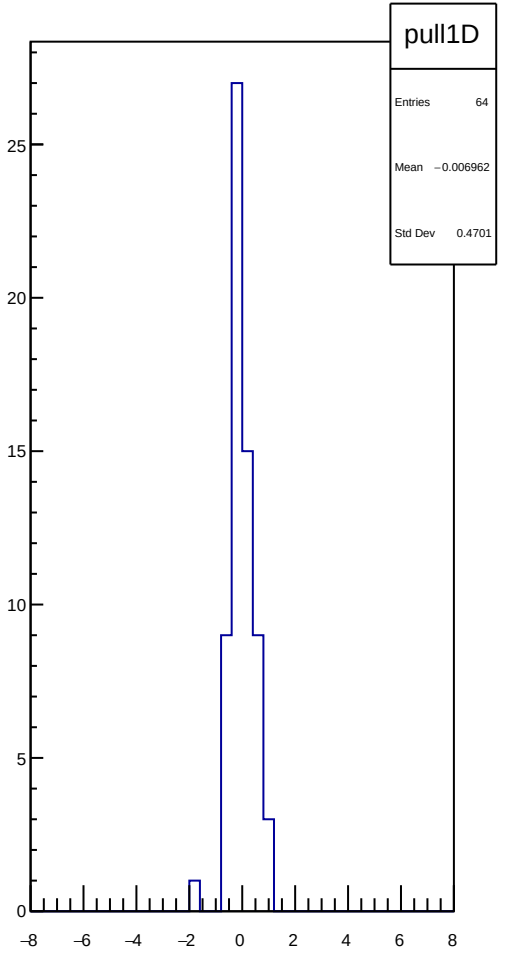

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 12.13 / 63
p0 66.51 ± 4.862
pull
Entries 64
Mean −603.6
Std Dev 637.7

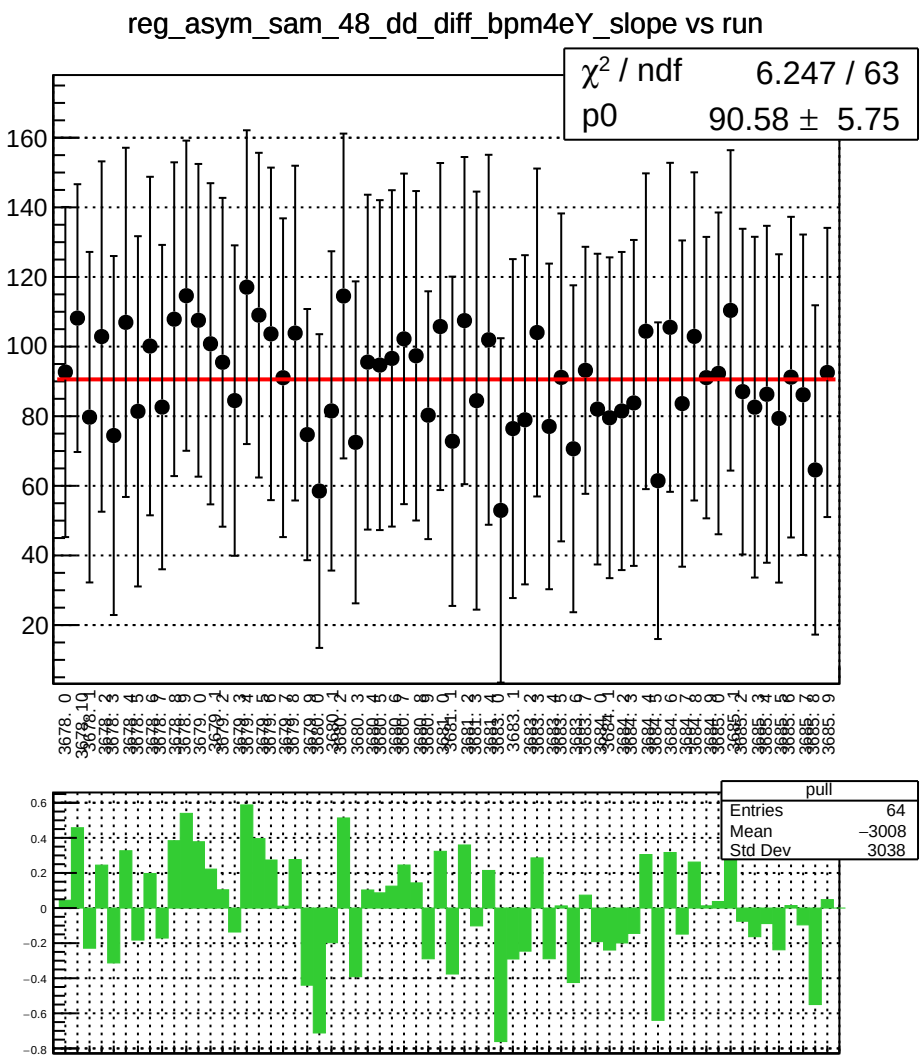

pull1D
Entries 64
Mean 0.006913
Std Dev 0.4353

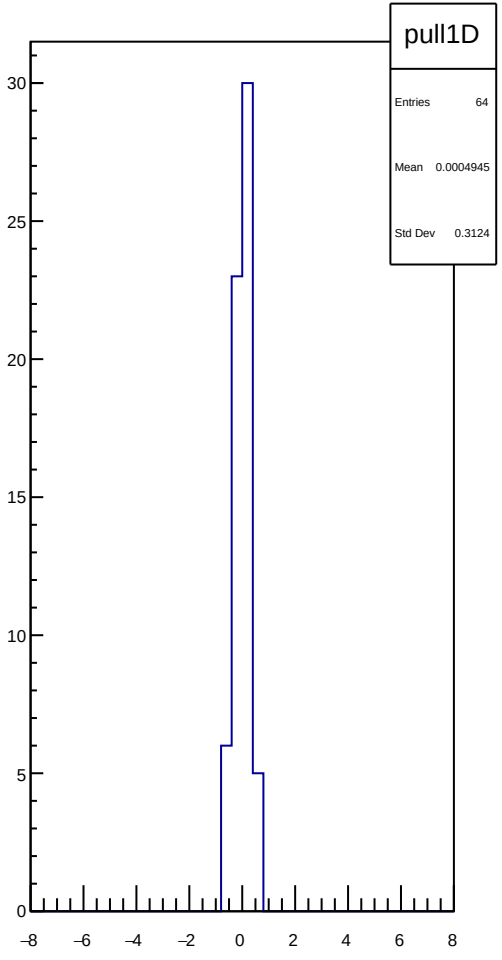

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.699 / 63
p0 121.6 ± 3.682
pull
Entries 64
Mean −448.6
Std Dev 481.4

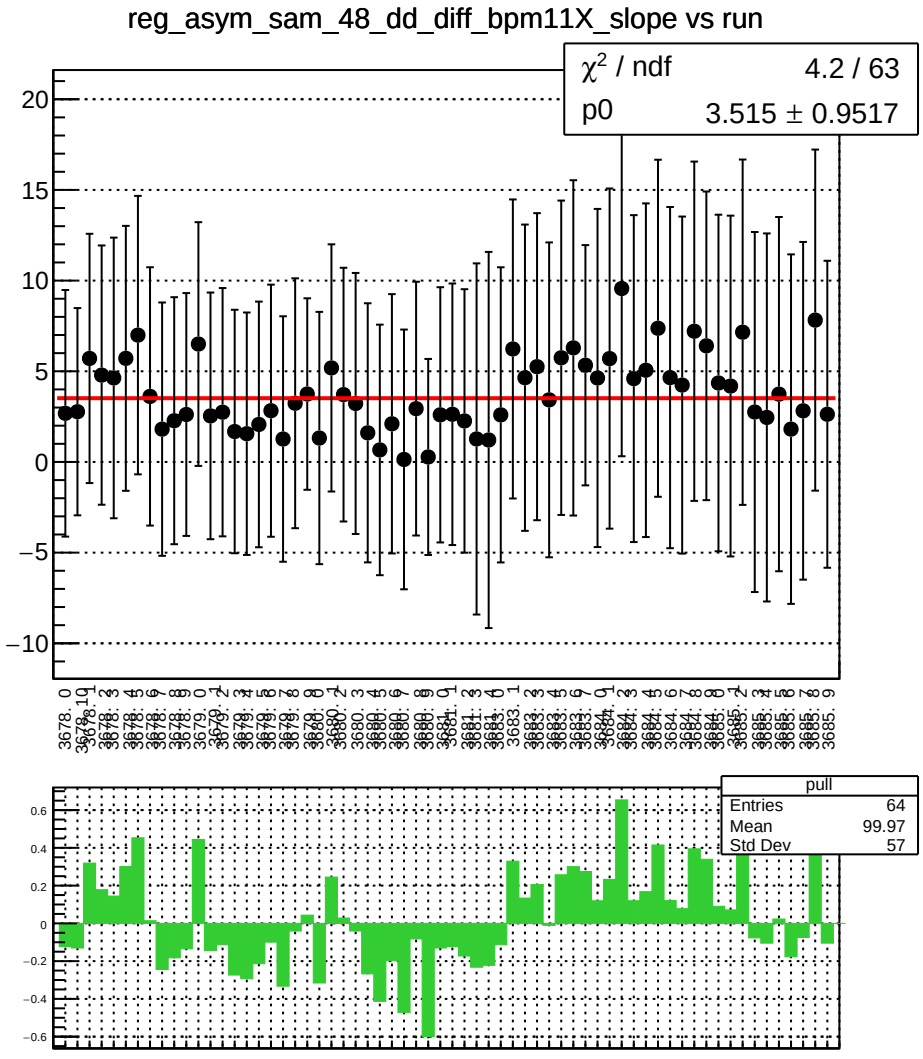

pull1D
Entries 64
Mean −0.002857
Std Dev 0.2984

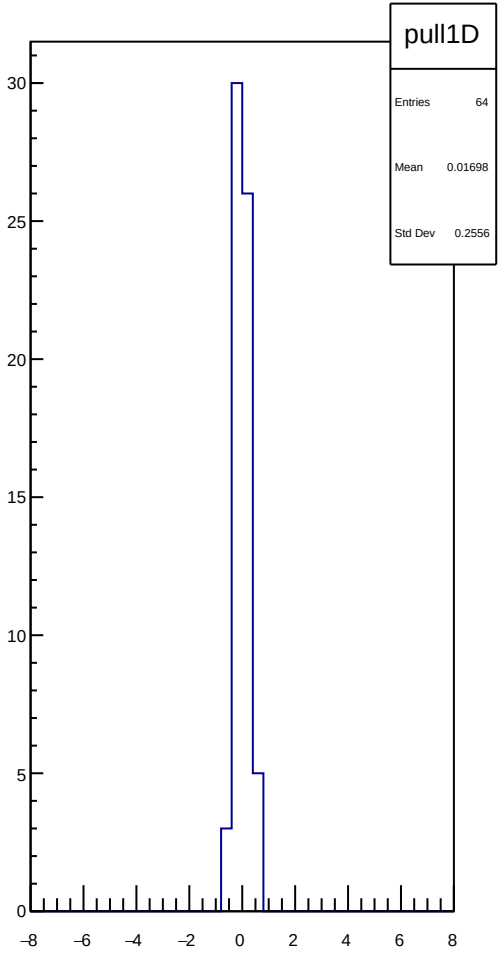

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.14 / 63
p0 −348.2 ± 0.9557
pull
Entries 64
Mean −716.7
Std Dev 752.9

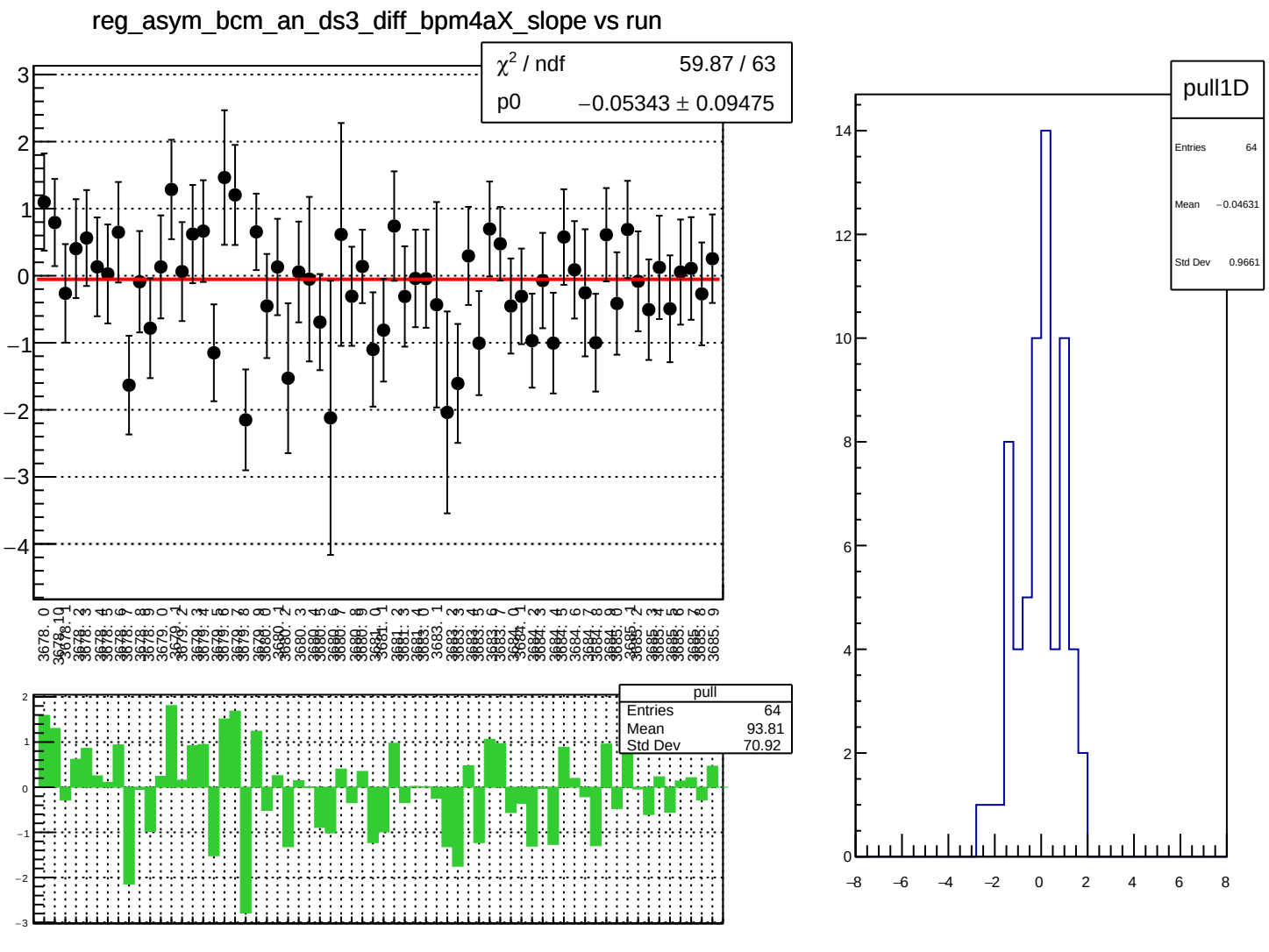

pull1D
Entries 64
Mean −0.006962
Std Dev 0.4701

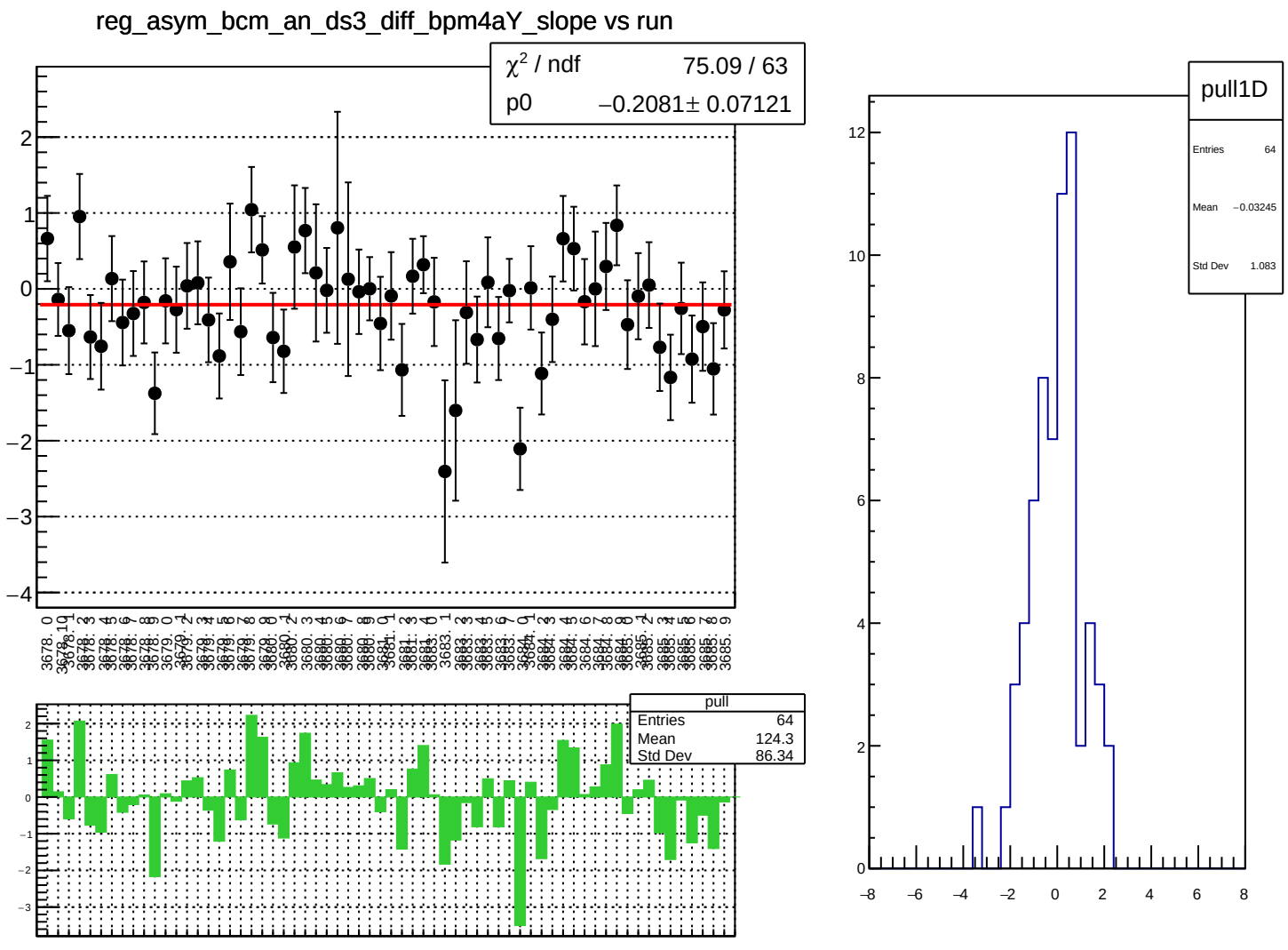

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.247 / 63
p0 90.58 ± 5.75
pull
Entries 64
Mean −3008
Std Dev 3038

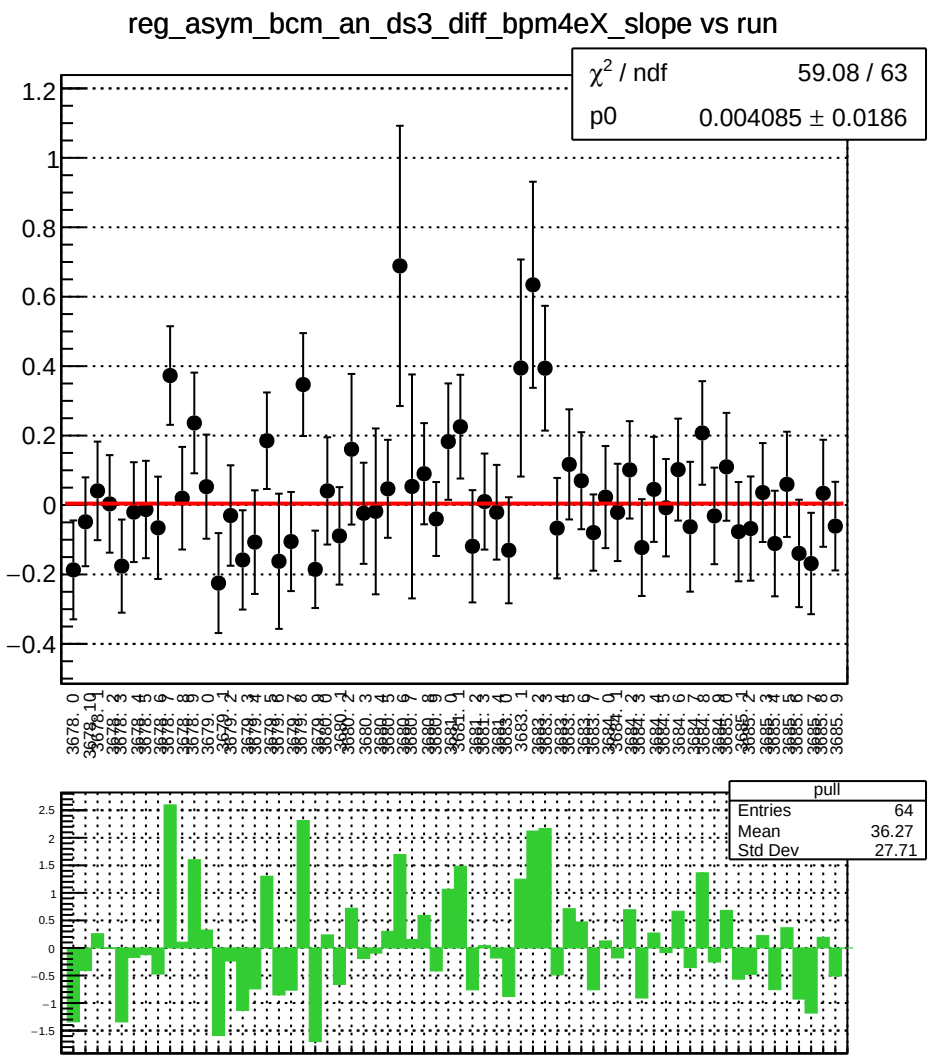

pull1D
Entries 64
Mean 0.0004945
Std Dev 0.3124

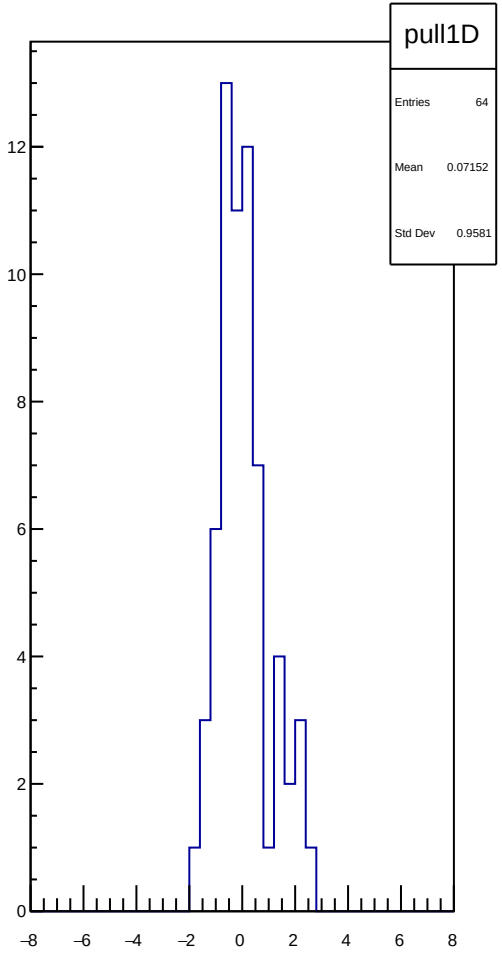

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 4.2 / 63
p0 3.515 ± 0.9517
pull
Entries 64
Mean 99.97
Std Dev 57

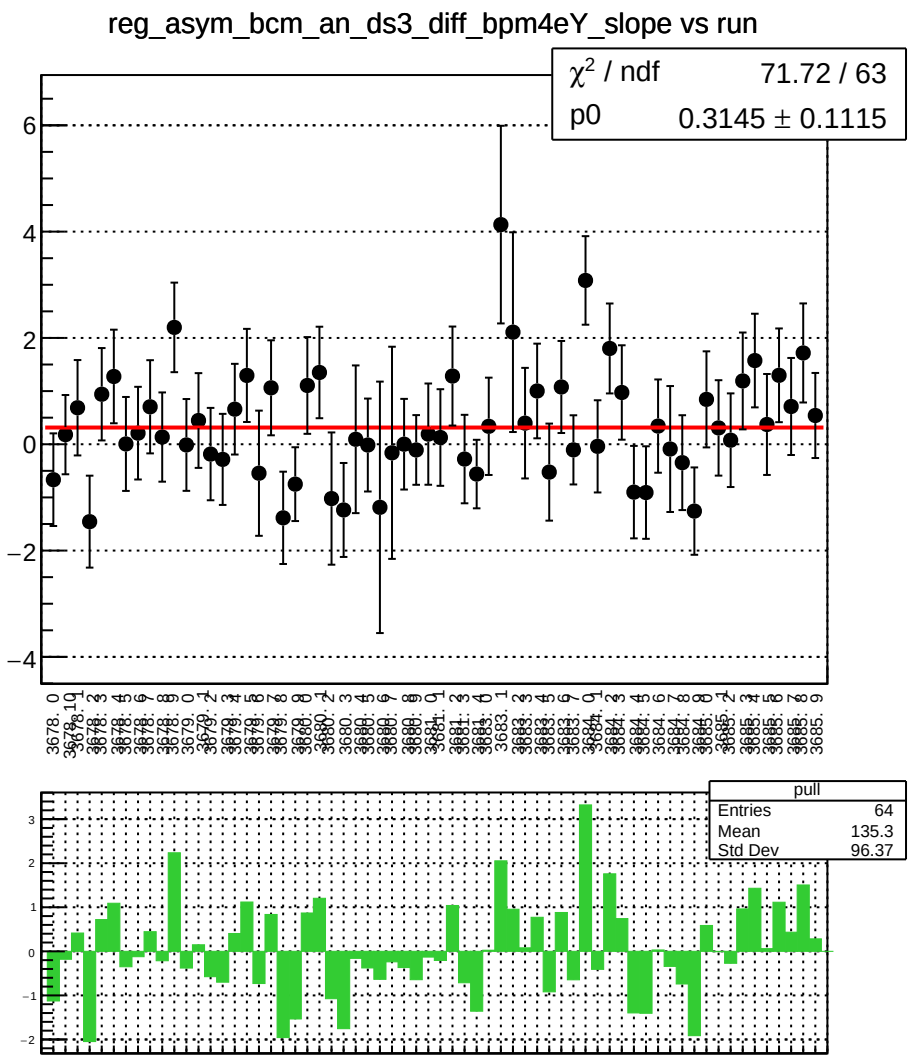

pull1D
Entries 64
Mean 0.01698
Std Dev 0.2556

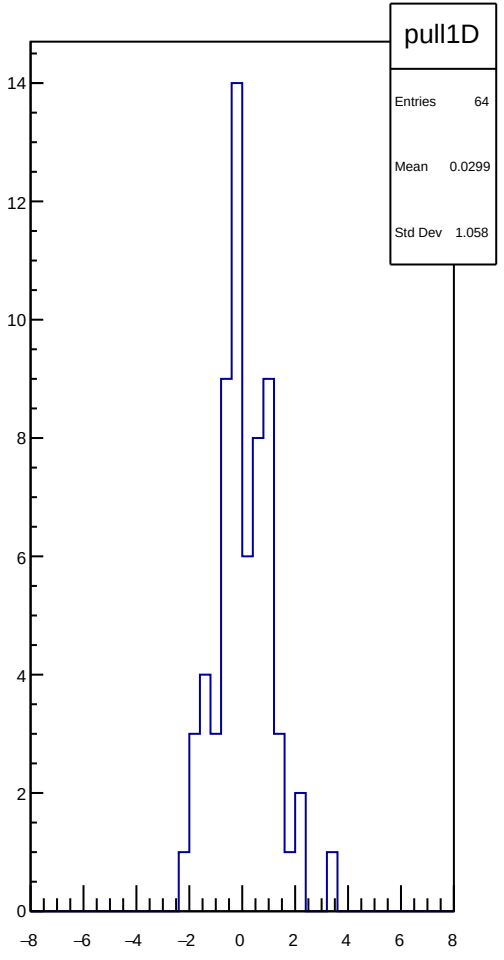

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 59.87 / 63
p0 −0.05343 ± 0.09475
pull
Entries 64
Mean 93.81
Std Dev 70.92
pull1D
Entries 64
Mean −0.04631
Std Dev 0.9661

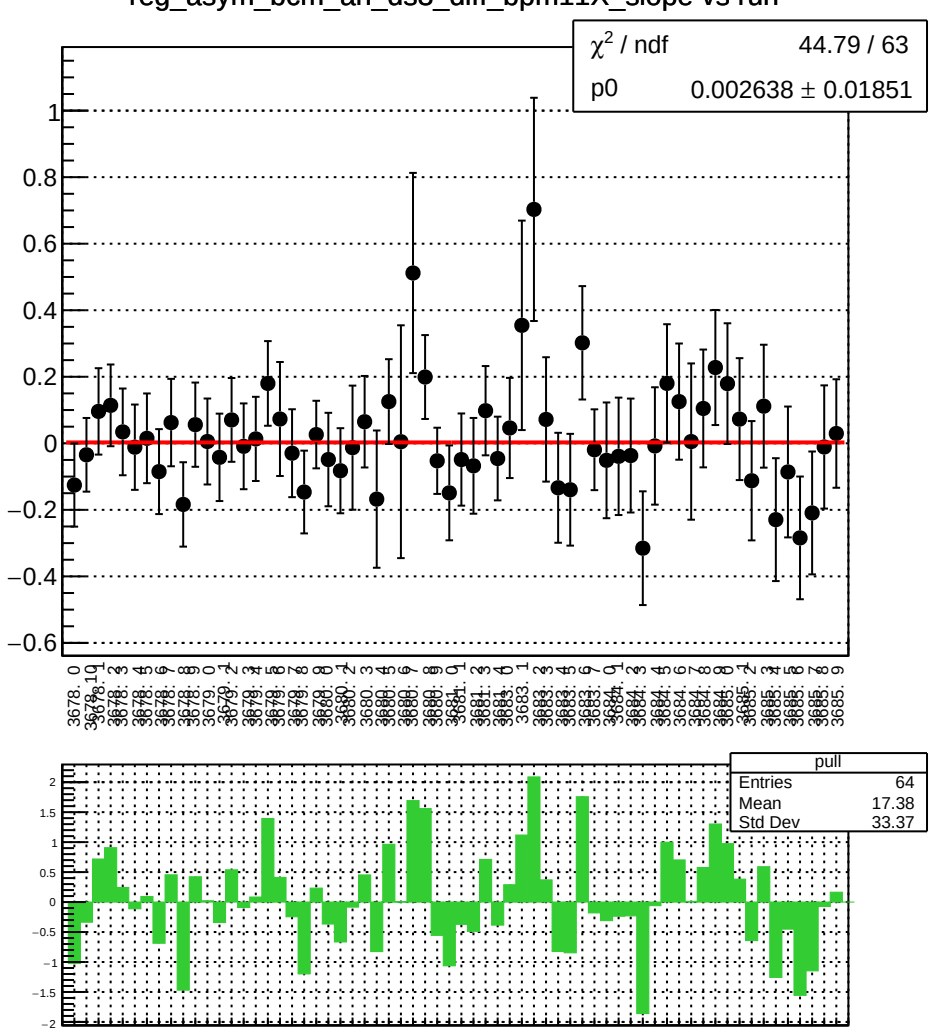

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 75.09 / 63
p0 −0.2081± 0.07121
pull
Entries 64
Mean 124.3
Std Dev 86.34
pull1D
Entries 64
Mean −0.03245
Std Dev 1.083

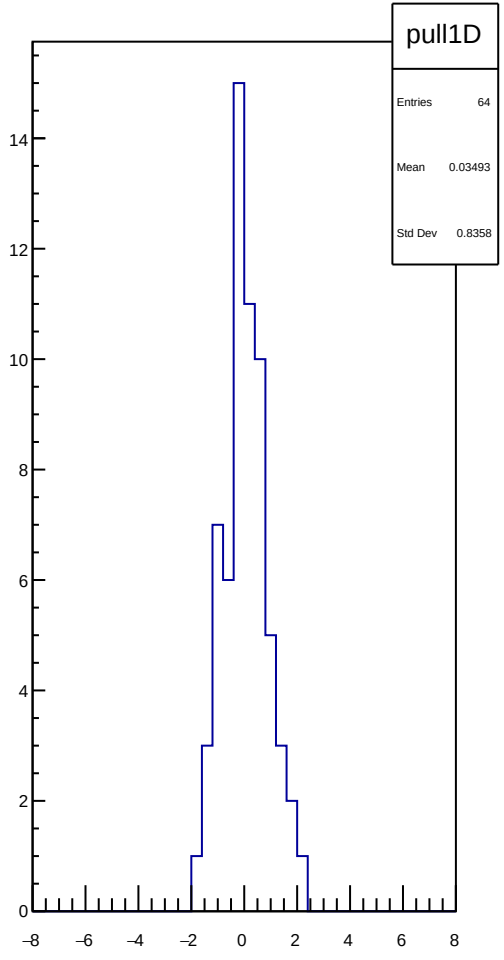

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 59.08 / 63
p0 0.004085 ± 0.0186
pull
Entries 64
Mean 36.27
Std Dev 27.71

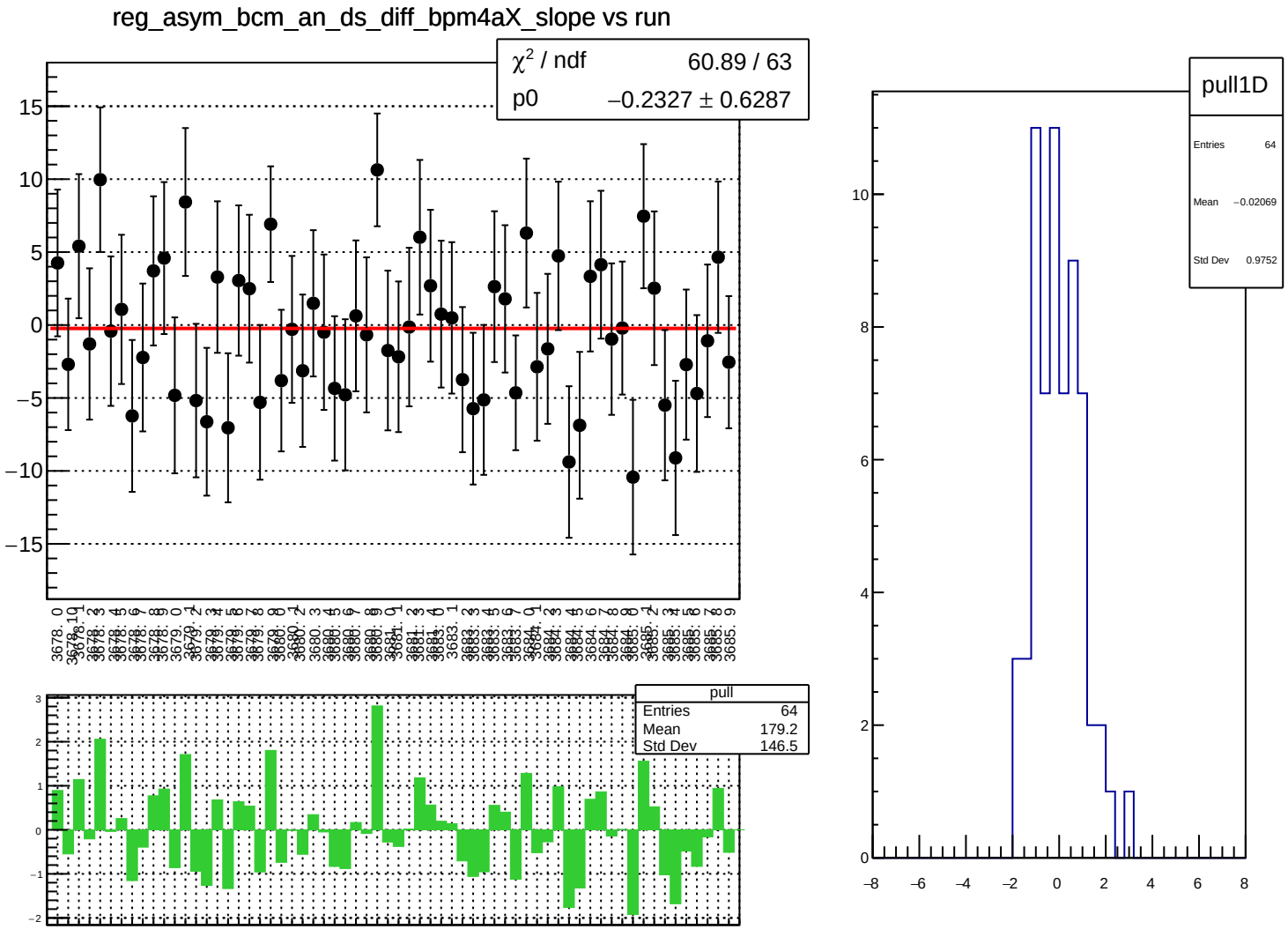

pull1D
Entries 64
Mean 0.07152
Std Dev 0.9581

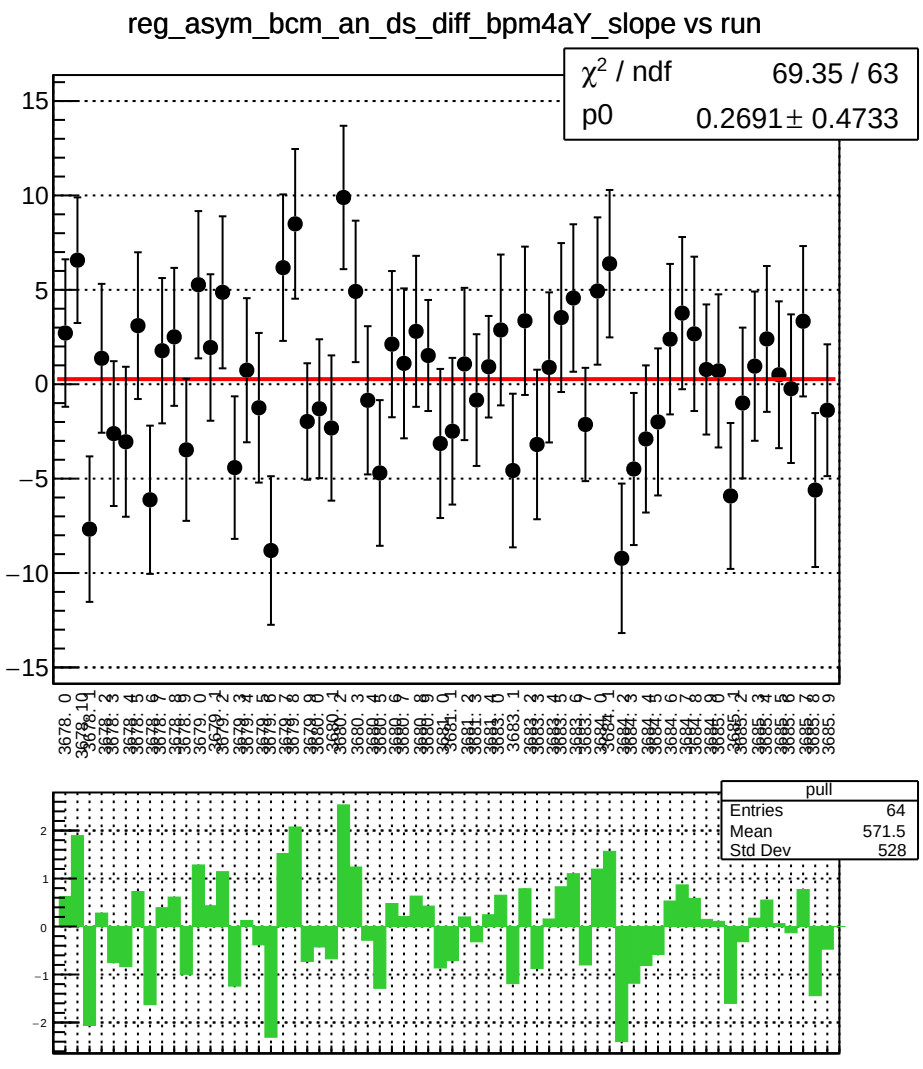

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 71.72 / 63
p0 0.3145 ± 0.1115
pull
Entries 64
Mean 135.3
Std Dev 96.37

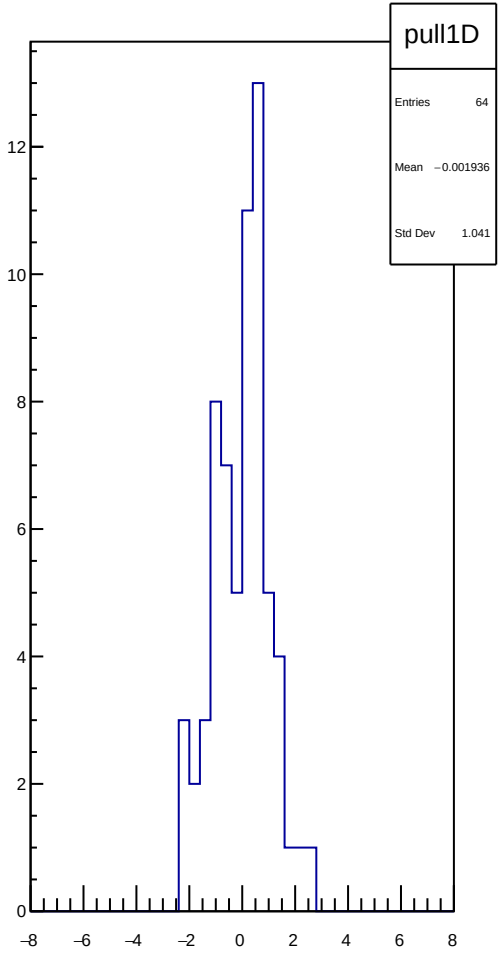

pull1D
Entries 64
Mean 0.0299
Std Dev 1.058

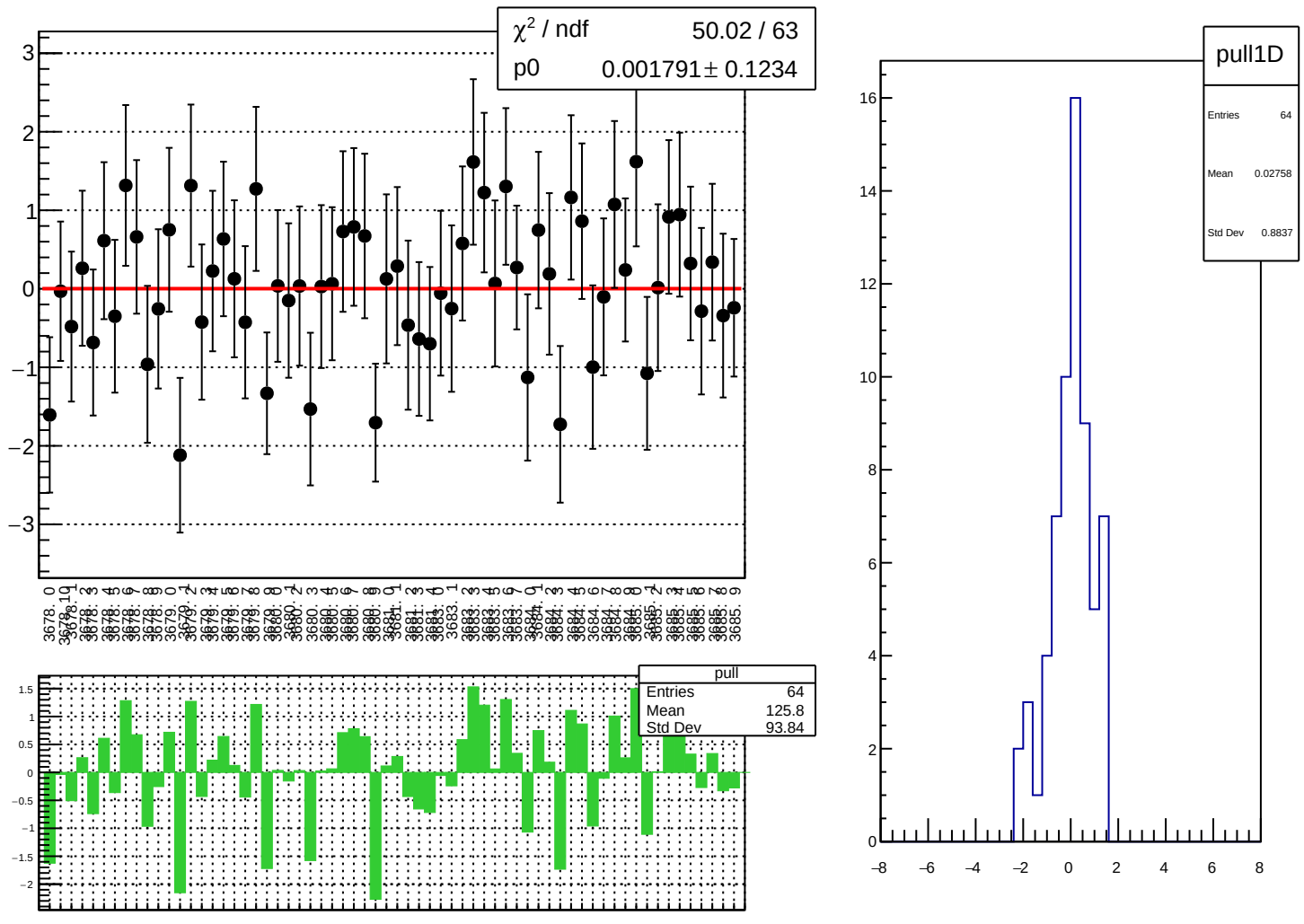

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 44.79 / 63
p0 0.002638 ± 0.01851
pull
Entries 64
Mean 17.38
Std Dev 33.37

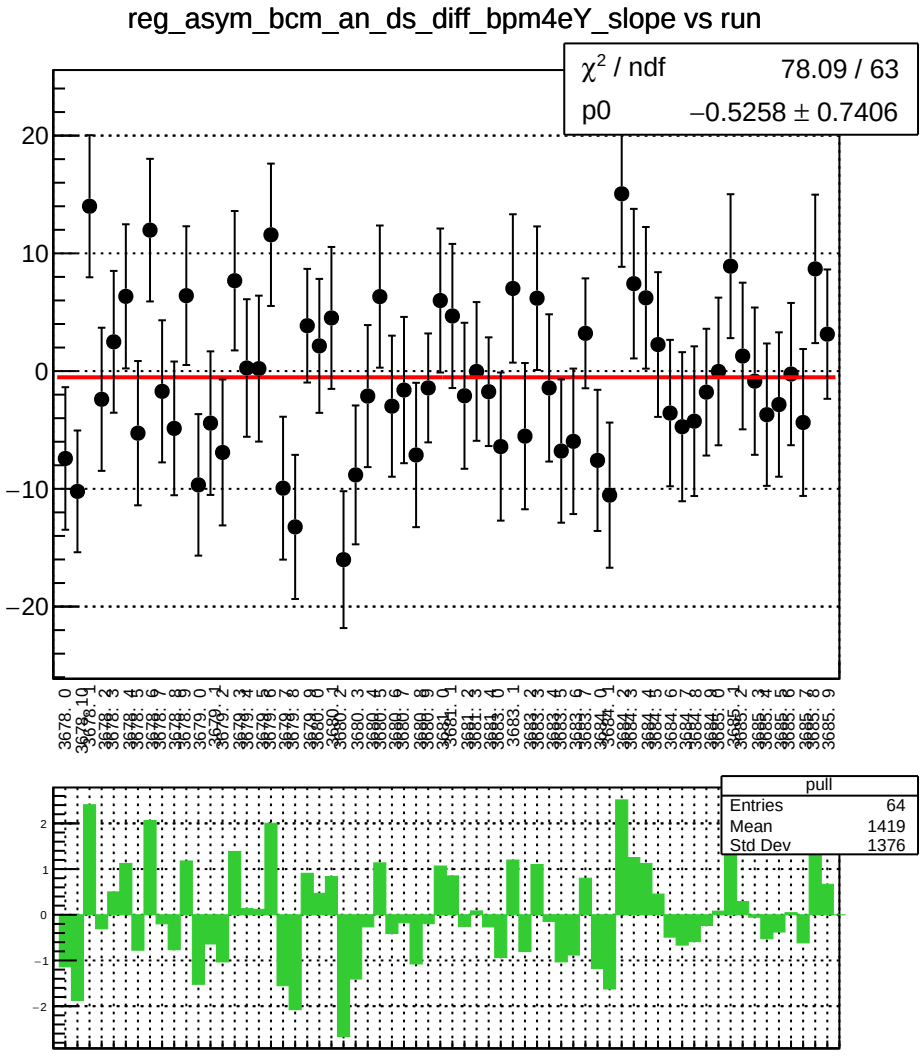

pull1D
Entries 64
Mean 0.03493
Std Dev 0.8358

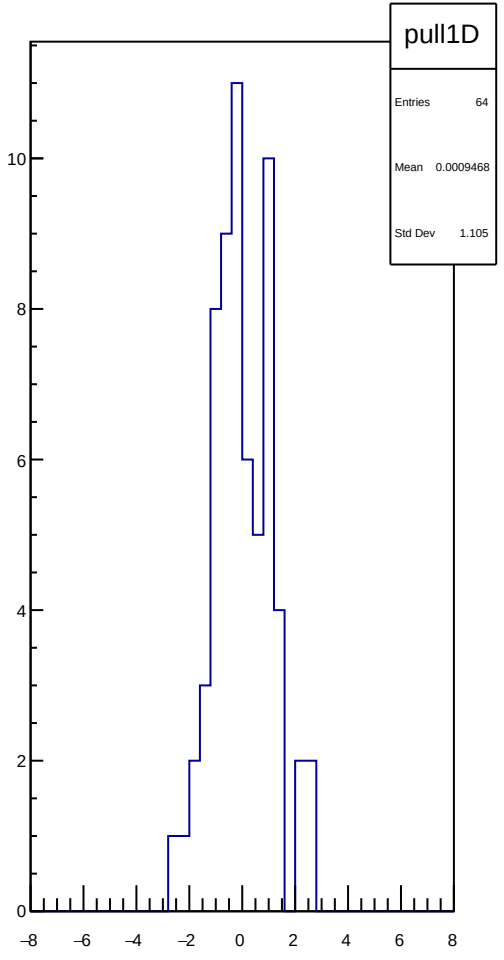

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 60.89 / 63
p0 −0.2327 ± 0.6287
pull
Entries 64
Mean 179.2
Std Dev 146.5
pull1D
Entries 64
Mean −0.02069
Std Dev 0.9752

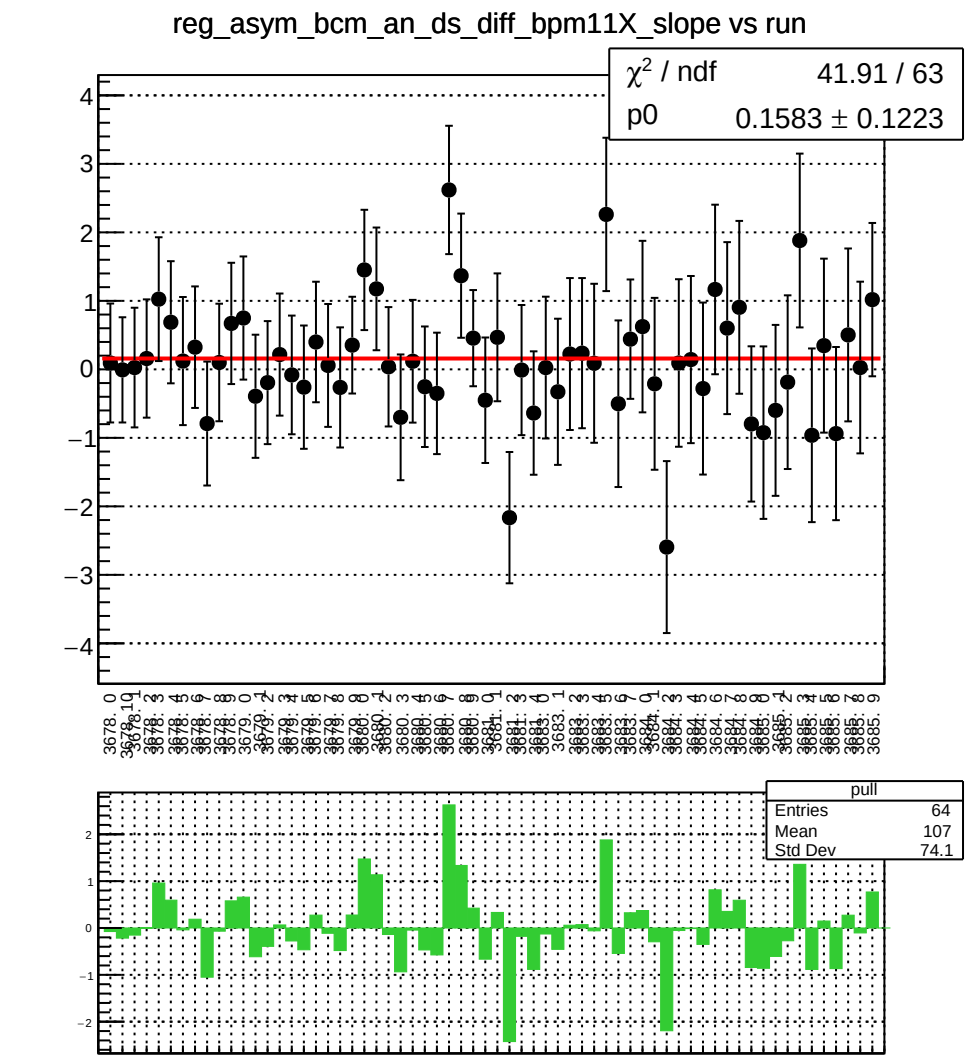

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 69.35 / 63
p0 0.2691 ± 0.4733
pull
Entries 64
Mean 571.5
Std Dev 528

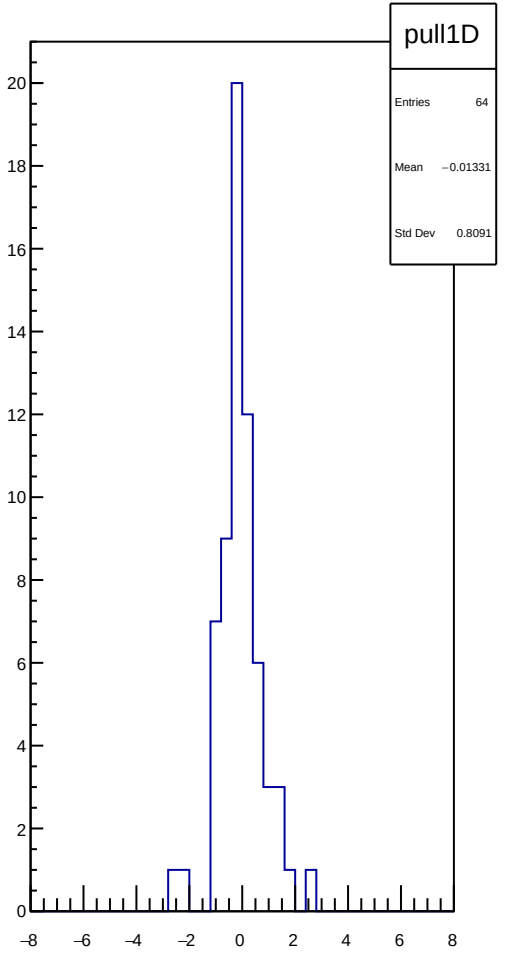

pull1D
Entries 64
Mean −0.001936
Std Dev 1.041

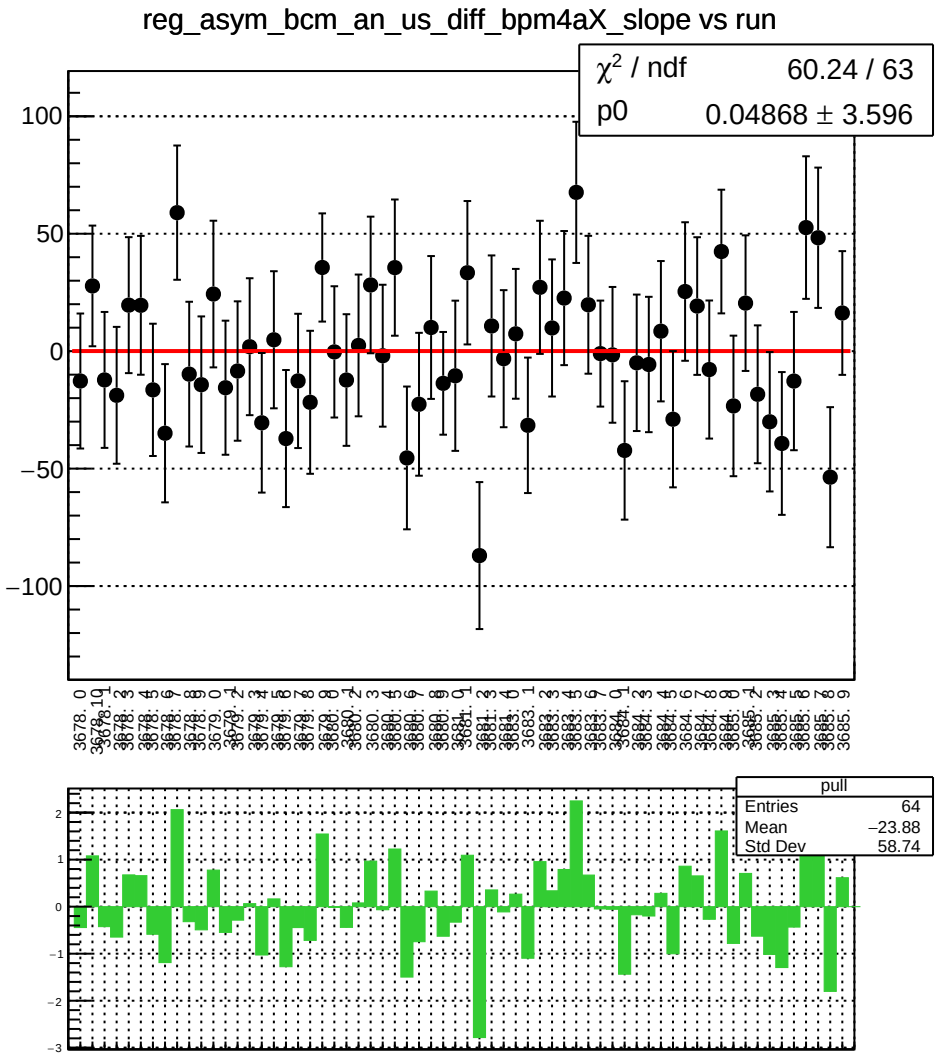

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 50.02 / 63
p0 0.001791 ± 0.1234
pull
Entries 64
Mean 125.8
Std Dev 93.84
pull1D
Entries 64
Mean 0.02758
Std Dev 0.8837

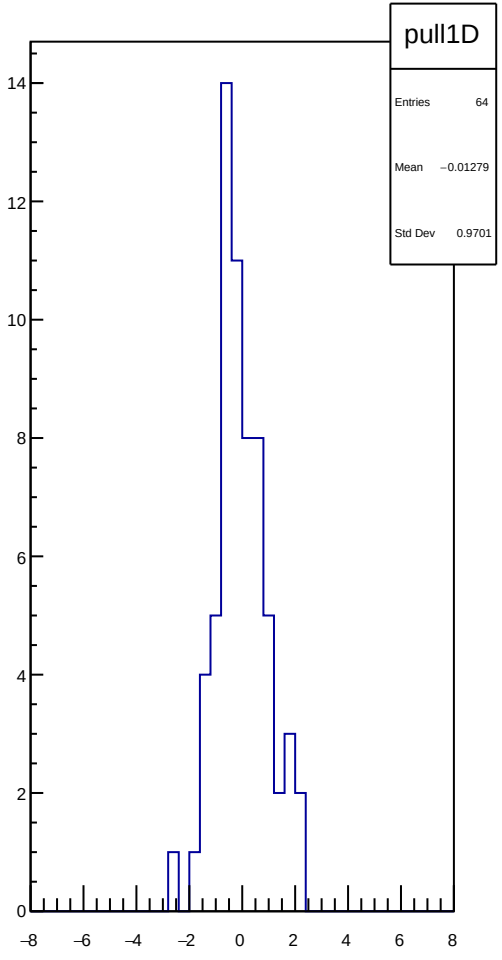

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 78.09 / 63
p0 −0.5258 ± 0.7406
pull
Entries 64
Mean 1419
Std Dev 1376

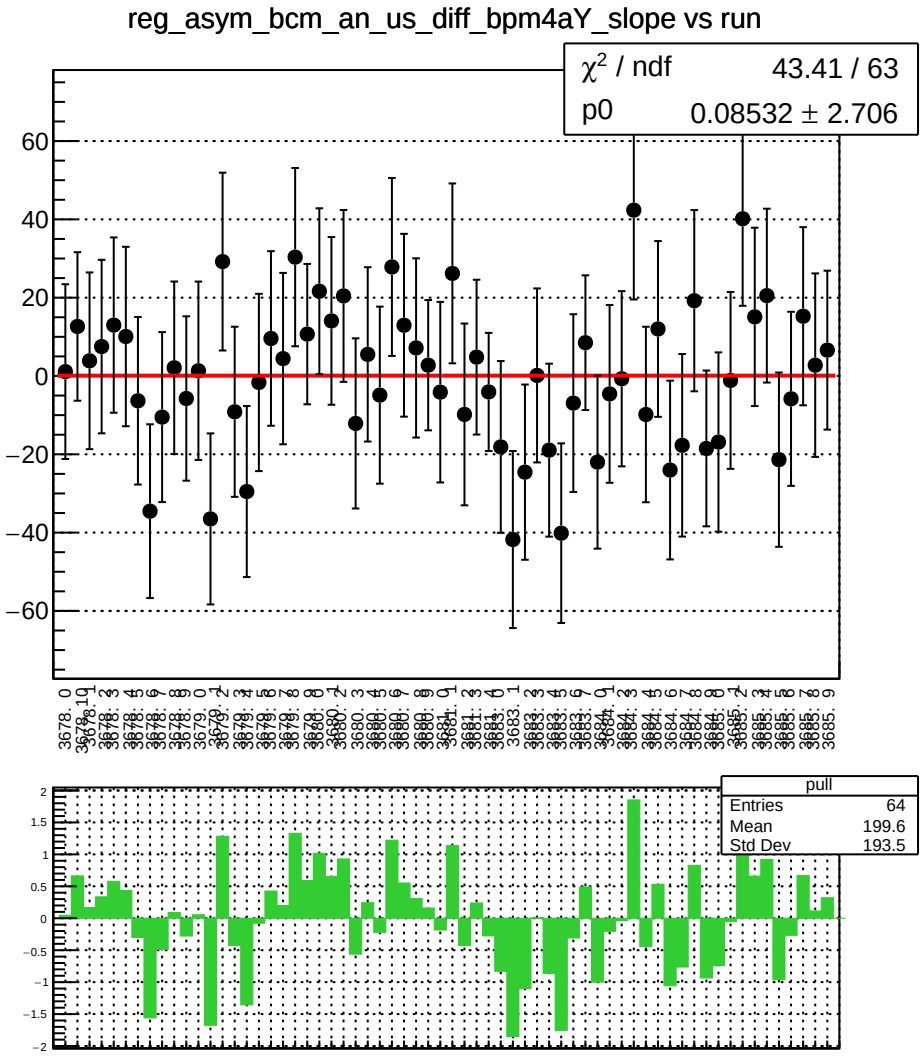

pull1D
Entries 64
Mean 0.0009468
Std Dev 1.105

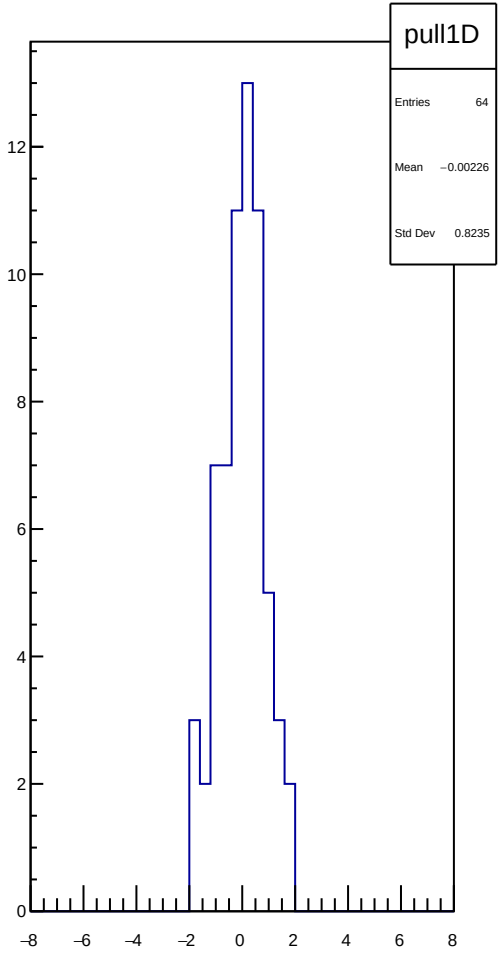

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 41.91 / 63
p0 0.1583 ± 0.1223
pull
Entries 64
Mean 107
Std Dev 74.1

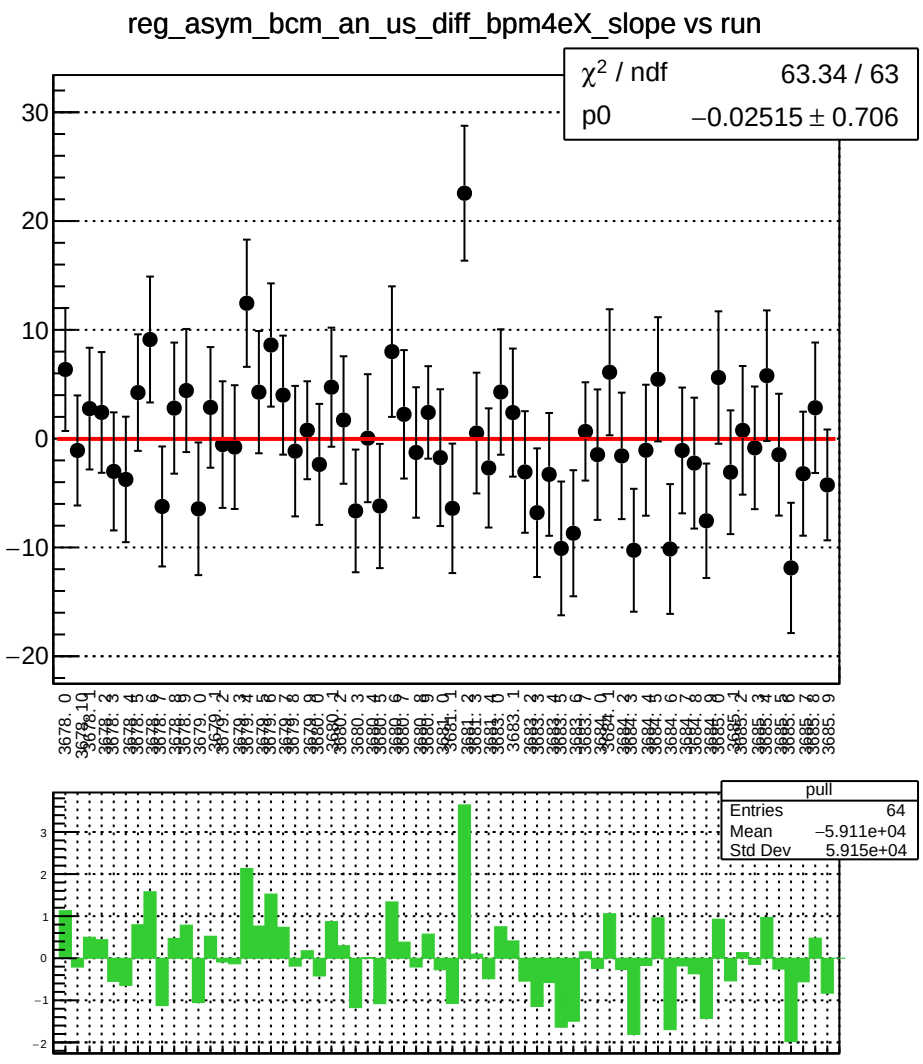

pull1D
Entries 64
Mean −0.01331
Std Dev 0.8091

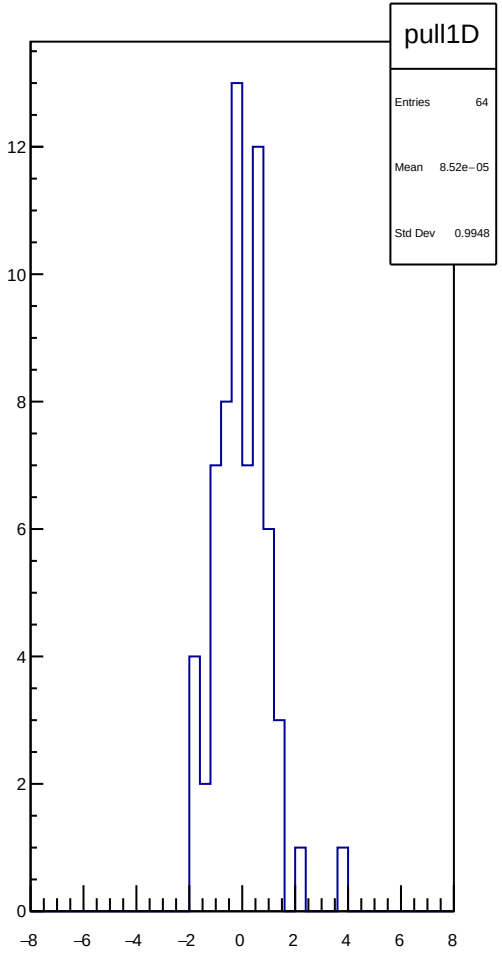

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 60.24 / 63
p0 0.04868 ± 3.596
pull
Entries 64
Mean −23.88
Std Dev 58.74

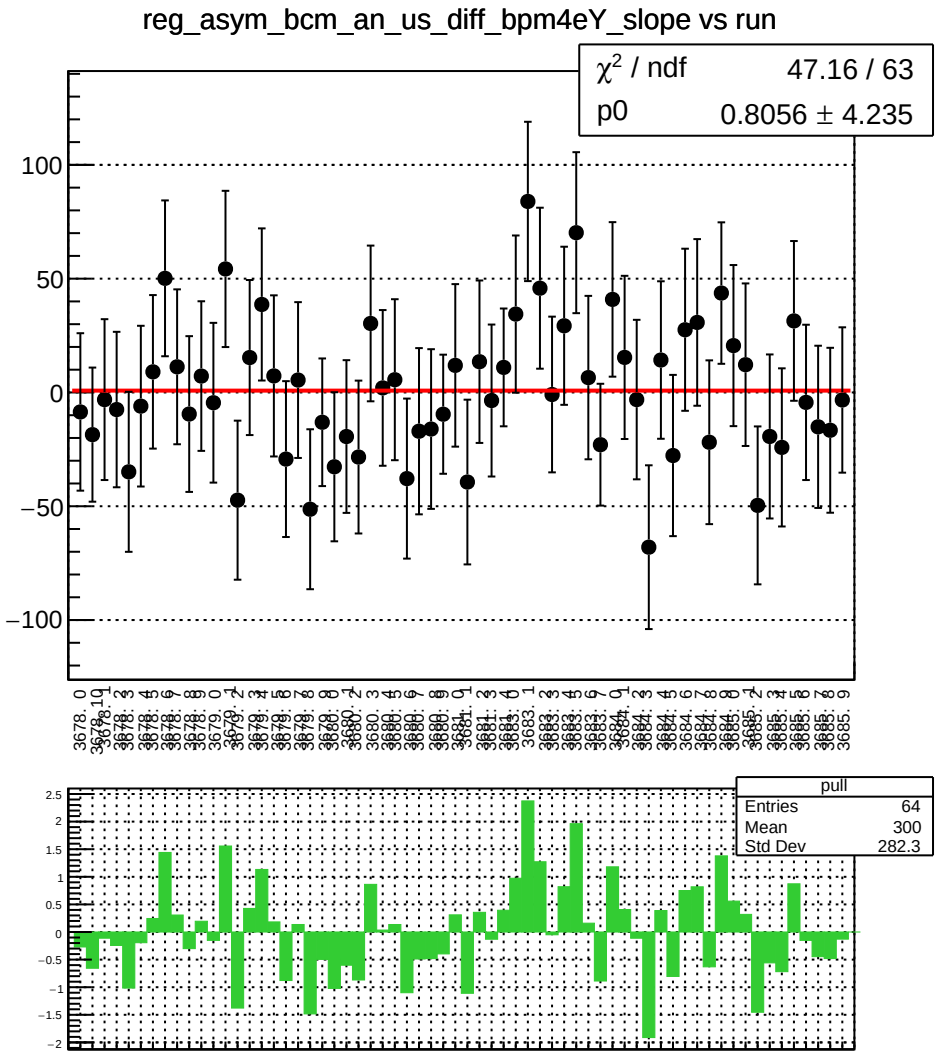

pull1D
Entries 64
Mean −0.01279
Std Dev 0.9701

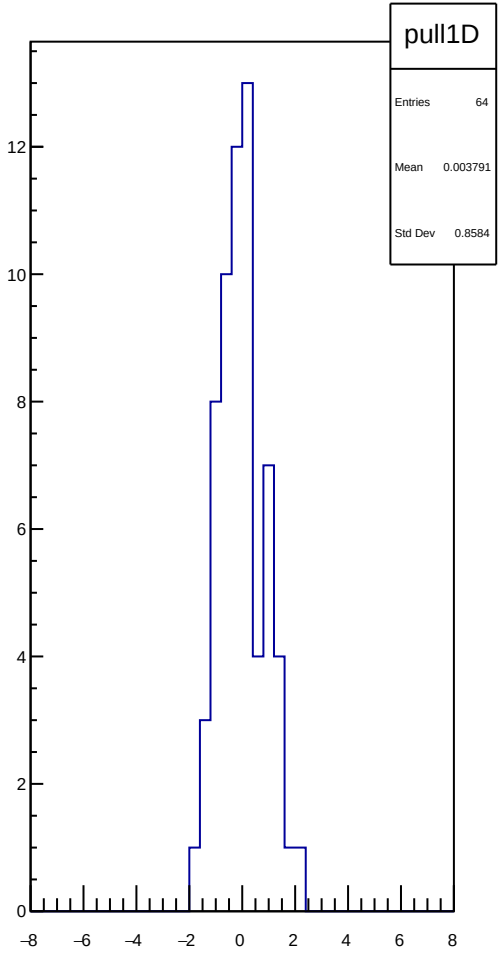

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 43.41 / 63
p0 0.08532 ± 2.706
pull
Entries 64
Mean 199.6
Std Dev 193.5

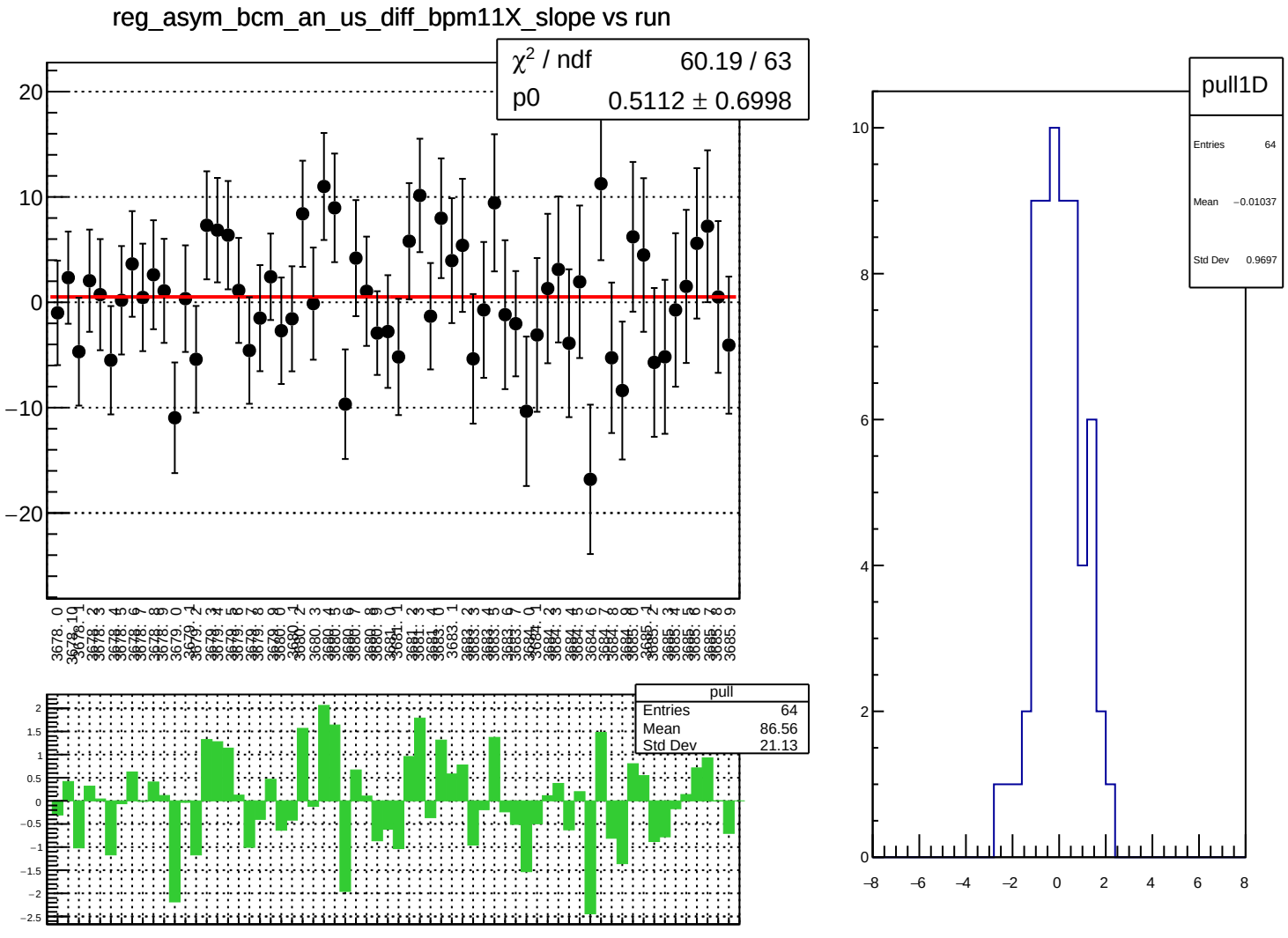

pull1D
Entries 64
Mean −0.00226
Std Dev 0.8235

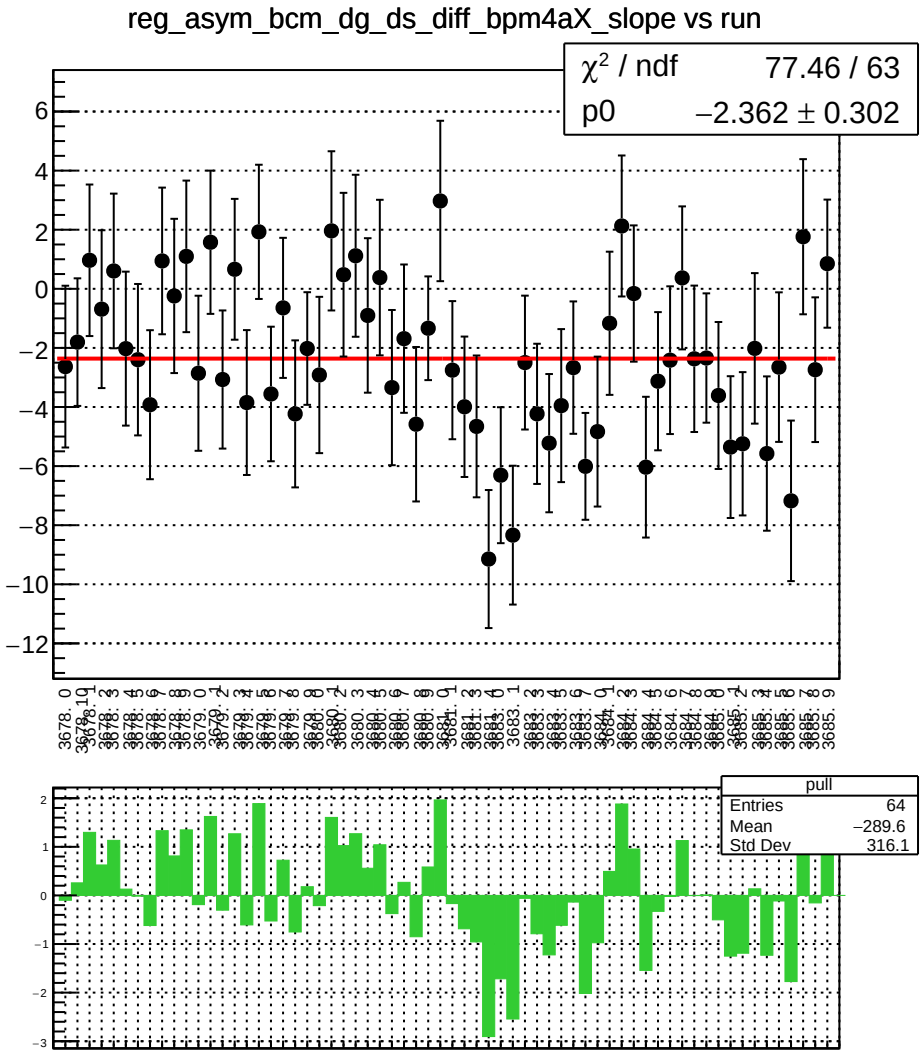

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 63.34 / 63
p0 −0.02515 ± 0.706
pull
Entries 64
Mean −5.911e+04
Std Dev 5.915e+04

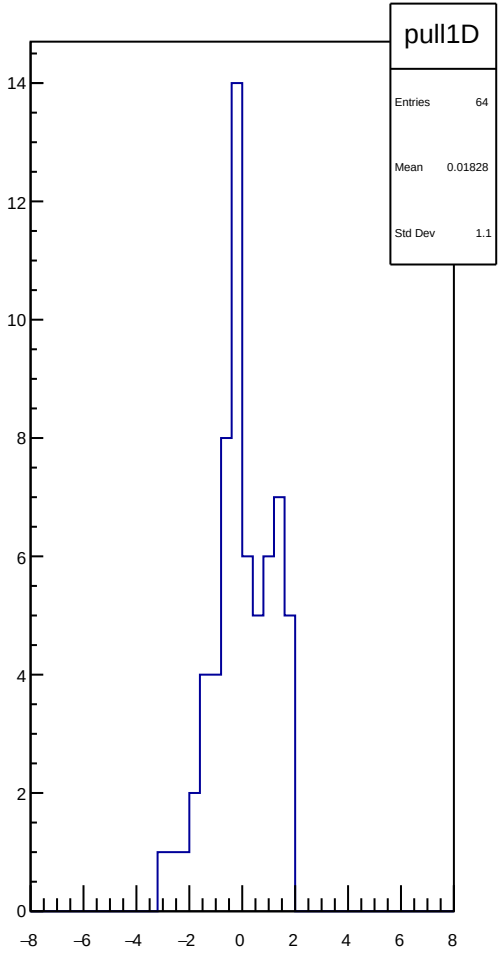

pull1D
Entries 64
Mean 8.52e−05
Std Dev 0.9948

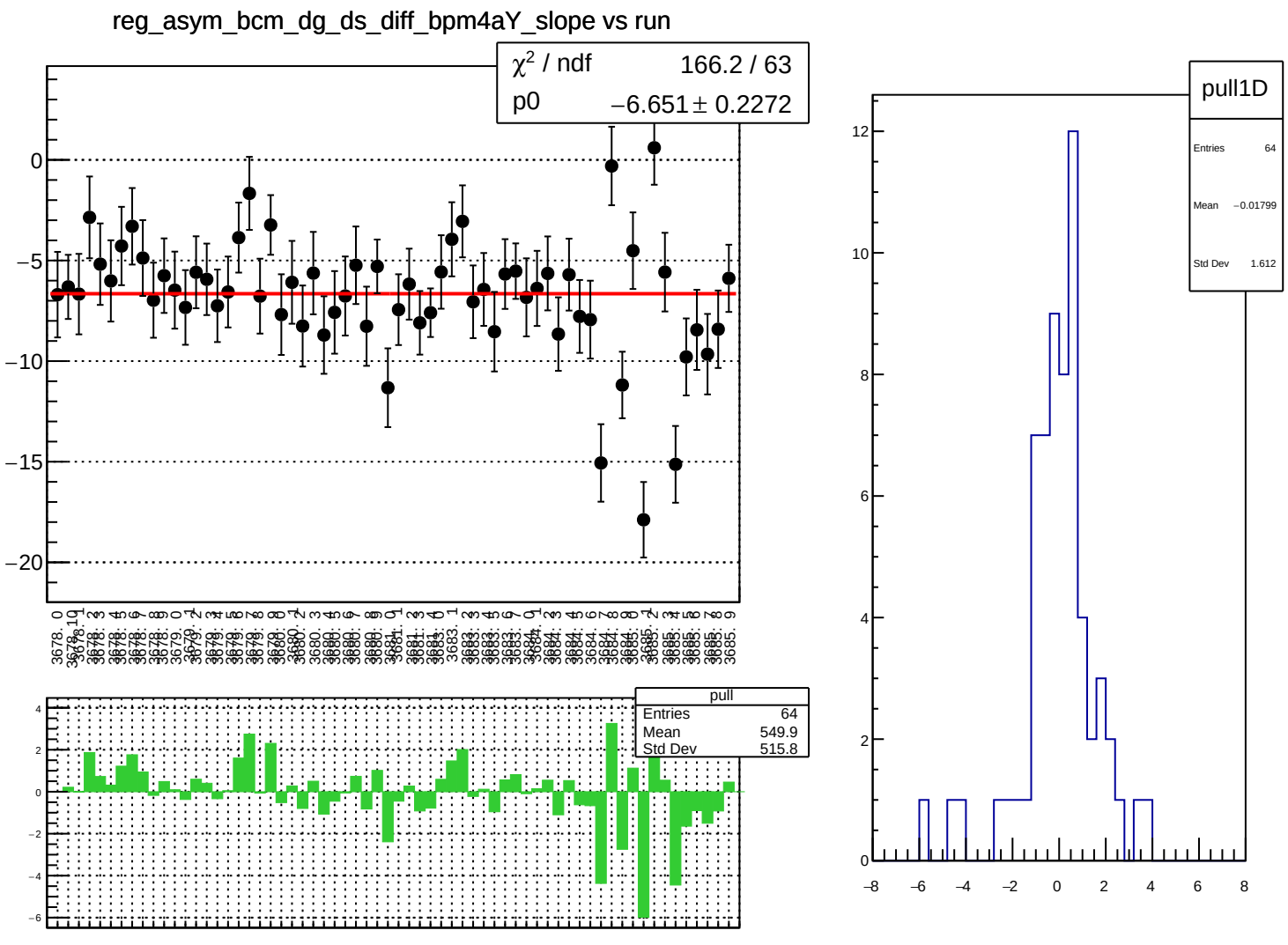

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 47.16 / 63
p0 0.8056 ± 4.235
pull
Entries 64
Mean 300
Std Dev 282.3

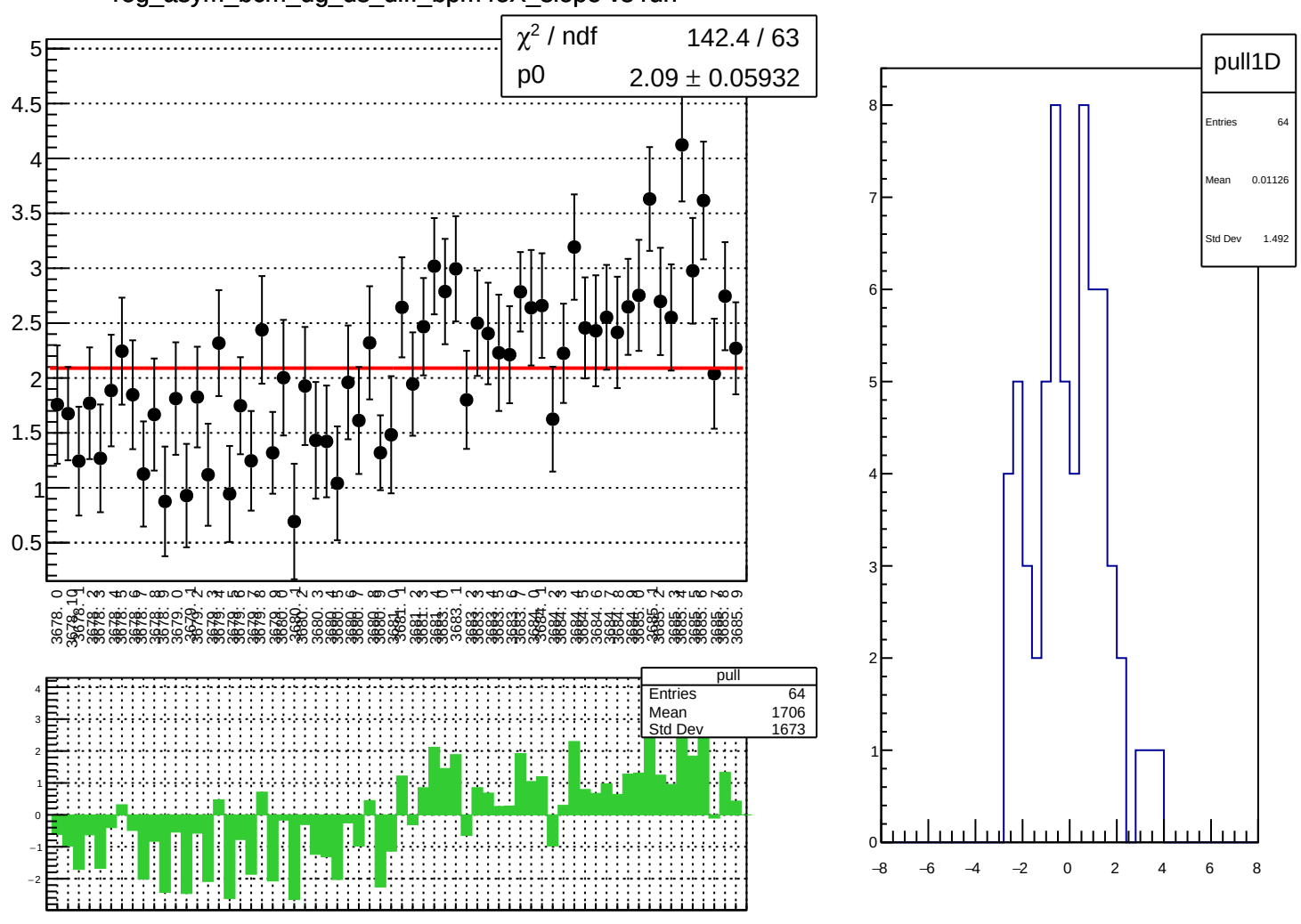

pull1D
Entries 64
Mean 0.003791
Std Dev 0.8584

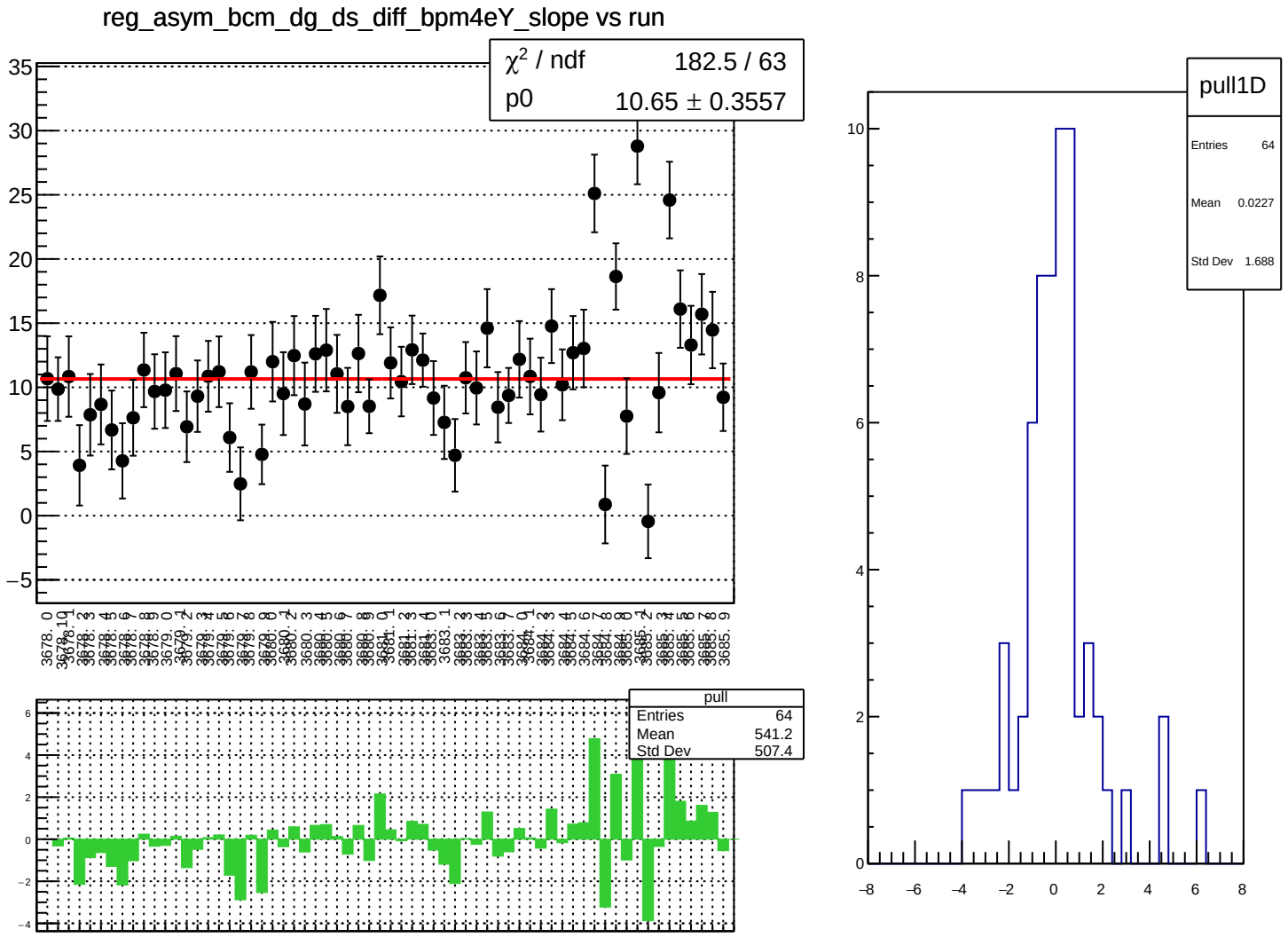

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 60.19 / 63
p0 0.5112 ± 0.6998
pull
Entries 64
Mean 86.56
Std Dev 21.13
pull1D
Entries 64
Mean −0.01037
Std Dev 0.9697

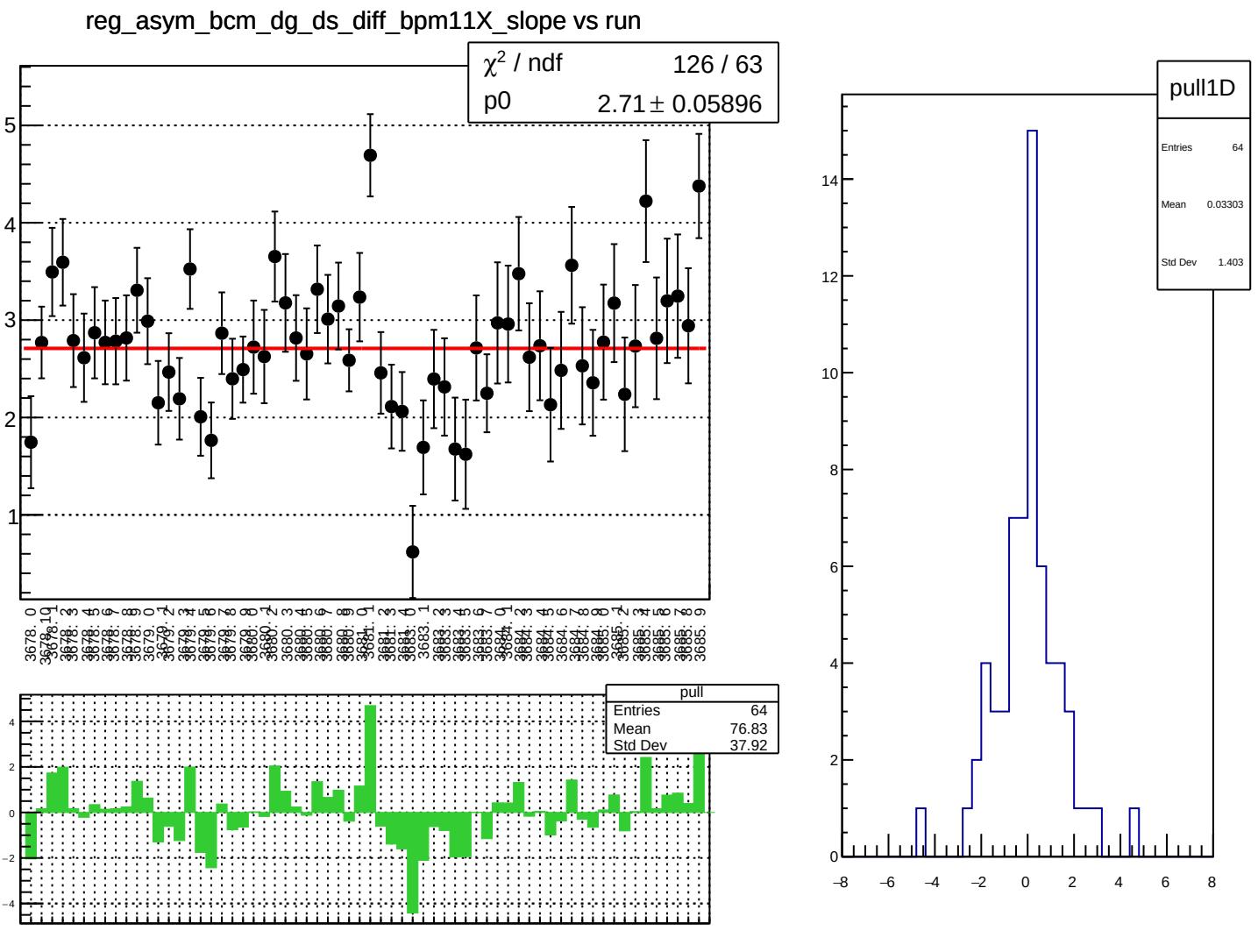

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 77.46 / 63
p0 −2.362 ± 0.302
pull
Entries 64
Mean −289.6
Std Dev 316.1

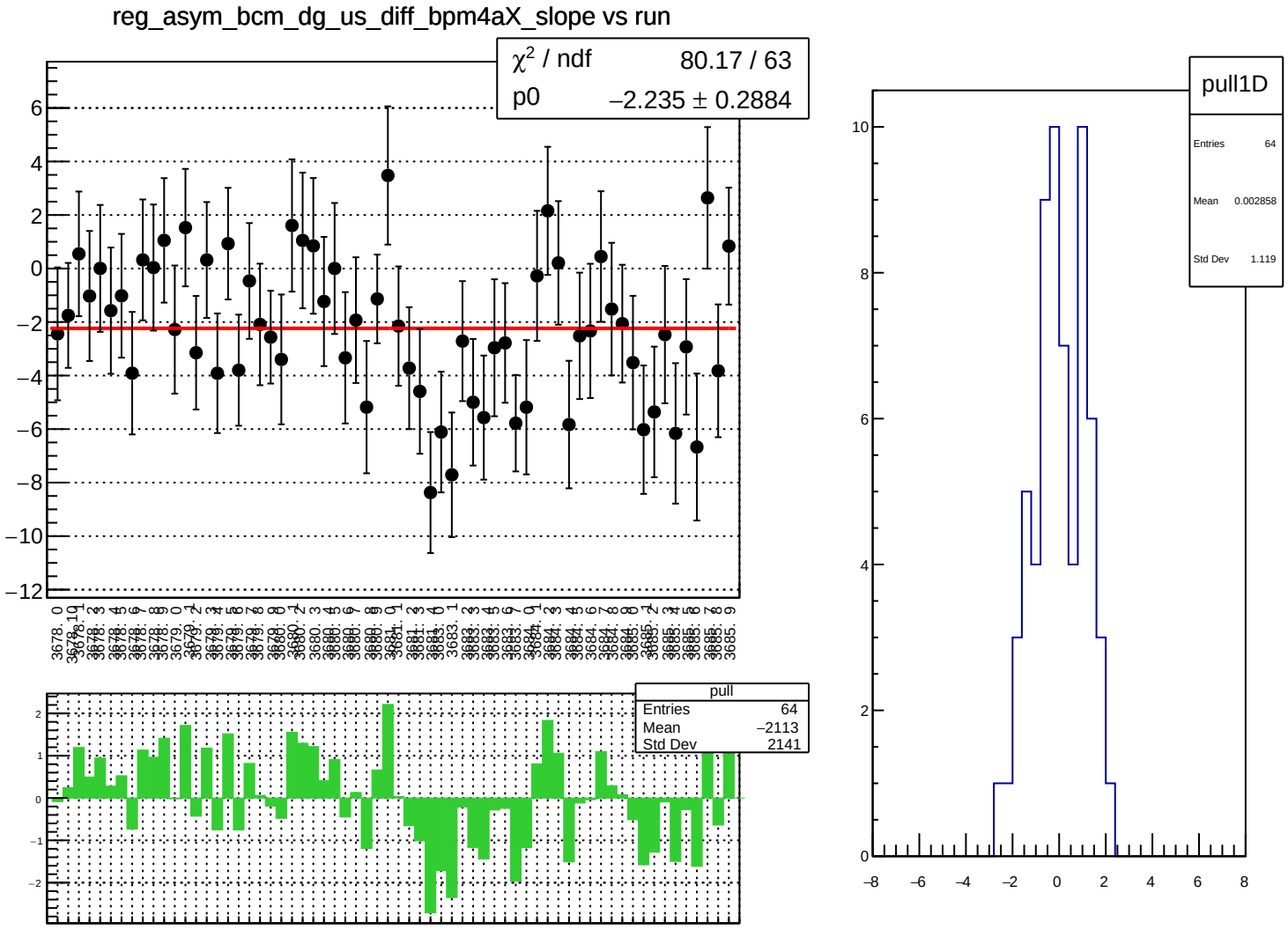

pull1D
Entries 64
Mean 0.01828
Std Dev 1.1

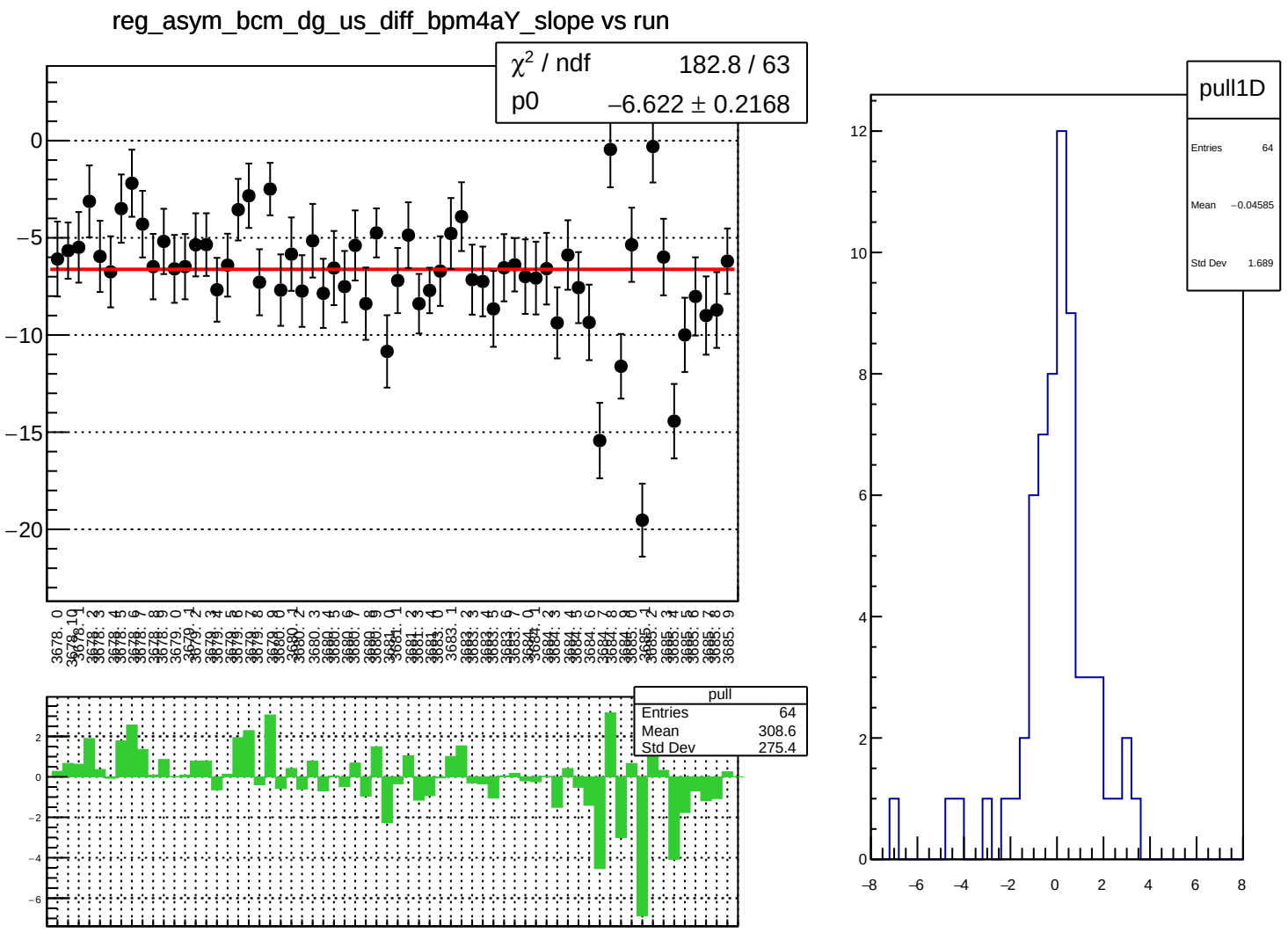

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 166.2 / 63
p0 −6.651 ± 0.2272
pull
Entries 64
Mean 549.9
Std Dev 515.8
pull1D
Entries 64
Mean −0.01799
Std Dev 1.612

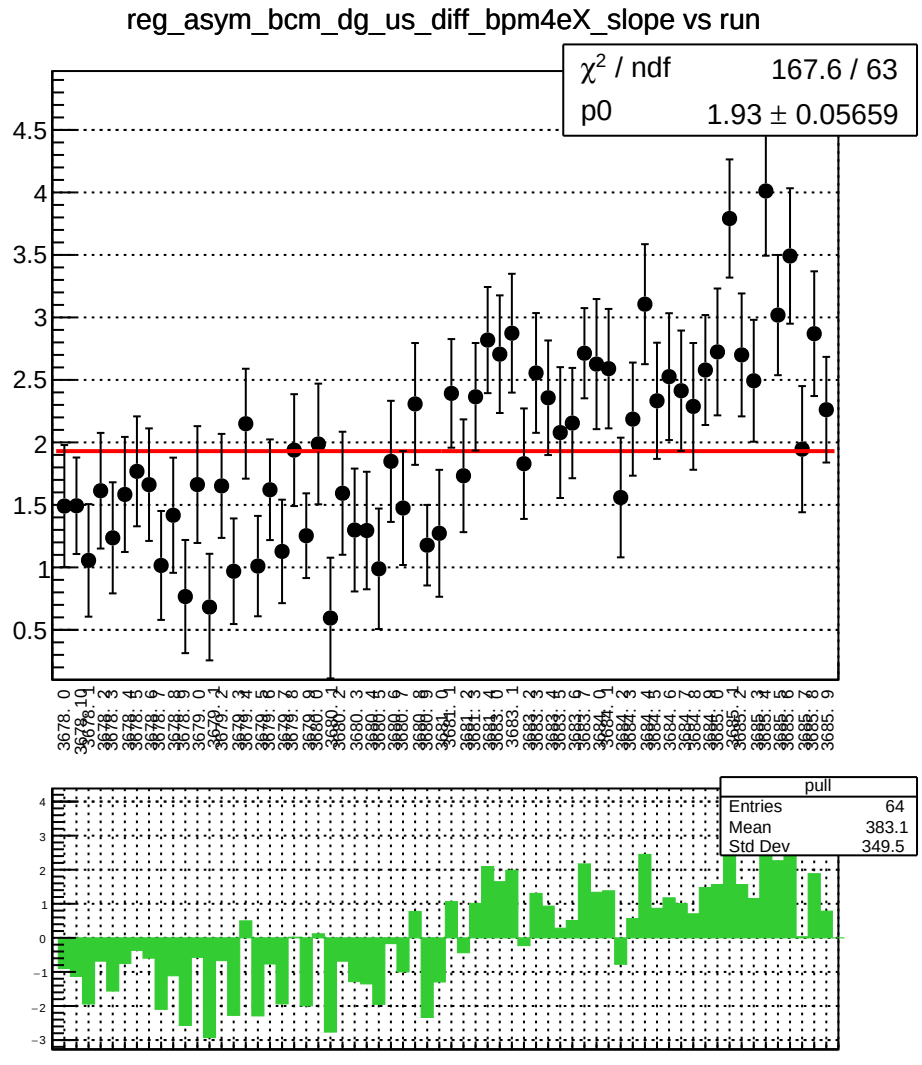

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 142.4 / 63
p0 2.09 ± 0.05932
pull
Entries 64
Mean 1706
Std Dev 1673
pull1D
Entries 64
Mean 0.01126
Std Dev 1.492

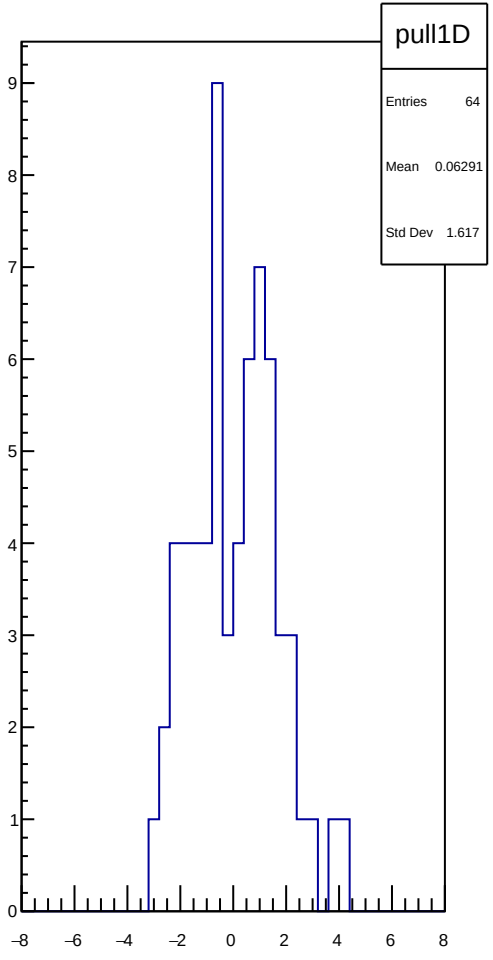

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 182.5 / 63
p0 10.65 ± 0.3557
pull
Entries 64
Mean 541.2
Std Dev 507.4
pull1D
Entries 64
Mean 0.0227
Std Dev 1.688

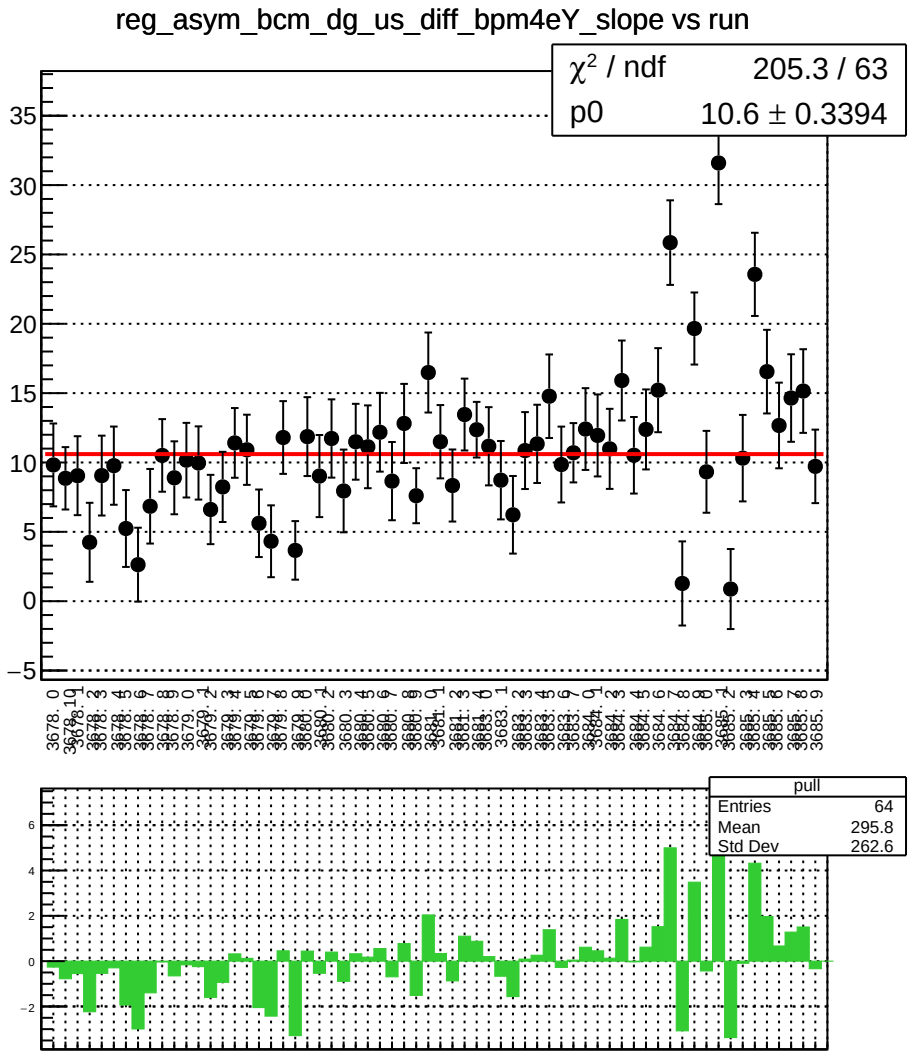

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 126 / 63
p0 2.71 ± 0.05896
pull
Entries 64
Mean 76.83
Std Dev 37.92
pull1D
Entries 64
Mean 0.03303
Std Dev 1.403

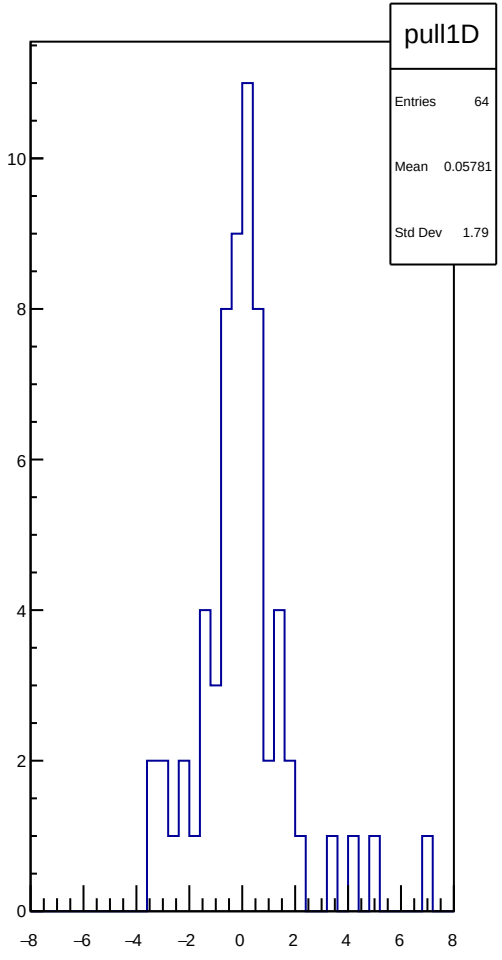

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 80.17 / 63
p0 −2.235 ± 0.2884
pull
Entries 64
Mean −2113
Std Dev 2141
pull1D
Entries 64
Mean 0.002858
Std Dev 1.119

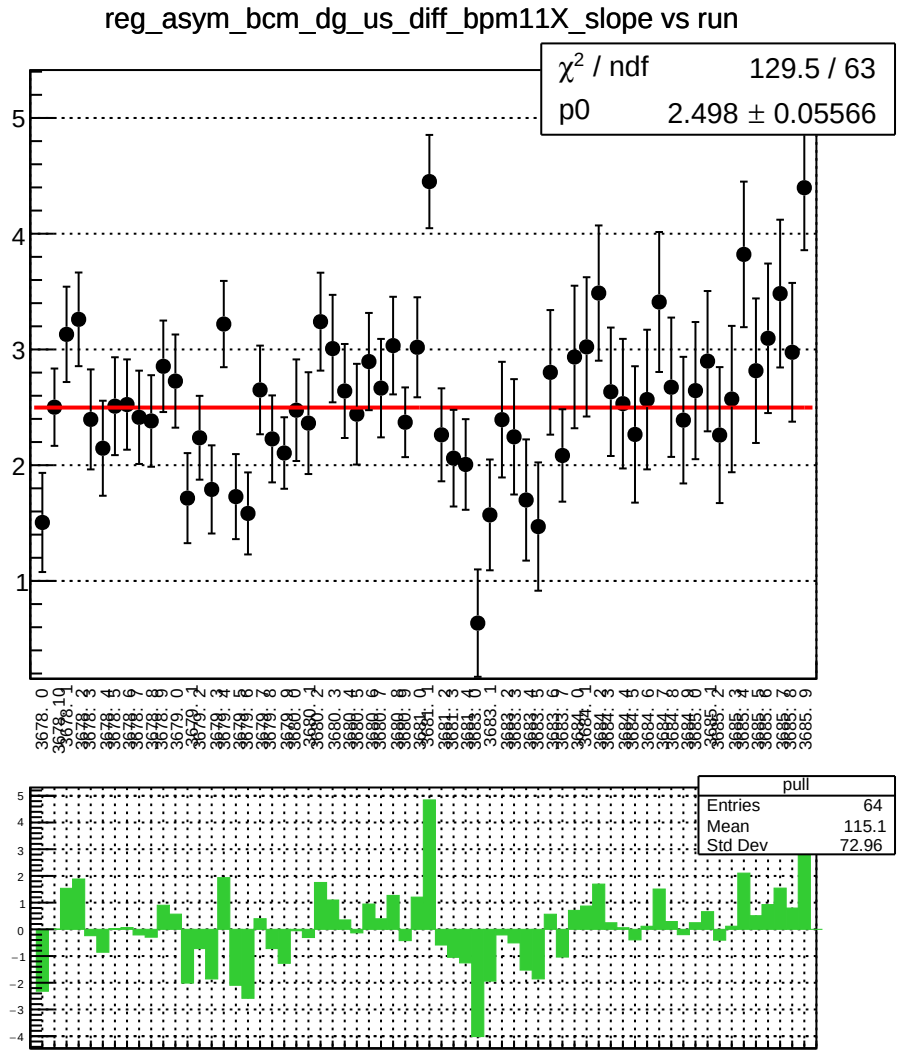

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 182.8 / 63
p0 −6.622 ± 0.2168
pull
Entries 64
Mean 308.6
Std Dev 275.4
pull1D
Entries 64
Mean −0.04585
Std Dev 1.689

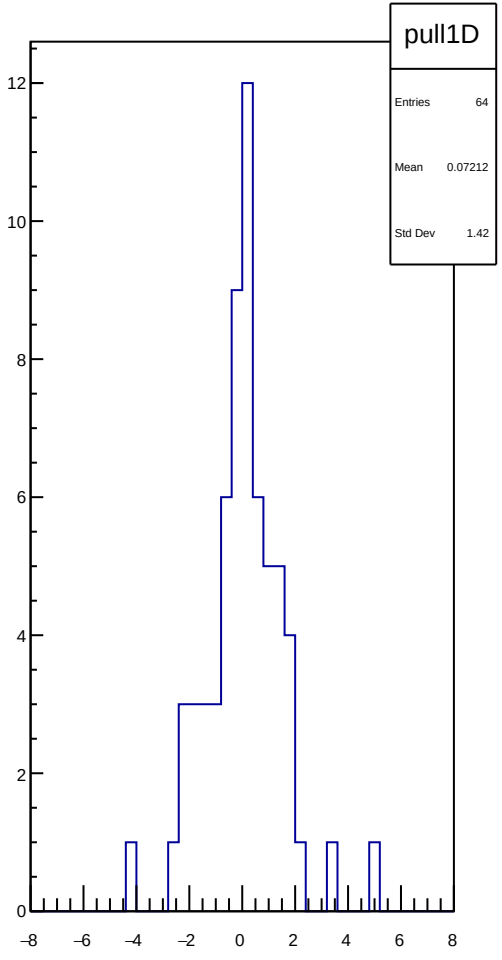

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 167.6 / 63
p0 1.93 ± 0.05659
pull
Entries 64
Mean 383.1
Std Dev 349.5

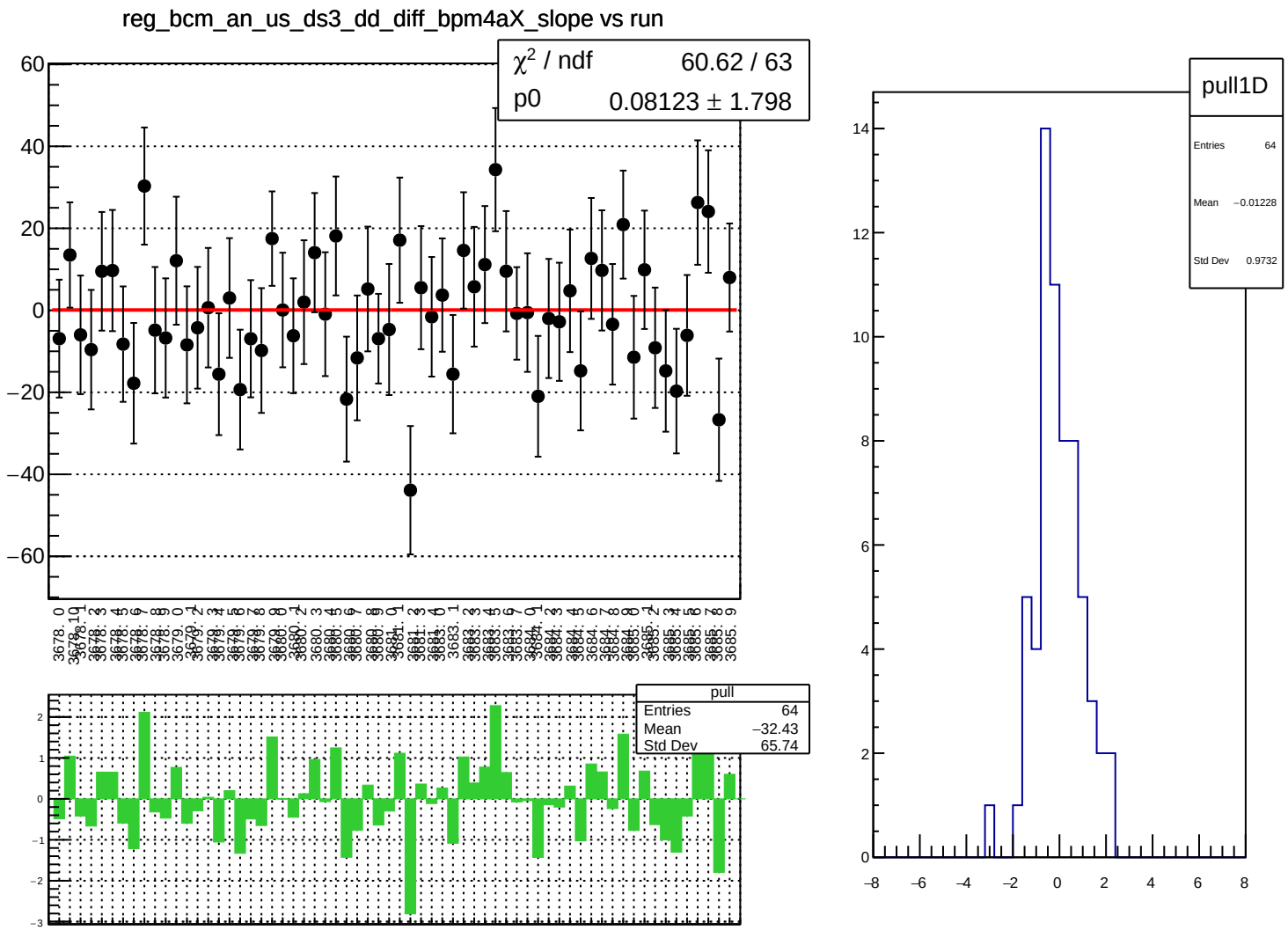

pull1D
Entries 64
Mean 0.06291
Std Dev 1.617

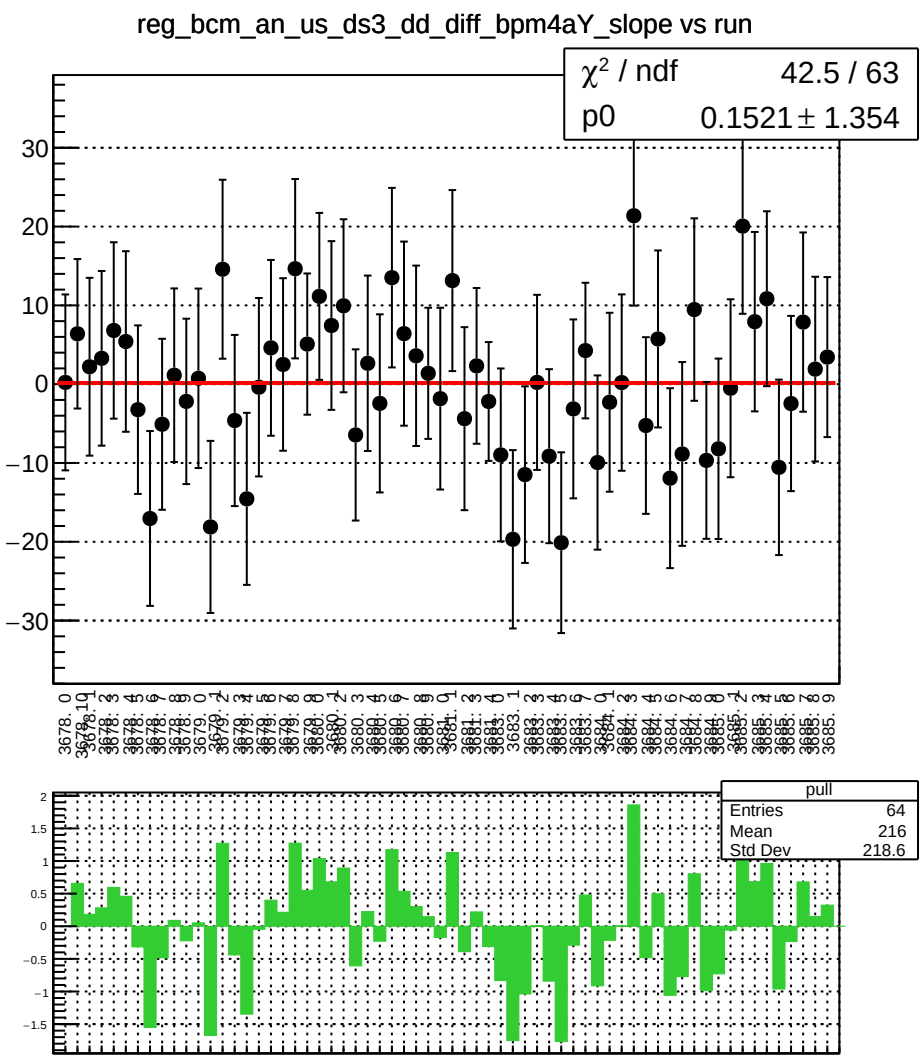

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 205.3 / 63
p0 10.6 ± 0.3394
pull
Entries 64
Mean 295.8
Std Dev 262.6

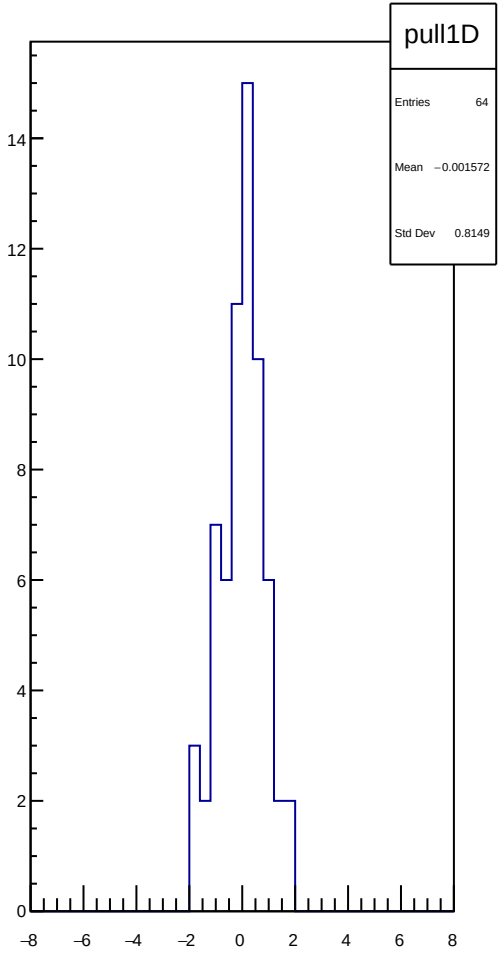

pull1D
Entries 64
Mean 0.05781
Std Dev 1.79

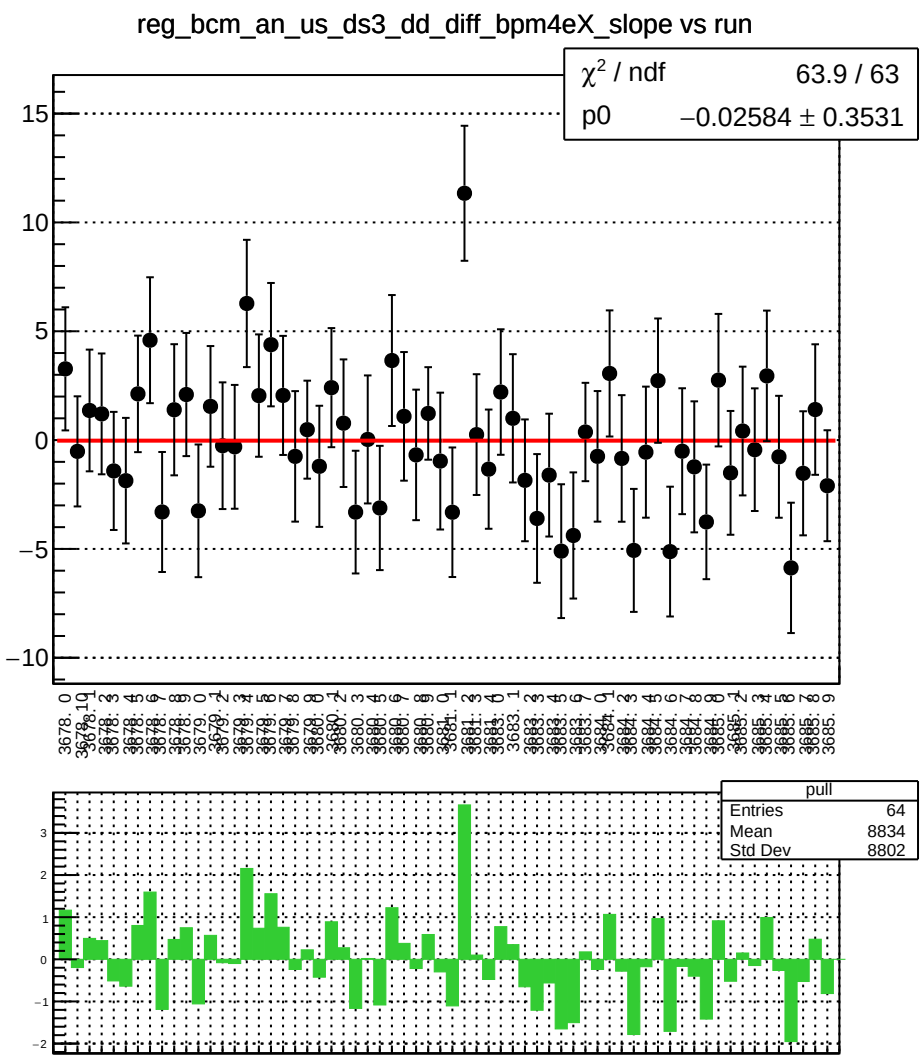

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 129.5 / 63
p0 2.498 ± 0.05566
pull
Entries 64
Mean 115.1
Std Dev 72.96

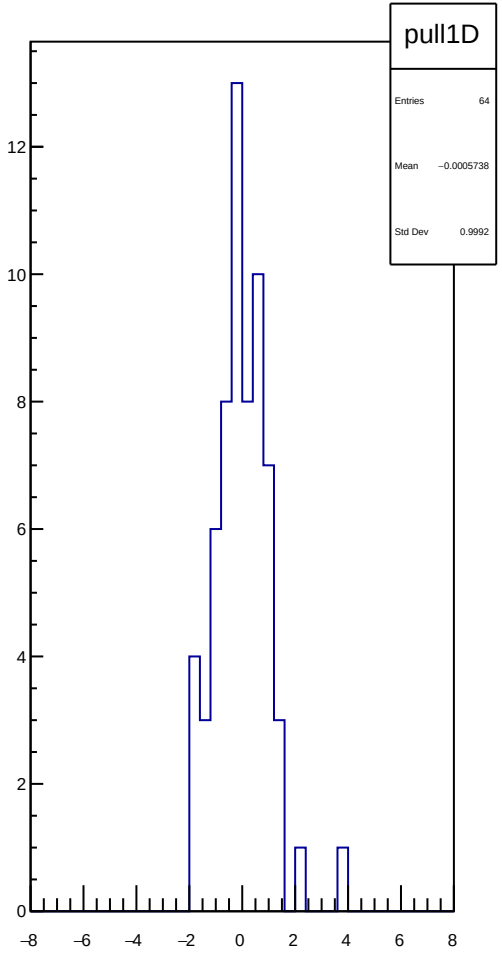

pull1D
Entries 64
Mean 0.07212
Std Dev 1.42

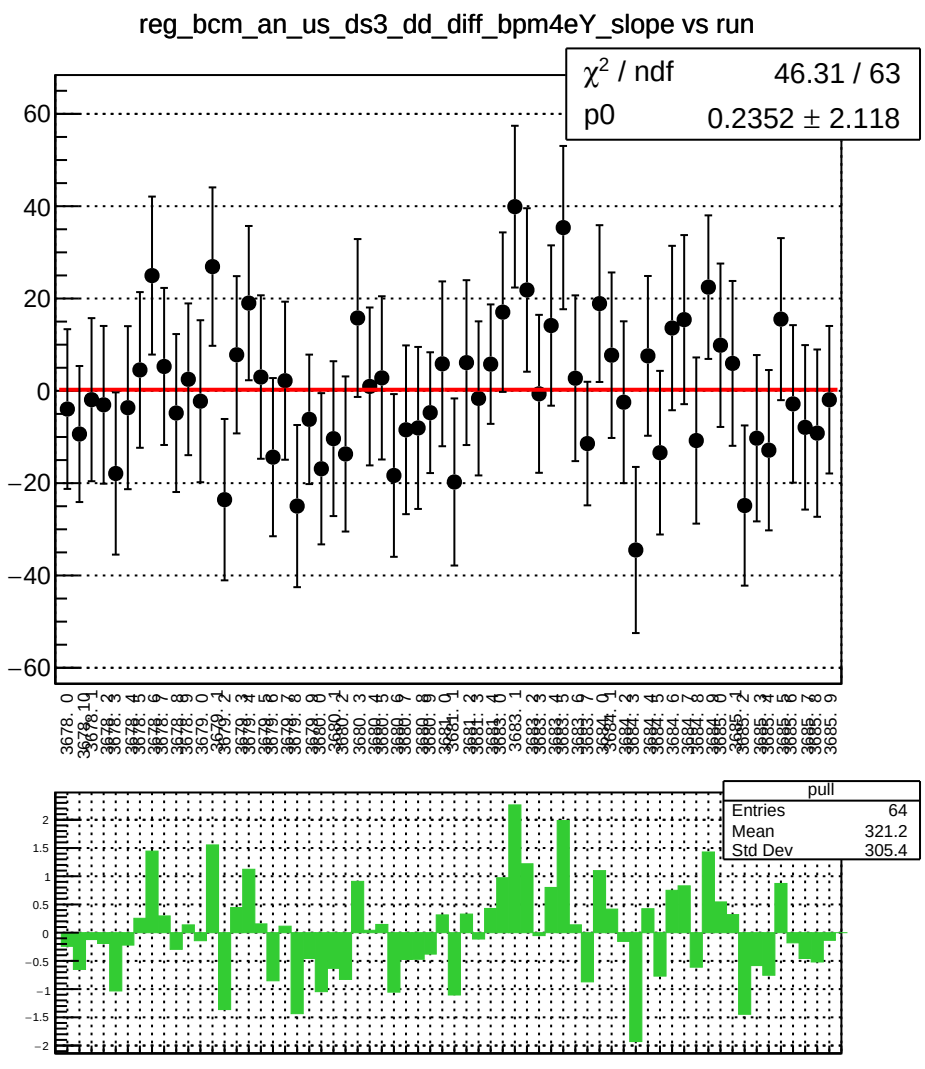

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 60.62 / 63
p0 0.08123 ± 1.798
pull
Entries 64
Mean −32.43
Std Dev 65.74
pull1D
Entries 64
Mean −0.01228
Std Dev 0.9732

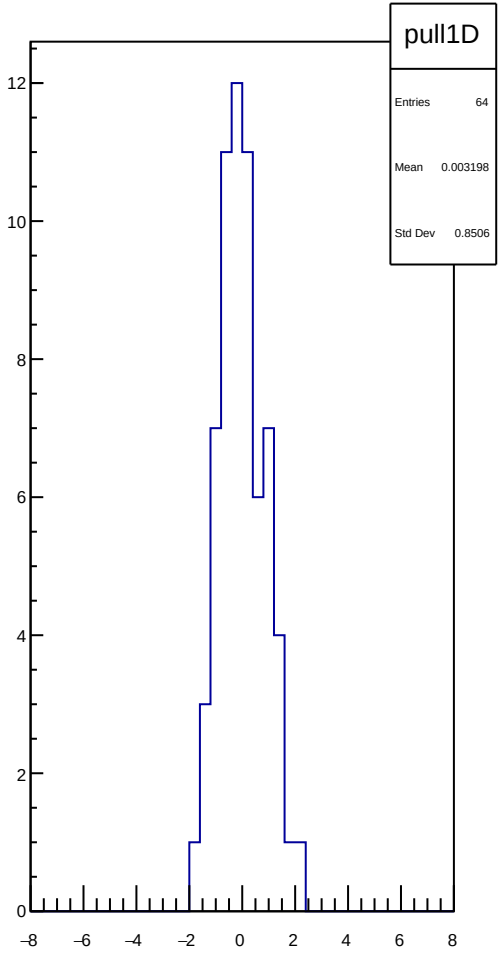

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.5 / 63
p0 0.1521 ± 1.354
pull
Entries 64
Mean 216
Std Dev 218.6

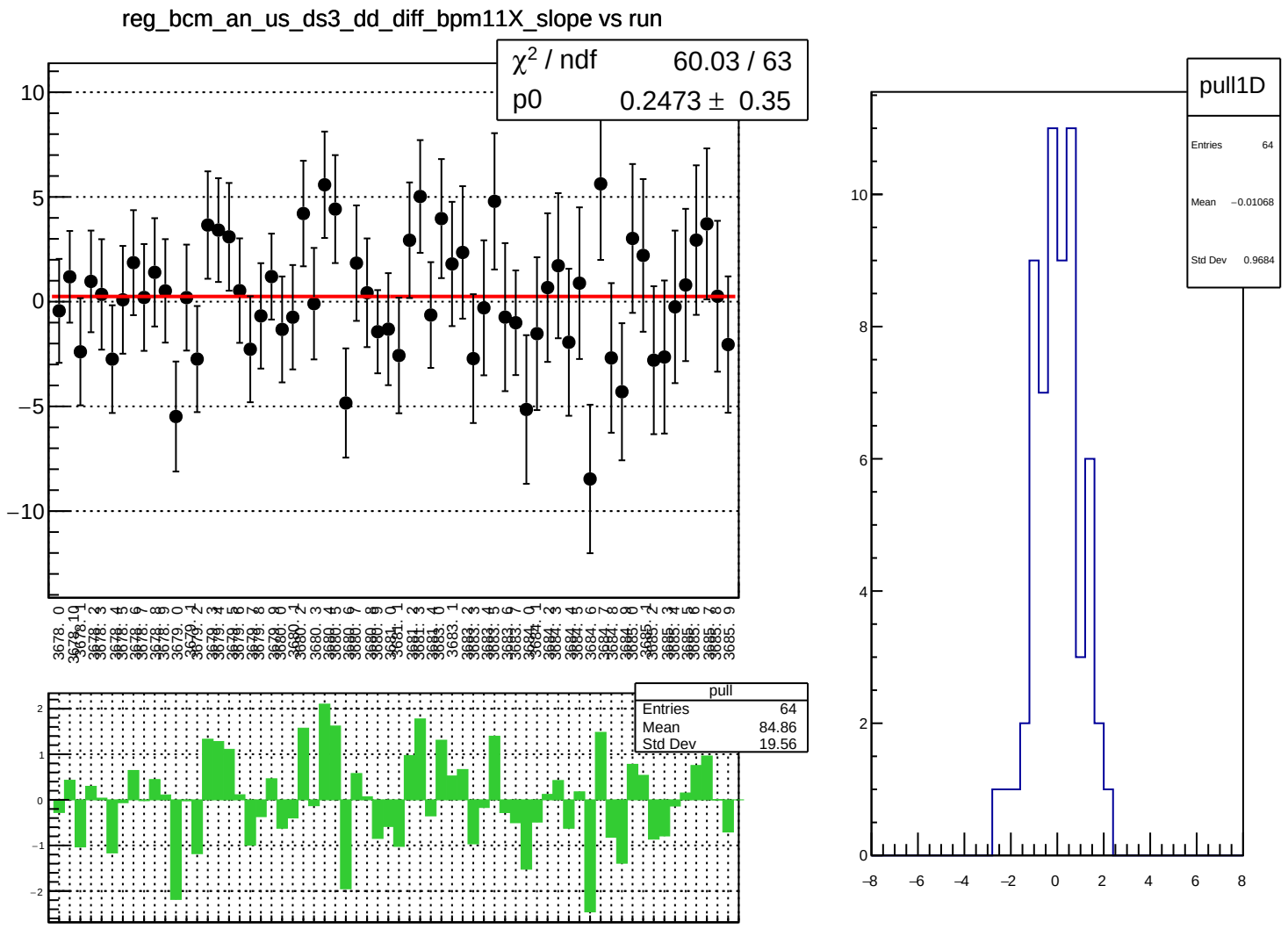

pull1D
Entries 64
Mean −0.001572
Std Dev 0.8149

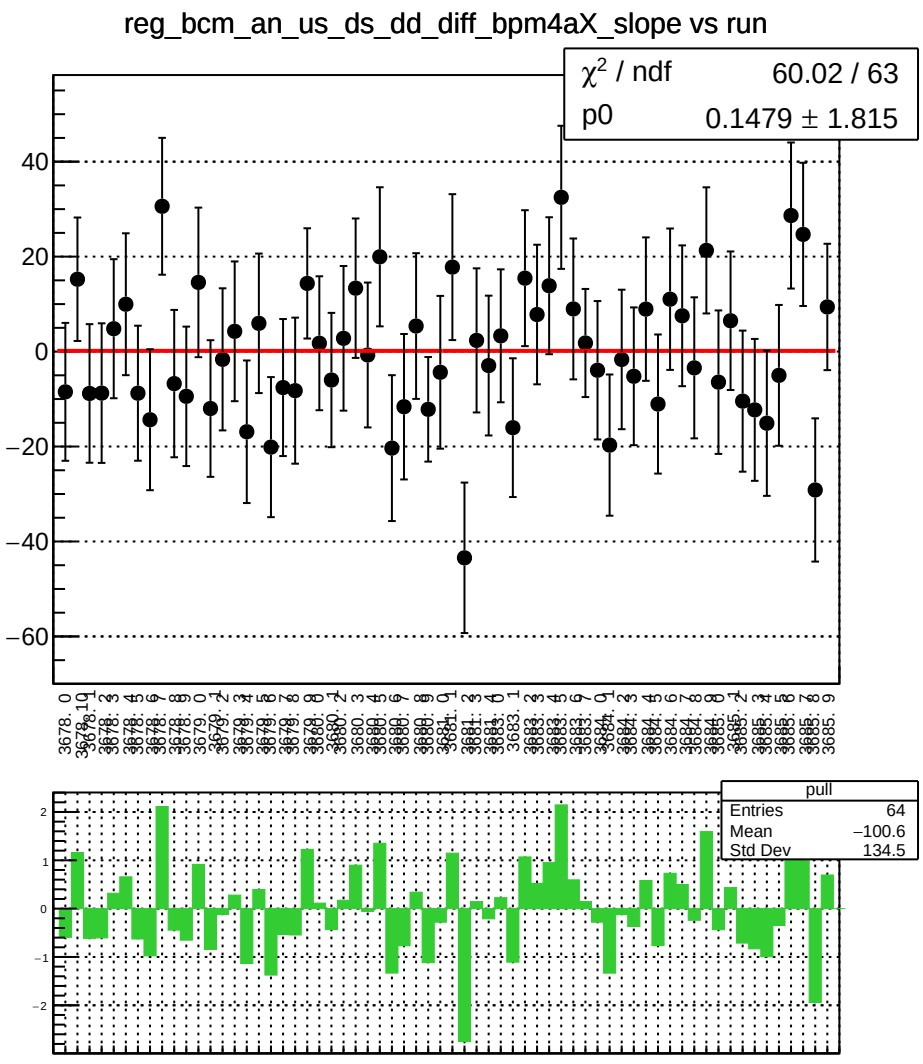

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.9 / 63
p0 −0.02584 ± 0.3531
pull
Entries 64
Mean 8834
Std Dev 8802

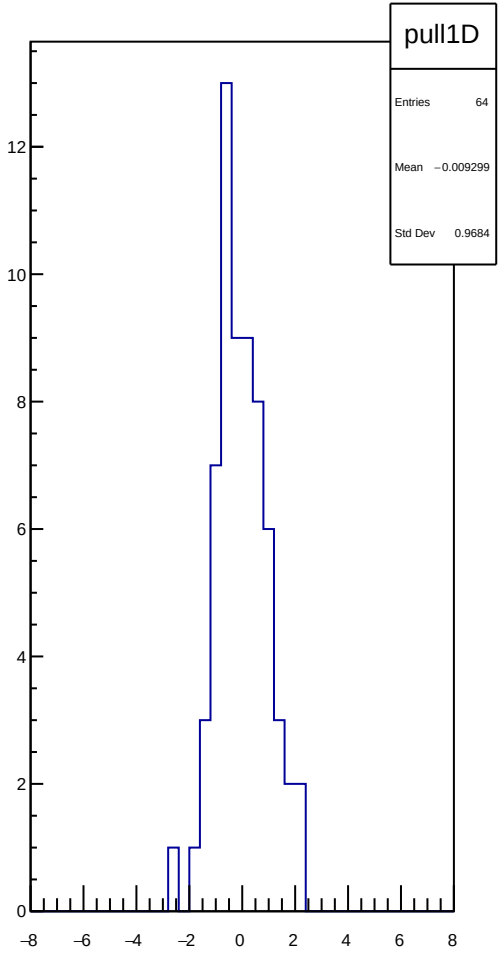

pull1D
Entries 64
Mean −0.0005738
Std Dev 0.9992

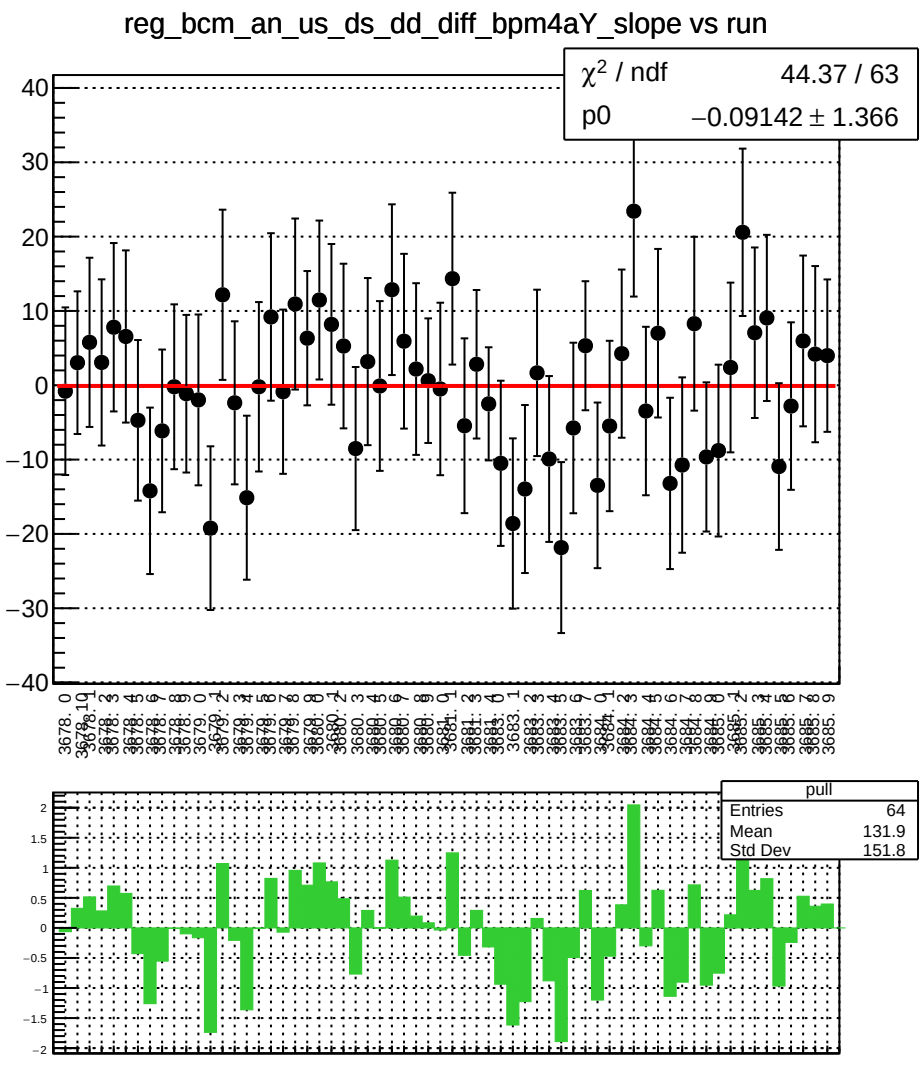

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.31 / 63
p0 0.2352 ± 2.118
pull
Entries 64
Mean 321.2
Std Dev 305.4

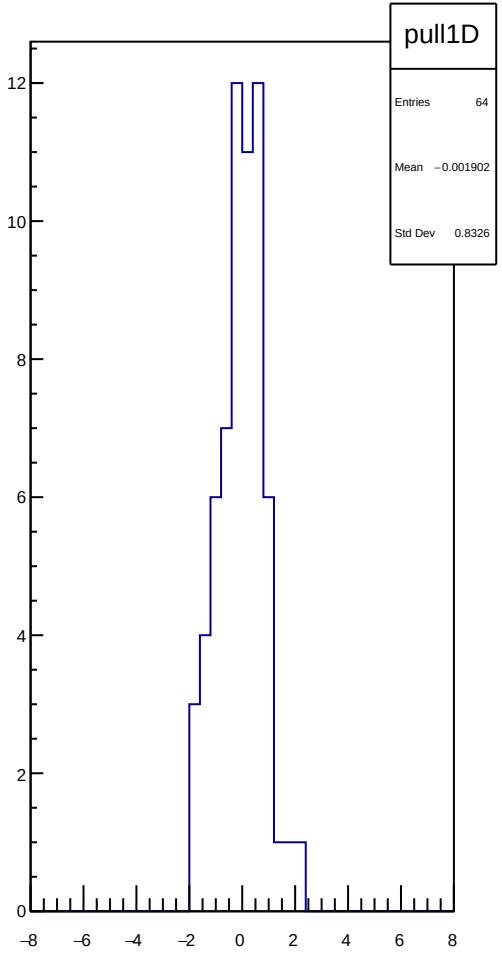

pull1D
Entries 64
Mean 0.003198
Std Dev 0.8506

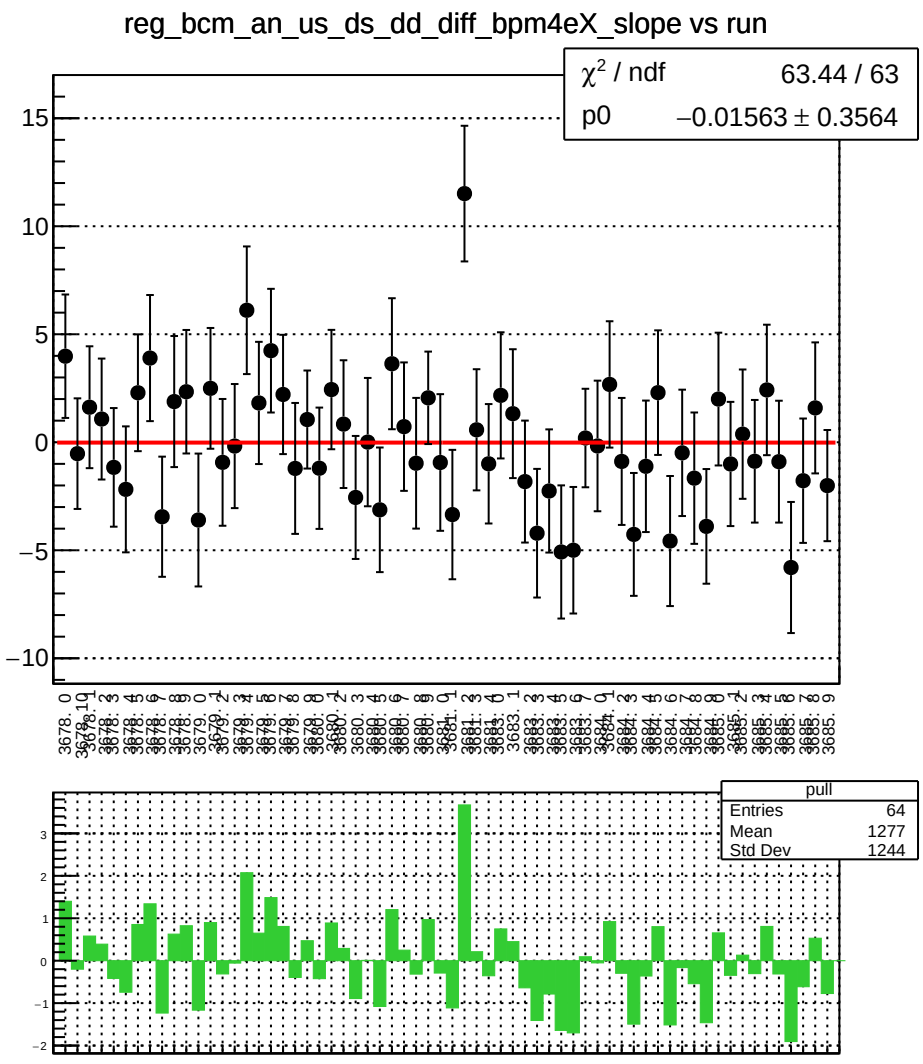

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 60.03 / 63
p0 0.2473 ± 0.35
pull
Entries 64
Mean 84.86
Std Dev 19.56
pull1D
Entries 64
Mean −0.01068
Std Dev 0.9684

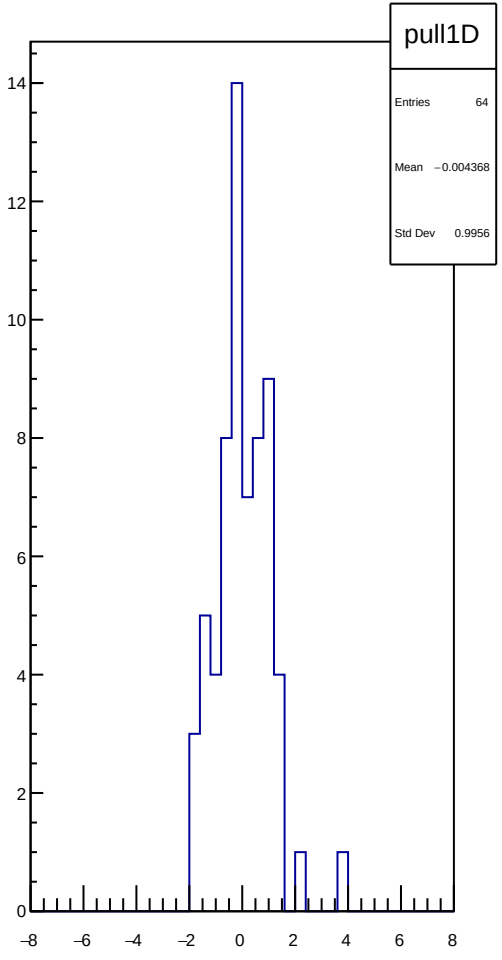

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 60.02 / 63
p0 0.1479 ± 1.815
pull
Entries 64
Mean −100.6
Std Dev 134.5

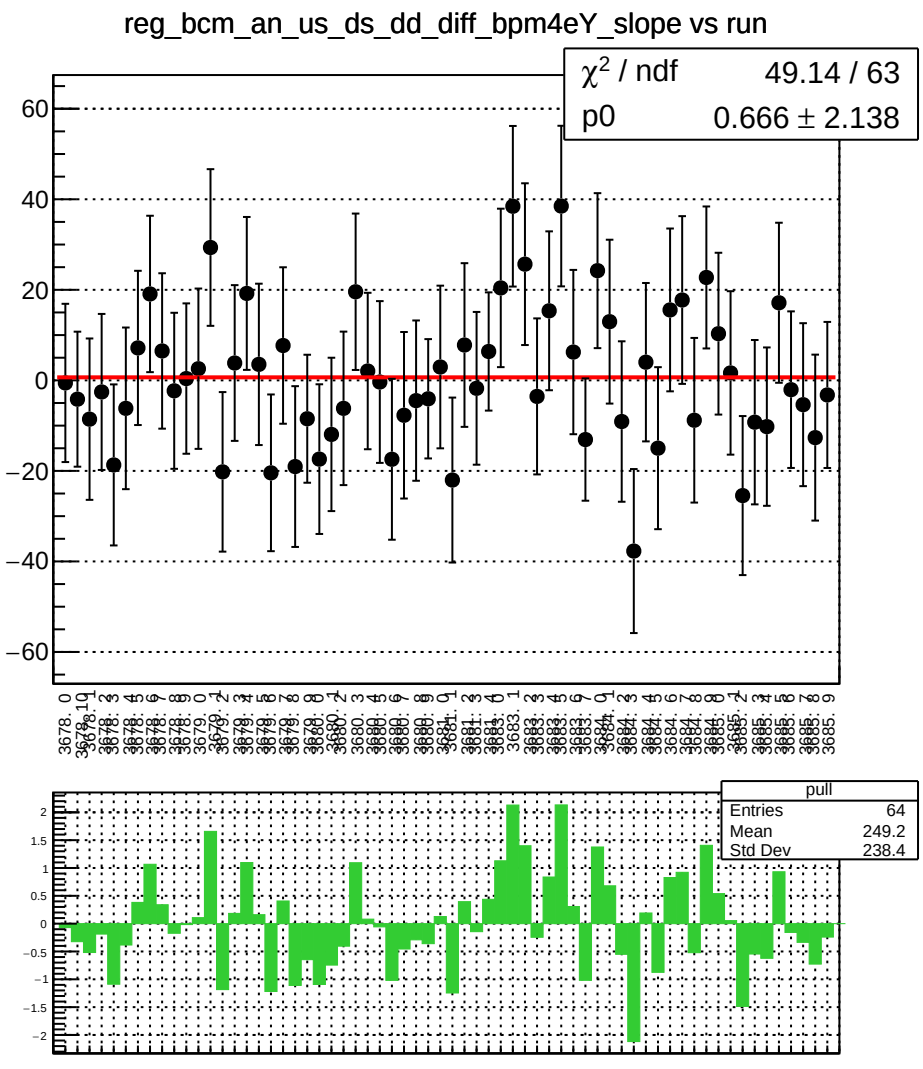

pull1D
Entries 64
Mean −0.009299
Std Dev 0.9684

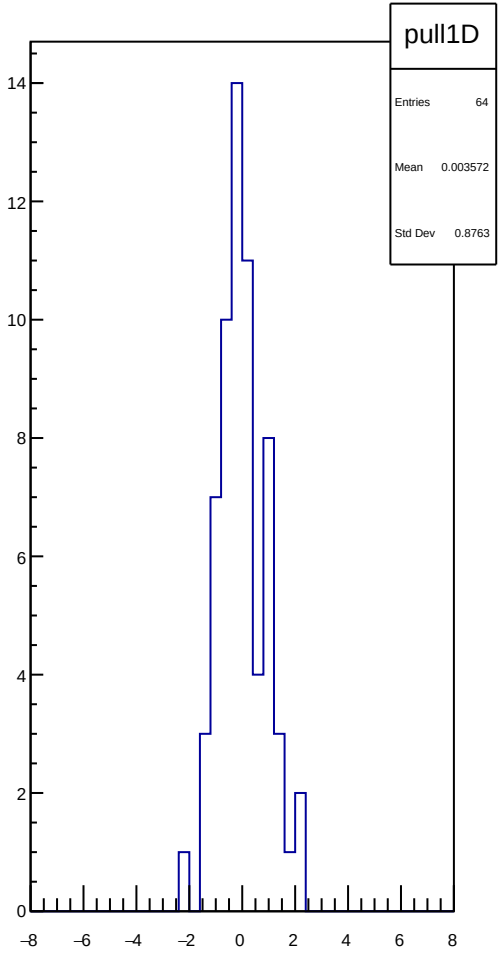

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.37 / 63
p0 −0.09142 ± 1.366
pull
Entries 64
Mean 131.9
Std Dev 151.8

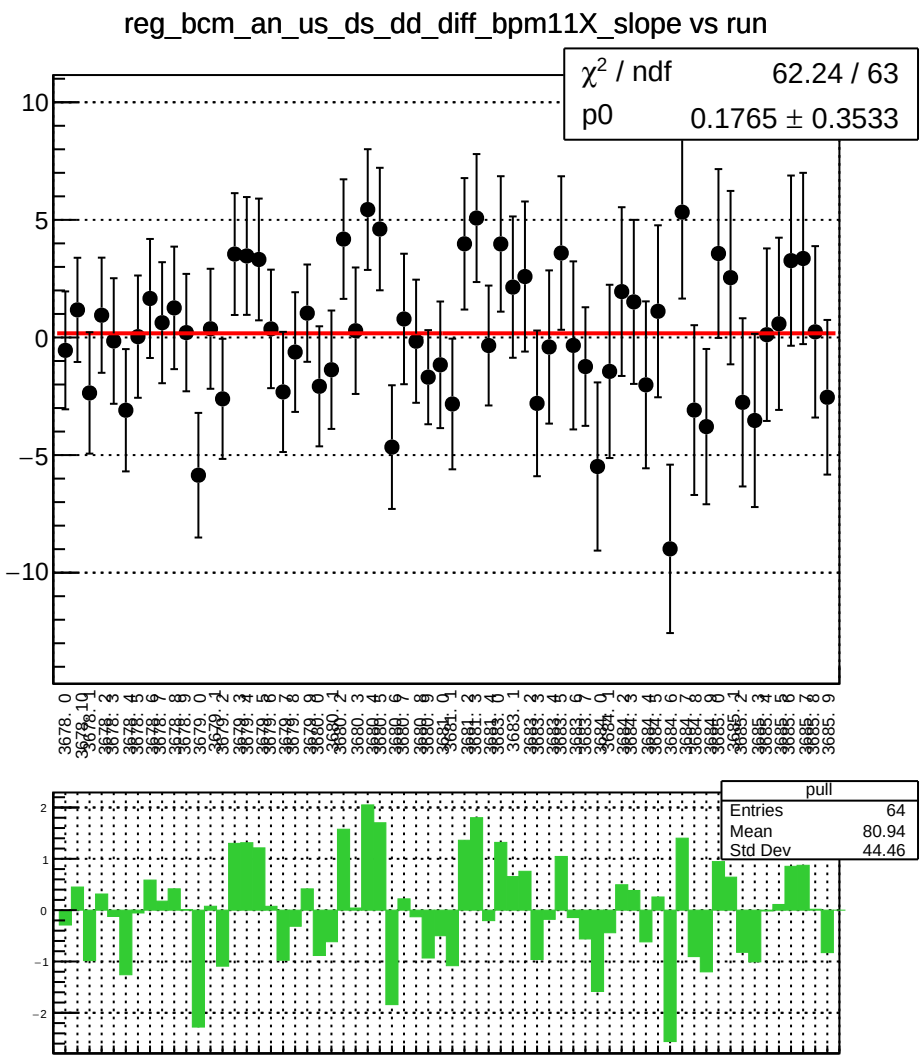

pull1D
Entries 64
Mean −0.001902
Std Dev 0.8326

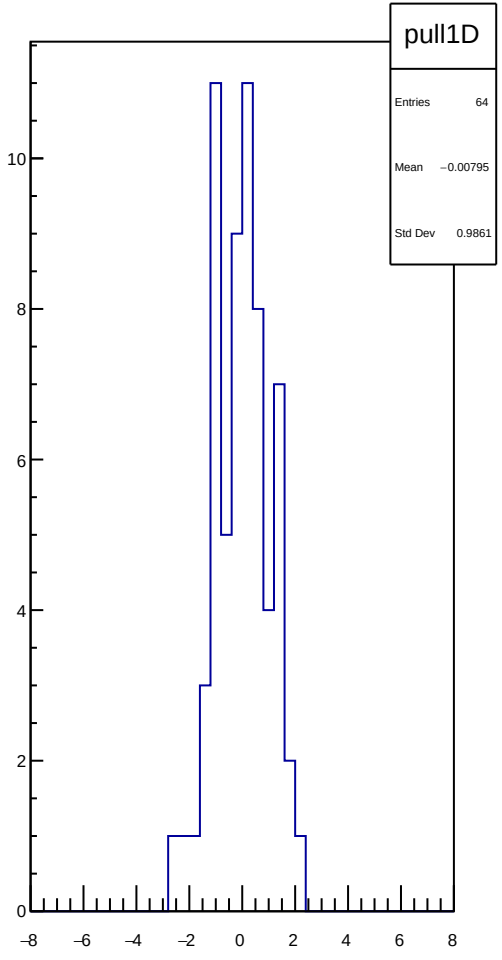

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.44 / 63
p0 −0.01563 ± 0.3564
pull
Entries 64
Mean 1277
Std Dev 1244

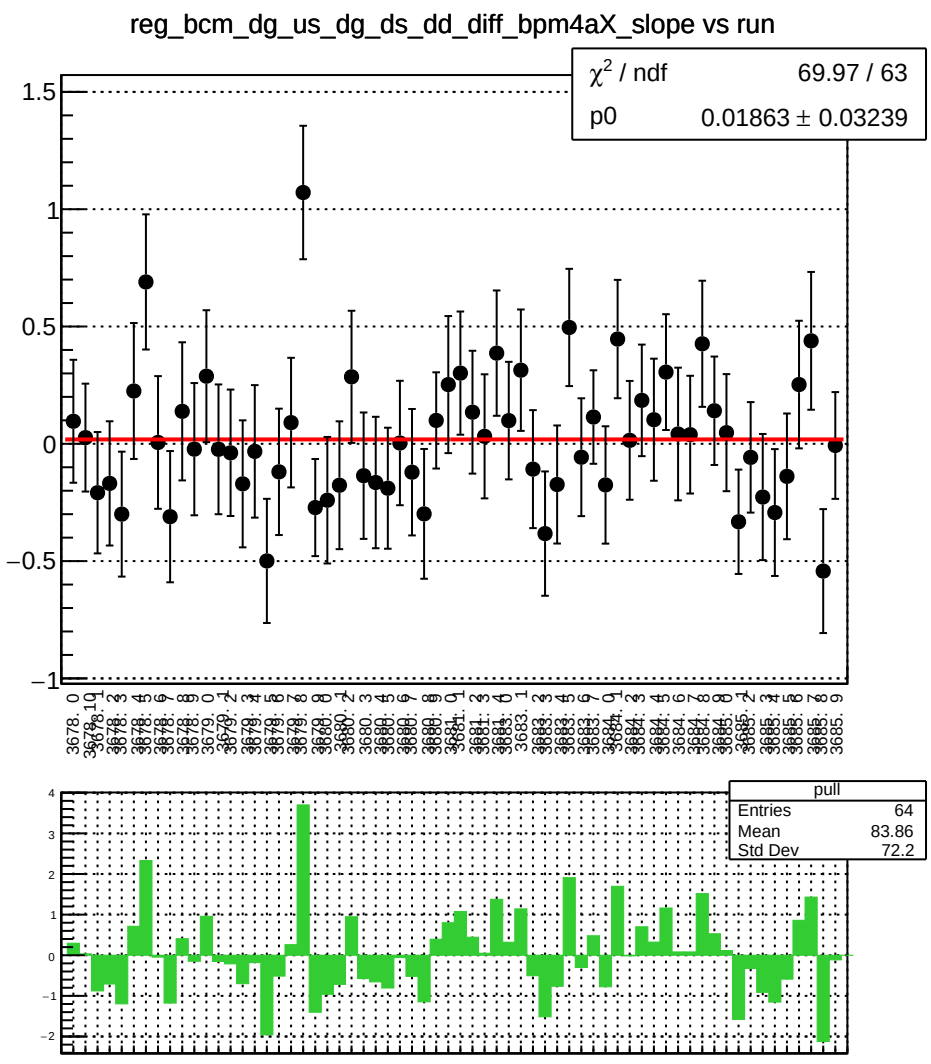

pull1D
Entries 64
Mean −0.004368
Std Dev 0.9956

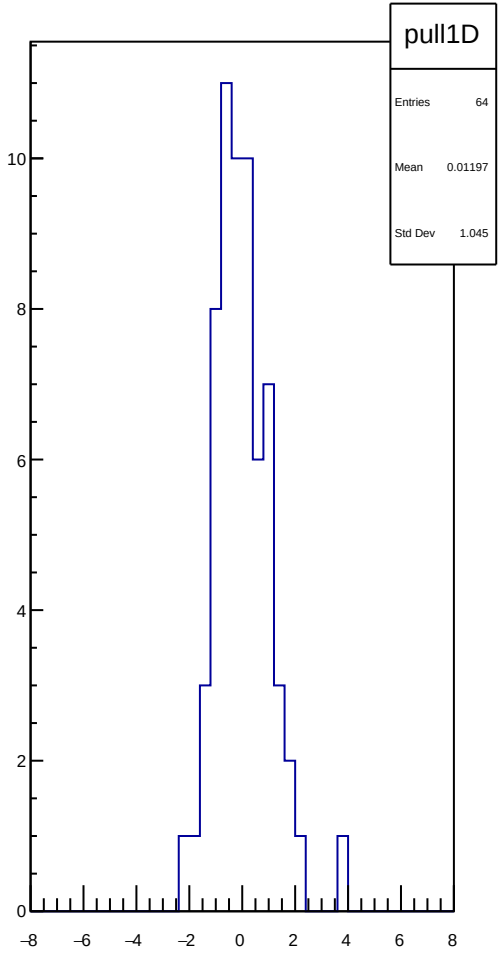

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 49.14 / 63
p0 0.666 ± 2.138
pull
Entries 64
Mean 249.2
Std Dev 238.4

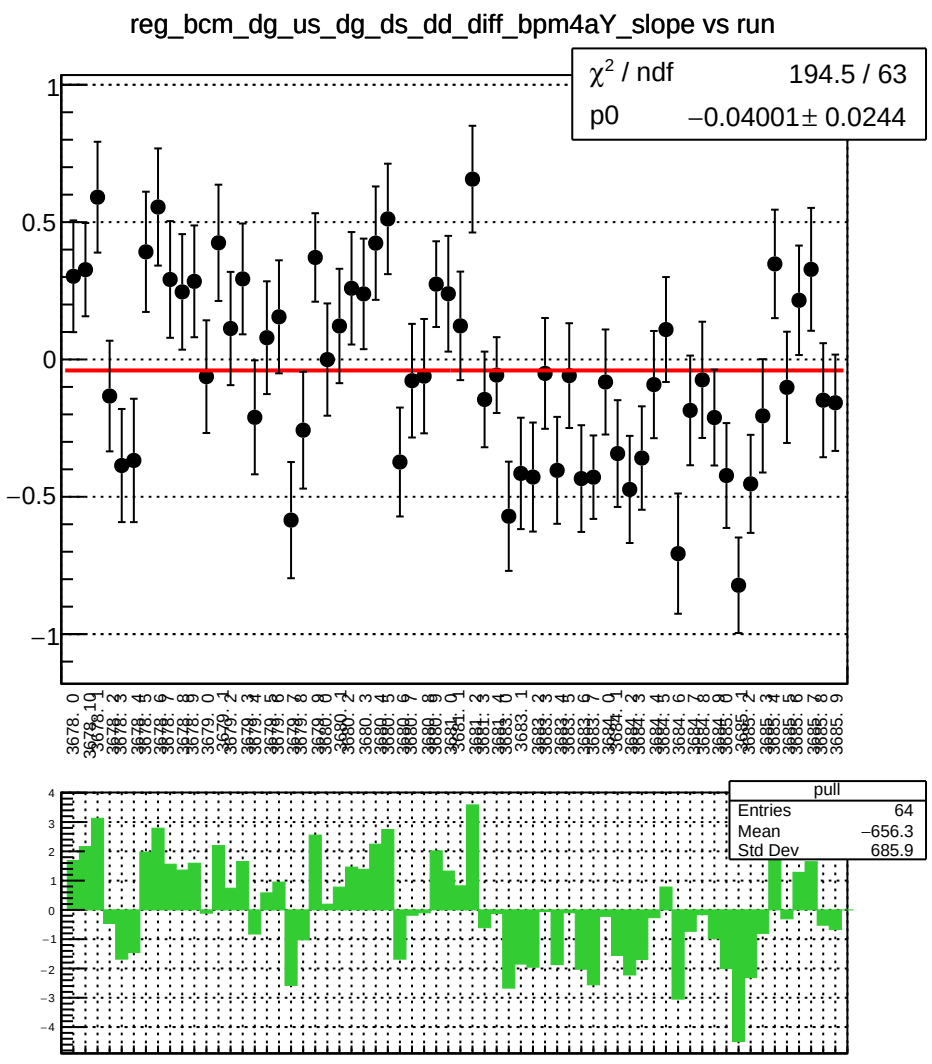

pull1D
Entries 64
Mean 0.003572
Std Dev 0.8763

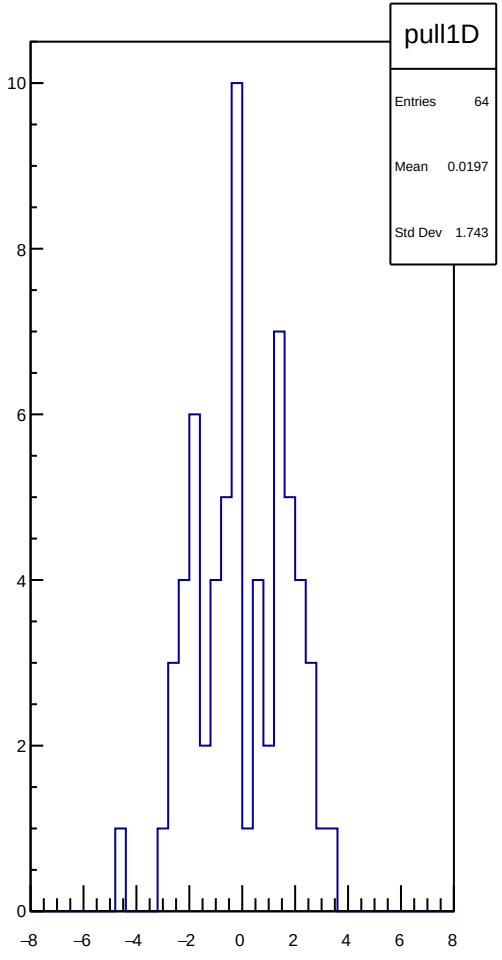

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 62.24 / 63
p0 0.1765 ± 0.3533
pull
Entries 64
Mean 80.94
Std Dev 44.46

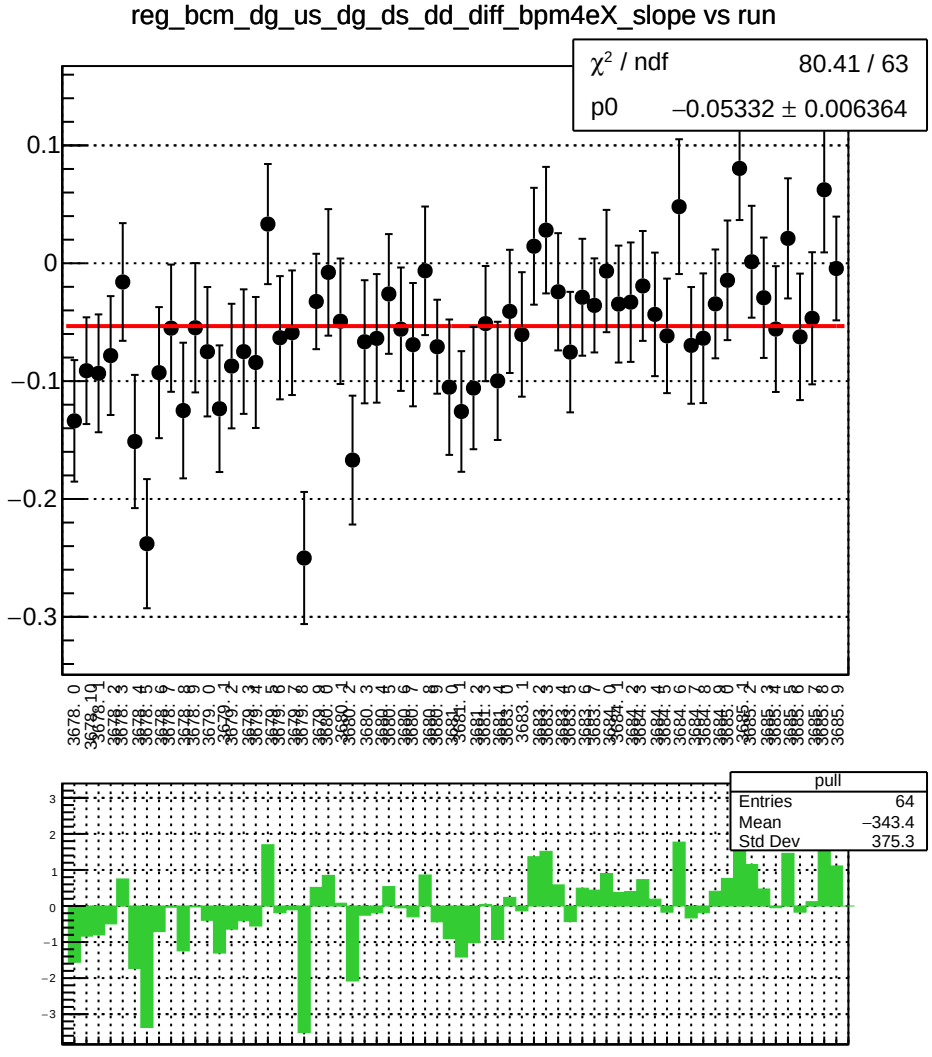

pull1D
Entries 64
Mean −0.00795
Std Dev 0.9861

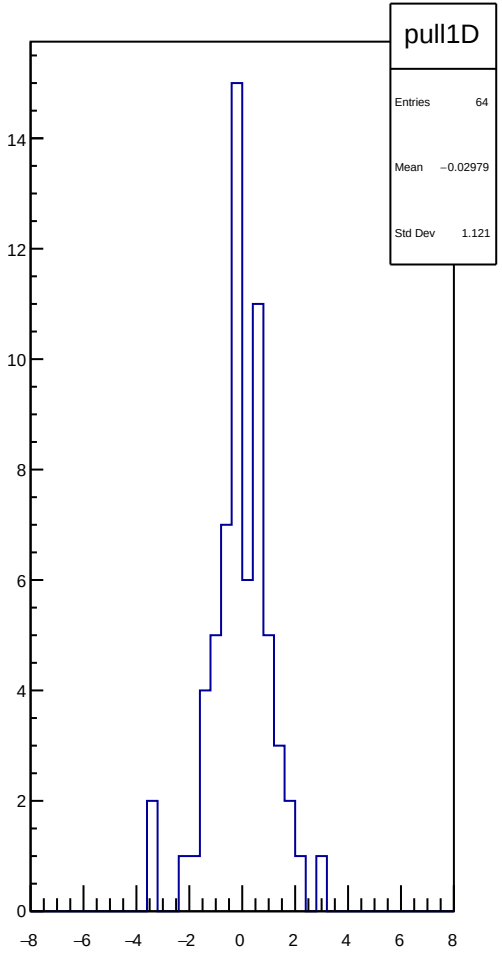

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 69.97 / 63
p0 0.01863 ± 0.03239
pull
Entries 64
Mean 83.86
Std Dev 72.2

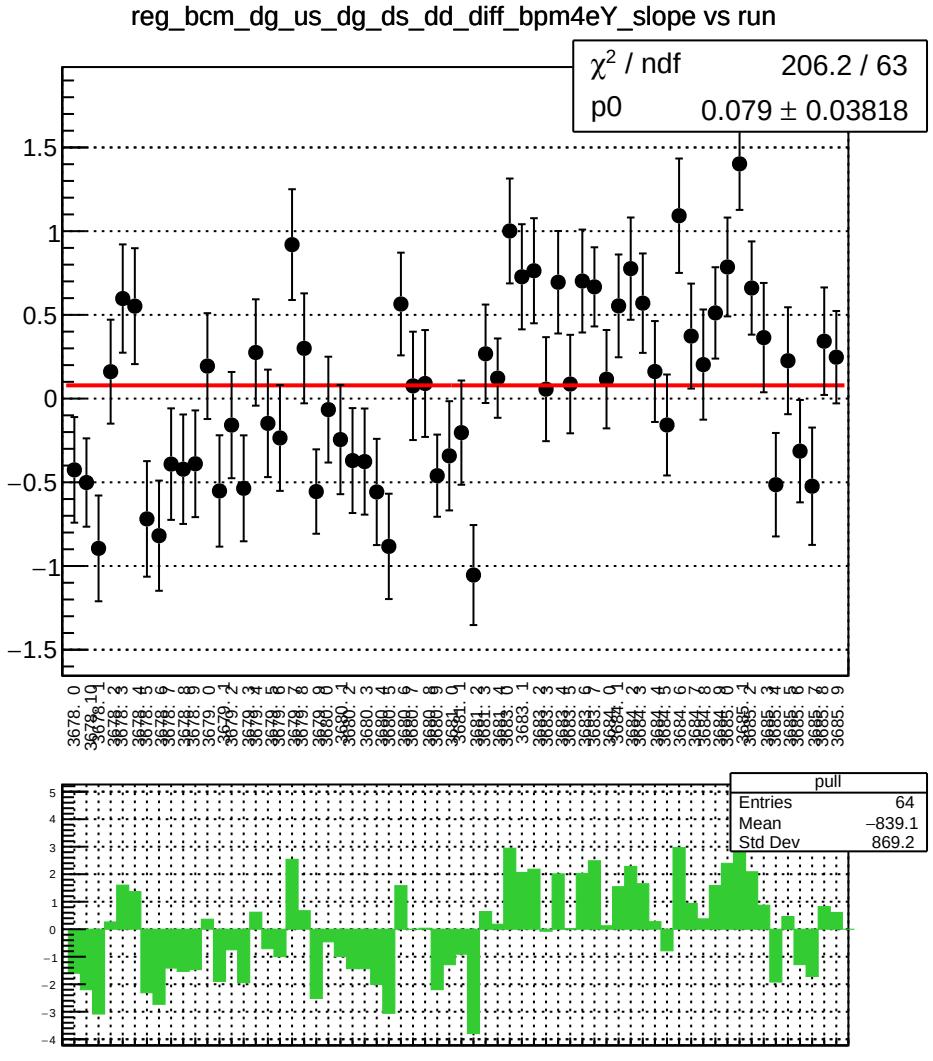

pull1D
Entries 64
Mean 0.01197
Std Dev 1.045

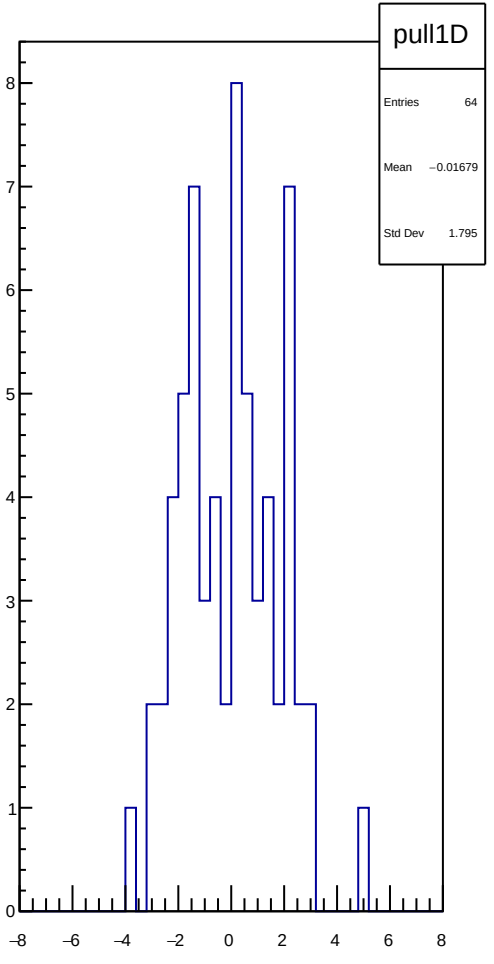

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 194.5 / 63
p0 −0.04001± 0.0244
pull
Entries 64
Mean −656.3
Std Dev 685.9

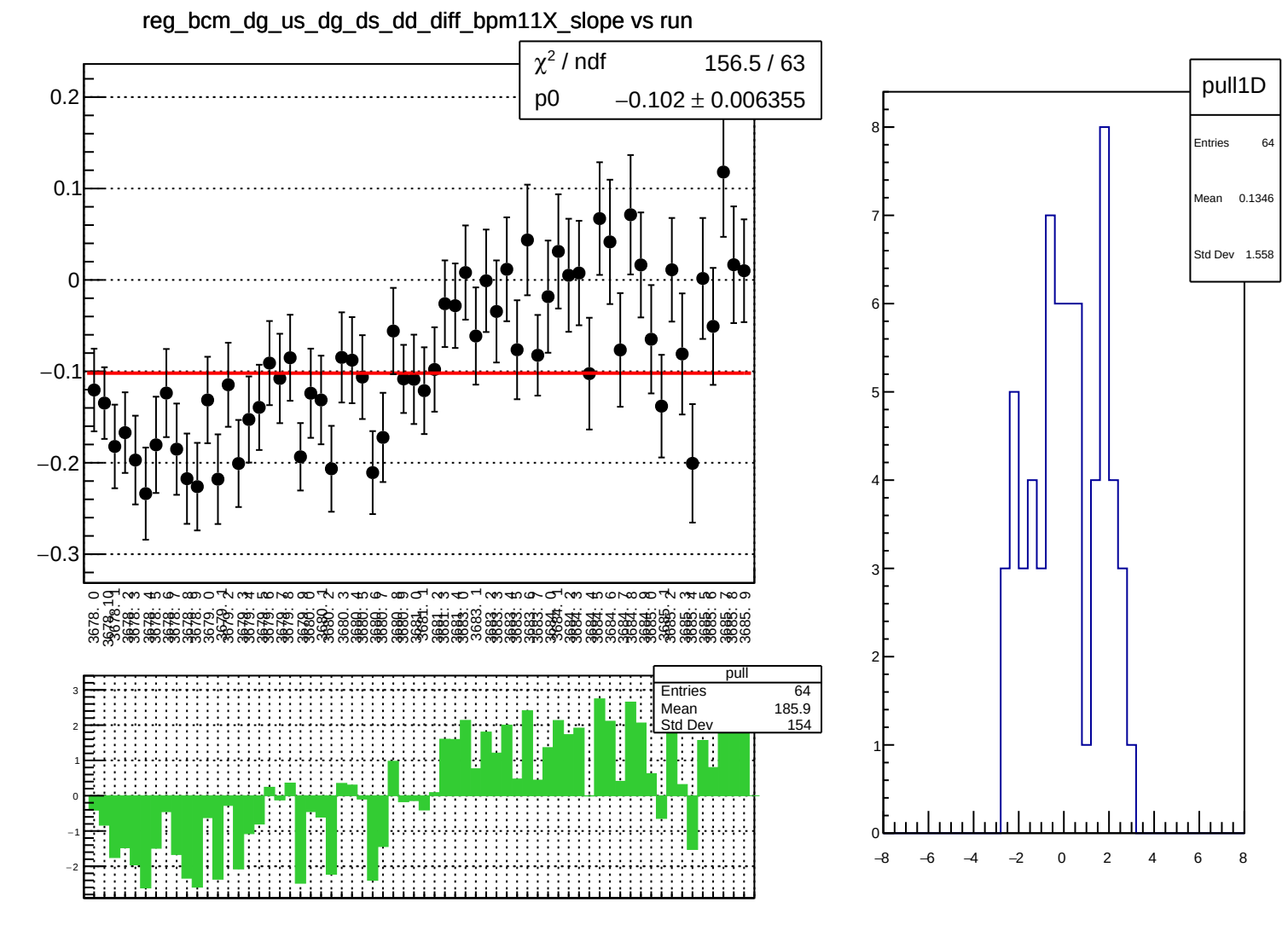

pull1D
Entries 64
Mean 0.0197
Std Dev 1.743

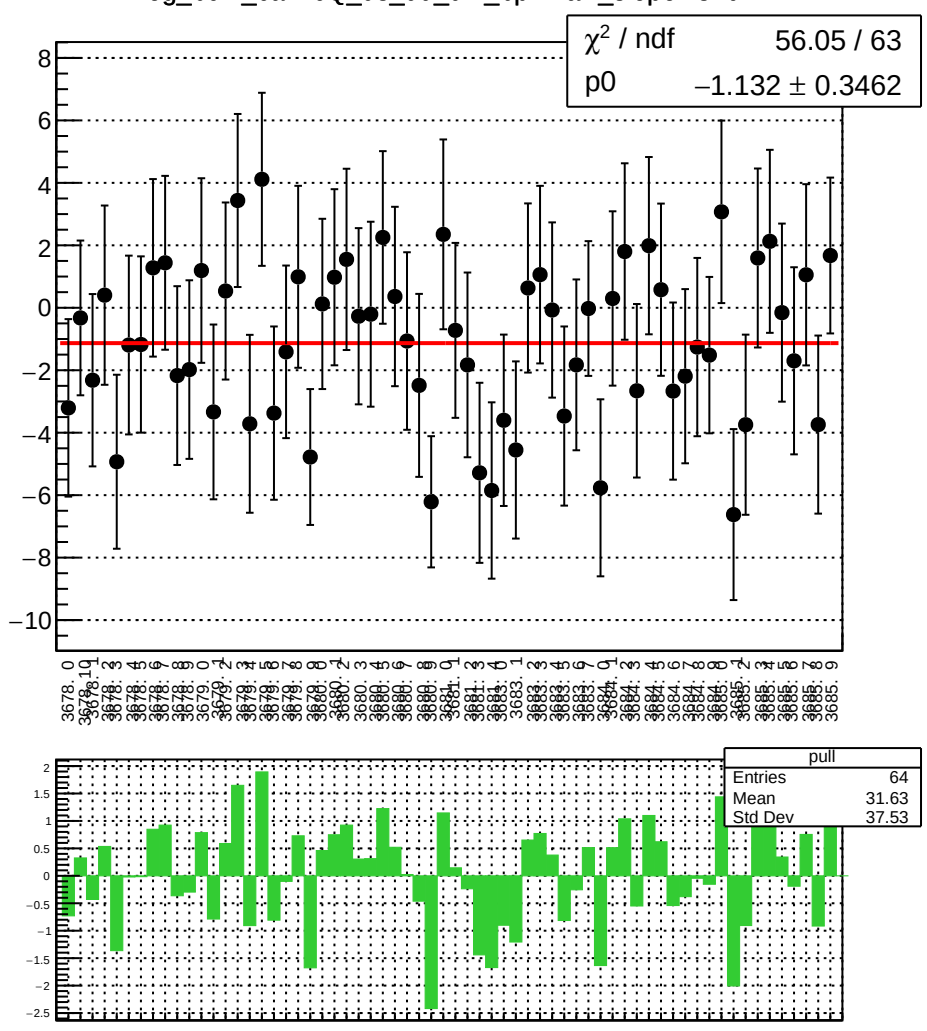

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.41 / 63
p0 −0.05332 ± 0.006364
pull
Entries 64
Mean −343.4
Std Dev 375.3

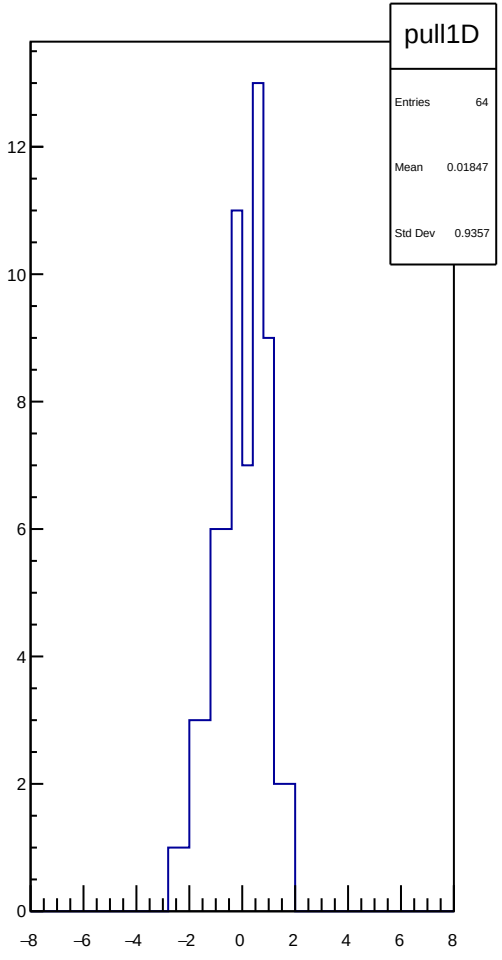

pull1D
Entries 64
Mean −0.02979
Std Dev 1.121

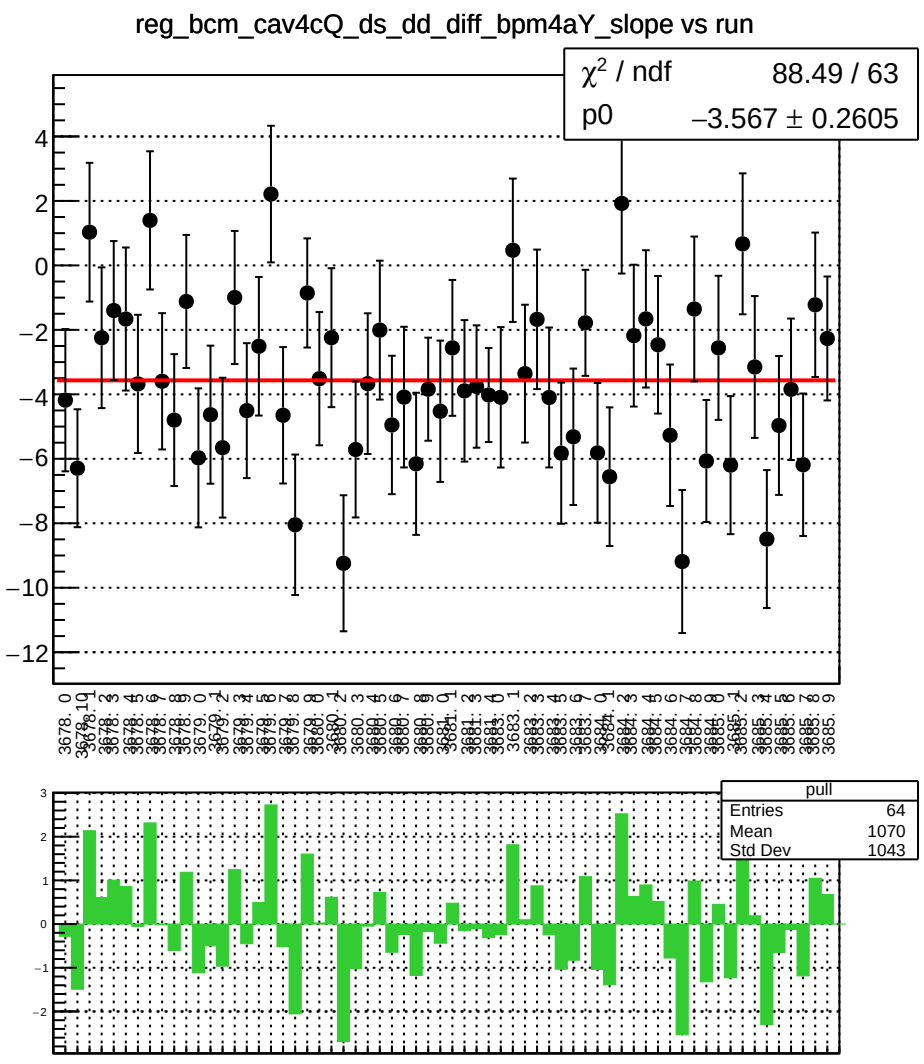

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 206.2 / 63
p0 0.079 ± 0.03818
pull
Entries 64
Mean −839.1
Std Dev 869.2

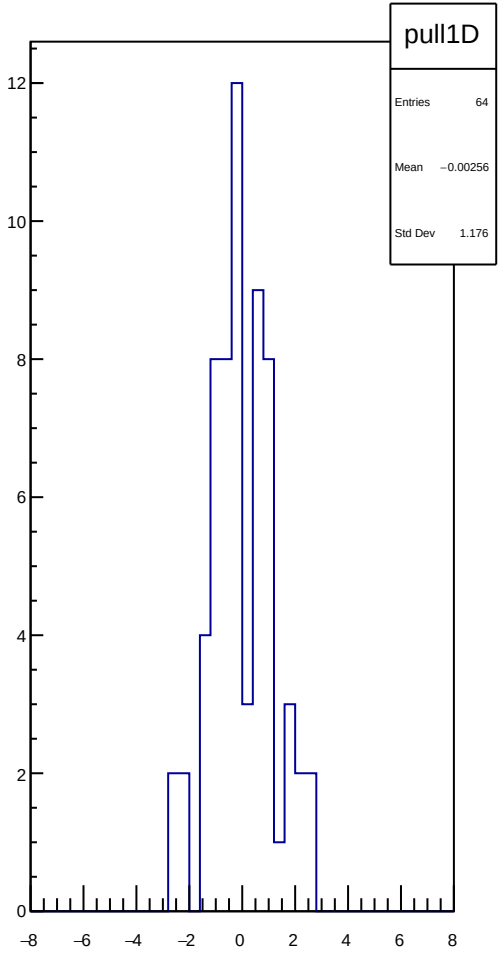

pull1D
Entries 64
Mean −0.01679
Std Dev 1.795

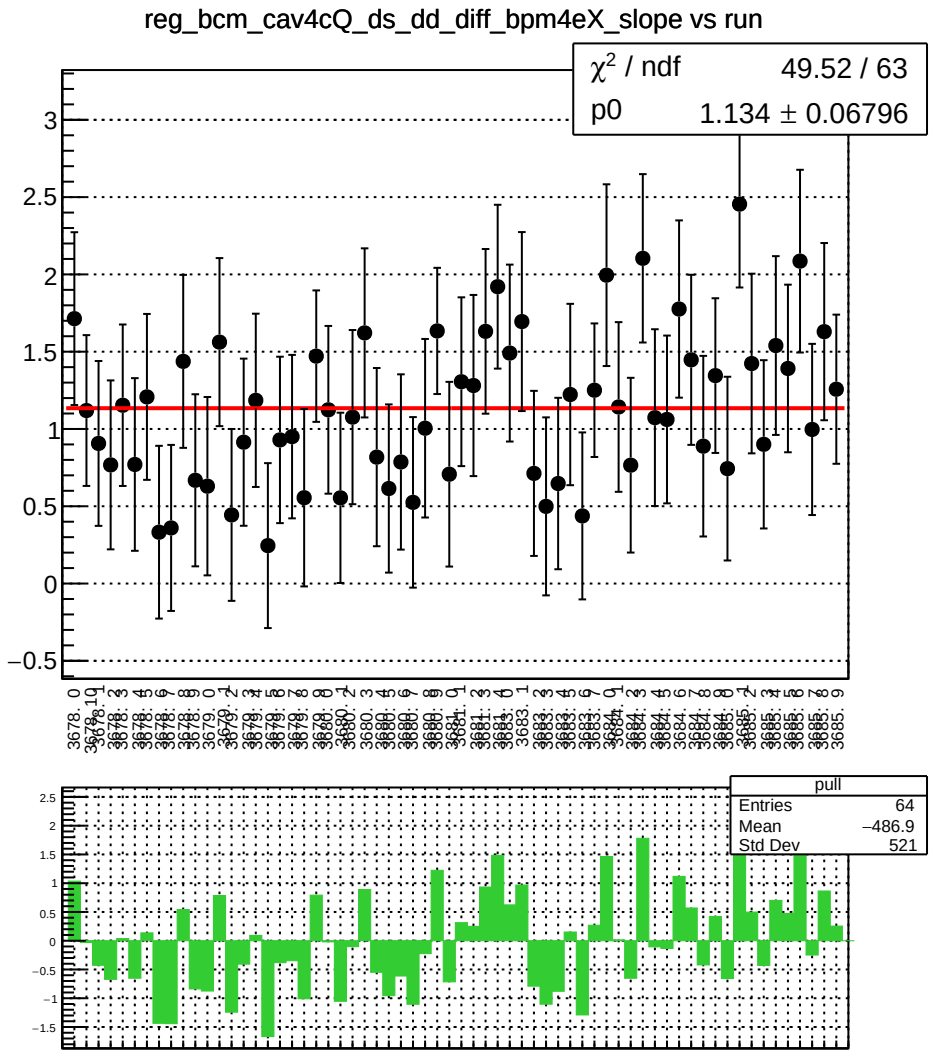

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 156.5 / 63
p0 −0.102 ± 0.006355
pull
Entries 64
Mean 185.9
Std Dev 154
pull1D
Entries 64
Mean 0.1346
Std Dev 1.558

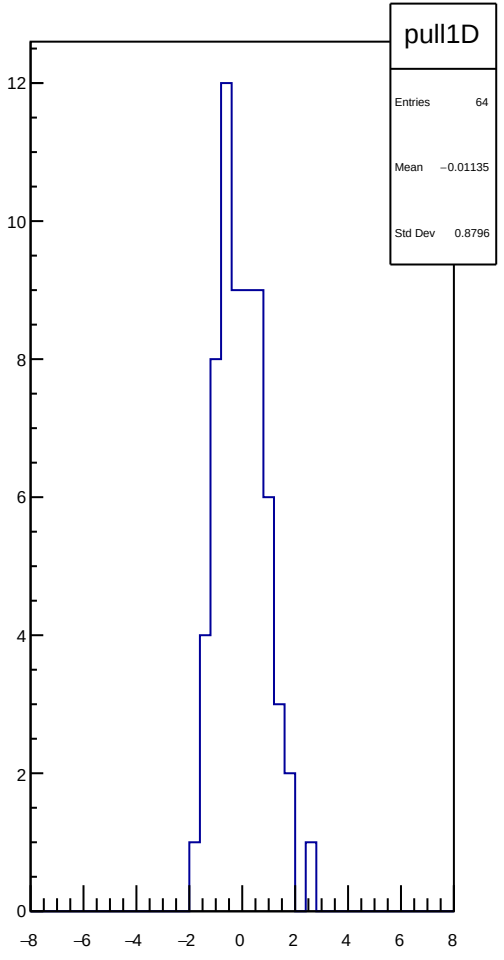

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 56.05 / 63
p0 −1.132 ± 0.3462
pull
Entries 64
Mean 31.63
Std Dev 37.53

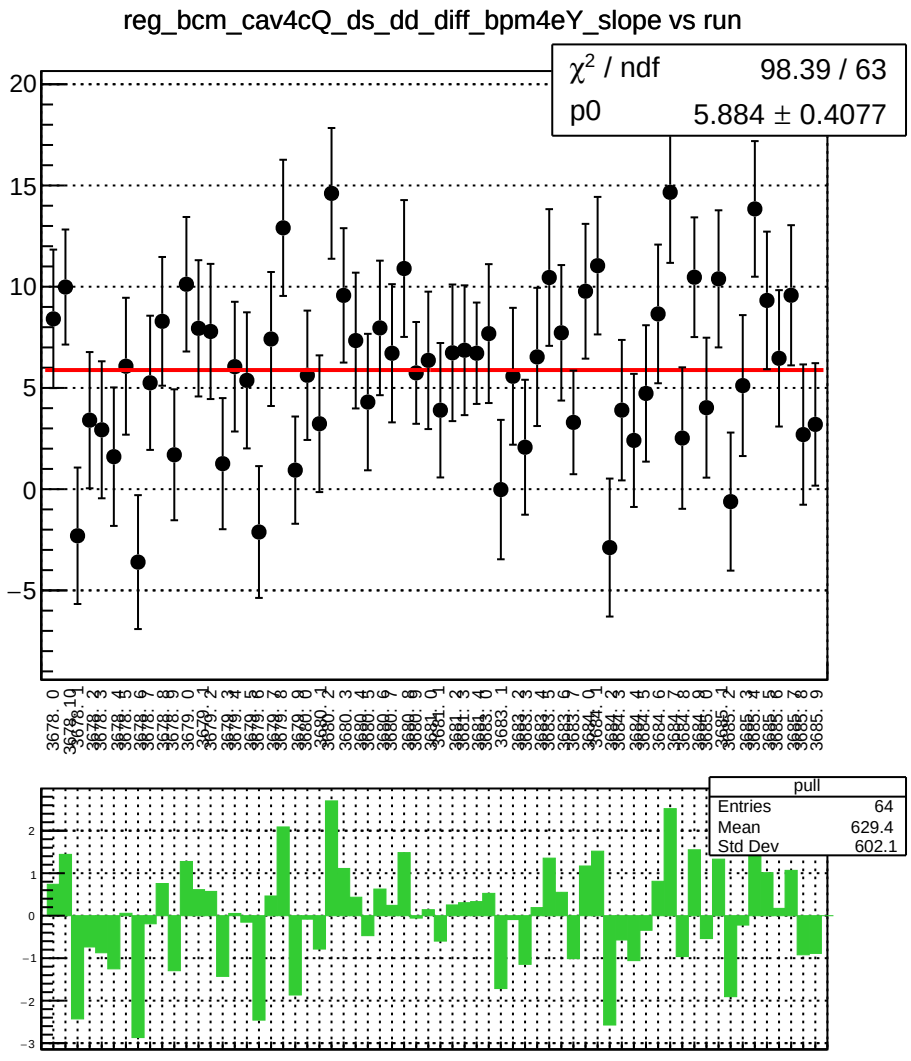

pull1D
Entries 64
Mean 0.01847
Std Dev 0.9357

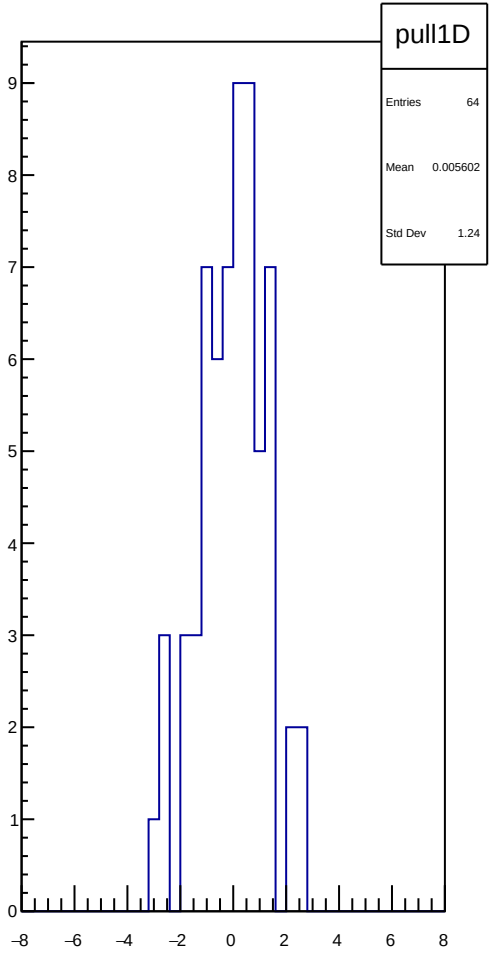

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 88.49 / 63
p0 −3.567 ± 0.2605
pull
Entries 64
Mean 1070
Std Dev 1043

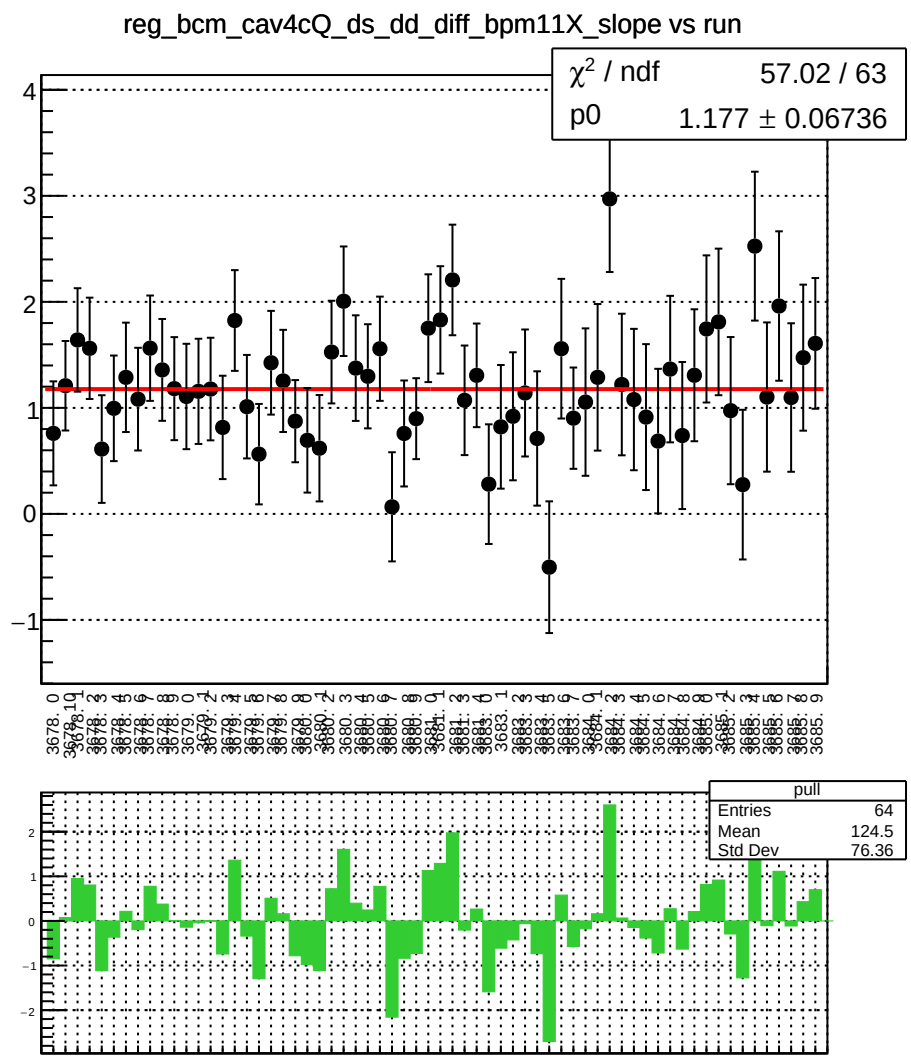

pull1D
Entries 64
Mean −0.00256
Std Dev 1.176

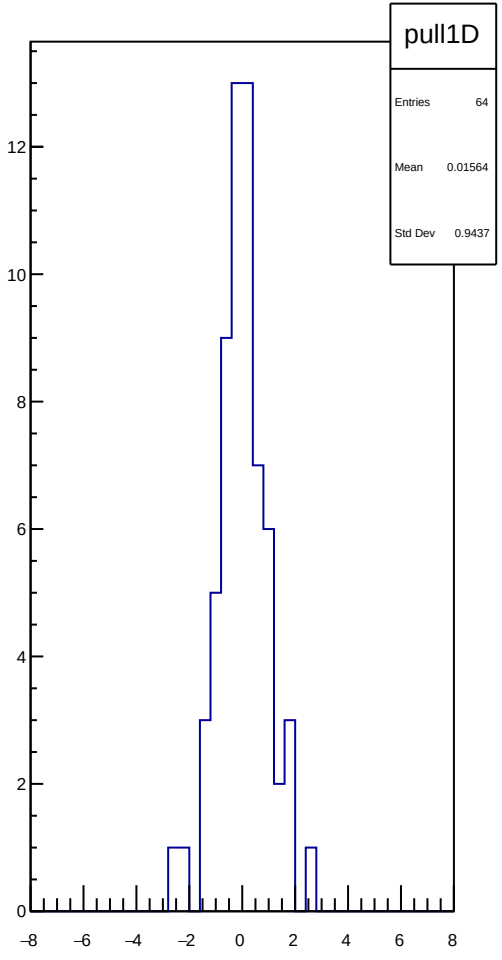

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.52 / 63
p0 1.134 ± 0.06796
pull
Entries 64
Mean −486.9
Std Dev 521

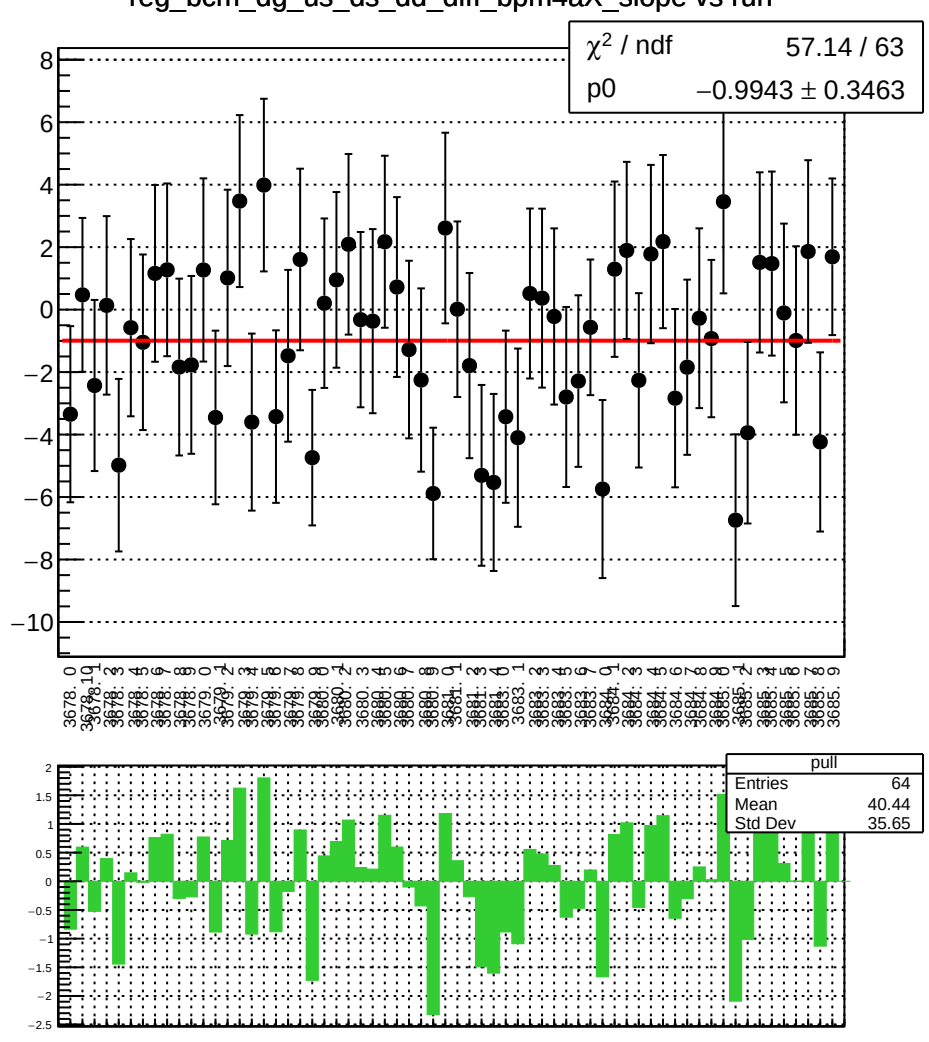

pull1D
Entries 64
Mean −0.01135
Std Dev 0.8796

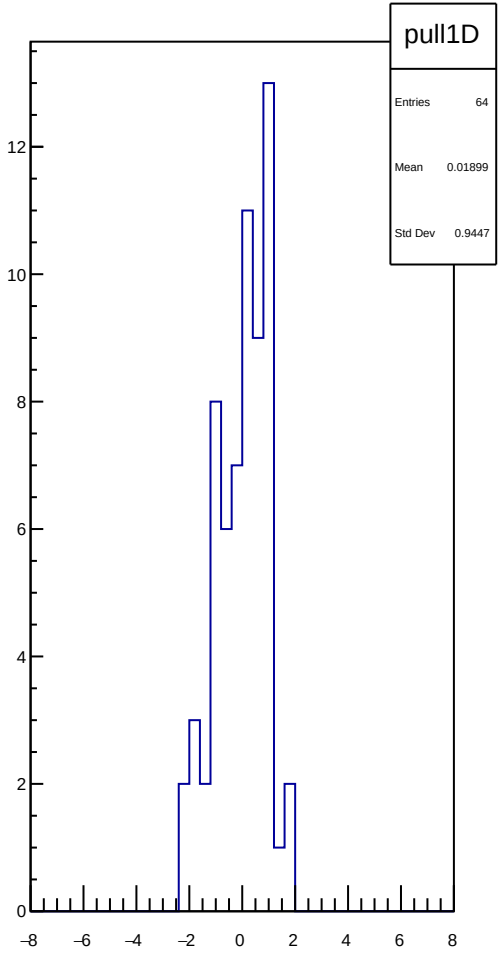

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 98.39 / 63
p0 5.884 ± 0.4077
pull
Entries 64
Mean 629.4
Std Dev 602.1

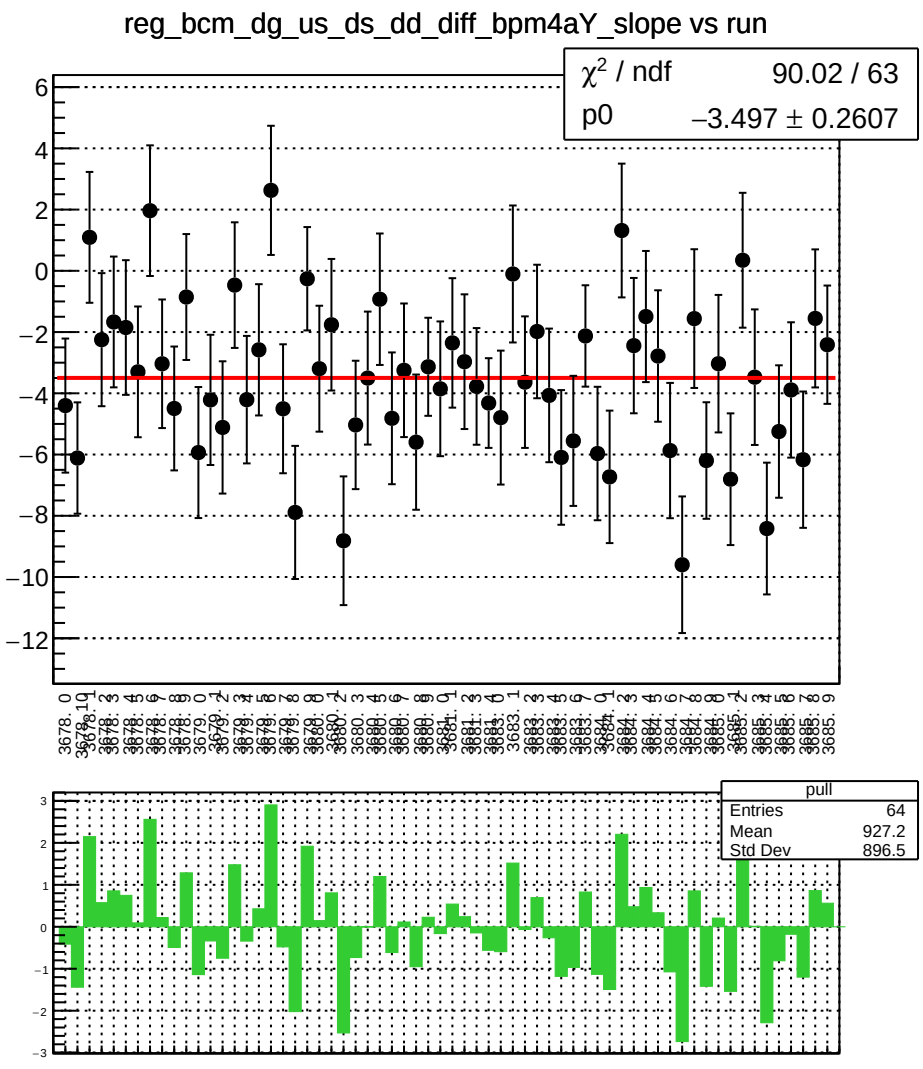

pull1D
Entries 64
Mean 0.005602
Std Dev 1.24

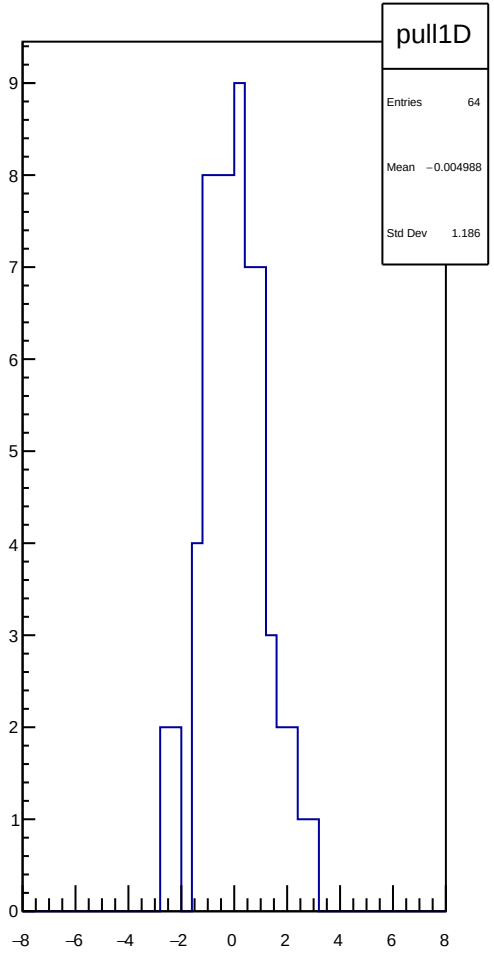

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 57.02 / 63
p0 1.177 ± 0.06736
pull
Entries 64
Mean 124.5
Std Dev 76.36

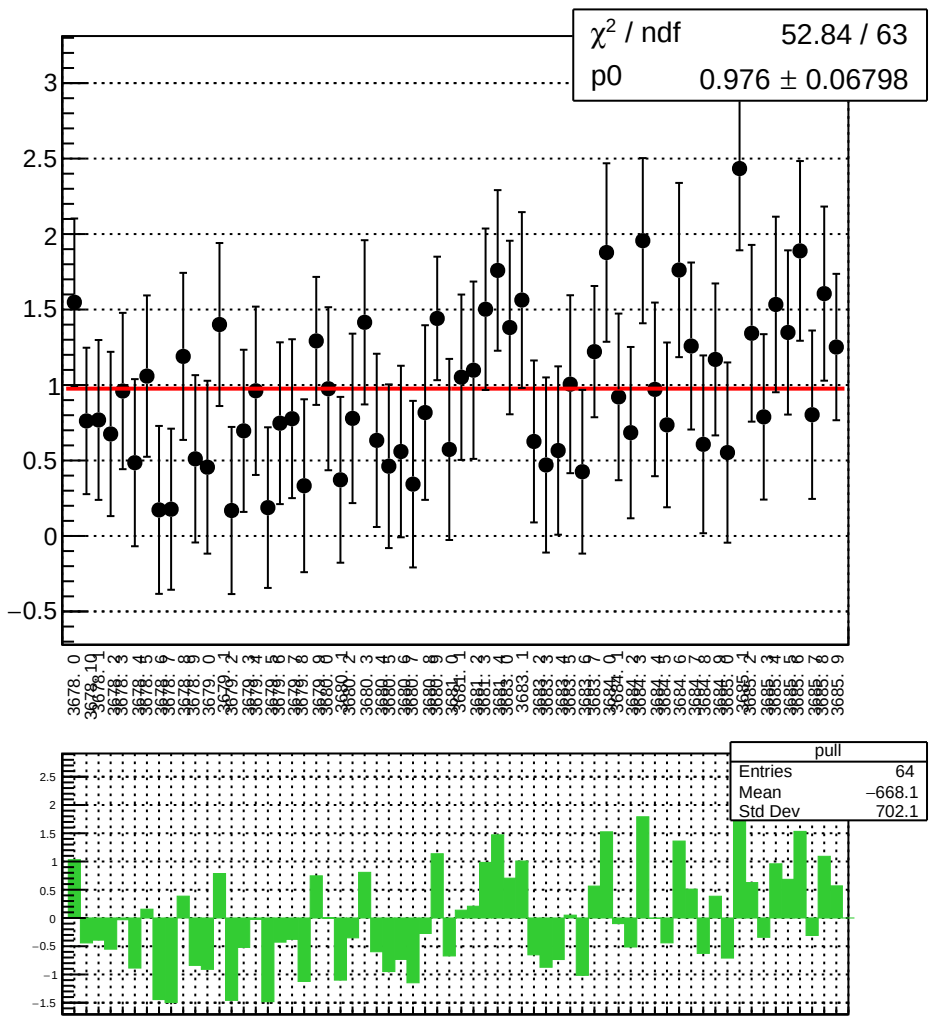

pull1D
Entries 64
Mean 0.01564
Std Dev 0.9437

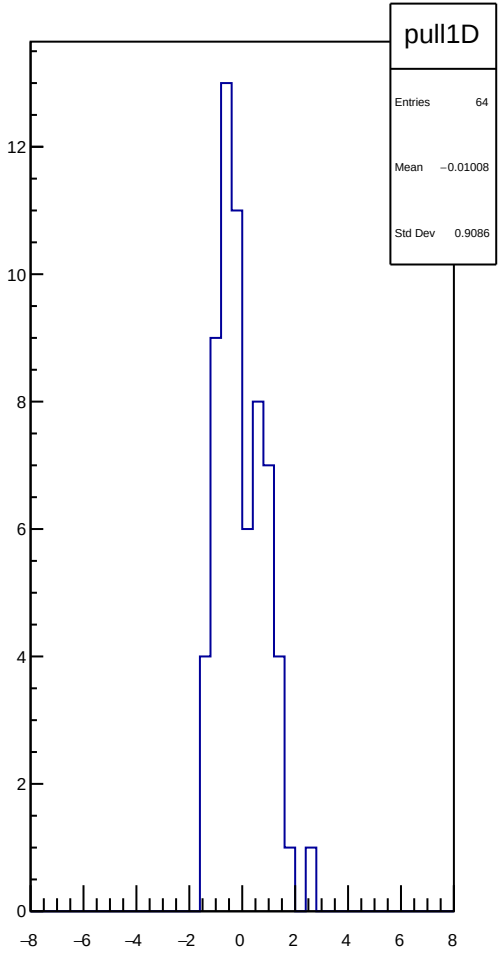

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 57.14 / 63
p0 −0.9943 ± 0.3463
pull
Entries 64
Mean 40.44
Std Dev 35.65

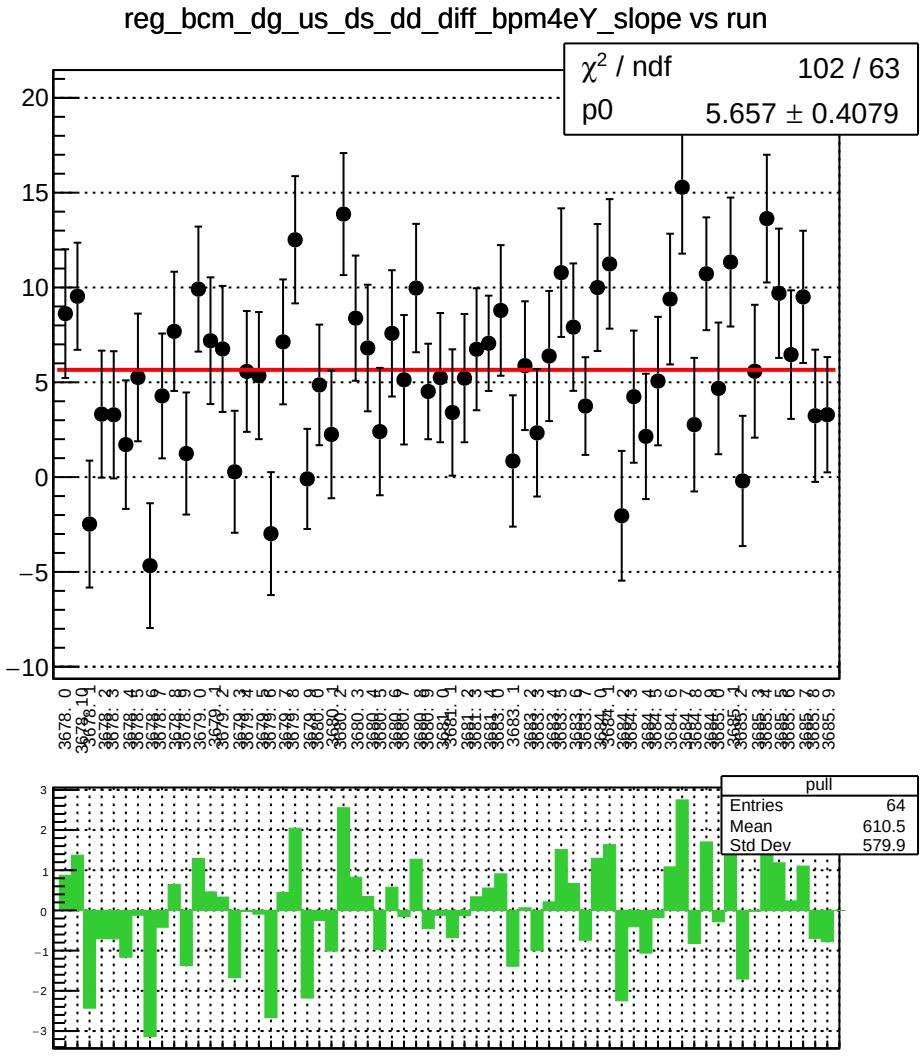

pull1D
Entries 64
Mean 0.01899
Std Dev 0.9447

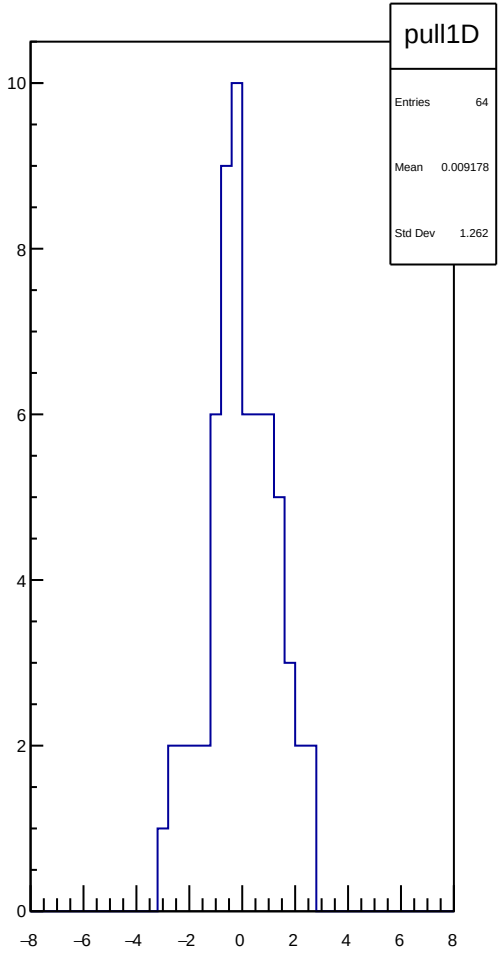

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 90.02 / 63
p0 −3.497 ± 0.2607
pull
Entries 64
Mean 927.2
Std Dev 896.5

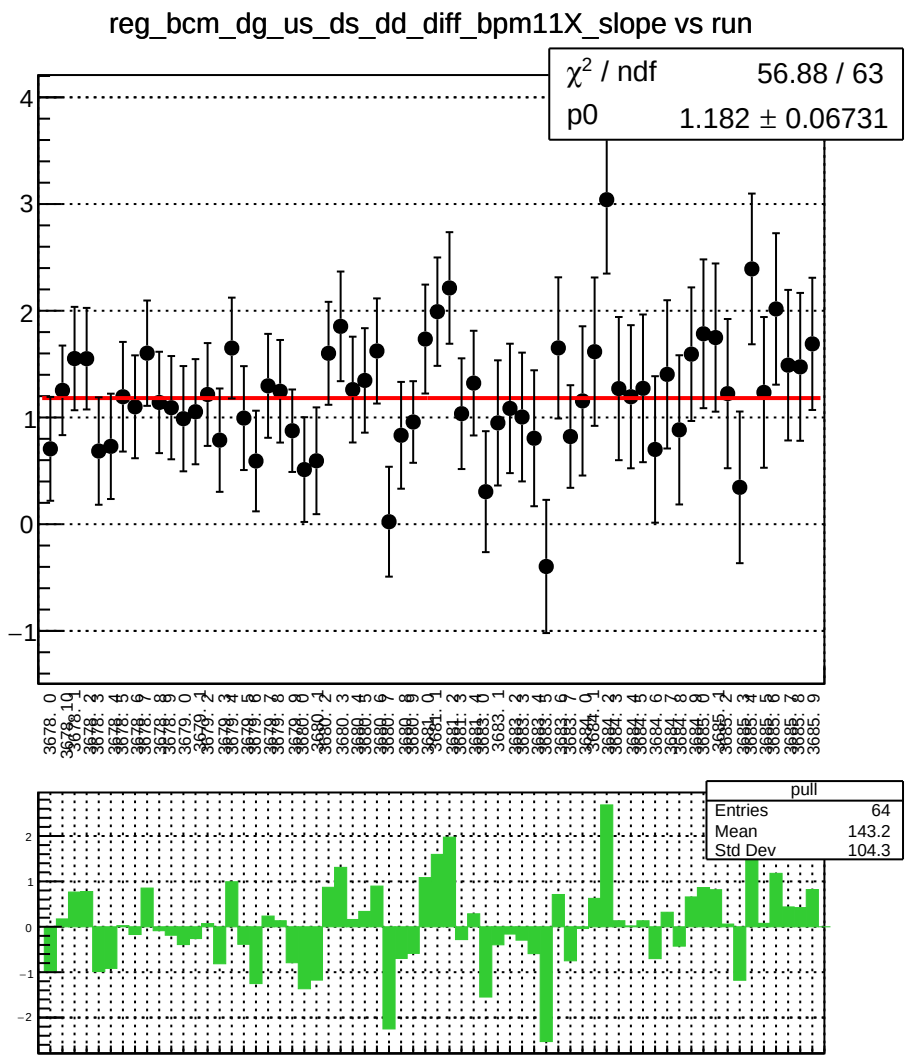

pull1D
Entries 64
Mean −0.004988
Std Dev 1.186

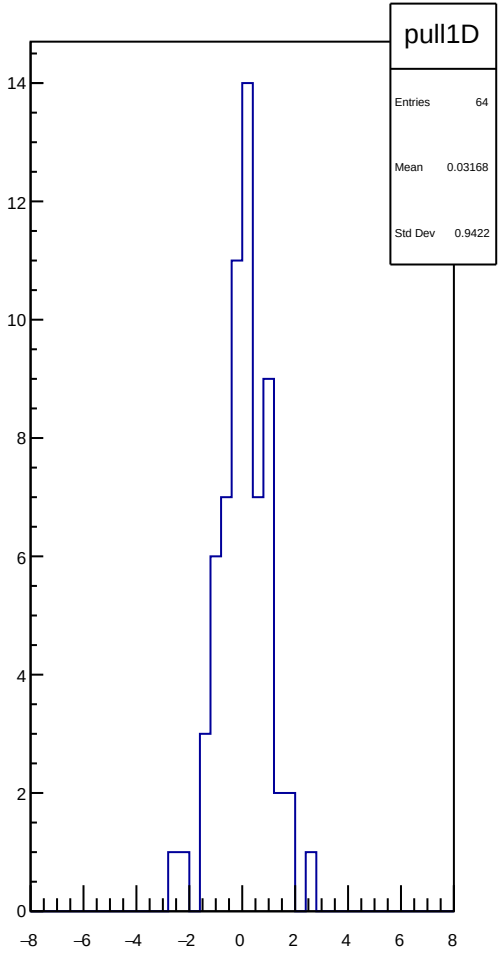

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.84 / 63
p0 0.976 ± 0.06798
pull
Entries 64
Mean −668.1
Std Dev 702.1

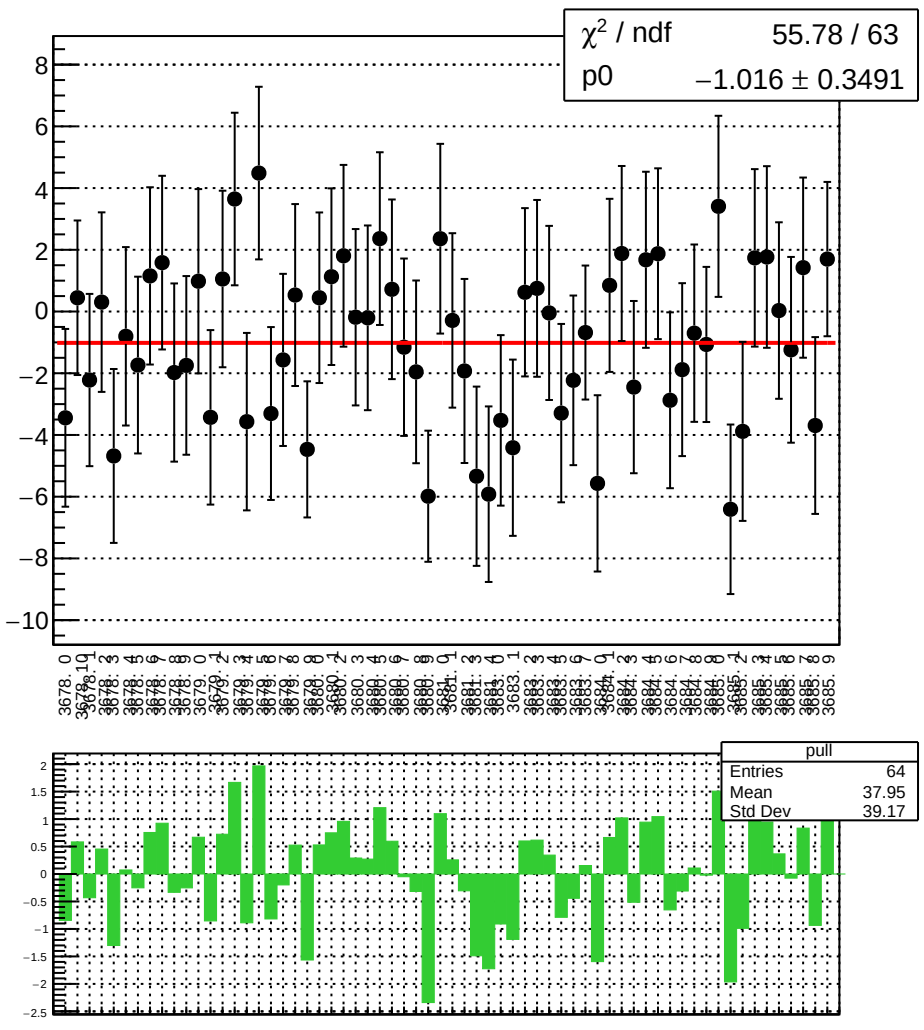

pull1D
Entries 64
Mean −0.01008
Std Dev 0.9086

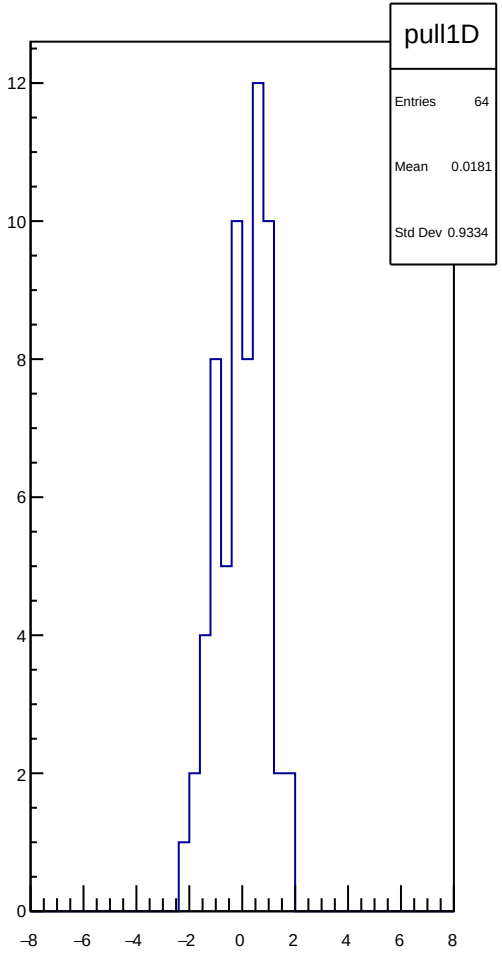

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 102 / 63
p0 5.657 ± 0.4079
pull
Entries 64
Mean 610.5
Std Dev 579.9

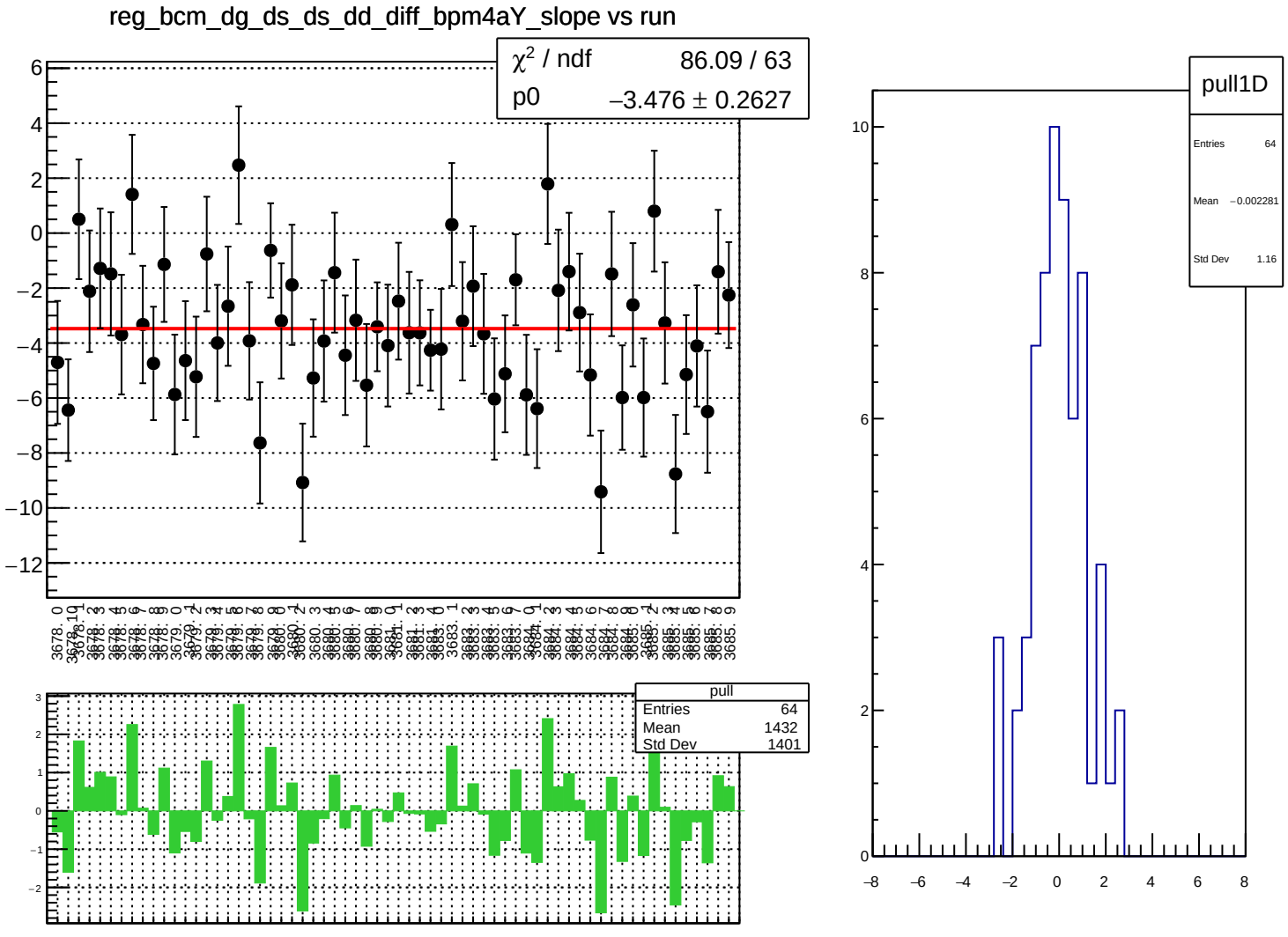

pull1D
Entries 64
Mean 0.009178
Std Dev 1.262

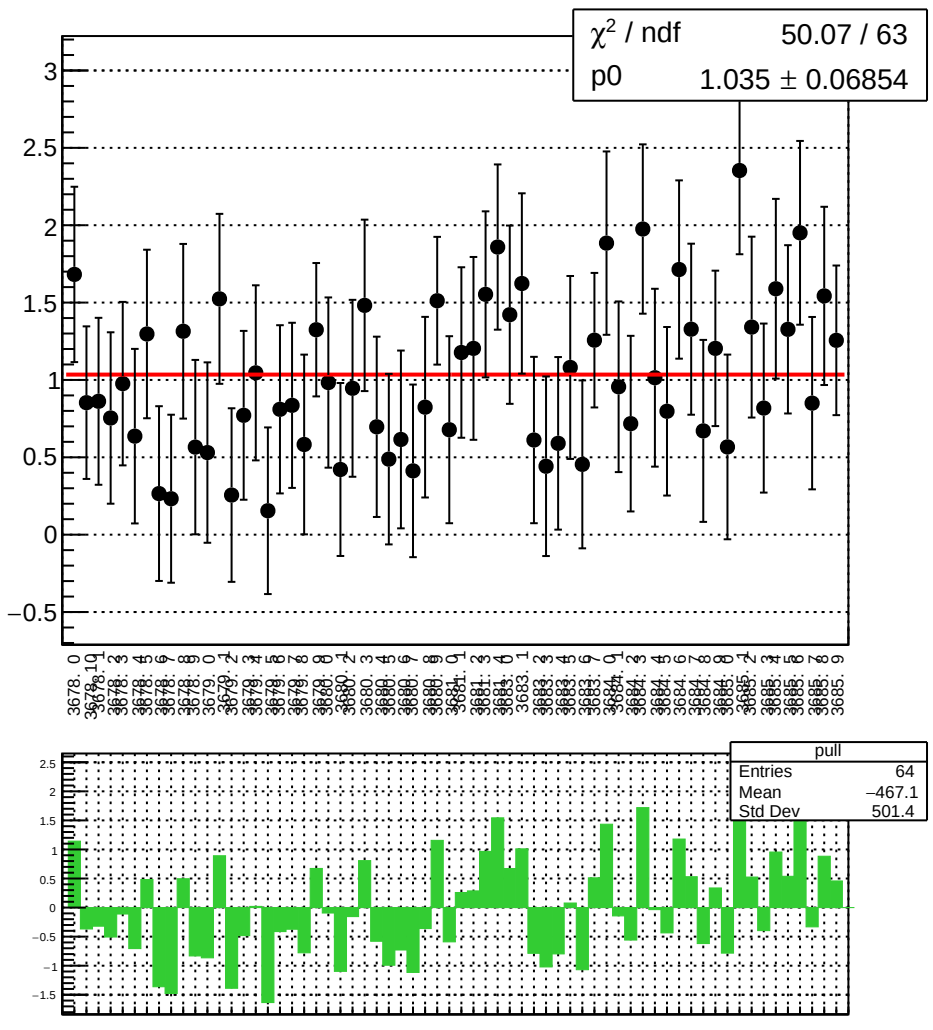

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 56.88 / 63
p0 1.182 ± 0.06731
pull
Entries 64
Mean 143.2
Std Dev 104.3

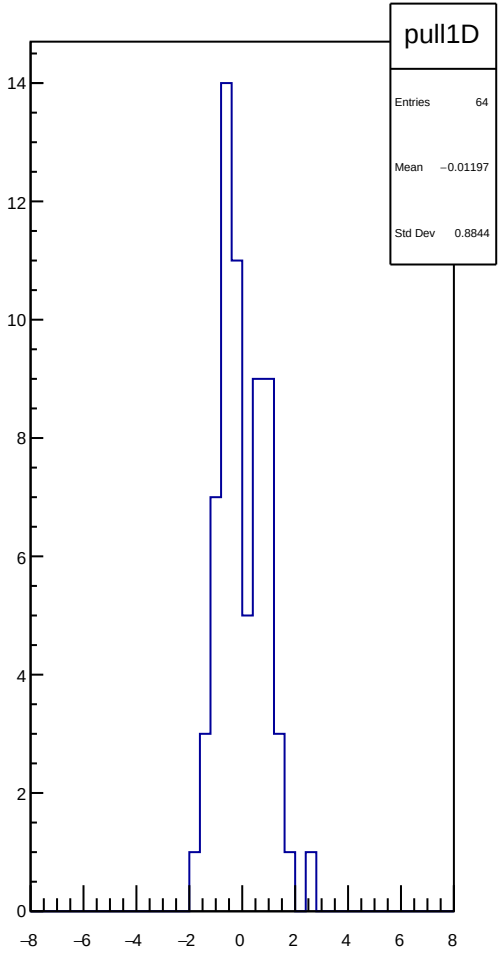

pull1D
Entries 64
Mean 0.03168
Std Dev 0.9422

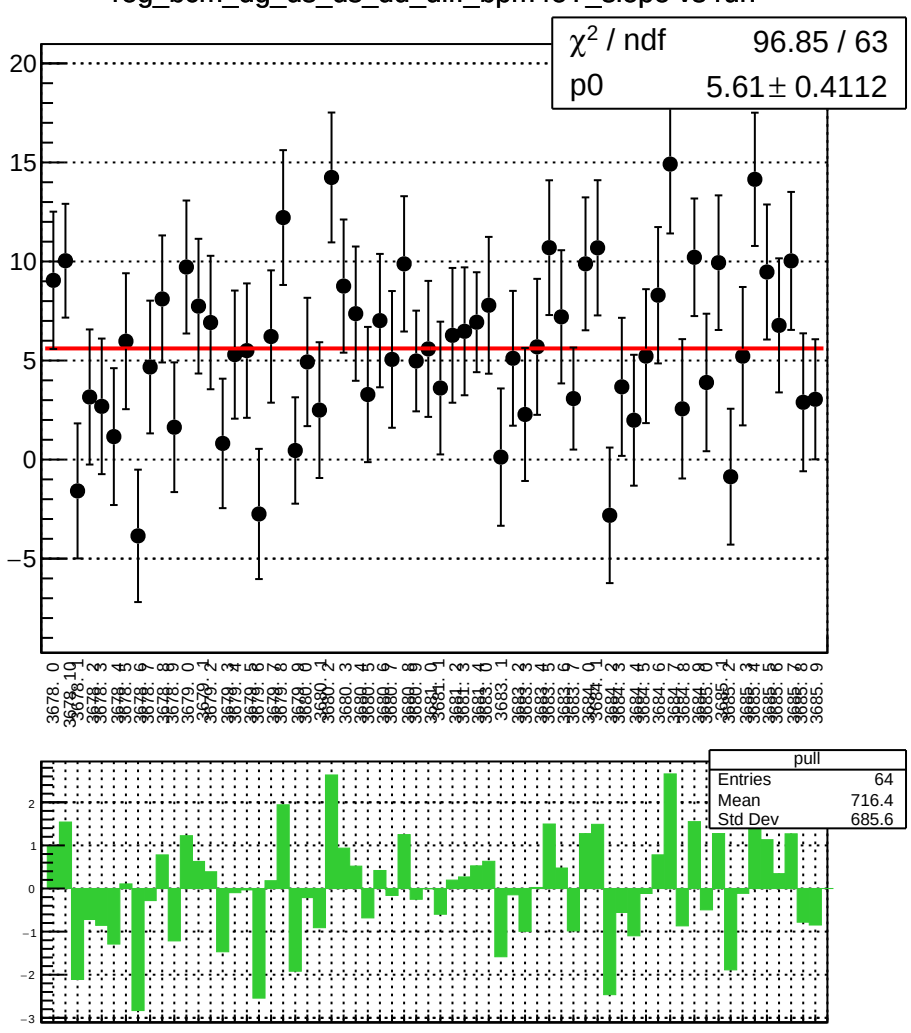

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 55.78 / 63
p0 −1.016 ± 0.3491
pull
Entries 64
Mean 37.95
Std Dev 39.17

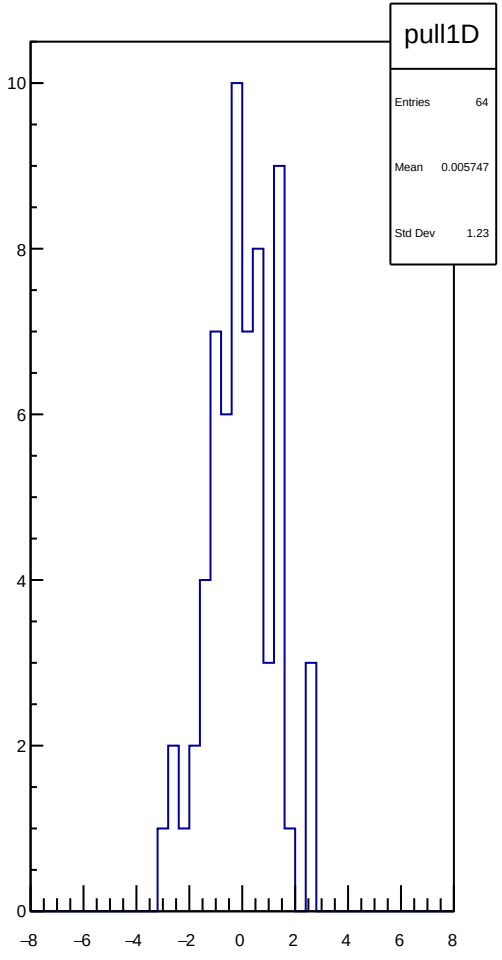

pull1D
Entries 64
Mean 0.0181
Std Dev 0.9334

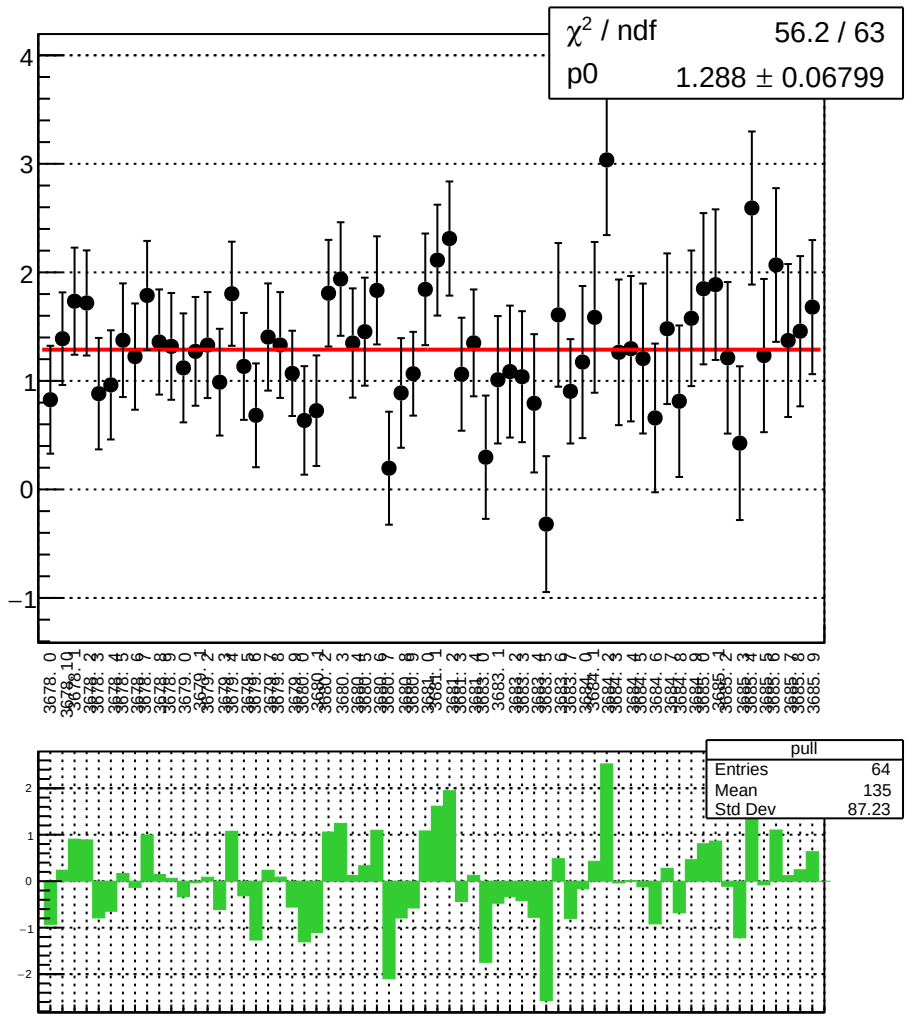

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.09 / 63
p0 −3.476 ± 0.2627
pull
Entries 64
Mean 1432
Std Dev 1401
pull1D
Entries 64
Mean −0.002281
Std Dev 1.16

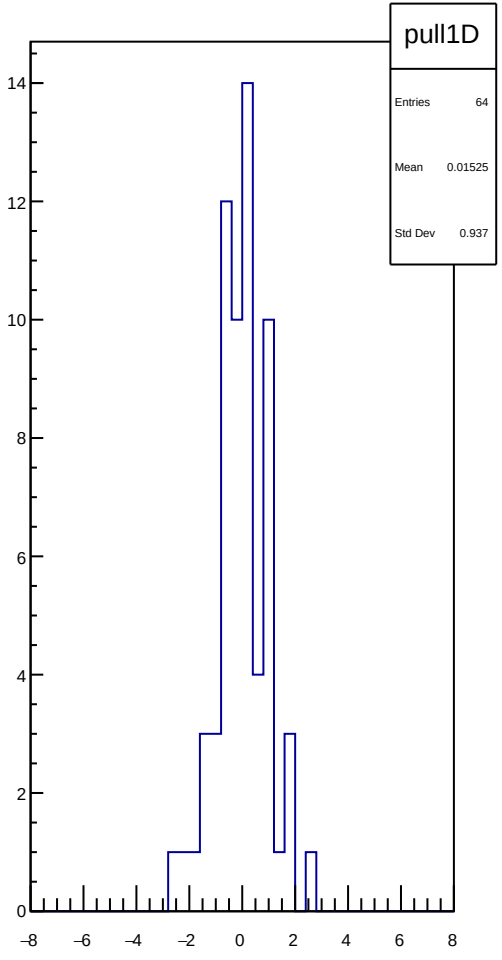

reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.07 / 63
p0 1.035 ± 0.06854
pull
Entries 64
Mean −467.1
Std Dev 501.4

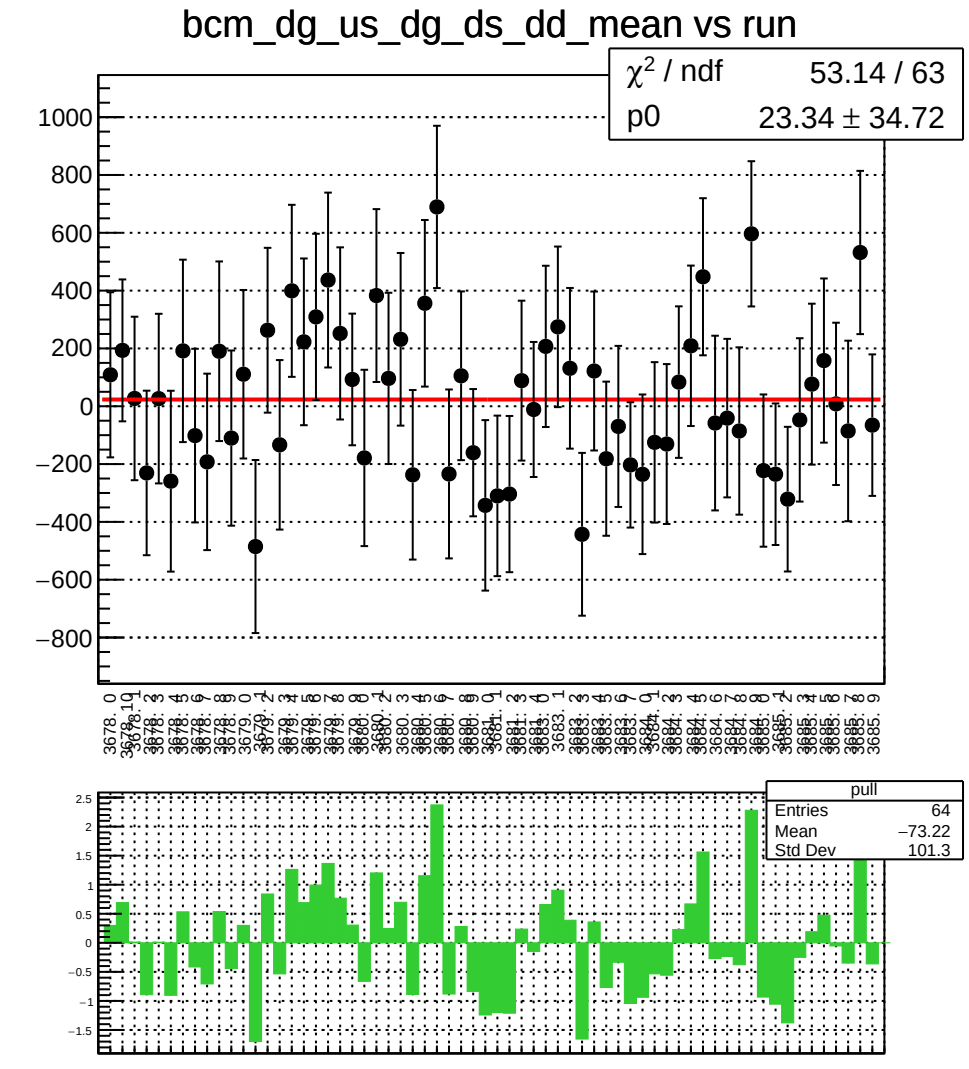

pull1D
Entries 64
Mean −0.01197
Std Dev 0.8844

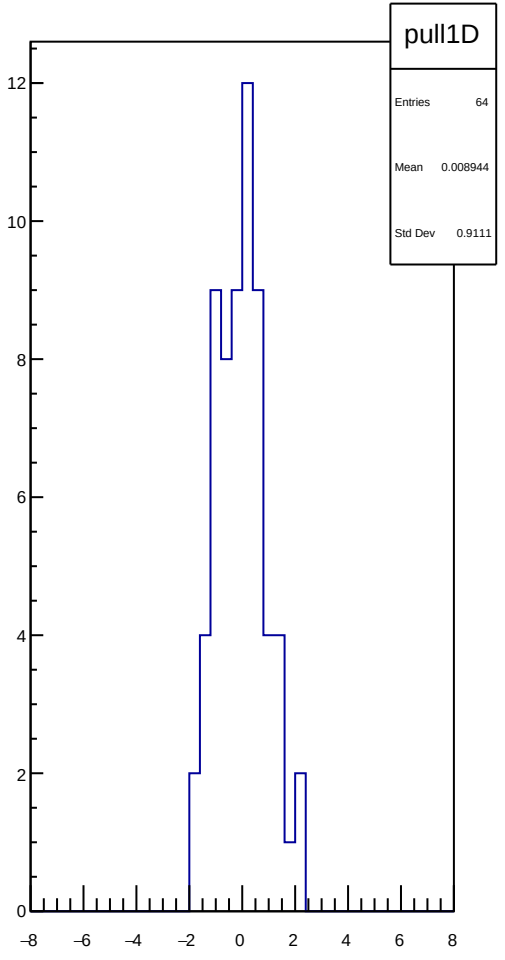

reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 96.85 / 63
p0 5.61 ± 0.4112
pull
Entries 64
Mean 716.4
Std Dev 685.6

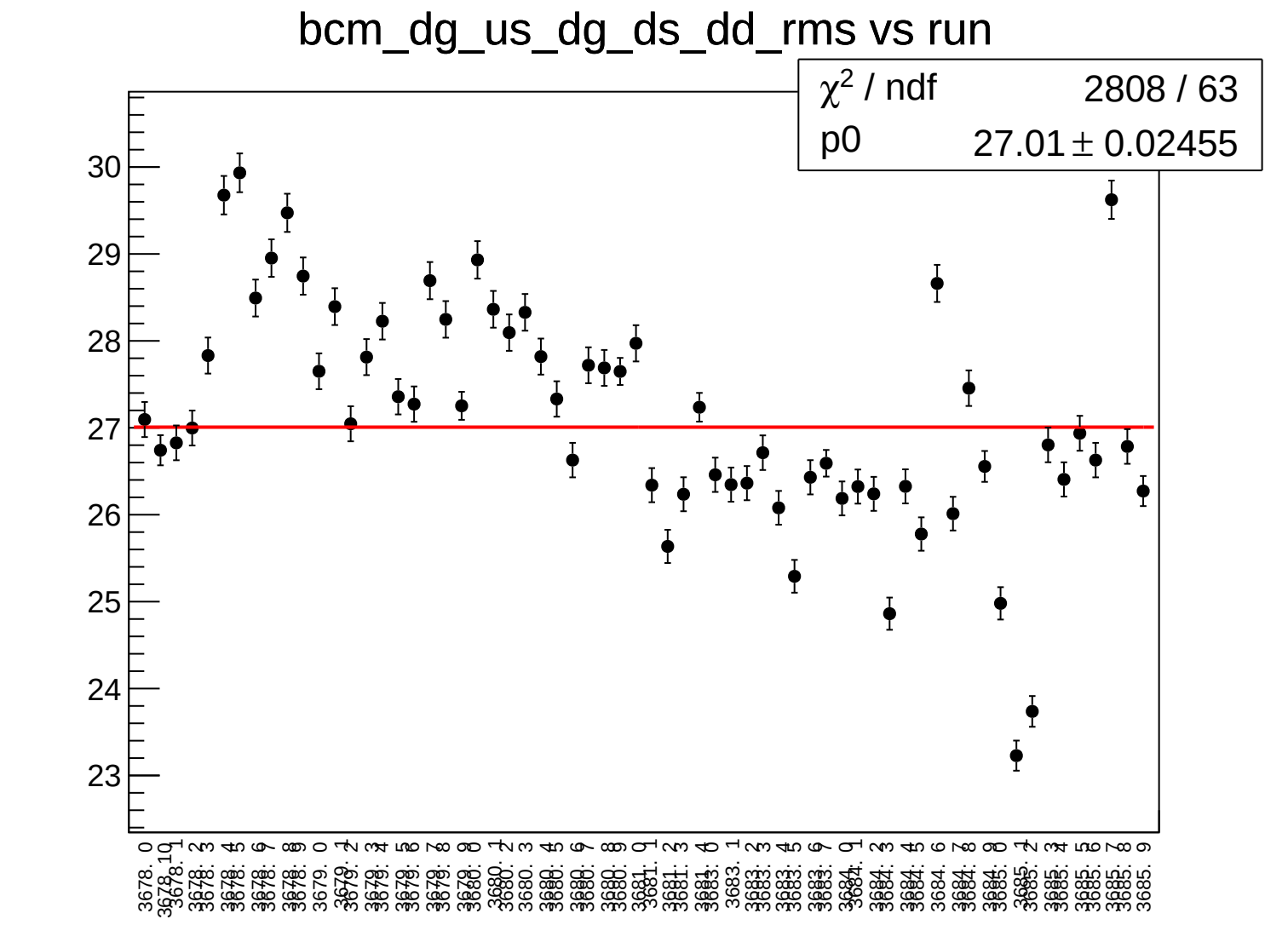

pull1D
Entries 64
Mean 0.005747
Std Dev 1.23


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 56.2 / 63
p0 1.288 ± 0.06799
pull
Entries 64
Mean 135
Std Dev 87.23


pull1D
Entries 64
Mean 0.01525
Std Dev 0.937


bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 53.14 / 63
p0 23.34 ± 34.72
pull
Entries 64
Mean −73.22
Std Dev 101.3


pull1D
Entries 64
Mean 0.008944
Std Dev 0.9111


bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2808 / 63
p0 27.01 ± 0.02455
30
29
28
27
26
25
24
23