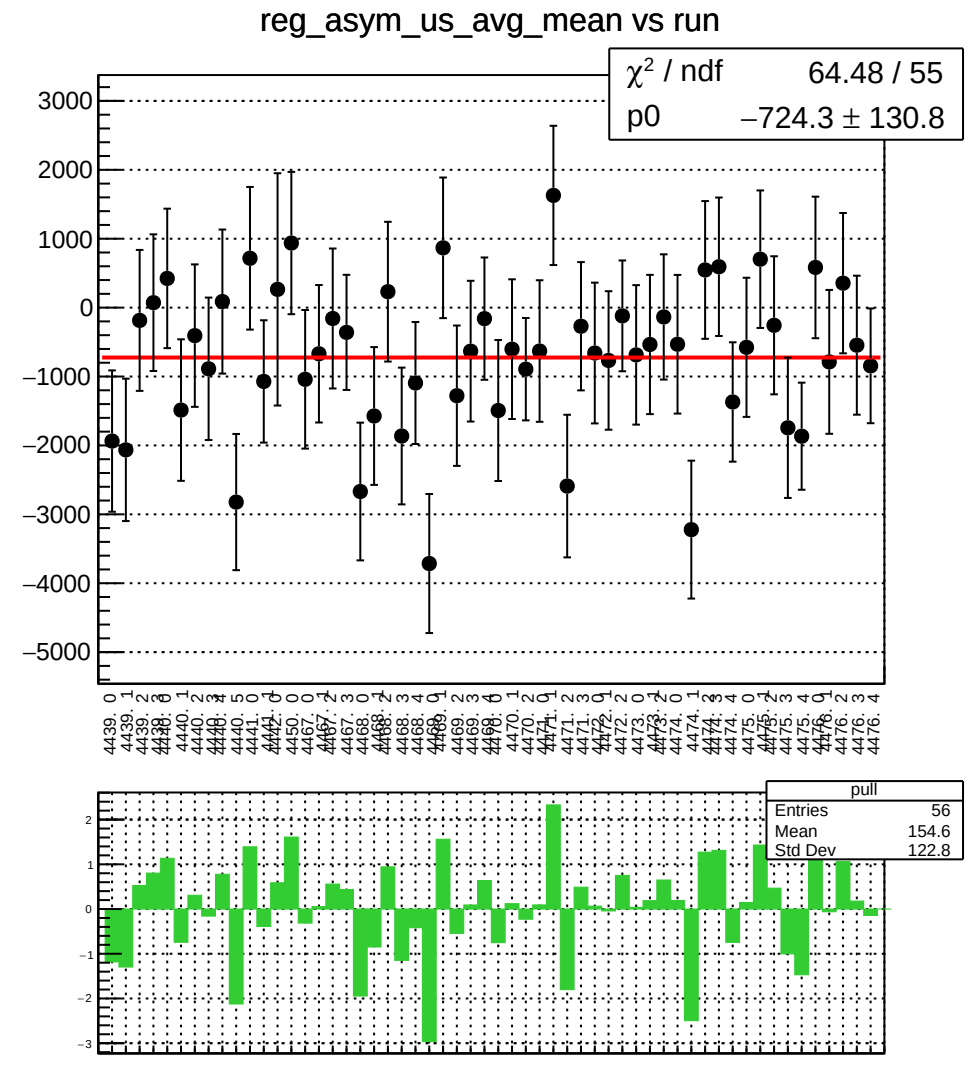
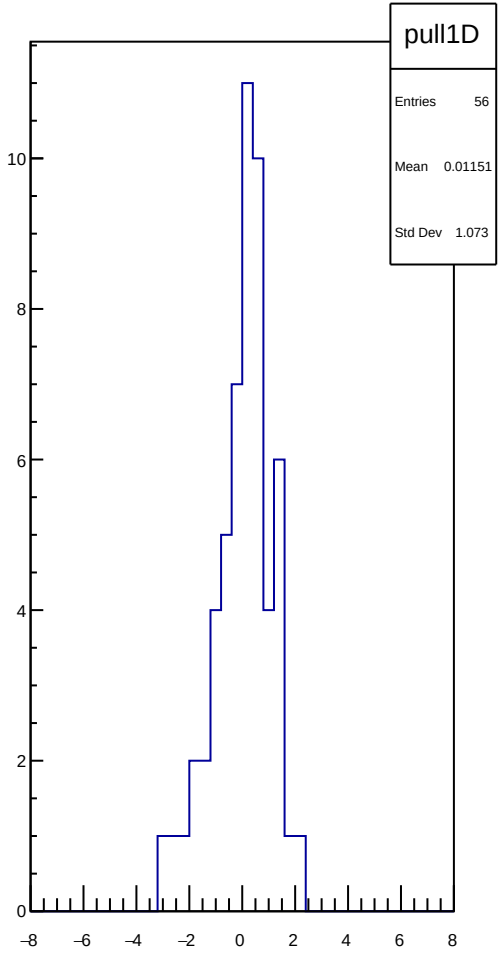
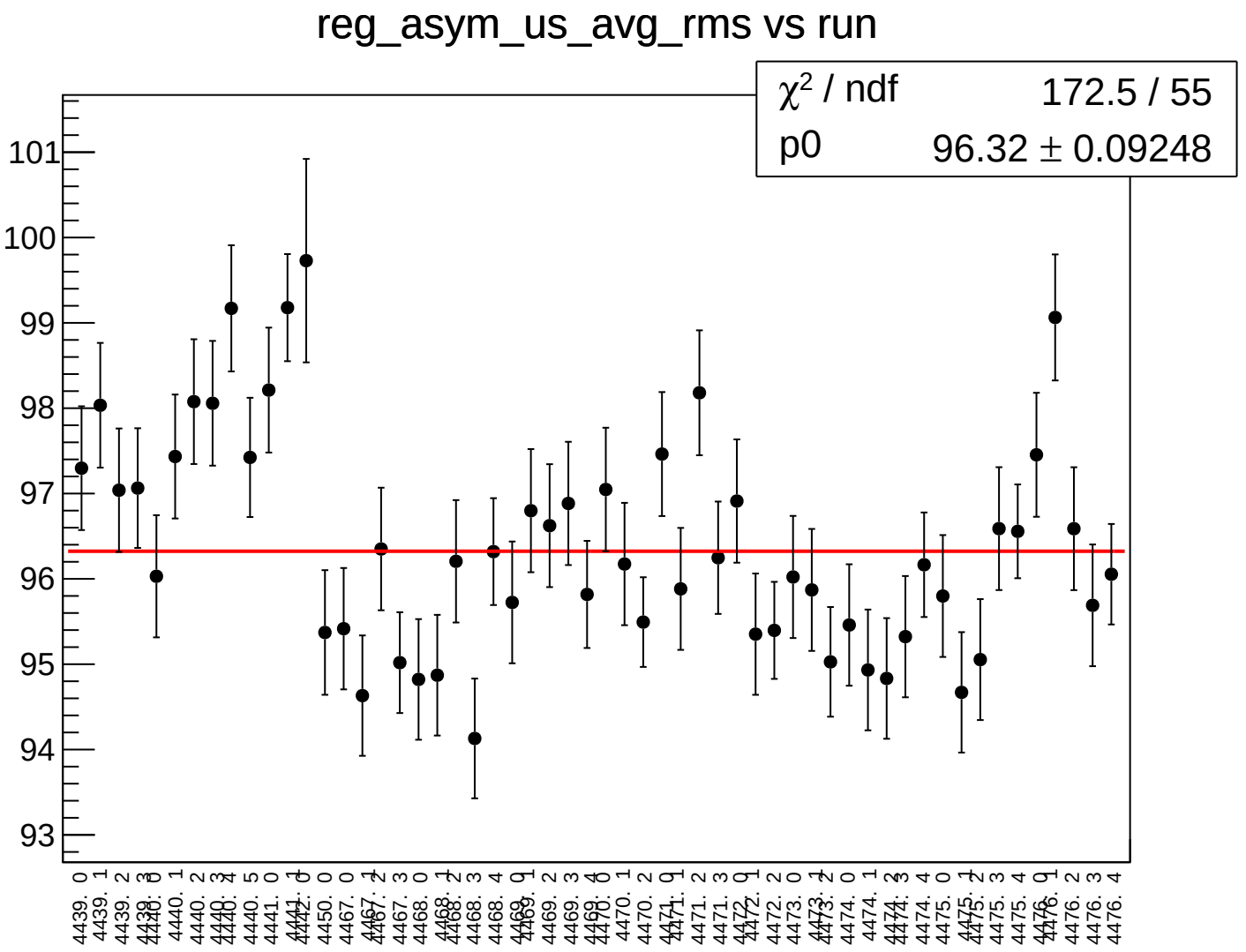
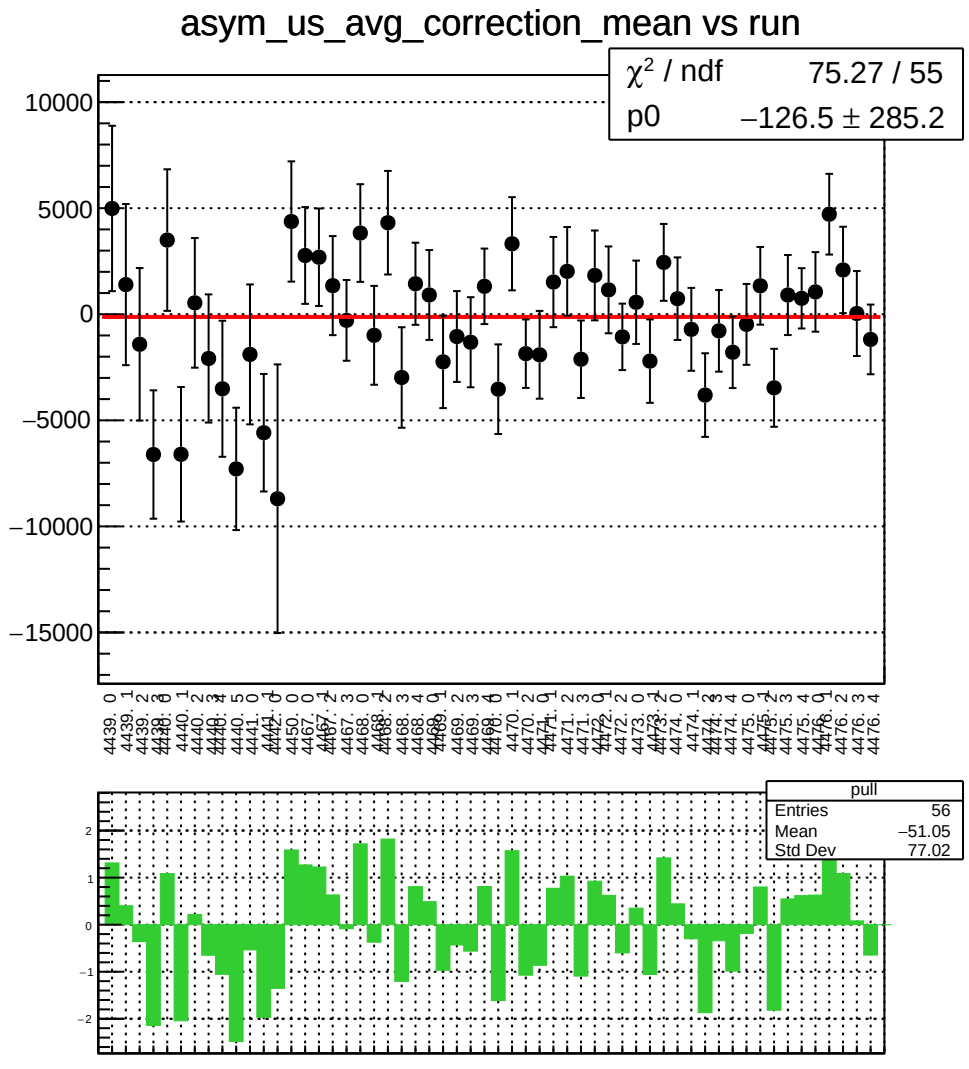
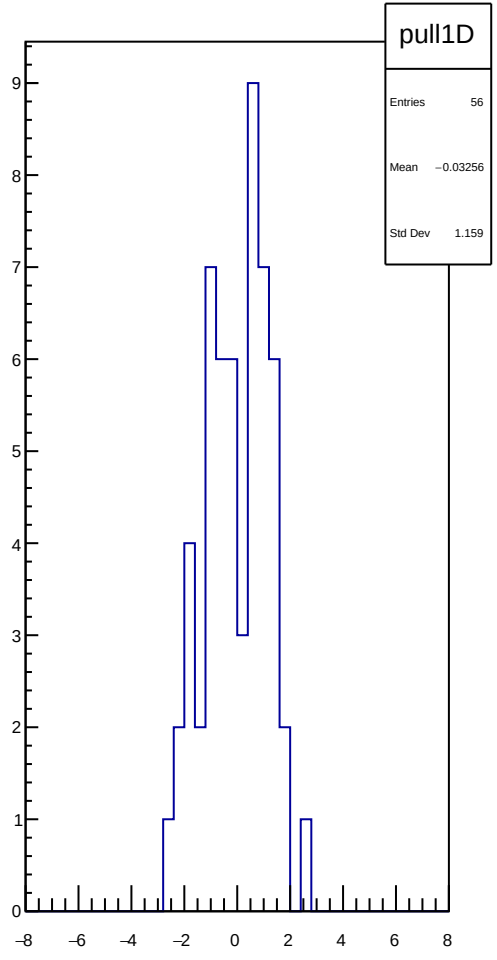
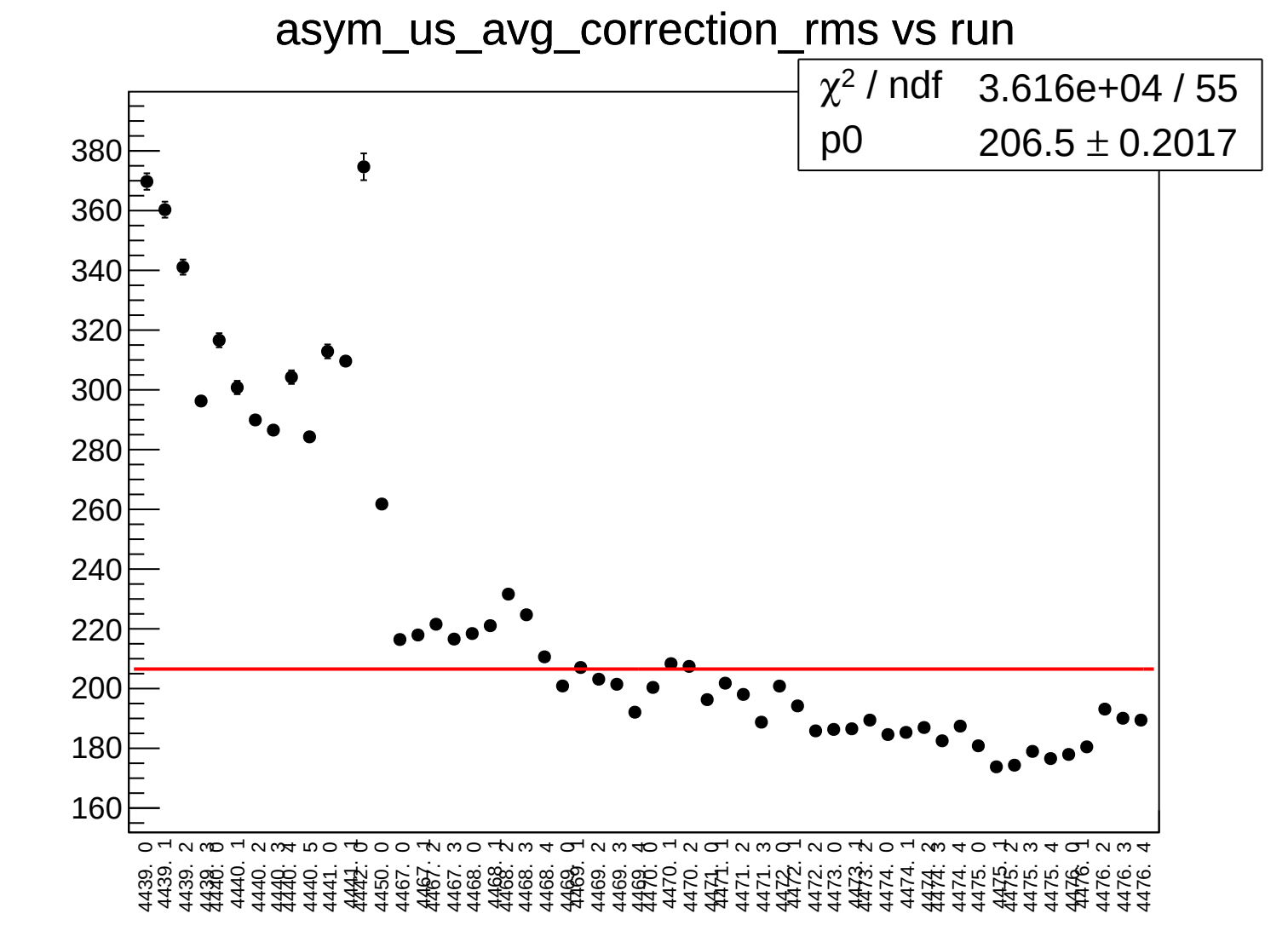

reg_asym_us_avg_mean vs run
χ² / ndf 64.48 / 55
p0 −724.3 ± 130.8
pull
Entries 56
Mean 154.6
Std Dev 122.8


pull1D
Entries 56
Mean 0.01151
Std Dev 1.073


reg_asym_us_avg_rms vs run
χ^2 / ndf 172.5 / 55
p0 96.32 ± 0.09248
101
100
99
98
97
96
95
94
93


asym_us_avg_correction_mean vs run
χ² / ndf 75.27 / 55
p0 −126.5 ± 285.2
pull
Entries 56
Mean −51.05
Std Dev 77.02


pull1D
Entries 56
Mean −0.03256
Std Dev 1.159


asym_us_avg_correction_rms vs run
χ² / ndf 3.616e+04 / 55
p0 206.5 ± 0.2017
380
360
340
320
300
280
260
240
220
200
180
160
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
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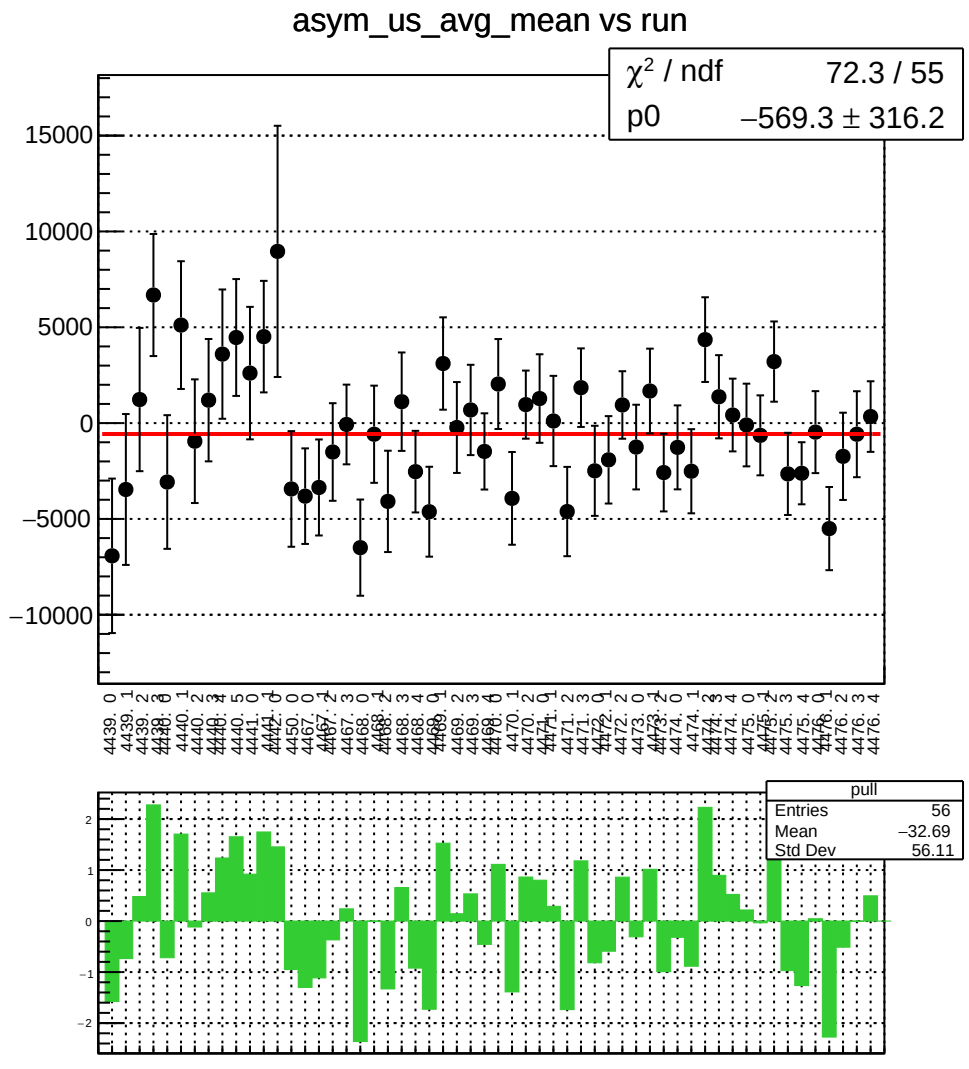
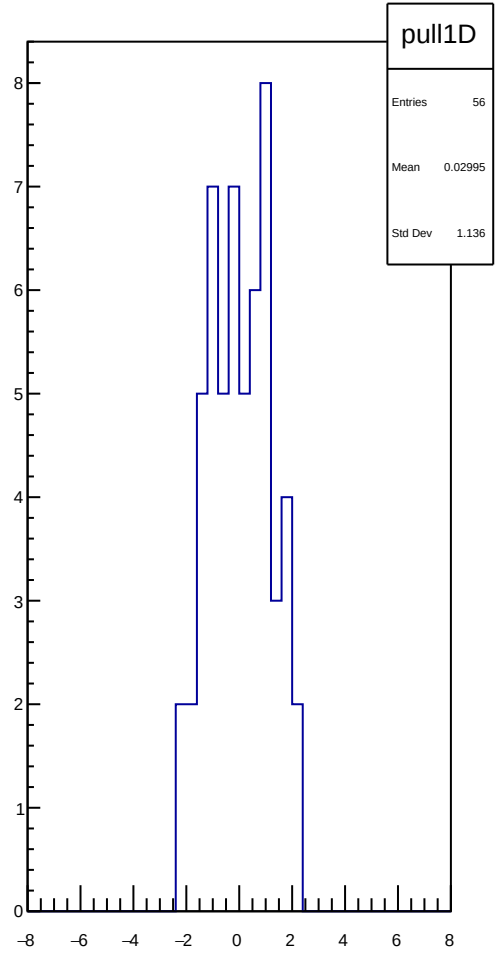
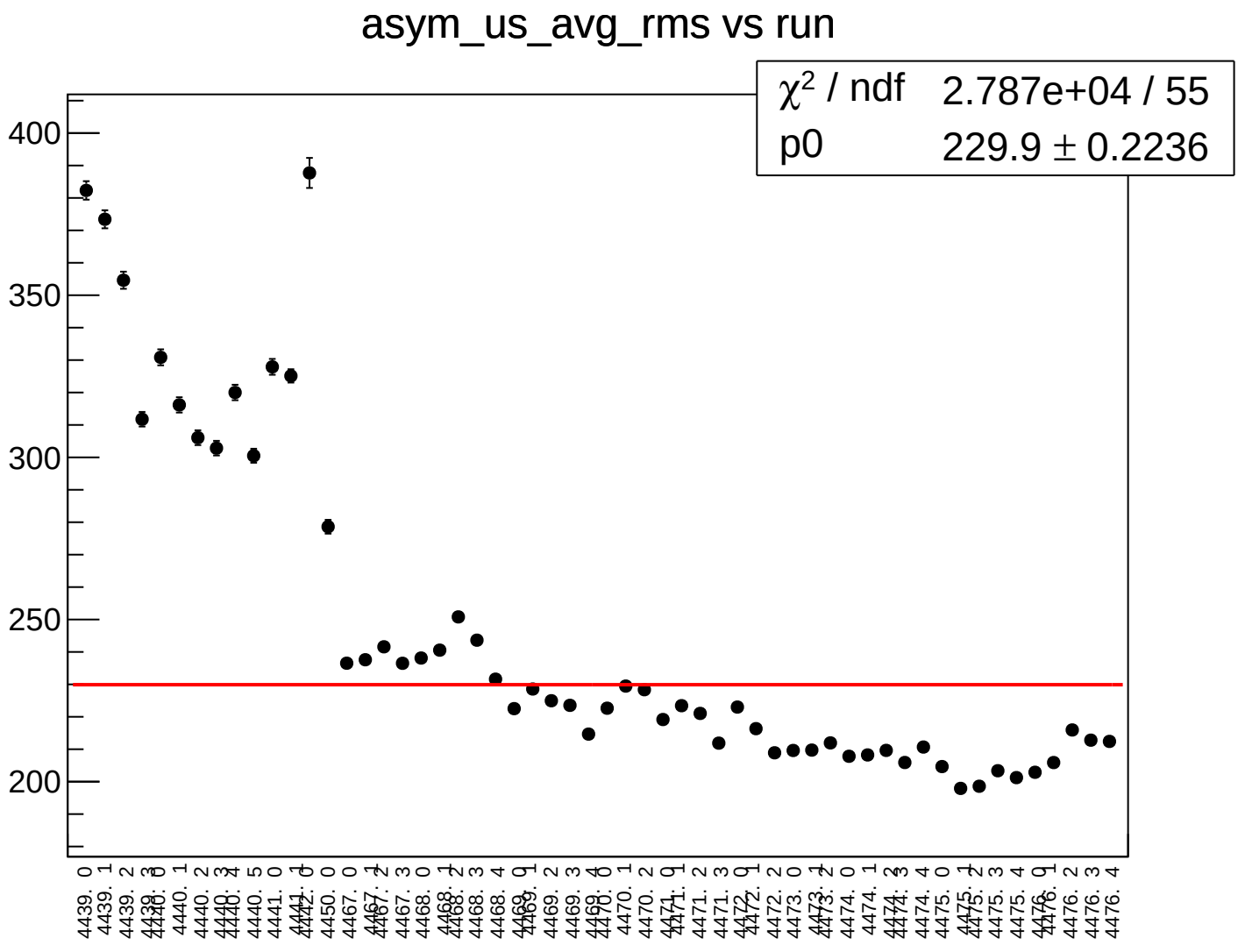
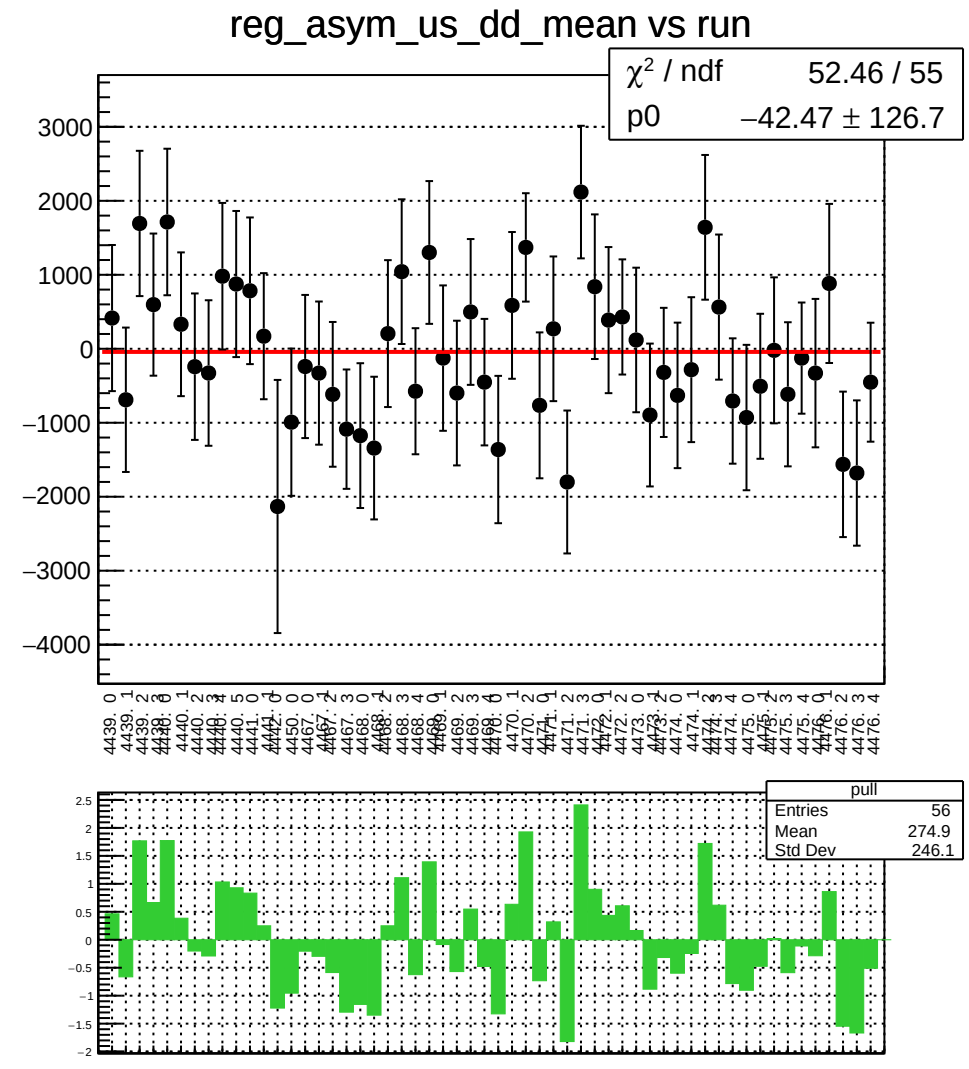
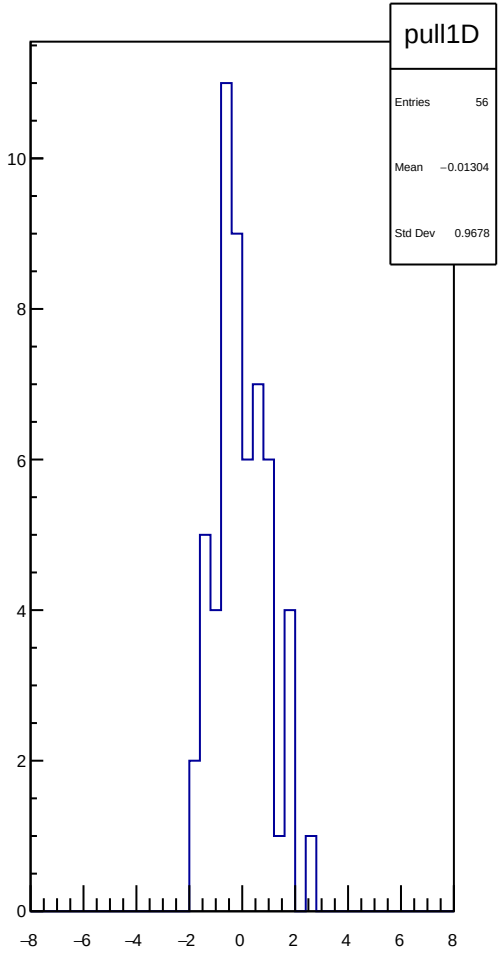
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

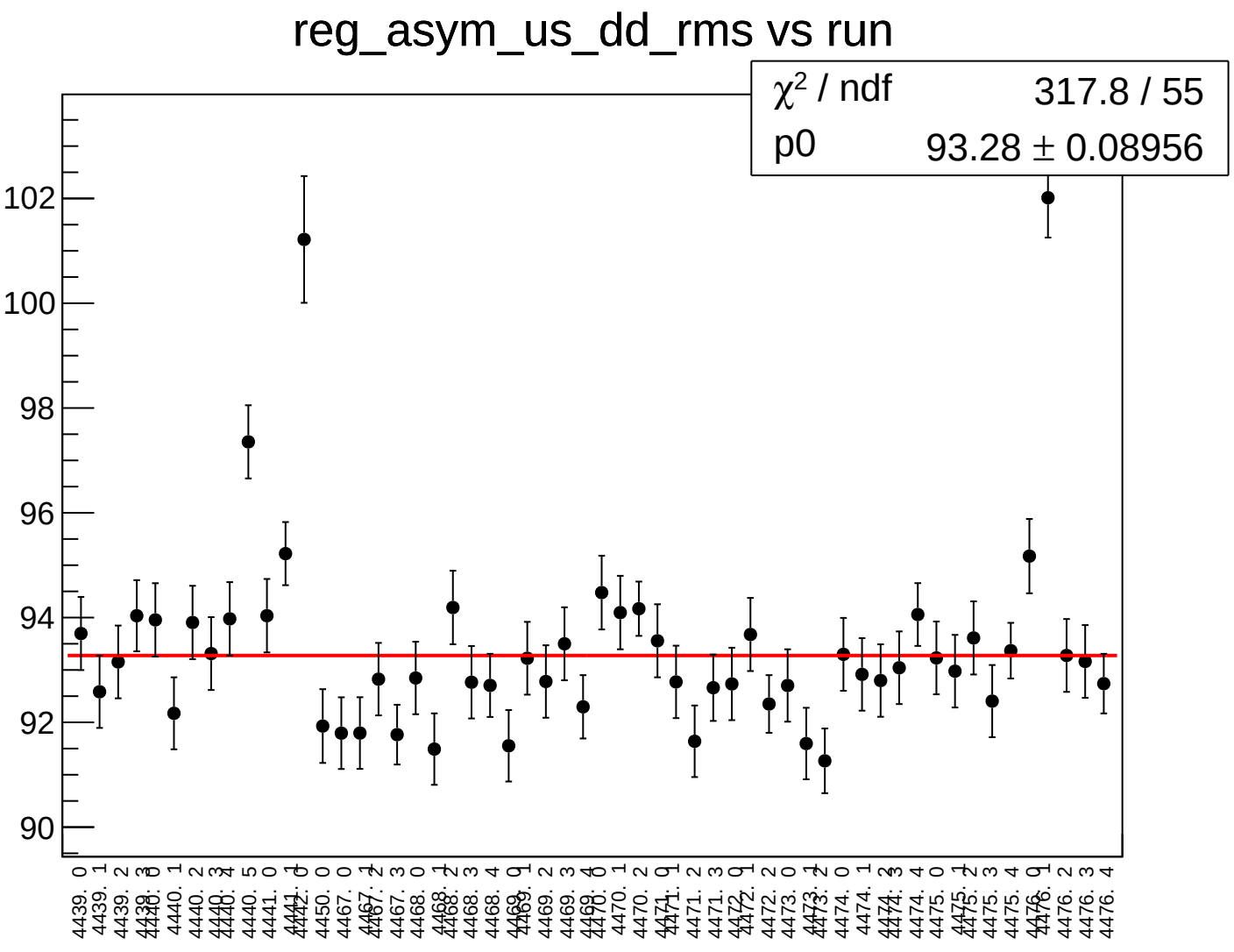

asym_us_avg_mean vs run
χ² / ndf 72.3 / 55
p0 −569.3 ± 316.2
15000
10000
5000
0
−5000
−10000
pull
Entries 56
Mean −32.69
Std Dev 56.11
2
1
0
−1
−2

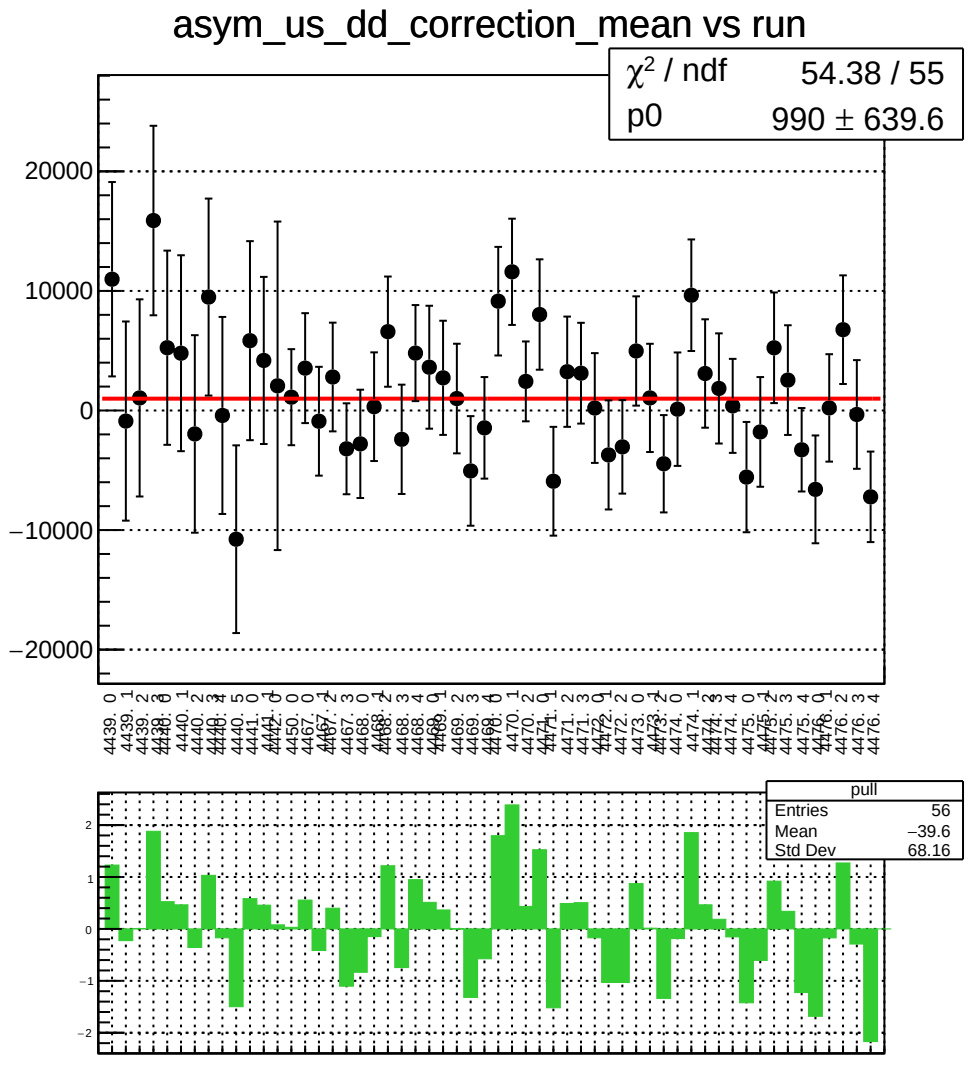

pull1D
Entries 56
Mean 0.02995
Std Dev 1.136
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

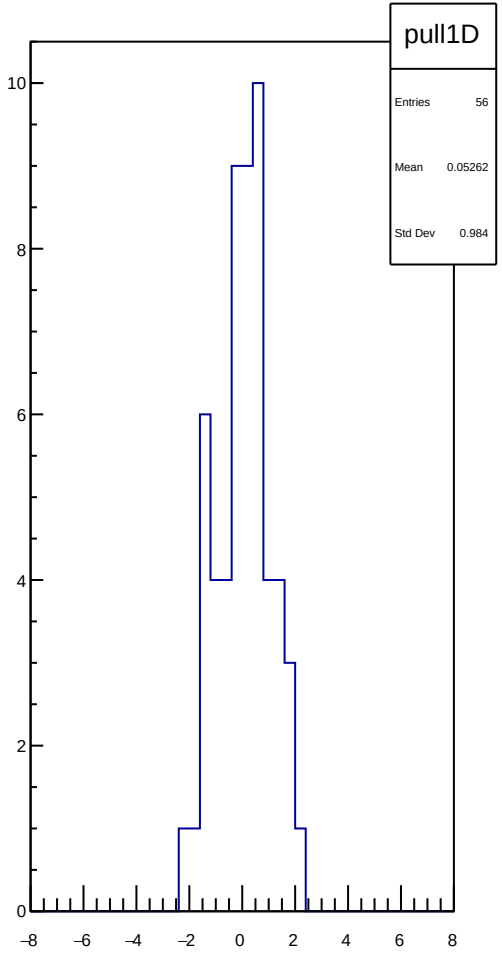

asym_us_avg_rms vs run
χ² / ndf 2.787e+04 / 55
p0 229.9 ± 0.2236
400
350
300
250
200

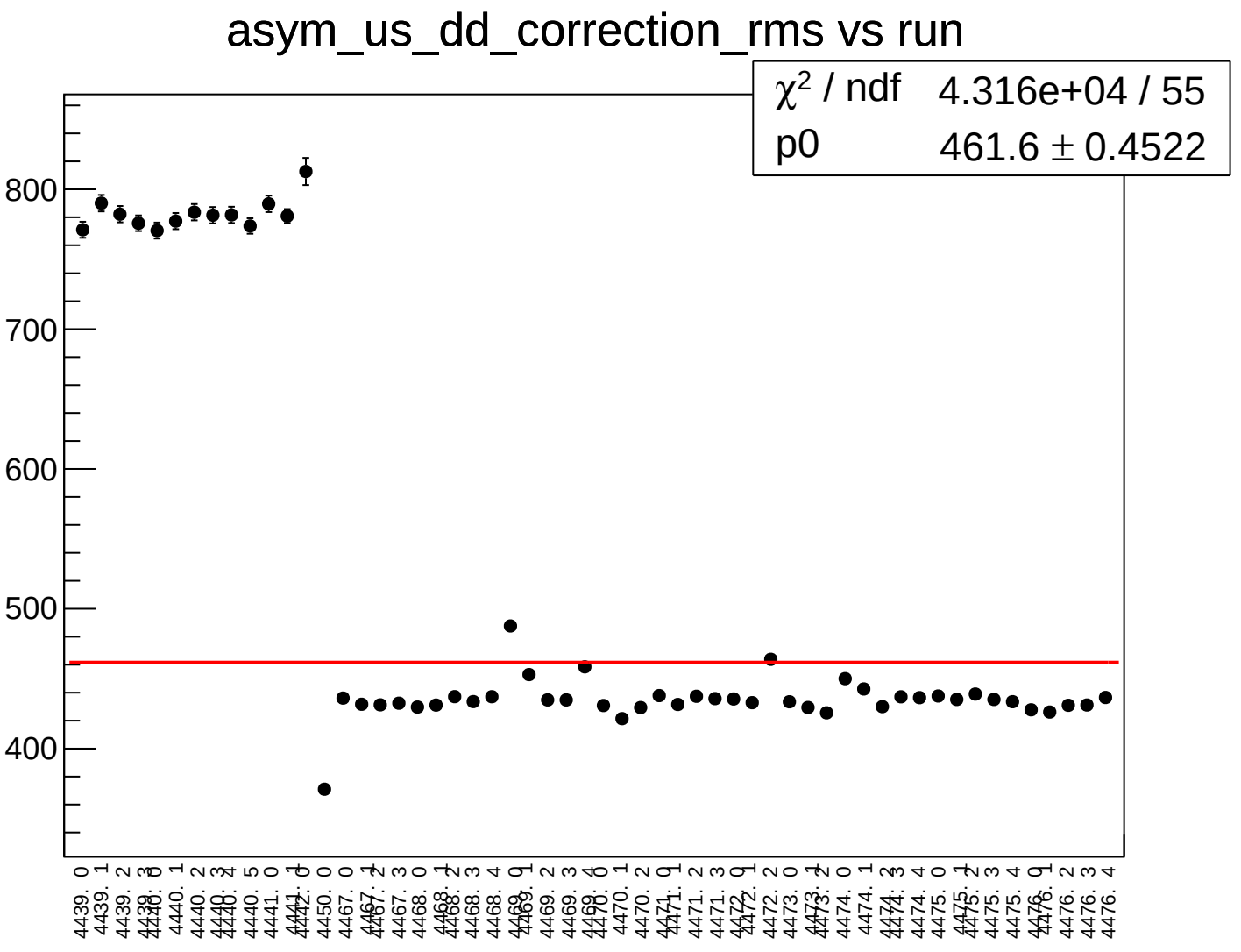

reg_asym_us_dd_mean vs run
χ² / ndf 52.46 / 55
p0 −42.47 ± 126.7
pull
Entries 56
Mean 274.9
Std Dev 246.1

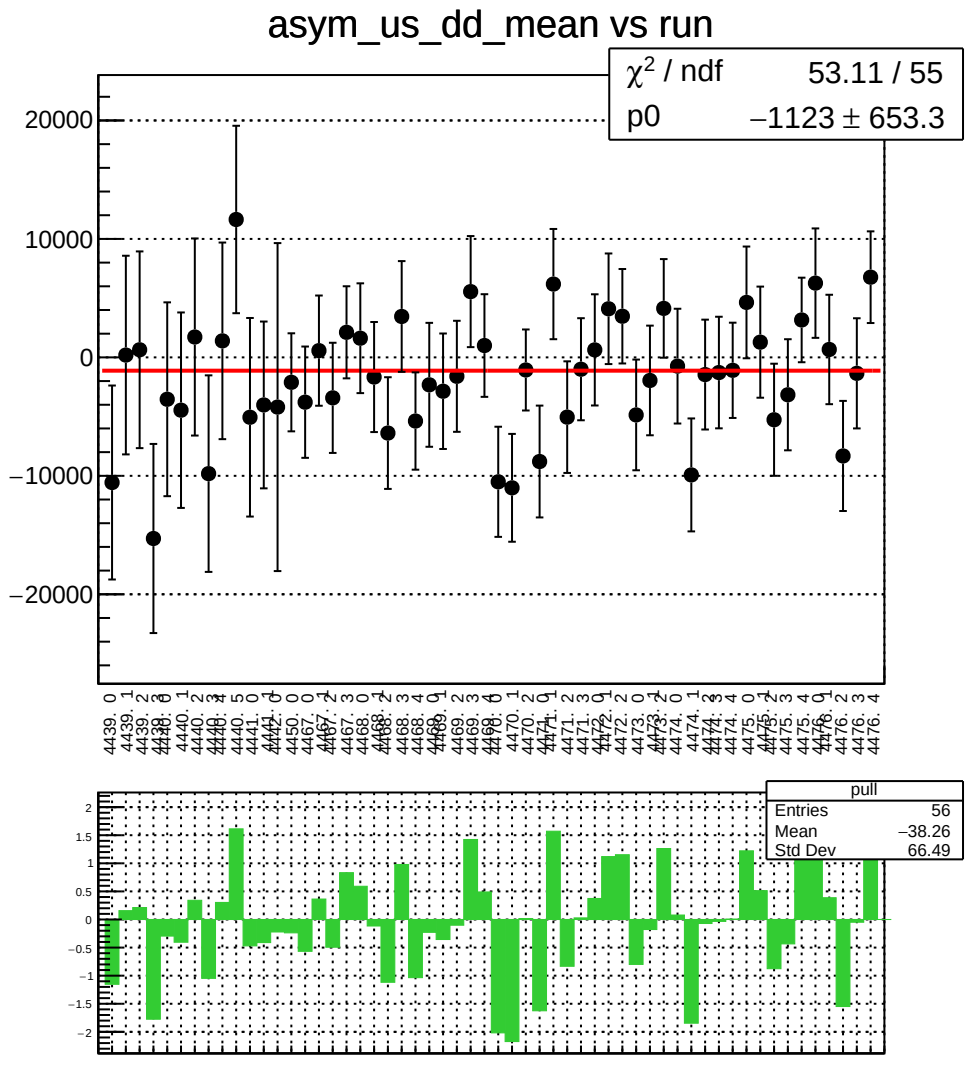

pull1D
Entries 56
Mean −0.01304
Std Dev 0.9678

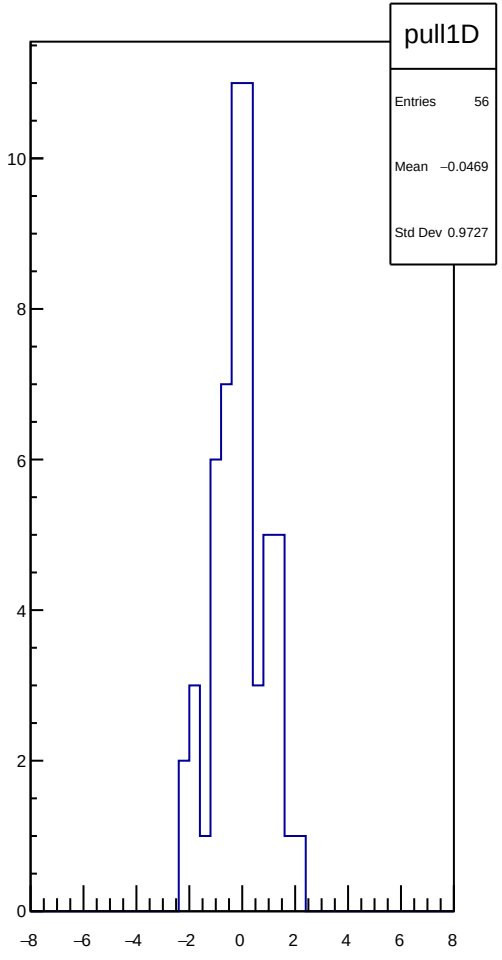

reg_asym_us_dd_rms vs run
χ² / ndf 317.8 / 55
p0 93.28 ± 0.08956
102
100
98
96
94
92
90
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

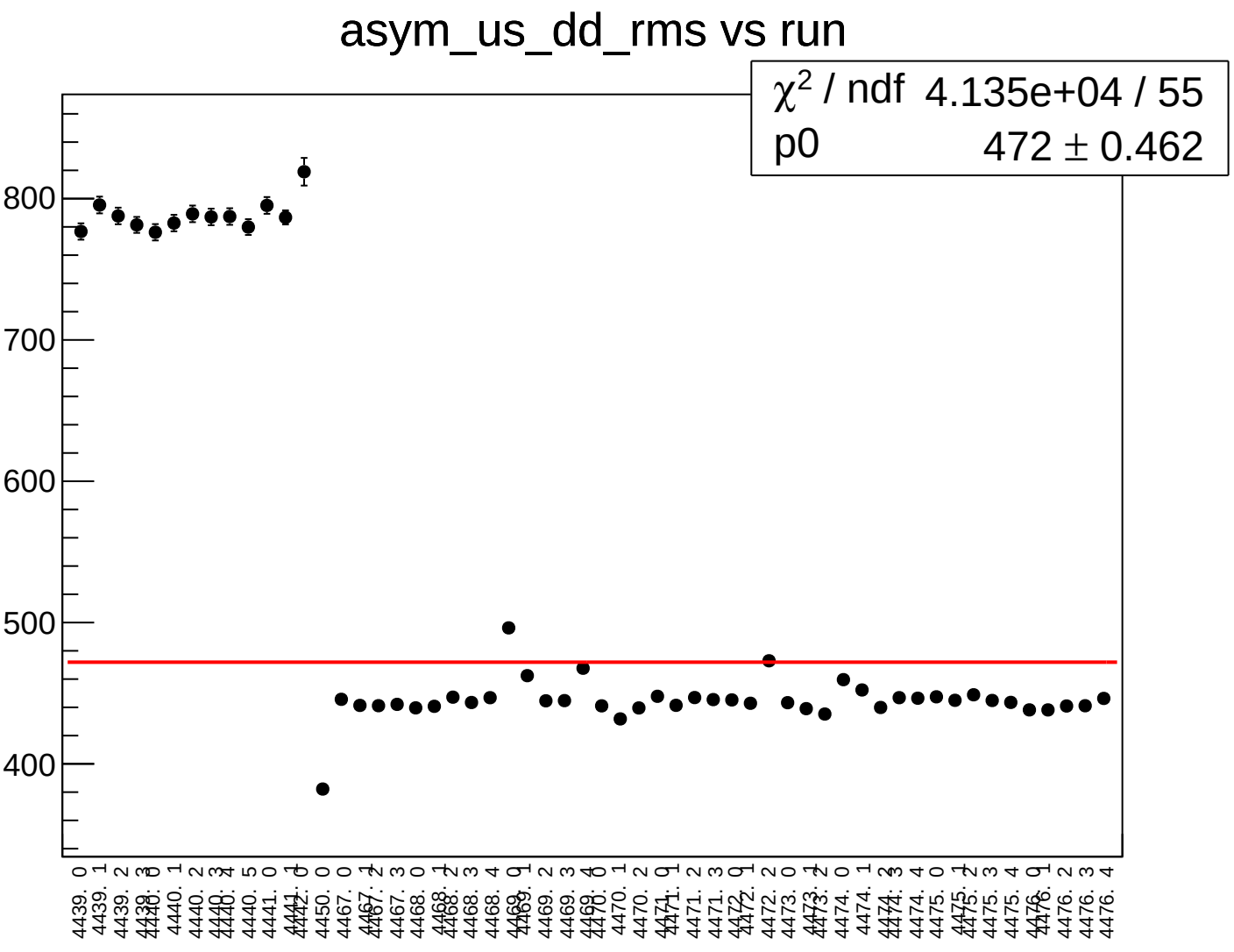

asym_us_dd_correction_mean vs run
χ² / ndf 54.38 / 55
p0 990 ± 639.6
20000
10000
0
−10000
−20000
pull
Entries 56
Mean −39.6
Std Dev 68.16
2
1
0
−1
−2

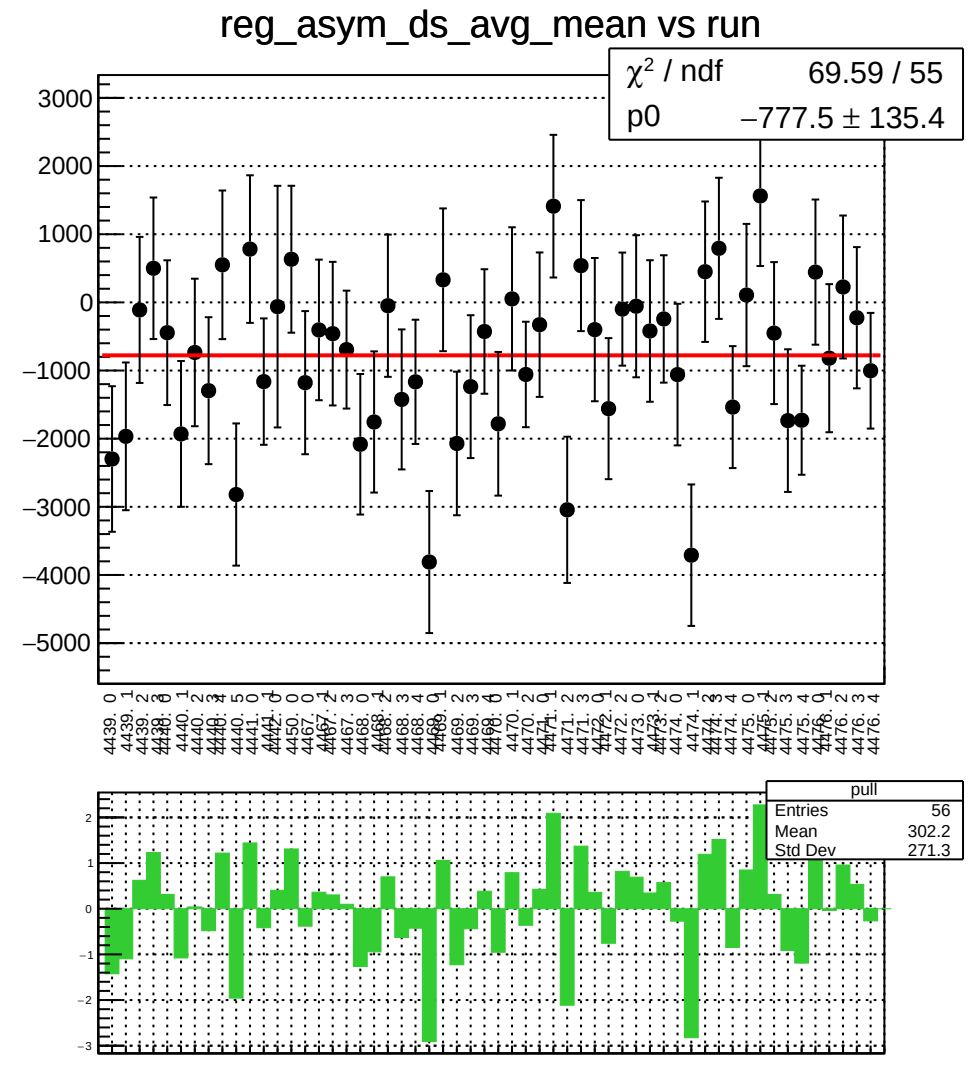

pull1D
Entries 56
Mean 0.05262
Std Dev 0.984
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

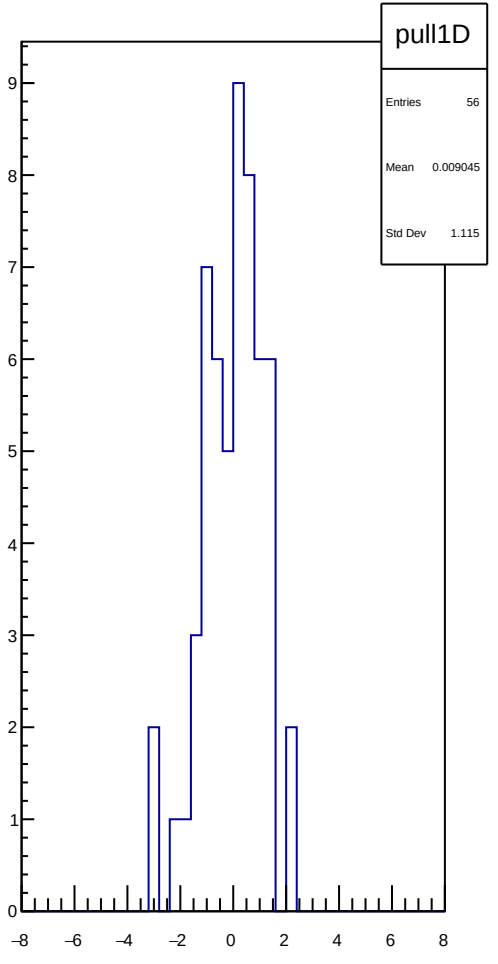

asym_us_dd_correction_rms vs run
χ² / ndf 4.316e+04 / 55
p0 461.6 ± 0.4522
800
700
600
500
400

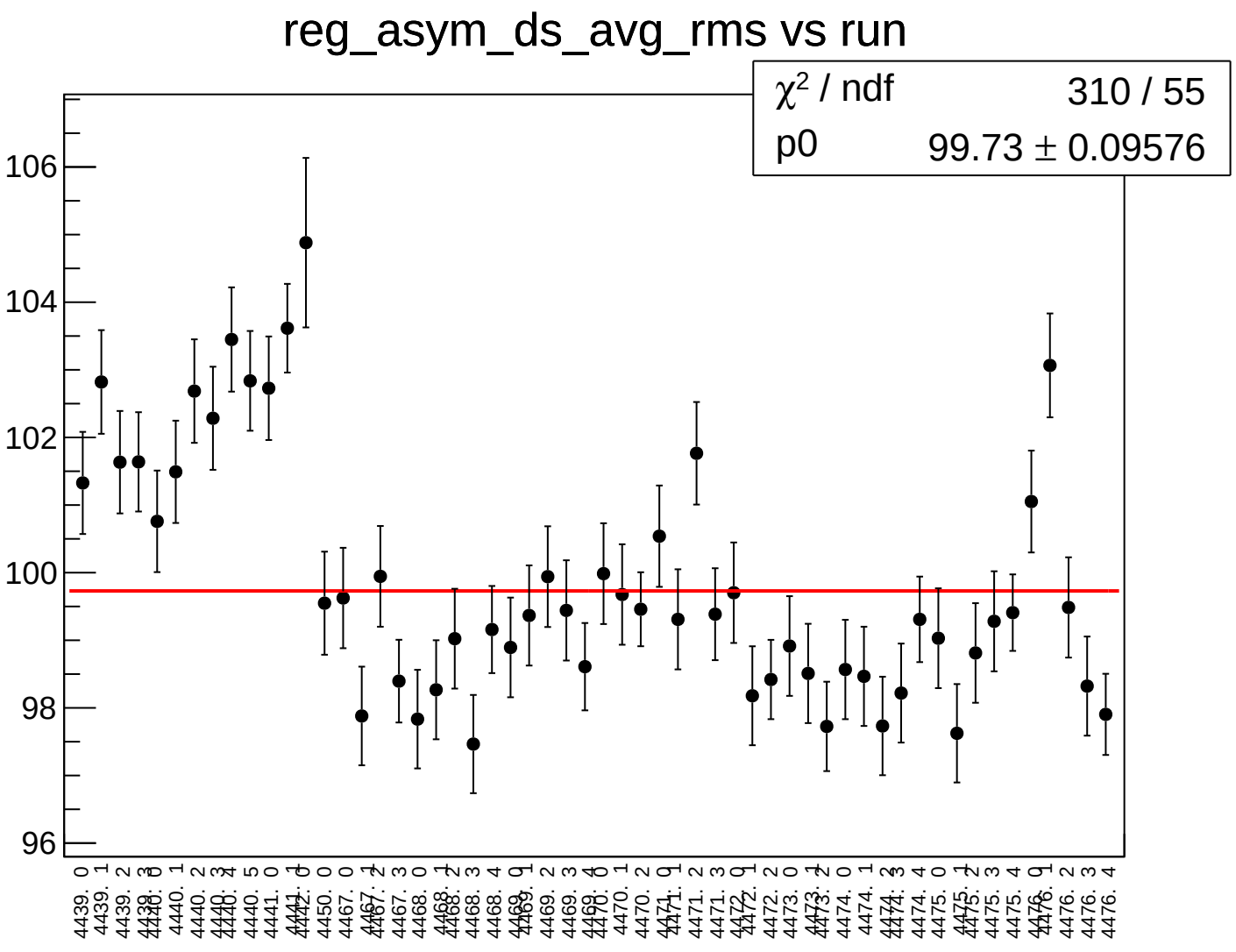

asym_us_dd_mean vs run
χ² / ndf 53.11 / 55
p0 −1123 ± 653.3
20000
10000
0
−10000
−20000
pull
Entries 56
Mean −38.26
Std Dev 66.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

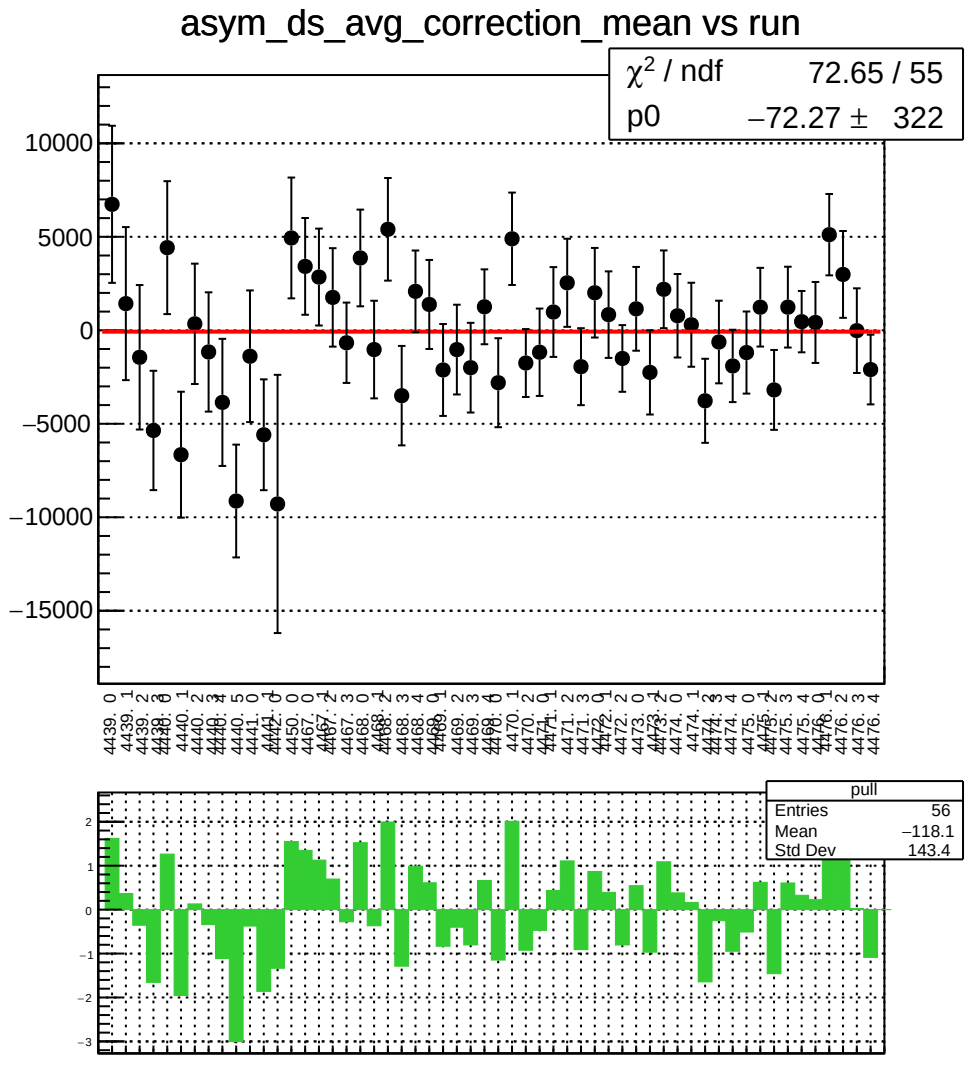

pull1D
Entries 56
Mean −0.0469
Std Dev 0.9727
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

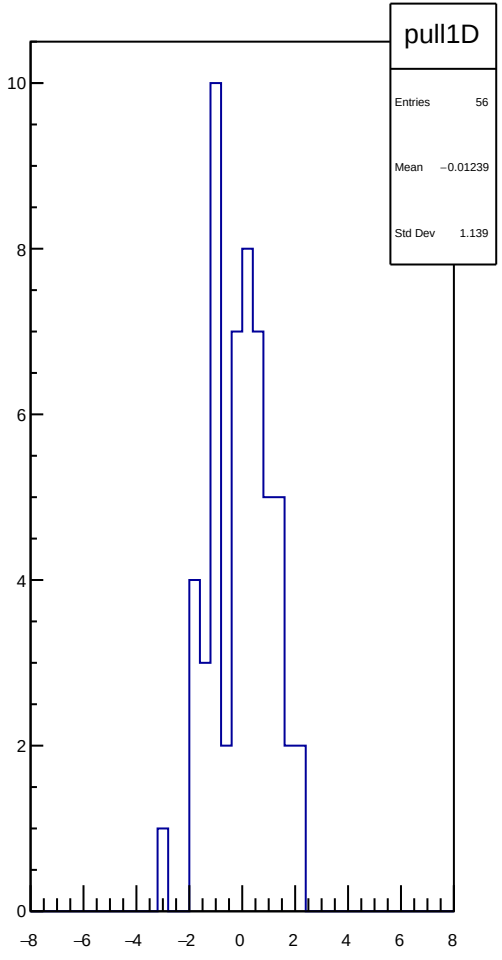

asym_us_dd_rms vs run
χ² / ndf 4.135e+04 / 55
p0 472 ± 0.462
800
700
600
500
400

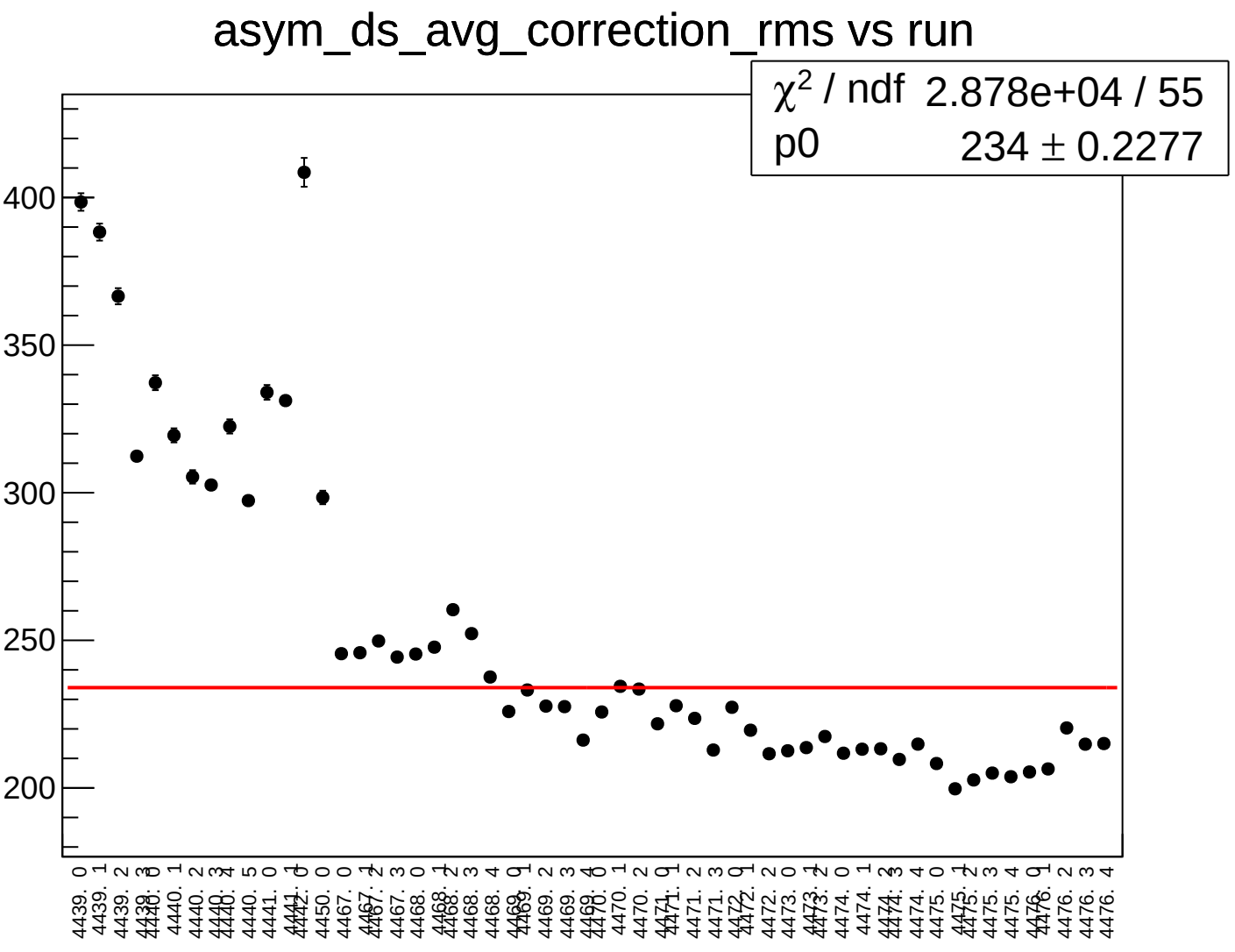

reg_asym_ds_avg_mean vs run
χ² / ndf 69.59 / 55
p0 −777.5 ± 135.4
pull
Entries 56
Mean 302.2
Std Dev 271.3

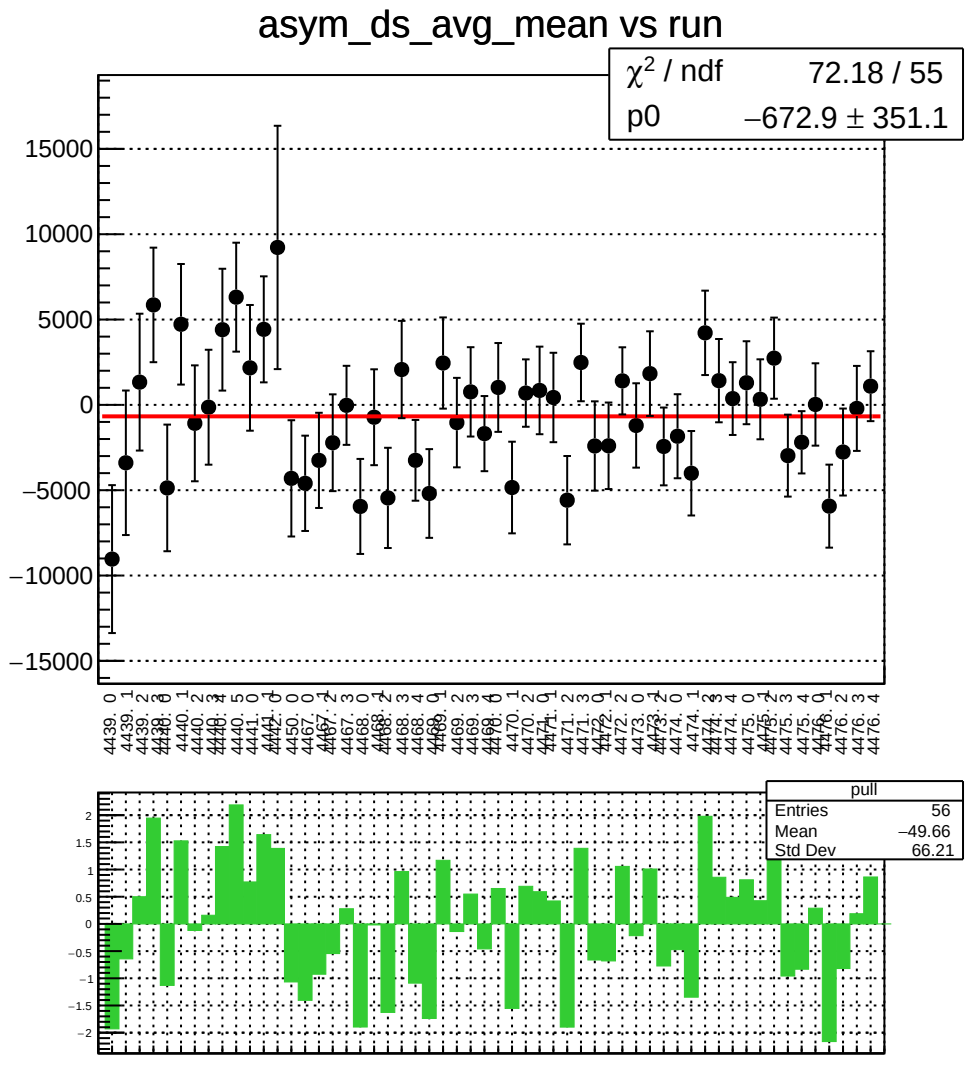

pull1D
Entries 56
Mean 0.009045
Std Dev 1.115

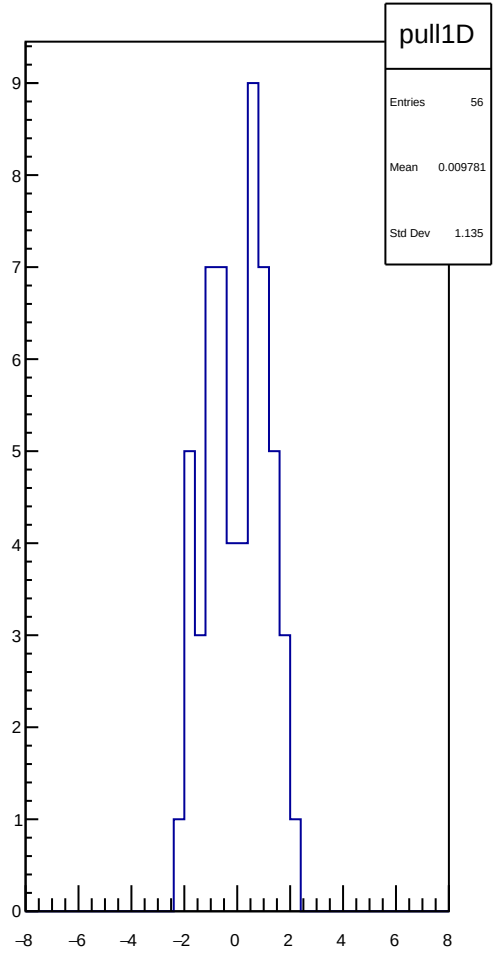

reg_asym_ds_avg_rms vs run
χ² / ndf 310 / 55
p0 99.73 ± 0.09576
106
104
102
100
98
96

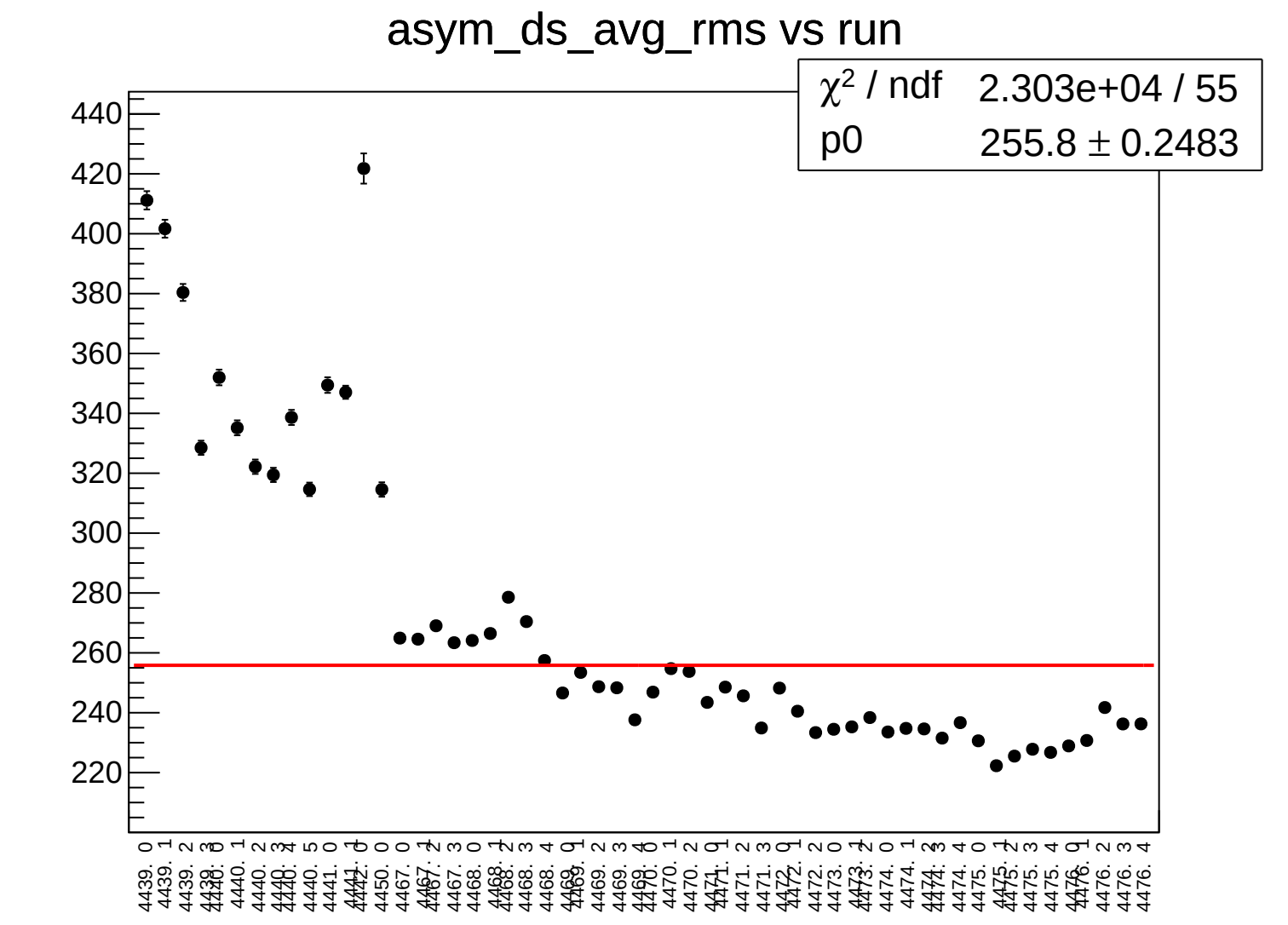

asym_ds_avg_correction_mean vs run
χ² / ndf 72.65 / 55
p0 −72.27 ± 322
pull
Entries 56
Mean −118.1
Std Dev 143.4

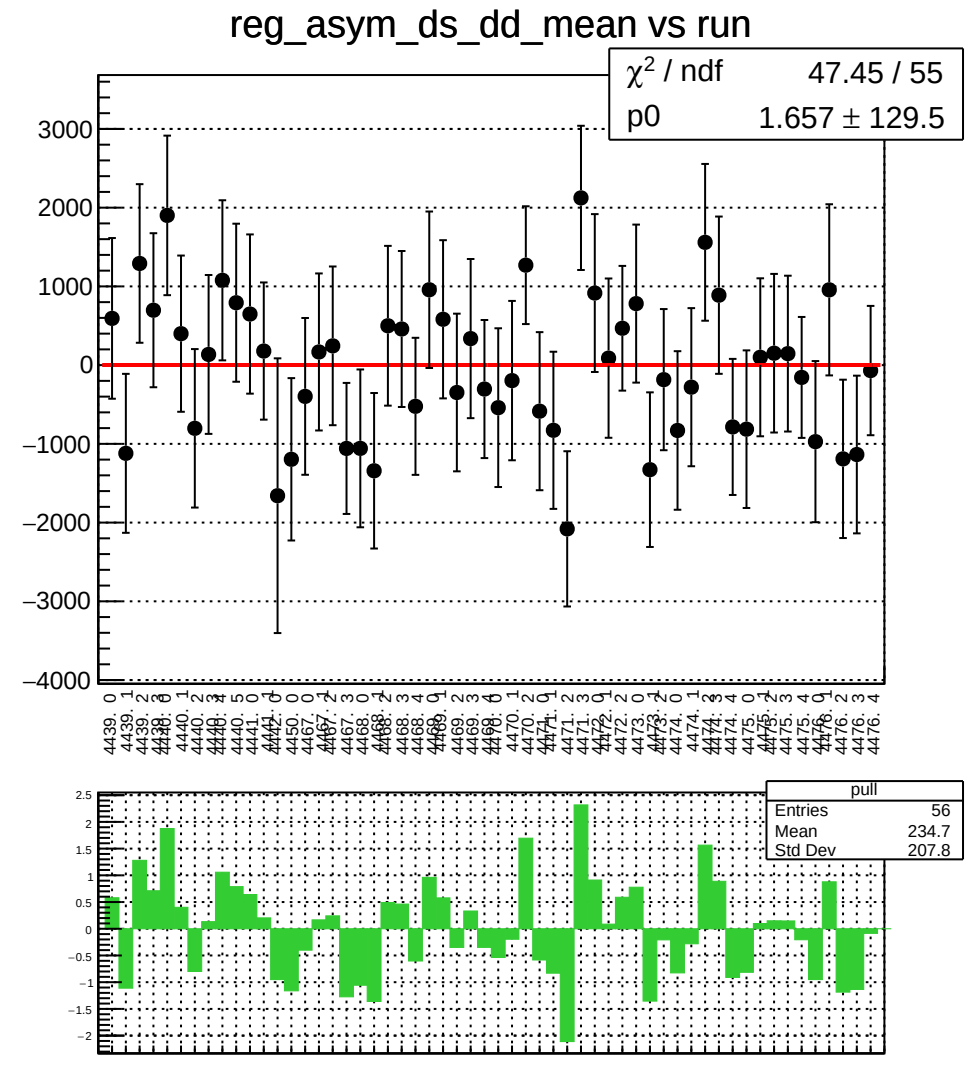

pull1D
Entries 56
Mean −0.01239
Std Dev 1.139

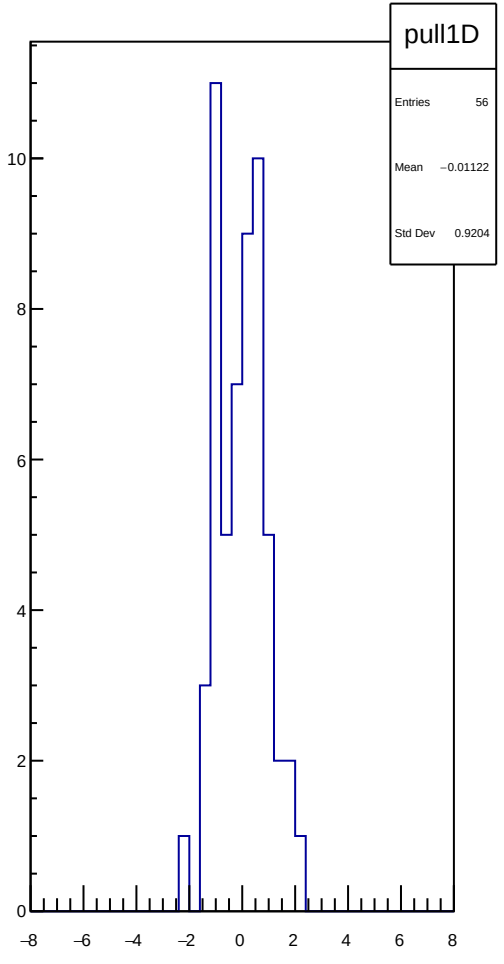

asym_ds_avg_correction_rms vs run
χ² / ndf 2.878e+04 / 55
p0 234 ± 0.2277
400
350
300
250
200

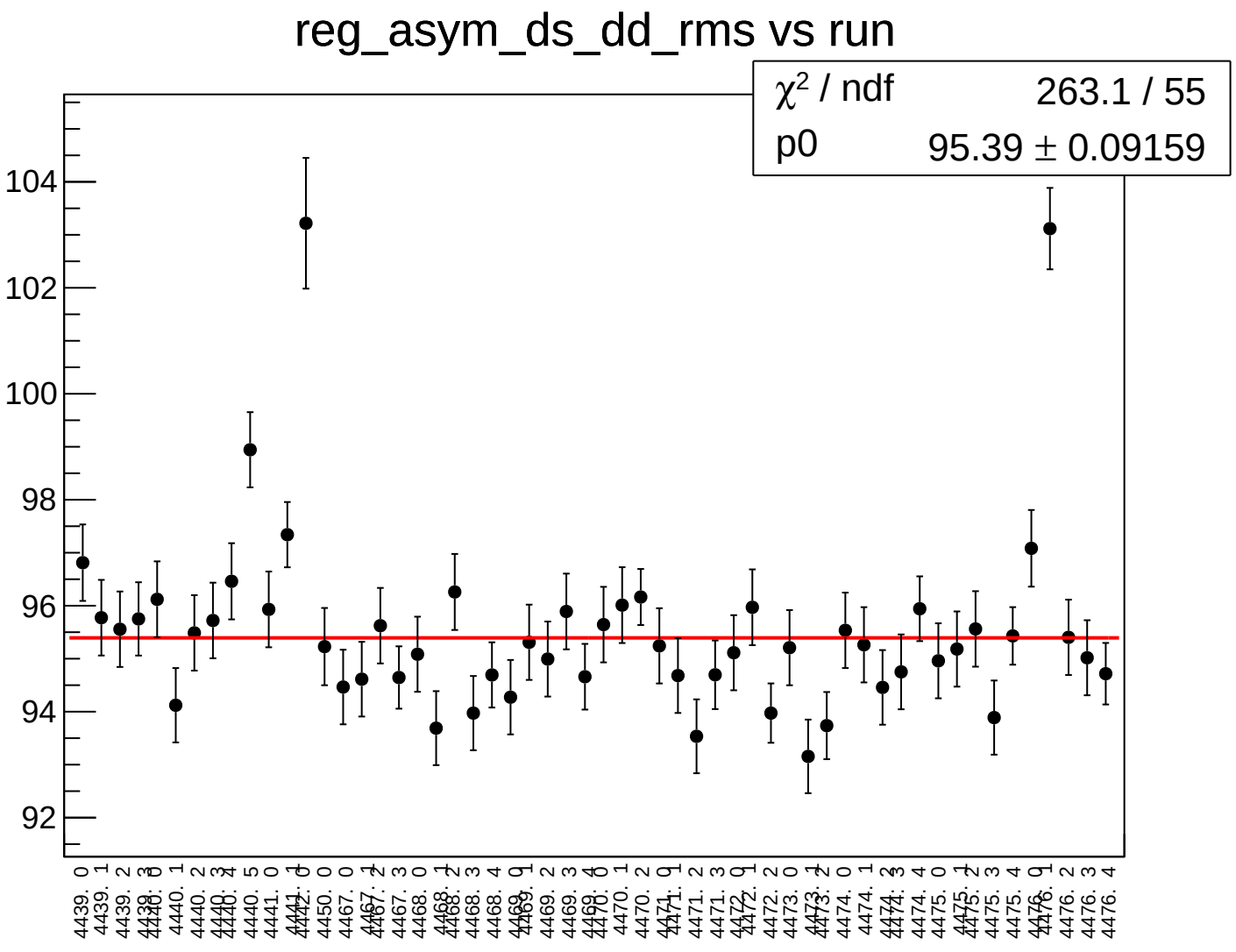

asym_ds_avg_mean vs run
χ² / ndf 72.18 / 55
p0 −672.9 ± 351.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 56
Mean −49.66
Std Dev 66.21
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

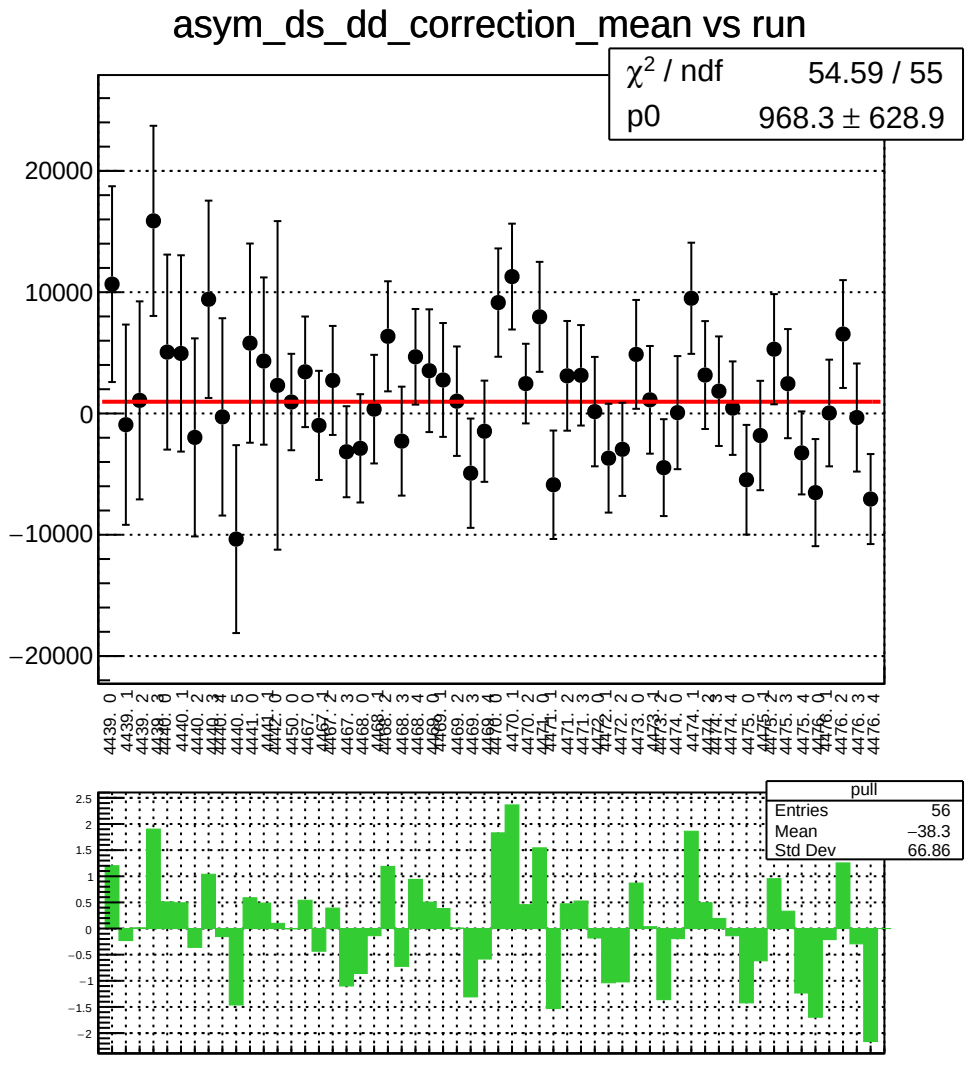

pull1D
Entries 56
Mean 0.009781
Std Dev 1.135
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

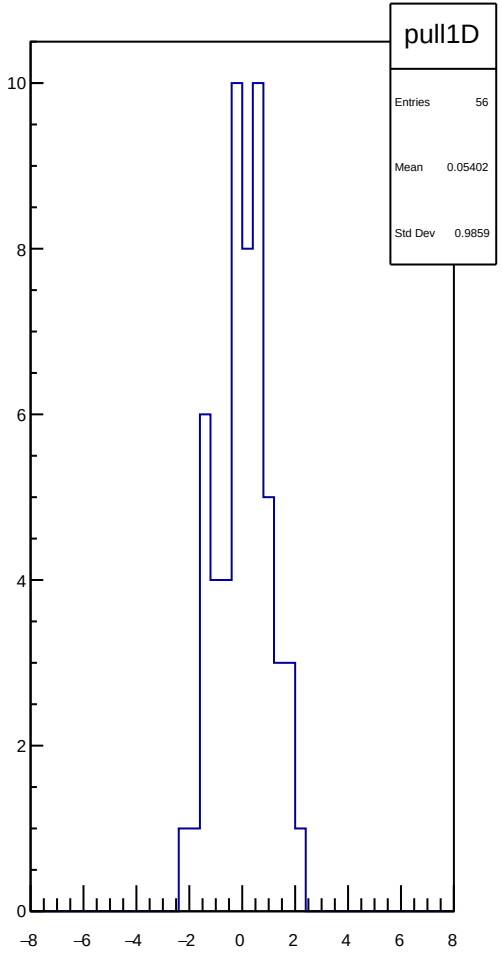

asym_ds_avg_rms vs run
χ² / ndf 2.303e+04 / 55
p0 255.8 ± 0.2483
440
420
400
380
360
340
320
300
280
260
240
220

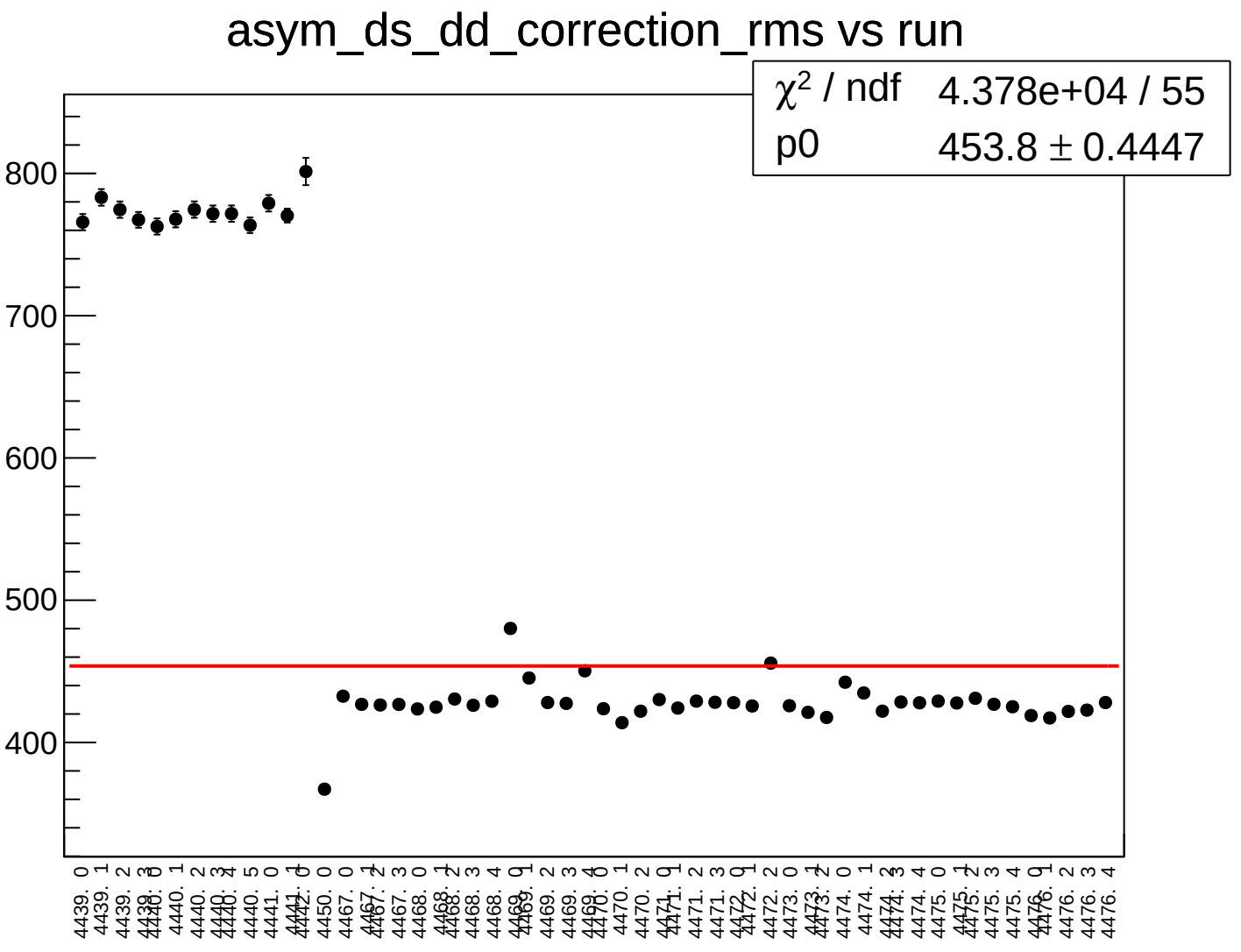

reg_asym_ds_dd_mean vs run
χ² / ndf 47.45 / 55
p0 1.657 ± 129.5
pull
Entries 56
Mean 234.7
Std Dev 207.8

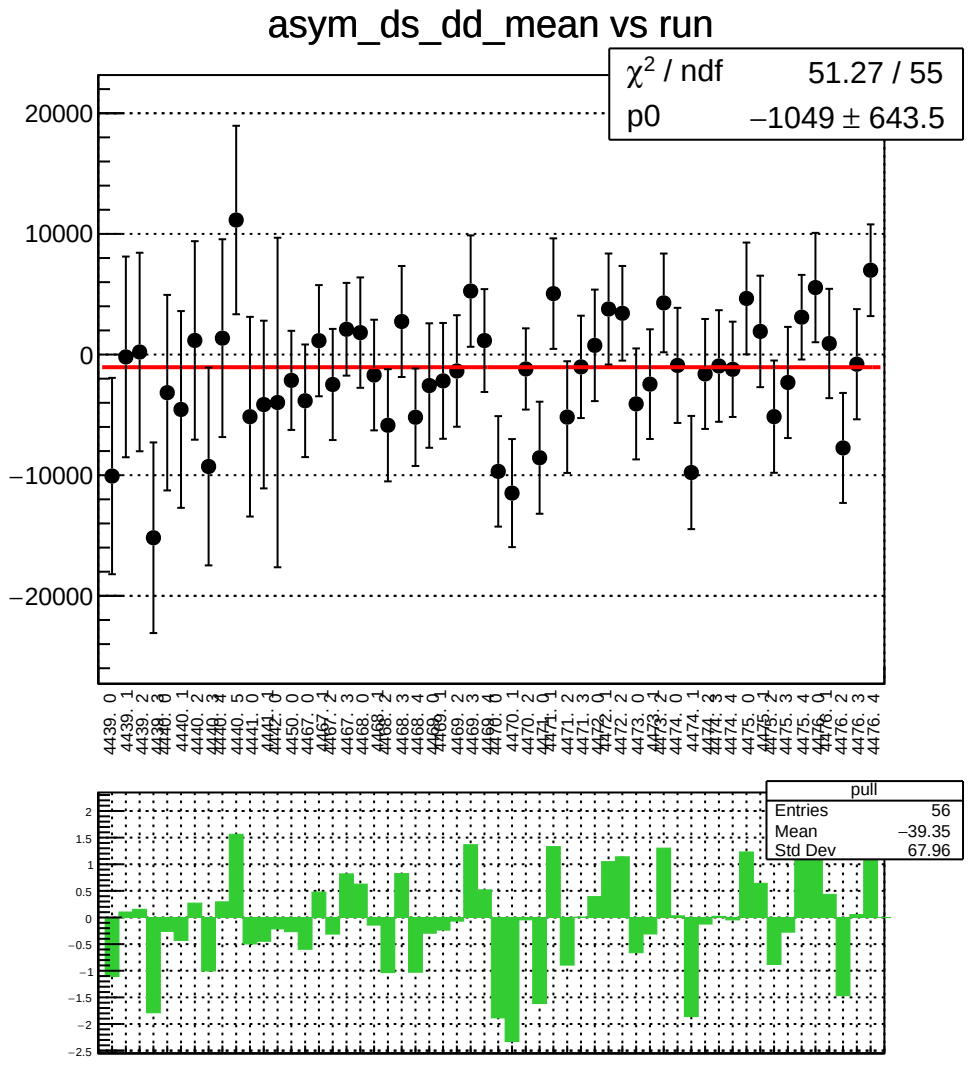

pull1D
Entries 56
Mean −0.01122
Std Dev 0.9204

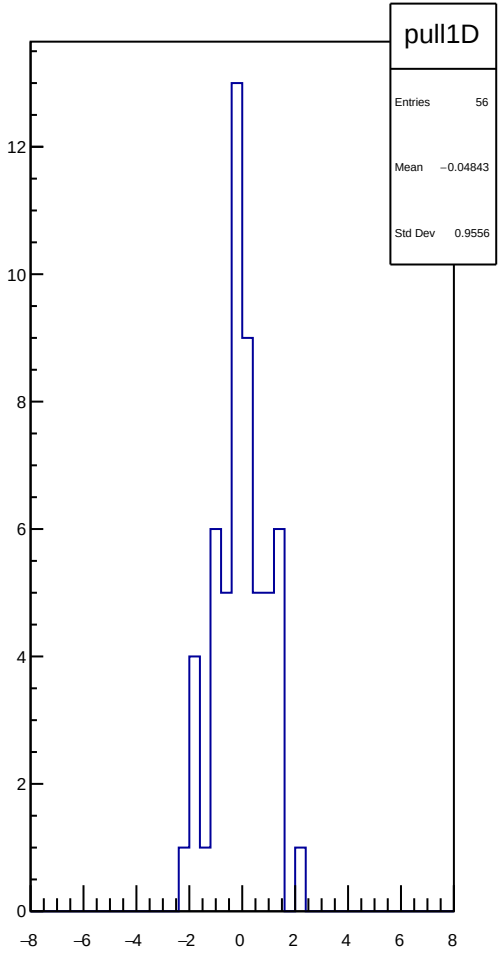

reg_asym_ds_dd_rms vs run
χ² / ndf 263.1 / 55
p0 95.39 ± 0.09159
104
102
100
98
96
94
92

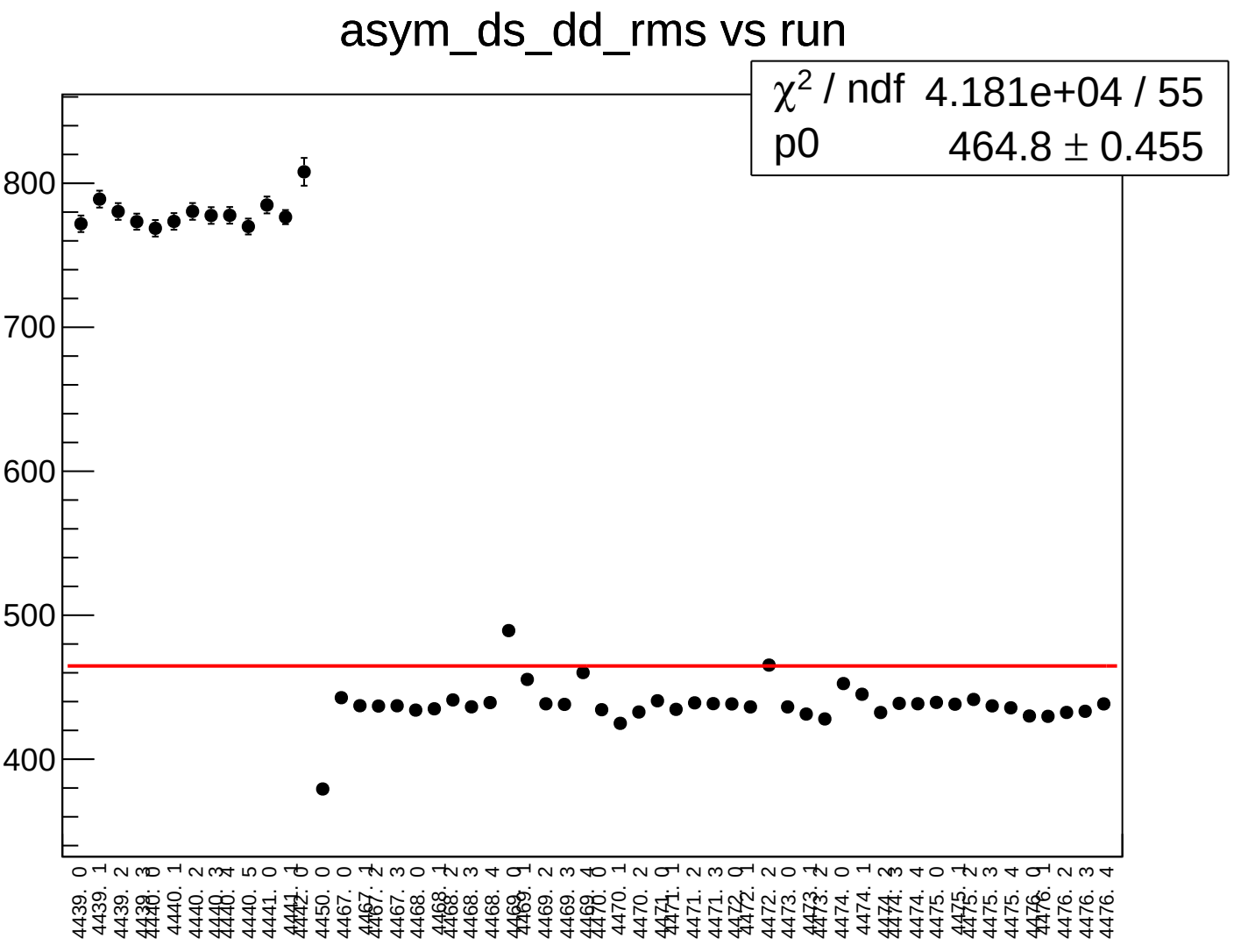

asym_ds_dd_correction_mean vs run
χ² / ndf 54.59 / 55
p0 968.3 ± 628.9
20000
10000
0
−10000
−20000
pull
Entries 56
Mean −38.3
Std Dev 66.86
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

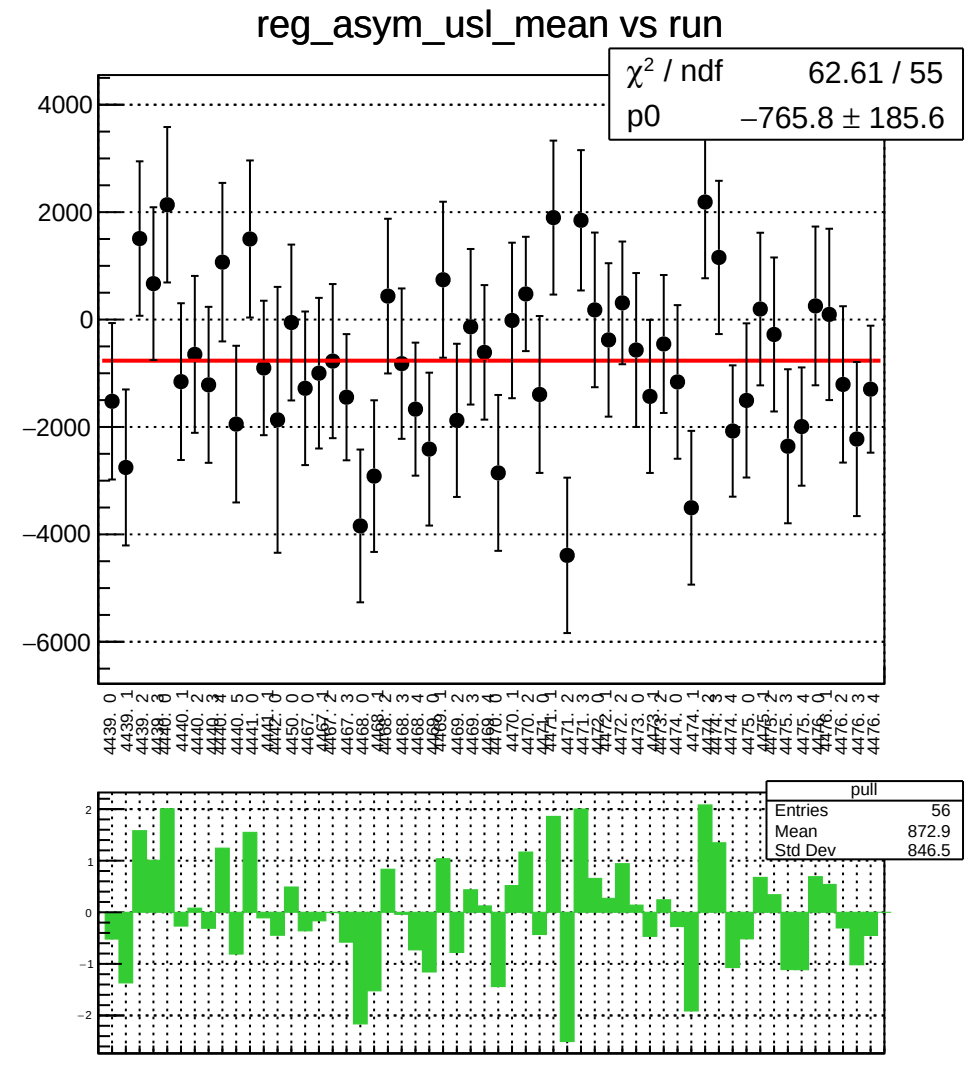

pull1D
Entries 56
Mean 0.05402
Std Dev 0.9859
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

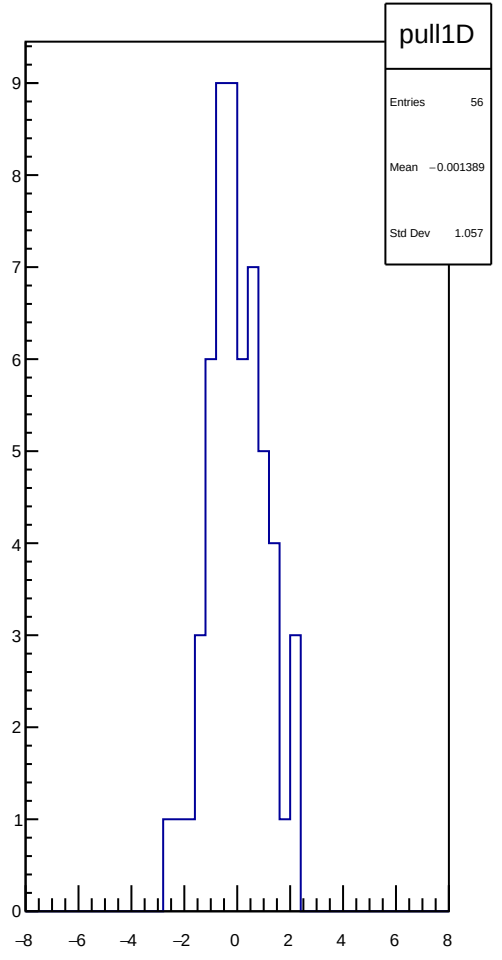

asym_ds_dd_correction_rms vs run
χ² / ndf 4.378e+04 / 55
p0 453.8 ± 0.4447
800
700
600
500
400

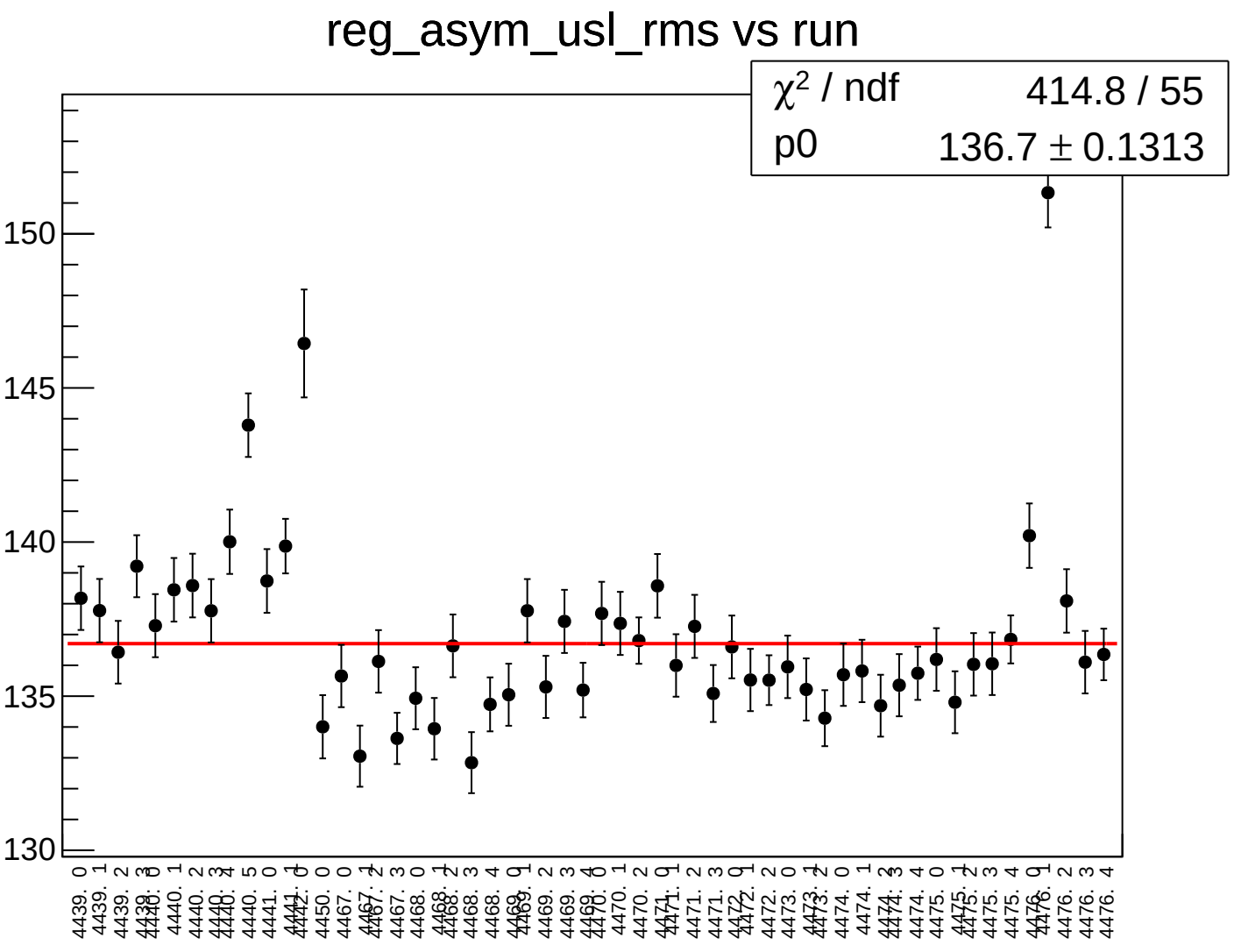

asym_ds_dd_mean vs run
χ² / ndf 51.27 / 55
p0 −1049 ± 643.5
20000
10000
0
−10000
−20000
pull
Entries 56
Mean −39.35
Std Dev 67.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

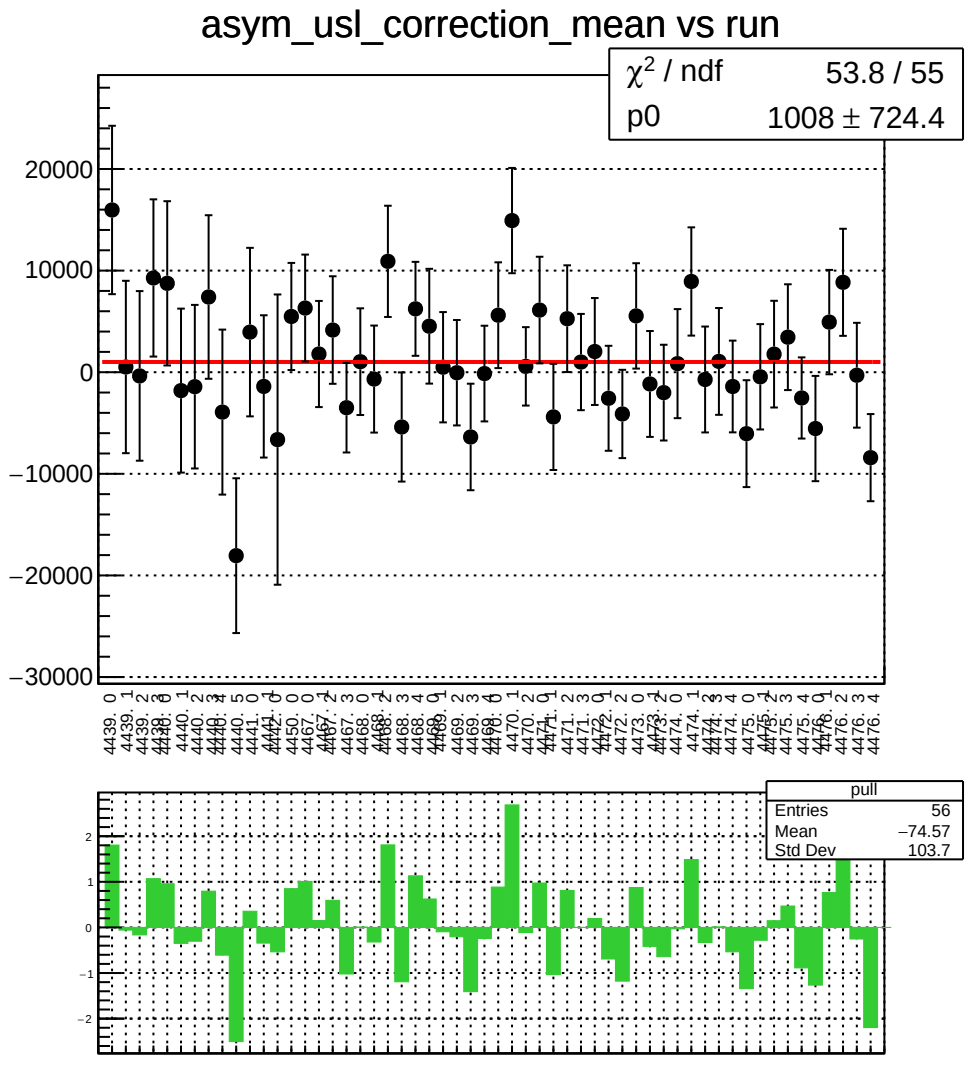

pull1D
Entries 56
Mean −0.04843
Std Dev 0.9556
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

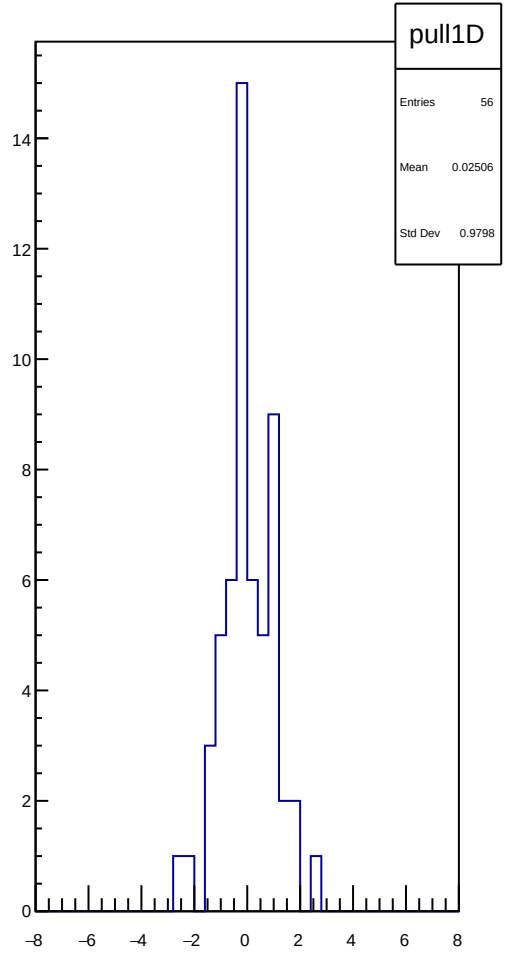

asym_ds_dd_rms vs run
χ² / ndf 4.181e+04 / 55
p0 464.8 ± 0.455
800
700
600
500
400
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

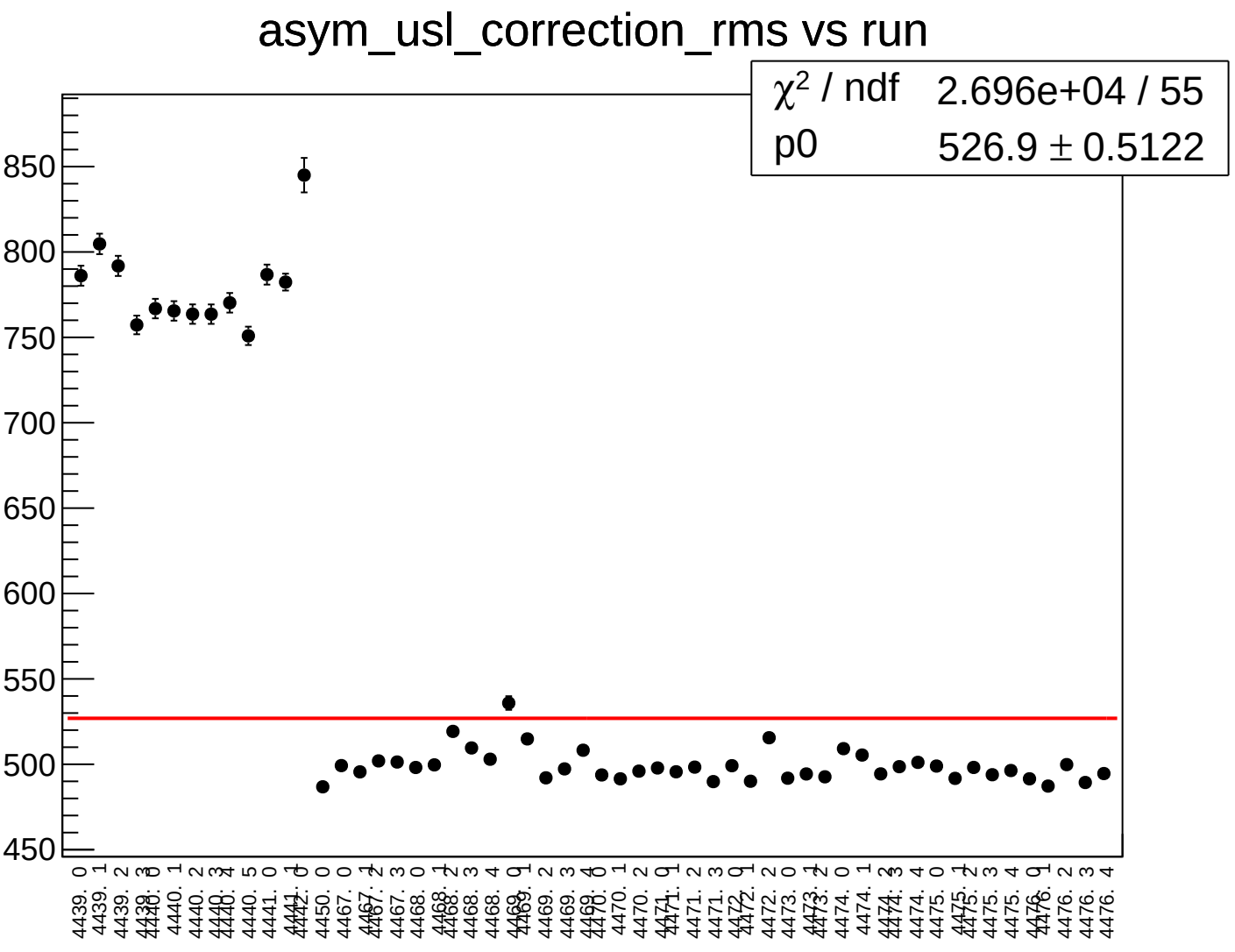

reg_asym_usl_mean vs run
χ² / ndf 62.61 / 55
p0 −765.8 ± 185.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 56
Mean 872.9
Std Dev 846.5
2
1
0
−1
−2

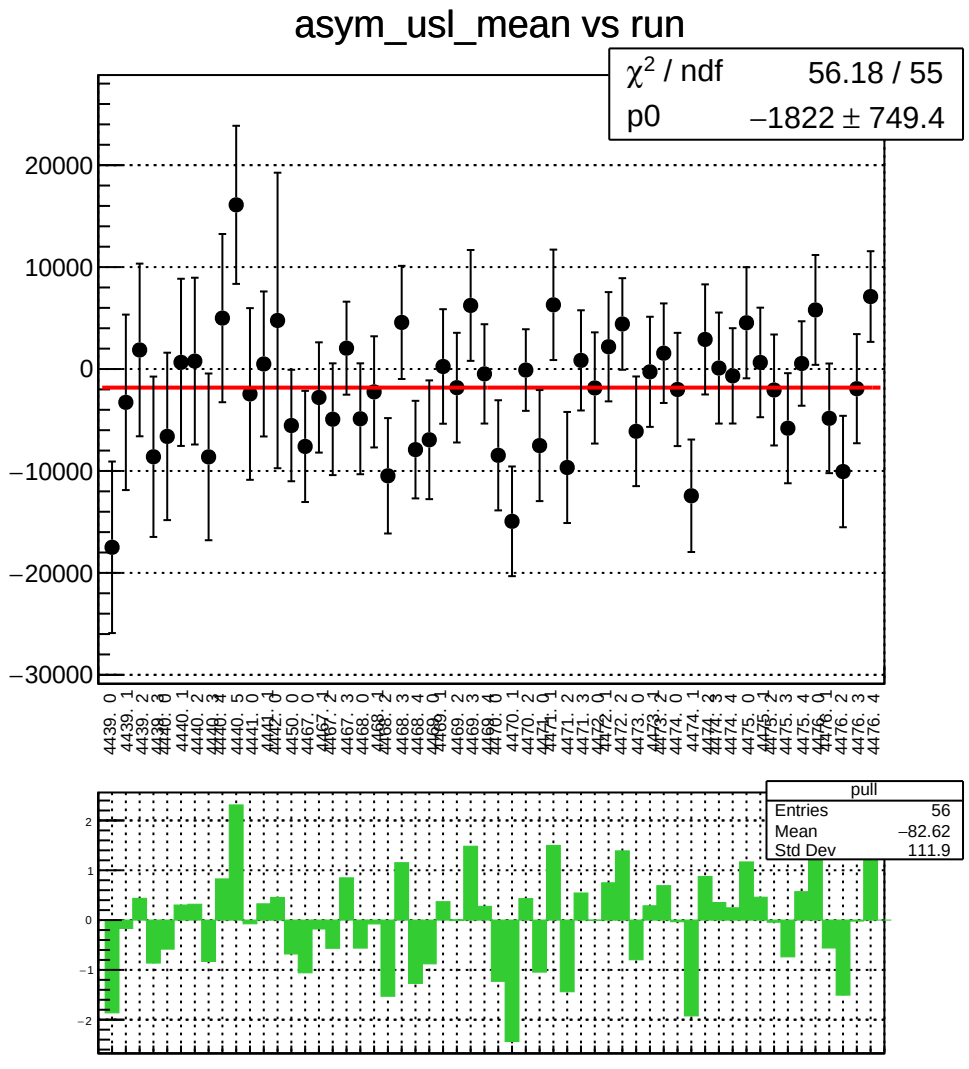

pull1D
Entries 56
Mean −0.001389
Std Dev 1.057
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

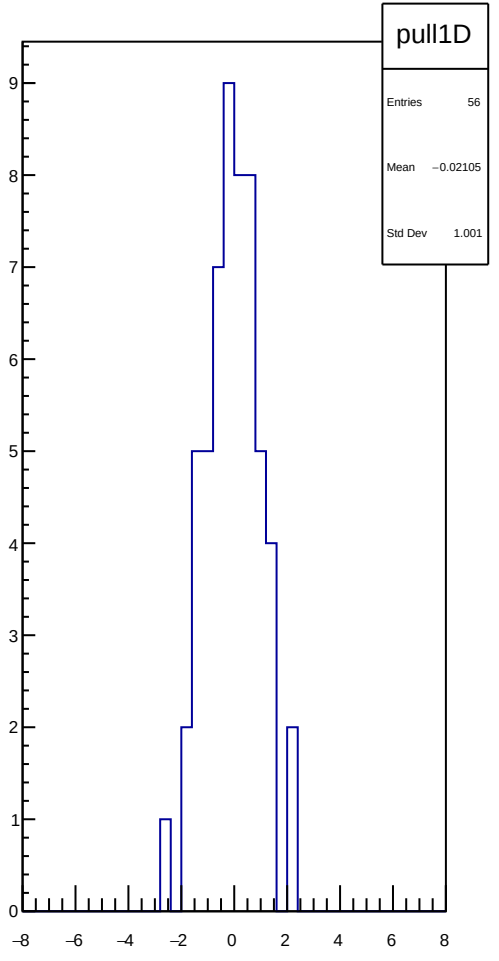

reg_asym_usl_rms vs run
χ² / ndf 414.8 / 55
p0 136.7 ± 0.1313
150
145
140
135
130

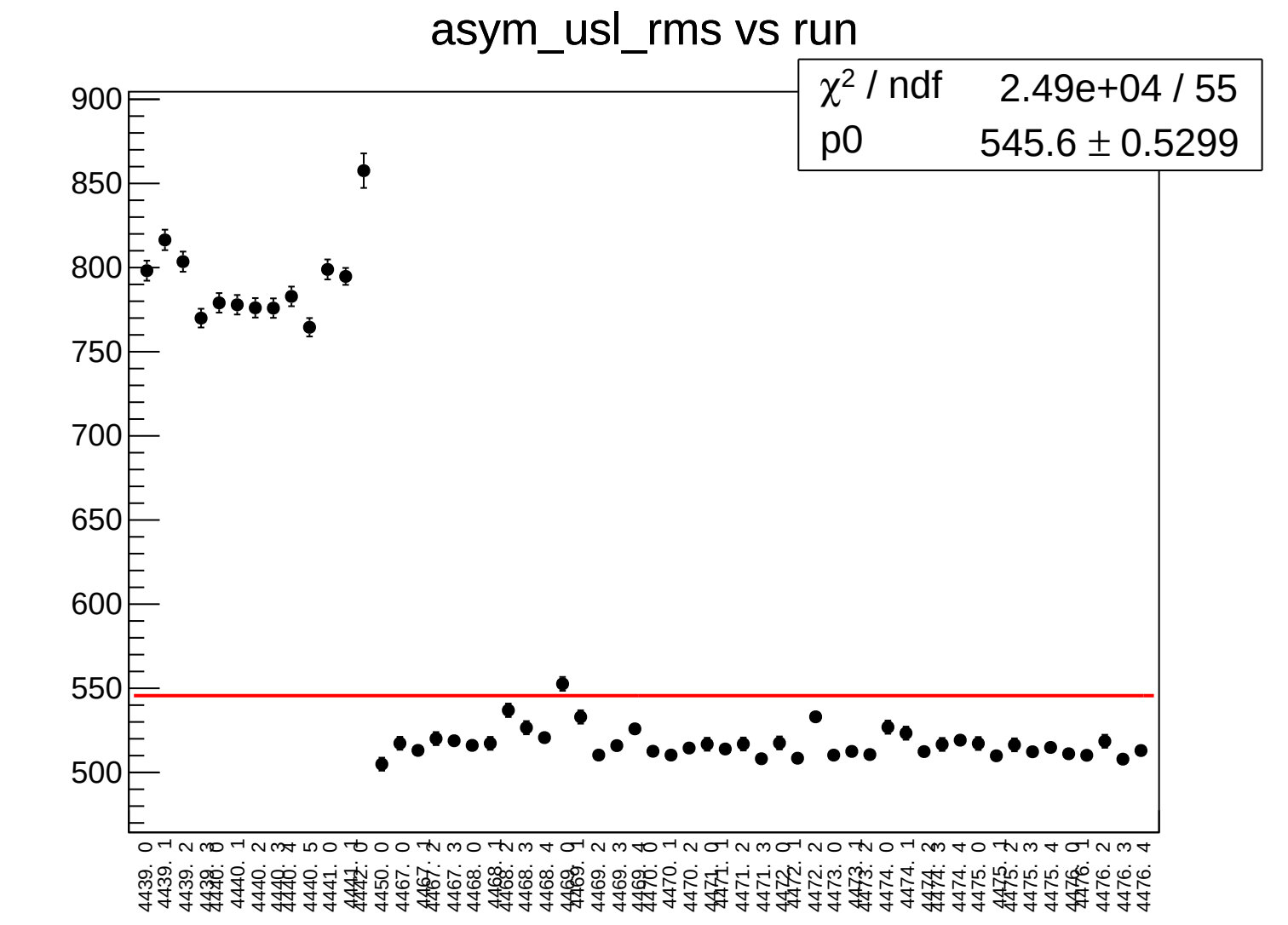

asym_usl_correction_mean vs run
χ² / ndf 53.8 / 55
p0 1008 ± 724.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 56
Mean −74.57
Std Dev 103.7
2
1
0
−1
−2

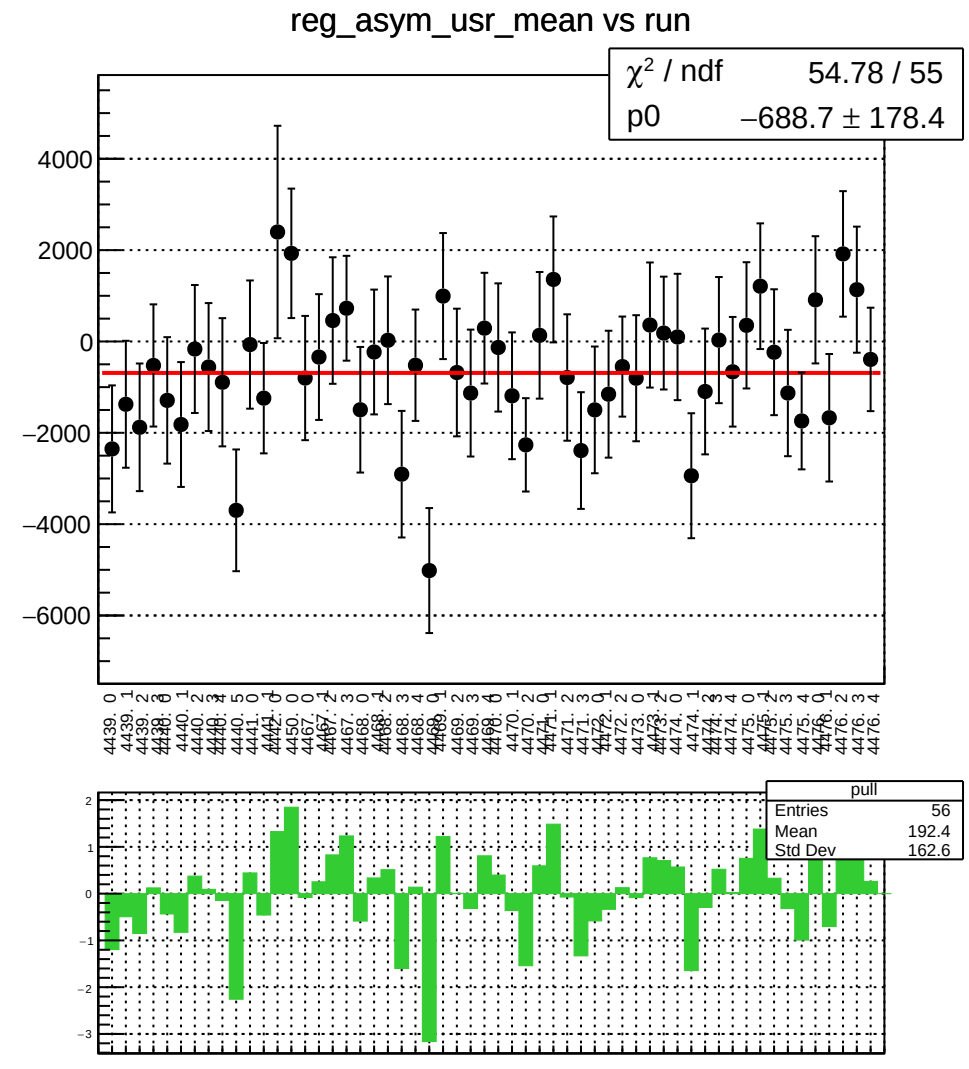

pull1D
Entries 56
Mean 0.02506
Std Dev 0.9798
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

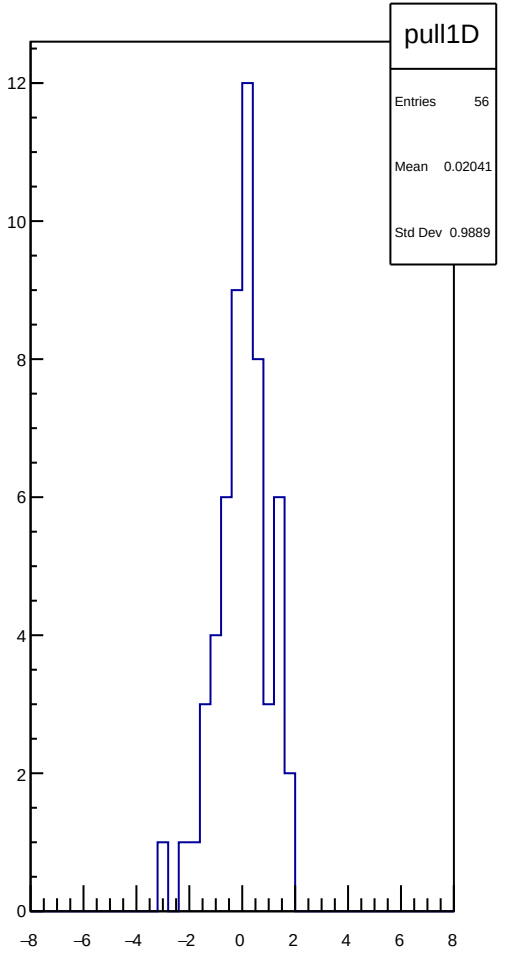

asym_usl_correction_rms vs run
χ² / ndf 2.696e+04 / 55
p0 526.9 ± 0.5122
850
800
750
700
650
600
550
500
450
4439. 0
4439. 1
4439. 2
4440. 1
4440. 2
4440. 5
4441. 0
4450. 0
4467. 0
4467. 2
4467. 3
4468. 0
4468. 2
4468. 3
4468. 4
4469. 2
4469. 3
4470. 1
4470. 2
4471. 2
4471. 3
4472. 2
4473. 0
4474. 0
4474. 1
4474. 4
4475. 0
4475. 3
4475. 4
4476. 2
4476. 3
4476. 4

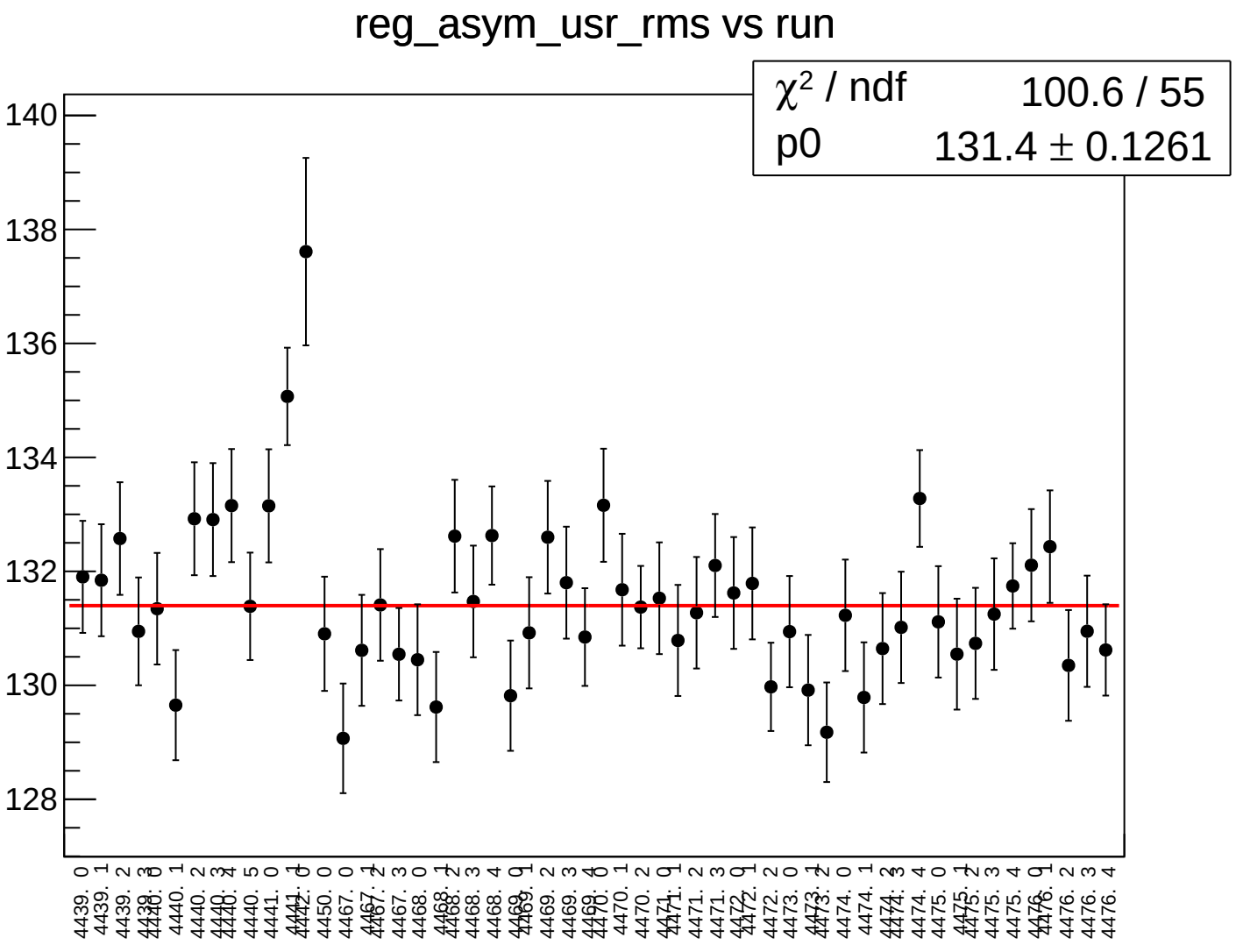

asym_usl_mean vs run
χ² / ndf 56.18 / 55
p0 −1822 ± 749.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 56
Mean −82.62
Std Dev 111.9
2
1
0
−1
−2

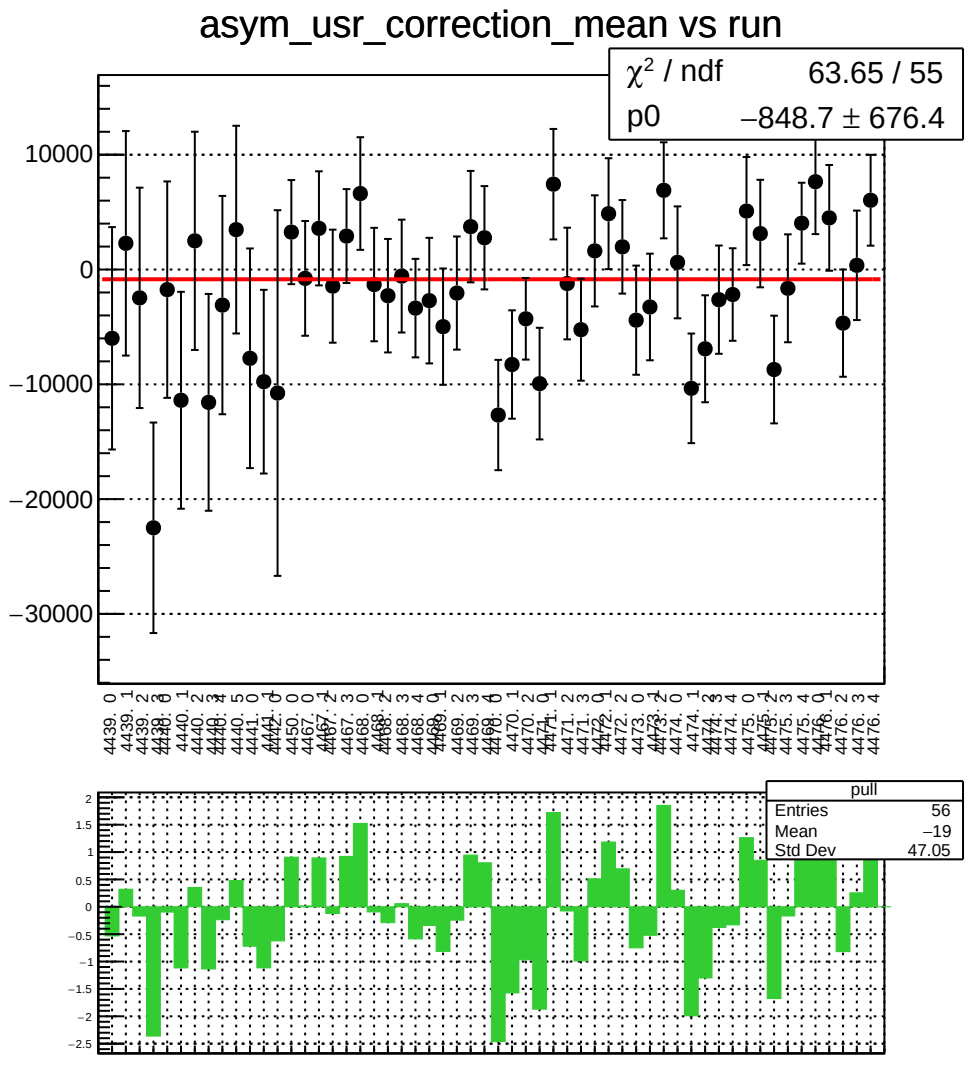

pull1D
Entries 56
Mean −0.02105
Std Dev 1.001
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

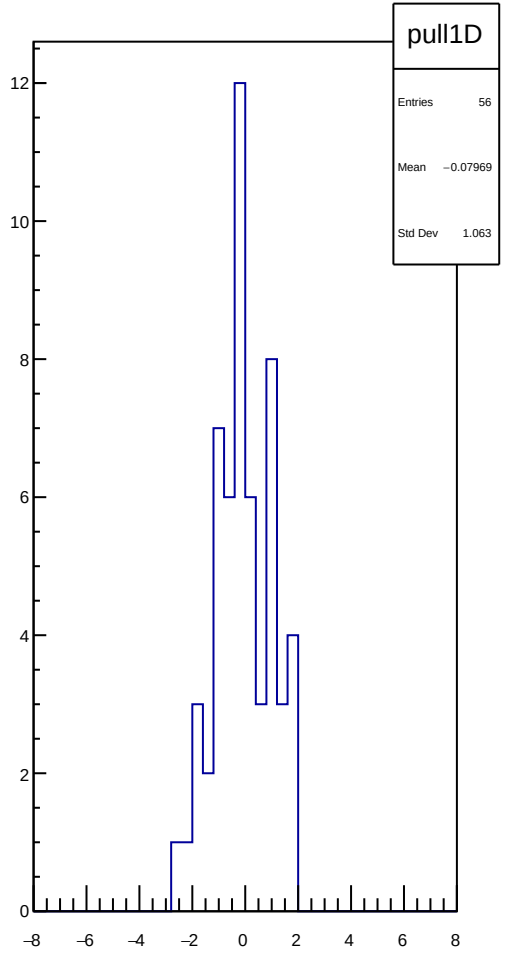

asym_usl_rms vs run
χ² / ndf 2.49e+04 / 55
p0 545.6 ± 0.5299
900
850
800
750
700
650
600
550
500

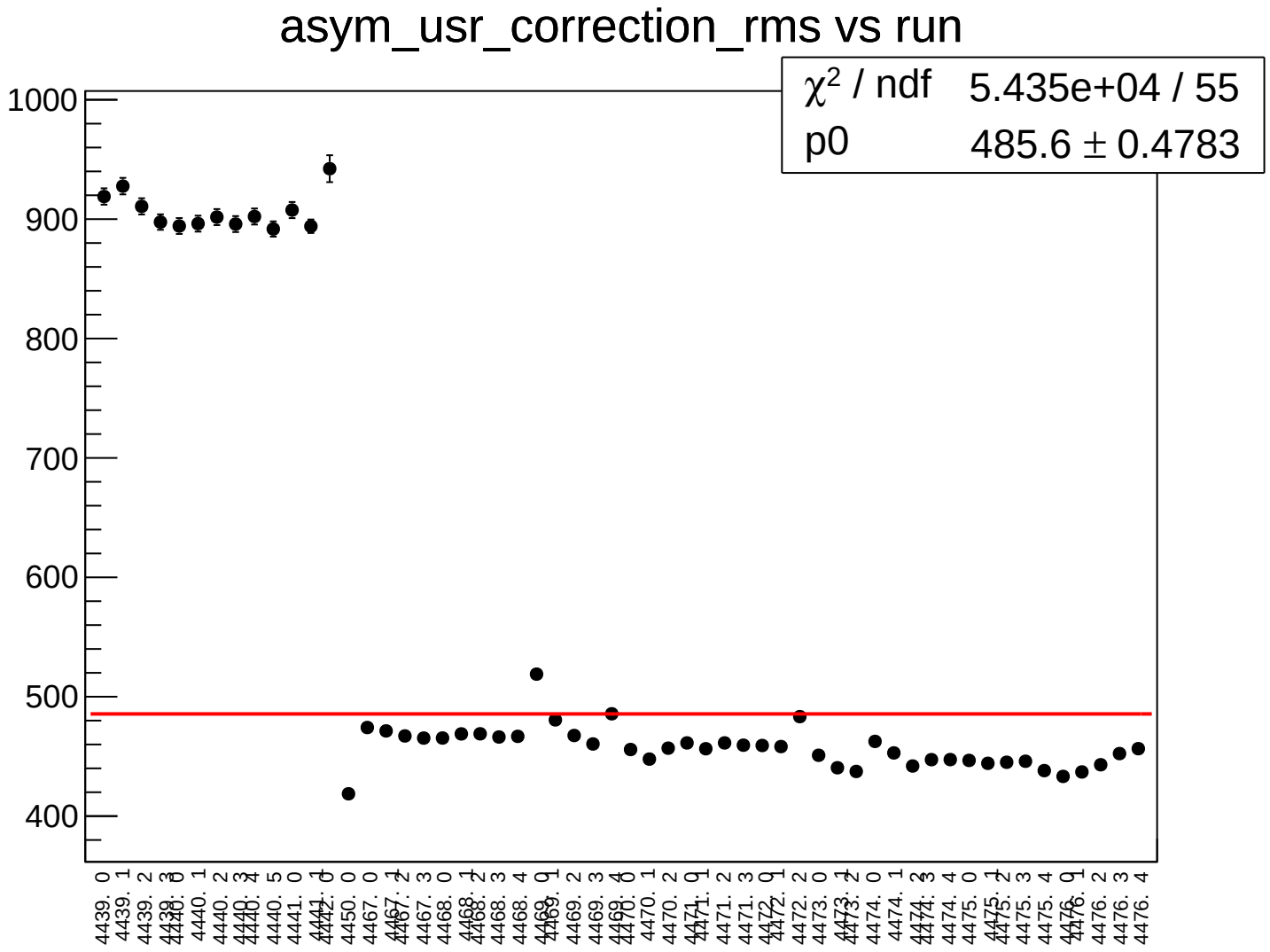

reg_asym_usr_mean vs run
χ² / ndf 54.78 / 55
p0 −688.7 ± 178.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 56
Mean 192.4
Std Dev 162.6
2
1
0
−1
−2
−3

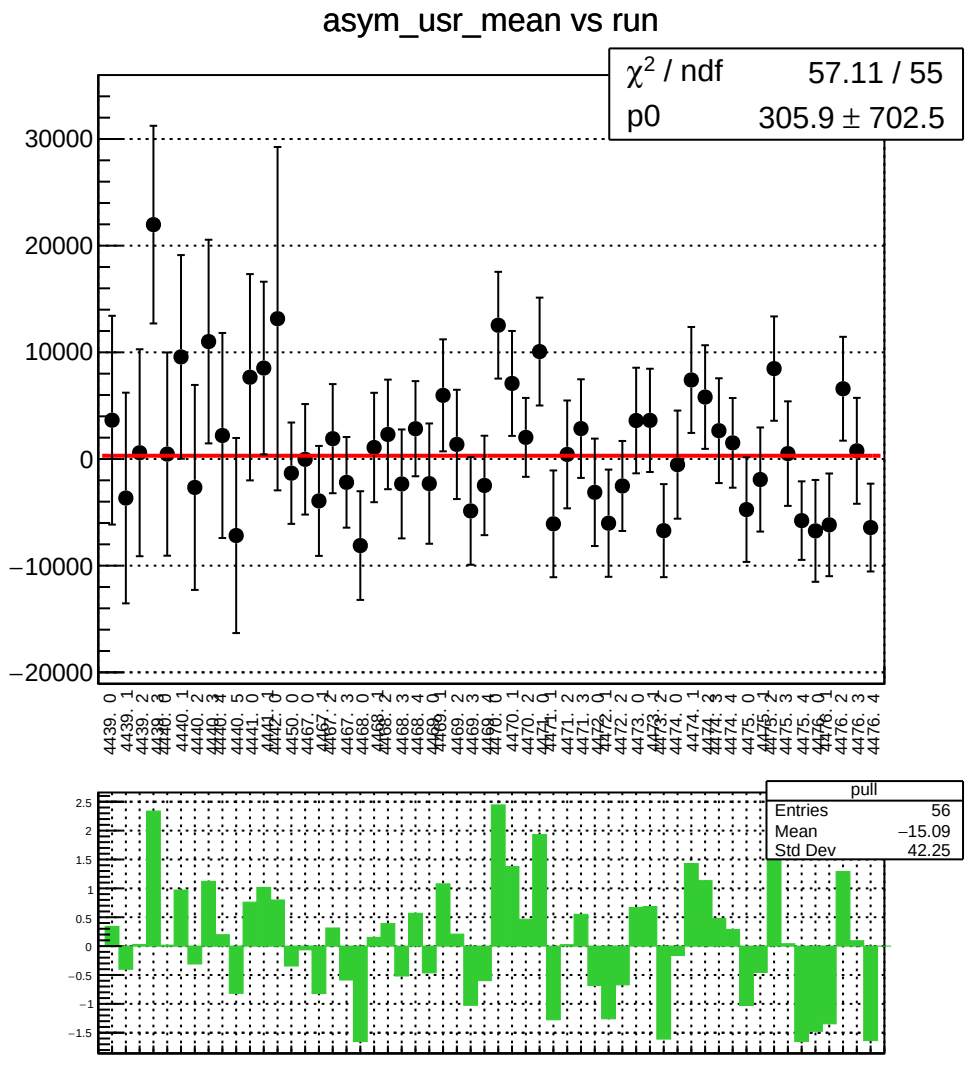

pull1D
Entries 56
Mean 0.02041
Std Dev 0.9889
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

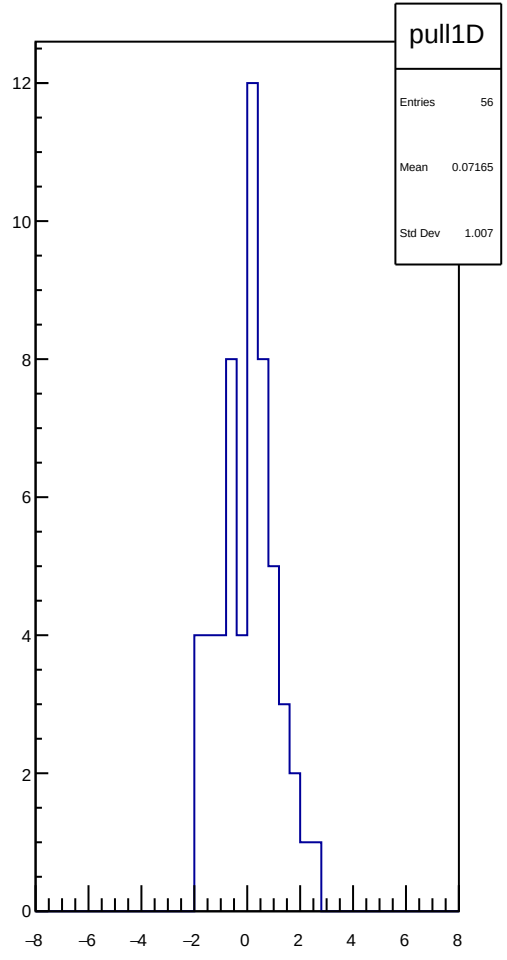

reg_asym_usr_rms vs run
χ² / ndf 100.6 / 55
p0 131.4 ± 0.1261
140
138
136
134
132
130
128

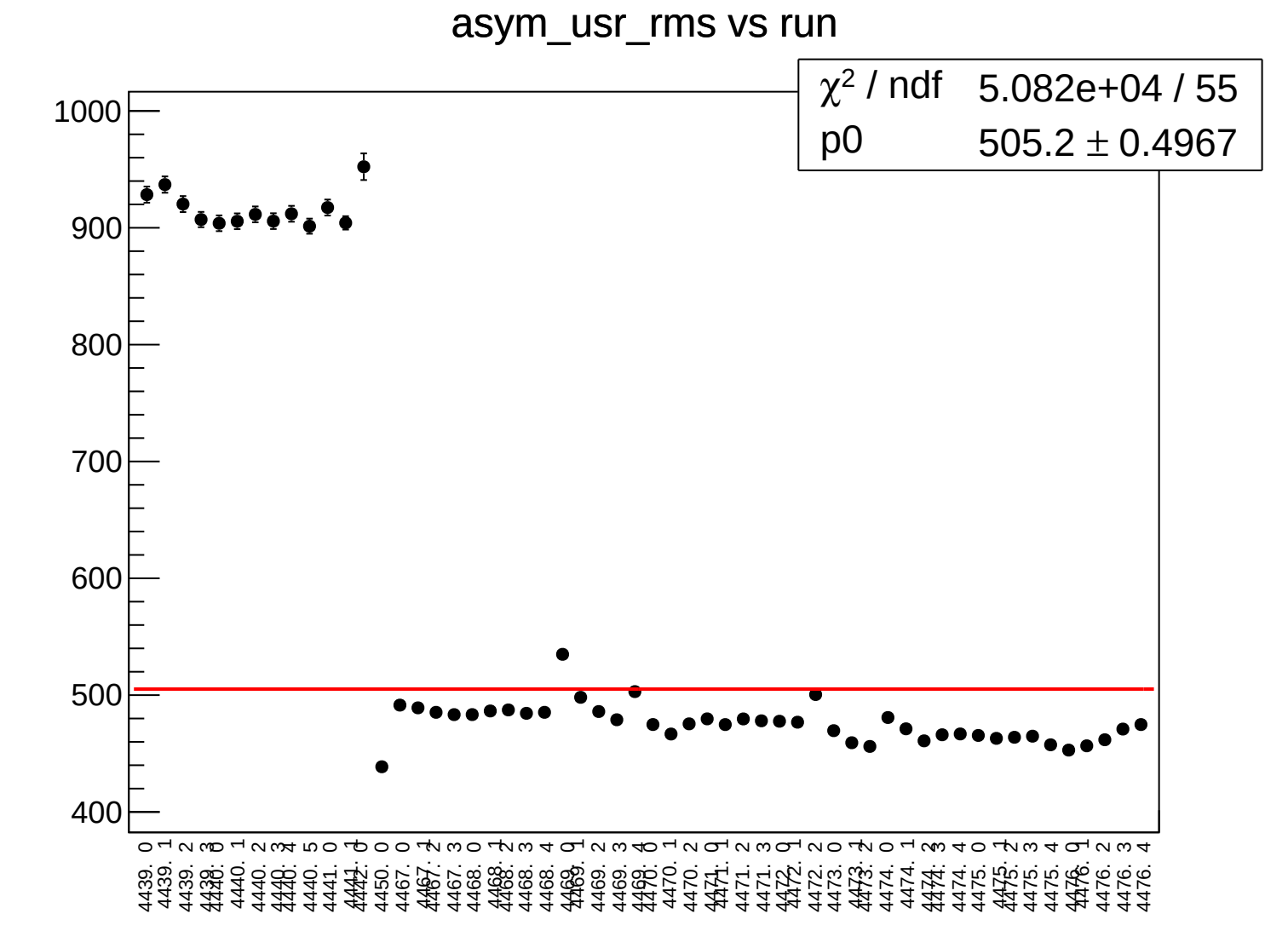

asym_usr_correction_mean vs run
χ² / ndf 63.65 / 55
p0 −848.7 ± 676.4
pull
Entries 56
Mean −19
Std Dev 47.05

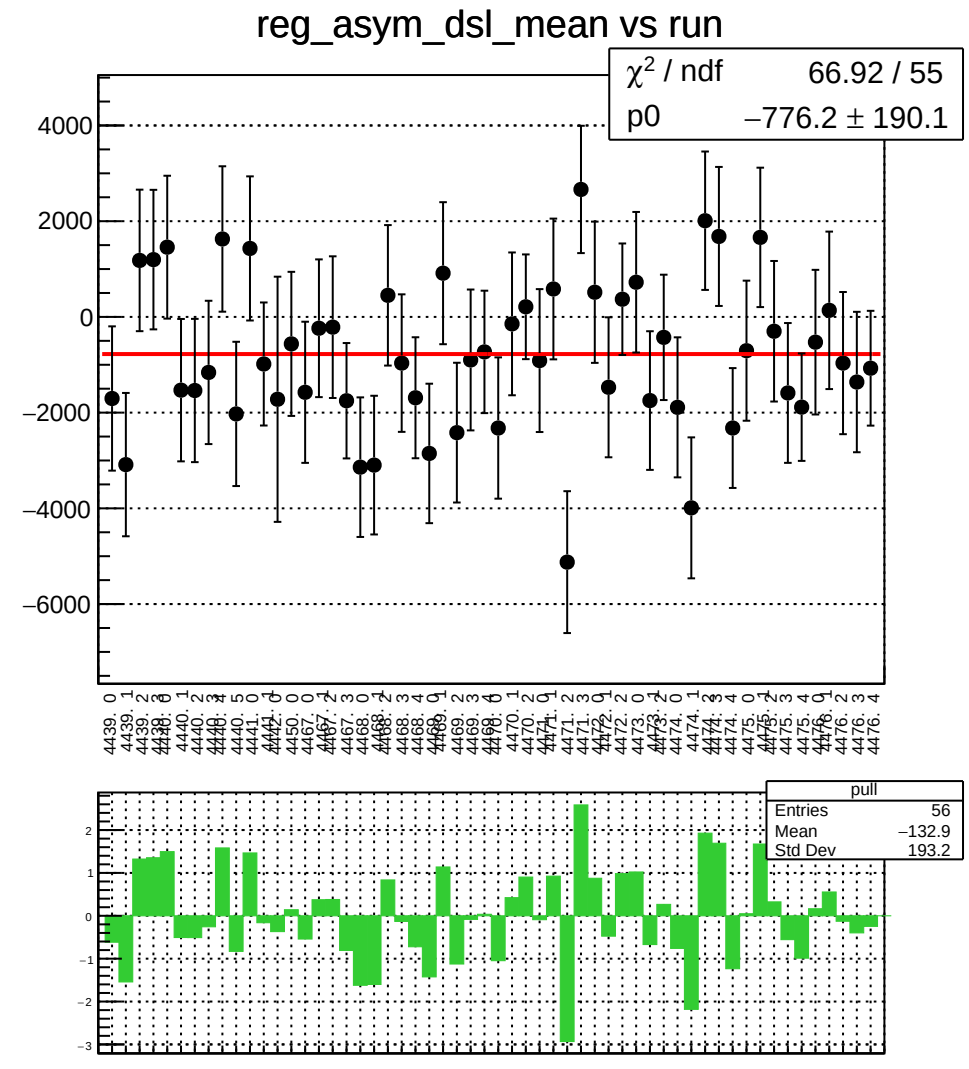

pull1D
Entries 56
Mean −0.07969
Std Dev 1.063

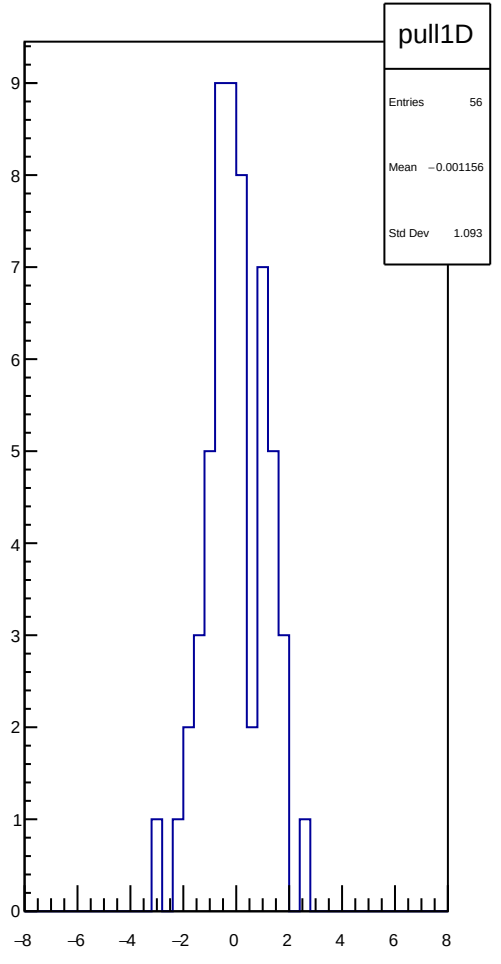

asym_usr_correction_rms vs run
χ² / ndf 5.435e+04 / 55
p0 485.6 ± 0.4783
1000
900
800
700
600
500
400

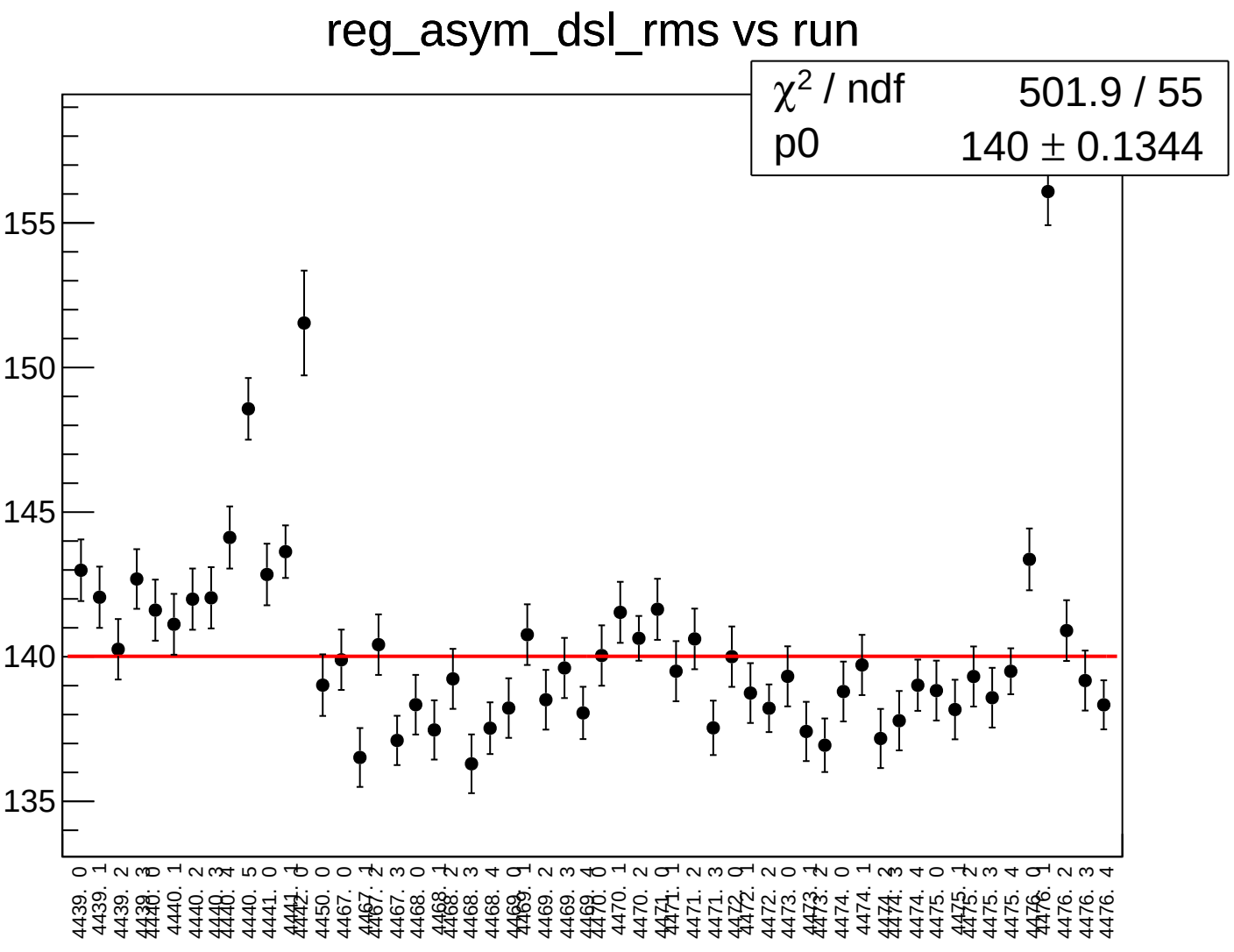

asym_usr_mean vs run
χ² / ndf 57.11 / 55
p0 305.9 ± 702.5
30000
20000
10000
0
−10000
−20000
pull
Entries 56
Mean −15.09
Std Dev 42.25
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

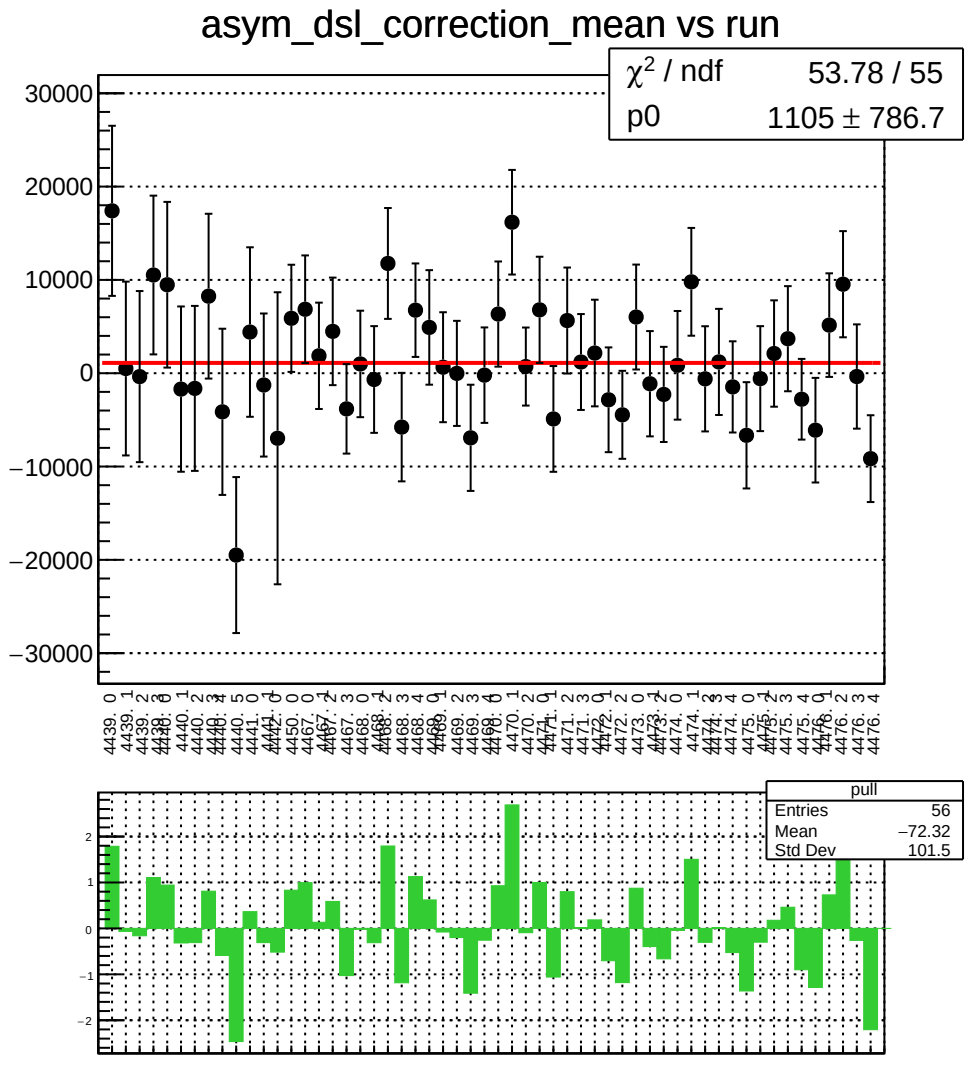

pull1D
Entries 56
Mean 0.07165
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

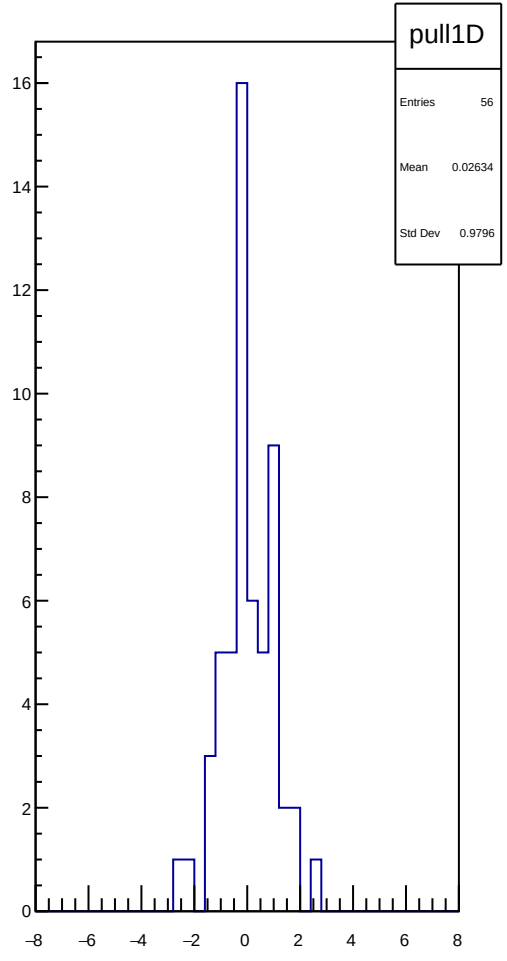

asym_usr_rms vs run
χ² / ndf 5.082e+04 / 55
p0 505.2 ± 0.4967
1000
900
800
700
600
500
400
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

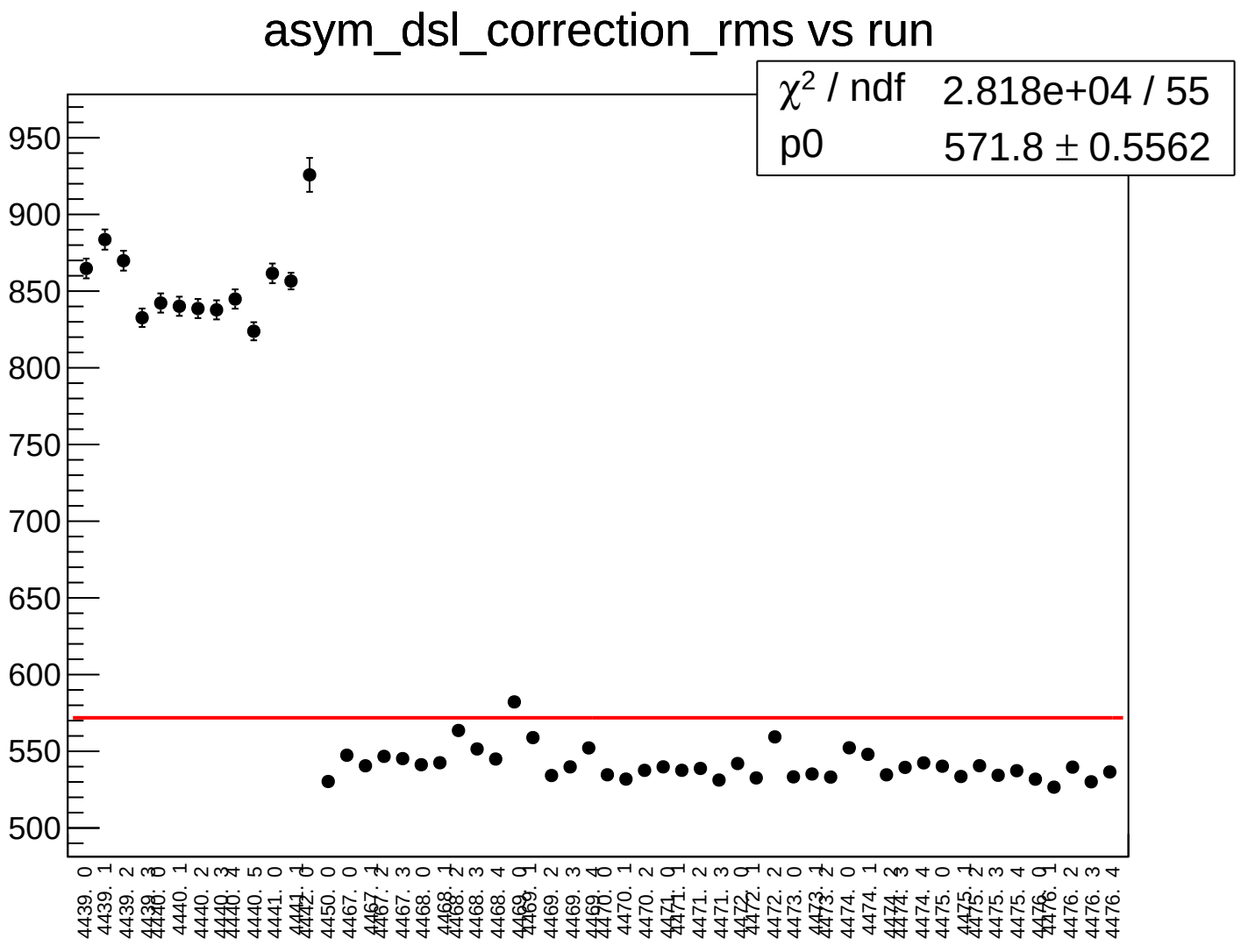

reg_asym_dsl_mean vs run
χ² / ndf 66.92 / 55
p0 −776.2 ± 190.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 56
Mean −132.9
Std Dev 193.2
2
1
0
−1
−2
−3

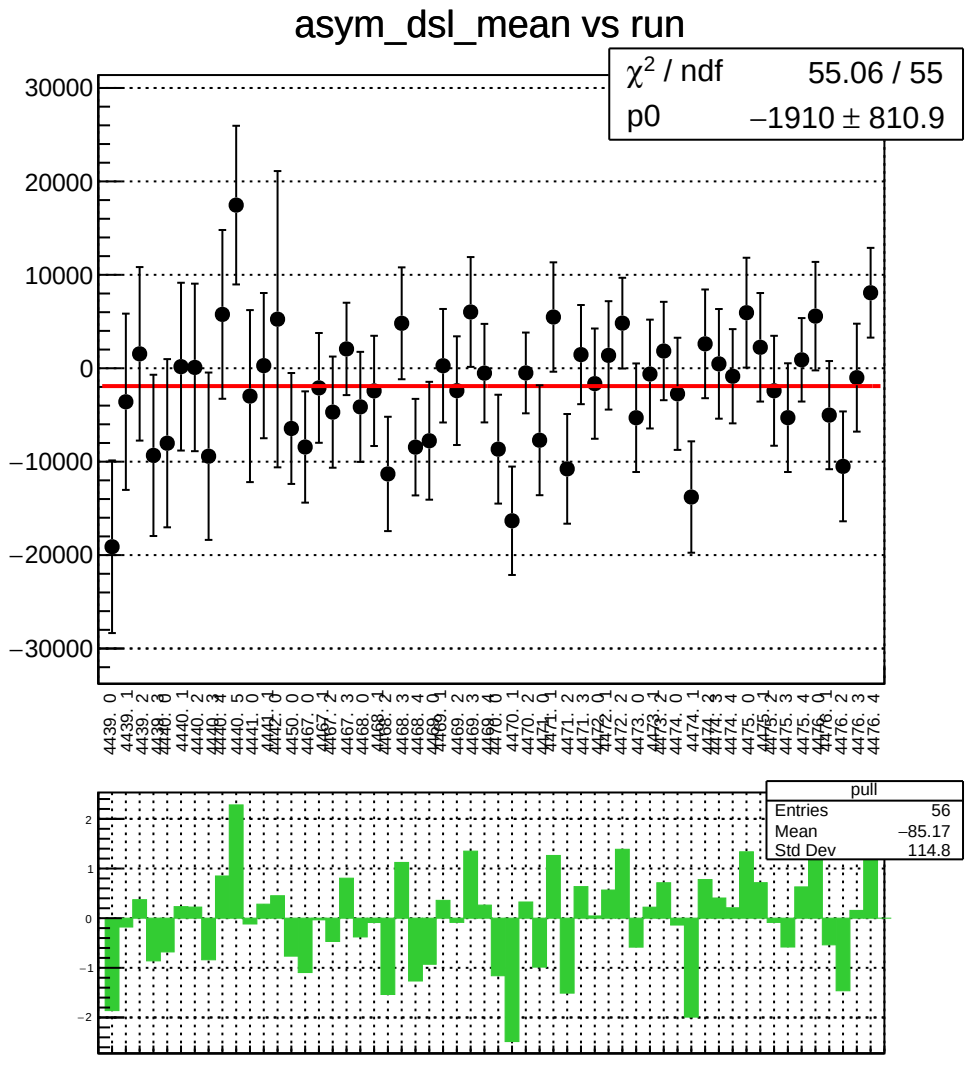

pull1D
Entries 56
Mean −0.001156
Std Dev 1.093
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

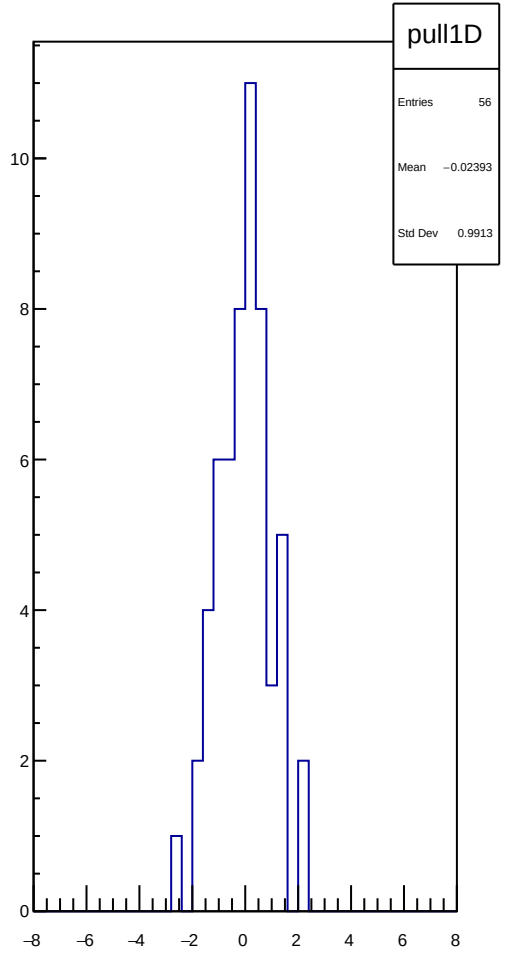

reg_asym_dsl_rms vs run
χ² / ndf 501.9 / 55
p0 140 ± 0.1344
155
150
145
140
135

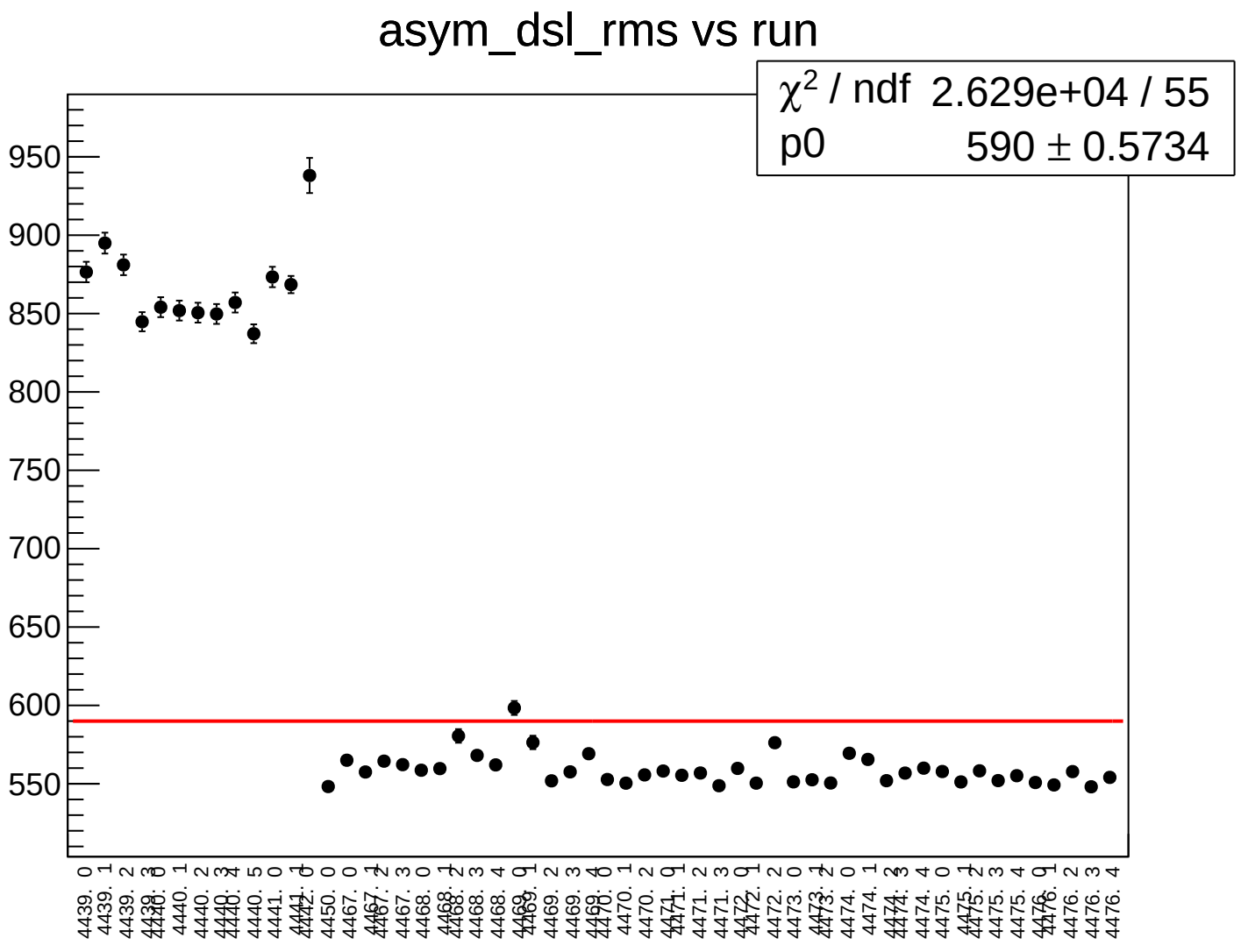

asym_dsl_correction_mean vs run
χ² / ndf 53.78 / 55
p0 1105 ± 786.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 56
Mean −72.32
Std Dev 101.5
2
1
0
−1
−2

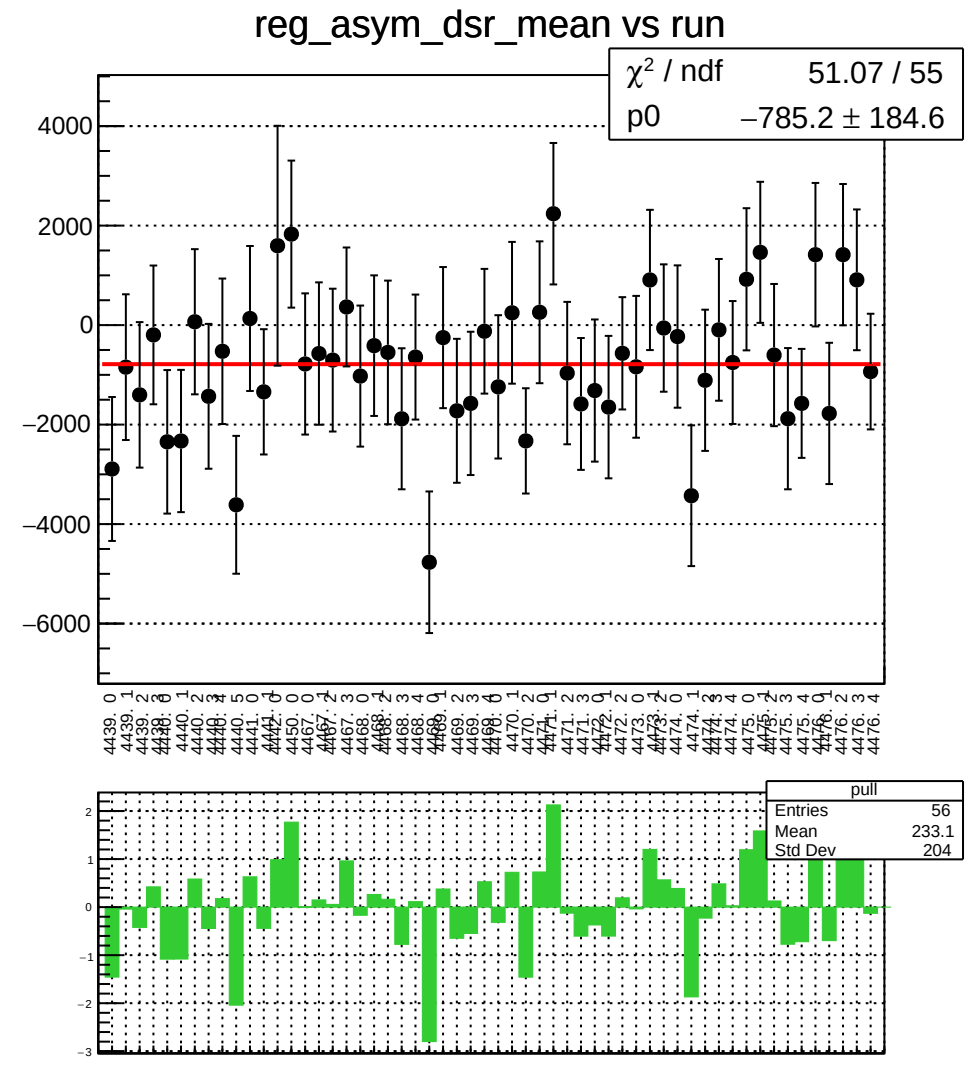

pull1D
Entries 56
Mean 0.02634
Std Dev 0.9796
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

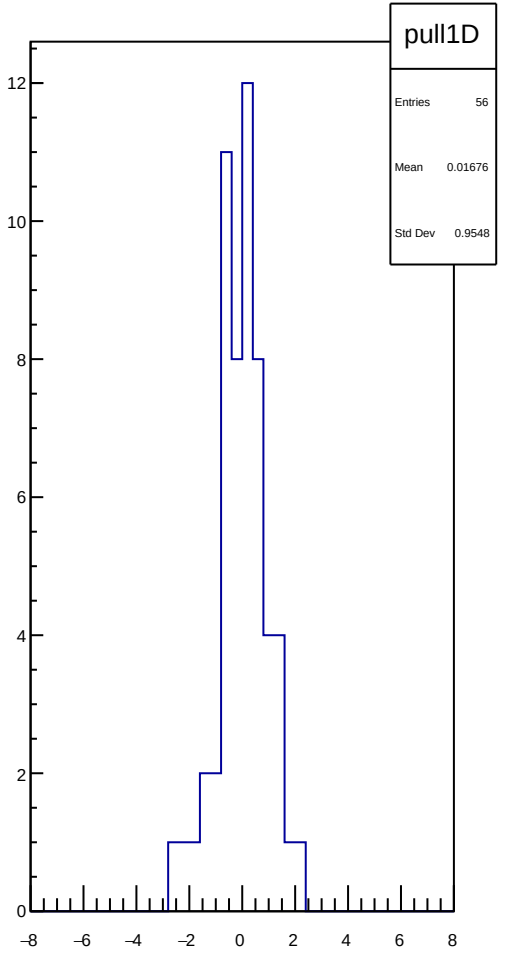

asym_dsl_correction_rms vs run
χ² / ndf 2.818e+04 / 55
p0 571.8 ± 0.5562
950
900
850
800
750
700
650
600
550
500

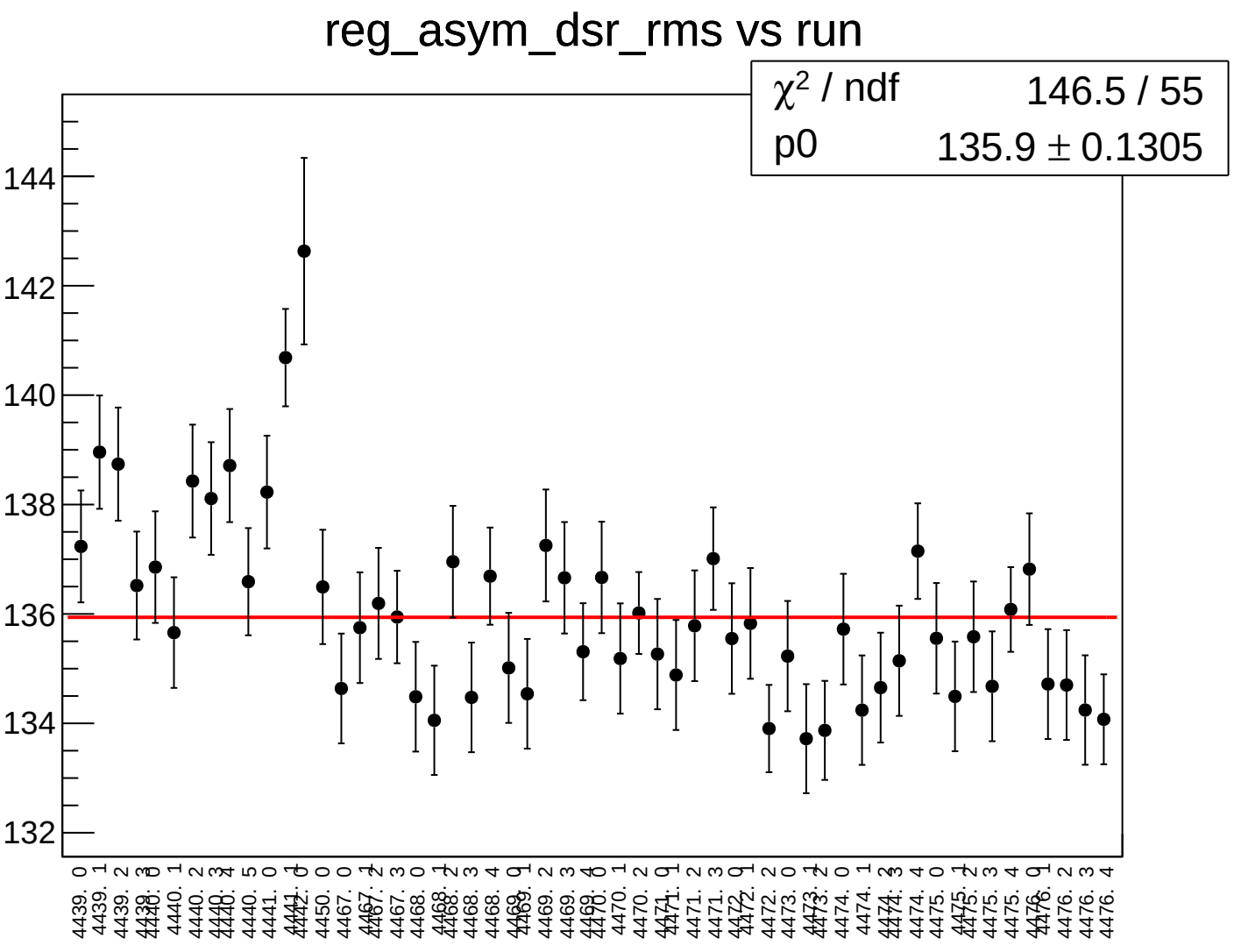

asym_dsl_mean vs run
χ² / ndf 55.06 / 55
p0 −1910 ± 810.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 56
Mean −85.17
Std Dev 114.8
2
1
0
−1
−2

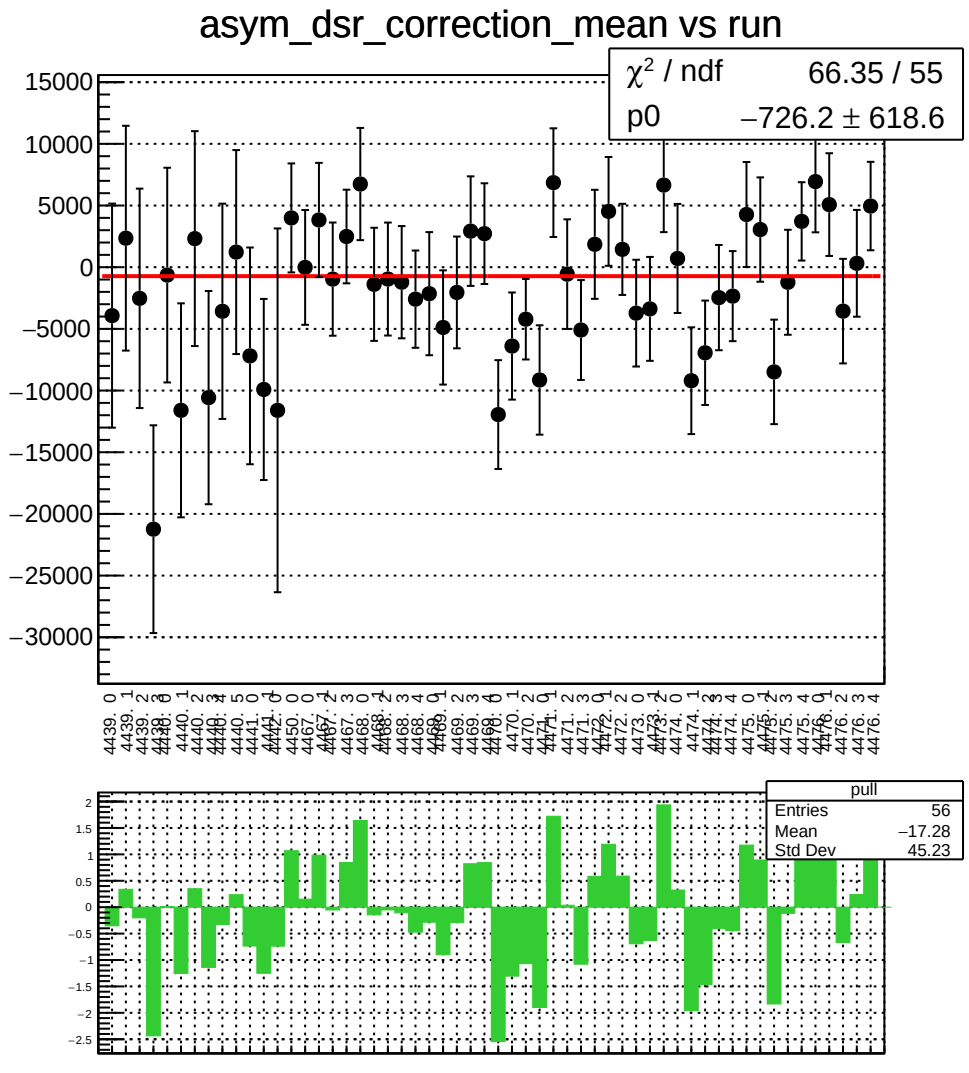

pull1D
Entries 56
Mean −0.02393
Std Dev 0.9913
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

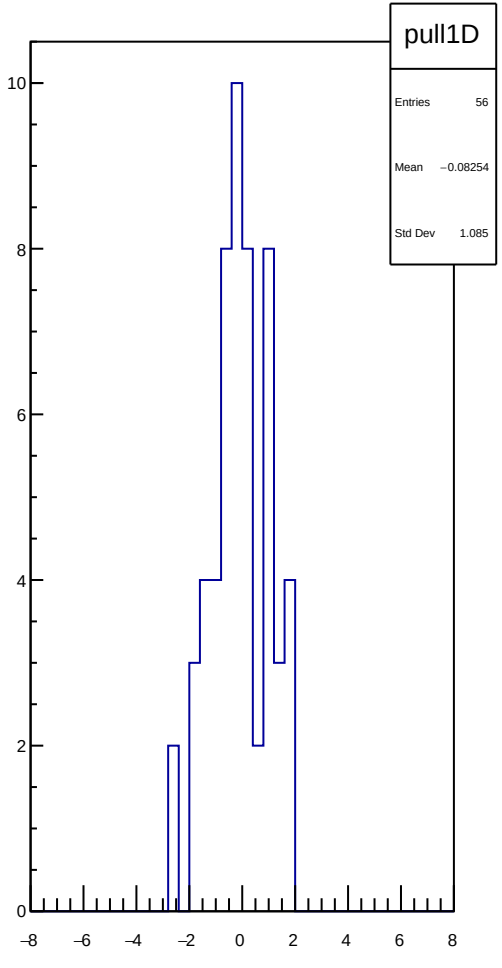

asym_dsl_rms vs run
χ² / ndf 2.629e+04 / 55
p0 590 ± 0.5734
950
900
850
800
750
700
650
600
550

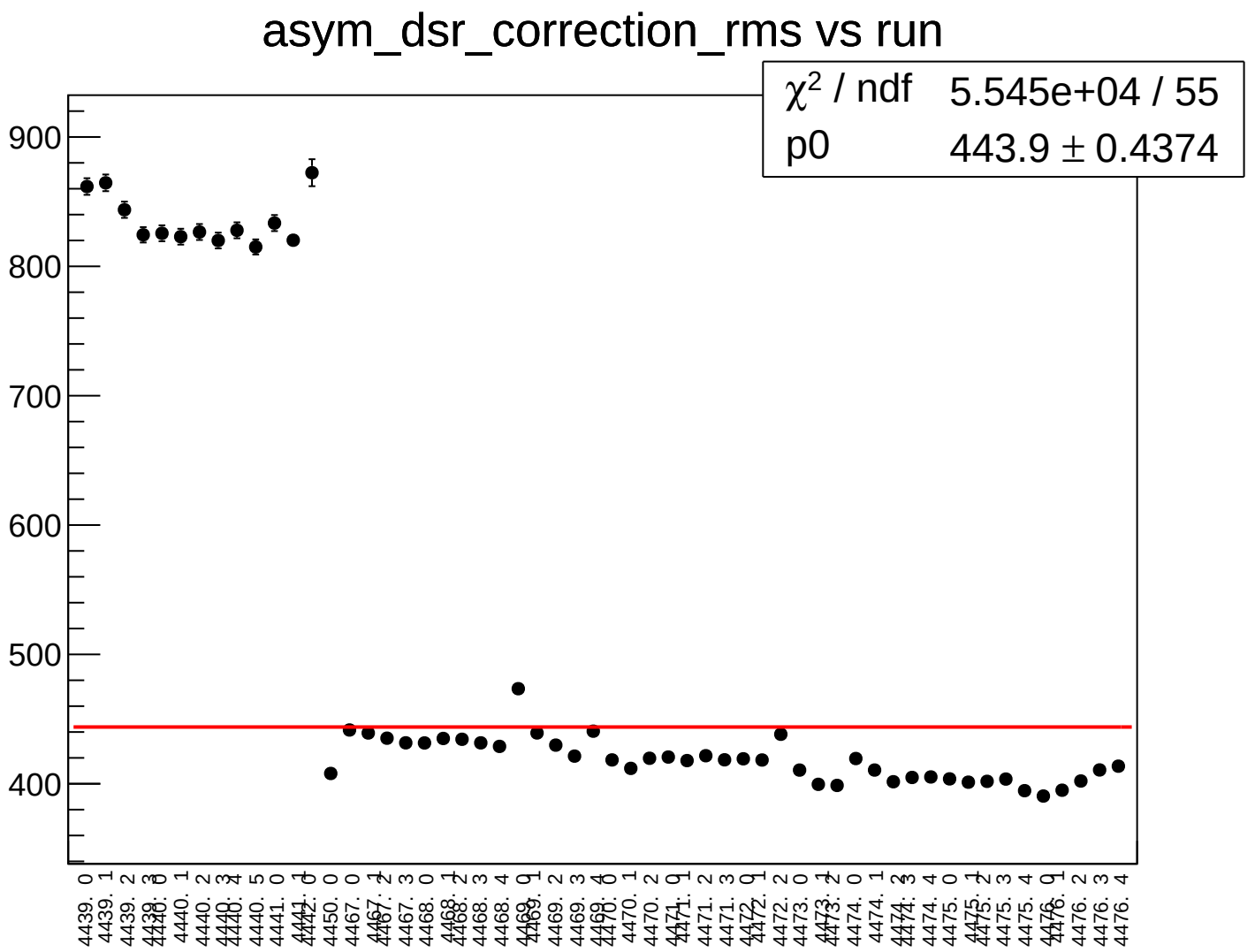

reg_asym_dsr_mean vs run
χ² / ndf 51.07 / 55
p0 −785.2 ± 184.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 56
Mean 233.1
Std Dev 204
2
1
0
−1
−2
−3

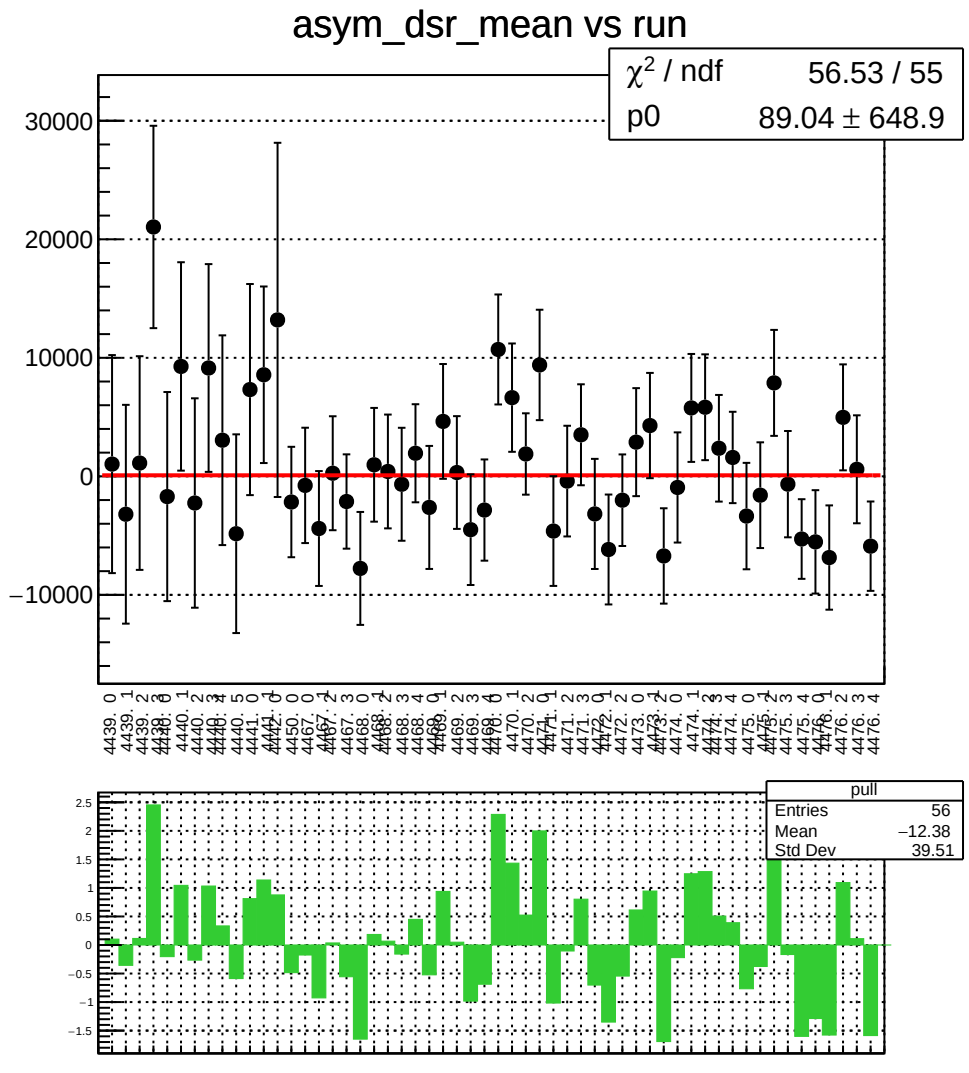

pull1D
Entries 56
Mean 0.01676
Std Dev 0.9548
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

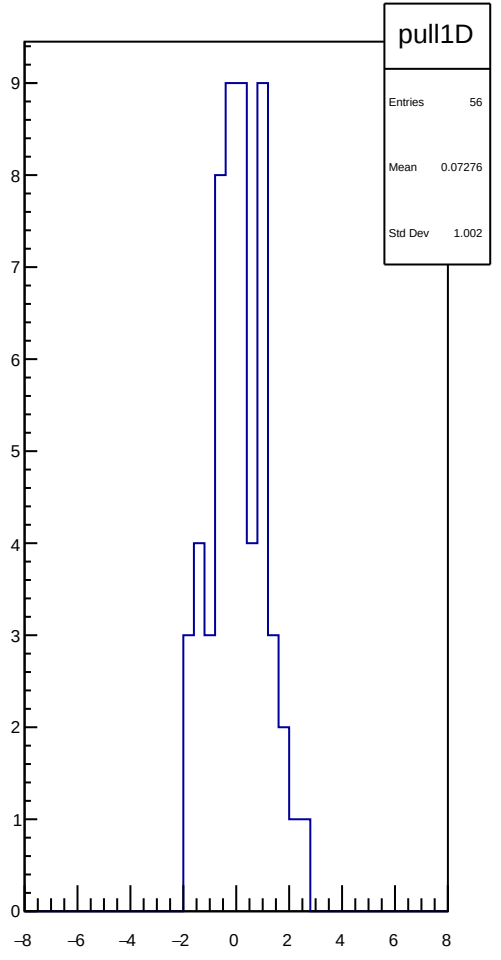

reg_asym_dsr_rms vs run
χ² / ndf 146.5 / 55
p0 135.9 ± 0.1305
144
142
140
138
136
134
132

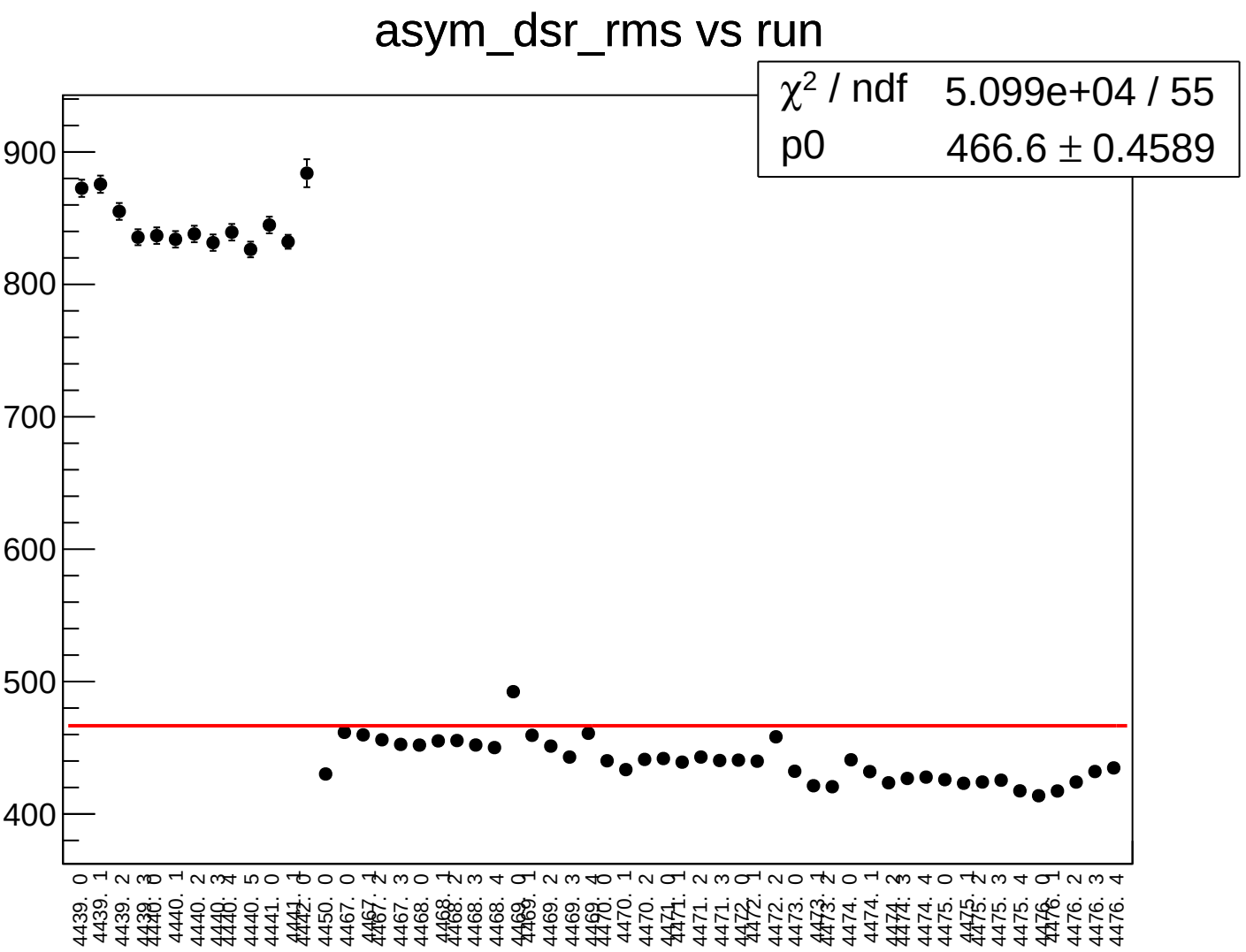

asym_dsr_correction_mean vs run
χ² / ndf 66.35 / 55
p0 −726.2 ± 618.6
pull
Entries 56
Mean −17.28
Std Dev 45.23

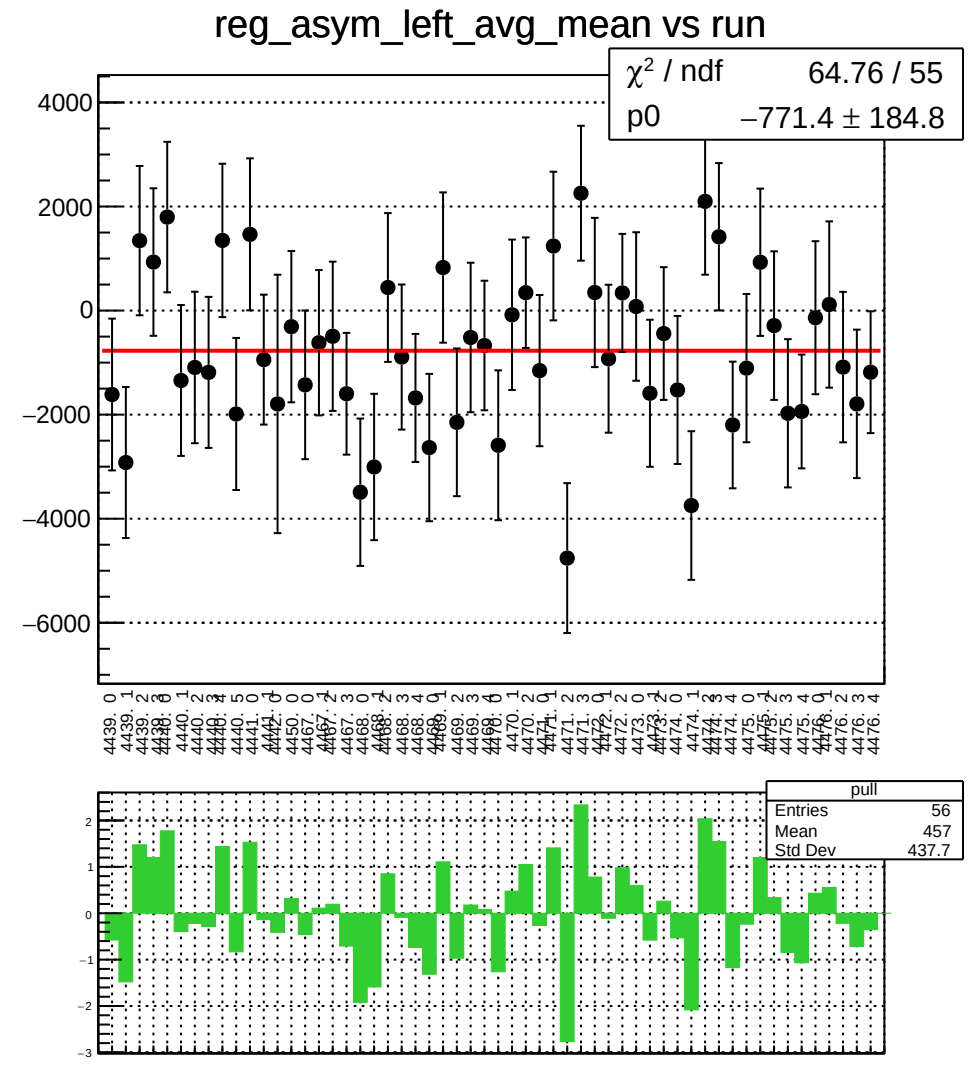

pull1D
Entries 56
Mean −0.08254
Std Dev 1.085

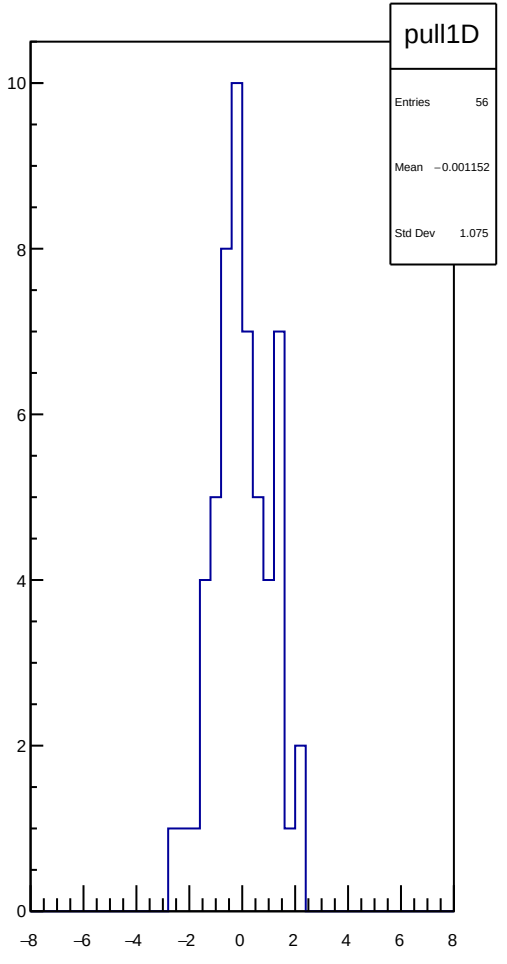

asym_dsr_correction_rms vs run
χ² / ndf 5.545e+04 / 55
p0 443.9 ± 0.4374
900
800
700
600
500
400

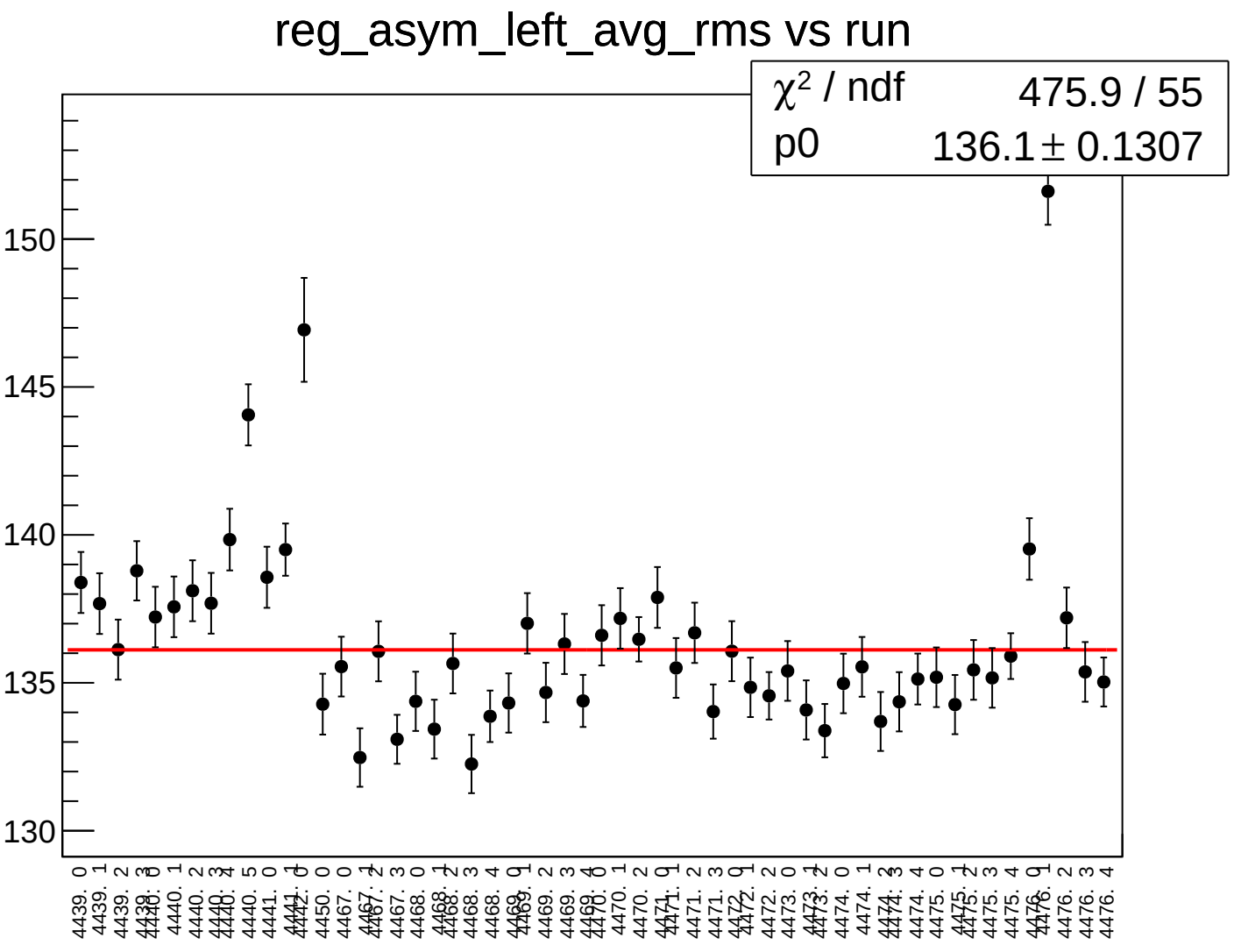

asym_dsr_mean vs run
χ² / ndf 56.53 / 55
p0 89.04 ± 648.9
30000
20000
10000
0
−10000
pull
Entries 56
Mean −12.38
Std Dev 39.51
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

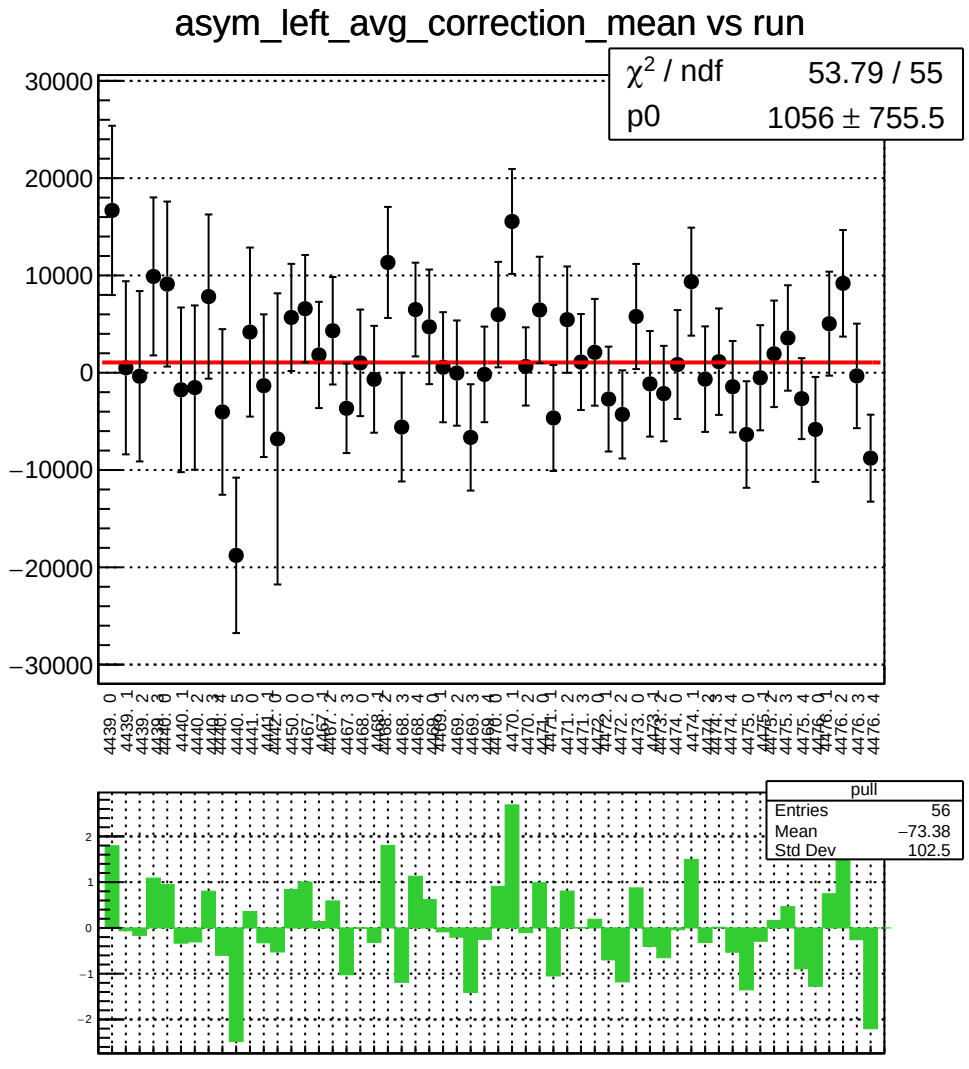

pull1D
Entries 56
Mean 0.07276
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

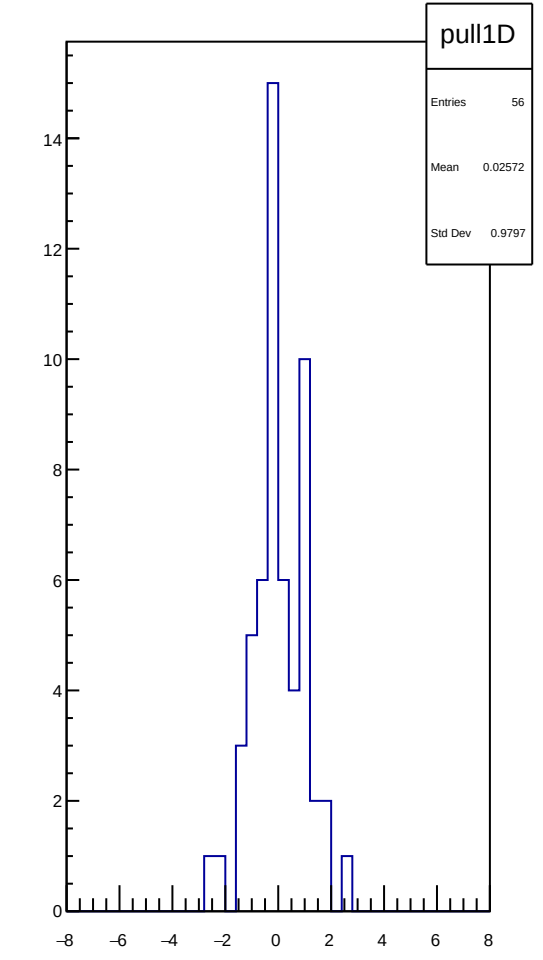

asym_dsr_rms vs run
χ² / ndf 5.099e+04 / 55
p0 466.6 ± 0.4589
900
800
700
600
500
400

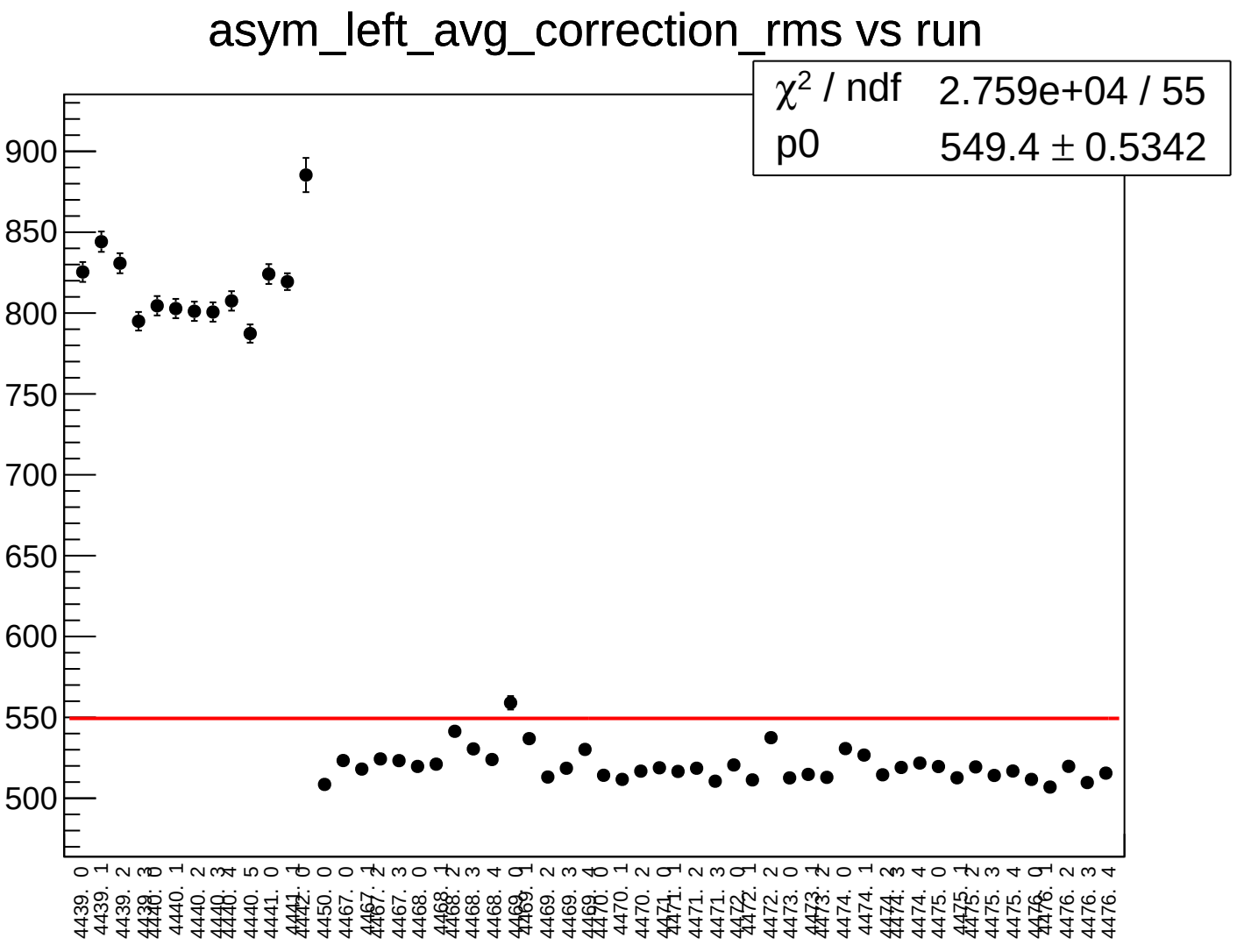

reg_asym_left_avg_mean vs run
χ² / ndf 64.76 / 55
p0 −771.4 ± 184.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 56
Mean 457
Std Dev 437.7
2
1
0
−1
−2
−3

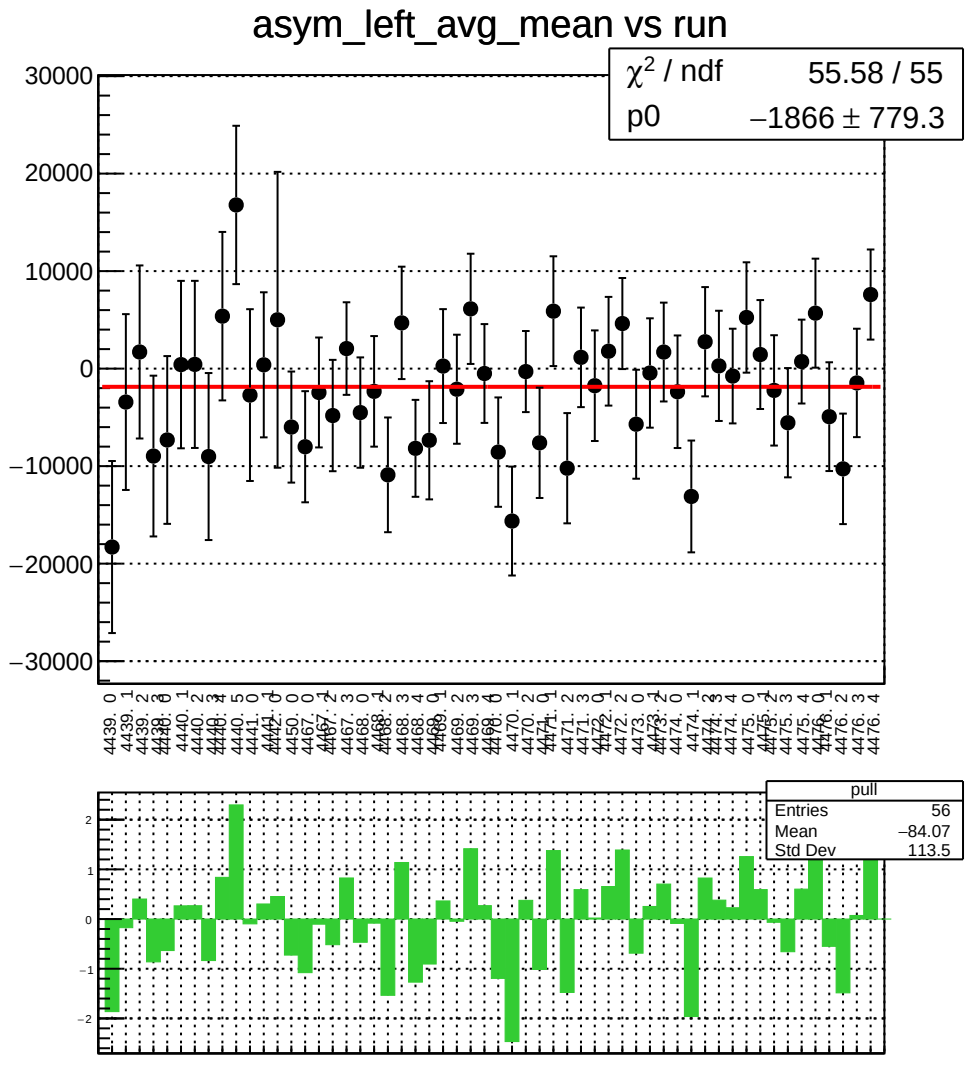

pull1D
Entries 56
Mean −0.001152
Std Dev 1.075
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

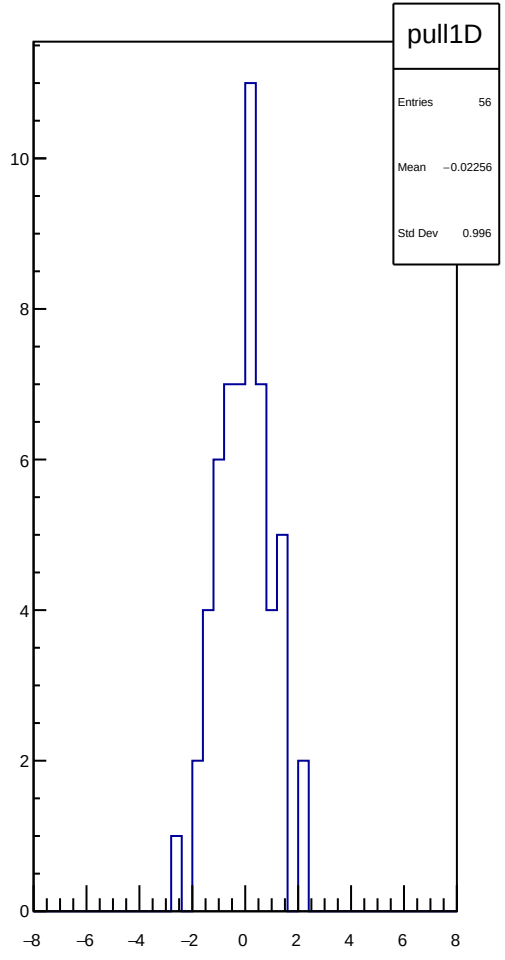

reg_asym_left_avg_rms vs run
χ² / ndf 475.9 / 55
p0 136.1 ± 0.1307
150
145
140
135
130

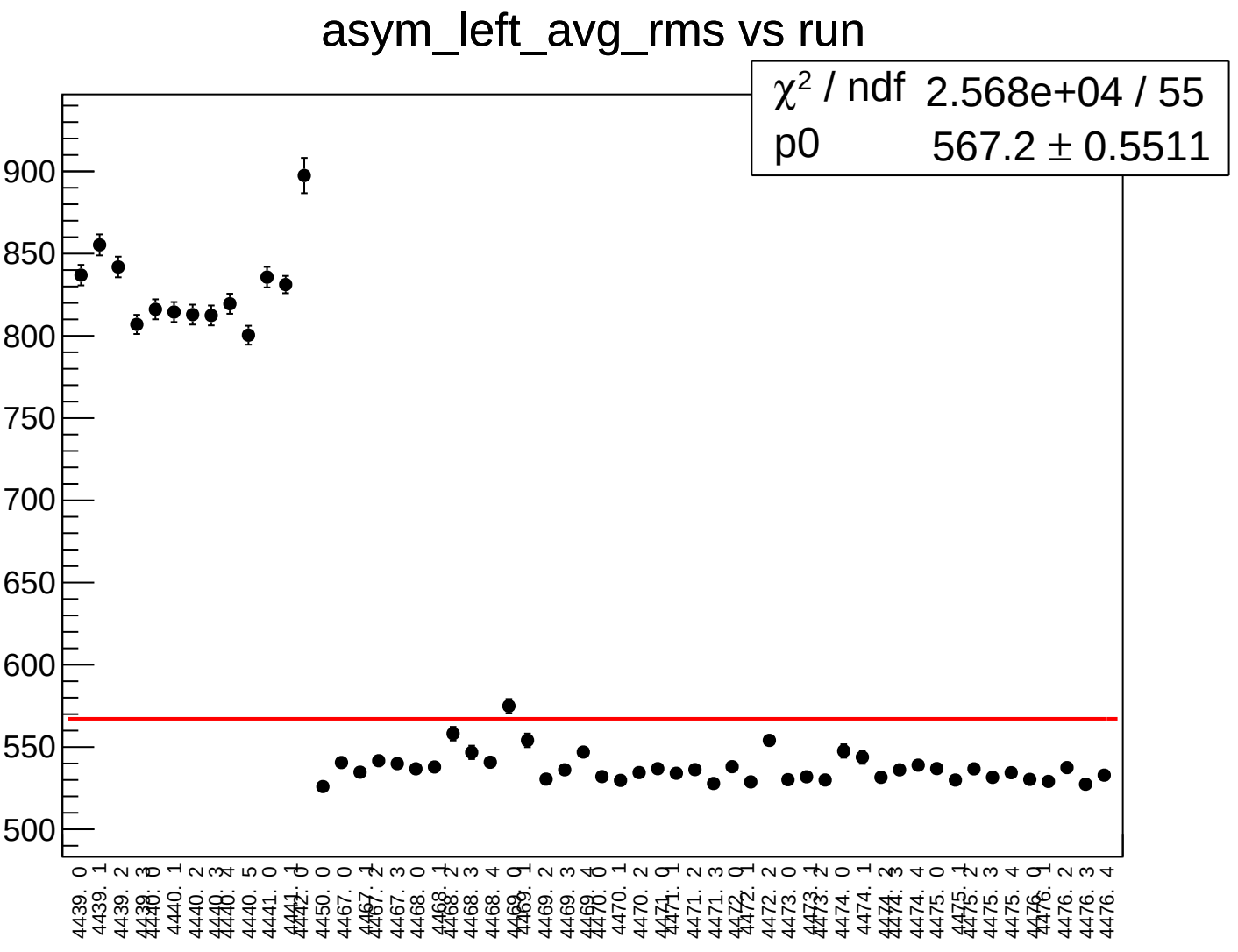

asym_left_avg_correction_mean vs run
χ² / ndf 53.79 / 55
p0 1056 ± 755.5
pull
Entries 56
Mean −73.38
Std Dev 102.5

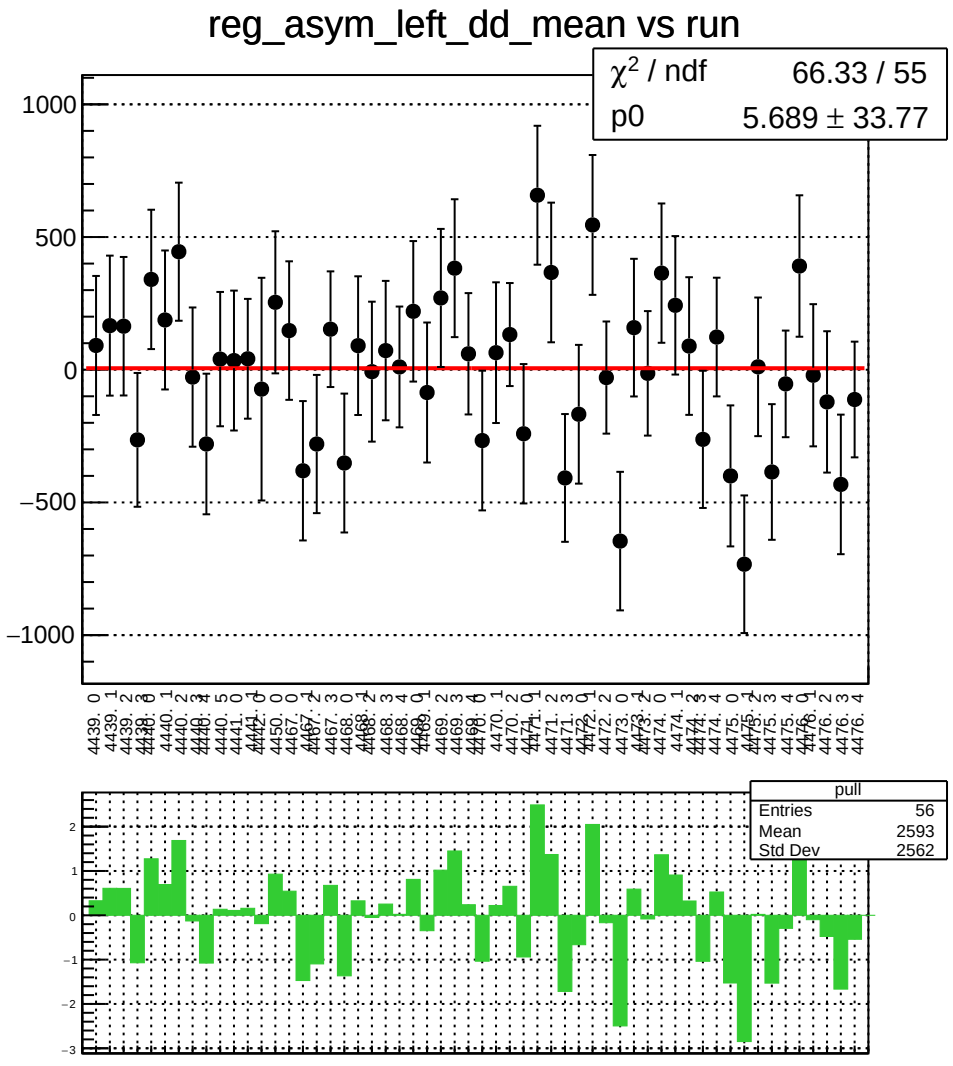

pull1D
Entries 56
Mean 0.02572
Std Dev 0.9797

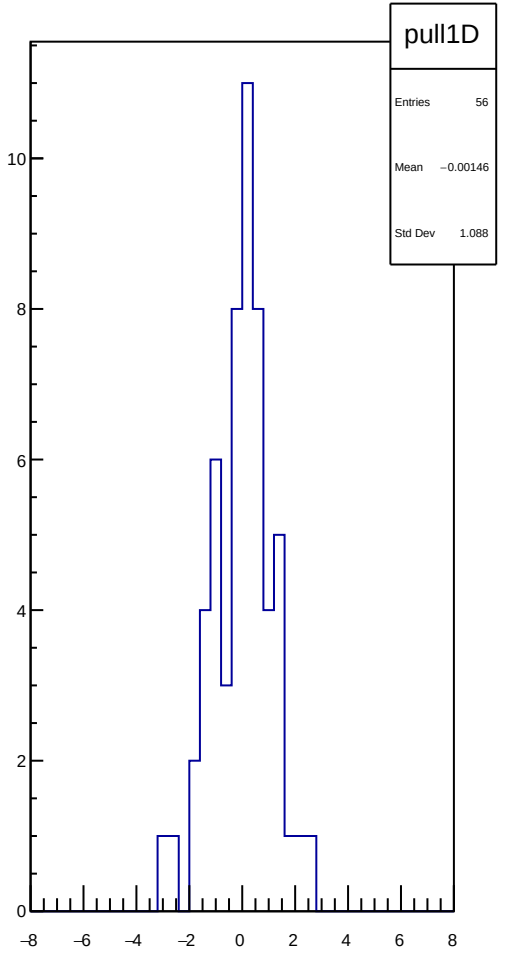

asym_left_avg_correction_rms vs run
χ² / ndf 2.759e+04 / 55
p0 549.4 ± 0.5342
900
850
800
750
700
650
600
550
500

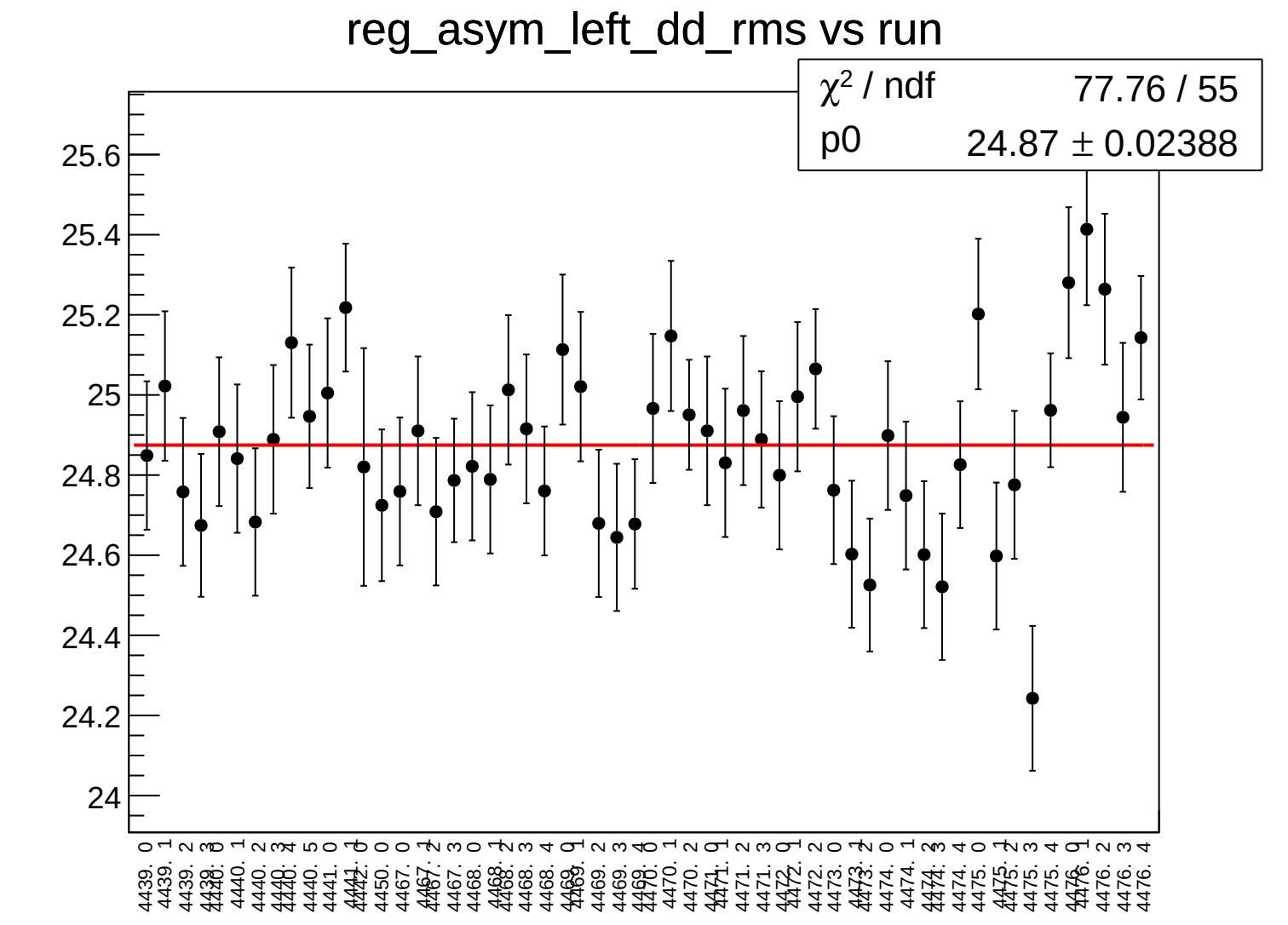

asym_left_avg_mean vs run
χ^2 / ndf 55.58 / 55
p0 −1866 ± 779.3
pull
Entries 56
Mean −84.07
Std Dev 113.5

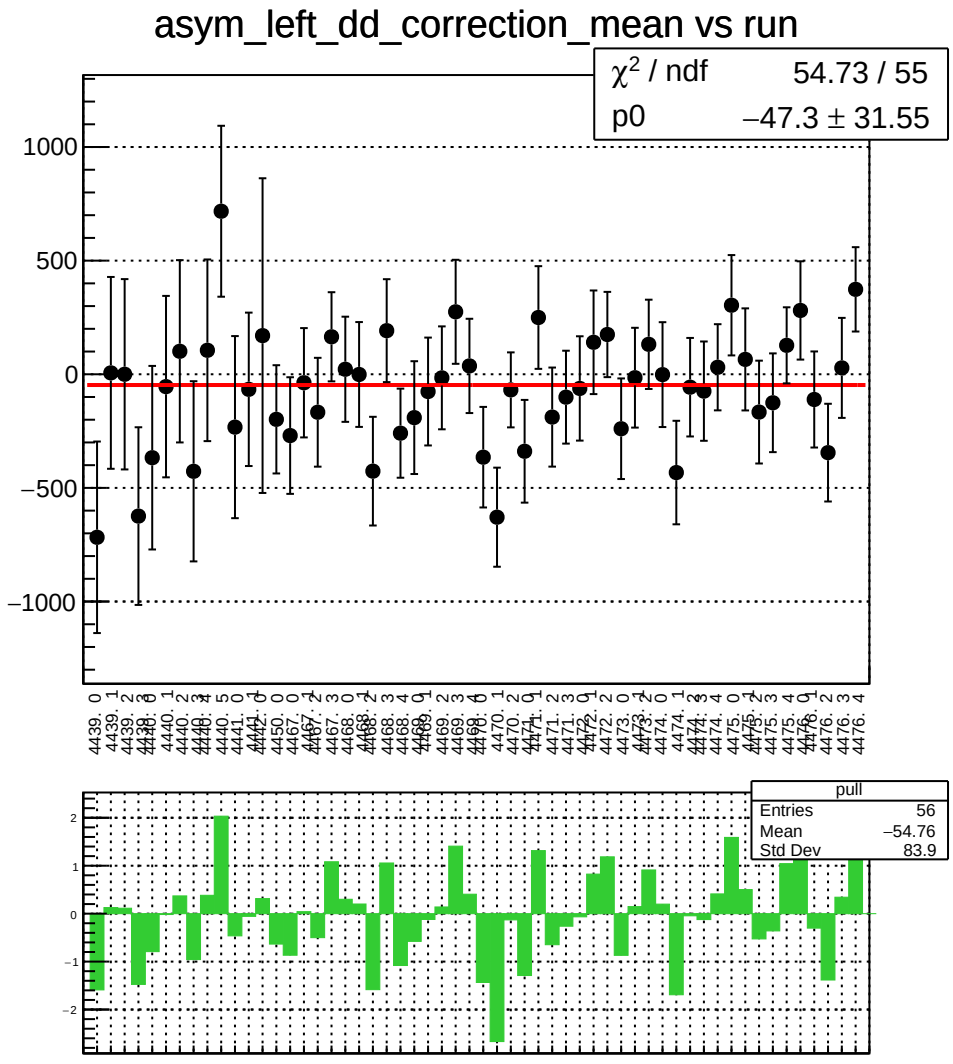

pull1D
Entries 56
Mean −0.02256
Std Dev 0.996

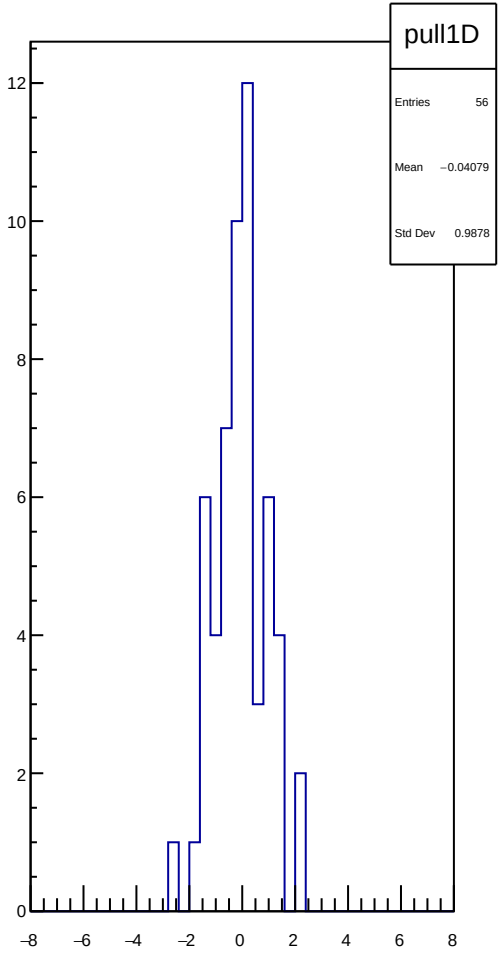

asym_left_avg_rms vs run
χ² / ndf 2.568e+04 / 55
p0 567.2 ± 0.5511
900
850
800
750
700
650
600
550
500

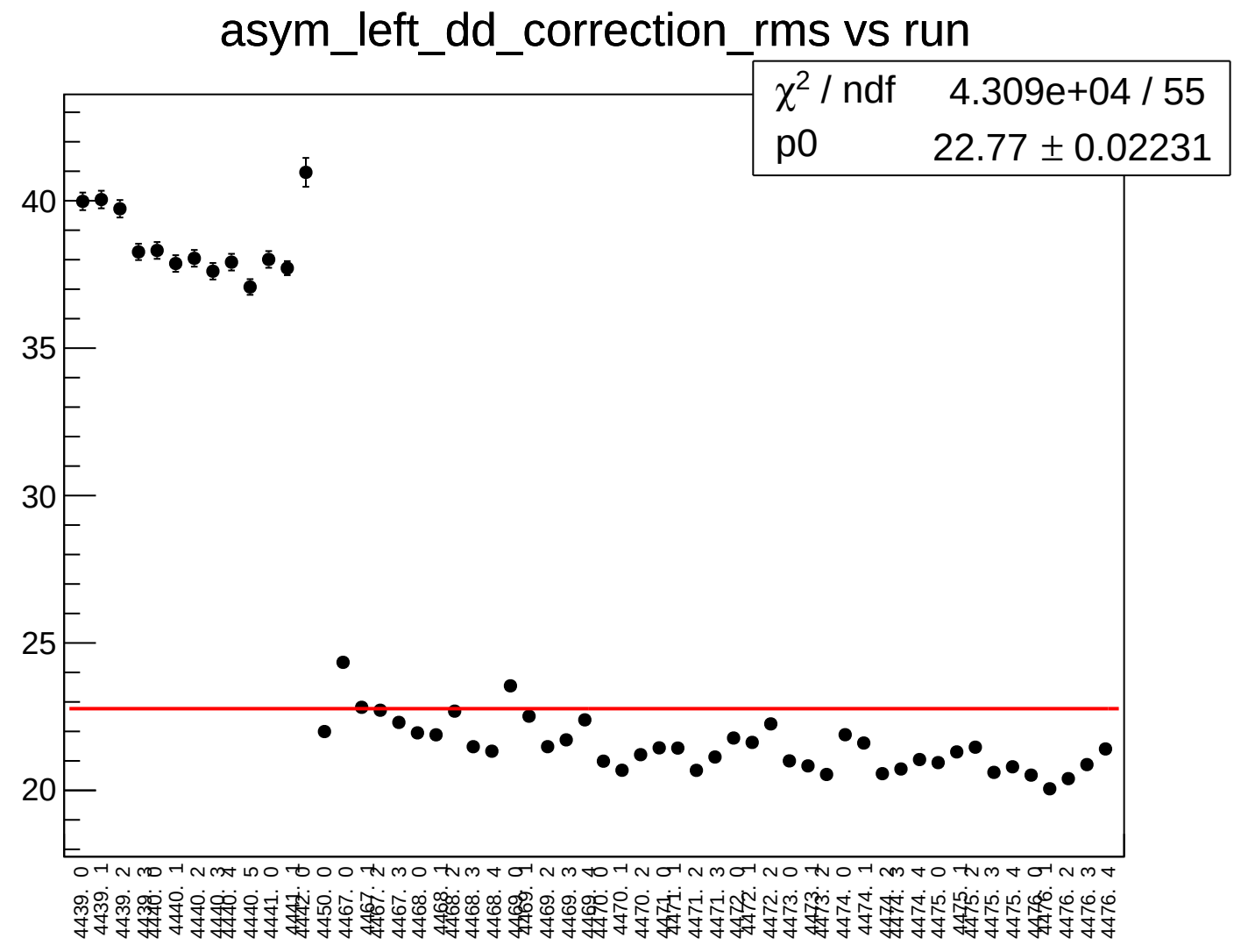

reg_asym_left_dd_mean vs run
χ² / ndf 66.33 / 55
p0 5.689 ± 33.77
pull
Entries 56
Mean 2593
Std Dev 2562

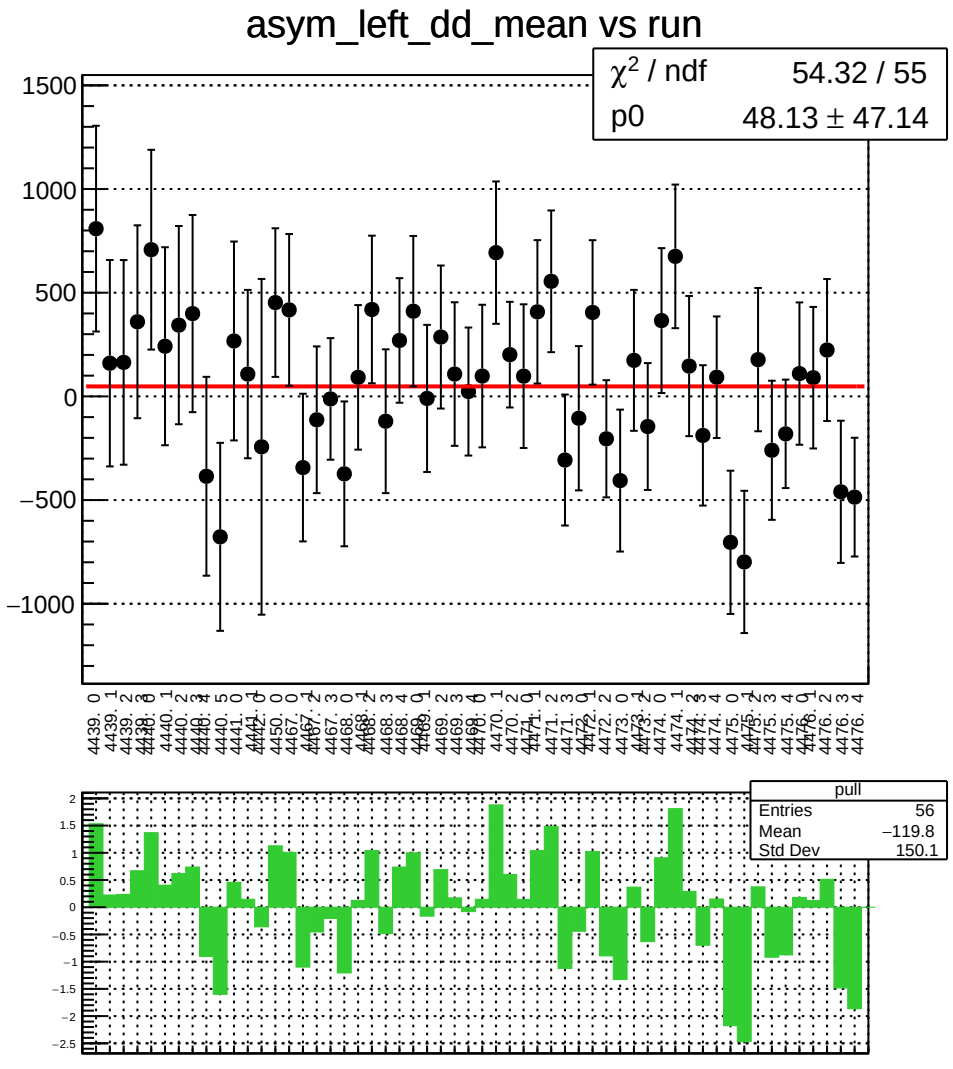

pull1D
Entries 56
Mean −0.00146
Std Dev 1.088

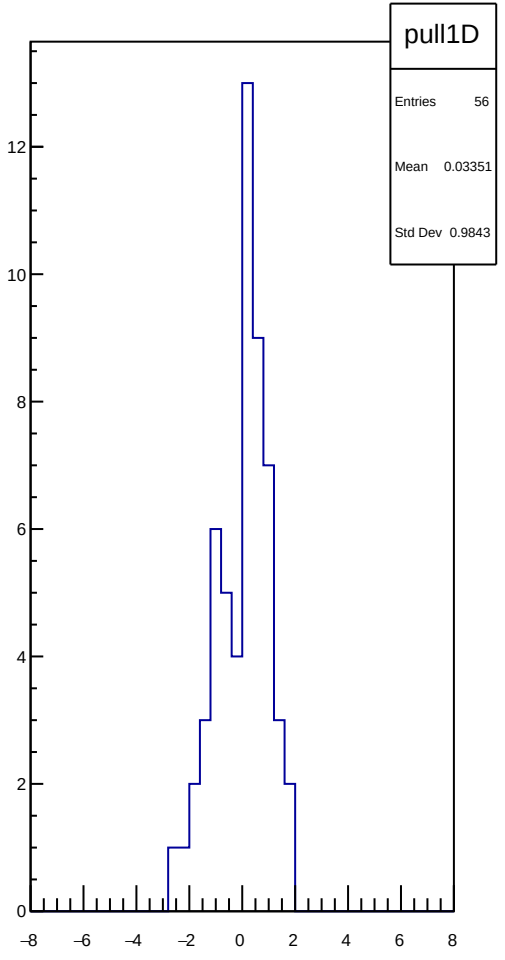

reg_asym_left_dd_rms vs run
χ² / ndf 77.76 / 55
p0 24.87 ± 0.02388
25.6
25.4
25.2
25
24.8
24.6
24.4
24.2
24

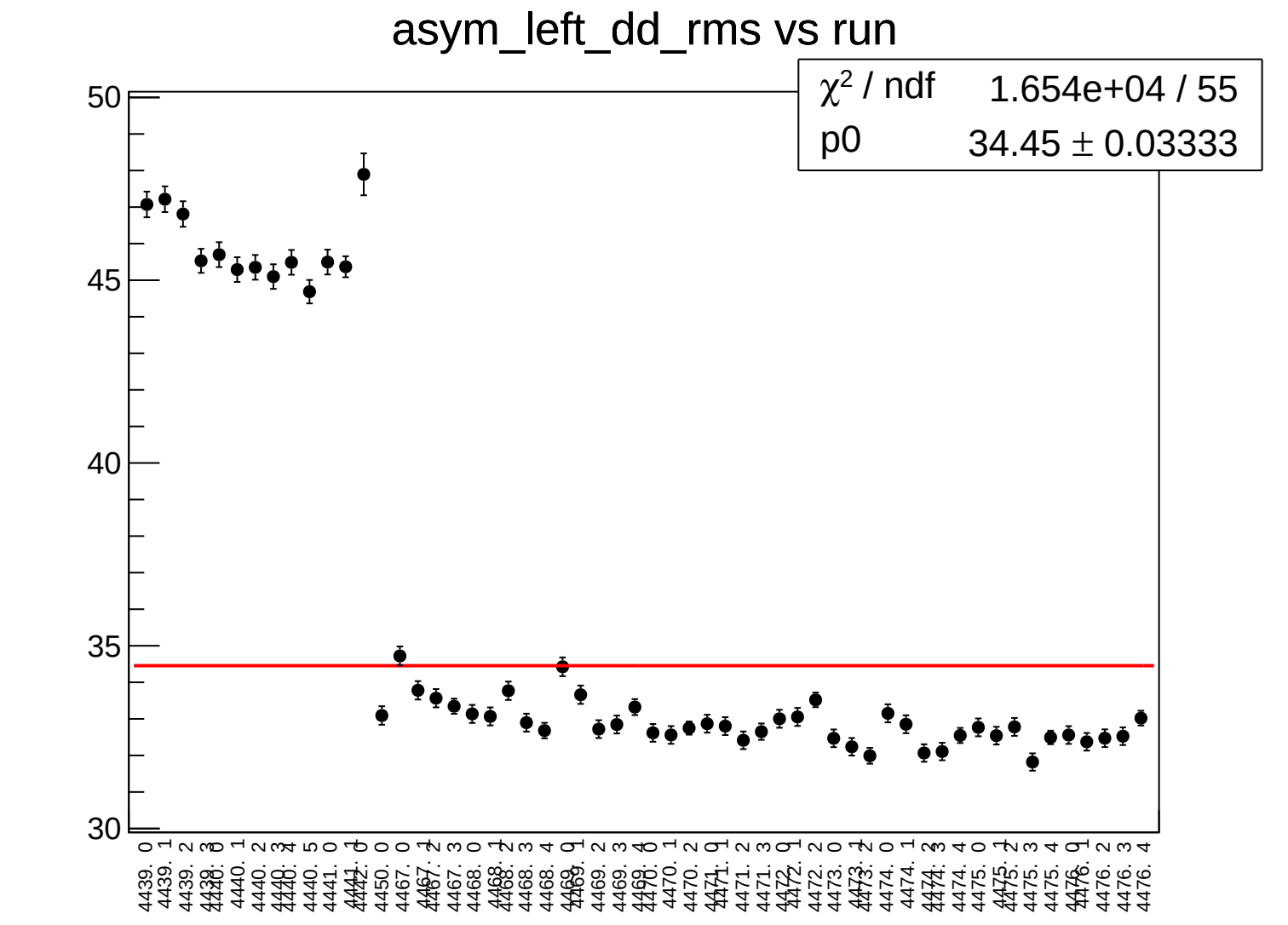

asym_left_dd_correction_mean vs run
χ² / ndf 54.73 / 55
p0 −47.3 ± 31.55
1000
500
0
−500
−1000
pull
Entries 56
Mean −54.76
Std Dev 83.9
2
1
0
−1

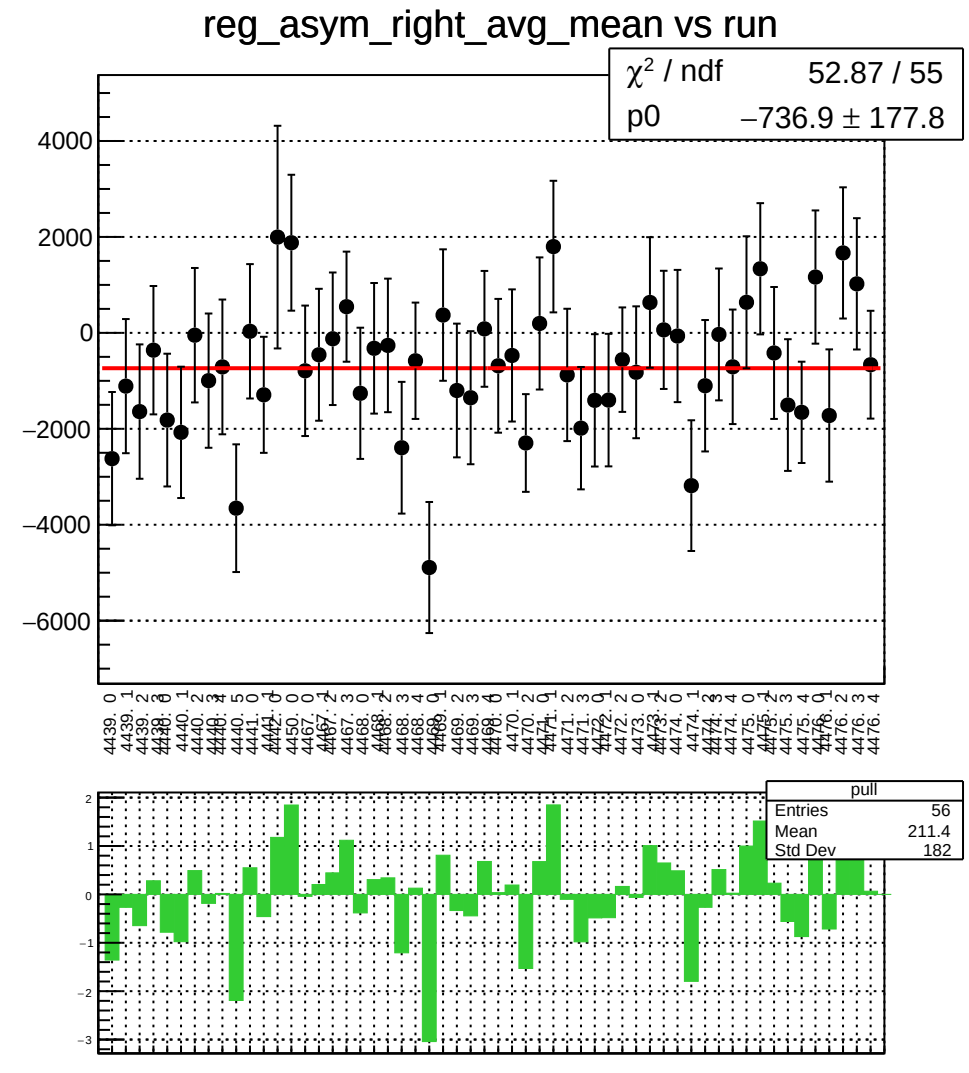

pull1D
Entries 56
Mean −0.04079
Std Dev 0.9878
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

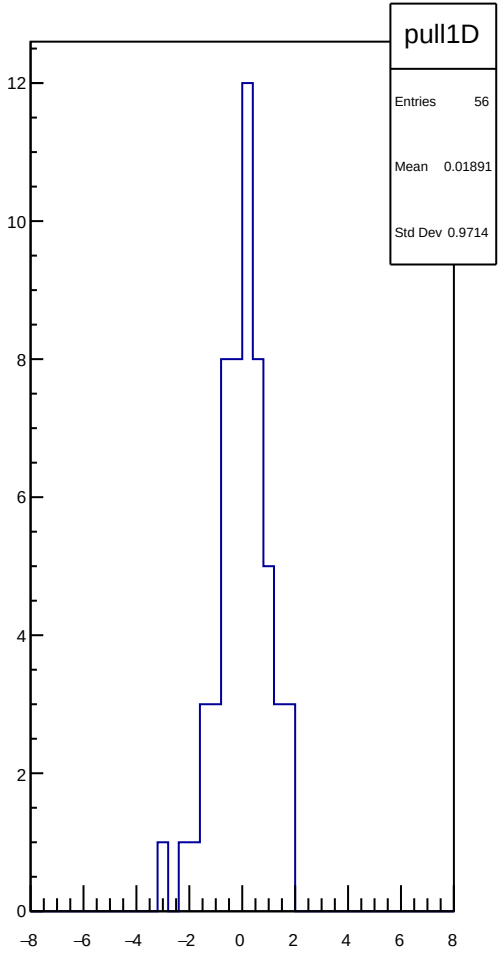

asym_left_dd_correction_rms vs run
χ^2 / ndf 4.309e+04 / 55
p0 22.77 ± 0.02231
40
35
30
25
20

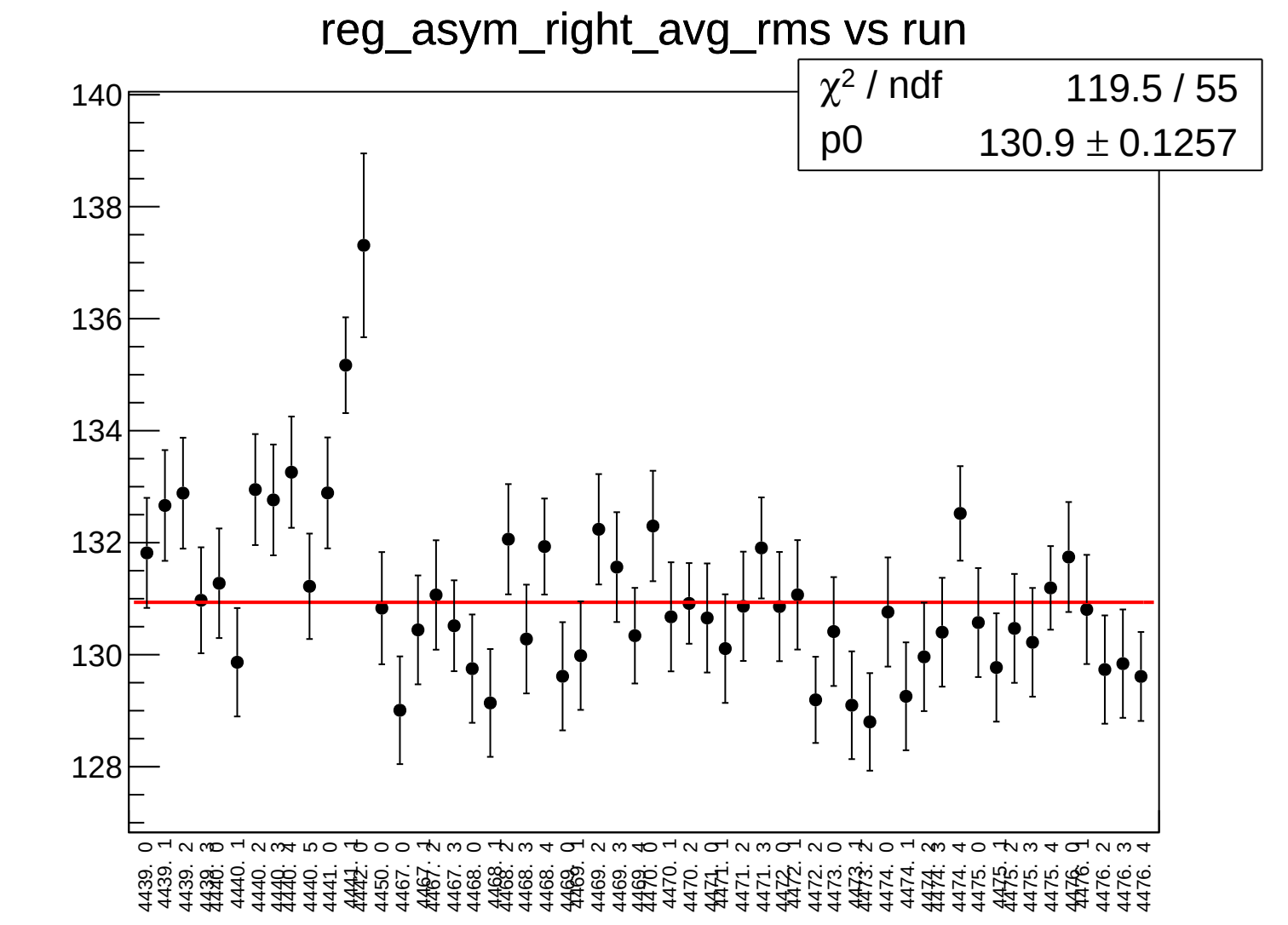

asym_left_dd_mean vs run
χ² / ndf 54.32 / 55
p0 48.13 ± 47.14
pull
Entries 56
Mean −119.8
Std Dev 150.1

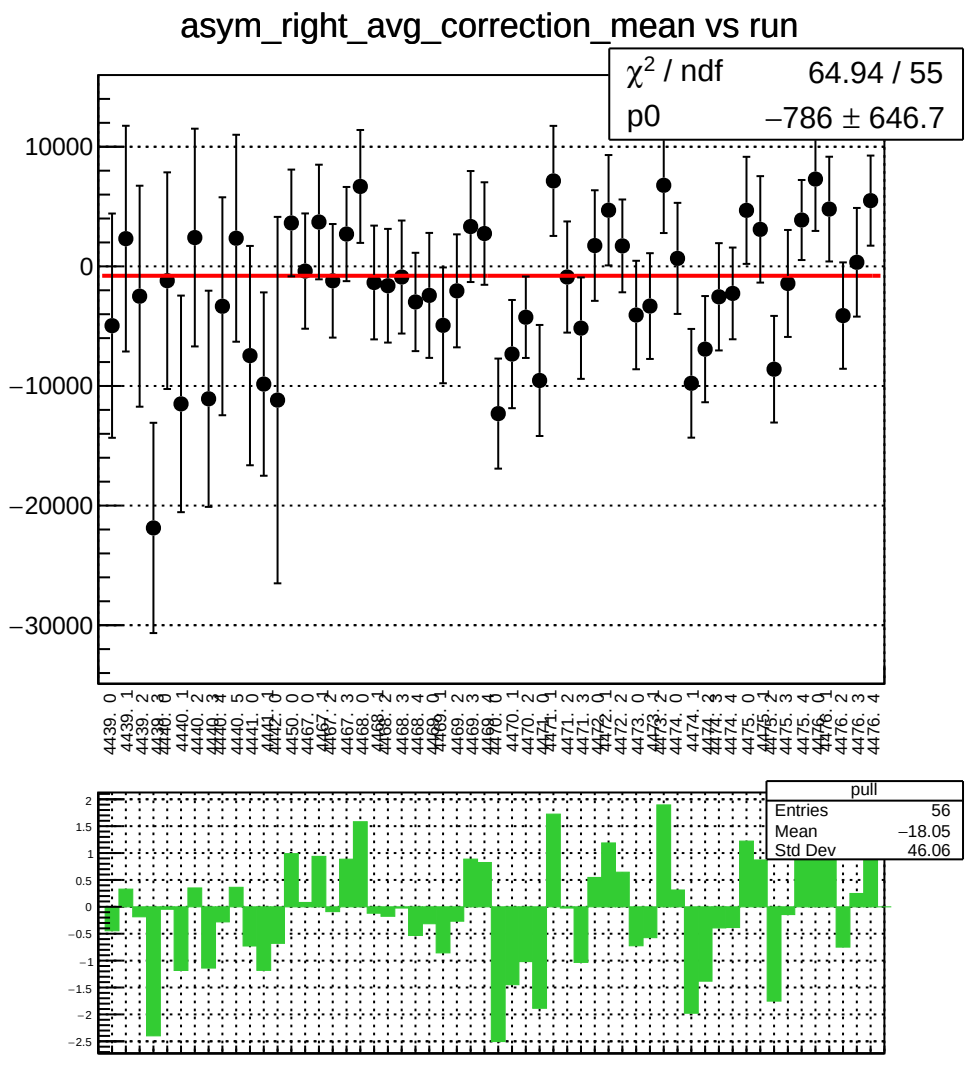

pull1D
Entries 56
Mean 0.03351
Std Dev 0.9843

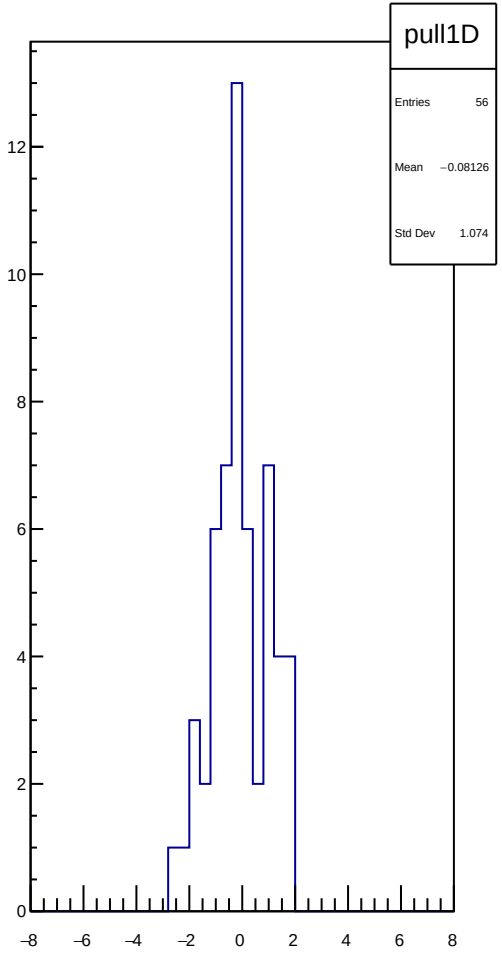

asym_left_dd_rms vs run
χ² / ndf 1.654e+04 / 55
p0 34.45 ± 0.03333
50
45
40
35
30

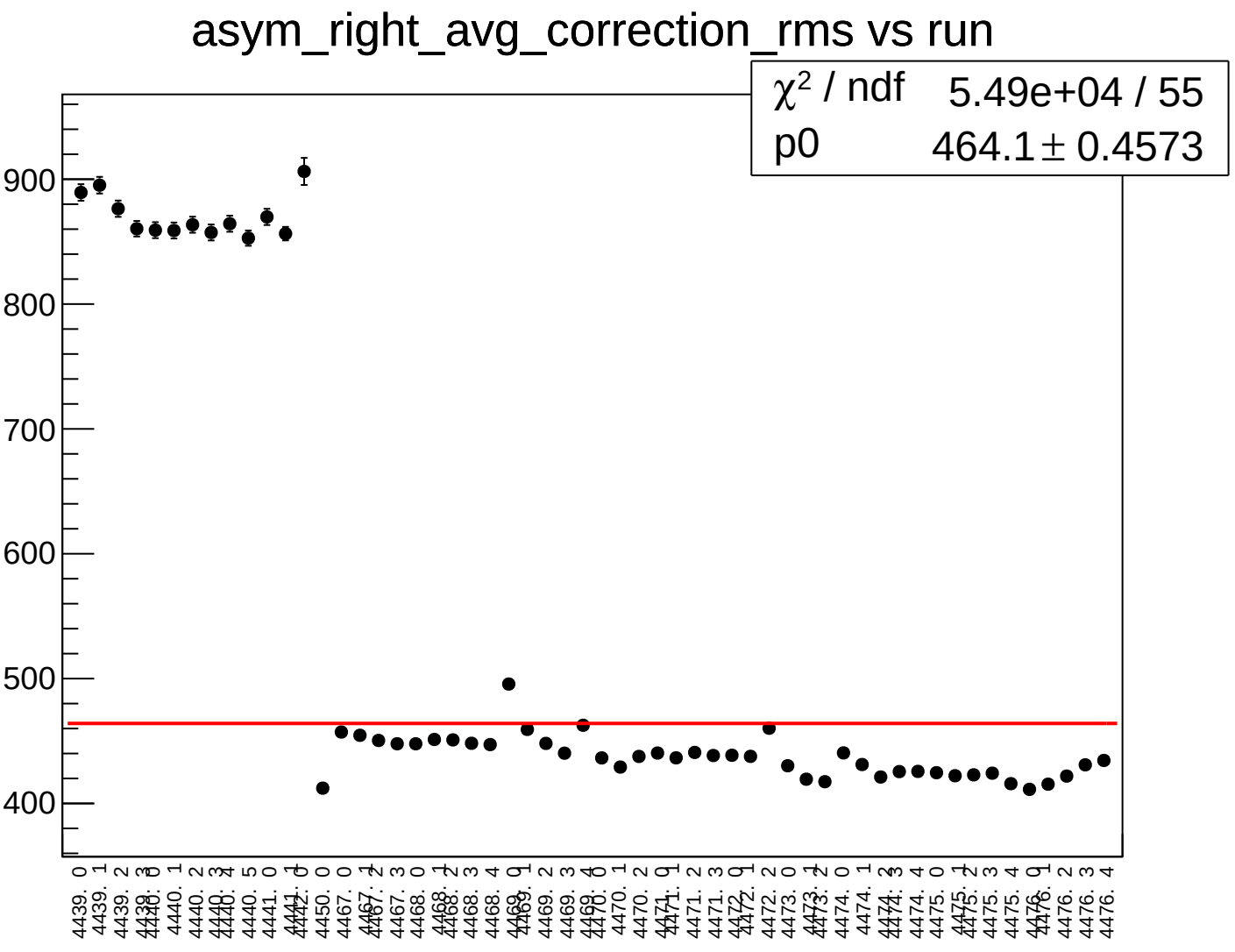

reg_asym_right_avg_mean vs run
χ² / ndf 52.87 / 55
p0 −736.9 ± 177.8
pull
Entries 56
Mean 211.4
Std Dev 182

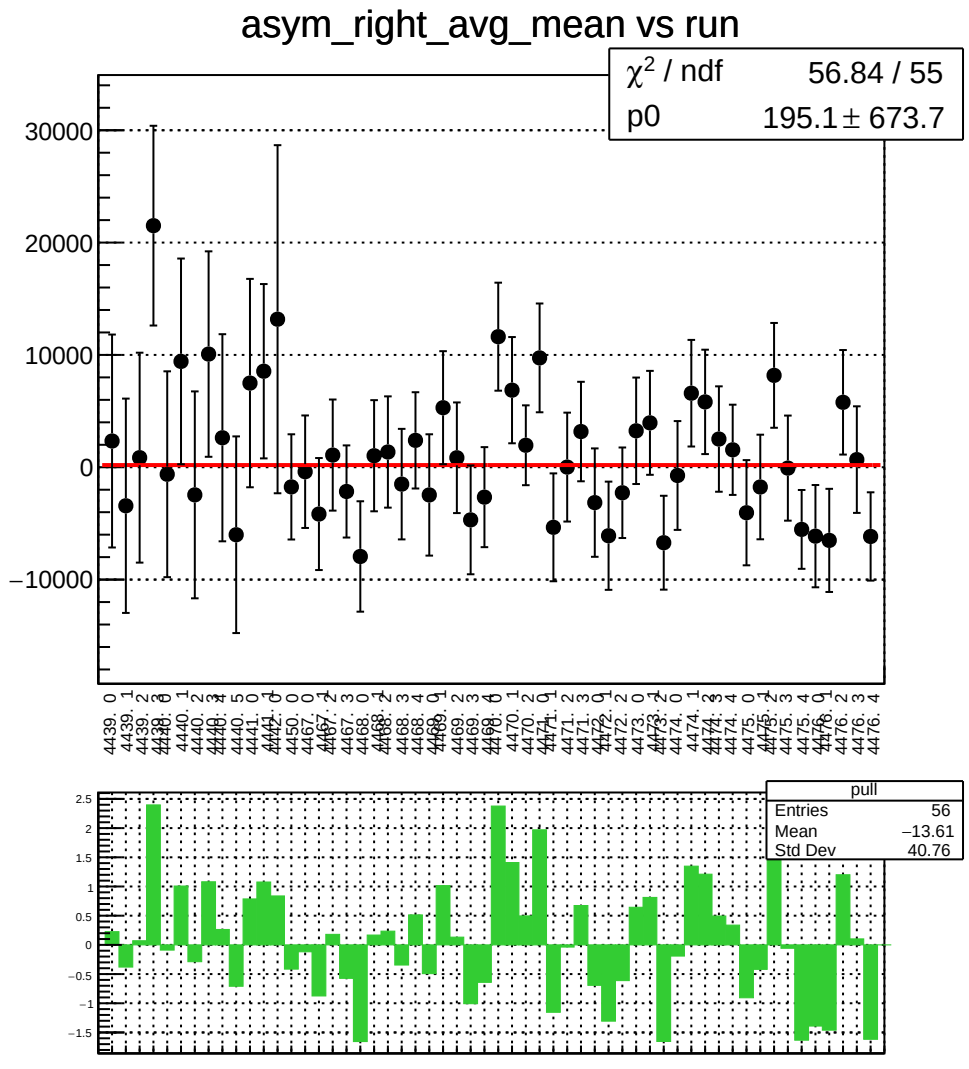

pull1D
Entries 56
Mean 0.01891
Std Dev 0.9714

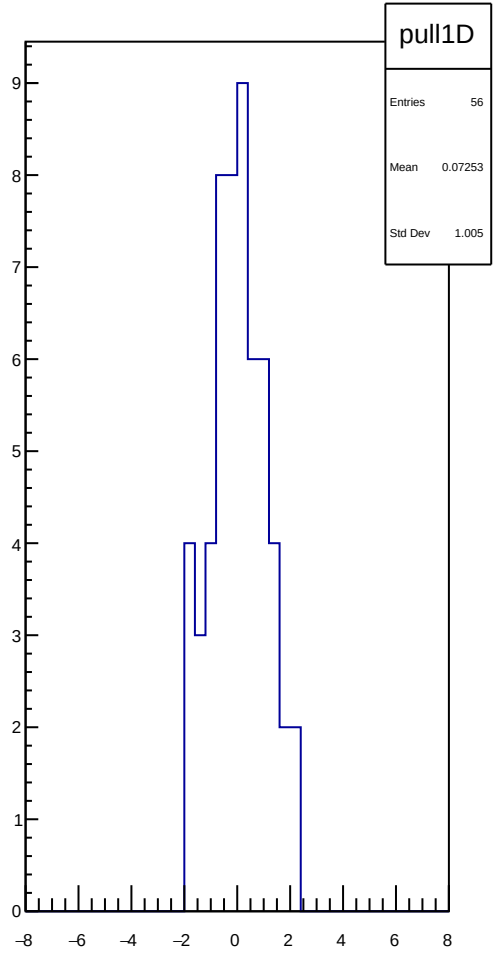

reg_asym_right_avg_rms vs run
χ² / ndf 119.5 / 55
p0 130.9 ± 0.1257
140
138
136
134
132
130
128

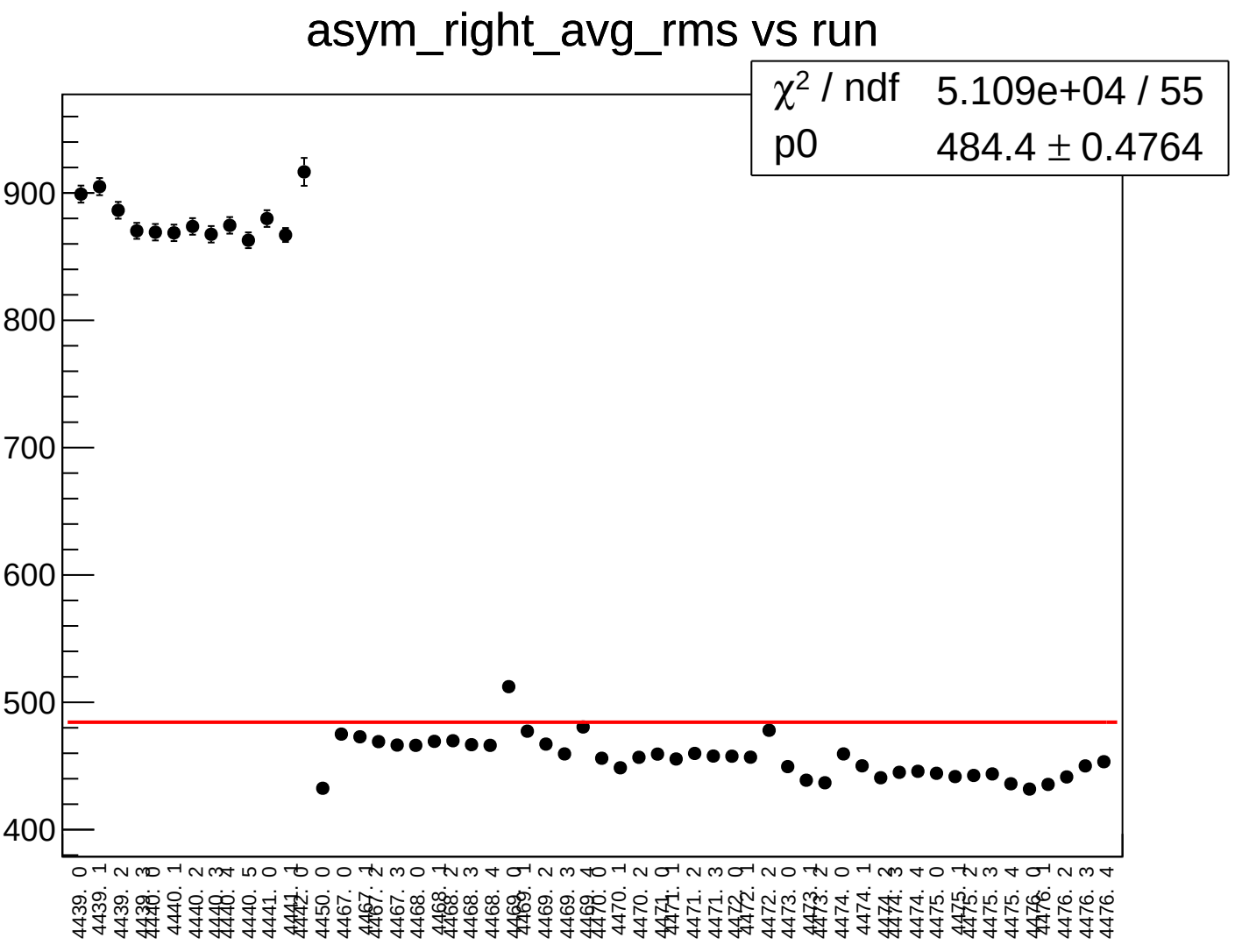

asym_right_avg_correction_mean vs run
χ² / ndf 64.94 / 55
p0 −786 ± 646.7
pull
Entries 56
Mean −18.05
Std Dev 46.06

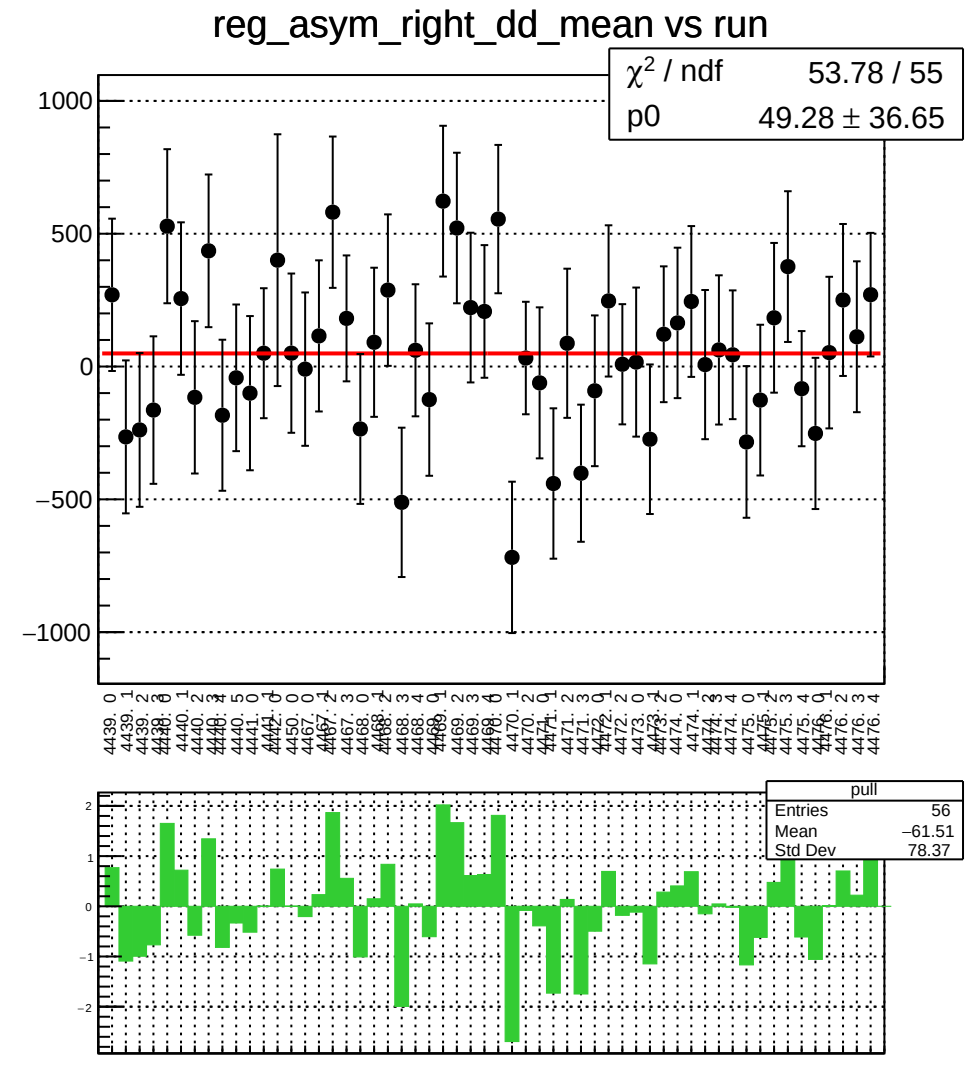

pull1D
Entries 56
Mean −0.08126
Std Dev 1.074

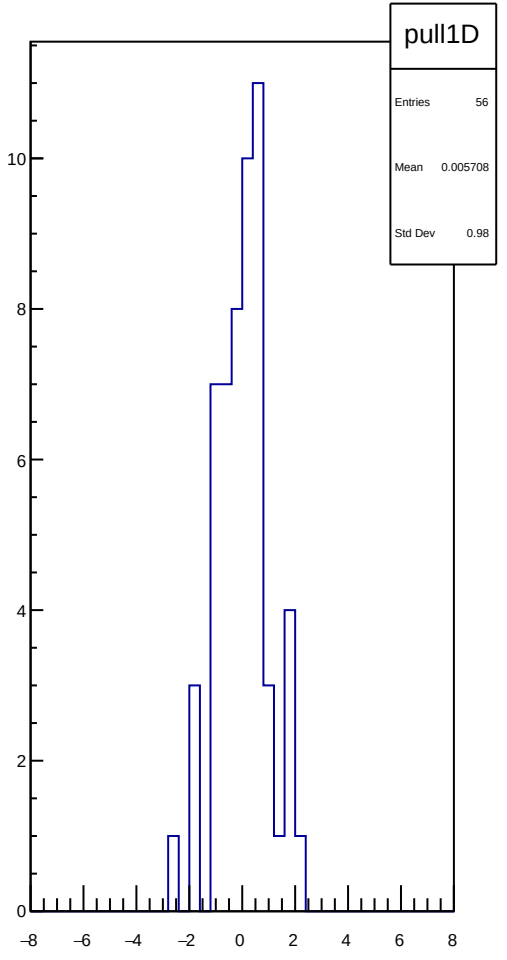

asym_right_avg_correction_rms vs run
χ² / ndf 5.49e+04 / 55
p0 464.1 ± 0.4573
900
800
700
600
500
400

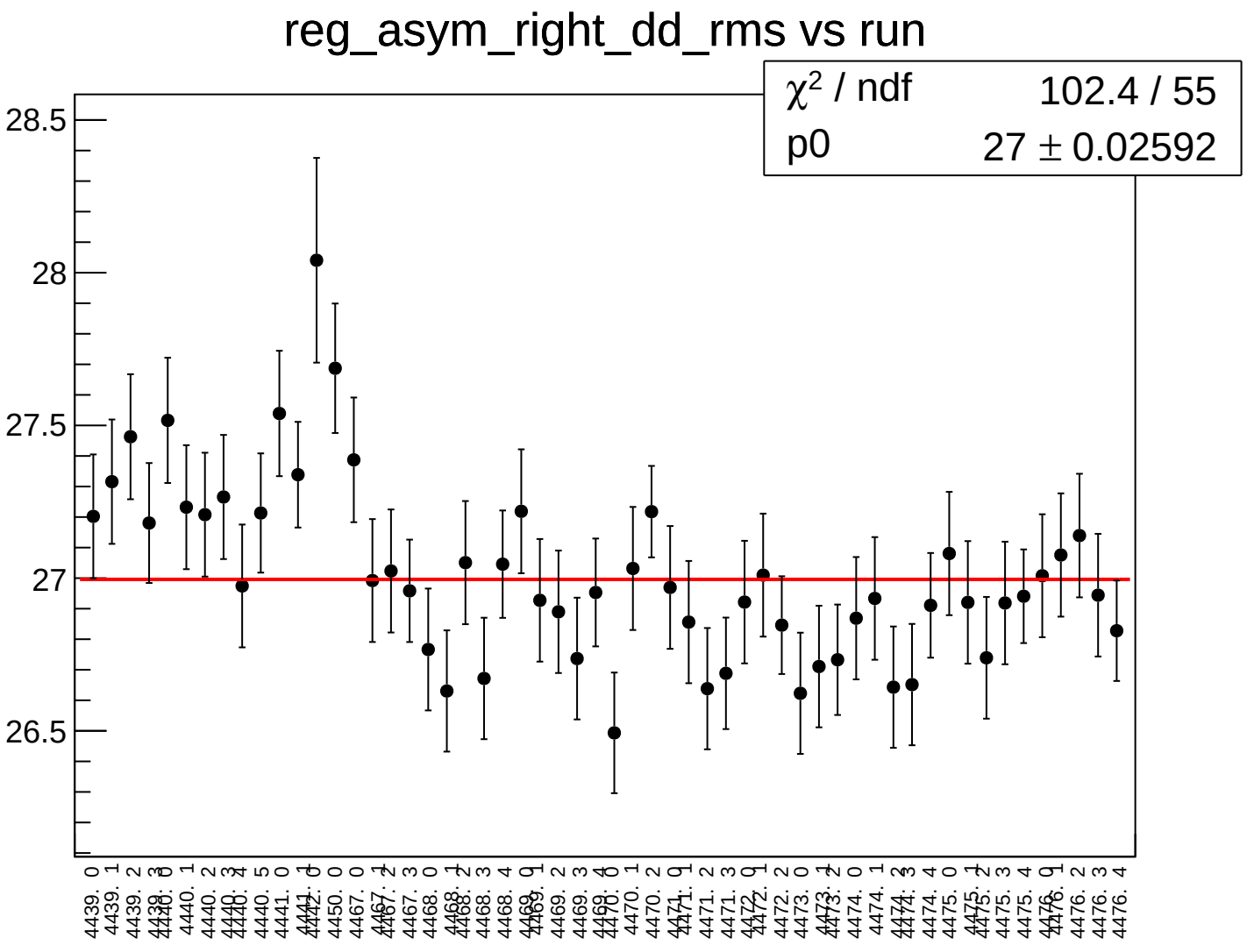

asym_right_avg_mean vs run
χ² / ndf 56.84 / 55
p0 195.1 ± 673.7
30000
20000
10000
0
−10000
pull
Entries 56
Mean −13.61
Std Dev 40.76
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

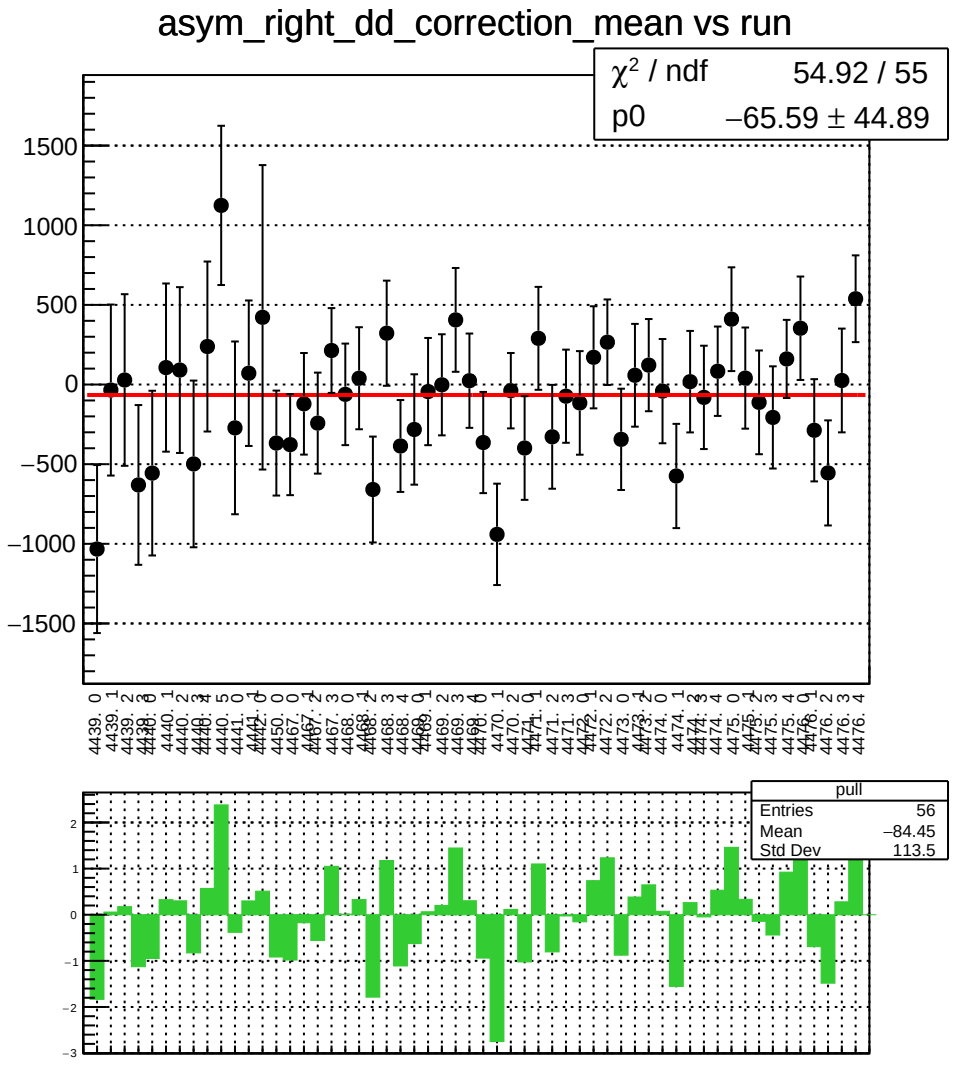

pull1D
Entries 56
Mean 0.07253
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

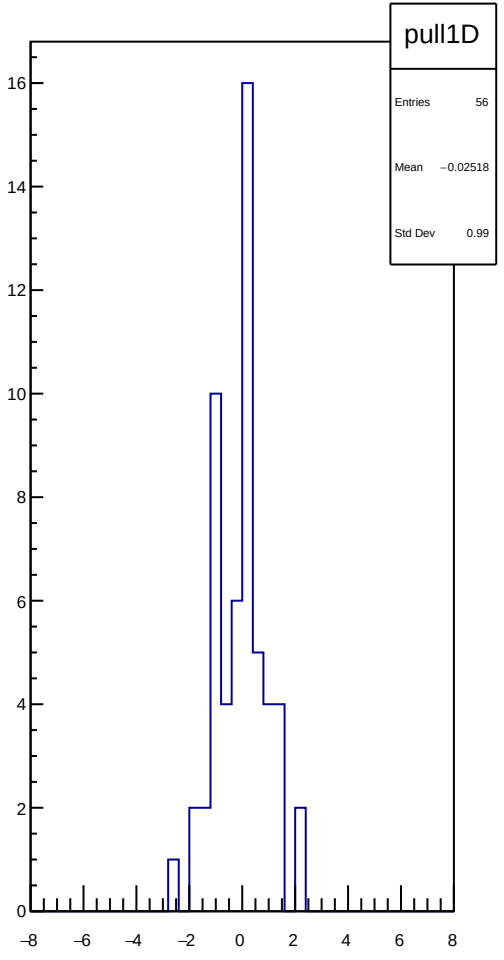

asym_right_avg_rms vs run
χ² / ndf 5.109e+04 / 55
p0 484.4 ± 0.4764
900
800
700
600
500
400
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

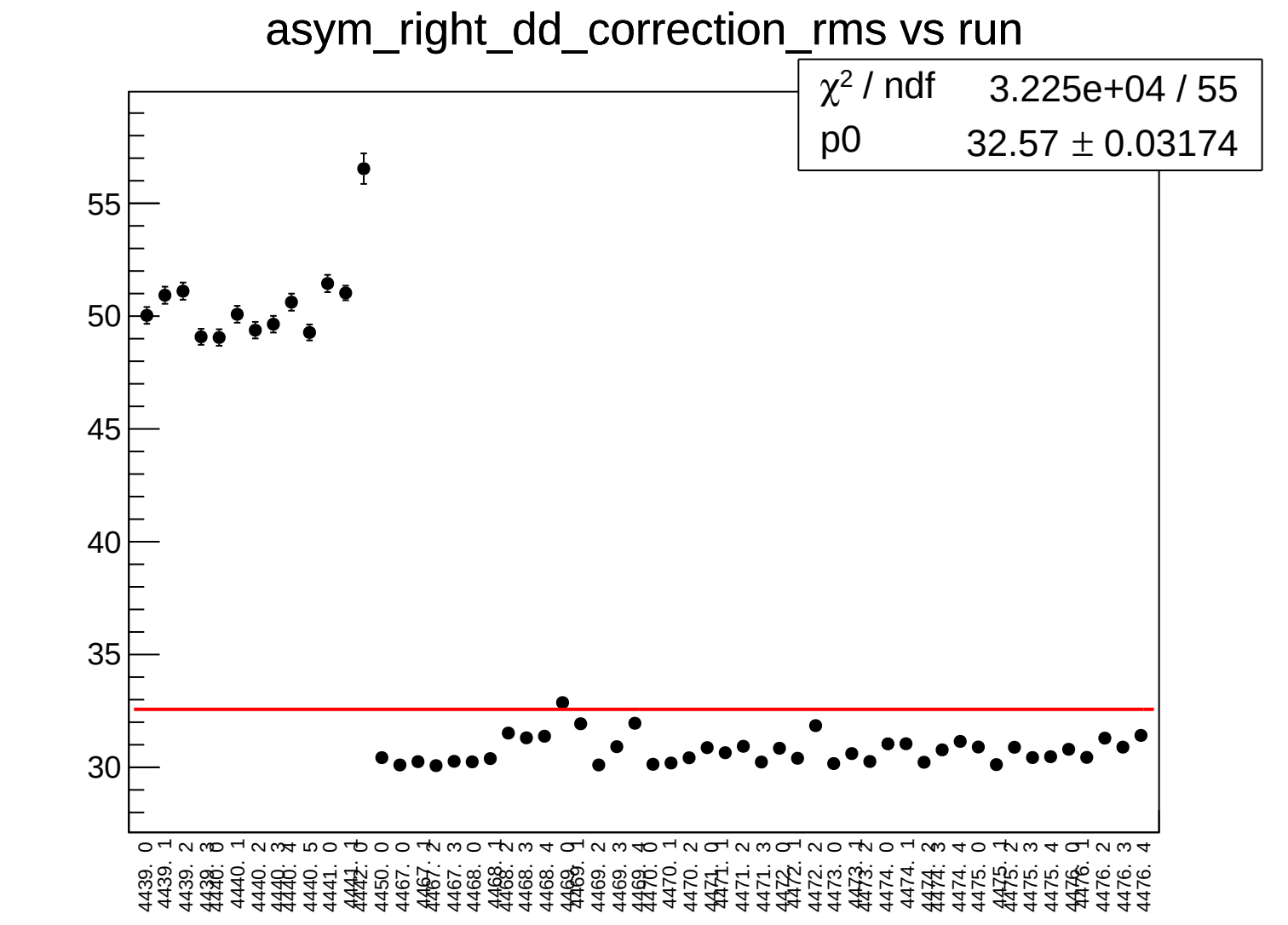

reg_asym_right_dd_mean vs run
χ^2 / ndf 53.78 / 55
p0 49.28 ± 36.65
1000
500
0
−500
−1000
pull
Entries 56
Mean −61.51
Std Dev 78.37
2
1
0
−1
−2

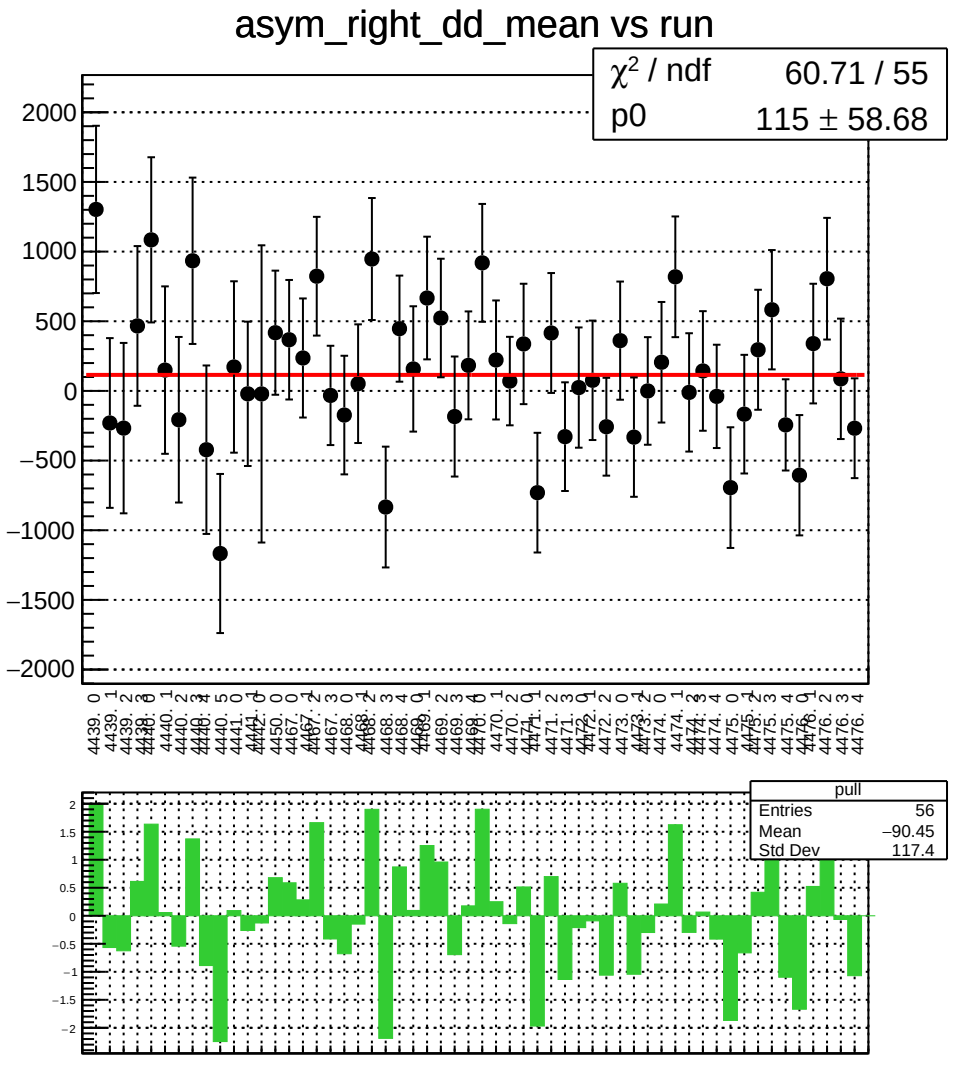

pull1D
Entries 56
Mean 0.005708
Std Dev 0.98
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

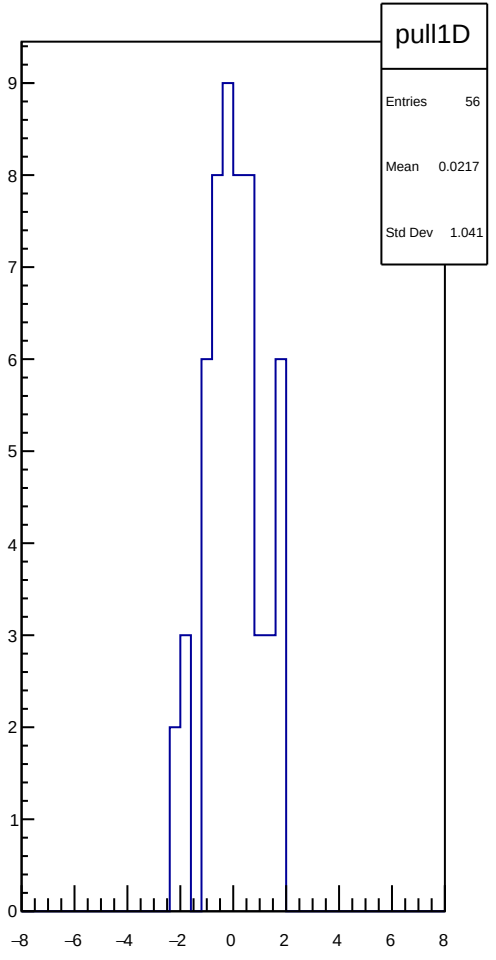

reg_asym_right_dd_rms vs run
χ² / ndf 102.4 / 55
p0 27 ± 0.02592
28.5
28
27.5
27
26.5

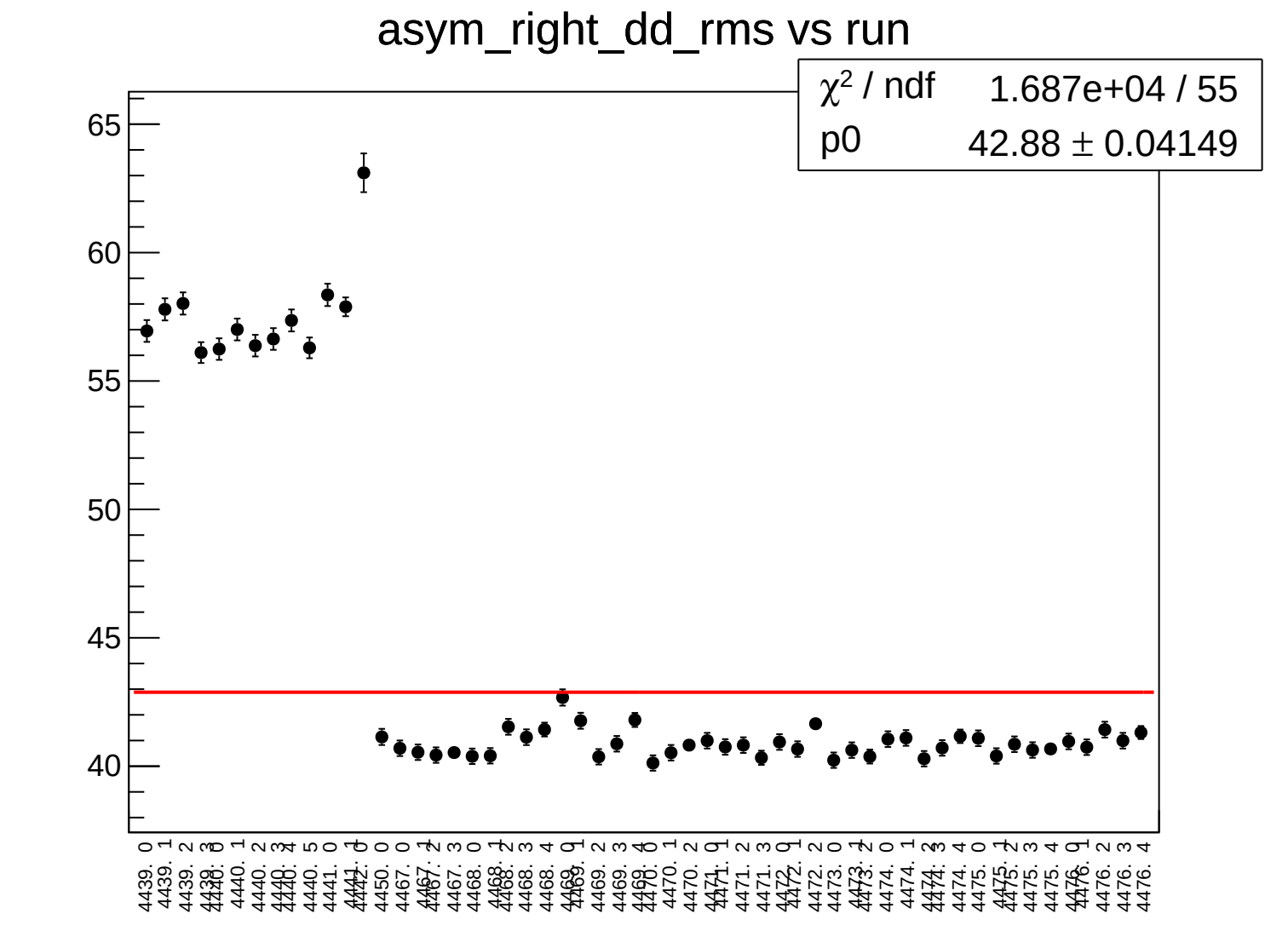

asym_right_dd_correction_mean vs run
χ² / ndf 54.92 / 55
p0 −65.59 ± 44.89
pull
Entries 56
Mean −84.45
Std Dev 113.5

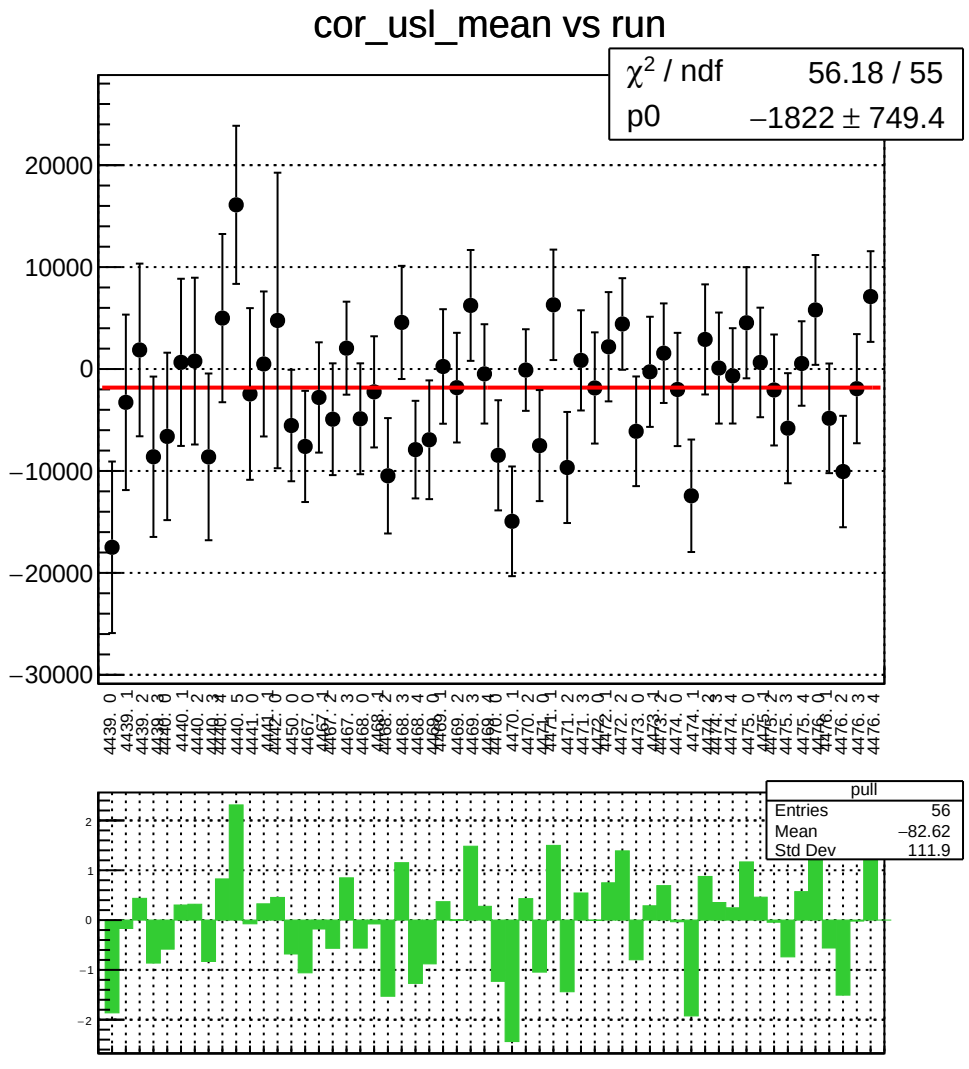

pull1D
Entries 56
Mean −0.02518
Std Dev 0.99

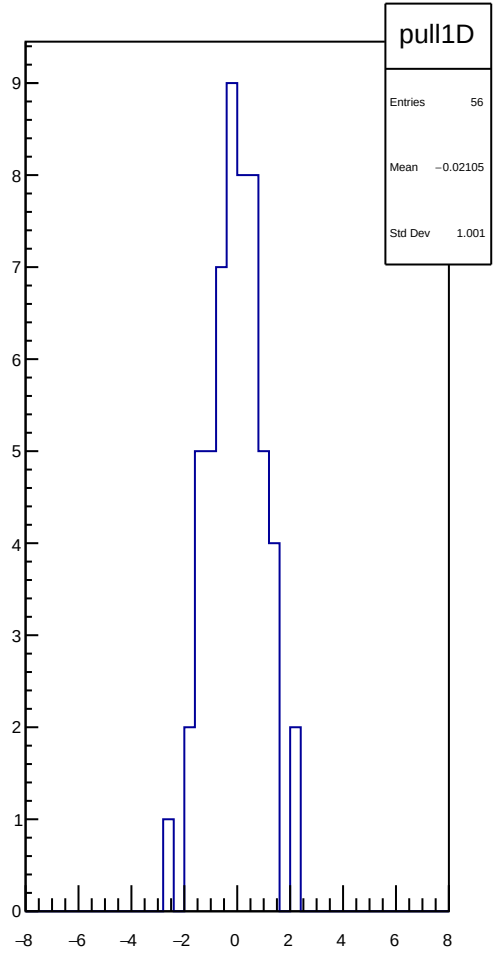

asym_right_dd_correction_rms vs run
χ² / ndf 3.225e+04 / 55
p0 32.57 ± 0.03174
55
50
45
40
35
30

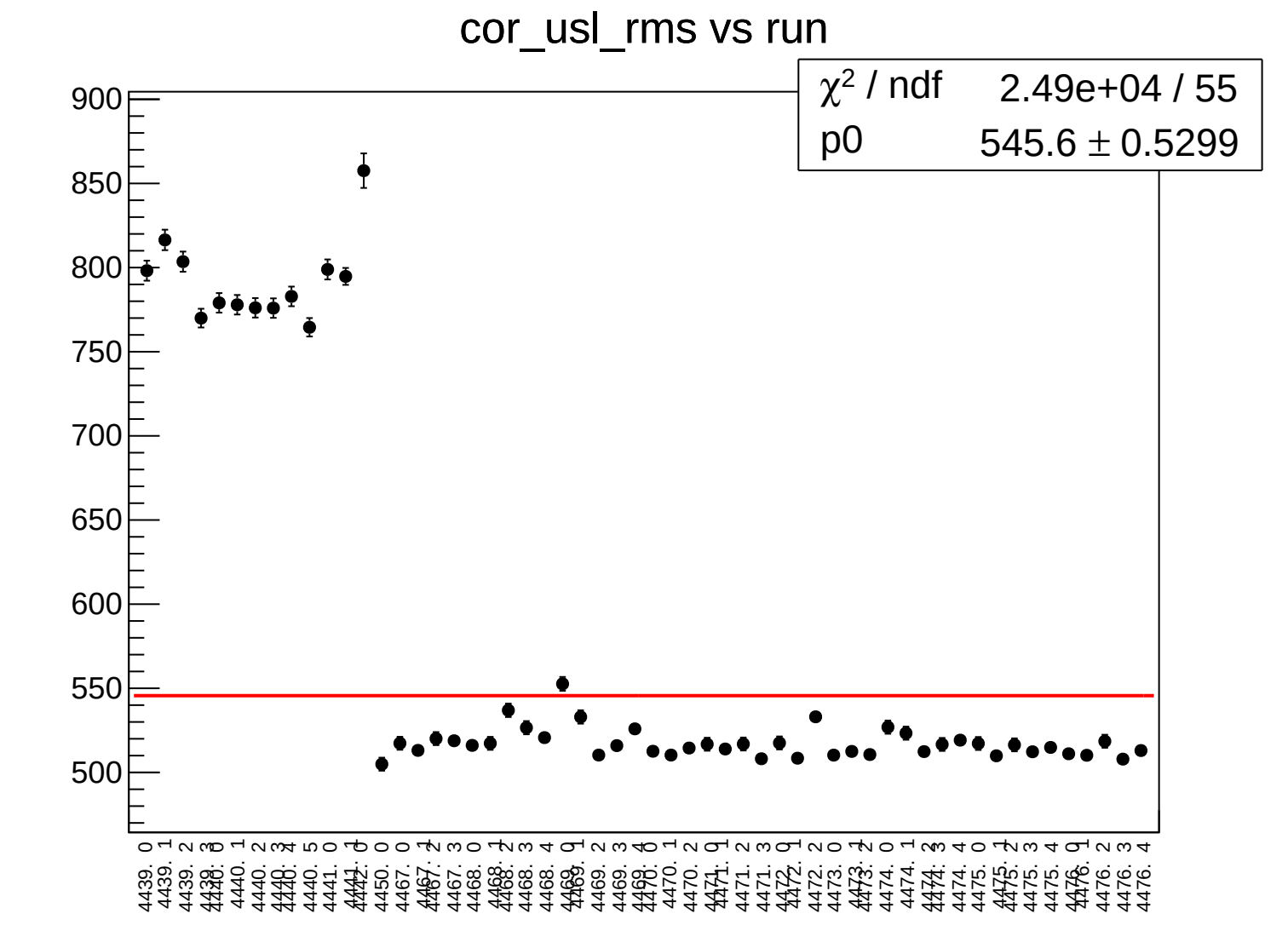

asym_right_dd_mean vs run
χ² / ndf 60.71 / 55
p0 115 ± 58.68
pull
Entries 56
Mean −90.45
Std Dev 117.4

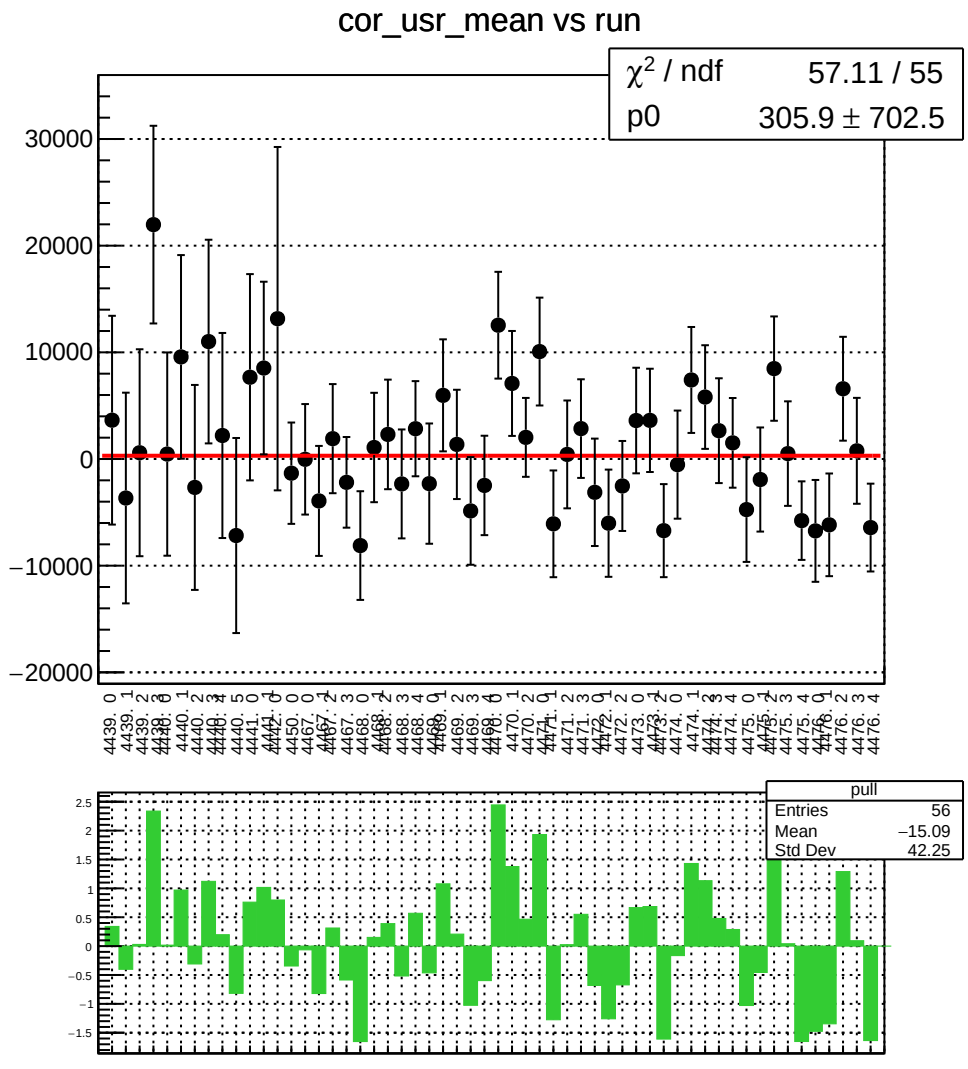

pull1D
Entries 56
Mean 0.0217
Std Dev 1.041

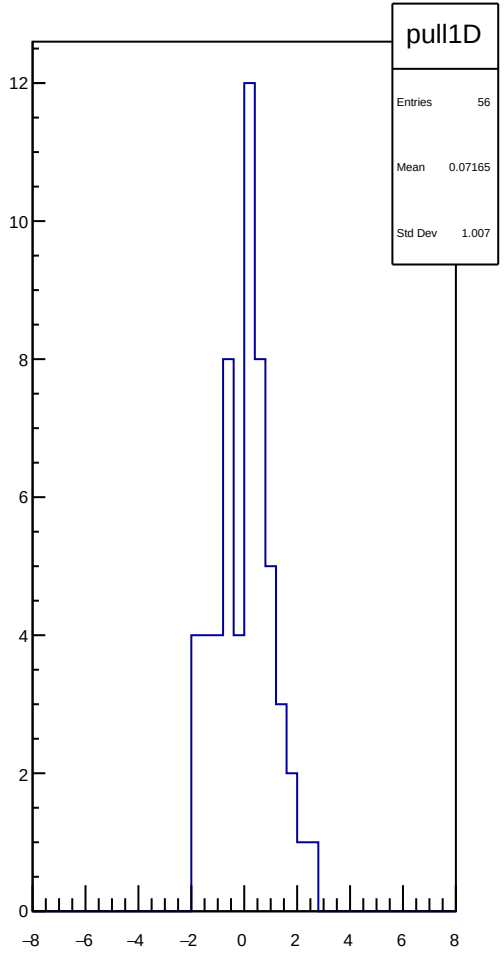

asym_right_dd_rms vs run
χ² / ndf 1.687e+04 / 55
p0 42.88 ± 0.04149
65
60
55
50
45
40

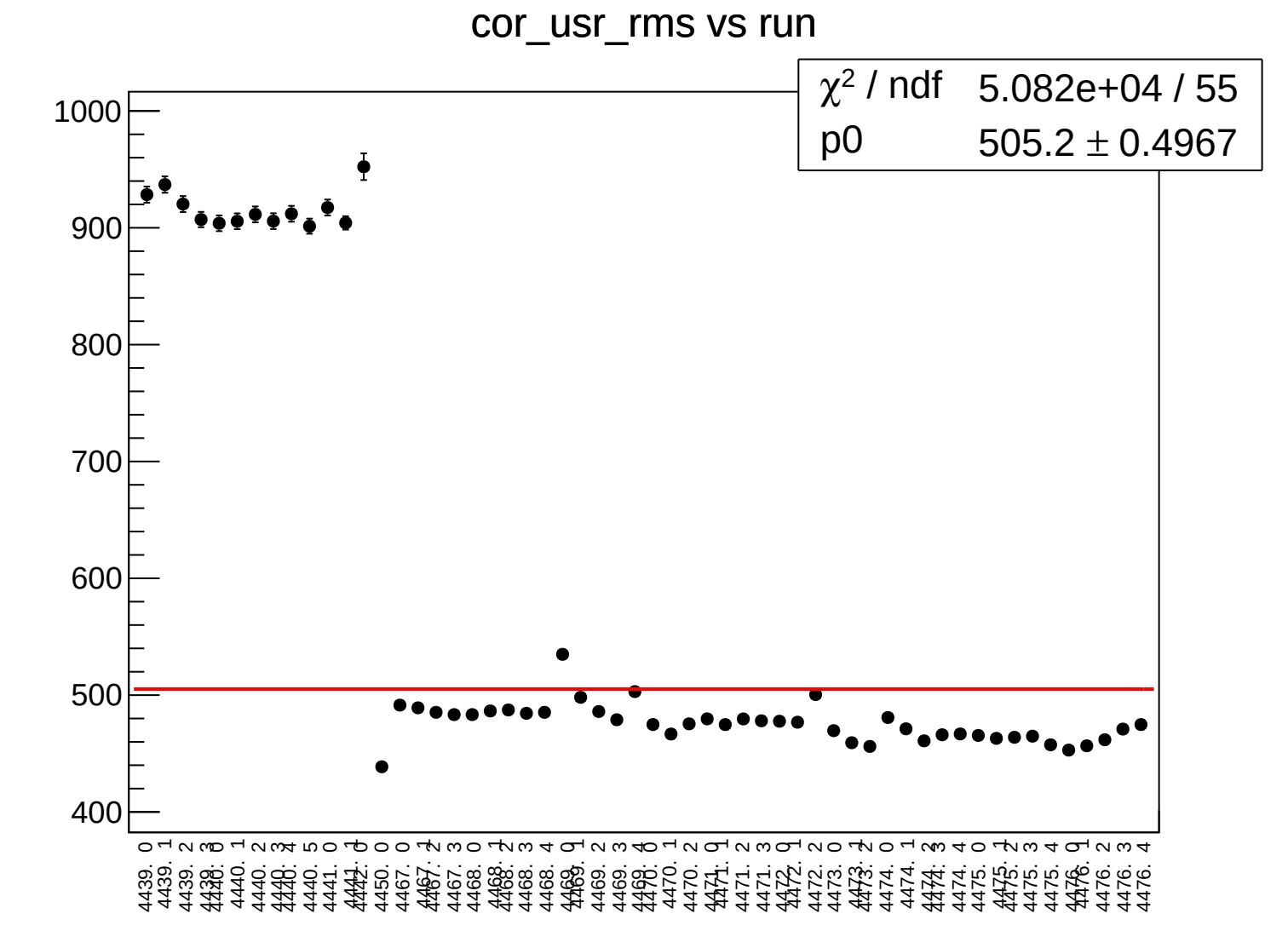

cor_usl_mean vs run
χ² / ndf 56.18 / 55
p0 −1822 ± 749.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 56
Mean −82.62
Std Dev 111.9
2
1
0
−1
−2

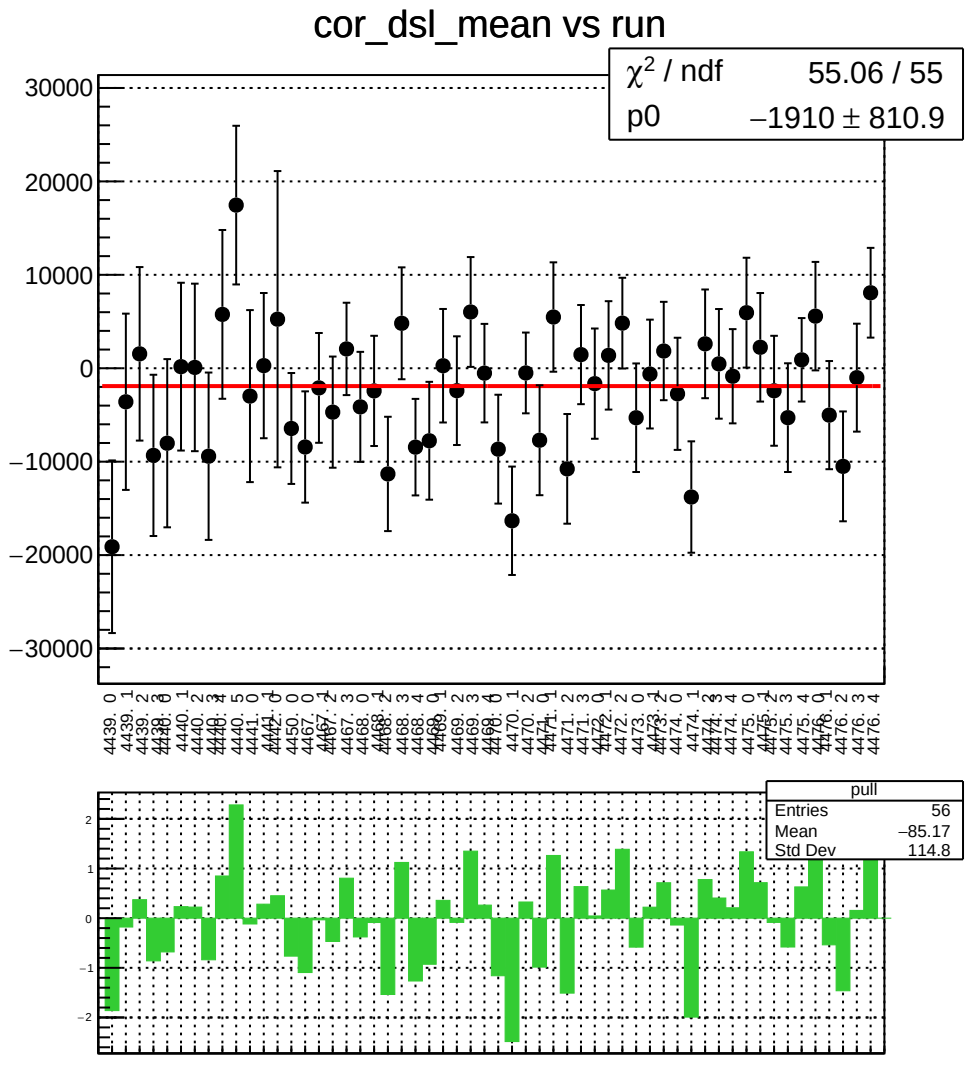

pull1D
Entries 56
Mean −0.02105
Std Dev 1.001
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

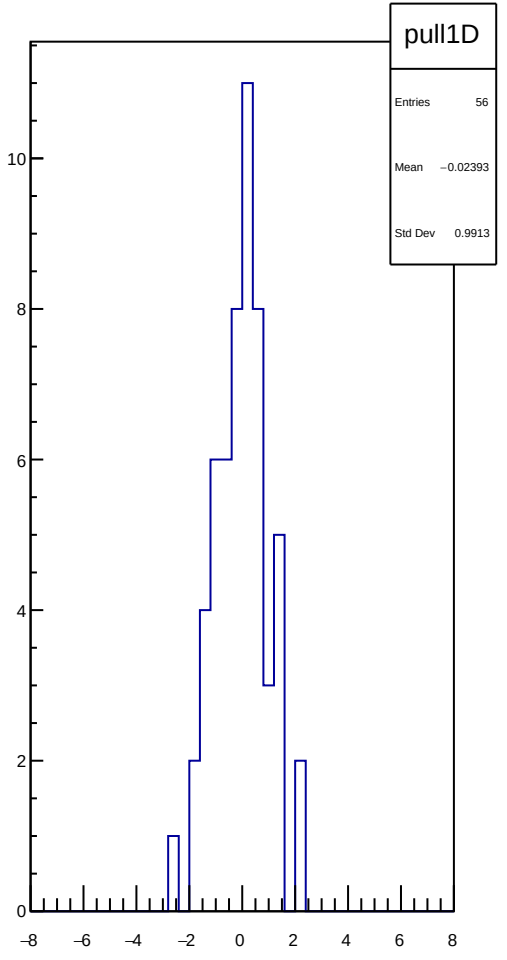

cor_usl_rms vs run
χ² / ndf 2.49e+04 / 55
p0 545.6 ± 0.5299
900
850
800
750
700
650
600
550
500
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

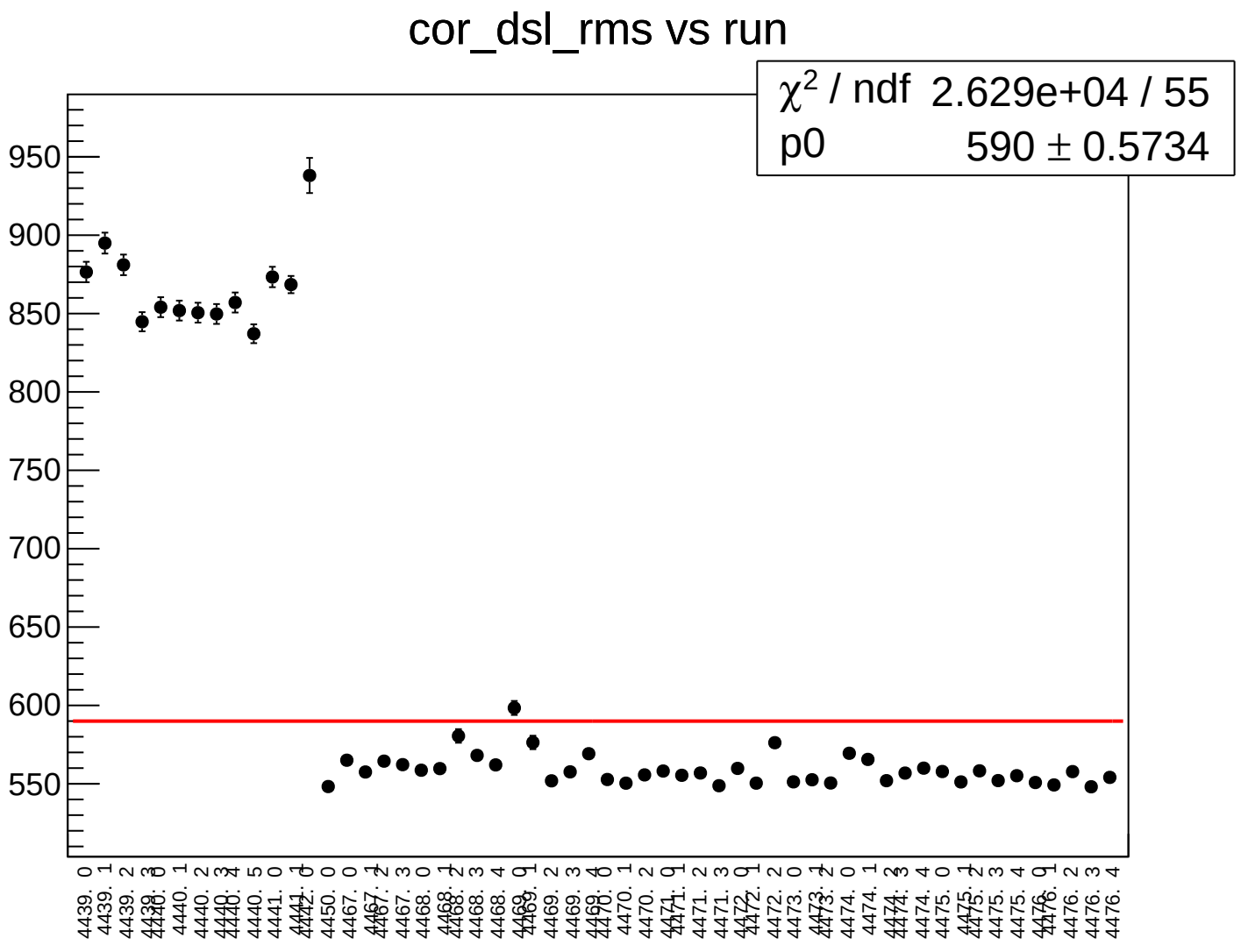

cor_usr_mean vs run
χ² / ndf 57.11 / 55
p0 305.9 ± 702.5
pull
Entries 56
Mean −15.09
Std Dev 42.25

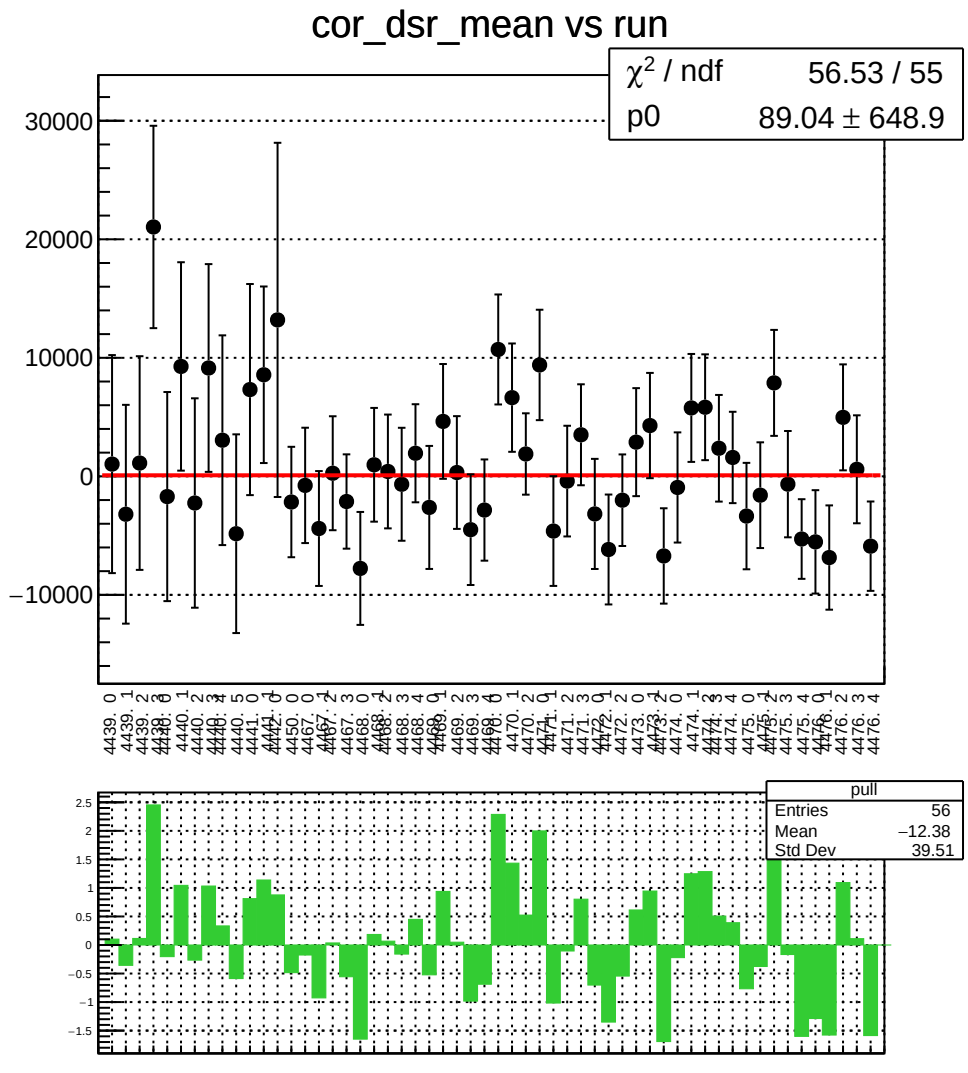

pull1D
Entries 56
Mean 0.07165
Std Dev 1.007

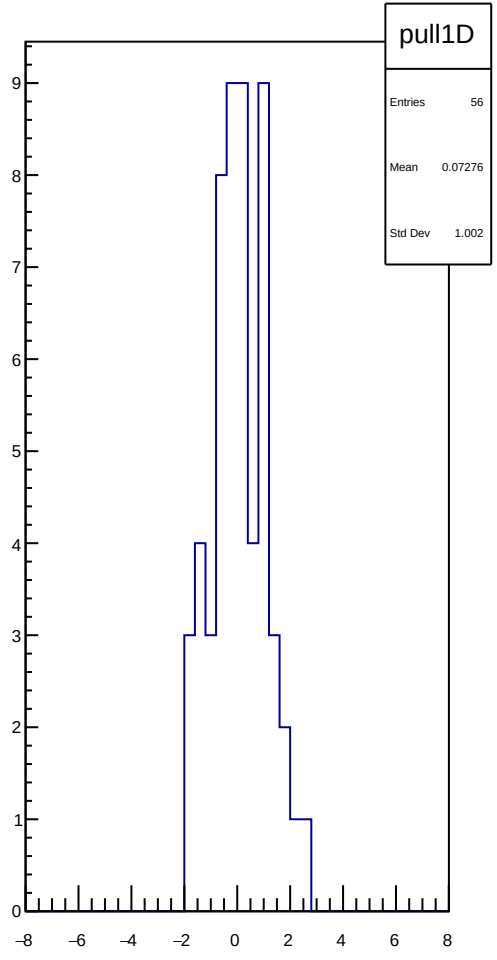

cor_usr_rms vs run
χ² / ndf 5.082e+04 / 55
p0 505.2 ± 0.4967
1000
900
800
700
600
500
400

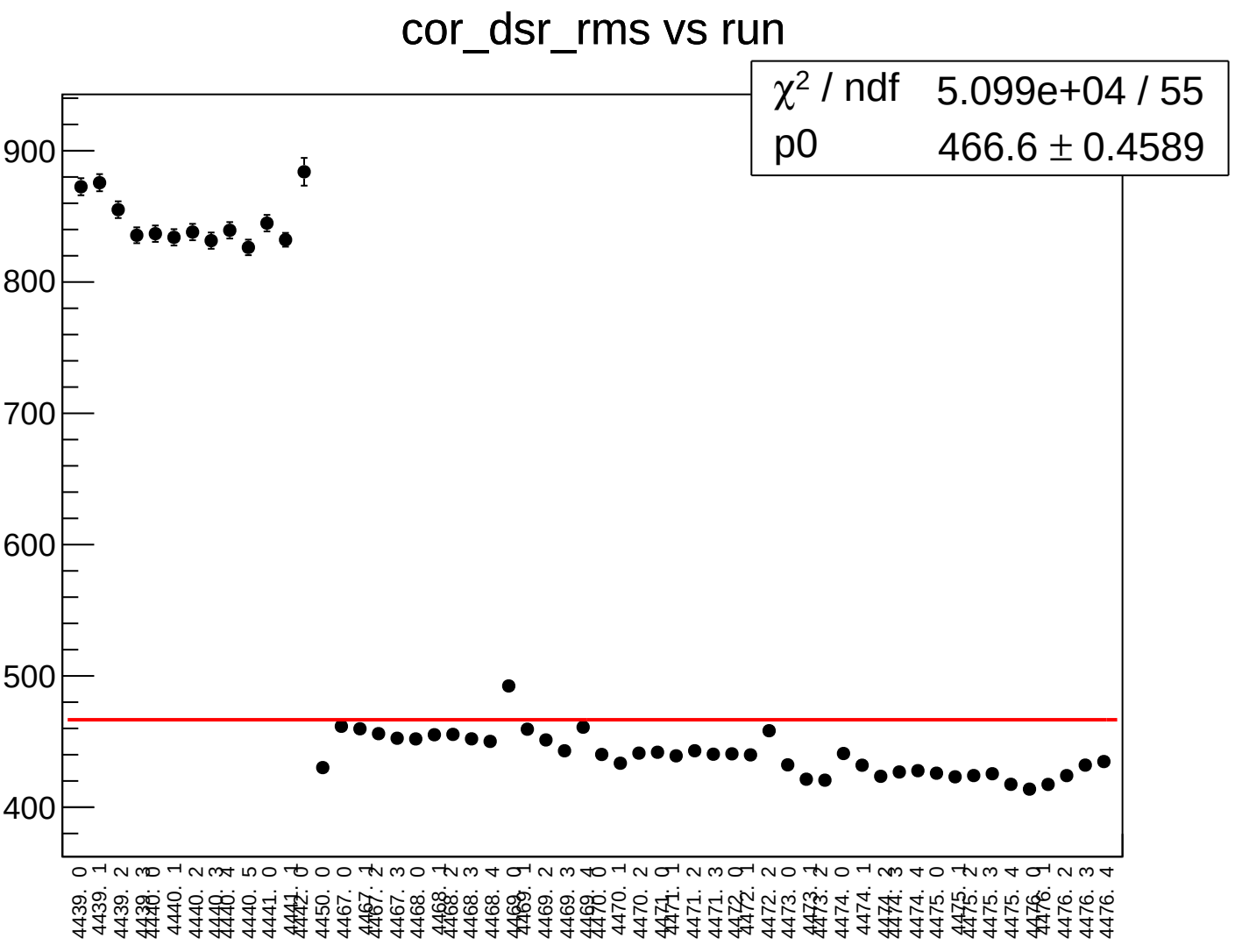

cor_dsl_mean vs run
χ² / ndf 55.06 / 55
p0 −1910 ± 810.9
pull
Entries 56
Mean −85.17
Std Dev 114.8

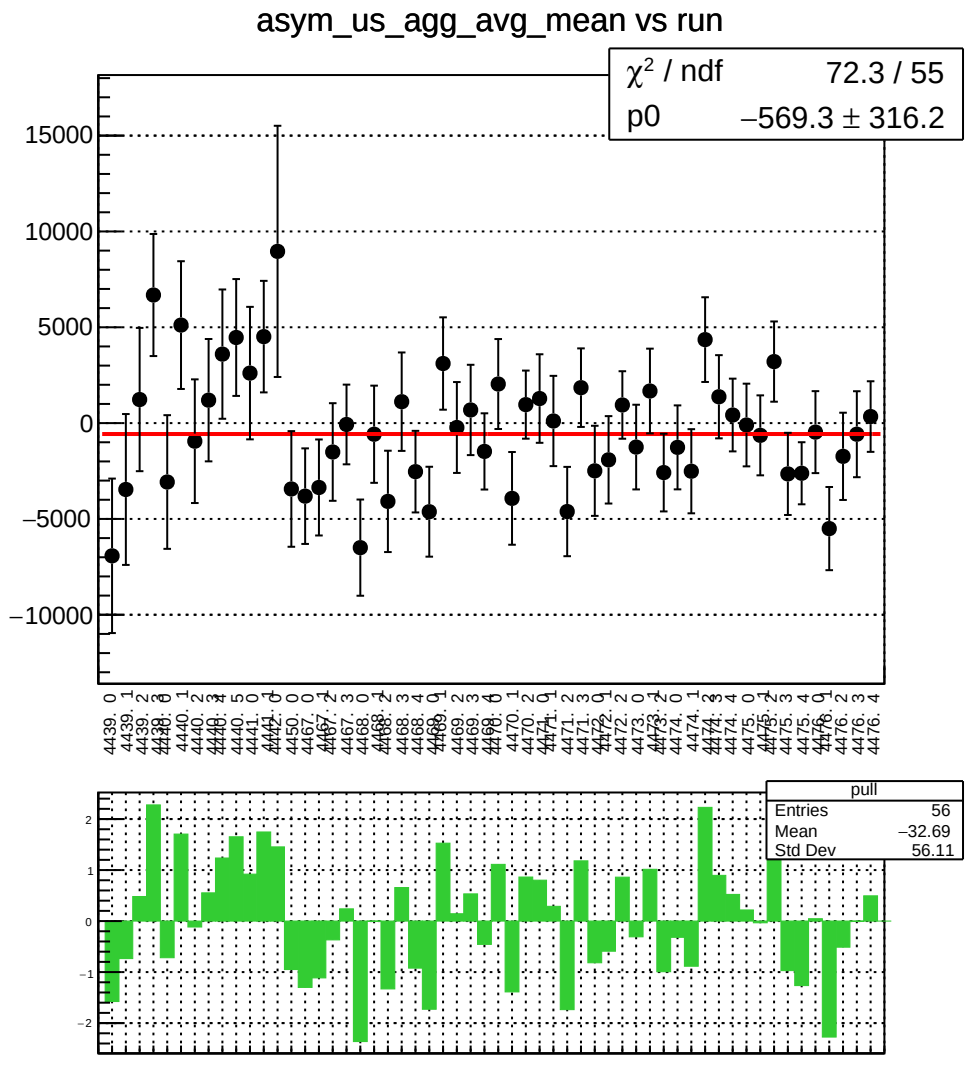

pull1D
Entries 56
Mean −0.02393
Std Dev 0.9913

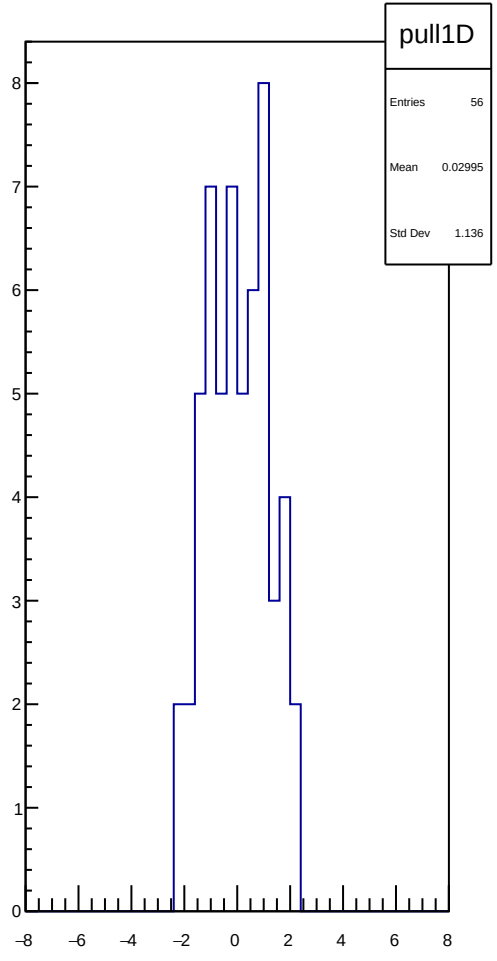

cor_dsl_rms vs run
χ² / ndf 2.629e+04 / 55
p0 590 ± 0.5734
950
900
850
800
750
700
650
600
550

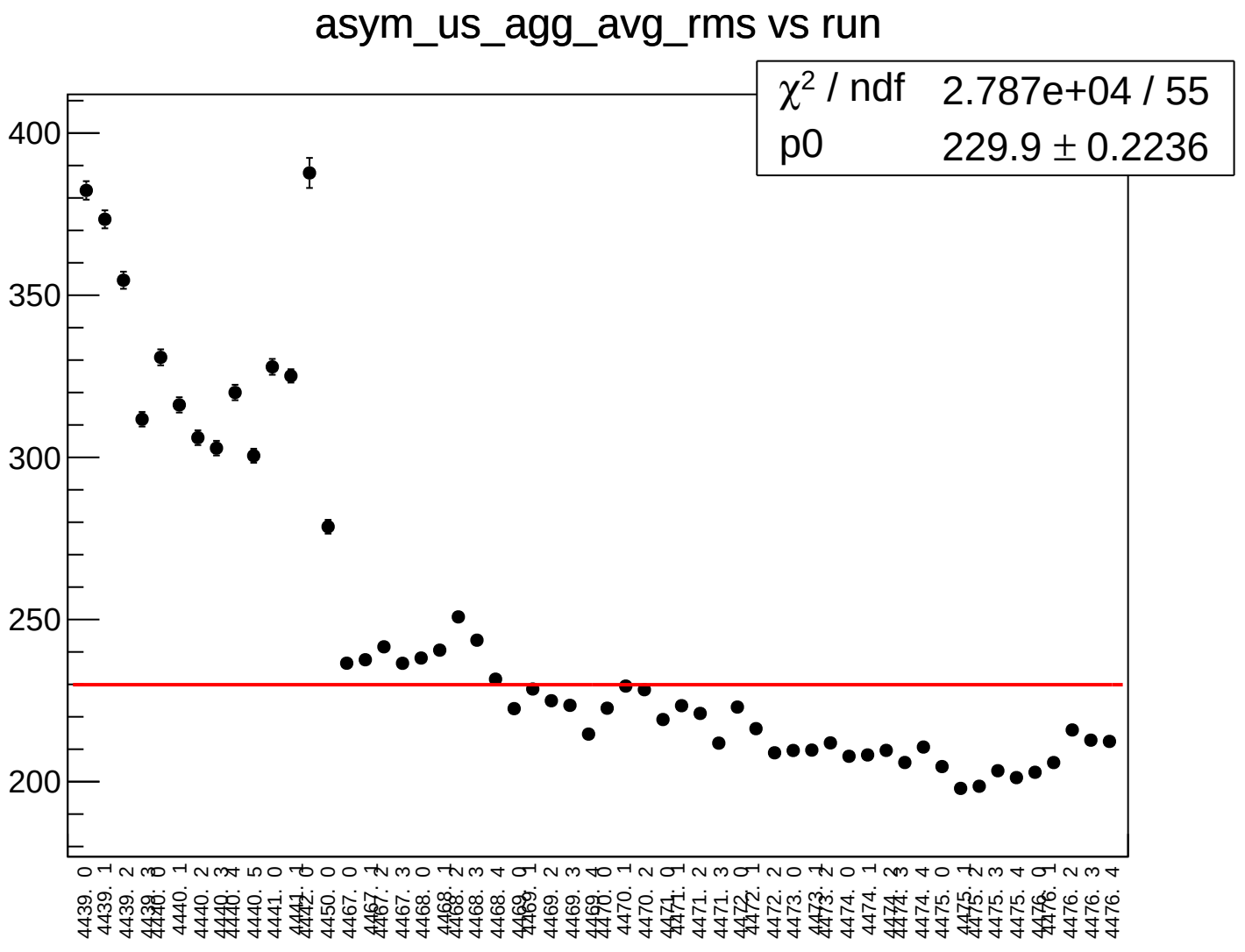

cor_dsr_mean vs run
χ² / ndf 56.53 / 55
p0 89.04 ± 648.9
30000
20000
10000
0
−10000
pull
Entries 56
Mean −12.38
Std Dev 39.51
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

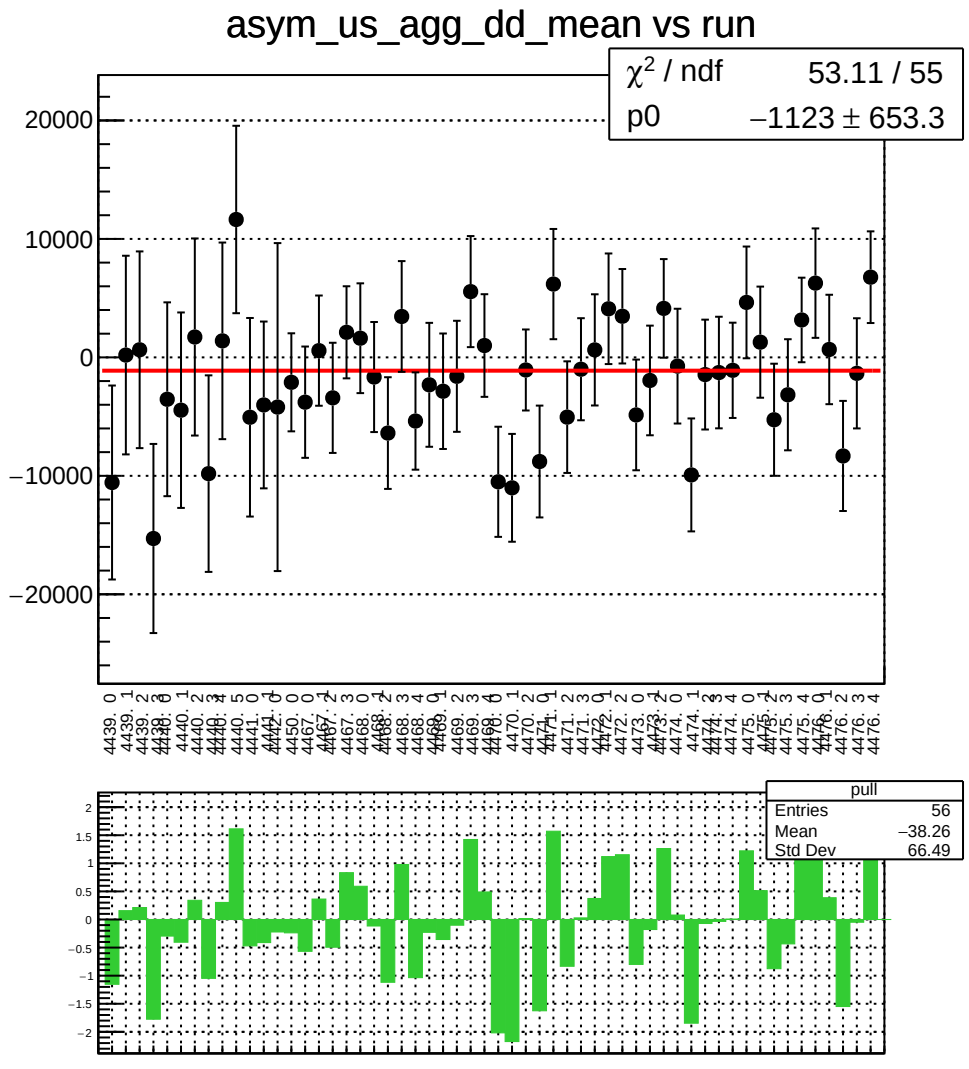

pull1D
Entries 56
Mean 0.07276
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

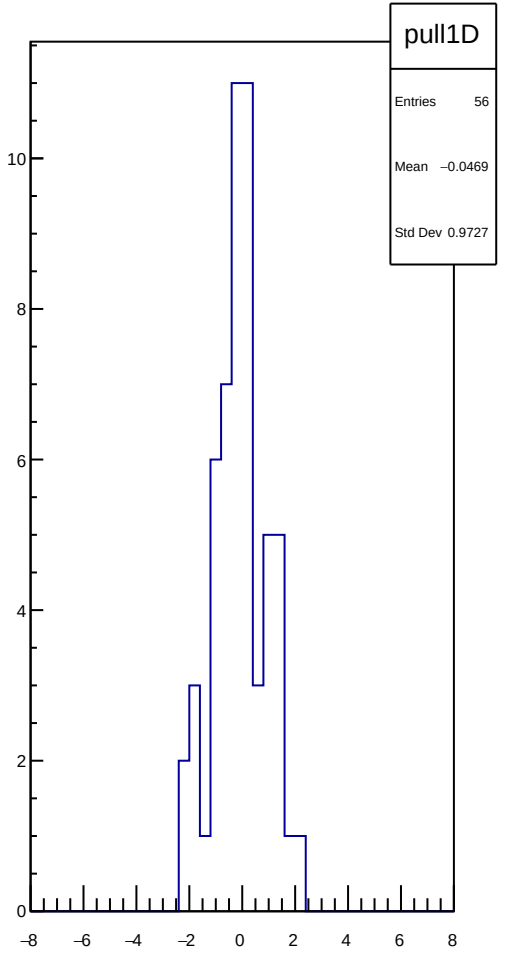

cor_dsr_rms vs run
χ² / ndf 5.099e+04 / 55
p0 466.6 ± 0.4589
900
800
700
600
500
400

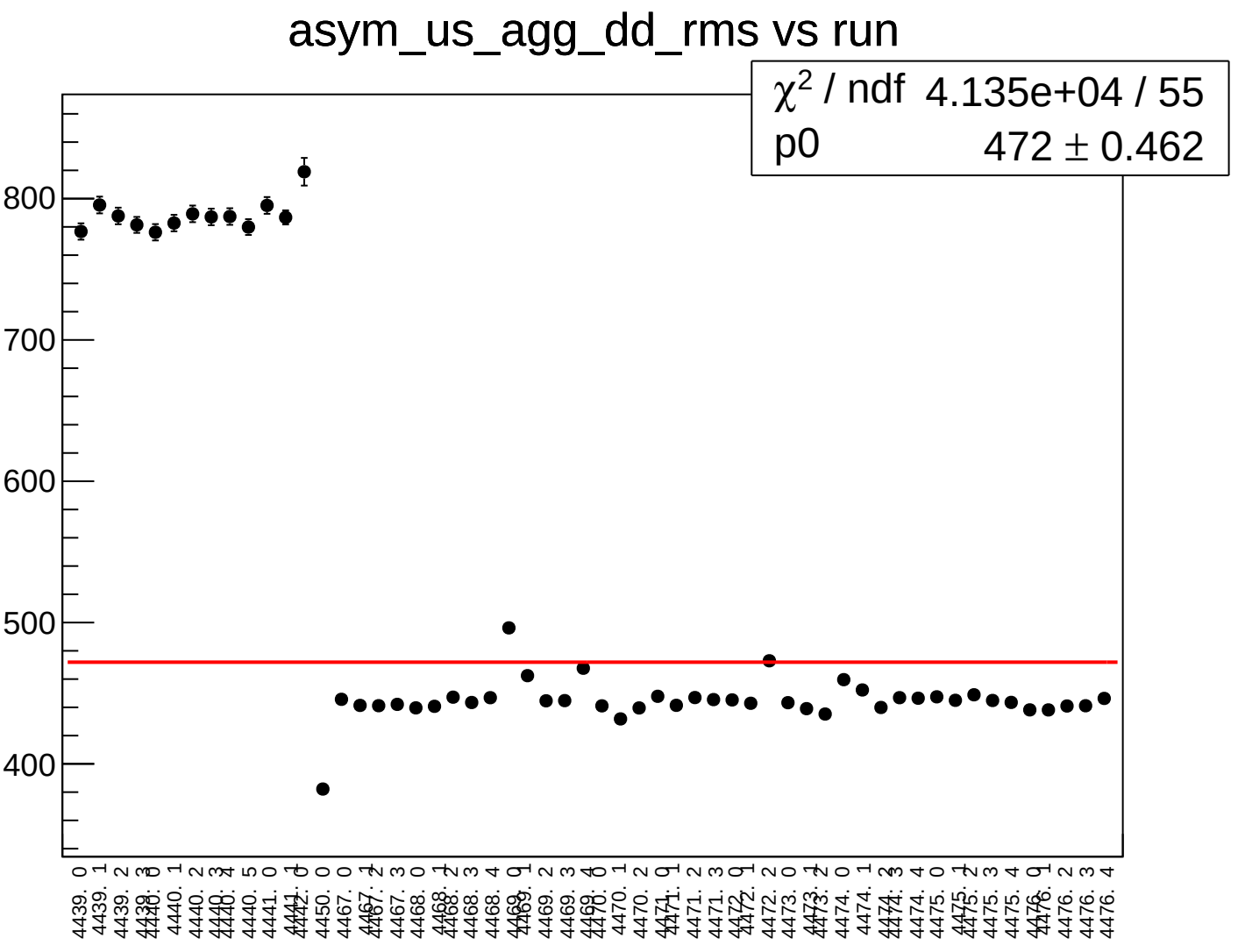

asym_us_agg_avg_mean vs run
χ² / ndf 72.3 / 55
p0 −569.3 ± 316.2
15000
10000
5000
0
−5000
−10000
pull
Entries 56
Mean −32.69
Std Dev 56.11
2
1
0
−1
−2

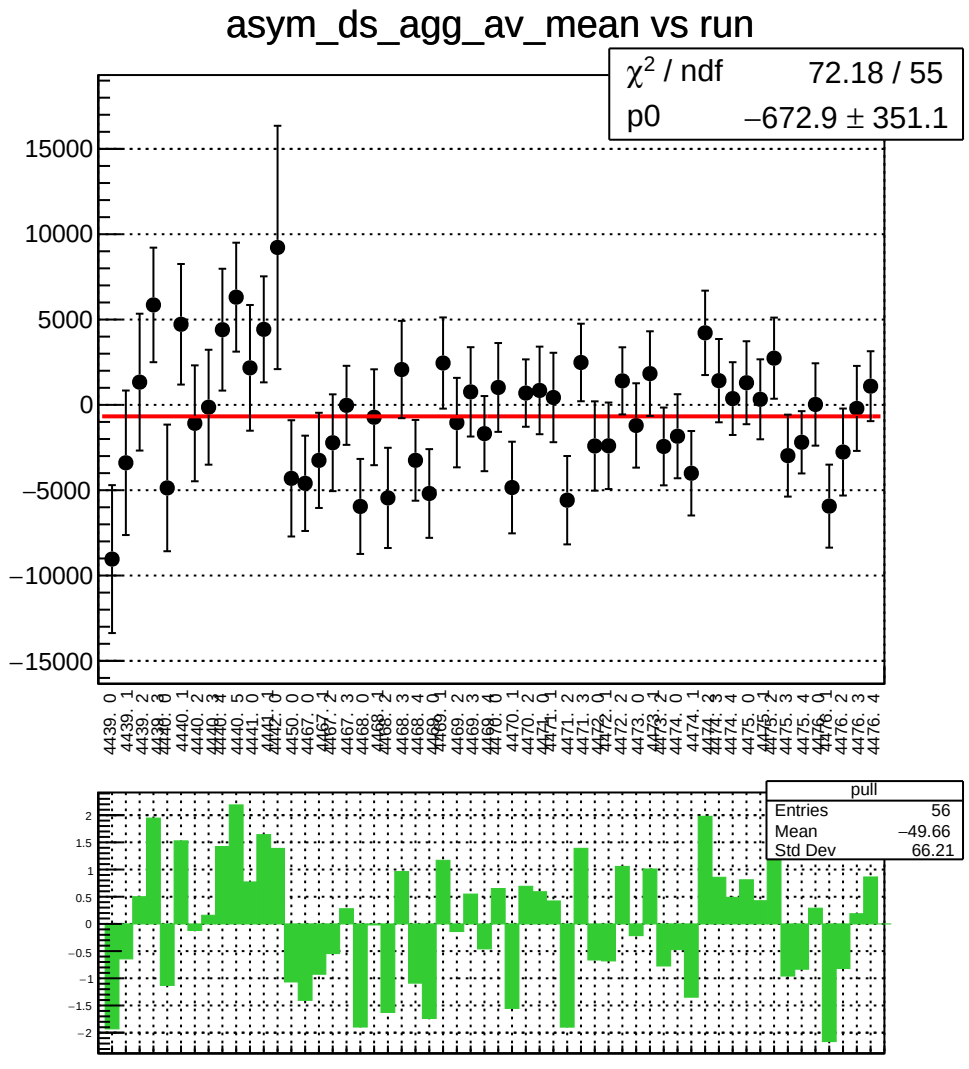

pull1D
Entries 56
Mean 0.02995
Std Dev 1.136
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

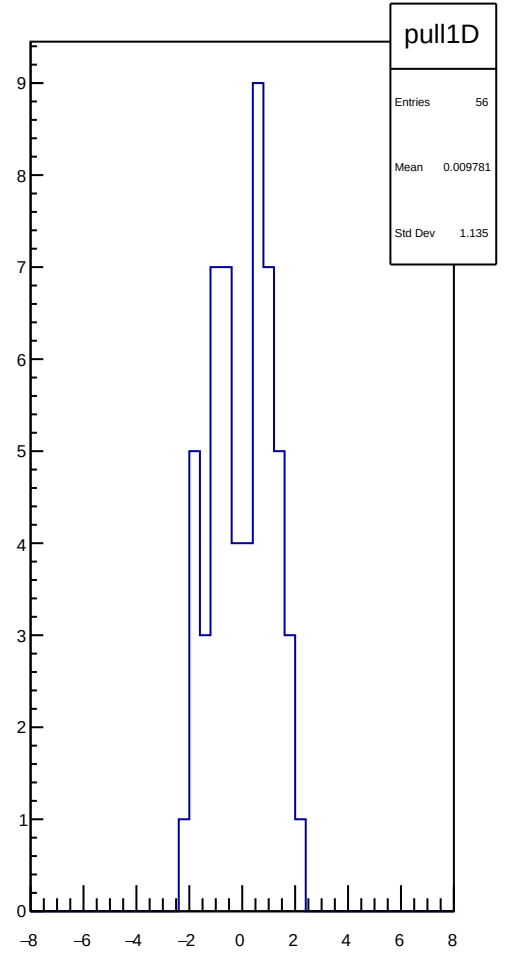

asym_us_agg_avg_rms vs run
χ² / ndf 2.787e+04 / 55
p0 229.9 ± 0.2236
400
350
300
250
200

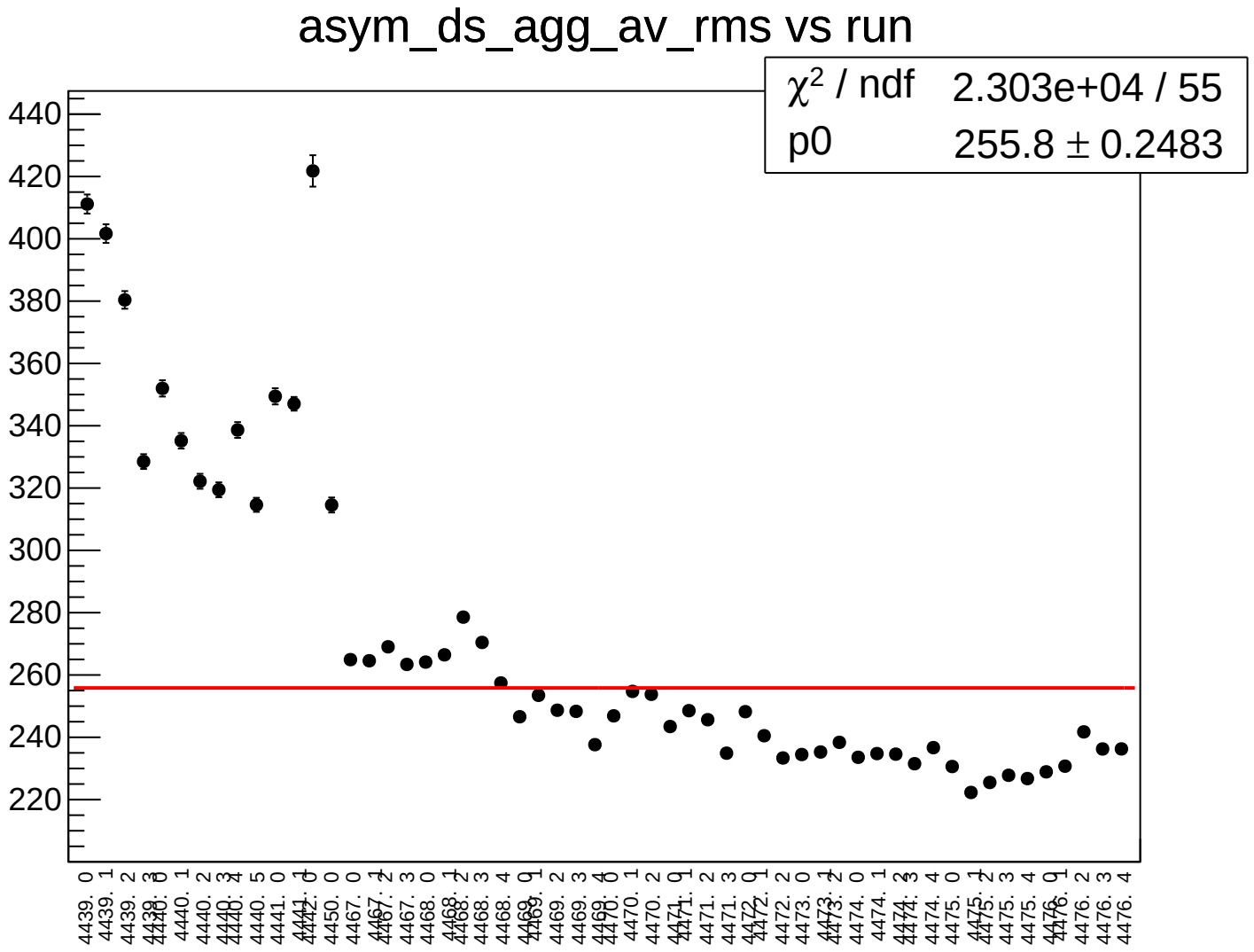

asym_us_agg_dd_mean vs run
χ² / ndf 53.11 / 55
p0 −1123 ± 653.3
20000
10000
0
−10000
−20000
pull
Entries 56
Mean −38.26
Std Dev 66.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

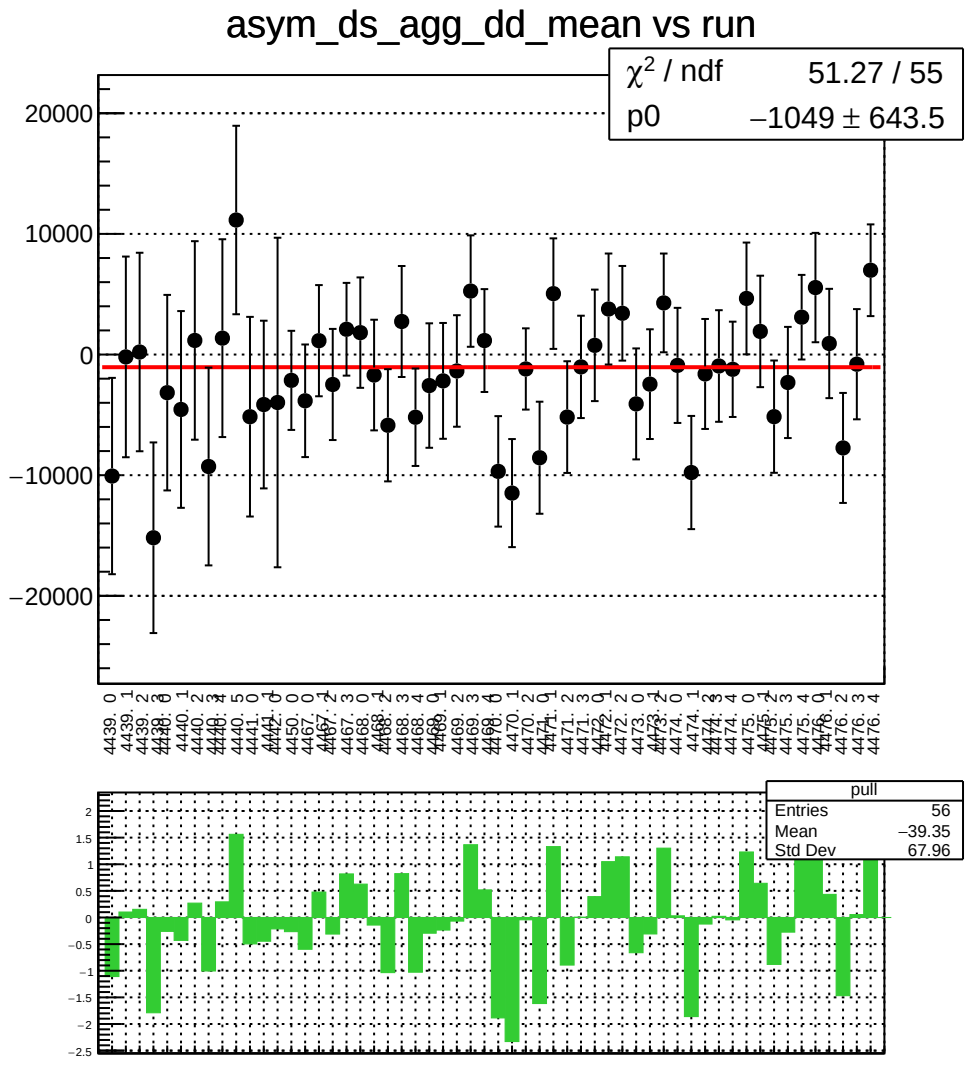

pull1D
Entries 56
Mean −0.0469
Std Dev 0.9727
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

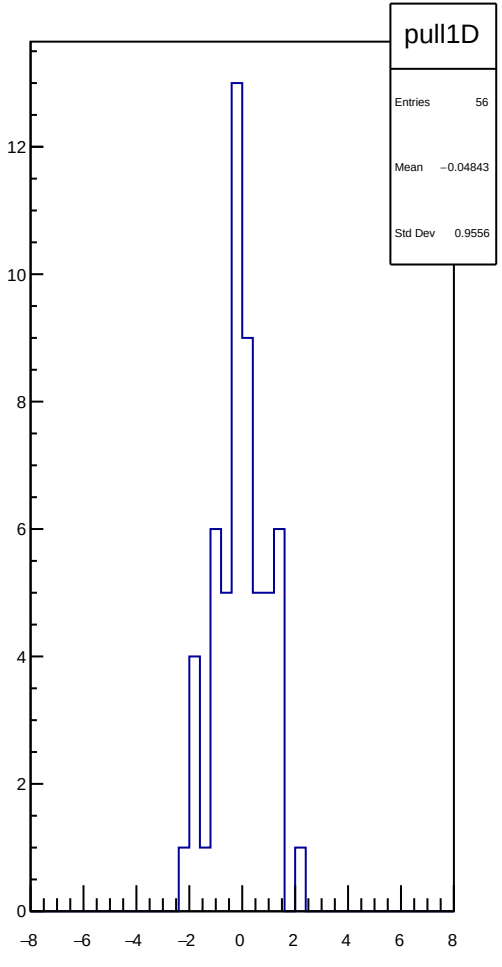

asym_us_agg_dd_rms vs run
χ^2 / ndf 4.135e+04 / 55
p0 472 ± 0.462
800
700
600
500
400
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

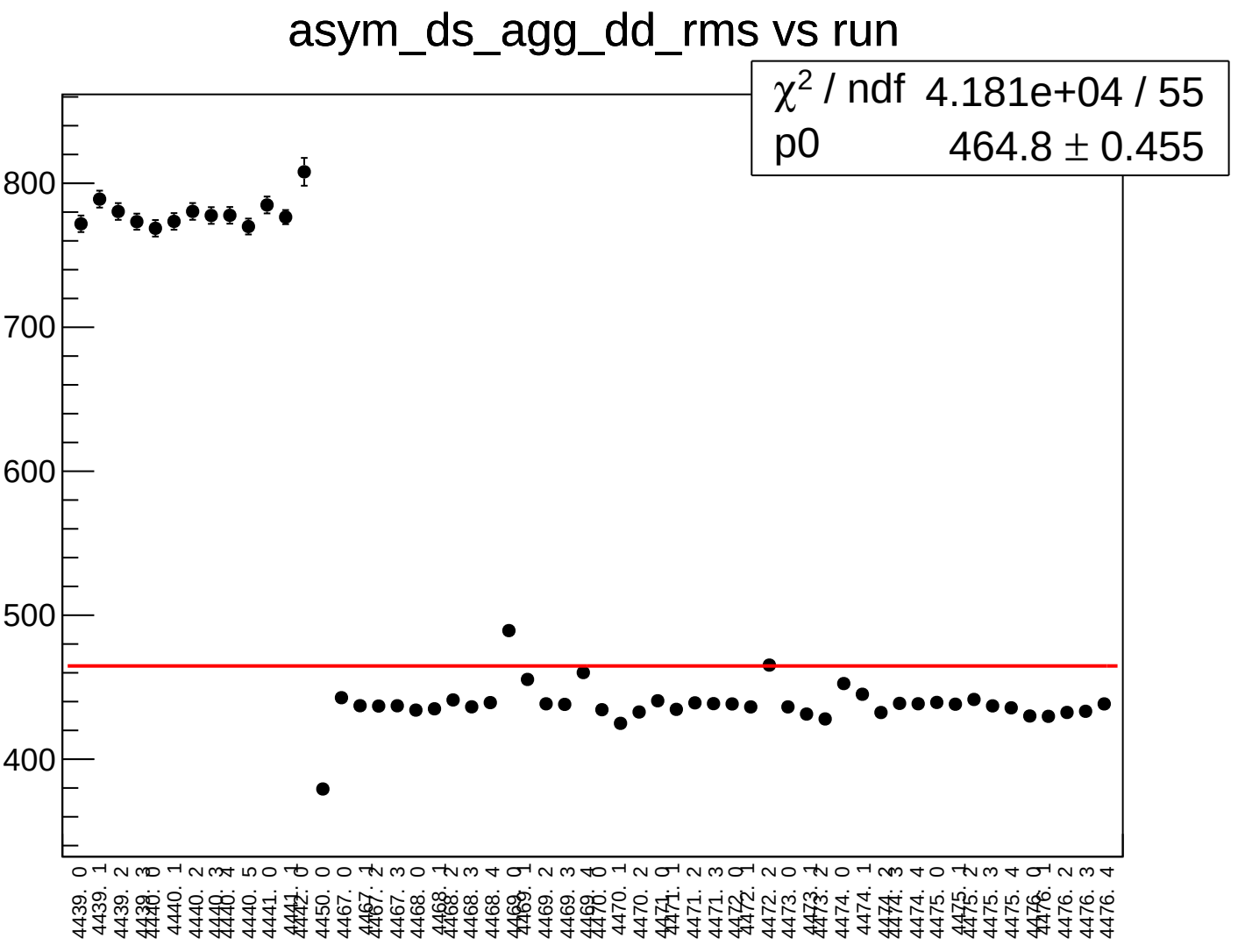

asym_ds_agg_av_mean vs run
χ² / ndf 72.18 / 55
p0 −672.9 ± 351.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 56
Mean −49.66
Std Dev 66.21
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

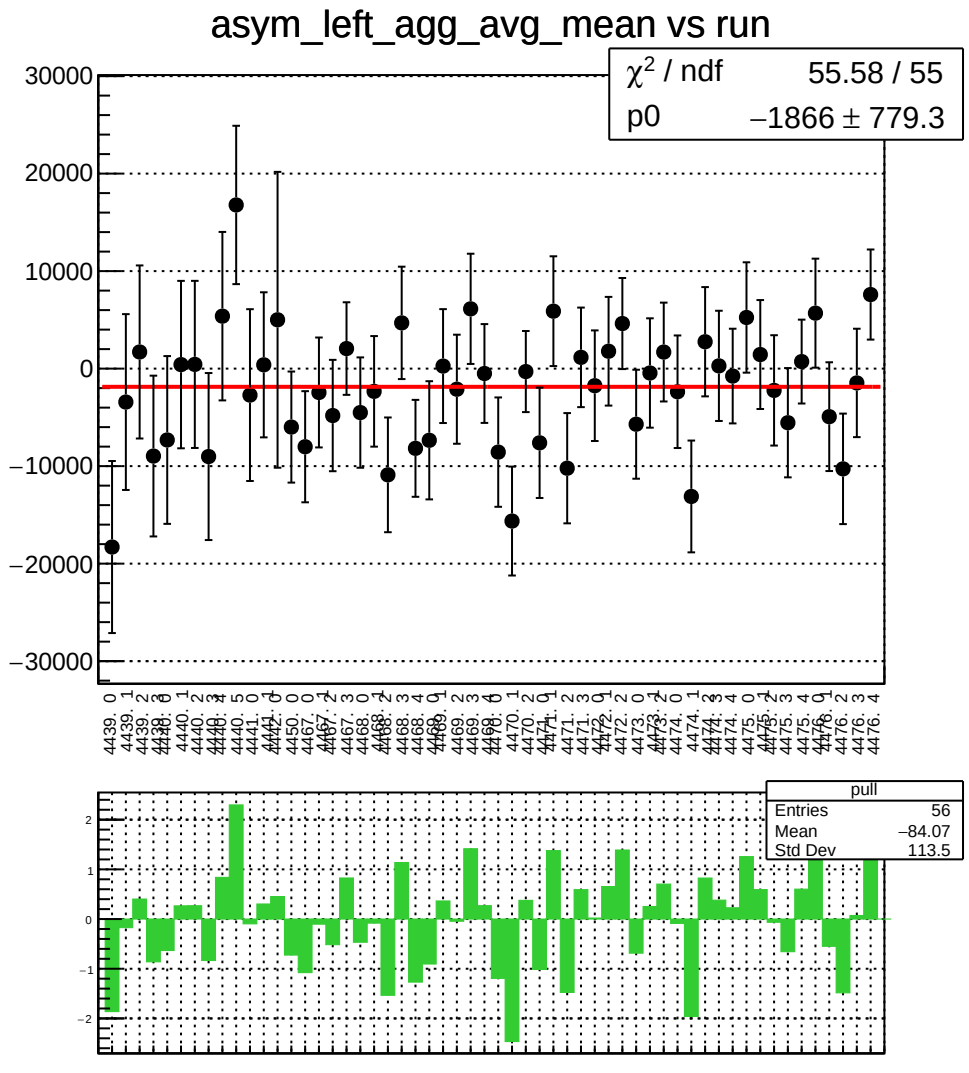

pull1D
Entries 56
Mean 0.009781
Std Dev 1.135
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

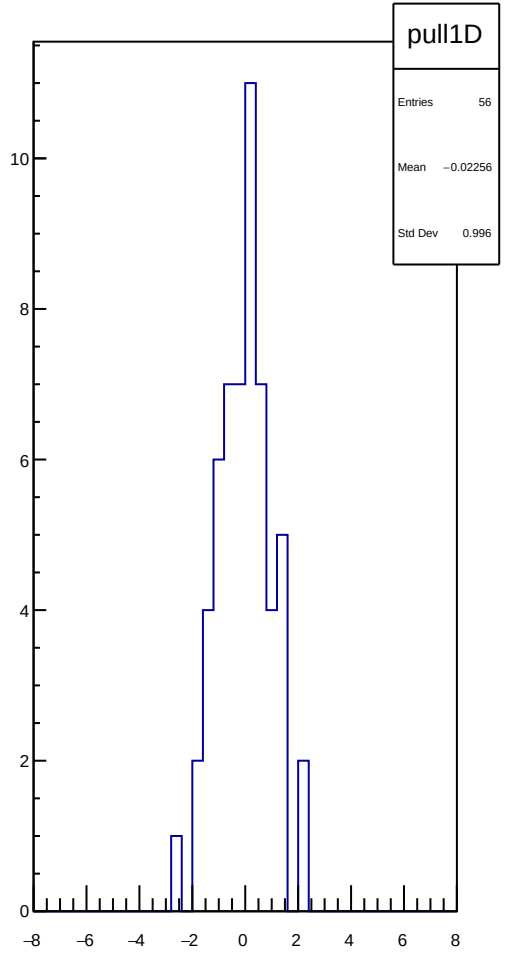

asym_ds_agg_av_rms vs run
χ² / ndf 2.303e+04 / 55
p0 255.8 ± 0.2483
440
420
400
380
360
340
320
300
280
260
240
220
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

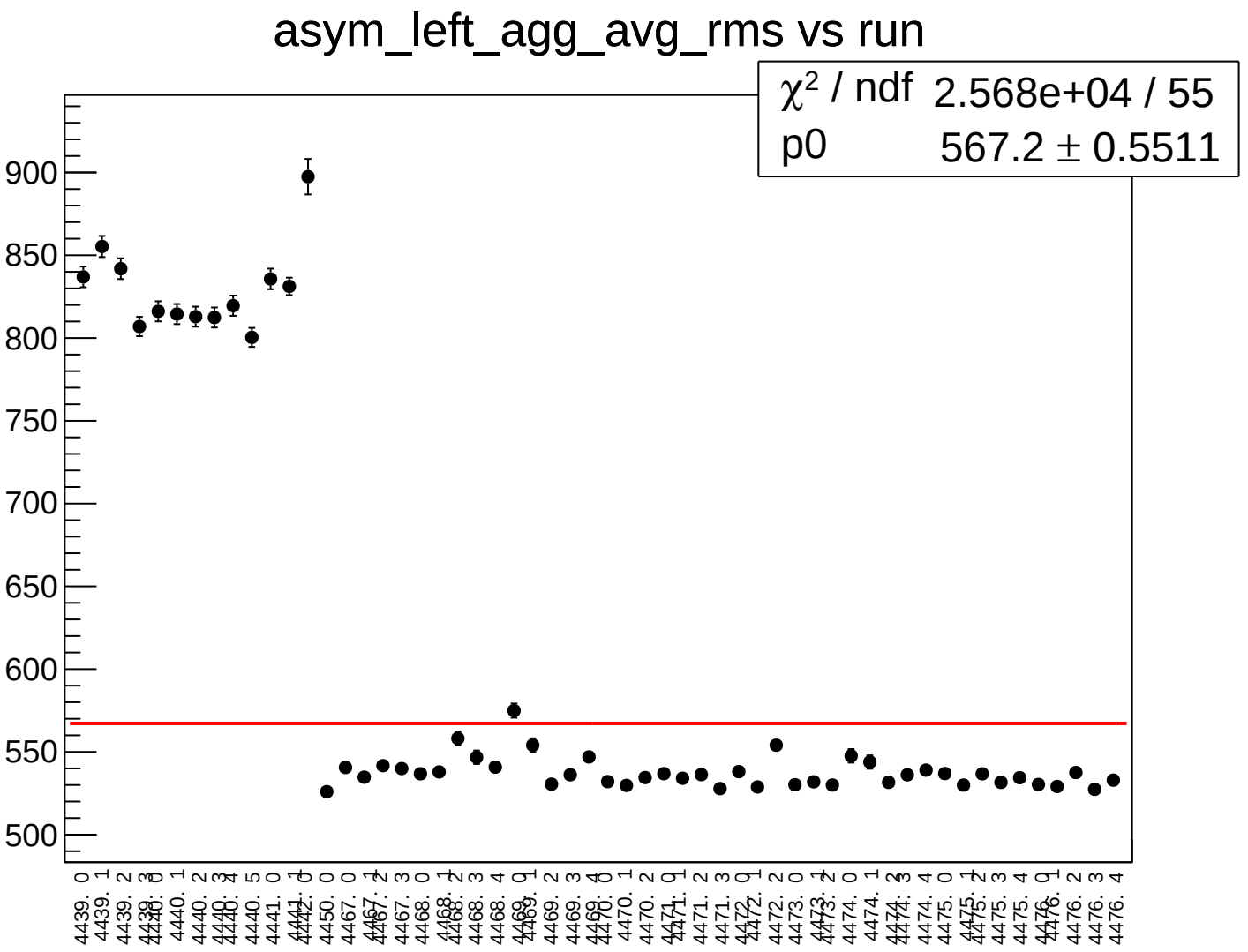

asym_ds_agg_dd_mean vs run
χ² / ndf 51.27 / 55
p0 −1049 ± 643.5
pull
Entries 56
Mean −39.35
Std Dev 67.96


pull1D
Entries 56
Mean −0.04843
Std Dev 0.9556


asym_ds_agg_dd_rms vs run
χ² / ndf 4.181e+04 / 55
p0 464.8 ± 0.455
800
700
600
500
400


asym_left_agg_avg_mean vs run
χ² / ndf 55.58 / 55
p0 −1866 ± 779.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 56
Mean −84.07
Std Dev 113.5
2
1
0
−1
−2


pull1D
Entries 56
Mean −0.02256
Std Dev 0.996
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_left_agg_avg_rms vs run
χ² / ndf 2.568e+04 / 55
p0 567.2 ± 0.5511
900
850
800
750
700
650
600
550
500
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
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4475. 4
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4476. 1
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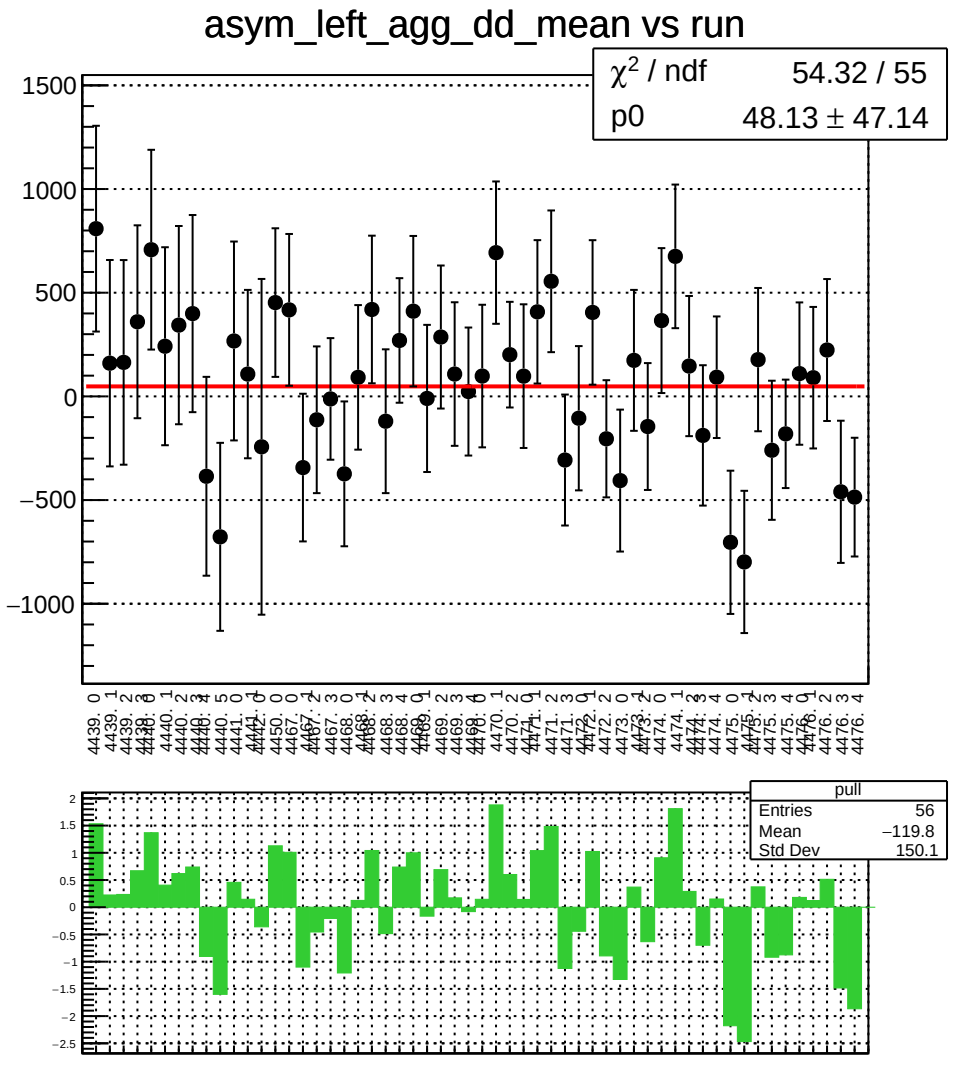
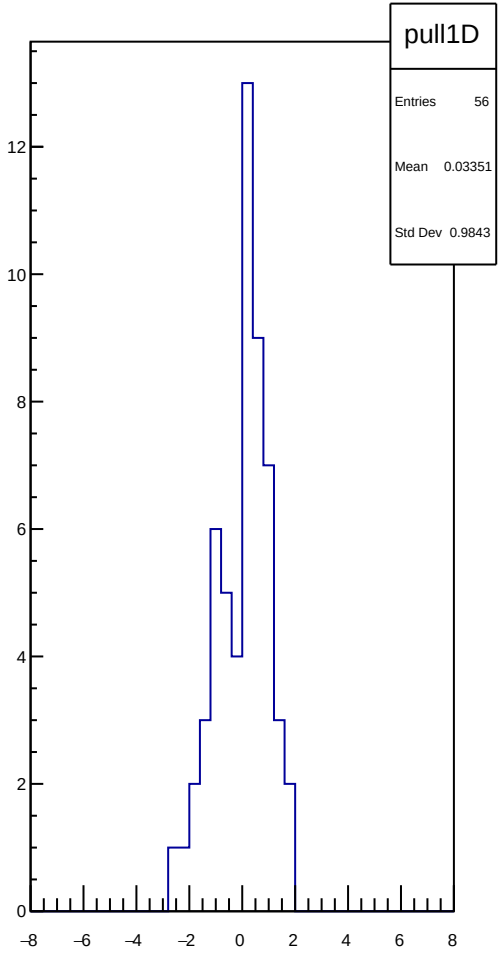
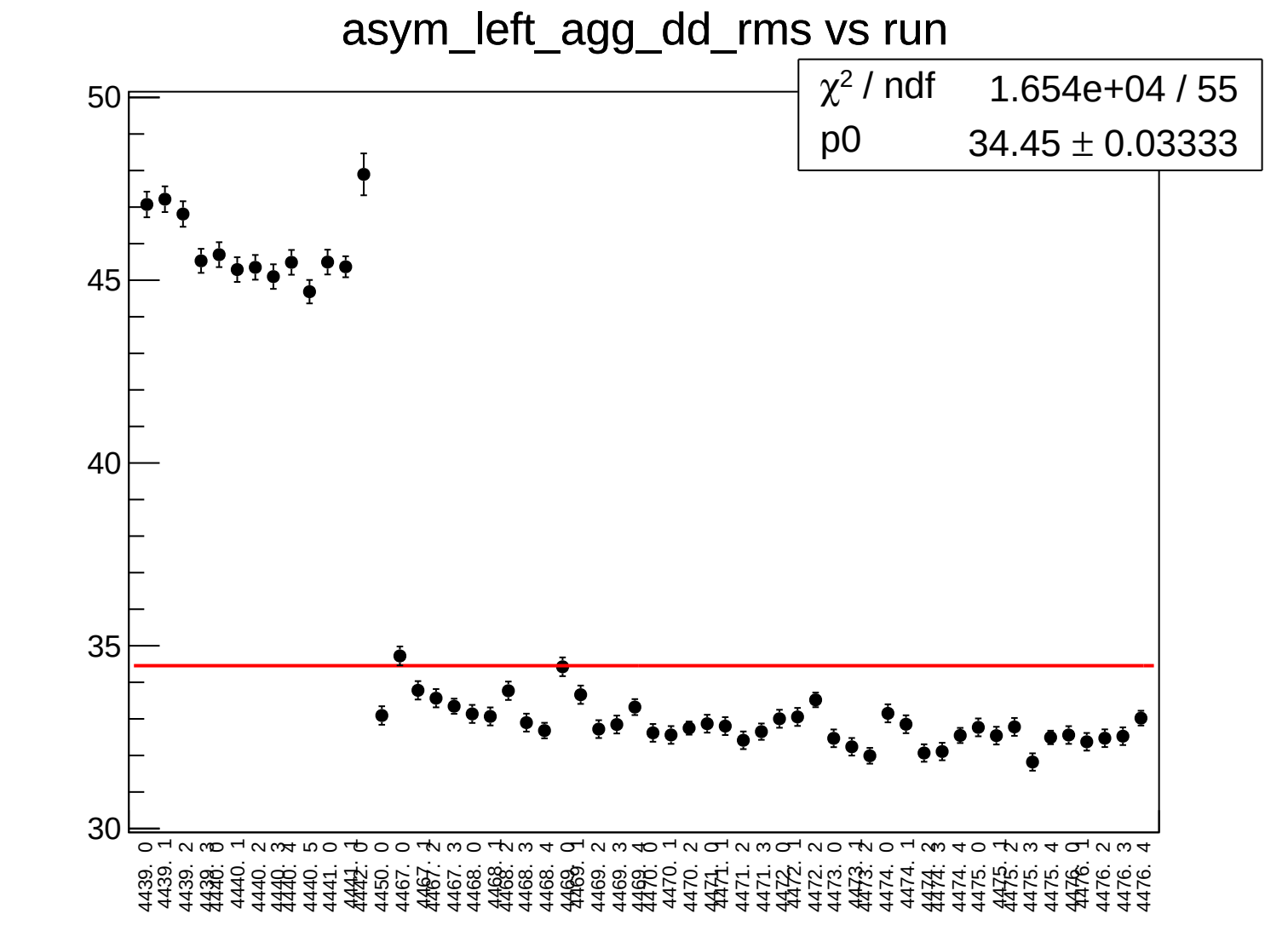
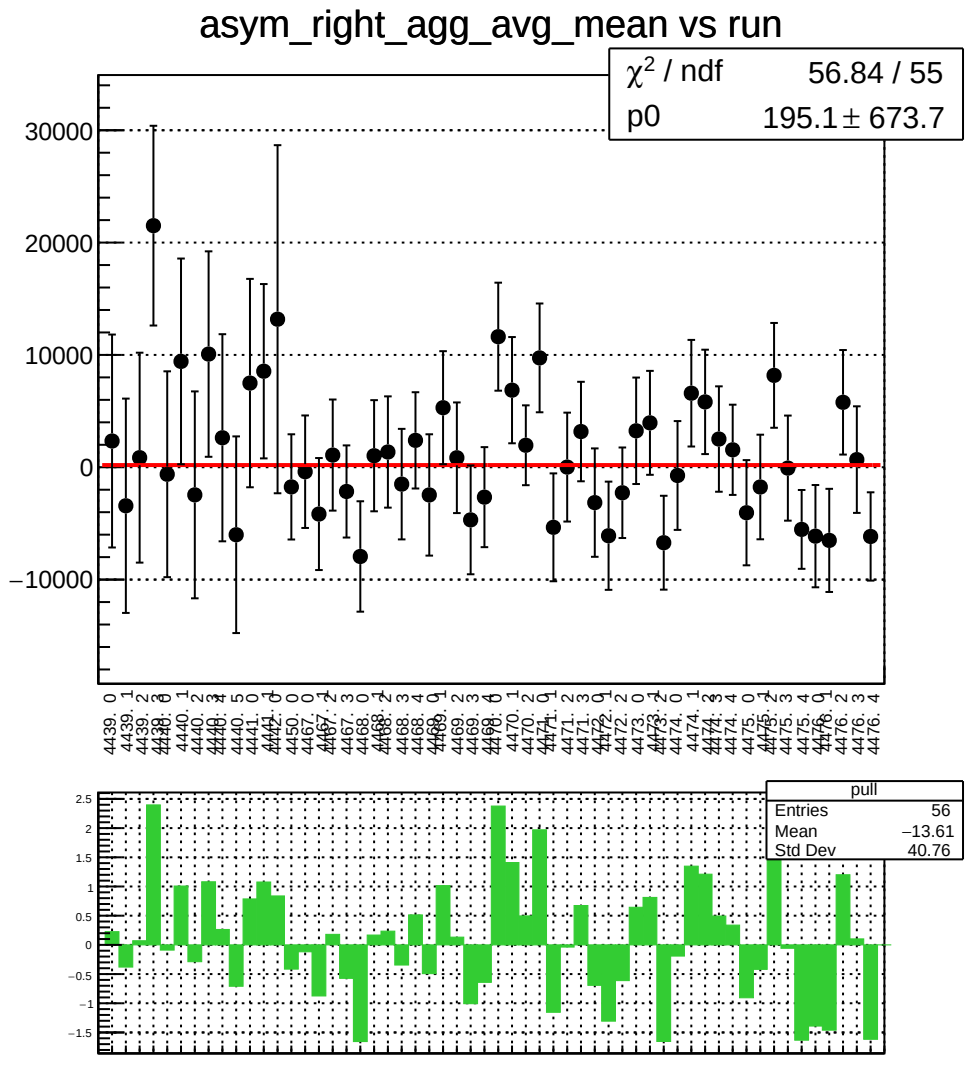
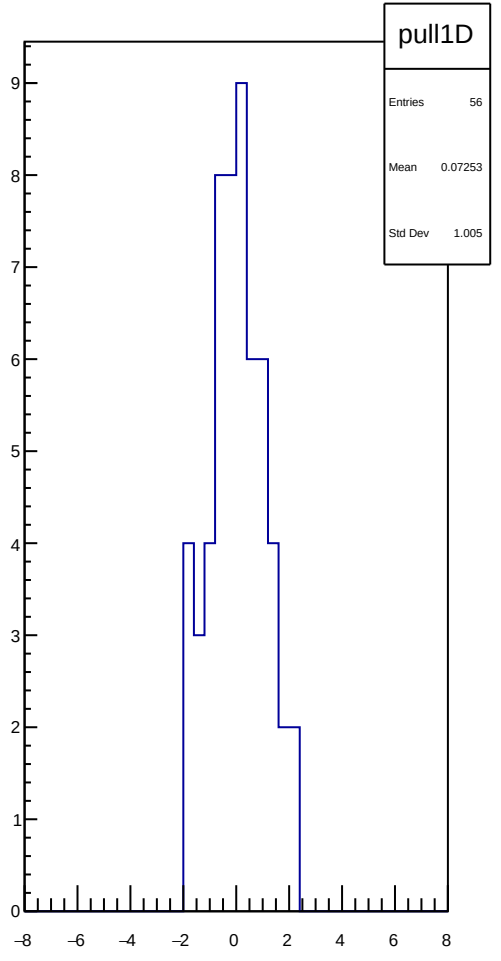
4476. 3
4476. 4

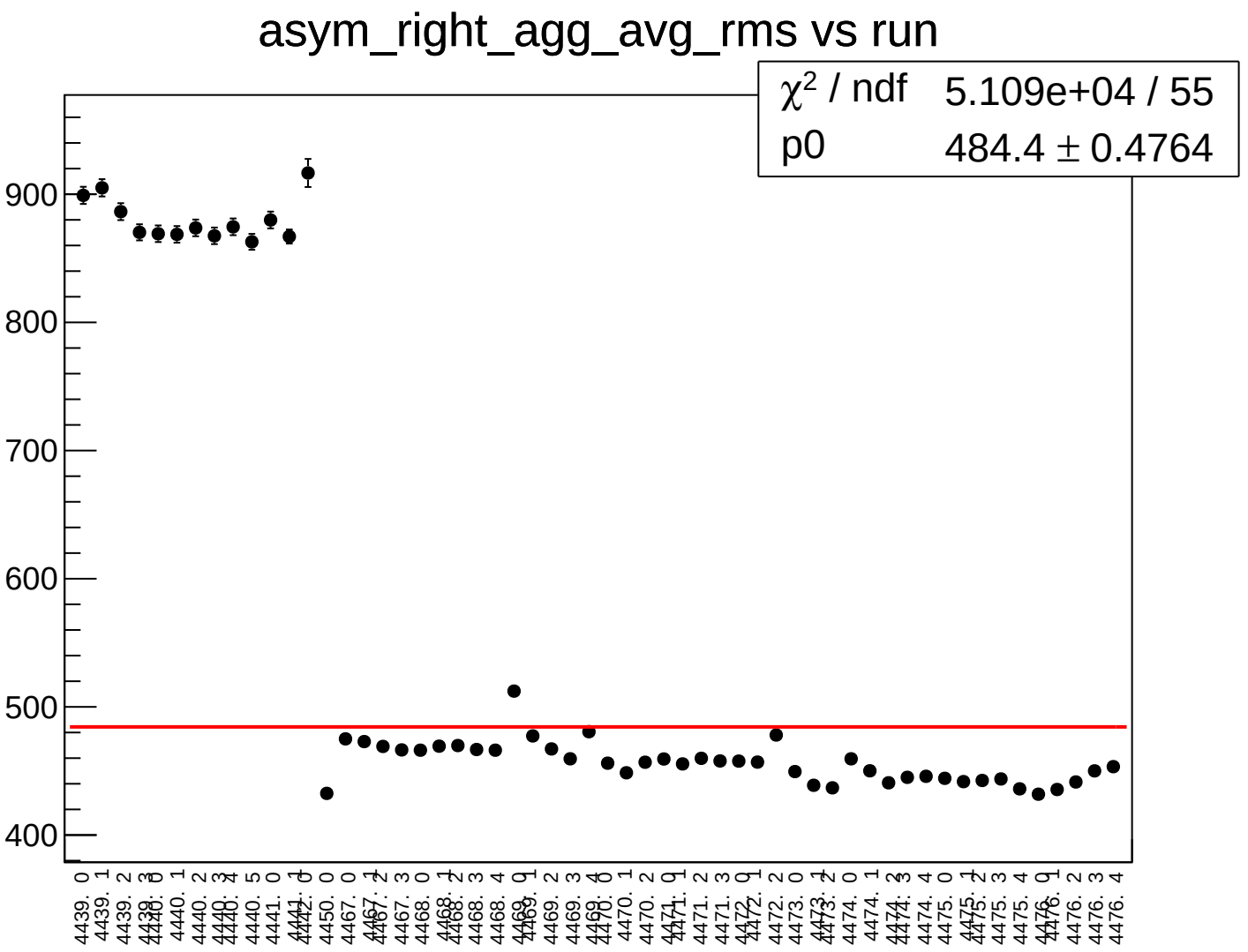

asym_left_agg_dd_mean vs run
χ² / ndf 54.32 / 55
p0 48.13 ± 47.14
pull
Entries 56
Mean −119.8
Std Dev 150.1

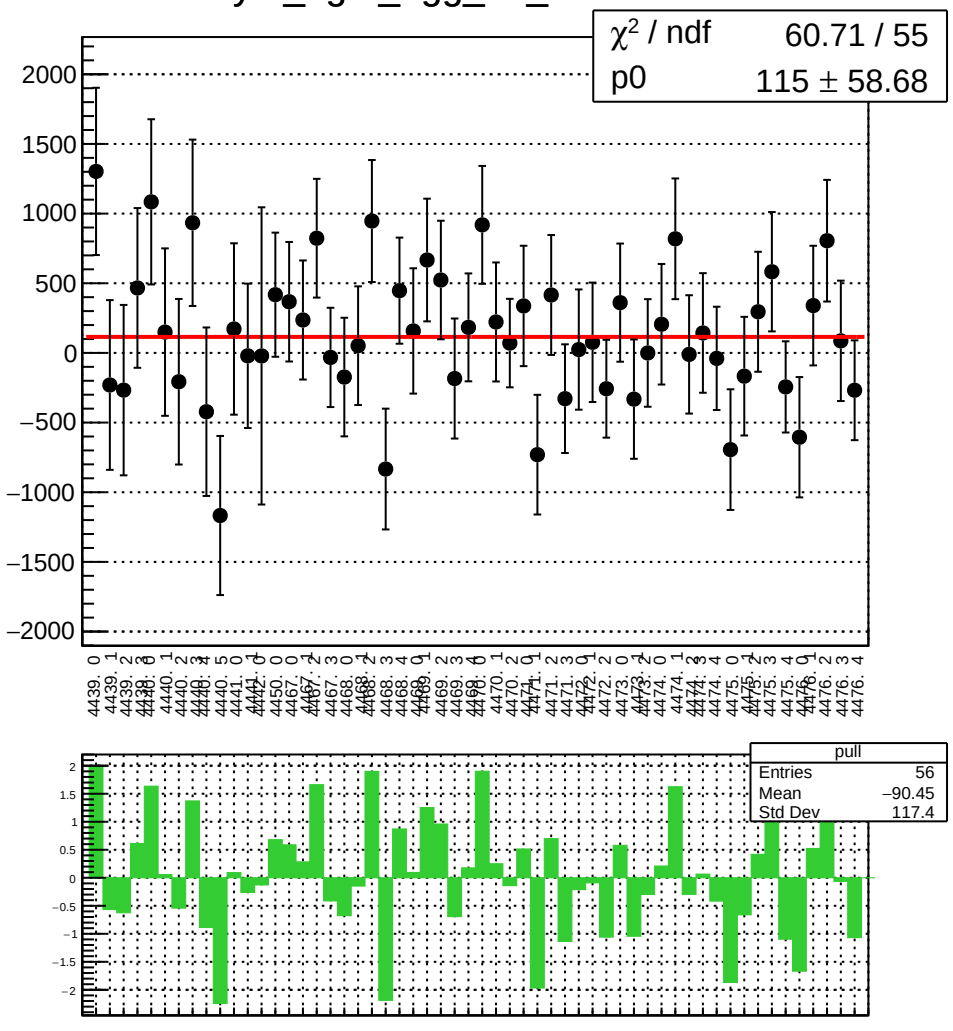

pull1D
Entries 56
Mean 0.03351
Std Dev 0.9843

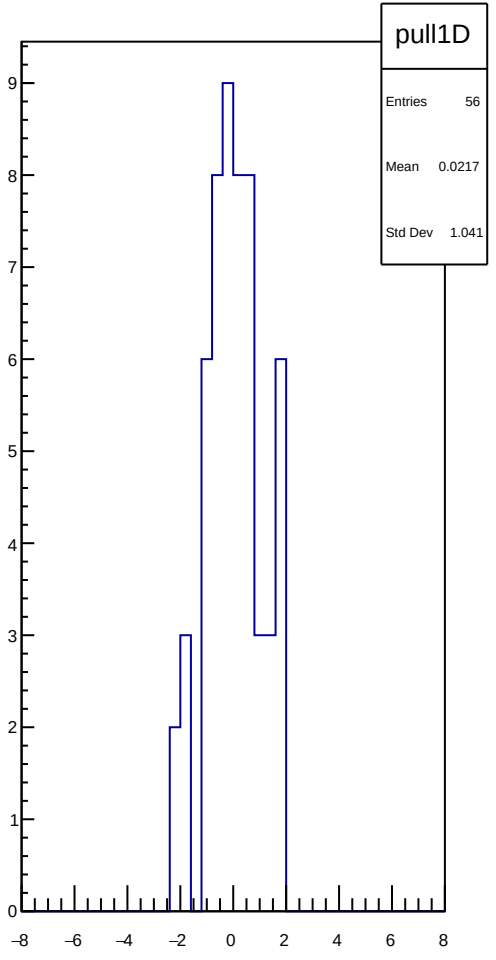

asym_left_agg_dd_rms vs run
χ² / ndf 1.654e+04 / 55
p0 34.45 ± 0.03333
50
45
40
35
30

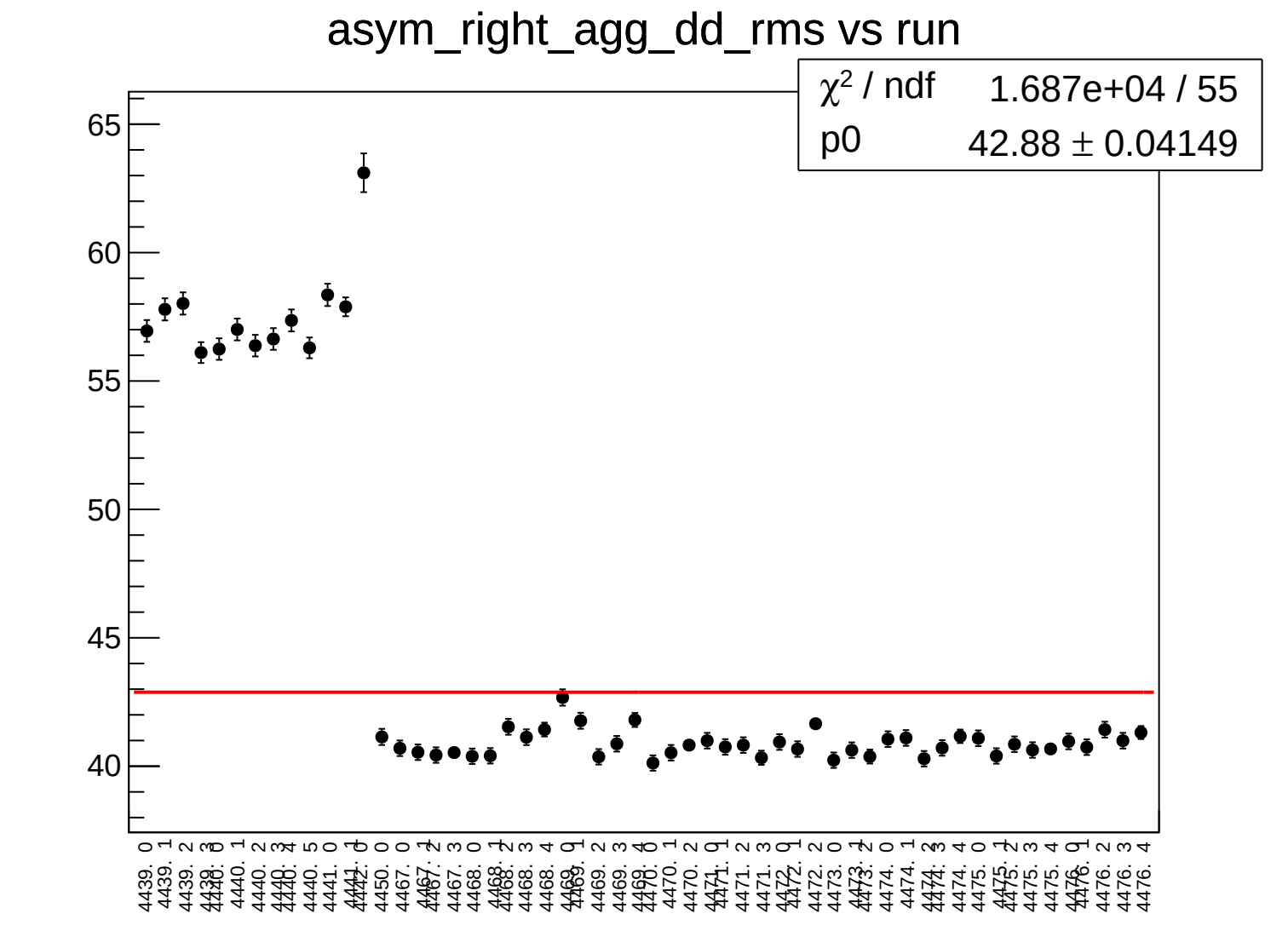

asym_right_agg_avg_mean vs run
χ² / ndf 56.84 / 55
p0 195.1 ± 673.7
30000
20000
10000
0
−10000
pull
Entries 56
Mean −13.61
Std Dev 40.76
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

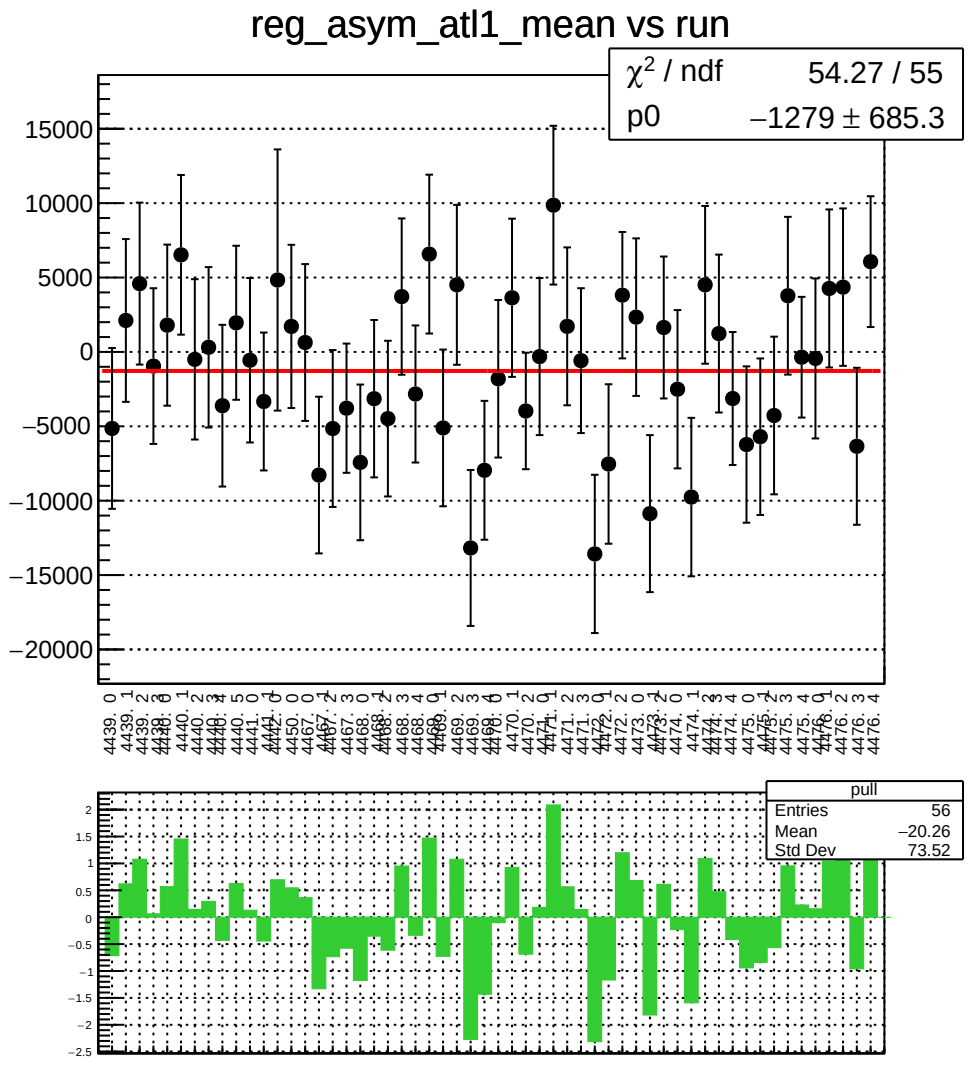

pull1D
Entries 56
Mean 0.07253
Std Dev 1.005
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

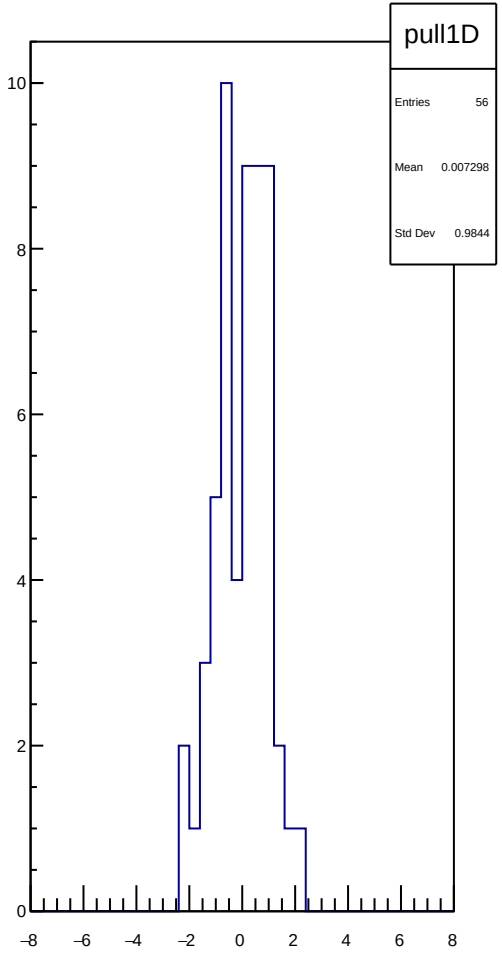

asym_right_agg_avg_rms vs run
χ² / ndf 5.109e+04 / 55
p0 484.4 ± 0.4764
900
800
700
600
500
400
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

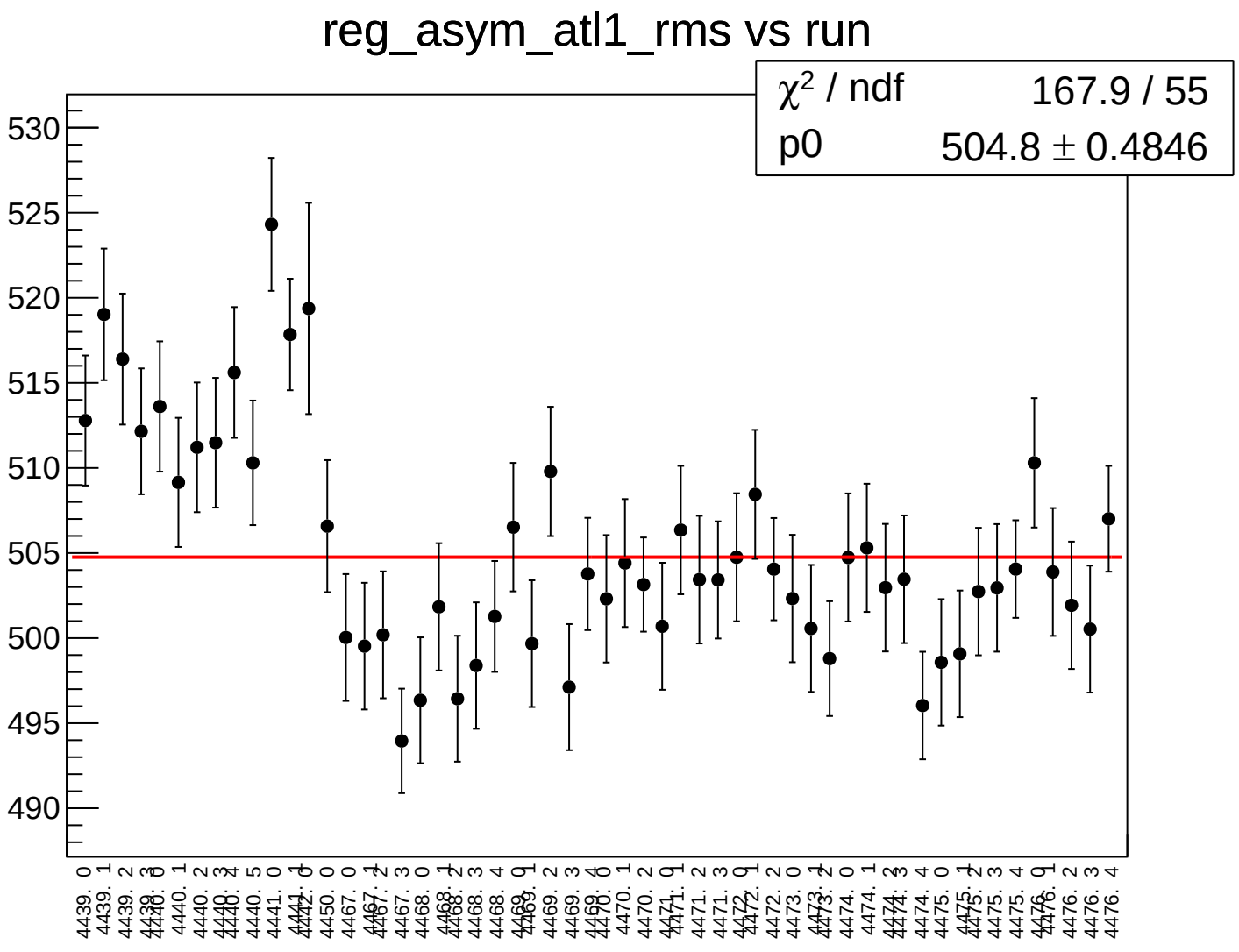

asym_right_agg_dd_mean vs run
χ² / ndf 60.71 / 55
p0 115 ± 58.68
pull
Entries 56
Mean −90.45
Std Dev 117.4

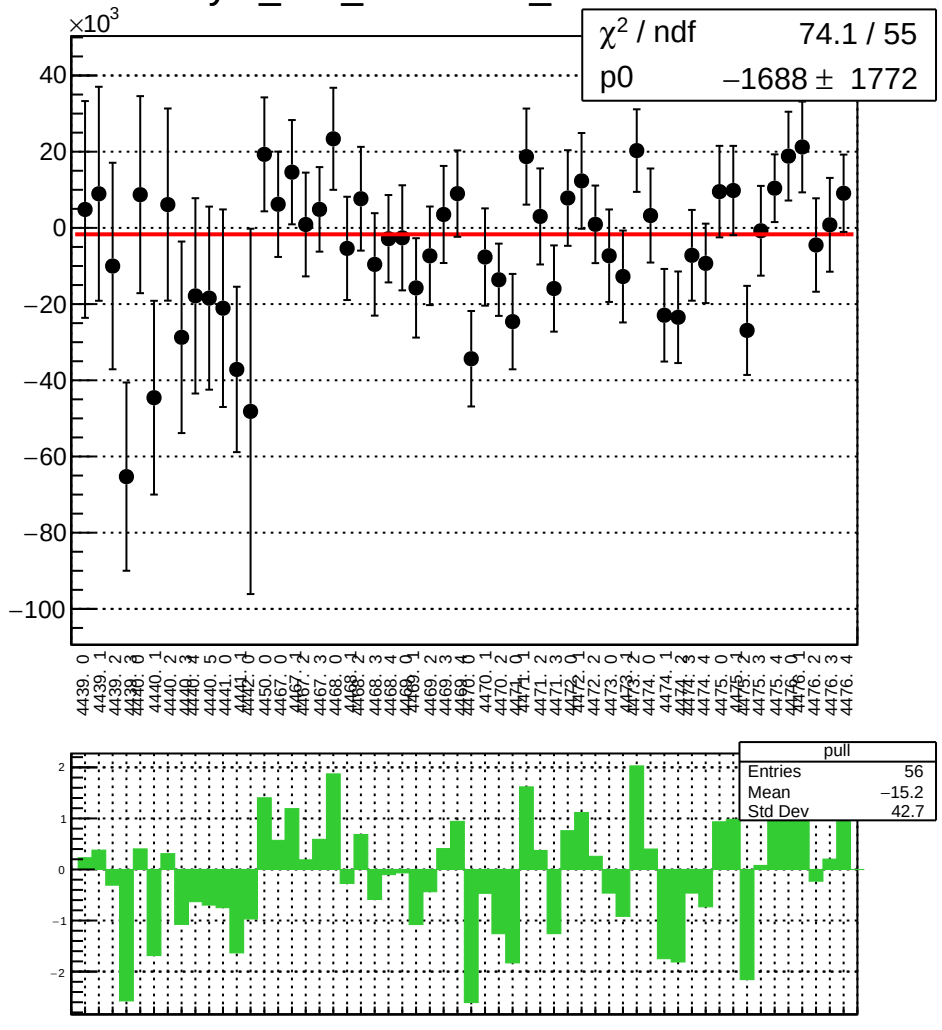

pull1D
Entries 56
Mean 0.0217
Std Dev 1.041

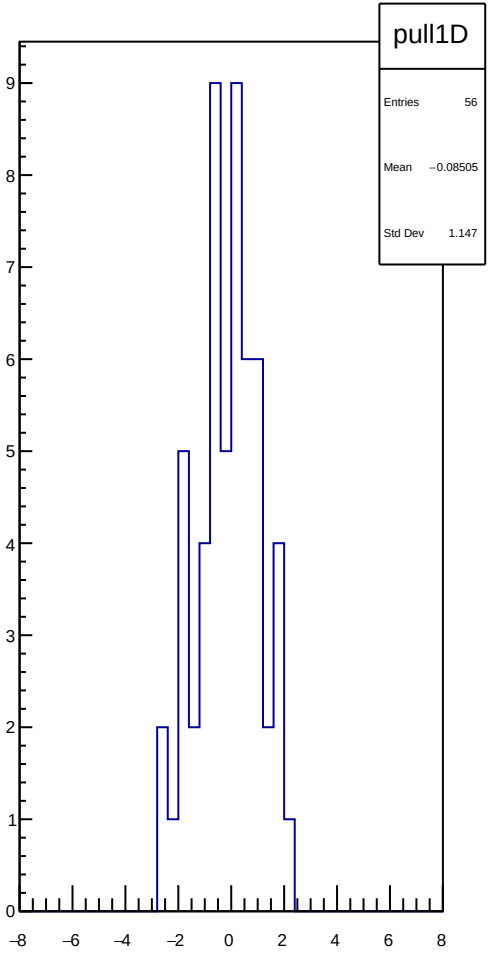

asym_right_agg_dd_rms vs run
χ² / ndf 1.687e+04 / 55
p0 42.88 ± 0.04149
65
60
55
50
45
40

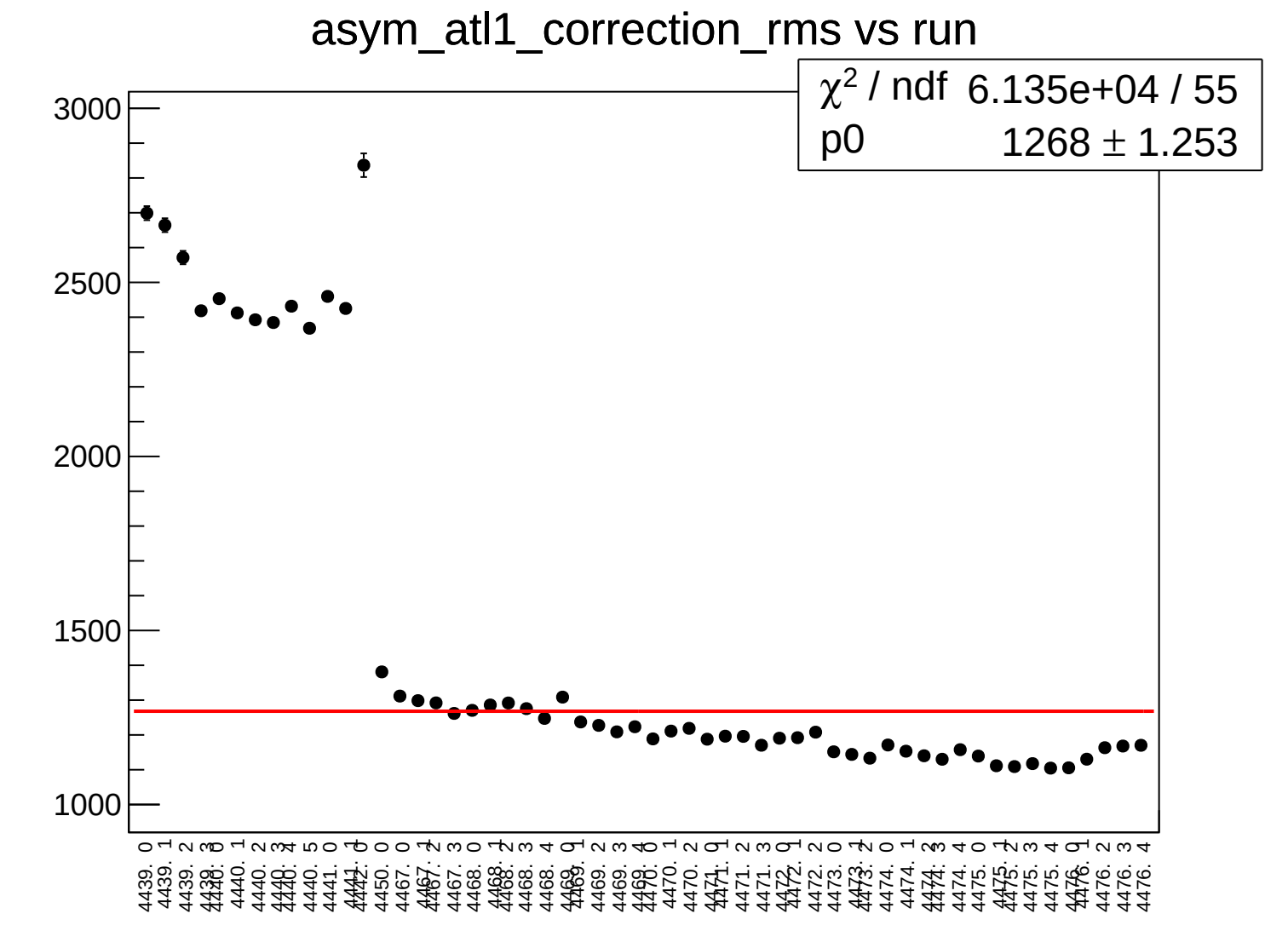

reg_asym_atl1_mean vs run
χ² / ndf 54.27 / 55
p0 −1279 ± 685.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 56
Mean −20.26
Std Dev 73.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

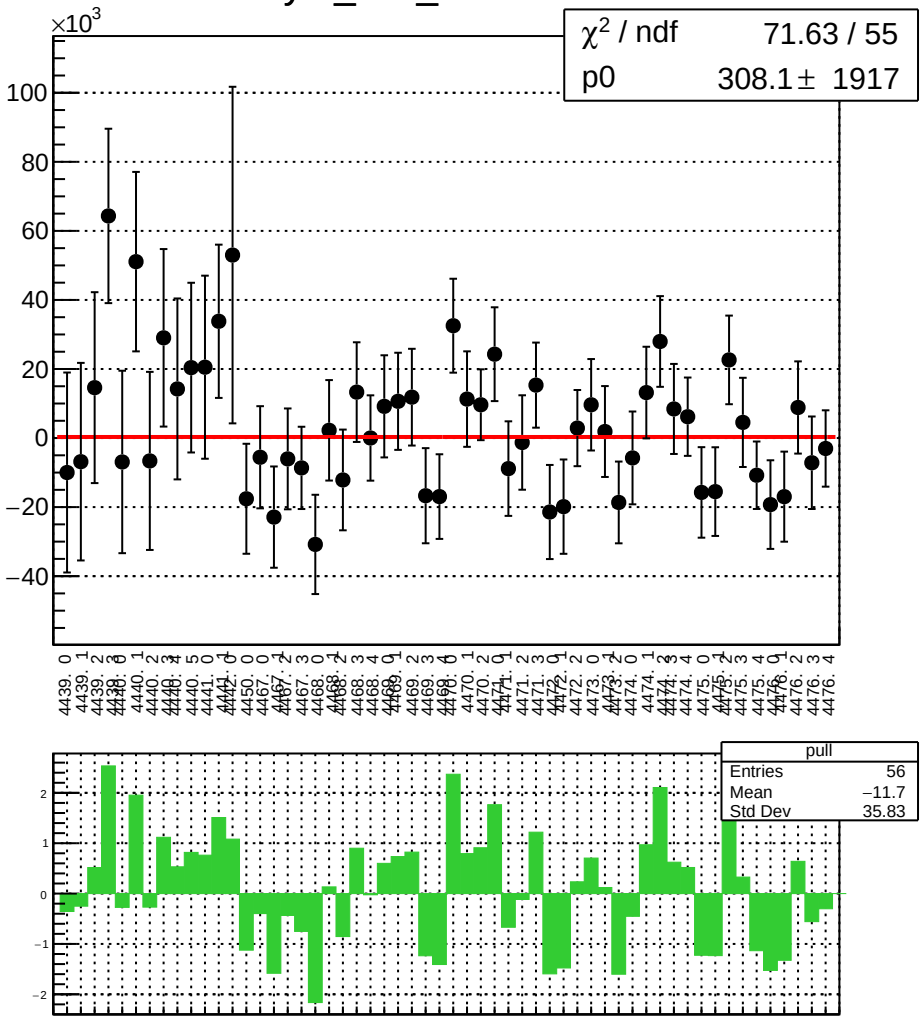

pull1D
Entries 56
Mean 0.007298
Std Dev 0.9844
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

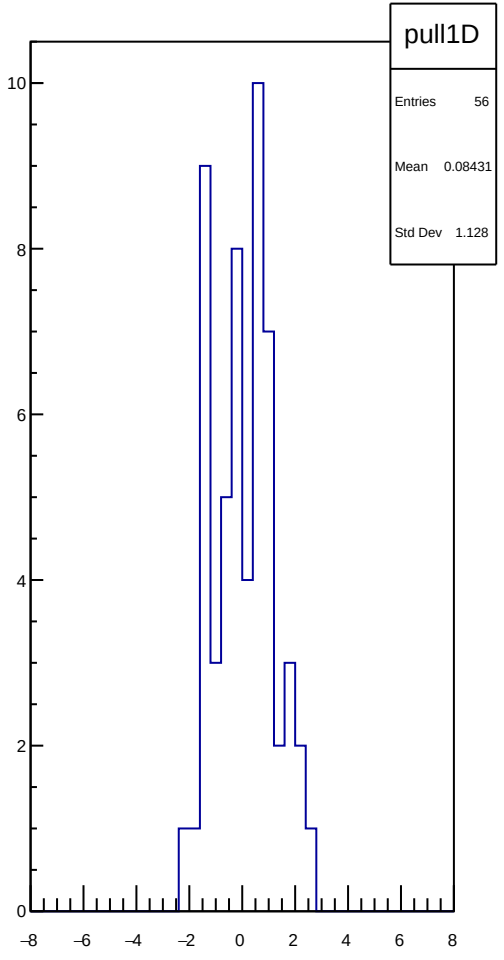

reg_asym_atl1_rms vs run
χ² / ndf 167.9 / 55
p0 504.8 ± 0.4846
530
525
520
515
510
505
500
495
490

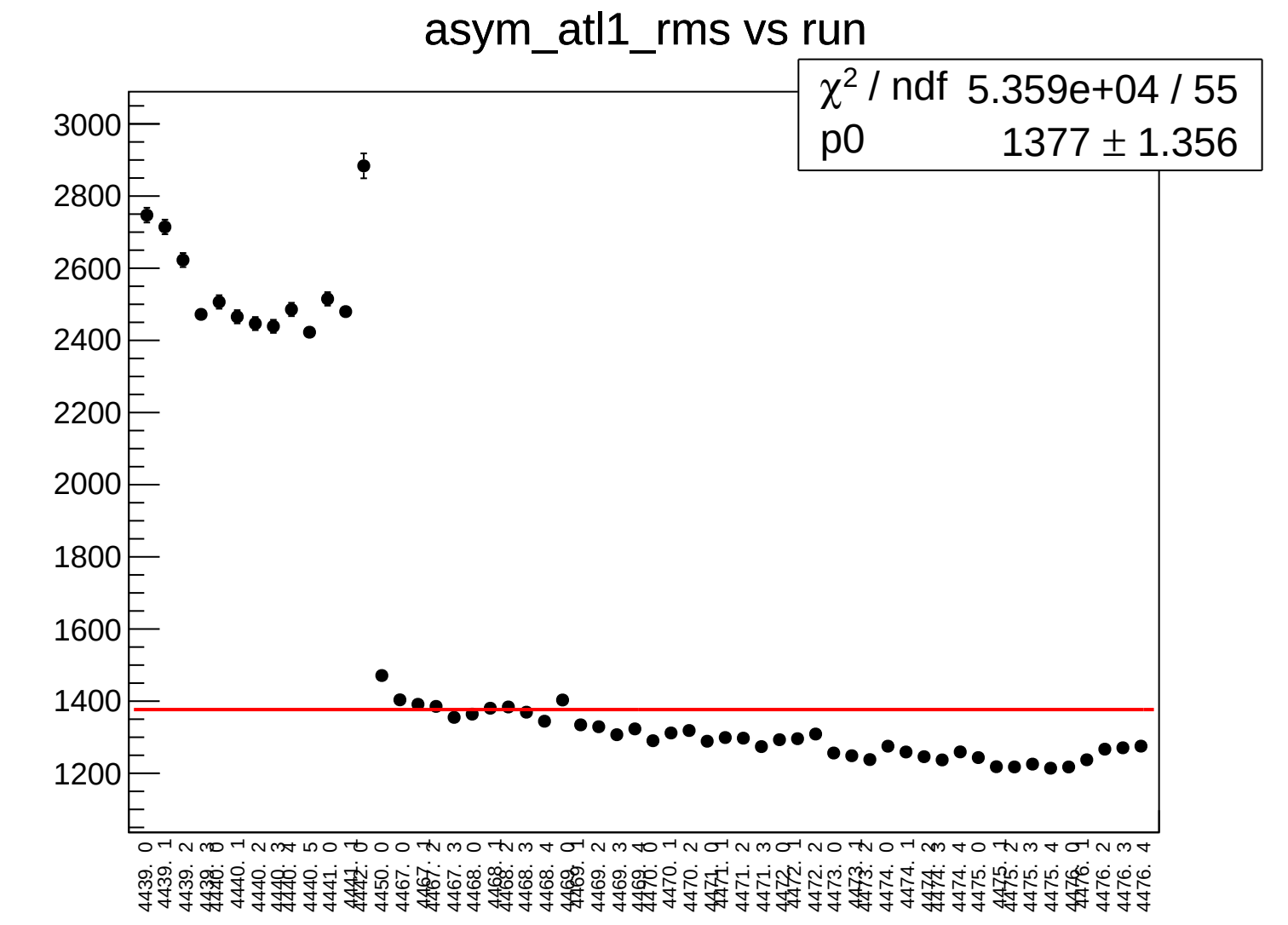

asym_atl1_correction_mean vs run
×10^3
χ² / ndf 74.1 / 55
p0 −1688 ± 1772
pull
Entries 56
Mean −15.2
Std Dev 42.7

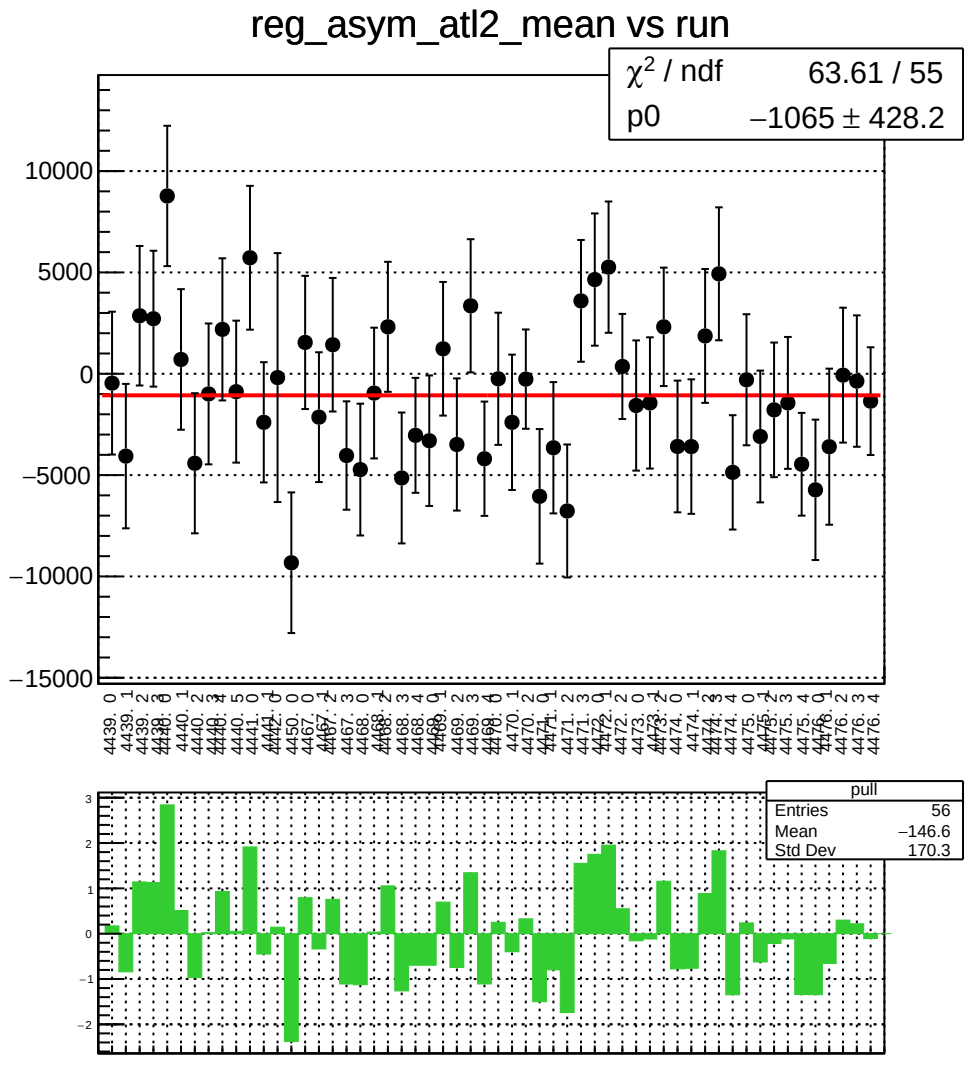

pull1D
Entries 56
Mean −0.08505
Std Dev 1.147

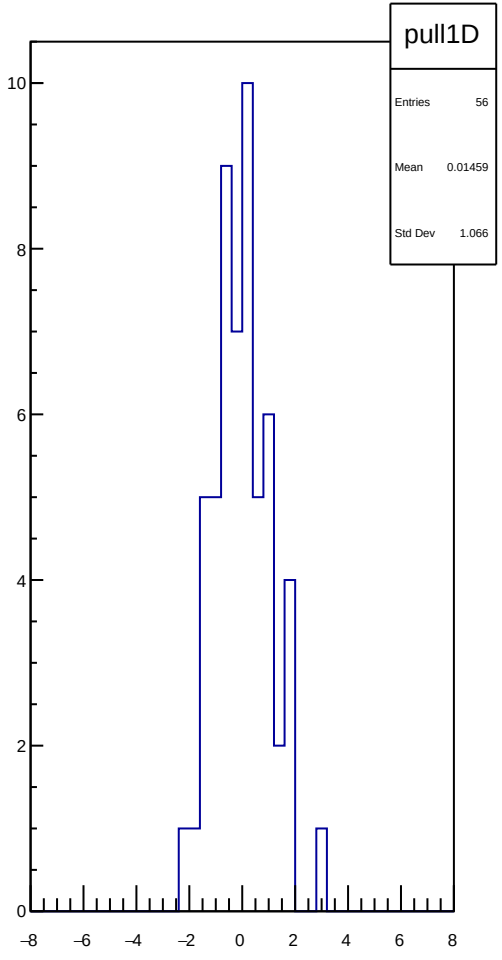

asym_atl1_correction_rms vs run
χ² / ndf 6.135e+04 / 55
p0 1268 ± 1.253
3000
2500
2000
1500
1000
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

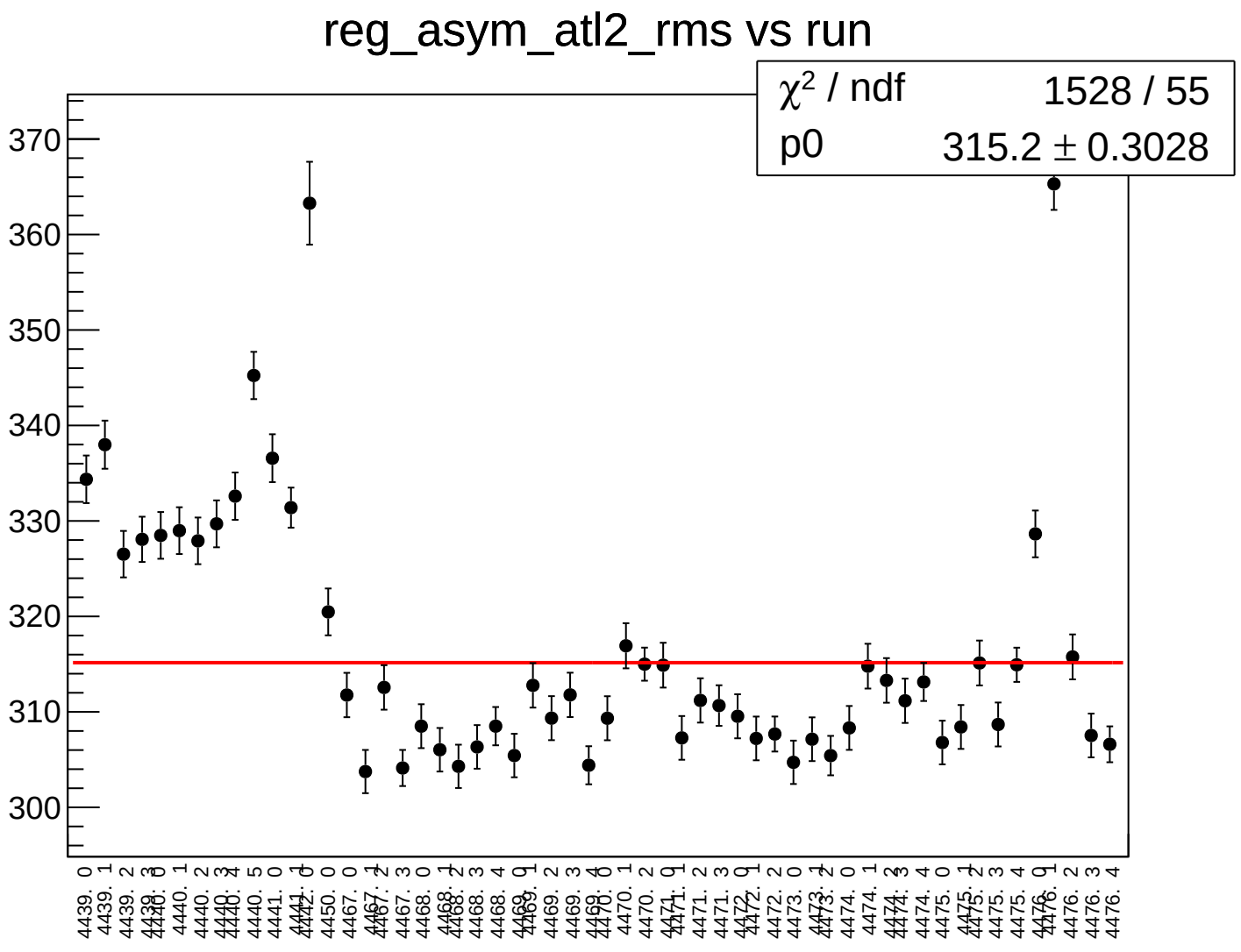

asym_atl1_mean vs run
×10^3
χ^2 / ndf 71.63 / 55
p0 308.1± 1917
pull
Entries 56
Mean −11.7
Std Dev 35.83

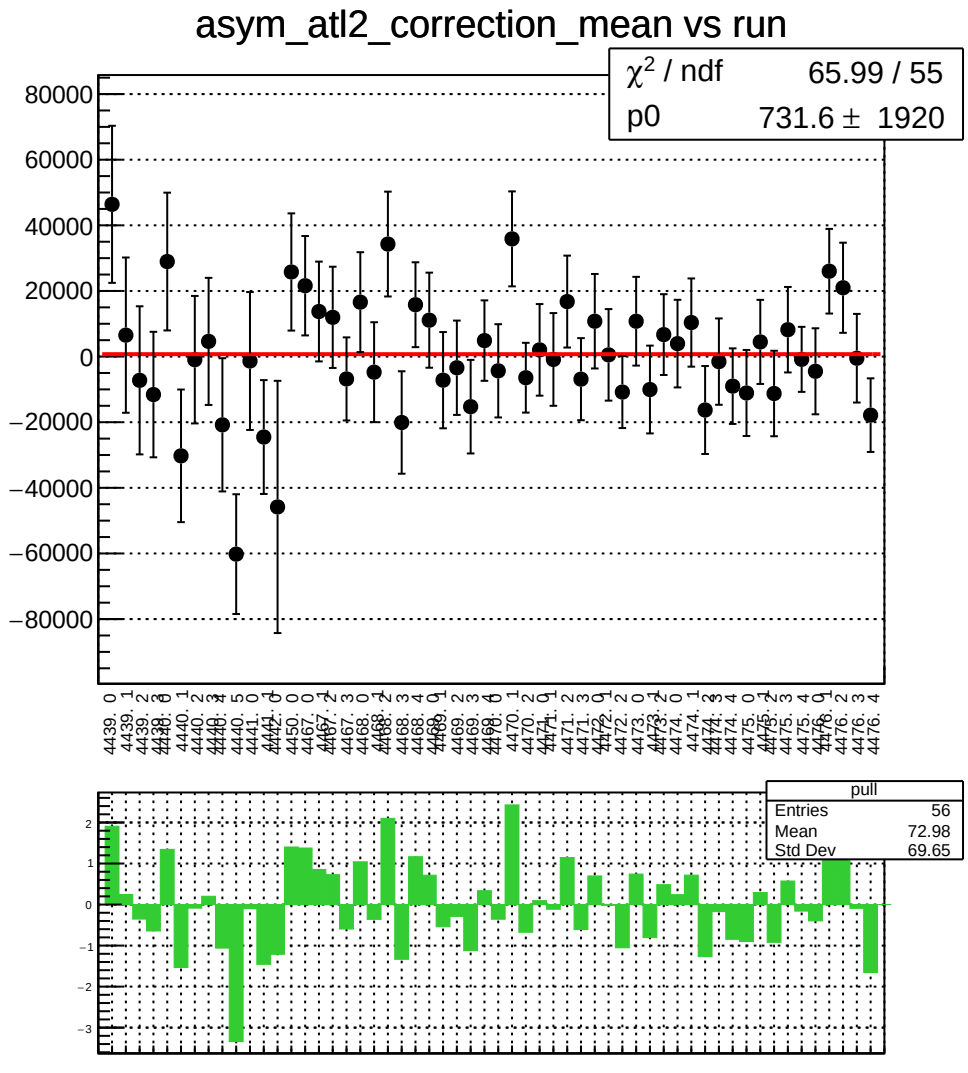

pull1D
Entries 56
Mean 0.08431
Std Dev 1.128

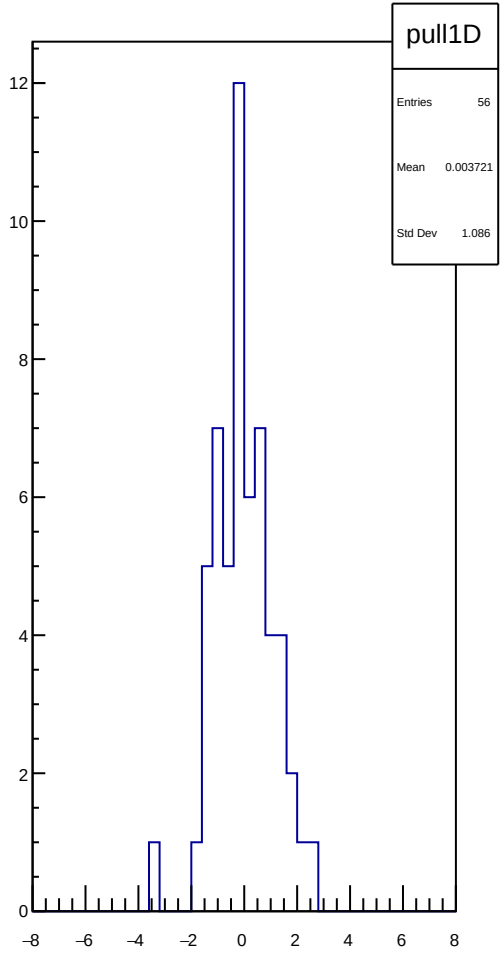

asym_atl1_rms vs run
χ² / ndf 5.359e+04 / 55
p0 1377 ± 1.356
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

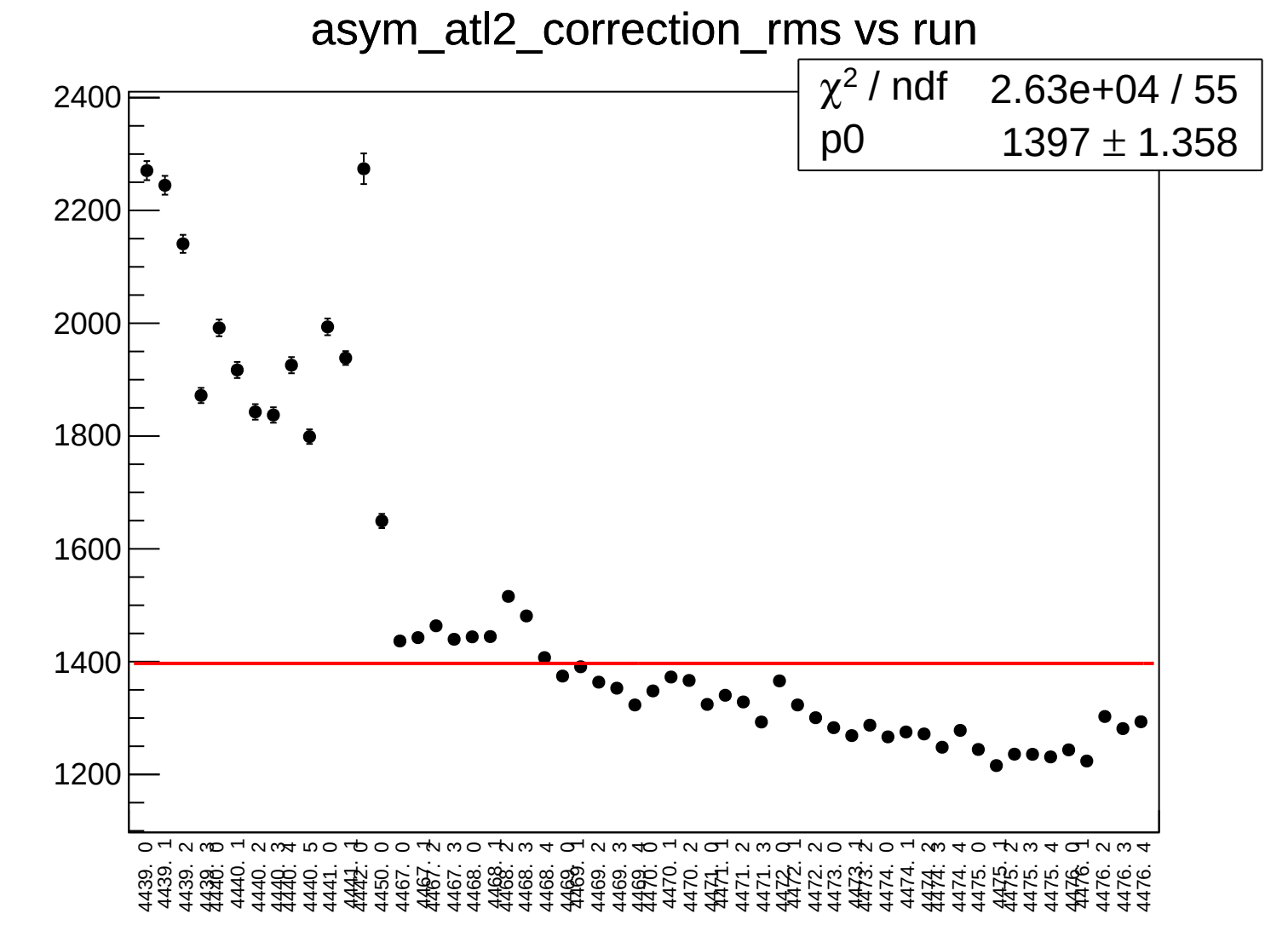

reg_asym_atl2_mean vs run
χ² / ndf 63.61 / 55
p0 −1065 ± 428.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 56
Mean −146.6
Std Dev 170.3
3
2
1
0
−1
−2

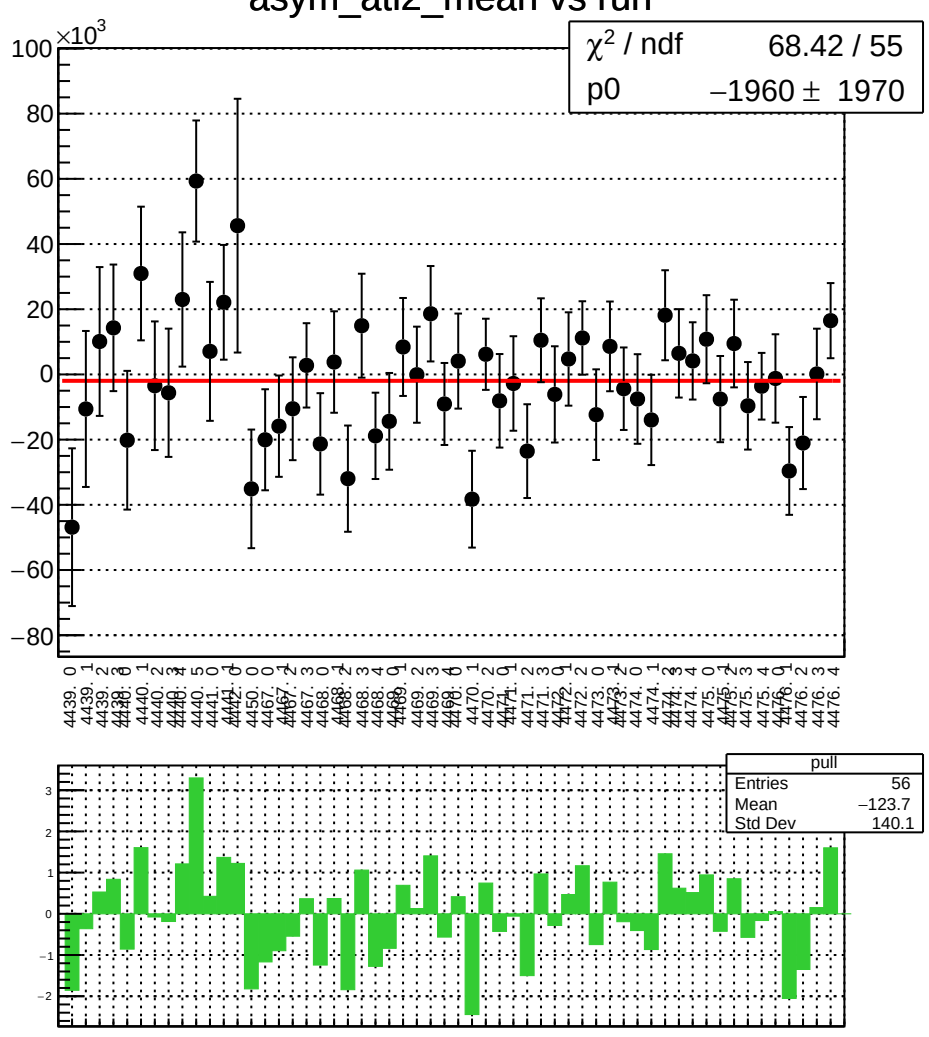

pull1D
Entries 56
Mean 0.01459
Std Dev 1.066
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

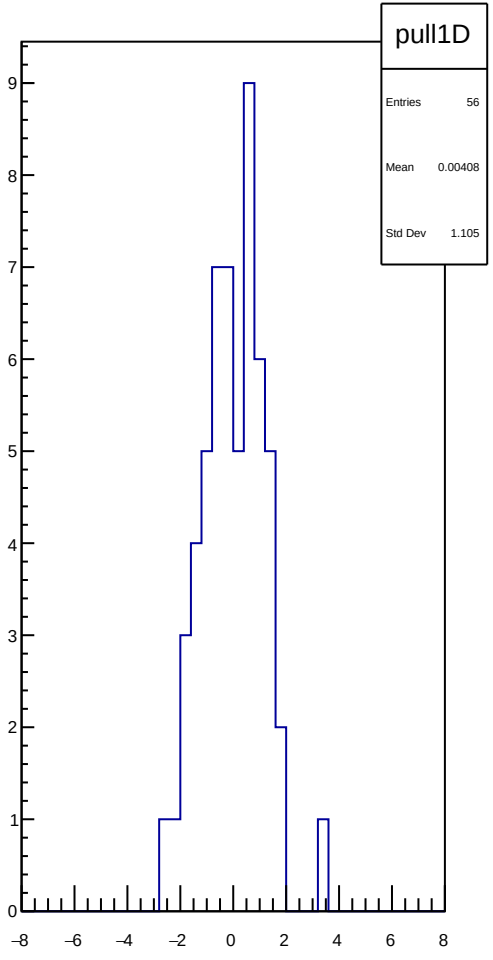

reg_asym_atl2_rms vs run
χ² / ndf 1528 / 55
p0 315.2 ± 0.3028
370
360
350
340
330
320
310
300

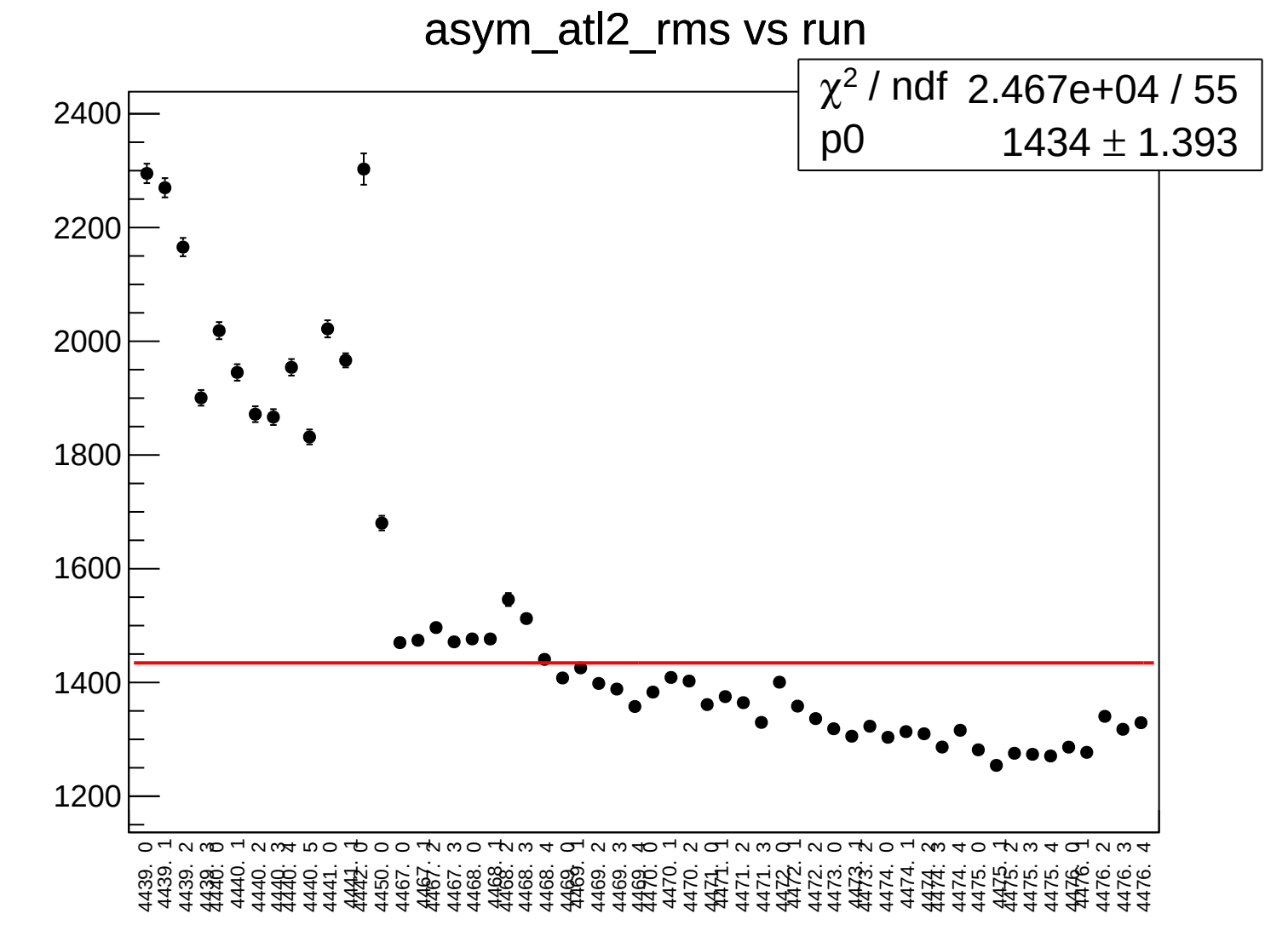

asym_atl2_correction_mean vs run
χ² / ndf 65.99 / 55
p0 731.6 ± 1920
pull
Entries 56
Mean 72.98
Std Dev 69.65

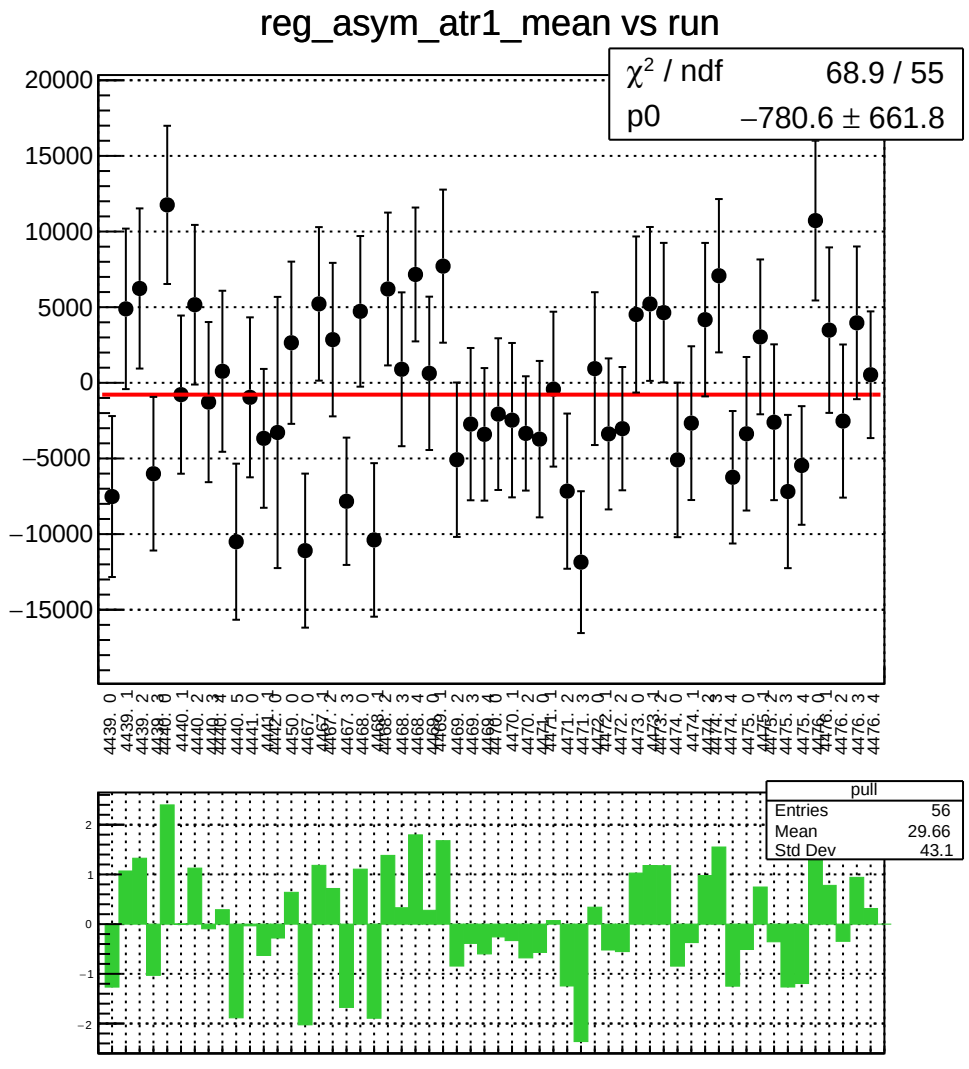

pull1D
Entries 56
Mean 0.003721
Std Dev 1.086

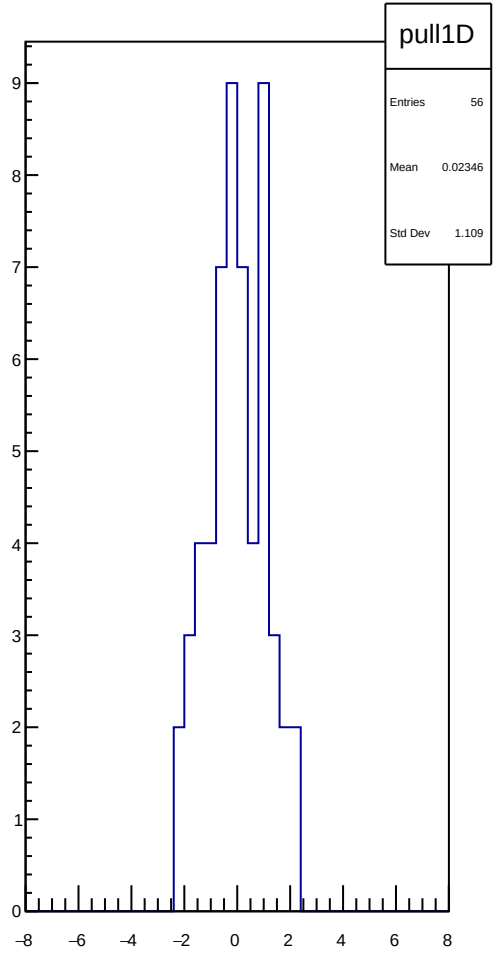

asym_atl2_correction_rms vs run
χ² / ndf 2.63e+04 / 55
p0 1397 ± 1.358
2400
2200
2000
1800
1600
1400
1200

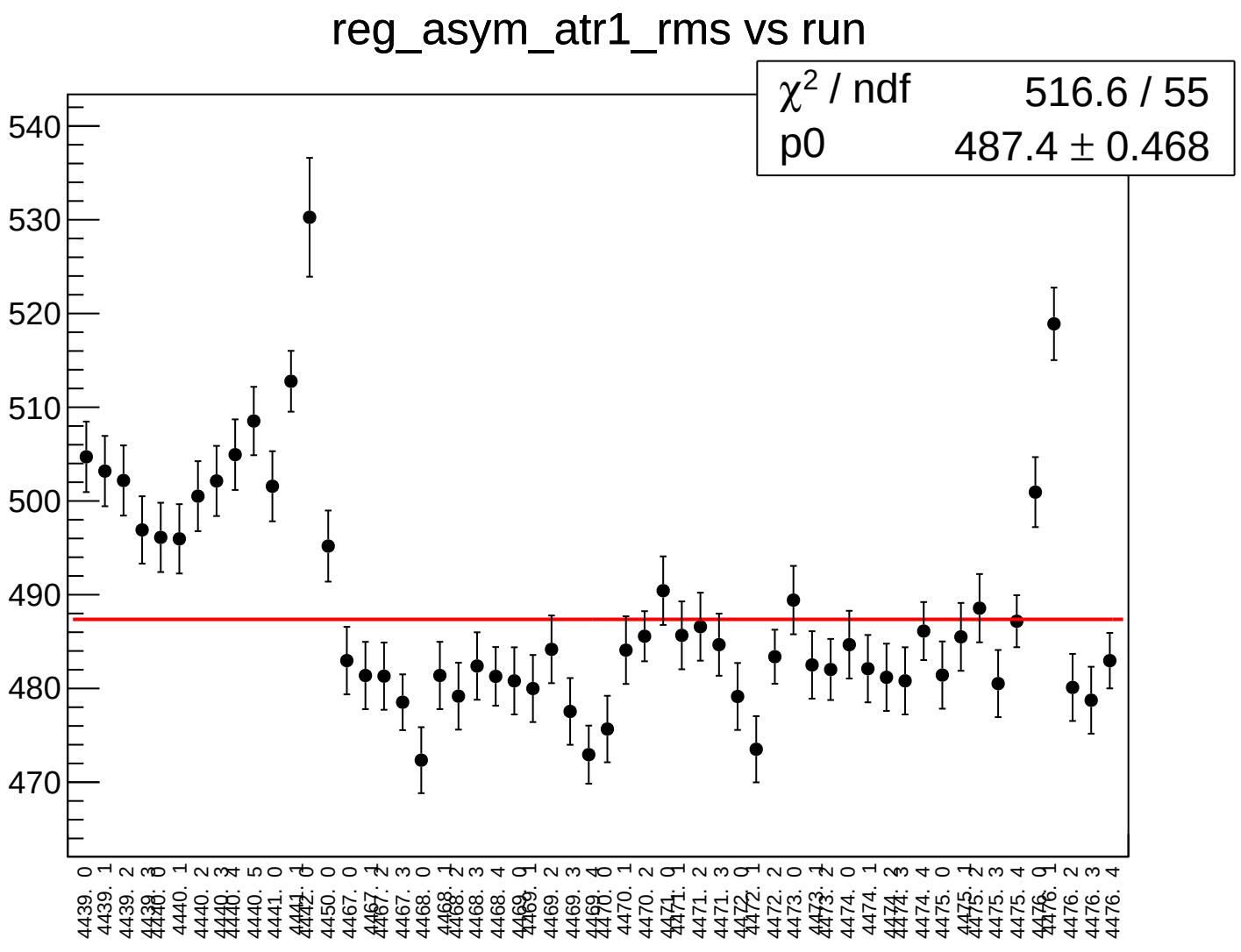

asym_atl2_mean vs run
×10^3
χ² / ndf 68.42 / 55
p0 −1960 ± 1970
pull
Entries 56
Mean −123.7
Std Dev 140.1

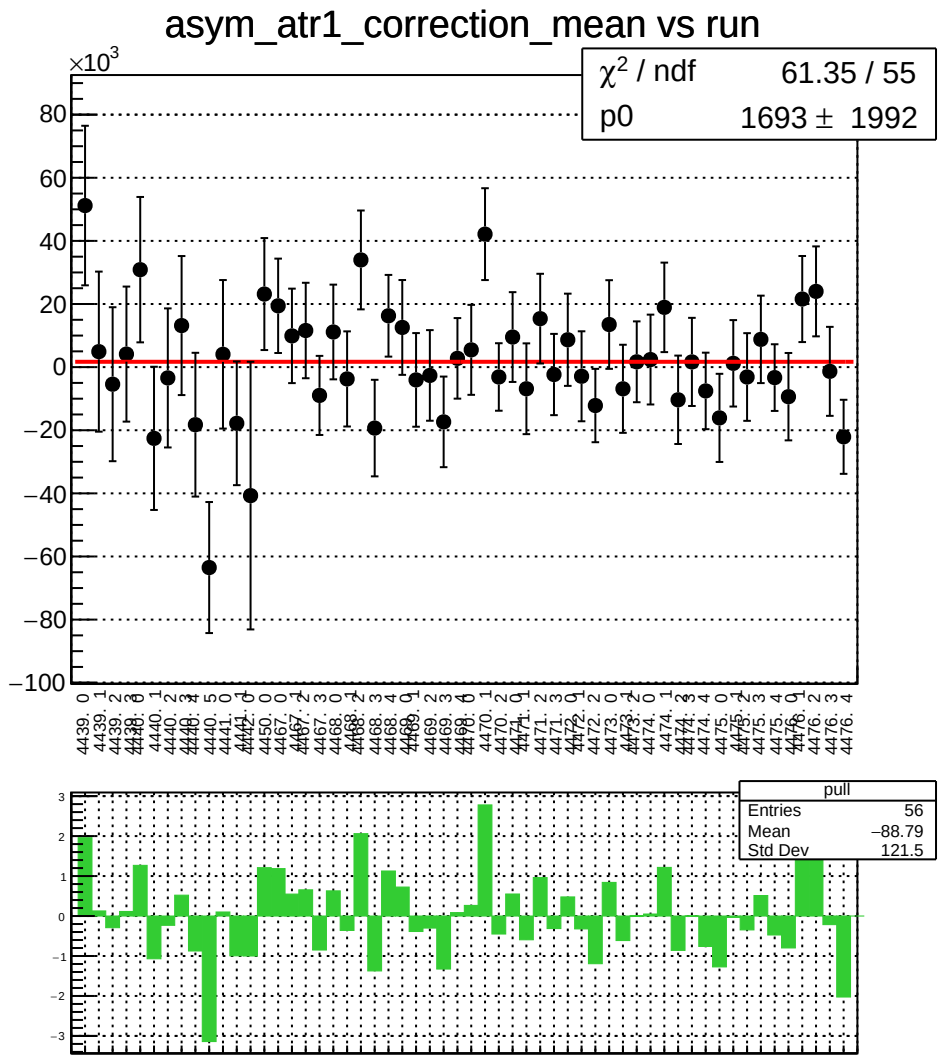

pull1D
Entries 56
Mean 0.00408
Std Dev 1.105

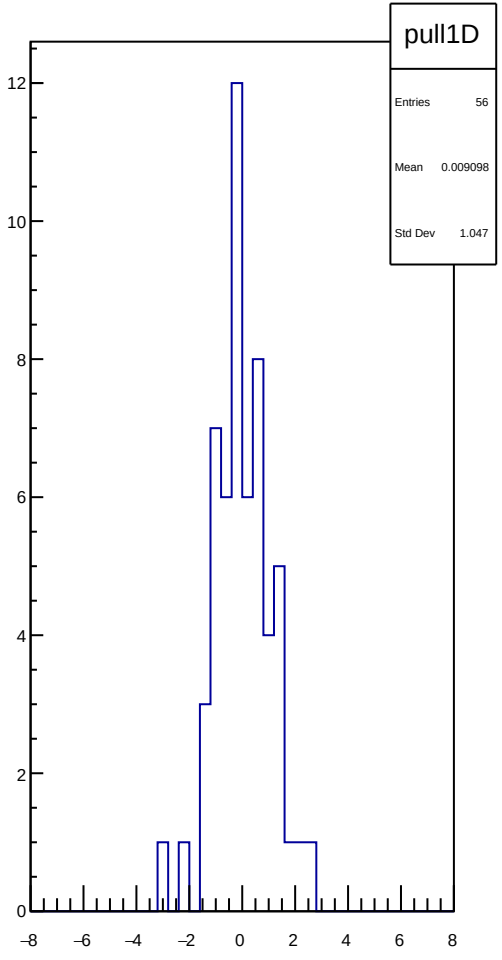

asym_atl2_rms vs run
χ² / ndf 2.467e+04 / 55
p0 1434 ± 1.393
2400
2200
2000
1800
1600
1400
1200

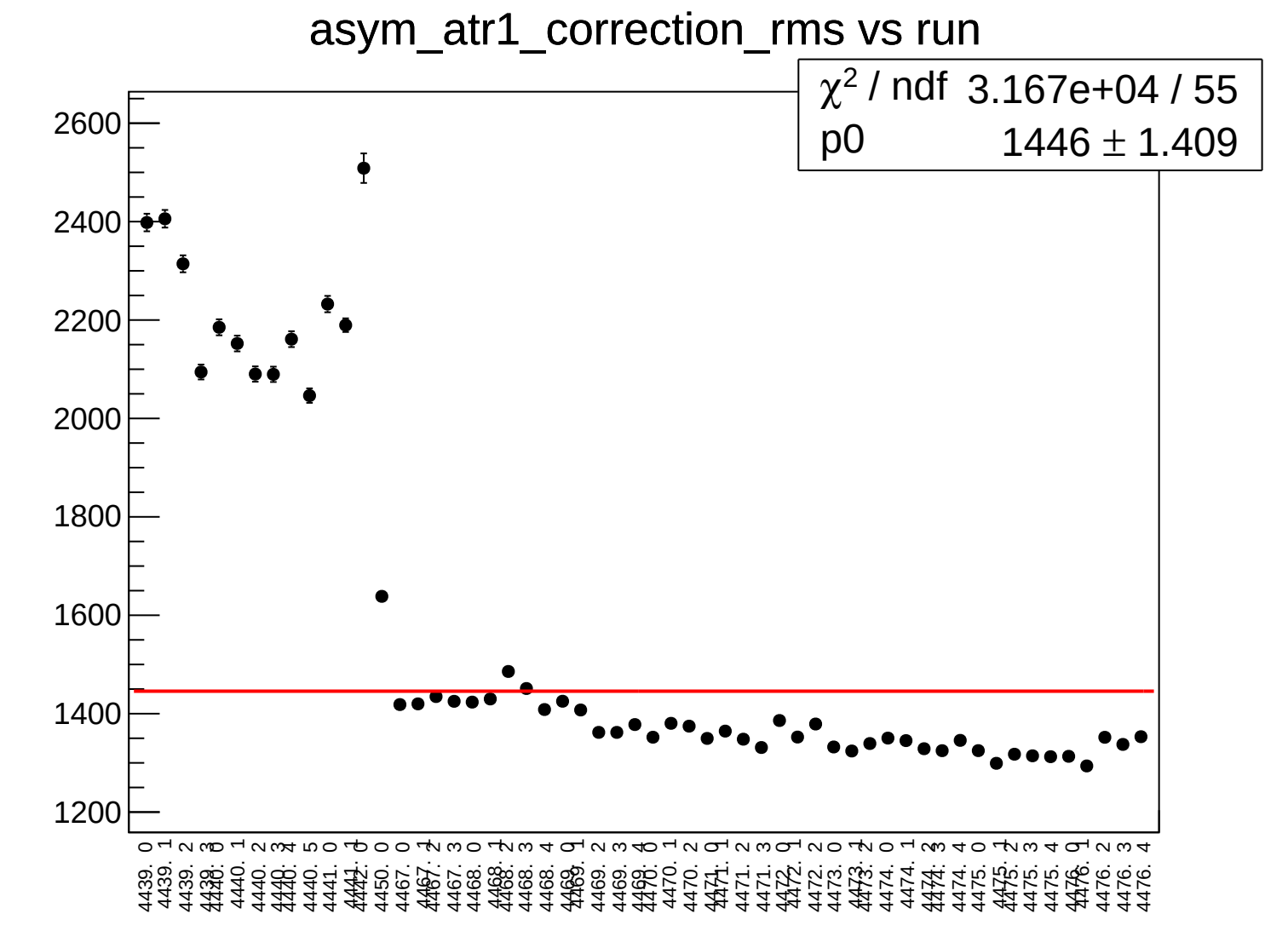

reg_asym_atr1_mean vs run
χ² / ndf 68.9 / 55
p0 −780.6 ± 661.8
pull
Entries 56
Mean 29.66
Std Dev 43.1

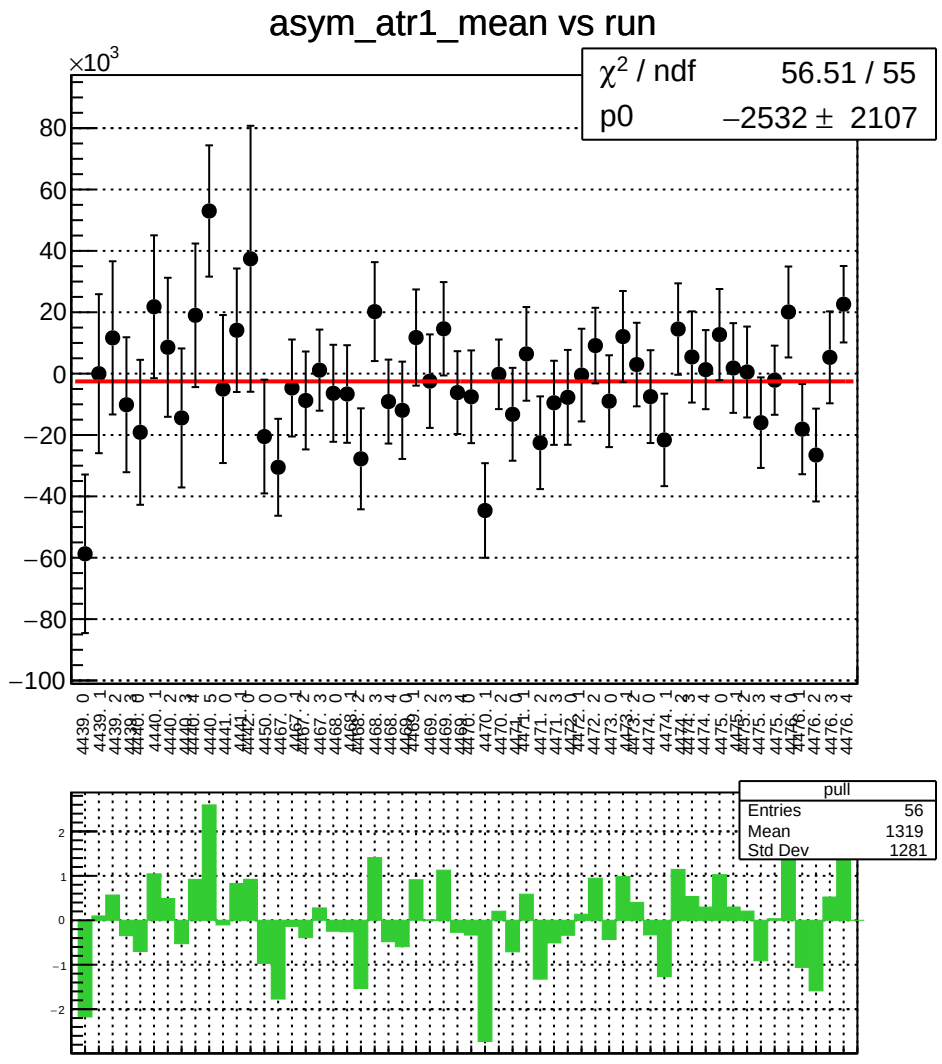

pull1D
Entries 56
Mean 0.02346
Std Dev 1.109

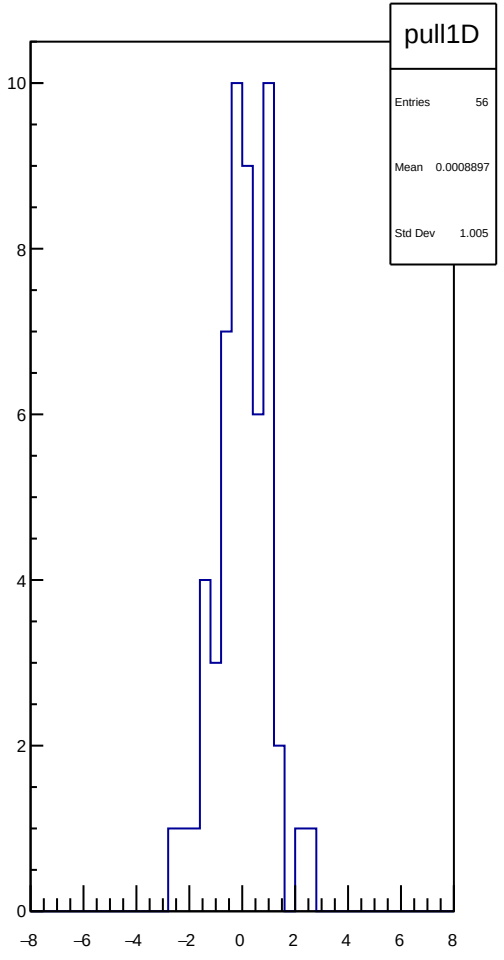

reg_asym_atr1_rms vs run
χ² / ndf 516.6 / 55
p0 487.4 ± 0.468
540
530
520
510
500
490
480
470

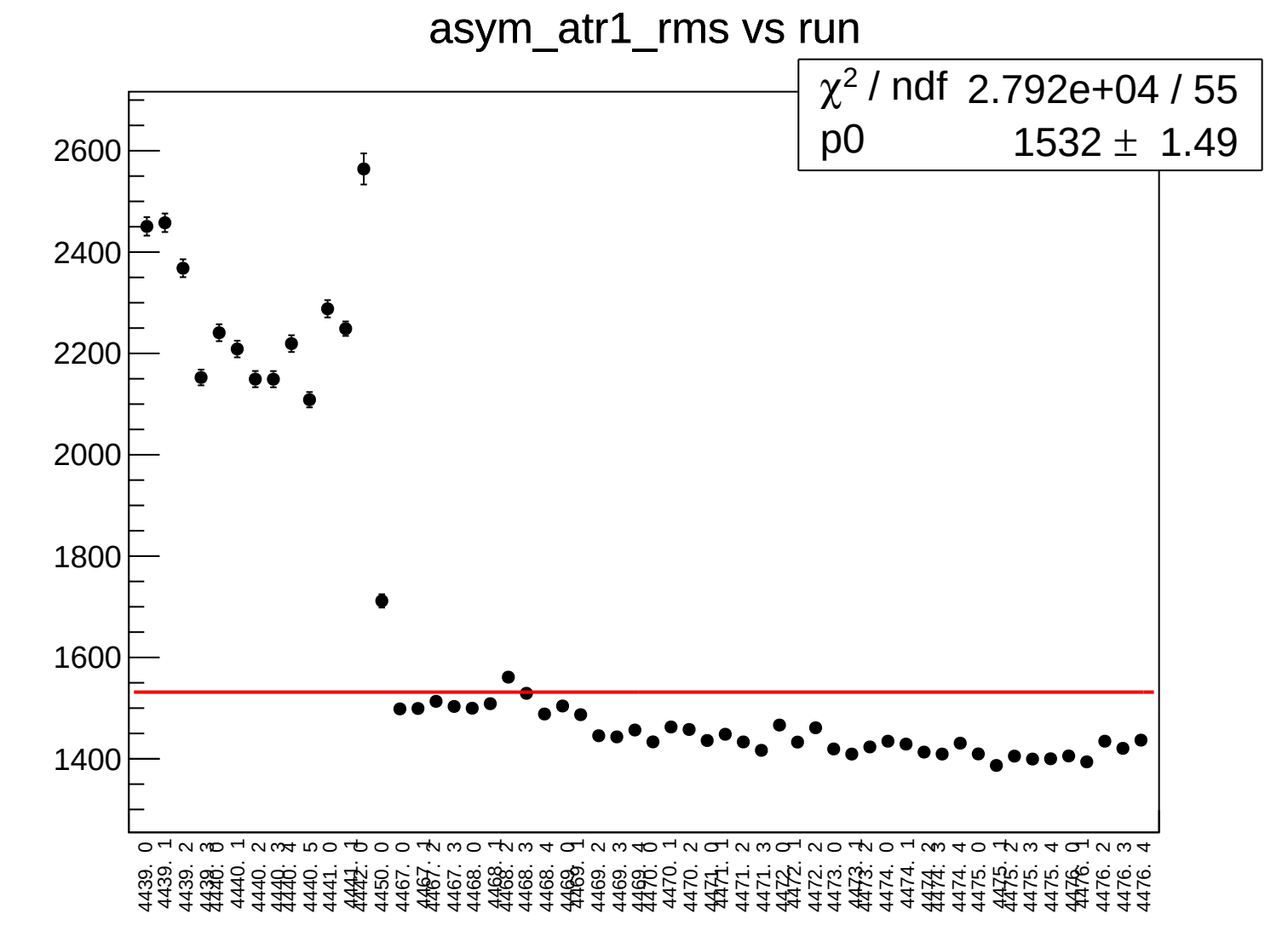

asym_atr1_correction_mean vs run
×10^3
χ^2 / ndf 61.35 / 55
p0 1693 ± 1992
pull
Entries 56
Mean −88.79
Std Dev 121.5

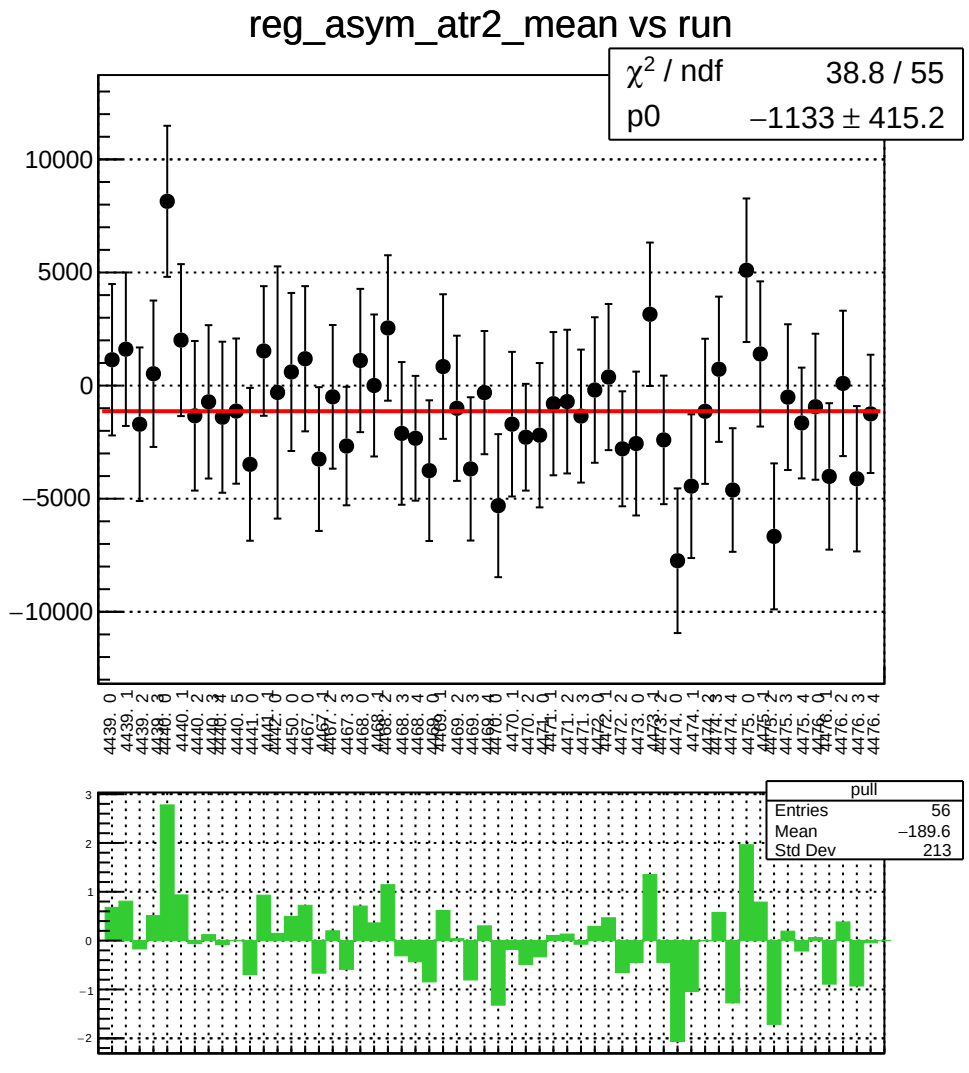

pull1D
Entries 56
Mean 0.009098
Std Dev 1.047

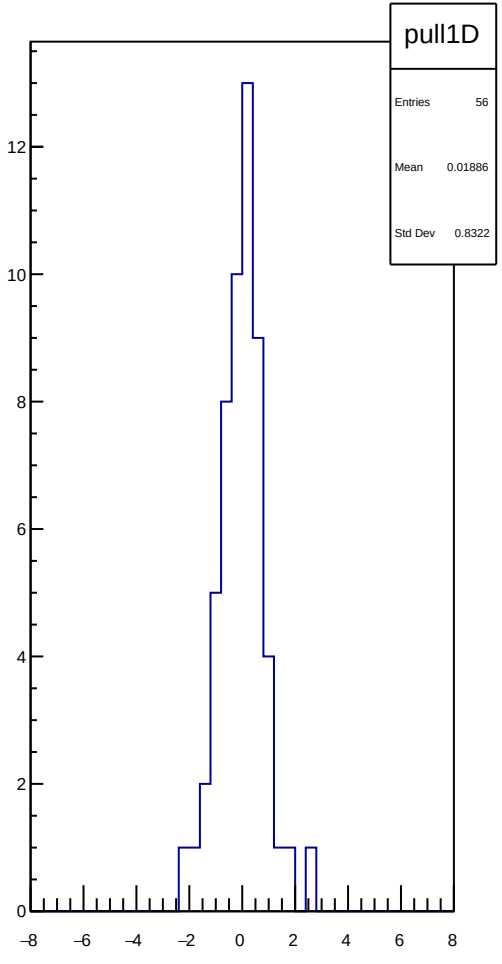

asym_atr1_correction_rms vs run
χ² / ndf 3.167e+04 / 55
p0 1446 ± 1.409
2600
2400
2200
2000
1800
1600
1400
1200

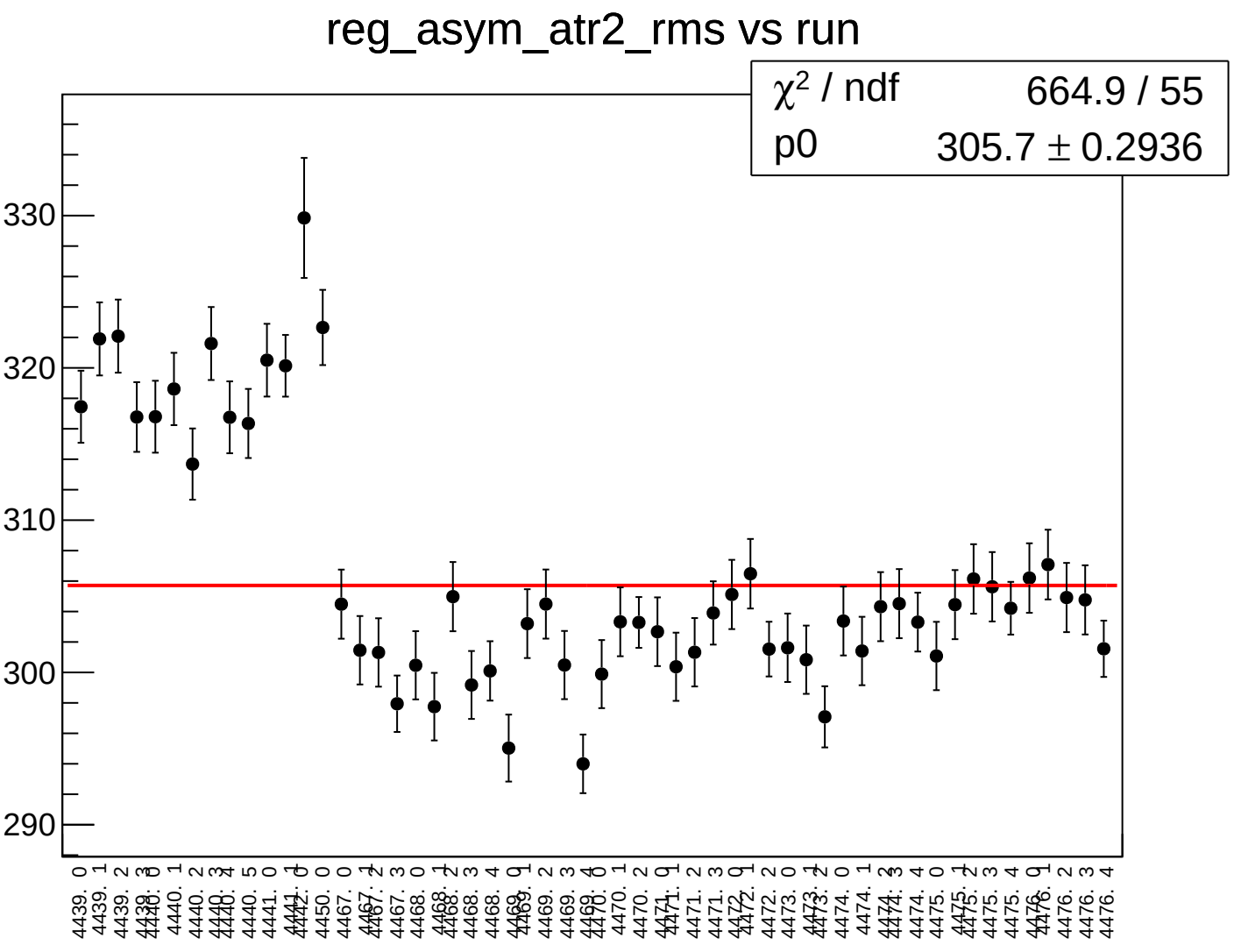

asym_atr1_mean vs run
×10^3
χ^2 / ndf 56.51 / 55
p0 −2532 ± 2107
pull
Entries 56
Mean 1319
Std Dev 1281

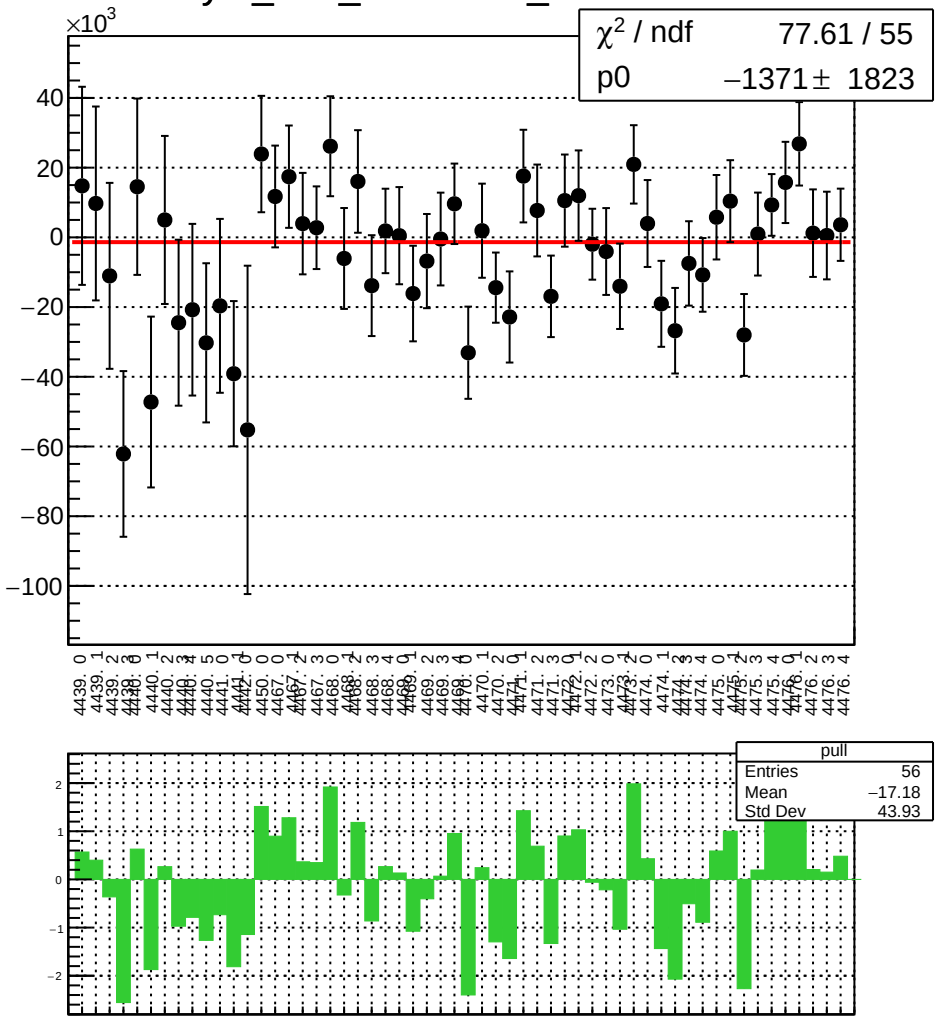

pull1D
Entries 56
Mean 0.0008897
Std Dev 1.005

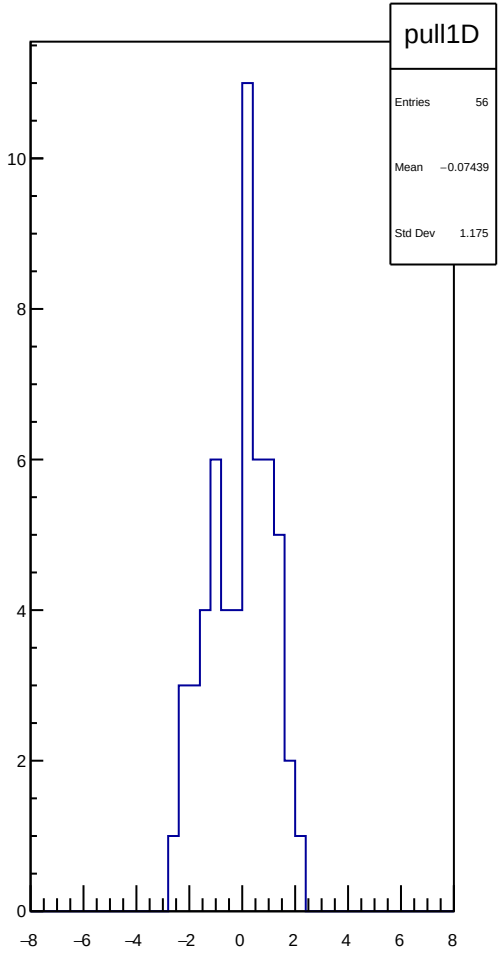

asym_atr1_rms vs run
χ² / ndf 2.792e+04 / 55
p0 1532 ± 1.49
2600
2400
2200
2000
1800
1600
1400

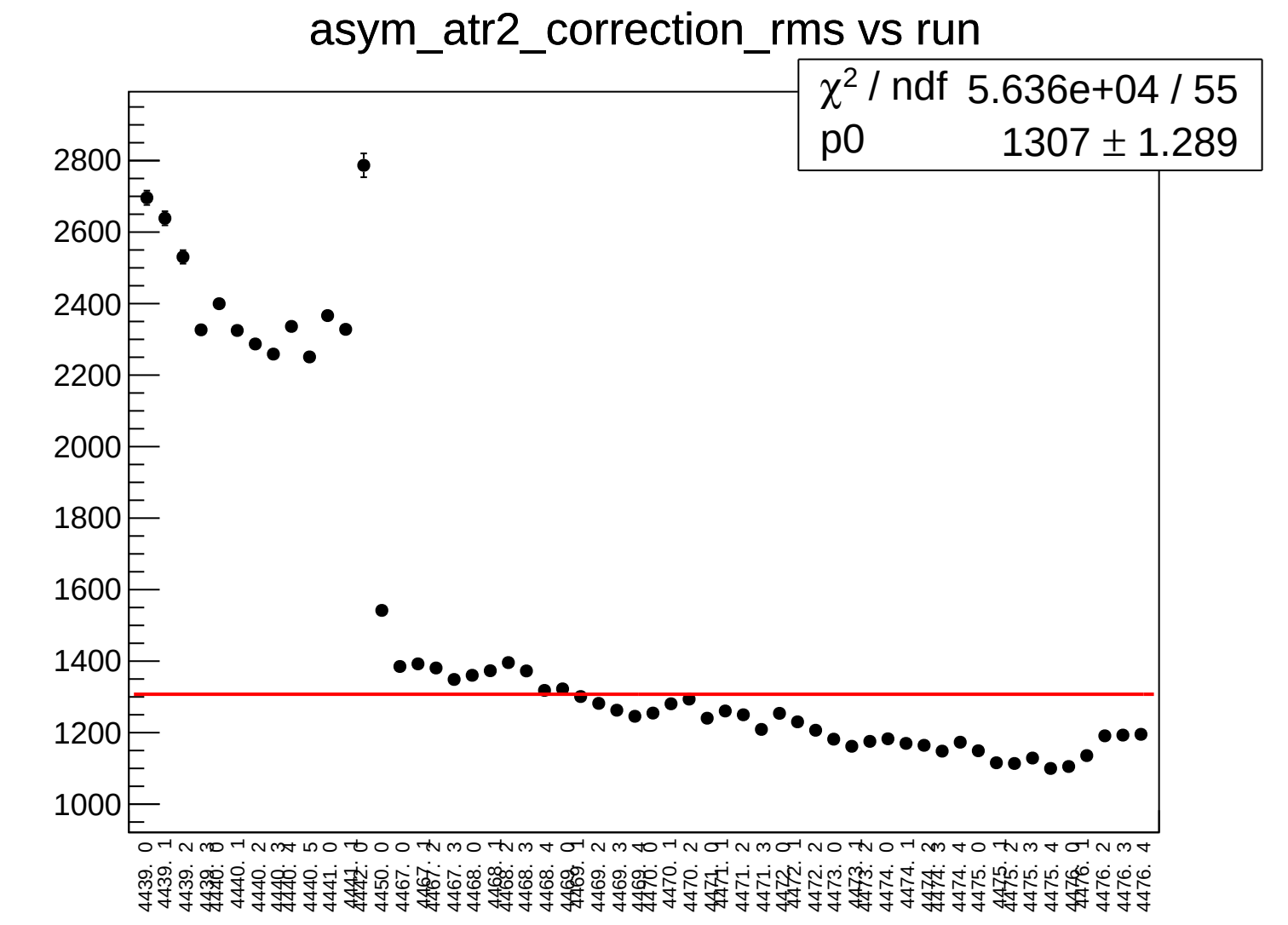

reg_asym_atr2_mean vs run
χ² / ndf 38.8 / 55
p0 −1133 ± 415.2
10000
5000
0
−5000
−10000
pull
Entries 56
Mean −189.6
Std Dev 213
3
2
1
0
−1
−2

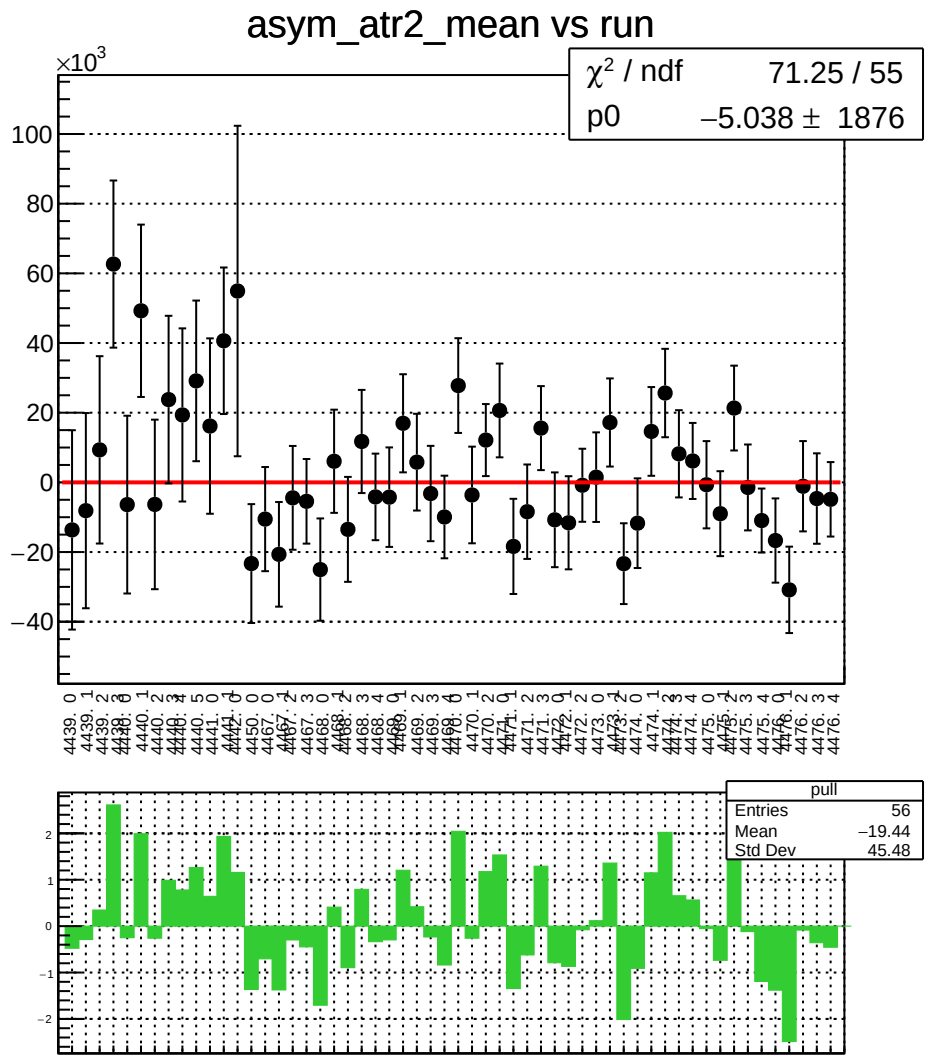

pull1D
Entries 56
Mean 0.01886
Std Dev 0.8322
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

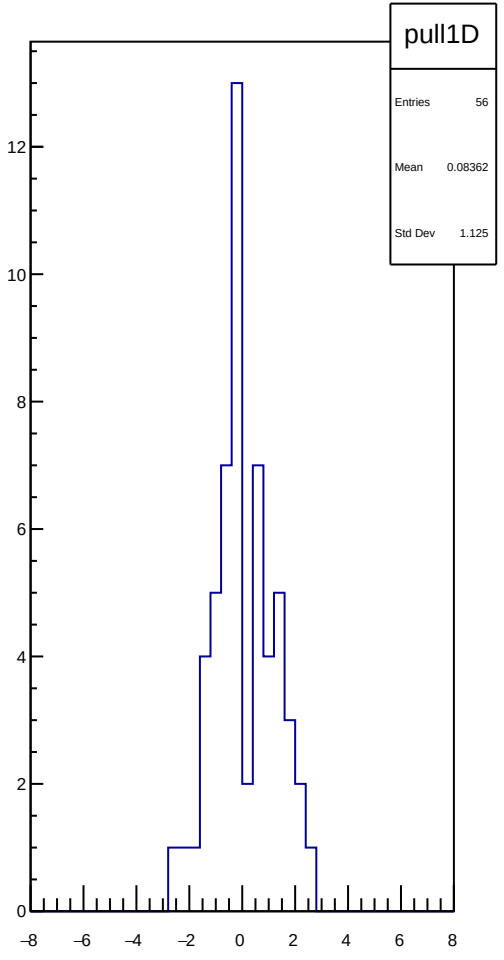

reg_asym_atr2_rms vs run
χ² / ndf 664.9 / 55
p0 305.7 ± 0.2936
330
320
310
300
290

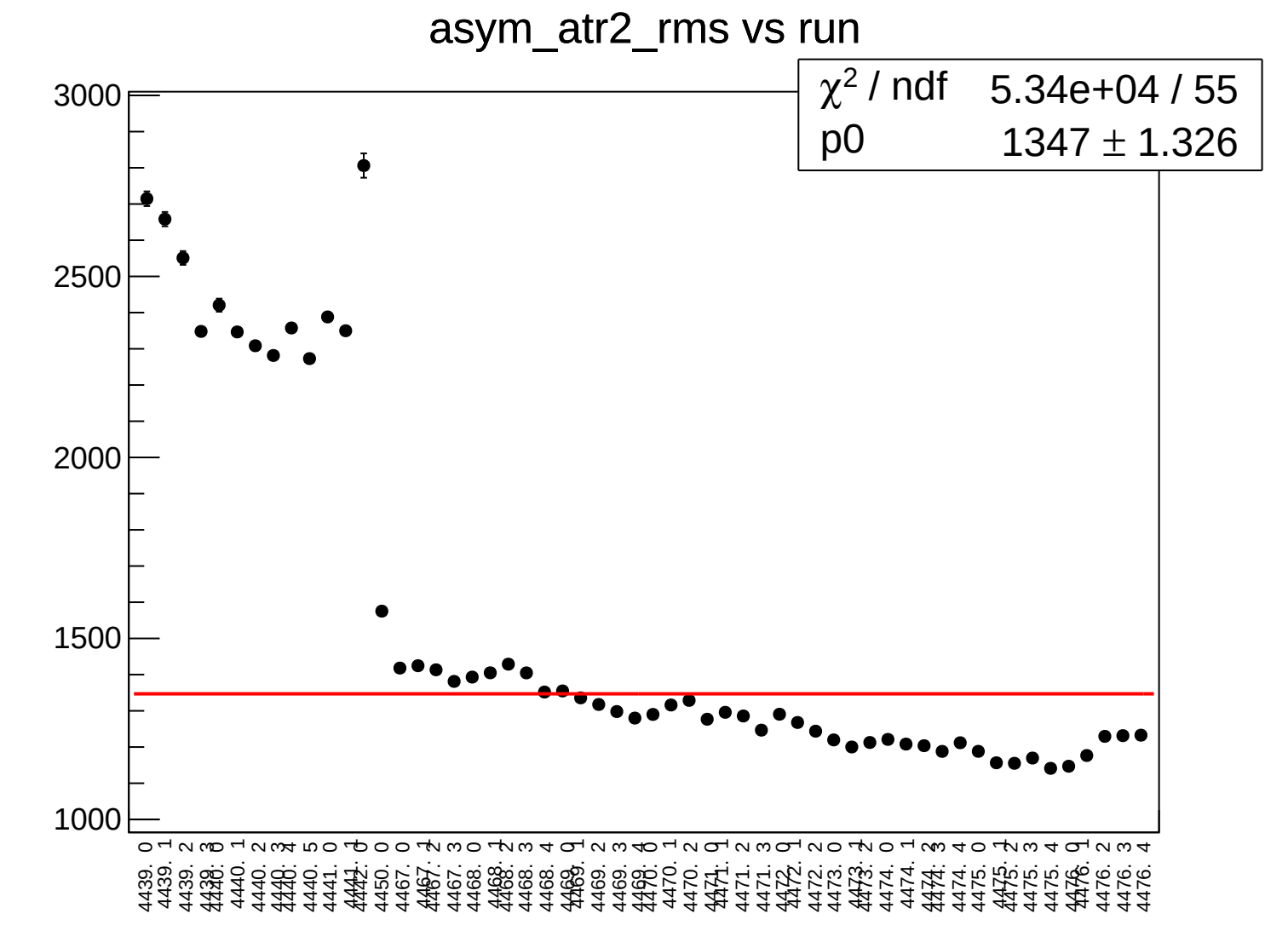

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 77.61 / 55
p0 −1371 ± 1823
pull
Entries 56
Mean −17.18
Std Dev 43.93

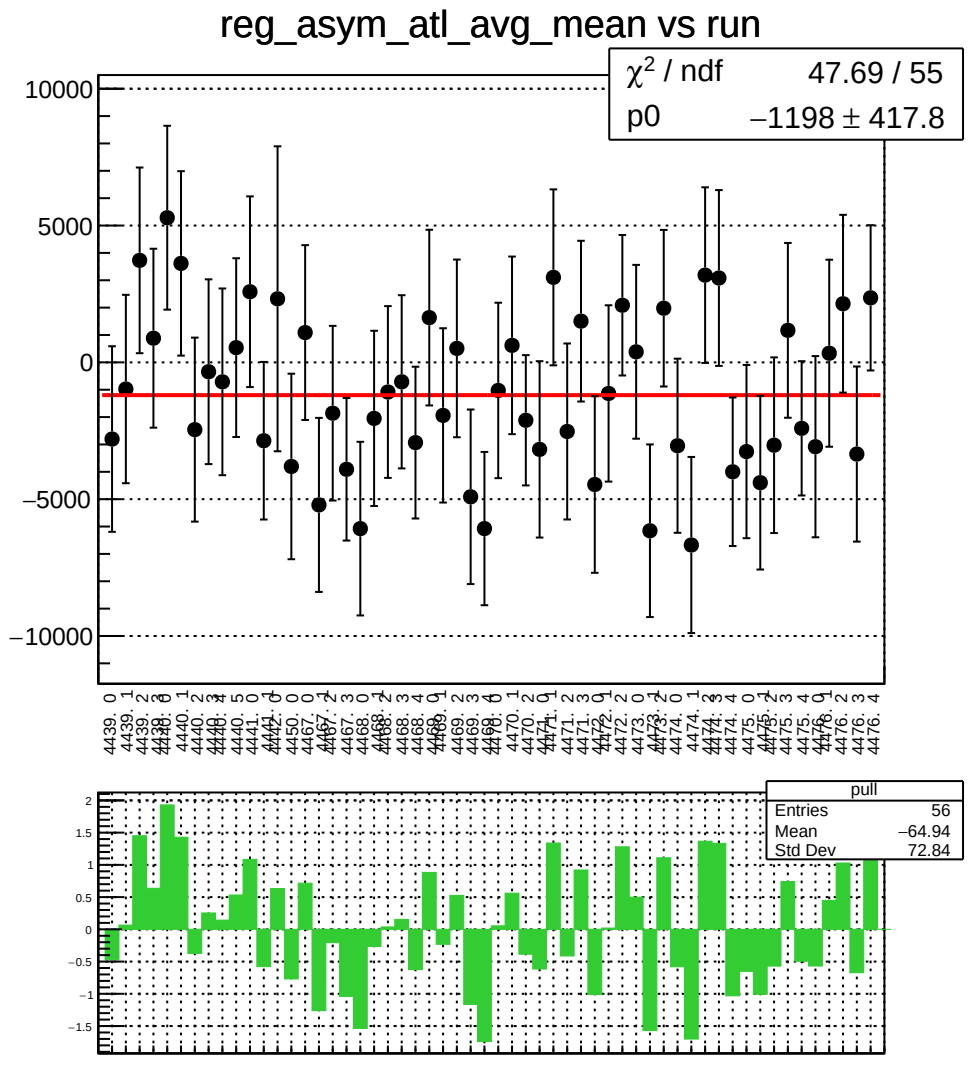

pull1D
Entries 56
Mean −0.07439
Std Dev 1.175

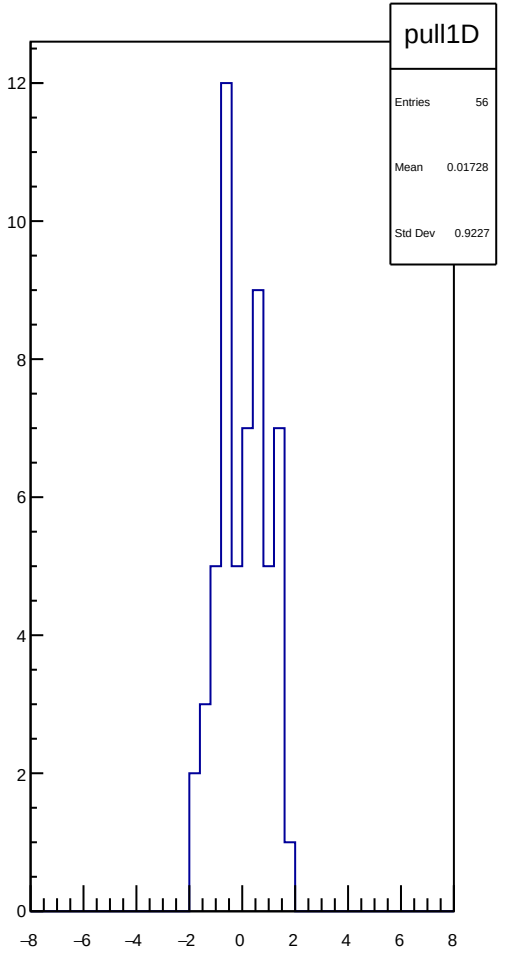

asym_atr2_correction_rms vs run
χ² / ndf 5.636e+04 / 55
p0 1307 ± 1.289
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
4439. 0
4439. 1
4439. 2
4440. 1
4440. 2
4440. 5
4441. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 3
4468. 4
4469. 2
4469. 3
4470. 1
4470. 2
4471. 2
4471. 3
4472. 2
4473. 0
4474. 0
4474. 1
4474. 4
4475. 0
4475. 2
4475. 3
4475. 4
4476. 2
4476. 3
4476. 4

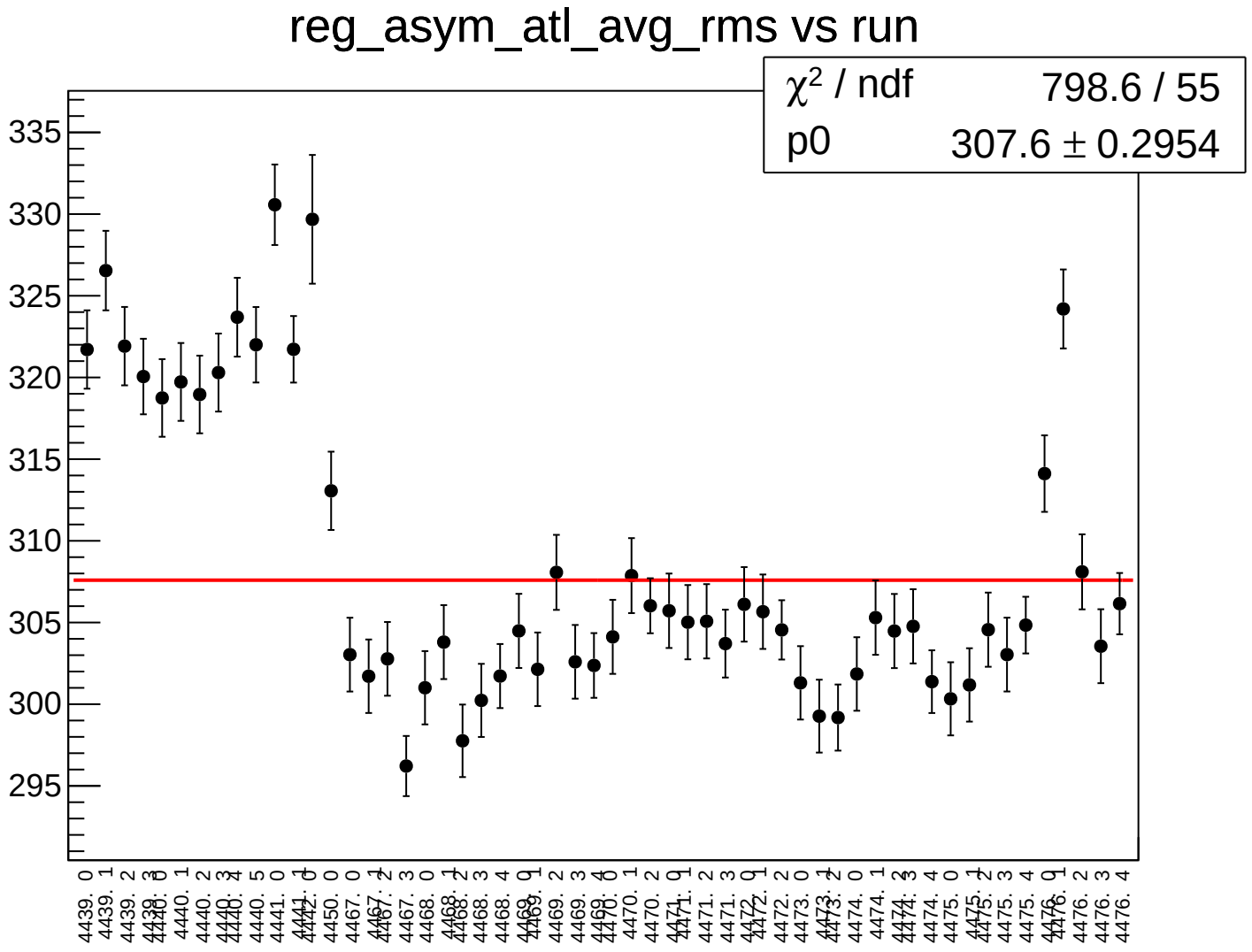

asym_atr2_mean vs run
×10^3
χ² / ndf 71.25 / 55
p0 −5.038 ± 1876
pull
Entries 56
Mean −19.44
Std Dev 45.48

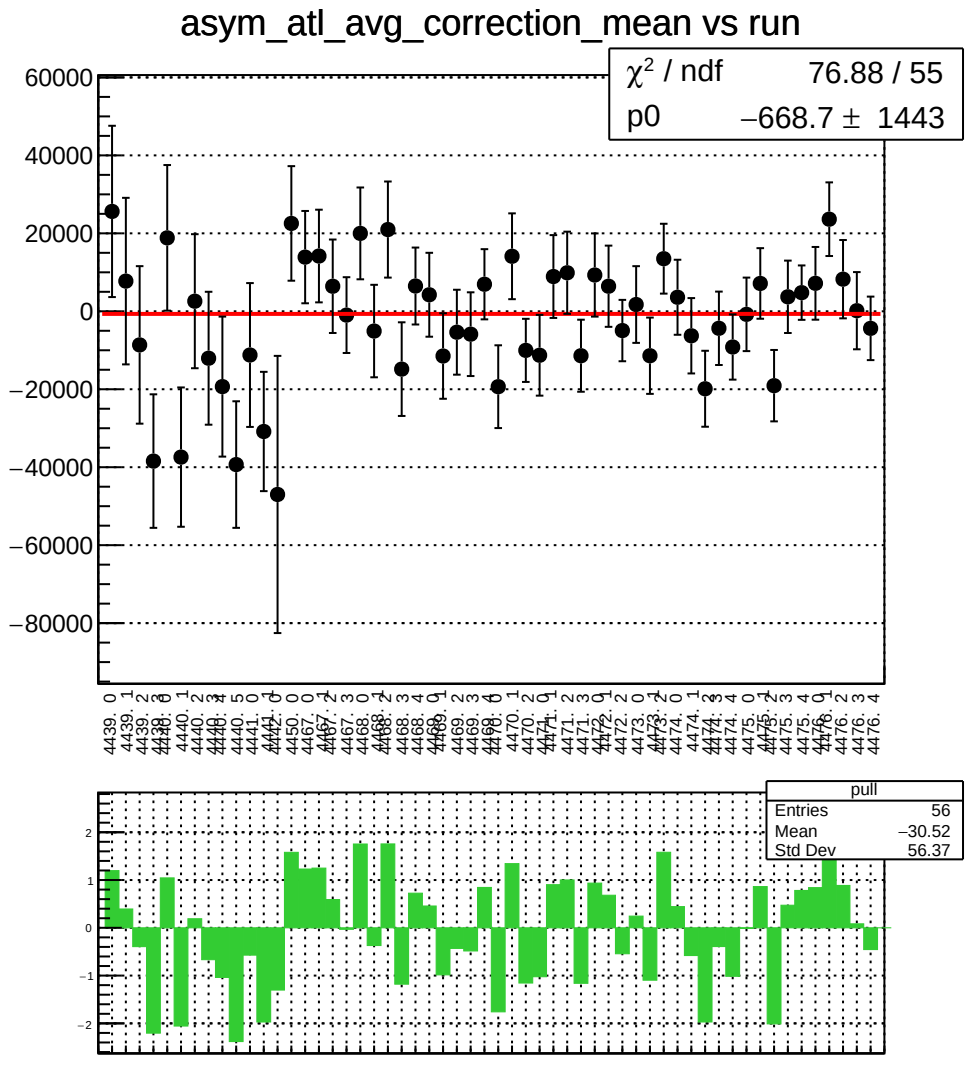

pull1D
Entries 56
Mean 0.08362
Std Dev 1.125

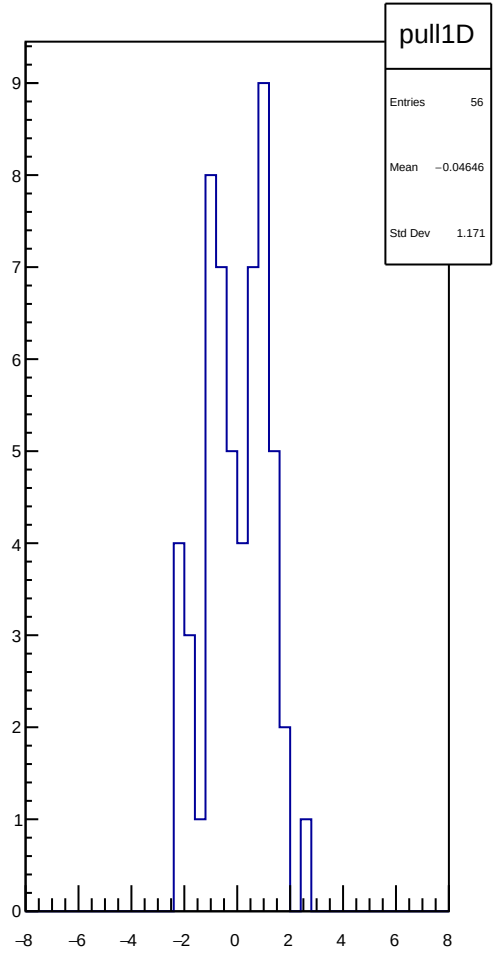

asym_atr2_rms vs run
χ² / ndf 5.34e+04 / 55
p0 1347 ± 1.326
3000
2500
2000
1500
1000

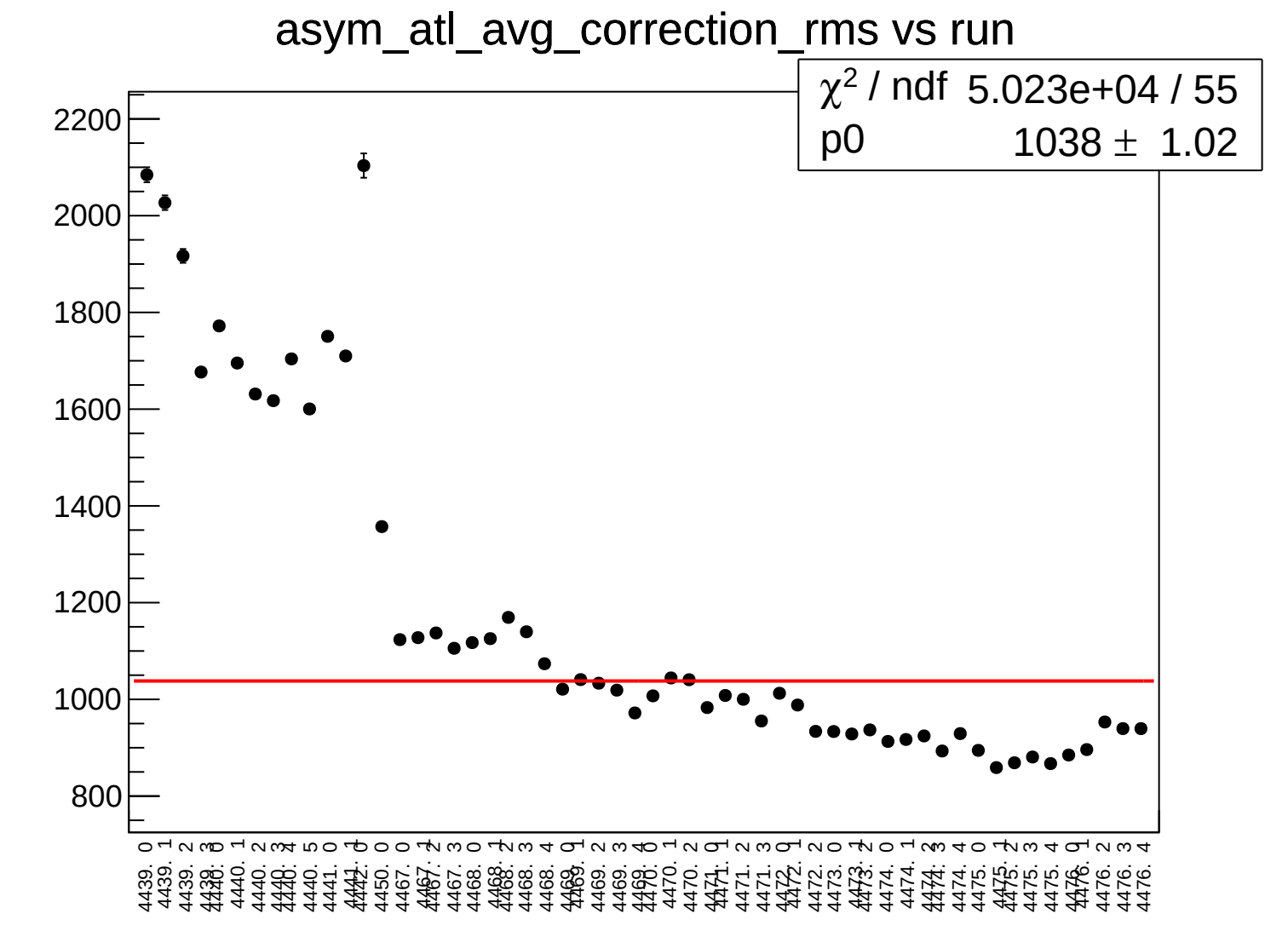

reg_asym_atl_avg_mean vs run
χ² / ndf 47.69 / 55
p0 −1198 ± 417.8
10000
5000
0
−5000
−10000
pull
Entries 56
Mean −64.94
Std Dev 72.84
2
1.5
1
0.5
0
−0.5
−1
−1.5

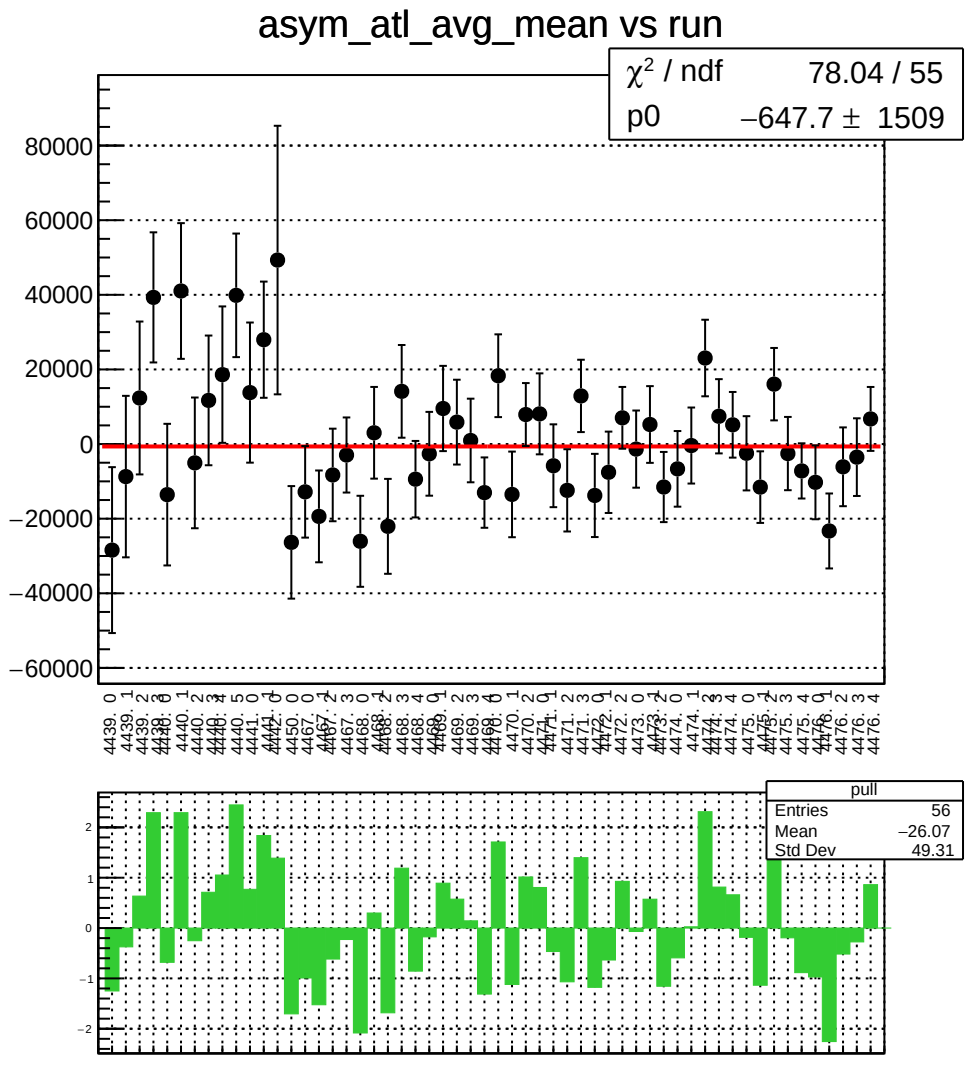

pull1D
Entries 56
Mean 0.01728
Std Dev 0.9227
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

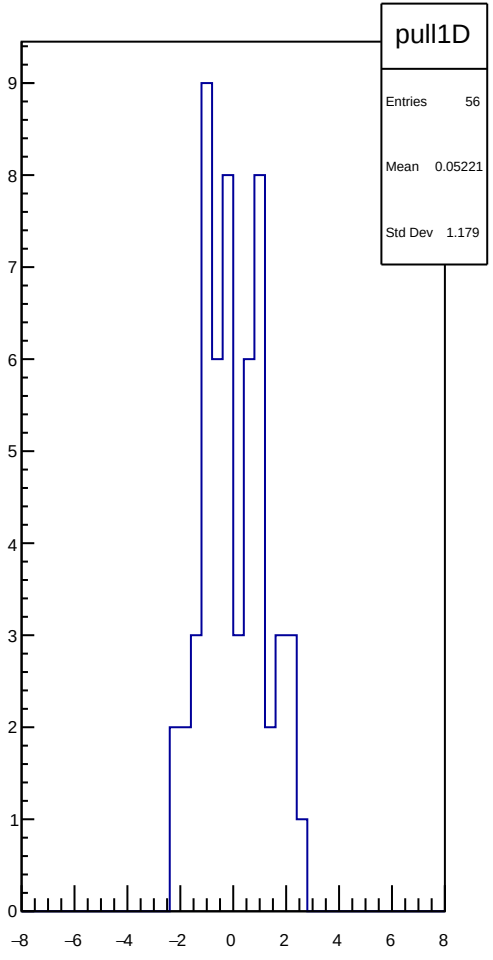

reg_asym_atl_avg_rms vs run
χ² / ndf 798.6 / 55
p0 307.6 ± 0.2954
335
330
325
320
315
310
305
300
295

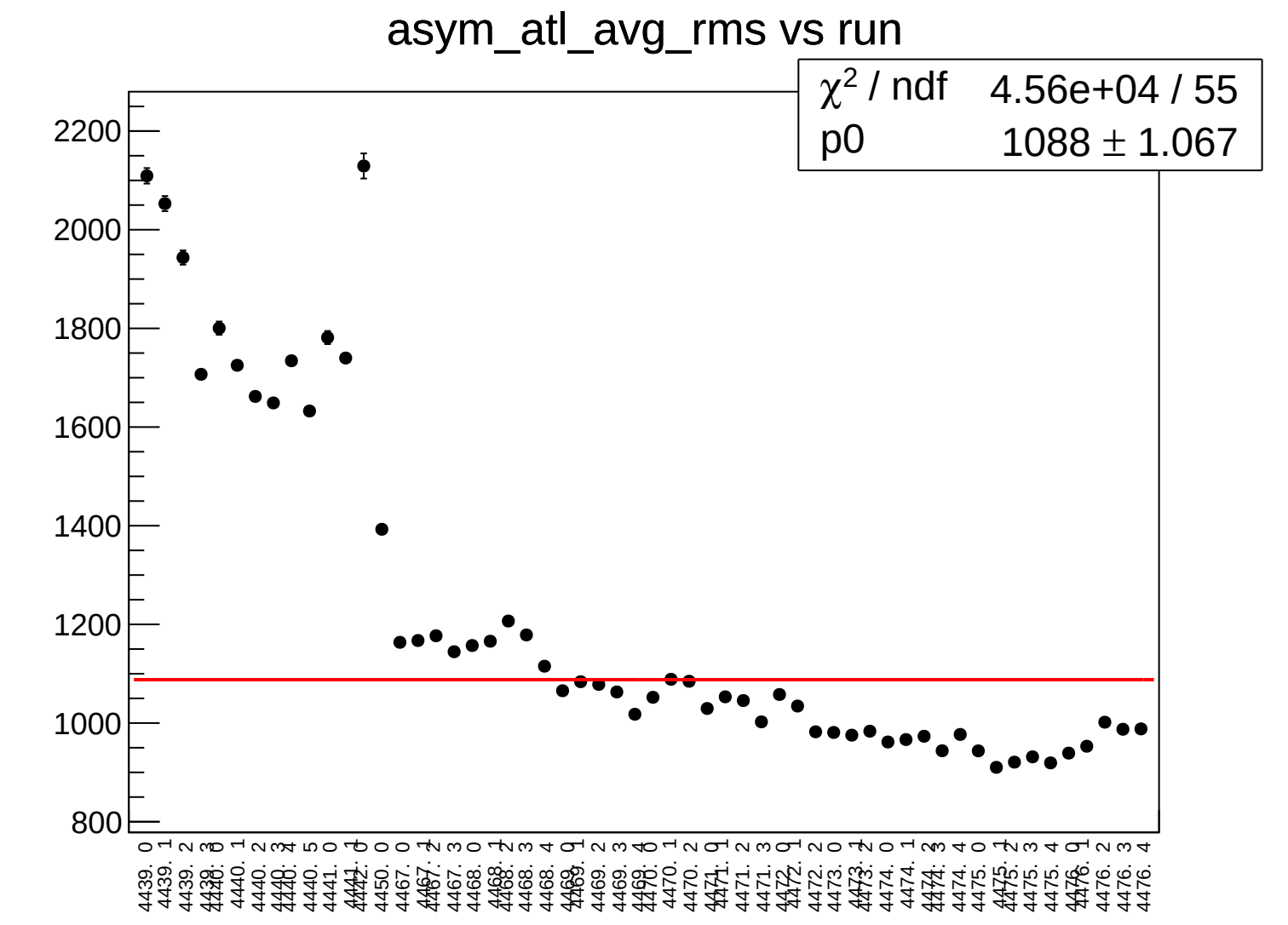

asym_atl_avg_correction_mean vs run
χ² / ndf 76.88 / 55
p0 −668.7 ± 1443
pull
Entries 56
Mean −30.52
Std Dev 56.37

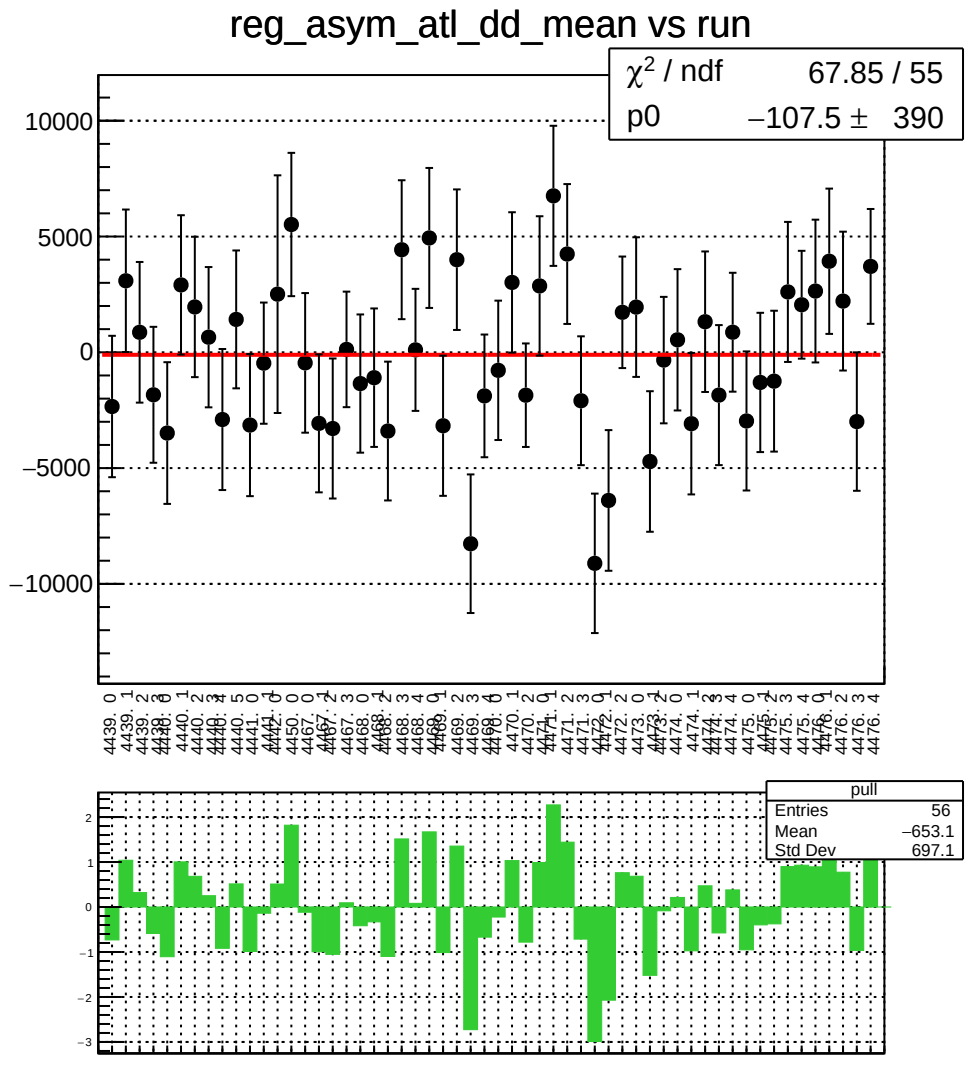

pull1D
Entries 56
Mean −0.04646
Std Dev 1.171

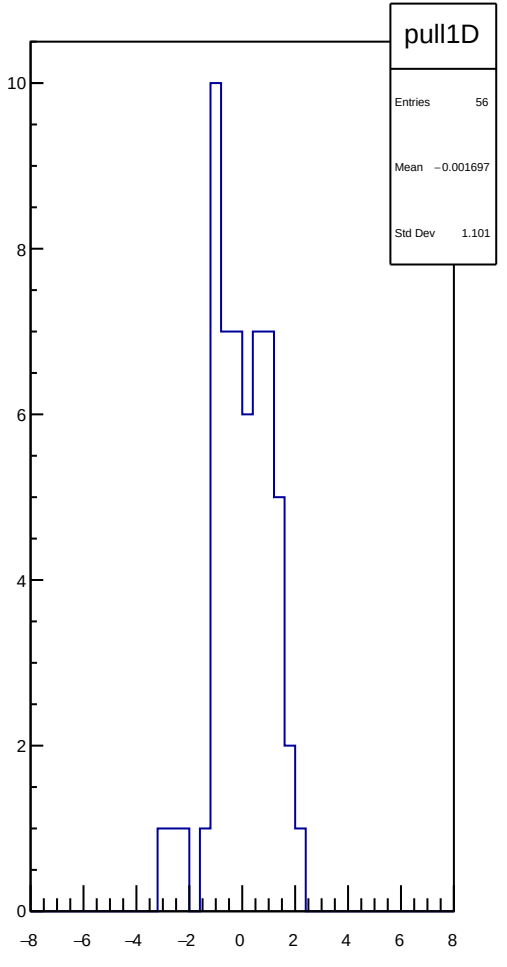

asym_atl_avg_correction_rms vs run
χ² / ndf 5.023e+04 / 55
p0 1038 ± 1.02
2200
2000
1800
1600
1400
1200
1000
800
4439. 0
4439. 1
4439. 2
4439. 3
4439. 4
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4441. 2
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

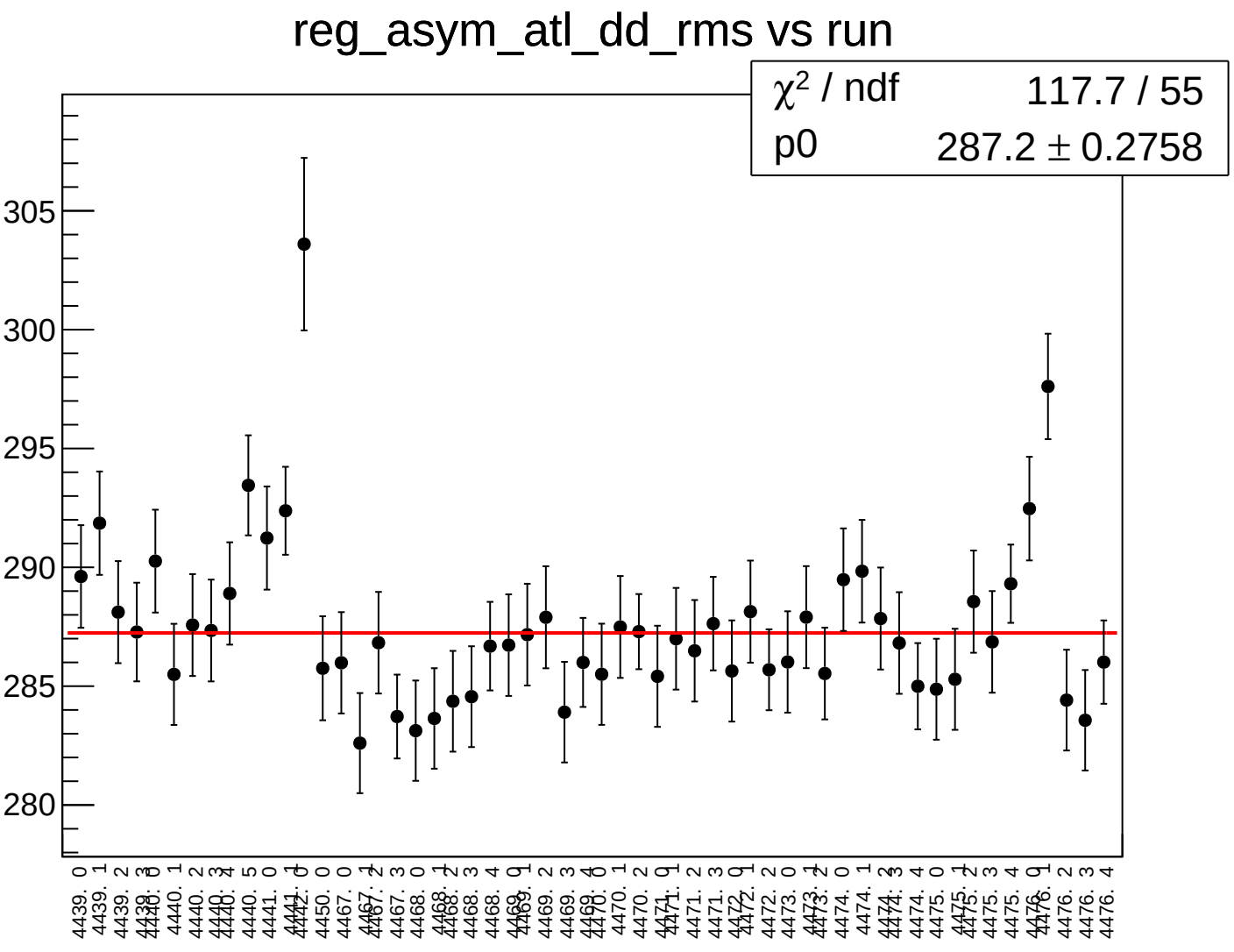

asym_atl_avg_mean vs run
χ² / ndf 78.04 / 55
p0 −647.7 ± 1509
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 56
Mean −26.07
Std Dev 49.31
2
1
0
−1
−2

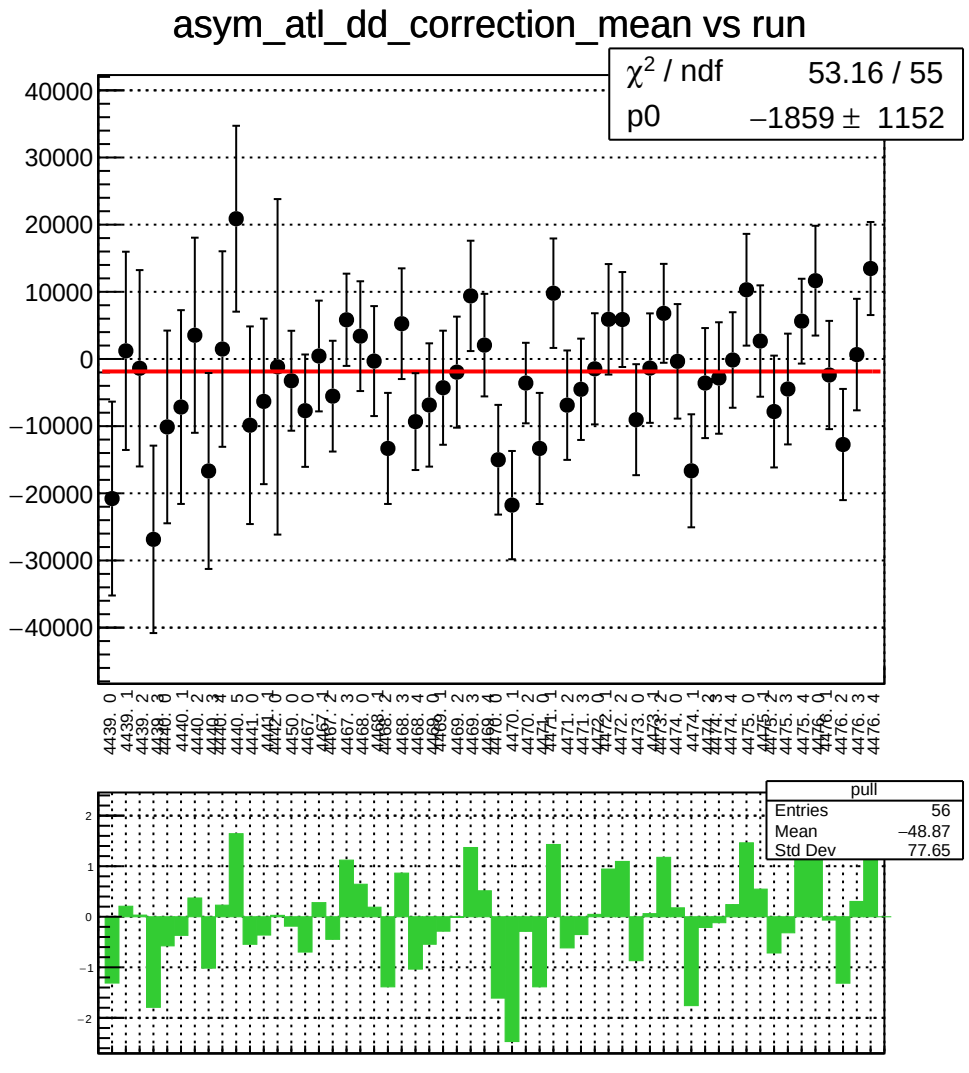

pull1D
Entries 56
Mean 0.05221
Std Dev 1.179
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

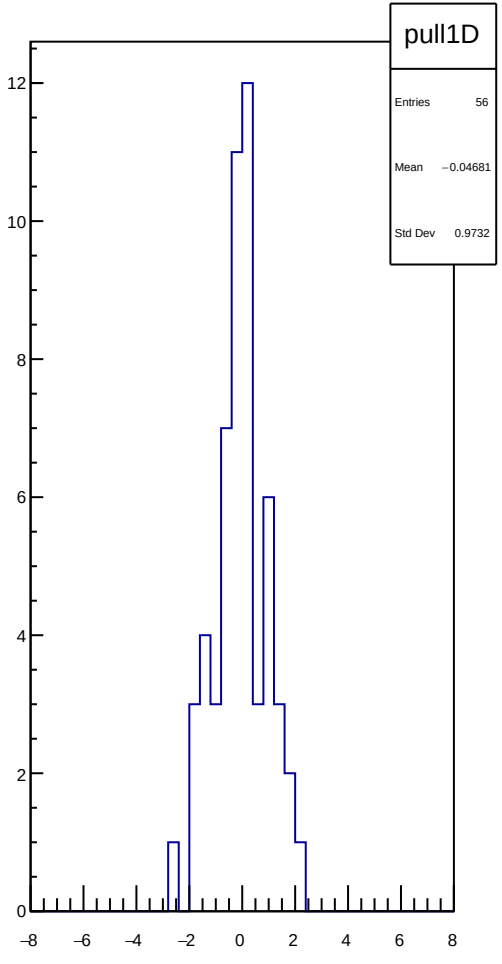

asym_atl_avg_rms vs run
χ² / ndf 4.56e+04 / 55
p0 1088 ± 1.067
2200
2000
1800
1600
1400
1200
1000
800

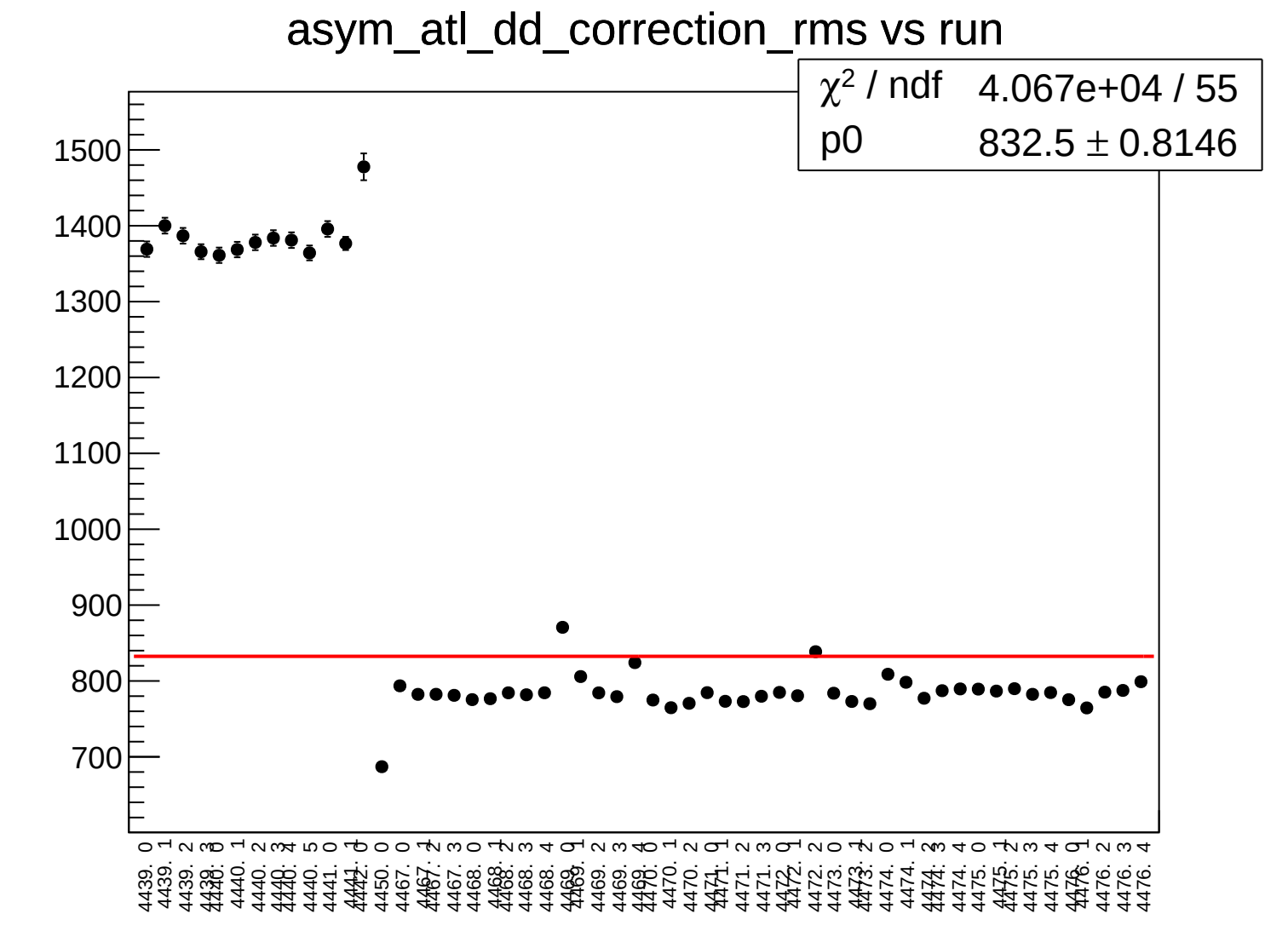

reg_asym_atl_dd_mean vs run
χ² / ndf 67.85 / 55
p0 −107.5 ± 390
10000
5000
0
−5000
−10000
pull
Entries 56
Mean −653.1
Std Dev 697.1
2
1
0
−1
−2
−3

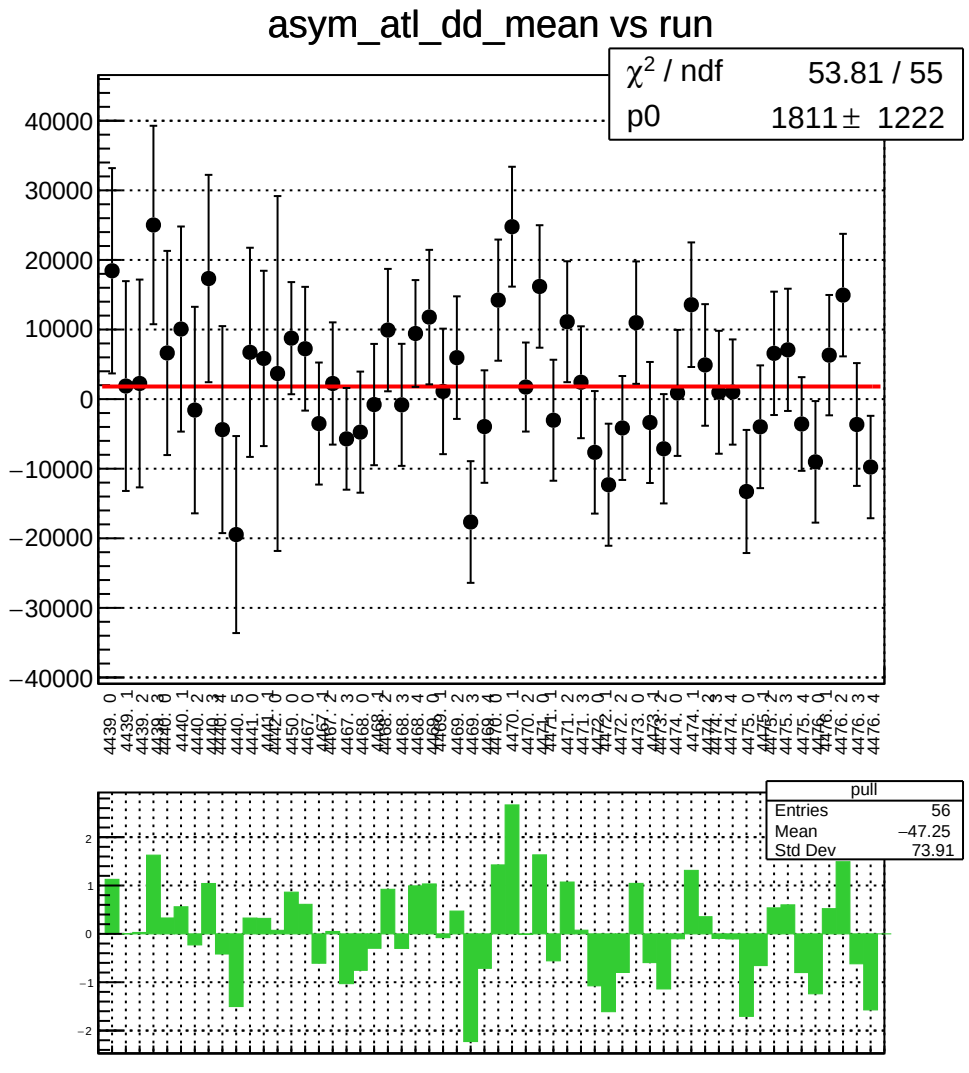

pull1D
Entries 56
Mean −0.001697
Std Dev 1.101
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

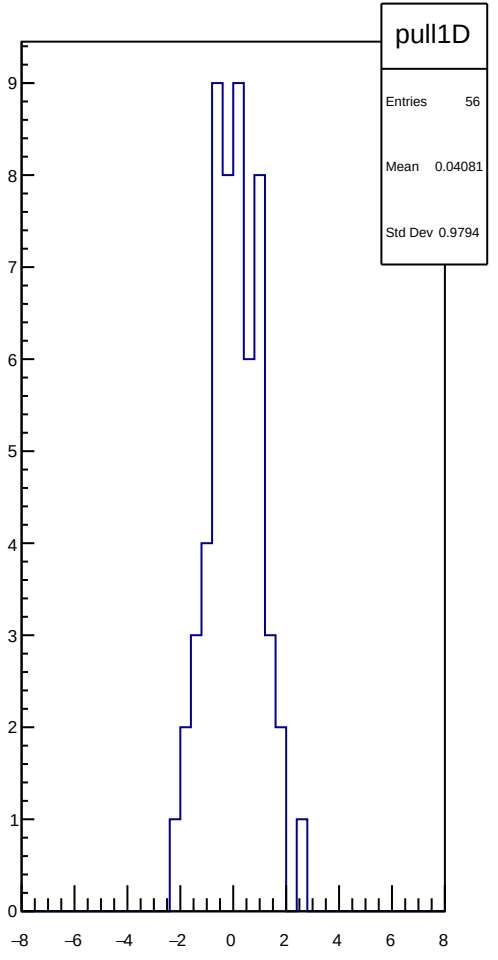

reg_asym_atl_dd_rms vs run
χ² / ndf 117.7 / 55
p0 287.2 ± 0.2758
305
300
295
290
285
280

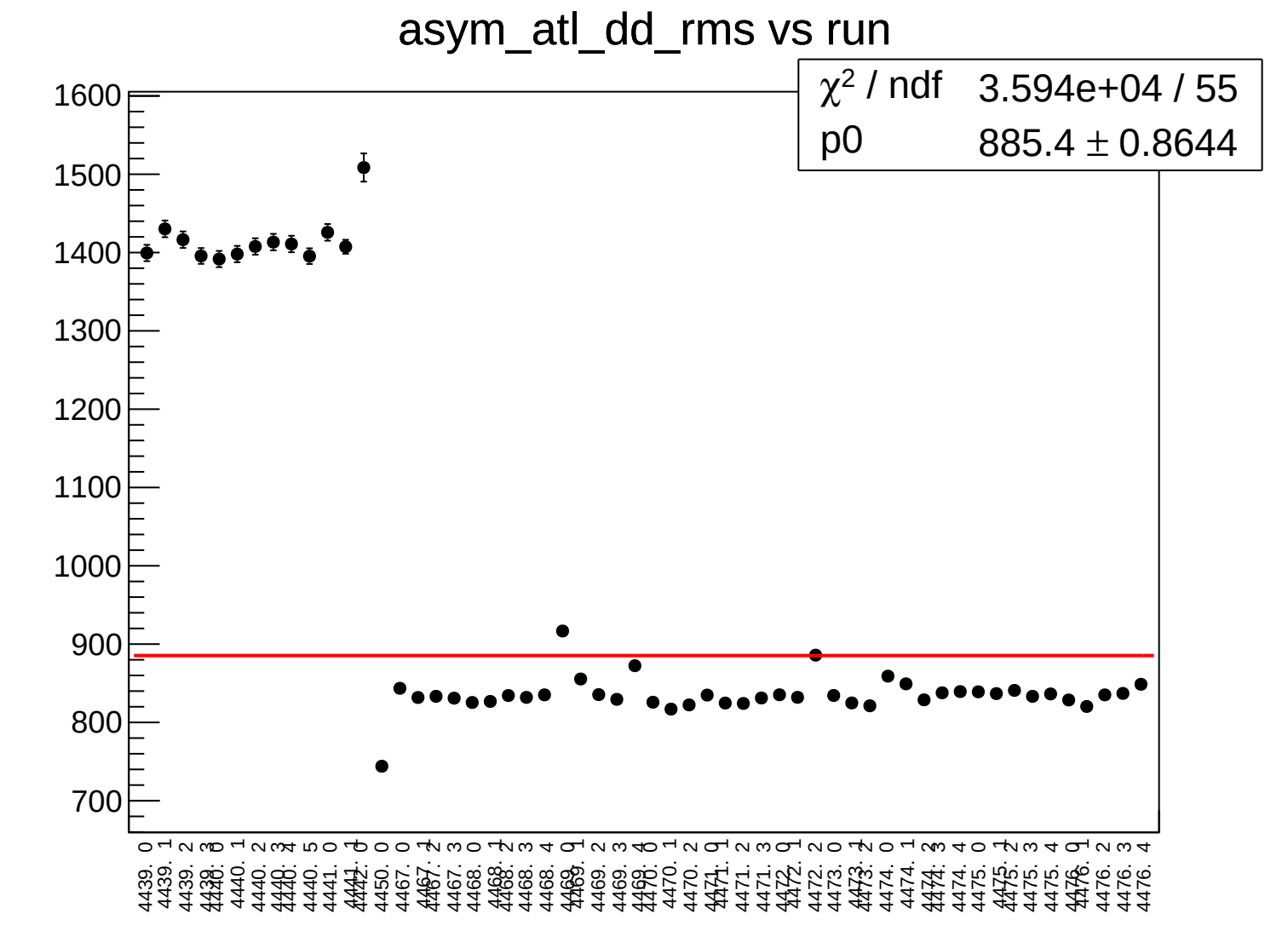

asym_atl_dd_correction_mean vs run
χ² / ndf 53.16 / 55
p0 −1859 ± 1152
pull
Entries 56
Mean −48.87
Std Dev 77.65

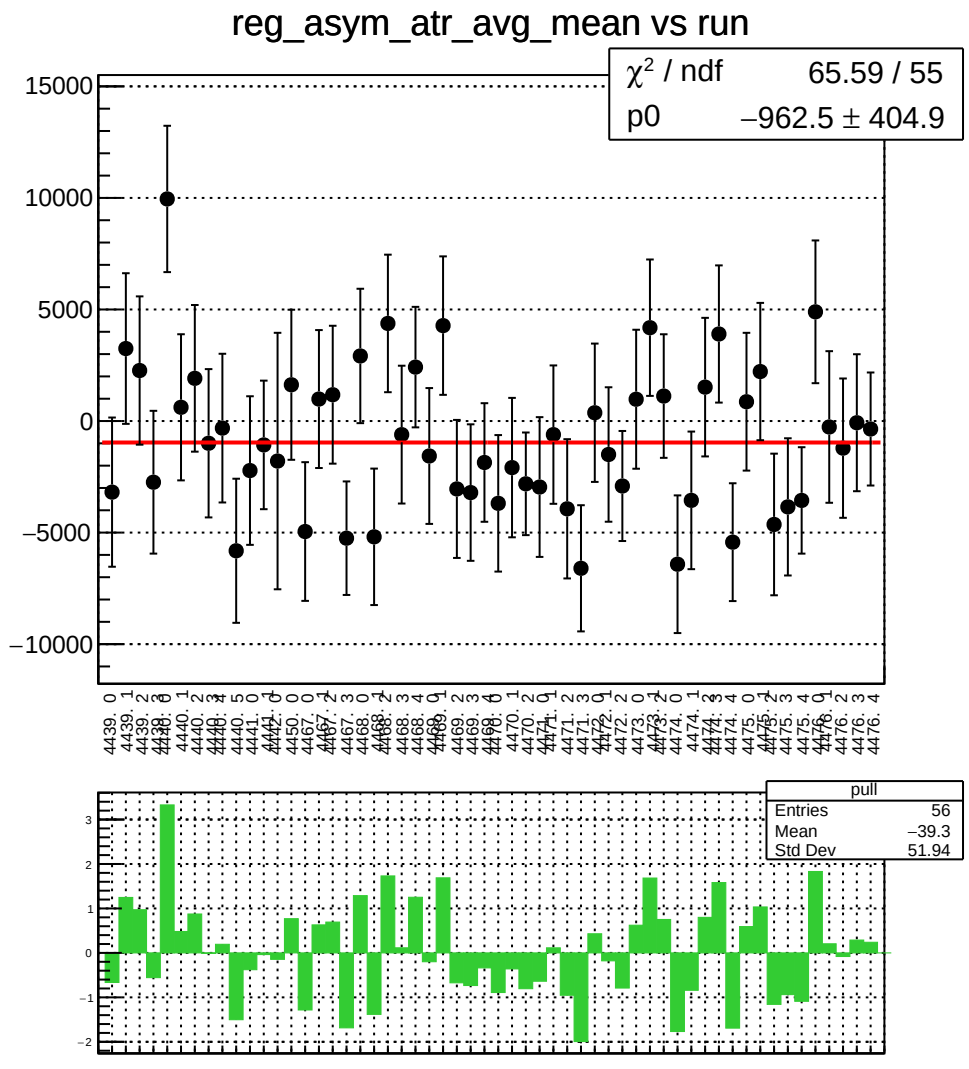

pull1D
Entries 56
Mean −0.04681
Std Dev 0.9732

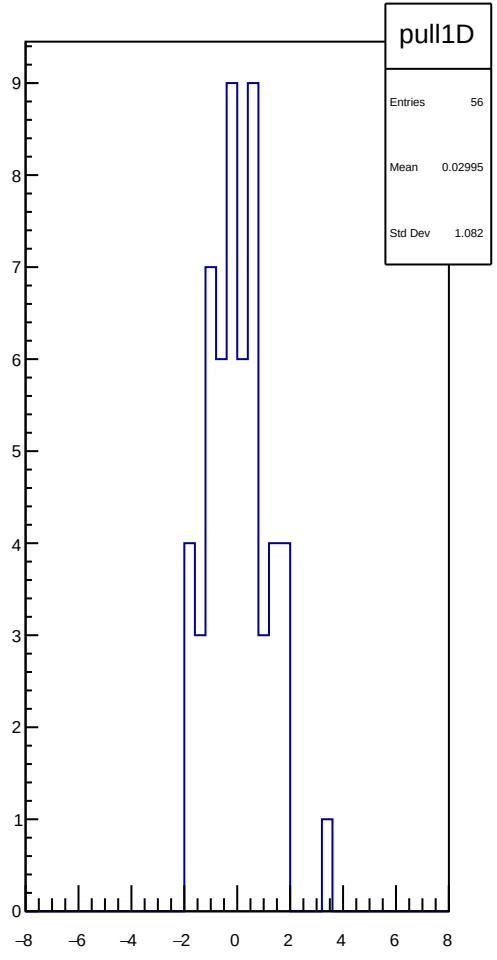

asym_atl_dd_correction_rms vs run
χ² / ndf 4.067e+04 / 55
p0 832.5 ± 0.8146
1500
1400
1300
1200
1100
1000
900
800
700

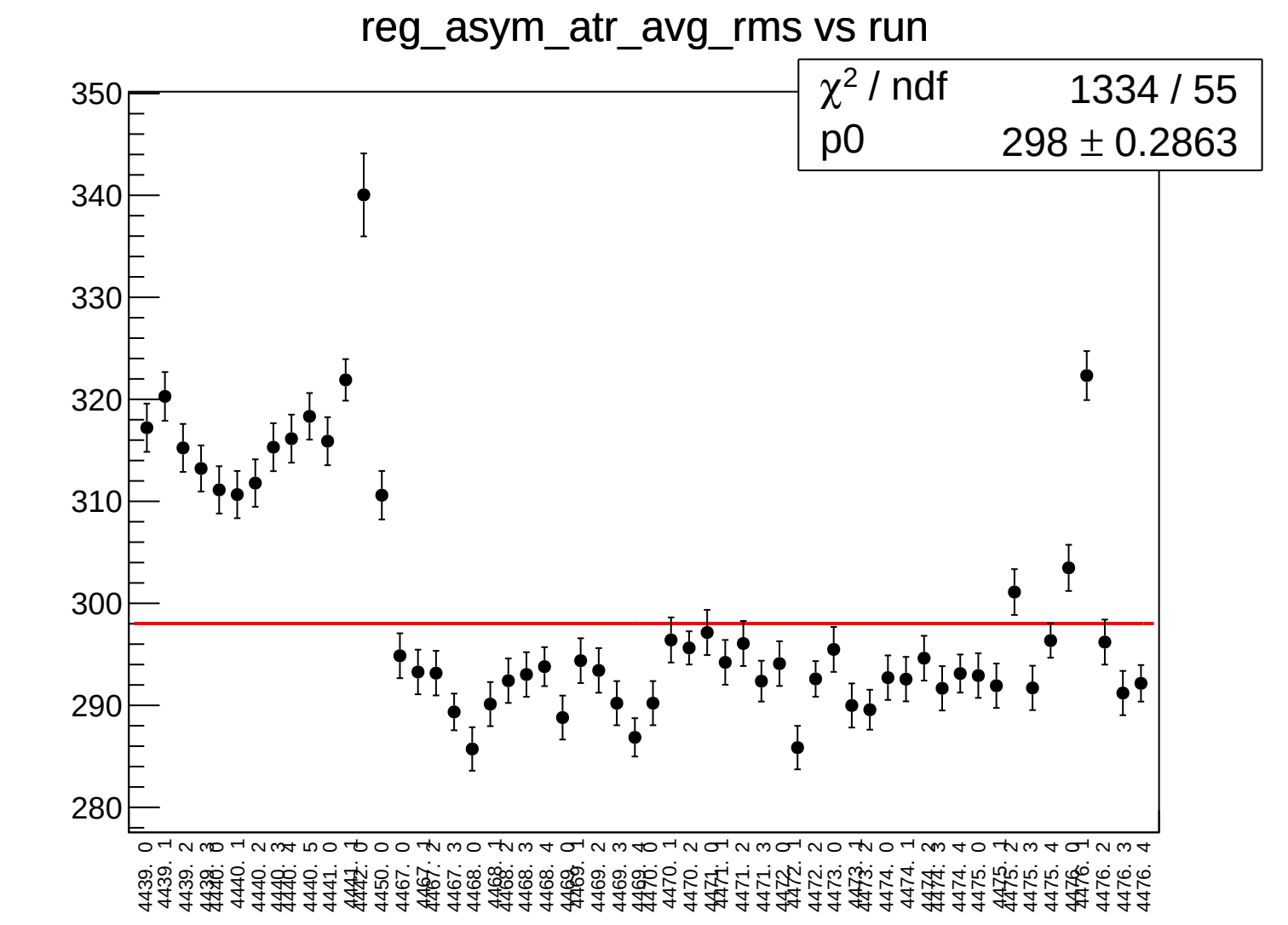

asym_atl_dd_mean vs run
χ² / ndf 53.81 / 55
p0 1811 ± 1222
pull
Entries 56
Mean −47.25
Std Dev 73.91

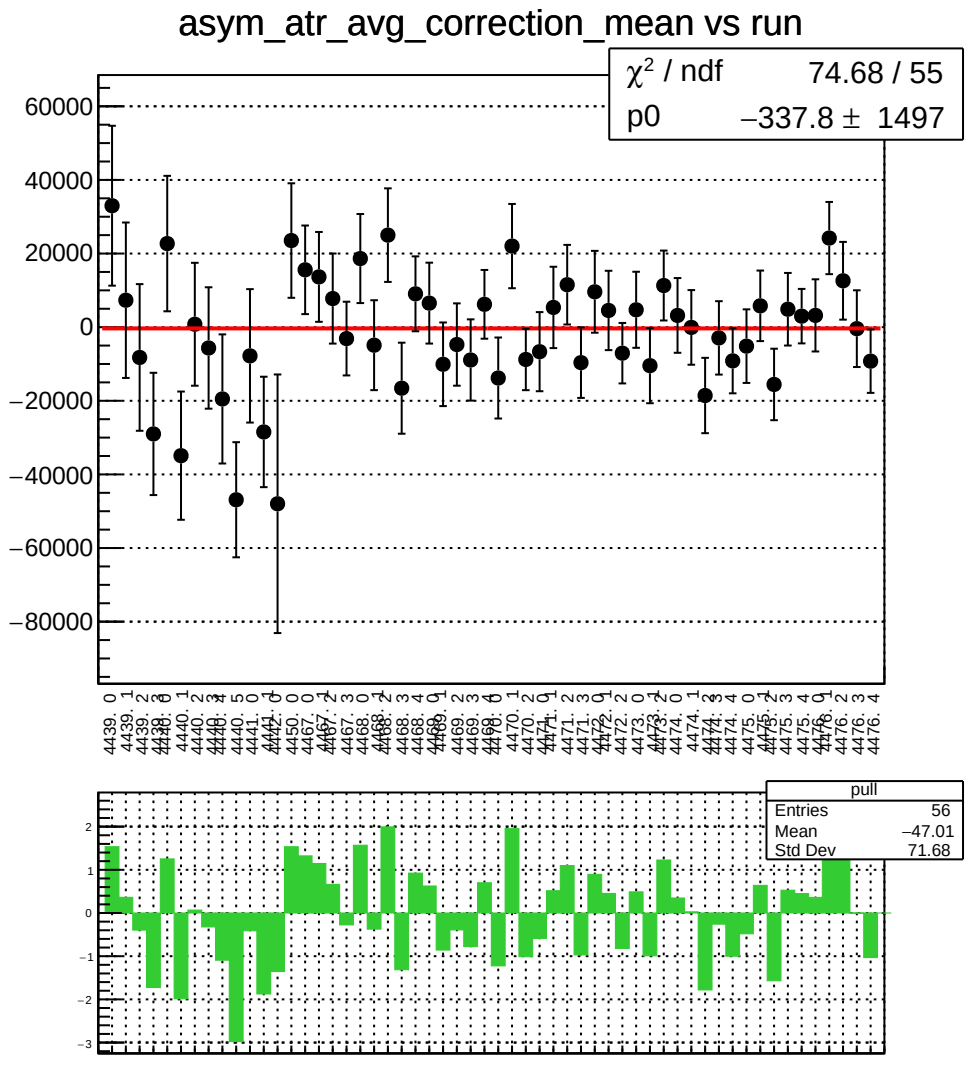

pull1D
Entries 56
Mean 0.04081
Std Dev 0.9794

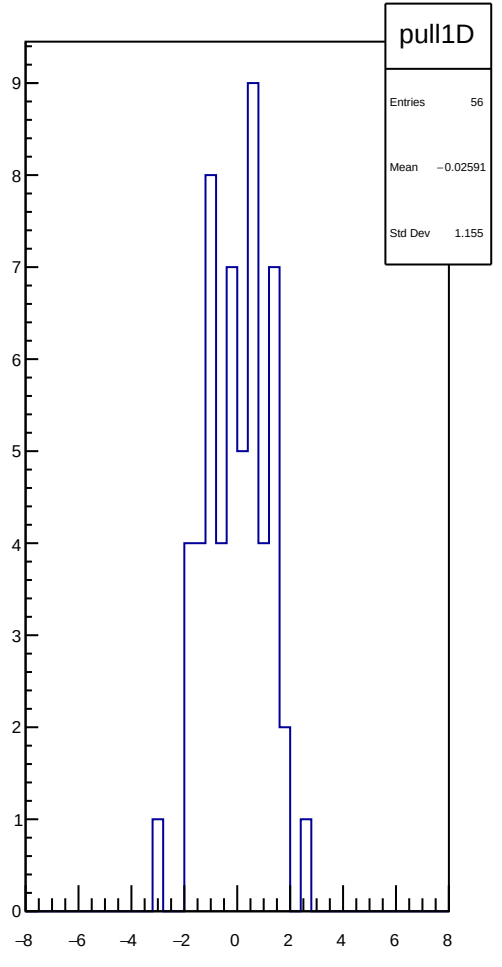

asym_atl_dd_rms vs run
χ² / ndf 3.594e+04 / 55
p0 885.4 ± 0.8644
1600
1500
1400
1300
1200
1100
1000
900
800
700

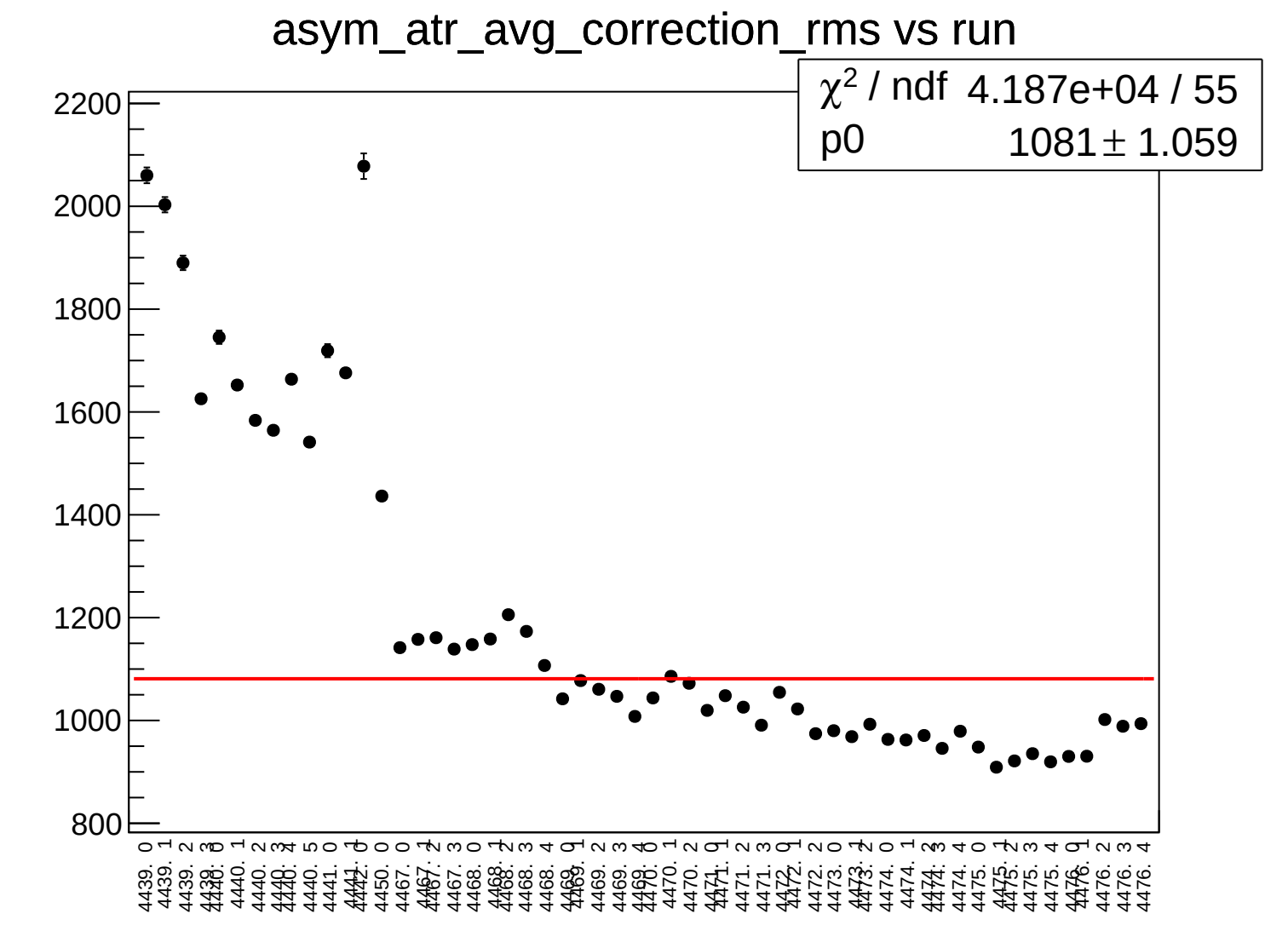

reg_asym_atr_avg_mean vs run
χ² / ndf 65.59 / 55
p0 −962.5 ± 404.9
15000
10000
5000
0
−5000
−10000
pull
Entries 56
Mean −39.3
Std Dev 51.94
3
2
1
0
−1
−2

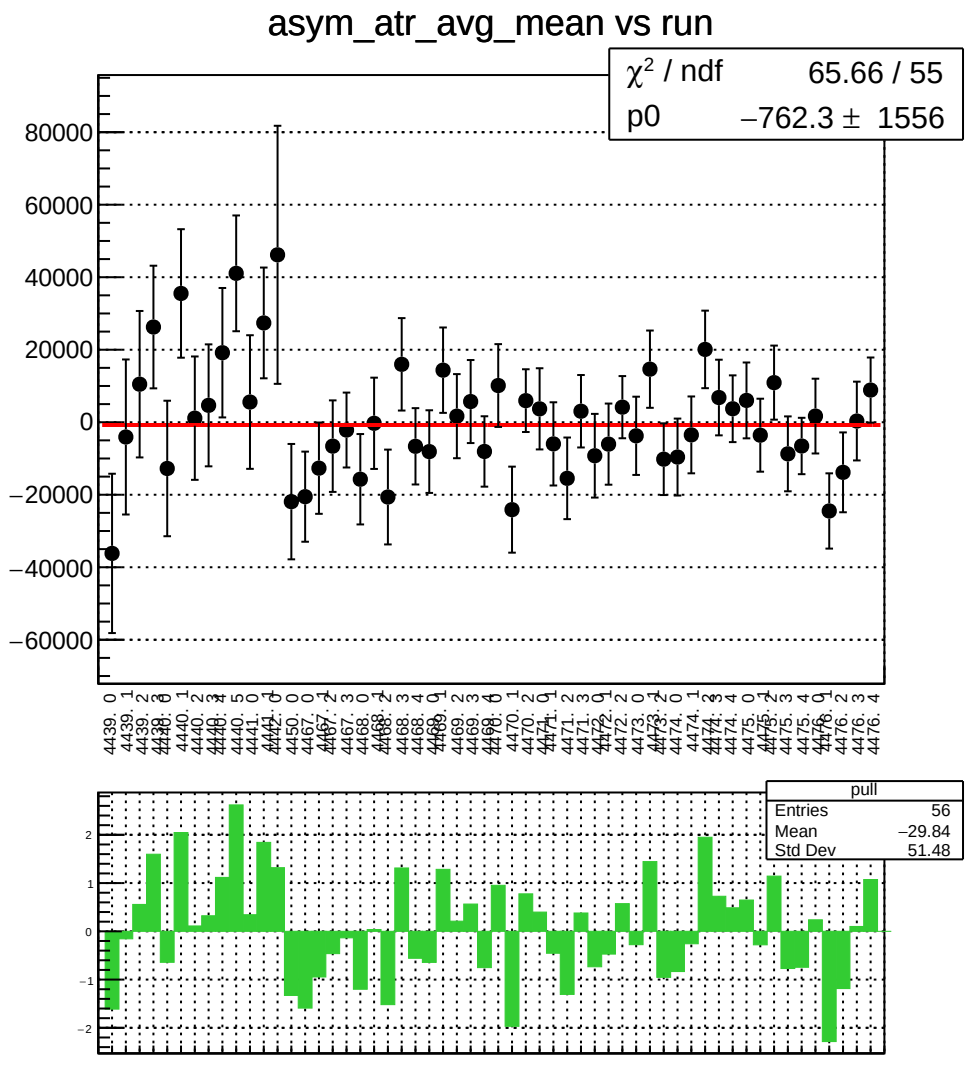

pull1D
Entries 56
Mean 0.02995
Std Dev 1.082
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

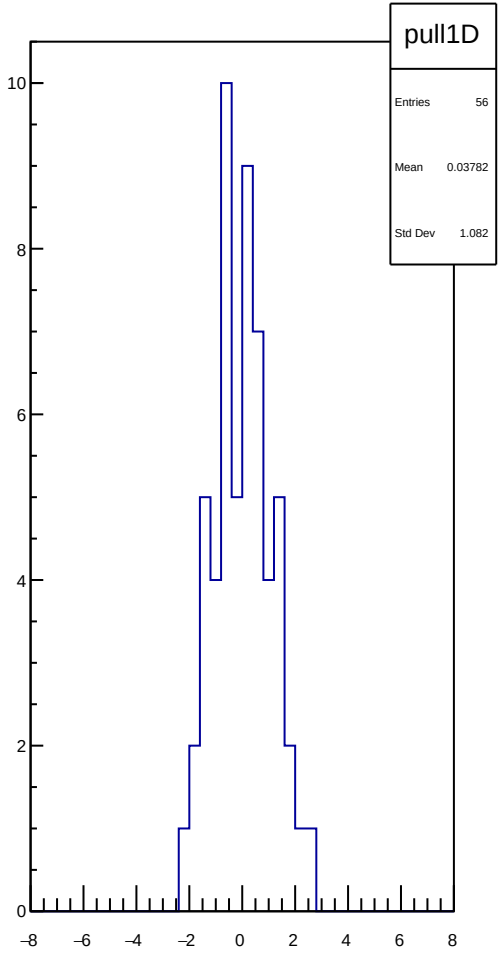

reg_asym_atr_avg_rms vs run
χ² / ndf 1334 / 55
p0 298 ± 0.2863
350
340
330
320
310
300
290
280

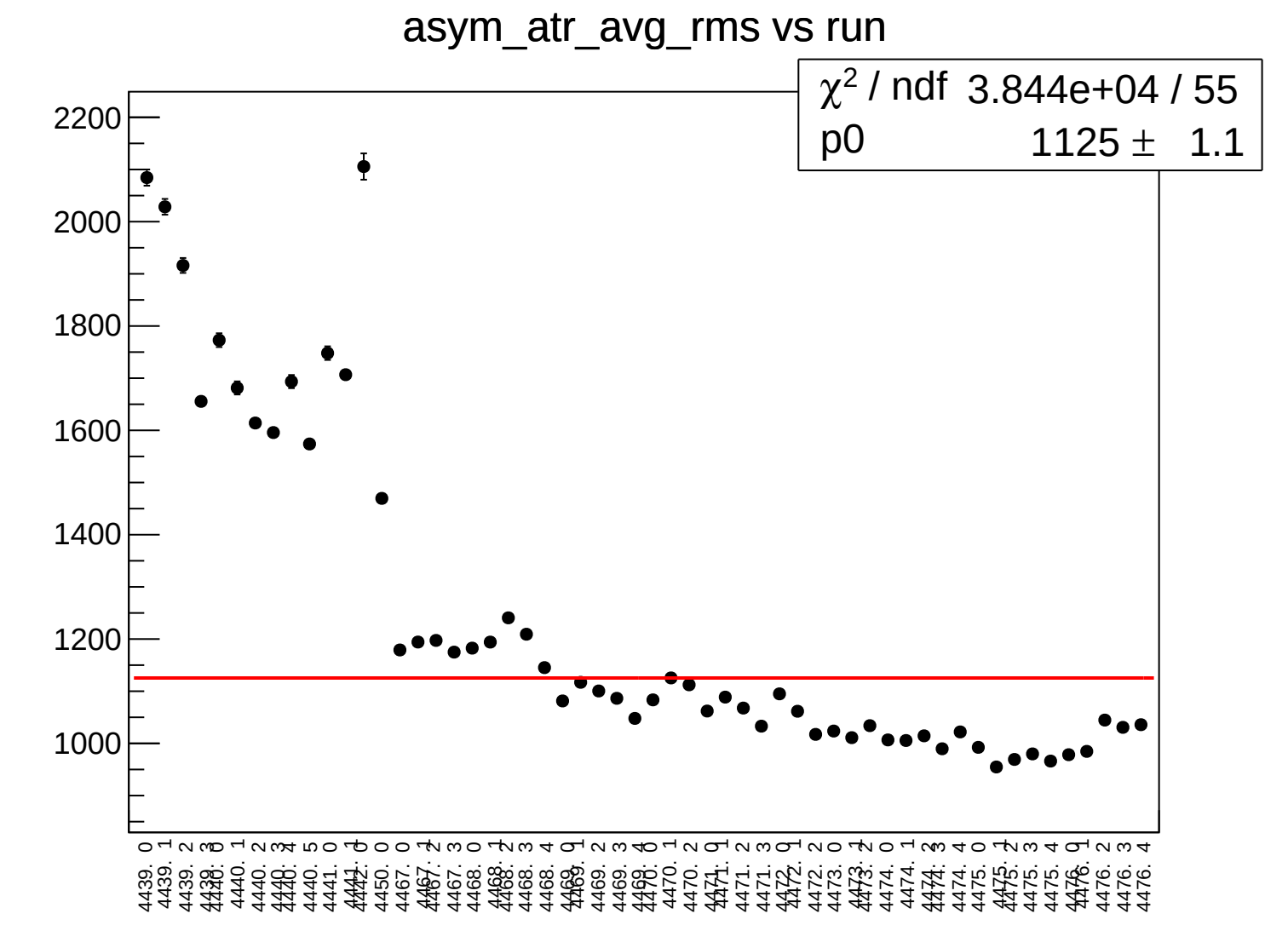

asym_atr_avg_correction_mean vs run
χ² / ndf 74.68 / 55
p0 −337.8 ± 1497
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 56
Mean −47.01
Std Dev 71.68
2
1
0
−1
−2
−3


pull1D
Entries 56
Mean −0.02591
Std Dev 1.155
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_correction_rms vs run
χ² / ndf 4.187e+04 / 55
p0 1081 ± 1.059
2200
2000
1800
1600
1400
1200
1000
800
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4


asym_atr_avg_mean vs run
χ² / ndf 65.66 / 55
p0 −762.3 ± 1556
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 56
Mean −29.84
Std Dev 51.48
2
1
0
−1
−2


pull1D
Entries 56
Mean 0.03782
Std Dev 1.082
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_rms vs run
χ² / ndf 3.844e+04 / 55
p0 1125 ± 1.1
2200
2000
1800
1600
1400
1200
1000
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
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4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
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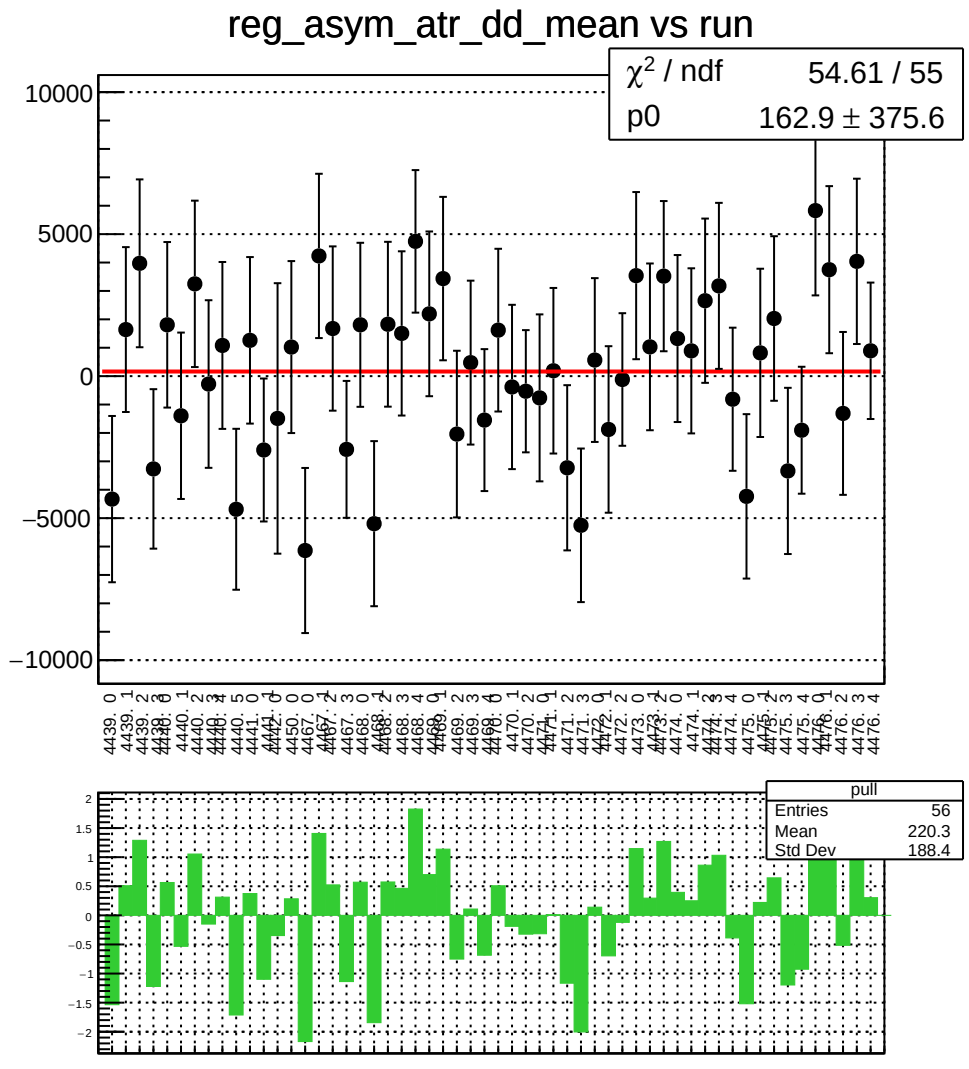
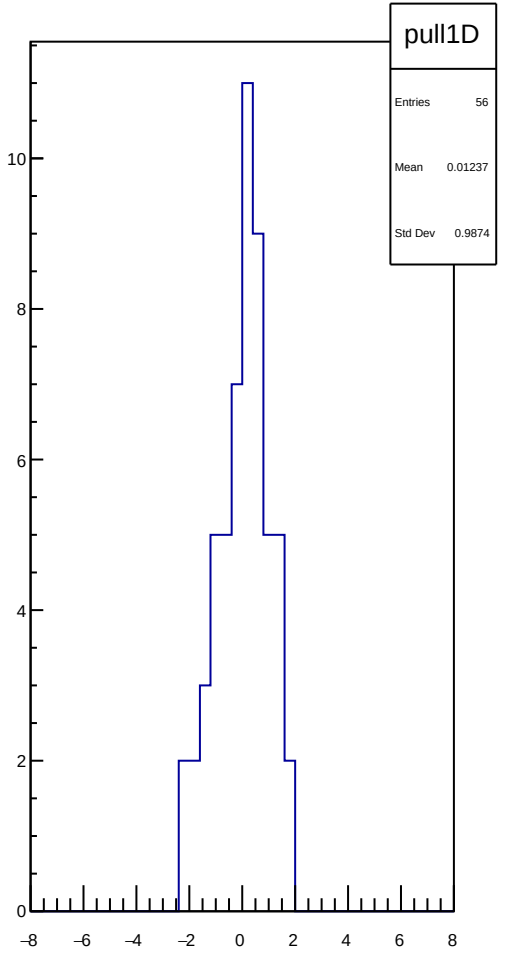
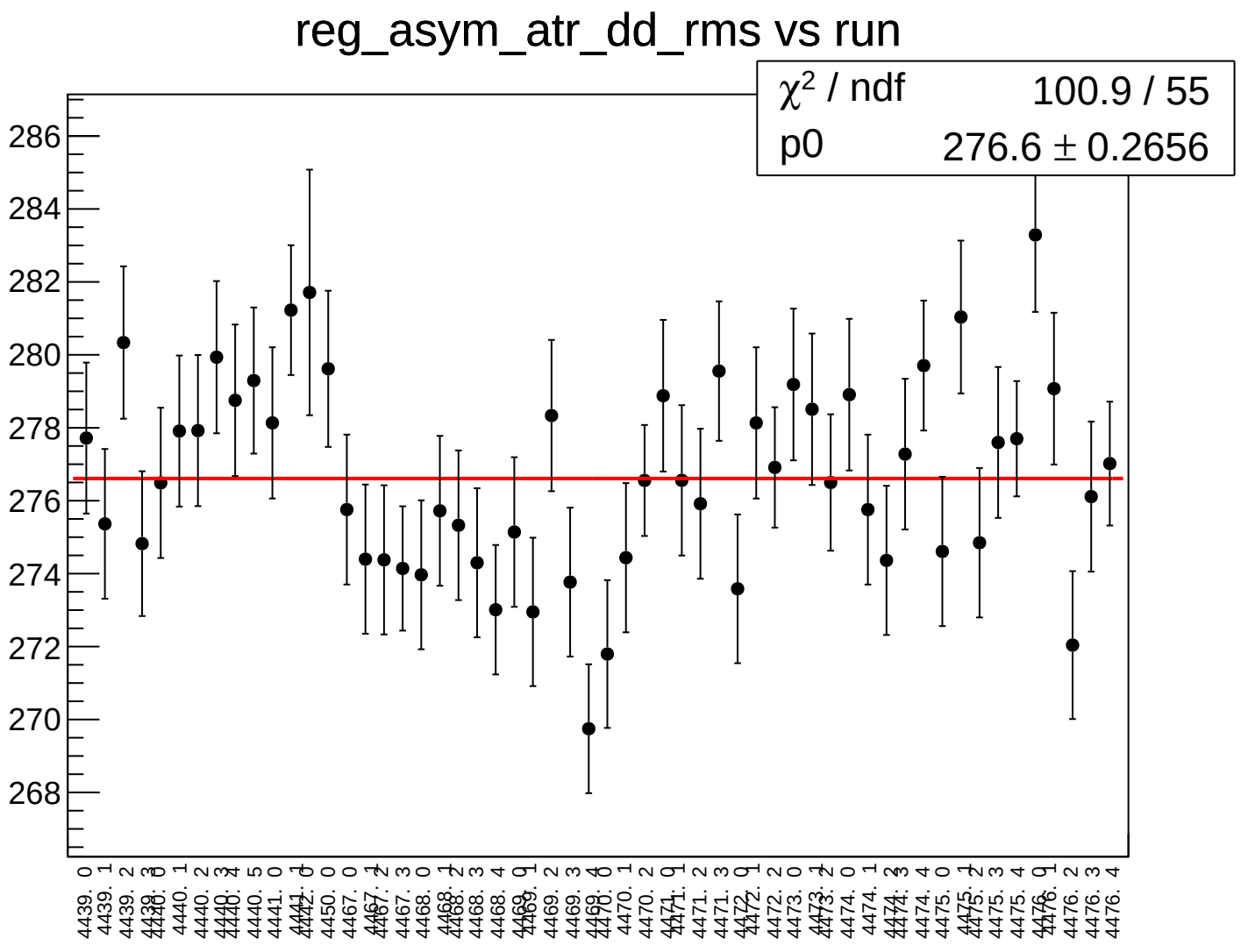
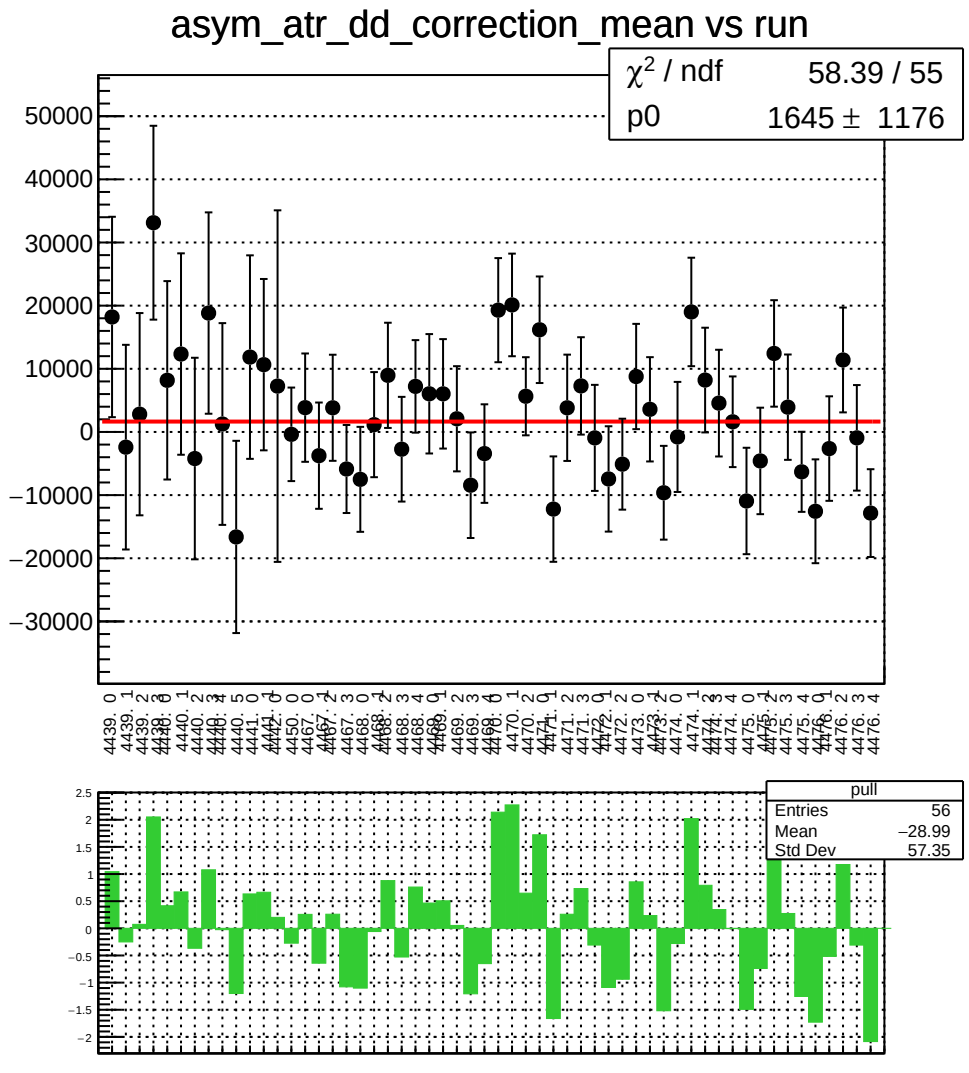
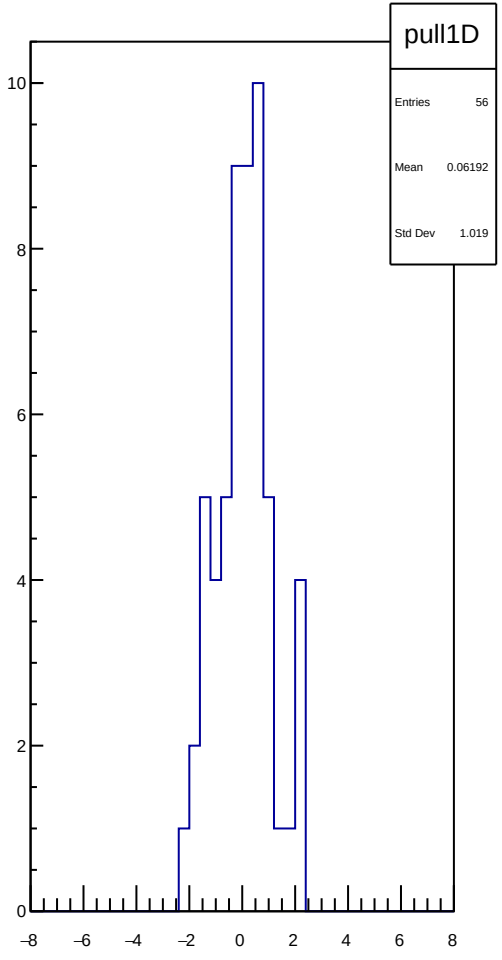
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

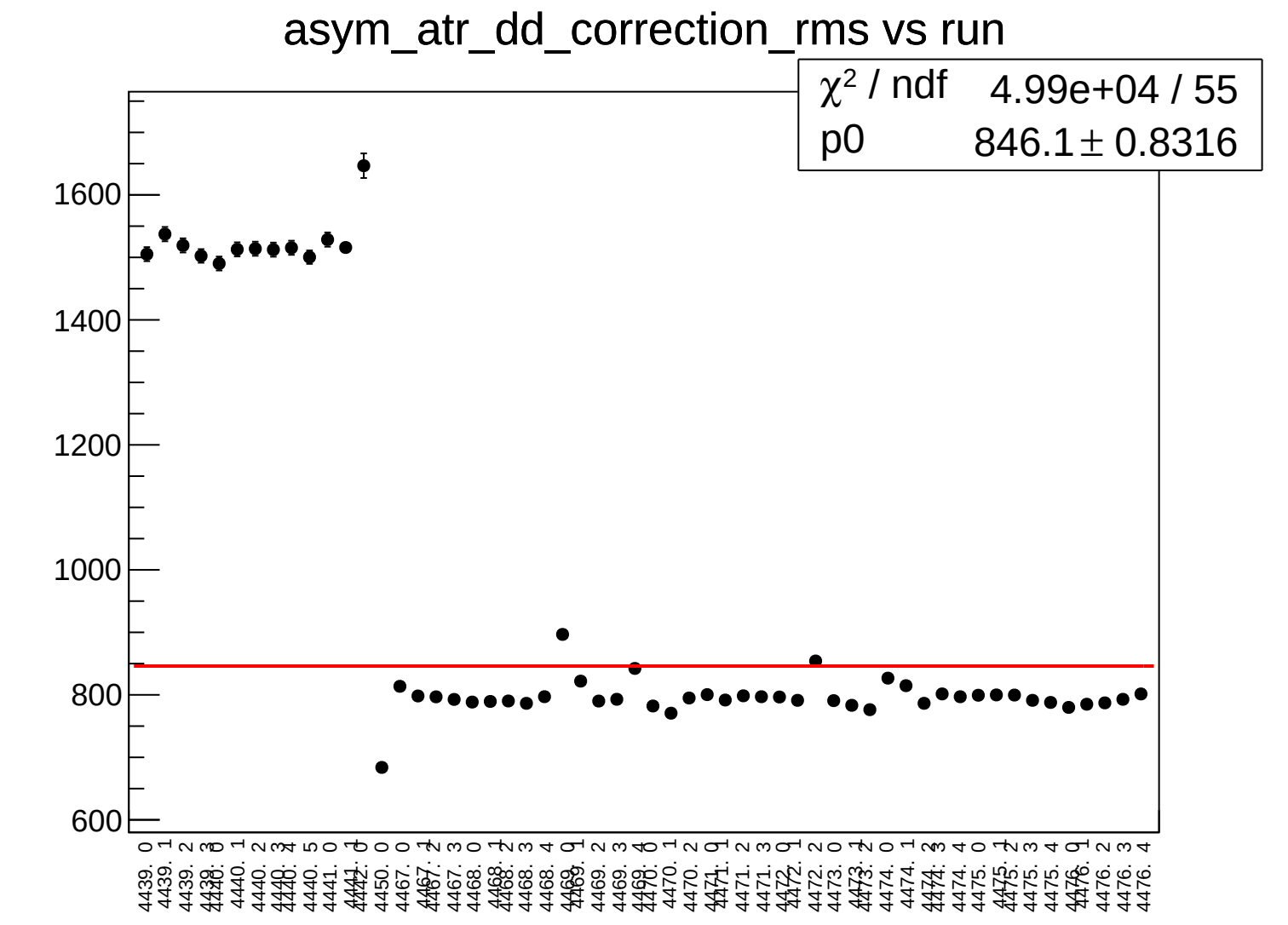

reg_asym_atr_dd_mean vs run
χ² / ndf 54.61 / 55
p0 162.9 ± 375.6
10000
5000
0
−5000
−10000
pull
Entries 56
Mean 220.3
Std Dev 188.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

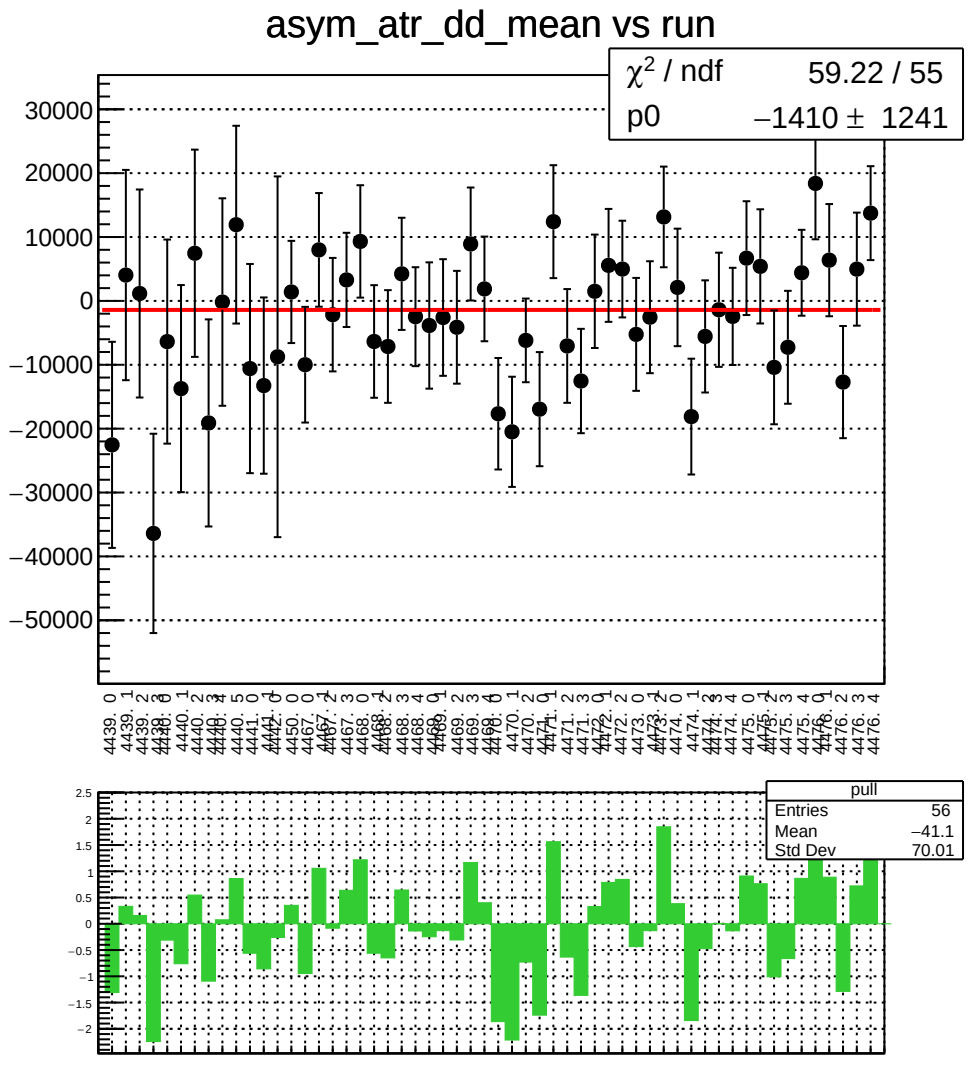

pull1D
Entries 56
Mean 0.01237
Std Dev 0.9874
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

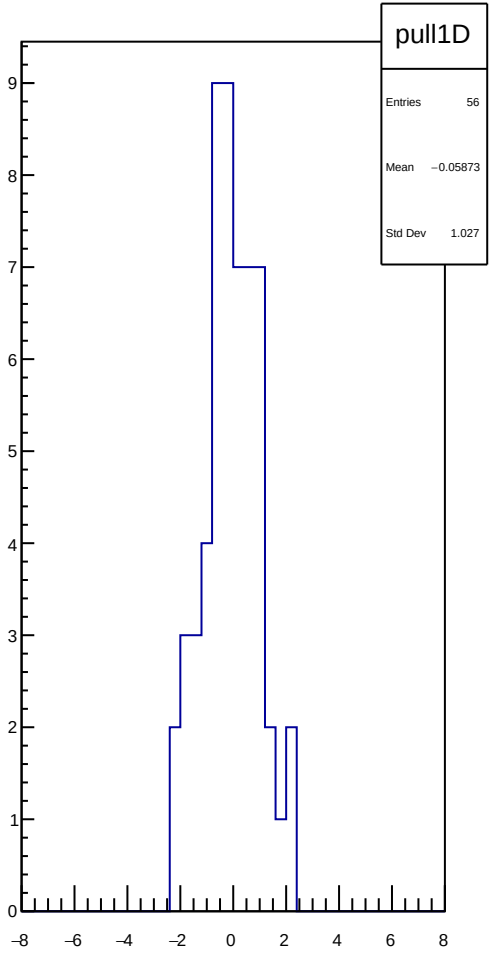

reg_asym_atr_dd_rms vs run
χ² / ndf 100.9 / 55
p0 276.6 ± 0.2656
286
284
282
280
278
276
274
272
270
268
4439. 0
4439. 1
4439. 2
4439. 3
4439. 4
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4441. 2
4441. 3
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

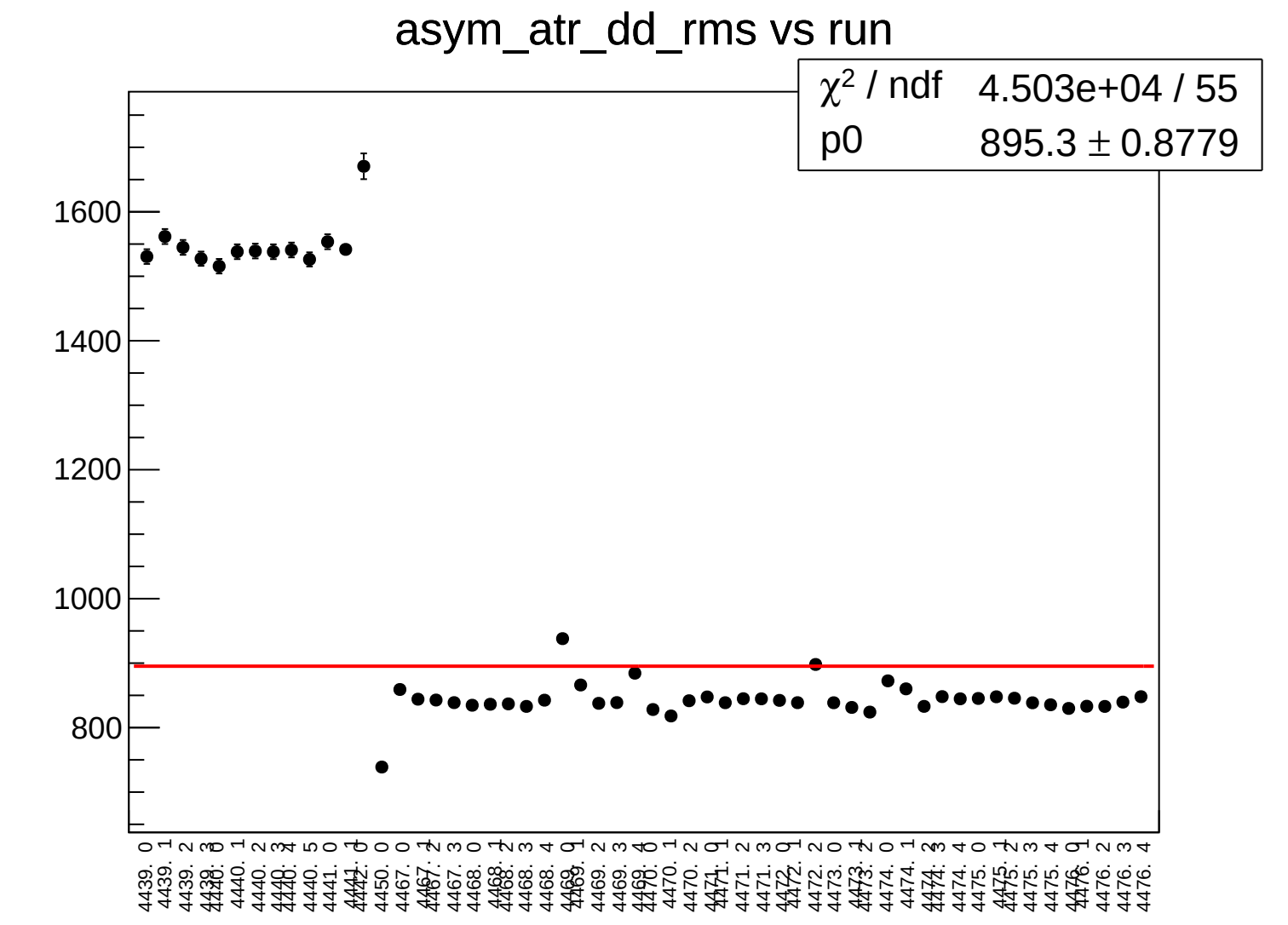

asym_atr_dd_correction_mean vs run
χ² / ndf 58.39 / 55
p0 1645 ± 1176
pull
Entries 56
Mean −28.99
Std Dev 57.35

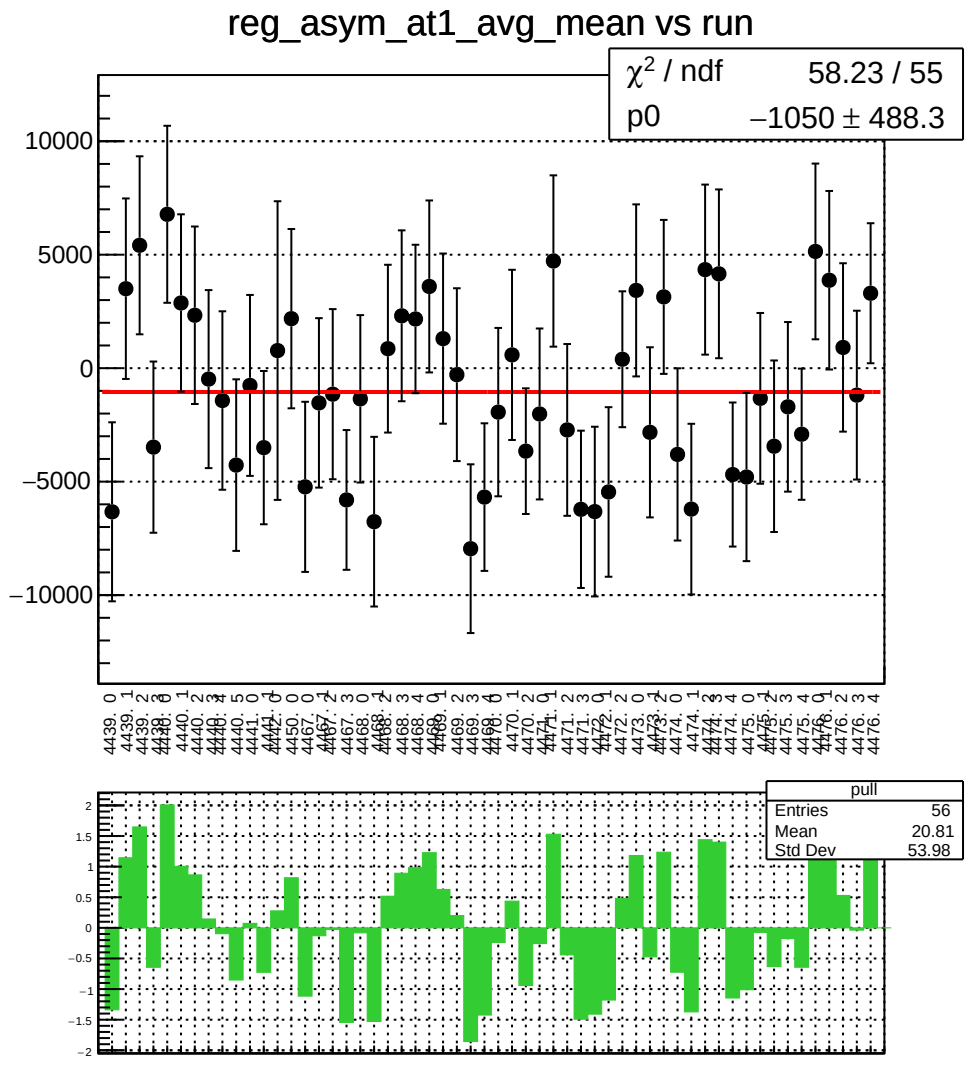

pull1D
Entries 56
Mean 0.06192
Std Dev 1.019

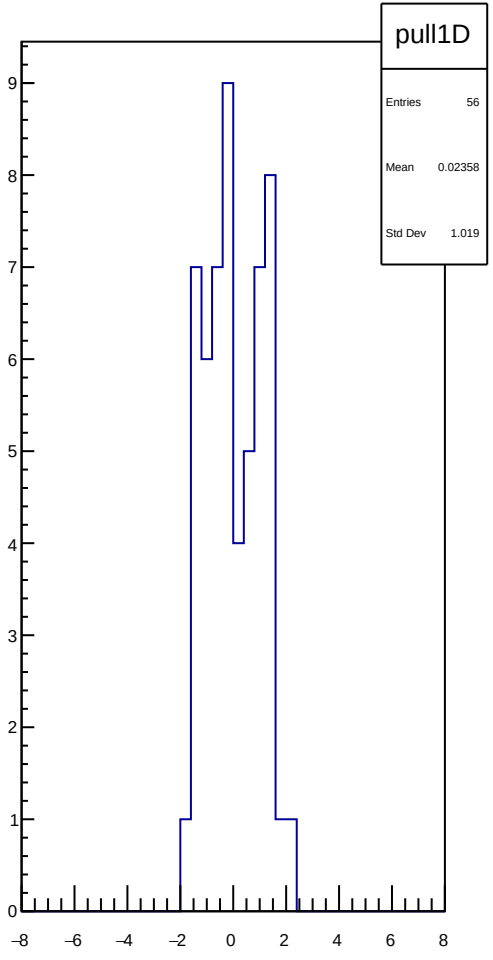

asym_atr_dd_correction_rms vs run
χ² / ndf 4.99e+04 / 55
p0 846.1 ± 0.8316
1600
1400
1200
1000
800
600
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

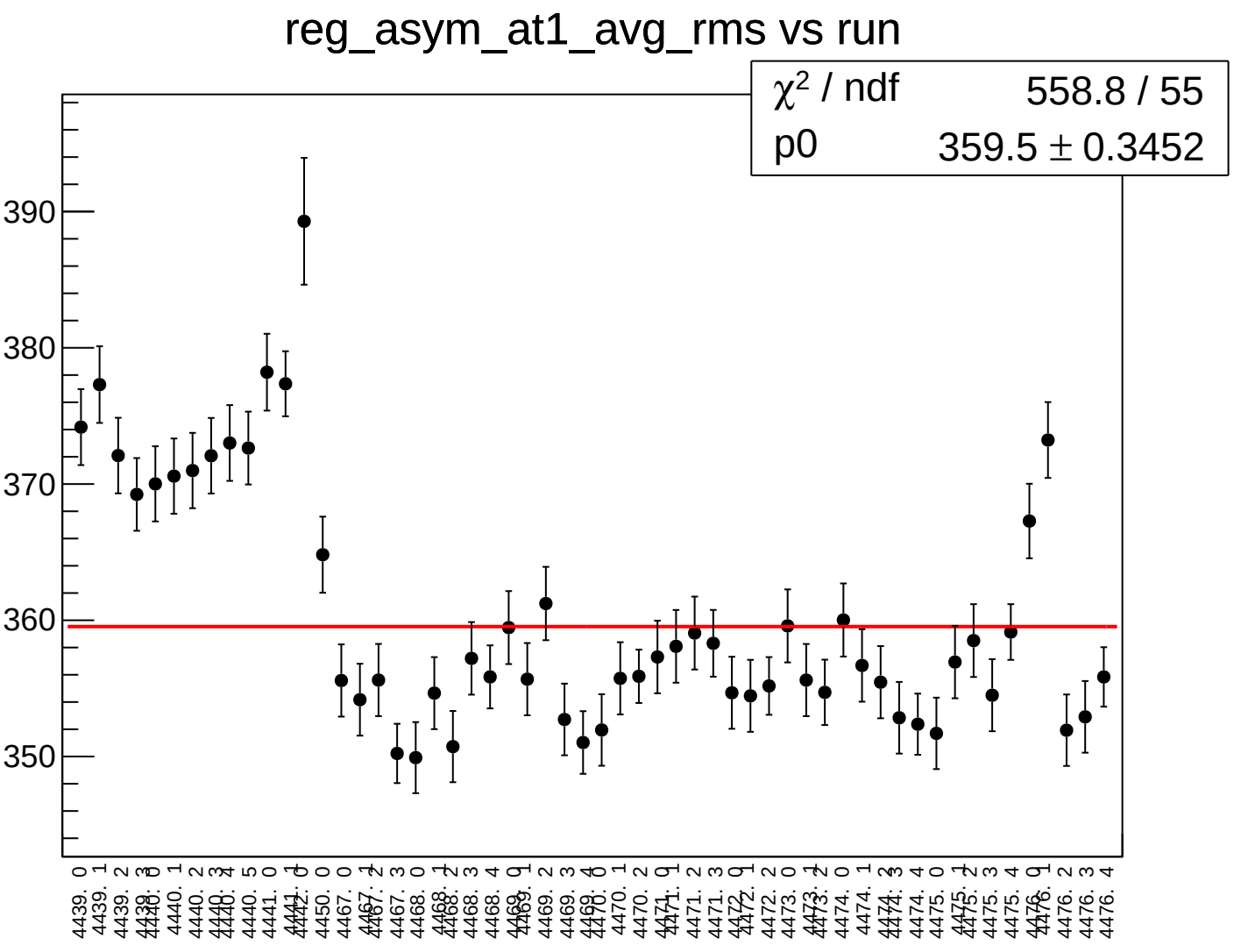

asym_atr_dd_mean vs run
χ² / ndf 59.22 / 55
p0 −1410 ± 1241
pull
Entries 56
Mean −41.1
Std Dev 70.01

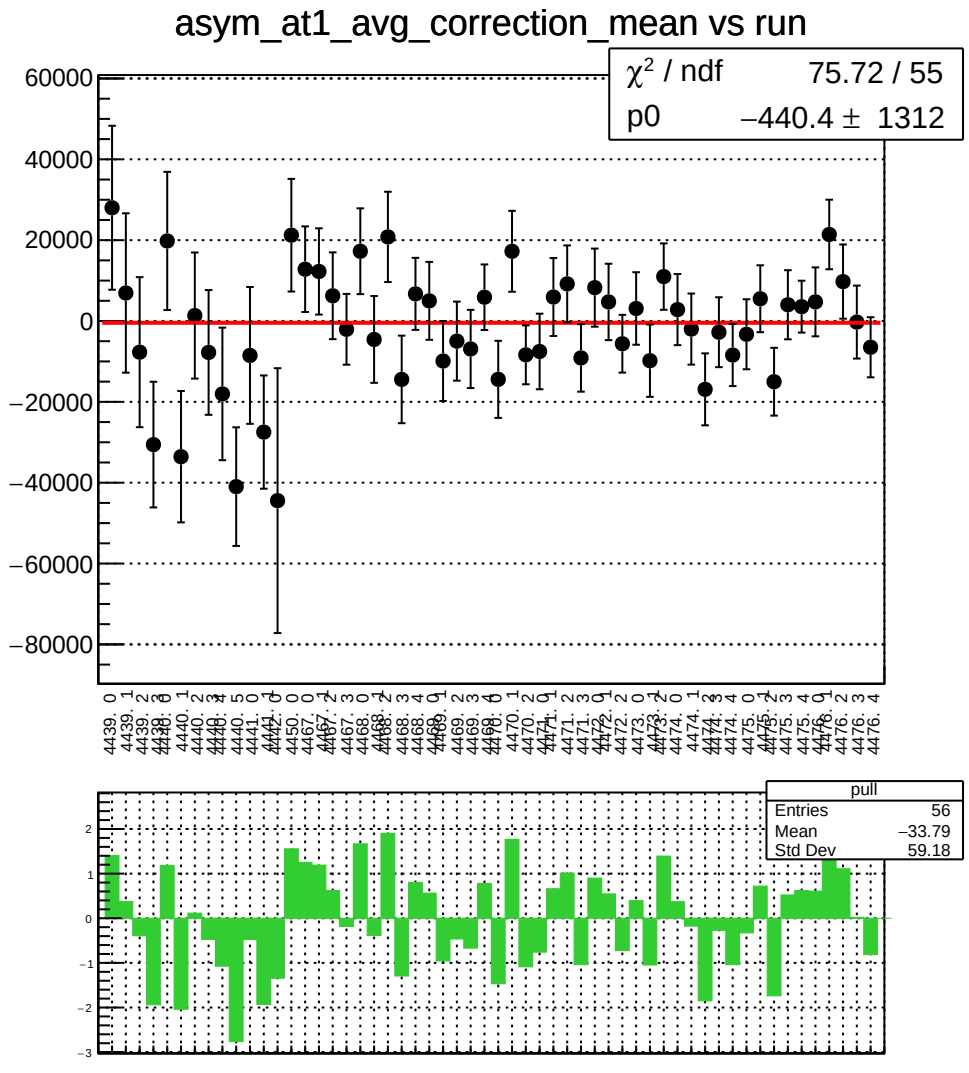

pull1D
Entries 56
Mean −0.05873
Std Dev 1.027

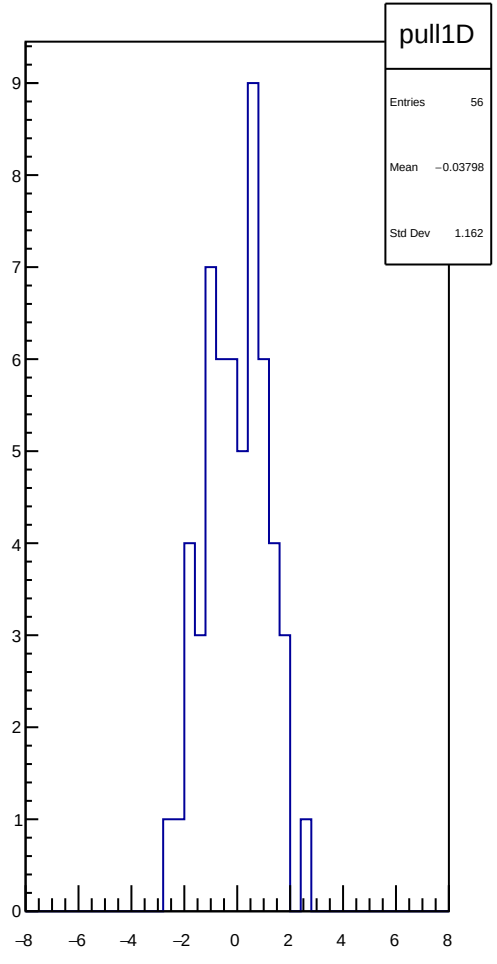

asym_atr_dd_rms vs run
χ² / ndf 4.503e+04 / 55
p0 895.3 ± 0.8779
1600
1400
1200
1000
800

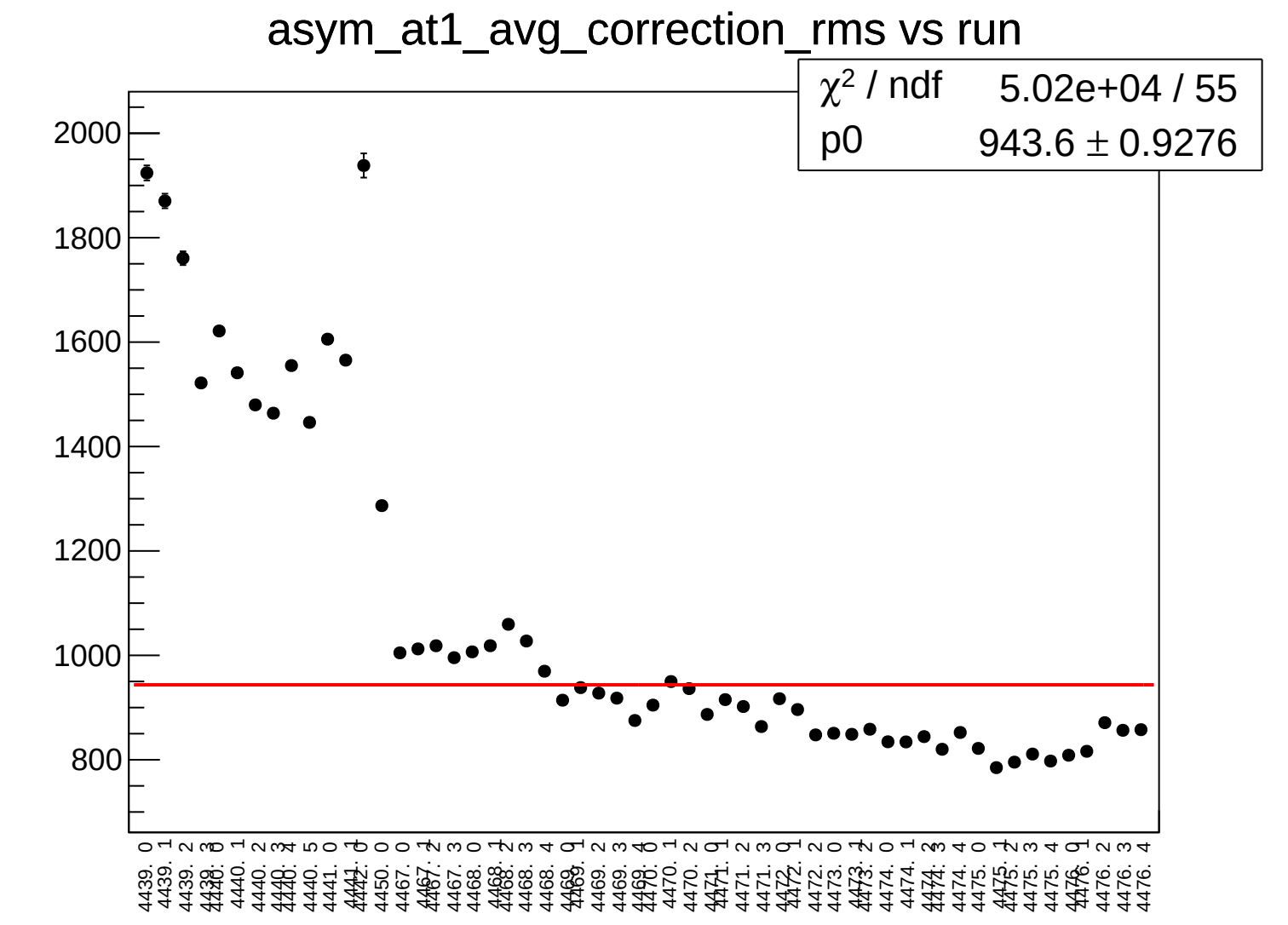

reg_asym_at1_avg_mean vs run
χ² / ndf 58.23 / 55
p0 −1050 ± 488.3
10000
5000
0
−5000
−10000
pull
Entries 56
Mean 20.81
Std Dev 53.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

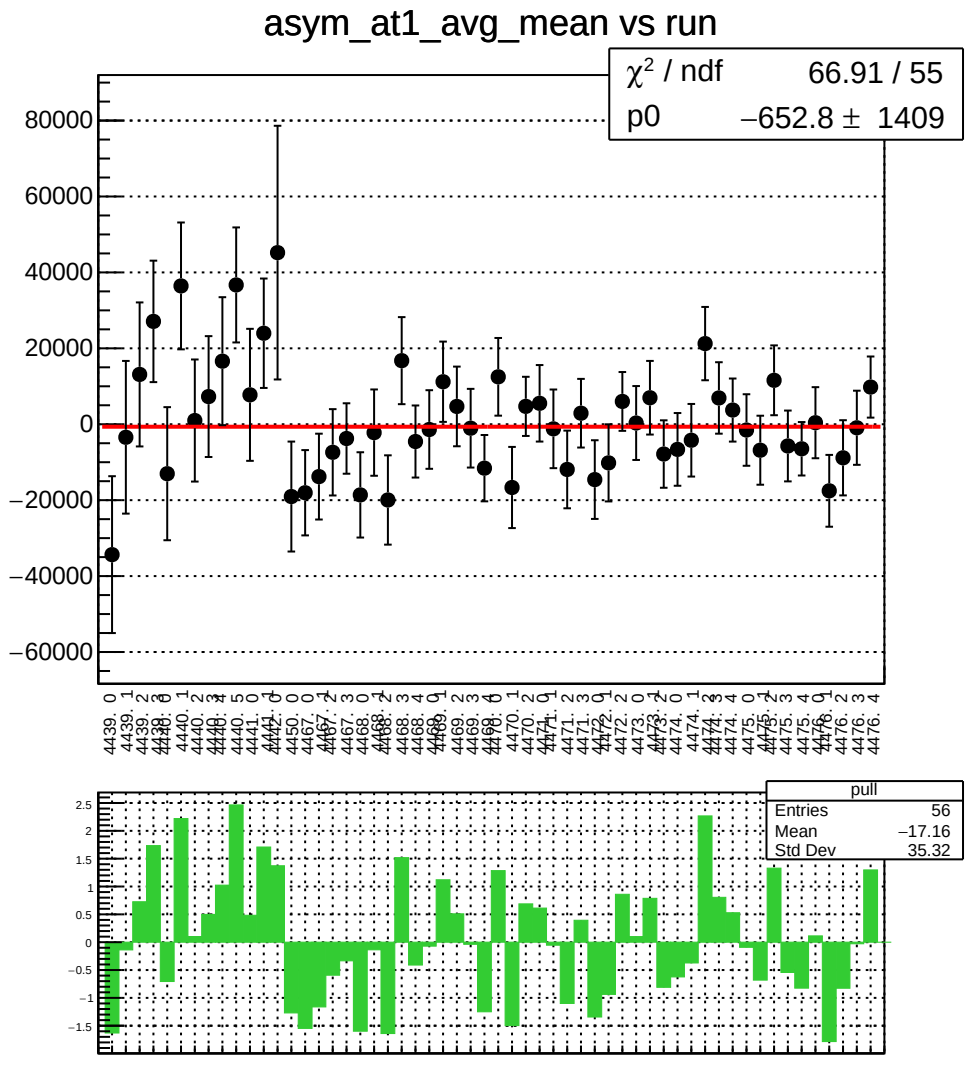

pull1D
Entries 56
Mean 0.02358
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

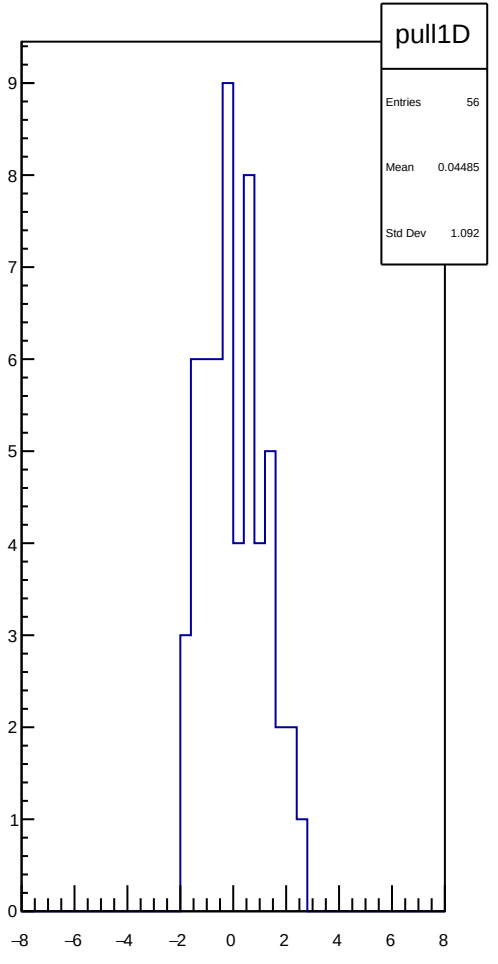

reg_asym_at1_avg_rms vs run
χ² / ndf 558.8 / 55
p0 359.5 ± 0.3452
390
380
370
360
350

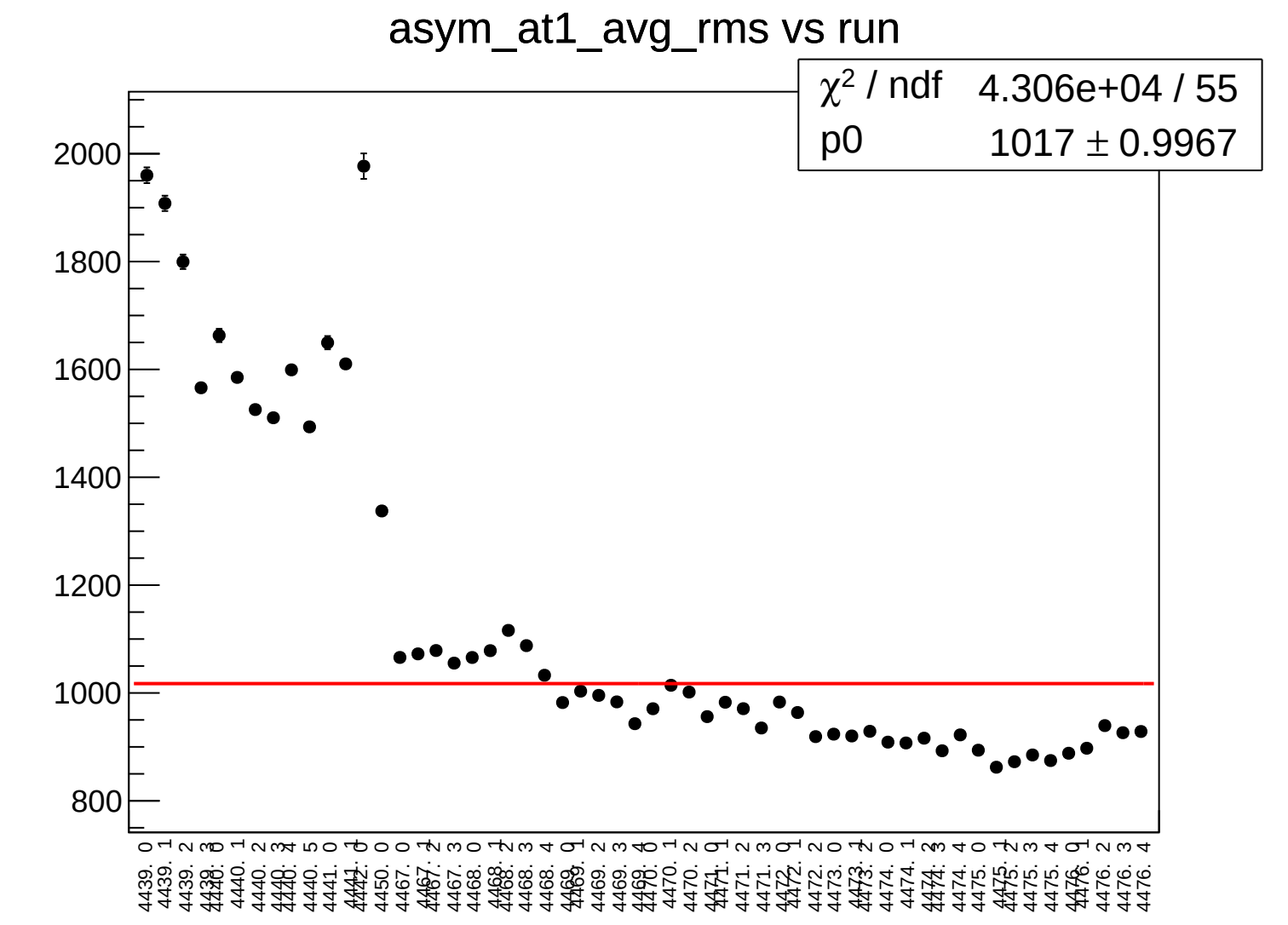

asym_at1_avg_correction_mean vs run
χ² / ndf 75.72 / 55
p0 −440.4 ± 1312
pull
Entries 56
Mean −33.79
Std Dev 59.18

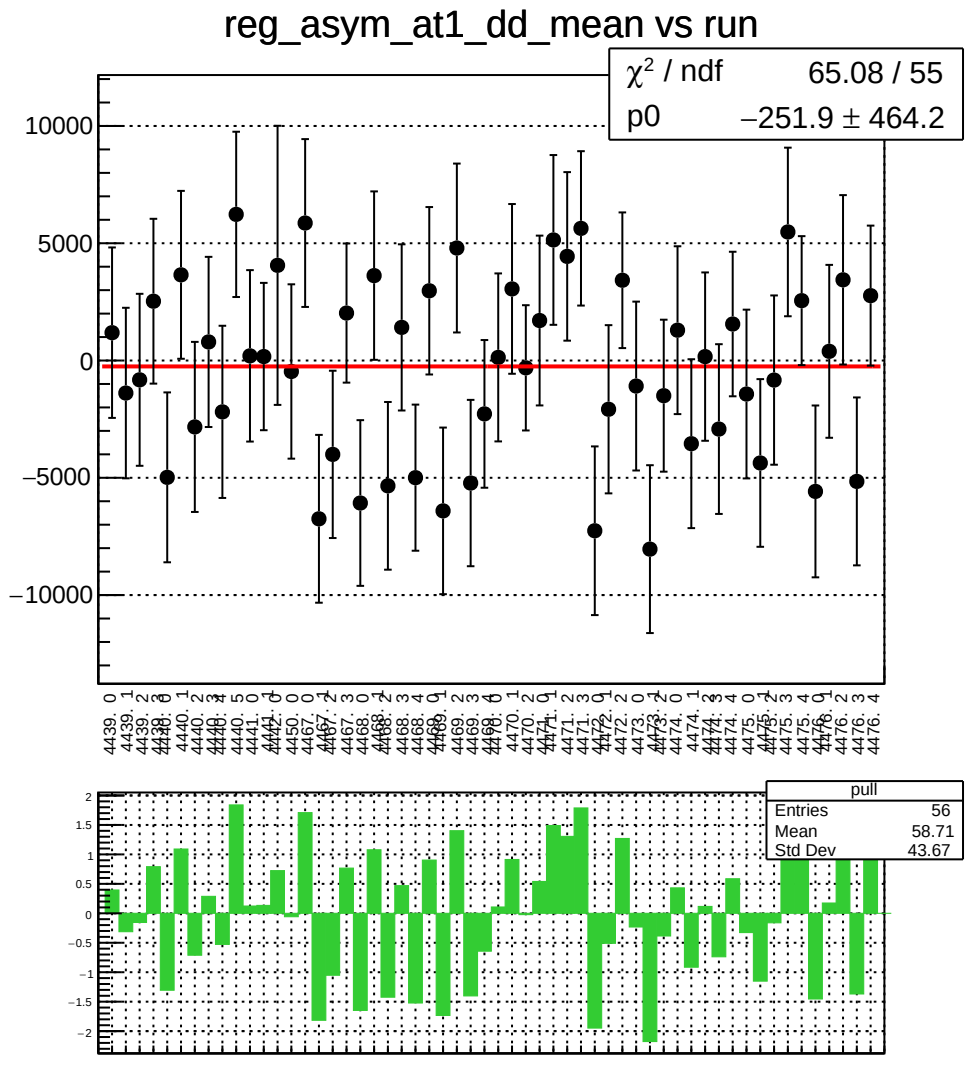

pull1D
Entries 56
Mean −0.03798
Std Dev 1.162

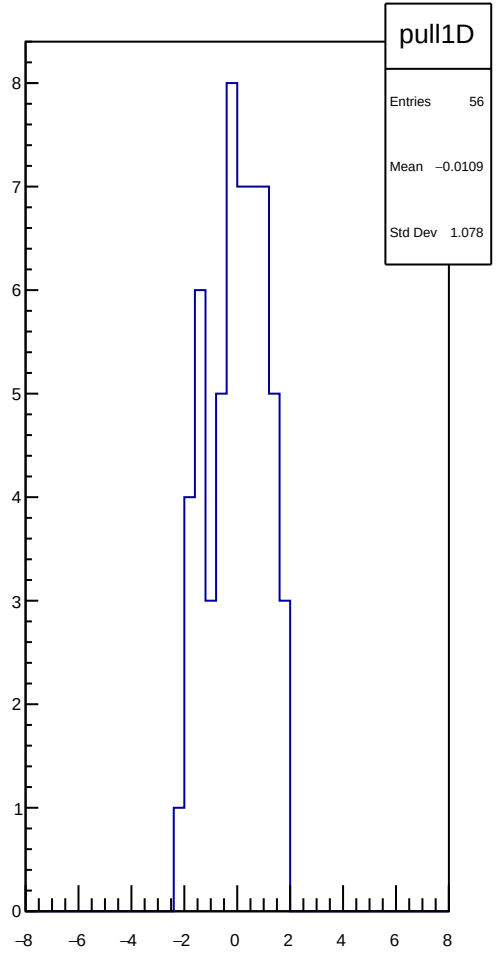

asym_at1_avg_correction_rms vs run
χ² / ndf 5.02e+04 / 55
p0 943.6 ± 0.9276
2000
1800
1600
1400
1200
1000
800

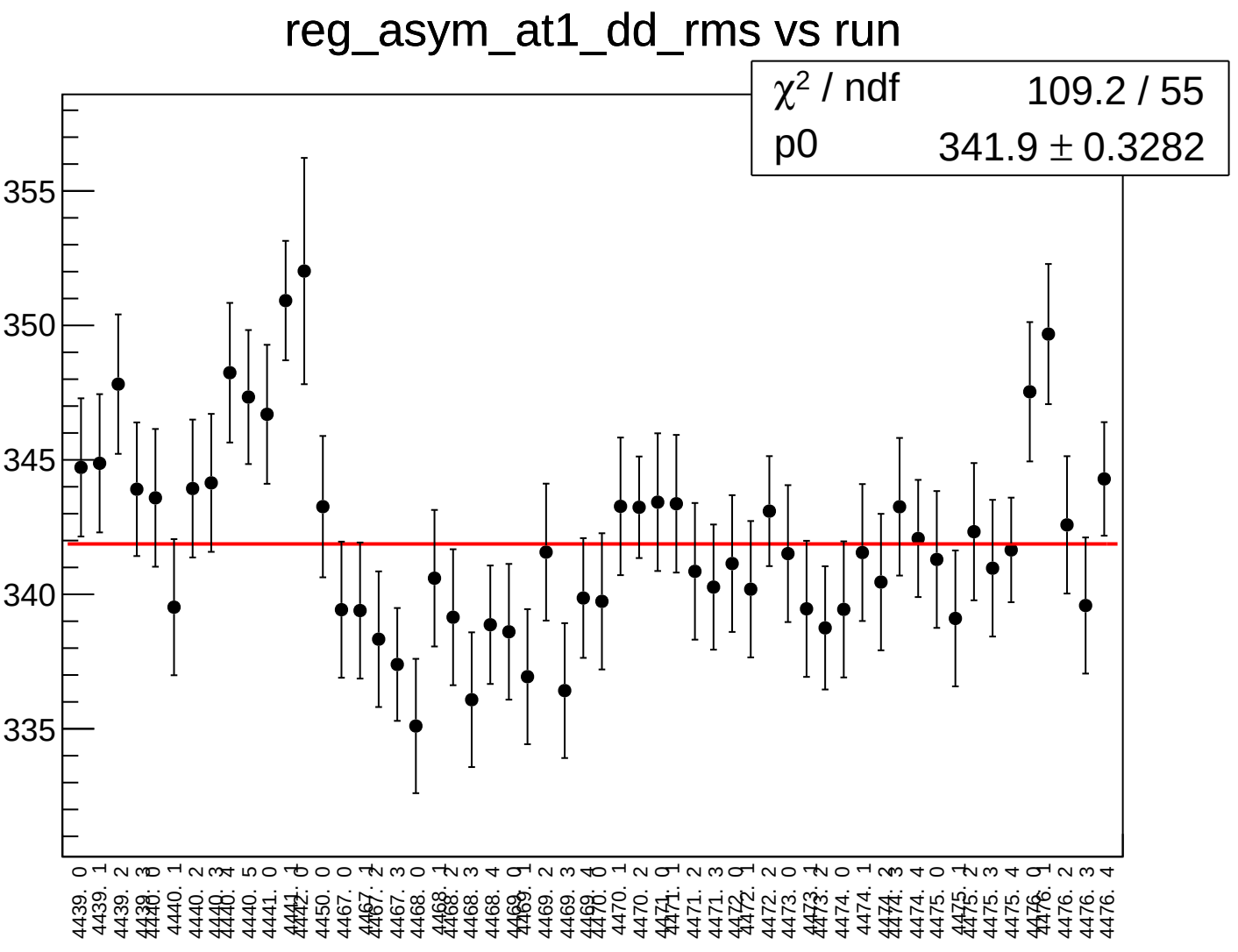

asym_at1_avg_mean vs run
χ² / ndf 66.91 / 55
p0 −652.8 ± 1409
pull
Entries 56
Mean −17.16
Std Dev 35.32

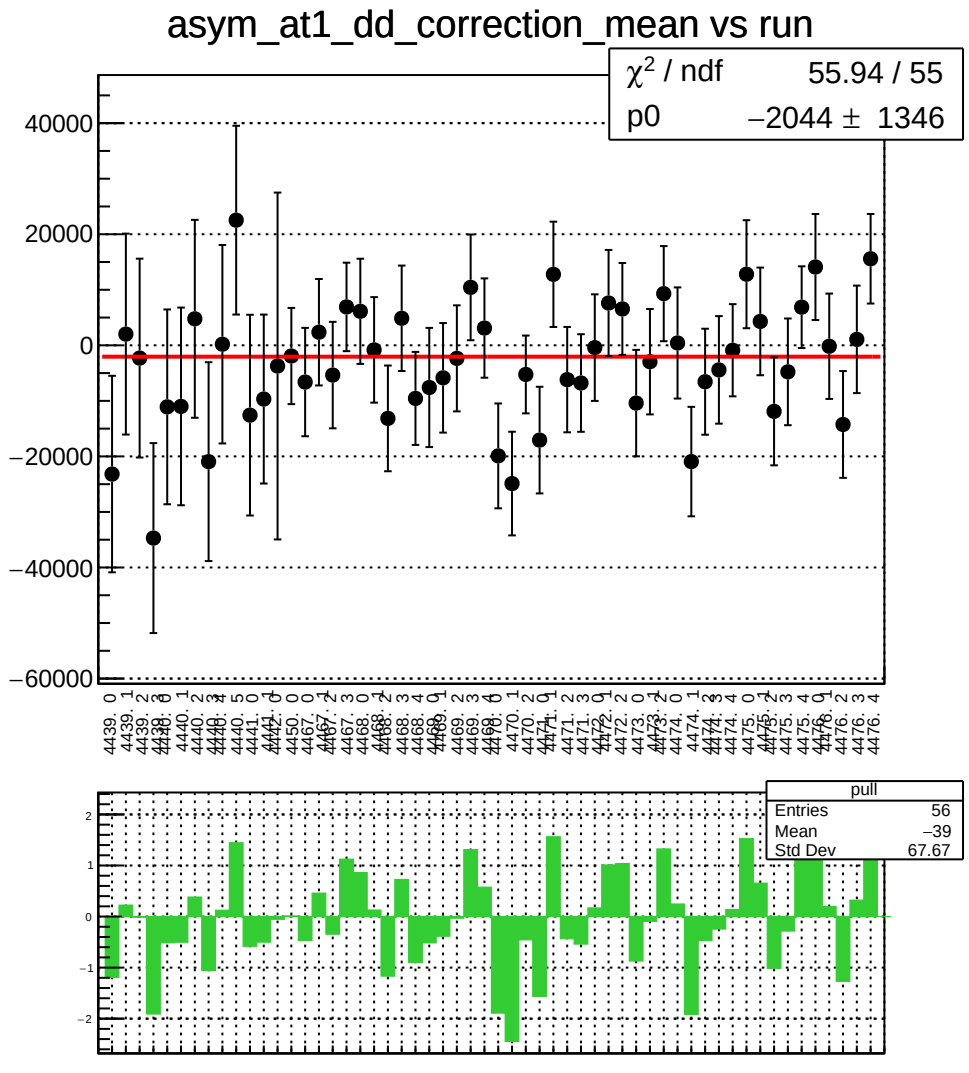

pull1D
Entries 56
Mean 0.04485
Std Dev 1.092

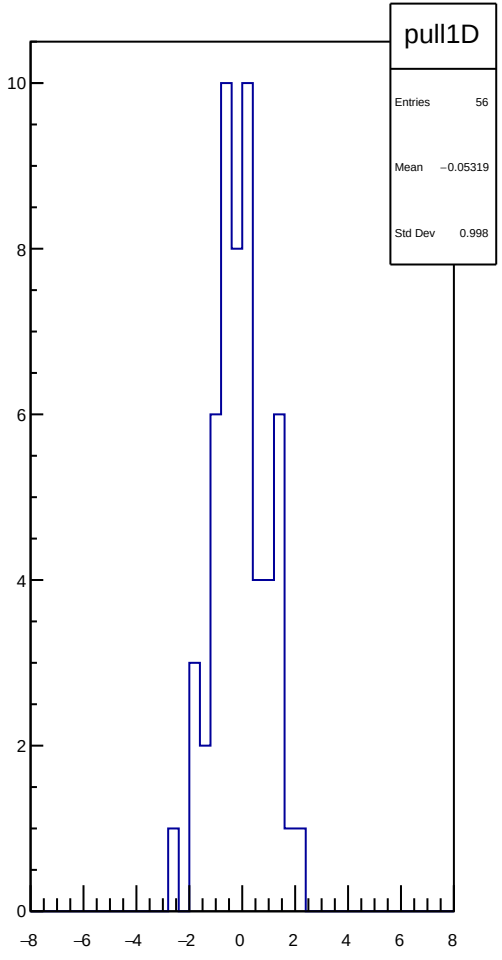

asym_at1_avg_rms vs run
χ² / ndf 4.306e+04 / 55
p0 1017 ± 0.9967
2000
1800
1600
1400
1200
1000
800
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

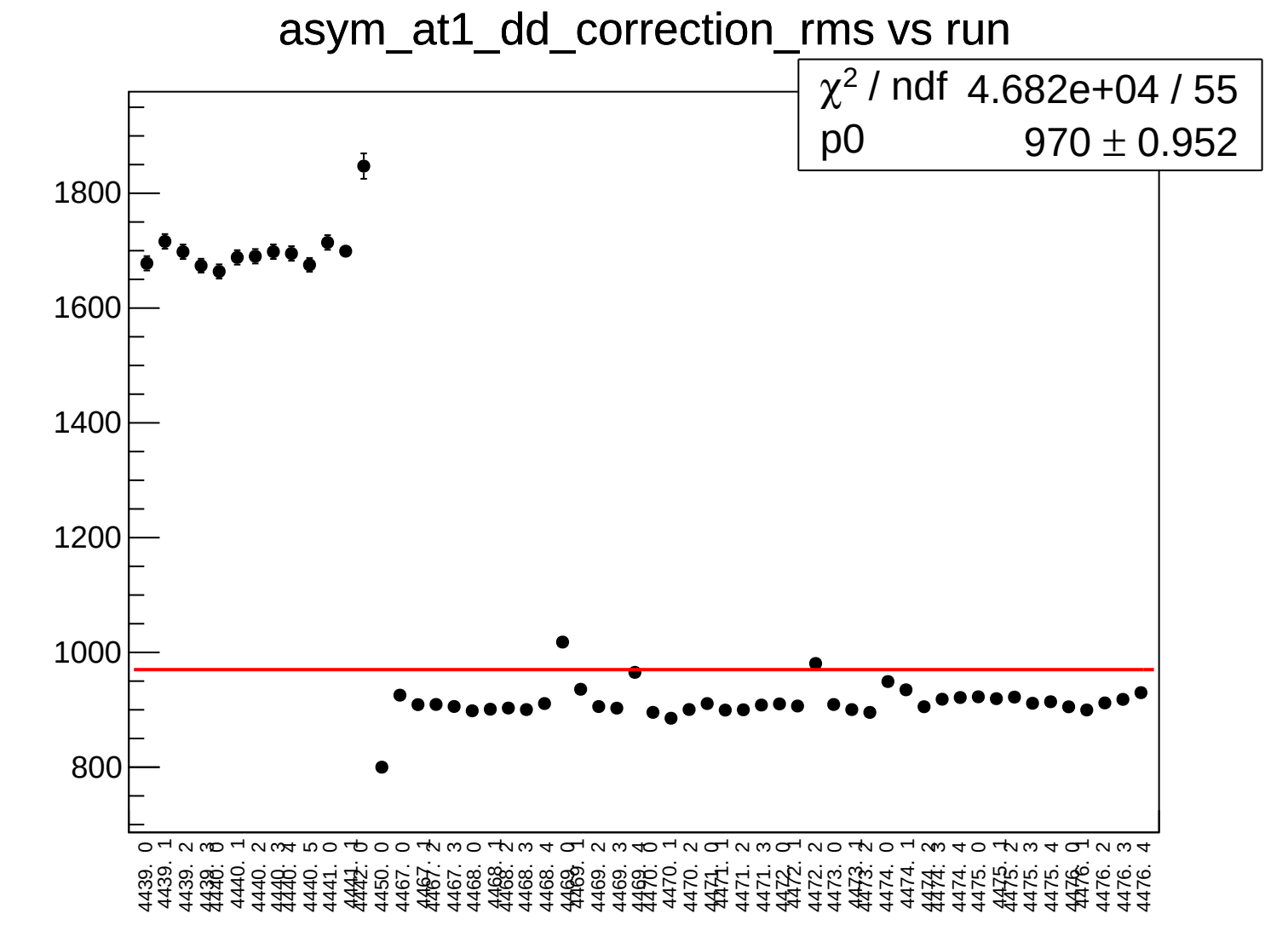

reg_asym_at1_dd_mean vs run
χ² / ndf 65.08 / 55
p0 −251.9 ± 464.2
10000
5000
0
−5000
−10000
pull
Entries 56
Mean 58.71
Std Dev 43.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

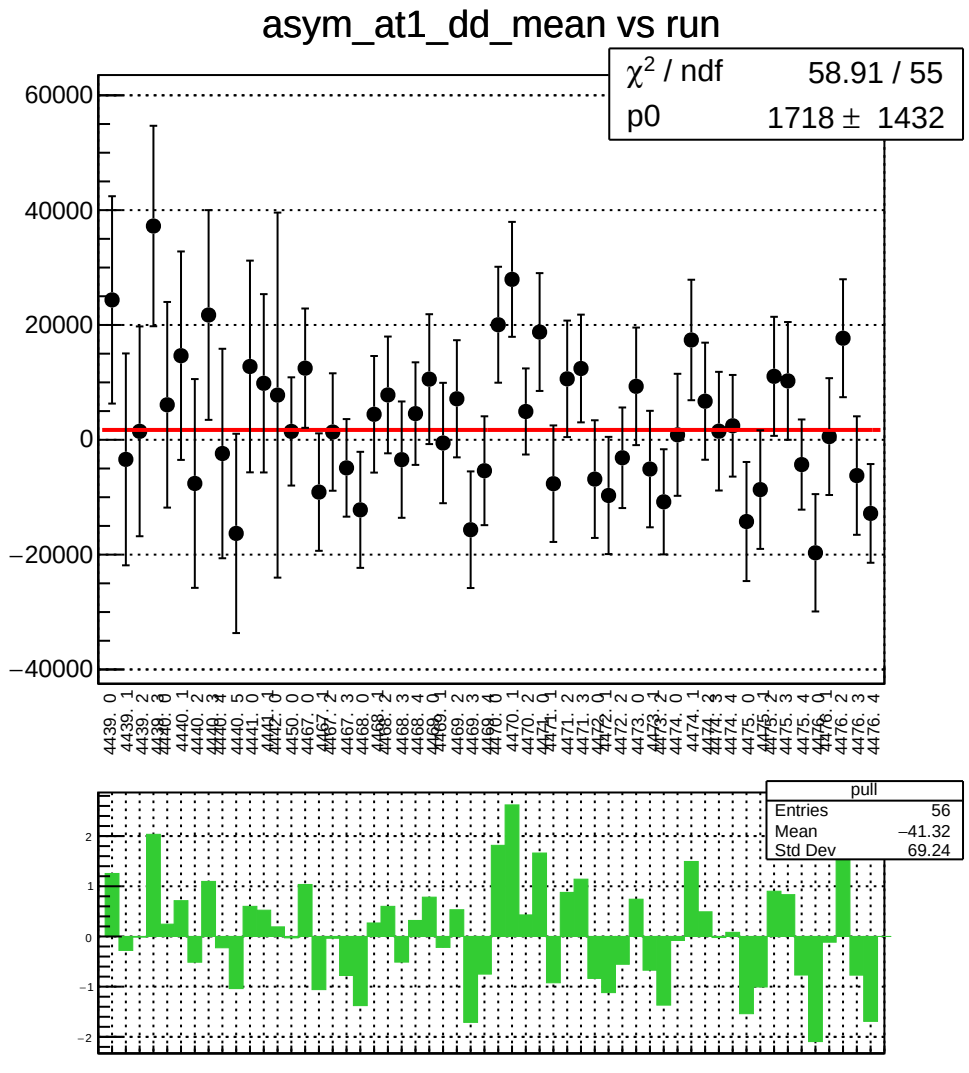

pull1D
Entries 56
Mean −0.0109
Std Dev 1.078
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

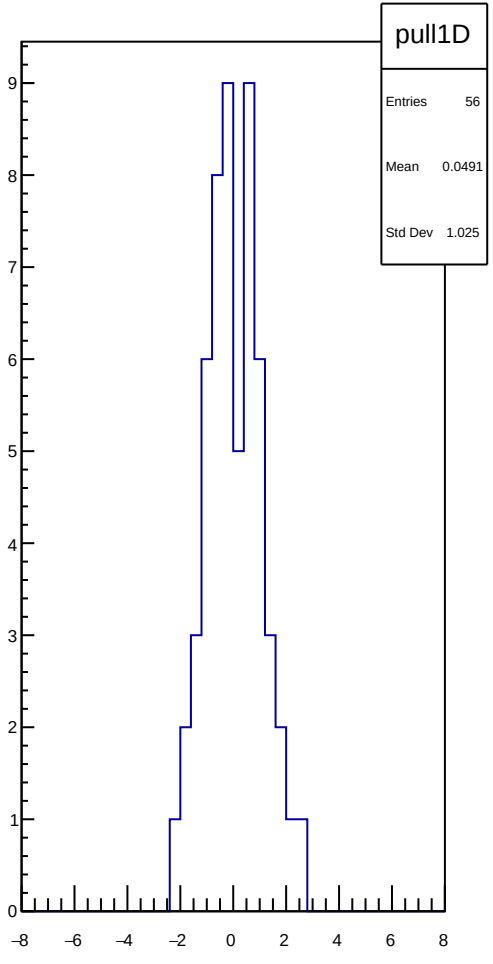

reg_asym_at1_dd_rms vs run
χ² / ndf 109.2 / 55
p0 341.9 ± 0.3282
355
350
345
340
335

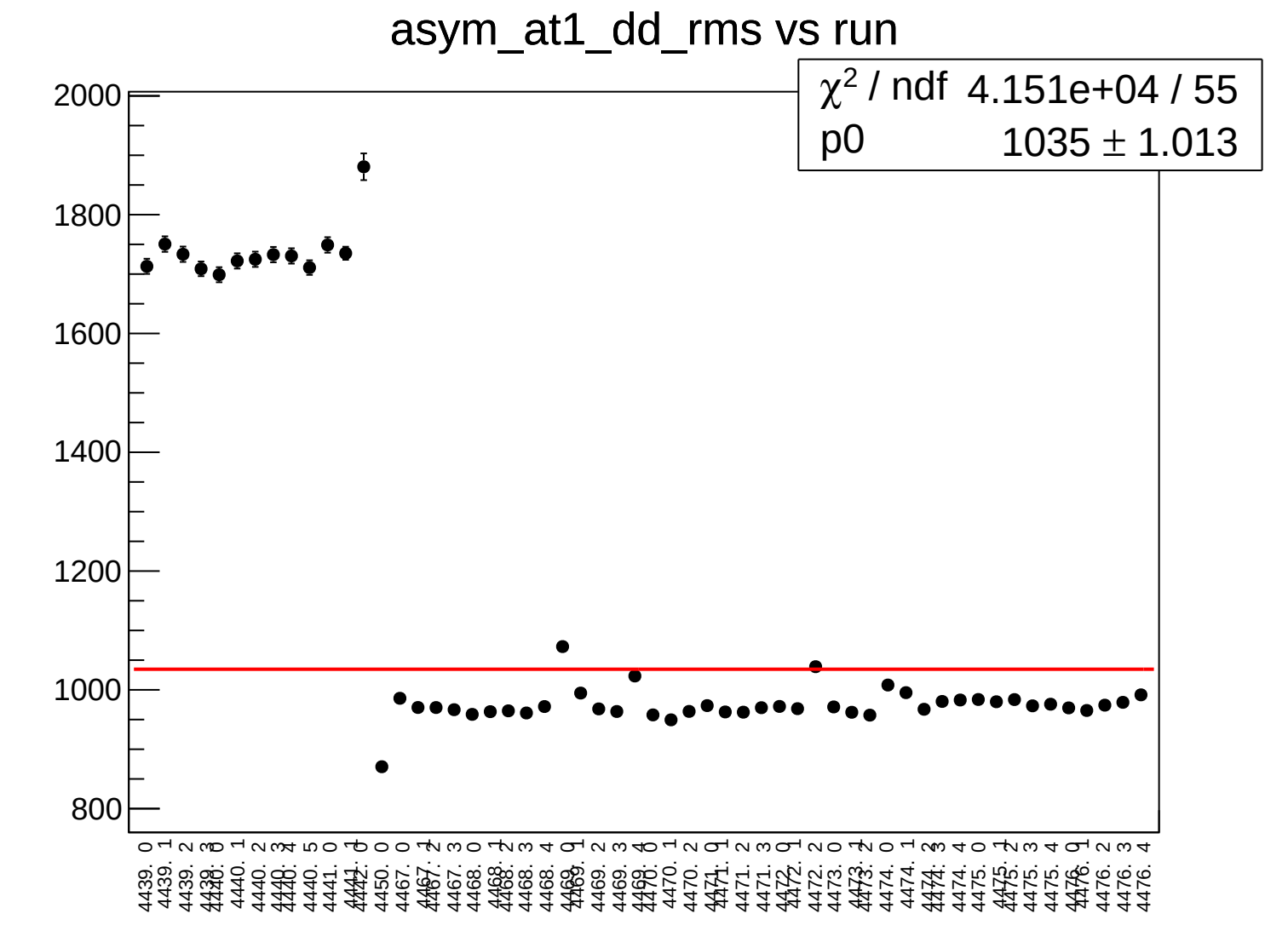

asym_at1_dd_correction_mean vs run
χ² / ndf 55.94 / 55
p0 −2044 ± 1346
40000
20000
0
−20000
−40000
−60000
pull
Entries 56
Mean −39
Std Dev 67.67
2
1
0
−1
−2


pull1D
Entries 56
Mean −0.05319
Std Dev 0.998
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_correction_rms vs run
χ² / ndf 4.682e+04 / 55
p0 970 ± 0.952
1800
1600
1400
1200
1000
800


asym_at1_dd_mean vs run
χ² / ndf 58.91 / 55
p0 1718 ± 1432
60000
40000
20000
0
−20000
−40000
pull
Entries 56
Mean −41.32
Std Dev 69.24
2
1
0
−1
−2


pull1D
Entries 56
Mean 0.0491
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_rms vs run
χ² / ndf 4.151e+04 / 55
p0 1035 ± 1.013
2000
1800
1600
1400
1200
1000
800
4439. 0
4439. 1
4439. 2
4439. 3
4439. 4
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
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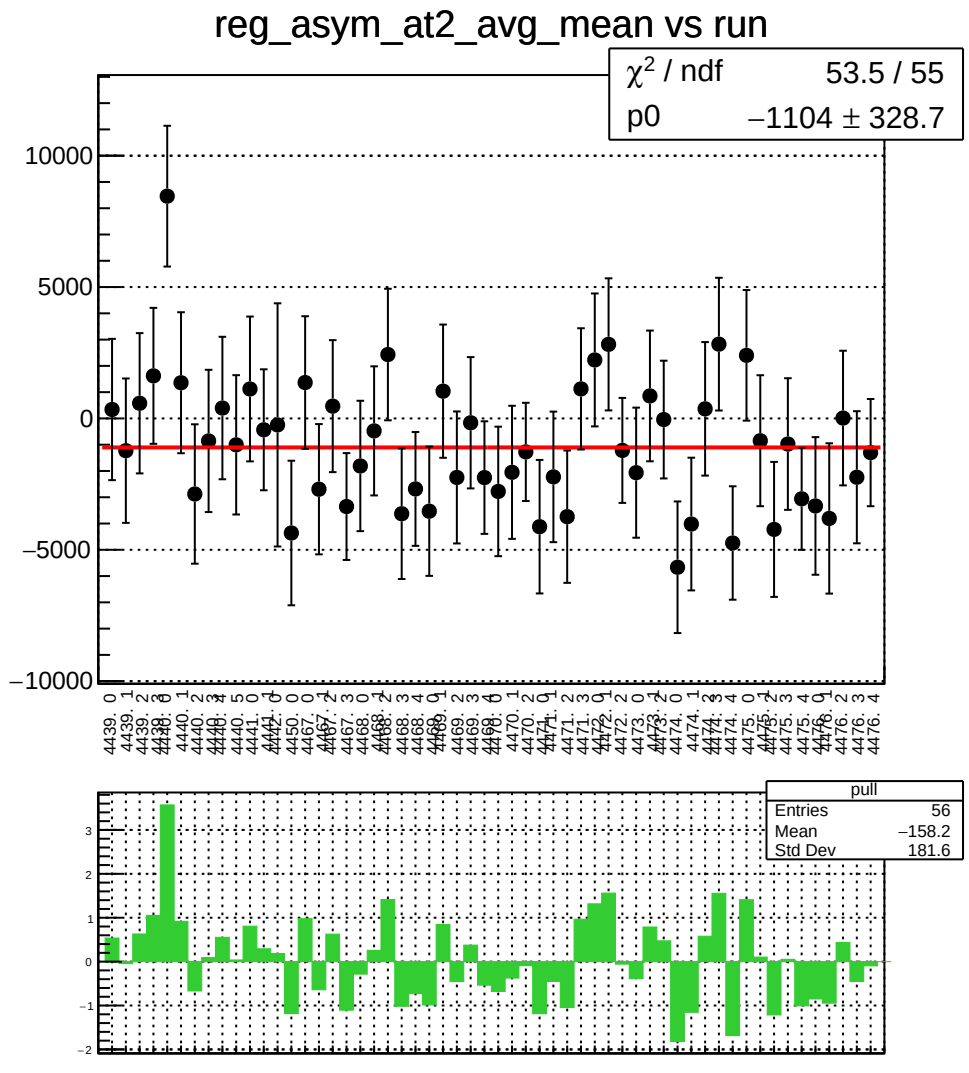
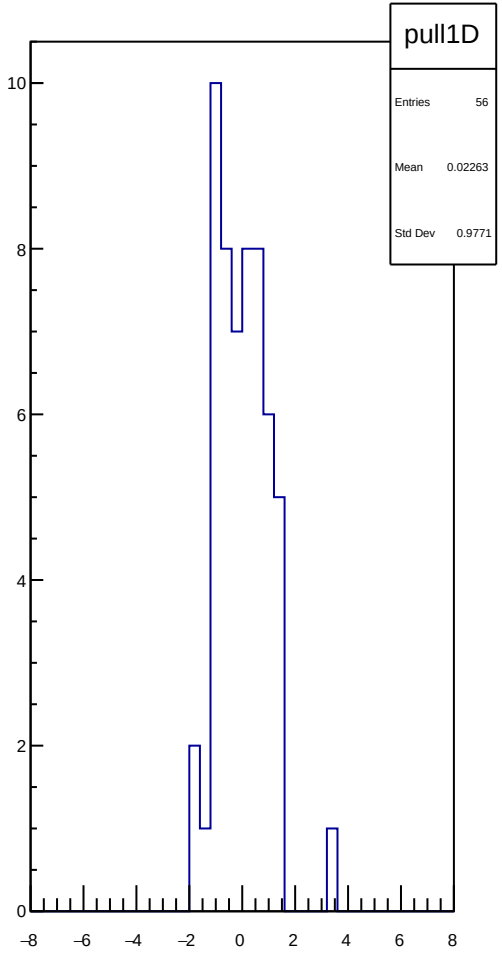
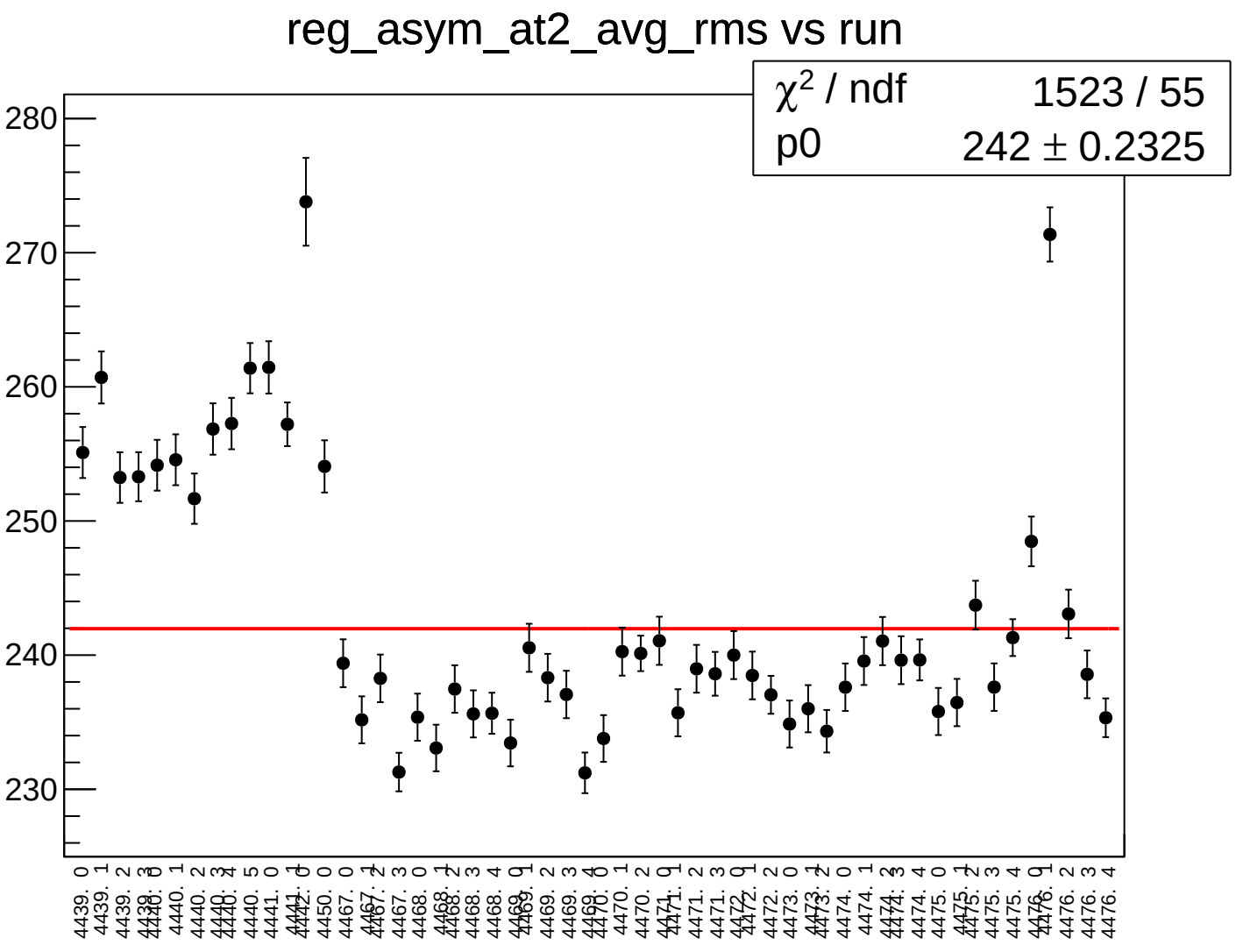
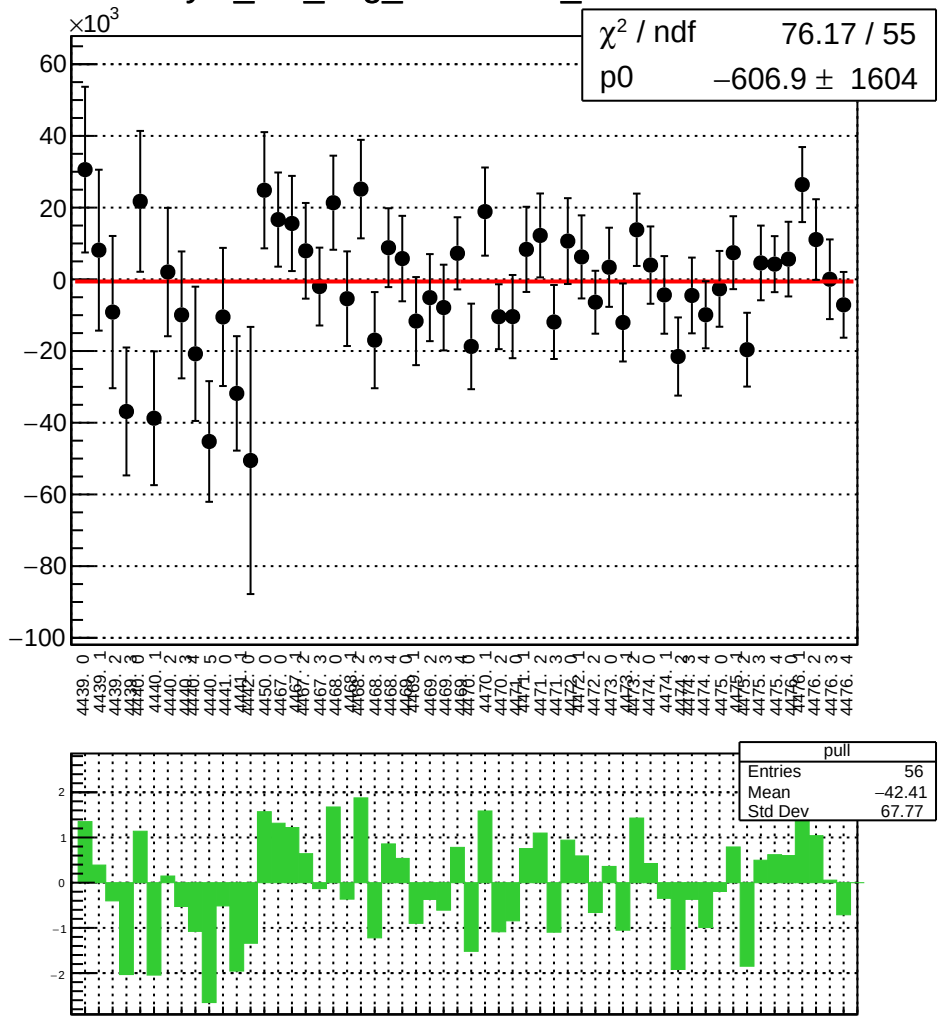
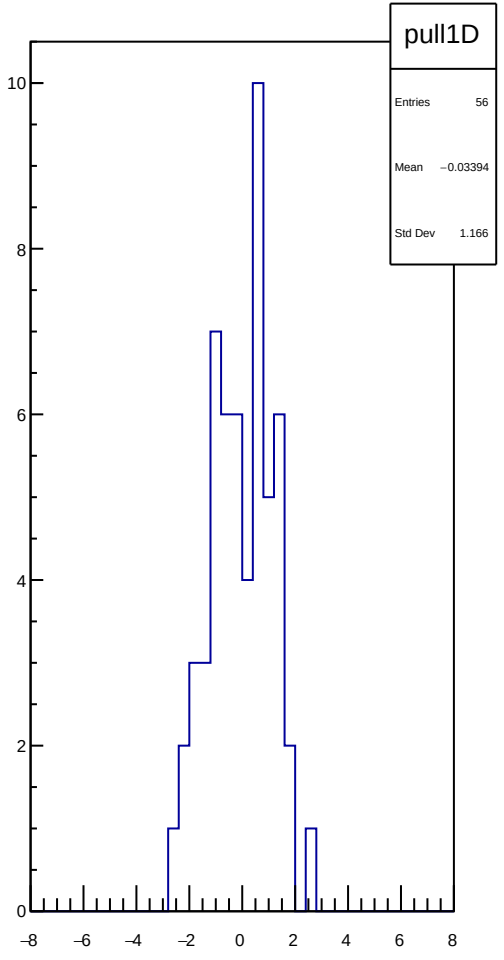
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

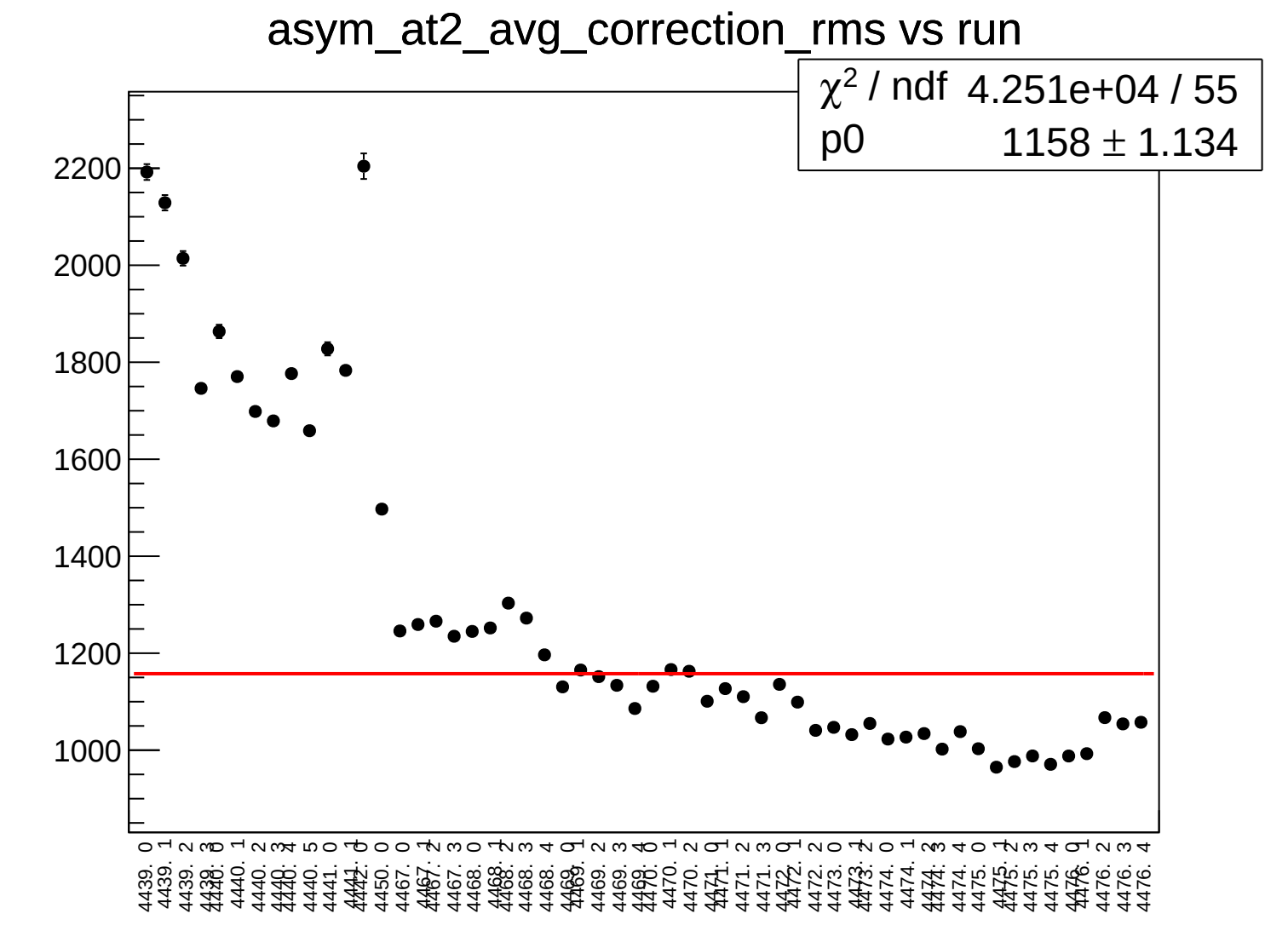

reg_asym_at2_avg_mean vs run
χ² / ndf 53.5 / 55
p0 −1104 ± 328.7
pull
Entries 56
Mean −158.2
Std Dev 181.6


pull1D
Entries 56
Mean 0.02263
Std Dev 0.9771


reg_asym_at2_avg_rms vs run
χ² / ndf 1523 / 55
p0 242 ± 0.2325
280
270
260
250
240
230


asym_at2_avg_correction_mean vs run
χ² / ndf 76.17 / 55
p0 −606.9 ± 1604
pull
Entries 56
Mean −42.41
Std Dev 67.77


pull1D
Entries 56
Mean −0.03394
Std Dev 1.166


asym_at2_avg_correction_rms vs run
χ² / ndf 4.251e+04 / 55
p0 1158 ± 1.134
2200
2000
1800
1600
1400
1200
1000
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
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4472. 2
4473. 0
4473. 1
4473. 2
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4474. 1
4474. 2
4474. 3
4474. 4
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4475. 3
4475. 4
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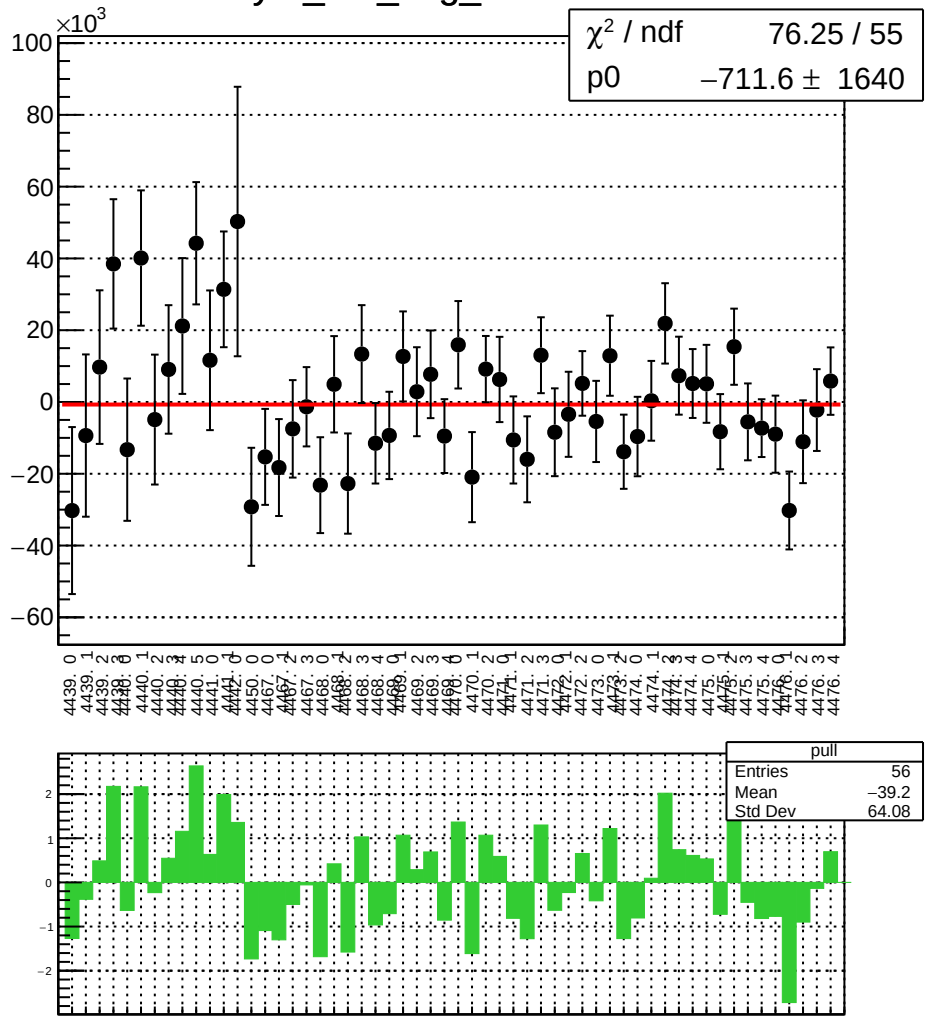
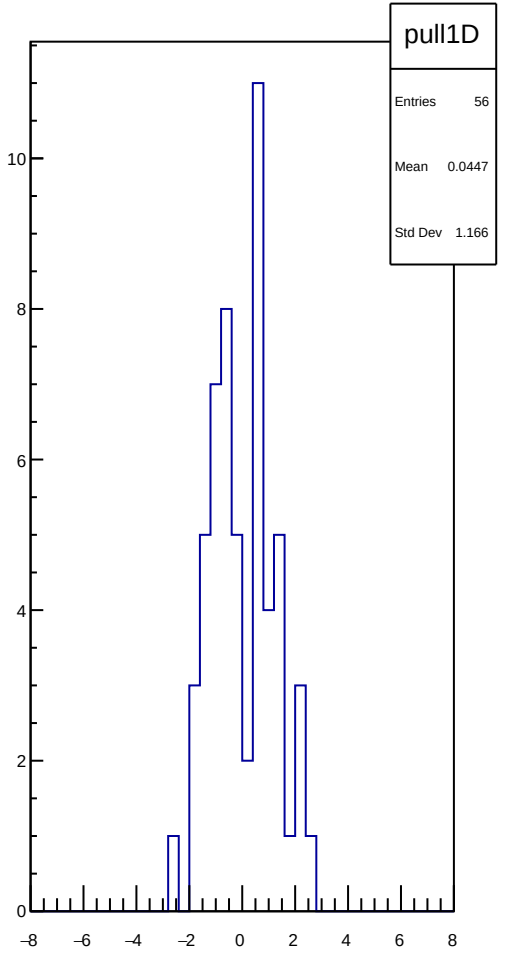
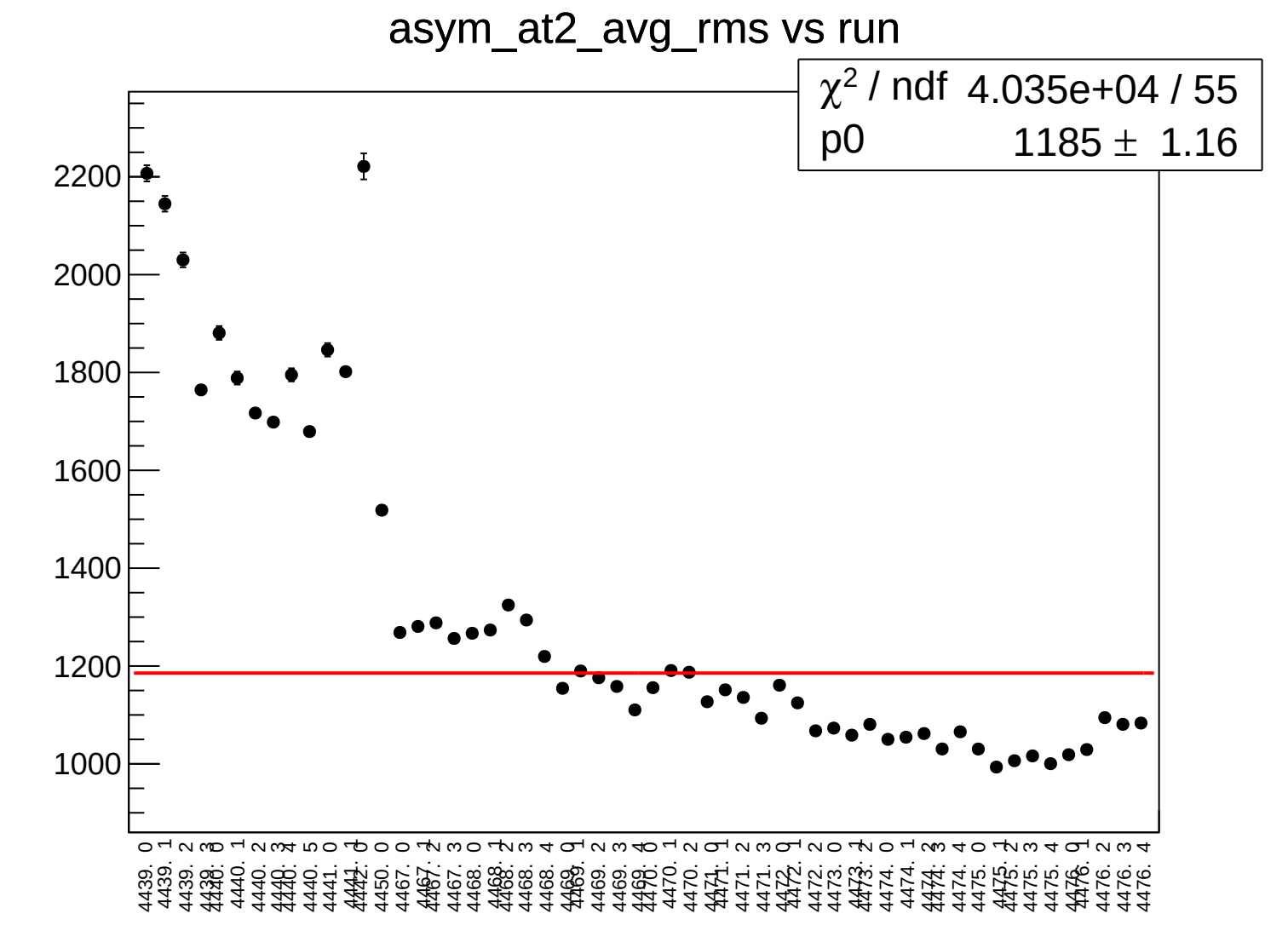
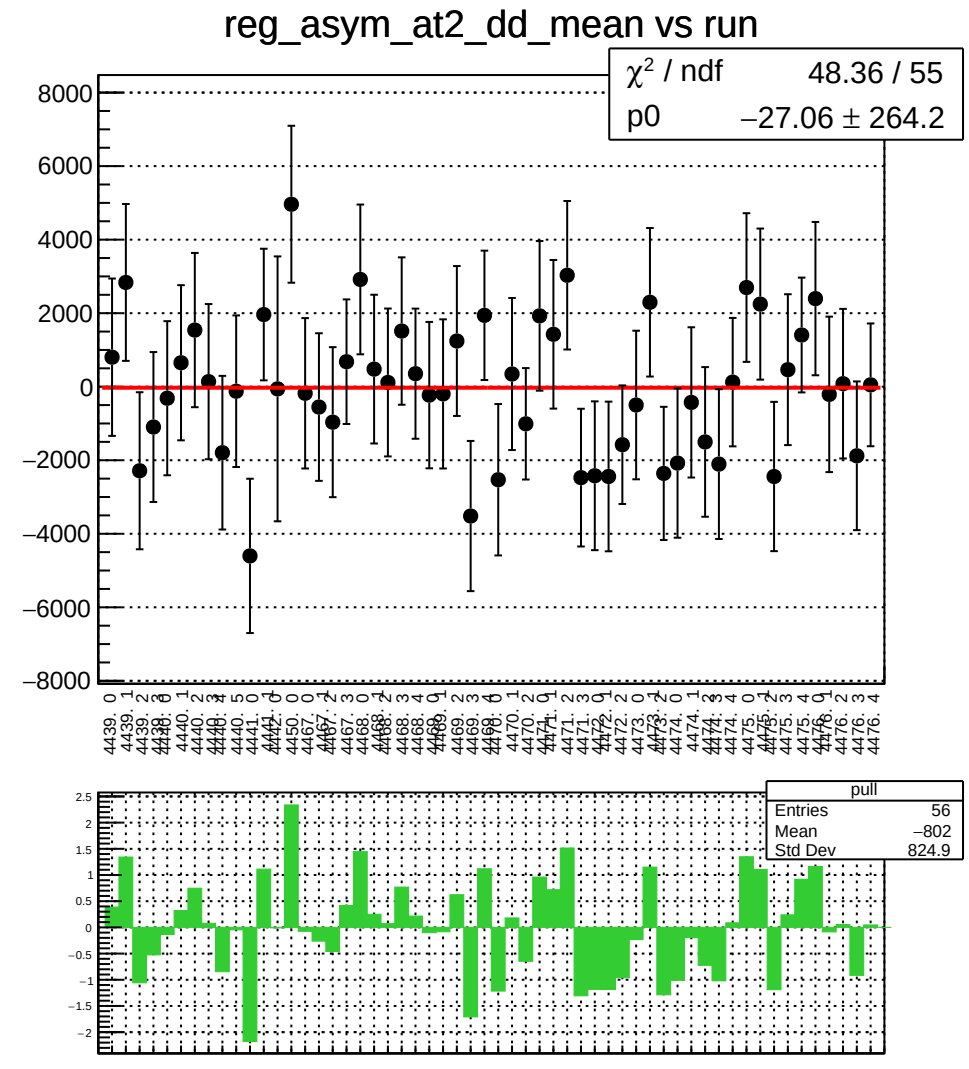
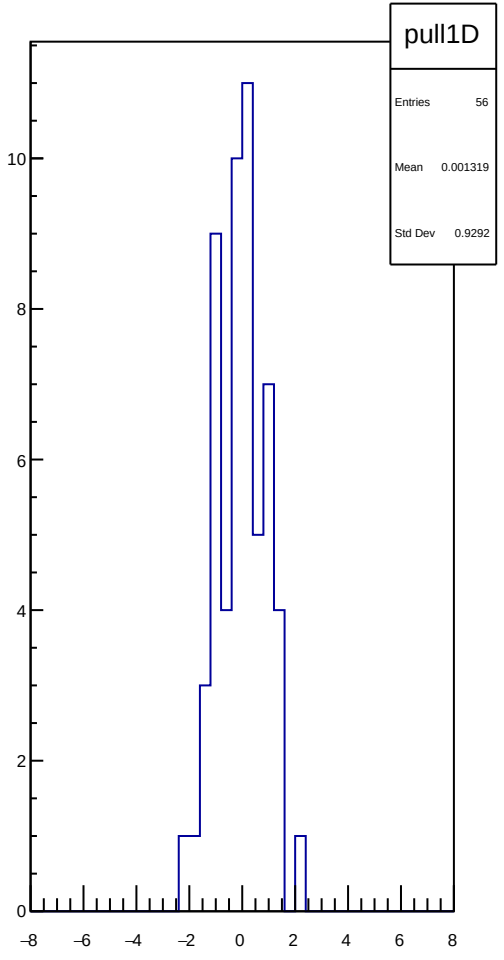
4476. 2
4476. 3
4476. 4

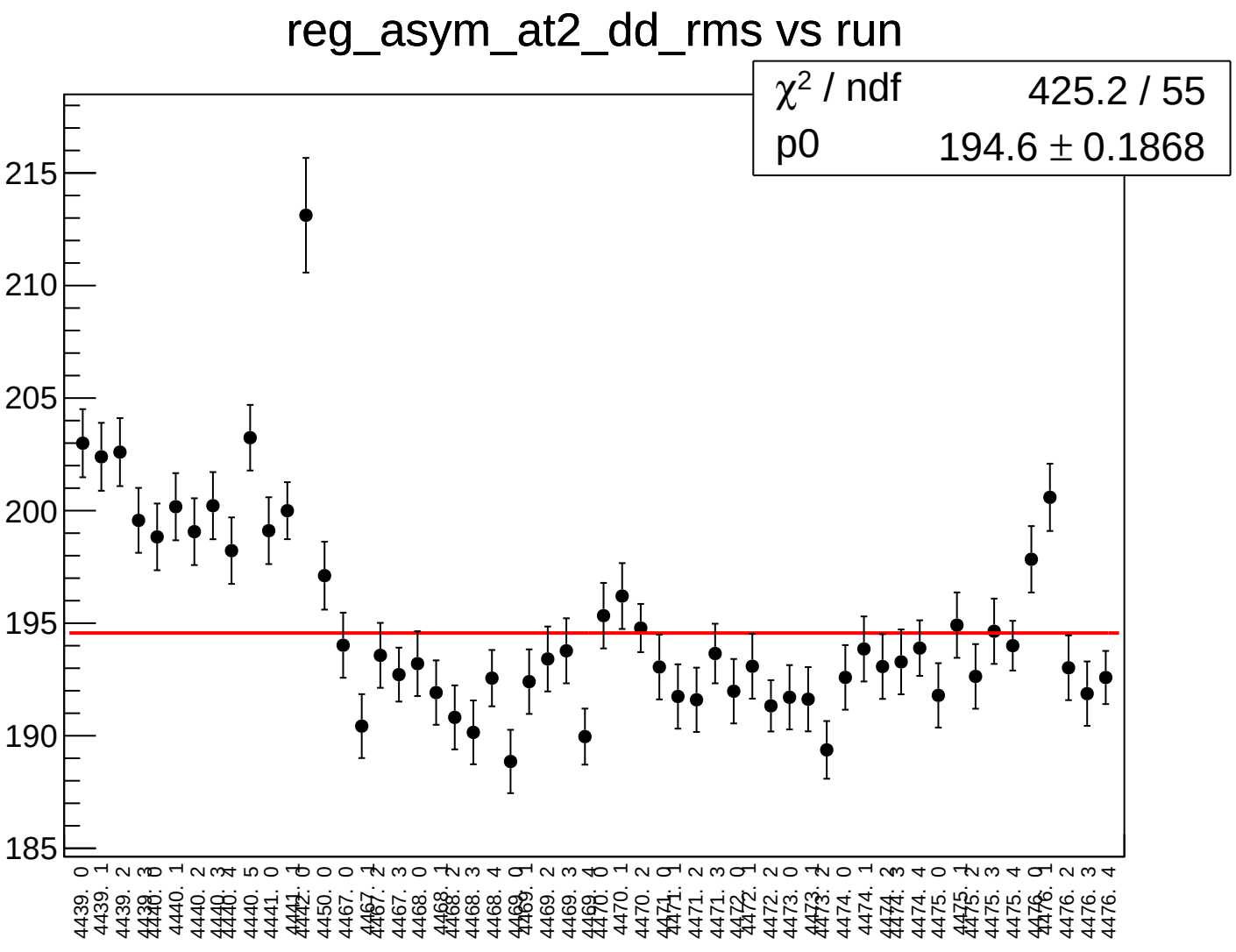

asym_at2_avg_mean vs run
×10^3
χ² / ndf 76.25 / 55
p0 −711.6 ± 1640
pull
Entries 56
Mean −39.2
Std Dev 64.08

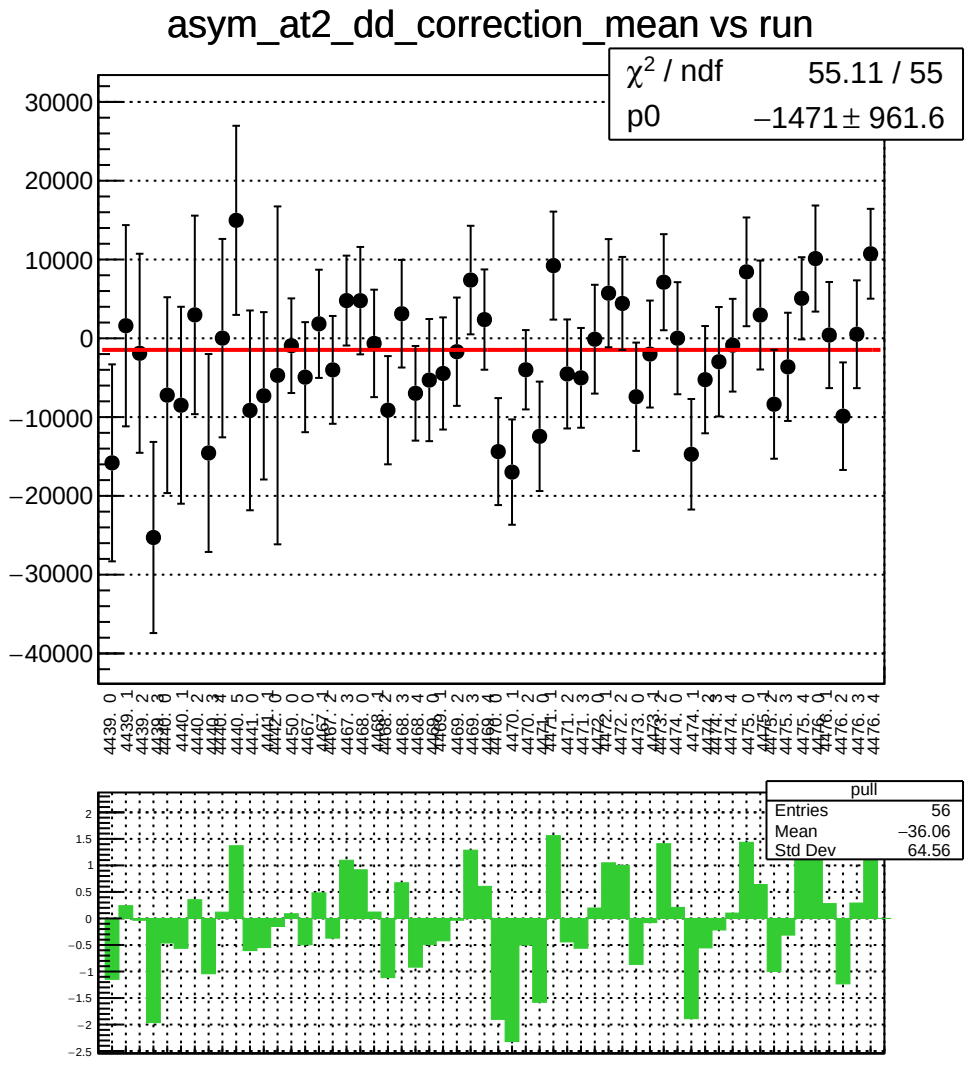

pull1D
Entries 56
Mean 0.0447
Std Dev 1.166

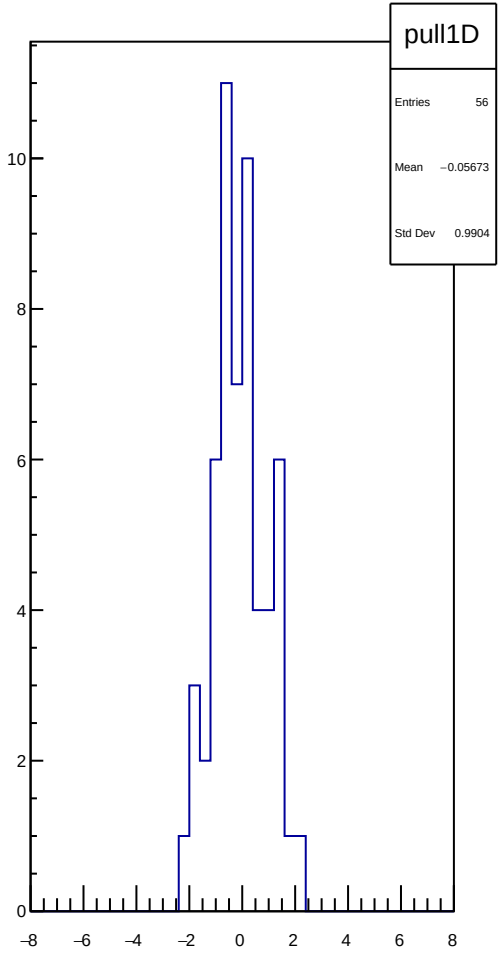

asym_at2_avg_rms vs run
χ² / ndf 4.035e+04 / 55
p0 1185 ± 1.16
2200
2000
1800
1600
1400
1200
1000

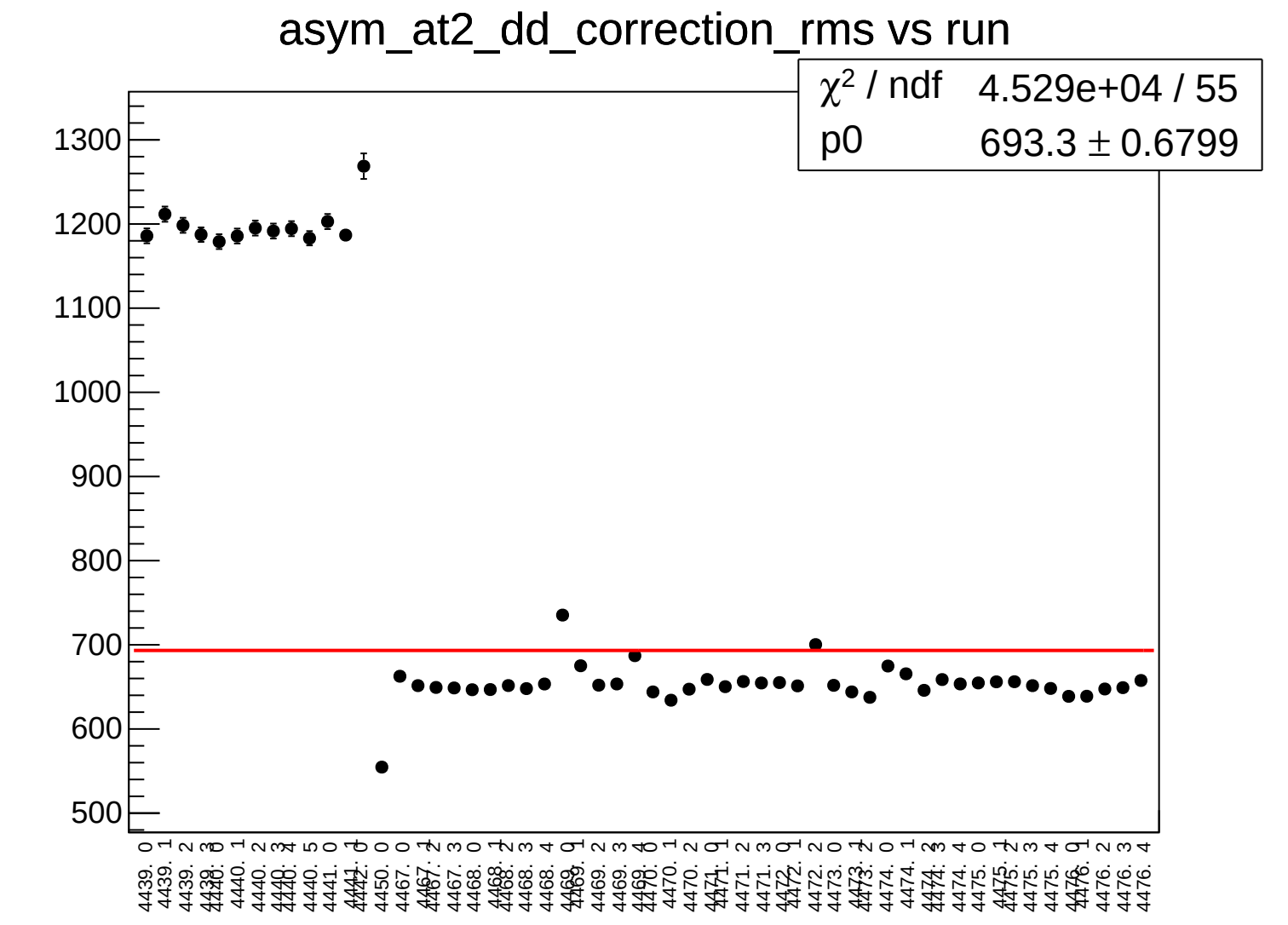

reg_asym_at2_dd_mean vs run
χ² / ndf 48.36 / 55
p0 −27.06 ± 264.2
pull
Entries 56
Mean −802
Std Dev 824.9

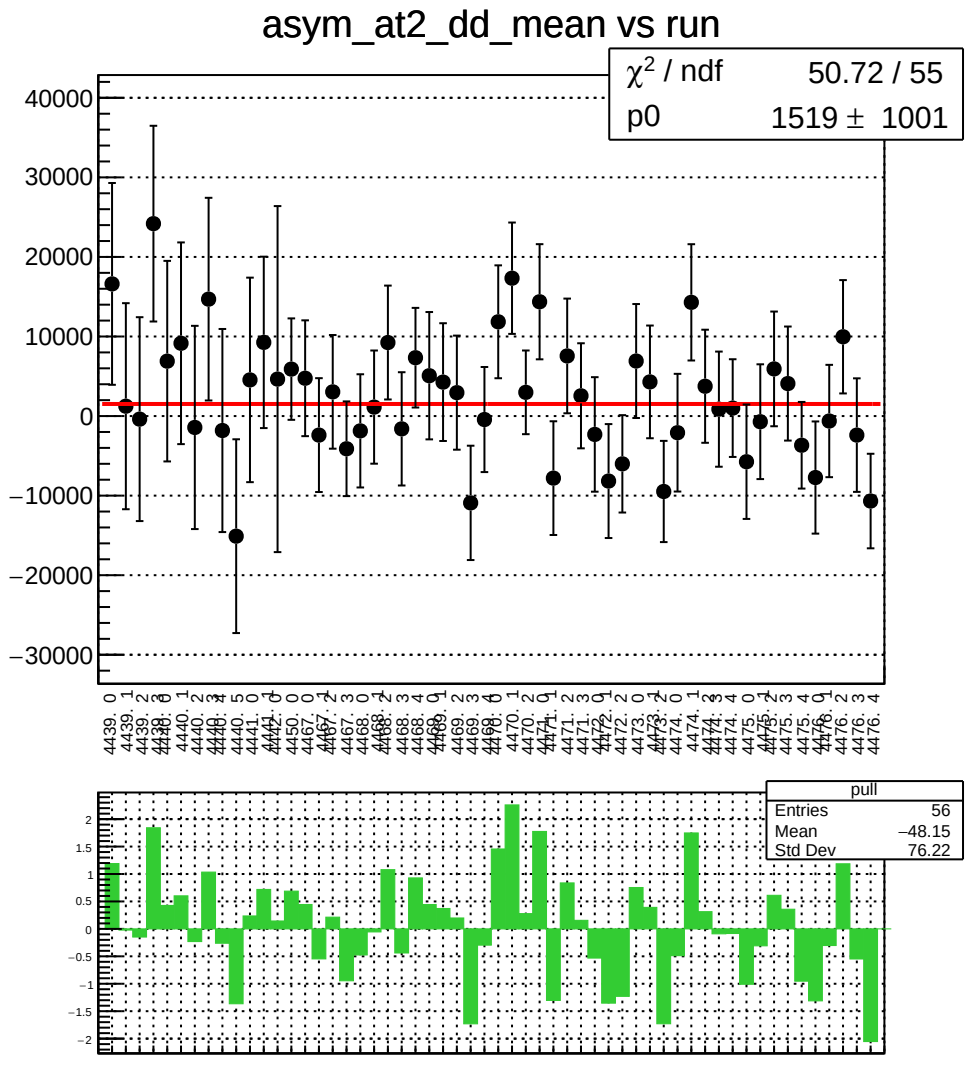

pull1D
Entries 56
Mean 0.001319
Std Dev 0.9292

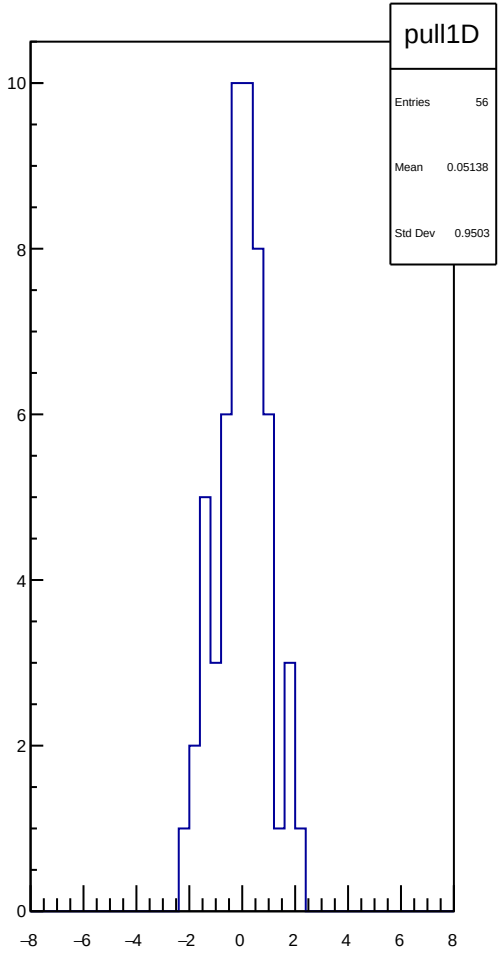

reg_asym_at2_dd_rms vs run
χ² / ndf 425.2 / 55
p0 194.6 ± 0.1868
215
210
205
200
195
190
185

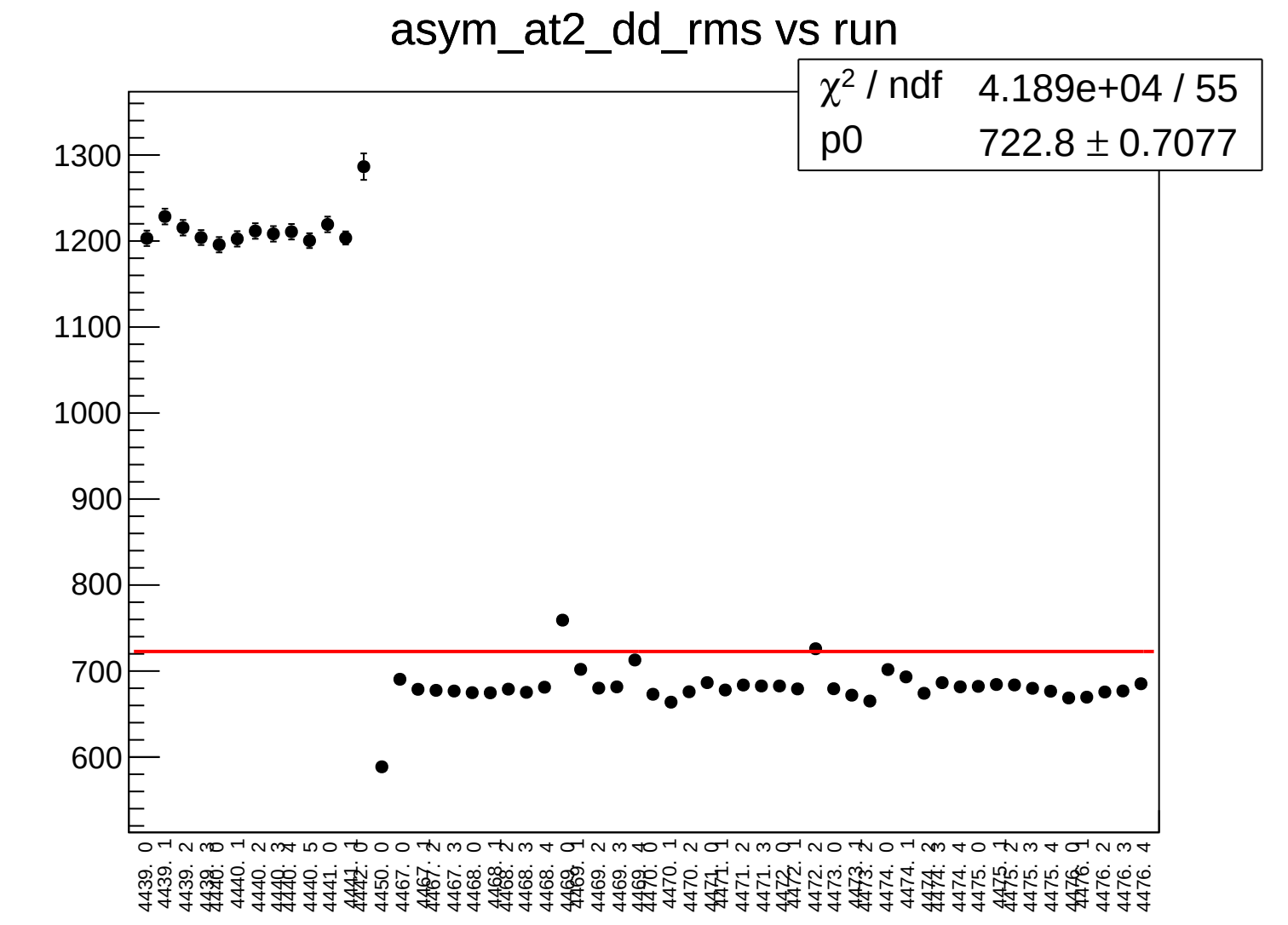

asym_at2_dd_correction_mean vs run
χ² / ndf 55.11 / 55
p0 −1471 ± 961.6
pull
Entries 56
Mean −36.06
Std Dev 64.56

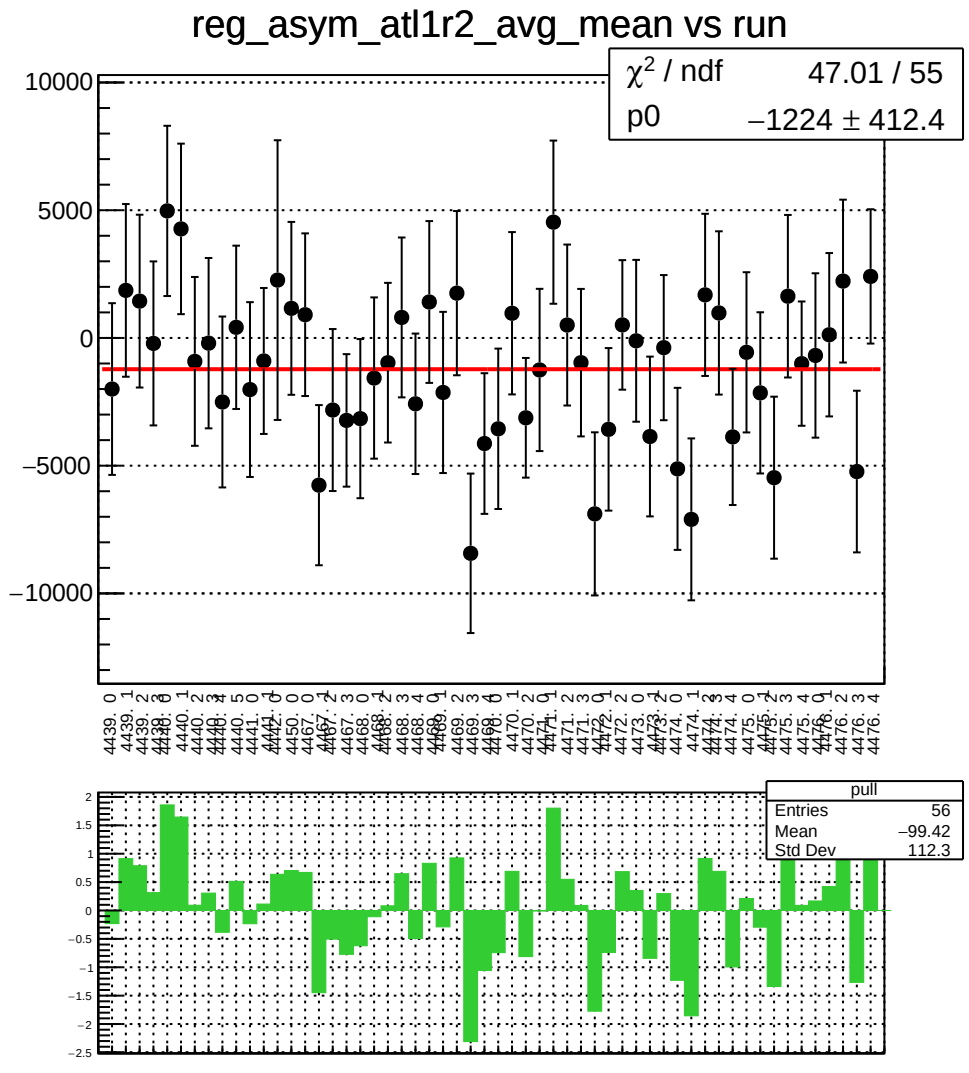

pull1D
Entries 56
Mean −0.05673
Std Dev 0.9904

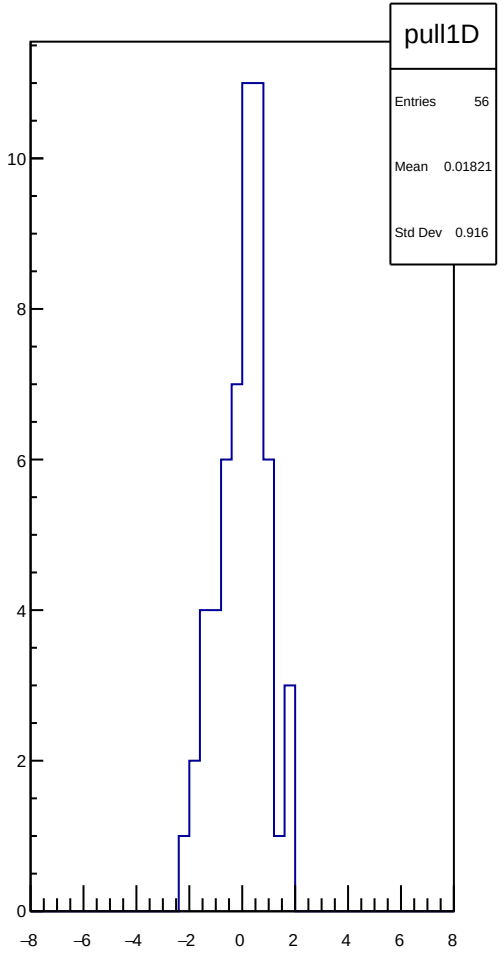

asym_at2_dd_correction_rms vs run
χ² / ndf 4.529e+04 / 55
p0 693.3 ± 0.6799
1300
1200
1100
1000
900
800
700
600
500

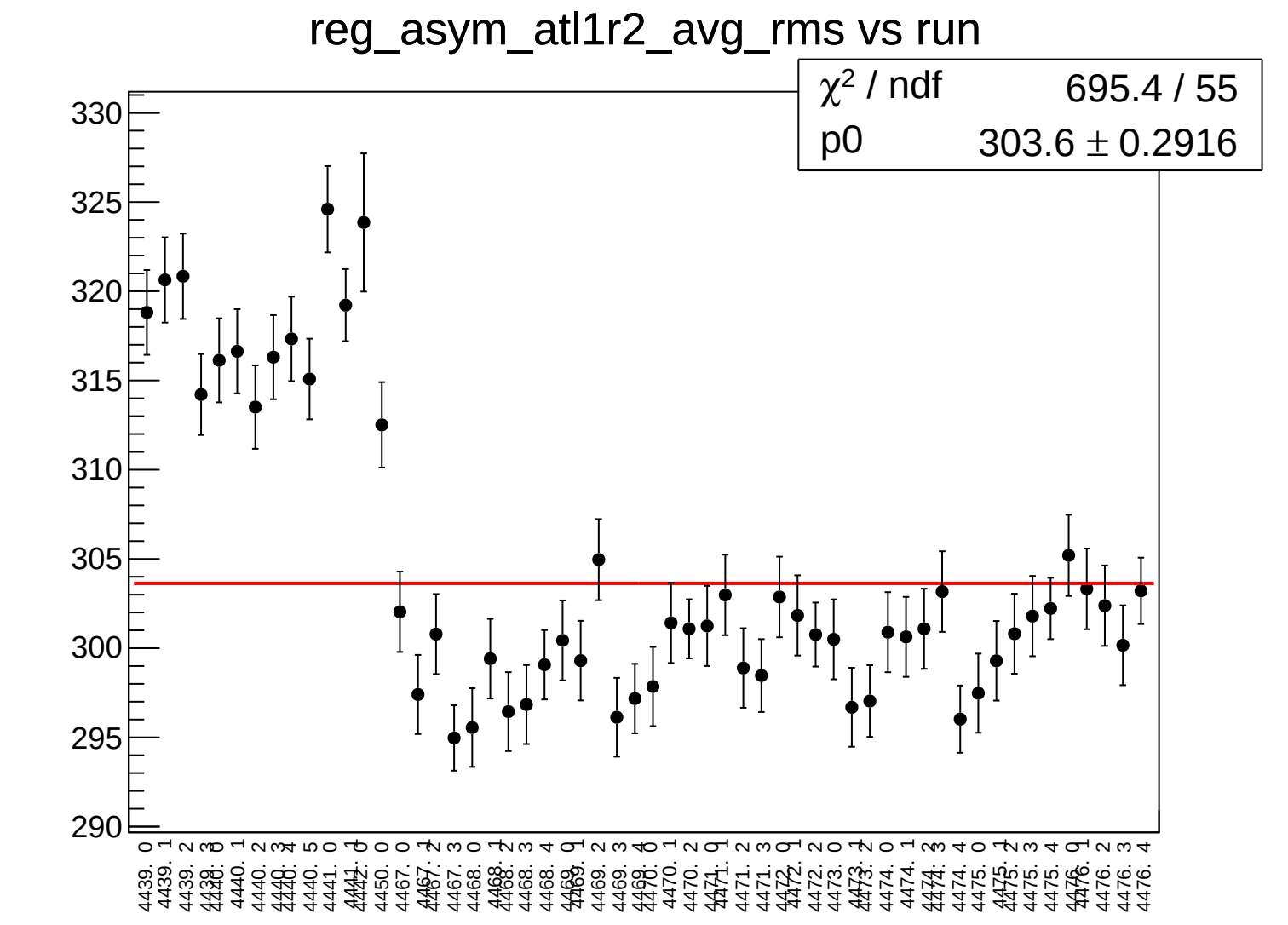

asym_at2_dd_mean vs run
χ² / ndf 50.72 / 55
p0 1519 ± 1001
pull
Entries 56
Mean −48.15
Std Dev 76.22

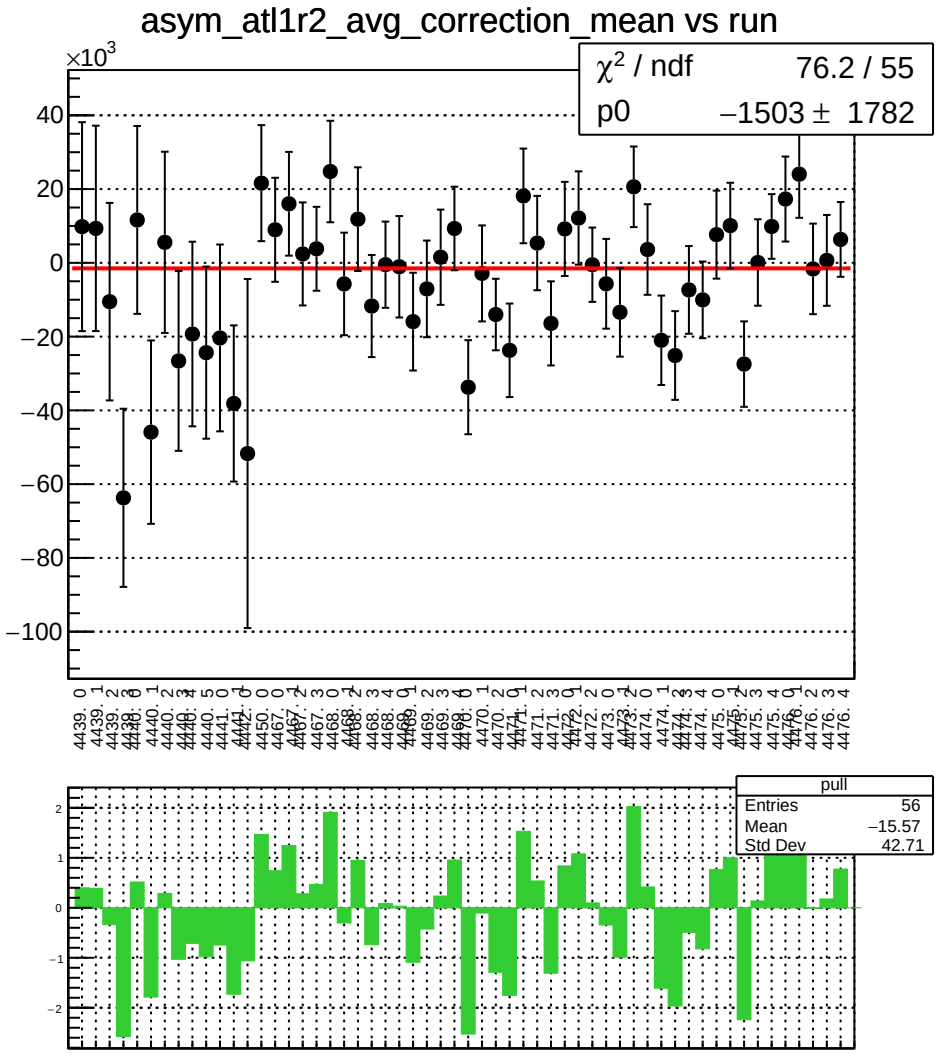

pull1D
Entries 56
Mean 0.05138
Std Dev 0.9503

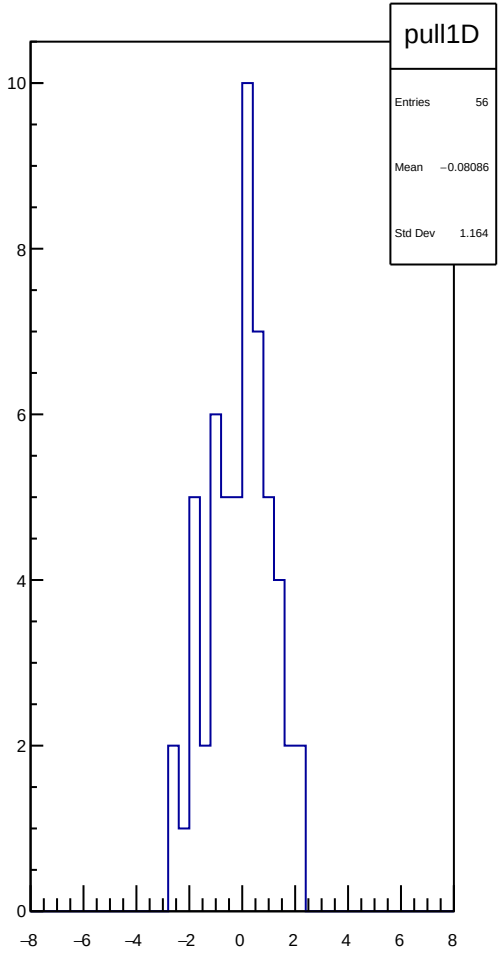

asym_at2_dd_rms vs run
χ² / ndf 4.189e+04 / 55
p0 722.8 ± 0.7077
1300
1200
1100
1000
900
800
700
600

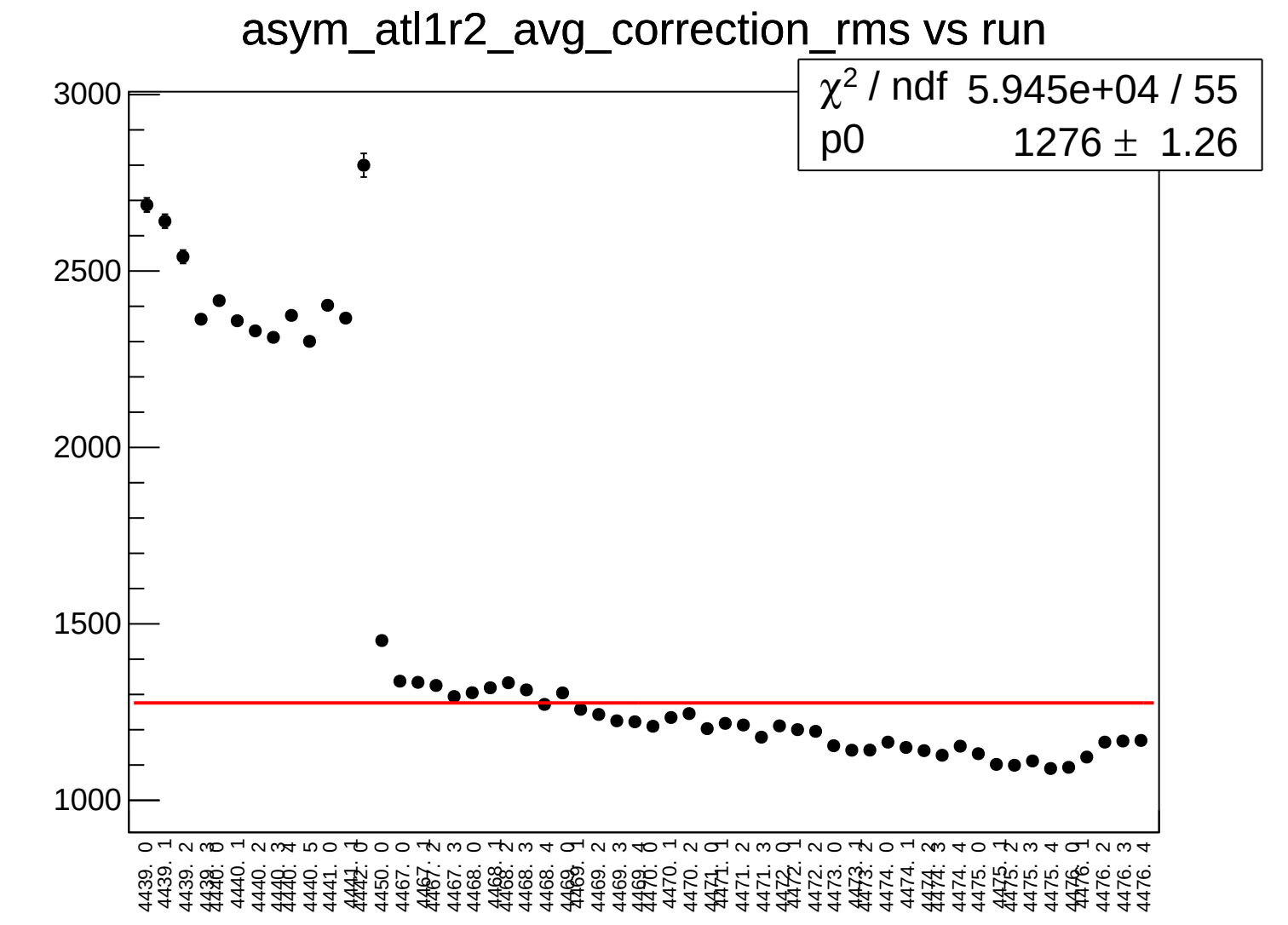

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 47.01 / 55
p0 −1224 ± 412.4
10000
5000
0
−5000
−10000
pull
Entries 56
Mean −99.42
Std Dev 112.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

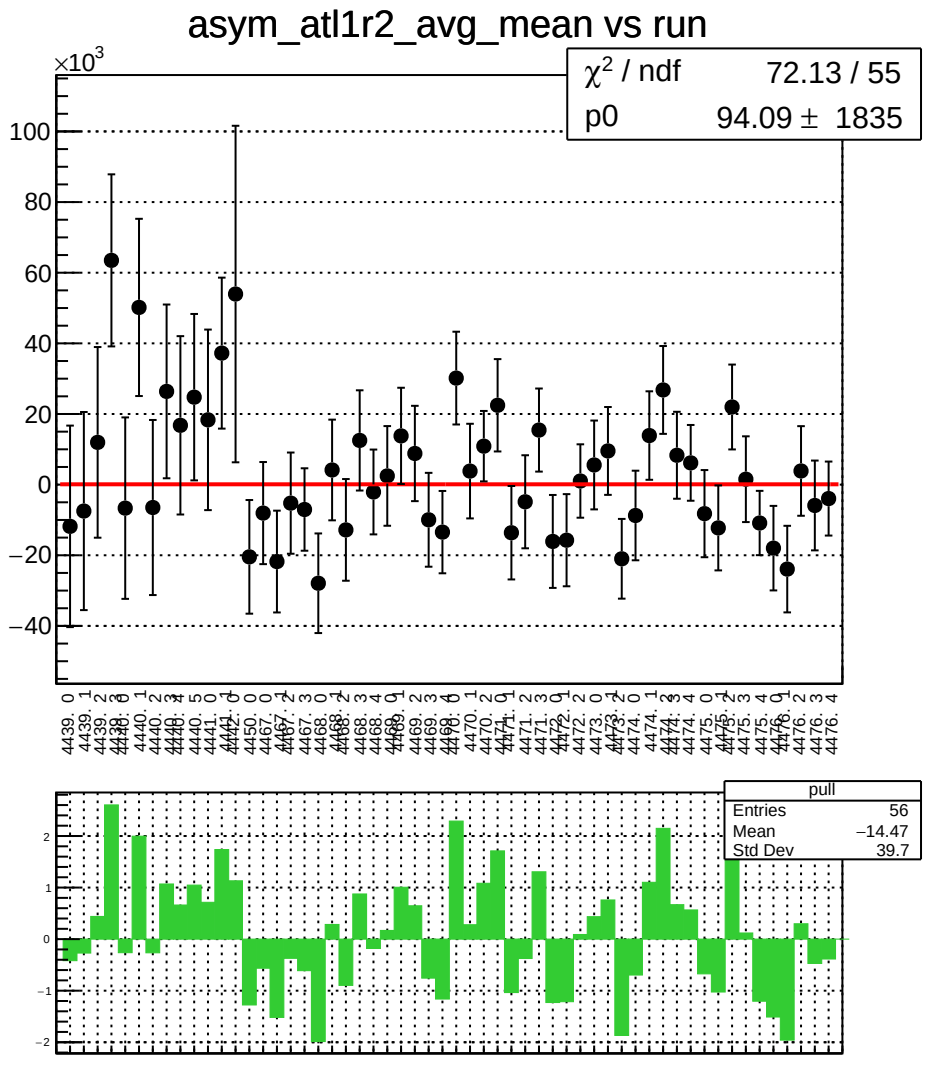

pull1D
Entries 56
Mean 0.01821
Std Dev 0.916
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

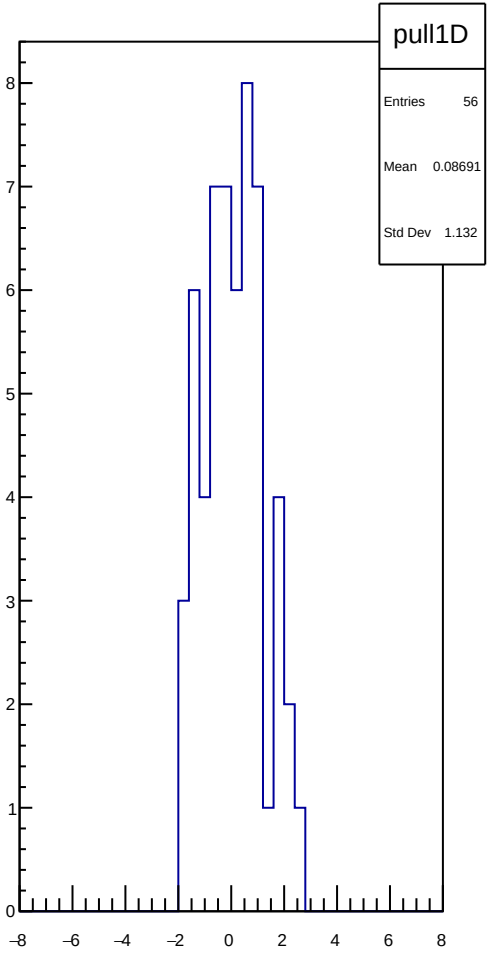

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 695.4 / 55
p0 303.6 ± 0.2916
330
325
320
315
310
305
300
295
290

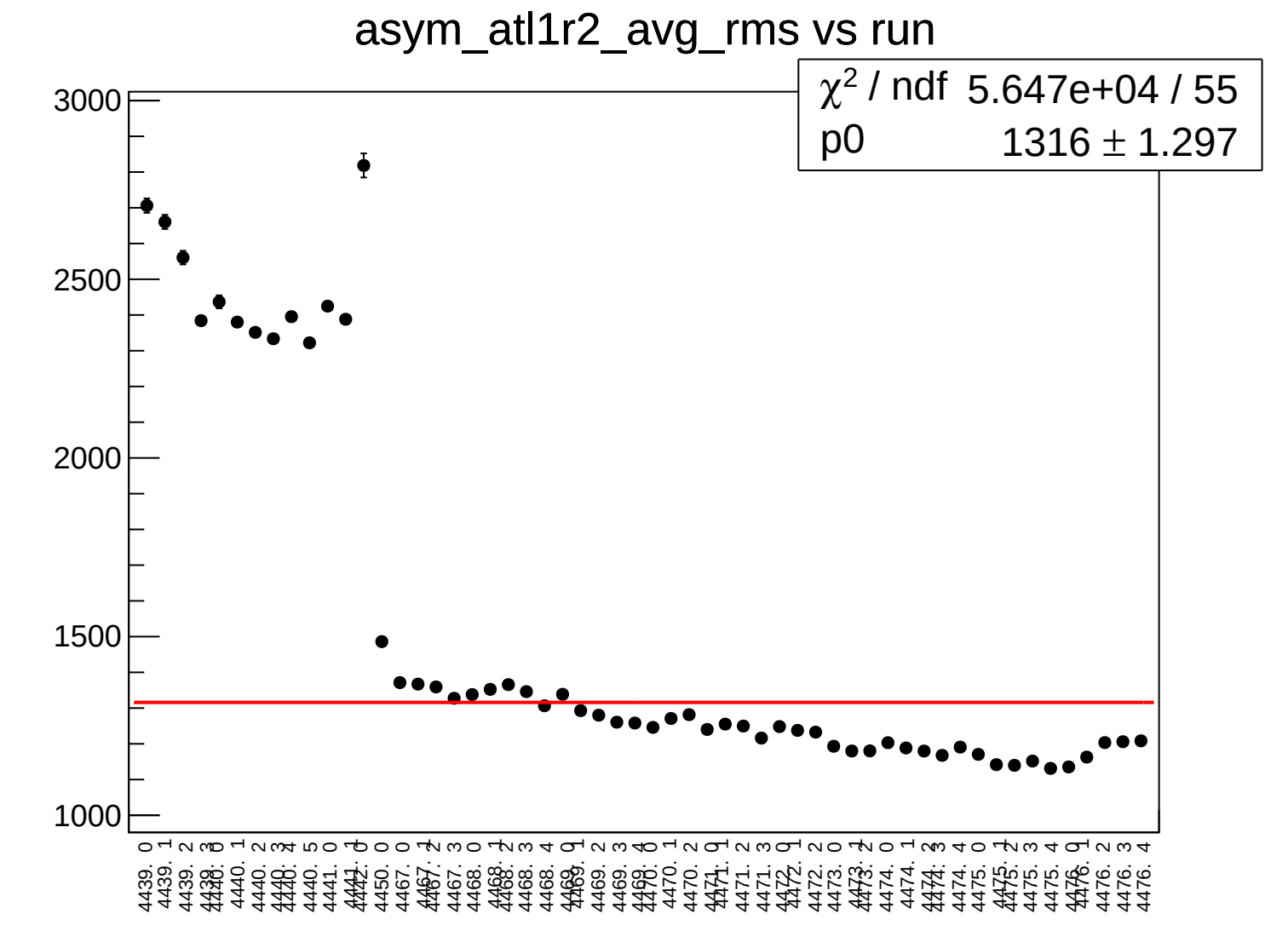

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 76.2 / 55
p0 −1503 ± 1782
pull
Entries 56
Mean −15.57
Std Dev 42.71

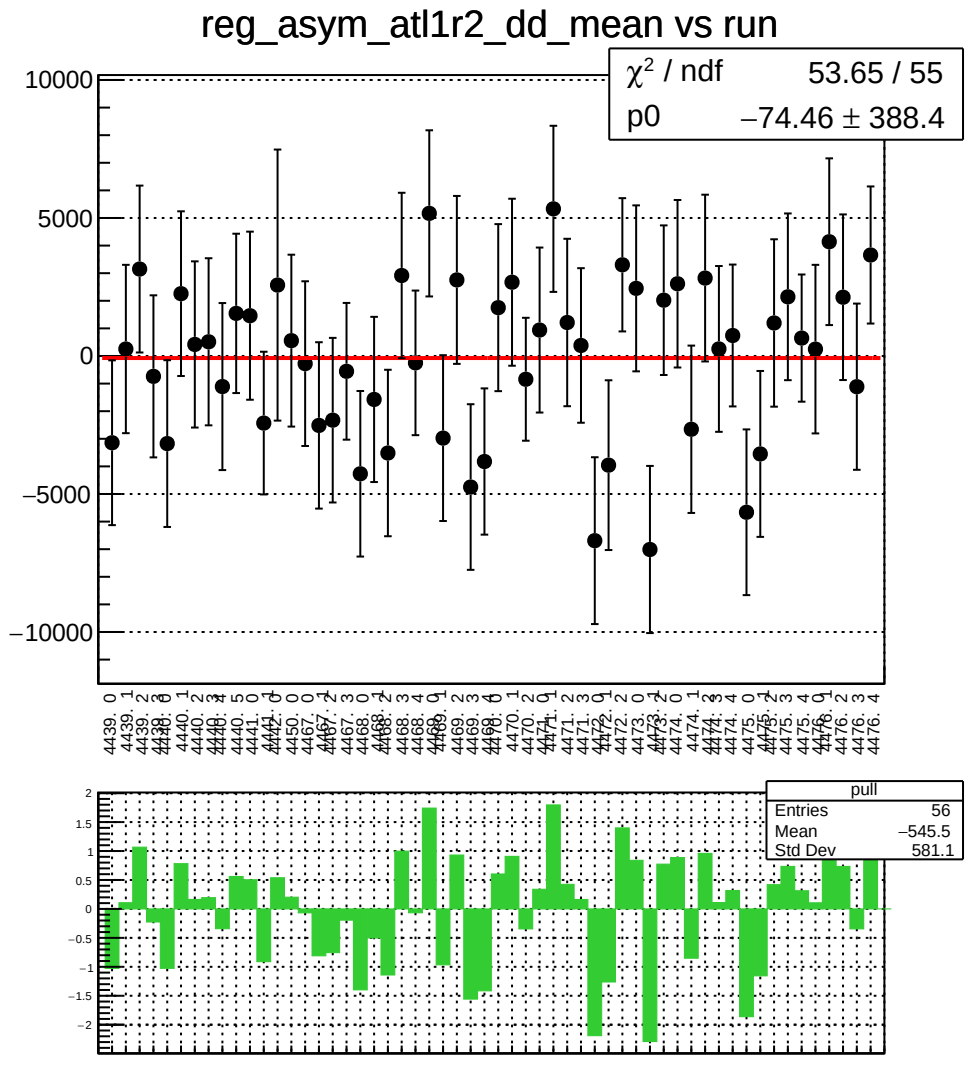

pull1D
Entries 56
Mean −0.08086
Std Dev 1.164

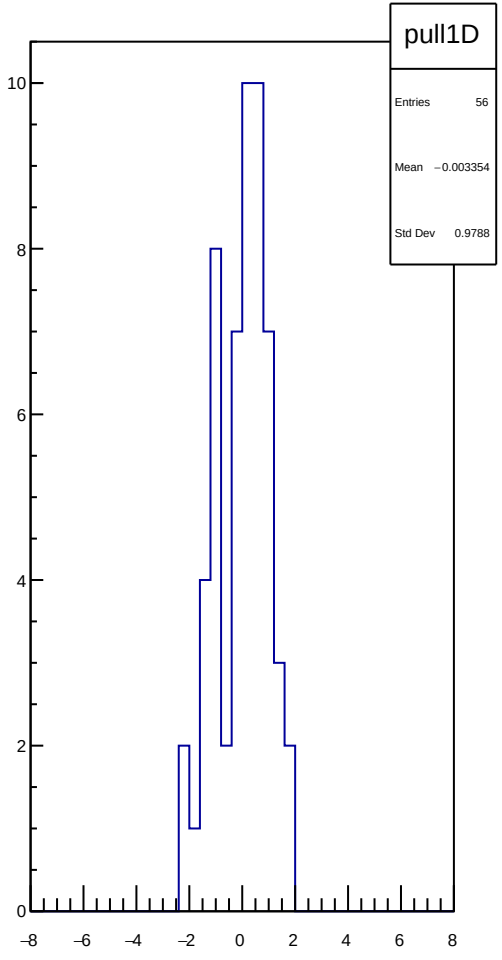

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 5.945e+04 / 55
p0 1276 ± 1.26
3000
2500
2000
1500
1000

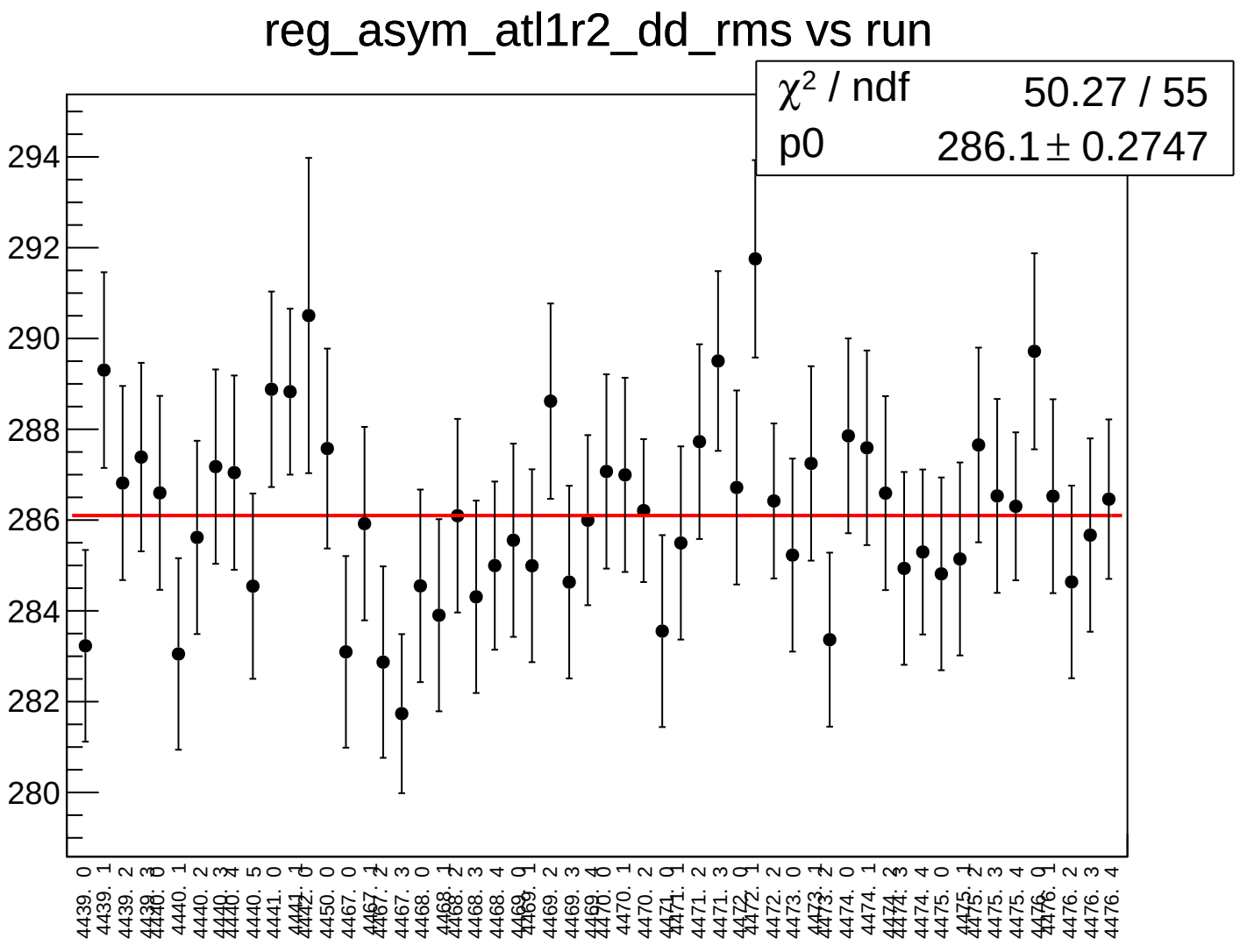

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 72.13 / 55
p0 94.09 ± 1835
100
80
60
40
20
0
−20
−40
pull
Entries 56
Mean −14.47
Std Dev 39.7
2
1
0
−1
−2

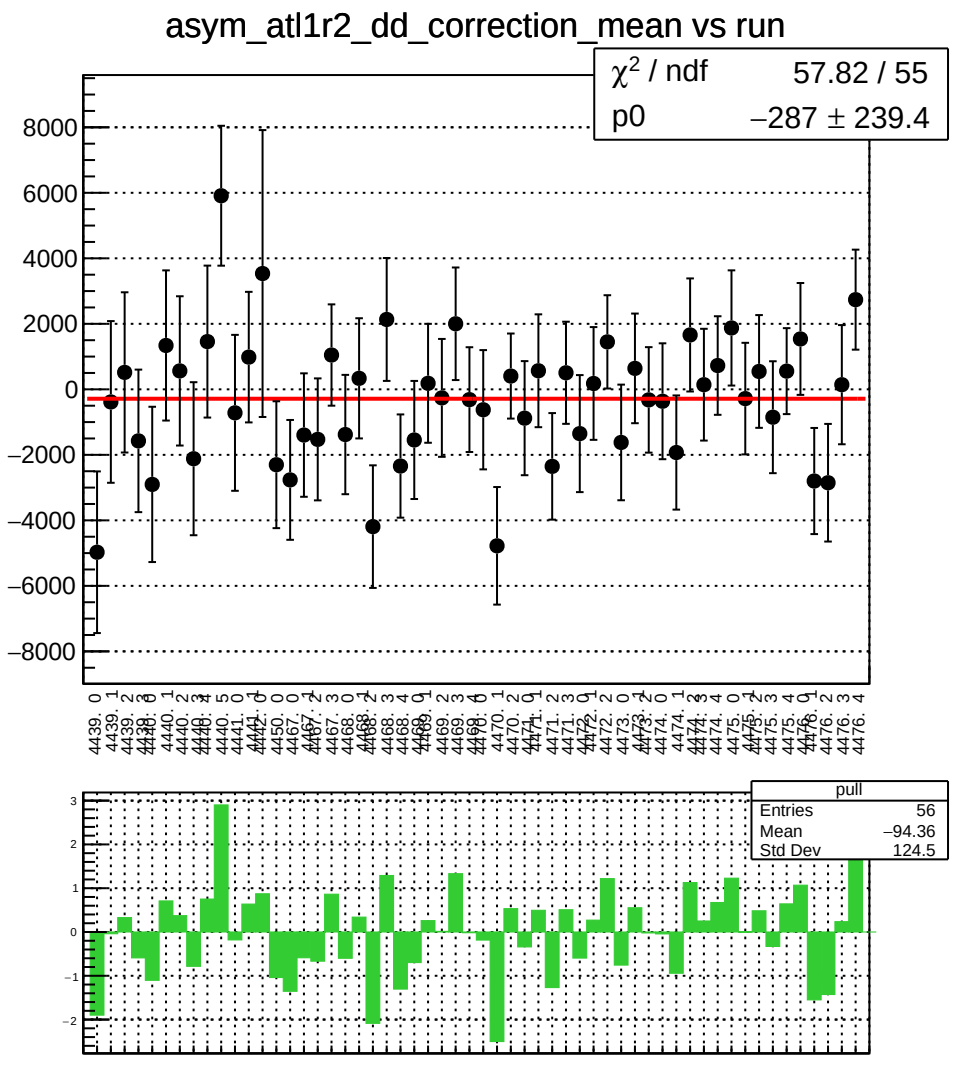

pull1D
Entries 56
Mean 0.08691
Std Dev 1.132
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

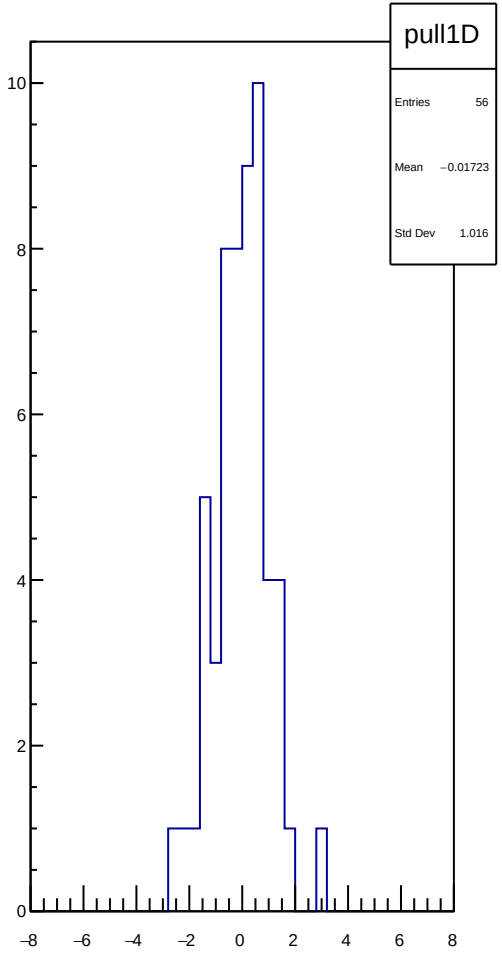

asym_atl1r2_avg_rms vs run
χ² / ndf 5.647e+04 / 55
p0 1316 ± 1.297
3000
2500
2000
1500
1000

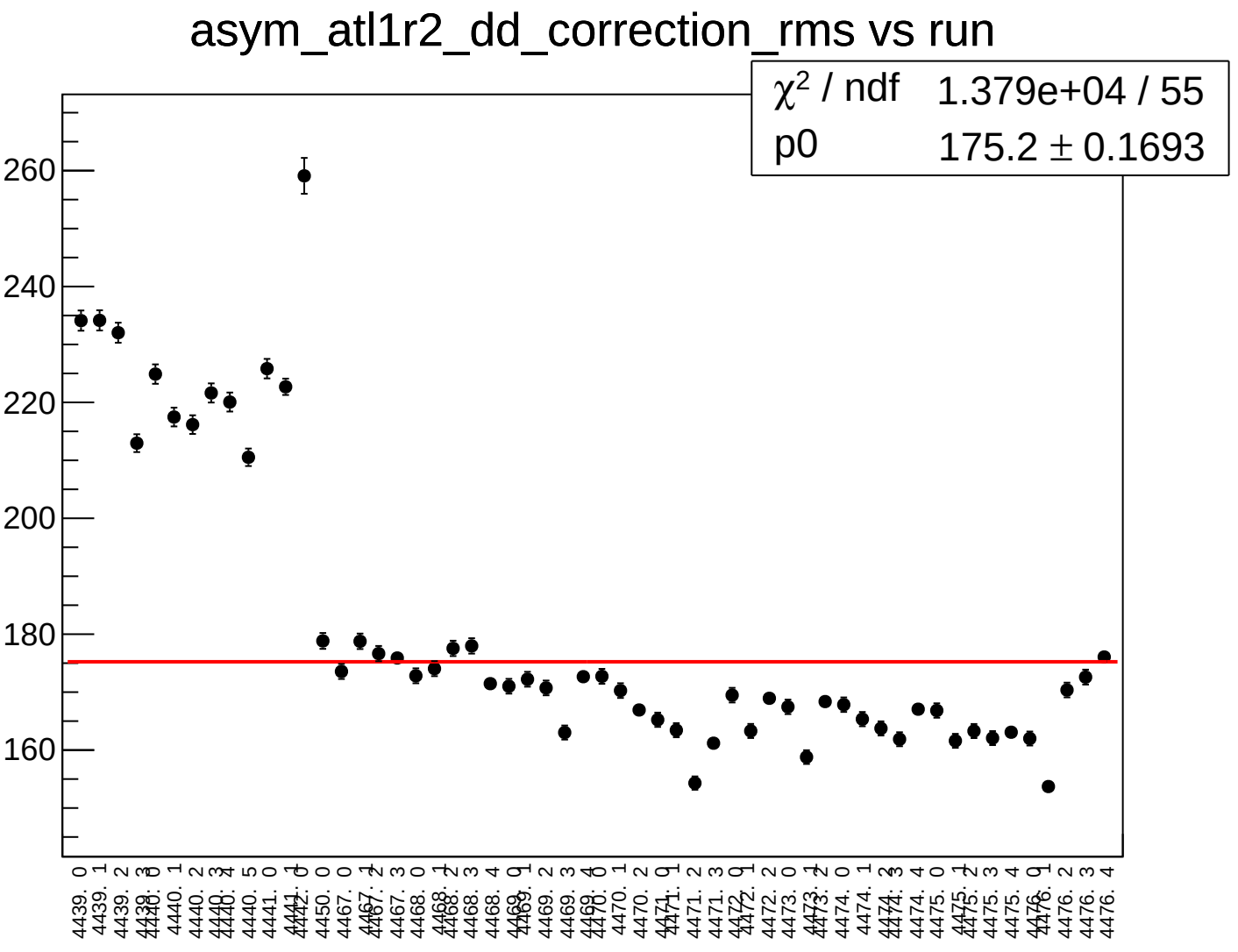

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 53.65 / 55
p0 −74.46 ± 388.4
10000
5000
0
−5000
−10000
pull
Entries 56
Mean −545.5
Std Dev 581.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

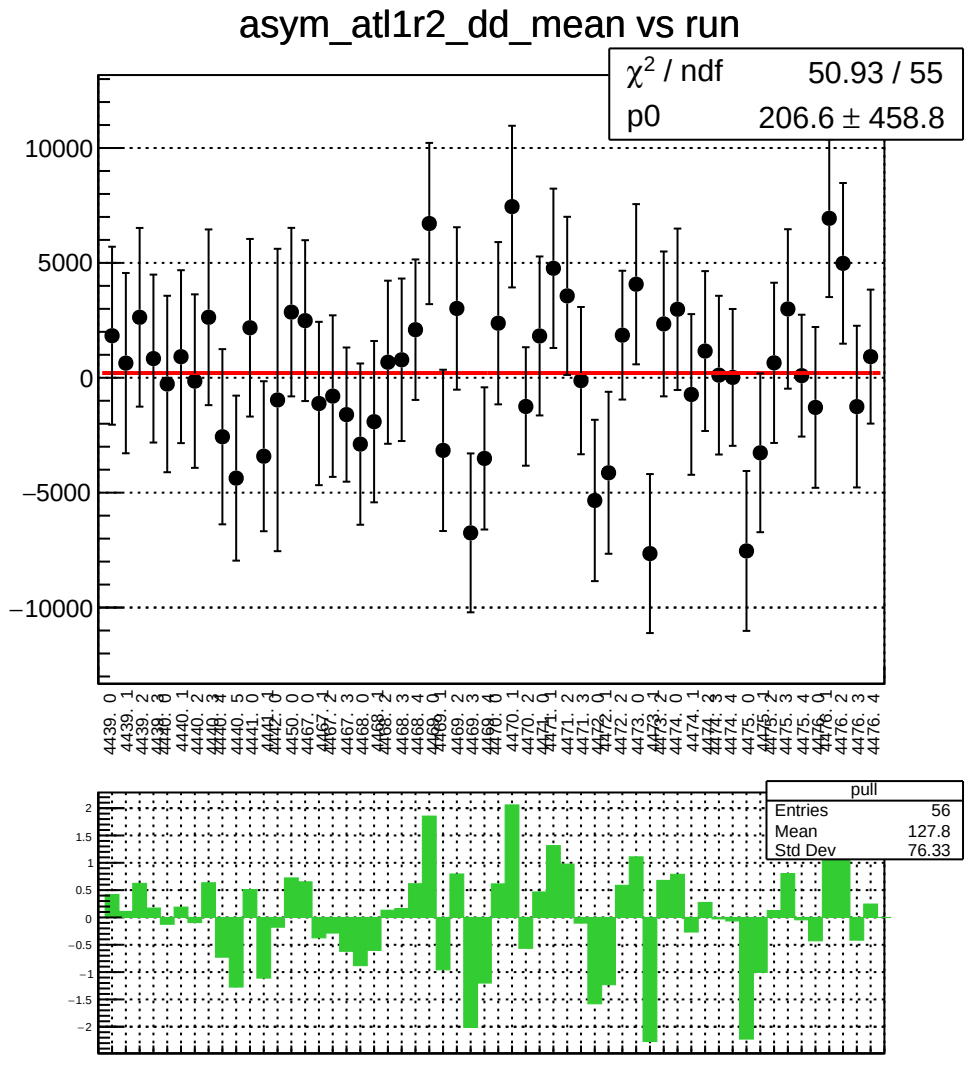

pull1D
Entries 56
Mean −0.003354
Std Dev 0.9788
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

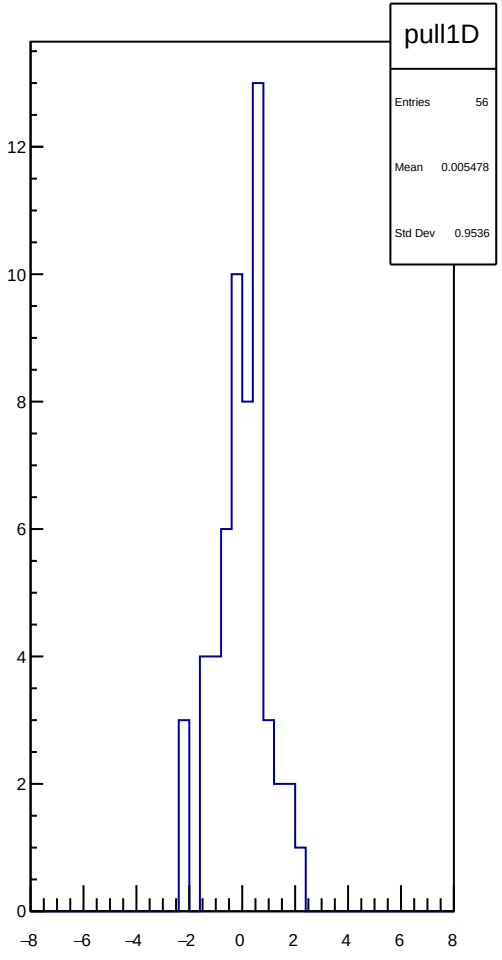

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 50.27 / 55
p0 286.1 ± 0.2747
294
292
290
288
286
284
282
280
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

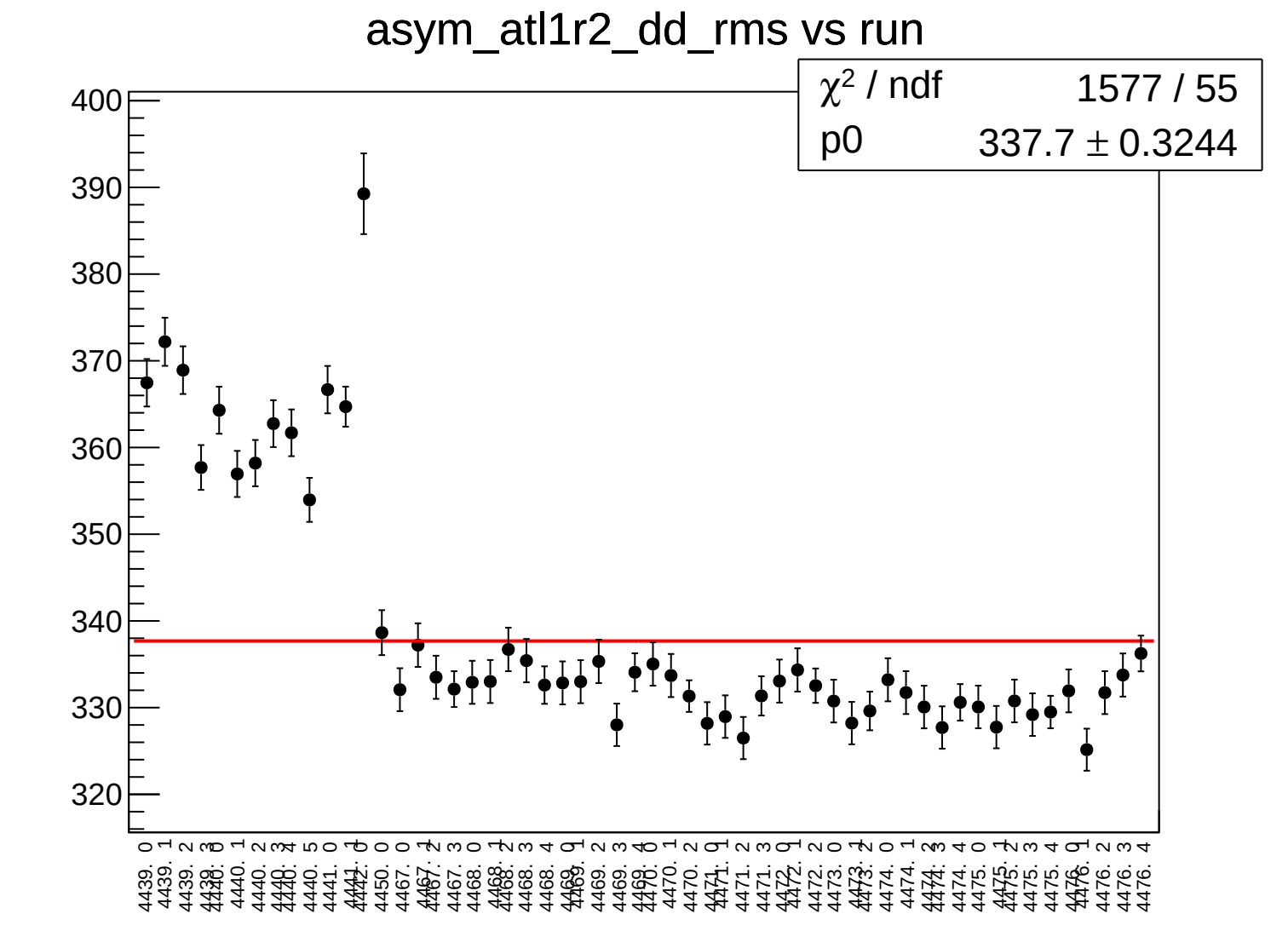

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 57.82 / 55
p0 −287 ± 239.4
pull
Entries 56
Mean −94.36
Std Dev 124.5

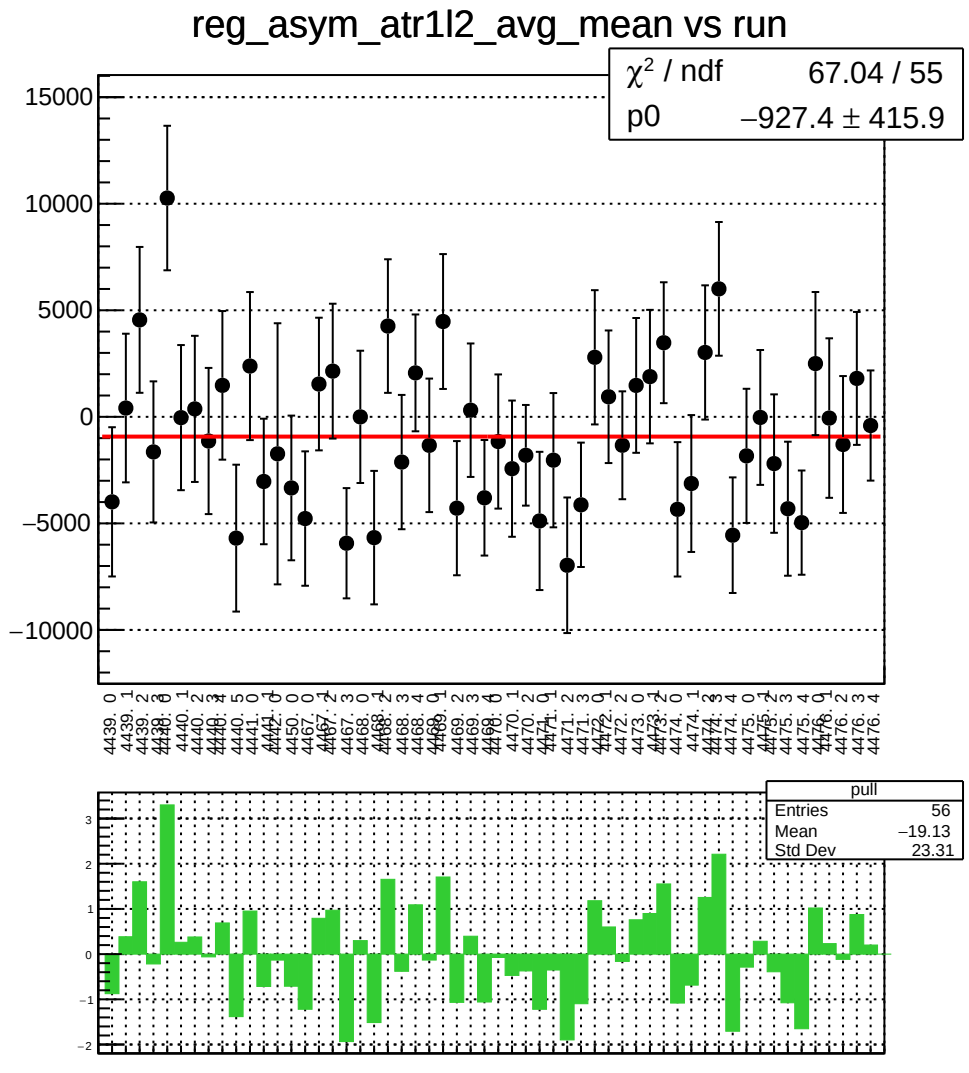

pull1D
Entries 56
Mean −0.01723
Std Dev 1.016

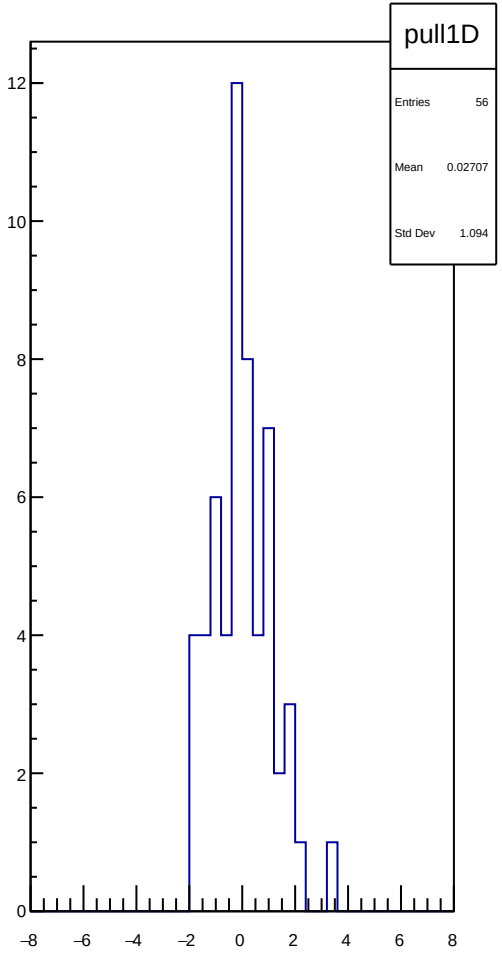

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 1.379e+04 / 55
p0 175.2 ± 0.1693
260
240
220
200
180
160

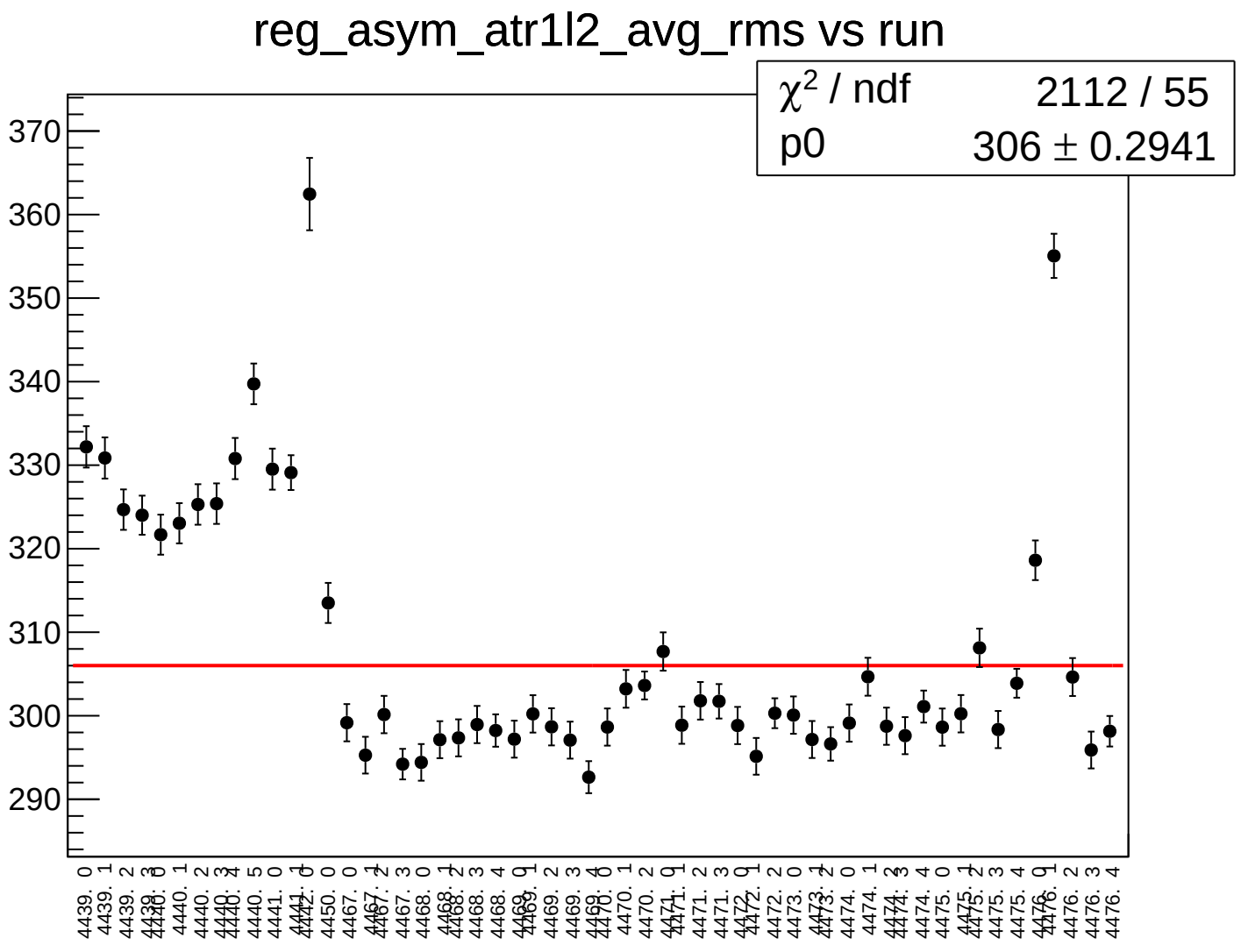

asym_atl1r2_dd_mean vs run
χ² / ndf 50.93 / 55
p0 206.6 ± 458.8
10000
5000
0
−5000
−10000
pull
Entries 56
Mean 127.8
Std Dev 76.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

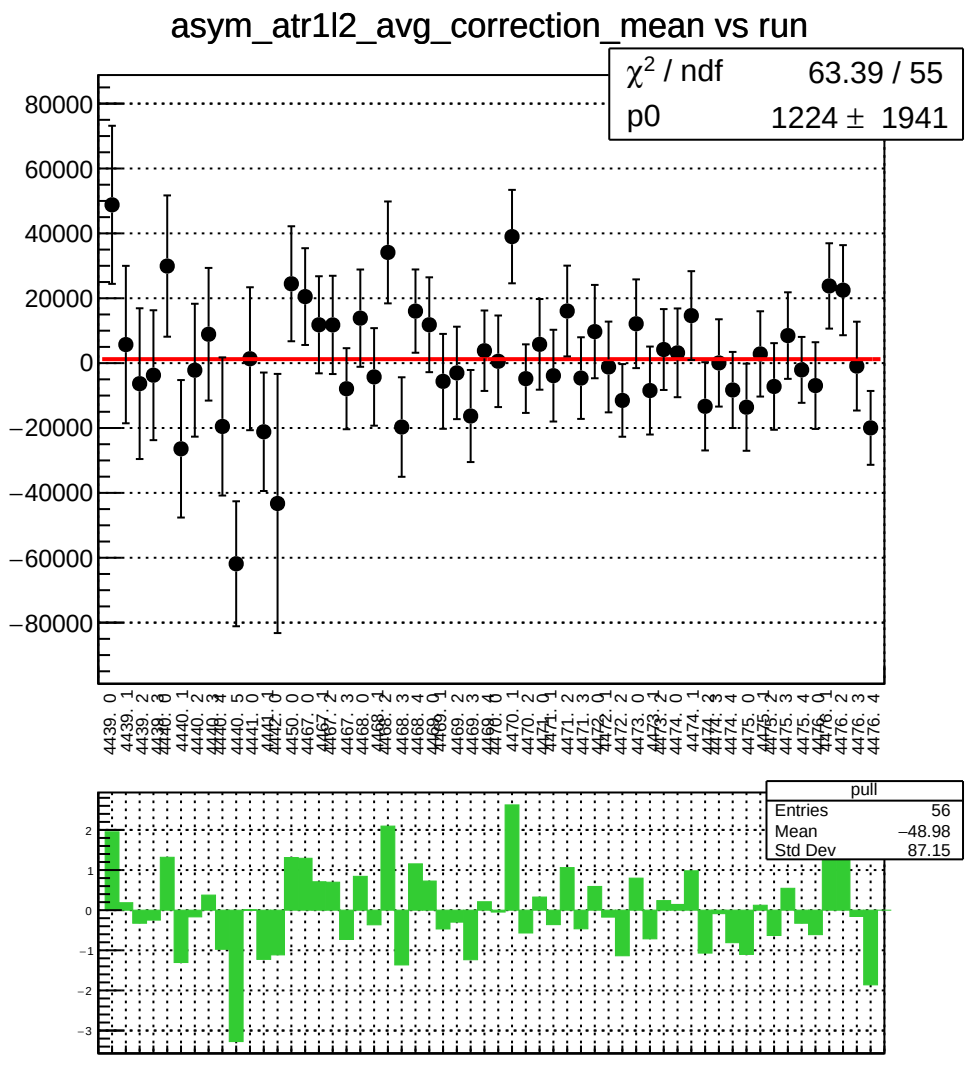

pull1D
Entries 56
Mean 0.005478
Std Dev 0.9536
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

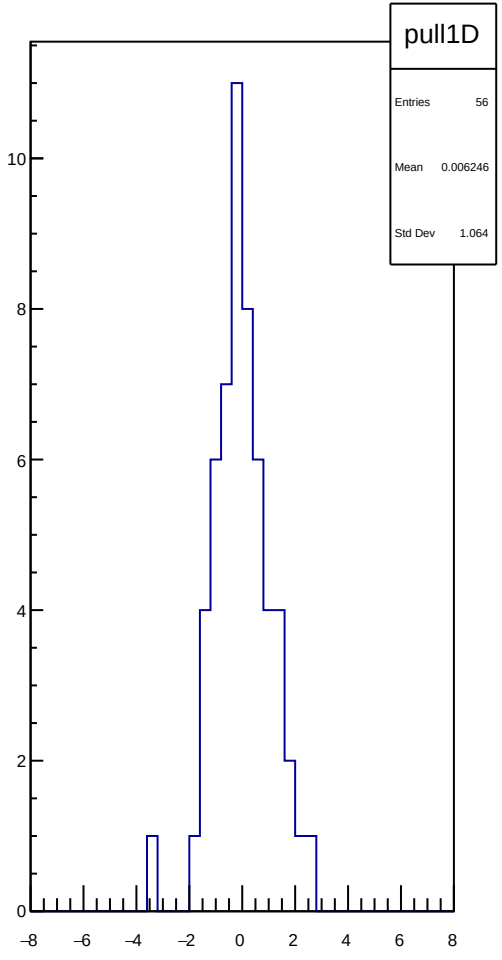

asym_atl1r2_dd_rms vs run
χ² / ndf 1577 / 55
p0 337.7 ± 0.3244
400
390
380
370
360
350
340
330
320

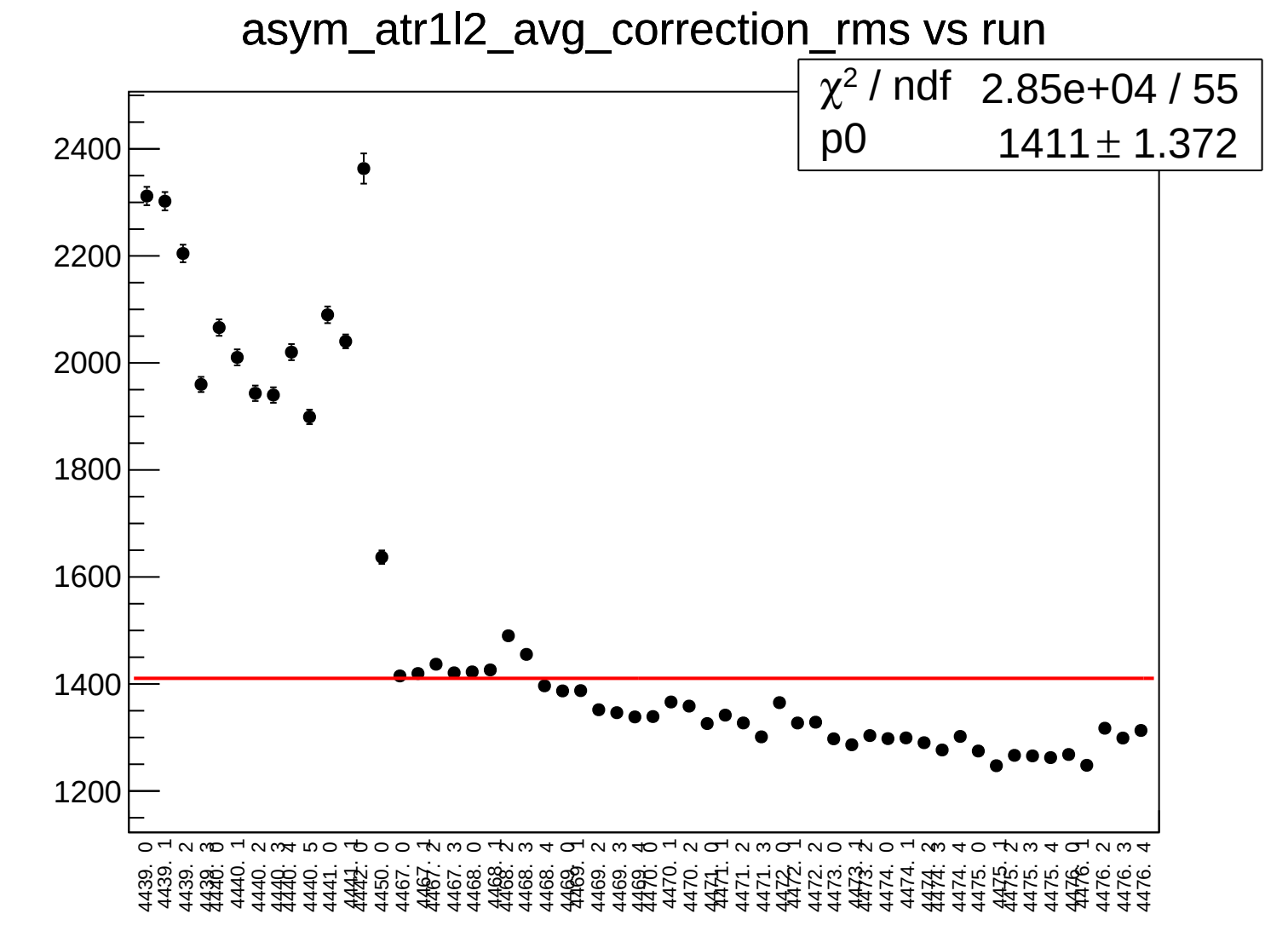

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 67.04 / 55
p0 −927.4 ± 415.9
15000
10000
5000
0
−5000
−10000
pull
Entries 56
Mean −19.13
Std Dev 23.31
3
2
1
0
−1
−2

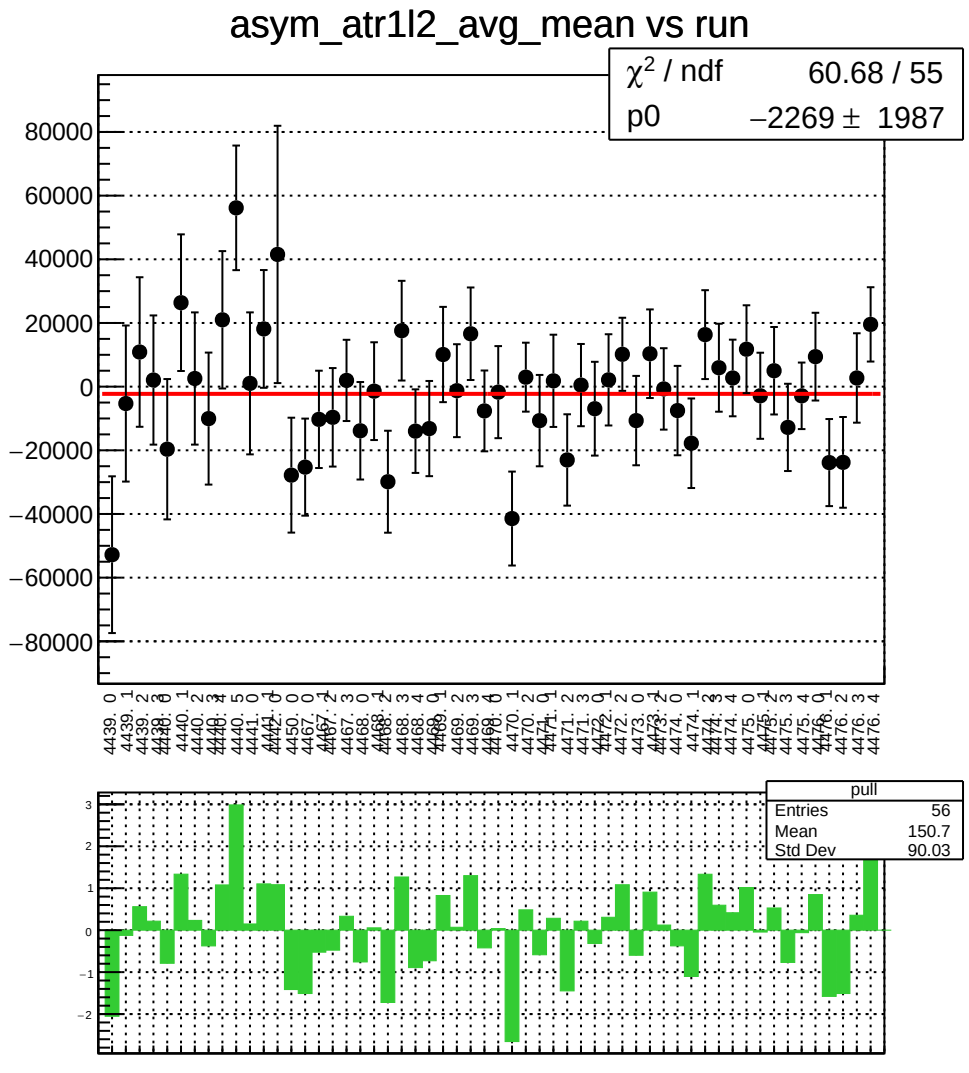

pull1D
Entries 56
Mean 0.02707
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

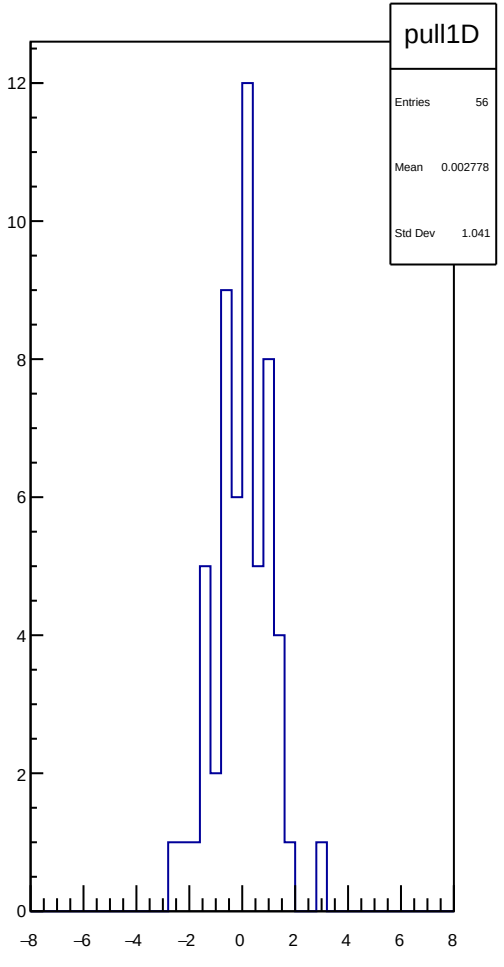

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 2112 / 55
p0 306 ± 0.2941
370
360
350
340
330
320
310
300
290

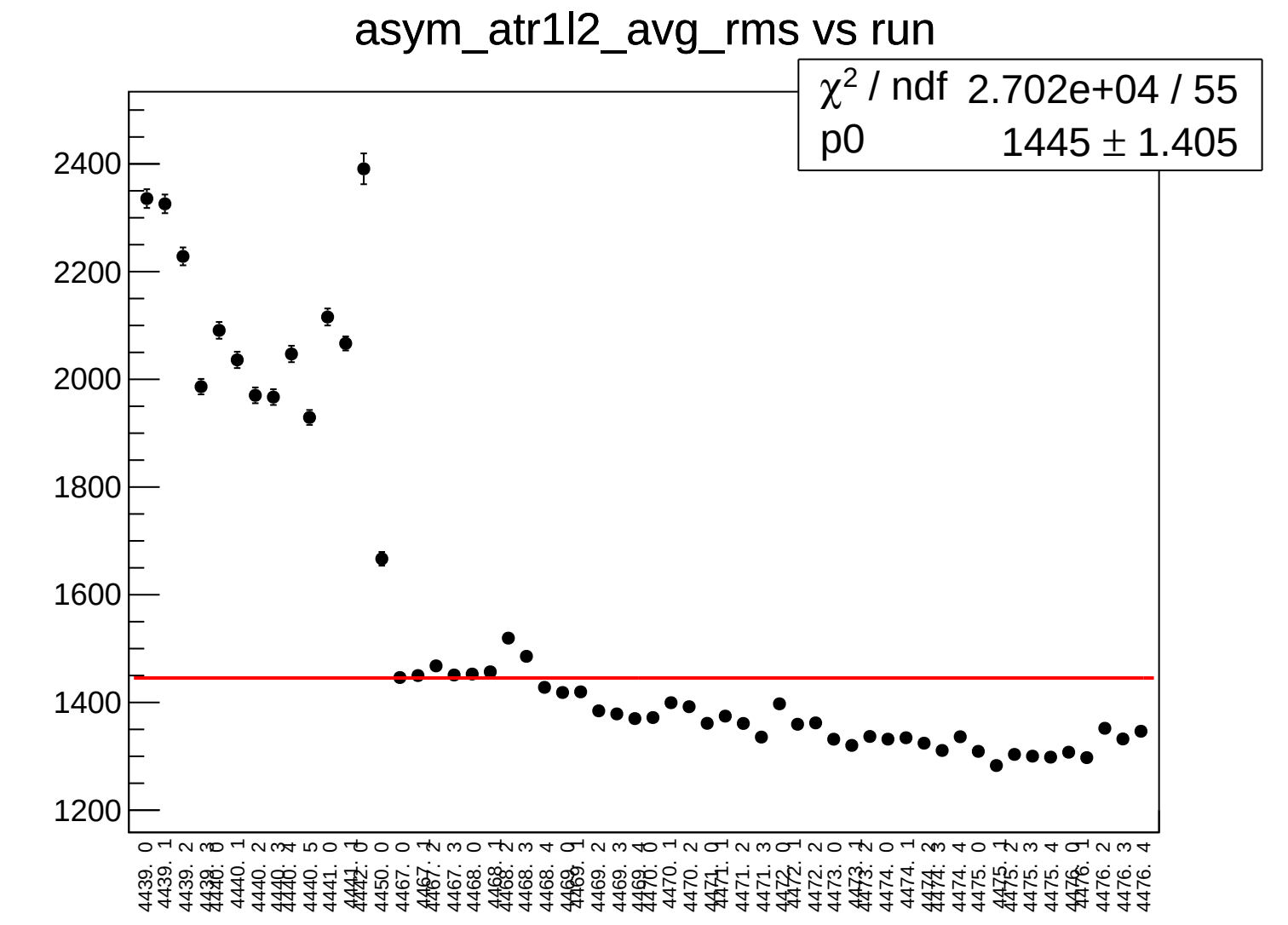

asym_atr1l2_avg_correction_mean vs run
χ² / ndf 63.39 / 55
p0 1224 ± 1941
pull
Entries 56
Mean −48.98
Std Dev 87.15

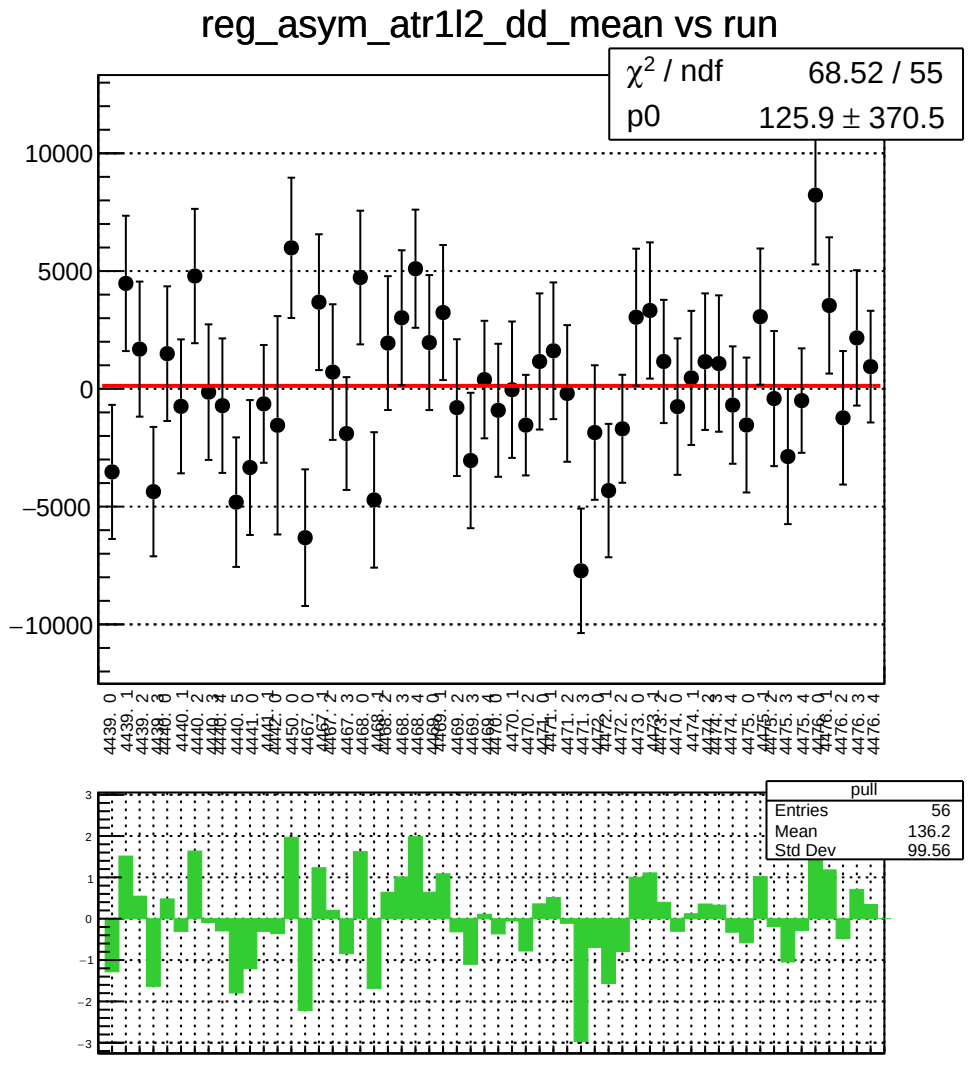

pull1D
Entries 56
Mean 0.006246
Std Dev 1.064

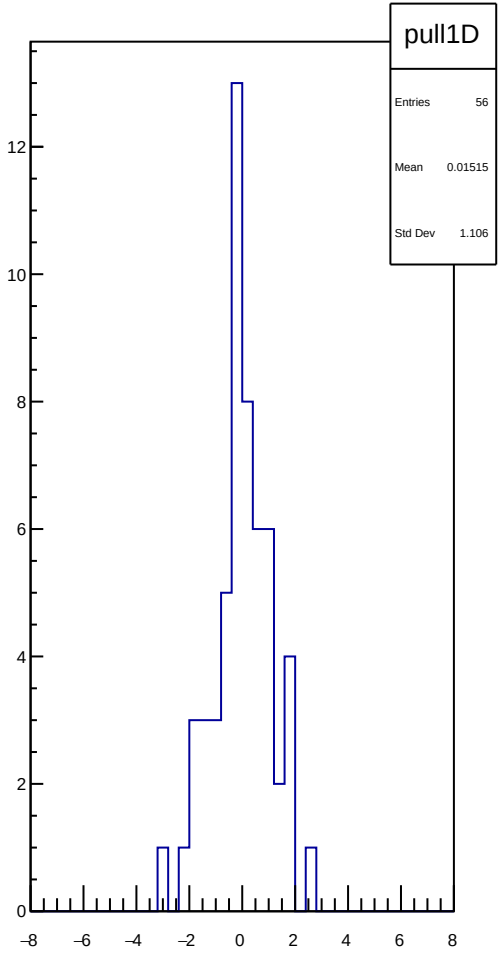

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 2.85e+04 / 55
p0 1411 ± 1.372
2400
2200
2000
1800
1600
1400
1200

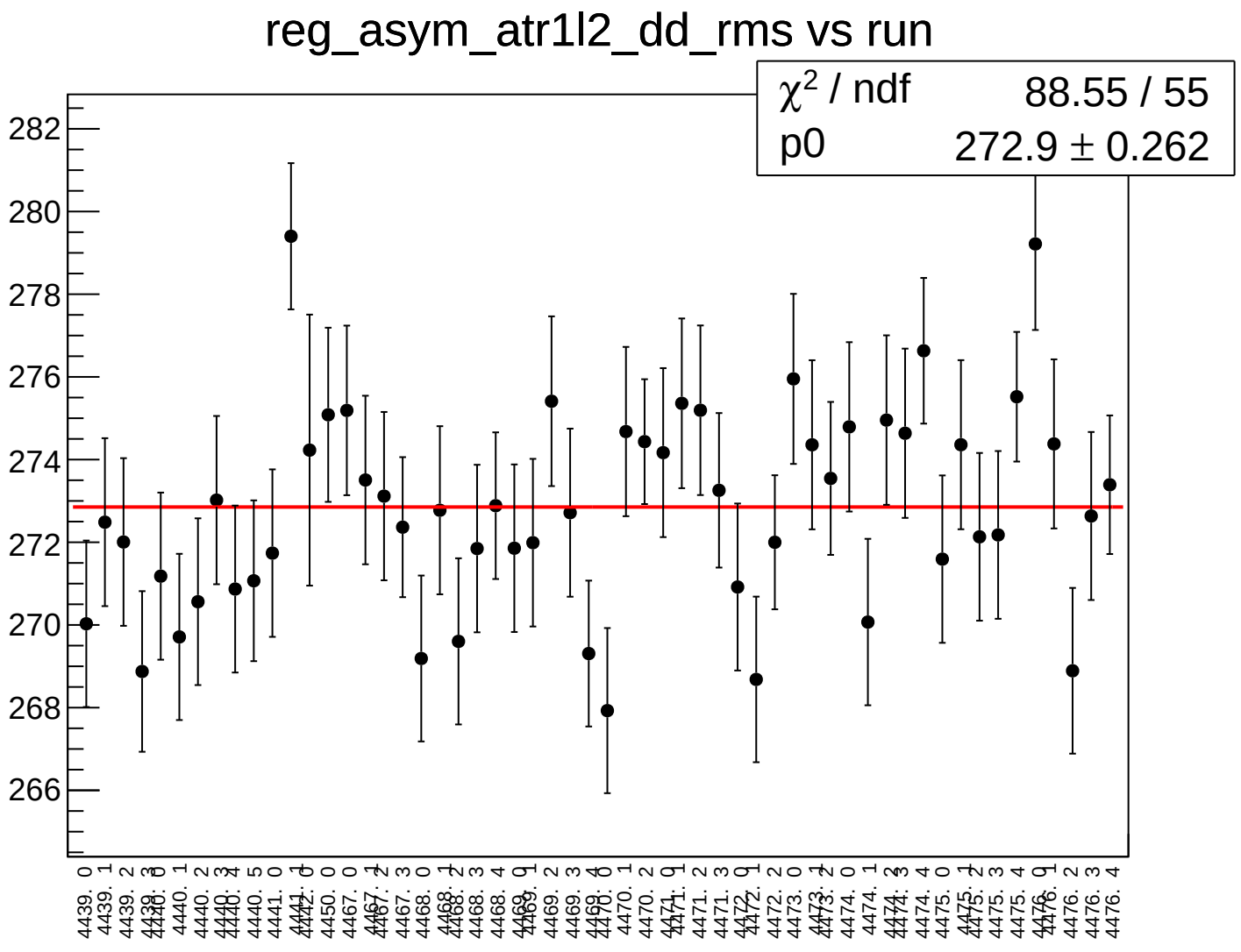

asym_atr1l2_avg_mean vs run
χ² / ndf 60.68 / 55
p0 −2269 ± 1987
pull
Entries 56
Mean 150.7
Std Dev 90.03

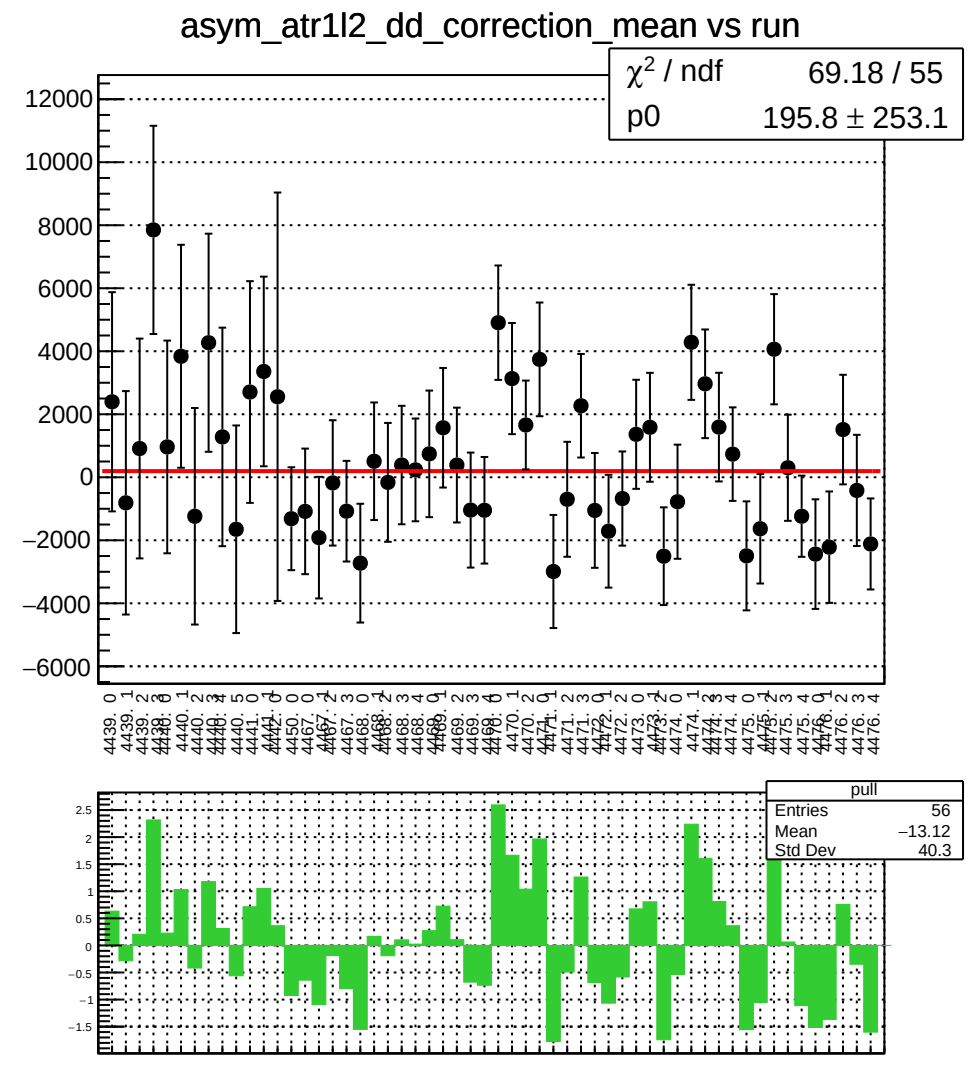

pull1D
Entries 56
Mean 0.002778
Std Dev 1.041

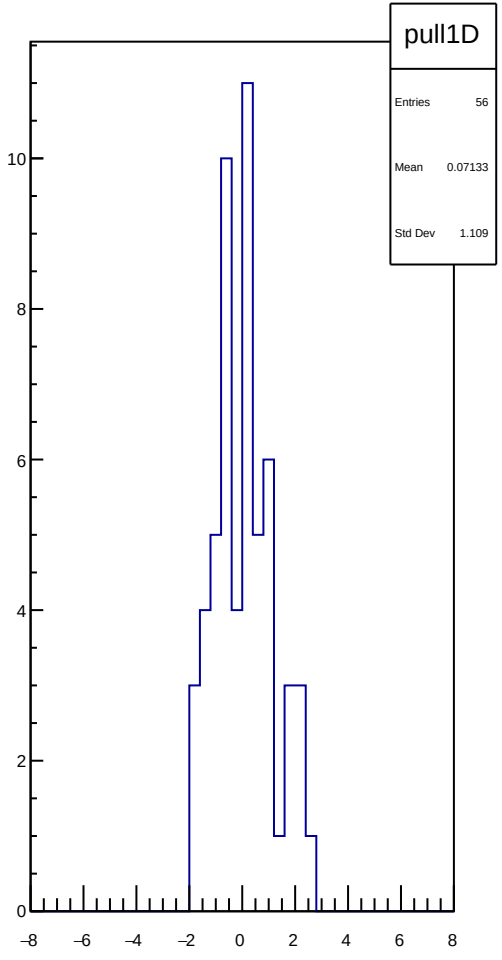

asym_atr1l2_avg_rms vs run
χ² / ndf 2.702e+04 / 55
p0 1445 ± 1.405
2400
2200
2000
1800
1600
1400
1200

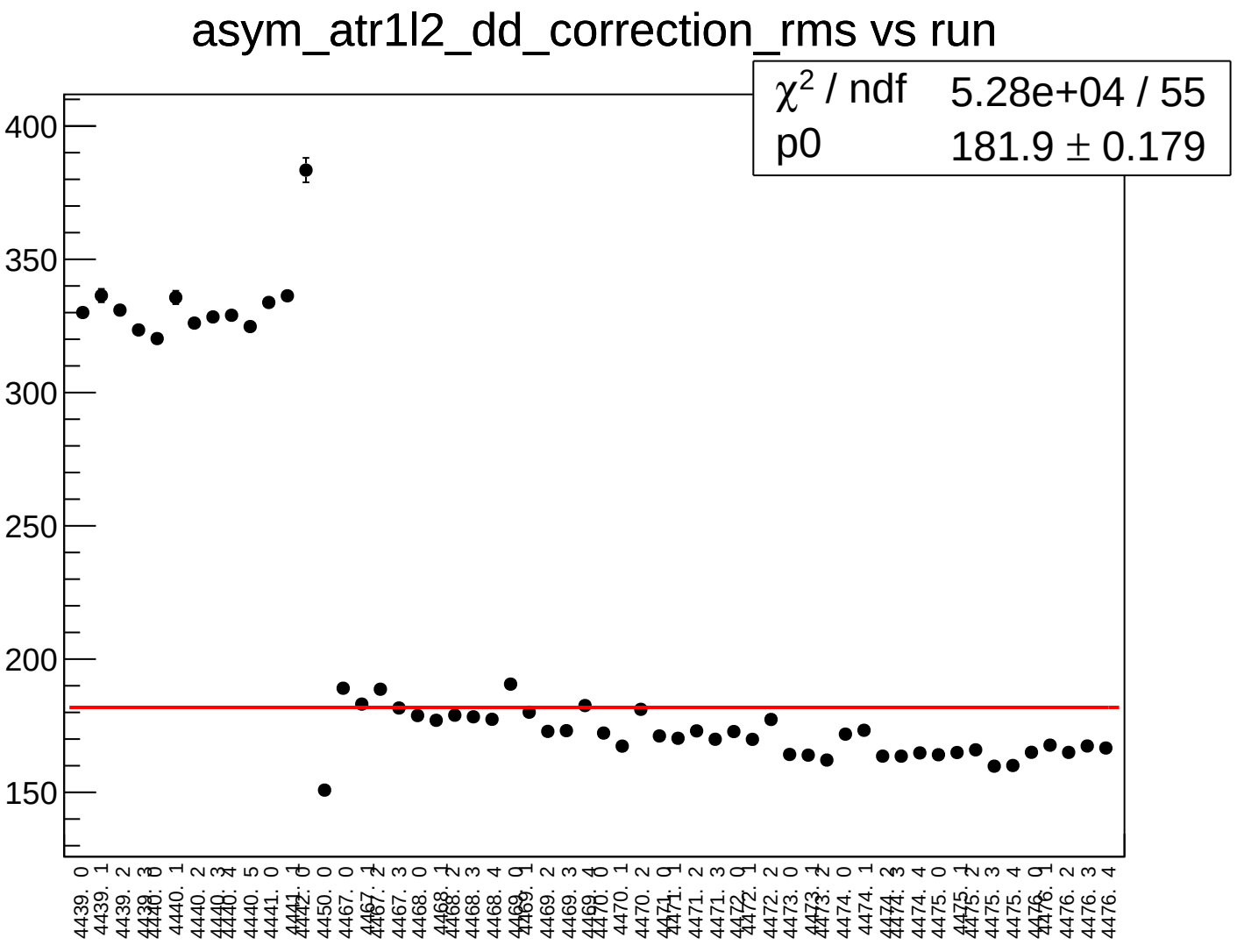

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 68.52 / 55
p0 125.9 ± 370.5
10000
5000
0
−5000
−10000
pull
Entries 56
Mean 136.2
Std Dev 99.56
3
2
1
0
−1
−2
−3

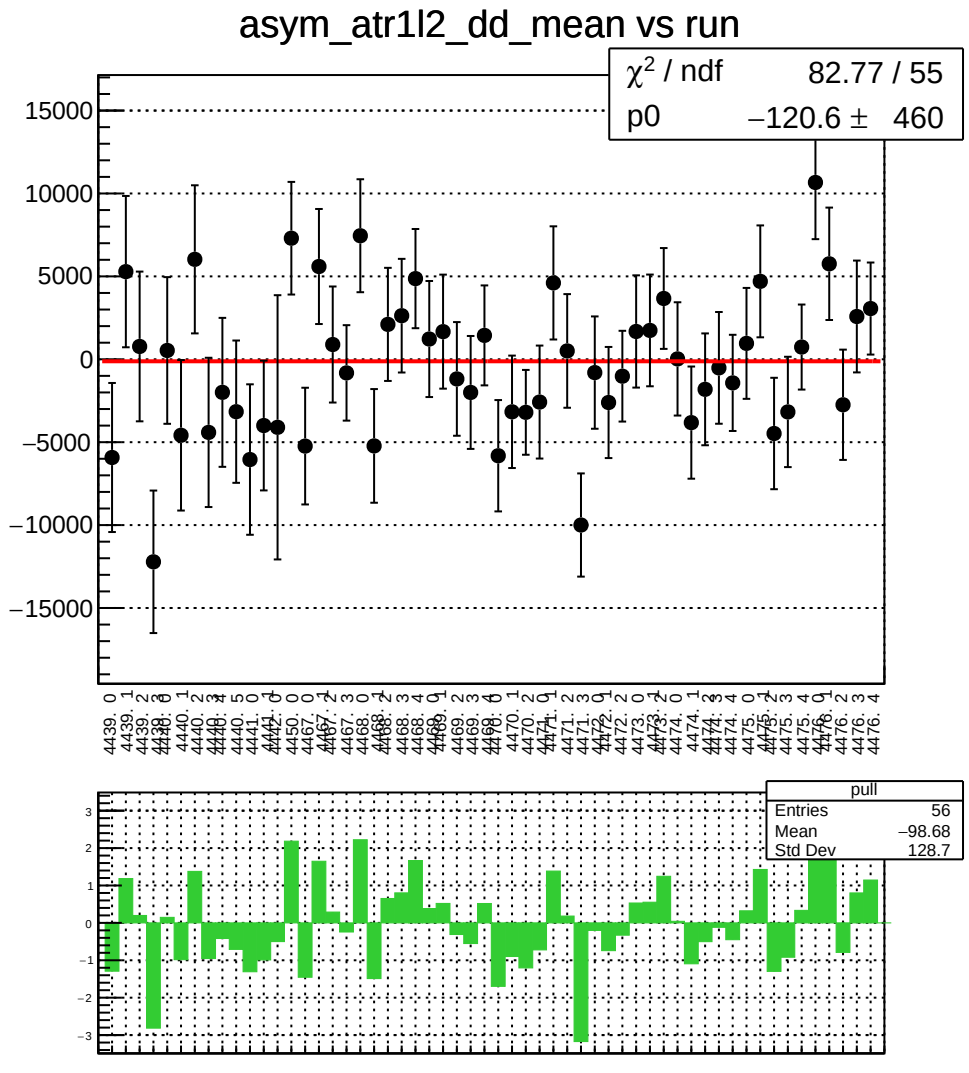

pull1D
Entries 56
Mean 0.01515
Std Dev 1.106
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

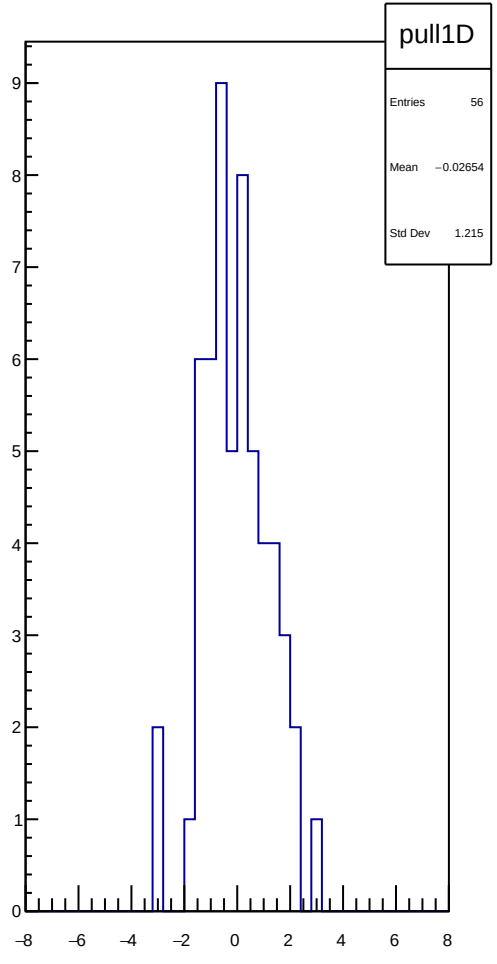

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 88.55 / 55
p0 272.9 ± 0.262
282
280
278
276
274
272
270
268
266

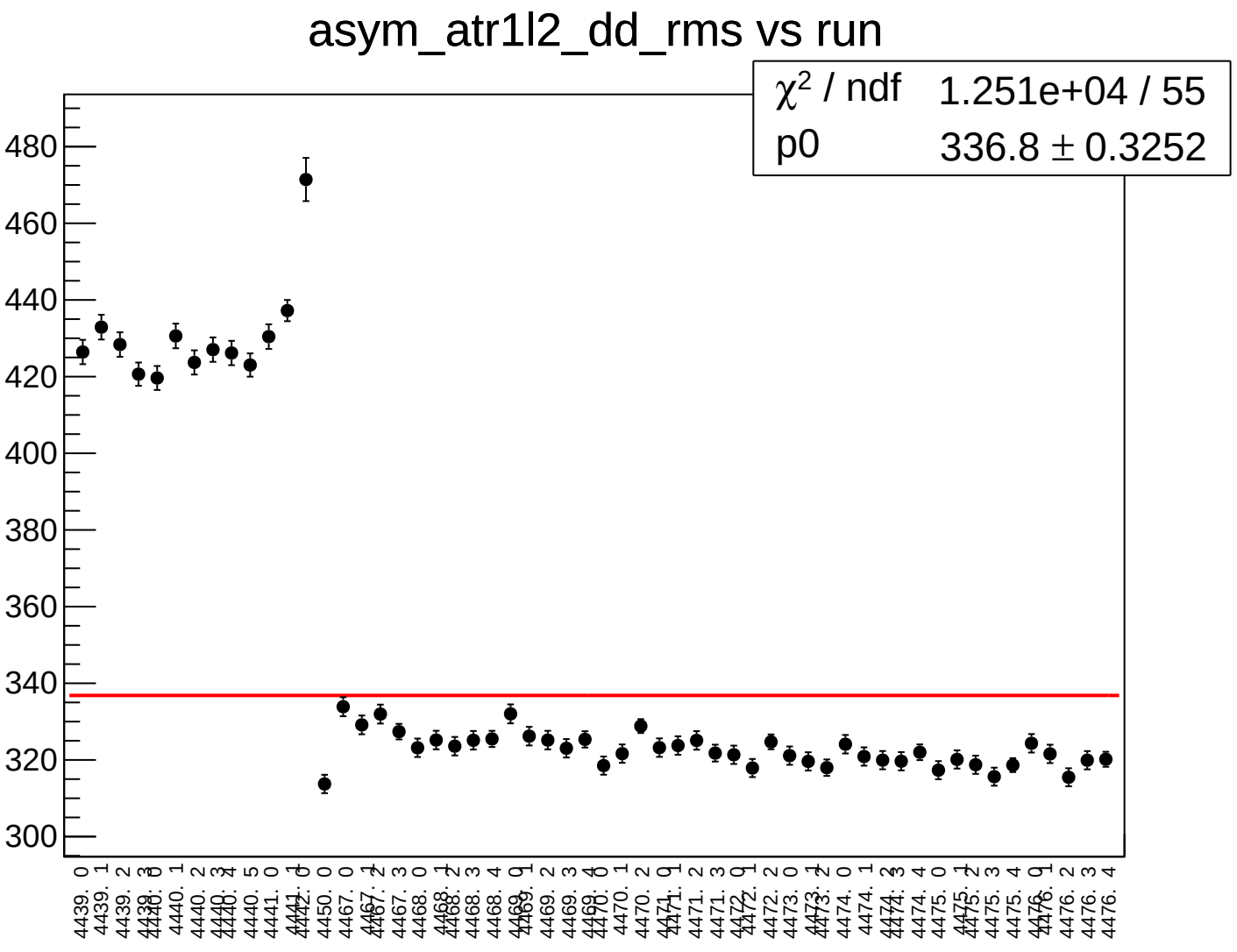

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 69.18 / 55
p0 195.8 ± 253.1
pull
Entries 56
Mean −13.12
Std Dev 40.3

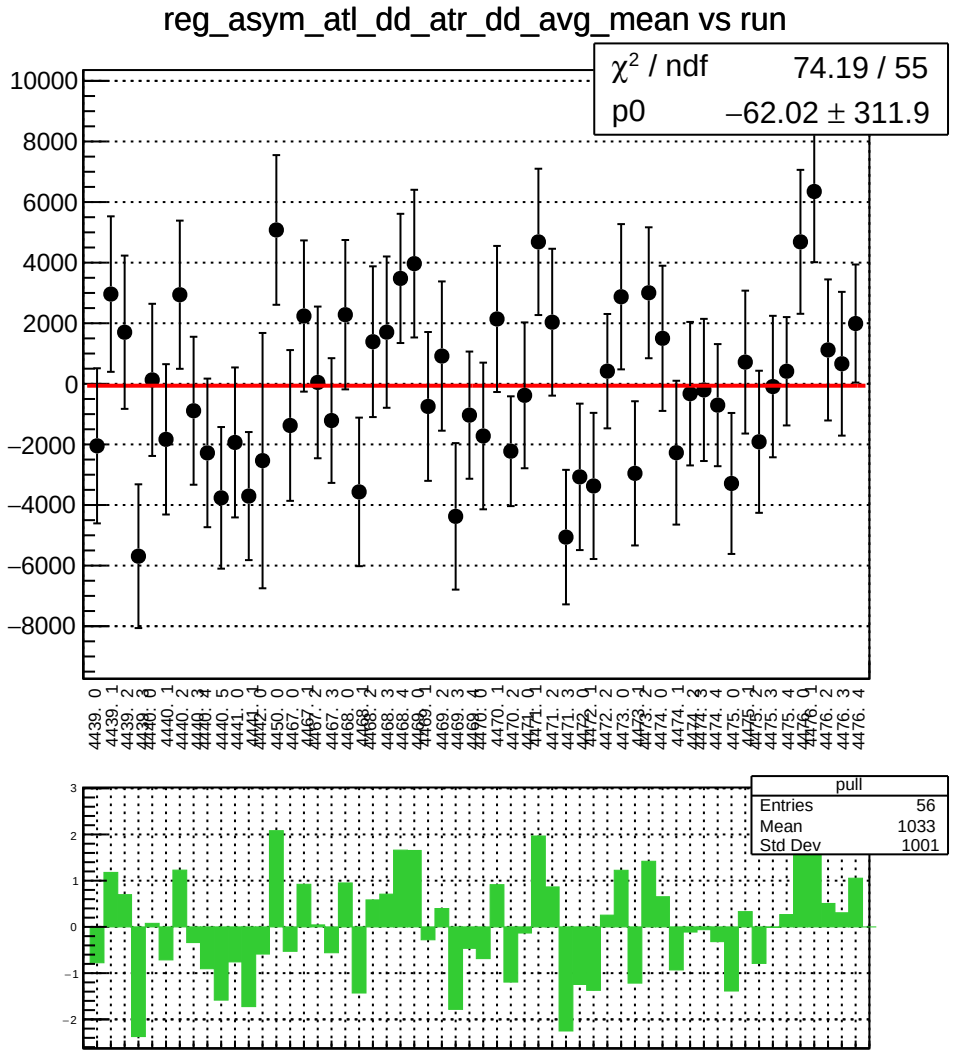

pull1D
Entries 56
Mean 0.07133
Std Dev 1.109

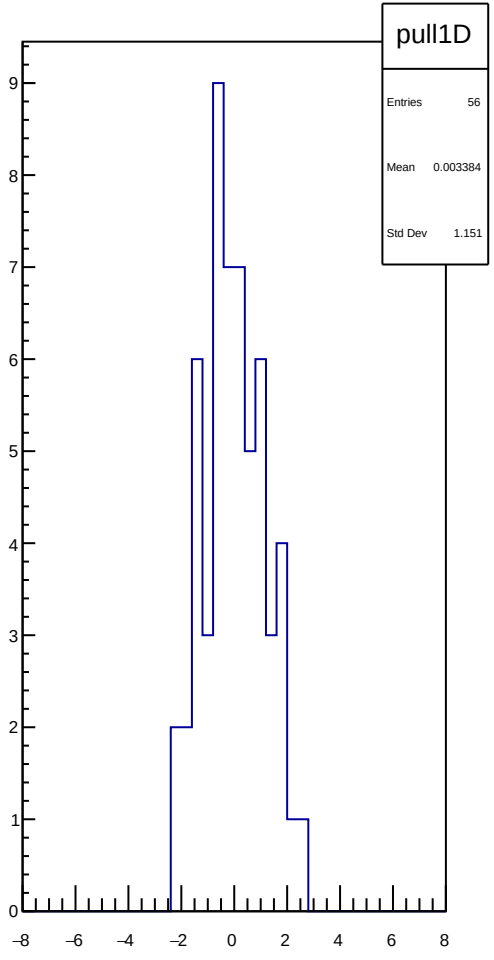

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 5.28e+04 / 55
p0 181.9 ± 0.179
400
350
300
250
200
150
4439. 0
4439. 1
4439. 2
4439. 3
4439. 4
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4441. 2
4441. 3
4441. 4
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

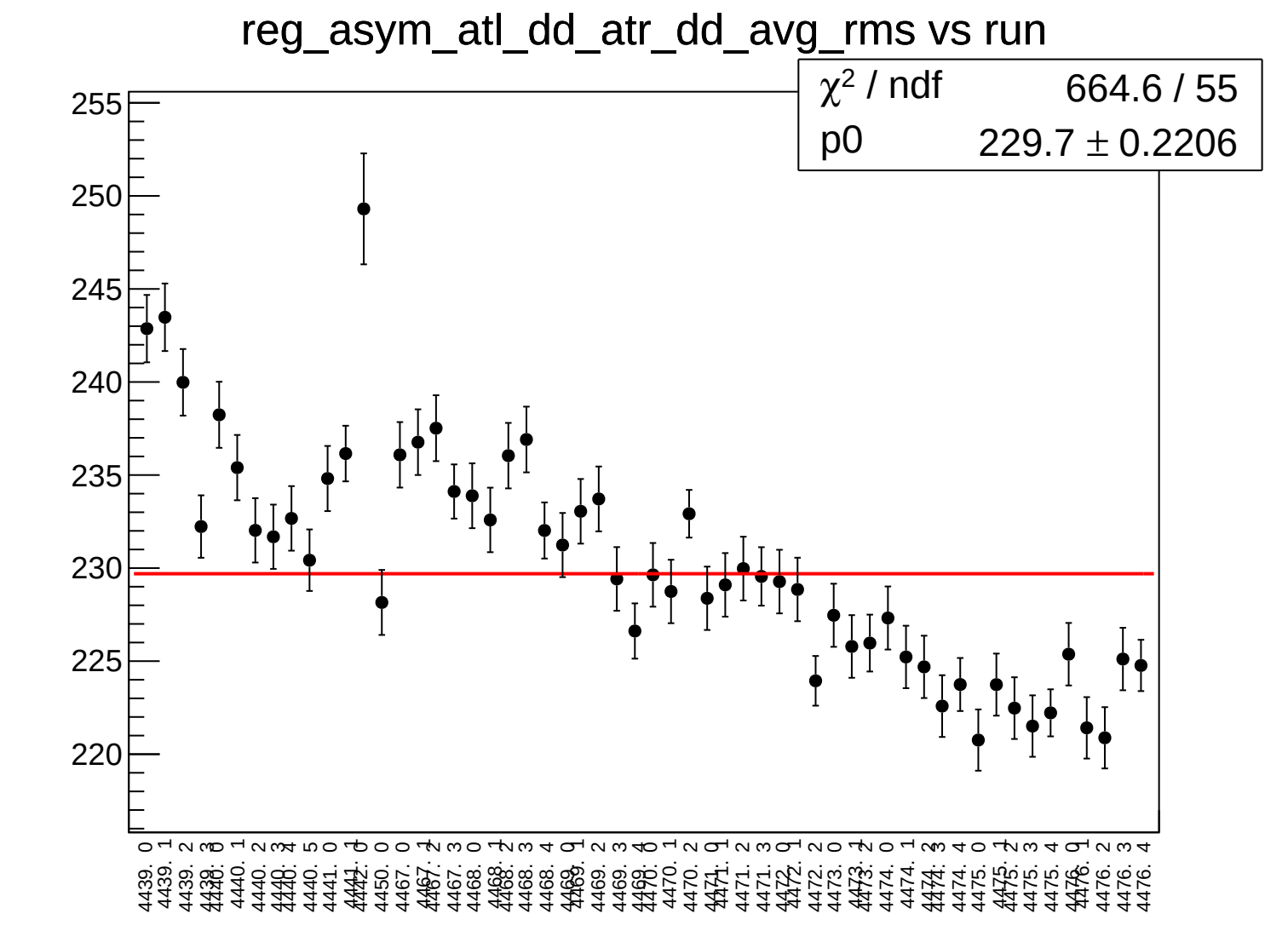

asym_atr1l2_dd_mean vs run
χ² / ndf 82.77 / 55
p0 −120.6 ± 460
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 56
Mean −98.68
Std Dev 128.7
3
2
1
0
−1
−2
−3

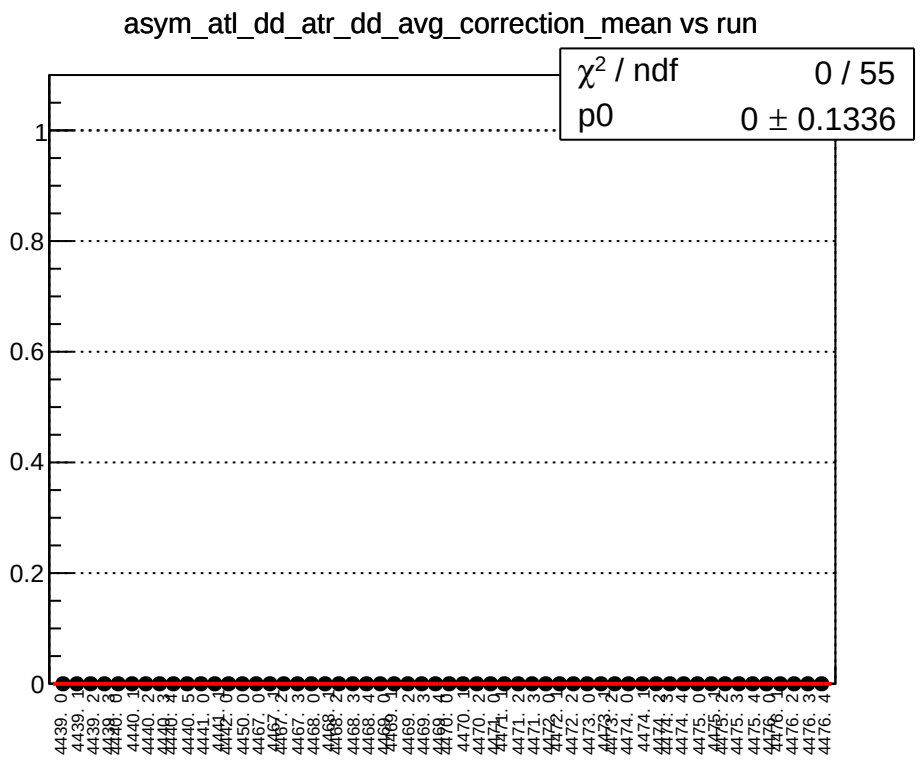

pull1D
Entries 56
Mean −0.02654
Std Dev 1.215
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

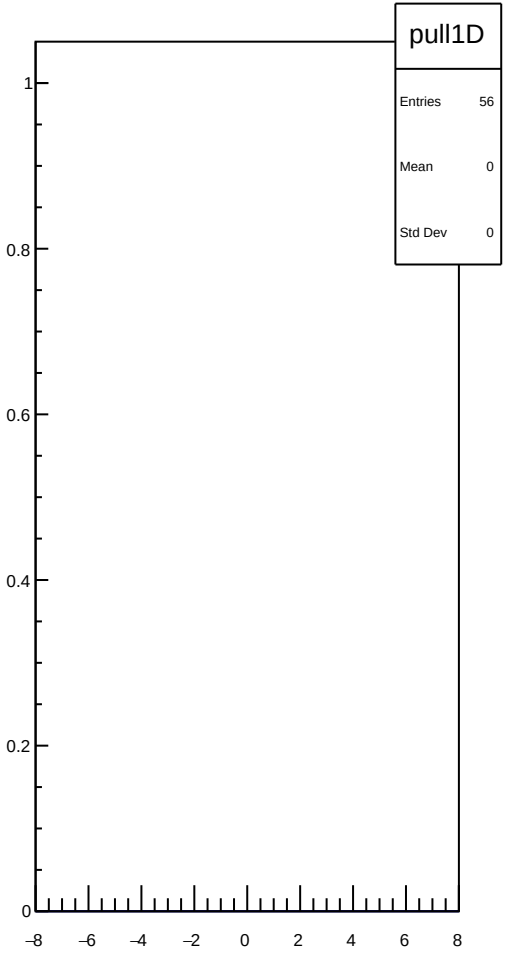

asym_atr1l2_dd_rms vs run
χ² / ndf 1.251e+04 / 55
p0 336.8 ± 0.3252
480
460
440
420
400
380
360
340
320
300

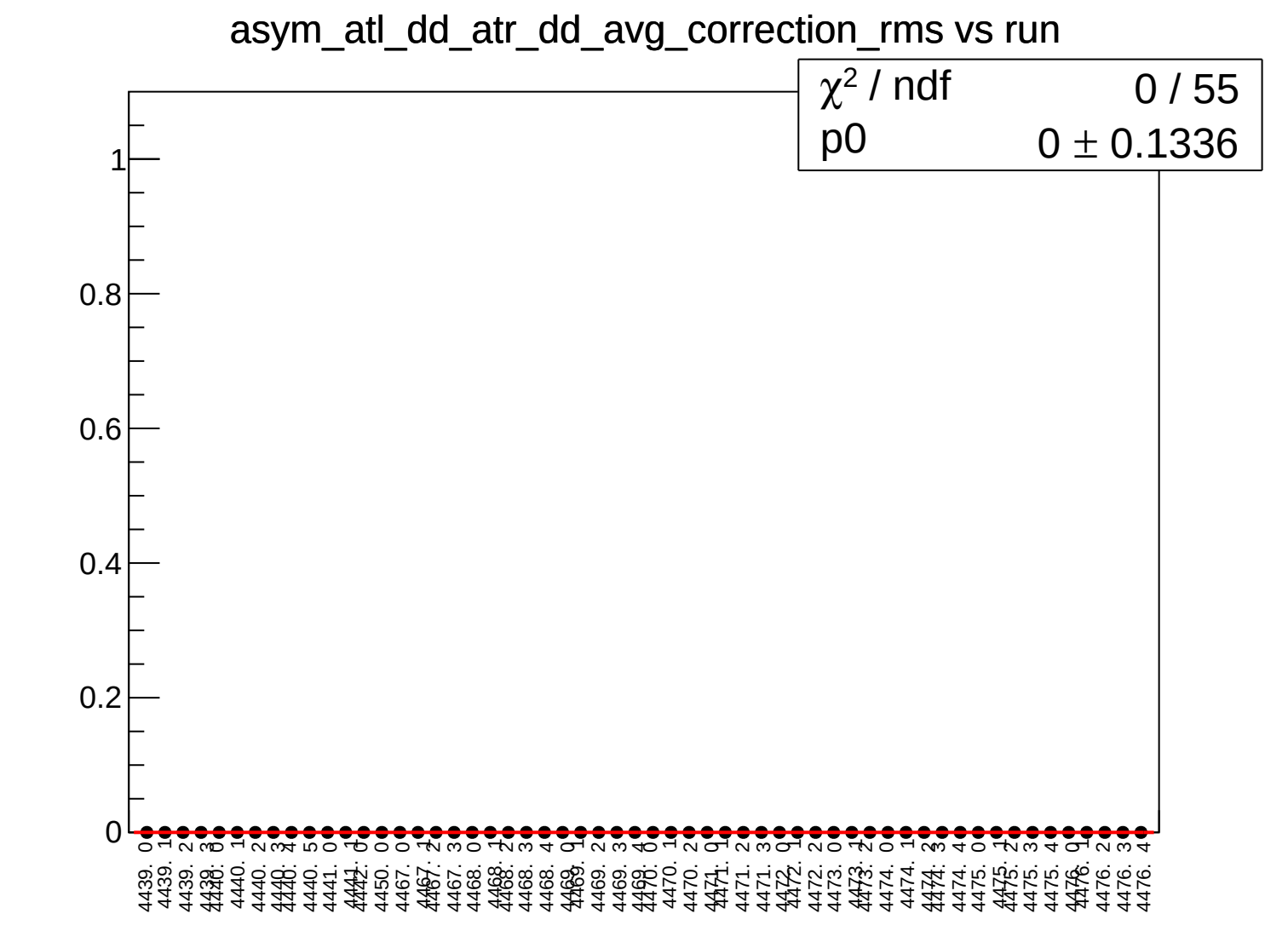

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 74.19 / 55
p0 −62.02 ± 311.9
pull
Entries 56
Mean 1033
Std Dev 1001

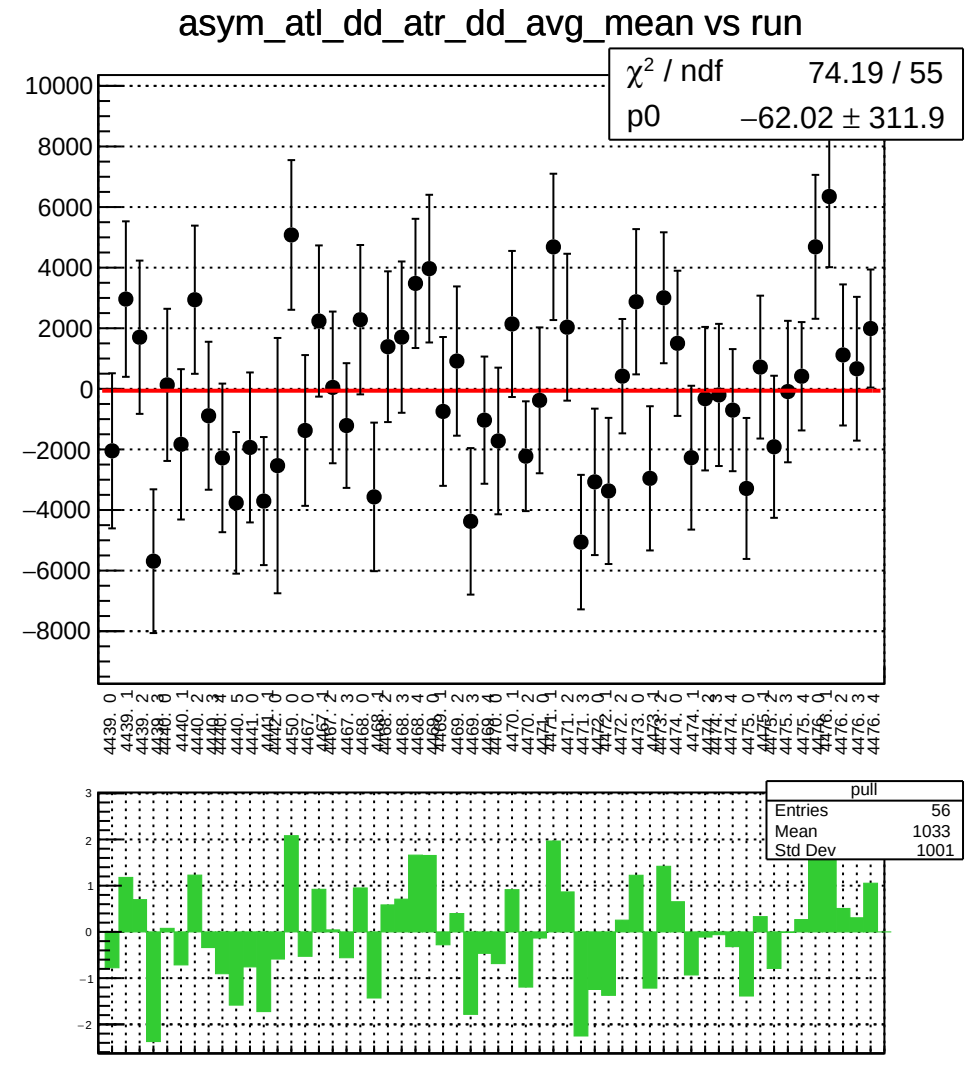

pull1D
Entries 56
Mean 0.003384
Std Dev 1.151

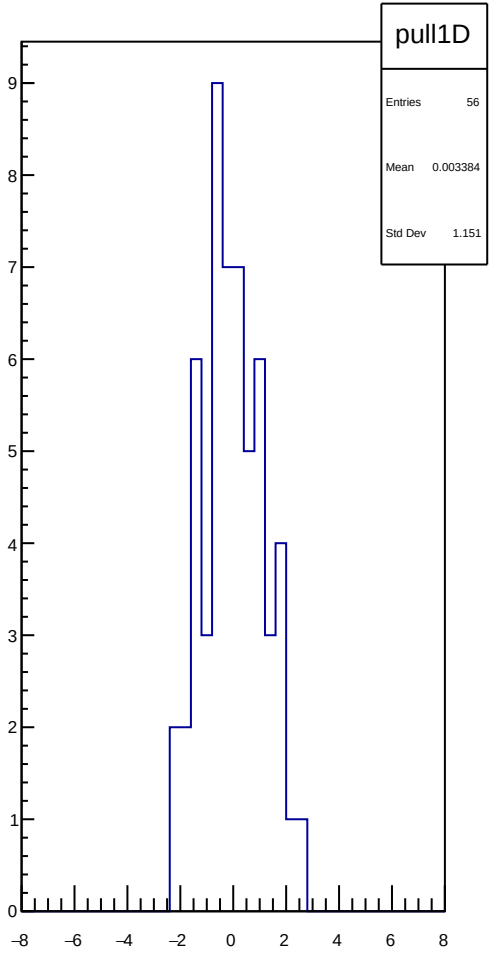

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 664.6 / 55
p0 229.7 ± 0.2206
255
250
245
240
235
230
225
220

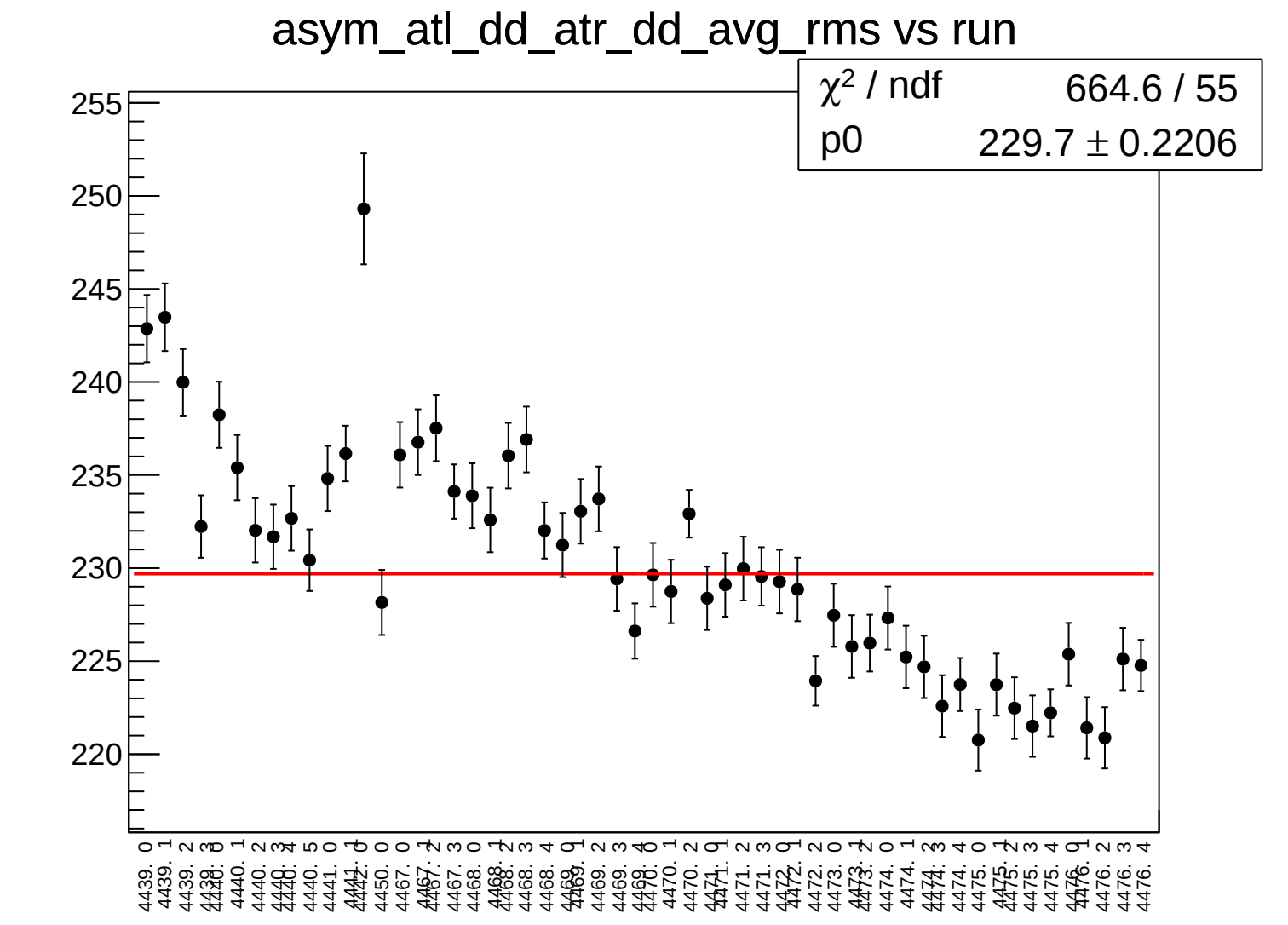

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 55
p0 0 ± 0.1336
1
0.8
0.6
0.4
0.2
0

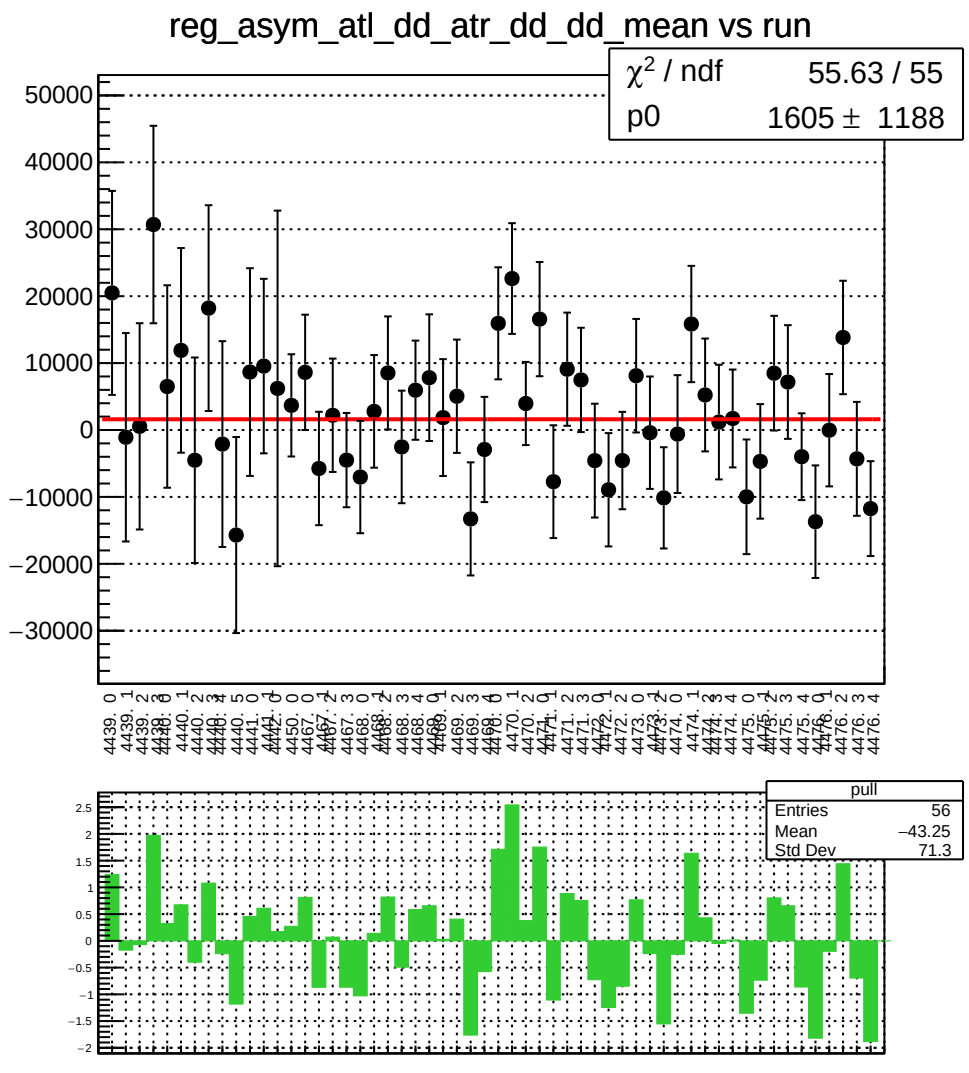

pull1D
Entries 56
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

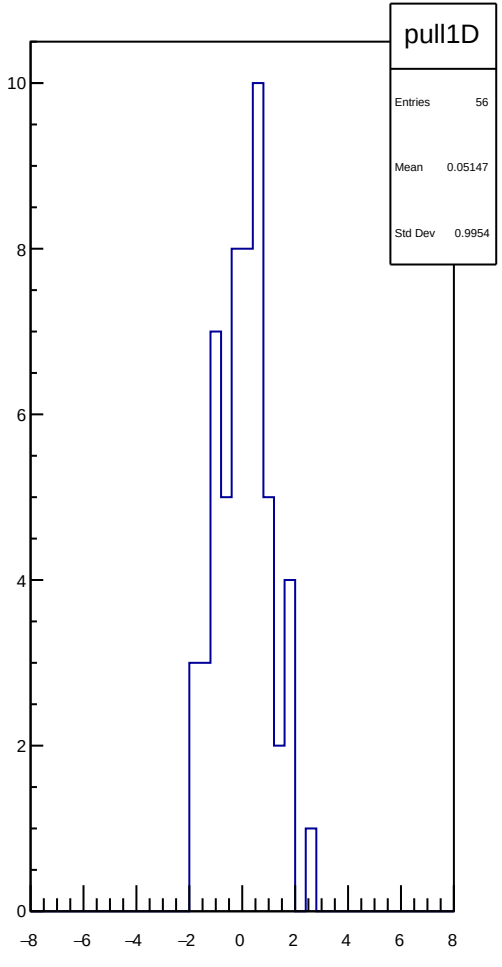

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 55
p0 0 ± 0.1336
1
0.8
0.6
0.4
0.2
0

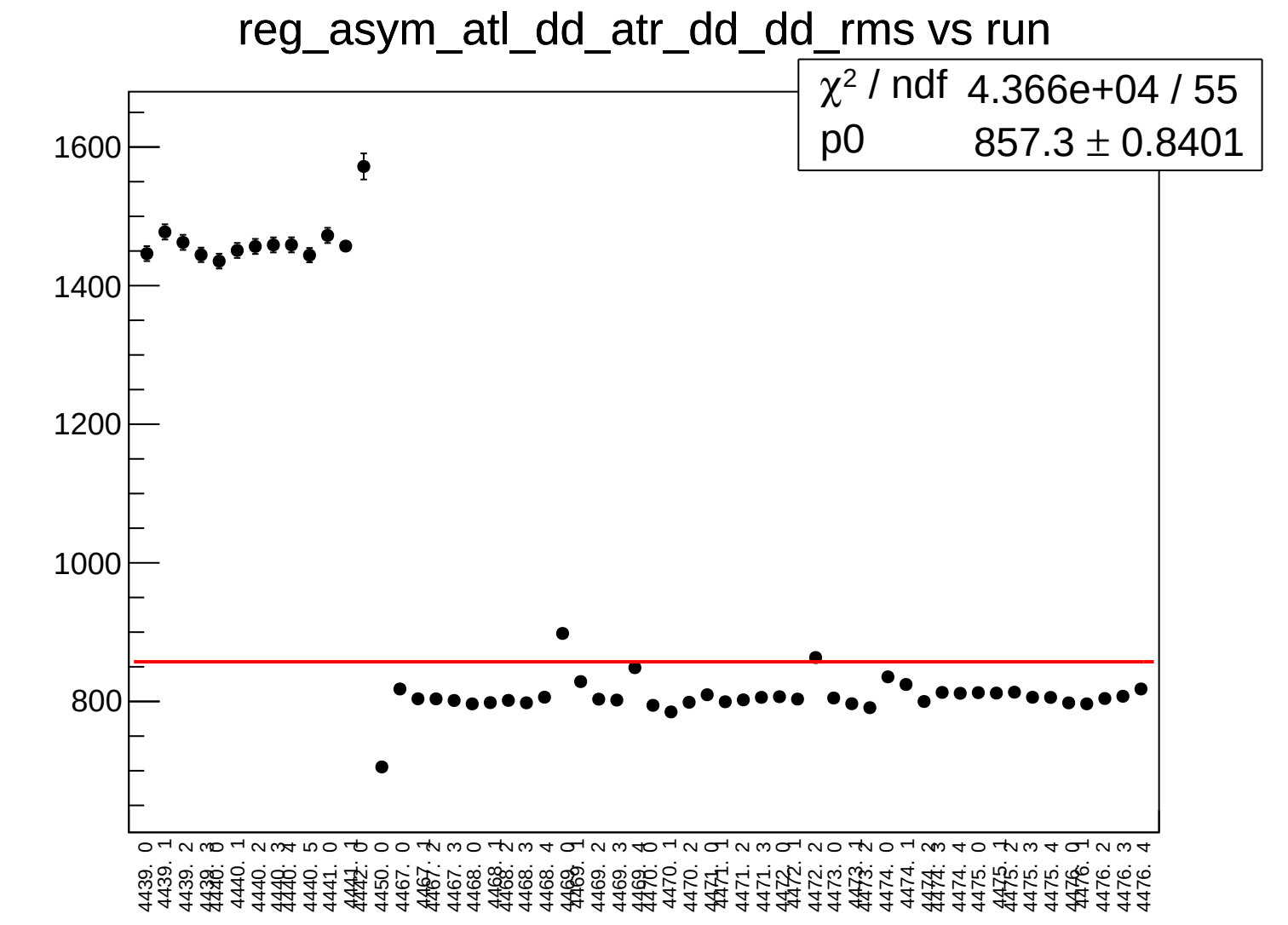

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 74.19 / 55
p0 −62.02 ± 311.9
pull
Entries 56
Mean 1033
Std Dev 1001

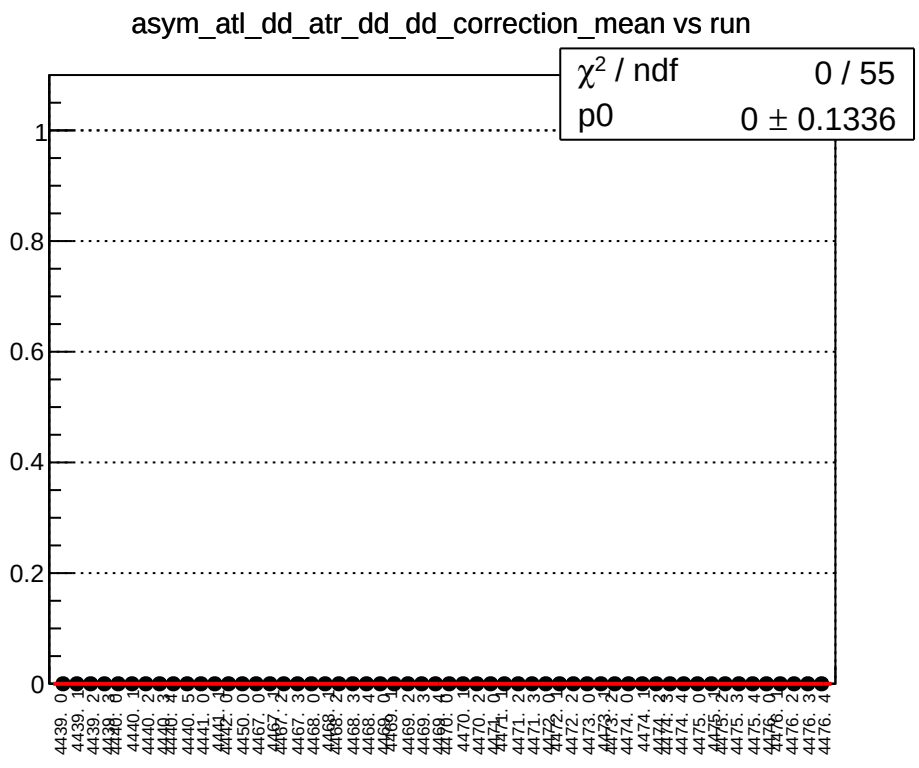

pull1D
Entries 56
Mean 0.003384
Std Dev 1.151

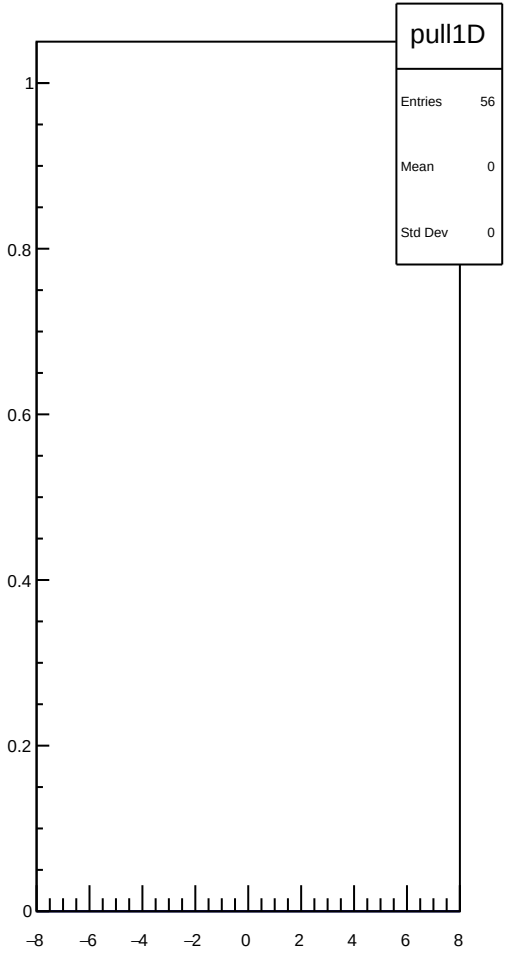

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 664.6 / 55
p0 229.7 ± 0.2206
255
250
245
240
235
230
225
220

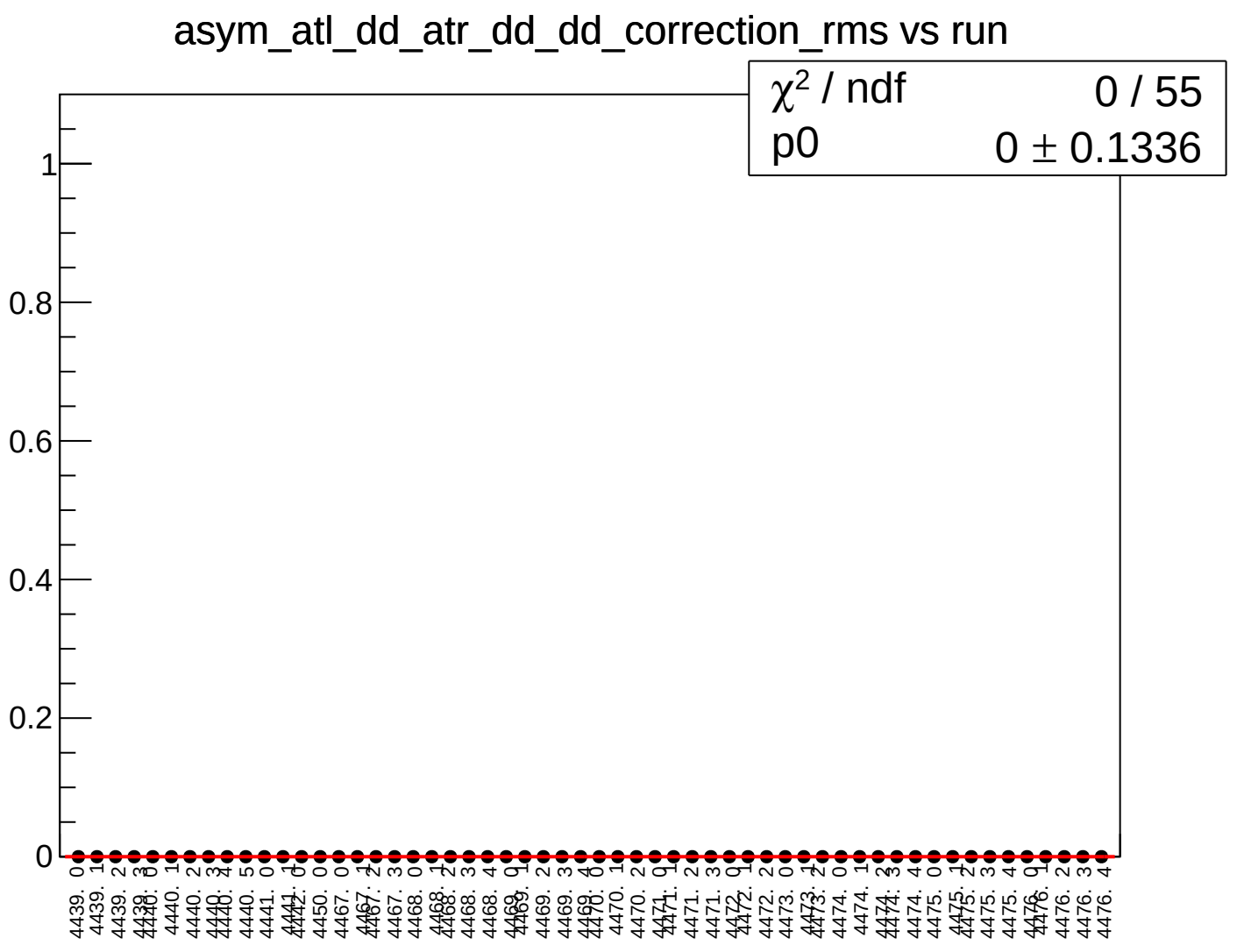

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 55.63 / 55
p0 1605 ± 1188
pull
Entries 56
Mean −43.25
Std Dev 71.3

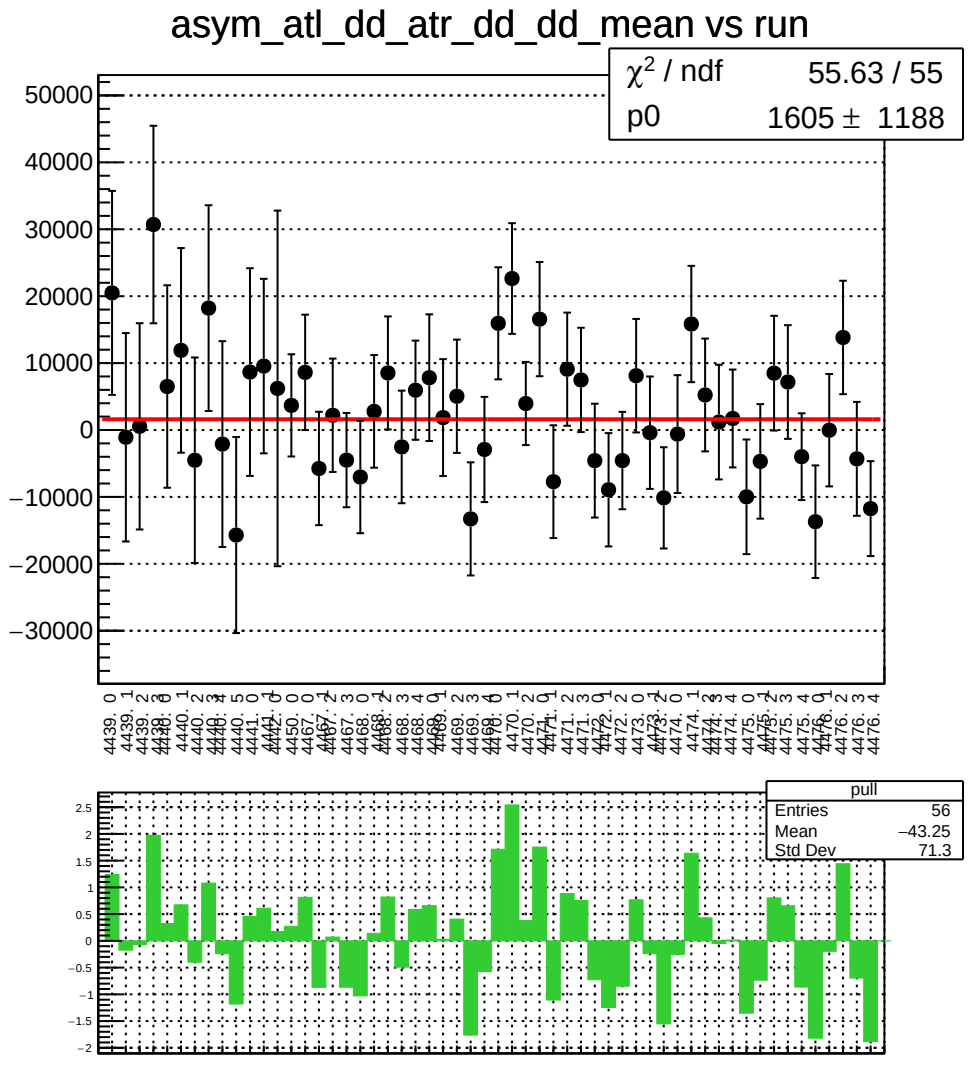

pull1D
Entries 56
Mean 0.05147
Std Dev 0.9954

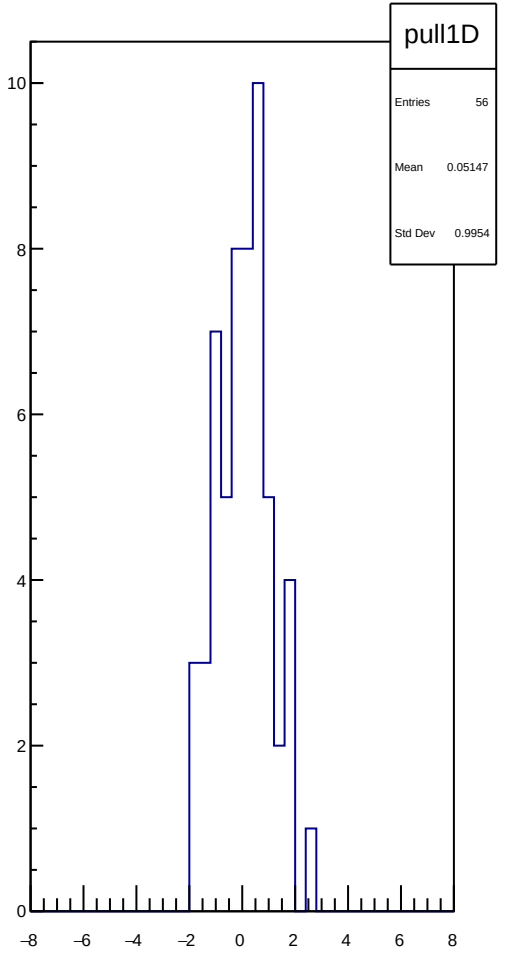

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 4.366e+04 / 55
p0 857.3 ± 0.8401
1600
1400
1200
1000
800

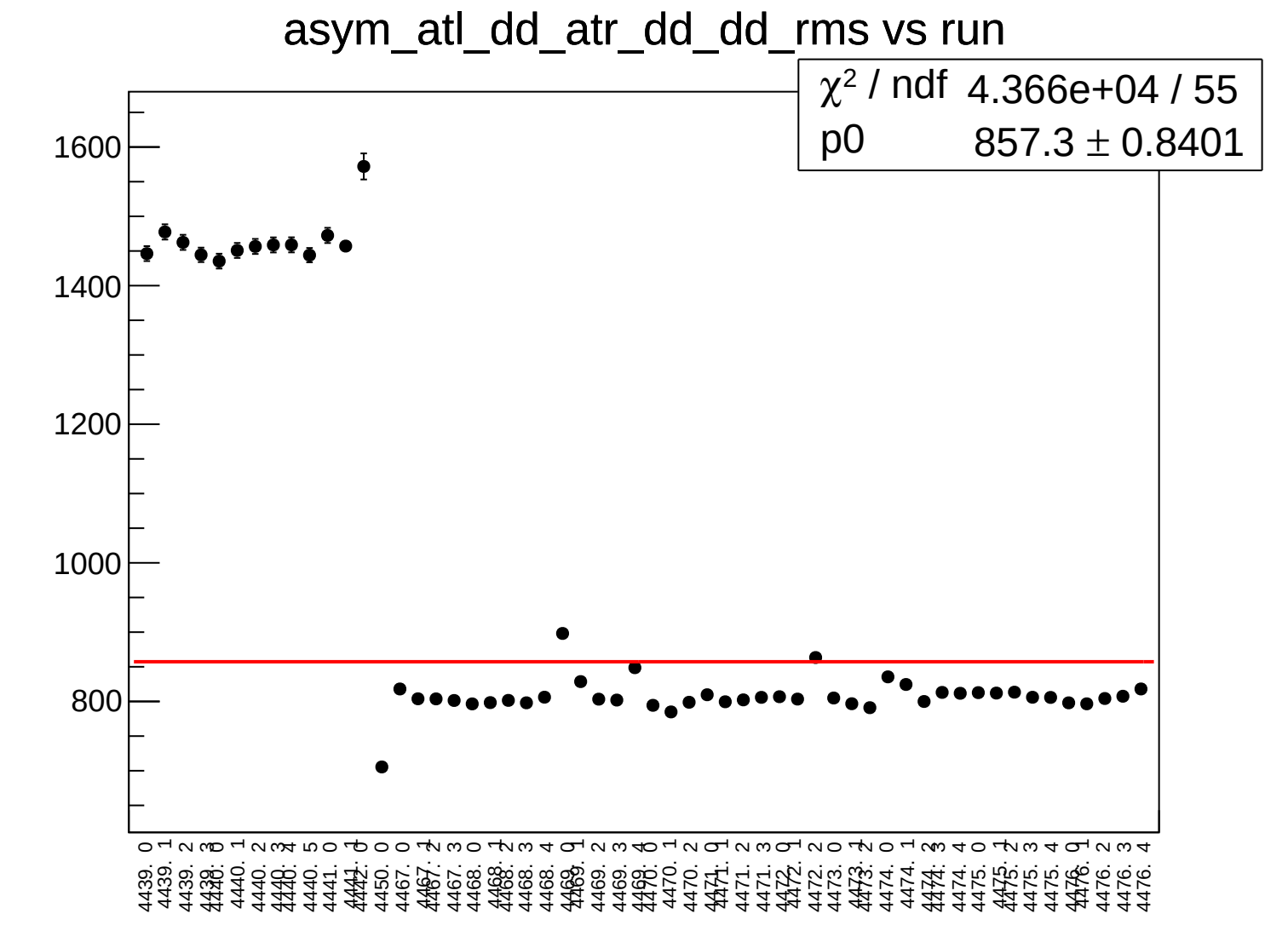

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 55
p0 0 ± 0.1336
1
0.8
0.6
0.4
0.2
0

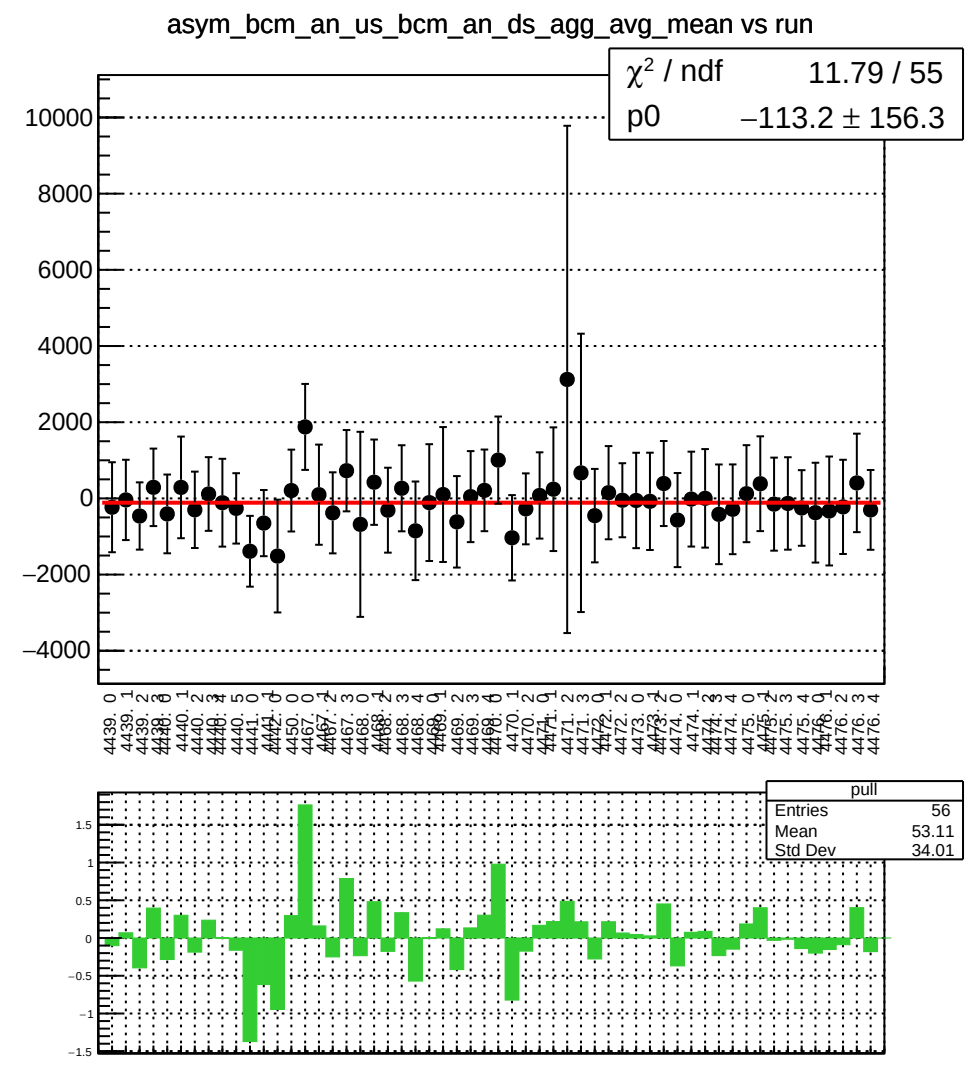

pull1D
Entries 56
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

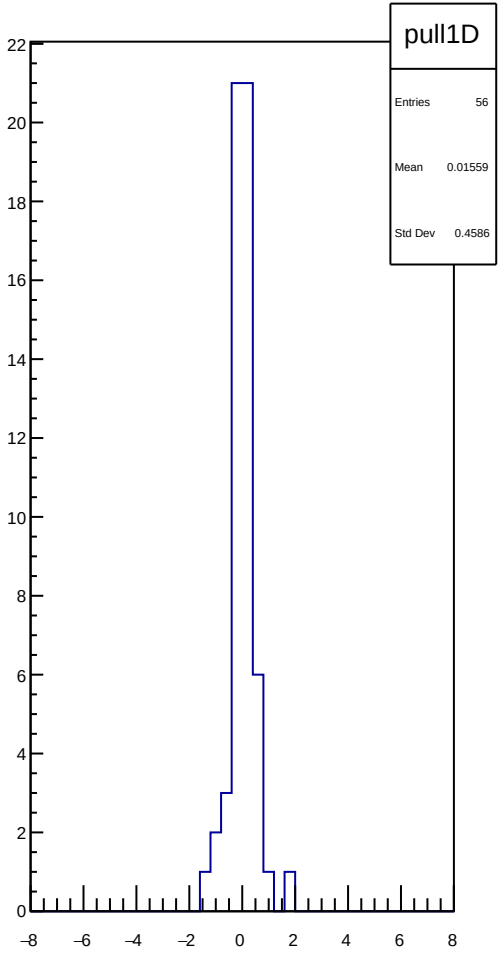

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 55
p0 0 ± 0.1336
1
0.8
0.6
0.4
0.2
0

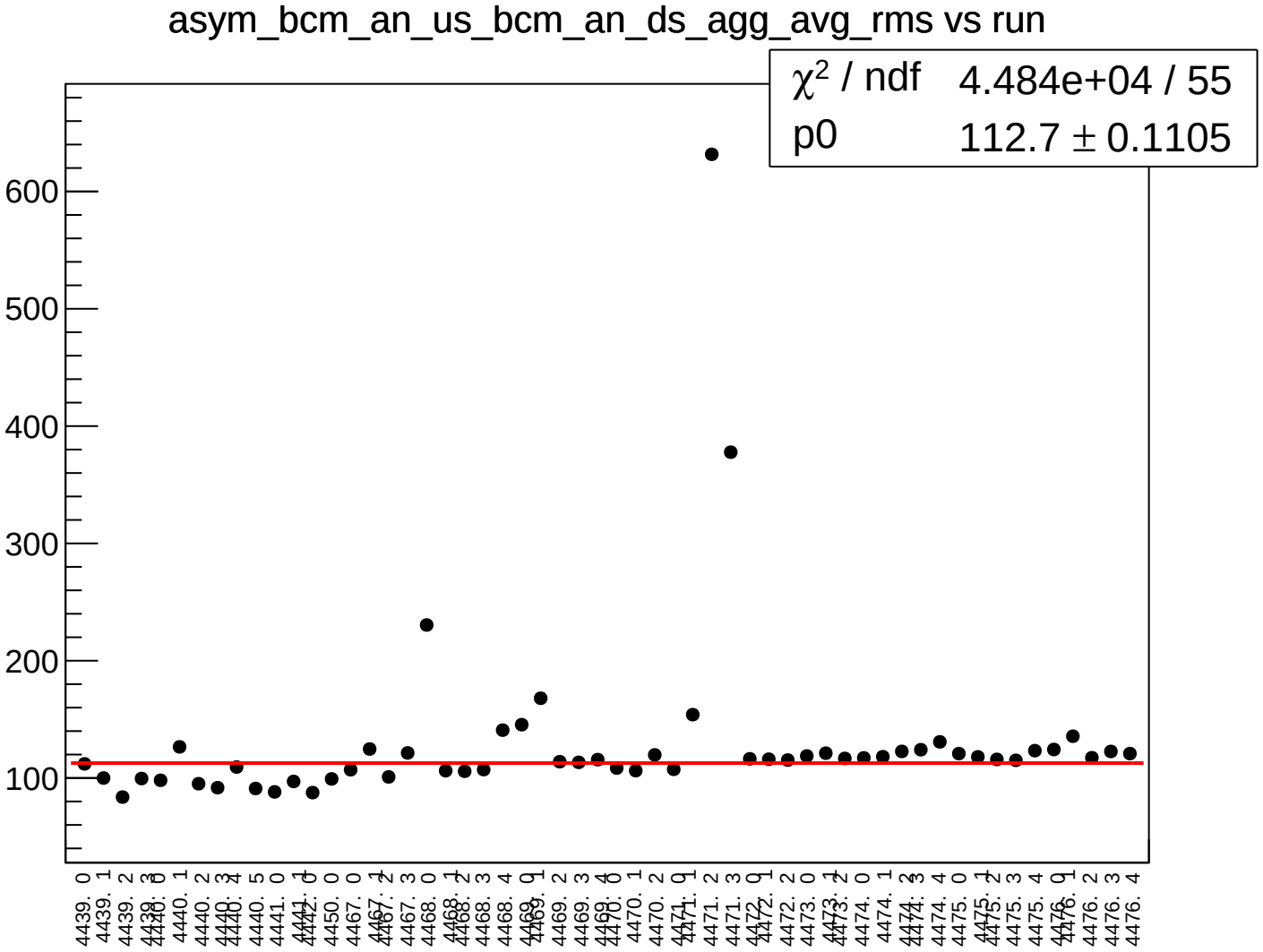

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 55.63 / 55
p0 1605 ± 1188
pull
Entries 56
Mean −43.25
Std Dev 71.3

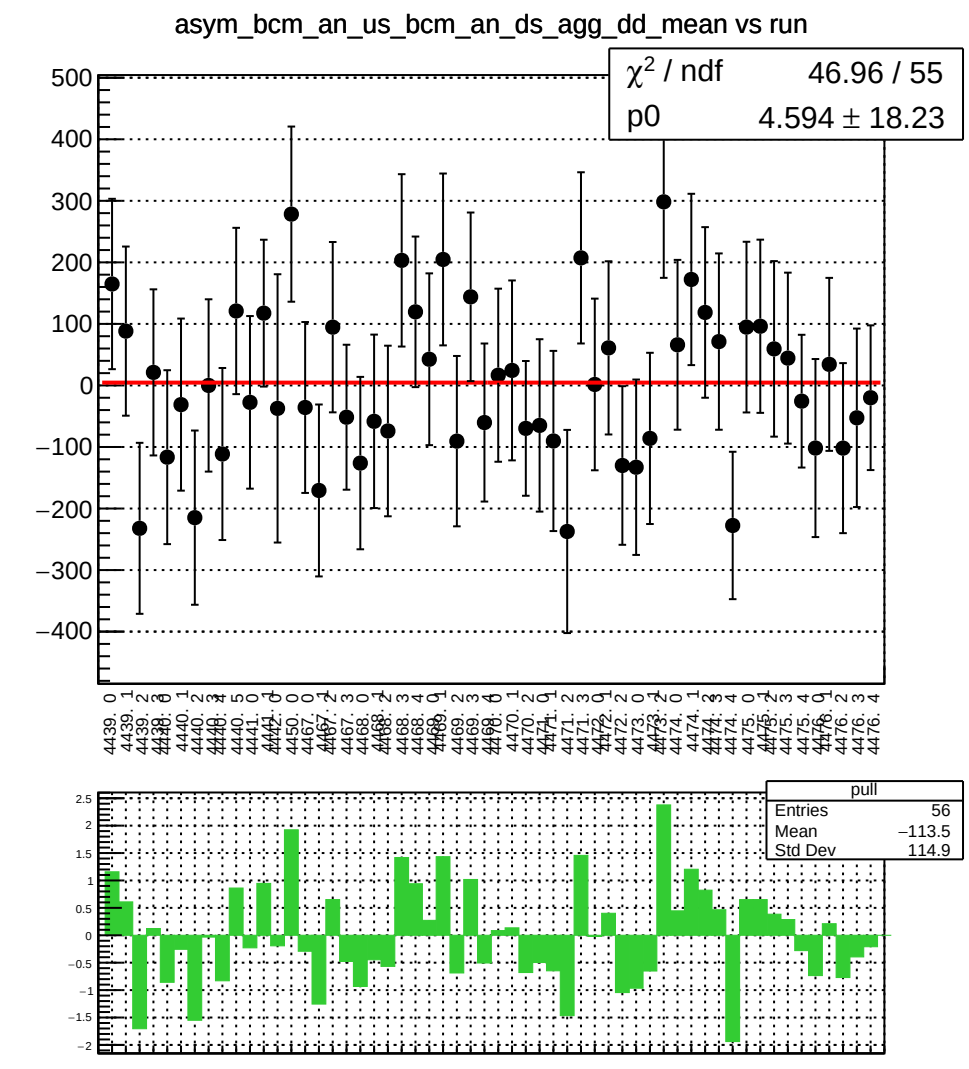

pull1D
Entries 56
Mean 0.05147
Std Dev 0.9954

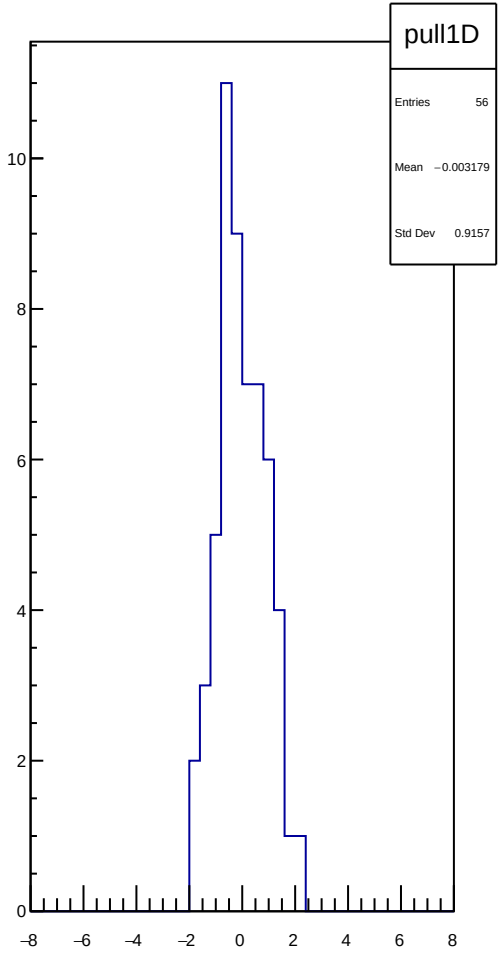

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 4.366e+04 / 55
p0 857.3 ± 0.8401
1600
1400
1200
1000
800

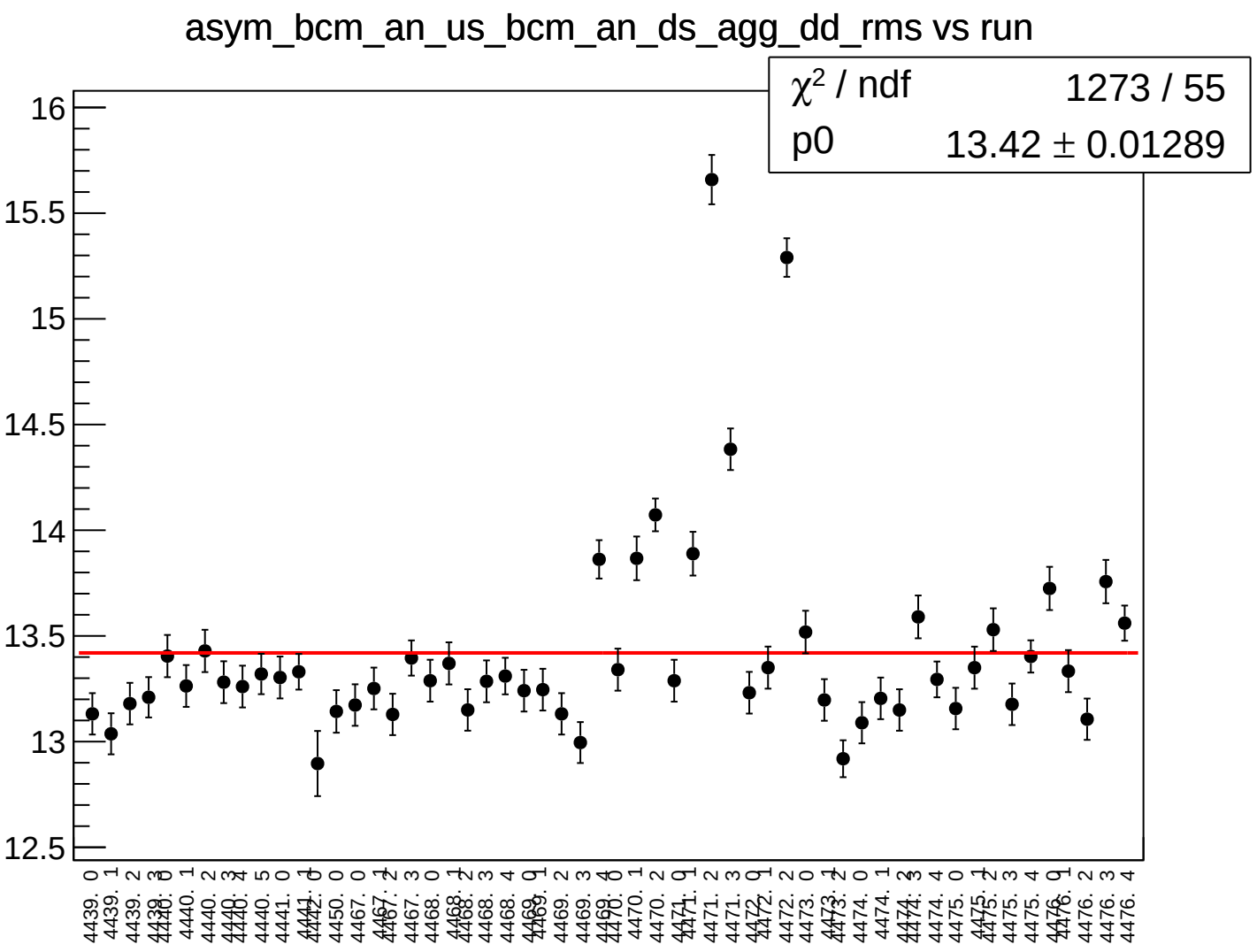

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.79 / 55
p0 −113.2 ± 156.3
pull
Entries 56
Mean 53.11
Std Dev 34.01


pull1D
Entries 56
Mean 0.01559
Std Dev 0.4586


asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.484e+04 / 55
p0 112.7 ± 0.1105
600
500
400
300
200
100


asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 46.96 / 55
p0 4.594 ± 18.23
pull
Entries 56
Mean −113.5
Std Dev 114.9


pull1D
Entries 56
Mean −0.003179
Std Dev 0.9157


asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1273 / 55
p0 13.42 ± 0.01289
16
15.5
15
14.5
14
13.5
13
12.5
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
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4471. 1
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4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
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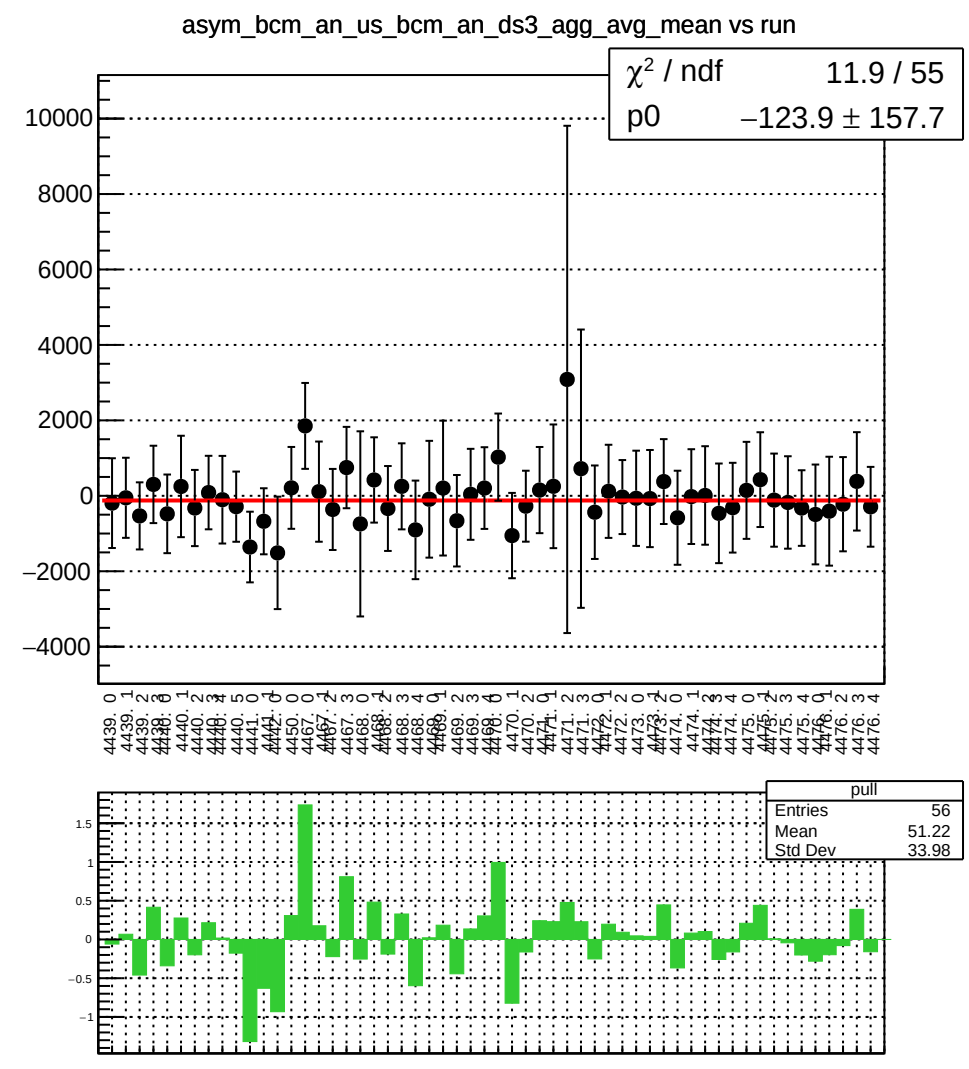
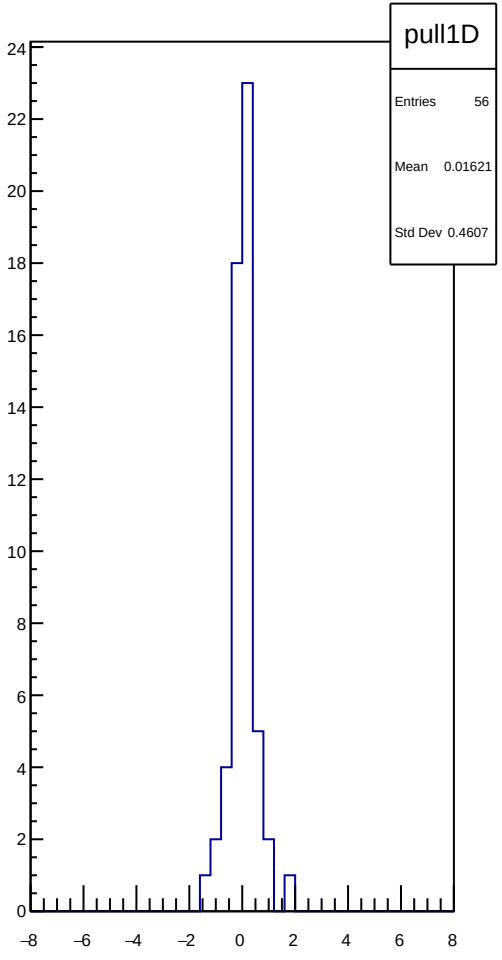
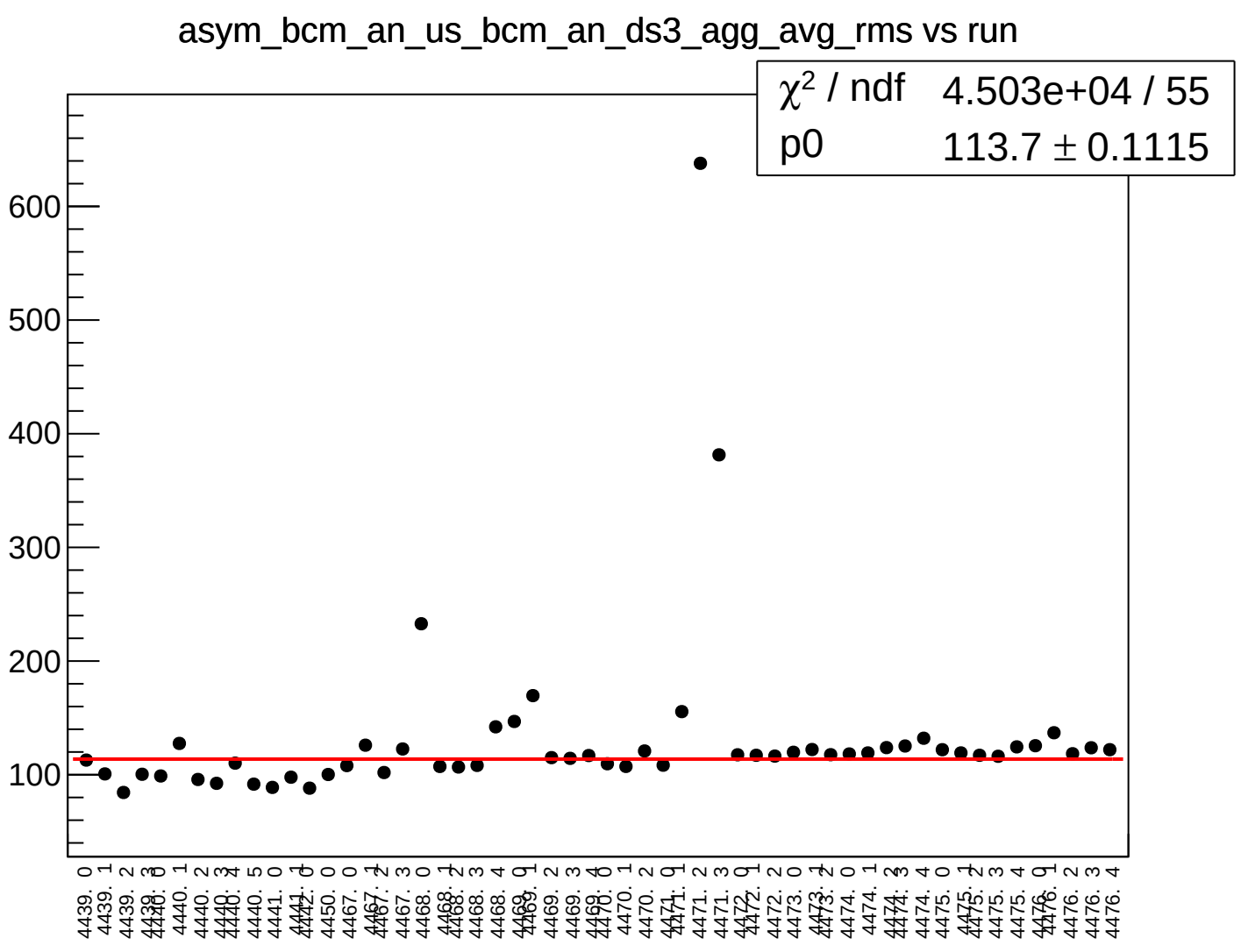
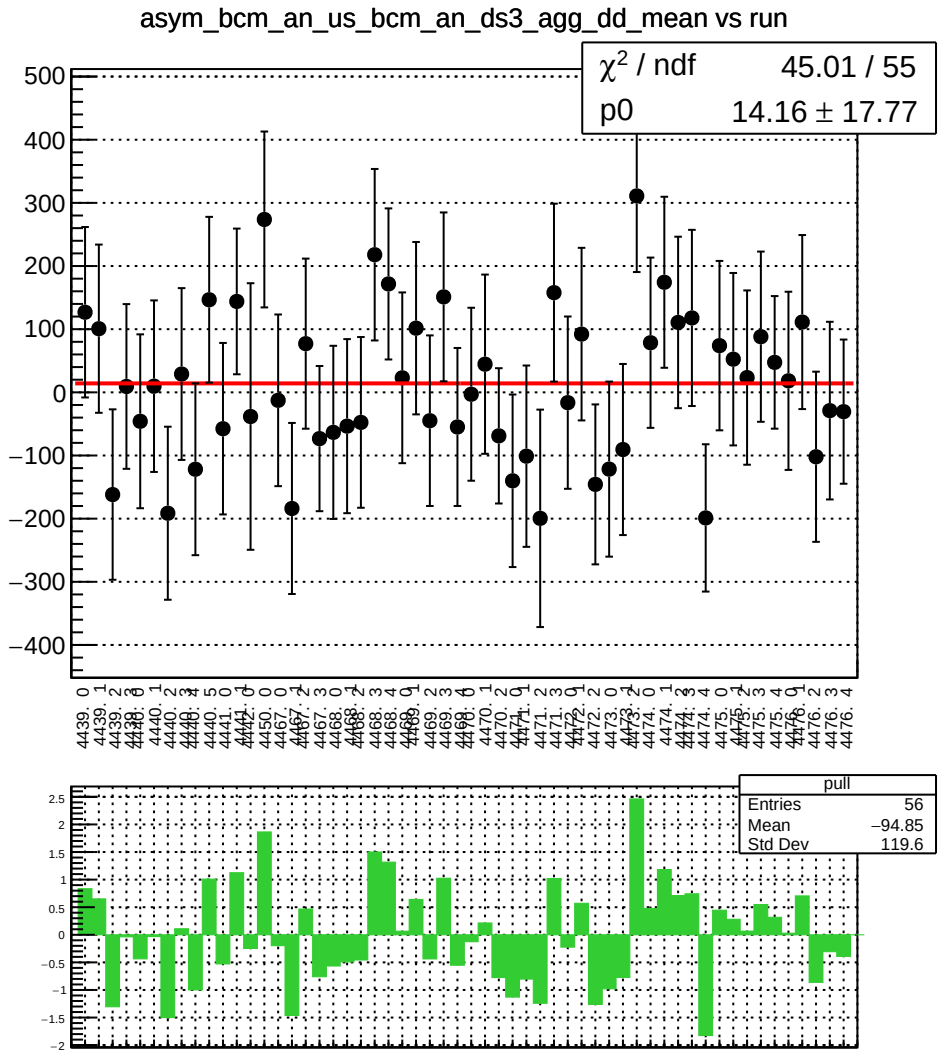
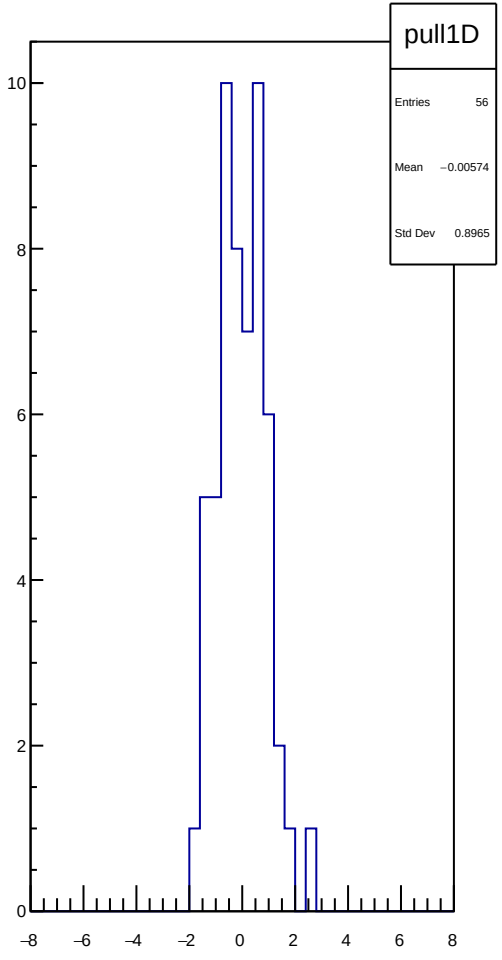
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

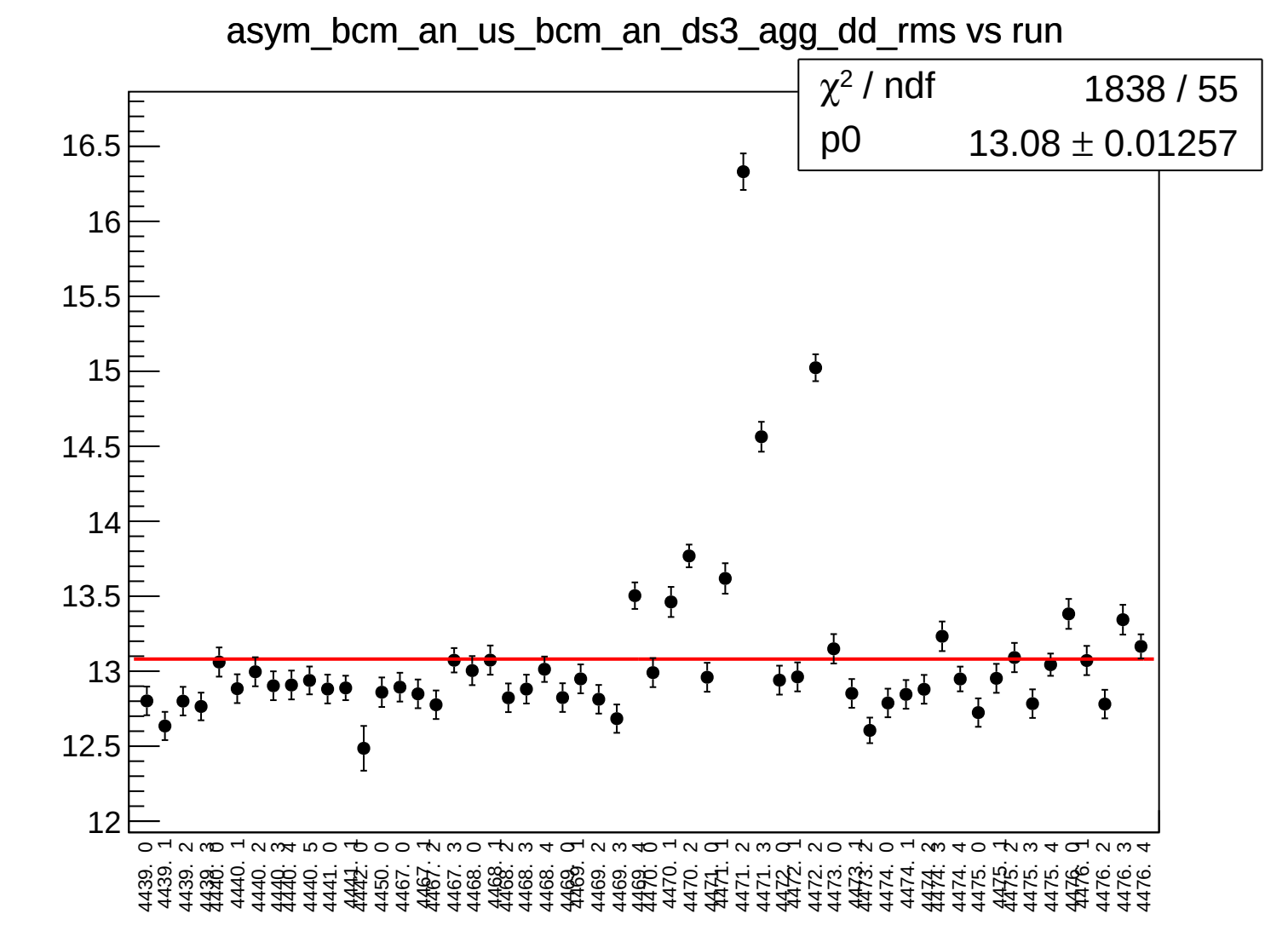

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 11.9 / 55
p0 −123.9 ± 157.7
pull
Entries 56
Mean 51.22
Std Dev 33.98

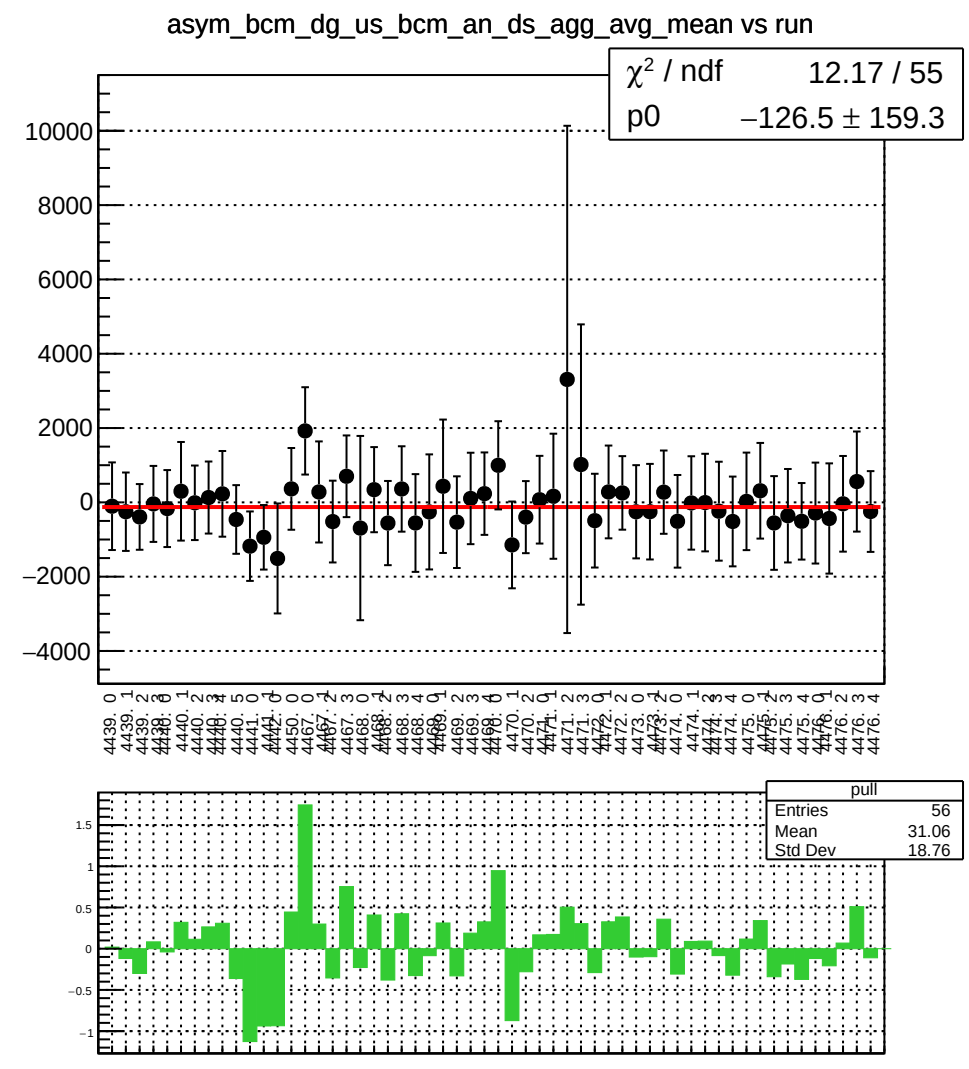

pull1D
Entries 56
Mean 0.01621
Std Dev 0.4607

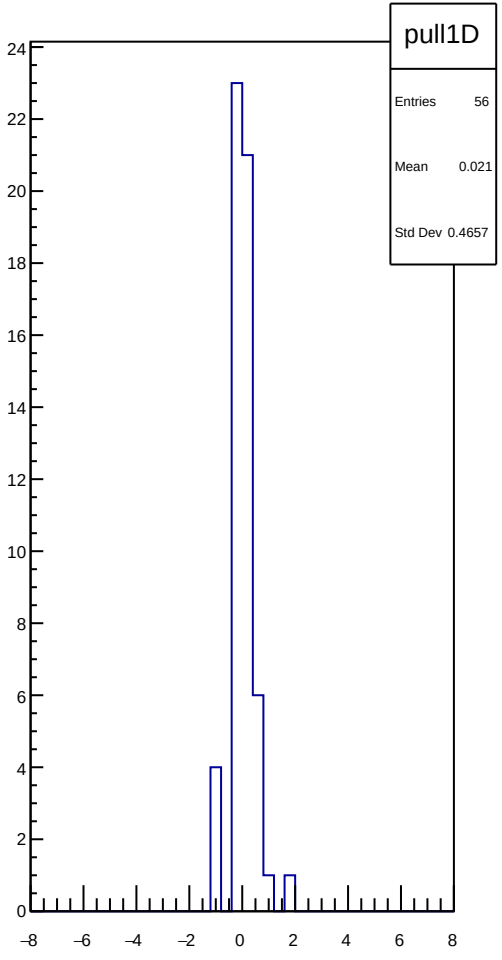

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 4.503e+04 / 55
p0 113.7 ± 0.1115
600
500
400
300
200
100

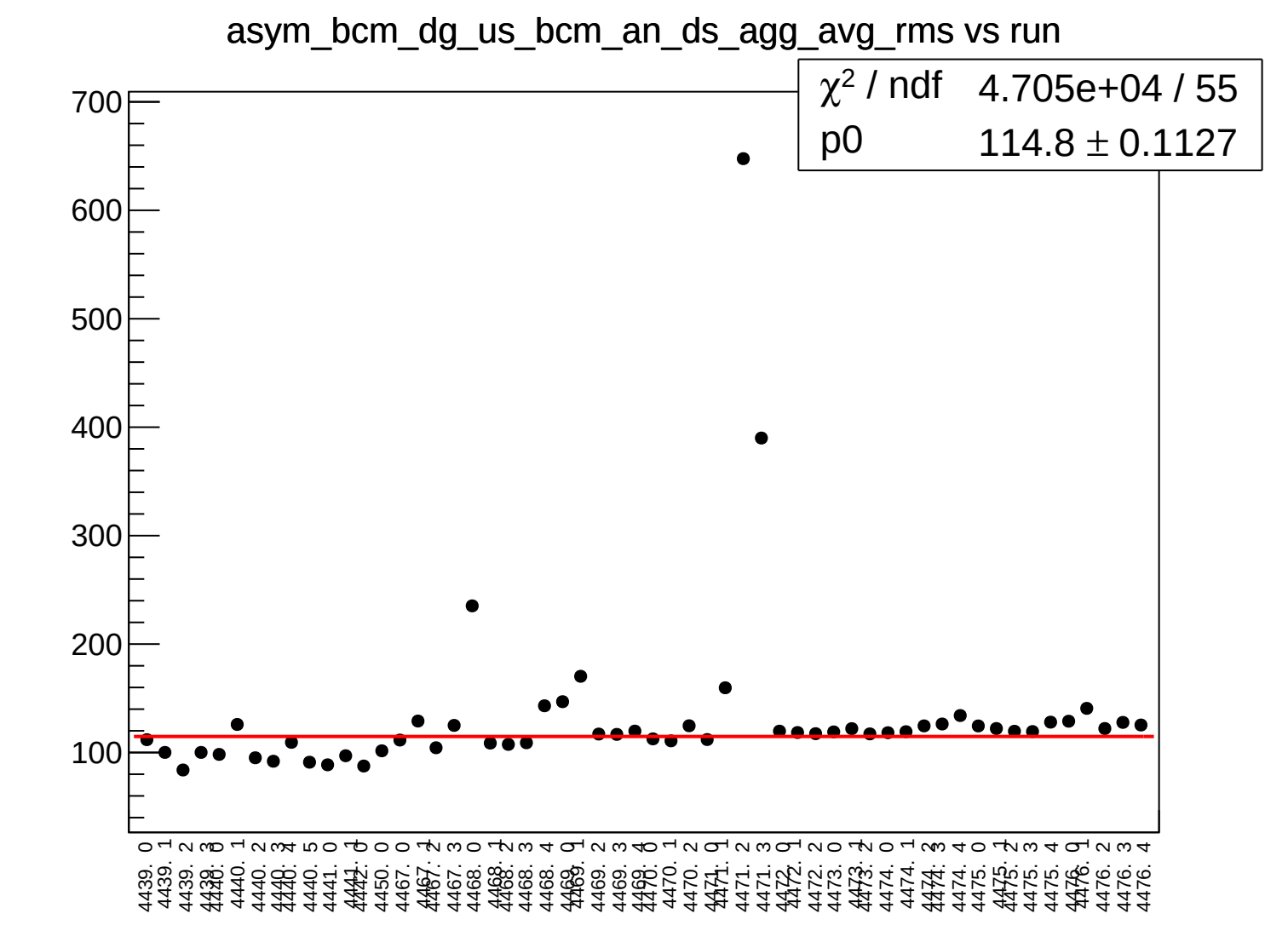

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 45.01 / 55
p0 14.16 ± 17.77
pull
Entries 56
Mean −94.85
Std Dev 119.6

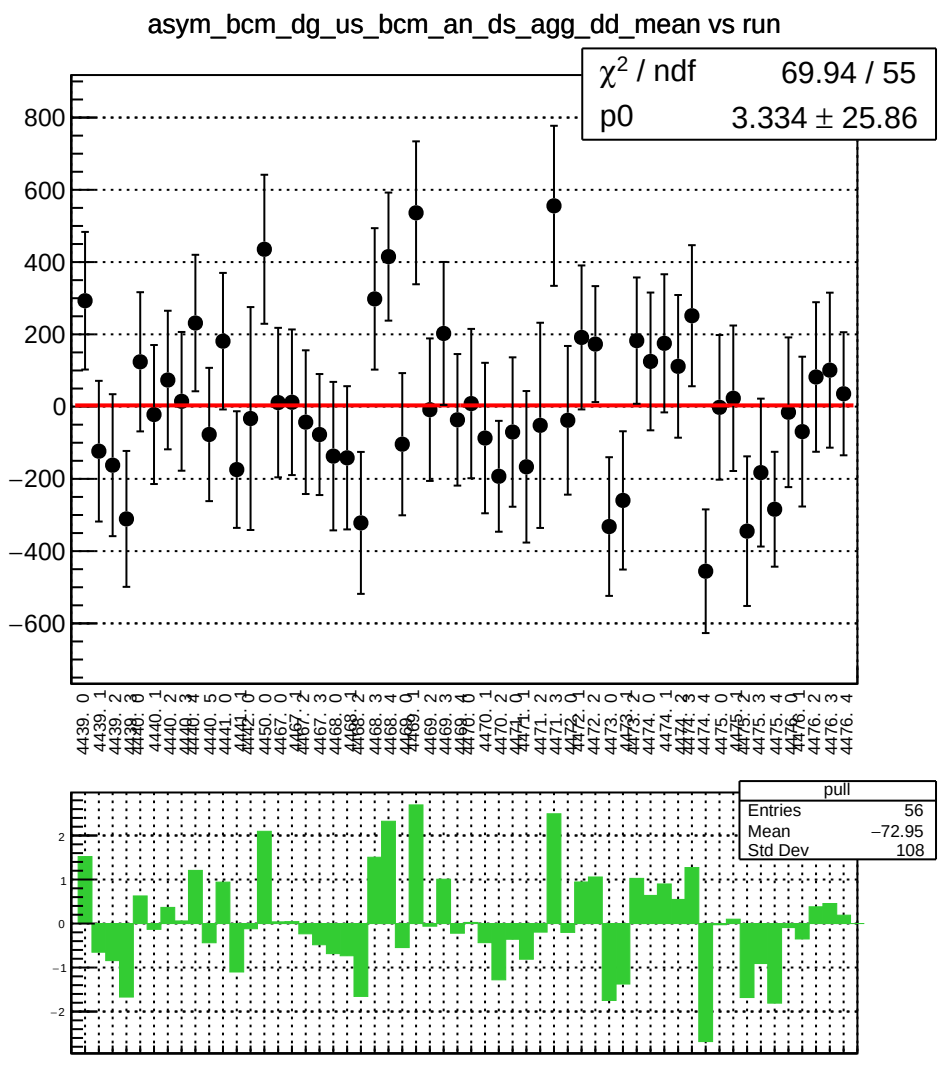

pull1D
Entries 56
Mean −0.00574
Std Dev 0.8965

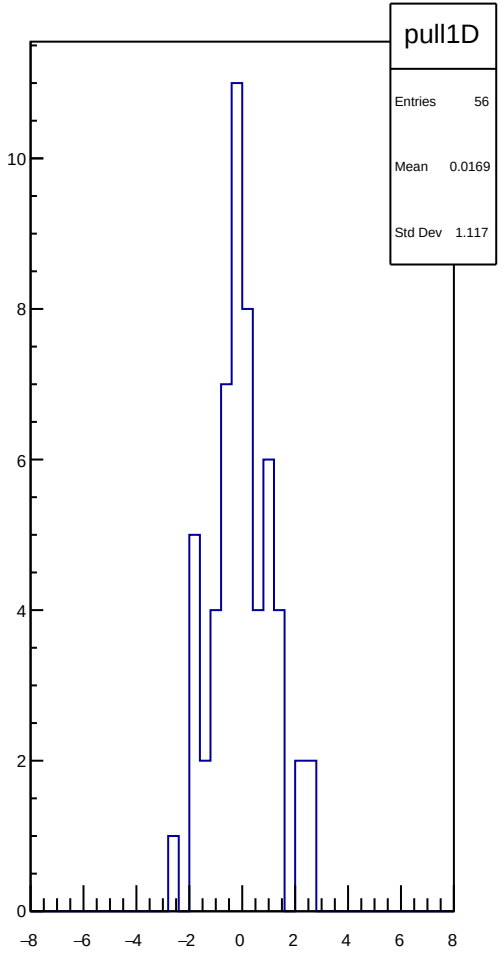

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1838 / 55
p0 13.08 ± 0.01257
16.5
16
15.5
15
14.5
14
13.5
13
12.5
12

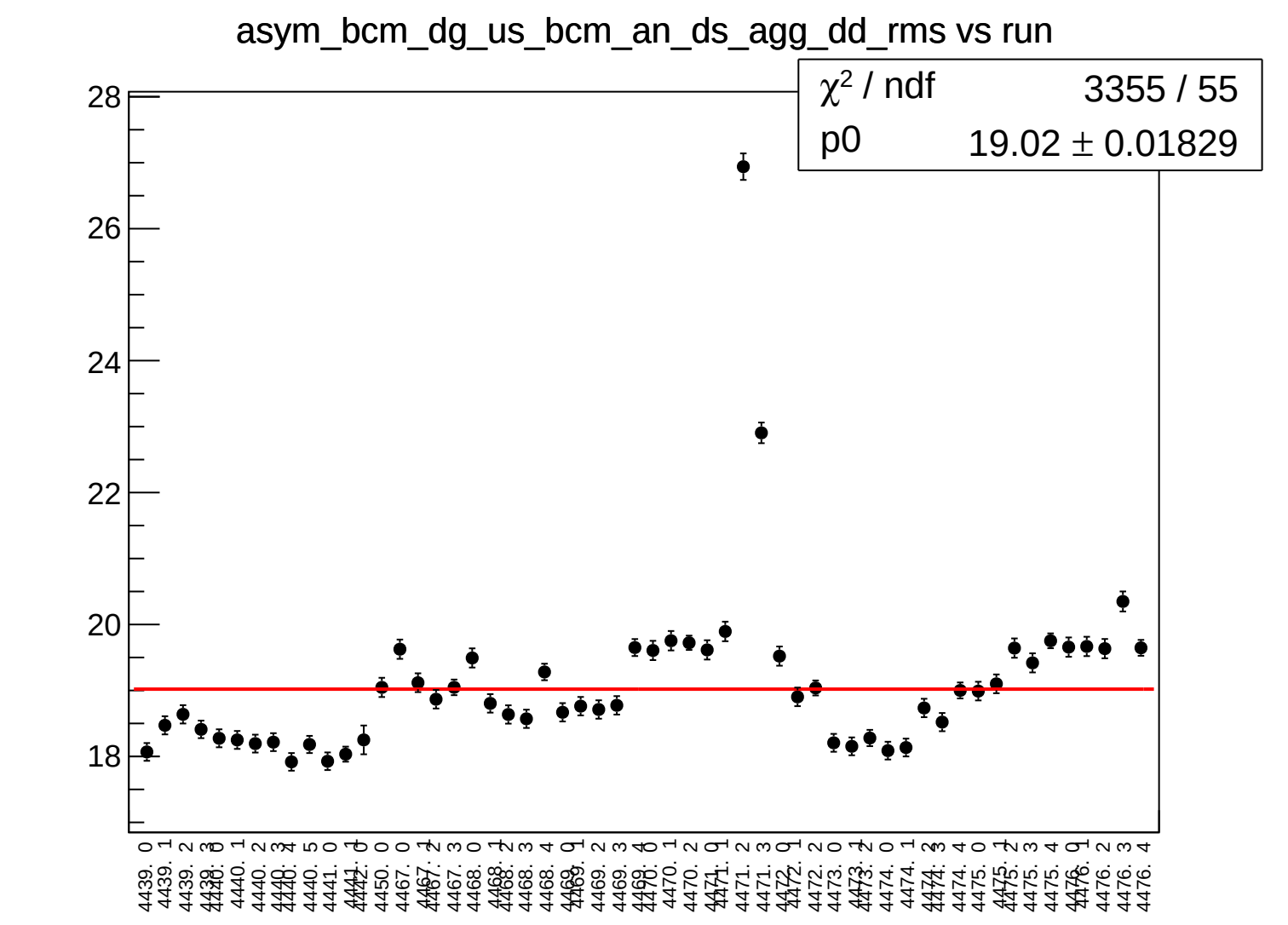

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.17 / 55
p0 −126.5 ± 159.3
pull
Entries 56
Mean 31.06
Std Dev 18.76

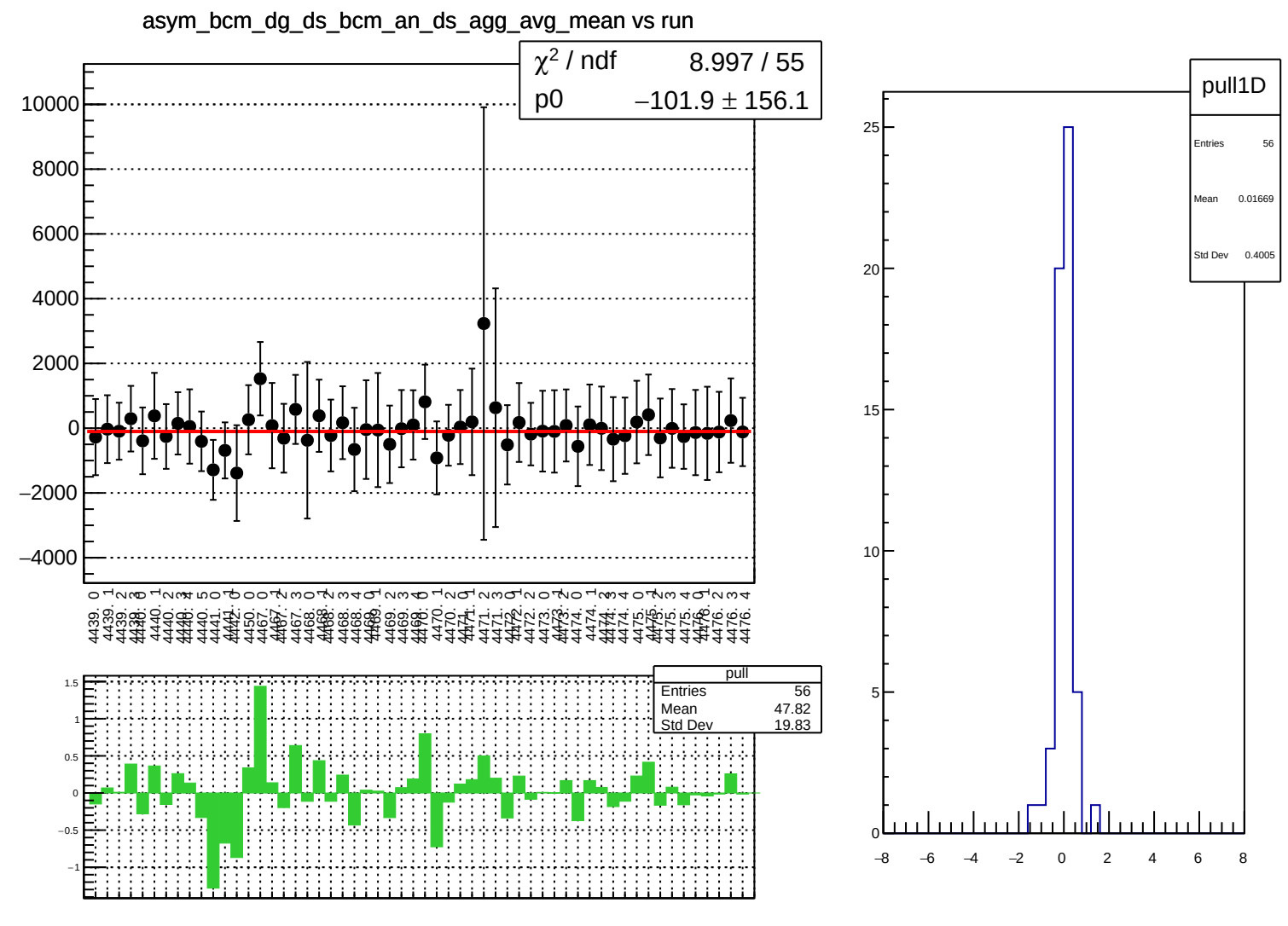

pull1D
Entries 56
Mean 0.021
Std Dev 0.4657

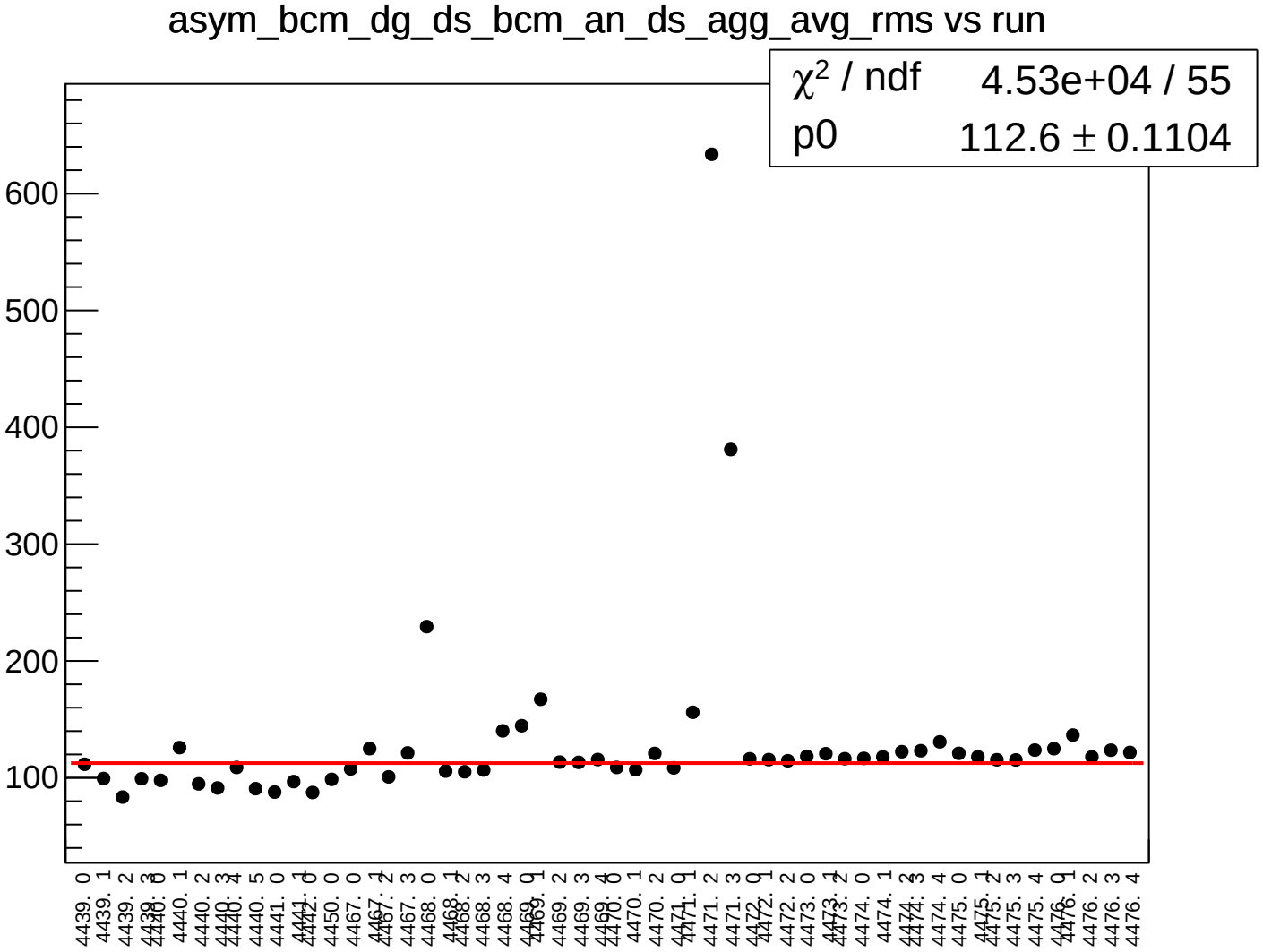

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.705e+04 / 55
p0 114.8 ± 0.1127
700
600
500
400
300
200
100

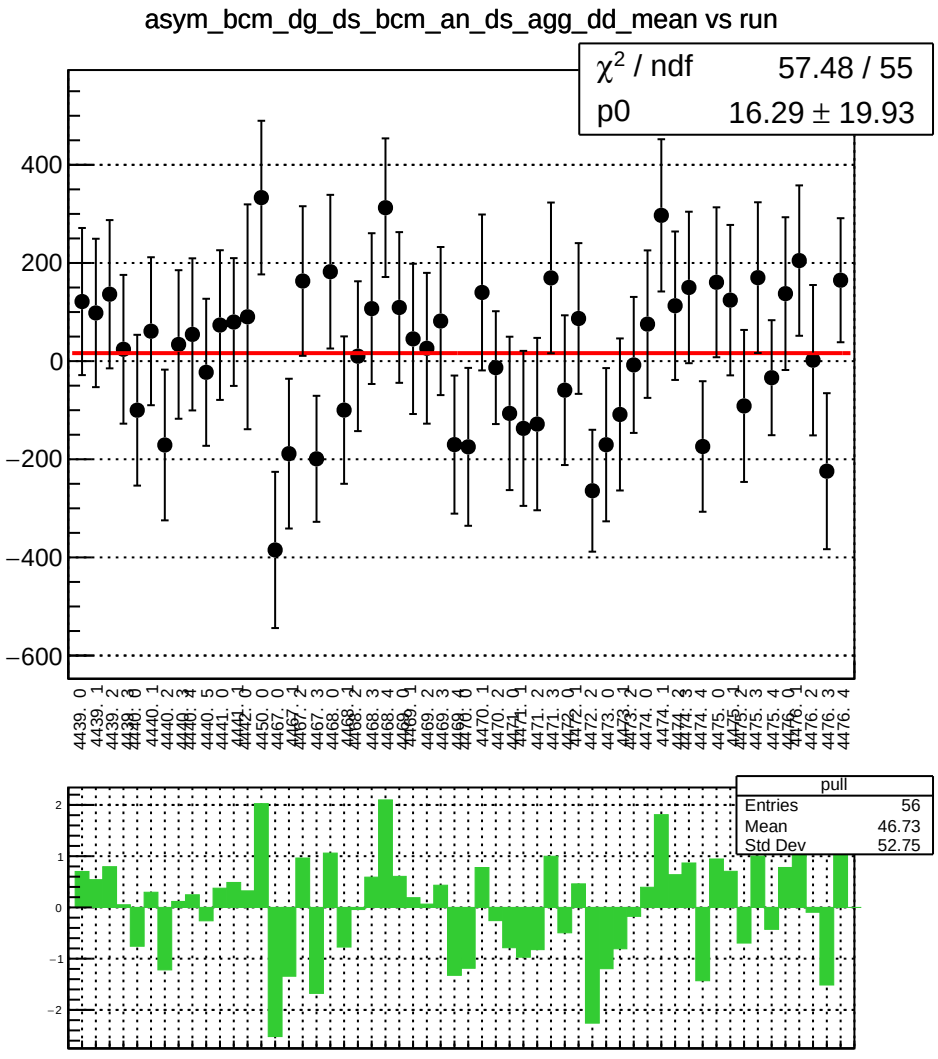

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 69.94 / 55
p0 3.334 ± 25.86
pull
Entries 56
Mean −72.95
Std Dev 108

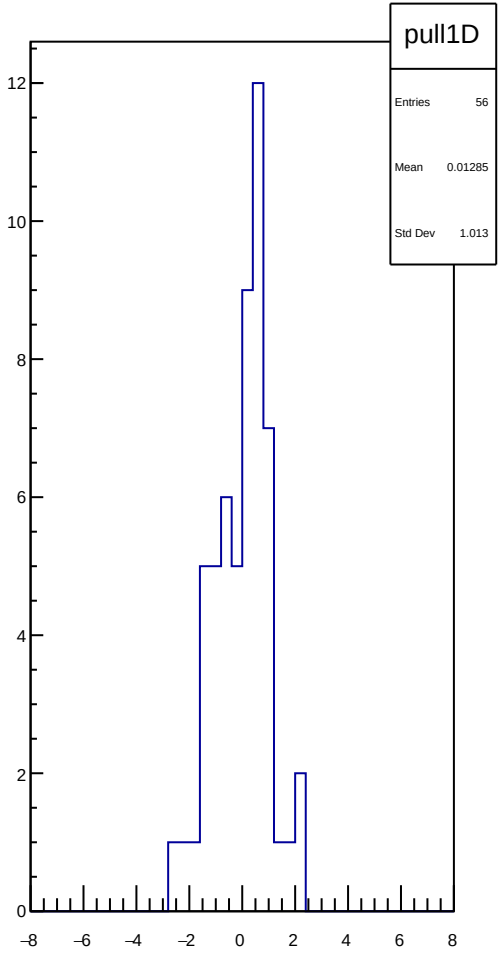

pull1D
Entries 56
Mean 0.0169
Std Dev 1.117

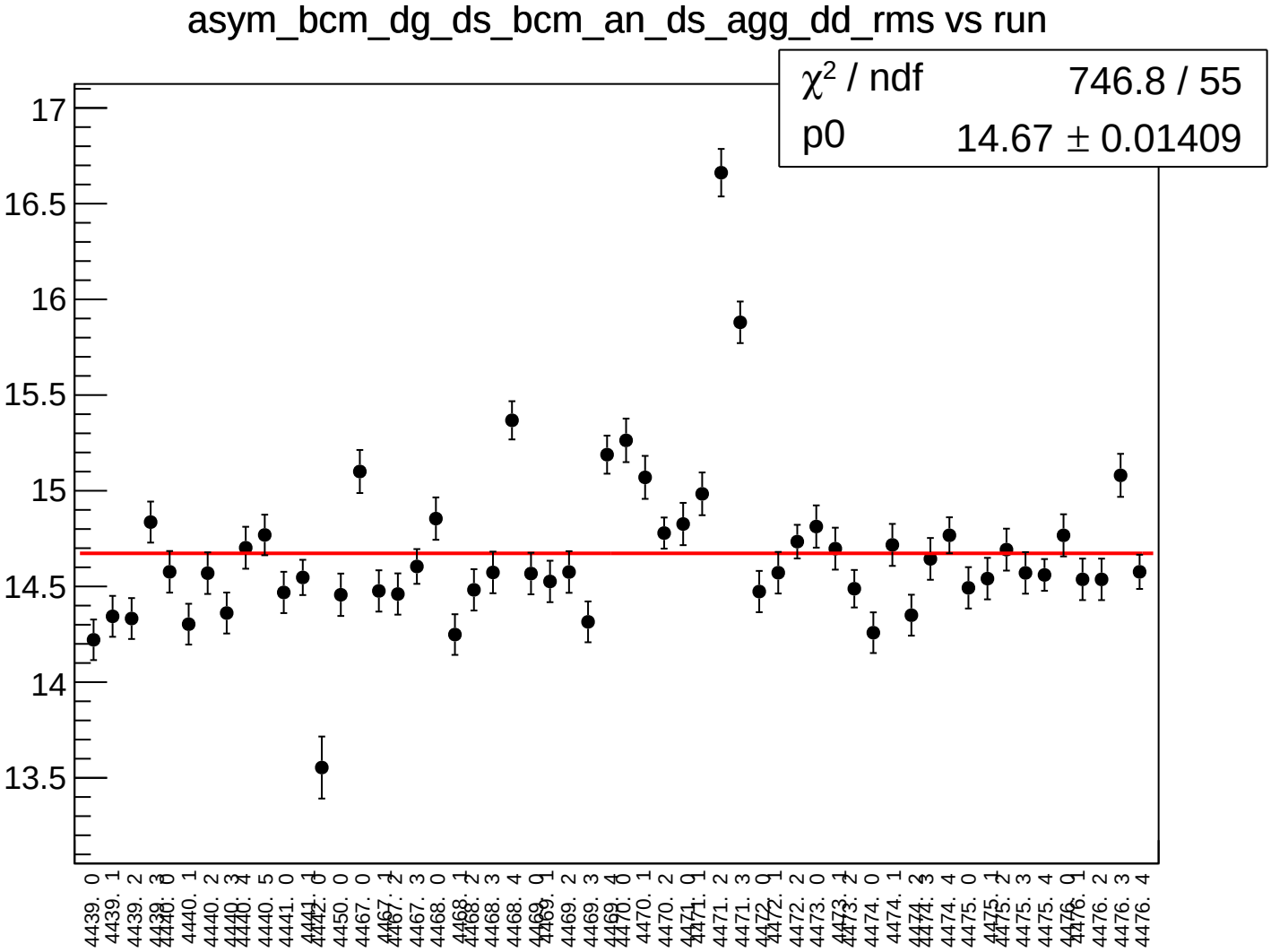

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3355 / 55
p0 19.02 ± 0.01829
28
26
24
22
20
18

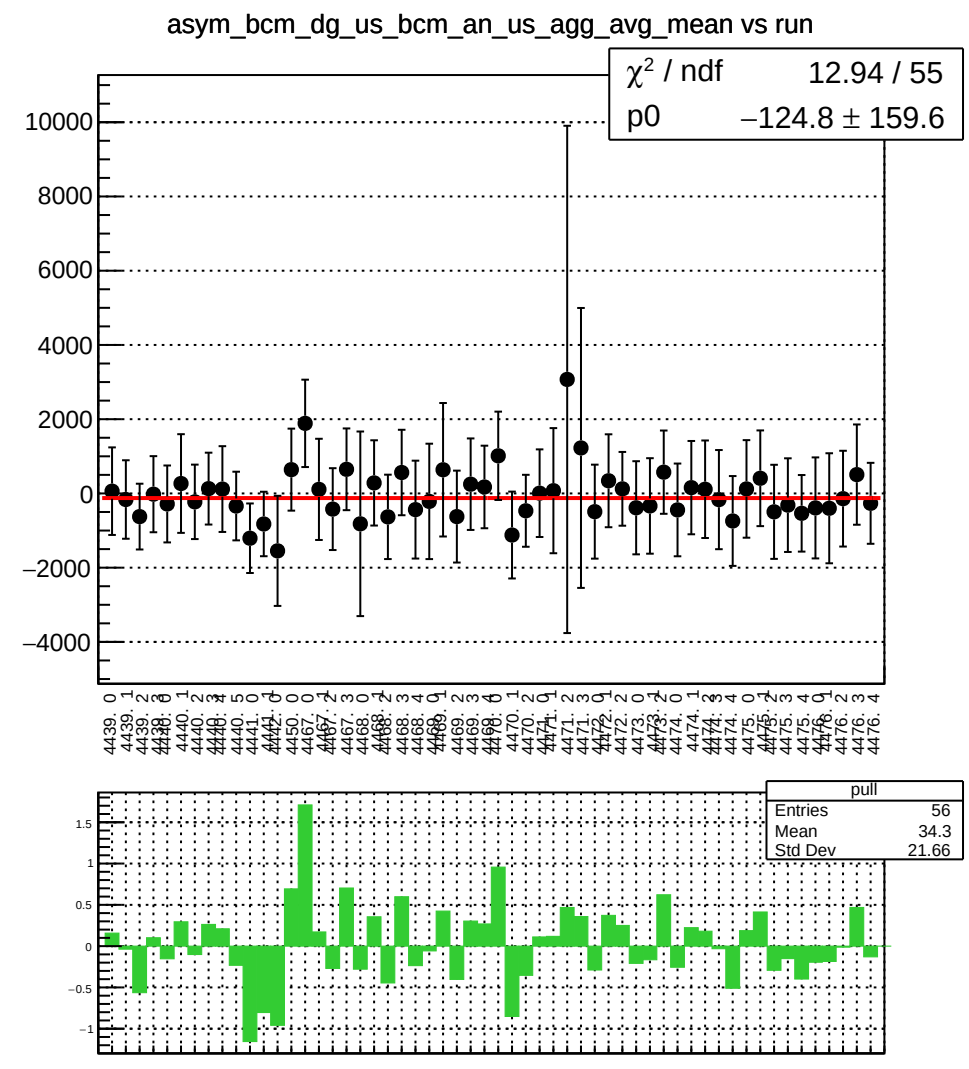

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.997 / 55
p0 −101.9 ± 156.1
pull
Entries 56
Mean 47.82
Std Dev 19.83
pull1D
Entries 56
Mean 0.01669
Std Dev 0.4005

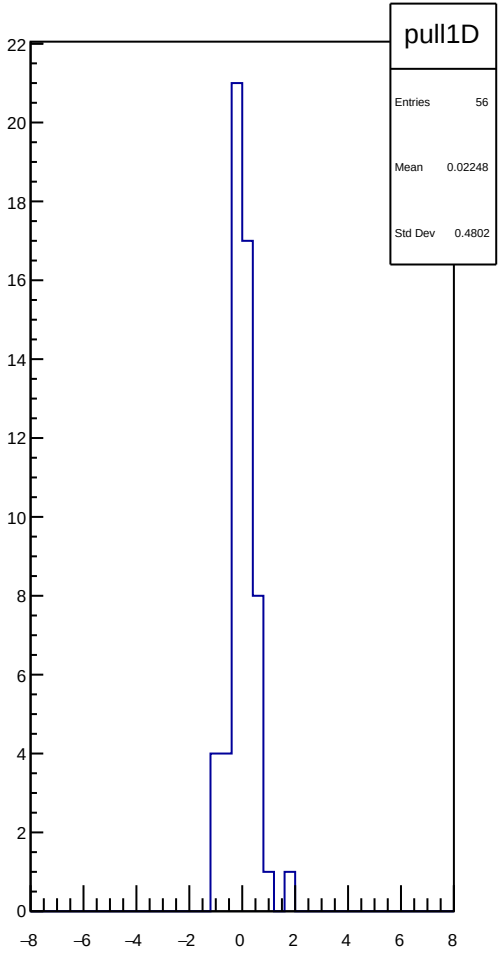

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.53e+04 / 55
p0 112.6 ± 0.1104
600
500
400
300
200
100

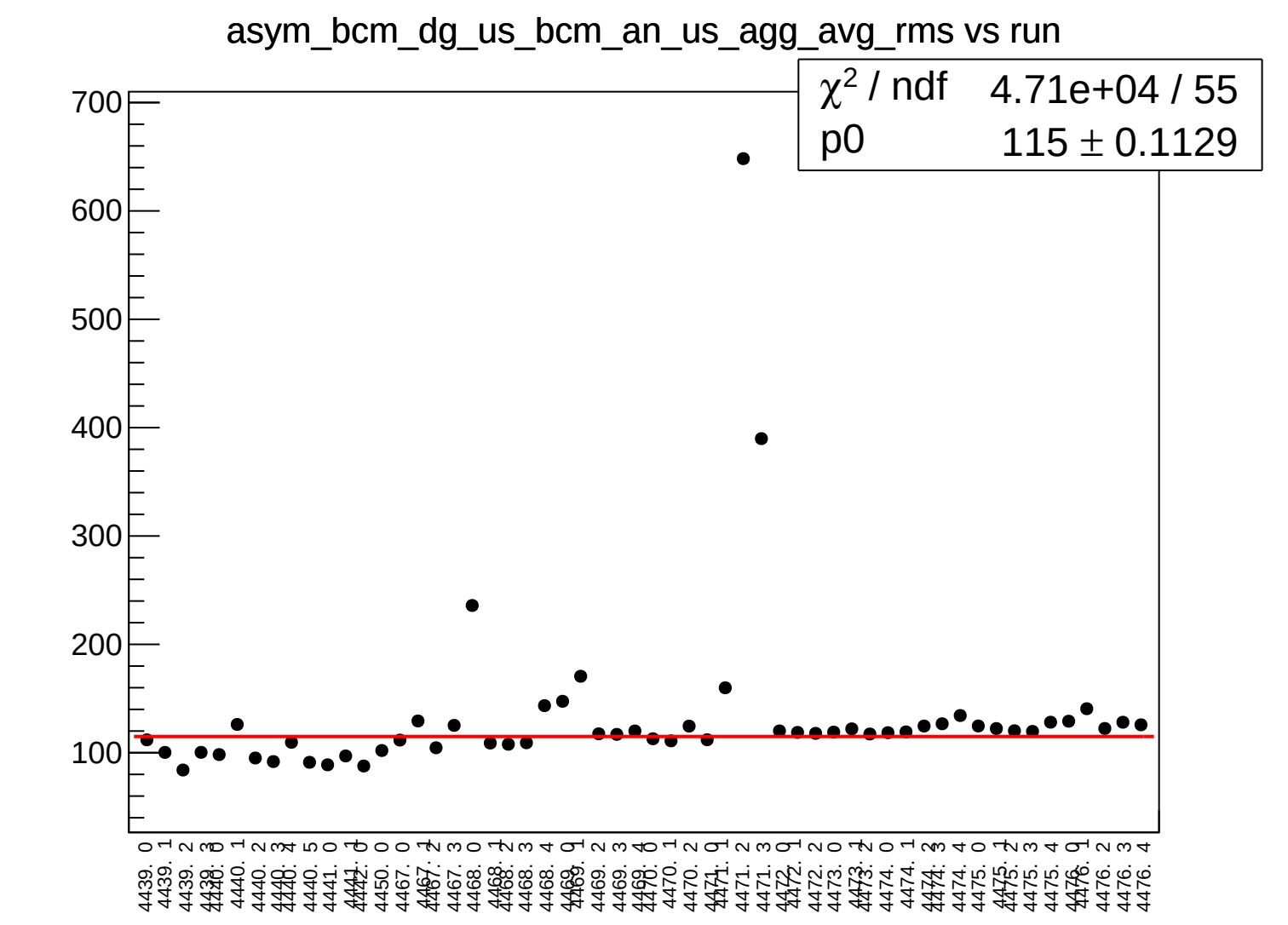

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 57.48 / 55
p0 16.29 ± 19.93
pull
Entries 56
Mean 46.73
Std Dev 52.75

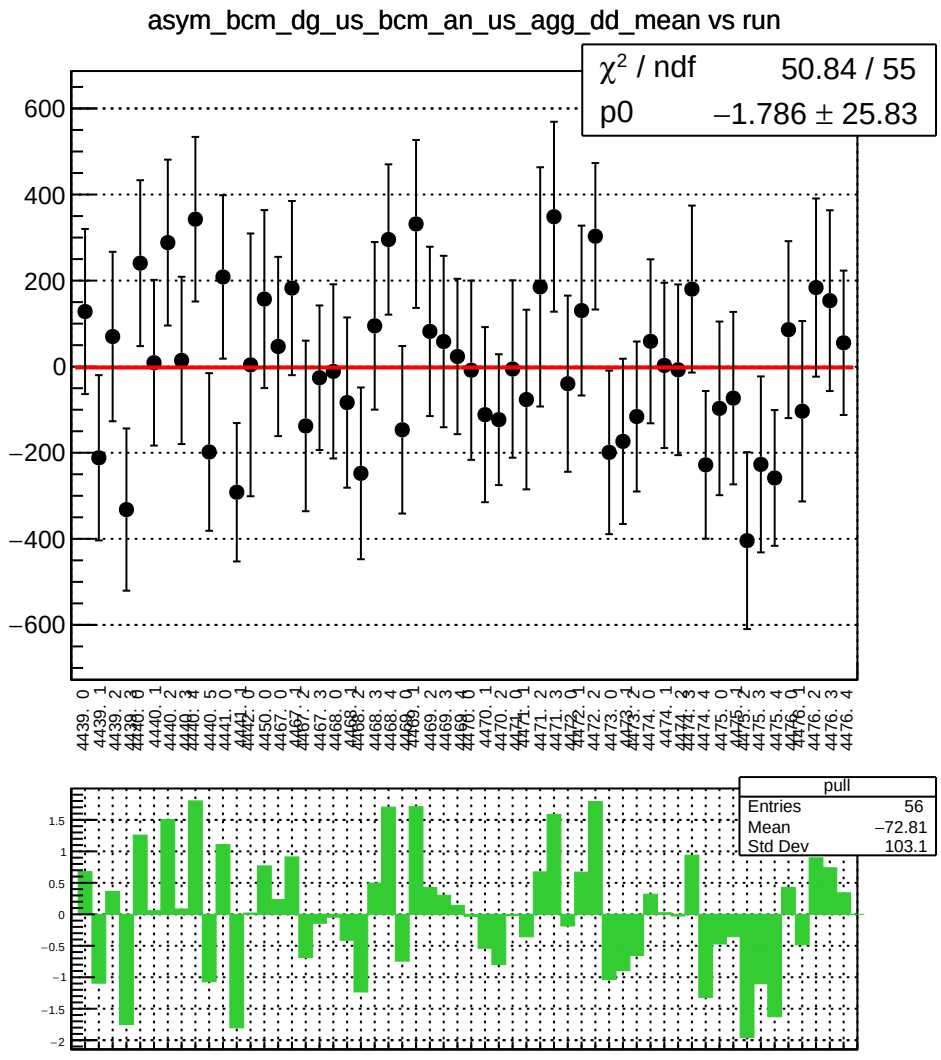

pull1D
Entries 56
Mean 0.01285
Std Dev 1.013

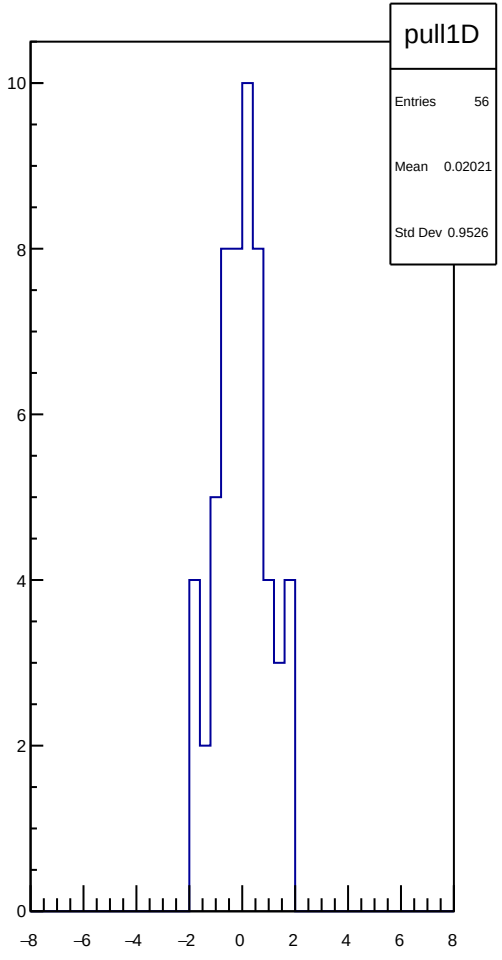

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 746.8 / 55
p0 14.67 ± 0.01409
17
16.5
16
15.5
15
14.5
14
13.5

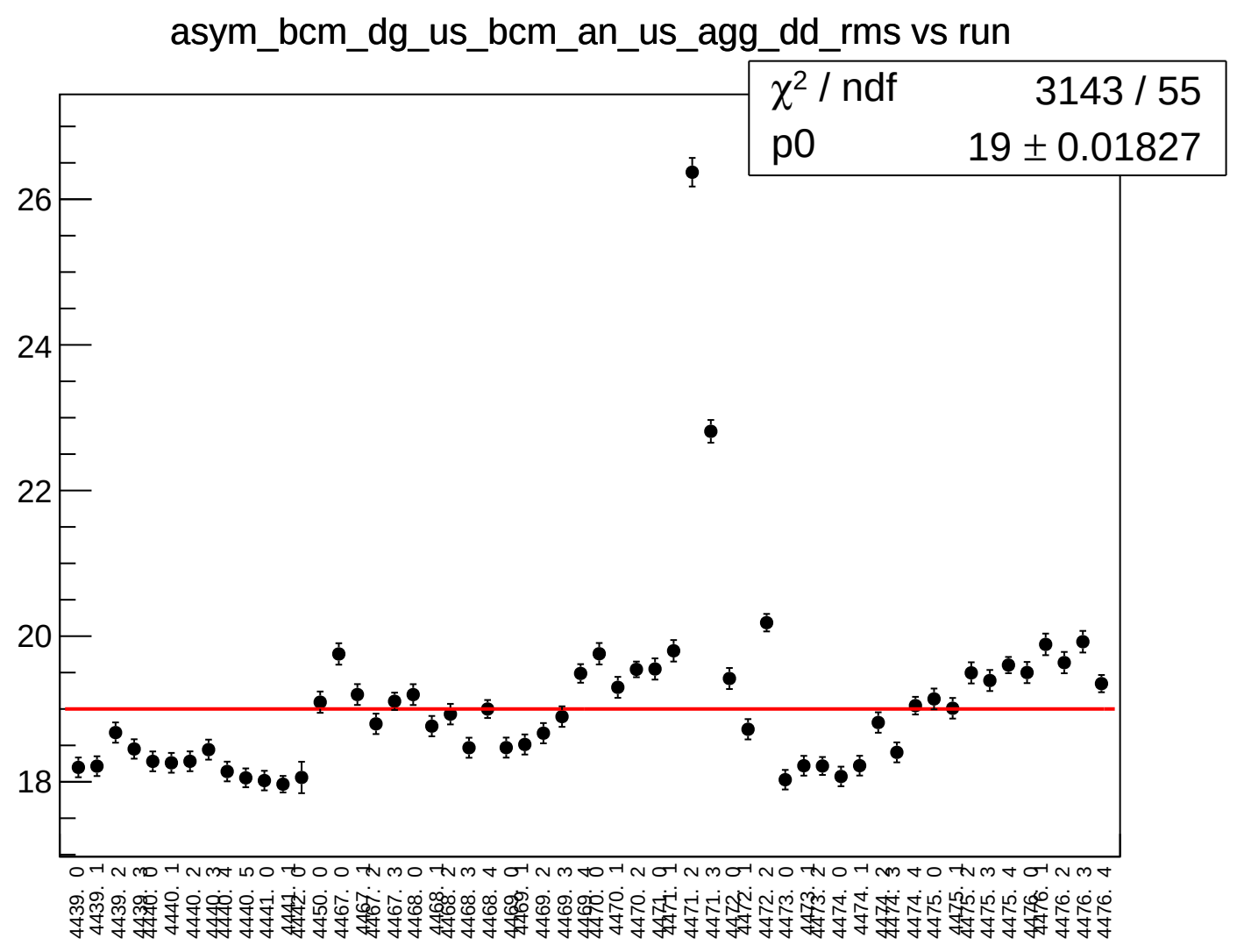

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 12.94 / 55
p0 −124.8 ± 159.6
pull
Entries 56
Mean 34.3
Std Dev 21.66

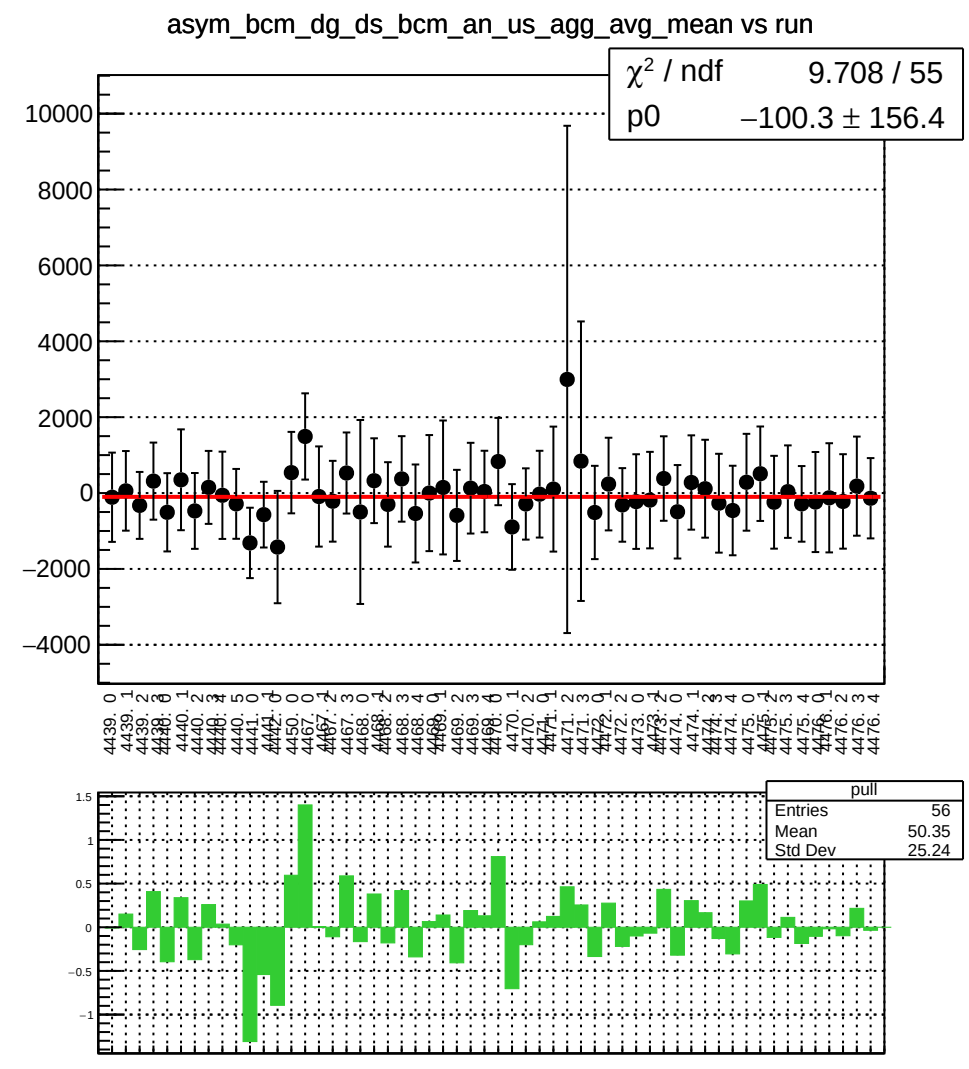

pull1D
Entries 56
Mean 0.02248
Std Dev 0.4802

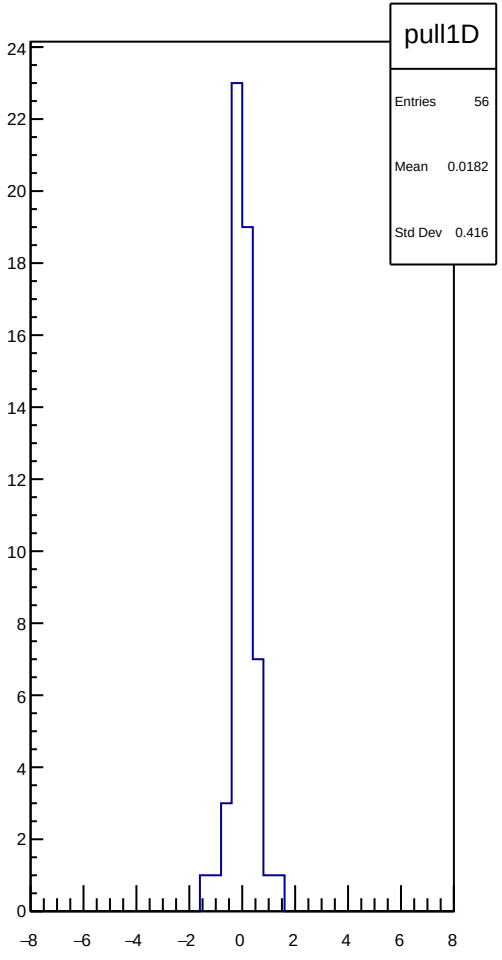

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4.71e+04 / 55
p0 115 ± 0.1129
700
600
500
400
300
200
100

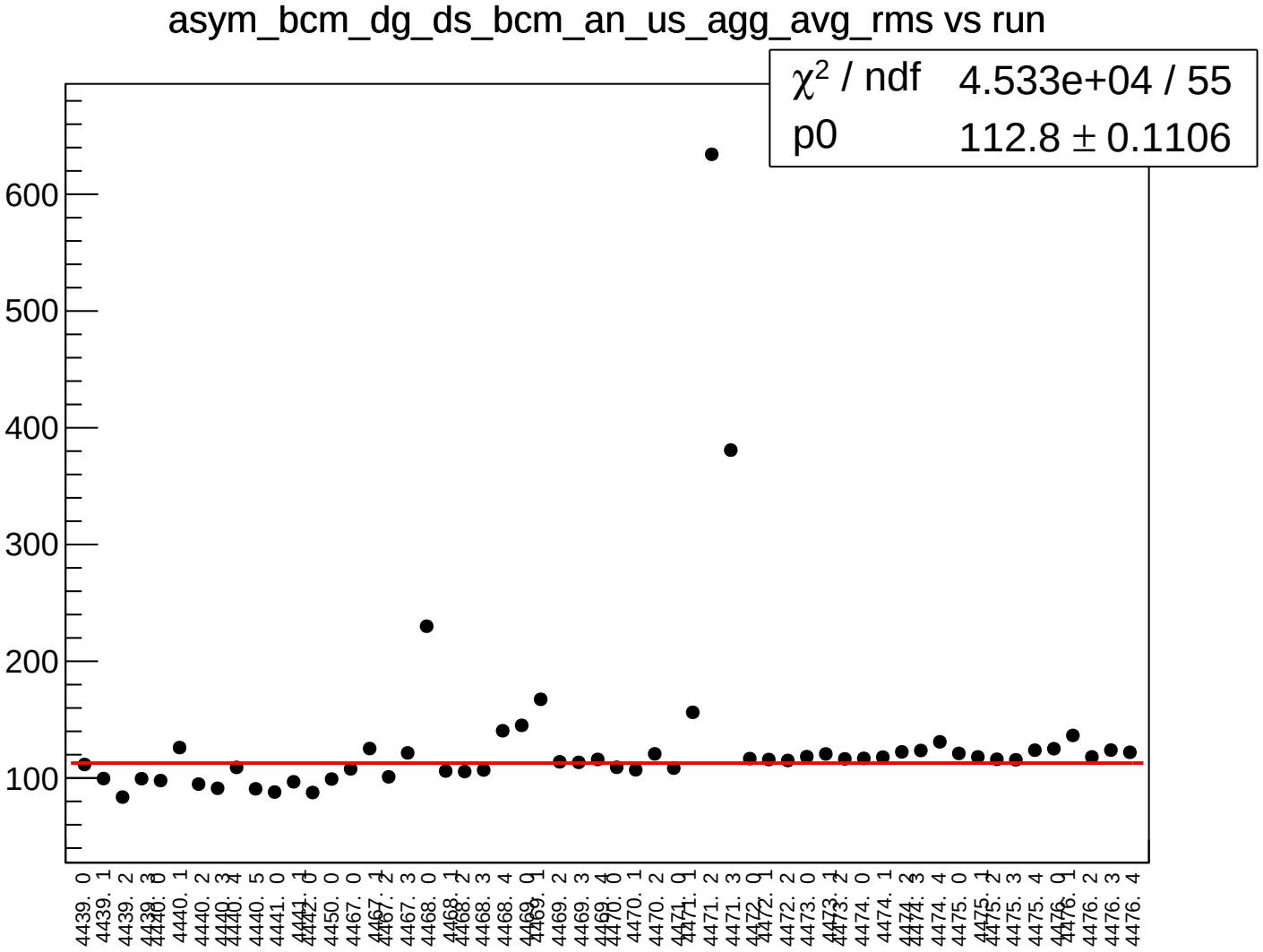

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 50.84 / 55
p0 −1.786 ± 25.83
pull
Entries 56
Mean −72.81
Std Dev 103.1

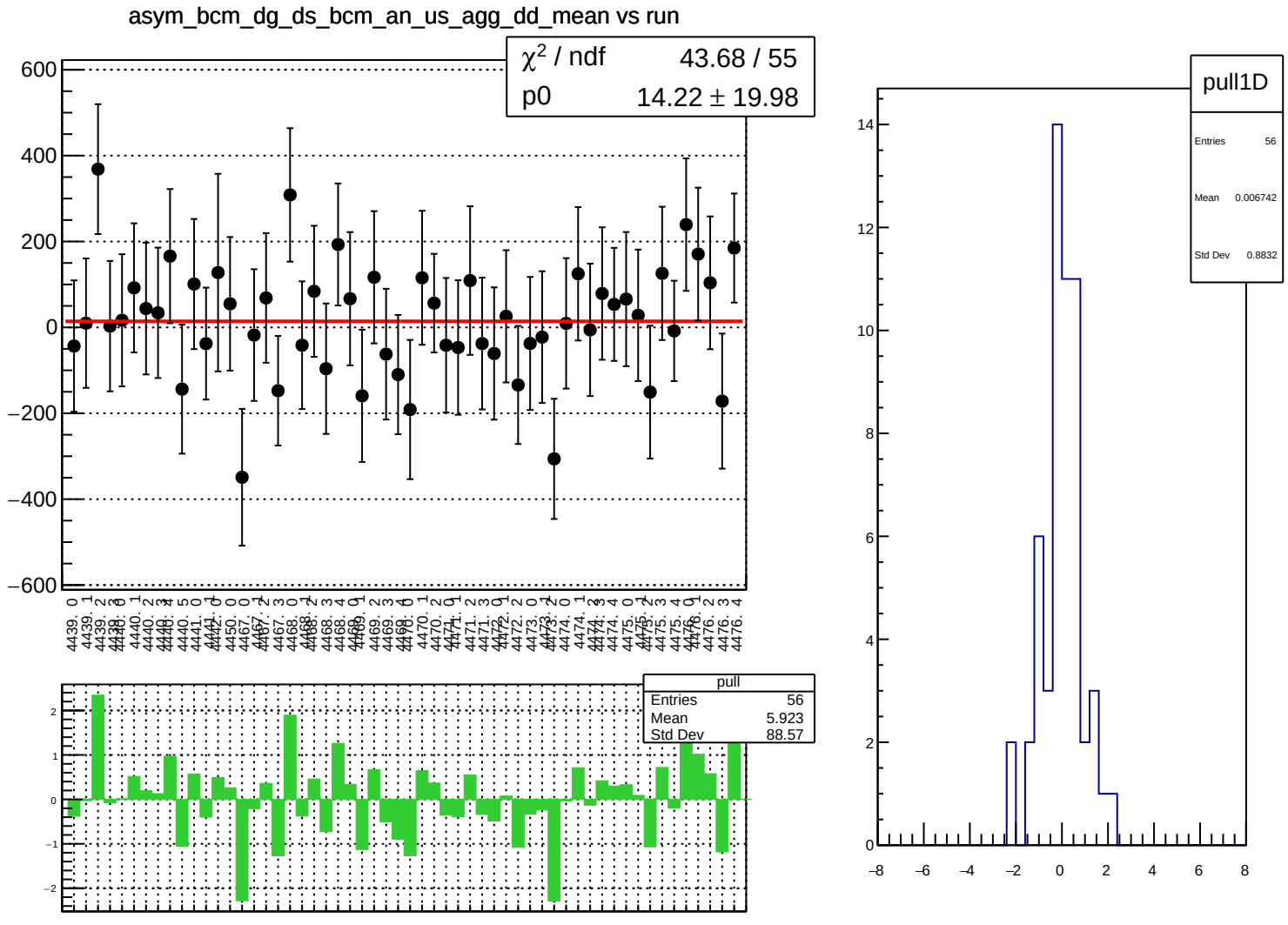

pull1D
Entries 56
Mean 0.02021
Std Dev 0.9526

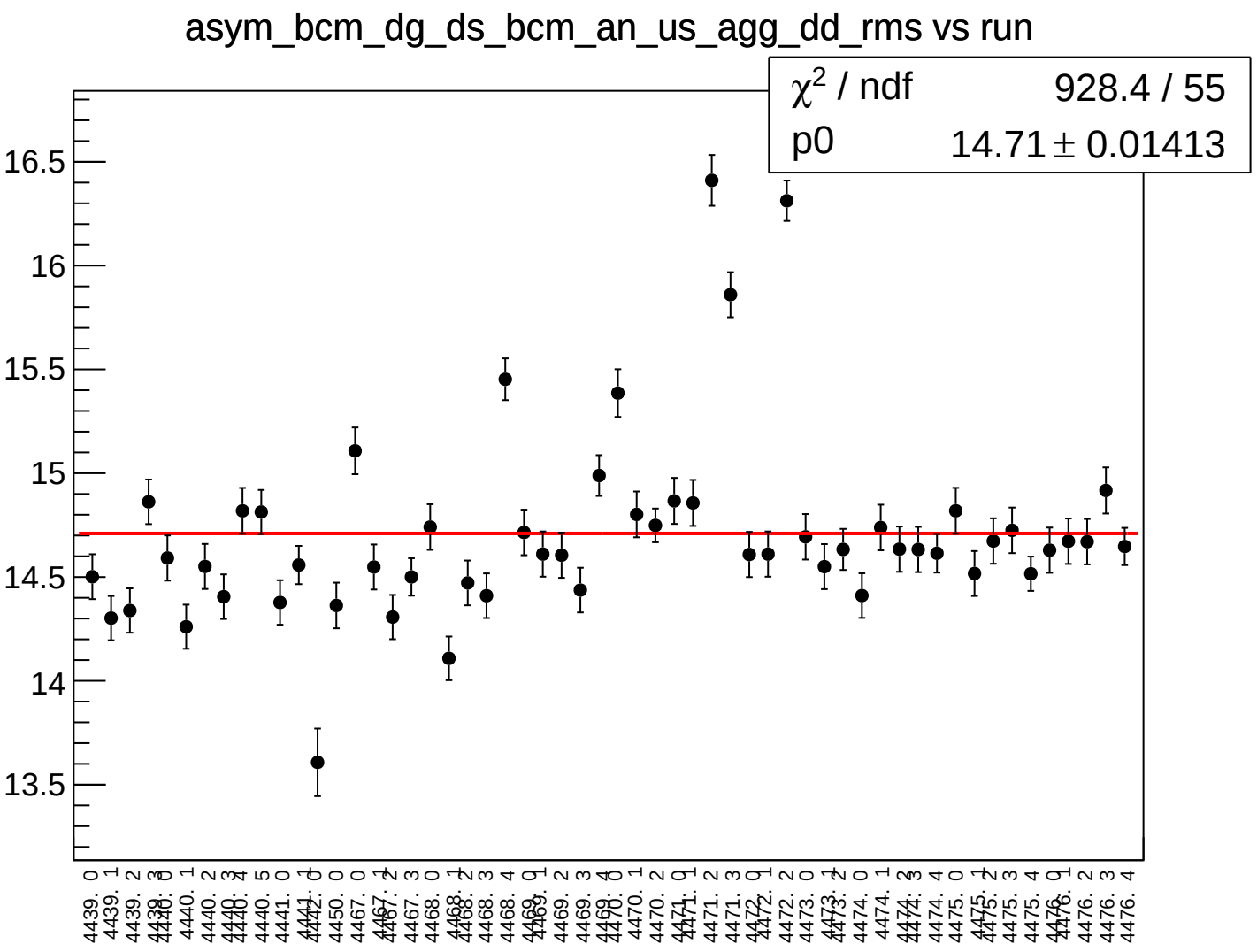

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3143 / 55
p0 19 ± 0.01827
26
24
22
20
18
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

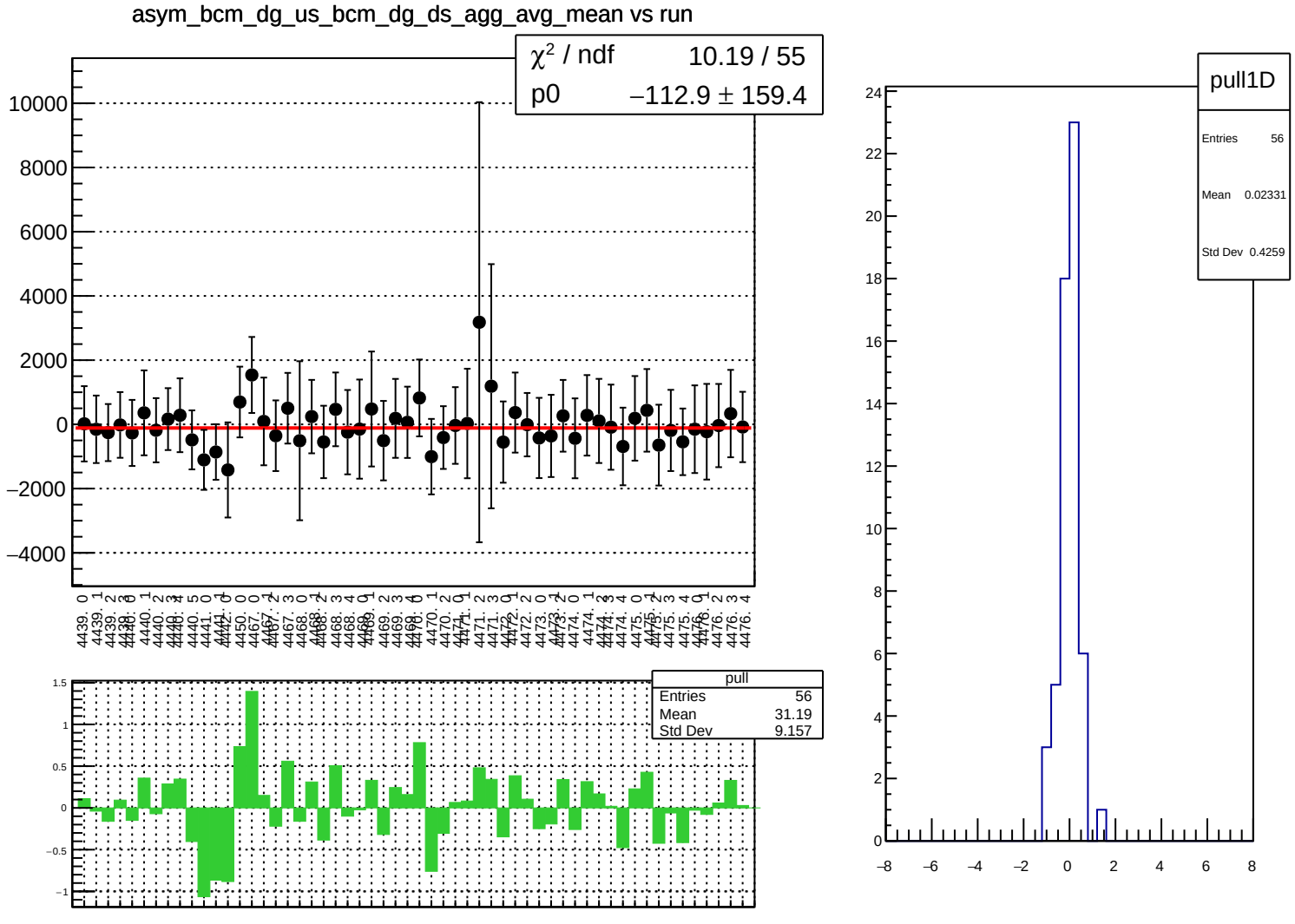

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 9.708 / 55
p0 −100.3 ± 156.4
pull
Entries 56
Mean 50.35
Std Dev 25.24

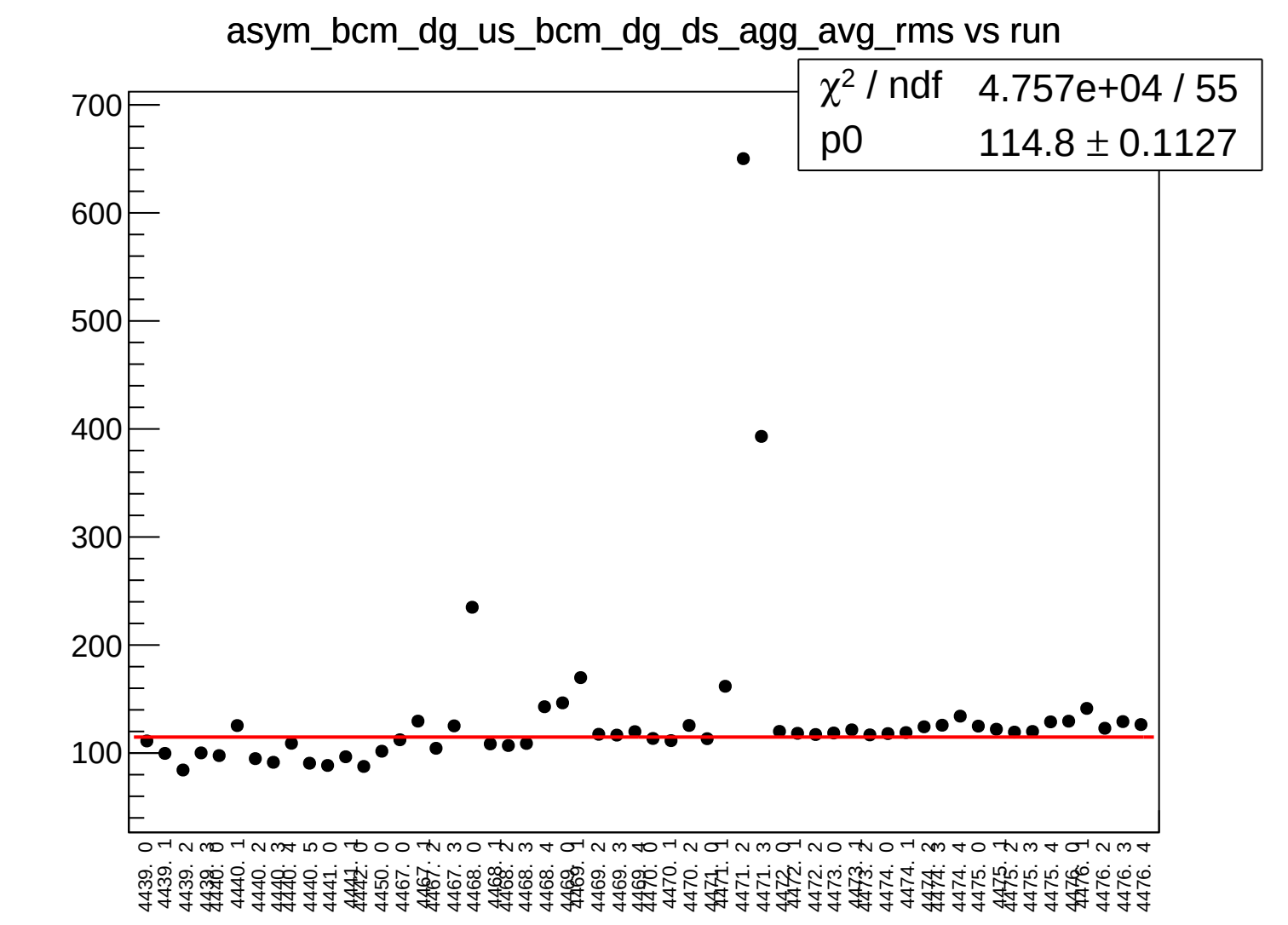

pull1D
Entries 56
Mean 0.0182
Std Dev 0.416

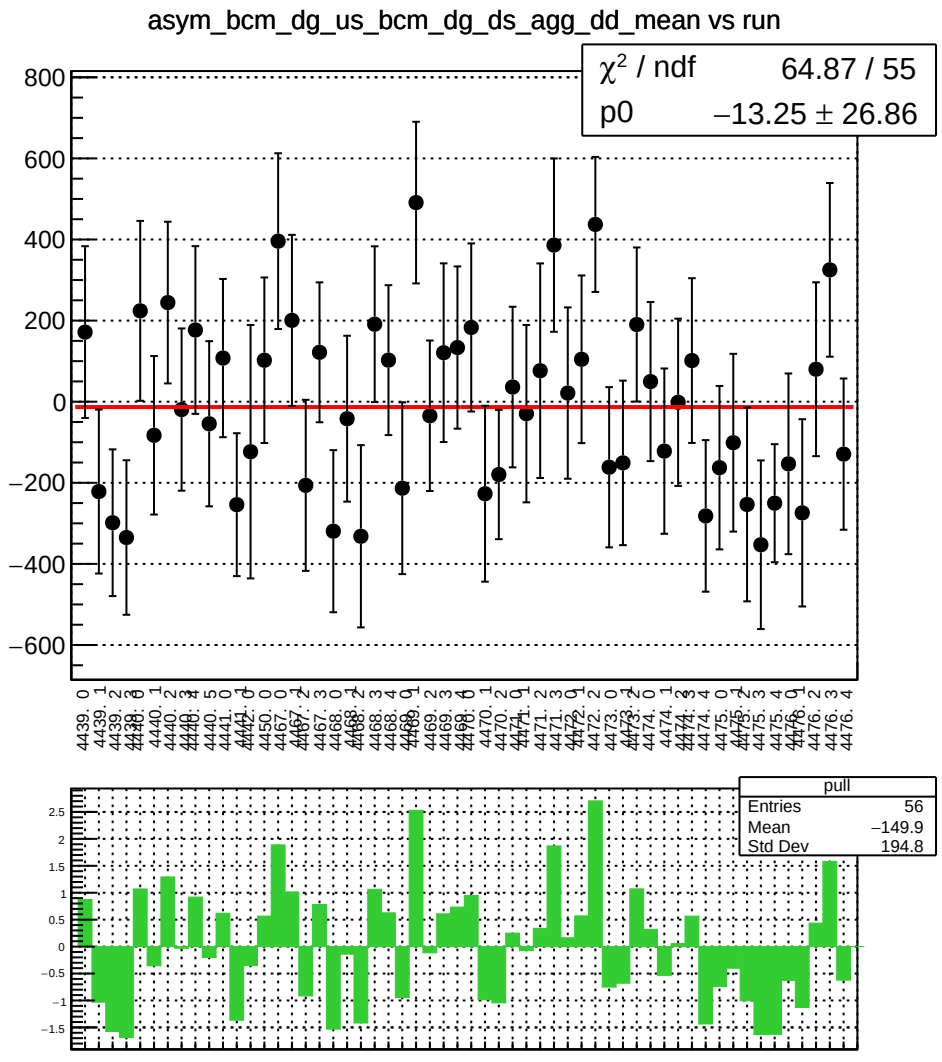

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4.533e+04 / 55
p0 112.8 ± 0.1106
600
500
400
300
200
100

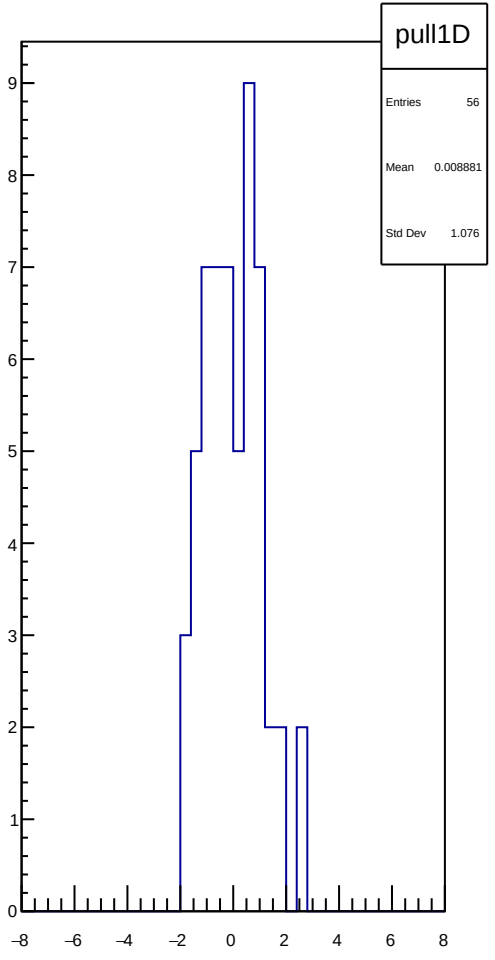

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ^2 / ndf 43.68 / 55
p0 14.22 ± 19.98
pull
Entries 56
Mean 5.923
Std Dev 88.57
pull1D
Entries 56
Mean 0.006742
Std Dev 0.8832

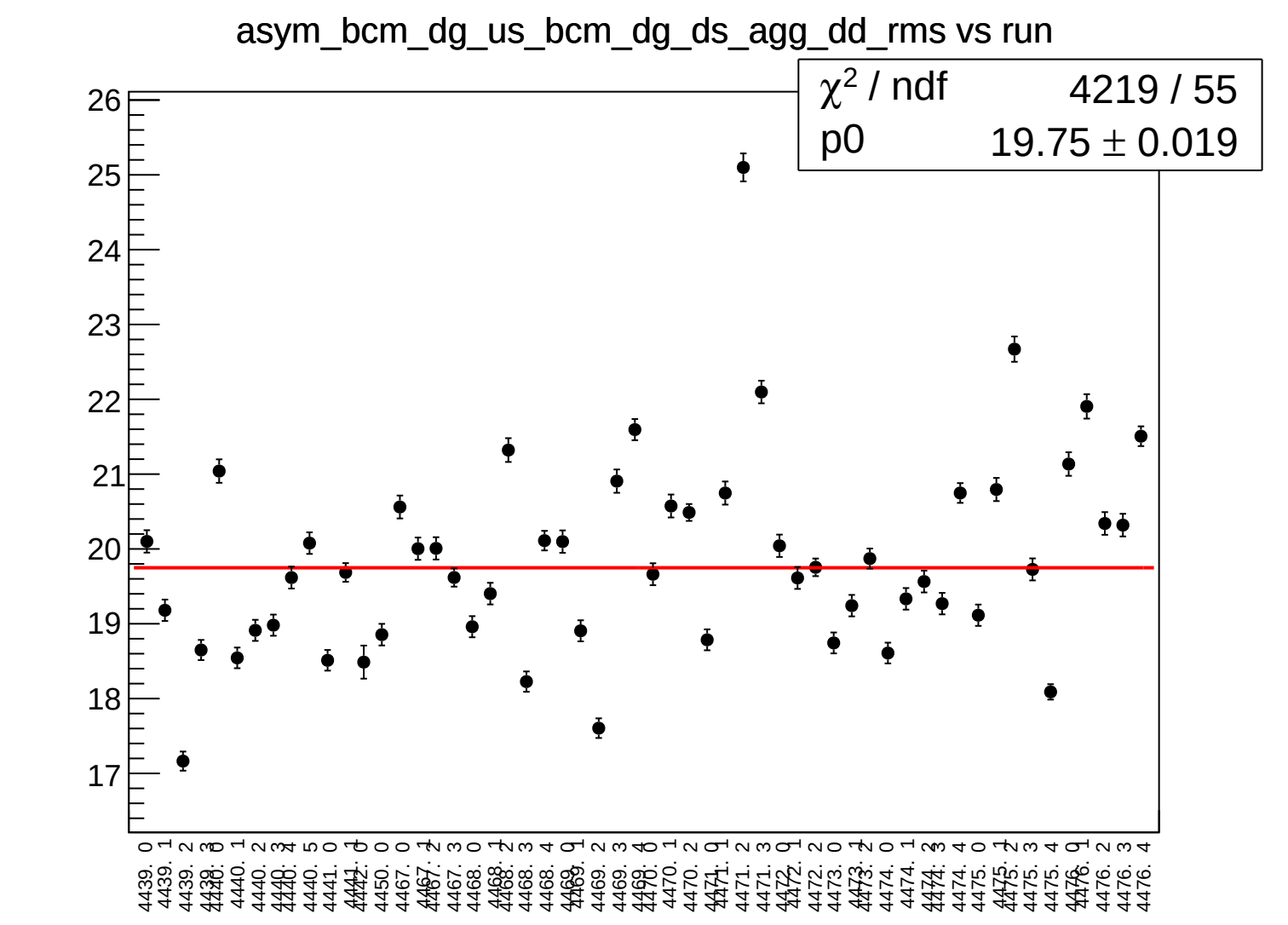

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ^2 / ndf 928.4 / 55
p0 14.71 ± 0.01413
16.5
16
15.5
15
14.5
14
13.5

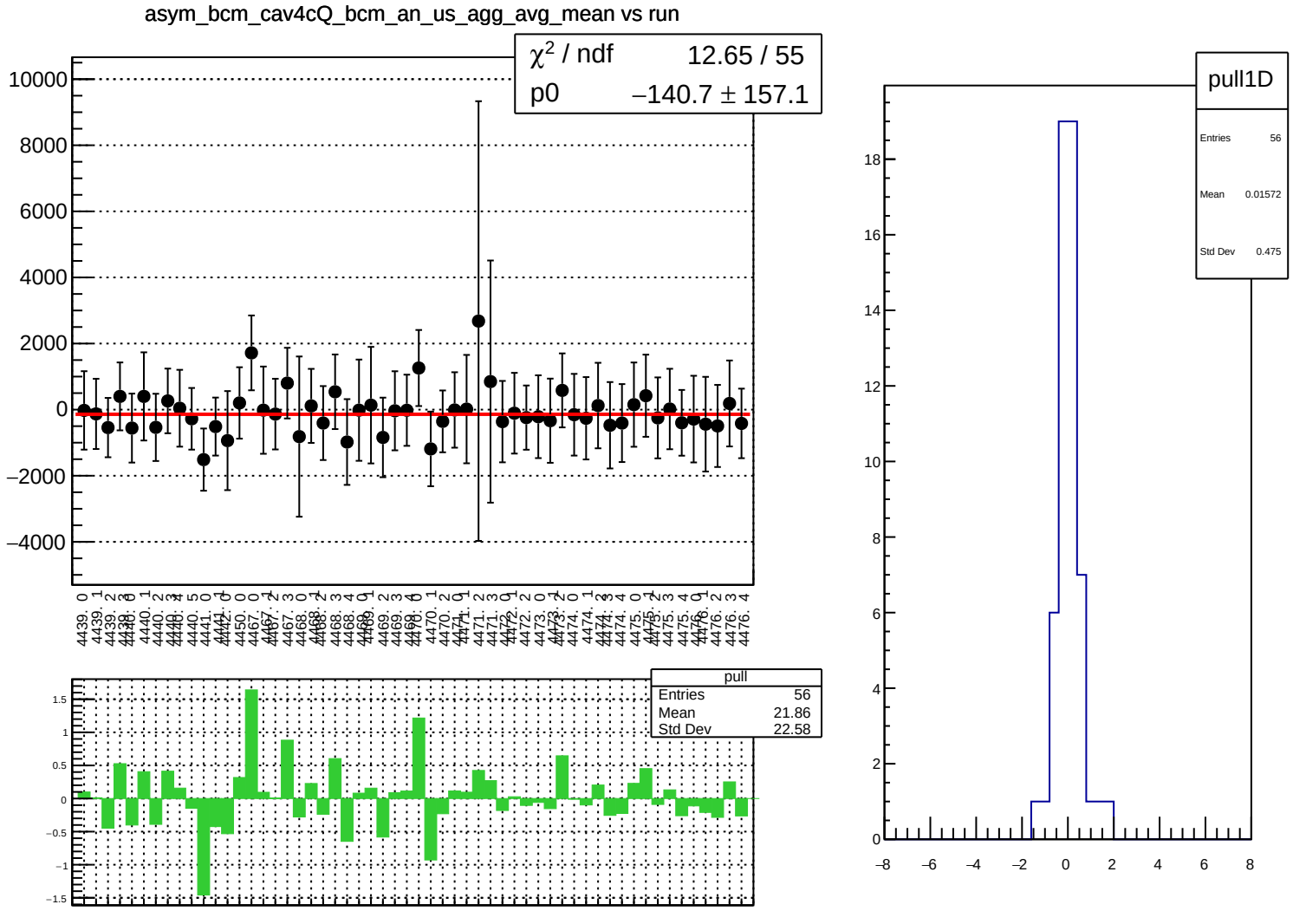

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 10.19 / 55
p0 −112.9 ± 159.4
pull
Entries 56
Mean 31.19
Std Dev 9.157
pull1D
Entries 56
Mean 0.02331
Std Dev 0.4259

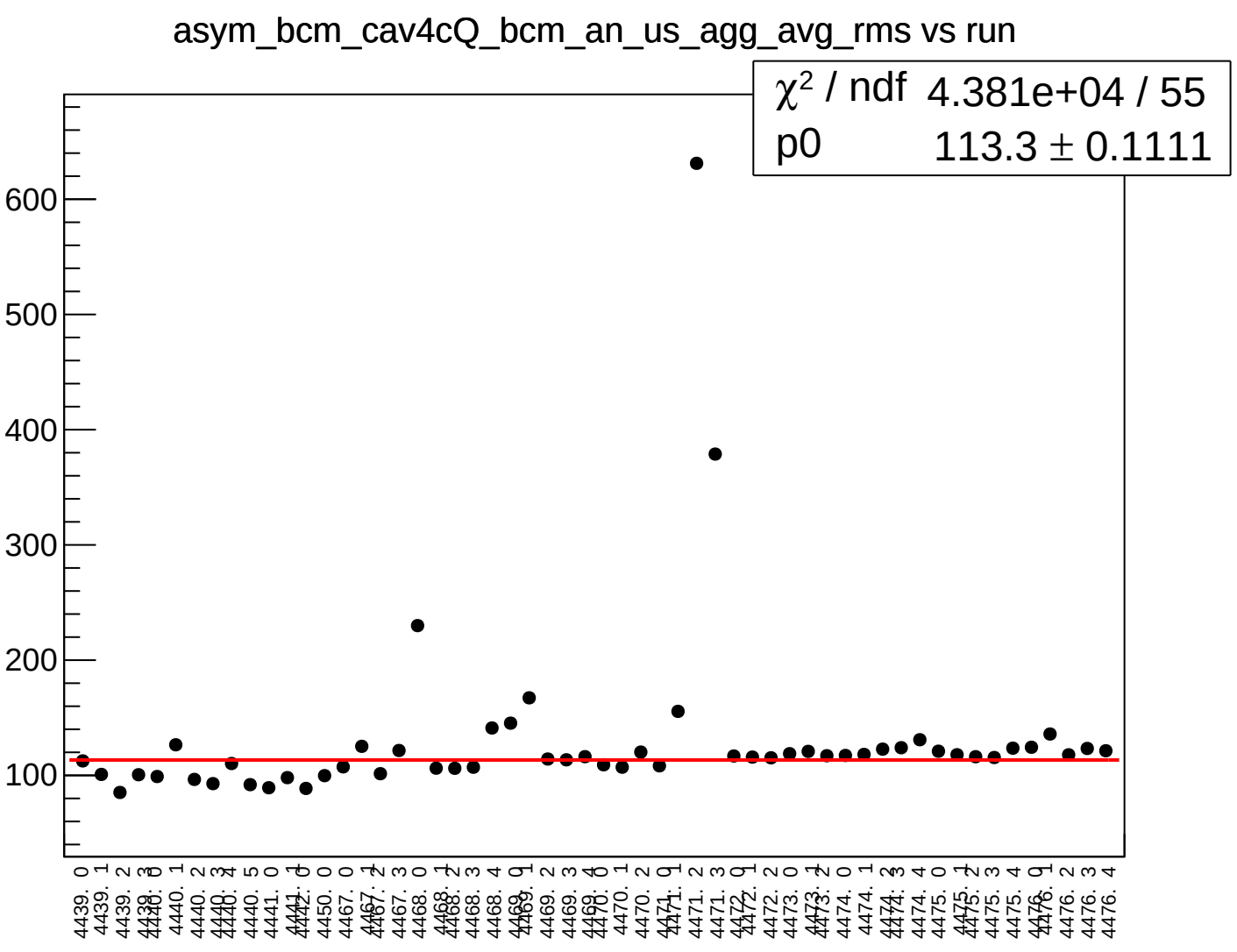

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4.757e+04 / 55
p0 114.8 ± 0.1127
700
600
500
400
300
200
100

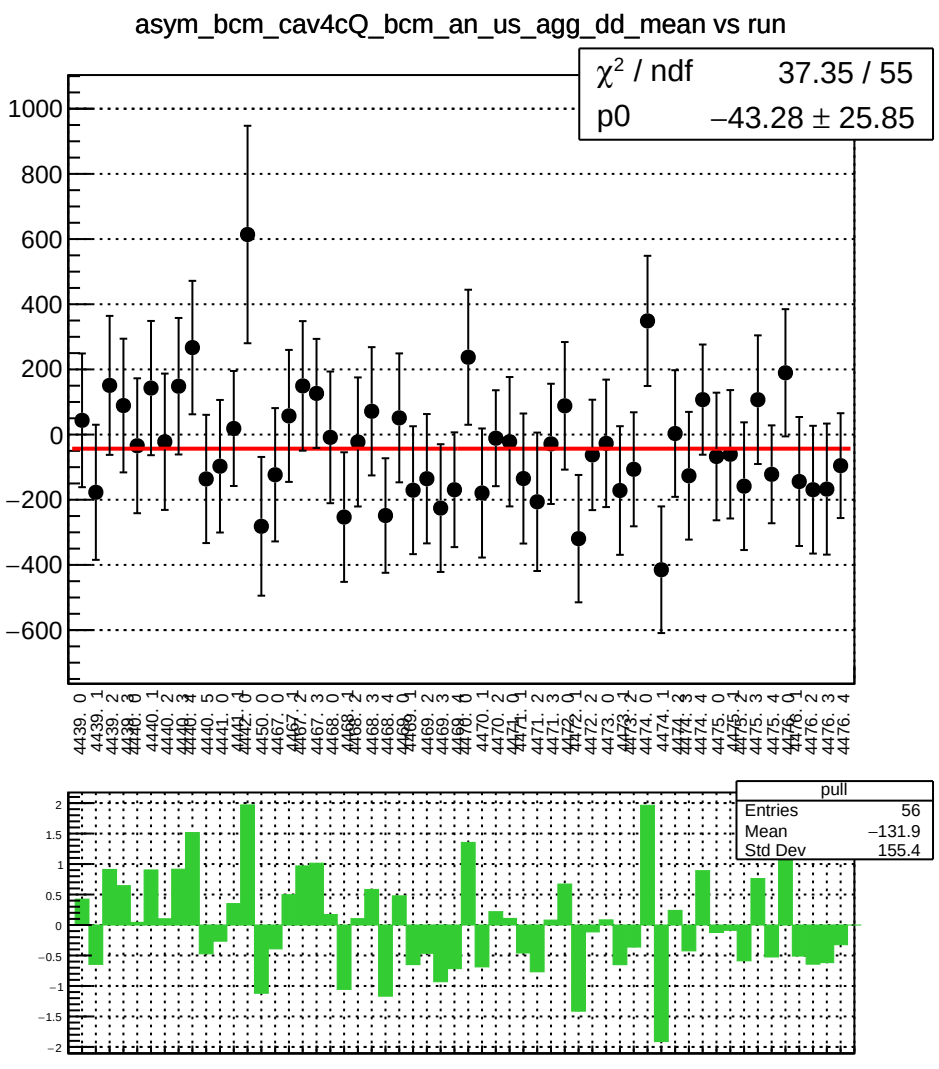

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 64.87 / 55
p0 −13.25 ± 26.86
pull
Entries 56
Mean −149.9
Std Dev 194.8

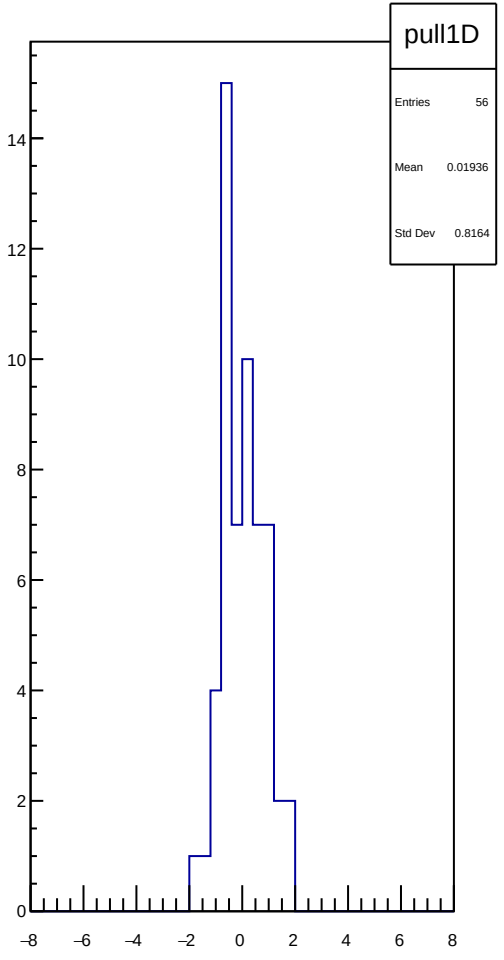

pull1D
Entries 56
Mean 0.008881
Std Dev 1.076

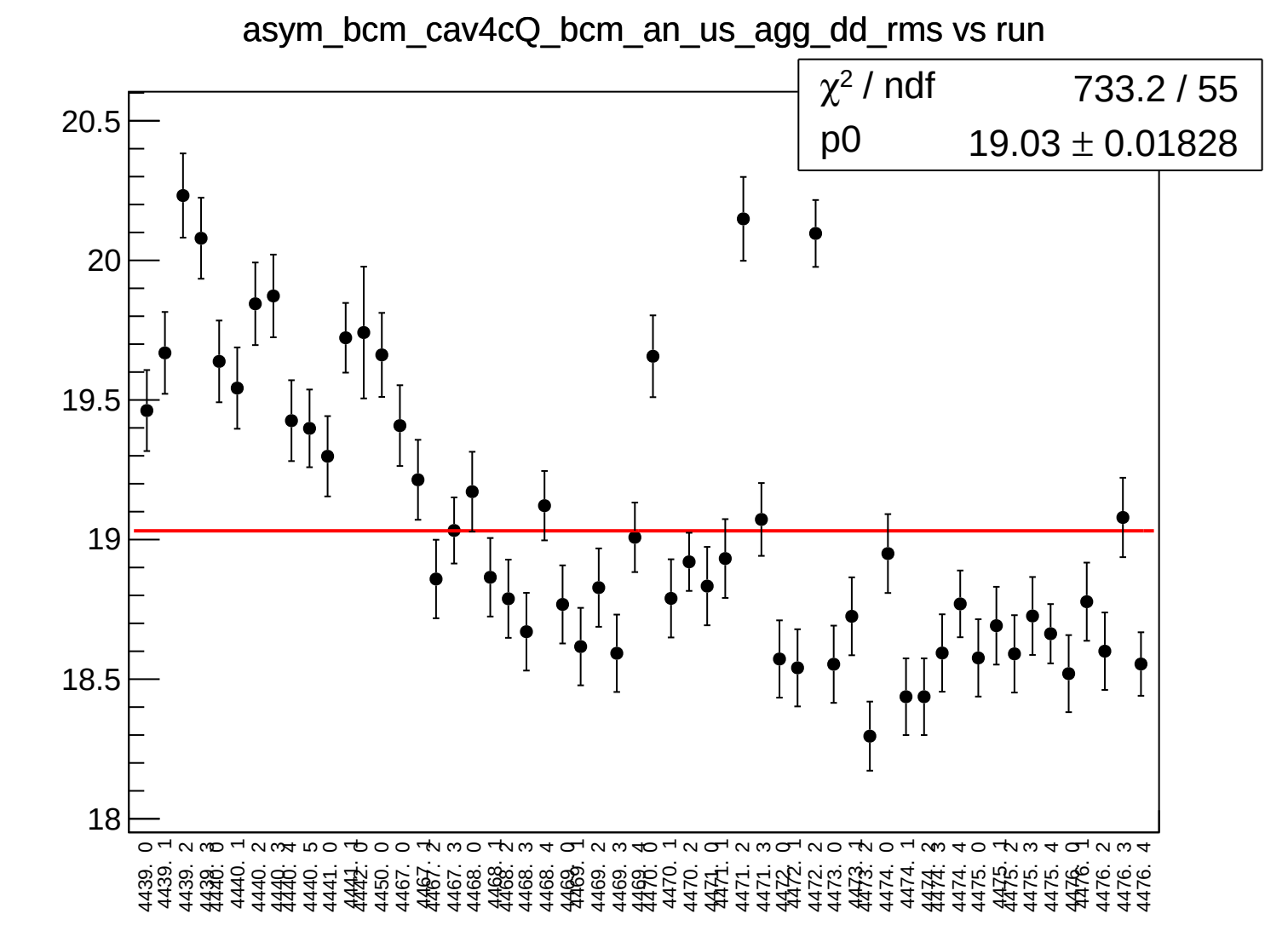

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4219 / 55
p0 19.75 ± 0.019
26
25
24
23
22
21
20
19
18
17

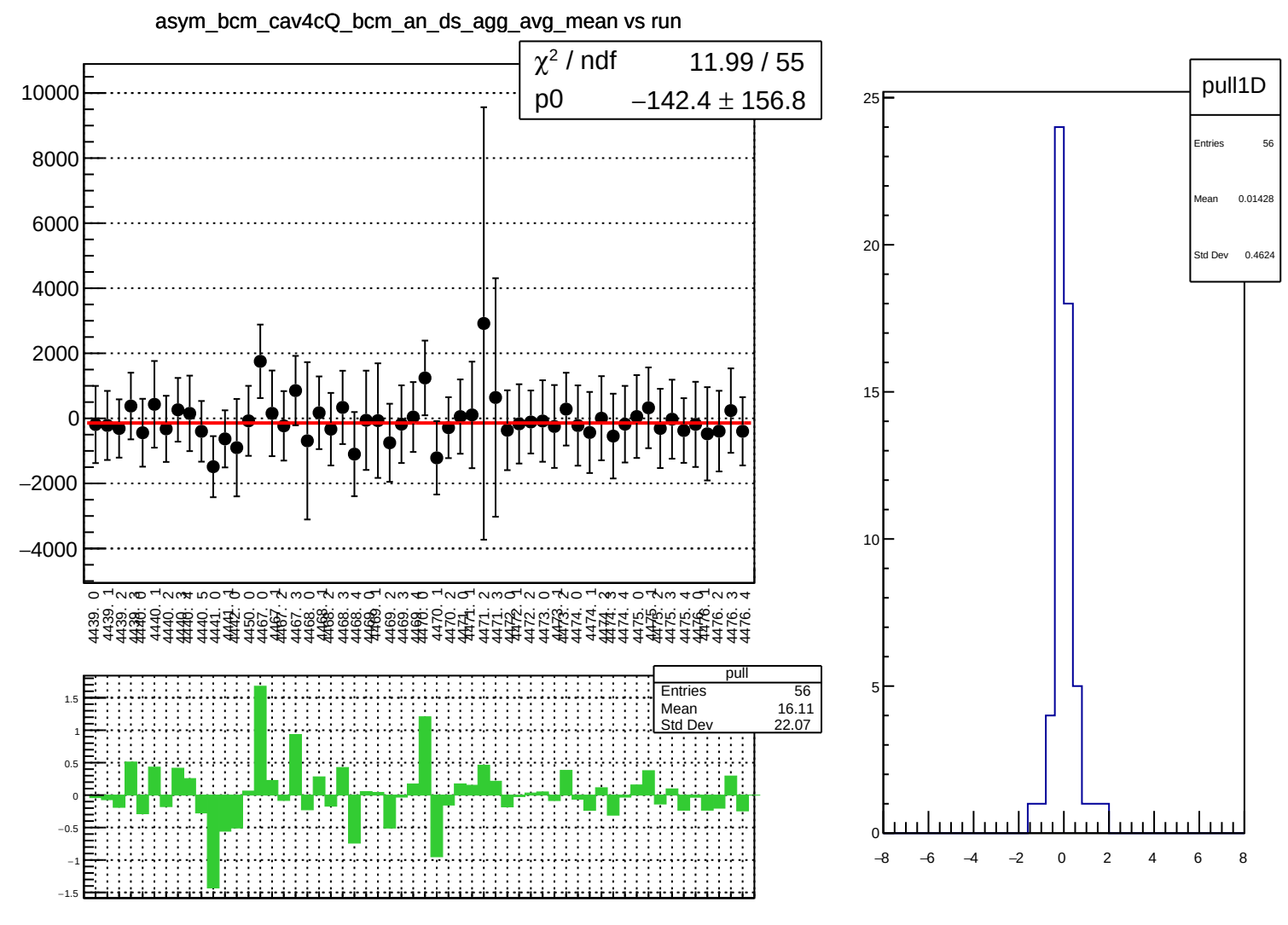

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 12.65 / 55
p0 −140.7 ± 157.1
pull
Entries 56
Mean 21.86
Std Dev 22.58
pull1D
Entries 56
Mean 0.01572
Std Dev 0.475

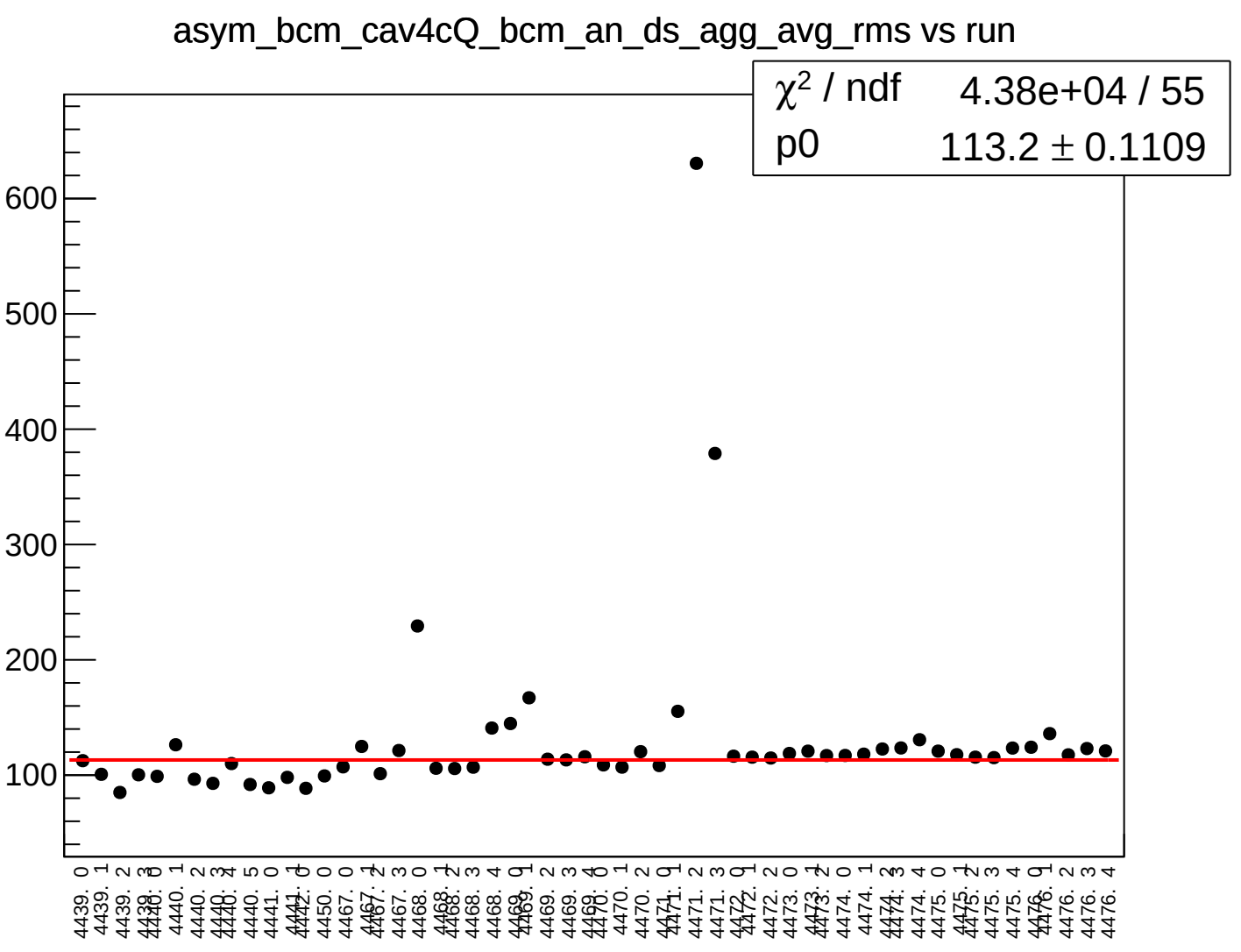

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4.381e+04 / 55
p0 113.3 ± 0.1111
600
500
400
300
200
100

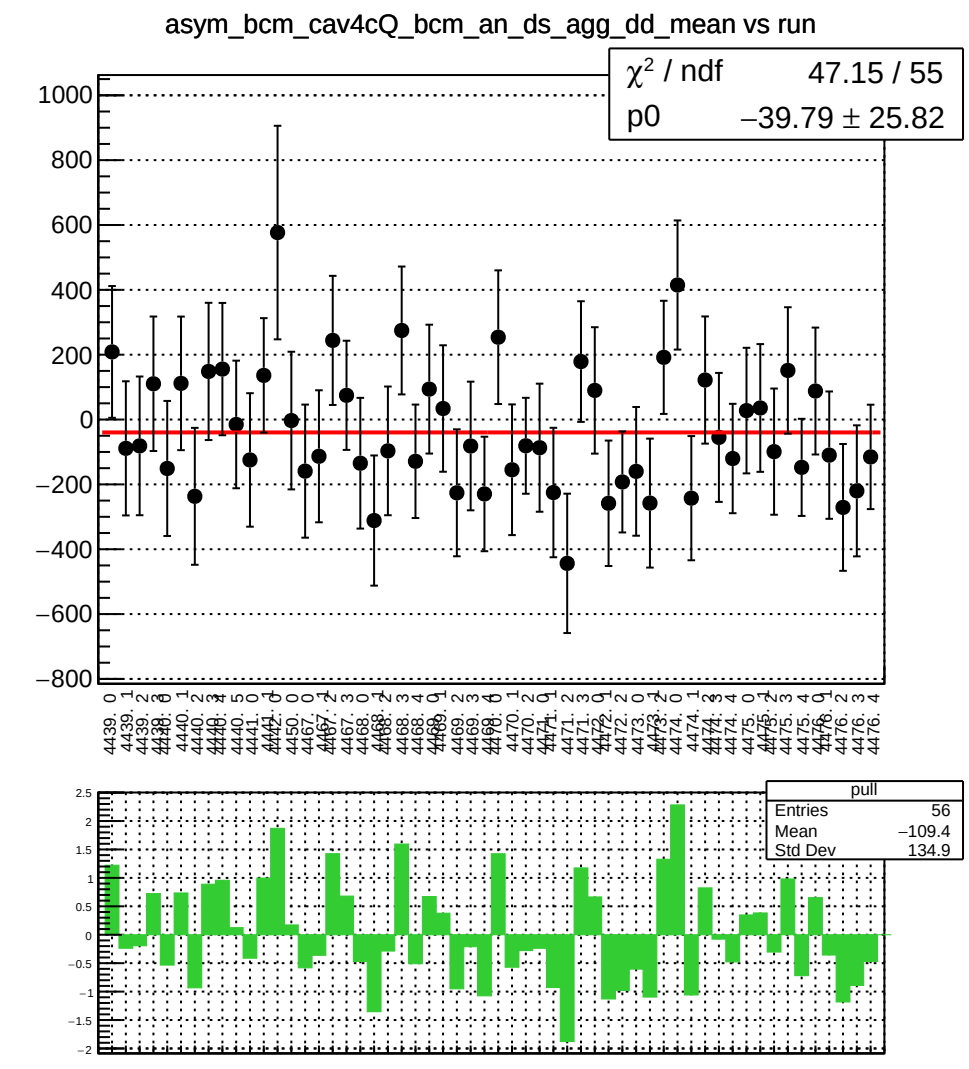

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 37.35 / 55
p0 −43.28 ± 25.85
pull
Entries 56
Mean −131.9
Std Dev 155.4

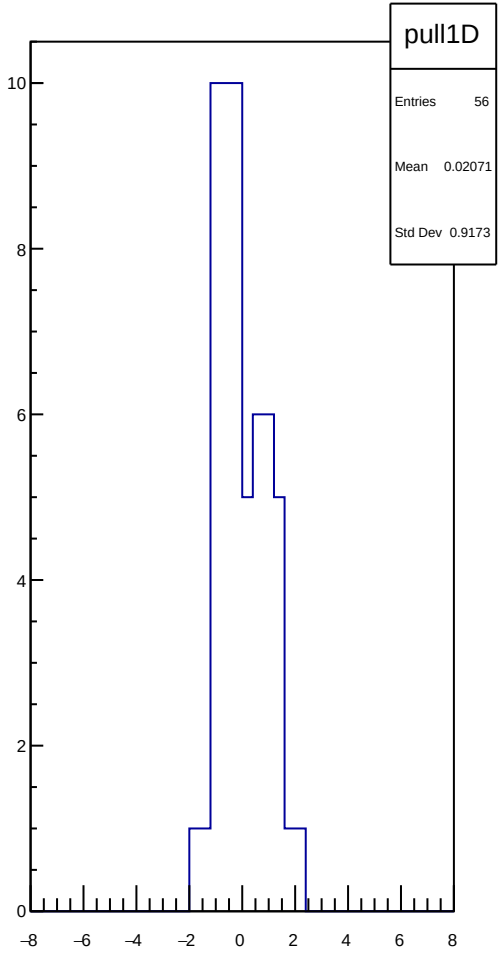

pull1D
Entries 56
Mean 0.01936
Std Dev 0.8164

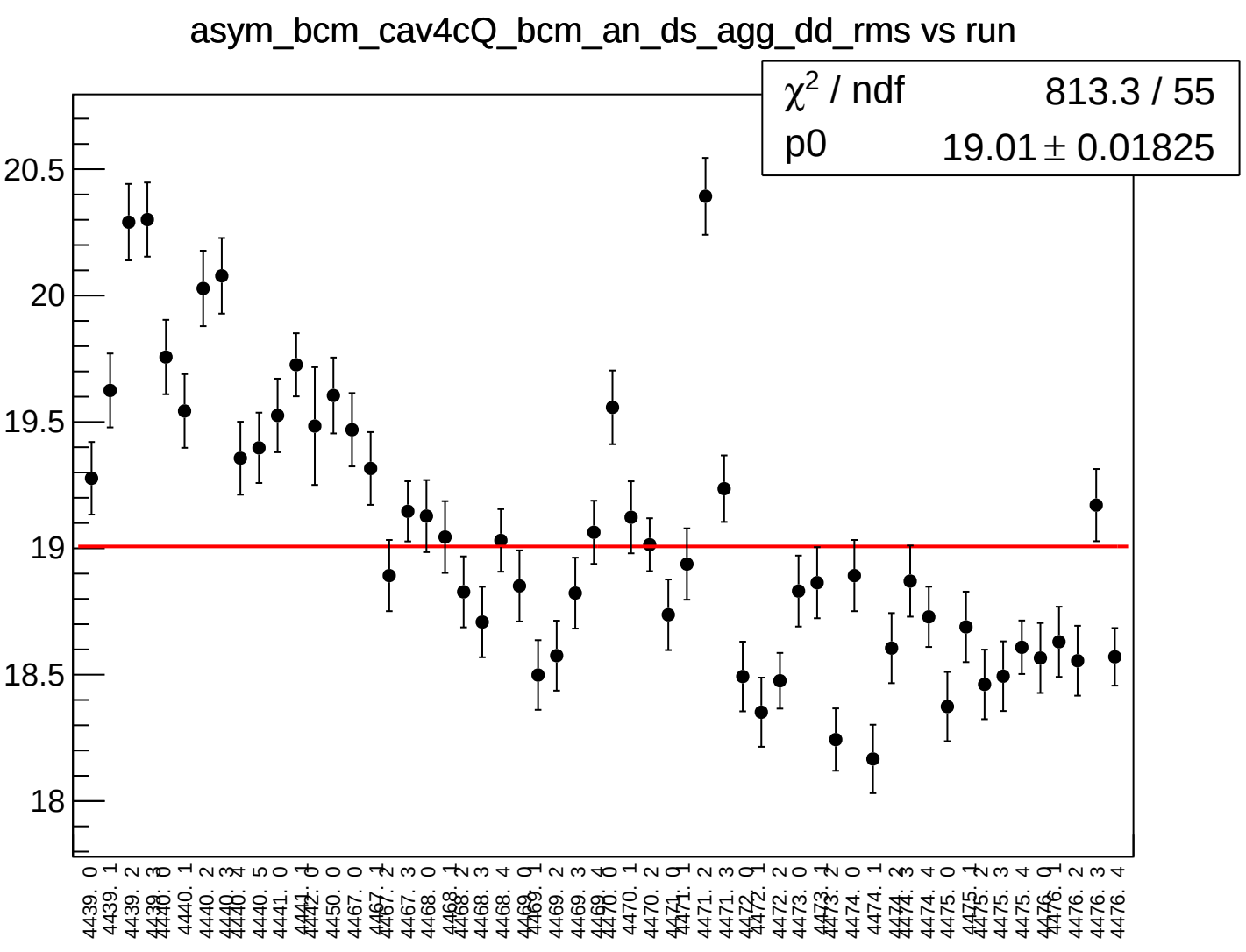

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 733.2 / 55
p0 19.03 ± 0.01828
20.5
20
19.5
19
18.5
18

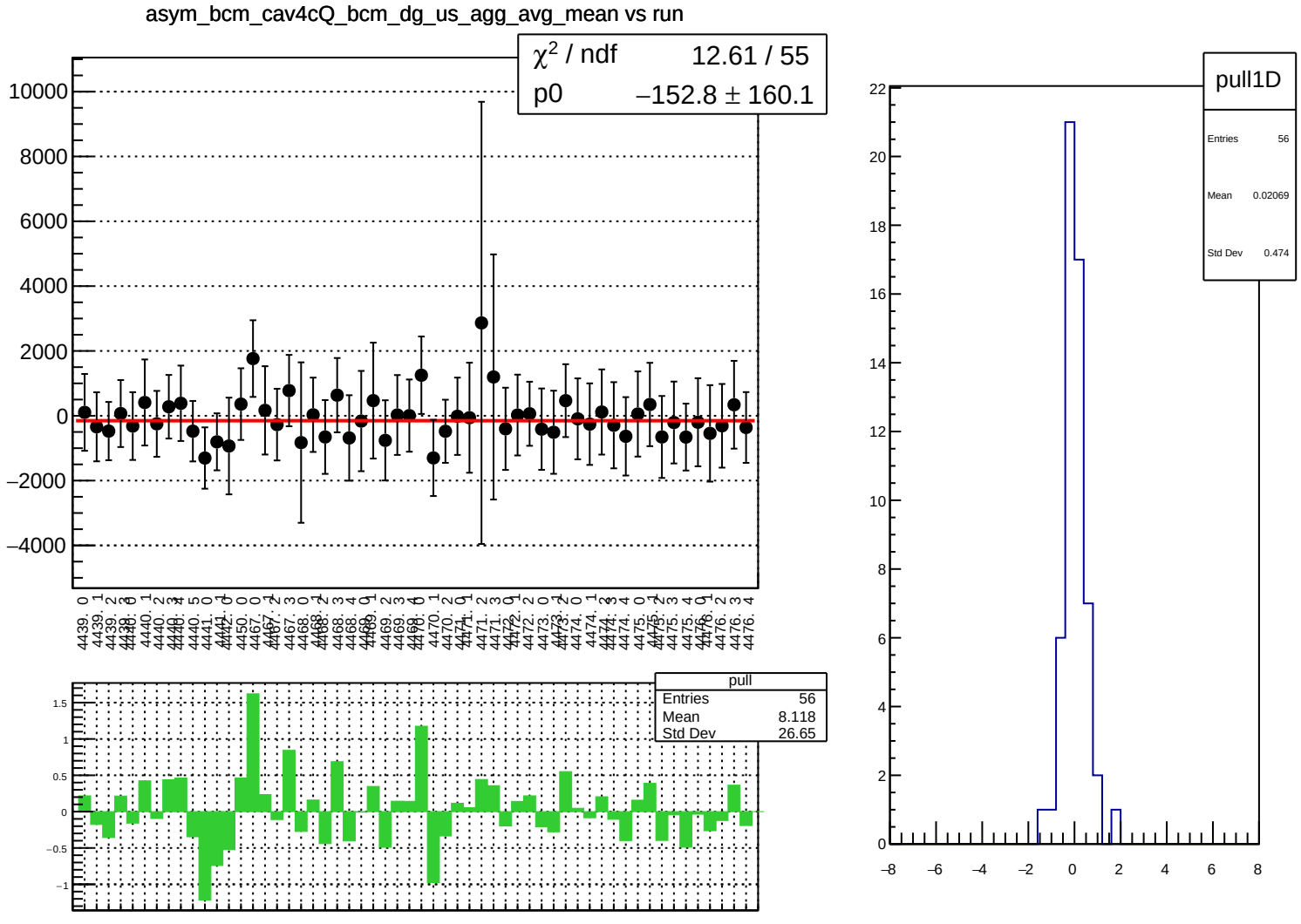

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.99 / 55
p0 −142.4 ± 156.8
pull
Entries 56
Mean 16.11
Std Dev 22.07
pull1D
Entries 56
Mean 0.01428
Std Dev 0.4624

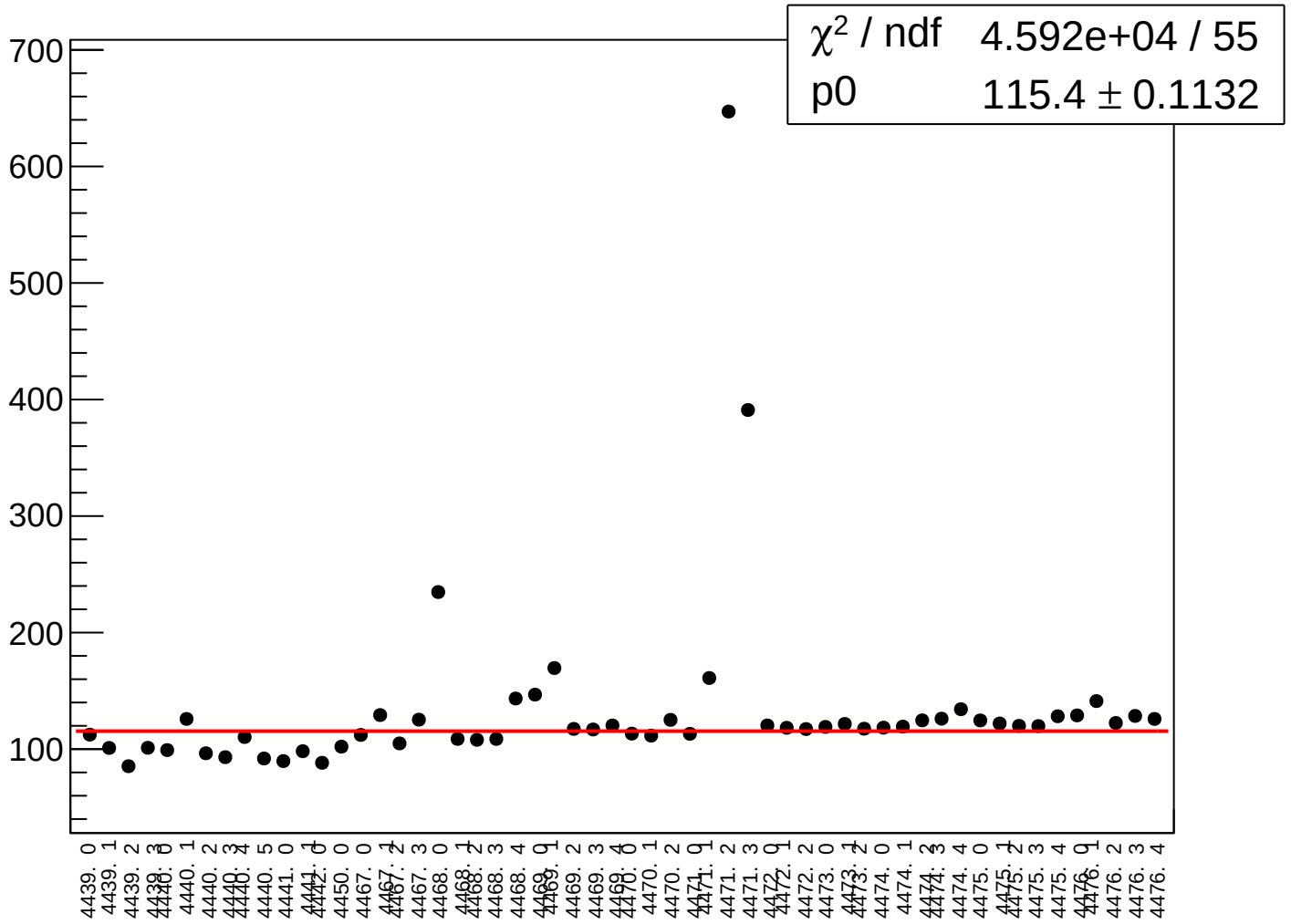

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.38e+04 / 55
p0 113.2 ± 0.1109
600
500
400
300
200
100

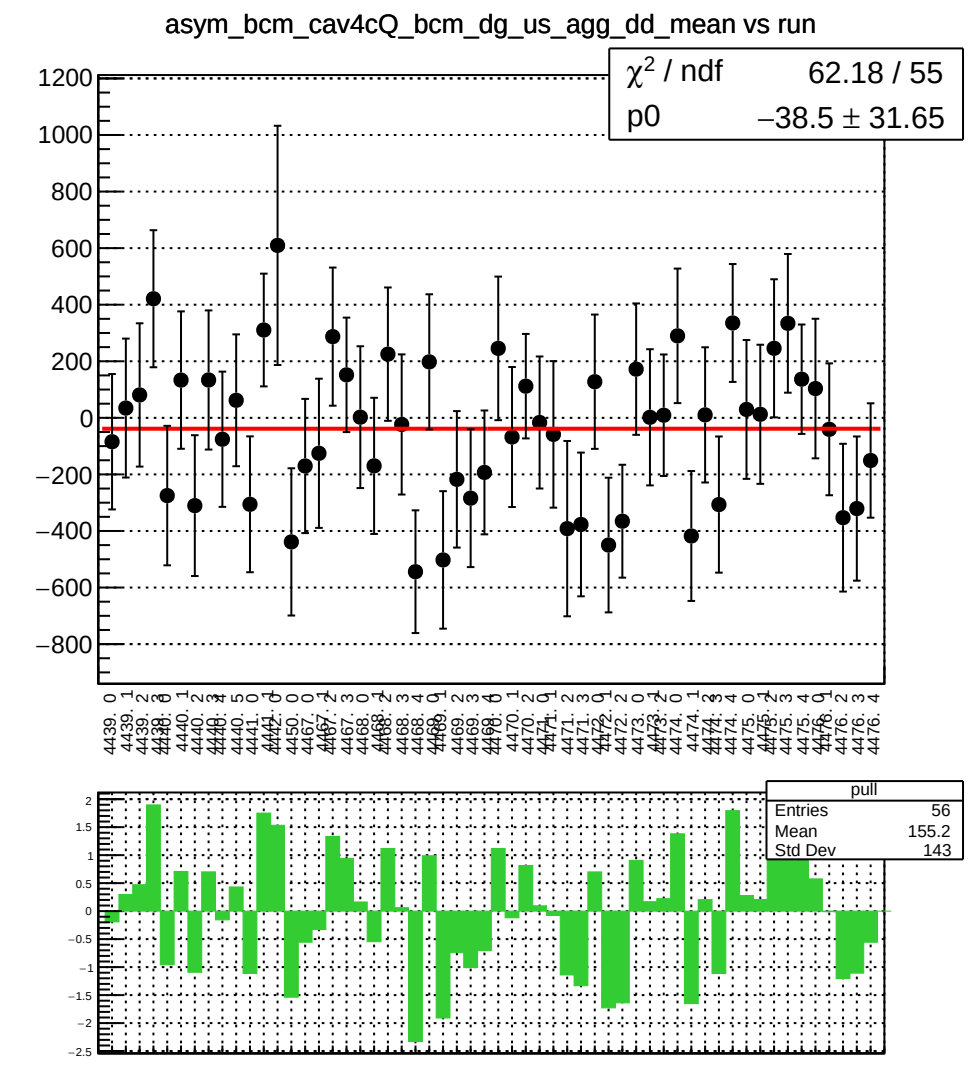

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 47.15 / 55
p0 −39.79 ± 25.82
pull
Entries 56
Mean −109.4
Std Dev 134.9

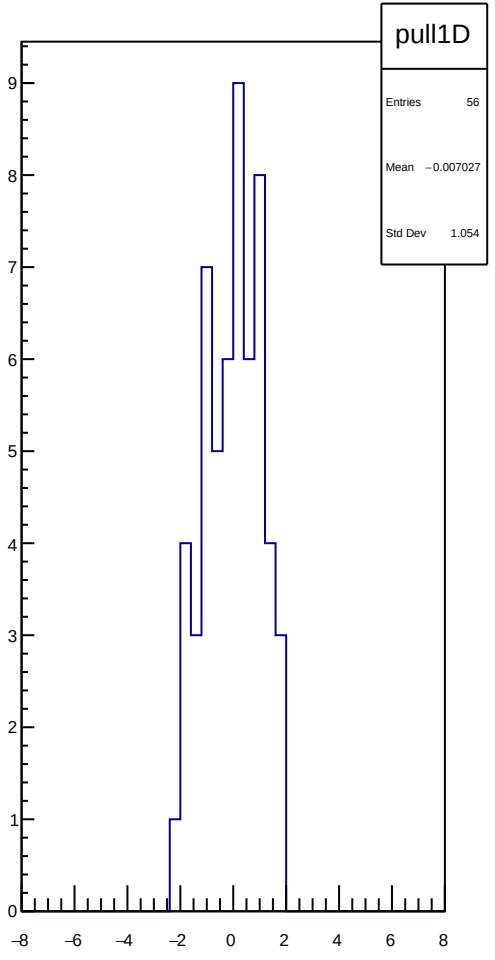

pull1D
Entries 56
Mean 0.02071
Std Dev 0.9173

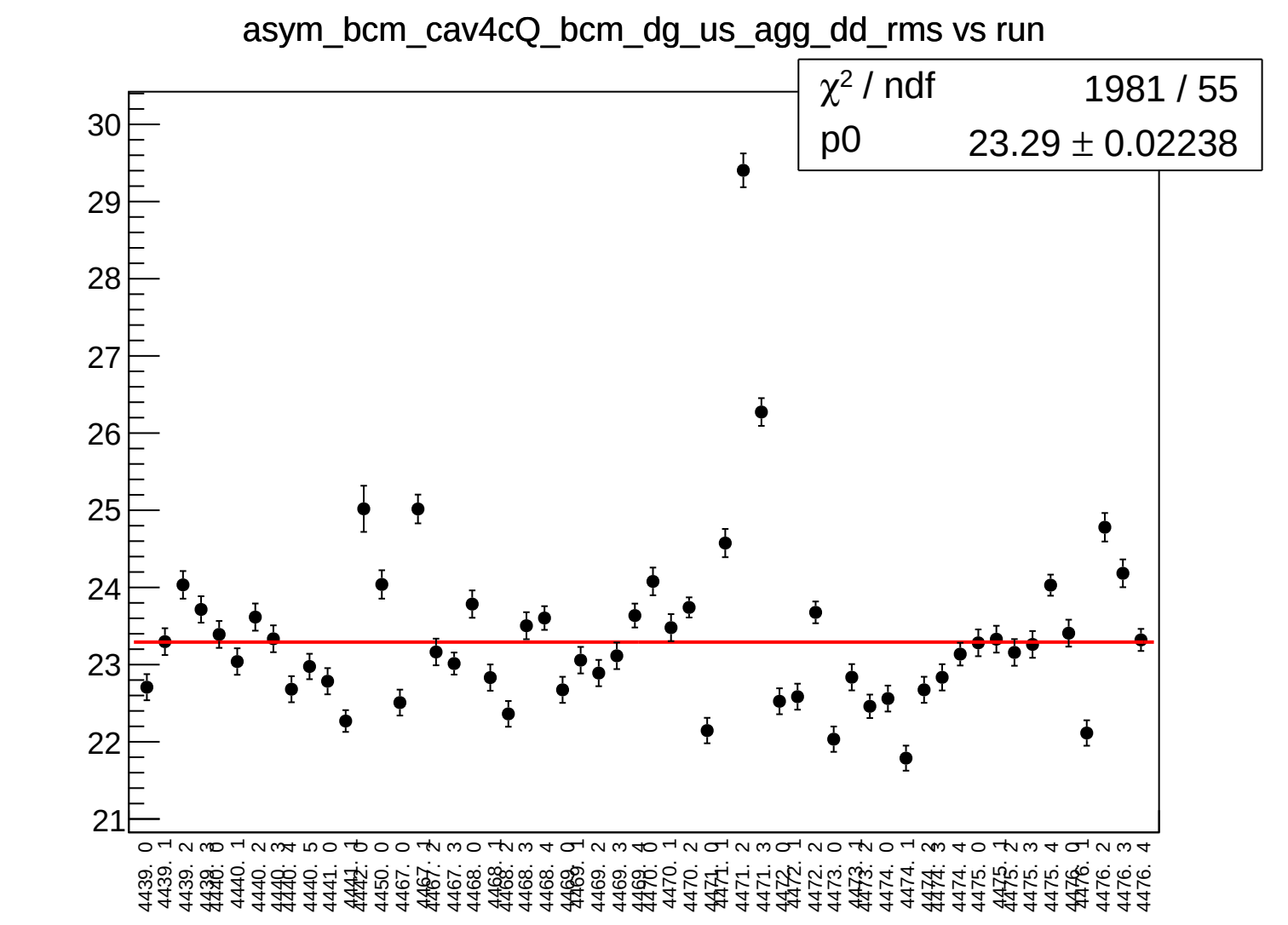

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ^2 / ndf 813.3 / 55
p0 19.01 ± 0.01825
20.5
20
19.5
19
18.5
18

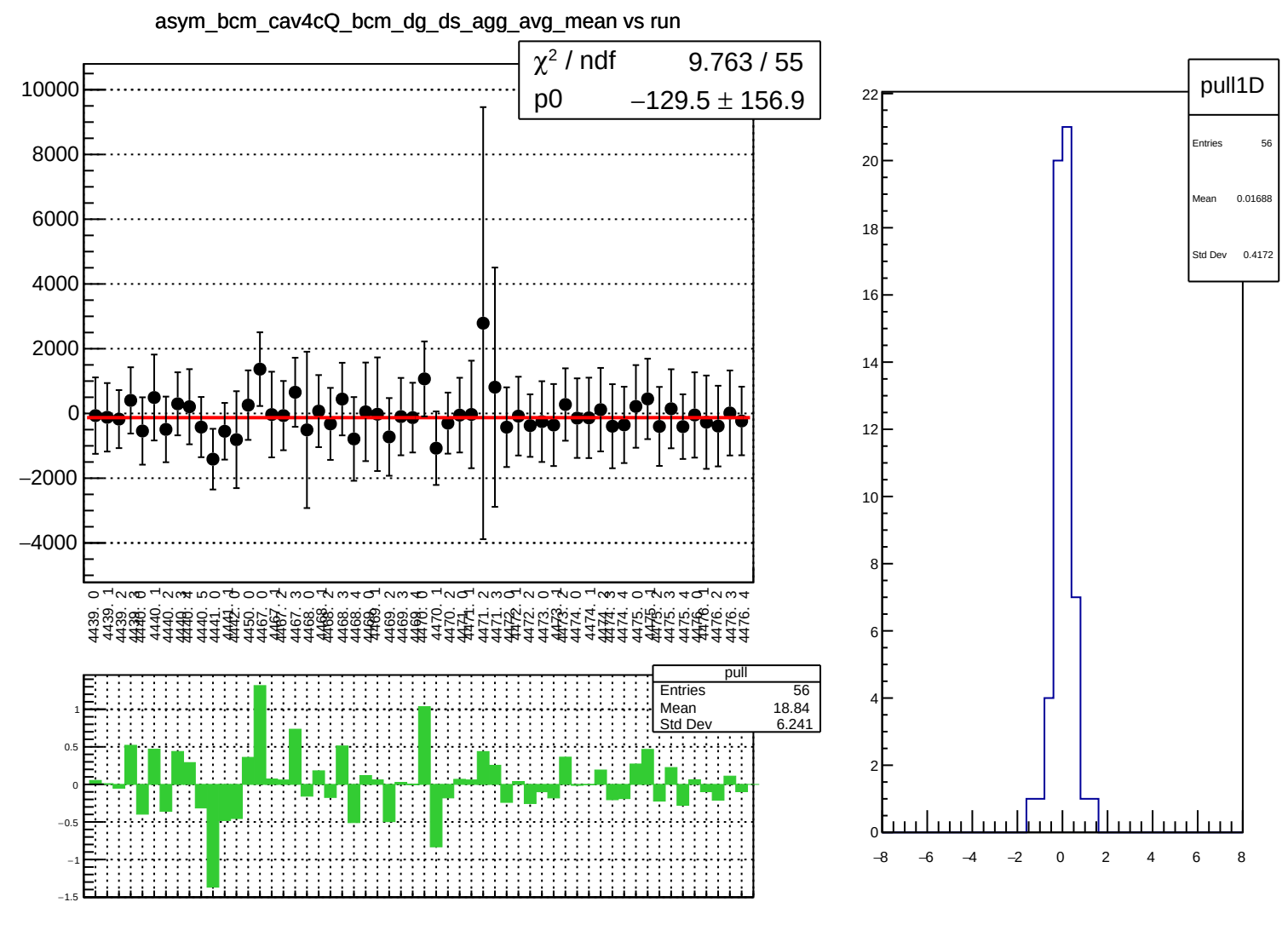

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 12.61 / 55
p0 −152.8 ± 160.1
pull
Entries 56
Mean 8.118
Std Dev 26.65
pull1D
Entries 56
Mean 0.02069
Std Dev 0.474

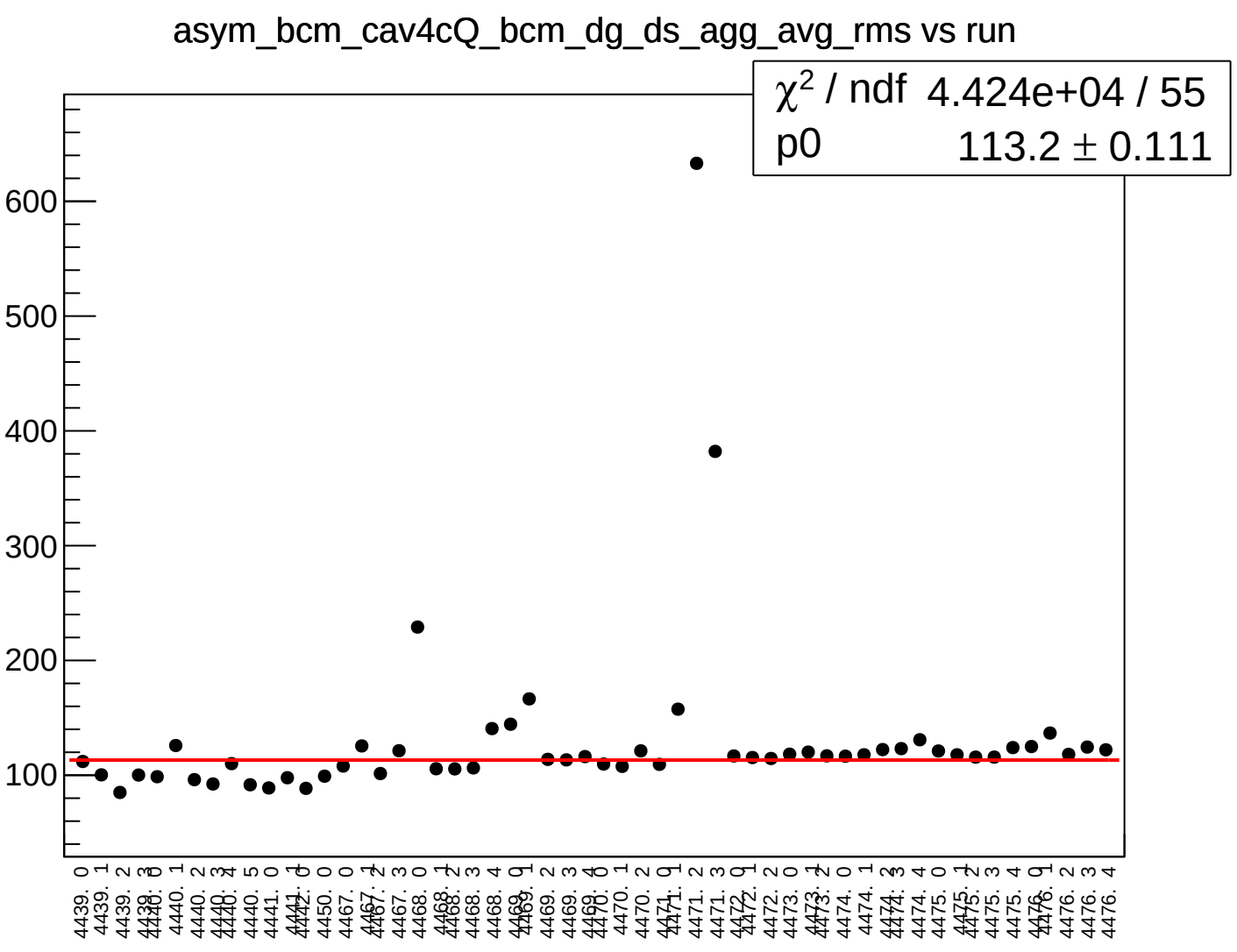

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 4.592e+04 / 55
p0 115.4 ± 0.1132
700
600
500
400
300
200
100

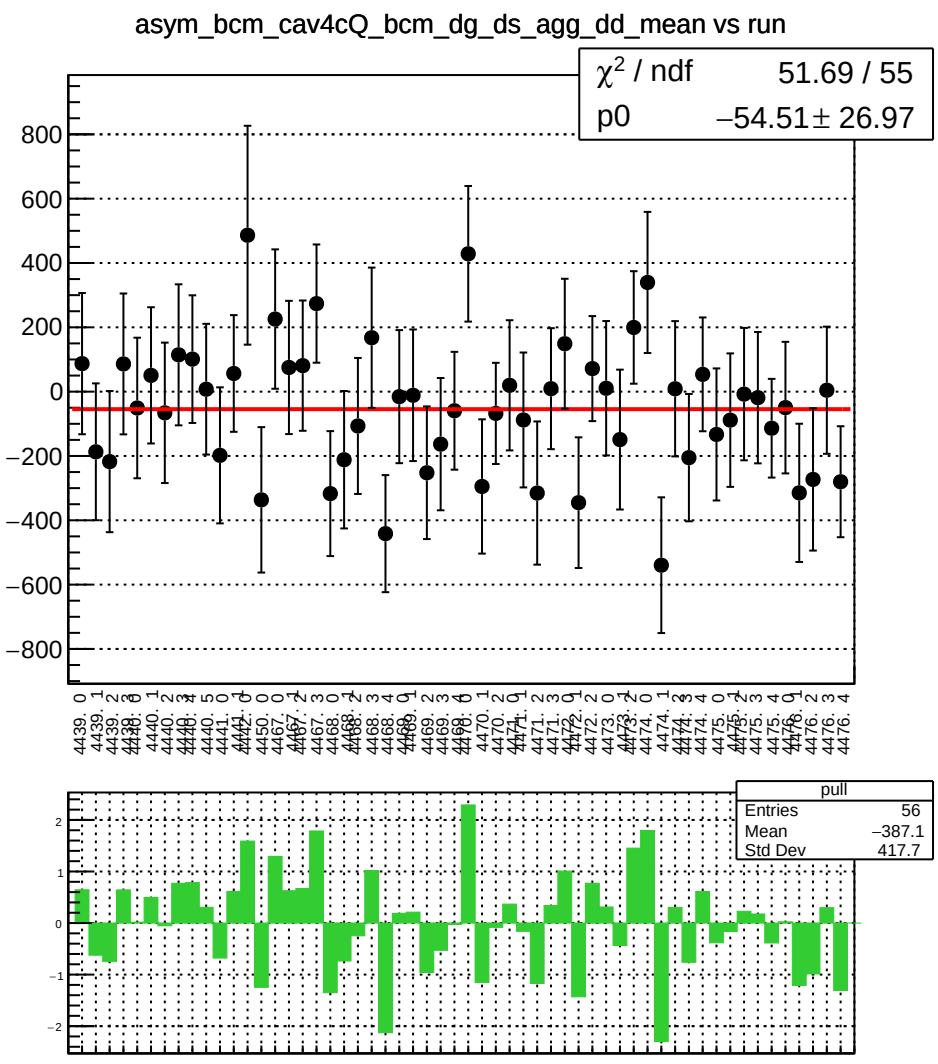

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 62.18 / 55
p0 −38.5 ± 31.65
pull
Entries 56
Mean 155.2
Std Dev 143

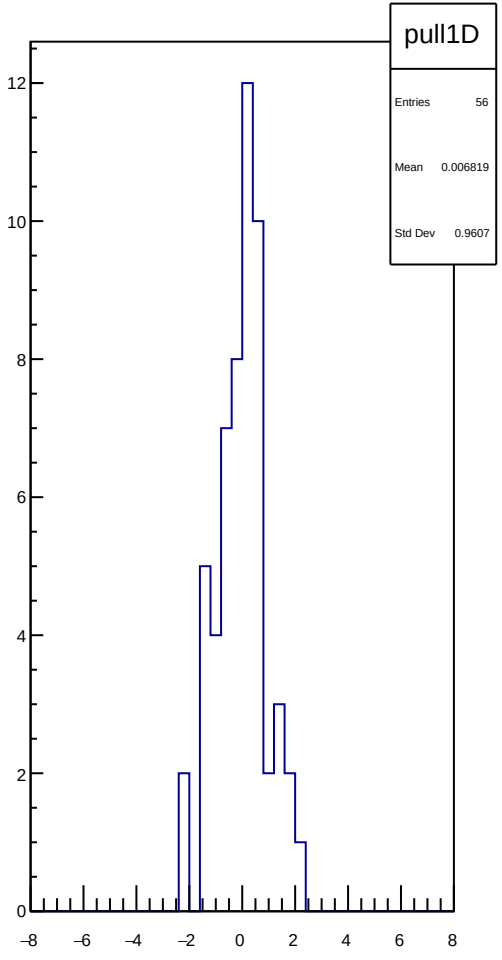

pull1D
Entries 56
Mean −0.007027
Std Dev 1.054

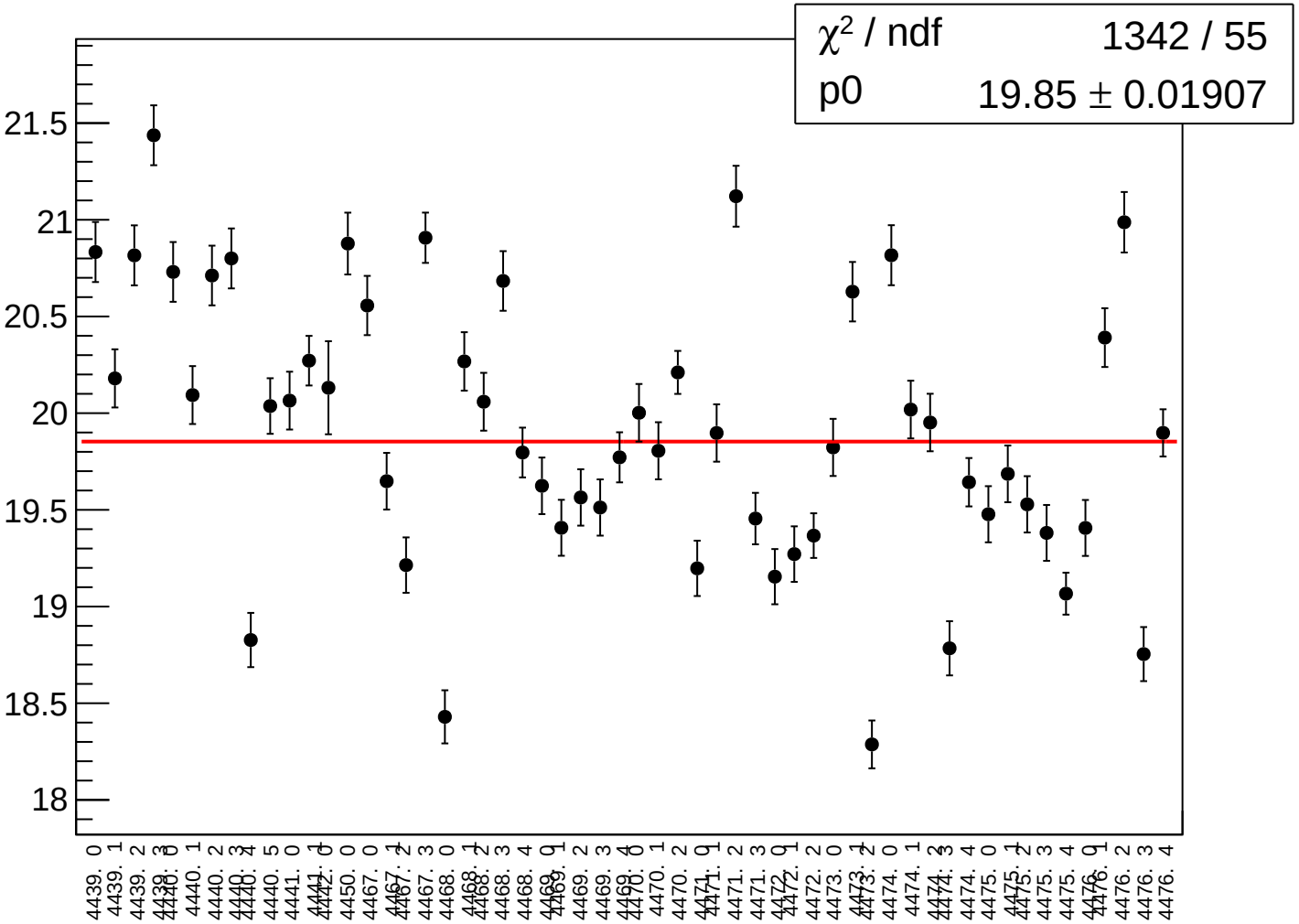

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1981 / 55
p0 23.29 ± 0.02238
30
29
28
27
26
25
24
23
22
21

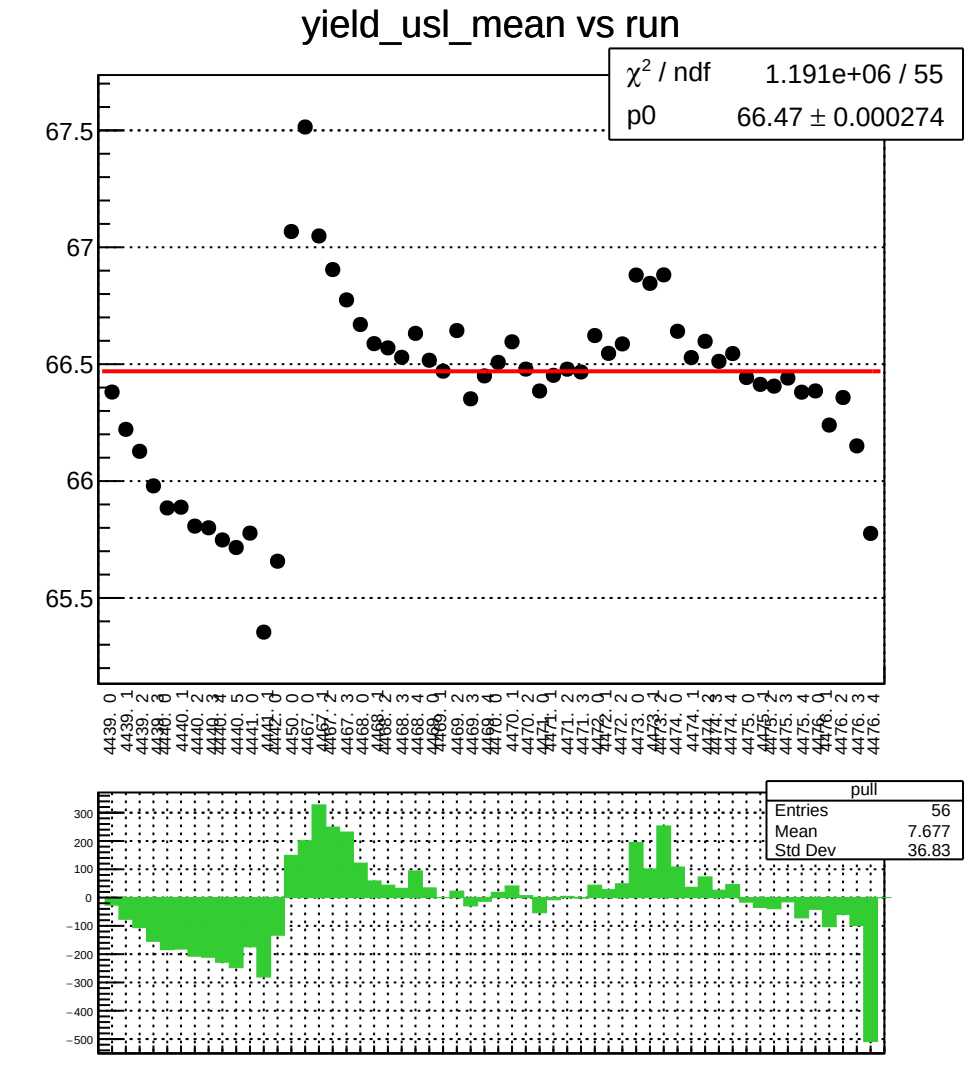

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 9.763 / 55
p0 −129.5 ± 156.9
pull
Entries 56
Mean 18.84
Std Dev 6.241
pull1D
Entries 56
Mean 0.01688
Std Dev 0.4172

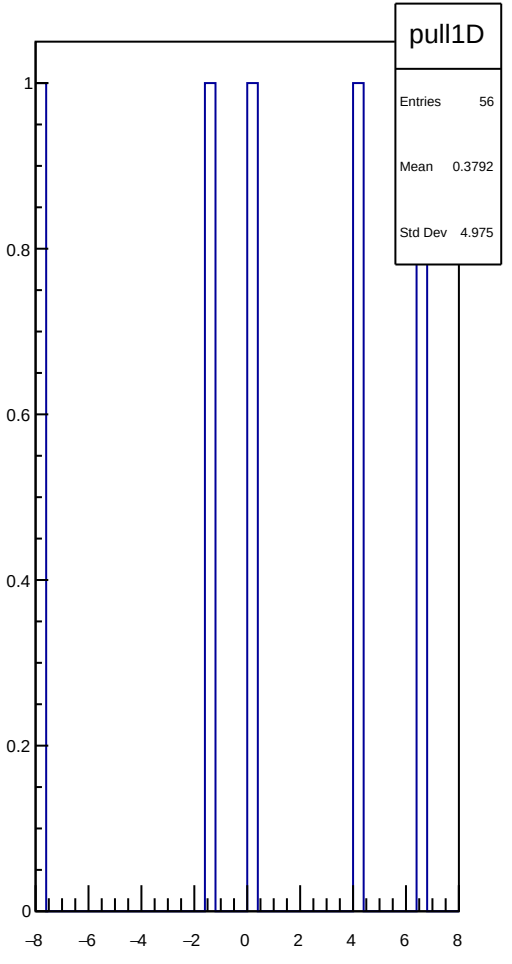

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4.424e+04 / 55
p0 113.2 ± 0.111
600
500
400
300
200
100

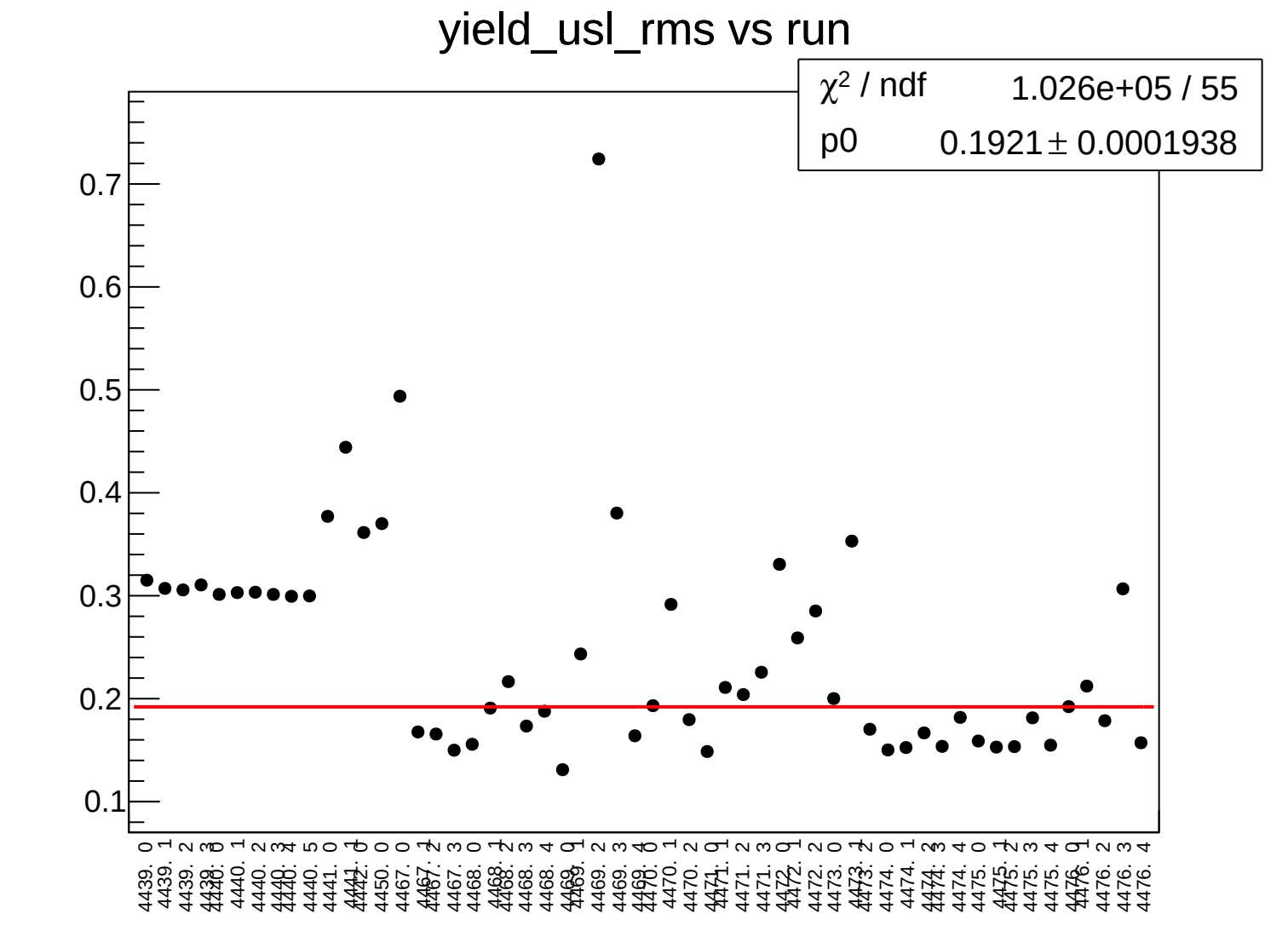

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 51.69 / 55
p0 −54.51± 26.97
pull
Entries 56
Mean −387.1
Std Dev 417.7

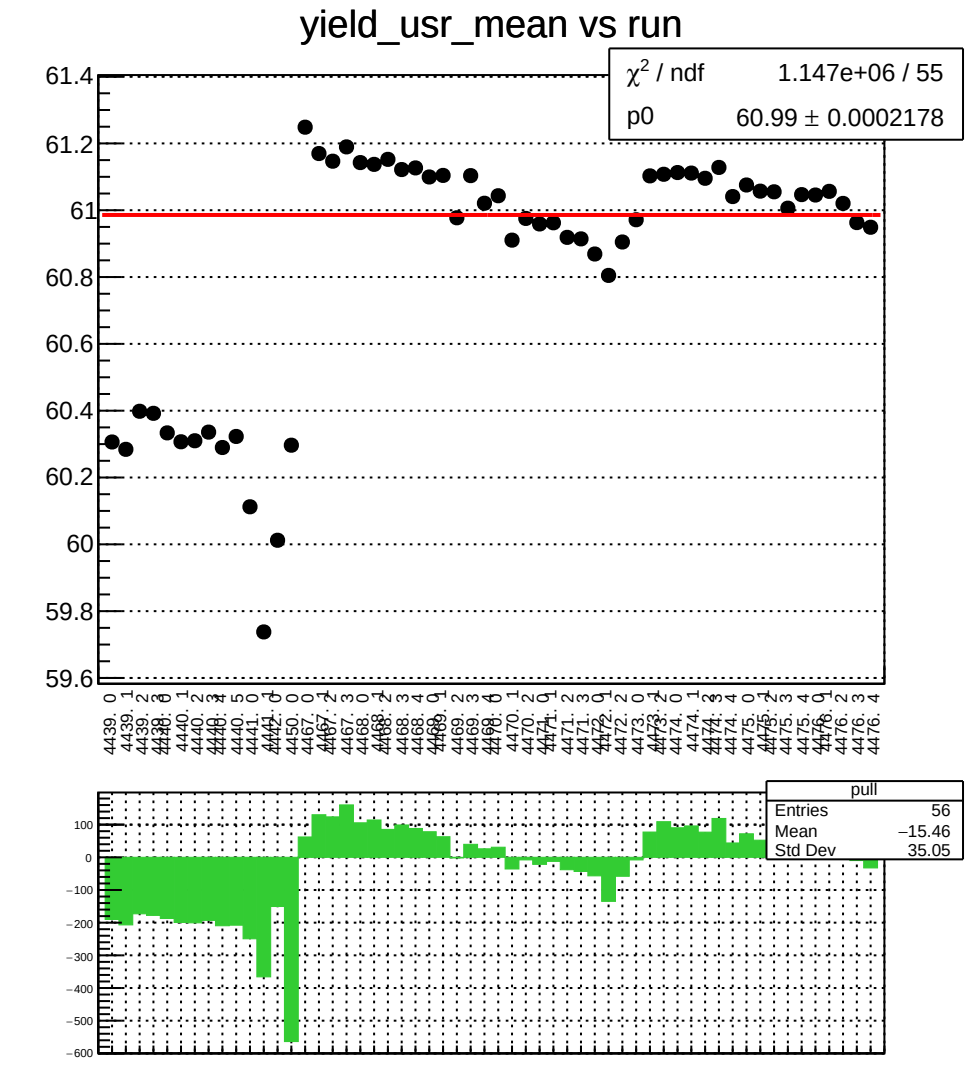

pull1D
Entries 56
Mean 0.006819
Std Dev 0.9607

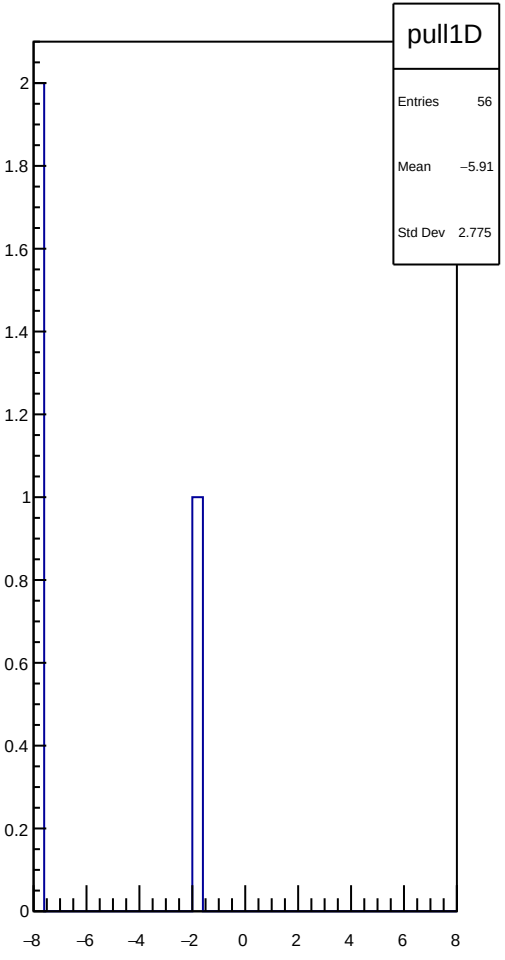

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1342 / 55
p0 19.85 ± 0.01907
21.5
21
20.5
20
19.5
19
18.5
18

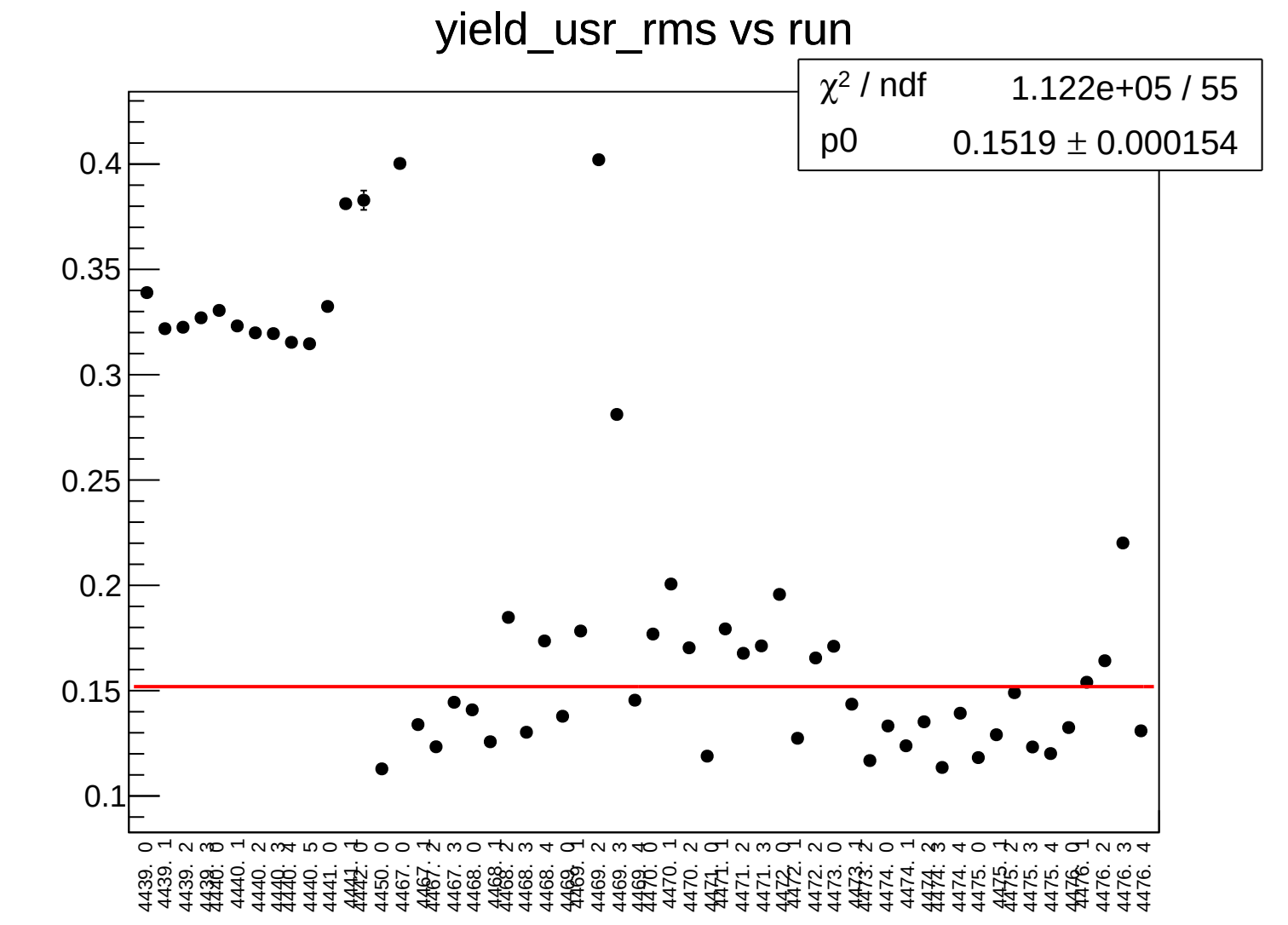

yield_usl_mean vs run
χ² / ndf 1.191e+06 / 55
p0 66.47 ± 0.000274
67.5
67
66.5
66
65.5
pull
Entries 56
Mean 7.677
Std Dev 36.83
300
200
100
0
−100
−200
−300
−400
−500

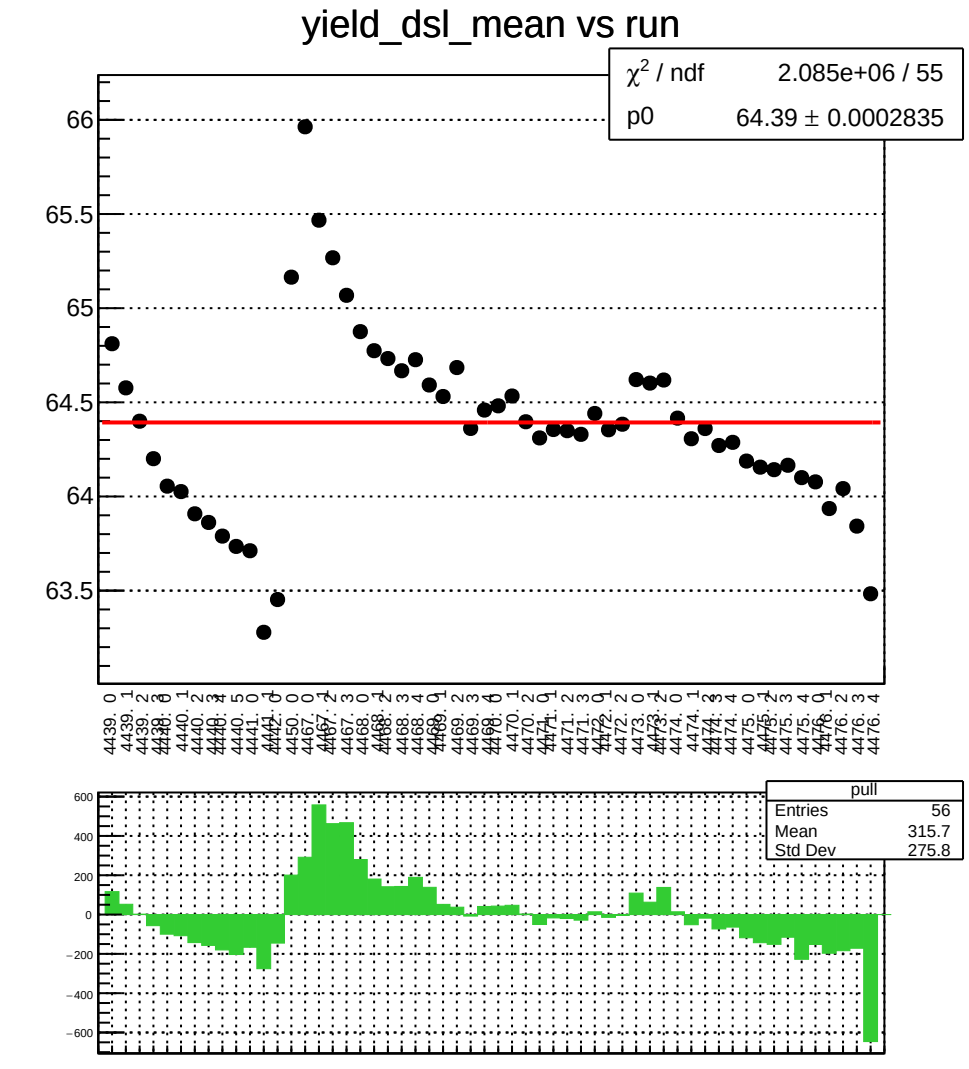

pull1D
Entries 56
Mean 0.3792
Std Dev 4.975
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

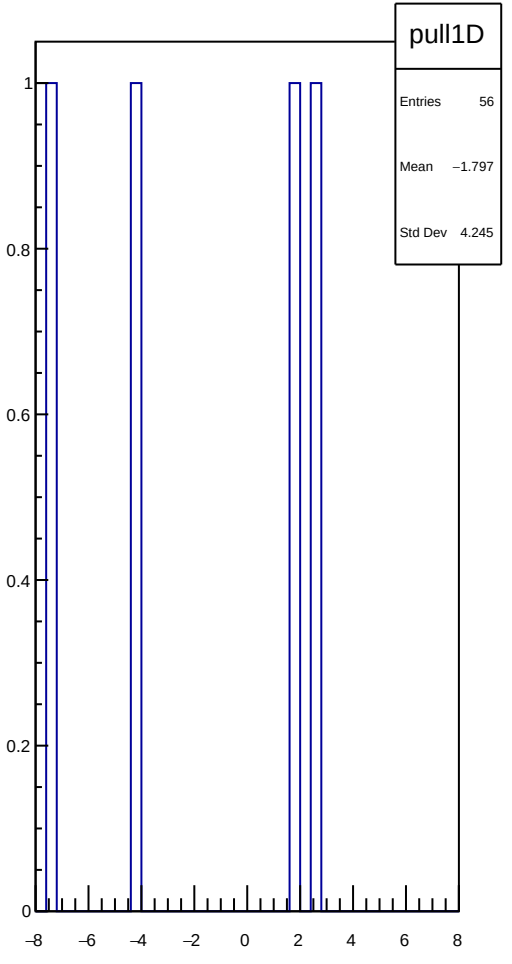

yield_usl_rms vs run
χ² / ndf 1.026e+05 / 55
p0 0.1921 ± 0.0001938
0.7
0.6
0.5
0.4
0.3
0.2
0.1

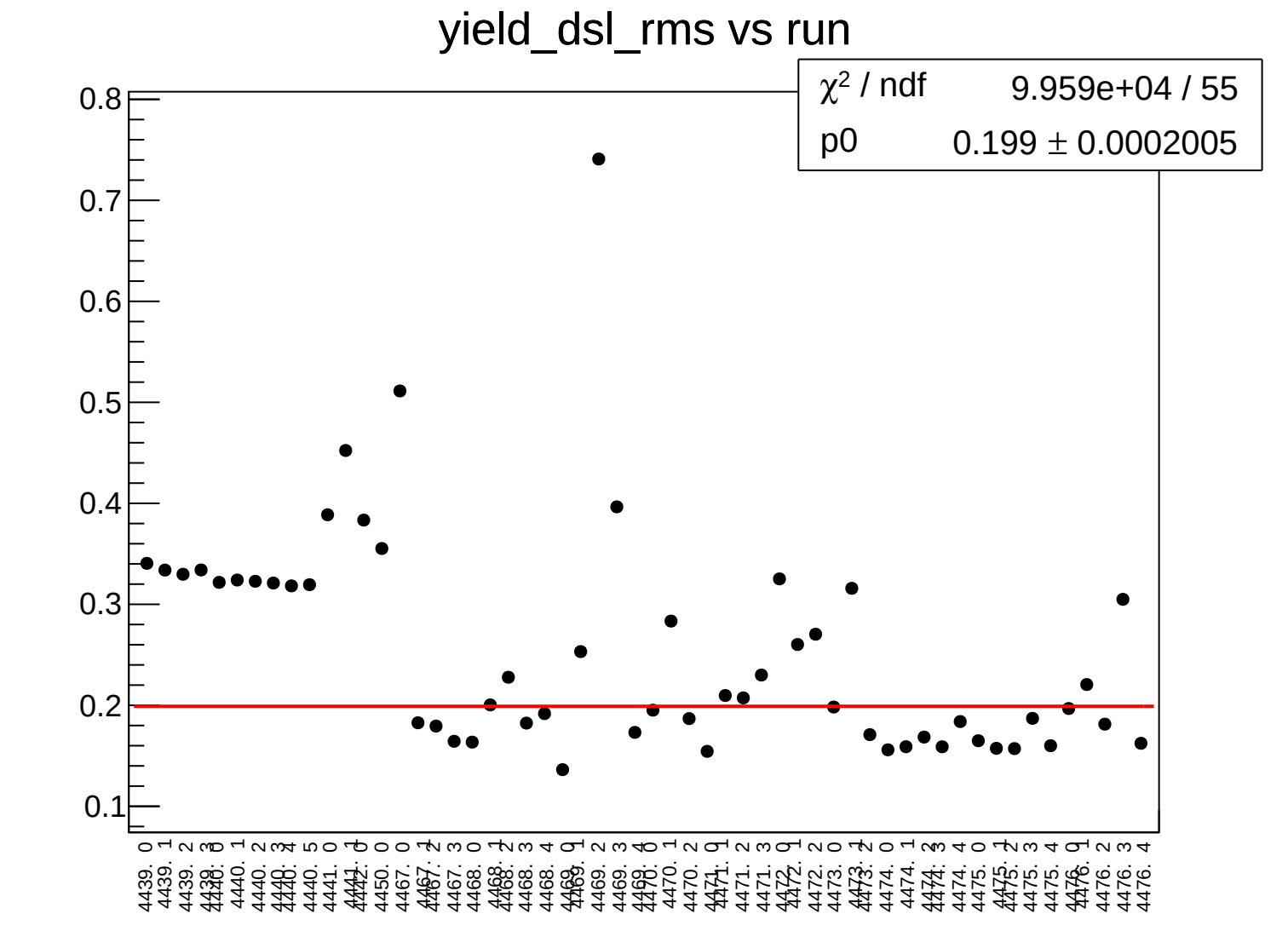

yield_usr_mean vs run
χ² / ndf 1.147e+06 / 55
p0 60.99 ± 0.0002178
pull
Entries 56
Mean −15.46
Std Dev 35.05

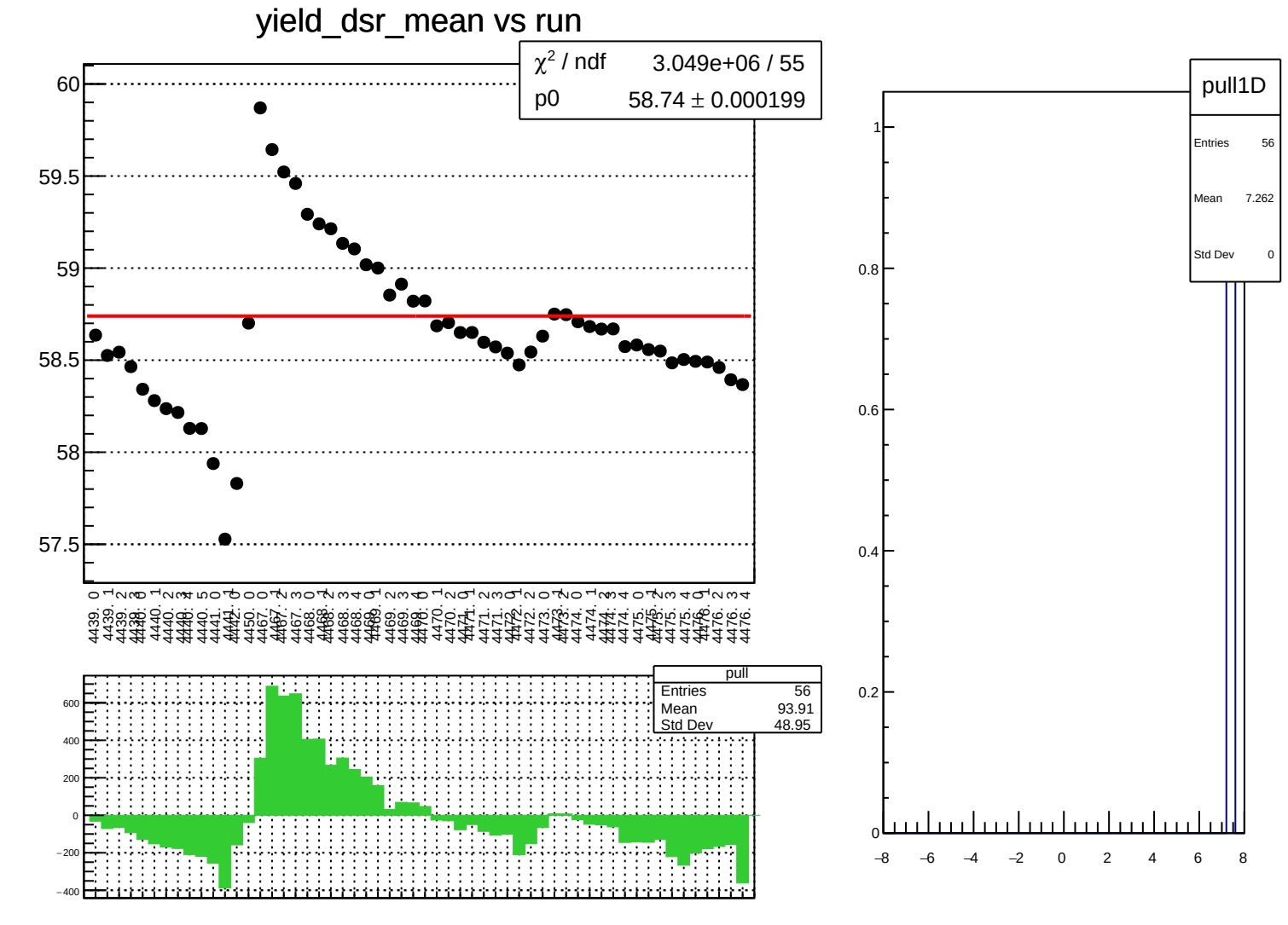

pull1D
Entries 56
Mean −5.91
Std Dev 2.775

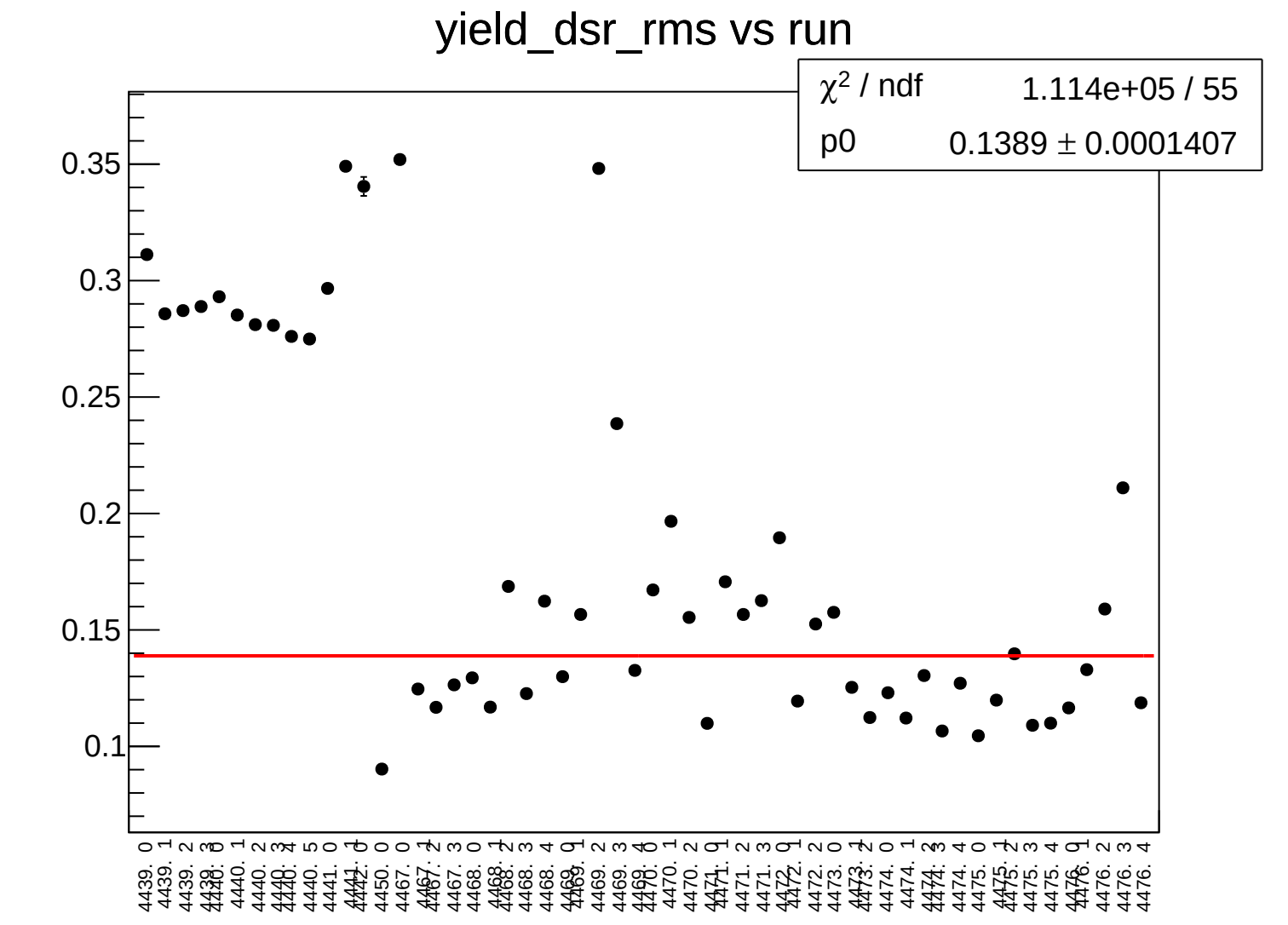

yield_usr_rms vs run
χ² / ndf 1.122e+05 / 55
p0 0.1519 ± 0.000154
0.4
0.35
0.3
0.25
0.2
0.15
0.1

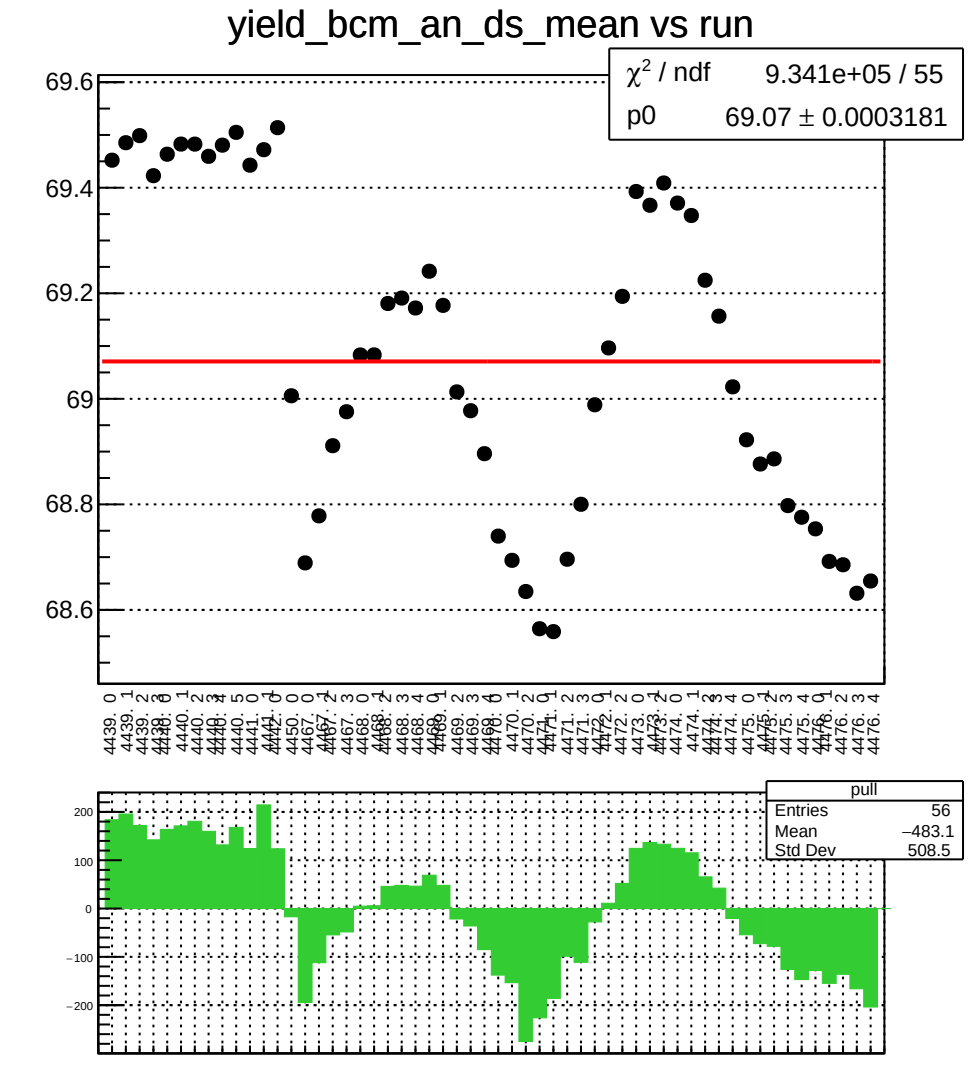

yield_dsl_mean vs run
χ² / ndf 2.085e+06 / 55
p0 64.39 ± 0.0002835
66
65.5
65
64.5
64
63.5
pull
Entries 56
Mean 315.7
Std Dev 275.8
600
400
200
0
−200
−400
−600

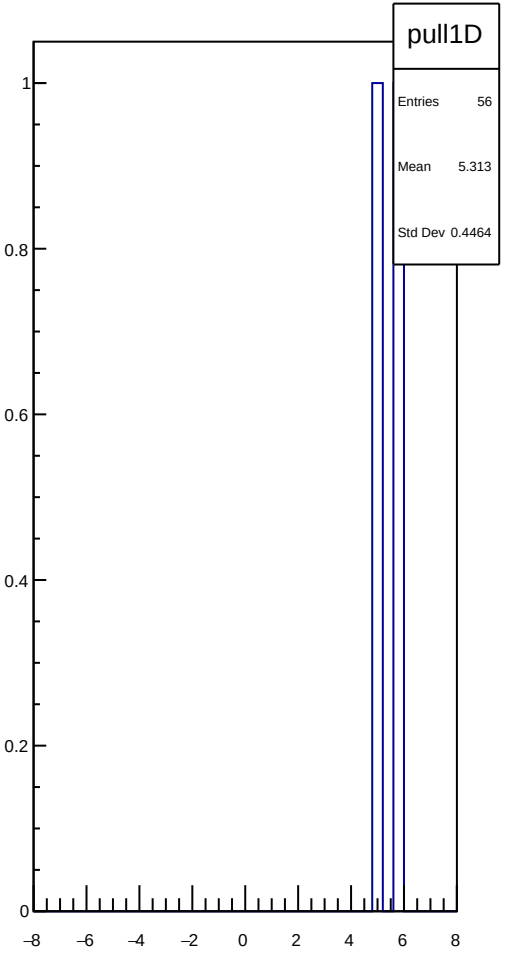

pull1D
Entries 56
Mean −1.797
Std Dev 4.245
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

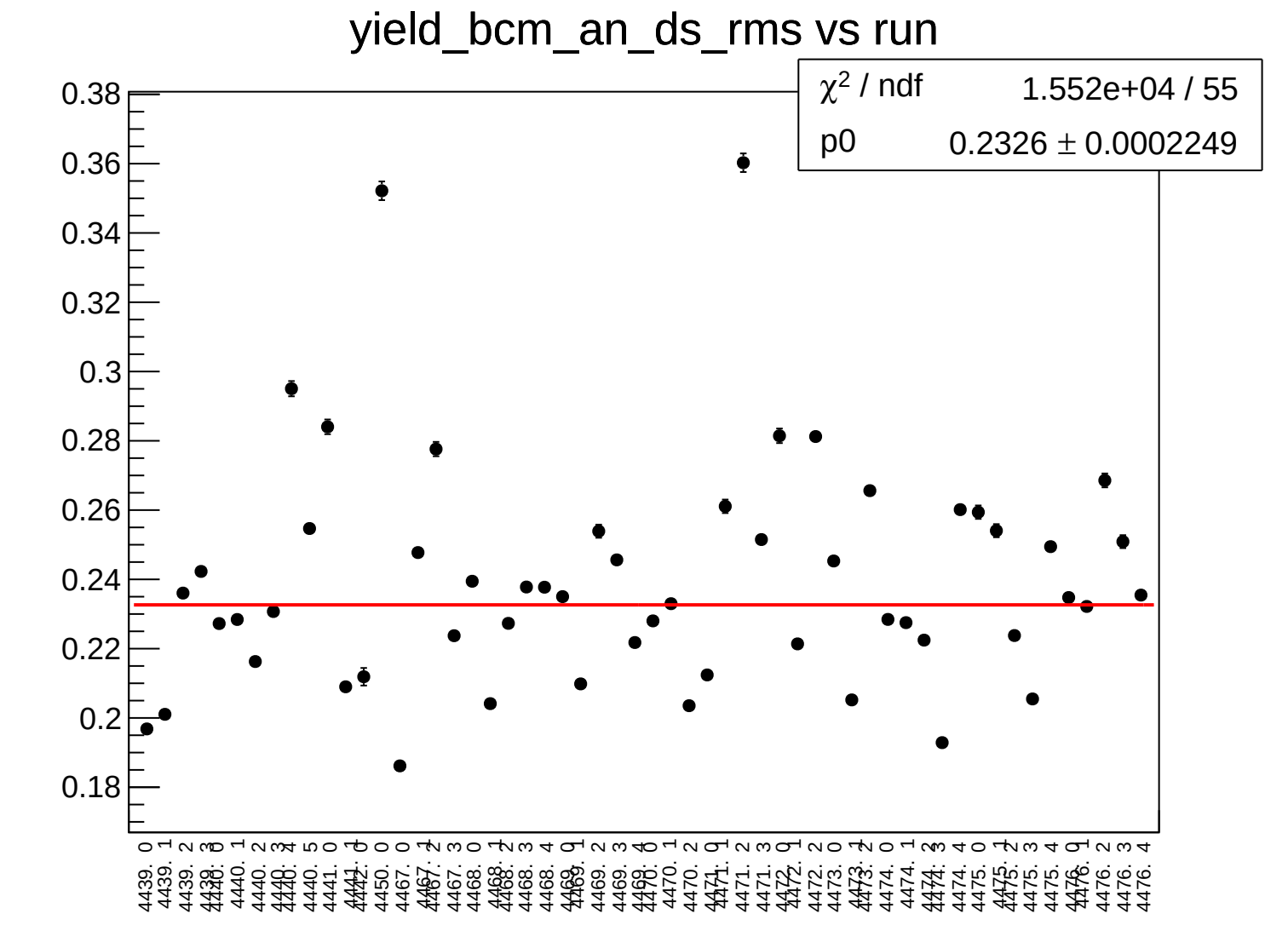

yield_dsl_rms vs run
χ² / ndf 9.959e+04 / 55
p0 0.199 ± 0.0002005
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

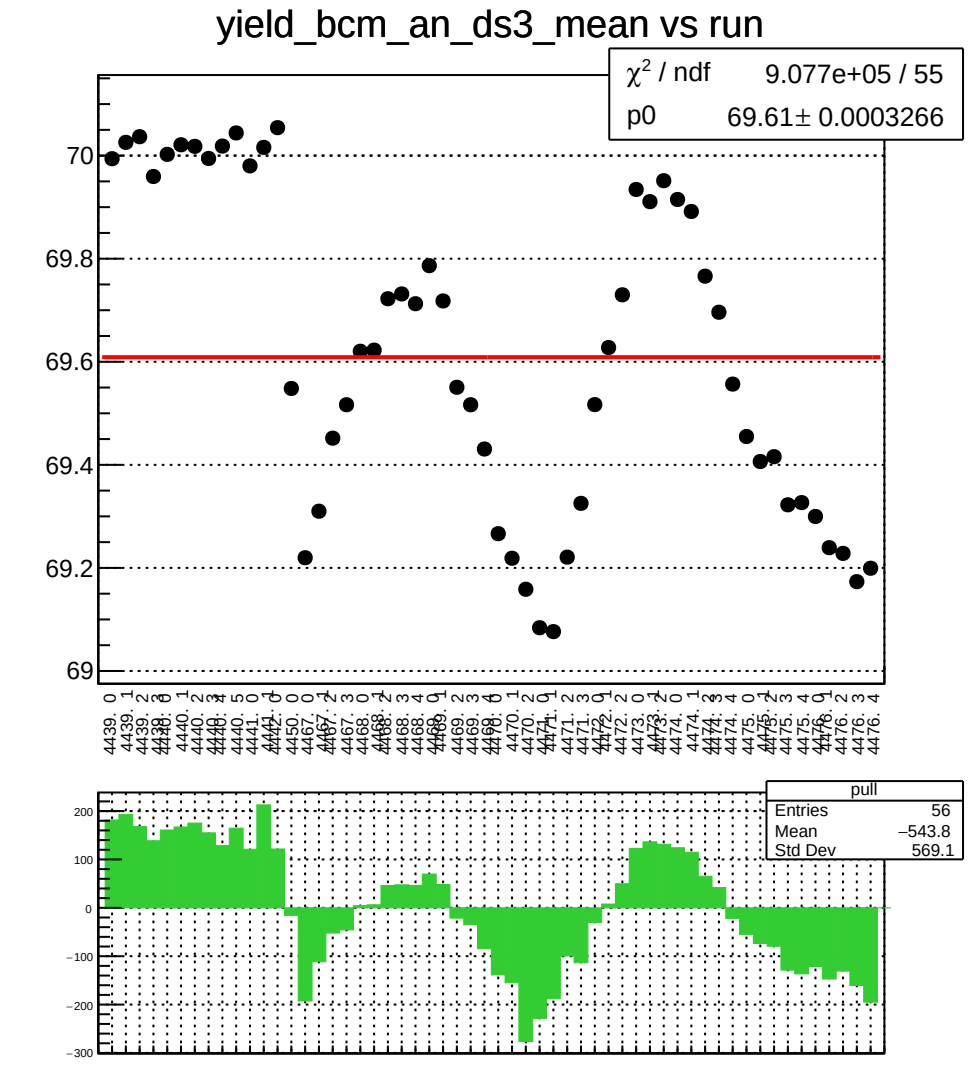

yield_dsr_mean vs run
χ² / ndf 3.049e+06 / 55
p0 58.74 ± 0.000199
60
59.5
59
58.5
58
57.5
pull
Entries 56
Mean 93.91
Std Dev 48.95
600
400
200
0
−200
−400
pull1D
Entries 56
Mean 7.262
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

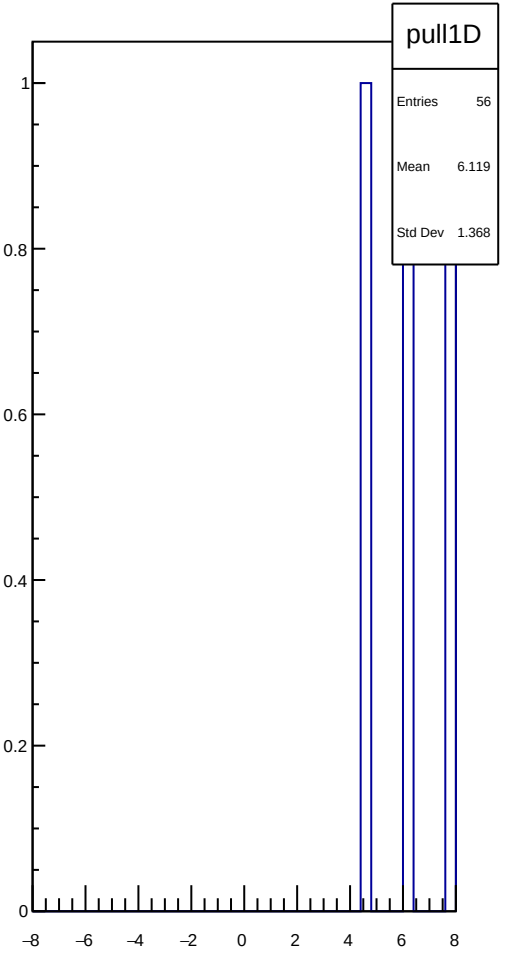

yield_dsr_rms vs run
χ² / ndf 1.114e+05 / 55
p0 0.1389 ± 0.0001407
0.35
0.3
0.25
0.2
0.15
0.1

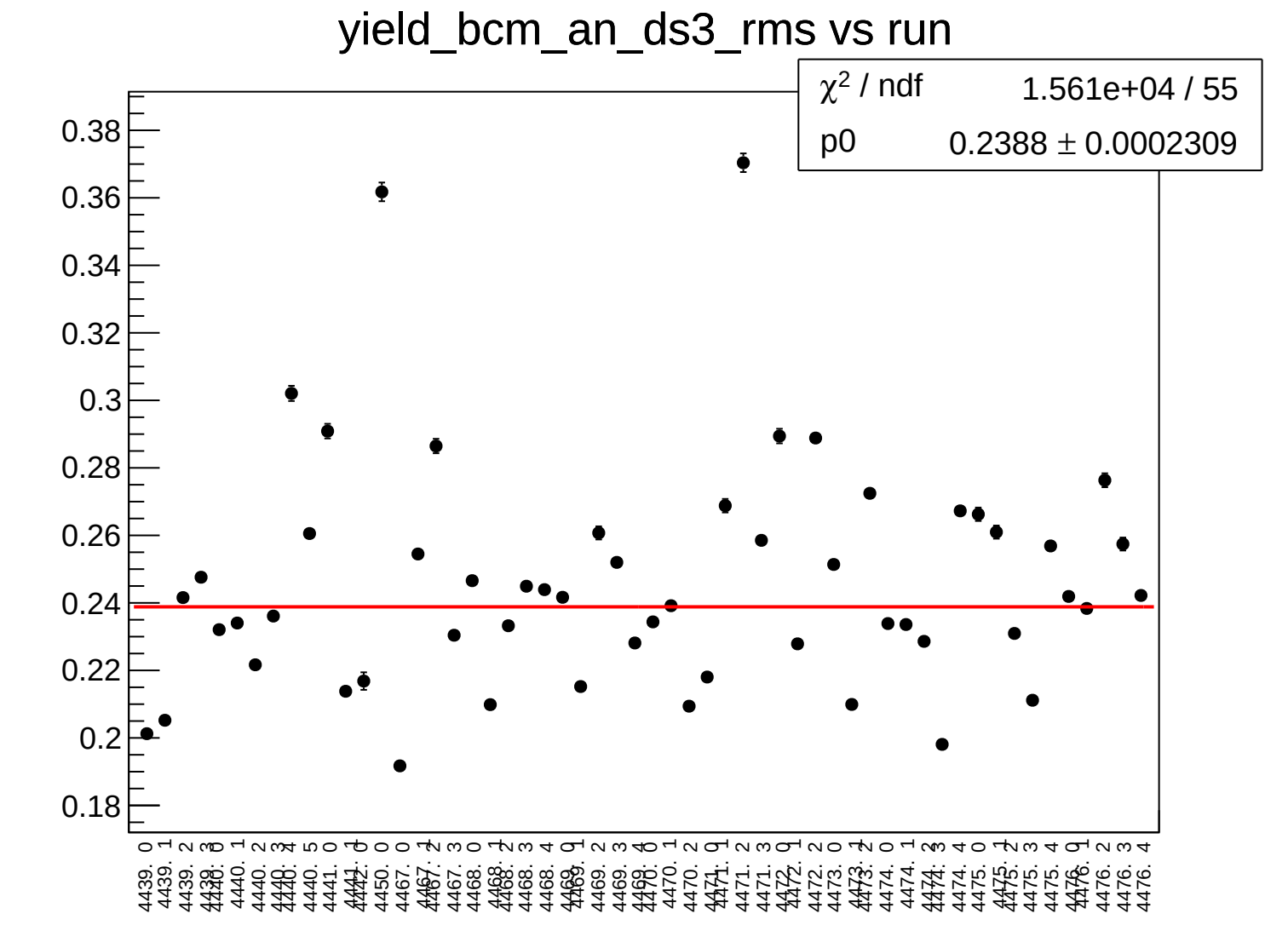

yield_bcm_an_ds_mean vs run
χ² / ndf 9.341e+05 / 55
p0 69.07 ± 0.0003181
69.6
69.4
69.2
69
68.8
68.6
pull
Entries 56
Mean −483.1
Std Dev 508.5
200
100
0
−100
−200

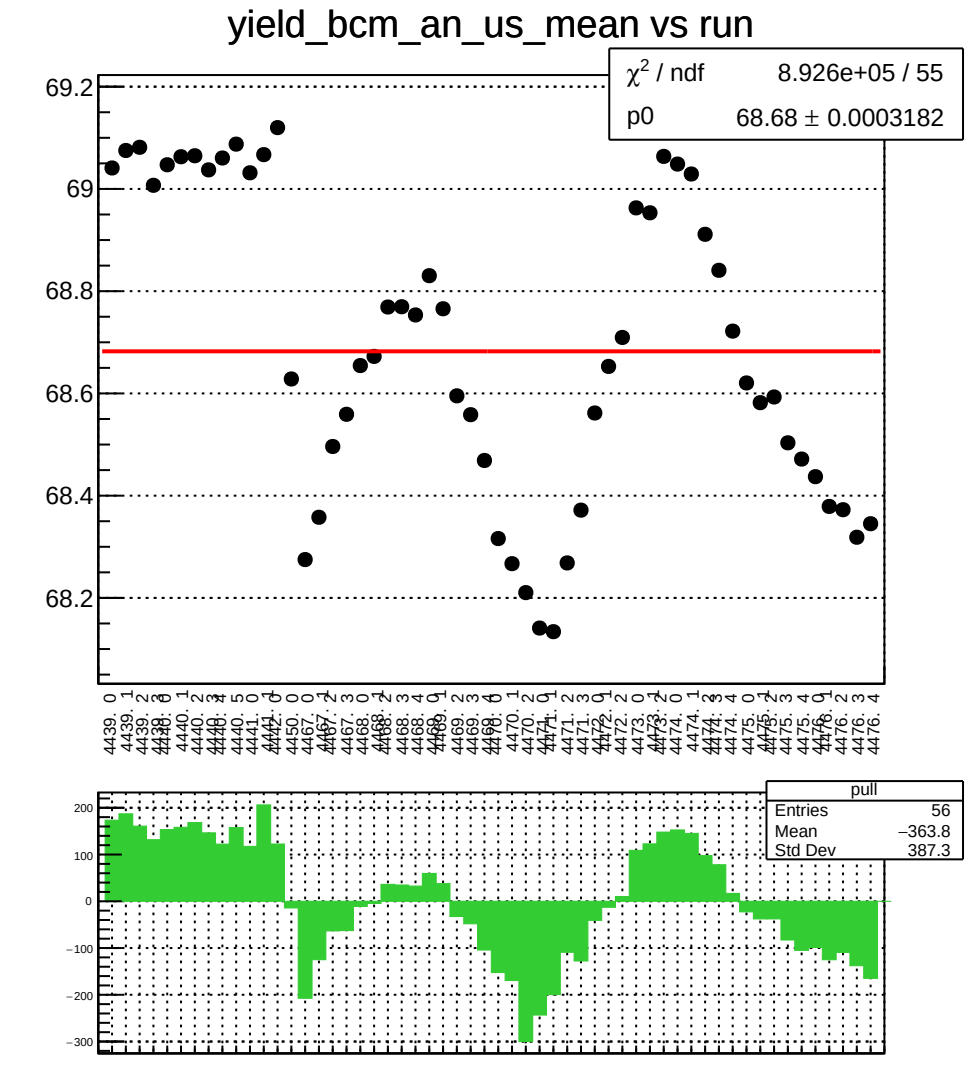

pull1D
Entries 56
Mean 5.313
Std Dev 0.4464
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

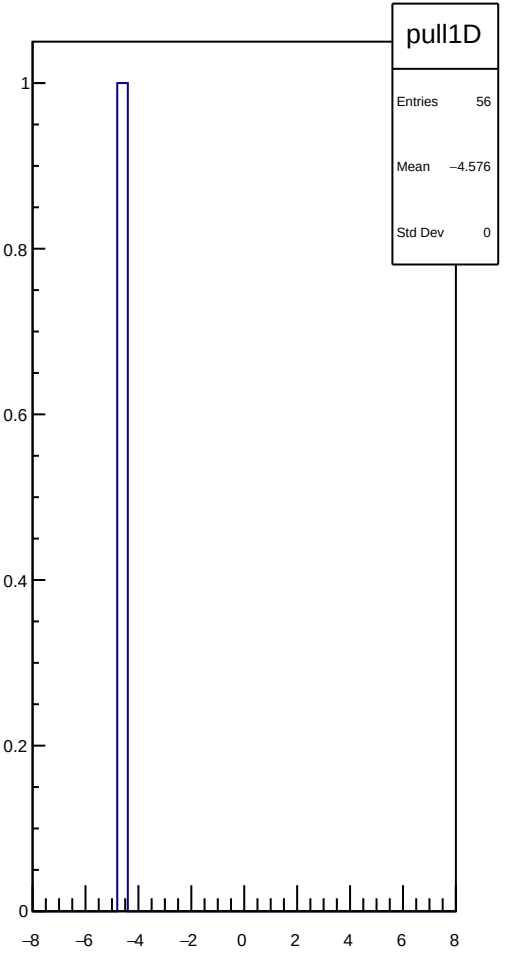

yield_bcm_an_ds_rms vs run
χ² / ndf 1.552e+04 / 55
p0 0.2326 ± 0.0002249
0.38
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18

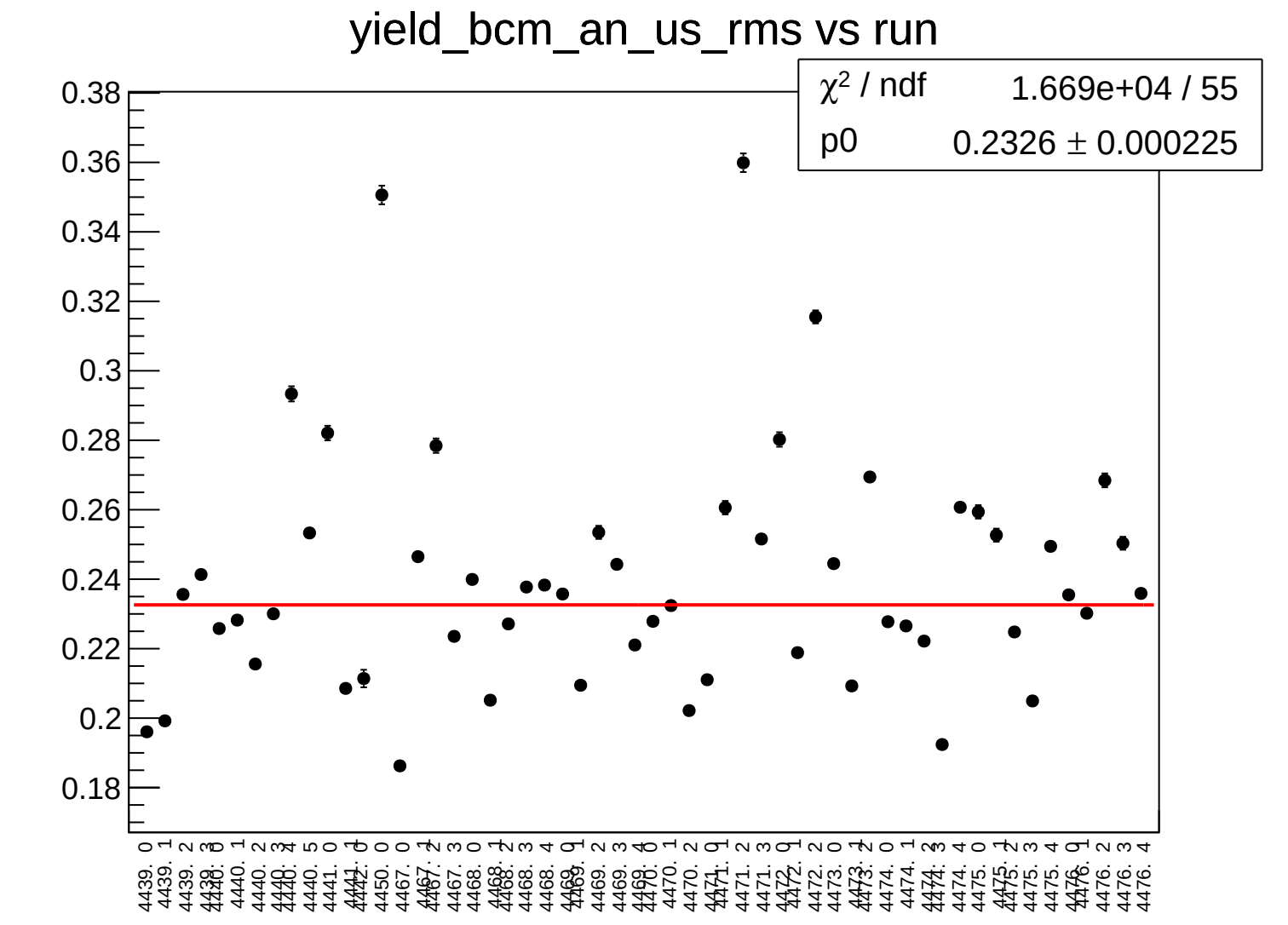

yield_bcm_an_ds3_mean vs run
χ² / ndf 9.077e+05 / 55
p0 69.61± 0.0003266
70
69.8
69.6
69.4
69.2
69
pull
Entries 56
Mean −543.8
Std Dev 569.1
200
100
0
−100
−200
−300

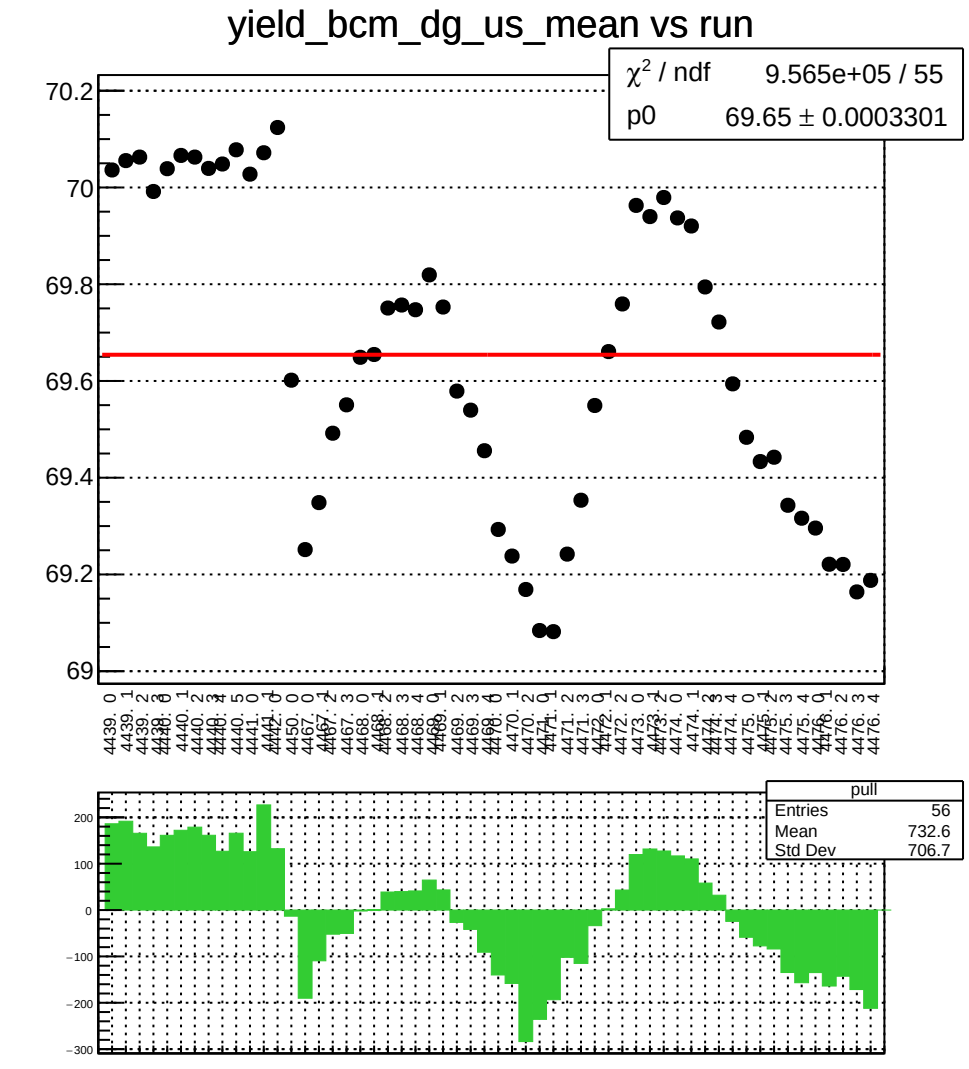

pull1D
Entries 56
Mean 6.119
Std Dev 1.368
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

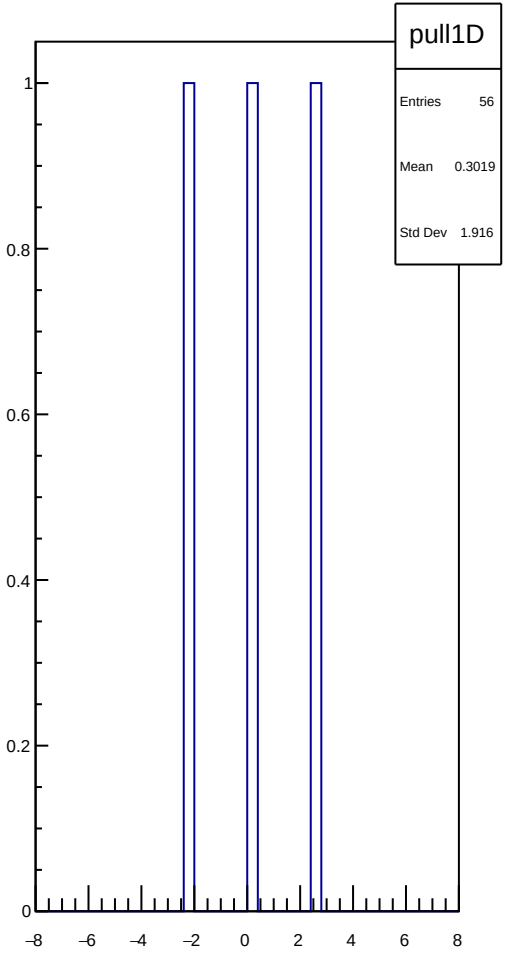

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.561e+04 / 55
p0 0.2388 ± 0.0002309
0.38
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

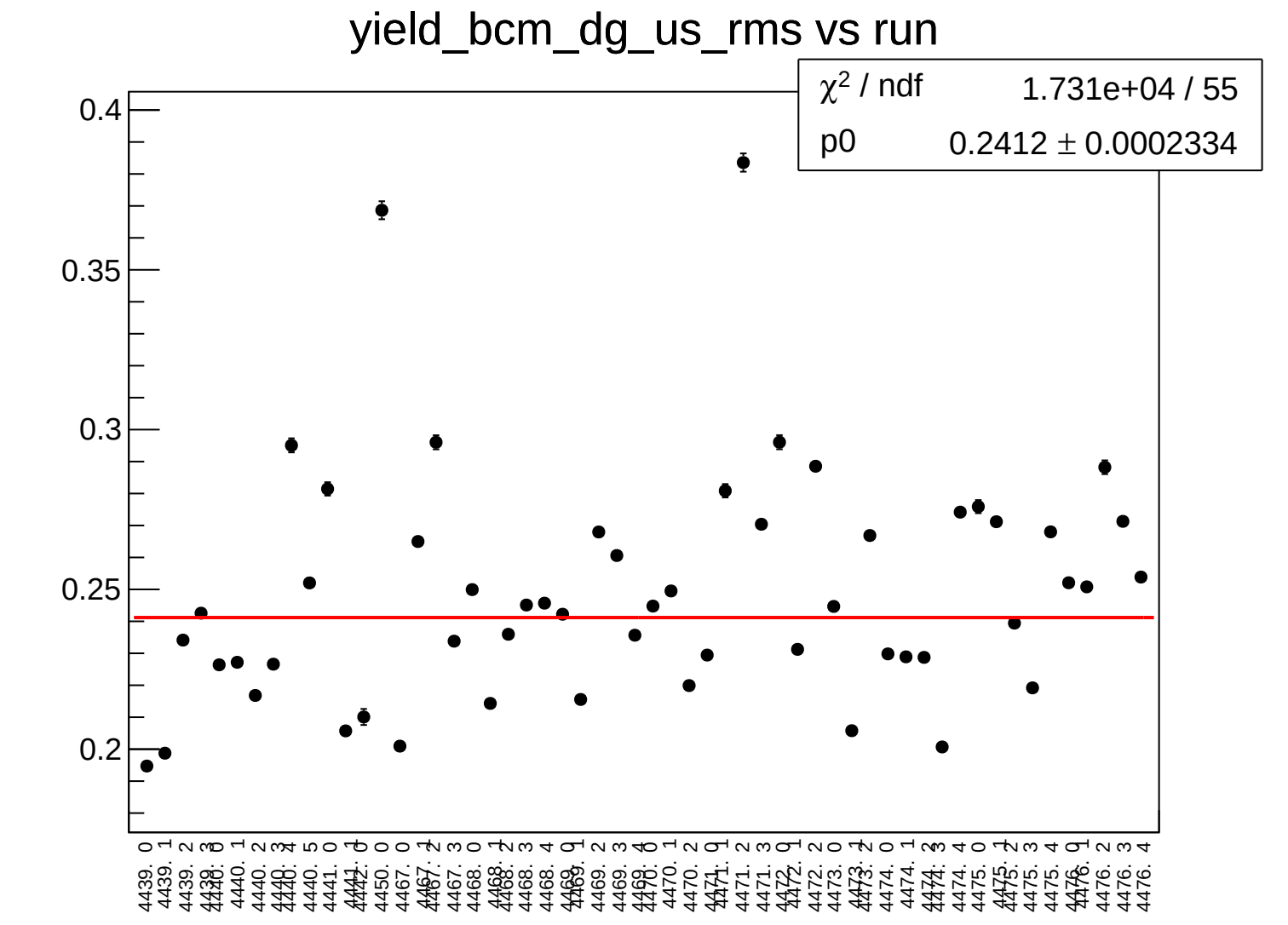

yield_bcm_an_us_mean vs run
χ² / ndf 8.926e+05 / 55
p0 68.68 ± 0.0003182
69.2
69
68.8
68.6
68.4
68.2
pull
Entries 56
Mean −363.8
Std Dev 387.3
200
100
0
−100
−200
−300

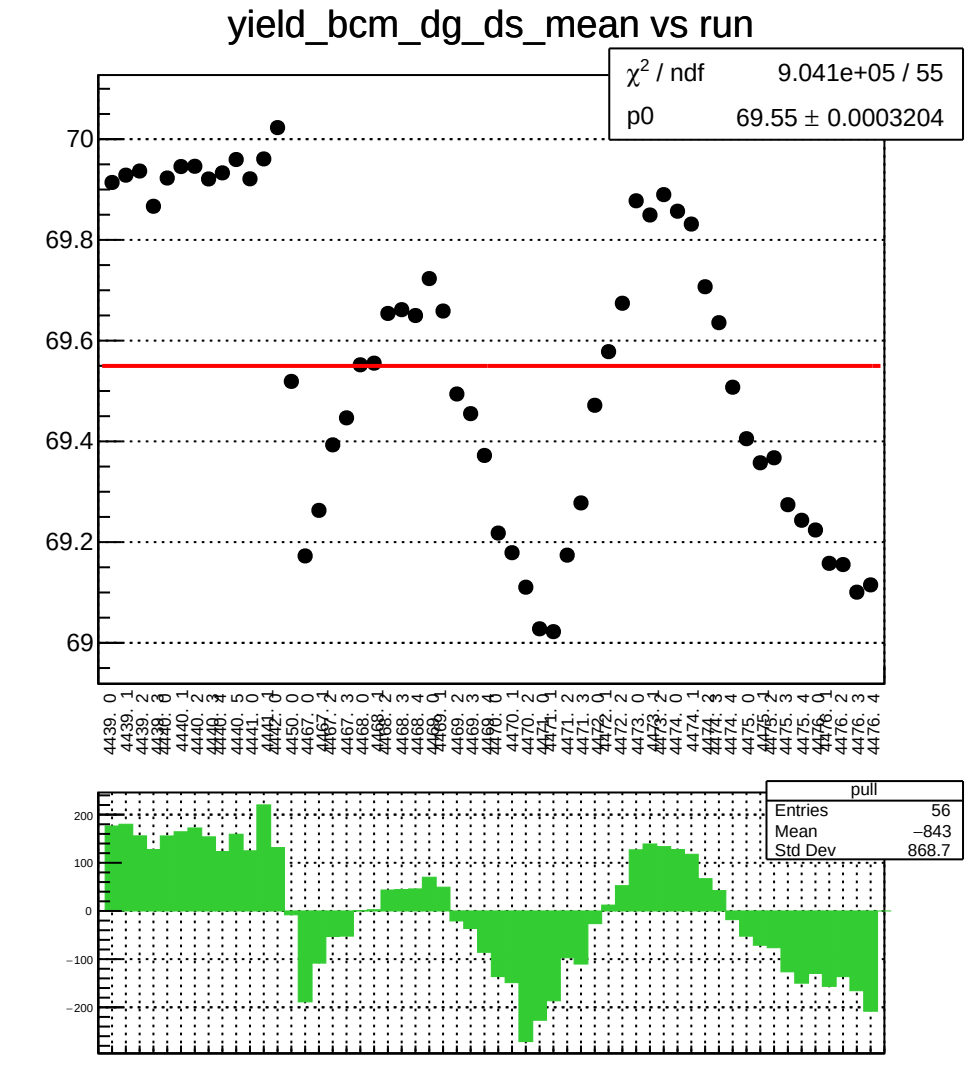

pull1D
Entries 56
Mean −4.576
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

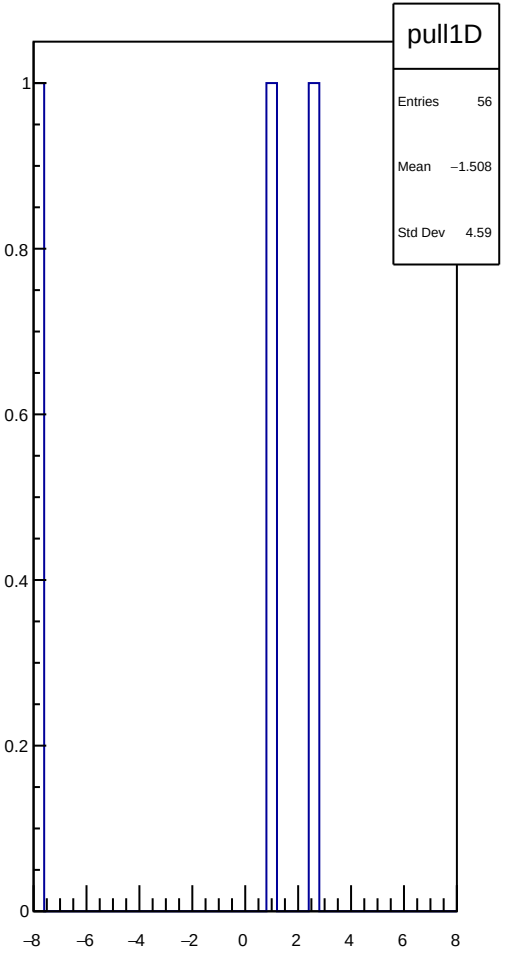

yield_bcm_an_us_rms vs run
χ² / ndf 1.669e+04 / 55
p0 0.2326 ± 0.000225
0.38
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18

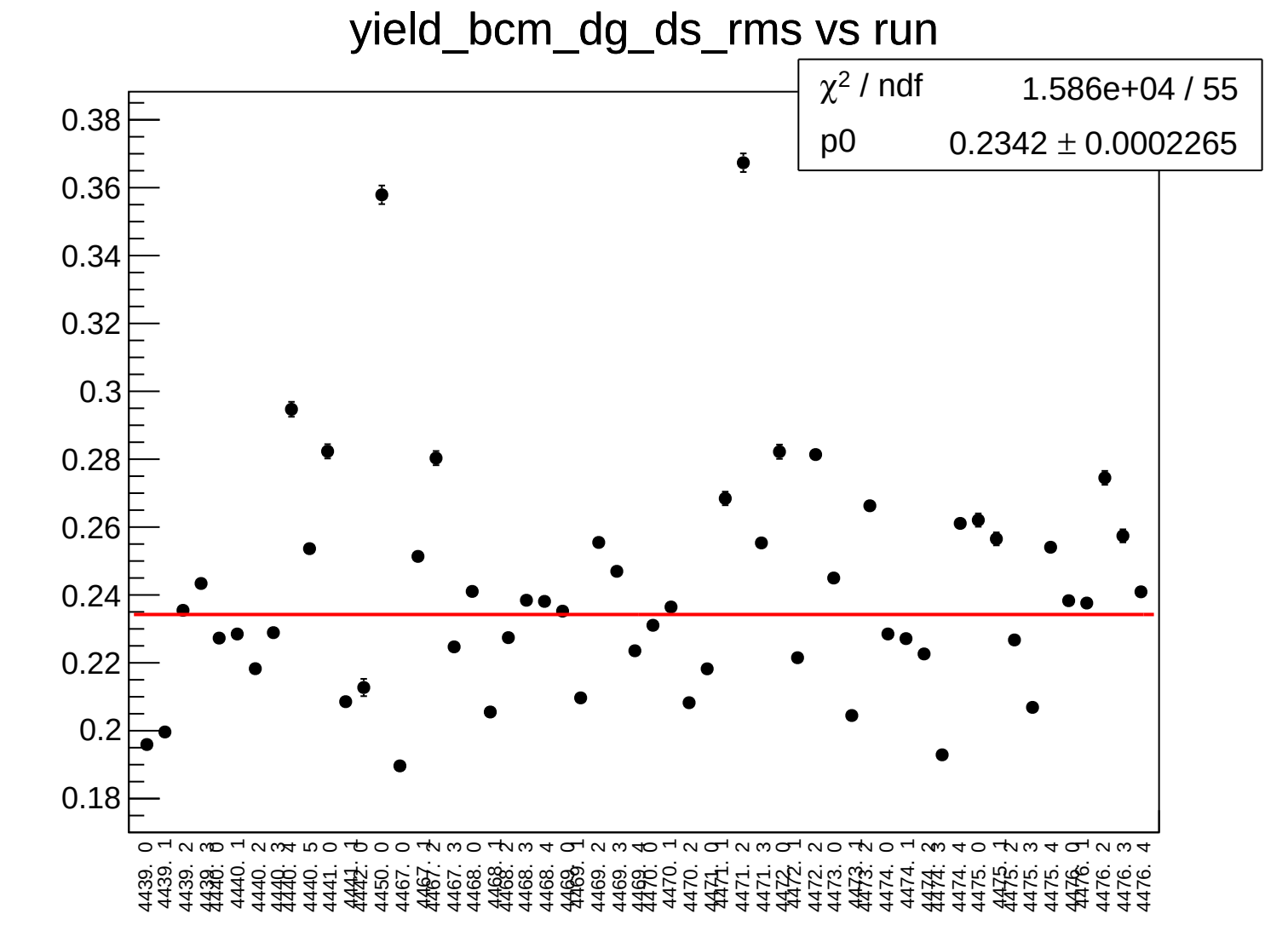

yield_bcm_dg_us_mean vs run
χ² / ndf 9.565e+05 / 55
p0 69.65 ± 0.0003301
70.2
70
69.8
69.6
69.4
69.2
69
pull
Entries 56
Mean 732.6
Std Dev 706.7
200
100
0
−100
−200
−300

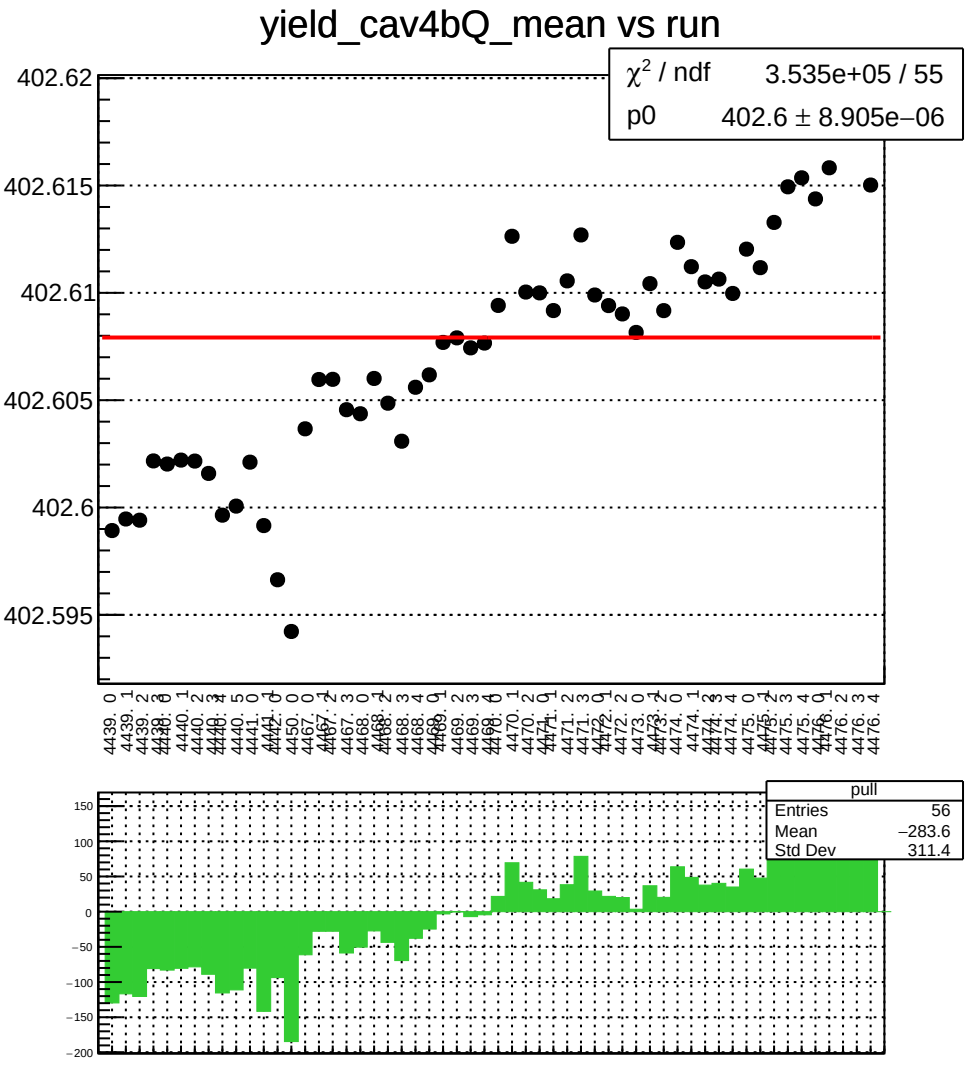

pull1D
Entries 56
Mean 0.3019
Std Dev 1.916
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

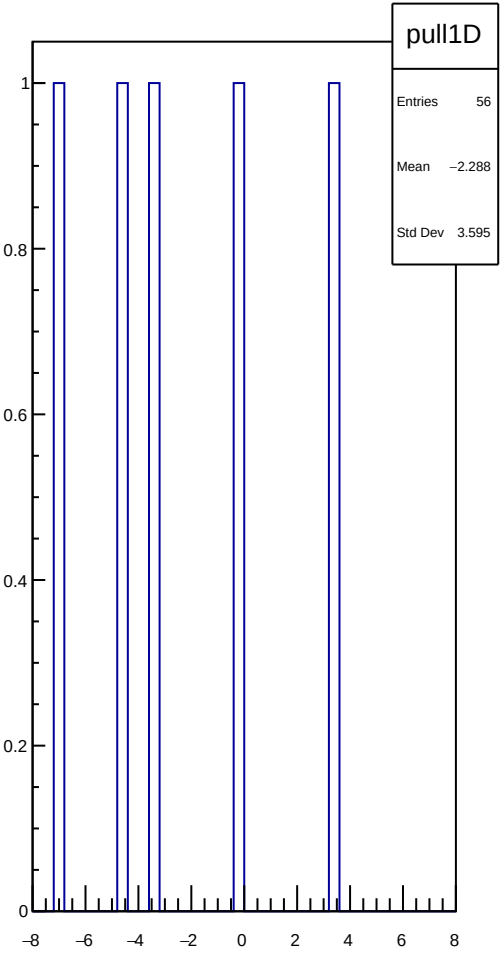

yield_bcm_dg_us_rms vs run
χ² / ndf 1.731e+04 / 55
p0 0.2412 ± 0.0002334
0.4
0.35
0.3
0.25
0.2

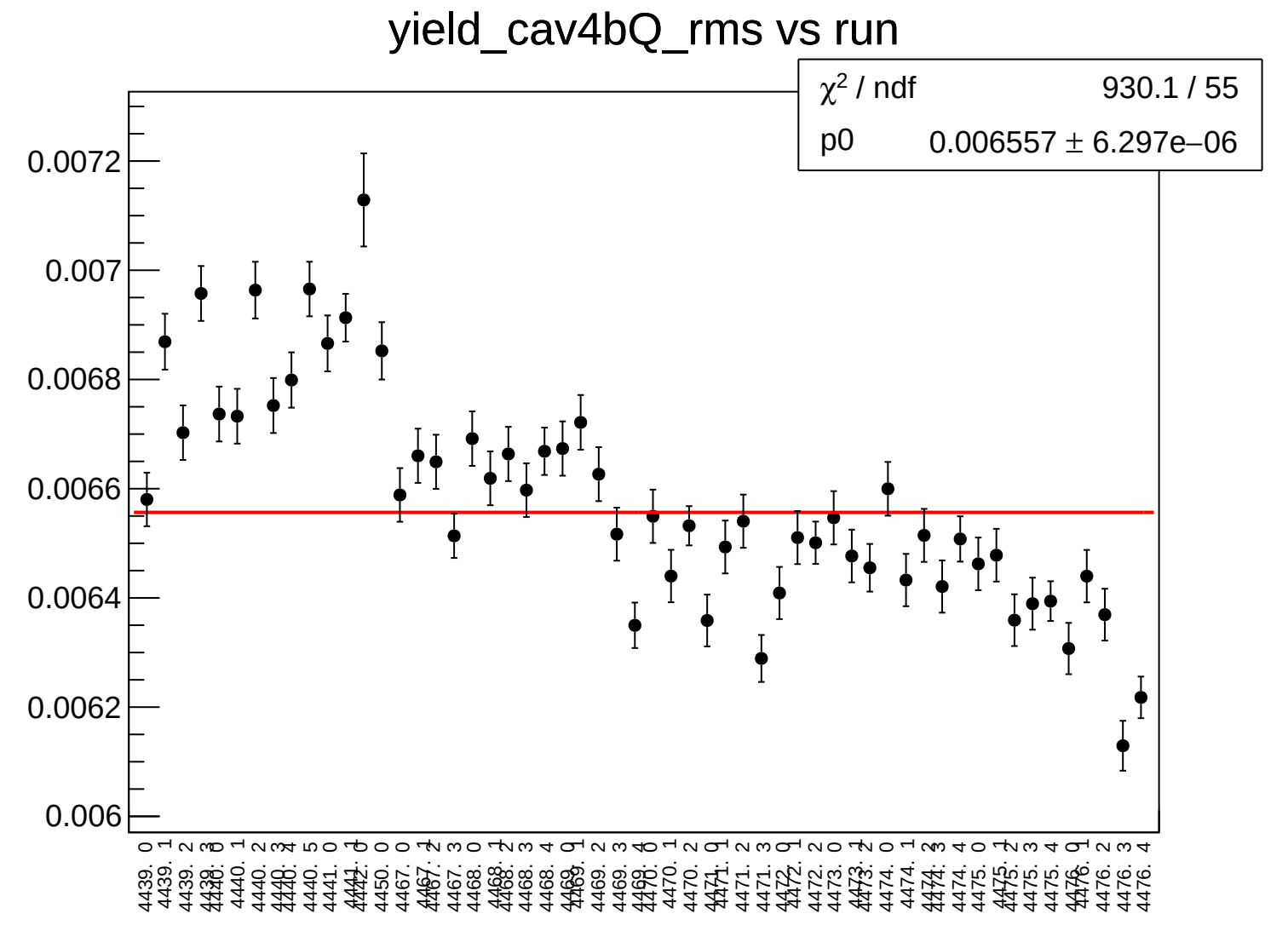

yield_bcm_dg_ds_mean vs run
χ² / ndf 9.041e+05 / 55
p0 69.55 ± 0.0003204
70
69.8
69.6
69.4
69.2
69
pull
Entries 56
Mean −843
Std Dev 868.7
200
100
0
−100
−200

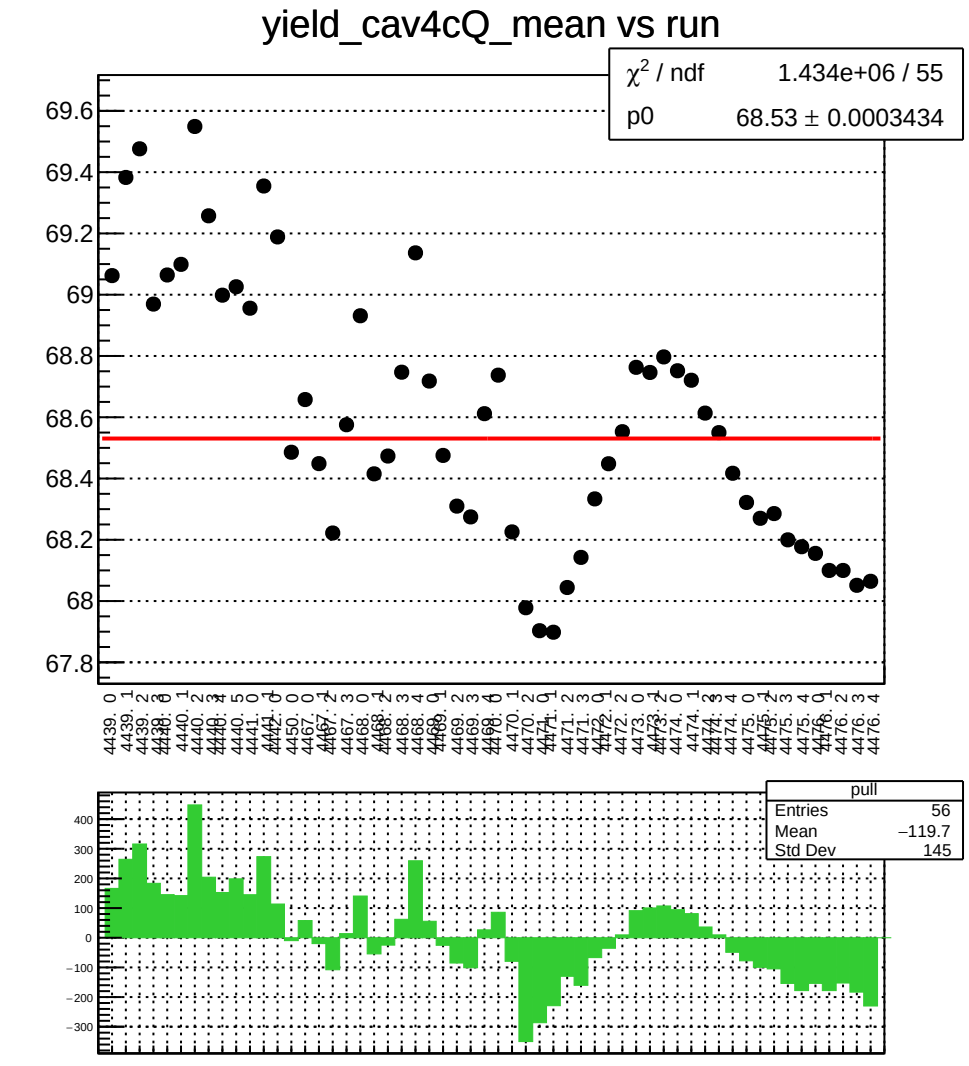

pull1D
Entries 56
Mean −1.508
Std Dev 4.59
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

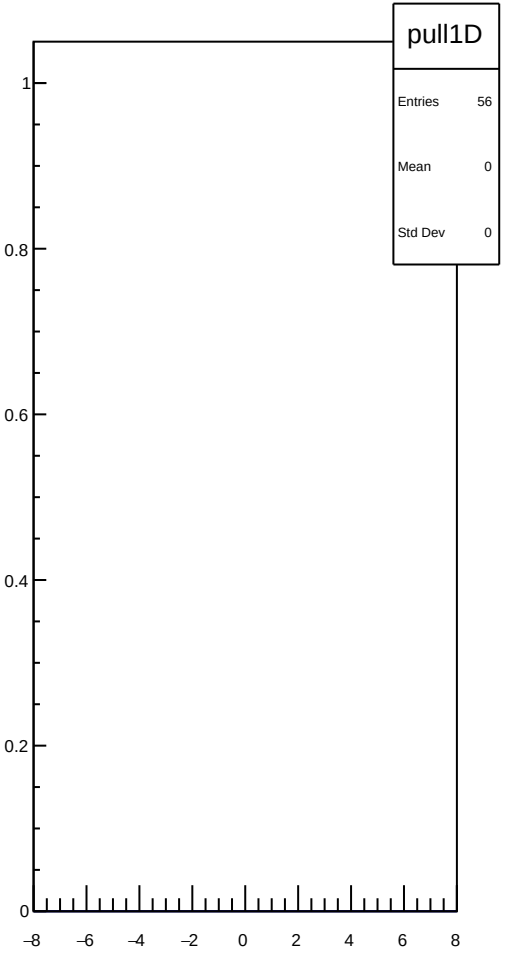

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.586e+04 / 55
p0 0.2342 ± 0.0002265
0.38
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
4439. 0
4439. 1
4439. 2
4439. 3
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

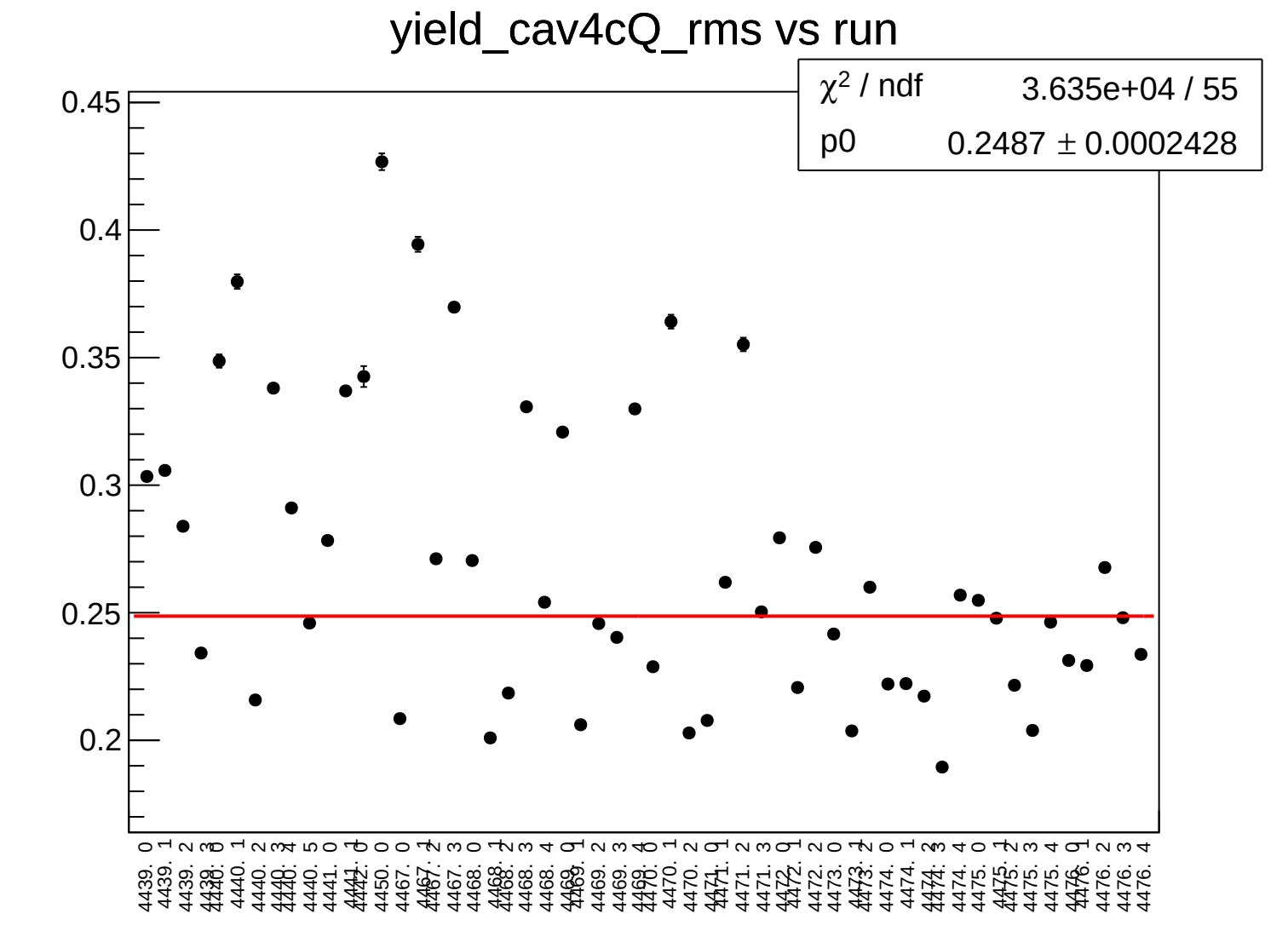

yield_cav4bQ_mean vs run
χ² / ndf 3.535e+05 / 55
p0 402.6 ± 8.905e−06
402.62
402.615
402.61
402.605
402.6
402.595
pull
Entries 56
Mean −283.6
Std Dev 311.4
150
100
50
0
−50
−100
−150
−200

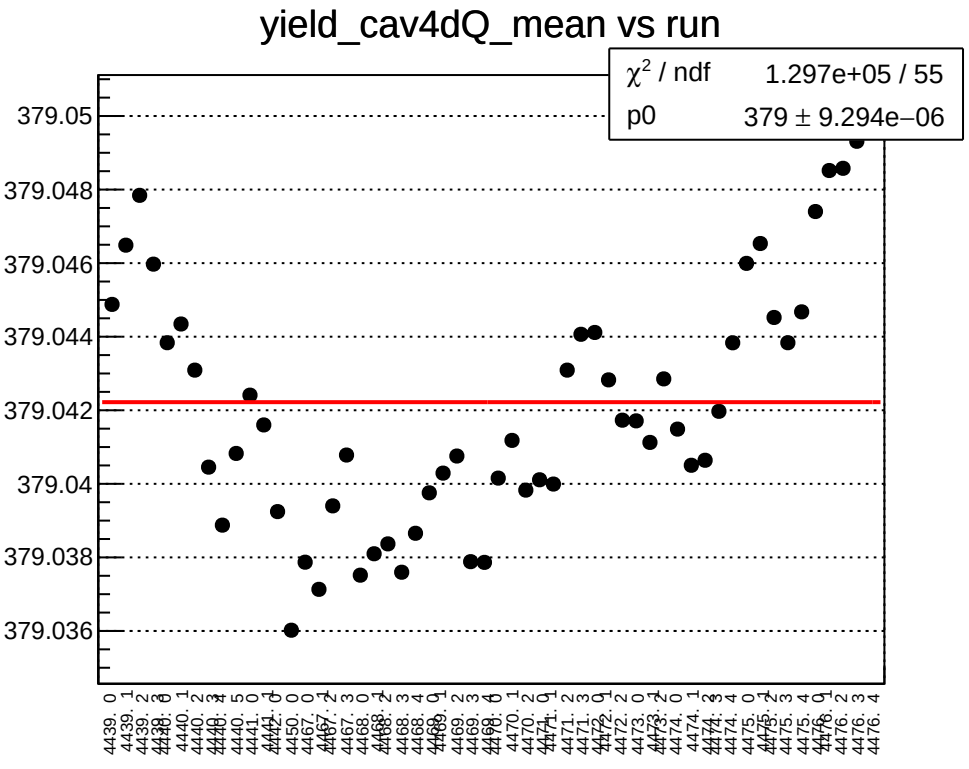

pull1D
Entries 56
Mean −2.288
Std Dev 3.595
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

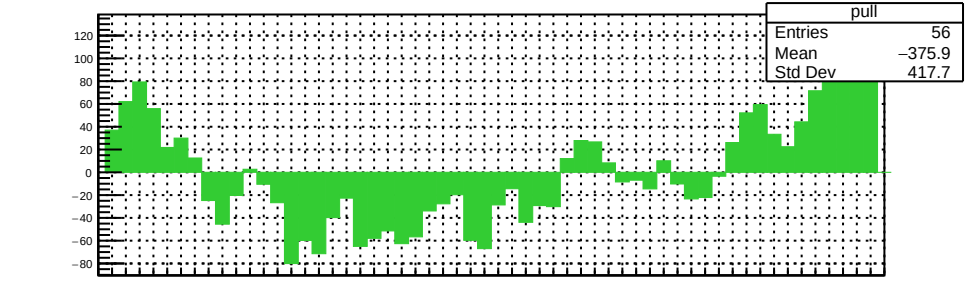

yield_cav4bQ_rms vs run
χ² / ndf 930.1 / 55
p0 0.006557 ± 6.297e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006

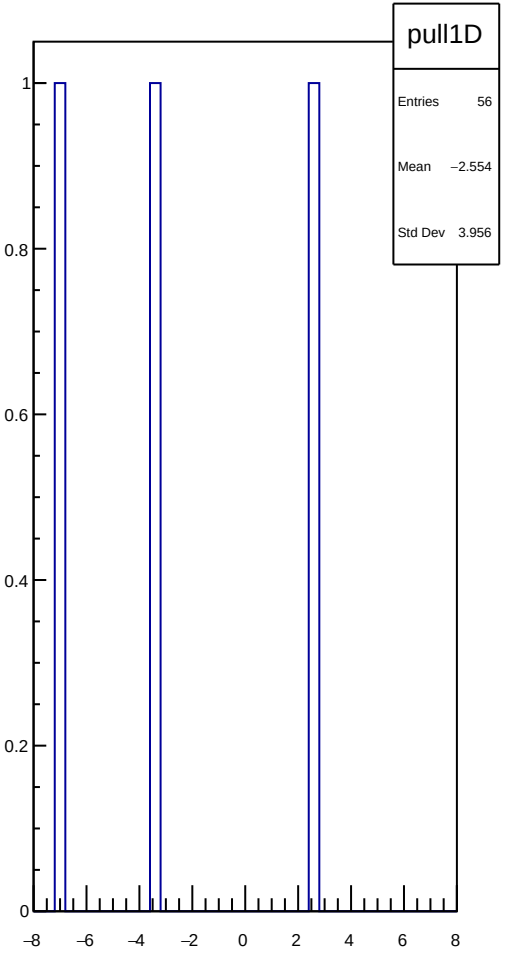

yield_cav4cQ_mean vs run
χ² / ndf 1.434e+06 / 55
p0 68.53 ± 0.0003434
pull
Entries 56
Mean −119.7
Std Dev 145

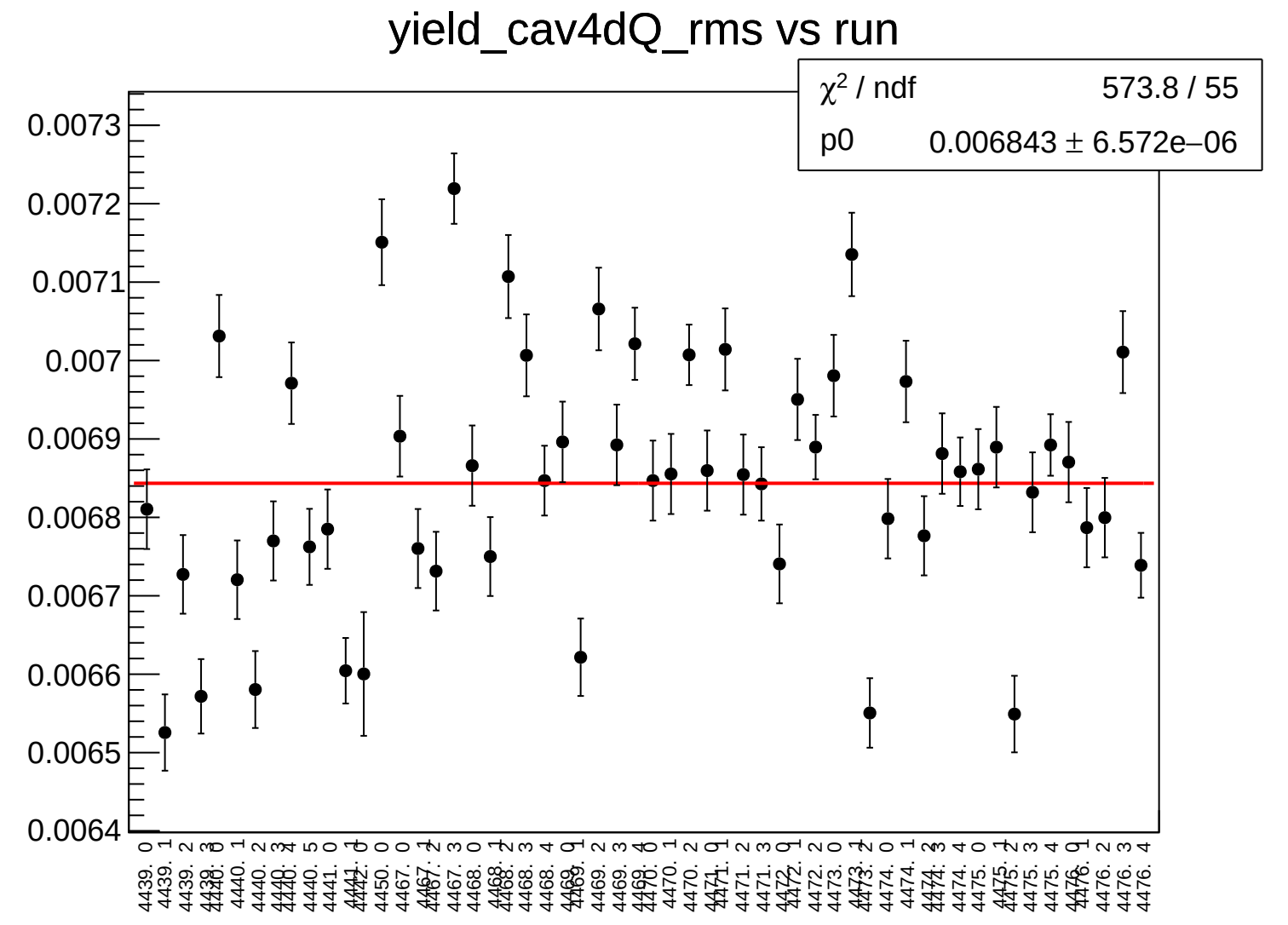

pull1D
Entries 56
Mean 0
Std Dev 0

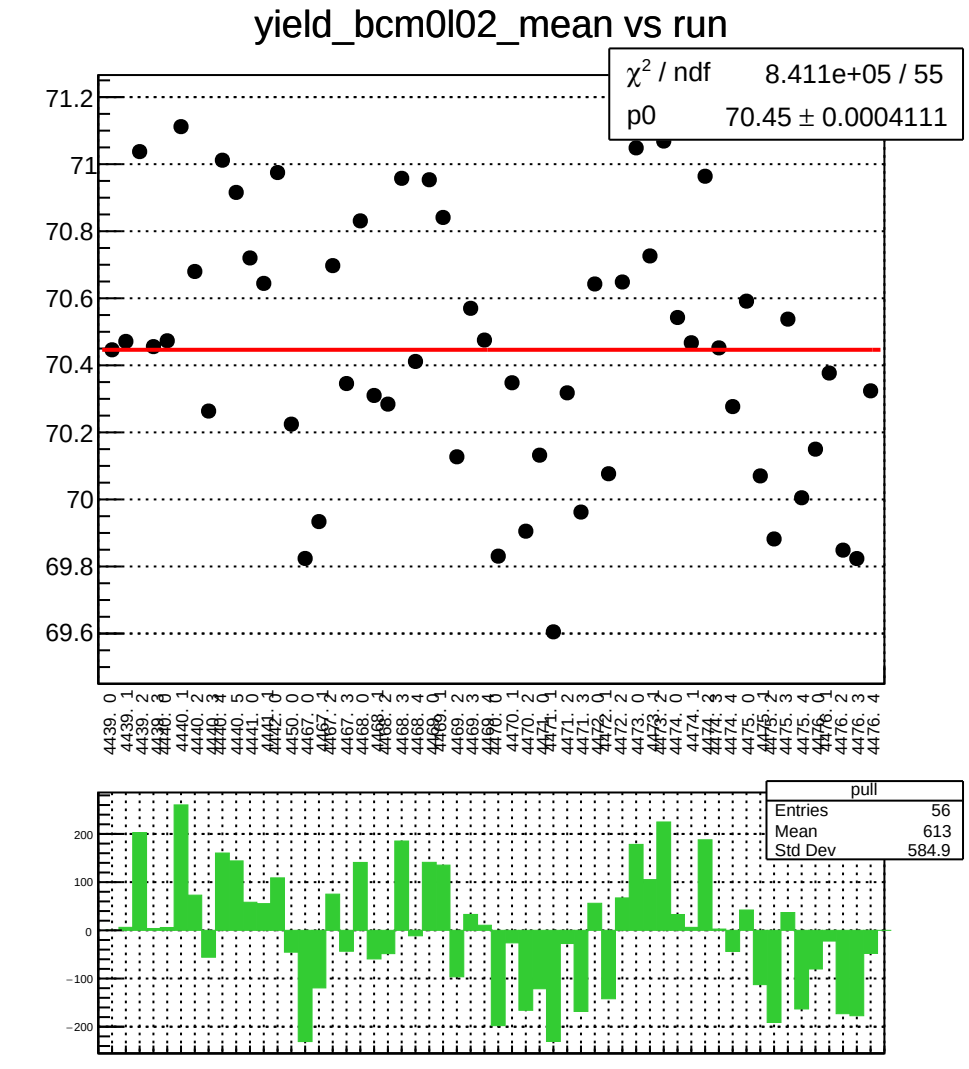

yield_cav4cQ_rms vs run
χ² / ndf 3.635e+04 / 55
p0 0.2487 ± 0.0002428
0.45
0.4
0.35
0.3
0.25
0.2

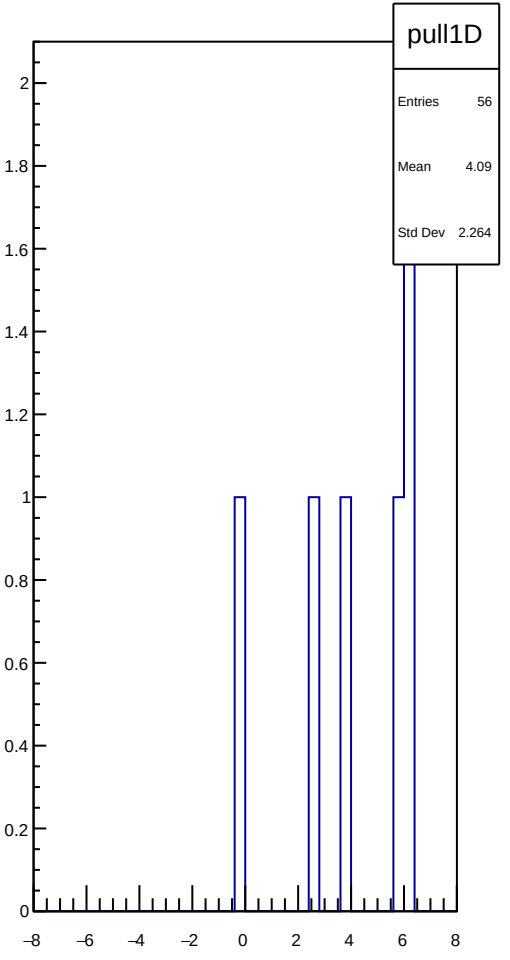

yield_cav4dQ_mean vs run
χ² / ndf 1.297e+05 / 55
p0 379 ± 9.294e−06
379.05
379.048
379.046
379.044
379.042
379.04
379.038
379.036

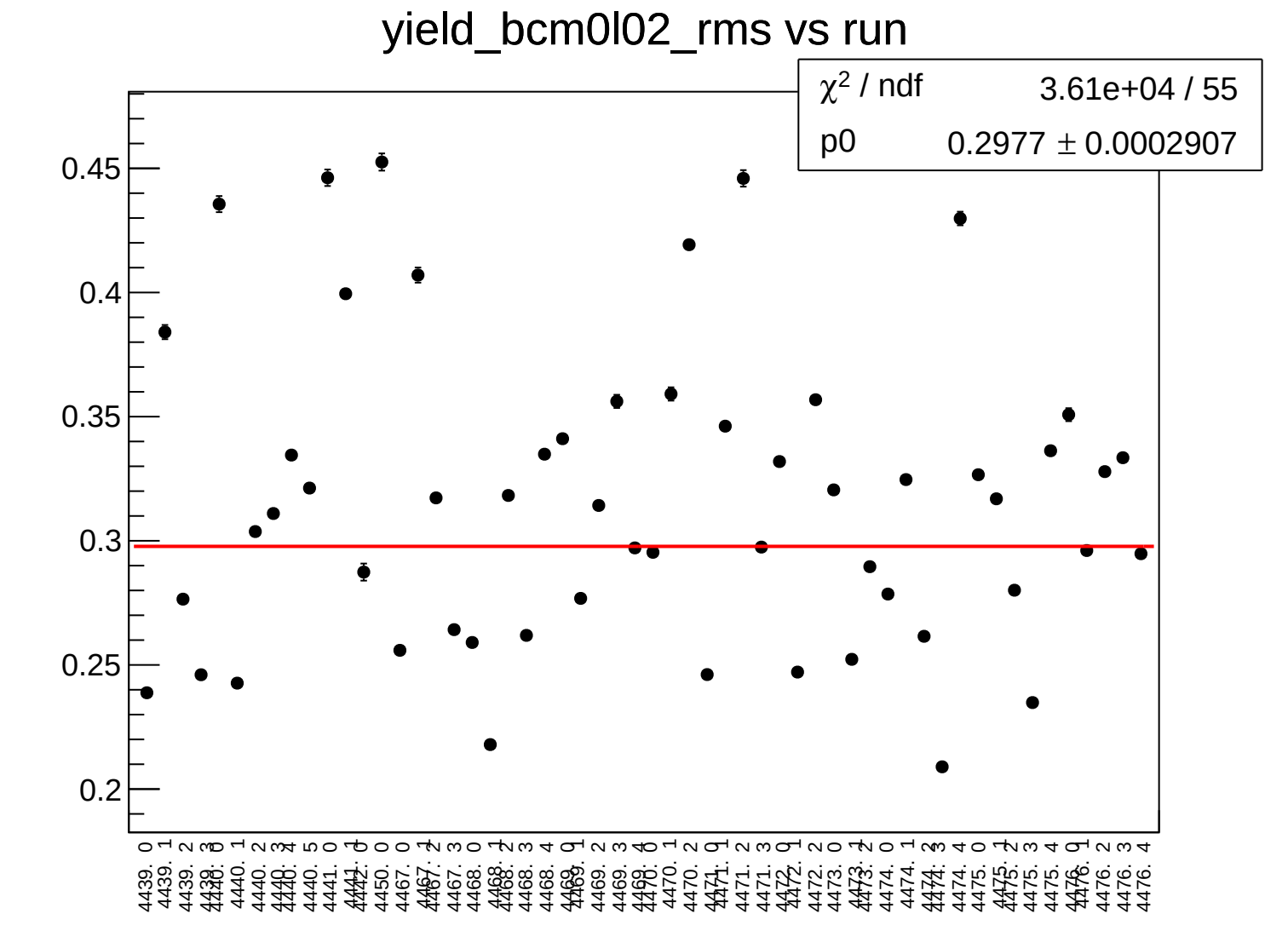

pull
Entries 56
Mean −375.9
Std Dev 417.7

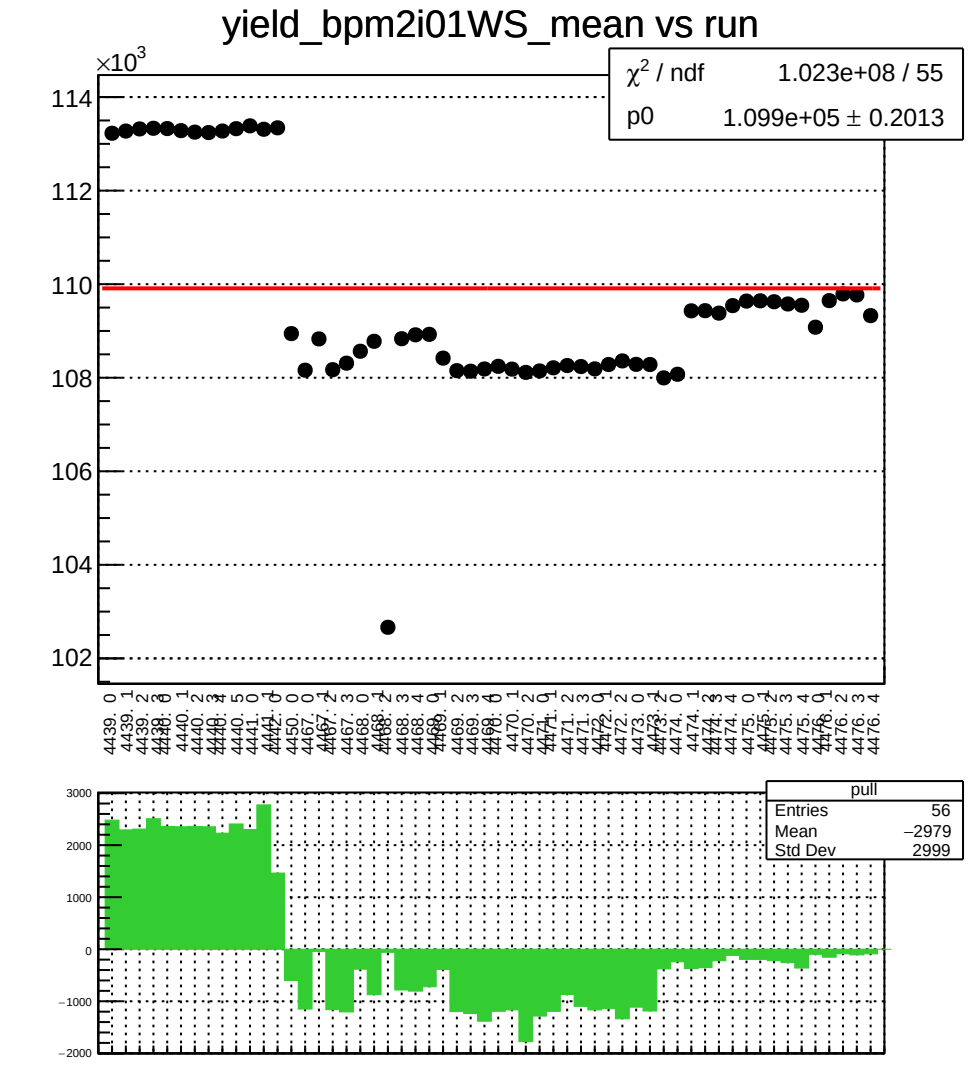

pull1D
Entries 56
Mean −2.554
Std Dev 3.956

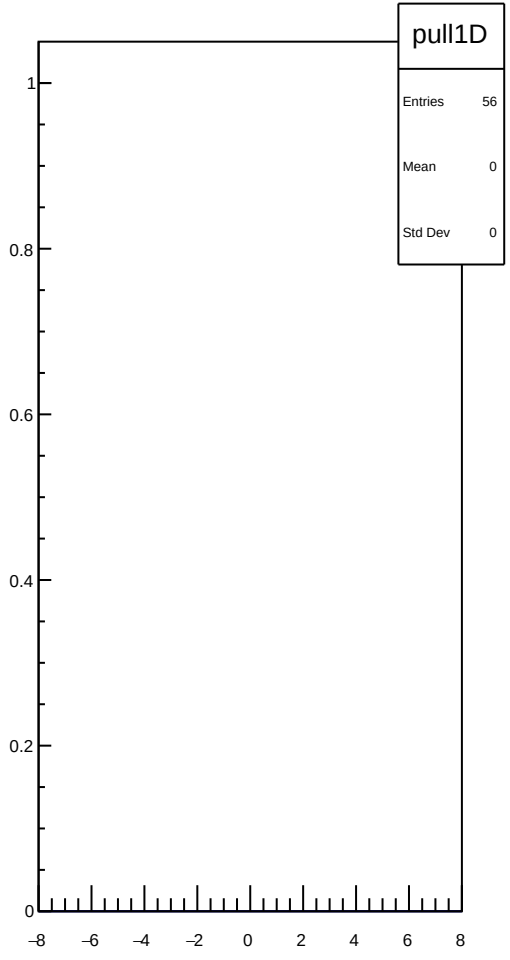

yield_cav4dQ_rms vs run
χ² / ndf 573.8 / 55
p0 0.006843 ± 6.572e−06
0.0073
0.0072
0.0071
0.007
0.0069
0.0068
0.0067
0.0066
0.0065
0.0064
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4441. 2
4441. 3
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

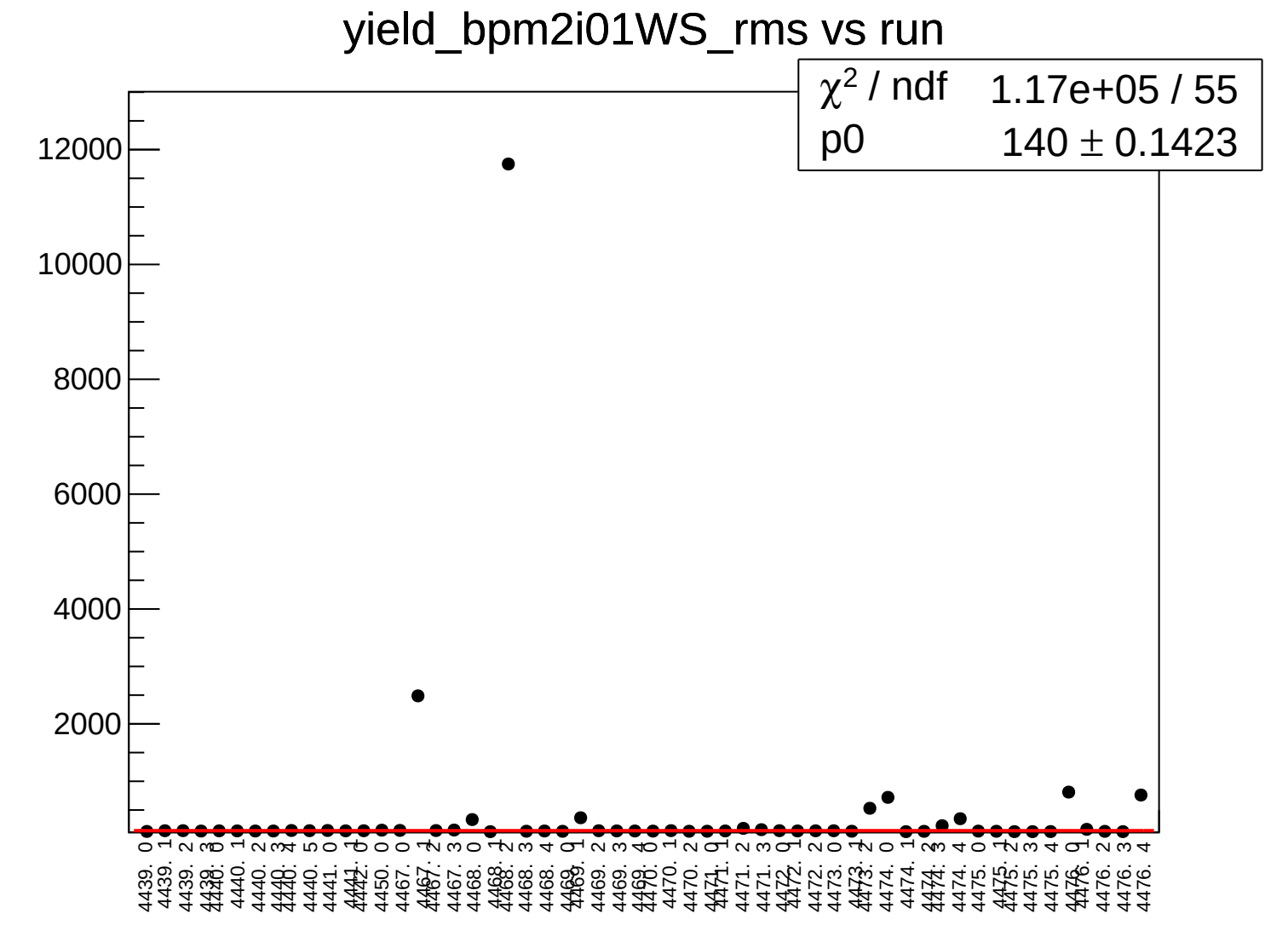

yield_bcm0l02_mean vs run
χ² / ndf 8.411e+05 / 55
p0 70.45 ± 0.0004111
71.2
71
70.8
70.6
70.4
70.2
70
69.8
69.6
pull
Entries 56
Mean 613
Std Dev 584.9
200
100
0
−100
−200

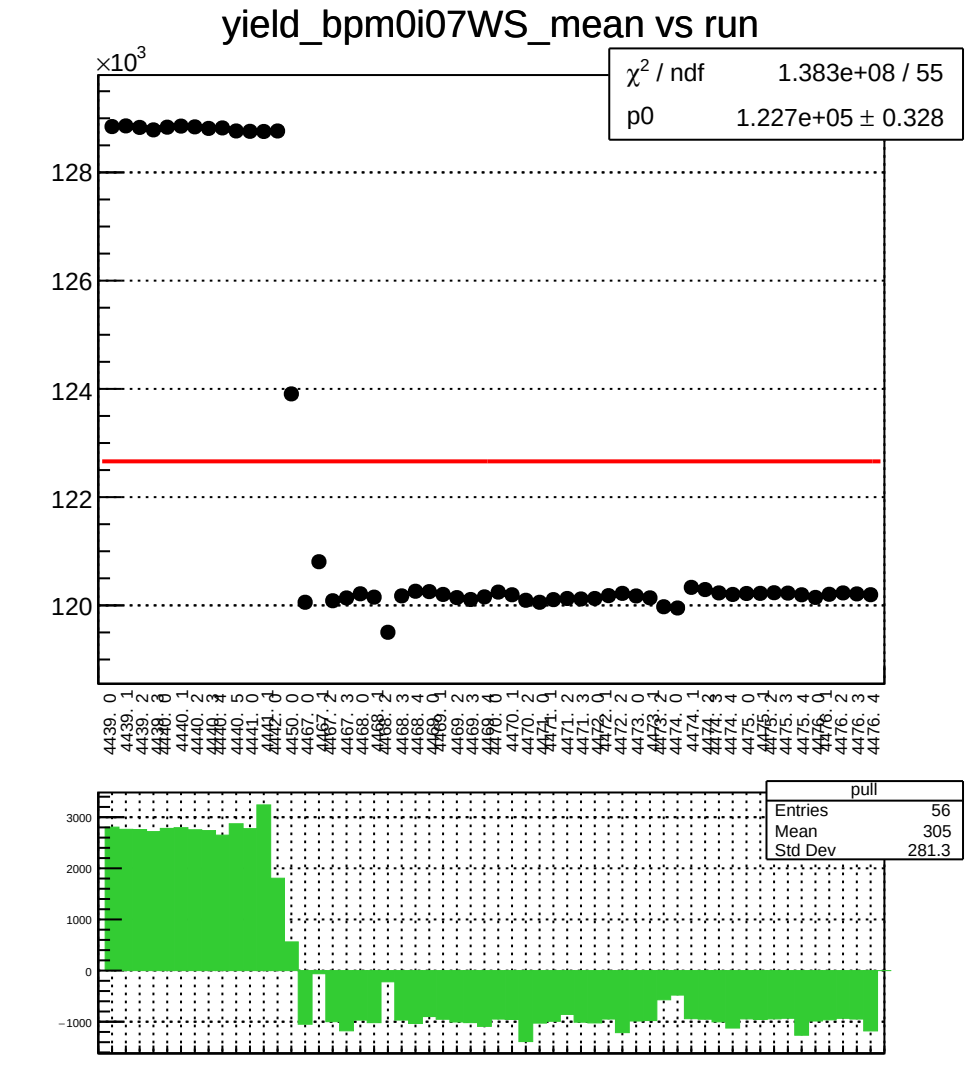

pull1D
Entries 56
Mean 4.09
Std Dev 2.264
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

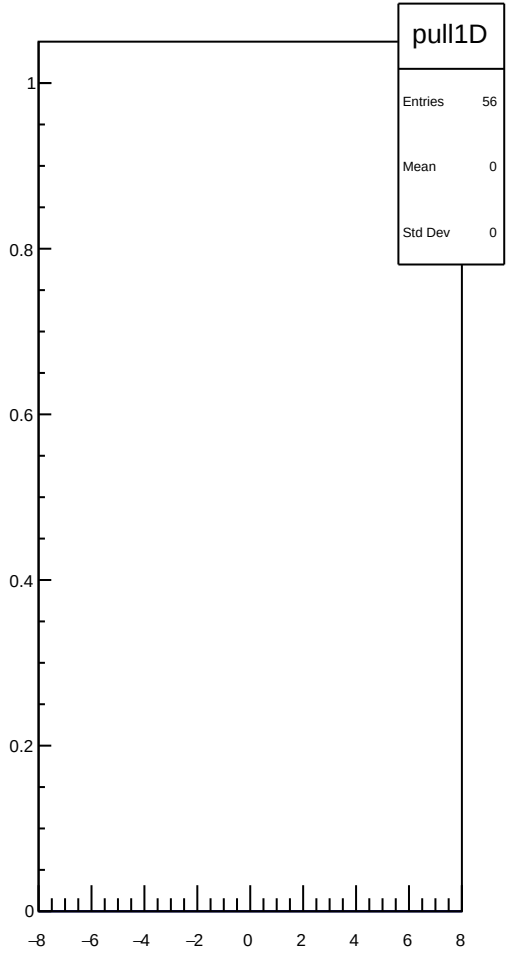

yield_bcm0l02_rms vs run
χ² / ndf 3.61e+04 / 55
p0 0.2977 ± 0.0002907
0.45
0.4
0.35
0.3
0.25
0.2

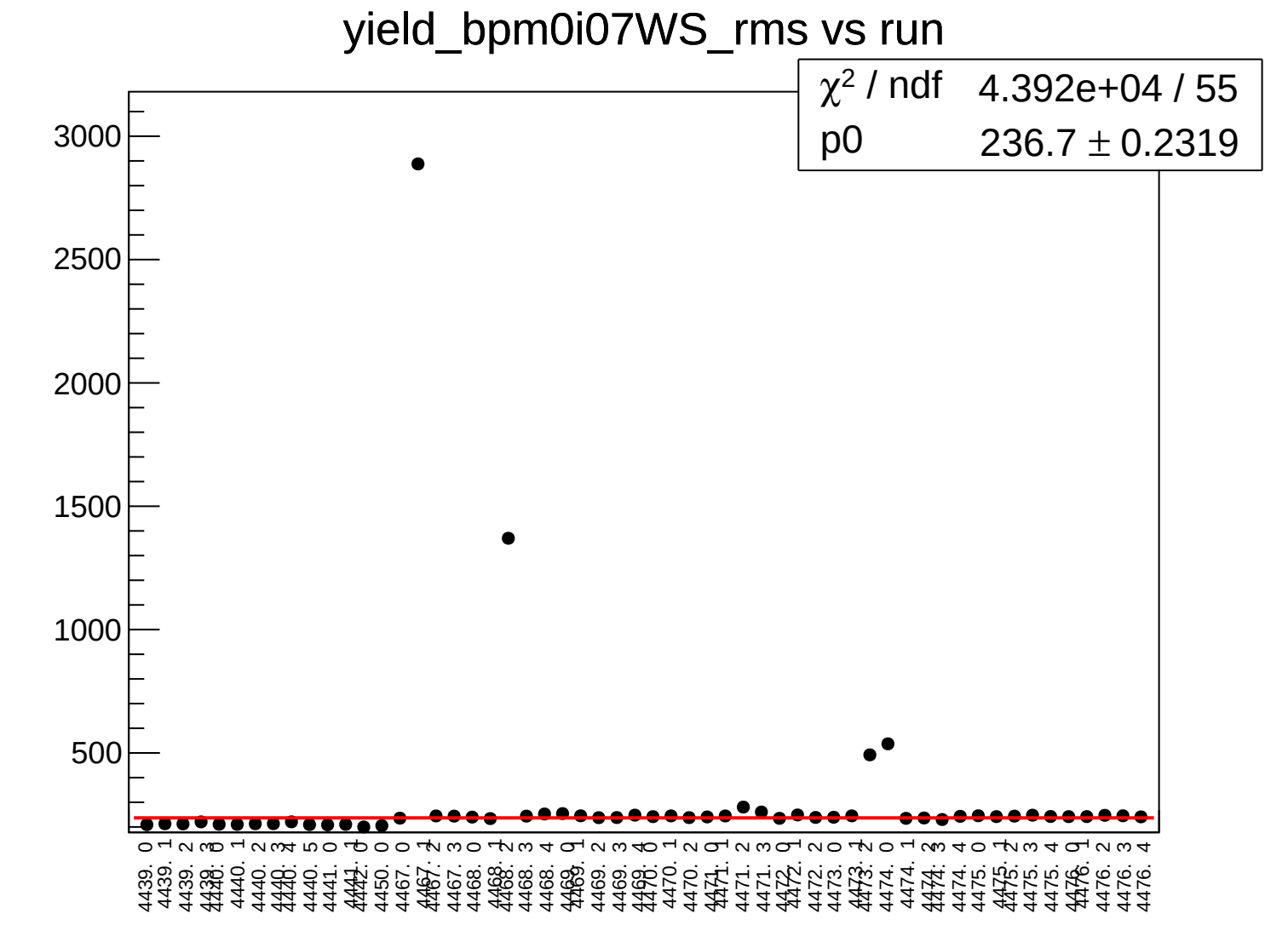

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.023e+08 / 55
p0 1.099e+05 ± 0.2013
114
112
110
108
106
104
102
pull
Entries 56
Mean −2979
Std Dev 2999
3000
2000
1000
0
−1000
−2000

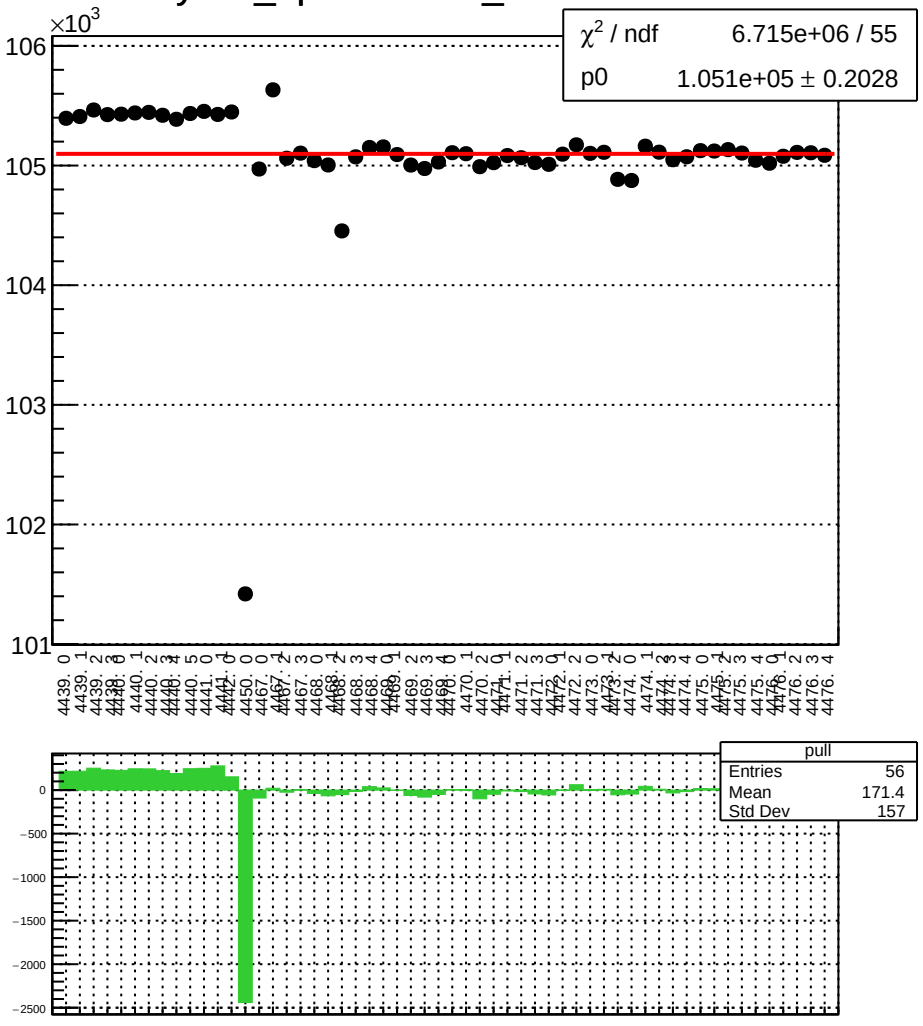

pull1D
Entries 56
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

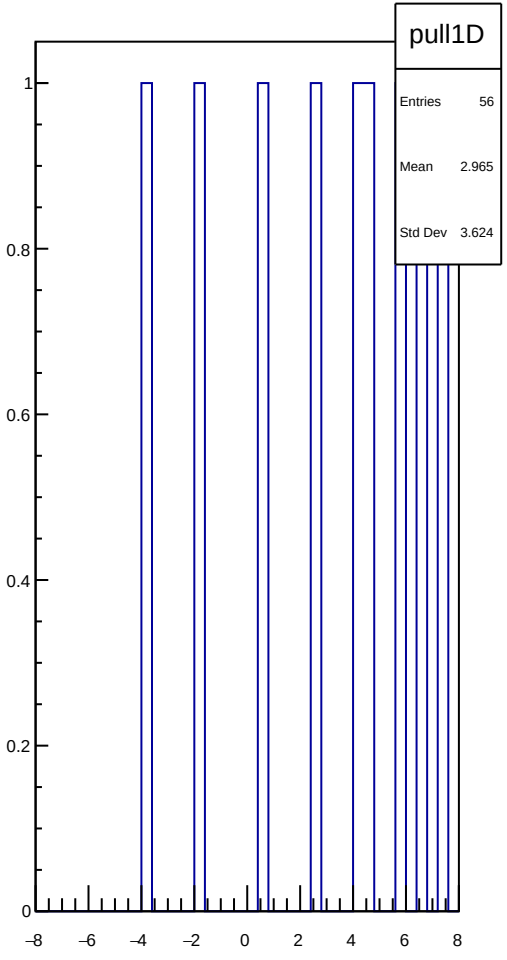

yield_bpm2i01WS_rms vs run
χ² / ndf 1.17e+05 / 55
p0 140 ± 0.1423
12000
10000
8000
6000
4000
2000
4439. 0
4439. 1
4439. 2
4439. 3
4439. 4
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4441. 2
4441. 3
4441. 4
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

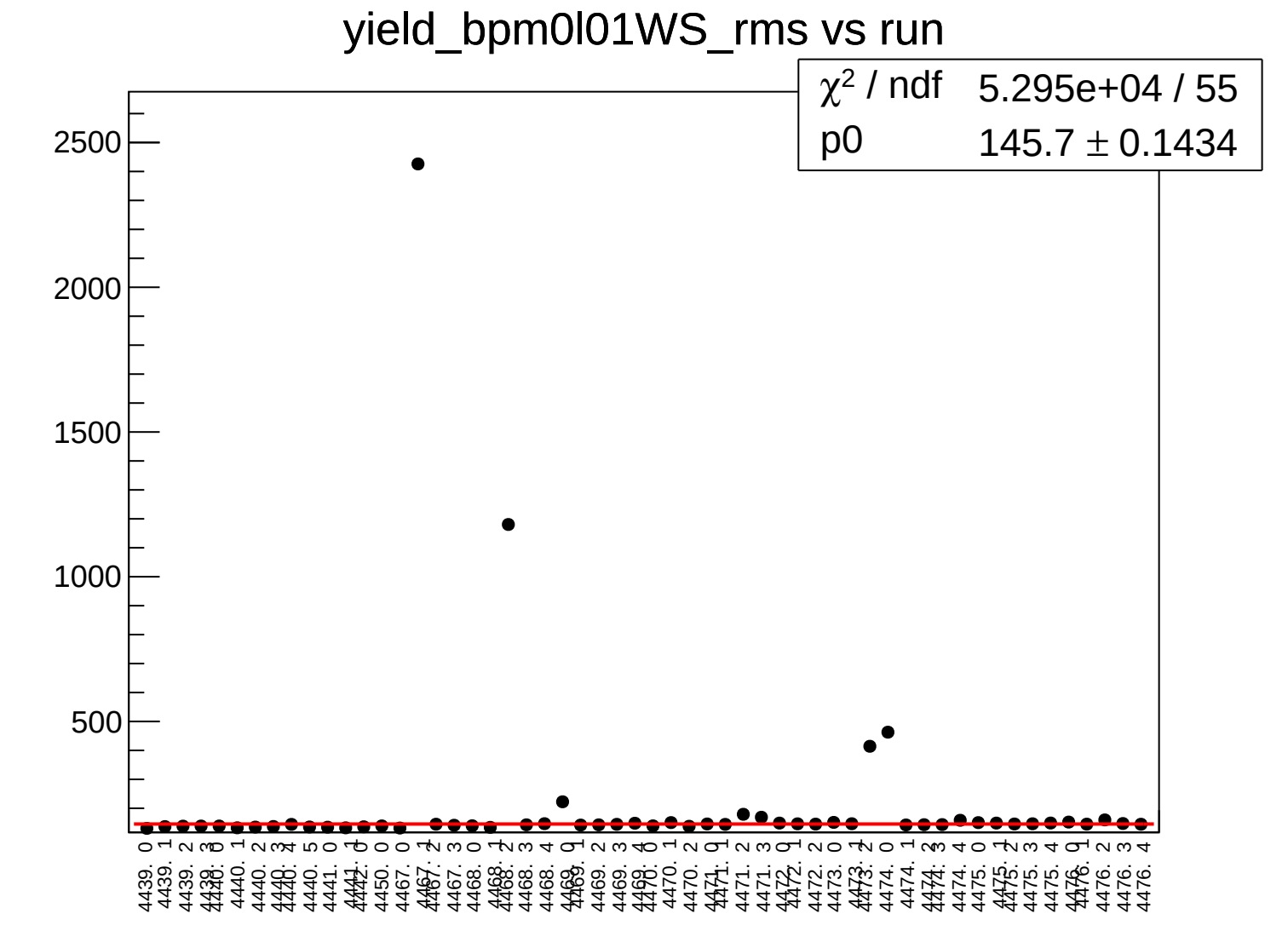

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.383e+08 / 55
p0 1.227e+05 ± 0.328
128
126
124
122
120
pull
Entries 56
Mean 305
Std Dev 281.3
3000
2000
1000
0
−1000

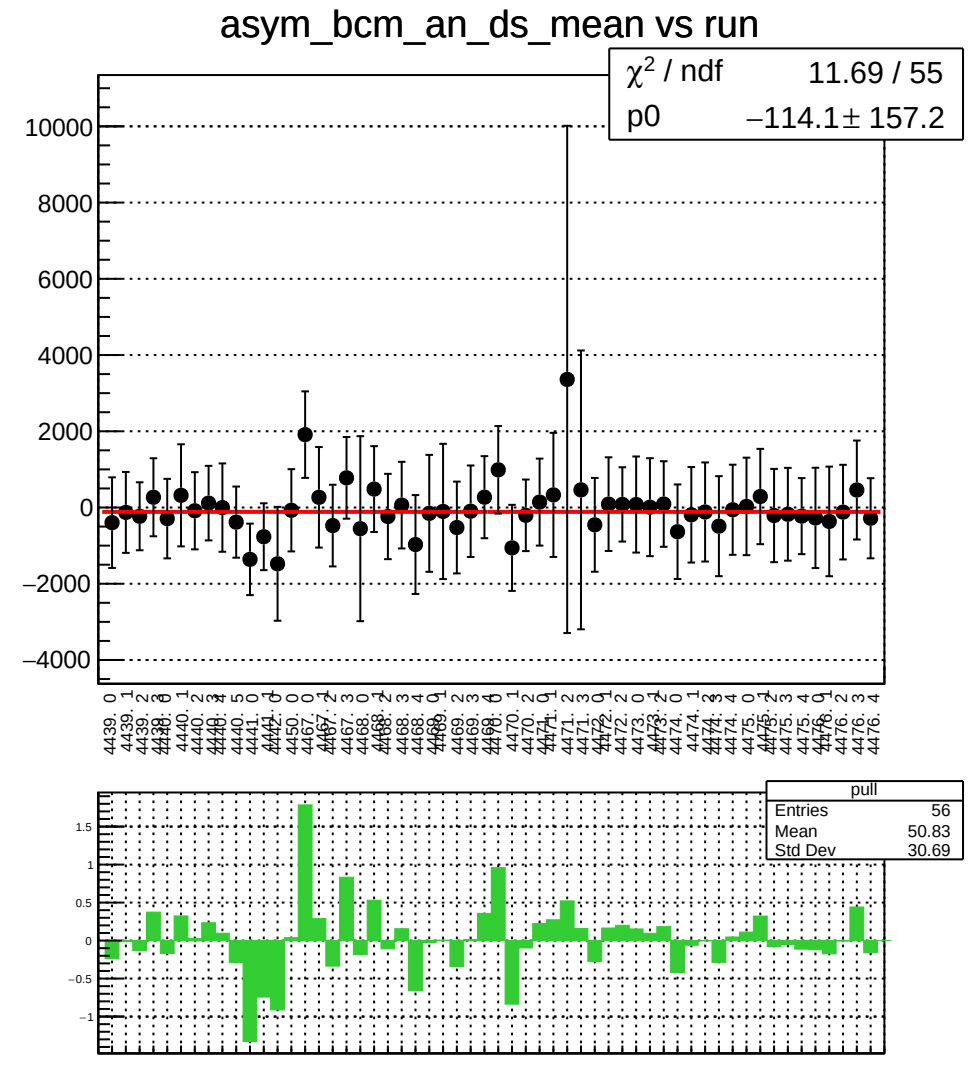

pull1D
Entries 56
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

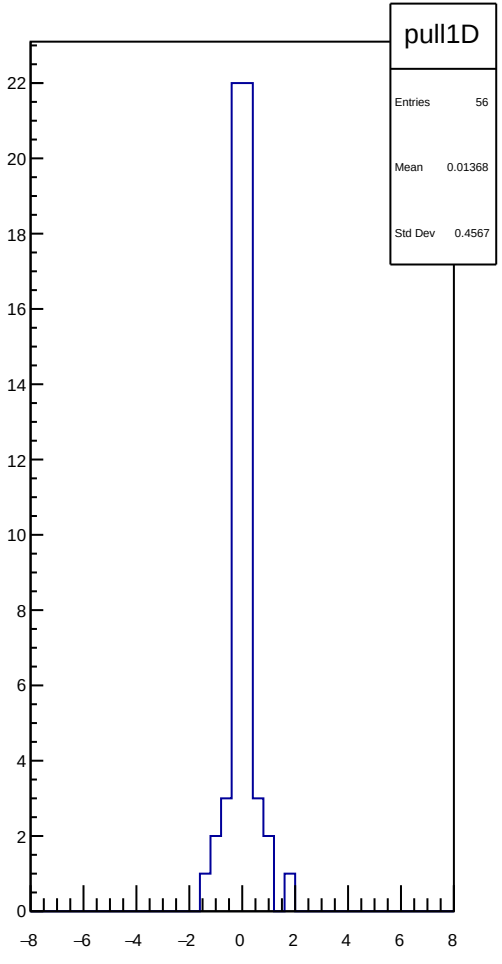

yield_bpm0i07WS_rms vs run
χ² / ndf 4.392e+04 / 55
p0 236.7 ± 0.2319
3000
2500
2000
1500
1000
500
4439. 0
4439. 1
4439. 2
4440. 1
4440. 2
4440. 5
4441. 0
4450. 0
4467. 0
4467. 2
4467. 3
4468. 0
4468. 2
4468. 3
4468. 4
4469. 2
4469. 3
4470. 1
4470. 2
4471. 2
4471. 3
4472. 1
4472. 2
4473. 0
4474. 0
4474. 1
4474. 4
4475. 0
4475. 2
4475. 3
4475. 4
4476. 2
4476. 3
4476. 4

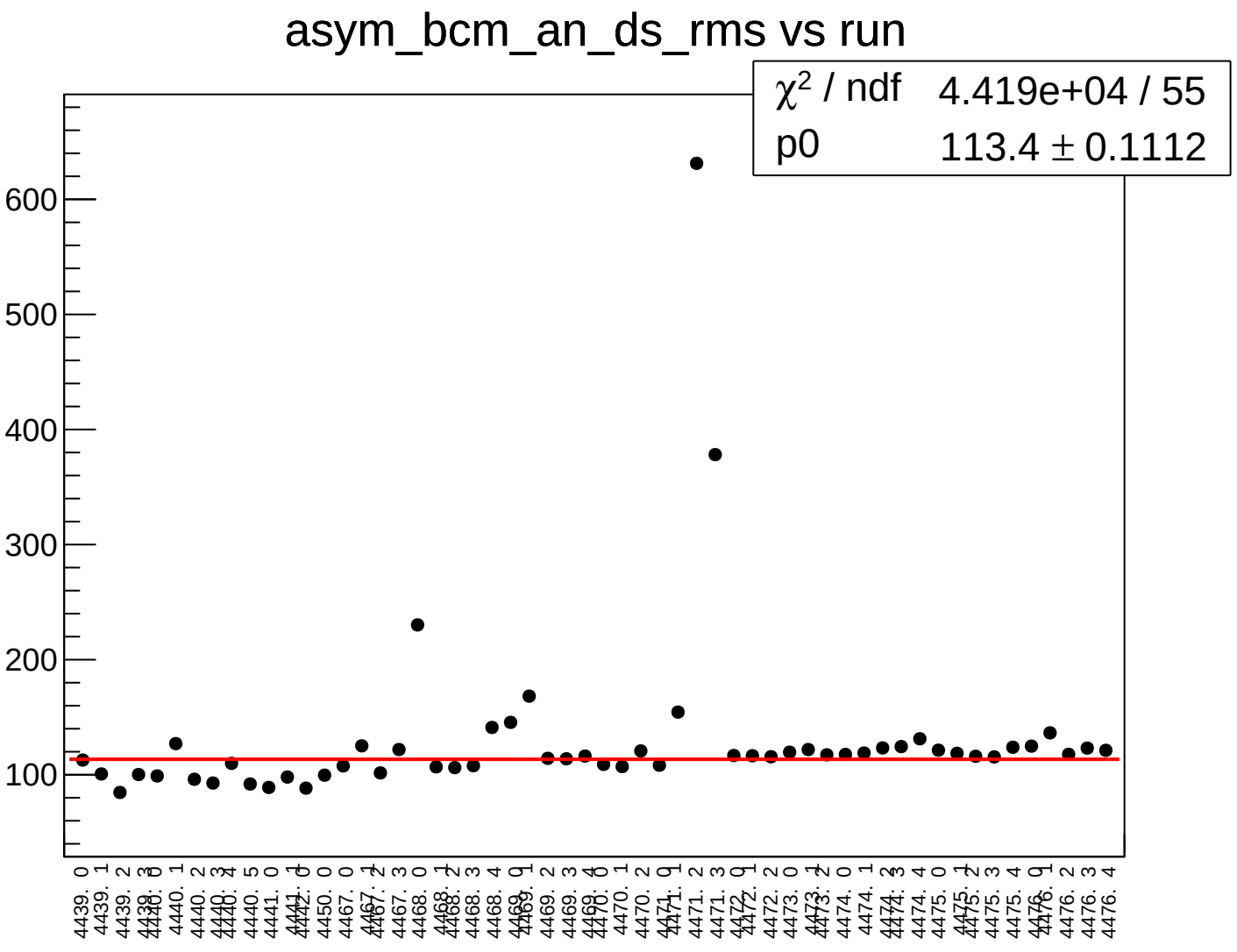

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 6.715e+06 / 55
p0 1.051e+05 ± 0.2028
106
105
104
103
102
101
pull
Entries 56
Mean 171.4
Std Dev 157
0
−500
−1000
−1500
−2000
−2500

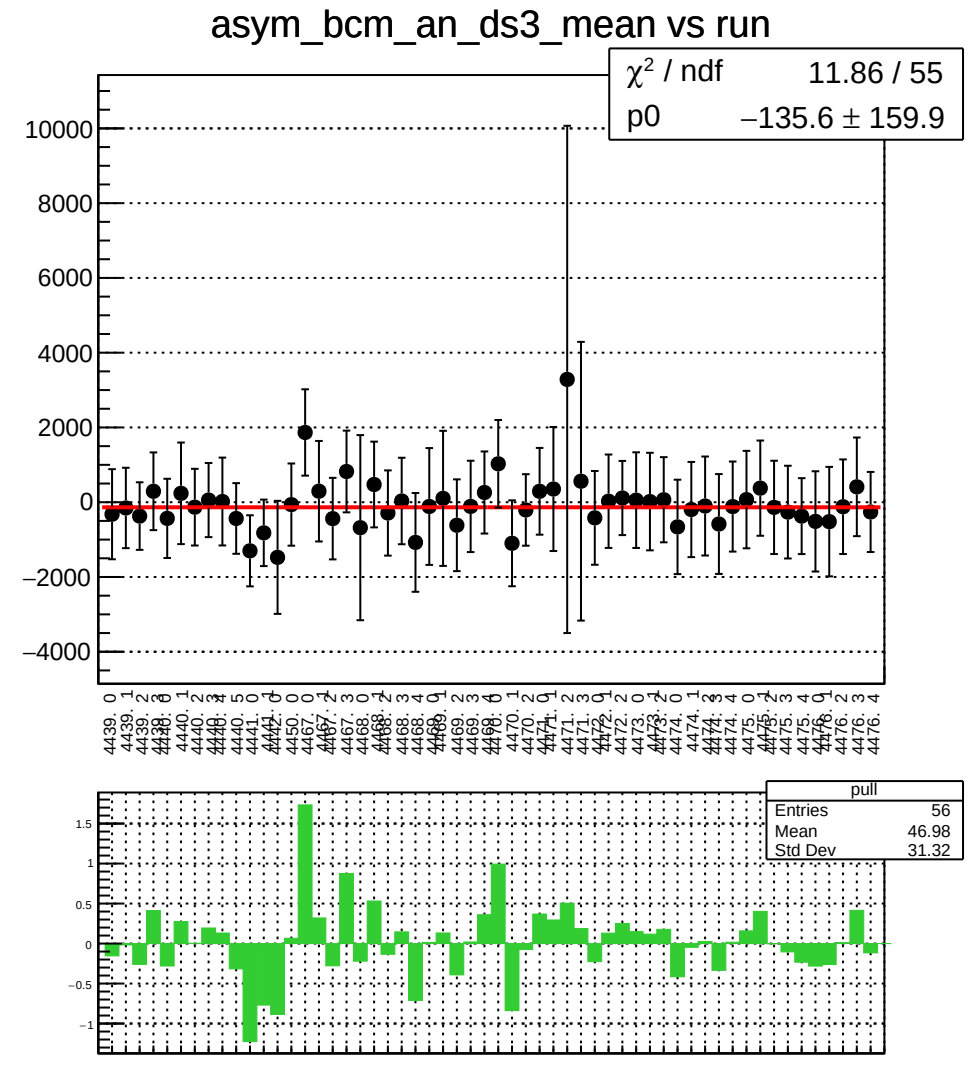

pull1D
Entries 56
Mean 2.965
Std Dev 3.624
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

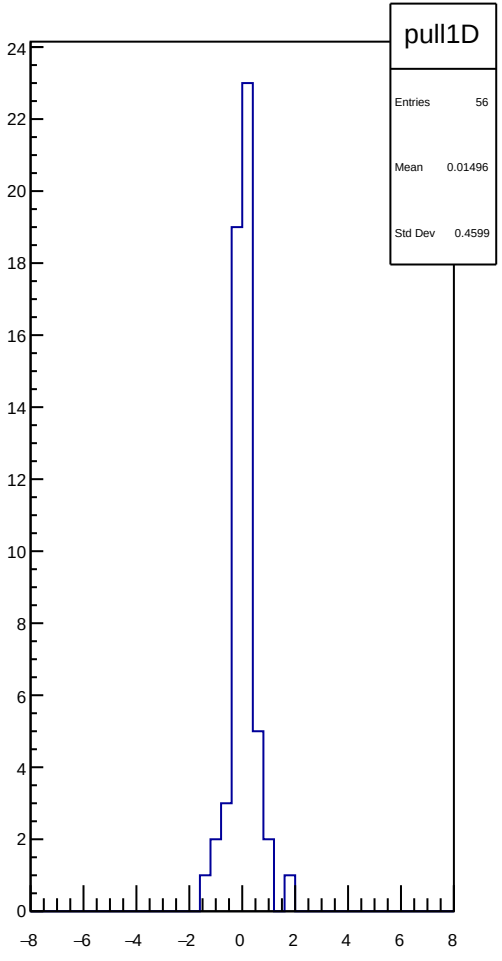

yield_bpm0l01WS_rms vs run
χ² / ndf 5.295e+04 / 55
p0 145.7 ± 0.1434
2500
2000
1500
1000
500
4439. 0
4439. 1
4439. 2
4439. 3
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

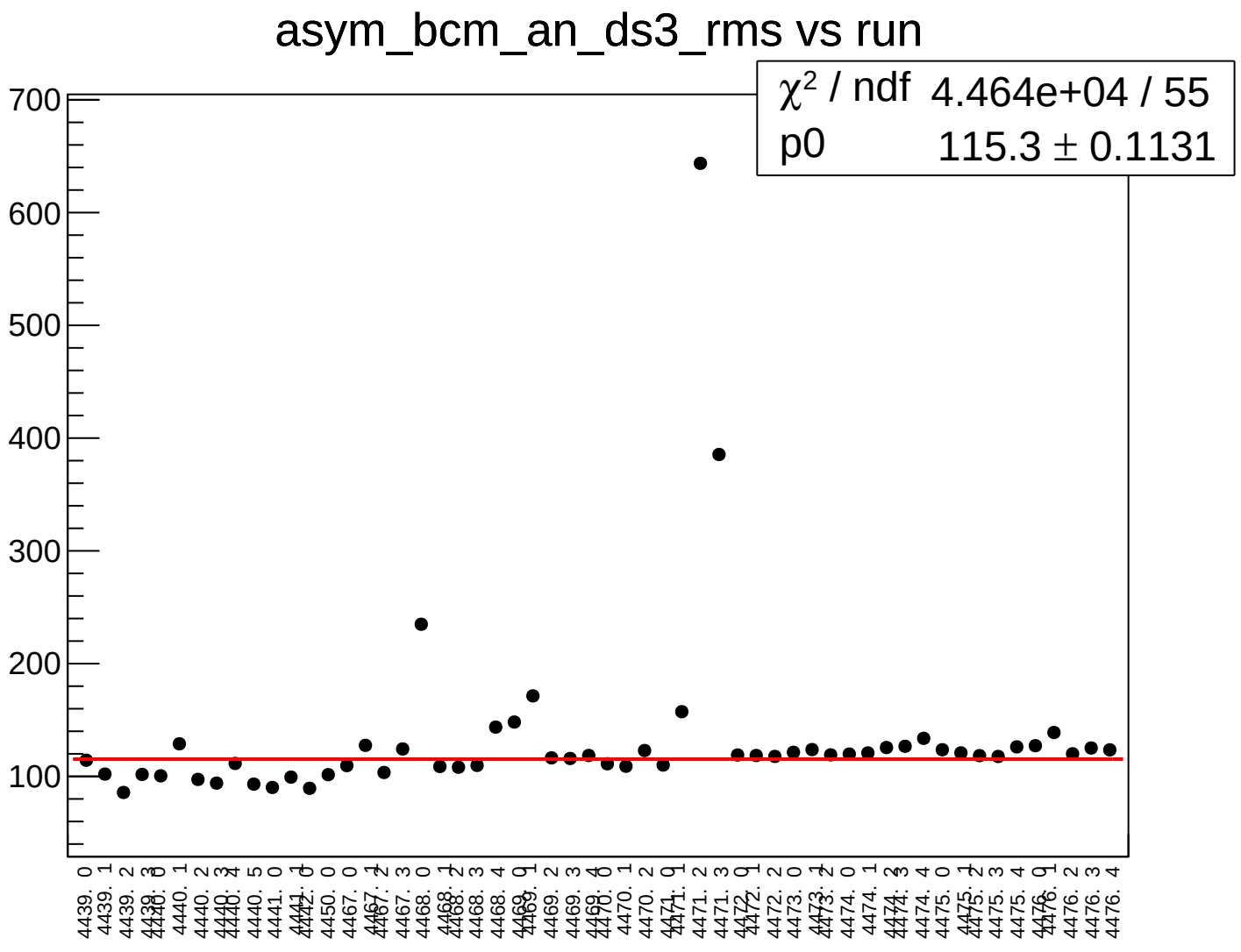

asym_bcm_an_ds_mean vs run
χ² / ndf 11.69 / 55
p0 −114.1± 157.2
pull
Entries 56
Mean 50.83
Std Dev 30.69

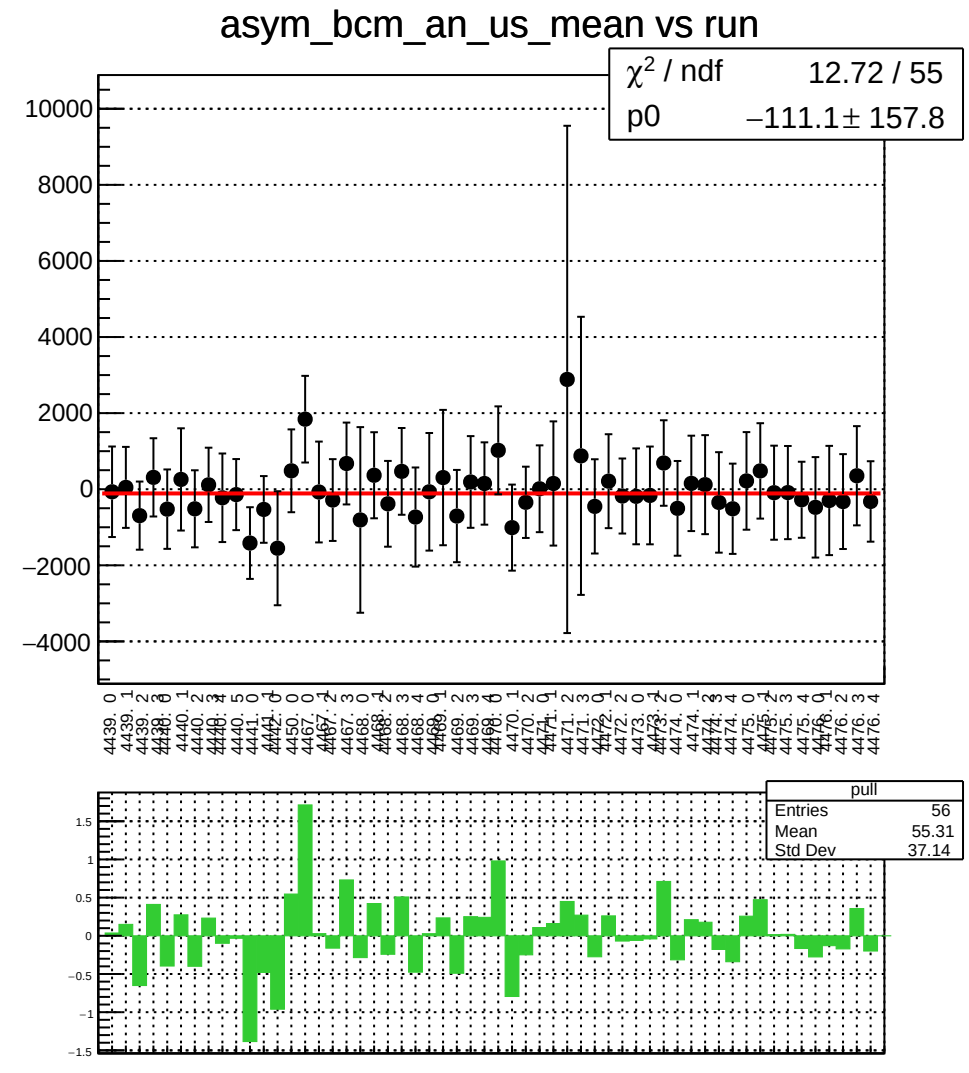

pull1D
Entries 56
Mean 0.01368
Std Dev 0.4567

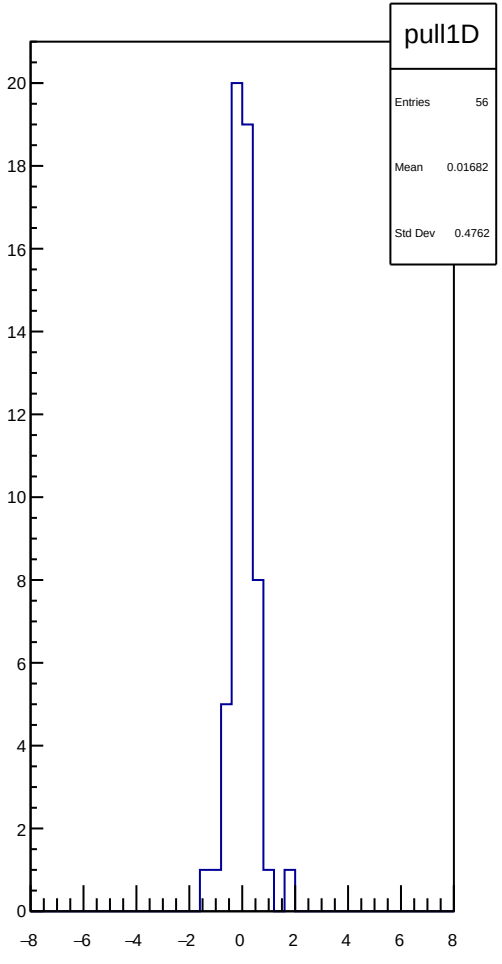

asym_bcm_an_ds_rms vs run
χ² / ndf 4.419e+04 / 55
p0 113.4 ± 0.1112
600
500
400
300
200
100

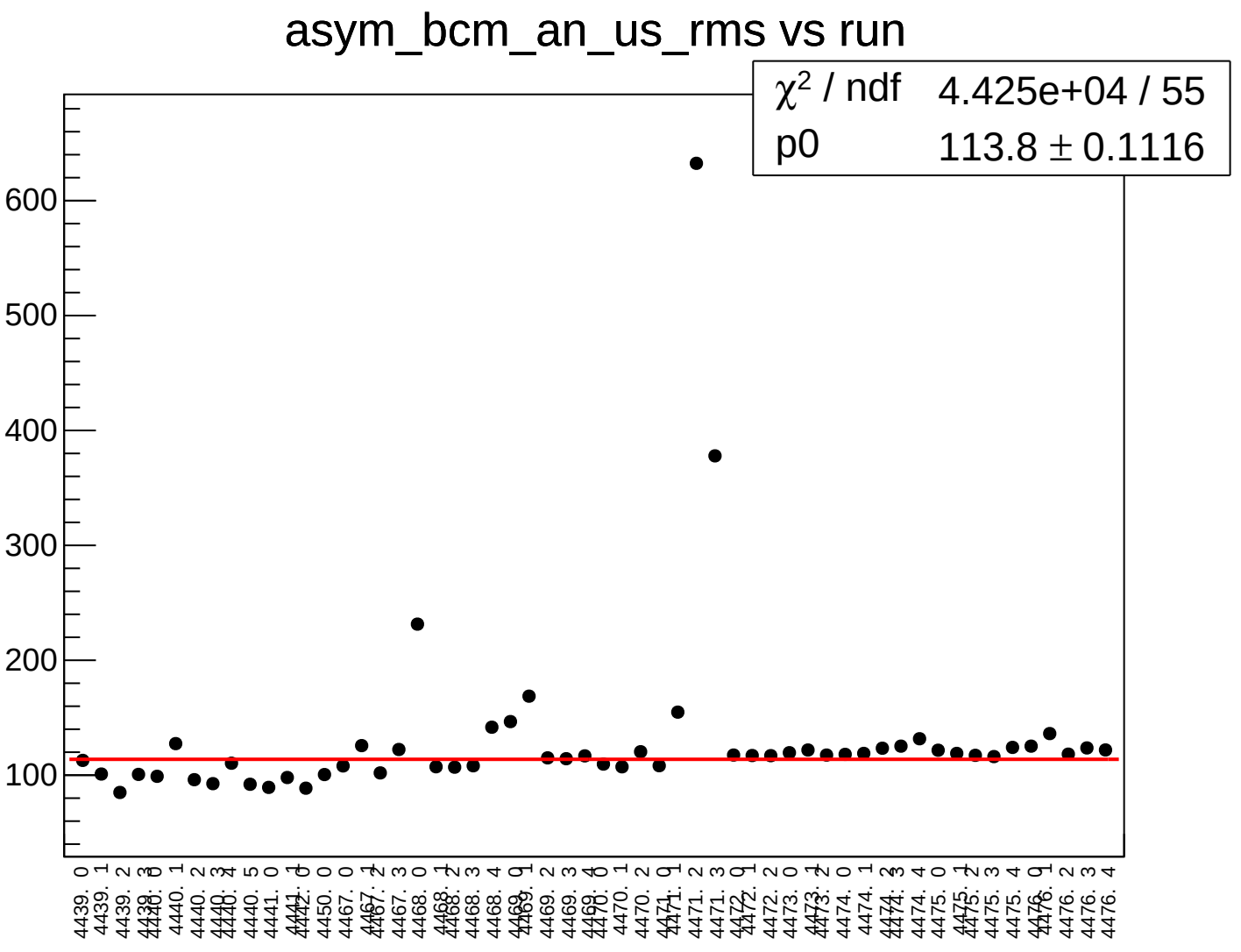

asym_bcm_an_ds3_mean vs run
χ² / ndf 11.86 / 55
p0 −135.6 ± 159.9
pull
Entries 56
Mean 46.98
Std Dev 31.32

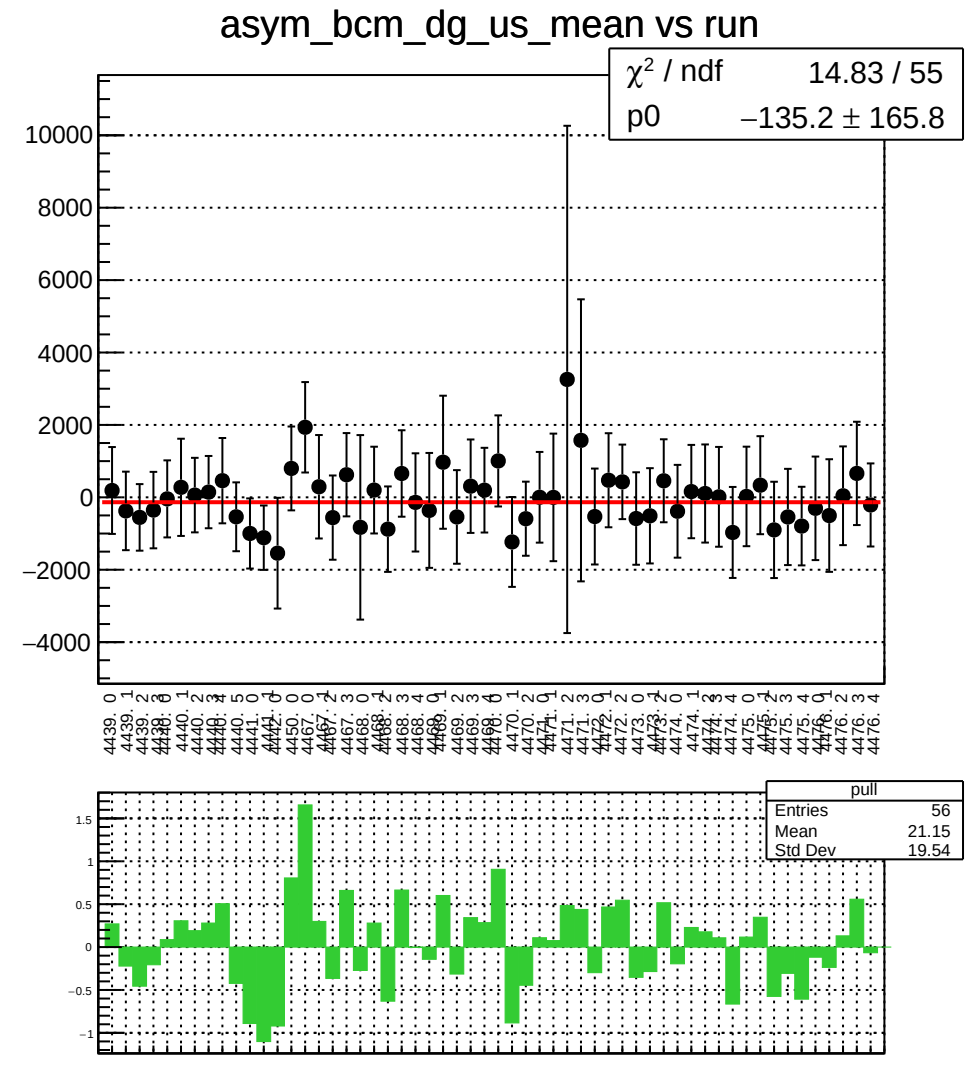

pull1D
Entries 56
Mean 0.01496
Std Dev 0.4599

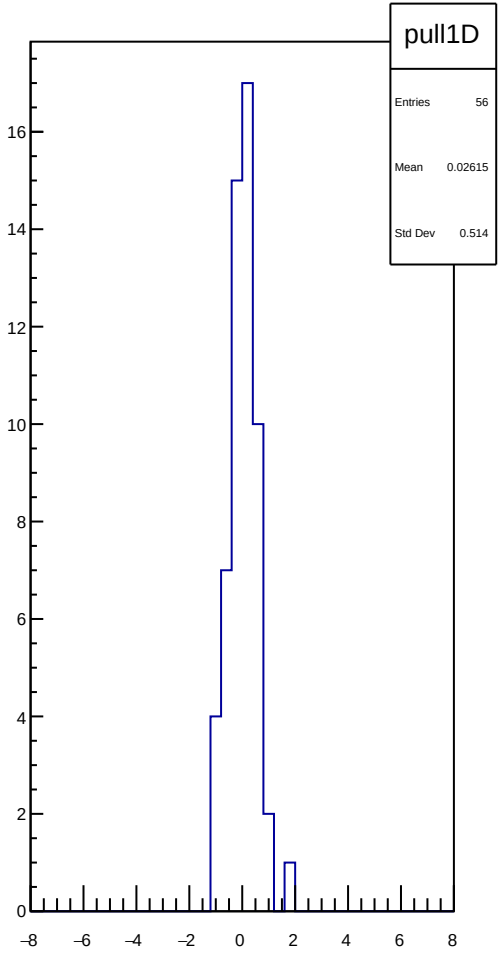

asym_bcm_an_ds3_rms vs run
χ² / ndf 4.464e+04 / 55
p0 115.3 ± 0.1131
700
600
500
400
300
200
100

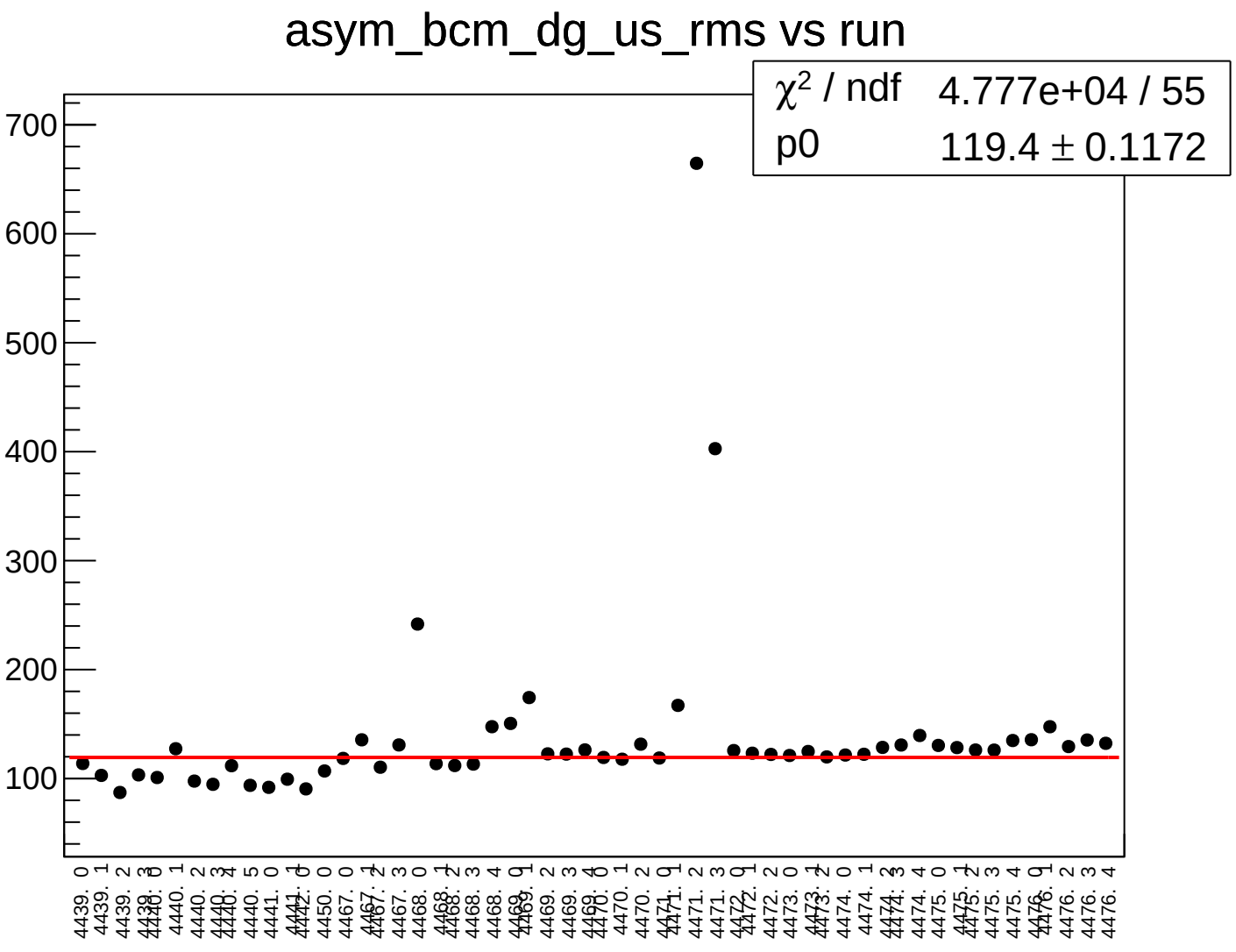

asym_bcm_an_us_mean vs run
χ² / ndf 12.72 / 55
p0 −111.1± 157.8
pull
Entries 56
Mean 55.31
Std Dev 37.14

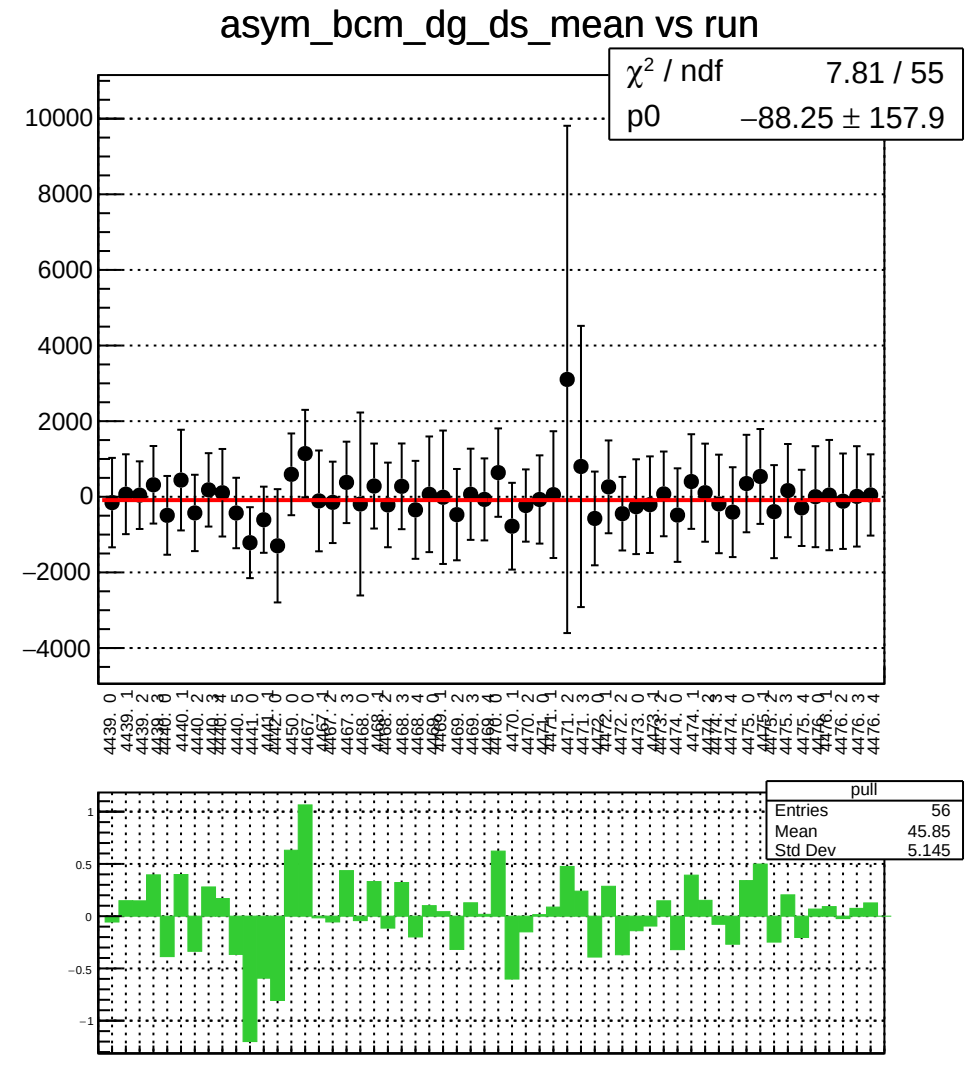

pull1D
Entries 56
Mean 0.01682
Std Dev 0.4762

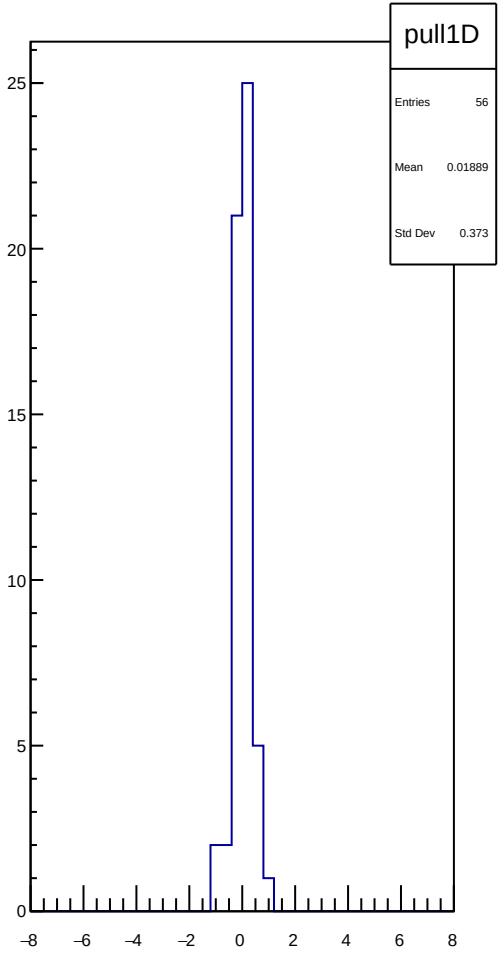

asym_bcm_an_us_rms vs run
χ² / ndf 4.425e+04 / 55
p0 113.8 ± 0.1116
600
500
400
300
200
100
4439. 0
4439. 1
4439. 2
4439. 3
4439. 4
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4441. 2
4441. 3
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

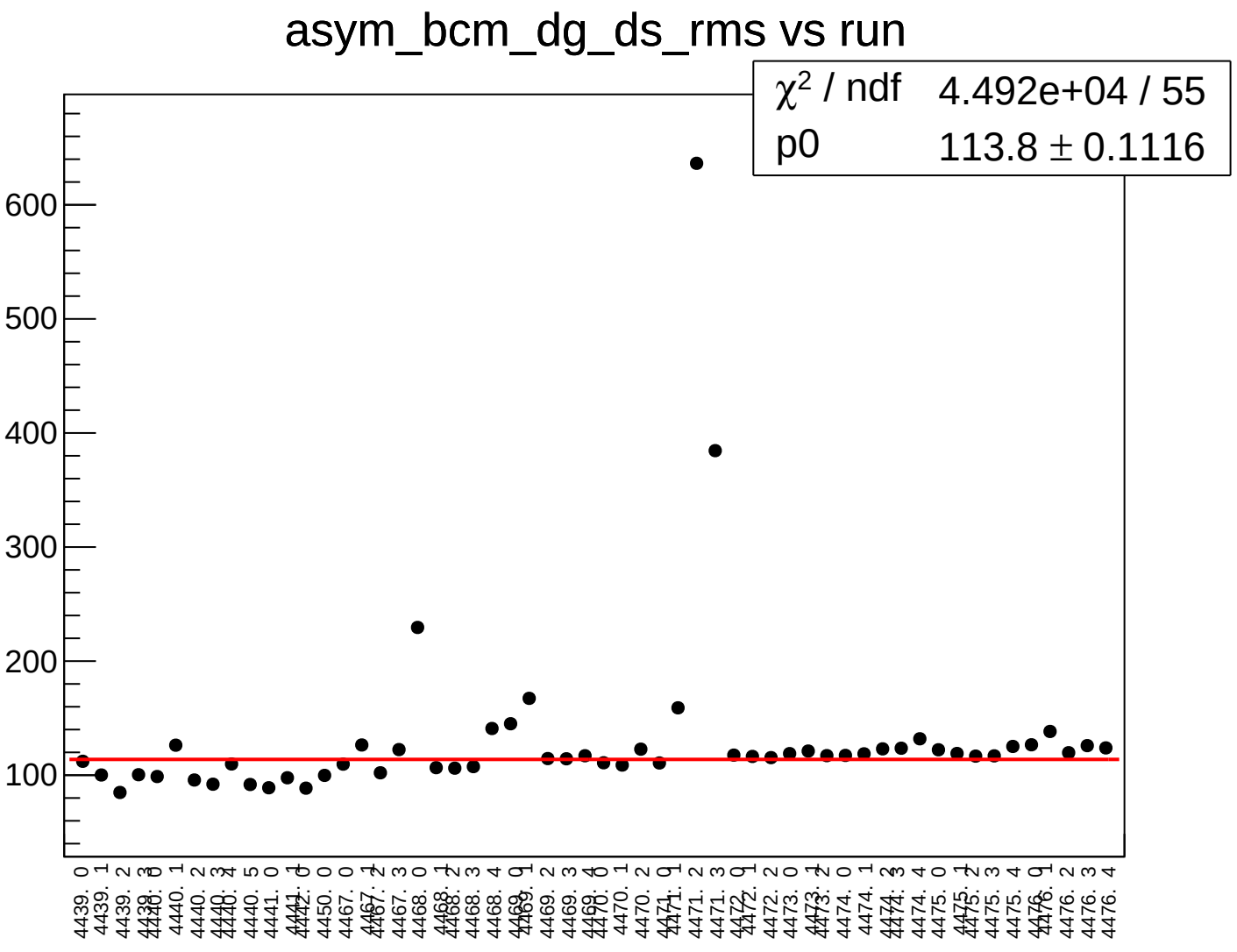

asym_bcm_dg_us_mean vs run
χ² / ndf 14.83 / 55
p0 −135.2 ± 165.8
pull
Entries 56
Mean 21.15
Std Dev 19.54


pull1D
Entries 56
Mean 0.02615
Std Dev 0.514


asym_bcm_dg_us_rms vs run
χ² / ndf 4.777e+04 / 55
p0 119.4 ± 0.1172
700
600
500
400
300
200
100


asym_bcm_dg_ds_mean vs run
χ² / ndf 7.81 / 55
p0 −88.25 ± 157.9
pull
Entries 56
Mean 45.85
Std Dev 5.145


pull1D
Entries 56
Mean 0.01889
Std Dev 0.373


asym_bcm_dg_ds_rms vs run
χ² / ndf 4.492e+04 / 55
p0 113.8 ± 0.1116
600
500
400
300
200
100
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
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4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
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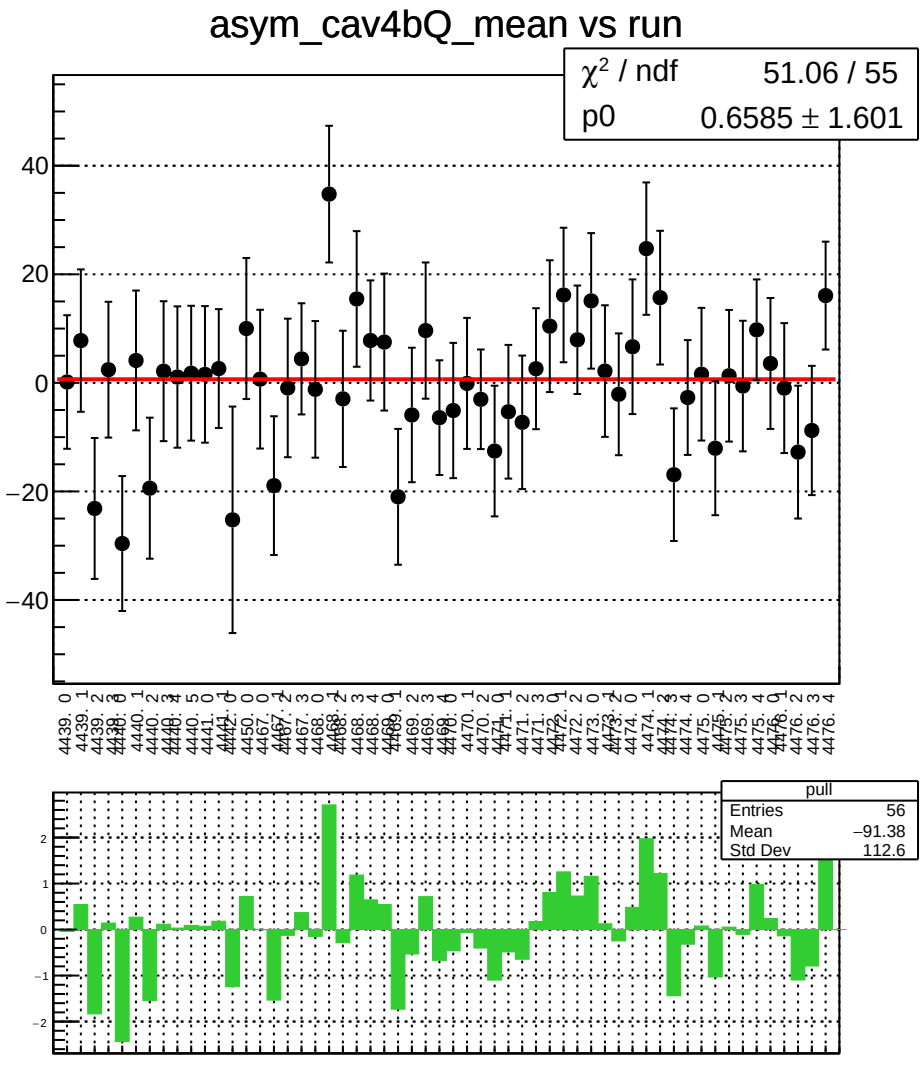
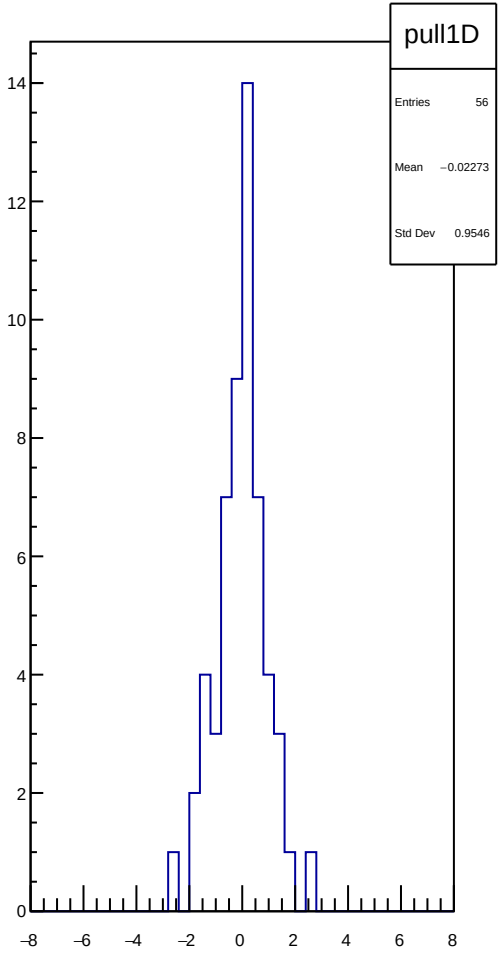
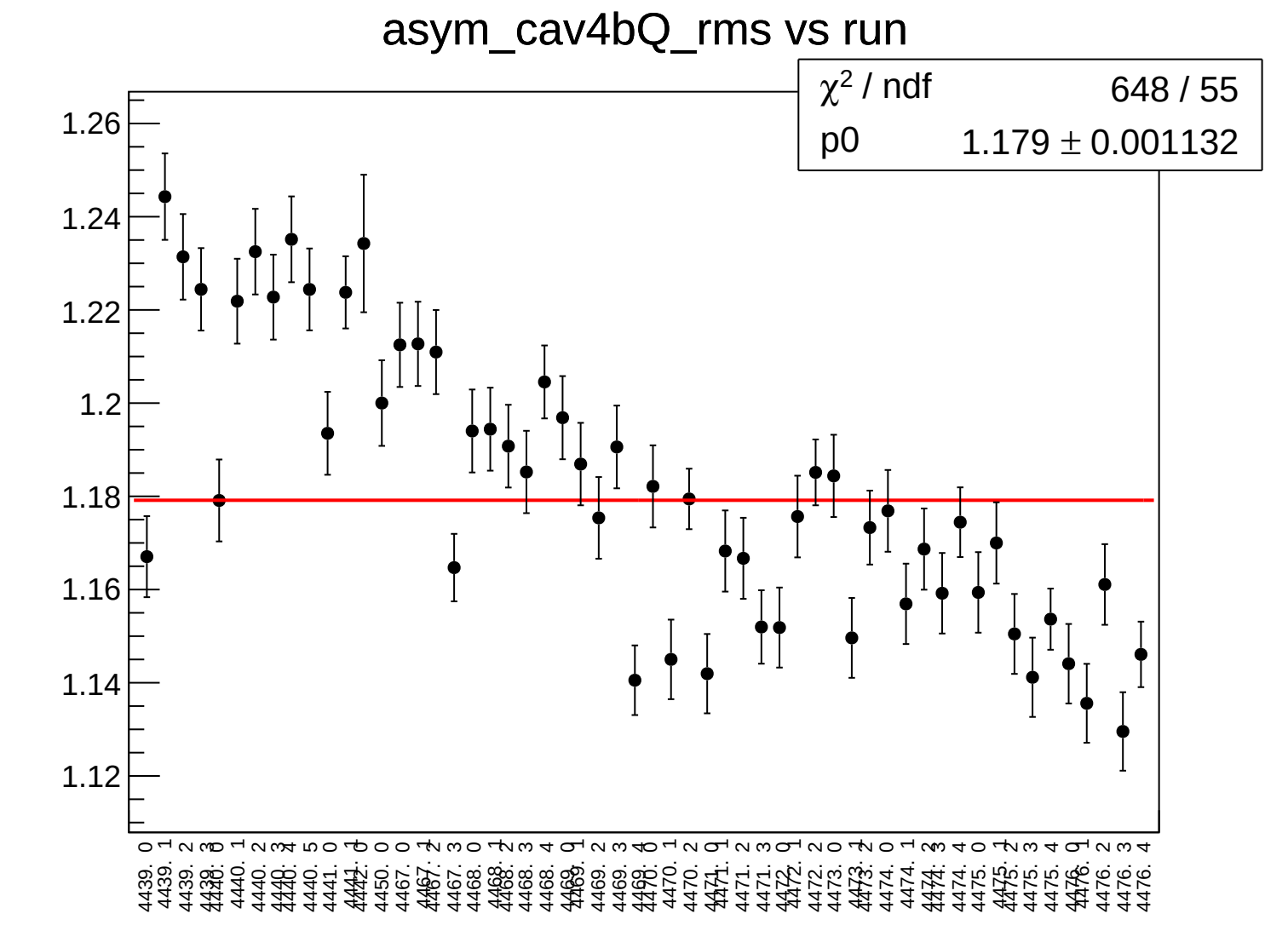
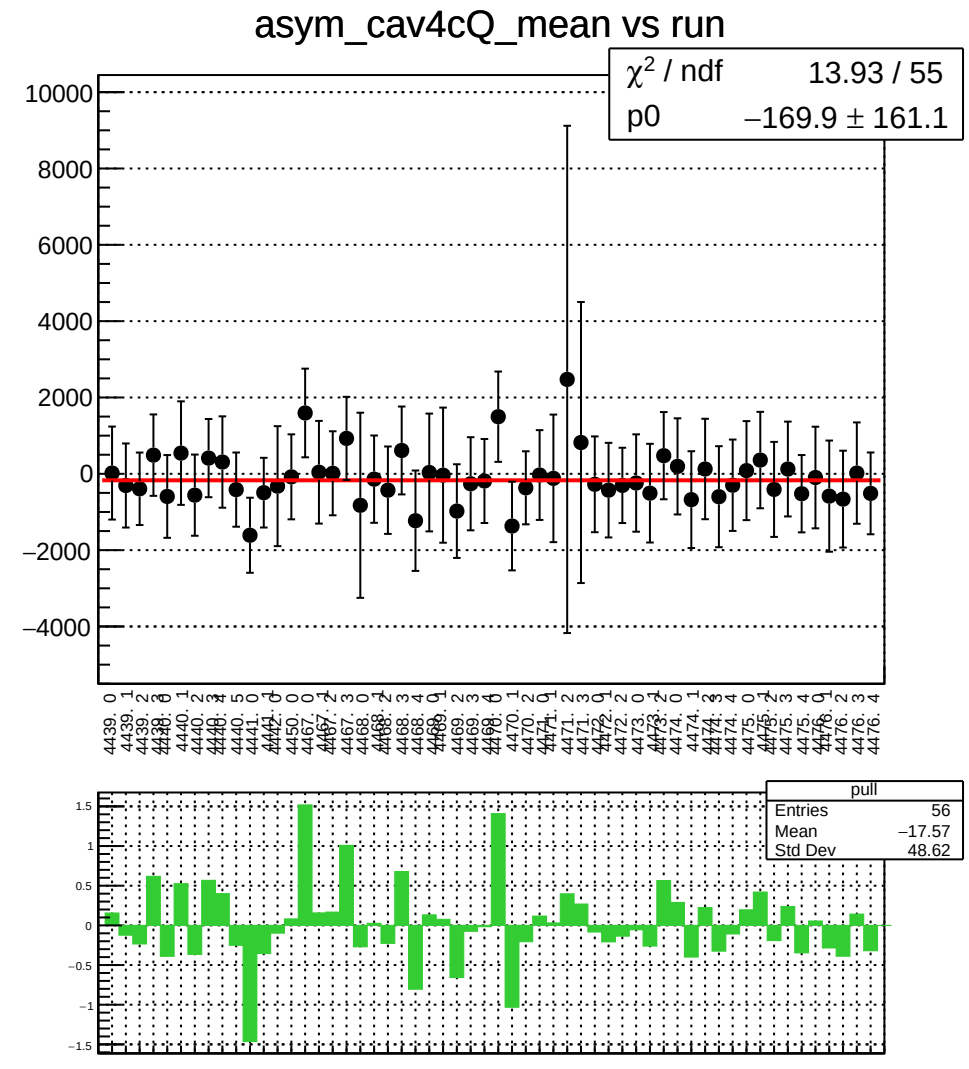
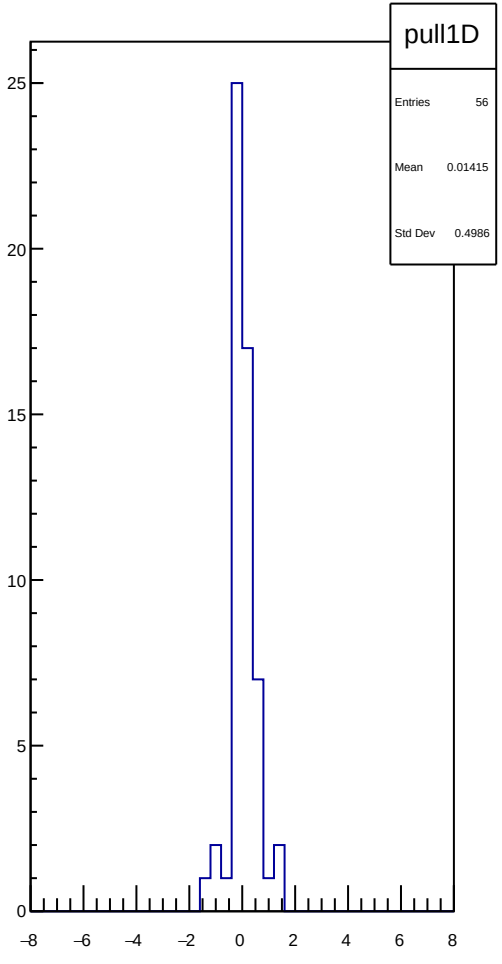
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

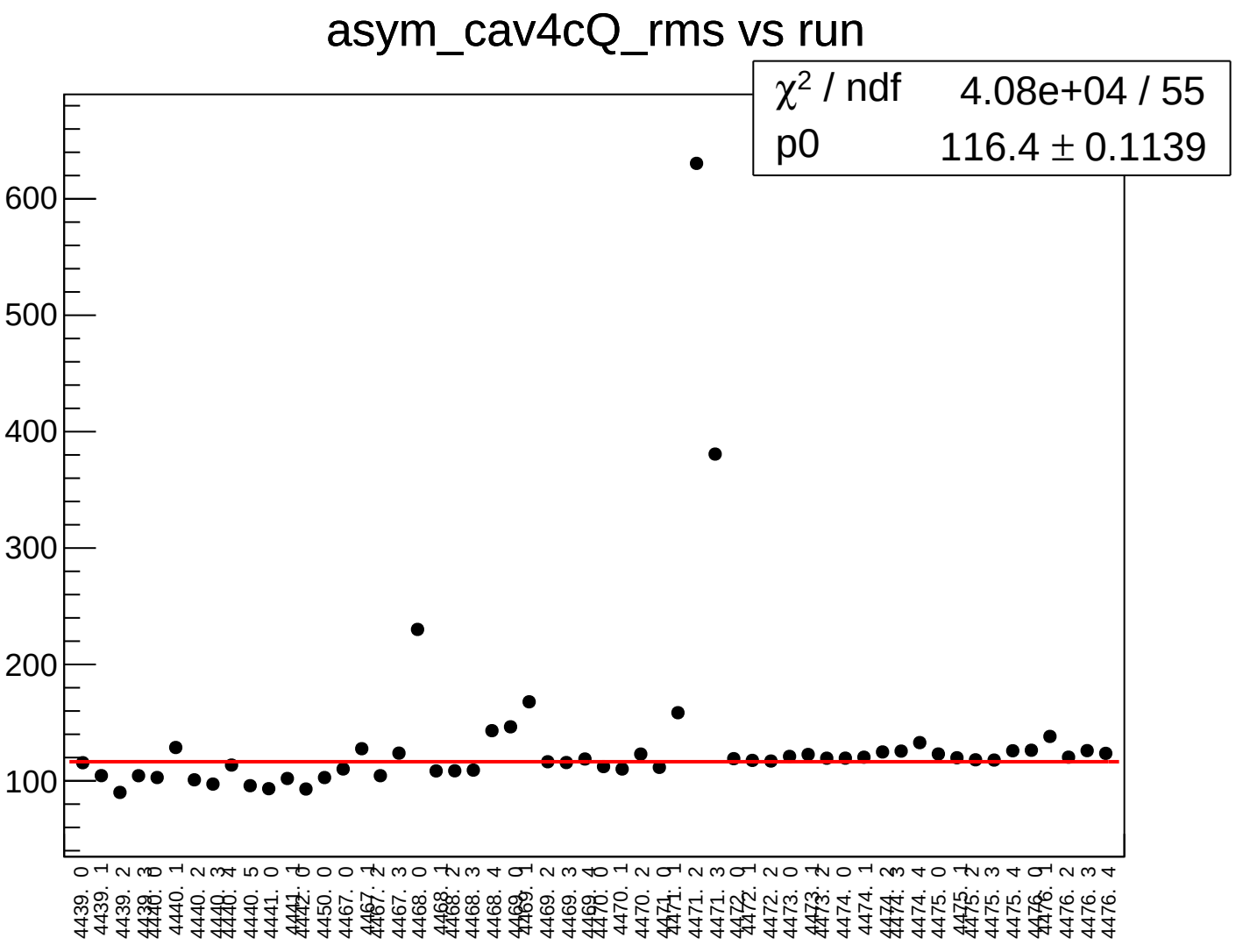

asym_cav4bQ_mean vs run
χ^2 / ndf 51.06 / 55
p0 0.6585 ± 1.601
pull
Entries 56
Mean −91.38
Std Dev 112.6

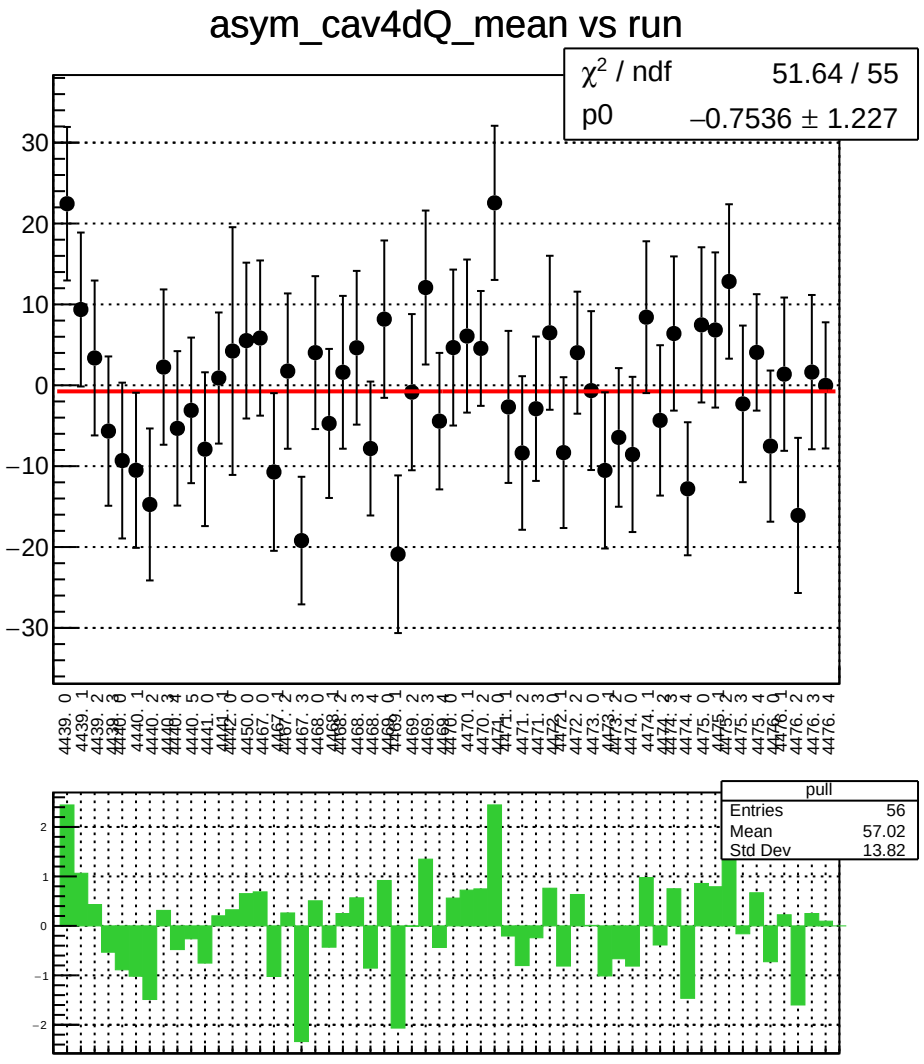

pull1D
Entries 56
Mean −0.02273
Std Dev 0.9546

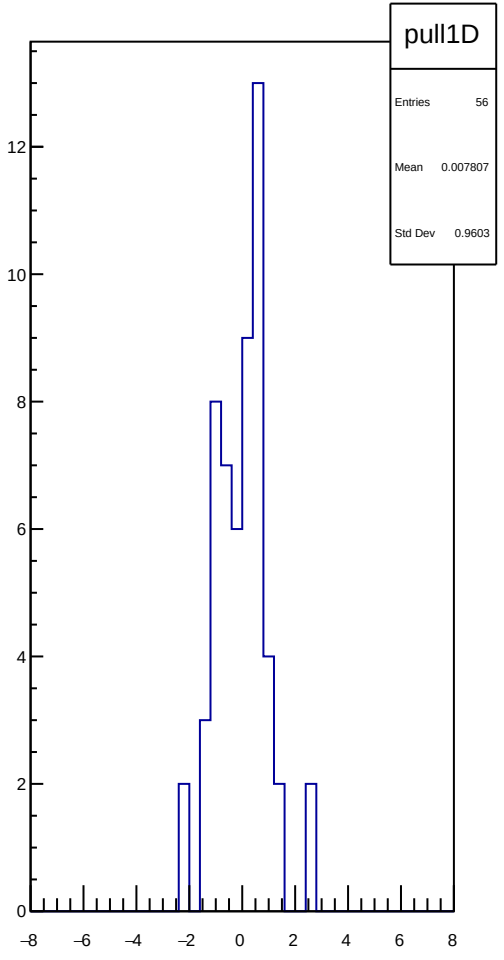

asym_cav4bQ_rms vs run
χ² / ndf 648 / 55
p0 1.179 ± 0.001132
1.26
1.24
1.22
1.2
1.18
1.16
1.14
1.12

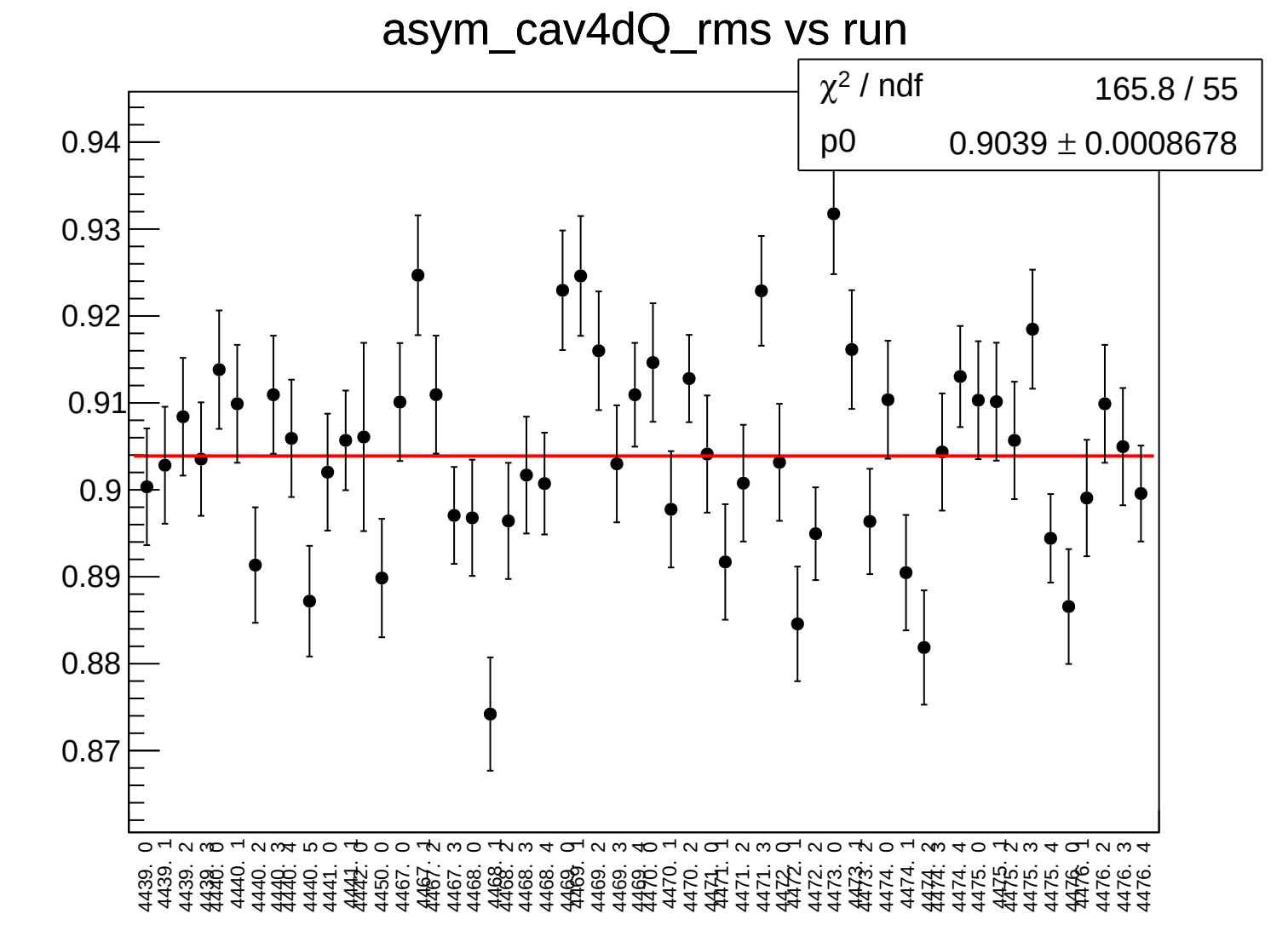

asym_cav4cQ_mean vs run
χ² / ndf 13.93 / 55
p0 −169.9 ± 161.1
pull
Entries 56
Mean −17.57
Std Dev 48.62

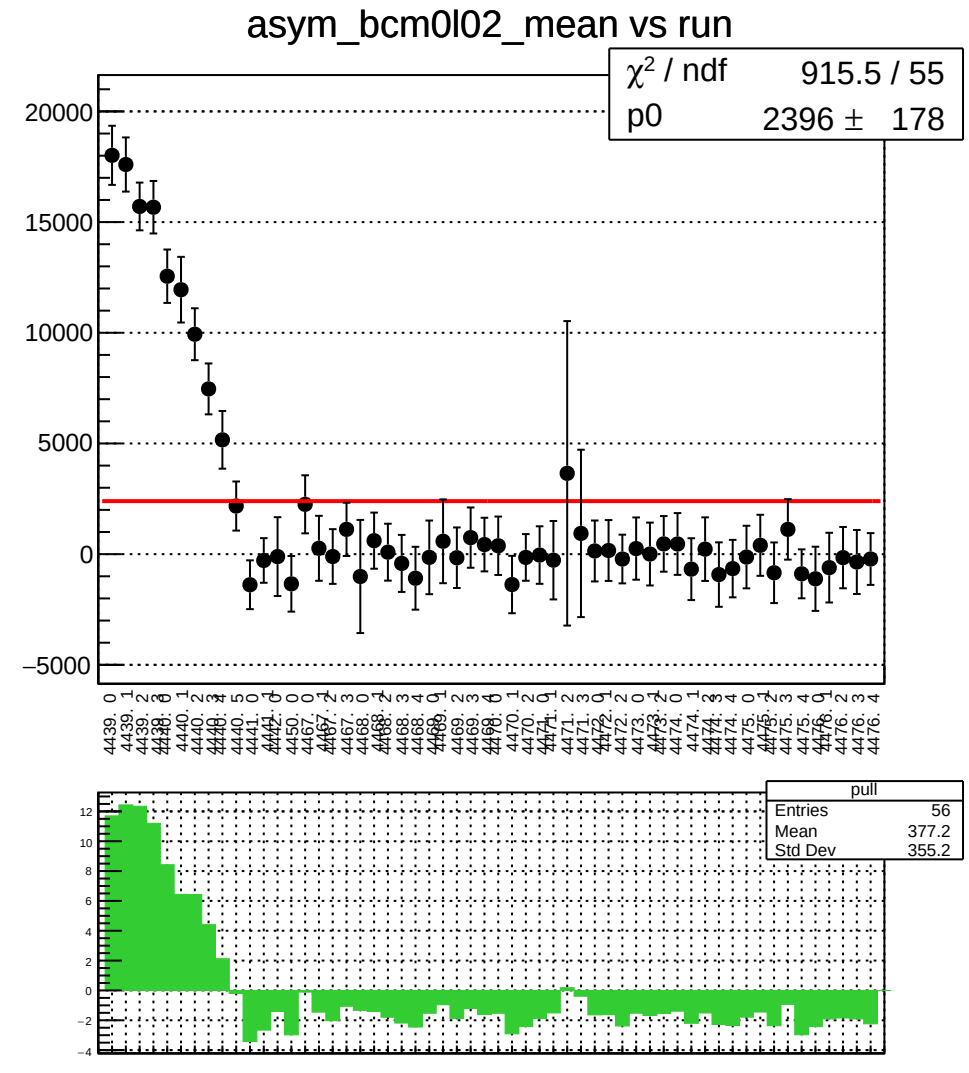

pull1D
Entries 56
Mean 0.01415
Std Dev 0.4986

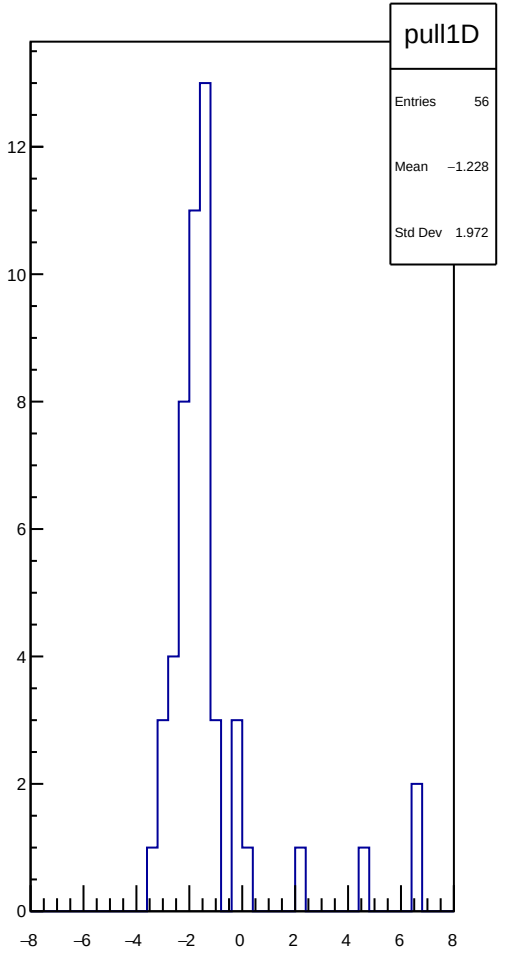

asym_cav4cQ_rms vs run
χ² / ndf 4.08e+04 / 55
p0 116.4 ± 0.1139
600
500
400
300
200
100

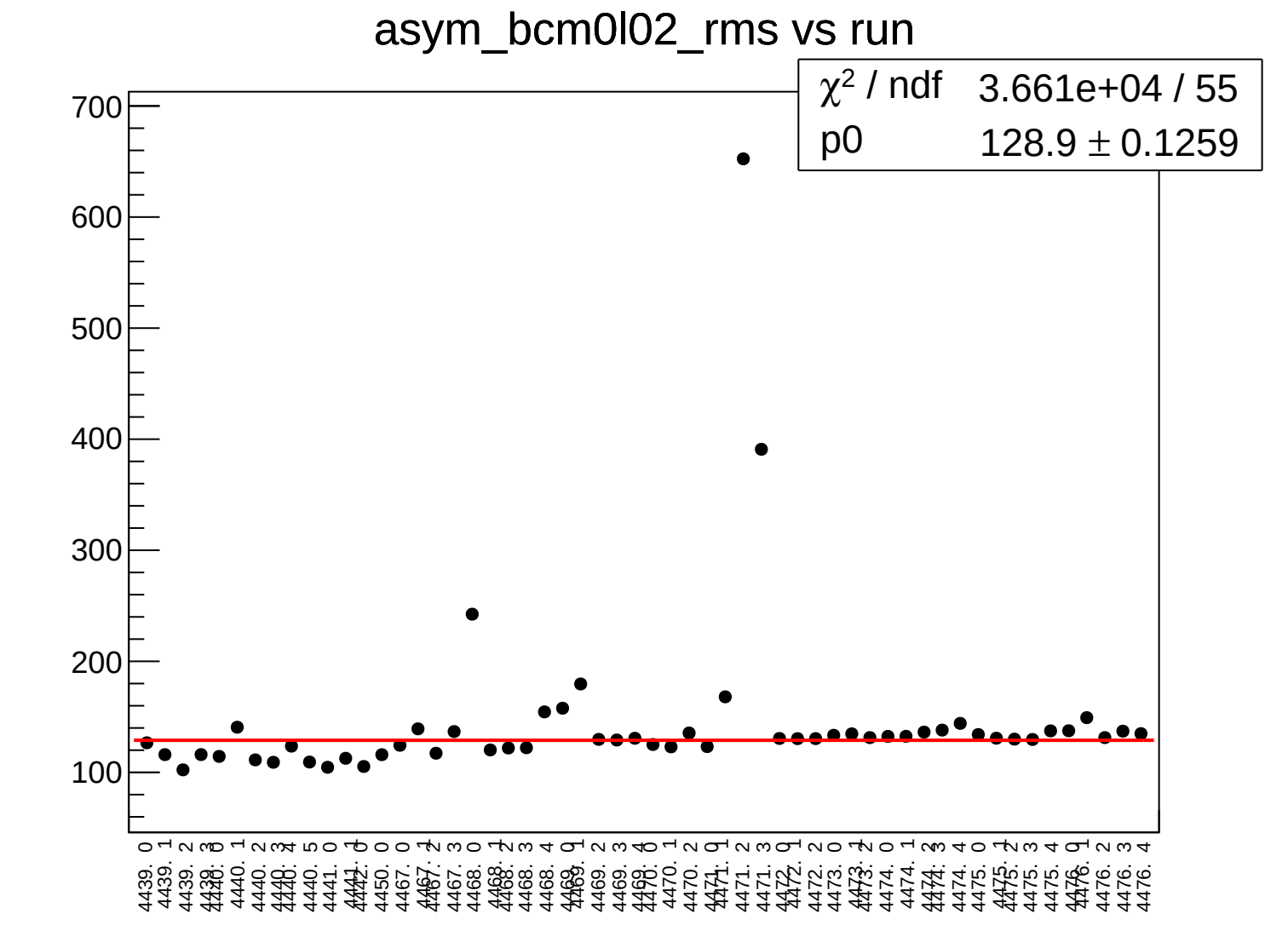

asym_cav4dQ_mean vs run
χ² / ndf 51.64 / 55
p0 −0.7536 ± 1.227
pull
Entries 56
Mean 57.02
Std Dev 13.82

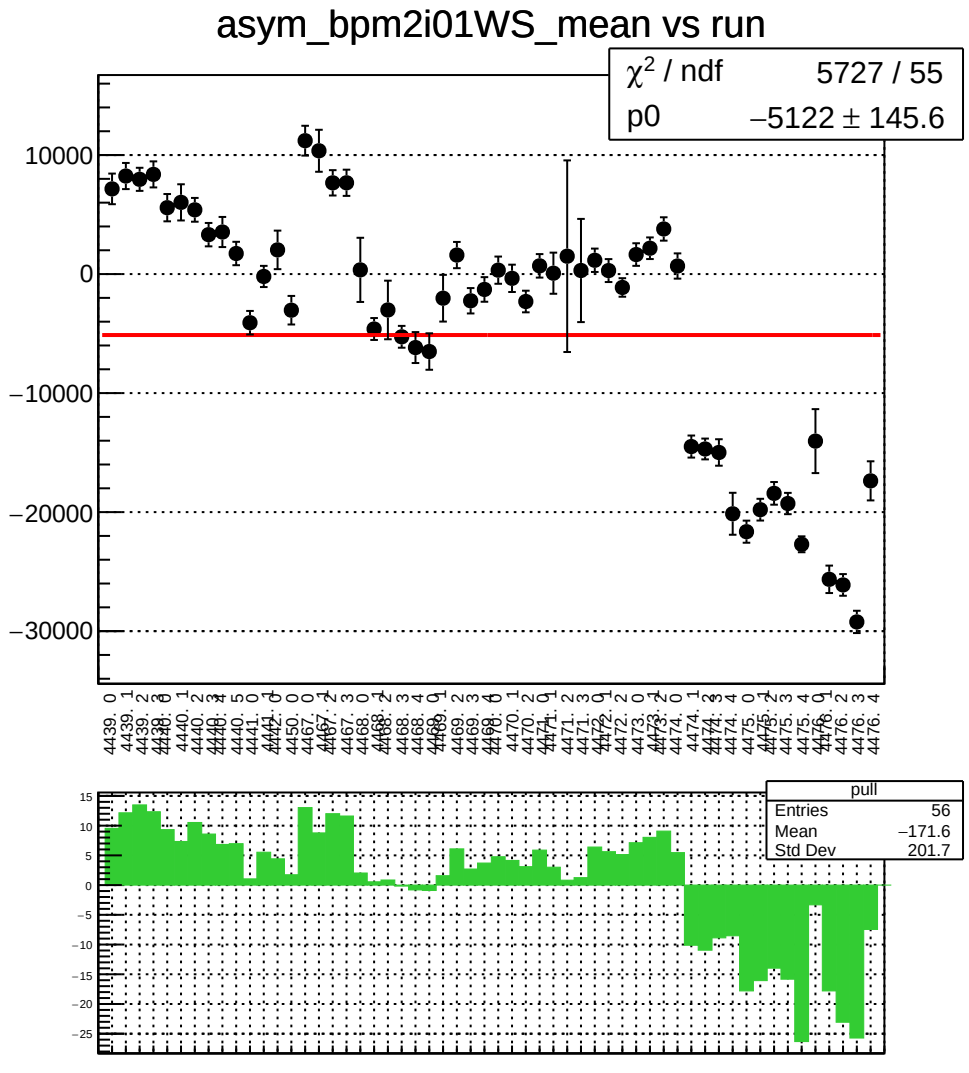

pull1D
Entries 56
Mean 0.007807
Std Dev 0.9603

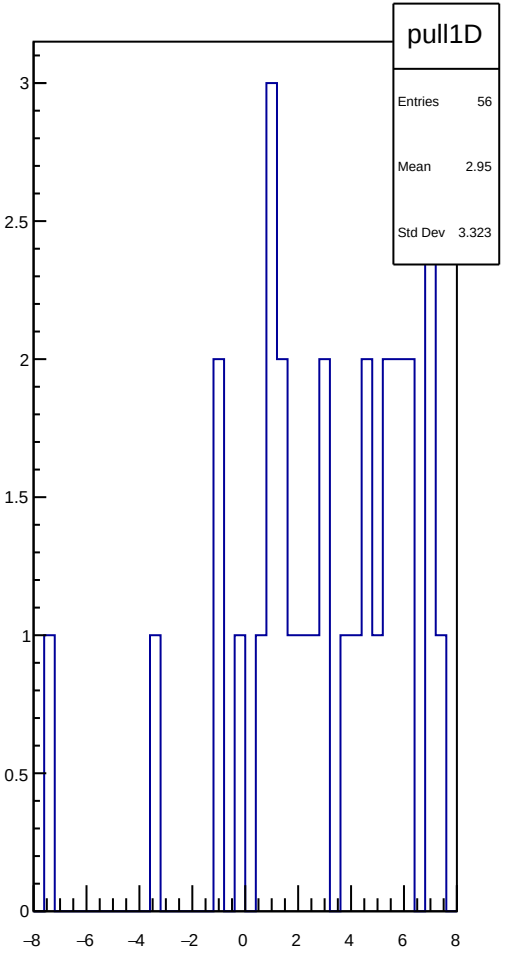

asym_cav4dQ_rms vs run
χ² / ndf 165.8 / 55
p0 0.9039 ± 0.0008678
0.94
0.93
0.92
0.91
0.9
0.89
0.88
0.87

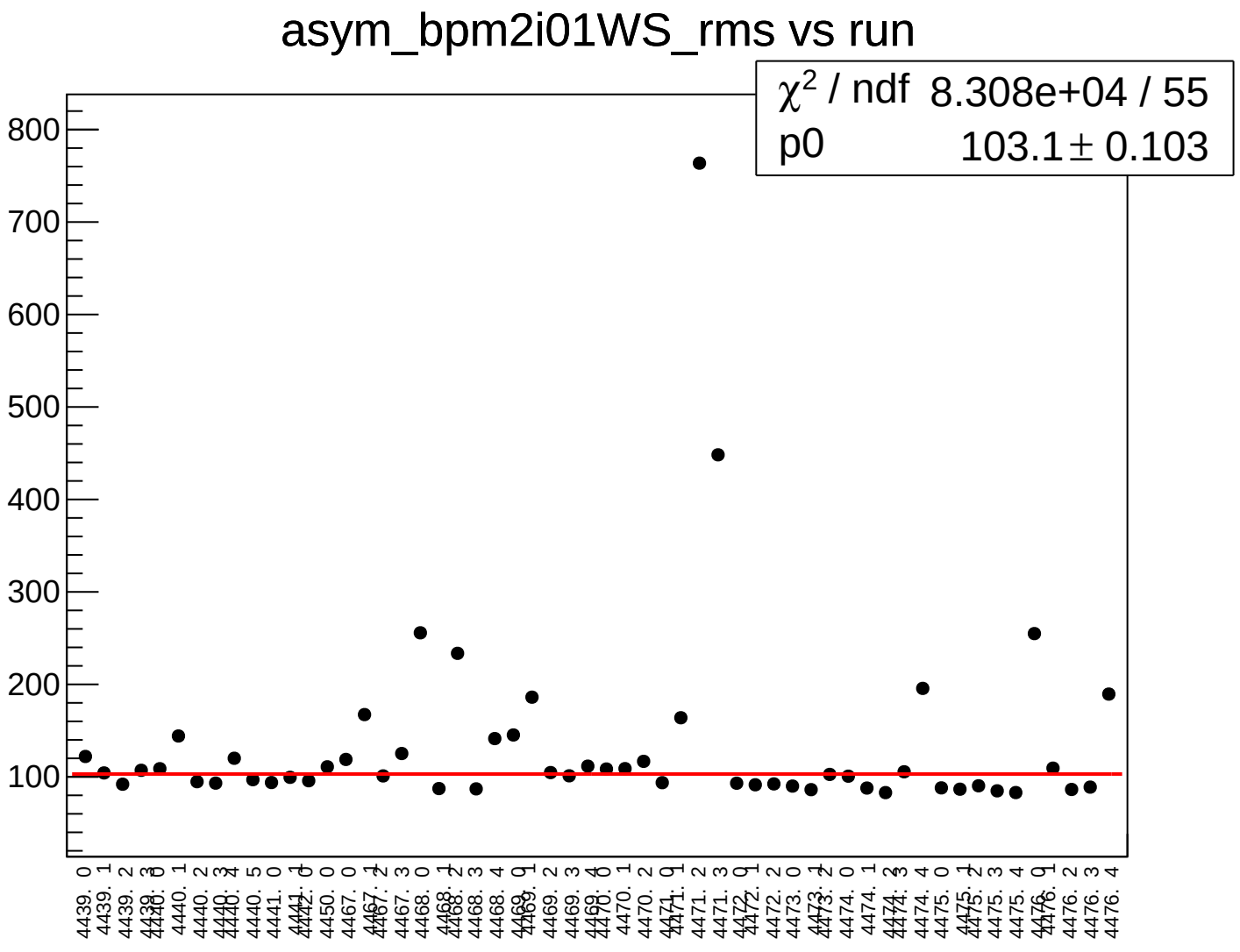

asym_bcm0l02_mean vs run
χ² / ndf 915.5 / 55
p0 2396 ± 178
pull
Entries 56
Mean 377.2
Std Dev 355.2


pull1D
Entries 56
Mean −1.228
Std Dev 1.972


asym_bcm0l02_rms vs run
χ² / ndf 3.661e+04 / 55
p0 128.9 ± 0.1259
700
600
500
400
300
200
100


asym_bpm2i01WS_mean vs run
χ² / ndf 5727 / 55
p0 −5122 ± 145.6
10000
0
−10000
−20000
−30000
pull
Entries 56
Mean −171.6
Std Dev 201.7
15
10
5
0
−5
−10
−15
−20
−25


pull1D
Entries 56
Mean 2.95
Std Dev 3.323
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm2i01WS_rms vs run
χ^2 / ndf 8.308e+04 / 55
p0 103.1 ± 0.103
800
700
600
500
400
300
200
100
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
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4467. 1
4467. 2
4467. 3
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4468. 4
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4476. 0
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4476. 2
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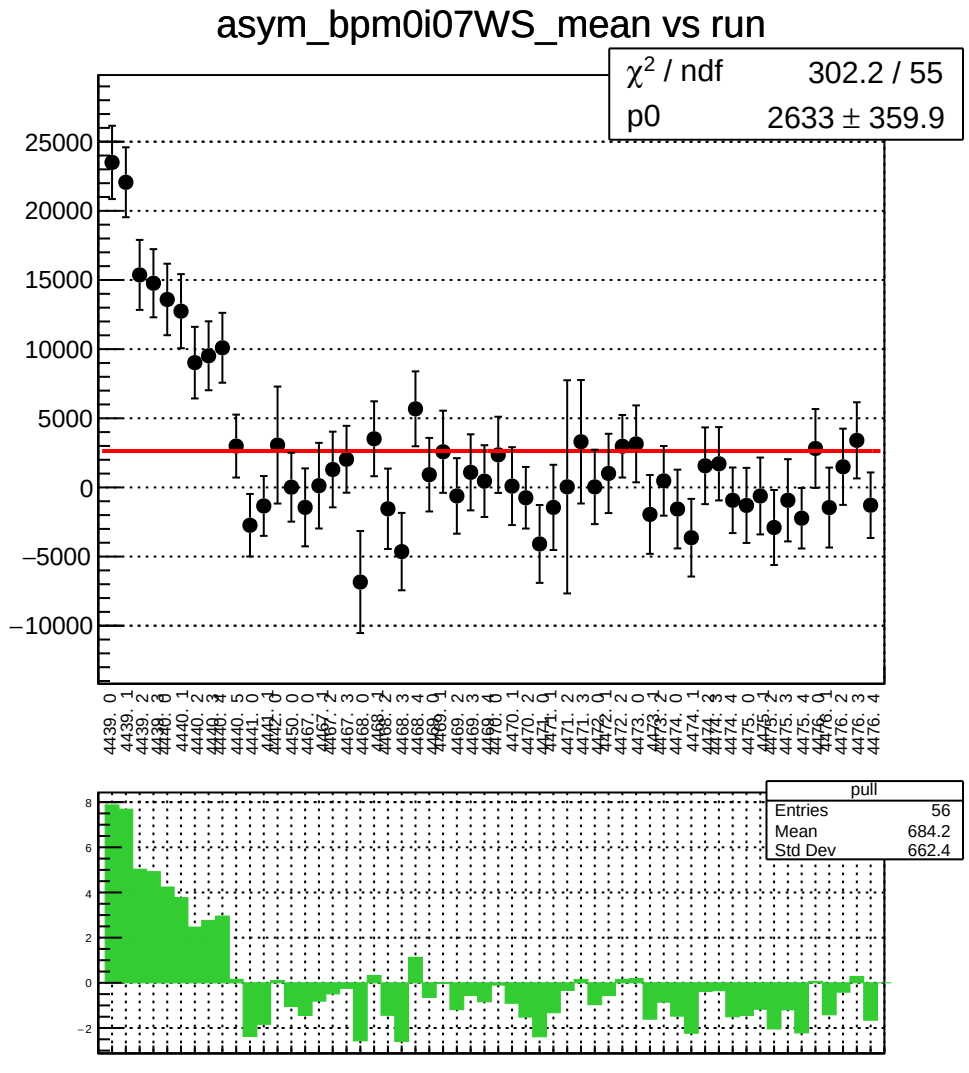
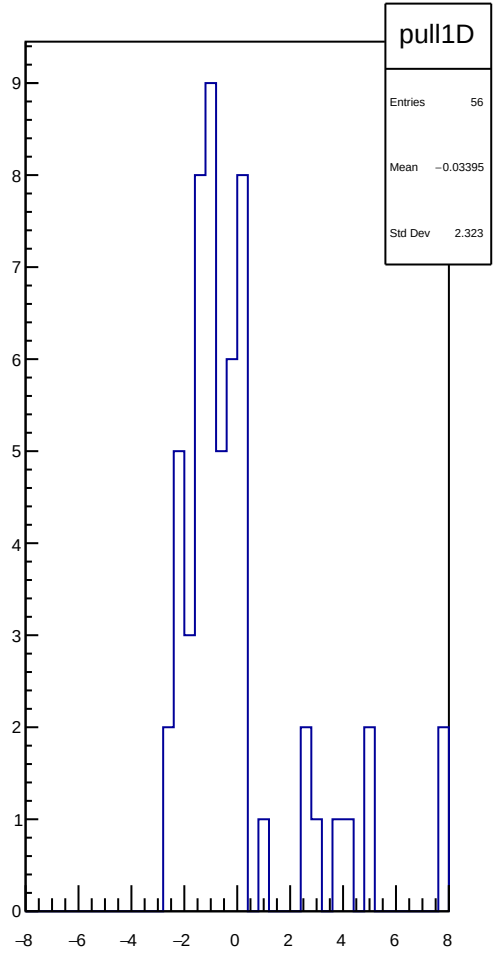
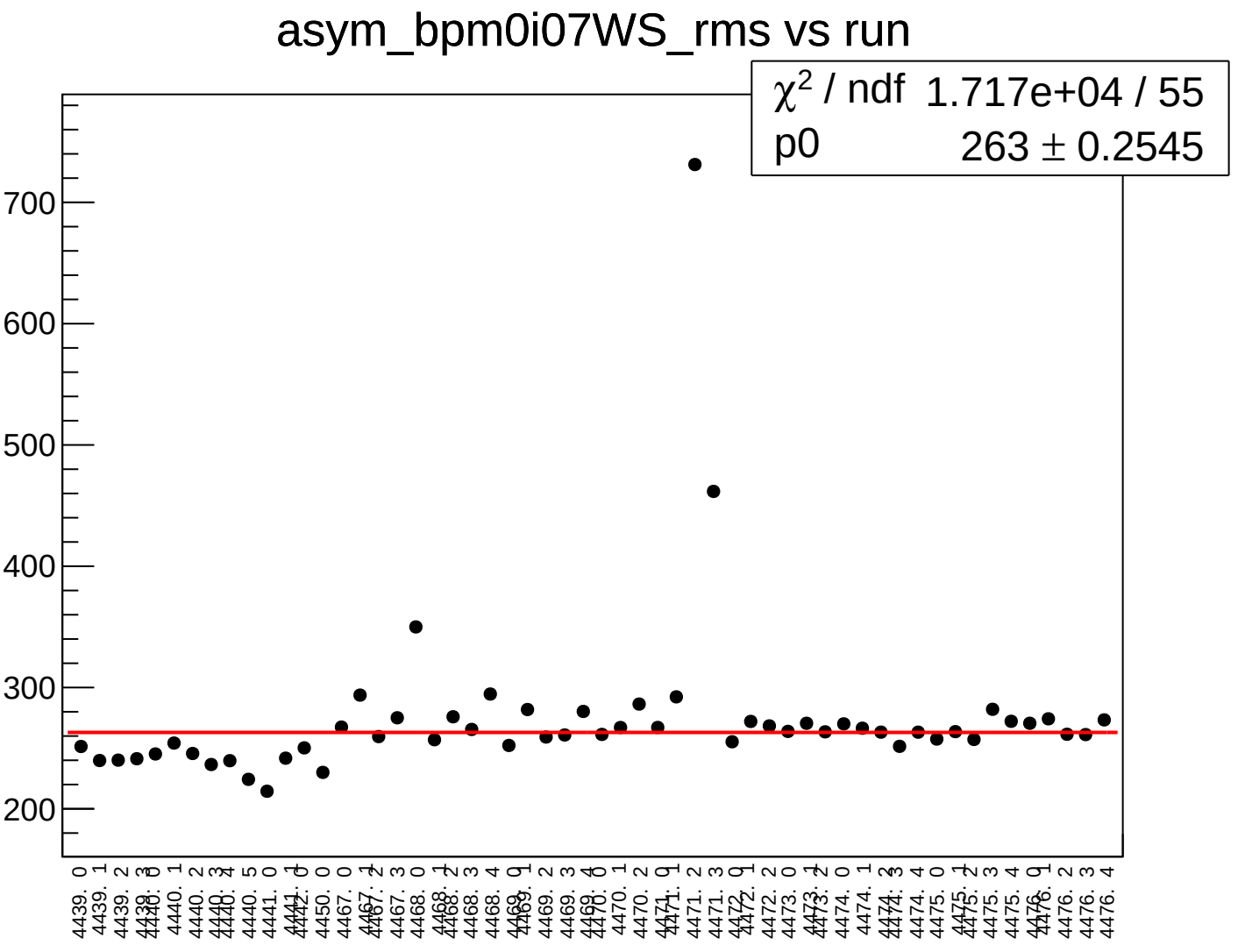
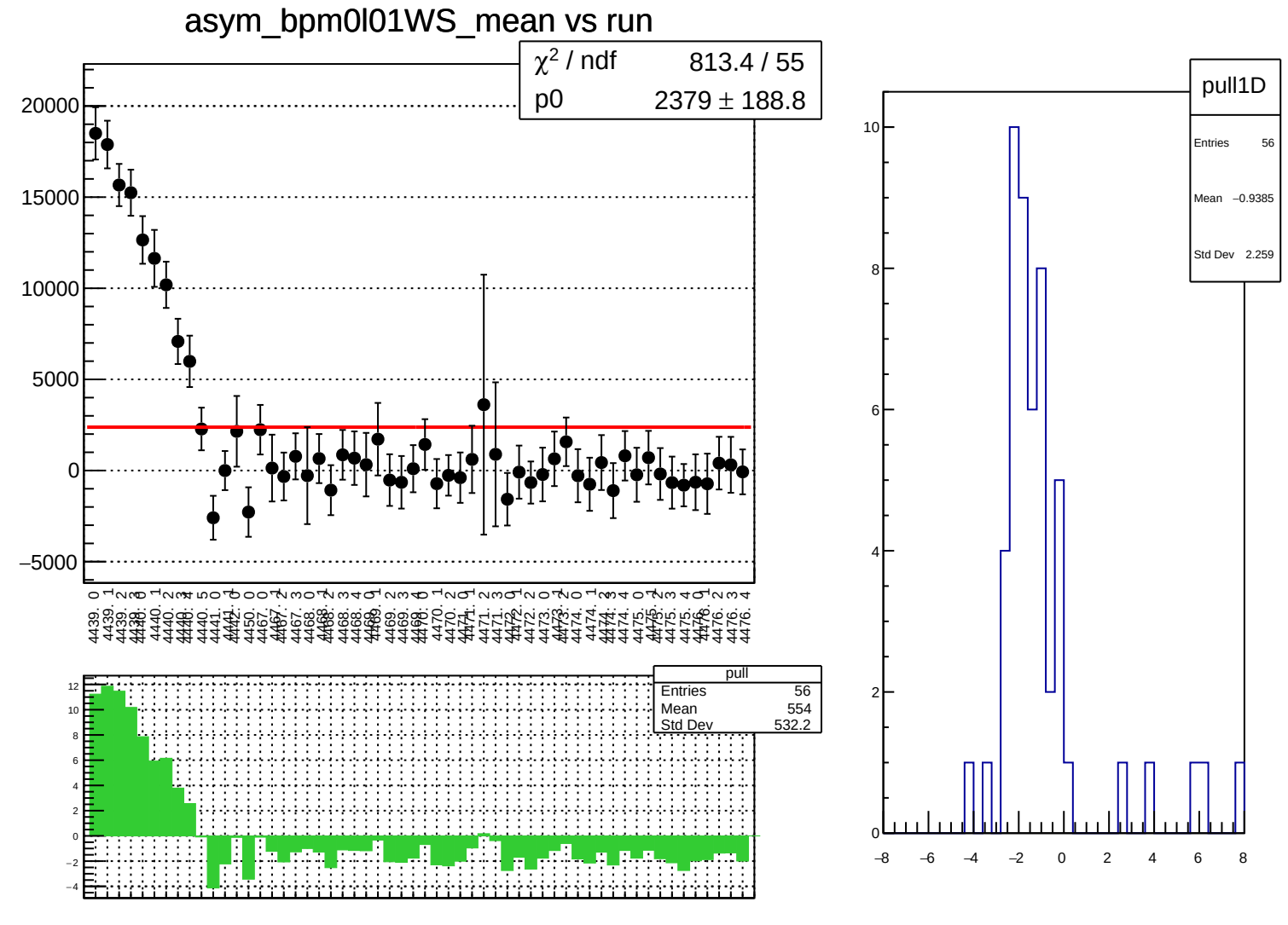
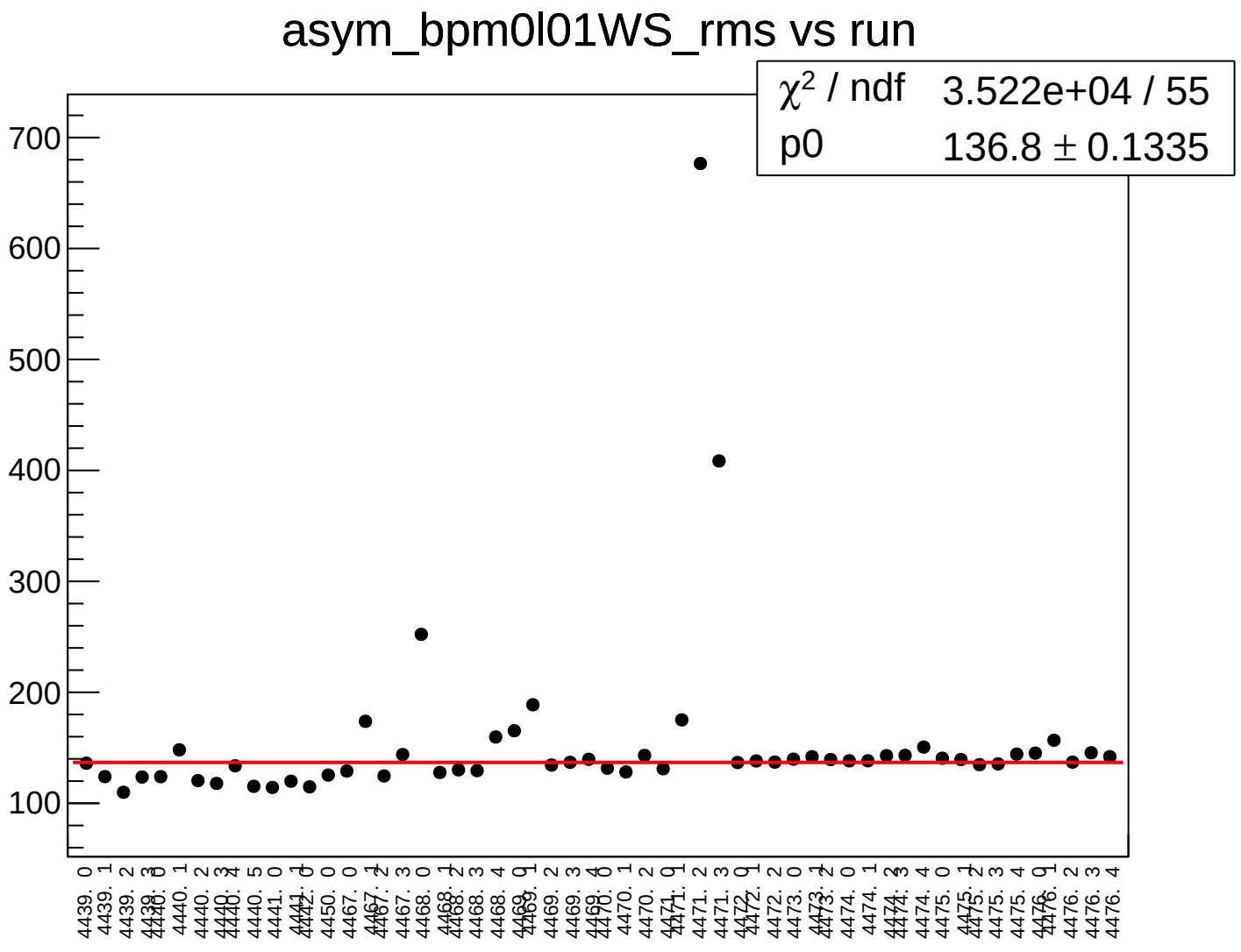
4476. 4


asym_bpm0i07WS_mean vs run
χ² / ndf 302.2 / 55
p0 2633 ± 359.9
pull
Entries 56
Mean 684.2
Std Dev 662.4


pull1D
Entries 56
Mean −0.03395
Std Dev 2.323


asym_bpm0i07WS_rms vs run
χ² / ndf 1.717e+04 / 55
p0 263 ± 0.2545
700
600
500
400
300
200


asym_bpm0l01WS_mean vs run
χ² / ndf 813.4 / 55
p0 2379 ± 188.8
pull
Entries 56
Mean 554
Std Dev 532.2
pull1D
Entries 56
Mean −0.9385
Std Dev 2.259


asym_bpm0l01WS_rms vs run
χ² / ndf 3.522e+04 / 55
p0 136.8 ± 0.1335
700
600
500
400
300
200
100
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
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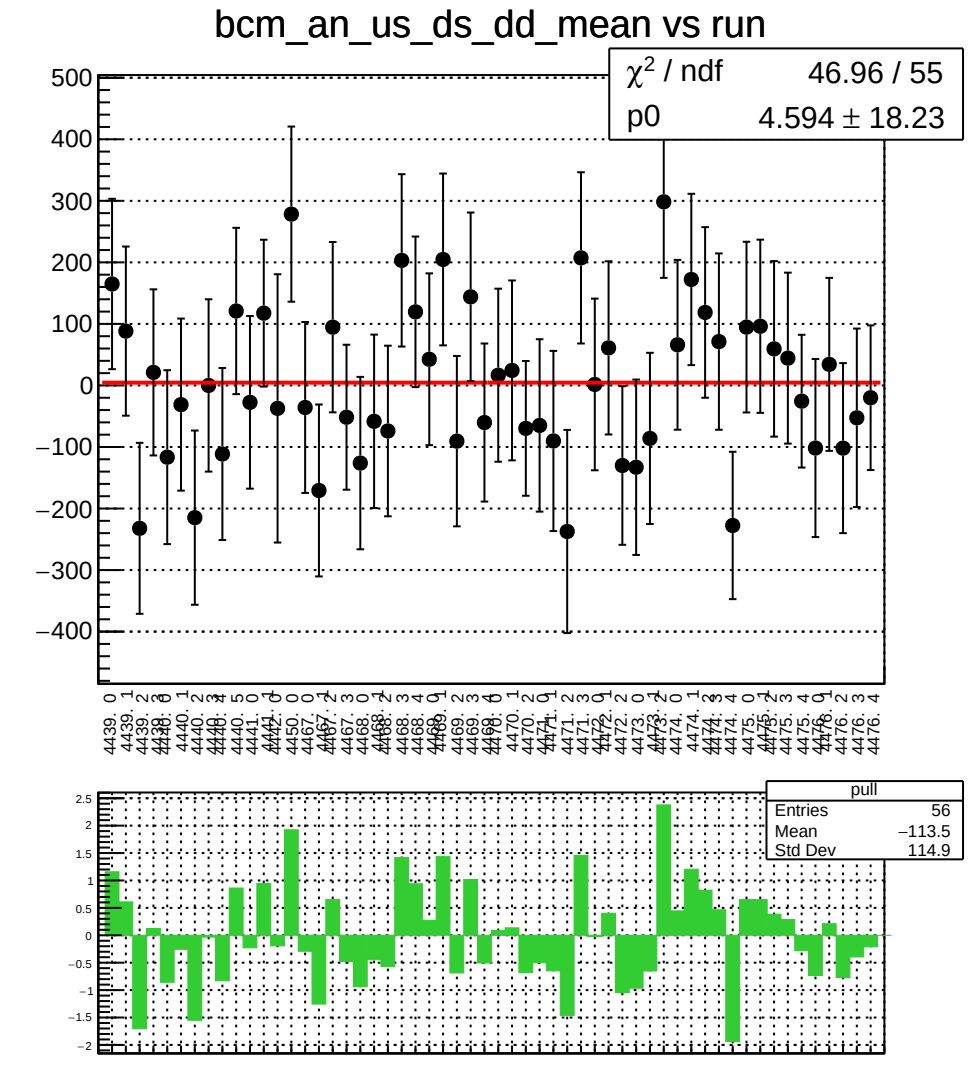
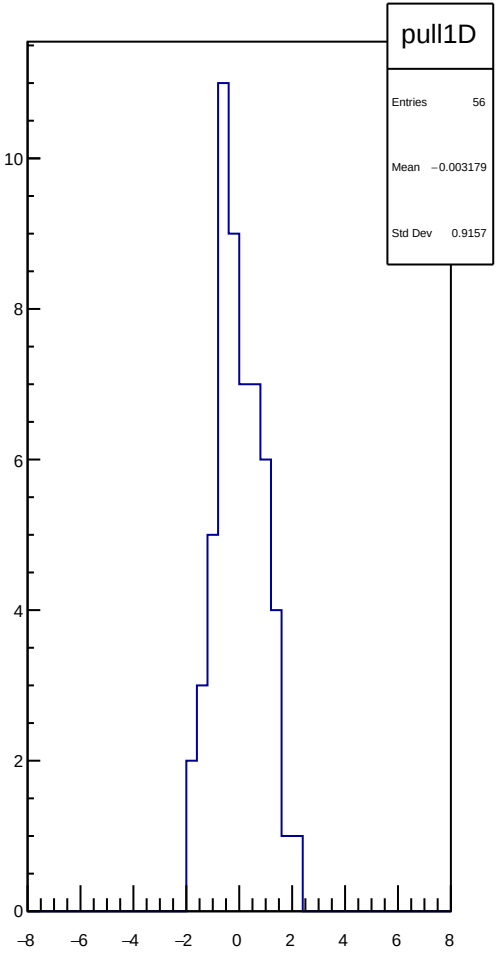
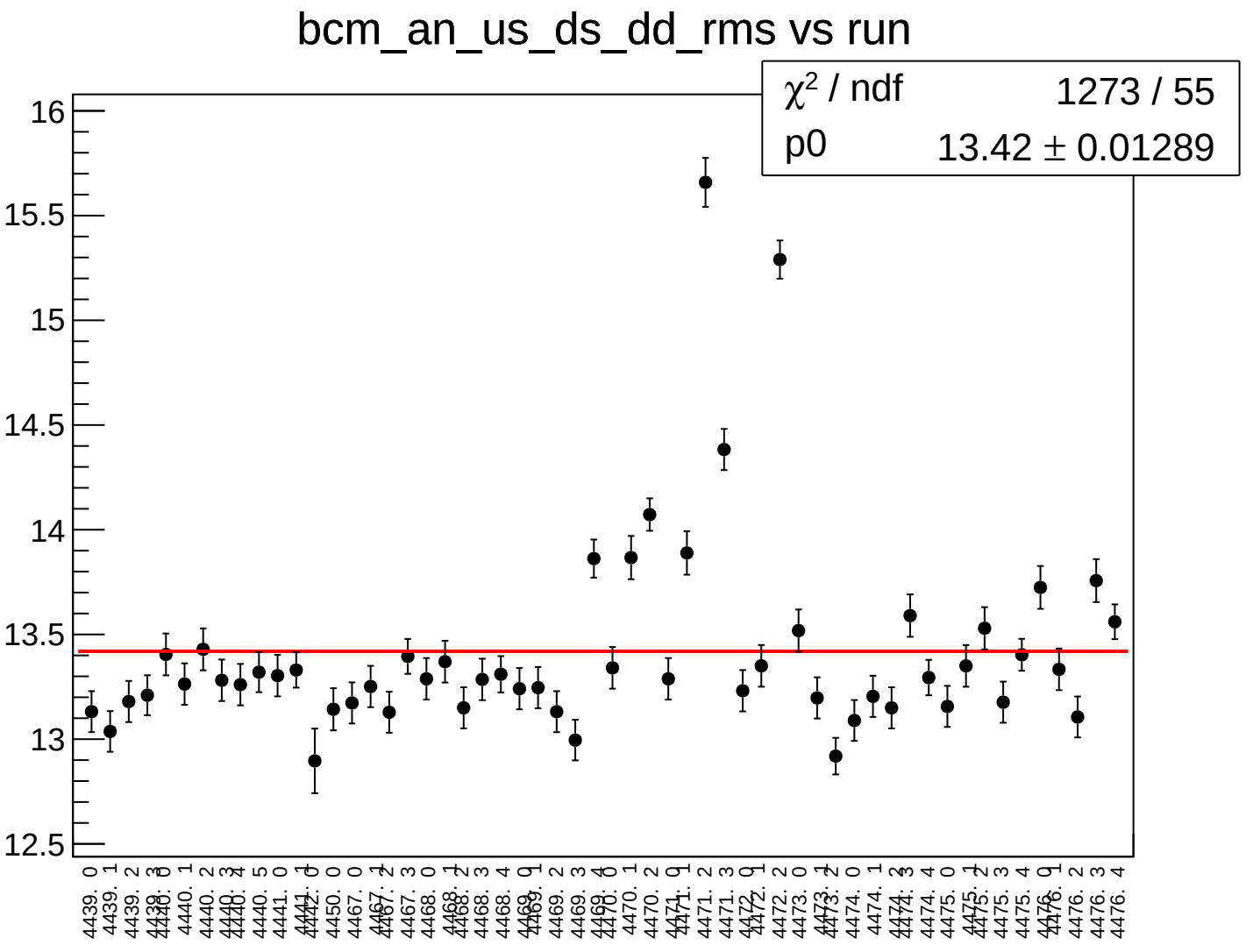
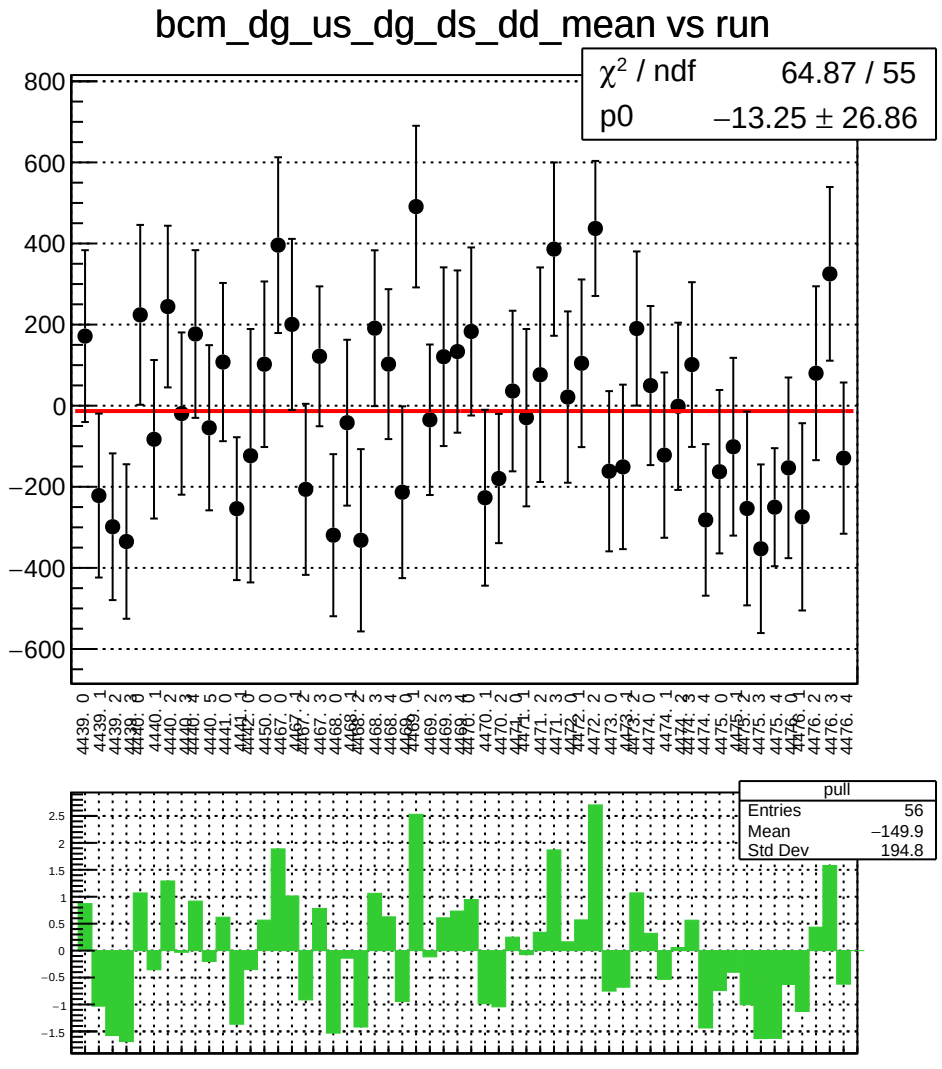
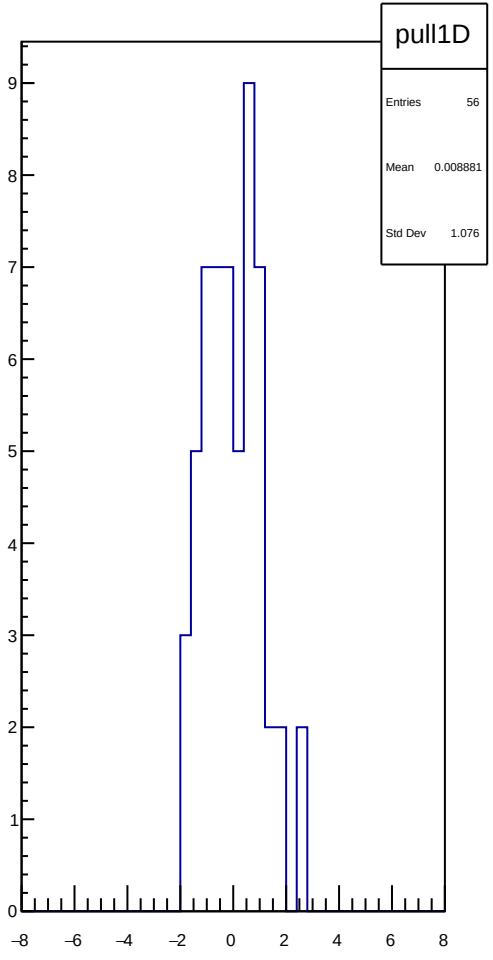
4476. 4

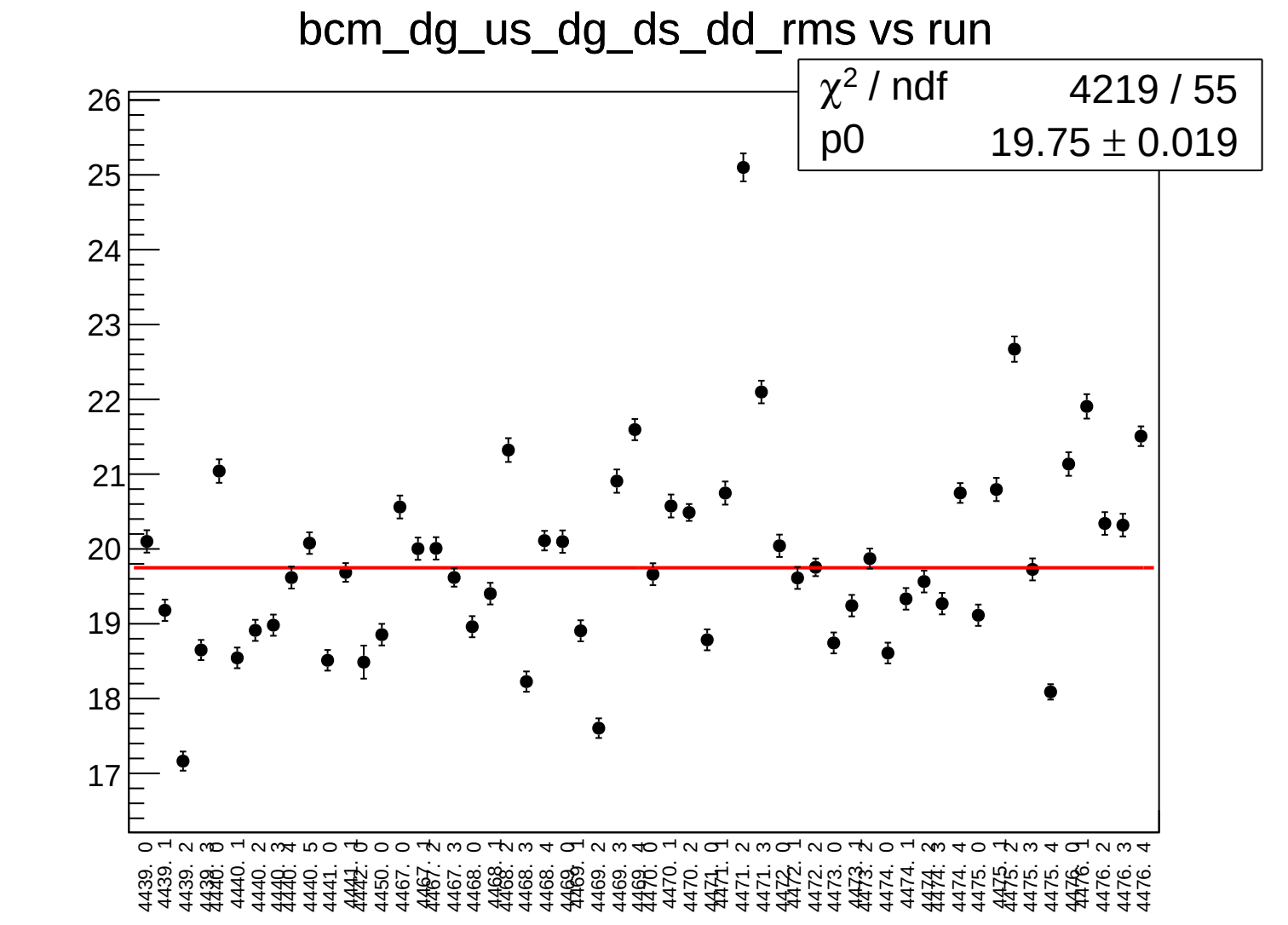

bcm_an_us_ds_dd_mean vs run
χ² / ndf 46.96 / 55
p0 4.594 ± 18.23
pull
Entries 56
Mean −113.5
Std Dev 114.9

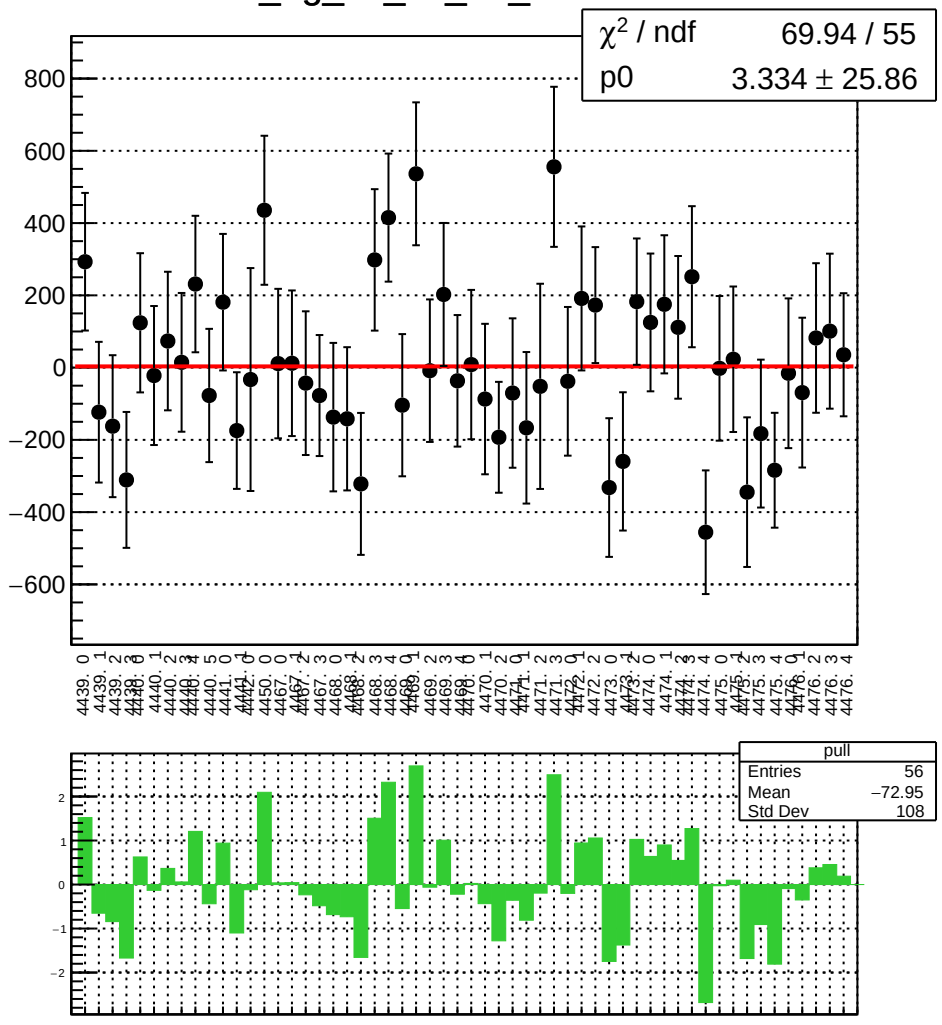

pull1D
Entries 56
Mean −0.003179
Std Dev 0.9157

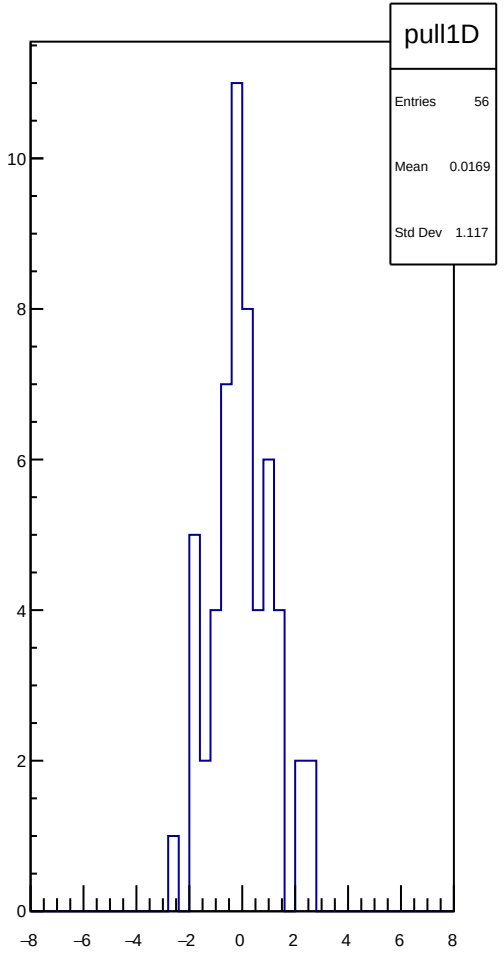

bcm_an_us_ds_dd_rms vs run
χ² / ndf 1273 / 55
p0 13.42 ± 0.01289
16
15.5
15
14.5
14
13.5
13
12.5

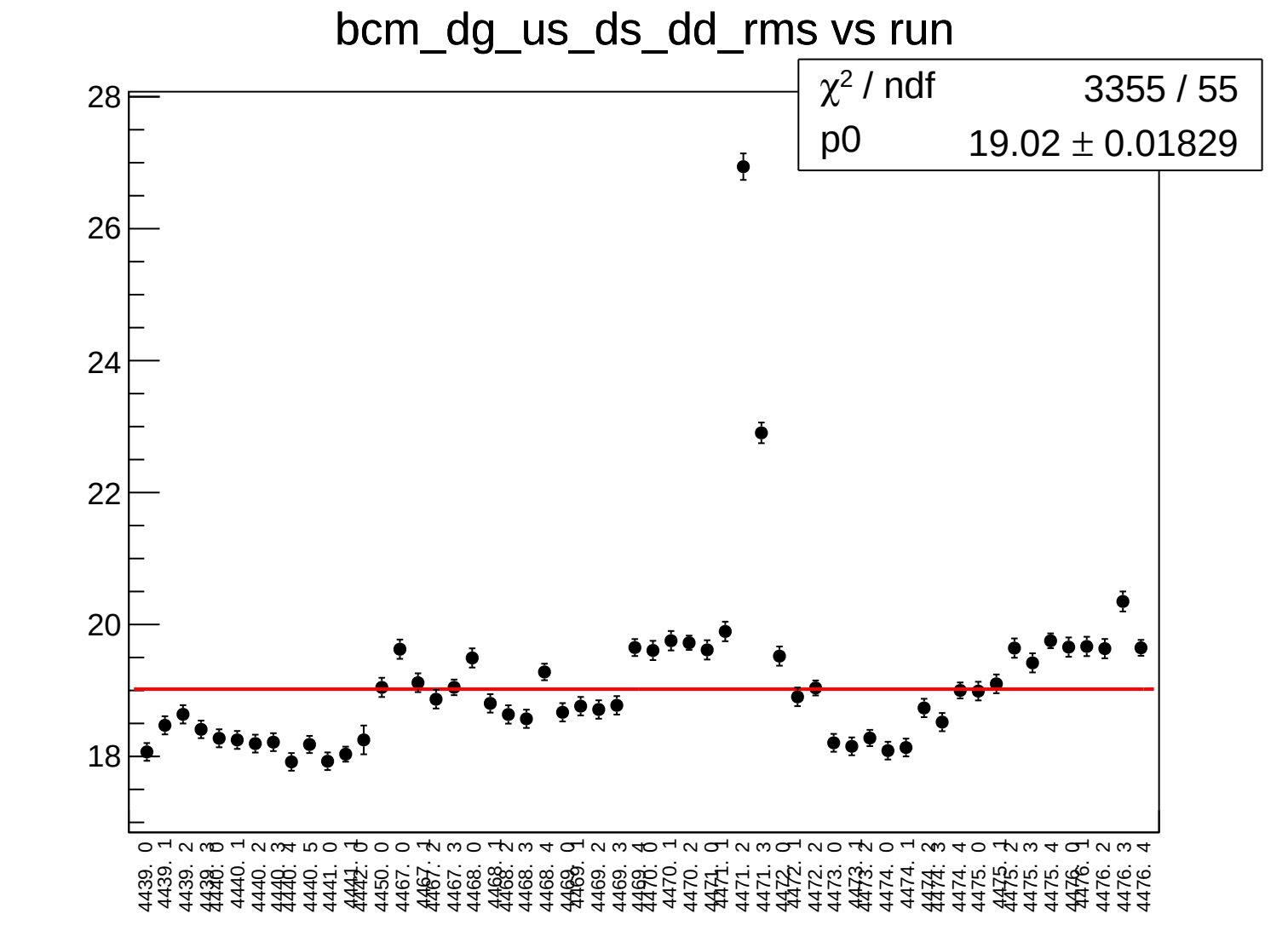

bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 64.87 / 55
p0 −13.25 ± 26.86
pull
Entries 56
Mean −149.9
Std Dev 194.8

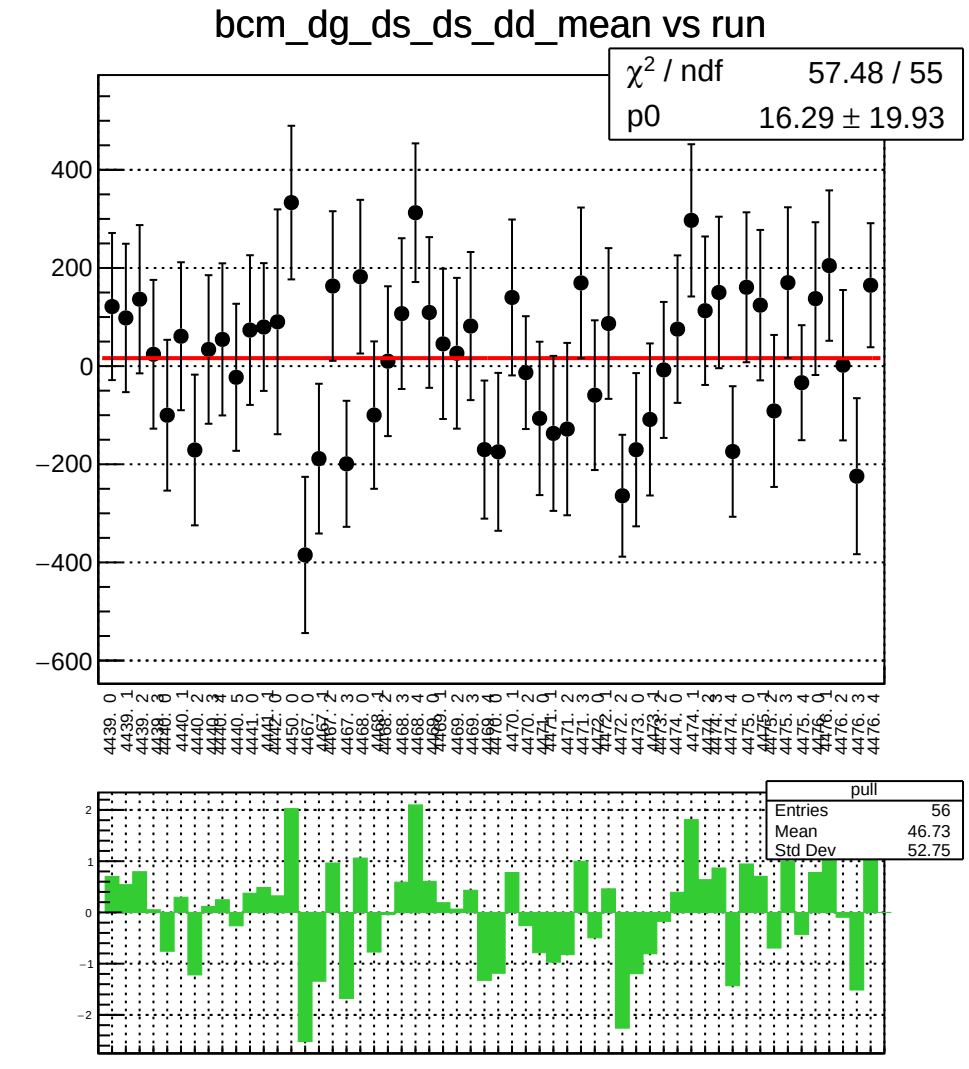

pull1D
Entries 56
Mean 0.008881
Std Dev 1.076

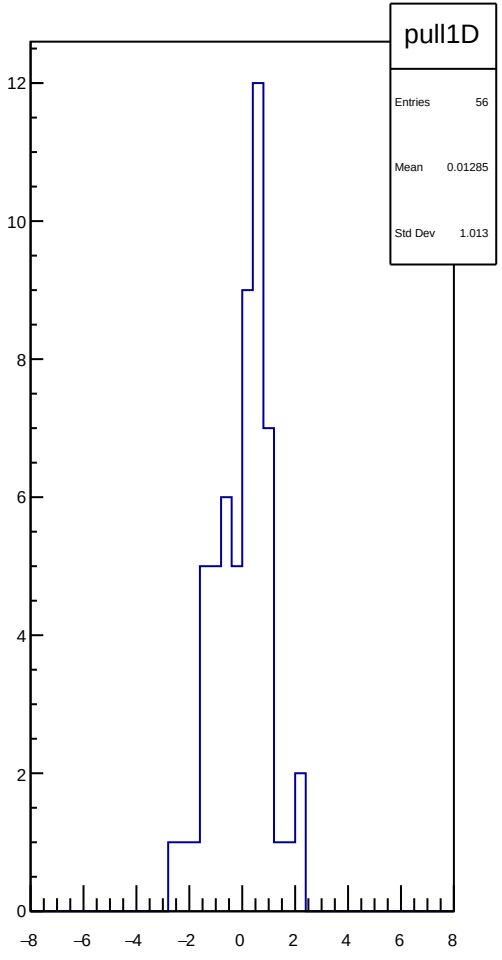

bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 4219 / 55
p0 19.75 ± 0.019
26
25
24
23
22
21
20
19
18
17

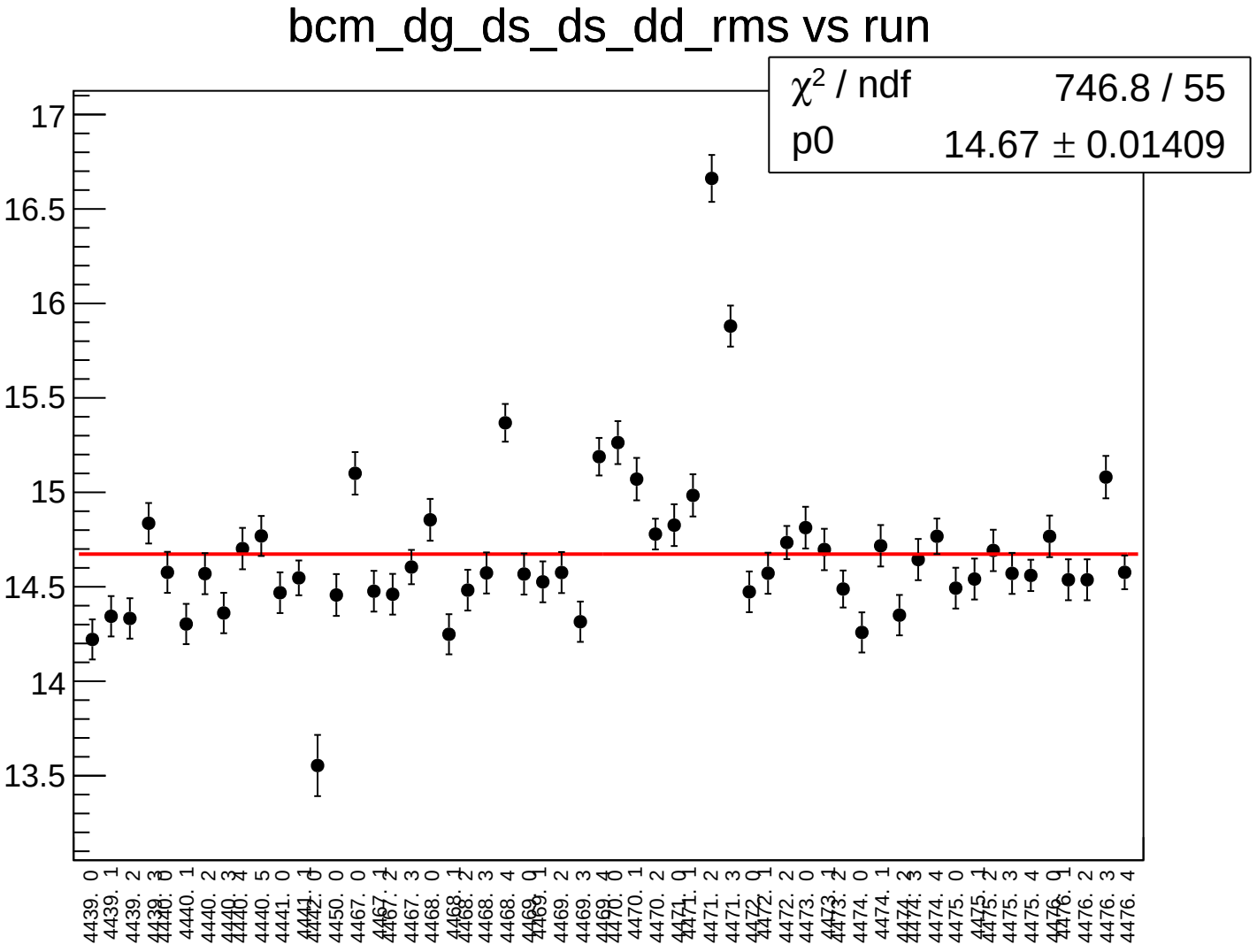

bcm_dg_us_ds_dd_mean vs run
χ^2 / ndf 69.94 / 55
p0 3.334 ± 25.86
pull
Entries 56
Mean −72.95
Std Dev 108


pull1D
Entries 56
Mean 0.0169
Std Dev 1.117


bcm_dg_us_ds_dd_rms vs run
χ² / ndf 3355 / 55
p0 19.02 ± 0.01829
28
26
24
22
20
18


bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 57.48 / 55
p0 16.29 ± 19.93
pull
Entries 56
Mean 46.73
Std Dev 52.75


pull1D
Entries 56
Mean 0.01285
Std Dev 1.013


bcm_dg_ds_ds_dd_rms vs run
χ² / ndf 746.8 / 55
p0 14.67 ± 0.01409
17
16.5
16
15.5
15
14.5
14
13.5
4439. 0
4439. 1
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4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
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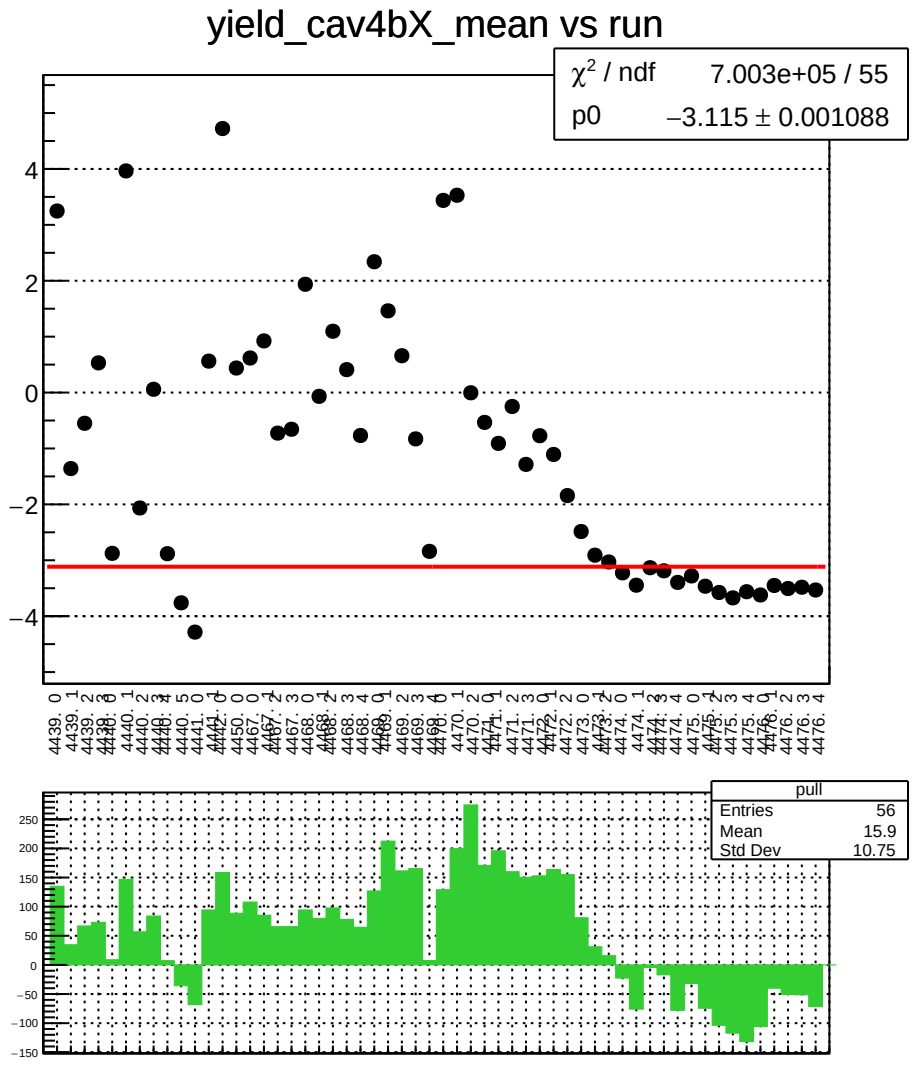
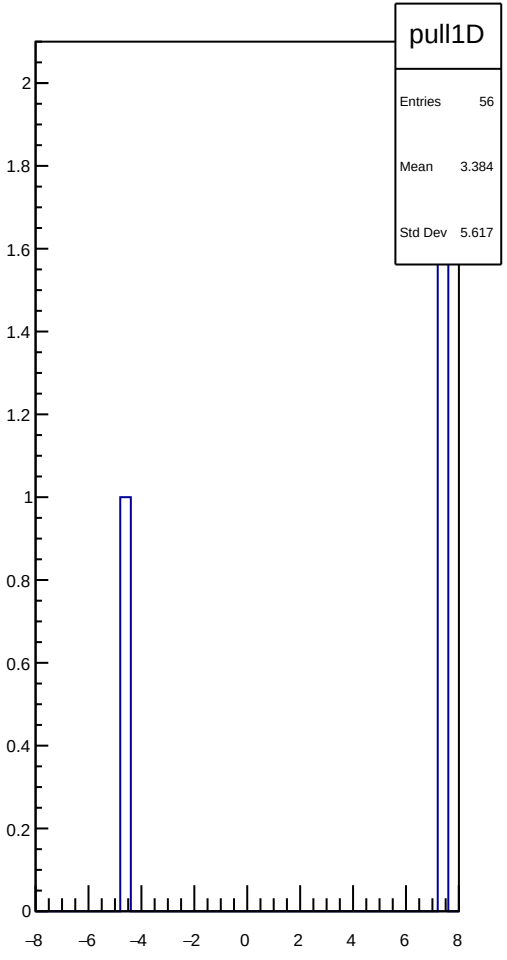
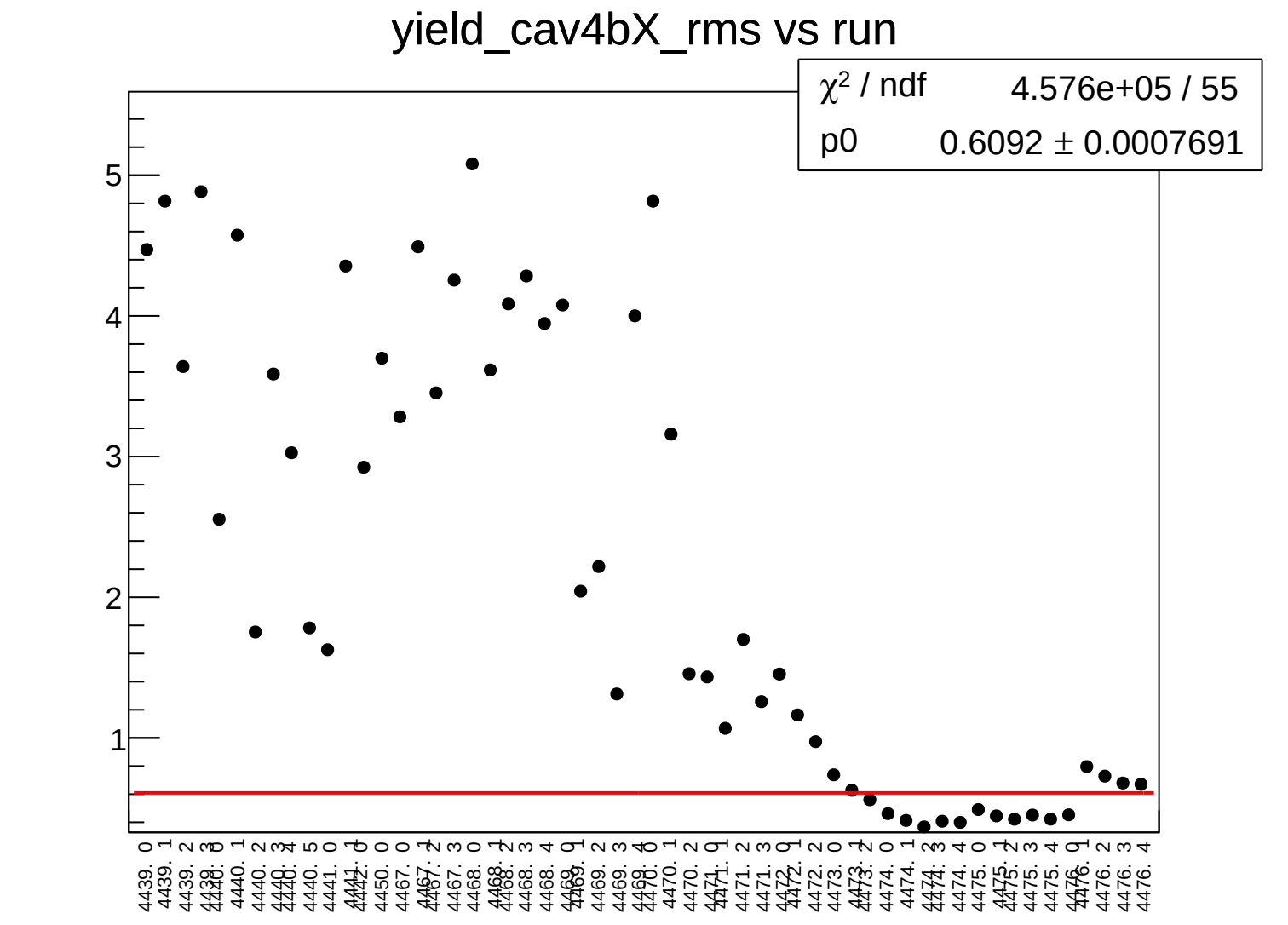
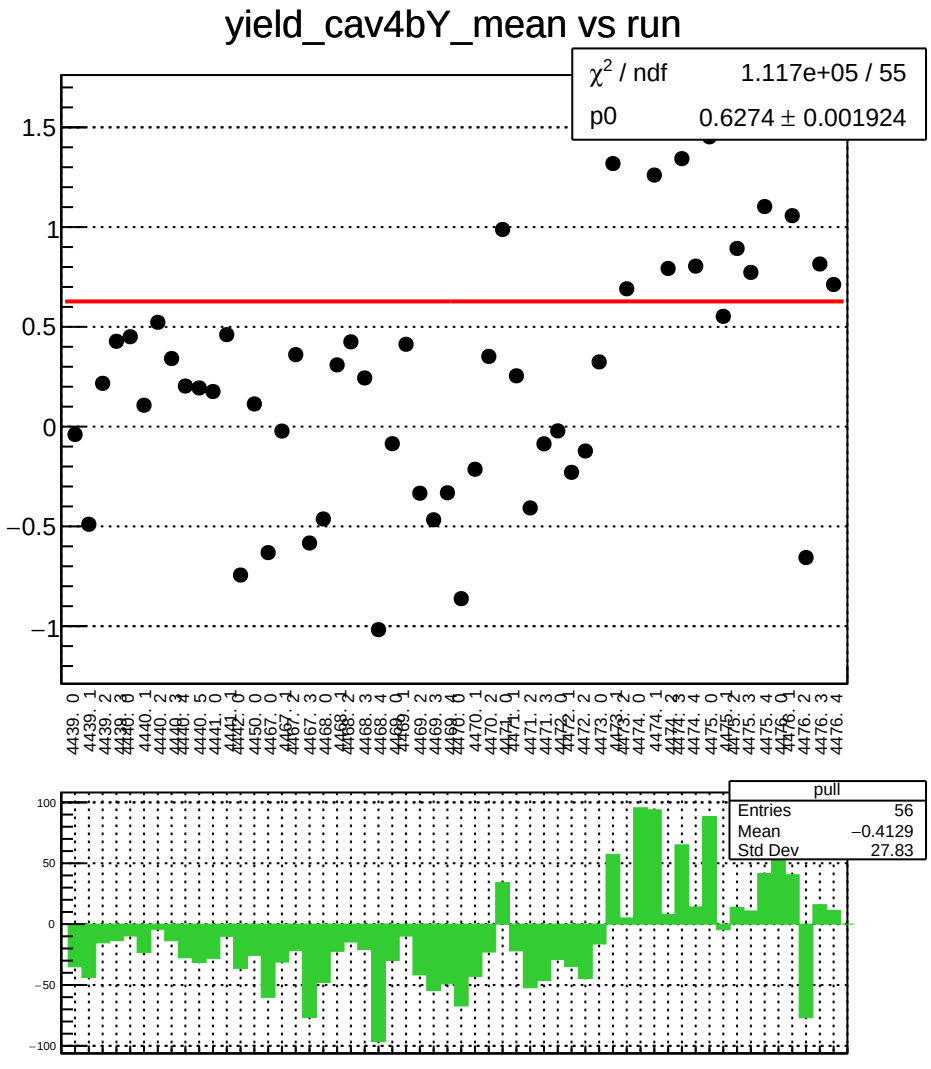
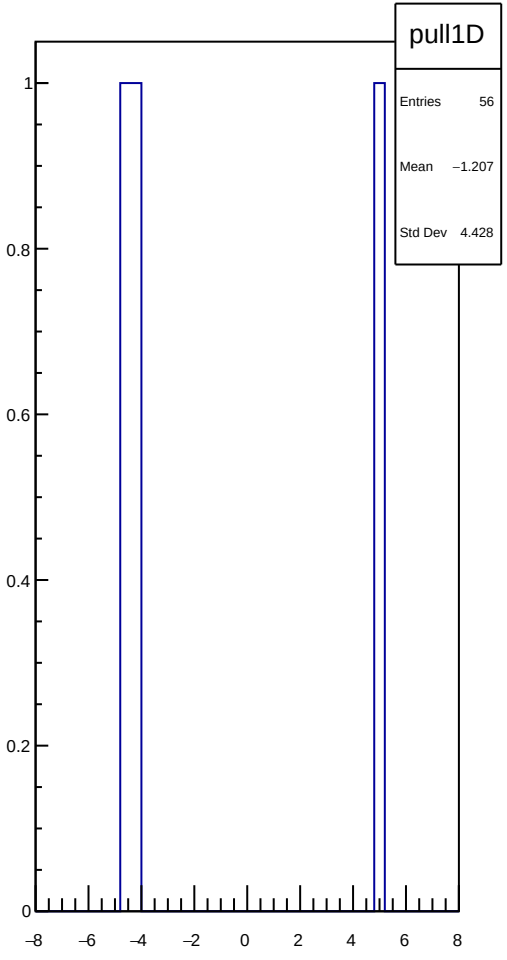
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

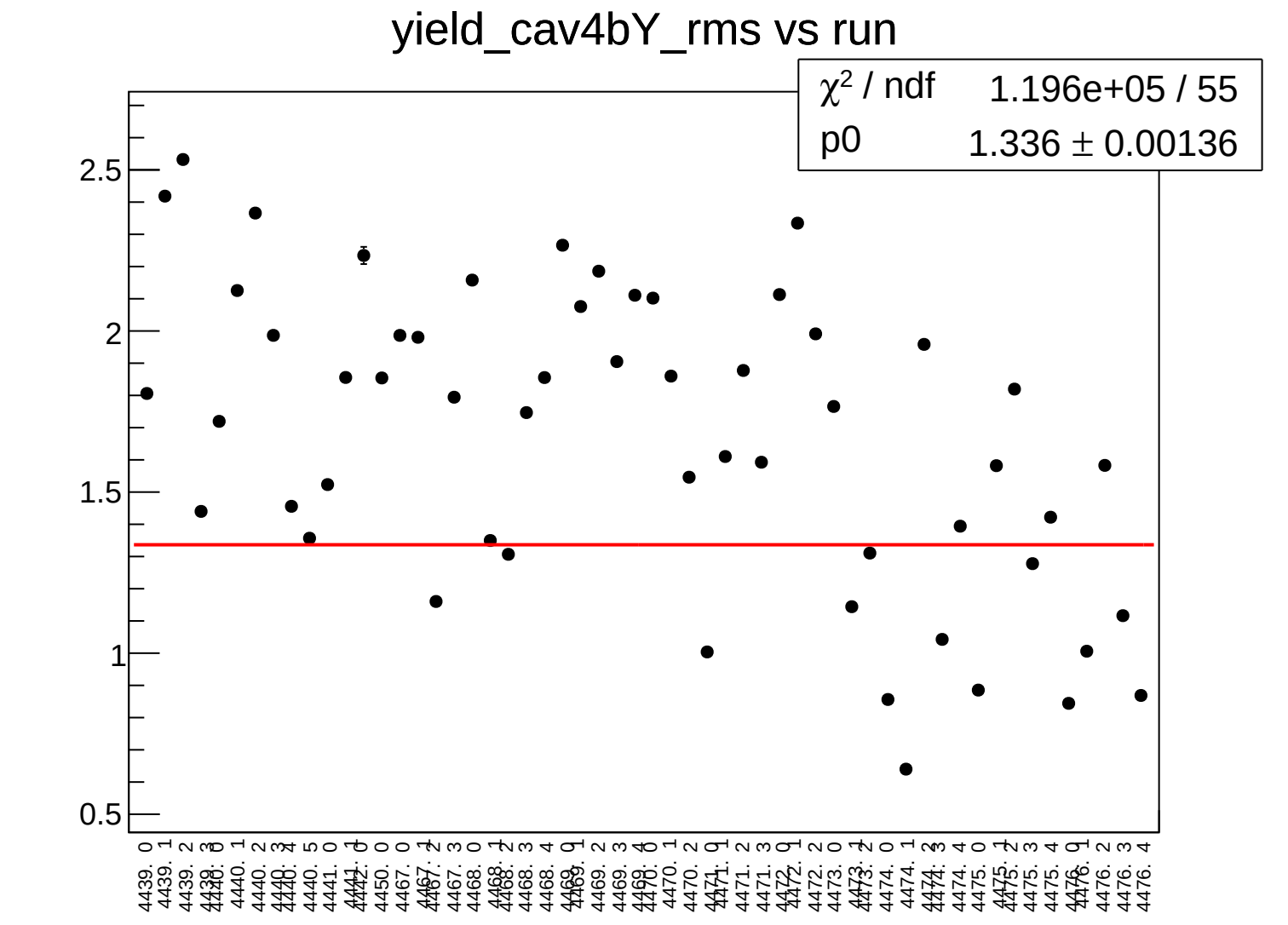

yield_cav4bX_mean vs run
χ² / ndf 7.003e+05 / 55
p0 −3.115 ± 0.001088
pull
Entries 56
Mean 15.9
Std Dev 10.75

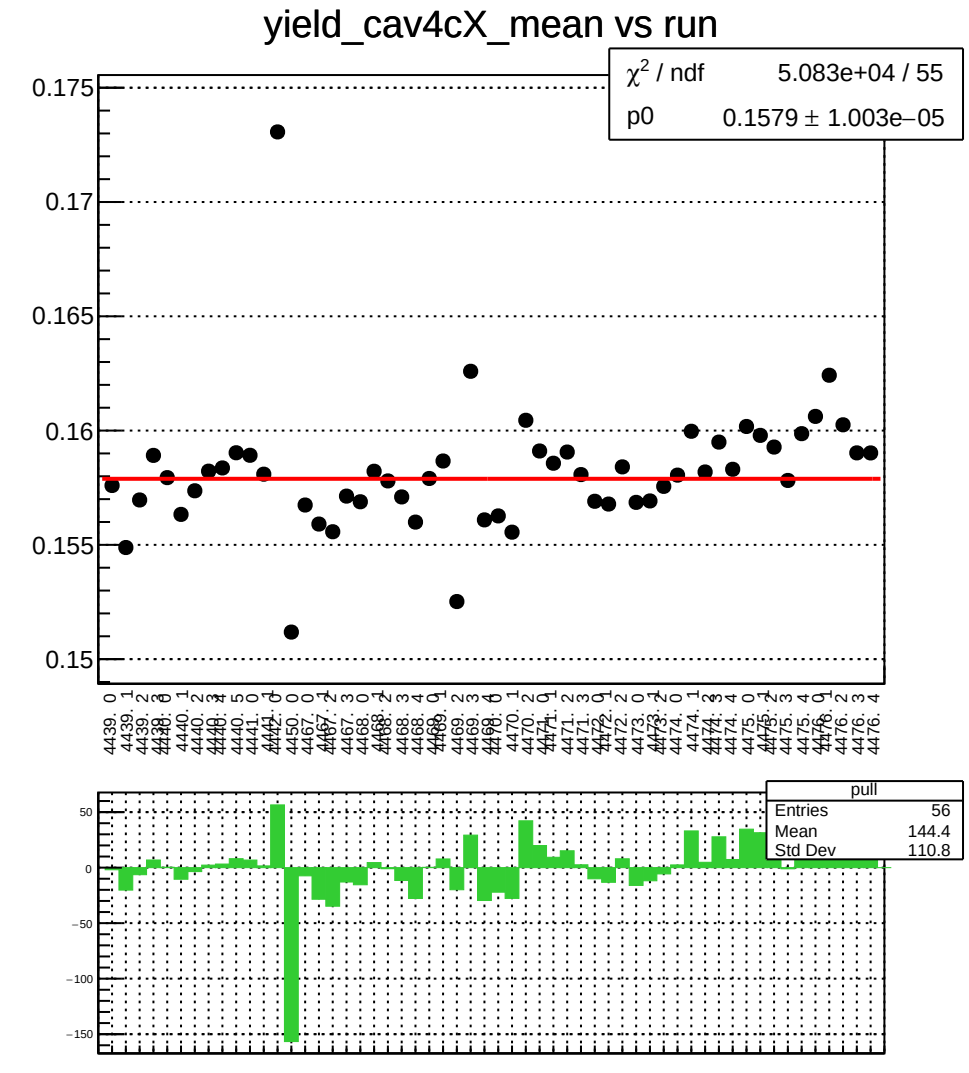

pull1D
Entries 56
Mean 3.384
Std Dev 5.617

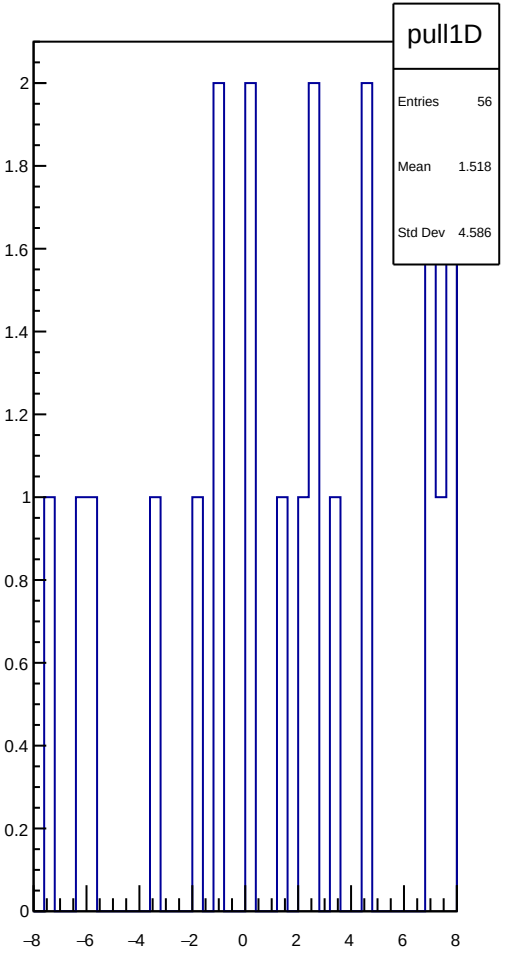

yield_cav4bX_rms vs run
χ² / ndf 4.576e+05 / 55
p0 0.6092 ± 0.0007691
5
4
3
2
1

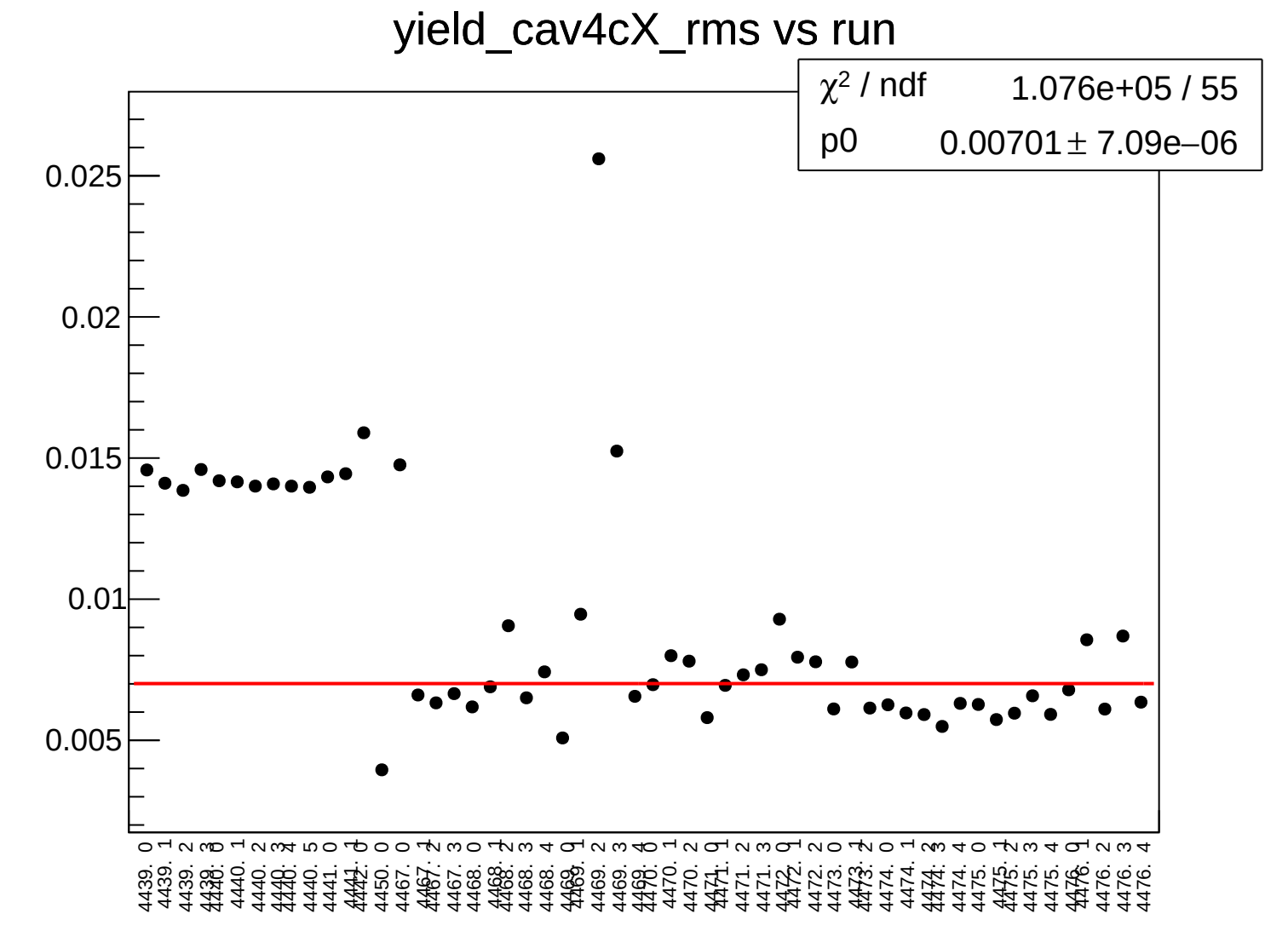

yield_cav4bY_mean vs run
χ² / ndf 1.117e+05 / 55
p0 0.6274 ± 0.001924
pull
Entries 56
Mean −0.4129
Std Dev 27.83

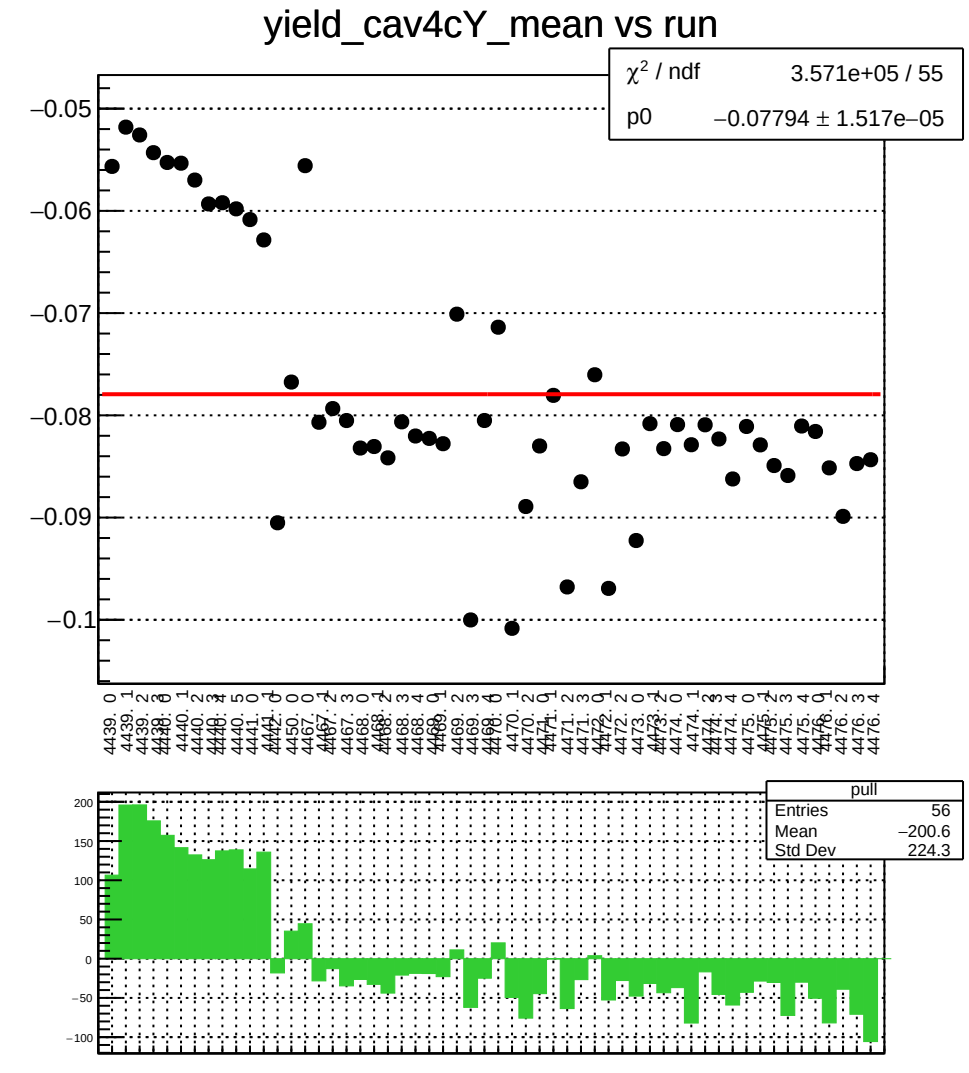

pull1D
Entries 56
Mean −1.207
Std Dev 4.428

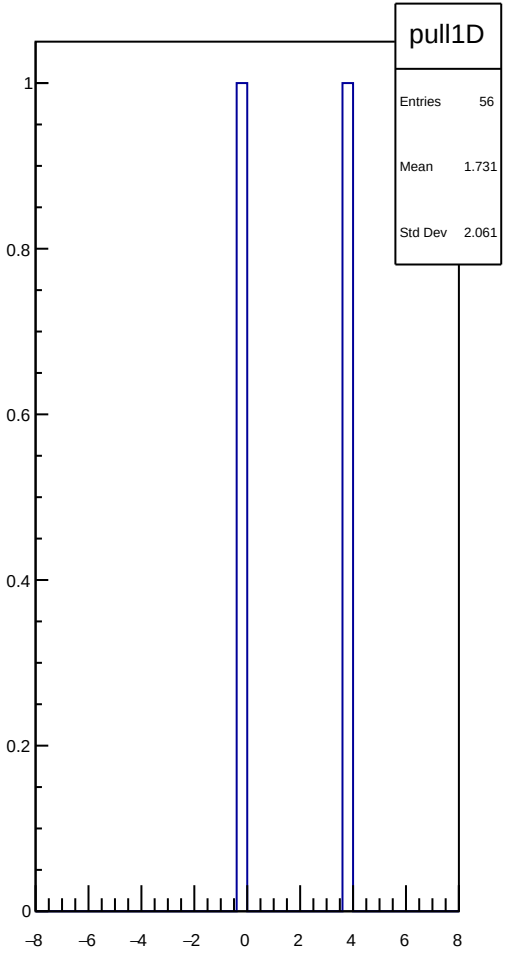

yield_cav4bY_rms vs run
χ² / ndf 1.196e+05 / 55
p0 1.336 ± 0.00136
2.5
2
1.5
1
0.5

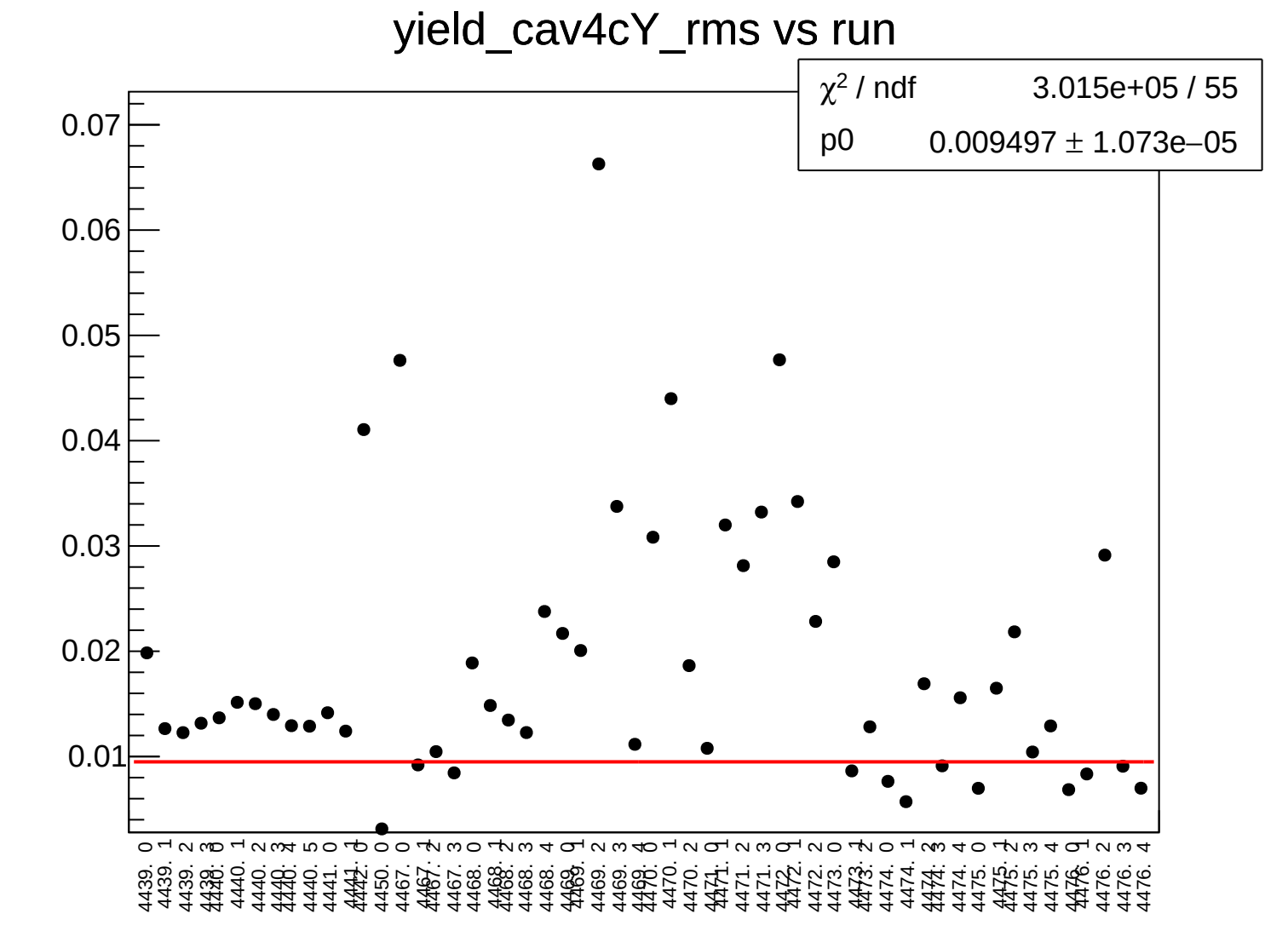

yield_cav4cX_mean vs run
χ² / ndf 5.083e+04 / 55
p0 0.1579 ± 1.003e−05
0.175
0.17
0.165
0.16
0.155
0.15
pull
Entries 56
Mean 144.4
Std Dev 110.8
50
0
−50
−100
−150

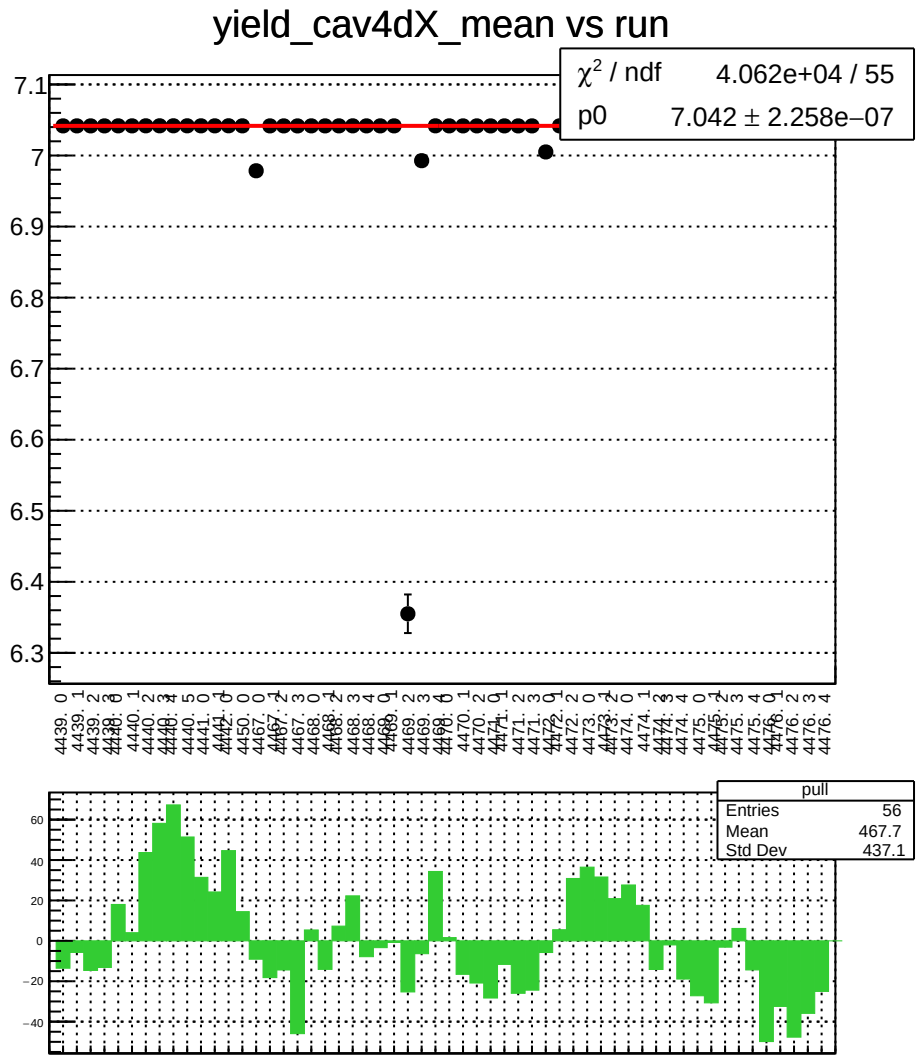

pull1D
Entries 56
Mean 1.518
Std Dev 4.586
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

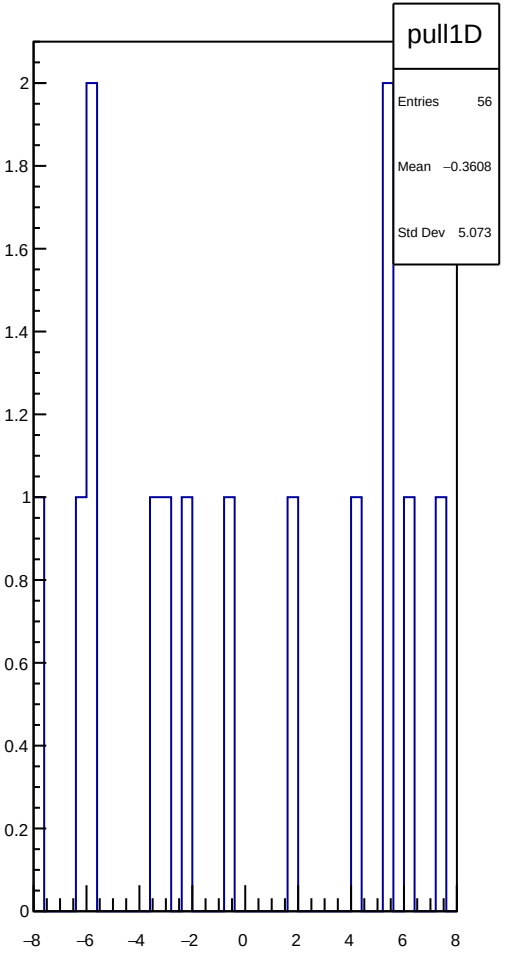

yield_cav4cX_rms vs run
χ² / ndf 1.076e+05 / 55
p0 0.00701 ± 7.09e–06
0.025
0.02
0.015
0.01
0.005

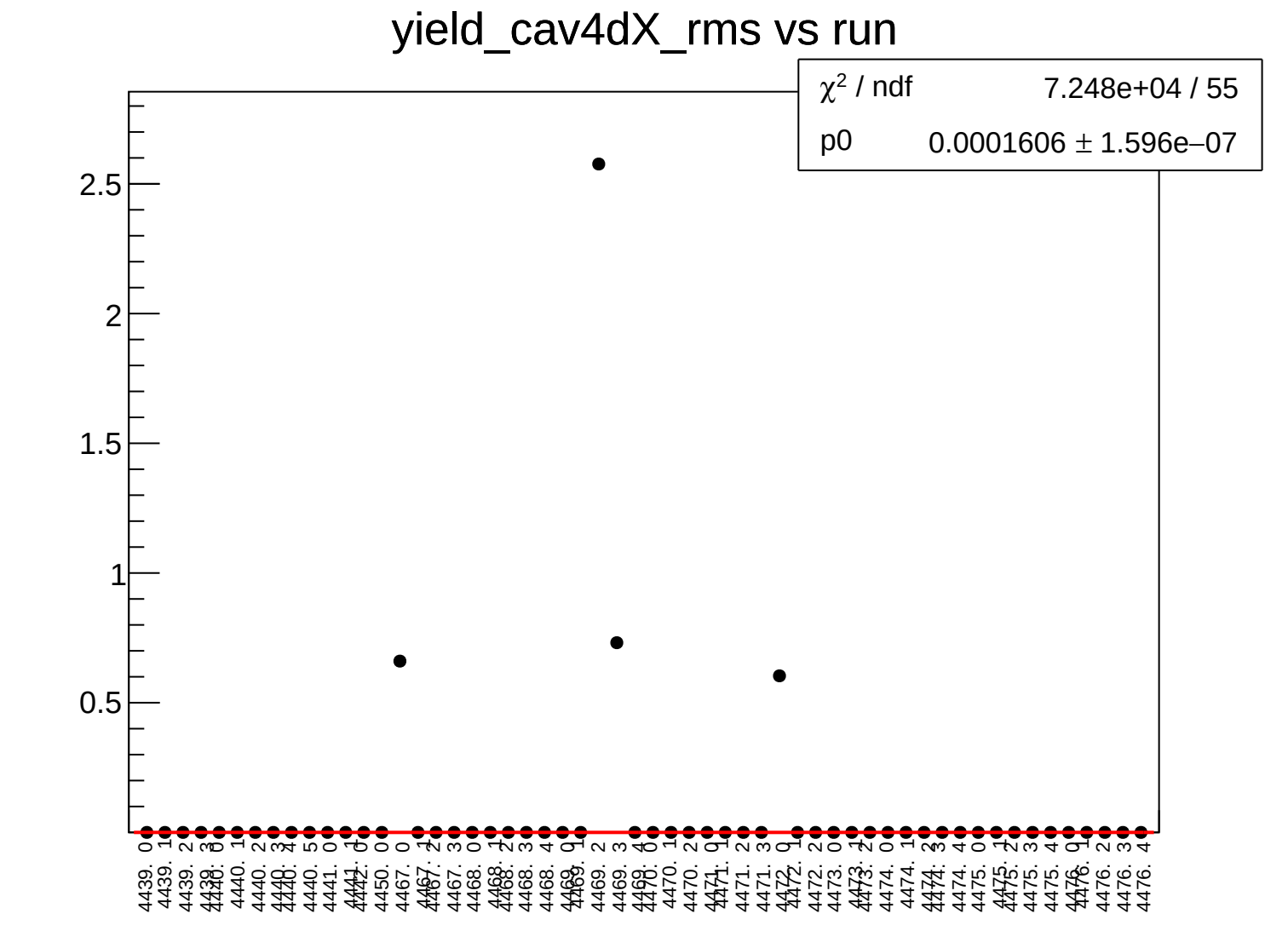

yield_cav4cY_mean vs run
χ² / ndf 3.571e+05 / 55
p0 −0.07794 ± 1.517e−05
−0.05
−0.06
−0.07
−0.08
−0.09
−0.1
pull
Entries 56
Mean −200.6
Std Dev 224.3
200
150
100
50
0
−50
−100

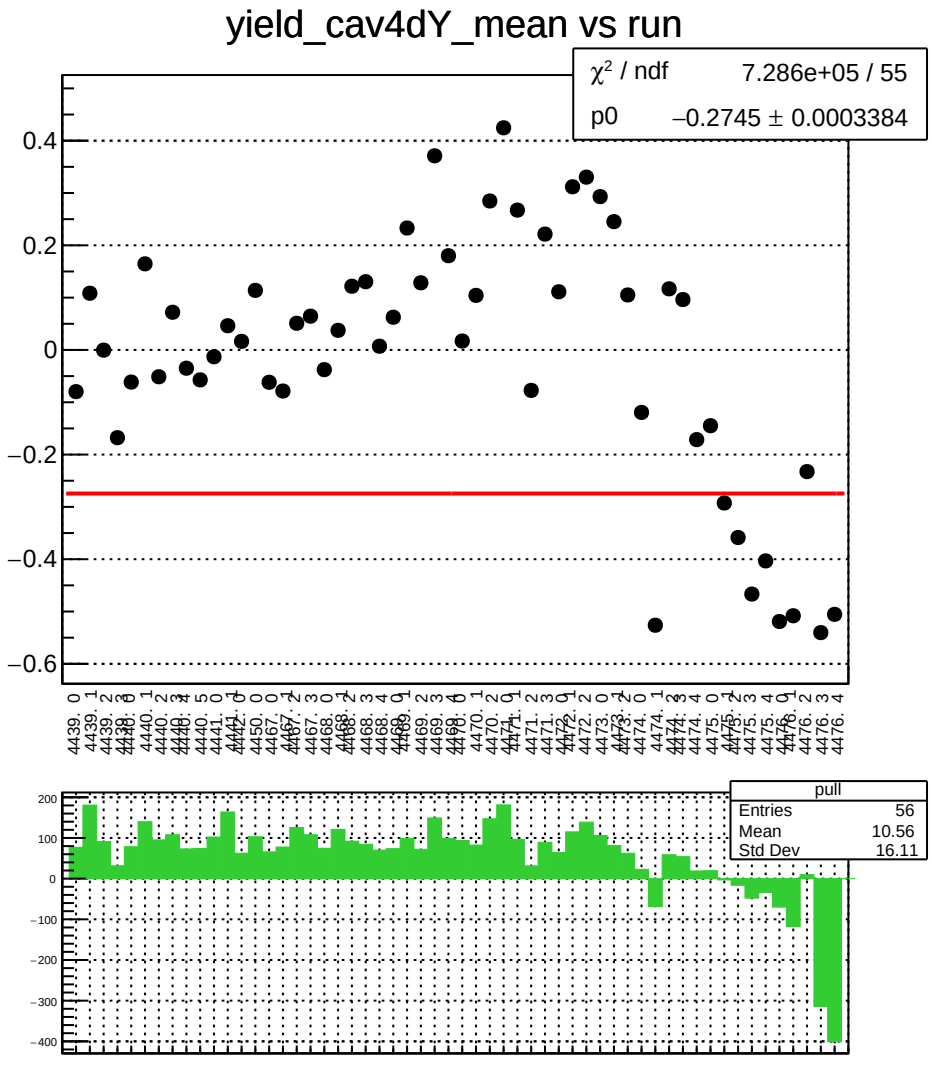

pull1D
Entries 56
Mean 1.731
Std Dev 2.061
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

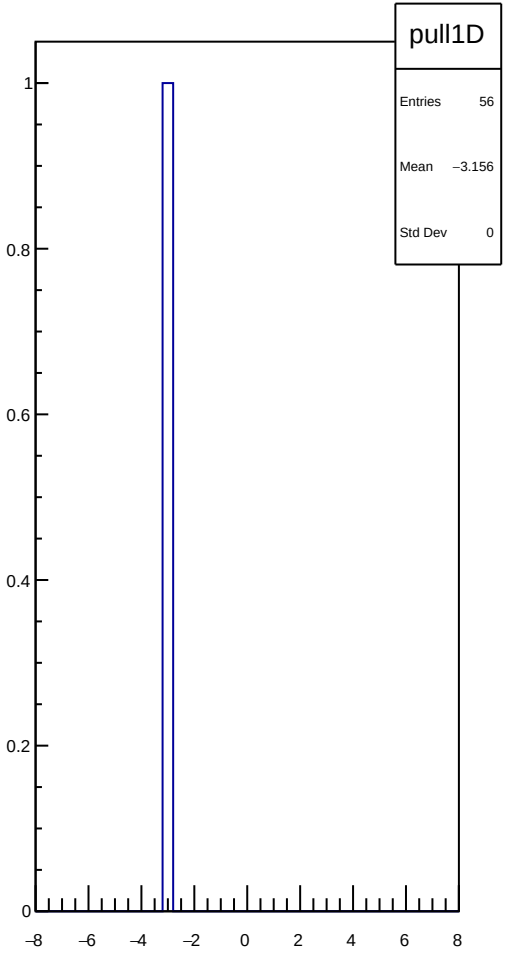

yield_cav4cY_rms vs run
χ² / ndf 3.015e+05 / 55
p0 0.009497 ± 1.073e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

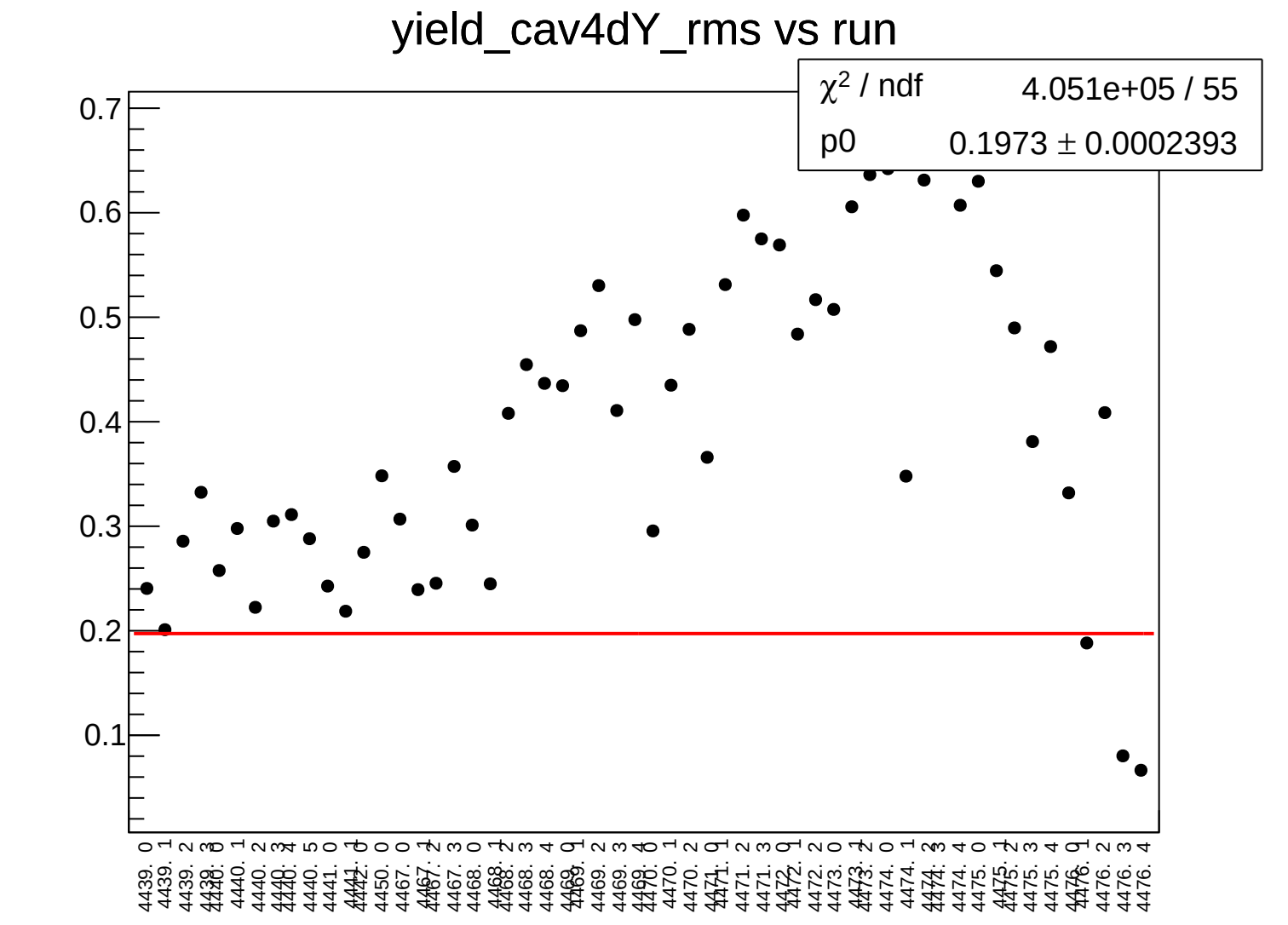

yield_cav4dX_mean vs run
χ² / ndf 4.062e+04 / 55
p0 7.042 ± 2.258e−07
pull
Entries 56
Mean 467.7
Std Dev 437.1

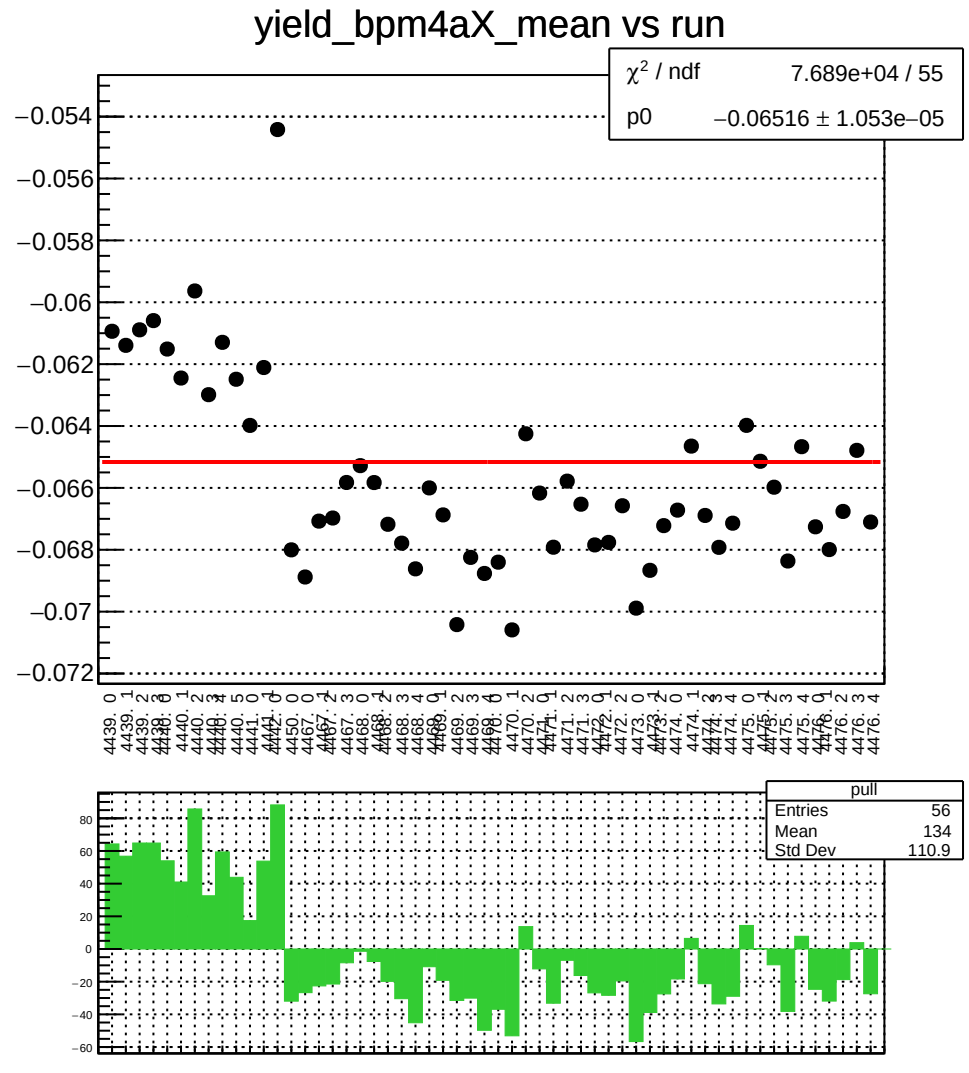

pull1D
Entries 56
Mean −0.3608
Std Dev 5.073

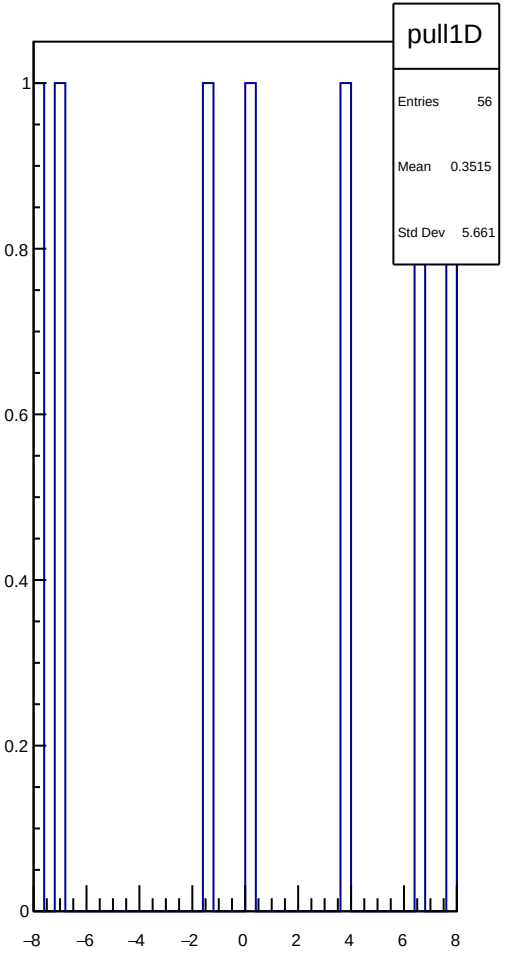

yield_cav4dX_rms vs run
χ² / ndf 7.248e+04 / 55
p0 0.0001606 ± 1.596e−07
2.5
2
1.5
1
0.5

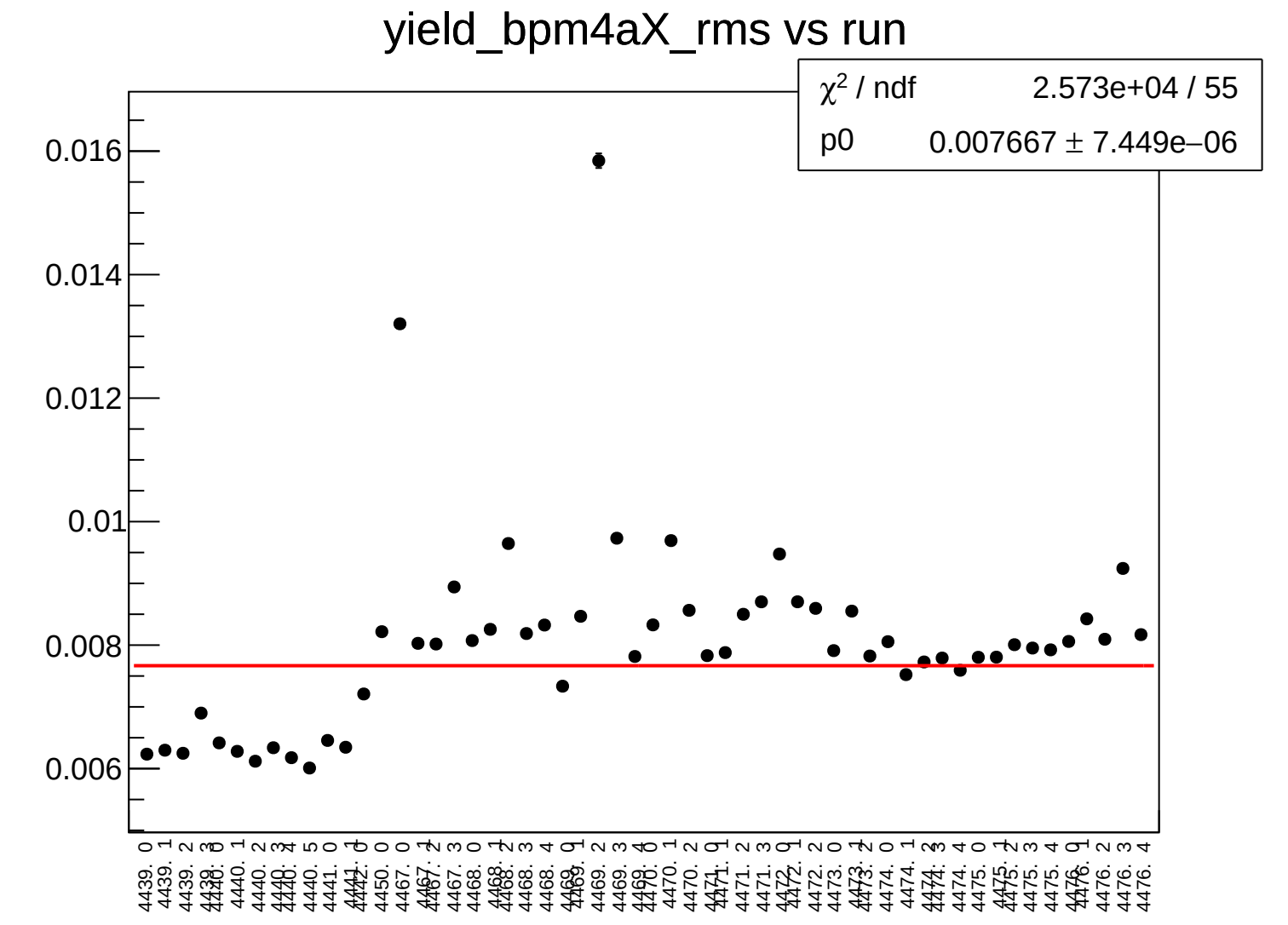

yield_cav4dY_mean vs run
χ² / ndf 7.286e+05 / 55
p0 −0.2745 ± 0.0003384
pull
Entries 56
Mean 10.56
Std Dev 16.11

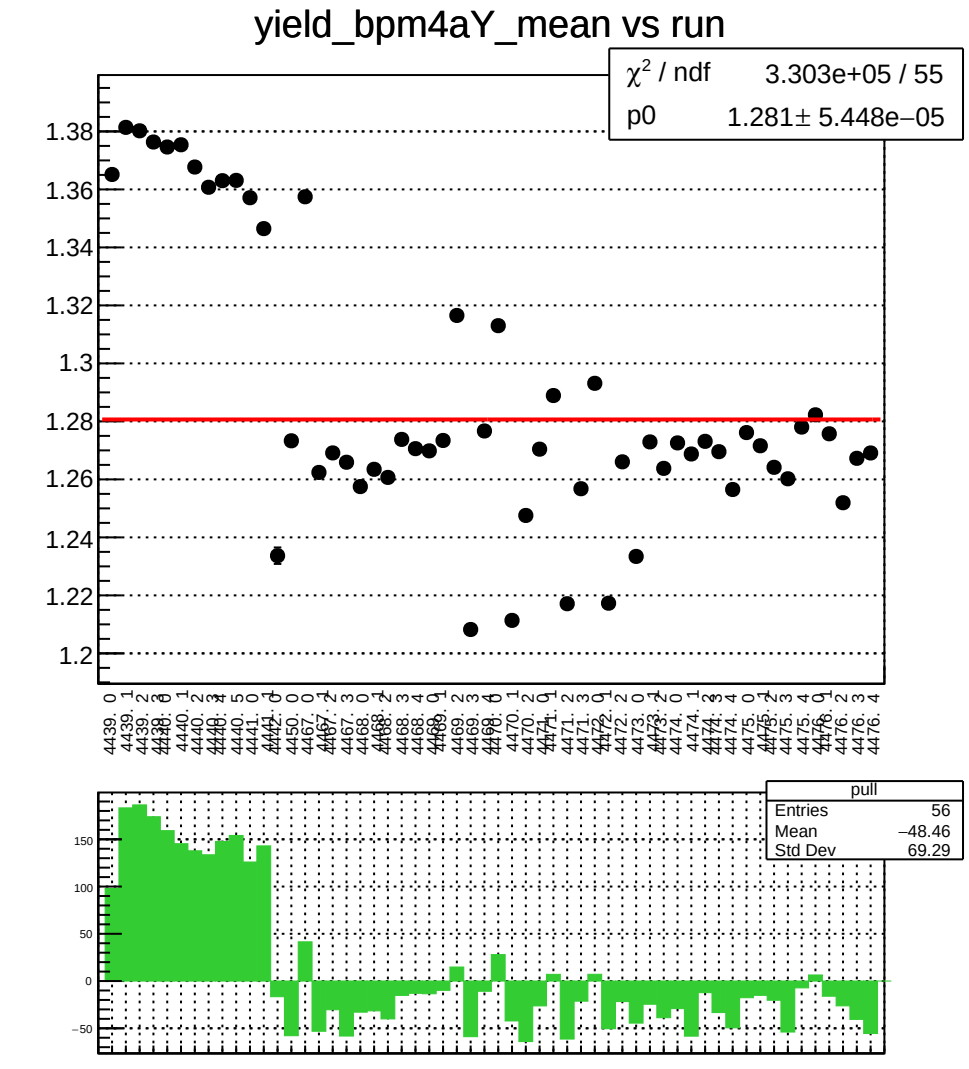

pull1D
Entries 56
Mean −3.156
Std Dev 0

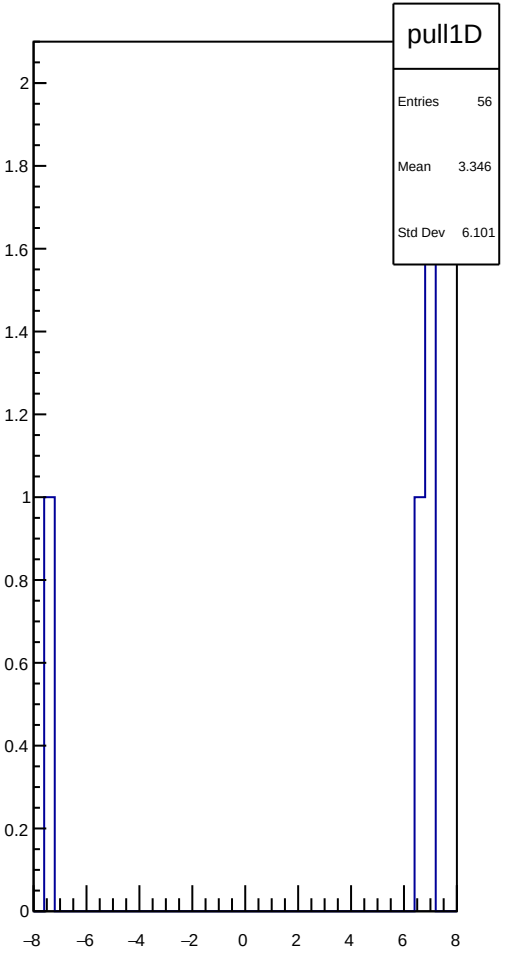

yield_cav4dY_rms vs run
χ² / ndf 4.051e+05 / 55
p0 0.1973 ± 0.0002393
0.7
0.6
0.5
0.4
0.3
0.2
0.1

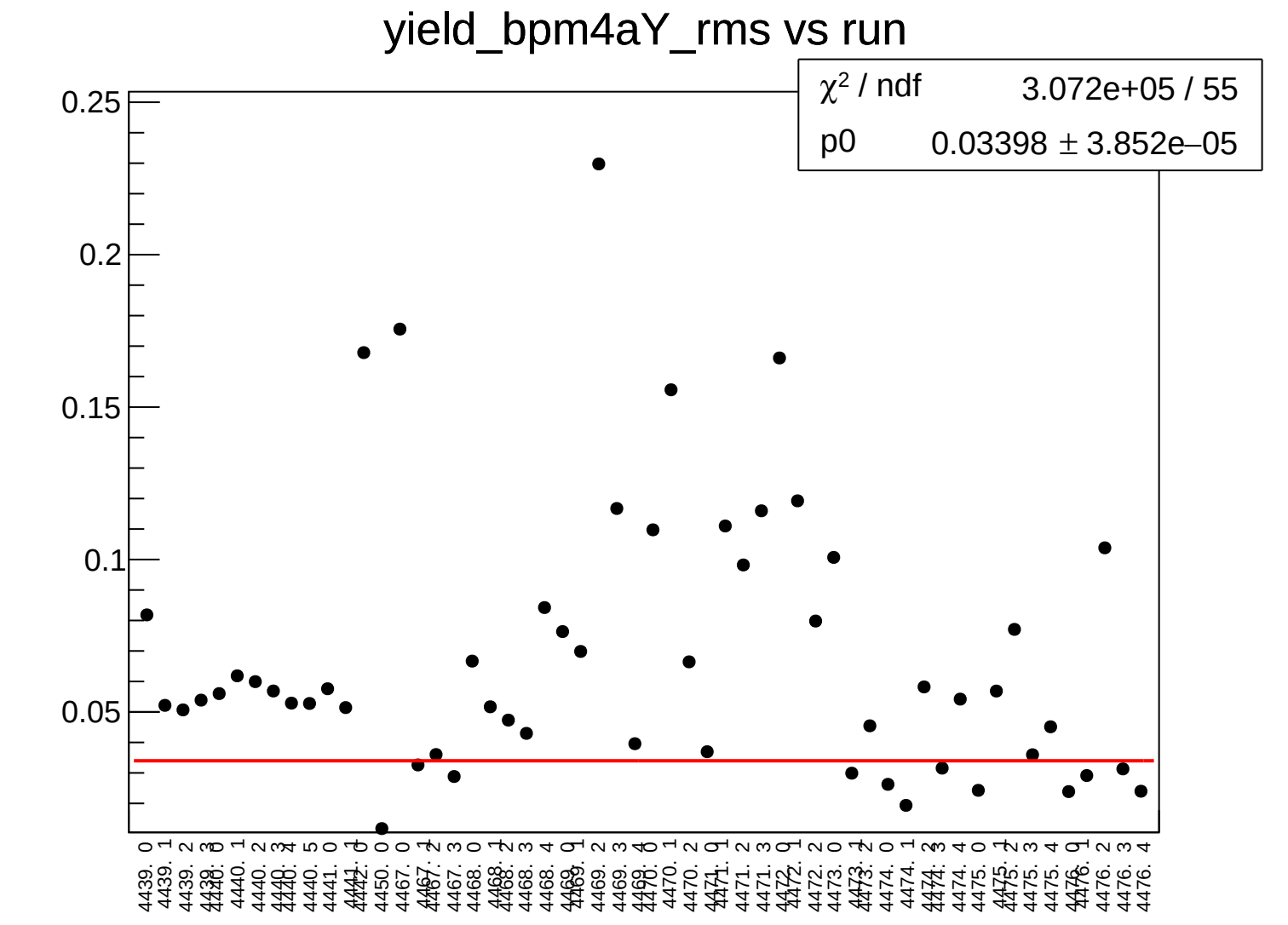

yield_bpm4aX_mean vs run
χ² / ndf 7.689e+04 / 55
p0 −0.06516 ± 1.053e−05
pull
Entries 56
Mean 134
Std Dev 110.9

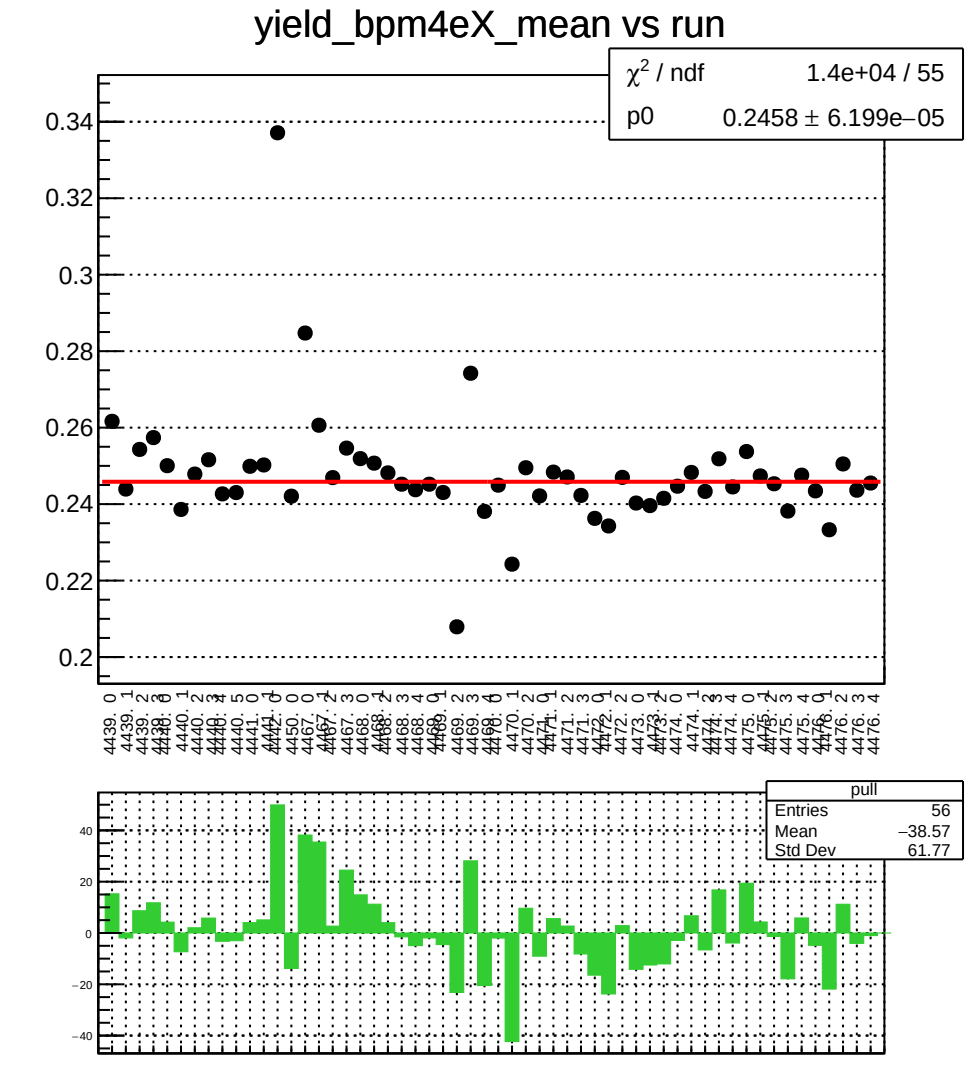

pull1D
Entries 56
Mean 0.3515
Std Dev 5.661

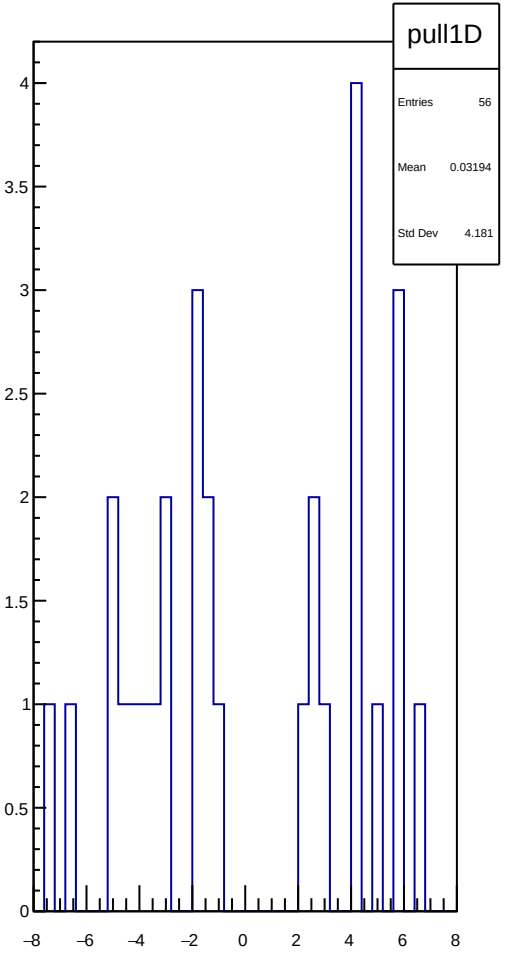

yield_bpm4aX_rms vs run
χ² / ndf 2.573e+04 / 55
p0 0.007667 ± 7.449e−06
0.016
0.014
0.012
0.01
0.008
0.006

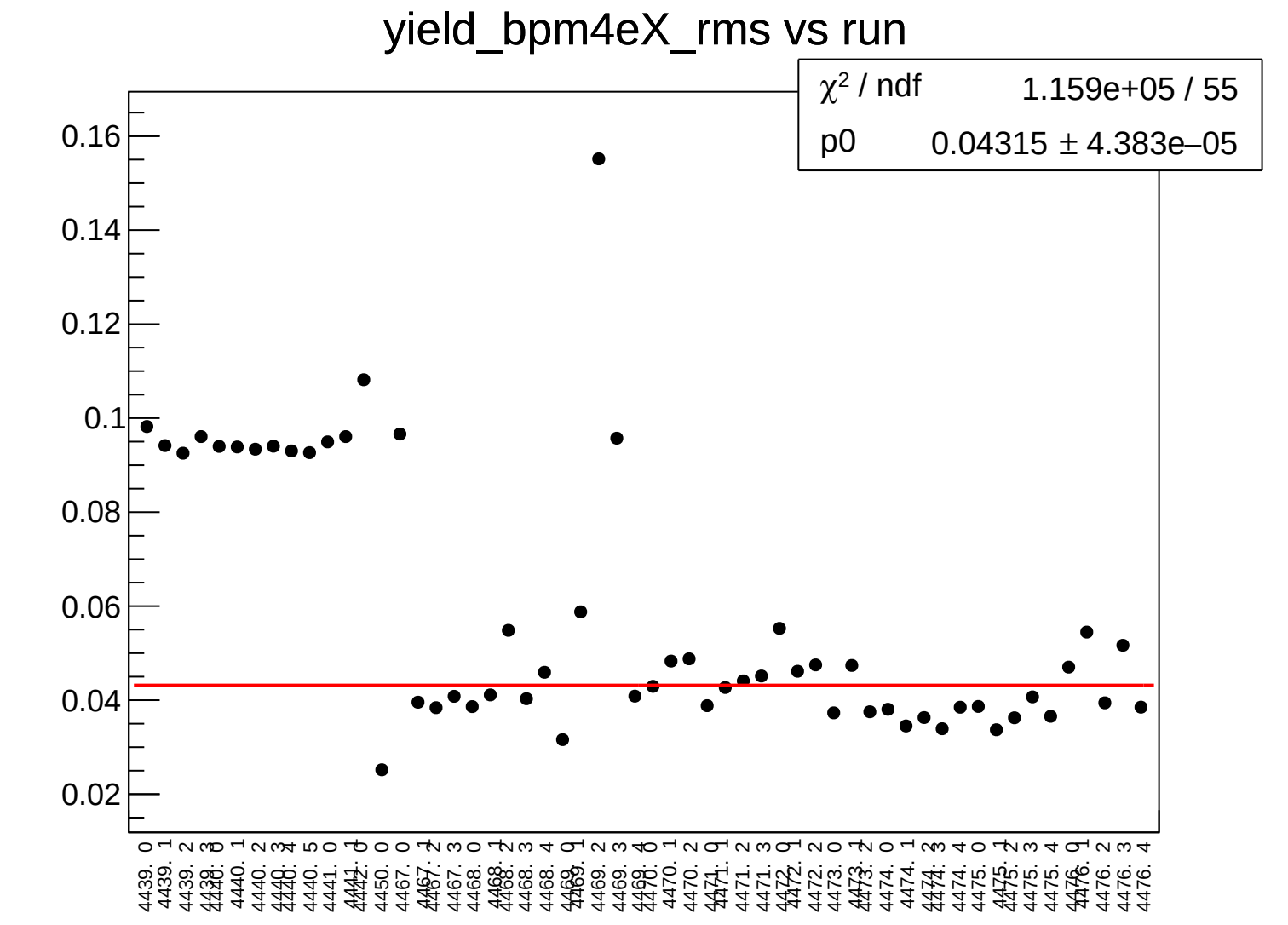

yield_bpm4aY_mean vs run
χ² / ndf 3.303e+05 / 55
p0 1.281± 5.448e−05
1.38
1.36
1.34
1.32
1.3
1.28
1.26
1.24
1.22
1.2
pull
Entries 56
Mean −48.46
Std Dev 69.29
150
100
50
0
−50

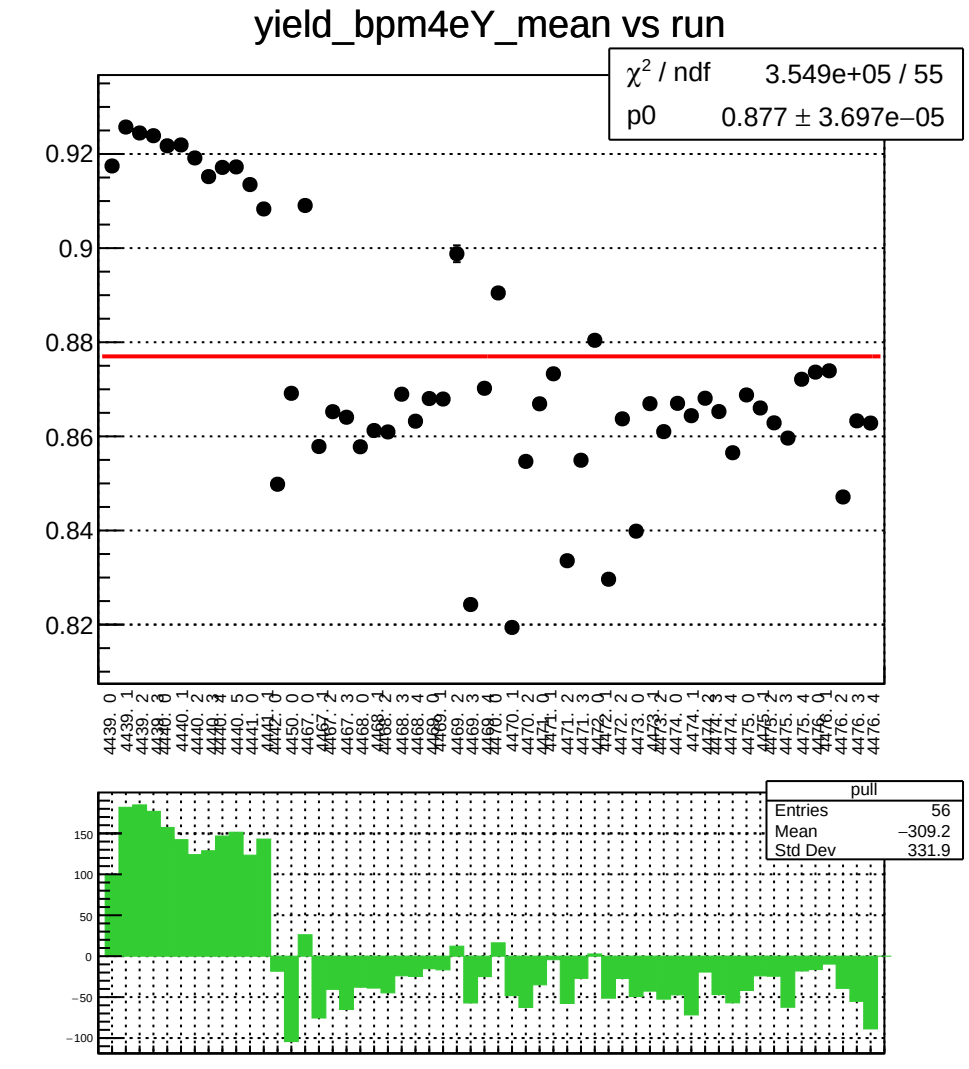

pull1D
Entries 56
Mean 3.346
Std Dev 6.101
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

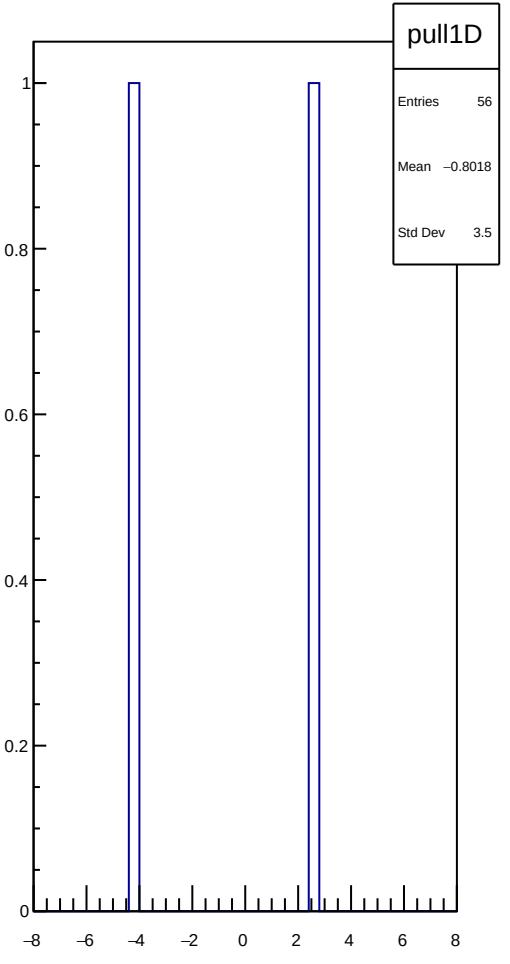

yield_bpm4aY_rms vs run
χ² / ndf 3.072e+05 / 55
p0 0.03398 ± 3.852e–05
0.25
0.2
0.15
0.1
0.05

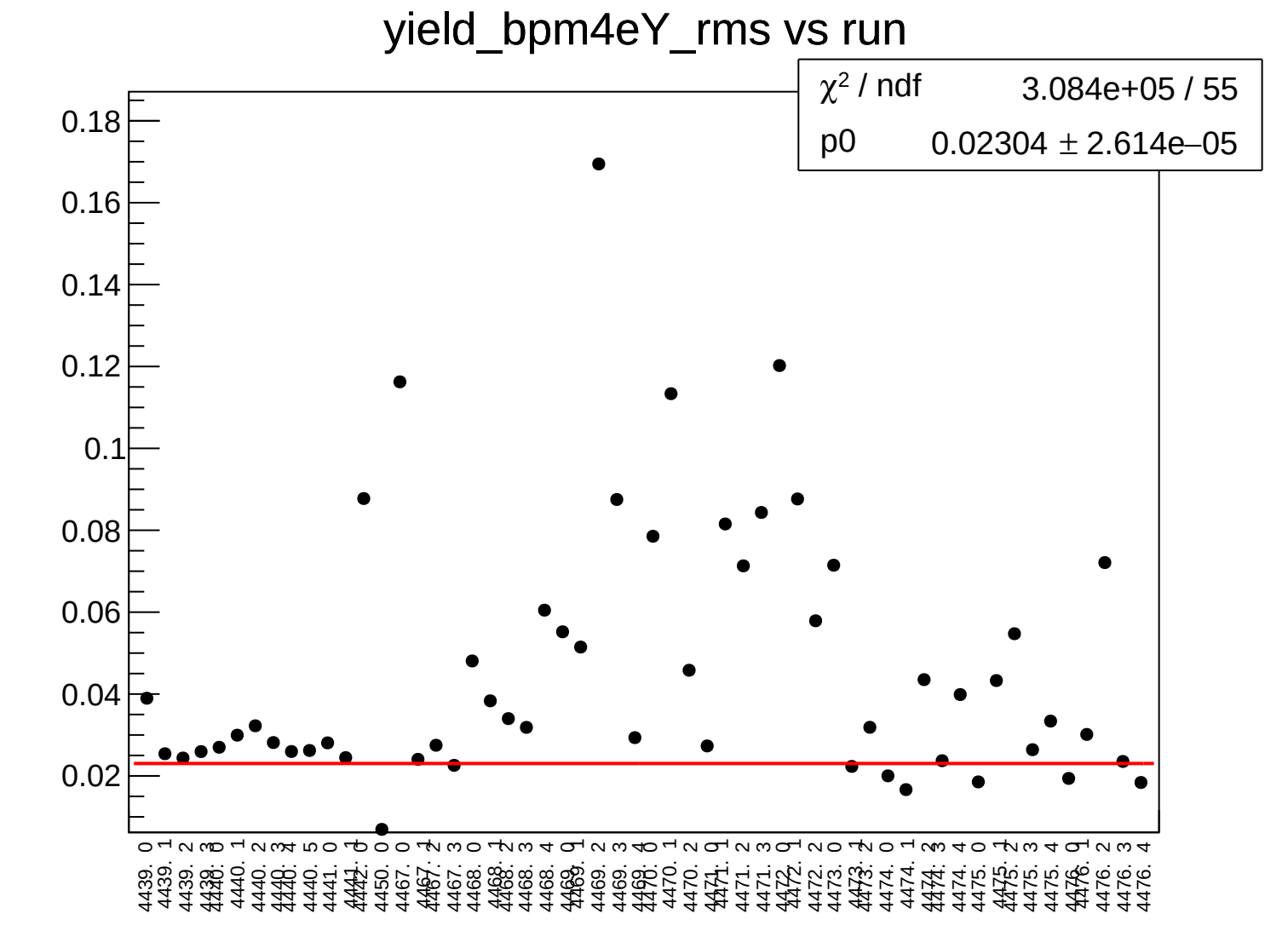

yield_bpm4eX_mean vs run
χ² / ndf 1.4e+04 / 55
p0 0.2458 ± 6.199e−05
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
pull
Entries 56
Mean −38.57
Std Dev 61.77
40
20
0
−20
−40

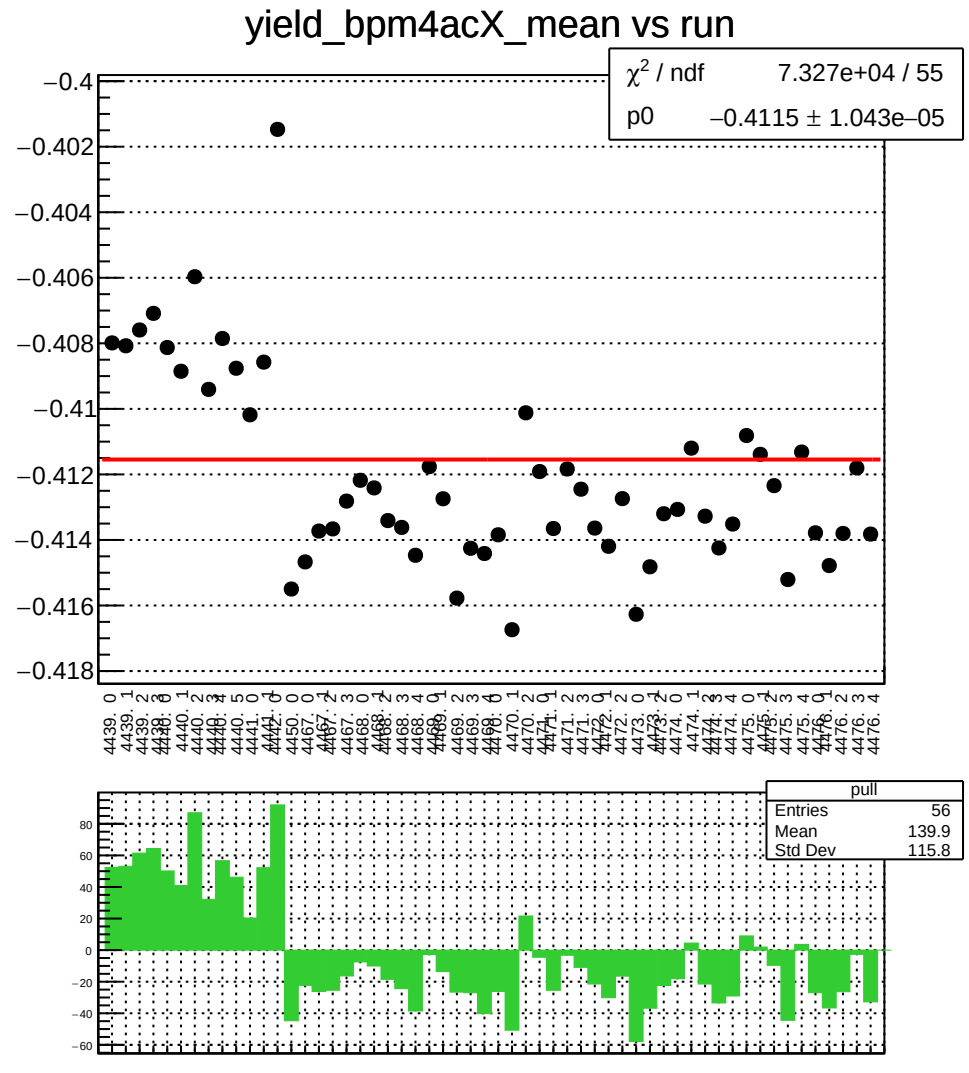

pull1D
Entries 56
Mean 0.03194
Std Dev 4.181
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

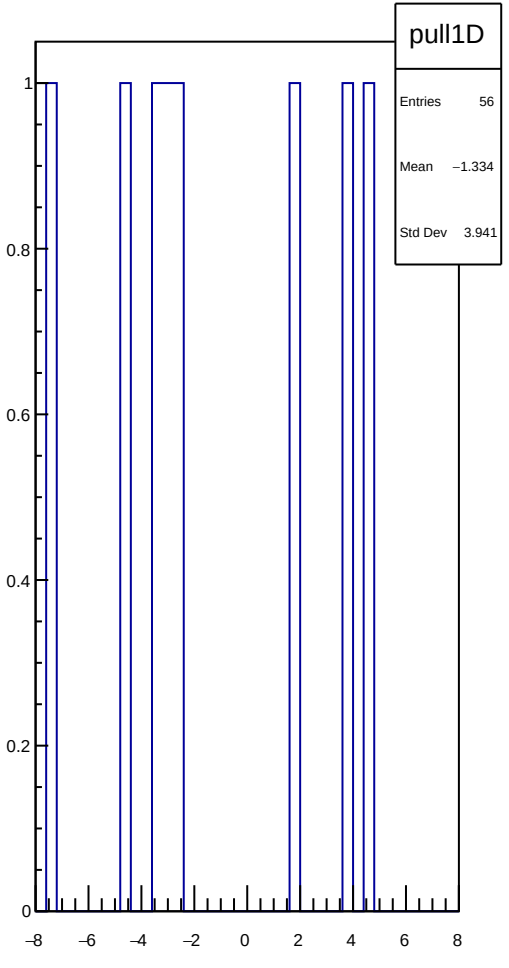

yield_bpm4eX_rms vs run
χ² / ndf 1.159e+05 / 55
p0 0.04315 ± 4.383e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

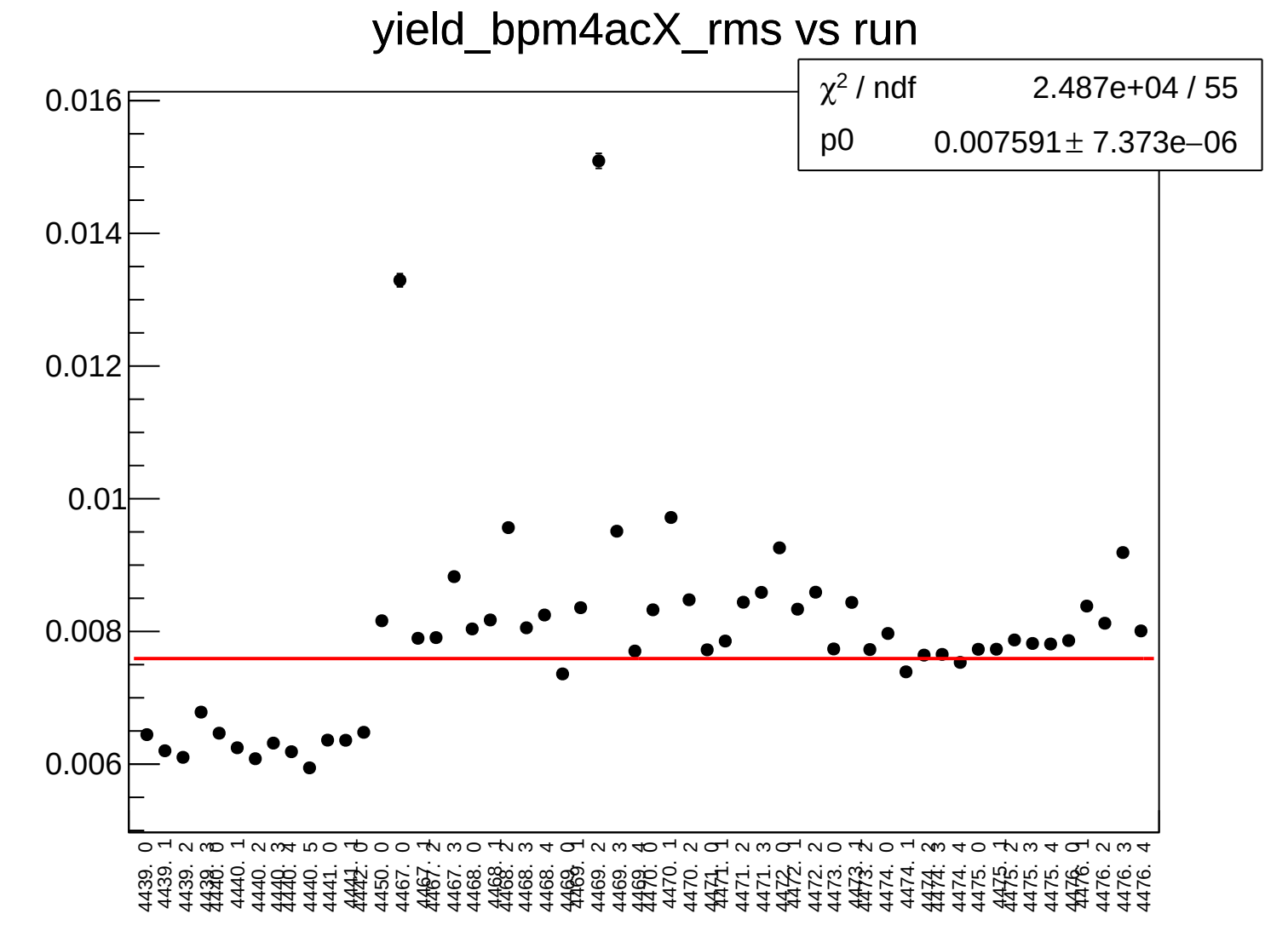

yield_bpm4eY_mean vs run
χ² / ndf 3.549e+05 / 55
p0 0.877 ± 3.697e−05
0.92
0.9
0.88
0.86
0.84
0.82
pull
Entries 56
Mean −309.2
Std Dev 331.9
150
100
50
0
−50
−100

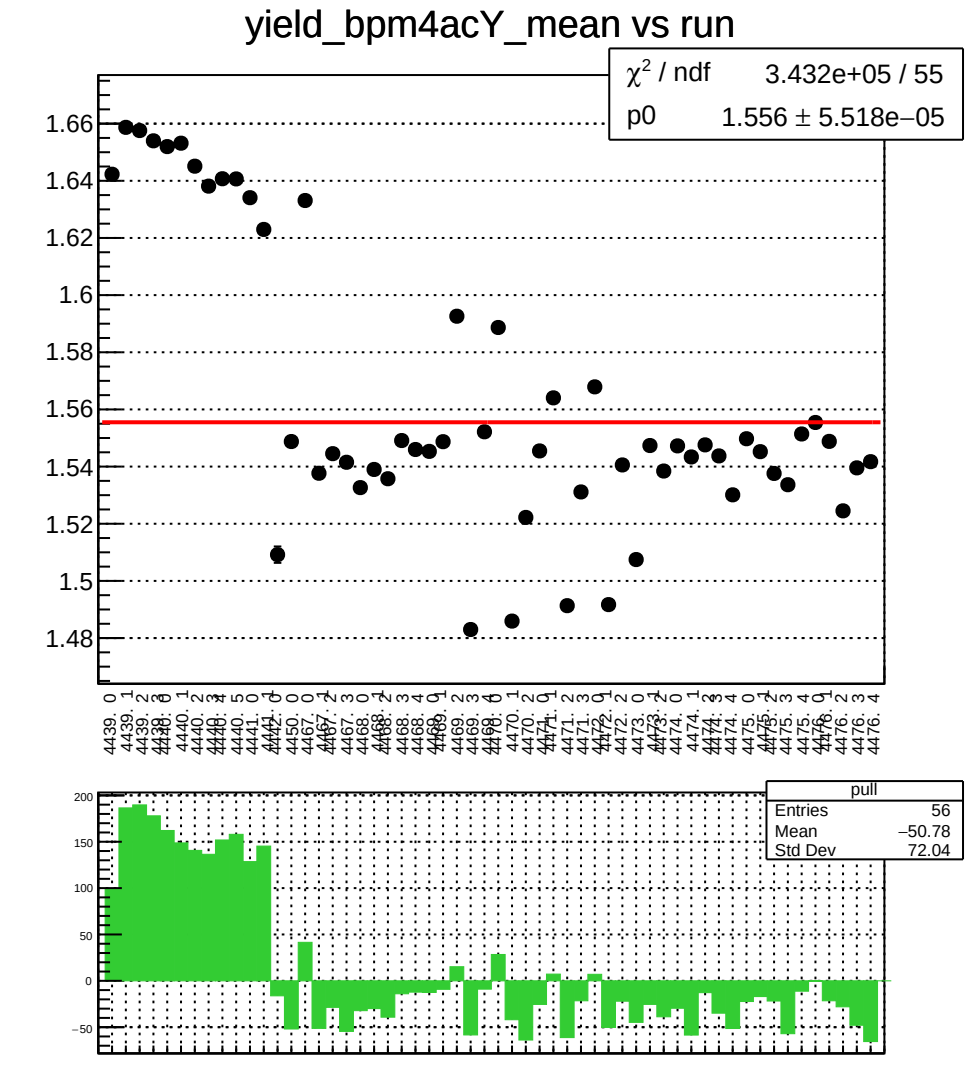

pull1D
Entries 56
Mean −0.8018
Std Dev 3.5
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

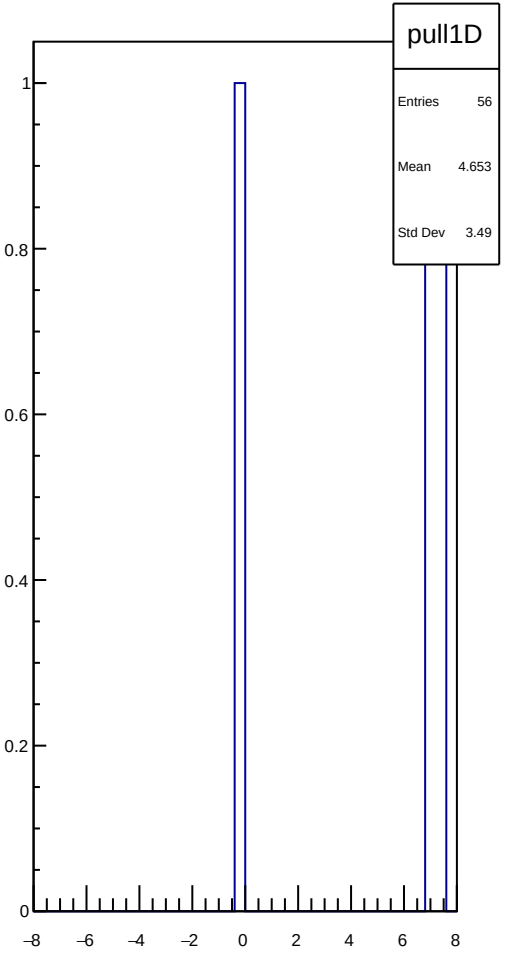

yield_bpm4eY_rms vs run
χ² / ndf 3.084e+05 / 55
p0 0.02304 ± 2.614e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

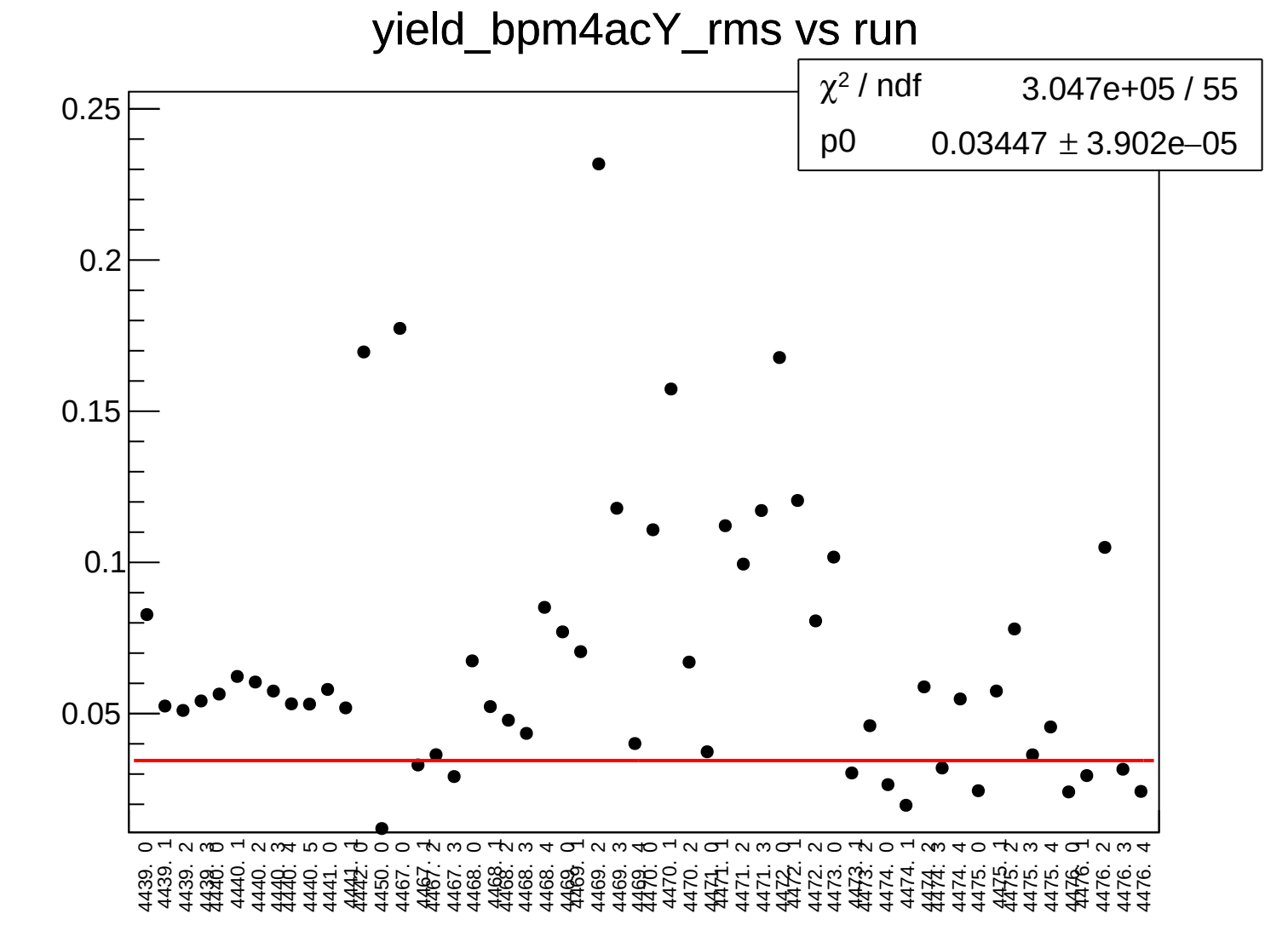

yield_bpm4acX_mean vs run
χ² / ndf 7.327e+04 / 55
p0 −0.4115 ± 1.043e−05
pull
Entries 56
Mean 139.9
Std Dev 115.8

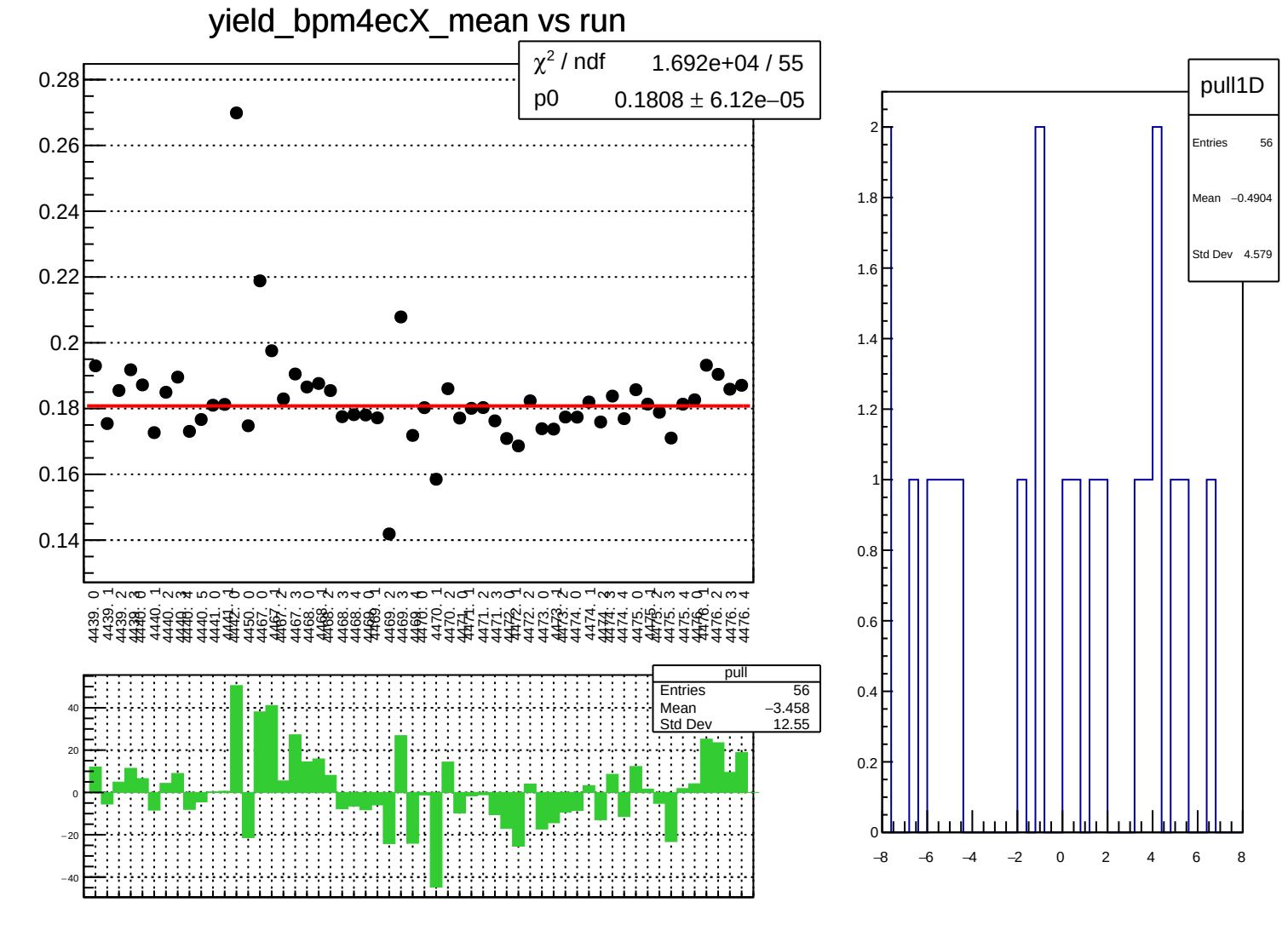

pull1D
Entries 56
Mean −1.334
Std Dev 3.941

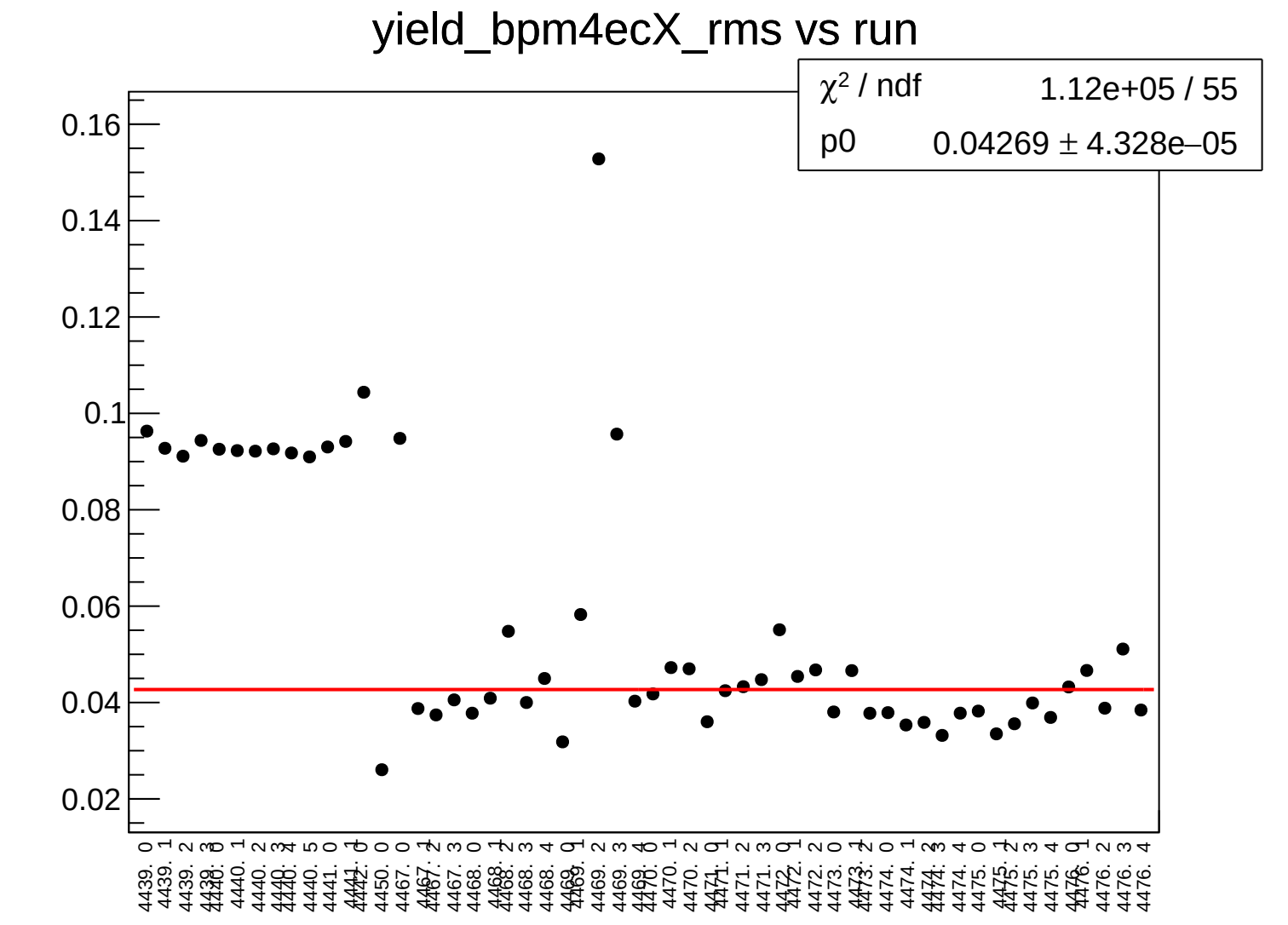

yield_bpm4acX_rms vs run
χ² / ndf 2.487e+04 / 55
p0 0.007591 ± 7.373e−06
0.016
0.014
0.012
0.01
0.008
0.006

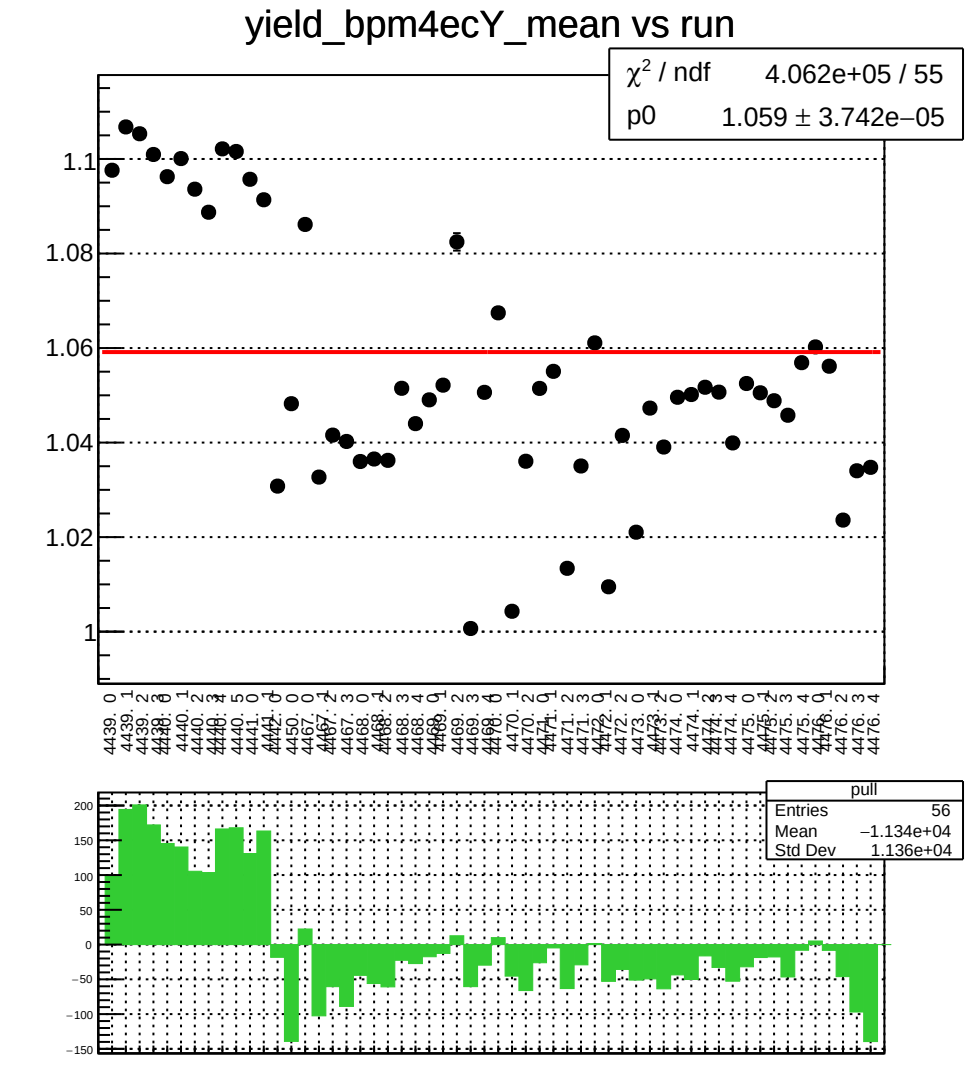

yield_bpm4acY_mean vs run
χ² / ndf 3.432e+05 / 55
p0 1.556 ± 5.518e−05
pull
Entries 56
Mean −50.78
Std Dev 72.04

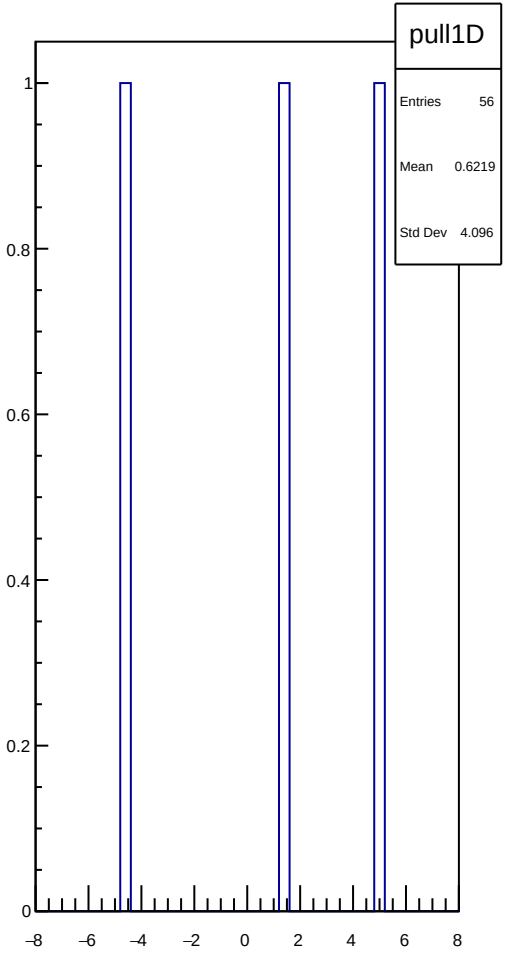

pull1D
Entries 56
Mean 4.653
Std Dev 3.49

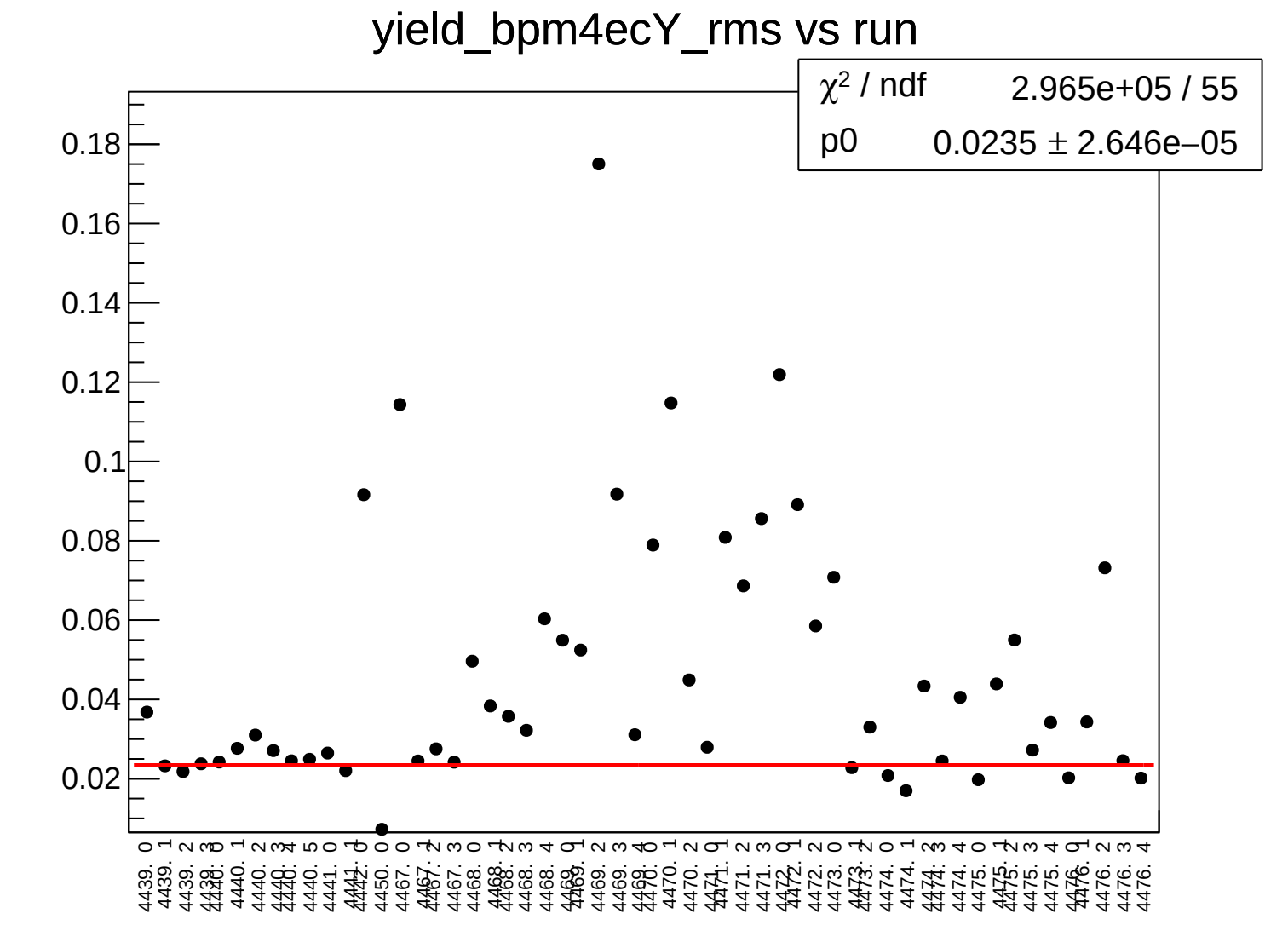

yield_bpm4acY_rms vs run
χ² / ndf 3.047e+05 / 55
p0 0.03447 ± 3.902e−05
0.25
0.2
0.15
0.1
0.05

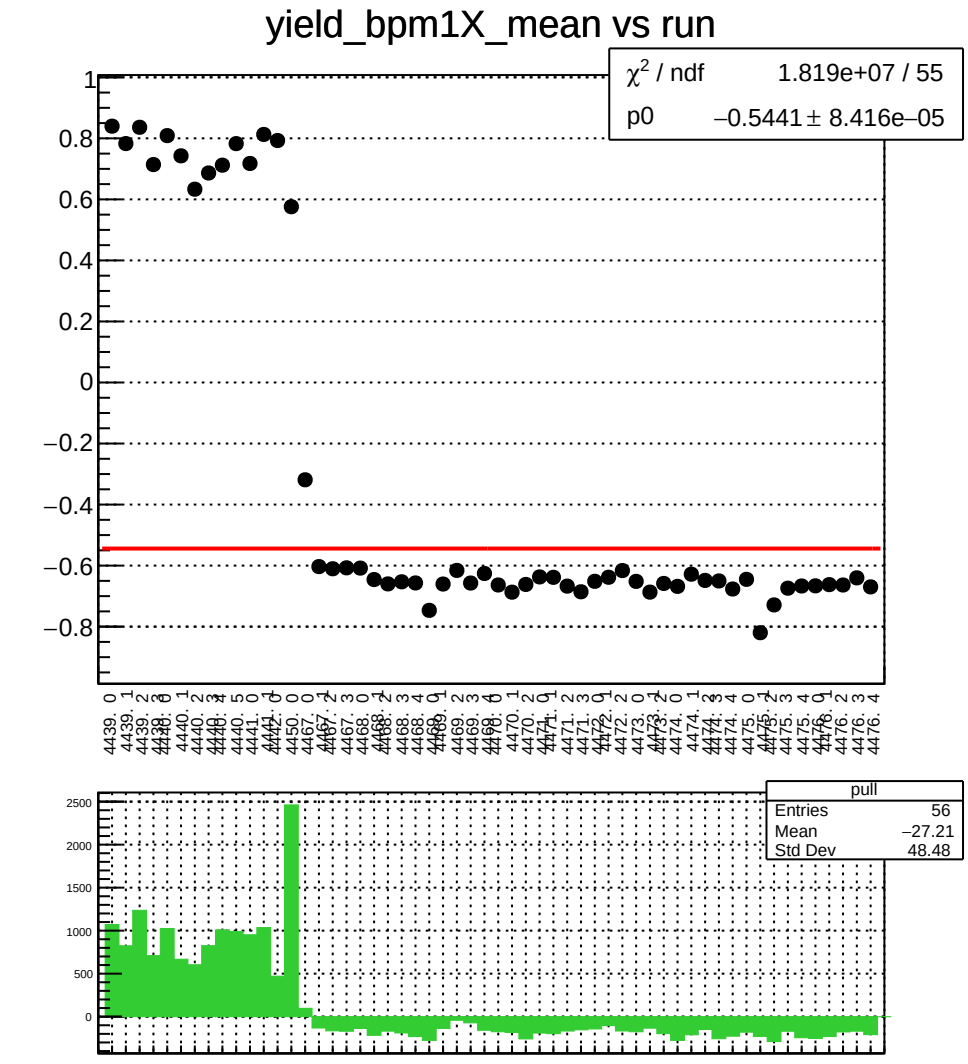

yield_bpm4ecX_mean vs run
χ² / ndf 1.692e+04 / 55
p0 0.1808 ± 6.12e−05
pull
Entries 56
Mean −3.458
Std Dev 12.55
pull1D
Entries 56
Mean −0.4904
Std Dev 4.579

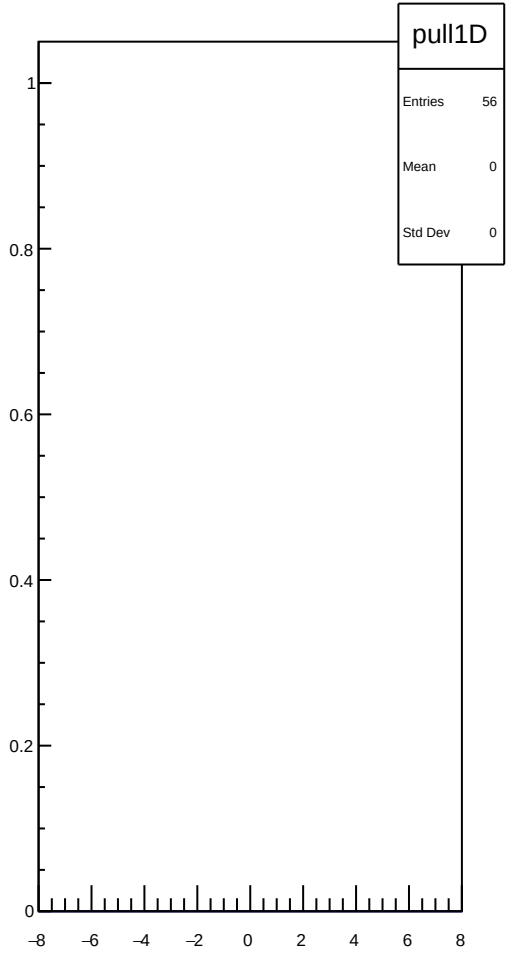

yield_bpm4ecX_rms vs run
χ² / ndf 1.12e+05 / 55
p0 0.04269 ± 4.328e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

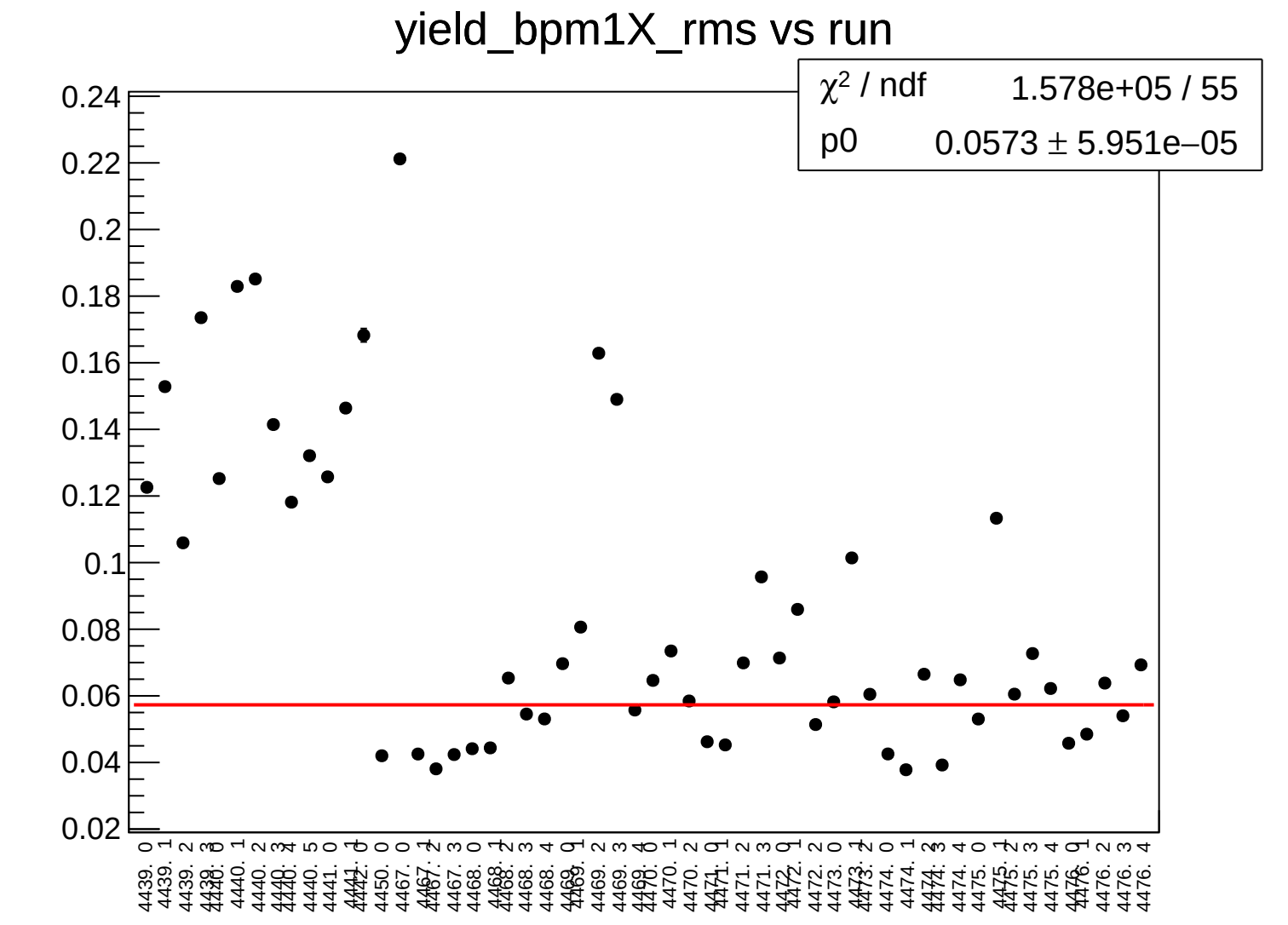

yield_bpm4ecY_mean vs run
χ² / ndf 4.062e+05 / 55
p0 1.059 ± 3.742e−05
1.1
1.08
1.06
1.04
1.02
1
pull
Entries 56
Mean −1.134e+04
Std Dev 1.136e+04
200
150
100
50
0
−50
−100
−150


pull1D
Entries 56
Mean 0.6219
Std Dev 4.096
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4ecY_rms vs run
χ² / ndf 2.965e+05 / 55
p0 0.0235 ± 2.646e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02


yield_bpm1X_mean vs run
χ² / ndf 1.819e+07 / 55
p0 −0.5441 ± 8.416e−05
pull
Entries 56
Mean −27.21
Std Dev 48.48


pull1D
Entries 56
Mean 0
Std Dev 0


yield_bpm1X_rms vs run
χ² / ndf 1.578e+05 / 55
p0 0.0573 ± 5.951e−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
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
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4468. 3
4468. 4
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4469. 4
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4471. 1
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4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
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4475. 2
4475. 3
4475. 4
4476. 0
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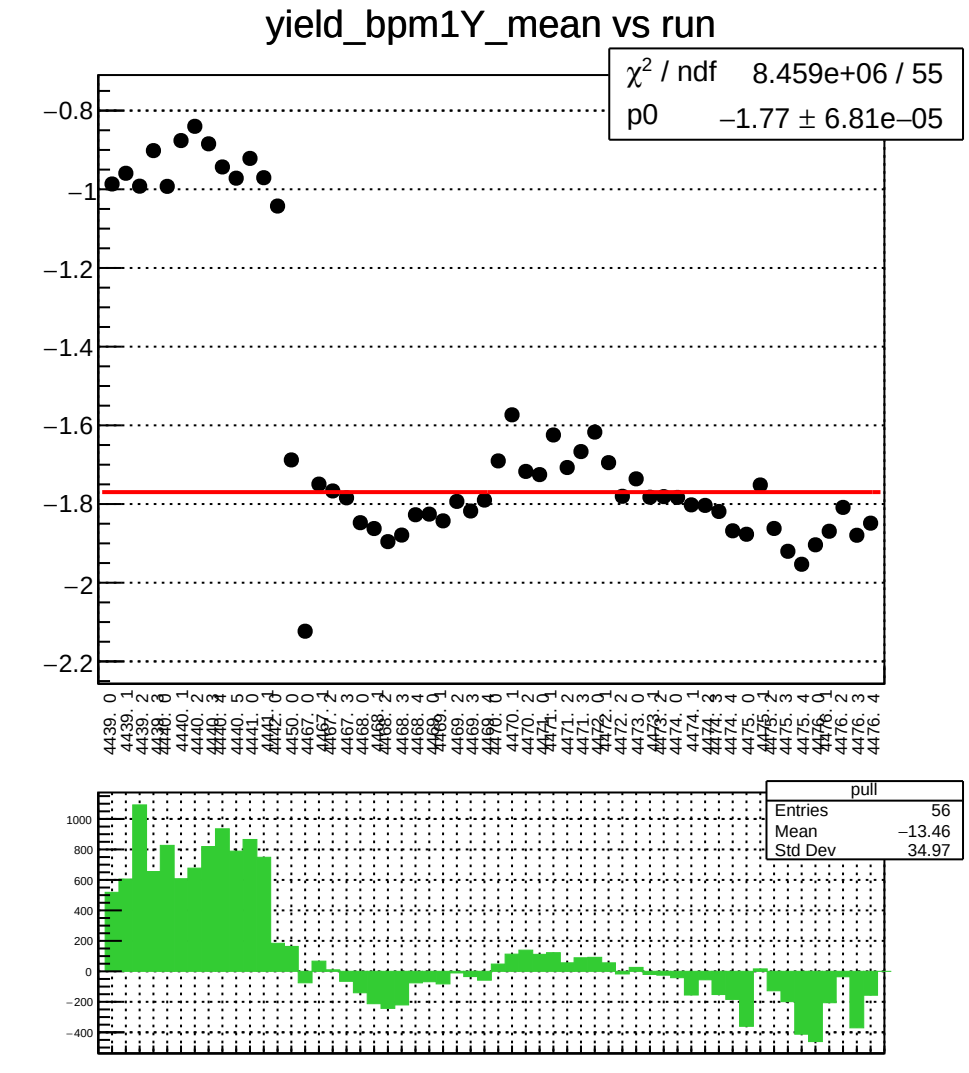
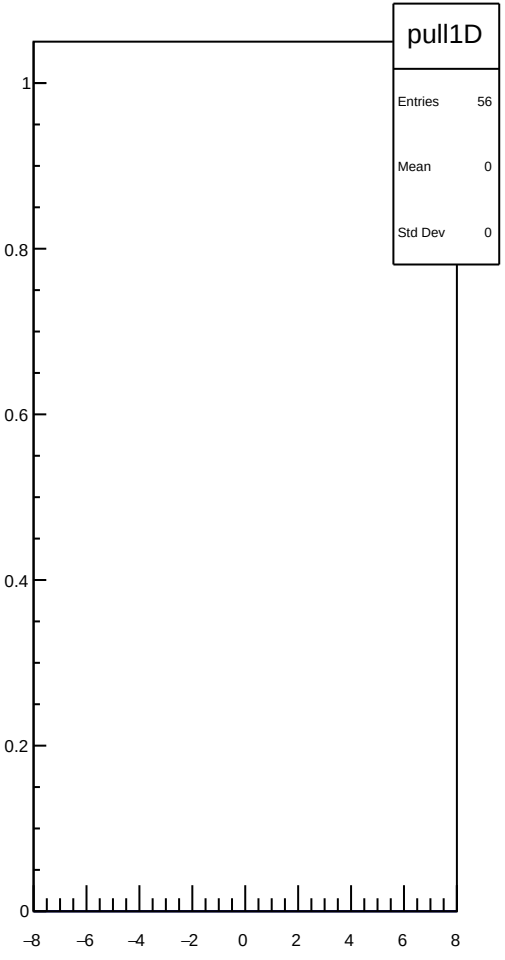
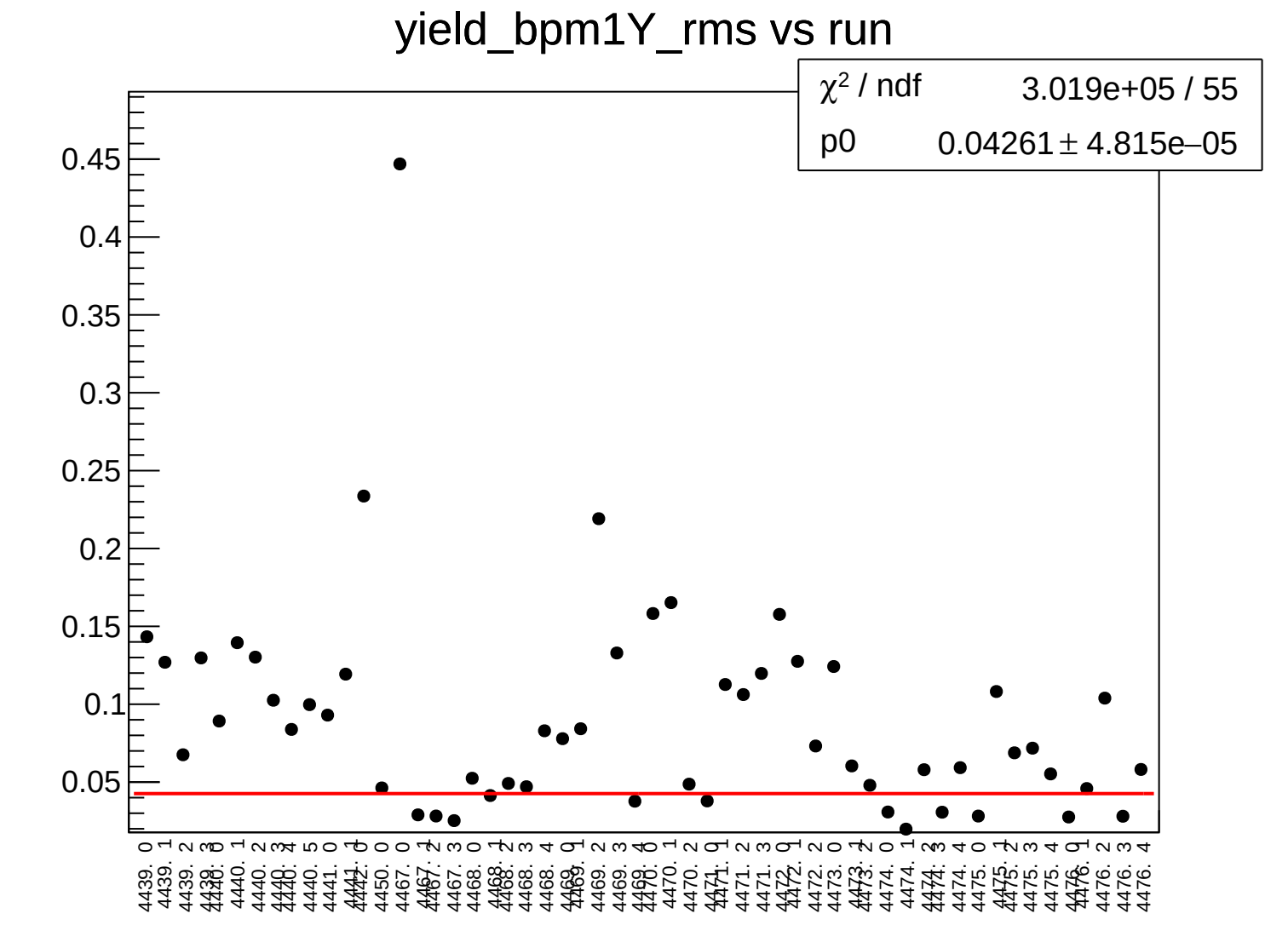
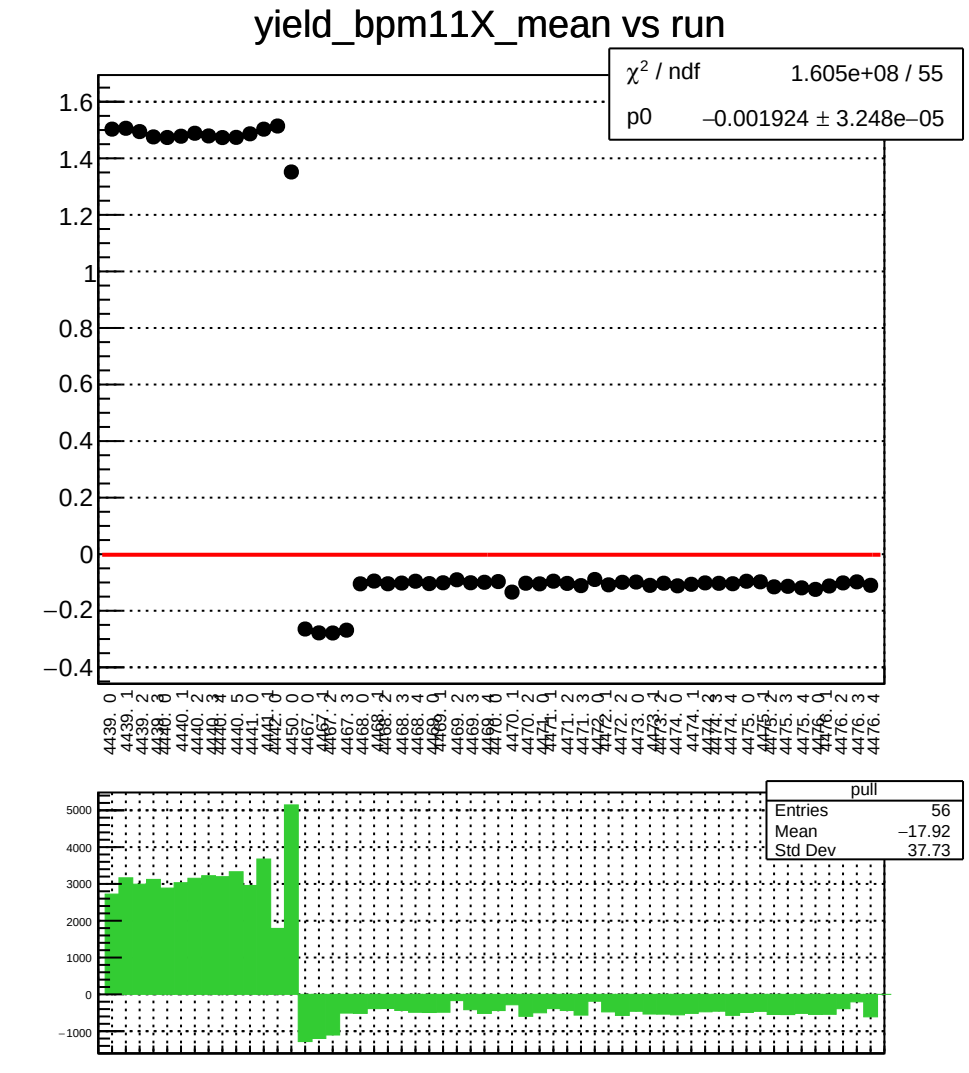
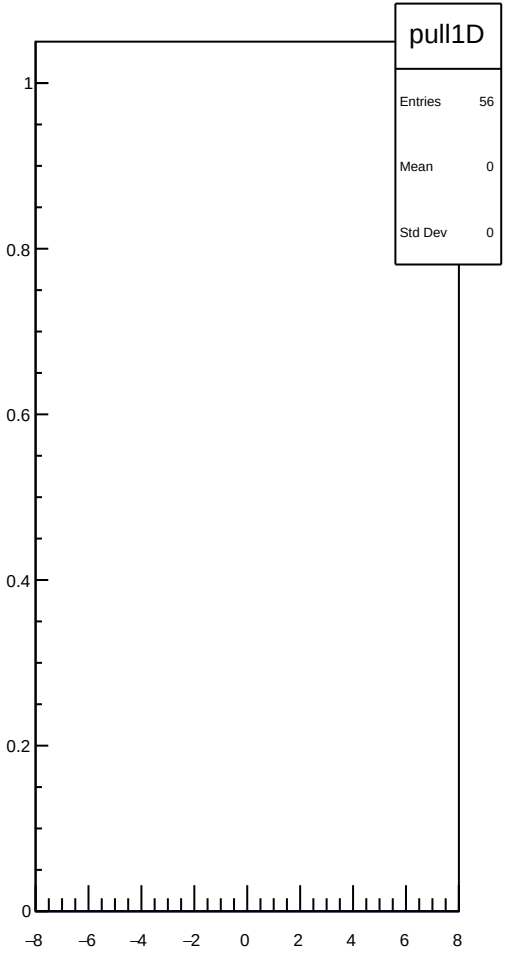
4476. 2
4476. 3
4476. 4

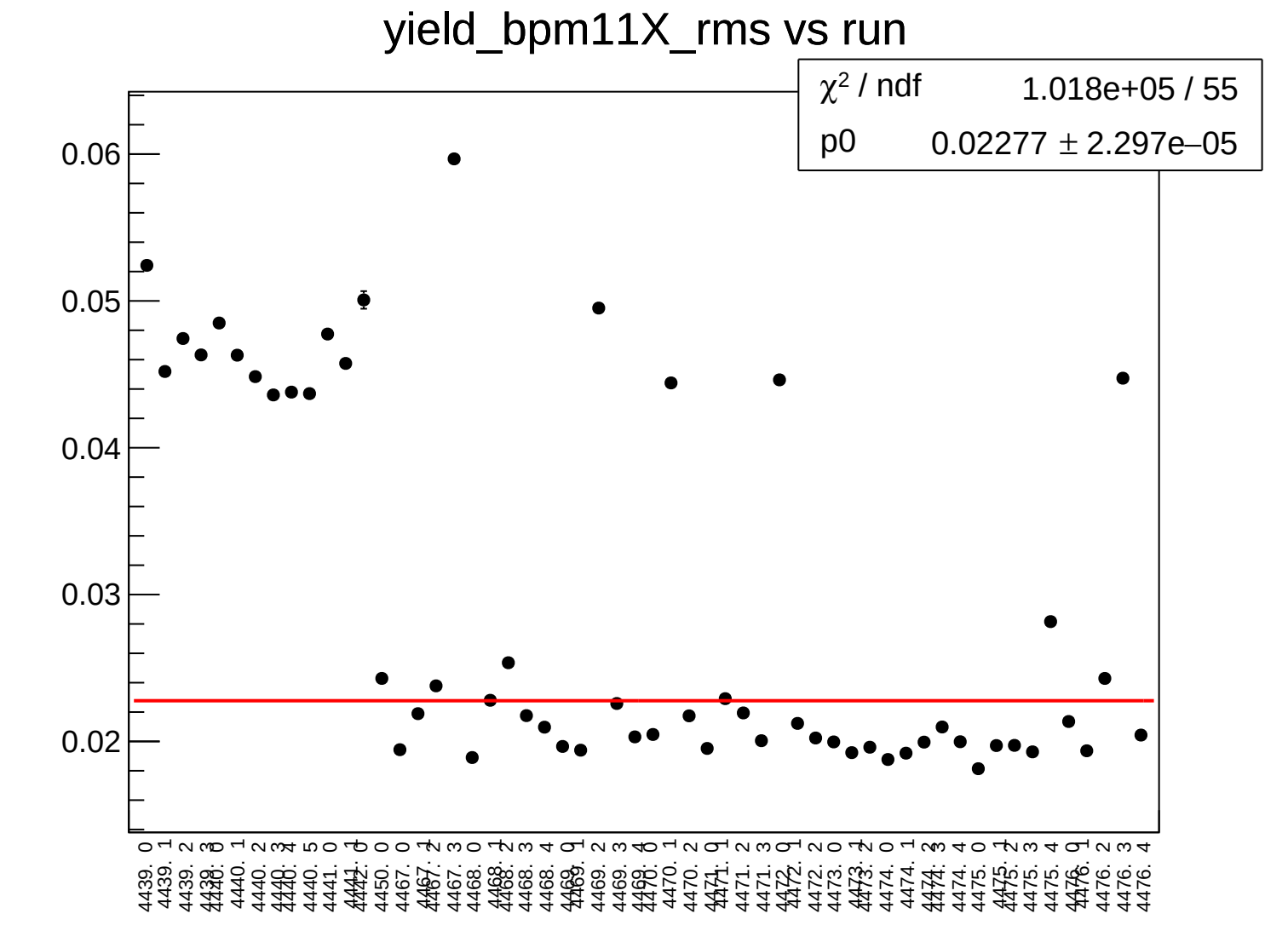

yield_bpm1Y_mean vs run
χ² / ndf 8.459e+06 / 55
p0 −1.77 ± 6.81e−05
pull
Entries 56
Mean −13.46
Std Dev 34.97

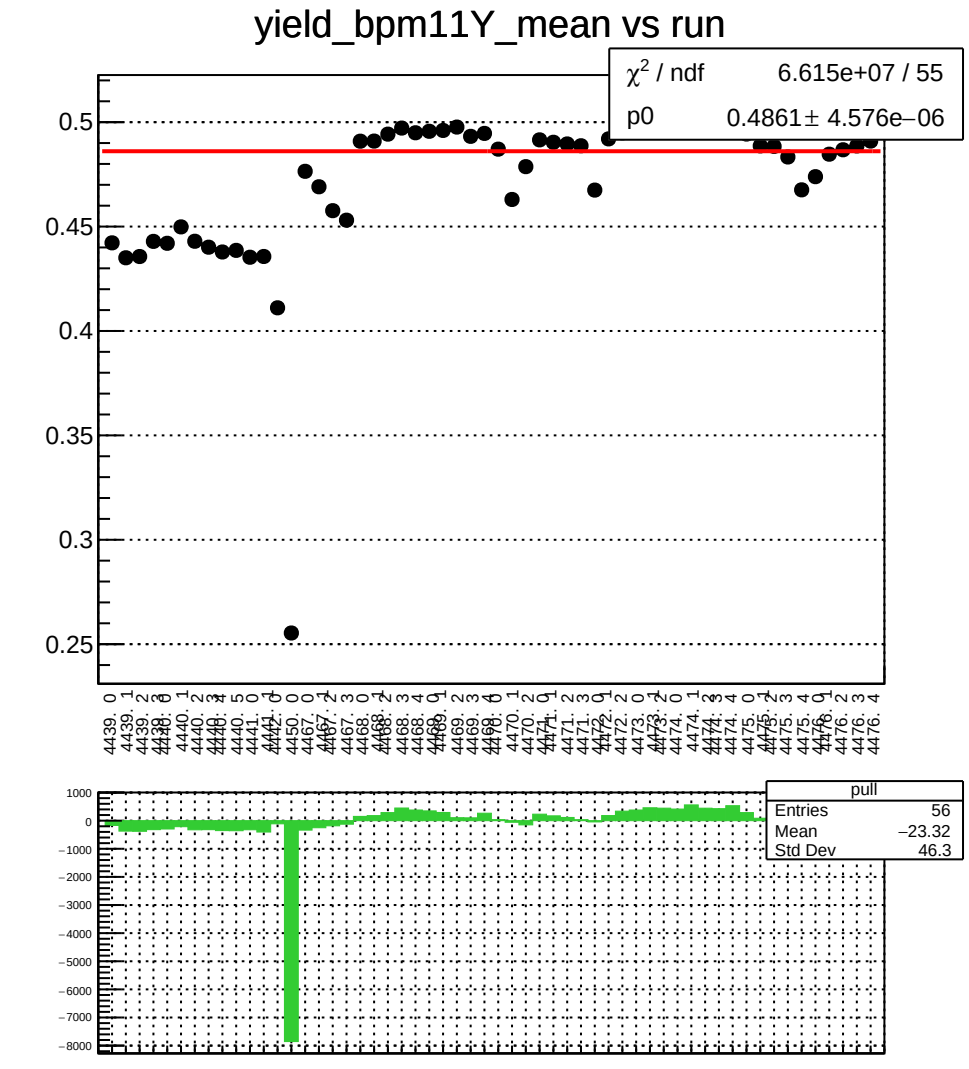

pull1D
Entries 56
Mean 0
Std Dev 0

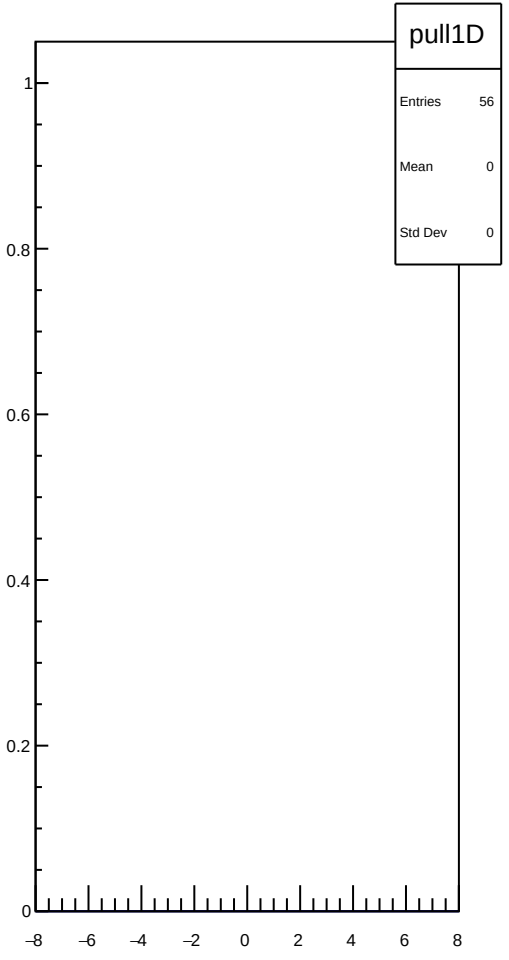

yield_bpm1Y_rms vs run
χ² / ndf 3.019e+05 / 55
p0 0.04261 ± 4.815e–05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

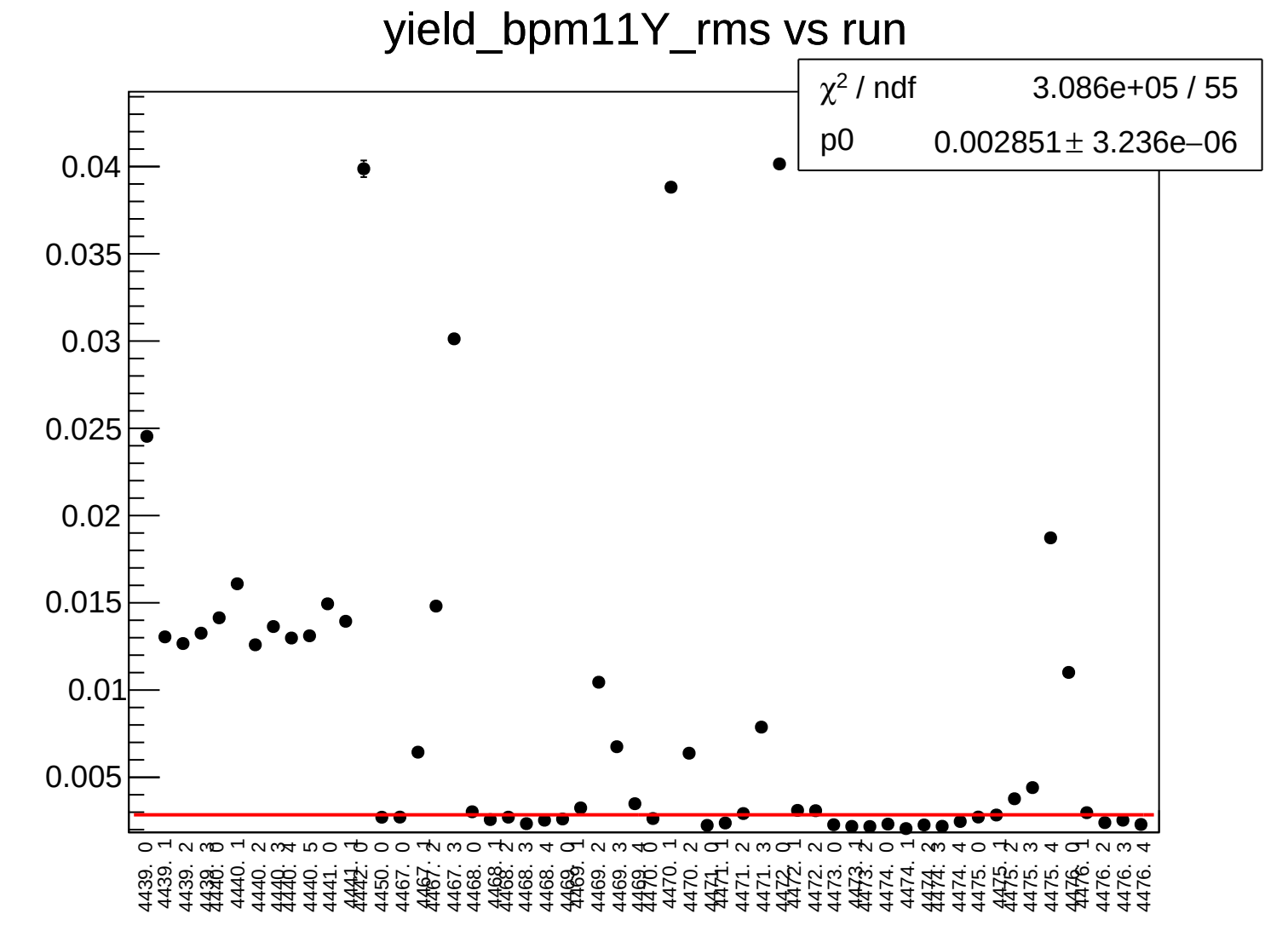

yield_bpm11X_mean vs run
χ² / ndf 1.605e+08 / 55
p0 −0.001924 ± 3.248e−05
pull
Entries 56
Mean −17.92
Std Dev 37.73


pull1D
Entries 56
Mean 0
Std Dev 0


yield_bpm11X_rms vs run
χ² / ndf 1.018e+05 / 55
p0 0.02277 ± 2.297e–05
0.06
0.05
0.04
0.03
0.02


yield_bpm11Y_mean vs run
χ² / ndf 6.615e+07 / 55
p0 0.4861 ± 4.576e−06
pull
Entries 56
Mean −23.32
Std Dev 46.3


pull1D
Entries 56
Mean 0
Std Dev 0


yield_bpm11Y_rms vs run
χ² / ndf 3.086e+05 / 55
p0 0.002851 ± 3.236e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
4439. 0
4439. 1
4439. 2
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4440. 1
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4440. 3
4440. 4
4440. 5
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4450. 0
4467. 0
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4468. 3
4468. 4
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4469. 2
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4474. 2
4474. 3
4474. 4
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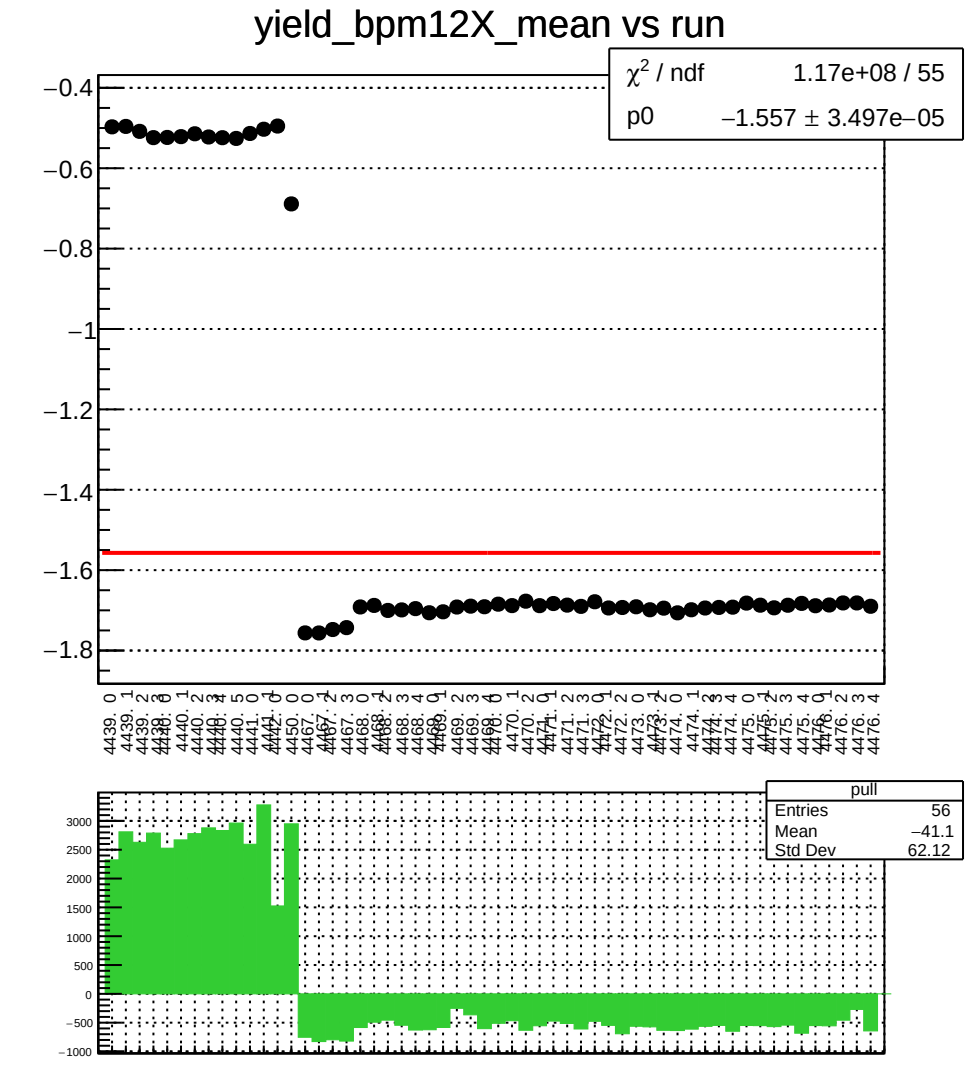
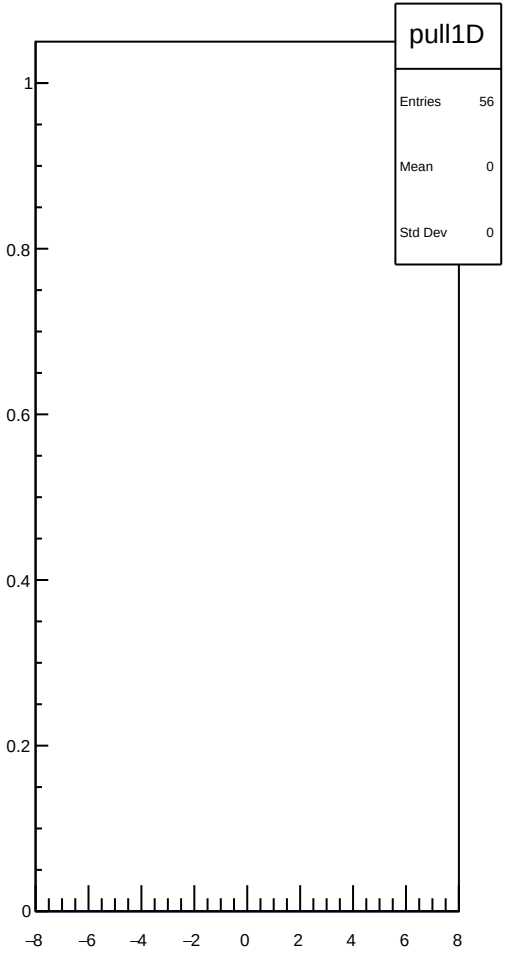
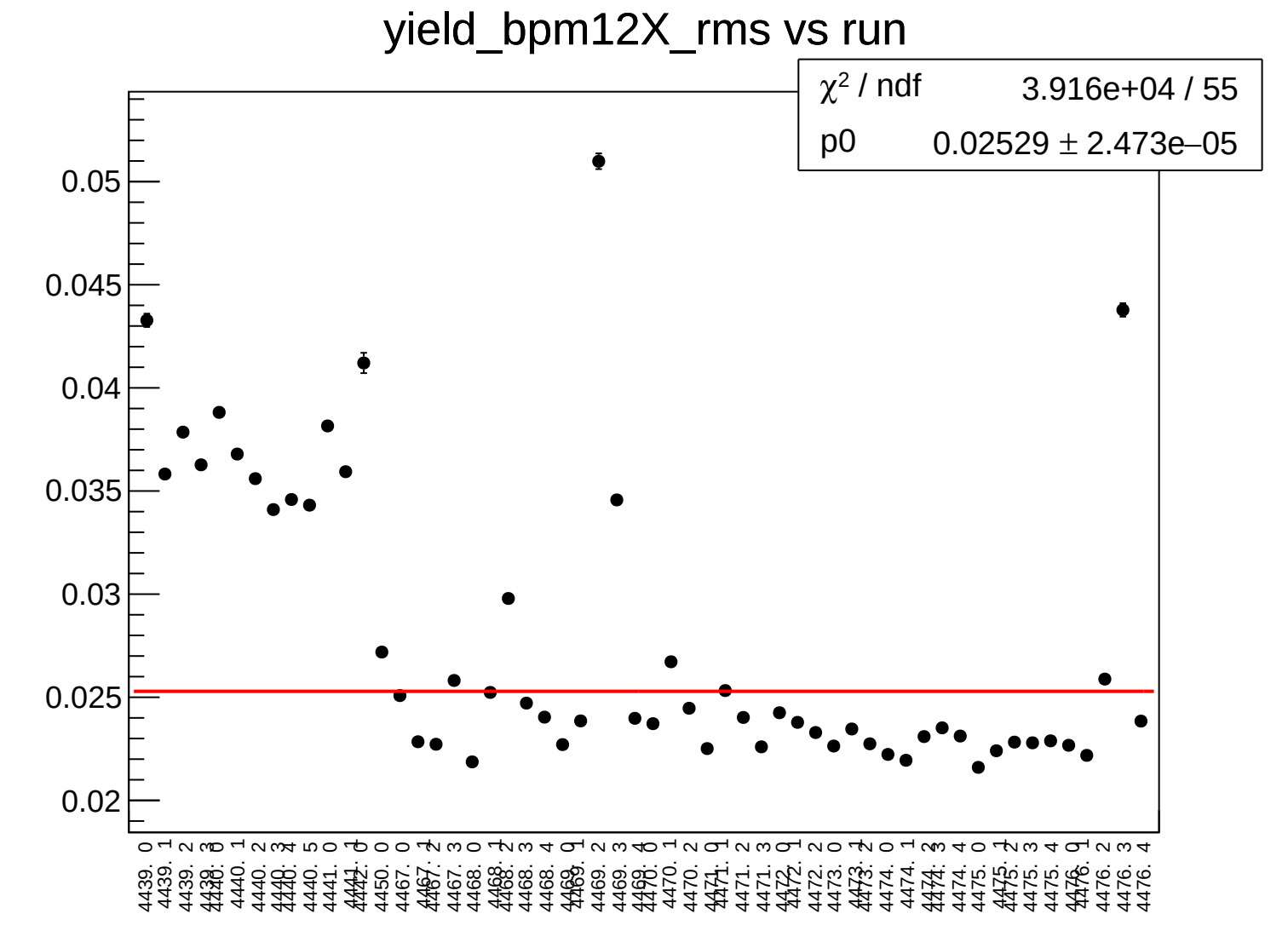
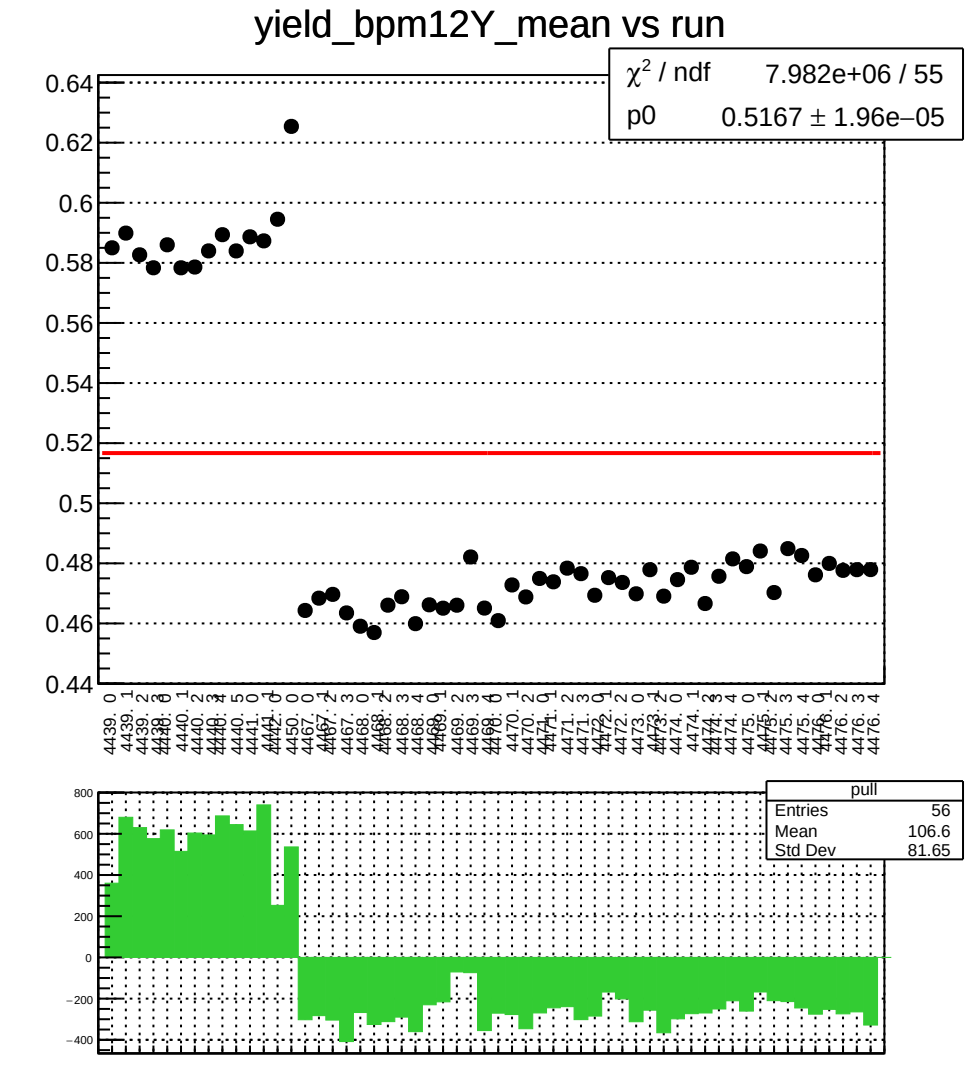
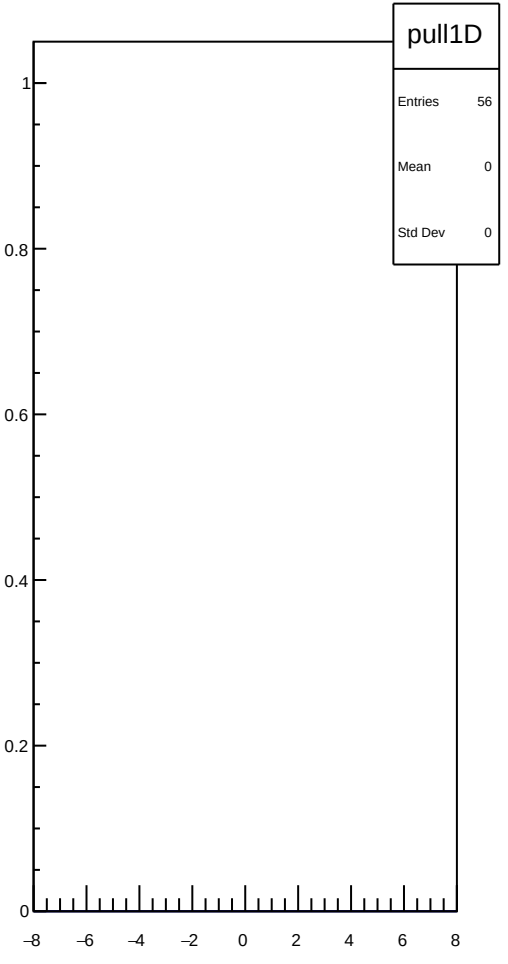
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

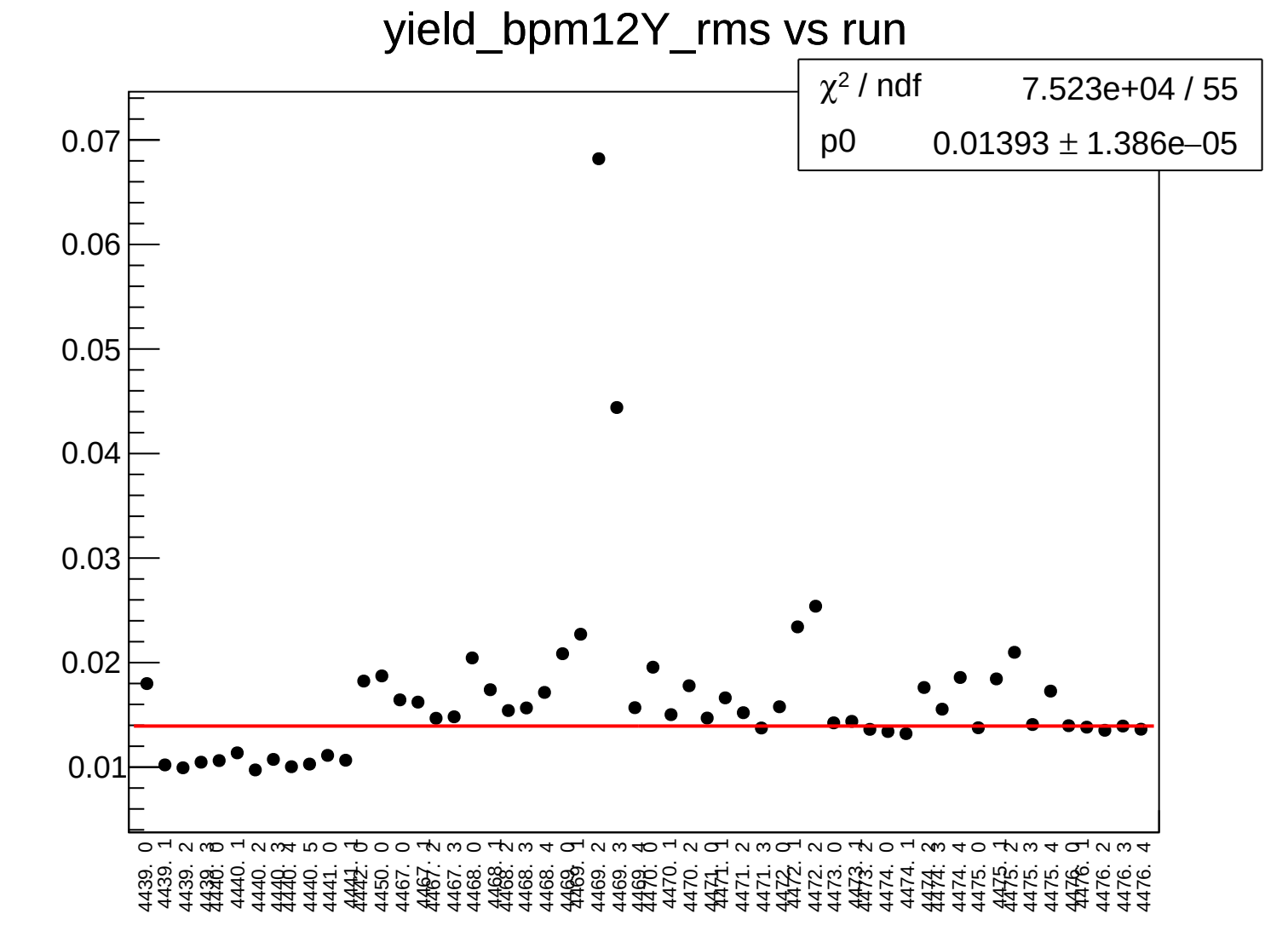

yield_bpm12X_mean vs run
χ² / ndf 1.17e+08 / 55
p0 −1.557 ± 3.497e−05
pull
Entries 56
Mean −41.1
Std Dev 62.12

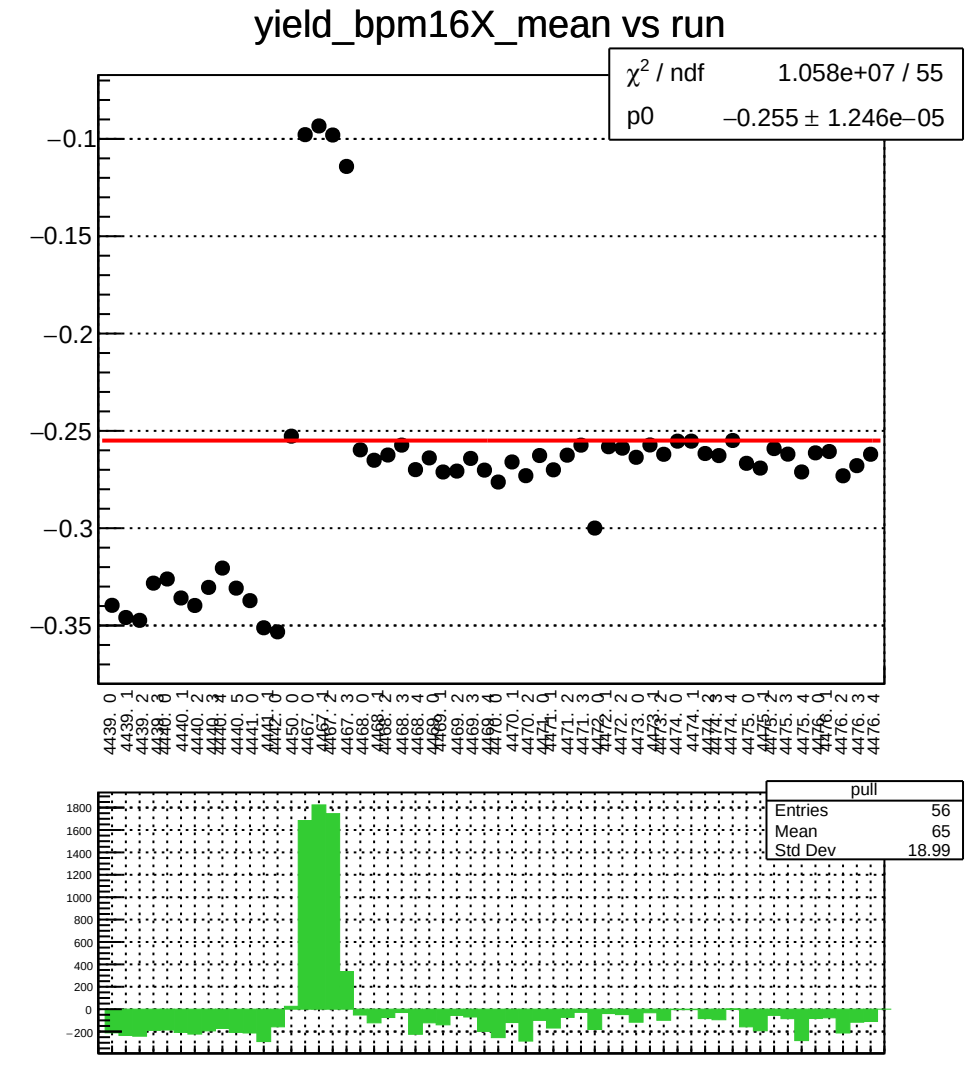

pull1D
Entries 56
Mean 0
Std Dev 0

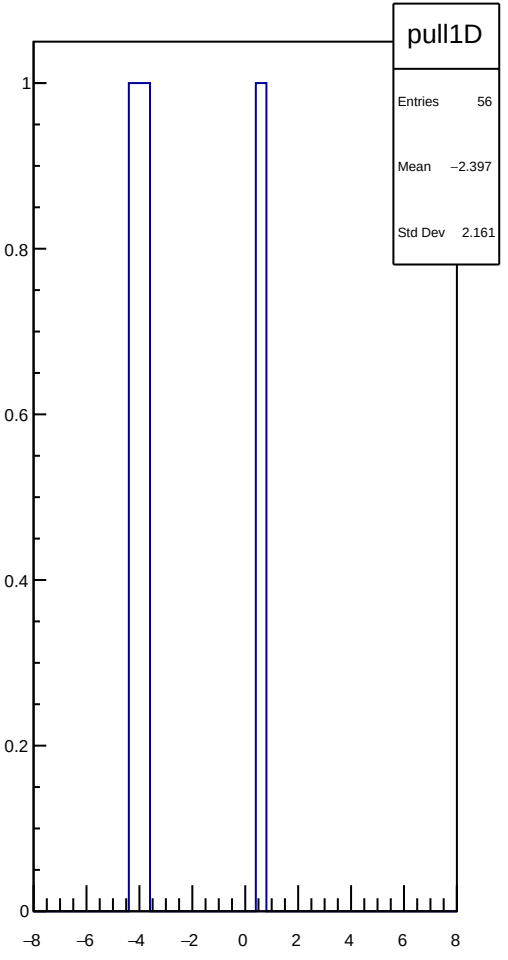

yield_bpm12X_rms vs run
χ² / ndf 3.916e+04 / 55
p0 0.02529 ± 2.473e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02

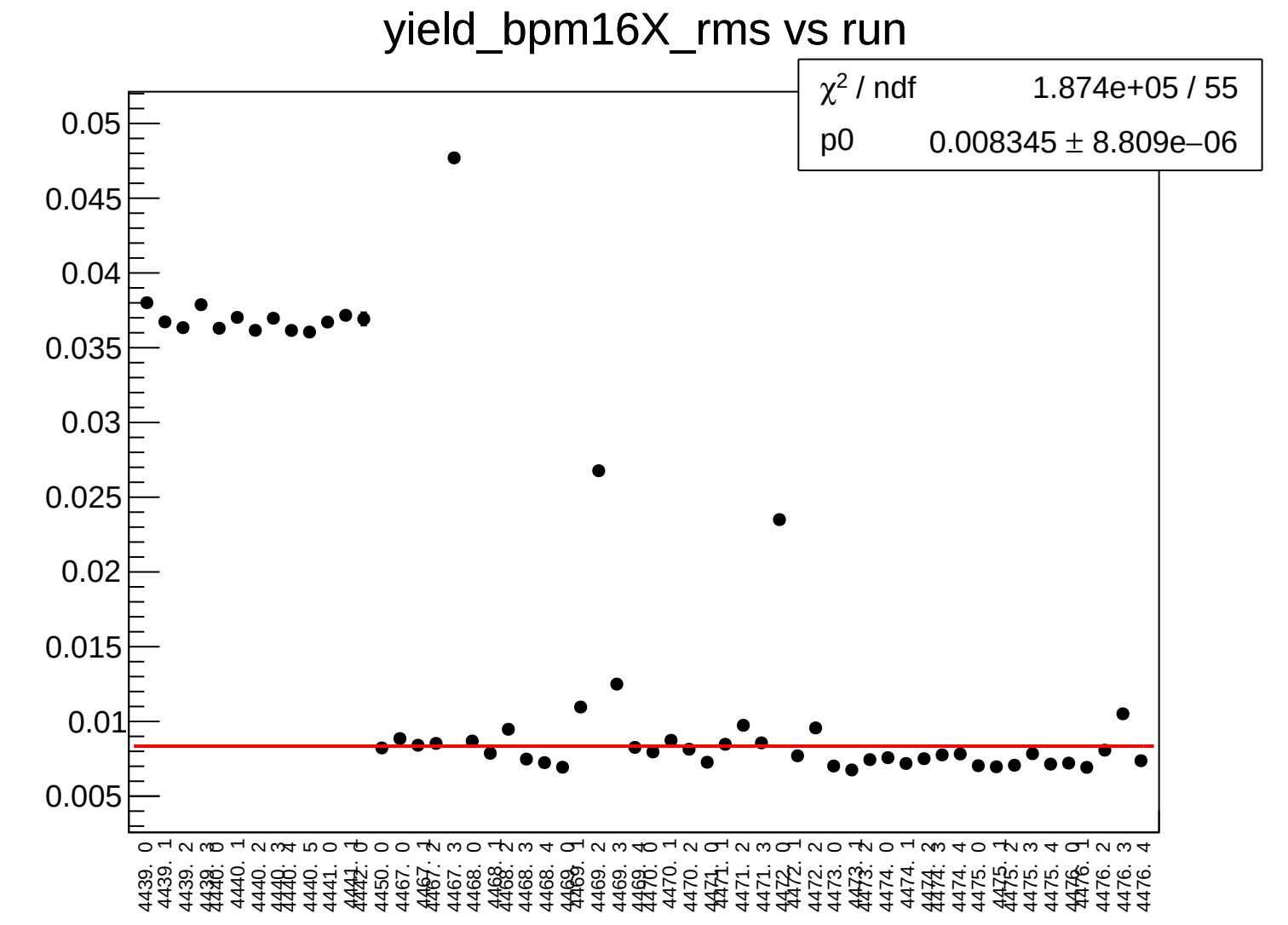

yield_bpm12Y_mean vs run
χ² / ndf 7.982e+06 / 55
p0 0.5167 ± 1.96e−05
pull
Entries 56
Mean 106.6
Std Dev 81.65

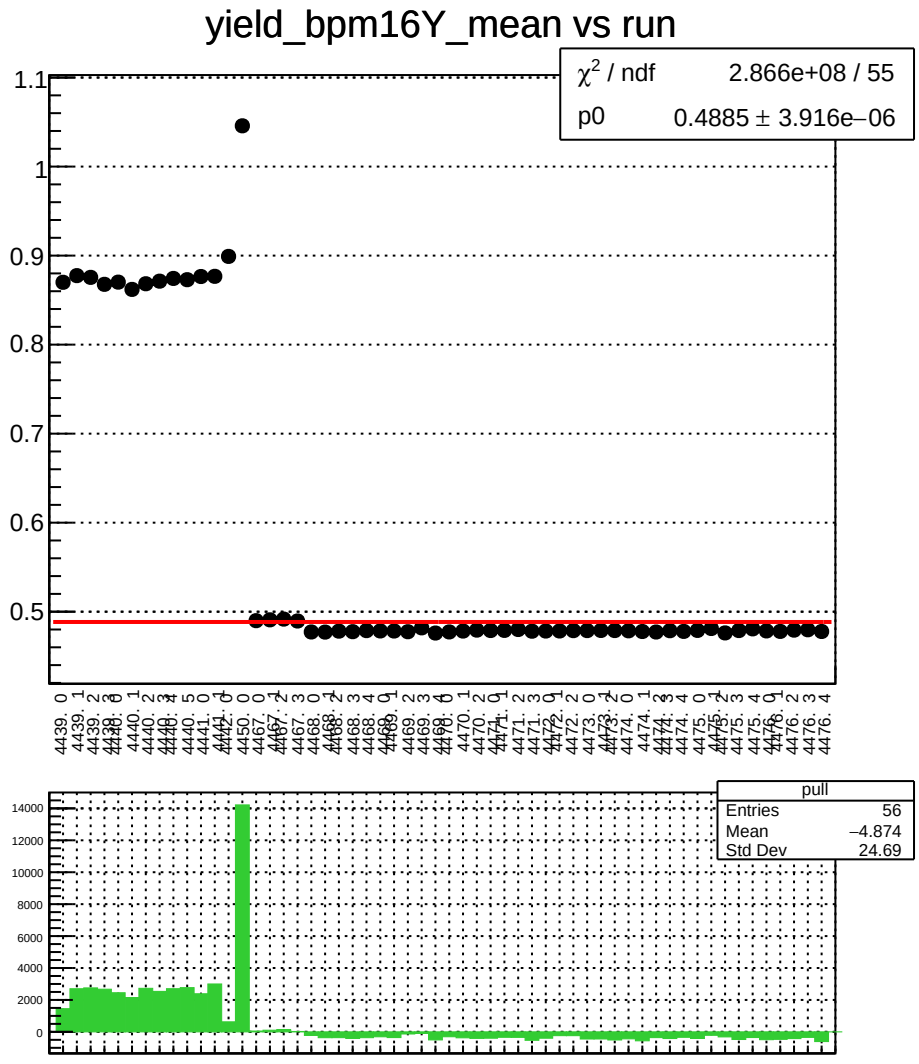

pull1D
Entries 56
Mean 0
Std Dev 0

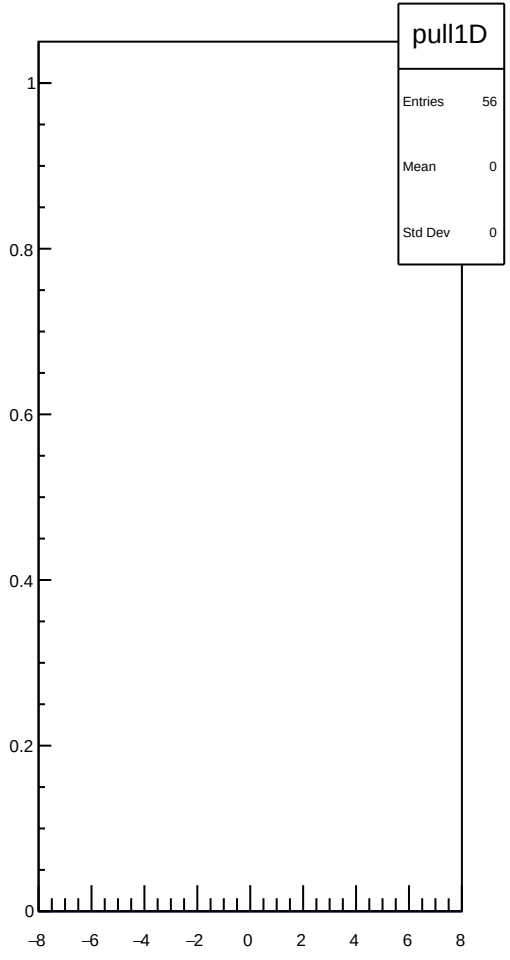

yield_bpm12Y_rms vs run
χ² / ndf 7.523e+04 / 55
p0 0.01393 ± 1.386e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

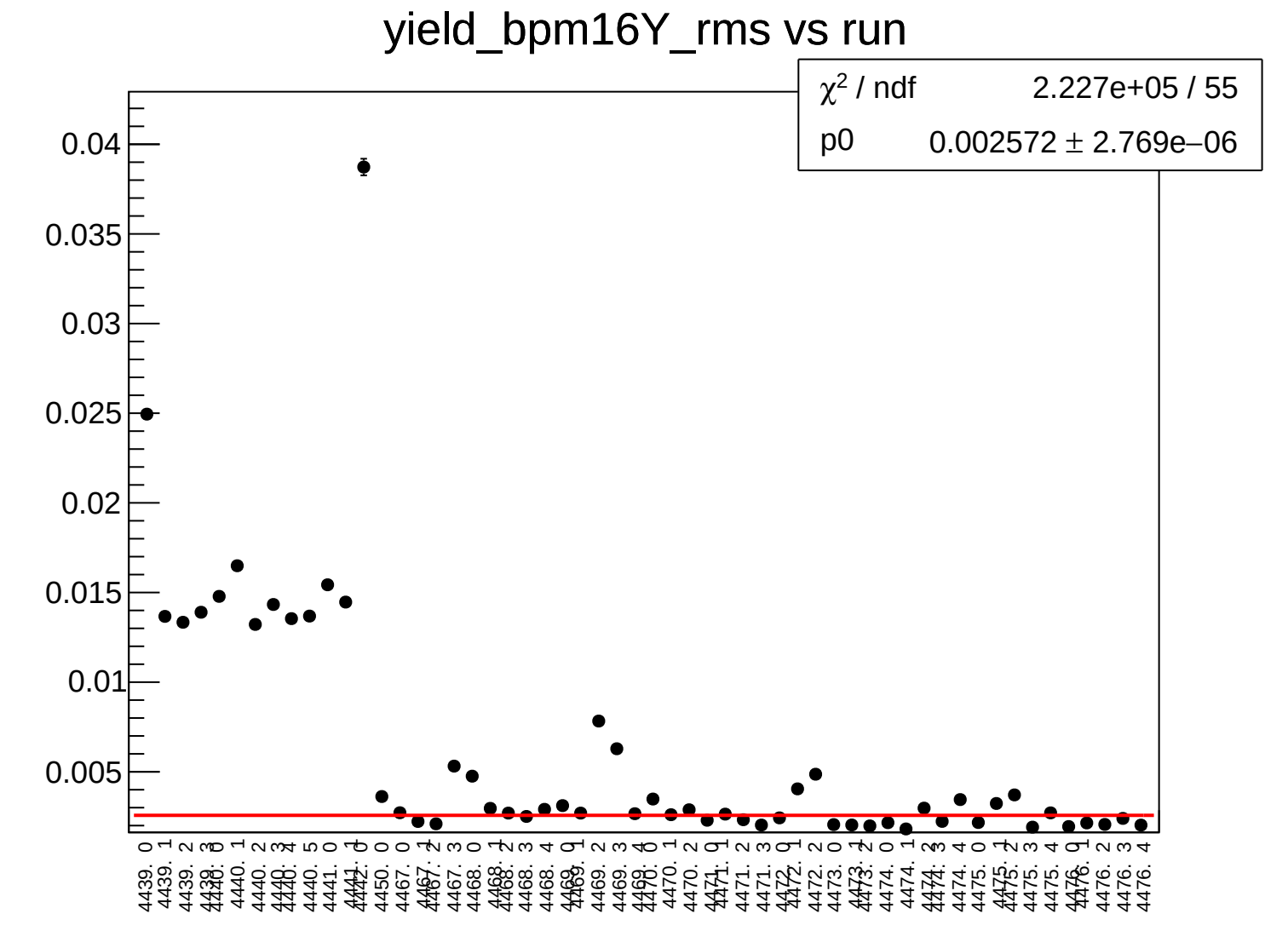

yield_bpm16X_mean vs run
χ² / ndf 1.058e+07 / 55
p0 −0.255 ± 1.246e−05
pull
Entries 56
Mean 65
Std Dev 18.99


pull1D
Entries 56
Mean −2.397
Std Dev 2.161


yield_bpm16X_rms vs run
χ² / ndf 1.874e+05 / 55
p0 0.008345 ± 8.809e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005


yield_bpm16Y_mean vs run
χ² / ndf 2.866e+08 / 55
p0 0.4885 ± 3.916e−06
pull
Entries 56
Mean −4.874
Std Dev 24.69


pull1D
Entries 56
Mean 0
Std Dev 0


yield_bpm16Y_rms vs run
χ² / ndf 2.227e+05 / 55
p0 0.002572 ± 2.769e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
4439. 0
4439. 1
4439. 2
4439. 3
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4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
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4467. 0
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4467. 2
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4468. 0
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4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
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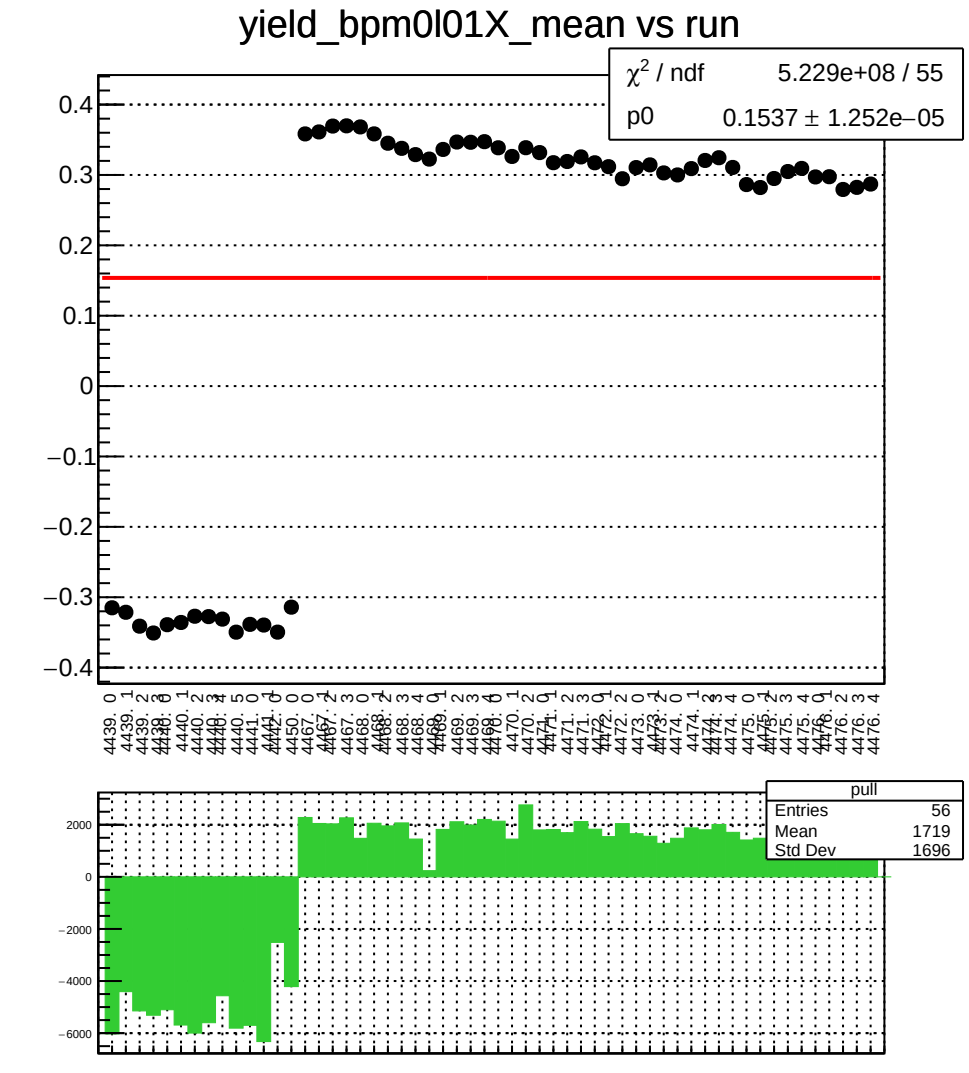
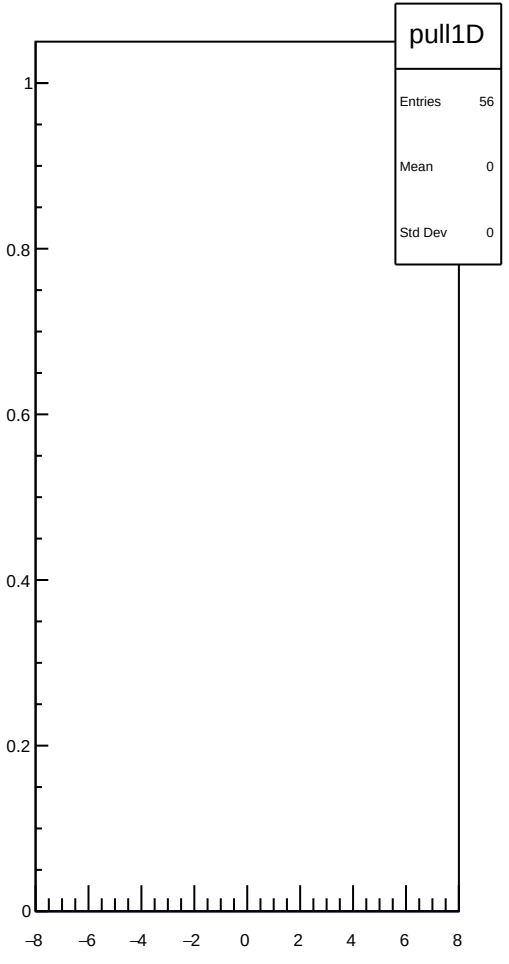
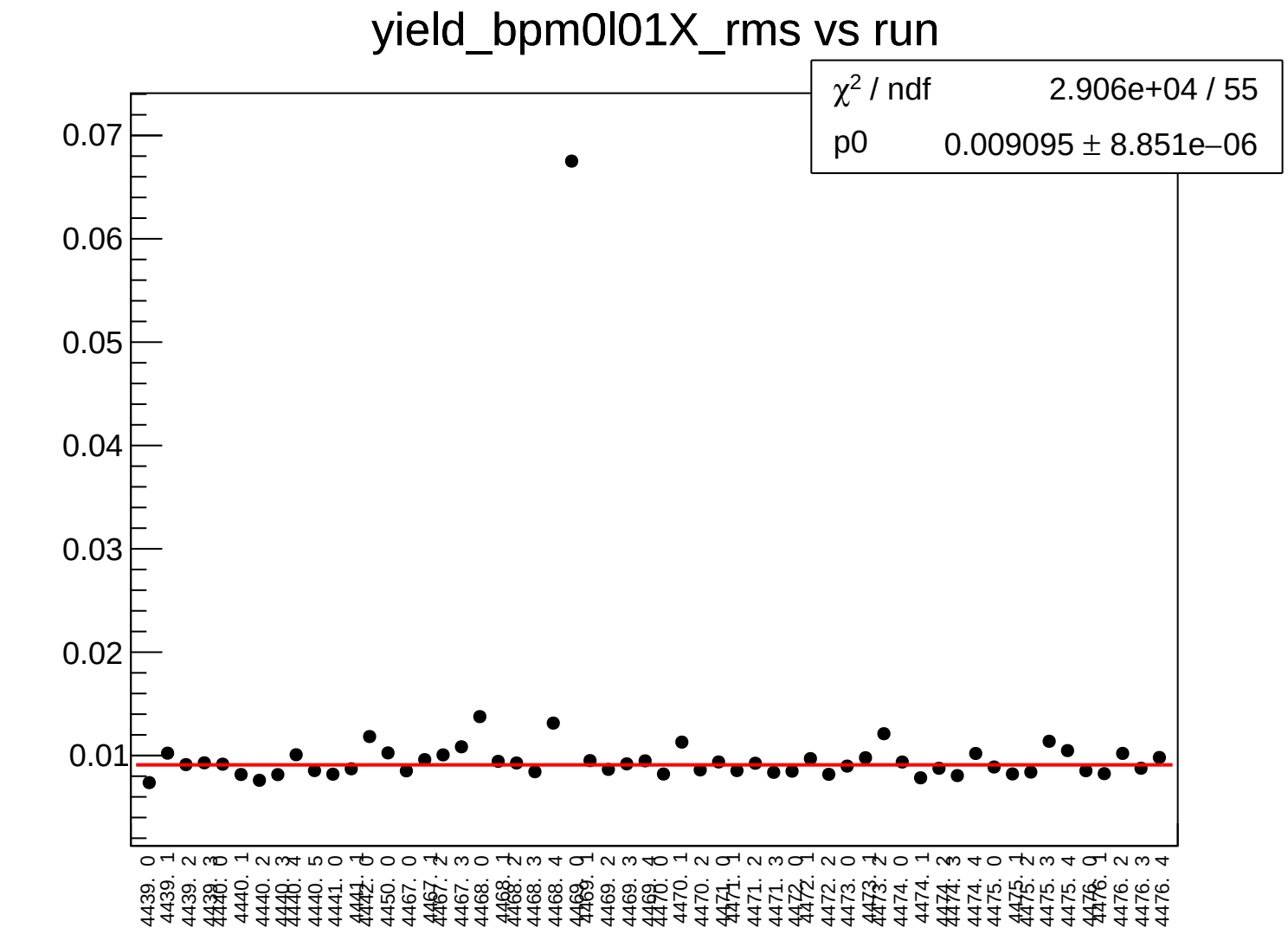

yield_bpm0l01X_mean vs run
χ² / ndf 5.229e+08 / 55
p0 0.1537 ± 1.252e−05
pull
Entries 56
Mean 1719
Std Dev 1696


pull1D
Entries 56
Mean 0
Std Dev 0


yield_bpm0l01X_rms vs run
χ² / ndf 2.906e+04 / 55
p0 0.009095 ± 8.851e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
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4475. 0
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4475. 2
4475. 3
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4476. 0
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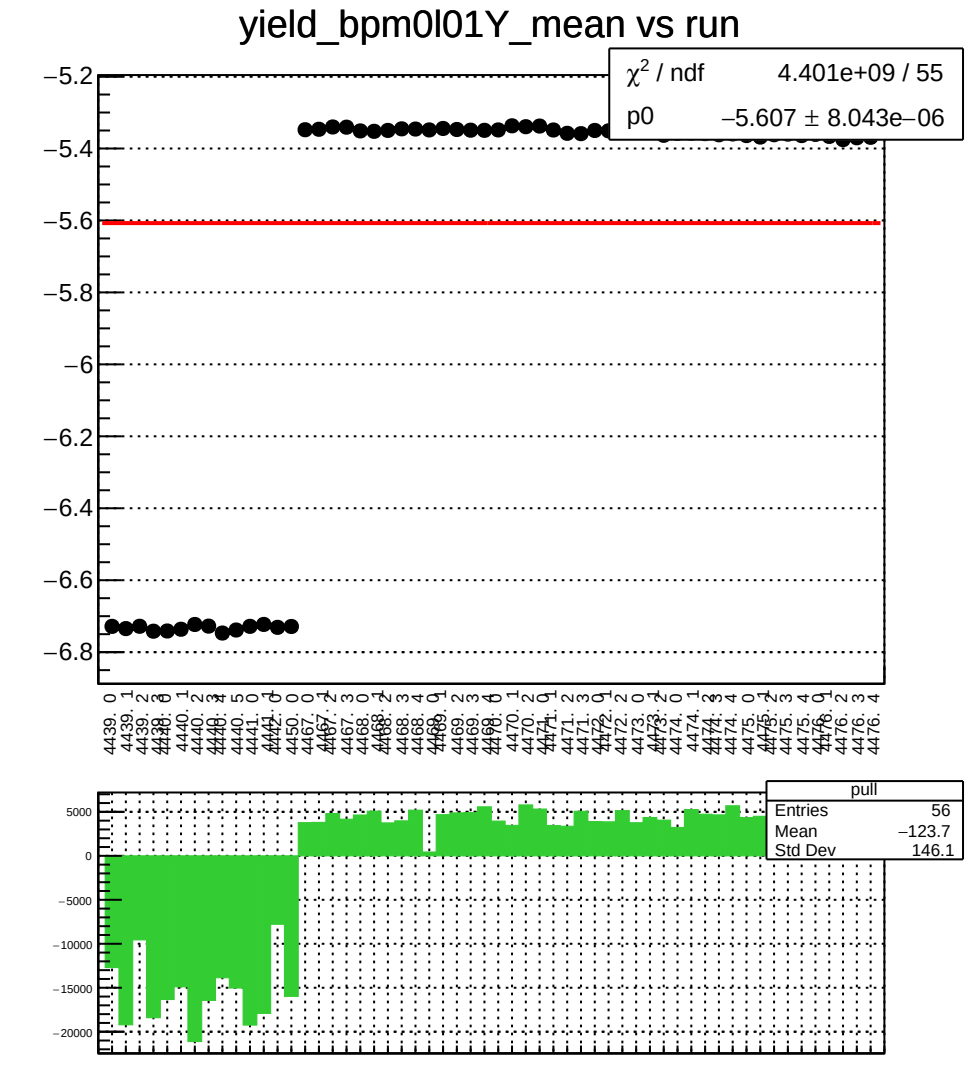
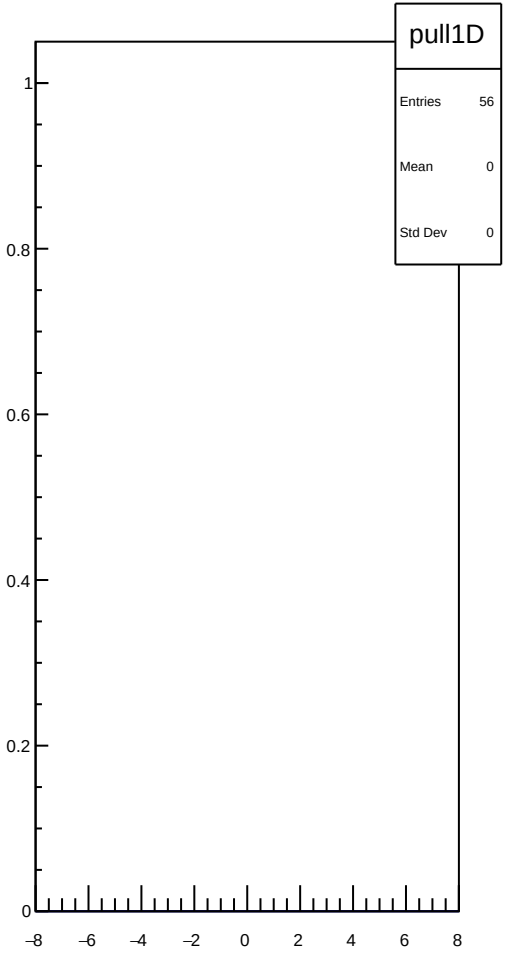
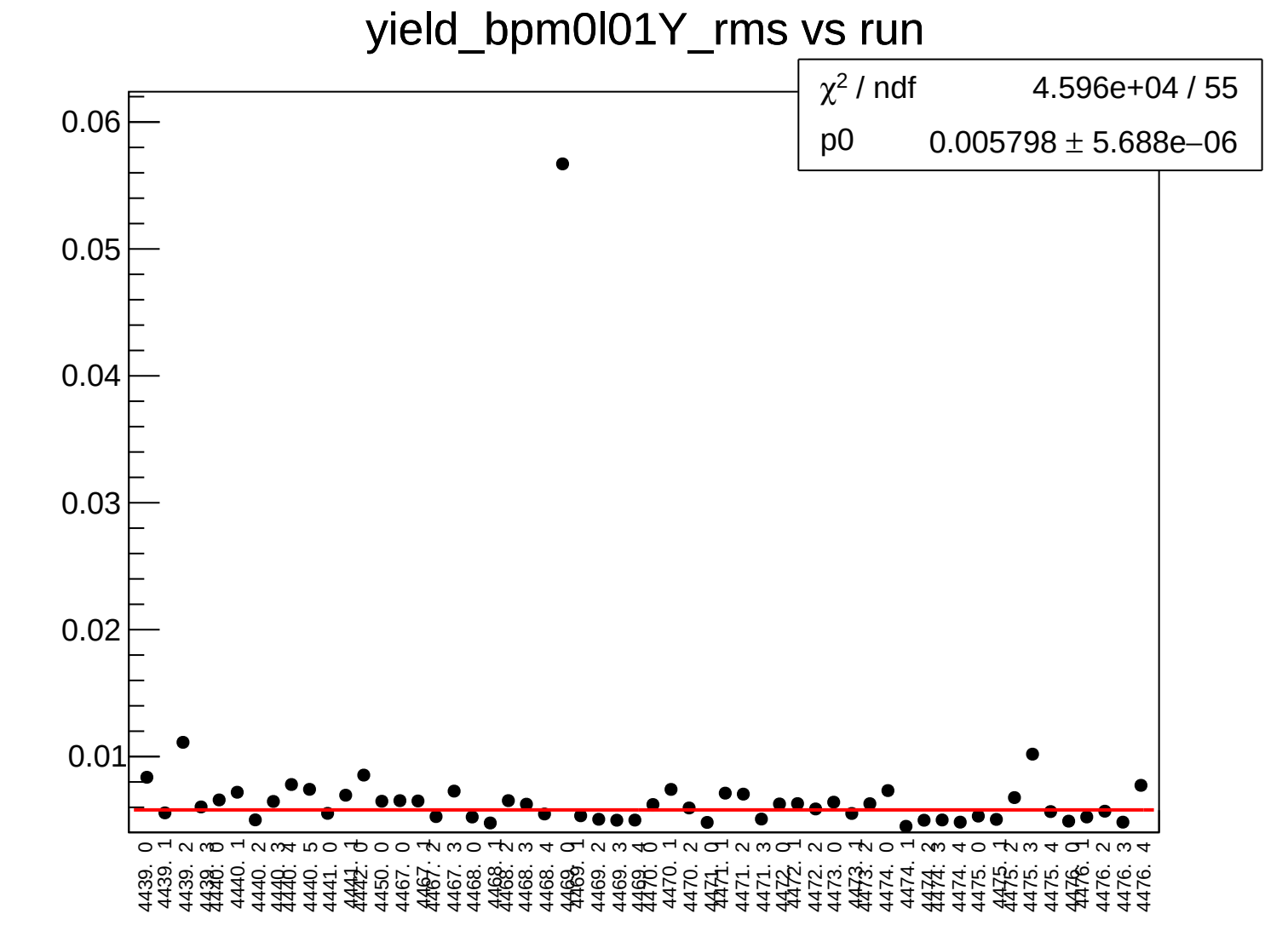
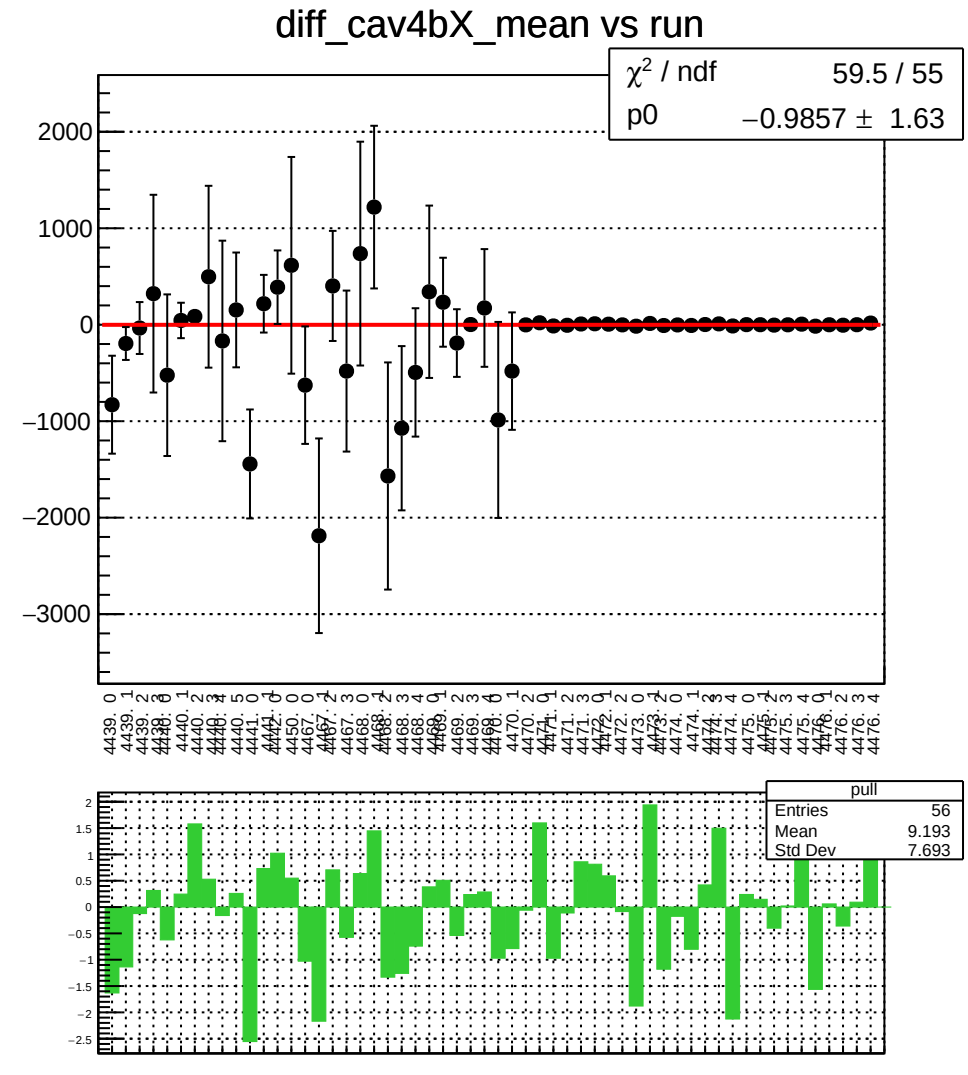
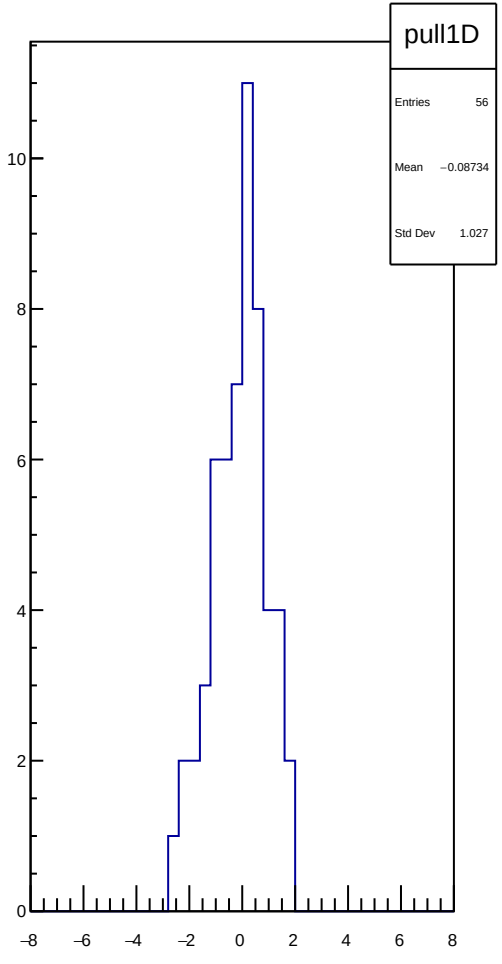
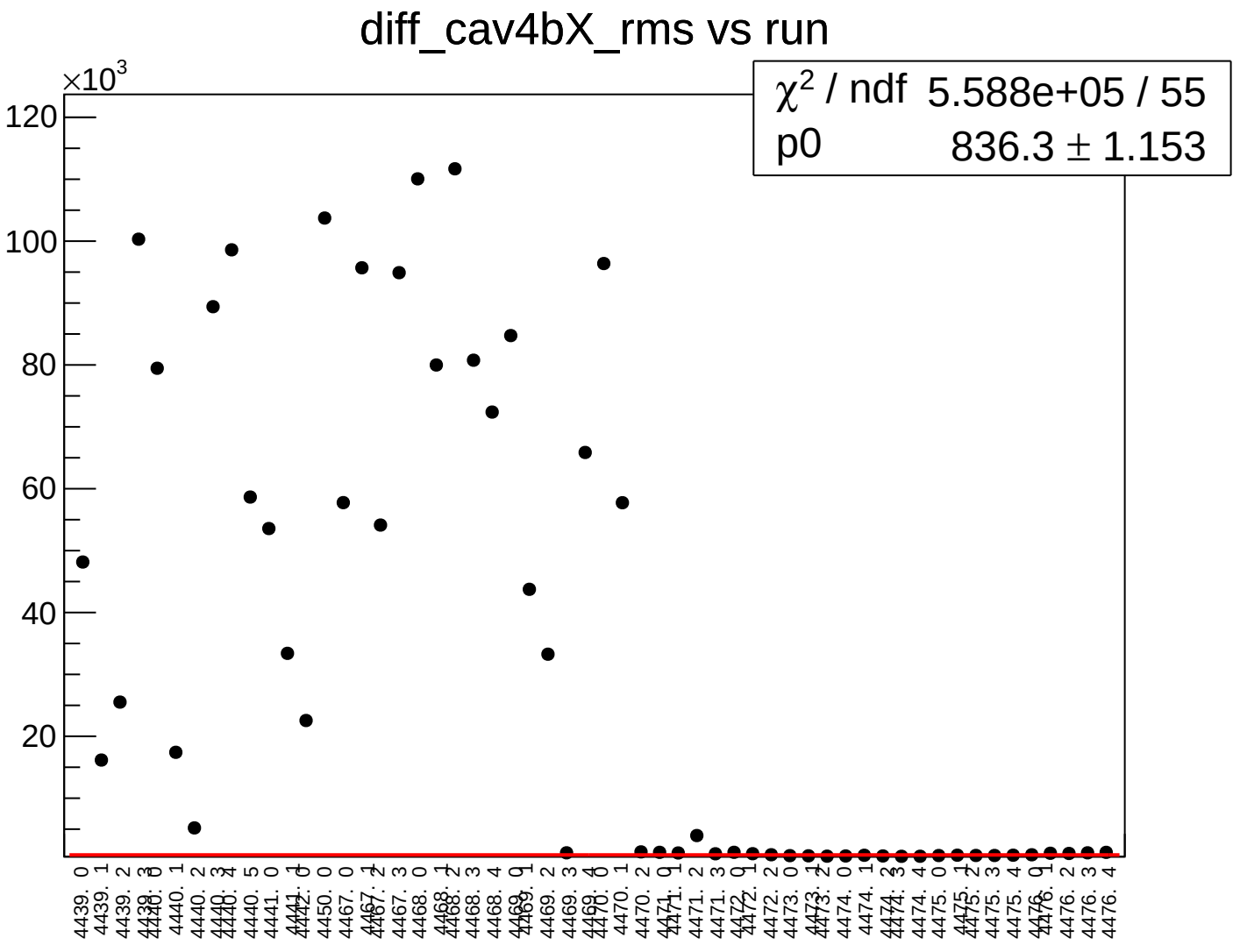

yield_bpm0l01Y_mean vs run
χ² / ndf 4.401e+09 / 55
p0 −5.607 ± 8.043e−06
pull
Entries 56
Mean −123.7
Std Dev 146.1

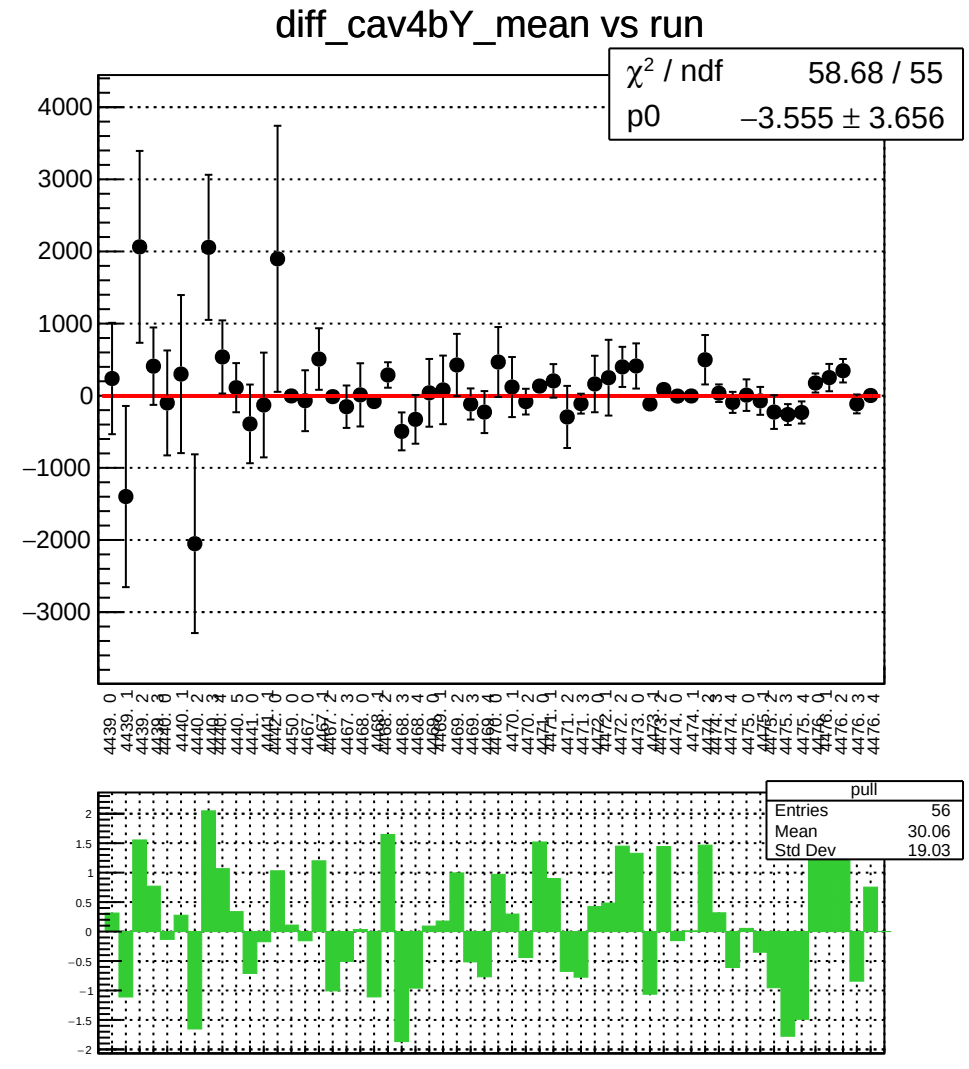

pull1D
Entries 56
Mean 0
Std Dev 0

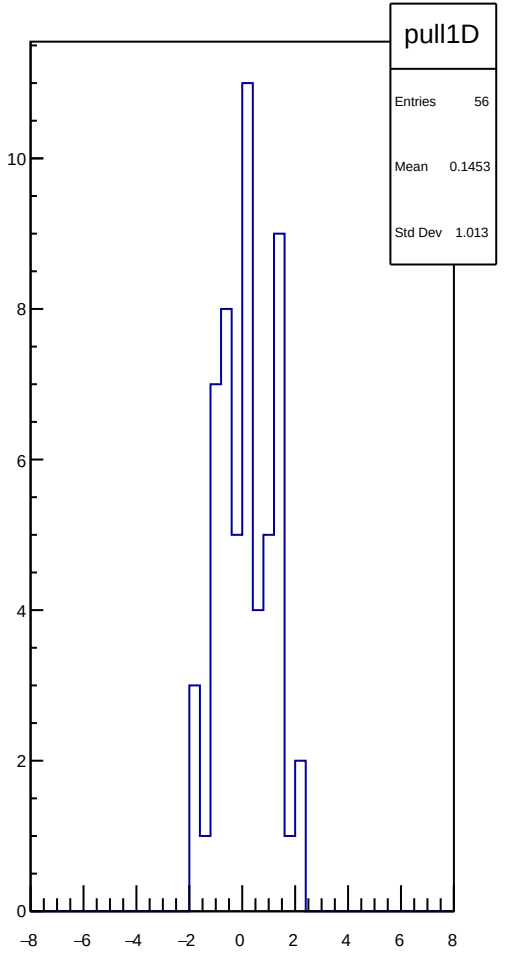

yield_bpm0l01Y_rms vs run
χ² / ndf 4.596e+04 / 55
p0 0.005798 ± 5.688e−06
0.06
0.05
0.04
0.03
0.02
0.01

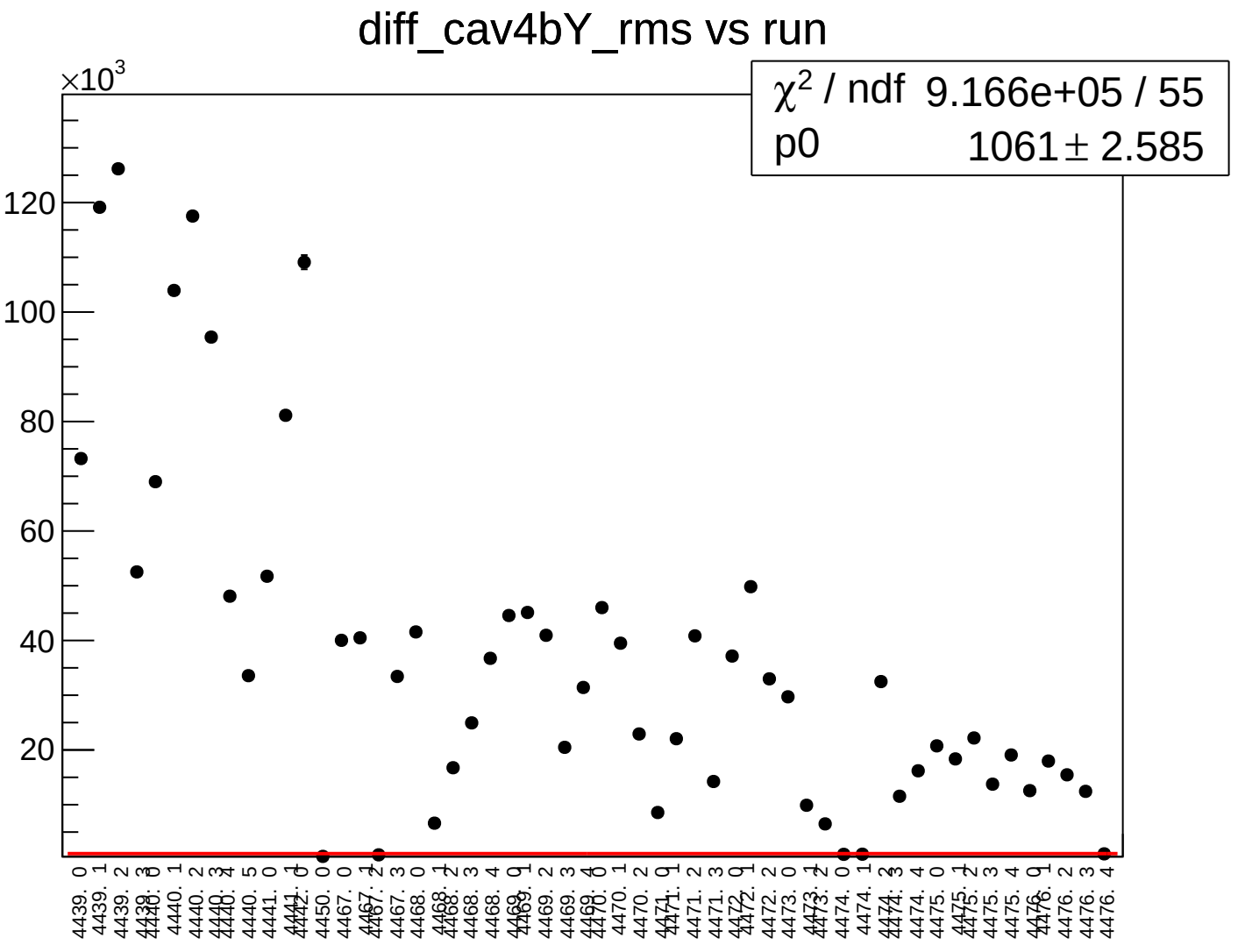

diff_cav4bX_mean vs run
χ² / ndf 59.5 / 55
p0 −0.9857 ± 1.63
pull
Entries 56
Mean 9.193
Std Dev 7.693

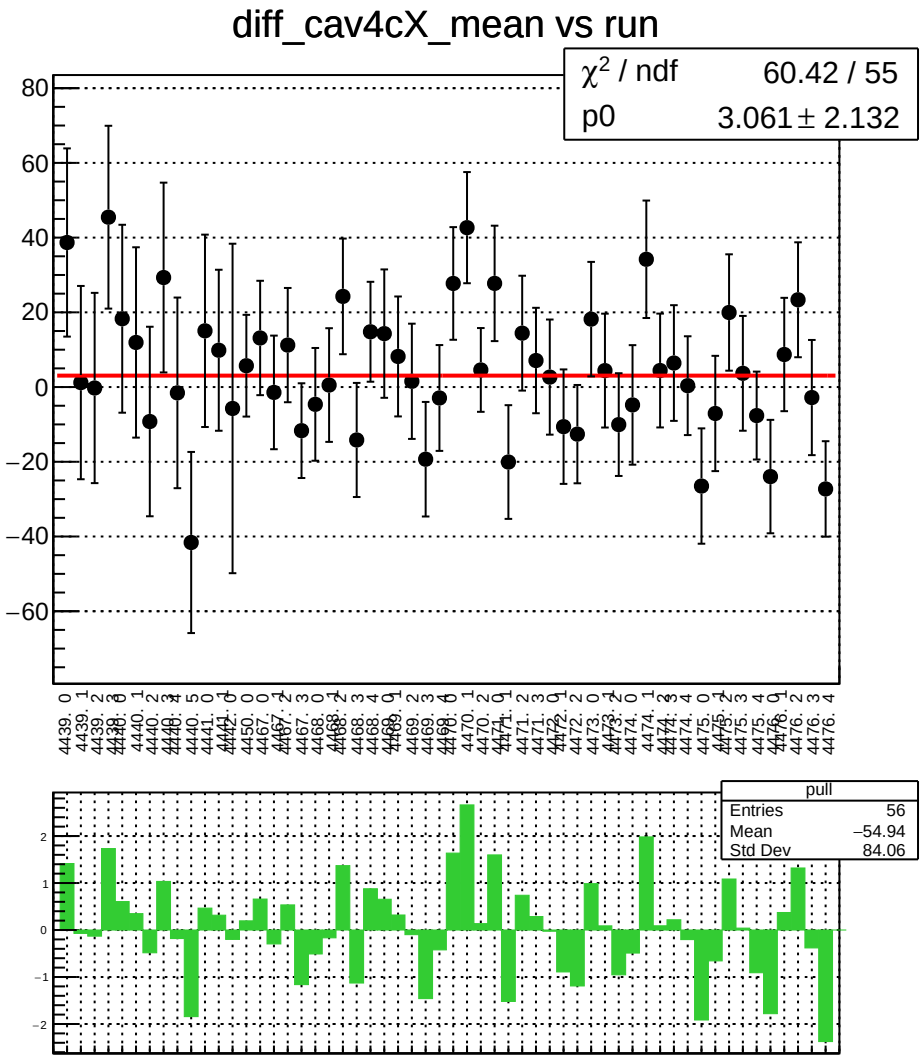

pull1D
Entries 56
Mean −0.08734
Std Dev 1.027

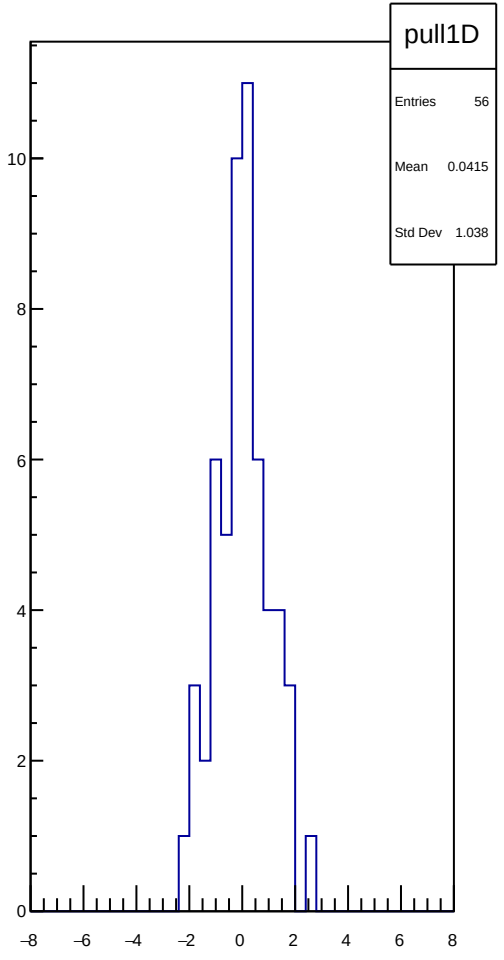

diff_cav4bX_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 5.588e+05 / 55
p0 836.3 ± 1.153
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

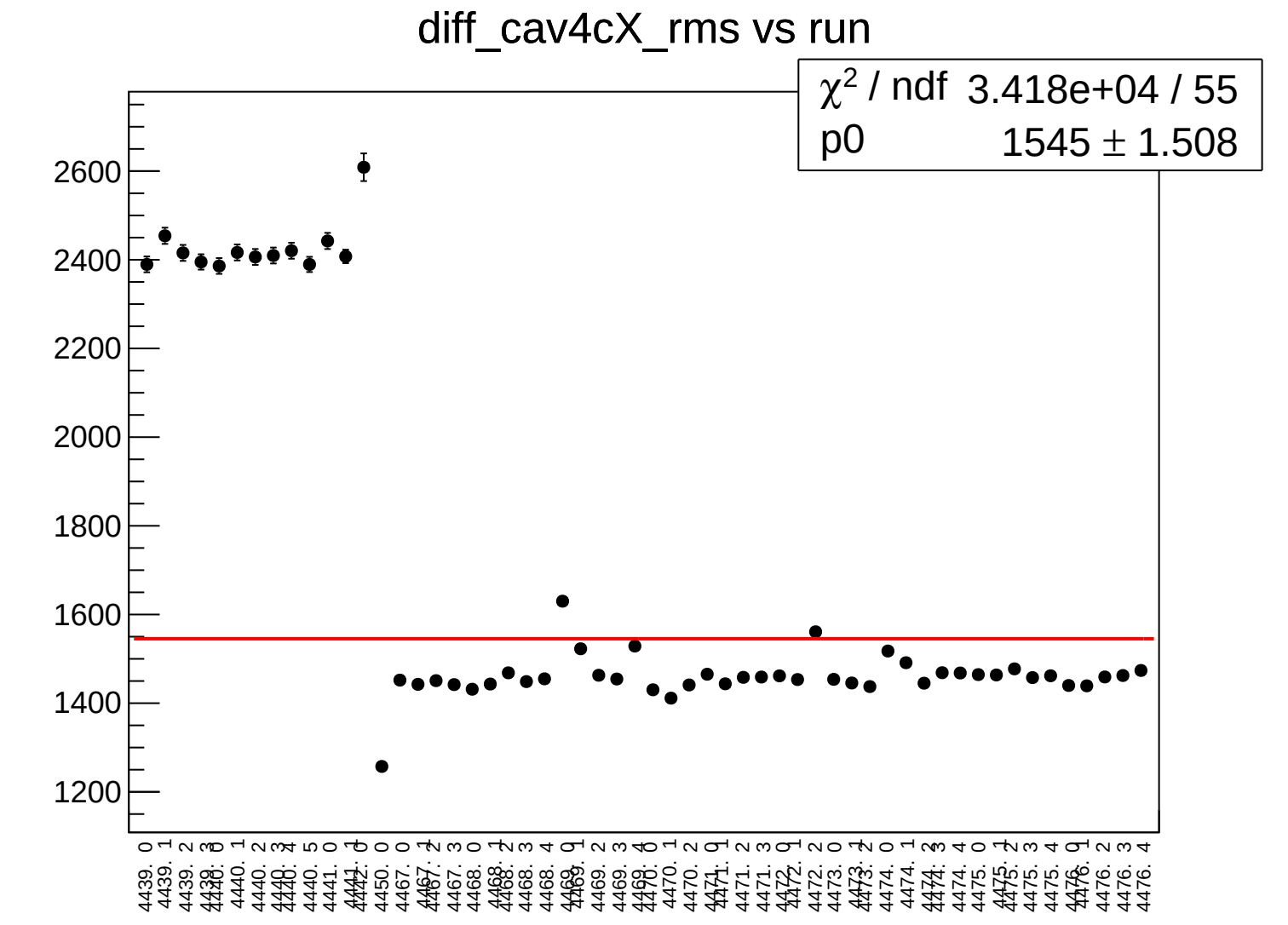

diff_cav4bY_mean vs run
χ² / ndf 58.68 / 55
p0 −3.555 ± 3.656
pull
Entries 56
Mean 30.06
Std Dev 19.03

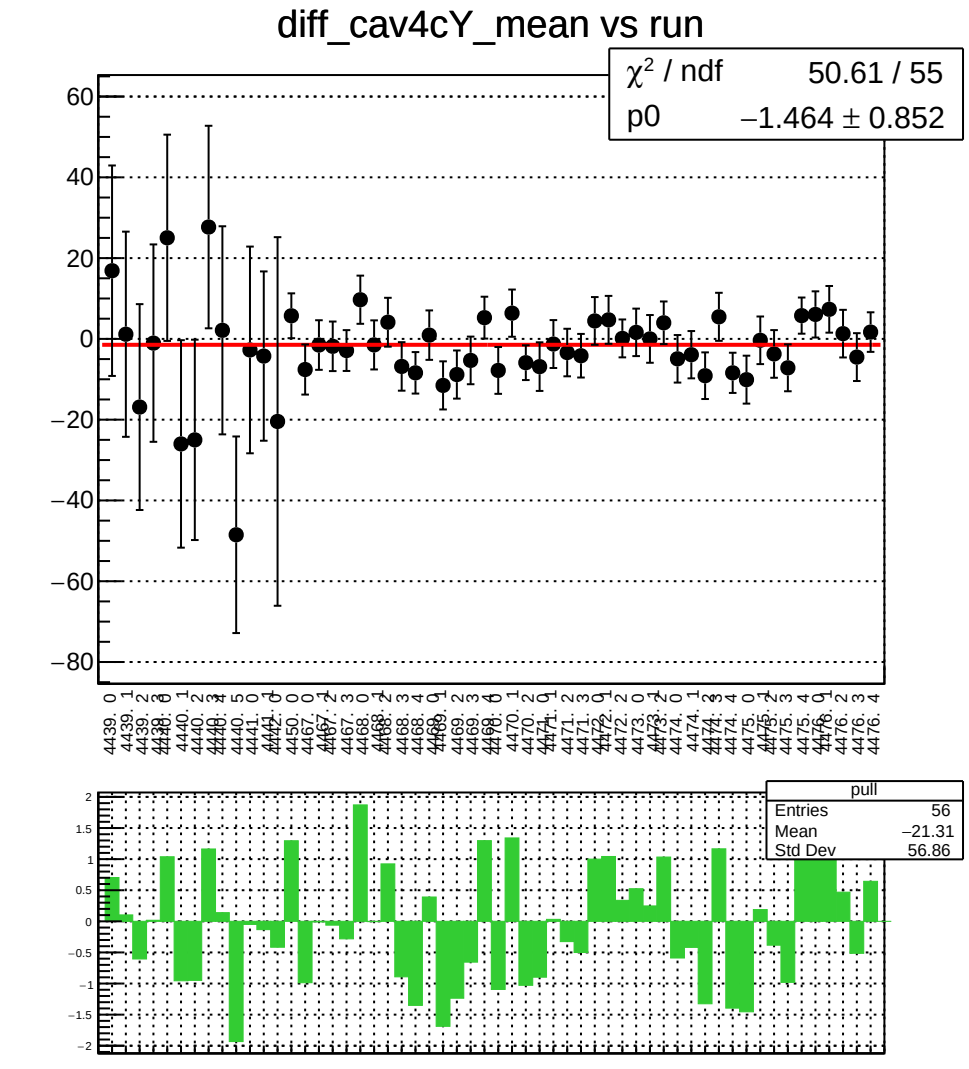

pull1D
Entries 56
Mean 0.1453
Std Dev 1.013

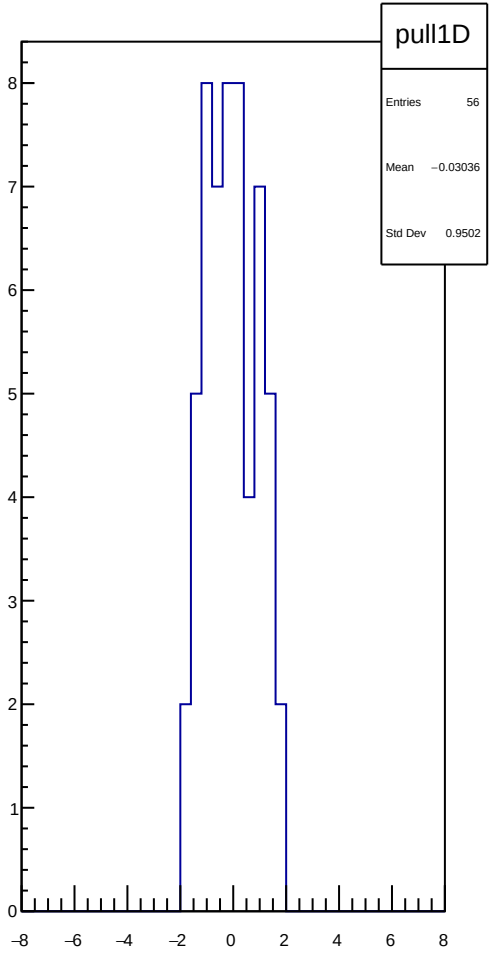

diff_cav4bY_rms vs run
×10^3
χ^2 / ndf 9.166e+05 / 55
p0 1061 ± 2.585
120
100
80
60
40
20

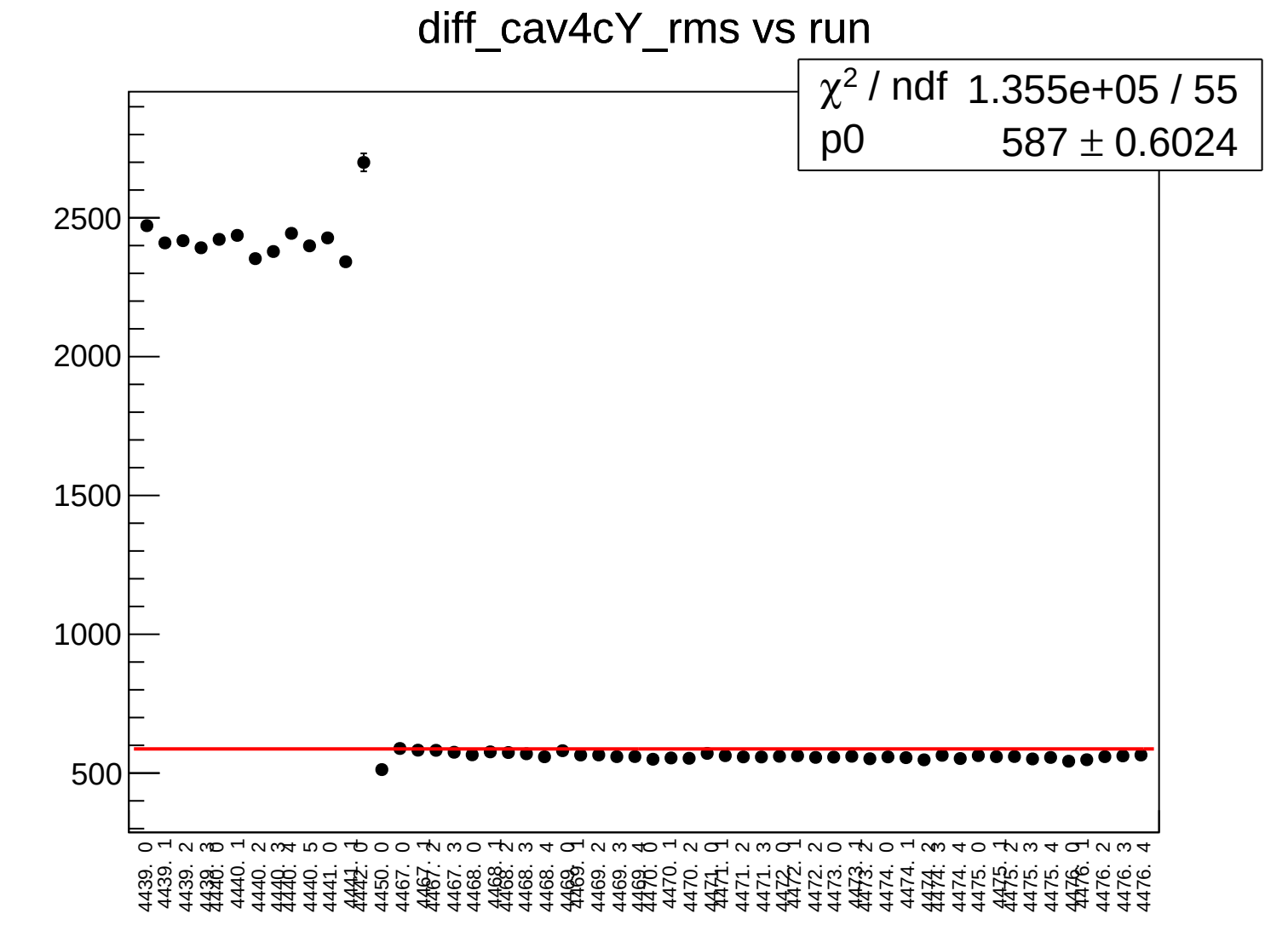

diff_cav4cX_mean vs run
χ² / ndf 60.42 / 55
p0 3.061 ± 2.132
pull
Entries 56
Mean −54.94
Std Dev 84.06

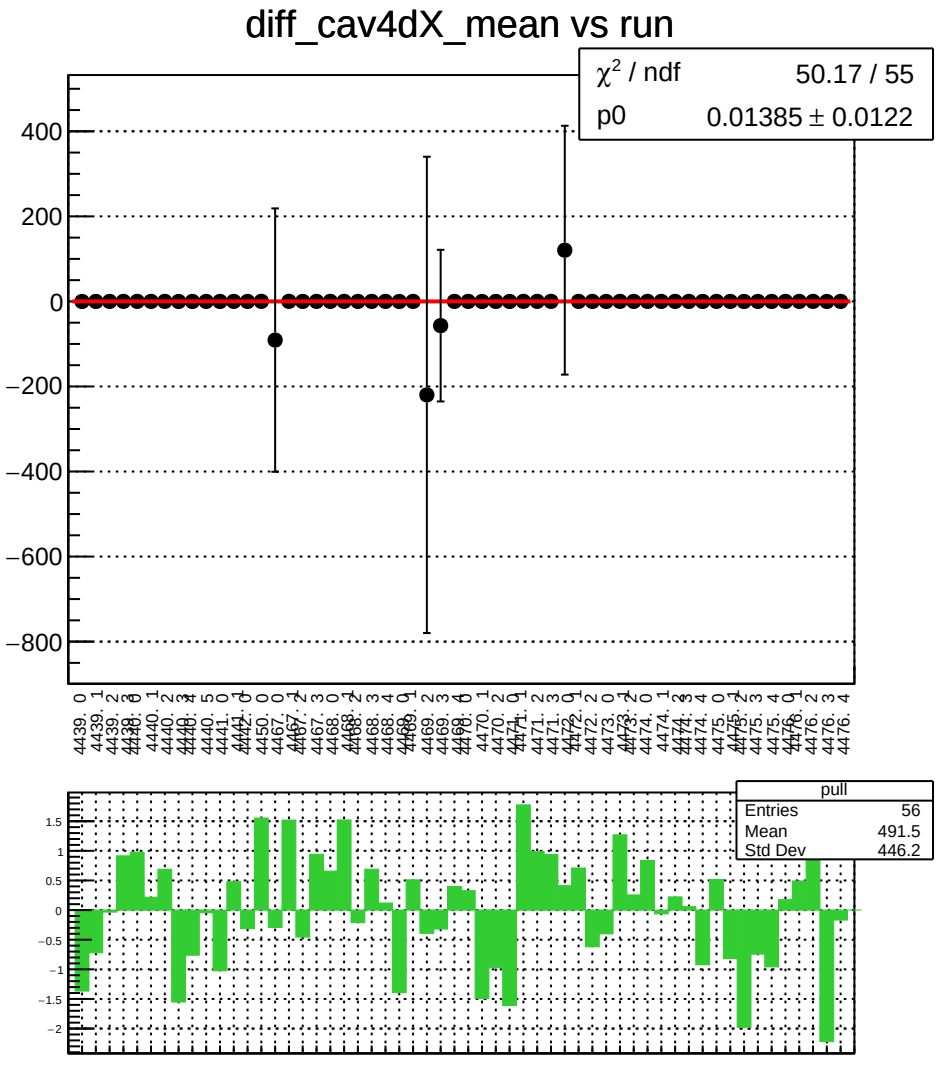

pull1D
Entries 56
Mean 0.0415
Std Dev 1.038

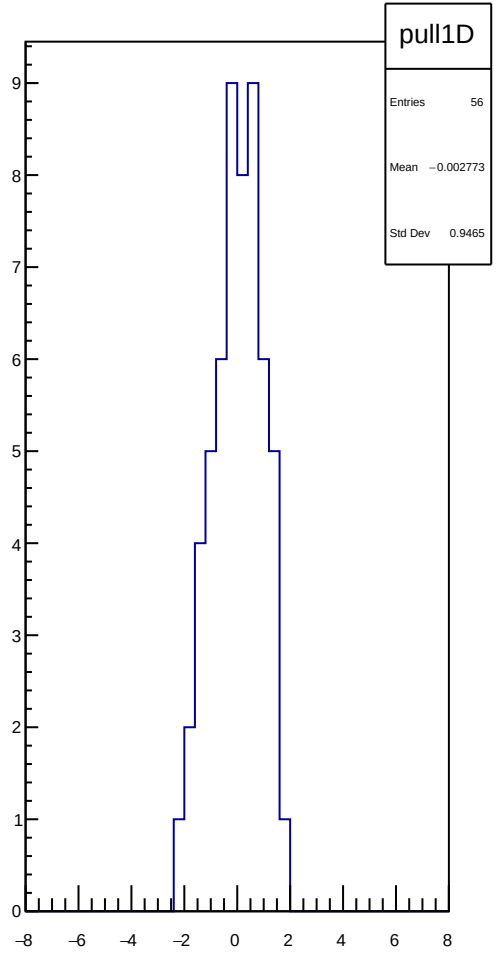

diff_cav4cX_rms vs run
χ² / ndf 3.418e+04 / 55
p0 1545 ± 1.508
2600
2400
2200
2000
1800
1600
1400
1200

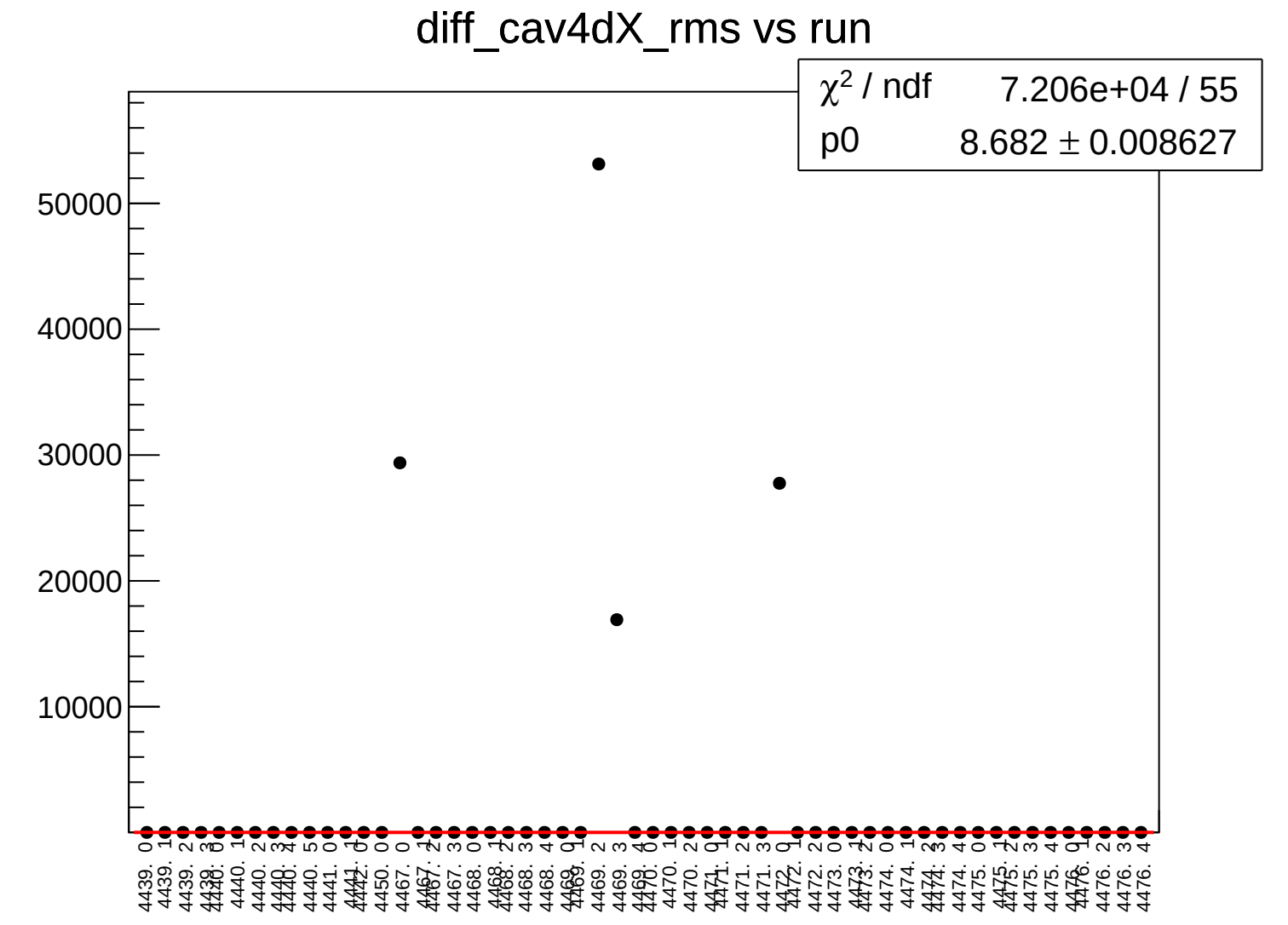

diff_cav4cY_mean vs run
χ² / ndf 50.61 / 55
p0 −1.464 ± 0.852
pull
Entries 56
Mean −21.31
Std Dev 56.86

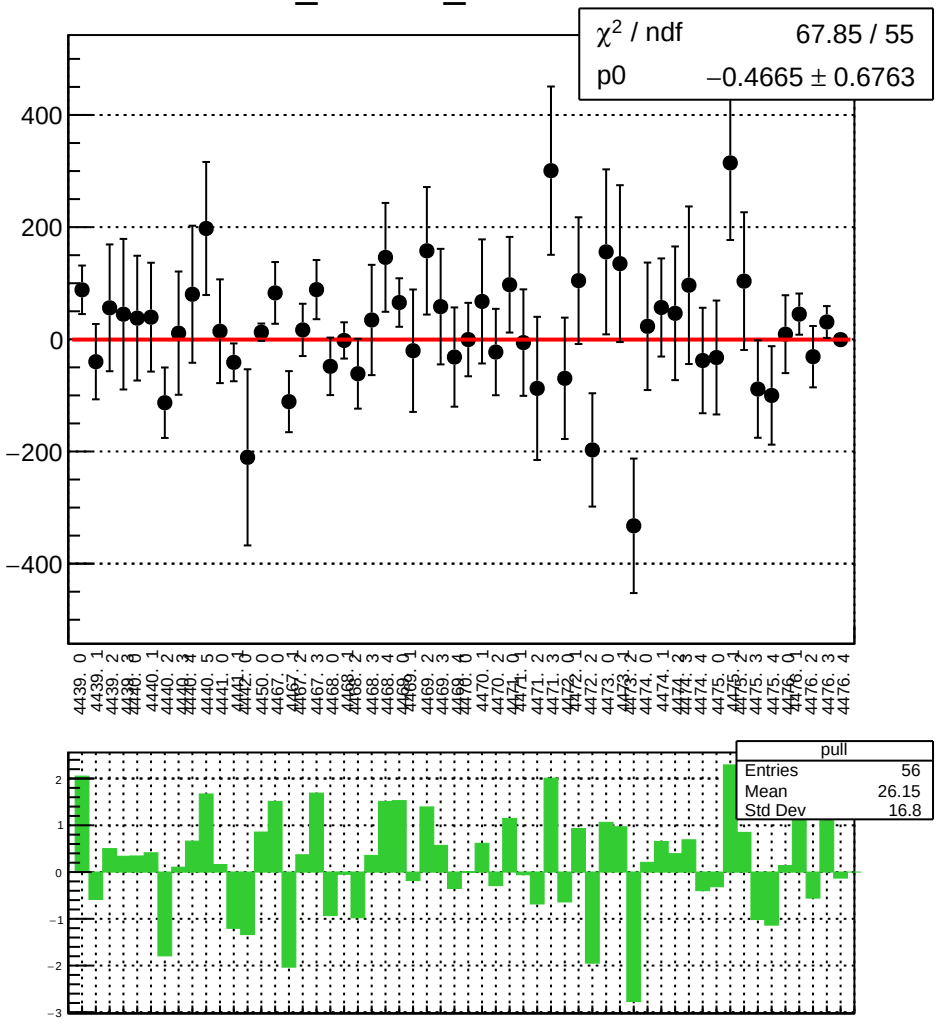

pull1D
Entries 56
Mean −0.03036
Std Dev 0.9502

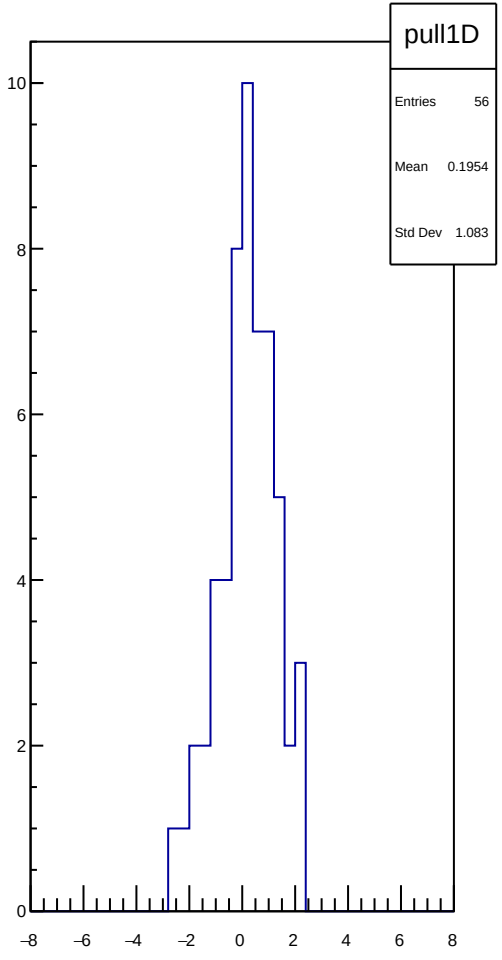

diff_cav4cY_rms vs run
χ² / ndf 1.355e+05 / 55
p0 587 ± 0.6024
2500
2000
1500
1000
500

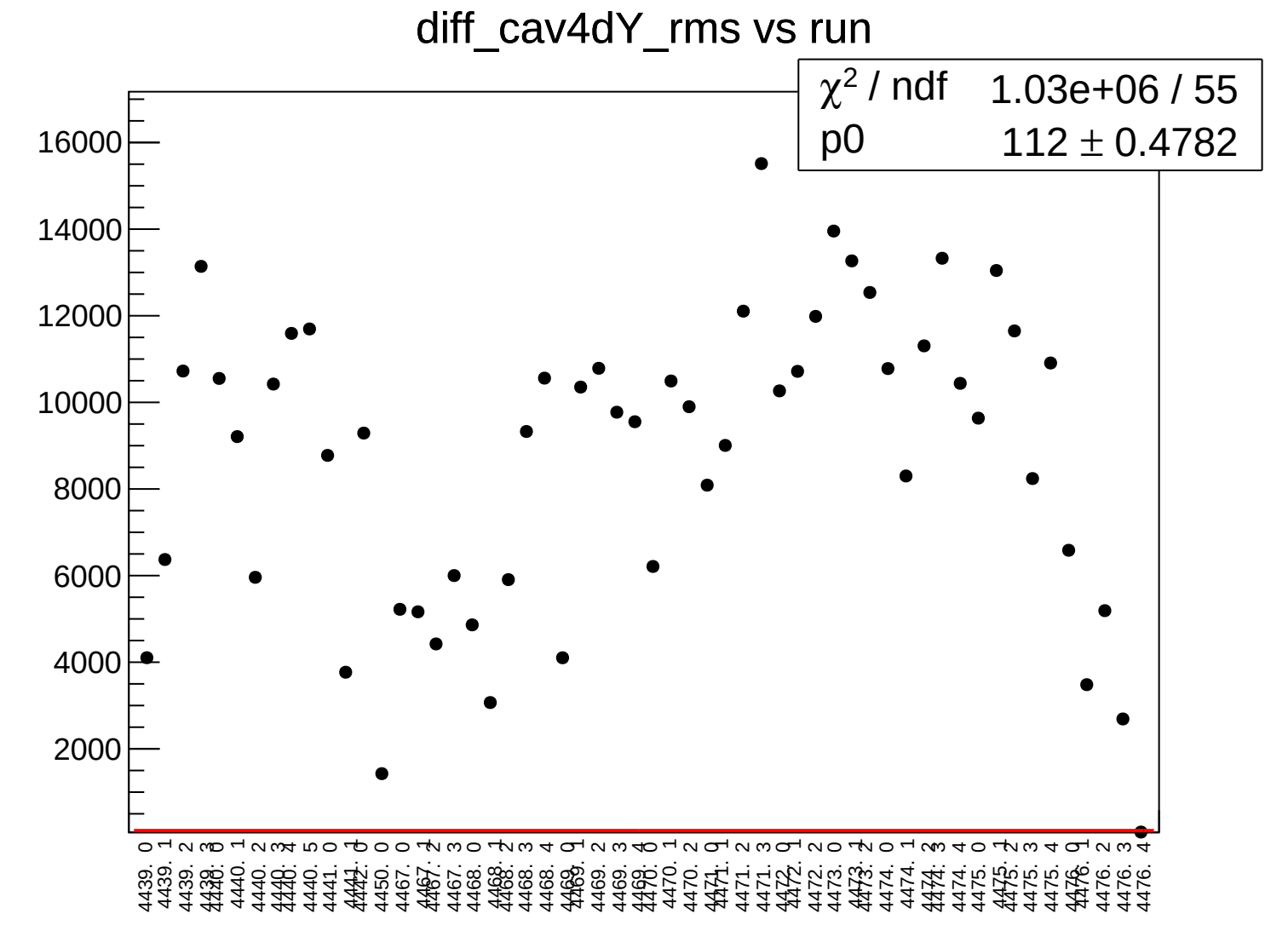

diff_cav4dX_mean vs run
χ^2 / ndf 50.17 / 55
p0 0.01385 ± 0.0122
400
200
0
−200
−400
−600
−800
pull
Entries 56
Mean 491.5
Std Dev 446.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

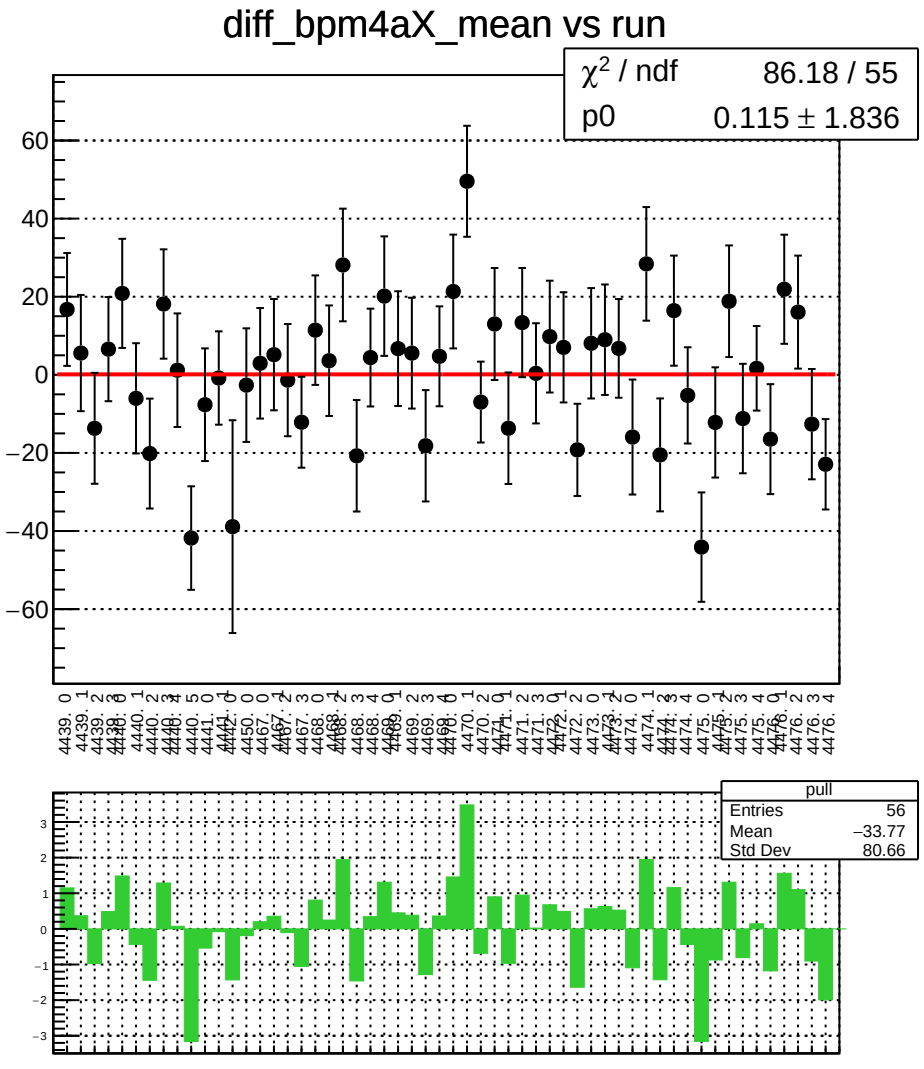

pull1D
Entries 56
Mean −0.002773
Std Dev 0.9465
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

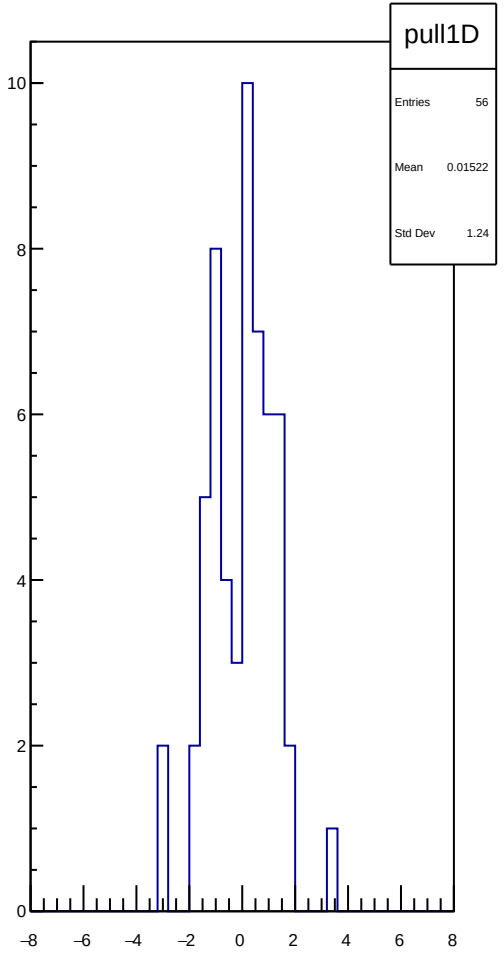

diff_cav4dX_rms vs run
χ^2 / ndf 7.206e+04 / 55
p0 8.682 ± 0.008627
50000
40000
30000
20000
10000
4439. 0
4439. 1
4439. 2
4439. 3
4440. 1
4440. 2
4440. 3
4440. 5
4441. 0
4441. 1
4450. 0
4467. 0
4467. 1
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 2
4469. 3
4470. 1
4470. 2
4471. 1
4471. 2
4471. 3
4472. 1
4472. 2
4473. 0
4474. 0
4474. 1
4474. 3
4474. 4
4475. 0
4475. 3
4475. 4
4476. 1
4476. 2
4476. 3
4476. 4

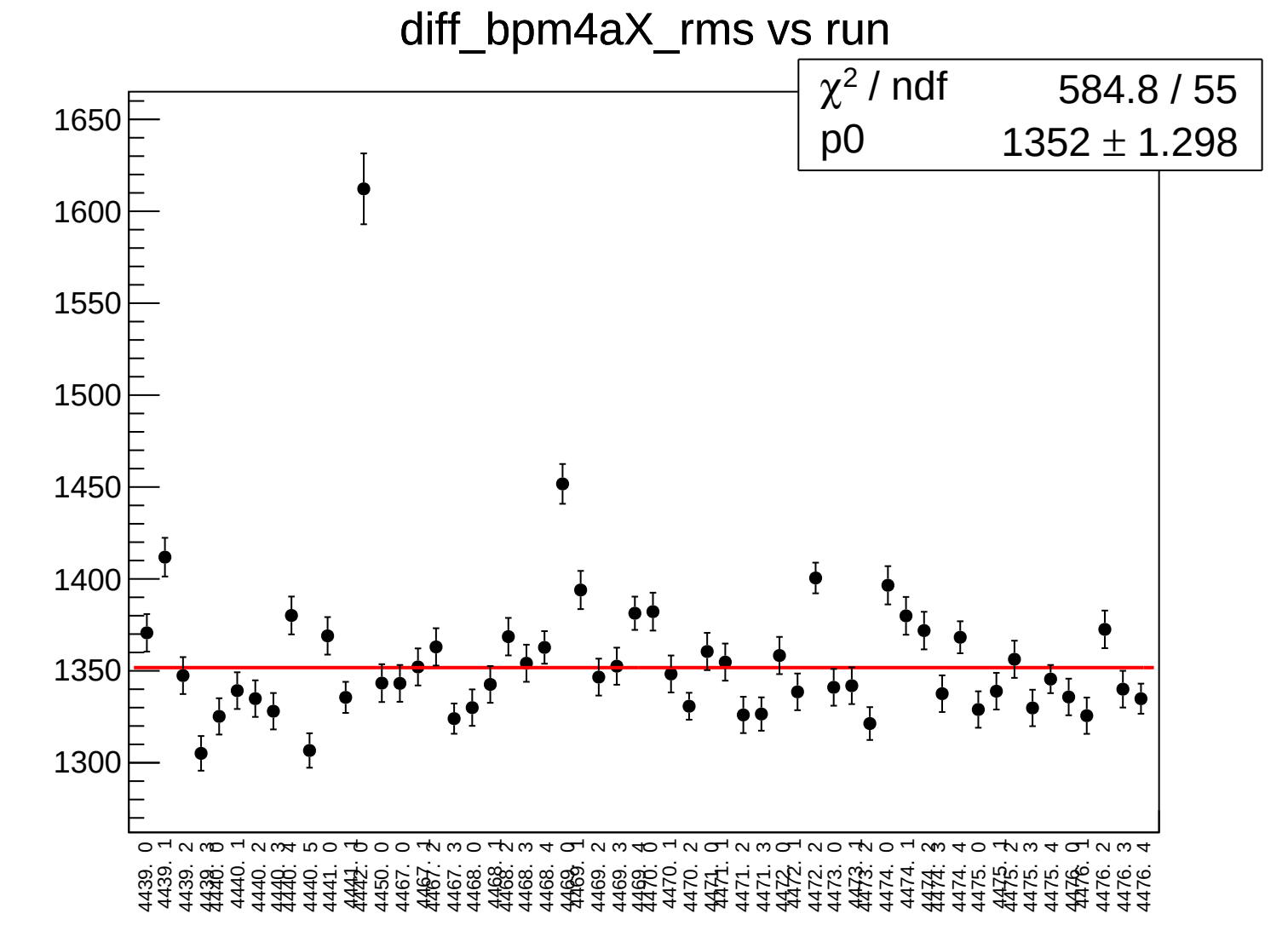

diff_cav4dY_mean vs run
χ² / ndf 67.85 / 55
p0 −0.4665 ± 0.6763
pull
Entries 56
Mean 26.15
Std Dev 16.8

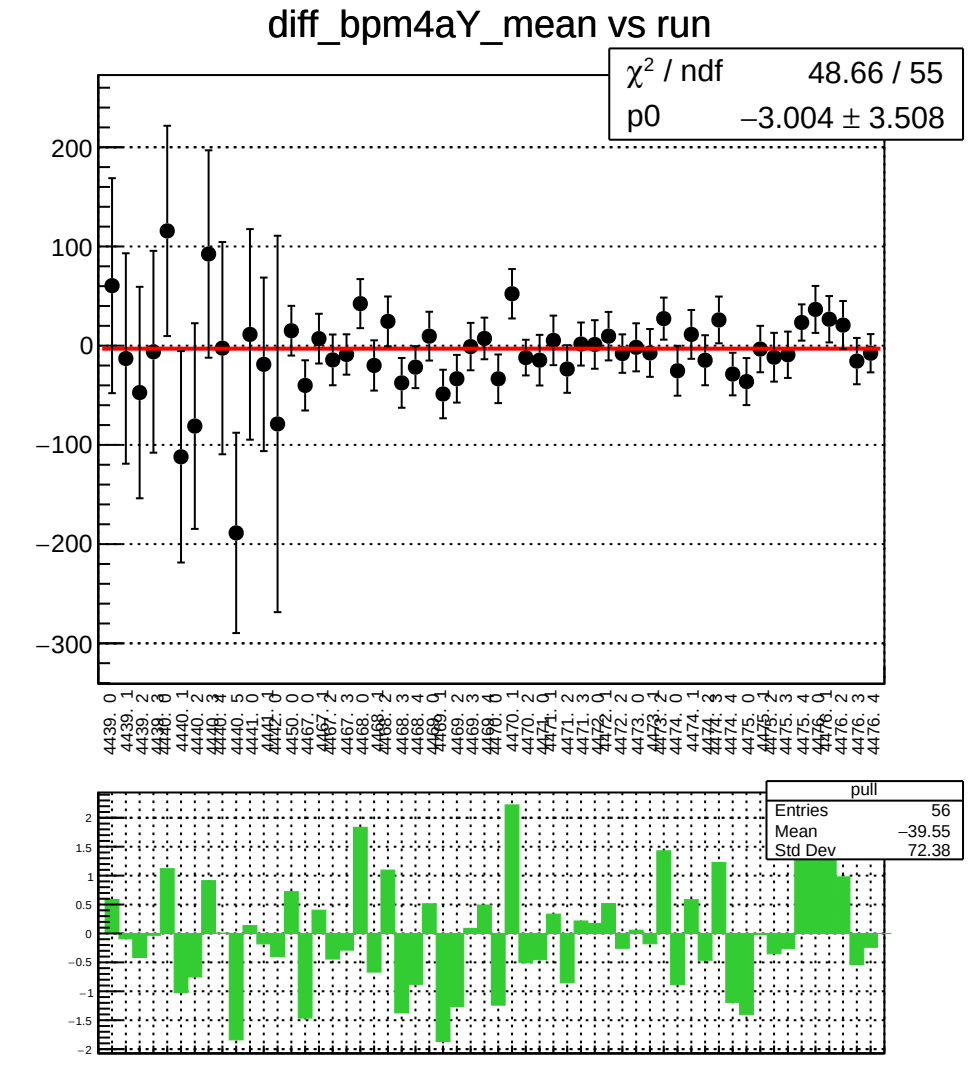

pull1D
Entries 56
Mean 0.1954
Std Dev 1.083

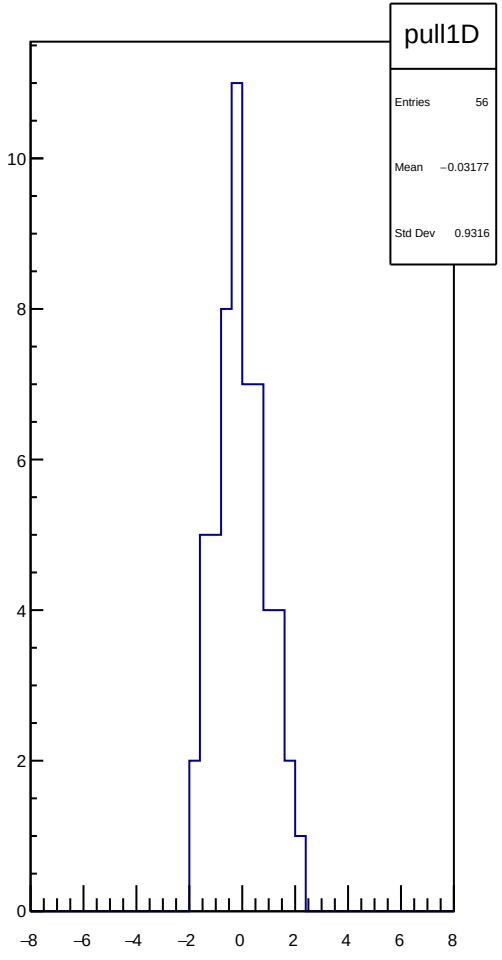

diff_cav4dY_rms vs run
χ² / ndf 1.03e+06 / 55
p0 112 ± 0.4782
16000
14000
12000
10000
8000
6000
4000
2000

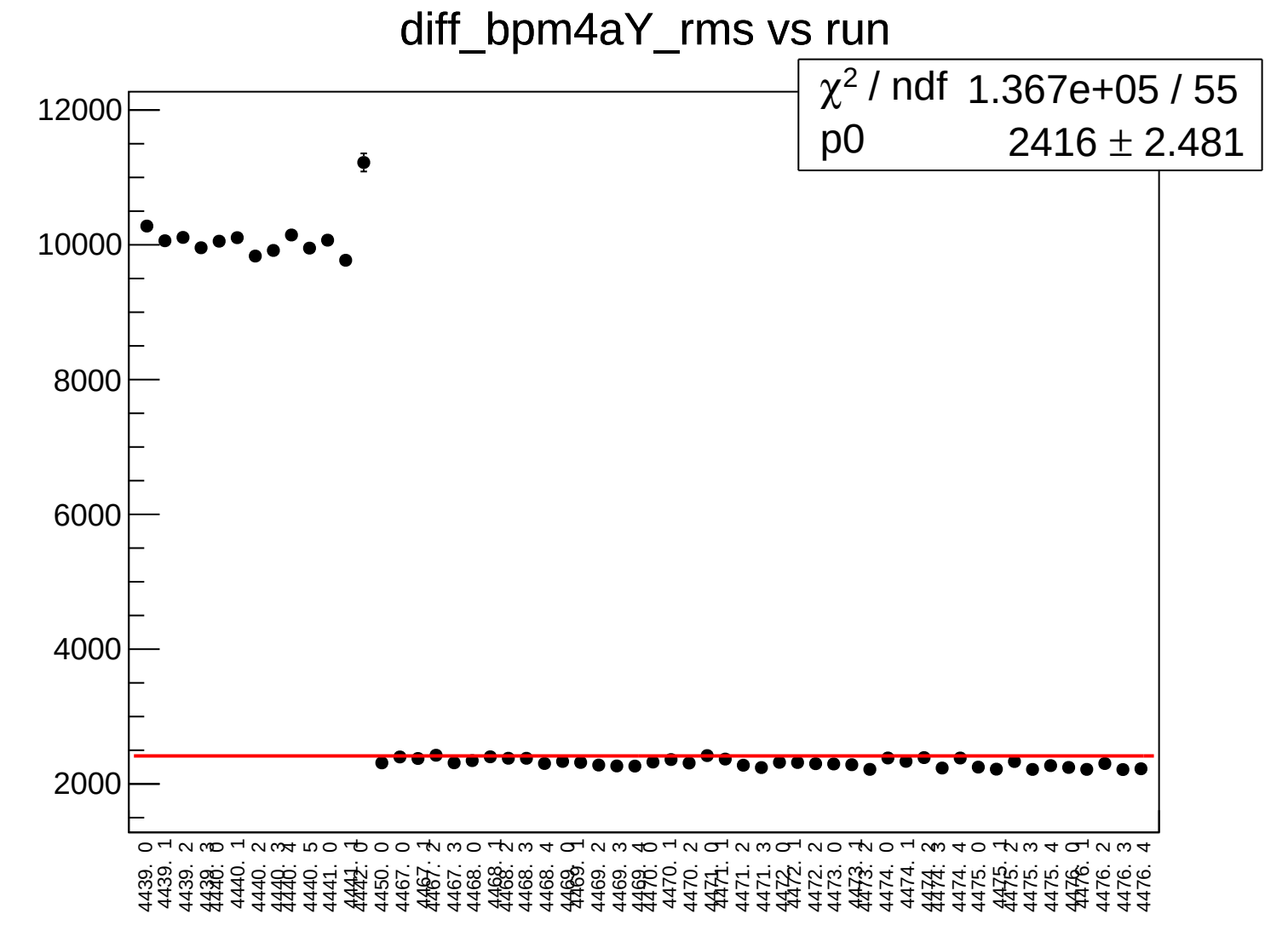

diff_bpm4aX_mean vs run
χ² / ndf 86.18 / 55
p0 0.115 ± 1.836
pull
Entries 56
Mean −33.77
Std Dev 80.66

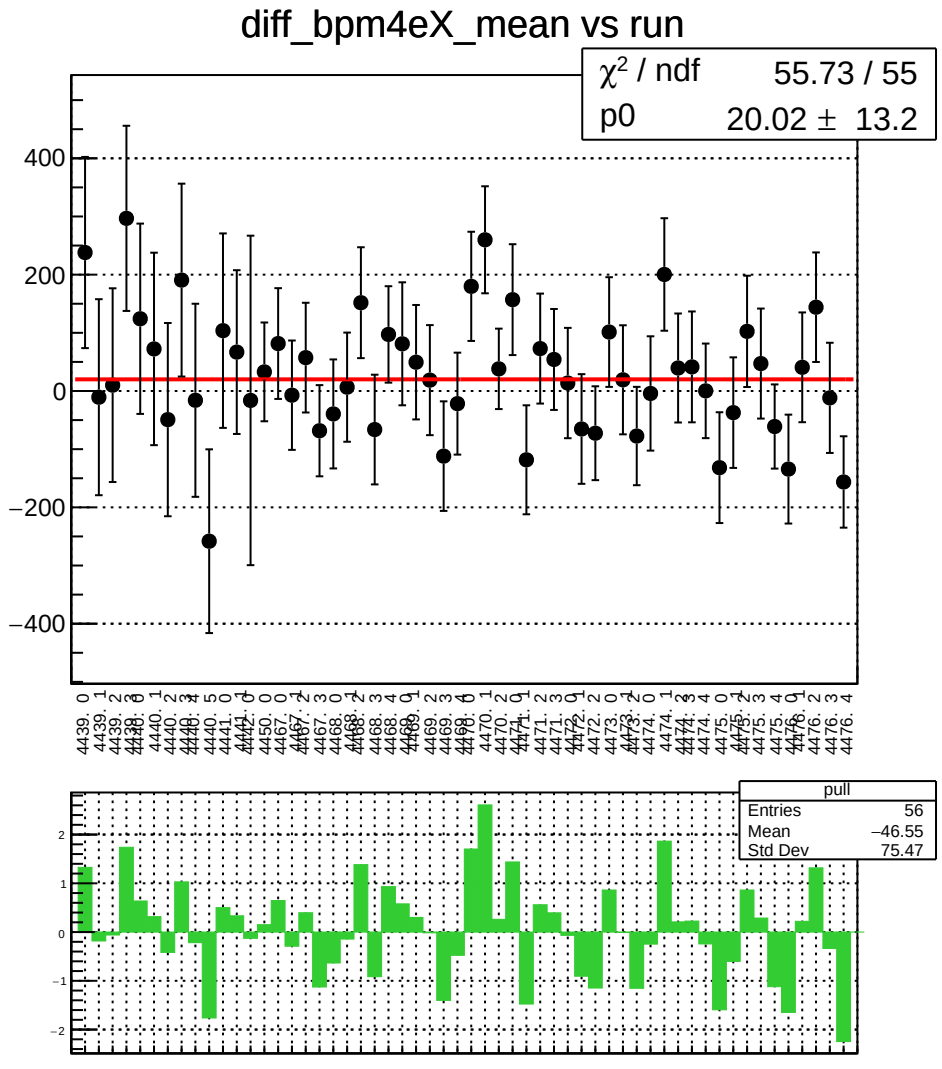

pull1D
Entries 56
Mean 0.01522
Std Dev 1.24

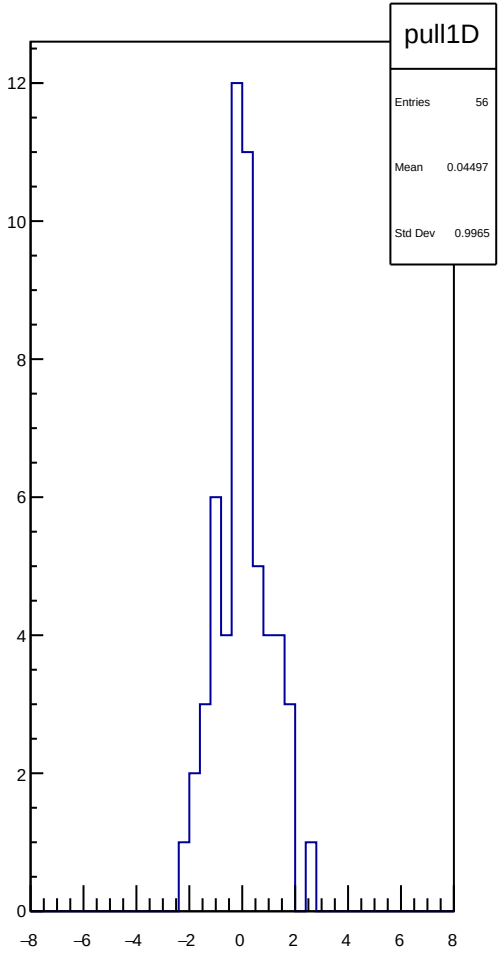

diff_bpm4aX_rms vs run
χ² / ndf 584.8 / 55
p0 1352 ± 1.298
1650
1600
1550
1500
1450
1400
1350
1300

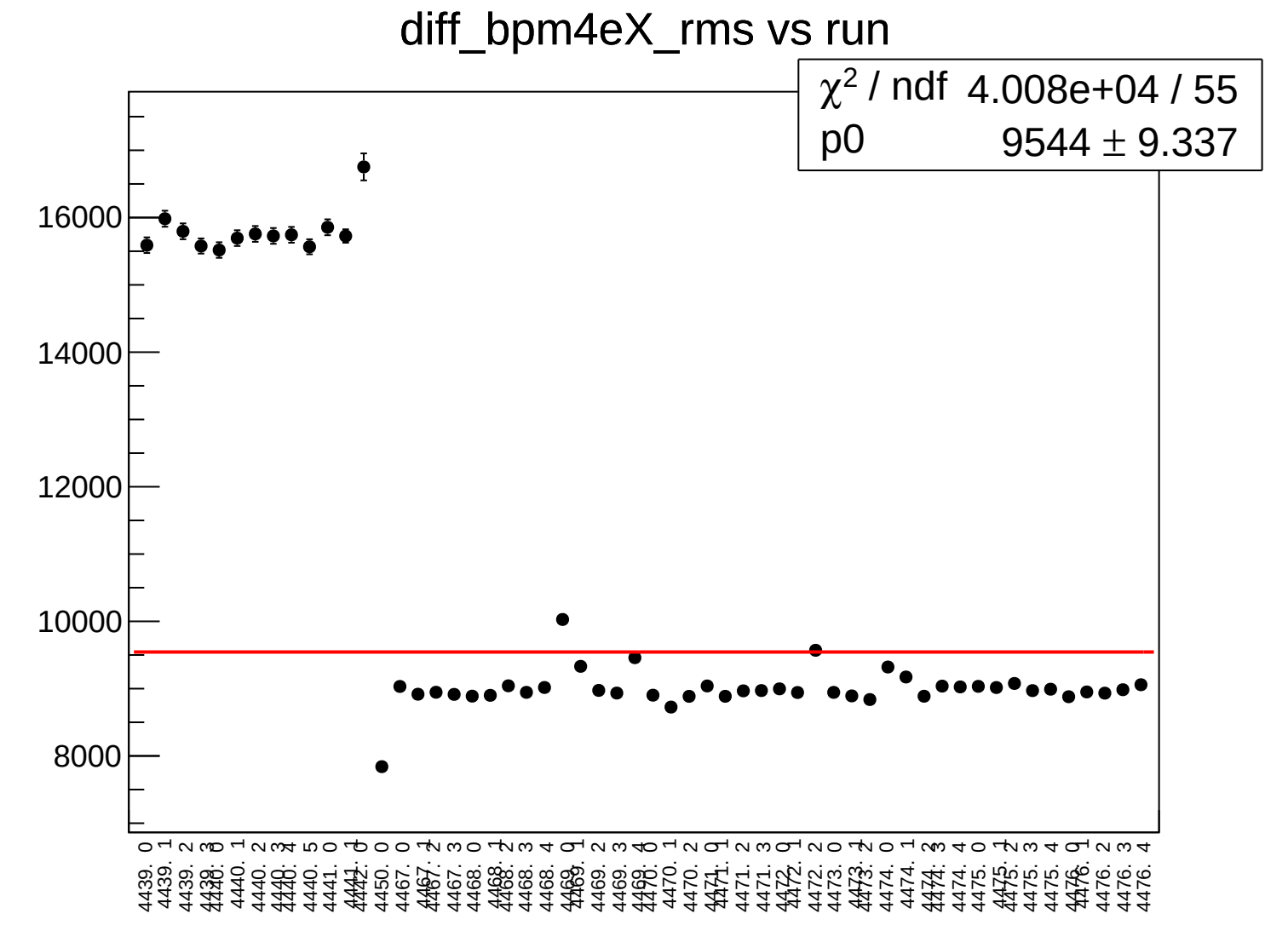

diff_bpm4aY_mean vs run
χ² / ndf 48.66 / 55
p0 −3.004 ± 3.508
pull
Entries 56
Mean −39.55
Std Dev 72.38

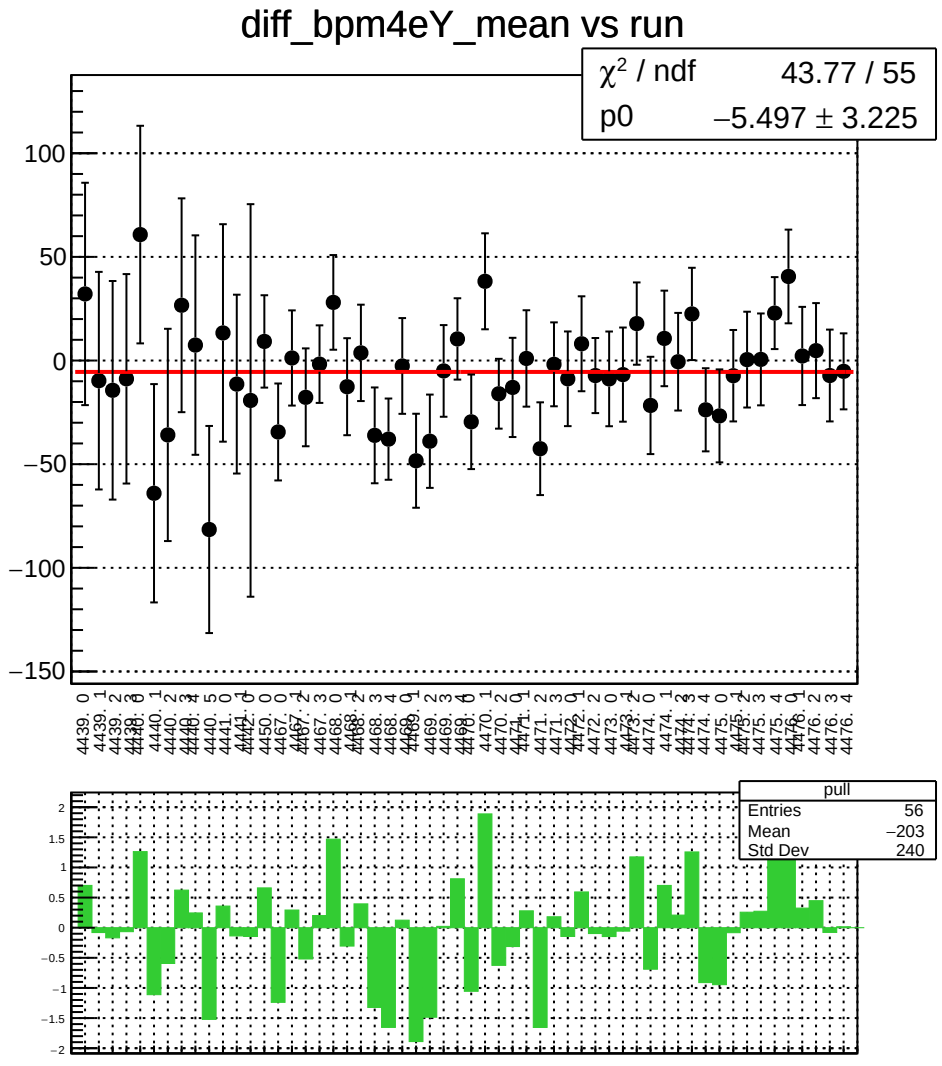

pull1D
Entries 56
Mean −0.03177
Std Dev 0.9316

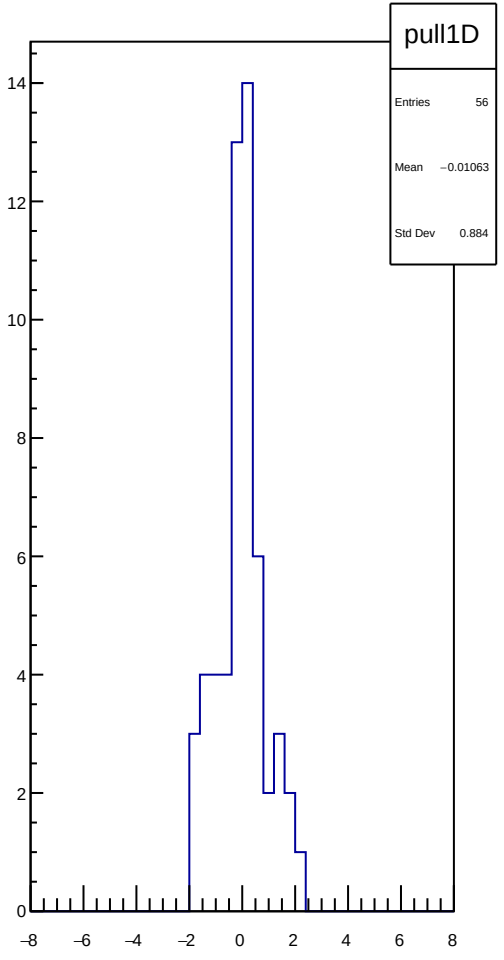

diff_bpm4aY_rms vs run
χ² / ndf 1.367e+05 / 55
p0 2416 ± 2.481
12000
10000
8000
6000
4000
2000
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

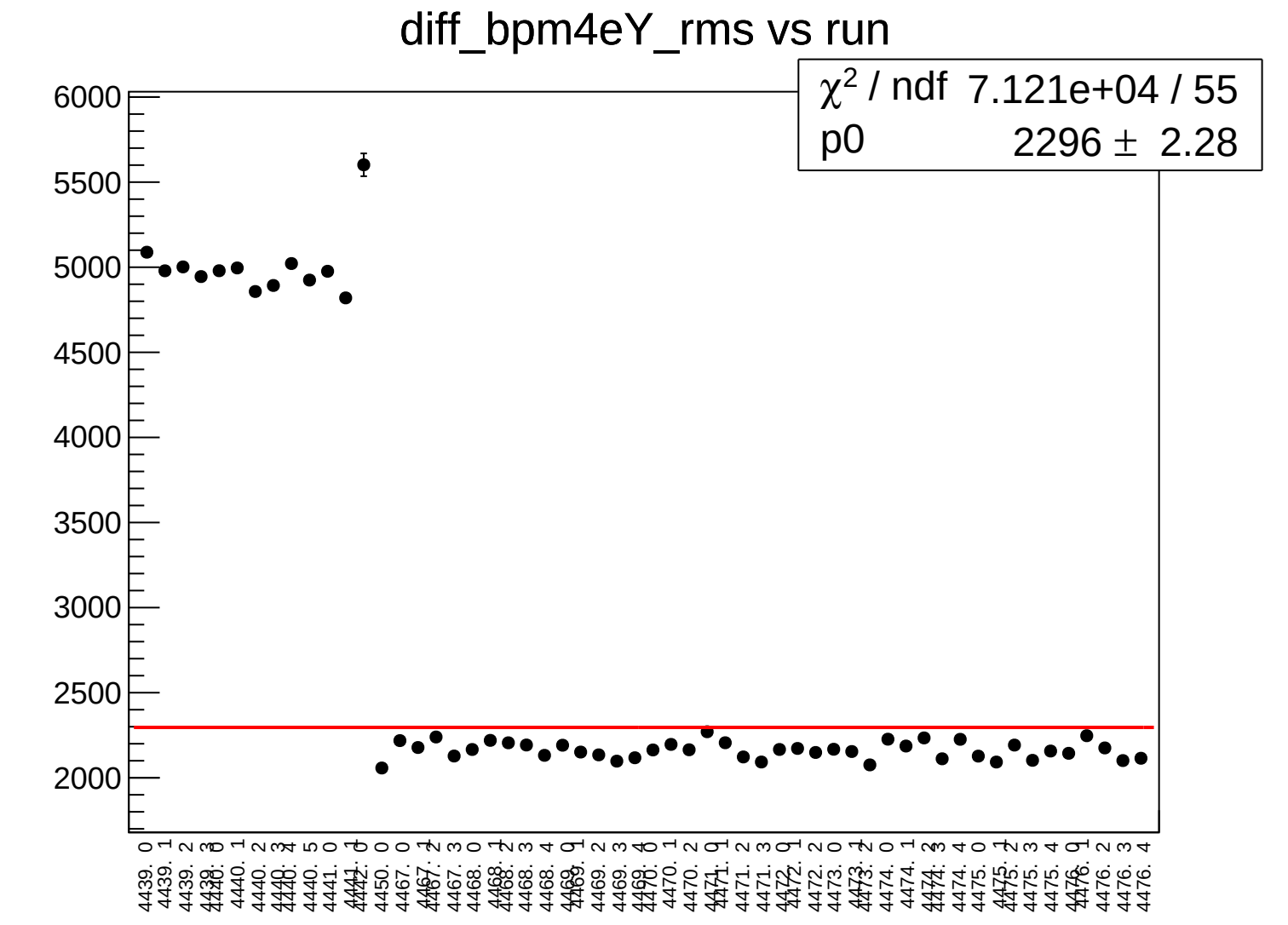

diff_bpm4eX_mean vs run
χ² / ndf 55.73 / 55
p0 20.02 ± 13.2
400
200
0
−200
−400
pull
Entries 56
Mean −46.55
Std Dev 75.47
2
1
0
−1
−2

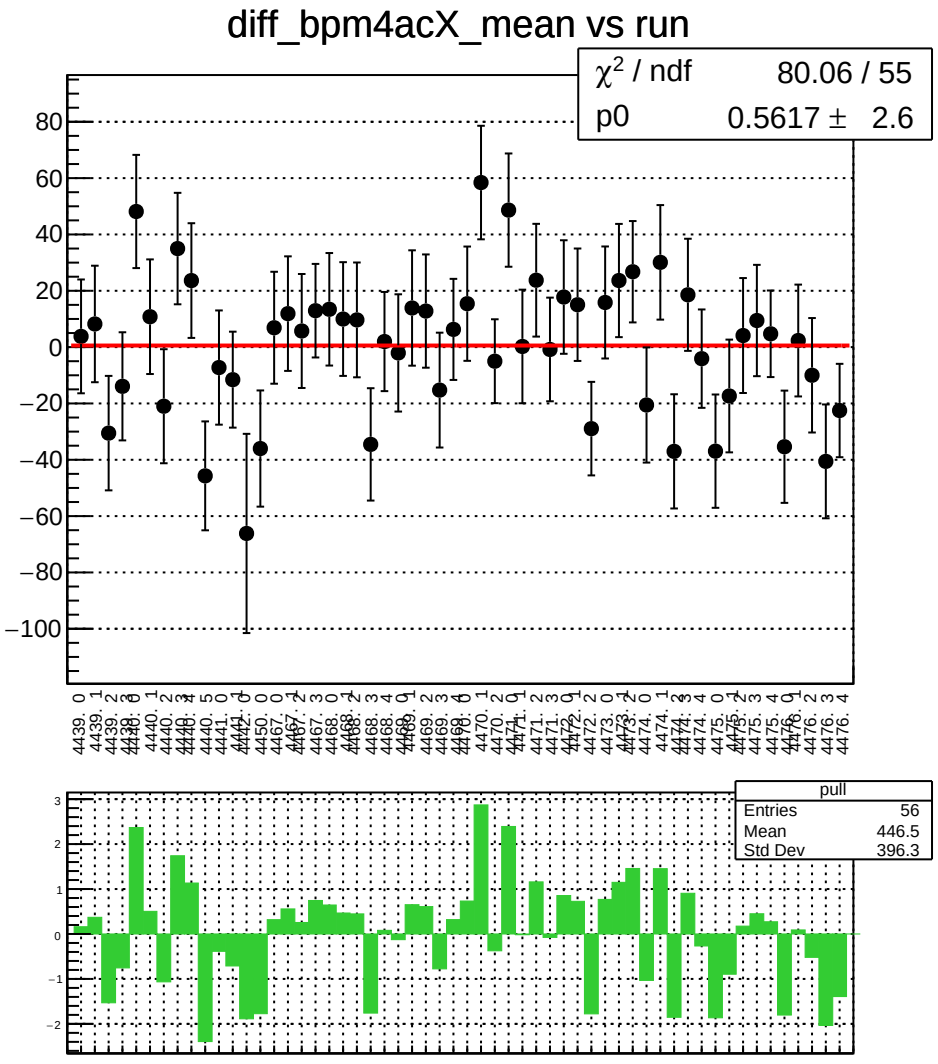

pull1D
Entries 56
Mean 0.04497
Std Dev 0.9965
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

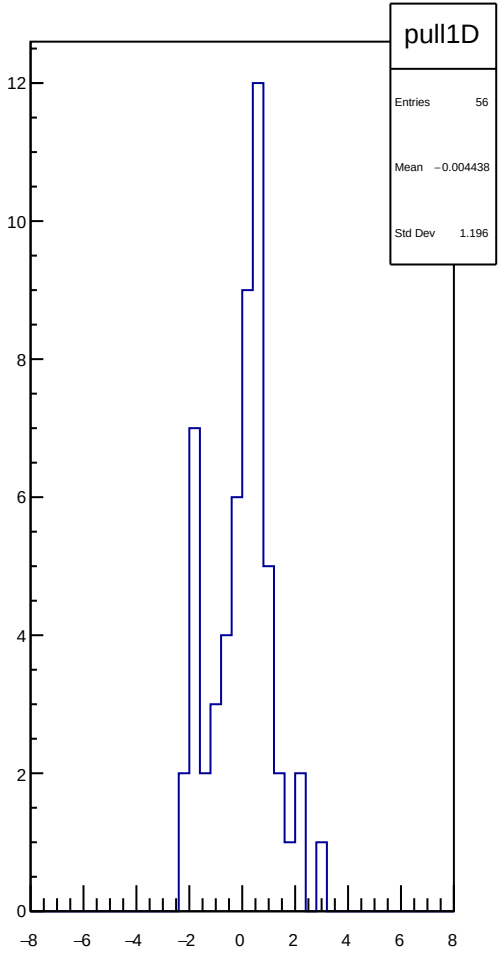

diff_bpm4eX_rms vs run
χ² / ndf 4.008e+04 / 55
p0 9544 ± 9.337
16000
14000
12000
10000
8000

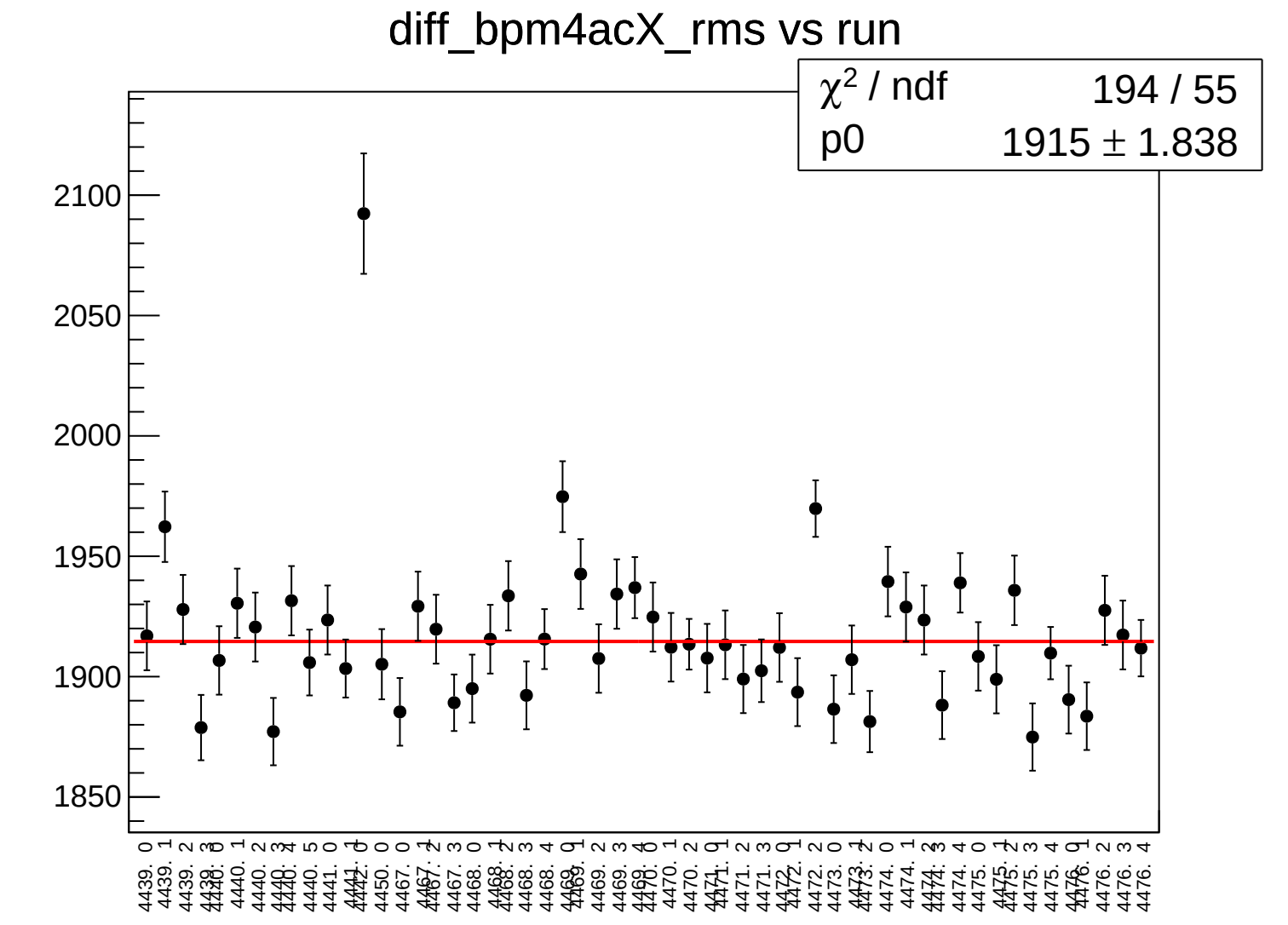

diff_bpm4eY_mean vs run
χ² / ndf 43.77 / 55
p0 −5.497 ± 3.225
pull
Entries 56
Mean −203
Std Dev 240

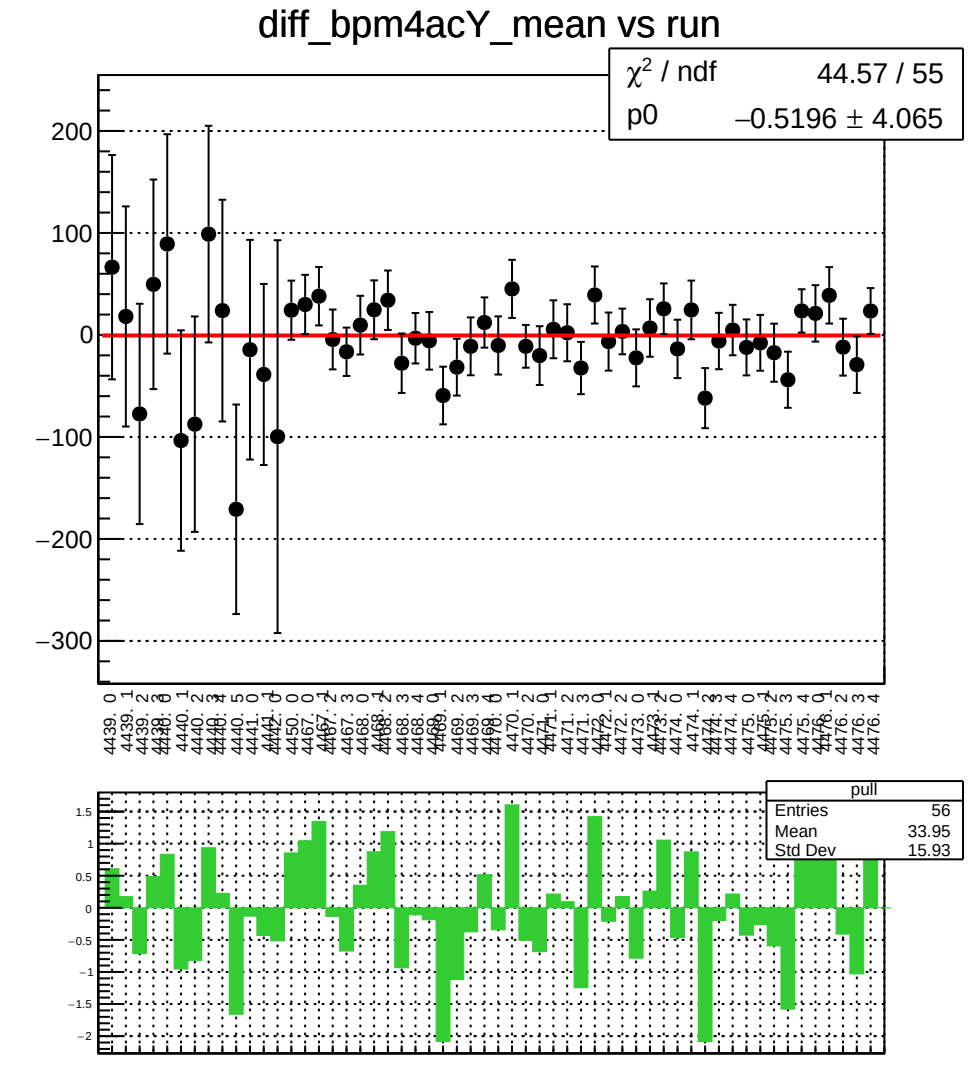

pull1D
Entries 56
Mean −0.01063
Std Dev 0.884

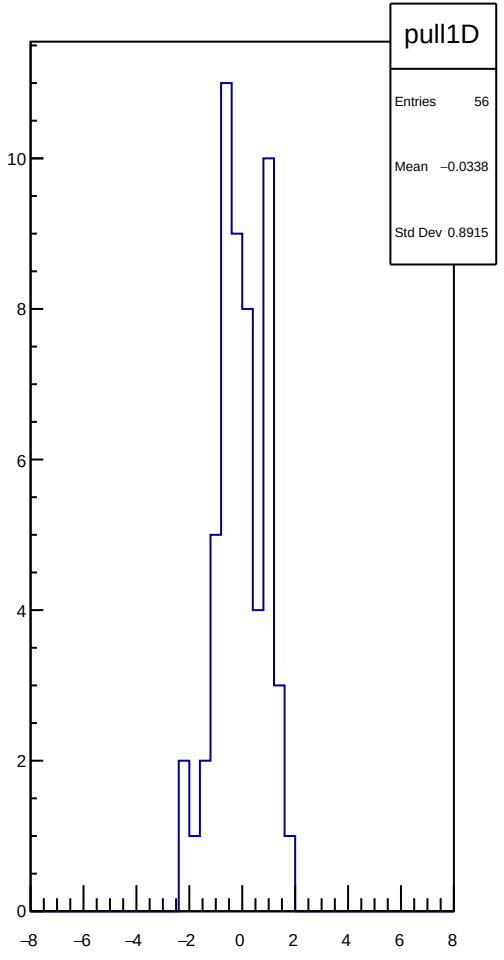

diff_bpm4eY_rms vs run
χ² / ndf 7.121e+04 / 55
p0 2296 ± 2.28
6000
5500
5000
4500
4000
3500
3000
2500
2000

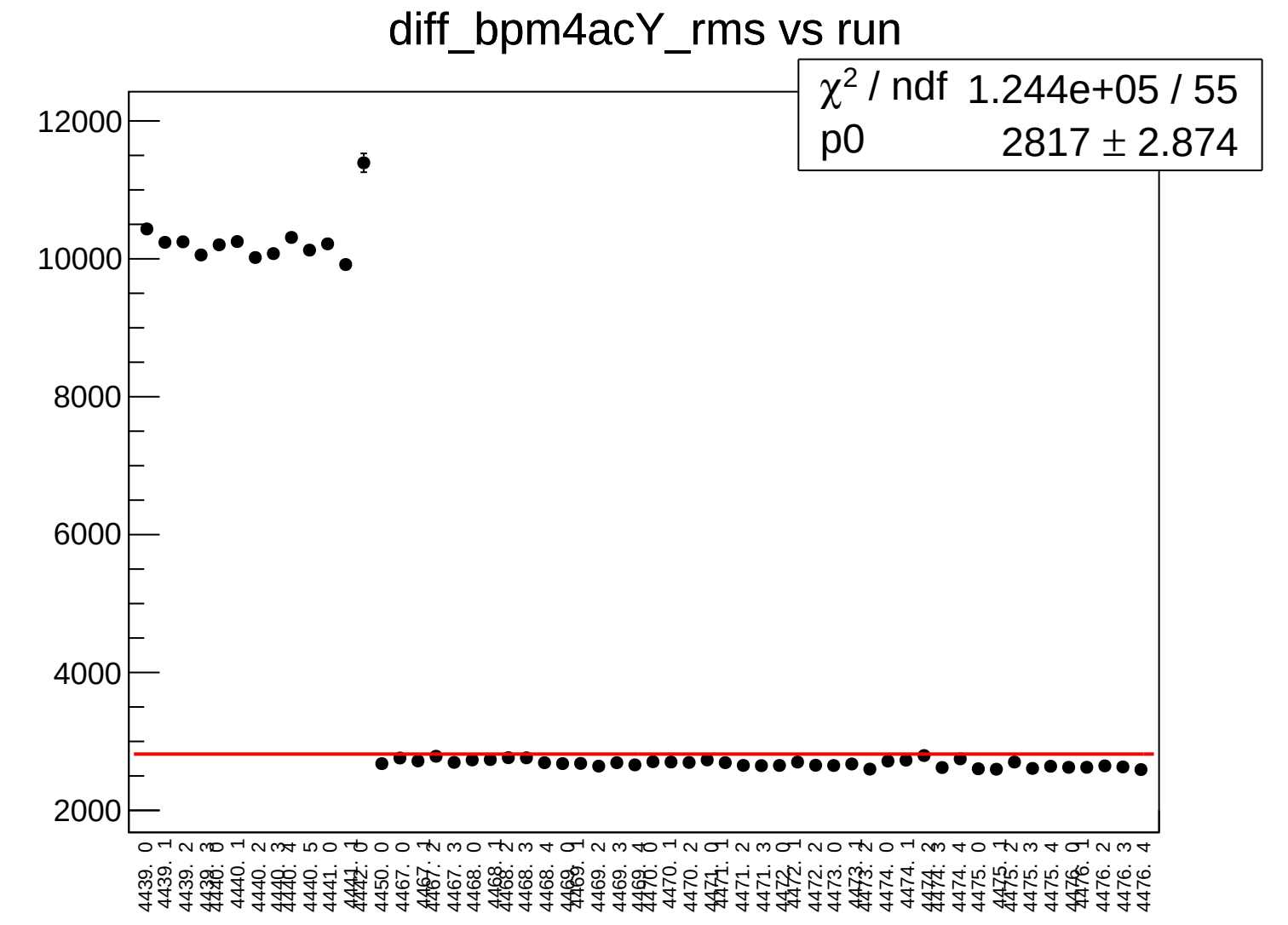

diff_bpm4acX_mean vs run
χ^2 / ndf 80.06 / 55
p0 0.5617 ± 2.6
pull
Entries 56
Mean 446.5
Std Dev 396.3

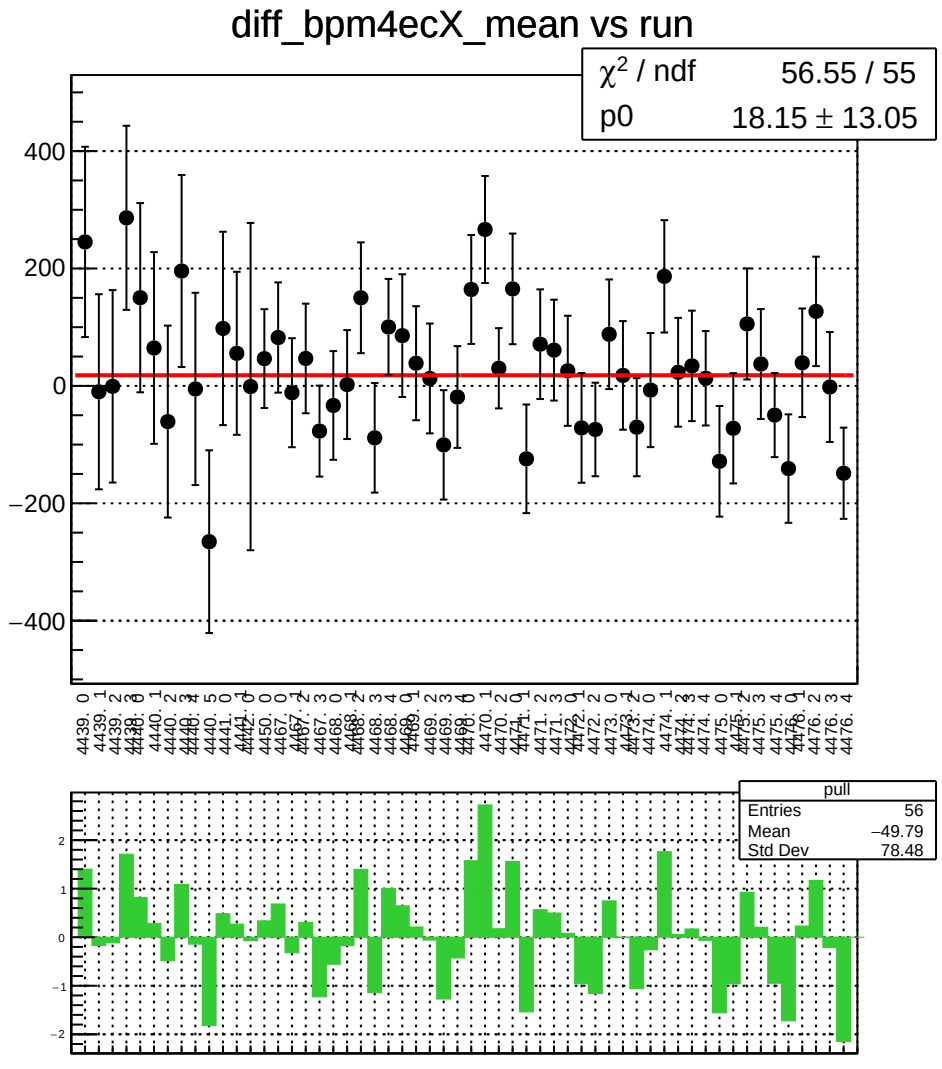

pull1D
Entries 56
Mean −0.004438
Std Dev 1.196

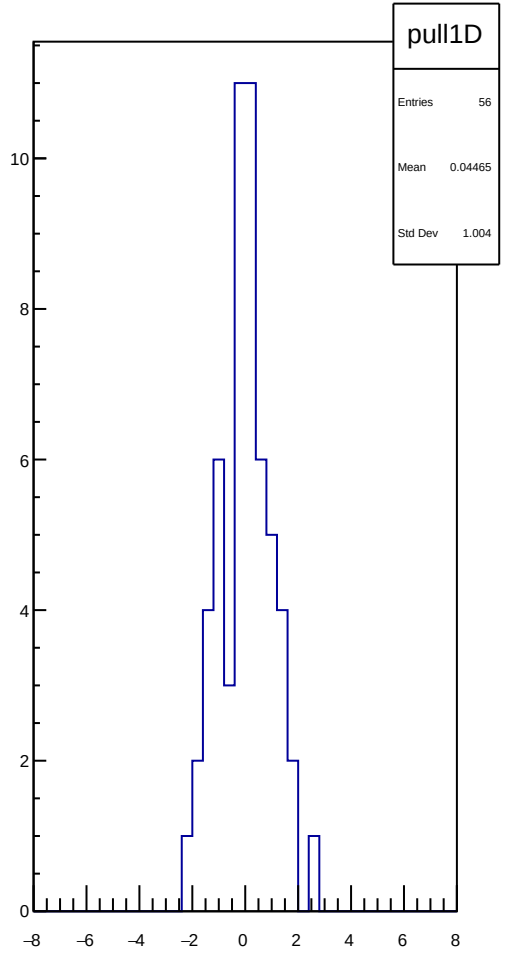

diff_bpm4acX_rms vs run
χ² / ndf 194 / 55
p0 1915 ± 1.838
2100
2050
2000
1950
1900
1850

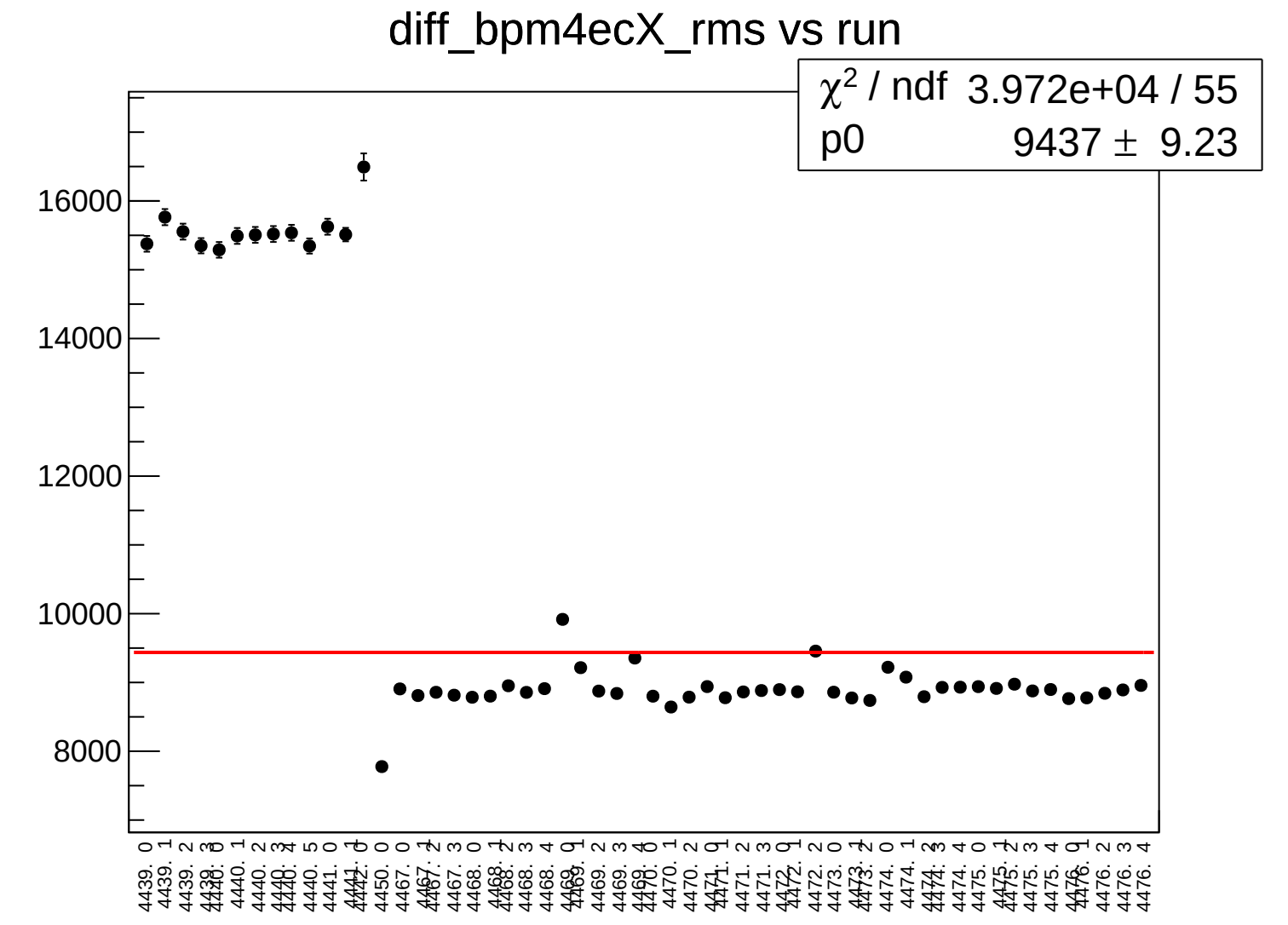

diff_bpm4acY_mean vs run
χ² / ndf 44.57 / 55
p0 −0.5196 ± 4.065
200
100
0
−100
−200
−300
pull
Entries 56
Mean 33.95
Std Dev 15.93
1.5
1
0.5
0
−0.5
−1
−1.5
−2

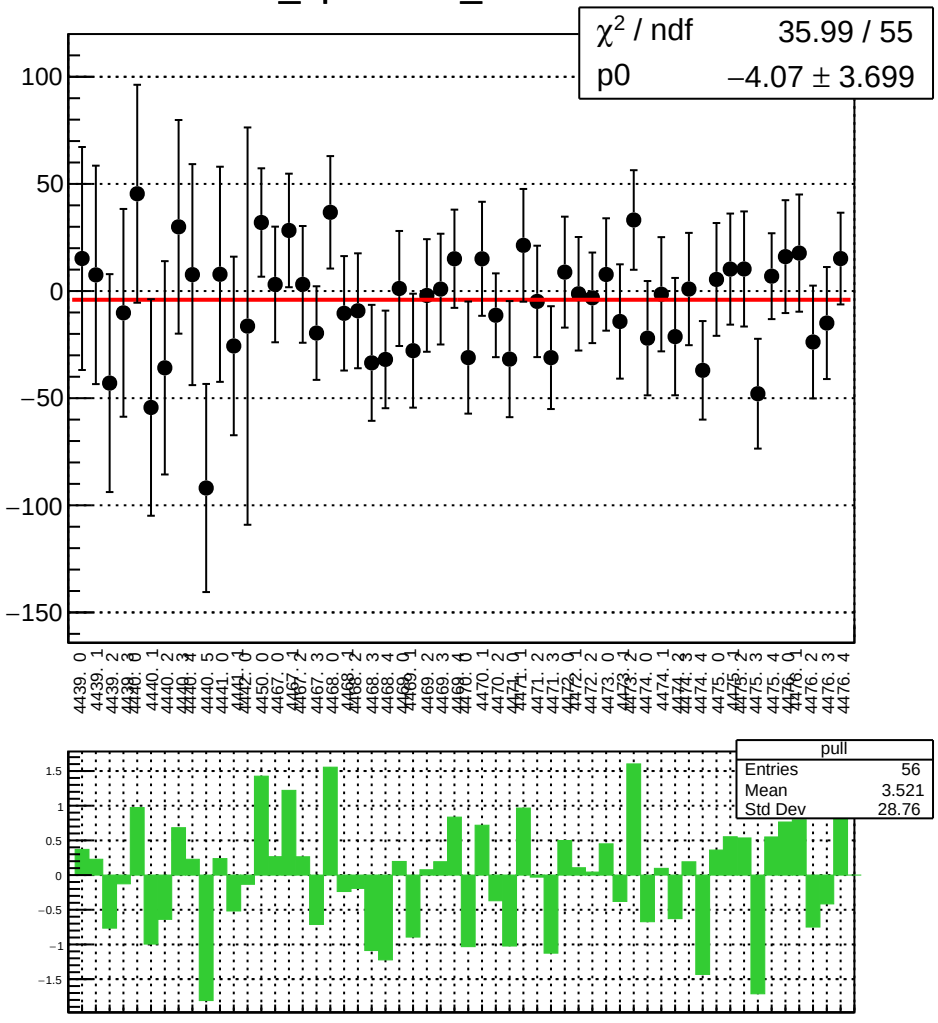

pull1D
Entries 56
Mean −0.0338
Std Dev 0.8915
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

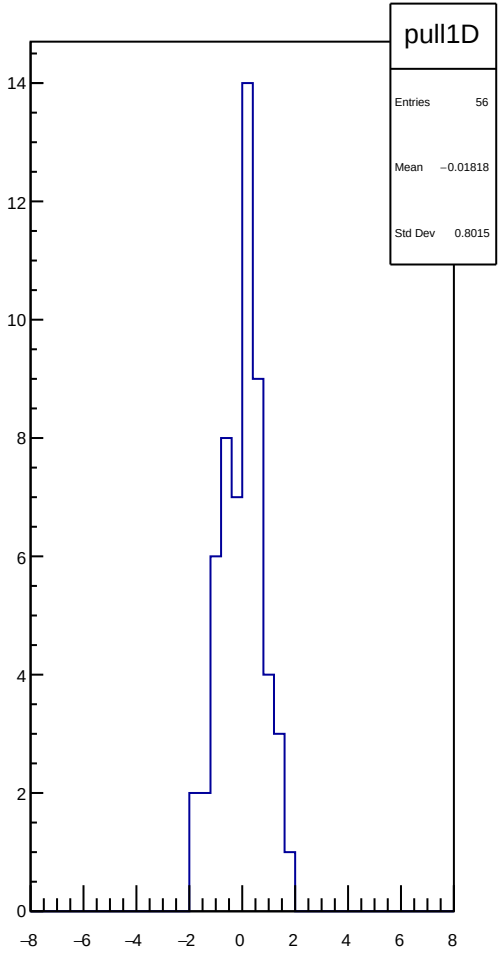

diff_bpm4acY_rms vs run
χ² / ndf 1.244e+05 / 55
p0 2817 ± 2.874
12000
10000
8000
6000
4000
2000

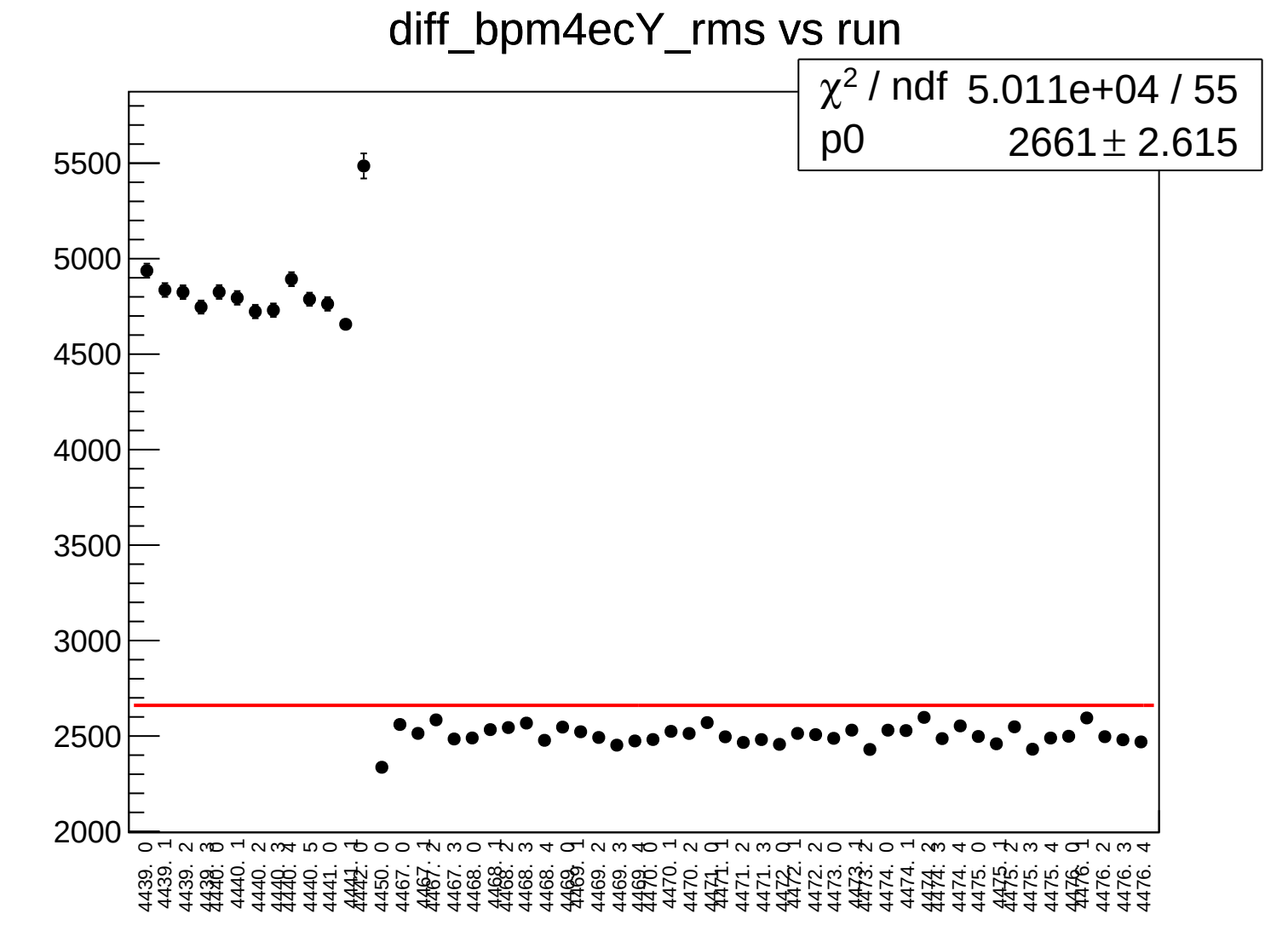

diff_bpm4ecX_mean vs run
χ² / ndf 56.55 / 55
p0 18.15 ± 13.05
400
200
0
−200
−400
pull
Entries 56
Mean −49.79
Std Dev 78.48
2
1
0
−1
−2

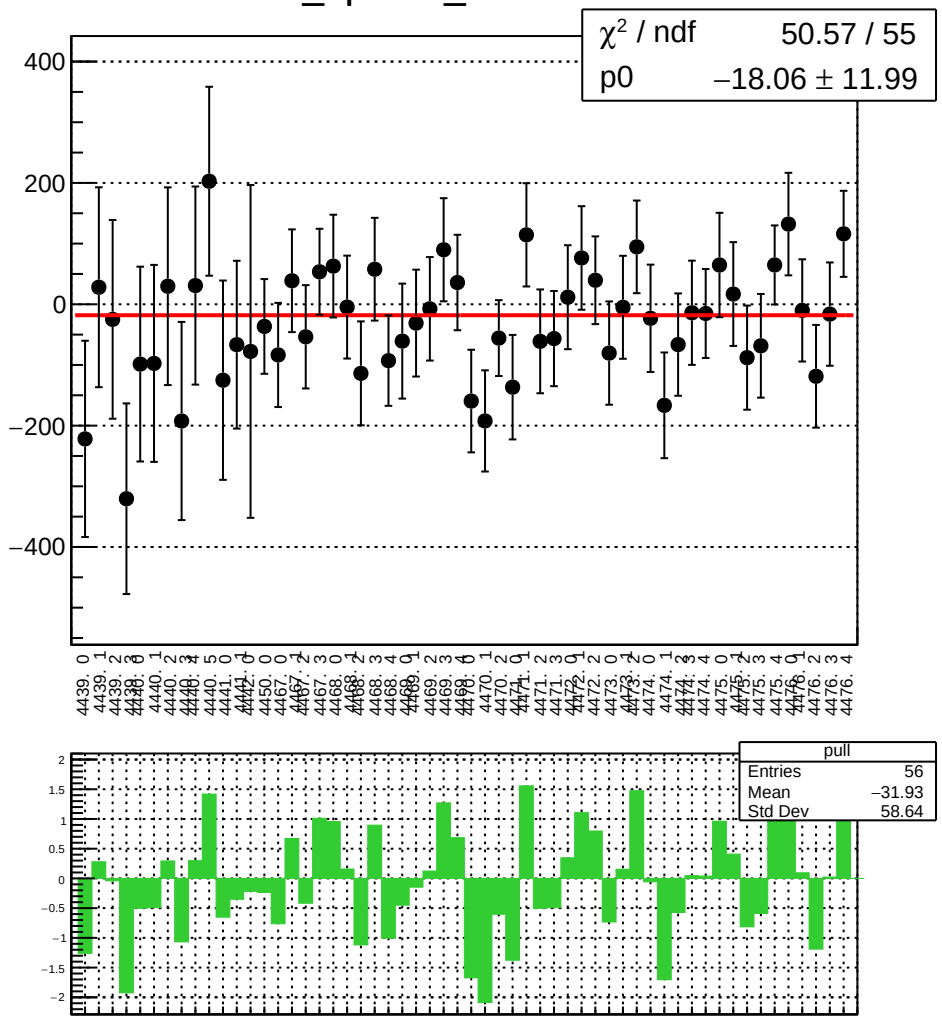

pull1D
Entries 56
Mean 0.04465
Std Dev 1.004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

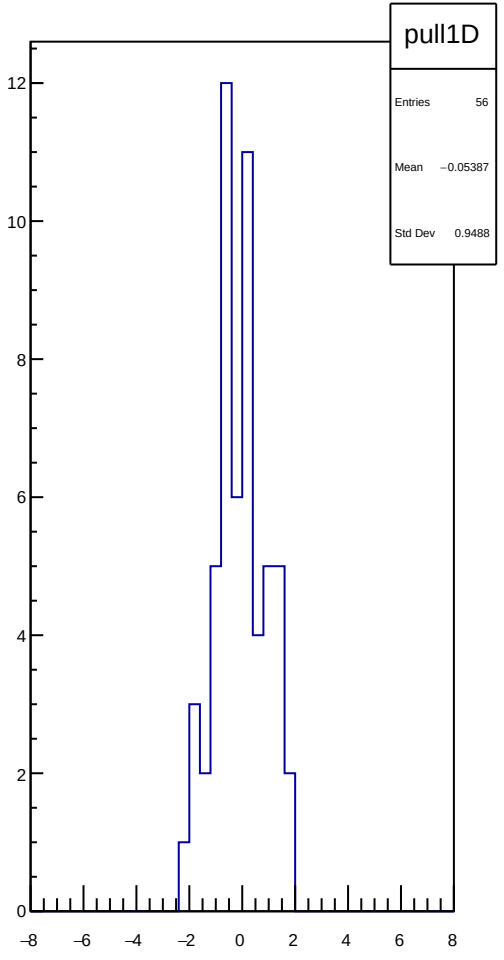

diff_bpm4ecX_rms vs run
χ² / ndf 3.972e+04 / 55
p0 9437 ± 9.23
16000
14000
12000
10000
8000

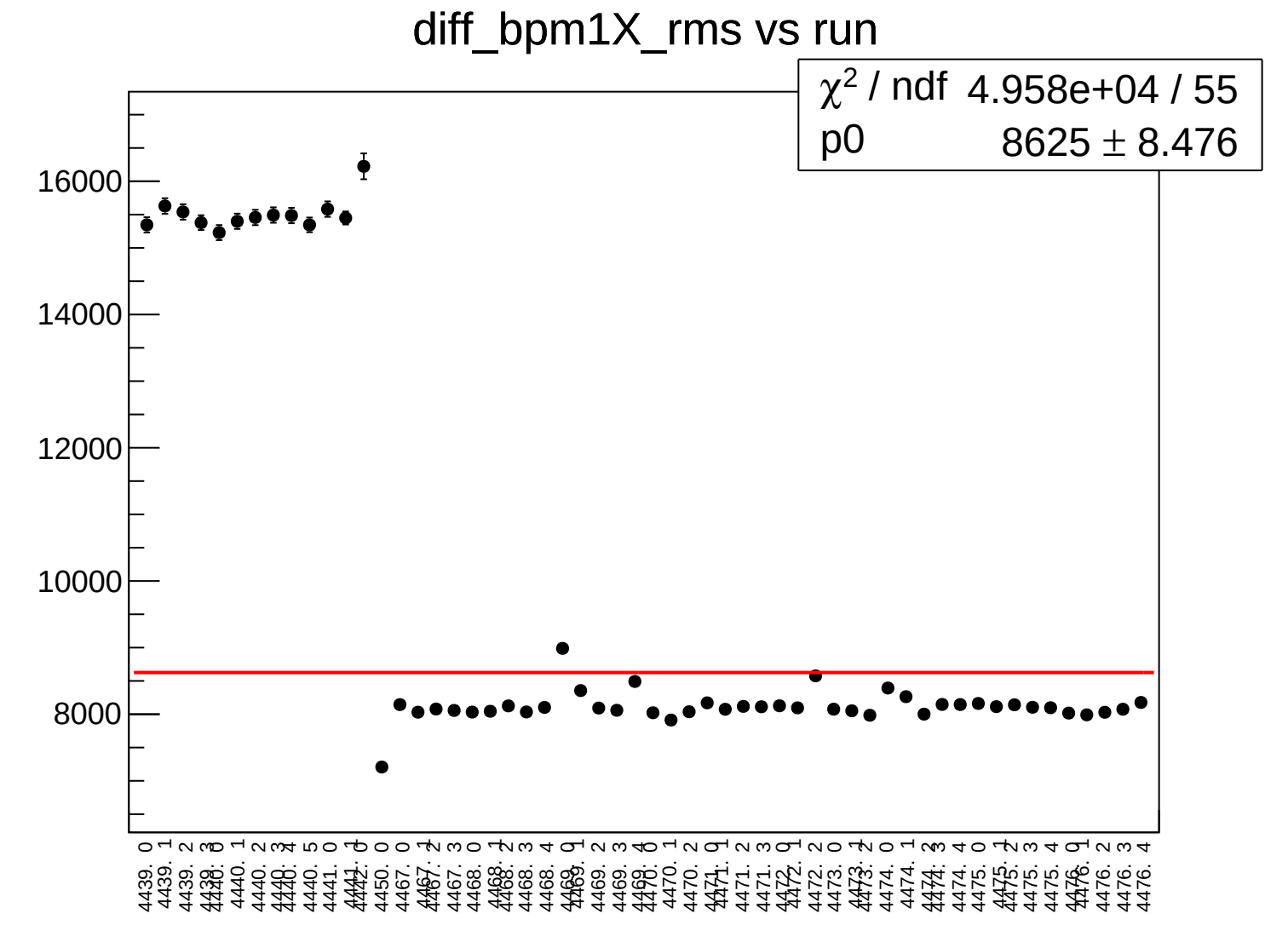

diff_bpm4ecY_mean vs run
χ² / ndf 35.99 / 55
p0 −4.07 ± 3.699
pull
Entries 56
Mean 3.521
Std Dev 28.76

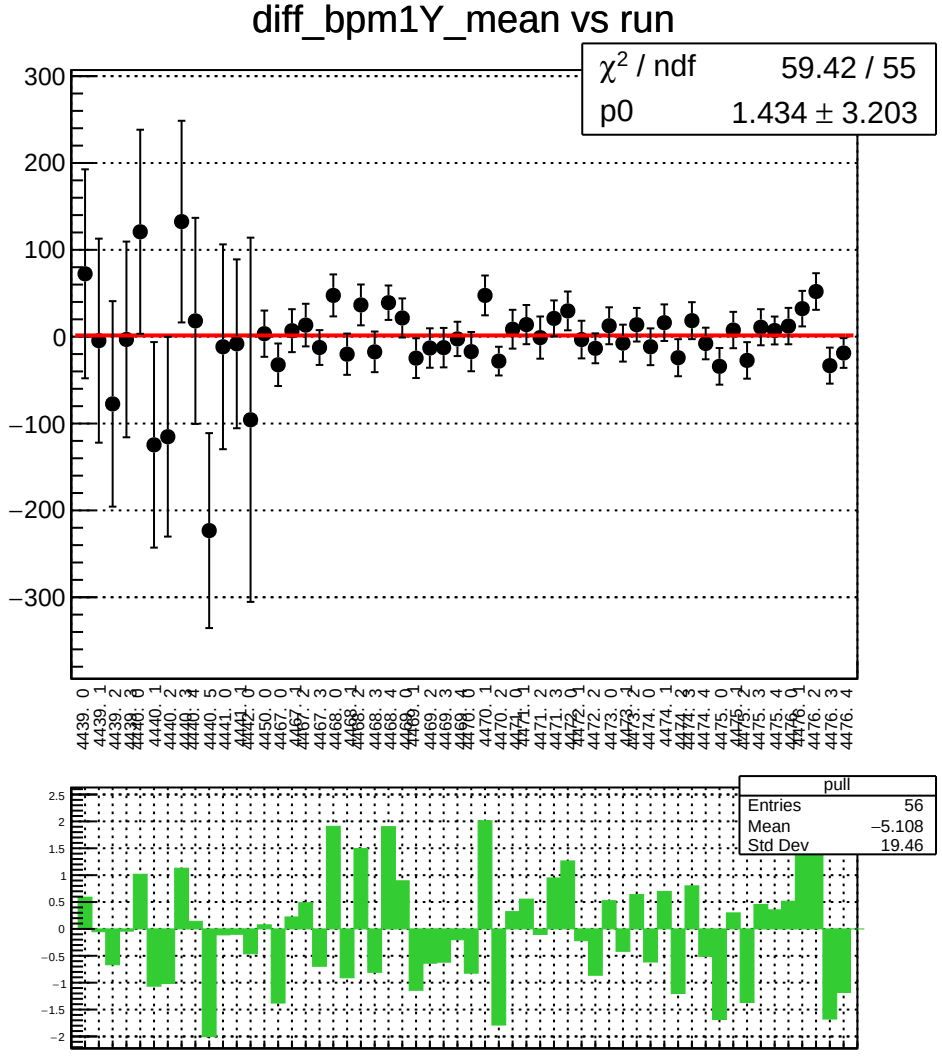

pull1D
Entries 56
Mean −0.01818
Std Dev 0.8015

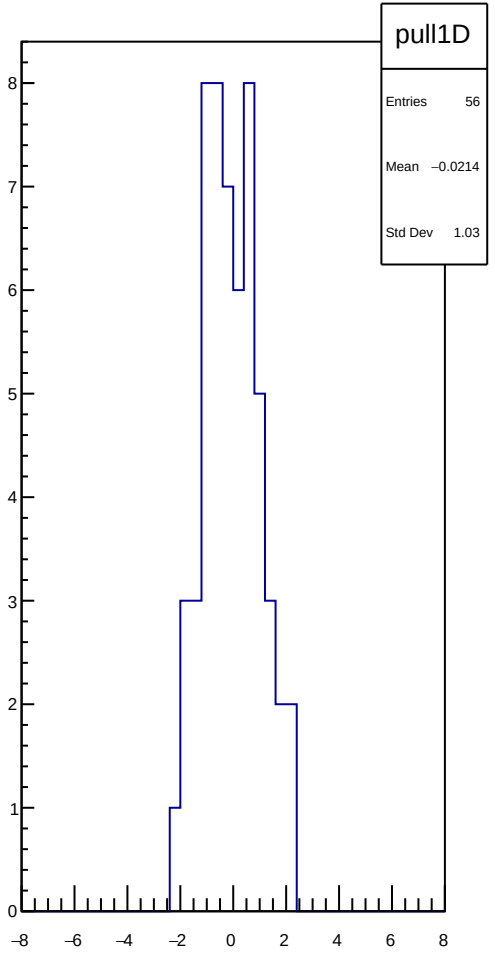

diff_bpm4ecY_rms vs run
χ² / ndf 5.011e+04 / 55
p0 2661 ± 2.615
5500
5000
4500
4000
3500
3000
2500
2000

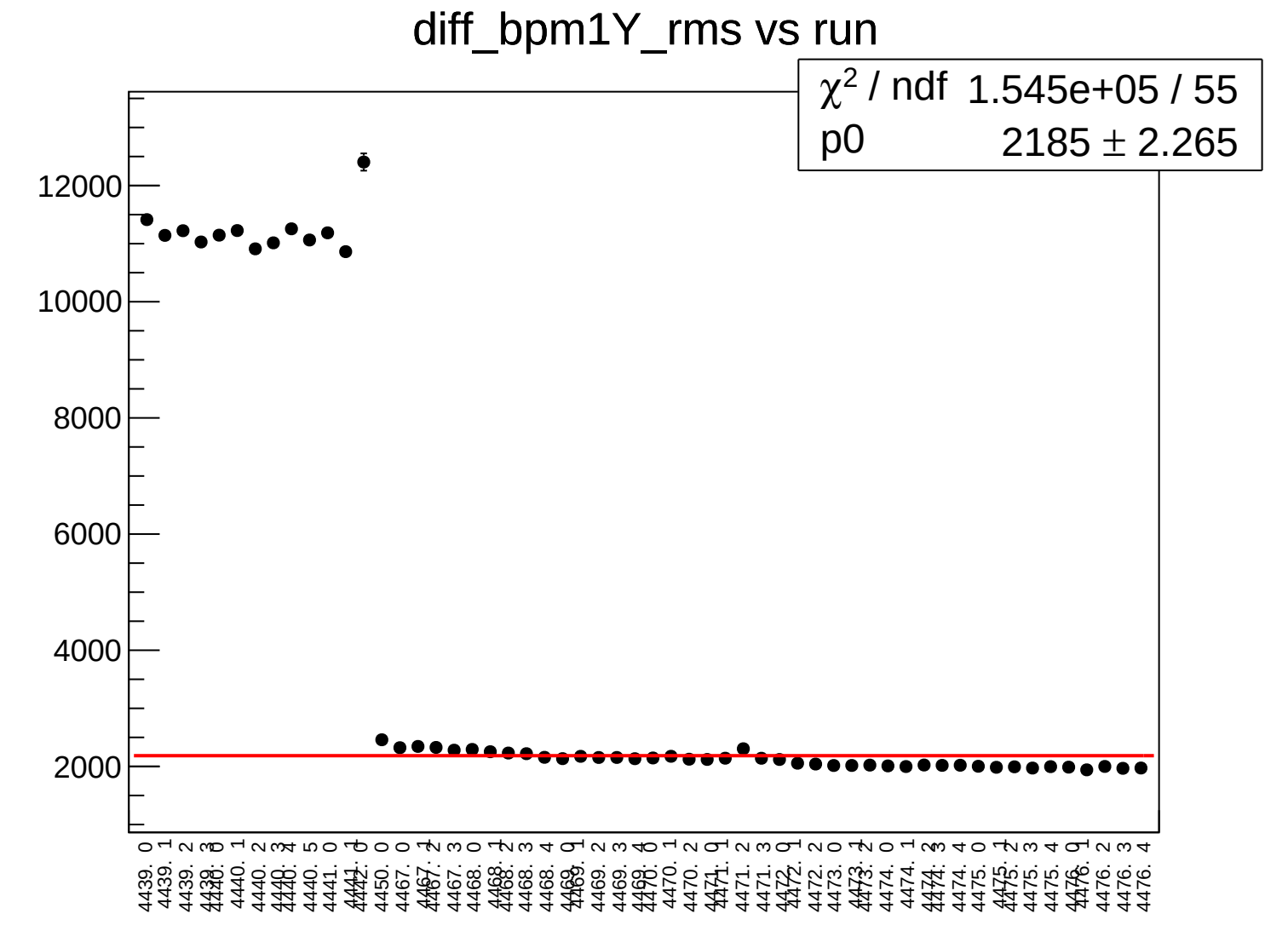

diff_bpm1X_mean vs run
χ² / ndf 50.57 / 55
p0 −18.06 ± 11.99
400
200
0
−200
−400
pull
Entries 56
Mean −31.93
Std Dev 58.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

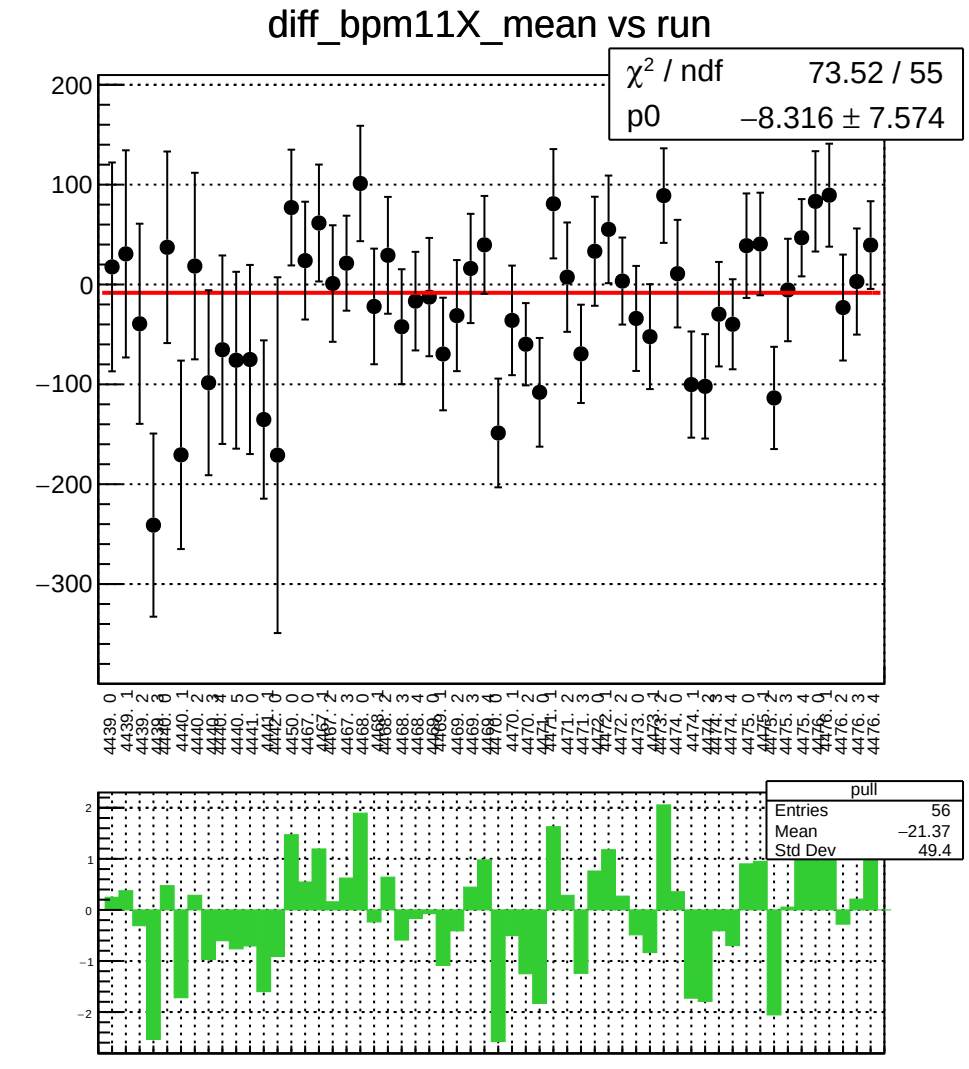

pull1D
Entries 56
Mean −0.05387
Std Dev 0.9488
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

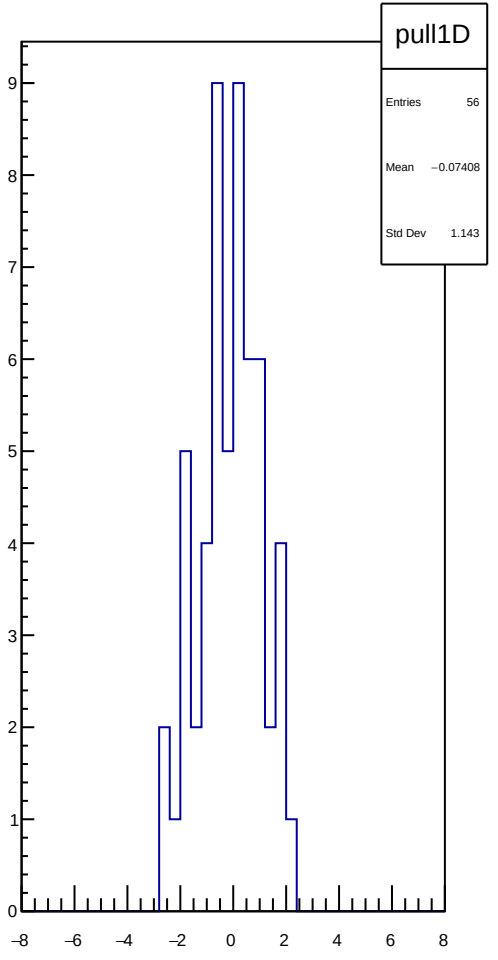

diff_bpm1X_rms vs run
χ² / ndf 4.958e+04 / 55
p0 8625 ± 8.476
16000
14000
12000
10000
8000
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

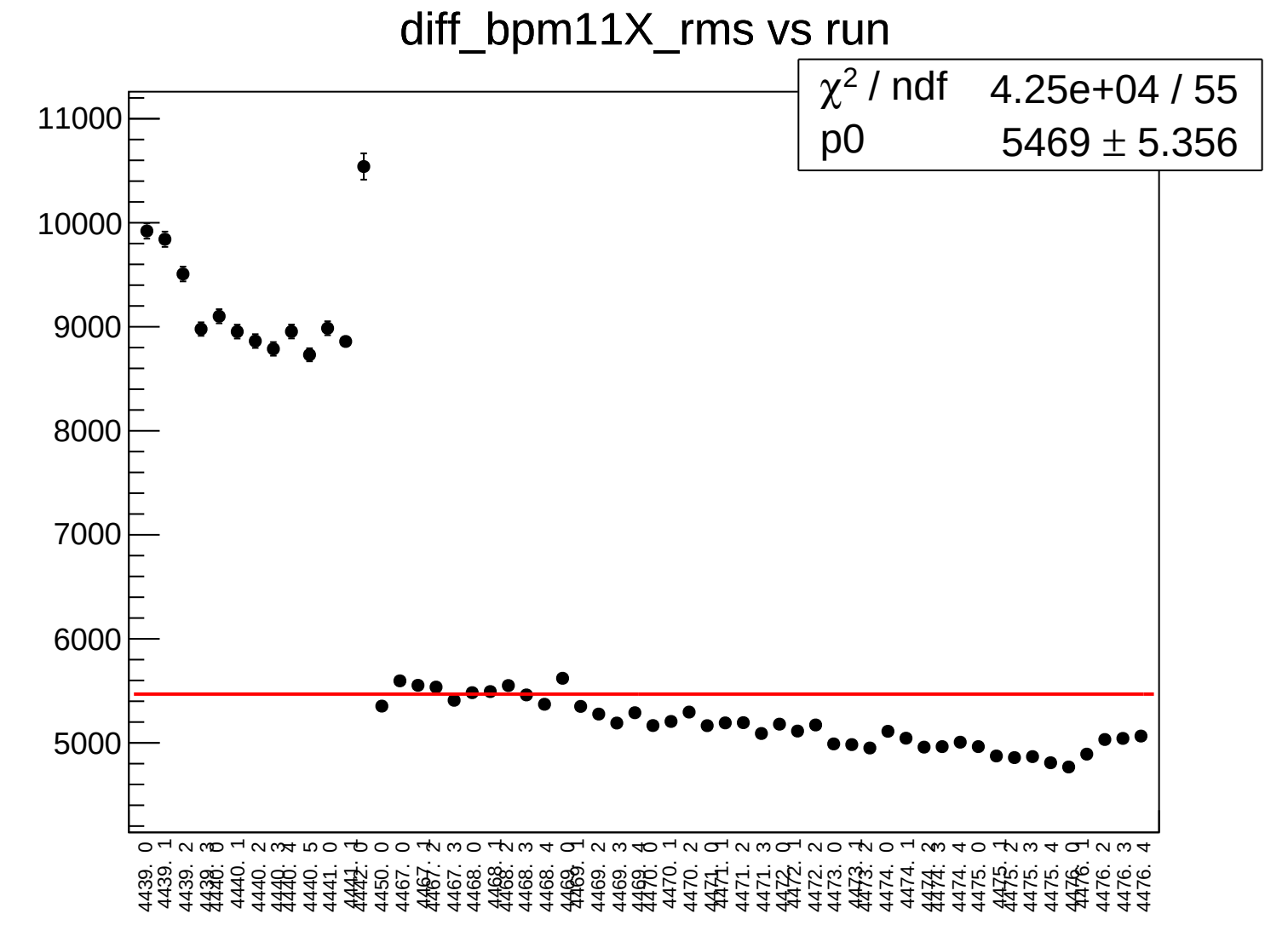

diff_bpm1Y_mean vs run
χ^2 / ndf 59.42 / 55
p0 1.434 ± 3.203
pull
Entries 56
Mean −5.108
Std Dev 19.46

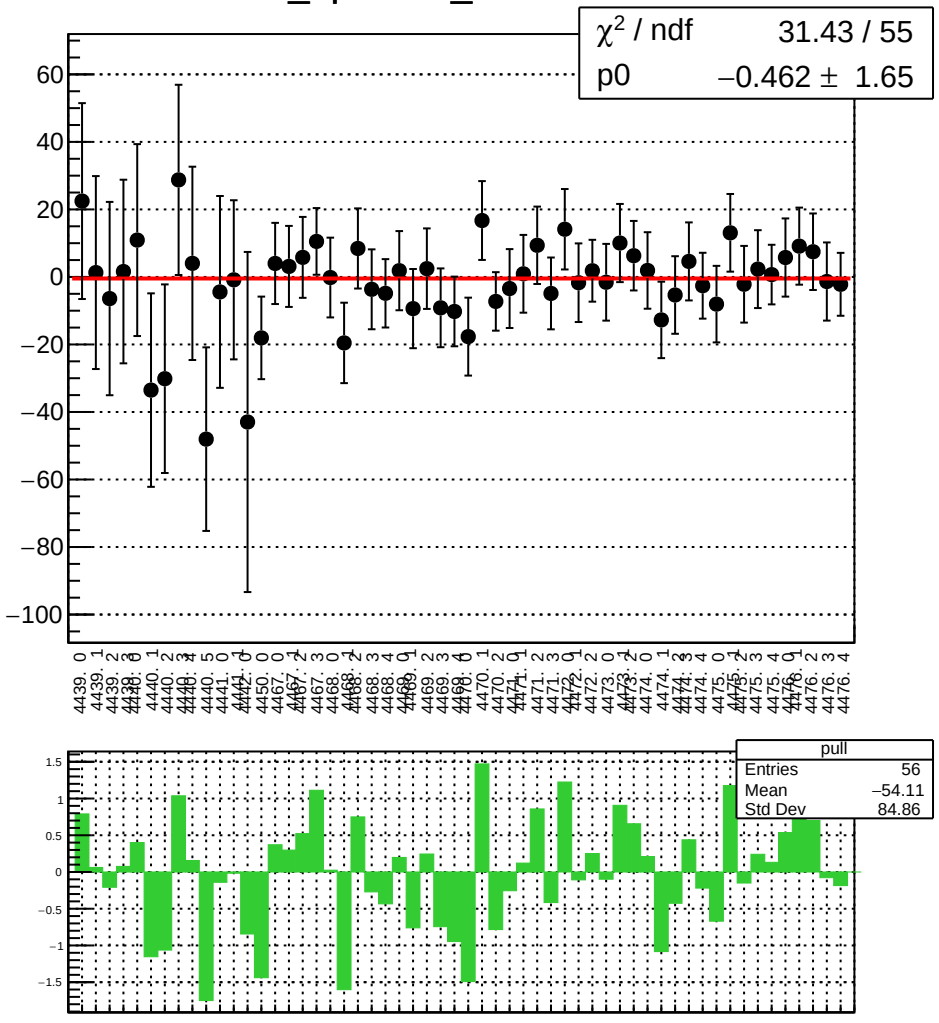

pull1D
Entries 56
Mean −0.0214
Std Dev 1.03

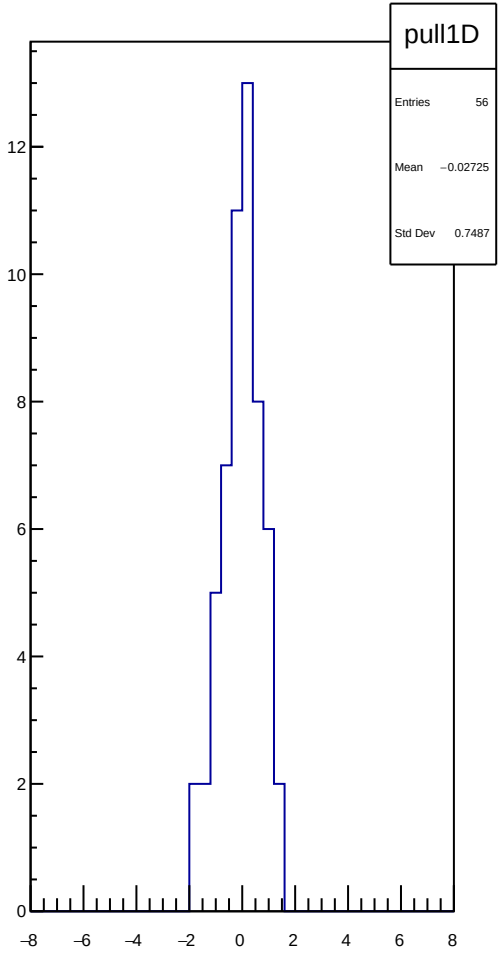

diff_bpm1Y_rms vs run
χ² / ndf 1.545e+05 / 55
p0 2185 ± 2.265
12000
10000
8000
6000
4000
2000

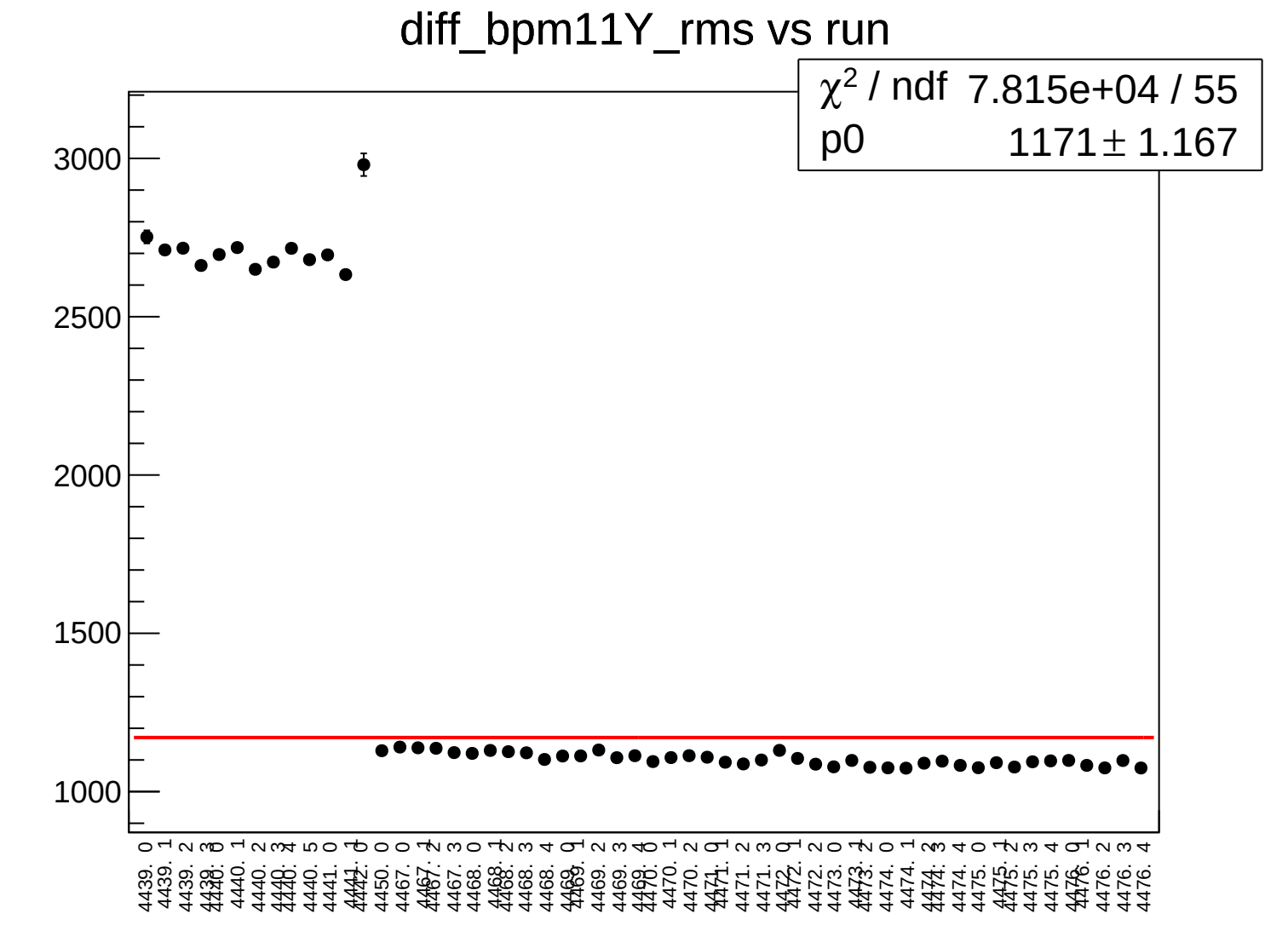

diff_bpm11X_mean vs run
χ² / ndf 73.52 / 55
p0 −8.316 ± 7.574
pull
Entries 56
Mean −21.37
Std Dev 49.4

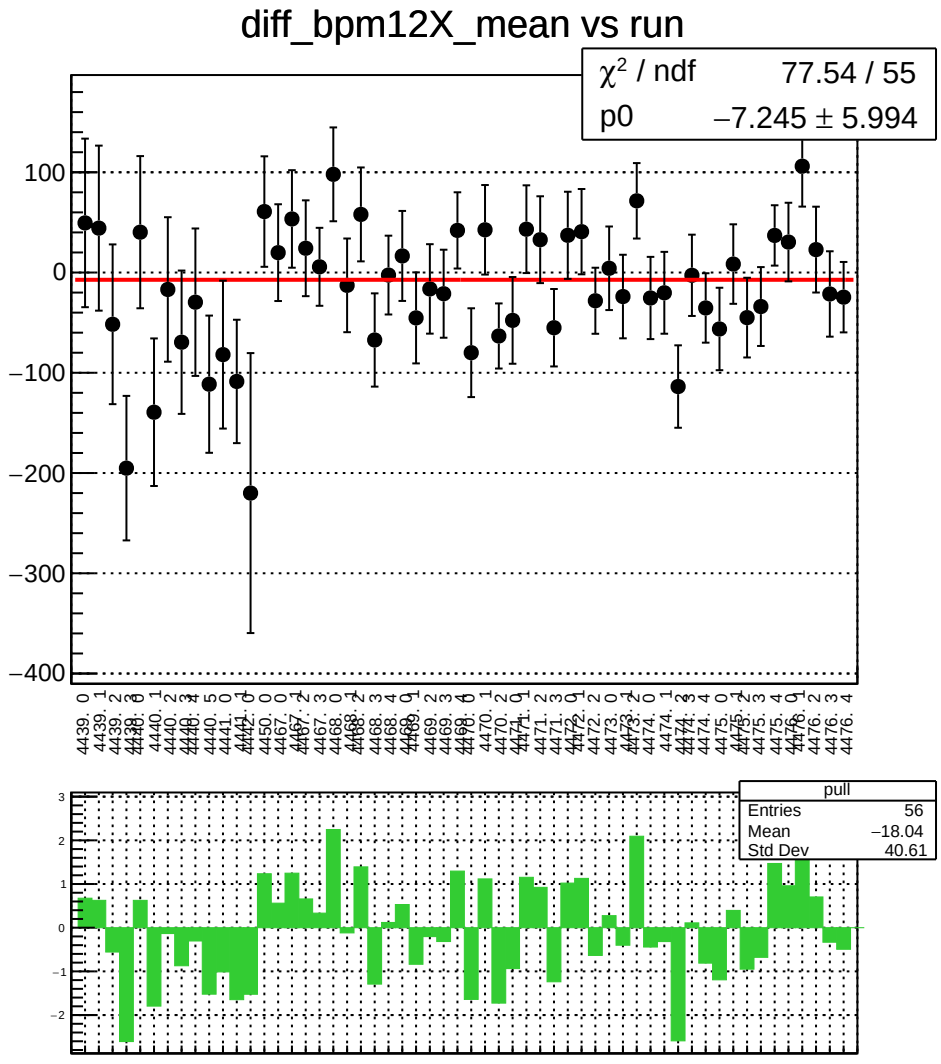

pull1D
Entries 56
Mean −0.07408
Std Dev 1.143

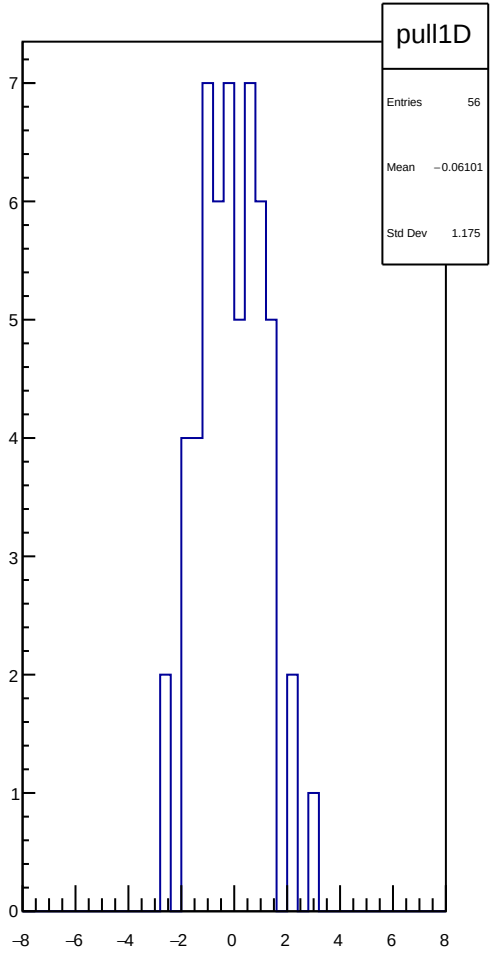

diff_bpm11X_rms vs run
χ² / ndf 4.25e+04 / 55
p0 5469 ± 5.356
11000
10000
9000
8000
7000
6000
5000

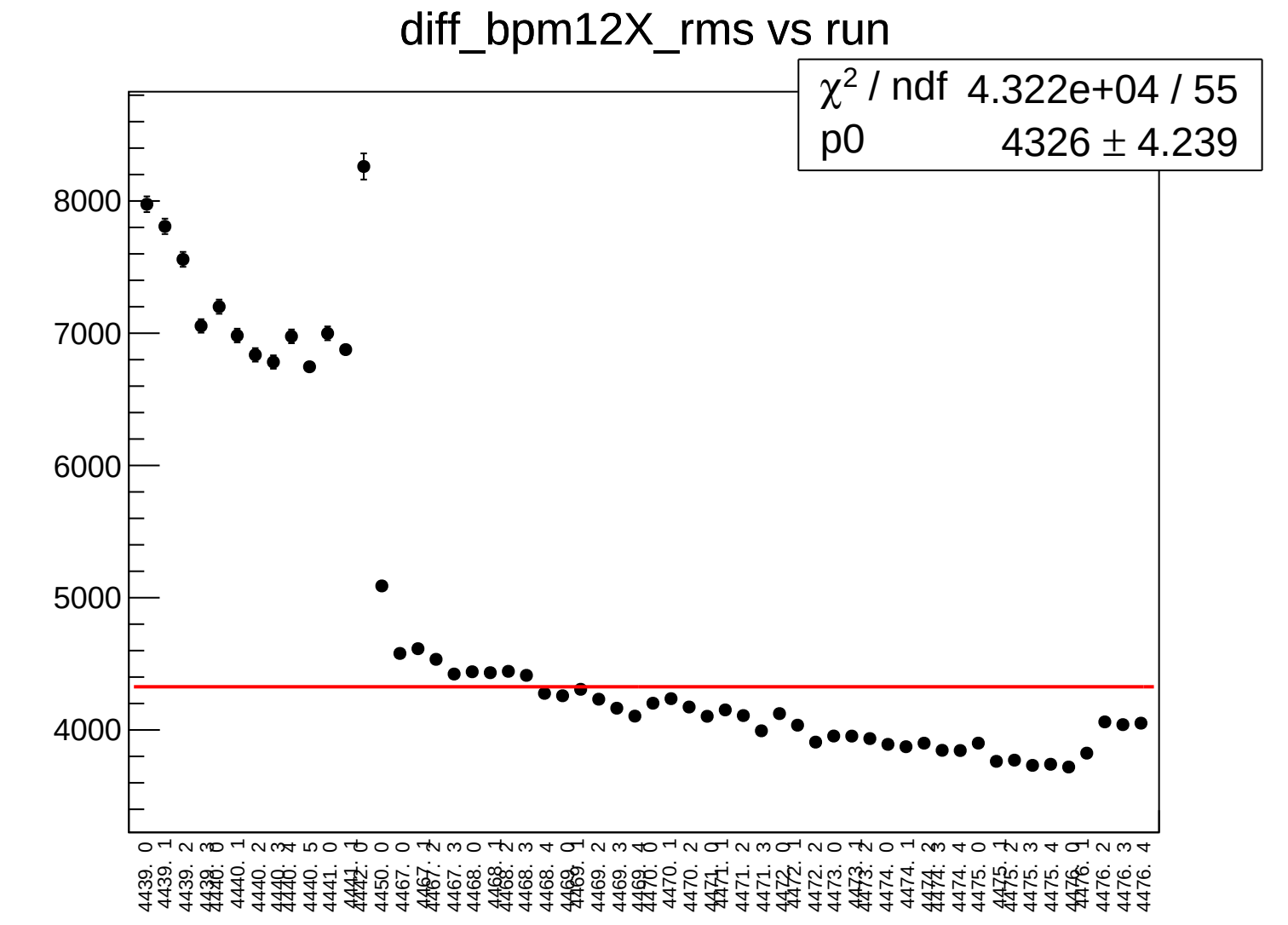

diff_bpm11Y_mean vs run
χ² / ndf 31.43 / 55
p0 −0.462 ± 1.65
pull
Entries 56
Mean −54.11
Std Dev 84.86

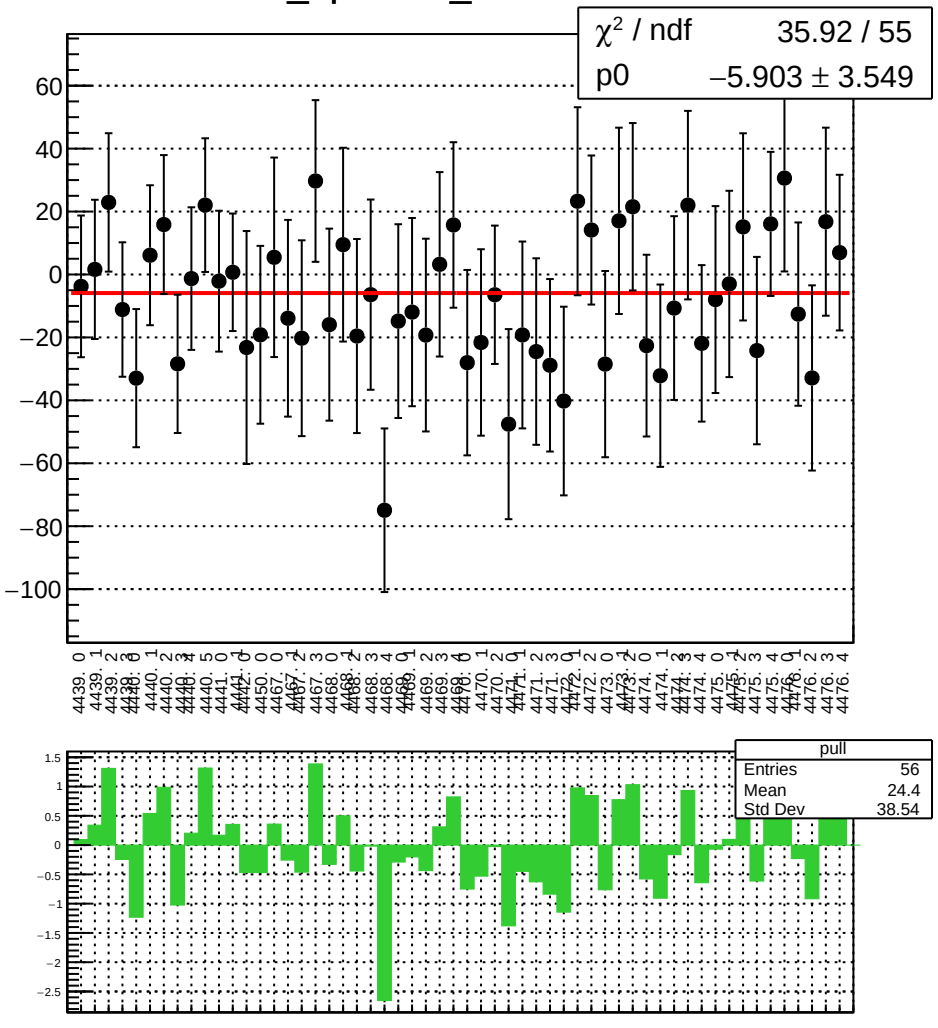

pull1D
Entries 56
Mean −0.02725
Std Dev 0.7487

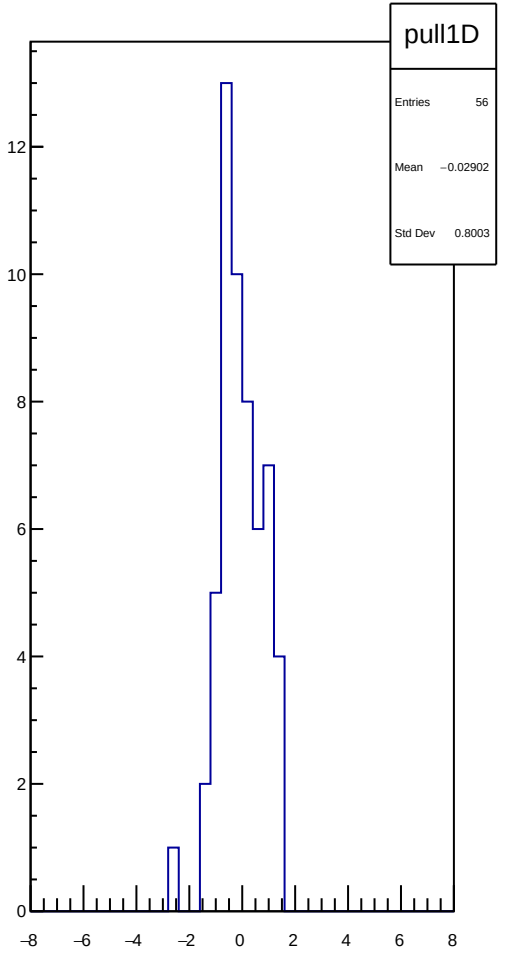

diff_bpm11Y_rms vs run
χ² / ndf 7.815e+04 / 55
p0 1171 ± 1.167
3000
2500
2000
1500
1000
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

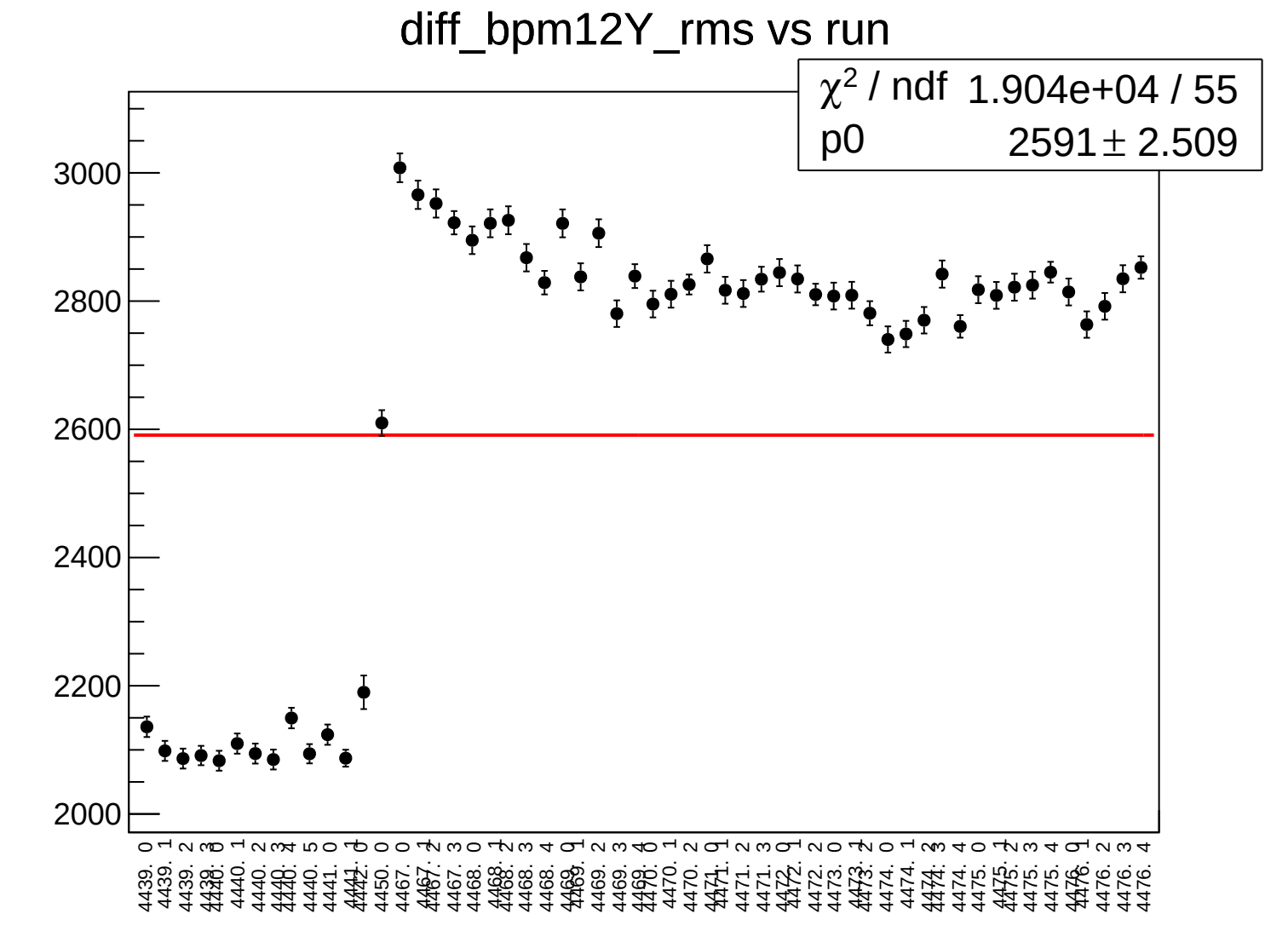

diff_bpm12X_mean vs run
χ² / ndf 77.54 / 55
p0 −7.245 ± 5.994
100
0
−100
−200
−300
−400
pull
Entries 56
Mean −18.04
Std Dev 40.61
3
2
1
0
−1
−2

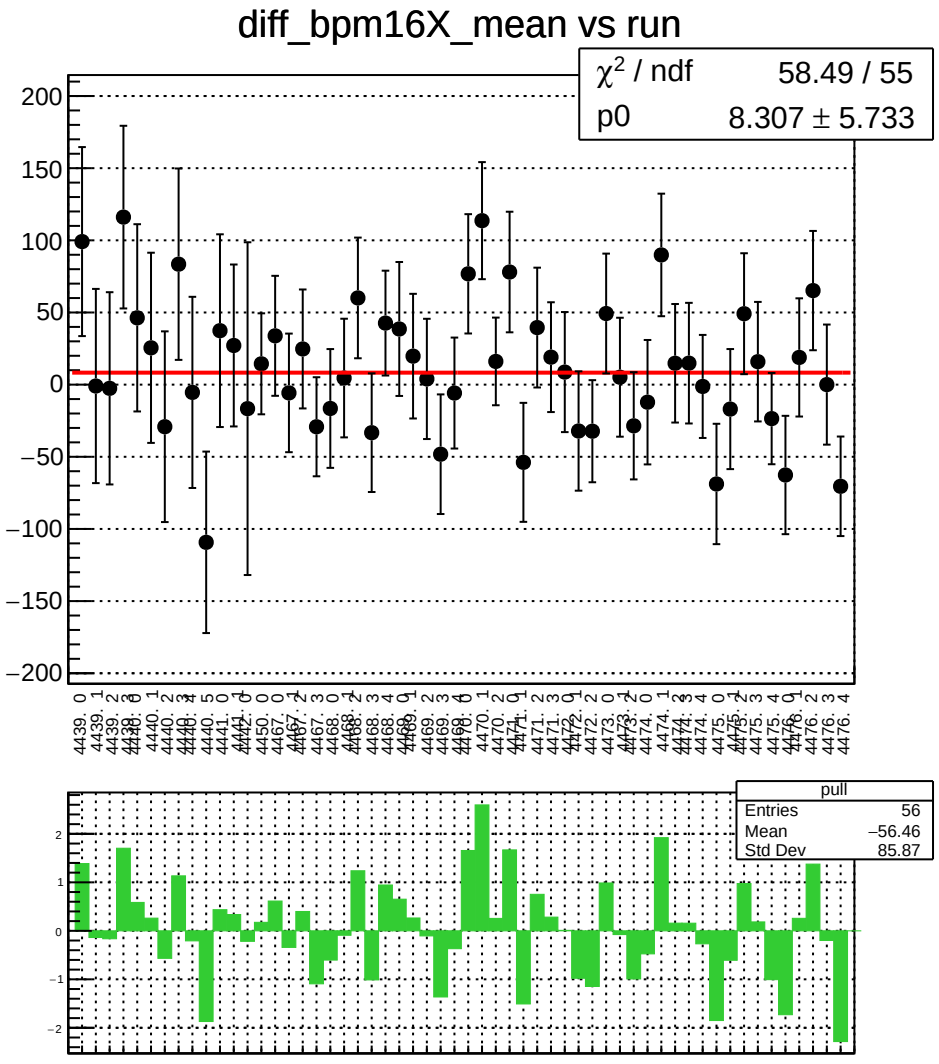

pull1D
Entries 56
Mean −0.06101
Std Dev 1.175
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

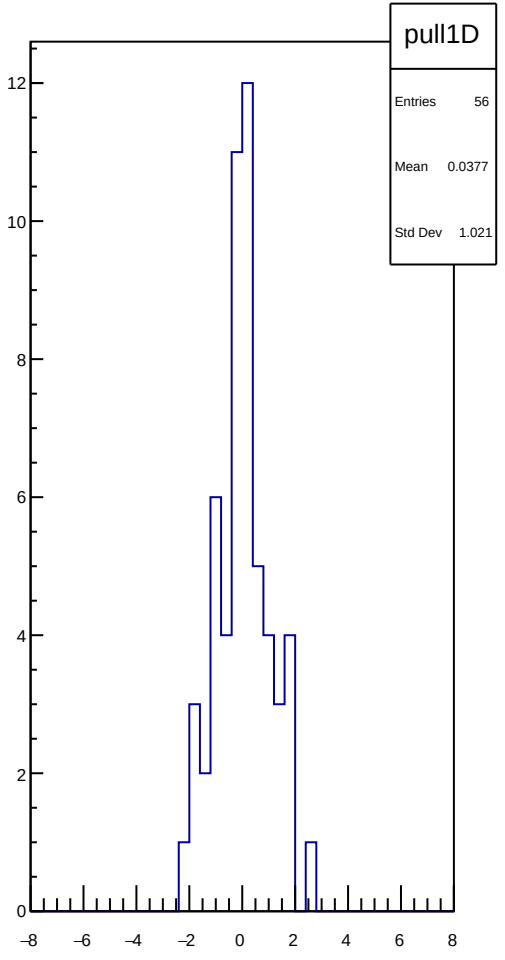

diff_bpm12X_rms vs run
χ² / ndf 4.322e+04 / 55
p0 4326 ± 4.239
8000
7000
6000
5000
4000

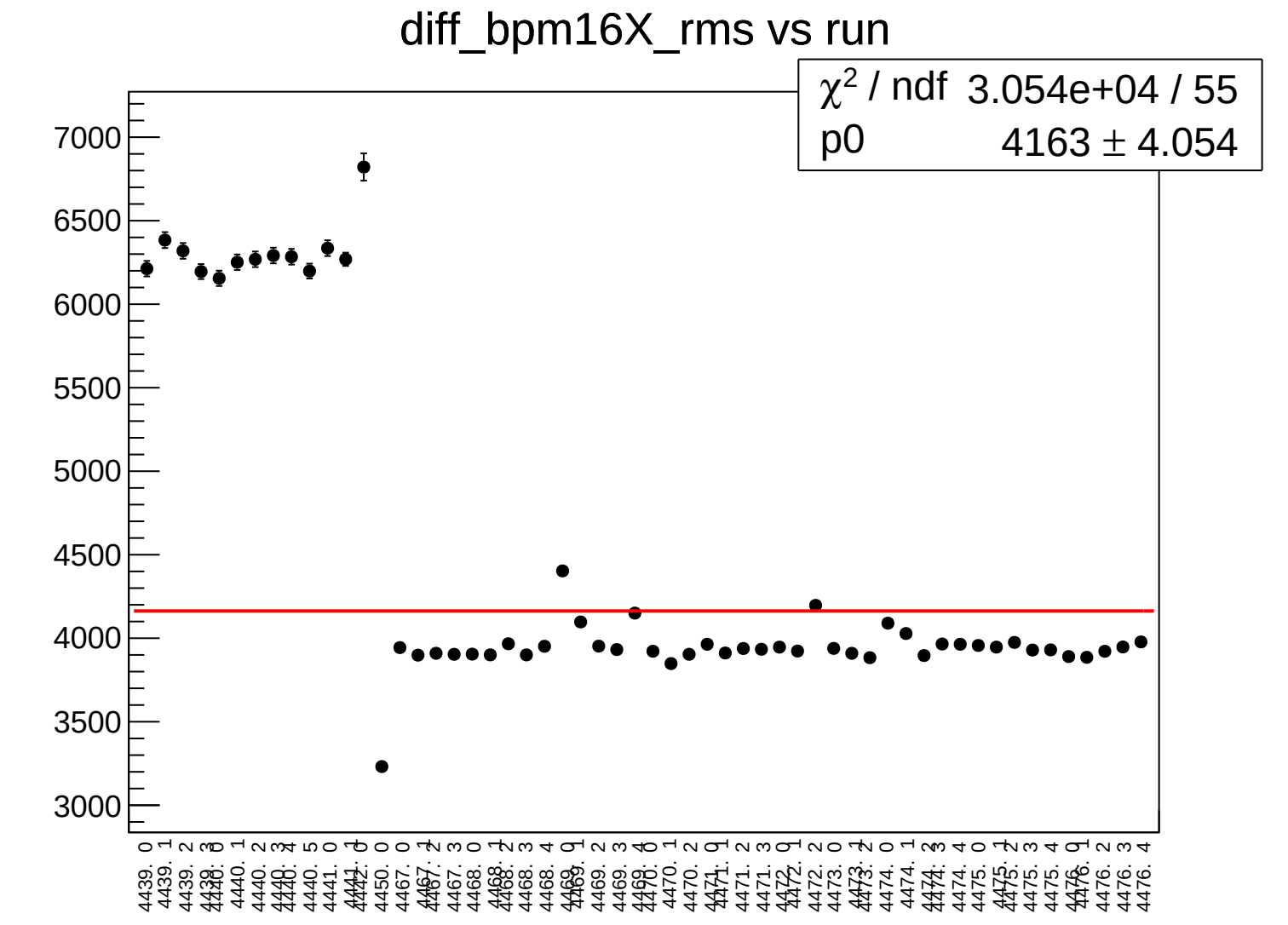

diff_bpm12Y_mean vs run
χ² / ndf 35.92 / 55
p0 −5.903 ± 3.549
pull
Entries 56
Mean 24.4
Std Dev 38.54

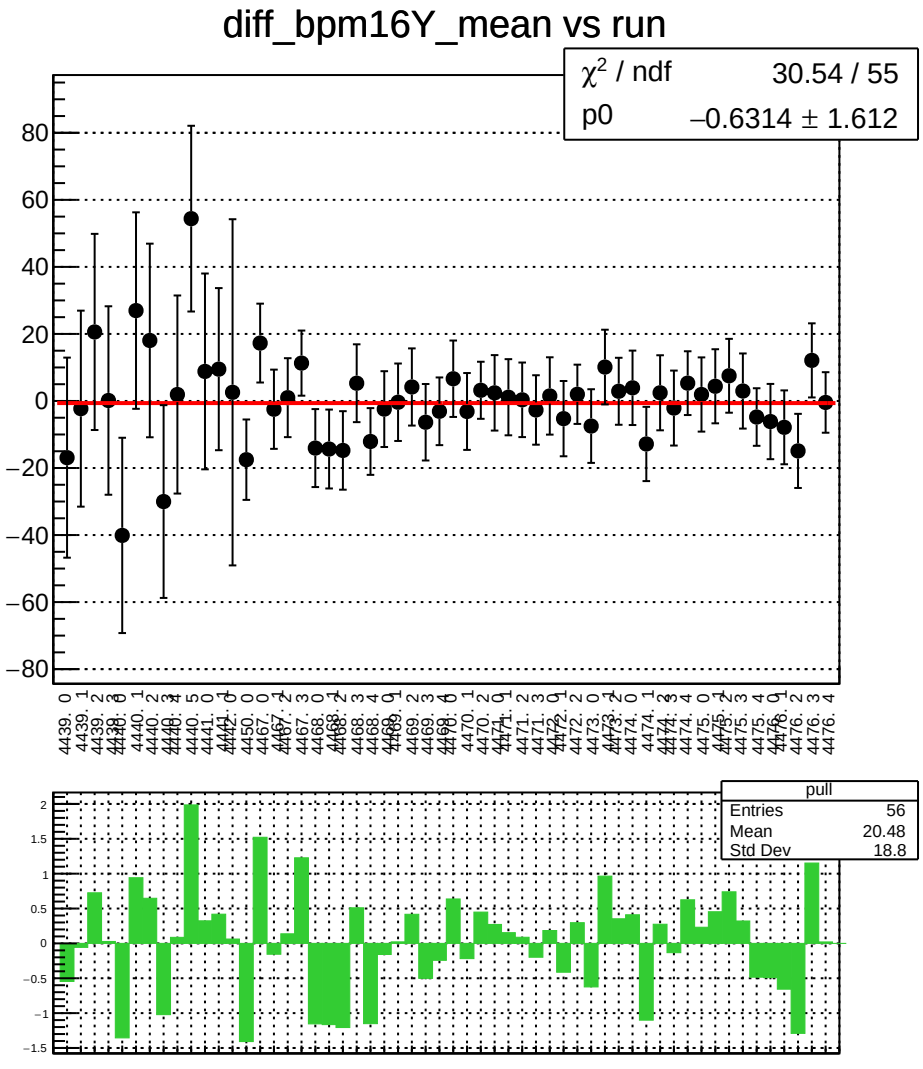

pull1D
Entries 56
Mean −0.02902
Std Dev 0.8003

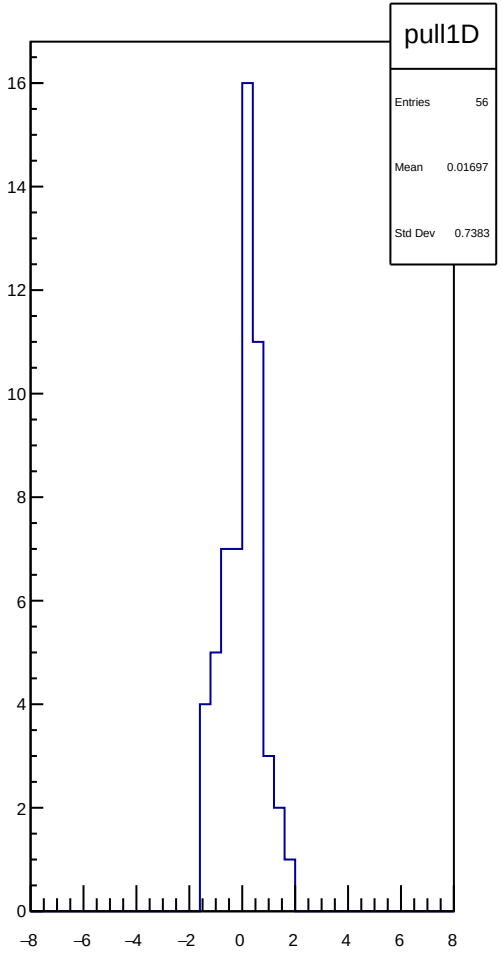

diff_bpm12Y_rms vs run
χ² / ndf 1.904e+04 / 55
p0 2591 ± 2.509
3000
2800
2600
2400
2200
2000

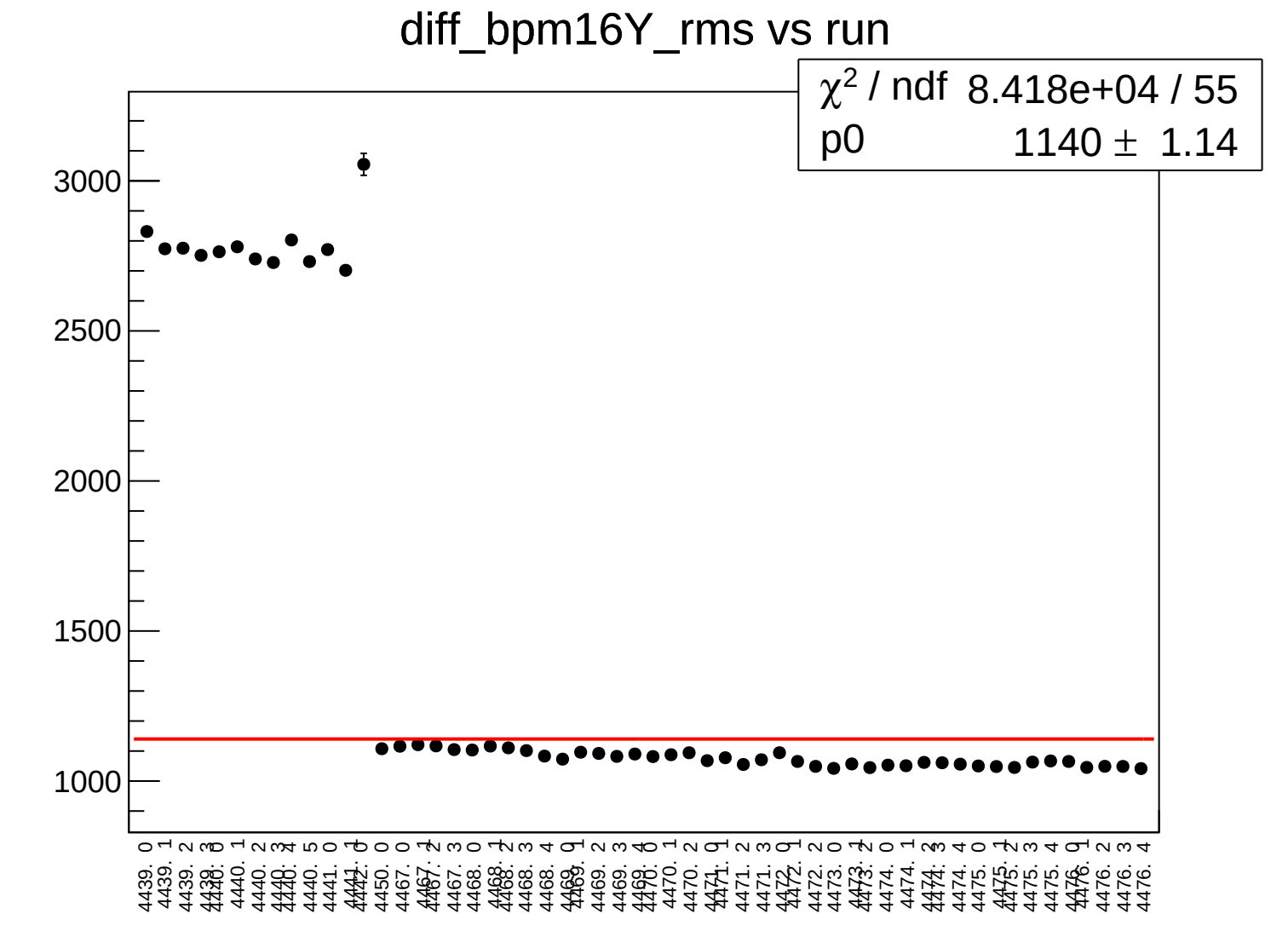

diff_bpm16X_mean vs run
χ^2 / ndf 58.49 / 55
p0 8.307 ± 5.733
pull
Entries 56
Mean −56.46
Std Dev 85.87

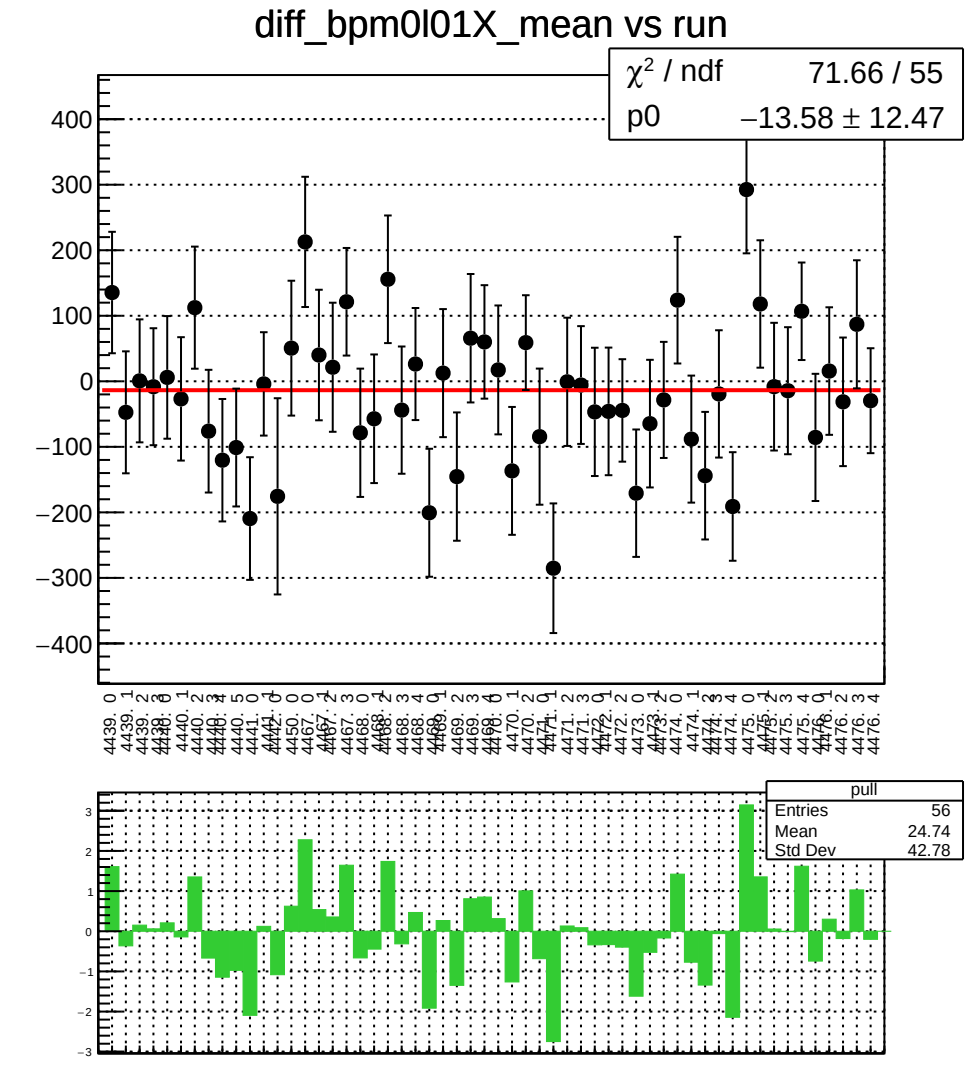

pull1D
Entries 56
Mean 0.0377
Std Dev 1.021

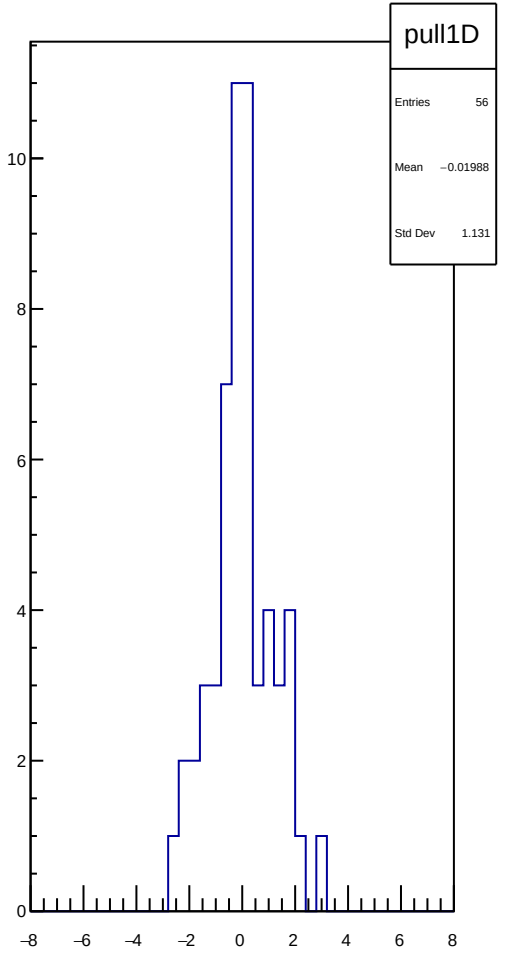

diff_bpm16X_rms vs run
χ² / ndf 3.054e+04 / 55
p0 4163 ± 4.054
7000
6500
6000
5500
5000
4500
4000
3500
3000

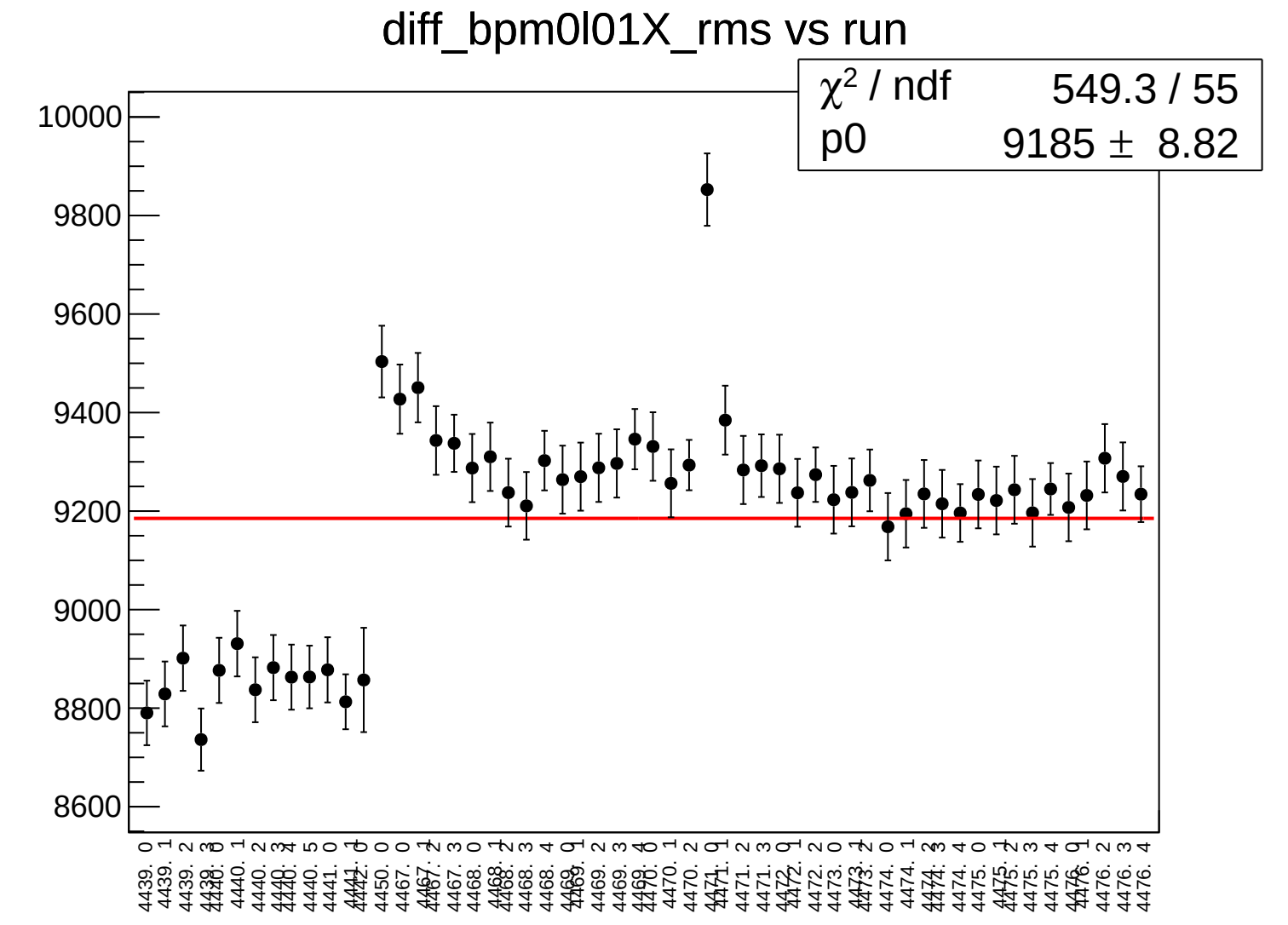

diff_bpm16Y_mean vs run
χ² / ndf 30.54 / 55
p0 −0.6314 ± 1.612
pull
Entries 56
Mean 20.48
Std Dev 18.8

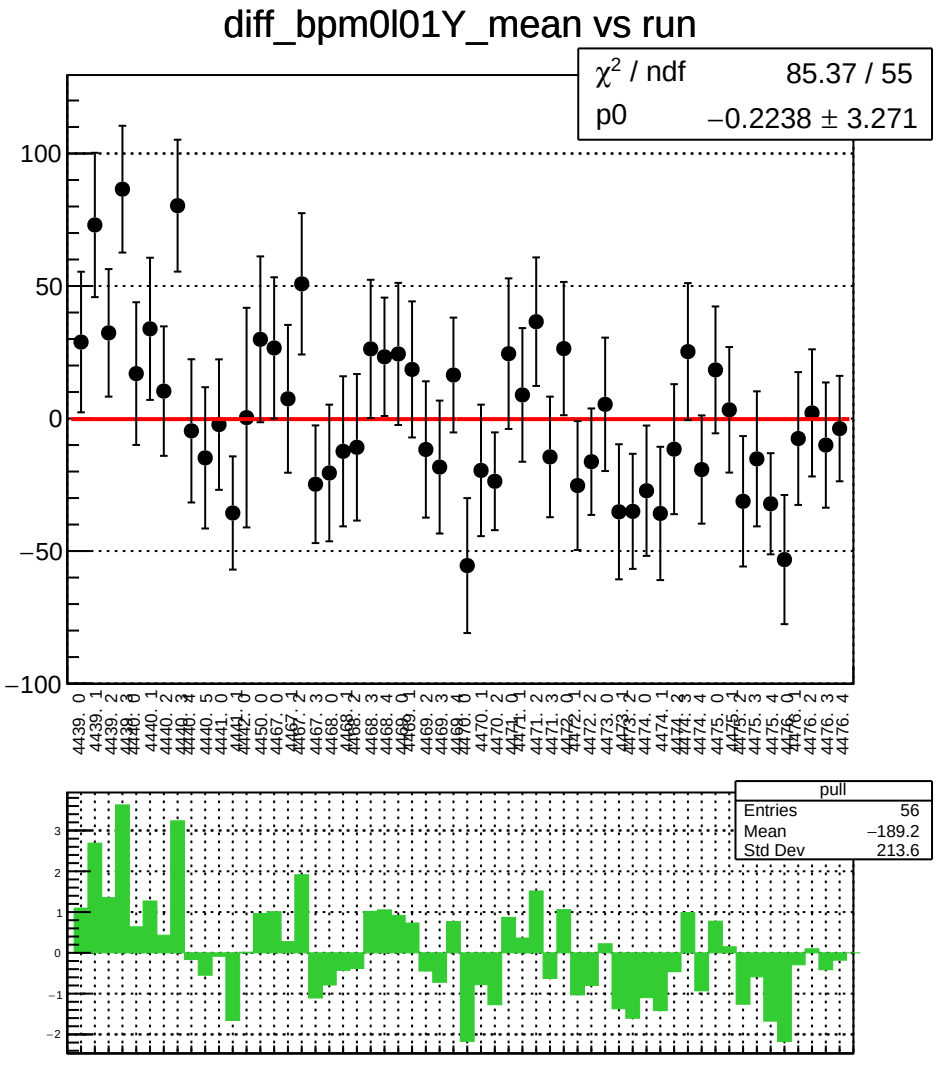

pull1D
Entries 56
Mean 0.01697
Std Dev 0.7383

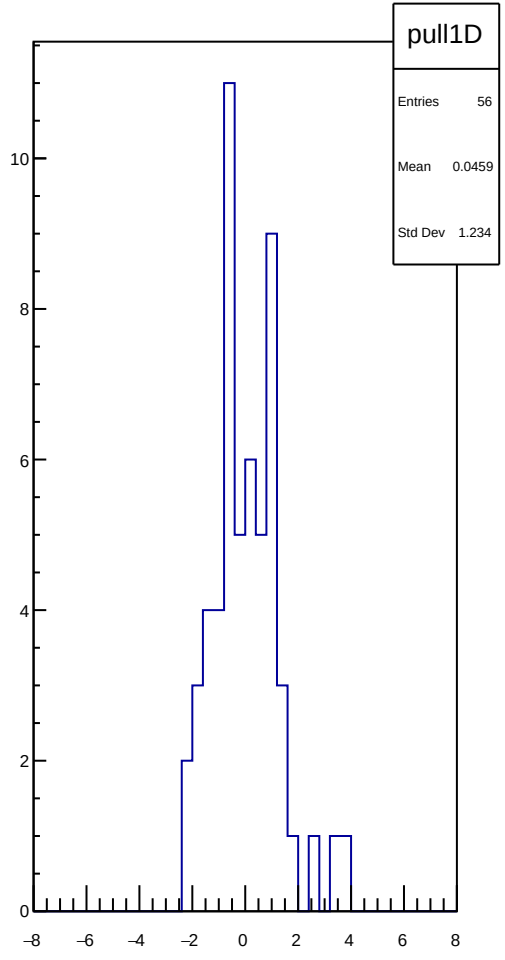

diff_bpm16Y_rms vs run
χ² / ndf 8.418e+04 / 55
p0 1140 ± 1.14
3000
2500
2000
1500
1000

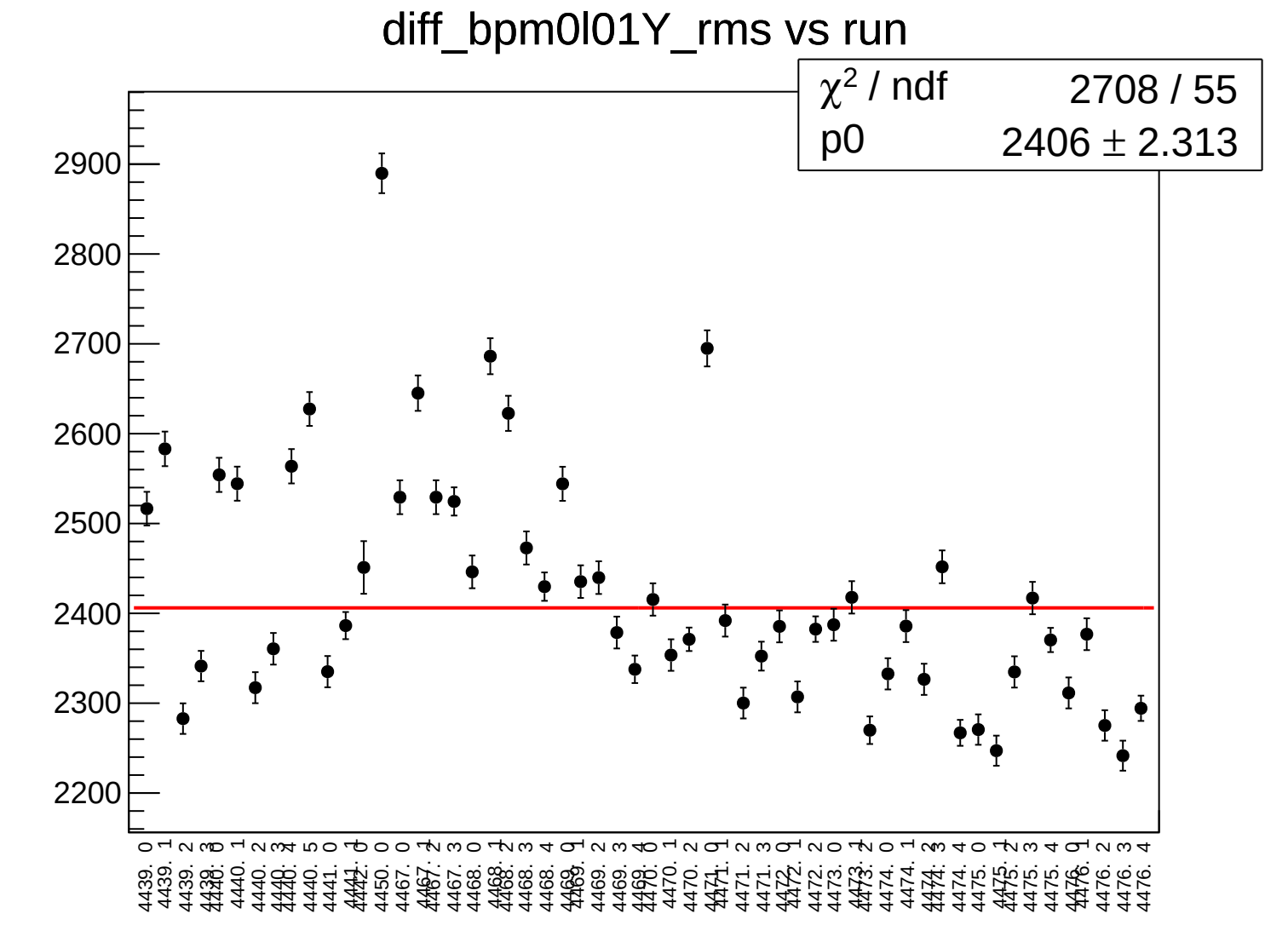

diff_bpm0l01X_mean vs run
χ² / ndf 71.66 / 55
p0 −13.58 ± 12.47
pull
Entries 56
Mean 24.74
Std Dev 42.78

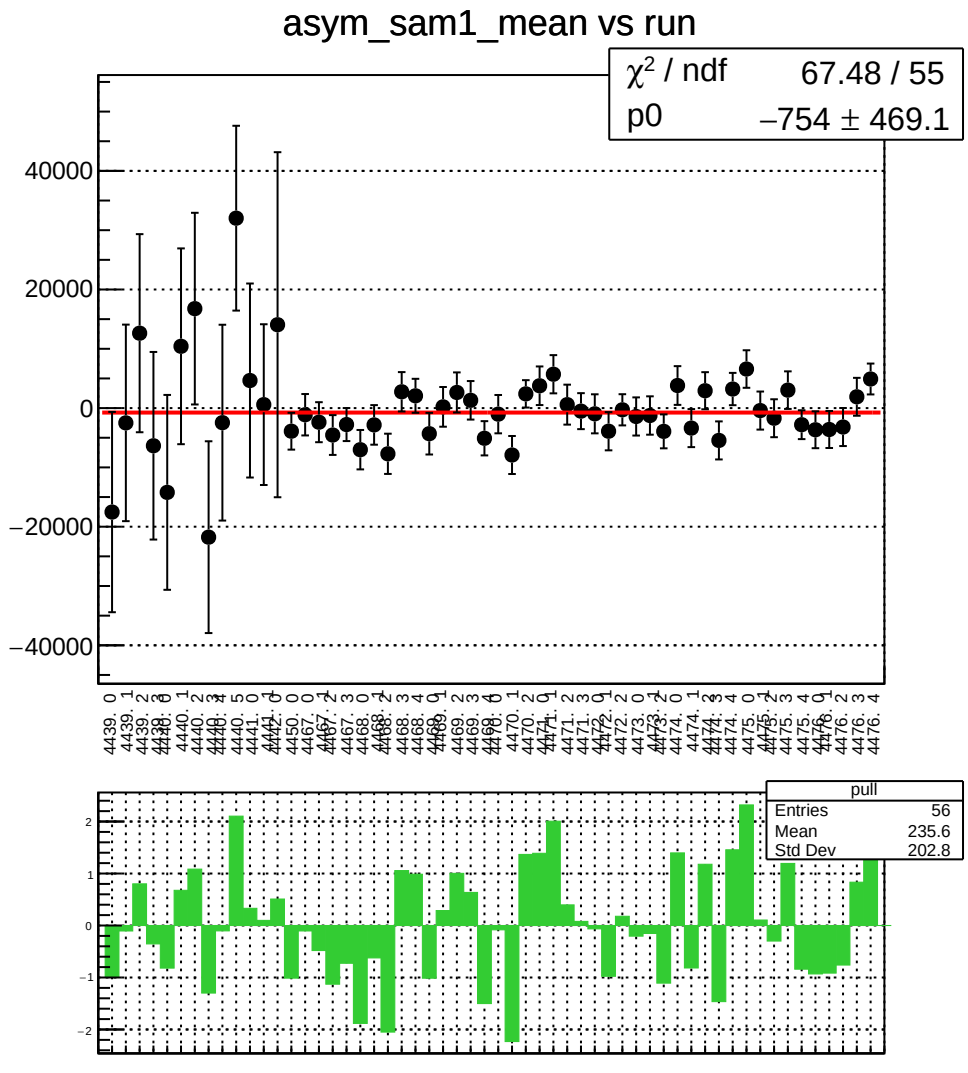

pull1D
Entries 56
Mean −0.01988
Std Dev 1.131

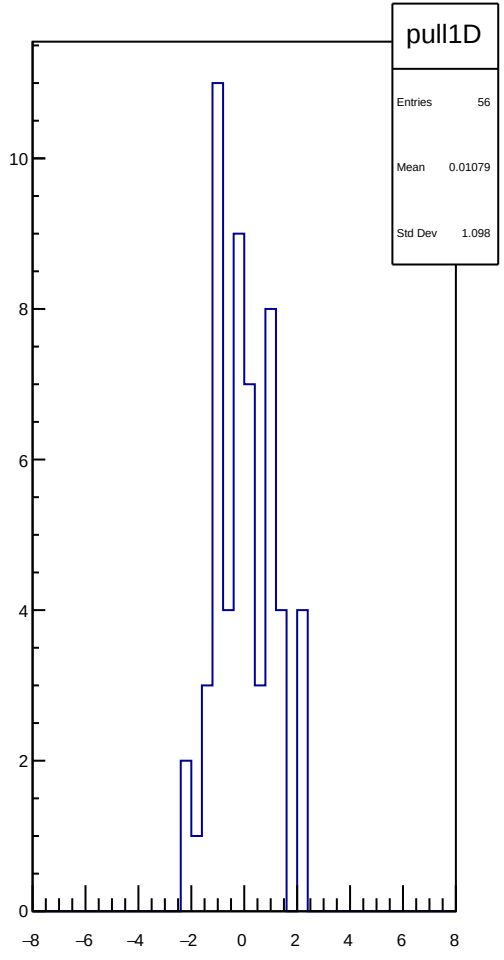

diff_bpm0l01X_rms vs run
χ² / ndf 549.3 / 55
p0 9185 ± 8.82
10000
9800
9600
9400
9200
9000
8800
8600

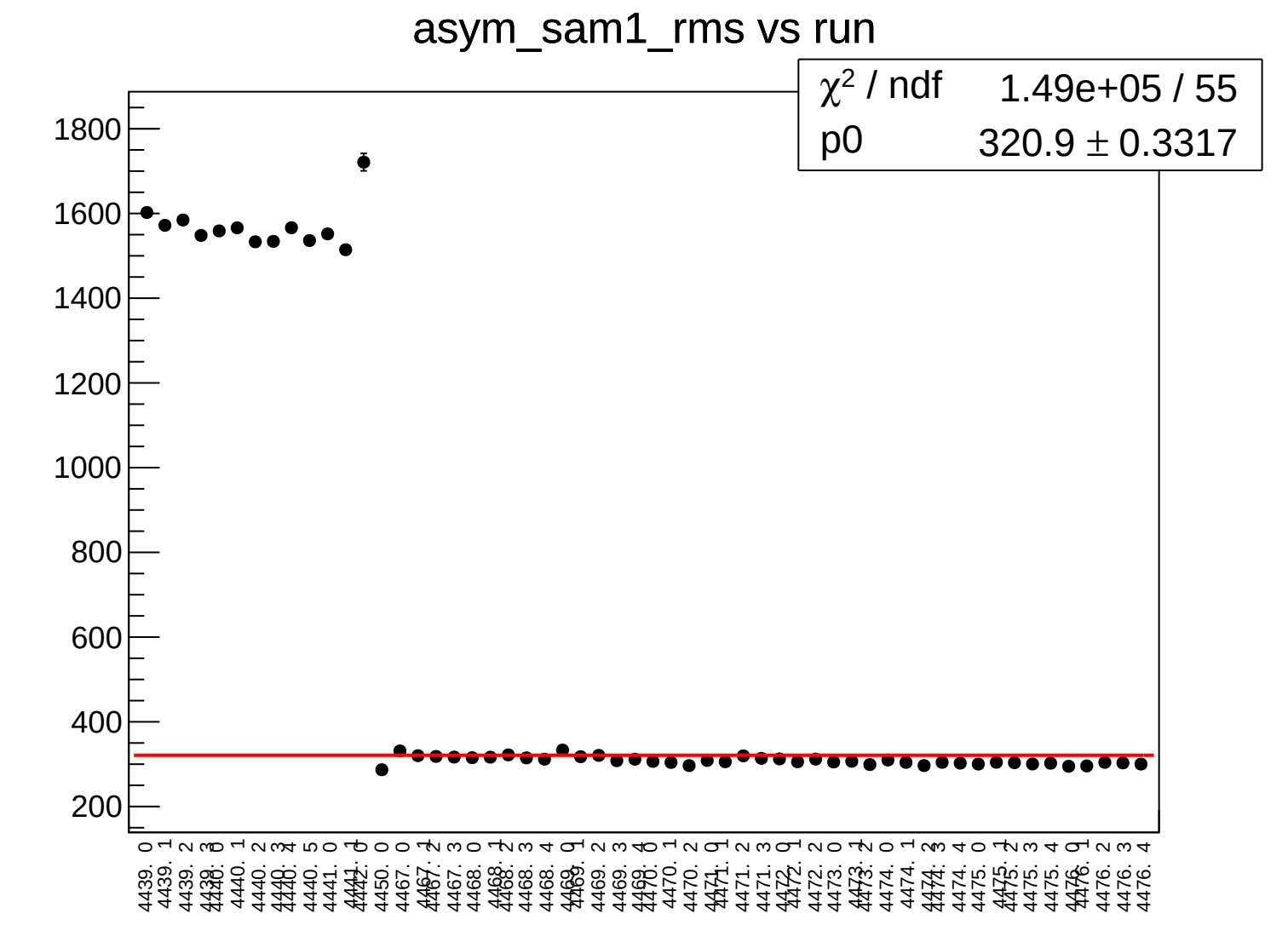

diff_bpm0l01Y_mean vs run
χ² / ndf 85.37 / 55
p0 −0.2238 ± 3.271
pull
Entries 56
Mean −189.2
Std Dev 213.6

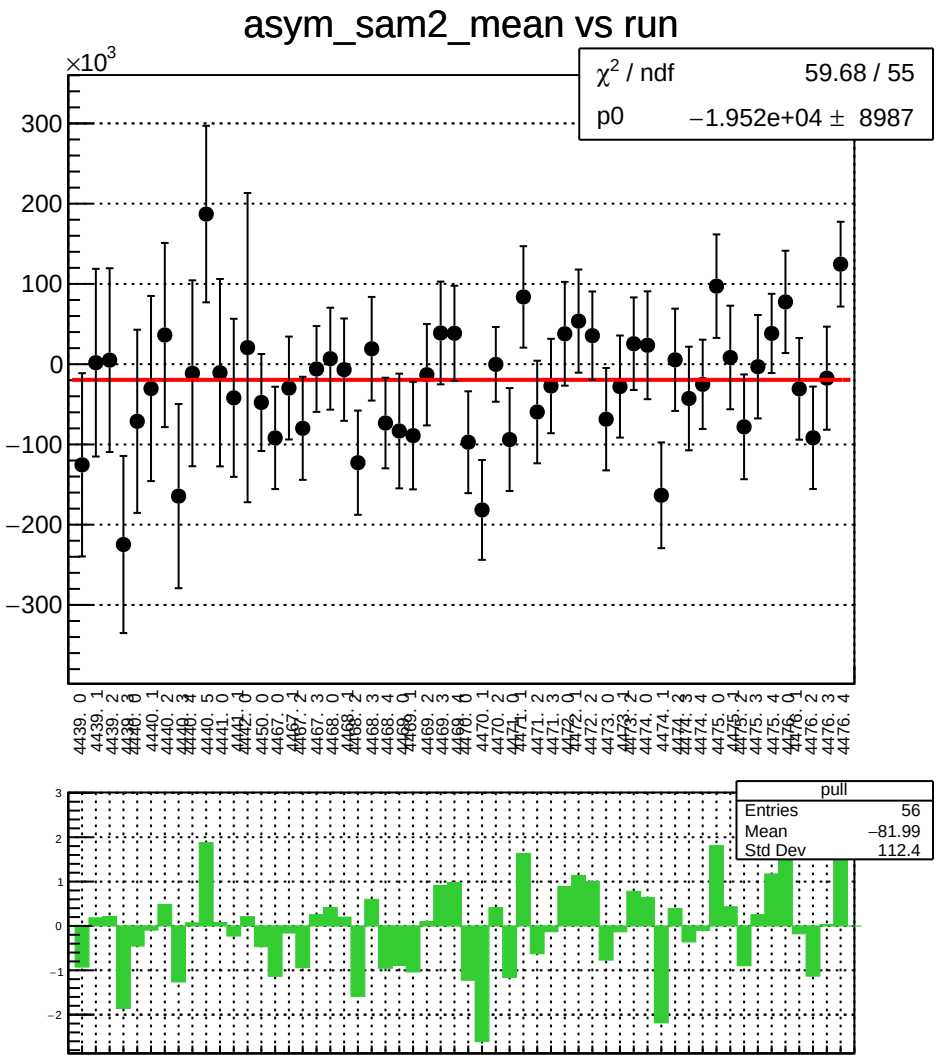

pull1D
Entries 56
Mean 0.0459
Std Dev 1.234

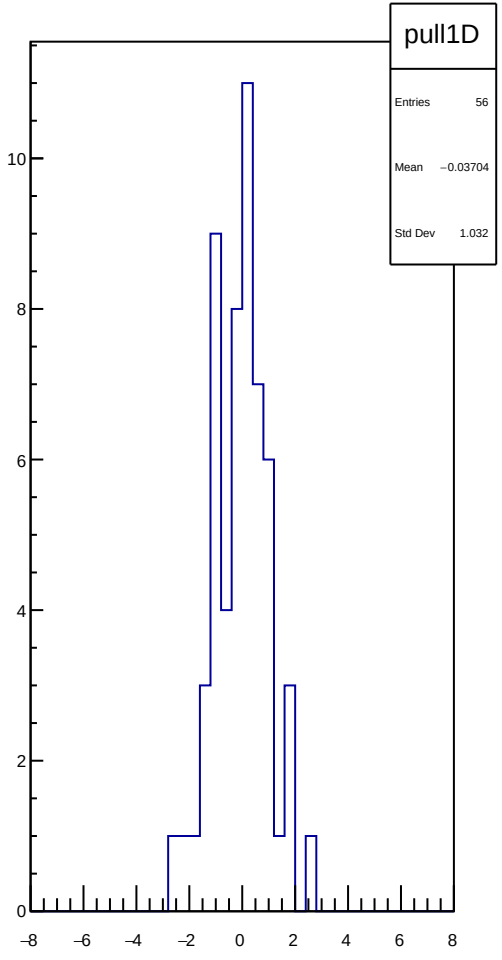

diff_bpm0l01Y_rms vs run
χ² / ndf 2708 / 55
p0 2406 ± 2.313
2900
2800
2700
2600
2500
2400
2300
2200

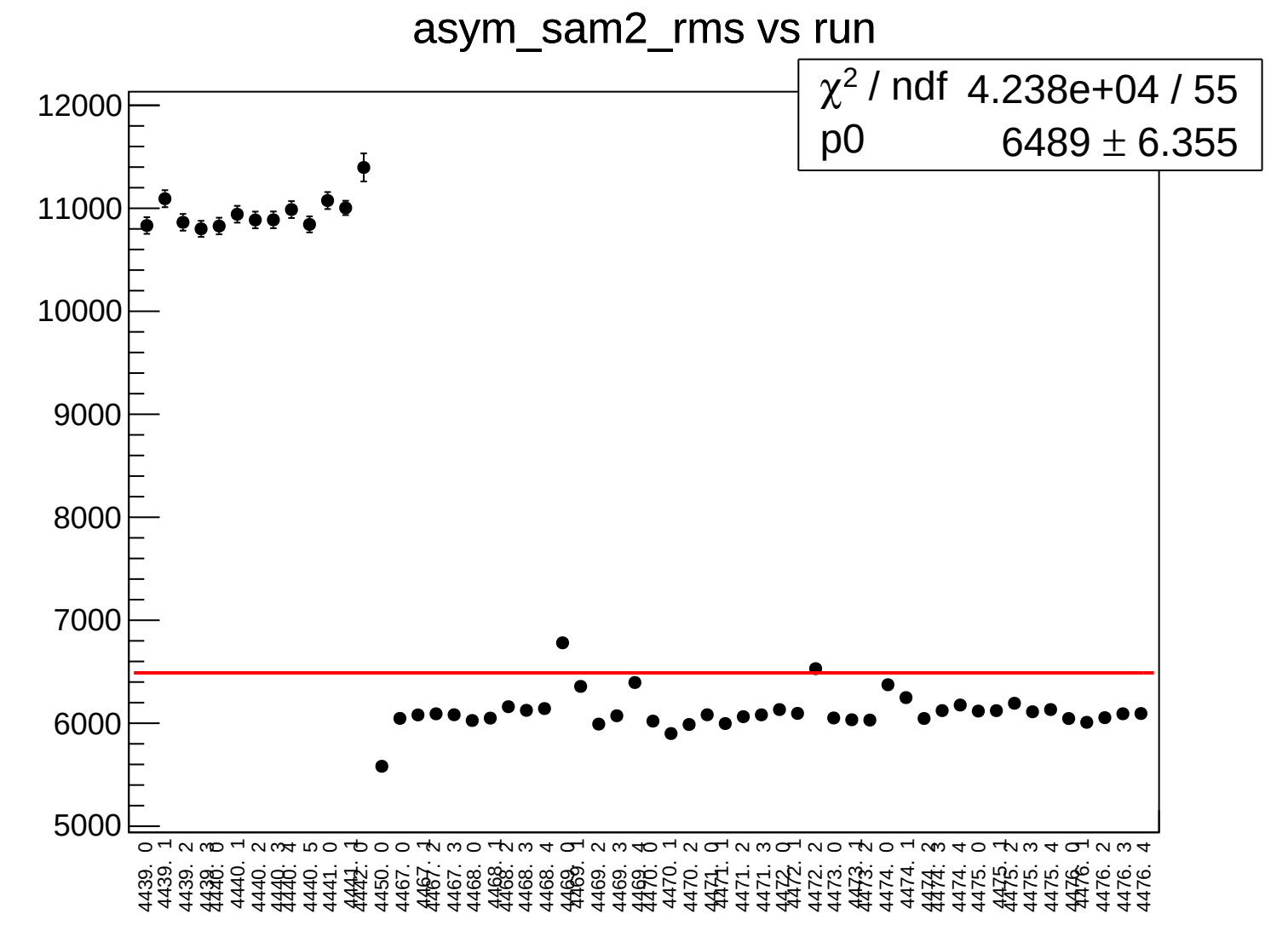

asym_sam1_mean vs run
χ² / ndf 67.48 / 55
p0 −754 ± 469.1
40000
20000
0
−20000
−40000
pull
Entries 56
Mean 235.6
Std Dev 202.8
2
1
0
−1
−2

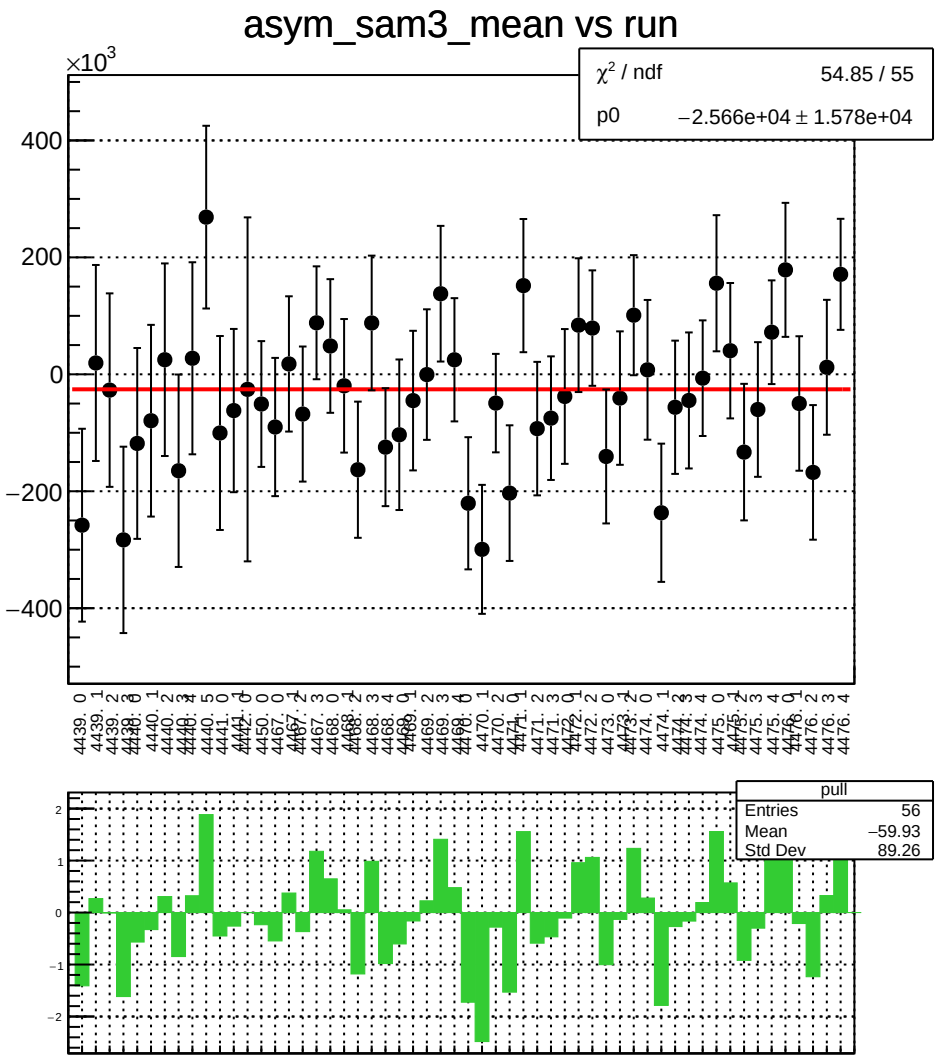

pull1D
Entries 56
Mean 0.01079
Std Dev 1.098
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

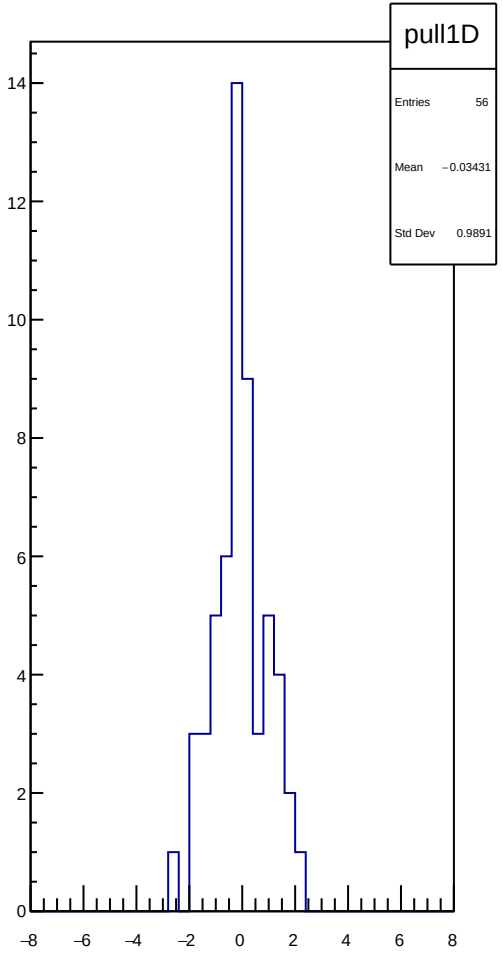

asym_sam1_rms vs run
χ² / ndf 1.49e+05 / 55
p0 320.9 ± 0.3317
1800
1600
1400
1200
1000
800
600
400
200
4439. 0
4439. 1
4439. 2
4440. 1
4440. 2
4440. 5
4441. 0
4450. 0
4467. 0
4467. 2
4467. 3
4468. 0
4468. 2
4468. 3
4468. 4
4469. 2
4469. 3
4470. 1
4470. 2
4471. 2
4471. 3
4472. 2
4473. 0
4474. 0
4474. 1
4474. 4
4475. 0
4475. 3
4475. 4
4476. 2
4476. 3
4476. 4

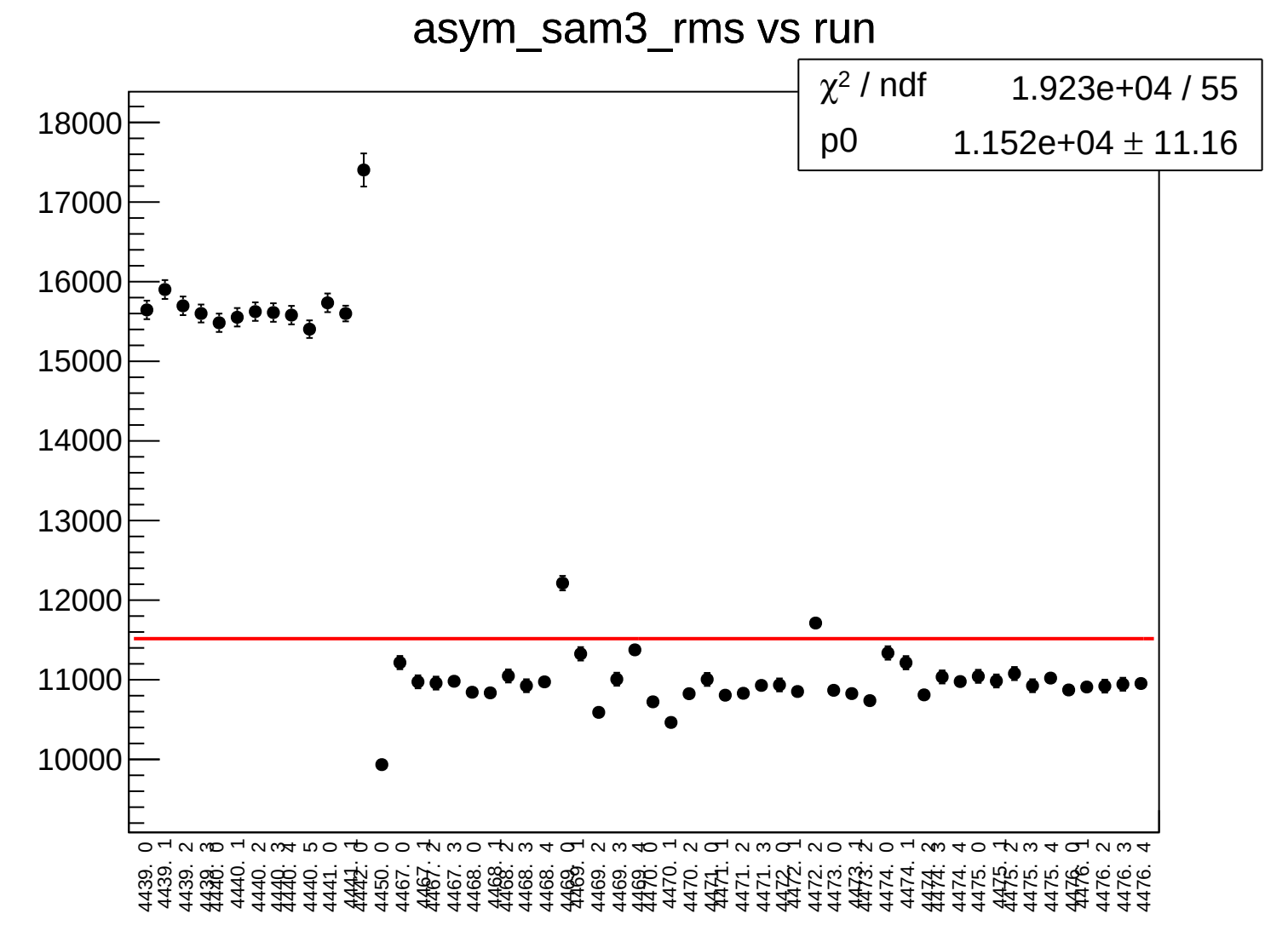

asym_sam2_mean vs run
×10^3
χ² / ndf 59.68 / 55
p0 −1.952e+04 ± 8987
300
200
100
0
−100
−200
−300
pull
Entries 56
Mean −81.99
Std Dev 112.4
3
2
1
0
−1
−2

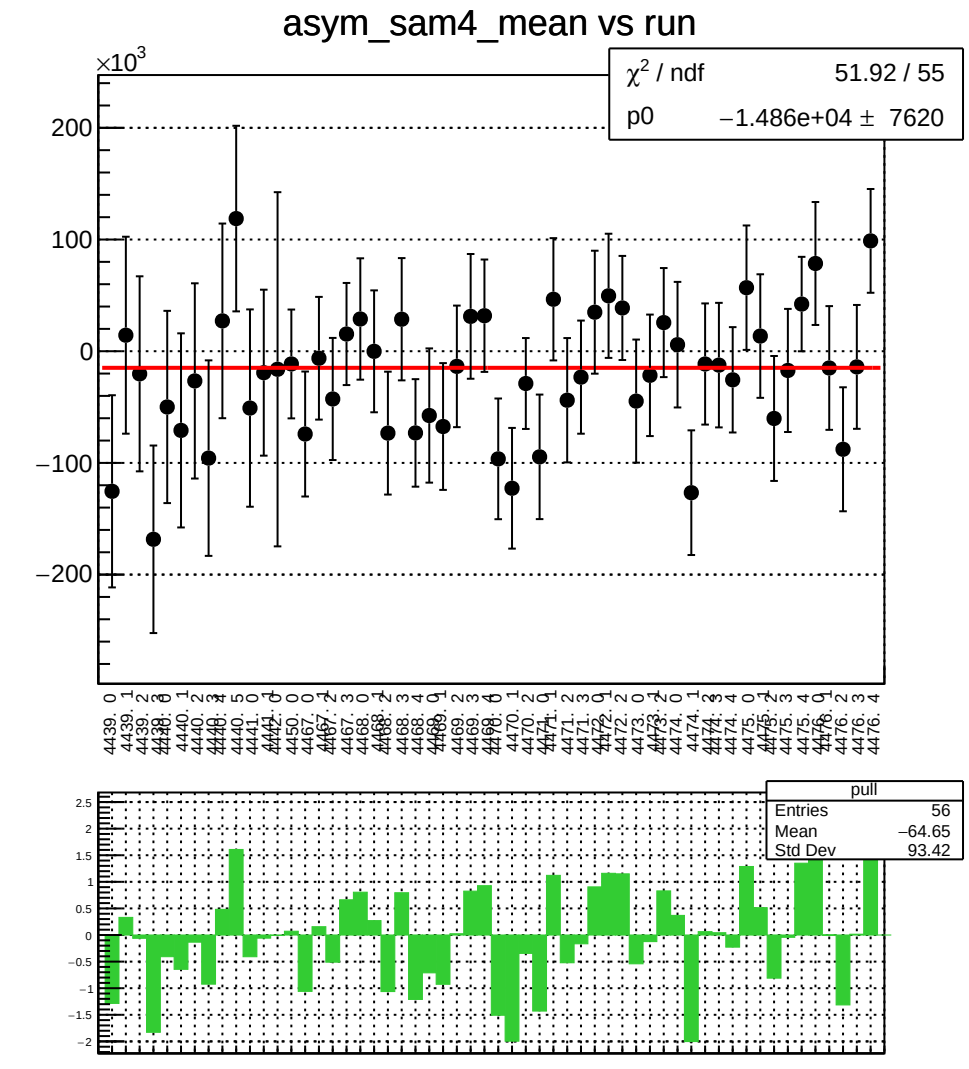

pull1D
Entries 56
Mean −0.03704
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

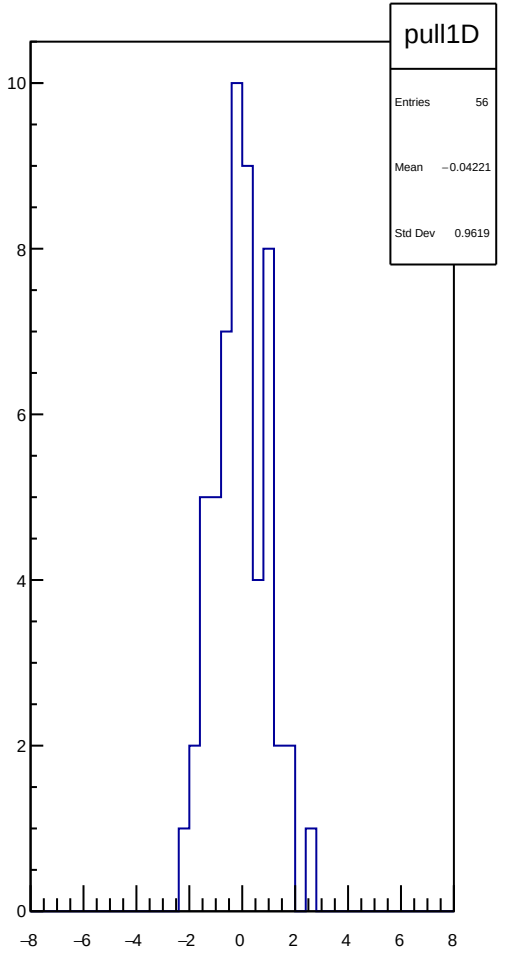

asym_sam2_rms vs run
χ² / ndf 4.238e+04 / 55
p0 6489 ± 6.355
12000
11000
10000
9000
8000
7000
6000
5000

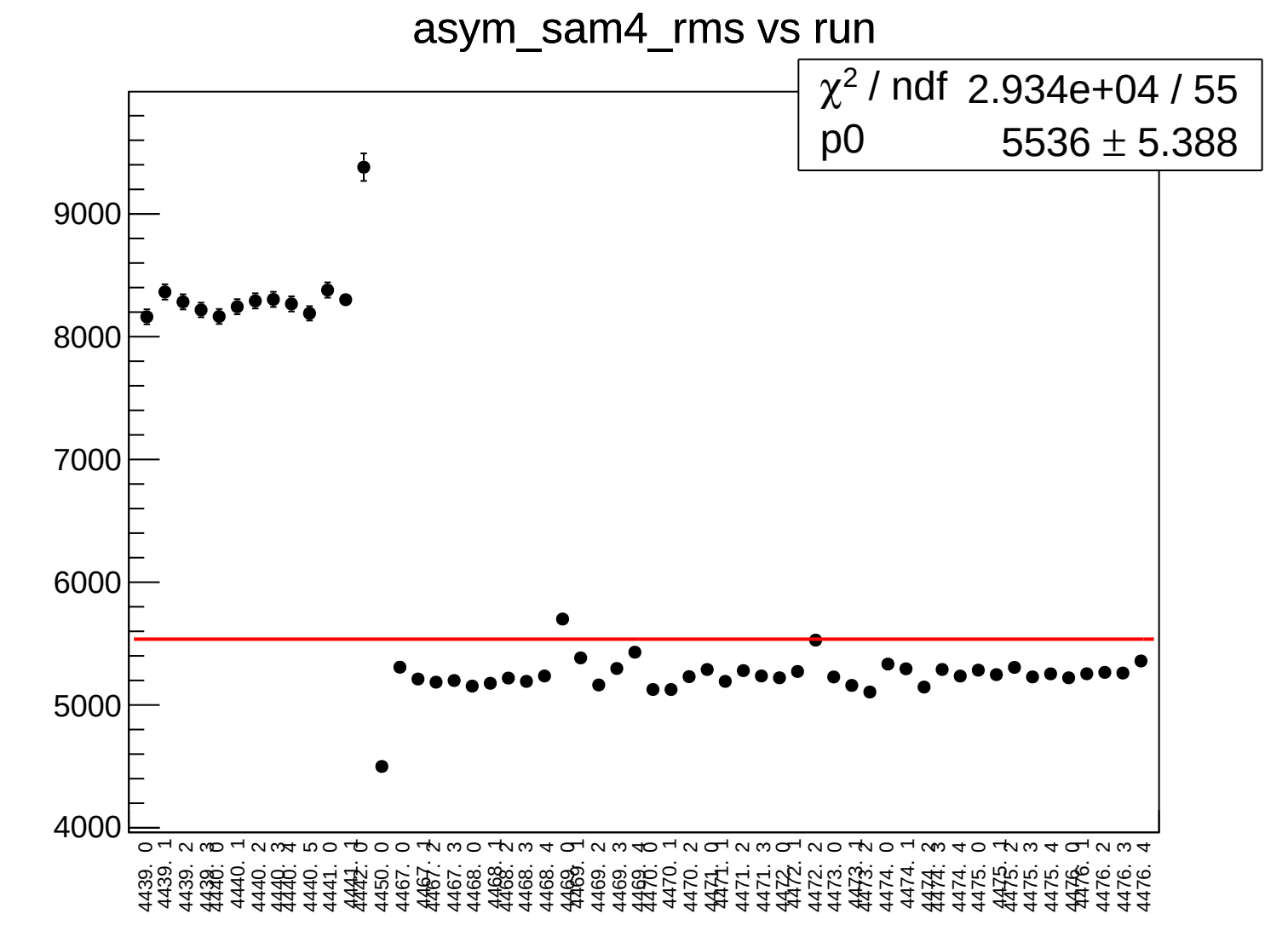

asym_sam3_mean vs run
×10^3
χ² / ndf 54.85 / 55
p0 −2.566e+04 ± 1.578e+04
400
200
0
−200
−400
pull
Entries 56
Mean −59.93
Std Dev 89.26
2
1
0
−1
−2

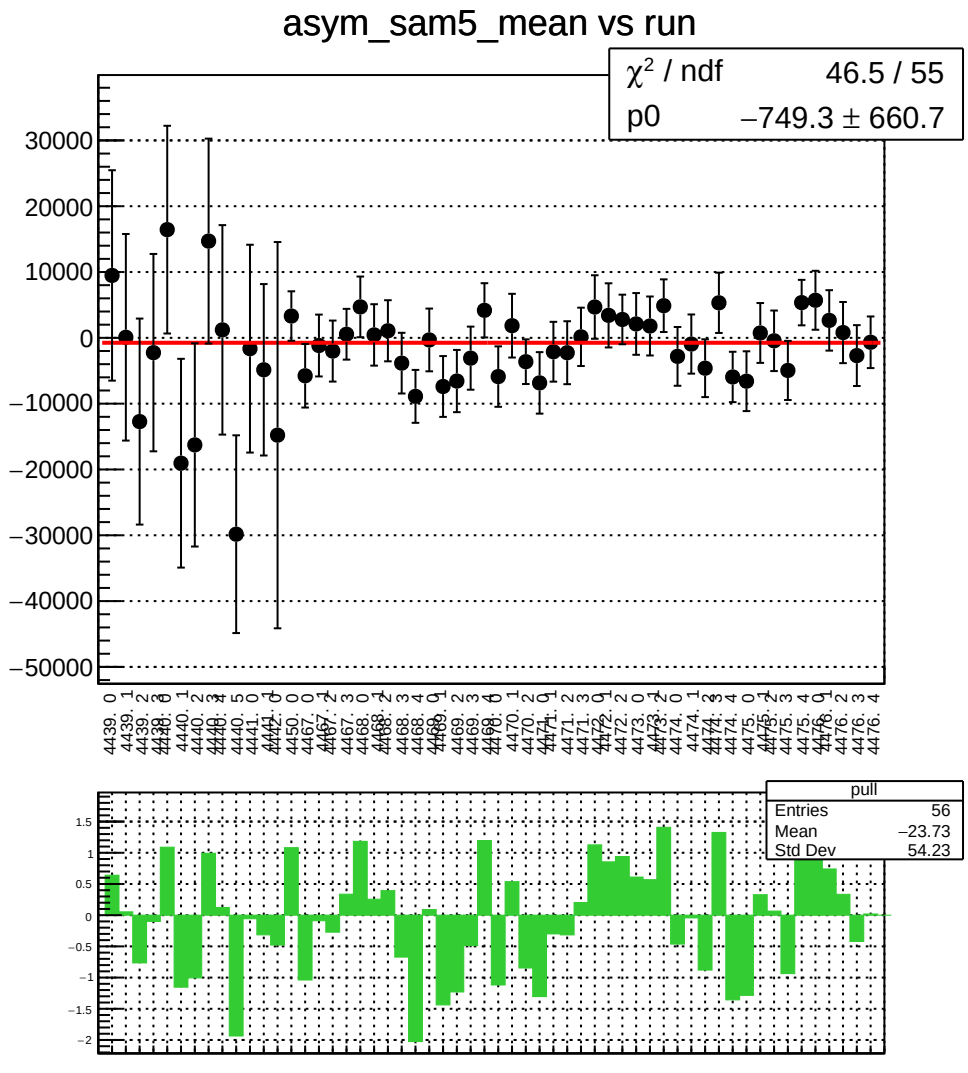

pull1D
Entries 56
Mean −0.03431
Std Dev 0.9891
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

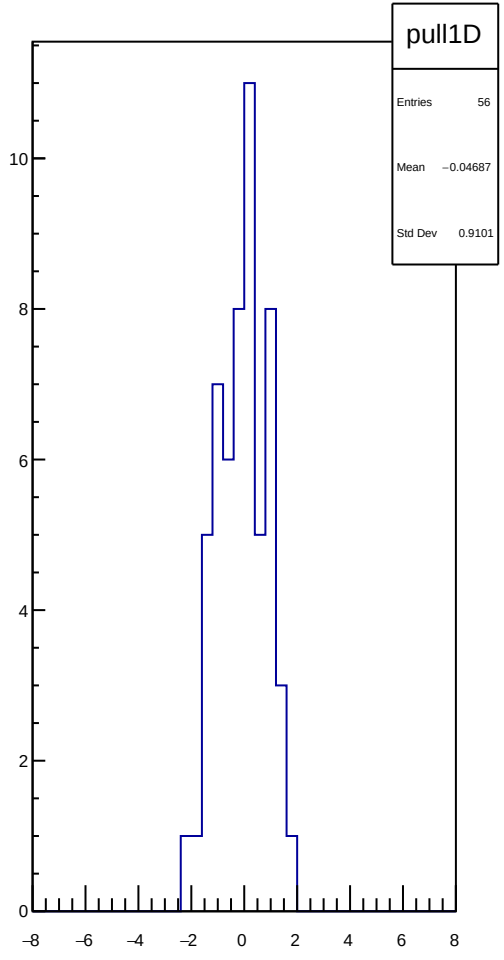

asym_sam3_rms vs run
χ² / ndf 1.923e+04 / 55
p0 1.152e+04 ± 11.16
18000
17000
16000
15000
14000
13000
12000
11000
10000

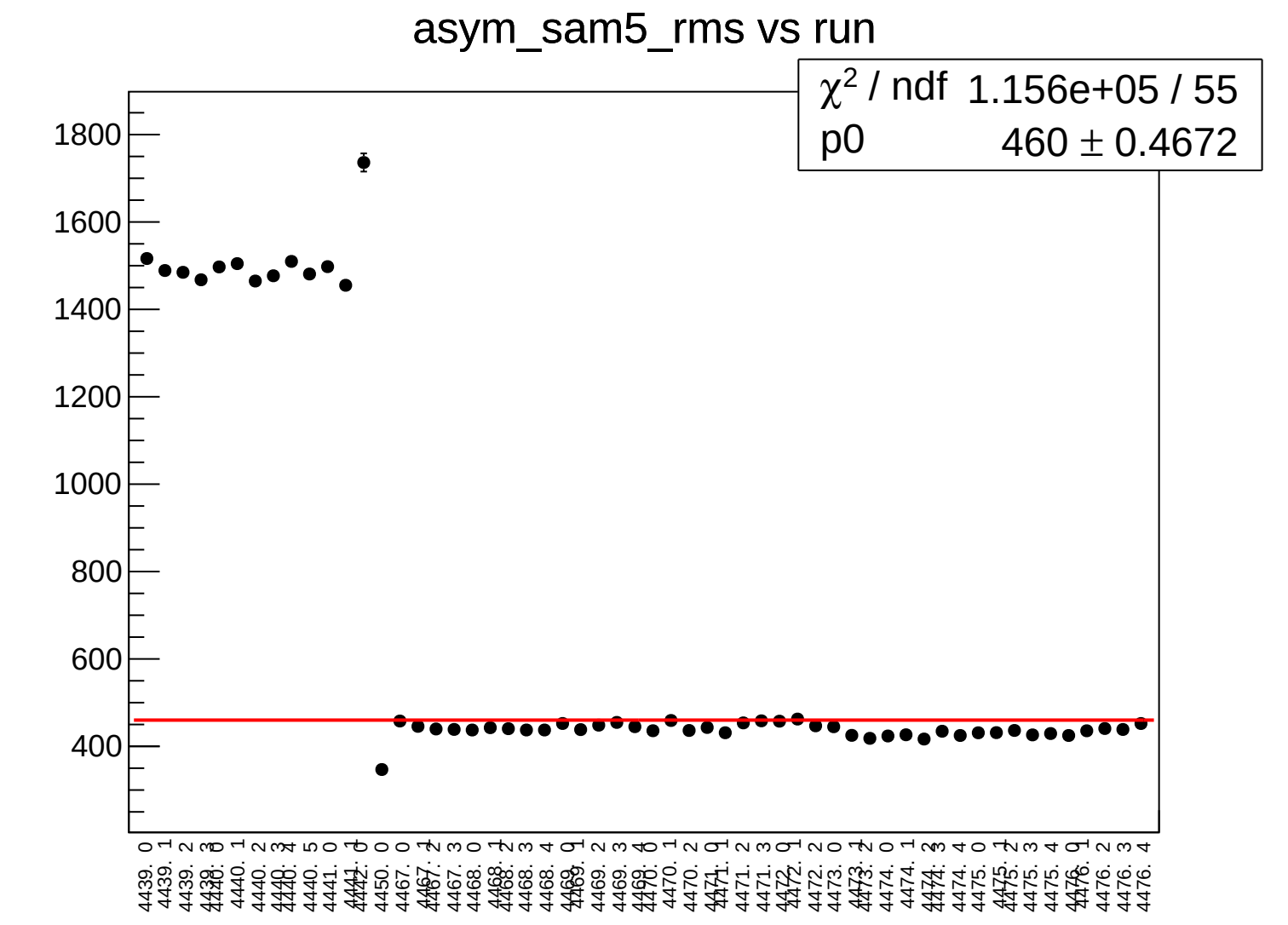

asym_sam4_mean vs run
×10^3
χ² / ndf 51.92 / 55
p0 −1.486e+04 ± 7620
200
100
0
−100
−200
pull
Entries 56
Mean −64.65
Std Dev 93.42
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

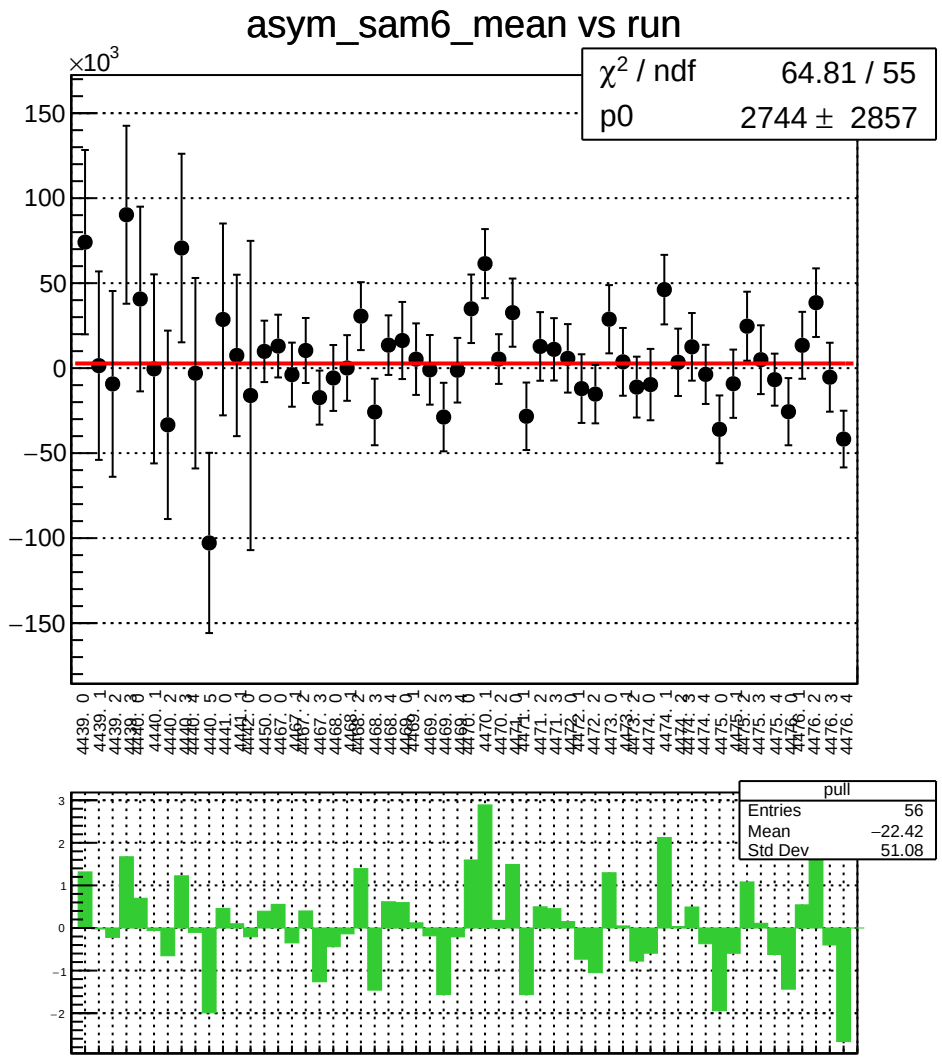

pull1D
Entries 56
Mean −0.04221
Std Dev 0.9619
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

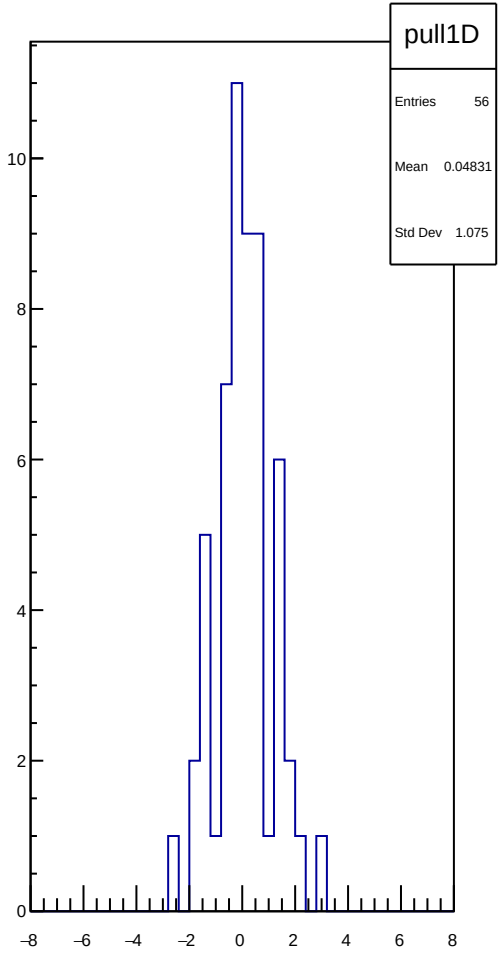

asym_sam4_rms vs run
χ² / ndf 2.934e+04 / 55
p0 5536 ± 5.388
9000
8000
7000
6000
5000
4000

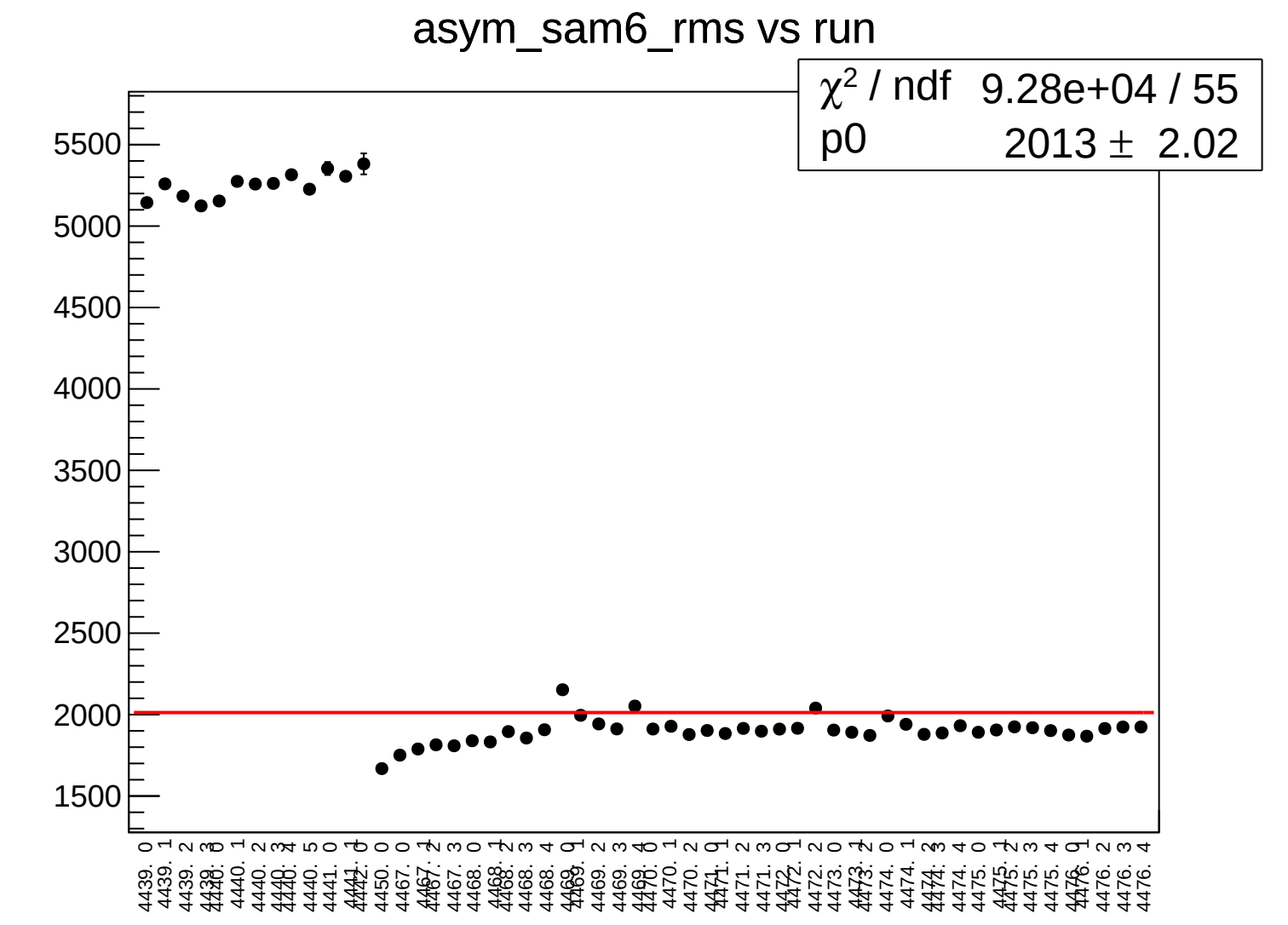

asym_sam5_mean vs run
χ² / ndf 46.5 / 55
p0 −749.3 ± 660.7
pull
Entries 56
Mean −23.73
Std Dev 54.23

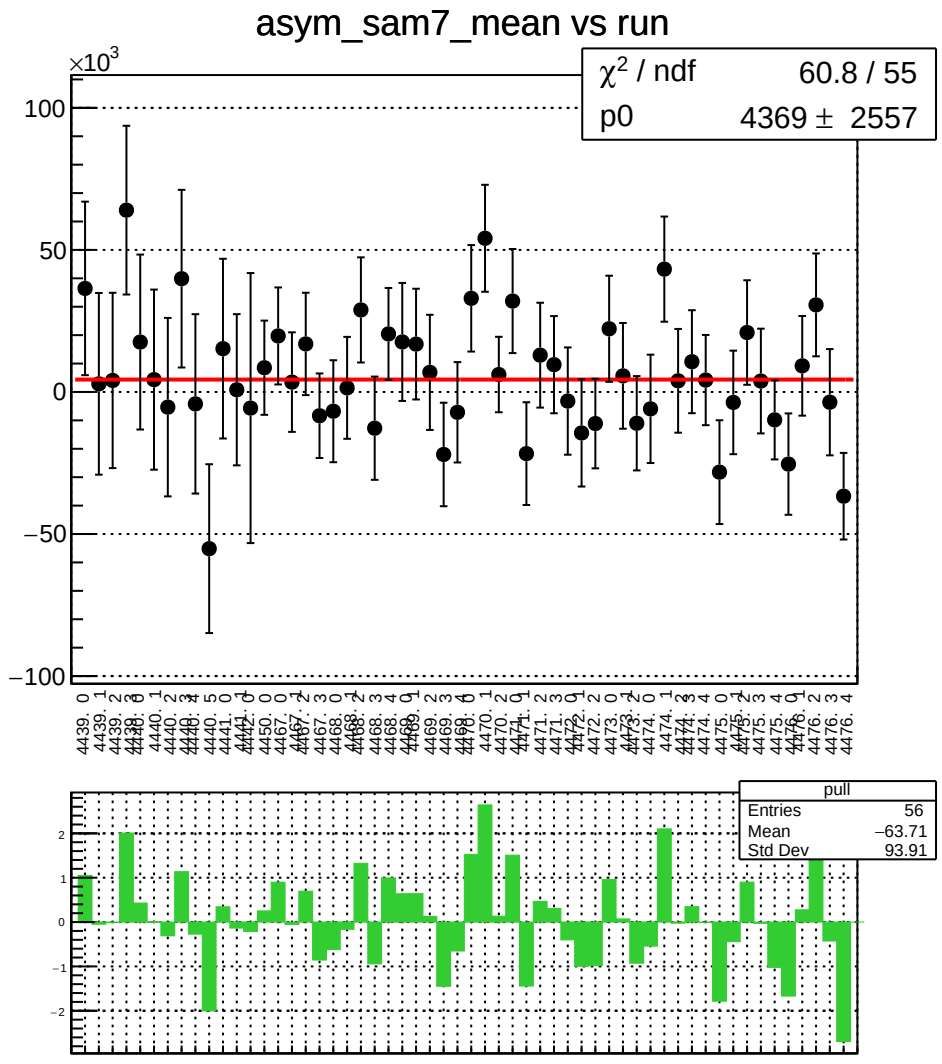

pull1D
Entries 56
Mean −0.04687
Std Dev 0.9101

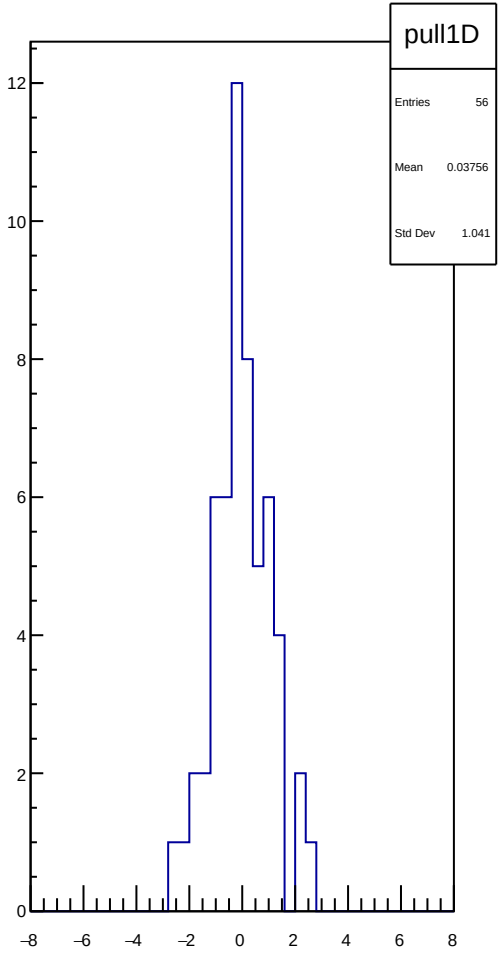

asym_sam5_rms vs run
χ² / ndf 1.156e+05 / 55
p0 460 ± 0.4672
1800
1600
1400
1200
1000
800
600
400
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

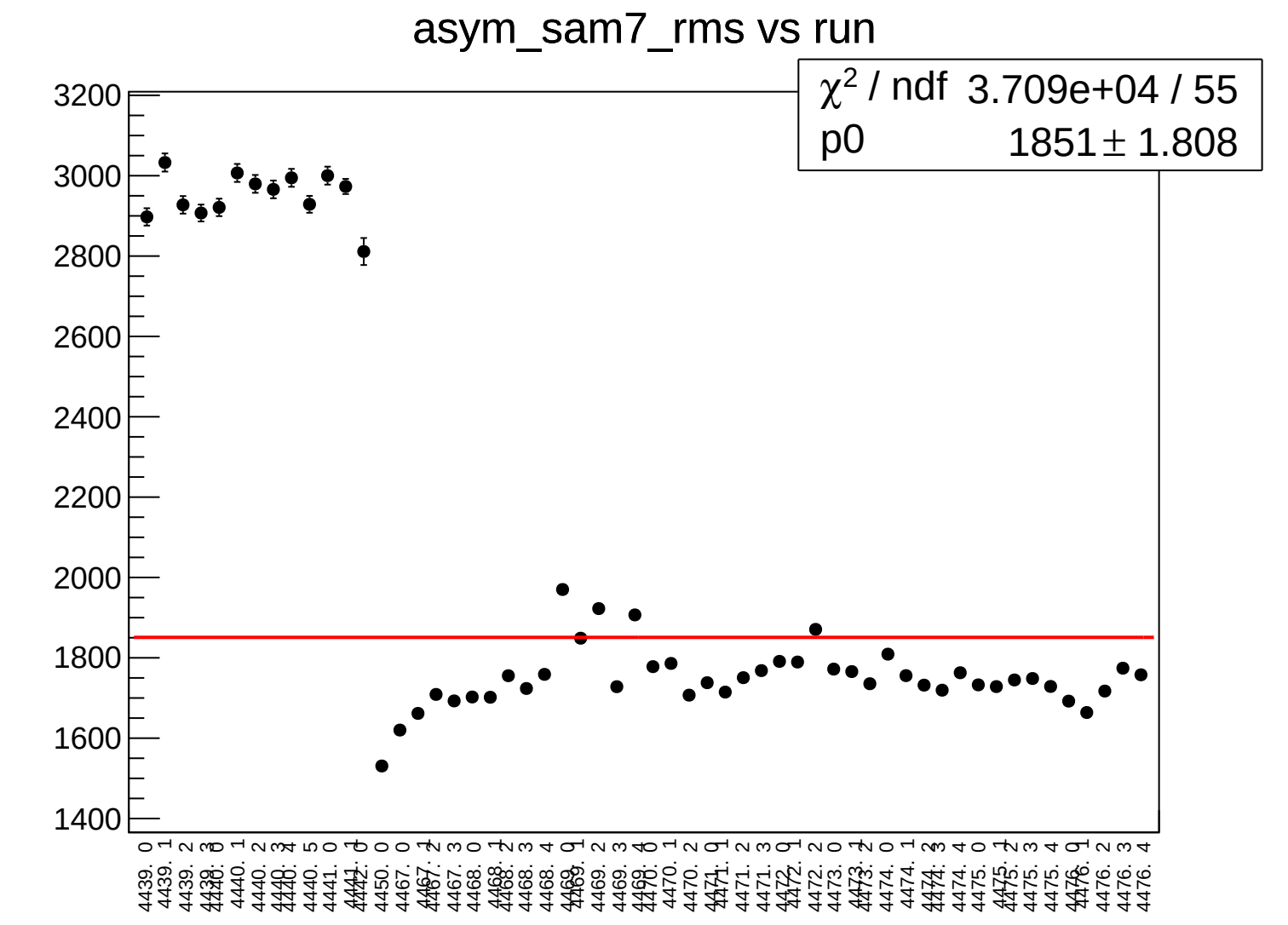

asym_sam6_mean vs run
×10^3
χ^2 / ndf 64.81 / 55
p0 2744 ± 2857
150
100
50
0
−50
−100
−150
pull
Entries 56
Mean −22.42
Std Dev 51.08
3
2
1
0
−1
−2

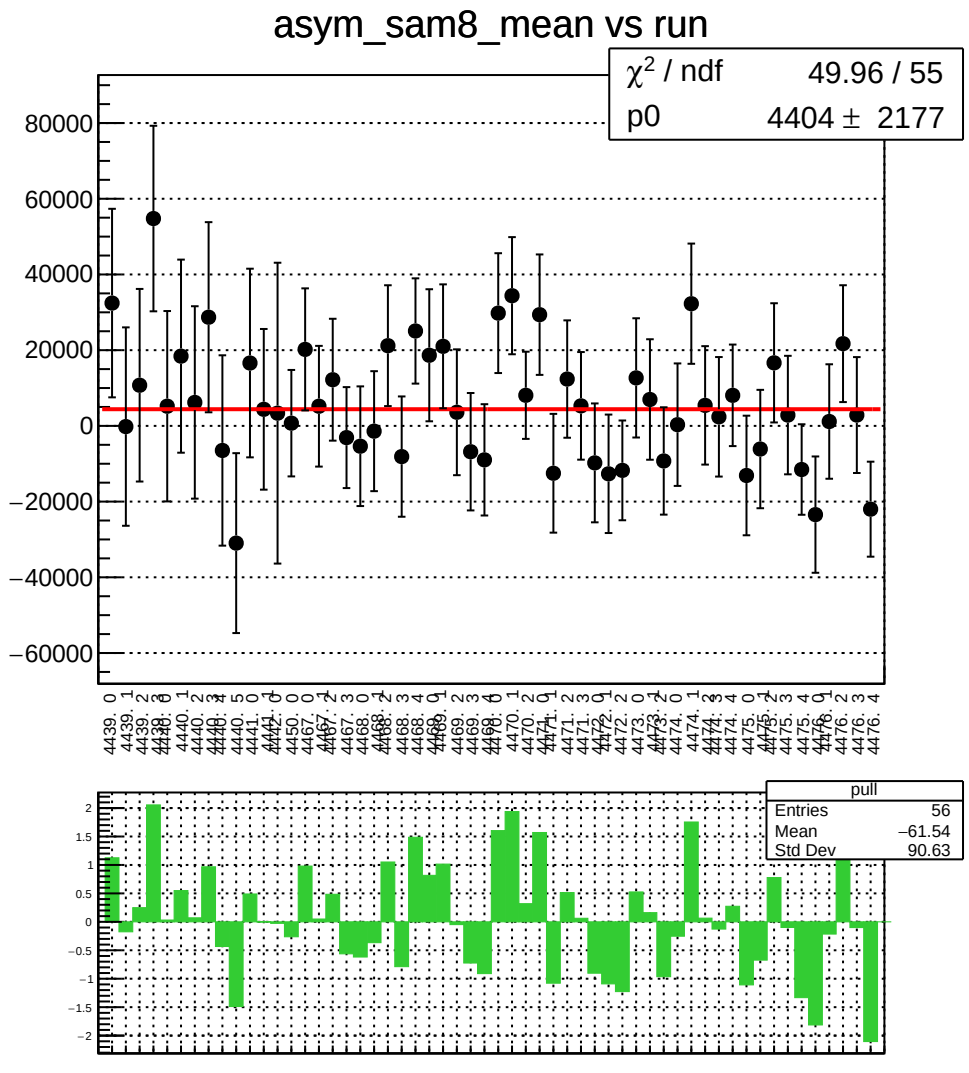

pull1D
Entries 56
Mean 0.04831
Std Dev 1.075
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

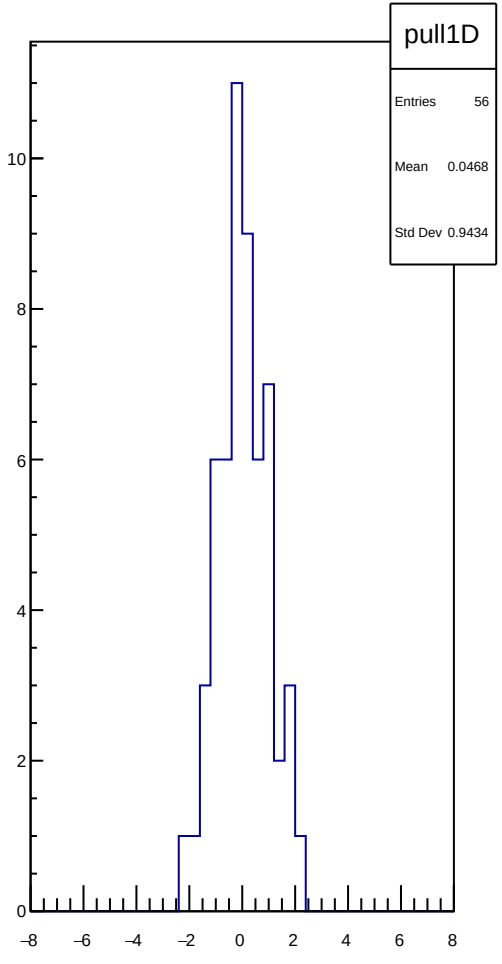

asym_sam6_rms vs run
χ² / ndf 9.28e+04 / 55
p0 2013 ± 2.02
5500
5000
4500
4000
3500
3000
2500
2000
1500

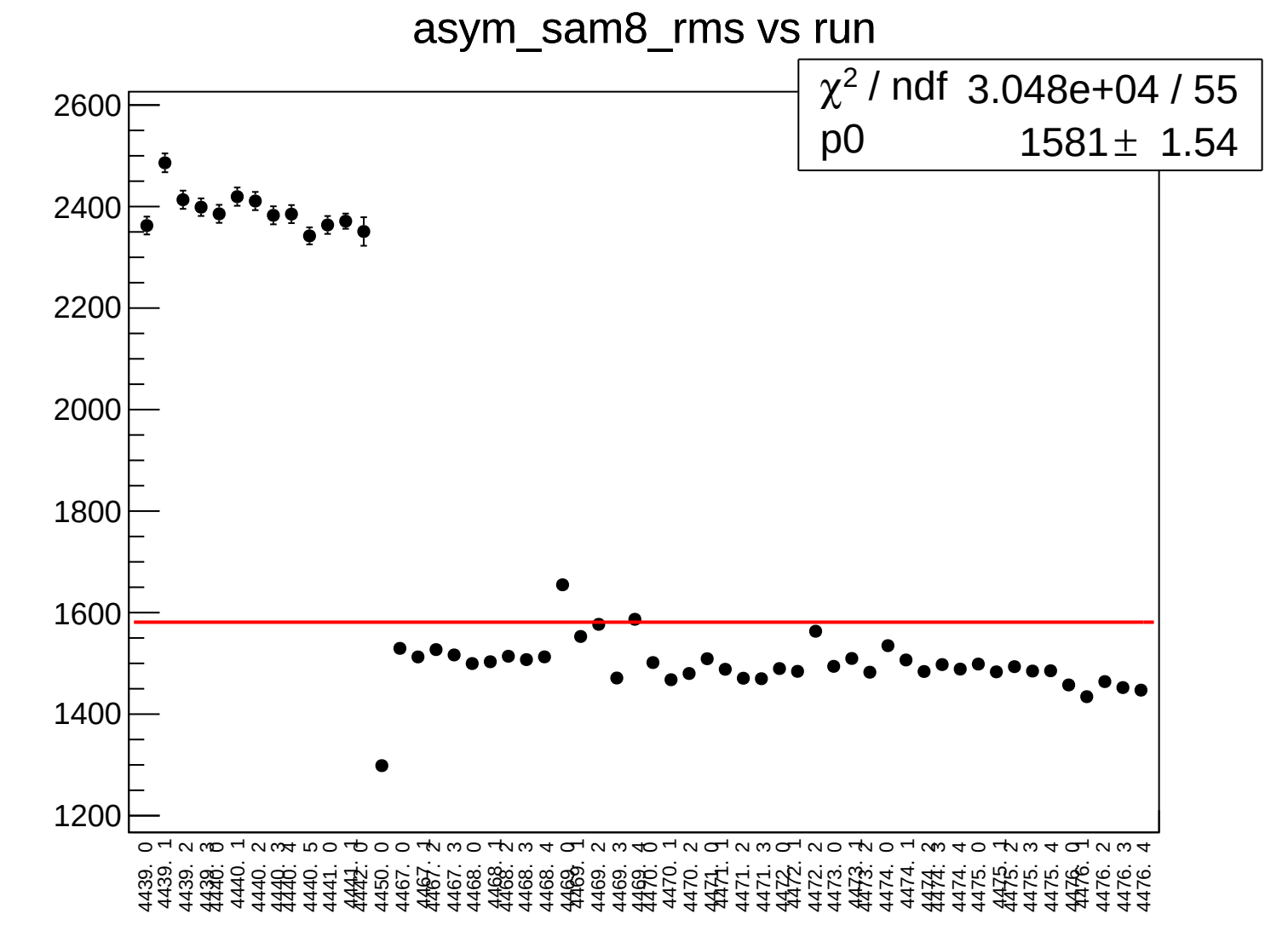

asym_sam7_mean vs run
×10^3
χ² / ndf 60.8 / 55
p0 4369 ± 2557
pull
Entries 56
Mean −63.71
Std Dev 93.91

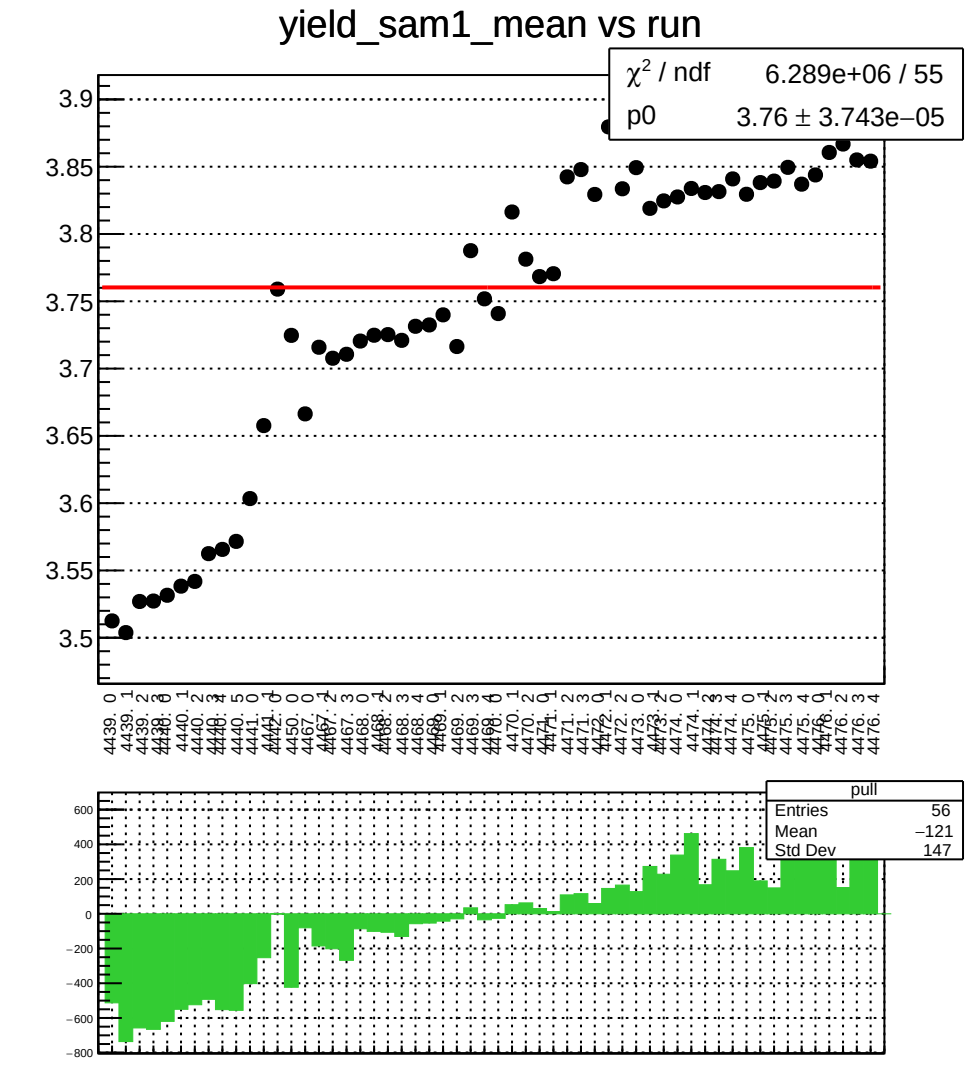

pull1D
Entries 56
Mean 0.03756
Std Dev 1.041

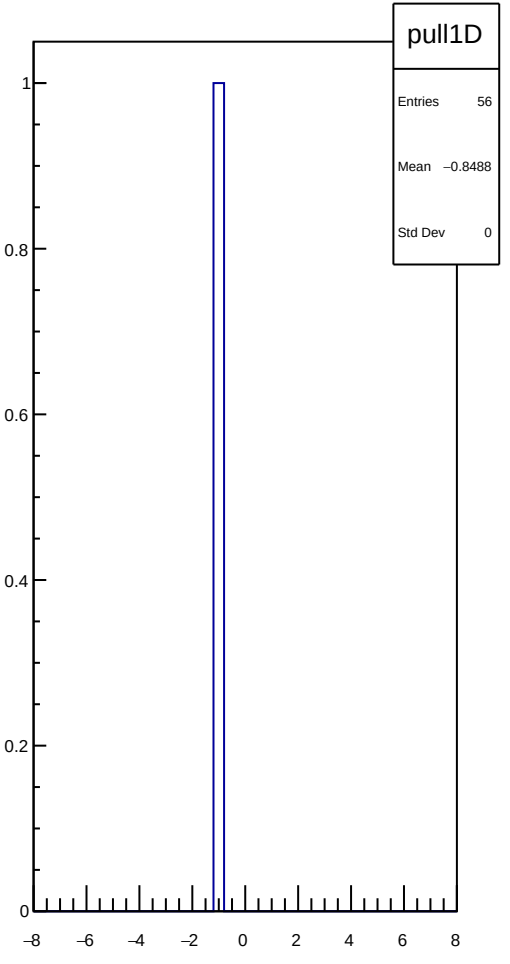

asym_sam7_rms vs run
χ² / ndf 3.709e+04 / 55
p0 1851 ± 1.808
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

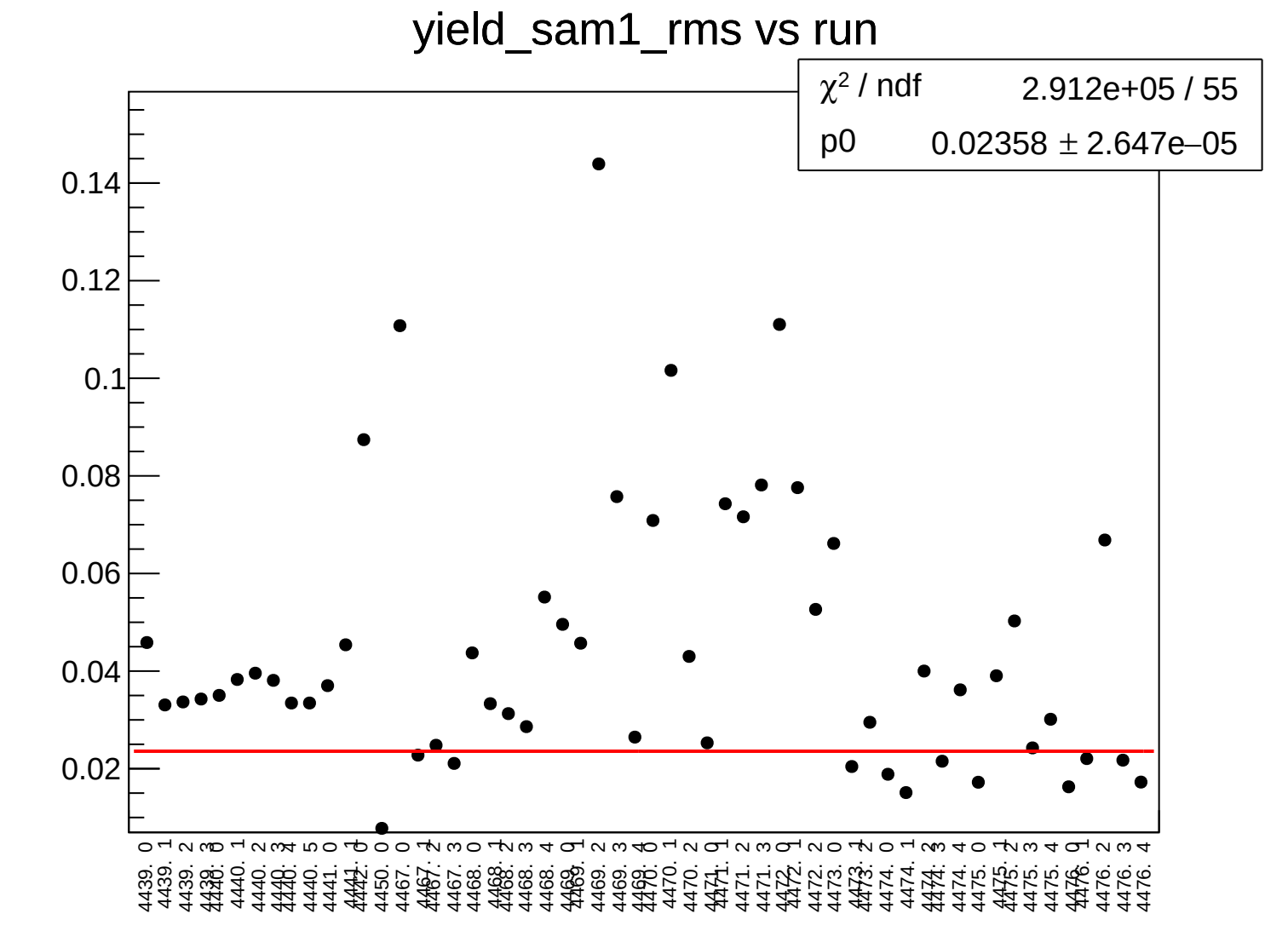

asym_sam8_mean vs run
χ² / ndf 49.96 / 55
p0 4404 ± 2177
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 56
Mean −61.54
Std Dev 90.63
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

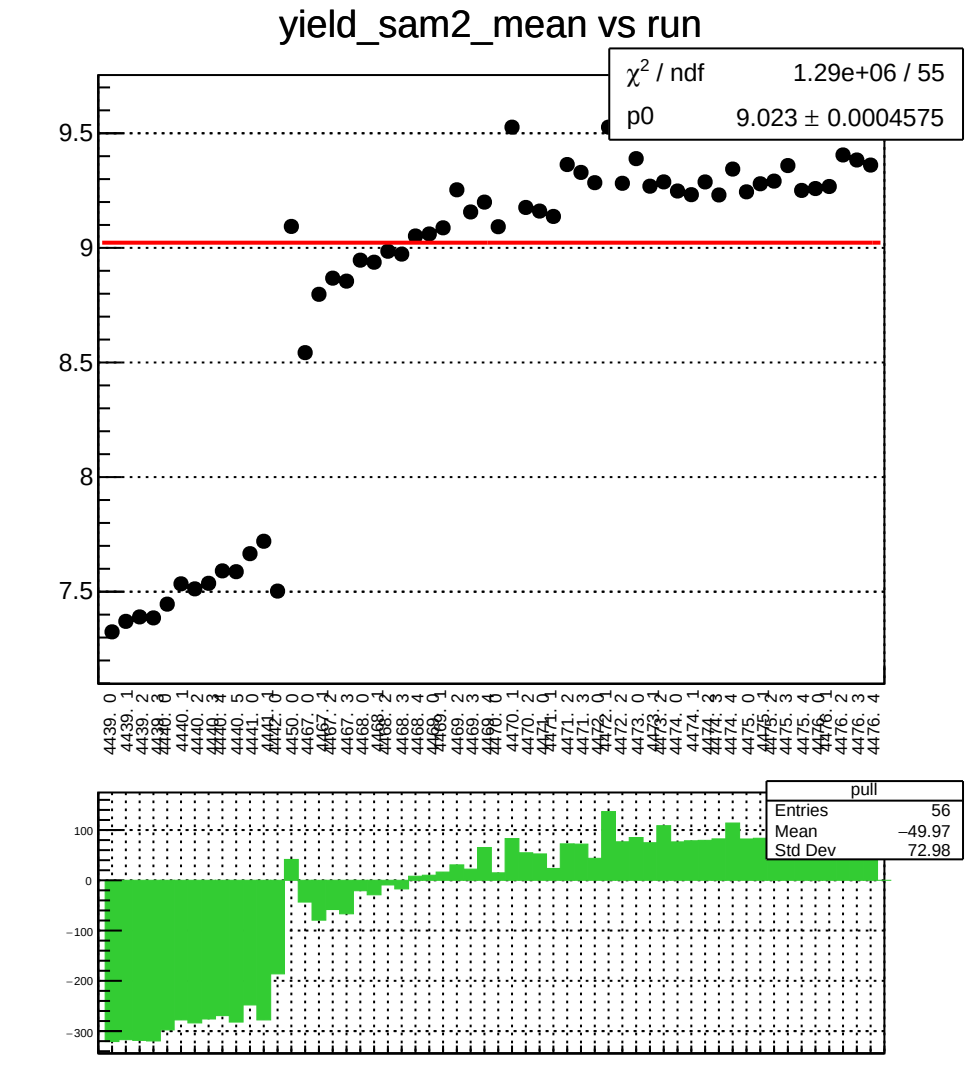

pull1D
Entries 56
Mean 0.0468
Std Dev 0.9434
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

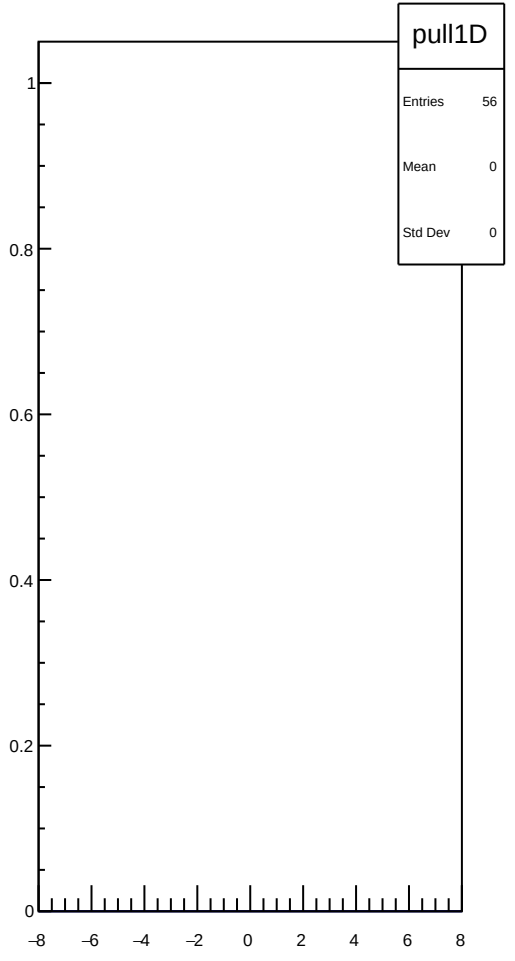

asym_sam8_rms vs run
χ² / ndf 3.048e+04 / 55
p0 1581 ± 1.54
2600
2400
2200
2000
1800
1600
1400
1200
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

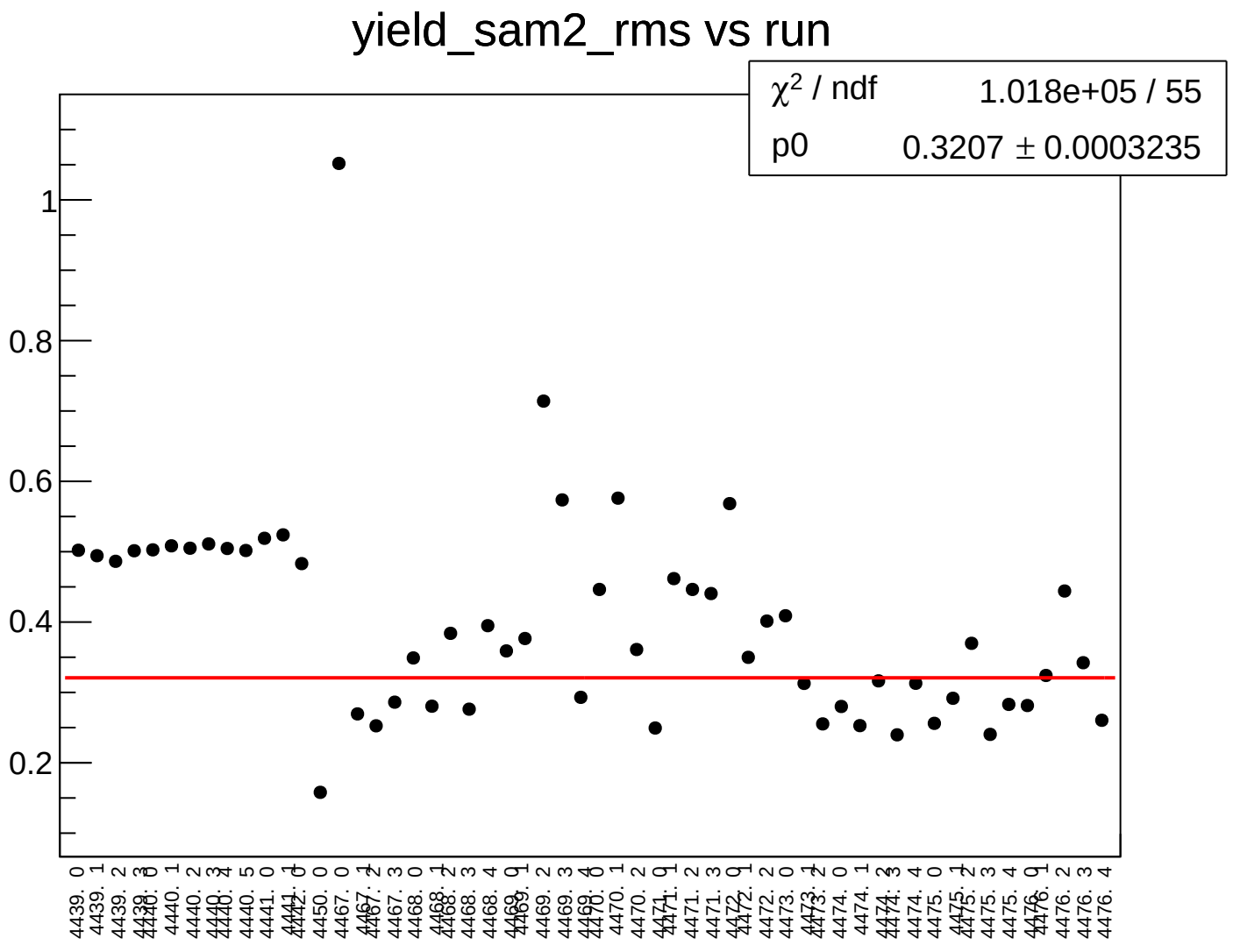

yield_sam1_mean vs run
χ² / ndf 6.289e+06 / 55
p0 3.76 ± 3.743e−05
pull
Entries 56
Mean −121
Std Dev 147

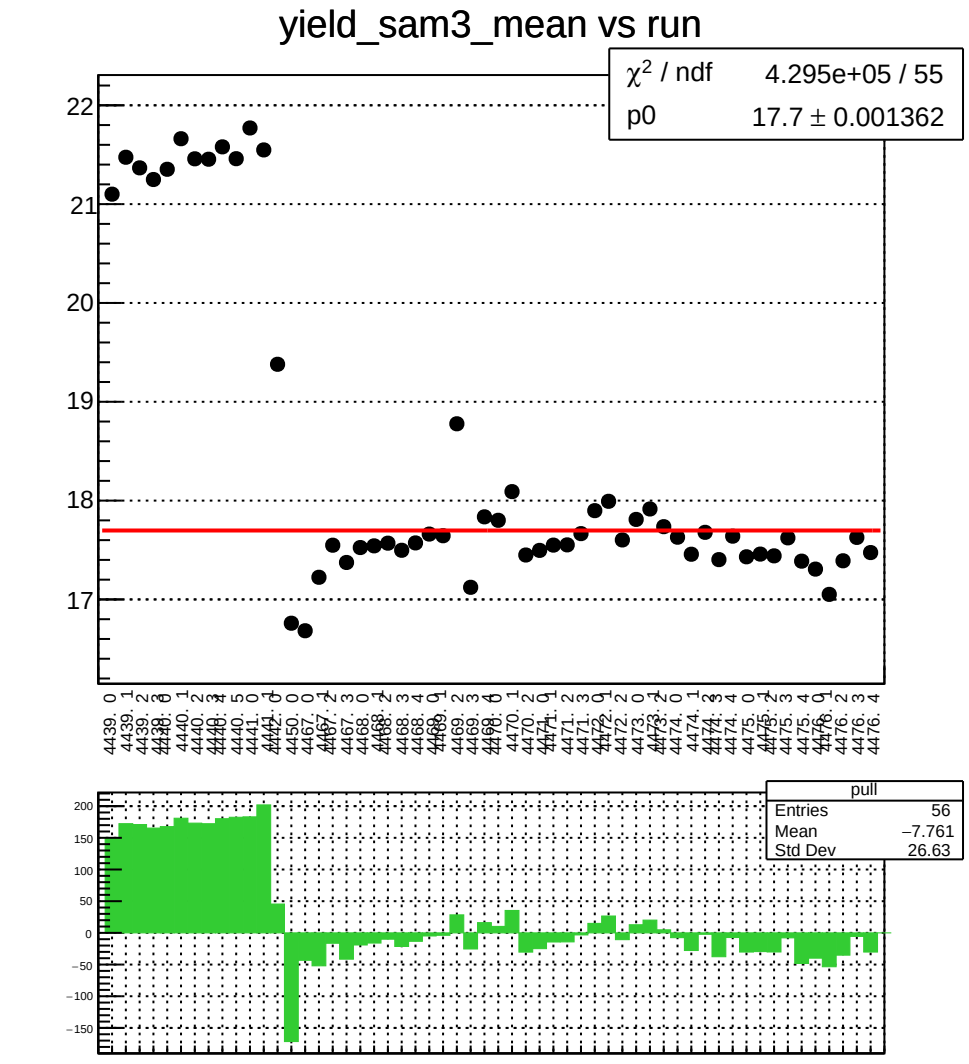

pull1D
Entries 56
Mean −0.8488
Std Dev 0

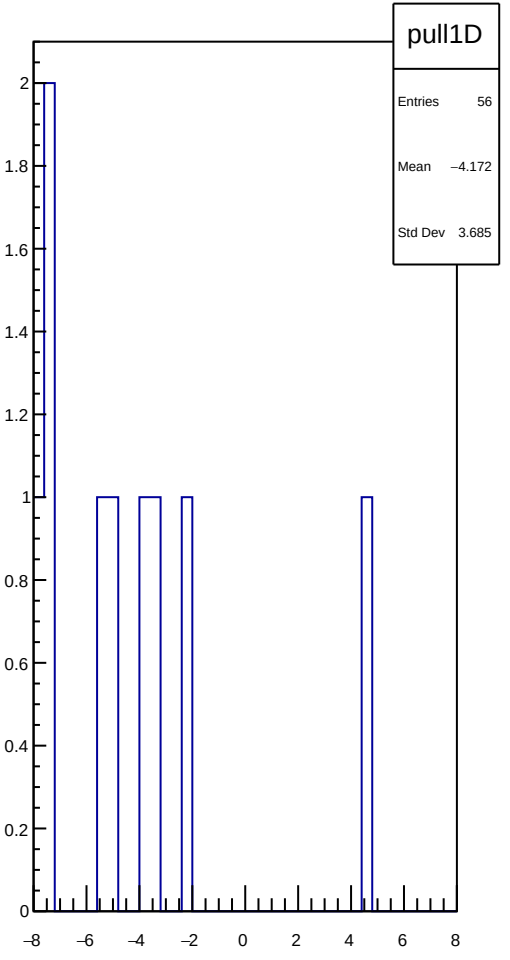

yield_sam1_rms vs run
χ² / ndf 2.912e+05 / 55
p0 0.02358 ± 2.647e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

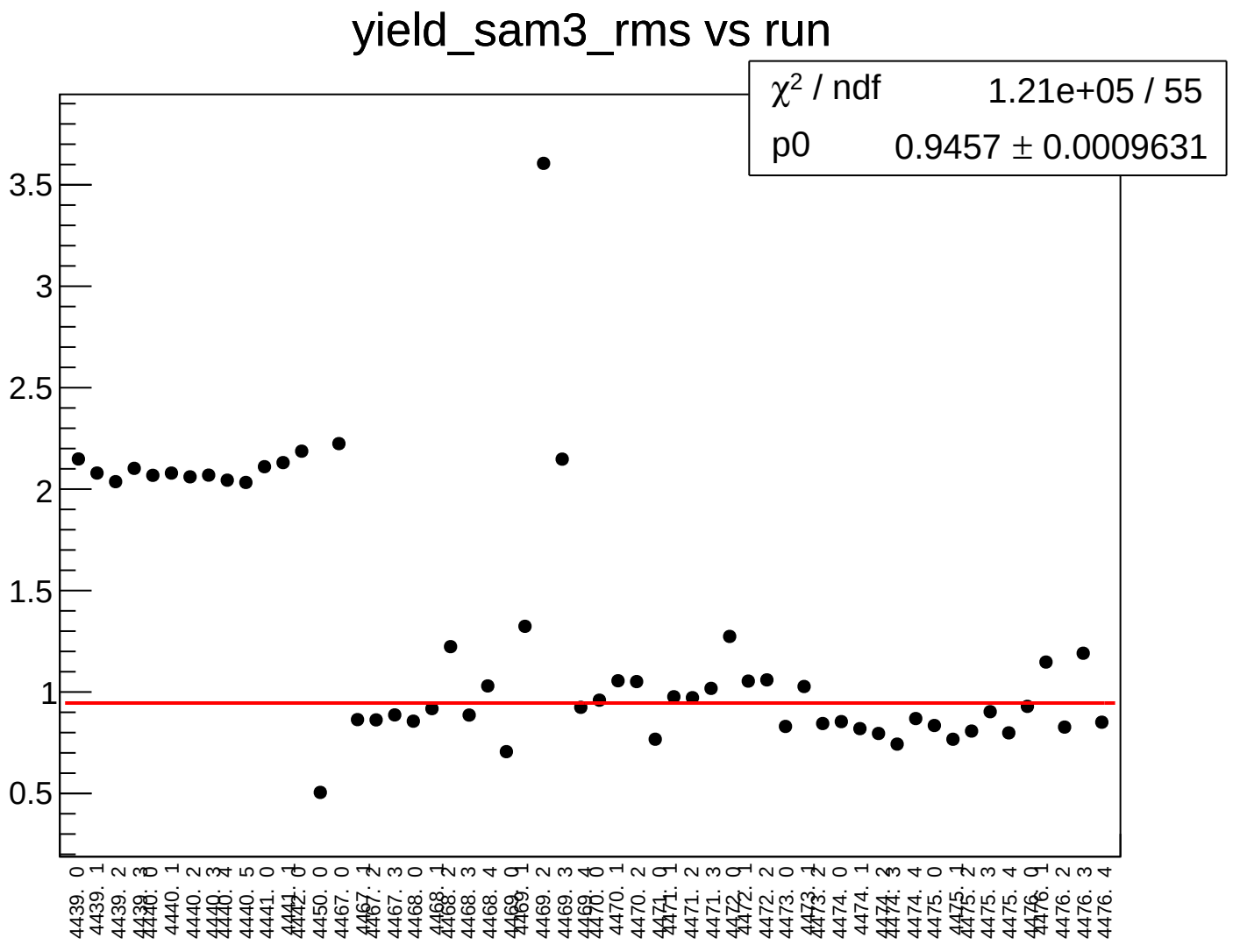

yield_sam2_mean vs run
χ² / ndf 1.29e+06 / 55
p0 9.023 ± 0.0004575
9.5
9
8.5
8
7.5
pull
Entries 56
Mean −49.97
Std Dev 72.98
100
0
−100
−200
−300

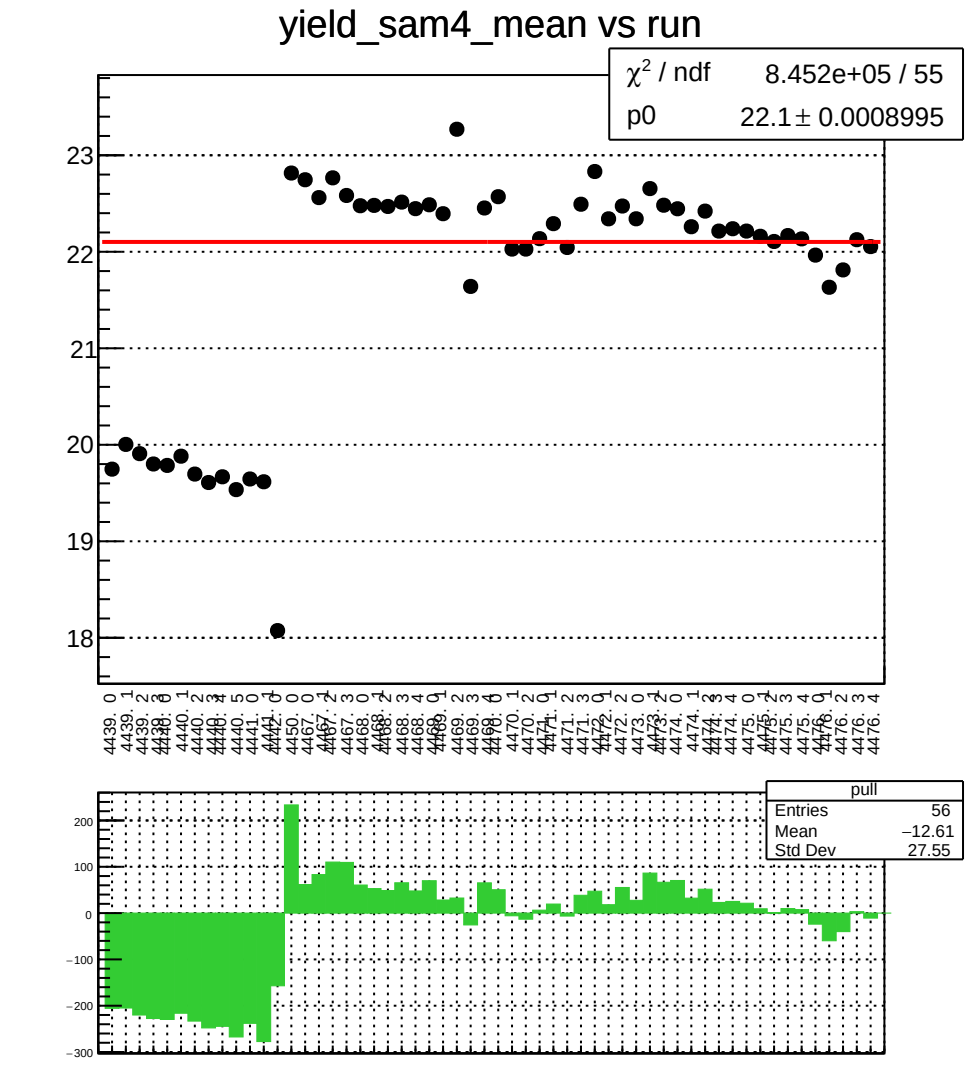

pull1D
Entries 56
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

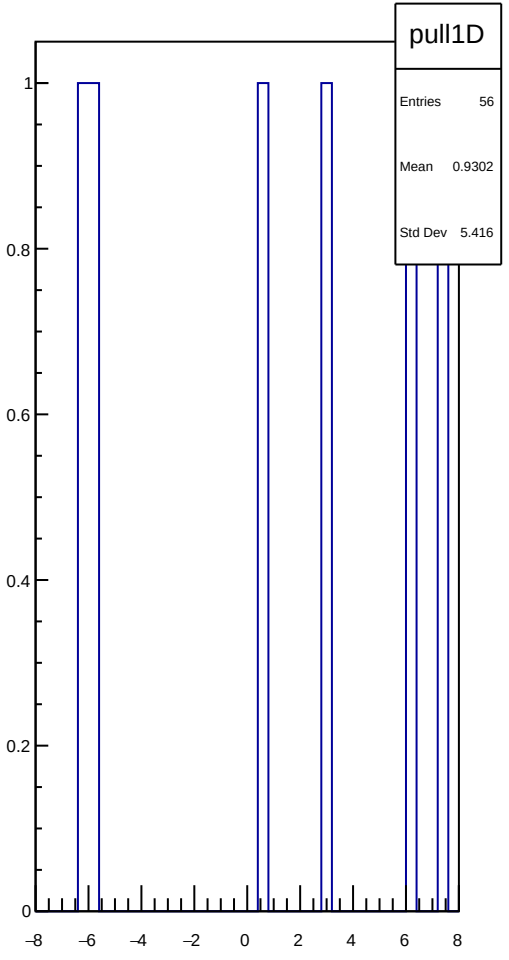

yield_sam2_rms vs run
χ² / ndf 1.018e+05 / 55
p0 0.3207 ± 0.0003235
1
0.8
0.6
0.4
0.2

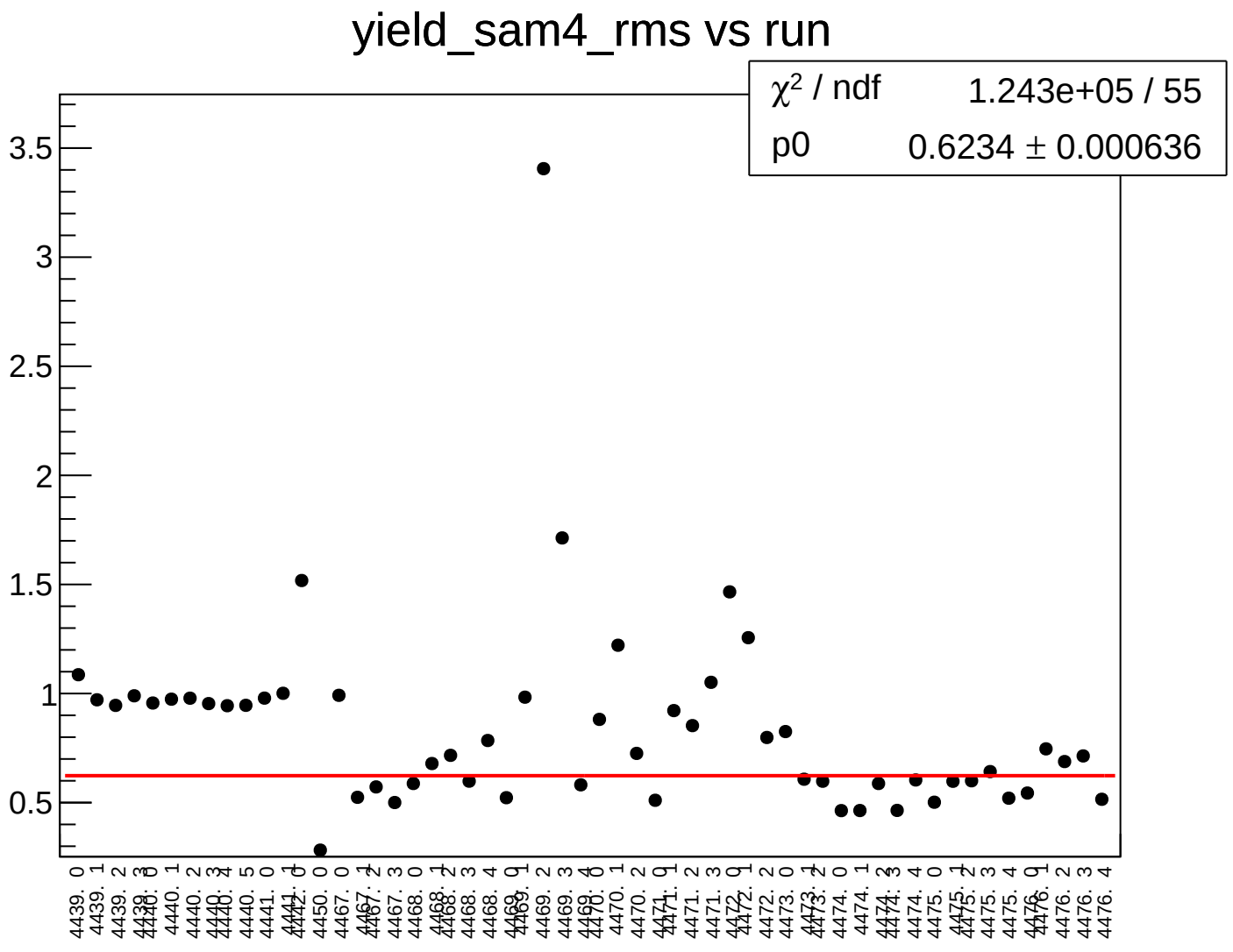

yield_sam3_mean vs run
χ² / ndf 4.295e+05 / 55
p0 17.7 ± 0.001362
pull
Entries 56
Mean −7.761
Std Dev 26.63

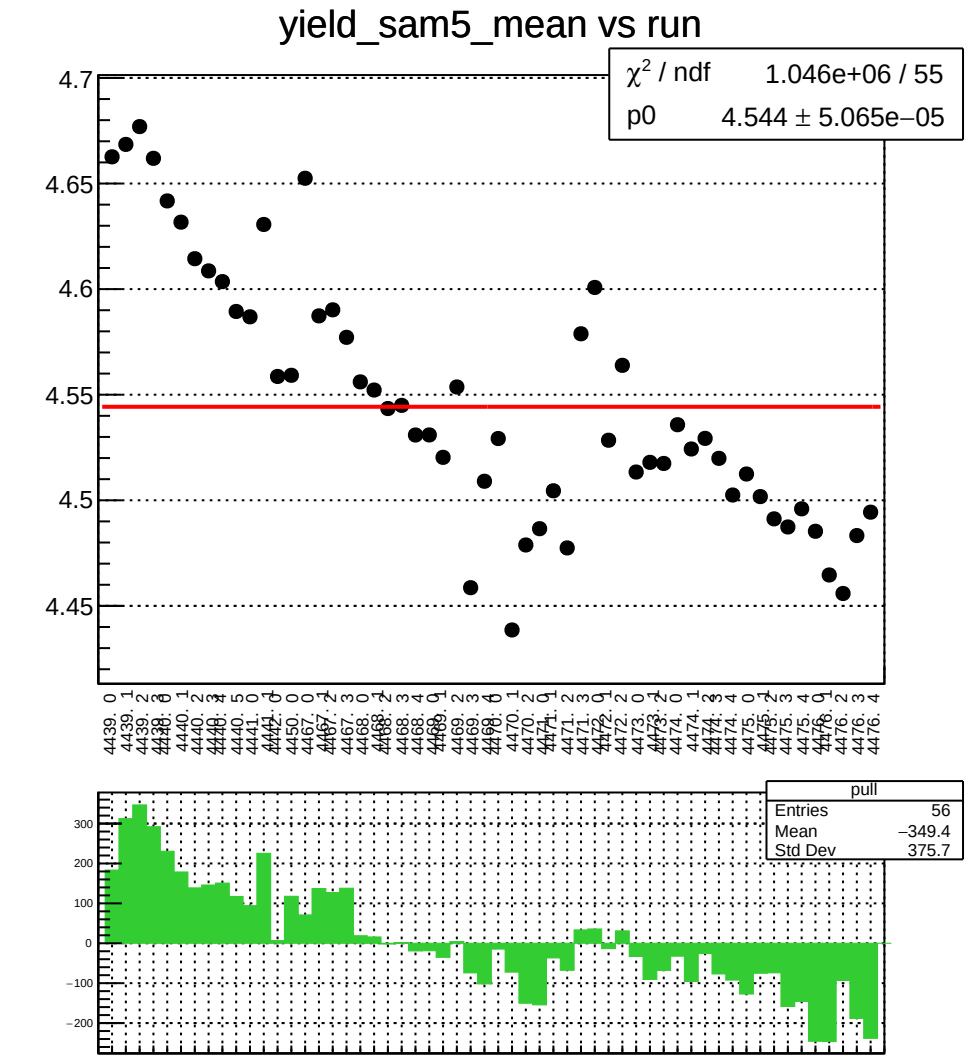

pull1D
Entries 56
Mean −4.172
Std Dev 3.685

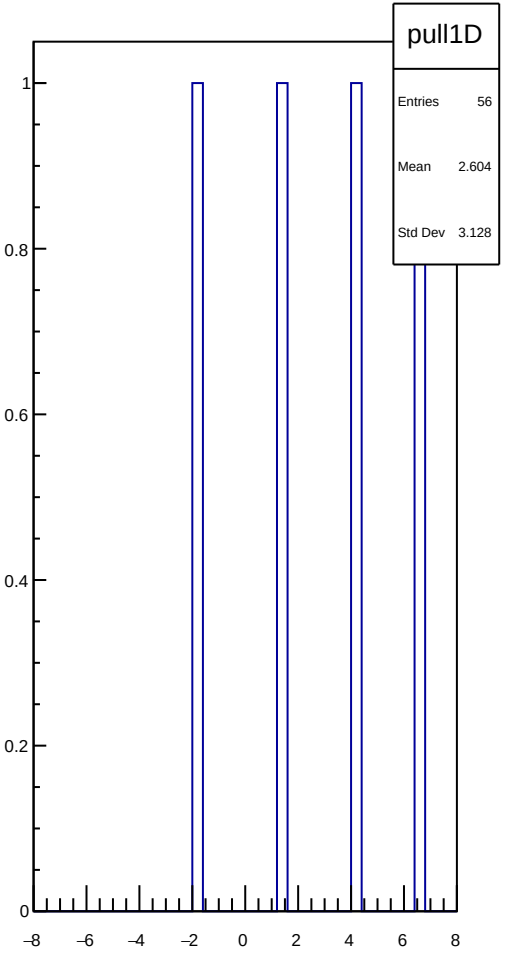

yield_sam3_rms vs run
χ² / ndf 1.21e+05 / 55
p0 0.9457 ± 0.0009631
3.5
3
2.5
2
1.5
1
0.5

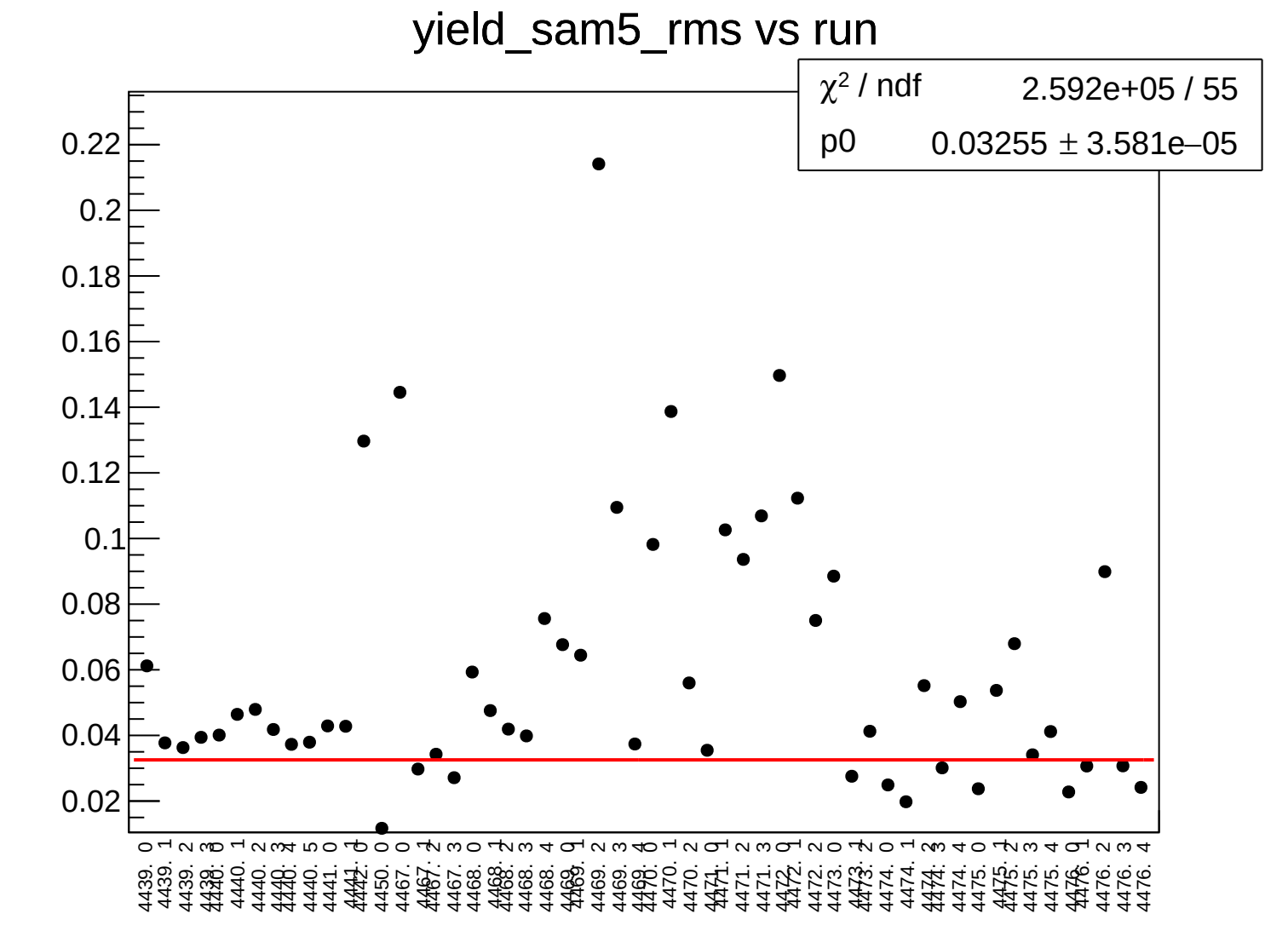

yield_sam4_mean vs run
χ² / ndf 8.452e+05 / 55
p0 22.1 ± 0.0008995
pull
Entries 56
Mean −12.61
Std Dev 27.55

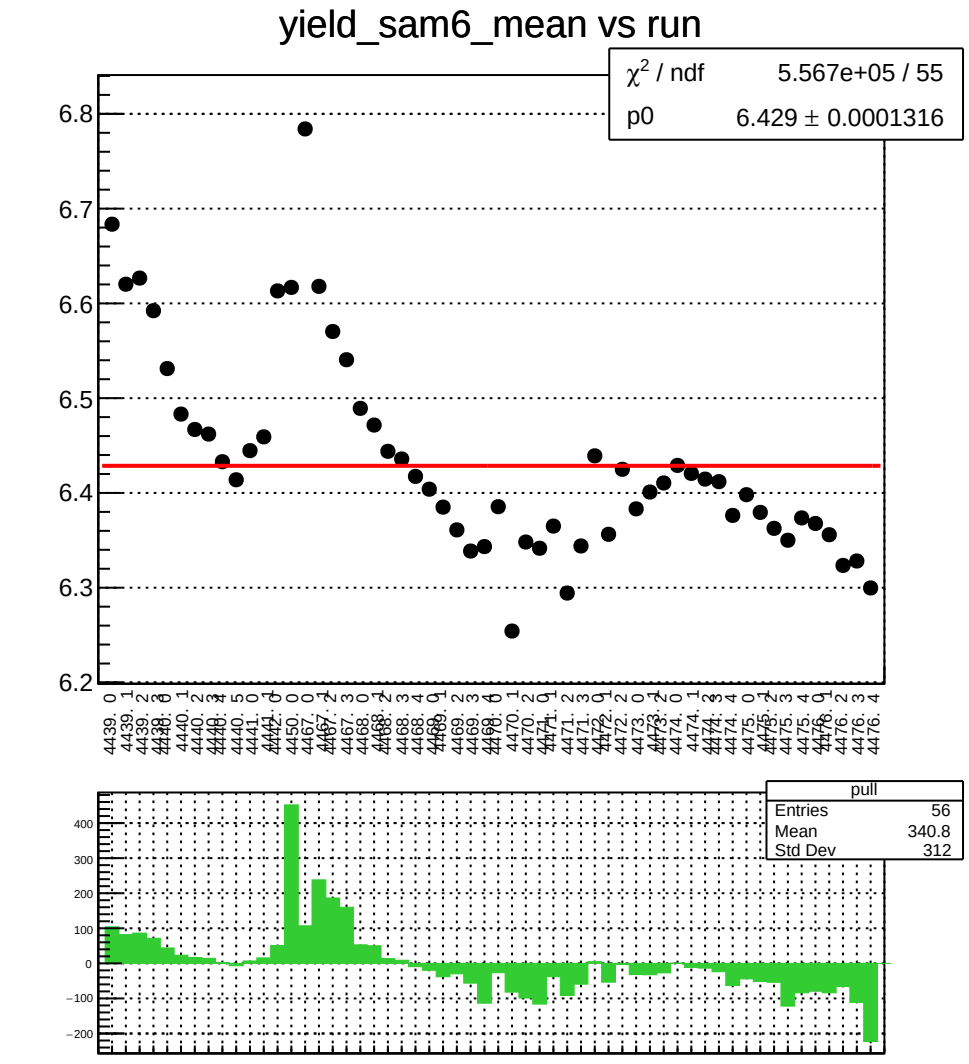

pull1D
Entries 56
Mean 0.9302
Std Dev 5.416

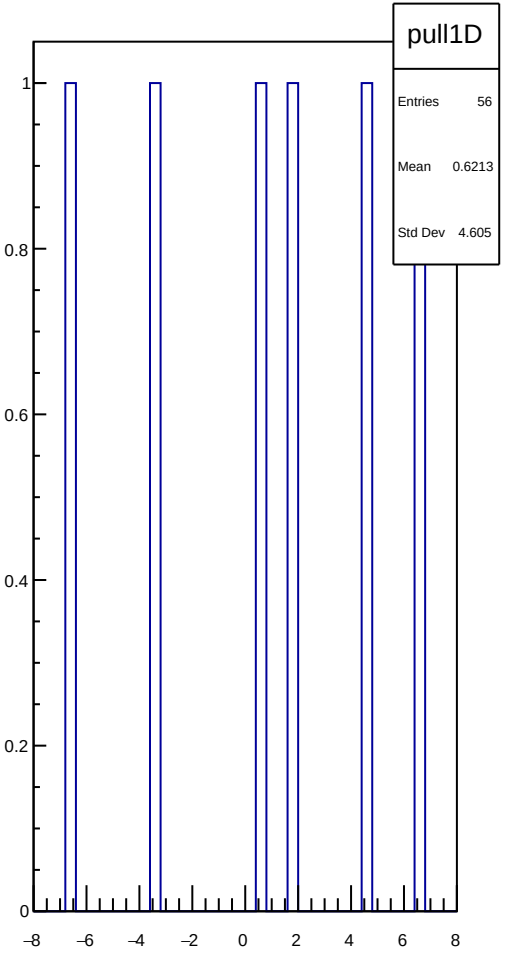

yield_sam4_rms vs run
χ² / ndf 1.243e+05 / 55
p0 0.6234 ± 0.000636
3.5
3
2.5
2
1.5
1
0.5
4439. 0
4439. 1
4439. 2
4439. 3
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

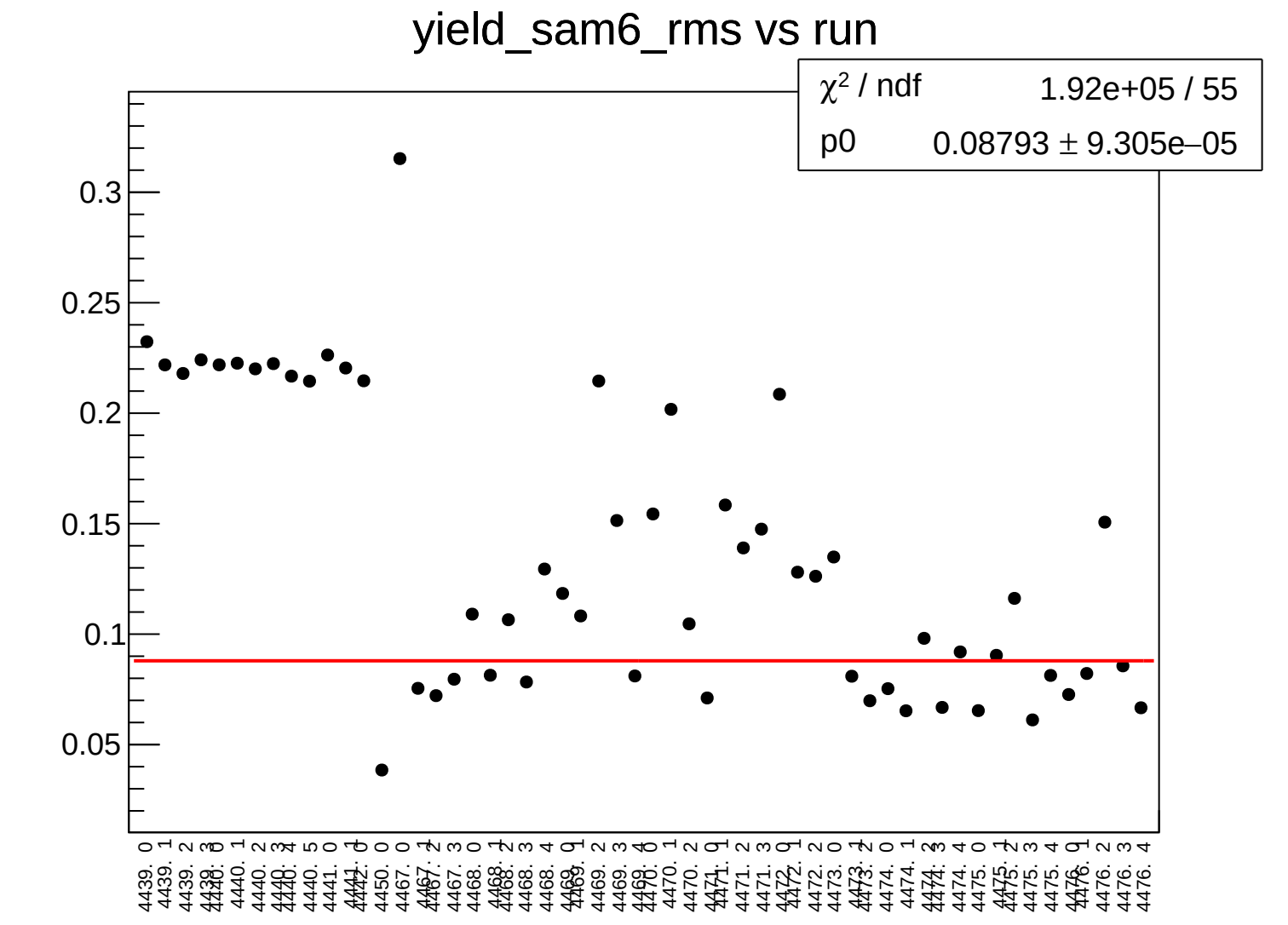

yield_sam5_mean vs run
χ² / ndf 1.046e+06 / 55
p0 4.544 ± 5.065e−05
4.7
4.65
4.6
4.55
4.5
4.45
pull
Entries 56
Mean −349.4
Std Dev 375.7
300
200
100
0
−100
−200

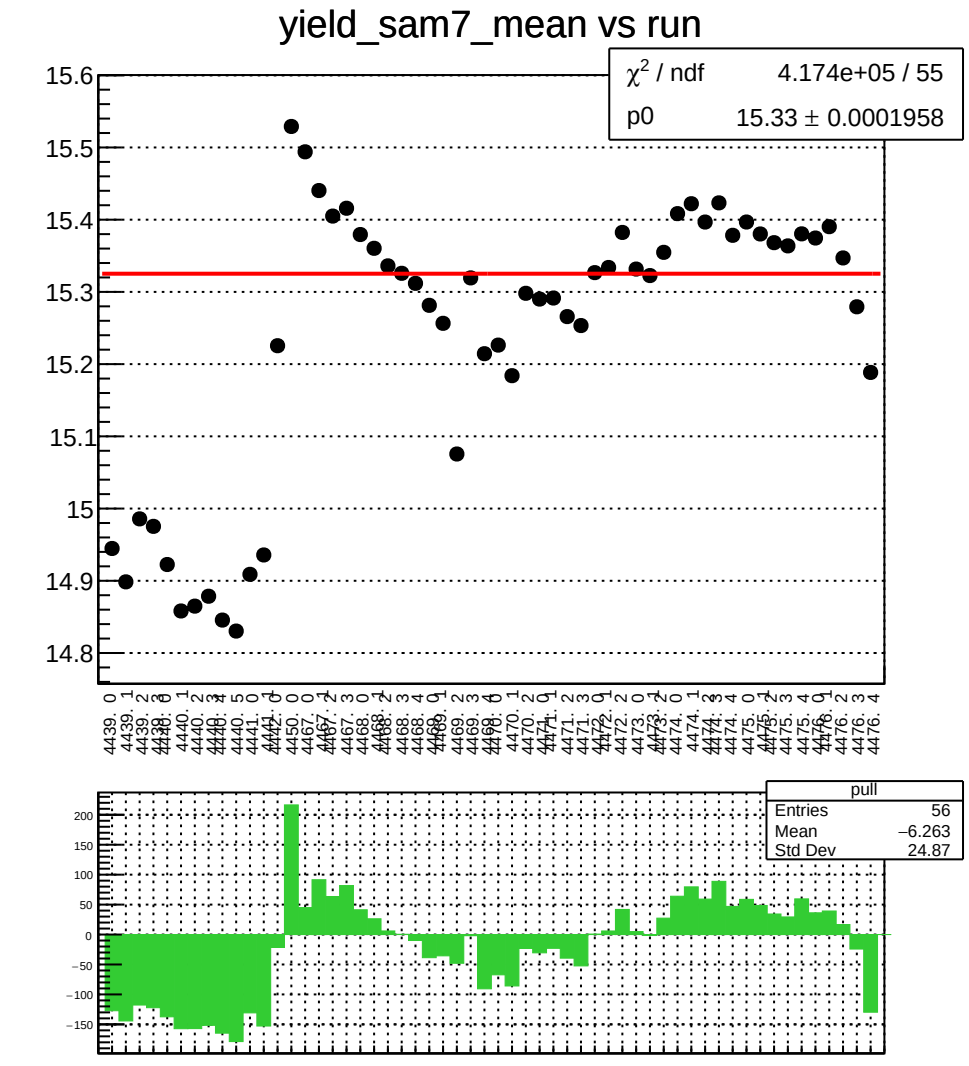

pull1D
Entries 56
Mean 2.604
Std Dev 3.128
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

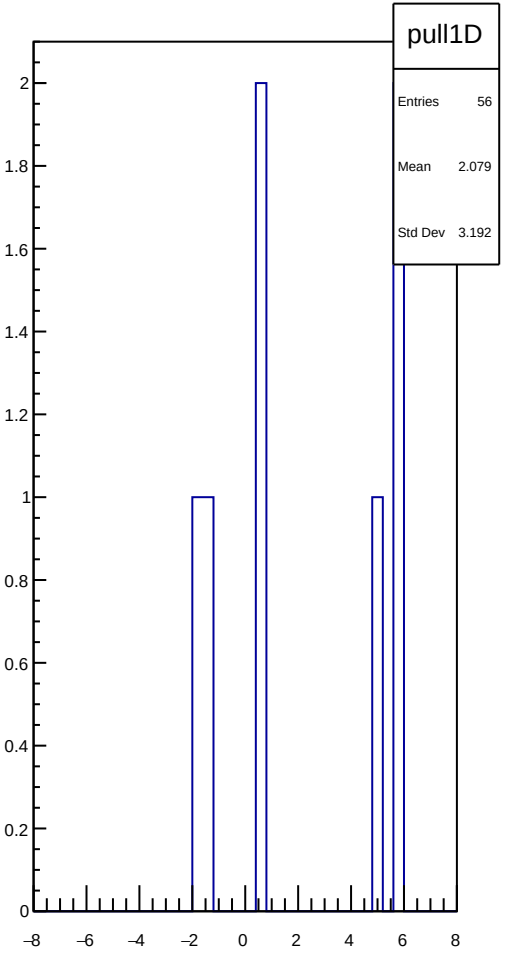

yield_sam5_rms vs run
χ² / ndf 2.592e+05 / 55
p0 0.03255 ± 3.581e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

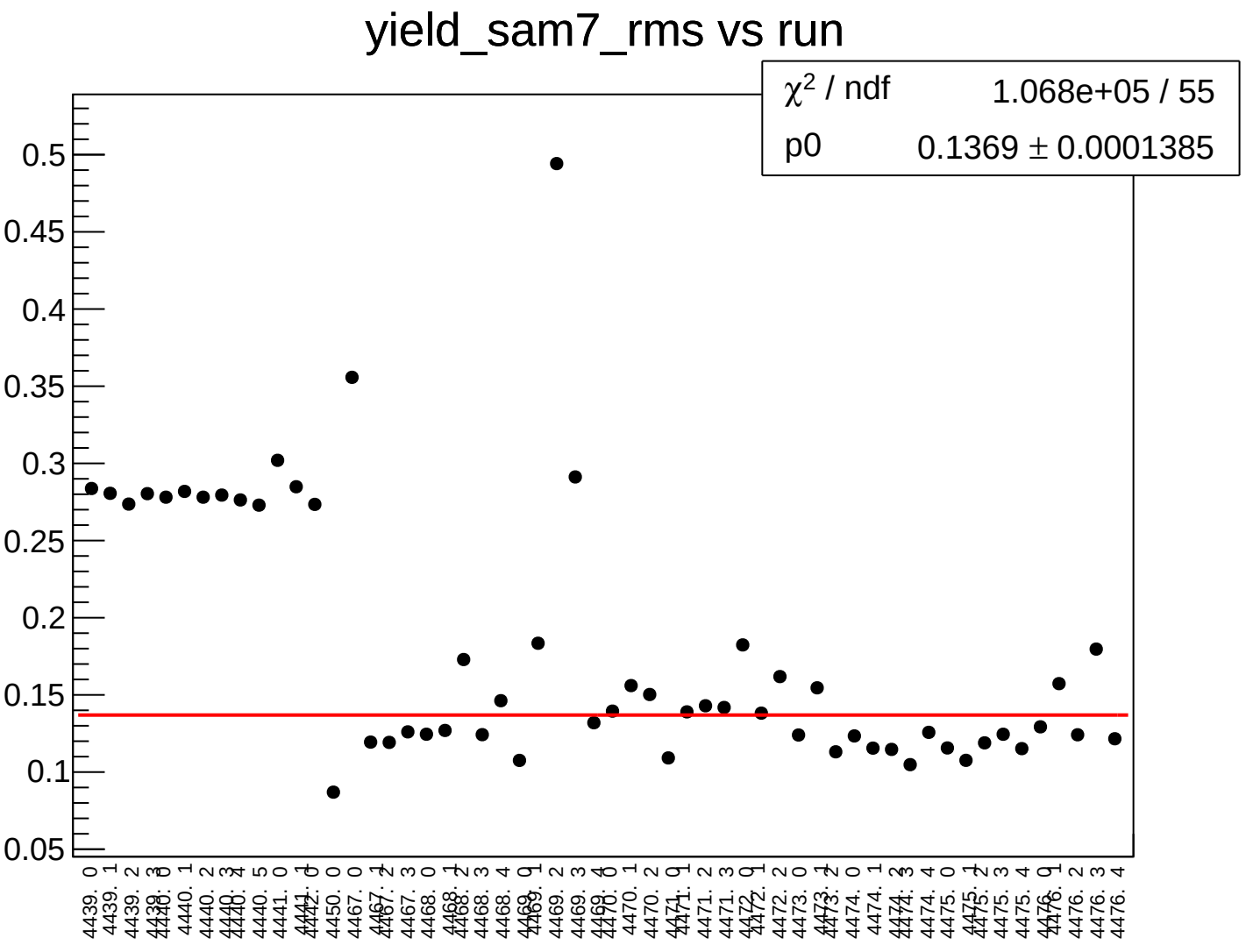

yield_sam6_mean vs run
χ² / ndf 5.567e+05 / 55
p0 6.429 ± 0.0001316
6.8
6.7
6.6
6.5
6.4
6.3
6.2
pull
Entries 56
Mean 340.8
Std Dev 312
400
300
200
100
0
−100
−200

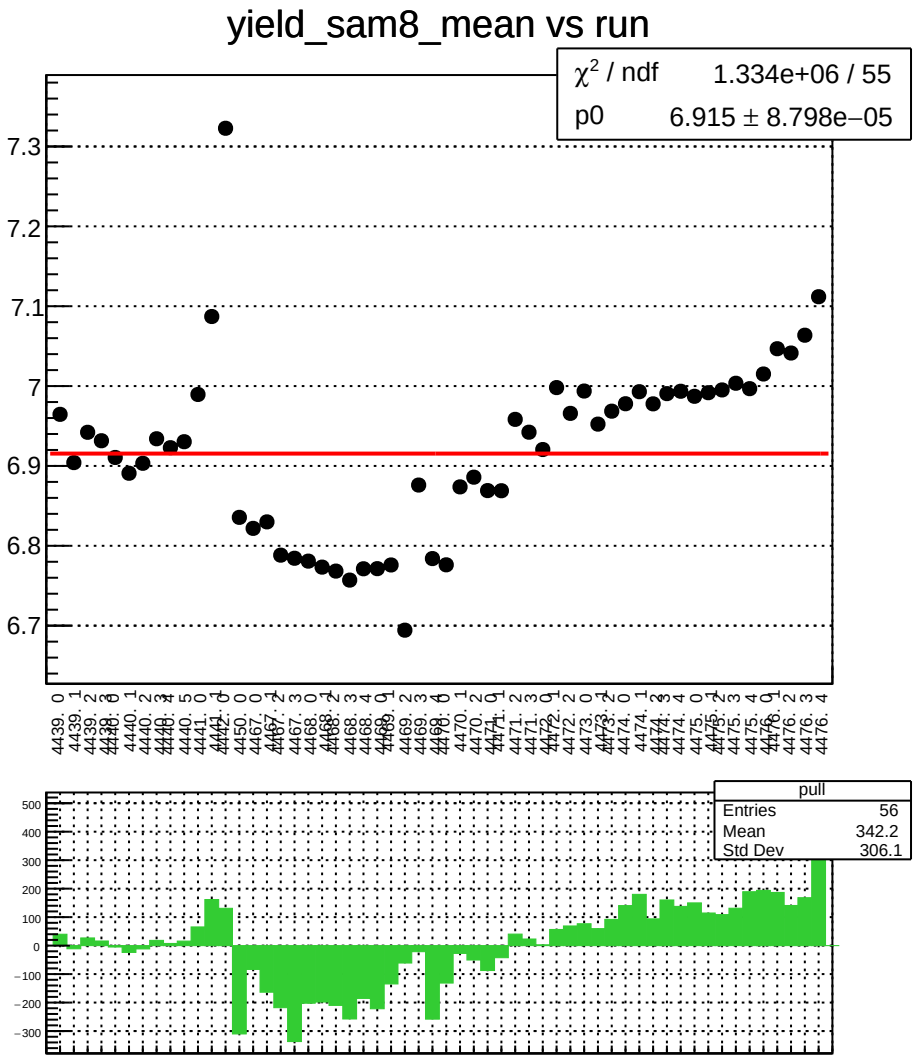

pull1D
Entries 56
Mean 0.6213
Std Dev 4.605
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

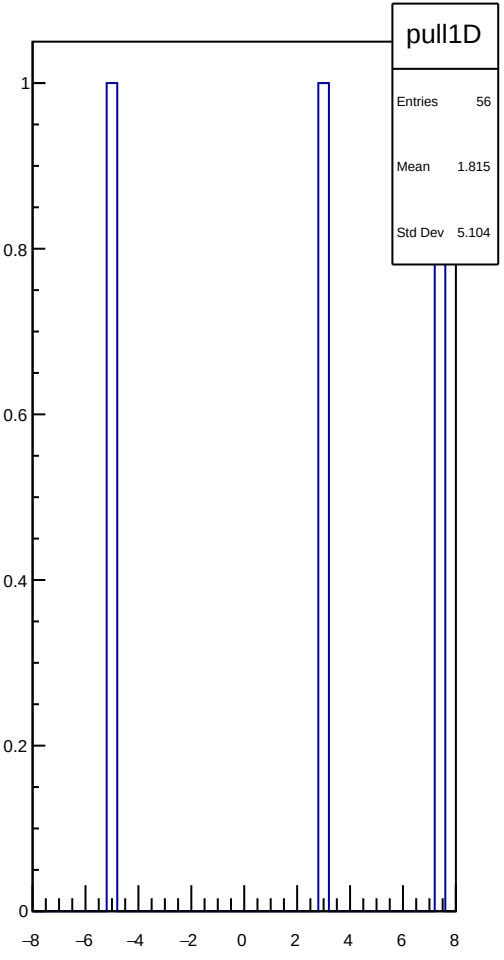

yield_sam6_rms vs run
χ² / ndf 1.92e+05 / 55
p0 0.08793 ± 9.305e−05
0.3
0.25
0.2
0.15
0.1
0.05

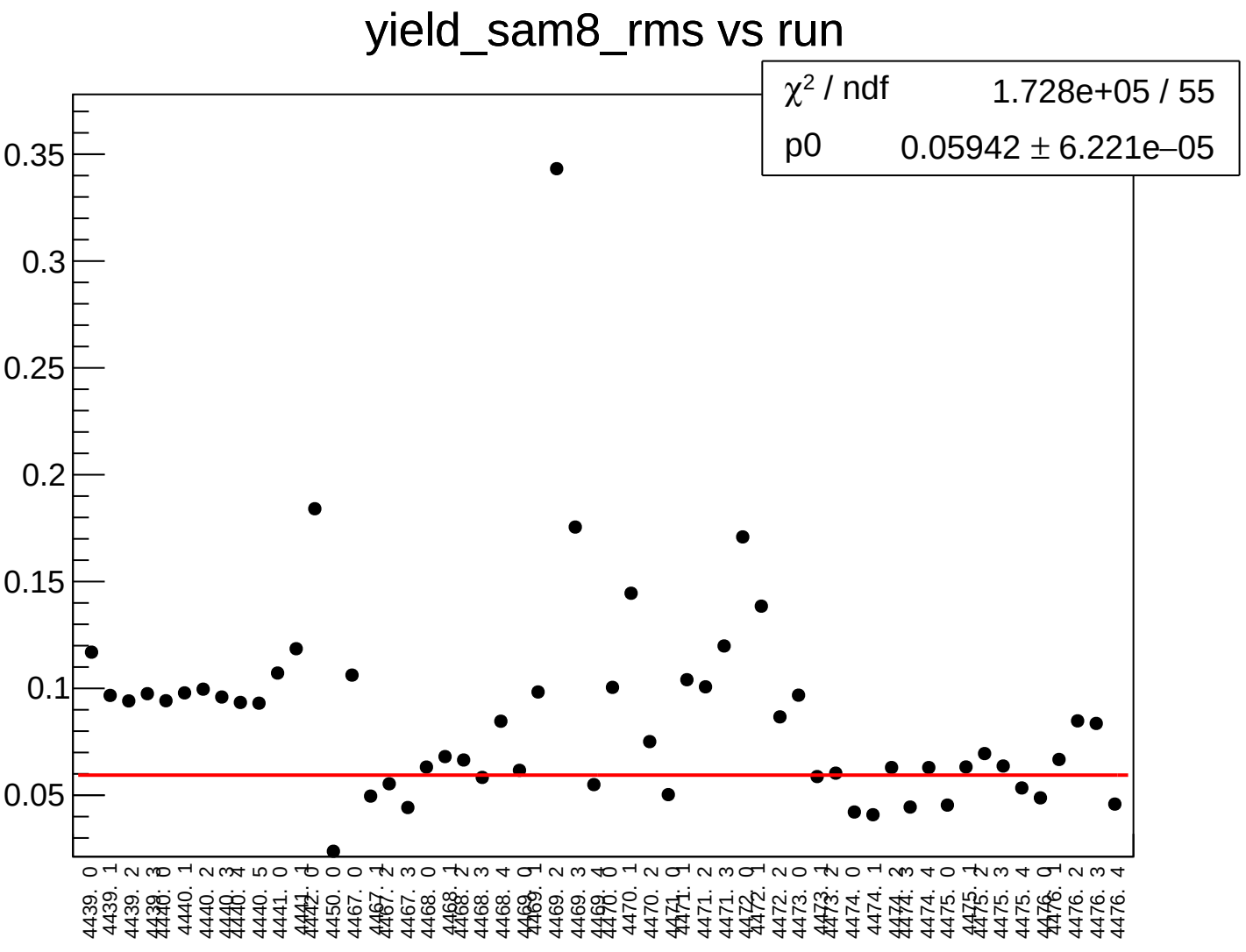

yield_sam7_mean vs run
χ² / ndf 4.174e+05 / 55
p0 15.33 ± 0.0001958
pull
Entries 56
Mean −6.263
Std Dev 24.87

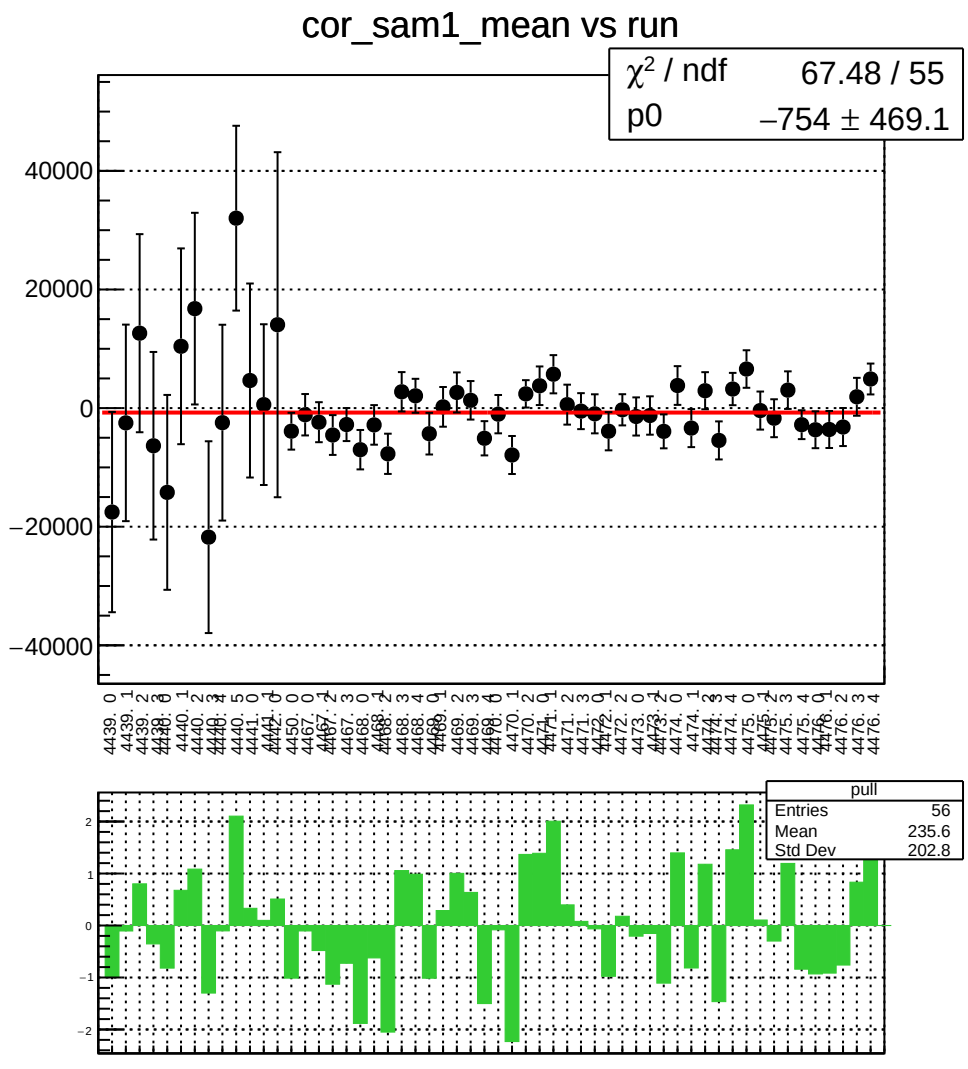

pull1D
Entries 56
Mean 2.079
Std Dev 3.192

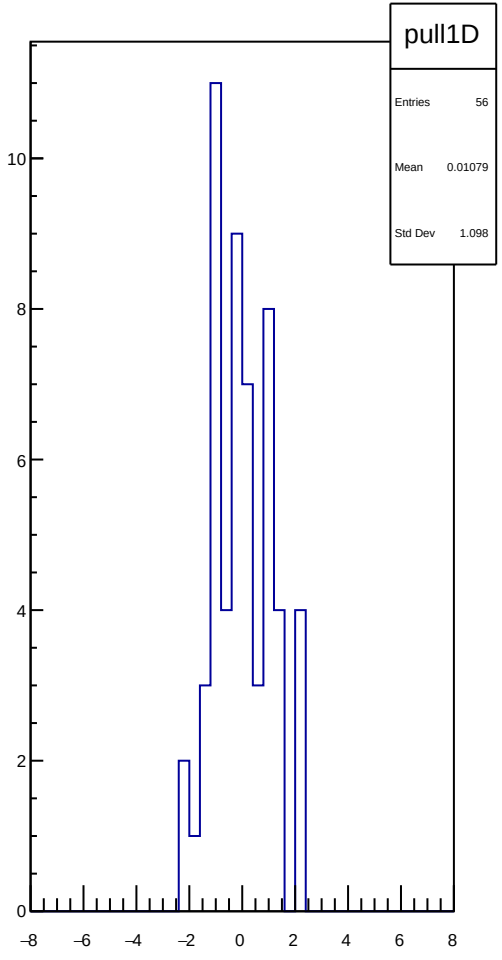

yield_sam7_rms vs run
χ² / ndf 1.068e+05 / 55
p0 0.1369 ± 0.0001385
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

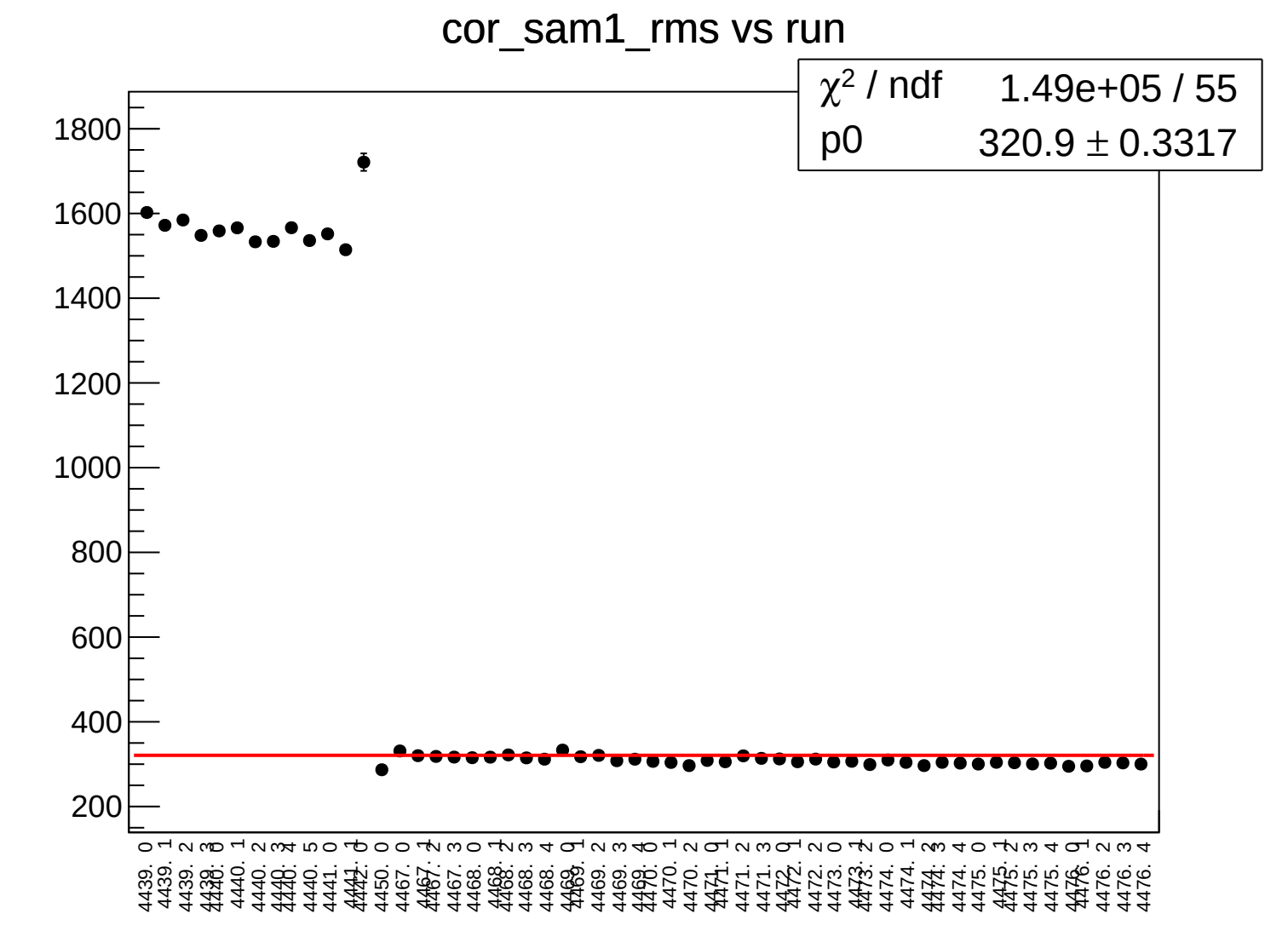

yield_sam8_mean vs run
χ² / ndf 1.334e+06 / 55
p0 6.915 ± 8.798e−05
7.3
7.2
7.1
7
6.9
6.8
6.7
pull
Entries 56
Mean 342.2
Std Dev 306.1
500
400
300
200
100
0
−100
−200
−300

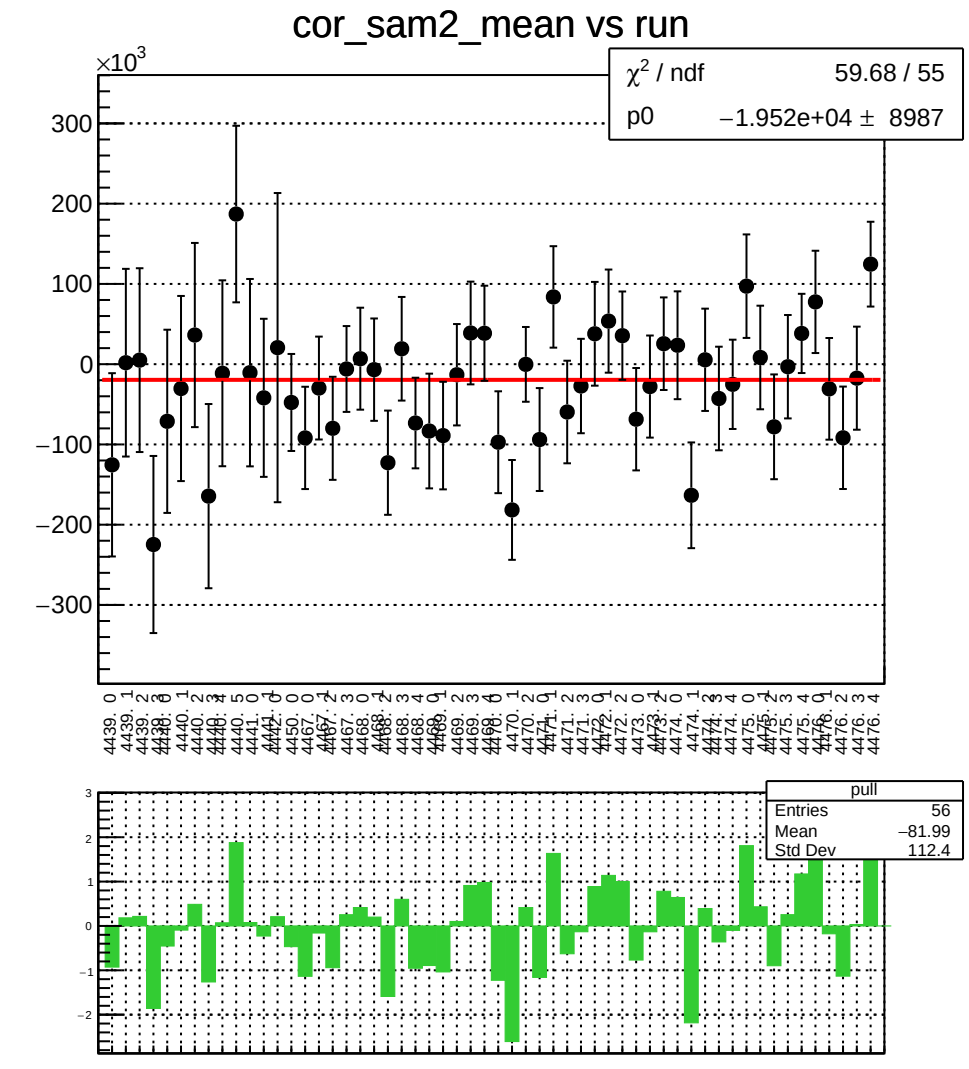

pull1D
Entries 56
Mean 1.815
Std Dev 5.104
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

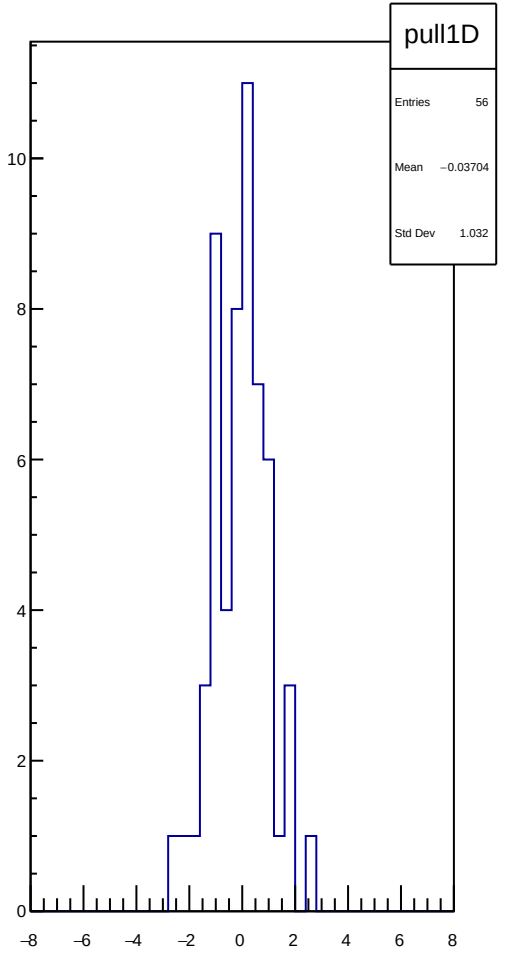

yield_sam8_rms vs run
χ² / ndf 1.728e+05 / 55
p0 0.05942 ± 6.221e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

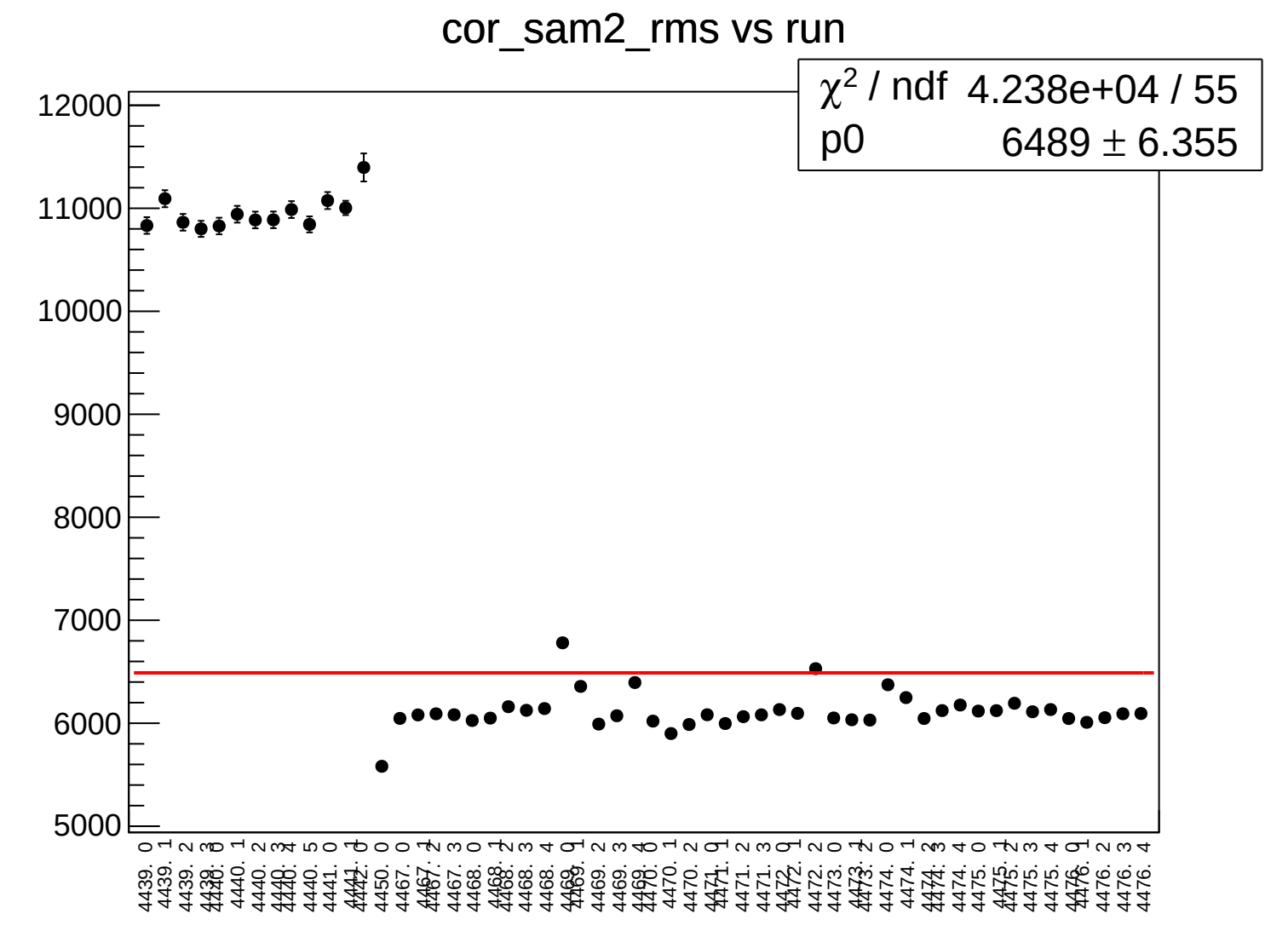

cor_sam1_mean vs run
χ² / ndf 67.48 / 55
p0 −754 ± 469.1
40000
20000
0
−20000
−40000
pull
Entries 56
Mean 235.6
Std Dev 202.8
2
1
0
−1
−2

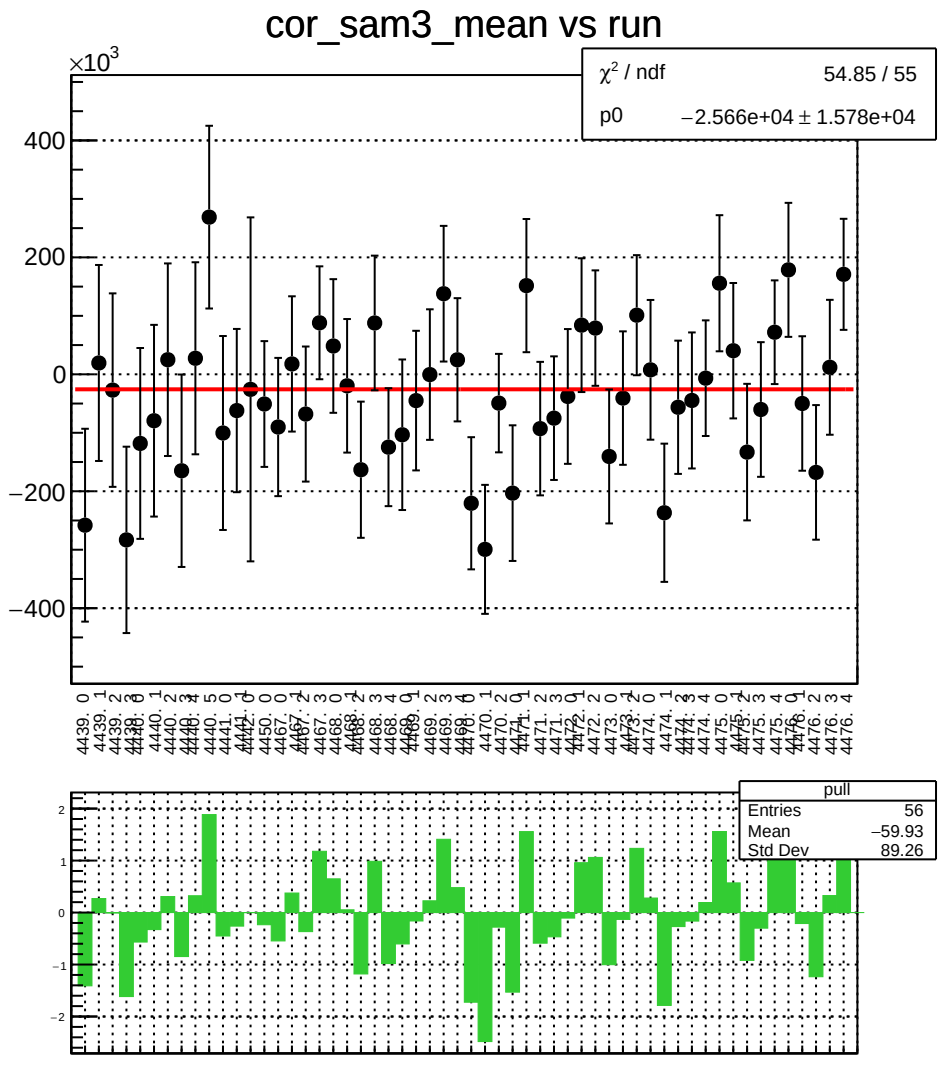

pull1D
Entries 56
Mean 0.01079
Std Dev 1.098
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

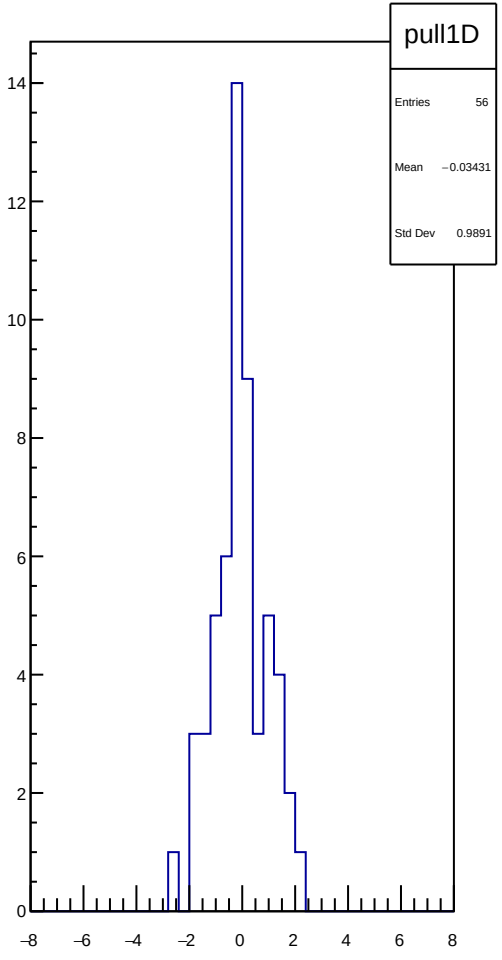

cor_sam1_rms vs run
χ² / ndf 1.49e+05 / 55
p0 320.9 ± 0.3317
1800
1600
1400
1200
1000
800
600
400
200
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

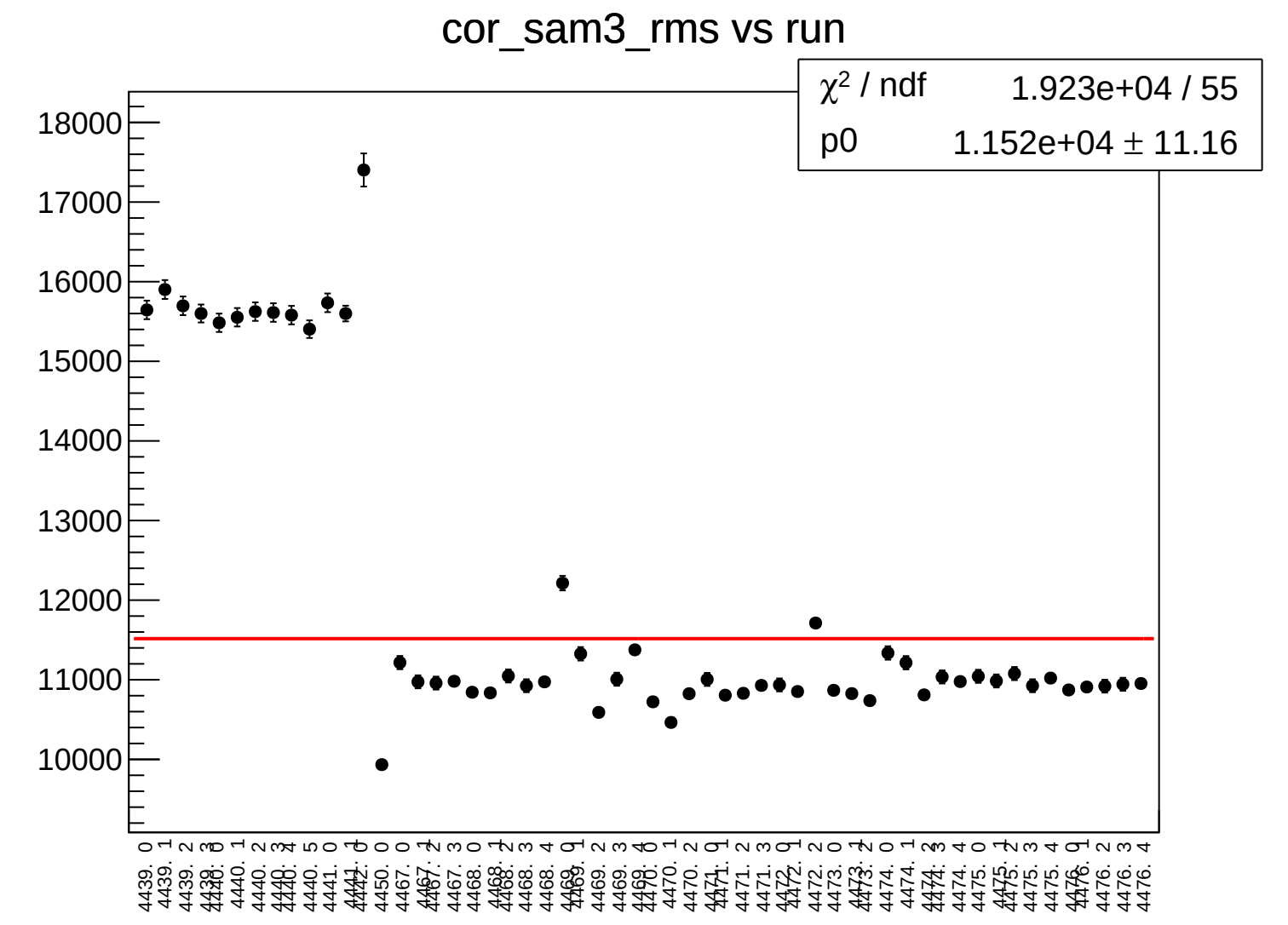

cor_sam2_mean vs run
×10^3
χ² / ndf 59.68 / 55
p0 −1.952e+04 ± 8987
pull
Entries 56
Mean −81.99
Std Dev 112.4

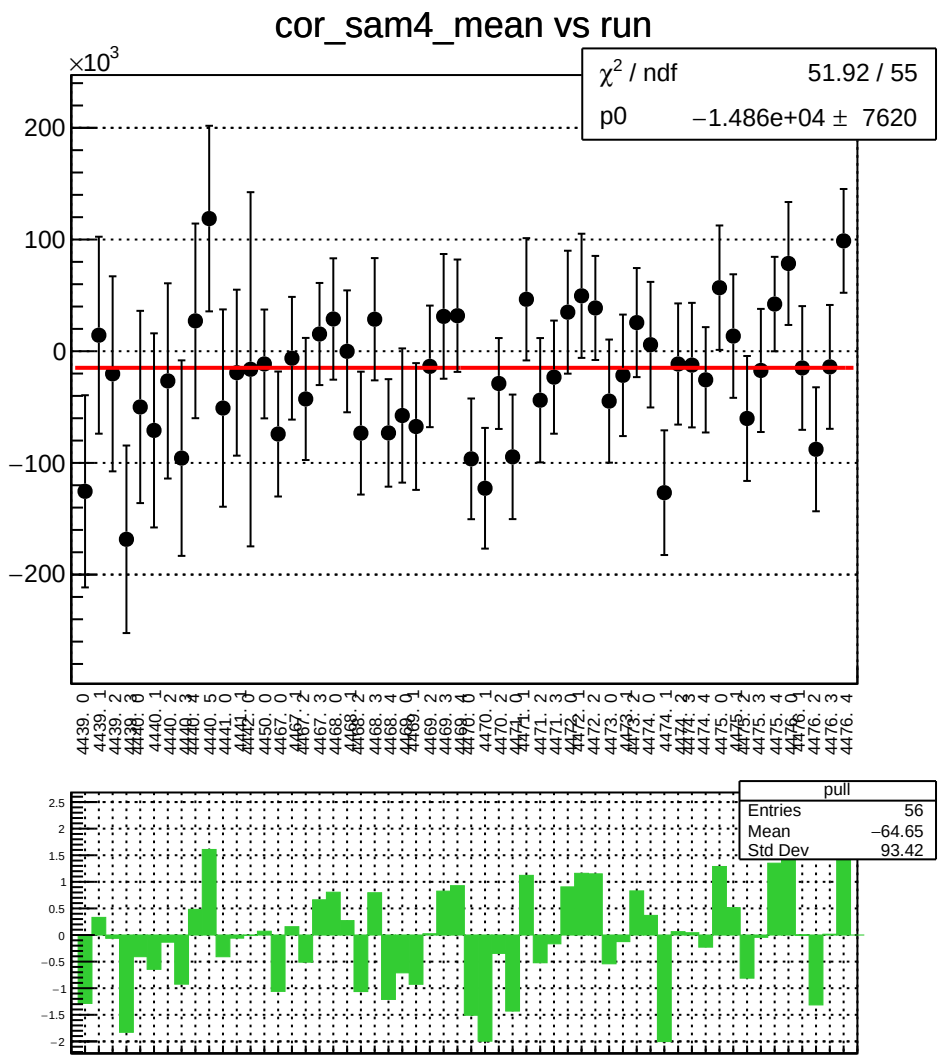

pull1D
Entries 56
Mean −0.03704
Std Dev 1.032

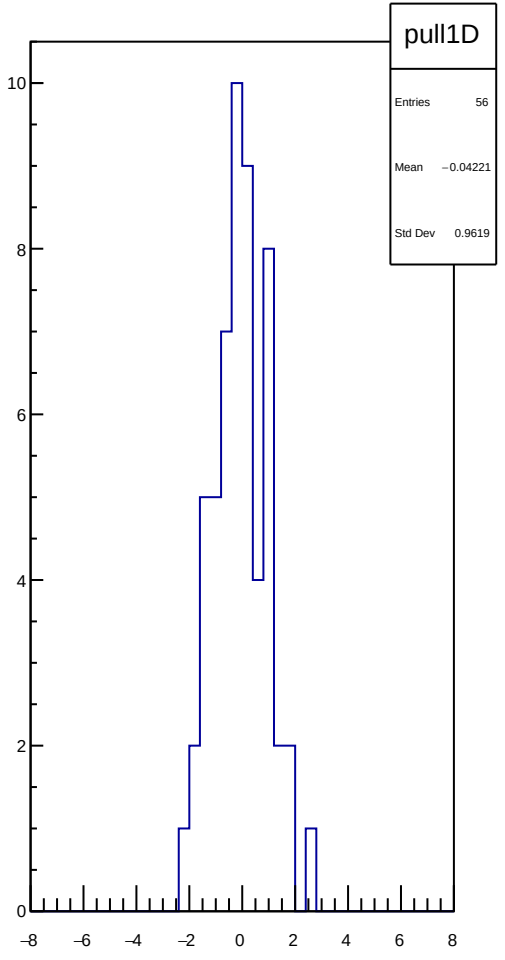

cor_sam2_rms vs run
χ² / ndf 4.238e+04 / 55
p0 6489 ± 6.355
12000
11000
10000
9000
8000
7000
6000
5000
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

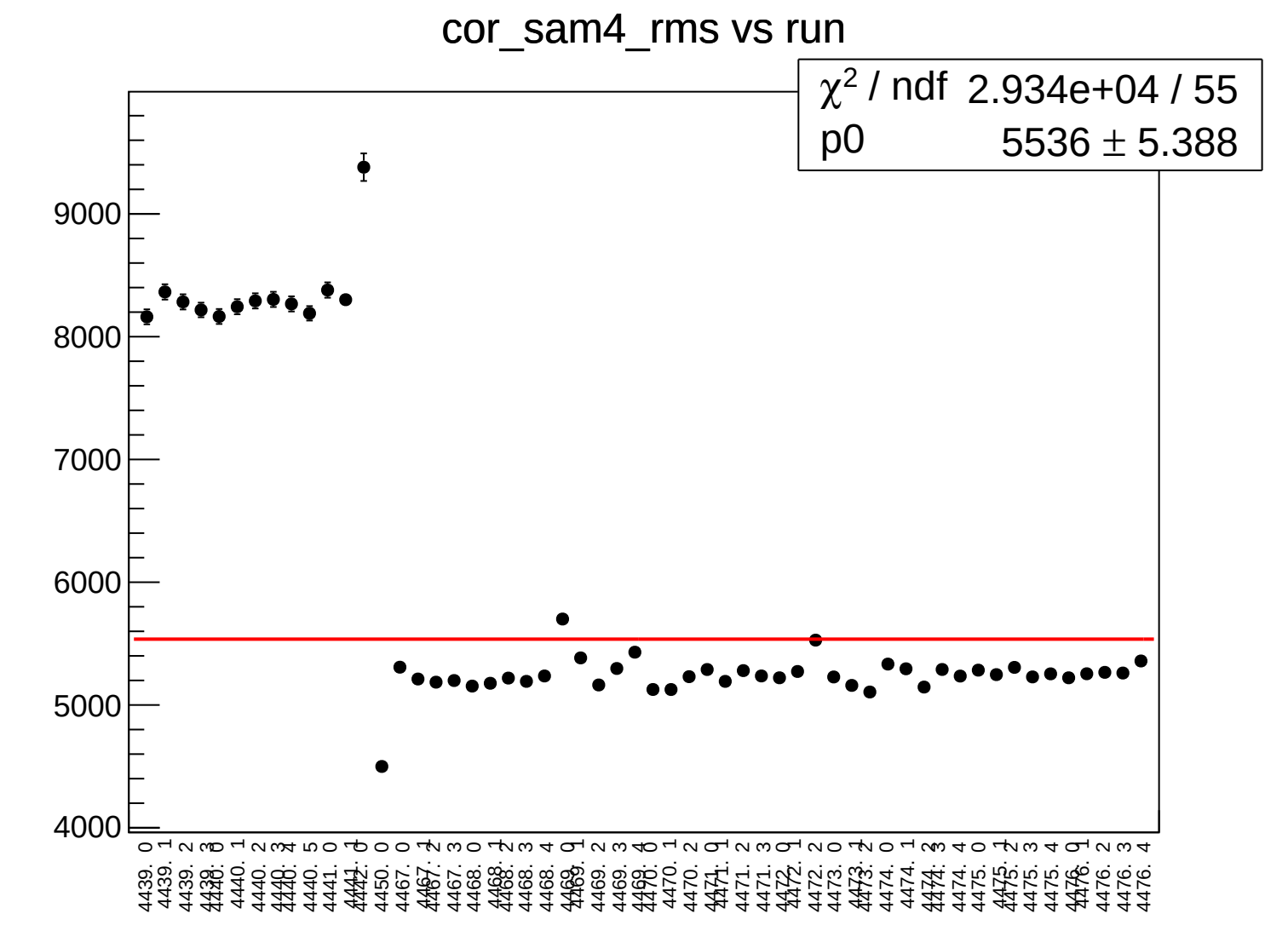

cor_sam3_mean vs run
×10^3
χ² / ndf 54.85 / 55
p0 −2.566e+04 ± 1.578e+04
400
200
0
−200
−400
pull
Entries 56
Mean −59.93
Std Dev 89.26
2
1
0
−1
−2

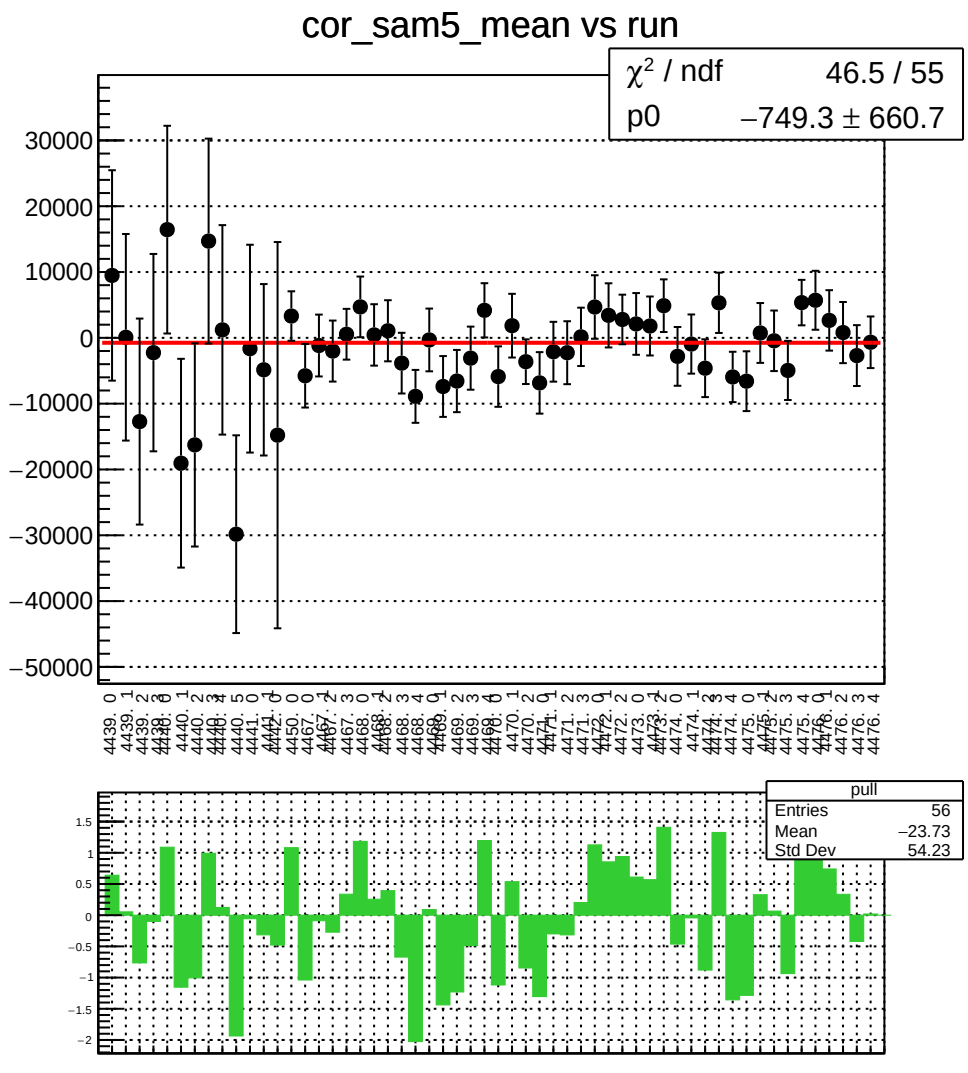

pull1D
Entries 56
Mean −0.03431
Std Dev 0.9891
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

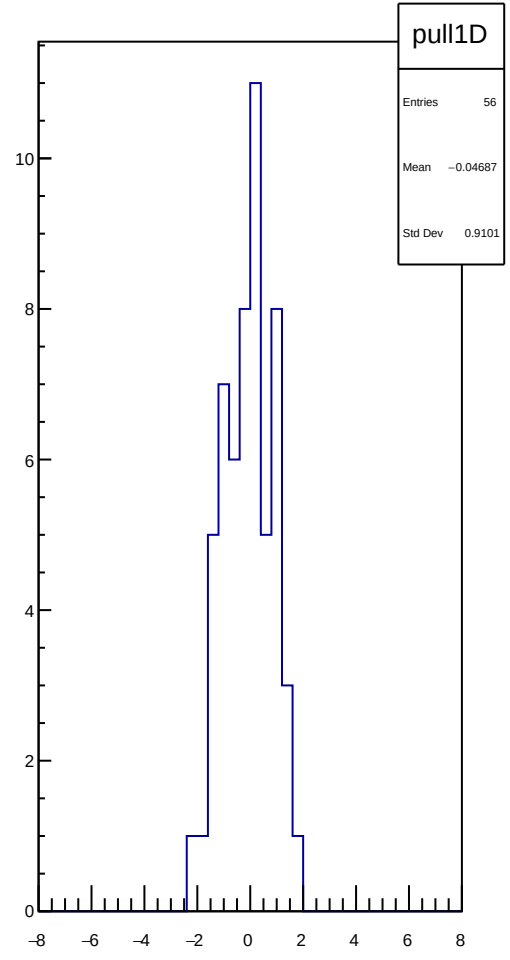

cor_sam3_rms vs run
χ² / ndf 1.923e+04 / 55
p0 1.152e+04 ± 11.16
18000
17000
16000
15000
14000
13000
12000
11000
10000

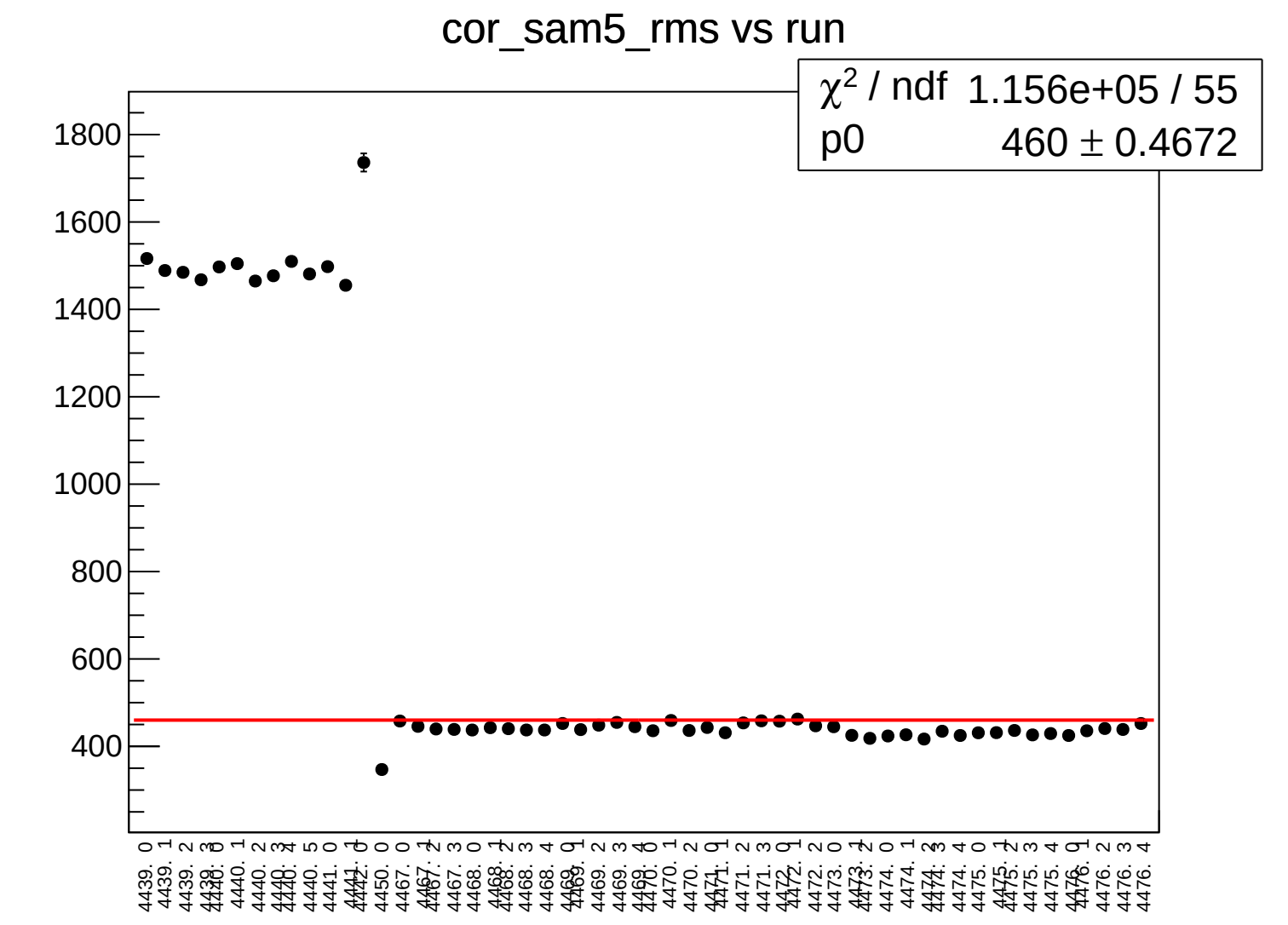

cor_sam4_mean vs run
×10^3
χ² / ndf 51.92 / 55
p0 −1.486e+04 ± 7620
pull
Entries 56
Mean −64.65
Std Dev 93.42

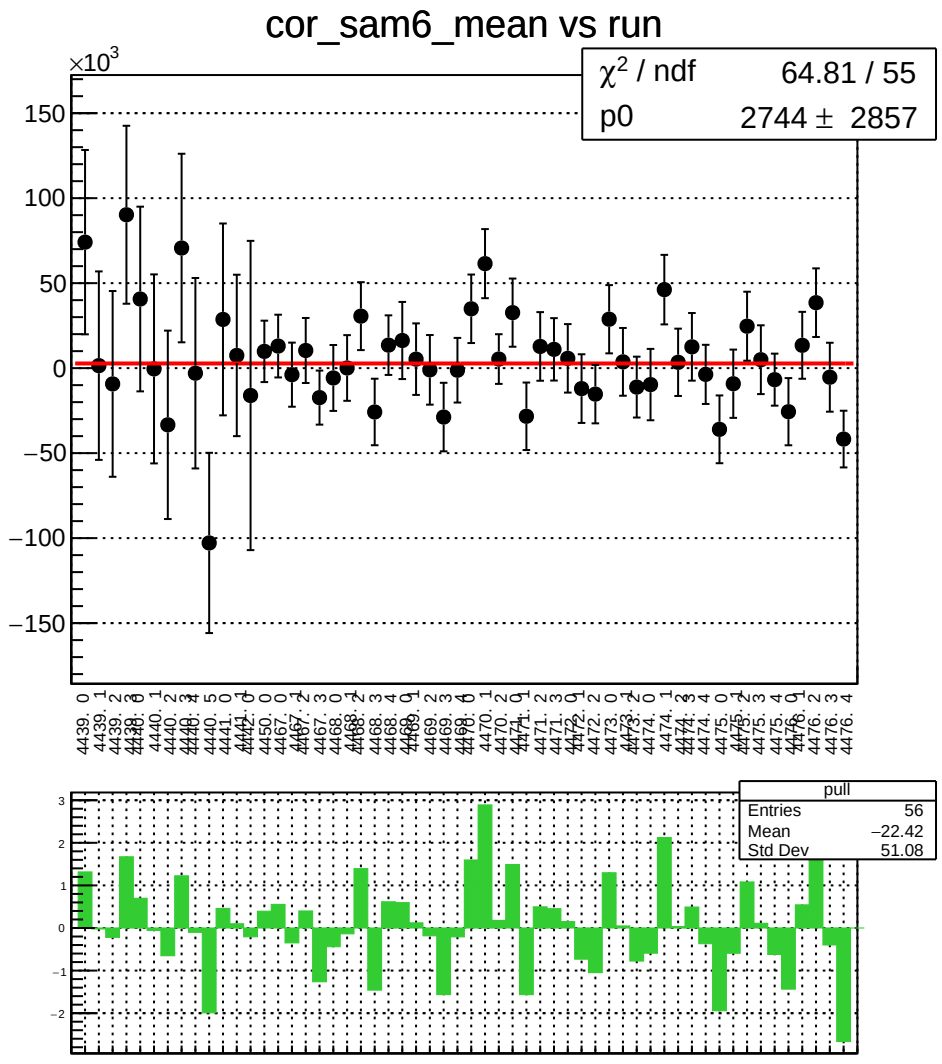

pull1D
Entries 56
Mean −0.04221
Std Dev 0.9619

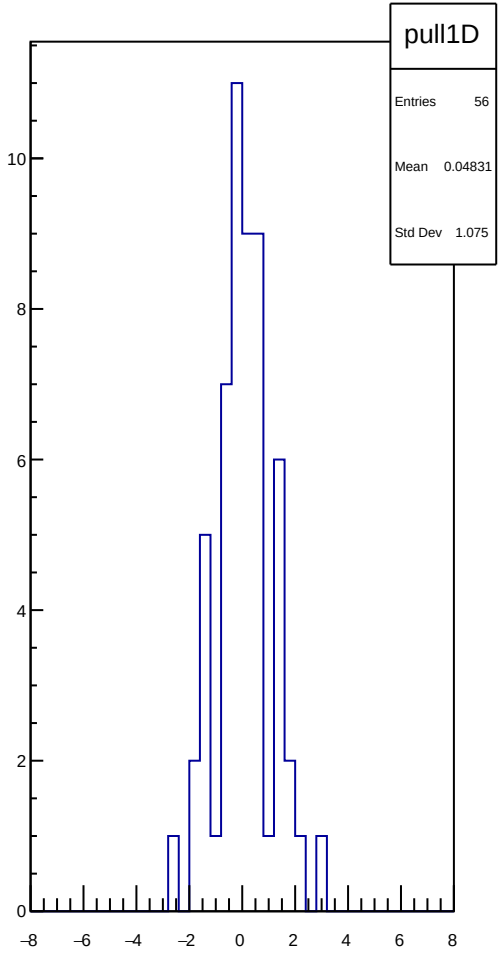

cor_sam4_rms vs run
χ² / ndf 2.934e+04 / 55
p0 5536 ± 5.388
9000
8000
7000
6000
5000
4000

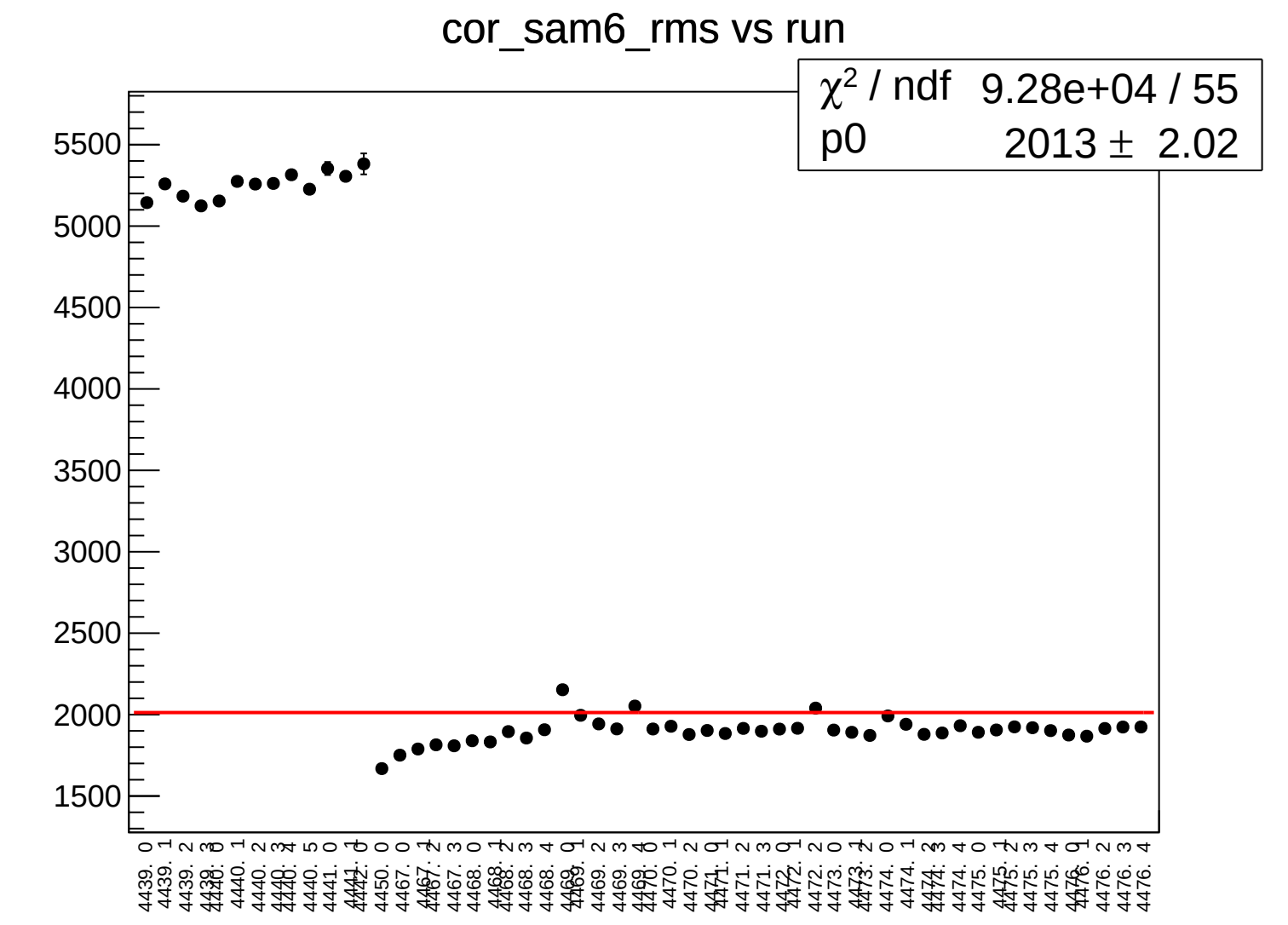

cor_sam5_mean vs run
χ² / ndf 46.5 / 55
p0 −749.3 ± 660.7
pull
Entries 56
Mean −23.73
Std Dev 54.23

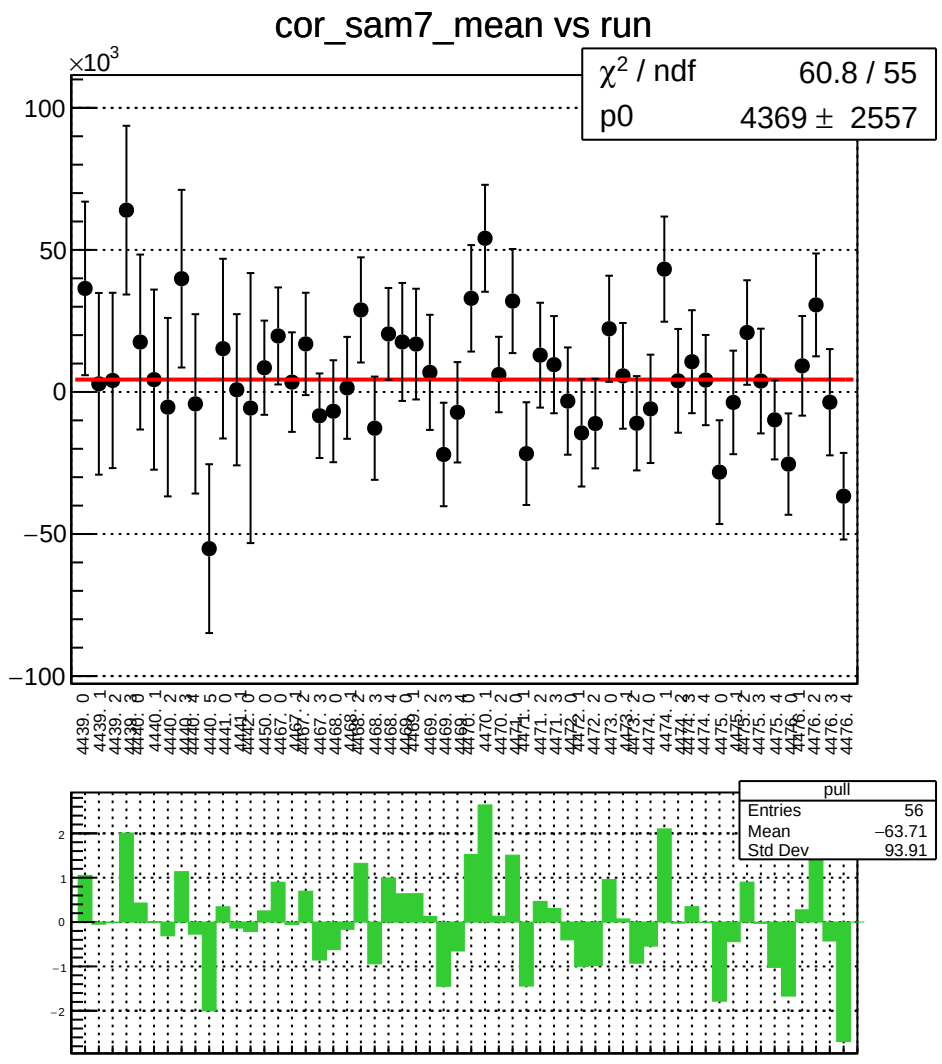

pull1D
Entries 56
Mean −0.04687
Std Dev 0.9101

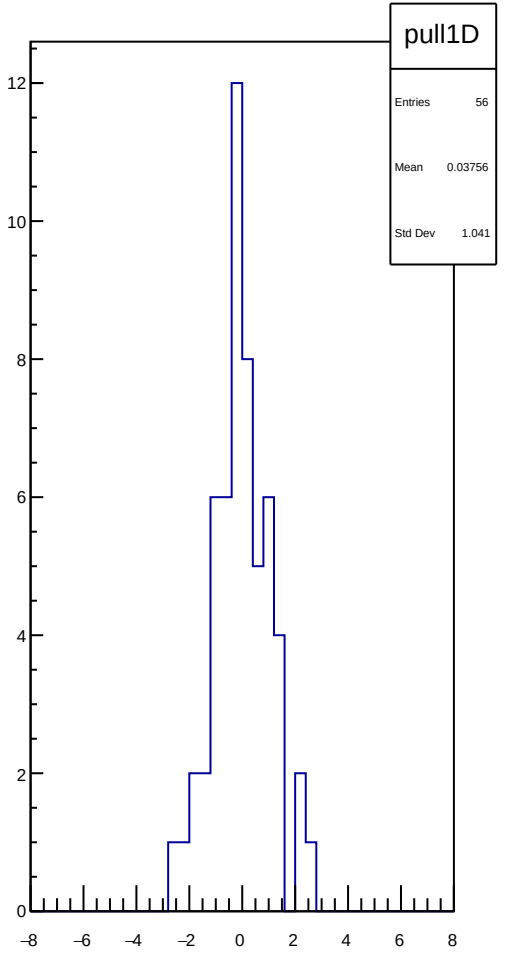

cor_sam5_rms vs run
χ² / ndf 1.156e+05 / 55
p0 460 ± 0.4672
1800
1600
1400
1200
1000
800
600
400
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4441. 2
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

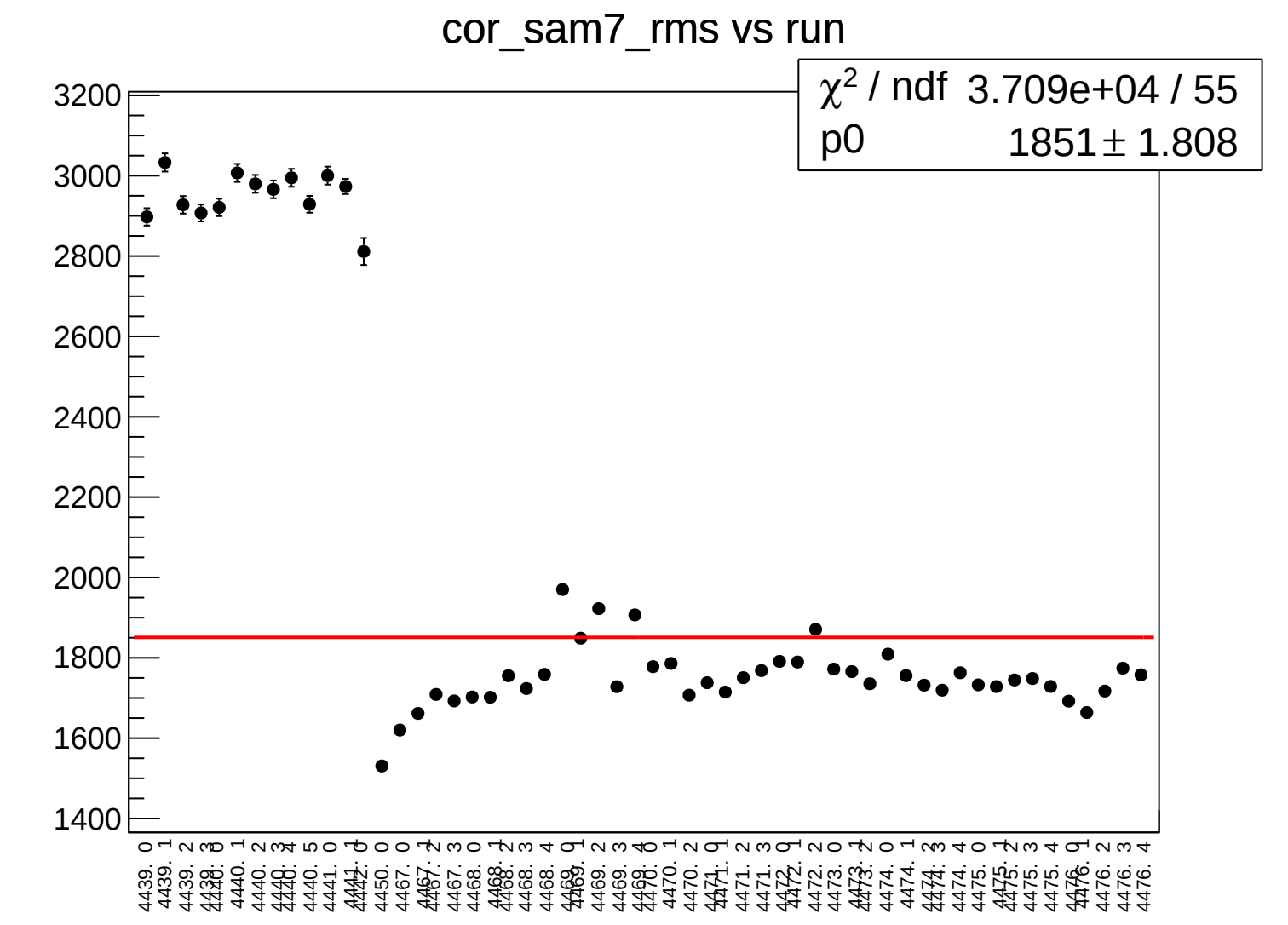

cor_sam6_mean vs run
×10^3
χ^2 / ndf 64.81 / 55
p0 2744 ± 2857
150
100
50
0
−50
−100
−150
pull
Entries 56
Mean −22.42
Std Dev 51.08
3
2
1
0
−1
−2

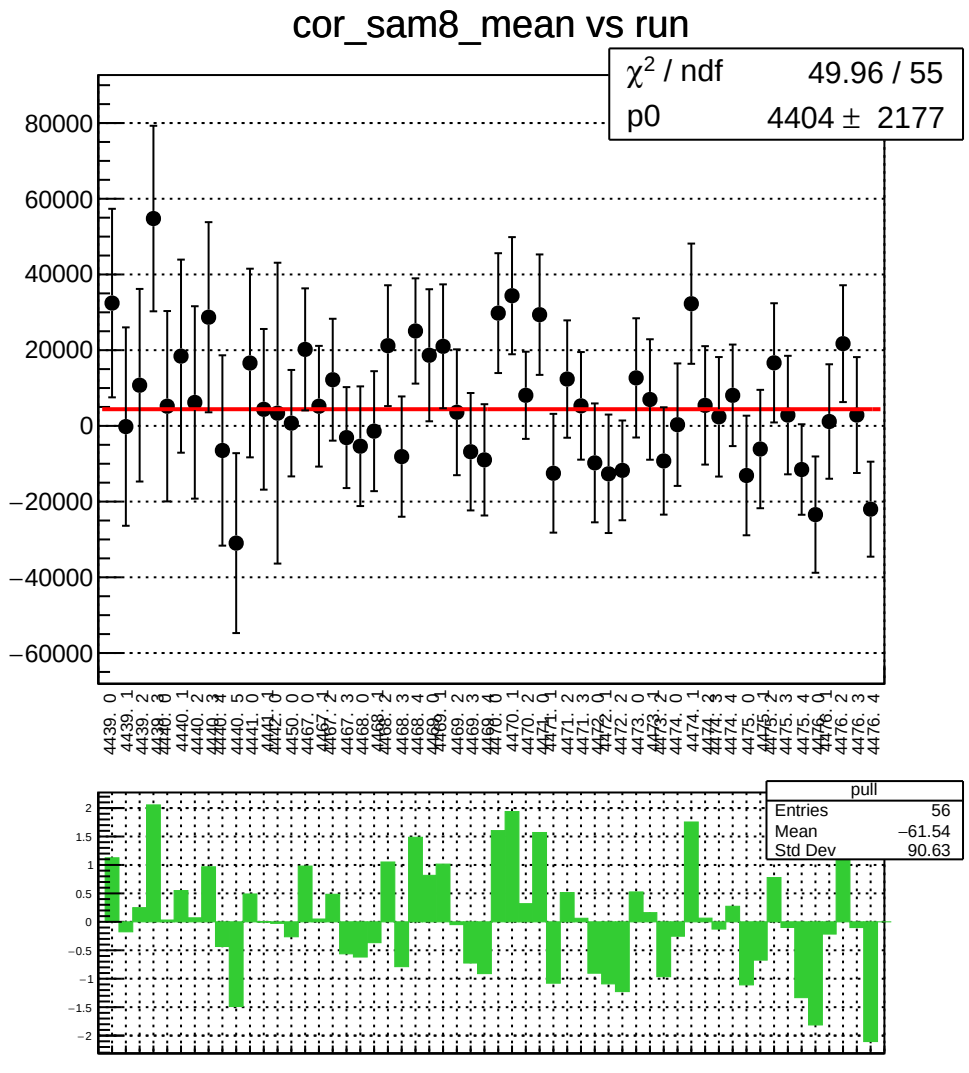

pull1D
Entries 56
Mean 0.04831
Std Dev 1.075
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

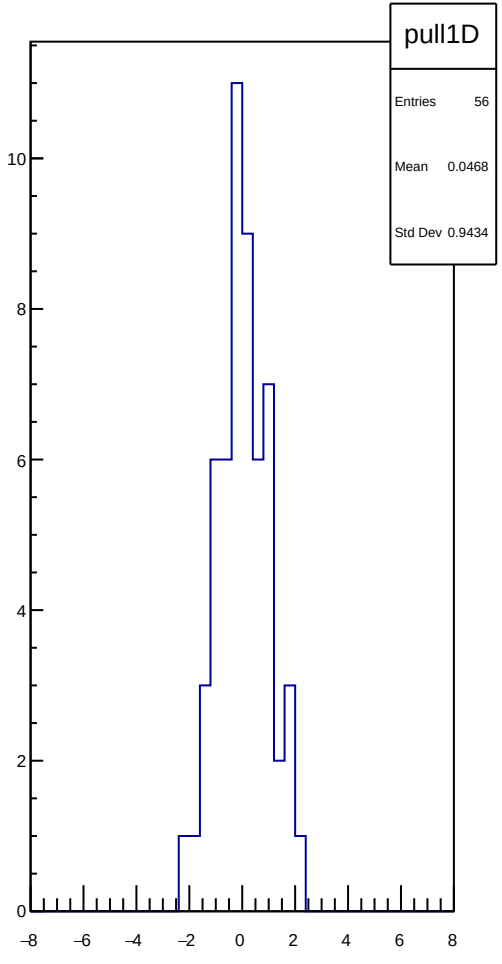

cor_sam6_rms vs run
χ² / ndf 9.28e+04 / 55
p0 2013 ± 2.02
5500
5000
4500
4000
3500
3000
2500
2000
1500
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

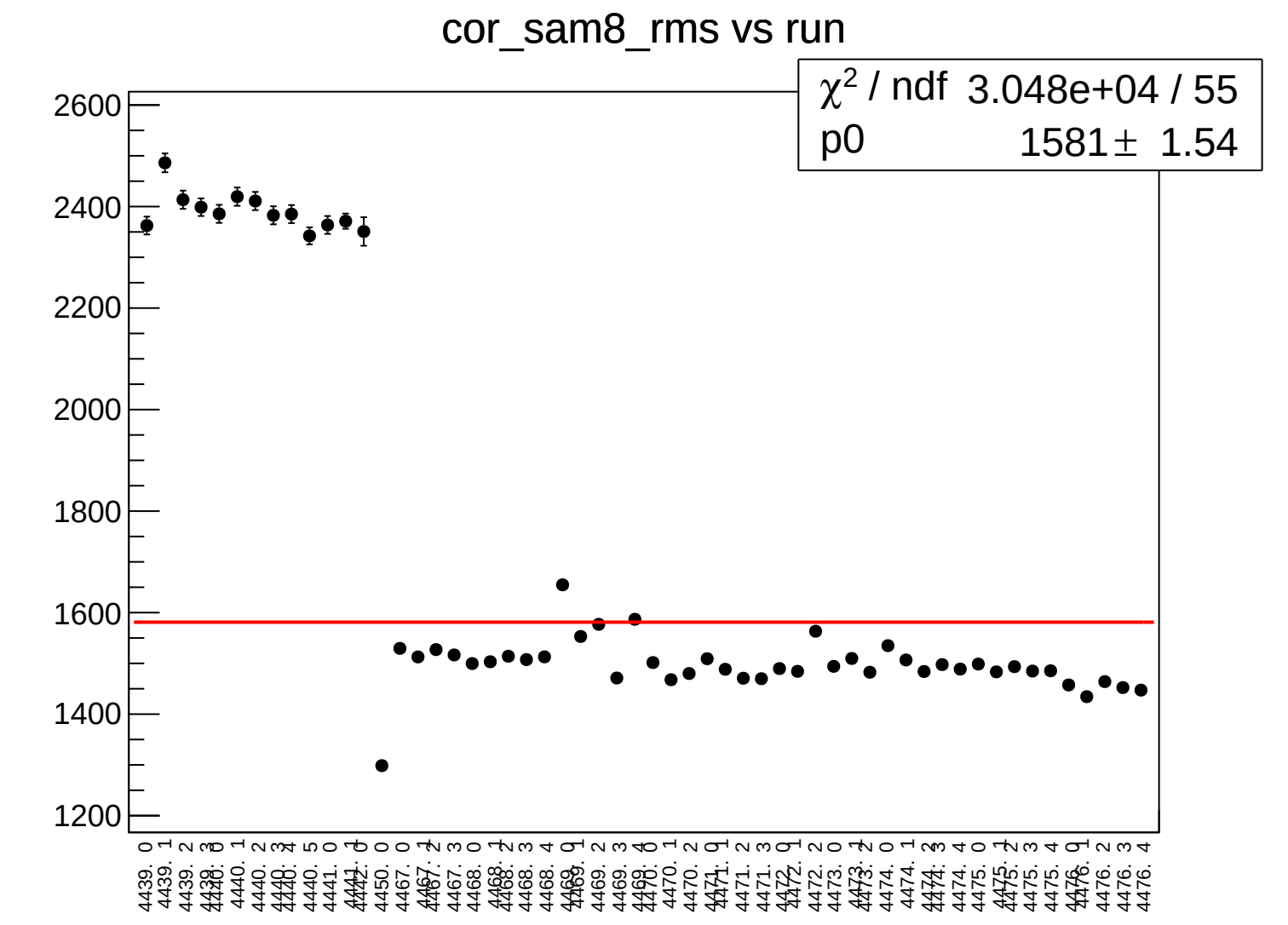

cor_sam7_mean vs run
×10^3
χ^2 / ndf 60.8 / 55
p0 4369 ± 2557
100
50
0
−50
−100
pull
Entries 56
Mean −63.71
Std Dev 93.91
2
1
0
−1
−2

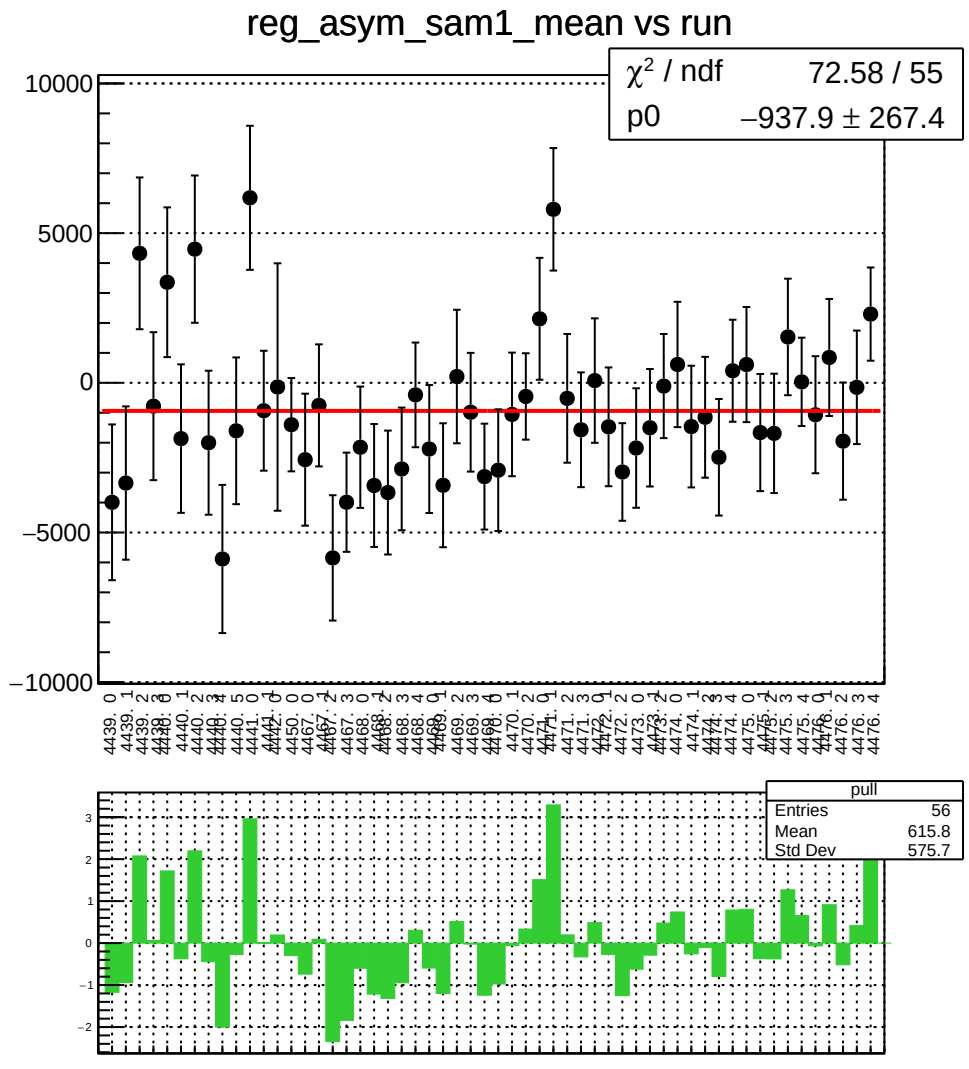

pull1D
Entries 56
Mean 0.03756
Std Dev 1.041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

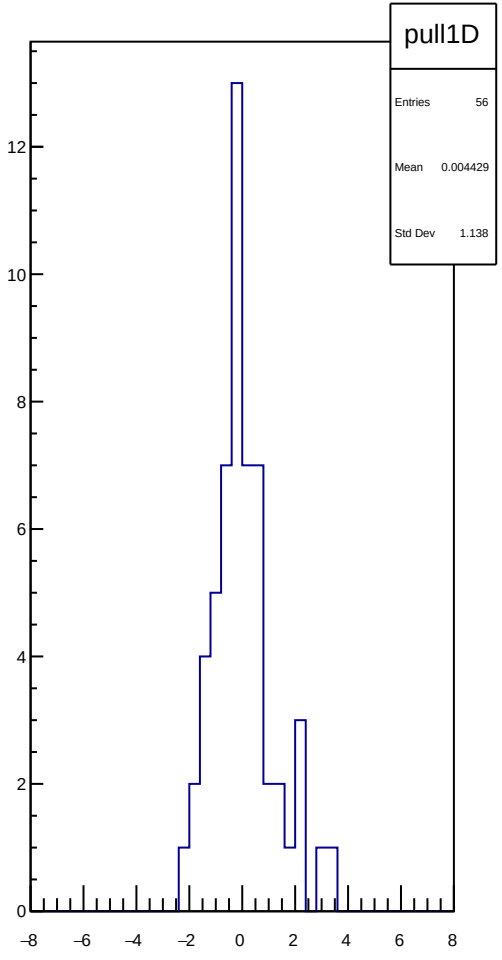

cor_sam7_rms vs run
χ² / ndf 3.709e+04 / 55
p0 1851 ± 1.808
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

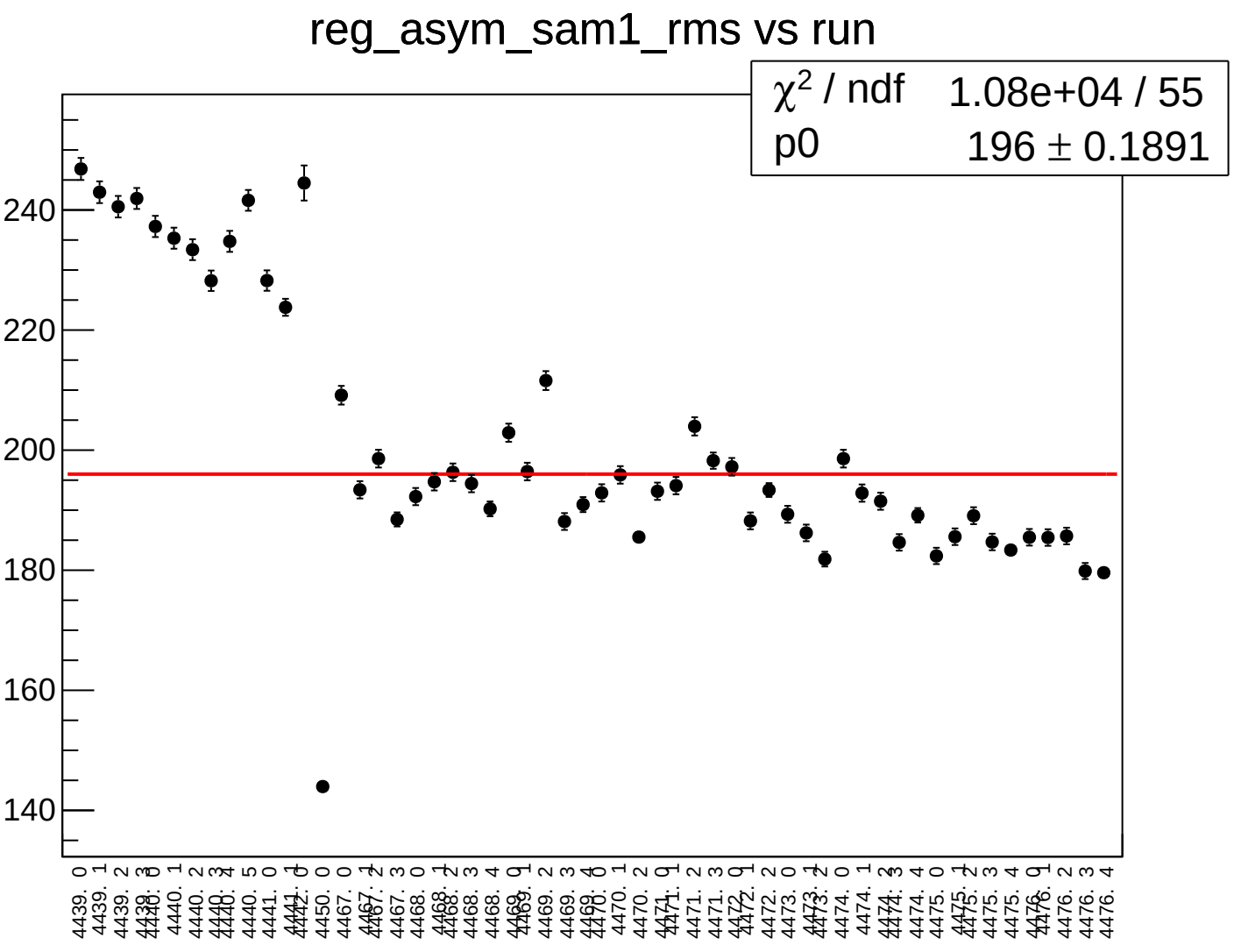

cor_sam8_mean vs run
χ² / ndf 49.96 / 55
p0 4404 ± 2177
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 56
Mean −61.54
Std Dev 90.63
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

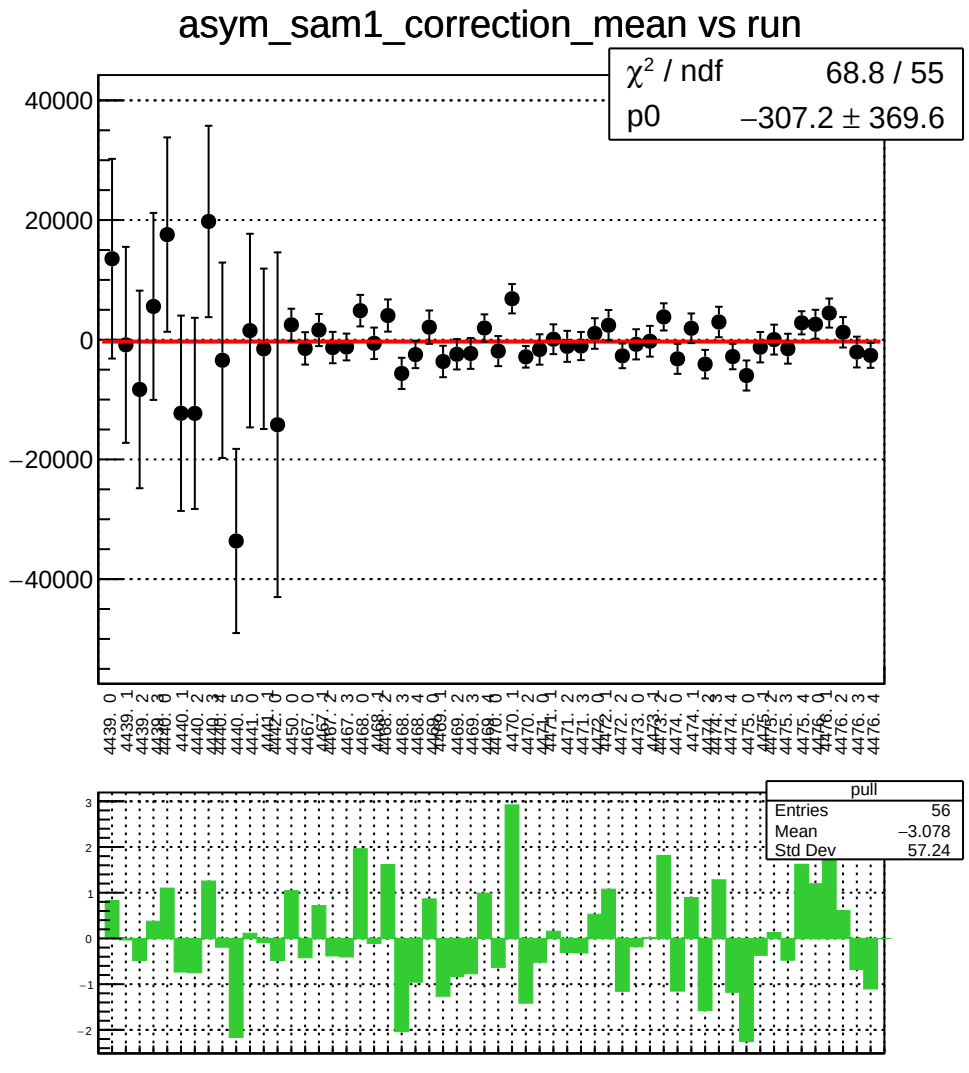

pull1D
Entries 56
Mean 0.0468
Std Dev 0.9434
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

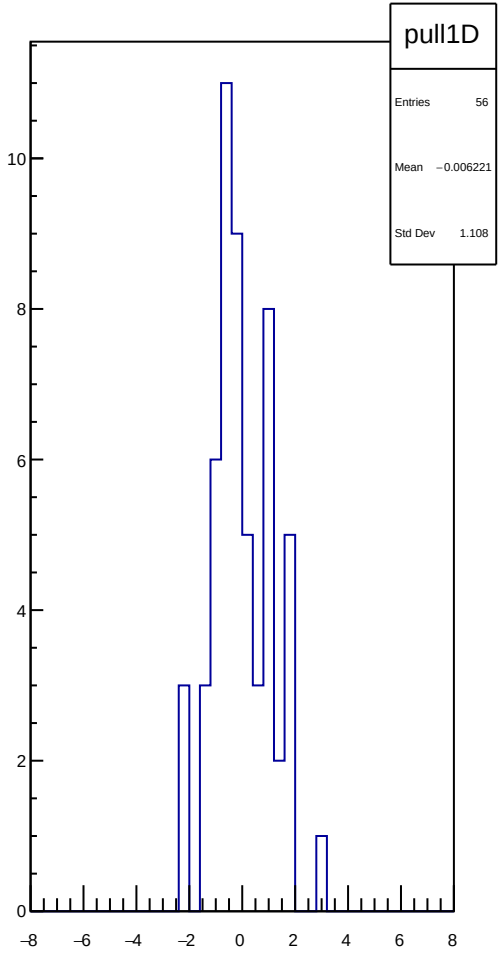

cor_sam8_rms vs run
χ² / ndf 3.048e+04 / 55
p0 1581 ± 1.54
2600
2400
2200
2000
1800
1600
1400
1200

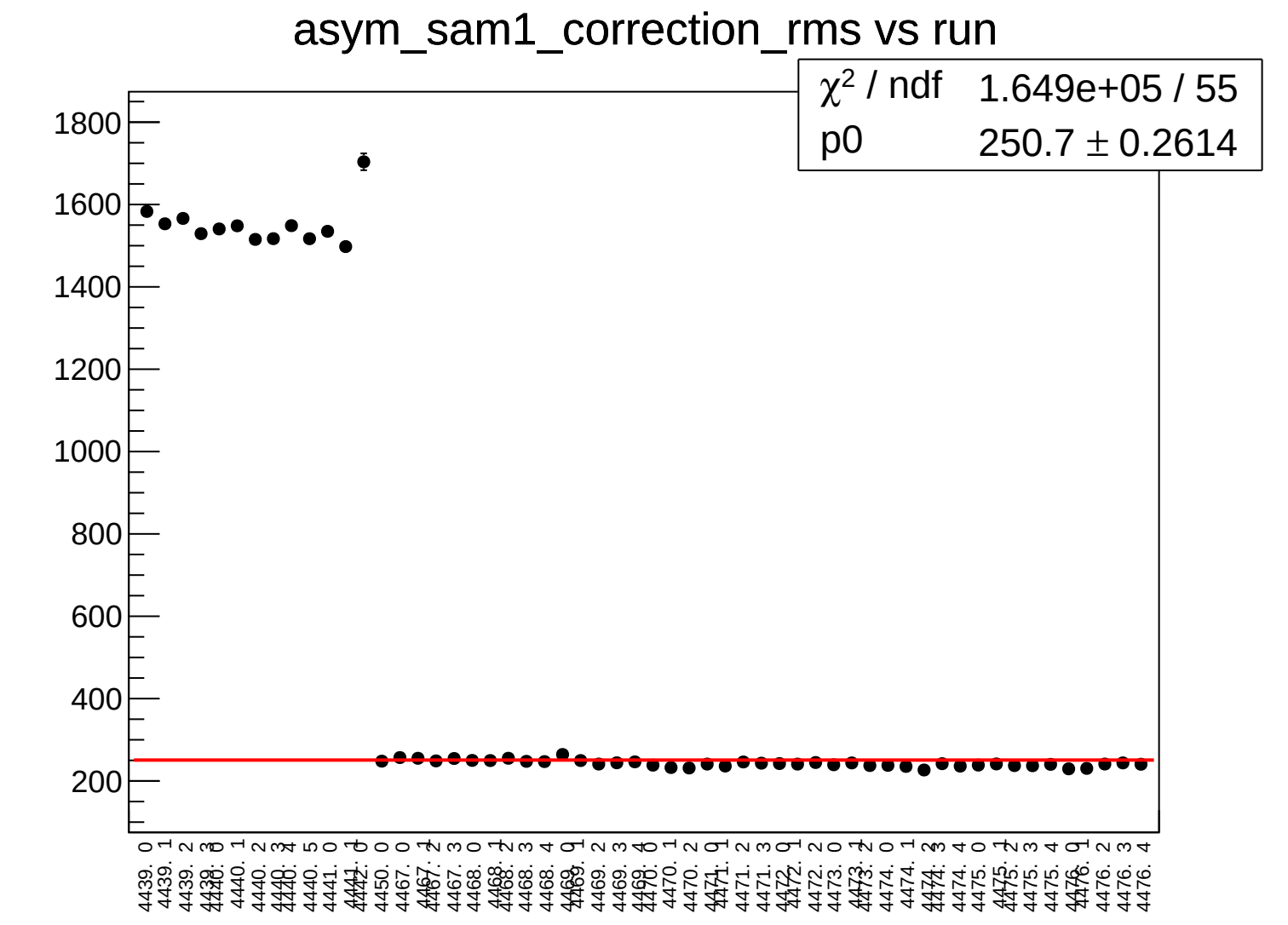

reg_asym_sam1_mean vs run
χ² / ndf 72.58 / 55
p0 −937.9 ± 267.4
10000
5000
0
−5000
−10000
pull
Entries 56
Mean 615.8
Std Dev 575.7
3
2
1
0
−1
−2

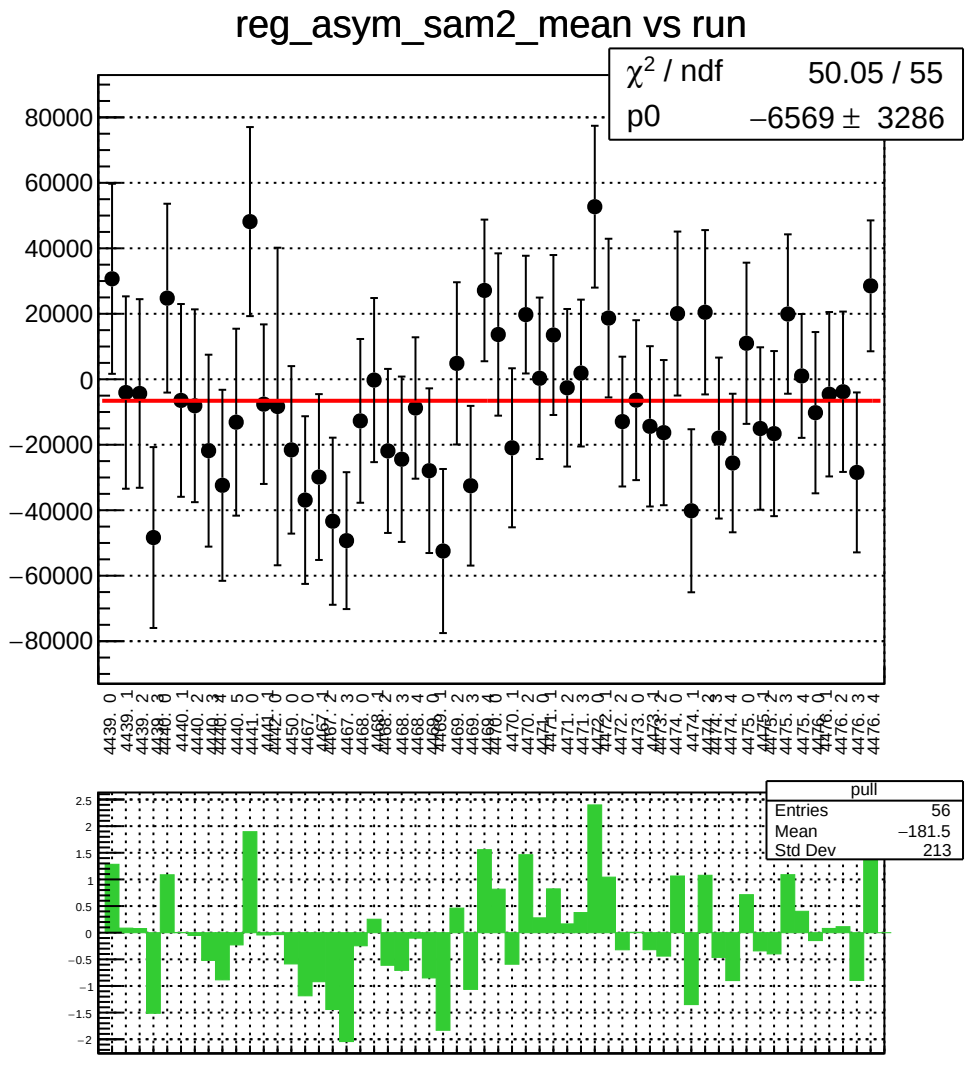

pull1D
Entries 56
Mean 0.004429
Std Dev 1.138
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

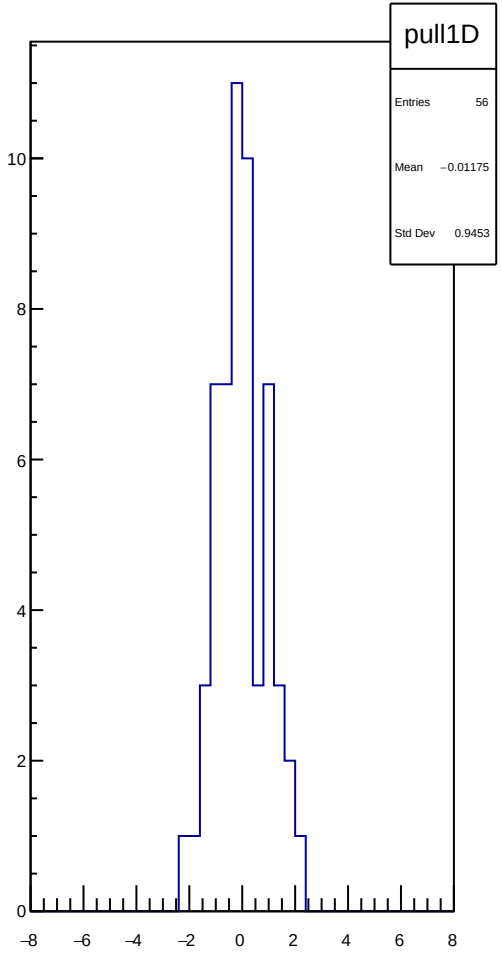

reg_asym_sam1_rms vs run
χ² / ndf 1.08e+04 / 55
p0 196 ± 0.1891
240
220
200
180
160
140

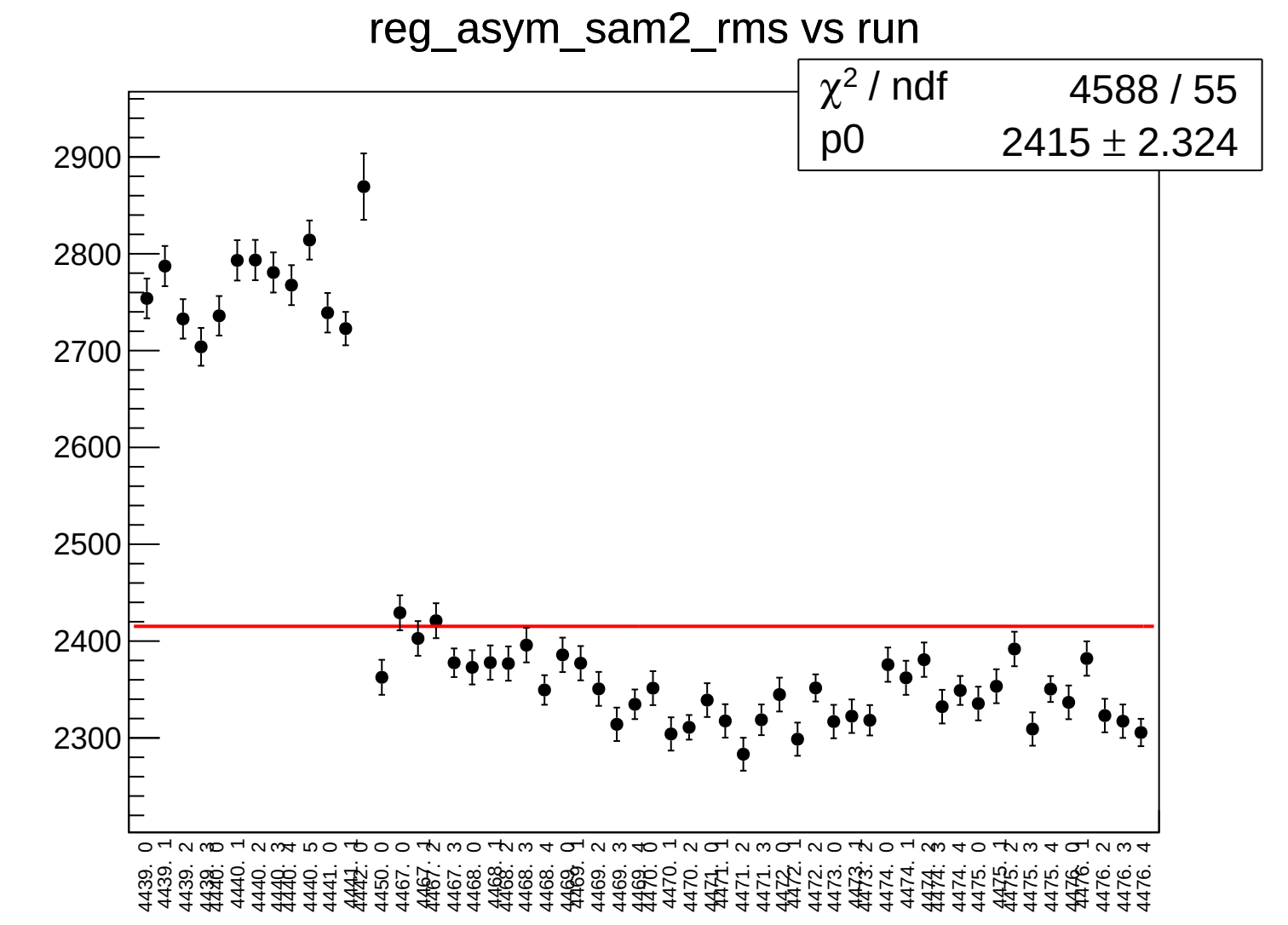

asym_sam1_correction_mean vs run
χ² / ndf 68.8 / 55
p0 −307.2 ± 369.6
40000
20000
0
−20000
−40000
pull
Entries 56
Mean −3.078
Std Dev 57.24
3
2
1
0
−1
−2

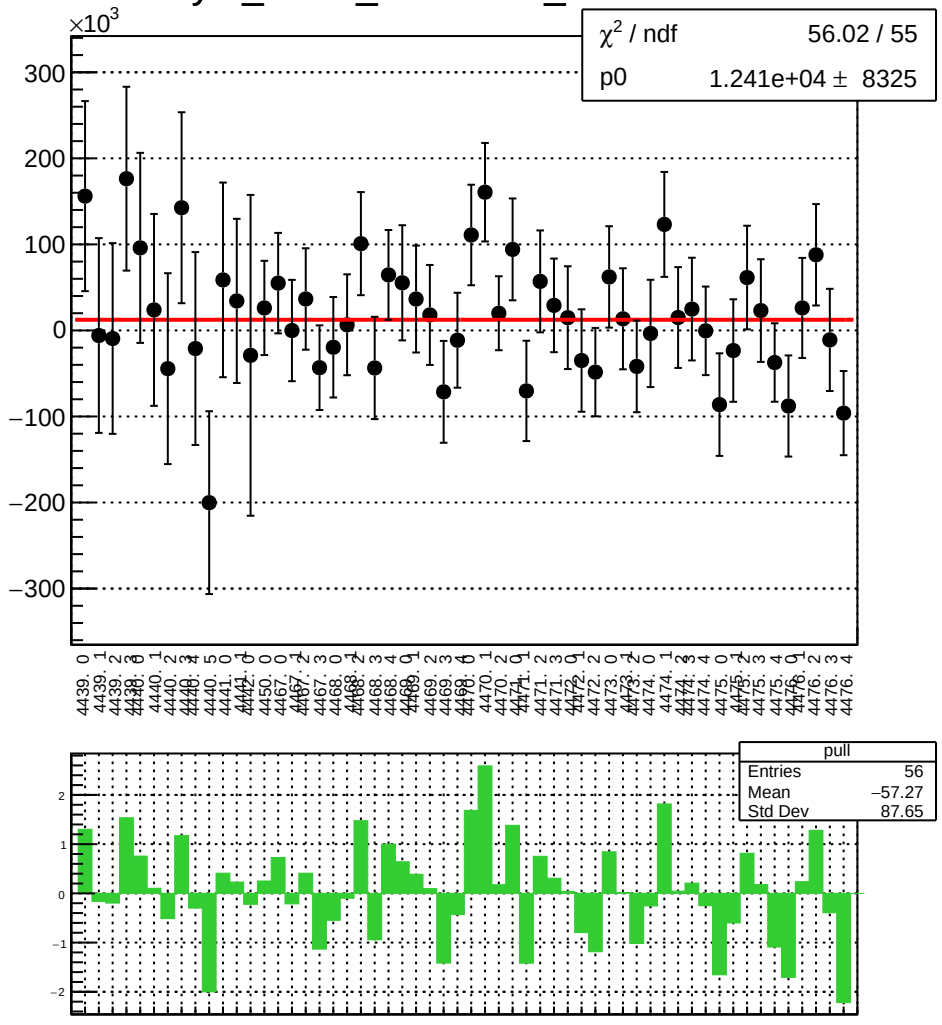

pull1D
Entries 56
Mean −0.006221
Std Dev 1.108
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

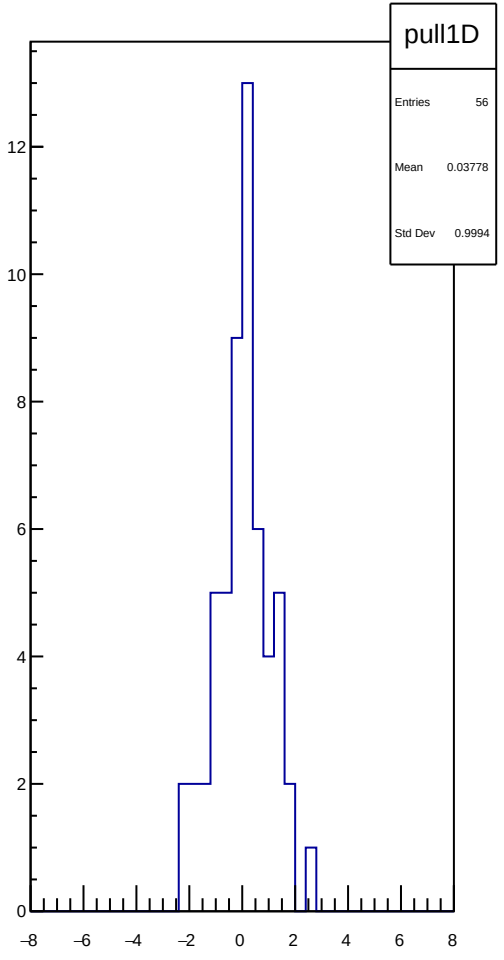

asym_sam1_correction_rms vs run
χ² / ndf 1.649e+05 / 55
p0 250.7 ± 0.2614
1800
1600
1400
1200
1000
800
600
400
200

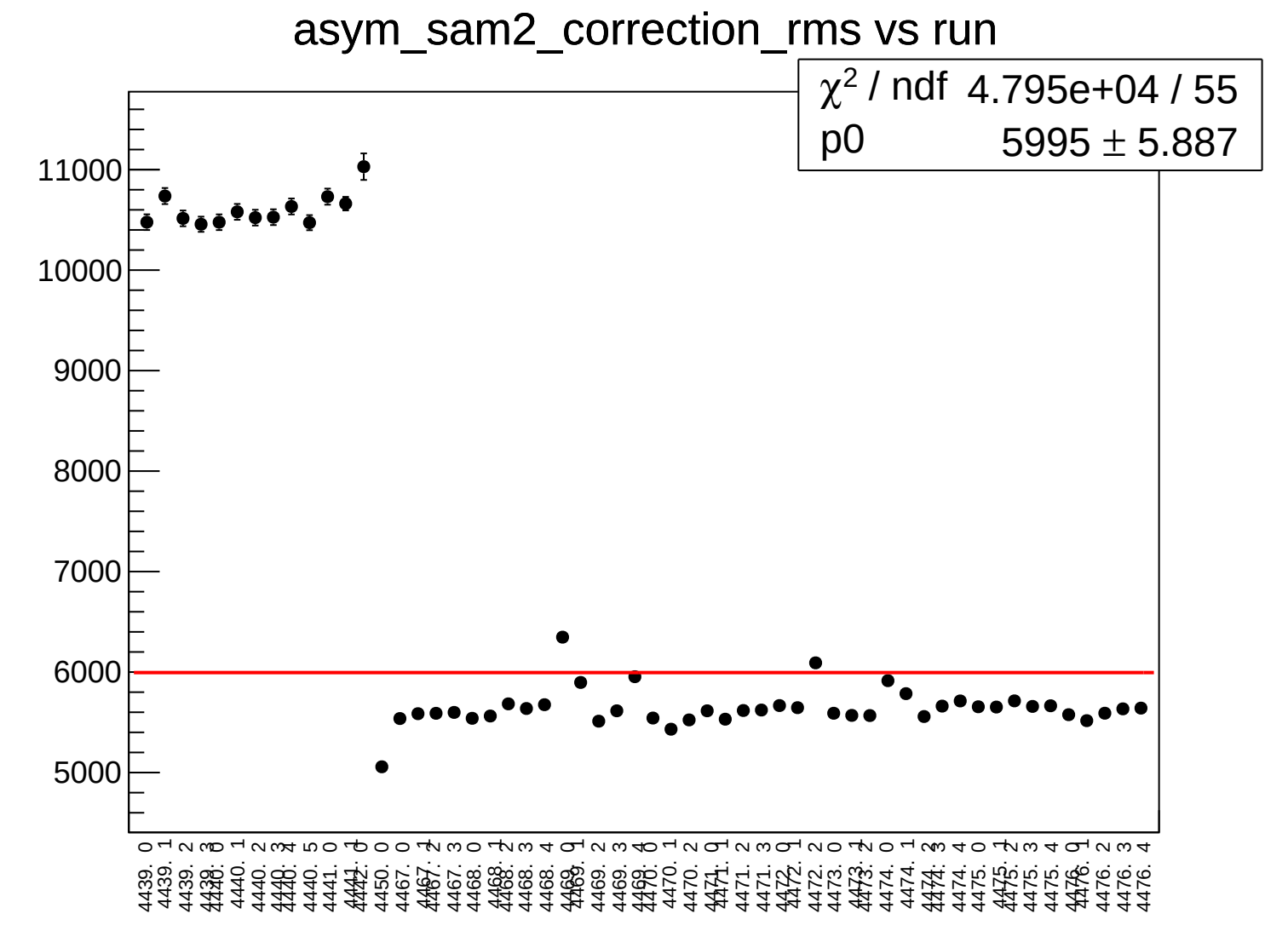

reg_asym_sam2_mean vs run
χ² / ndf 50.05 / 55
p0 −6569 ± 3286
pull
Entries 56
Mean −181.5
Std Dev 213

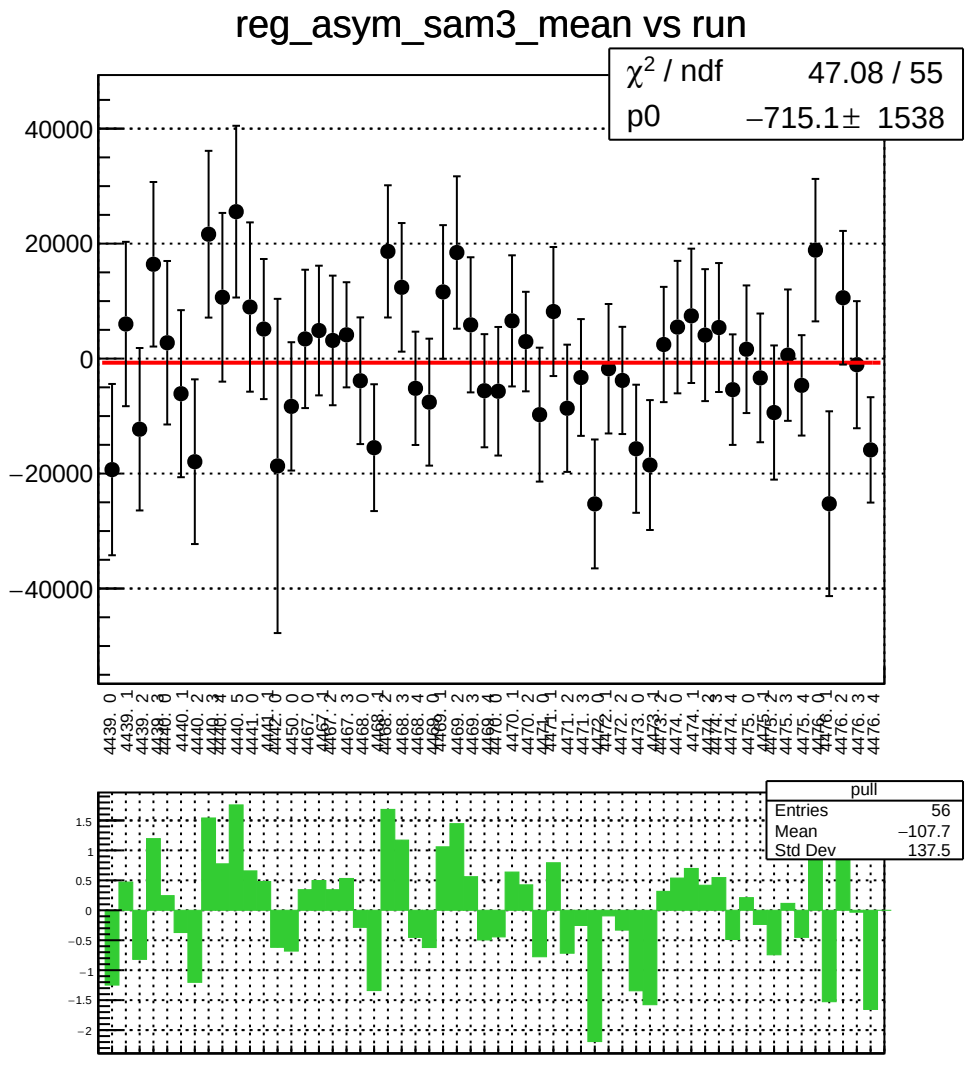

pull1D
Entries 56
Mean −0.01175
Std Dev 0.9453

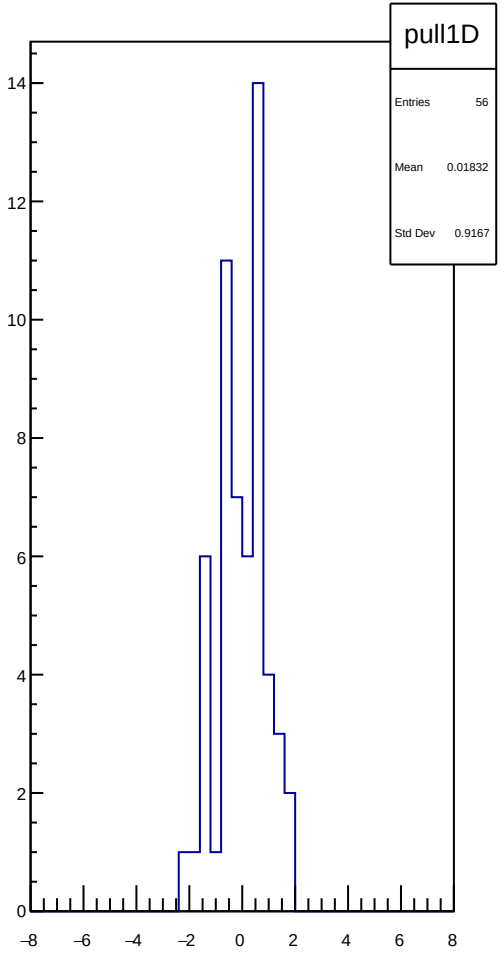

reg_asym_sam2_rms vs run
χ² / ndf 4588 / 55
p0 2415 ± 2.324
2900
2800
2700
2600
2500
2400
2300

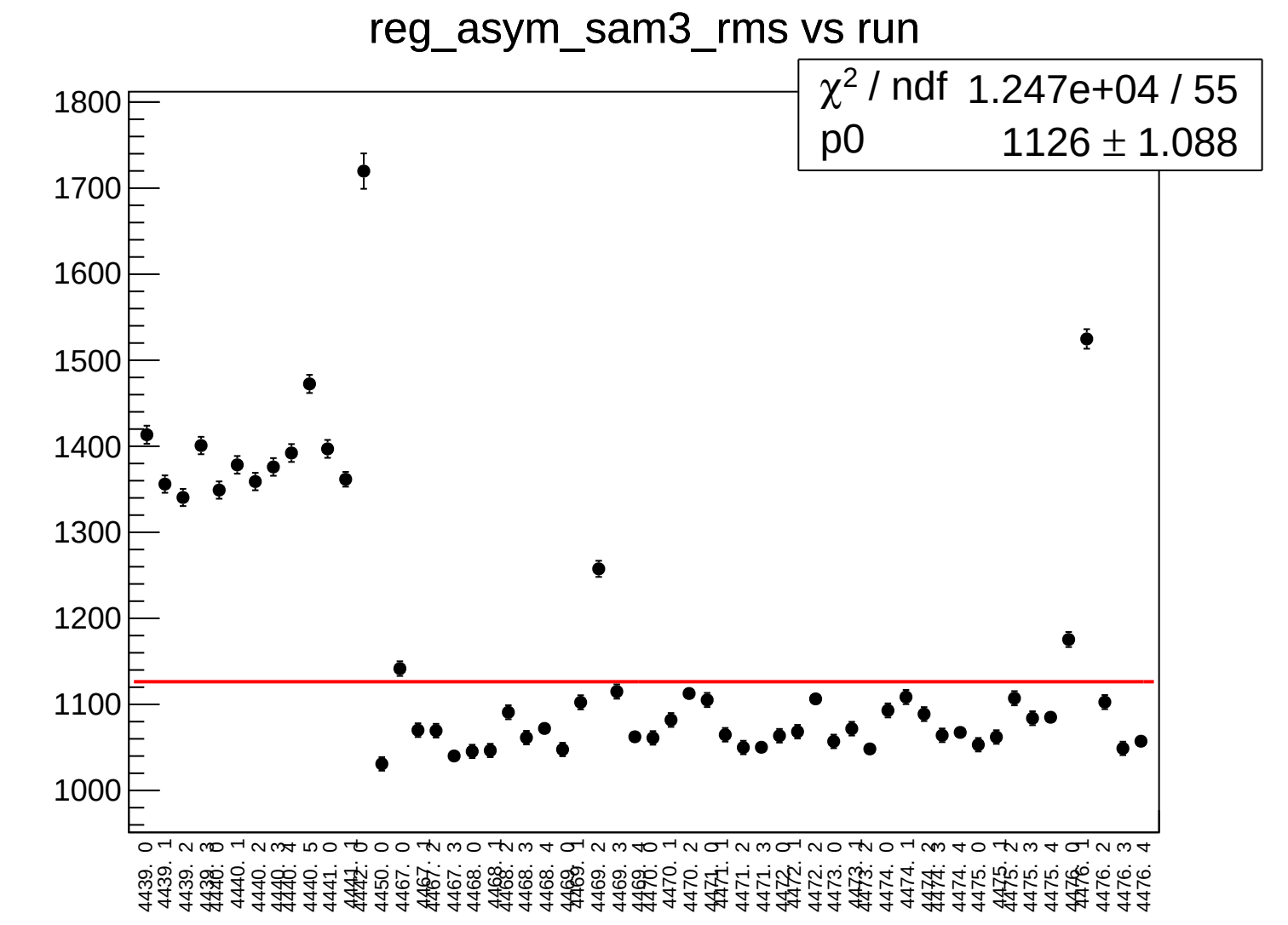

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 56.02 / 55
p0 1.241e+04 ± 8325
pull
Entries 56
Mean −57.27
Std Dev 87.65

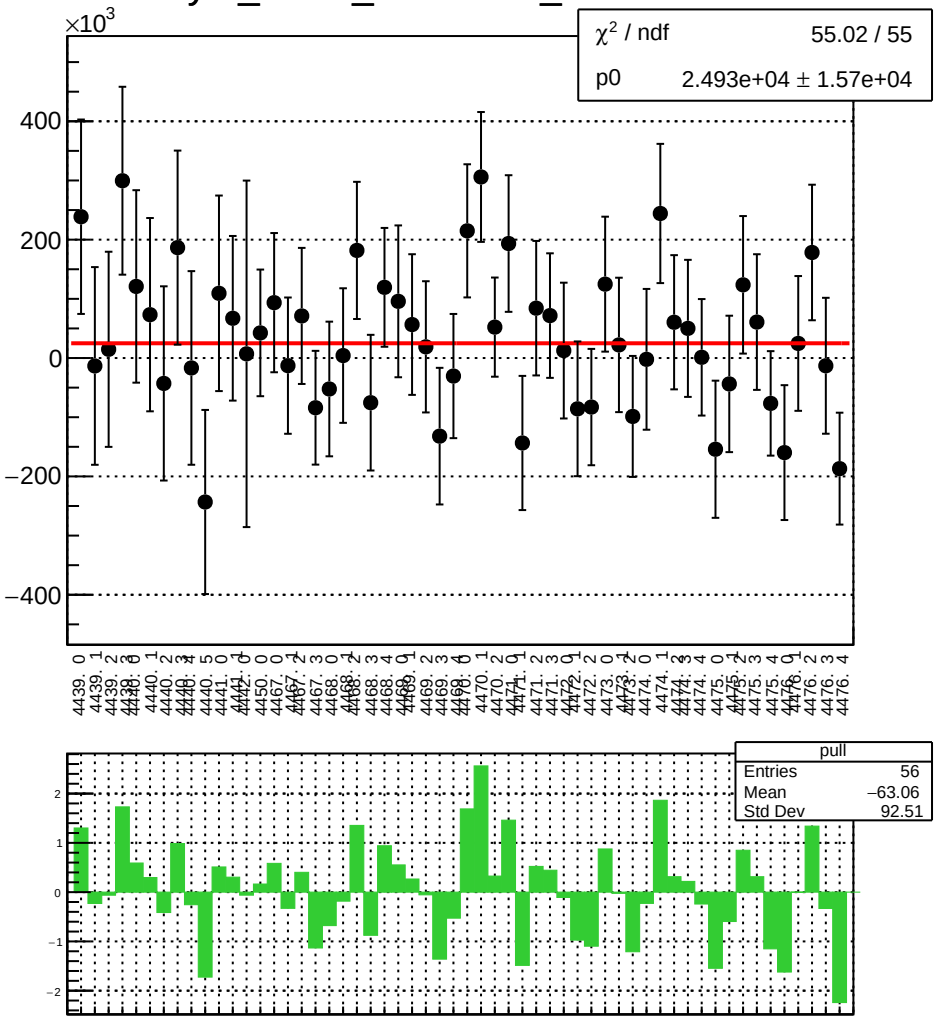

pull1D
Entries 56
Mean 0.03778
Std Dev 0.9994

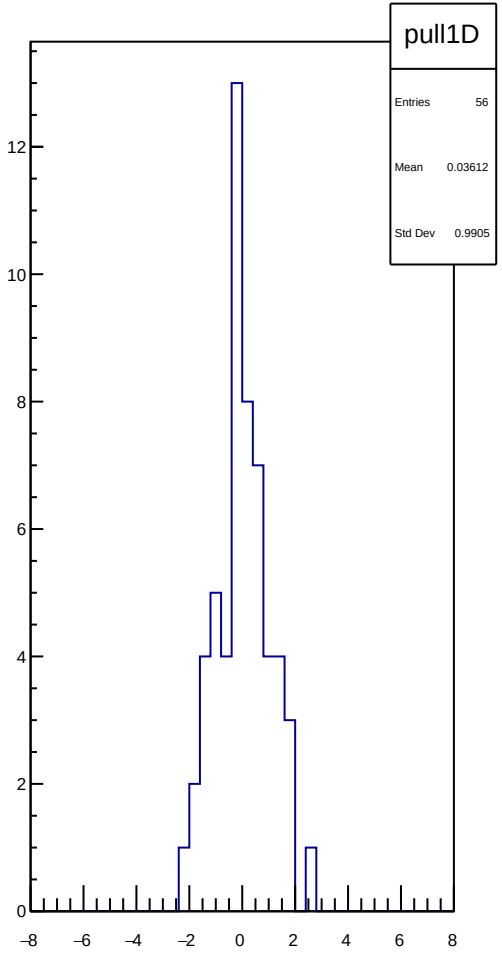

asym_sam2_correction_rms vs run
χ² / ndf 4.795e+04 / 55
p0 5995 ± 5.887
11000
10000
9000
8000
7000
6000
5000

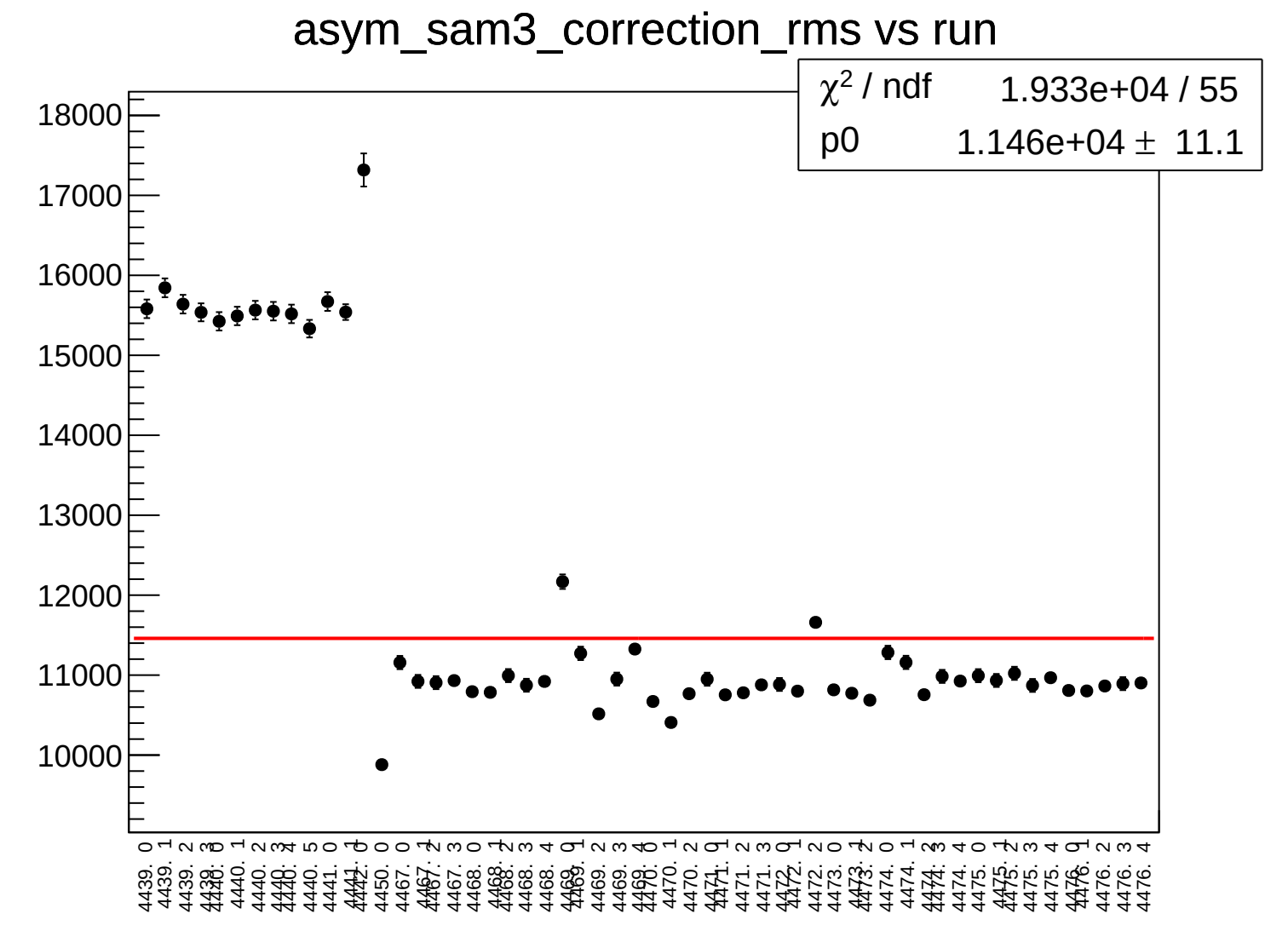

reg_asym_sam3_mean vs run
χ² / ndf 47.08 / 55
p0 −715.1± 1538
40000
20000
0
−20000
−40000
pull
Entries 56
Mean −107.7
Std Dev 137.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

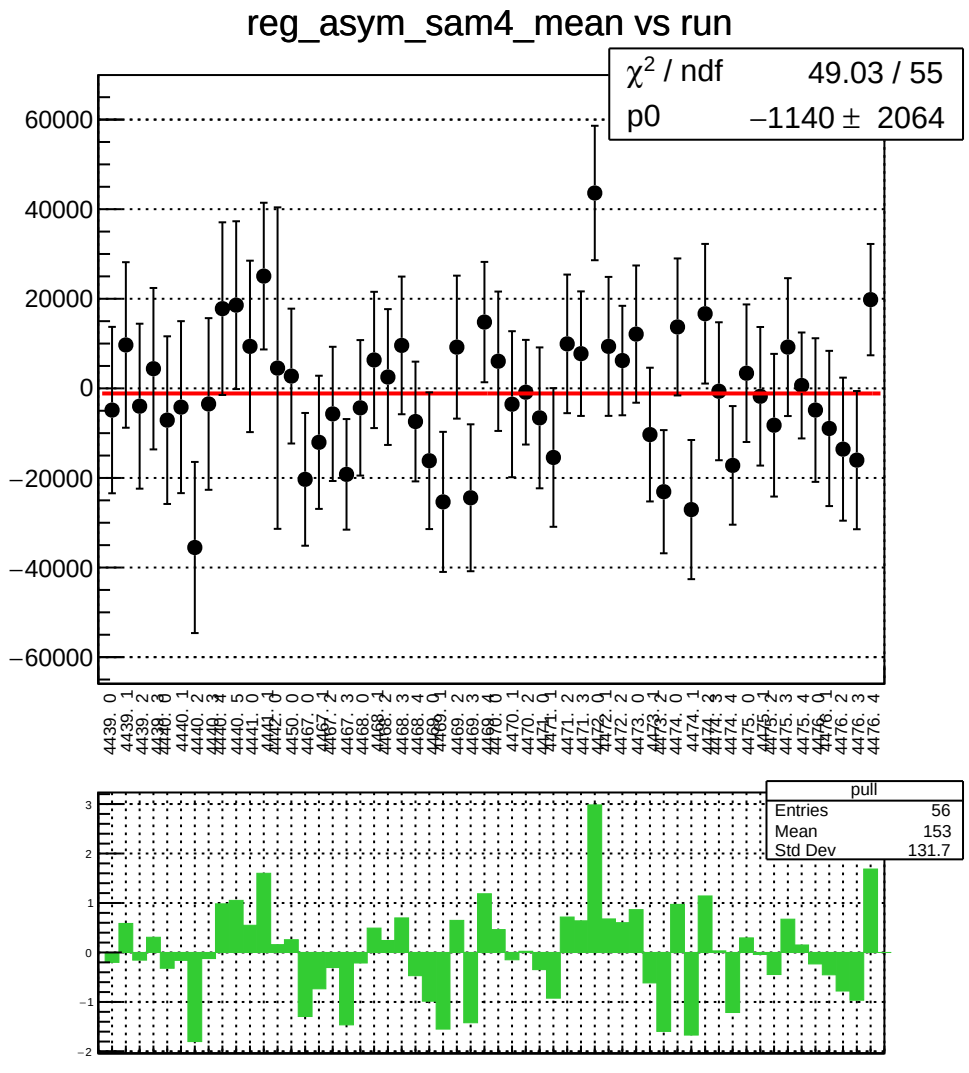

pull1D
Entries 56
Mean 0.01832
Std Dev 0.9167
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

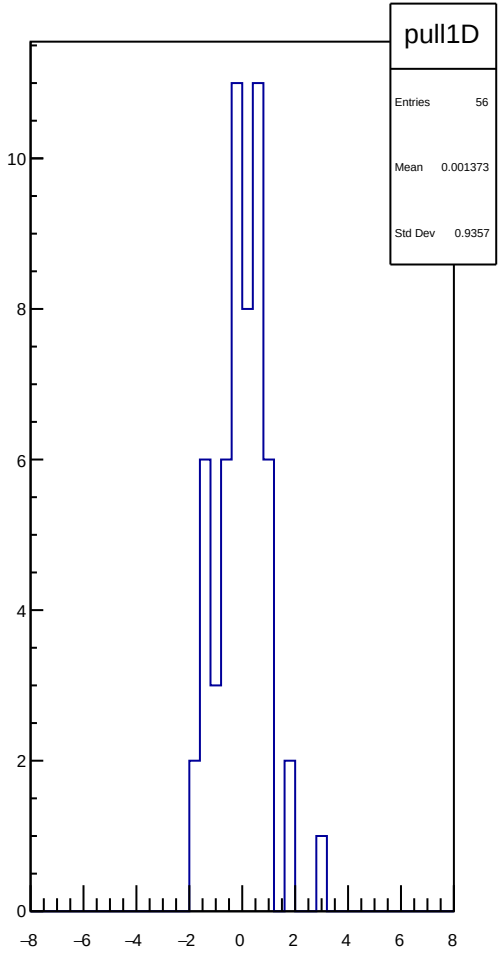

reg_asym_sam3_rms vs run
χ² / ndf 1.247e+04 / 55
p0 1126 ± 1.088
1800
1700
1600
1500
1400
1300
1200
1100
1000

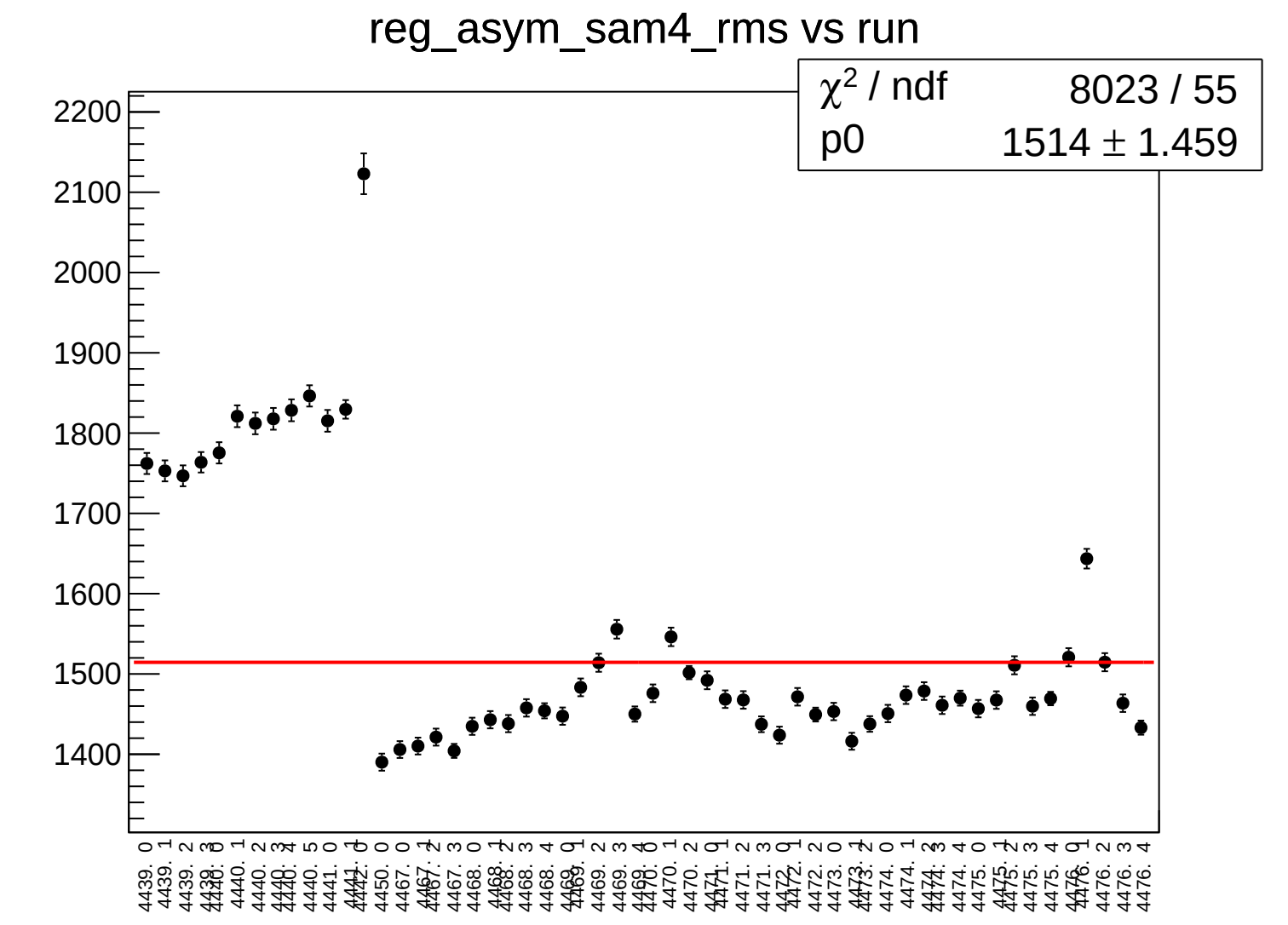

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 55.02 / 55
p0 2.493e+04 ± 1.57e+04
400
200
0
−200
−400
pull
Entries 56
Mean −63.06
Std Dev 92.51
2
1
0
−1
−2

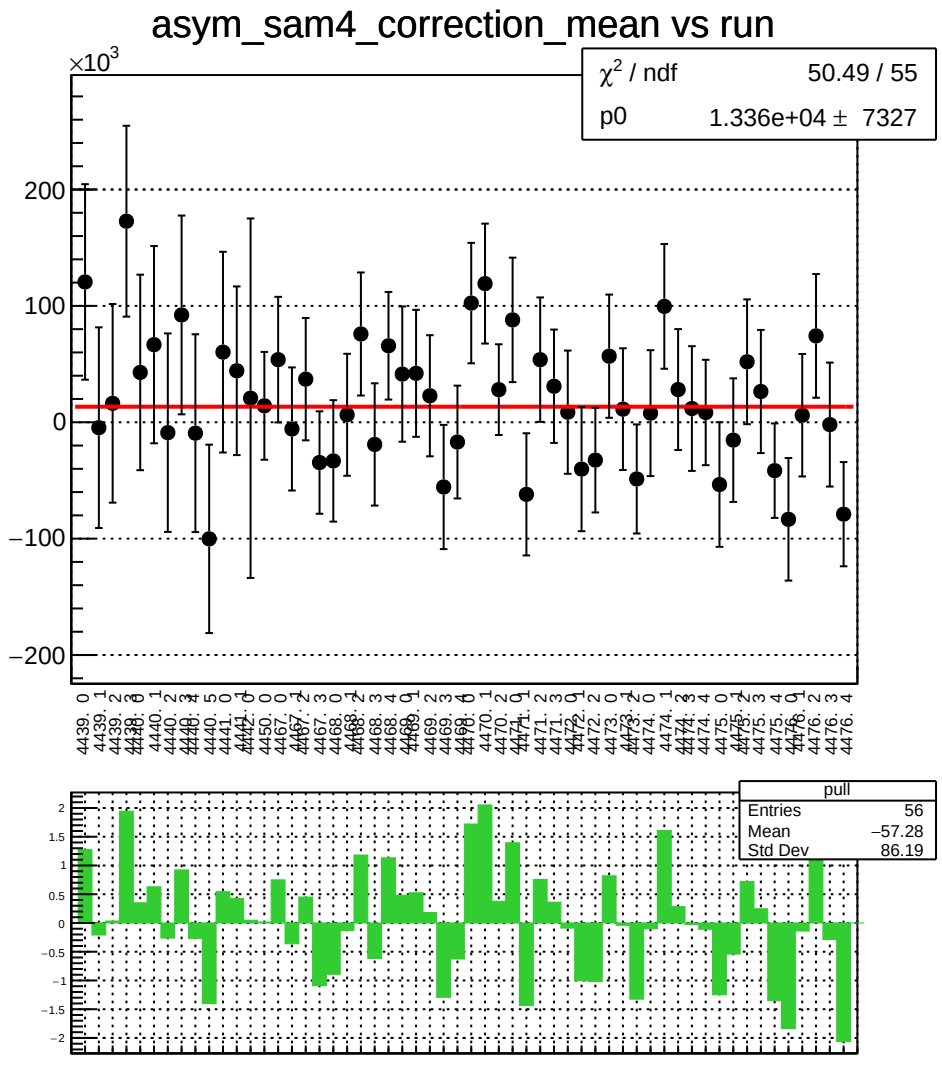

pull1D
Entries 56
Mean 0.03612
Std Dev 0.9905
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

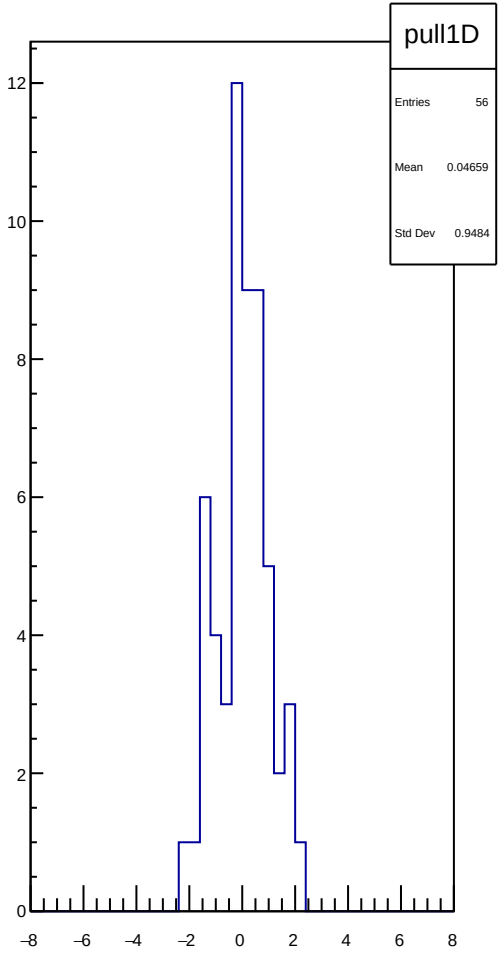

asym_sam3_correction_rms vs run
χ² / ndf 1.933e+04 / 55
p0 1.146e+04 ± 11.1
18000
17000
16000
15000
14000
13000
12000
11000
10000

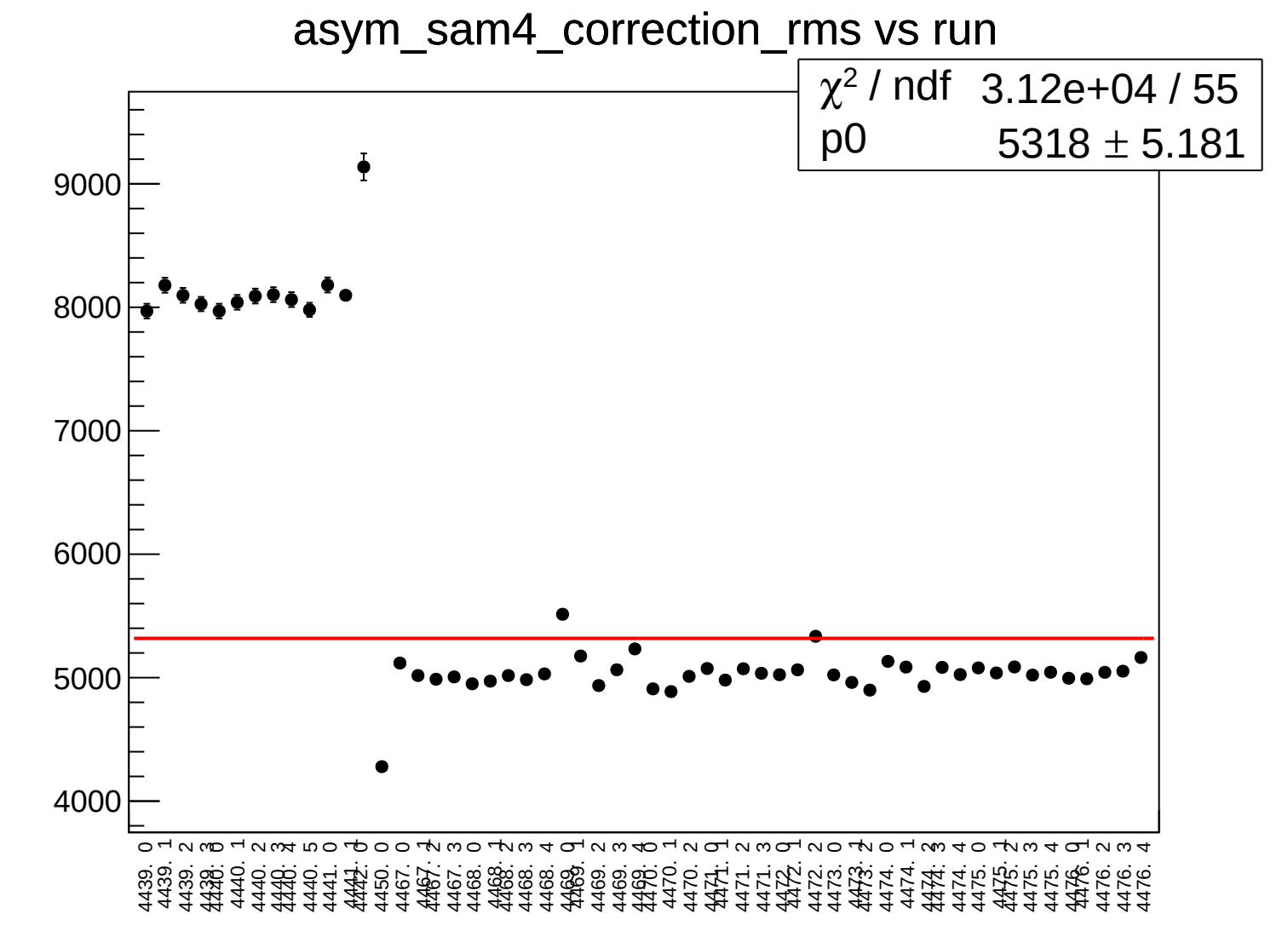

reg_asym_sam4_mean vs run
χ² / ndf 49.03 / 55
p0 −1140 ± 2064
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 56
Mean 153
Std Dev 131.7
3
2
1
0
−1
−2

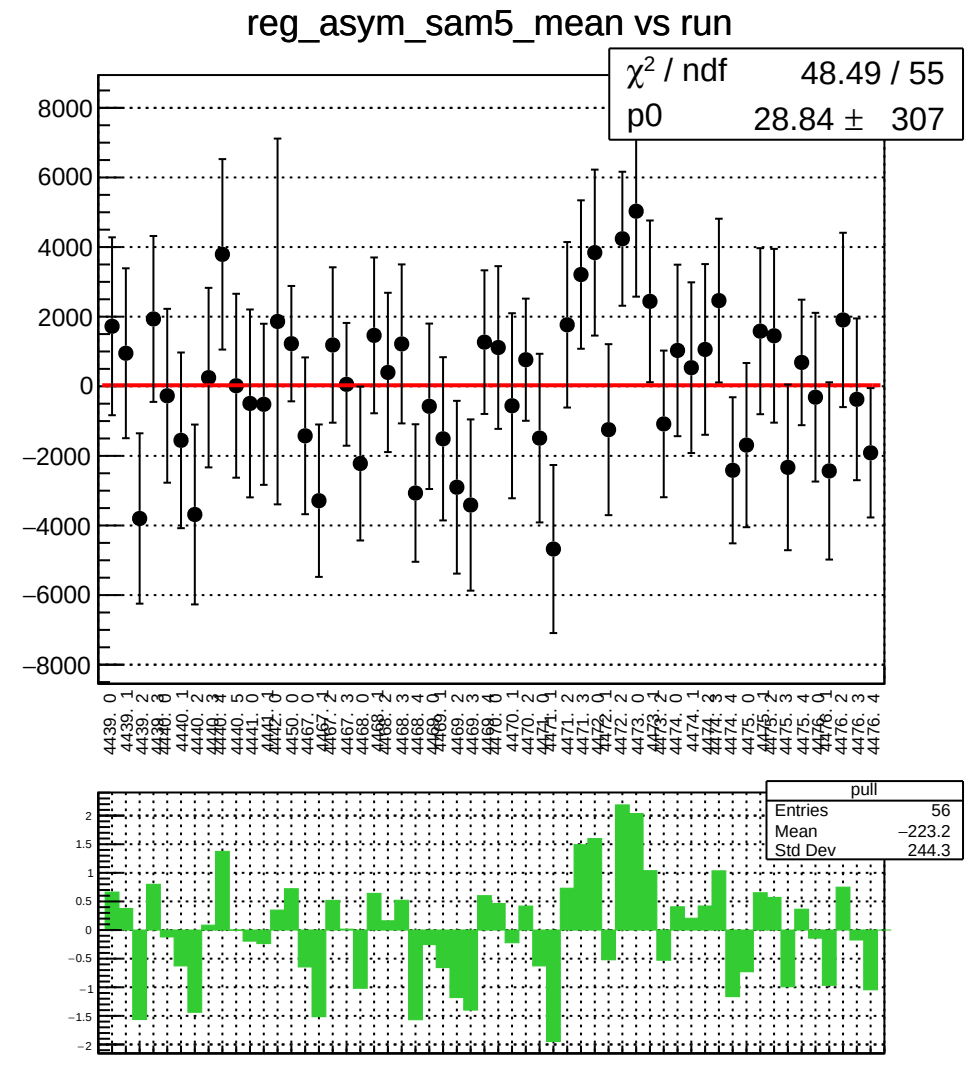

pull1D
Entries 56
Mean 0.001373
Std Dev 0.9357
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

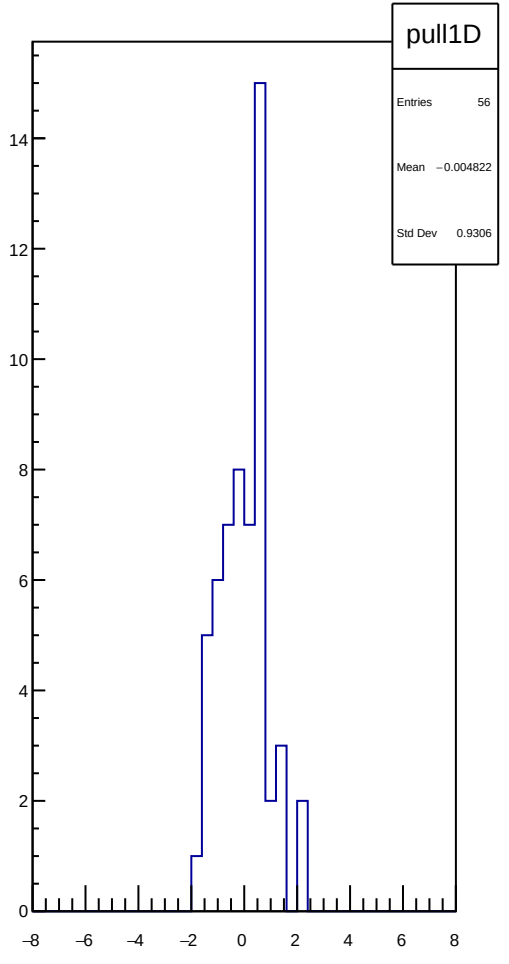

reg_asym_sam4_rms vs run
χ² / ndf 8023 / 55
p0 1514 ± 1.459
2200
2100
2000
1900
1800
1700
1600
1500
1400
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

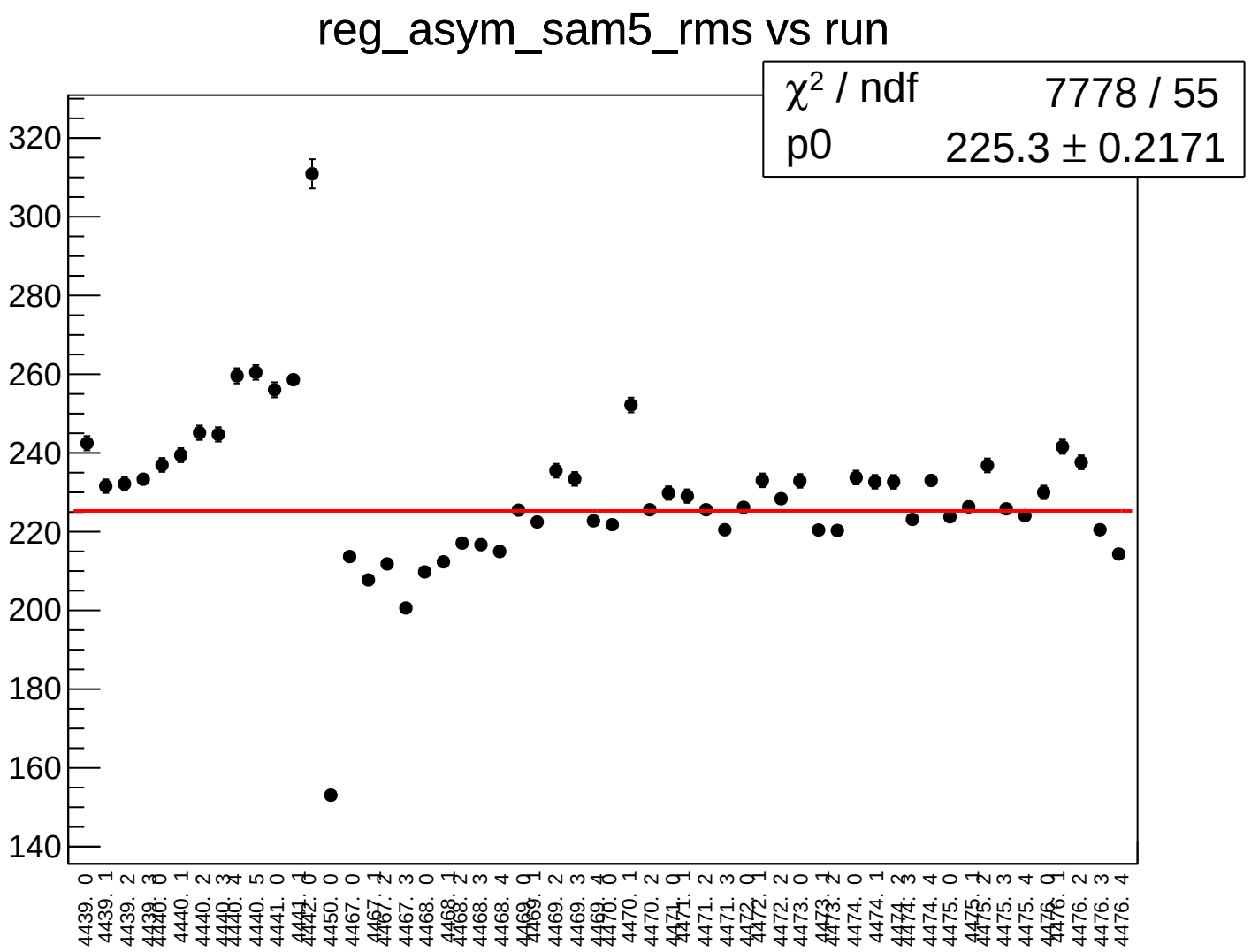

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 50.49 / 55
p0 1.336e+04 ± 7327
200
100
0
−100
−200
pull
Entries 56
Mean −57.28
Std Dev 86.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

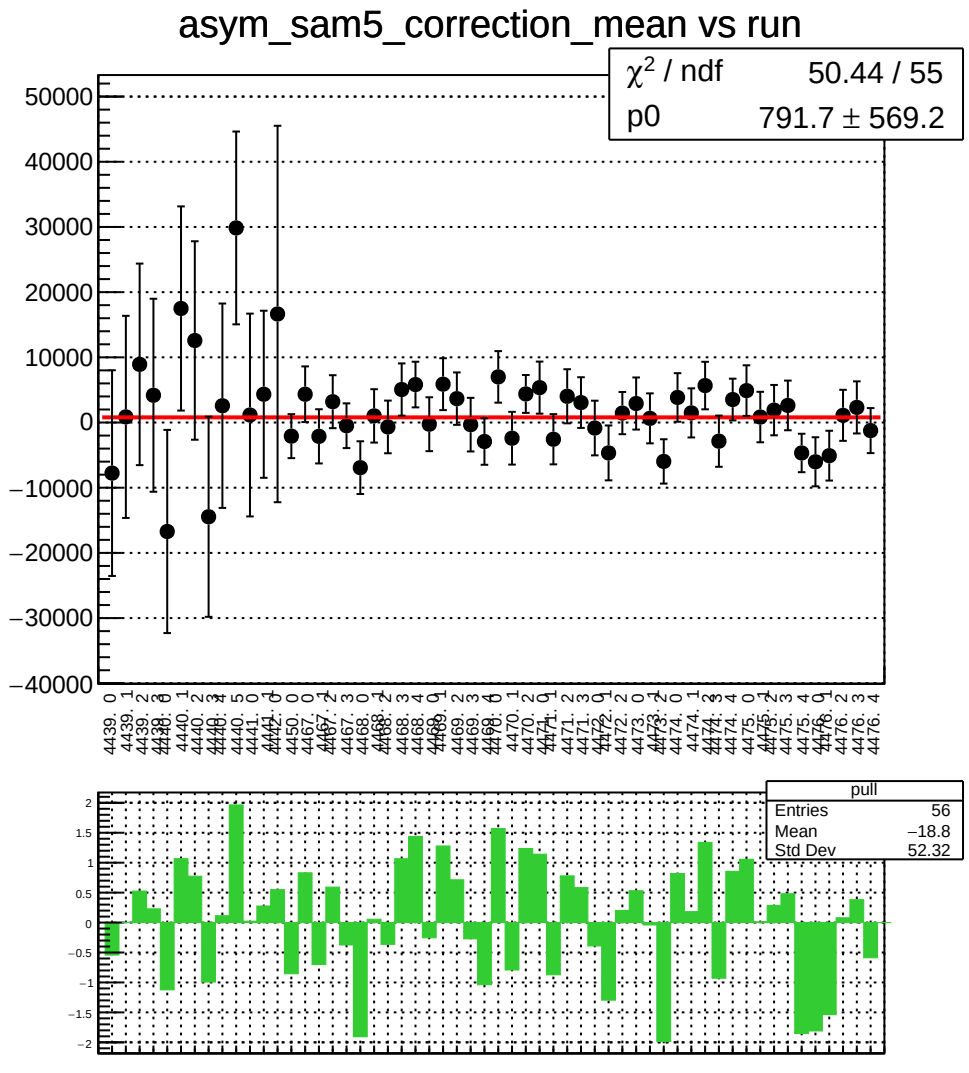

pull1D
Entries 56
Mean 0.04659
Std Dev 0.9484
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

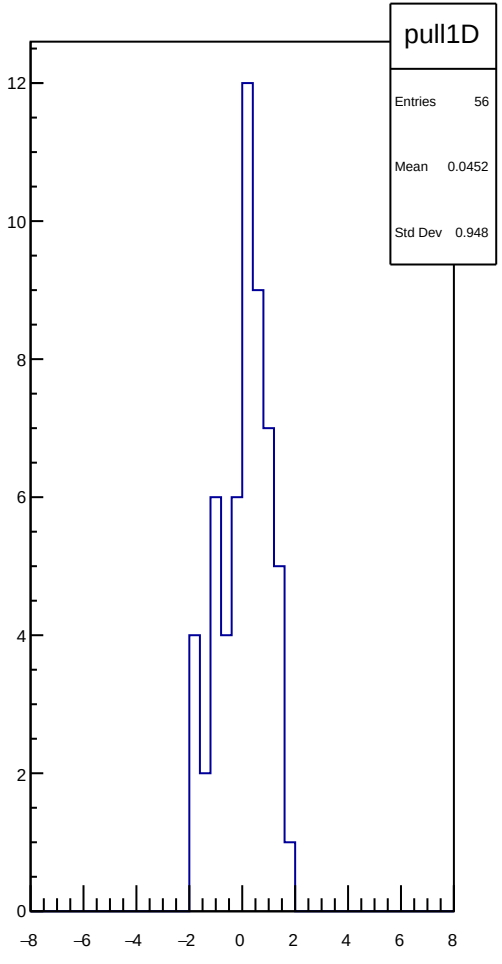

asym_sam4_correction_rms vs run
χ² / ndf 3.12e+04 / 55
p0 5318 ± 5.181
9000
8000
7000
6000
5000
4000

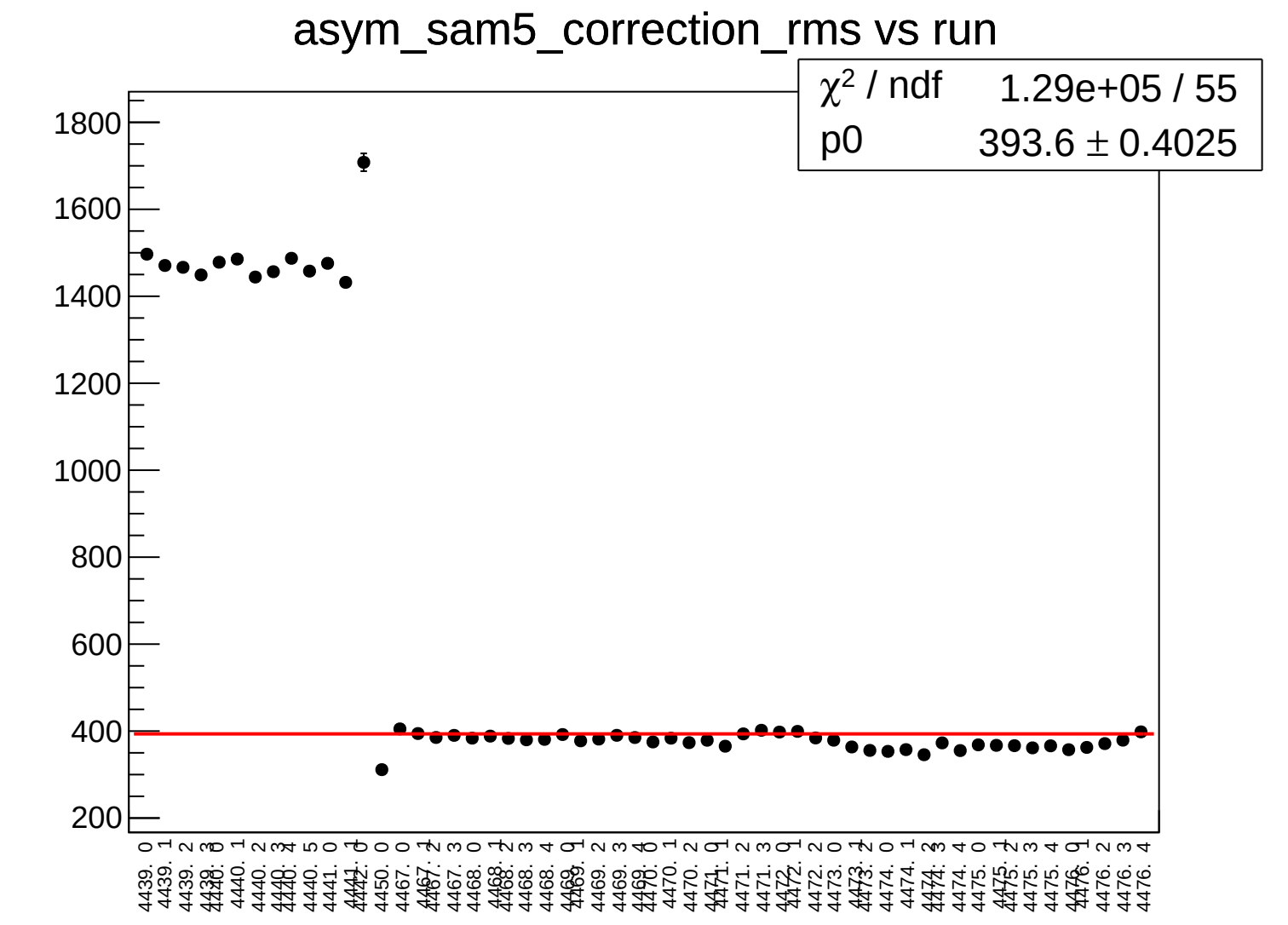

reg_asym_sam5_mean vs run
χ² / ndf 48.49 / 55
p0 28.84 ± 307
pull
Entries 56
Mean −223.2
Std Dev 244.3

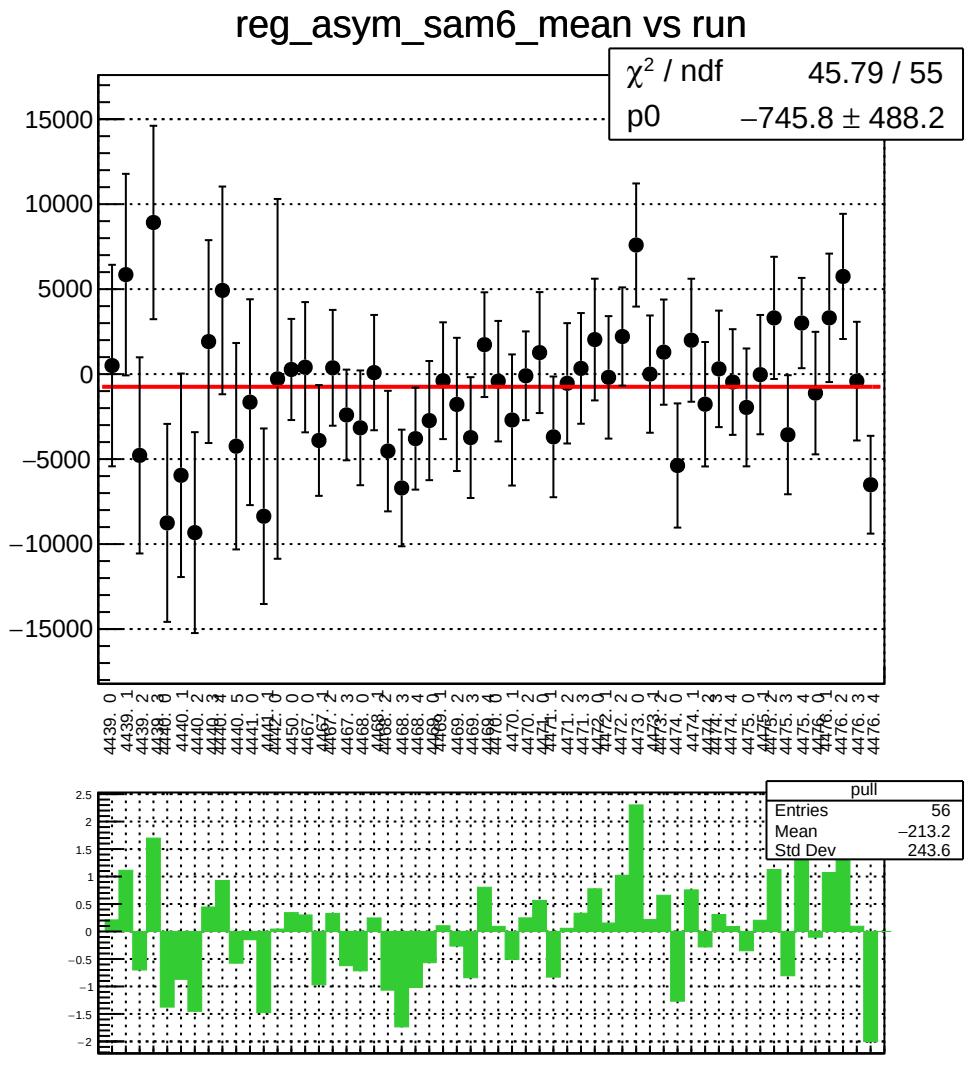

pull1D
Entries 56
Mean −0.004822
Std Dev 0.9306

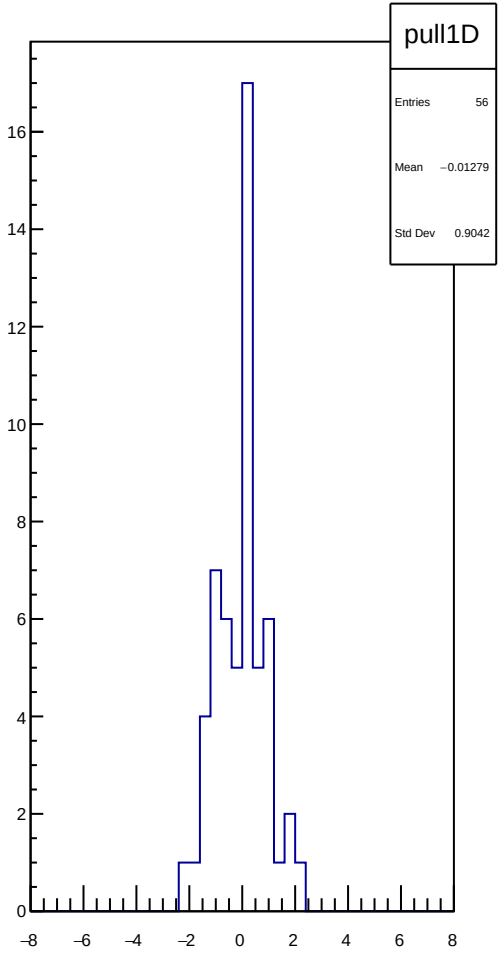

reg_asym_sam5_rms vs run
χ² / ndf 7778 / 55
p0 225.3 ± 0.2171
320
300
280
260
240
220
200
180
160
140

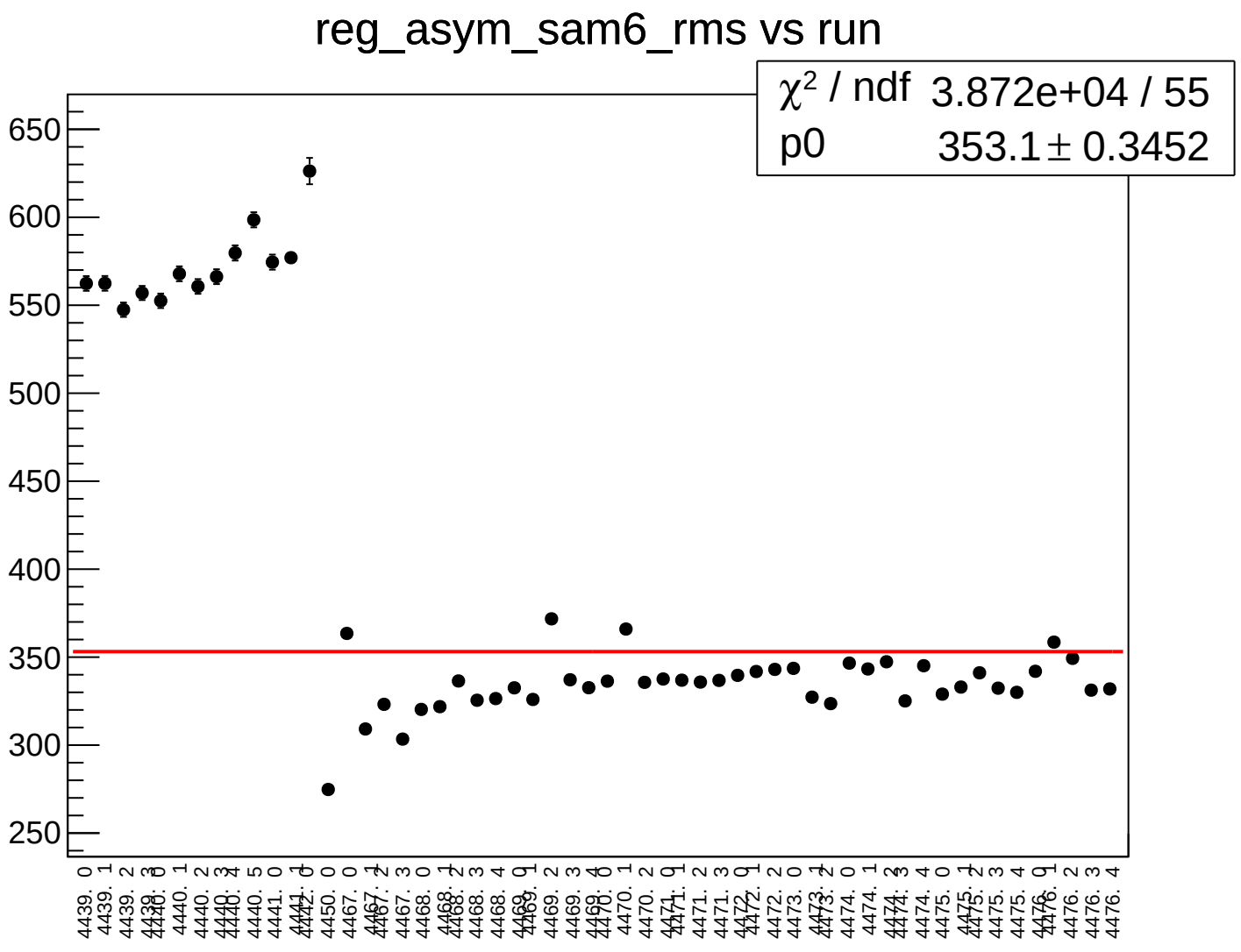

asym_sam5_correction_mean vs run
χ² / ndf 50.44 / 55
p0 791.7 ± 569.2
pull
Entries 56
Mean −18.8
Std Dev 52.32

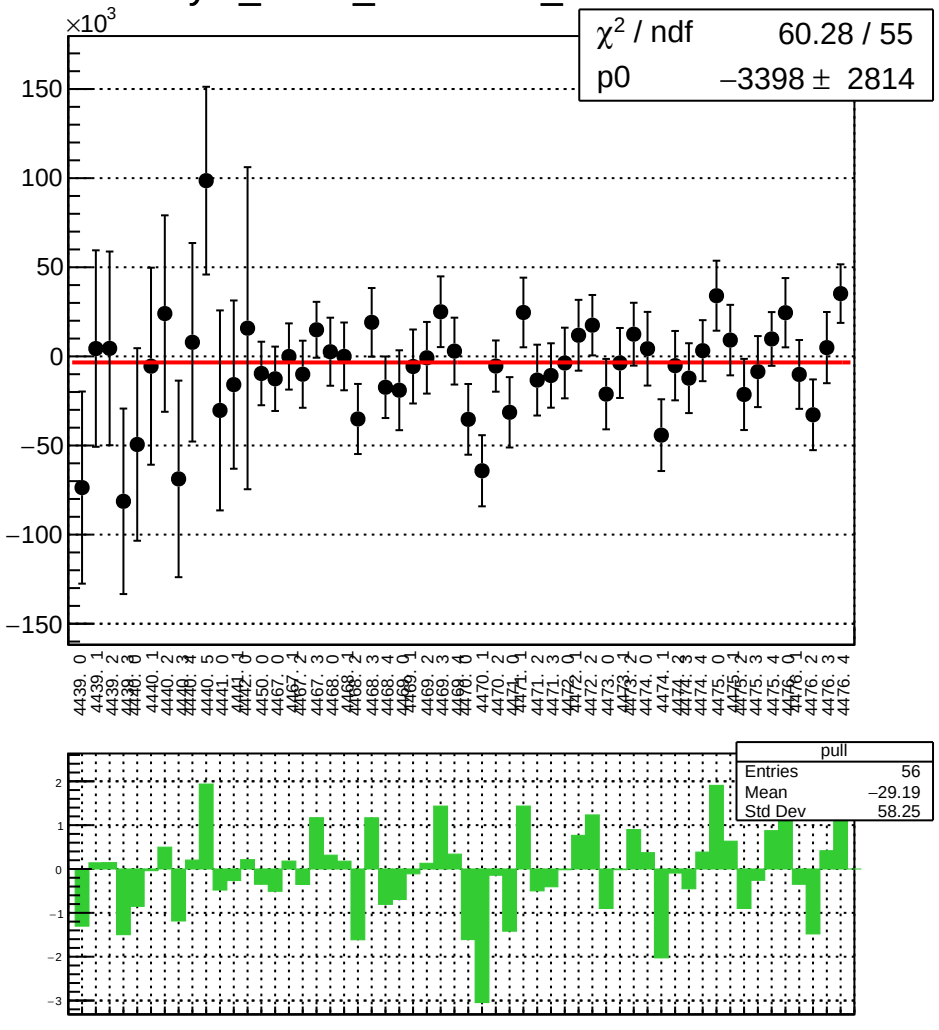

pull1D
Entries 56
Mean 0.0452
Std Dev 0.948

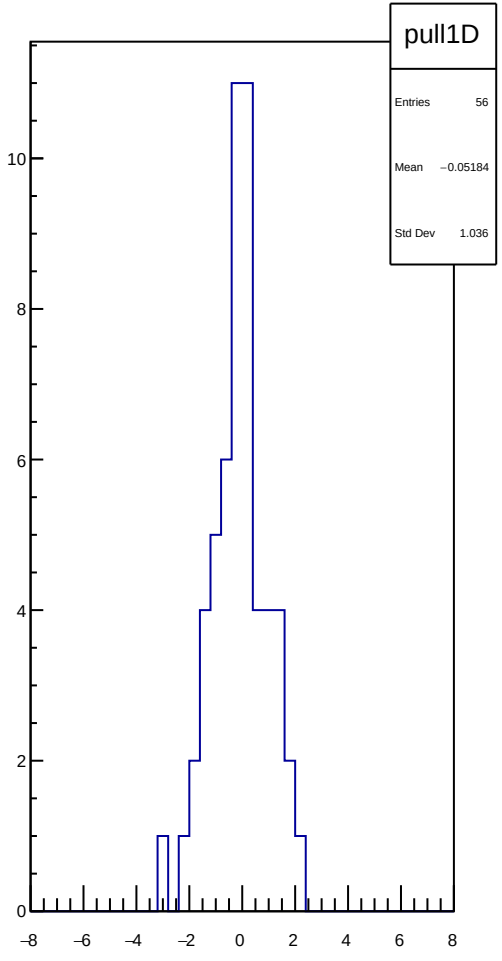

asym_sam5_correction_rms vs run
χ² / ndf 1.29e+05 / 55
p0 393.6 ± 0.4025
1800
1600
1400
1200
1000
800
600
400
200
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

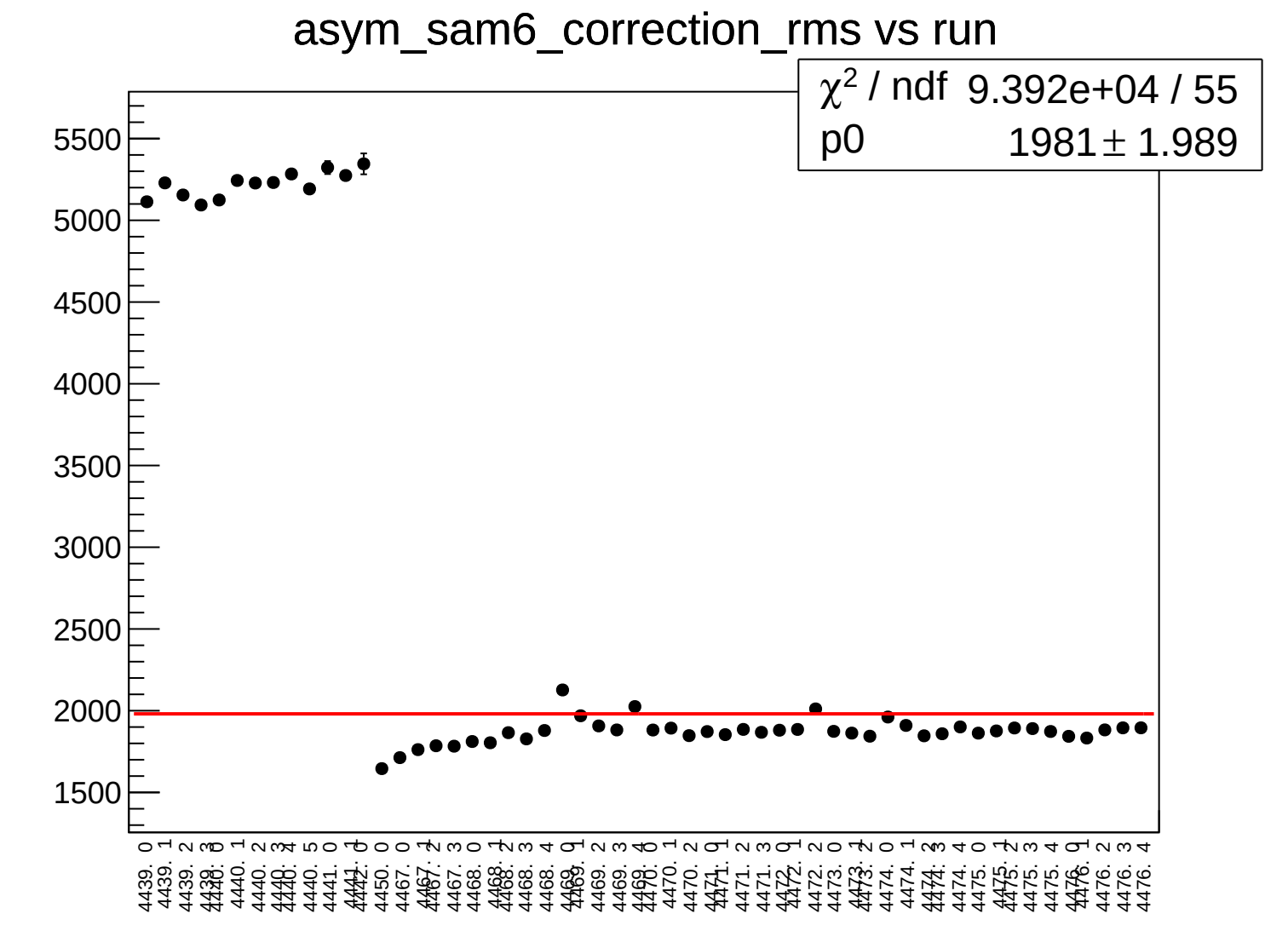

reg_asym_sam6_mean vs run
χ² / ndf 45.79 / 55
p0 −745.8 ± 488.2
pull
Entries 56
Mean −213.2
Std Dev 243.6

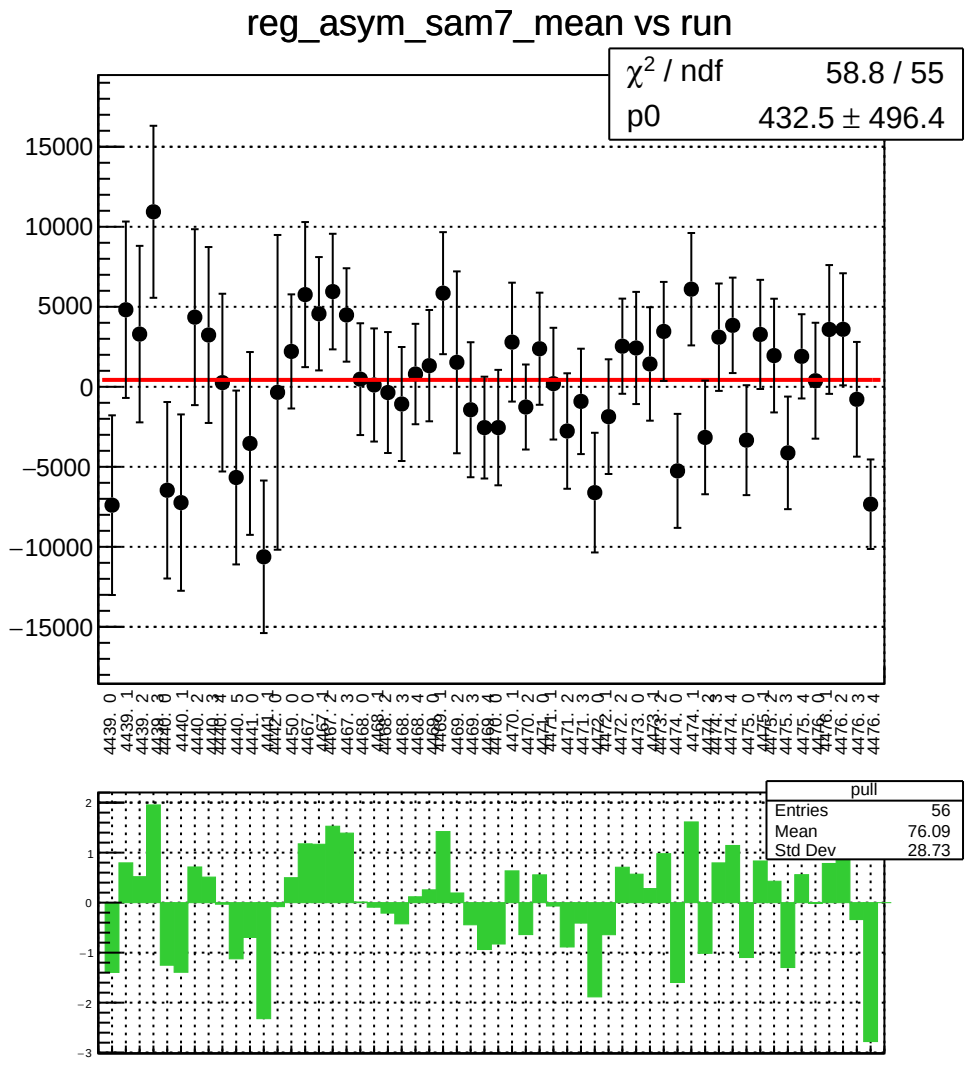

pull1D
Entries 56
Mean −0.01279
Std Dev 0.9042

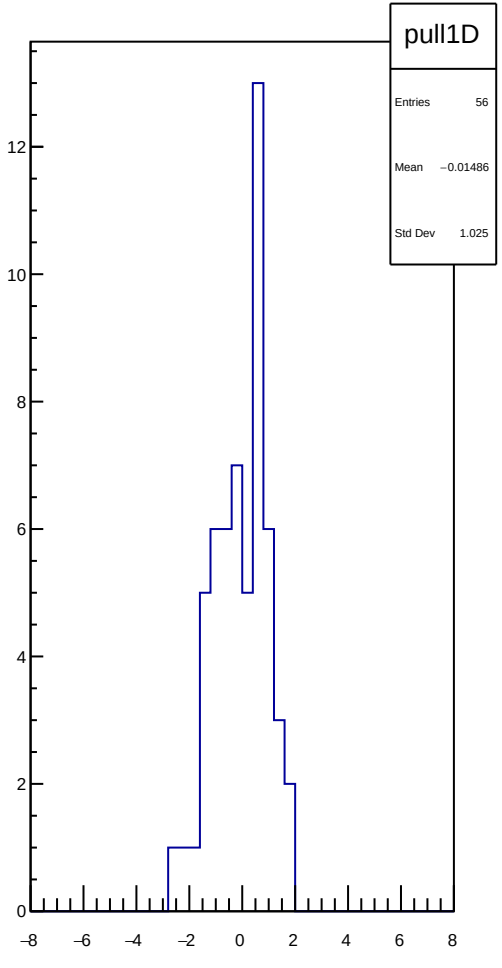

reg_asym_sam6_rms vs run
χ² / ndf 3.872e+04 / 55
p0 353.1 ± 0.3452
650
600
550
500
450
400
350
300
250

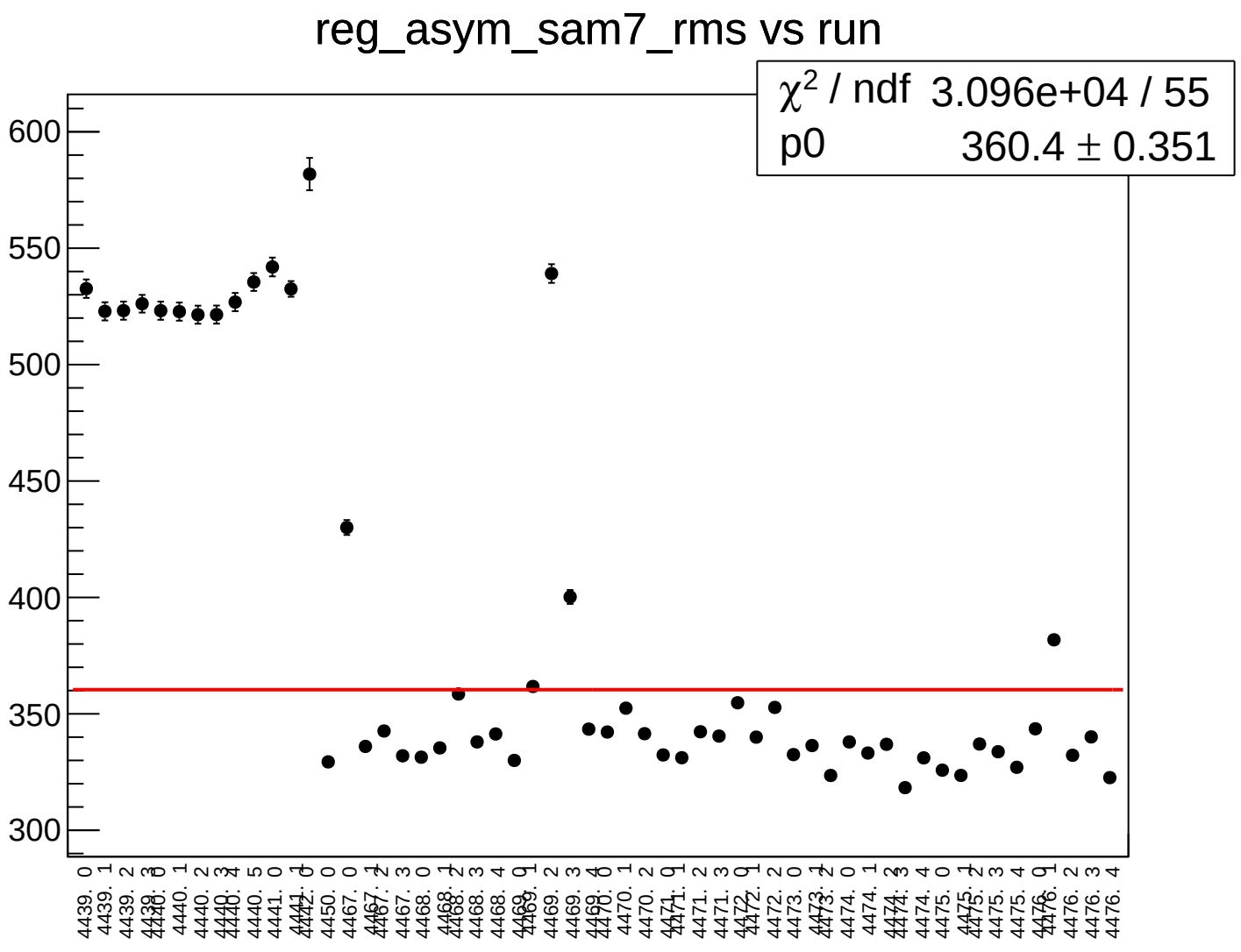

asym_sam6_correction_mean vs run
×10^3
χ² / ndf 60.28 / 55
p0 −3398 ± 2814
150
100
50
0
−50
−100
−150
pull
Entries 56
Mean −29.19
Std Dev 58.25
2
1
0
−1
−2
−3

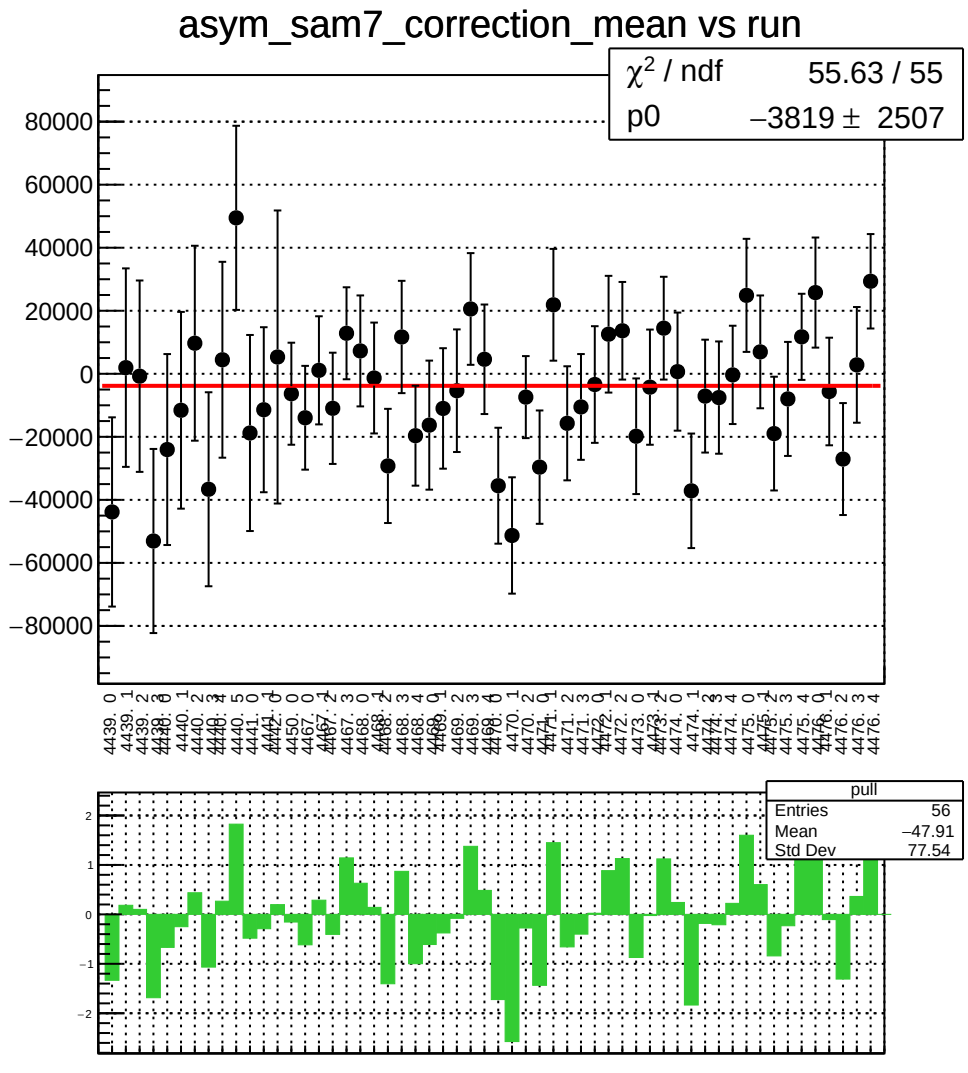

pull1D
Entries 56
Mean −0.05184
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

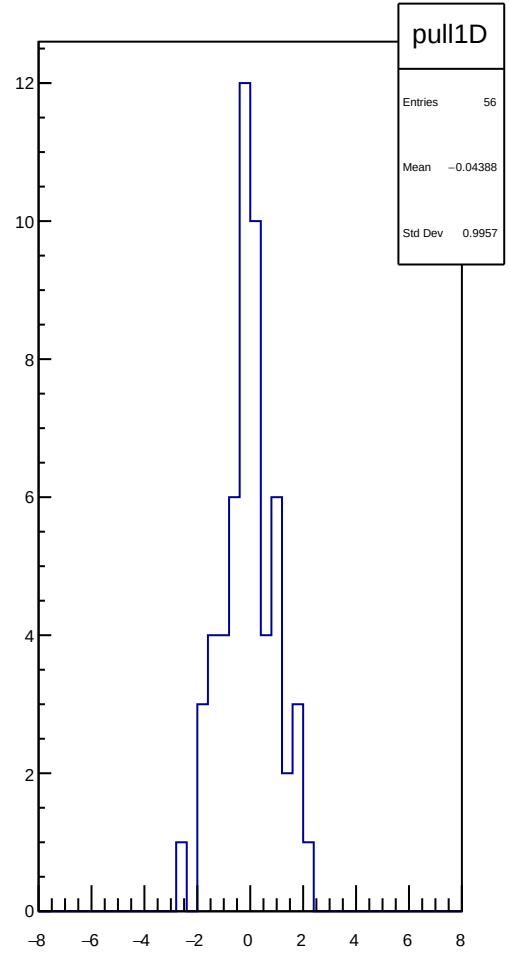

asym_sam6_correction_rms vs run
χ² / ndf 9.392e+04 / 55
p0 1981 ± 1.989
5500
5000
4500
4000
3500
3000
2500
2000
1500

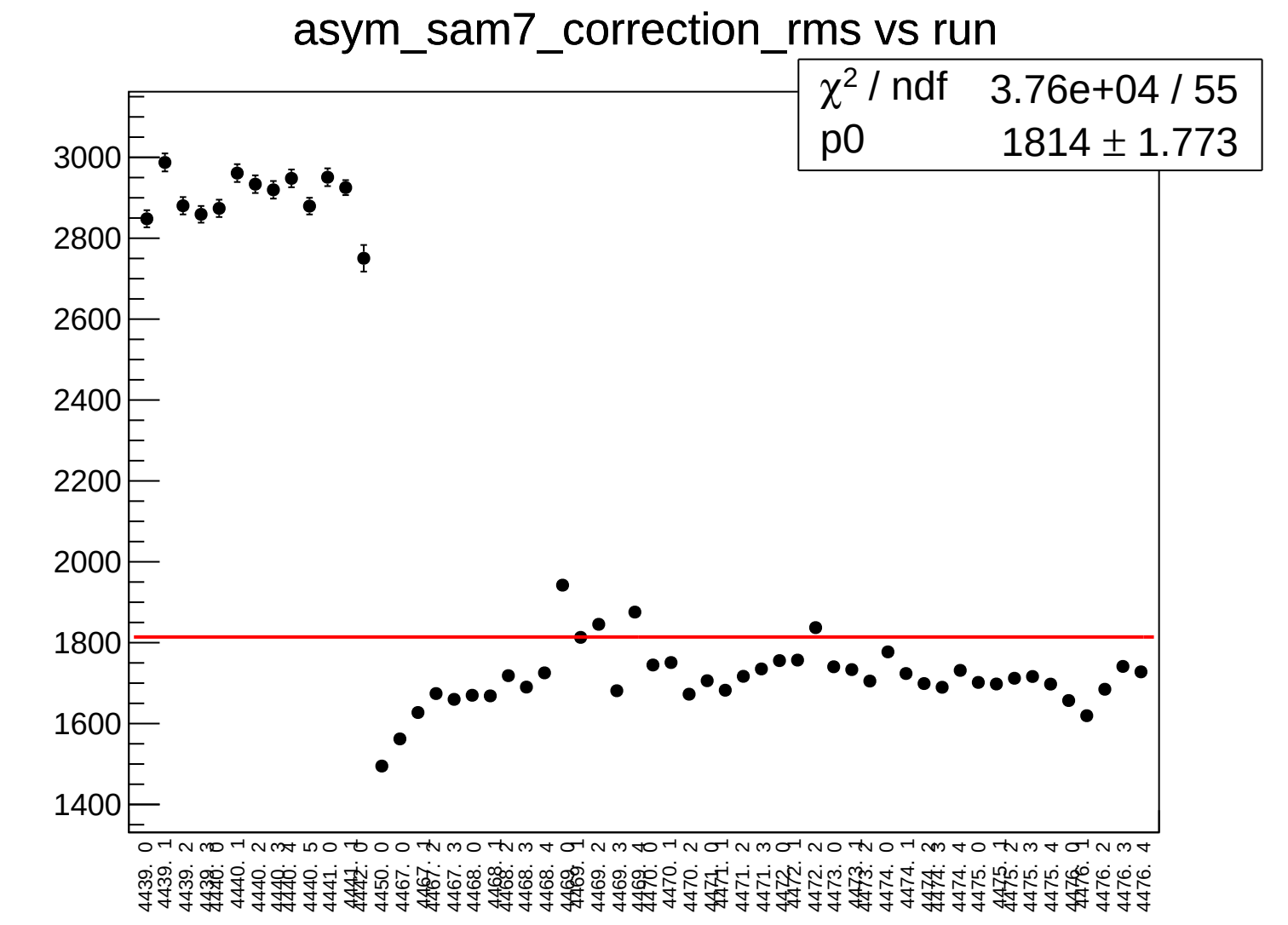

reg_asym_sam7_mean vs run
χ² / ndf 58.8 / 55
p0 432.5 ± 496.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 56
Mean 76.09
Std Dev 28.73
2
1
0
−1
−2
−3

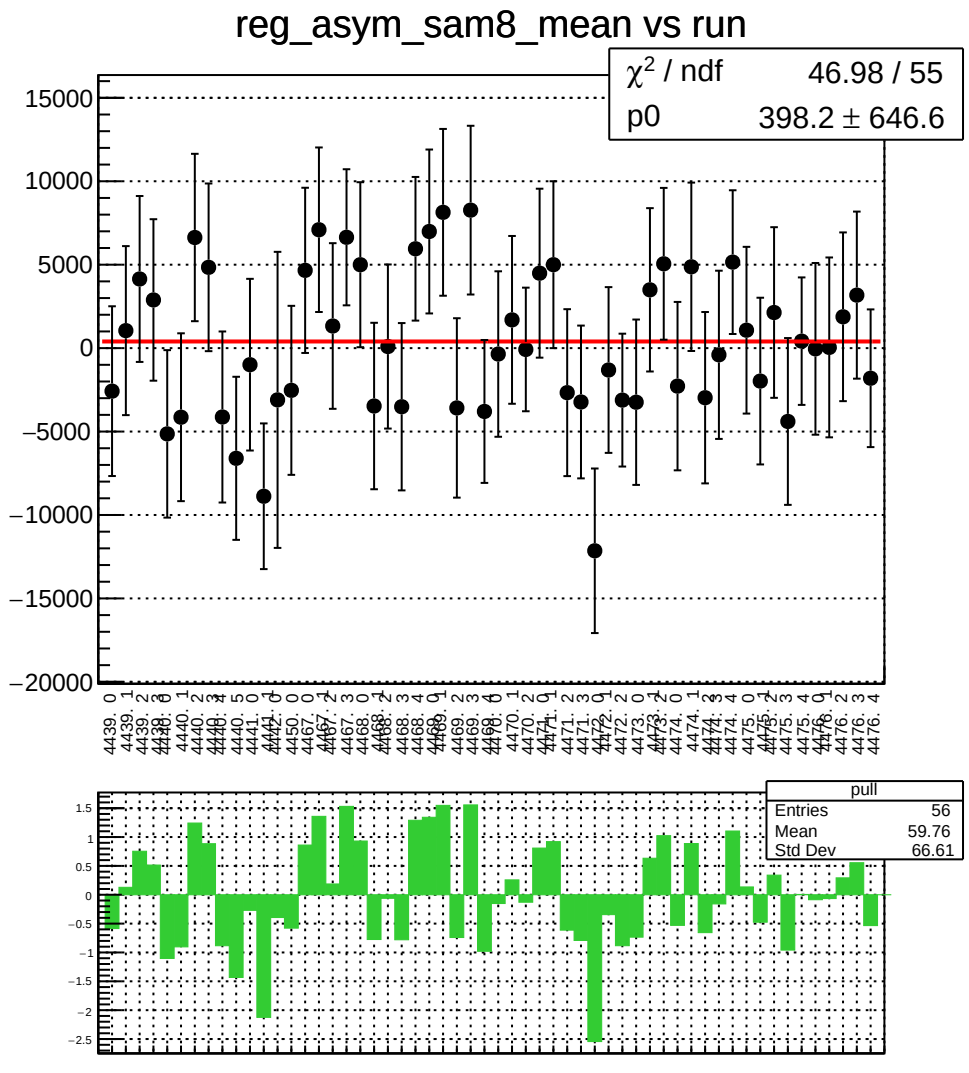

pull1D
Entries 56
Mean −0.01486
Std Dev 1.025
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

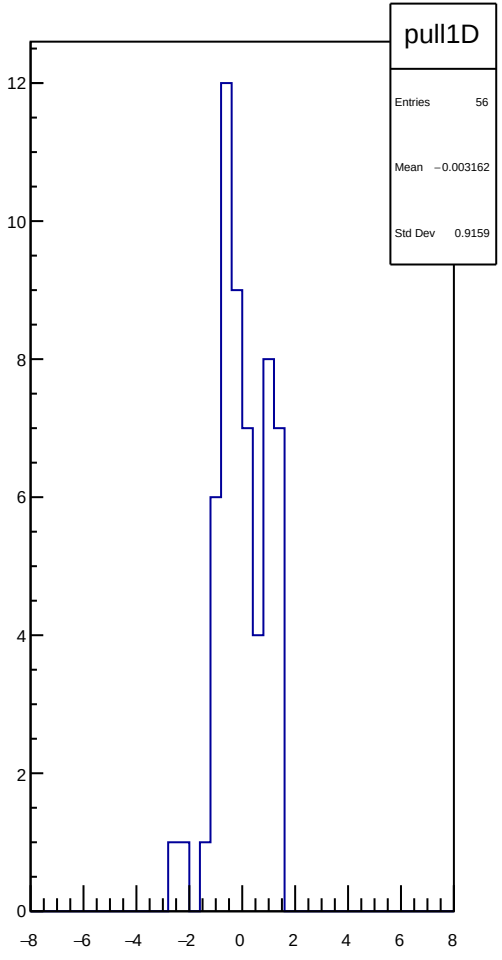

reg_asym_sam7_rms vs run
χ² / ndf 3.096e+04 / 55
p0 360.4 ± 0.351
600
550
500
450
400
350
300

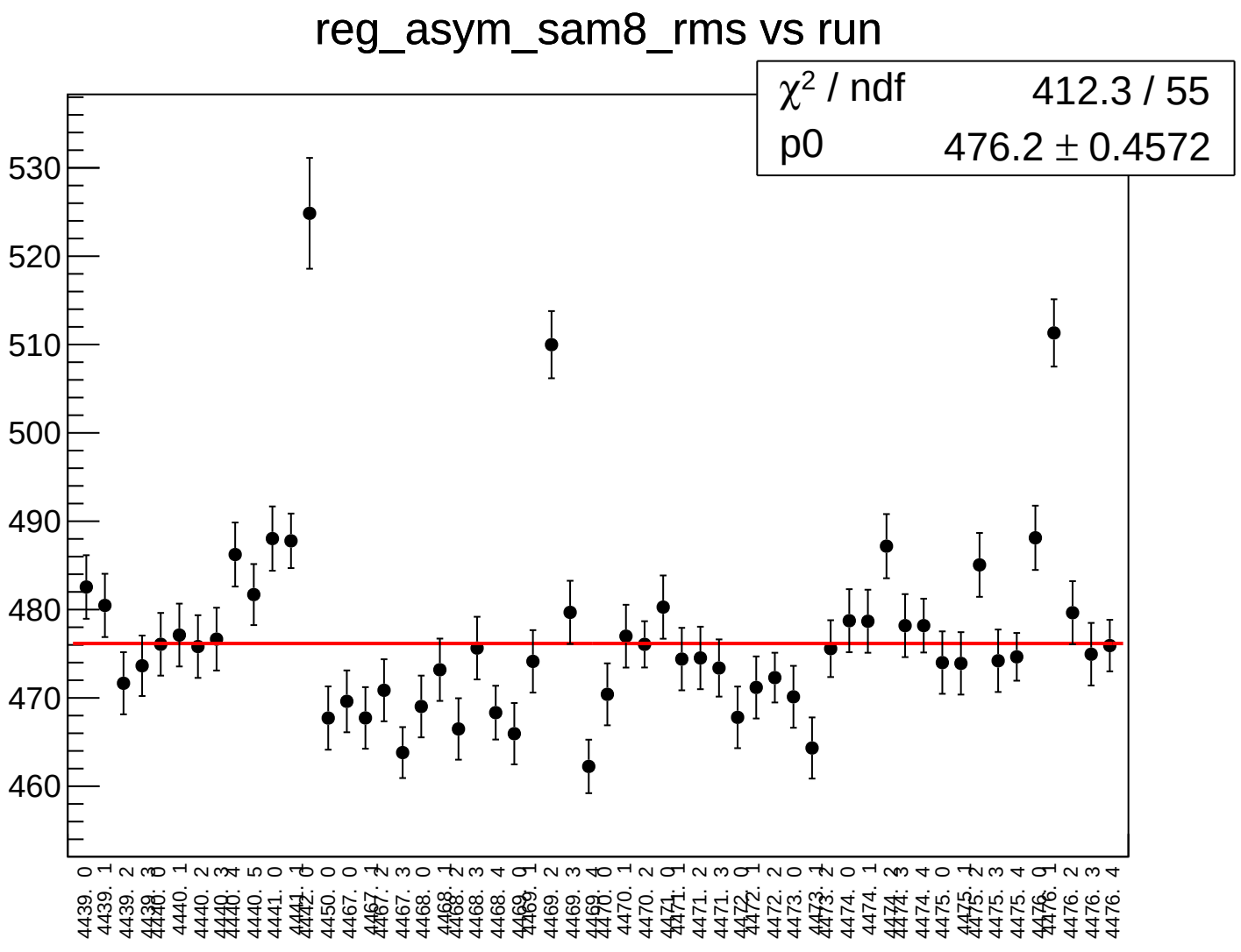

asym_sam7_correction_mean vs run
χ² / ndf 55.63 / 55
p0 −3819 ± 2507
pull
Entries 56
Mean −47.91
Std Dev 77.54

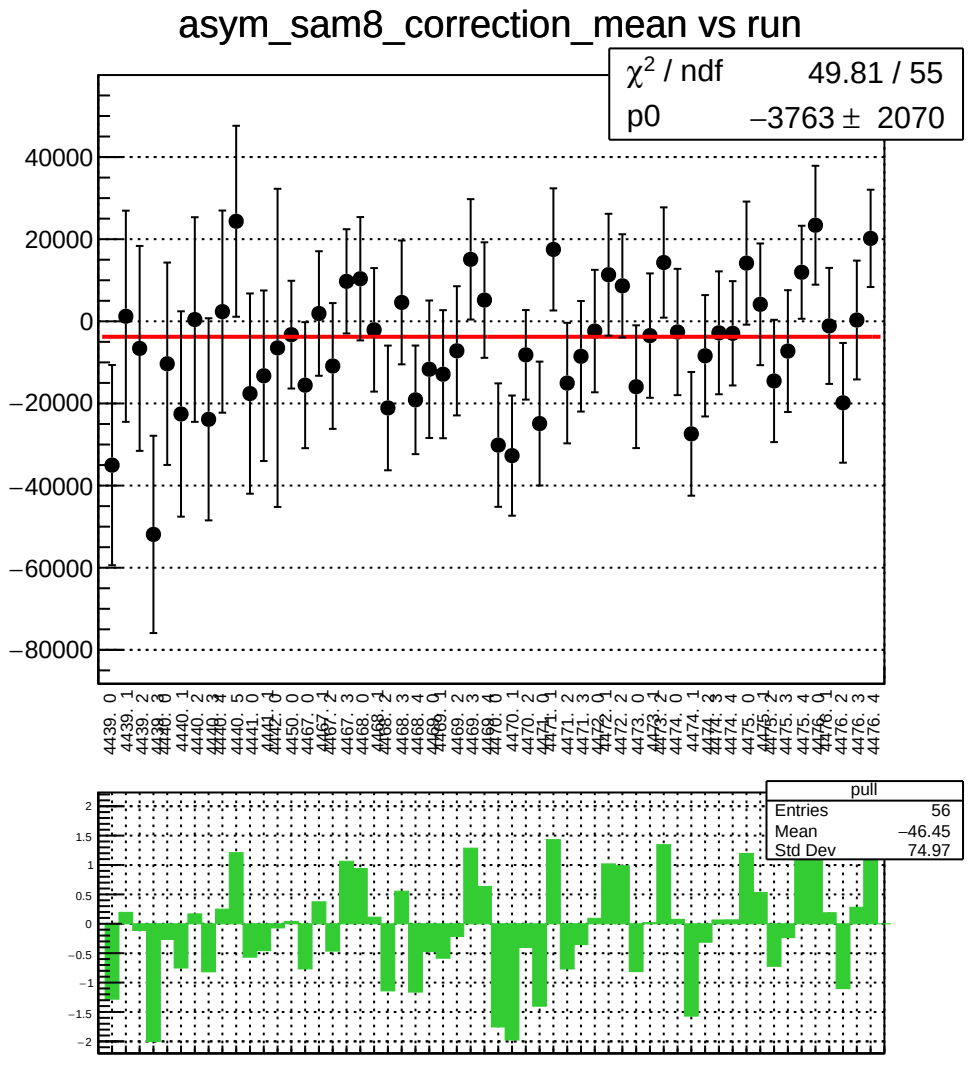

pull1D
Entries 56
Mean −0.04388
Std Dev 0.9957

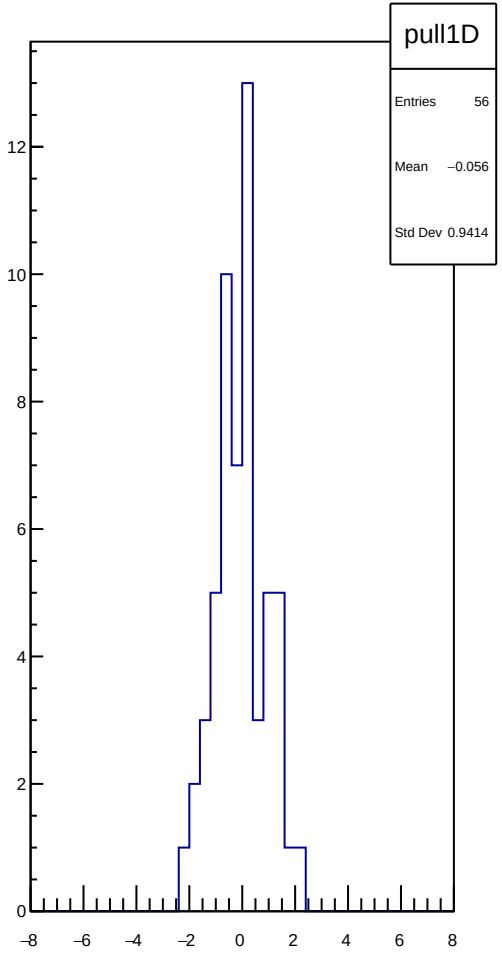

asym_sam7_correction_rms vs run
χ² / ndf 3.76e+04 / 55
p0 1814 ± 1.773
3000
2800
2600
2400
2200
2000
1800
1600
1400

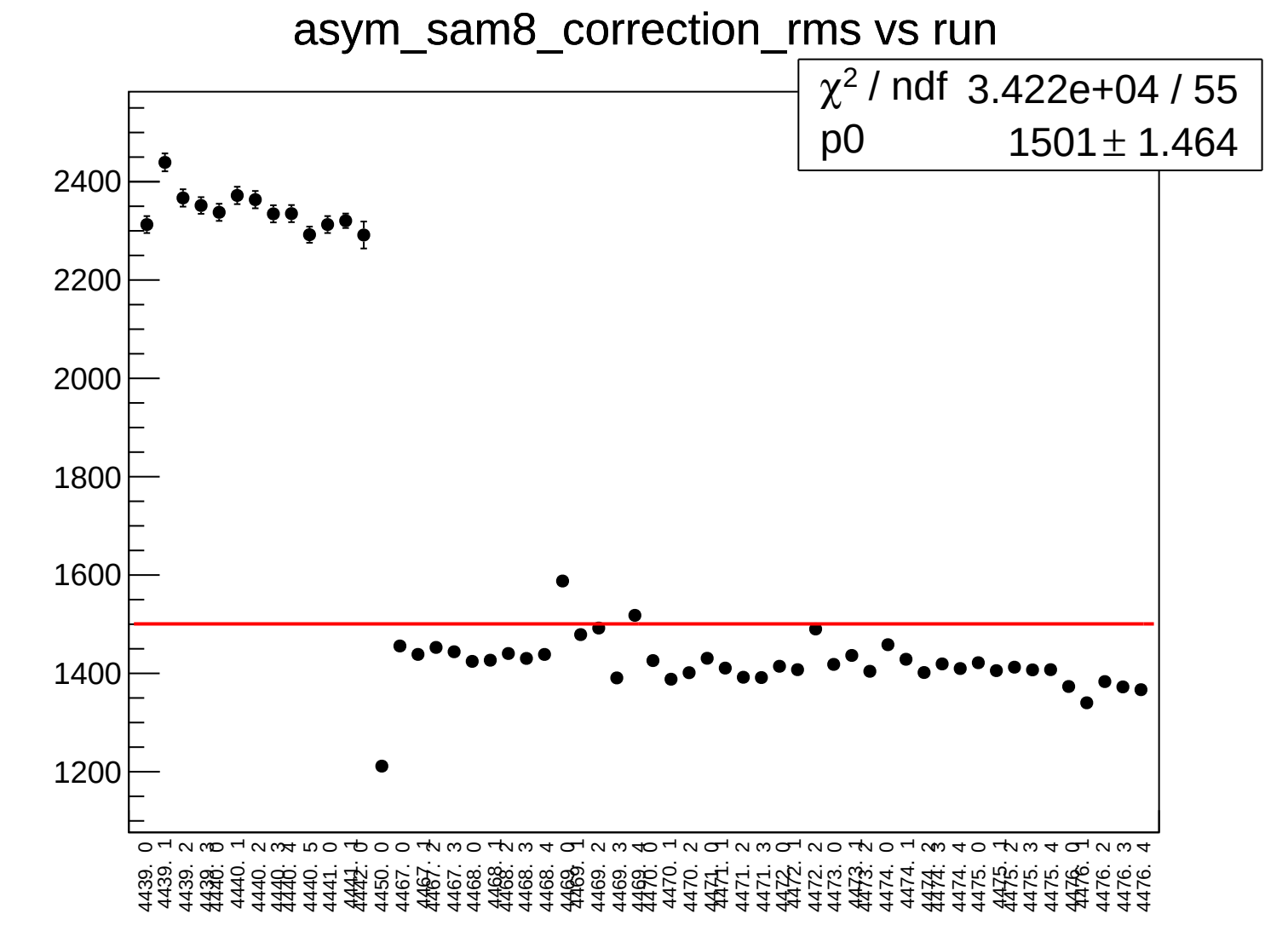

reg_asym_sam8_mean vs run
χ² / ndf 46.98 / 55
p0 398.2 ± 646.6
pull
Entries 56
Mean 59.76
Std Dev 66.61

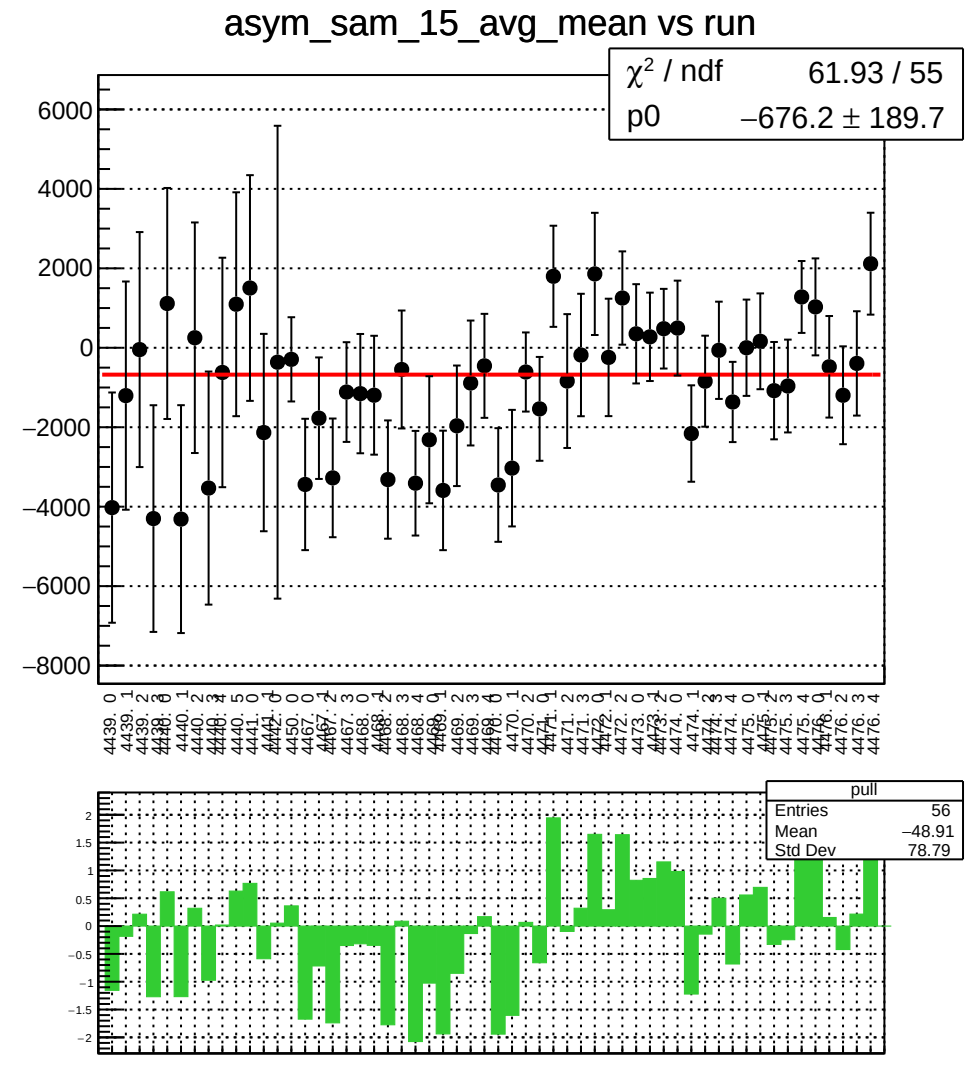

pull1D
Entries 56
Mean −0.003162
Std Dev 0.9159

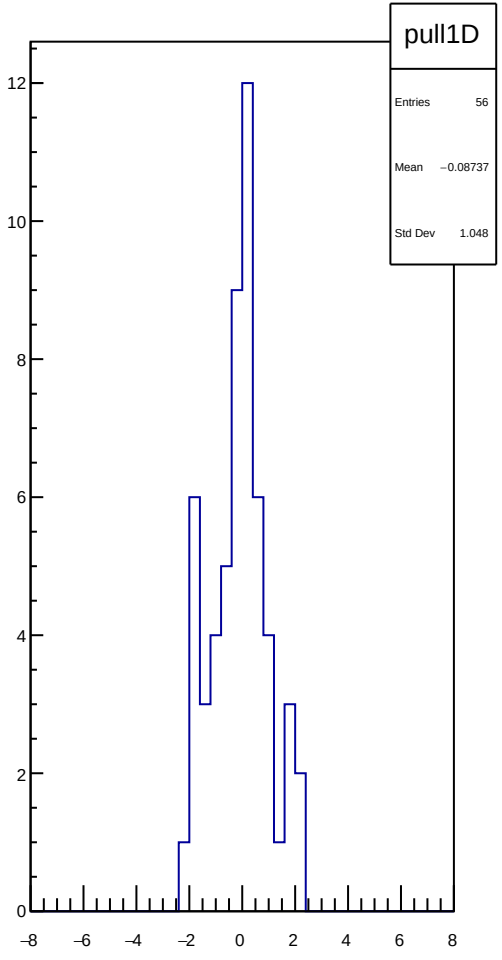

reg_asym_sam8_rms vs run
χ² / ndf 412.3 / 55
p0 476.2 ± 0.4572
530
520
510
500
490
480
470
460

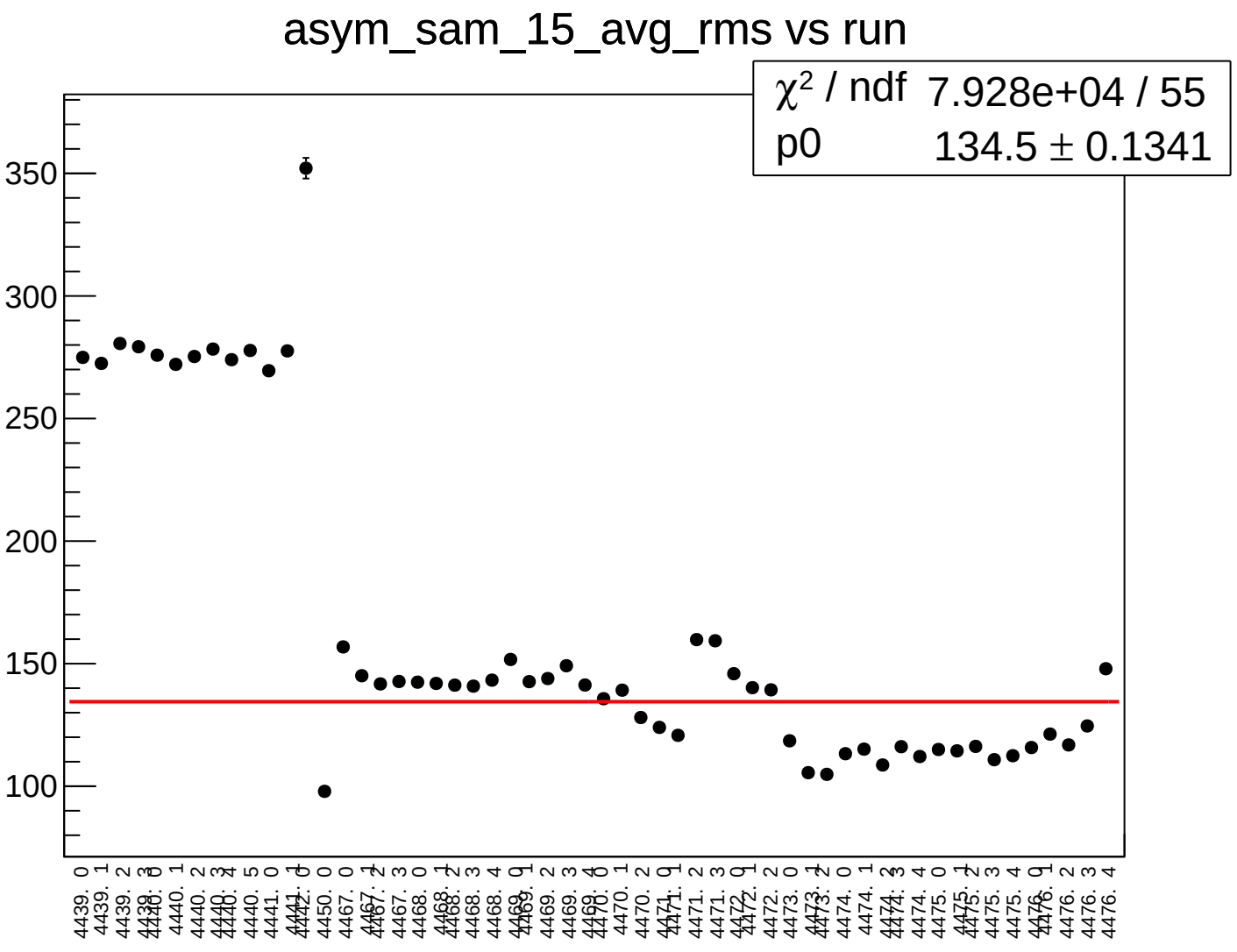

asym_sam8_correction_mean vs run
χ² / ndf 49.81 / 55
p0 −3763 ± 2070
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 56
Mean −46.45
Std Dev 74.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

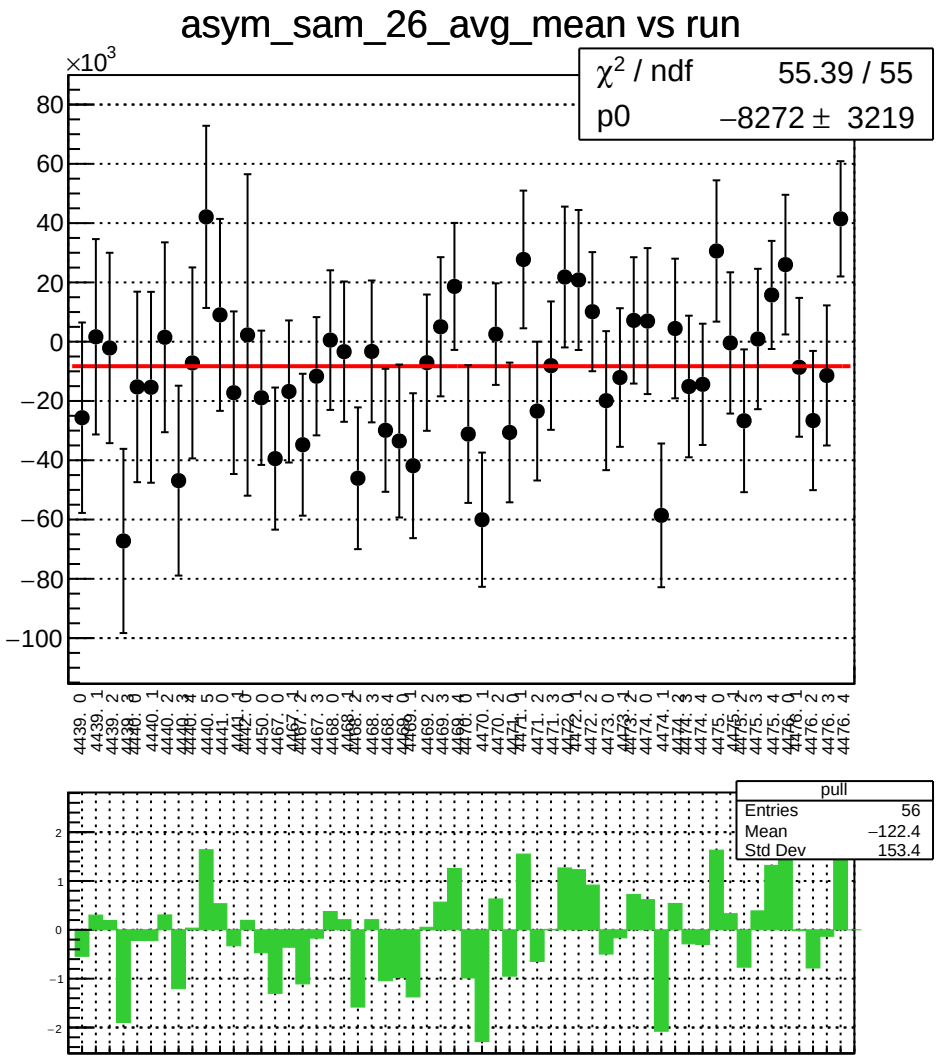

pull1D
Entries 56
Mean −0.056
Std Dev 0.9414
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

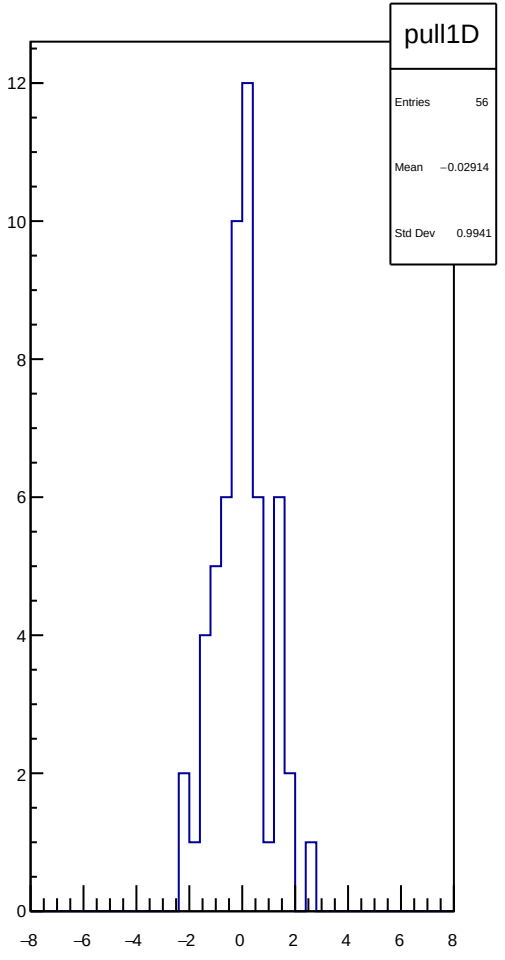

asym_sam8_correction_rms vs run
χ² / ndf 3.422e+04 / 55
p0 1501 ± 1.464
2400
2200
2000
1800
1600
1400
1200
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

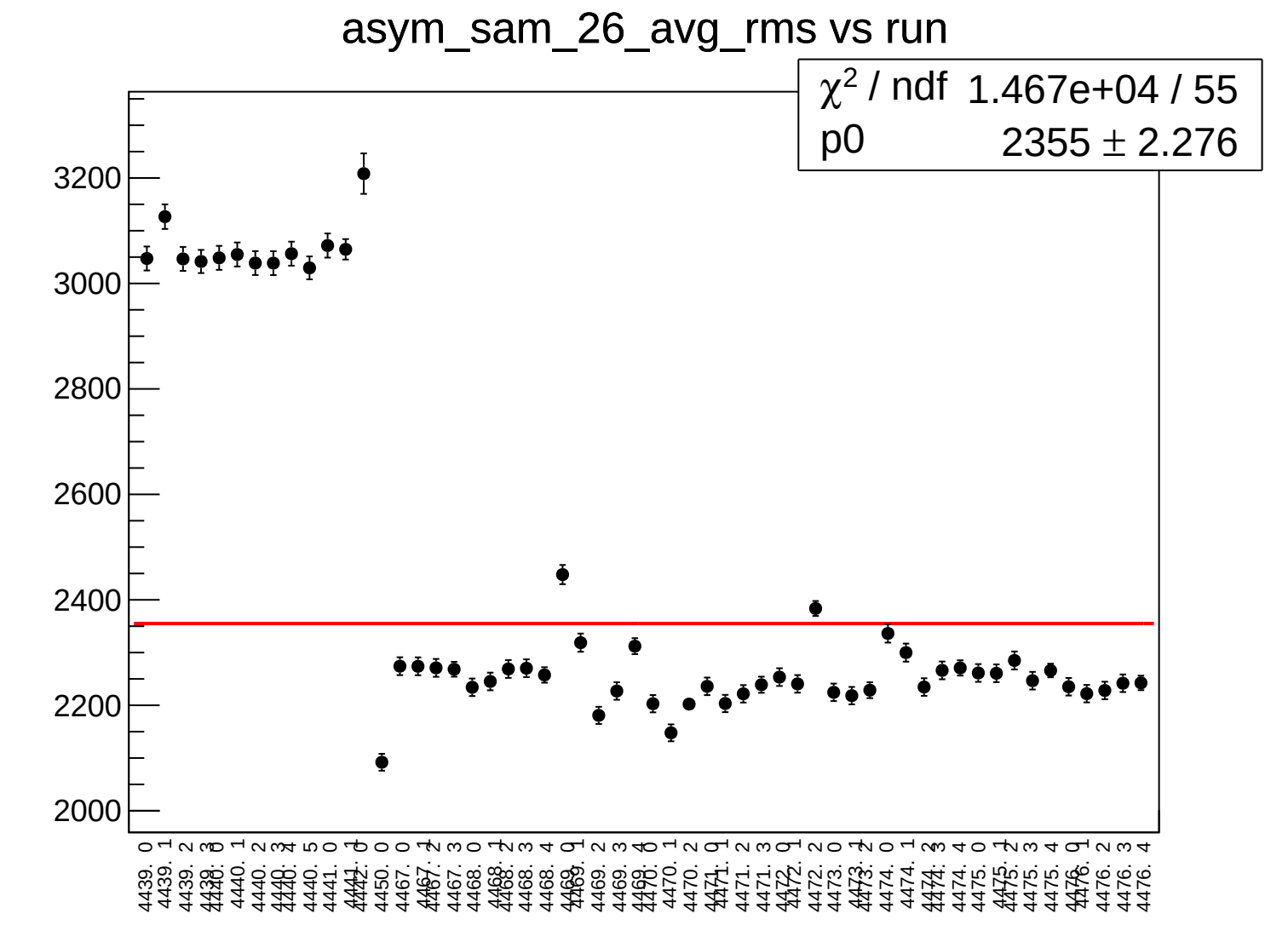

asym_sam_15_avg_mean vs run
χ² / ndf 61.93 / 55
p0 −676.2 ± 189.7
pull
Entries 56
Mean −48.91
Std Dev 78.79

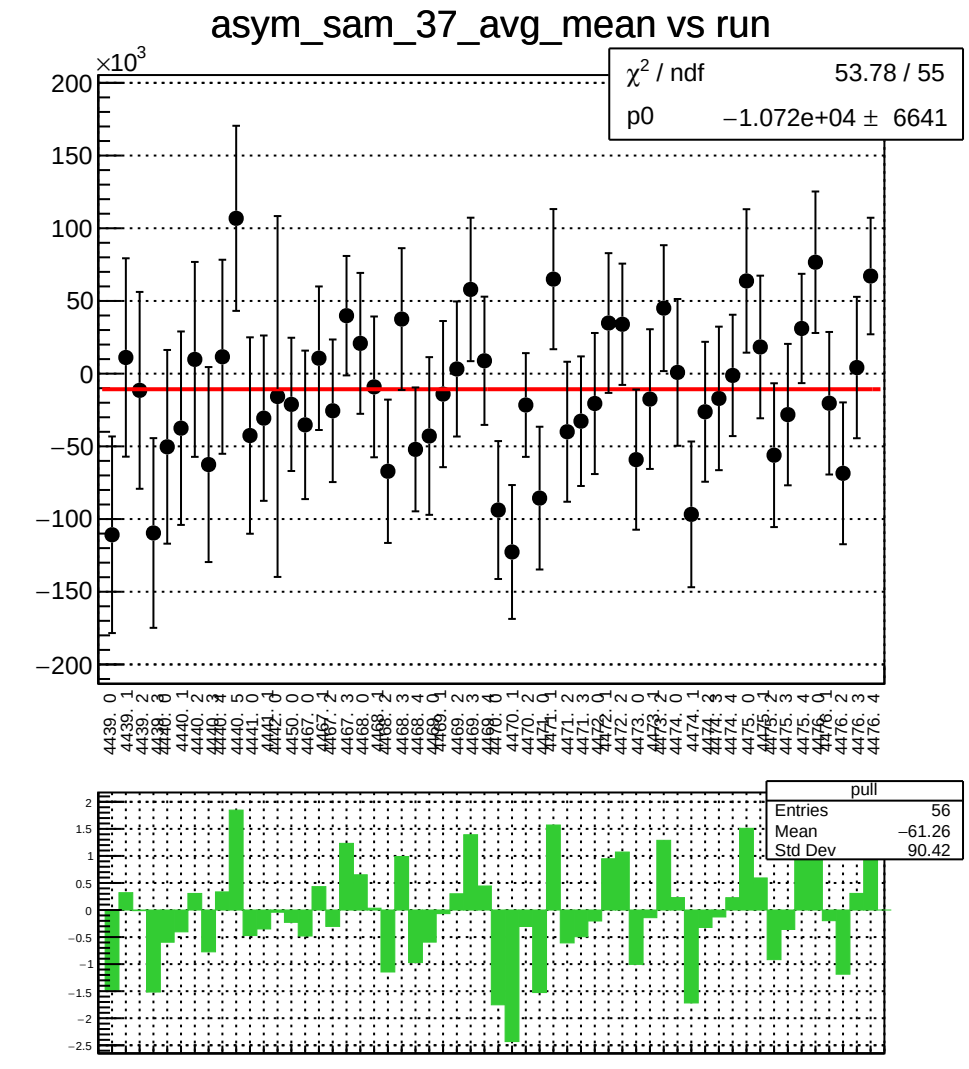

pull1D
Entries 56
Mean −0.08737
Std Dev 1.048

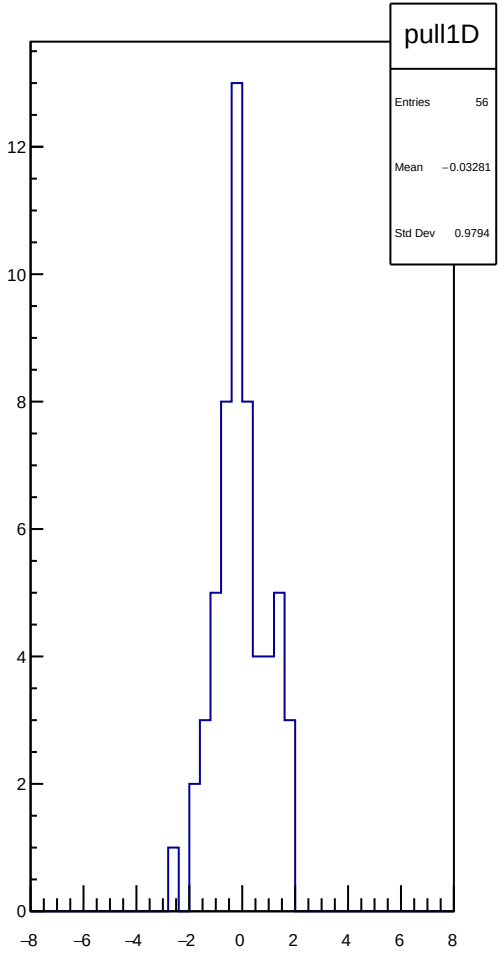

asym_sam_15_avg_rms vs run
χ² / ndf 7.928e+04 / 55
p0 134.5 ± 0.1341
350
300
250
200
150
100

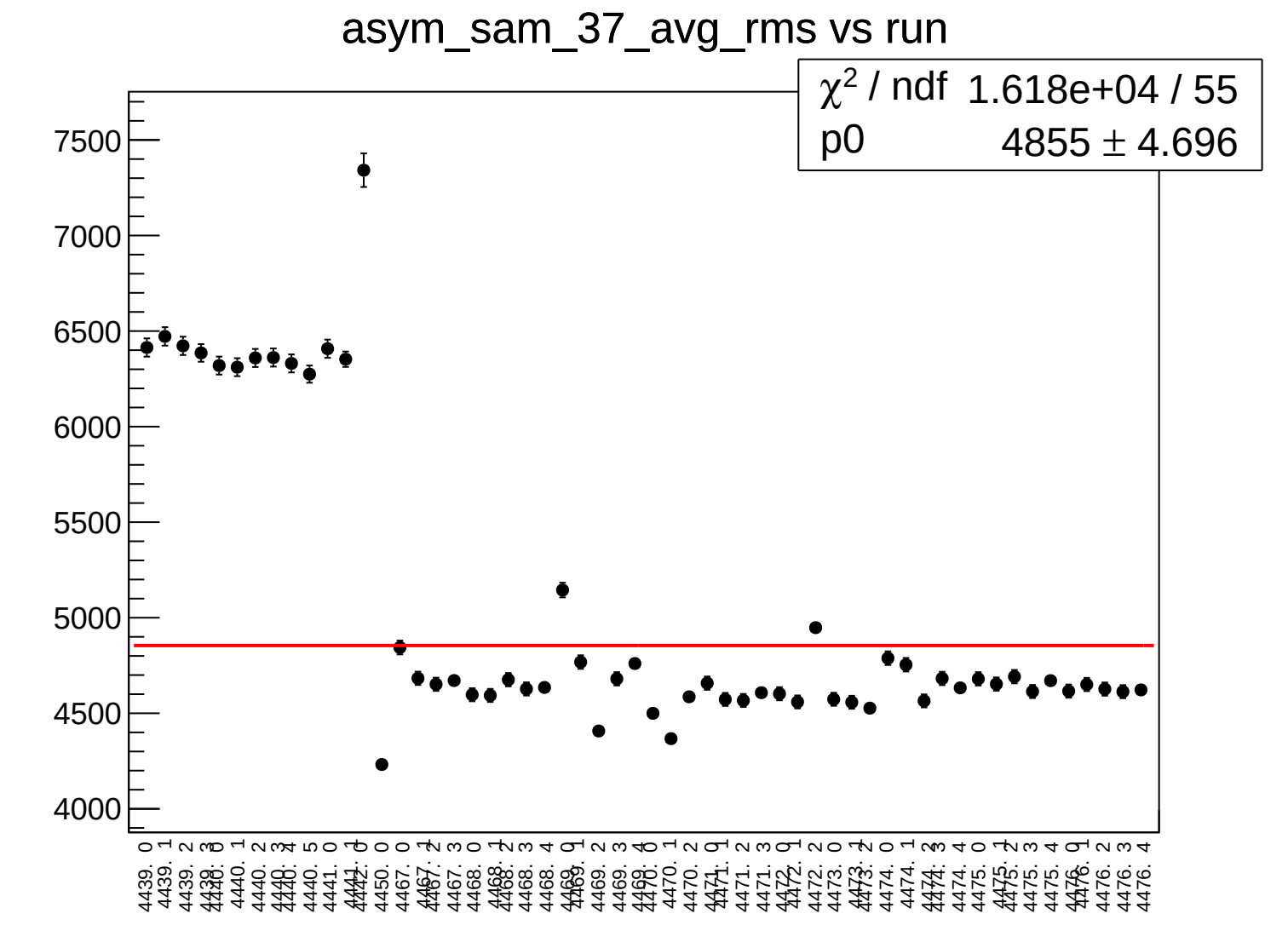

asym_sam_26_avg_mean vs run
×10^3
χ² / ndf 55.39 / 55
p0 −8272 ± 3219
pull
Entries 56
Mean −122.4
Std Dev 153.4

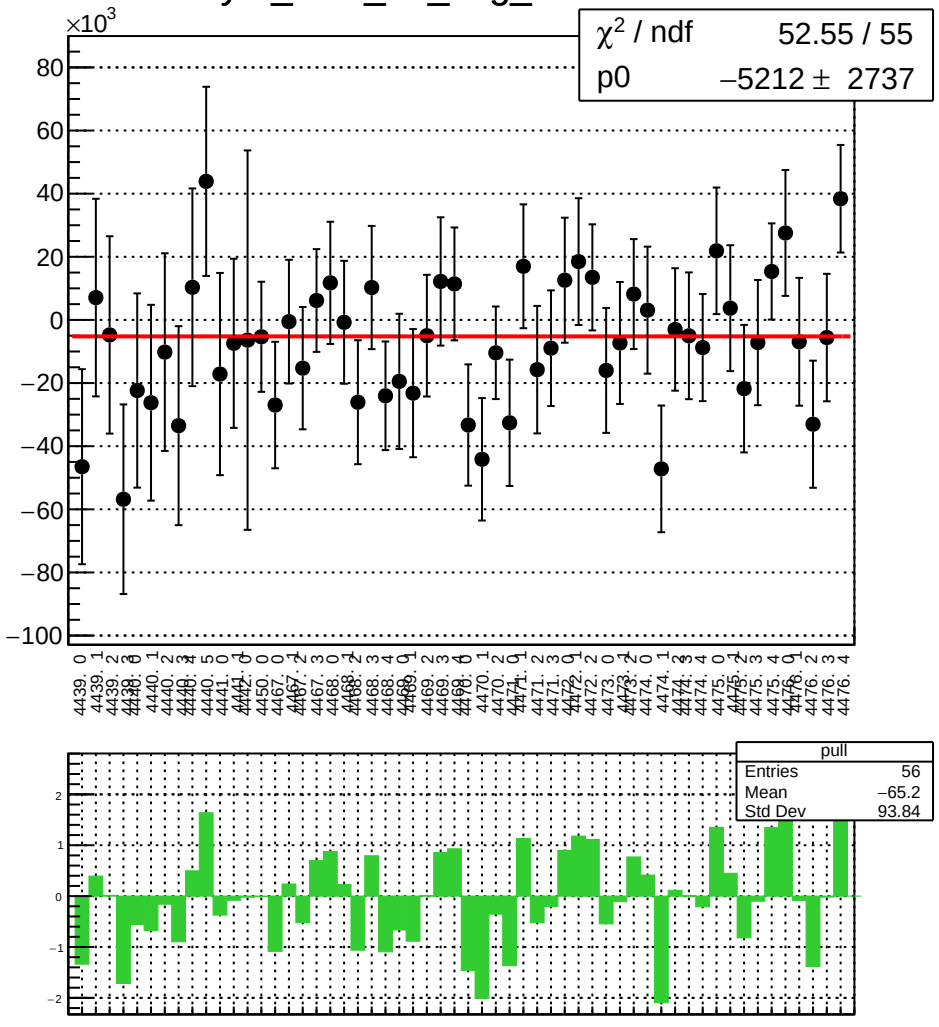

pull1D
Entries 56
Mean −0.02914
Std Dev 0.9941

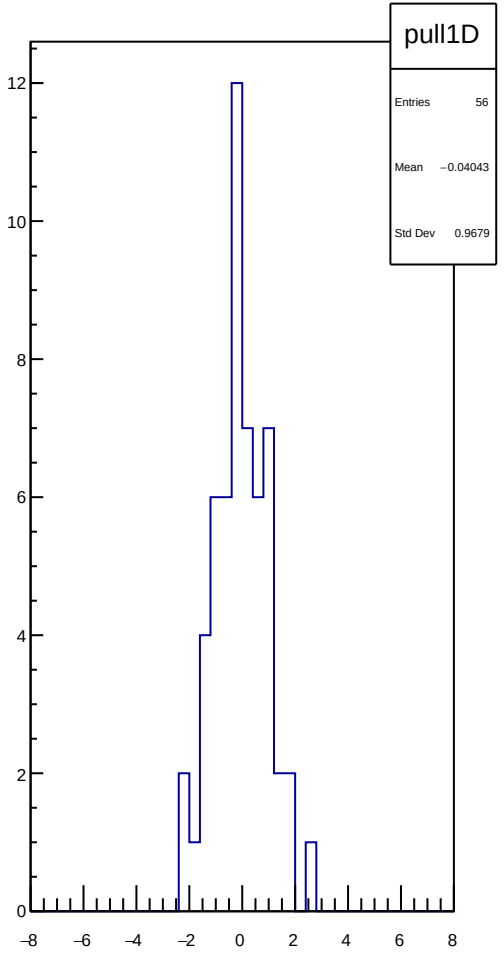

asym_sam_26_avg_rms vs run
χ² / ndf 1.467e+04 / 55
p0 2355 ± 2.276
3200
3000
2800
2600
2400
2200
2000

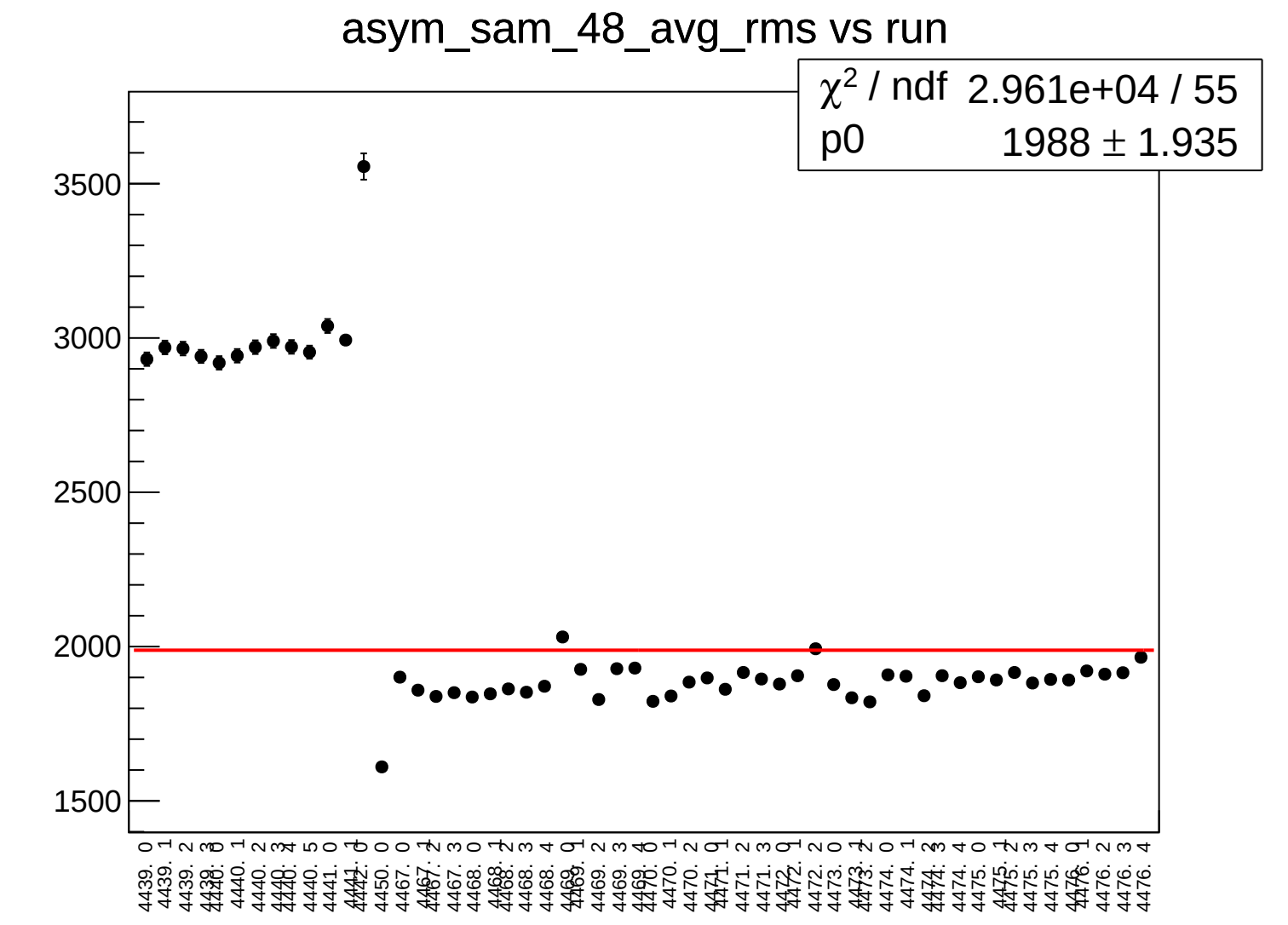

asym_sam_37_avg_mean vs run
×10^3
χ² / ndf 53.78 / 55
p0 −1.072e+04 ± 6641
pull
Entries 56
Mean −61.26
Std Dev 90.42

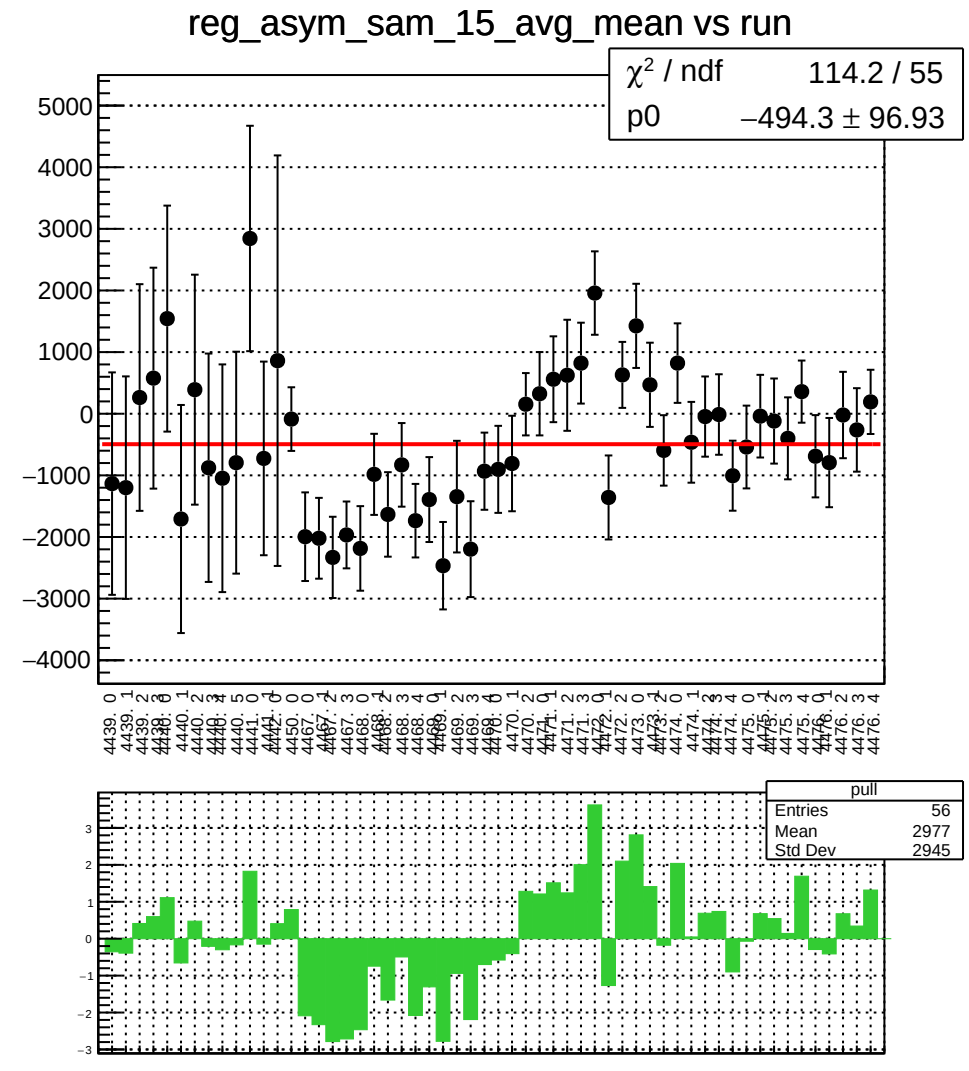

pull1D
Entries 56
Mean −0.03281
Std Dev 0.9794

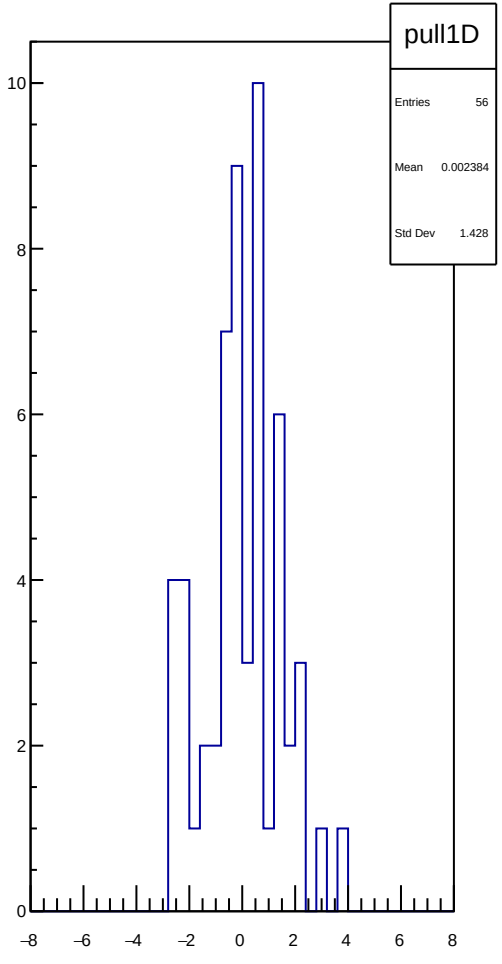

asym_sam_37_avg_rms vs run
χ² / ndf 1.618e+04 / 55
p0 4855 ± 4.696
7500
7000
6500
6000
5500
5000
4500
4000

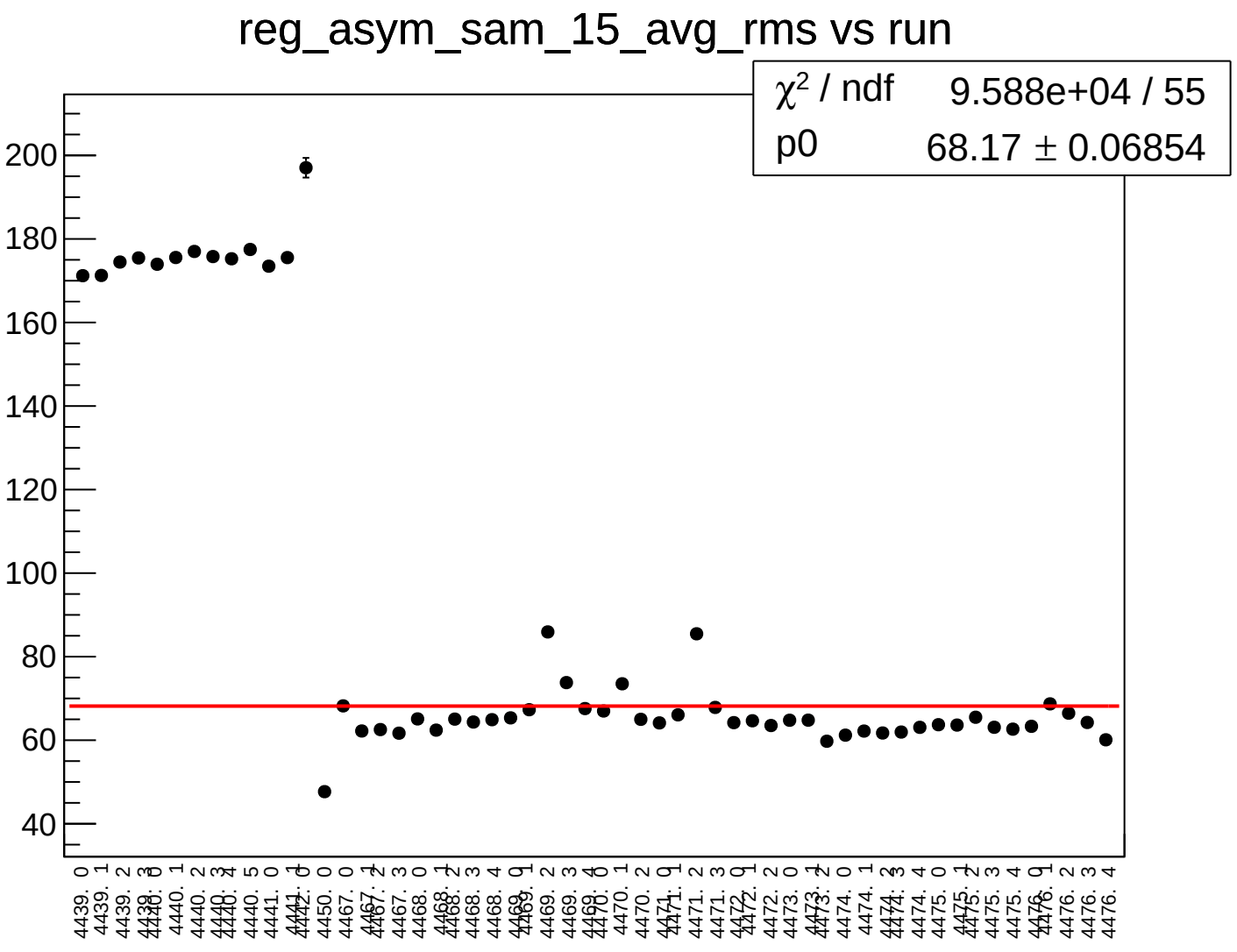

asym_sam_48_avg_mean vs run
χ² / ndf 52.55 / 55
p0 −5212 ± 2737
×10³
pull
Entries 56
Mean −65.2
Std Dev 93.84

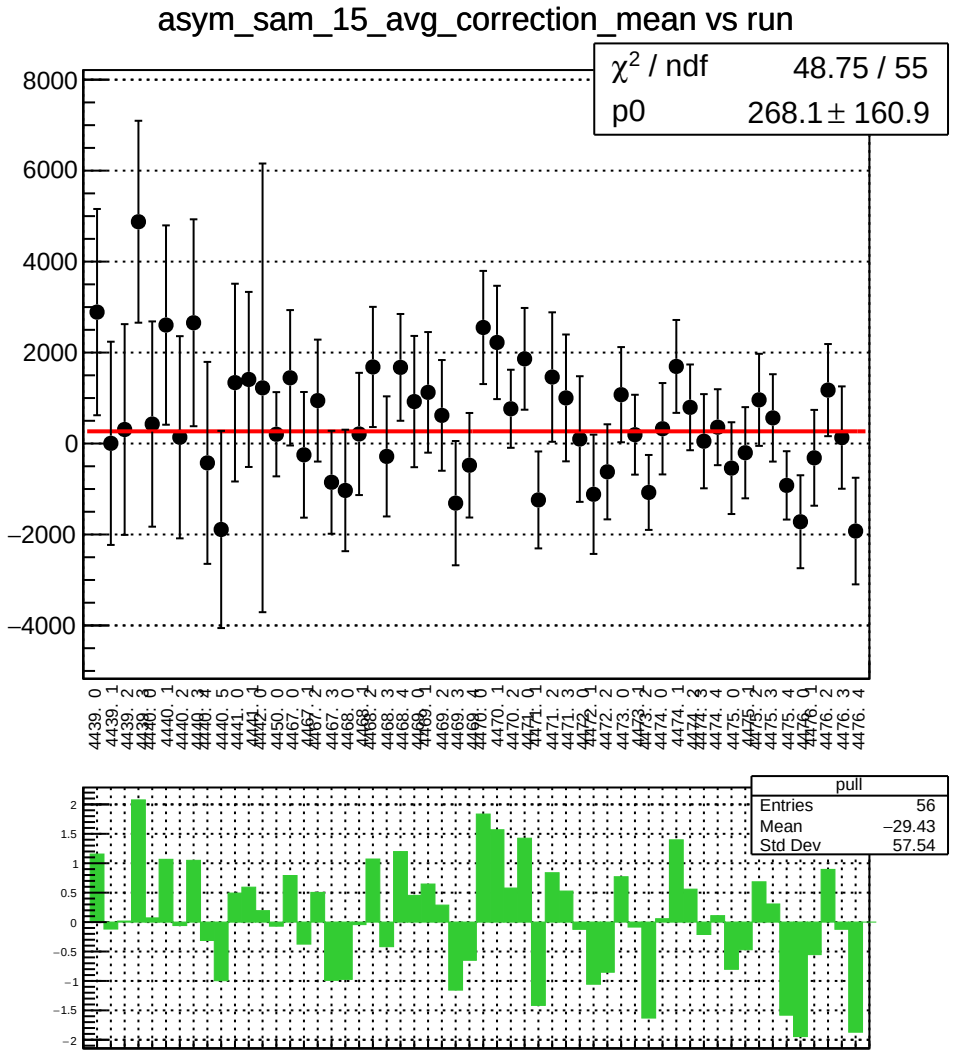

pull1D
Entries 56
Mean −0.04043
Std Dev 0.9679

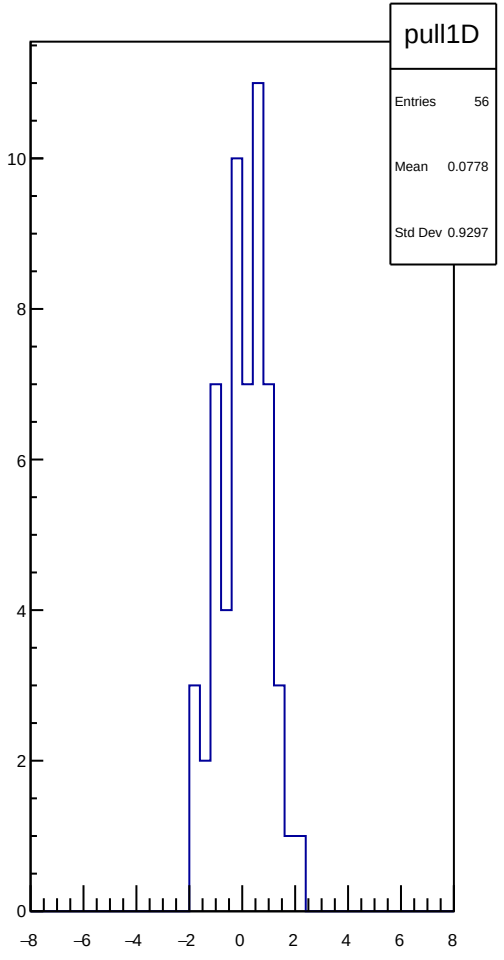

asym_sam_48_avg_rms vs run
χ² / ndf 2.961e+04 / 55
p0 1988 ± 1.935
3500
3000
2500
2000
1500

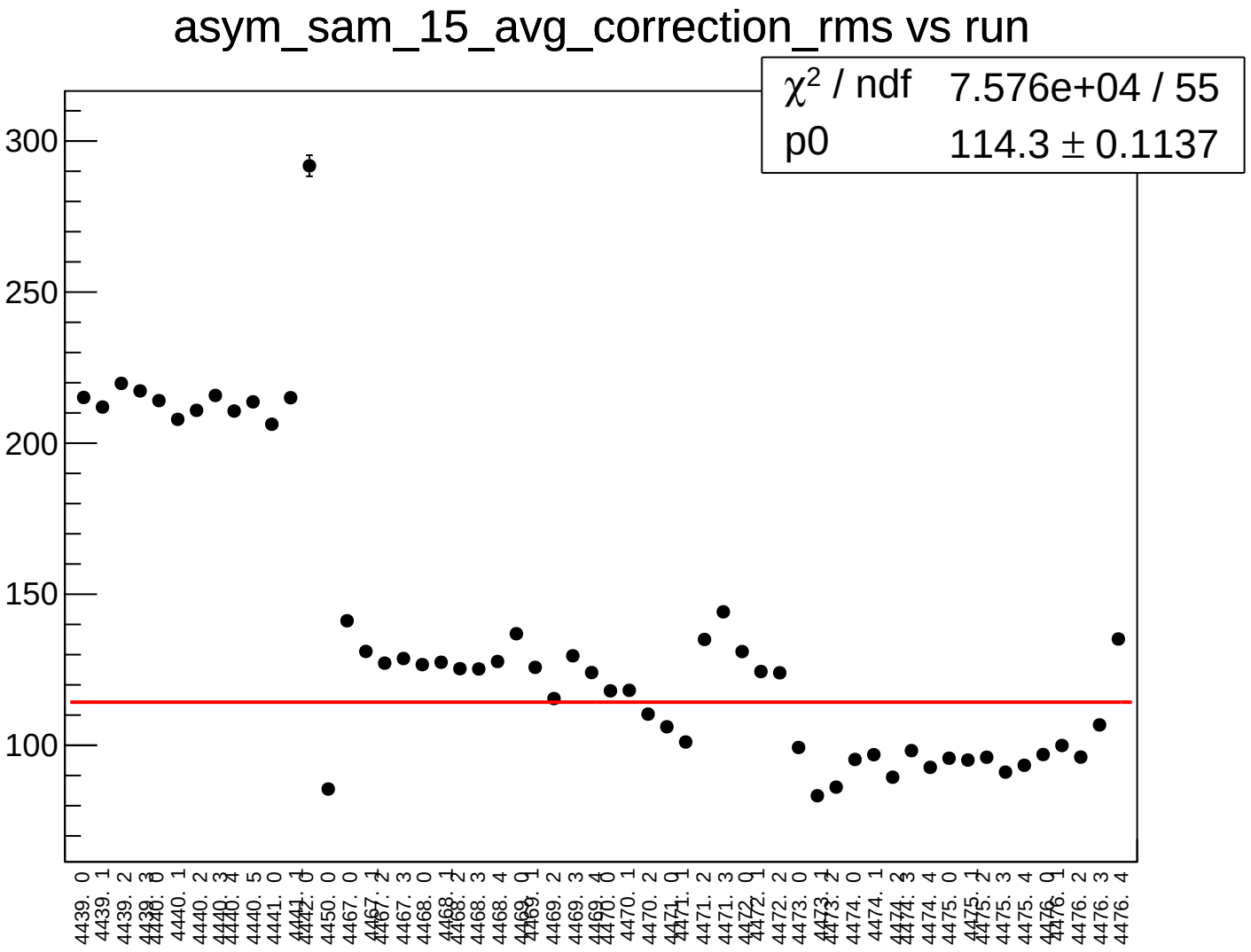

reg_asym_sam_15_avg_mean vs run
χ² / ndf 114.2 / 55
p0 −494.3 ± 96.93
pull
Entries 56
Mean 2977
Std Dev 2945

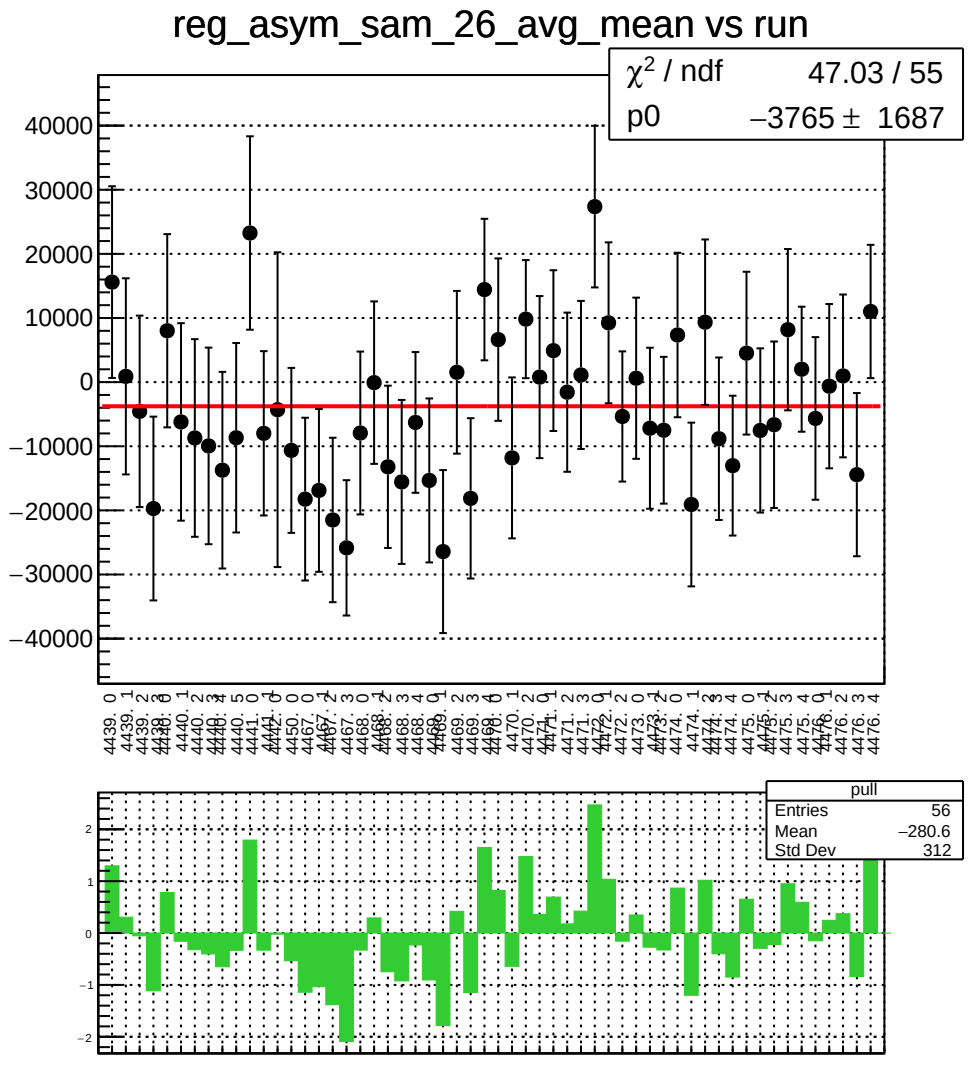

pull1D
Entries 56
Mean 0.002384
Std Dev 1.428

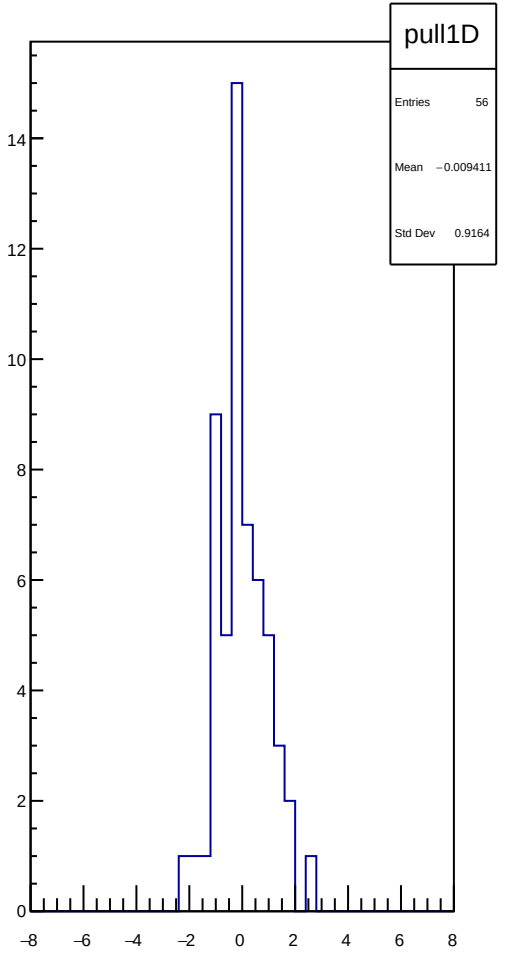

reg_asym_sam_15_avg_rms vs run
χ² / ndf 9.588e+04 / 55
p0 68.17 ± 0.06854
200
180
160
140
120
100
80
60
40

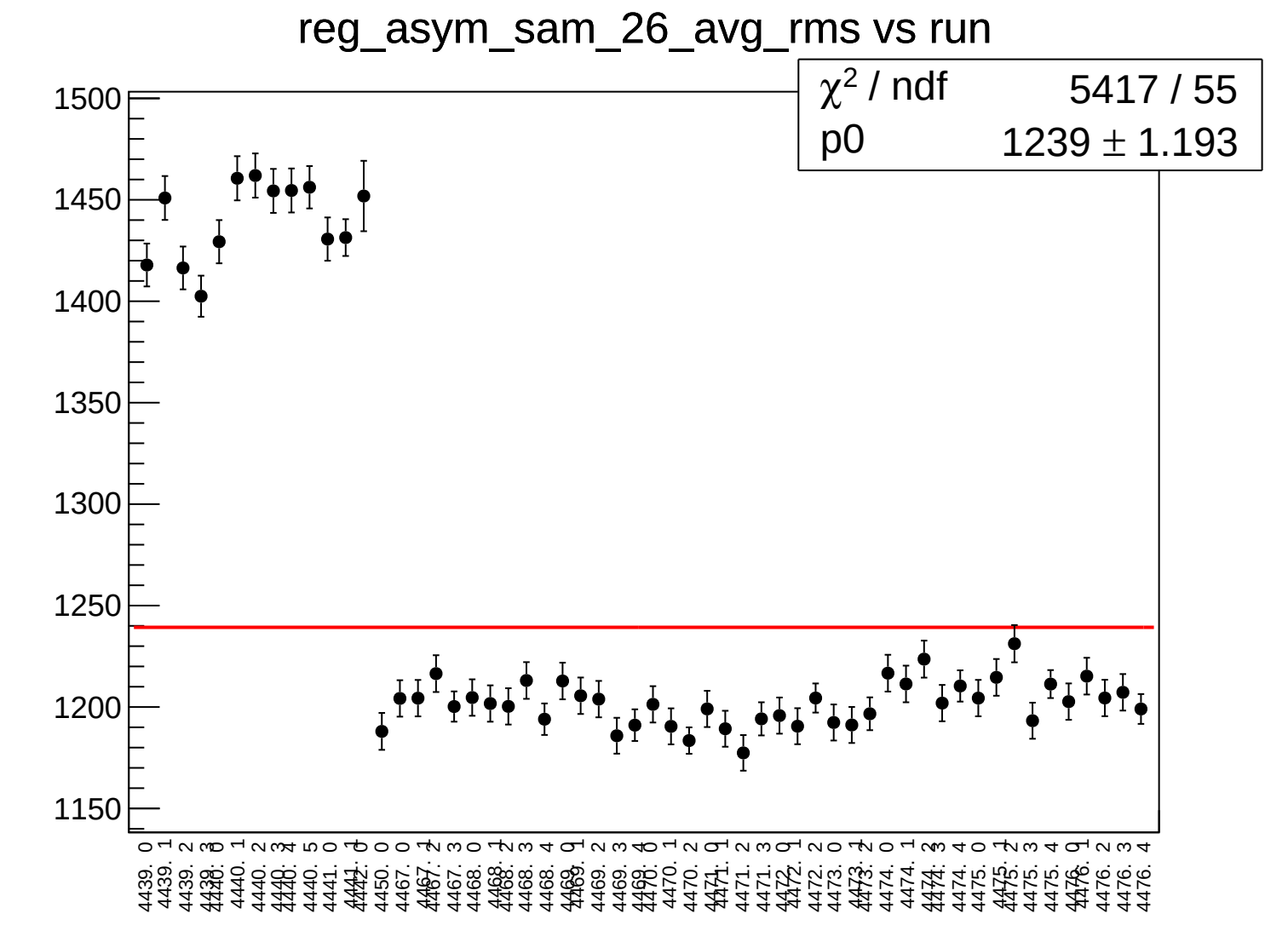

asym_sam_15_avg_correction_mean vs run
χ² / ndf 48.75 / 55
p0 268.1 ± 160.9
pull
Entries 56
Mean −29.43
Std Dev 57.54

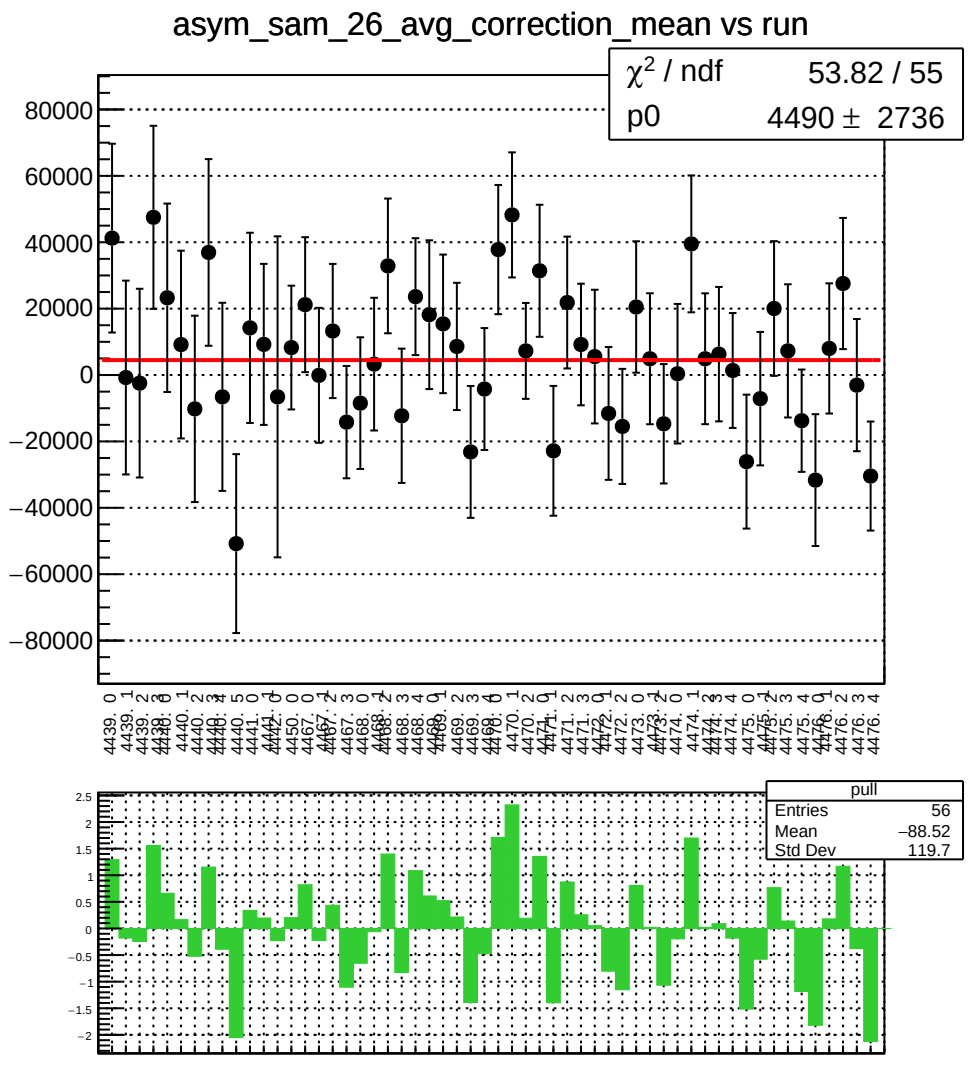

pull1D
Entries 56
Mean 0.0778
Std Dev 0.9297

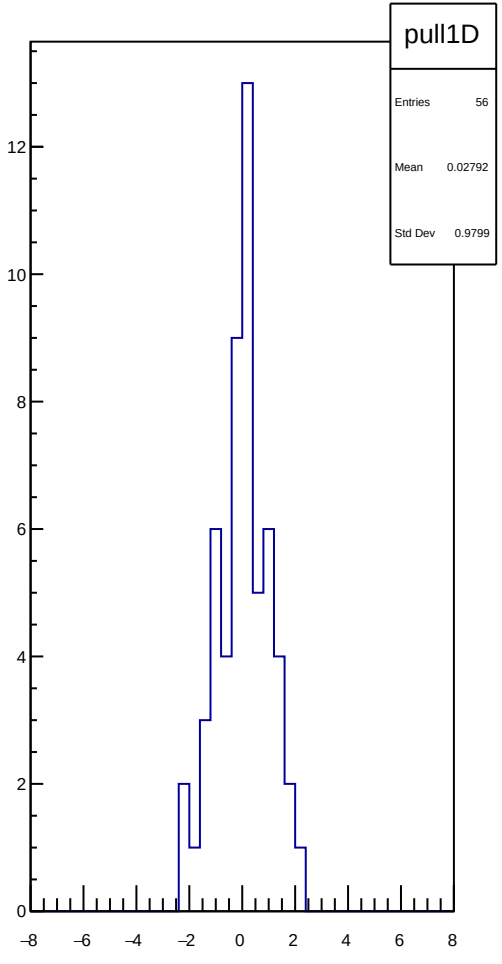

asym_sam_15_avg_correction_rms vs run
χ² / ndf 7.576e+04 / 55
p0 114.3 ± 0.1137
300
250
200
150
100

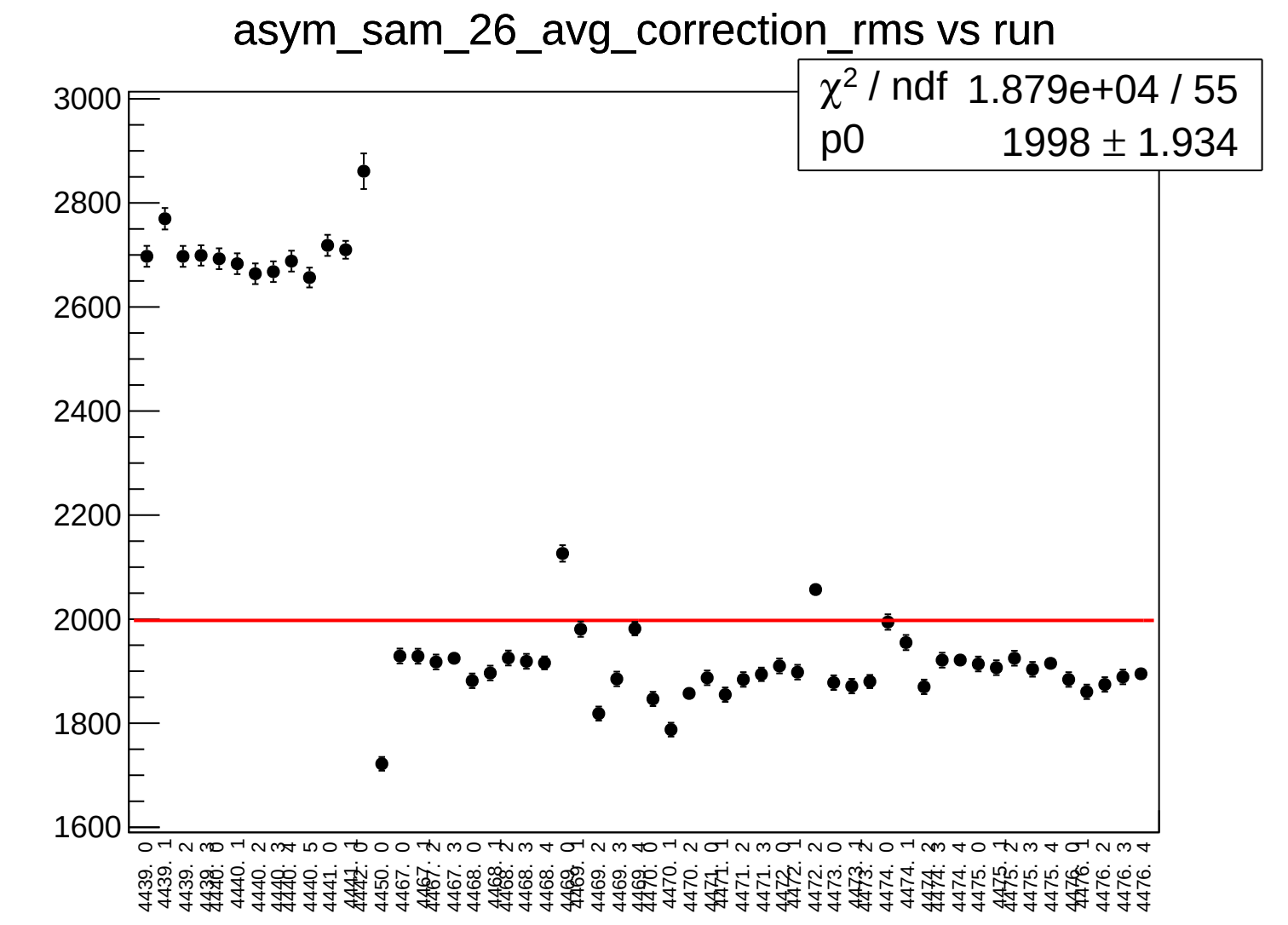

reg_asym_sam_26_avg_mean vs run
χ² / ndf 47.03 / 55
p0 −3765 ± 1687
pull
Entries 56
Mean −280.6
Std Dev 312

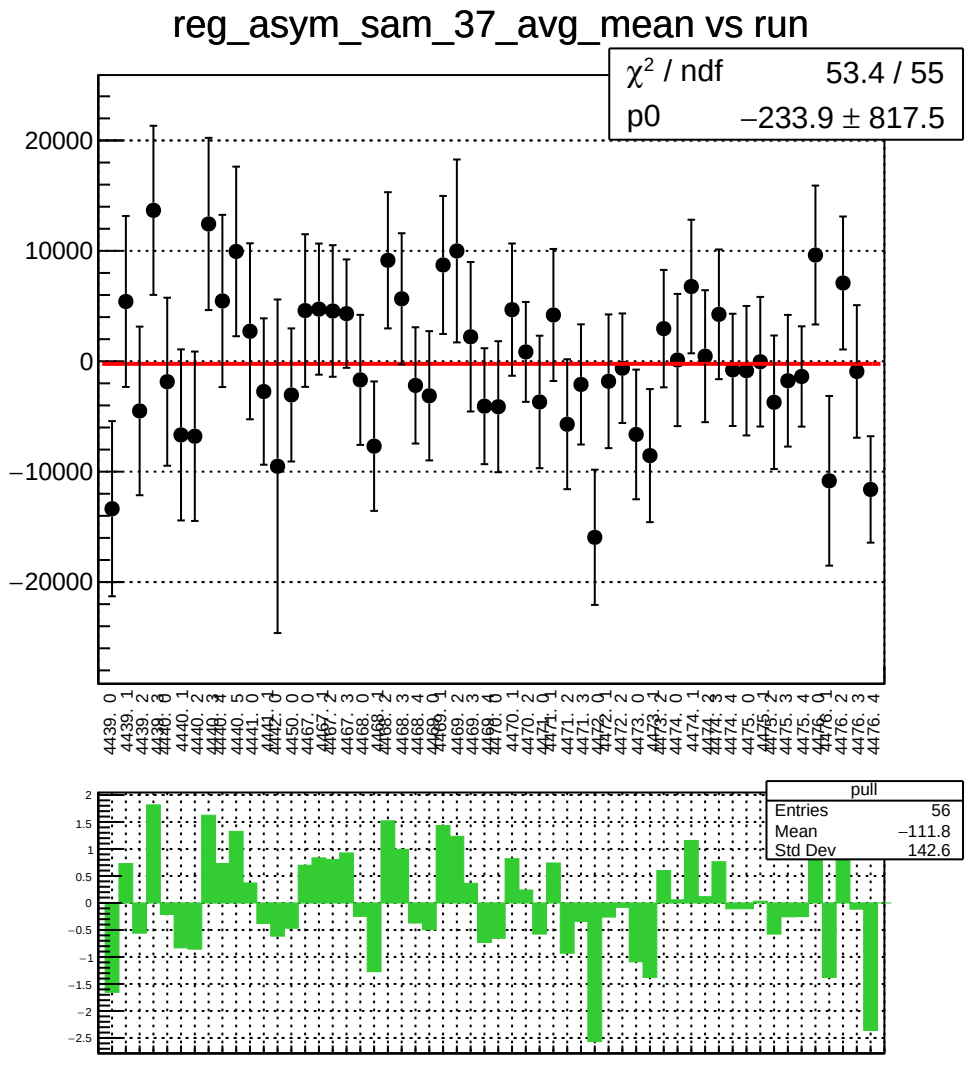

pull1D
Entries 56
Mean −0.009411
Std Dev 0.9164

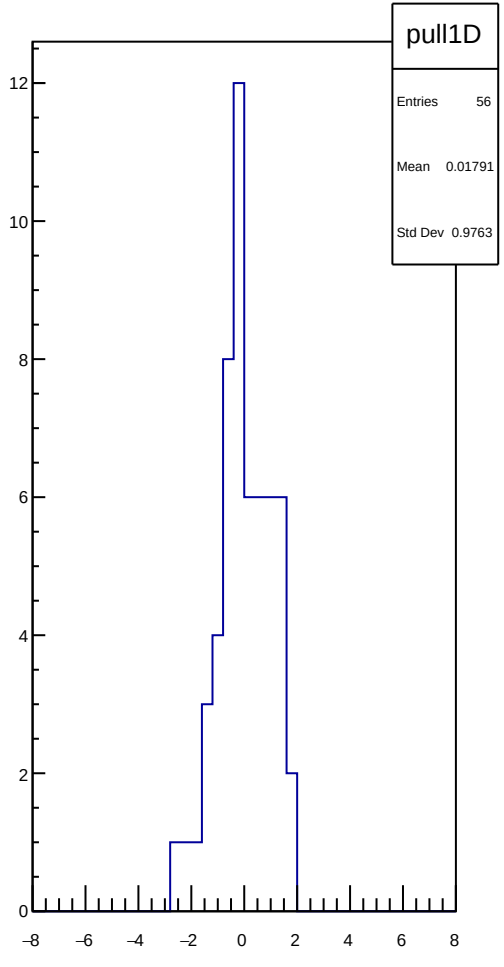

reg_asym_sam_26_avg_rms vs run
χ² / ndf 5417 / 55
p0 1239 ± 1.193
1500
1450
1400
1350
1300
1250
1200
1150

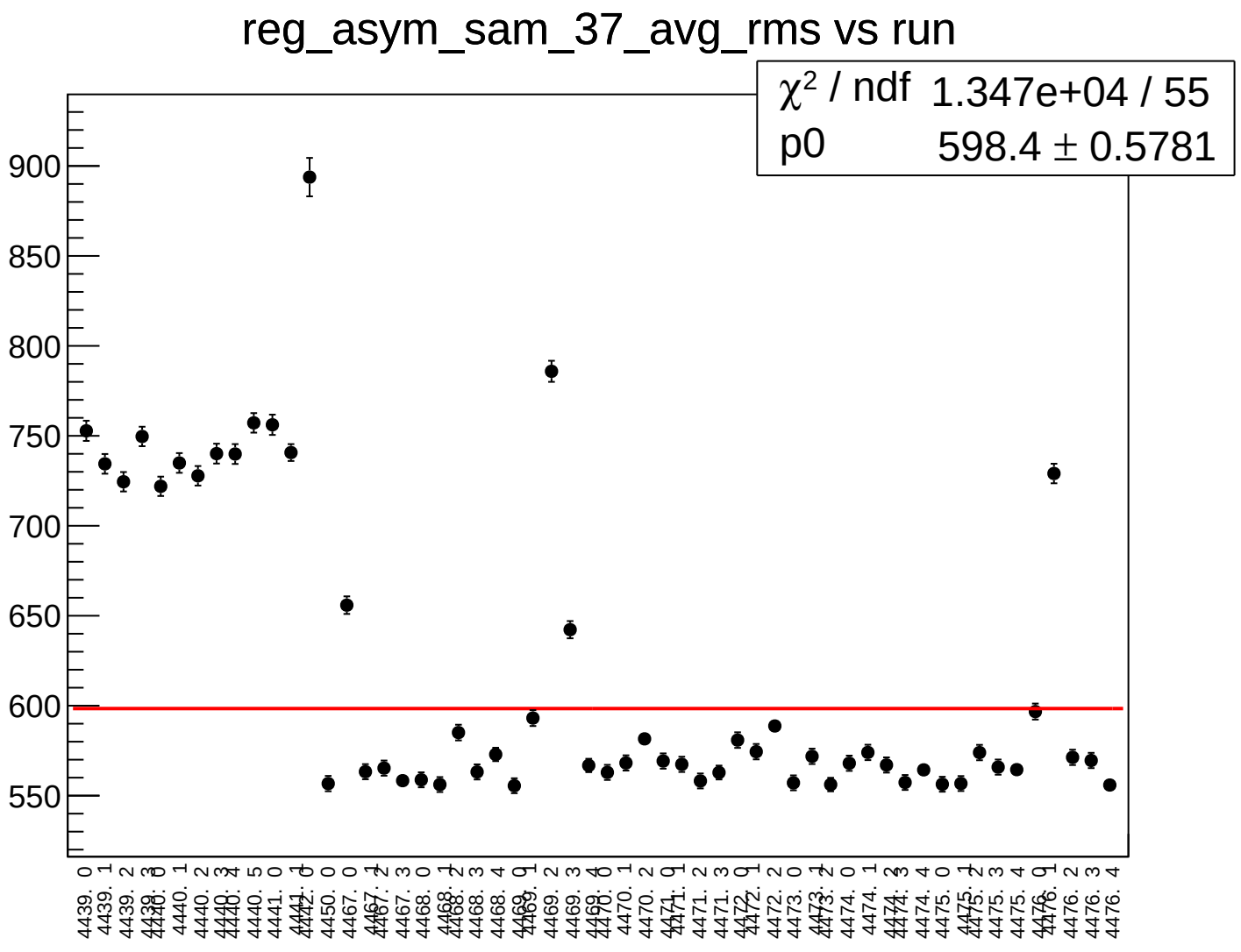

asym_sam_26_avg_correction_mean vs run
χ² / ndf 53.82 / 55
p0 4490 ± 2736
pull
Entries 56
Mean −88.52
Std Dev 119.7

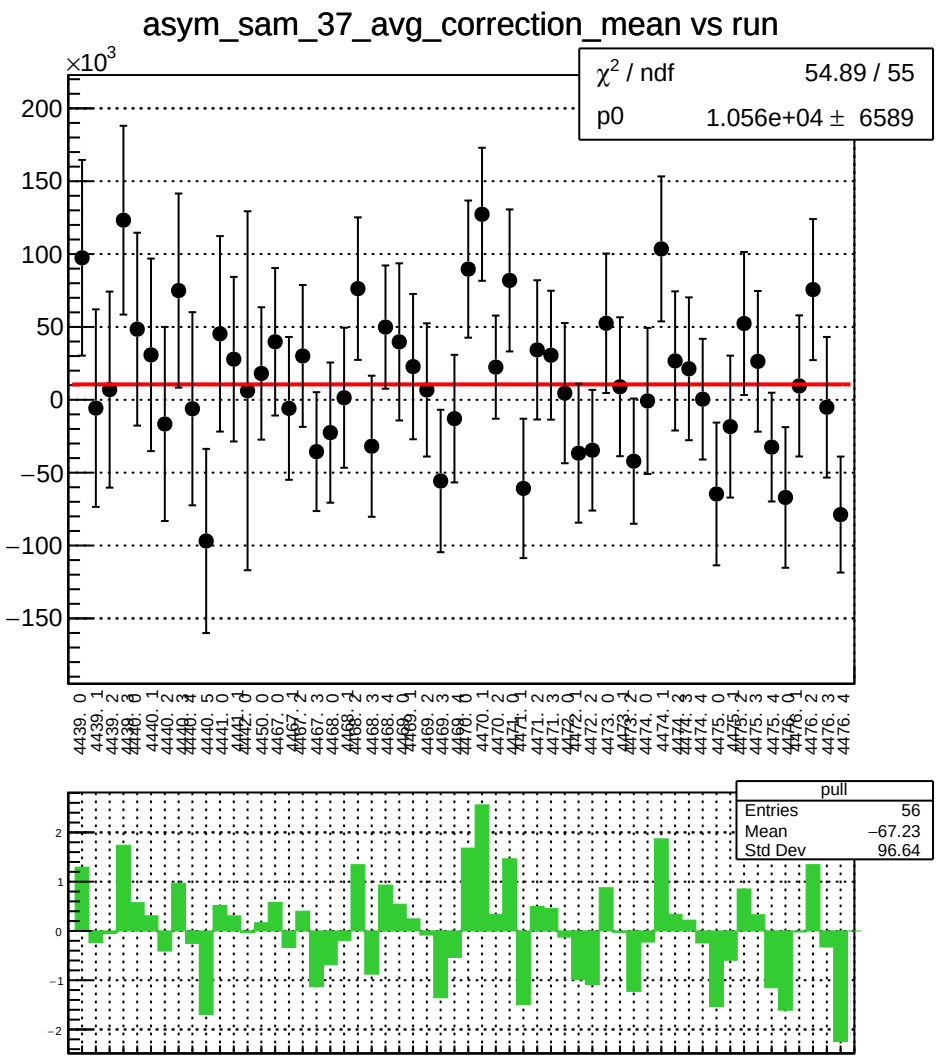

pull1D
Entries 56
Mean 0.02792
Std Dev 0.9799

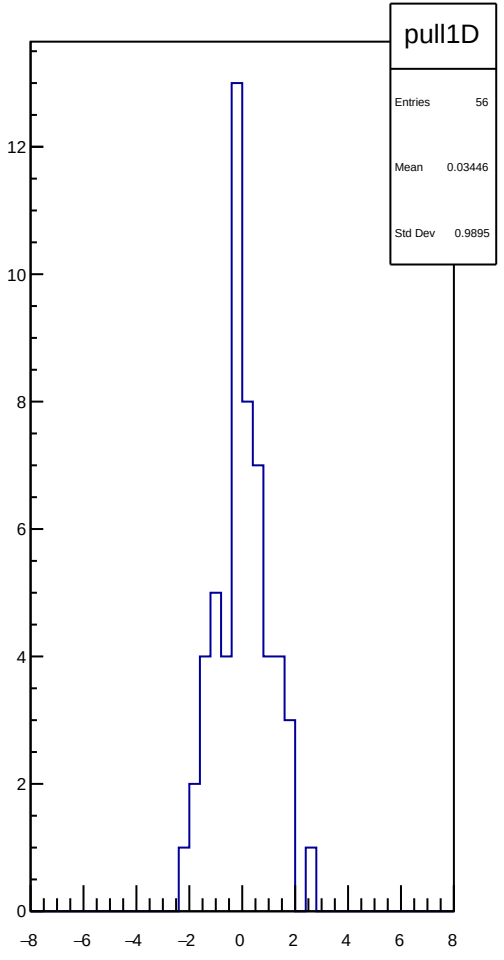

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1.879e+04 / 55
p0 1998 ± 1.934
3000
2800
2600
2400
2200
2000
1800
1600

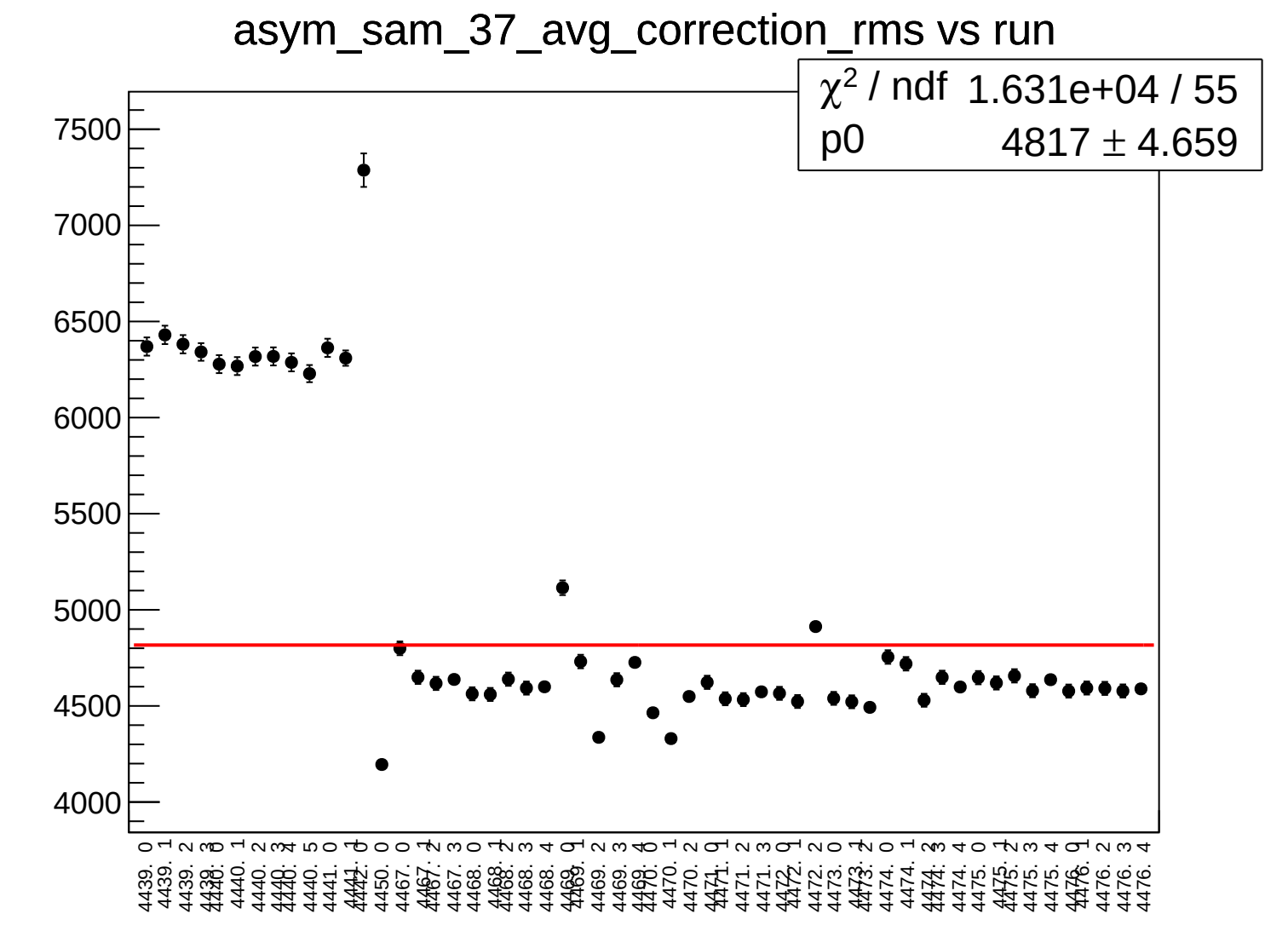

reg_asym_sam_37_avg_mean vs run
χ² / ndf 53.4 / 55
p0 −233.9 ± 817.5
20000
10000
0
−10000
−20000
pull
Entries 56
Mean −111.8
Std Dev 142.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

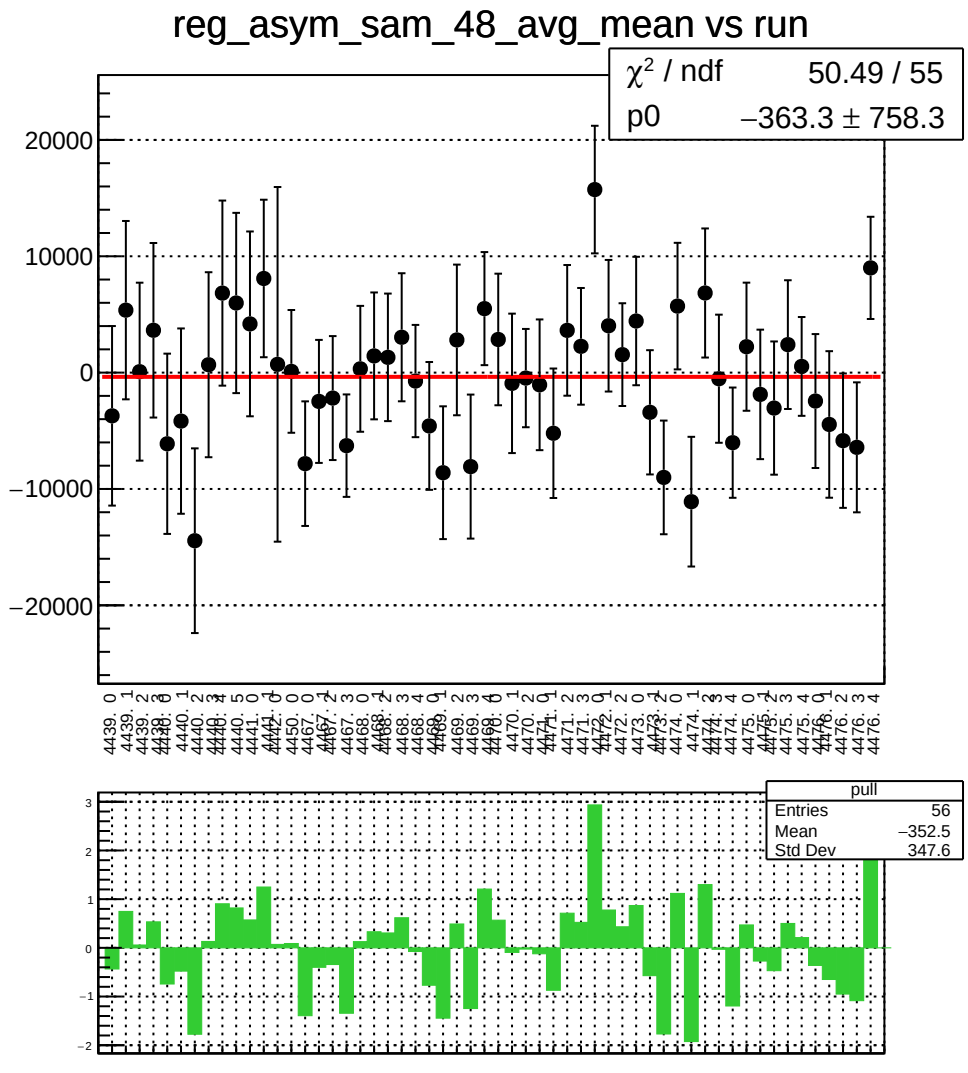

pull1D
Entries 56
Mean 0.01791
Std Dev 0.9763
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

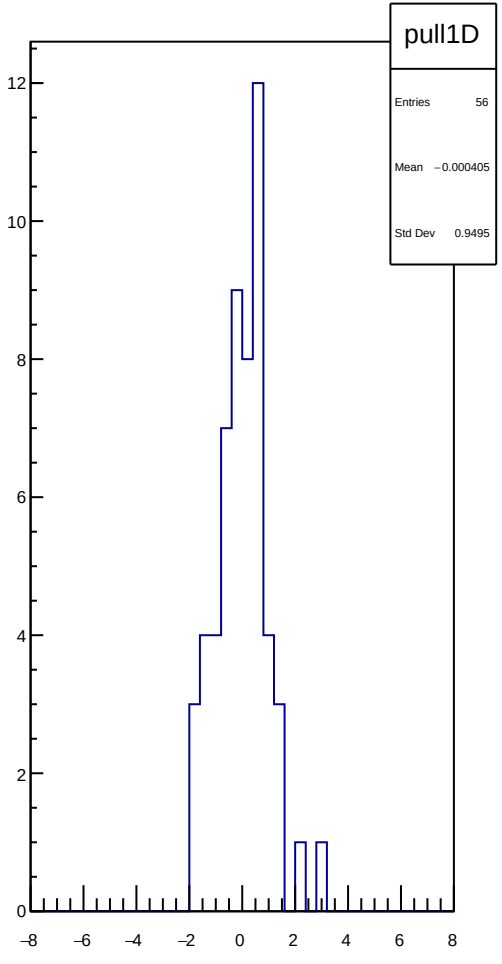

reg_asym_sam_37_avg_rms vs run
χ² / ndf 1.347e+04 / 55
p0 598.4 ± 0.5781
900
850
800
750
700
650
600
550
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

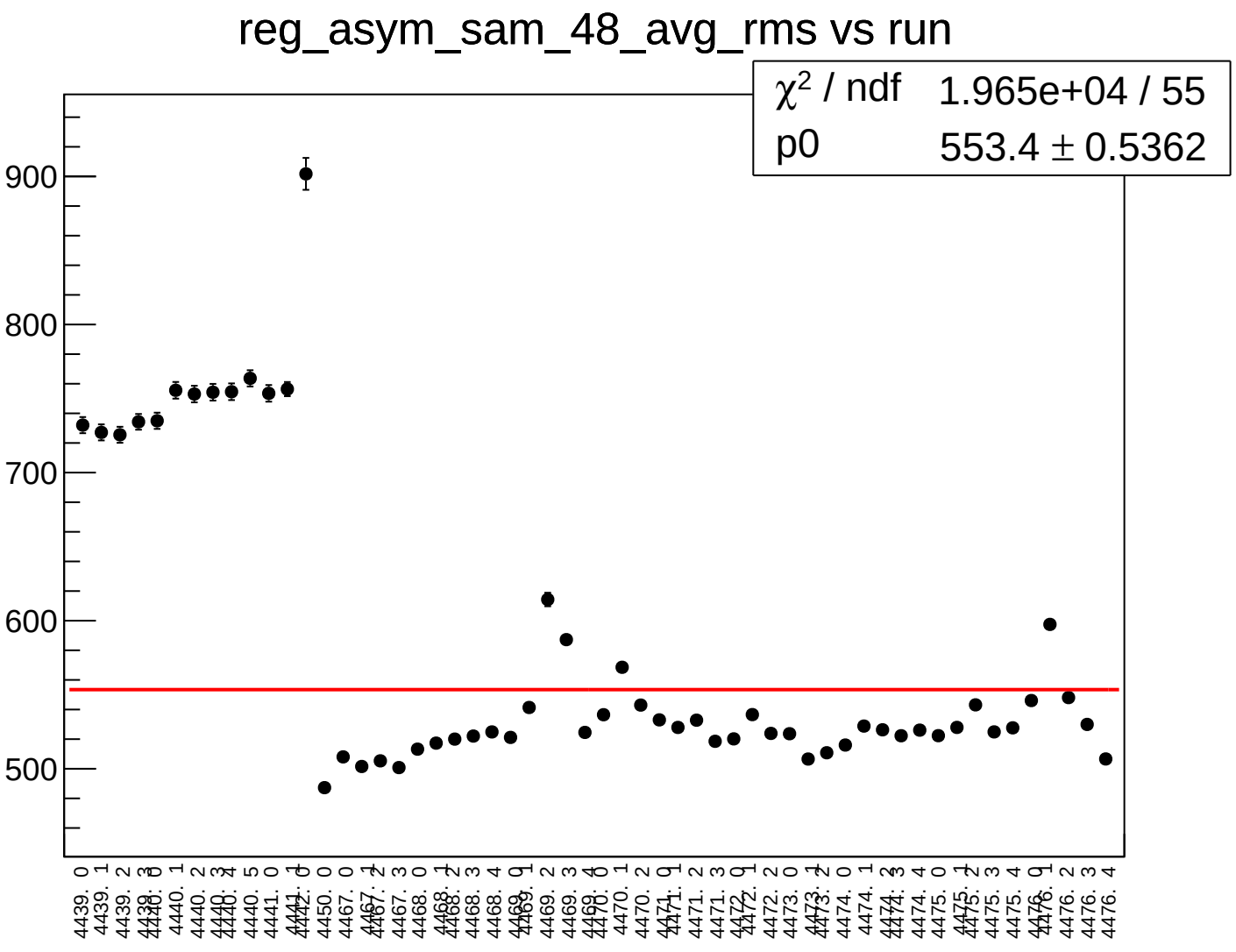

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 54.89 / 55
p0 1.056e+04 ± 6589
pull
Entries 56
Mean −67.23
Std Dev 96.64

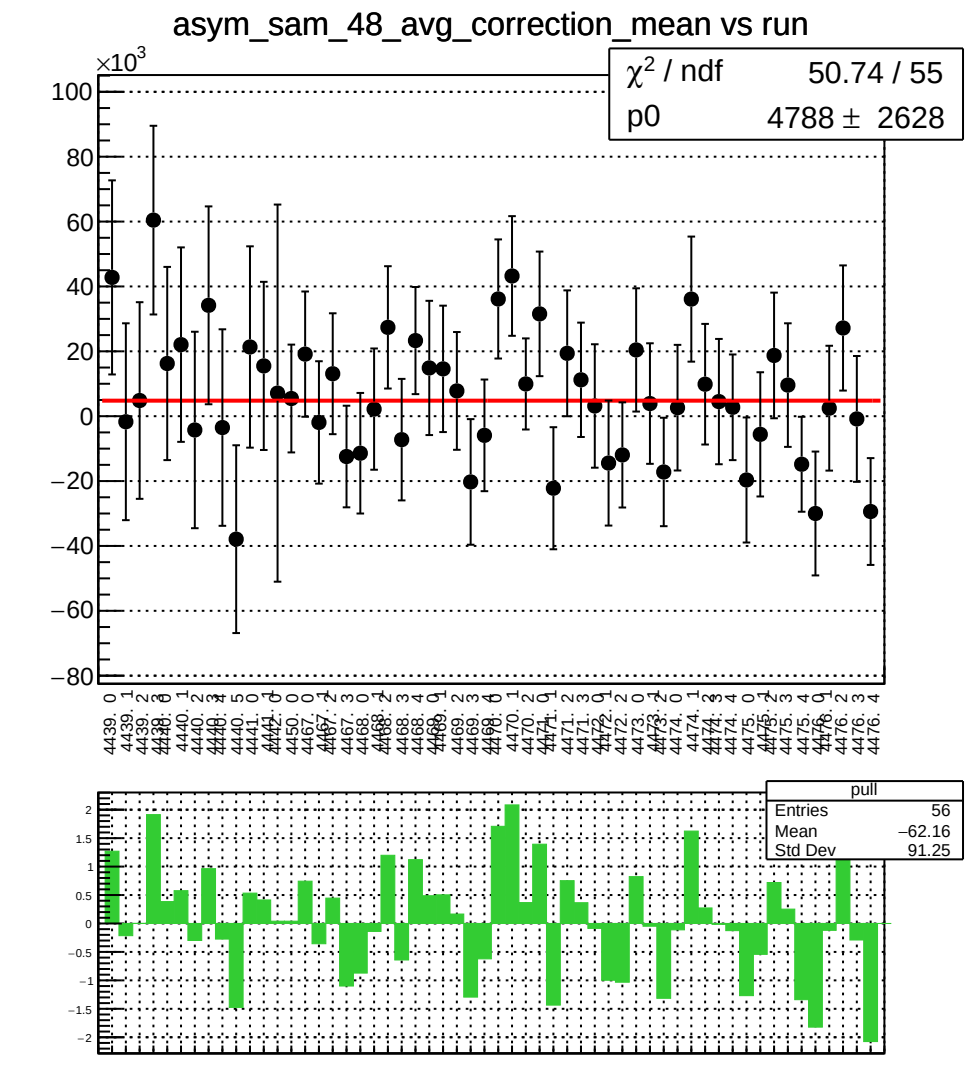

pull1D
Entries 56
Mean 0.03446
Std Dev 0.9895

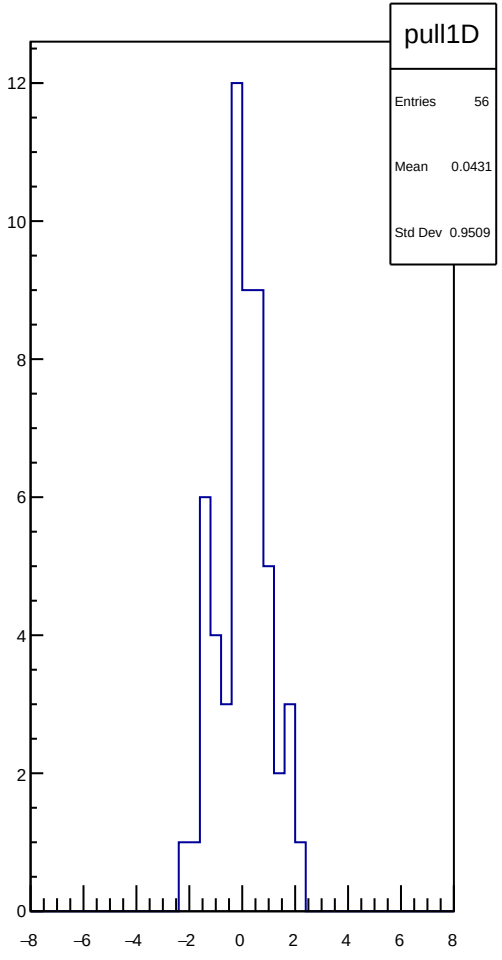

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1.631e+04 / 55
p0 4817 ± 4.659
7500
7000
6500
6000
5500
5000
4500
4000

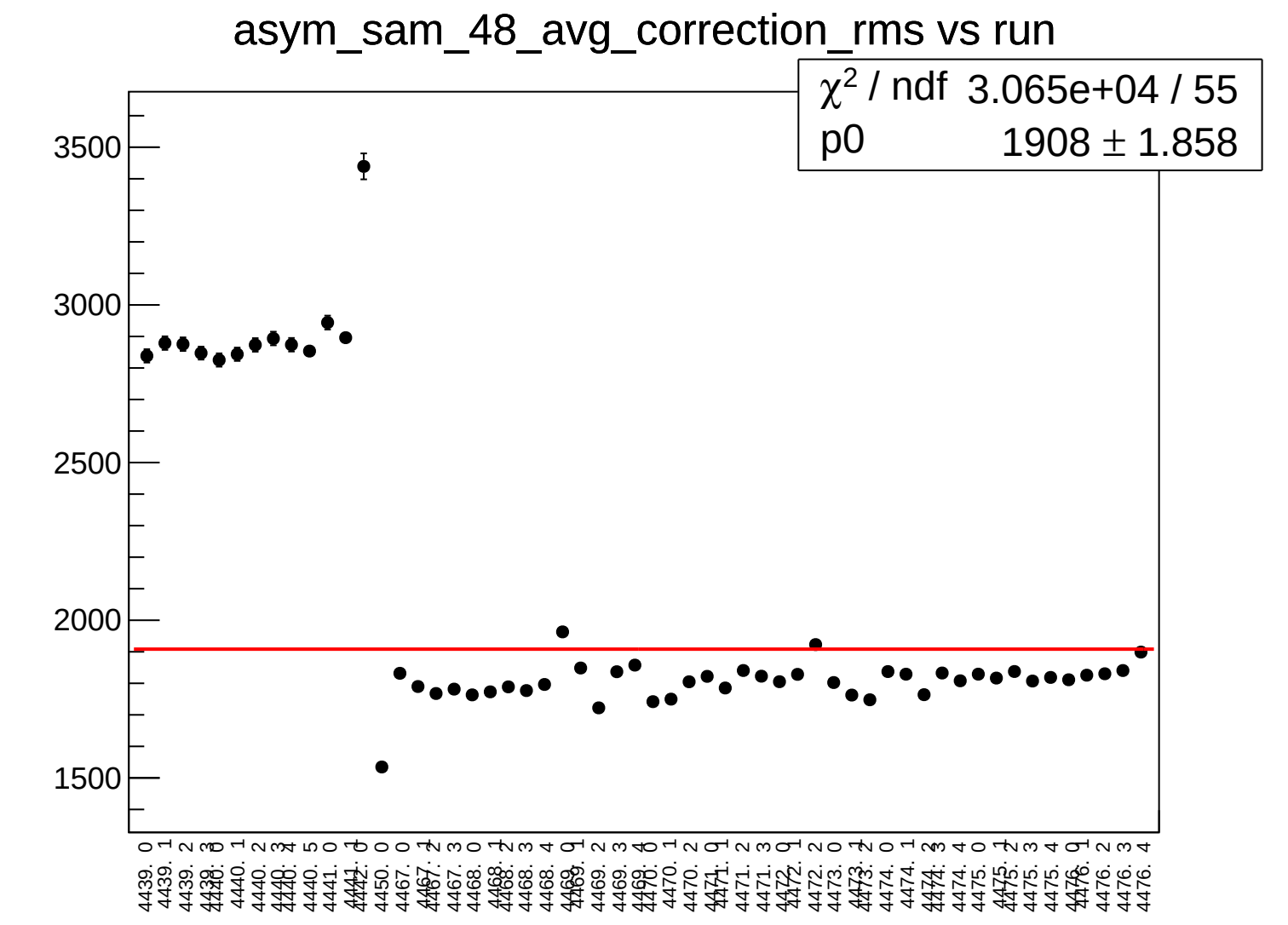

reg_asym_sam_48_avg_mean vs run
χ² / ndf 50.49 / 55
p0 −363.3 ± 758.3
pull
Entries 56
Mean −352.5
Std Dev 347.6

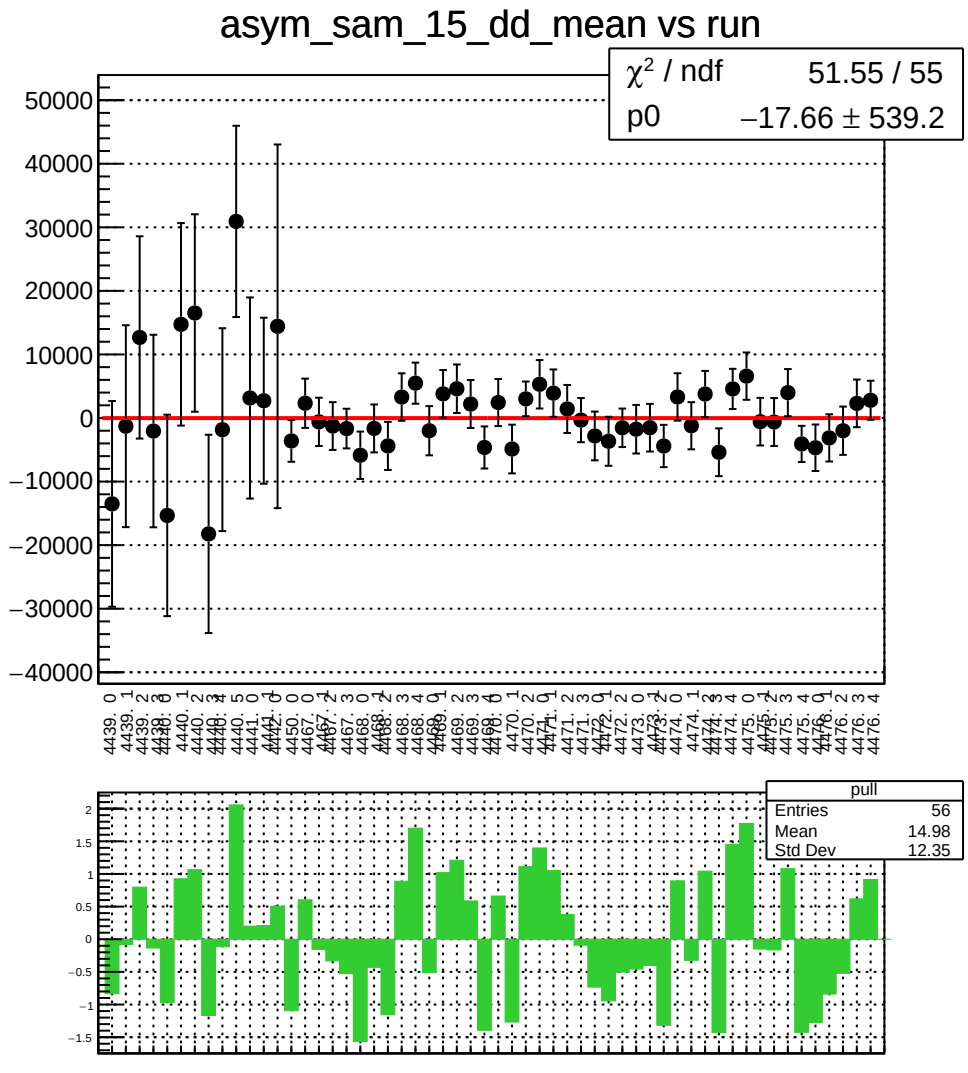

pull1D
Entries 56
Mean −0.000405
Std Dev 0.9495

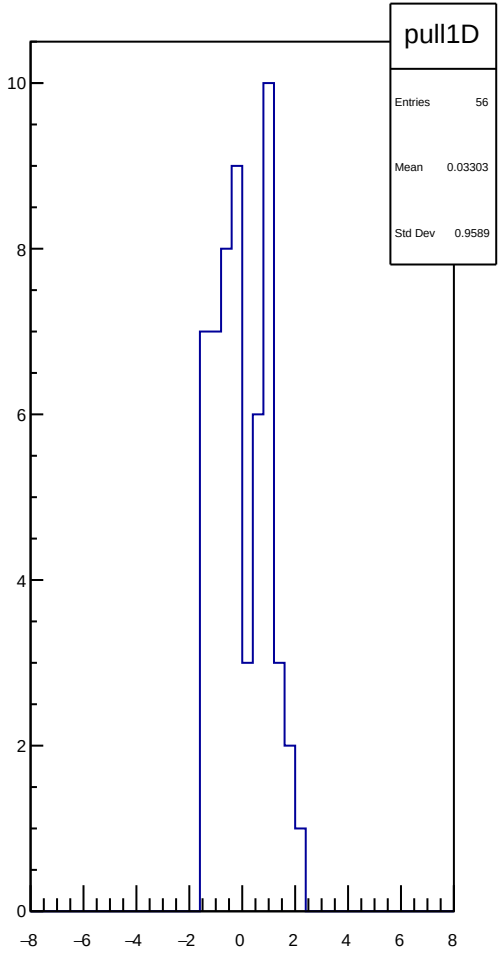

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.965e+04 / 55
p0 553.4 ± 0.5362
900
800
700
600
500

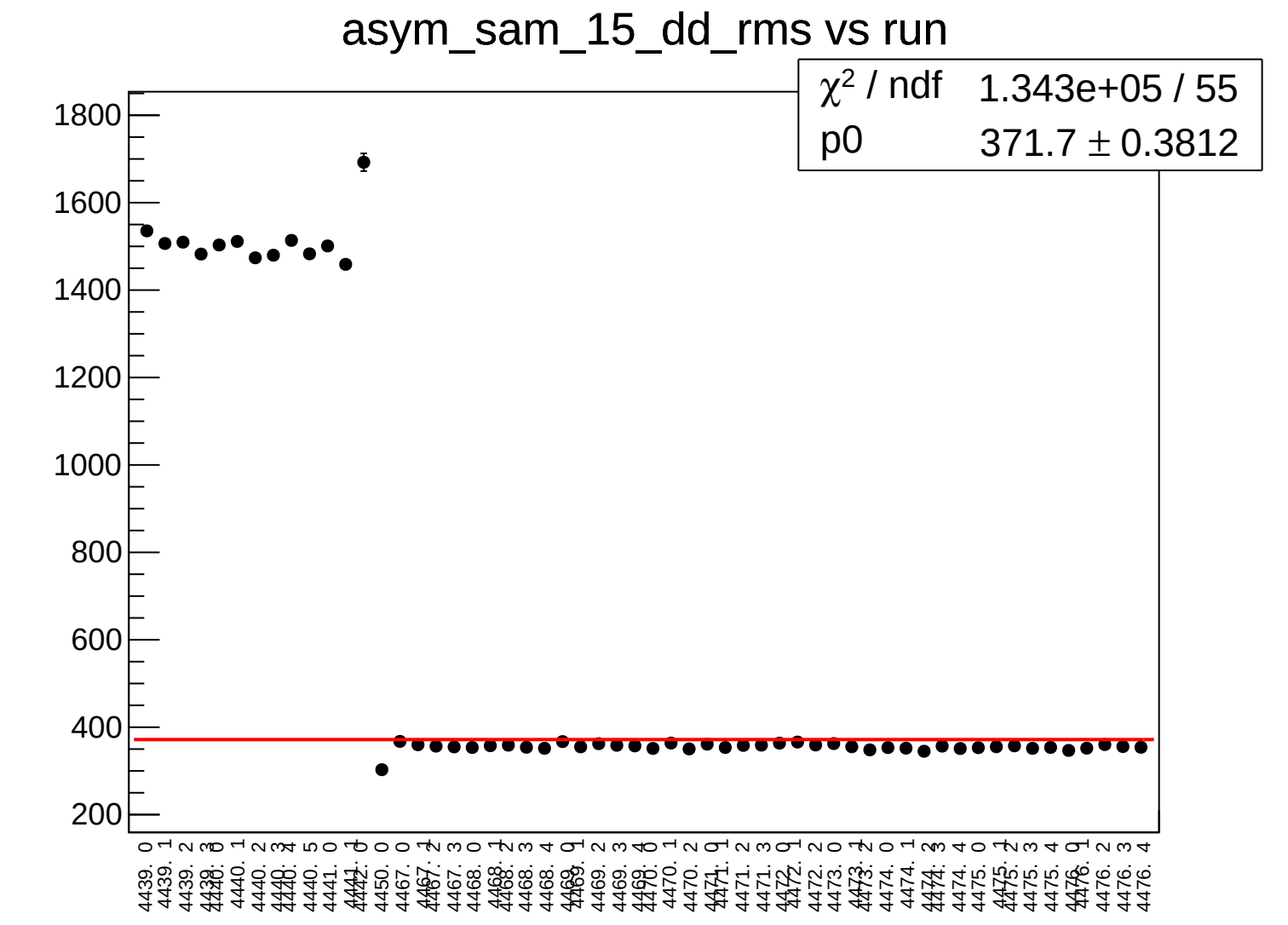

asym_sam_48_avg_correction_mean vs run
×10^3
χ² / ndf 50.74 / 55
p0 4788 ± 2628
pull
Entries 56
Mean −62.16
Std Dev 91.25

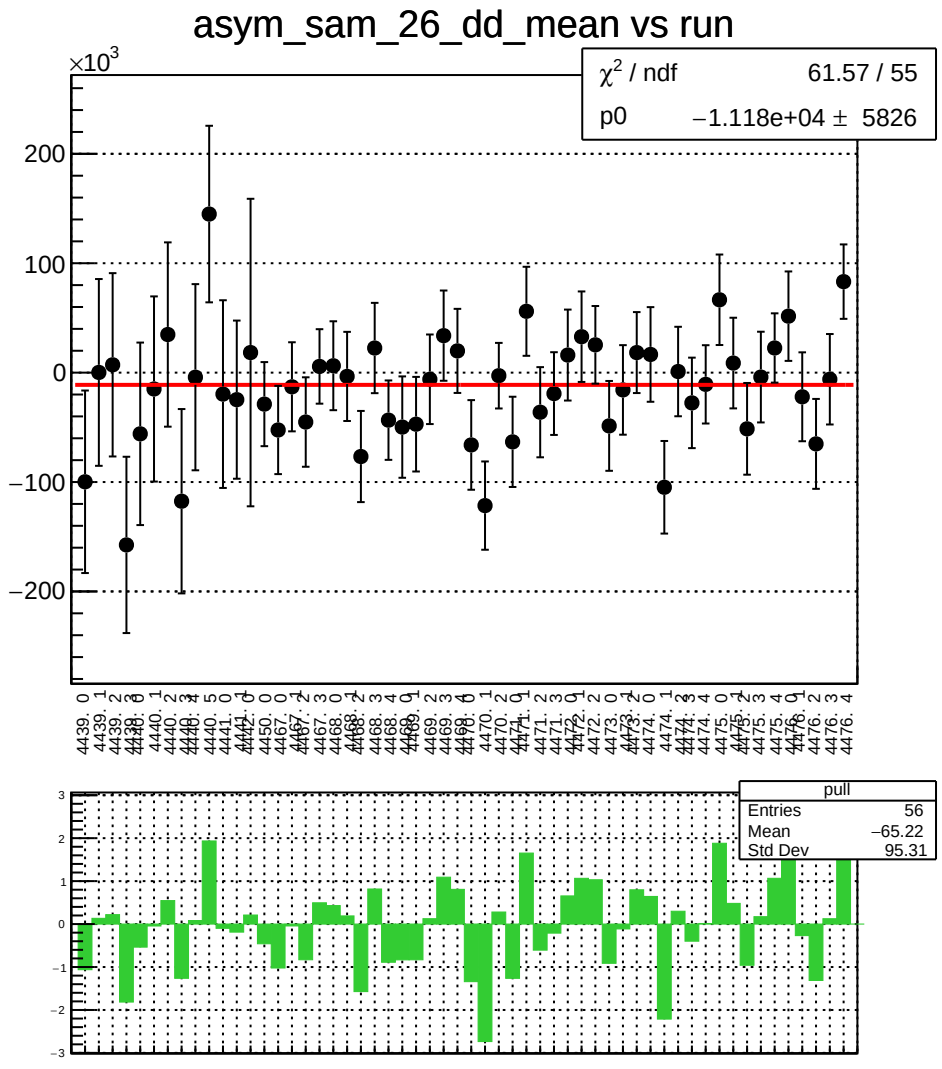

pull1D
Entries 56
Mean 0.0431
Std Dev 0.9509

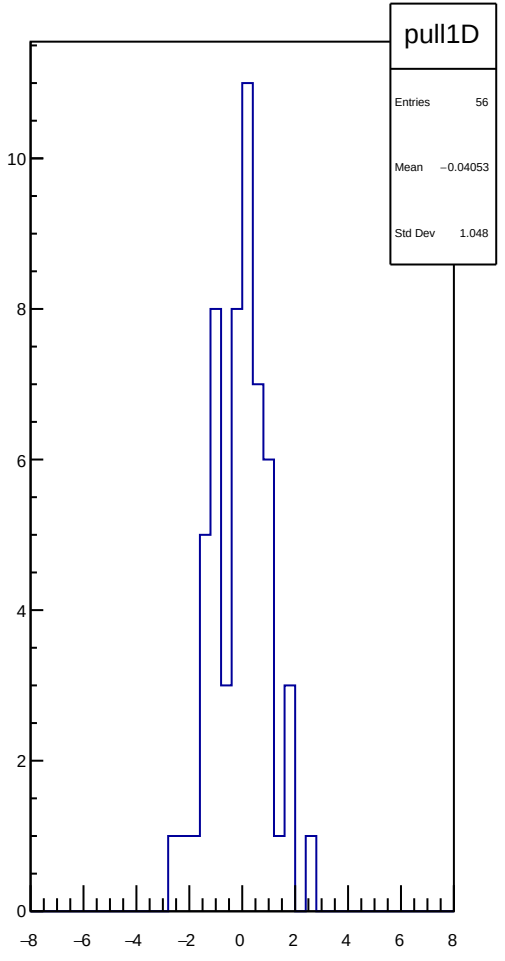

asym_sam_48_avg_correction_rms vs run
χ² / ndf 3.065e+04 / 55
p0 1908 ± 1.858
3500
3000
2500
2000
1500

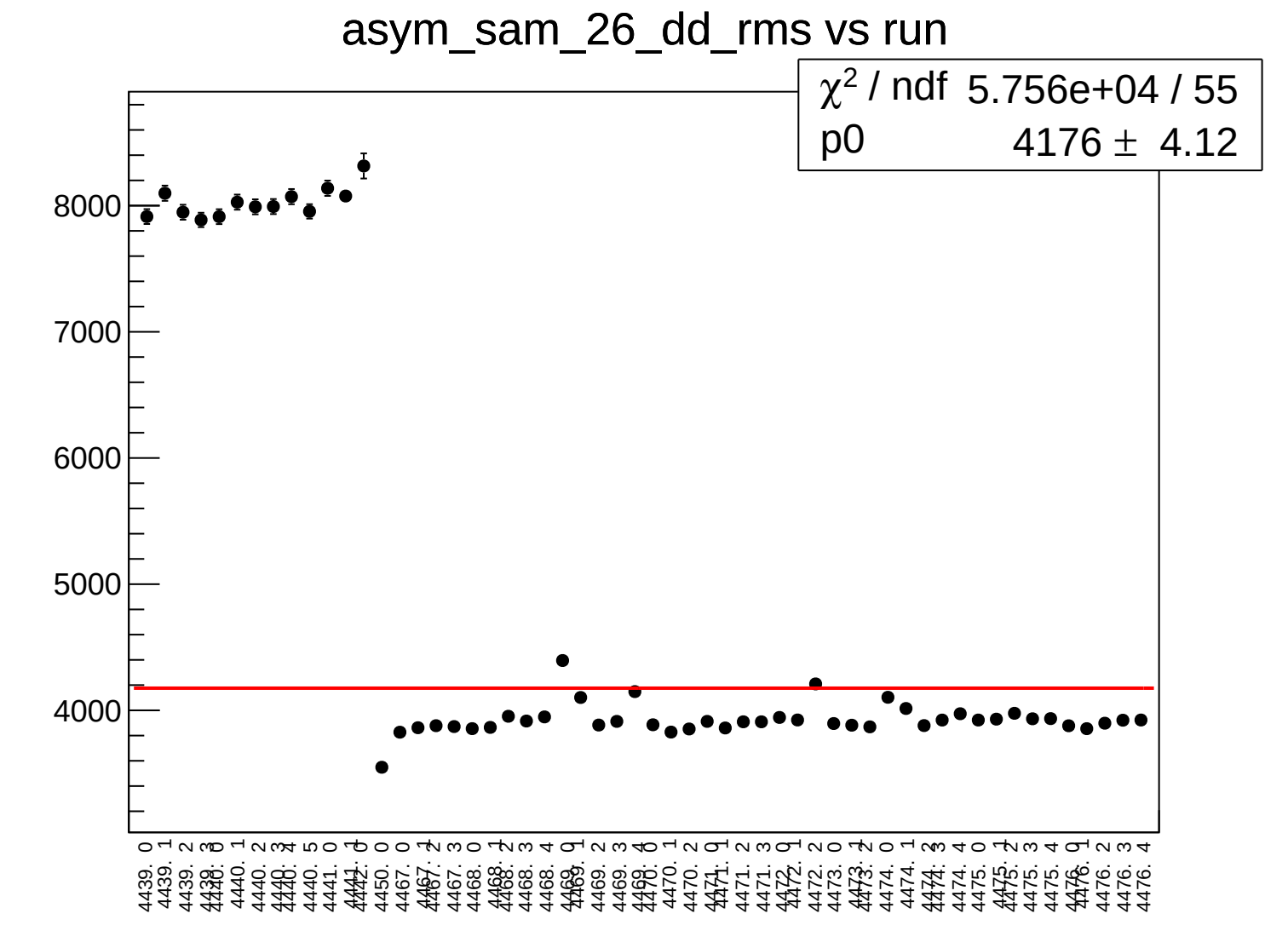

asym_sam_15_dd_mean vs run
χ² / ndf 51.55 / 55
p0 −17.66 ± 539.2
pull
Entries 56
Mean 14.98
Std Dev 12.35

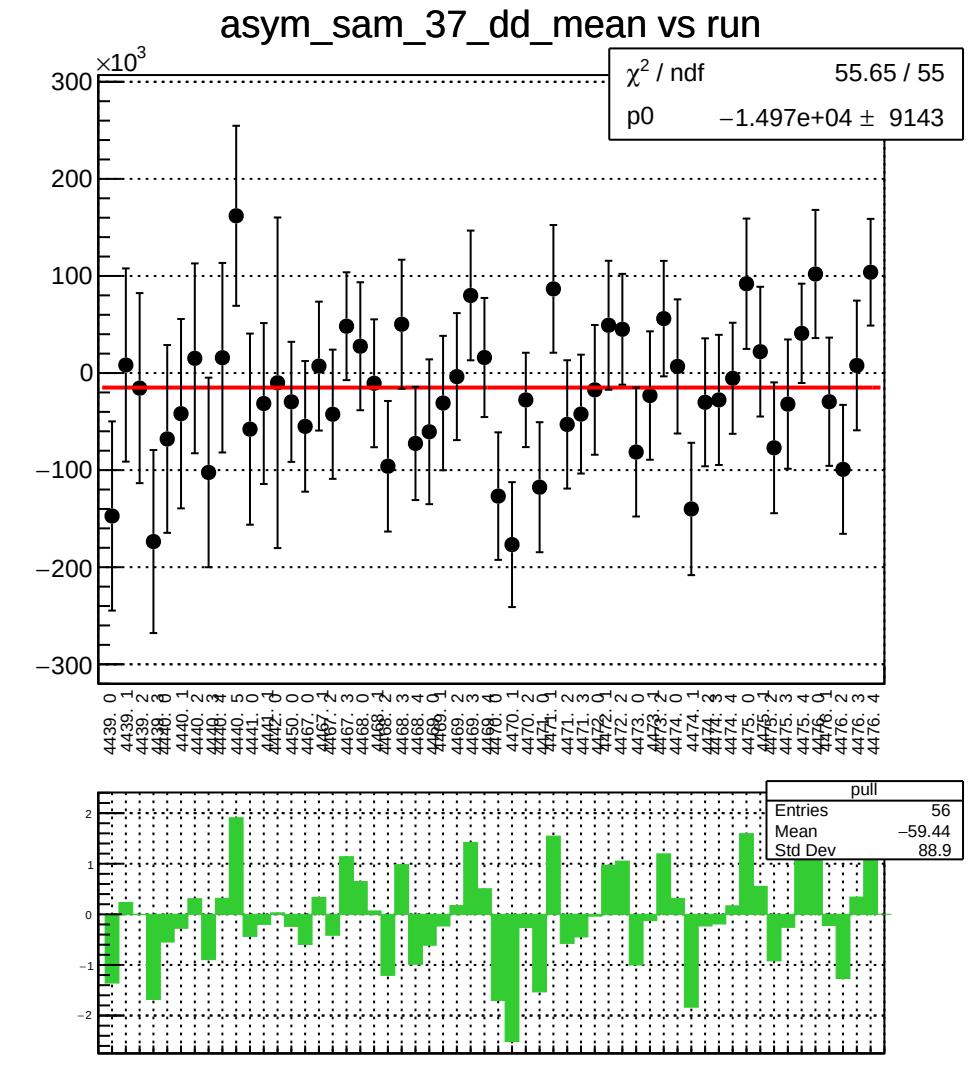

pull1D
Entries 56
Mean 0.03303
Std Dev 0.9589

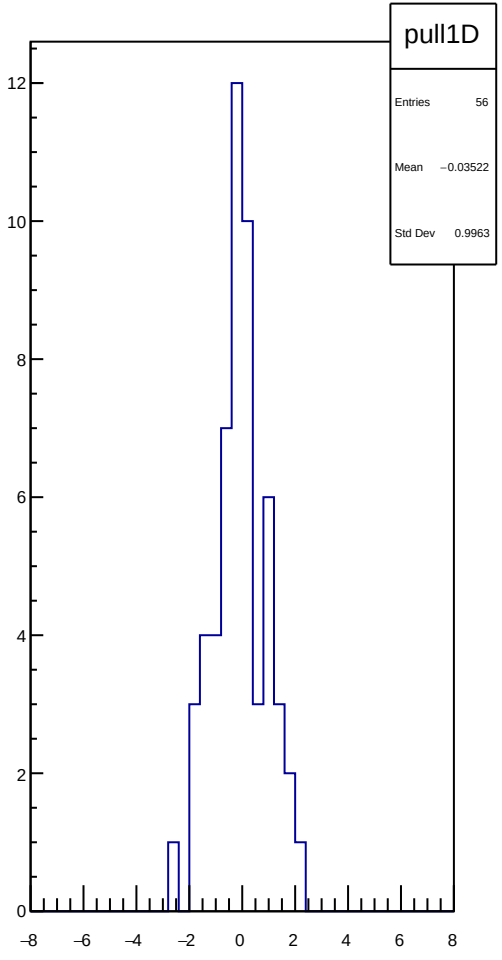

asym_sam_15_dd_rms vs run
χ² / ndf 1.343e+05 / 55
p0 371.7 ± 0.3812
1800
1600
1400
1200
1000
800
600
400
200

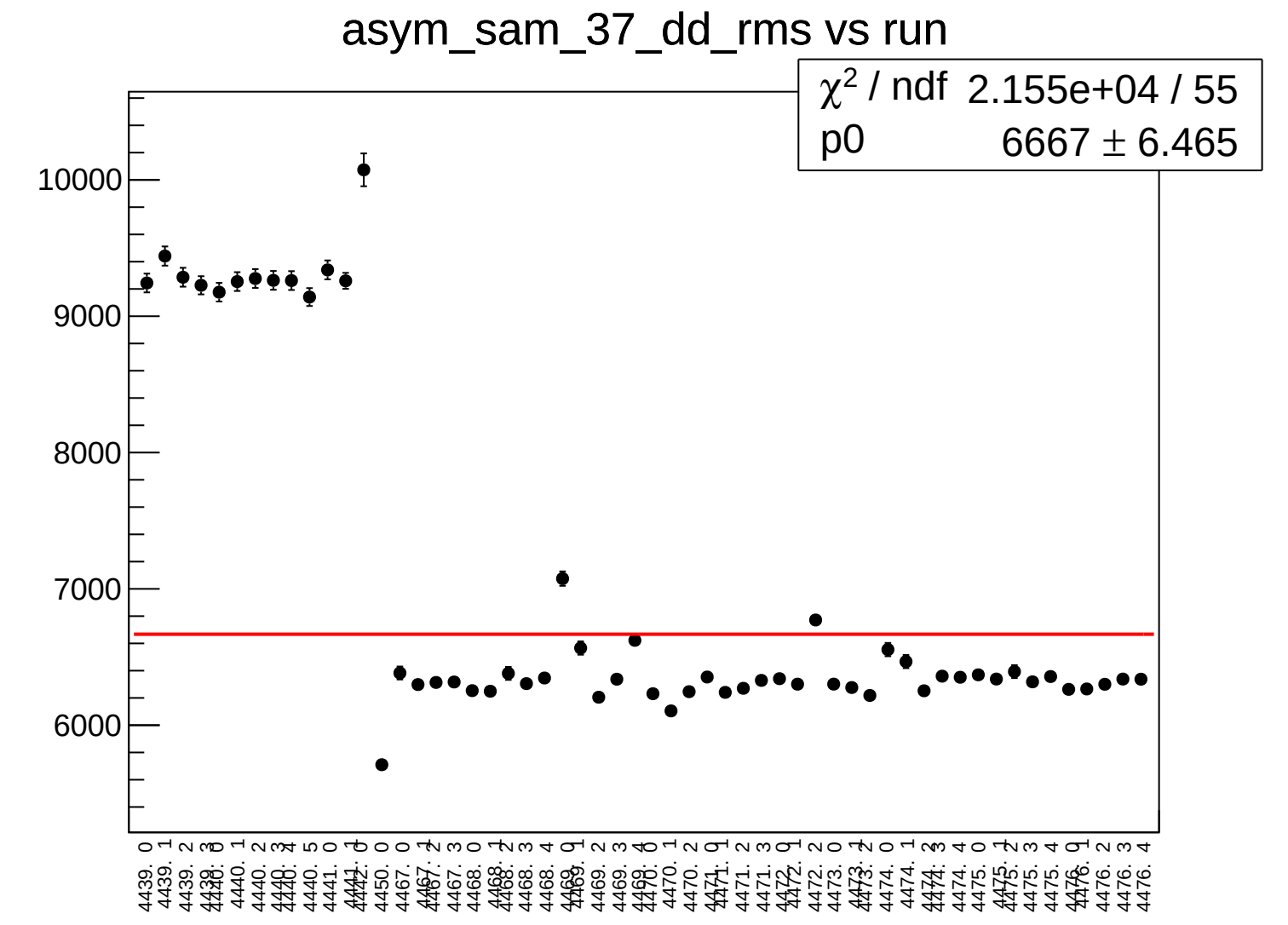

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 61.57 / 55
p0 −1.118e+04 ± 5826
200
100
0
−100
−200
pull
Entries 56
Mean −65.22
Std Dev 95.31
3
2
1
0
−1
−2
−3

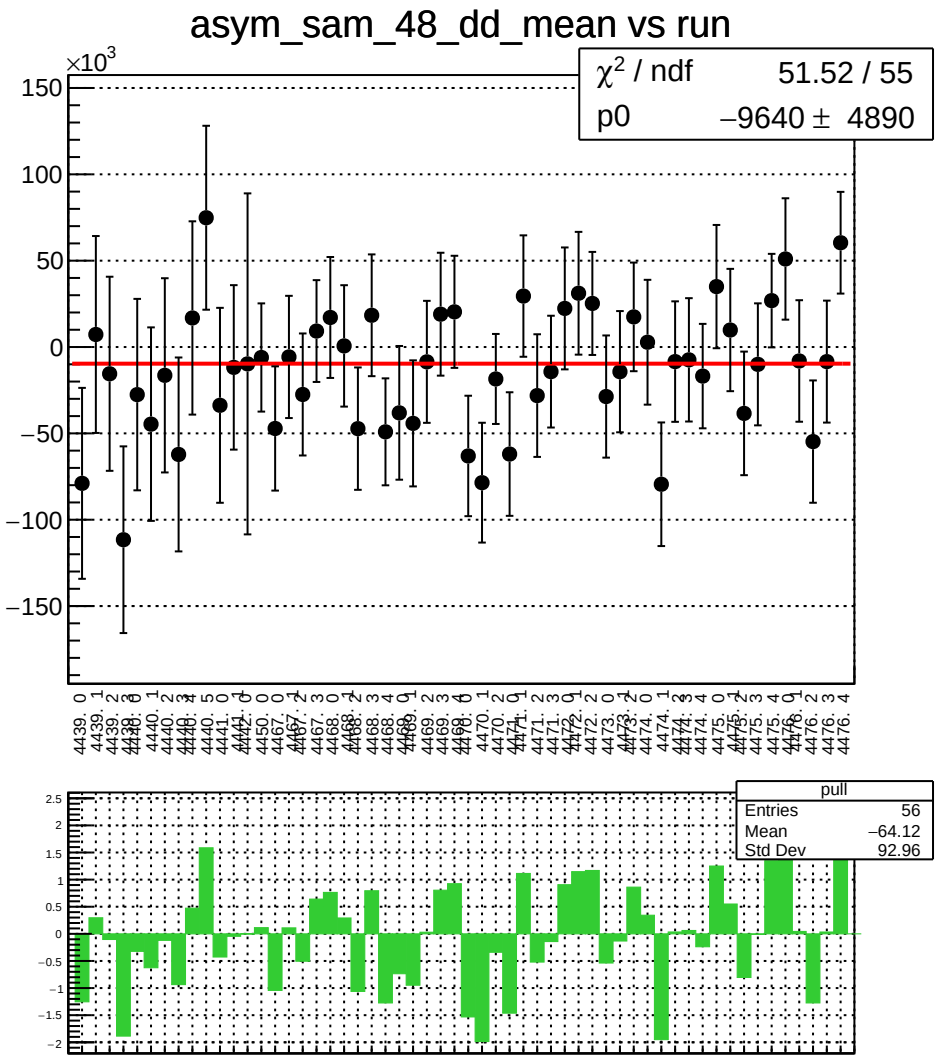

pull1D
Entries 56
Mean −0.04053
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

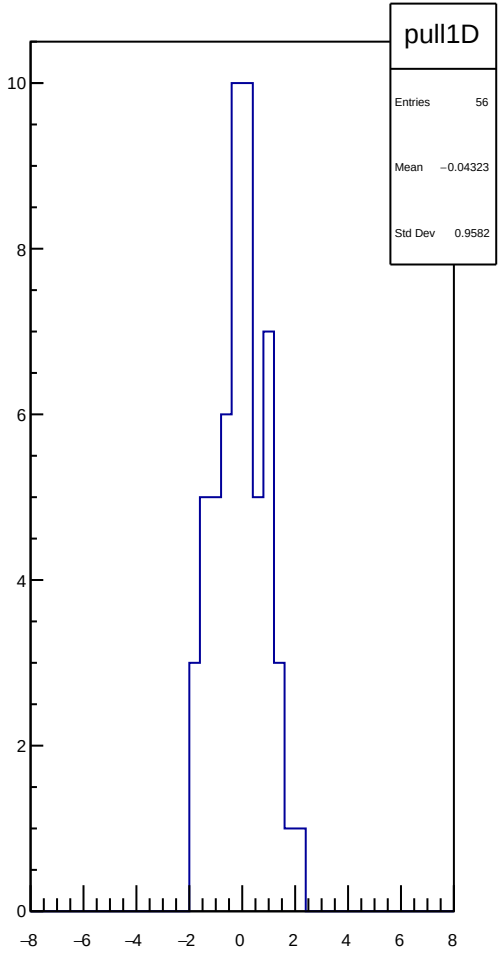

asym_sam_26_dd_rms vs run
χ² / ndf 5.756e+04 / 55
p0 4176 ± 4.12
8000
7000
6000
5000
4000

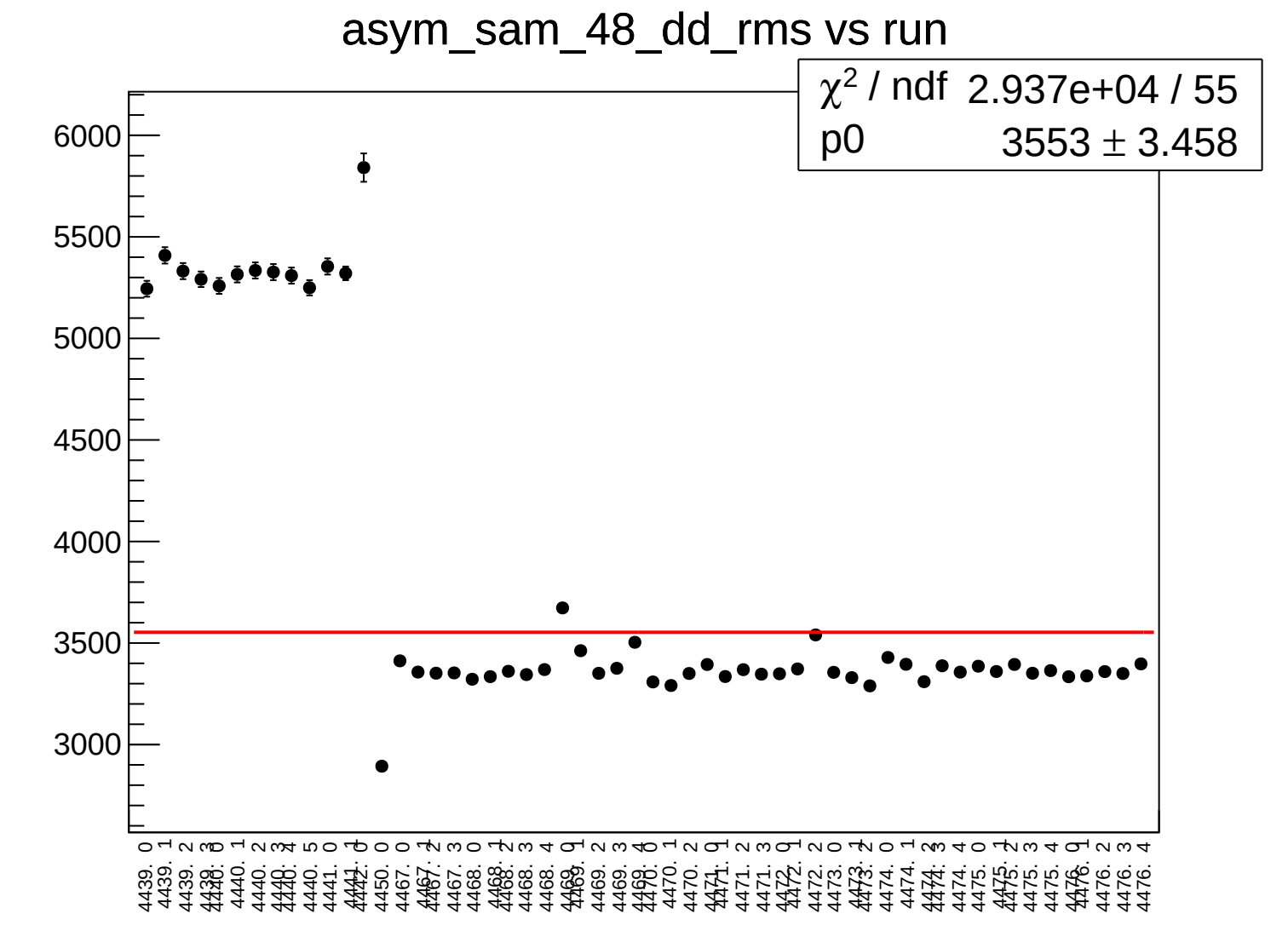

asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 55.65 / 55
p0 −1.497e+04 ± 9143
pull
Entries 56
Mean −59.44
Std Dev 88.9

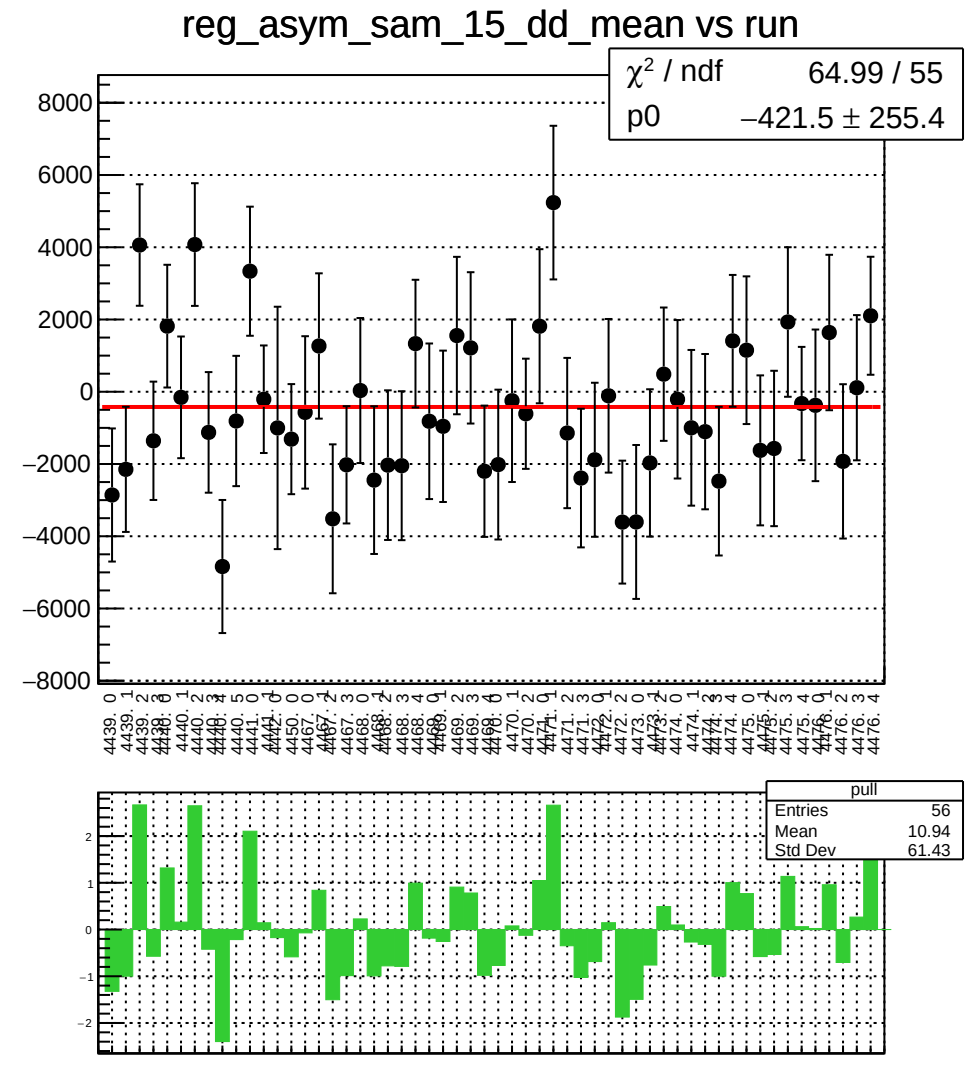

pull1D
Entries 56
Mean −0.03522
Std Dev 0.9963

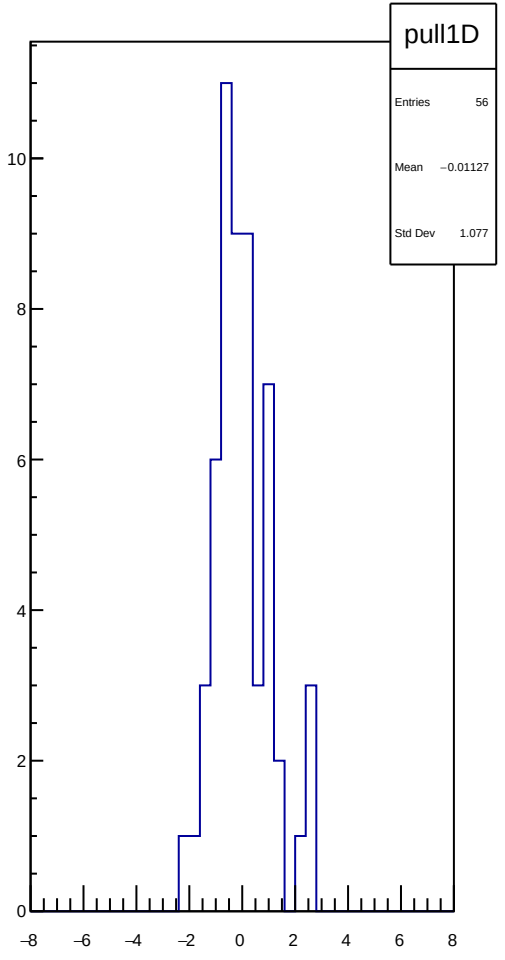

asym_sam_37_dd_rms vs run
χ² / ndf 2.155e+04 / 55
p0 6667 ± 6.465
10000
9000
8000
7000
6000

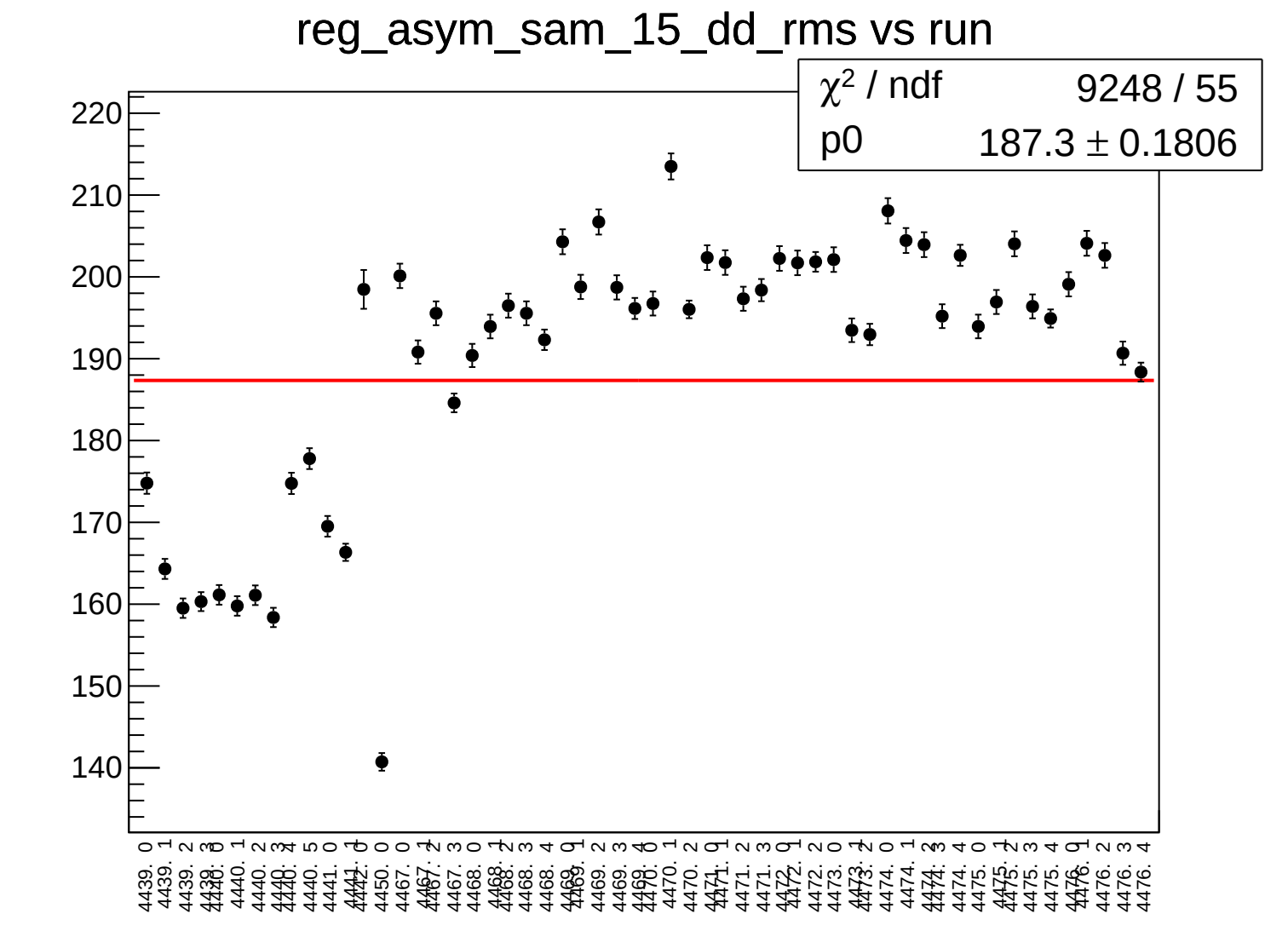

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 51.52 / 55
p0 −9640 ± 4890
150
100
50
0
−50
−100
−150
pull
Entries 56
Mean −64.12
Std Dev 92.96
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

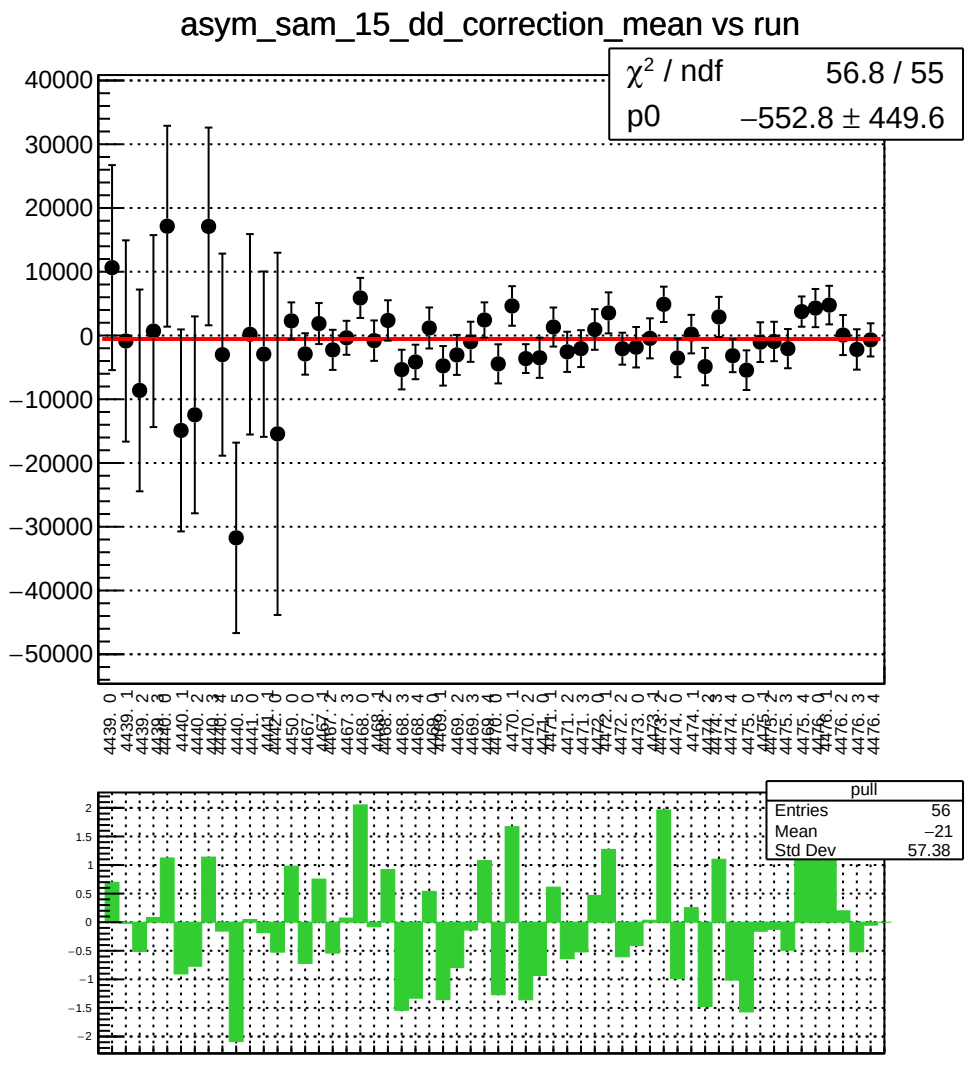

pull1D
Entries 56
Mean −0.04323
Std Dev 0.9582
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

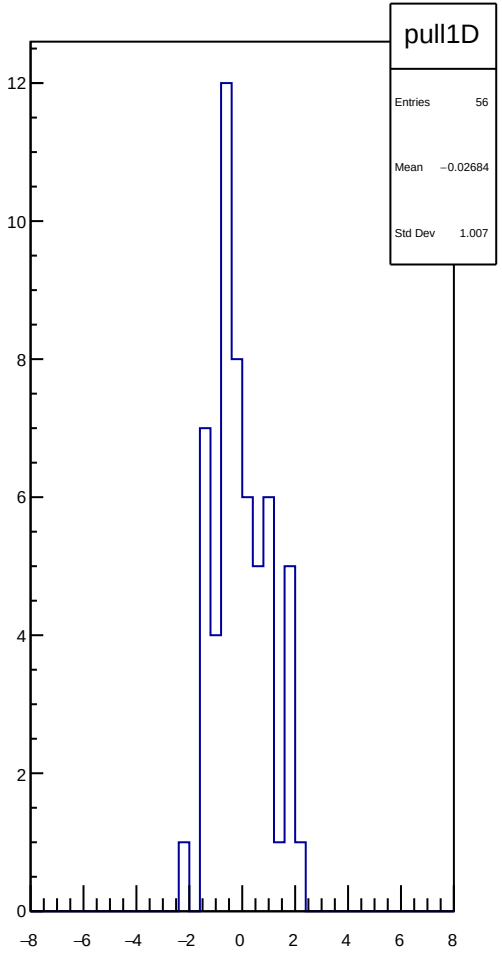

asym_sam_48_dd_rms vs run
χ² / ndf 2.937e+04 / 55
p0 3553 ± 3.458
6000
5500
5000
4500
4000
3500
3000

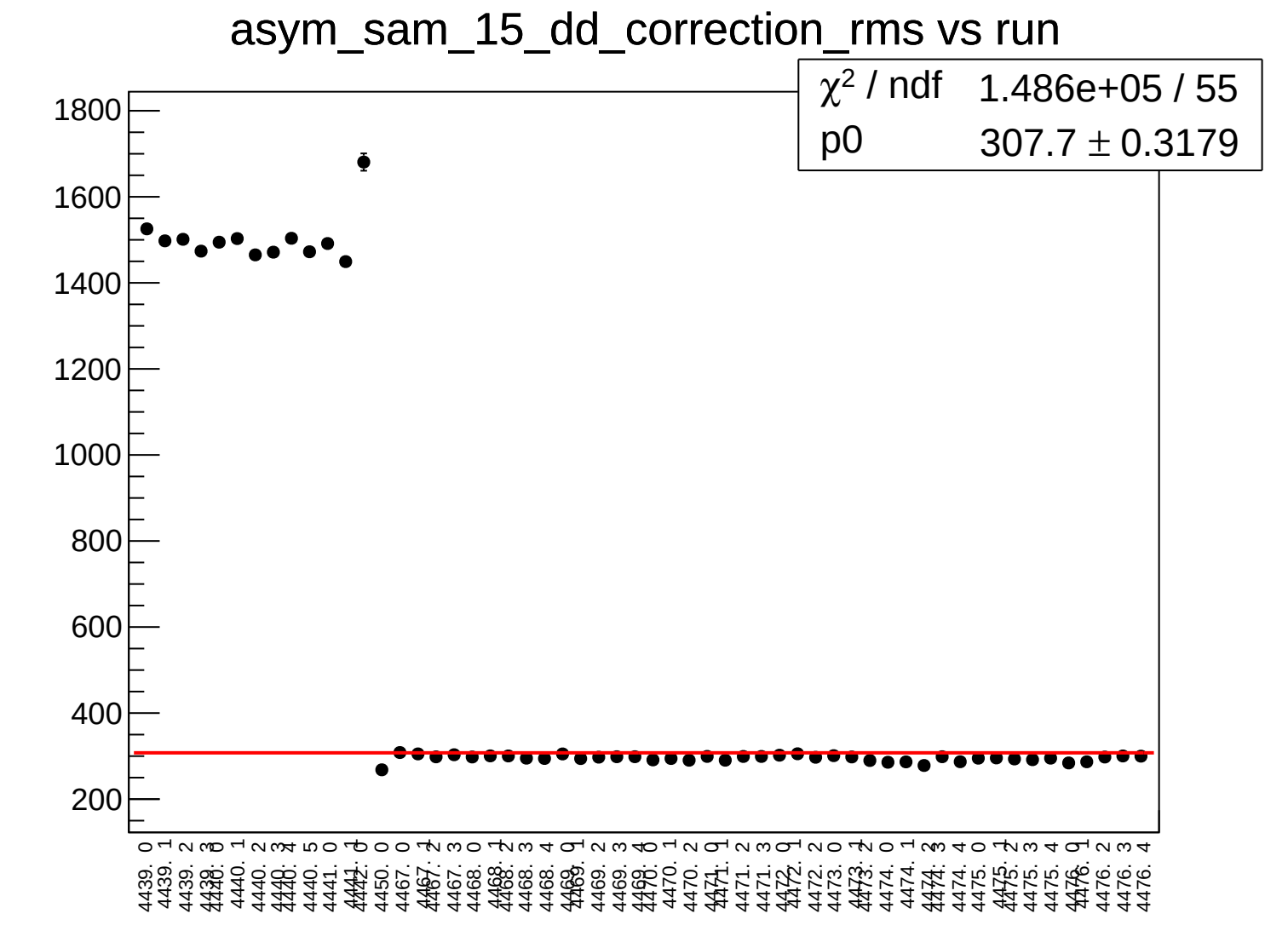

reg_asym_sam_15_dd_mean vs run
χ² / ndf 64.99 / 55
p0 −421.5 ± 255.4
pull
Entries 56
Mean 10.94
Std Dev 61.43

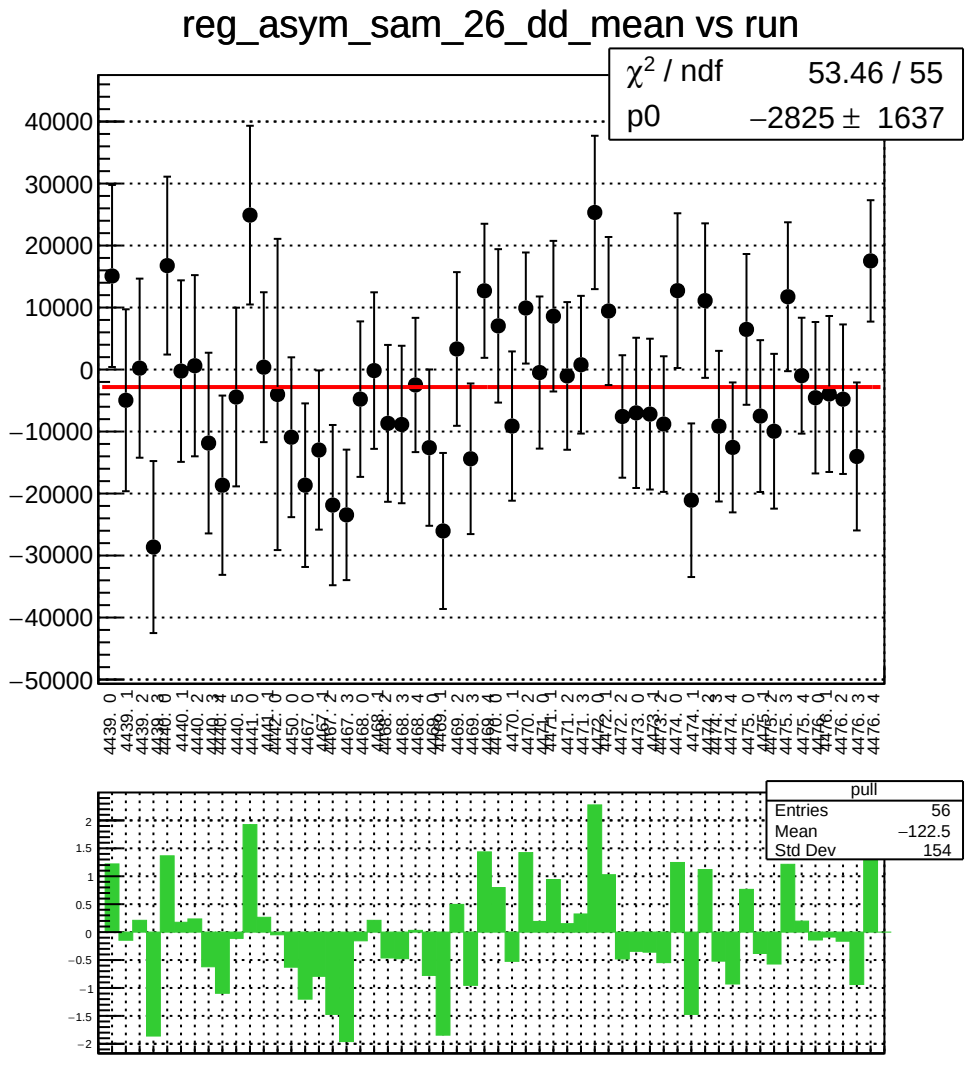

pull1D
Entries 56
Mean −0.01127
Std Dev 1.077

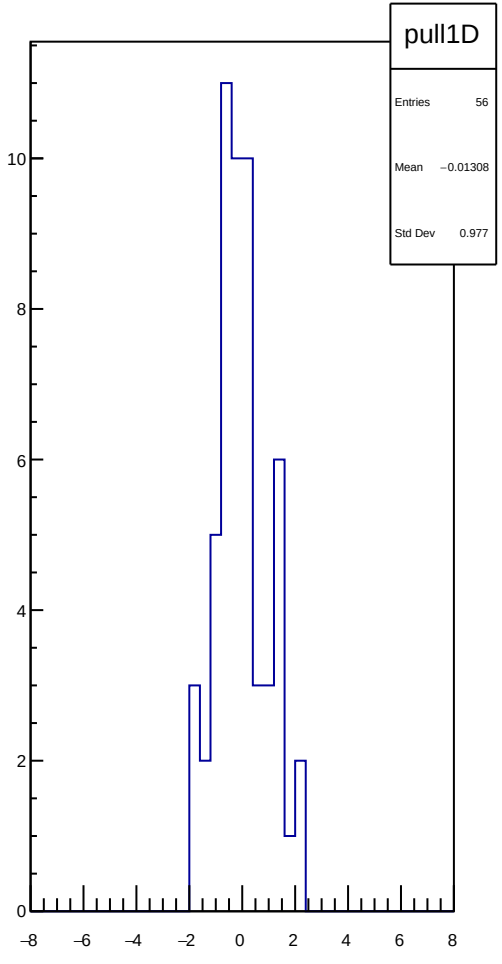

reg_asym_sam_15_dd_rms vs run
χ² / ndf 9248 / 55
p0 187.3 ± 0.1806
220
210
200
190
180
170
160
150
140

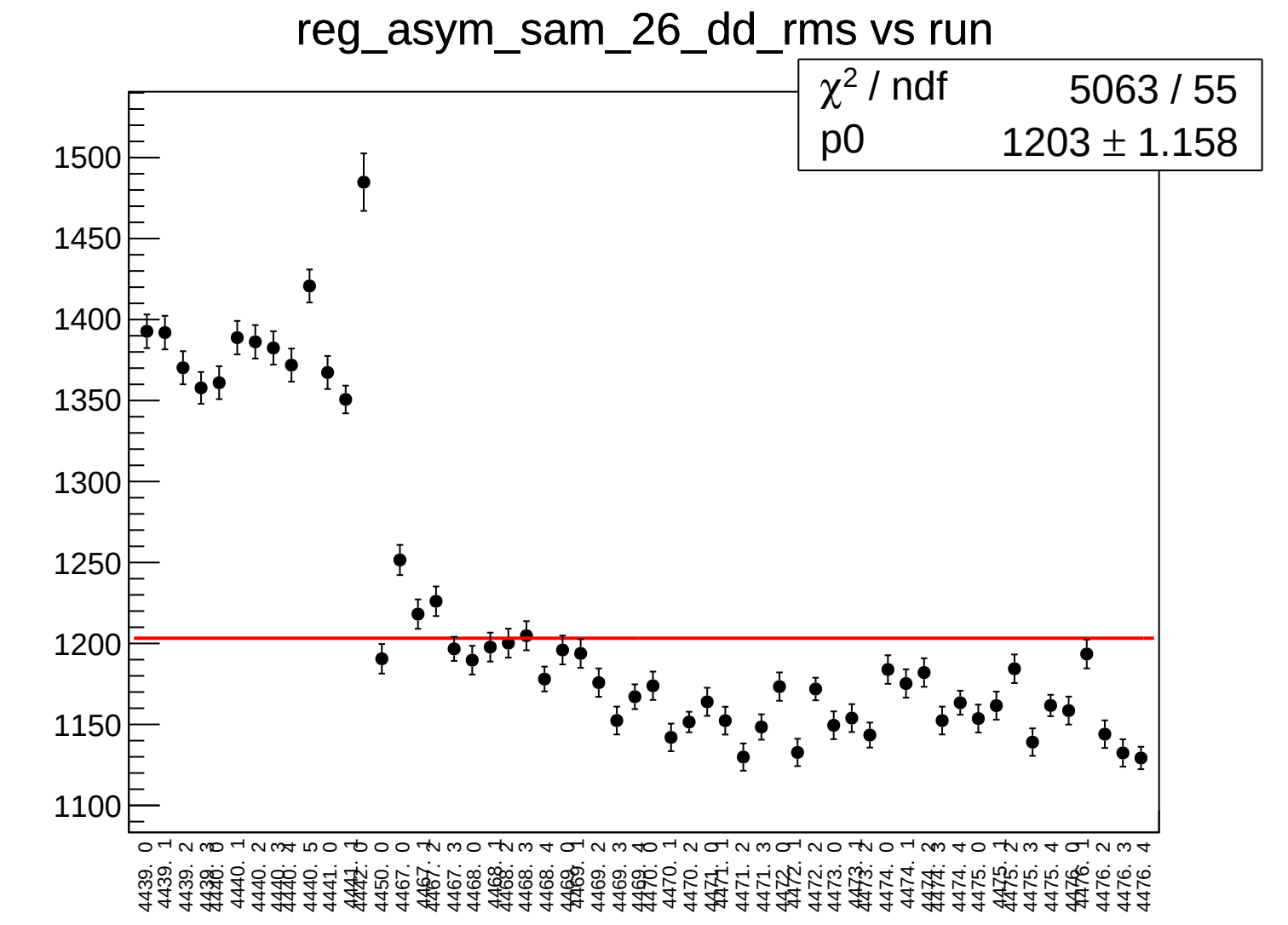

asym_sam_15_dd_correction_mean vs run
χ² / ndf 56.8 / 55
p0 −552.8 ± 449.6
pull
Entries 56
Mean −21
Std Dev 57.38

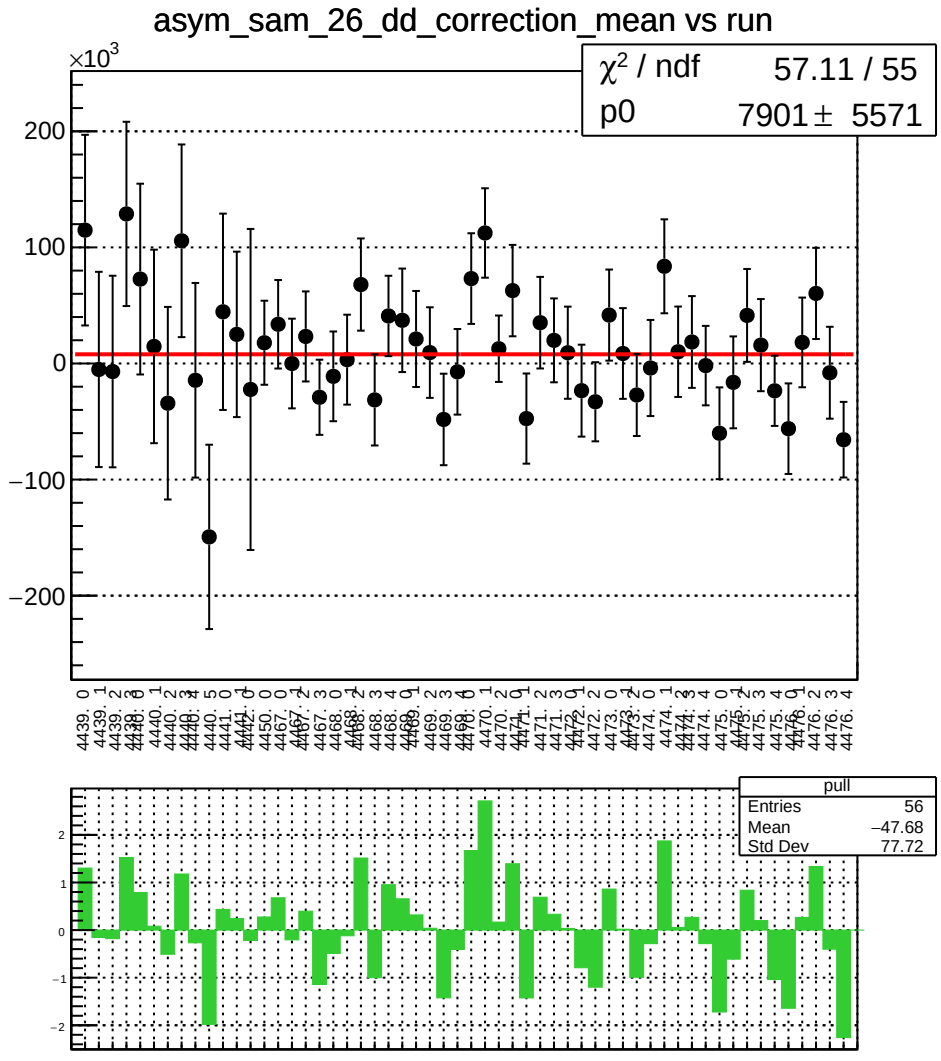

pull1D
Entries 56
Mean −0.02684
Std Dev 1.007

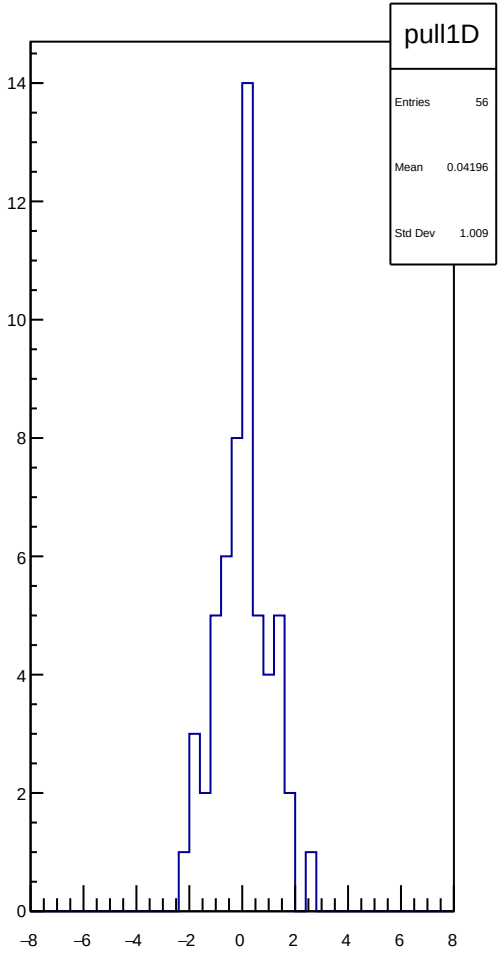

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1.486e+05 / 55
p0 307.7 ± 0.3179
1800
1600
1400
1200
1000
800
600
400
200

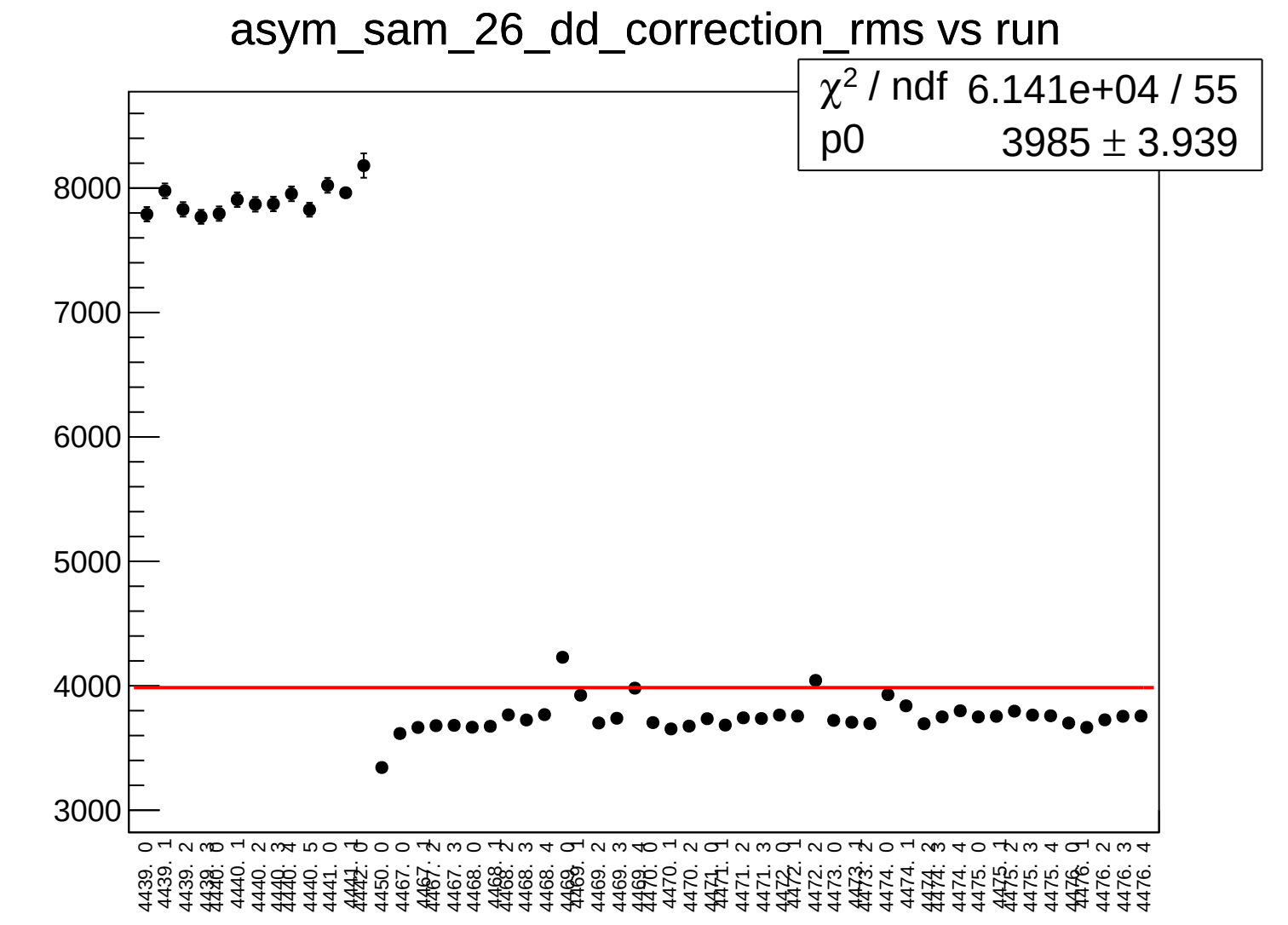

reg_asym_sam_26_dd_mean vs run
χ² / ndf 53.46 / 55
p0 −2825 ± 1637
pull
Entries 56
Mean −122.5
Std Dev 154

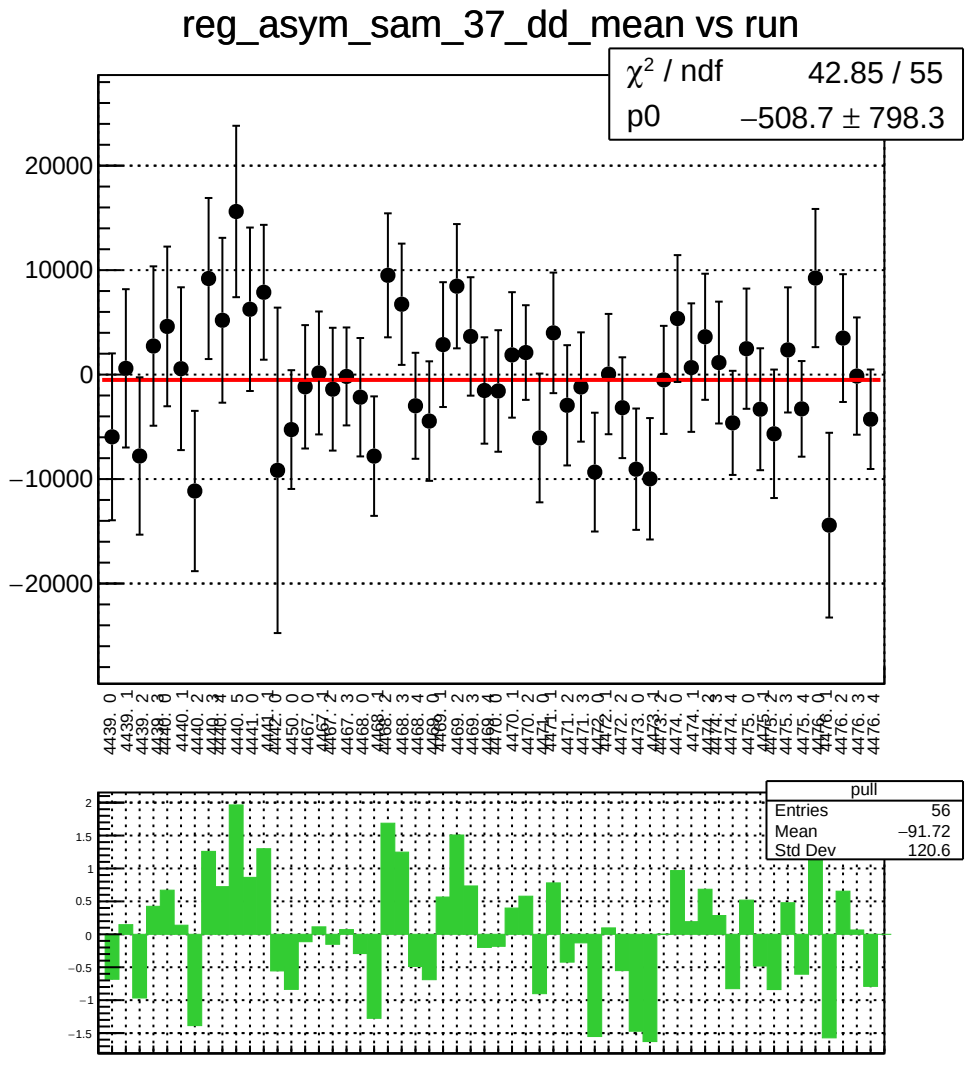

pull1D
Entries 56
Mean −0.01308
Std Dev 0.977

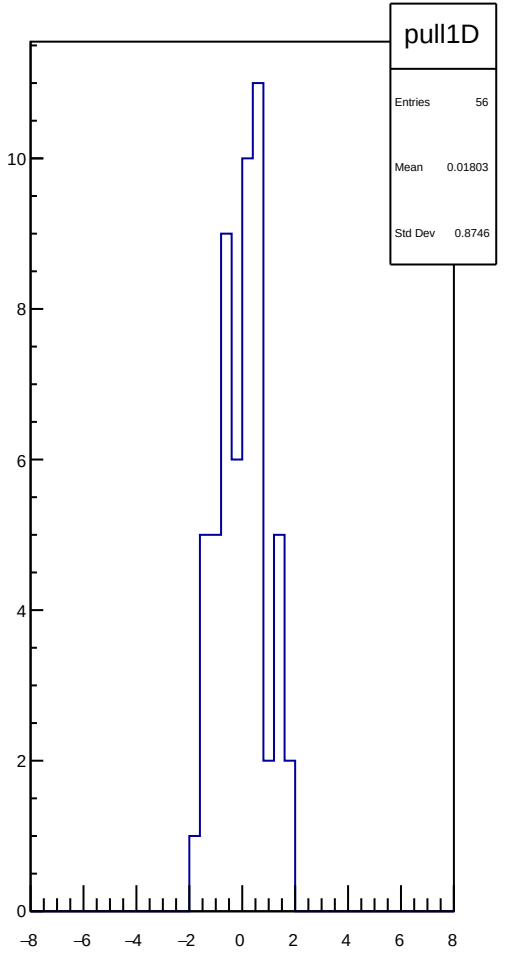

reg_asym_sam_26_dd_rms vs run
χ² / ndf 5063 / 55
p0 1203 ± 1.158
1500
1450
1400
1350
1300
1250
1200
1150
1100

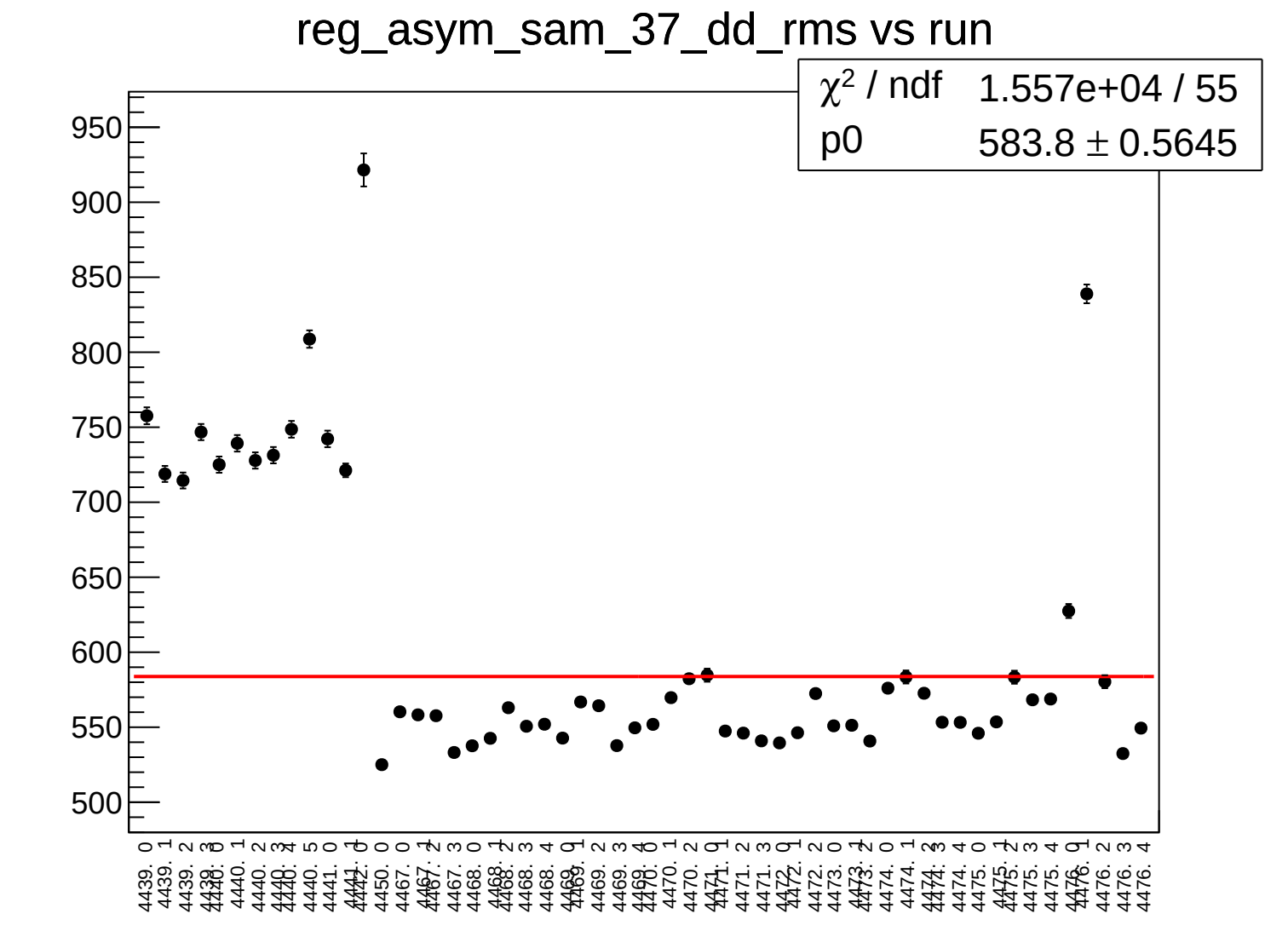

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 57.11 / 55
p0 7901 ± 5571
200
100
0
−100
−200
pull
Entries 56
Mean −47.68
Std Dev 77.72
2
1
0
−1
−2

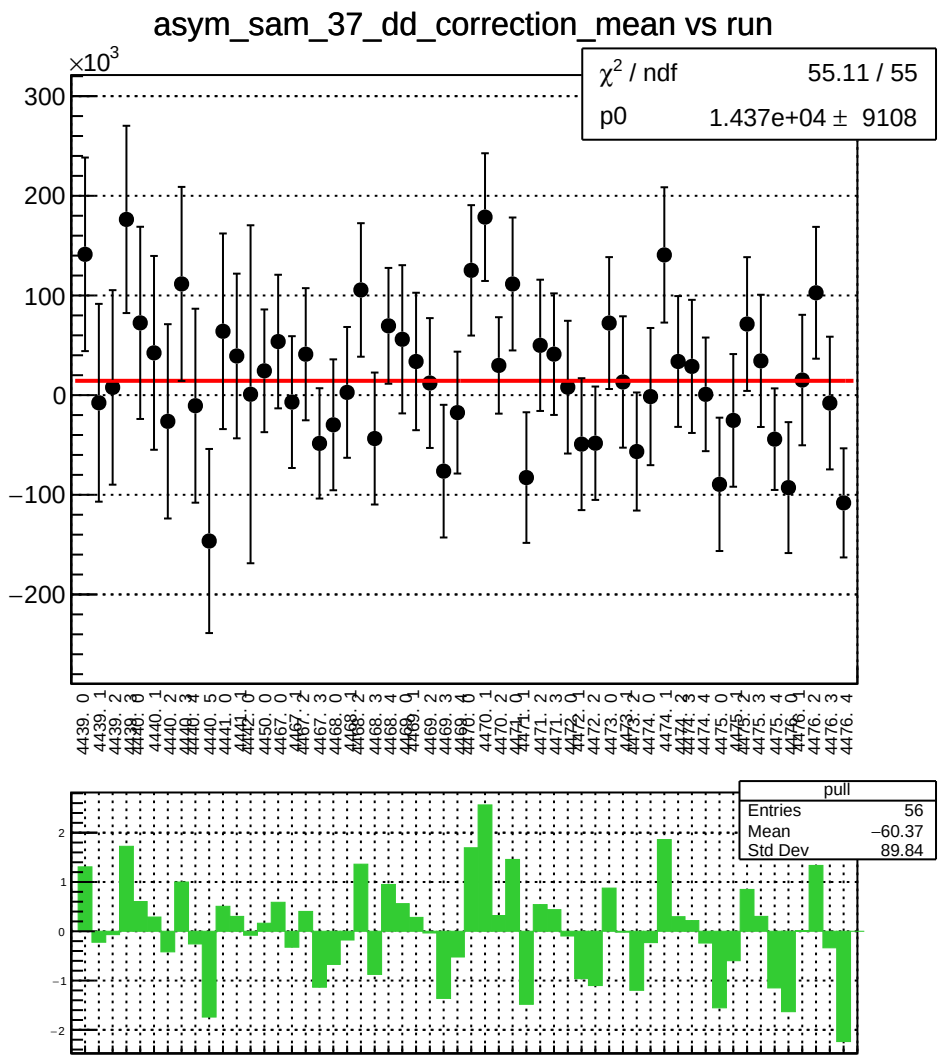

pull1D
Entries 56
Mean 0.04196
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

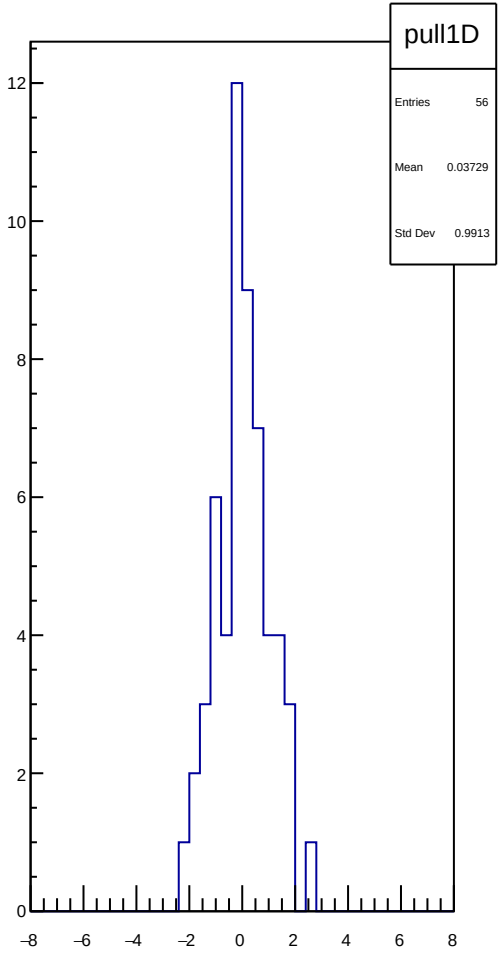

asym_sam_26_dd_correction_rms vs run
χ² / ndf 6.141e+04 / 55
p0 3985 ± 3.939
8000
7000
6000
5000
4000
3000

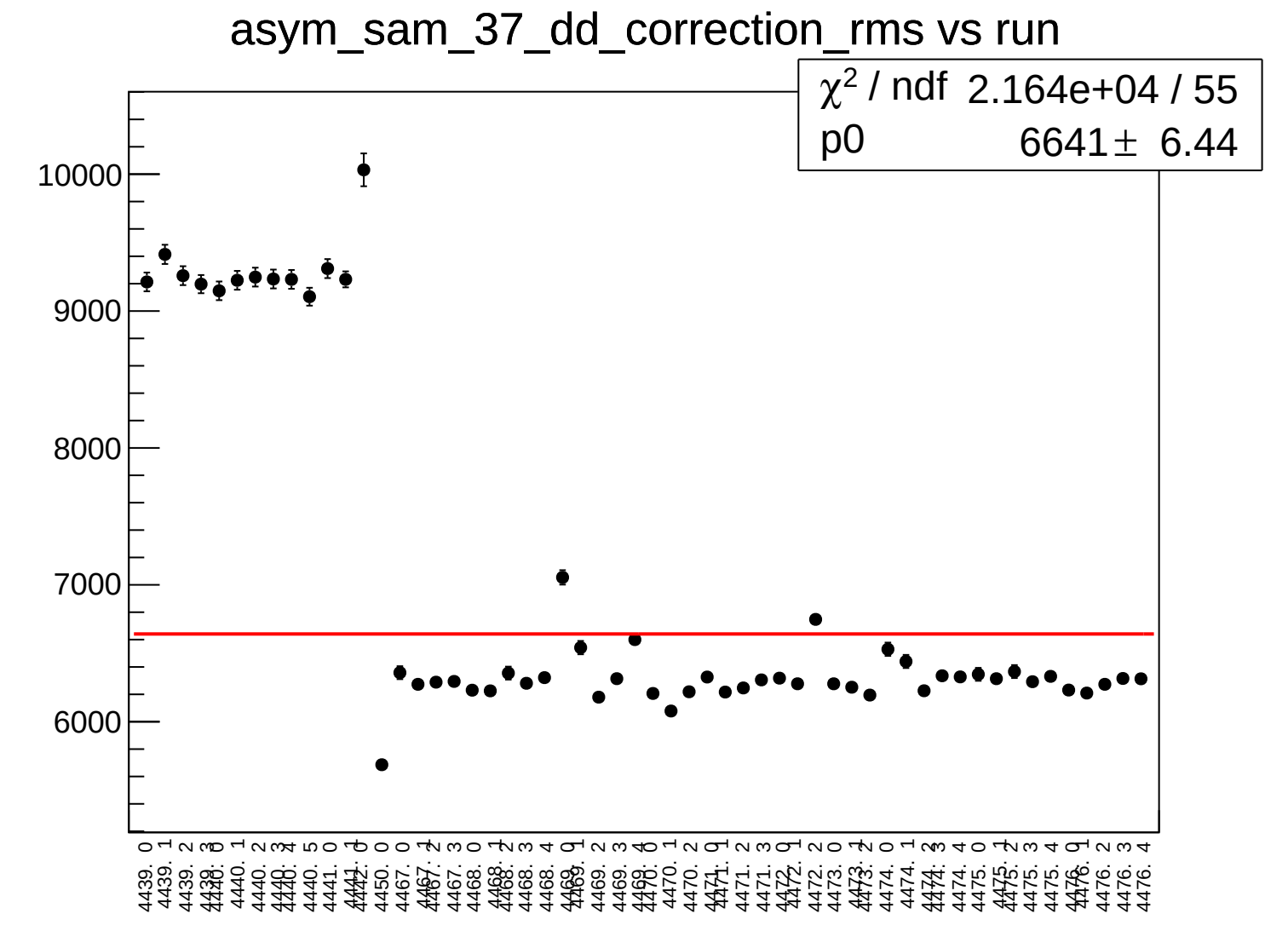

reg_asym_sam_37_dd_mean vs run
χ² / ndf 42.85 / 55
p0 −508.7 ± 798.3
20000
10000
0
−10000
−20000
pull
Entries 56
Mean −91.72
Std Dev 120.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

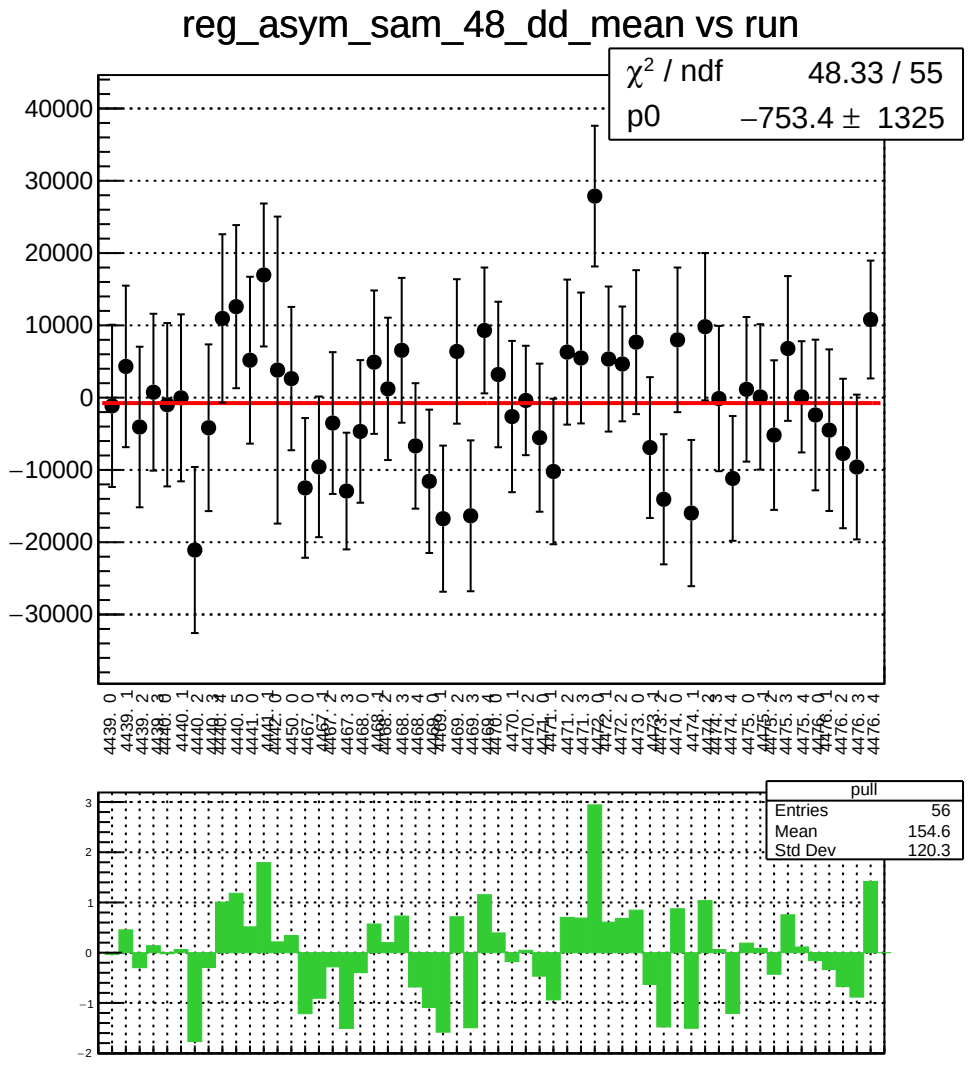

pull1D
Entries 56
Mean 0.01803
Std Dev 0.8746
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

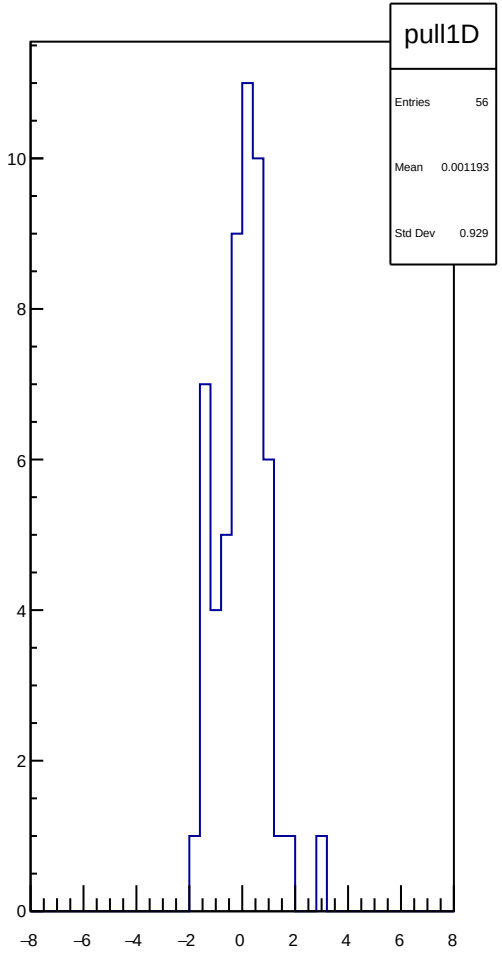

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.557e+04 / 55
p0 583.8 ± 0.5645
950
900
850
800
750
700
650
600
550
500
4439. 0
4439. 1
4439. 2
4440. 1
4440. 2
4440. 5
4441. 0
4450. 0
4467. 0
4467. 2
4467. 3
4468. 0
4468. 3
4468. 4
4469. 2
4469. 3
4470. 1
4470. 2
4471. 2
4471. 3
4472. 2
4473. 0
4474. 0
4474. 1
4475. 2
4475. 3
4475. 4
4476. 2
4476. 3
4476. 4

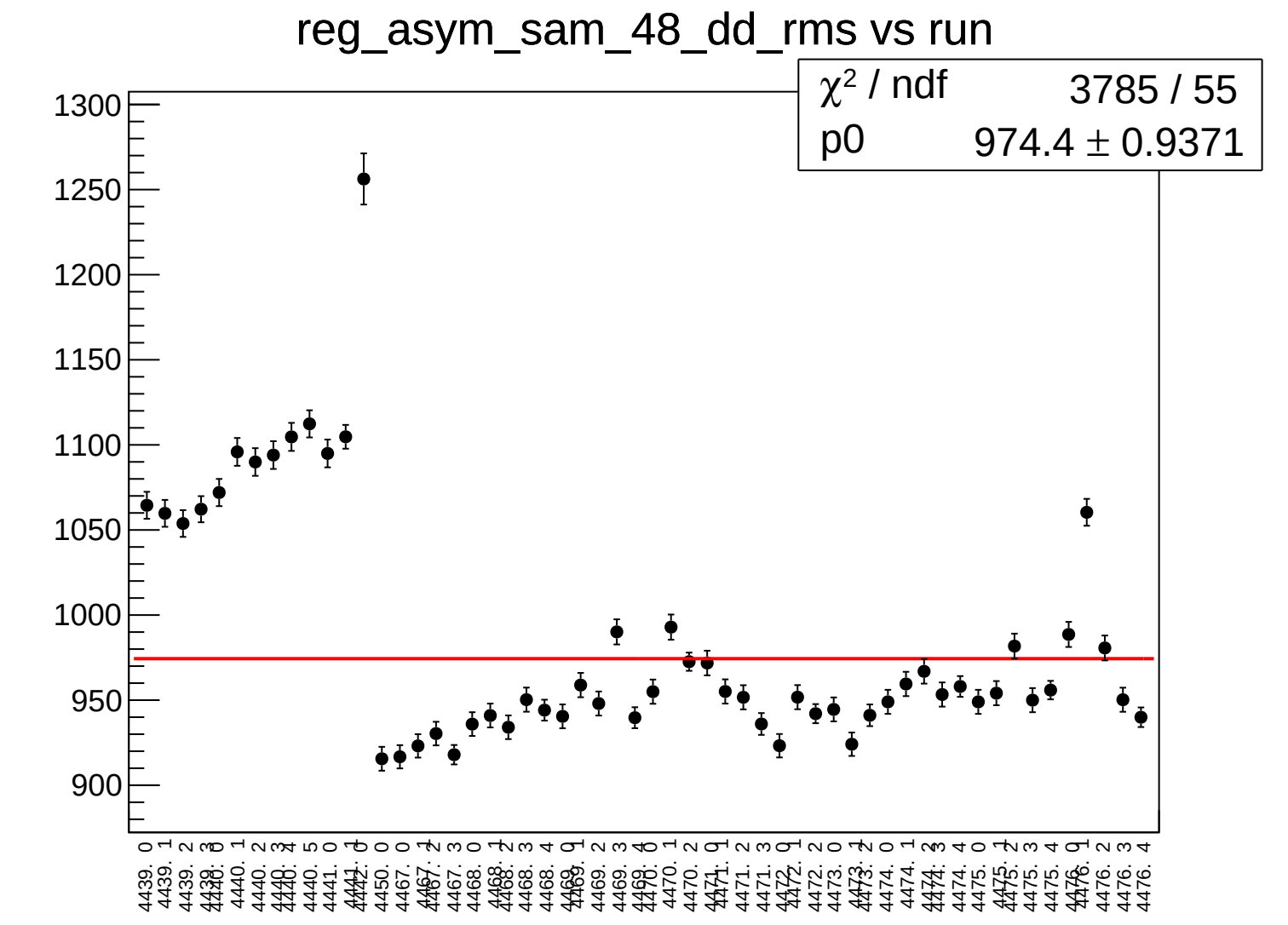

asym_sam_37_dd_correction_mean vs run
×10^3
χ² / ndf 55.11 / 55
p0 1.437e+04 ± 9108
pull
Entries 56
Mean −60.37
Std Dev 89.84

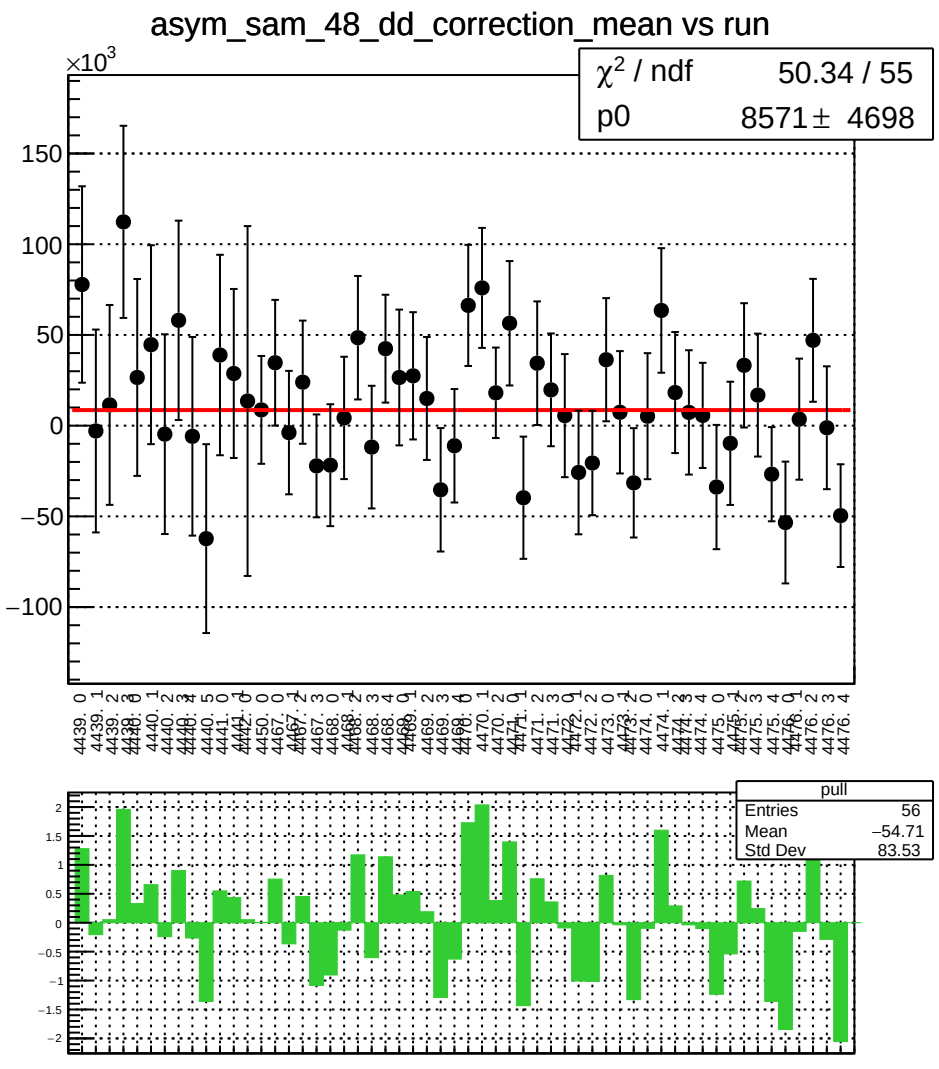

pull1D
Entries 56
Mean 0.03729
Std Dev 0.9913

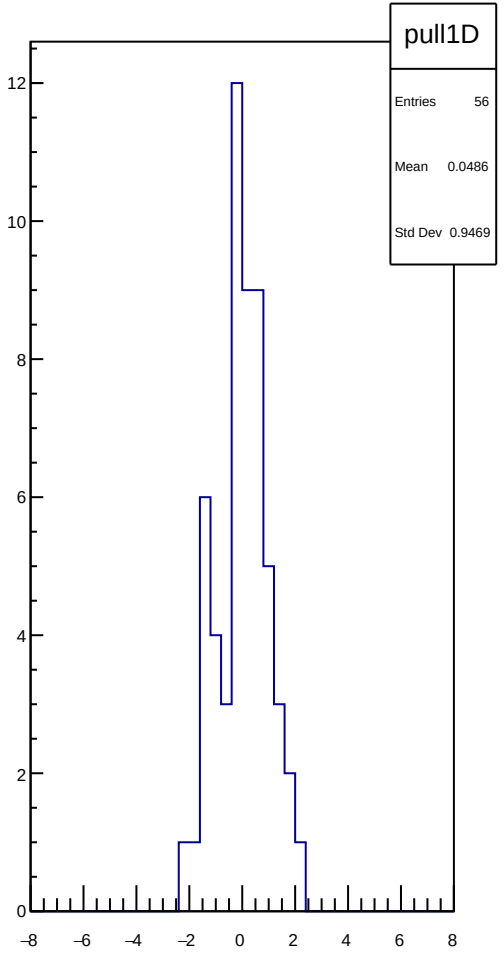

asym_sam_37_dd_correction_rms vs run
χ² / ndf 2.164e+04 / 55
p0 6641 ± 6.44
10000
9000
8000
7000
6000

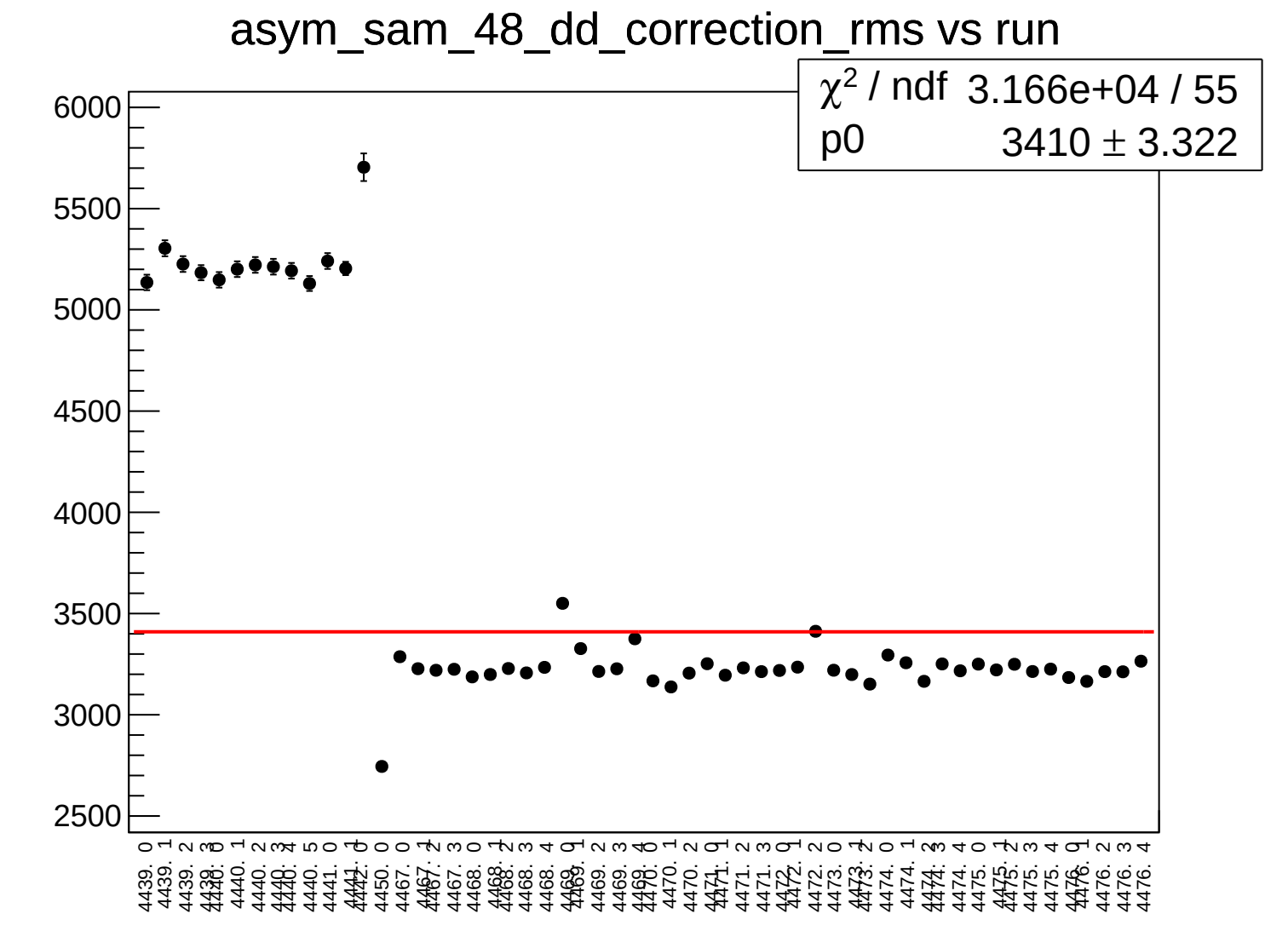

reg_asym_sam_48_dd_mean vs run
χ² / ndf 48.33 / 55
p0 −753.4 ± 1325
pull
Entries 56
Mean 154.6
Std Dev 120.3

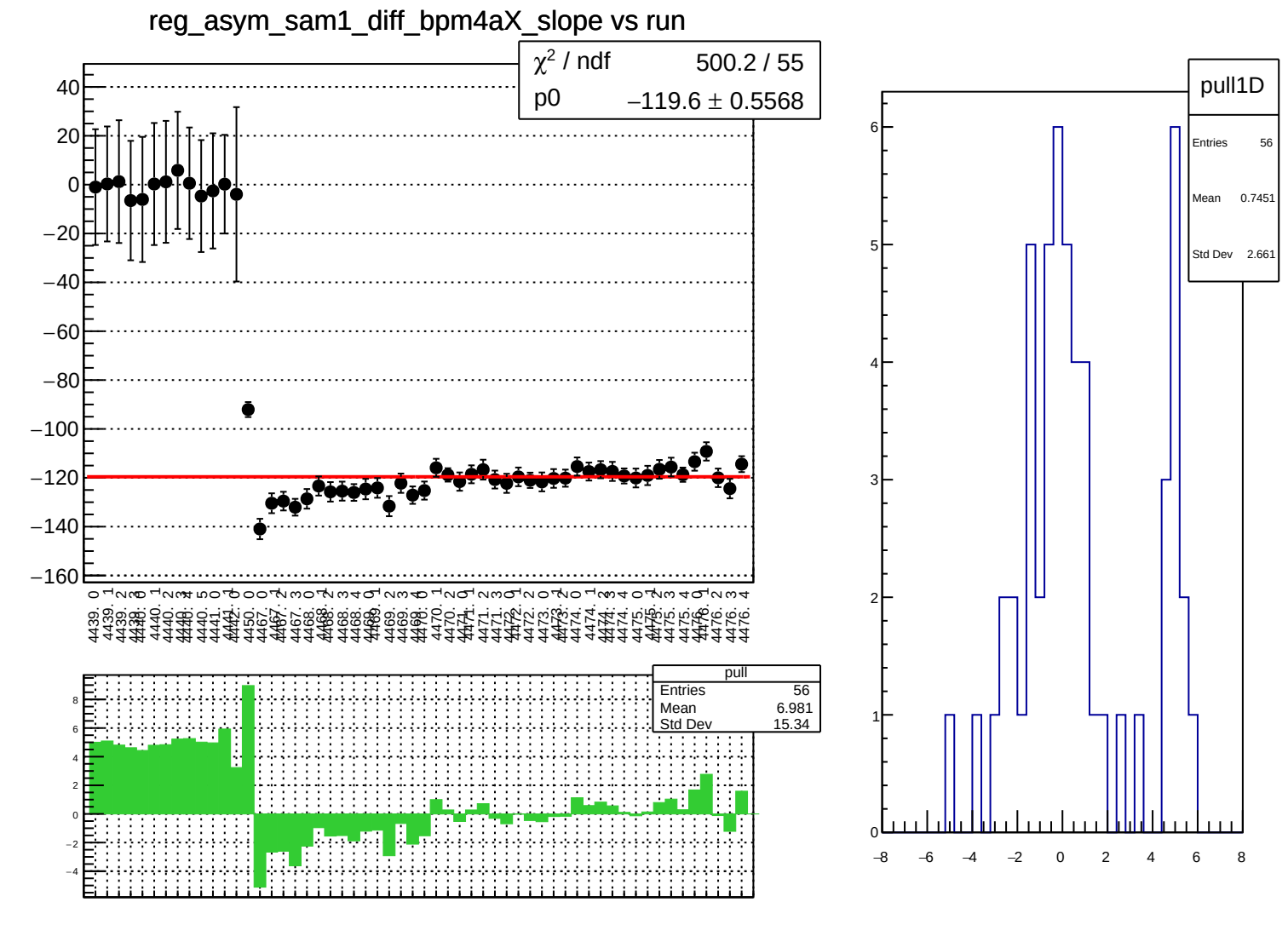

pull1D
Entries 56
Mean 0.001193
Std Dev 0.929

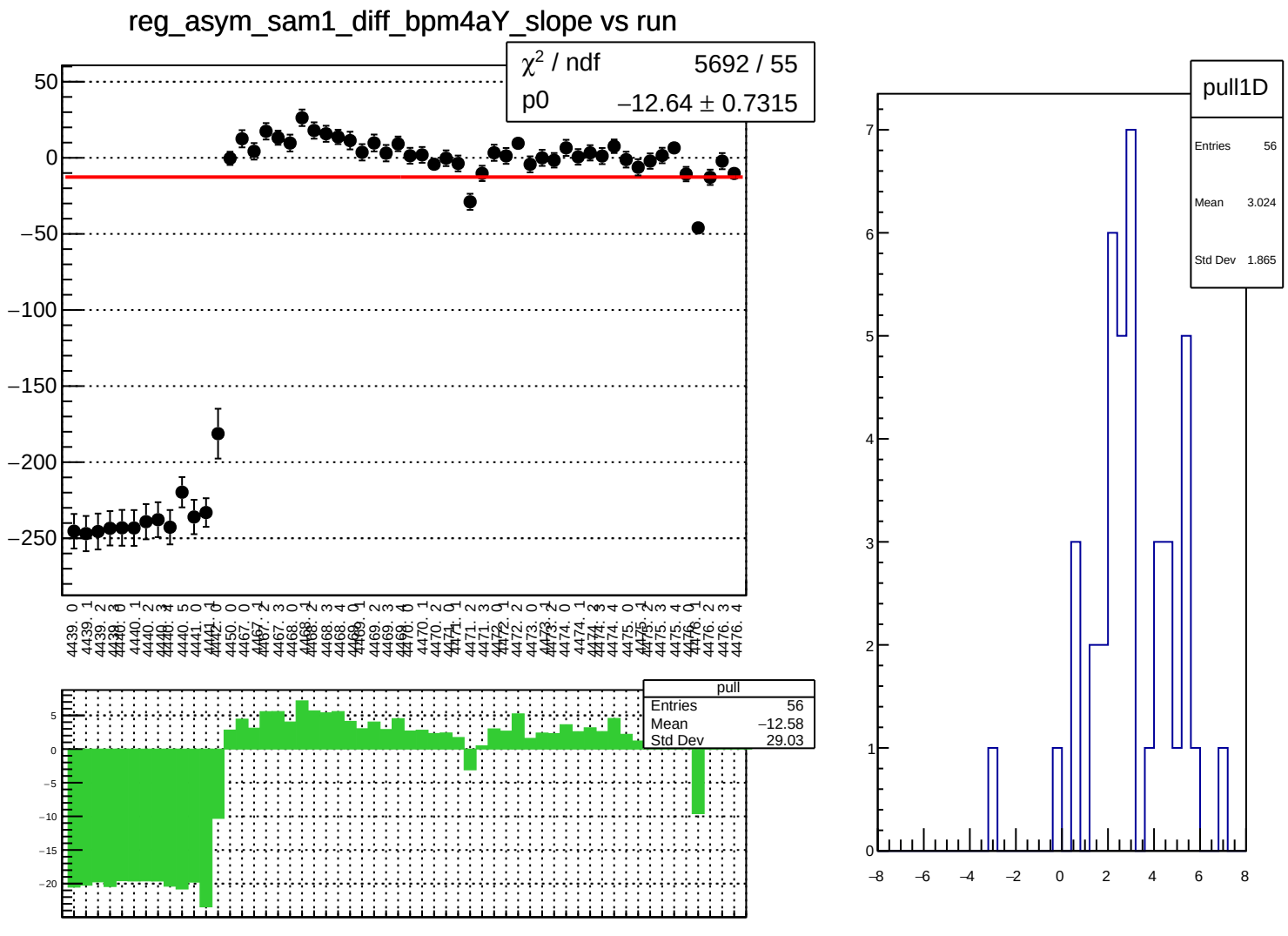

reg_asym_sam_48_dd_rms vs run
χ² / ndf 3785 / 55
p0 974.4 ± 0.9371
1300
1250
1200
1150
1100
1050
1000
950
900
4439. 0
4439. 1
4439. 2
4439. 3
4440. 0
4440. 1
4440. 2
4440. 3
4440. 4
4440. 5
4441. 0
4441. 1
4442. 0
4450. 0
4467. 0
4467. 1
4467. 2
4467. 3
4468. 0
4468. 1
4468. 2
4468. 3
4468. 4
4469. 0
4469. 1
4469. 2
4469. 3
4469. 4
4470. 0
4470. 1
4470. 2
4471. 0
4471. 1
4471. 2
4471. 3
4472. 0
4472. 1
4472. 2
4473. 0
4473. 1
4473. 2
4474. 0
4474. 1
4474. 2
4474. 3
4474. 4
4475. 0
4475. 1
4475. 2
4475. 3
4475. 4
4476. 0
4476. 1
4476. 2
4476. 3
4476. 4

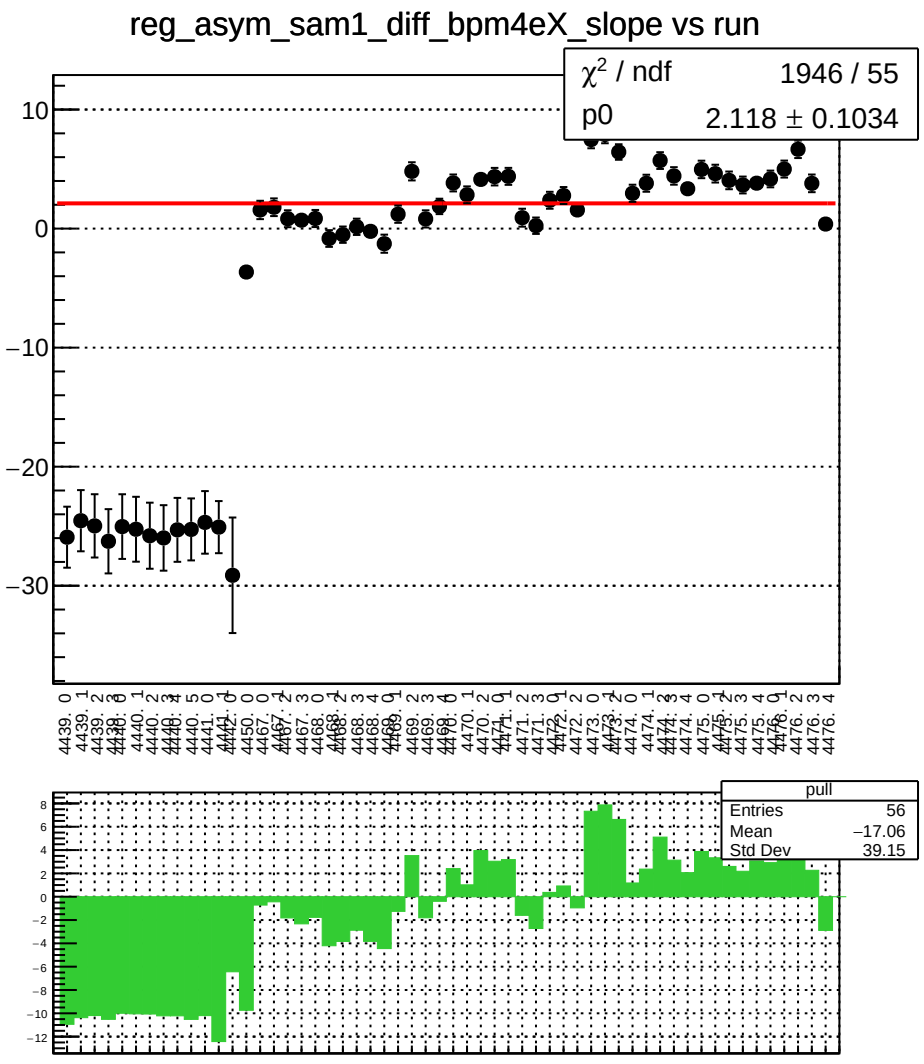

asym_sam_48_dd_correction_mean vs run
×10^3
χ^2 / ndf 50.34 / 55
p0 8571 ± 4698
150
100
50
0
−50
−100
pull
Entries 56
Mean −54.71
Std Dev 83.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

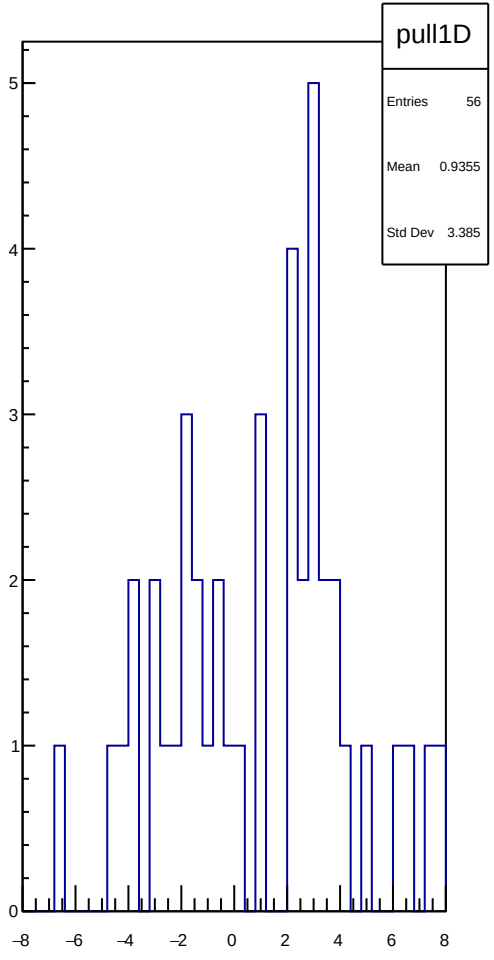

pull1D
Entries 56
Mean 0.0486
Std Dev 0.9469
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

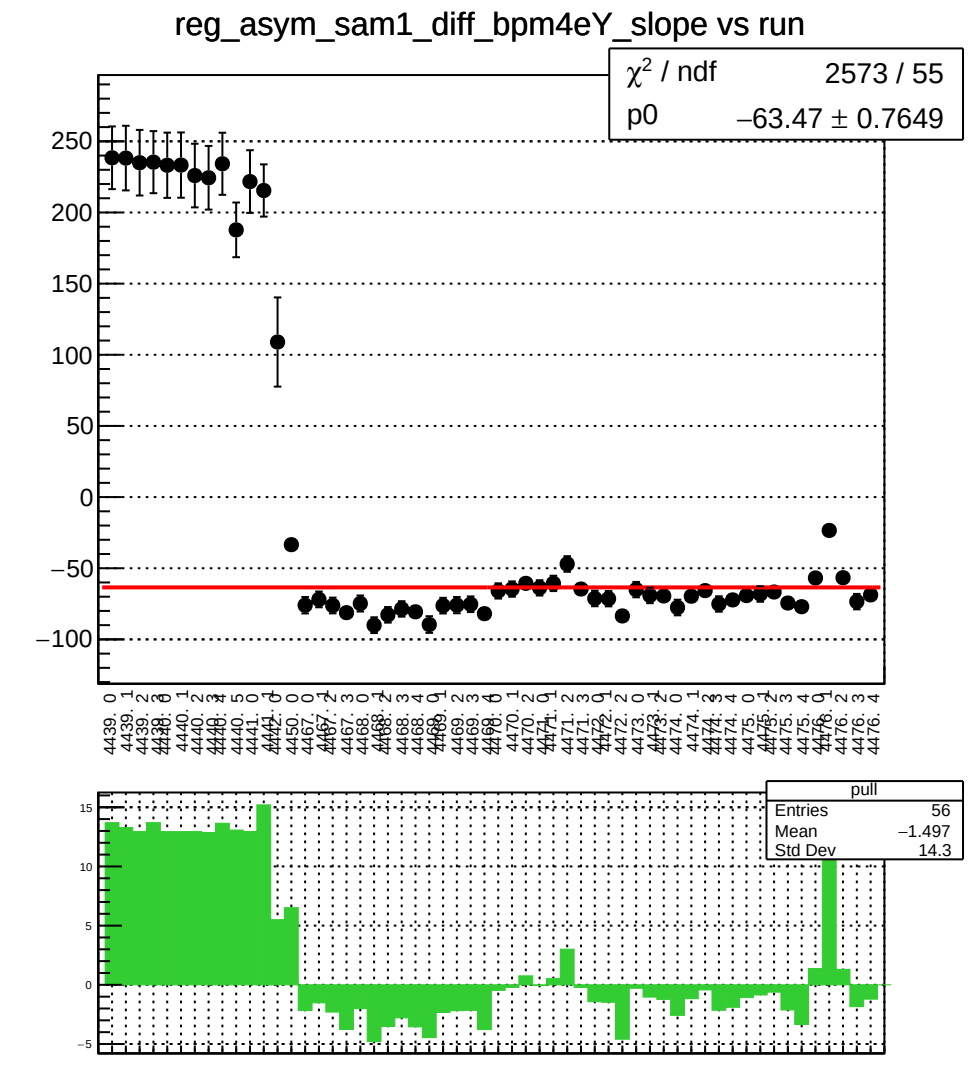

asym_sam_48_dd_correction_rms vs run
χ² / ndf 3.166e+04 / 55
p0 3410 ± 3.322
6000
5500
5000
4500
4000
3500
3000
2500

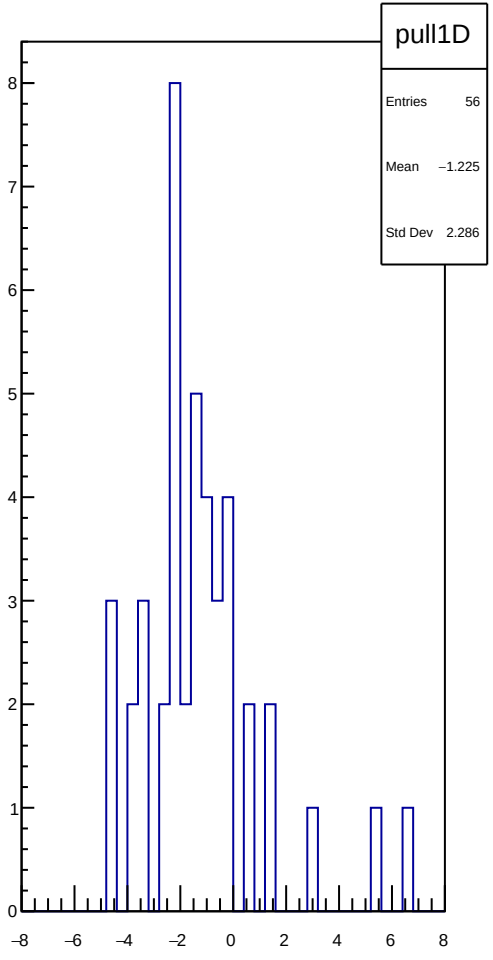

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 500.2 / 55
p0 −119.6 ± 0.5568
pull
Entries 56
Mean 6.981
Std Dev 15.34
pull1D
Entries 56
Mean 0.7451
Std Dev 2.661

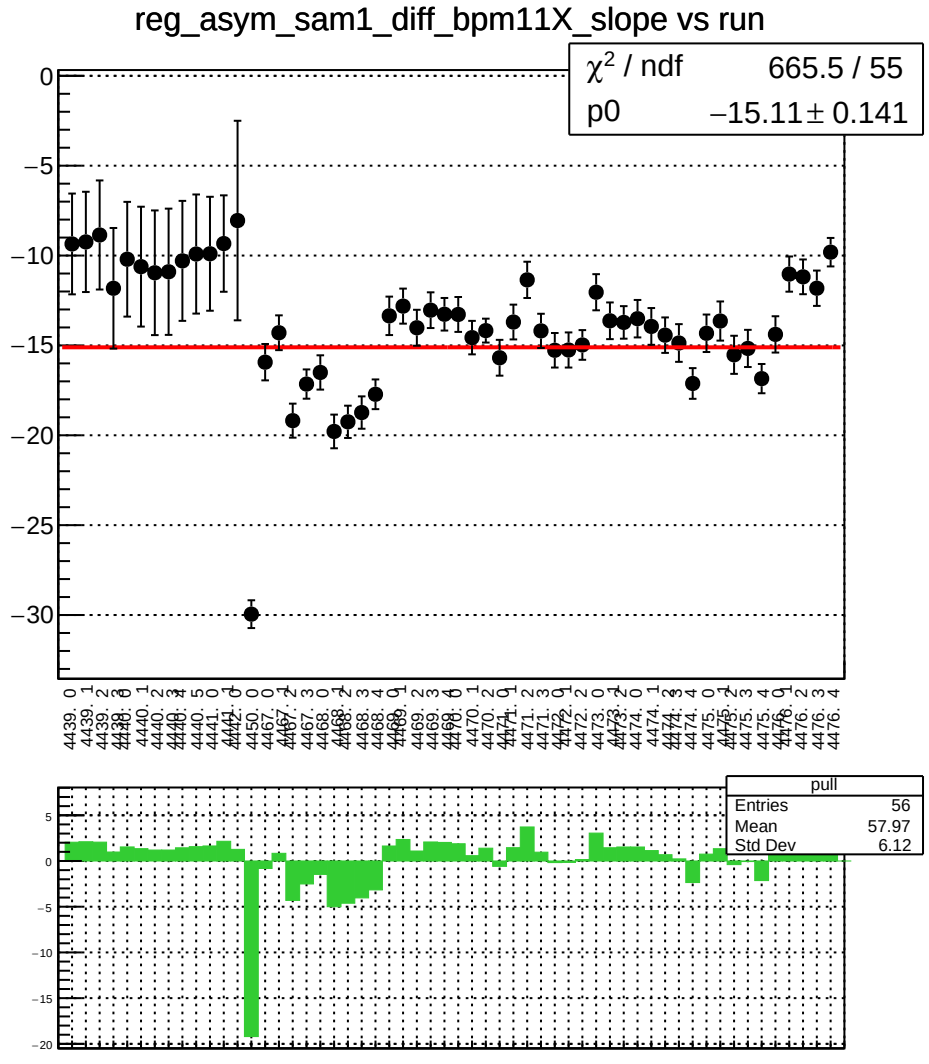

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 5692 / 55
p0 −12.64 ± 0.7315
pull
Entries 56
Mean −12.58
Std Dev 29.03
pull1D
Entries 56
Mean 3.024
Std Dev 1.865

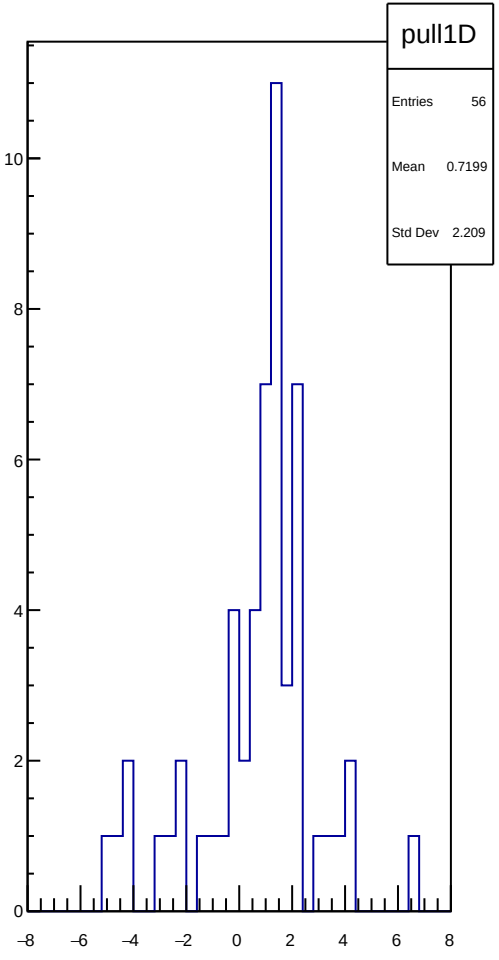

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 1946 / 55
p0 2.118 ± 0.1034
pull
Entries 56
Mean −17.06
Std Dev 39.15

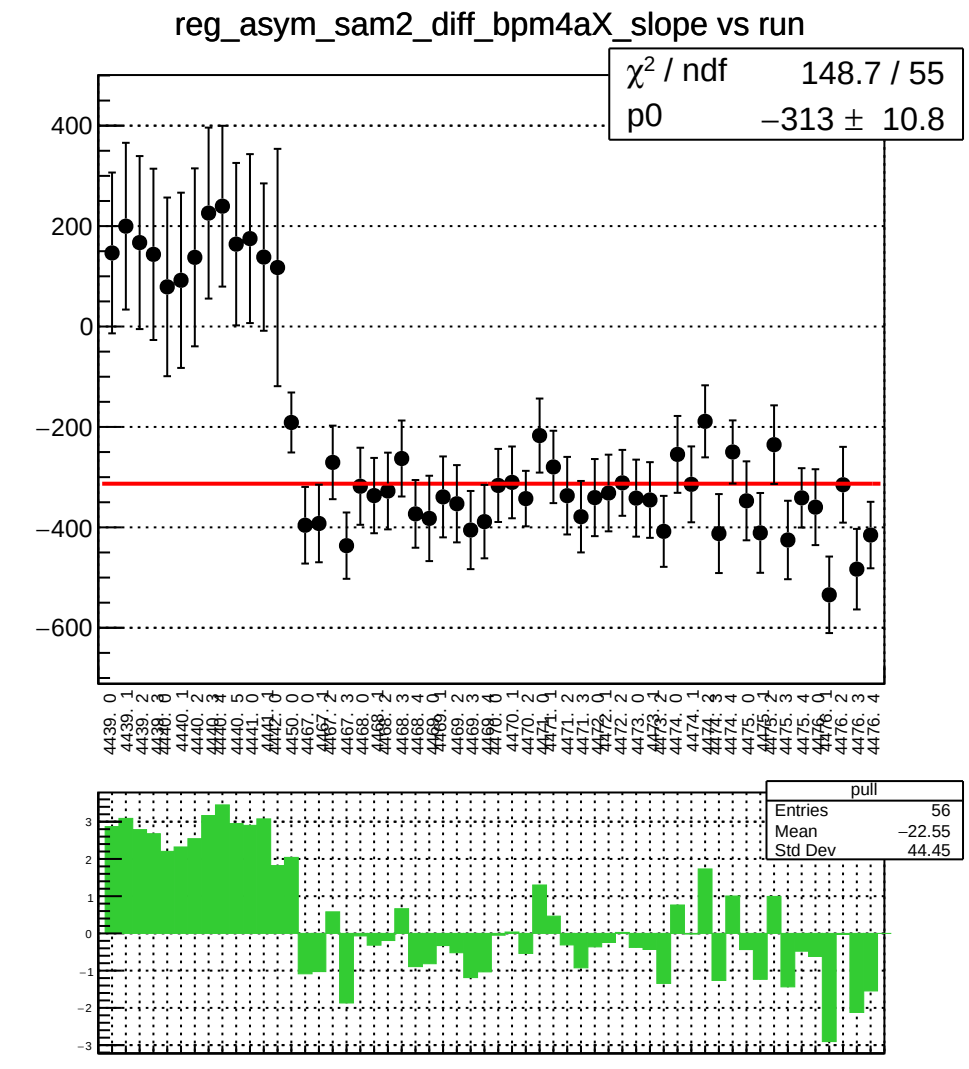

pull1D
Entries 56
Mean 0.9355
Std Dev 3.385

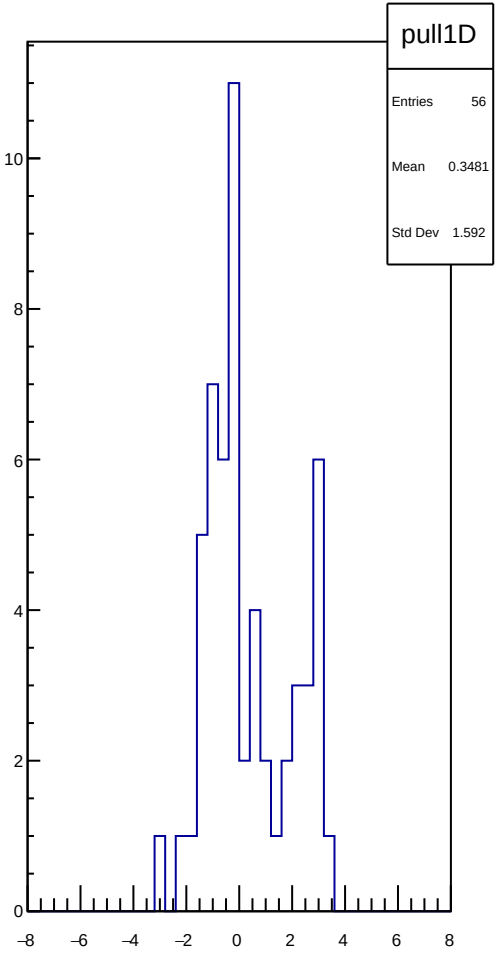

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 2573 / 55
p0 −63.47 ± 0.7649
pull
Entries 56
Mean −1.497
Std Dev 14.3

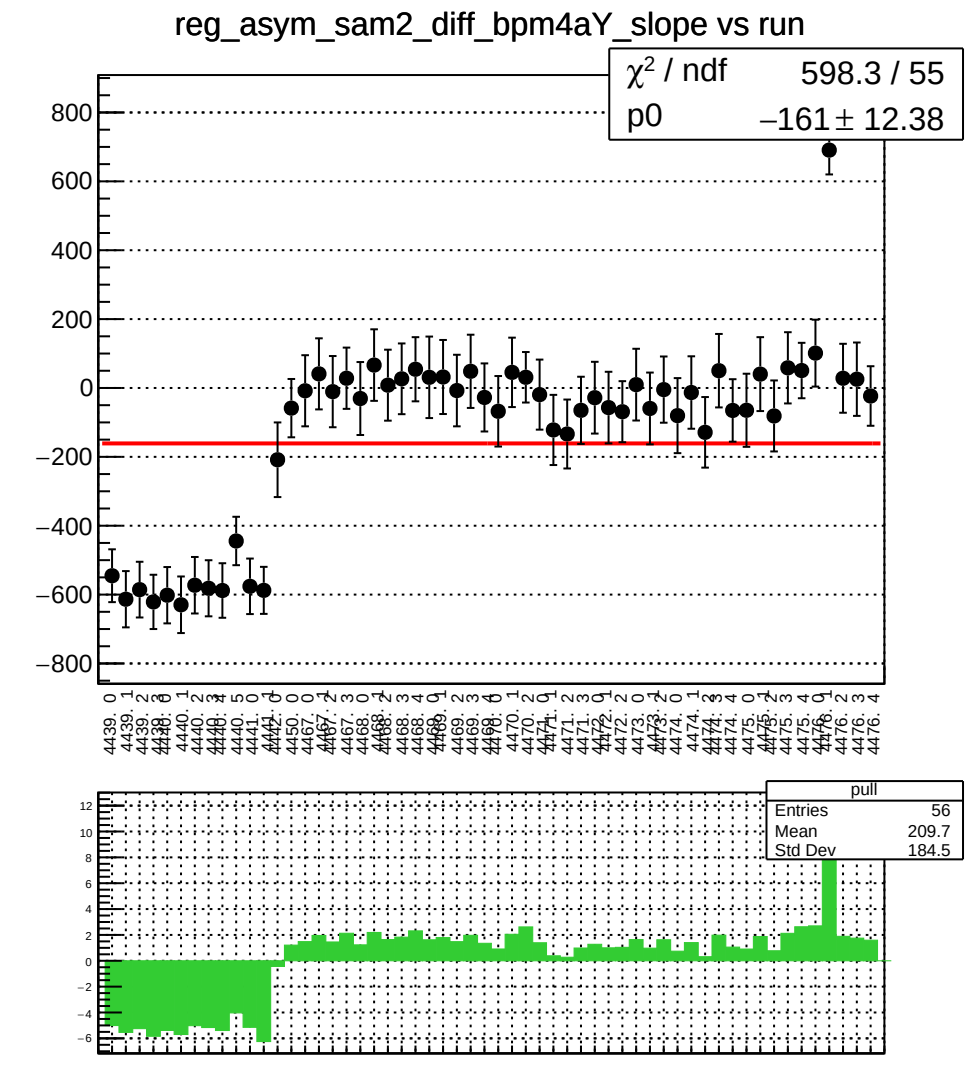

pull1D
Entries 56
Mean −1.225
Std Dev 2.286

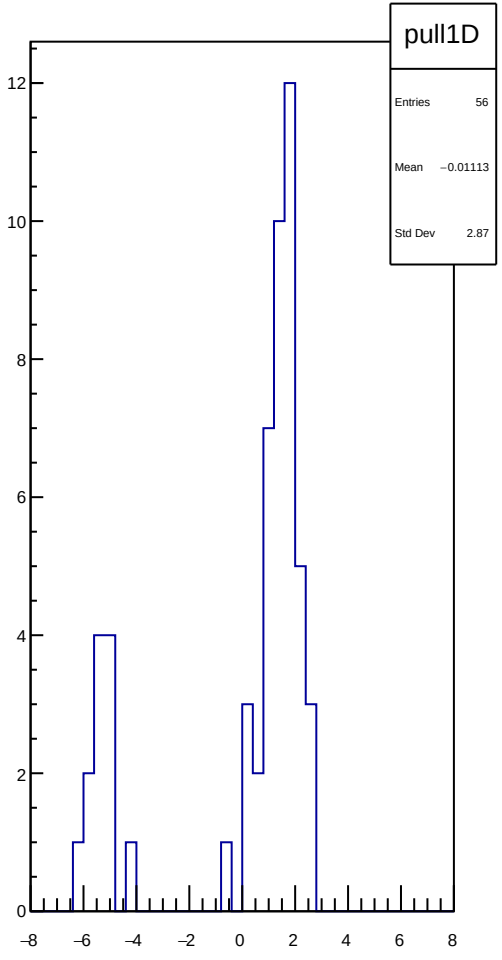

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 665.5 / 55
p0 −15.11 ± 0.141
pull
Entries 56
Mean 57.97
Std Dev 6.12

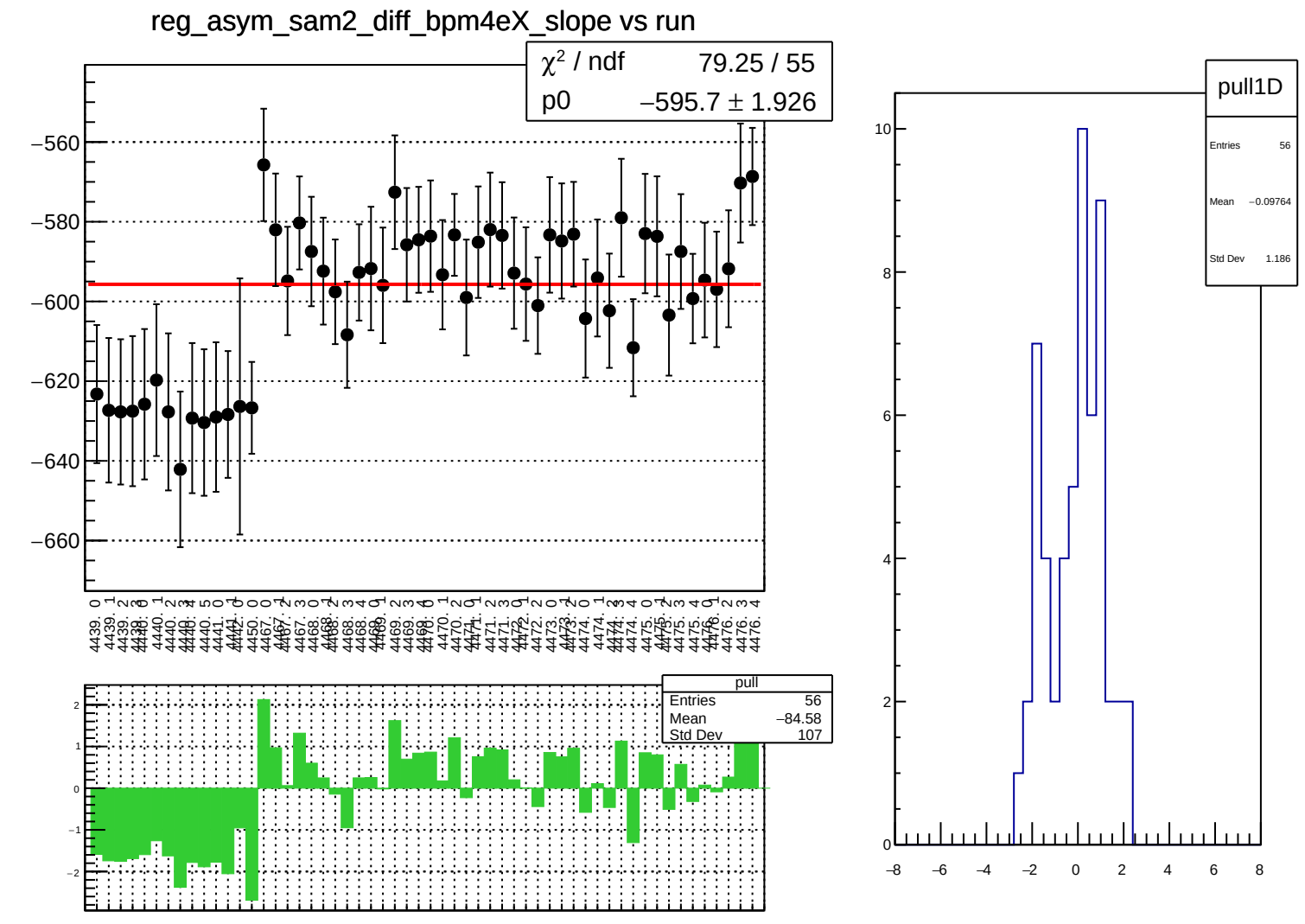

pull1D
Entries 56
Mean 0.7199
Std Dev 2.209

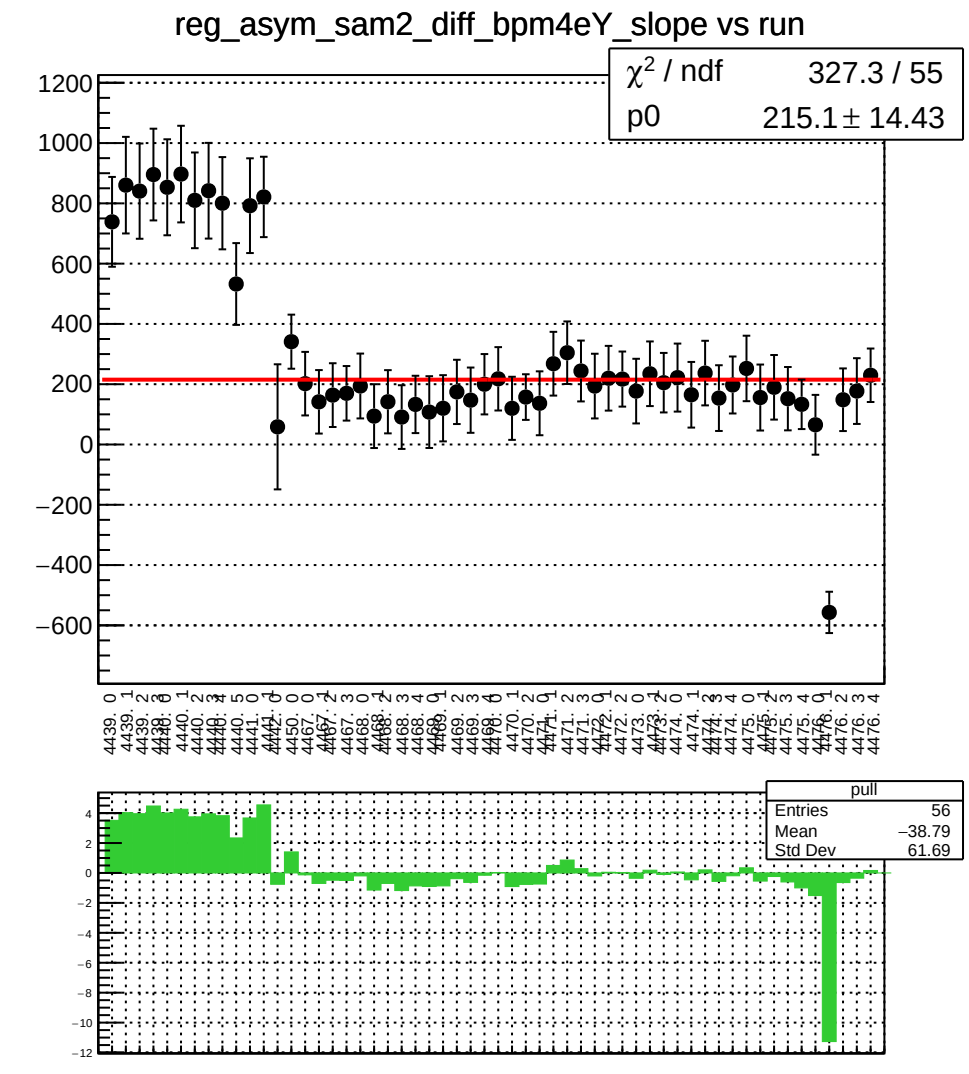

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 148.7 / 55
p0 −313 ± 10.8
400
200
0
−200
−400
−600
pull
Entries 56
Mean −22.55
Std Dev 44.45
3
2
1
0
−1
−2
−3

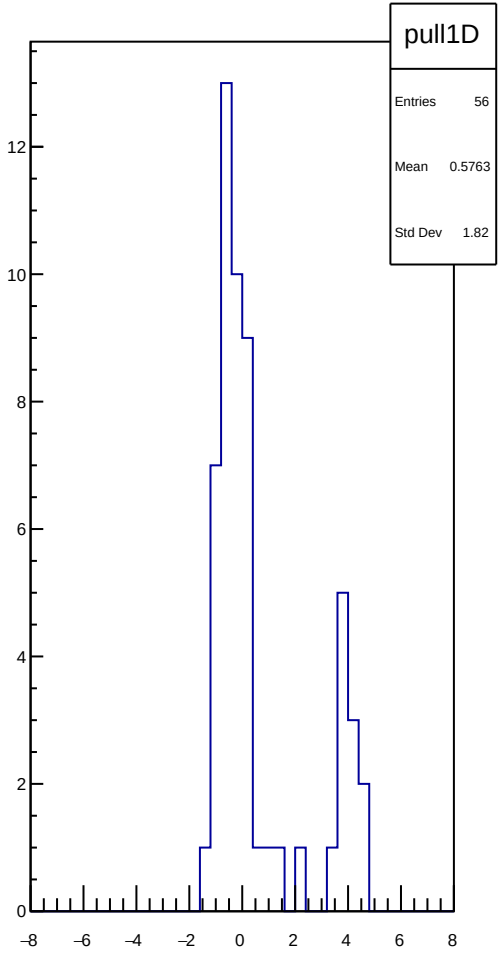

pull1D
Entries 56
Mean 0.3481
Std Dev 1.592
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

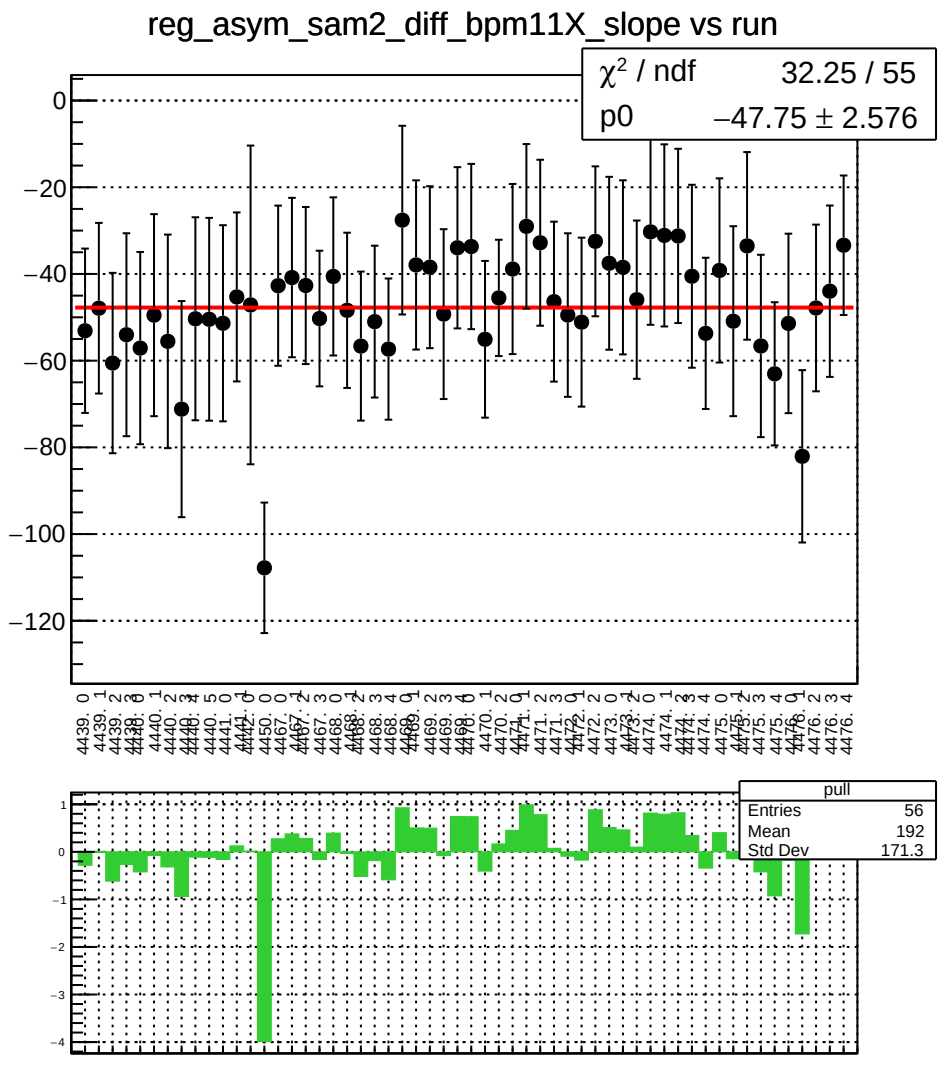

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 598.3 / 55
p0 −161 ± 12.38
pull
Entries 56
Mean 209.7
Std Dev 184.5

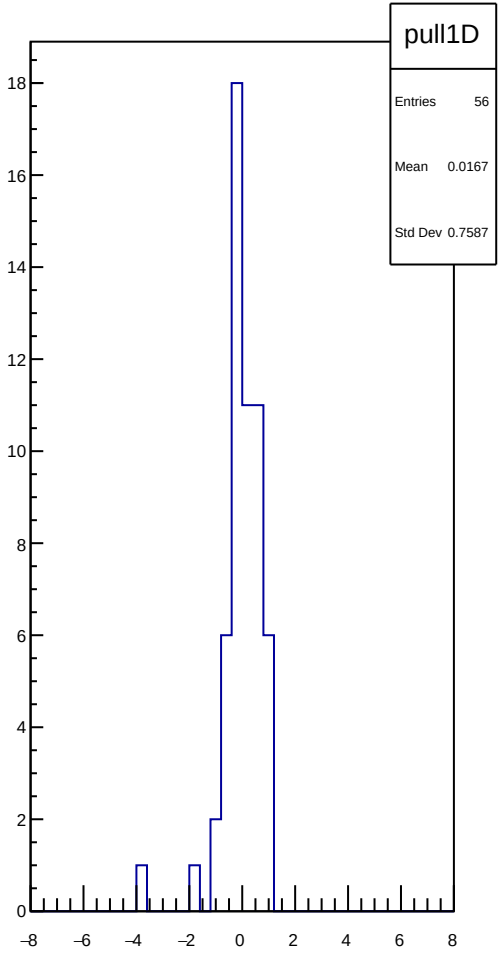

pull1D
Entries 56
Mean −0.01113
Std Dev 2.87

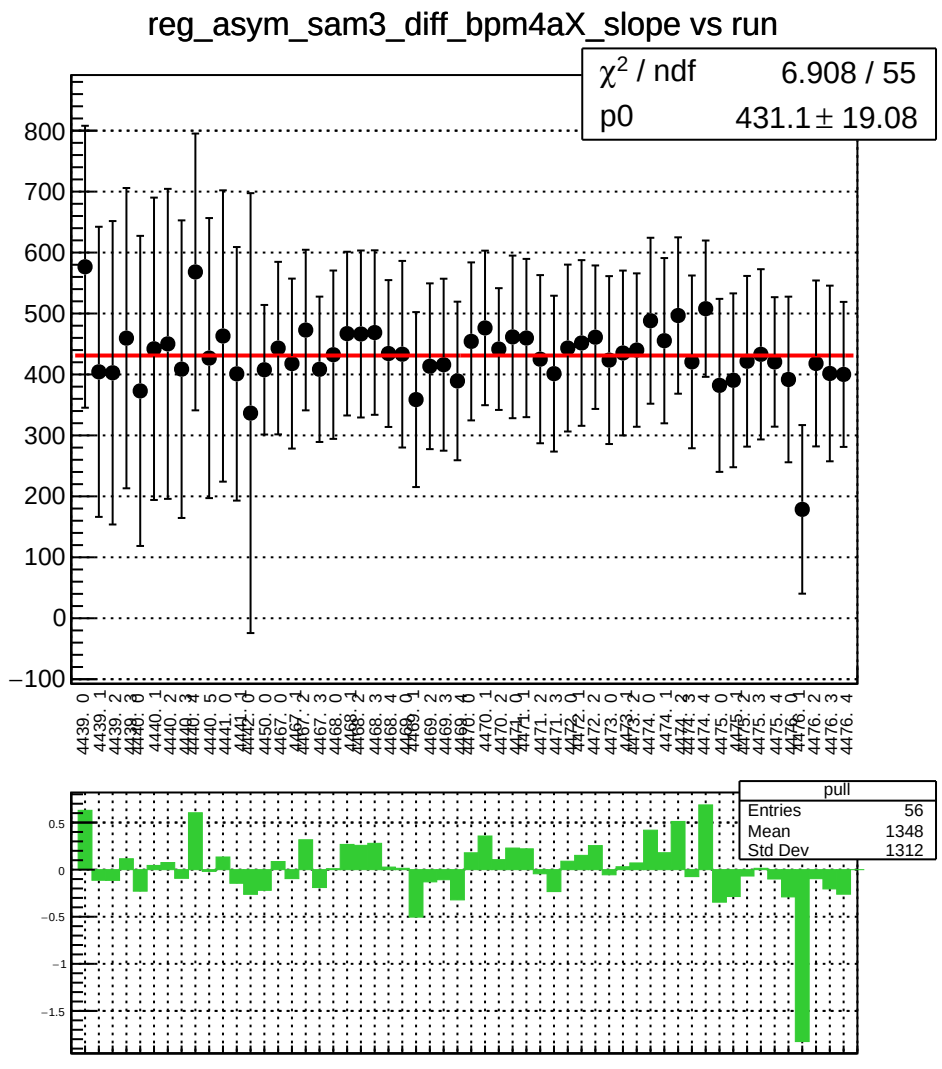

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 79.25 / 55
p0 −595.7 ± 1.926
pull
Entries 56
Mean −84.58
Std Dev 107
pull1D
Entries 56
Mean −0.09764
Std Dev 1.186

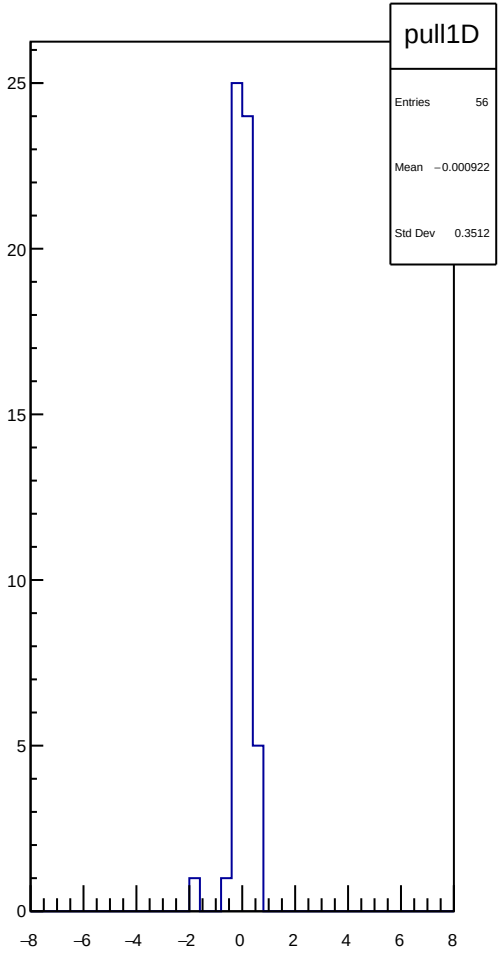

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 327.3 / 55
p0 215.1 ± 14.43
pull
Entries 56
Mean −38.79
Std Dev 61.69

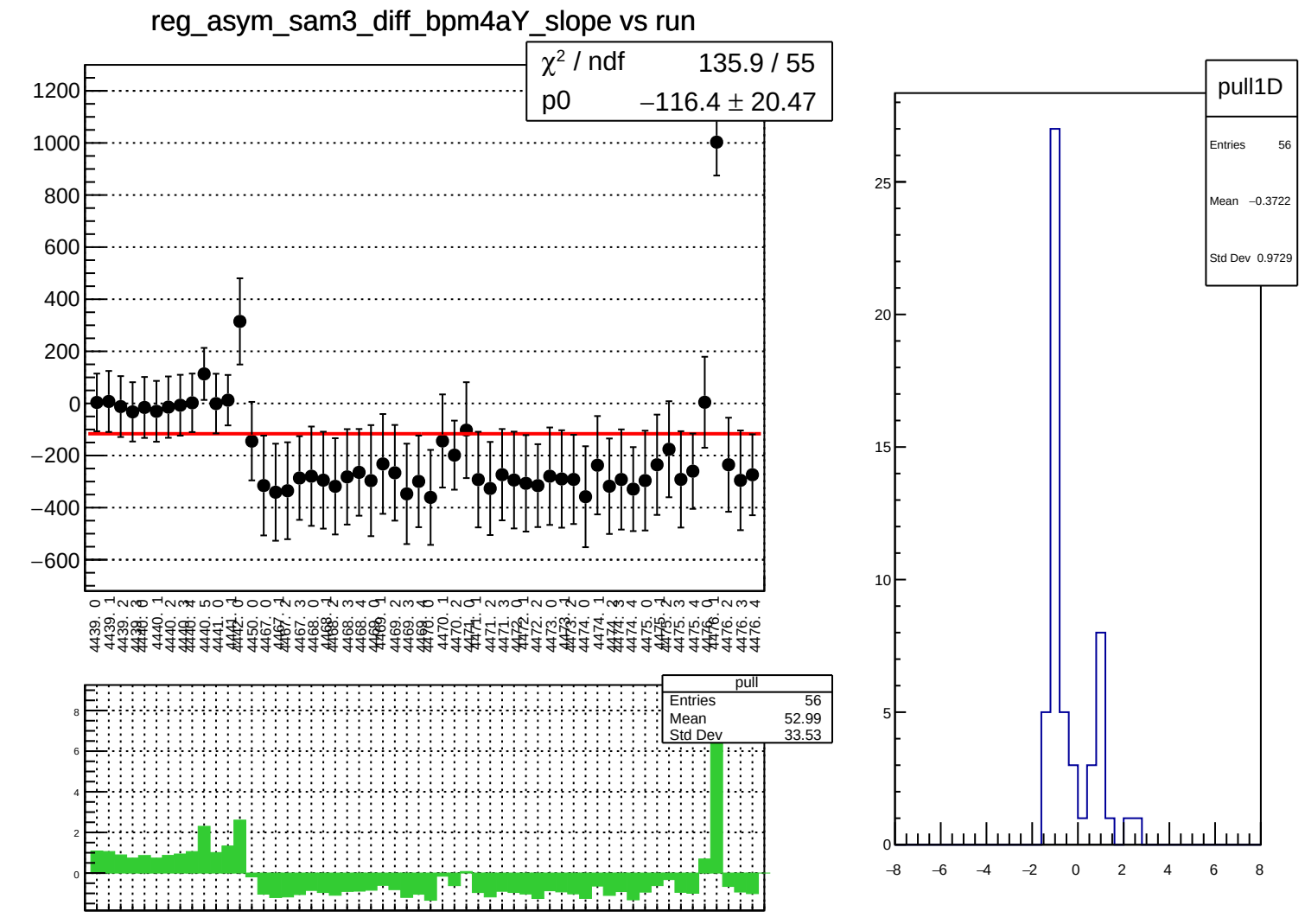

pull1D
Entries 56
Mean 0.5763
Std Dev 1.82

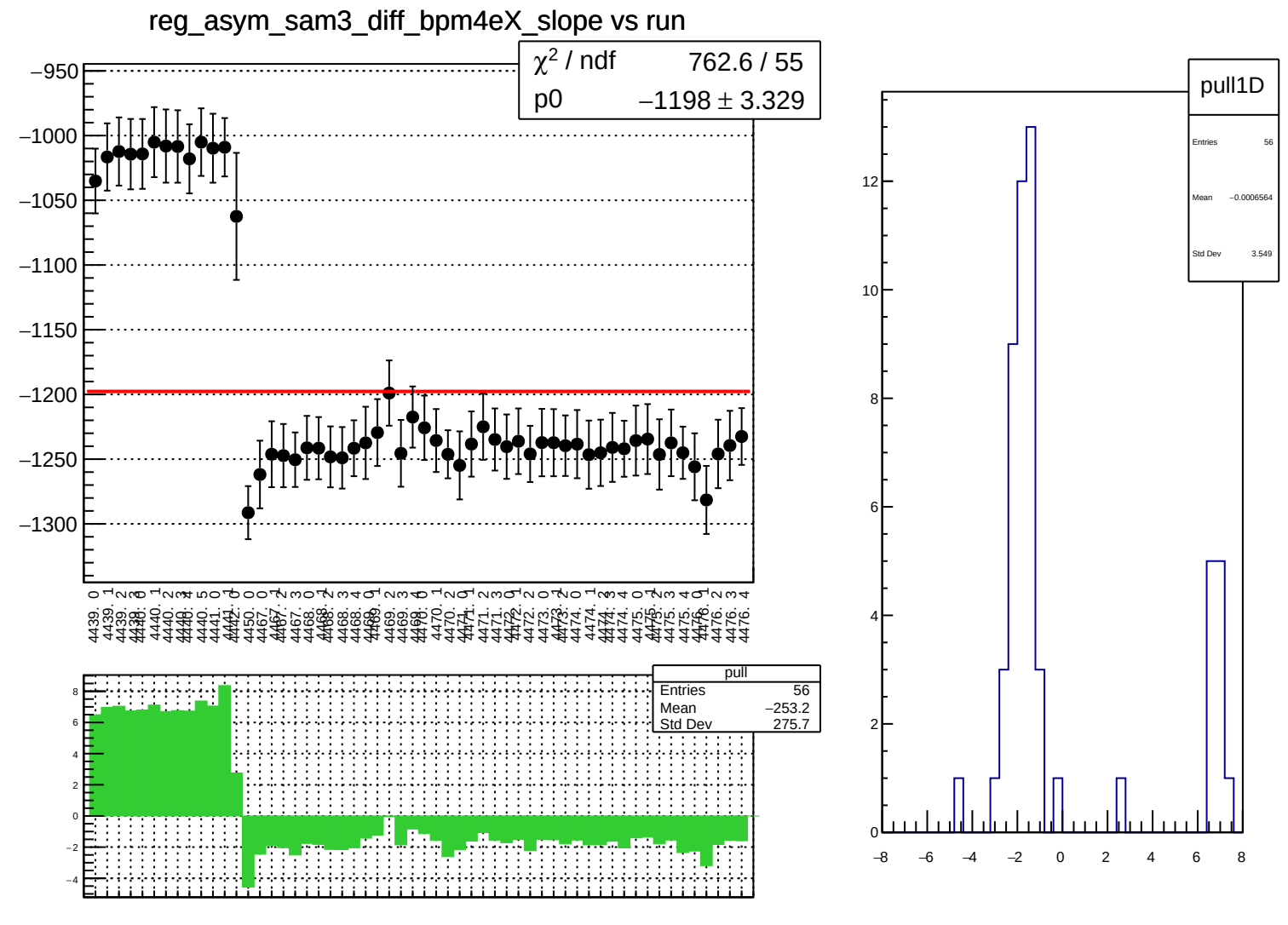

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 32.25 / 55
p0 −47.75 ± 2.576
pull
Entries 56
Mean 192
Std Dev 171.3

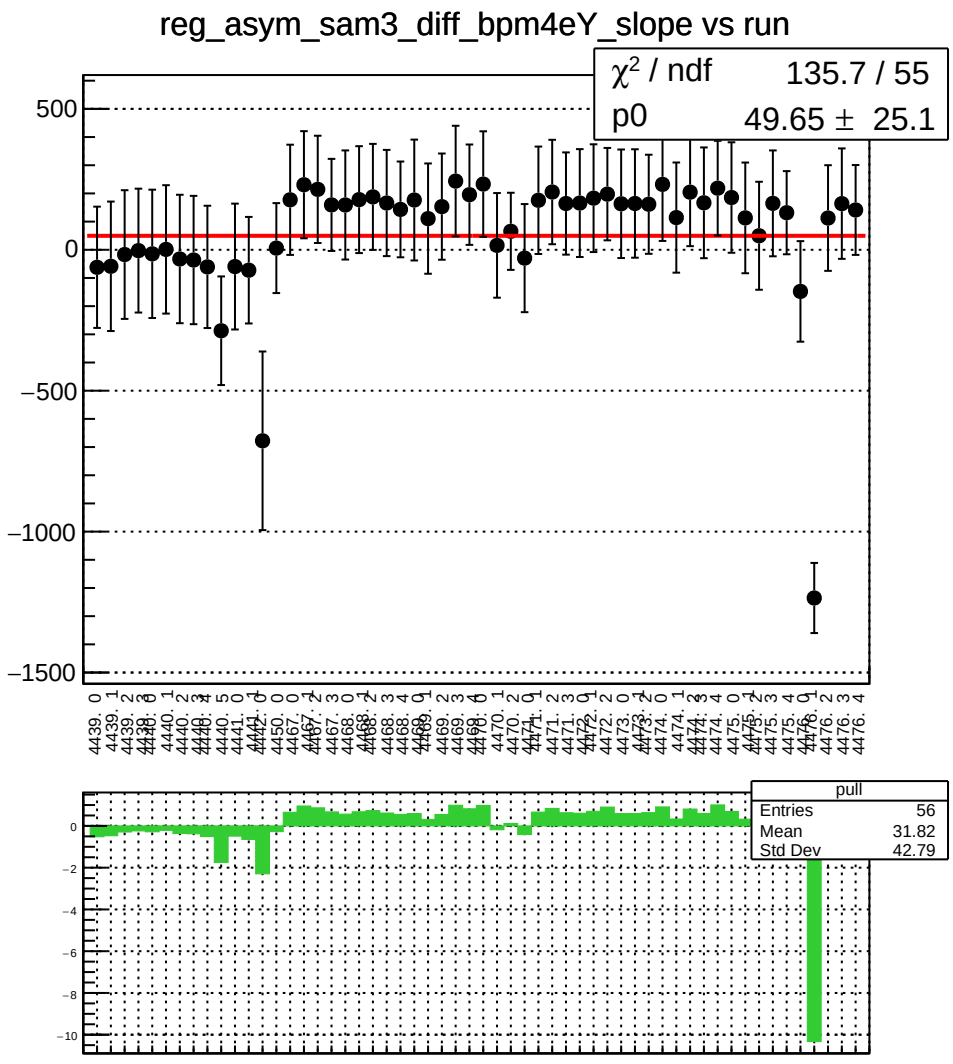

pull1D
Entries 56
Mean 0.0167
Std Dev 0.7587

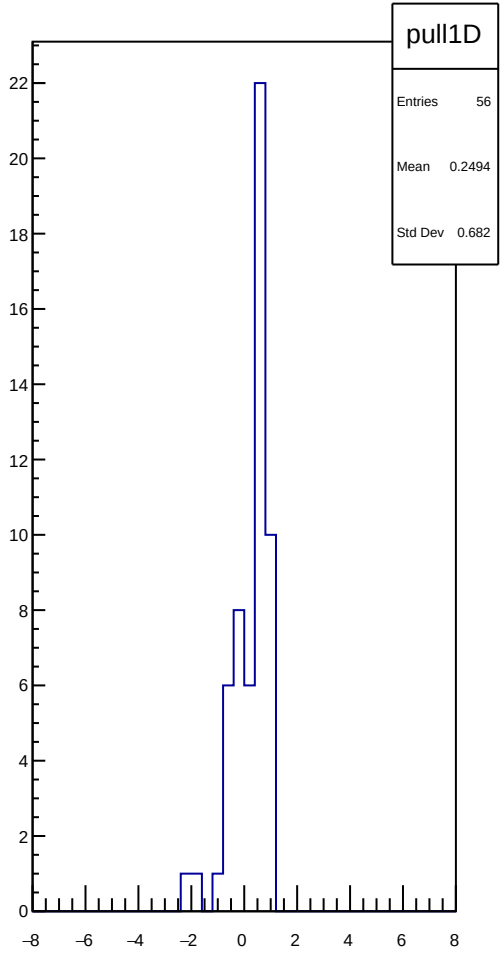

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 6.908 / 55
p0 431.1 ± 19.08
pull
Entries 56
Mean 1348
Std Dev 1312

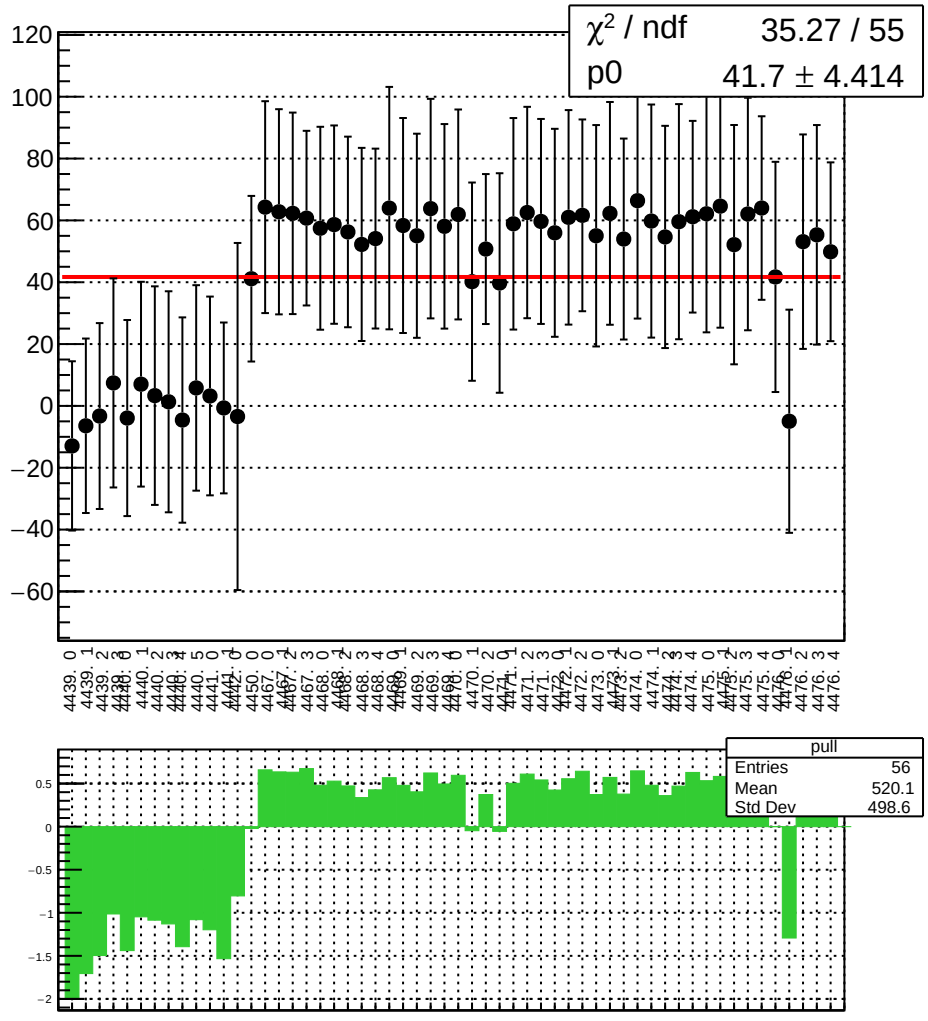

pull1D
Entries 56
Mean −0.000922
Std Dev 0.3512

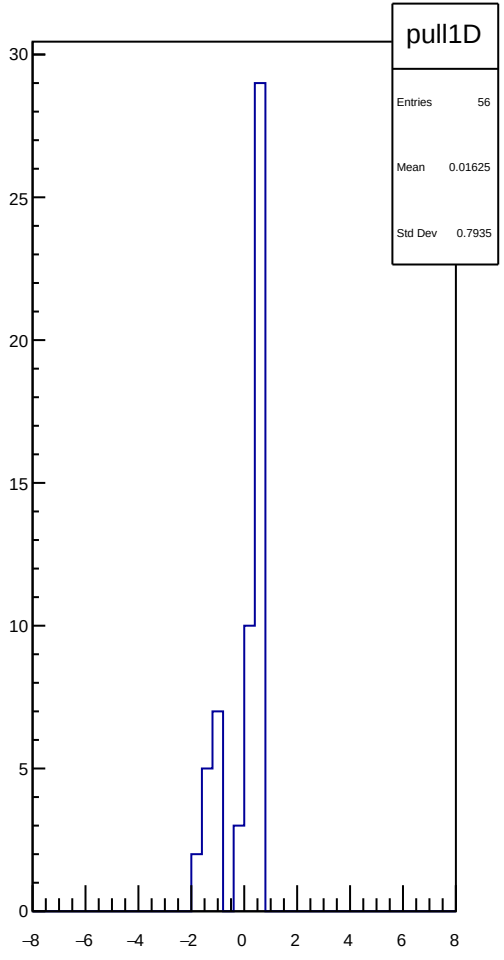

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 135.9 / 55
p0 −116.4 ± 20.47
pull
Entries 56
Mean 52.99
Std Dev 33.53
pull1D
Entries 56
Mean −0.3722
Std Dev 0.9729

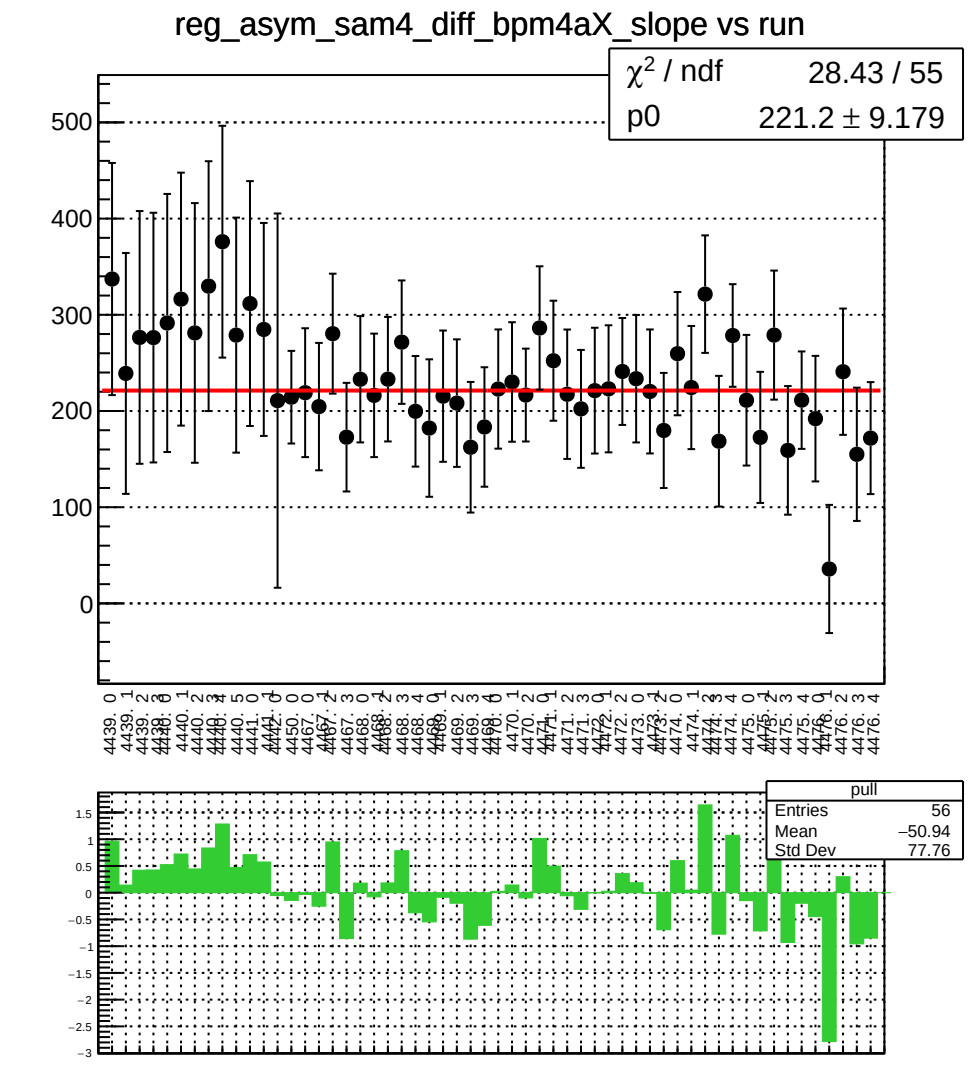

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 762.6 / 55
p0 −1198 ± 3.329
pull
Entries 56
Mean −253.2
Std Dev 275.7
pull1D
Entries 56
Mean −0.0006564
Std Dev 3.549

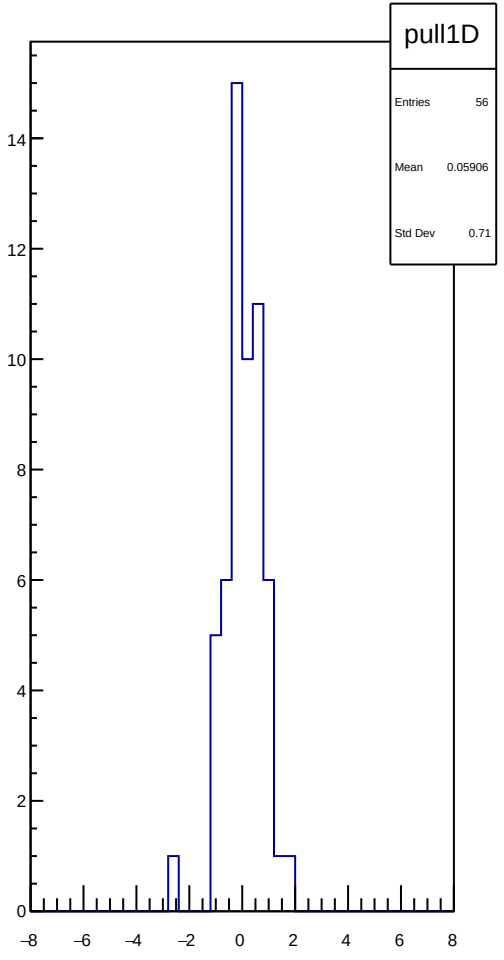

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 135.7 / 55
p0 49.65 ± 25.1
500
0
−500
−1000
−1500
pull
Entries 56
Mean 31.82
Std Dev 42.79
0
−2
−4
−6
−8
−10

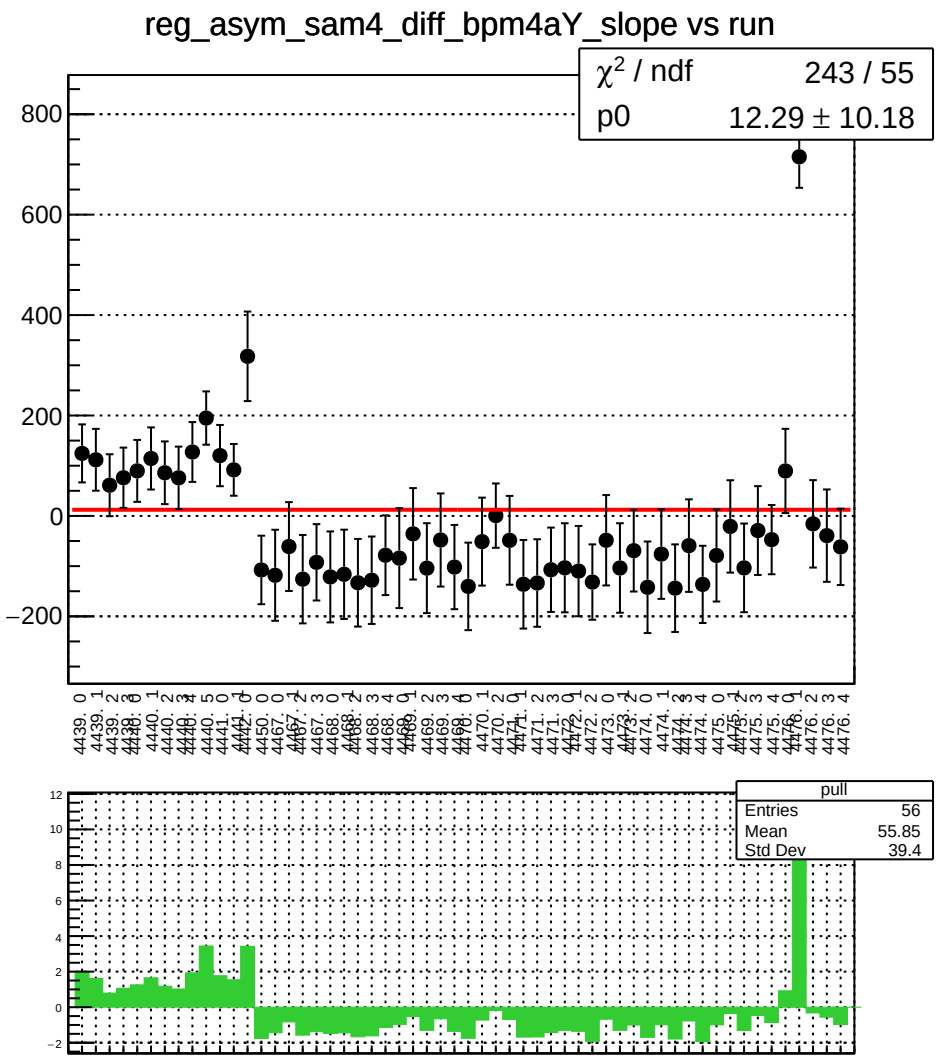

pull1D
Entries 56
Mean 0.2494
Std Dev 0.682
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

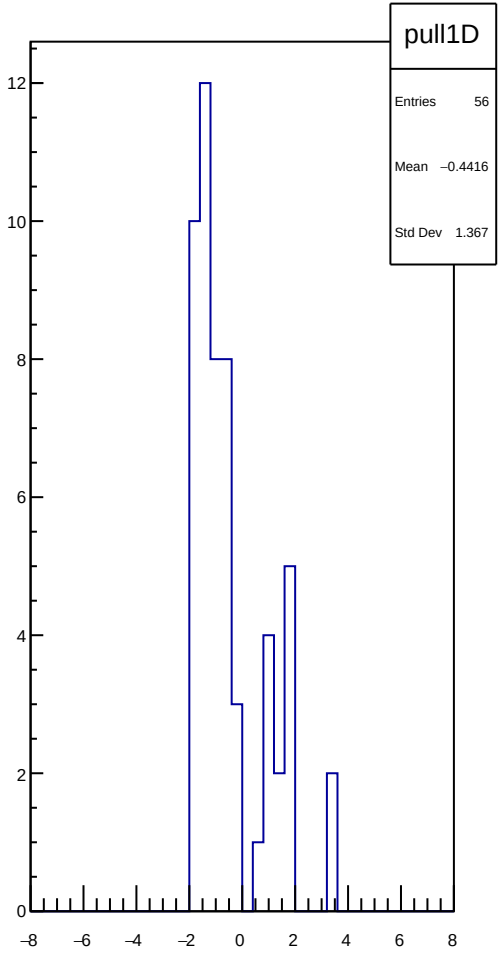

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 35.27 / 55
p0 41.7 ± 4.414
pull
Entries 56
Mean 520.1
Std Dev 498.6

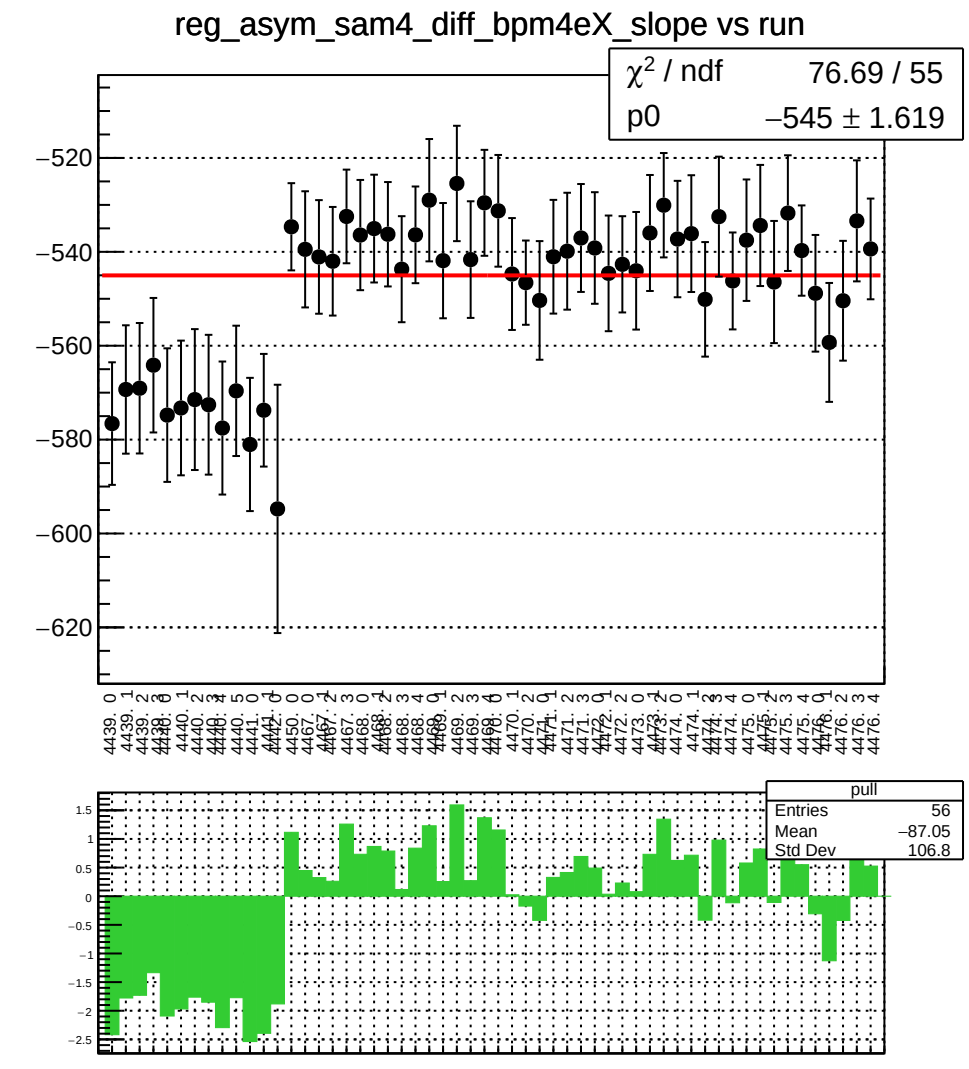

pull1D
Entries 56
Mean 0.01625
Std Dev 0.7935

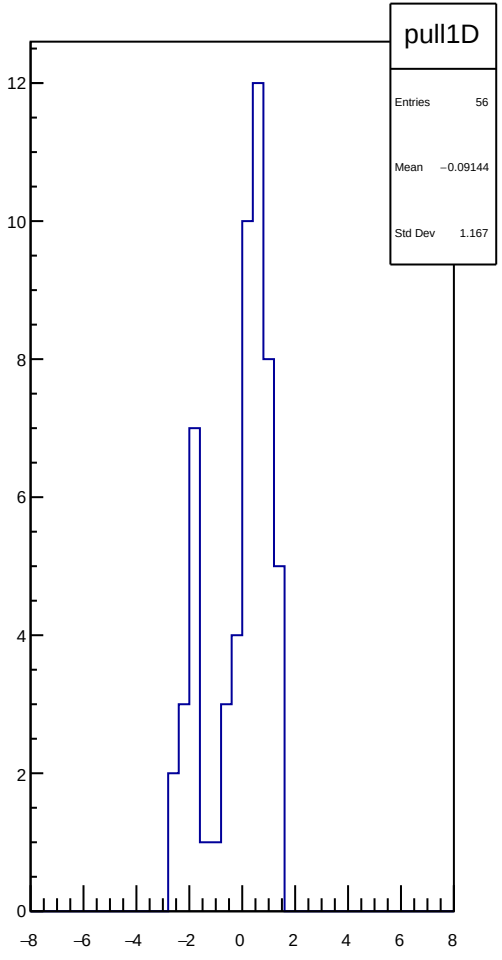

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 28.43 / 55
p0 221.2 ± 9.179
pull
Entries 56
Mean −50.94
Std Dev 77.76

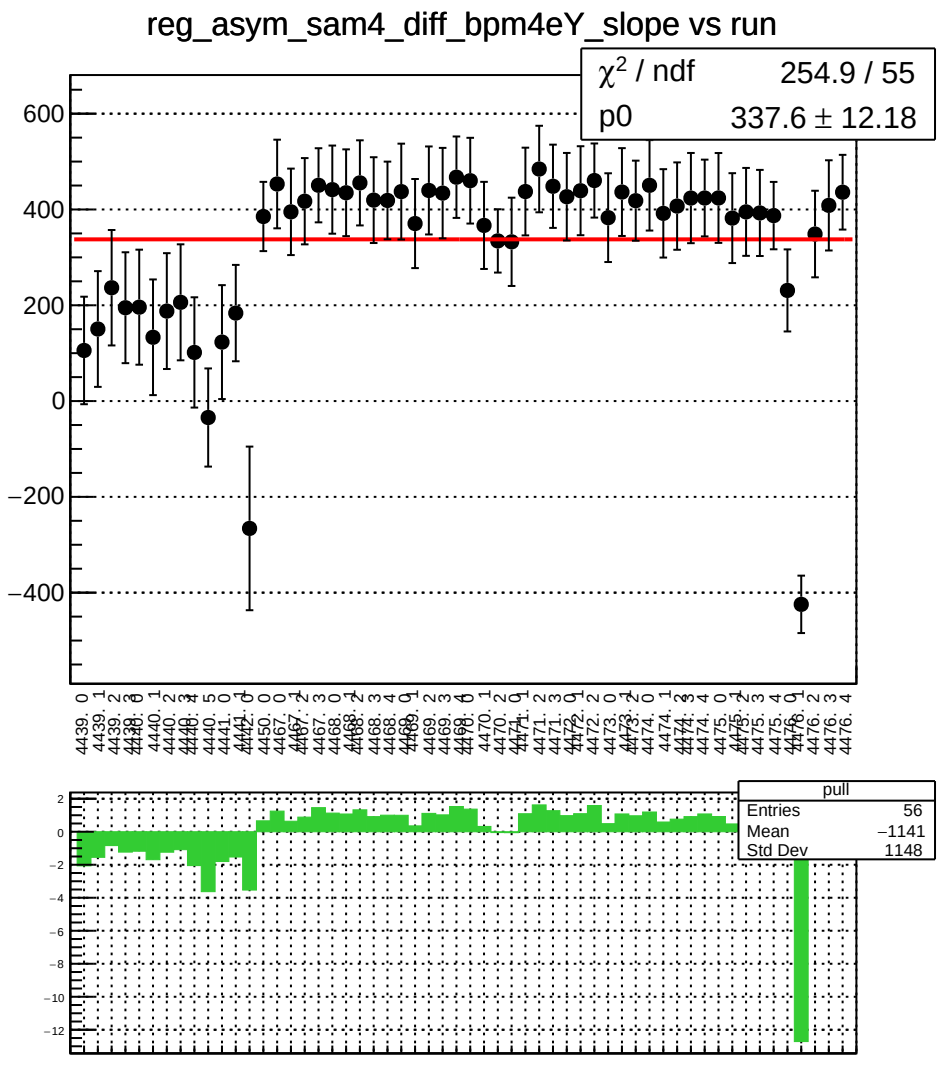

pull1D
Entries 56
Mean 0.05906
Std Dev 0.71

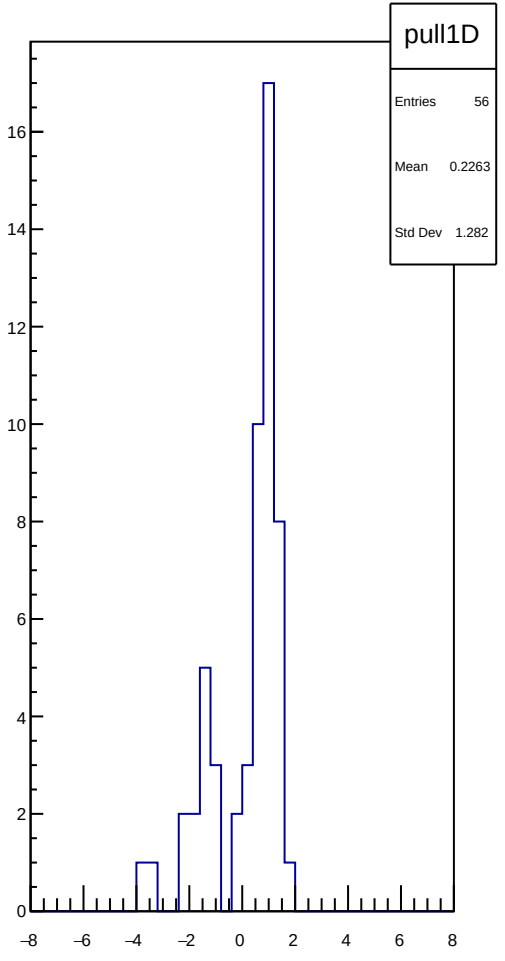

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 243 / 55
p0 12.29 ± 10.18
pull
Entries 56
Mean 55.85
Std Dev 39.4

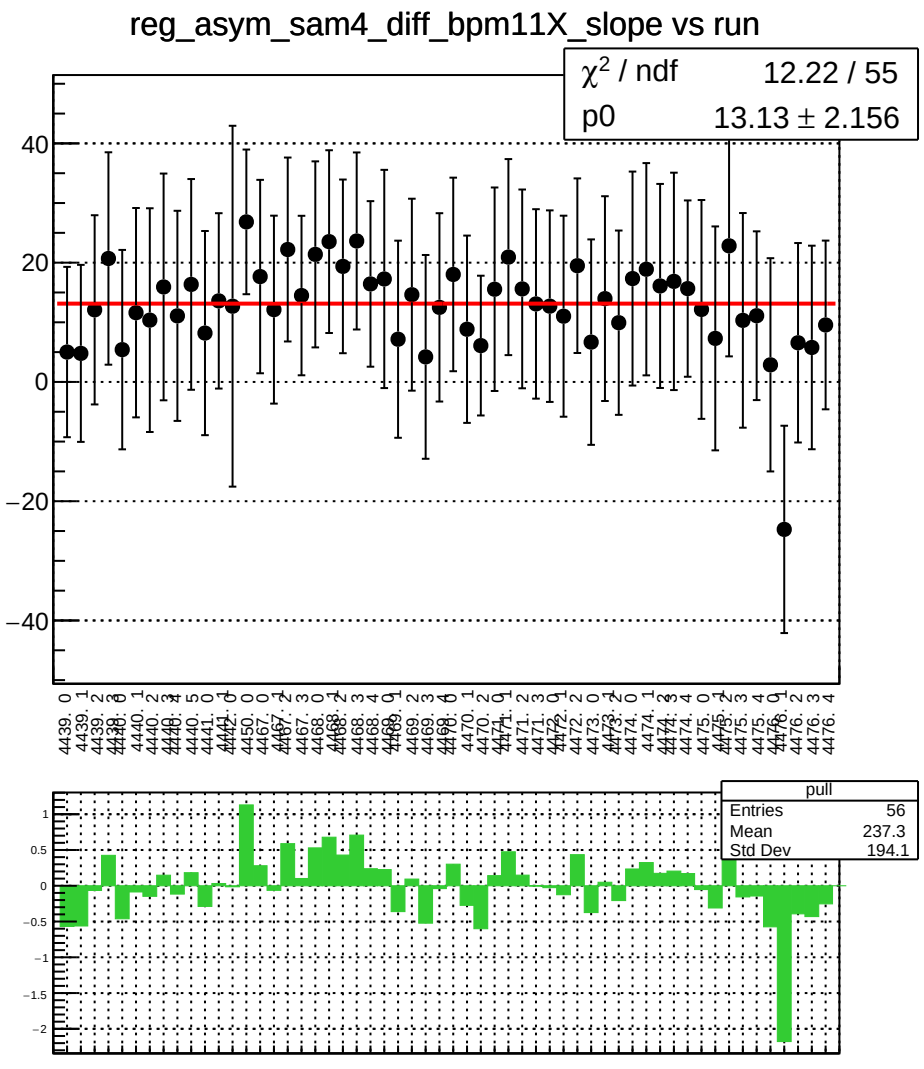

pull1D
Entries 56
Mean −0.4416
Std Dev 1.367

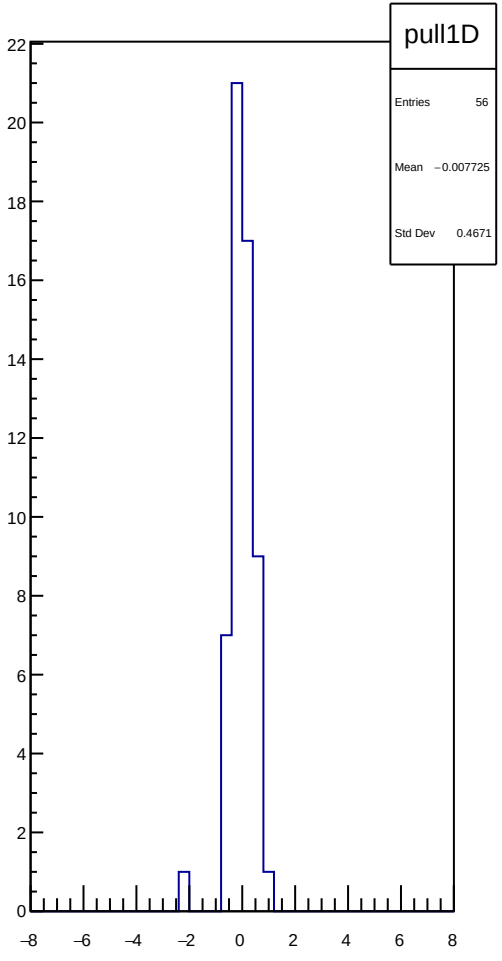

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 76.69 / 55
p0 −545 ± 1.619
pull
Entries 56
Mean −87.05
Std Dev 106.8

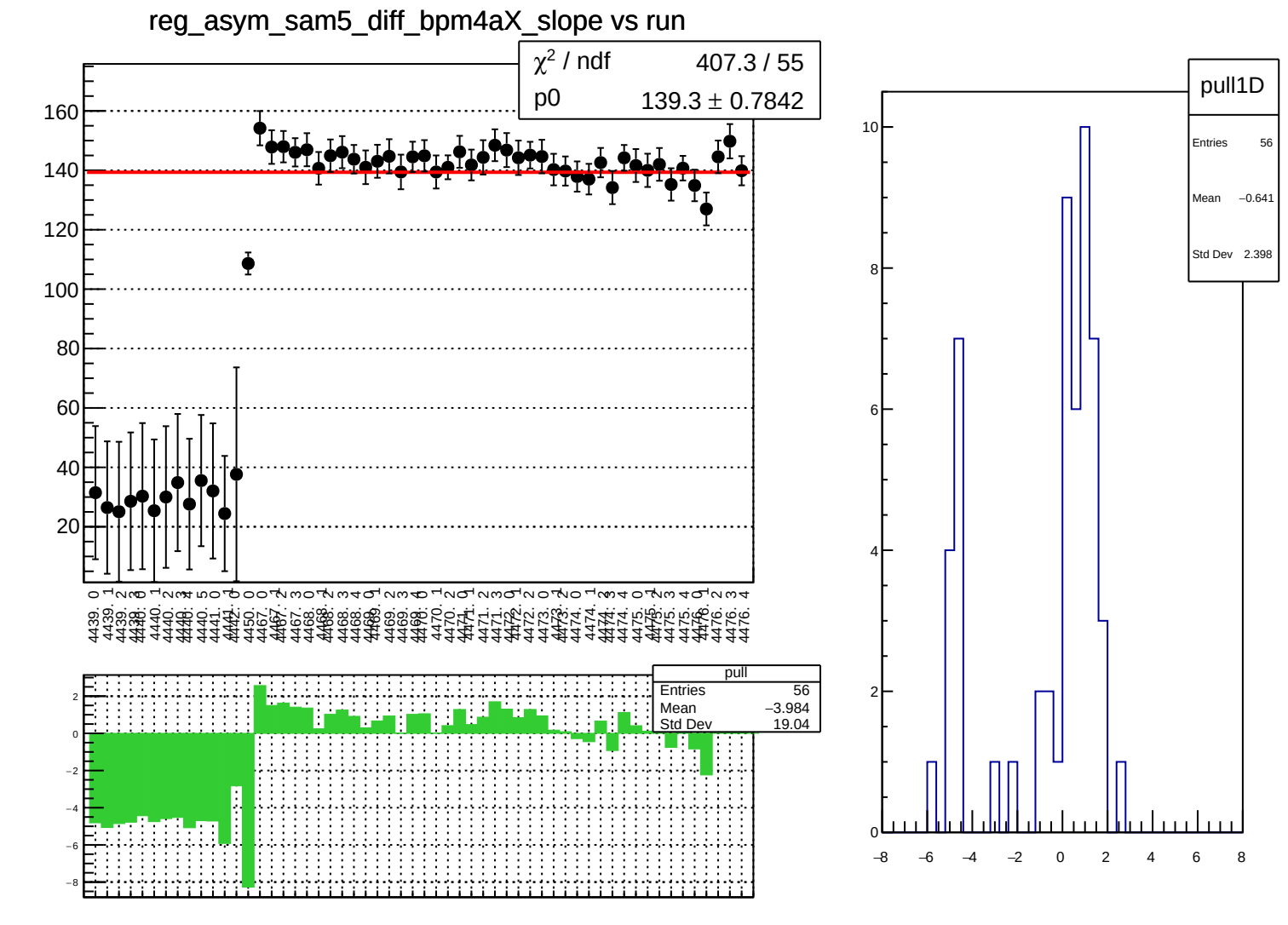

pull1D
Entries 56
Mean −0.09144
Std Dev 1.167

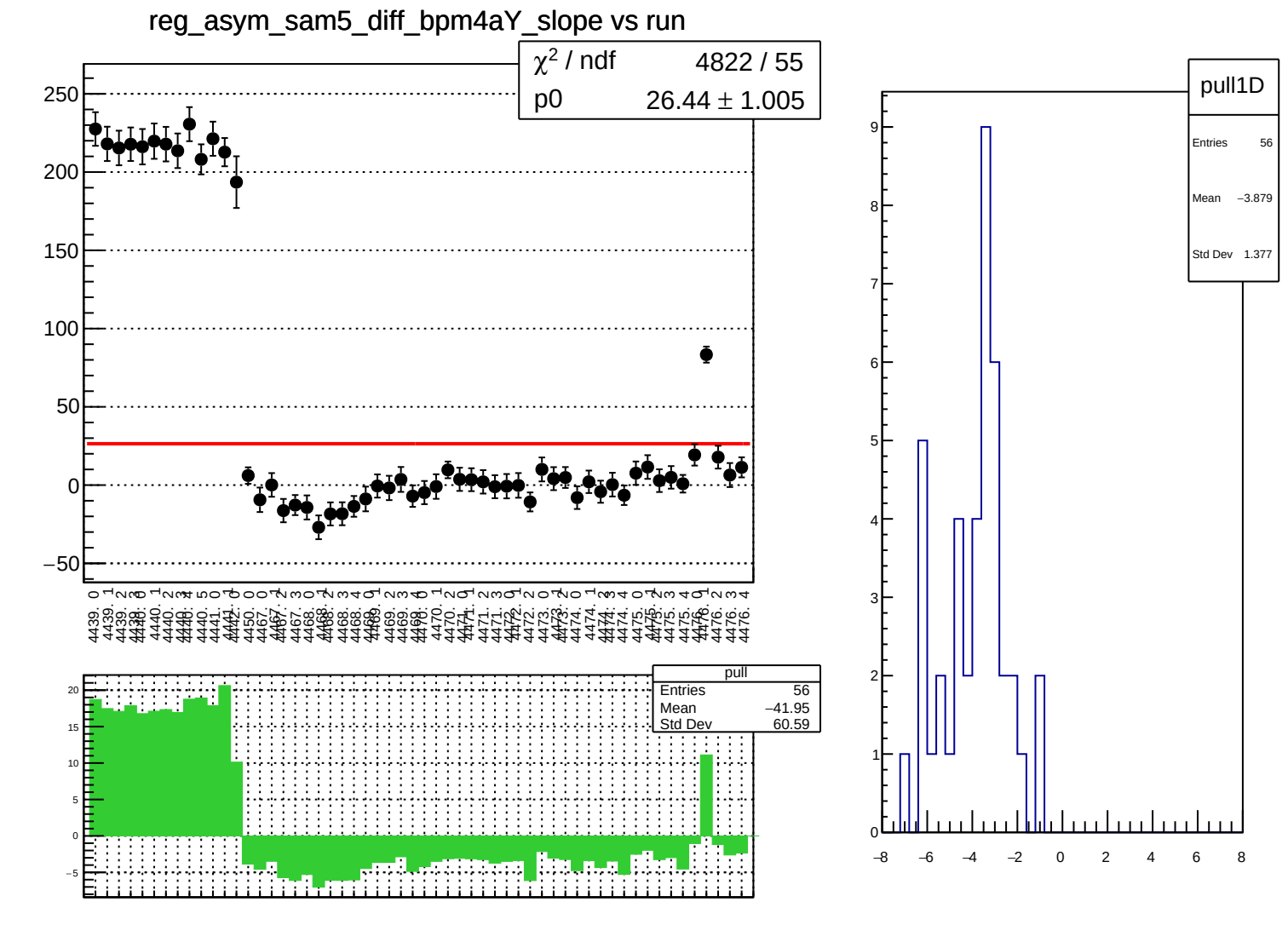

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 254.9 / 55
p0 337.6 ± 12.18
600
400
200
0
−200
−400
pull
Entries 56
Mean −1141
Std Dev 1148
2
0
−2
−4
−6
−8
−10
−12

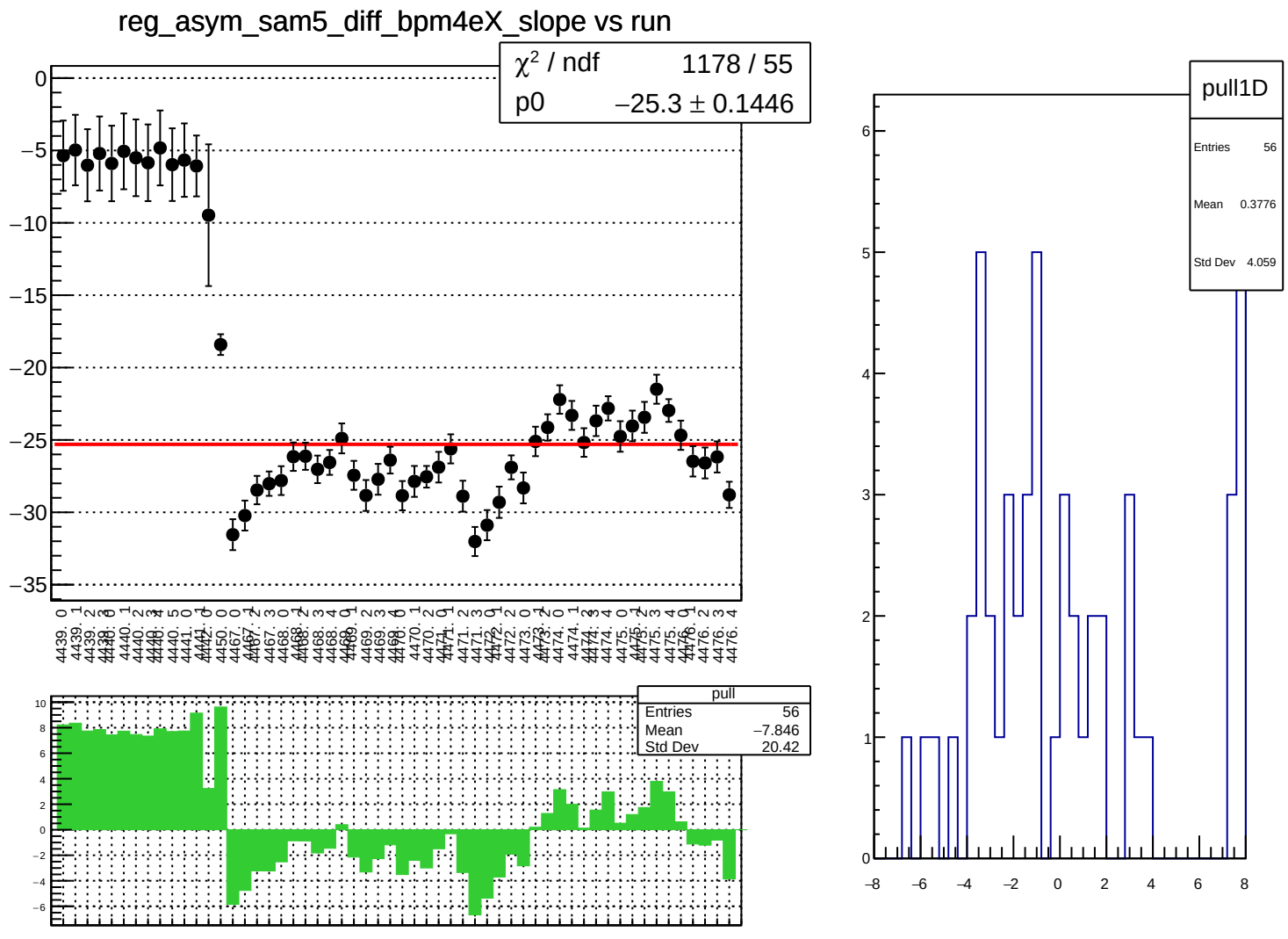

pull1D
Entries 56
Mean 0.2263
Std Dev 1.282
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

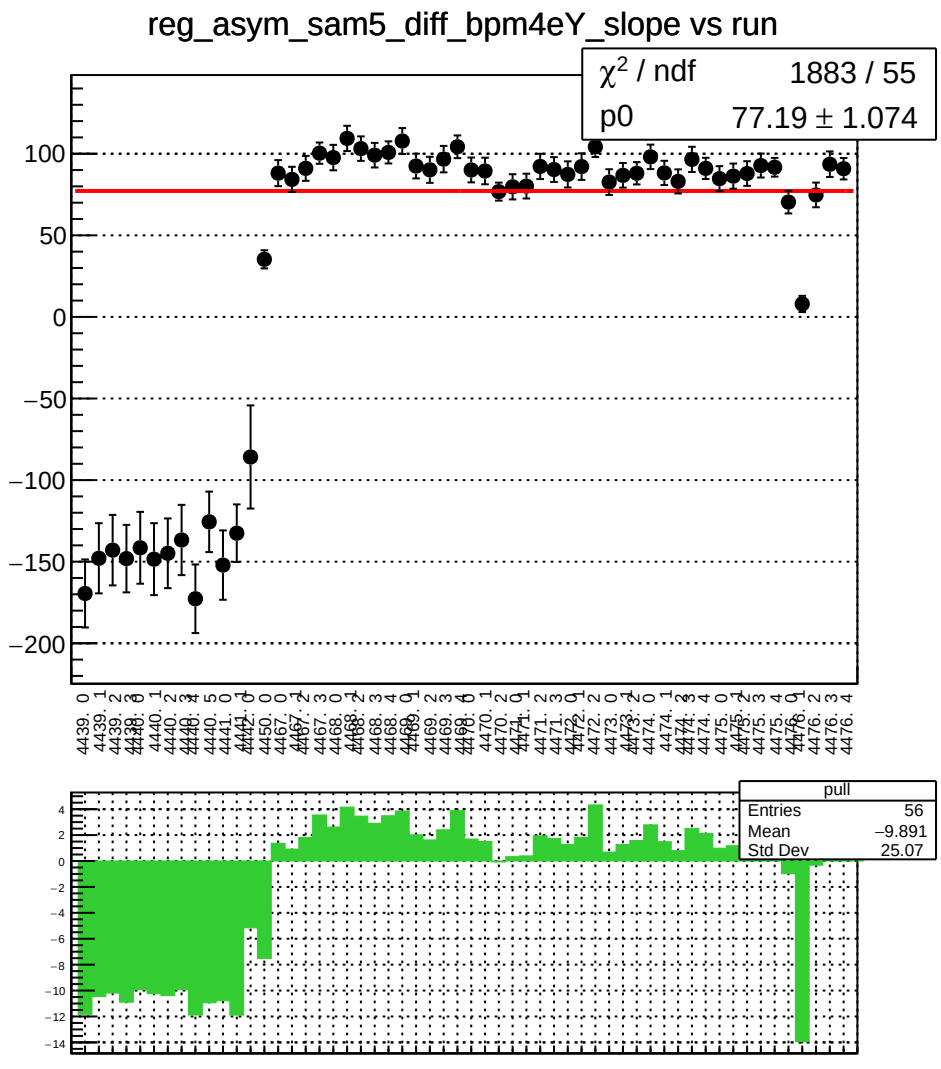

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 12.22 / 55
p0 13.13 ± 2.156
pull
Entries 56
Mean 237.3
Std Dev 194.1

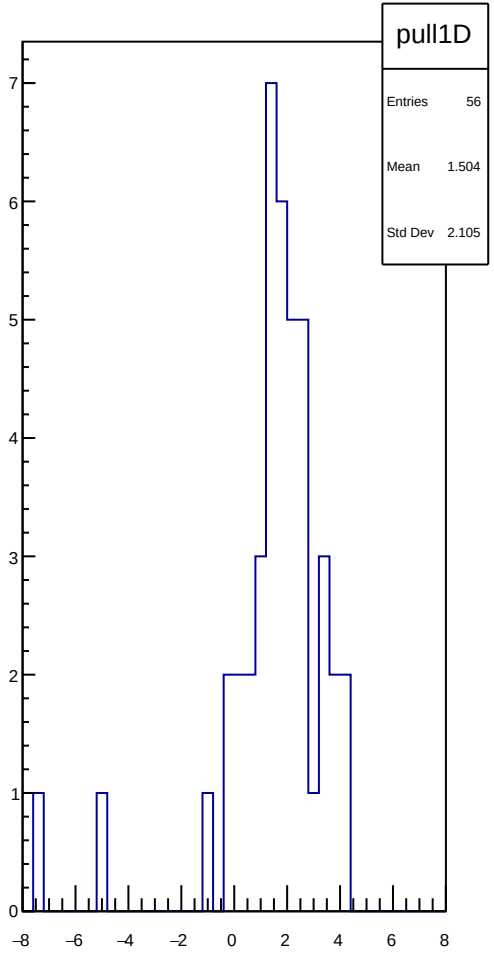

pull1D
Entries 56
Mean −0.007725
Std Dev 0.4671

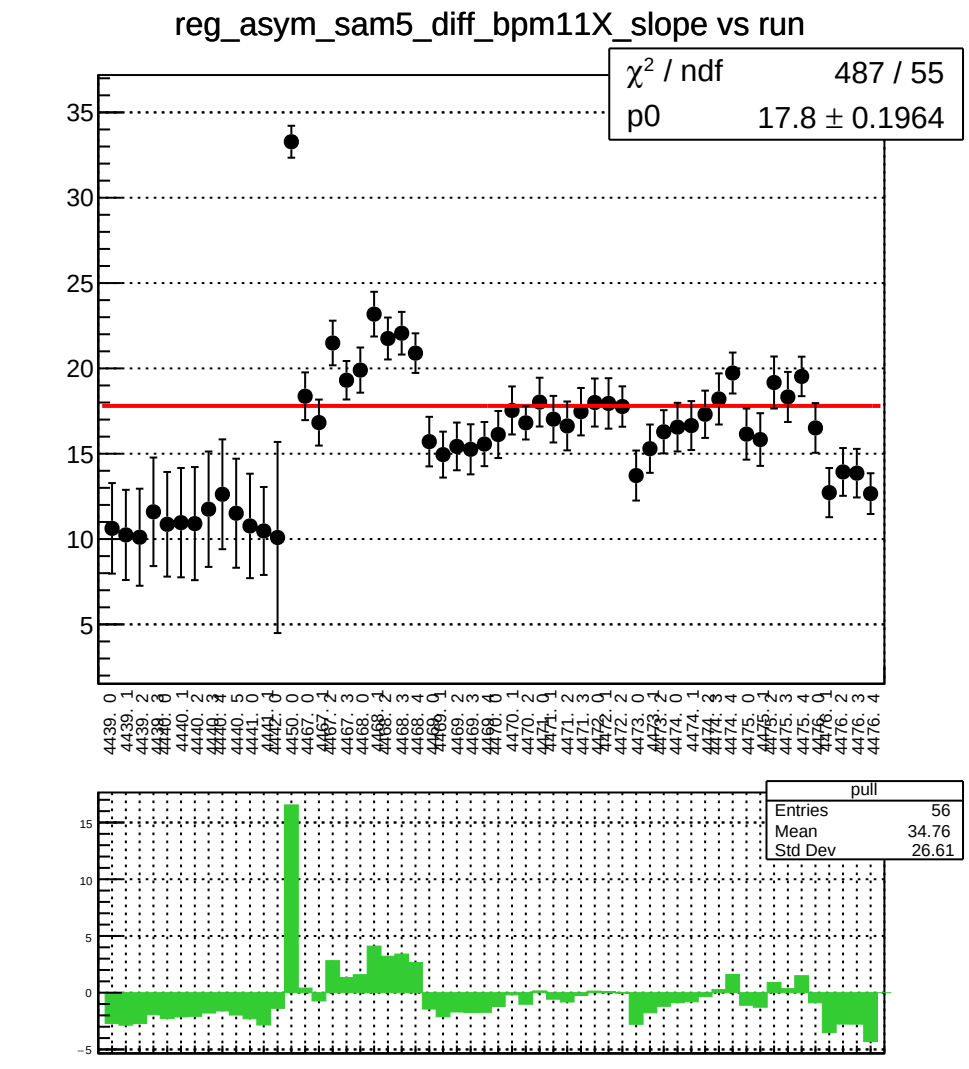

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 407.3 / 55
p0 139.3 ± 0.7842
pull
Entries 56
Mean −3.984
Std Dev 19.04
pull1D
Entries 56
Mean −0.641
Std Dev 2.398

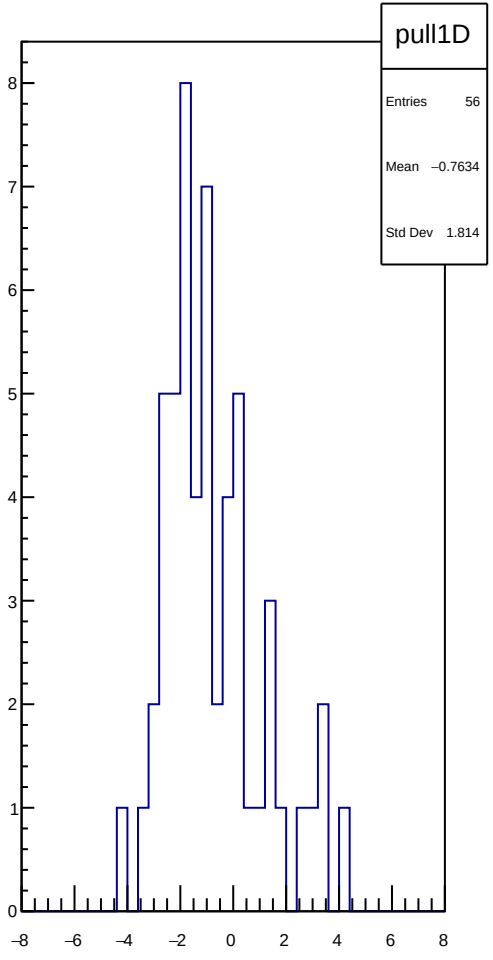

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 4822 / 55
p0 26.44 ± 1.005
pull
Entries 56
Mean −41.95
Std Dev 60.59
pull1D
Entries 56
Mean −3.879
Std Dev 1.377

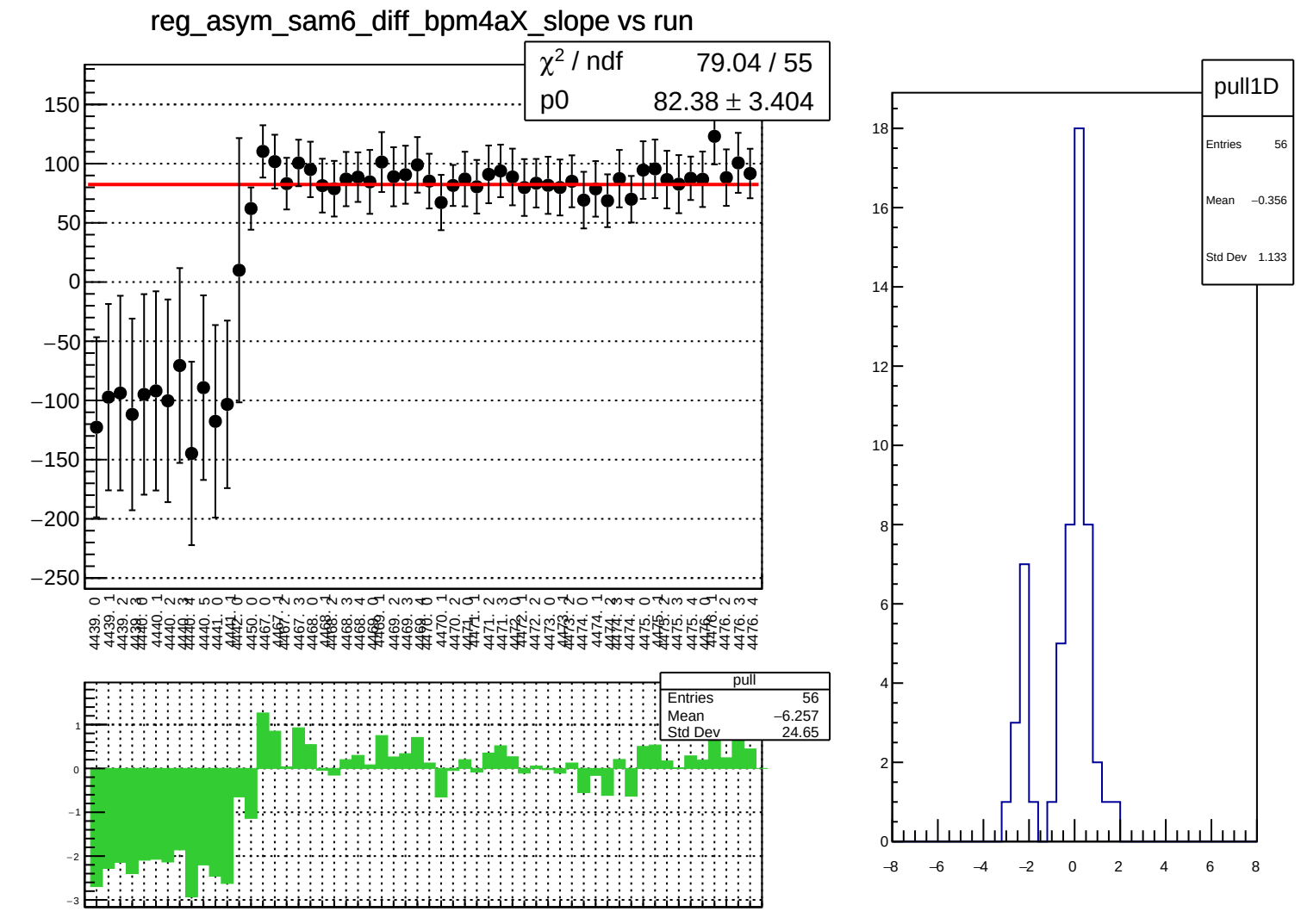

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 1178 / 55
p0 −25.3 ± 0.1446
pull
Entries 56
Mean −7.846
Std Dev 20.42
pull1D
Entries 56
Mean 0.3776
Std Dev 4.059

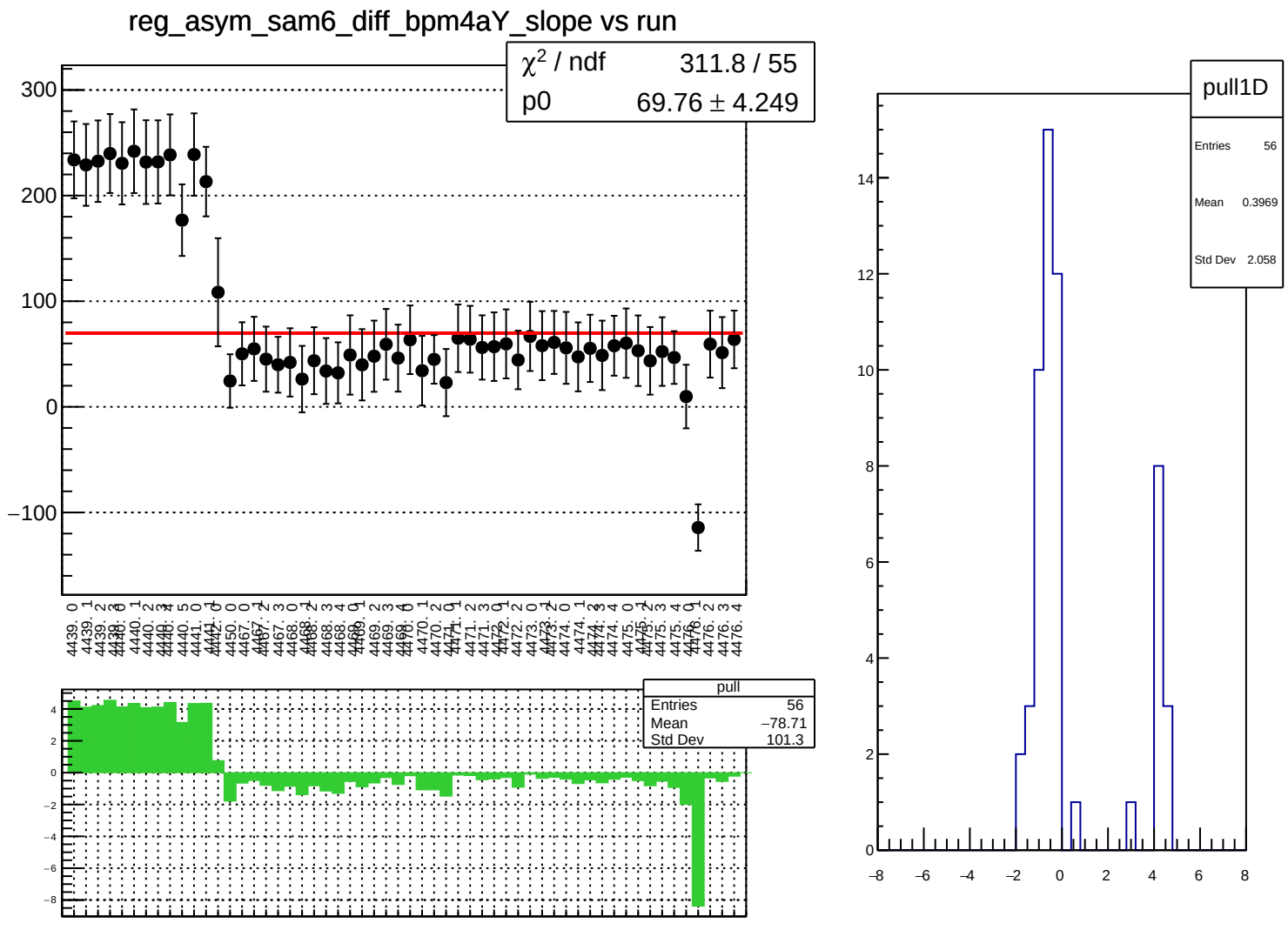

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 1883 / 55
p0 77.19 ± 1.074
pull
Entries 56
Mean −9.891
Std Dev 25.07

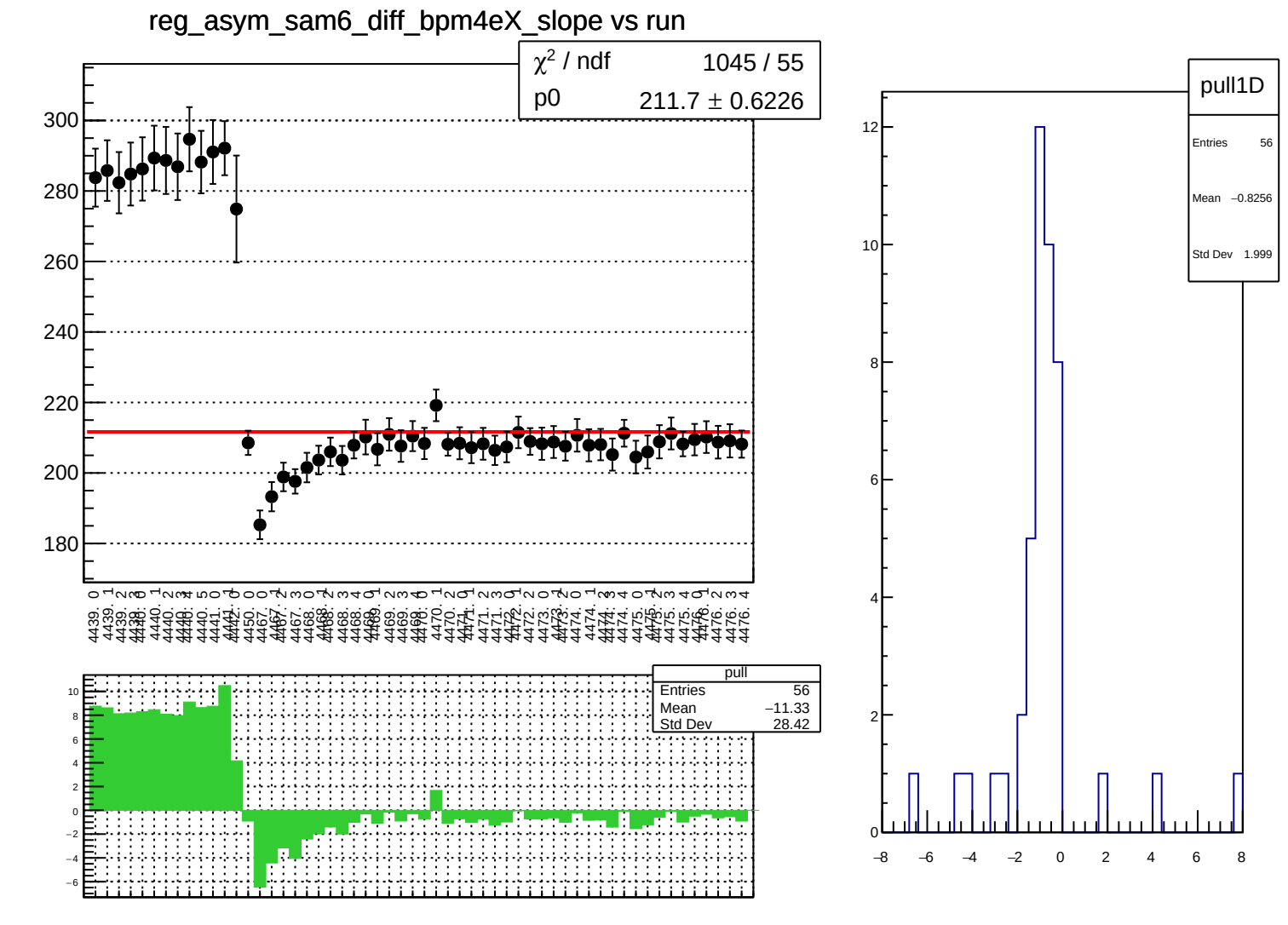

pull1D
Entries 56
Mean 1.504
Std Dev 2.105

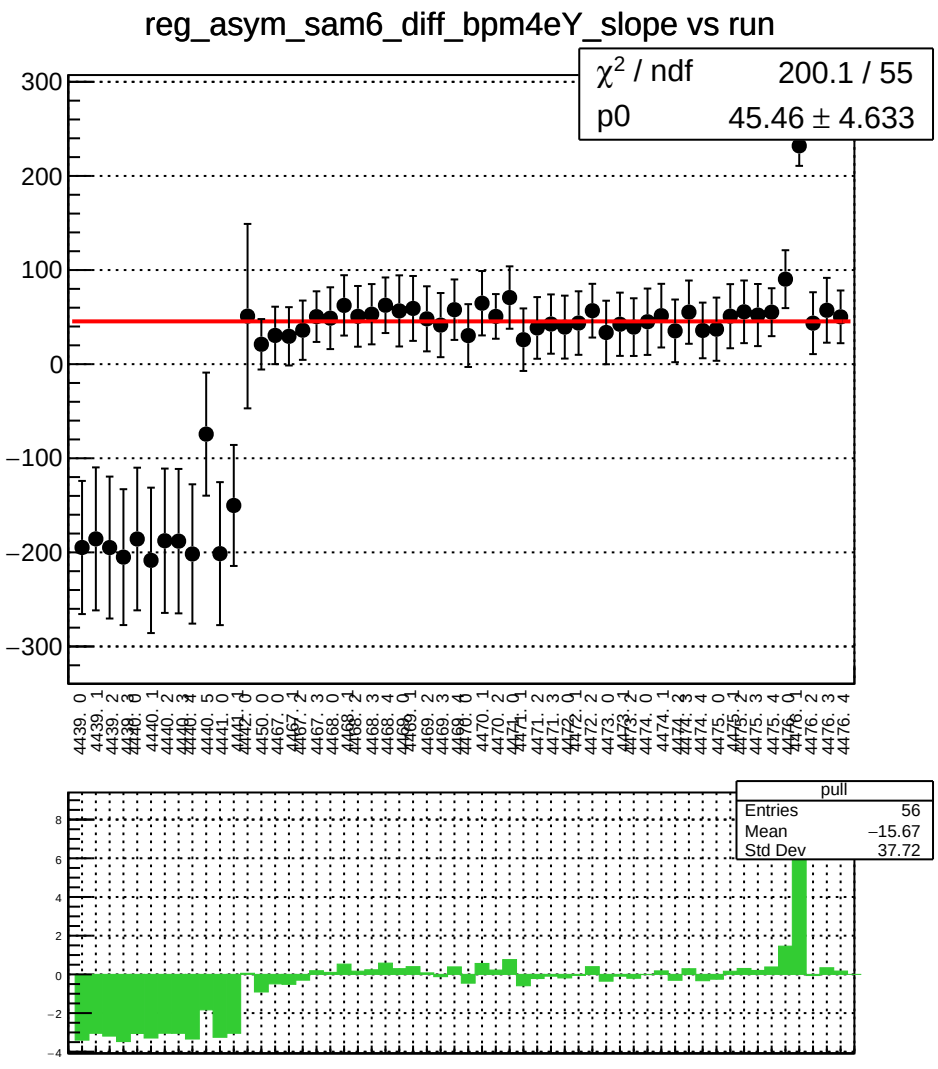

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 487 / 55
p0 17.8 ± 0.1964
pull
Entries 56
Mean 34.76
Std Dev 26.61

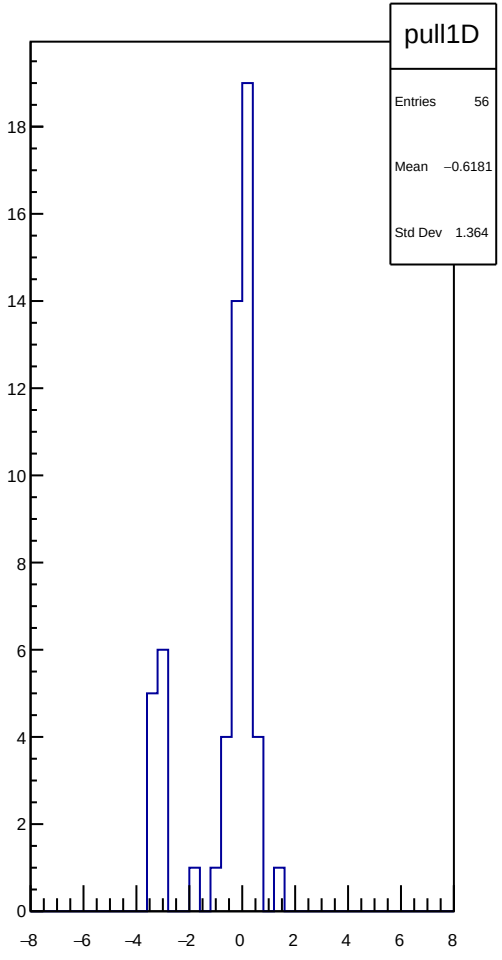

pull1D
Entries 56
Mean −0.7634
Std Dev 1.814

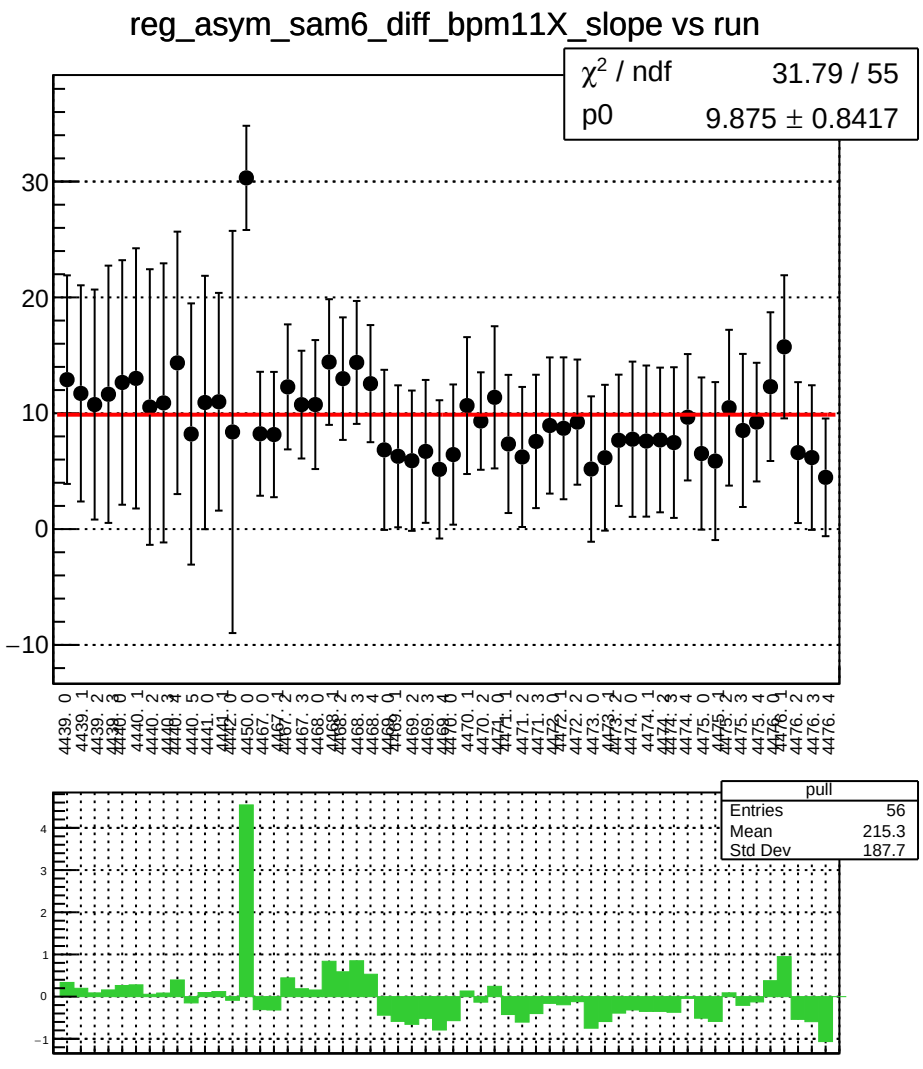

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 79.04 / 55
p0 82.38 ± 3.404
pull
Entries 56
Mean −6.257
Std Dev 24.65
pull1D
Entries 56
Mean −0.356
Std Dev 1.133

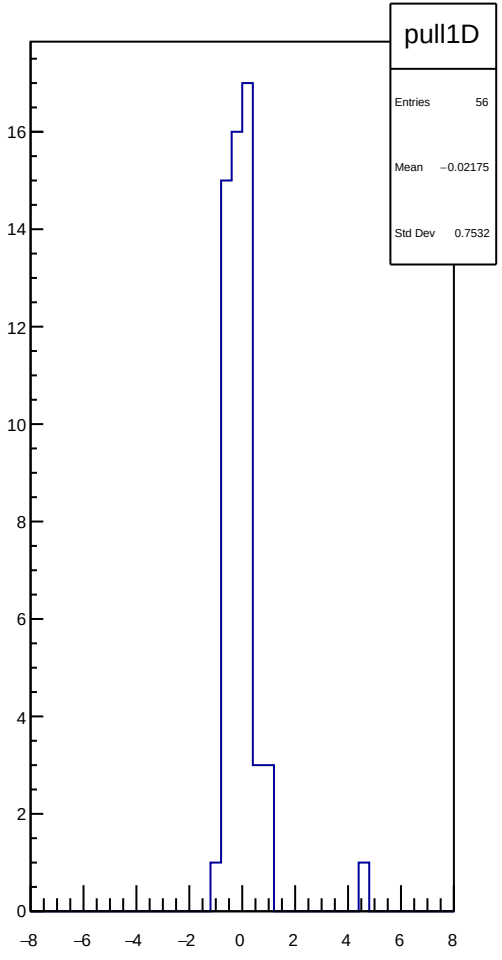

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 311.8 / 55
p0 69.76 ± 4.249
300
200
100
0
−100
pull
Entries 56
Mean −78.71
Std Dev 101.3
pull1D
Entries 56
Mean 0.3969
Std Dev 2.058

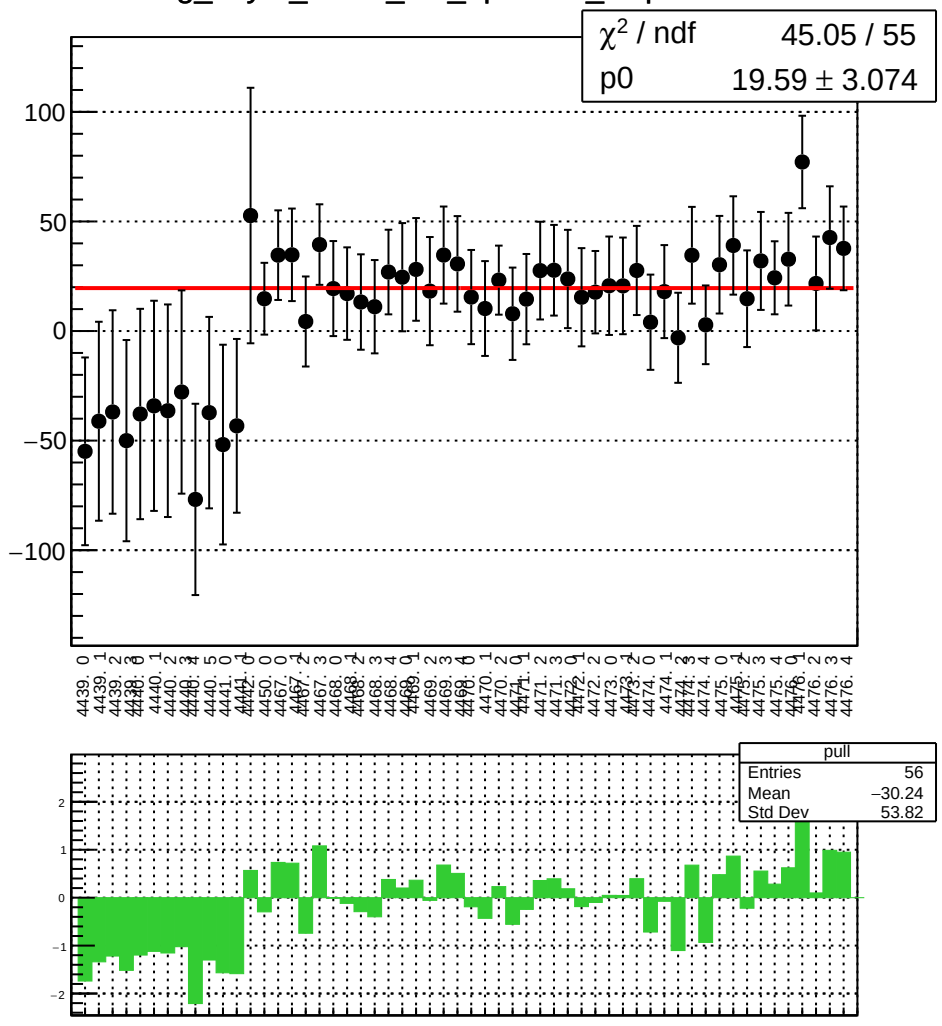

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 1045 / 55
p0 211.7 ± 0.6226
pull
Entries 56
Mean −11.33
Std Dev 28.42
pull1D
Entries 56
Mean −0.8256
Std Dev 1.999

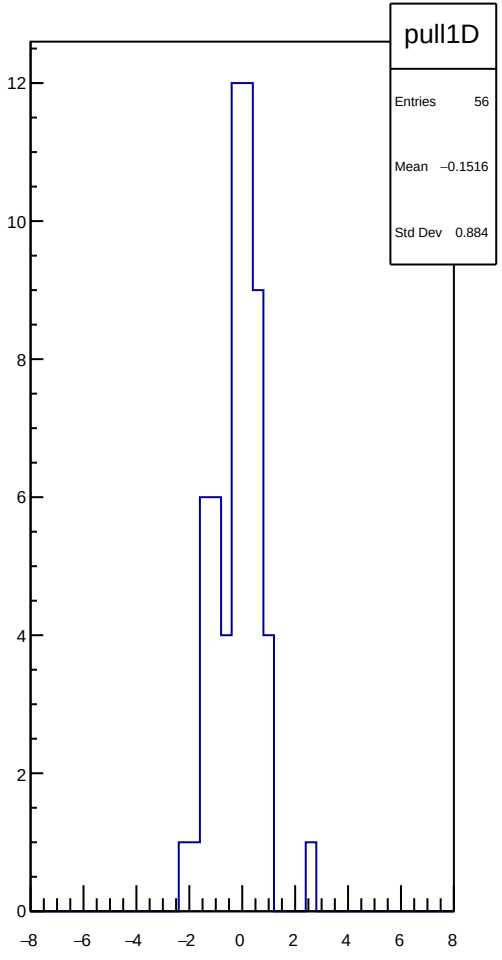

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 200.1 / 55
p0 45.46 ± 4.633
pull
Entries 56
Mean −15.67
Std Dev 37.72

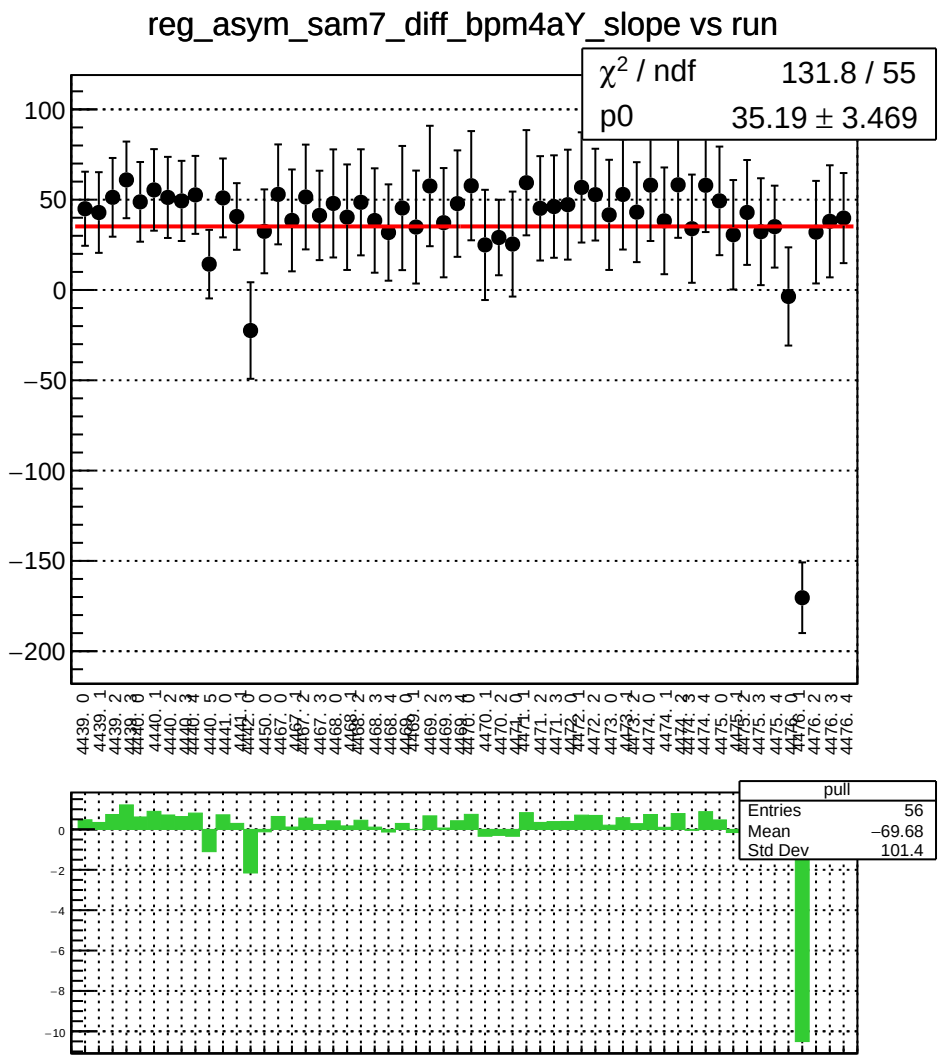

pull1D
Entries 56
Mean −0.6181
Std Dev 1.364

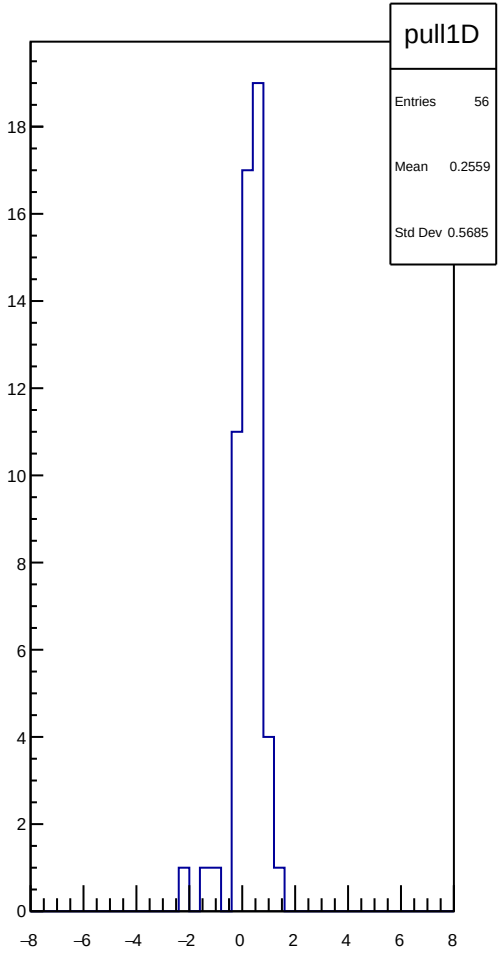

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 31.79 / 55
p0 9.875 ± 0.8417
pull
Entries 56
Mean 215.3
Std Dev 187.7

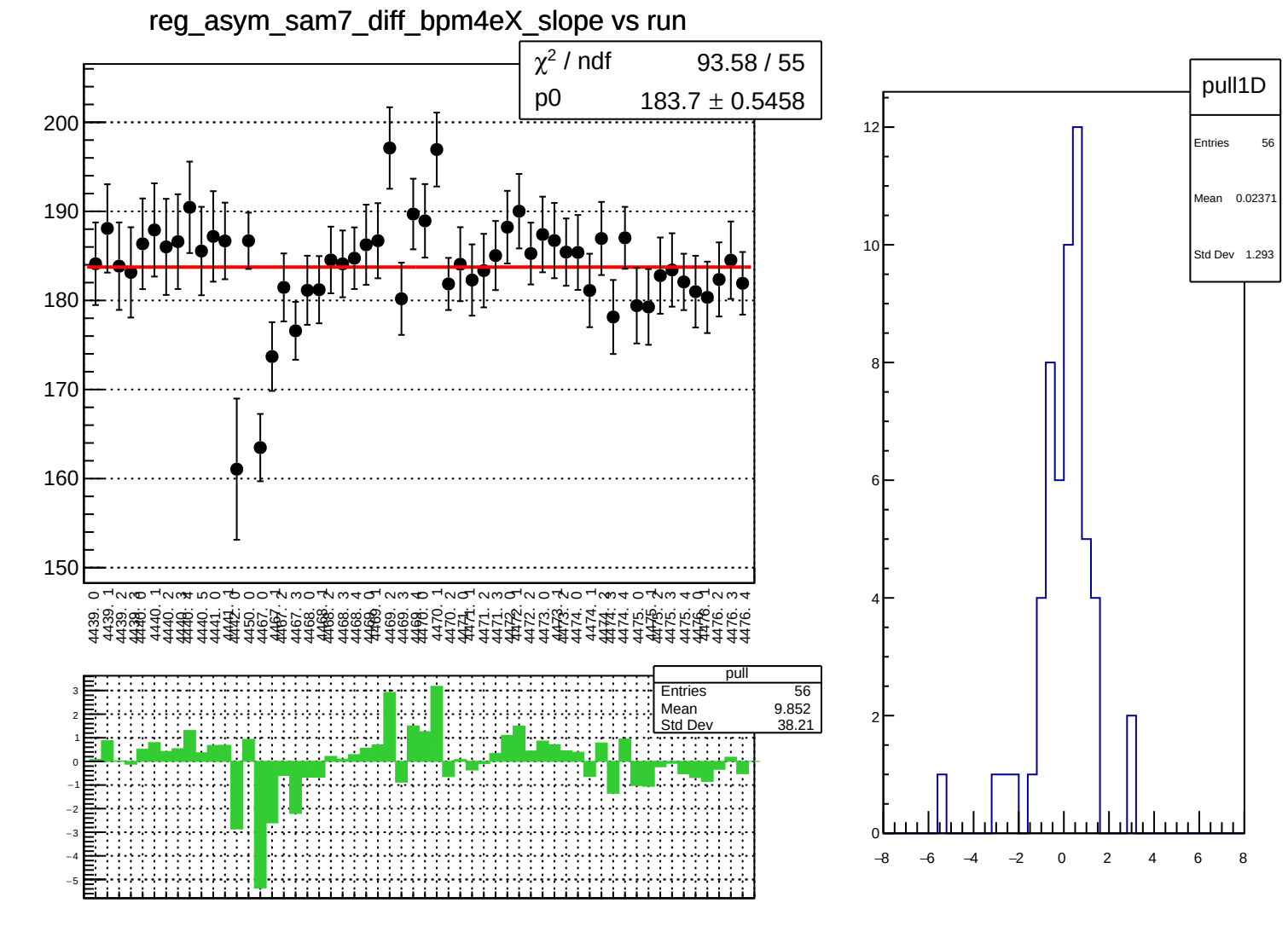

pull1D
Entries 56
Mean −0.02175
Std Dev 0.7532

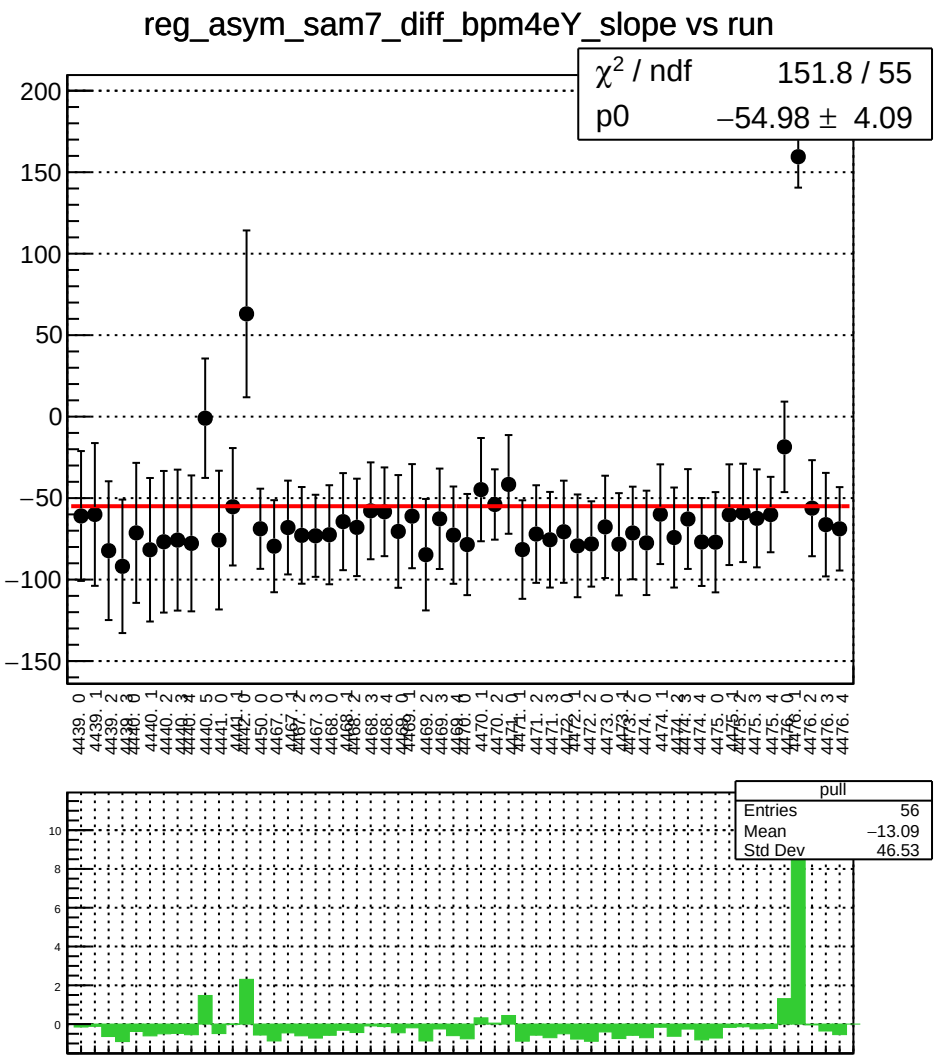

reg_asym_sam7_diff_bpm4aX_slope vs run
χ^2 / ndf 45.05 / 55
p0 19.59 ± 3.074
pull
Entries 56
Mean −30.24
Std Dev 53.82

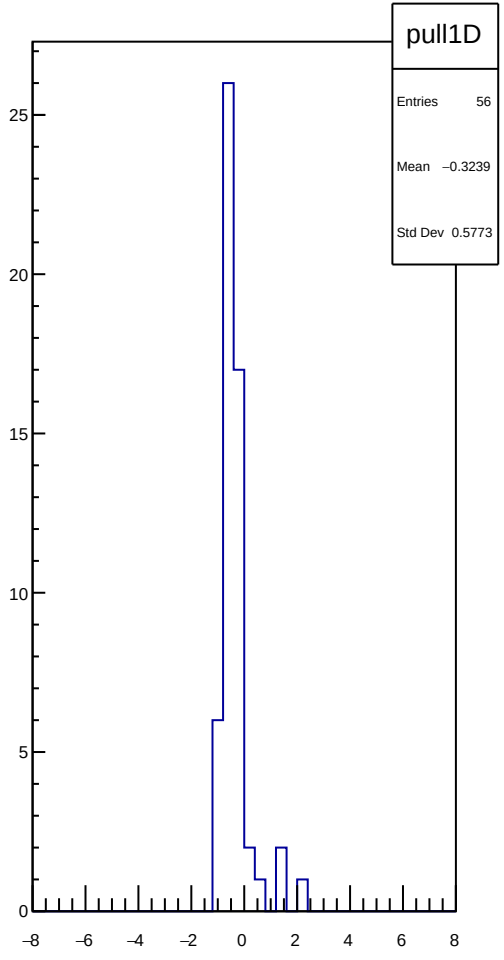

pull1D
Entries 56
Mean −0.1516
Std Dev 0.884

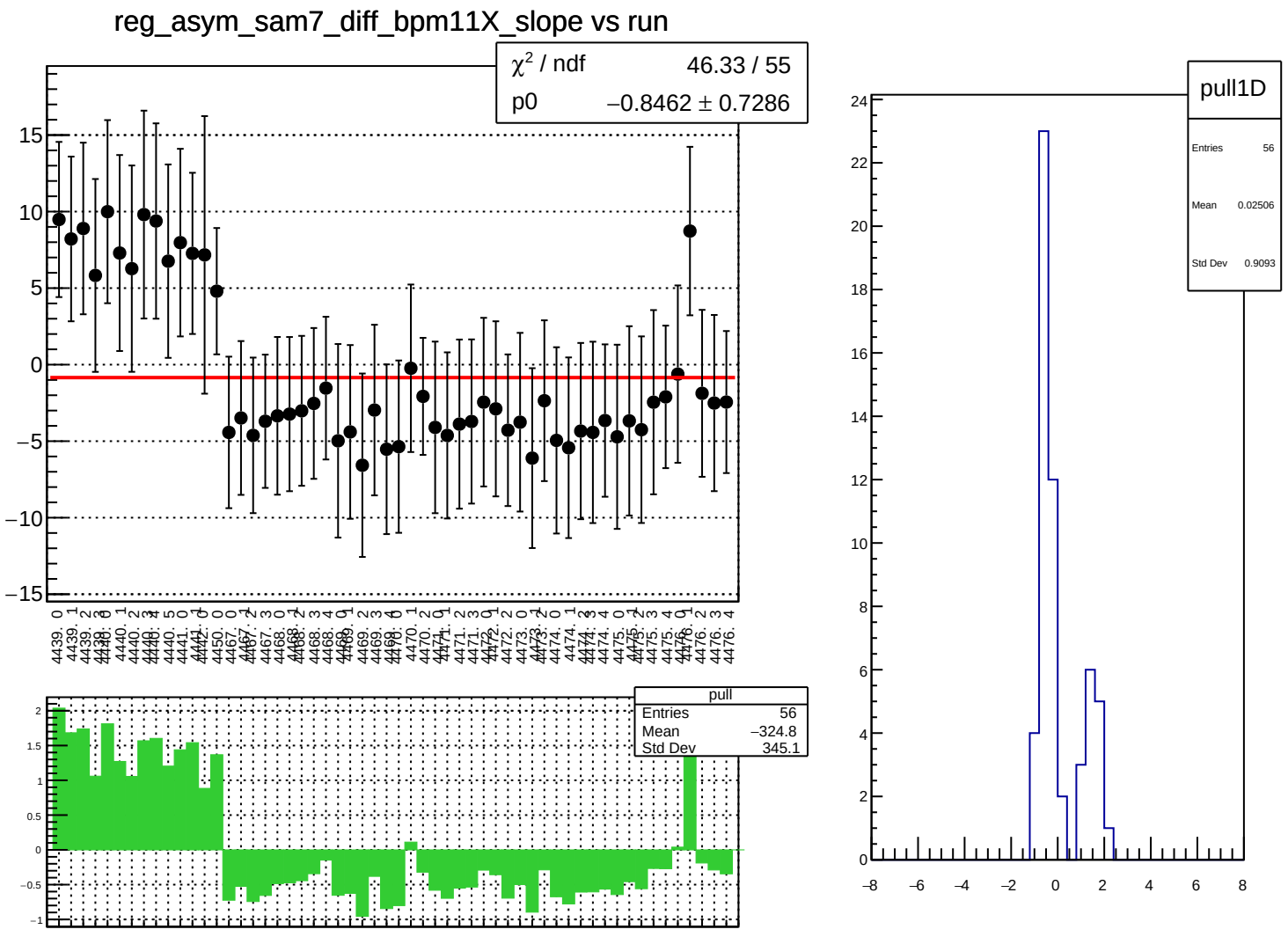

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 131.8 / 55
p0 35.19 ± 3.469
pull
Entries 56
Mean −69.68
Std Dev 101.4

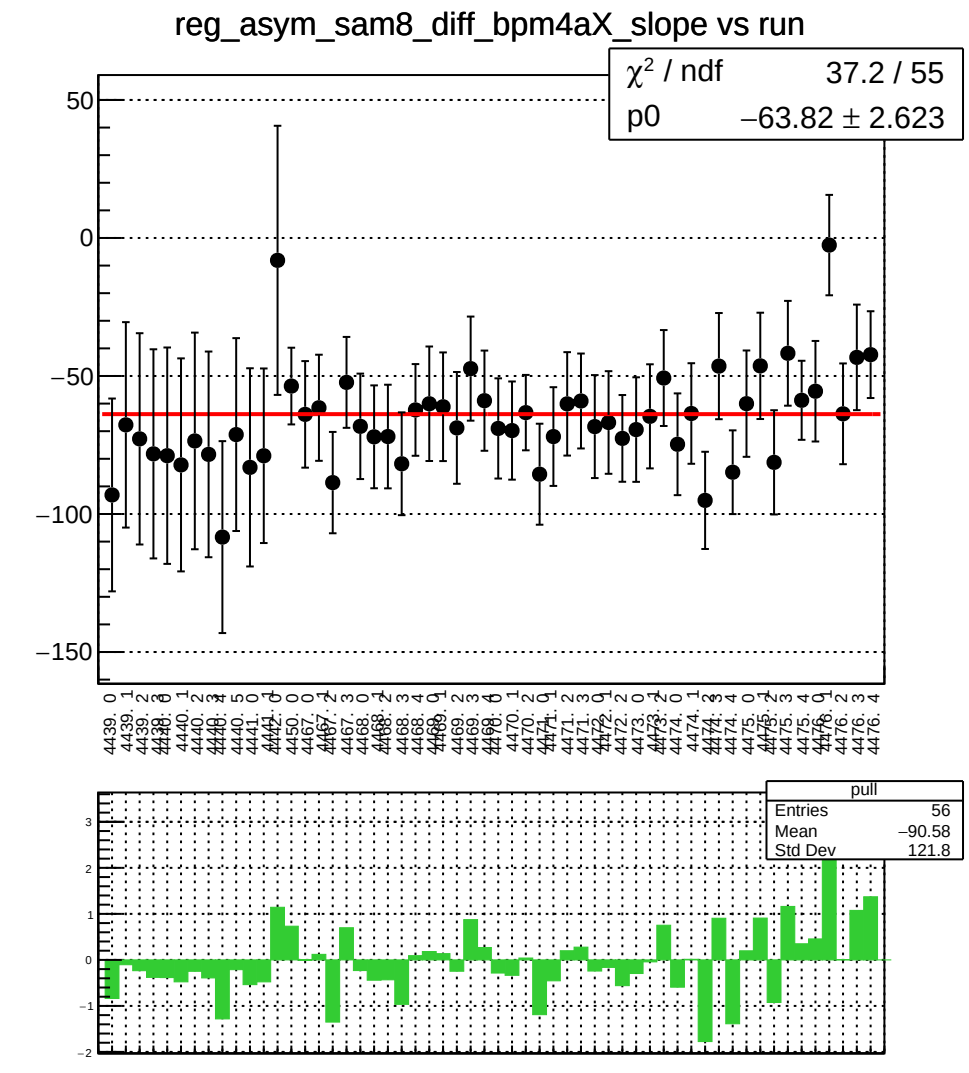

pull1D
Entries 56
Mean 0.2559
Std Dev 0.5685

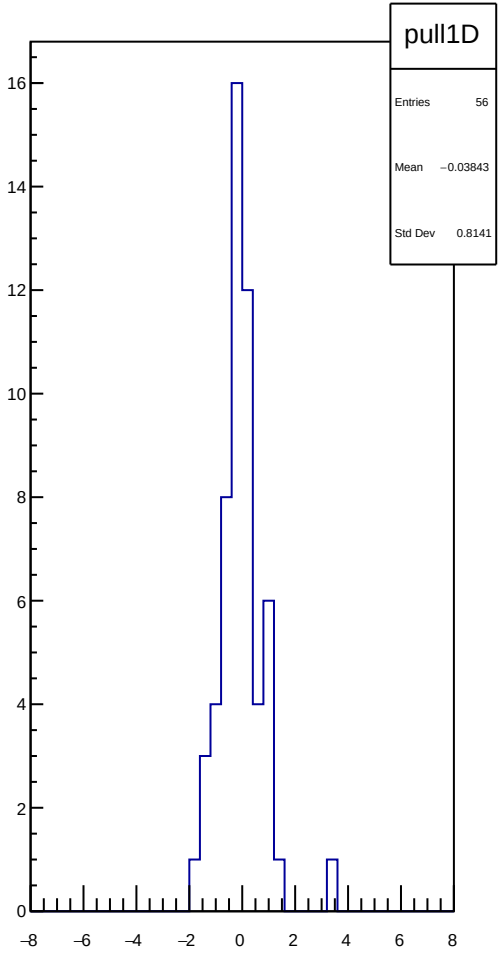

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 93.58 / 55
p0 183.7 ± 0.5458
200
190
180
170
160
150
pull
Entries 56
Mean 9.852
Std Dev 38.21
pull1D
Entries 56
Mean 0.02371
Std Dev 1.293
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

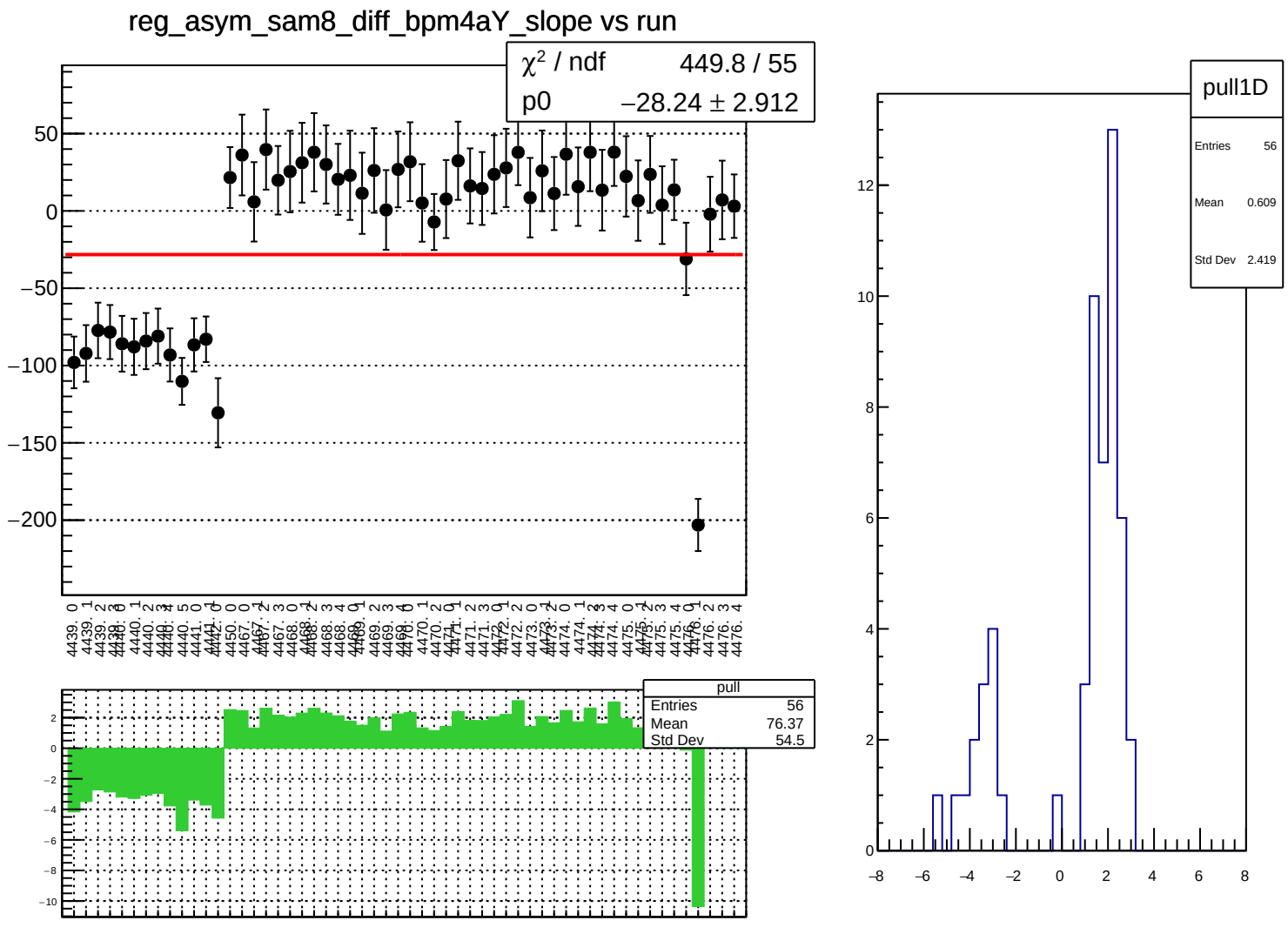

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 151.8 / 55
p0 −54.98 ± 4.09
pull
Entries 56
Mean −13.09
Std Dev 46.53

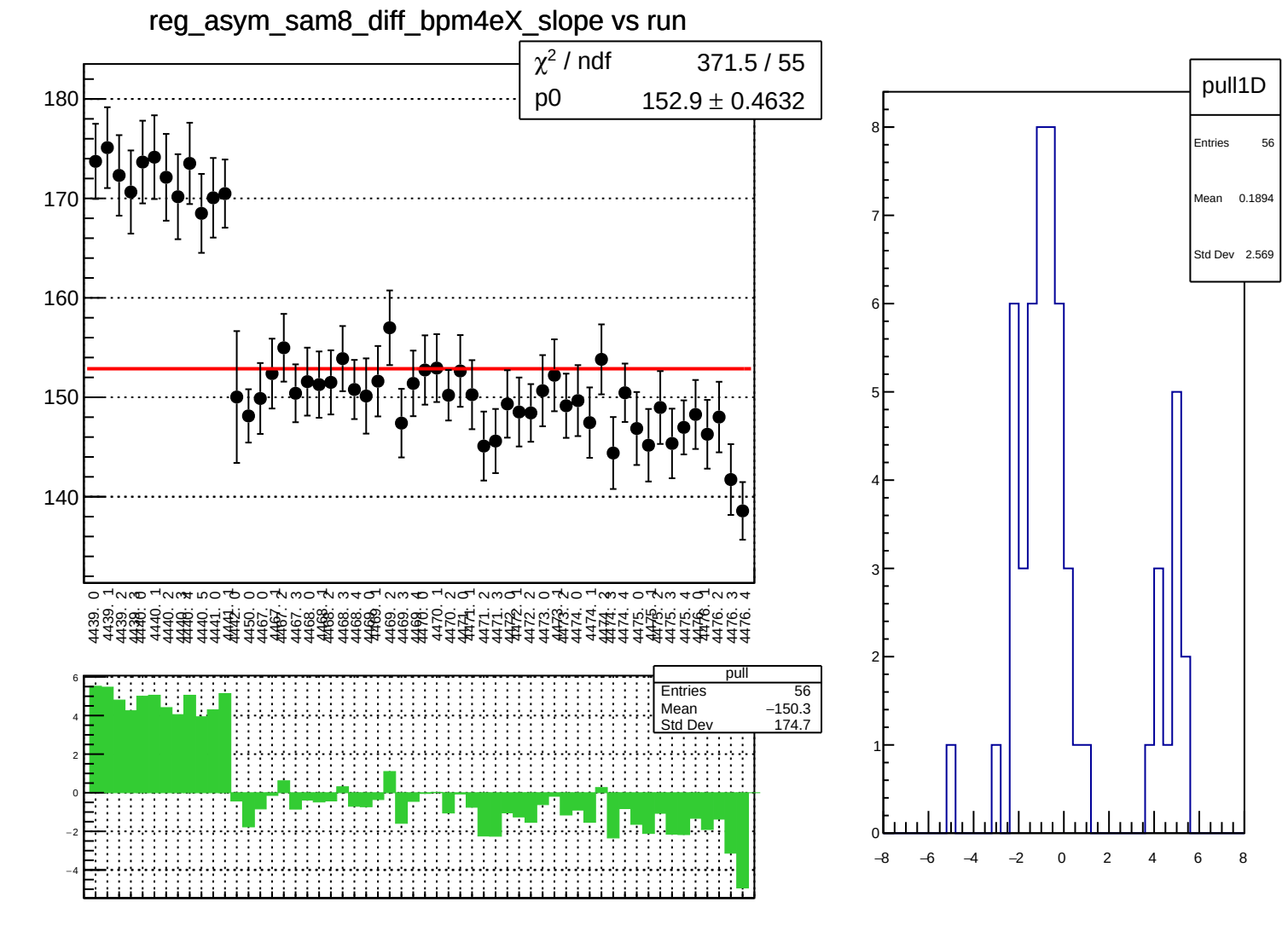

pull1D
Entries 56
Mean −0.3239
Std Dev 0.5773

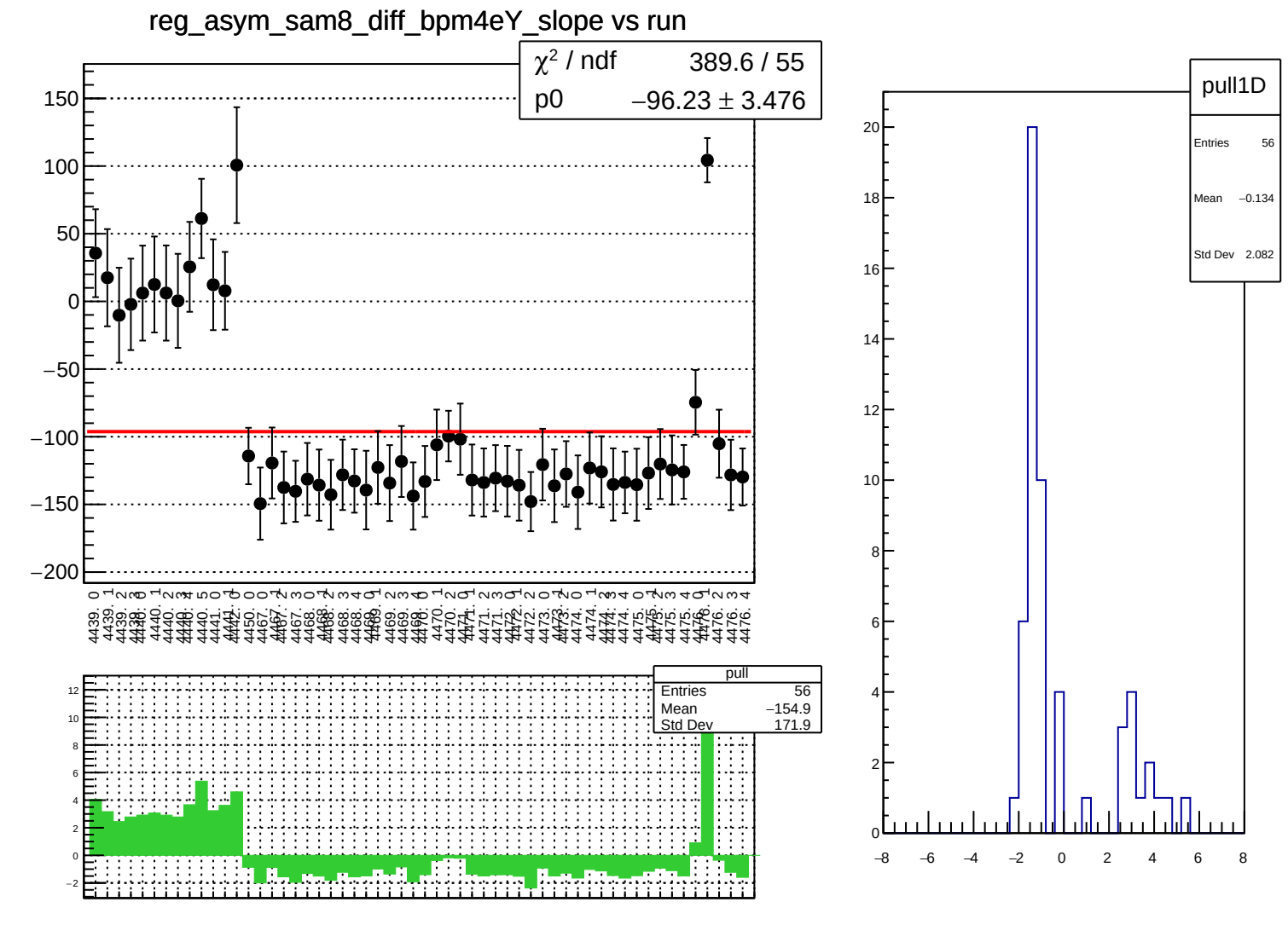

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 46.33 / 55
p0 −0.8462 ± 0.7286
pull
Entries 56
Mean −324.8
Std Dev 345.1
pull1D
Entries 56
Mean 0.02506
Std Dev 0.9093

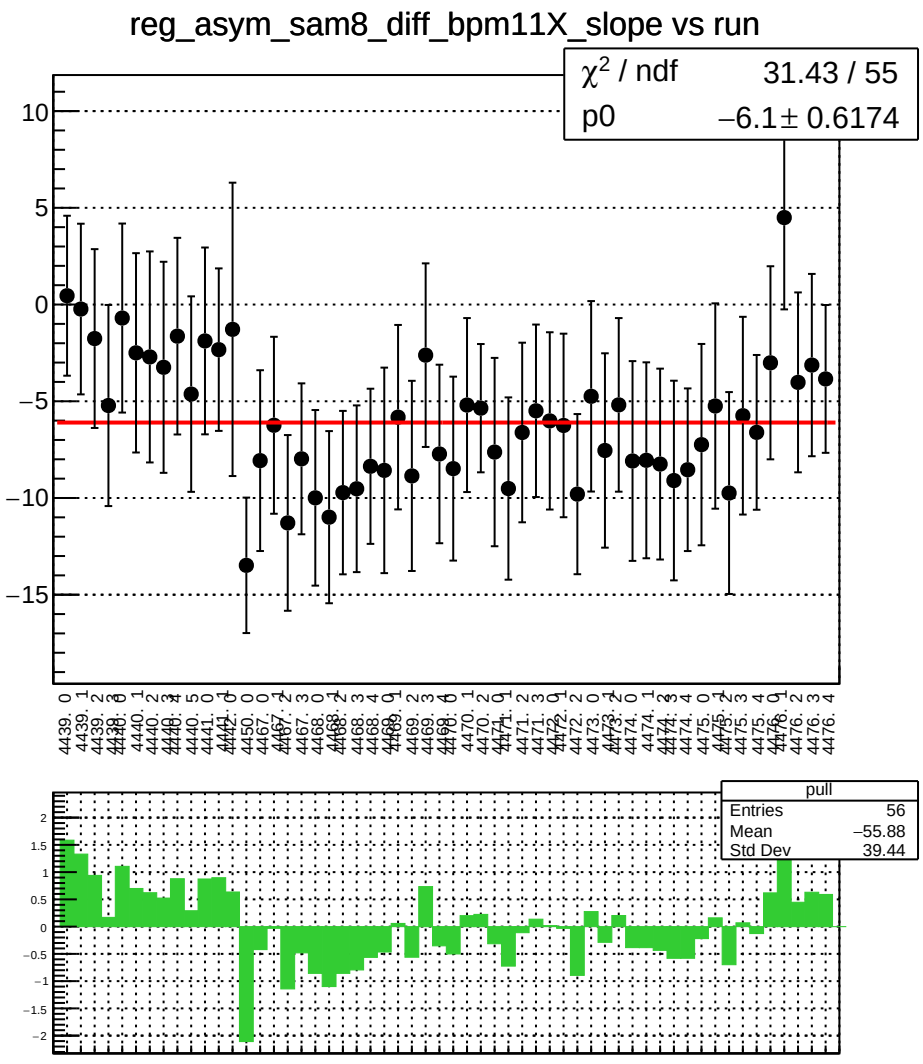

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 37.2 / 55
p0 −63.82 ± 2.623
pull
Entries 56
Mean −90.58
Std Dev 121.8

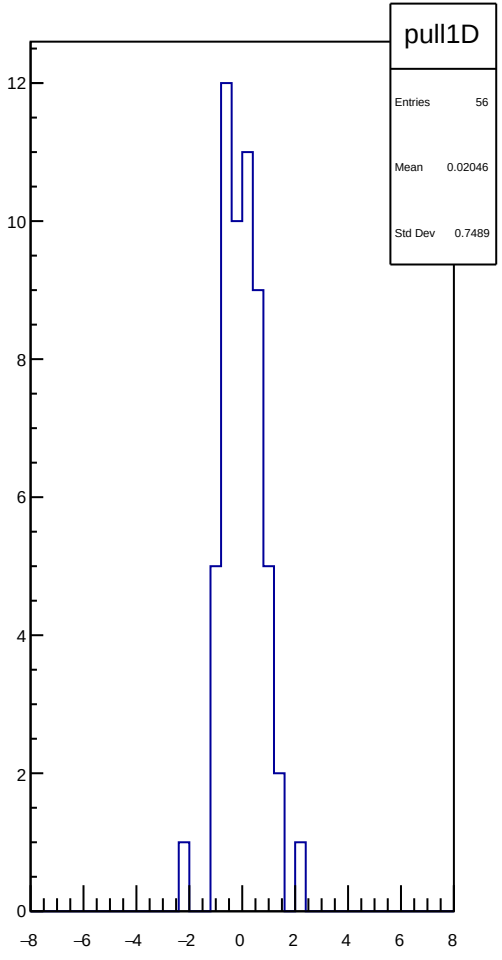

pull1D
Entries 56
Mean −0.03843
Std Dev 0.8141

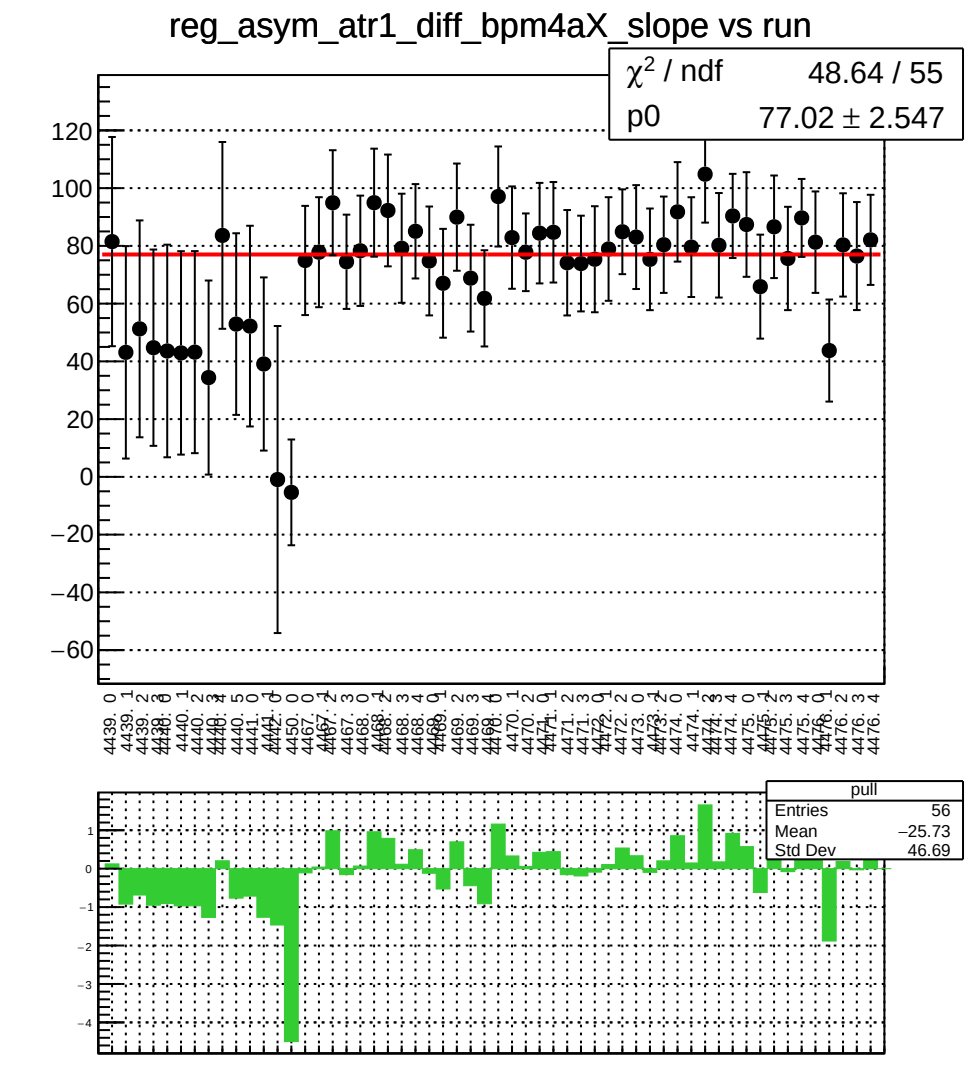

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 449.8 / 55
p0 −28.24 ± 2.912
50
0
−50
−100
−150
−200
pull
Entries 56
Mean 76.37
Std Dev 54.5
2
0
−2
−4
−6
−8
−10
pull1D
Entries 56
Mean 0.609
Std Dev 2.419
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

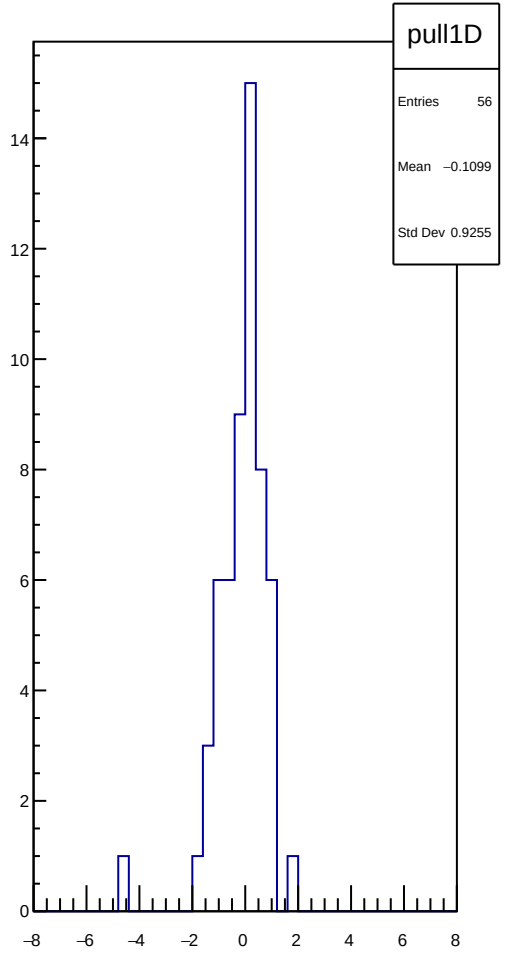

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 371.5 / 55
p0 152.9 ± 0.4632
180
170
160
150
140
pull
Entries 56
Mean −150.3
Std Dev 174.7
6
4
2
0
−2
−4
pull1D
Entries 56
Mean 0.1894
Std Dev 2.569
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

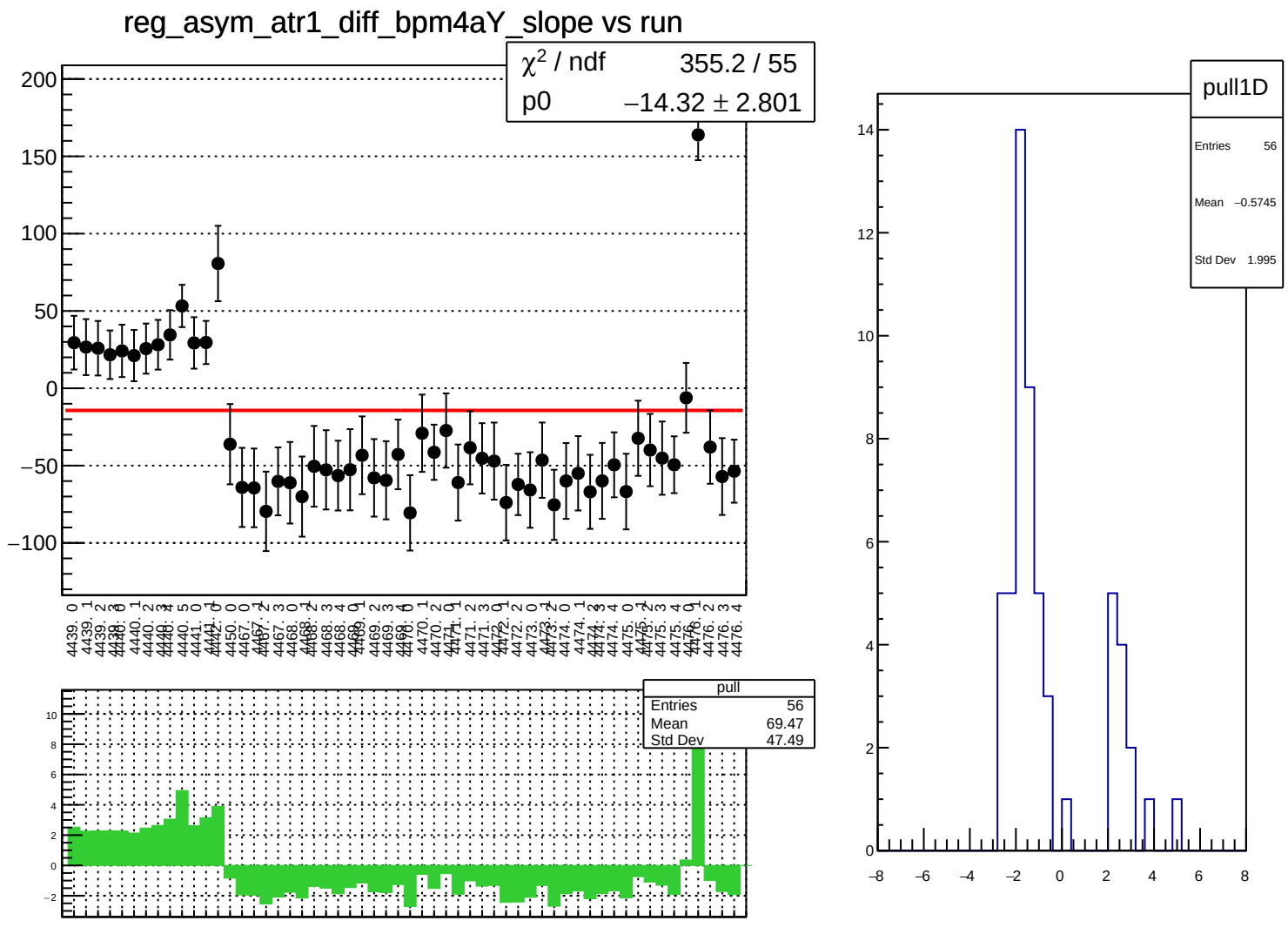

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 389.6 / 55
p0 −96.23 ± 3.476
pull
Entries 56
Mean −154.9
Std Dev 171.9
pull1D
Entries 56
Mean −0.134
Std Dev 2.082

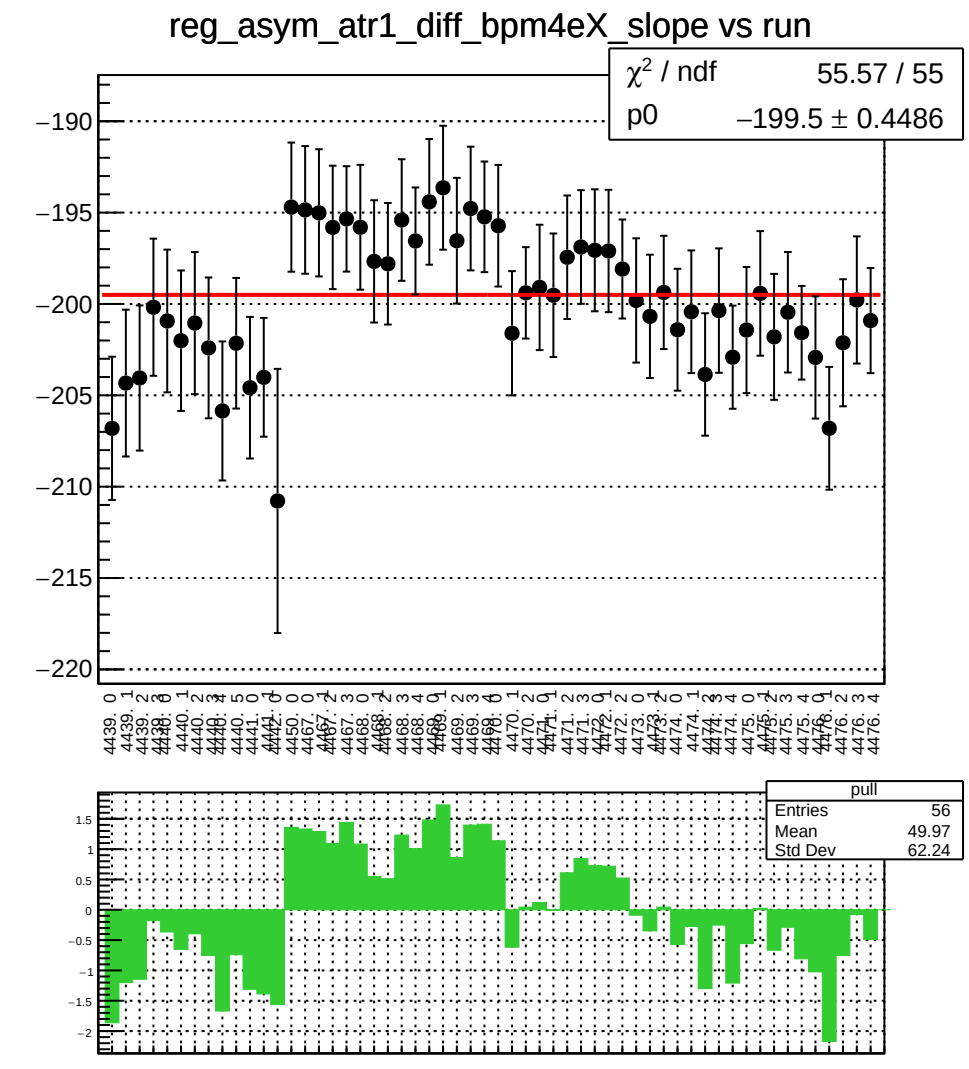

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 31.43 / 55
p0 −6.1 ± 0.6174
pull
Entries 56
Mean −55.88
Std Dev 39.44

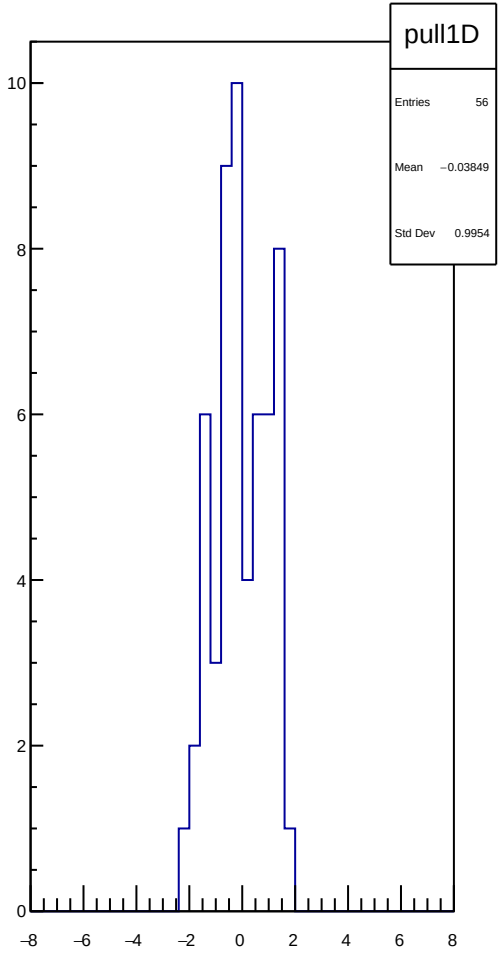

pull1D
Entries 56
Mean 0.02046
Std Dev 0.7489

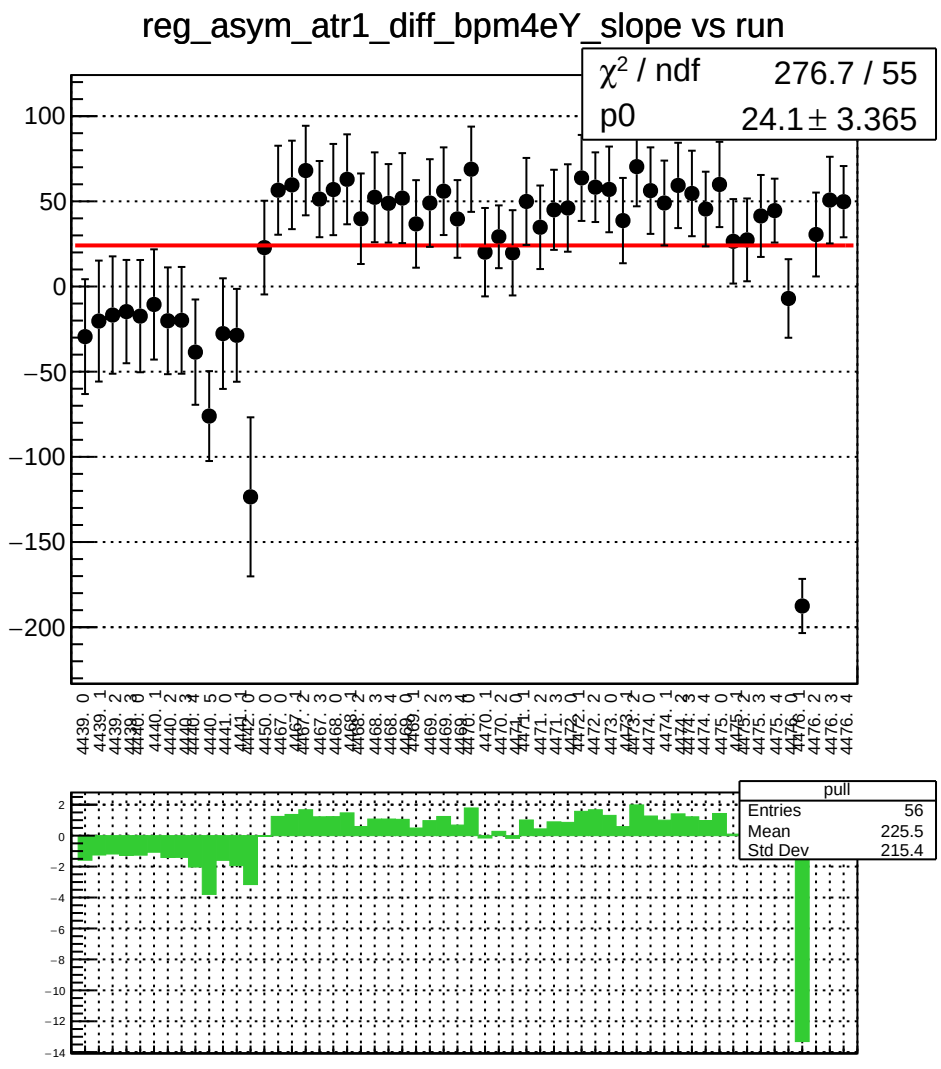

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 48.64 / 55
p0 77.02 ± 2.547
pull
Entries 56
Mean −25.73
Std Dev 46.69

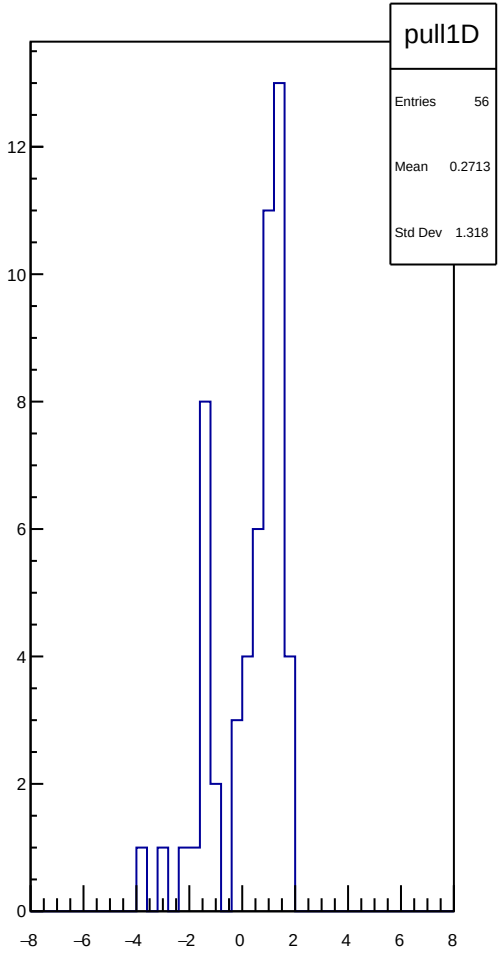

pull1D
Entries 56
Mean −0.1099
Std Dev 0.9255

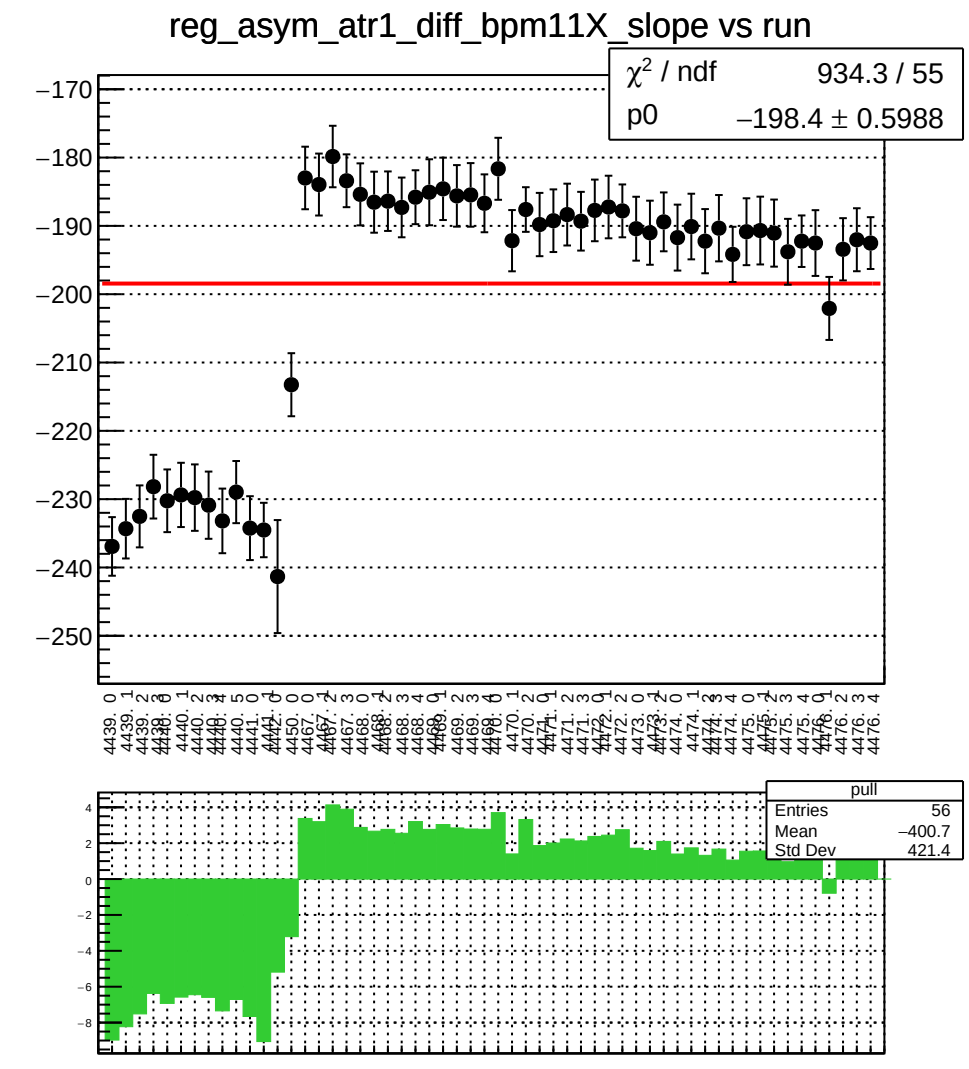

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 355.2 / 55
p0 −14.32 ± 2.801
pull
Entries 56
Mean 69.47
Std Dev 47.49
pull1D
Entries 56
Mean −0.5745
Std Dev 1.995

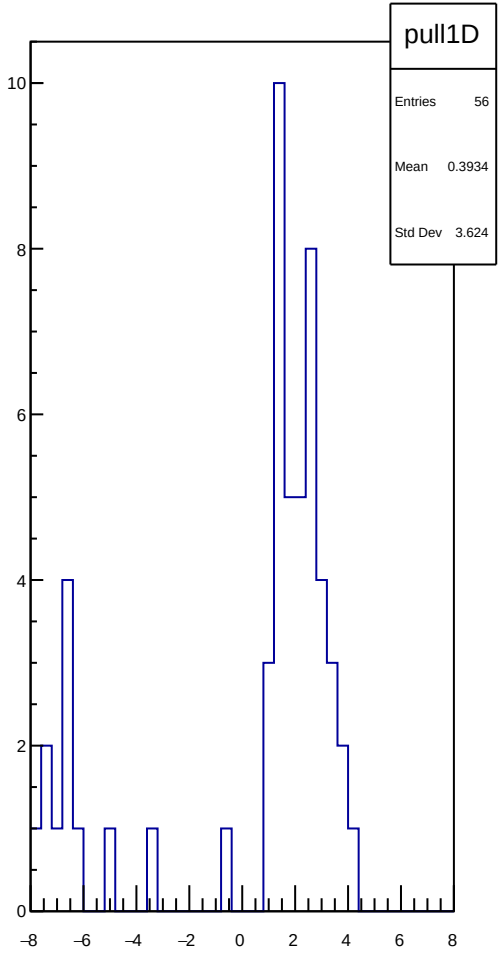

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 55.57 / 55
p0 −199.5 ± 0.4486
pull
Entries 56
Mean 49.97
Std Dev 62.24

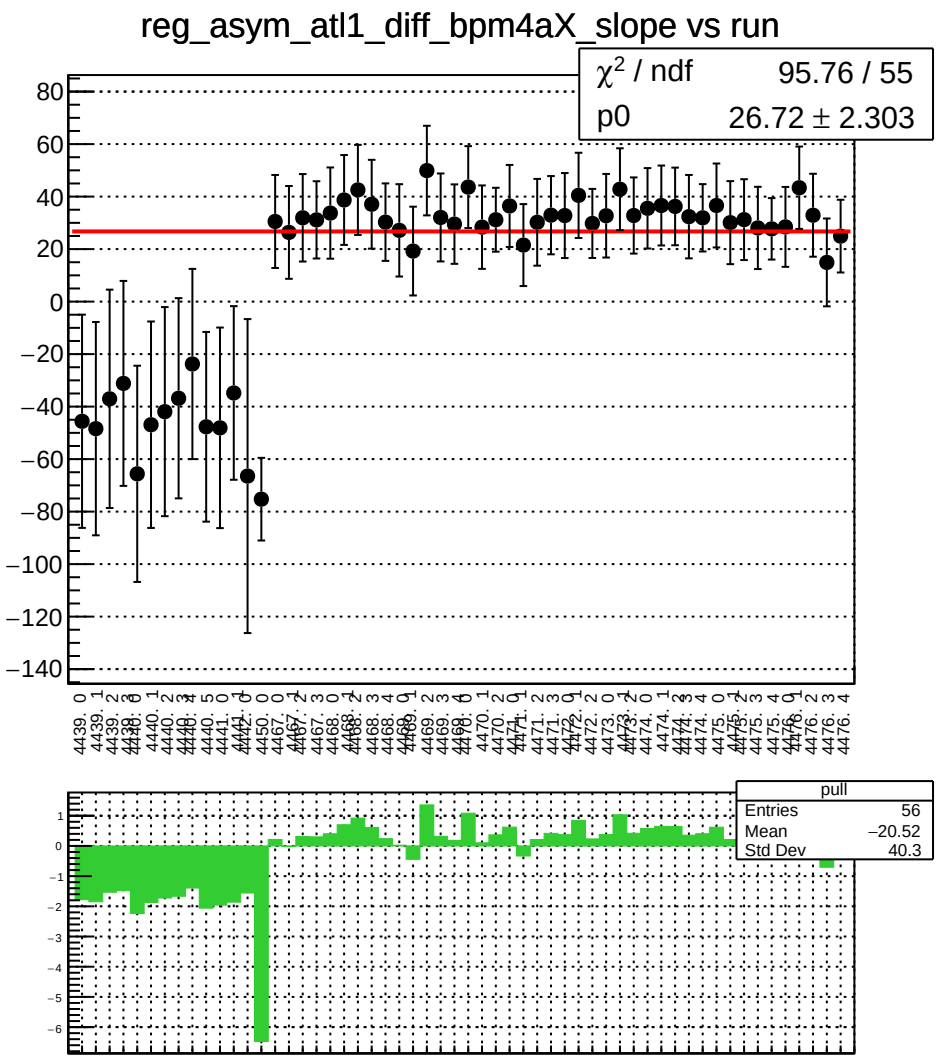

pull1D
Entries 56
Mean −0.03849
Std Dev 0.9954

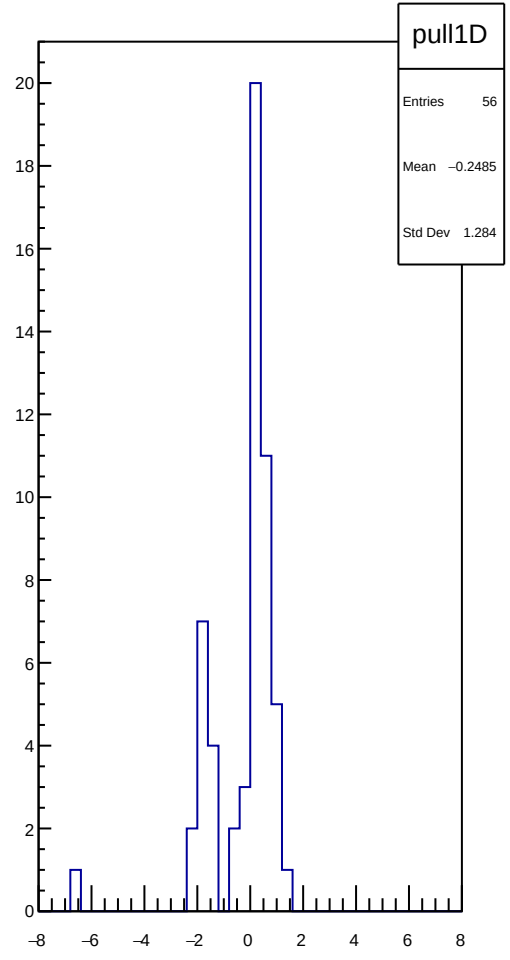

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 276.7 / 55
p0 24.1 ± 3.365
pull
Entries 56
Mean 225.5
Std Dev 215.4

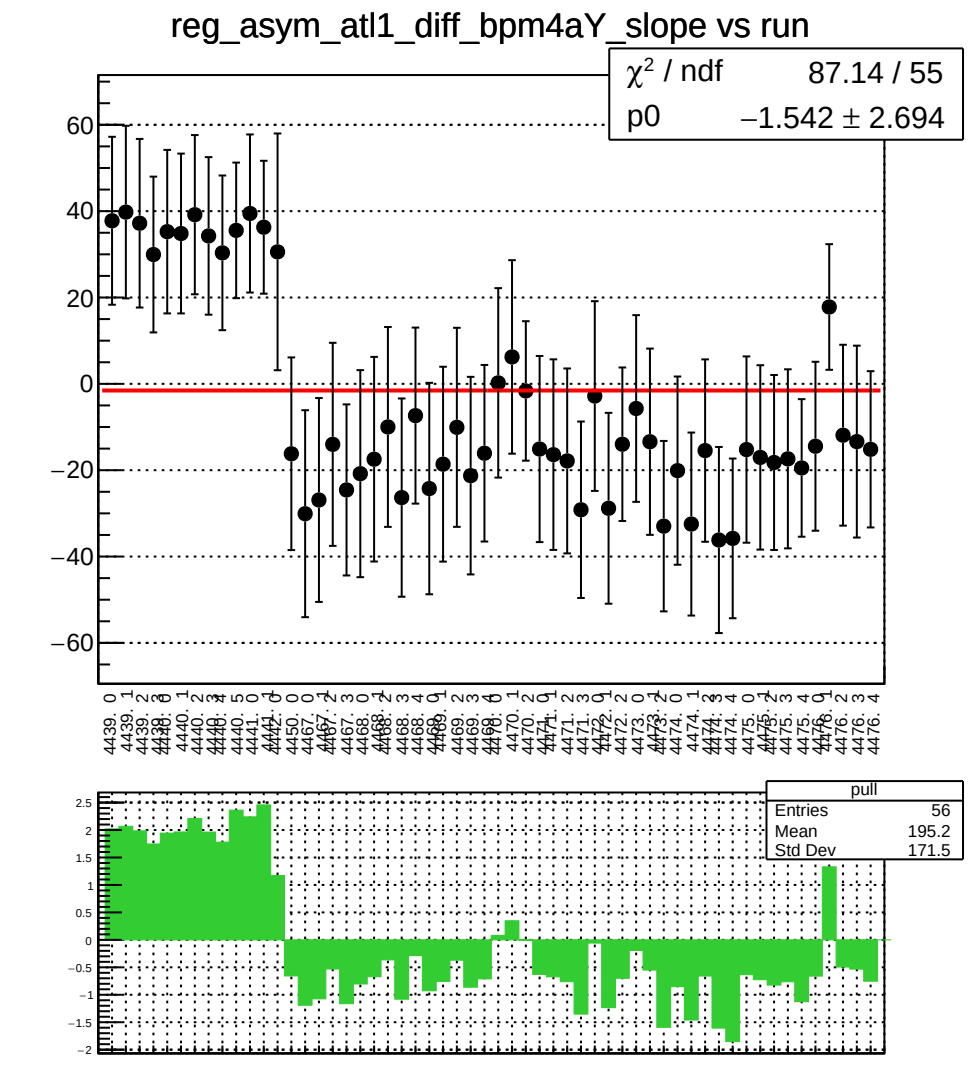

pull1D
Entries 56
Mean 0.2713
Std Dev 1.318

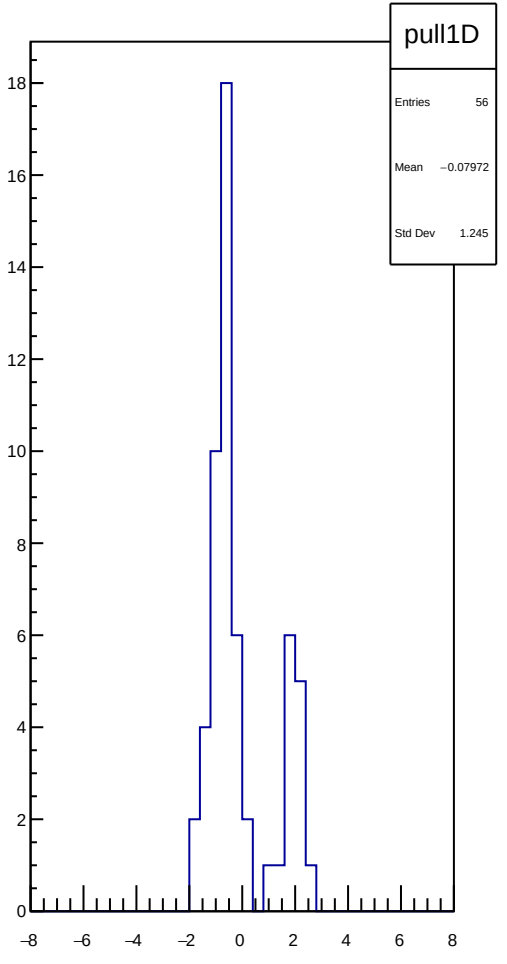

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 934.3 / 55
p0 −198.4 ± 0.5988
pull
Entries 56
Mean −400.7
Std Dev 421.4

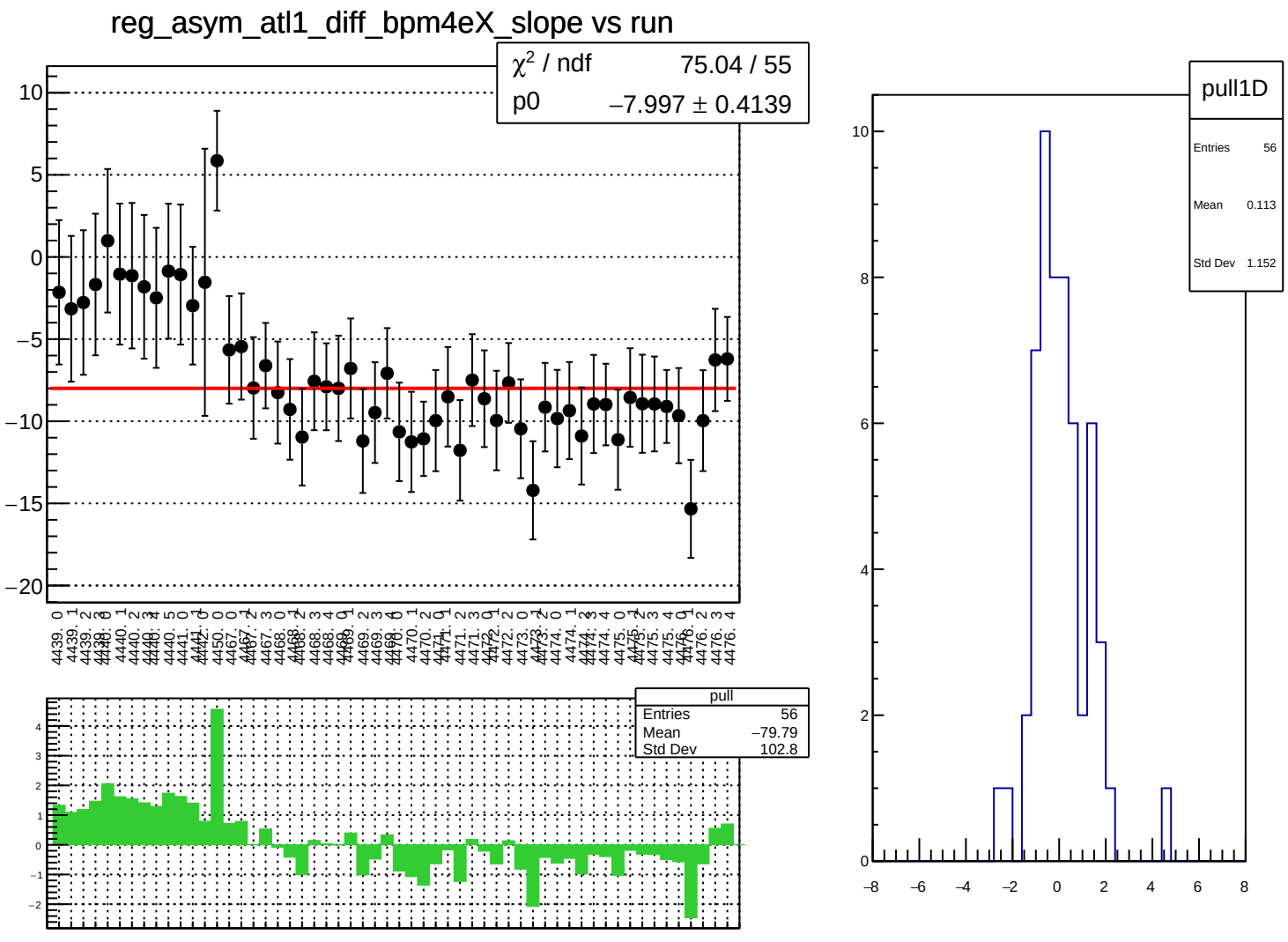

pull1D
Entries 56
Mean 0.3934
Std Dev 3.624

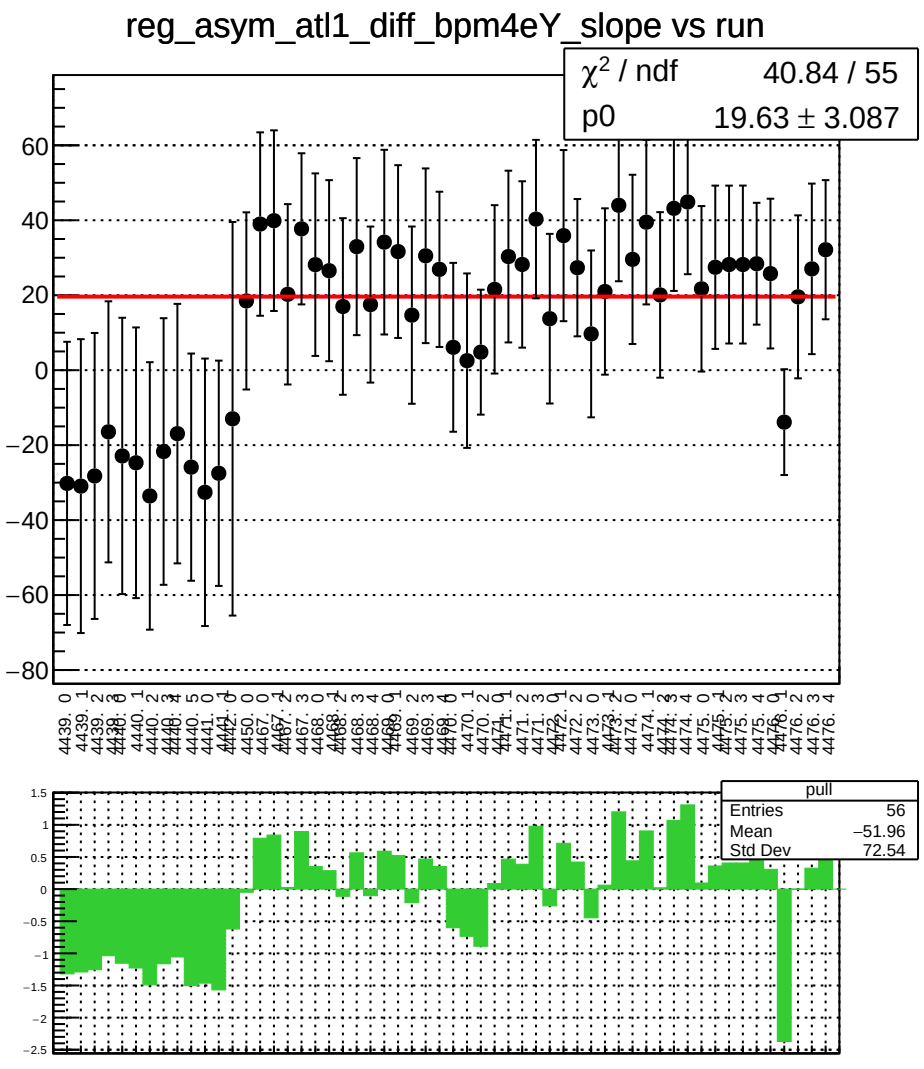

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 95.76 / 55
p0 26.72 ± 2.303
pull
Entries 56
Mean −20.52
Std Dev 40.3

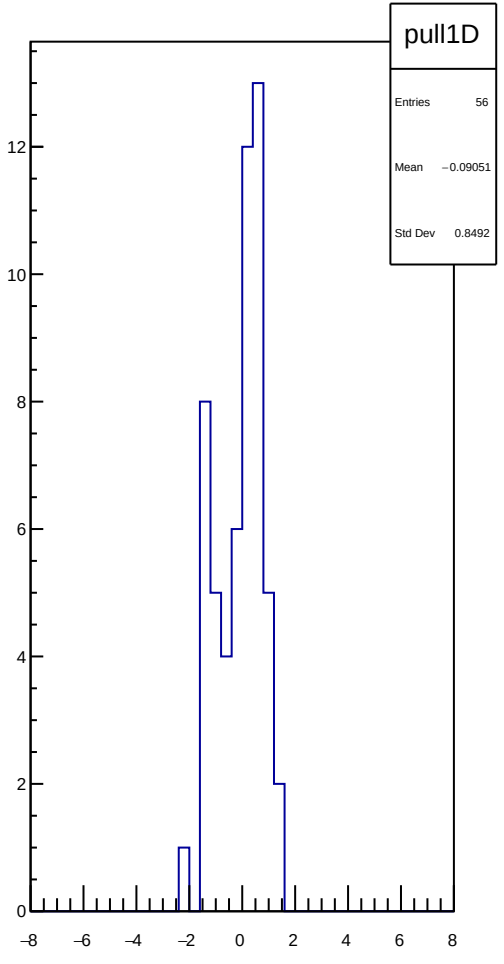

pull1D
Entries 56
Mean −0.2485
Std Dev 1.284

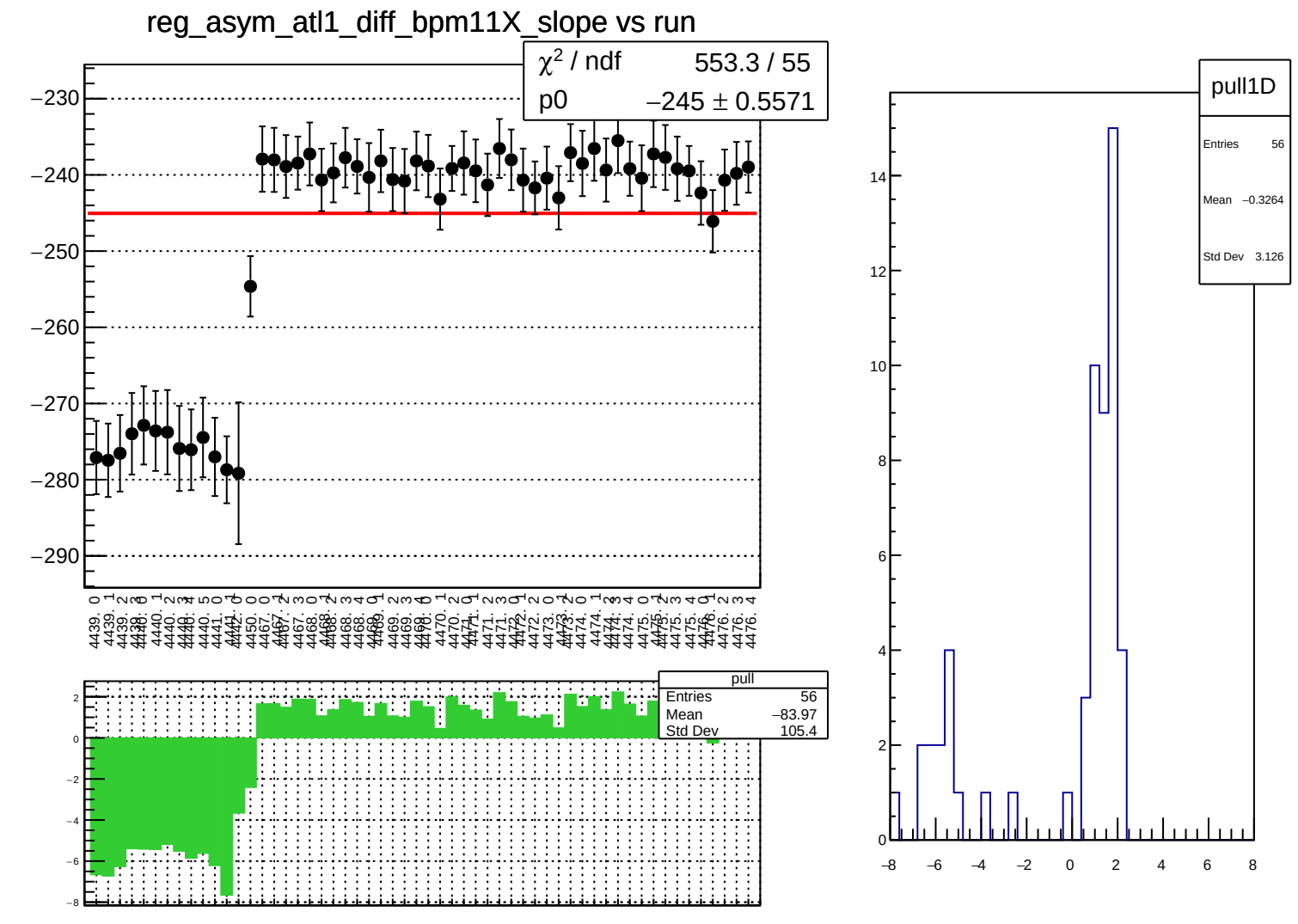

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 87.14 / 55
p0 −1.542 ± 2.694
pull
Entries 56
Mean 195.2
Std Dev 171.5

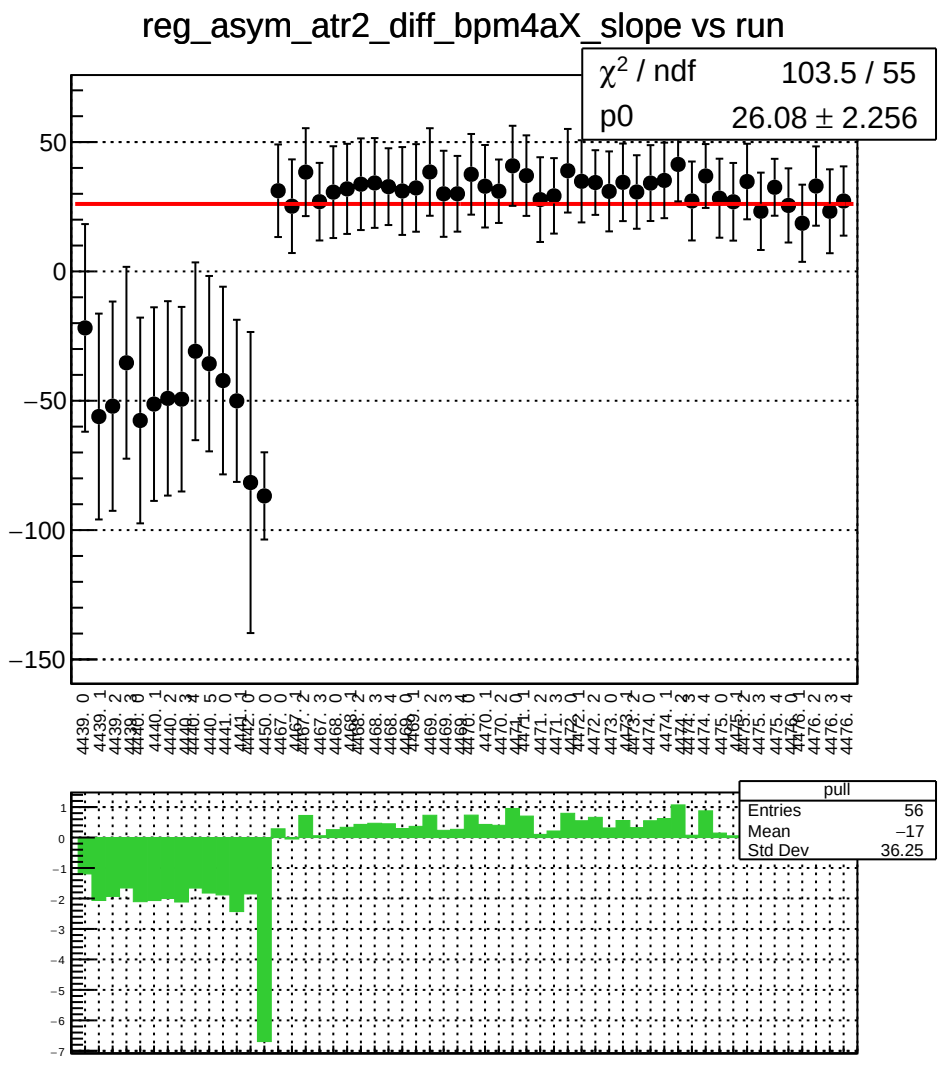

pull1D
Entries 56
Mean −0.07972
Std Dev 1.245

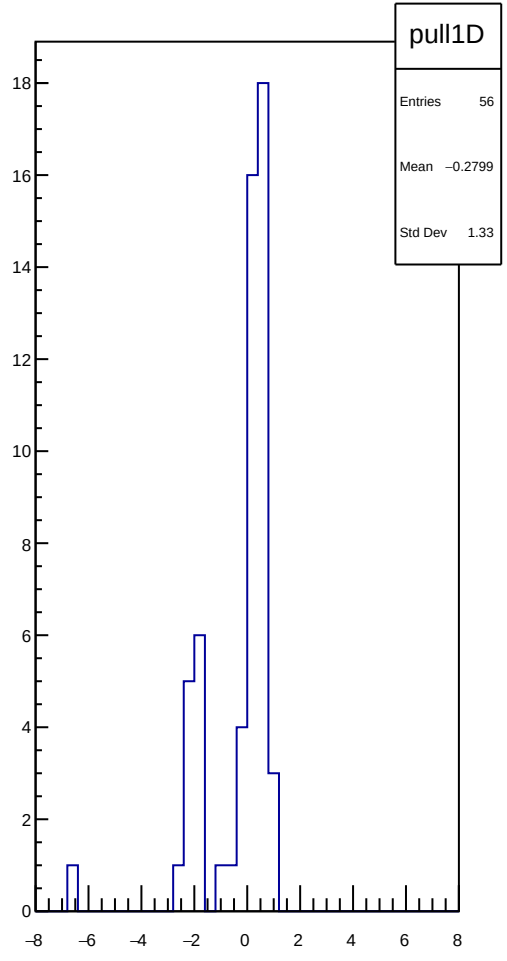

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 75.04 / 55
p0 −7.997 ± 0.4139
pull
Entries 56
Mean −79.79
Std Dev 102.8
pull1D
Entries 56
Mean 0.113
Std Dev 1.152

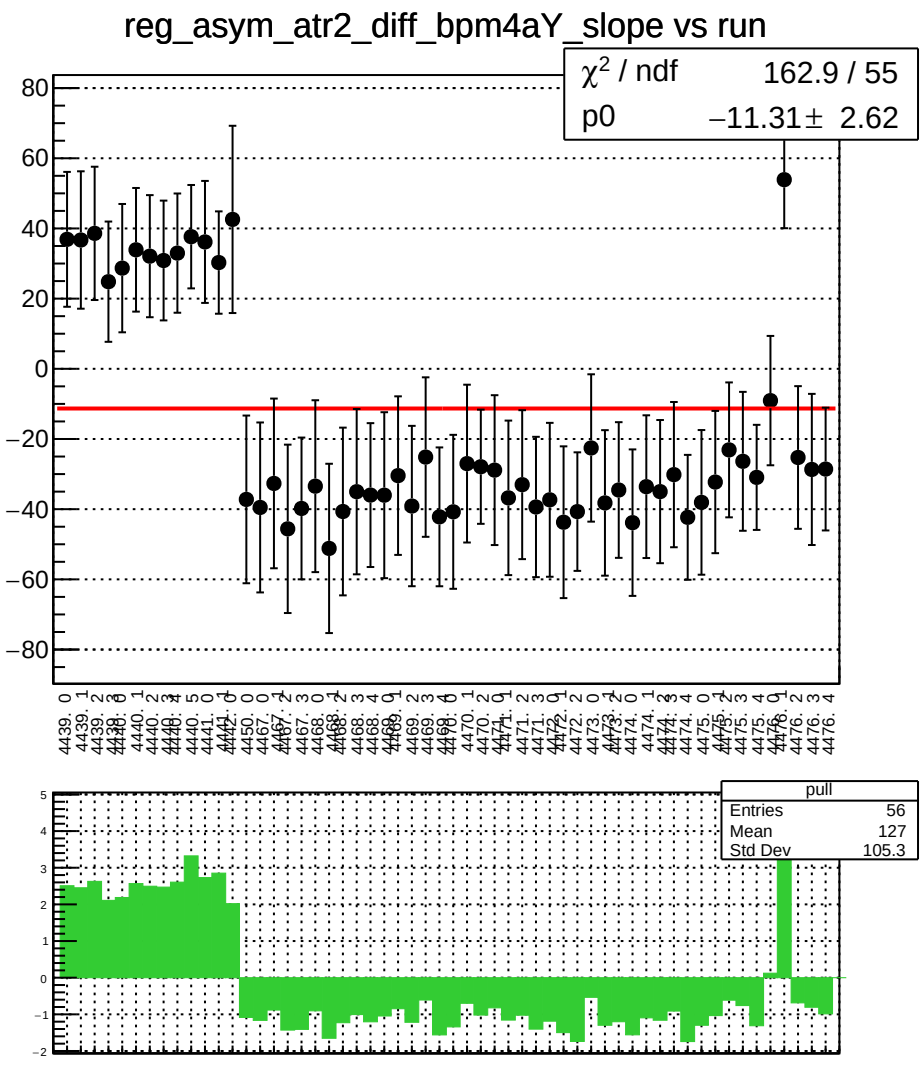

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 40.84 / 55
p0 19.63 ± 3.087
pull
Entries 56
Mean −51.96
Std Dev 72.54

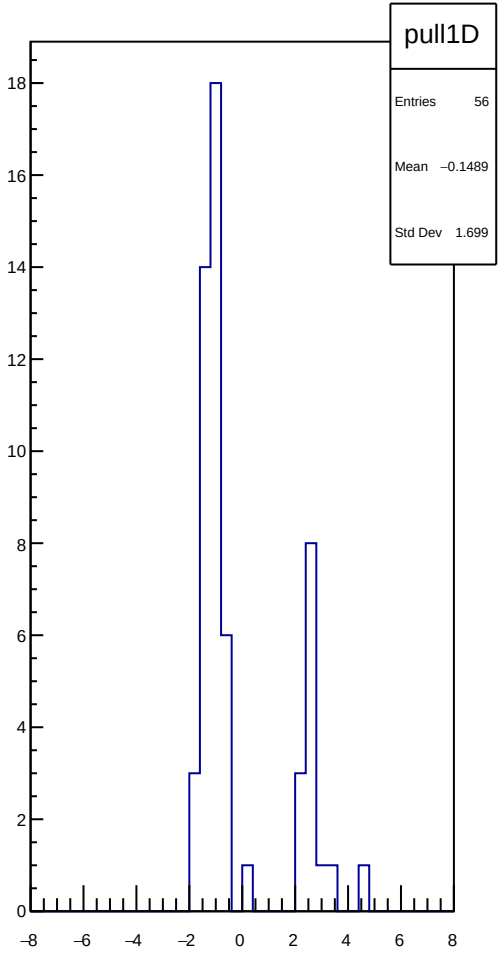

pull1D
Entries 56
Mean −0.09051
Std Dev 0.8492

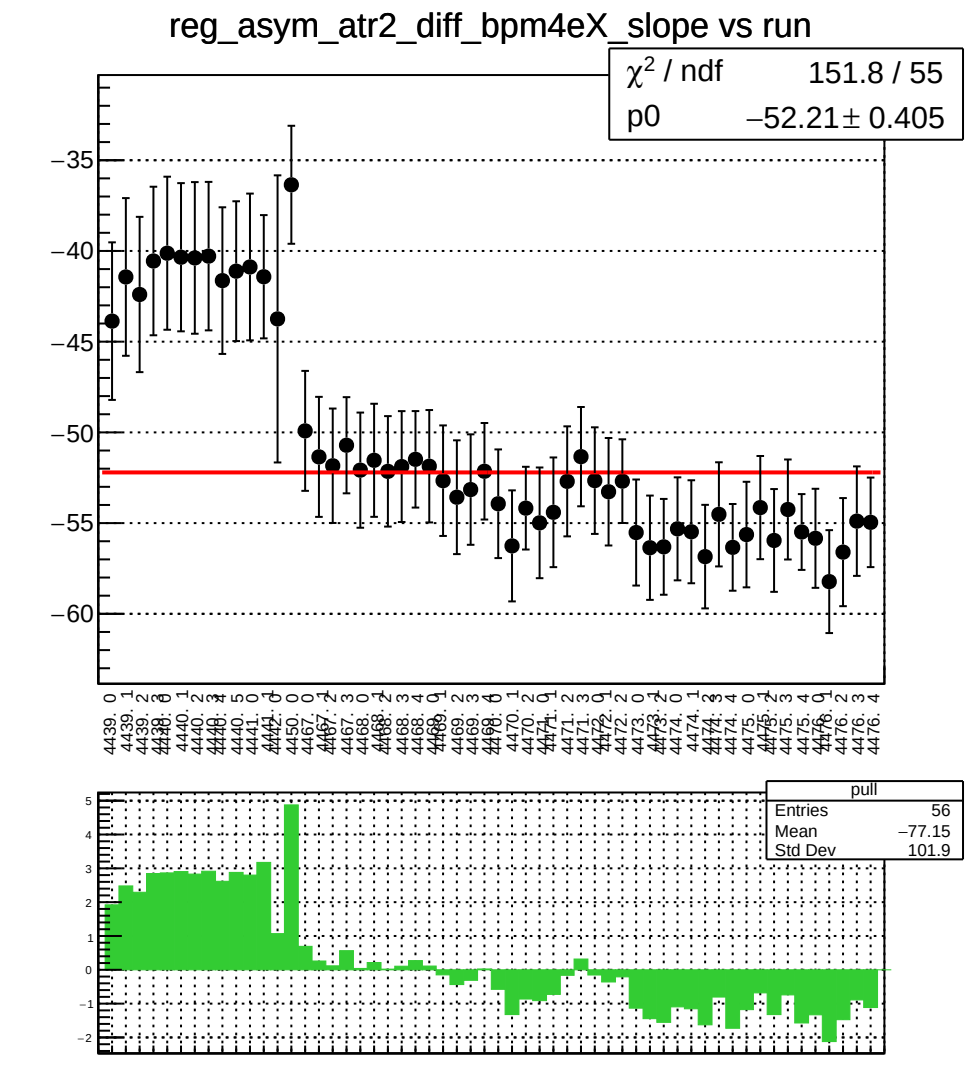

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 553.3 / 55
p0 −245 ± 0.5571
pull
Entries 56
Mean −83.97
Std Dev 105.4
pull1D
Entries 56
Mean −0.3264
Std Dev 3.126

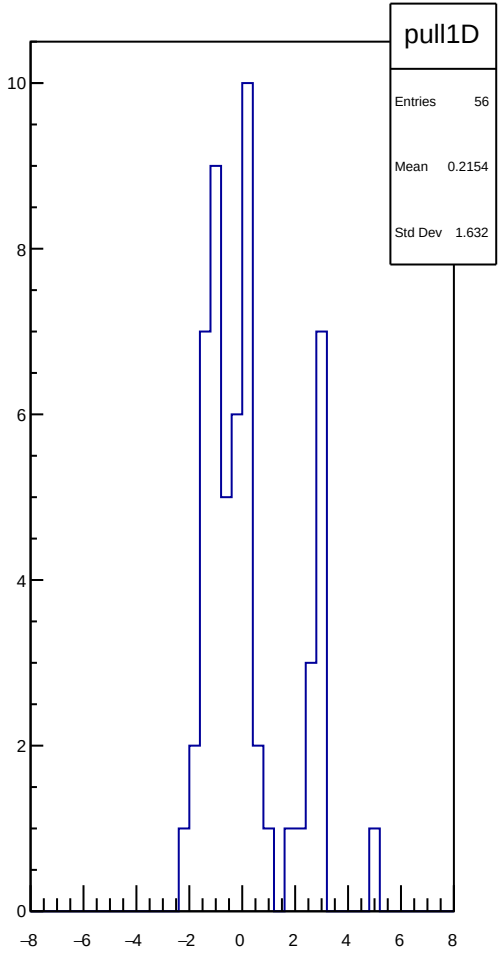

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 103.5 / 55
p0 26.08 ± 2.256
50
0
−50
−100
−150
pull
Entries 56
Mean −17
Std Dev 36.25
1
0
−1
−2
−3
−4
−5
−6
−7

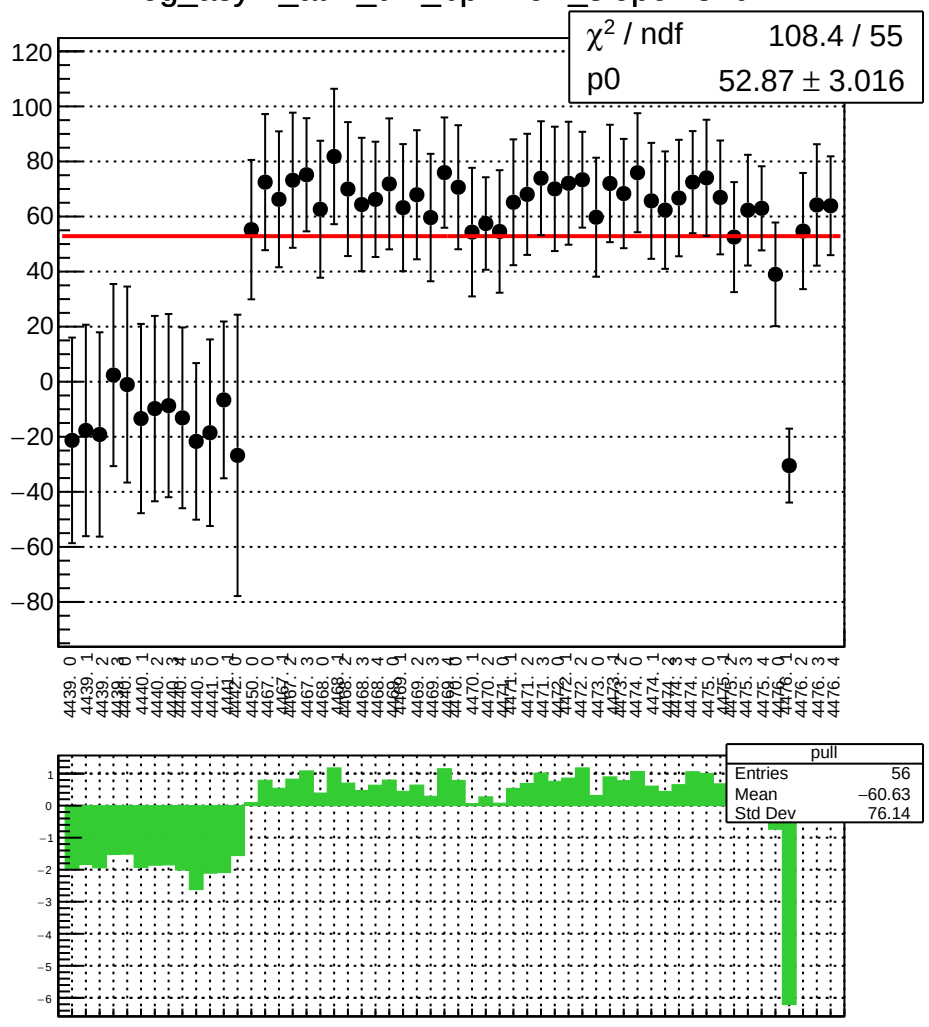

pull1D
Entries 56
Mean −0.2799
Std Dev 1.33
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

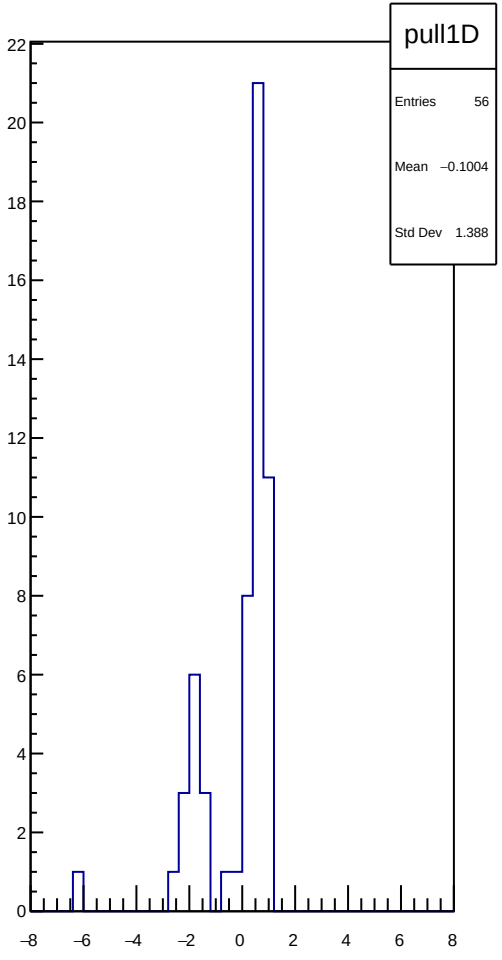

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 162.9 / 55
p0 −11.31± 2.62
pull
Entries 56
Mean 127
Std Dev 105.3

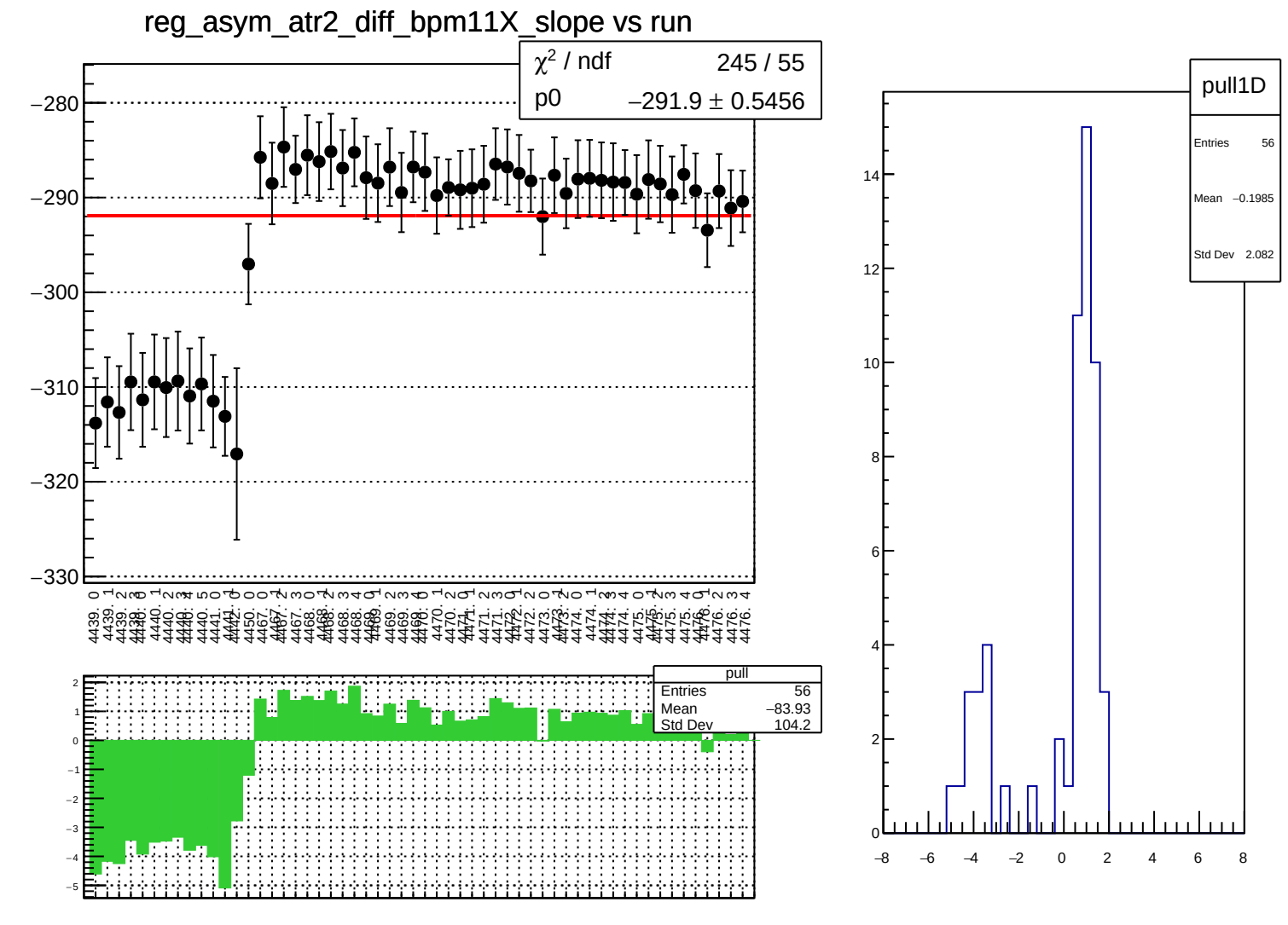

pull1D
Entries 56
Mean −0.1489
Std Dev 1.699

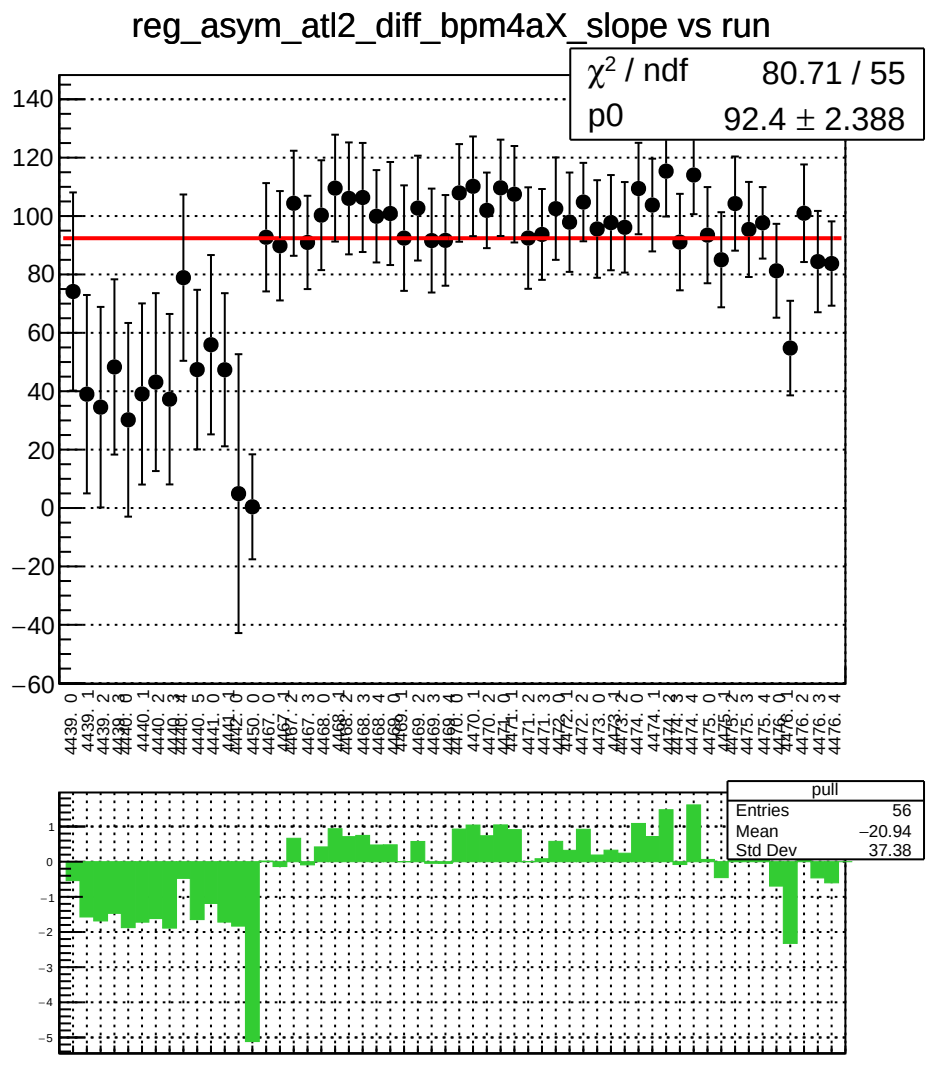

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 151.8 / 55
p0 −52.21± 0.405
pull
Entries 56
Mean −77.15
Std Dev 101.9

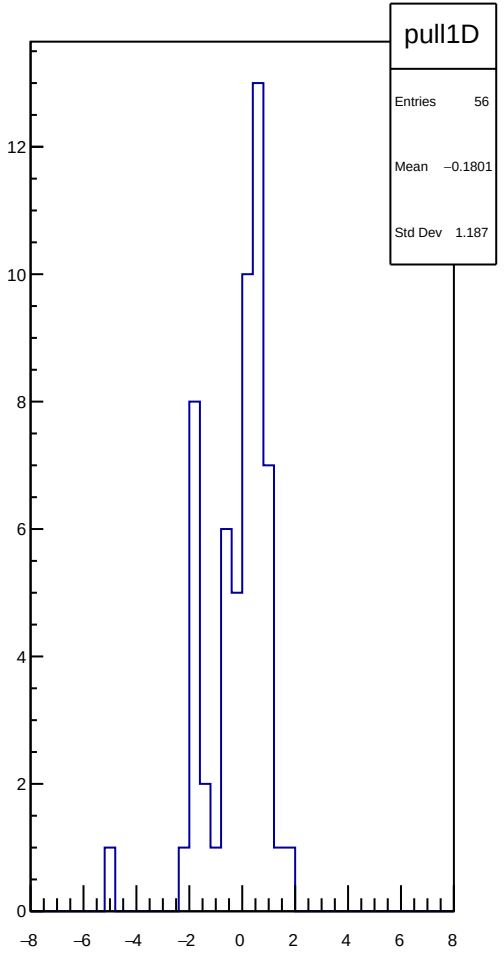

pull1D
Entries 56
Mean 0.2154
Std Dev 1.632

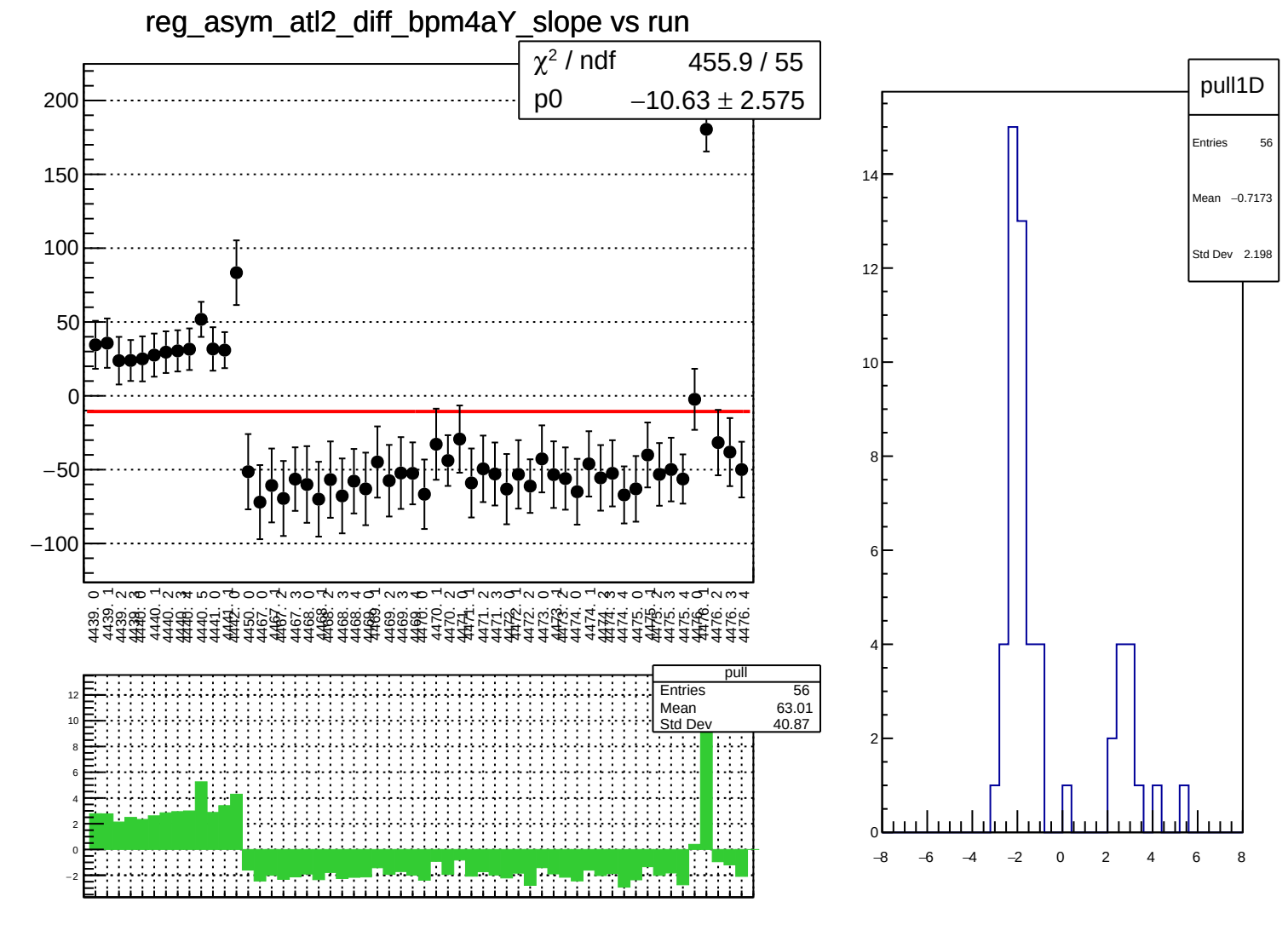

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 108.4 / 55
p0 52.87 ± 3.016
pull
Entries 56
Mean −60.63
Std Dev 76.14

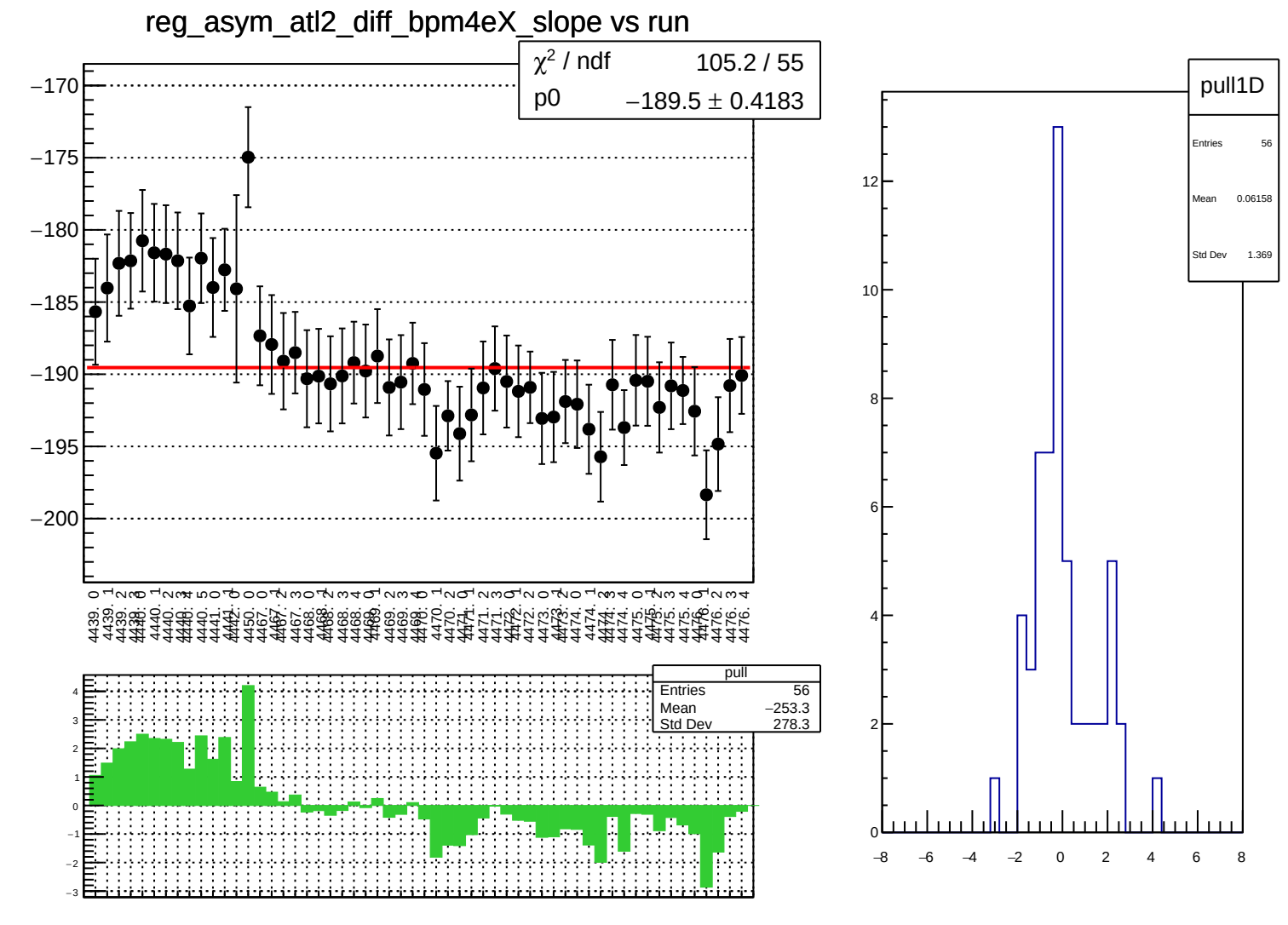

pull1D
Entries 56
Mean −0.1004
Std Dev 1.388

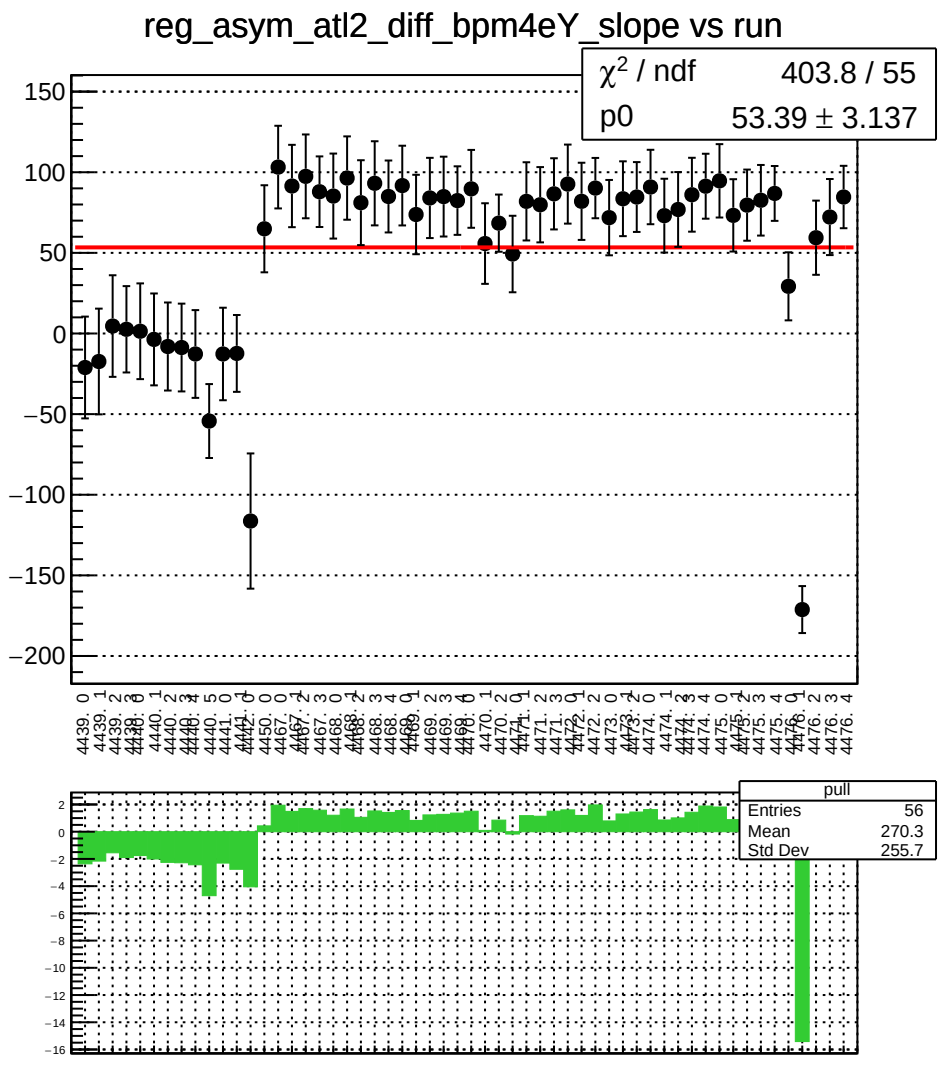

reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 245 / 55
p0 −291.9 ± 0.5456
pull
Entries 56
Mean −83.93
Std Dev 104.2
pull1D
Entries 56
Mean −0.1985
Std Dev 2.082

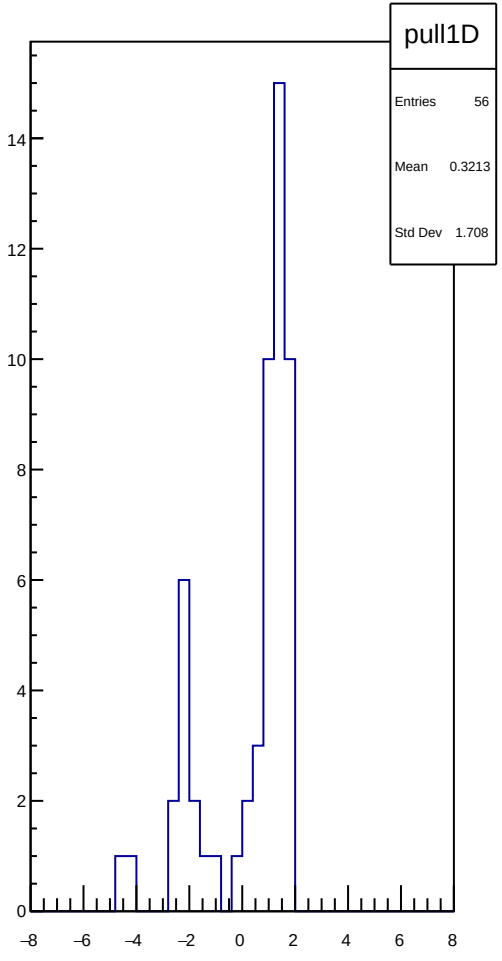

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 80.71 / 55
p0 92.4 ± 2.388
pull
Entries 56
Mean −20.94
Std Dev 37.38

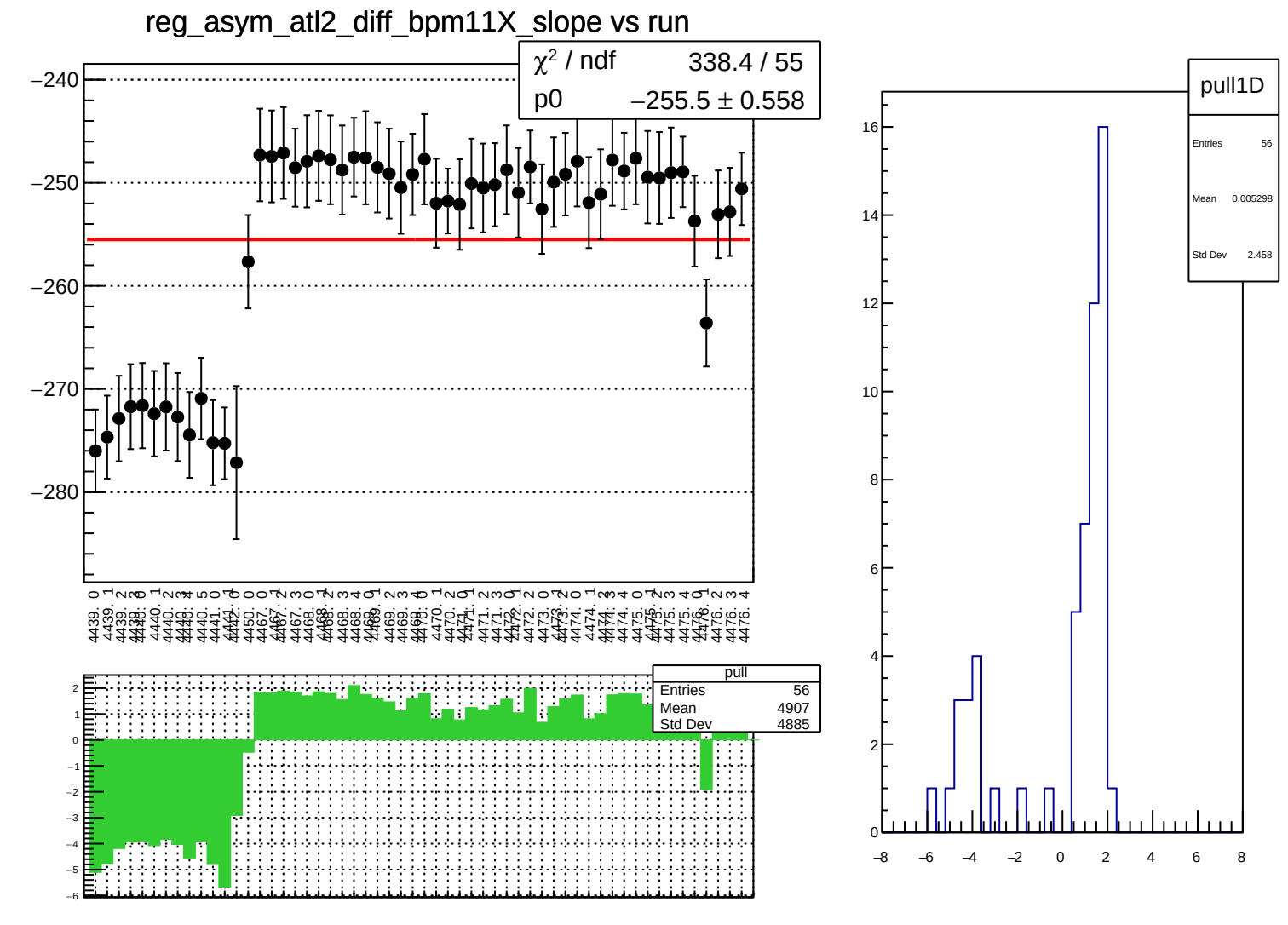

pull1D
Entries 56
Mean −0.1801
Std Dev 1.187

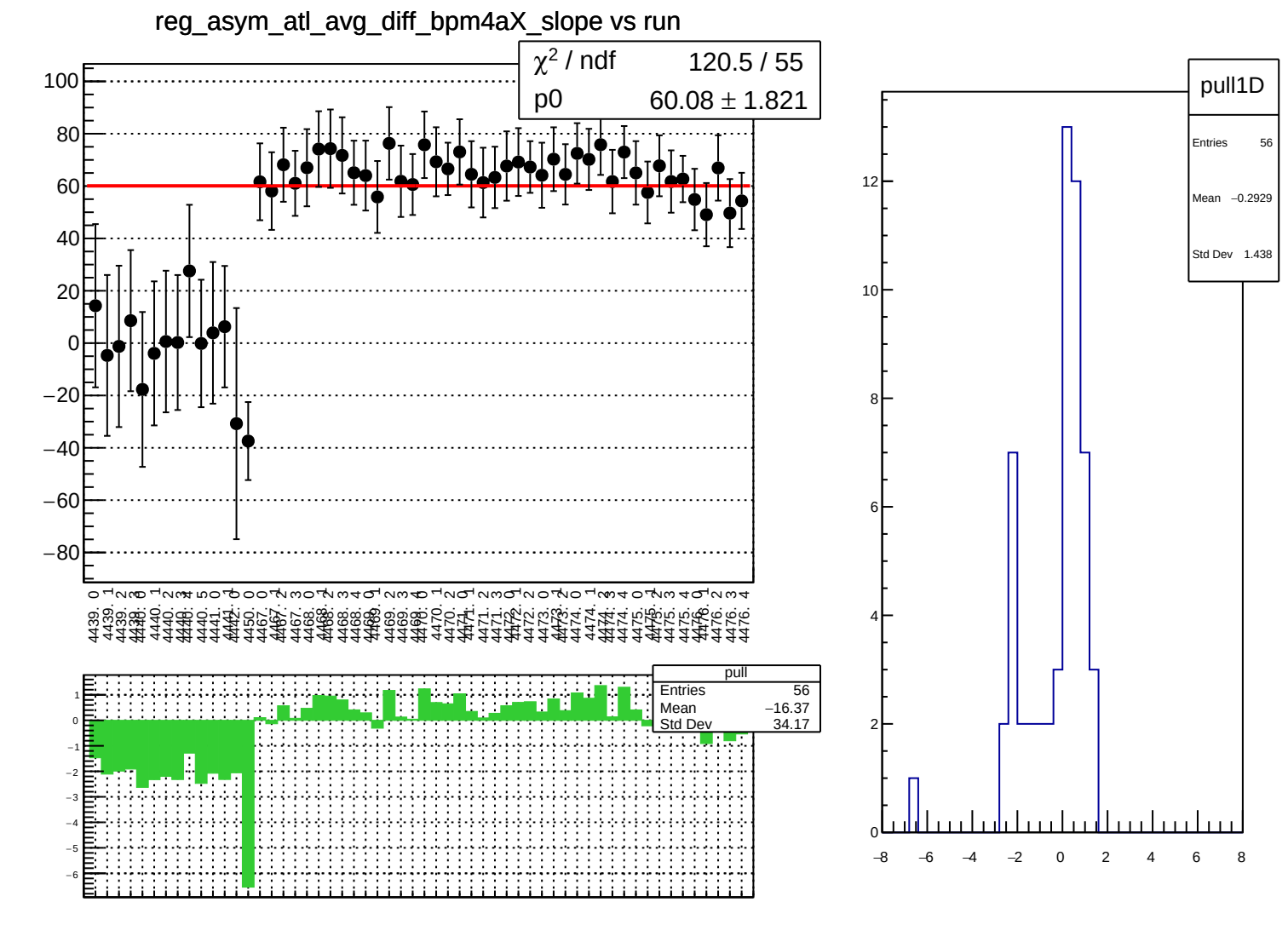

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 455.9 / 55
p0 −10.63 ± 2.575
pull
Entries 56
Mean 63.01
Std Dev 40.87
pull1D
Entries 56
Mean −0.7173
Std Dev 2.198

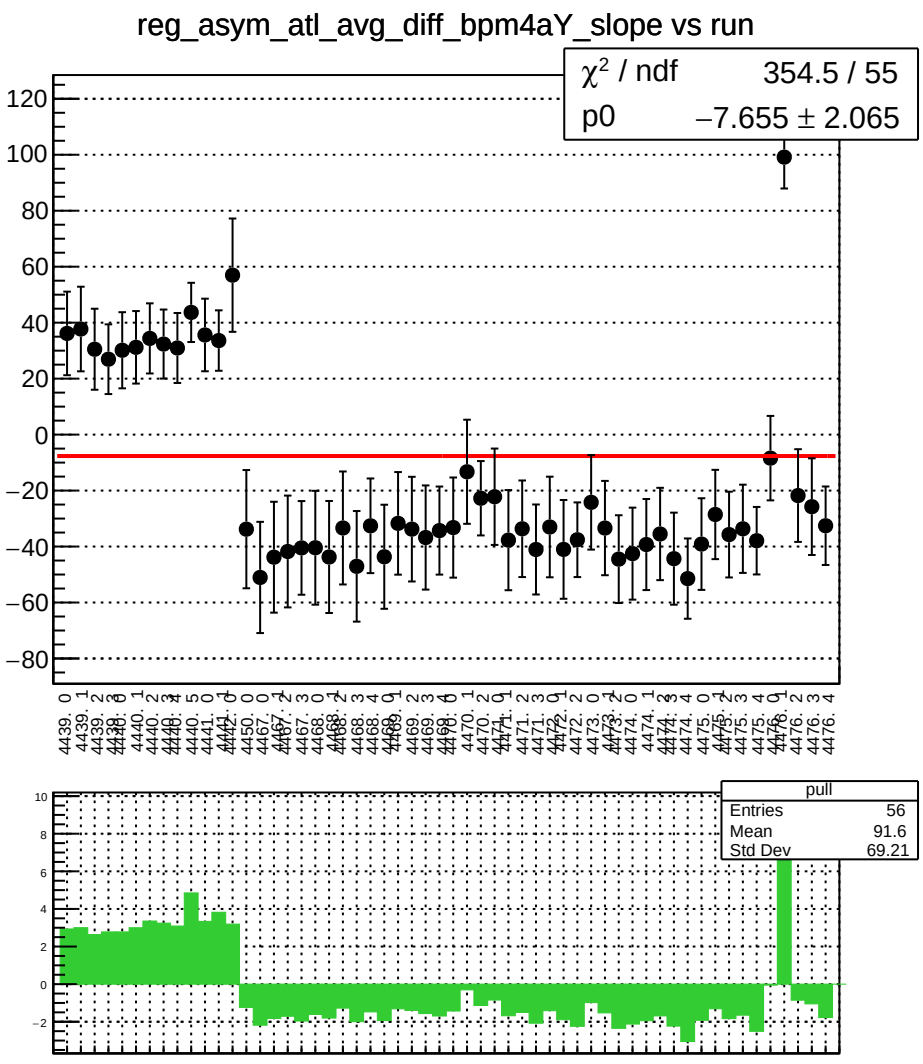

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 105.2 / 55
p0 −189.5 ± 0.4183
pull
Entries 56
Mean −253.3
Std Dev 278.3
pull1D
Entries 56
Mean 0.06158
Std Dev 1.369

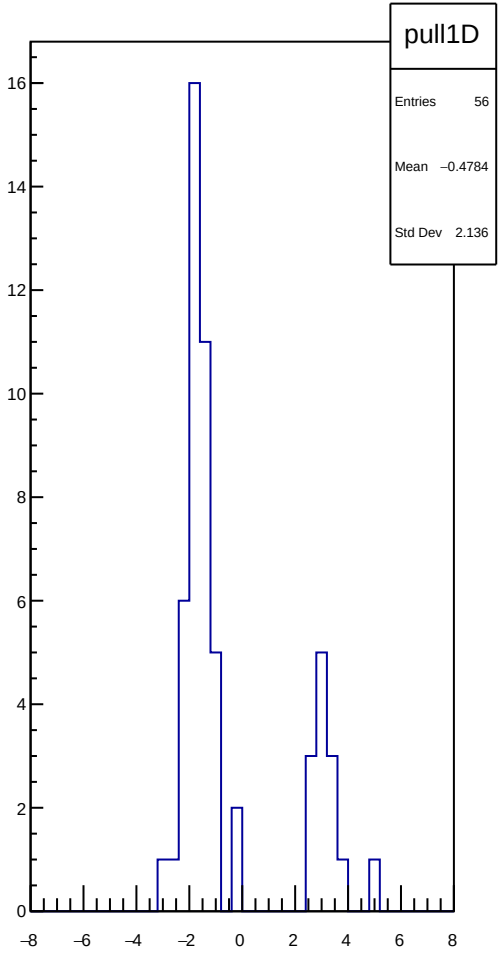

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 403.8 / 55
p0 53.39 ± 3.137
pull
Entries 56
Mean 270.3
Std Dev 255.7

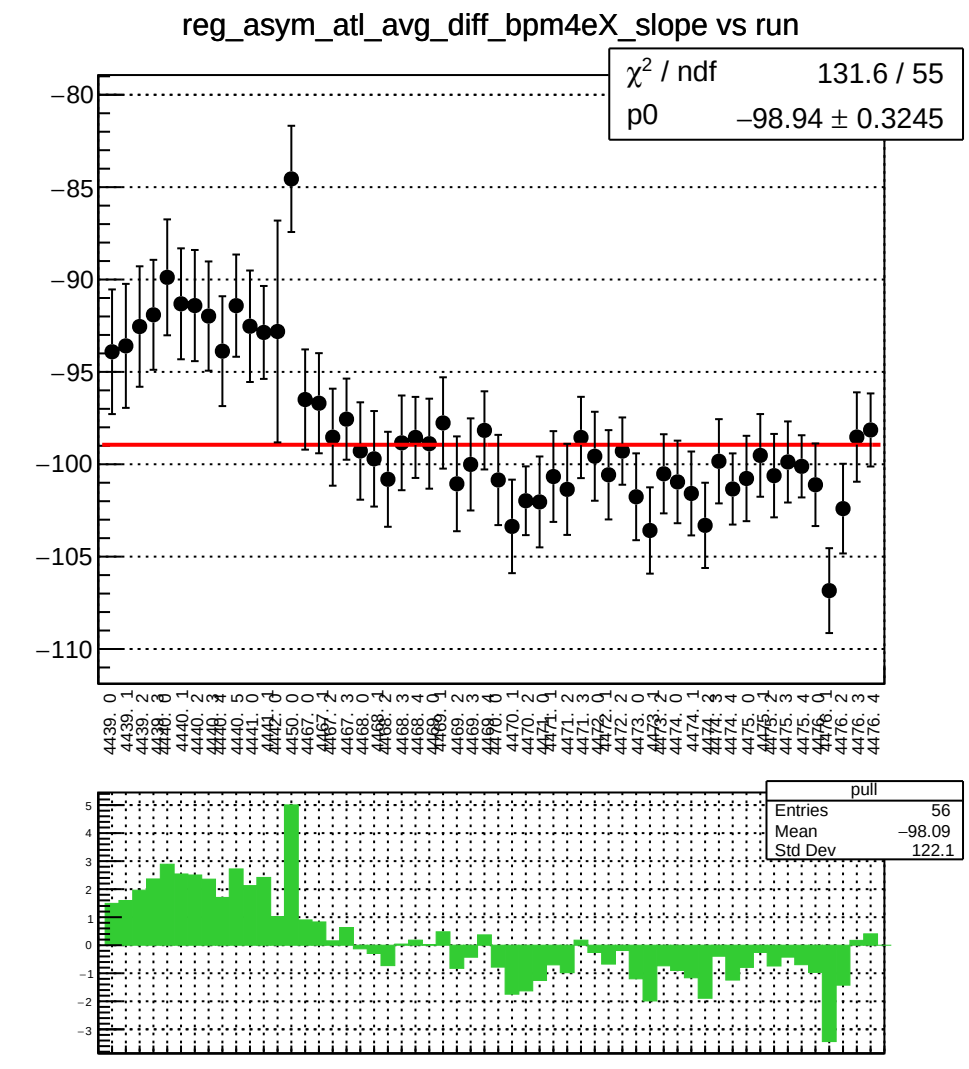

pull1D
Entries 56
Mean 0.3213
Std Dev 1.708

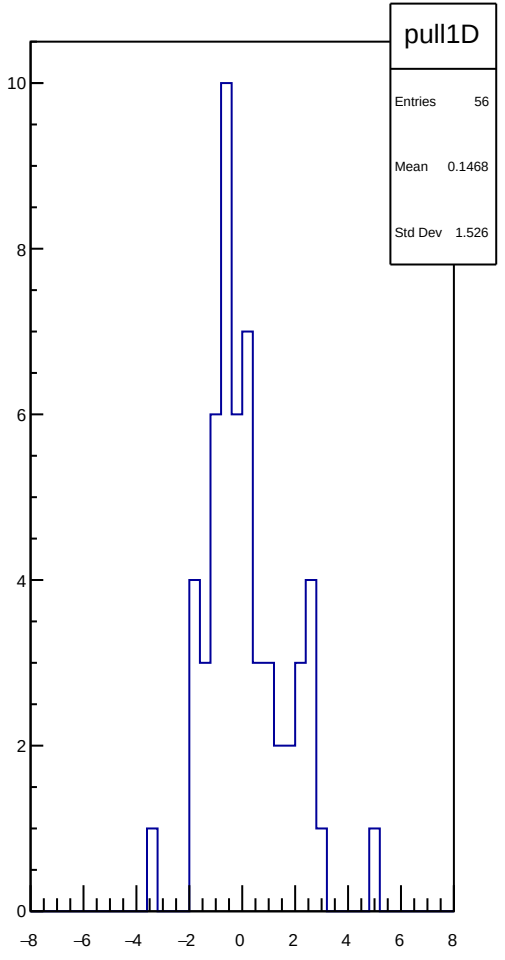

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 338.4 / 55
p0 −255.5 ± 0.558
pull
Entries 56
Mean 4907
Std Dev 4885
pull1D
Entries 56
Mean 0.005298
Std Dev 2.458

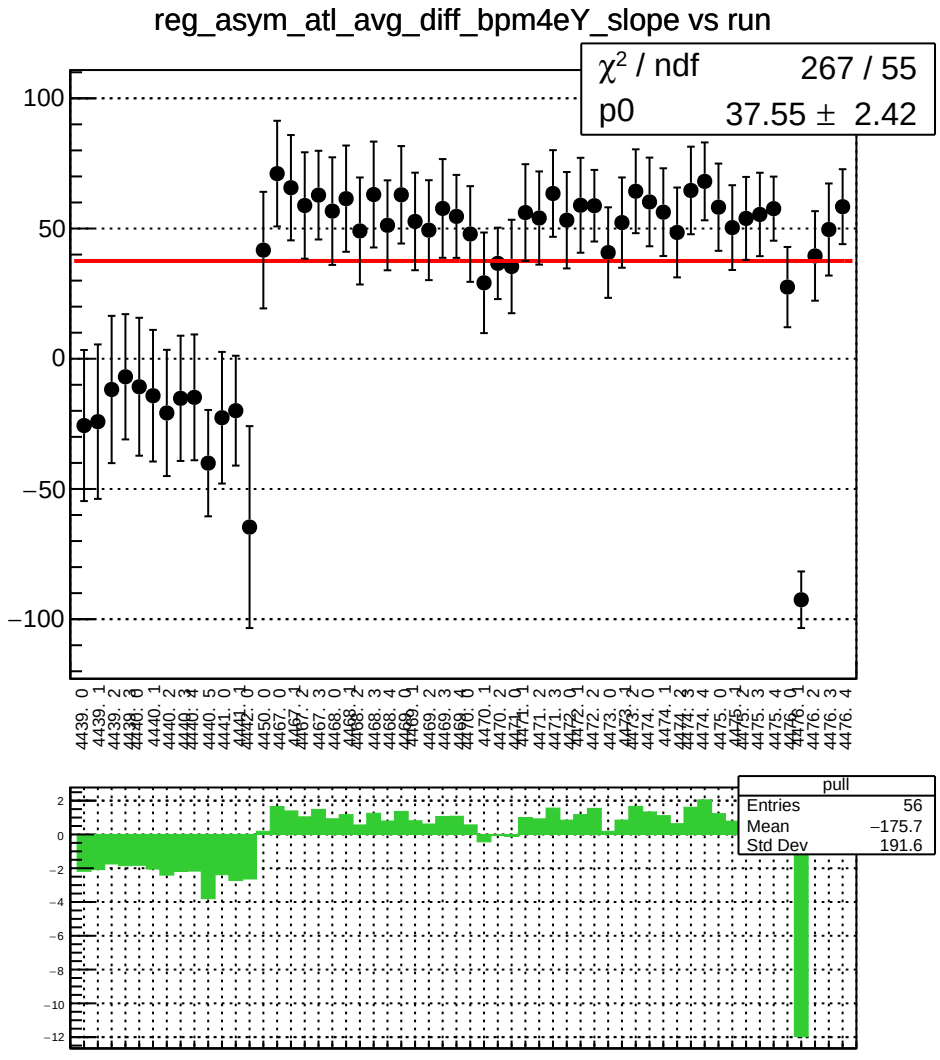

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 120.5 / 55
p0 60.08 ± 1.821
pull
Entries 56
Mean −16.37
Std Dev 34.17
pull1D
Entries 56
Mean −0.2929
Std Dev 1.438

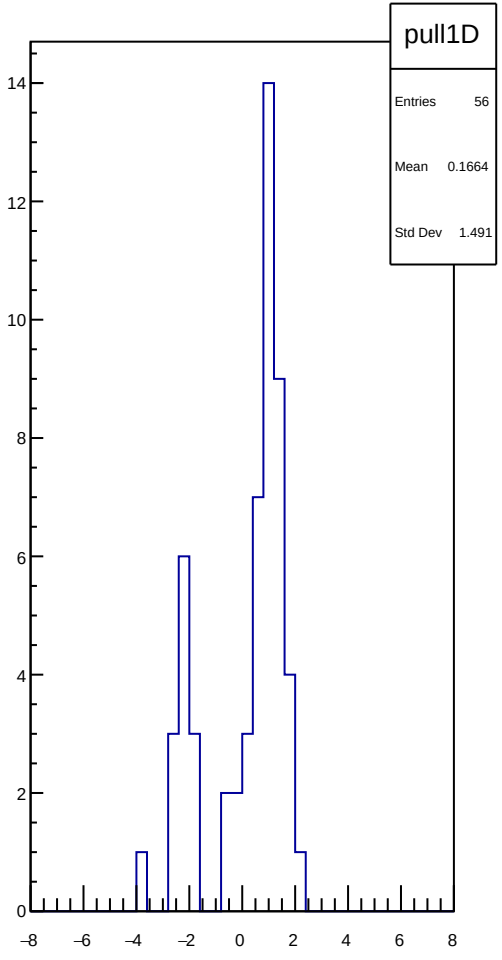

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 354.5 / 55
p0 −7.655 ± 2.065
pull
Entries 56
Mean 91.6
Std Dev 69.21

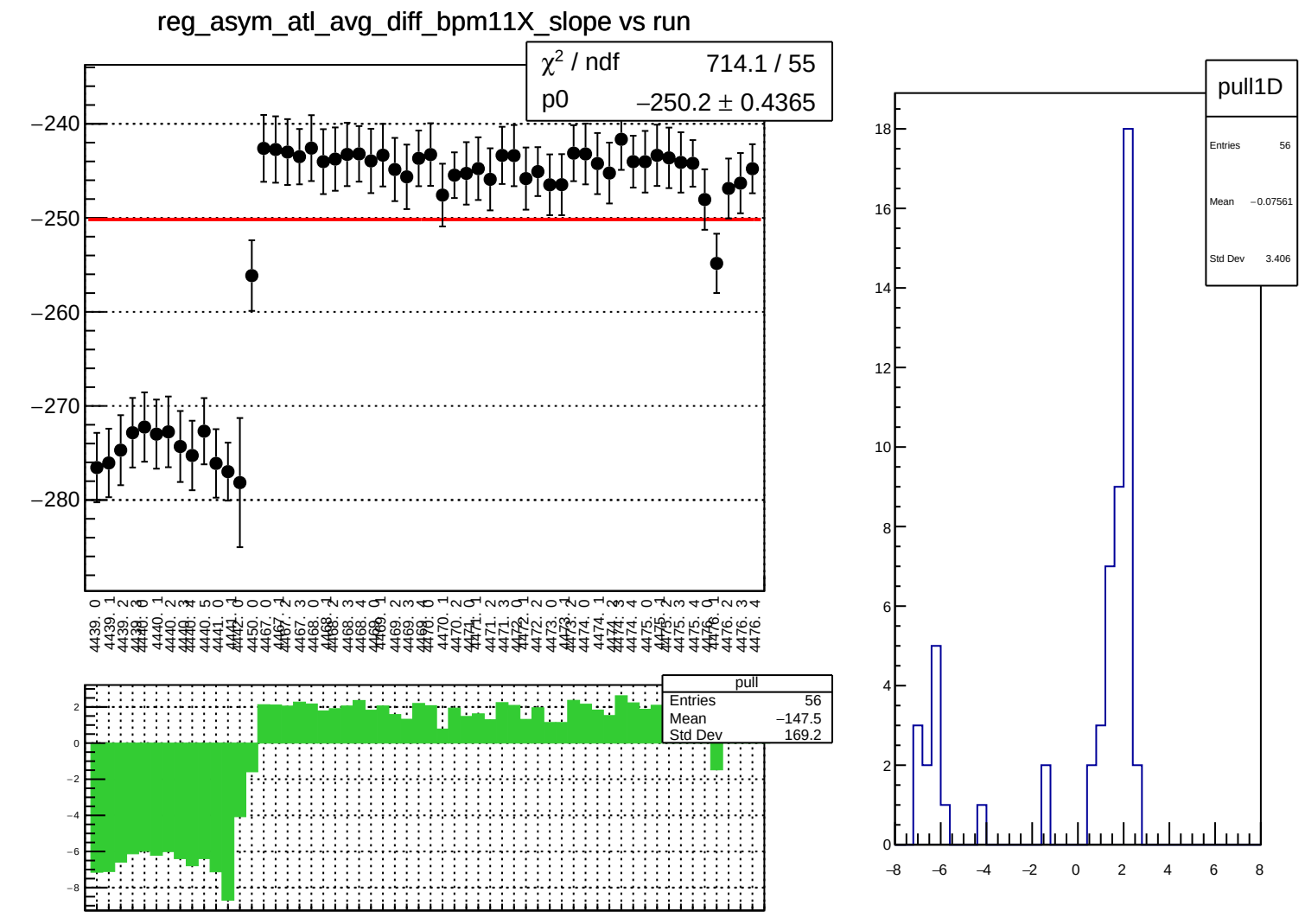

pull1D
Entries 56
Mean −0.4784
Std Dev 2.136

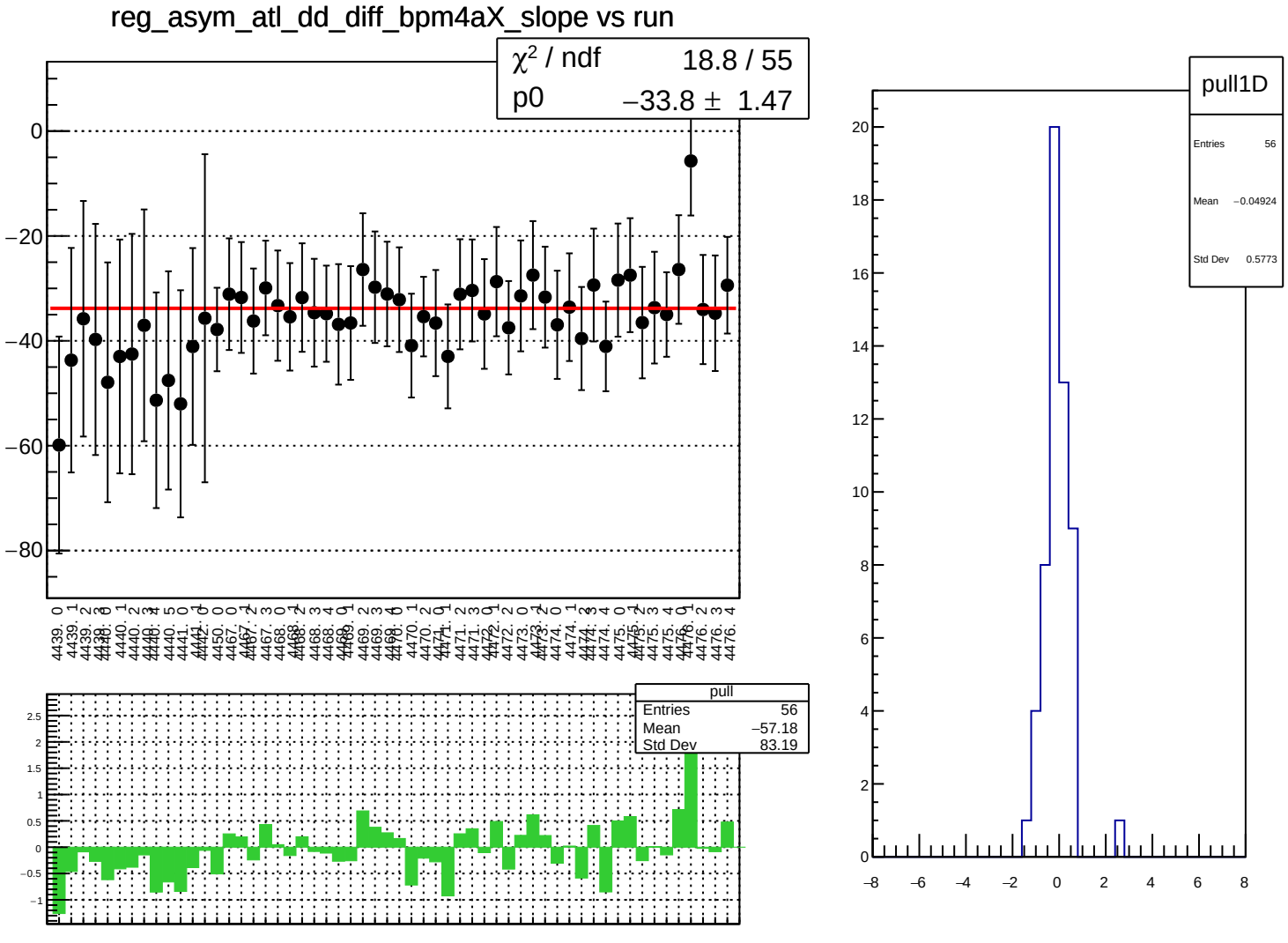

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 131.6 / 55
p0 −98.94 ± 0.3245
pull
Entries 56
Mean −98.09
Std Dev 122.1

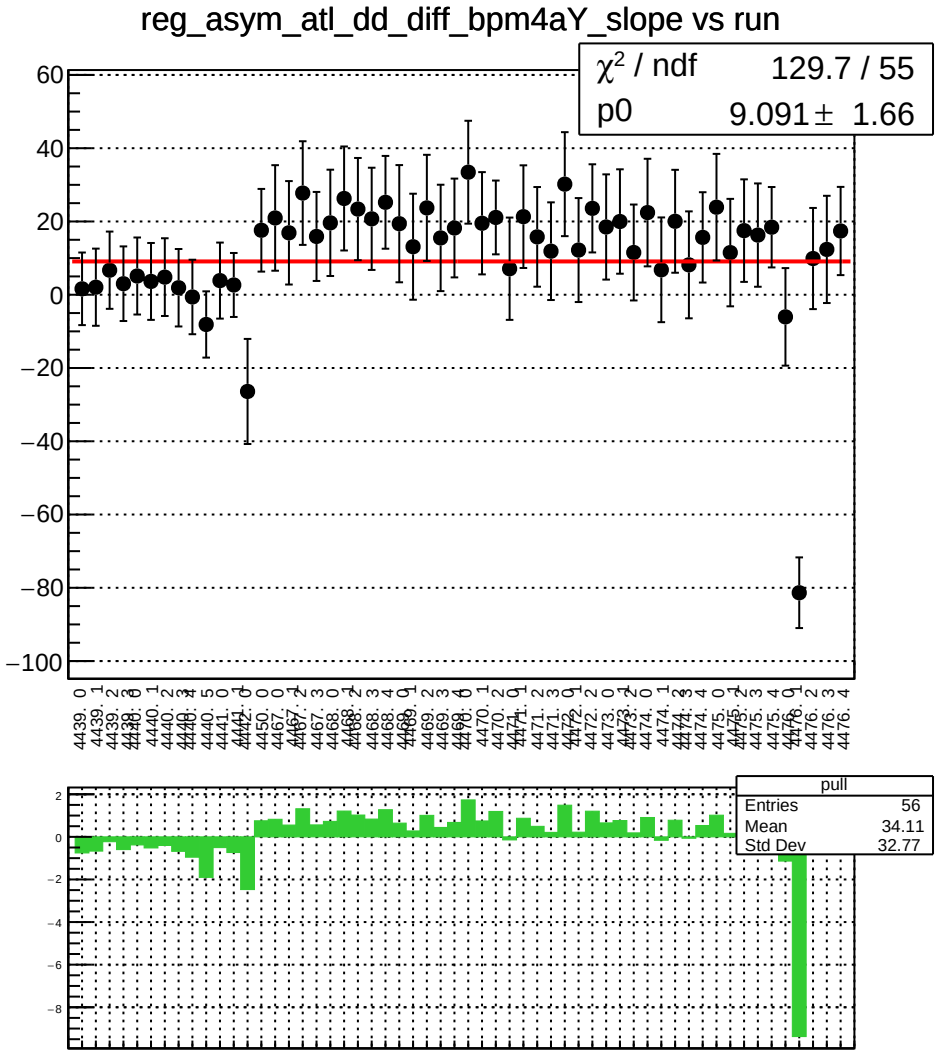

pull1D
Entries 56
Mean 0.1468
Std Dev 1.526

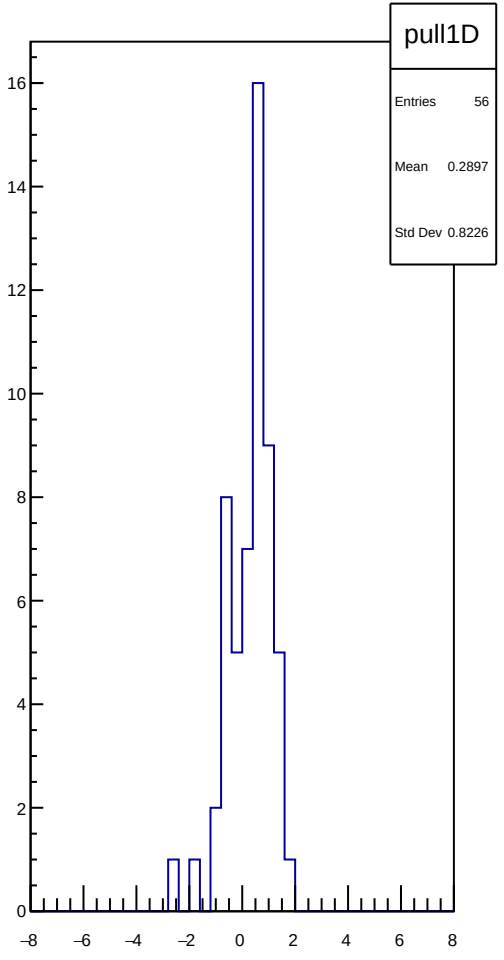

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 267 / 55
p0 37.55 ± 2.42
pull
Entries 56
Mean −175.7
Std Dev 191.6

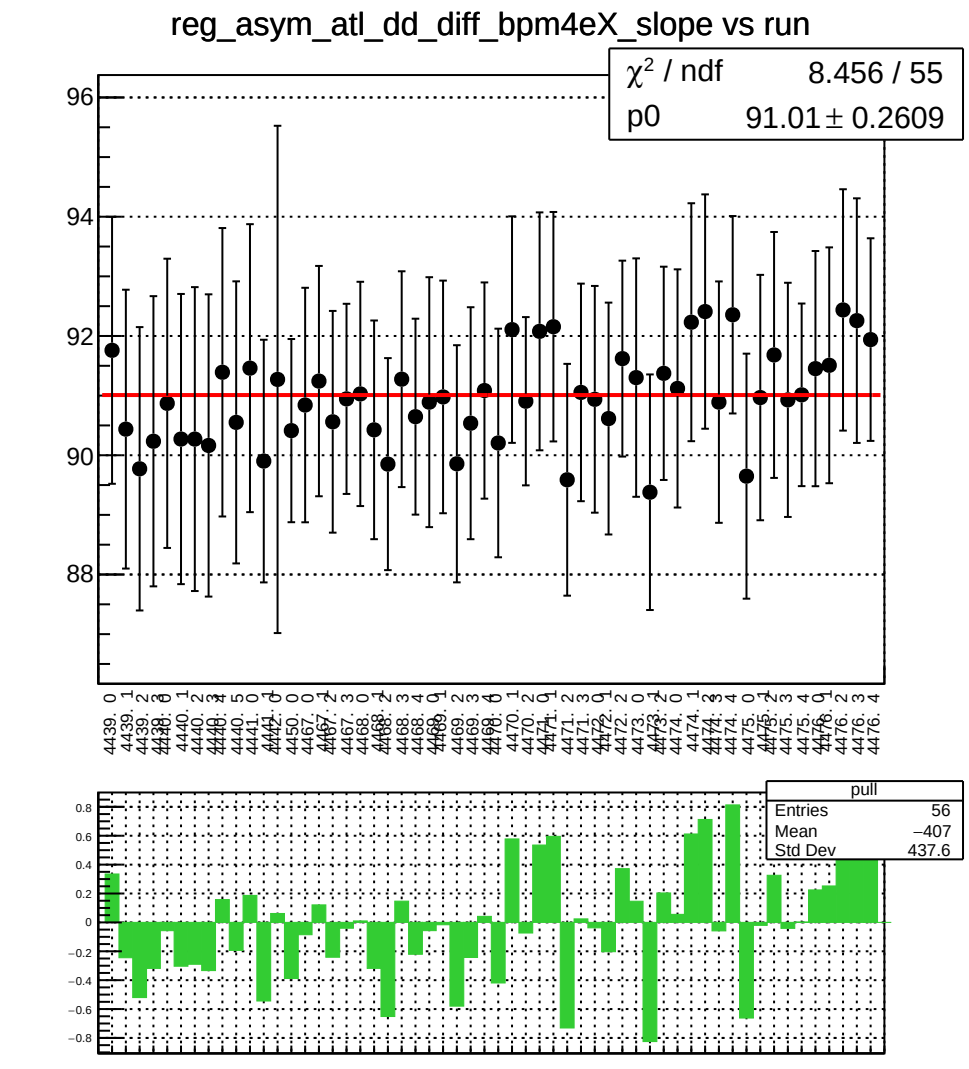

pull1D
Entries 56
Mean 0.1664
Std Dev 1.491

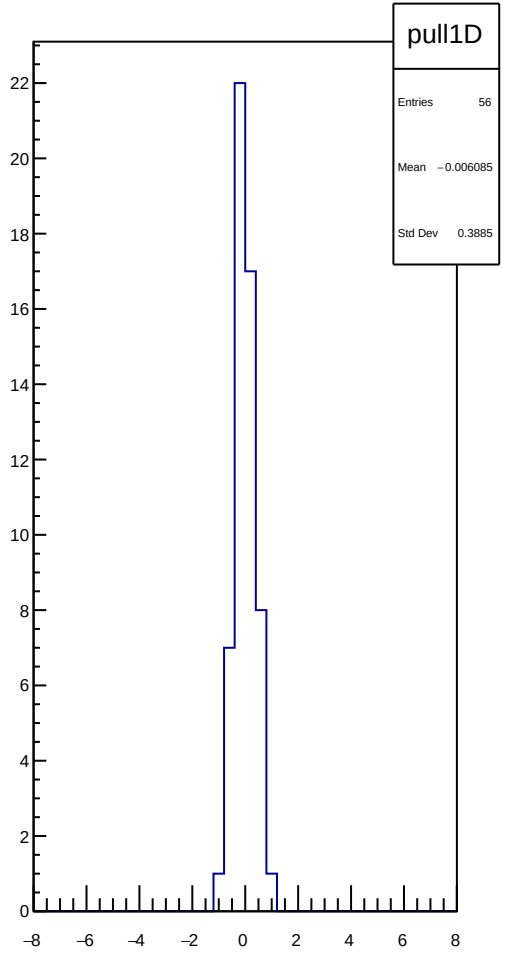

reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 714.1 / 55
p0 −250.2 ± 0.4365
−240
−250
−260
−270
−280
pull
Entries 56
Mean −147.5
Std Dev 169.2
2
0
−2
−4
−6
−8
pull1D
Entries 56
Mean −0.07561
Std Dev 3.406
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

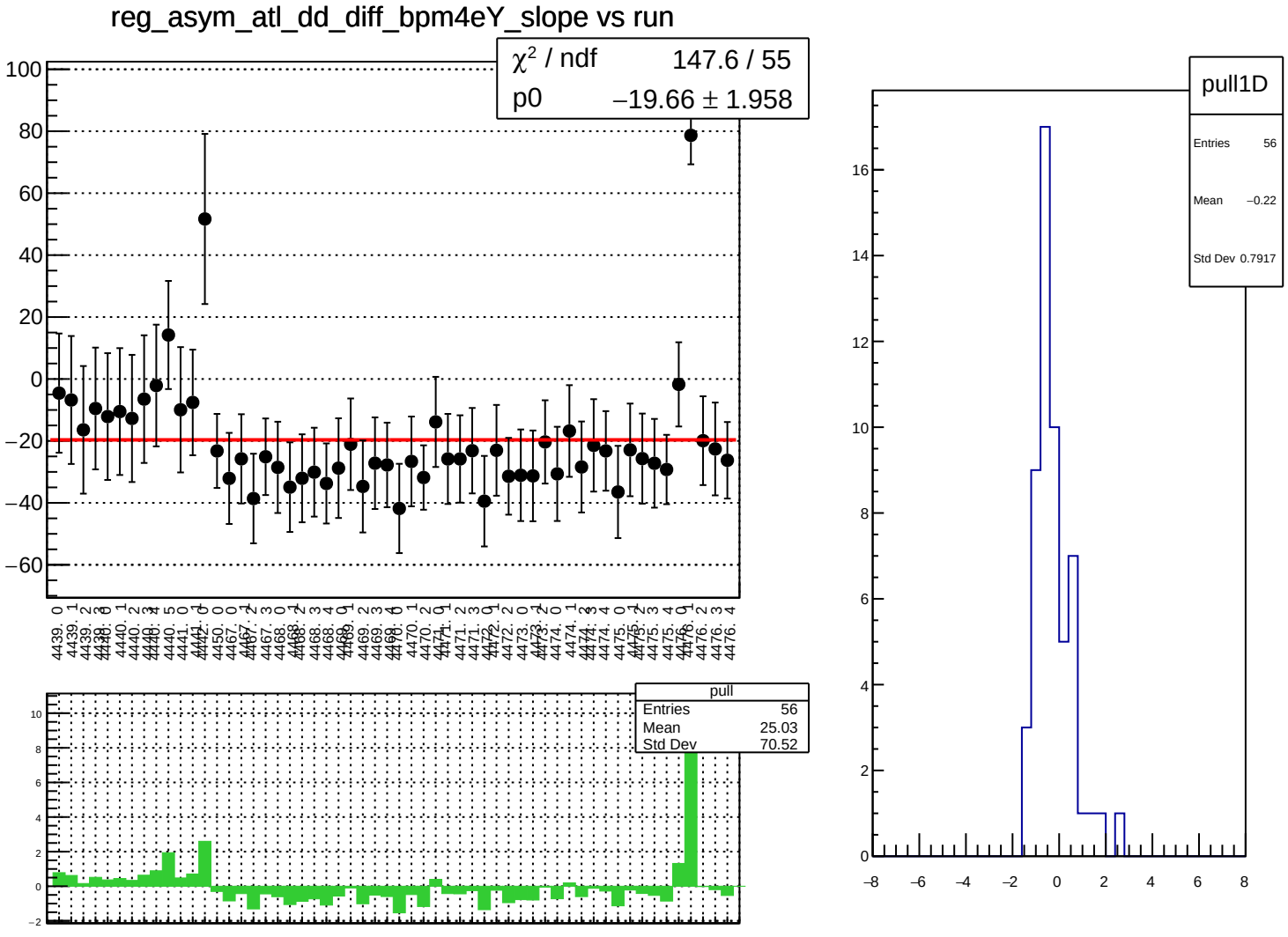

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 18.8 / 55
p0 −33.8 ± 1.47
pull
Entries 56
Mean −57.18
Std Dev 83.19
pull1D
Entries 56
Mean −0.04924
Std Dev 0.5773

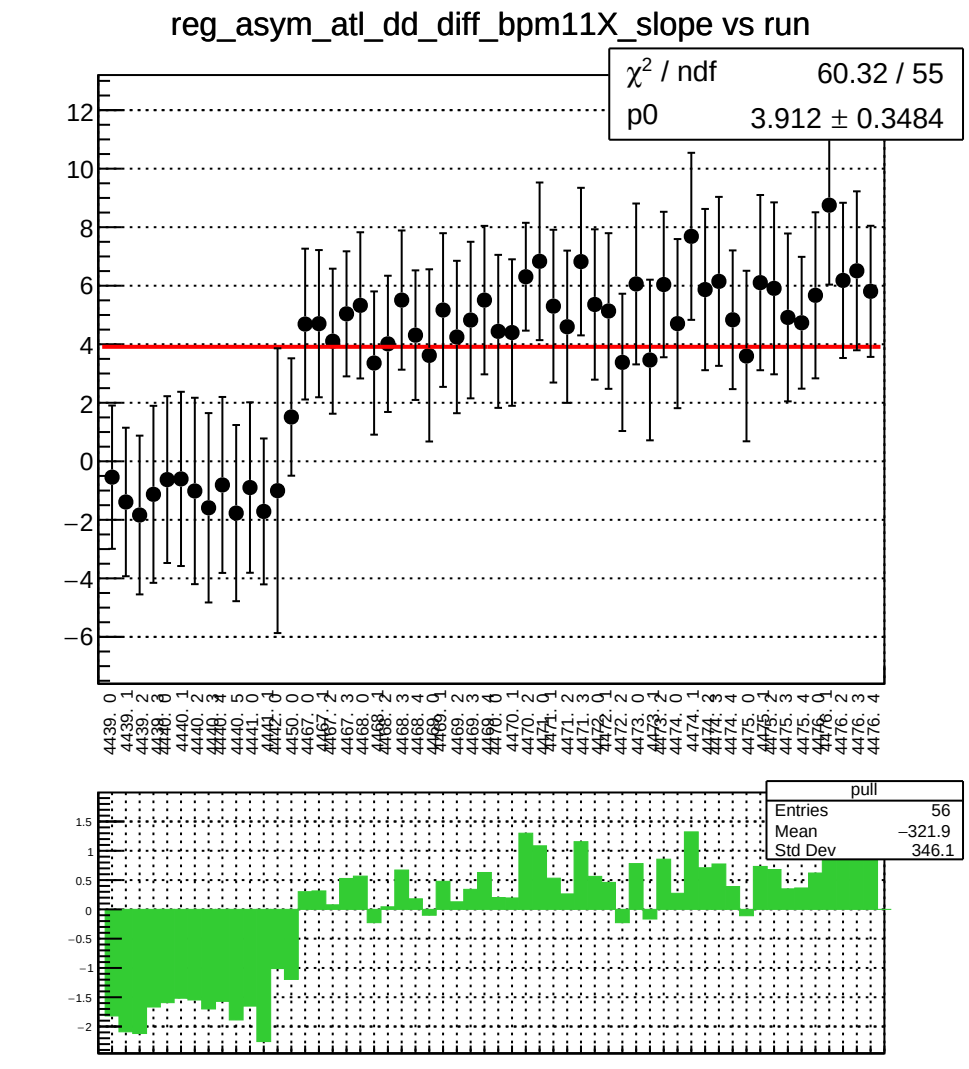

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 129.7 / 55
p0 9.091 ± 1.66
pull
Entries 56
Mean 34.11
Std Dev 32.77

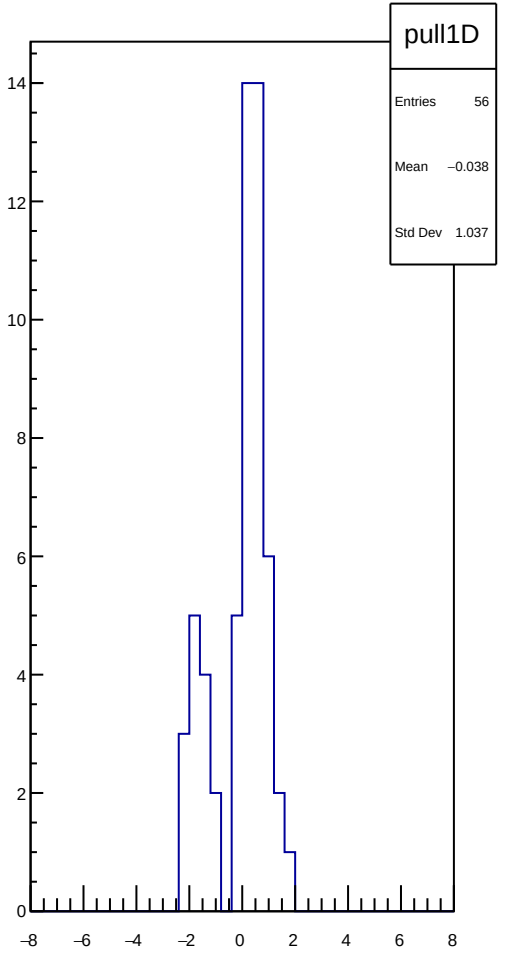

pull1D
Entries 56
Mean 0.2897
Std Dev 0.8226

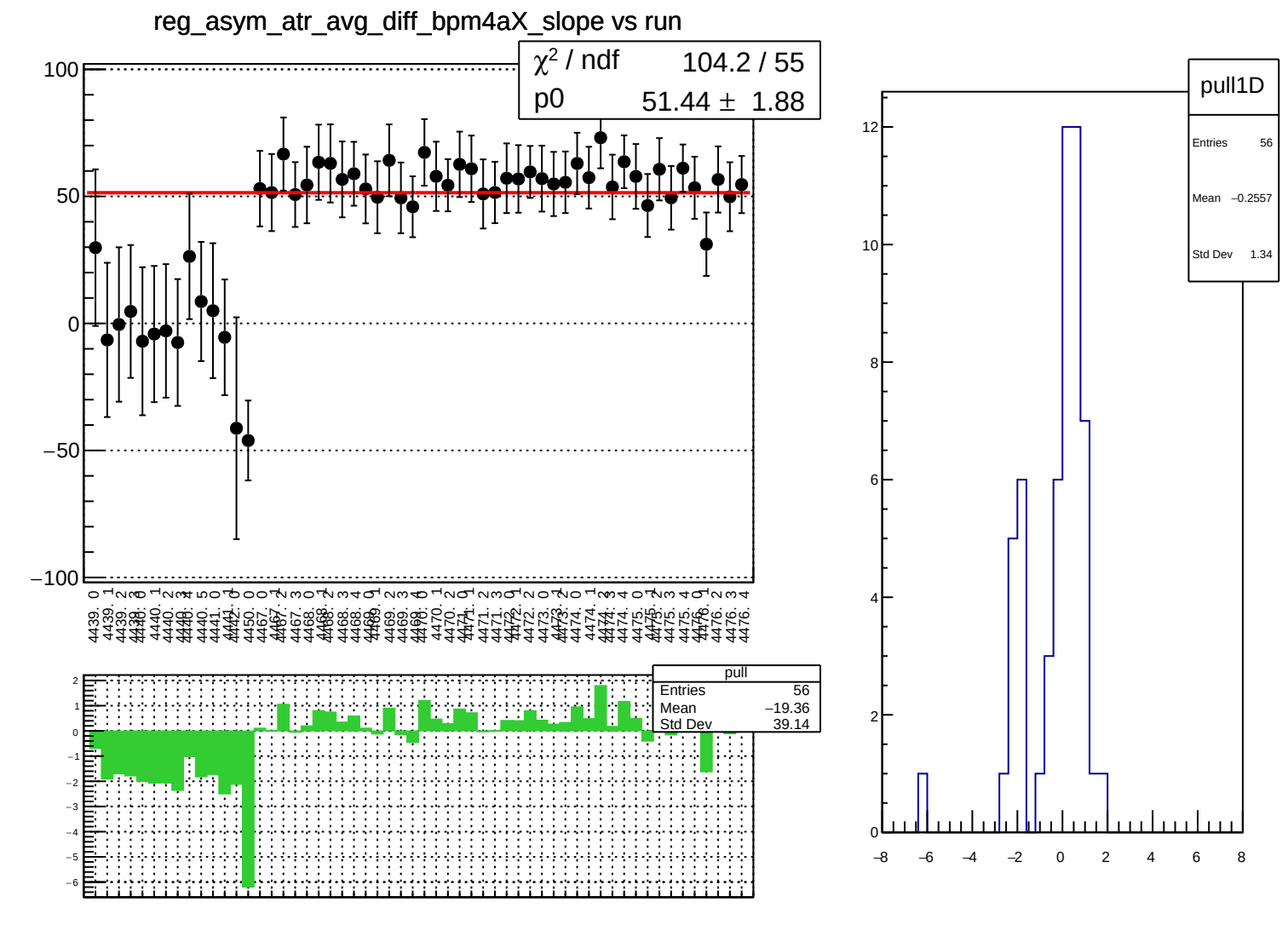

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.456 / 55
p0 91.01 ± 0.2609
pull
Entries 56
Mean −407
Std Dev 437.6

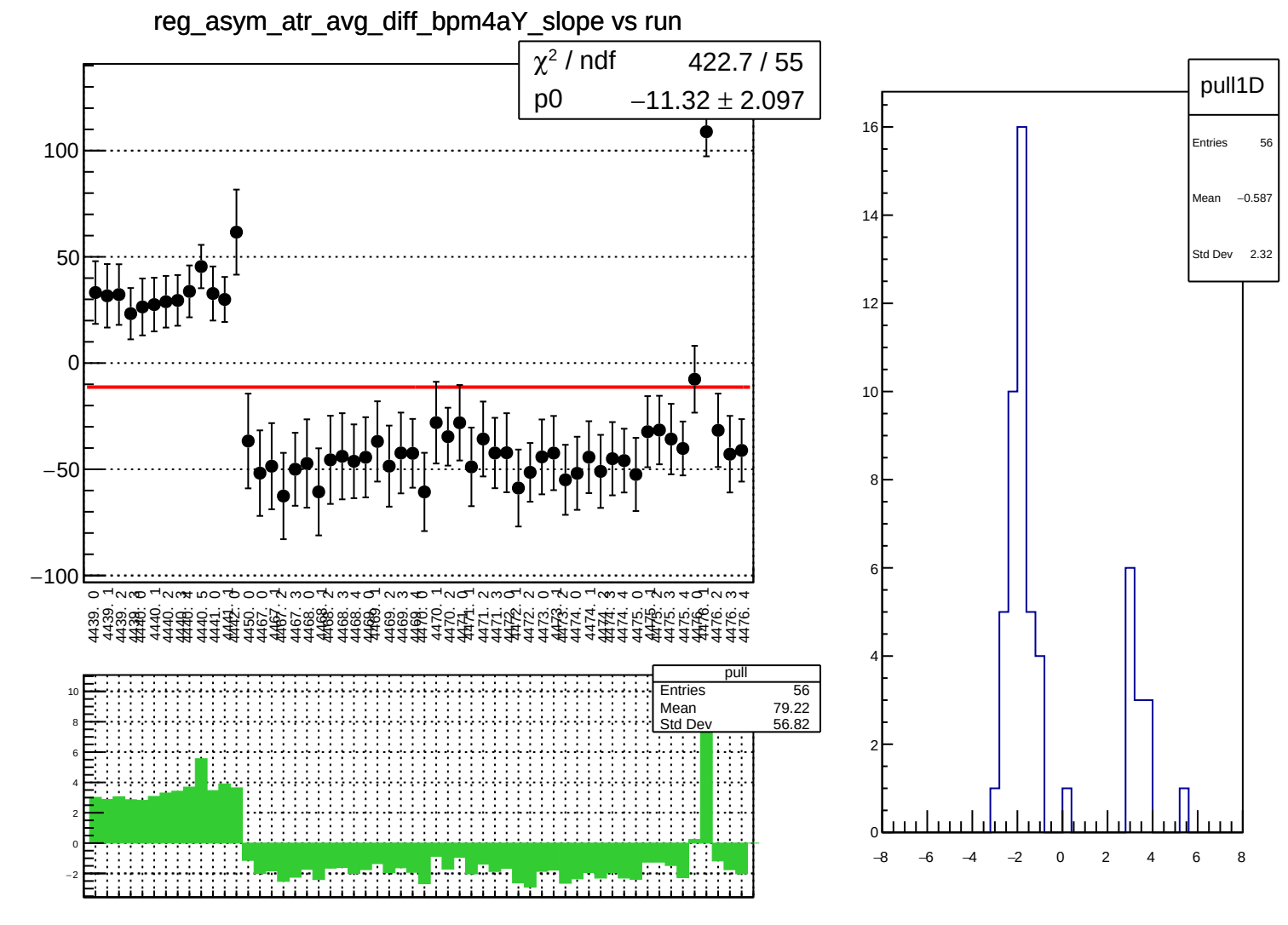

pull1D
Entries 56
Mean −0.006085
Std Dev 0.3885

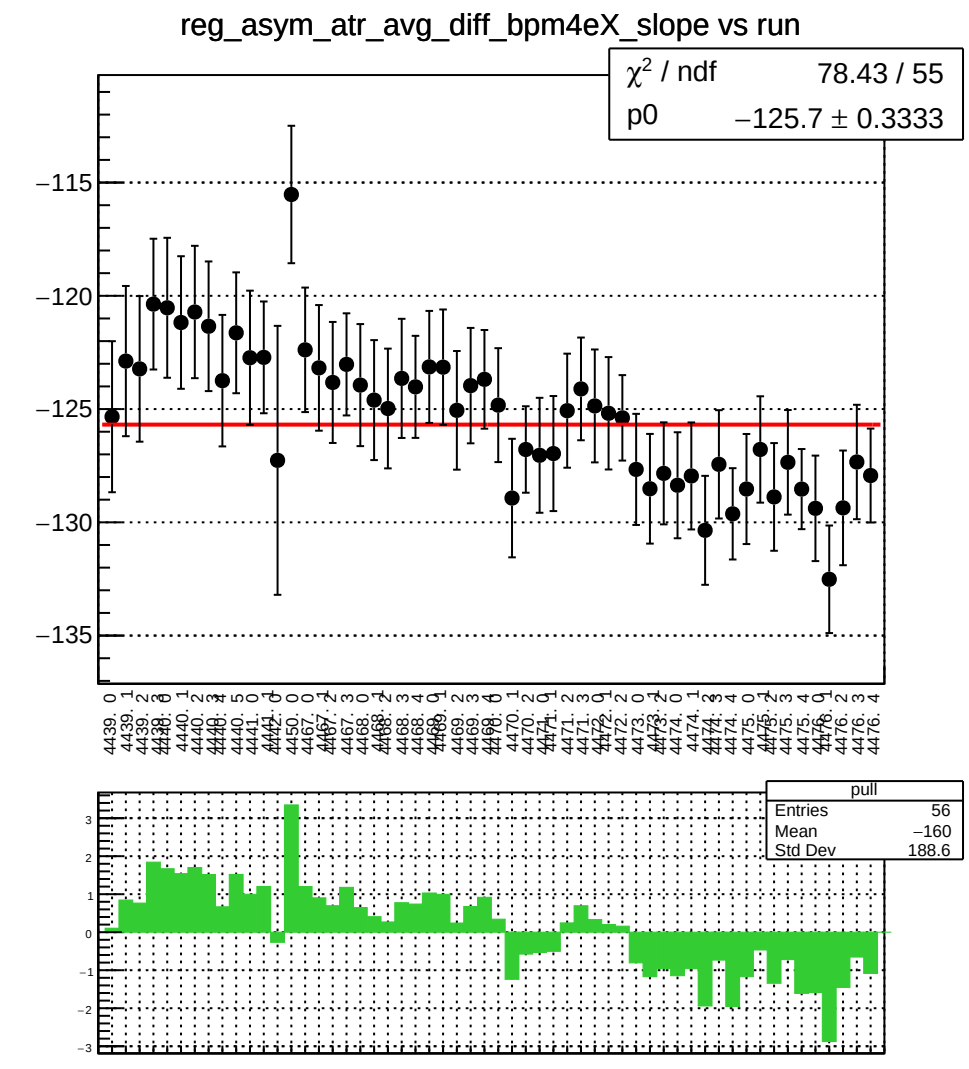

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 147.6 / 55
p0 −19.66 ± 1.958
pull
Entries 56
Mean 25.03
Std Dev 70.52
pull1D
Entries 56
Mean −0.22
Std Dev 0.7917

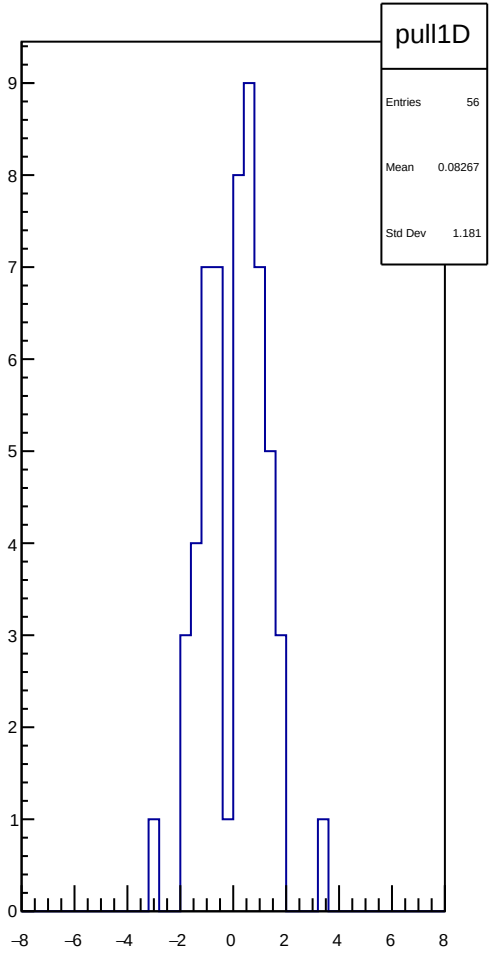

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 60.32 / 55
p0 3.912 ± 0.3484
pull
Entries 56
Mean −321.9
Std Dev 346.1

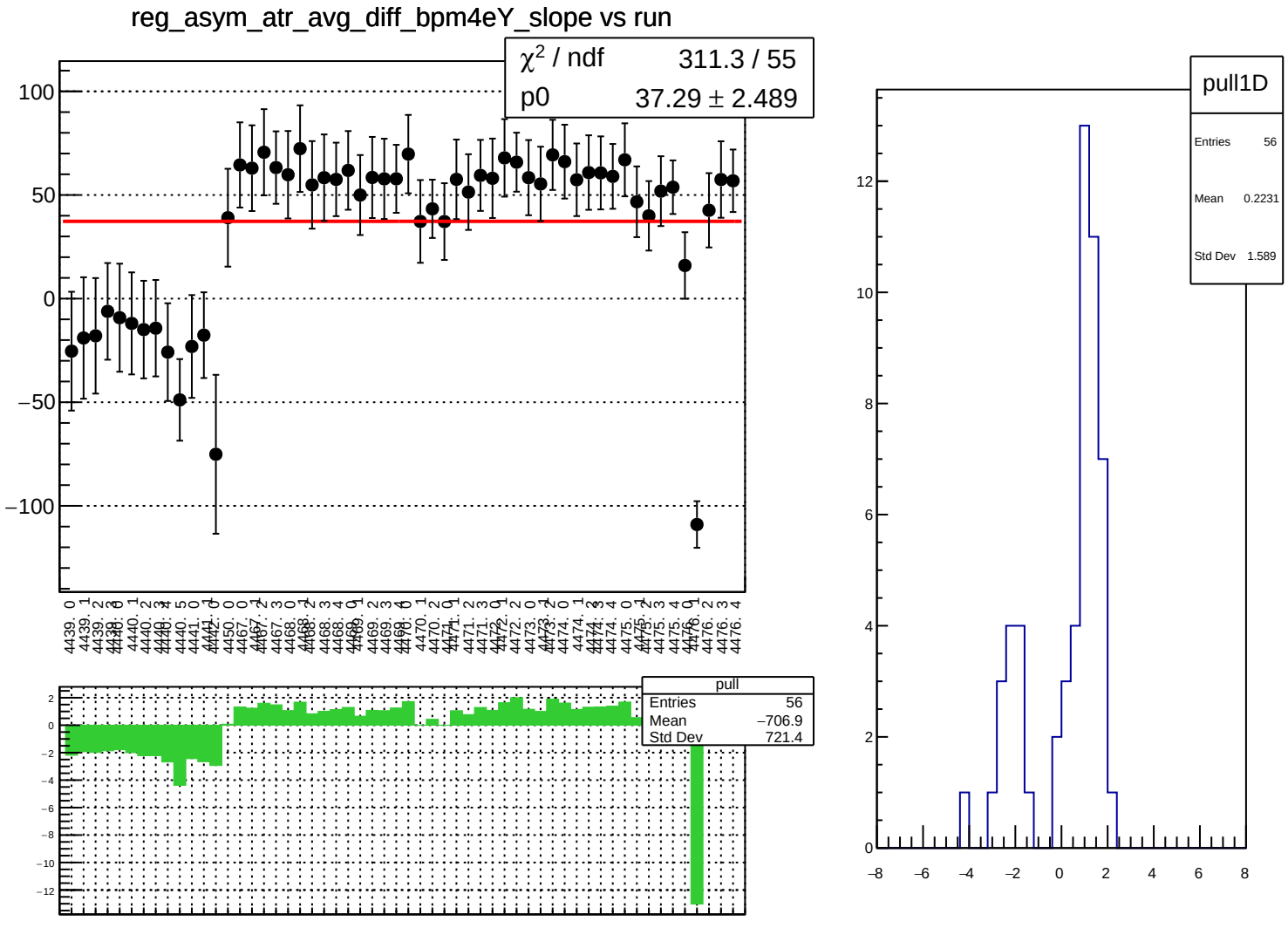

pull1D
Entries 56
Mean −0.038
Std Dev 1.037

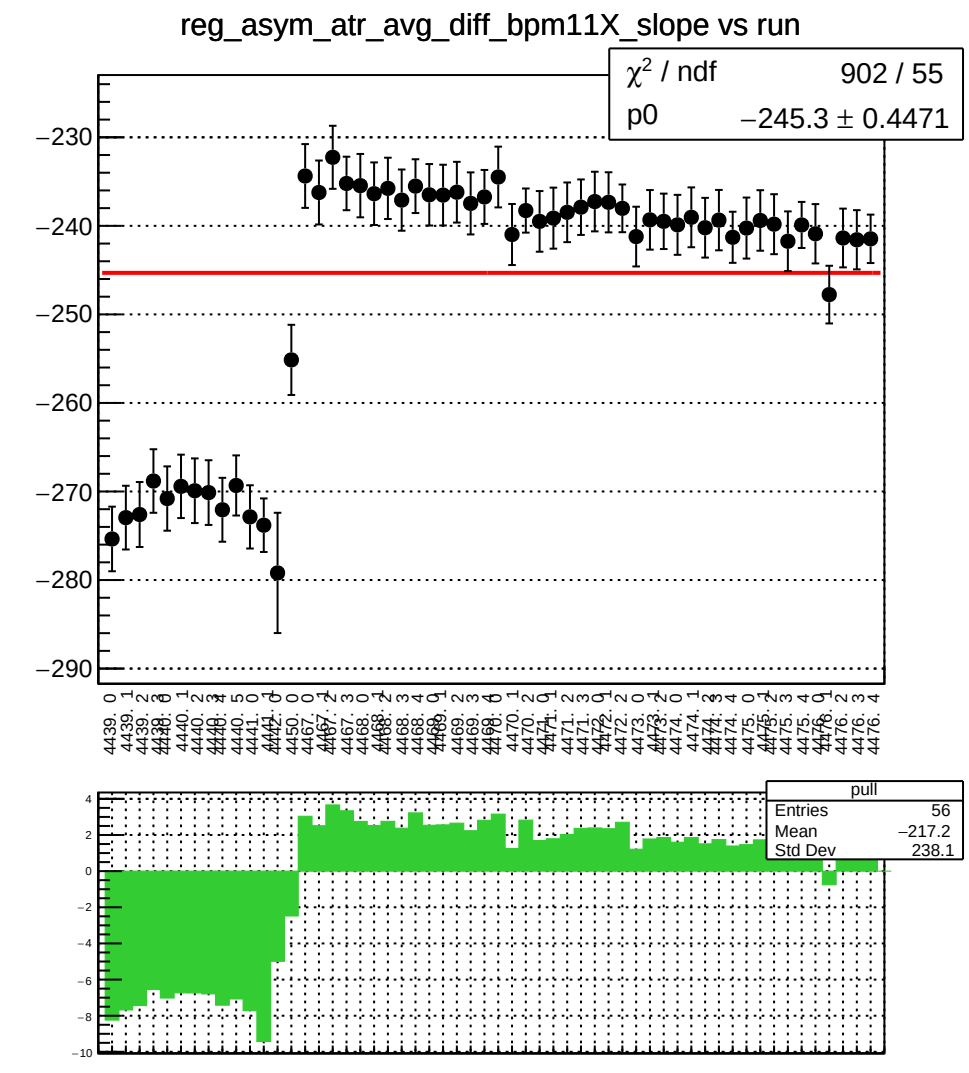

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 104.2 / 55
p0 51.44 ± 1.88
pull
Entries 56
Mean −19.36
Std Dev 39.14
pull1D
Entries 56
Mean −0.2557
Std Dev 1.34

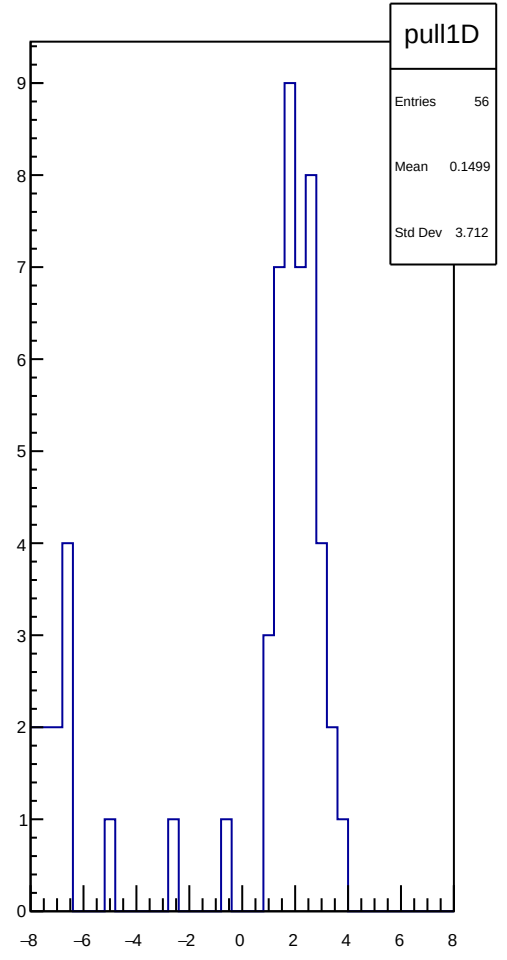

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 422.7 / 55
p0 −11.32 ± 2.097
pull
Entries 56
Mean 79.22
Std Dev 56.82
pull1D
Entries 56
Mean −0.587
Std Dev 2.32

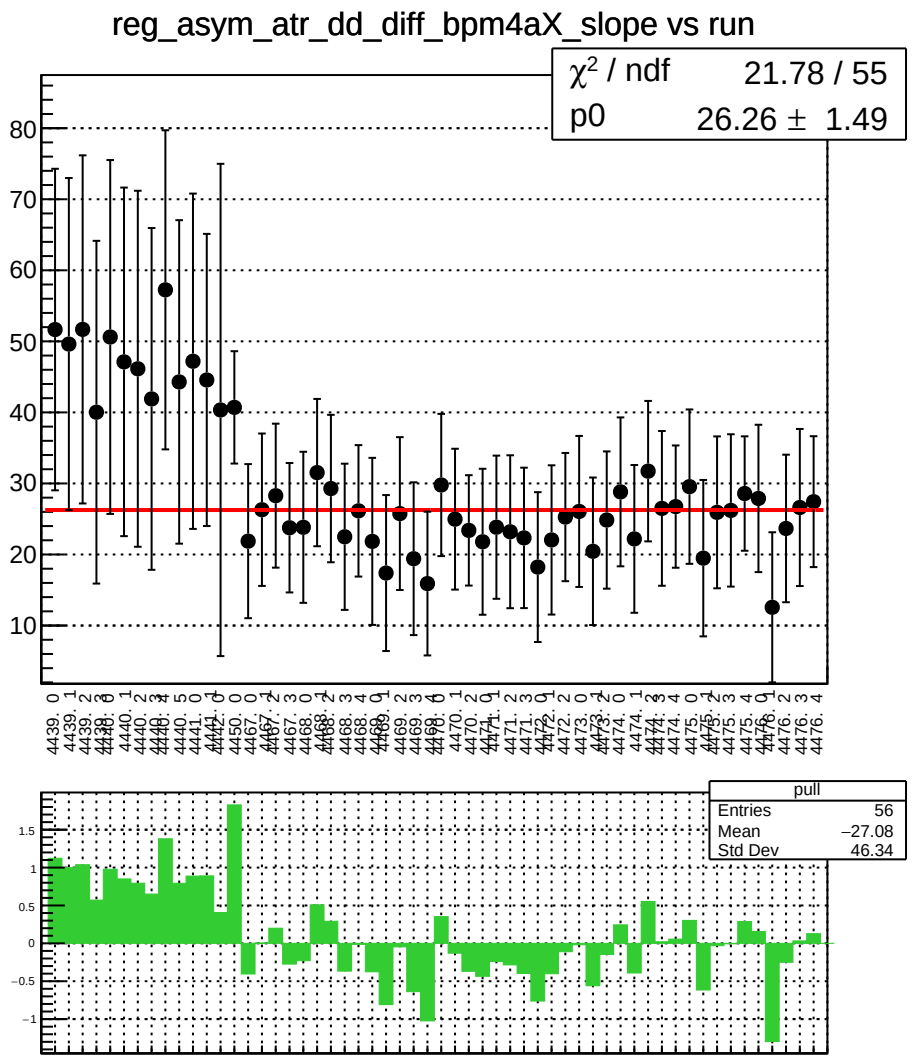

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 78.43 / 55
p0 −125.7 ± 0.3333
pull
Entries 56
Mean −160
Std Dev 188.6

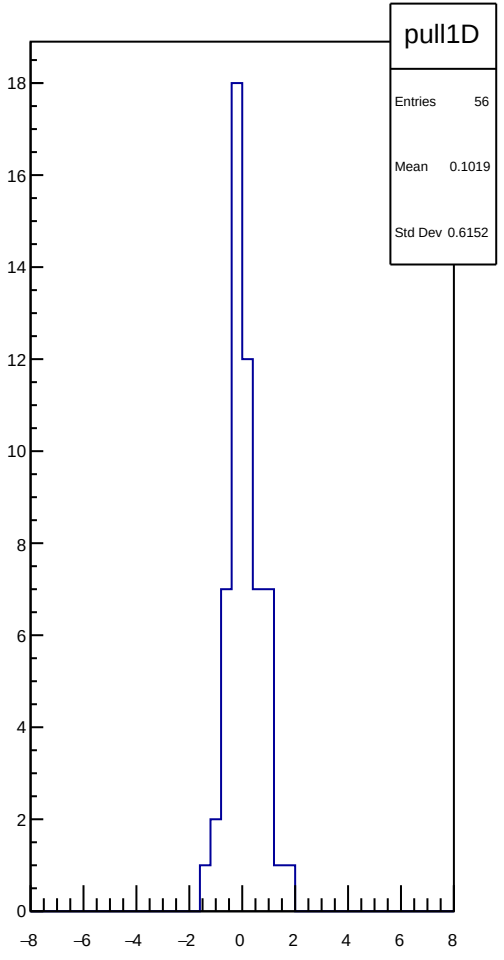

pull1D
Entries 56
Mean 0.08267
Std Dev 1.181

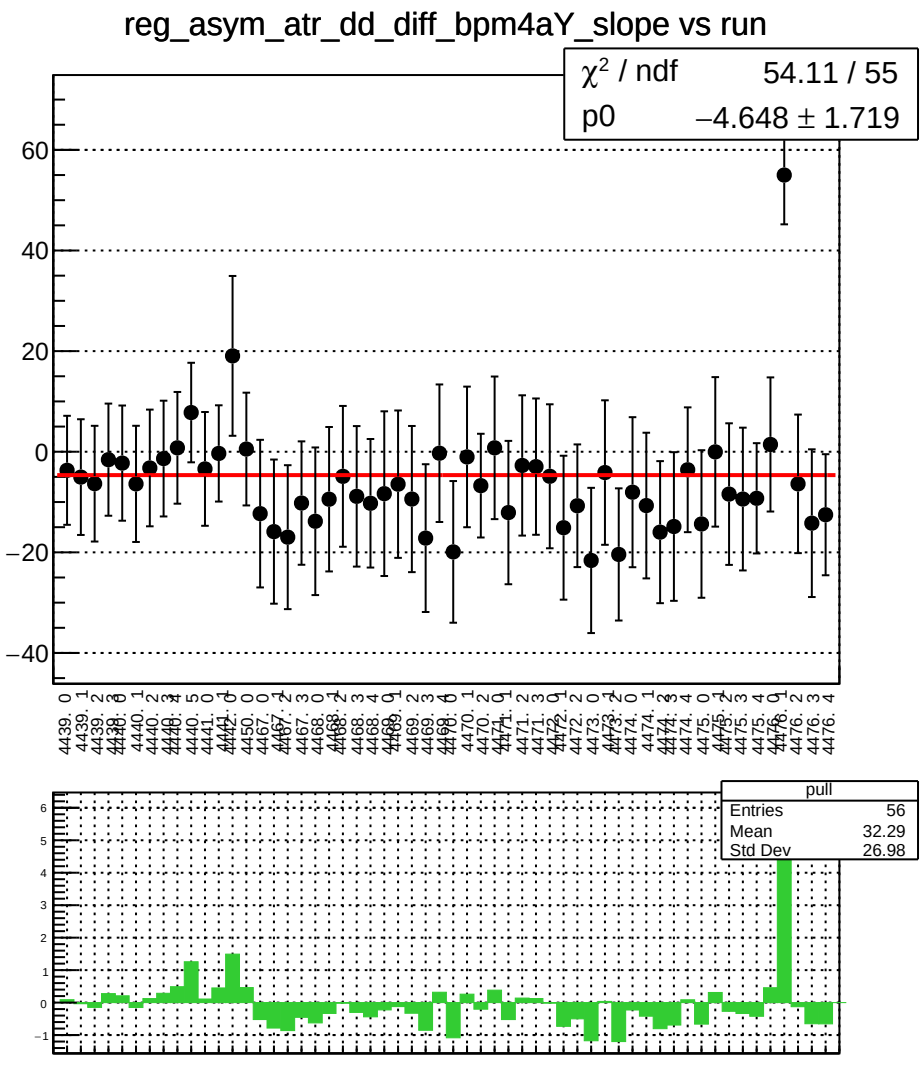

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 311.3 / 55
p0 37.29 ± 2.489
100
50
0
−50
−100
pull
Entries 56
Mean −706.9
Std Dev 721.4
pull1D
Entries 56
Mean 0.2231
Std Dev 1.589

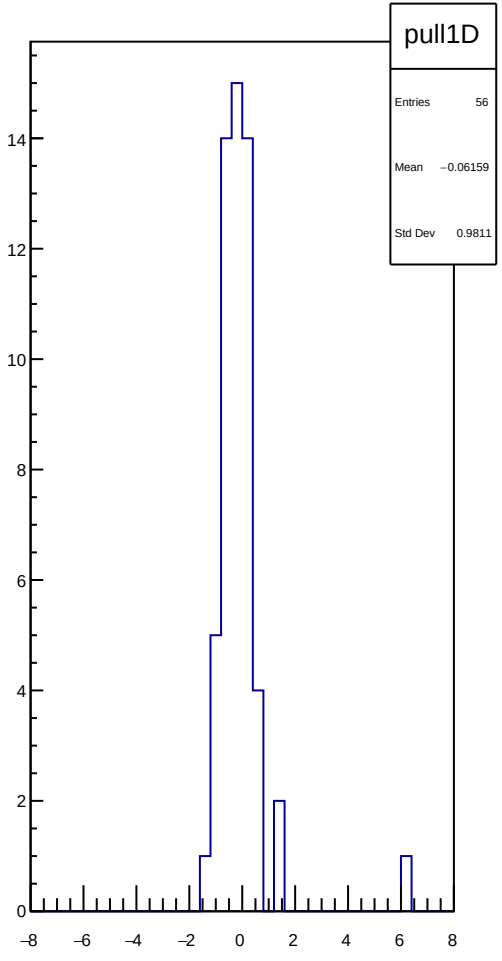

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 902 / 55
p0 −245.3 ± 0.4471
pull
Entries 56
Mean −217.2
Std Dev 238.1

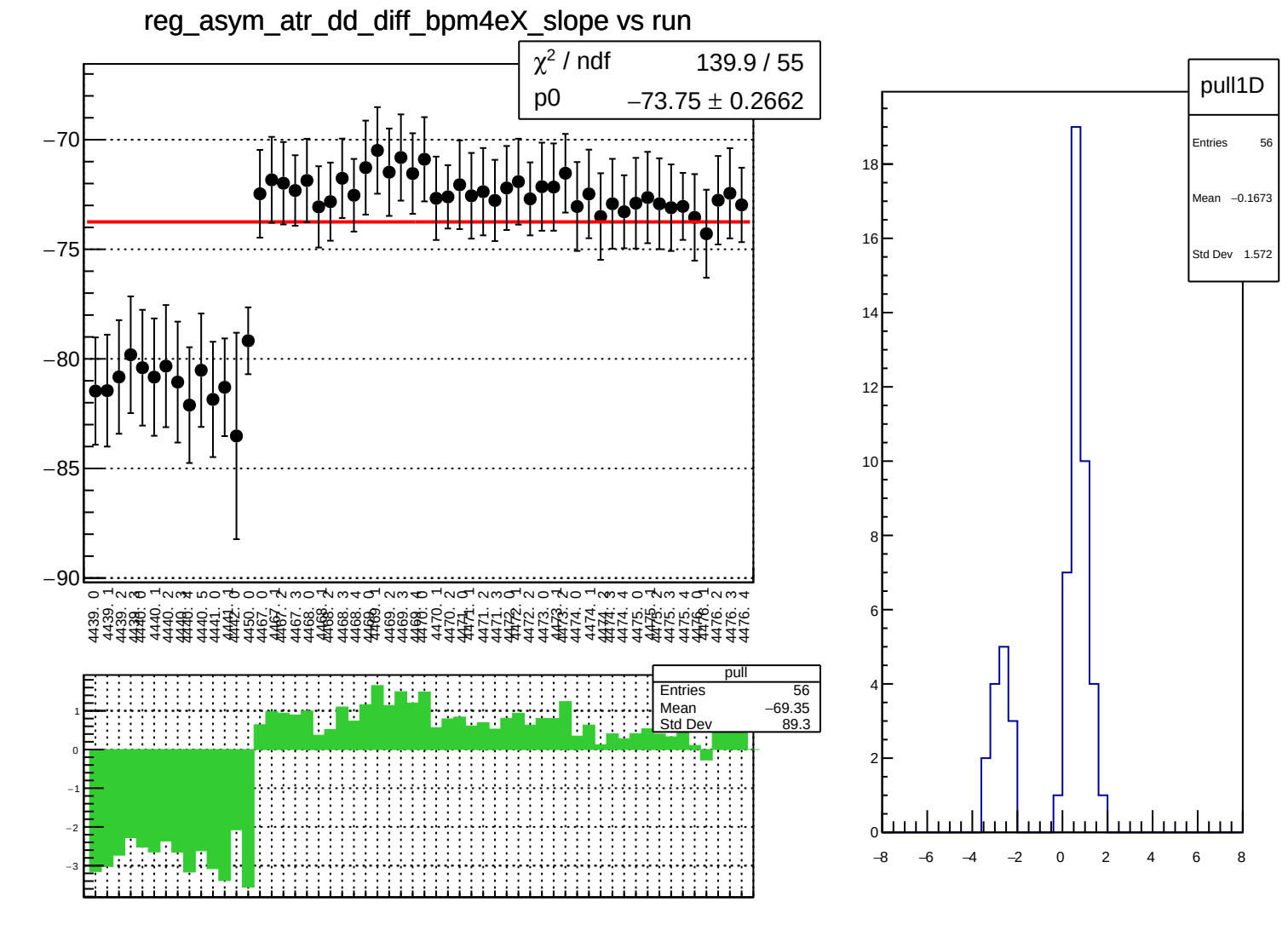

pull1D
Entries 56
Mean 0.1499
Std Dev 3.712

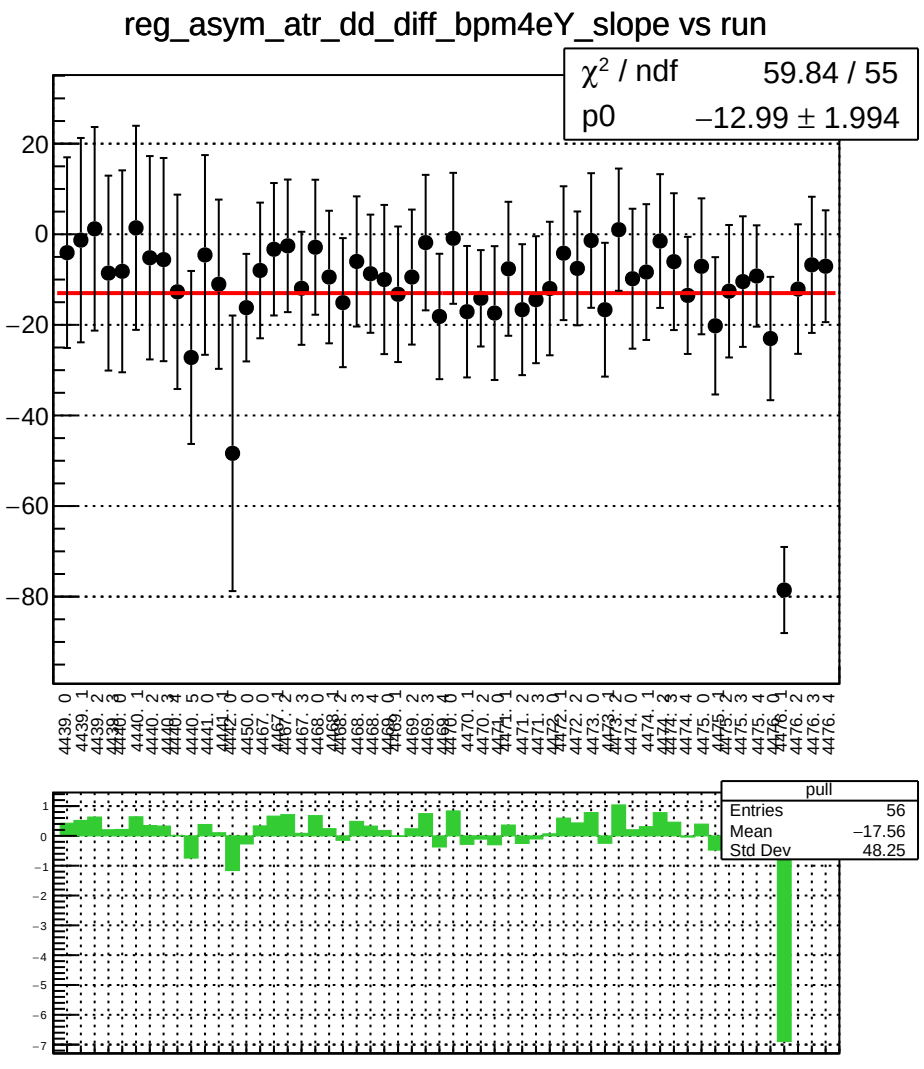

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 21.78 / 55
p0 26.26 ± 1.49
pull
Entries 56
Mean −27.08
Std Dev 46.34

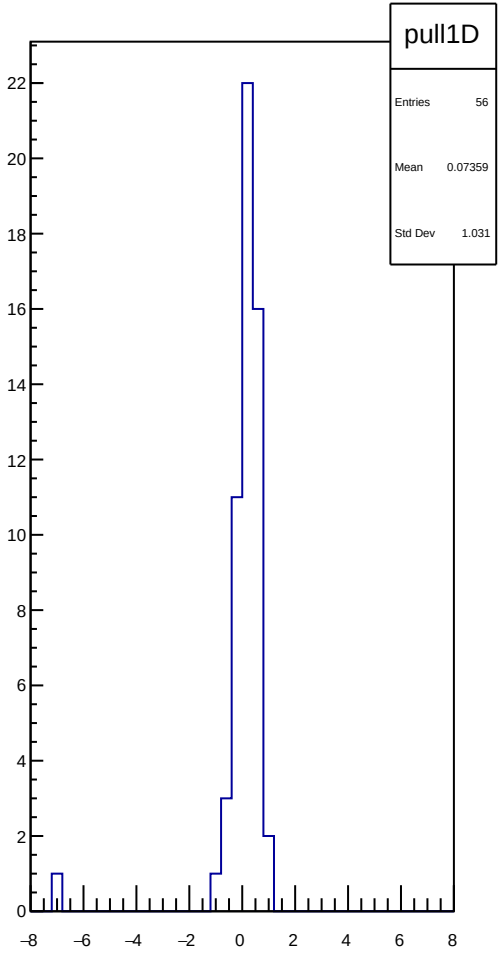

pull1D
Entries 56
Mean 0.1019
Std Dev 0.6152

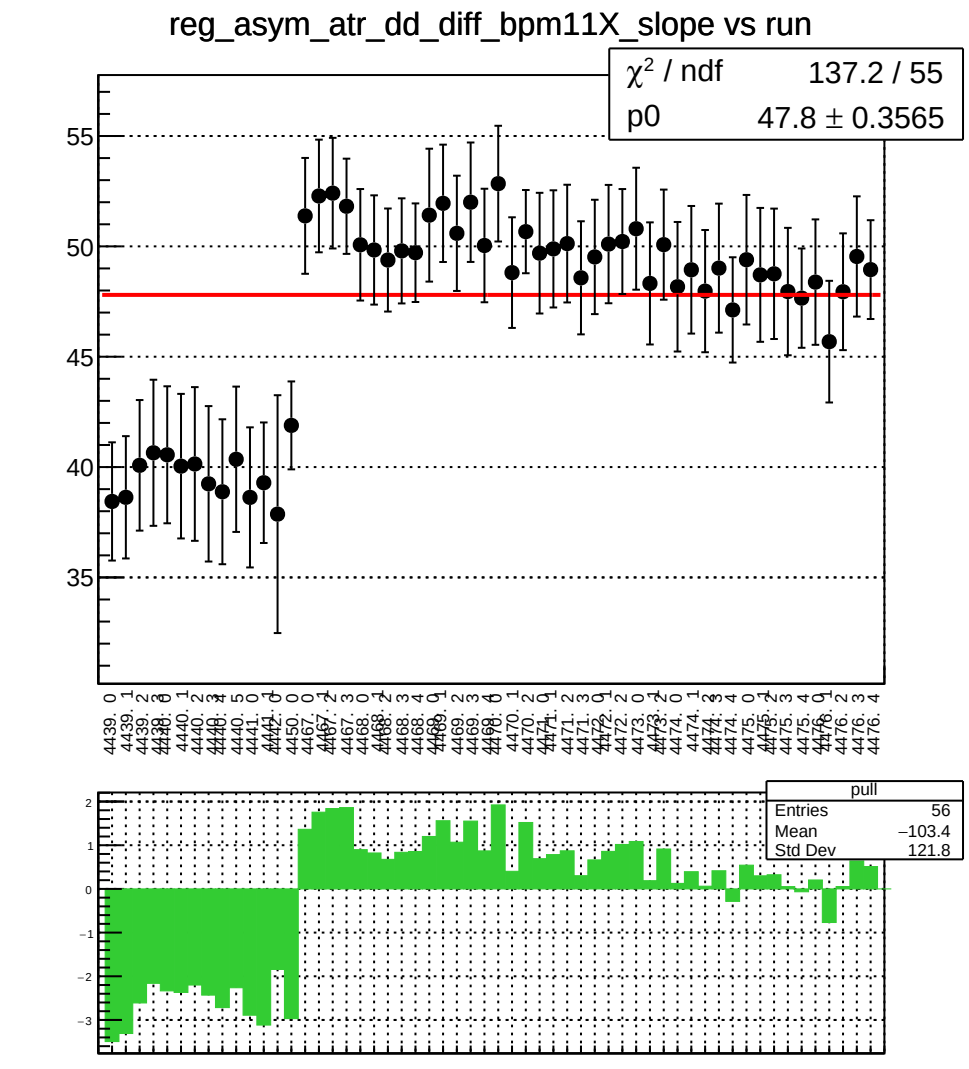

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.11 / 55
p0 −4.648 ± 1.719
pull
Entries 56
Mean 32.29
Std Dev 26.98

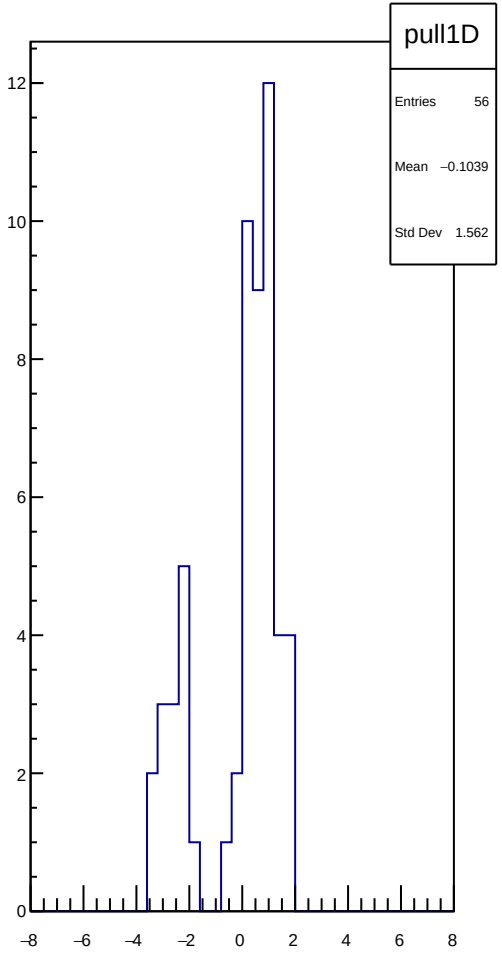

pull1D
Entries 56
Mean −0.06159
Std Dev 0.9811

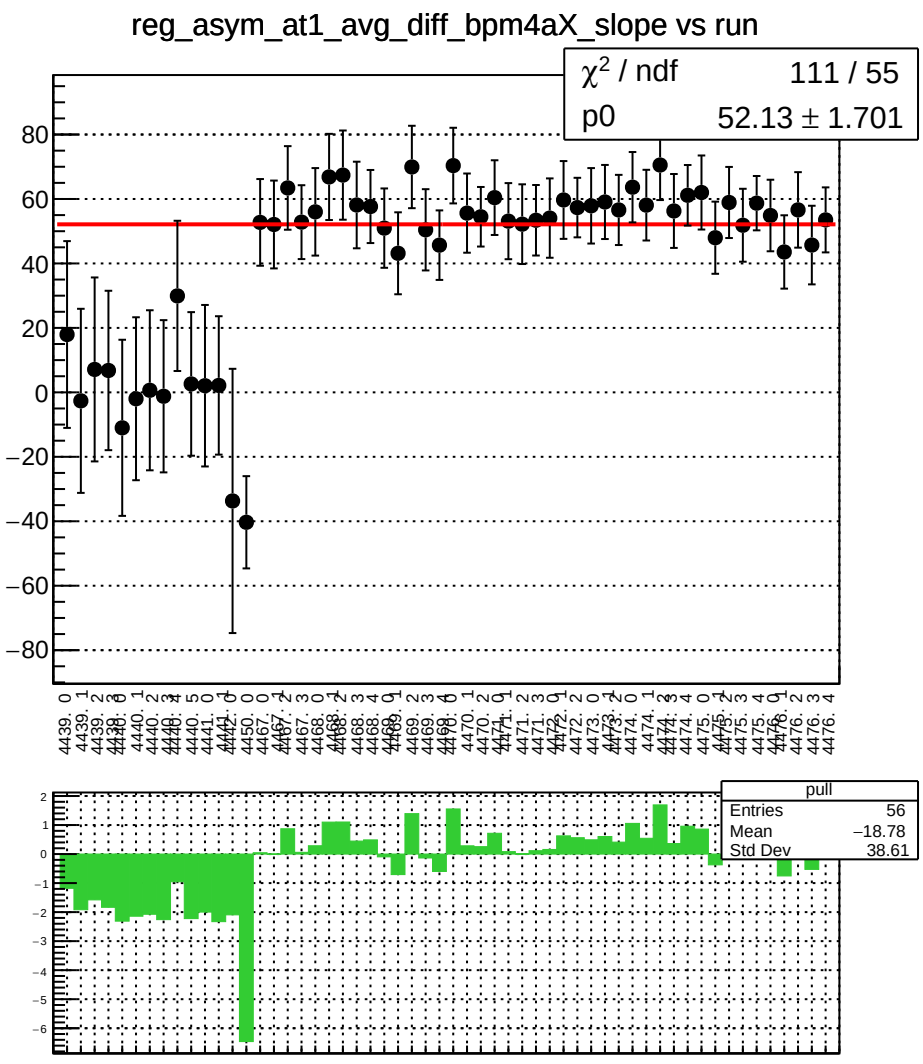

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 139.9 / 55
p0 −73.75 ± 0.2662
pull
Entries 56
Mean −69.35
Std Dev 89.3
pull1D
Entries 56
Mean −0.1673
Std Dev 1.572

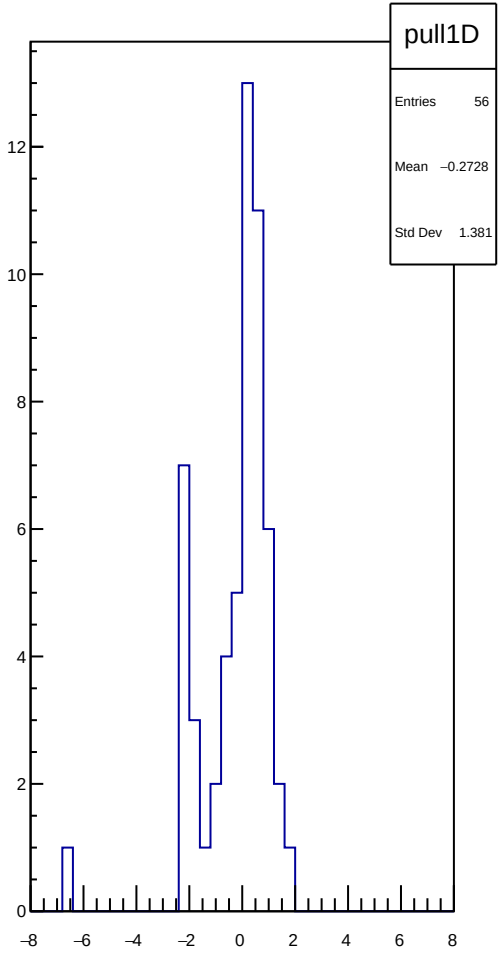

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.84 / 55
p0 −12.99 ± 1.994
pull
Entries 56
Mean −17.56
Std Dev 48.25

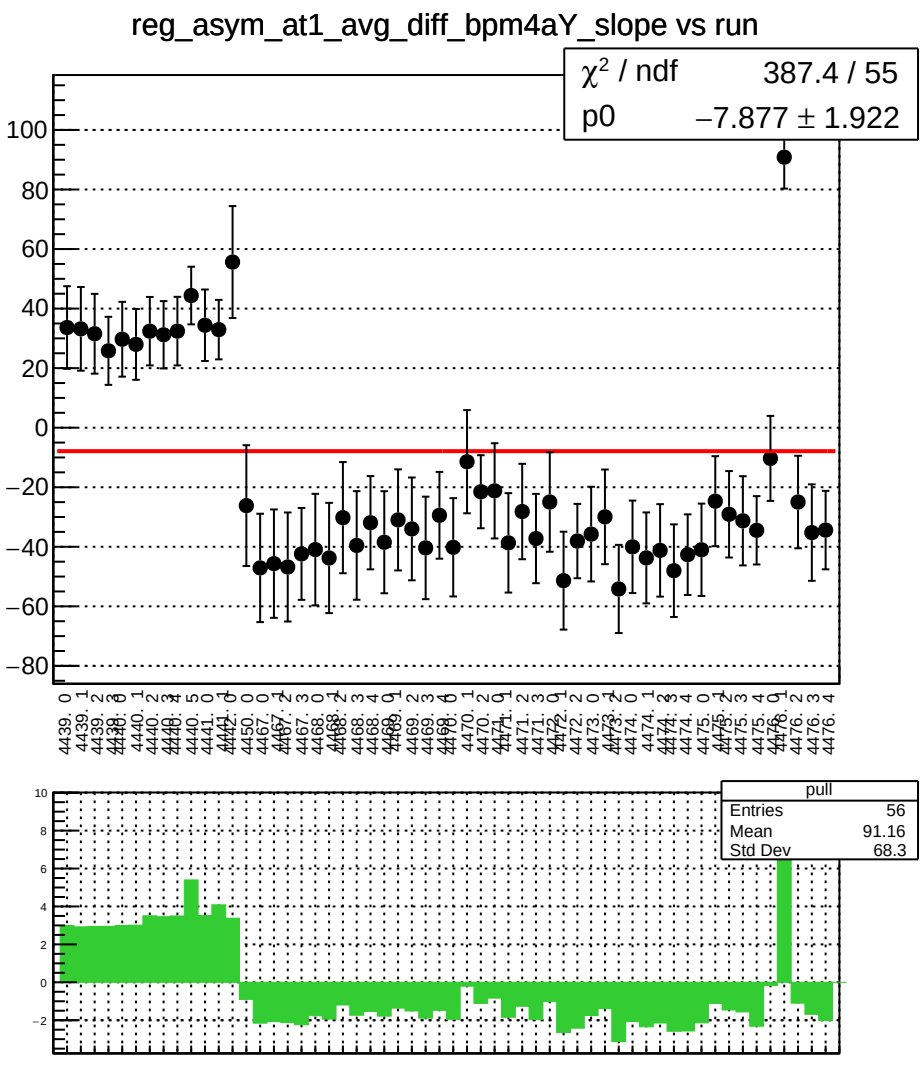

pull1D
Entries 56
Mean 0.07359
Std Dev 1.031

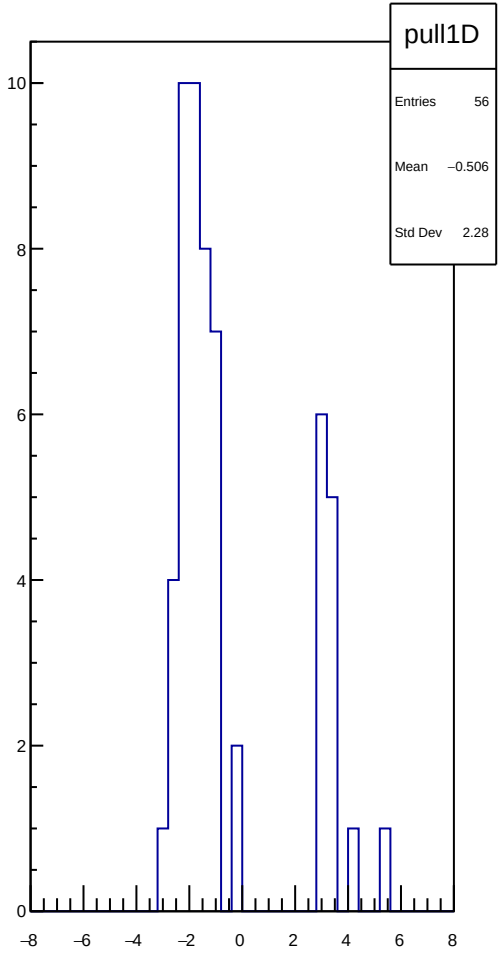

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 137.2 / 55
p0 47.8 ± 0.3565
pull
Entries 56
Mean −103.4
Std Dev 121.8

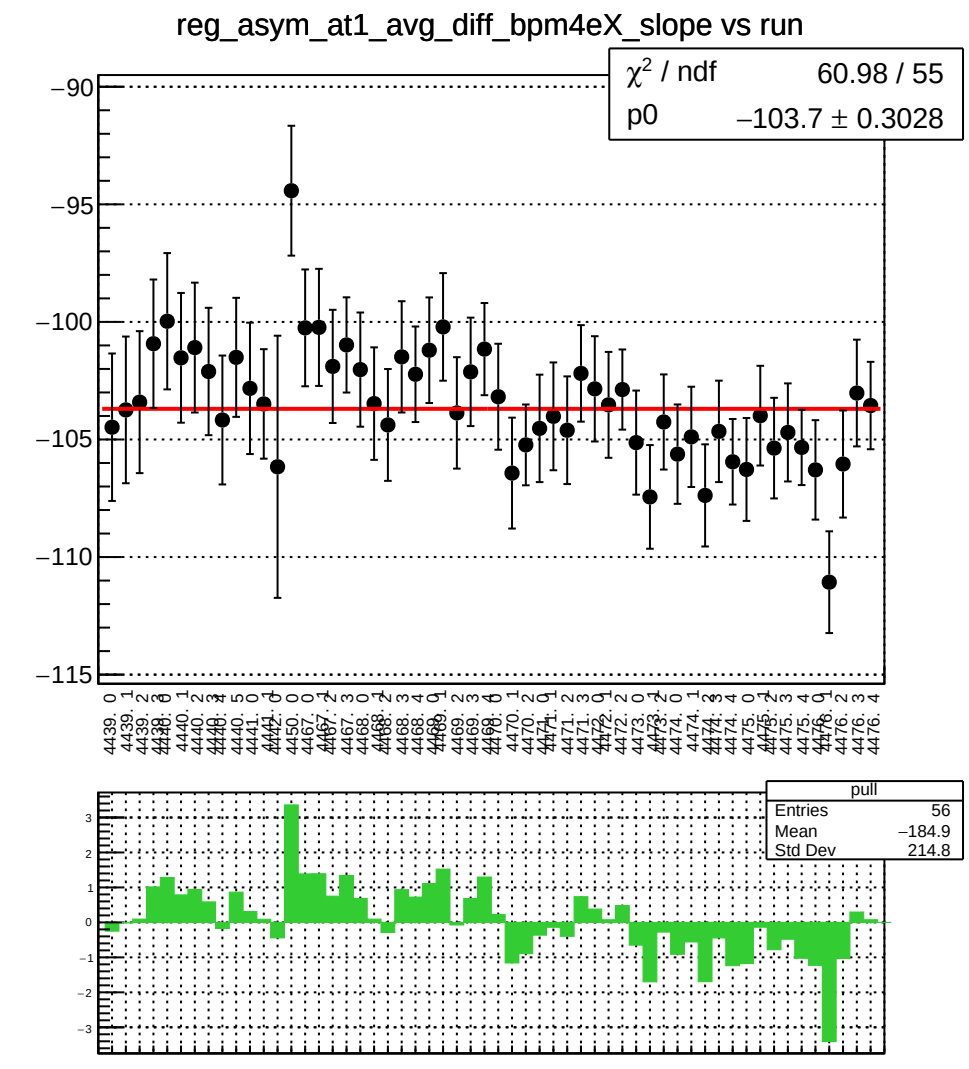

pull1D
Entries 56
Mean −0.1039
Std Dev 1.562

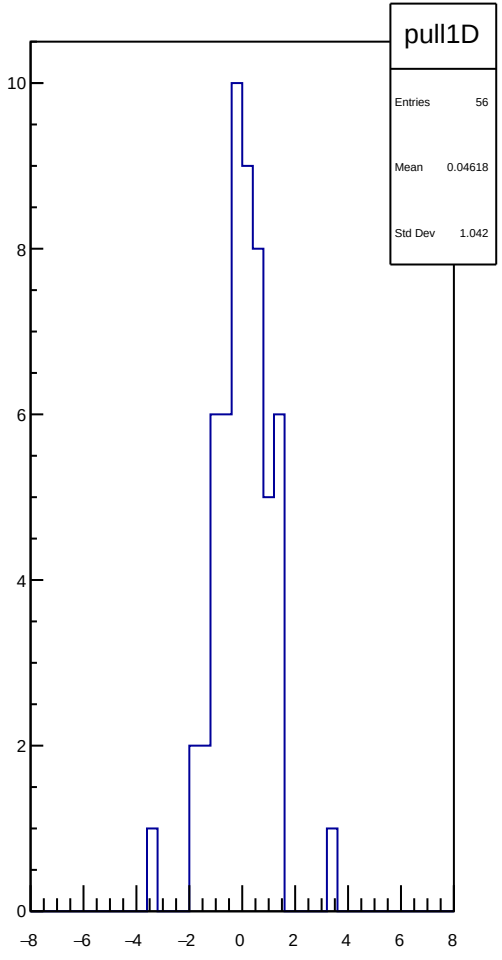

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 111 / 55
p0 52.13 ± 1.701
pull
Entries 56
Mean −18.78
Std Dev 38.61

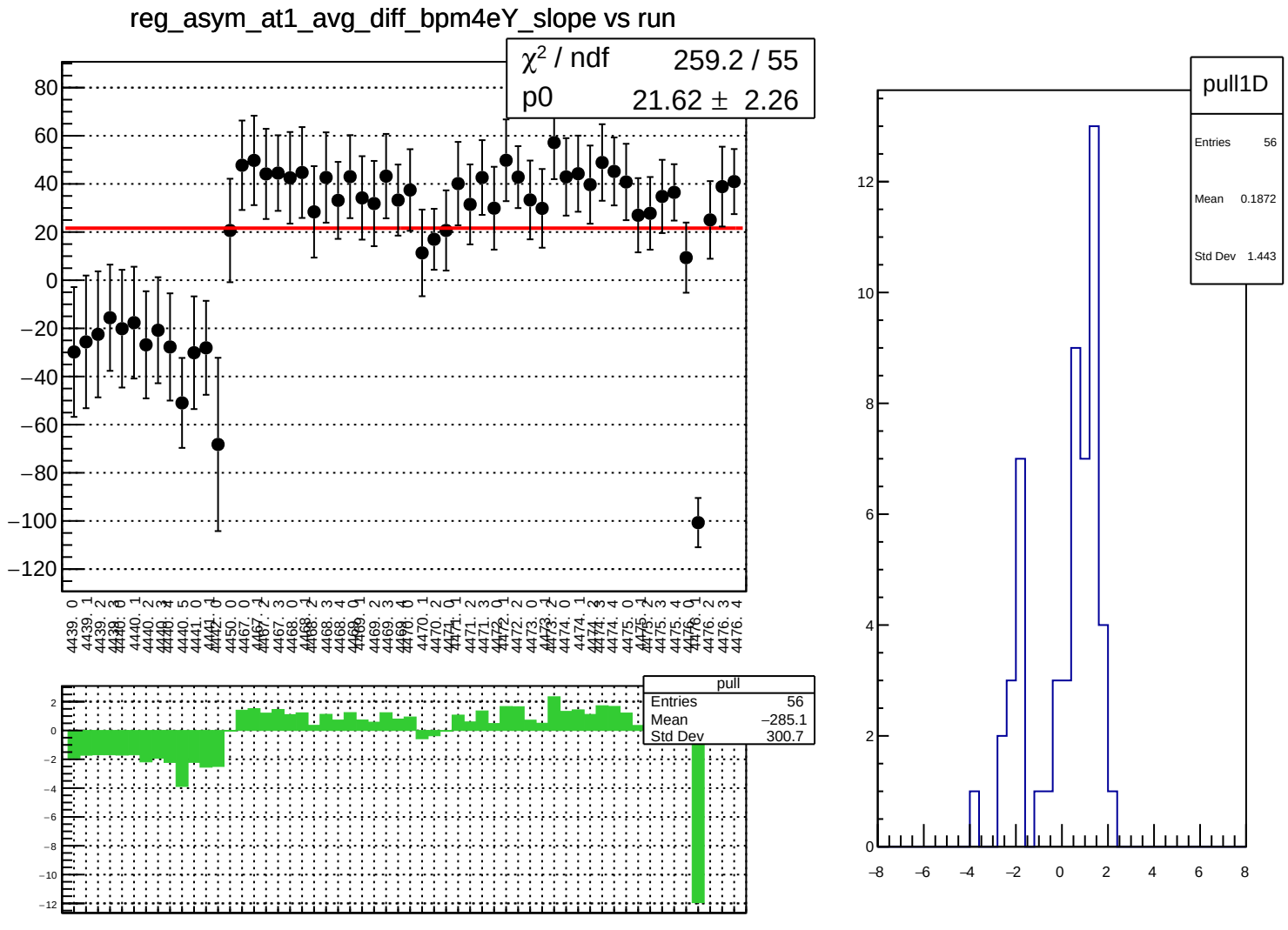

pull1D
Entries 56
Mean −0.2728
Std Dev 1.381

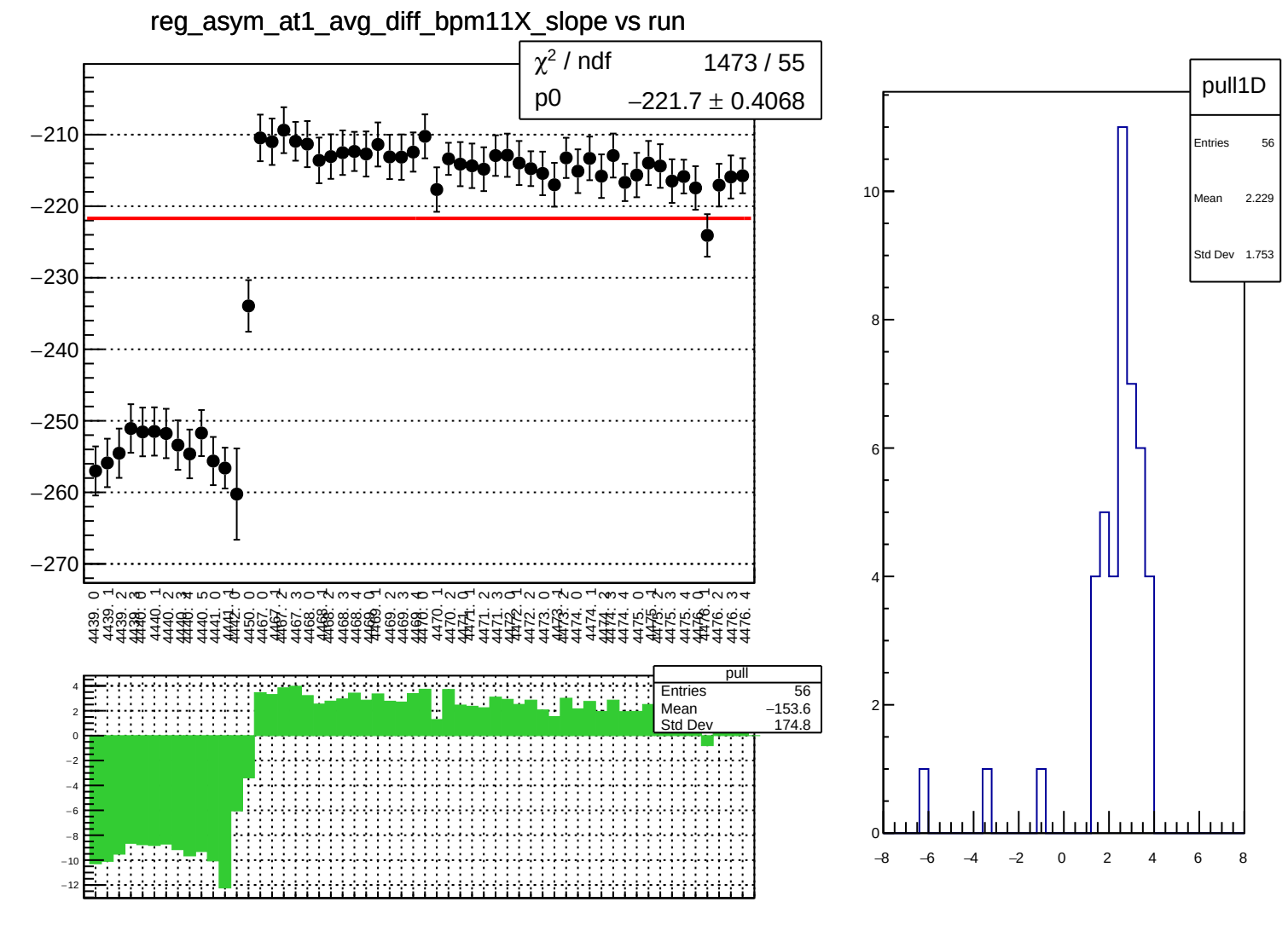

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 387.4 / 55
p0 −7.877 ± 1.922
pull
Entries 56
Mean 91.16
Std Dev 68.3

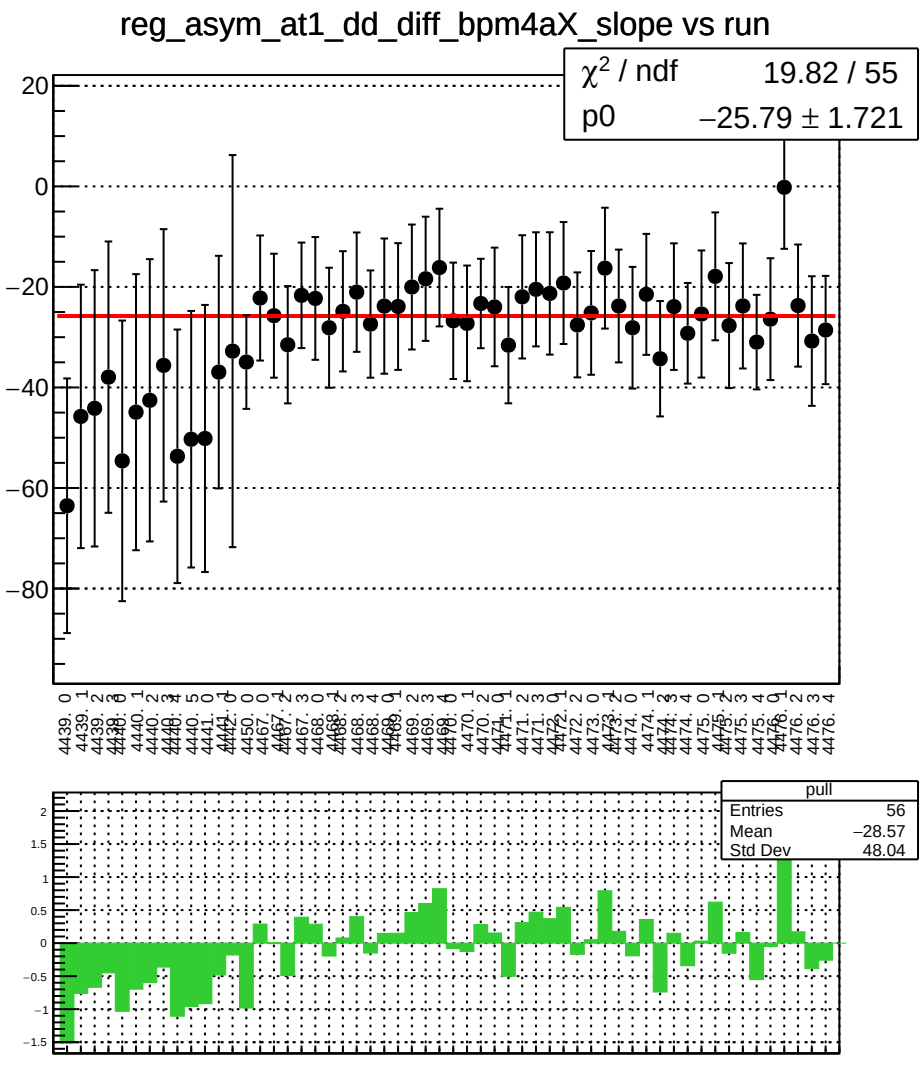

pull1D
Entries 56
Mean −0.506
Std Dev 2.28

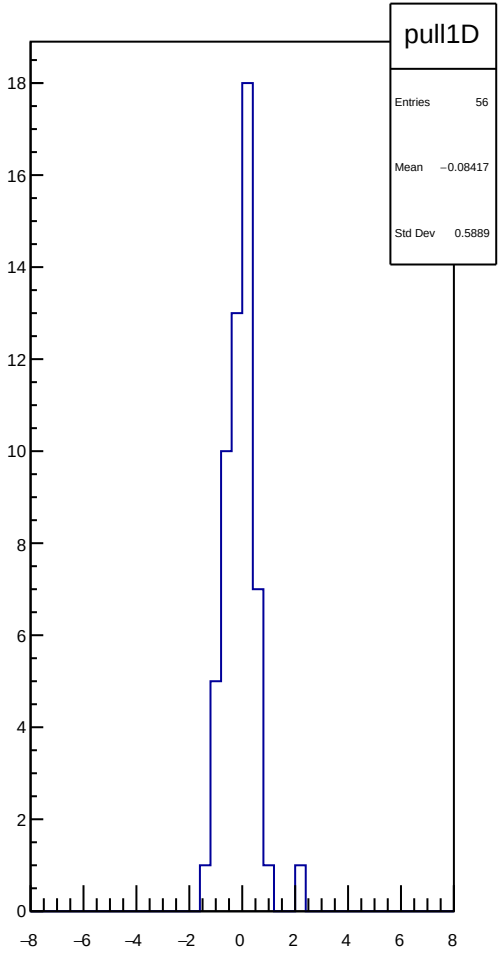

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.98 / 55
p0 −103.7 ± 0.3028
pull
Entries 56
Mean −184.9
Std Dev 214.8

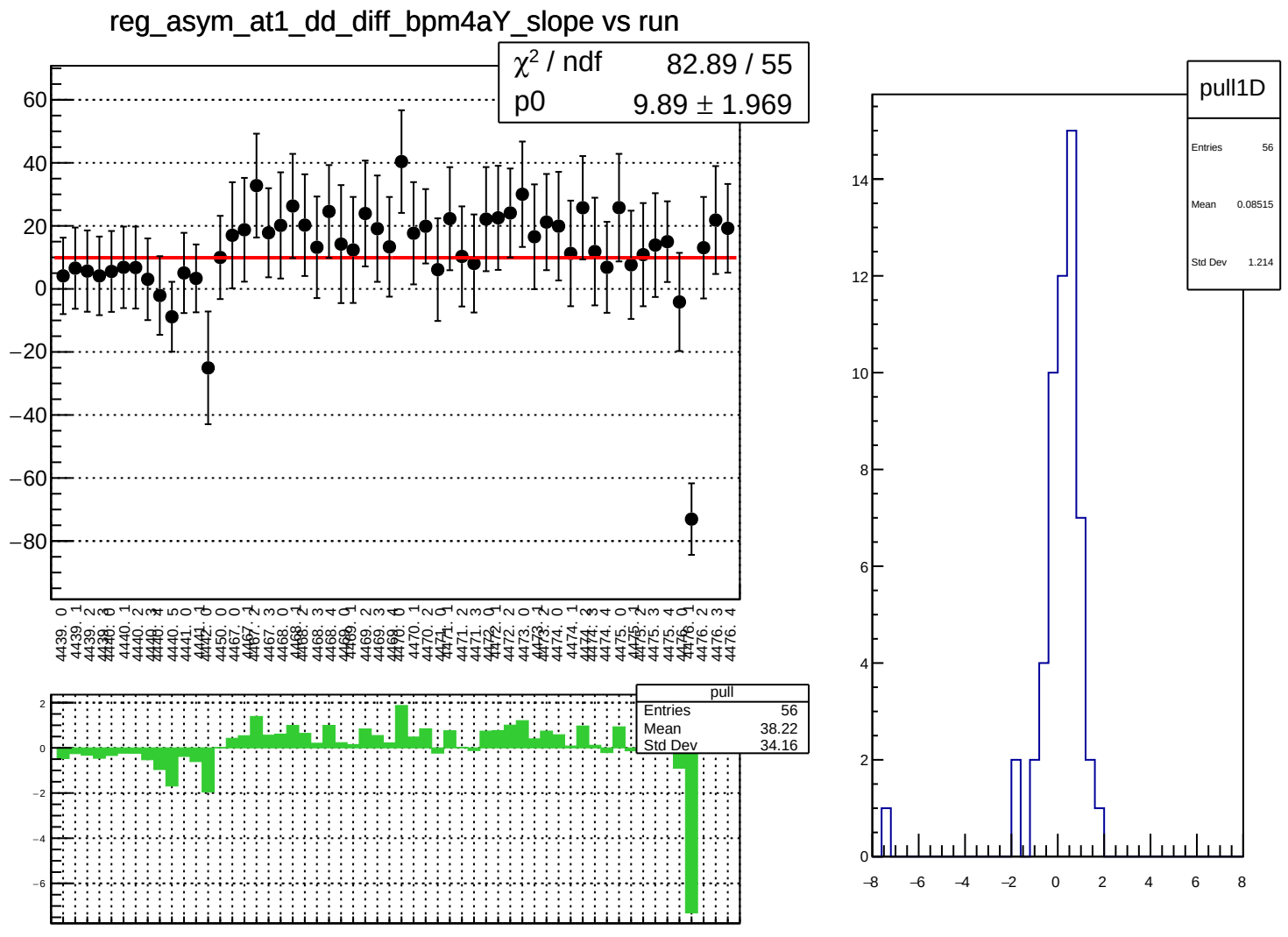

pull1D
Entries 56
Mean 0.04618
Std Dev 1.042

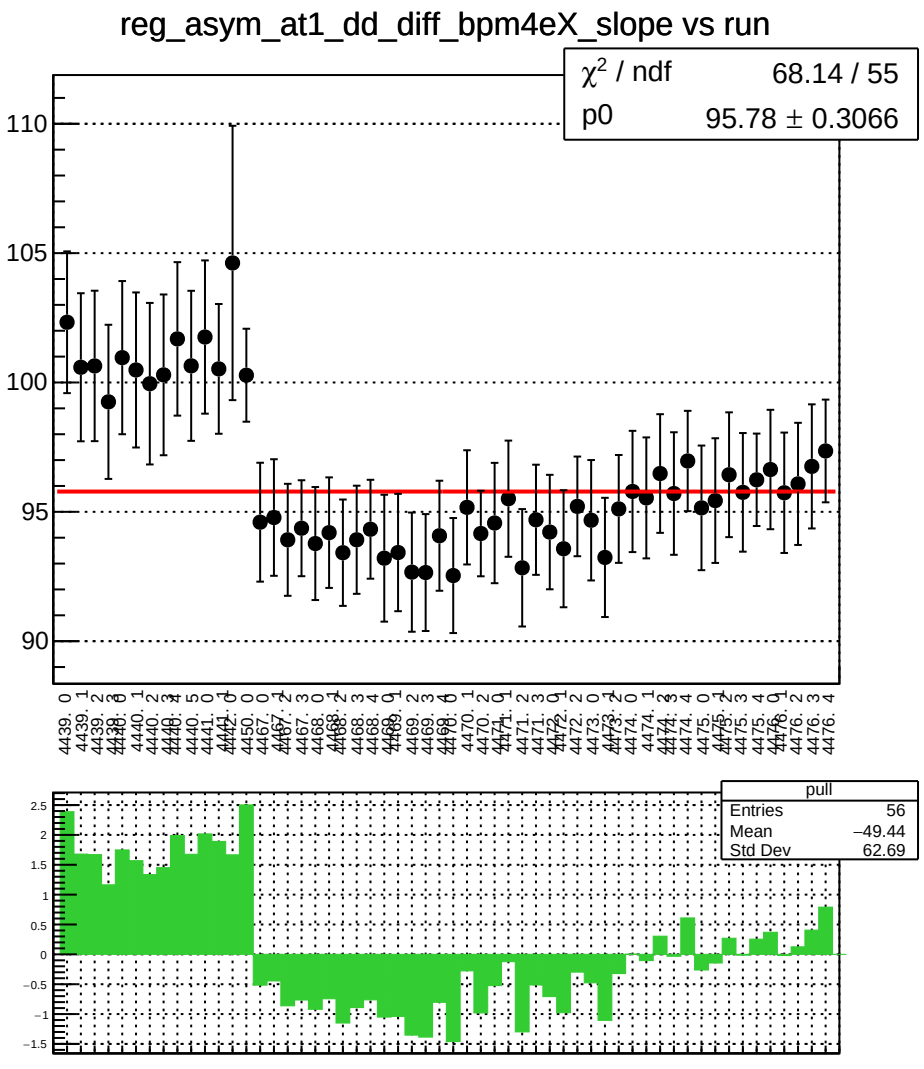

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 259.2 / 55
p0 21.62 ± 2.26
pull
Entries 56
Mean −285.1
Std Dev 300.7
pull1D
Entries 56
Mean 0.1872
Std Dev 1.443

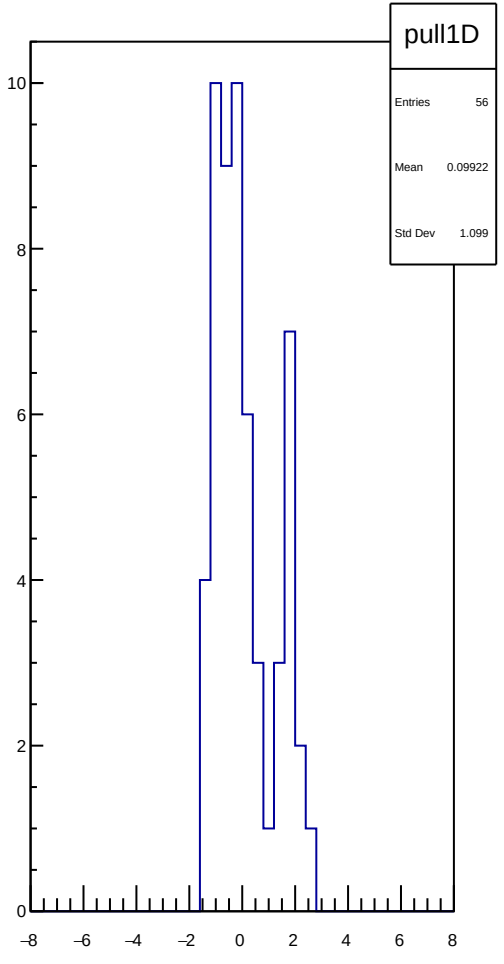

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 1473 / 55
p0 −221.7 ± 0.4068
pull
Entries 56
Mean −153.6
Std Dev 174.8
pull1D
Entries 56
Mean 2.229
Std Dev 1.753

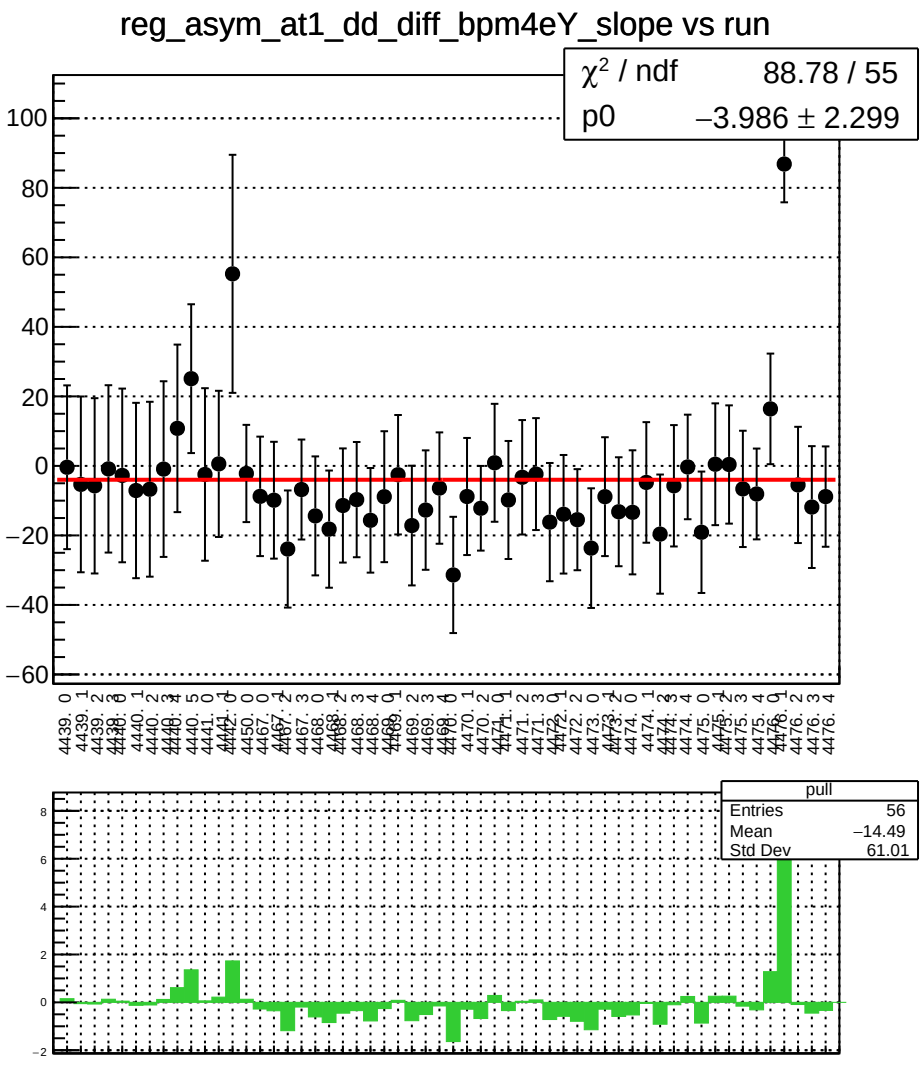

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 19.82 / 55
p0 −25.79 ± 1.721
pull
Entries 56
Mean −28.57
Std Dev 48.04

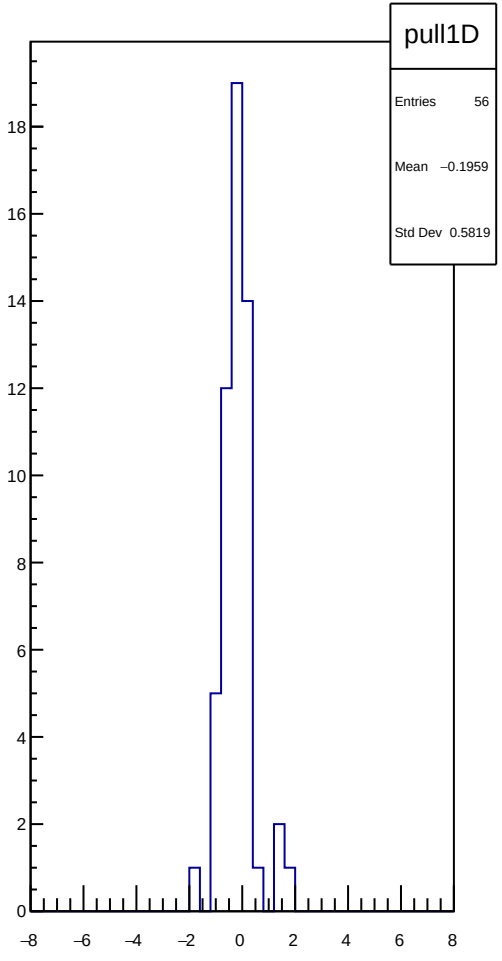

pull1D
Entries 56
Mean −0.08417
Std Dev 0.5889

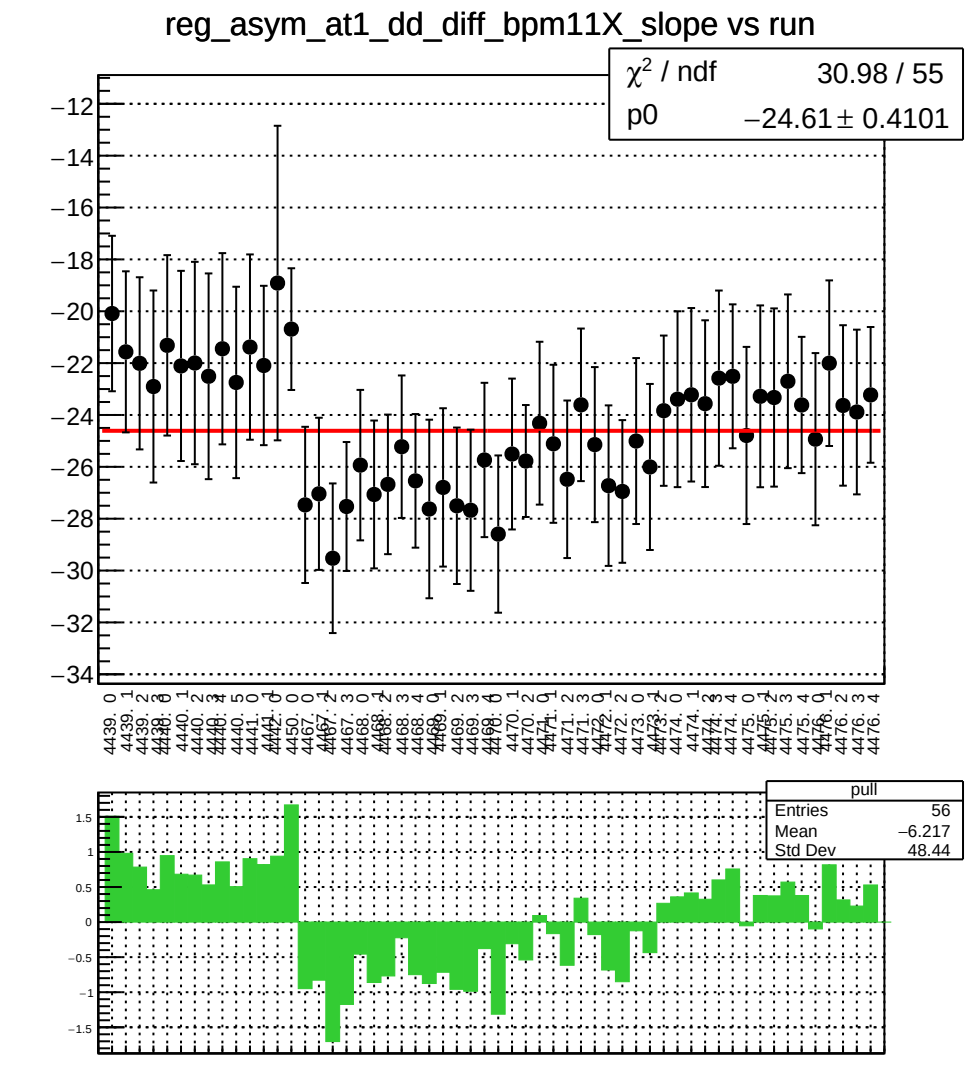

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.89 / 55
p0 9.89 ± 1.969
pull
Entries 56
Mean 38.22
Std Dev 34.16
pull1D
Entries 56
Mean 0.08515
Std Dev 1.214

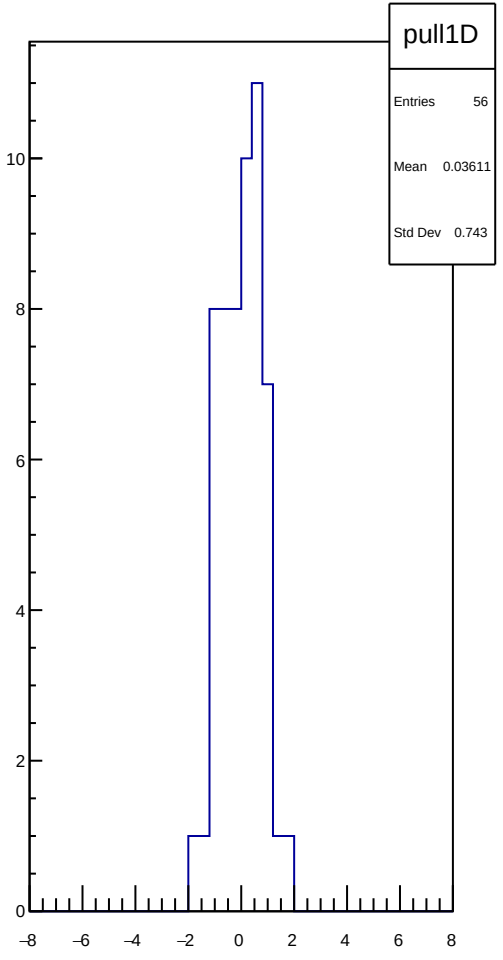

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.14 / 55
p0 95.78 ± 0.3066
110
105
100
95
90
pull
Entries 56
Mean −49.44
Std Dev 62.69
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

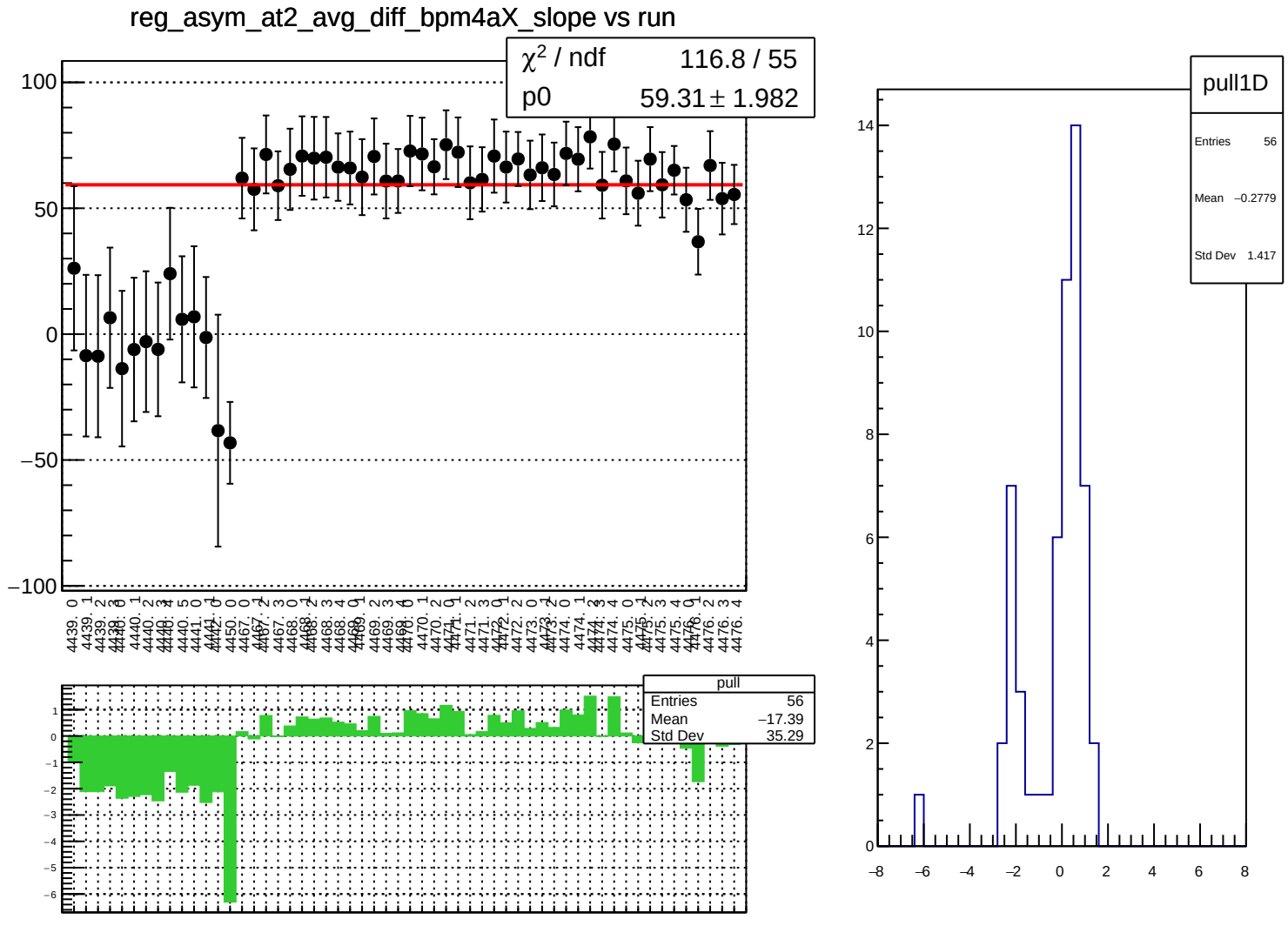

pull1D
Entries 56
Mean 0.09922
Std Dev 1.099
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

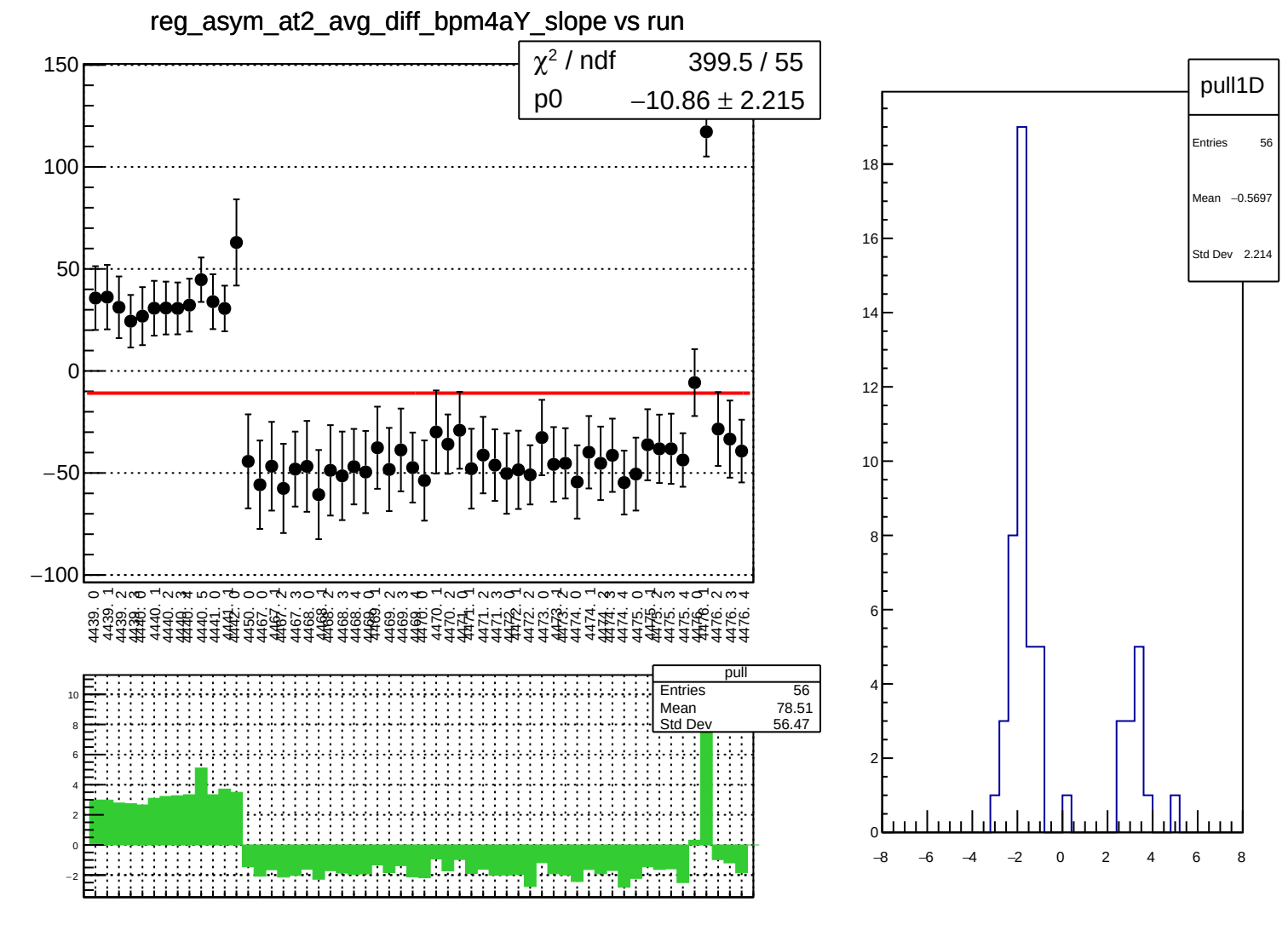

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 88.78 / 55
p0 −3.986 ± 2.299
pull
Entries 56
Mean −14.49
Std Dev 61.01

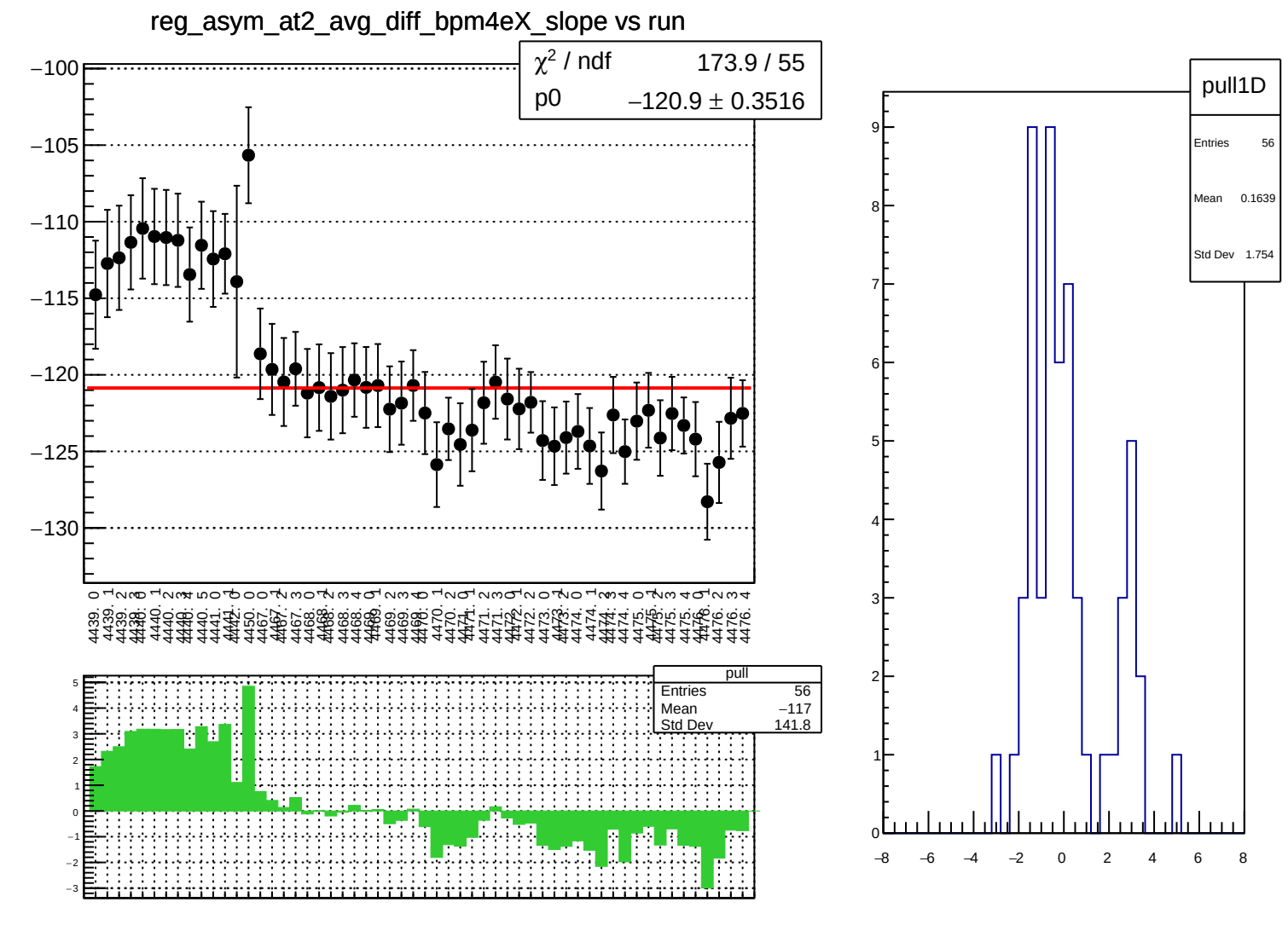

pull1D
Entries 56
Mean −0.1959
Std Dev 0.5819

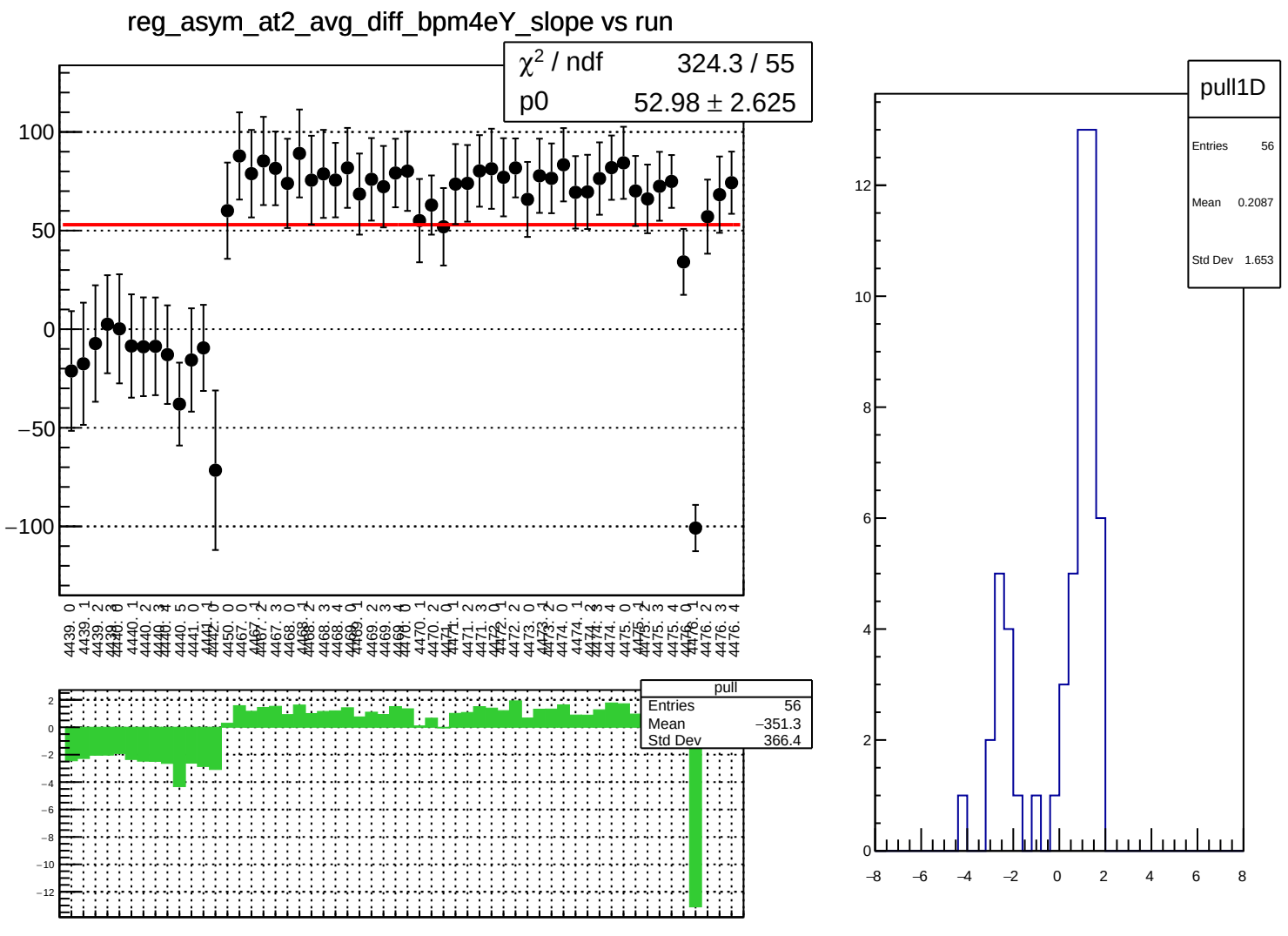

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 30.98 / 55
p0 −24.61 ± 0.4101
pull
Entries 56
Mean −6.217
Std Dev 48.44

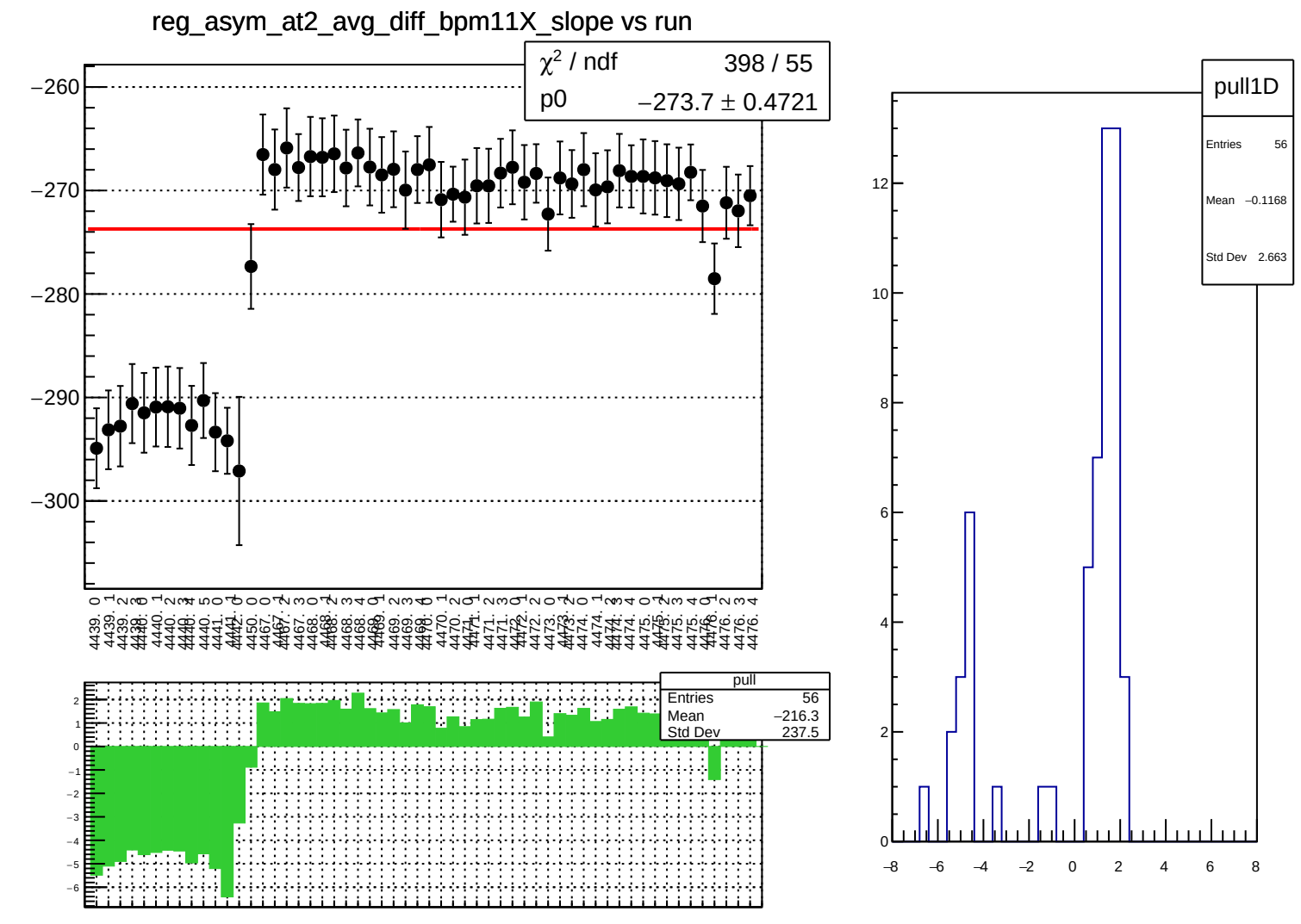

pull1D
Entries 56
Mean 0.03611
Std Dev 0.743

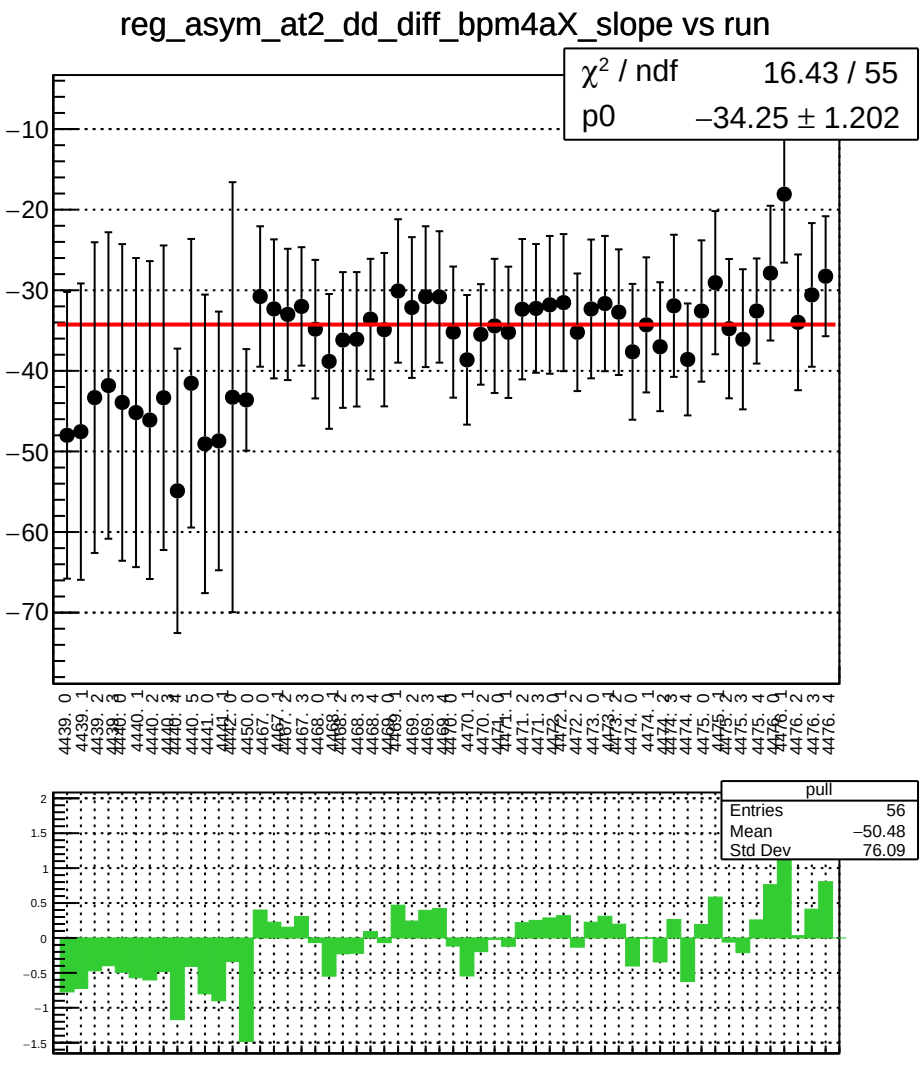

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 116.8 / 55
p0 59.31 ± 1.982
pull
Entries 56
Mean −17.39
Std Dev 35.29
pull1D
Entries 56
Mean −0.2779
Std Dev 1.417

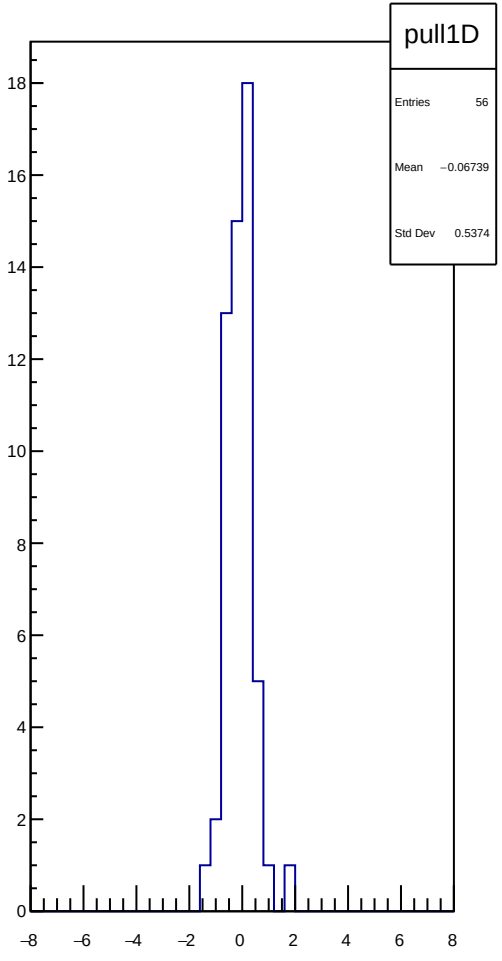

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 399.5 / 55
p0 −10.86 ± 2.215
pull
Entries 56
Mean 78.51
Std Dev 56.47
pull1D
Entries 56
Mean −0.5697
Std Dev 2.214

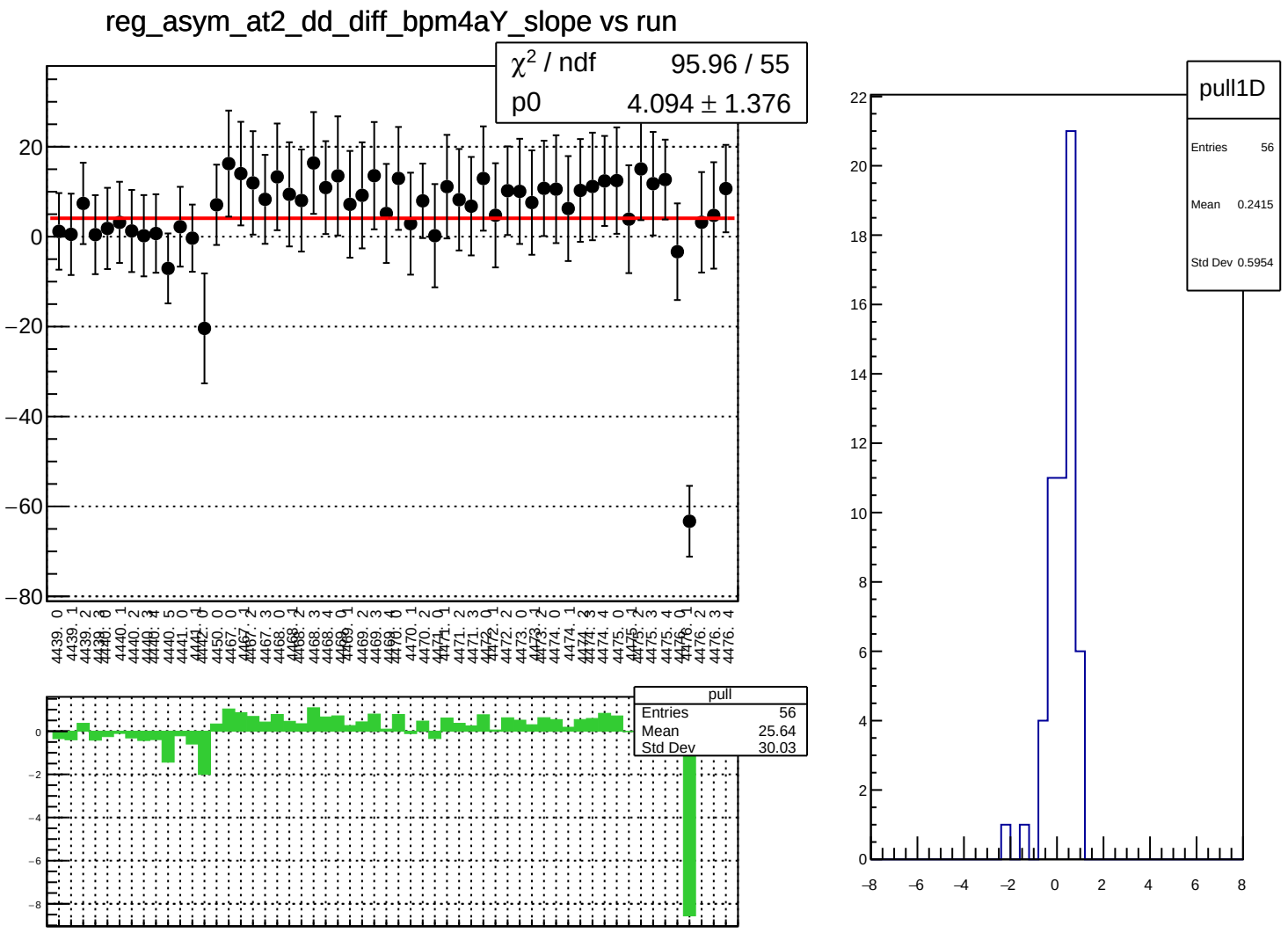

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 173.9 / 55
p0 −120.9 ± 0.3516
pull
Entries 56
Mean −117
Std Dev 141.8
pull1D
Entries 56
Mean 0.1639
Std Dev 1.754

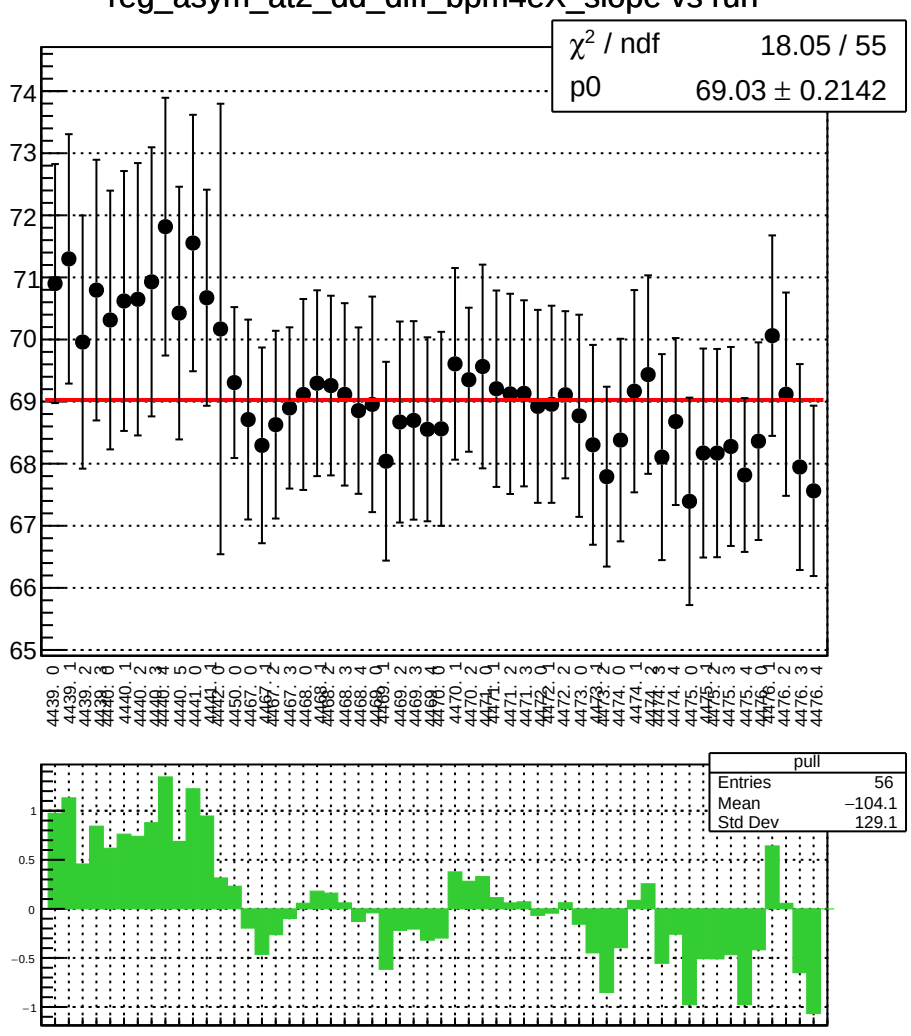

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 324.3 / 55
p0 52.98 ± 2.625
pull
Entries 56
Mean −351.3
Std Dev 366.4
pull1D
Entries 56
Mean 0.2087
Std Dev 1.653

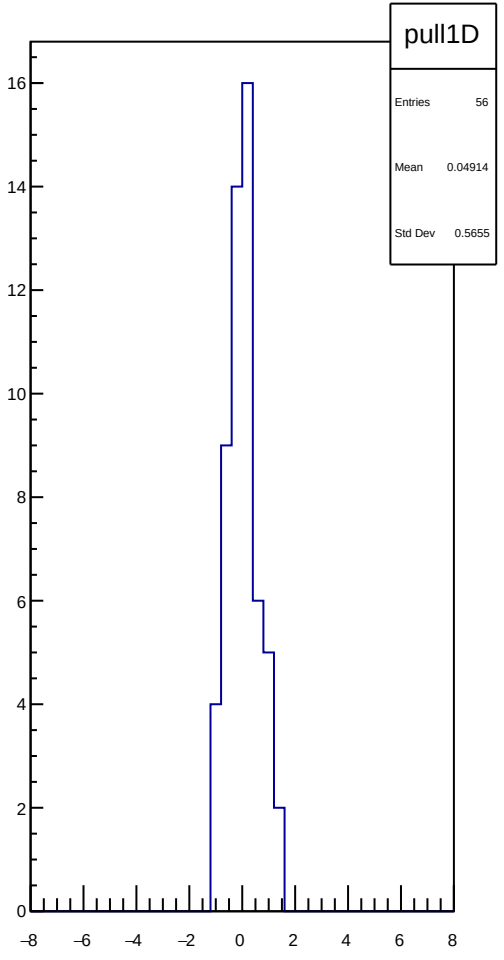

reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 398 / 55
p0 −273.7 ± 0.4721
pull
Entries 56
Mean −216.3
Std Dev 237.5
pull1D
Entries 56
Mean −0.1168
Std Dev 2.663

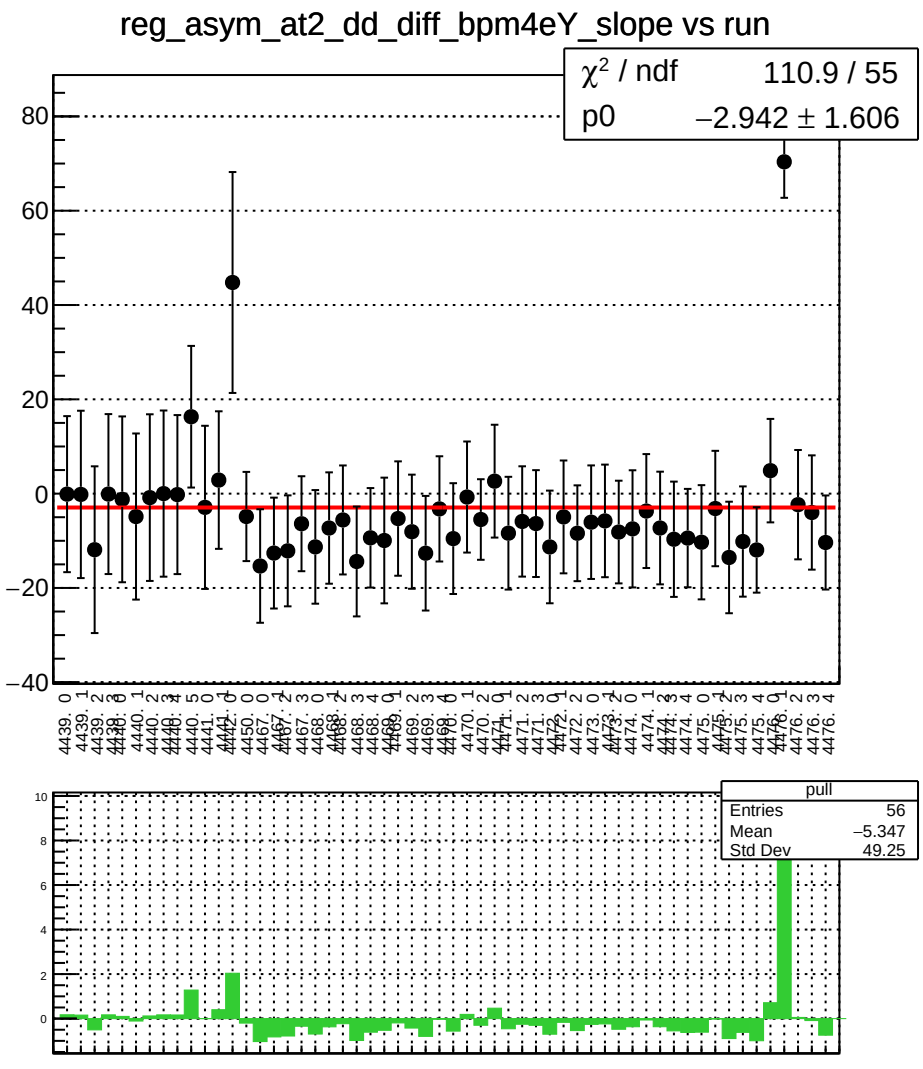

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 16.43 / 55
p0 −34.25 ± 1.202
pull
Entries 56
Mean −50.48
Std Dev 76.09

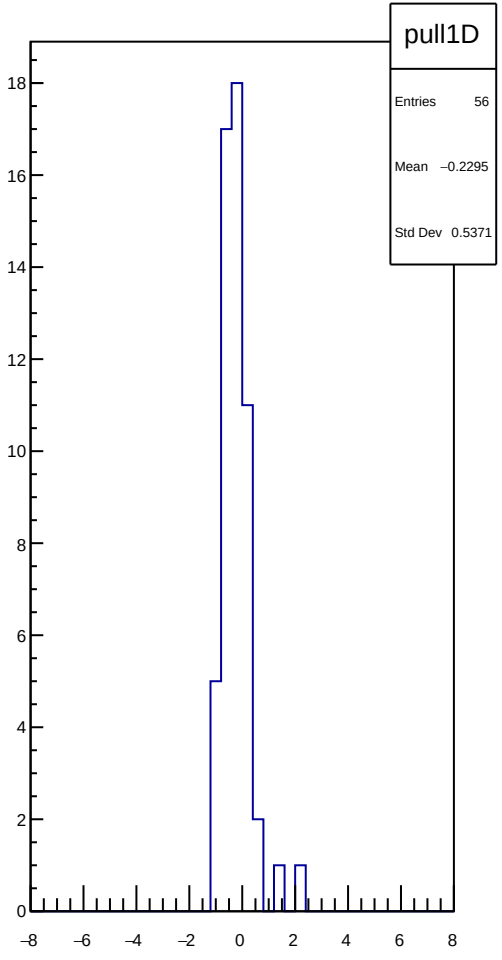

pull1D
Entries 56
Mean −0.06739
Std Dev 0.5374

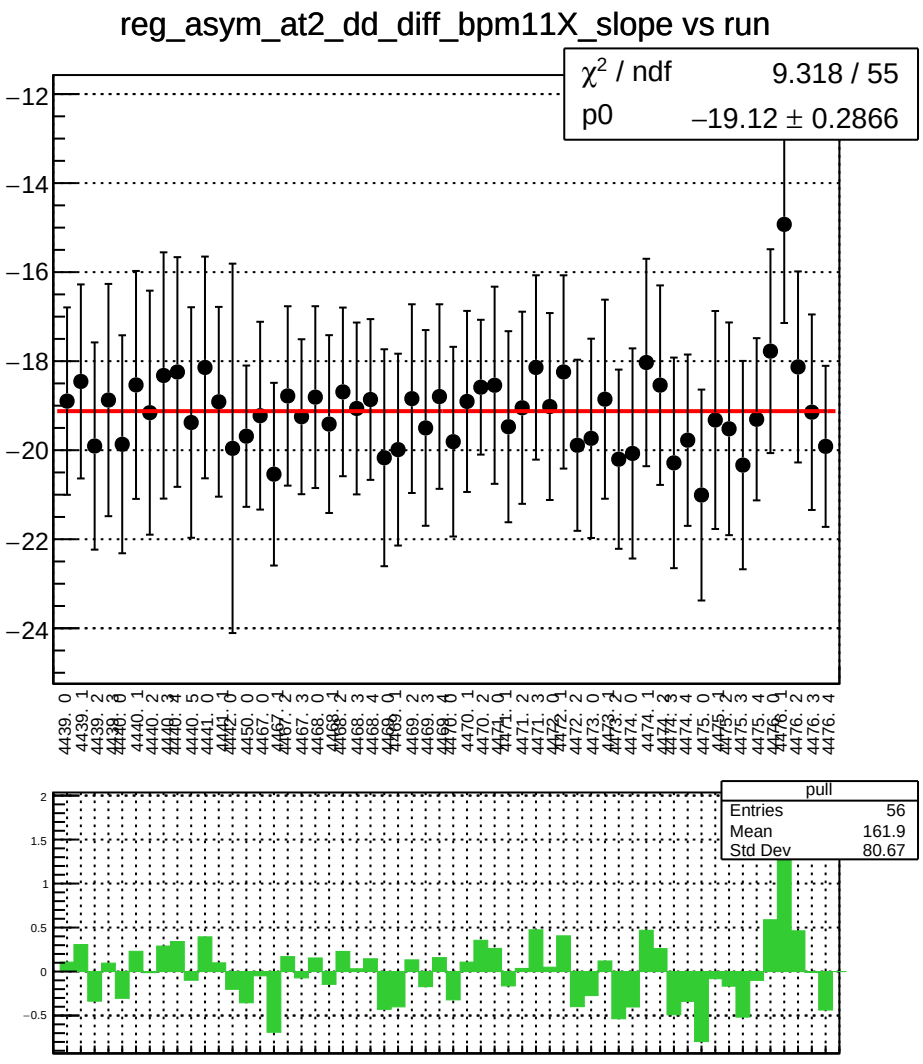

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 95.96 / 55
p0 4.094 ± 1.376
pull
Entries 56
Mean 25.64
Std Dev 30.03
pull1D
Entries 56
Mean 0.2415
Std Dev 0.5954

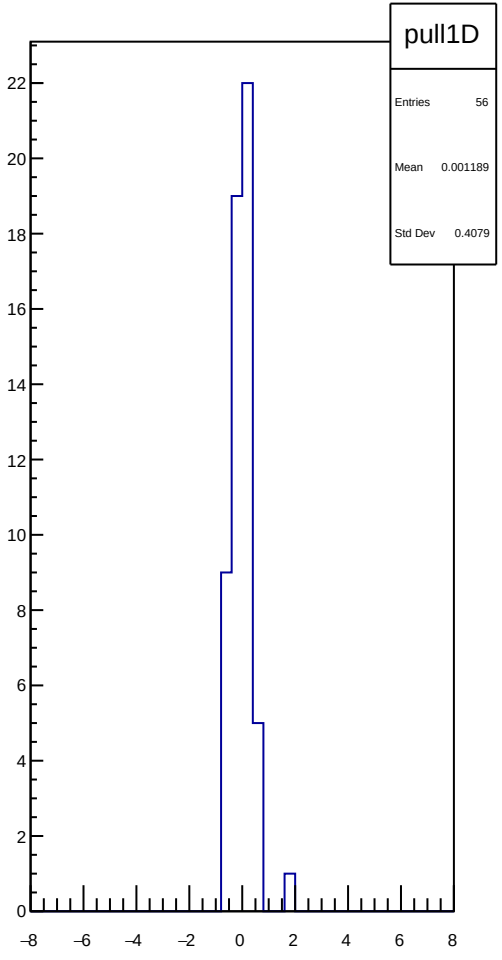

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.05 / 55
p0 69.03 ± 0.2142
pull
Entries 56
Mean −104.1
Std Dev 129.1

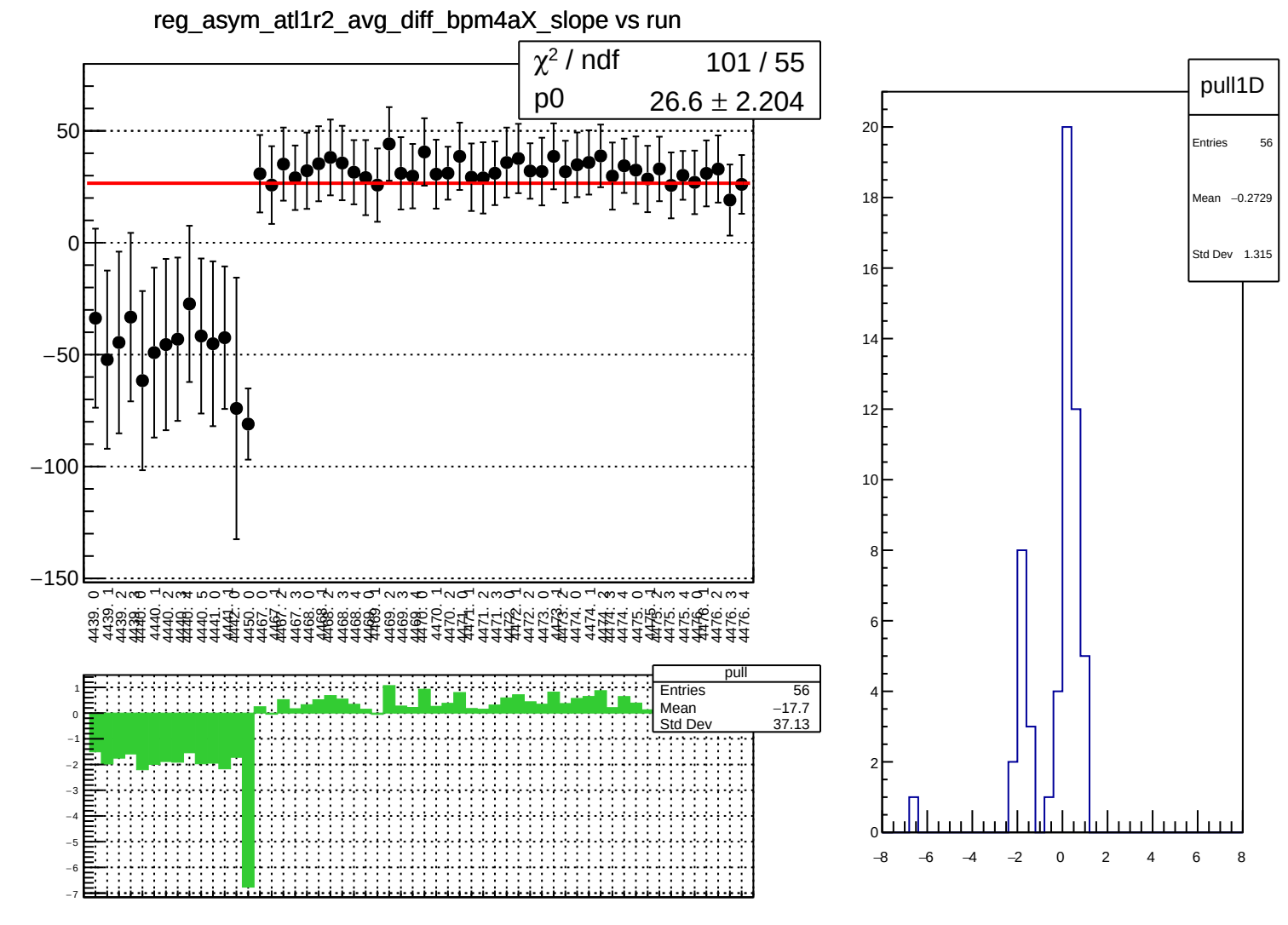

pull1D
Entries 56
Mean 0.04914
Std Dev 0.5655

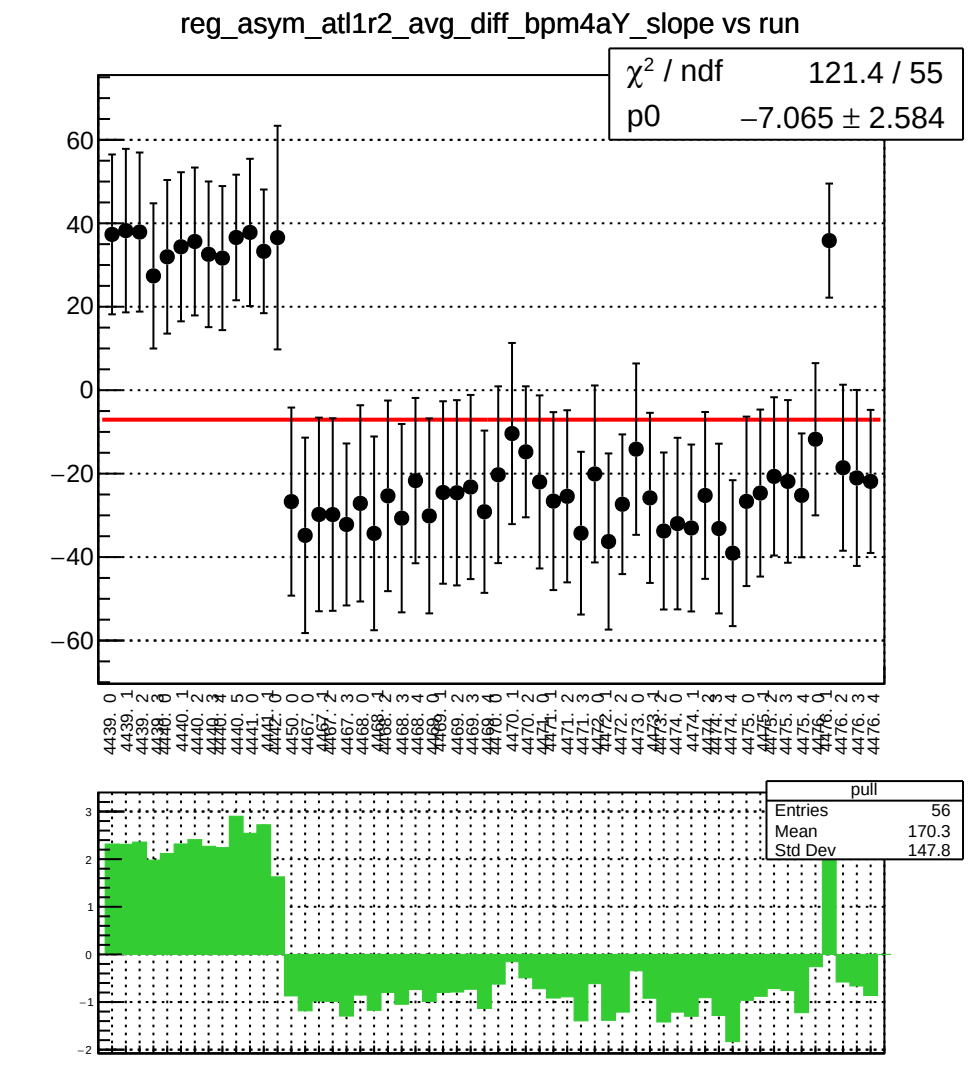

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 110.9 / 55
p0 −2.942 ± 1.606
pull
Entries 56
Mean −5.347
Std Dev 49.25

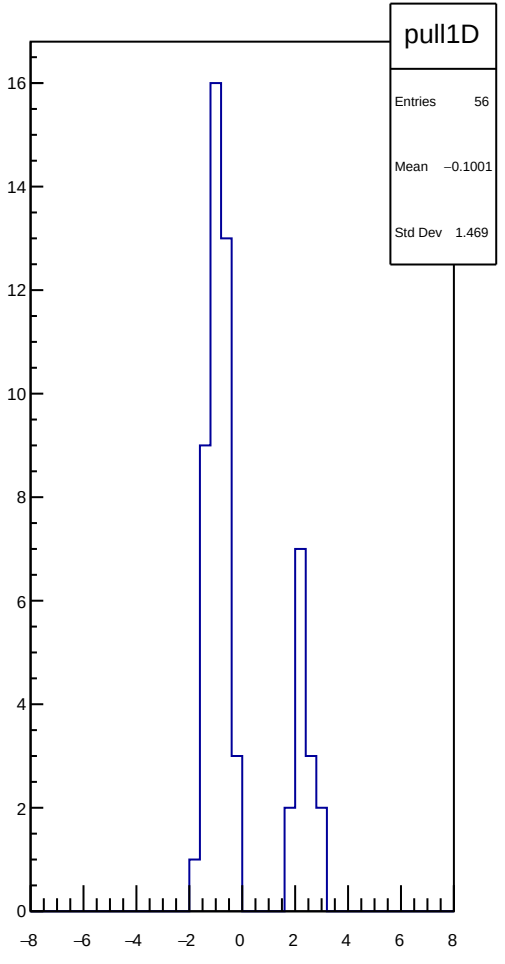

pull1D
Entries 56
Mean −0.2295
Std Dev 0.5371

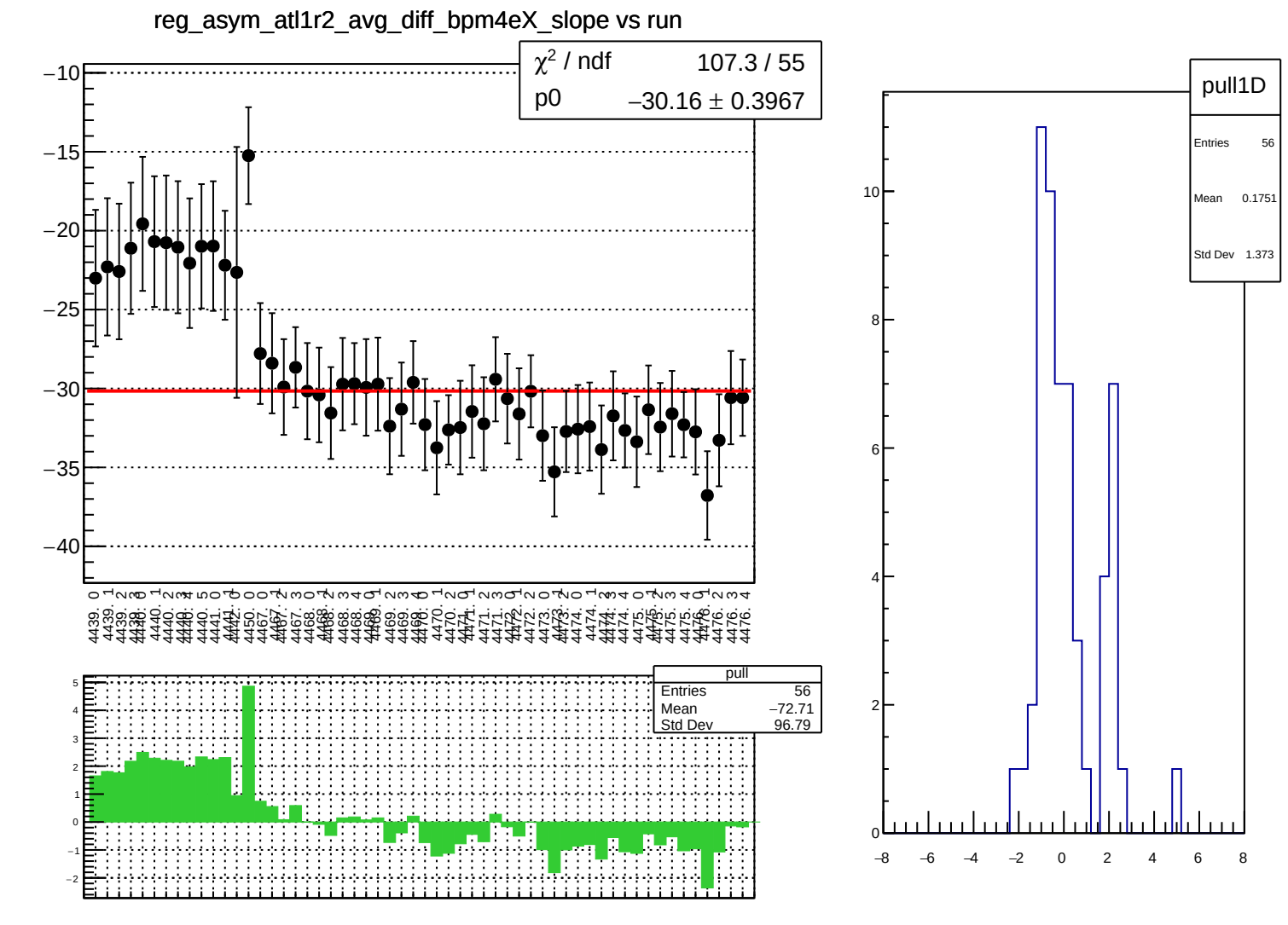

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 9.318 / 55
p0 −19.12 ± 0.2866
pull
Entries 56
Mean 161.9
Std Dev 80.67

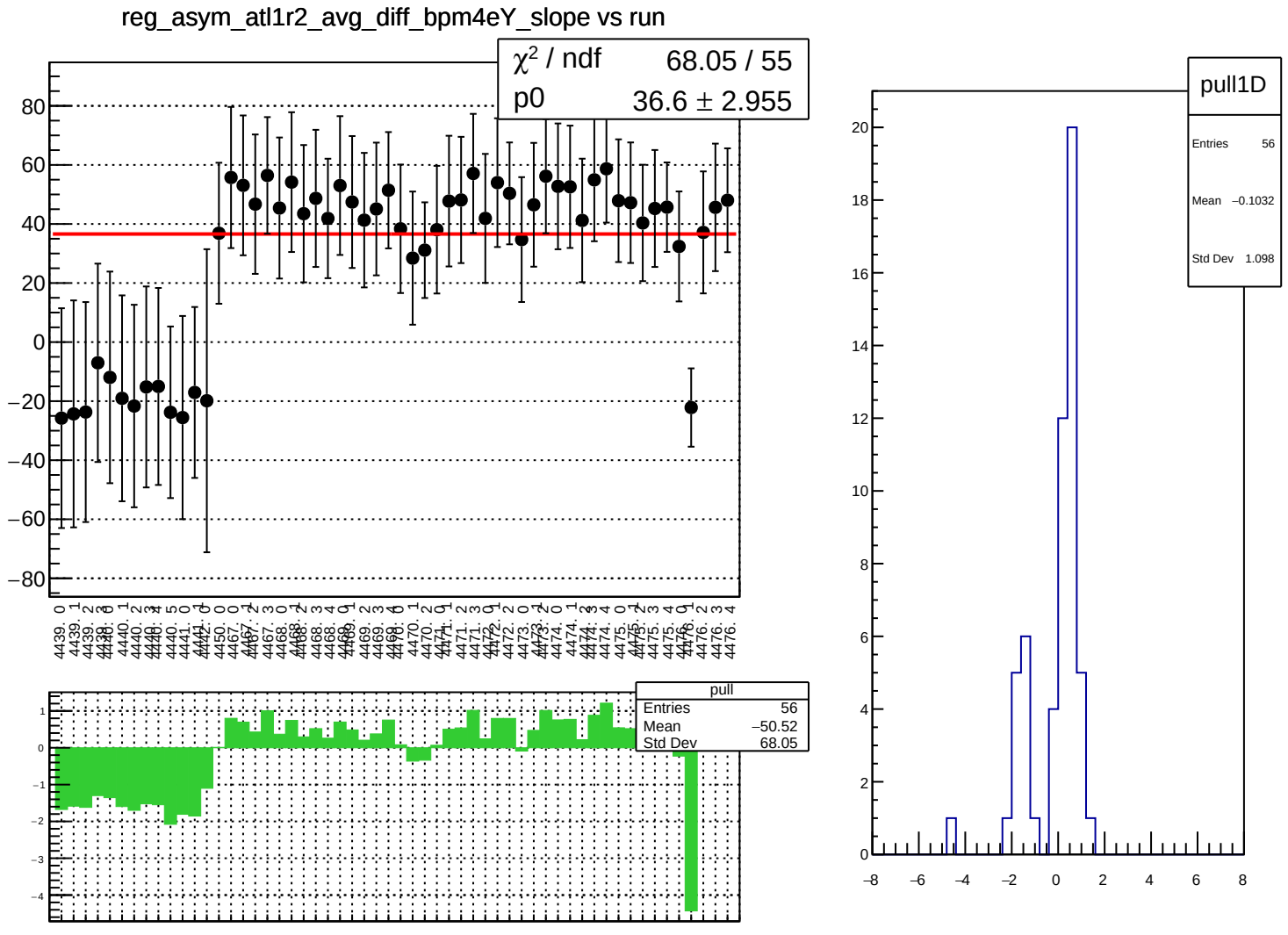

pull1D
Entries 56
Mean 0.001189
Std Dev 0.4079

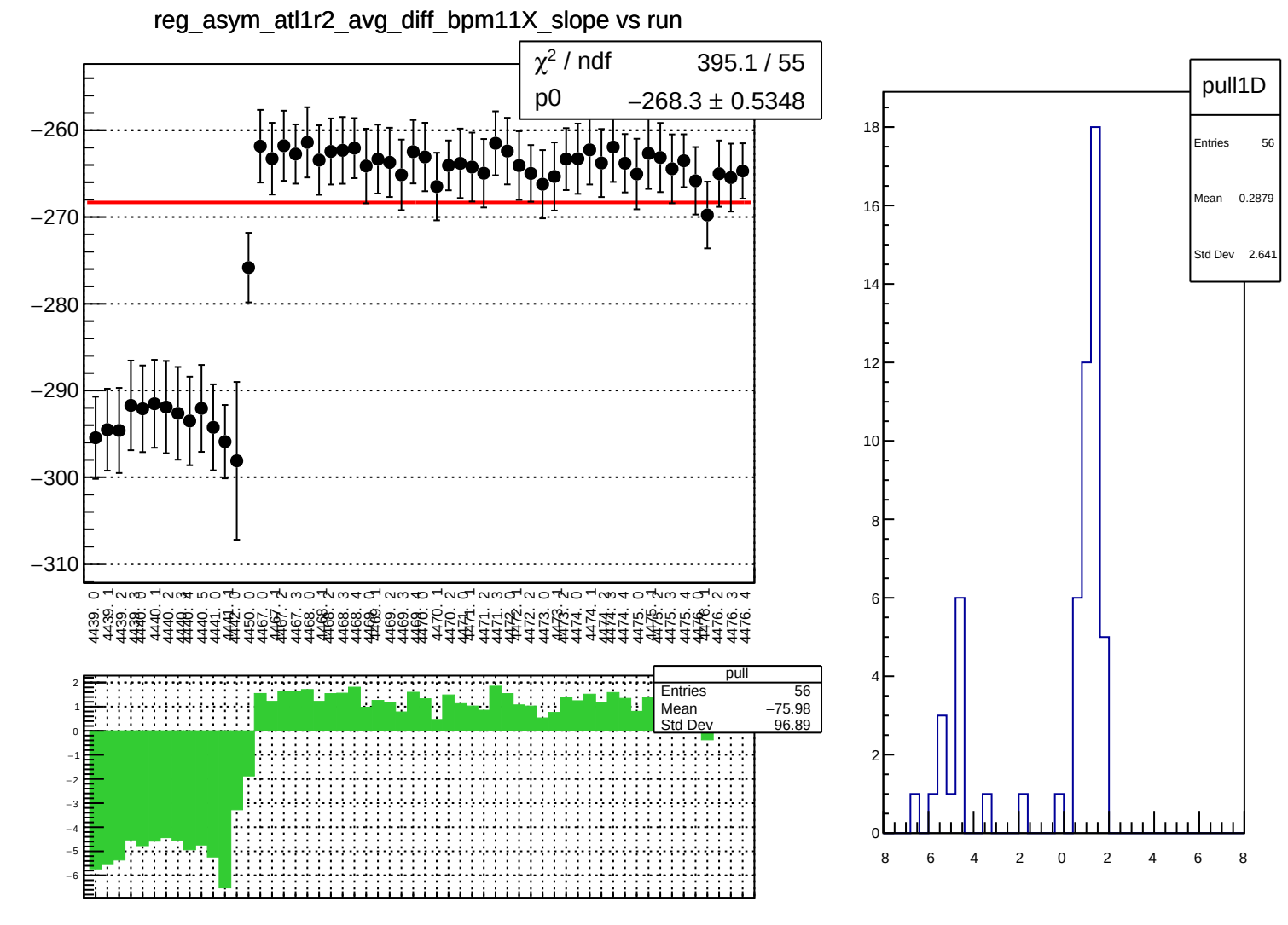

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 101 / 55
p0 26.6 ± 2.204
50
0
−50
−100
−150
pull
Entries 56
Mean −17.7
Std Dev 37.13
pull1D
Entries 56
Mean −0.2729
Std Dev 1.315

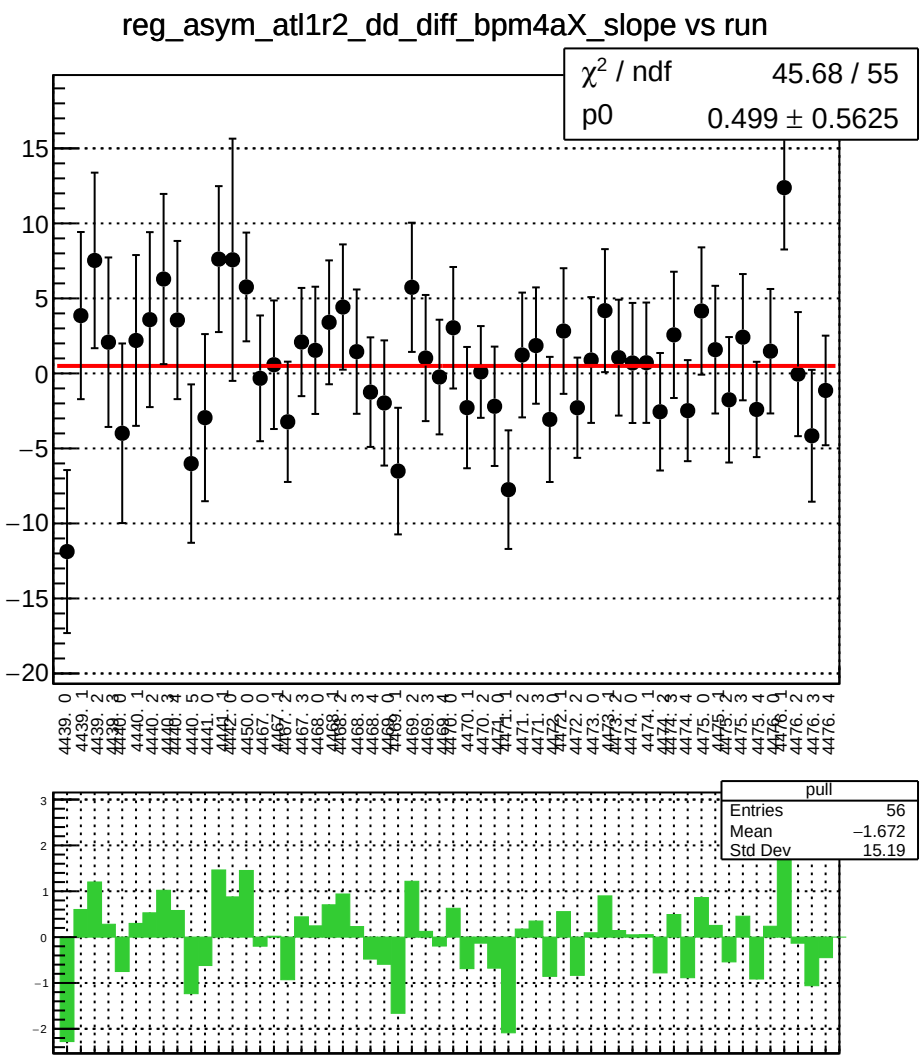

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 121.4 / 55
p0 −7.065 ± 2.584
pull
Entries 56
Mean 170.3
Std Dev 147.8

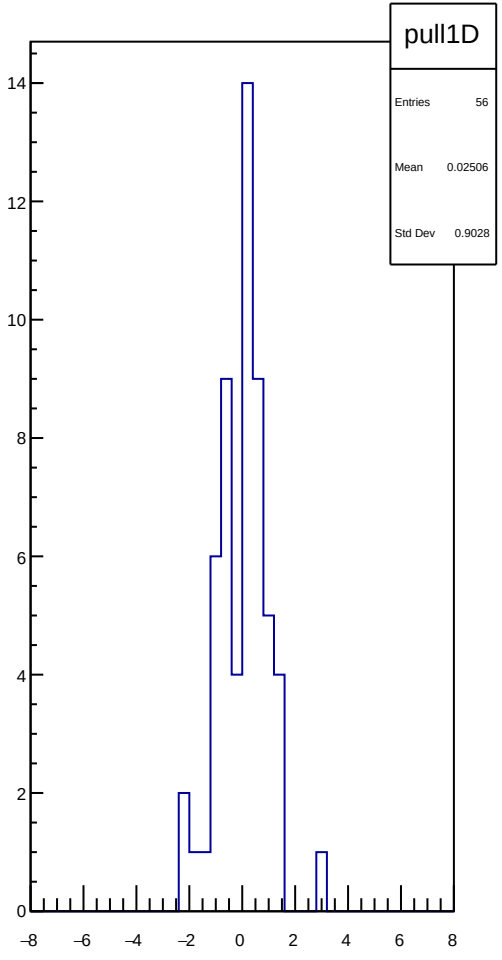

pull1D
Entries 56
Mean −0.1001
Std Dev 1.469

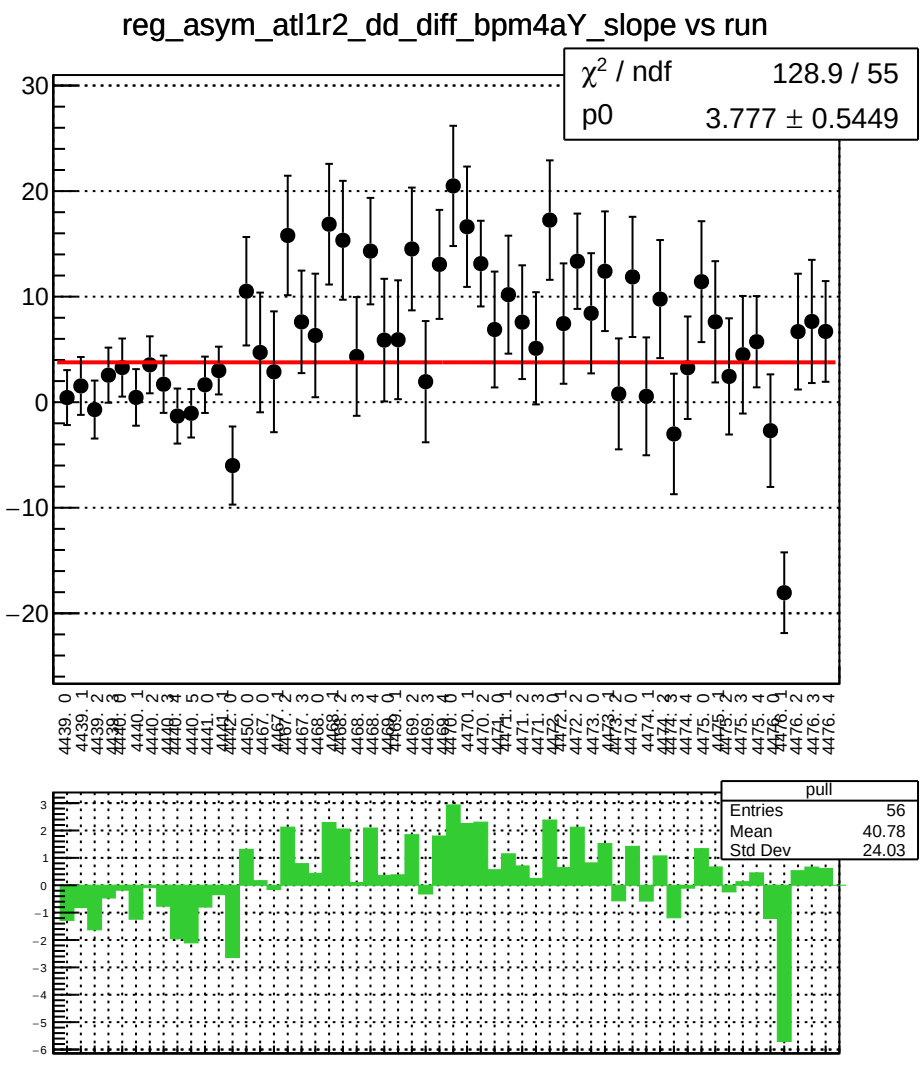

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 107.3 / 55
p0 −30.16 ± 0.3967
pull
Entries 56
Mean −72.71
Std Dev 96.79
pull1D
Entries 56
Mean 0.1751
Std Dev 1.373

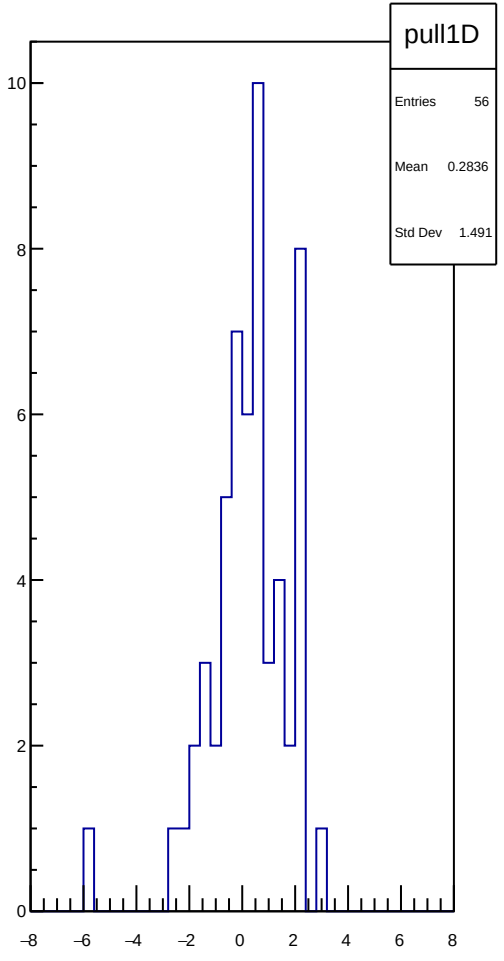

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 68.05 / 55
p0 36.6 ± 2.955
pull
Entries 56
Mean −50.52
Std Dev 68.05
pull1D
Entries 56
Mean −0.1032
Std Dev 1.098

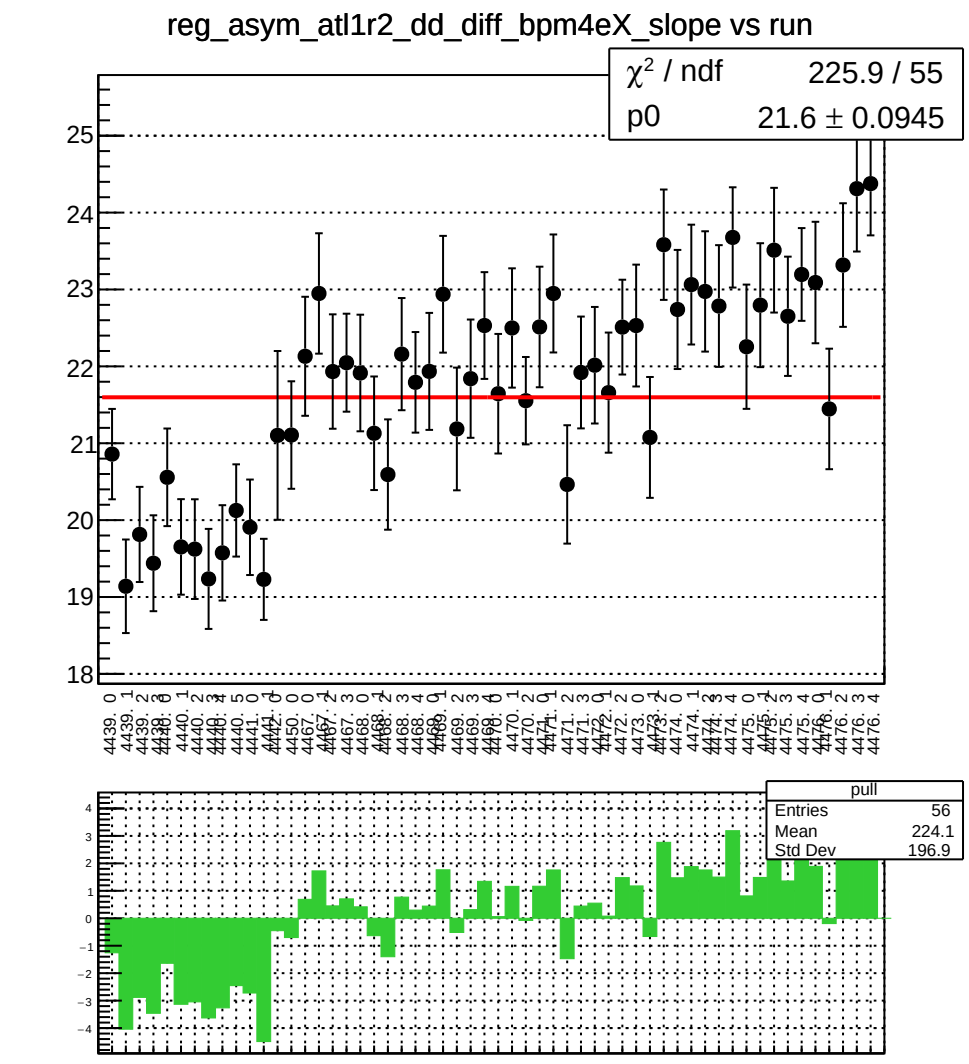

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 395.1 / 55
p0 −268.3 ± 0.5348
−260
−270
−280
−290
−300
−310
pull
Entries 56
Mean −75.98
Std Dev 96.89
pull1D
Entries 56
Mean −0.2879
Std Dev 2.641

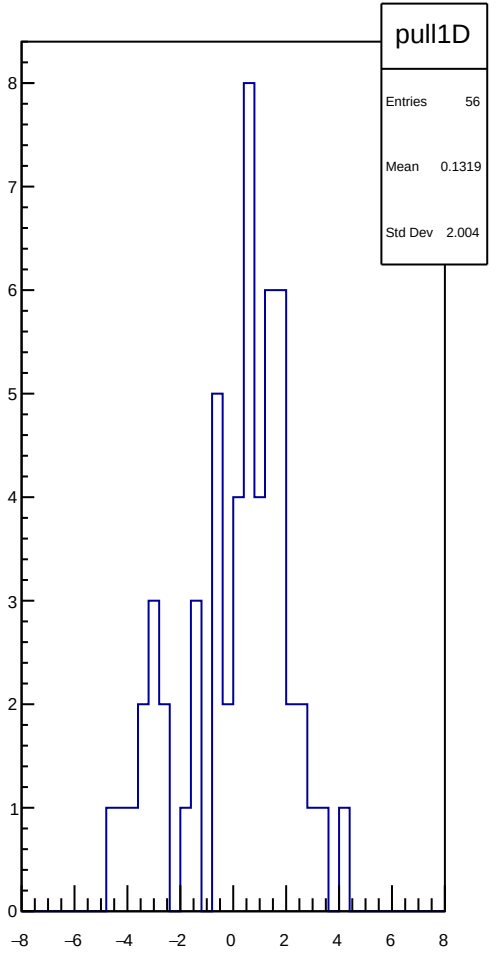

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 45.68 / 55
p0 0.499 ± 0.5625
pull
Entries 56
Mean −1.672
Std Dev 15.19

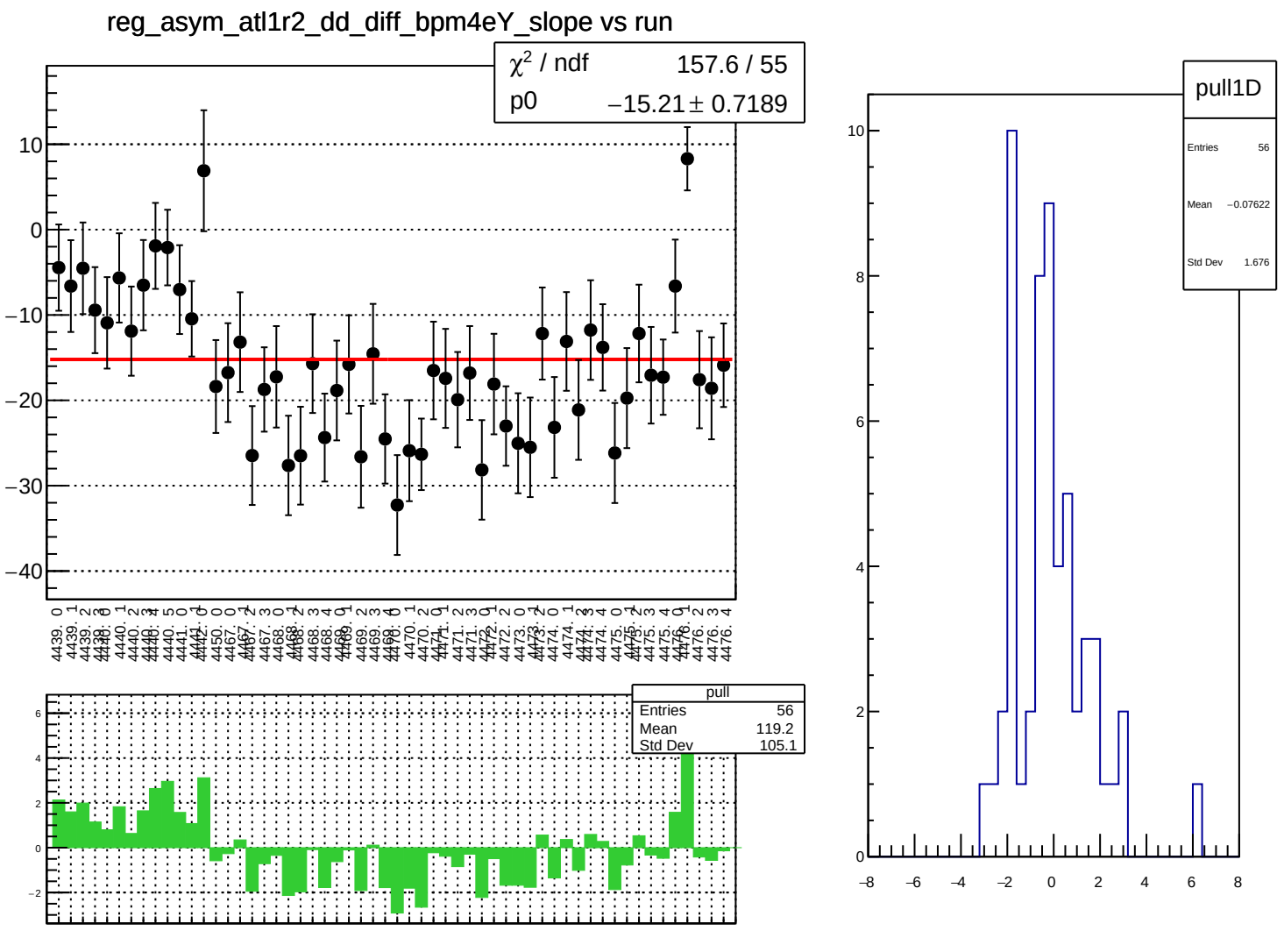

pull1D
Entries 56
Mean 0.02506
Std Dev 0.9028

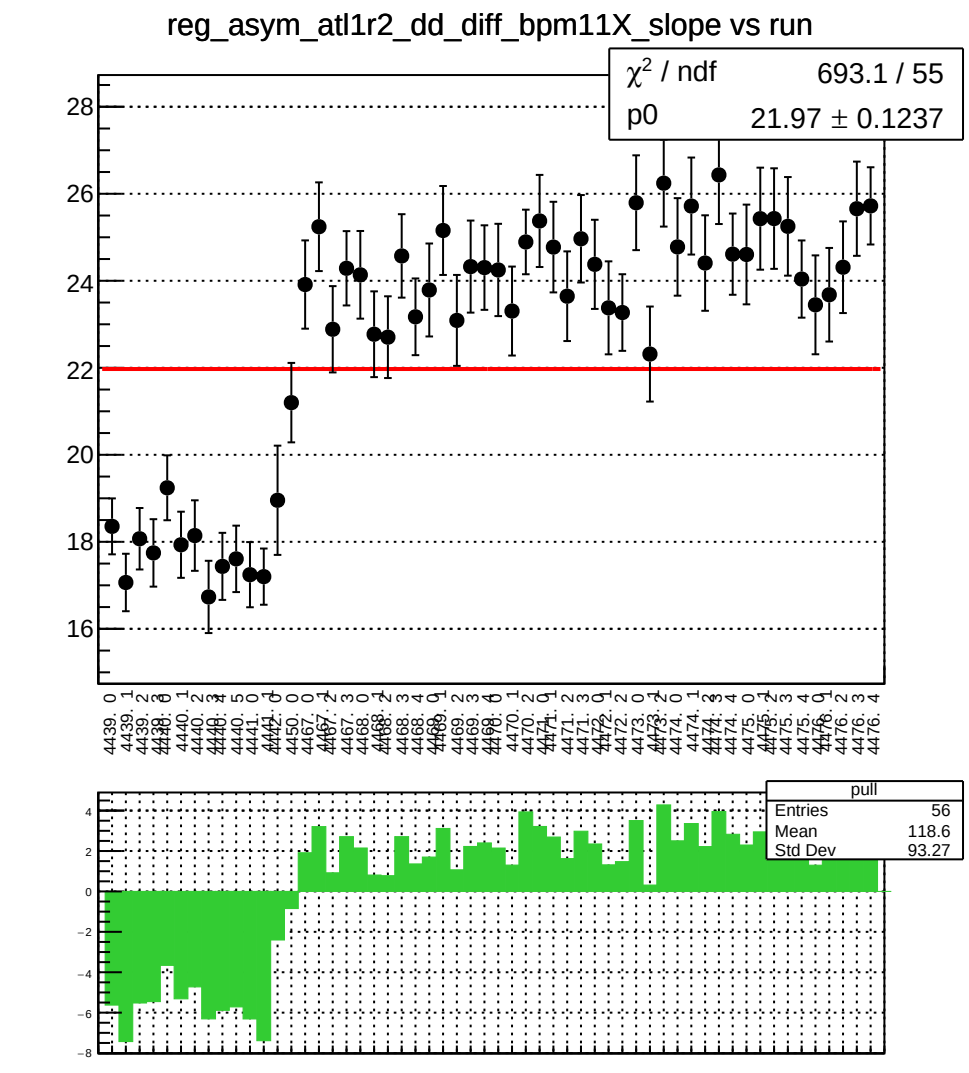

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 128.9 / 55
p0 3.777 ± 0.5449
pull
Entries 56
Mean 40.78
Std Dev 24.03

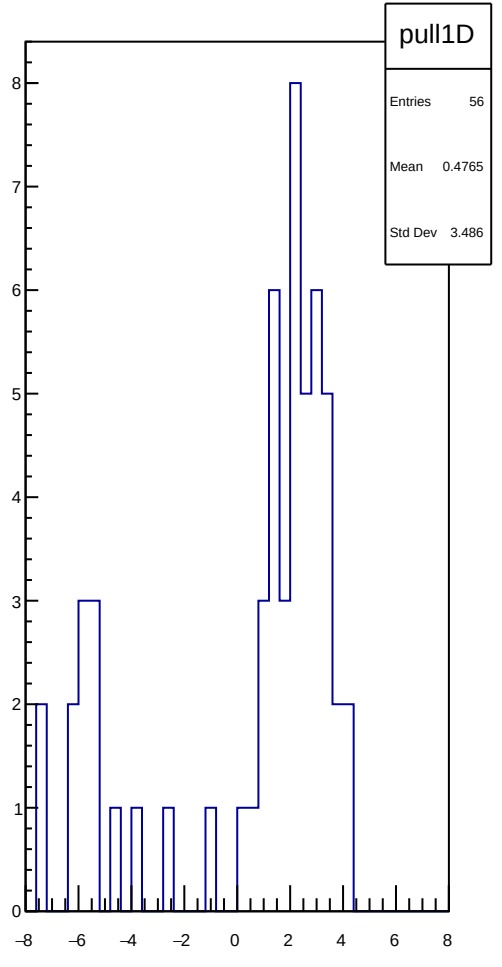

pull1D
Entries 56
Mean 0.2836
Std Dev 1.491

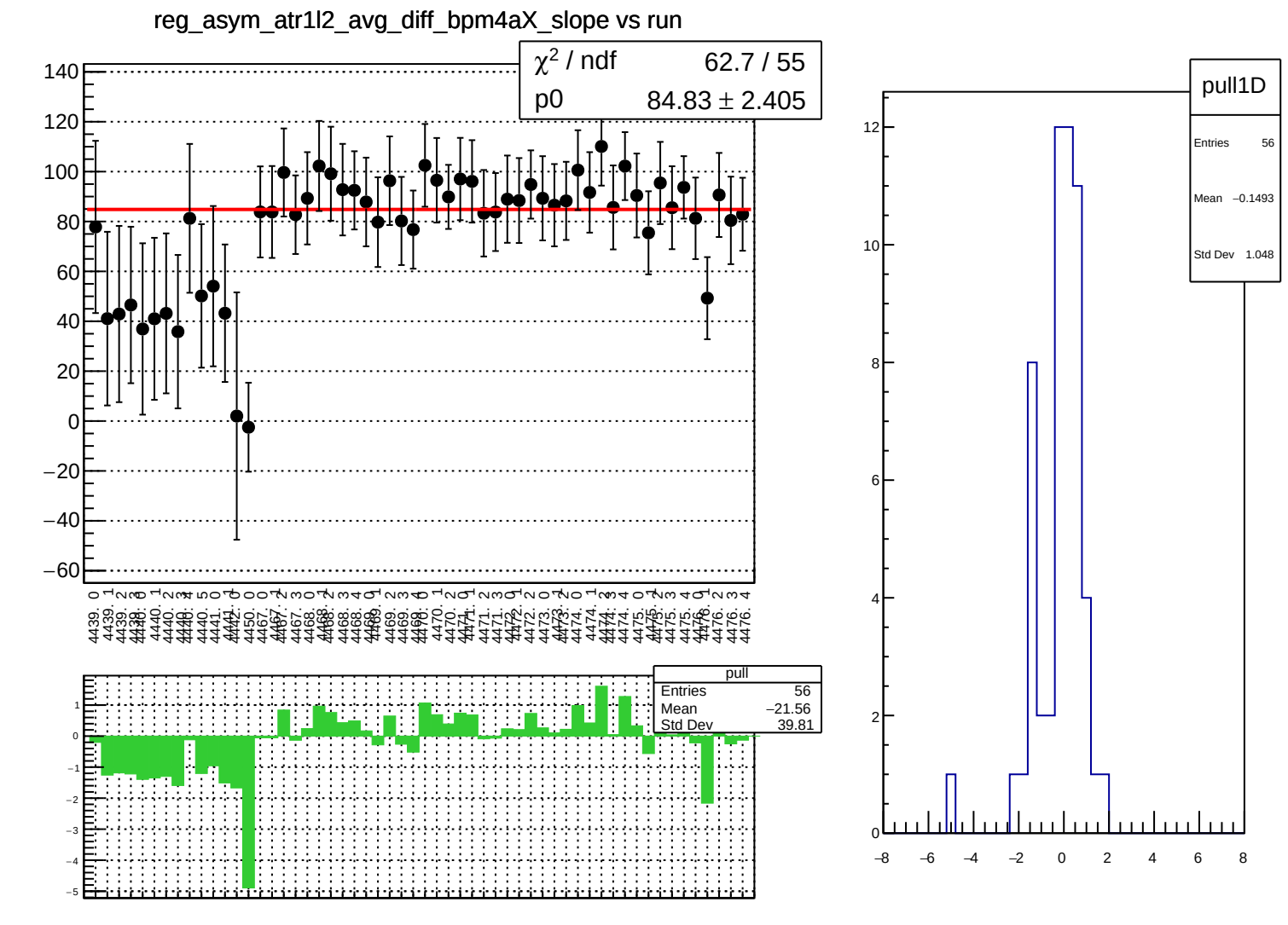

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 225.9 / 55
p0 21.6 ± 0.0945
pull
Entries 56
Mean 224.1
Std Dev 196.9

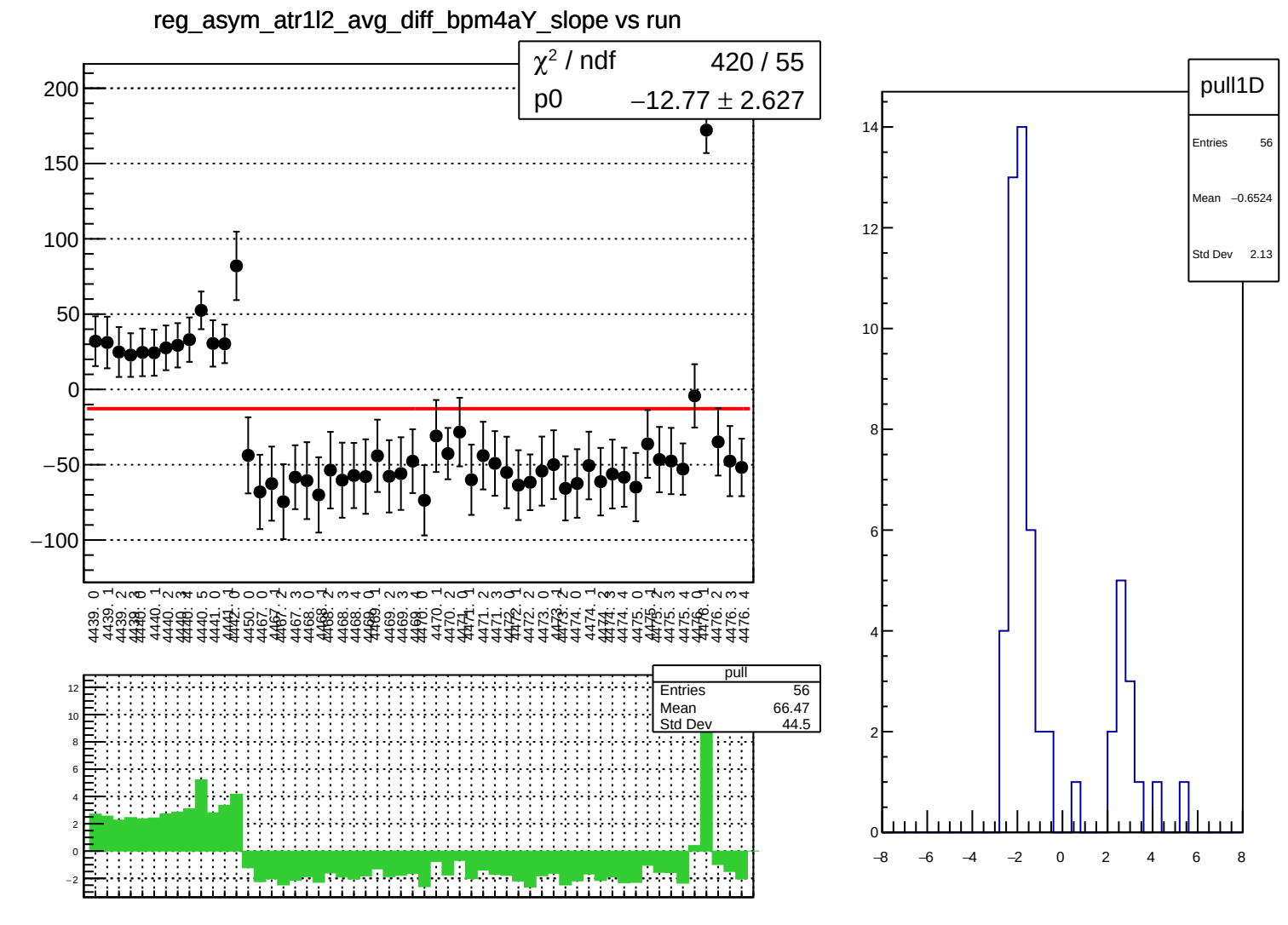

pull1D
Entries 56
Mean 0.1319
Std Dev 2.004

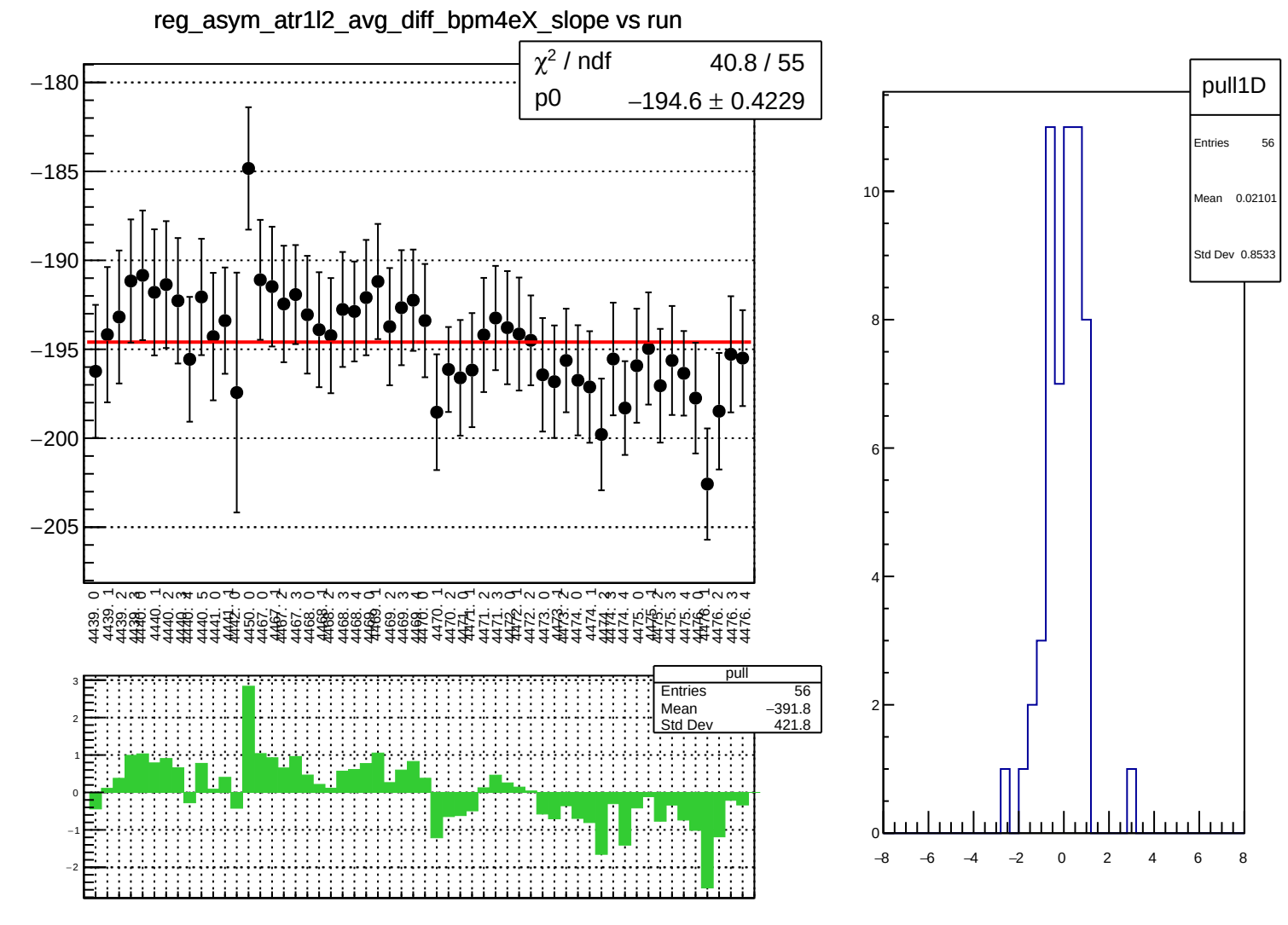

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 157.6 / 55
p0 −15.21 ± 0.7189
pull
Entries 56
Mean 119.2
Std Dev 105.1
pull1D
Entries 56
Mean −0.07622
Std Dev 1.676

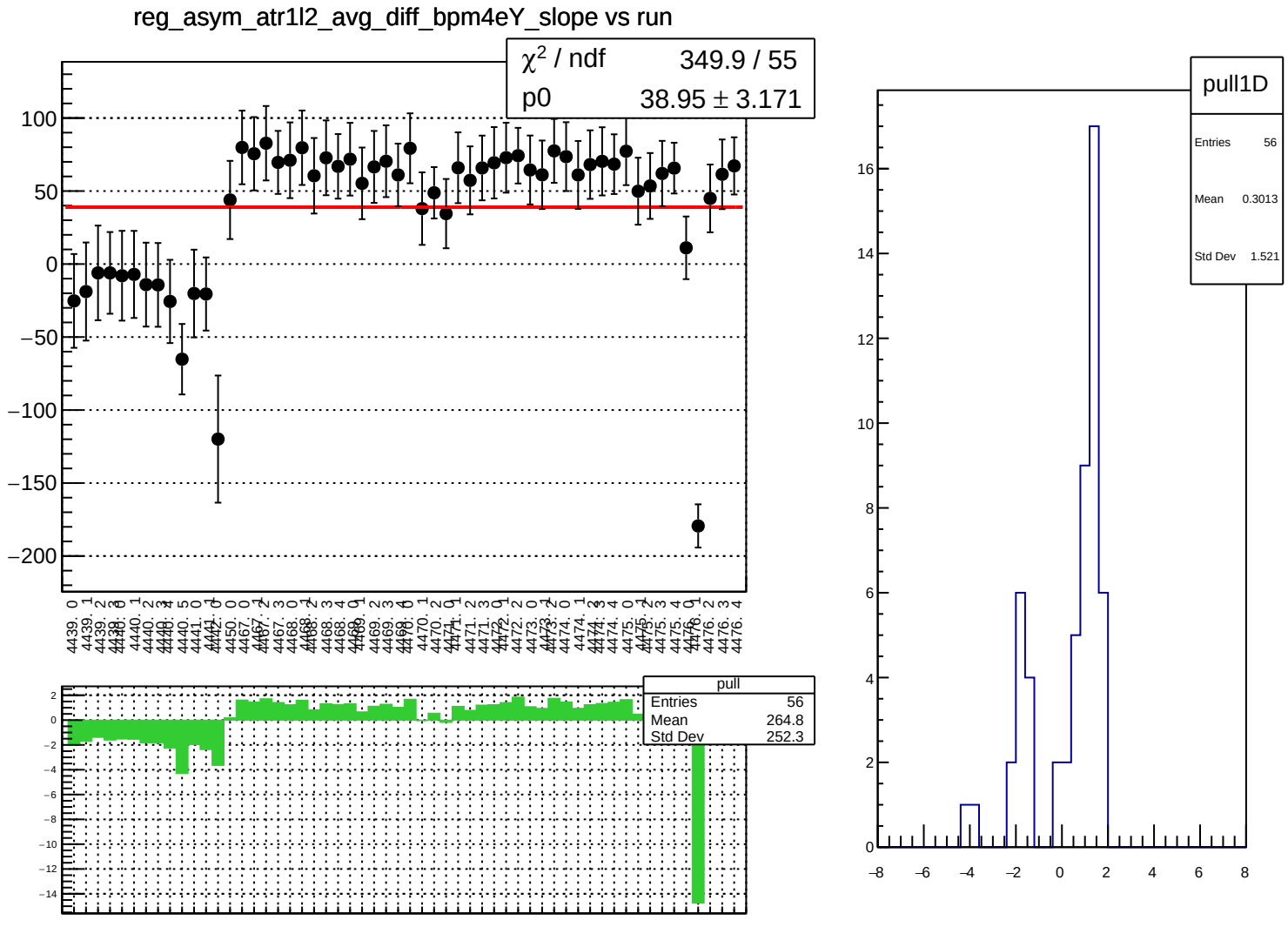

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 693.1 / 55
p0 21.97 ± 0.1237
pull
Entries 56
Mean 118.6
Std Dev 93.27

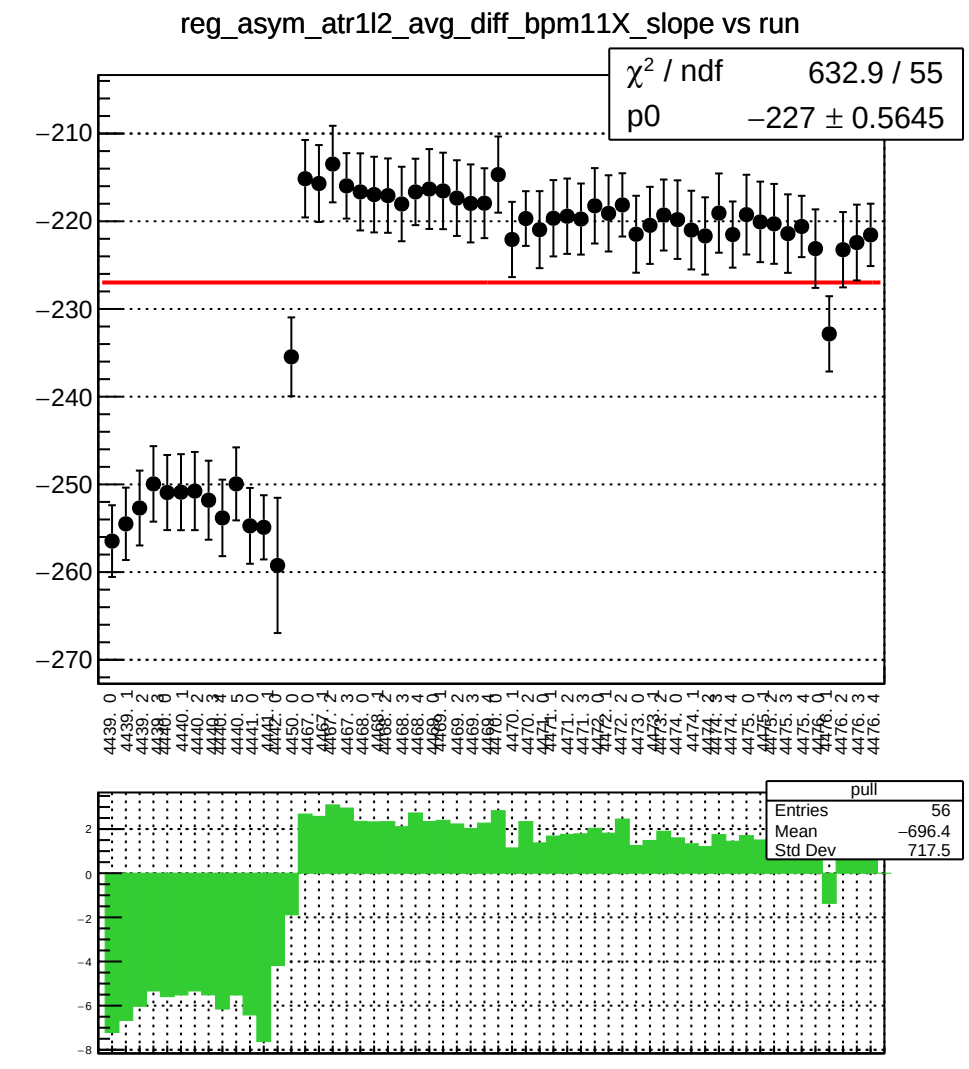

pull1D
Entries 56
Mean 0.4765
Std Dev 3.486

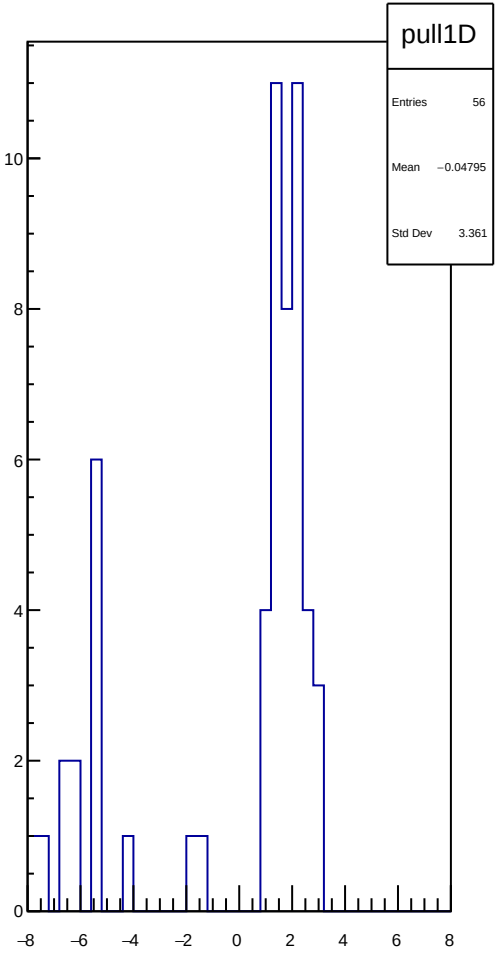

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 62.7 / 55
p0 84.83 ± 2.405
pull
Entries 56
Mean −21.56
Std Dev 39.81
pull1D
Entries 56
Mean −0.1493
Std Dev 1.048

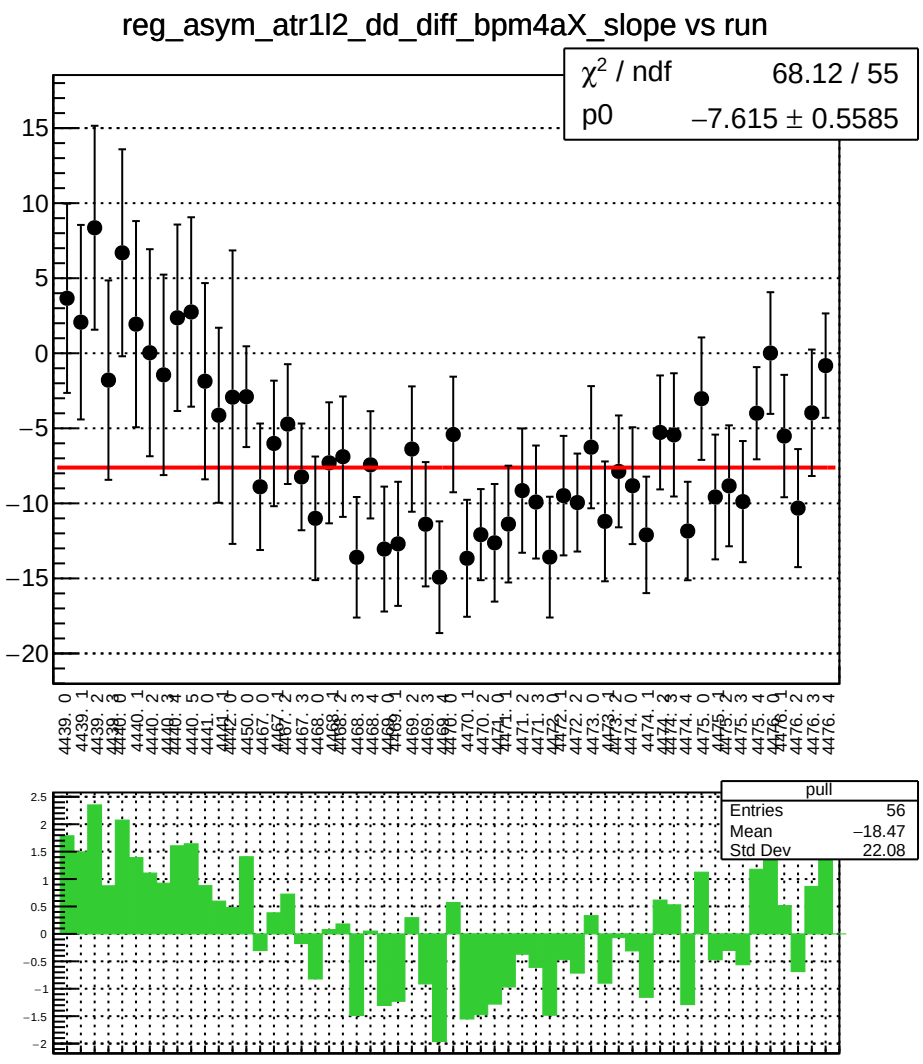

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 420 / 55
p0 −12.77 ± 2.627
pull
Entries 56
Mean 66.47
Std Dev 44.5
pull1D
Entries 56
Mean −0.6524
Std Dev 2.13

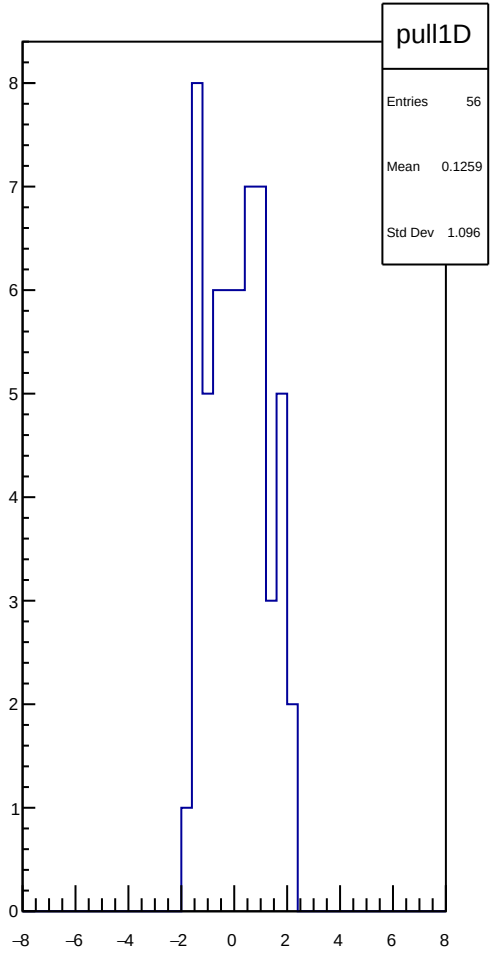

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.8 / 55
p0 −194.6 ± 0.4229
−180
−185
−190
−195
−200
−205
pull
Entries 56
Mean −391.8
Std Dev 421.8
pull1D
Entries 56
Mean 0.02101
Std Dev 0.8533

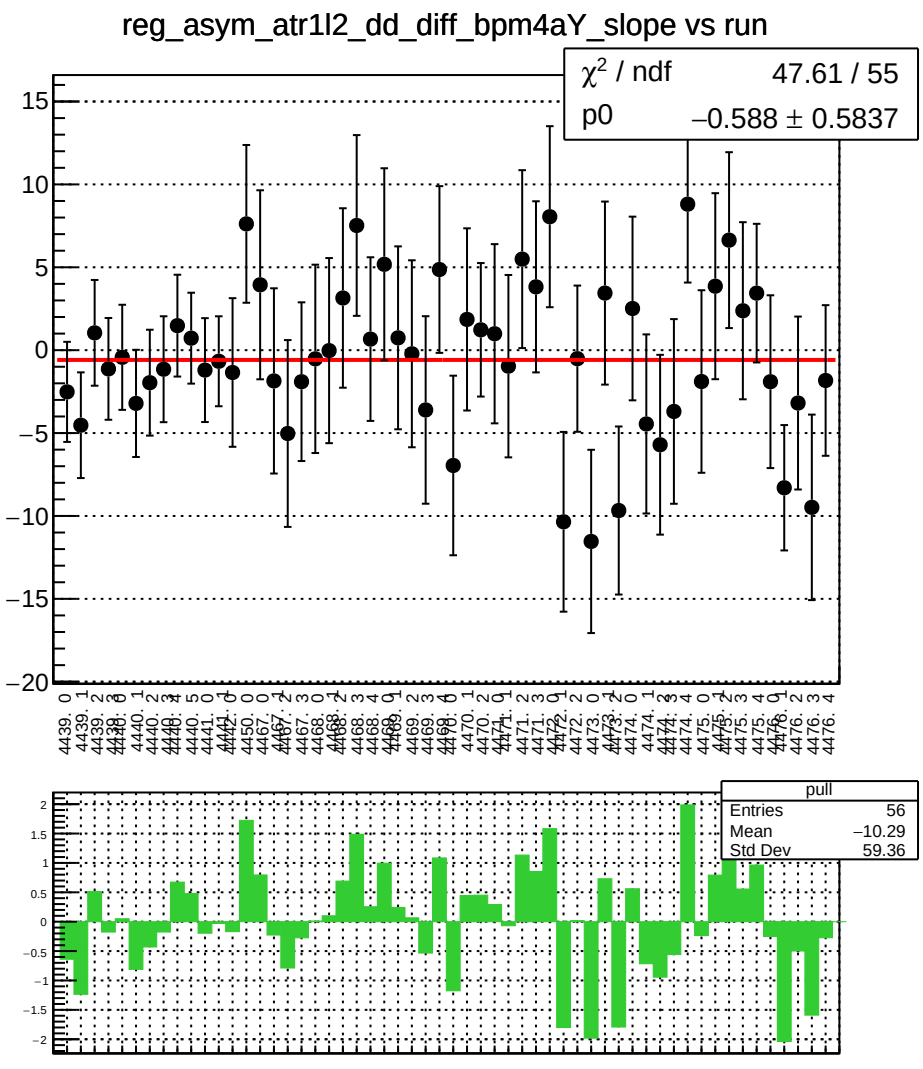

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 349.9 / 55
p0 38.95 ± 3.171
pull
Entries 56
Mean 264.8
Std Dev 252.3
pull1D
Entries 56
Mean 0.3013
Std Dev 1.521

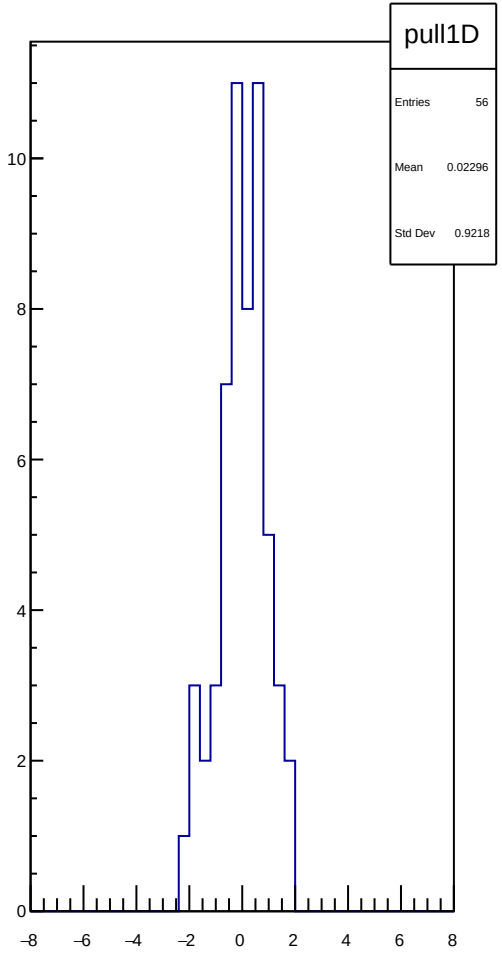

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 632.9 / 55
p0 −227 ± 0.5645
pull
Entries 56
Mean −696.4
Std Dev 717.5

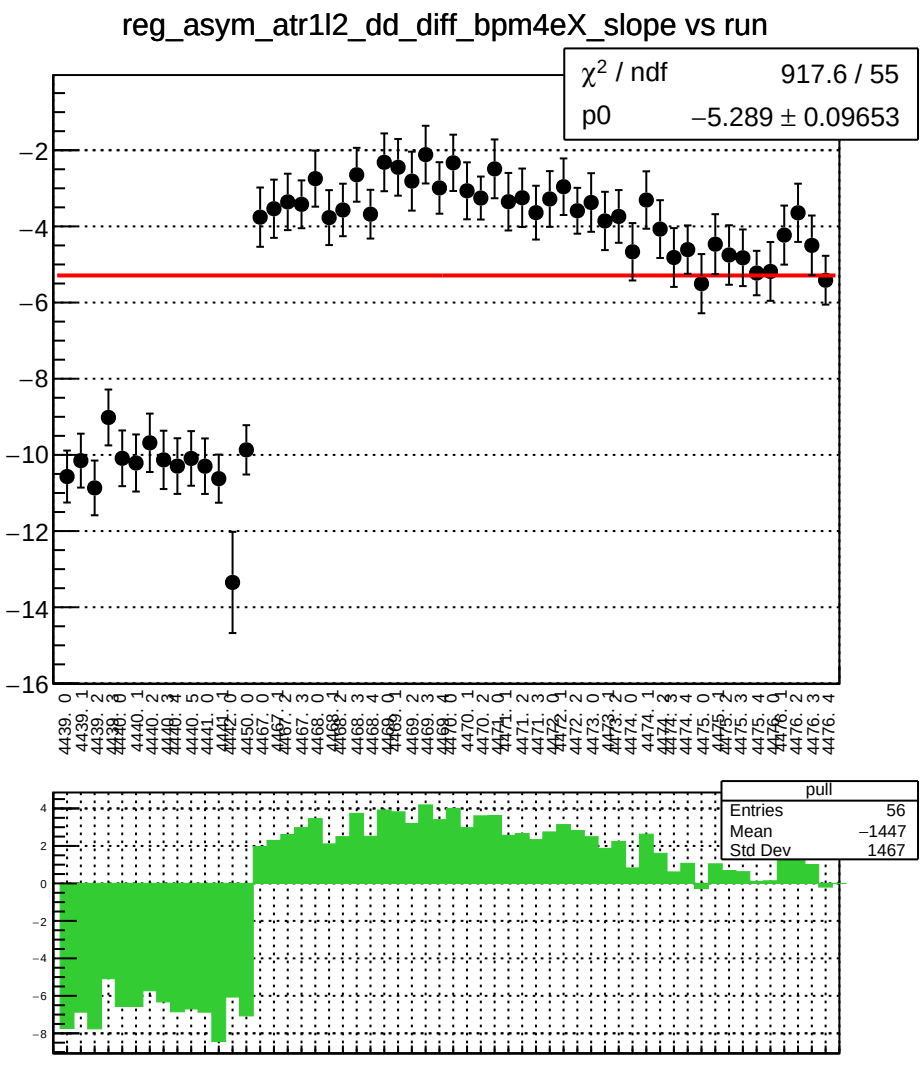

pull1D
Entries 56
Mean −0.04795
Std Dev 3.361

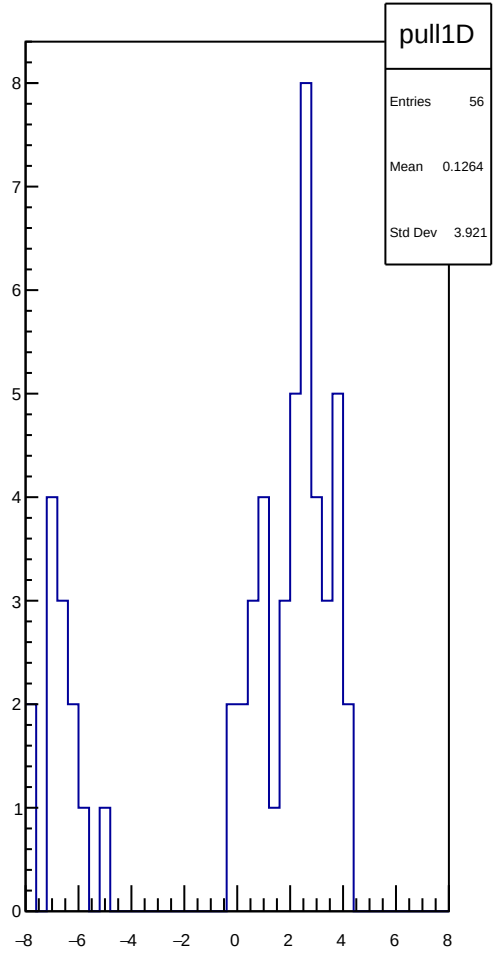

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 68.12 / 55
p0 −7.615 ± 0.5585
pull
Entries 56
Mean −18.47
Std Dev 22.08

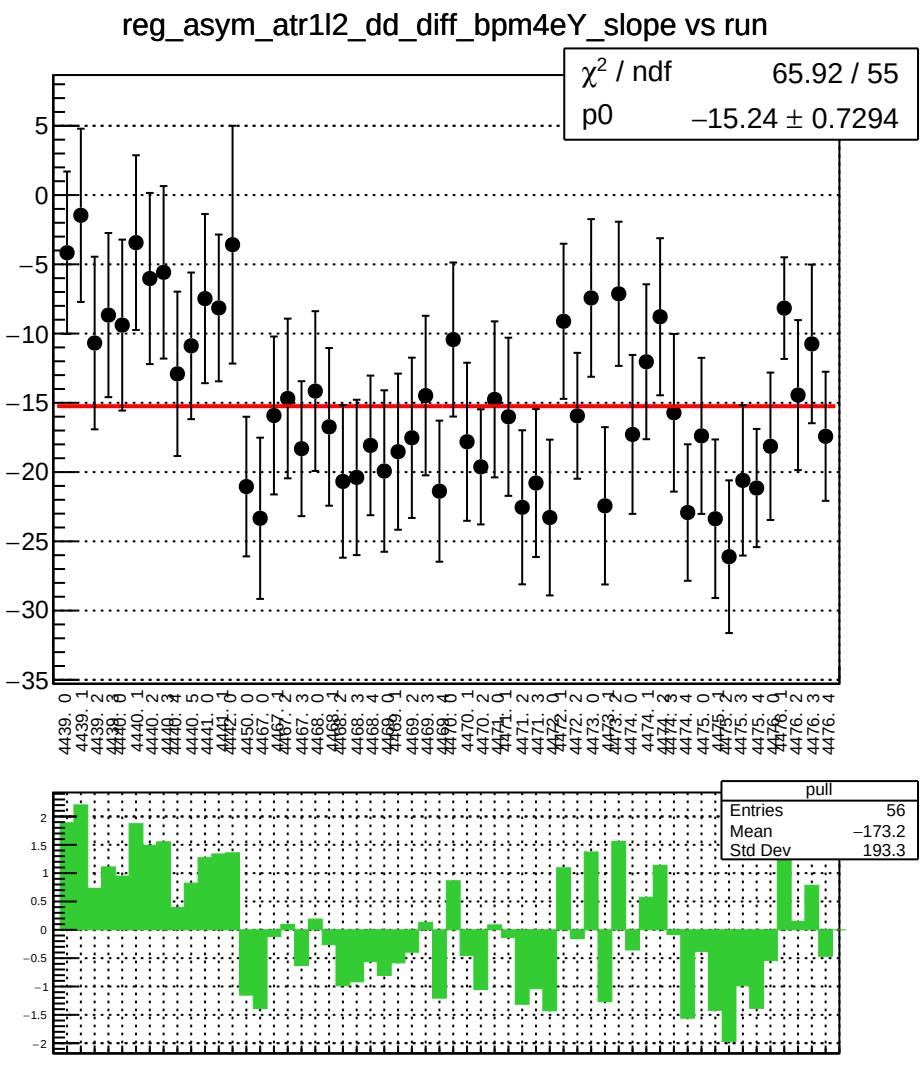

pull1D
Entries 56
Mean 0.1259
Std Dev 1.096

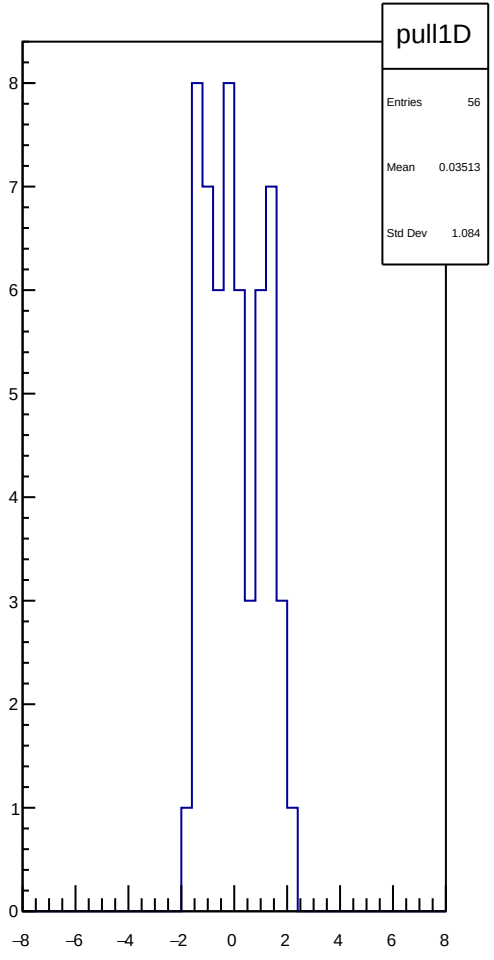

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.61 / 55
p0 −0.588 ± 0.5837
pull
Entries 56
Mean −10.29
Std Dev 59.36

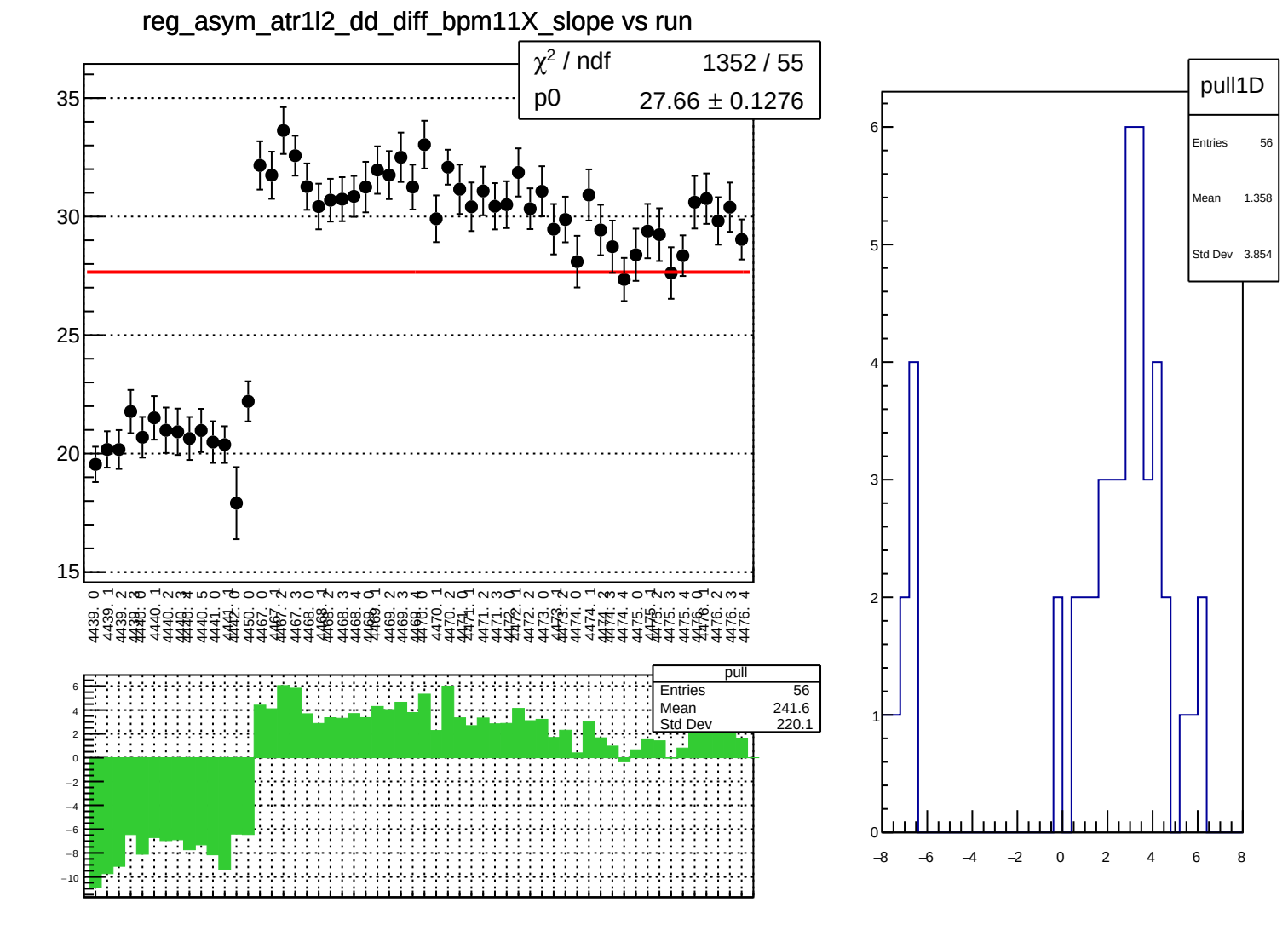

pull1D
Entries 56
Mean 0.02296
Std Dev 0.9218

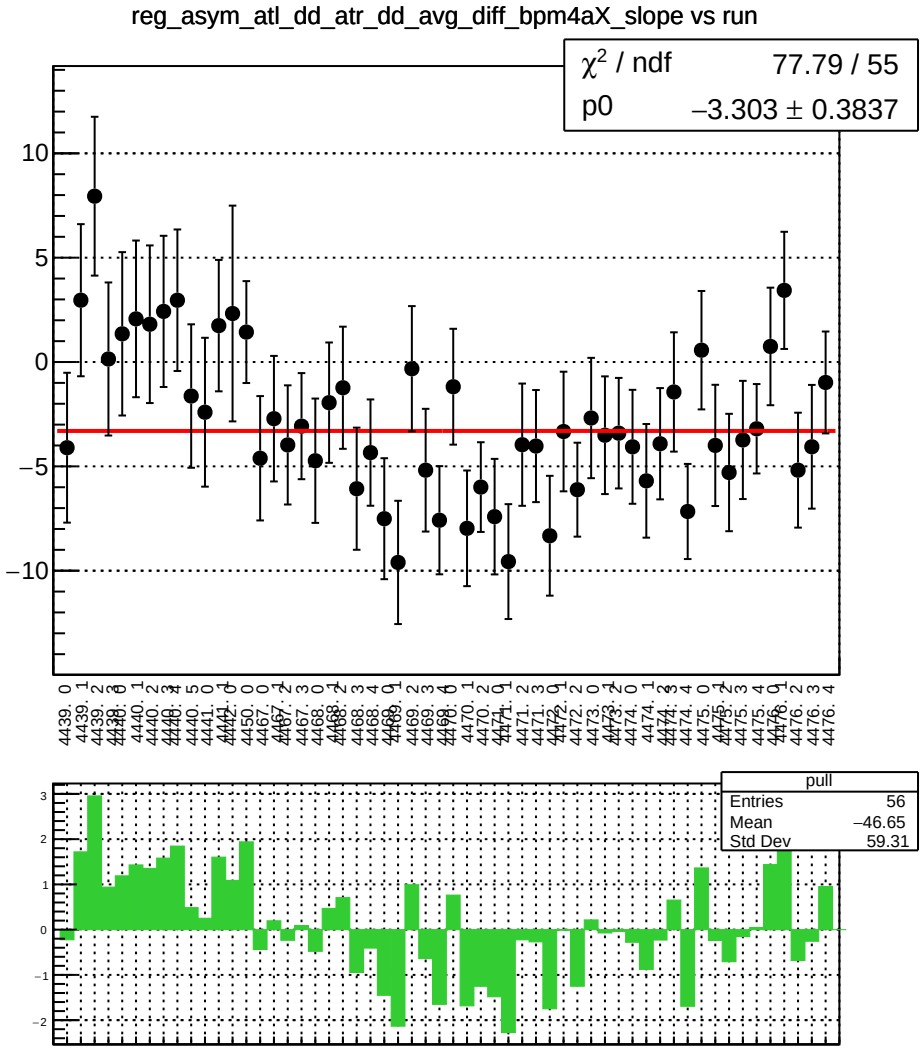

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 917.6 / 55
p0 −5.289 ± 0.09653
pull
Entries 56
Mean −1447
Std Dev 1467

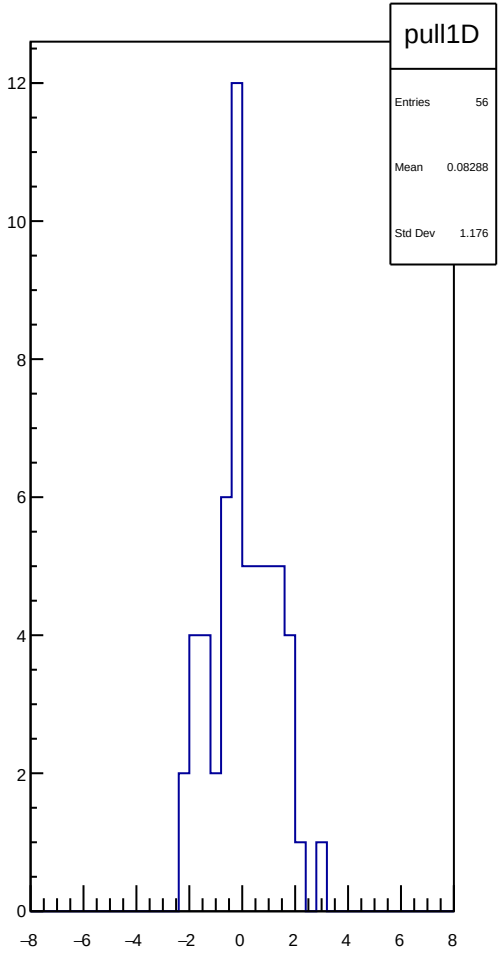

pull1D
Entries 56
Mean 0.1264
Std Dev 3.921

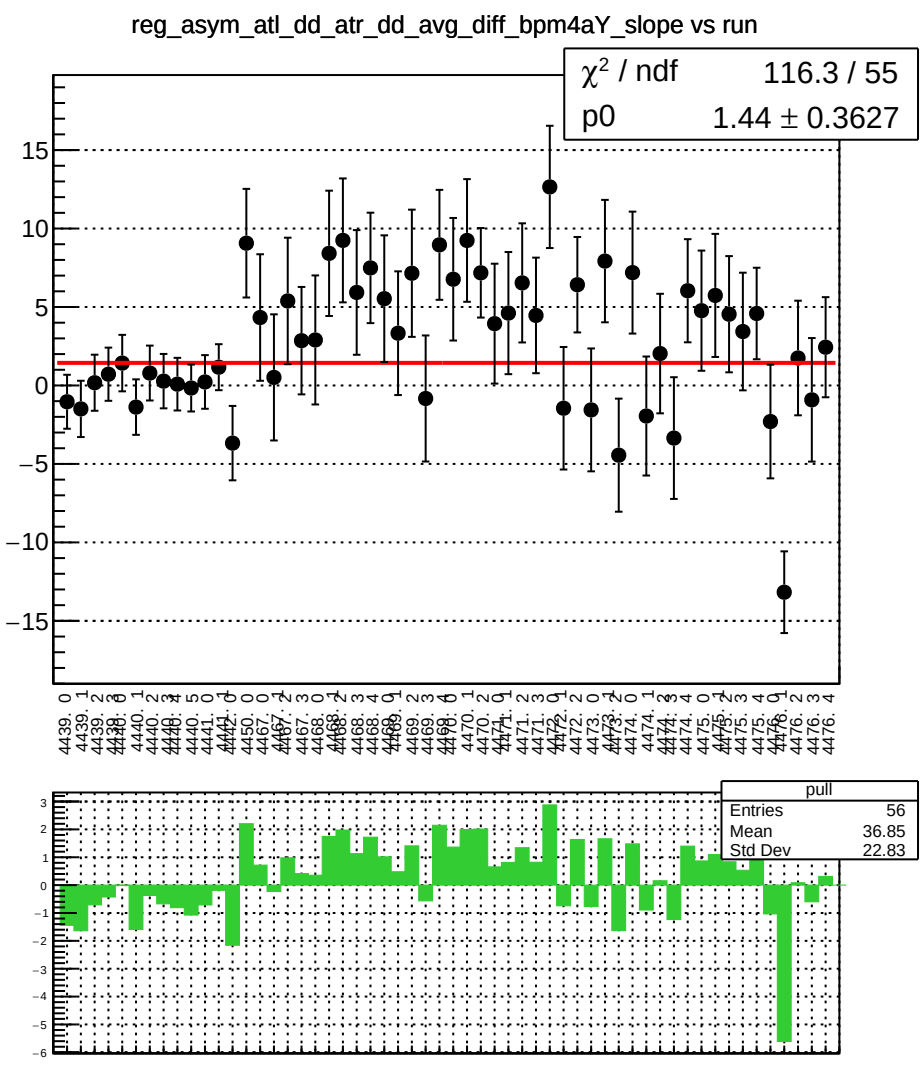

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.92 / 55
p0 −15.24 ± 0.7294
pull
Entries 56
Mean −173.2
Std Dev 193.3

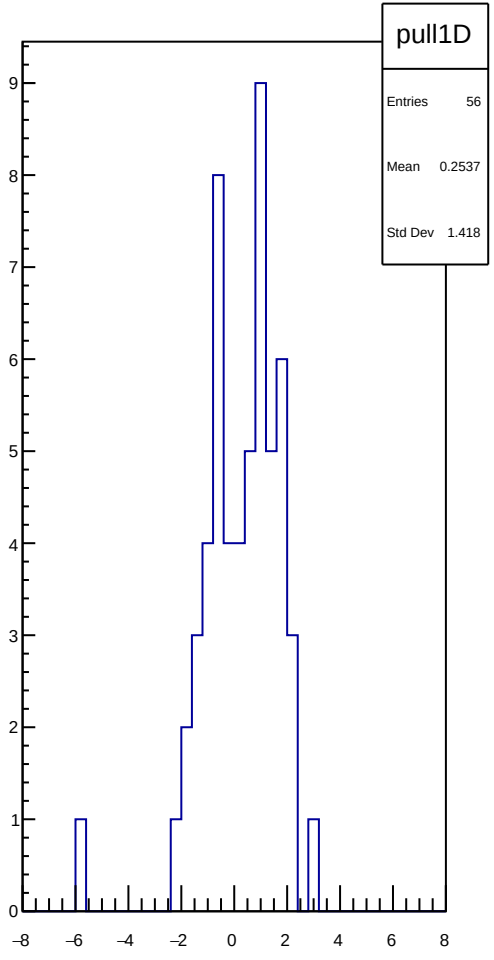

pull1D
Entries 56
Mean 0.03513
Std Dev 1.084

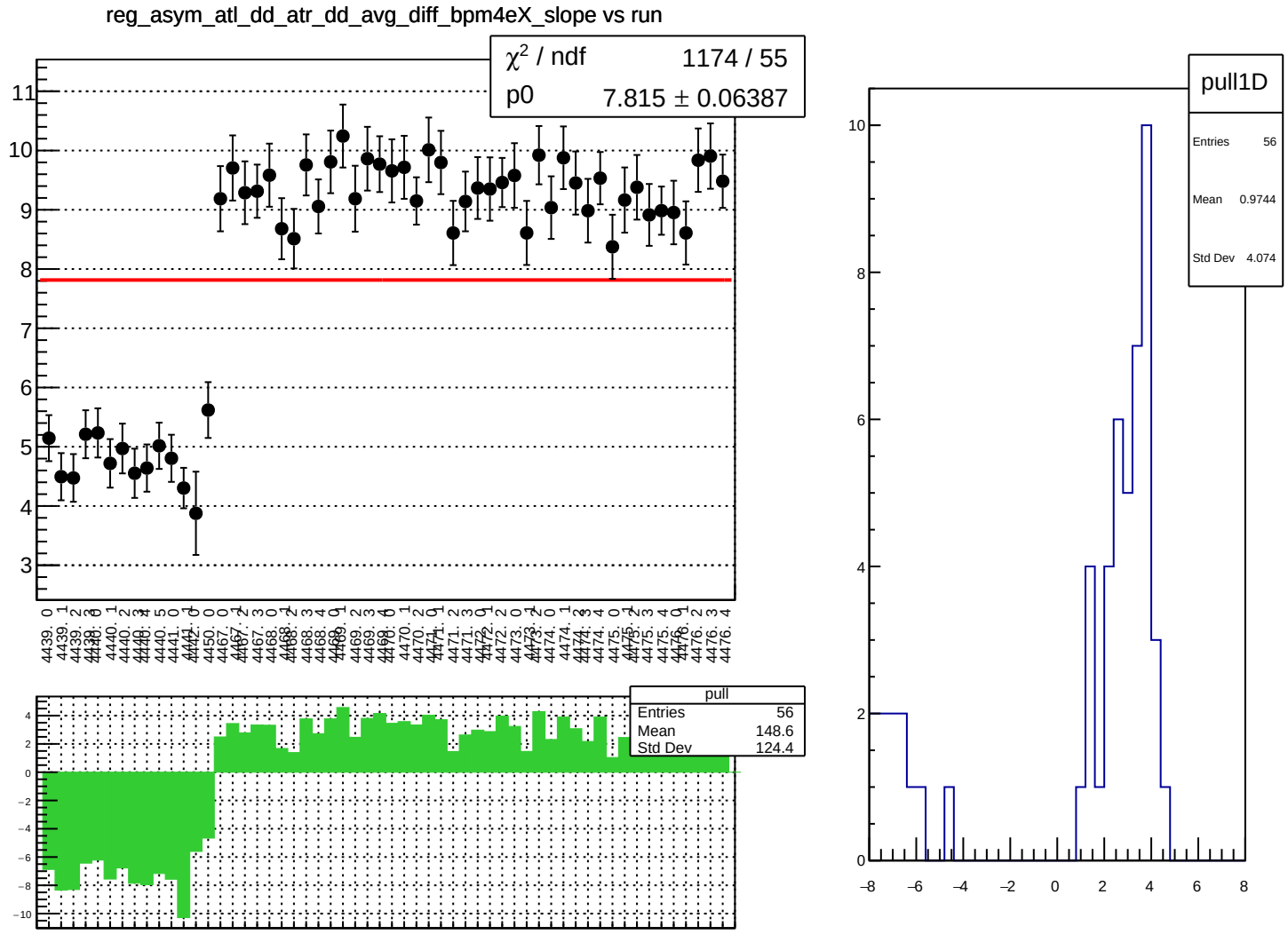

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 1352 / 55
p0 27.66 ± 0.1276
pull
Entries 56
Mean 241.6
Std Dev 220.1
pull1D
Entries 56
Mean 1.358
Std Dev 3.854

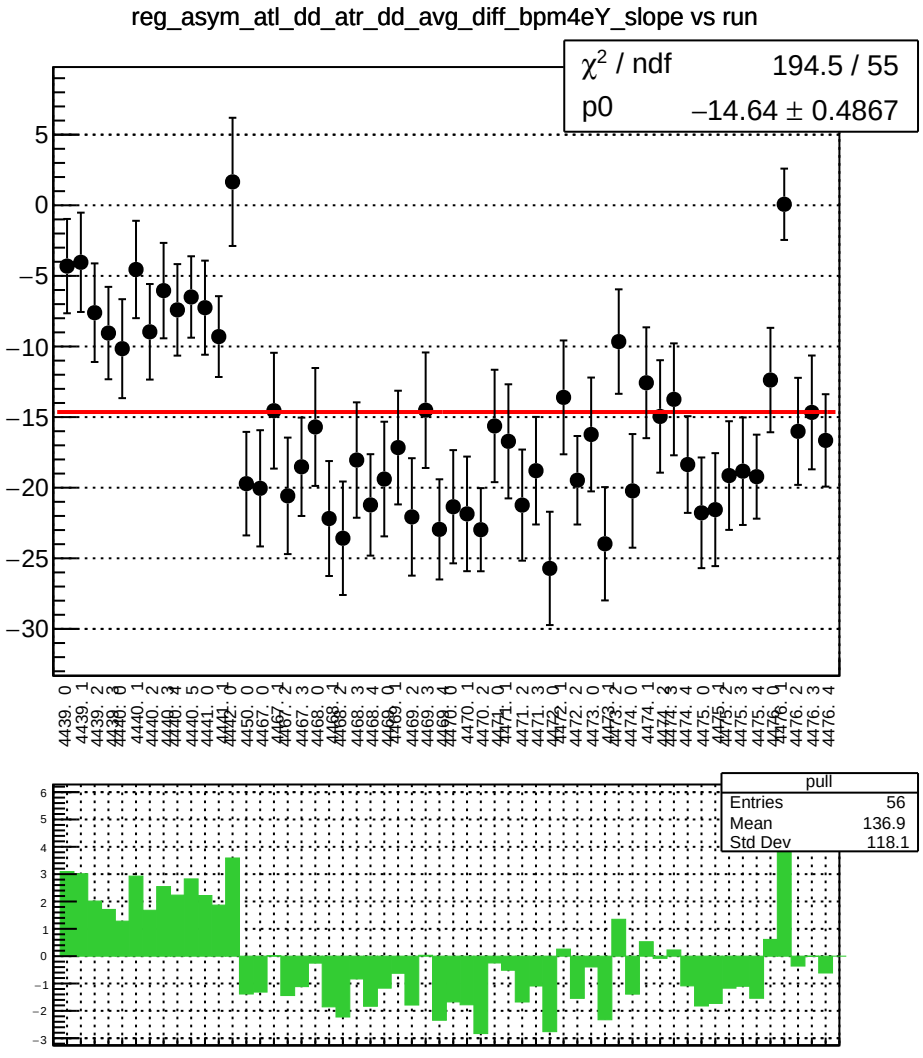

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 77.79 / 55
p0 −3.303 ± 0.3837
pull
Entries 56
Mean −46.65
Std Dev 59.31

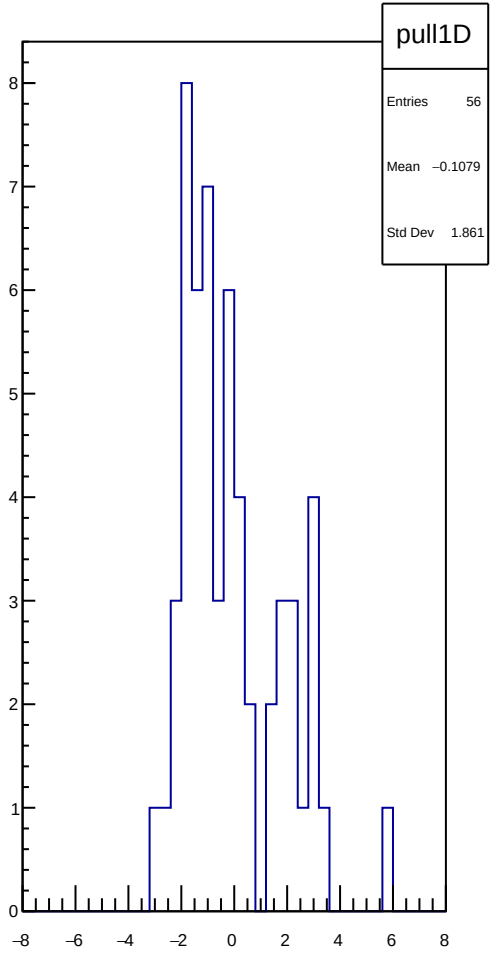

pull1D
Entries 56
Mean 0.08288
Std Dev 1.176

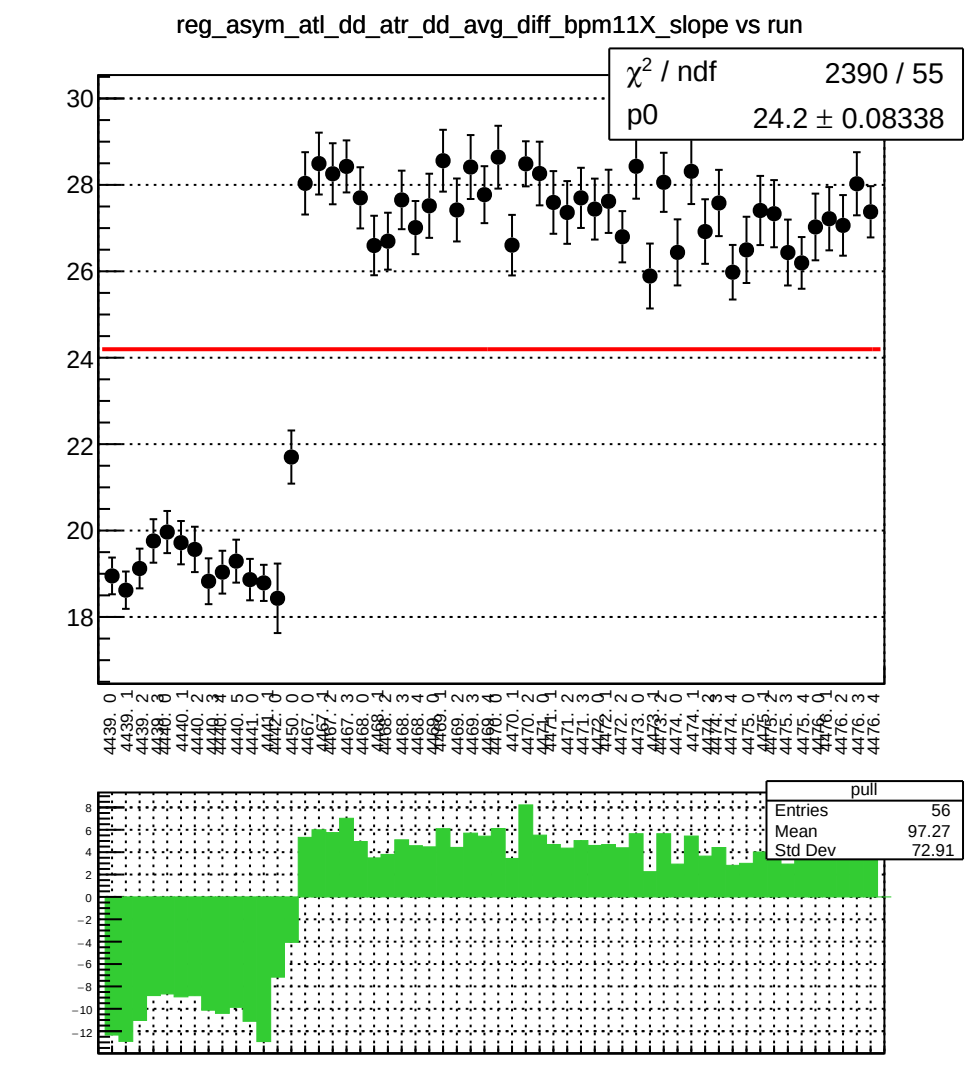

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 116.3 / 55
p0 1.44 ± 0.3627
pull
Entries 56
Mean 36.85
Std Dev 22.83

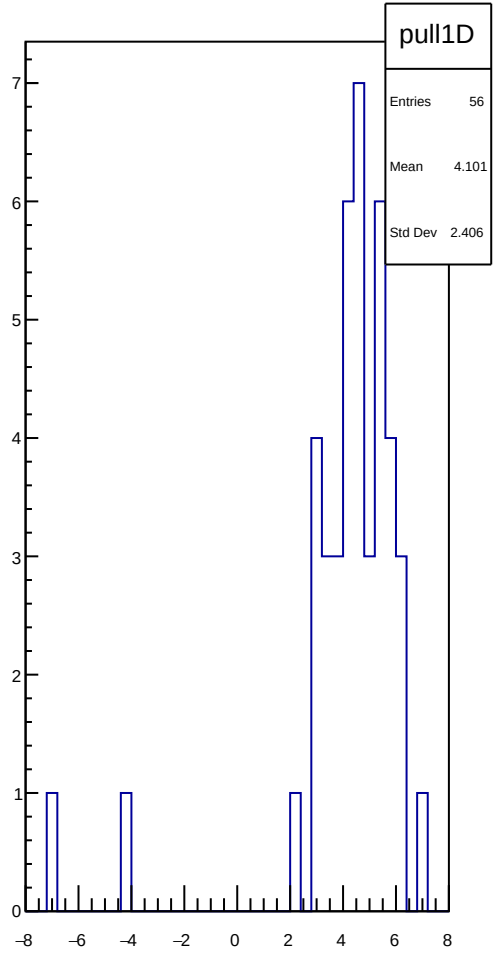

pull1D
Entries 56
Mean 0.2537
Std Dev 1.418

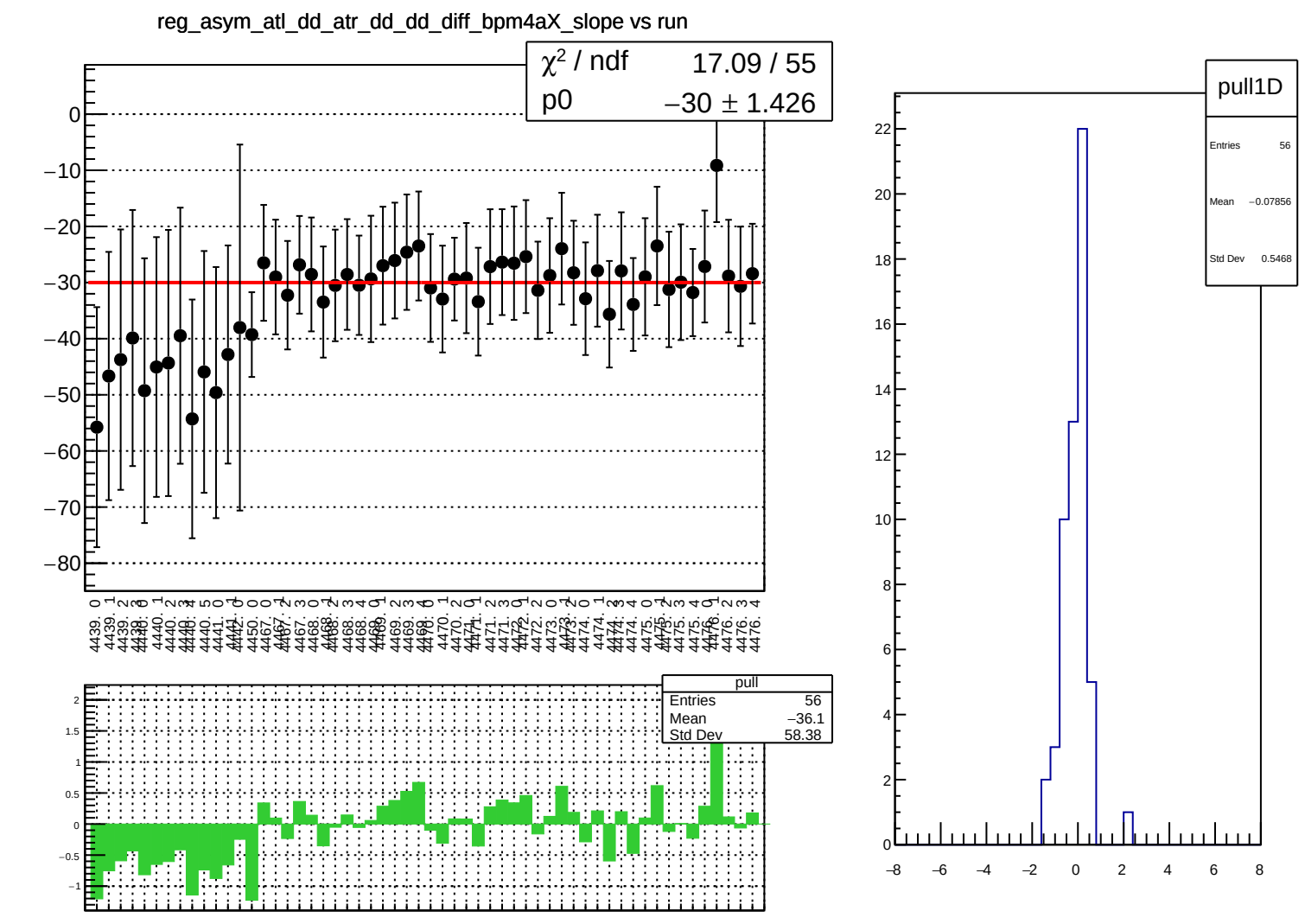

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 1174 / 55
p0 7.815 ± 0.06387
pull
Entries 56
Mean 148.6
Std Dev 124.4
pull1D
Entries 56
Mean 0.9744
Std Dev 4.074

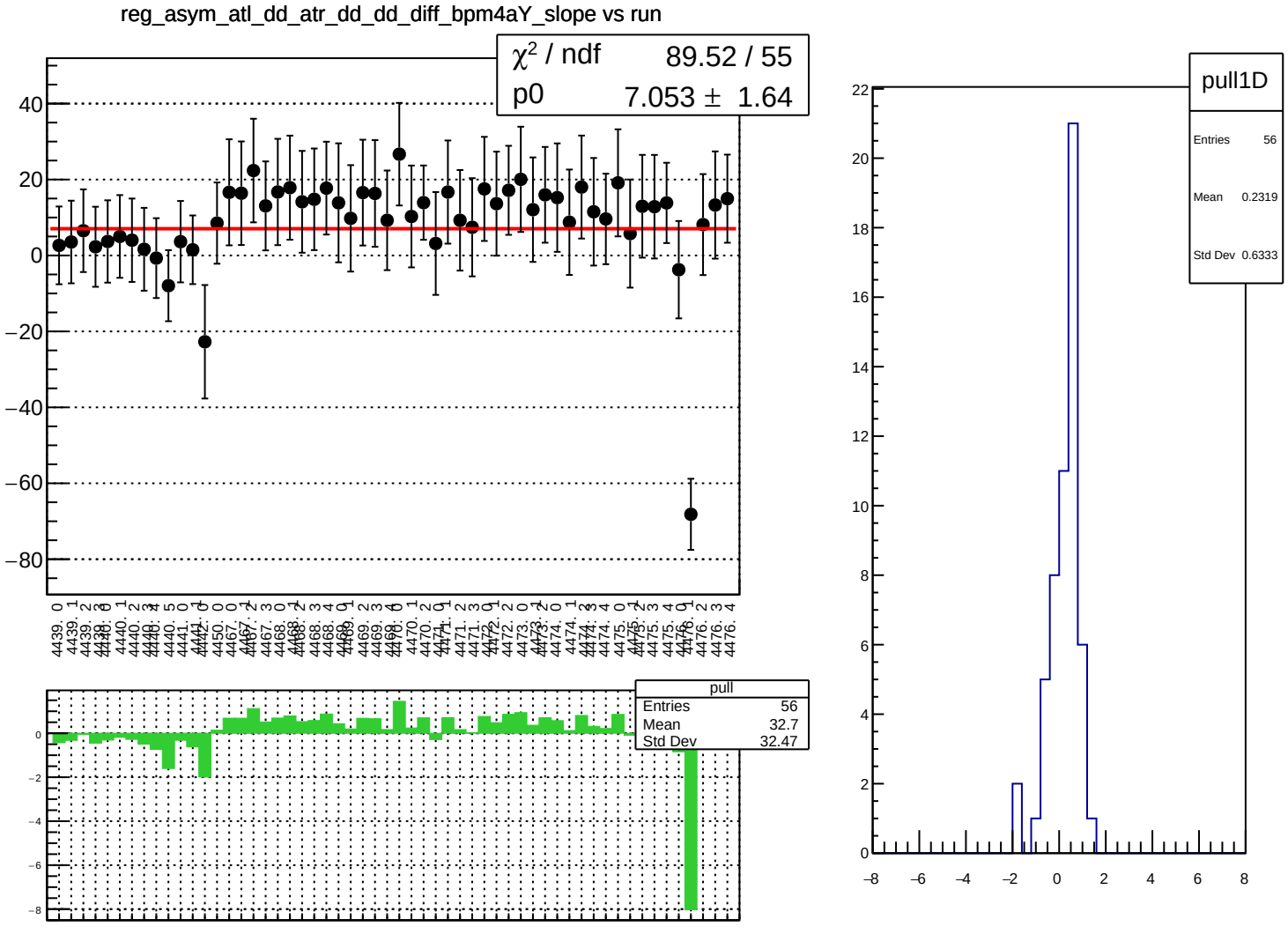

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 194.5 / 55
p0 −14.64 ± 0.4867
pull
Entries 56
Mean 136.9
Std Dev 118.1

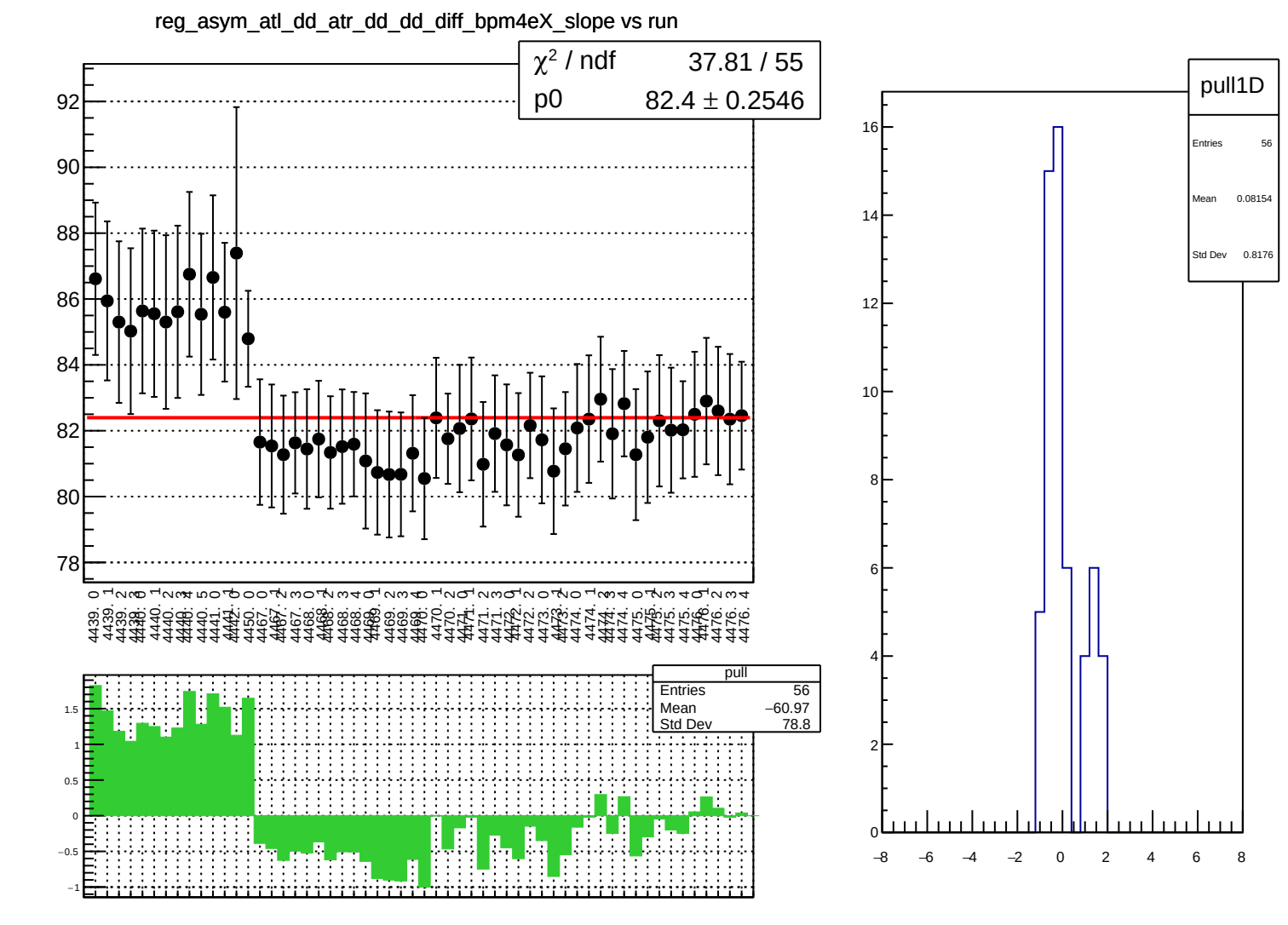

pull1D
Entries 56
Mean −0.1079
Std Dev 1.861

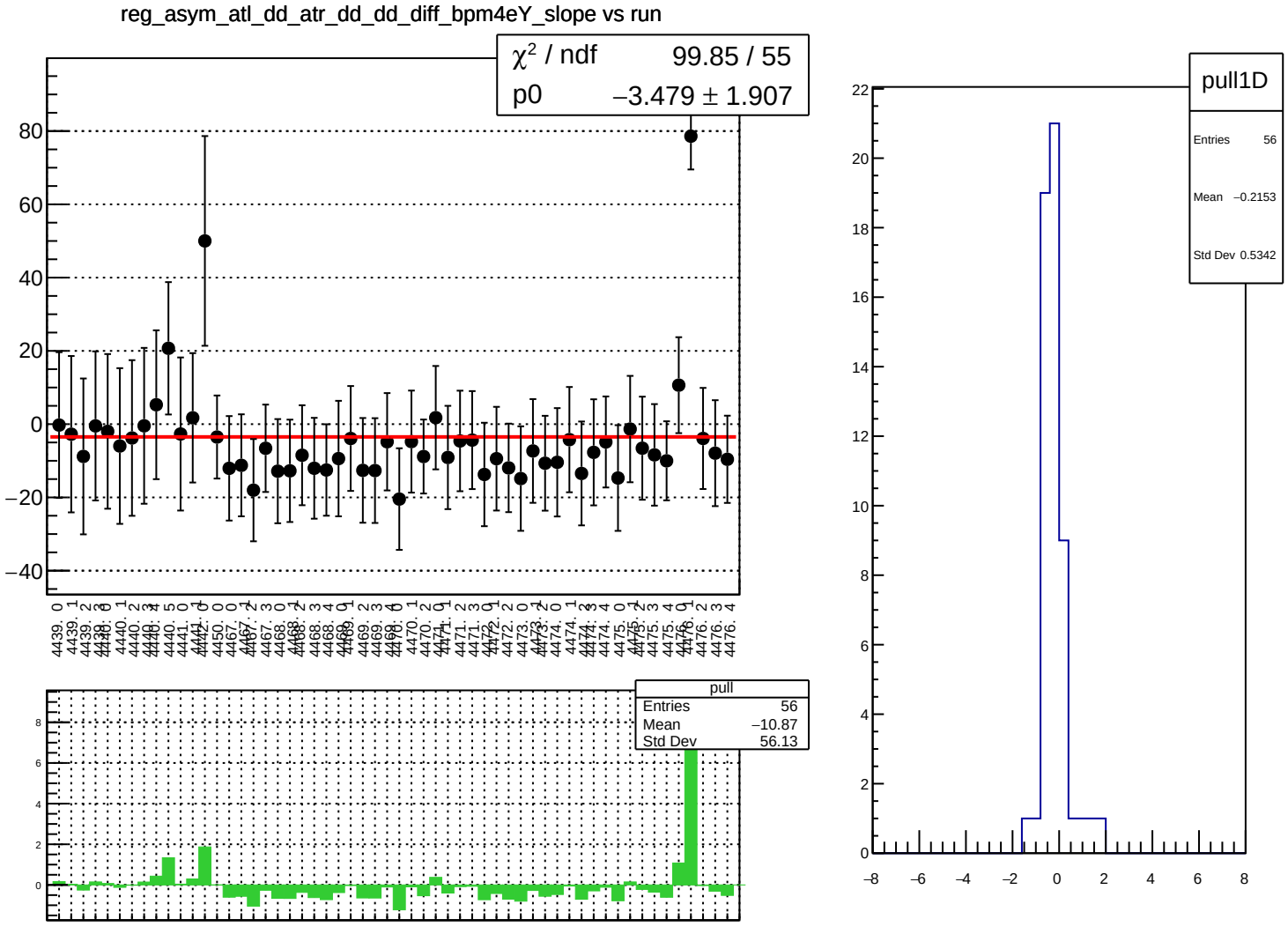

reg_asym_atl_dd_atr_dd_avg_diff_bpm11X_slope vs run
χ² / ndf 2390 / 55
p0 24.2 ± 0.08338
pull
Entries 56
Mean 97.27
Std Dev 72.91

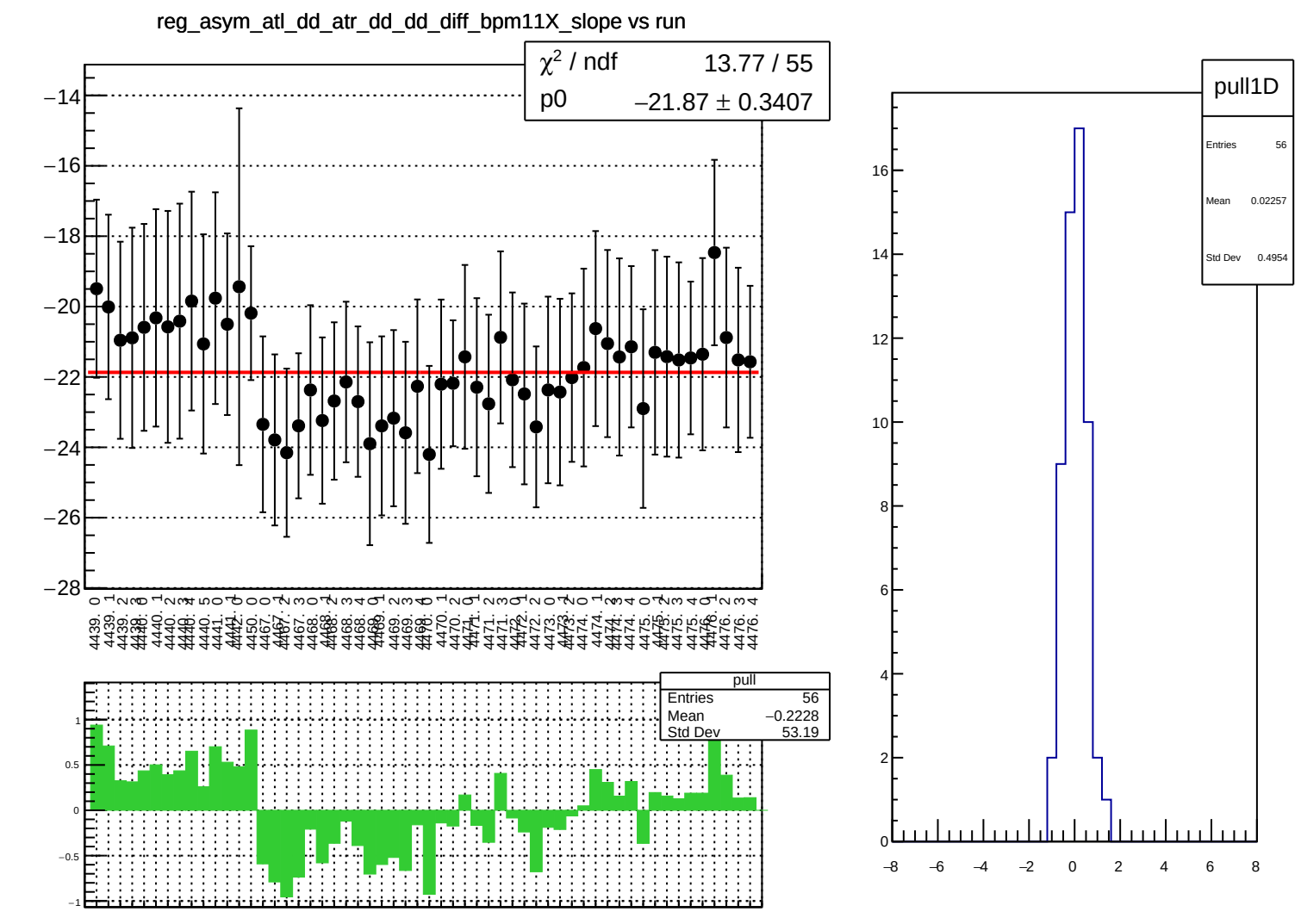

pull1D
Entries 56
Mean 4.101
Std Dev 2.406

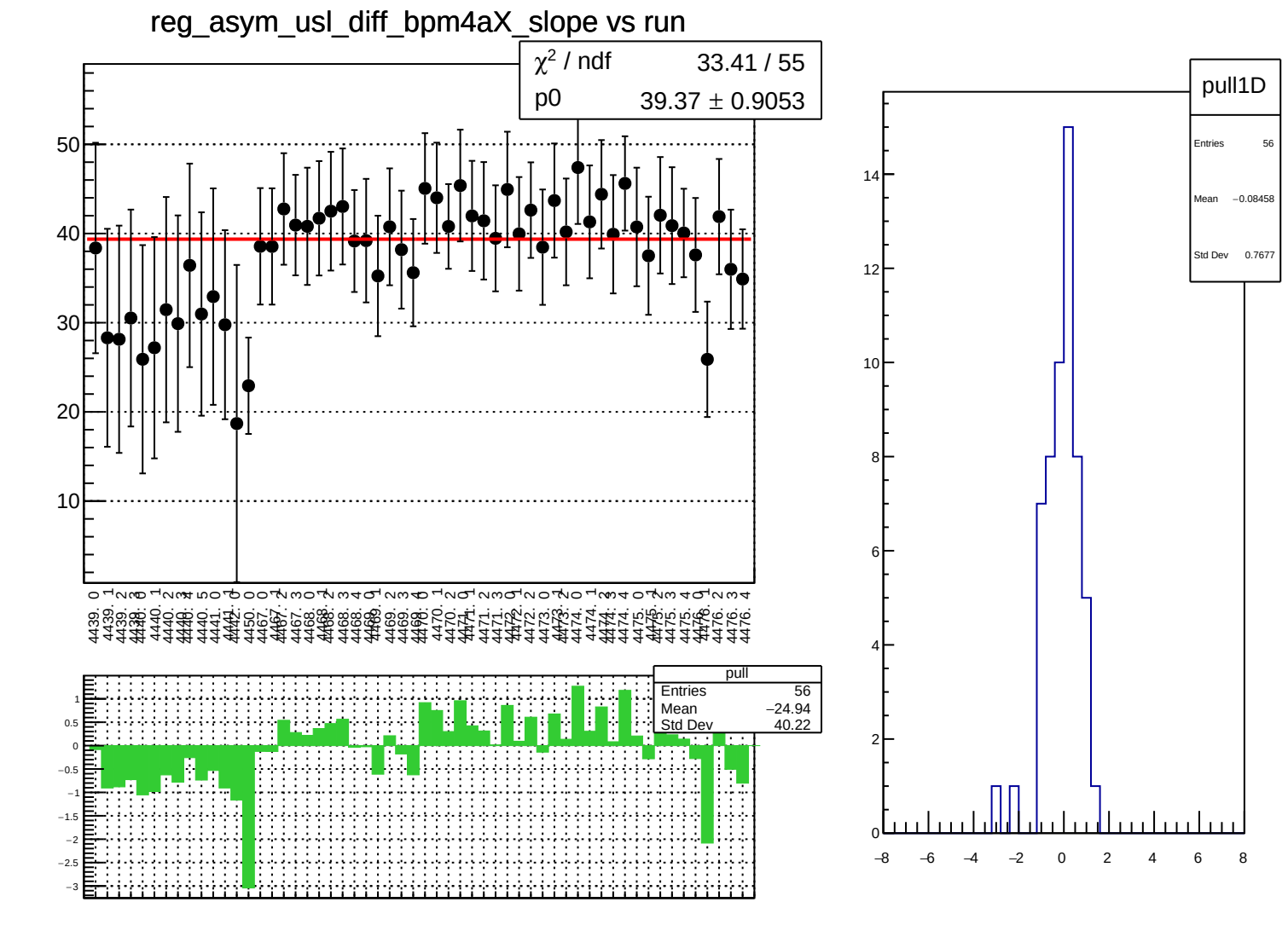

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 17.09 / 55
p0 −30 ± 1.426
pull
Entries 56
Mean −36.1
Std Dev 58.38
pull1D
Entries 56
Mean −0.07856
Std Dev 0.5468

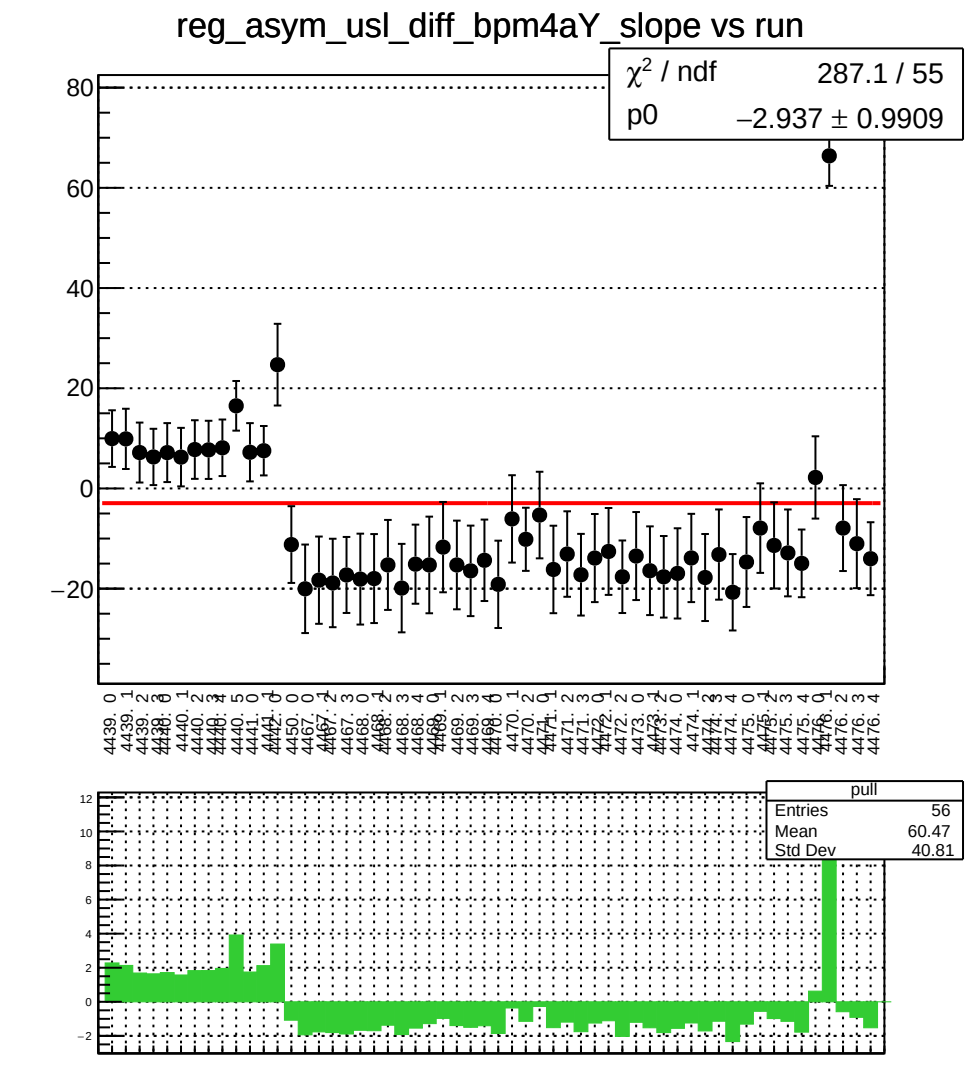

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 89.52 / 55
p0 7.053 ± 1.64
pull
Entries 56
Mean 32.7
Std Dev 32.47
pull1D
Entries 56
Mean 0.2319
Std Dev 0.6333

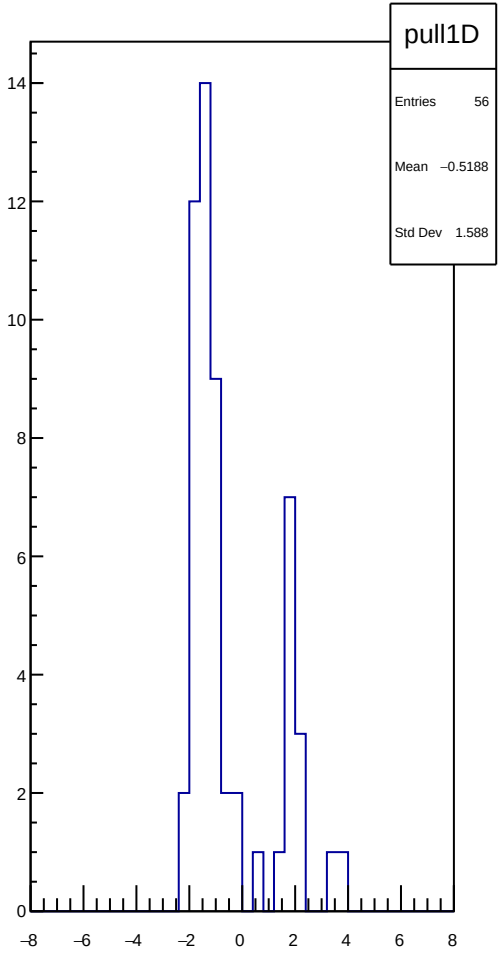

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.81 / 55
p0 82.4 ± 0.2546
pull
Entries 56
Mean −60.97
Std Dev 78.8
pull1D
Entries 56
Mean 0.08154
Std Dev 0.8176

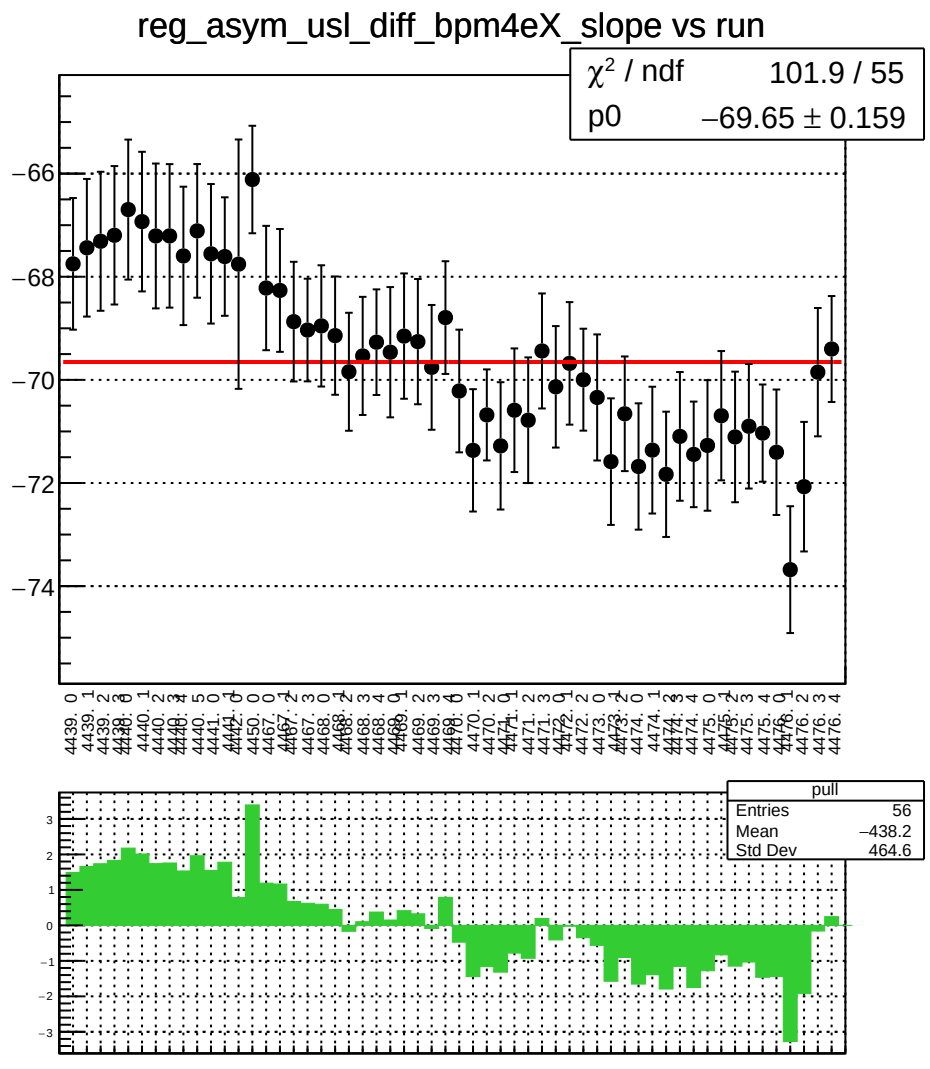

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 99.85 / 55
p0 −3.479 ± 1.907
pull
Entries 56
Mean −10.87
Std Dev 56.13
pull1D
Entries 56
Mean −0.2153
Std Dev 0.5342

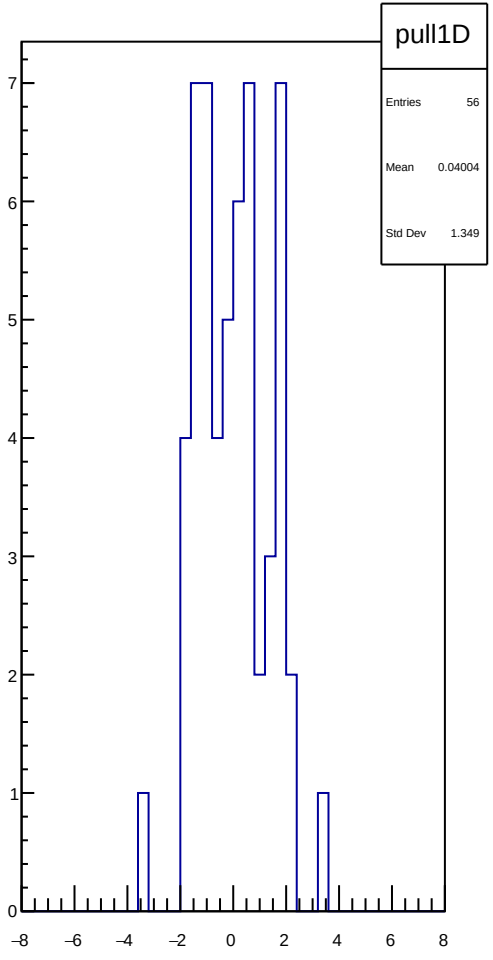

reg_asym_atl_dd_atr_dd_dd_diff_bpm11X_slope vs run
χ² / ndf 13.77 / 55
p0 −21.87 ± 0.3407
pull
Entries 56
Mean −0.2228
Std Dev 53.19
pull1D
Entries 56
Mean 0.02257
Std Dev 0.4954

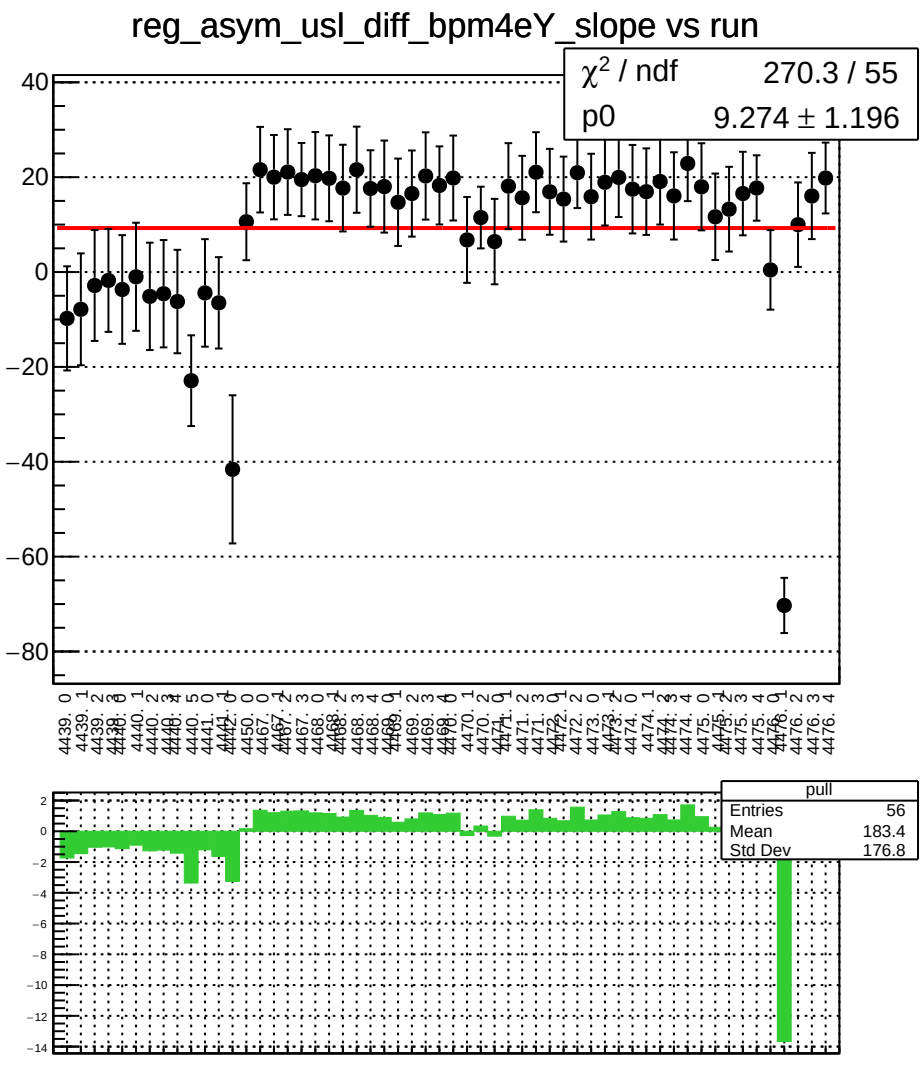

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 33.41 / 55
p0 39.37 ± 0.9053
pull
Entries 56
Mean −24.94
Std Dev 40.22
pull1D
Entries 56
Mean −0.08458
Std Dev 0.7677

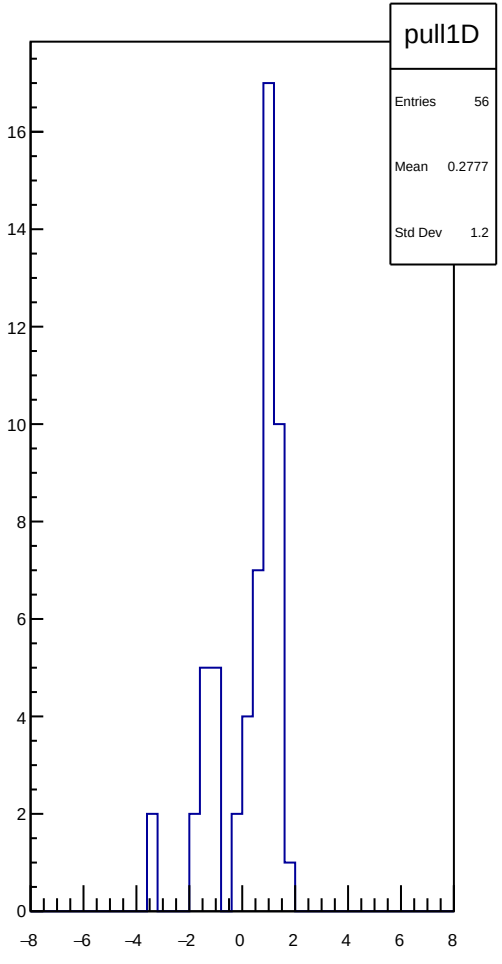

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 287.1 / 55
p0 −2.937 ± 0.9909
pull
Entries 56
Mean 60.47
Std Dev 40.81

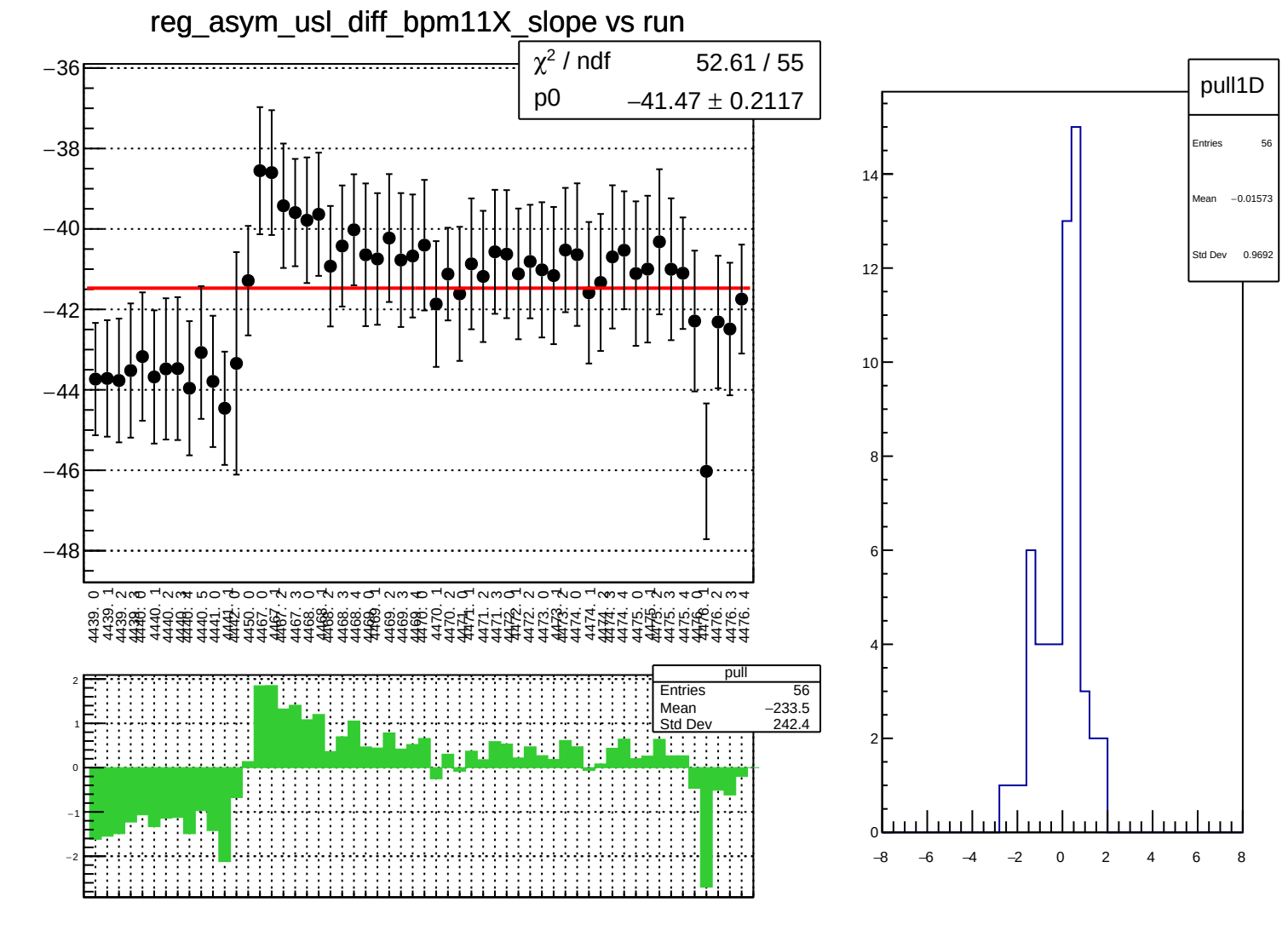

pull1D
Entries 56
Mean −0.5188
Std Dev 1.588

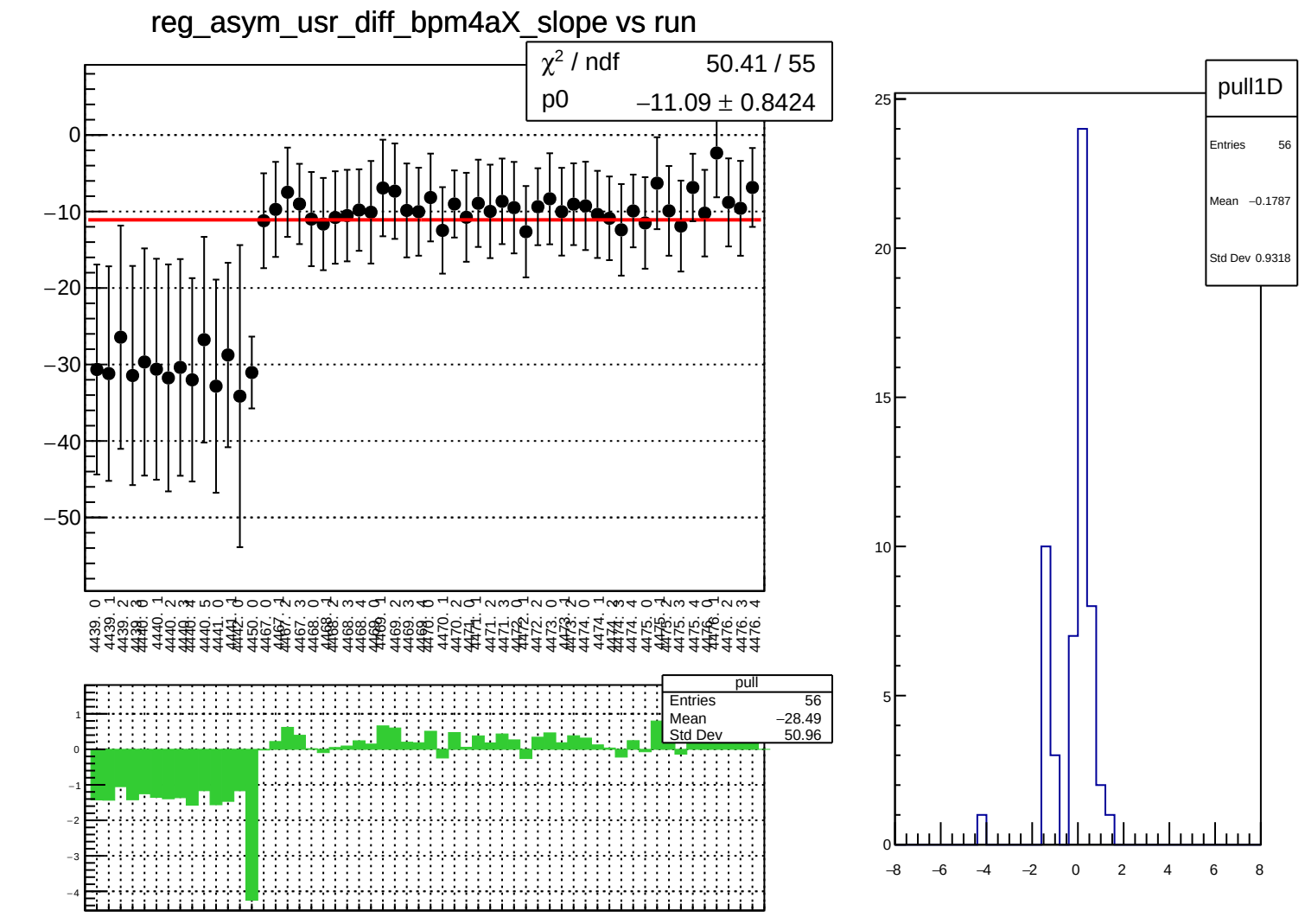

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 101.9 / 55
p0 −69.65 ± 0.159
pull
Entries 56
Mean −438.2
Std Dev 464.6

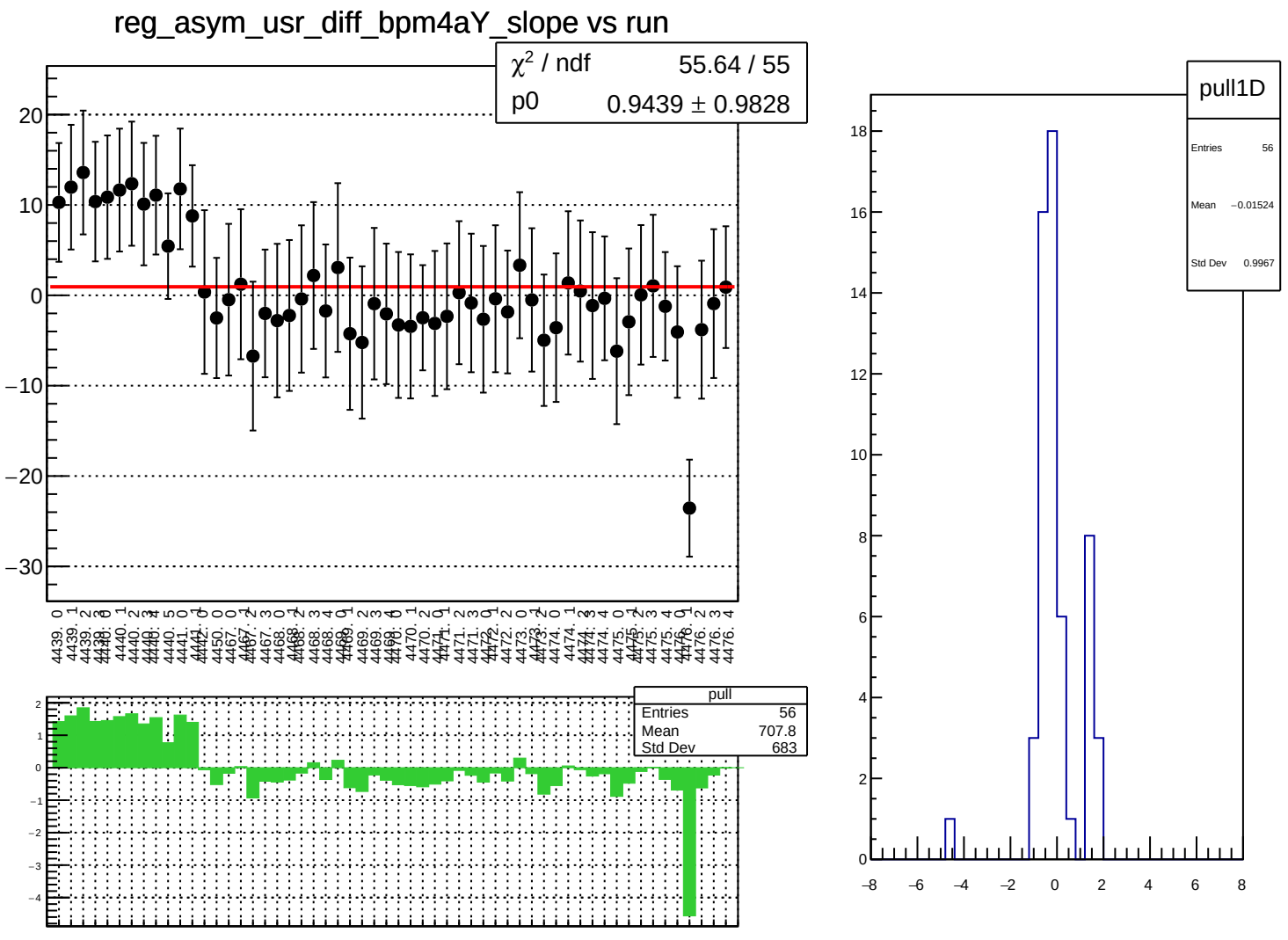

pull1D
Entries 56
Mean 0.04004
Std Dev 1.349

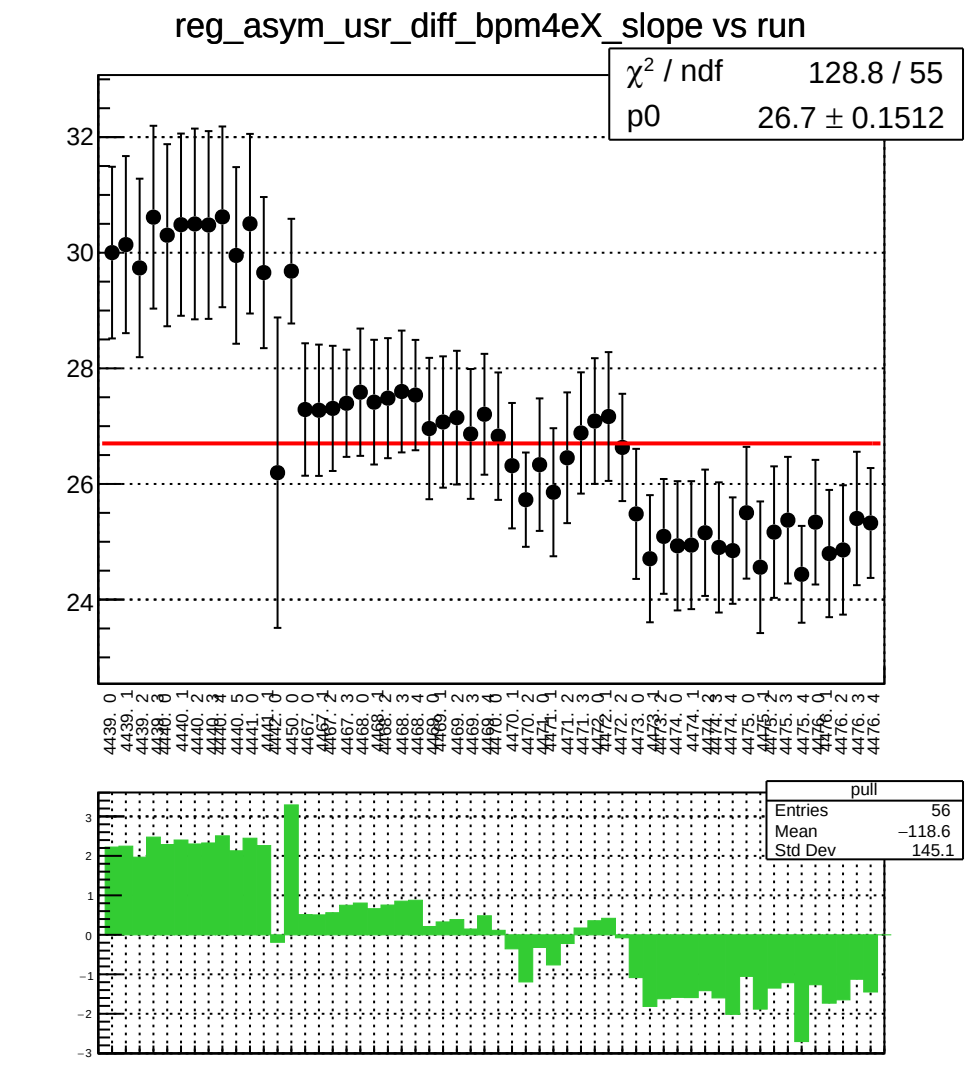

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 270.3 / 55
p0 9.274 ± 1.196
pull
Entries 56
Mean 183.4
Std Dev 176.8

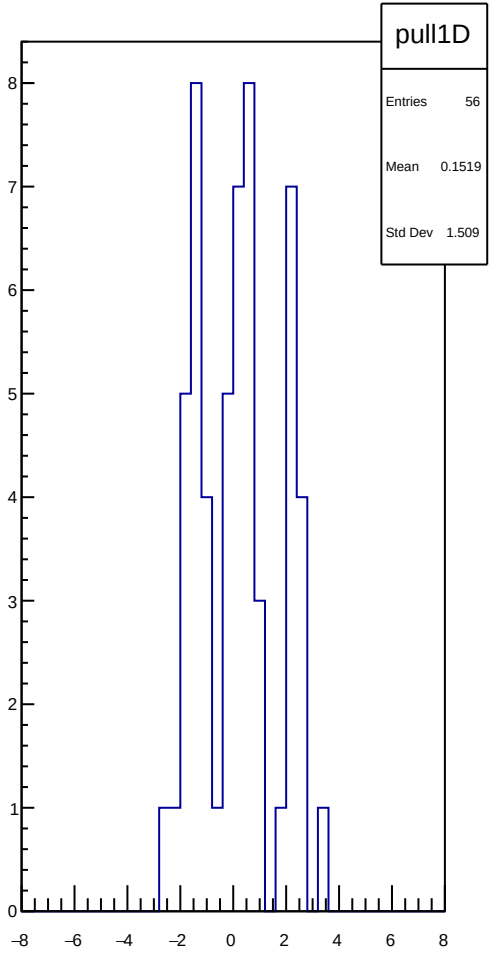

pull1D
Entries 56
Mean 0.2777
Std Dev 1.2

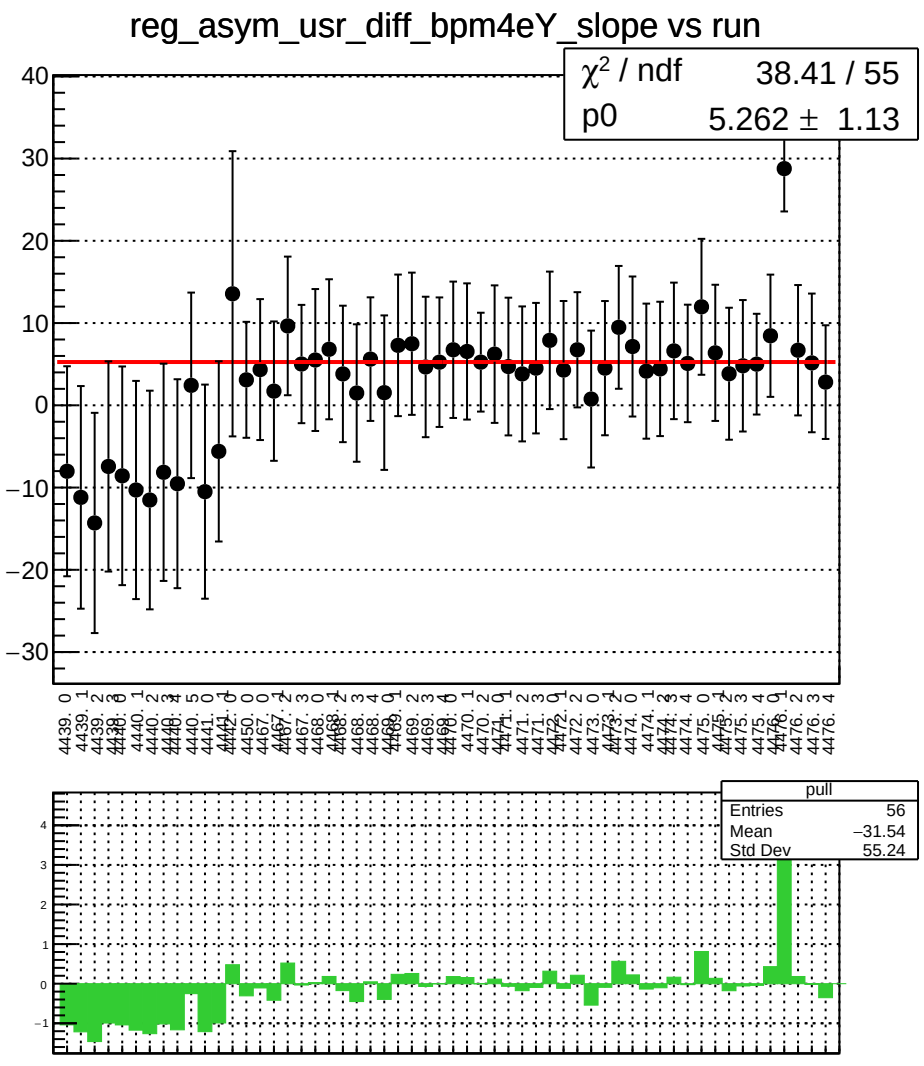

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 52.61 / 55
p0 −41.47 ± 0.2117
pull
Entries 56
Mean −233.5
Std Dev 242.4
pull1D
Entries 56
Mean −0.01573
Std Dev 0.9692

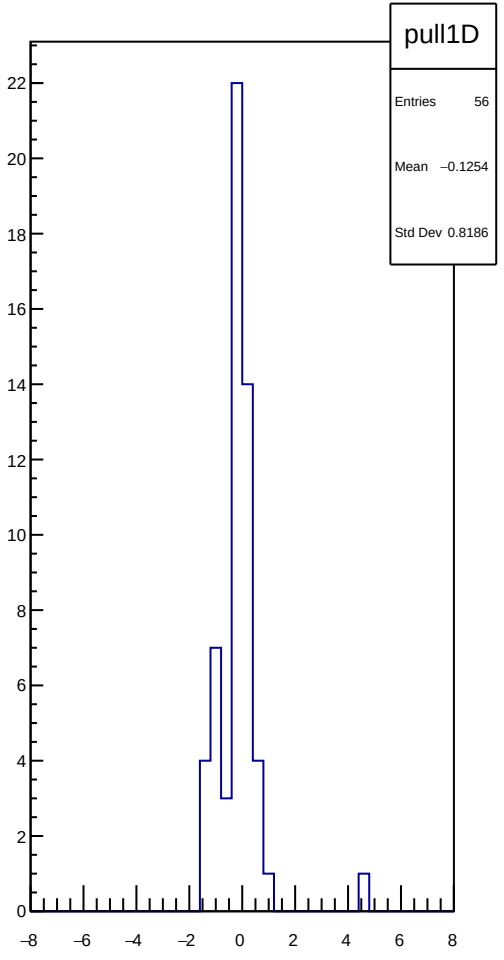

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 50.41 / 55
p0 −11.09 ± 0.8424
pull
Entries 56
Mean −28.49
Std Dev 50.96
pull1D
Entries 56
Mean −0.1787
Std Dev 0.9318

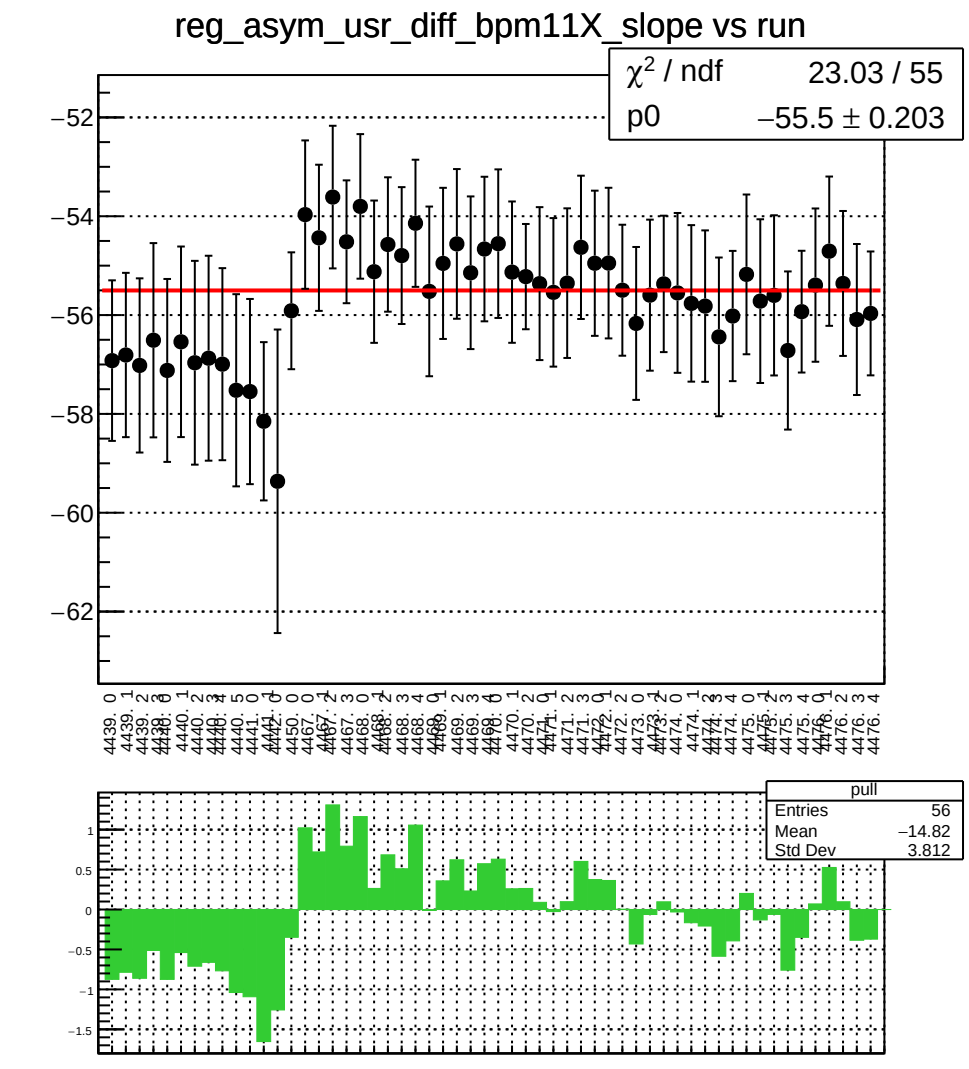

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 55.64 / 55
p0 0.9439 ± 0.9828
pull
Entries 56
Mean 707.8
Std Dev 683
pull1D
Entries 56
Mean −0.01524
Std Dev 0.9967

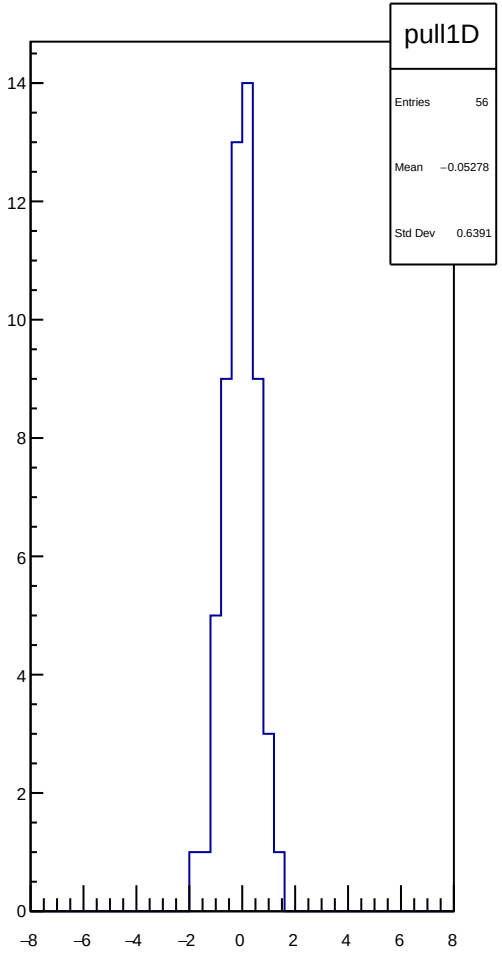

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 128.8 / 55
p0 26.7 ± 0.1512
32
30
28
26
24
pull
Entries 56
Mean −118.6
Std Dev 145.1
3
2
1
0
−1
−2
−3

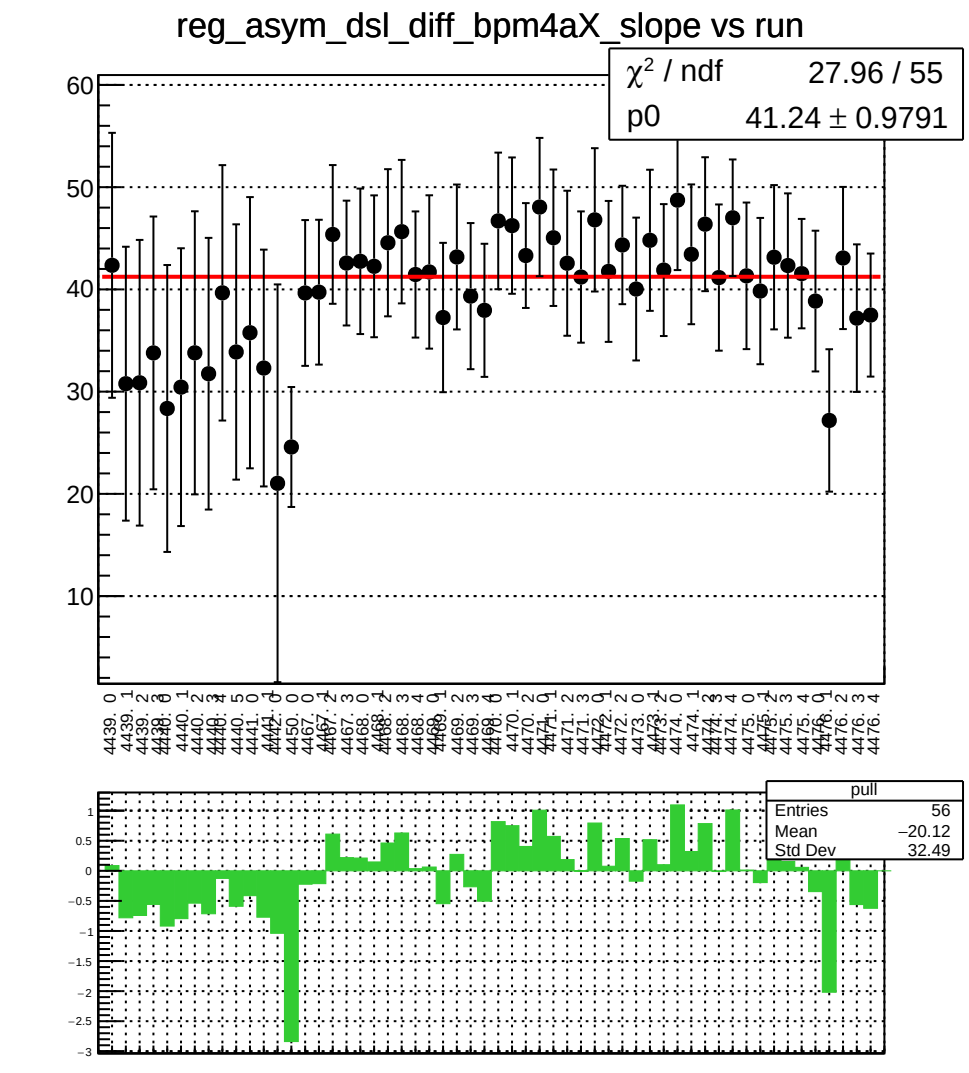

pull1D
Entries 56
Mean 0.1519
Std Dev 1.509
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

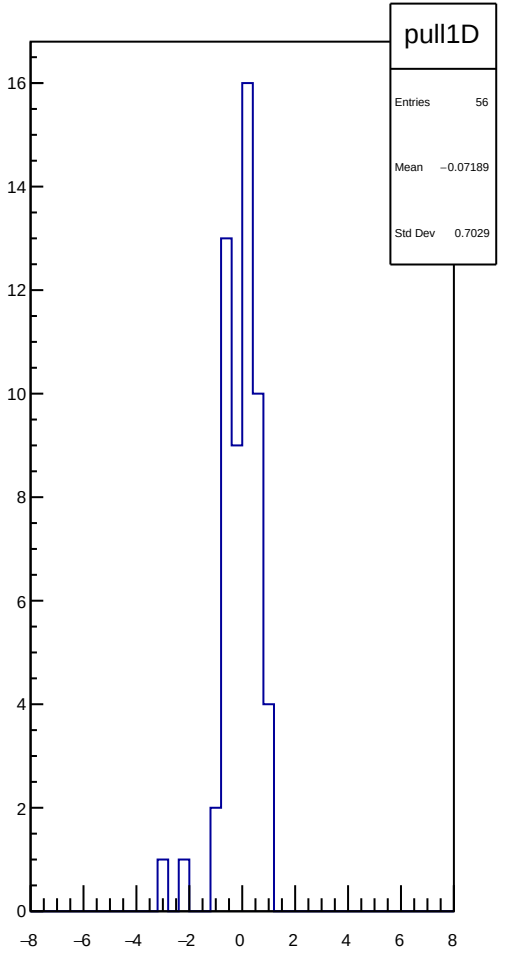

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 38.41 / 55
p0 5.262 ± 1.13
pull
Entries 56
Mean −31.54
Std Dev 55.24

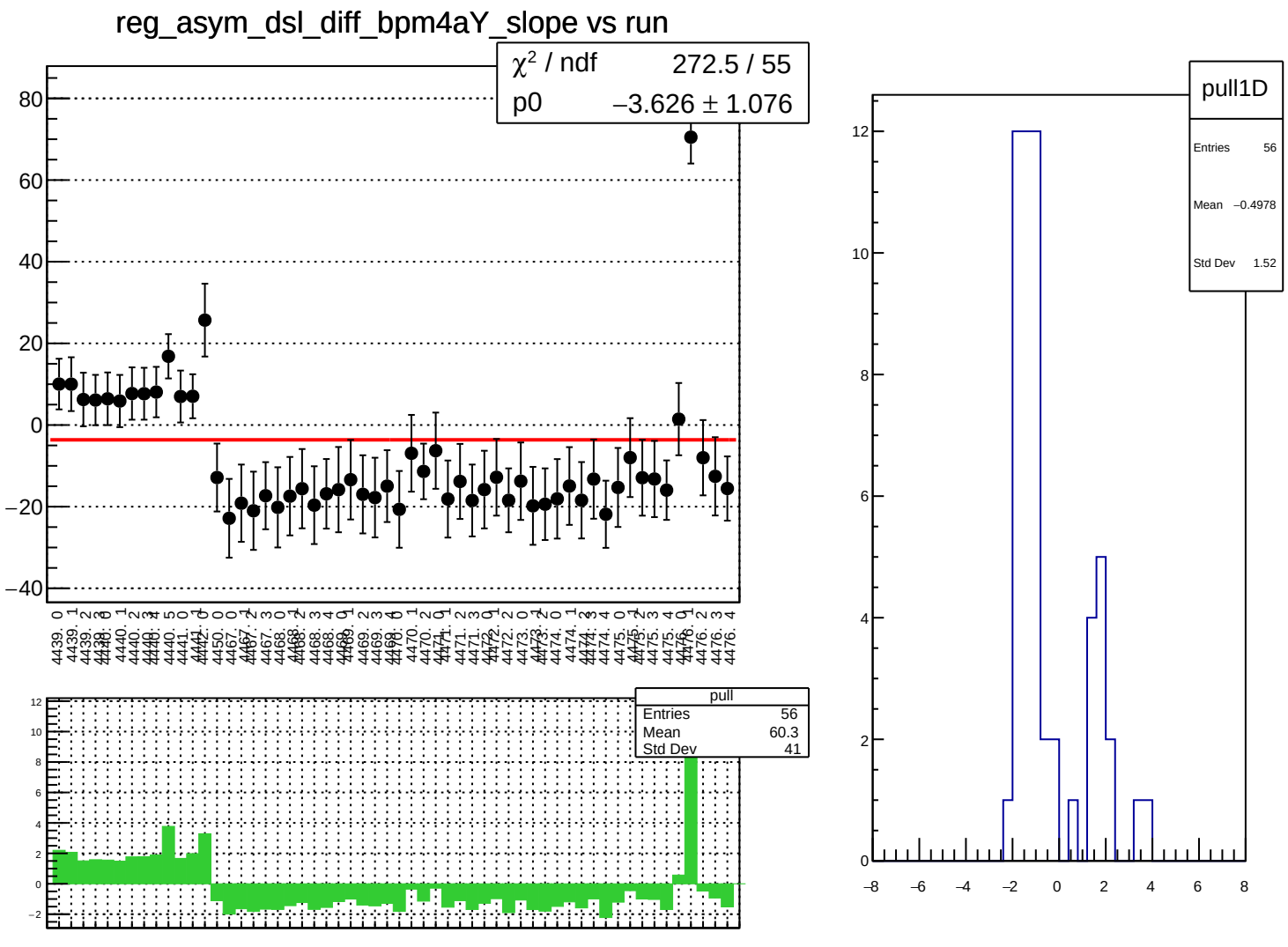

pull1D
Entries 56
Mean −0.1254
Std Dev 0.8186

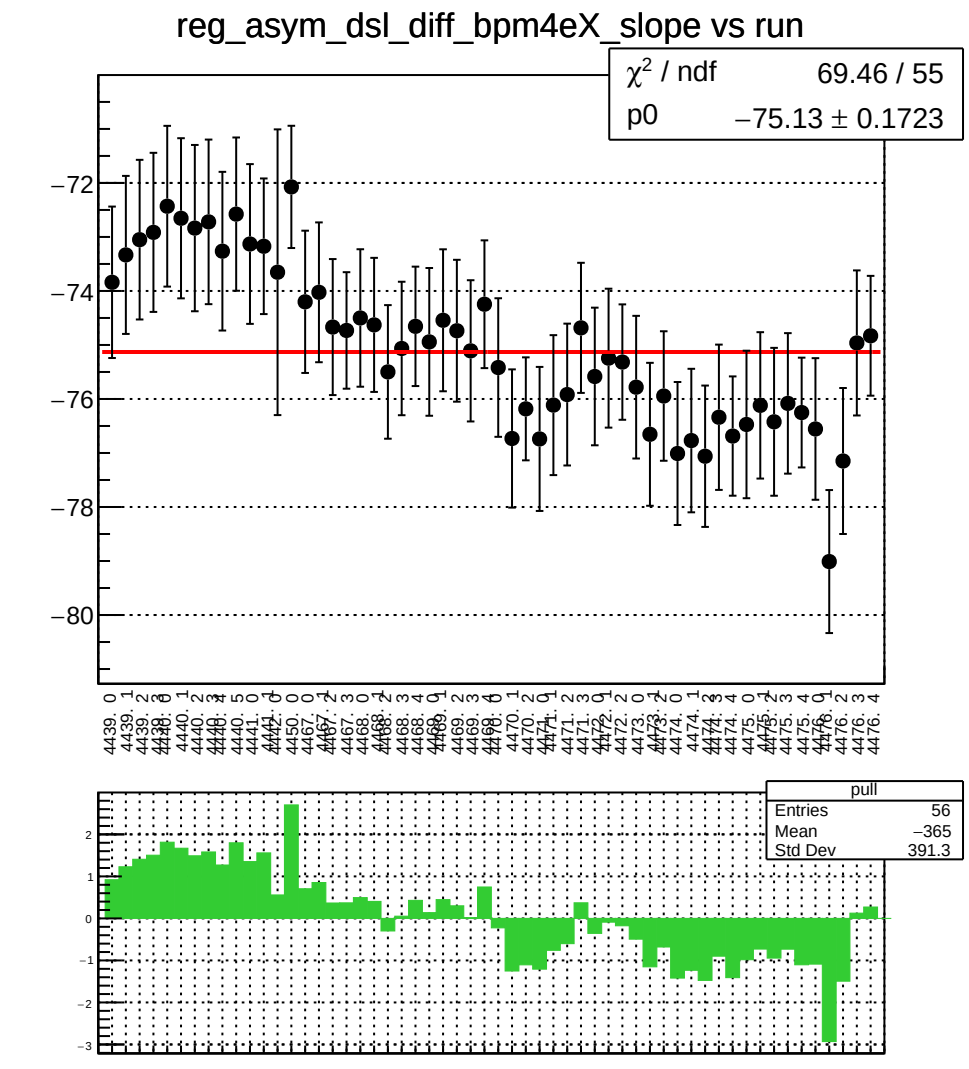

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 23.03 / 55
p0 −55.5 ± 0.203
pull
Entries 56
Mean −14.82
Std Dev 3.812

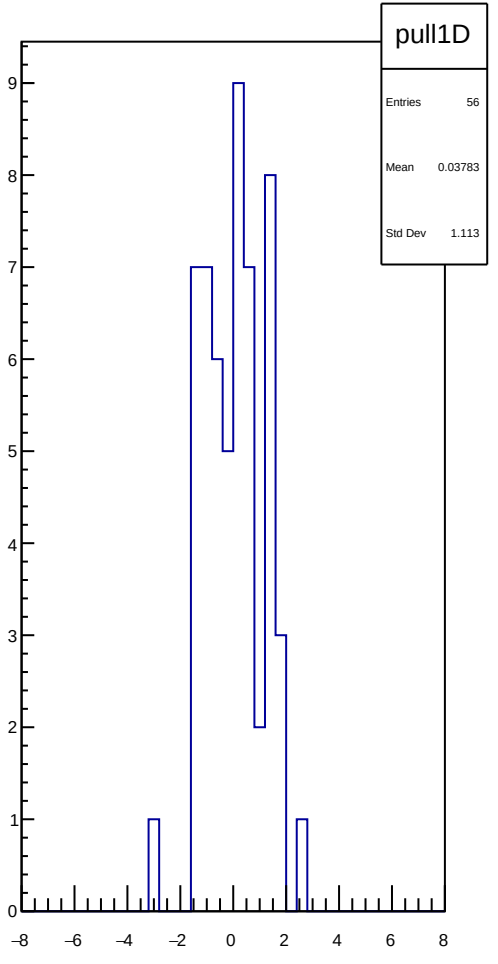

pull1D
Entries 56
Mean −0.05278
Std Dev 0.6391

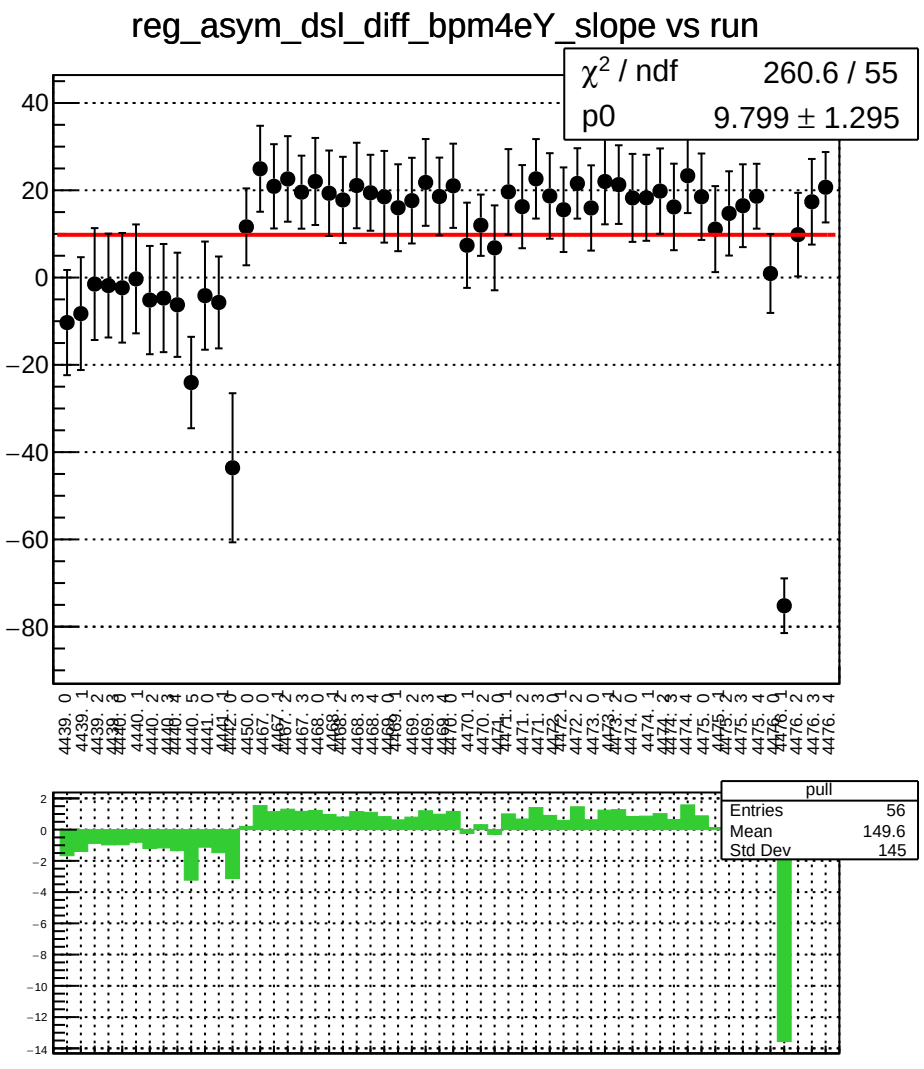

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 27.96 / 55
p0 41.24 ± 0.9791
pull
Entries 56
Mean −20.12
Std Dev 32.49

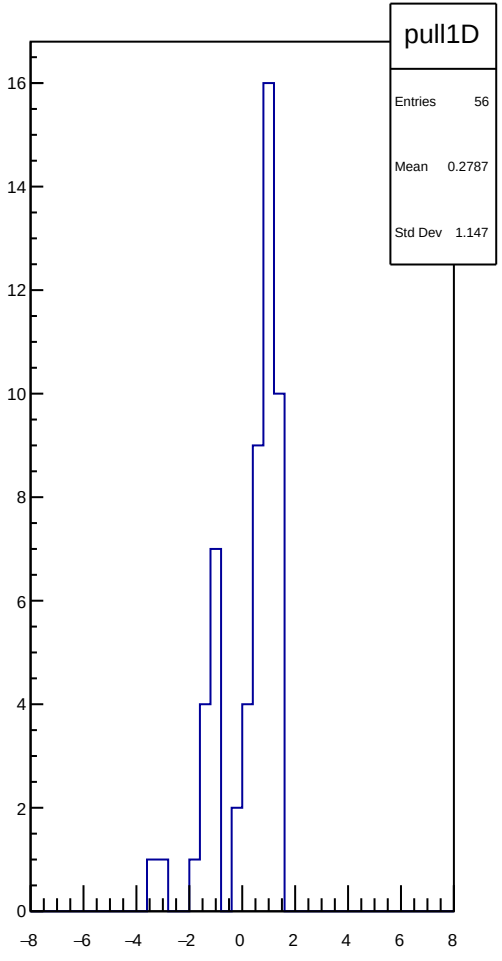

pull1D
Entries 56
Mean −0.07189
Std Dev 0.7029

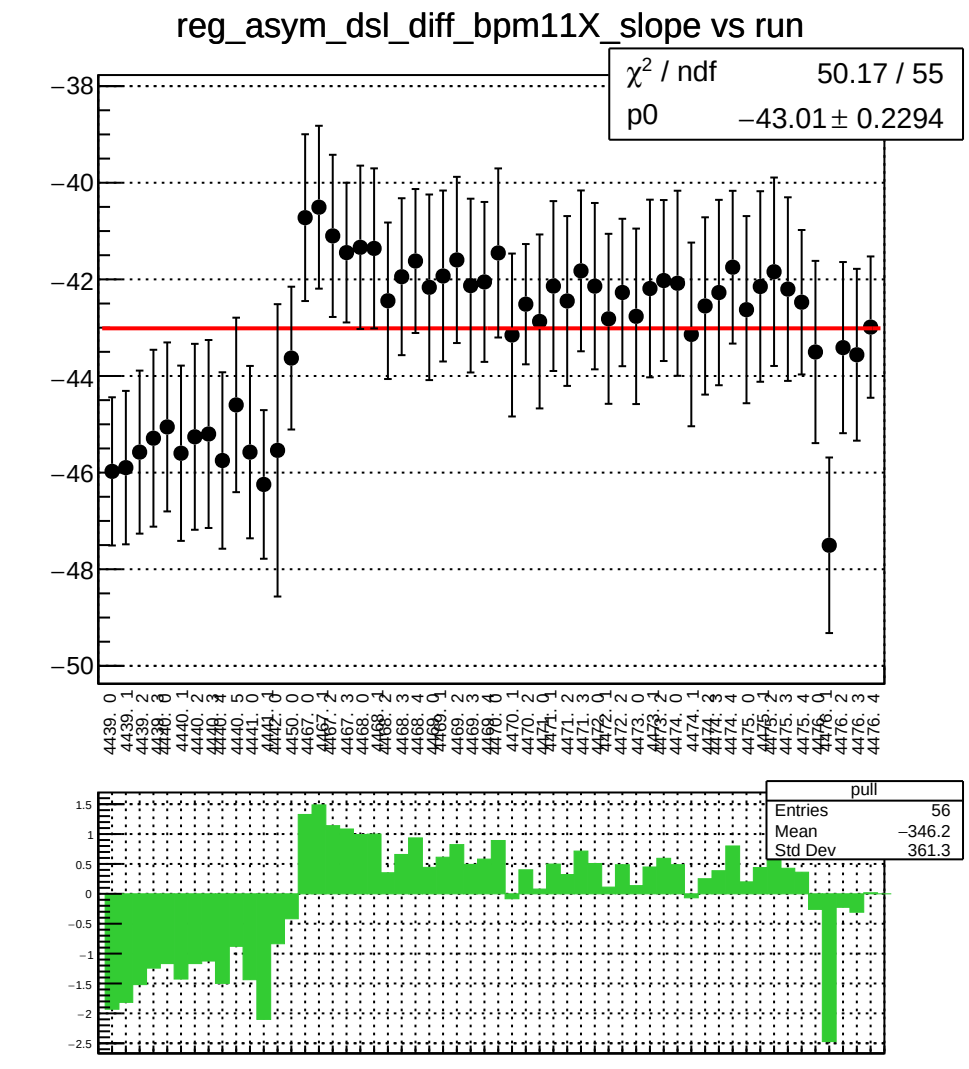

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 272.5 / 55
p0 −3.626 ± 1.076
pull
Entries 56
Mean 60.3
Std Dev 41
pull1D
Entries 56
Mean −0.4978
Std Dev 1.52

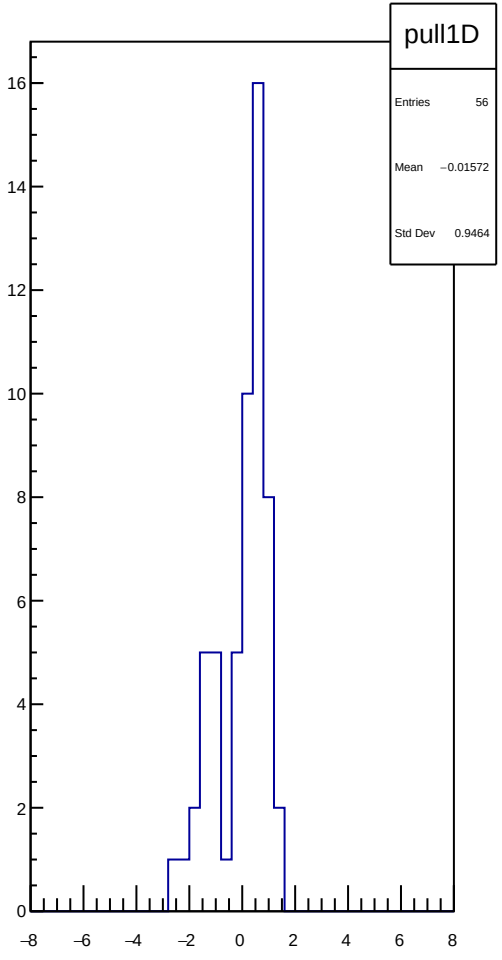

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 69.46 / 55
p0 −75.13 ± 0.1723
pull
Entries 56
Mean −365
Std Dev 391.3

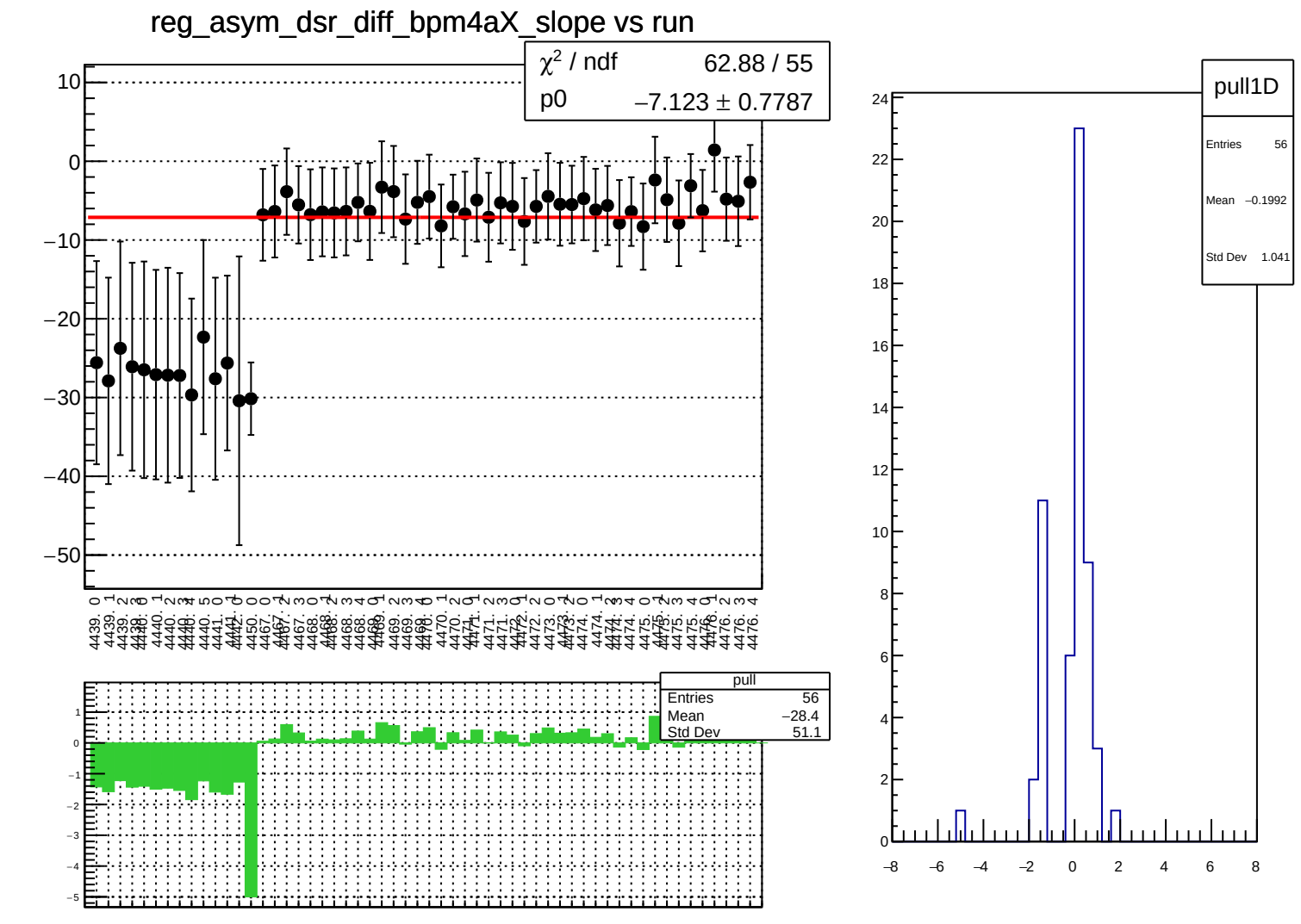

pull1D
Entries 56
Mean 0.03783
Std Dev 1.113

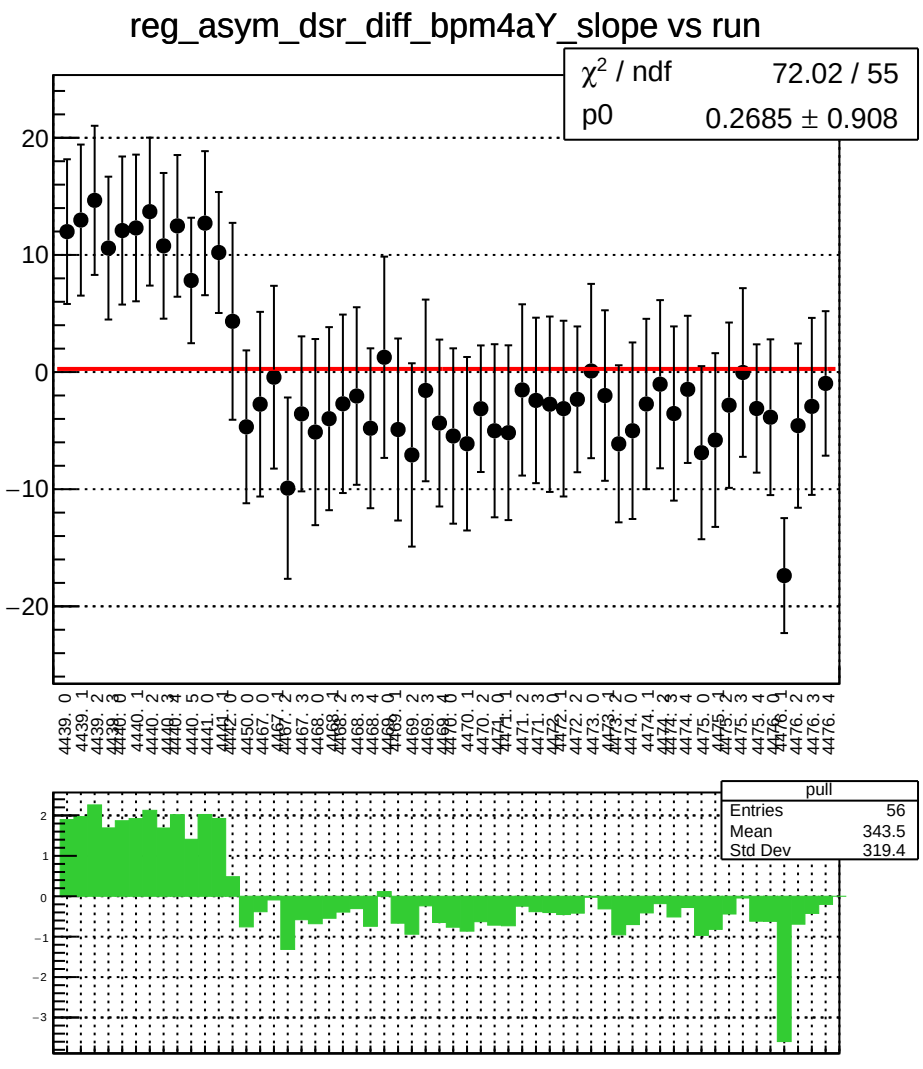

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 260.6 / 55
p0 9.799 ± 1.295
pull
Entries 56
Mean 149.6
Std Dev 145

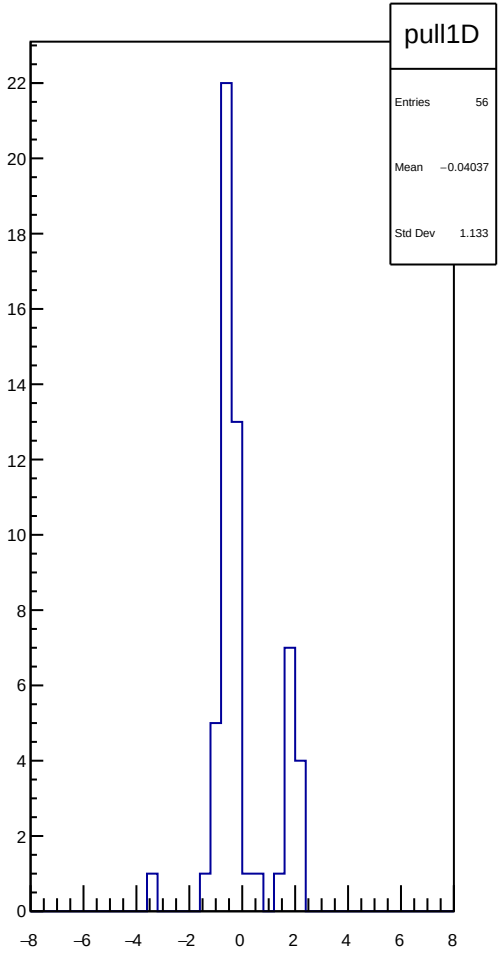

pull1D
Entries 56
Mean 0.2787
Std Dev 1.147

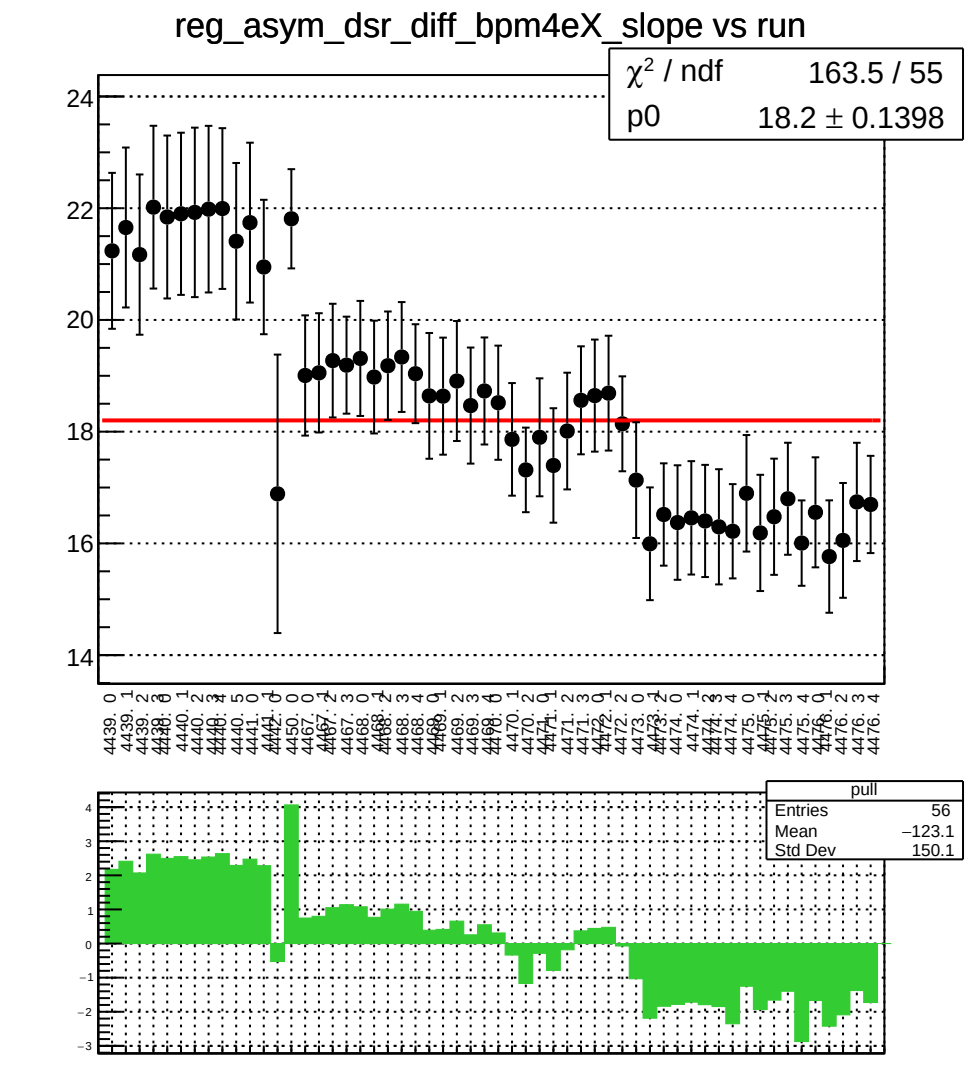

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 50.17 / 55
p0 −43.01 ± 0.2294
pull
Entries 56
Mean −346.2
Std Dev 361.3

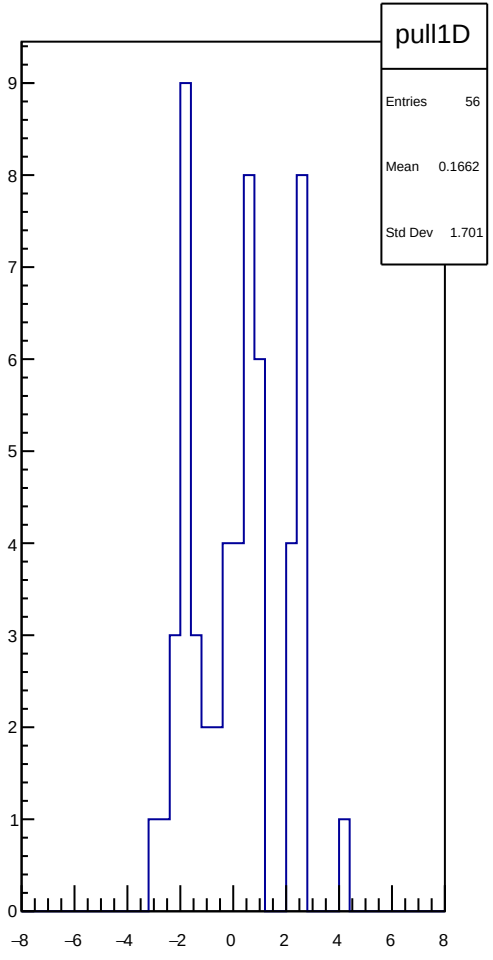

pull1D
Entries 56
Mean −0.01572
Std Dev 0.9464

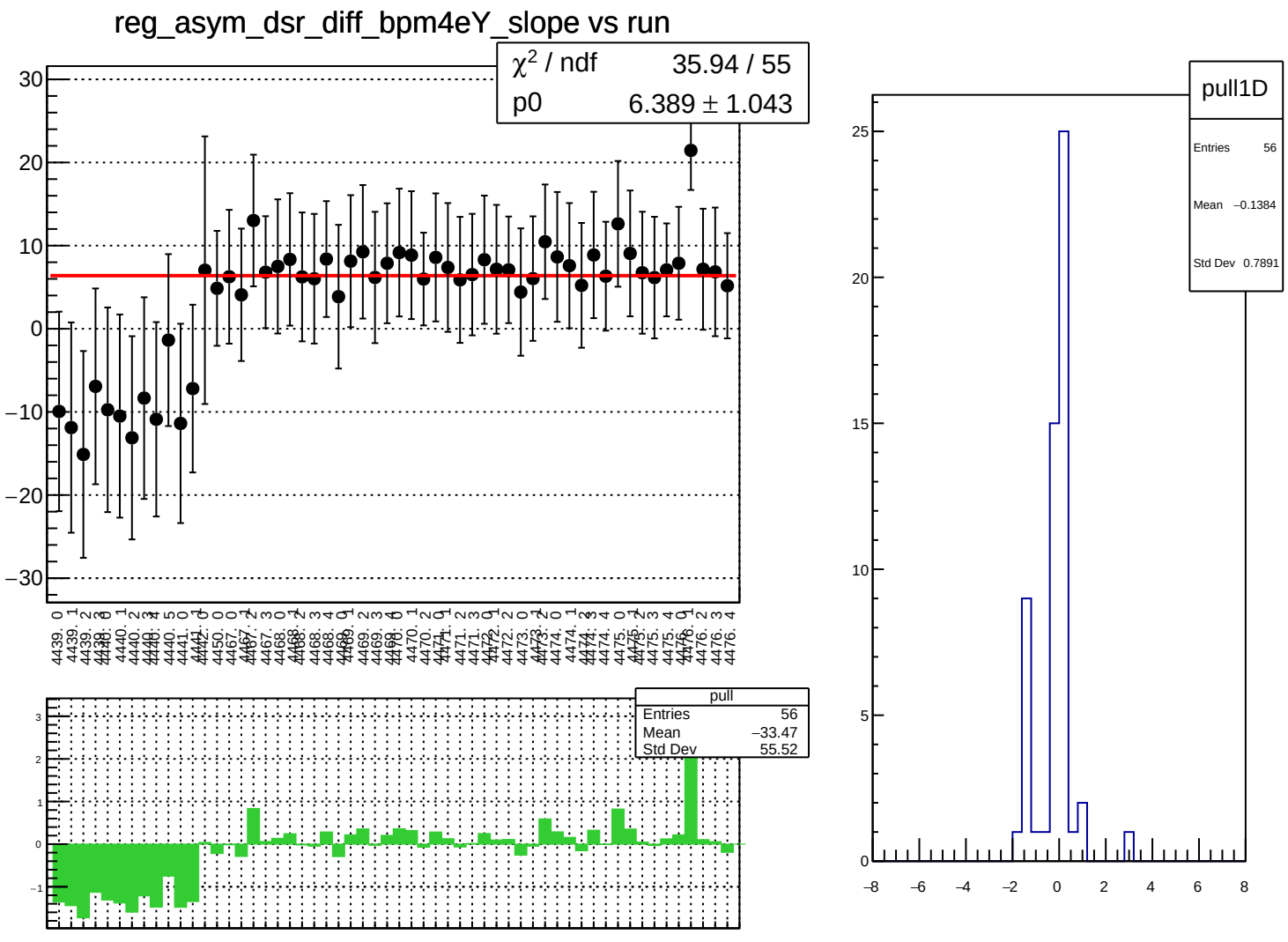

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 62.88 / 55
p0 −7.123 ± 0.7787
pull
Entries 56
Mean −28.4
Std Dev 51.1
pull1D
Entries 56
Mean −0.1992
Std Dev 1.041

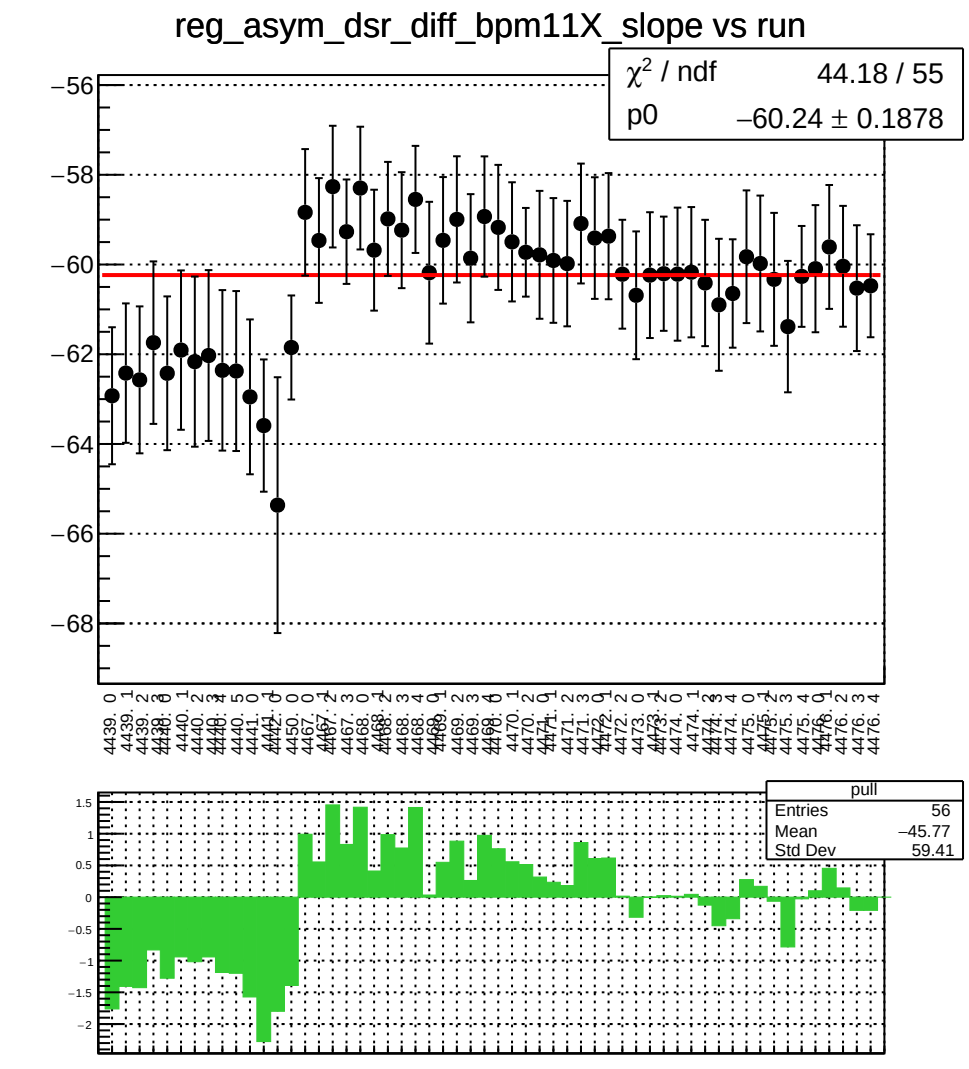

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 72.02 / 55
p0 0.2685 ± 0.908
pull
Entries 56
Mean 343.5
Std Dev 319.4

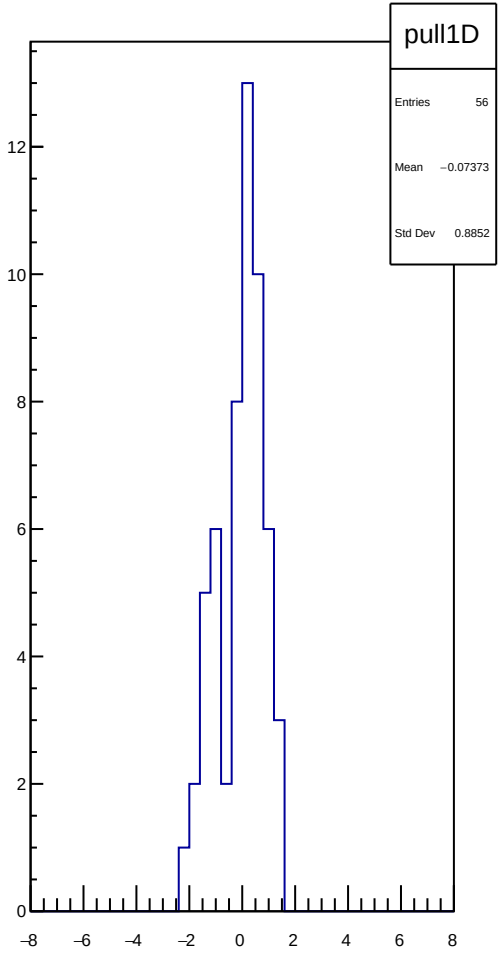

pull1D
Entries 56
Mean −0.04037
Std Dev 1.133

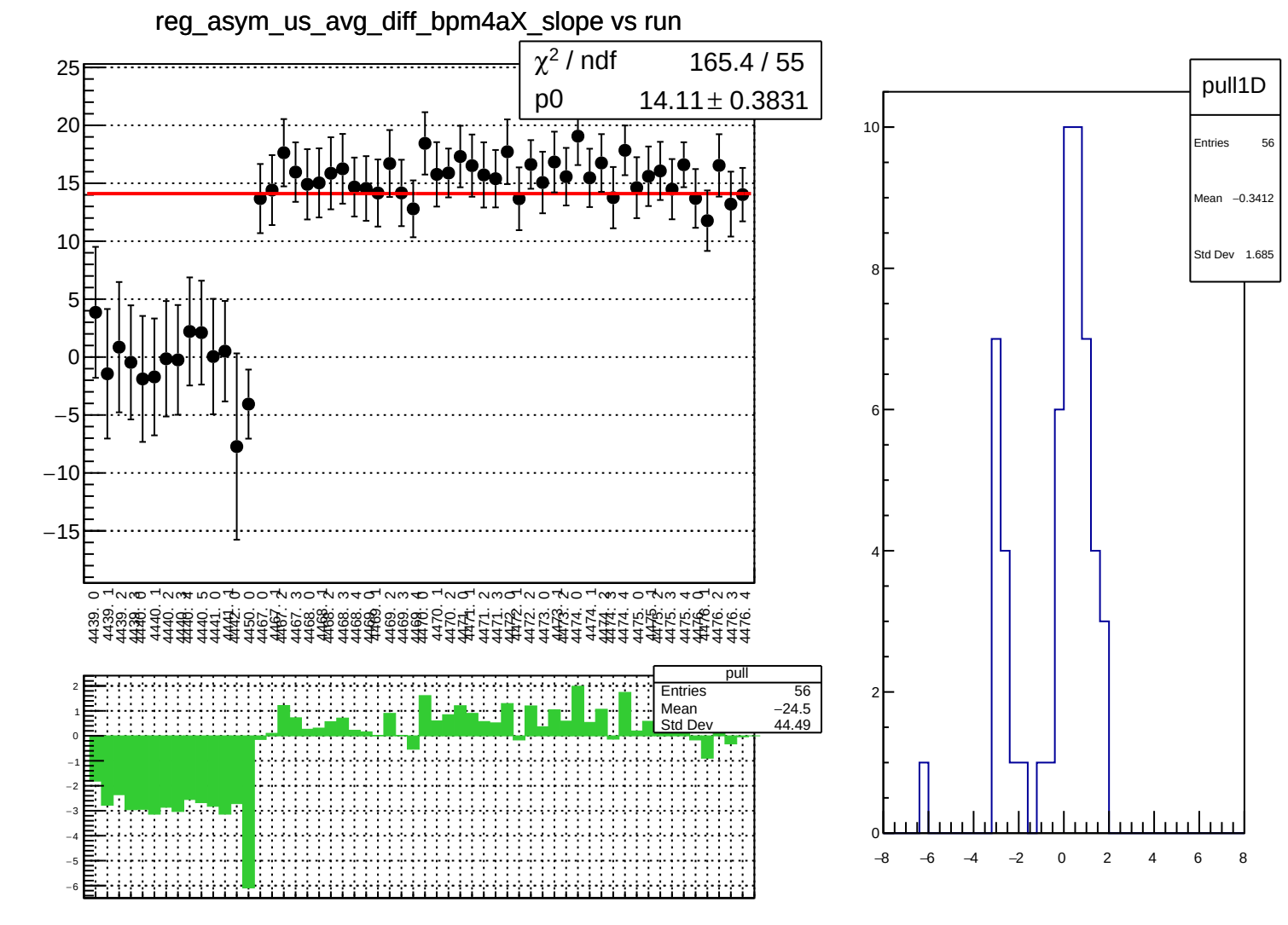

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 163.5 / 55
p0 18.2 ± 0.1398
pull
Entries 56
Mean −123.1
Std Dev 150.1

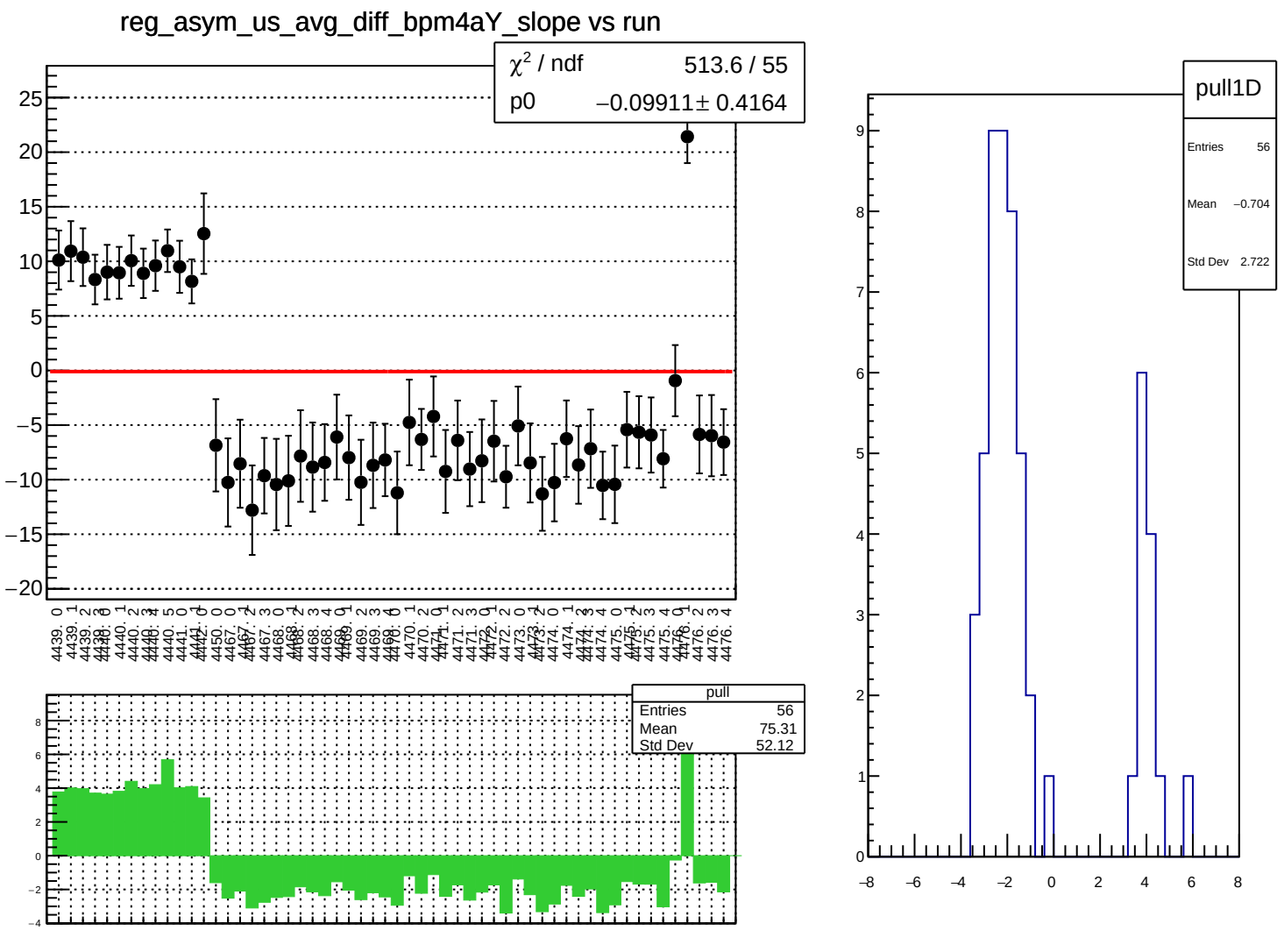

pull1D
Entries 56
Mean 0.1662
Std Dev 1.701

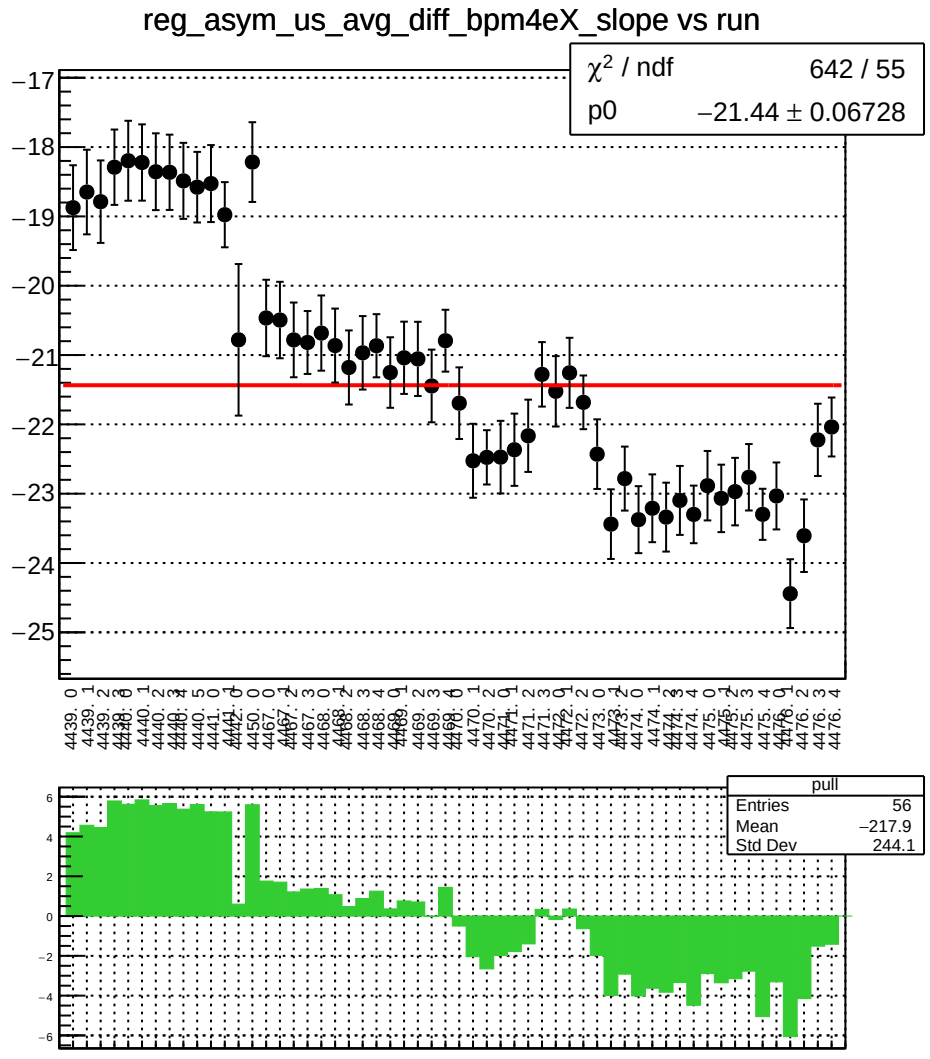

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 35.94 / 55
p0 6.389 ± 1.043
pull
Entries 56
Mean −33.47
Std Dev 55.52
pull1D
Entries 56
Mean −0.1384
Std Dev 0.7891

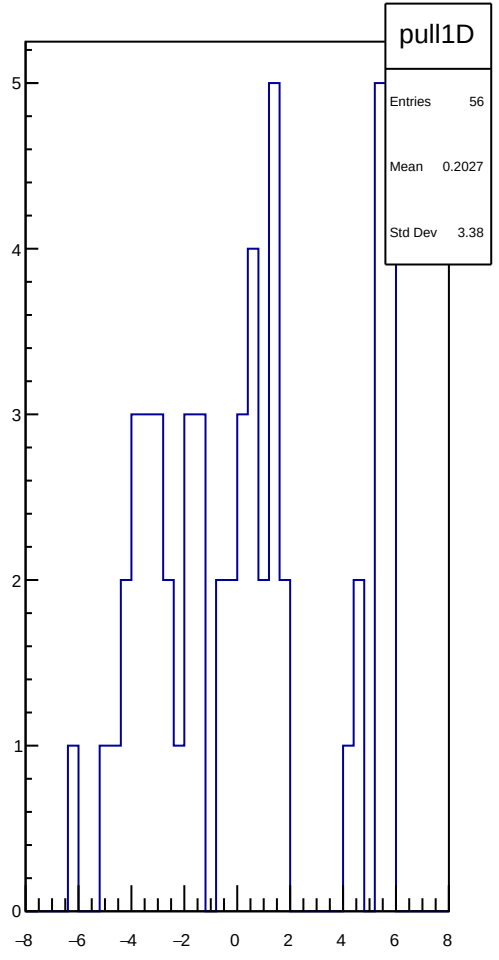

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 44.18 / 55
p0 −60.24 ± 0.1878
pull
Entries 56
Mean −45.77
Std Dev 59.41

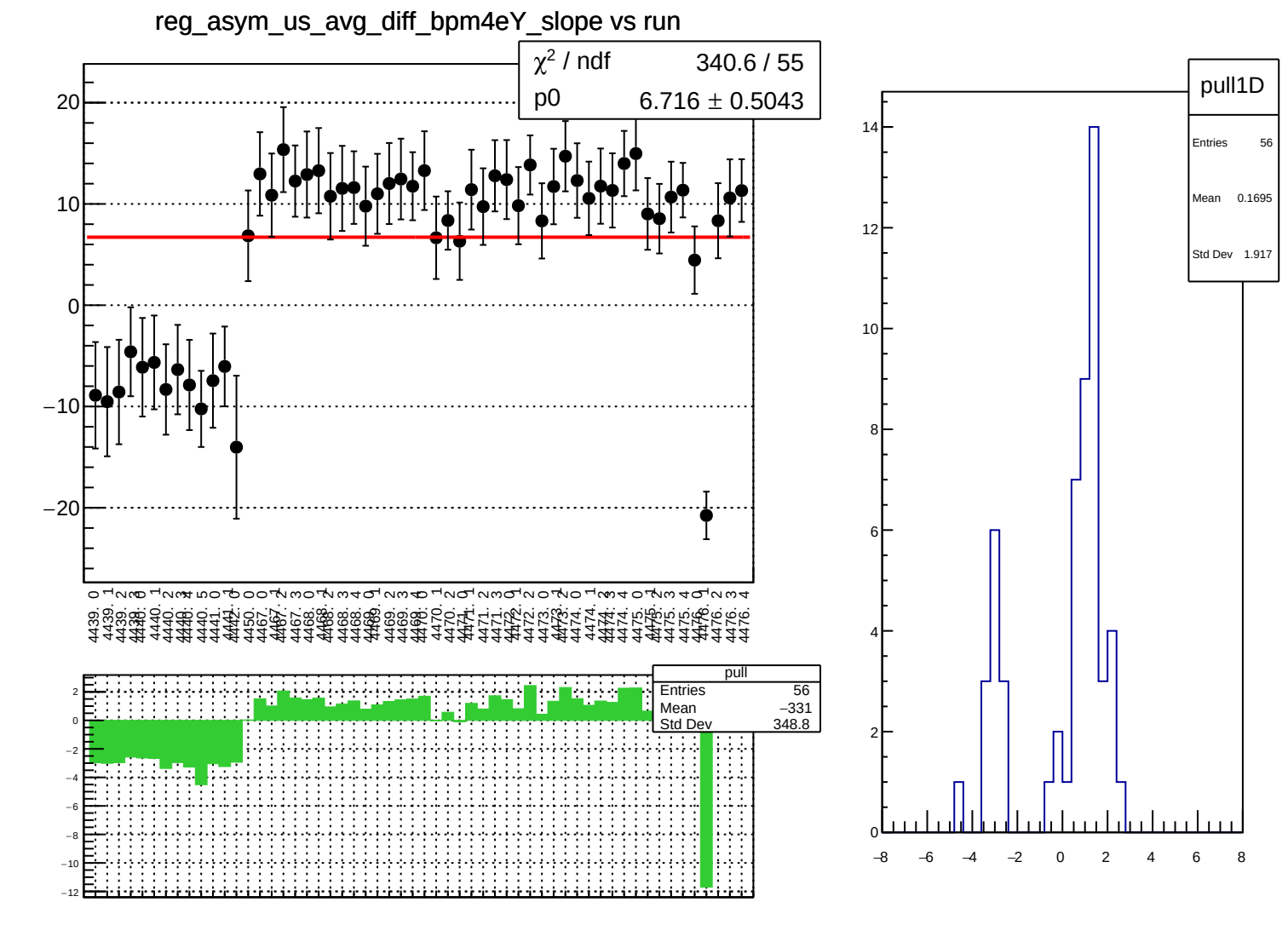

pull1D
Entries 56
Mean −0.07373
Std Dev 0.8852

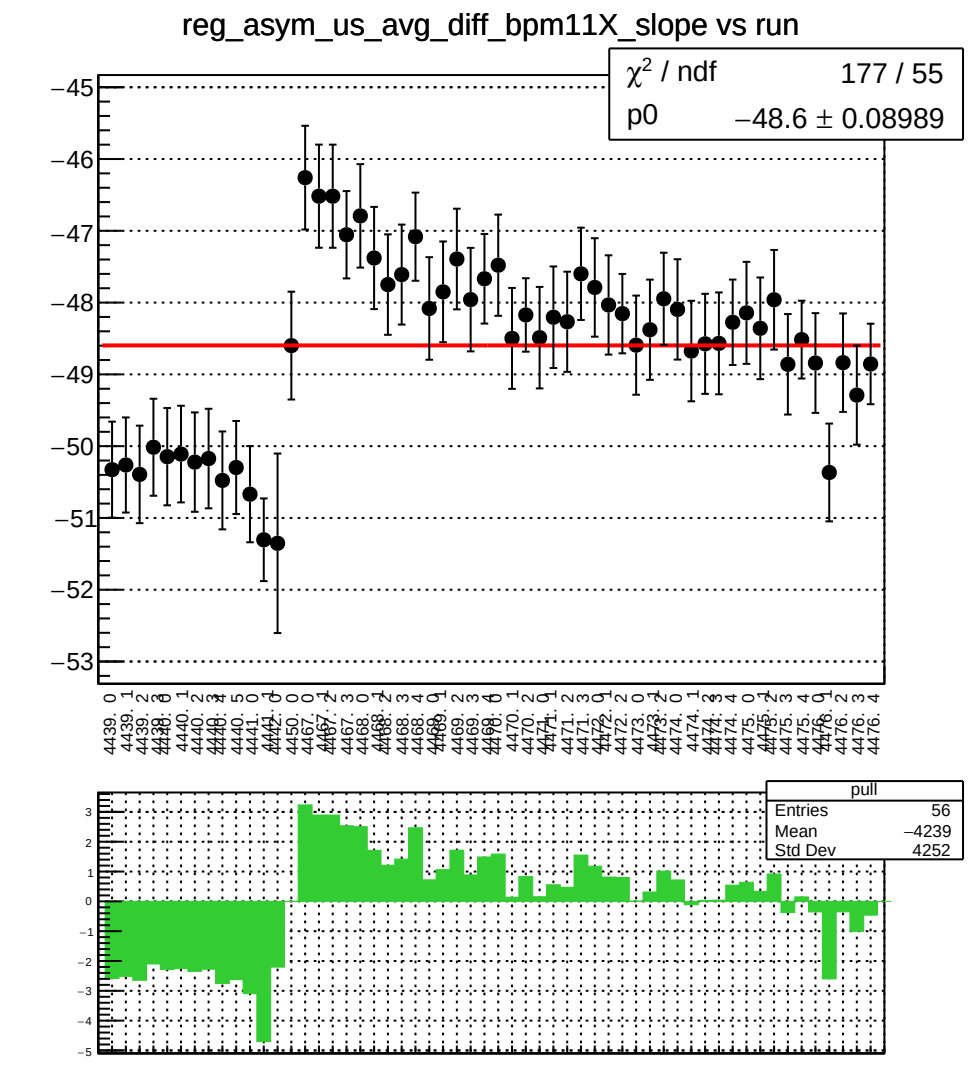

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 165.4 / 55
p0 14.11 ± 0.3831
pull
Entries 56
Mean −24.5
Std Dev 44.49
pull1D
Entries 56
Mean −0.3412
Std Dev 1.685

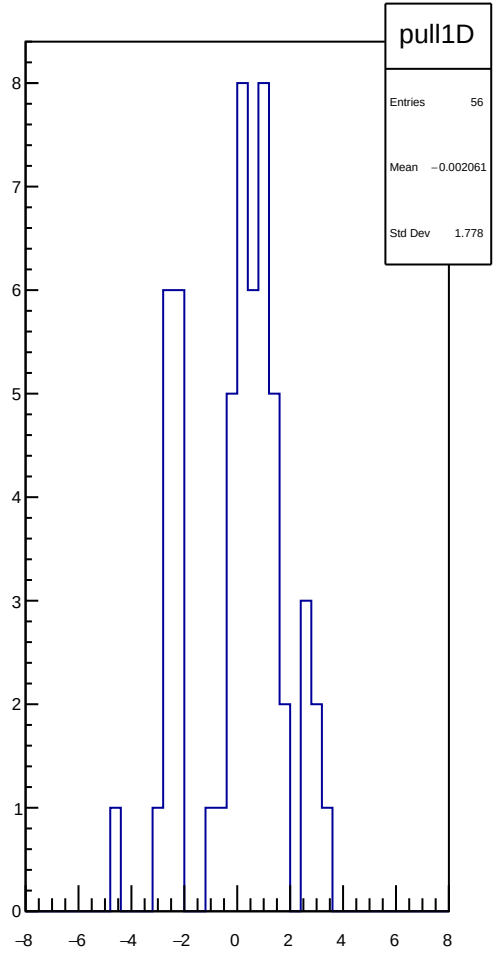

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 513.6 / 55
p0 −0.09911± 0.4164
pull
Entries 56
Mean 75.31
Std Dev 52.12
pull1D
Entries 56
Mean −0.704
Std Dev 2.722

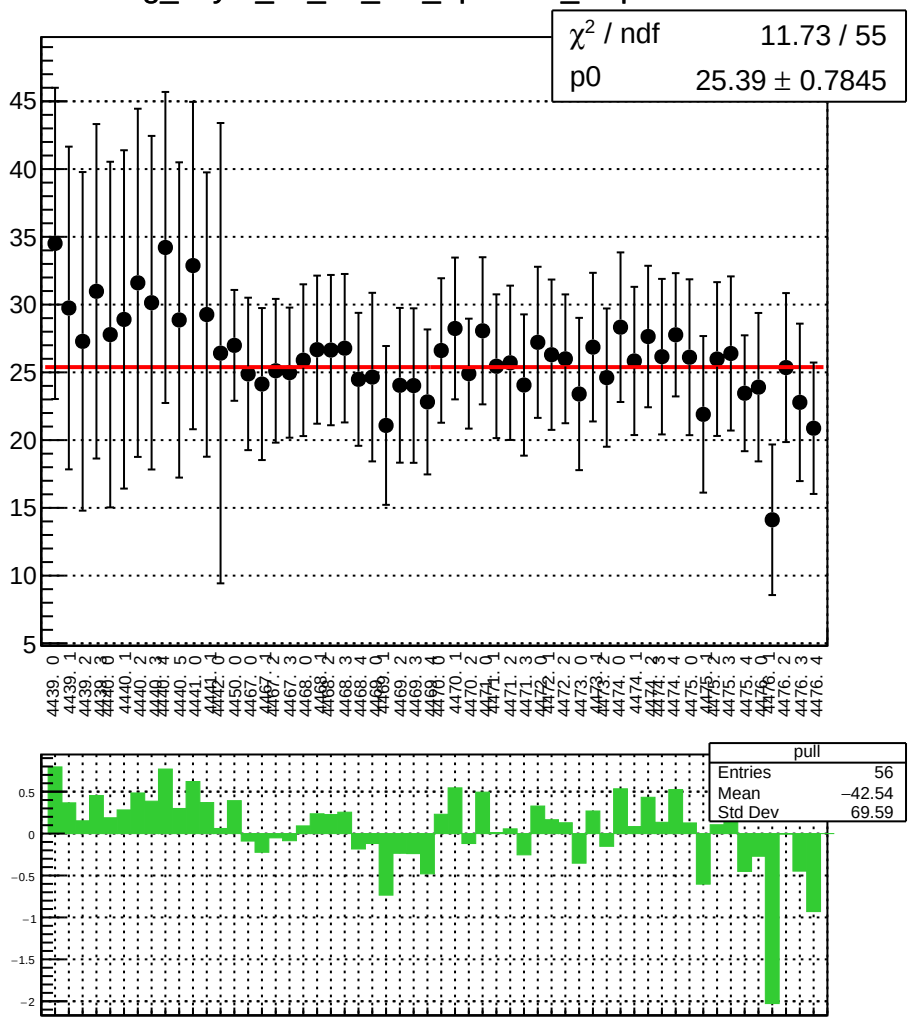

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 642 / 55
p0 −21.44 ± 0.06728
pull
Entries 56
Mean −217.9
Std Dev 244.1

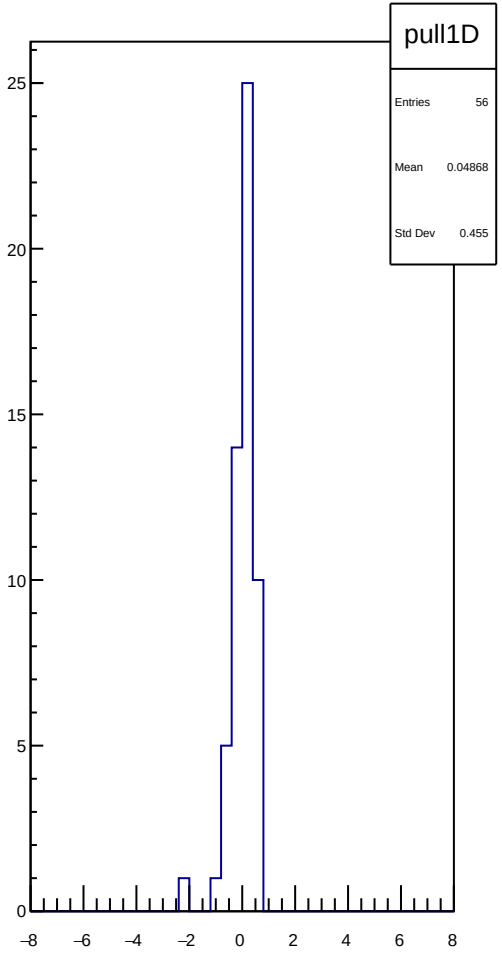

pull1D
Entries 56
Mean 0.2027
Std Dev 3.38

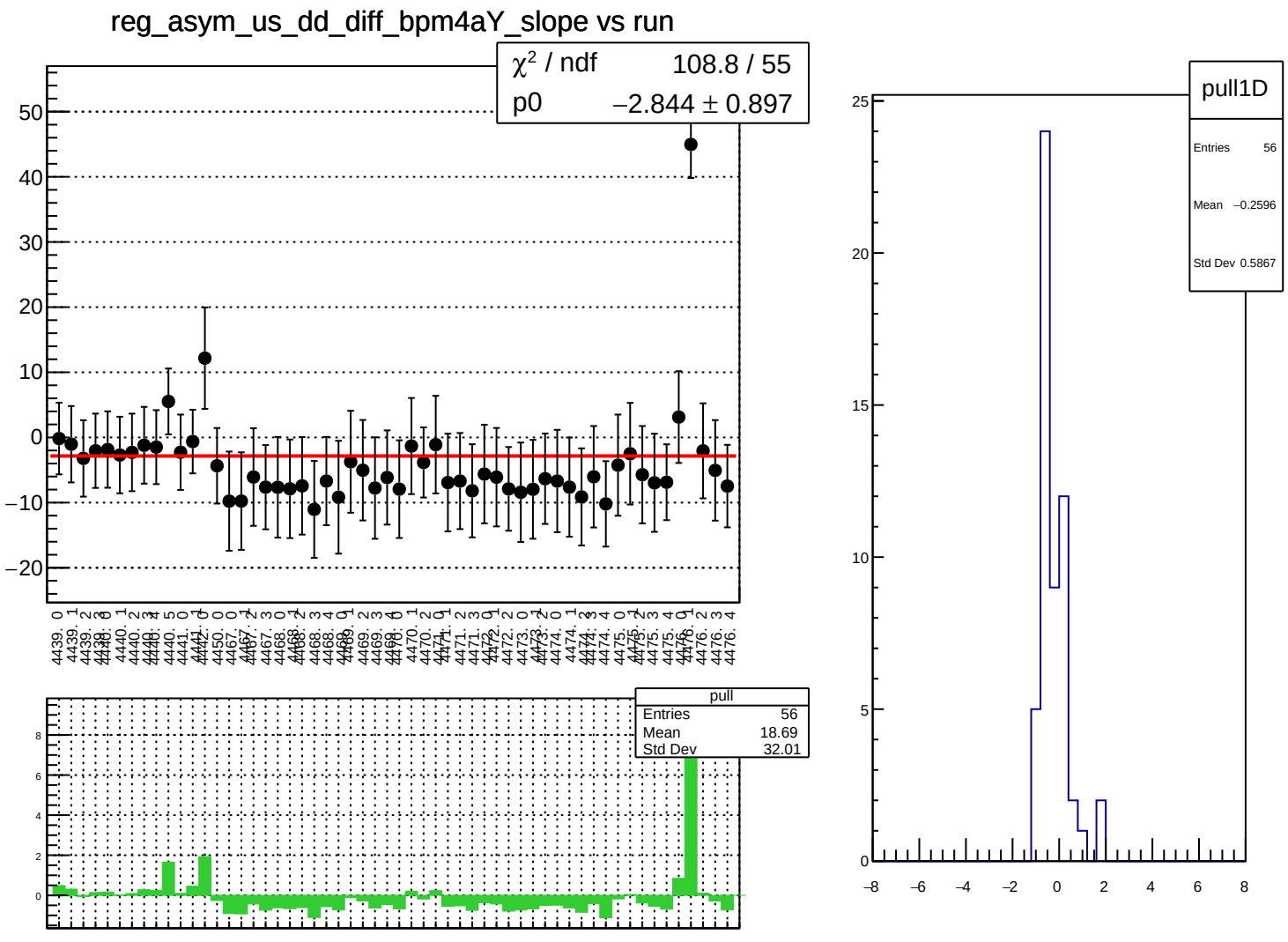

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 340.6 / 55
p0 6.716 ± 0.5043
pull
Entries 56
Mean −331
Std Dev 348.8
pull1D
Entries 56
Mean 0.1695
Std Dev 1.917

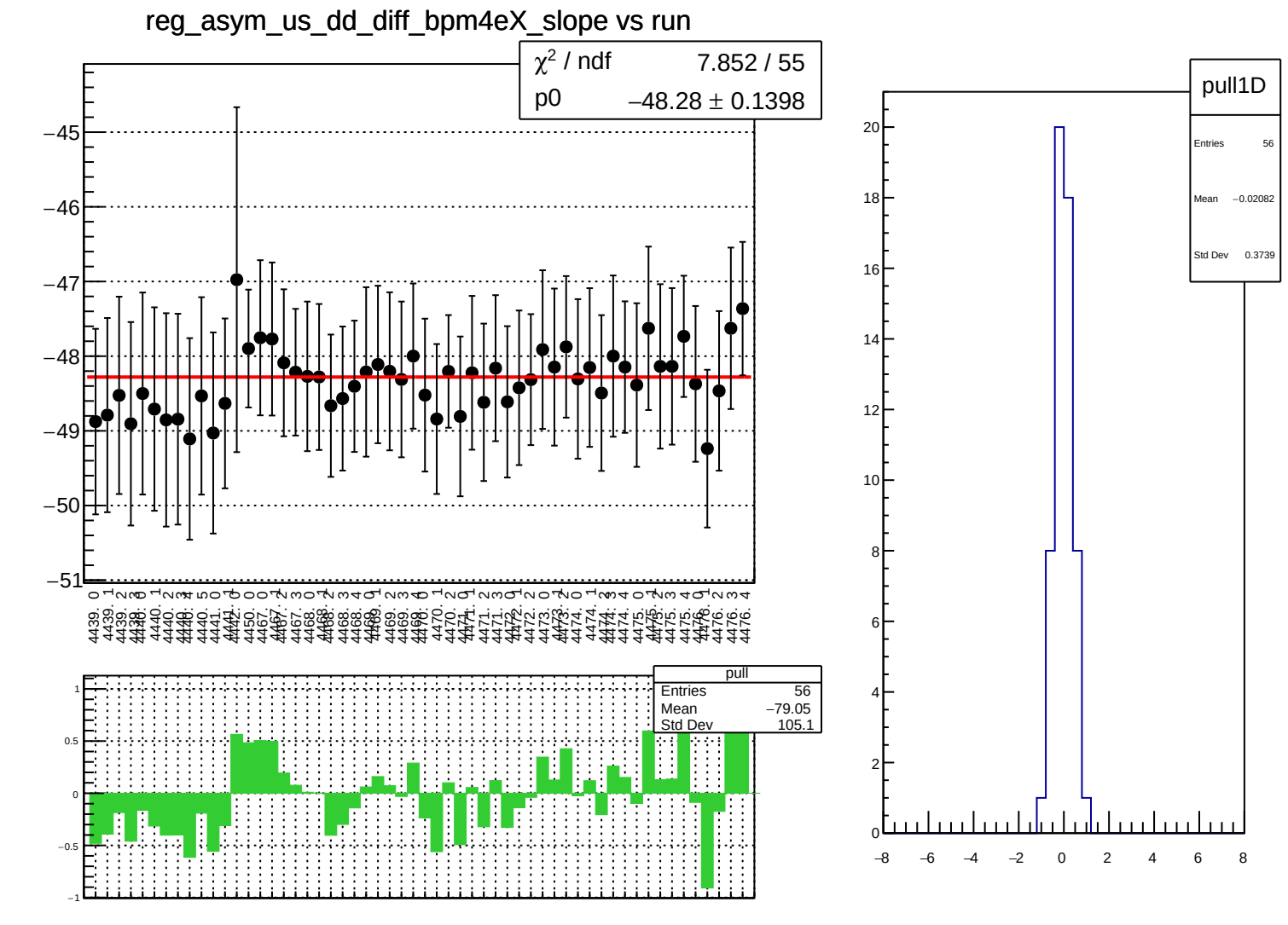

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 177 / 55
p0 −48.6 ± 0.08989
pull
Entries 56
Mean −4239
Std Dev 4252

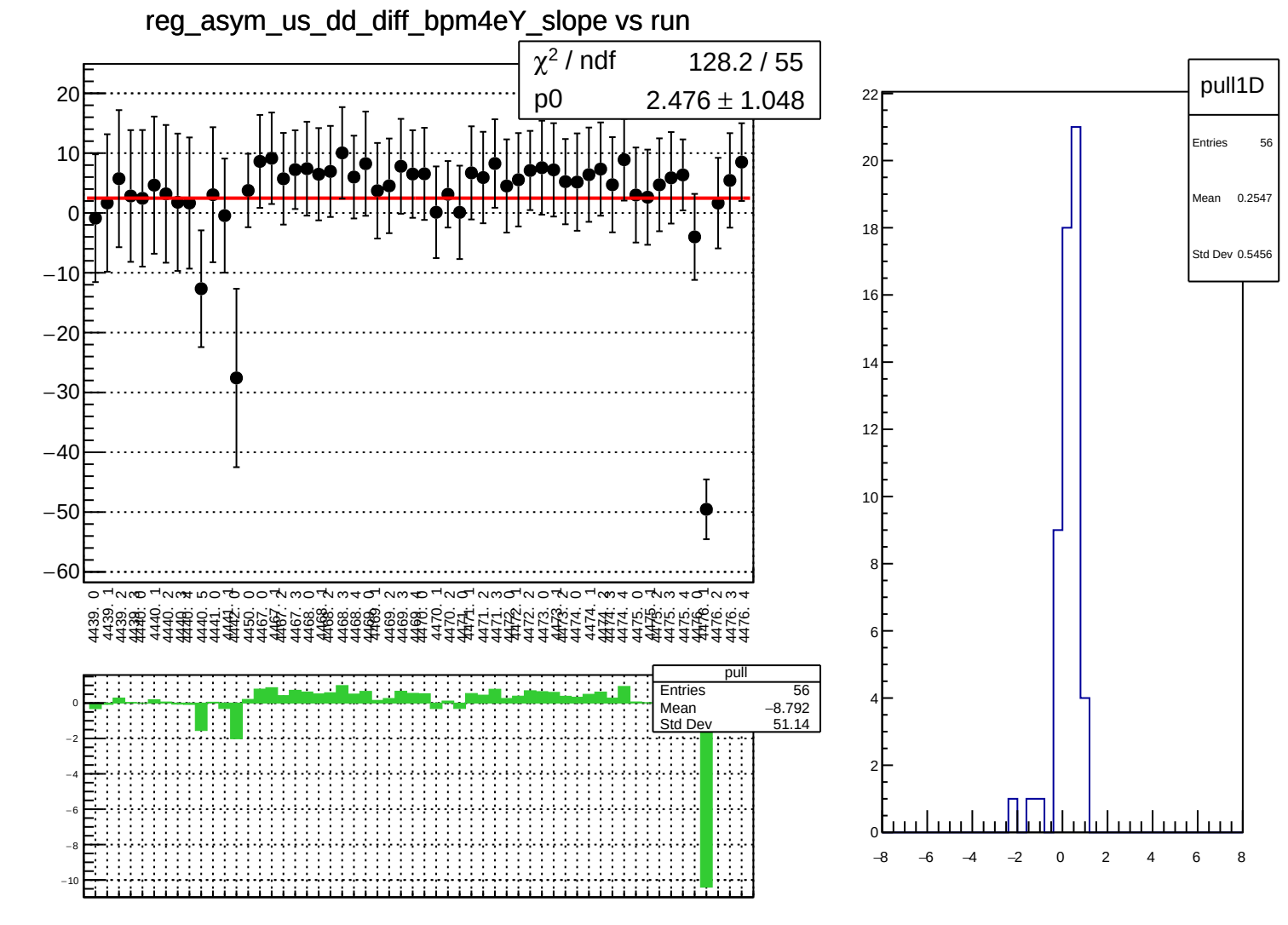

pull1D
Entries 56
Mean −0.002061
Std Dev 1.778

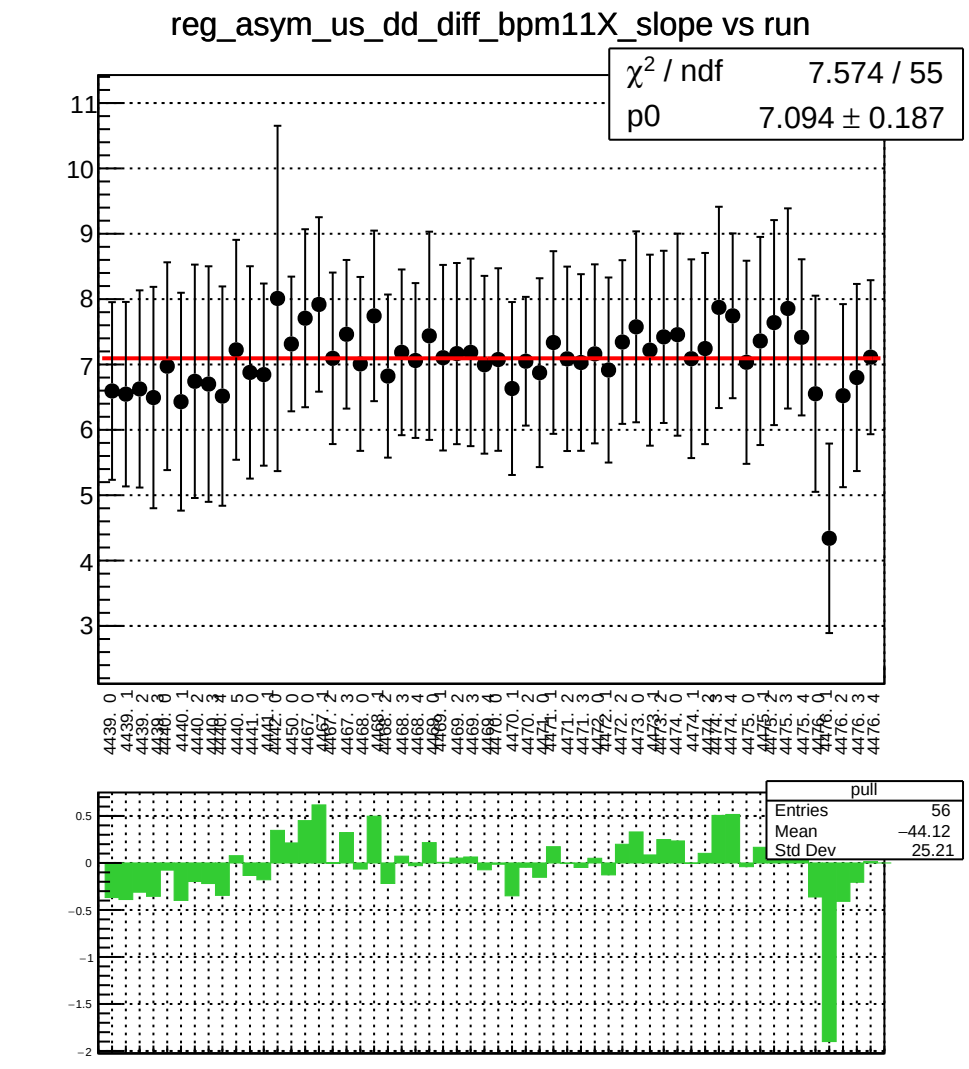

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 11.73 / 55
p0 25.39 ± 0.7845
pull
Entries 56
Mean −42.54
Std Dev 69.59

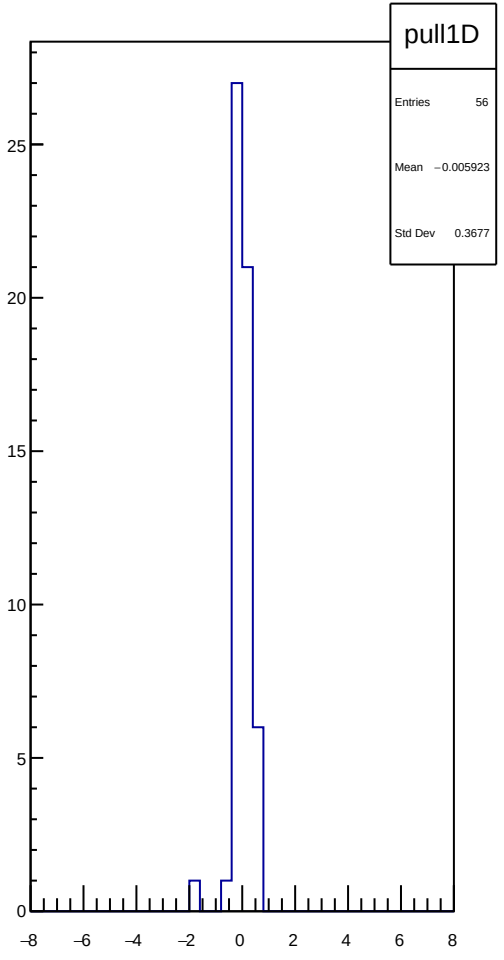

pull1D
Entries 56
Mean 0.04868
Std Dev 0.455

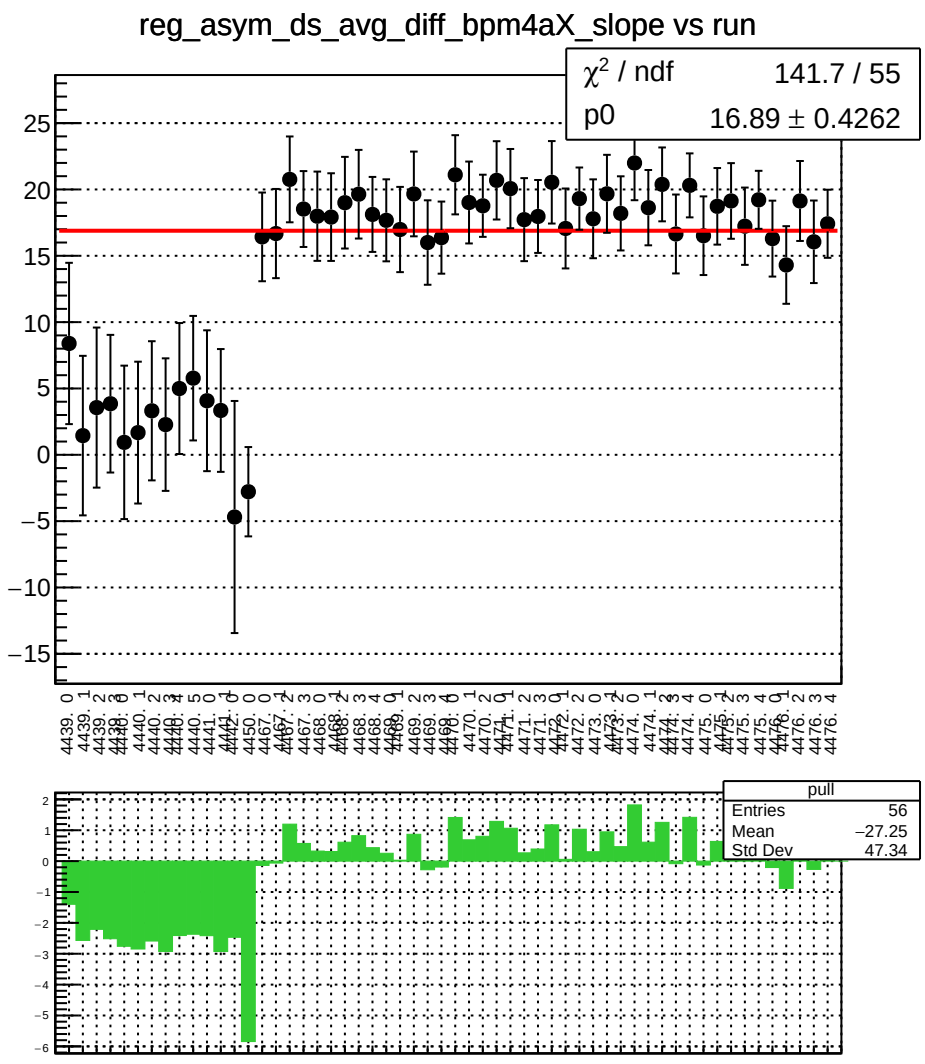

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 108.8 / 55
p0 −2.844 ± 0.897
pull
Entries 56
Mean 18.69
Std Dev 32.01
pull1D
Entries 56
Mean −0.2596
Std Dev 0.5867

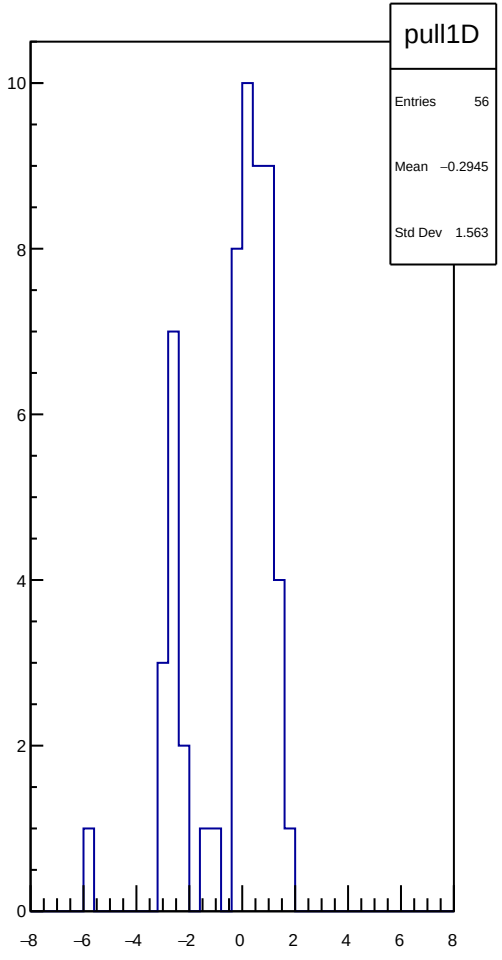

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.852 / 55
p0 −48.28 ± 0.1398
pull
Entries 56
Mean −79.05
Std Dev 105.1
pull1D
Entries 56
Mean −0.02082
Std Dev 0.3739

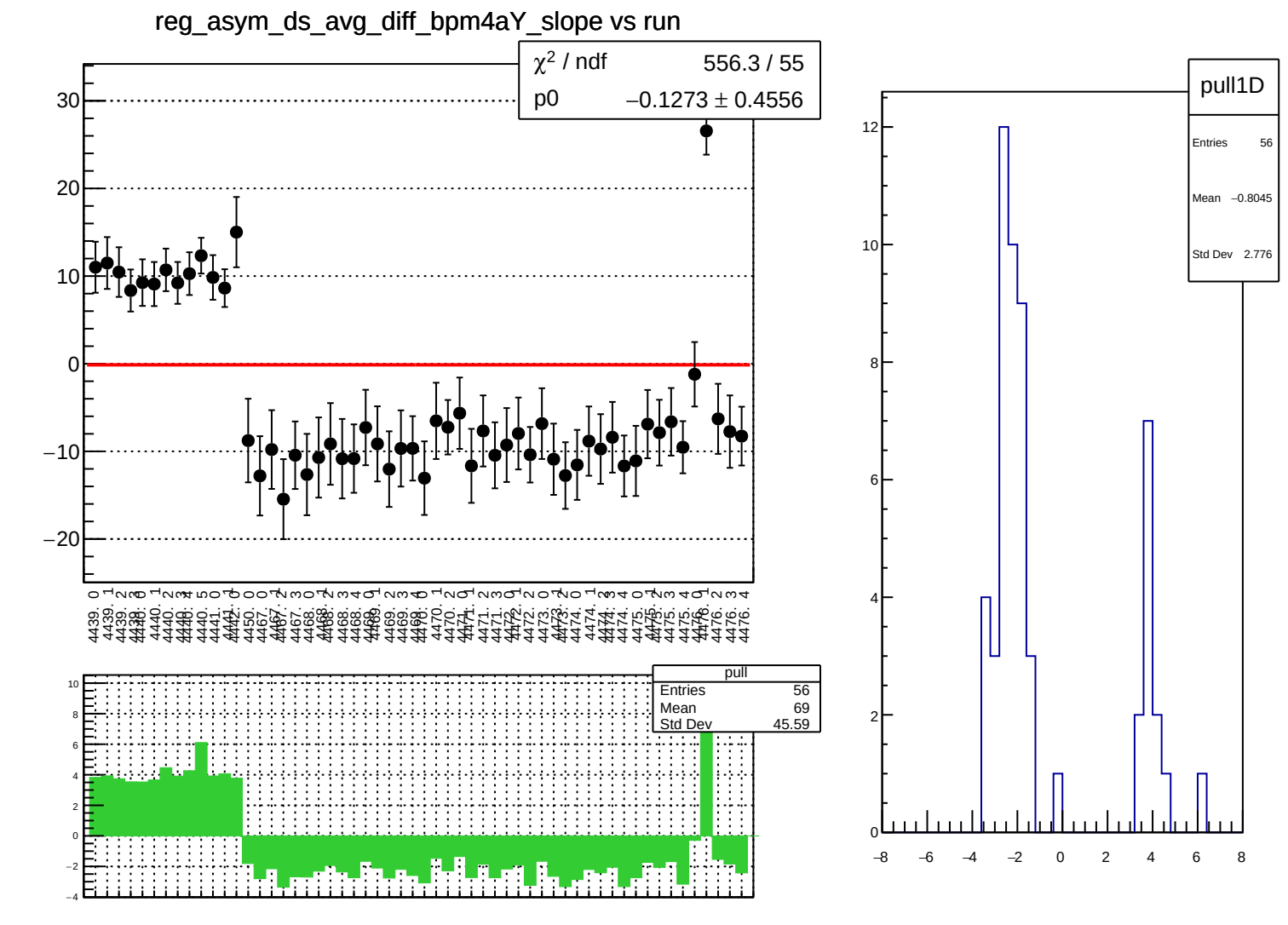

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 128.2 / 55
p0 2.476 ± 1.048
pull
Entries 56
Mean −8.792
Std Dev 51.14
pull1D
Entries 56
Mean 0.2547
Std Dev 0.5456


reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 7.574 / 55
p0 7.094 ± 0.187
pull
Entries 56
Mean −44.12
Std Dev 25.21

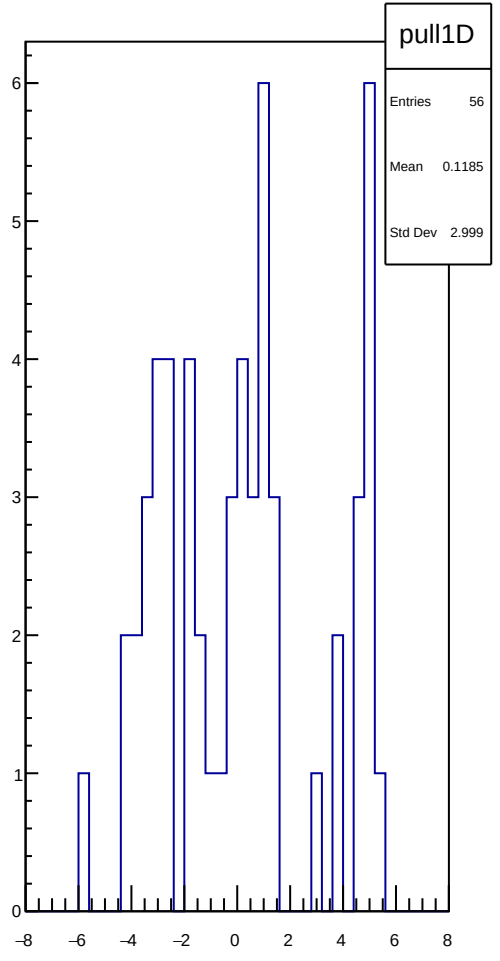

pull1D
Entries 56
Mean −0.005923
Std Dev 0.3677

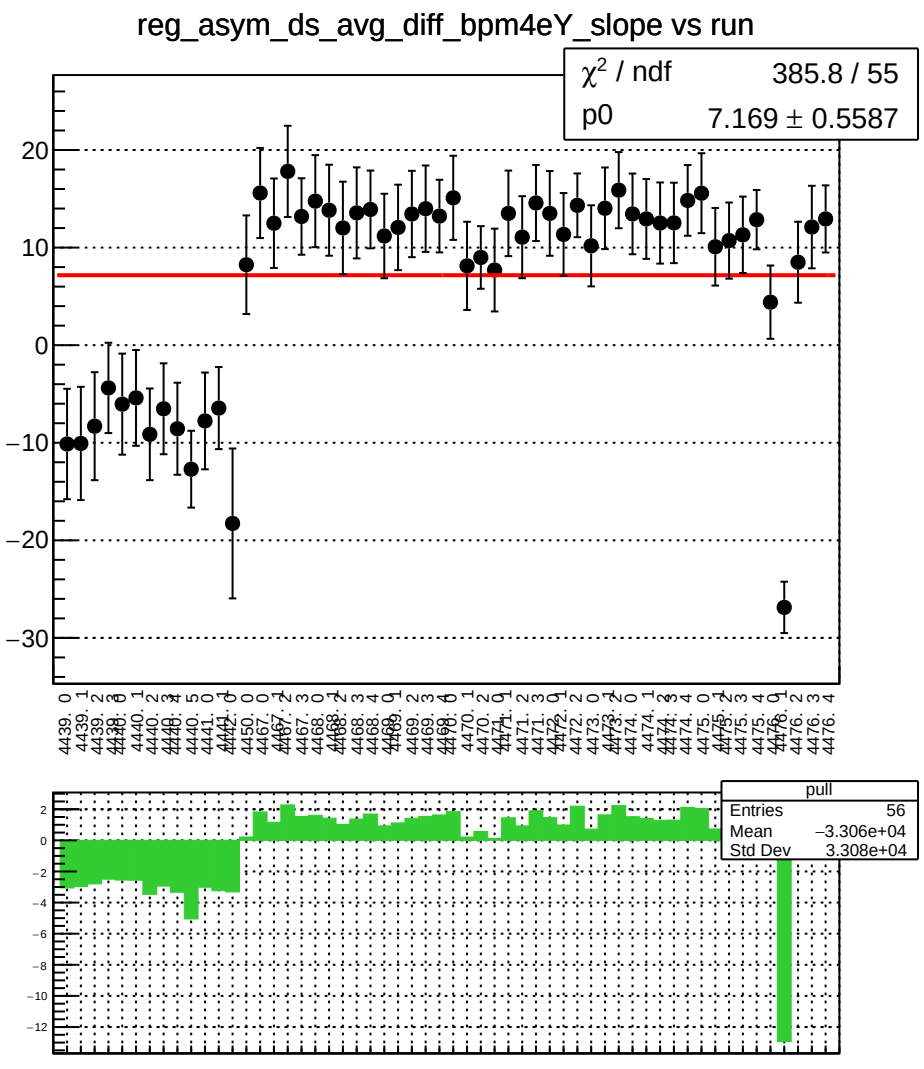

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 141.7 / 55
p0 16.89 ± 0.4262
pull
Entries 56
Mean −27.25
Std Dev 47.34

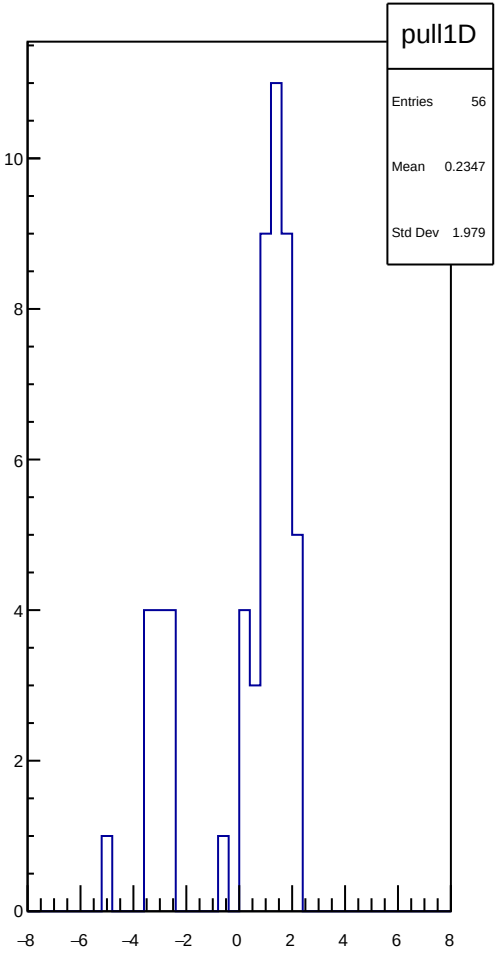

pull1D
Entries 56
Mean −0.2945
Std Dev 1.563

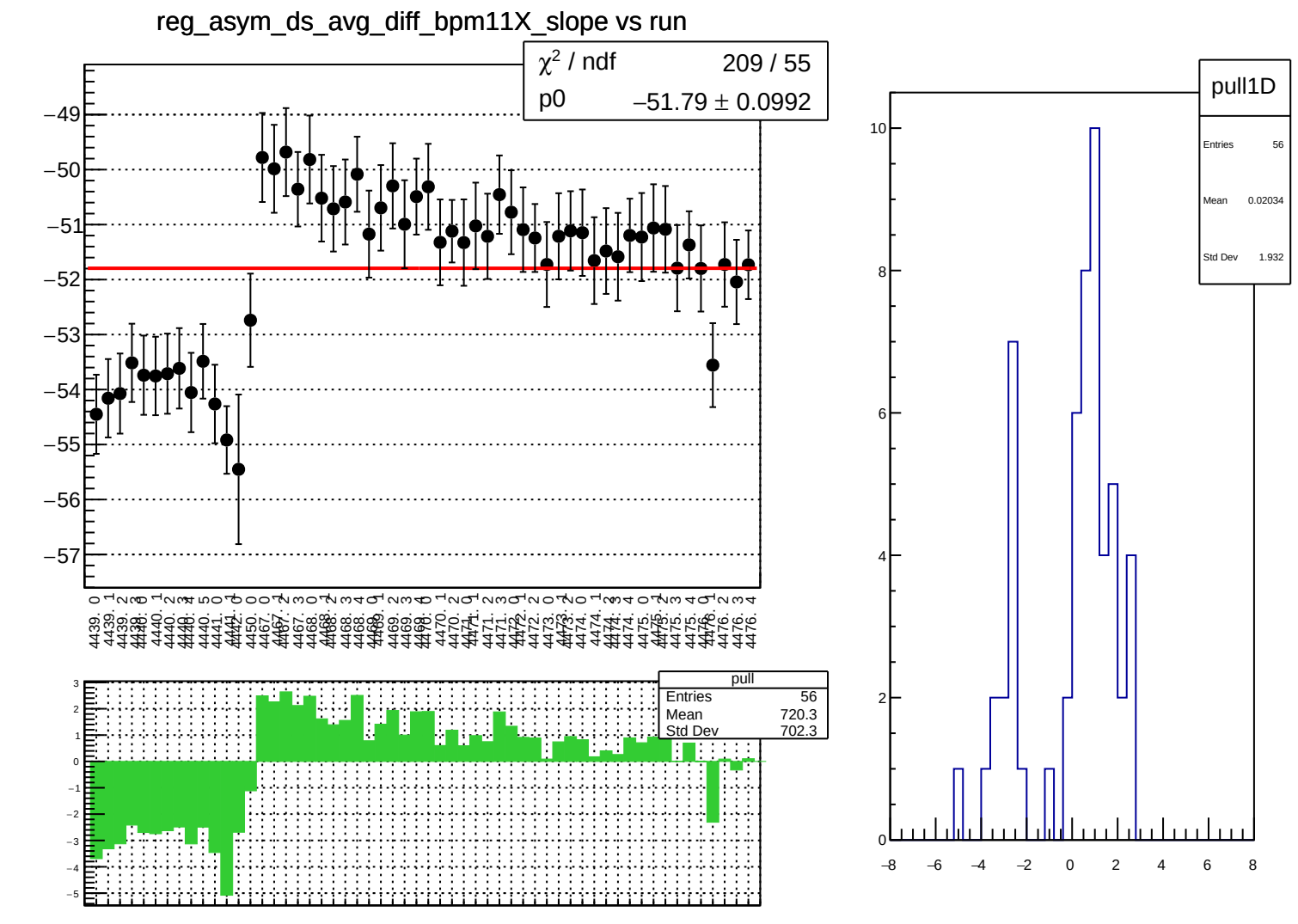

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 556.3 / 55
p0 −0.1273 ± 0.4556
pull
Entries 56
Mean 69
Std Dev 45.59
pull1D
Entries 56
Mean −0.8045
Std Dev 2.776

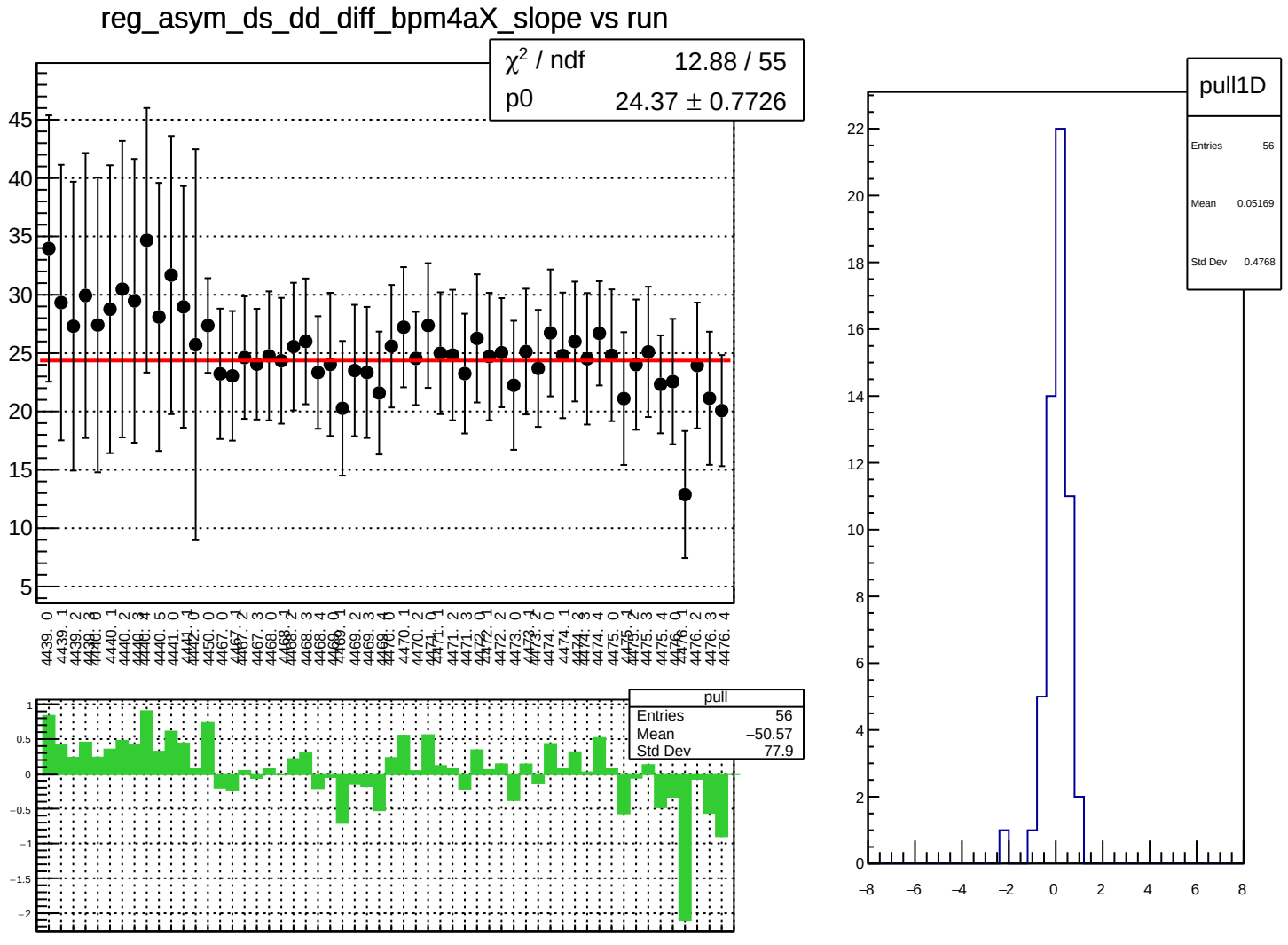
reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 504.5 / 55
p0 −28.35 ± 0.07442
pull
Entries 56
Mean −342.2
Std Dev 368.8

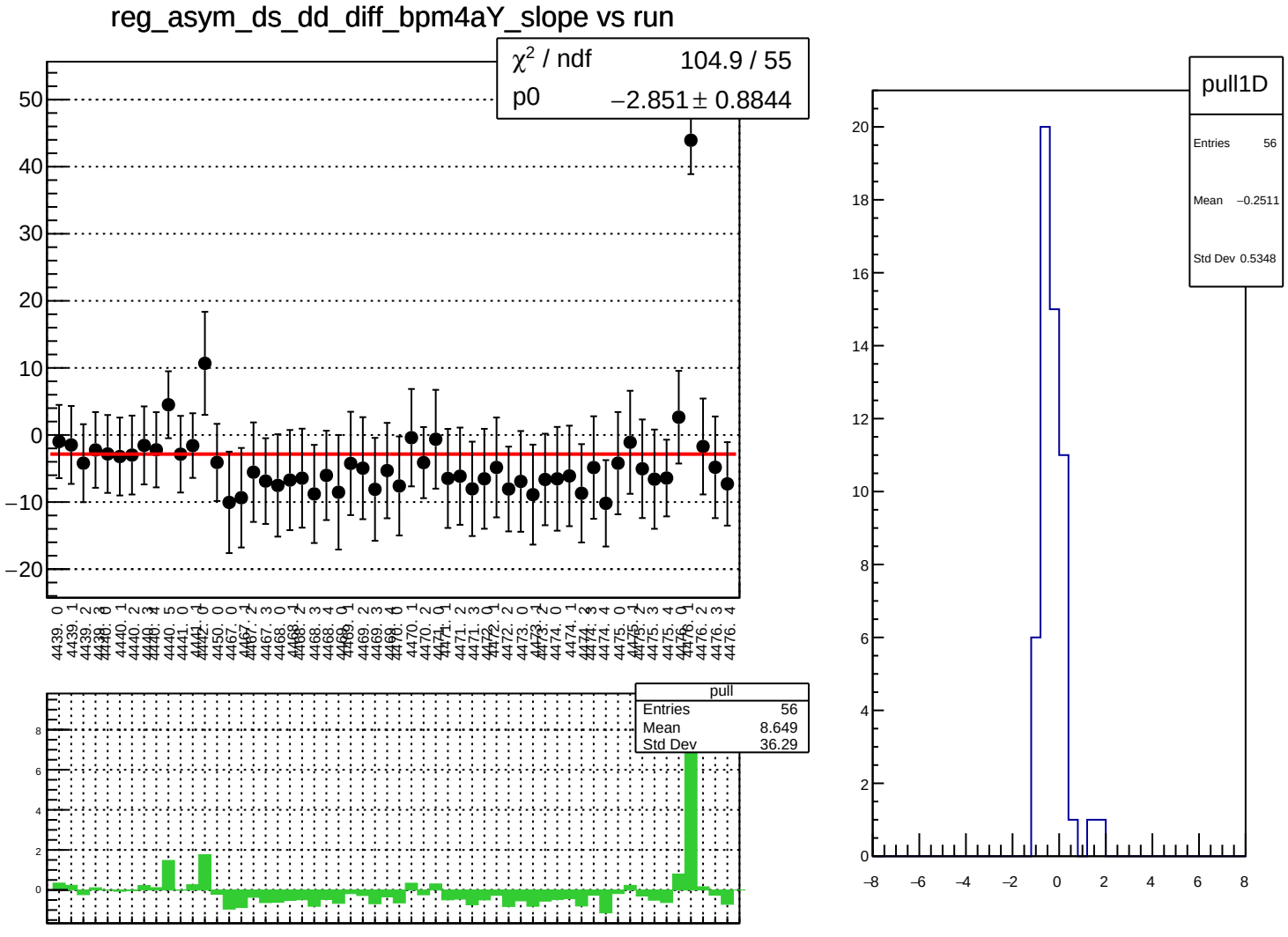

pull1D
Entries 56
Mean 0.1185
Std Dev 2.999

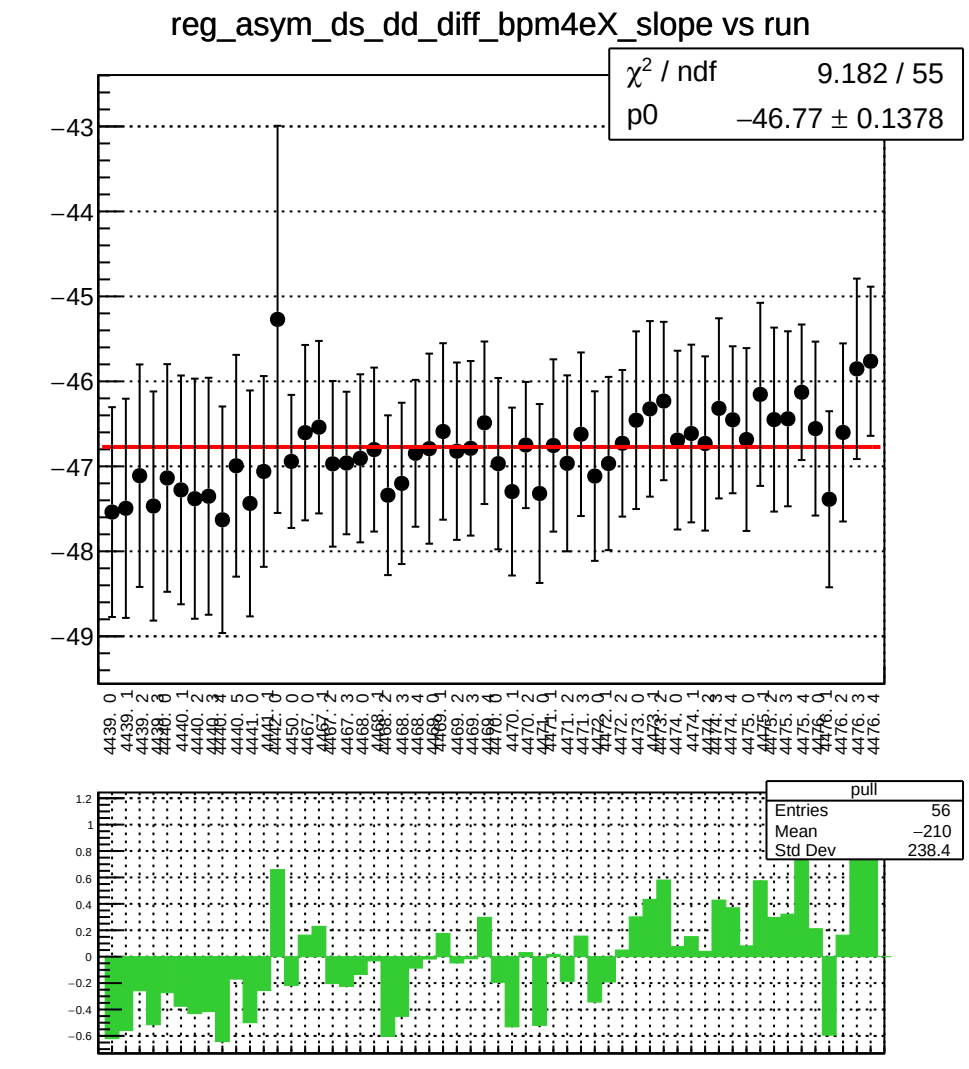

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 385.8 / 55
p0 7.169 ± 0.5587
pull
Entries 56
Mean −3.306e+04
Std Dev 3.308e+04

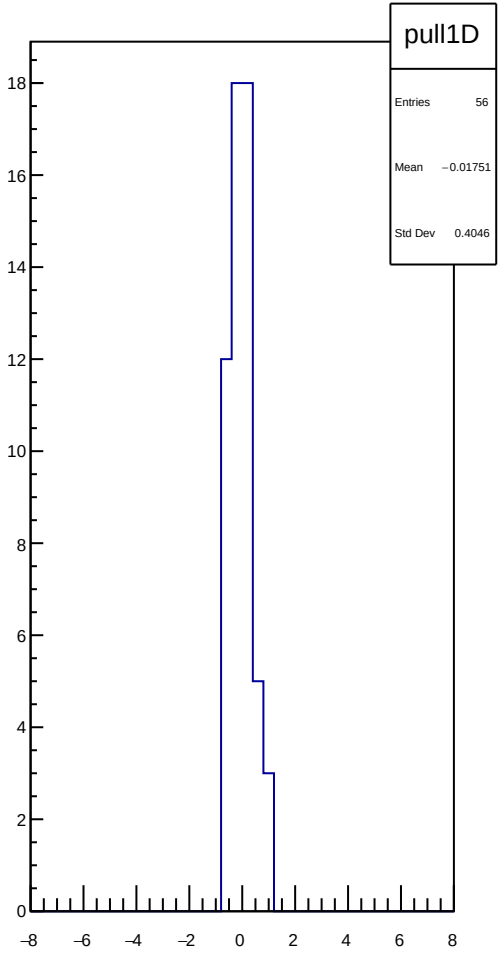

pull1D
Entries 56
Mean 0.2347
Std Dev 1.979

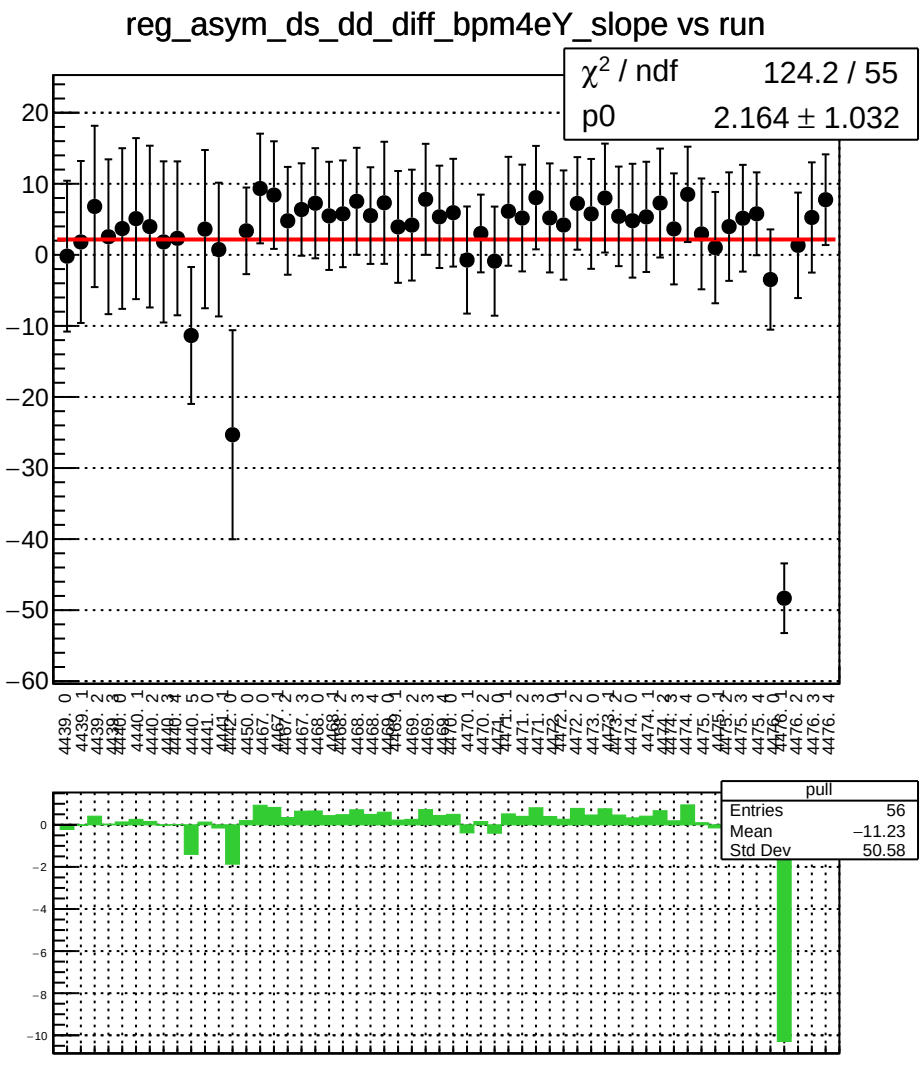

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 209 / 55
p0 −51.79 ± 0.0992
pull
Entries 56
Mean 720.3
Std Dev 702.3
pull1D
Entries 56
Mean 0.02034
Std Dev 1.932

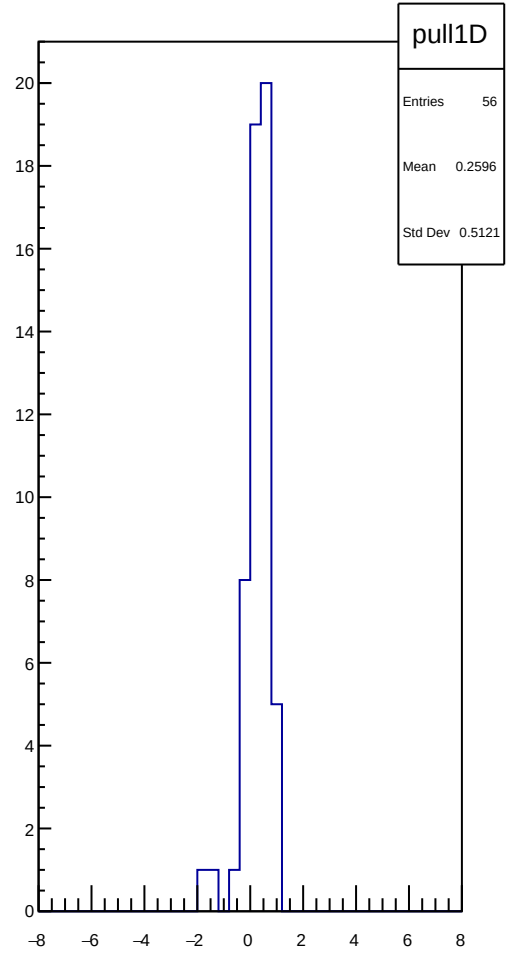

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 12.88 / 55
p0 24.37 ± 0.7726
pull
Entries 56
Mean −50.57
Std Dev 77.9
pull1D
Entries 56
Mean 0.05169
Std Dev 0.4768

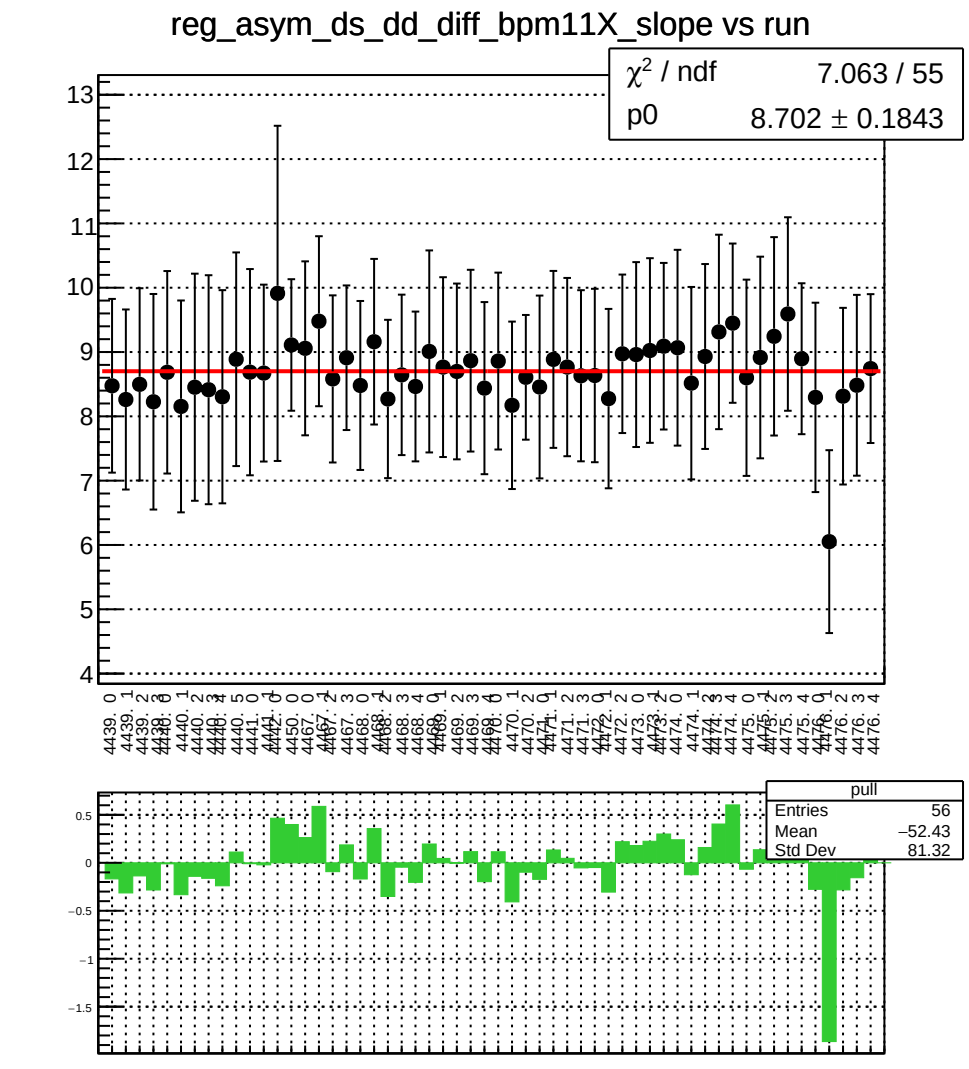

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 104.9 / 55
p0 −2.851 ± 0.8844
pull
Entries 56
Mean 8.649
Std Dev 36.29
pull1D
Entries 56
Mean −0.2511
Std Dev 0.5348

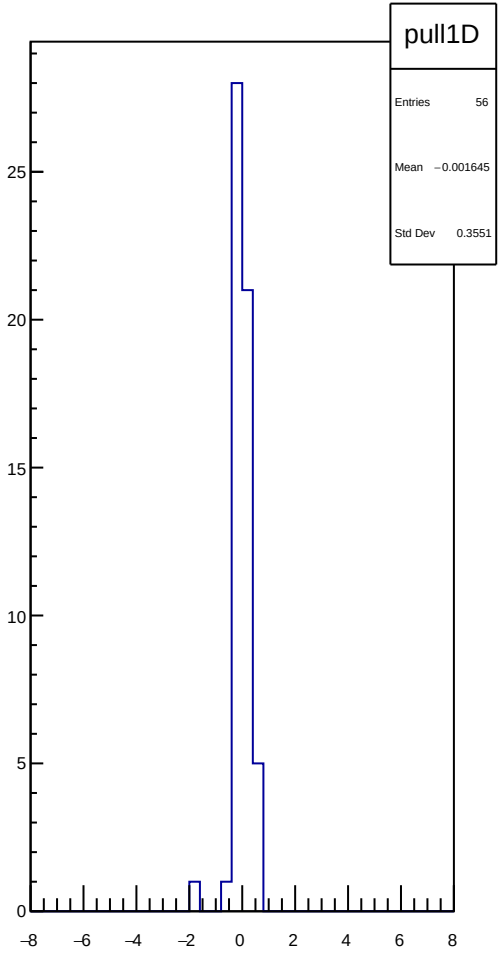

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.182 / 55
p0 −46.77 ± 0.1378
pull
Entries 56
Mean −210
Std Dev 238.4

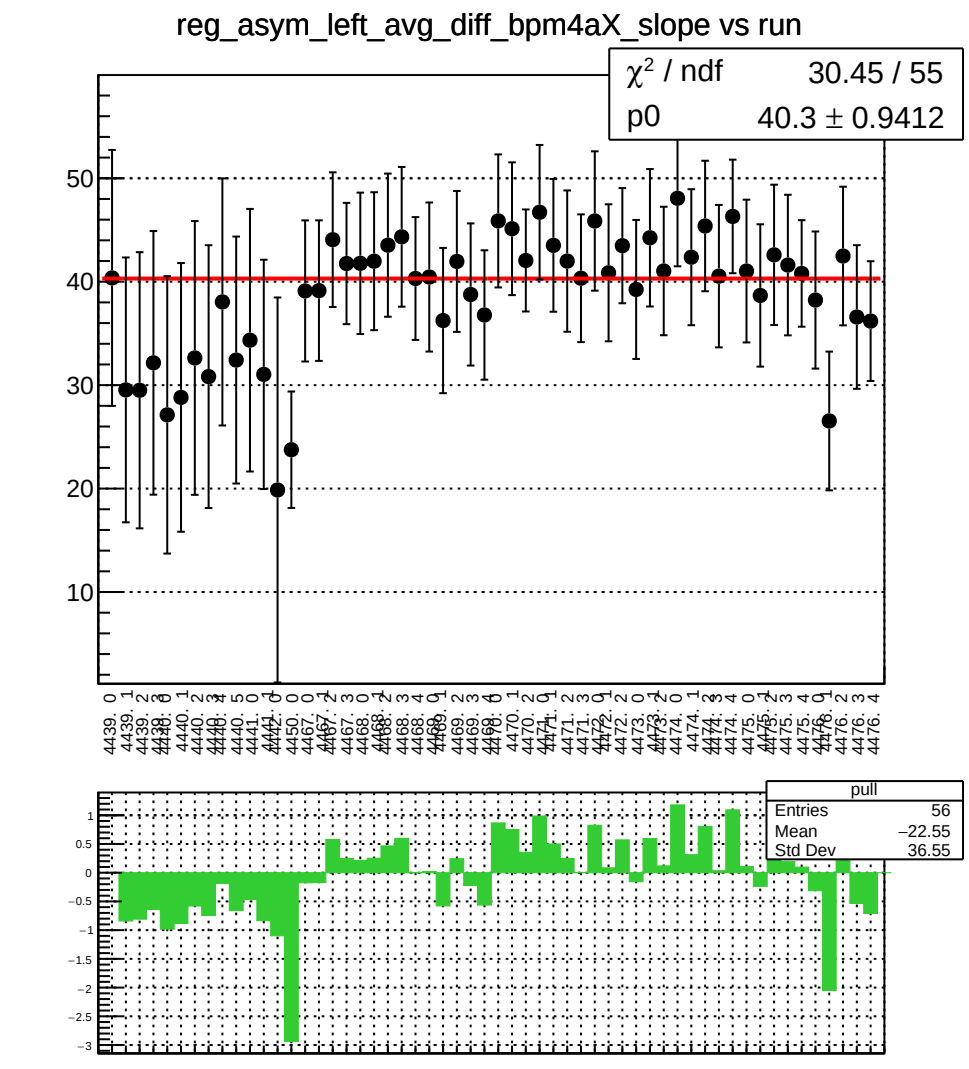

pull1D
Entries 56
Mean −0.01751
Std Dev 0.4046

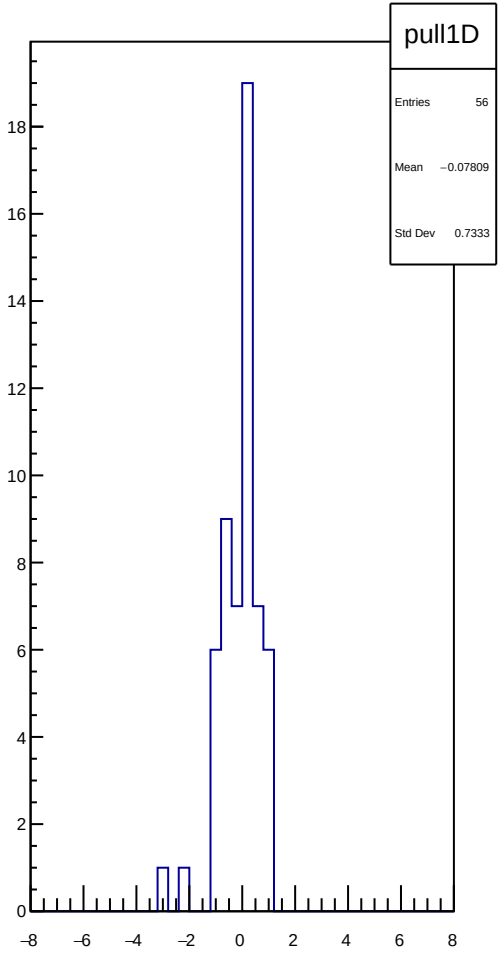

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 124.2 / 55
p0 2.164 ± 1.032
pull
Entries 56
Mean −11.23
Std Dev 50.58

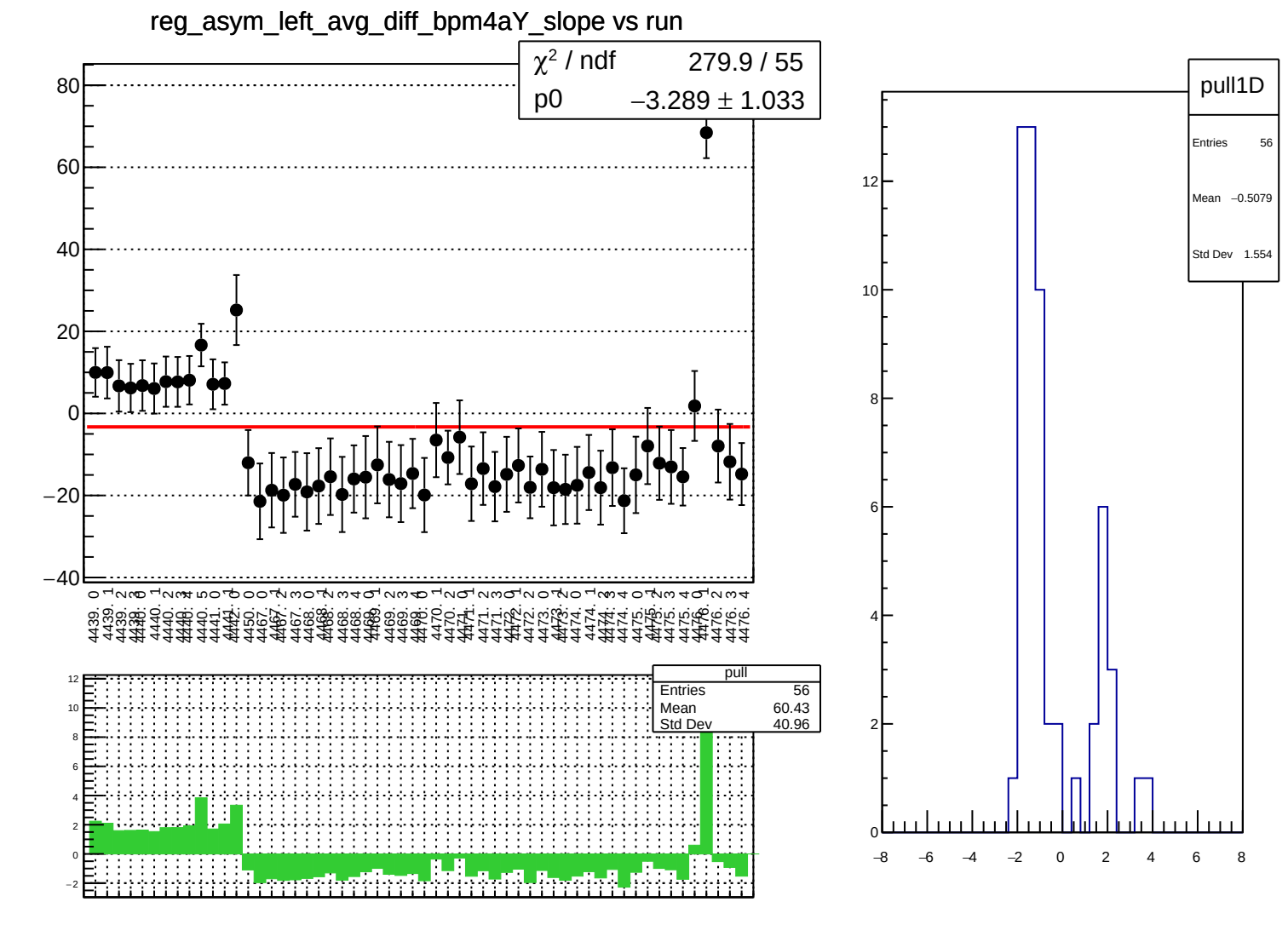

pull1D
Entries 56
Mean 0.2596
Std Dev 0.5121

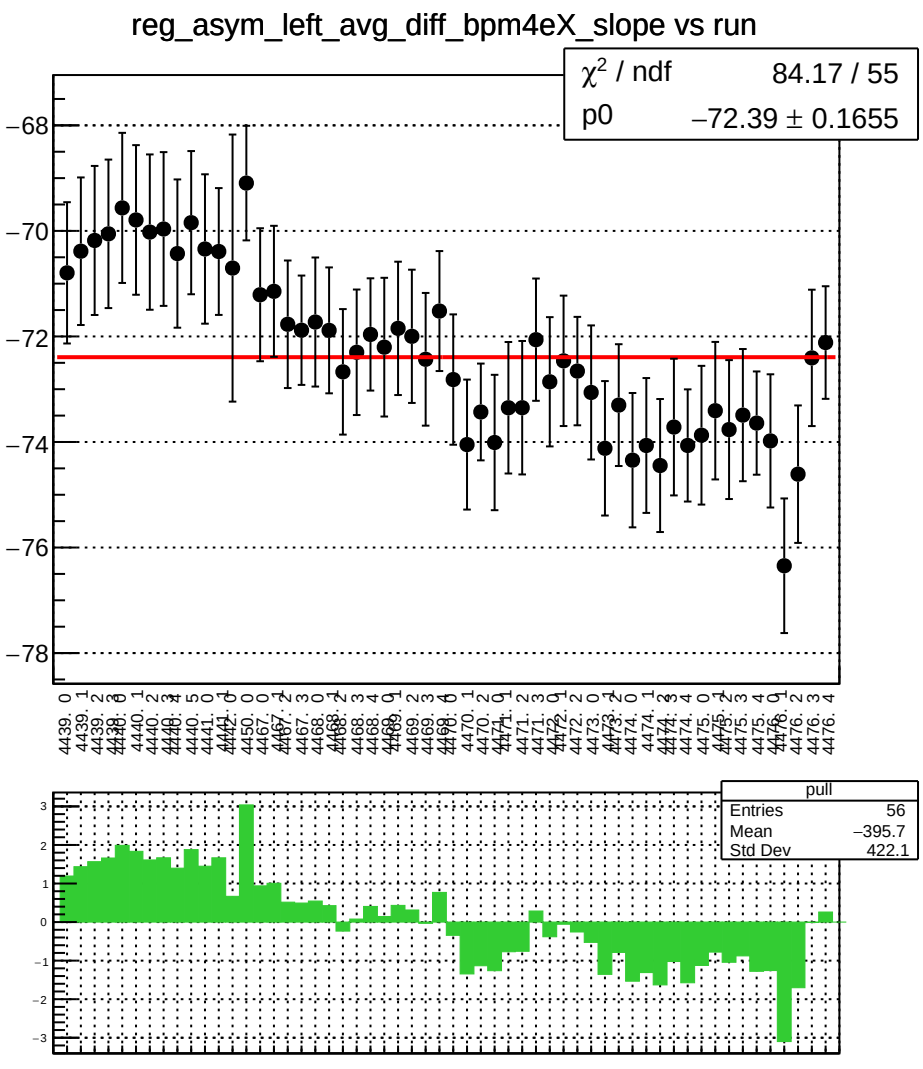

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 7.063 / 55
p0 8.702 ± 0.1843
pull
Entries 56
Mean −52.43
Std Dev 81.32

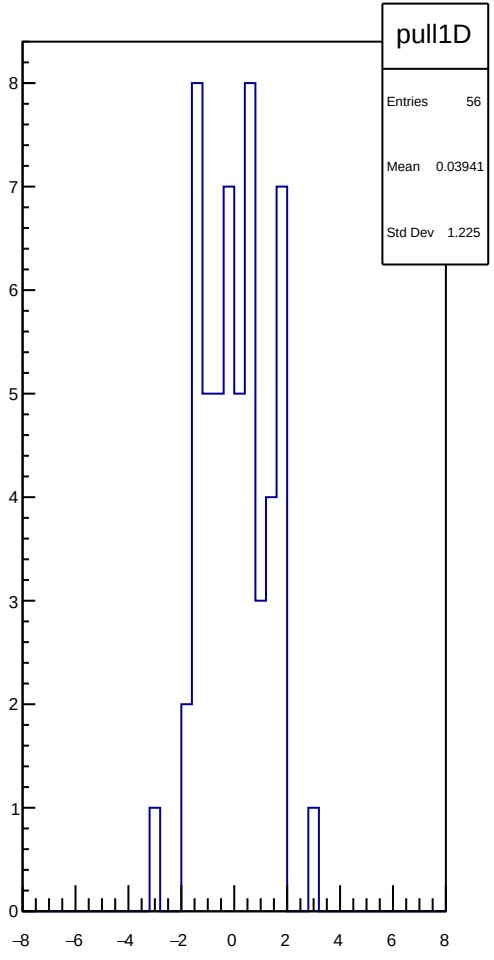

pull1D
Entries 56
Mean −0.001645
Std Dev 0.3551

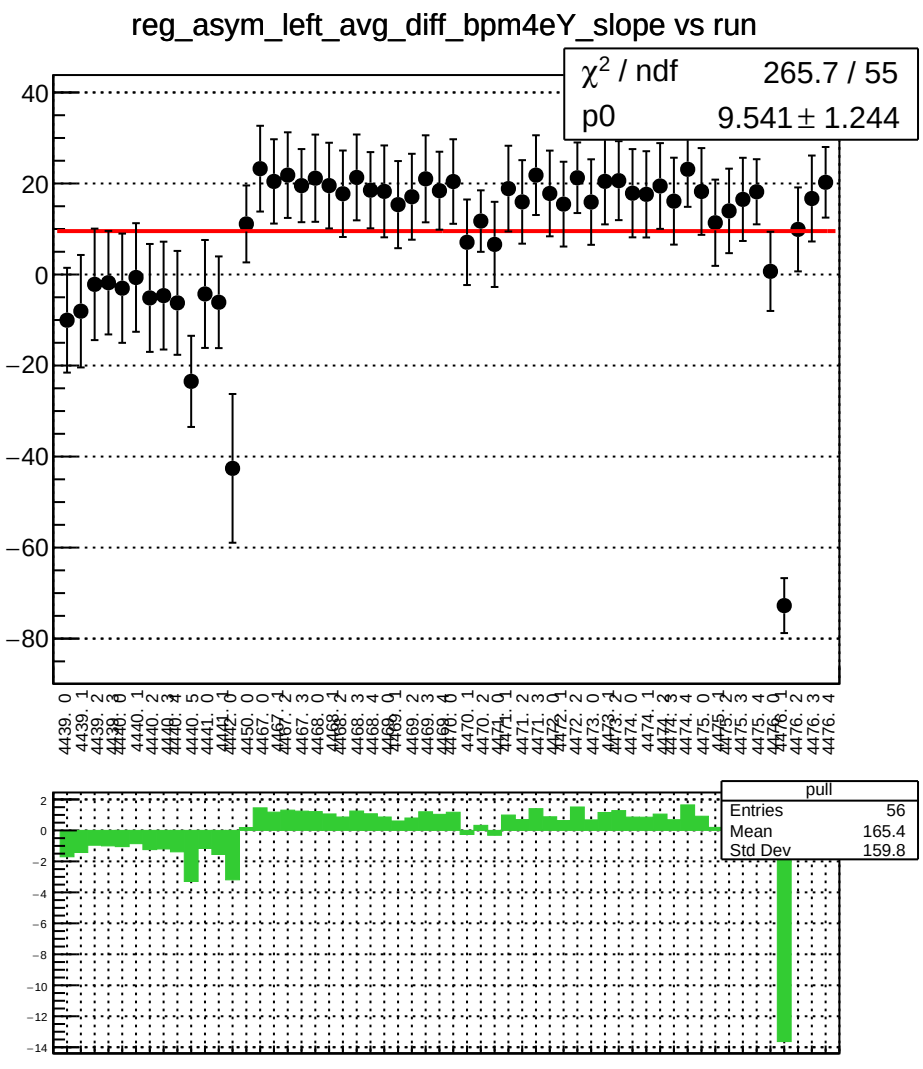

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 30.45 / 55
p0 40.3 ± 0.9412
pull
Entries 56
Mean −22.55
Std Dev 36.55

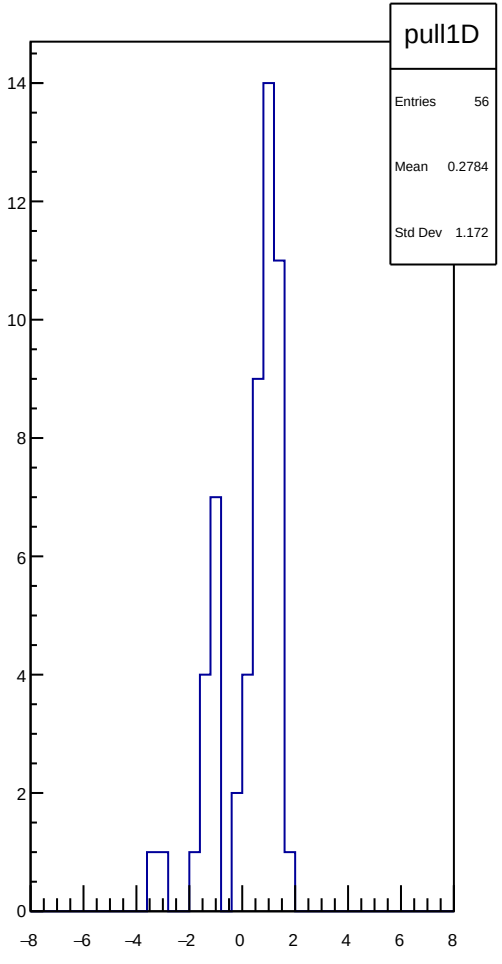

pull1D
Entries 56
Mean −0.07809
Std Dev 0.7333

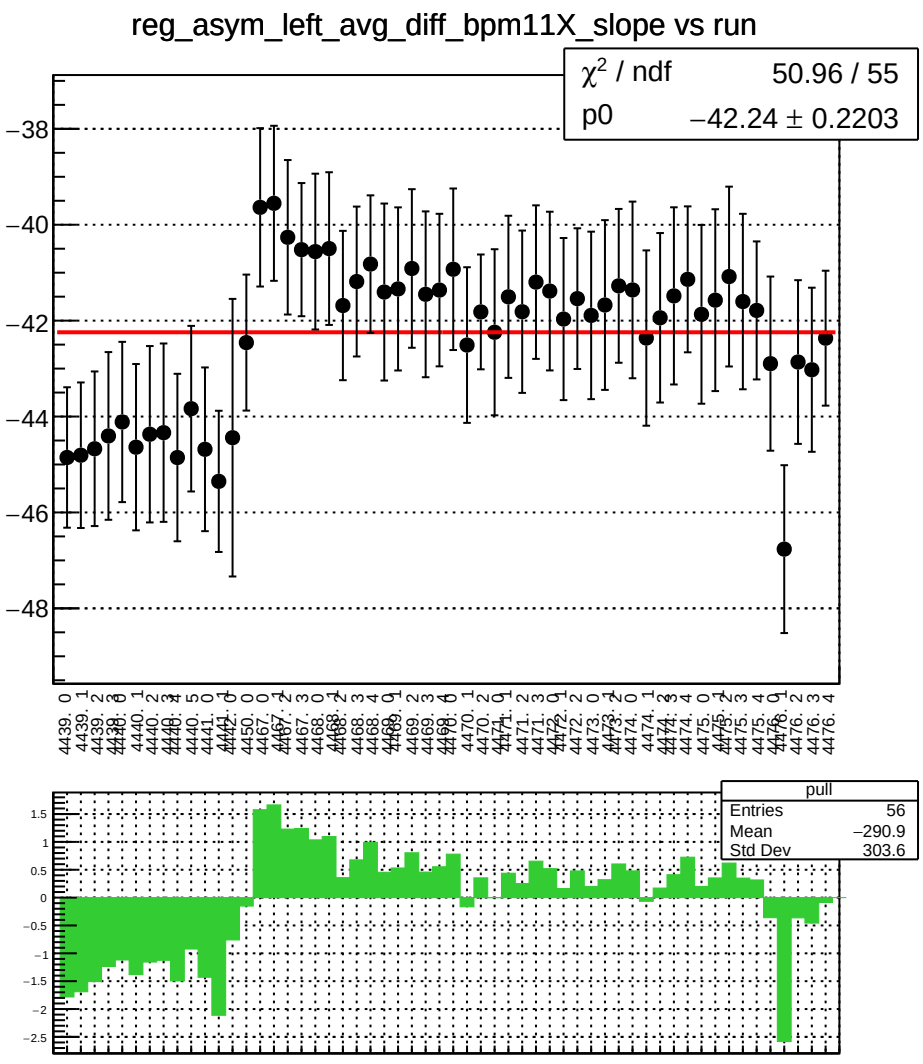

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 279.9 / 55
p0 −3.289 ± 1.033
pull
Entries 56
Mean 60.43
Std Dev 40.96
pull1D
Entries 56
Mean −0.5079
Std Dev 1.554

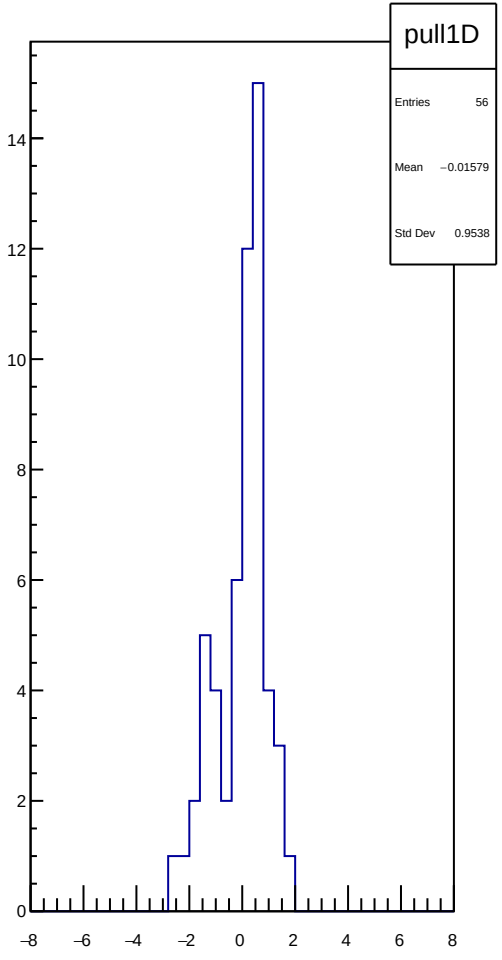

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.17 / 55
p0 −72.39 ± 0.1655
pull
Entries 56
Mean −395.7
Std Dev 422.1

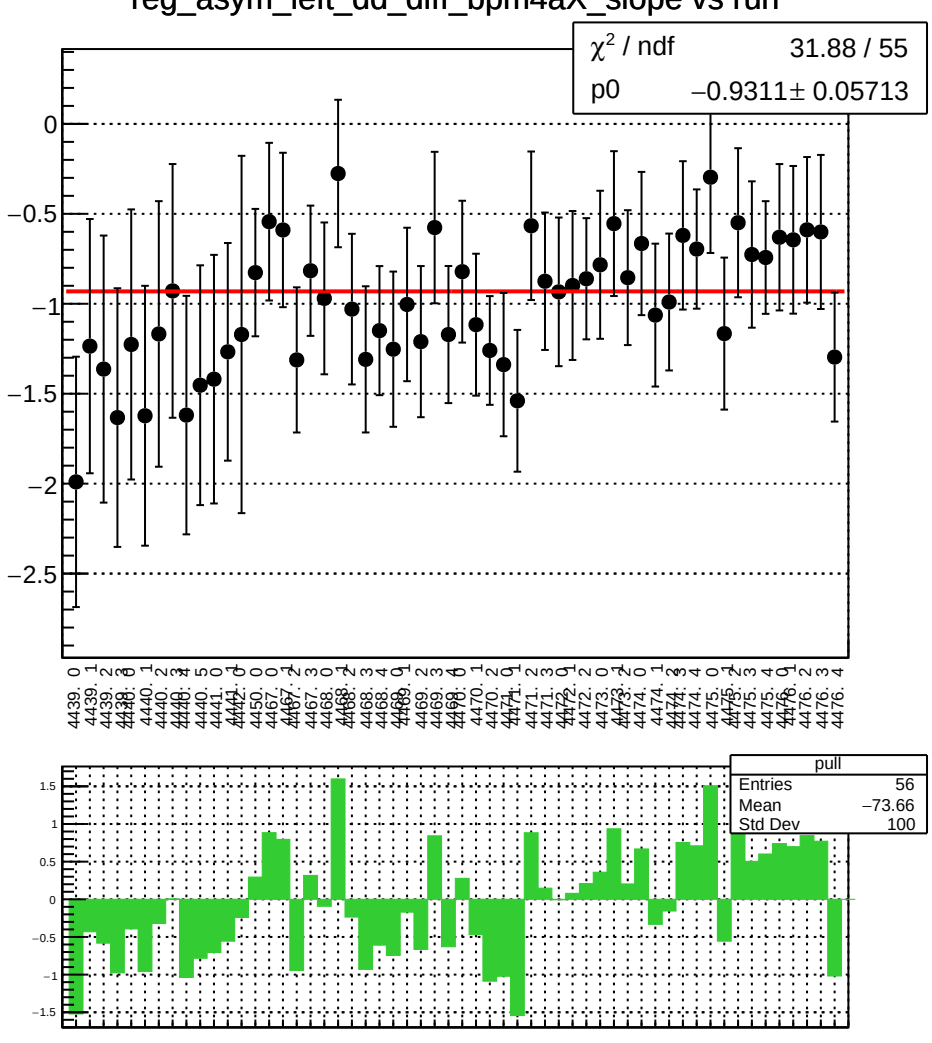

pull1D
Entries 56
Mean 0.03941
Std Dev 1.225

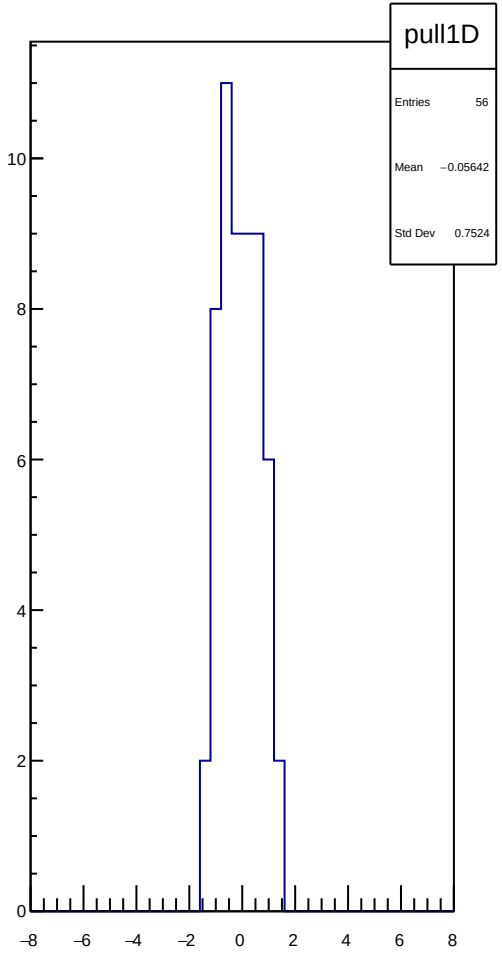

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 265.7 / 55
p0 9.541 ± 1.244
pull
Entries 56
Mean 165.4
Std Dev 159.8

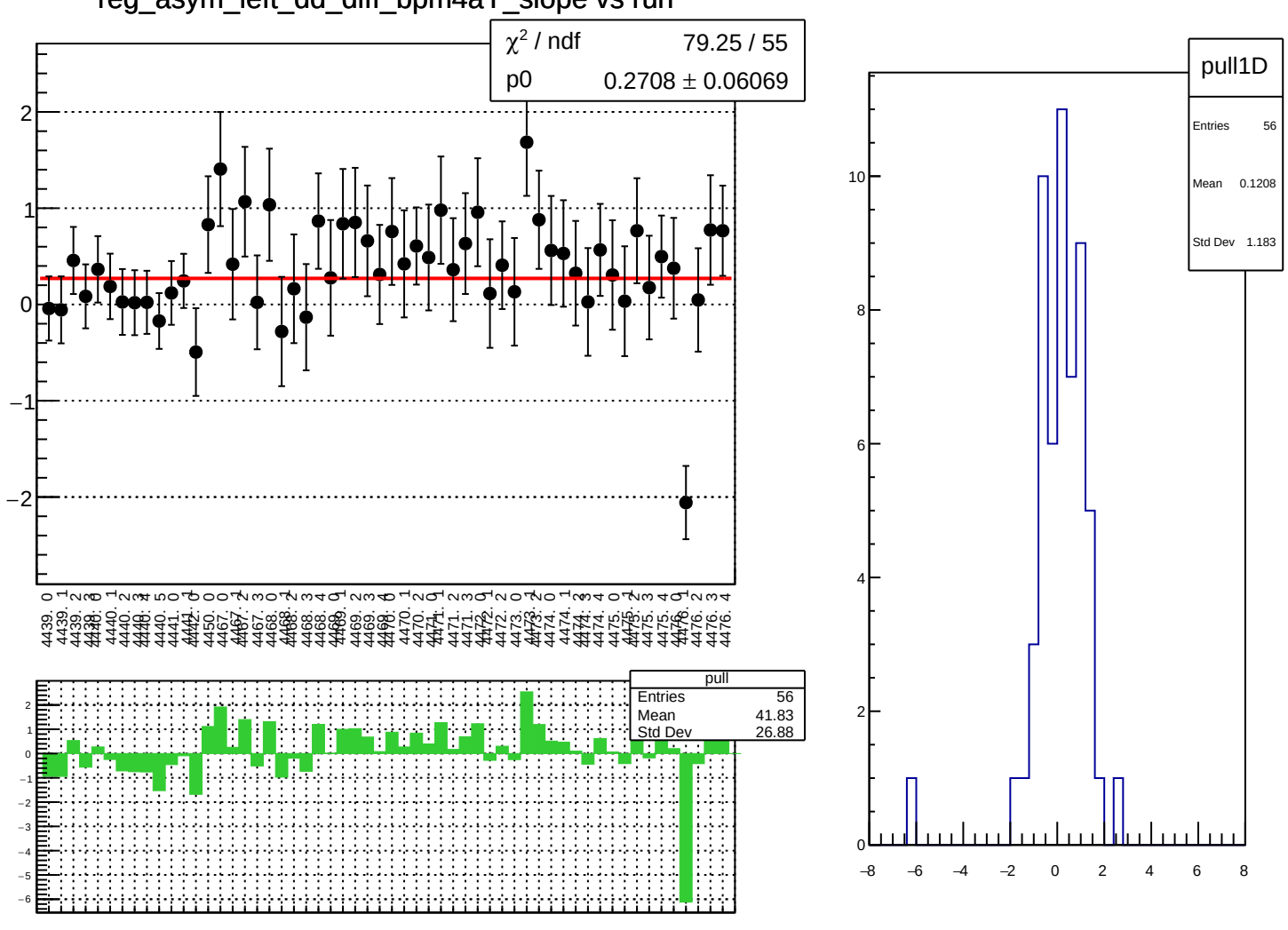

pull1D
Entries 56
Mean 0.2784
Std Dev 1.172

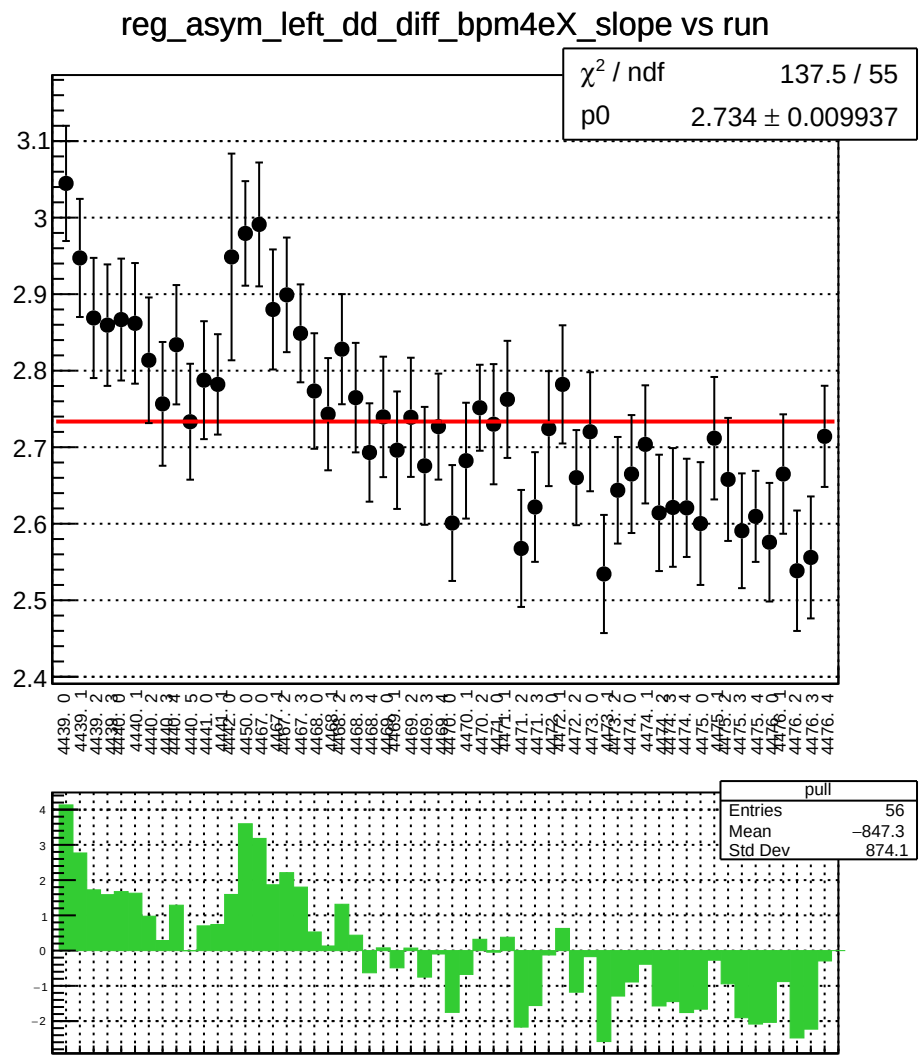

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 50.96 / 55
p0 −42.24 ± 0.2203
pull
Entries 56
Mean −290.9
Std Dev 303.6

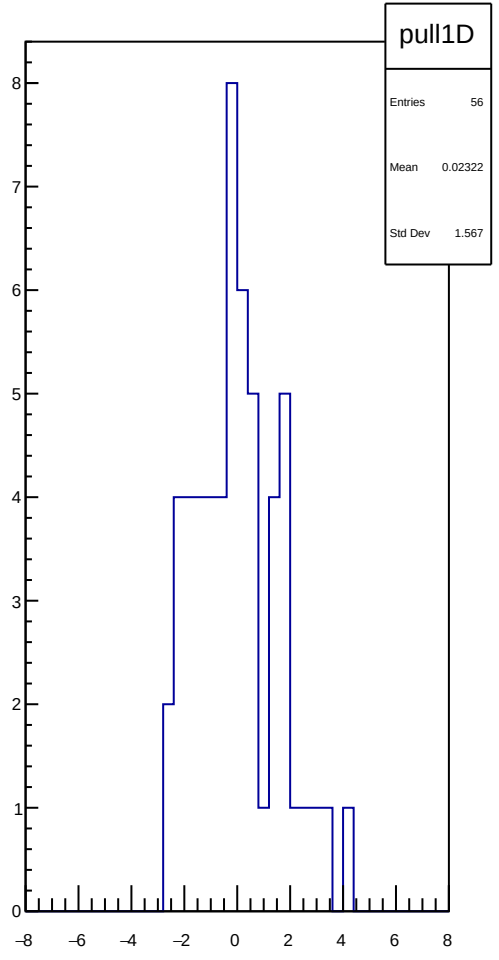

pull1D
Entries 56
Mean −0.01579
Std Dev 0.9538

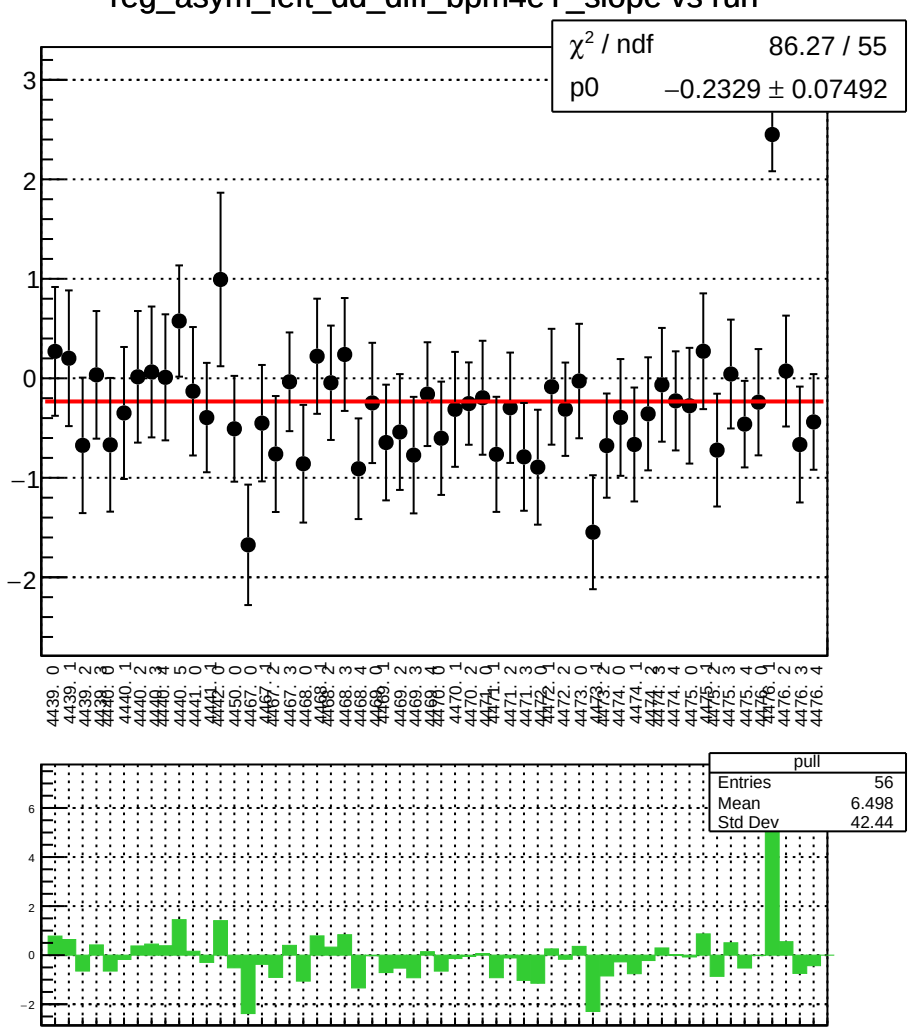

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 31.88 / 55
p0 −0.9311± 0.05713
pull
Entries 56
Mean −73.66
Std Dev 100

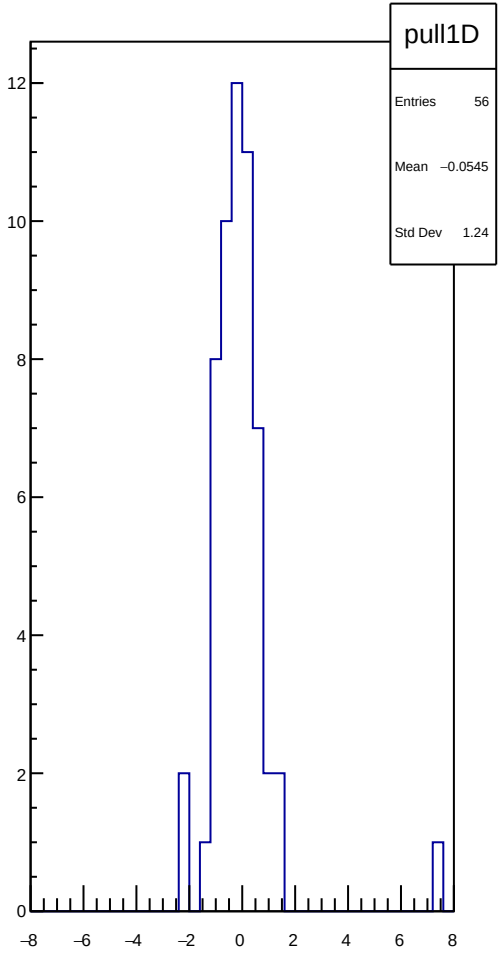

pull1D
Entries 56
Mean −0.05642
Std Dev 0.7524

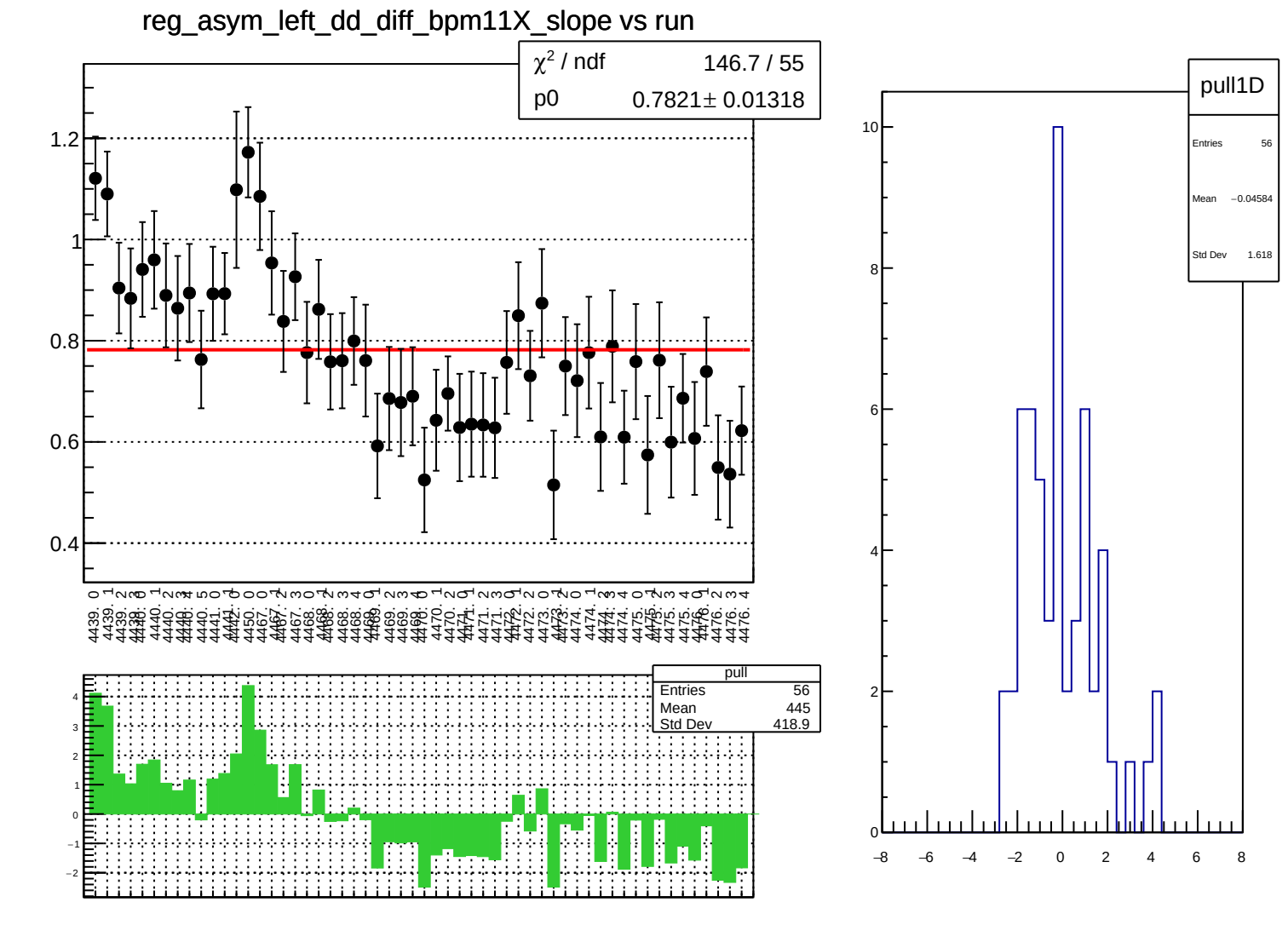

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.25 / 55
p0 0.2708 ± 0.06069
pull
Entries 56
Mean 41.83
Std Dev 26.88
pull1D
Entries 56
Mean 0.1208
Std Dev 1.183

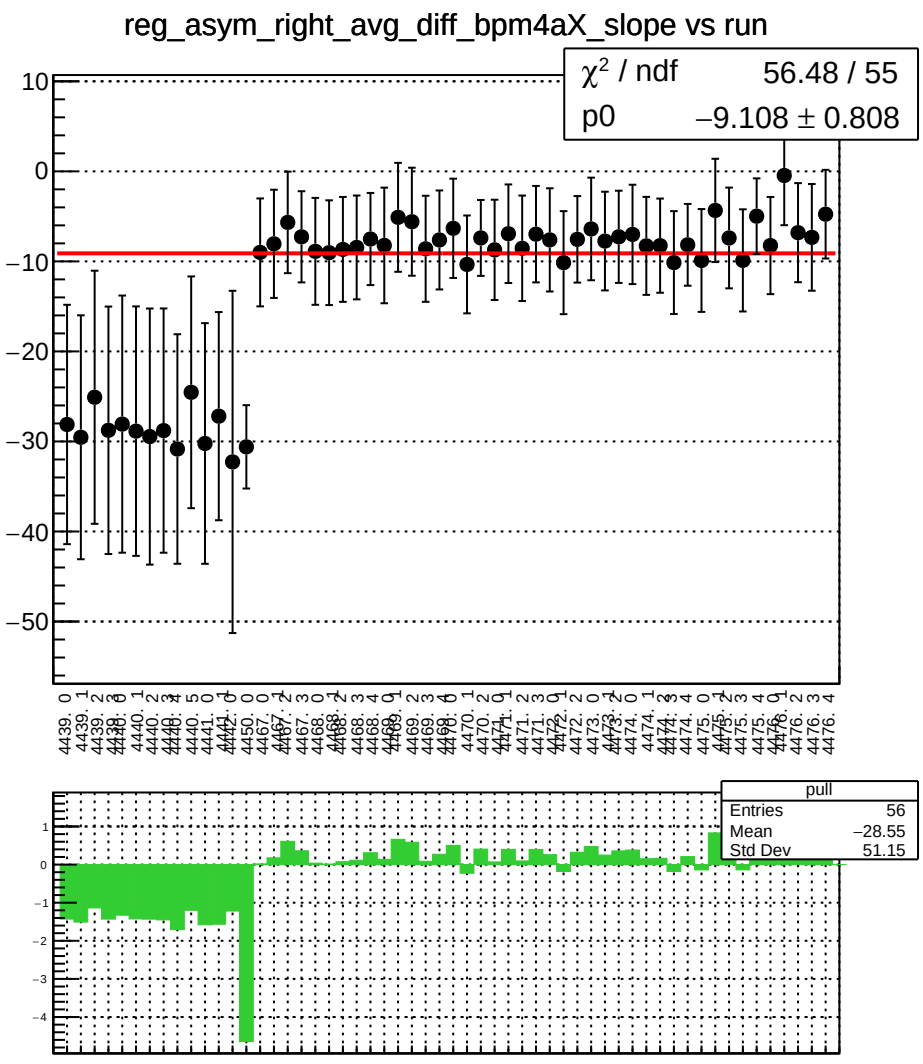

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 137.5 / 55
p0 2.734 ± 0.009937
pull
Entries 56
Mean −847.3
Std Dev 874.1

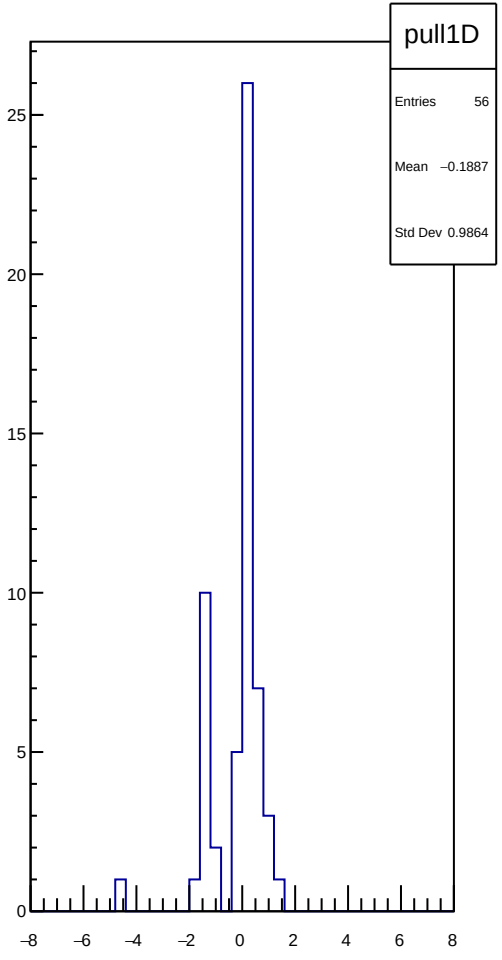

pull1D
Entries 56
Mean 0.02322
Std Dev 1.567

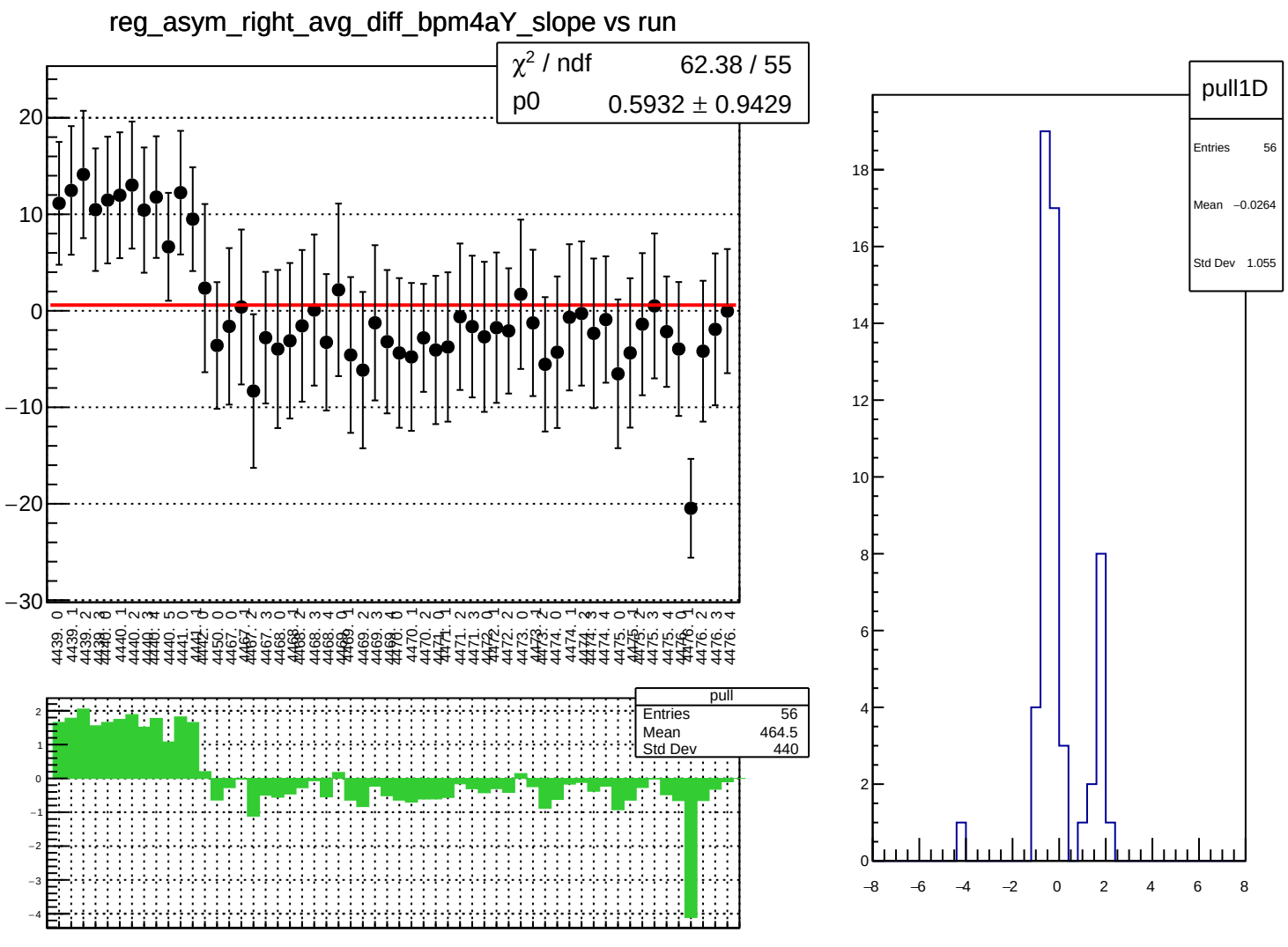

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 86.27 / 55
p0 −0.2329 ± 0.07492
pull
Entries 56
Mean 6.498
Std Dev 42.44

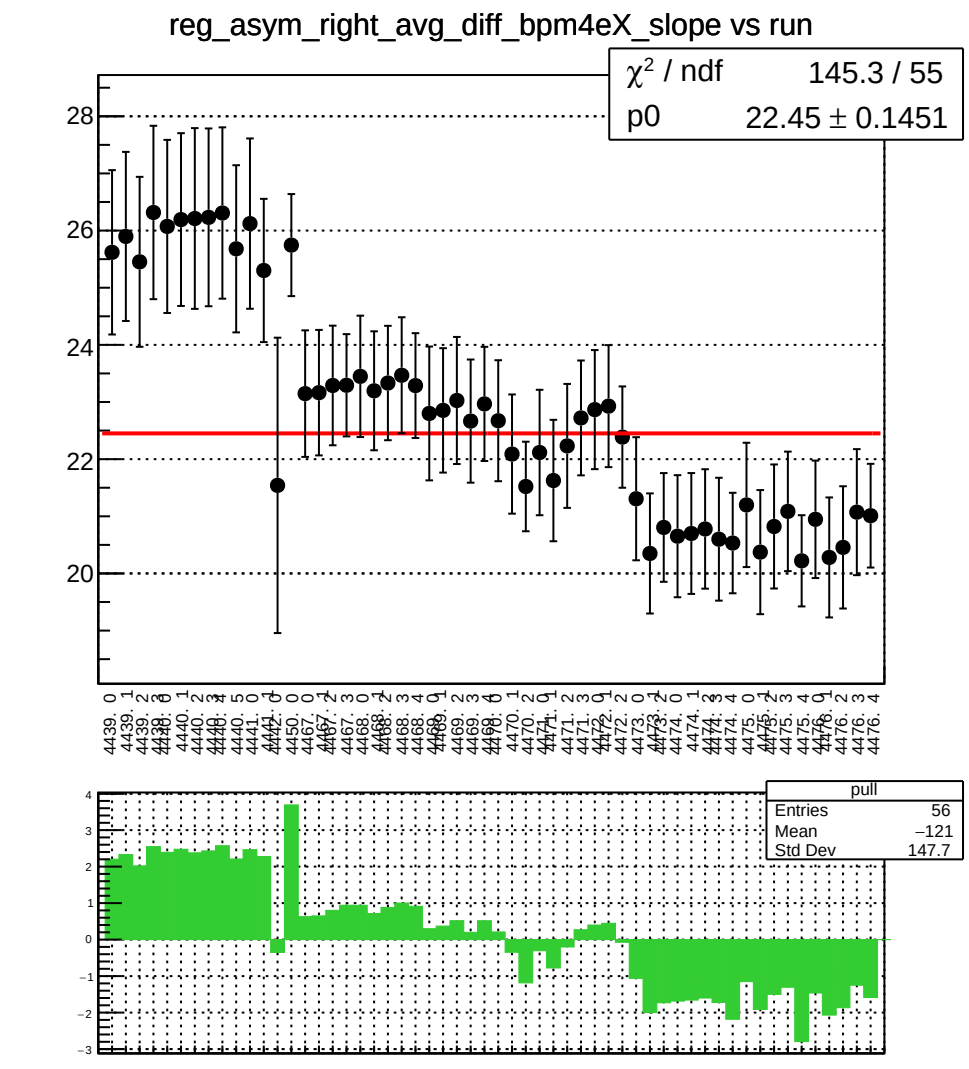

pull1D
Entries 56
Mean −0.0545
Std Dev 1.24

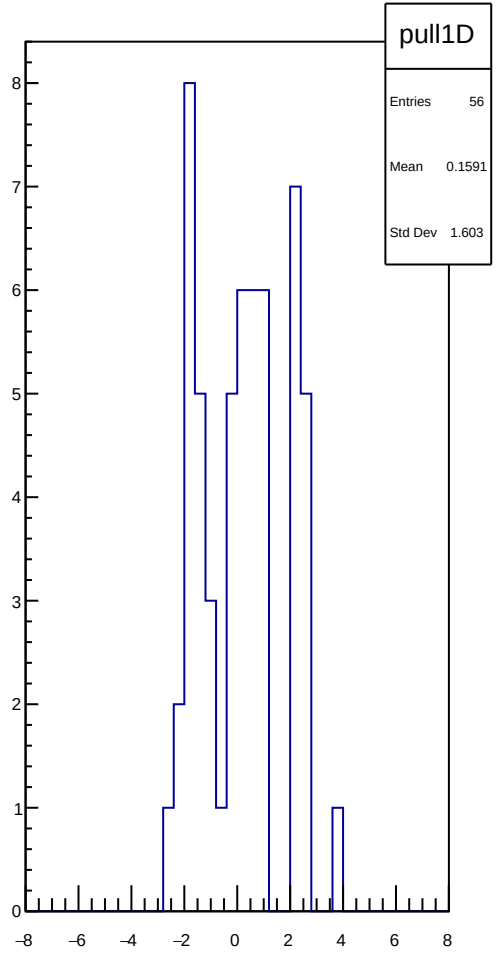

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 146.7 / 55
p0 0.7821± 0.01318
pull
Entries 56
Mean 445
Std Dev 418.9
pull1D
Entries 56
Mean −0.04584
Std Dev 1.618

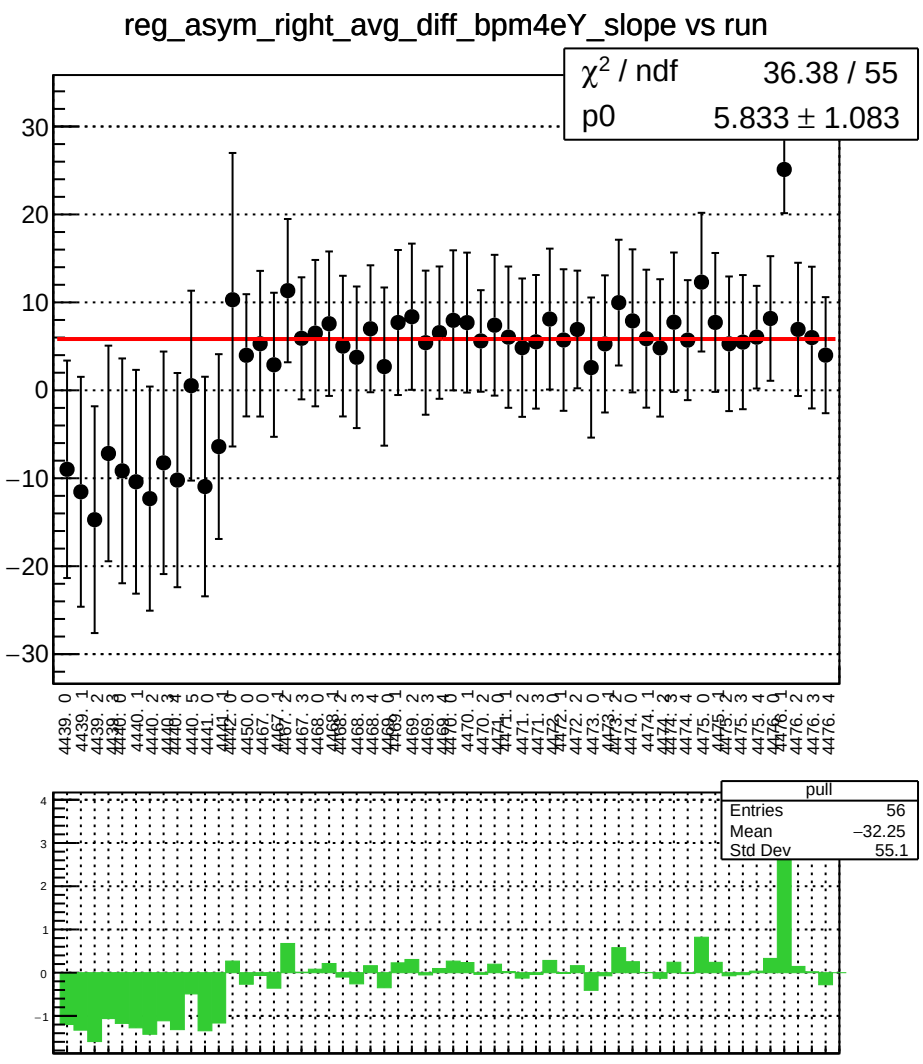

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 56.48 / 55
p0 −9.108 ± 0.808
pull
Entries 56
Mean −28.55
Std Dev 51.15

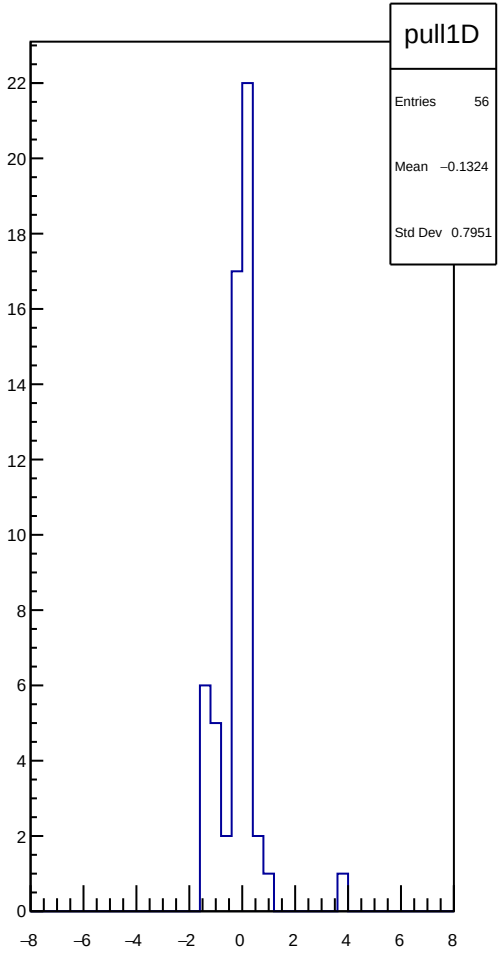

pull1D
Entries 56
Mean −0.1887
Std Dev 0.9864

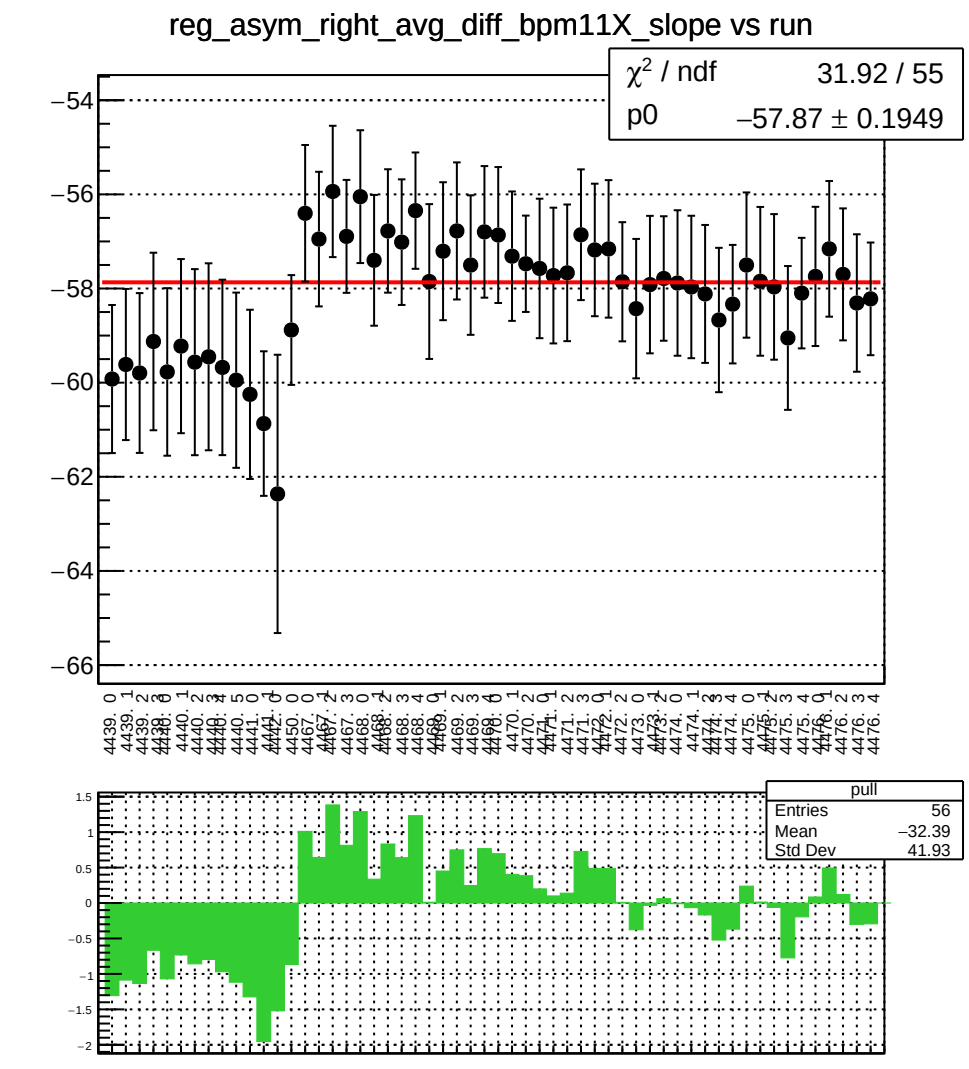

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 62.38 / 55
p0 0.5932 ± 0.9429
pull
Entries 56
Mean 464.5
Std Dev 440
pull1D
Entries 56
Mean −0.0264
Std Dev 1.055

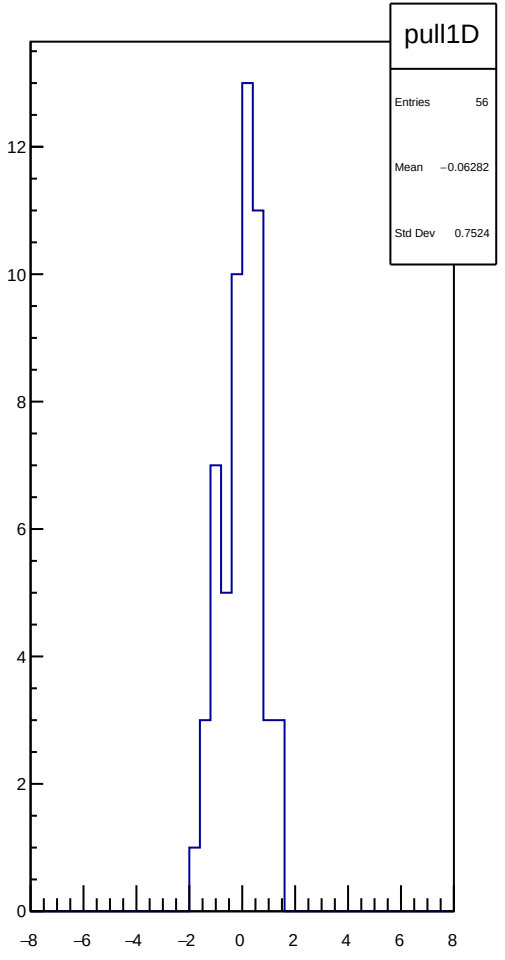

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 145.3 / 55
p0 22.45 ± 0.1451
pull
Entries 56
Mean −121
Std Dev 147.7

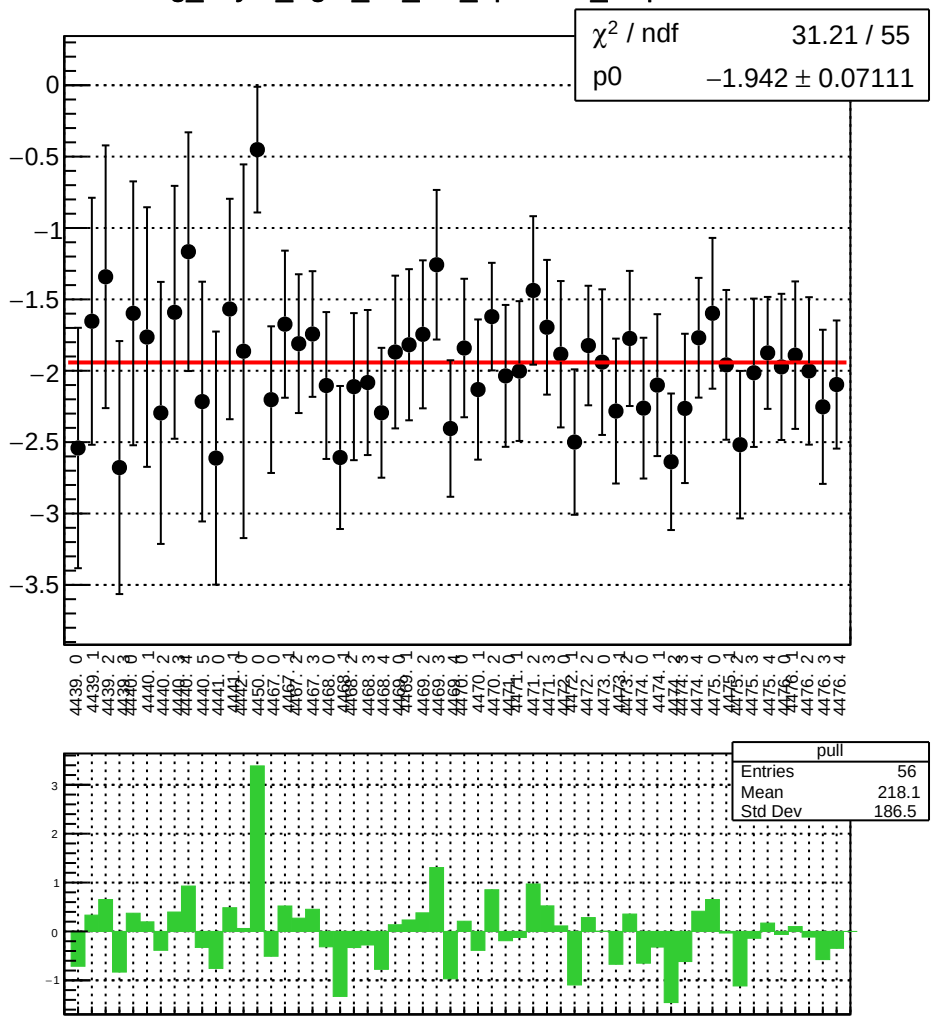

pull1D
Entries 56
Mean 0.1591
Std Dev 1.603

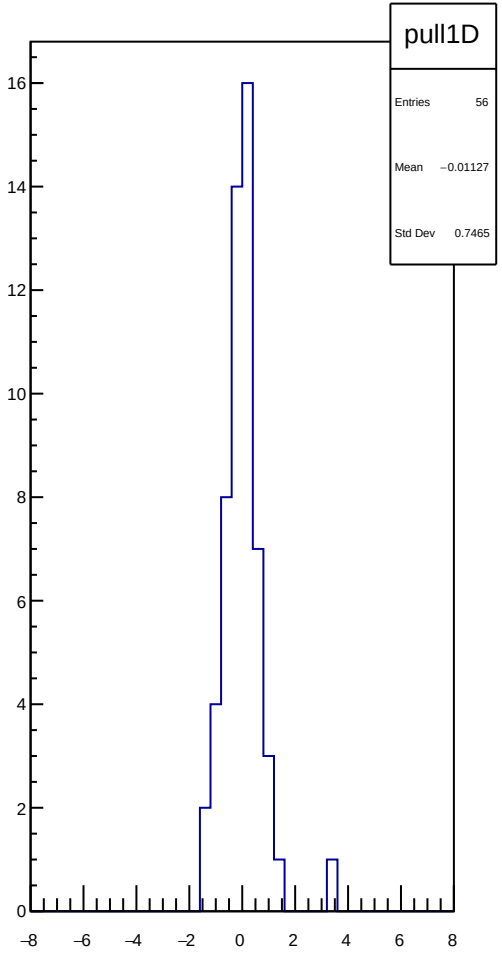

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.38 / 55
p0 5.833 ± 1.083
pull
Entries 56
Mean −32.25
Std Dev 55.1

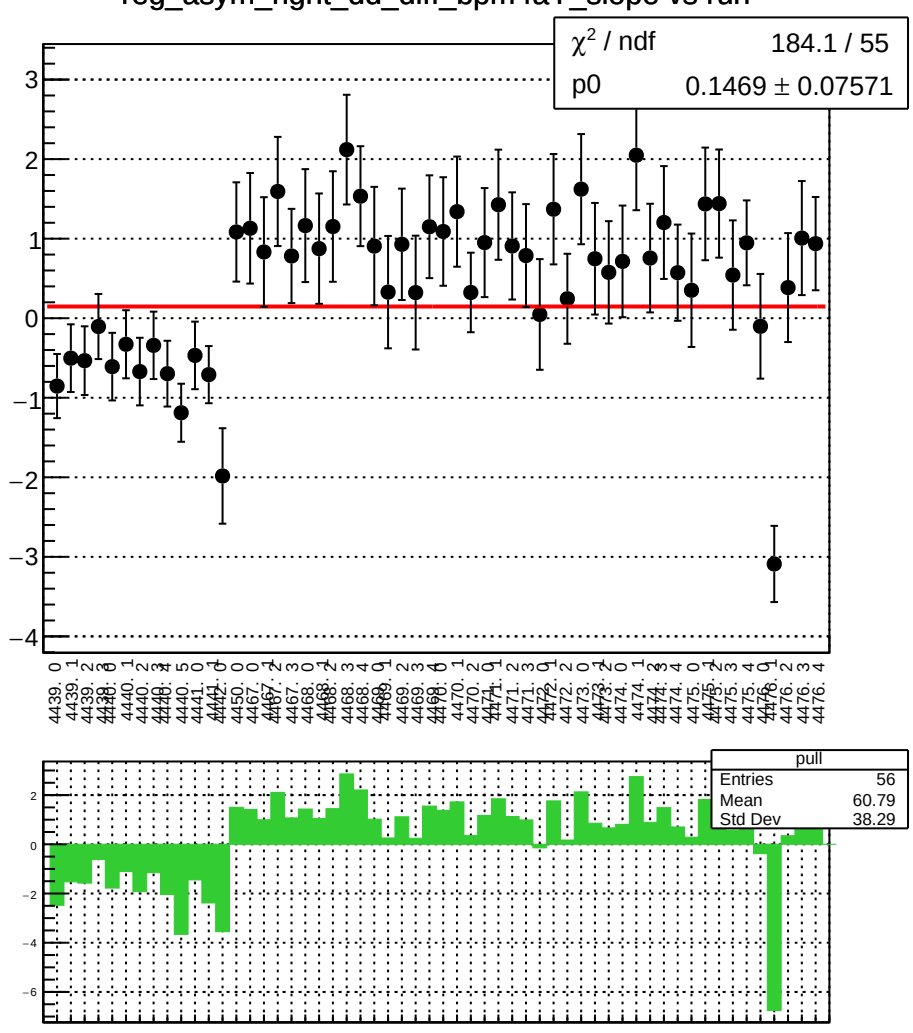

pull1D
Entries 56
Mean −0.1324
Std Dev 0.7951

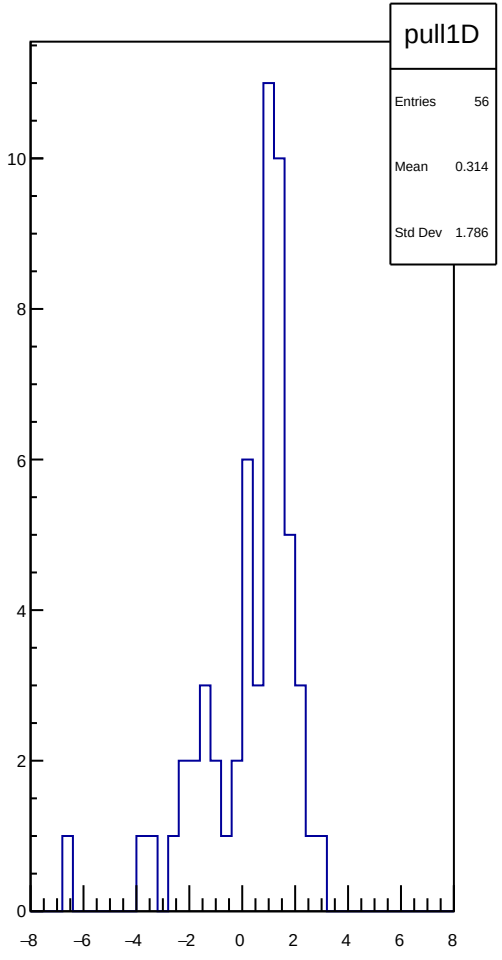

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 31.92 / 55
p0 −57.87 ± 0.1949
pull
Entries 56
Mean −32.39
Std Dev 41.93

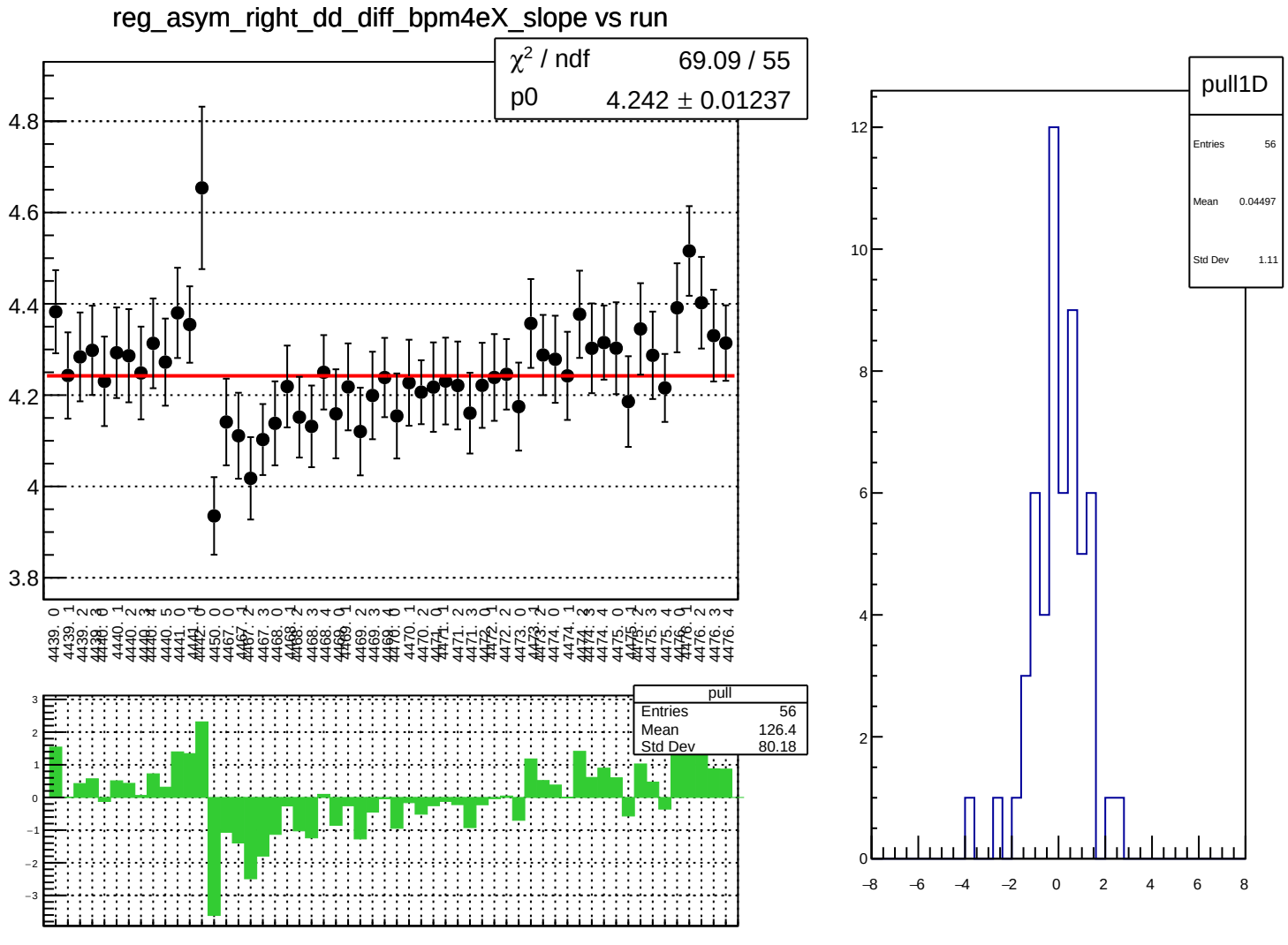

pull1D
Entries 56
Mean −0.06282
Std Dev 0.7524

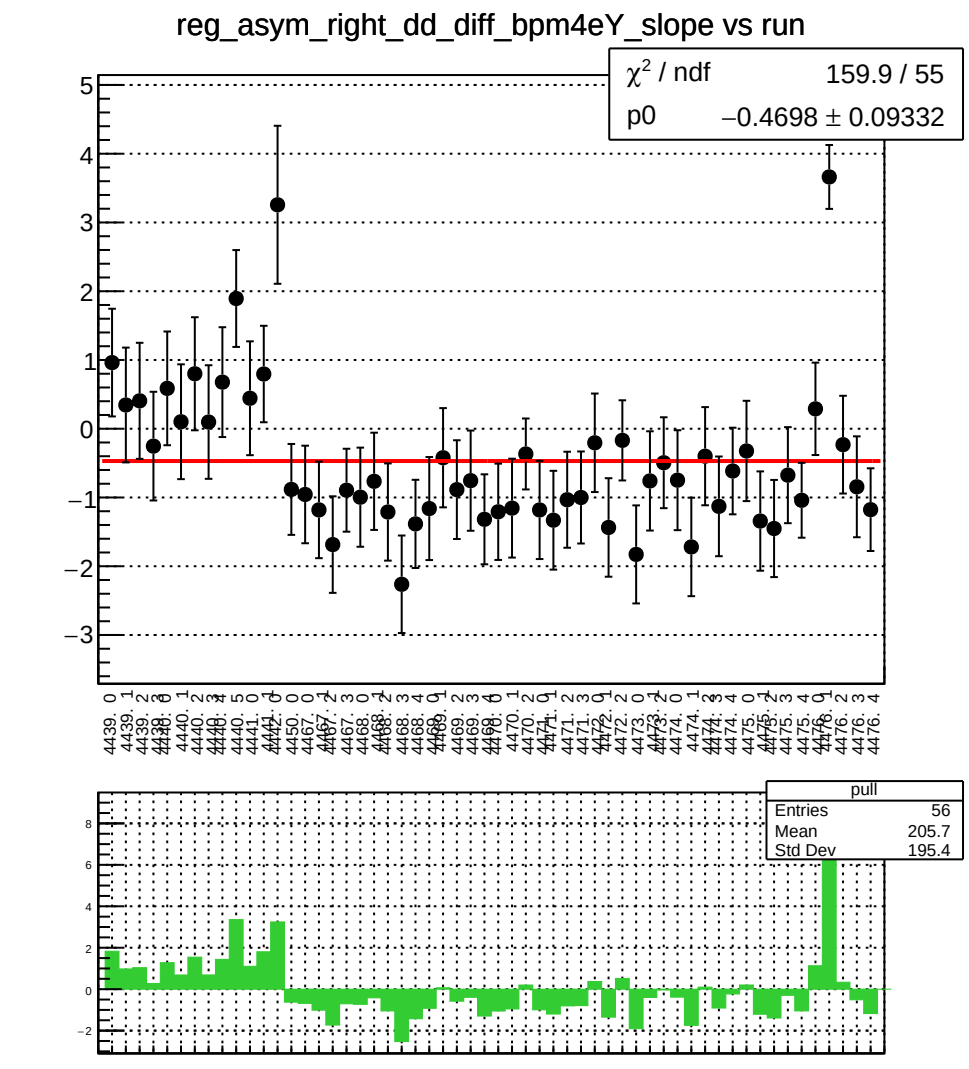

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 31.21 / 55
p0 −1.942 ± 0.07111
pull
Entries 56
Mean 218.1
Std Dev 186.5

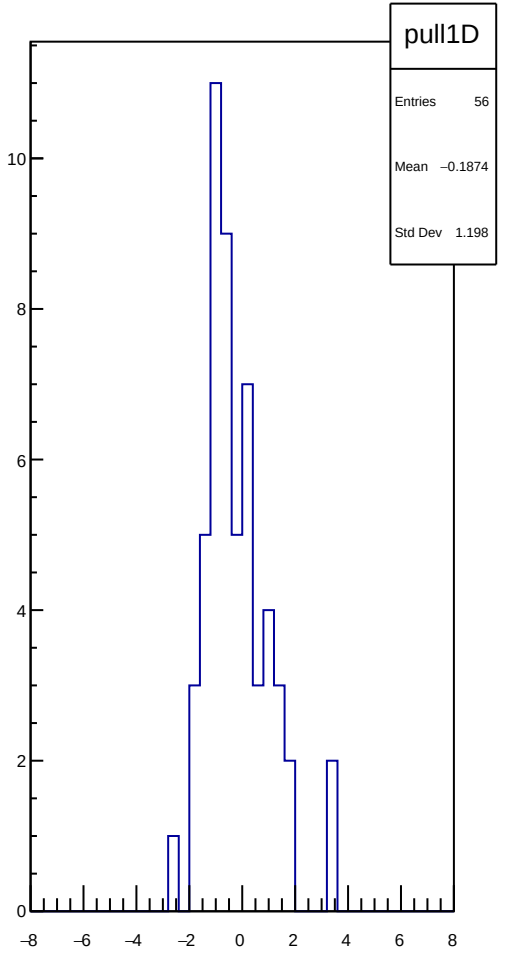

pull1D
Entries 56
Mean −0.01127
Std Dev 0.7465

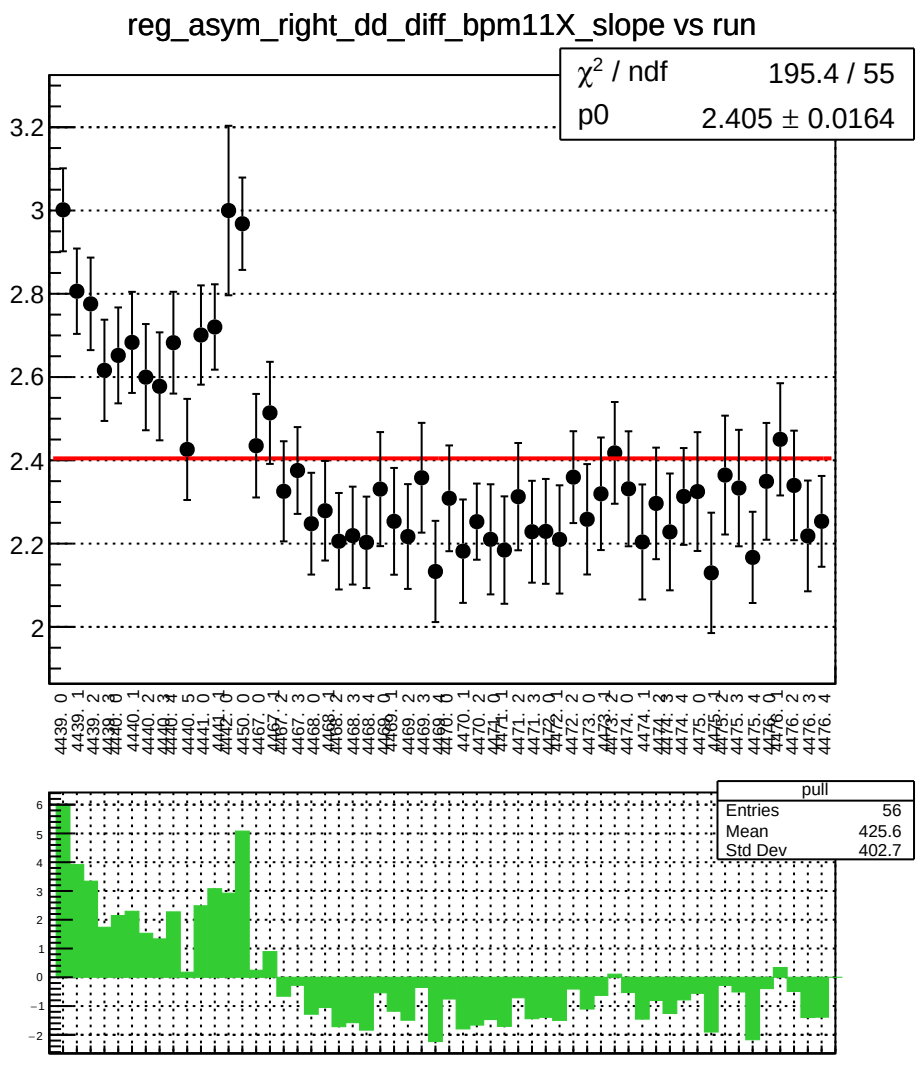

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 184.1 / 55
p0 0.1469 ± 0.07571
pull
Entries 56
Mean 60.79
Std Dev 38.29

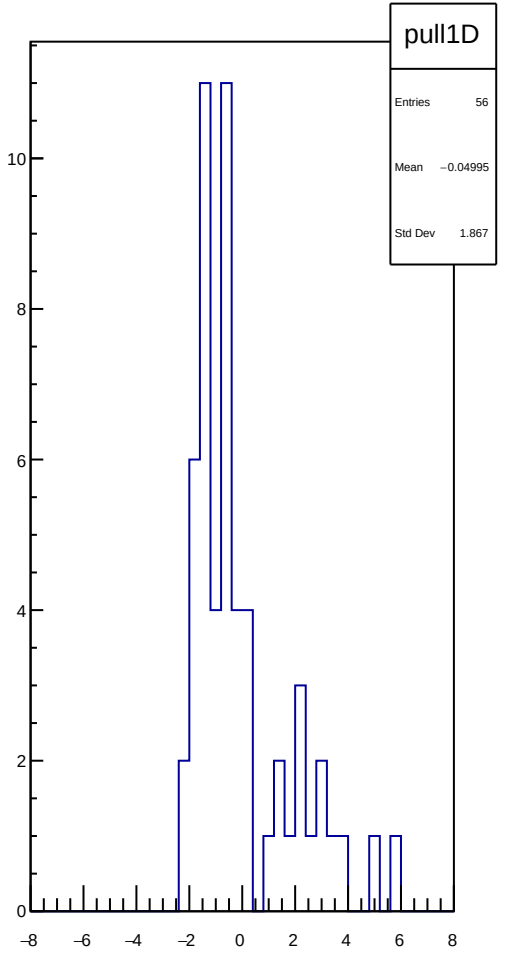

pull1D
Entries 56
Mean 0.314
Std Dev 1.786

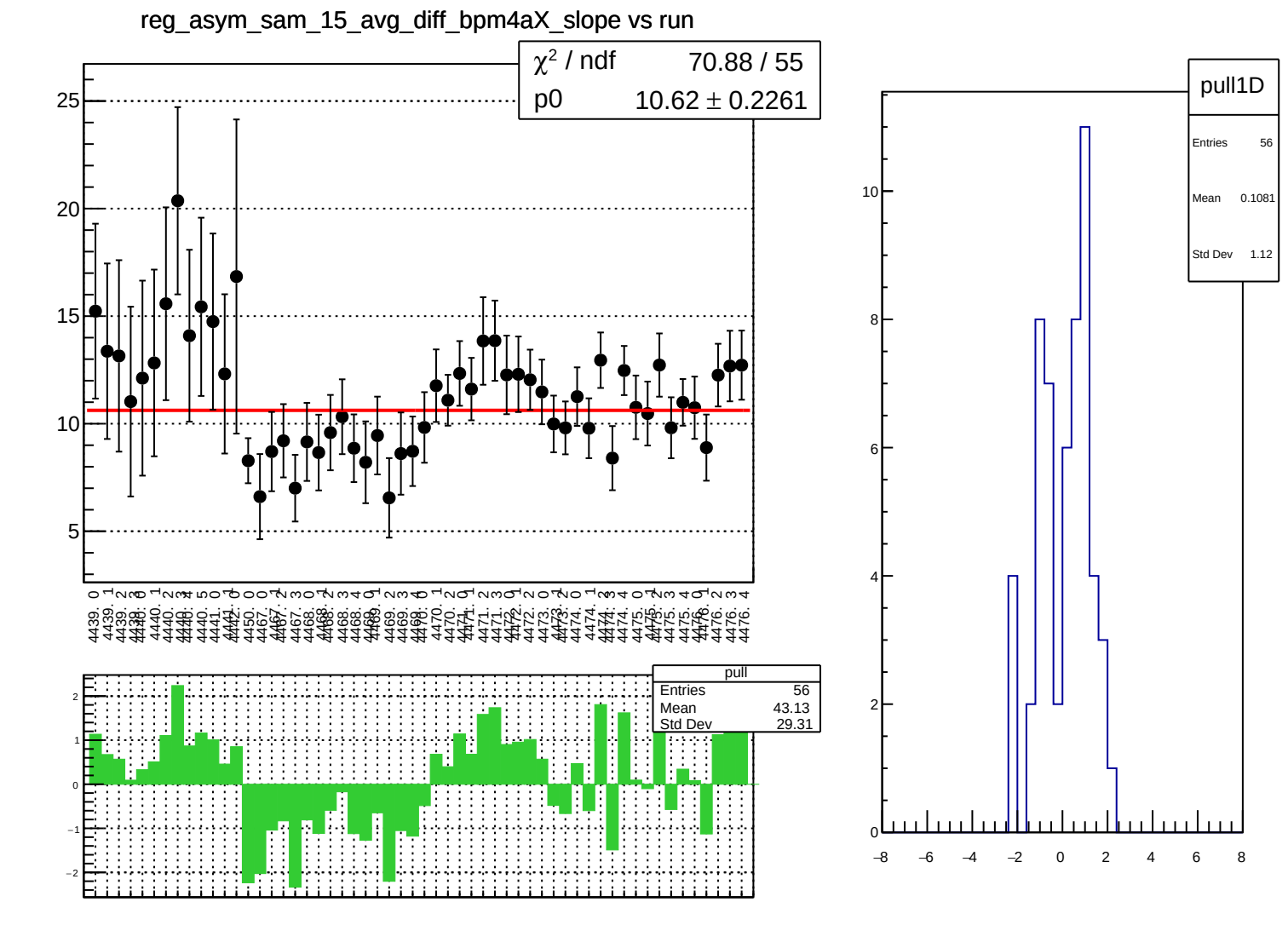

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.09 / 55
p0 4.242 ± 0.01237
pull
Entries 56
Mean 126.4
Std Dev 80.18
pull1D
Entries 56
Mean 0.04497
Std Dev 1.11

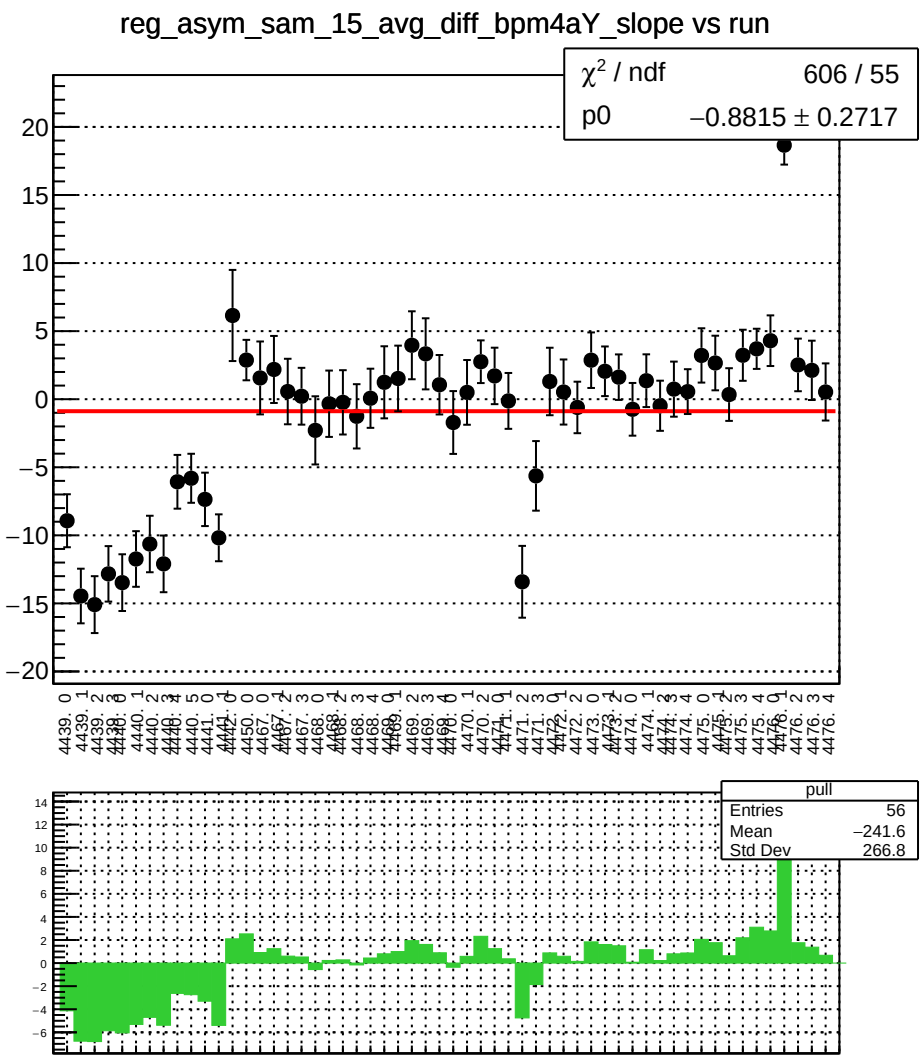

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 159.9 / 55
p0 −0.4698 ± 0.09332
pull
Entries 56
Mean 205.7
Std Dev 195.4

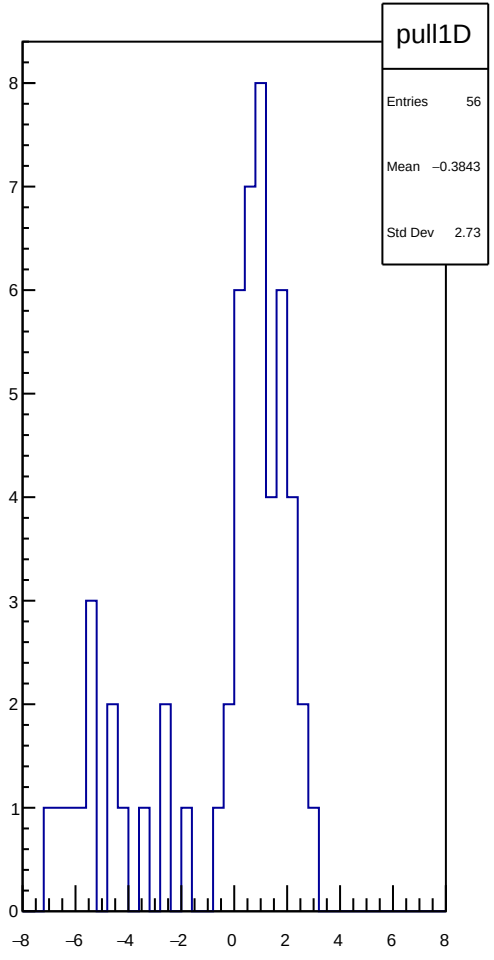

pull1D
Entries 56
Mean −0.1874
Std Dev 1.198

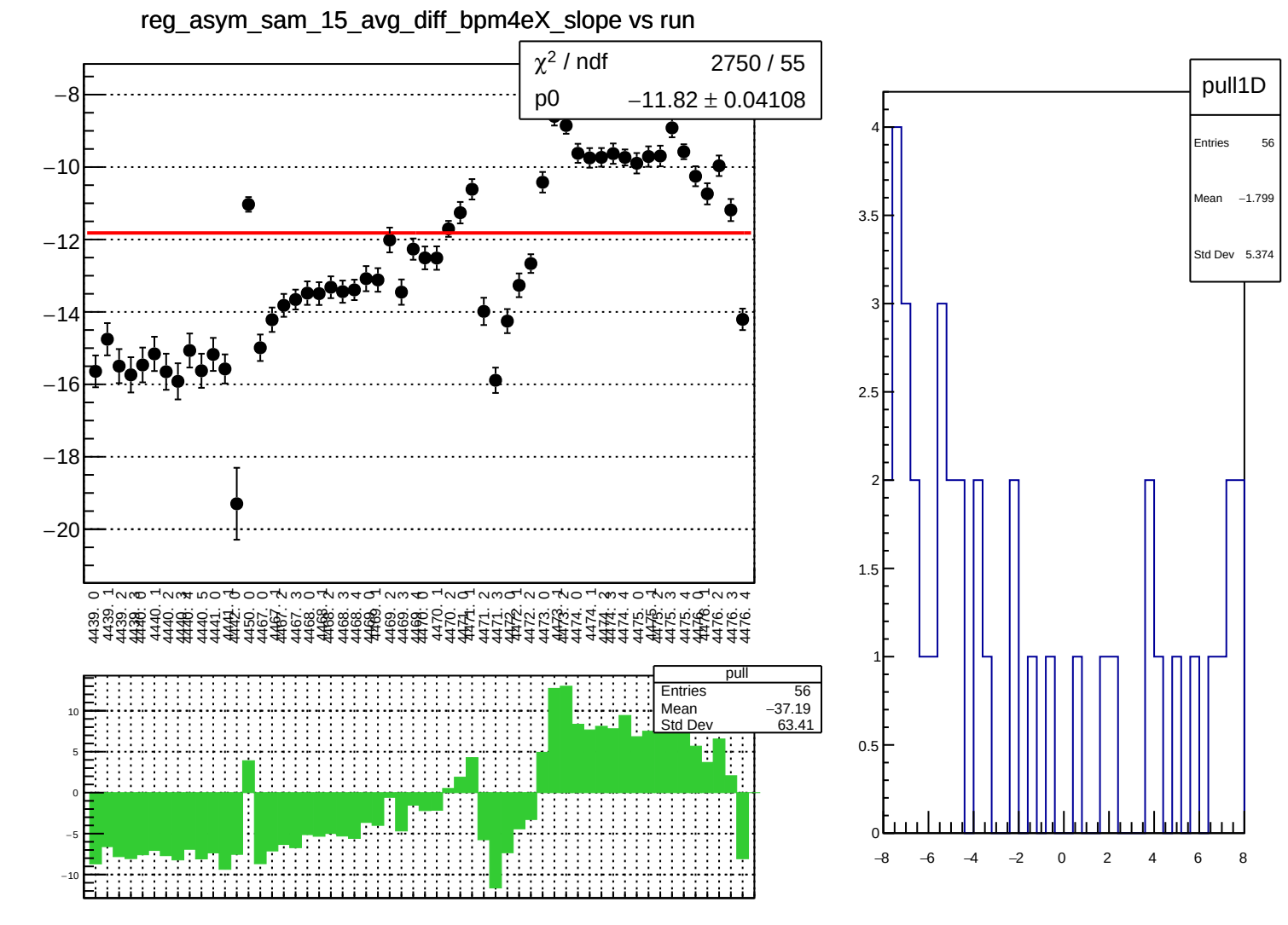

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 195.4 / 55
p0 2.405 ± 0.0164
pull
Entries 56
Mean 425.6
Std Dev 402.7

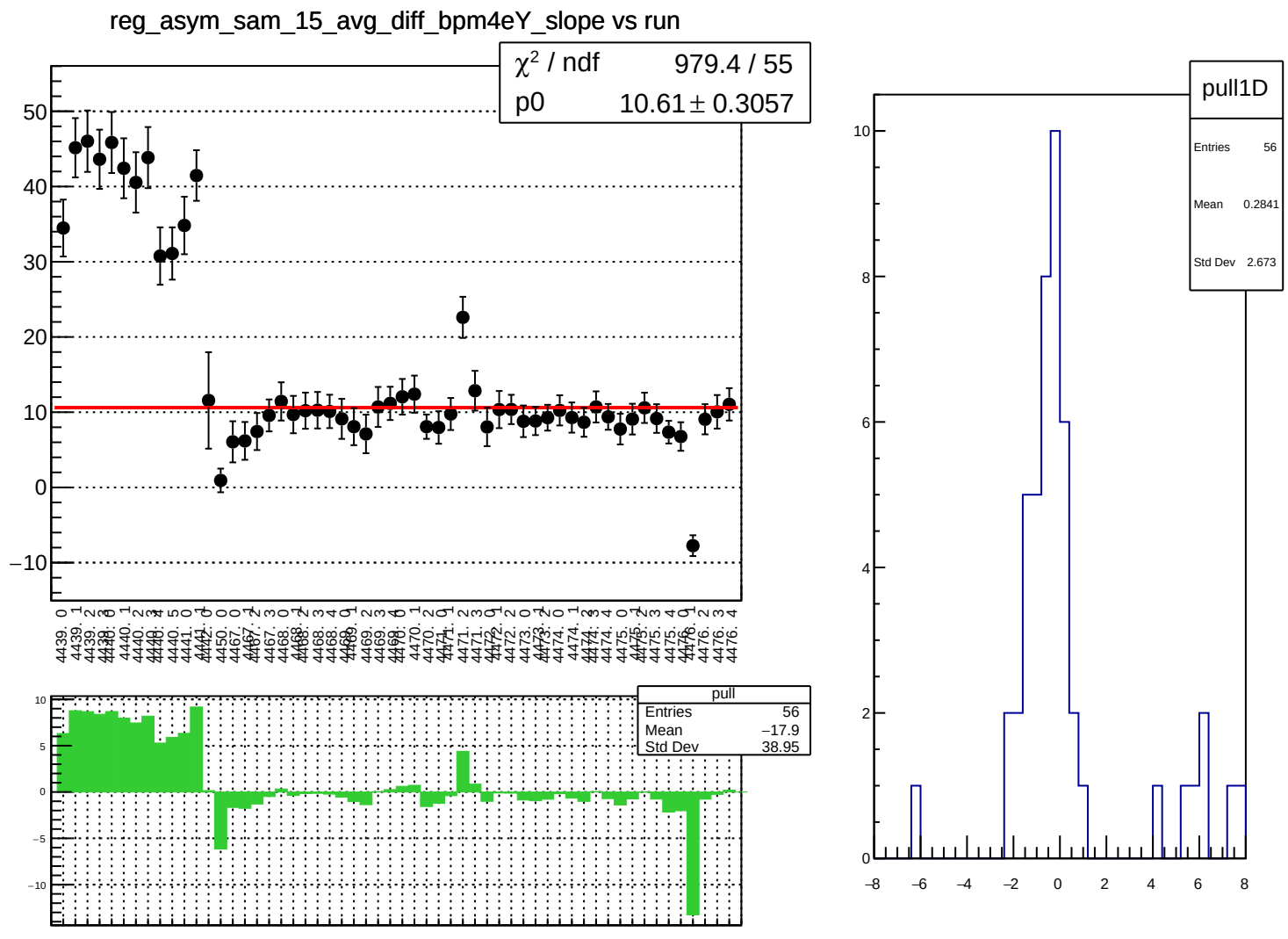

pull1D
Entries 56
Mean −0.04995
Std Dev 1.867

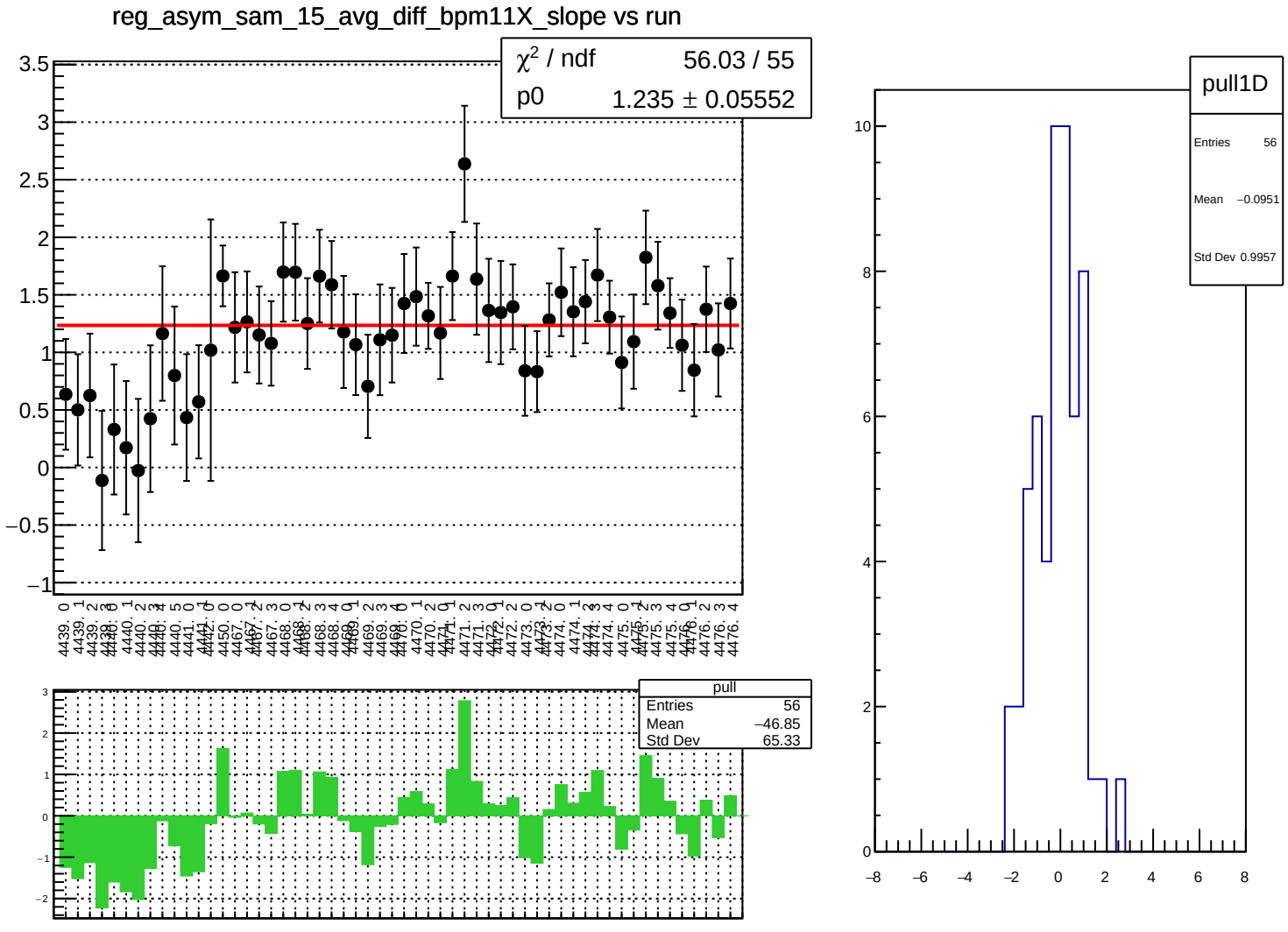

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 70.88 / 55
p0 10.62 ± 0.2261
pull
Entries 56
Mean 43.13
Std Dev 29.31
pull1D
Entries 56
Mean 0.1081
Std Dev 1.12

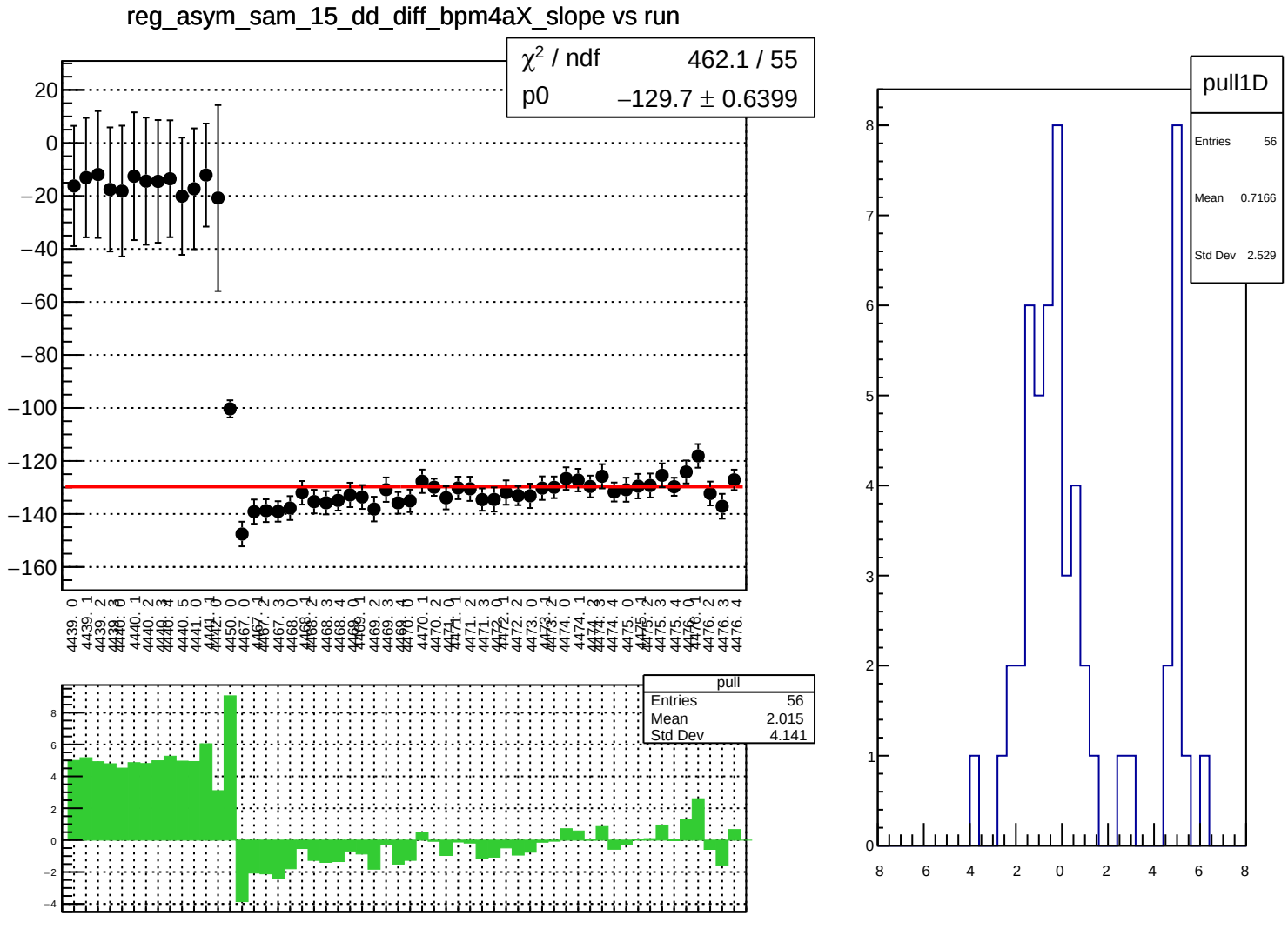

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 606 / 55
p0 −0.8815 ± 0.2717
pull
Entries 56
Mean −241.6
Std Dev 266.8

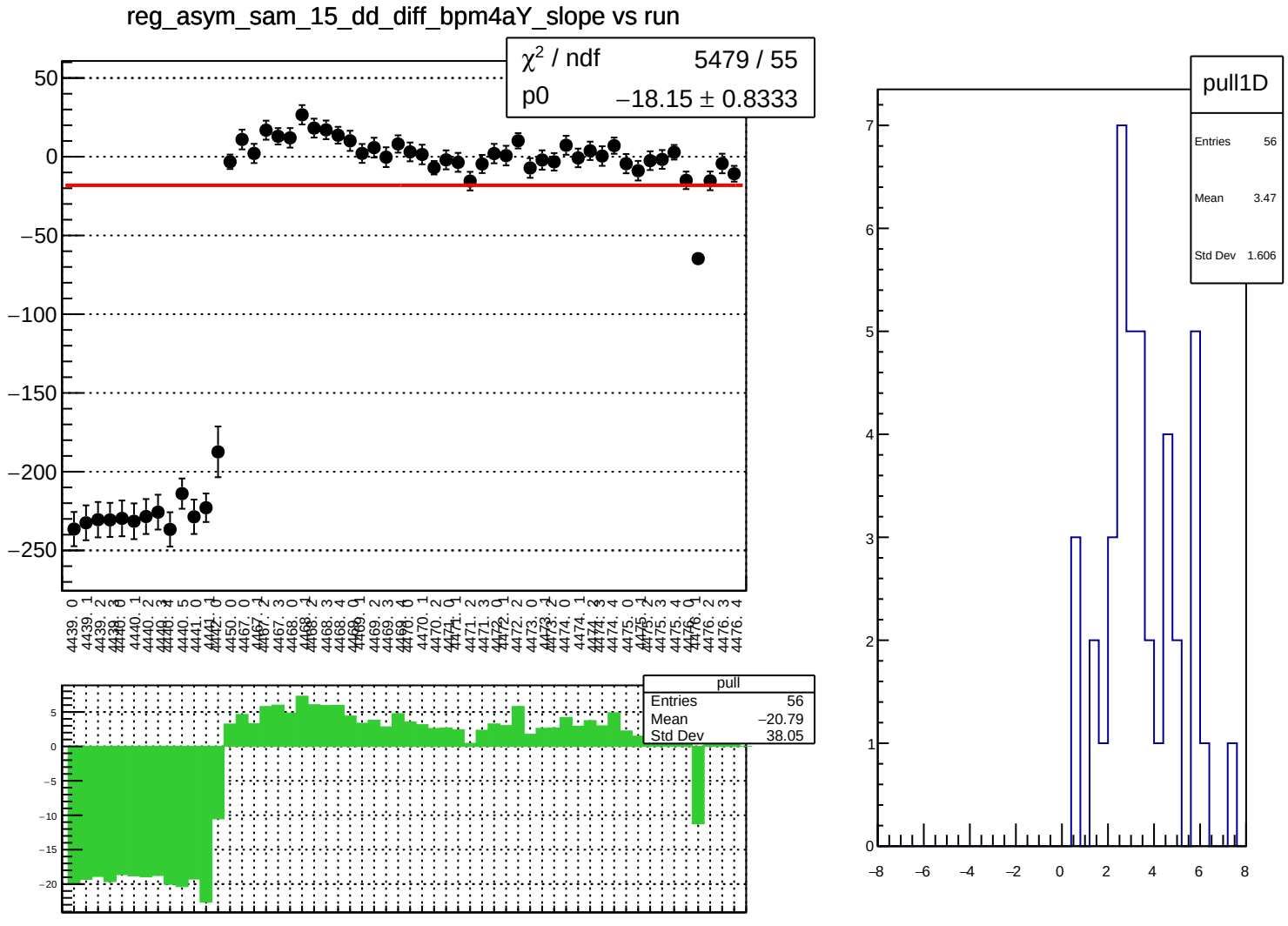

pull1D
Entries 56
Mean −0.3843
Std Dev 2.73

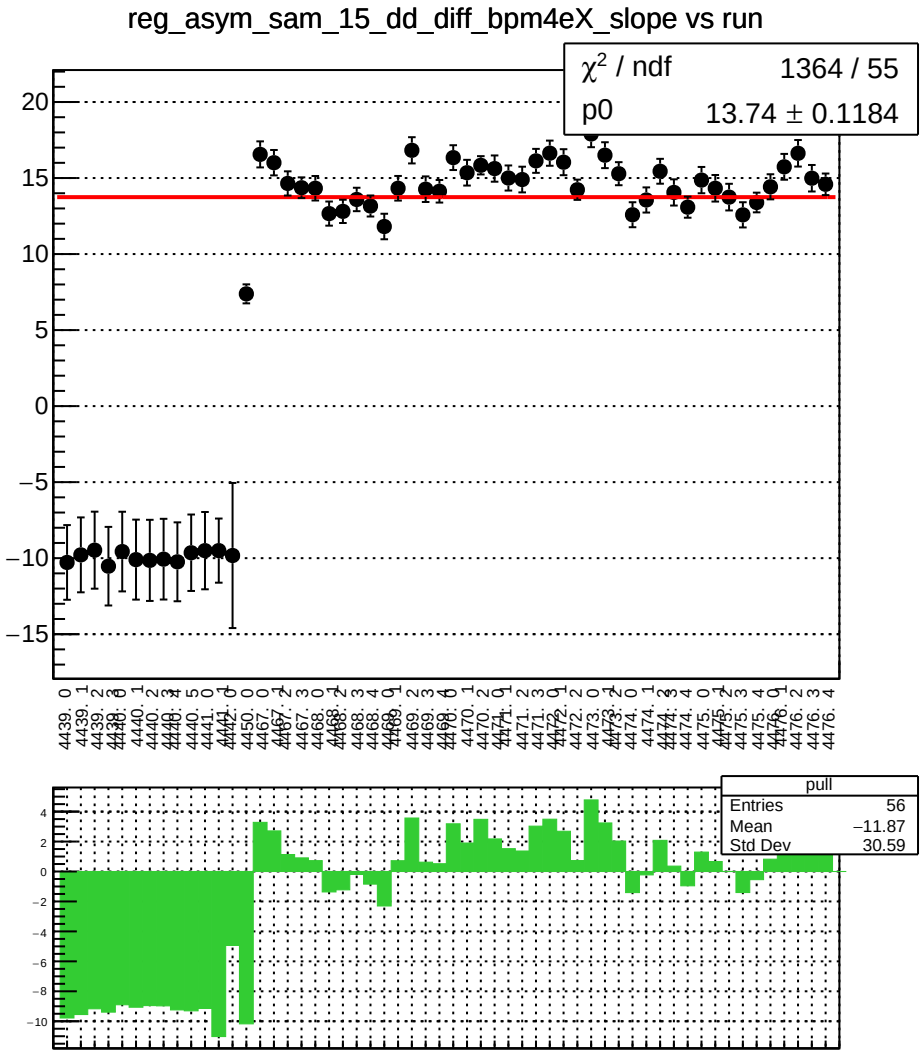

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 2750 / 55
p0 −11.82 ± 0.04108
pull
Entries 56
Mean −37.19
Std Dev 63.41
pull1D
Entries 56
Mean −1.799
Std Dev 5.374

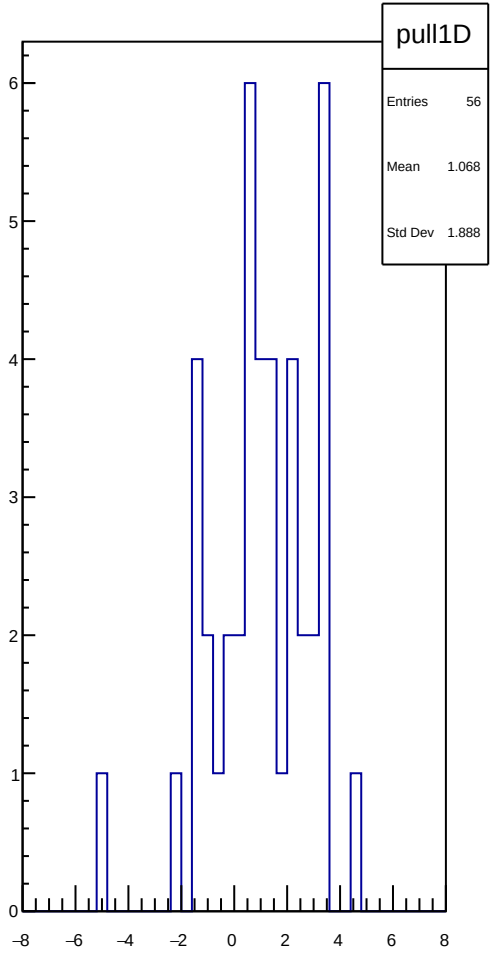

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 979.4 / 55
p0 10.61 ± 0.3057
pull
Entries 56
Mean −17.9
Std Dev 38.95
pull1D
Entries 56
Mean 0.2841
Std Dev 2.673

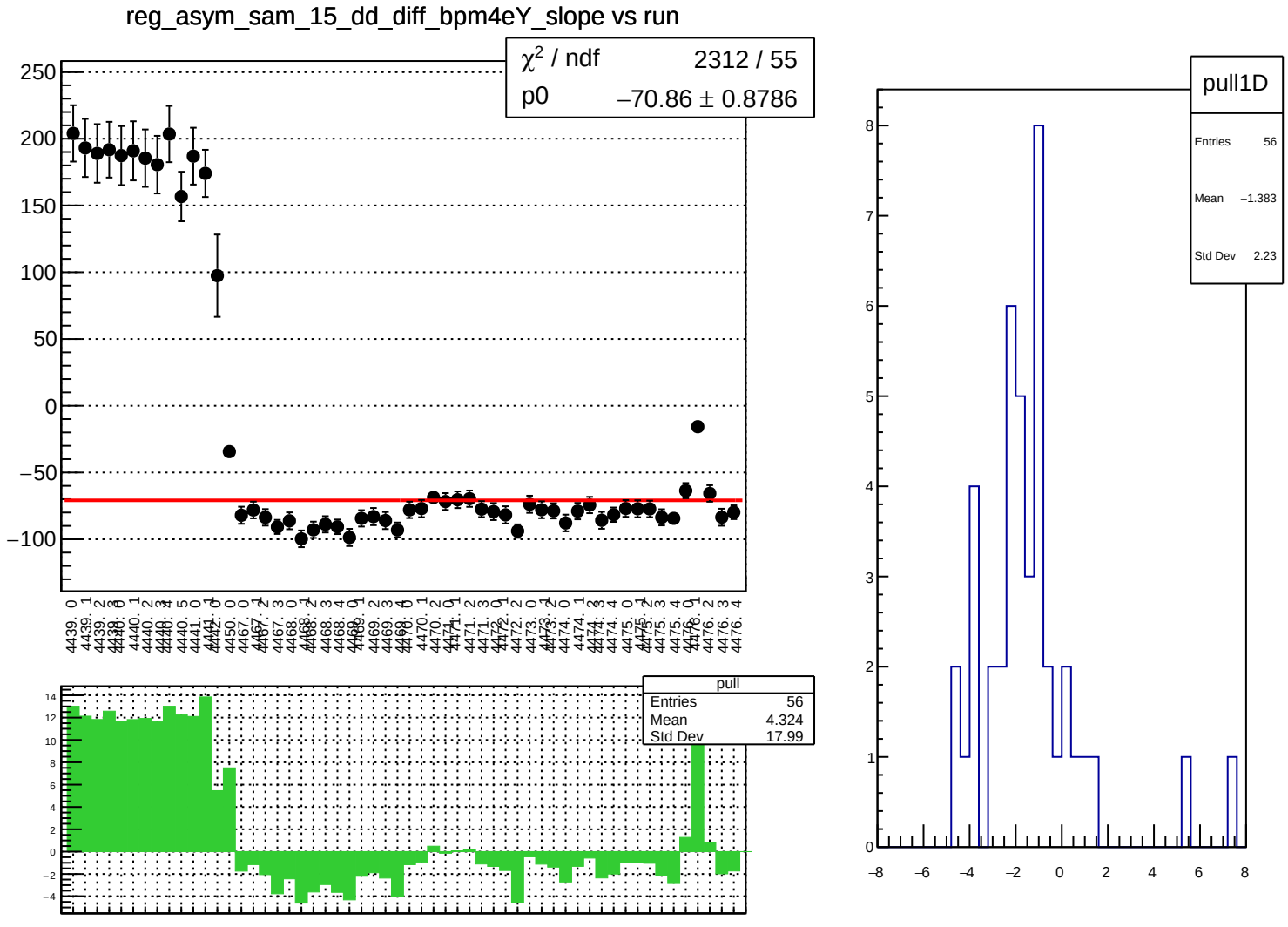

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 56.03 / 55
p0 1.235 ± 0.05552
pull
Entries 56
Mean −46.85
Std Dev 65.33
pull1D
Entries 56
Mean −0.0951
Std Dev 0.9957

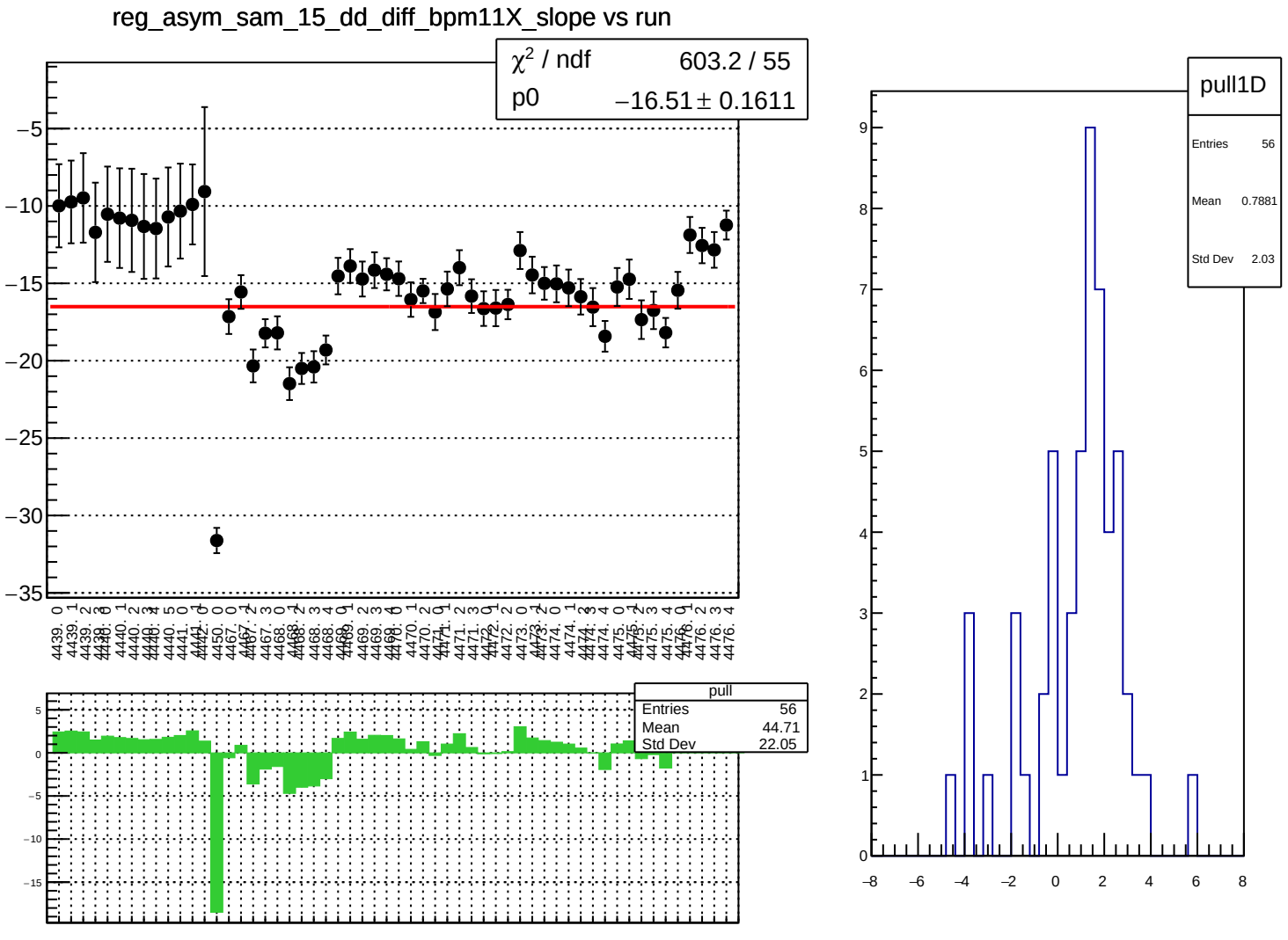

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 462.1 / 55
p0 −129.7 ± 0.6399
pull
Entries 56
Mean 2.015
Std Dev 4.141
pull1D
Entries 56
Mean 0.7166
Std Dev 2.529

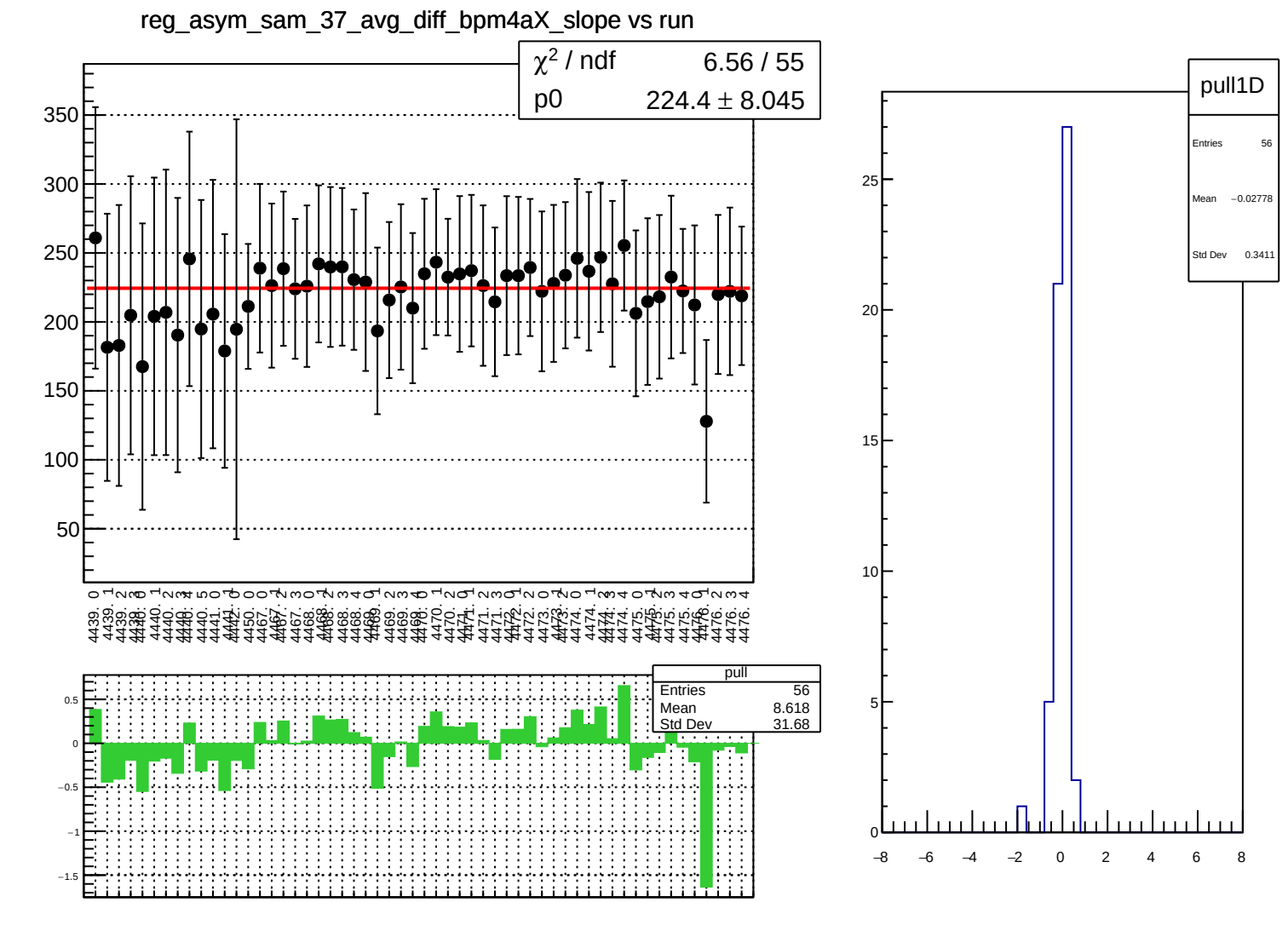

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 5479 / 55
p0 −18.15 ± 0.8333
pull
Entries 56
Mean −20.79
Std Dev 38.05
pull1D
Entries 56
Mean 3.47
Std Dev 1.606

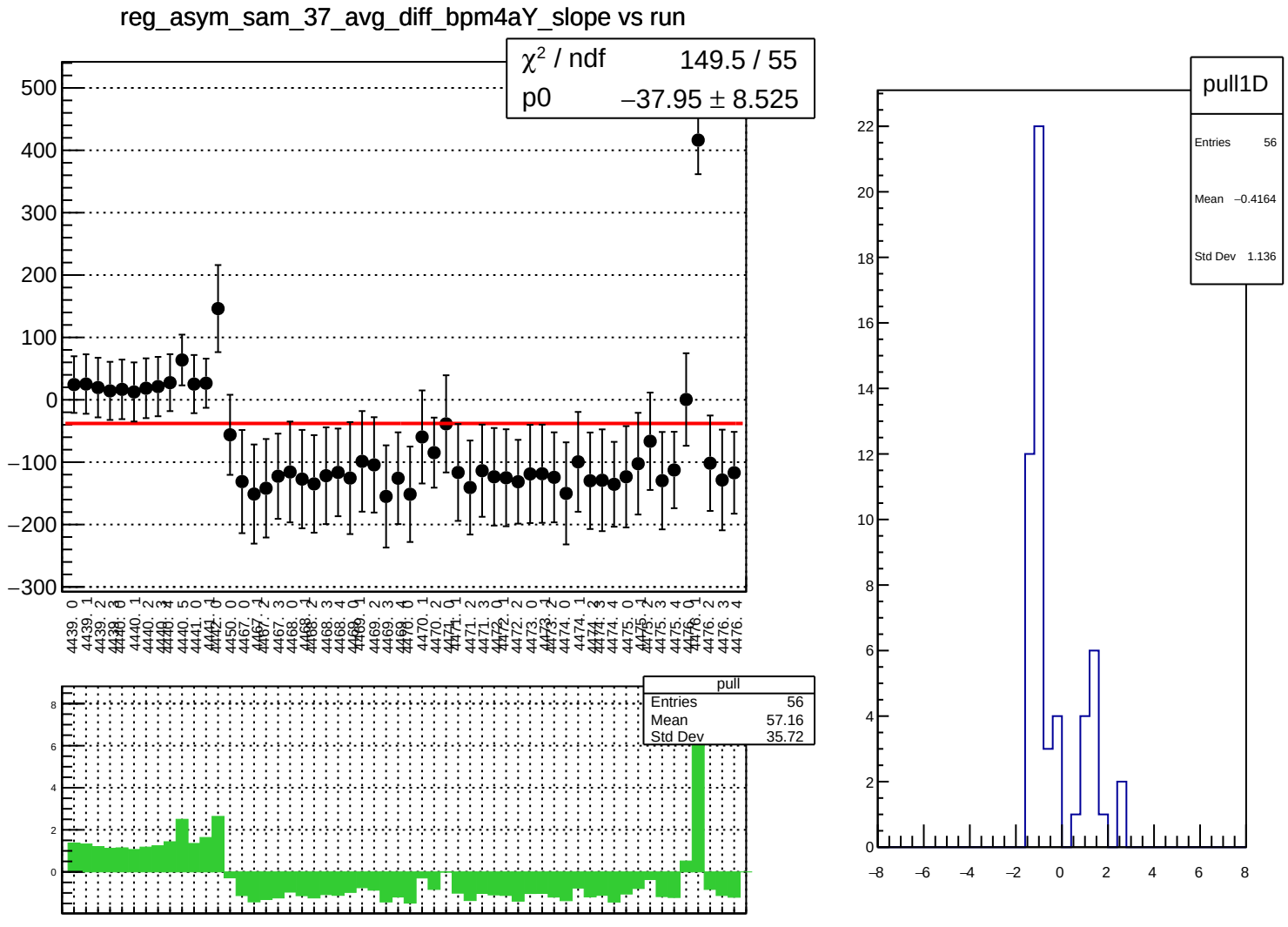

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 1364 / 55
p0 13.74 ± 0.1184
pull
Entries 56
Mean −11.87
Std Dev 30.59

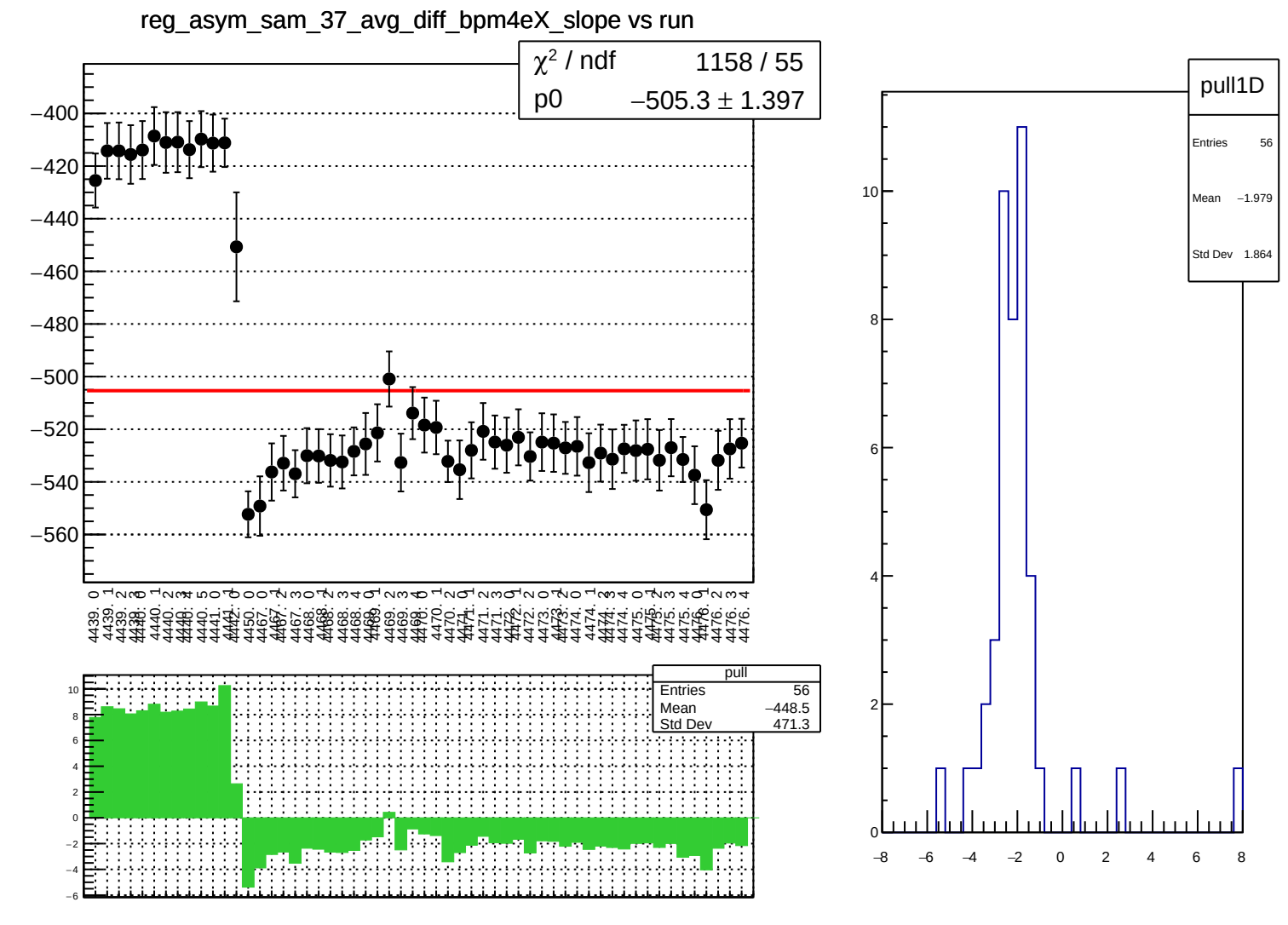

pull1D
Entries 56
Mean 1.068
Std Dev 1.888

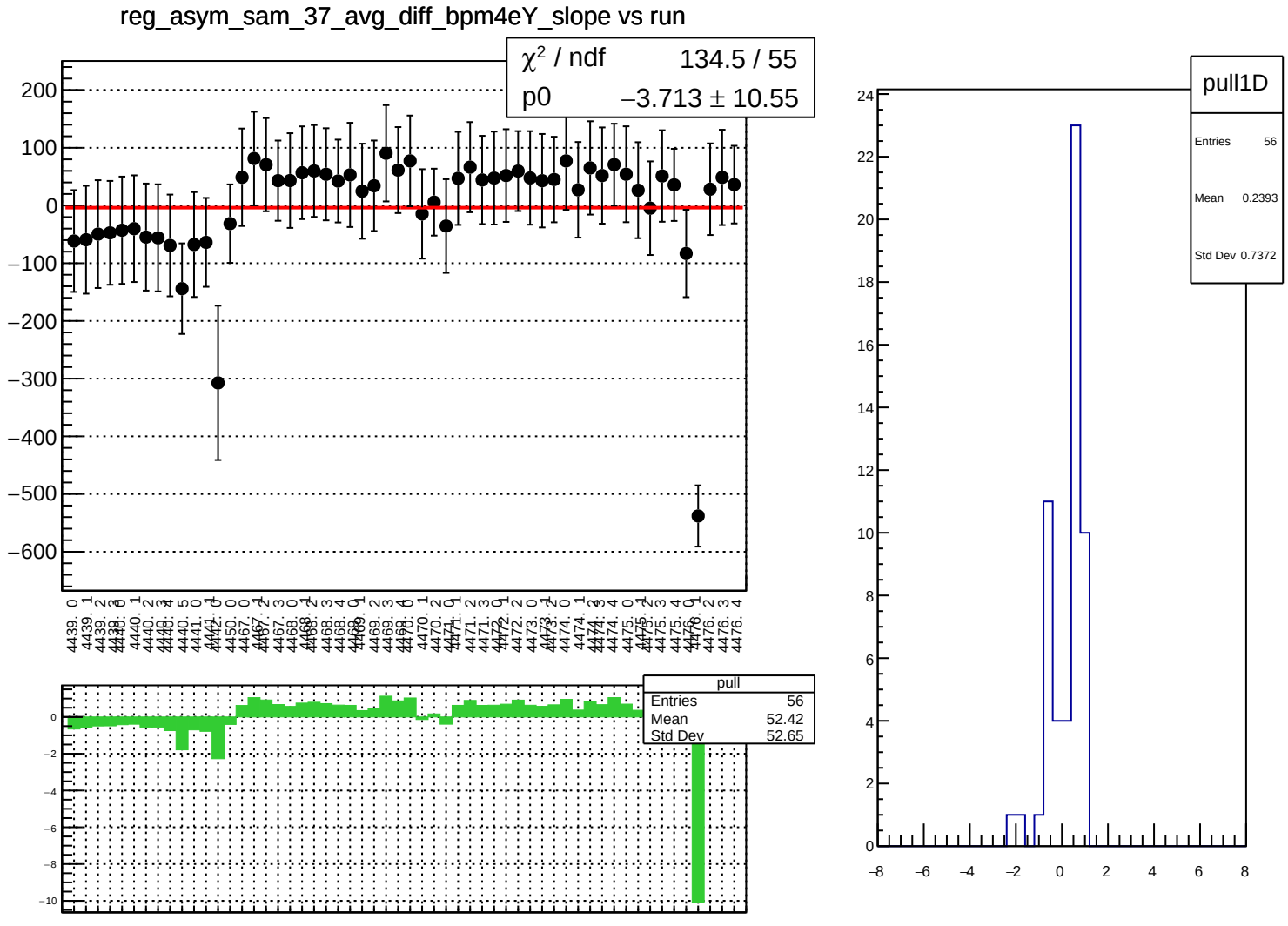

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 2312 / 55
p0 −70.86 ± 0.8786
pull
Entries 56
Mean −4.324
Std Dev 17.99
pull1D
Entries 56
Mean −1.383
Std Dev 2.23

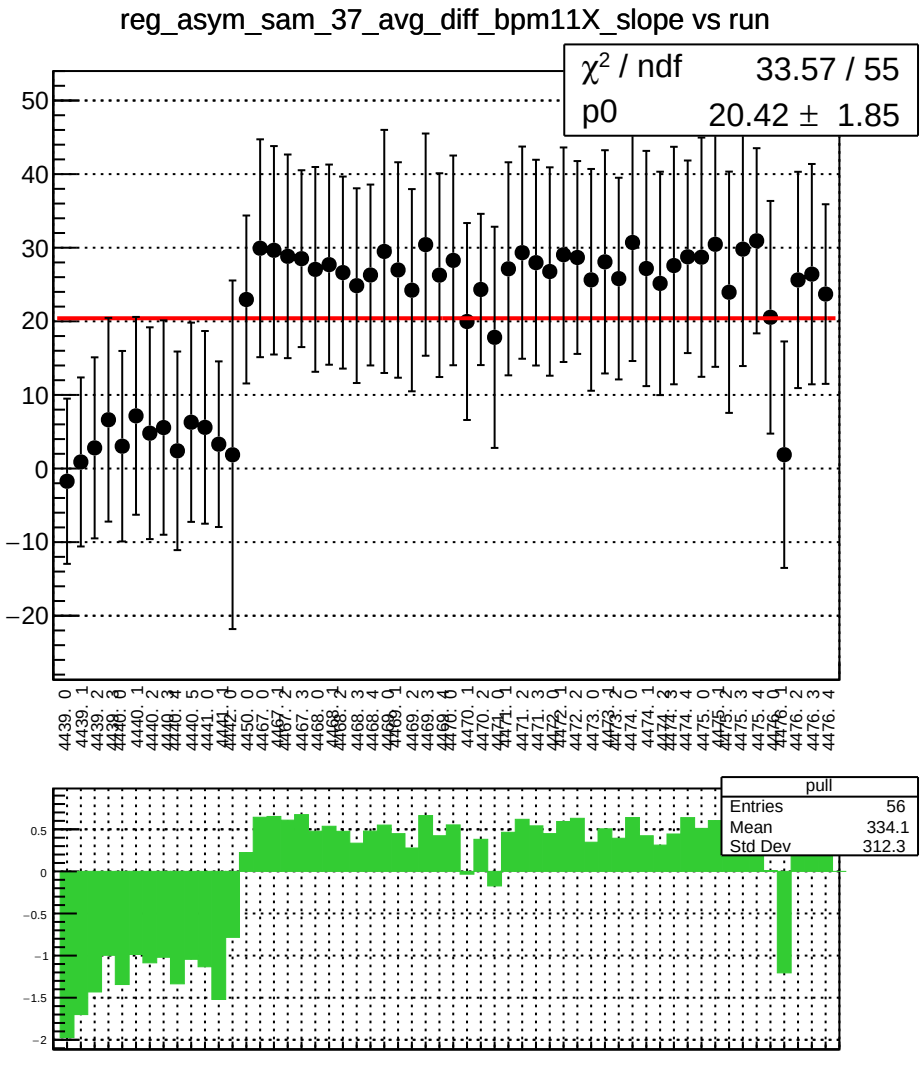

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 603.2 / 55
p0 −16.51 ± 0.1611
pull
Entries 56
Mean 44.71
Std Dev 22.05
pull1D
Entries 56
Mean 0.7881
Std Dev 2.03

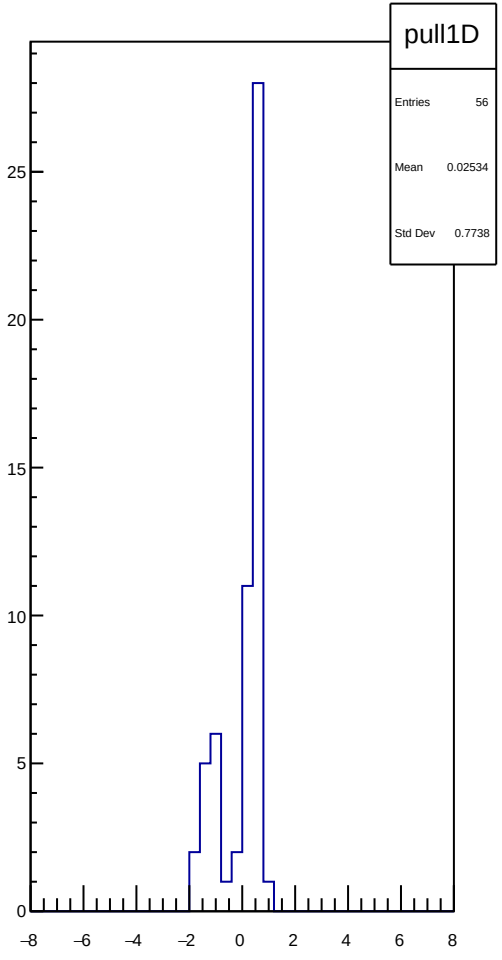

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.56 / 55
p0 224.4 ± 8.045
pull
Entries 56
Mean 8.618
Std Dev 31.68
pull1D
Entries 56
Mean −0.02778
Std Dev 0.3411

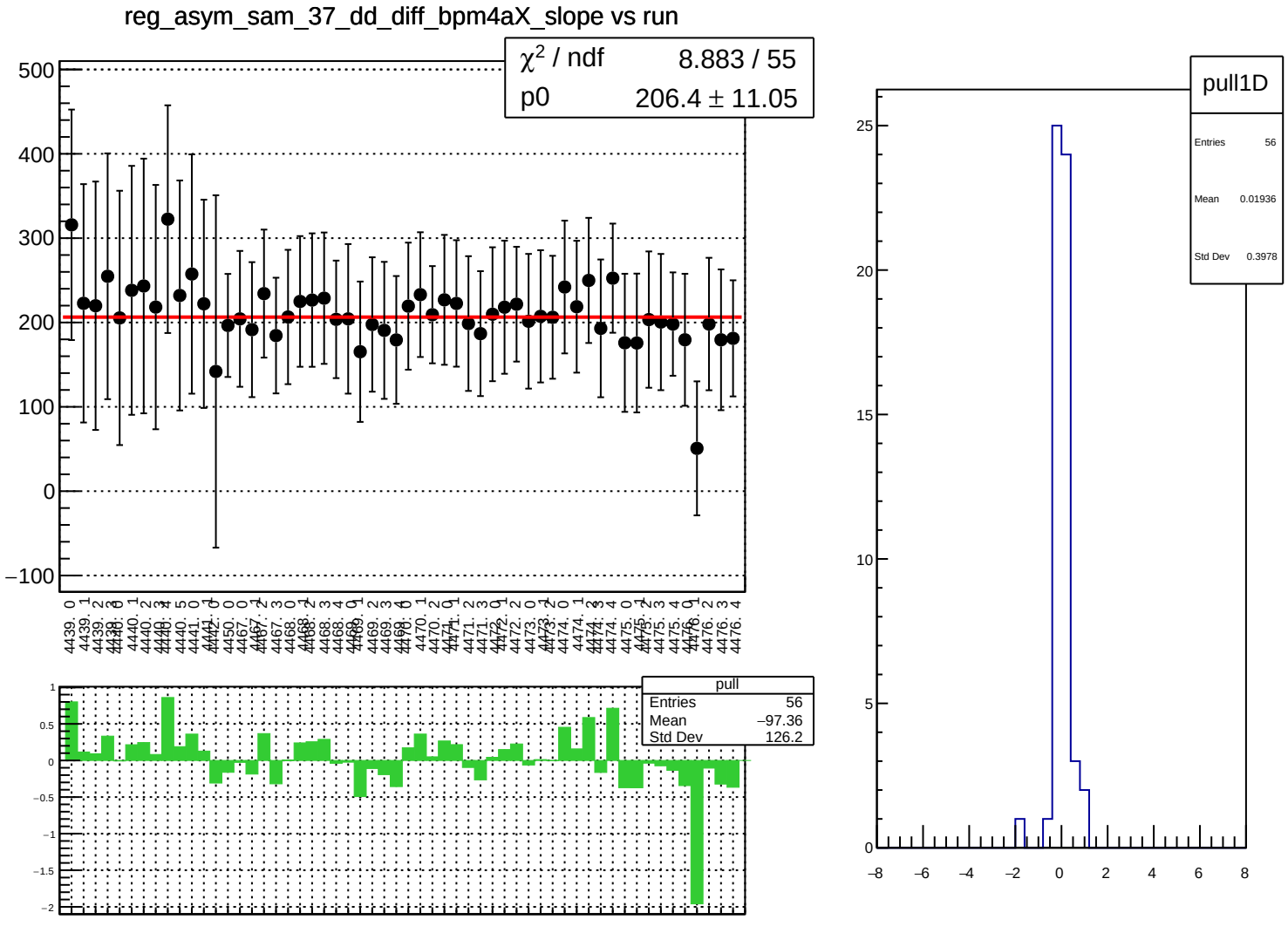

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 149.5 / 55
p0 −37.95 ± 8.525
pull
Entries 56
Mean 57.16
Std Dev 35.72
pull1D
Entries 56
Mean −0.4164
Std Dev 1.136

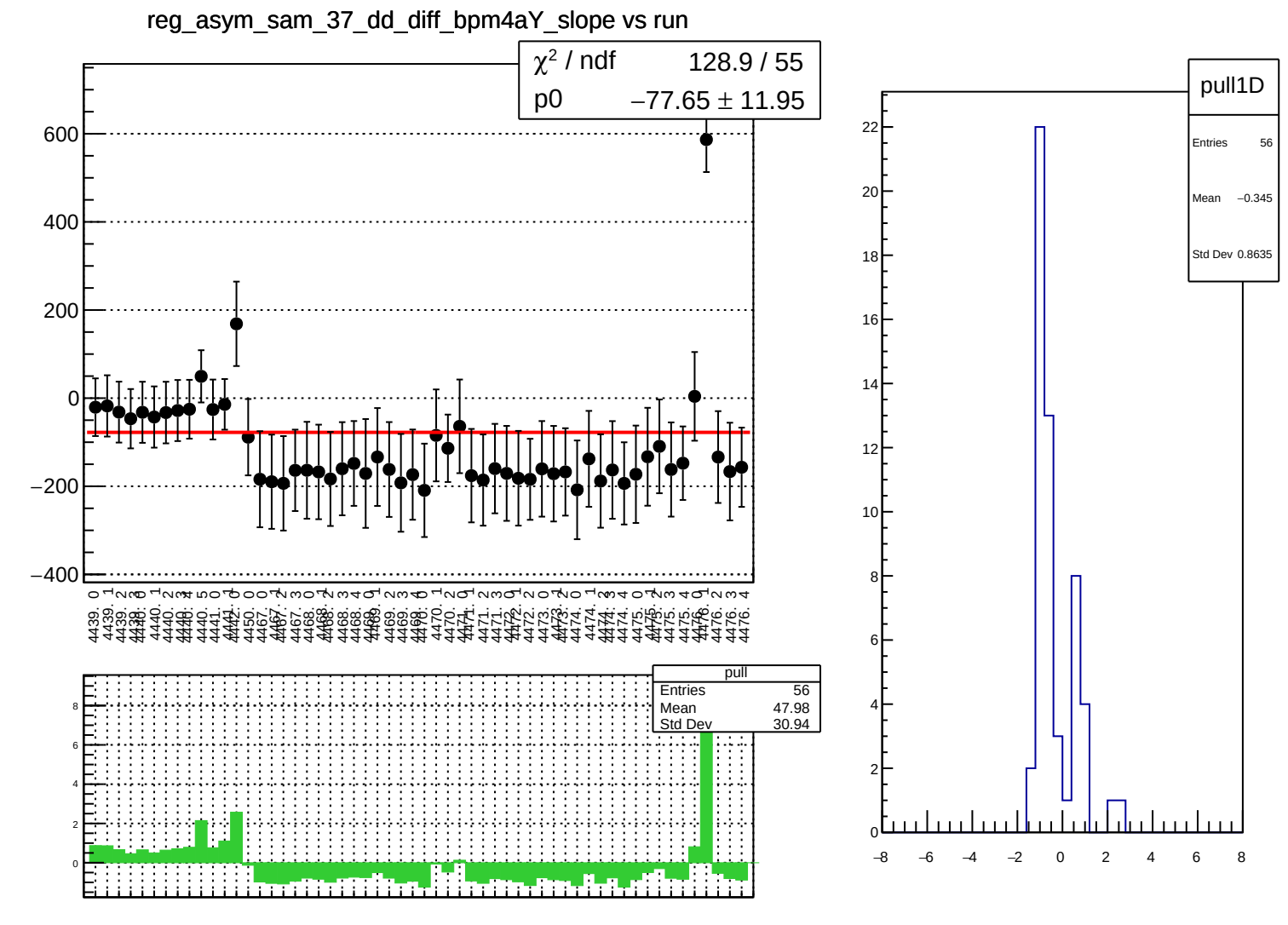

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 1158 / 55
p0 −505.3 ± 1.397
pull
Entries 56
Mean −448.5
Std Dev 471.3
pull1D
Entries 56
Mean −1.979
Std Dev 1.864

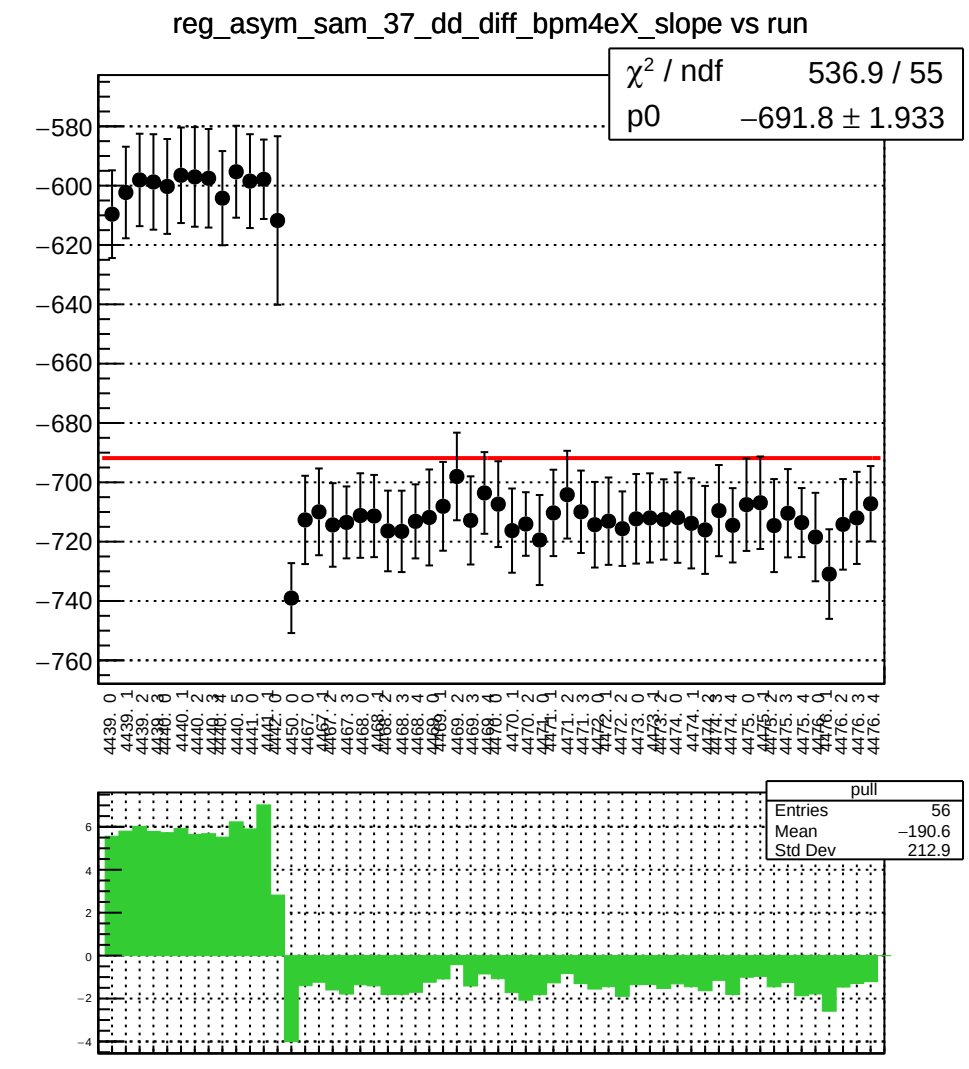

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 134.5 / 55
p0 −3.713 ± 10.55
pull
Entries 56
Mean 52.42
Std Dev 52.65
pull1D
Entries 56
Mean 0.2393
Std Dev 0.7372

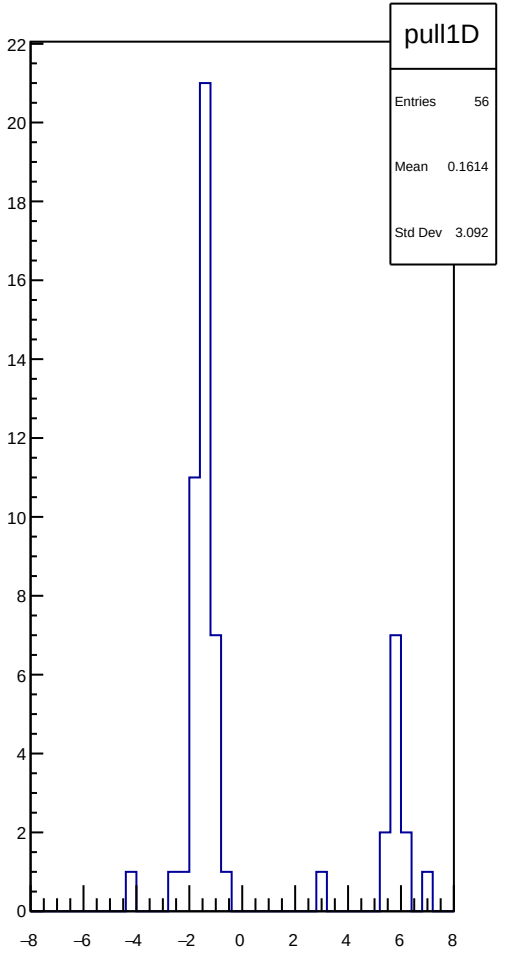

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 33.57 / 55
p0 20.42 ± 1.85
pull
Entries 56
Mean 334.1
Std Dev 312.3

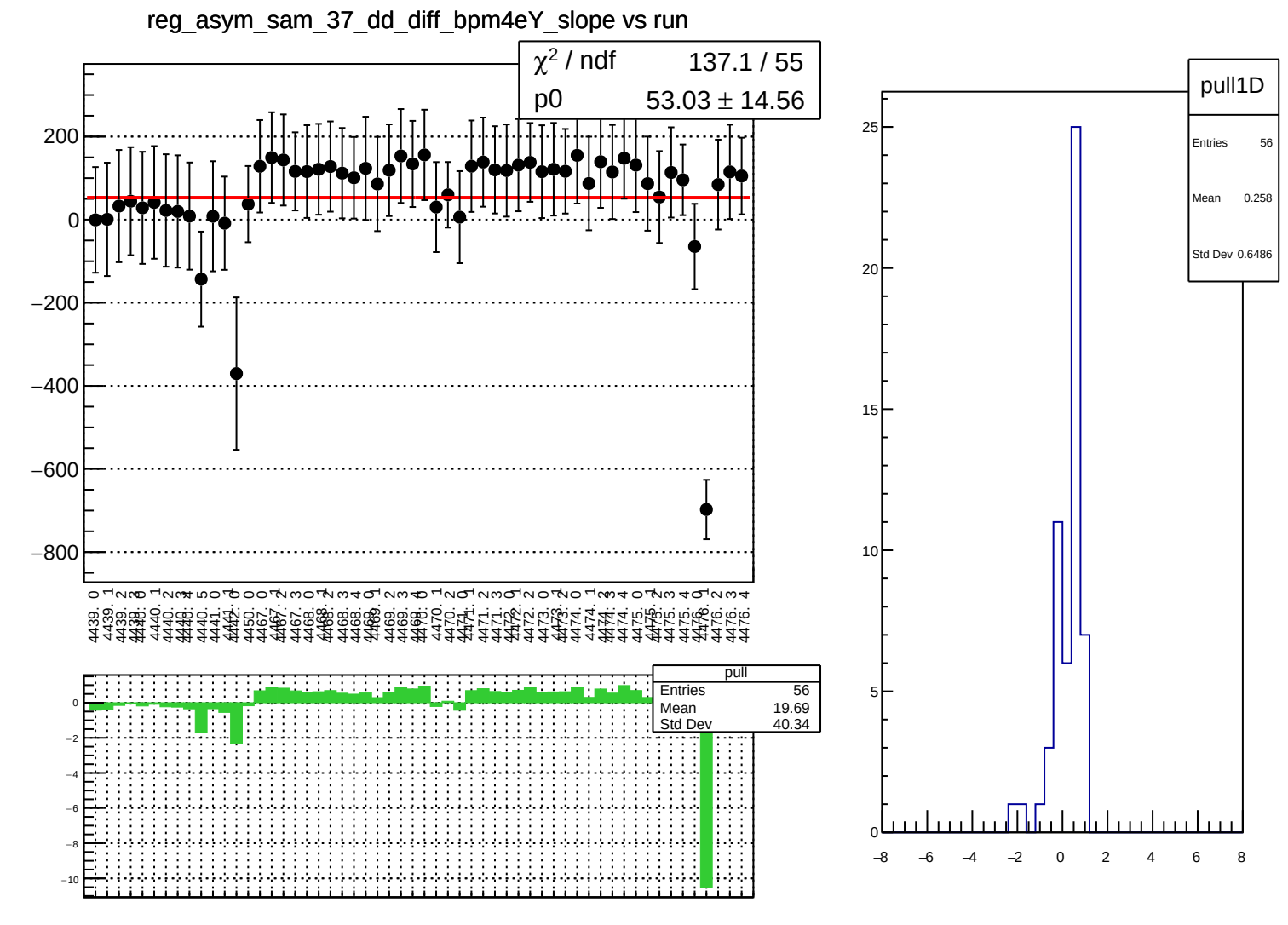

pull1D
Entries 56
Mean 0.02534
Std Dev 0.7738

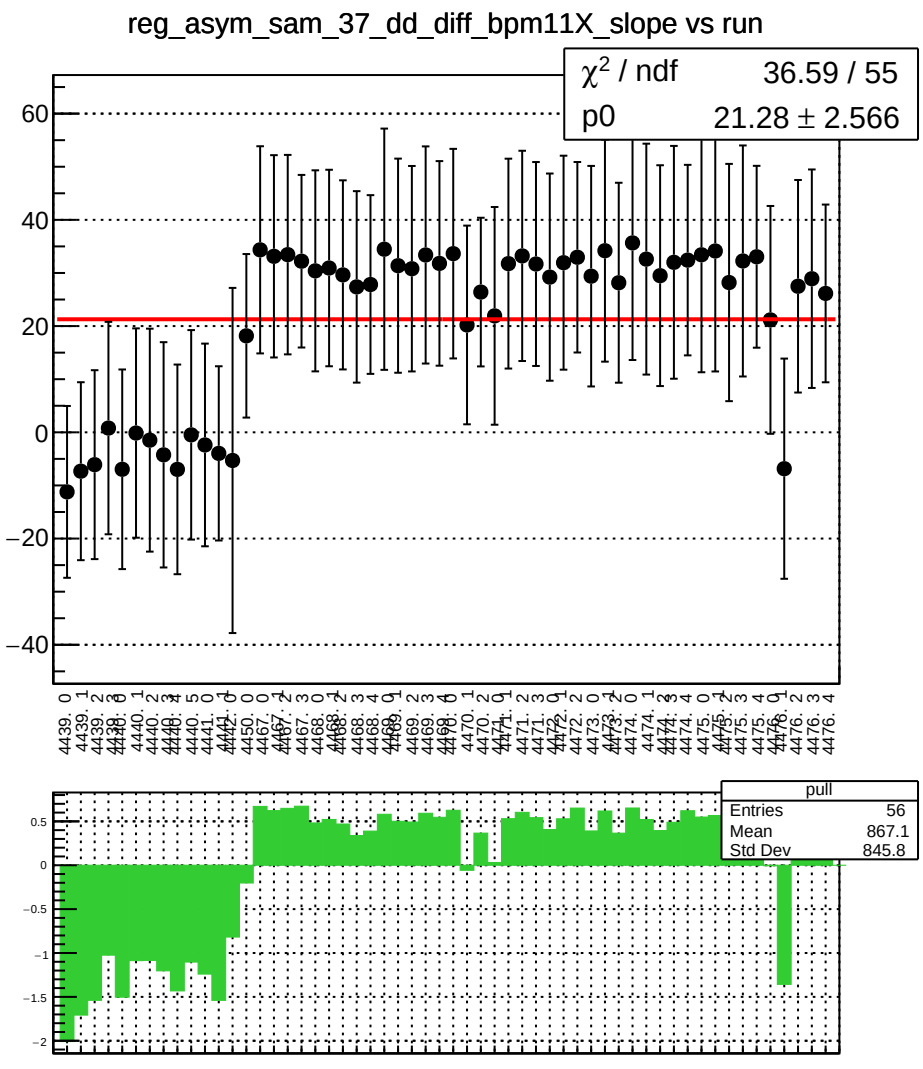

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 8.883 / 55
p0 206.4 ± 11.05
pull
Entries 56
Mean −97.36
Std Dev 126.2
pull1D
Entries 56
Mean 0.01936
Std Dev 0.3978

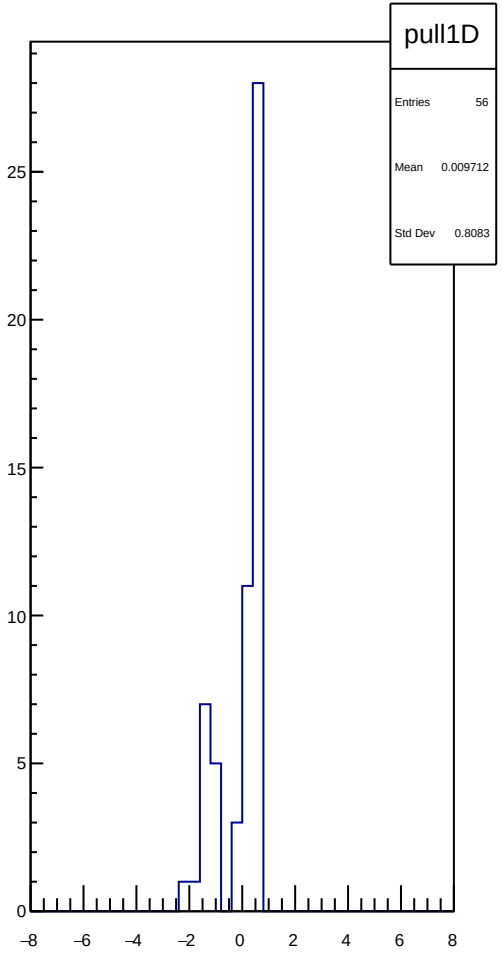

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 128.9 / 55
p0 −77.65 ± 11.95
pull
Entries 56
Mean 47.98
Std Dev 30.94
pull1D
Entries 56
Mean −0.345
Std Dev 0.8635

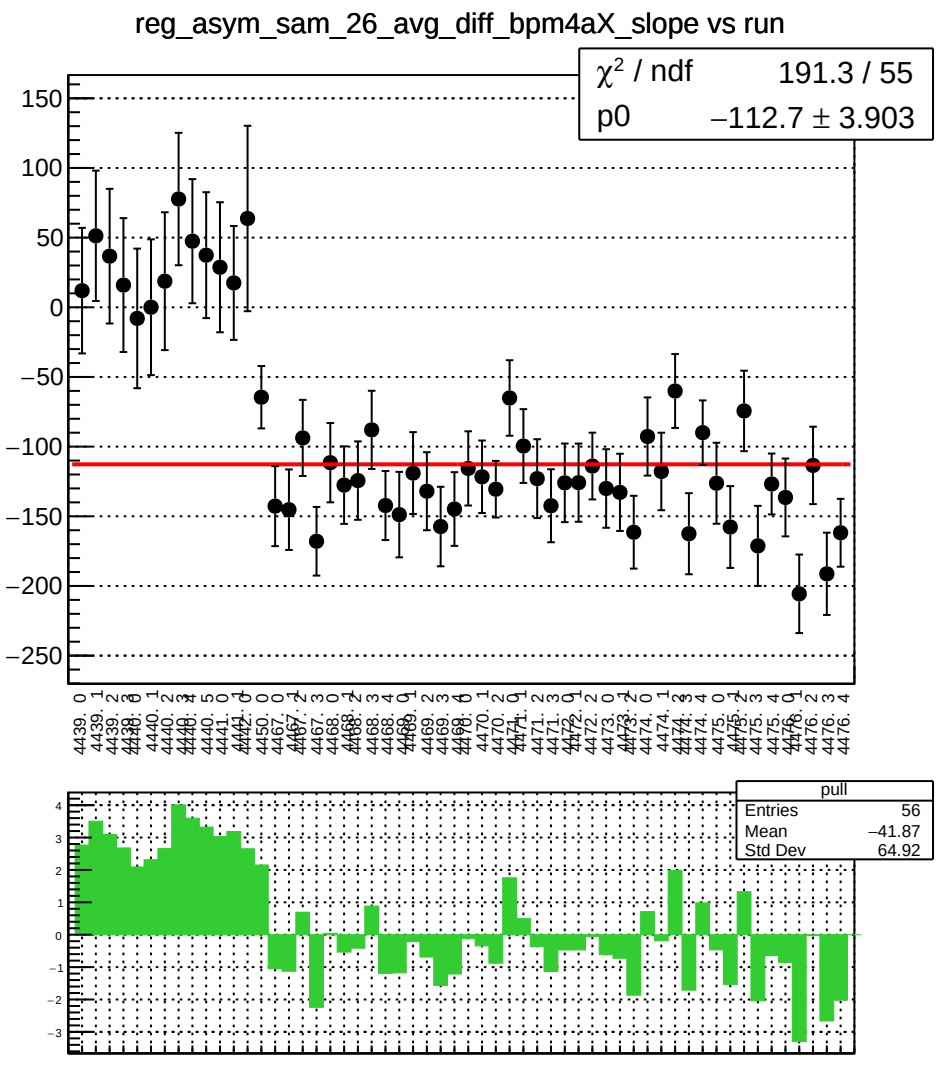

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 536.9 / 55
p0 −691.8 ± 1.933
pull
Entries 56
Mean −190.6
Std Dev 212.9

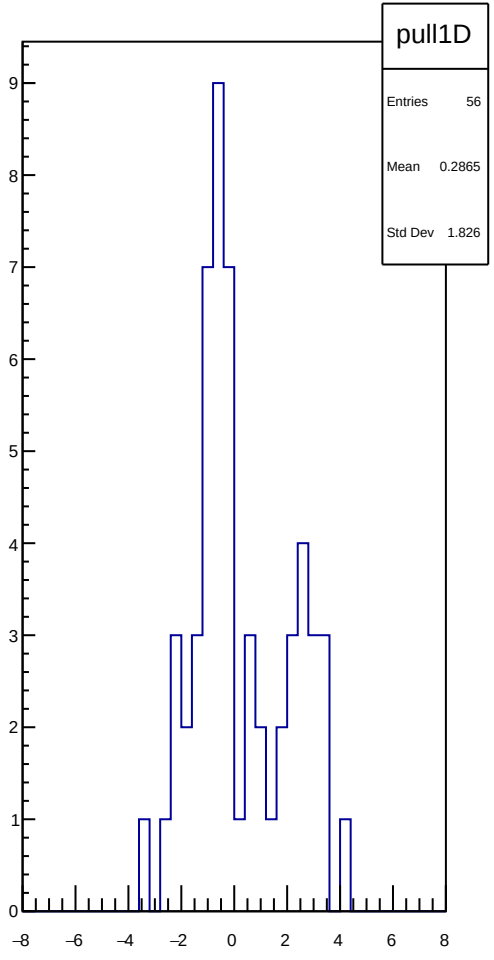

pull1D
Entries 56
Mean 0.1614
Std Dev 3.092

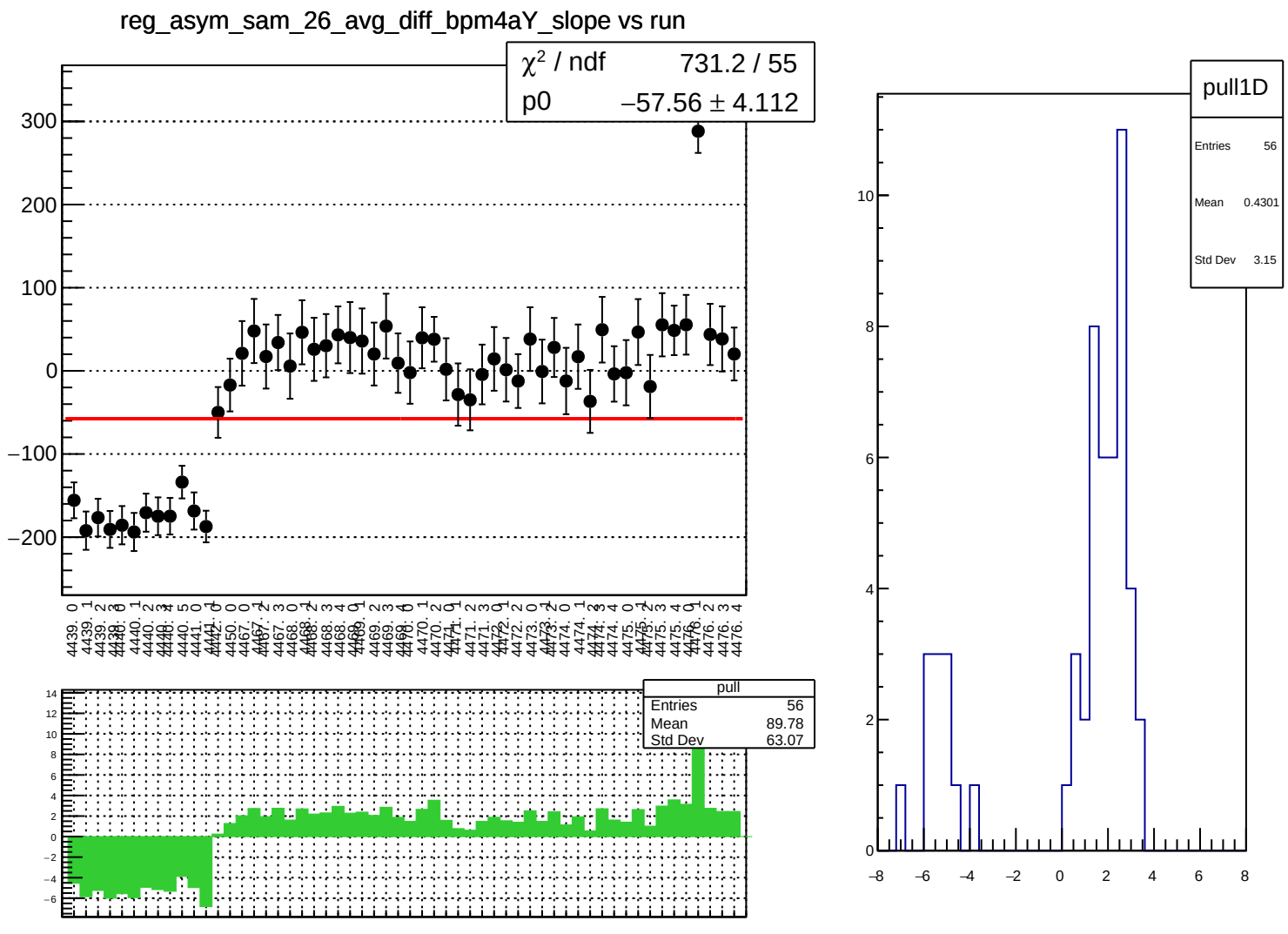

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 137.1 / 55
p0 53.03 ± 14.56
pull
Entries 56
Mean 19.69
Std Dev 40.34
pull1D
Entries 56
Mean 0.258
Std Dev 0.6486

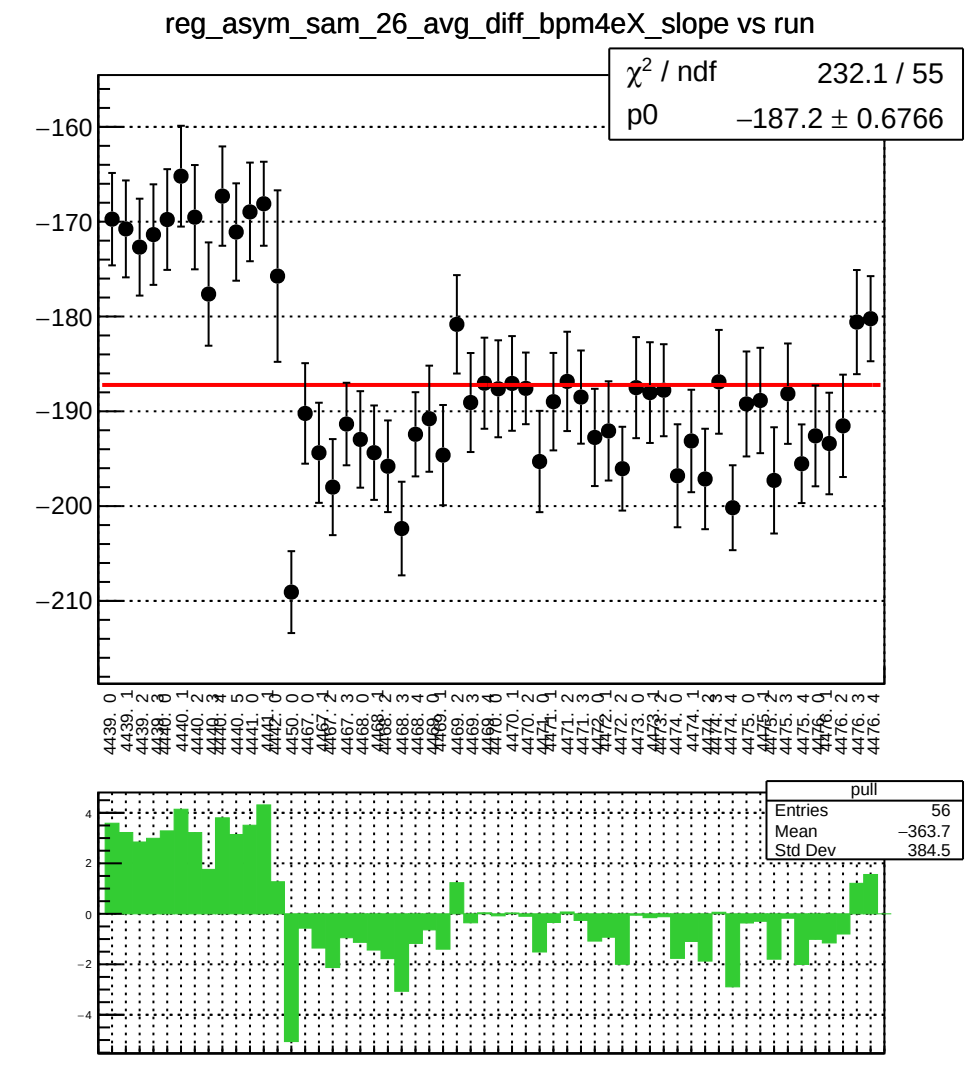

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 36.59 / 55
p0 21.28 ± 2.566
pull
Entries 56
Mean 867.1
Std Dev 845.8

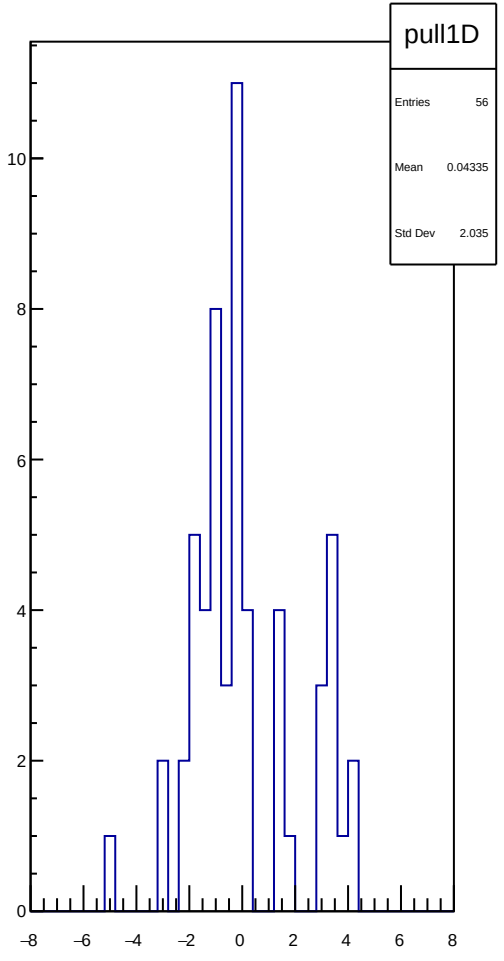

pull1D
Entries 56
Mean 0.009712
Std Dev 0.8083

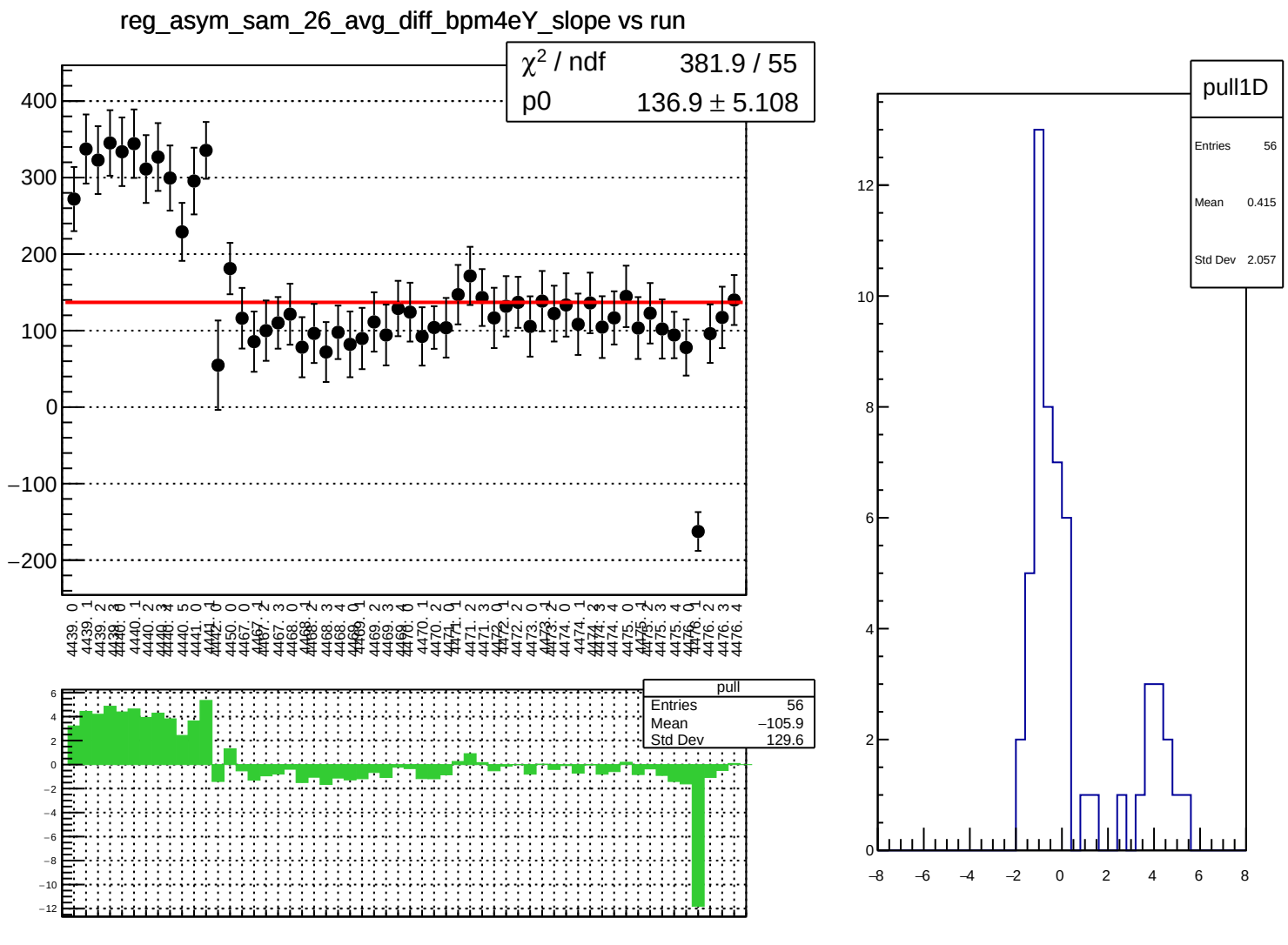

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 191.3 / 55
p0 −112.7 ± 3.903
pull
Entries 56
Mean −41.87
Std Dev 64.92

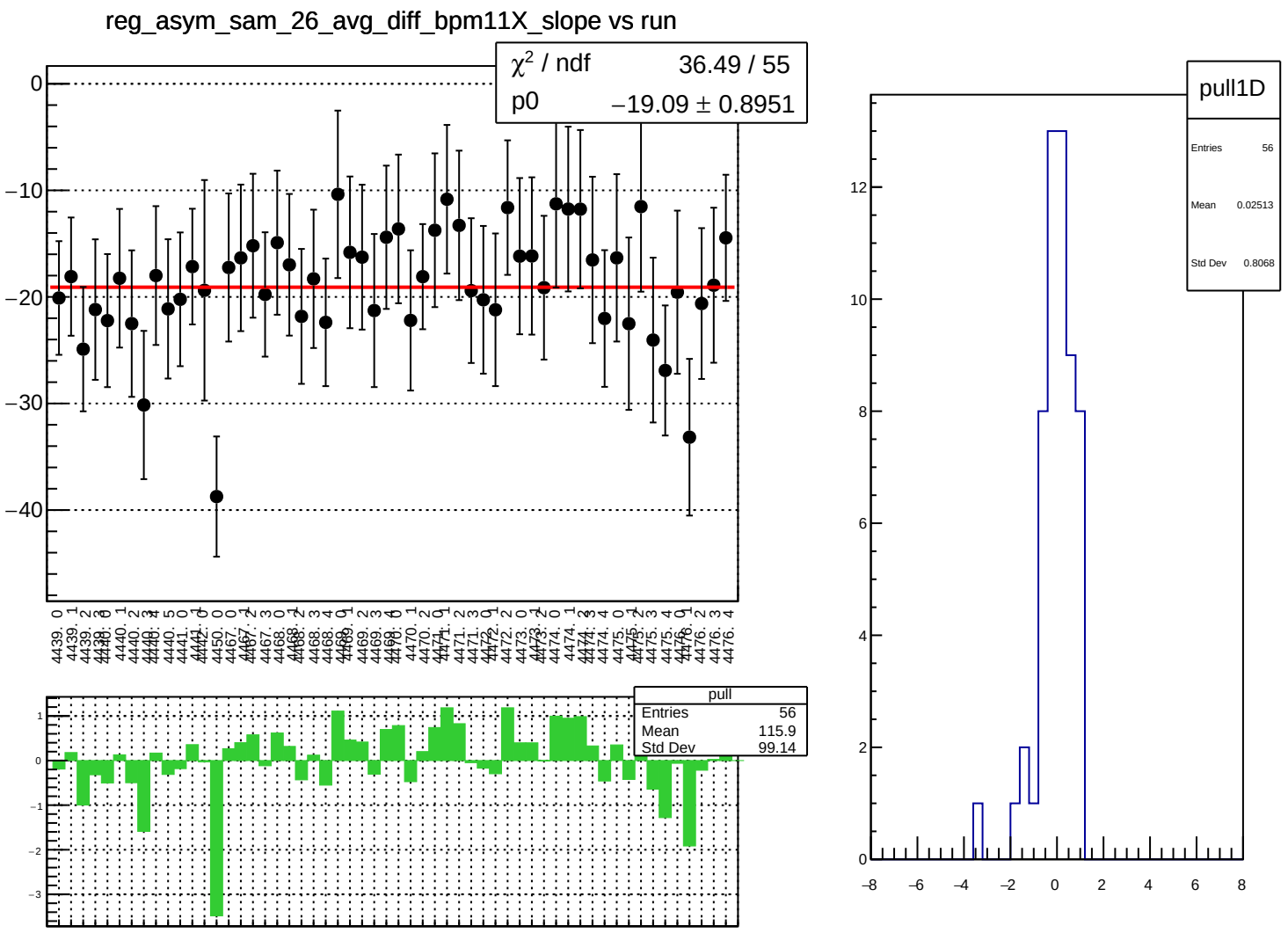

pull1D
Entries 56
Mean 0.2865
Std Dev 1.826

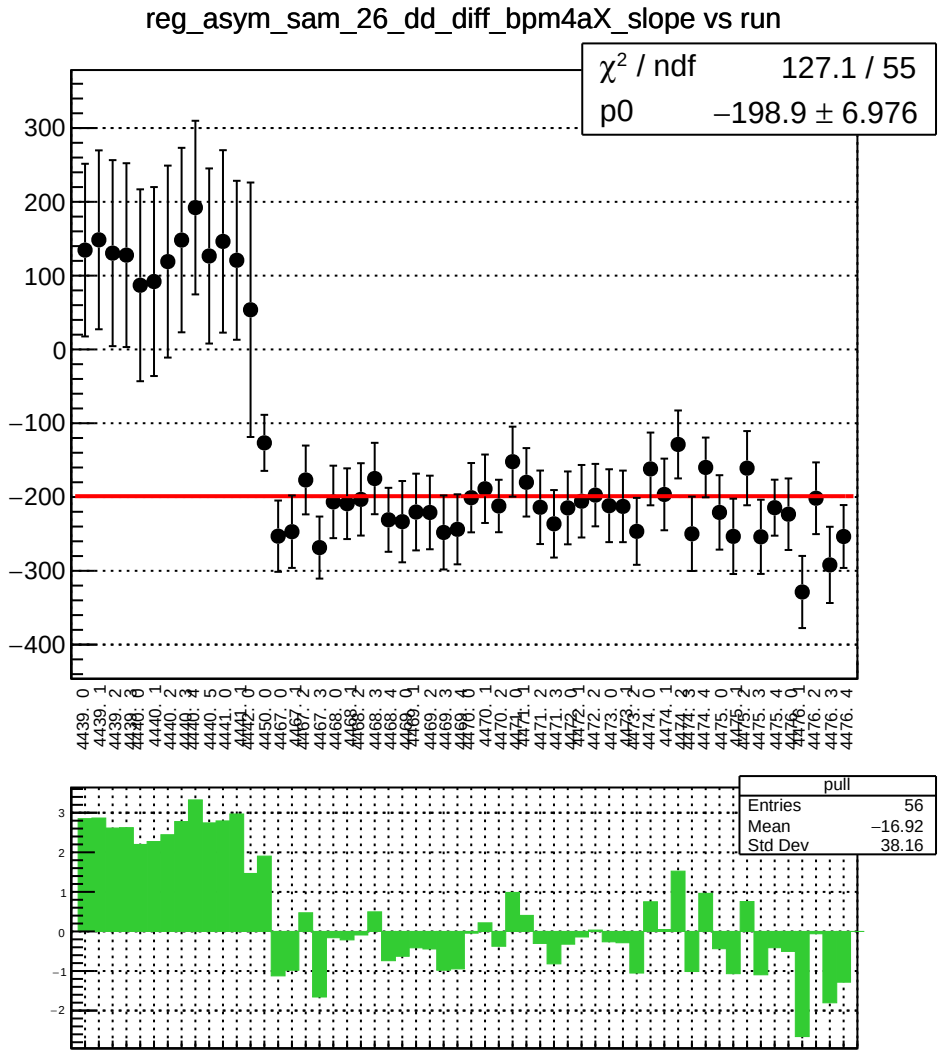

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 731.2 / 55
p0 −57.56 ± 4.112
300
200
100
0
−100
−200
pull
Entries 56
Mean 89.78
Std Dev 63.07
pull1D
Entries 56
Mean 0.4301
Std Dev 3.15

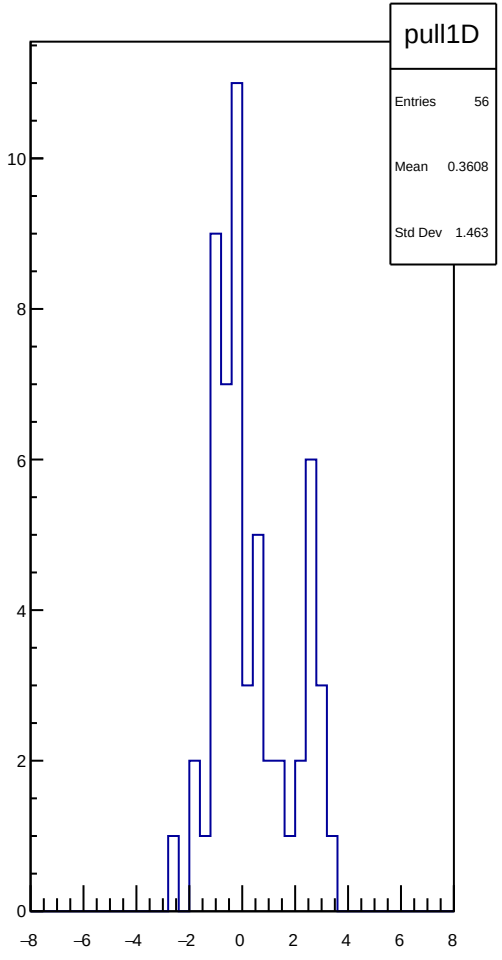

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 232.1 / 55
p0 −187.2 ± 0.6766
pull
Entries 56
Mean −363.7
Std Dev 384.5

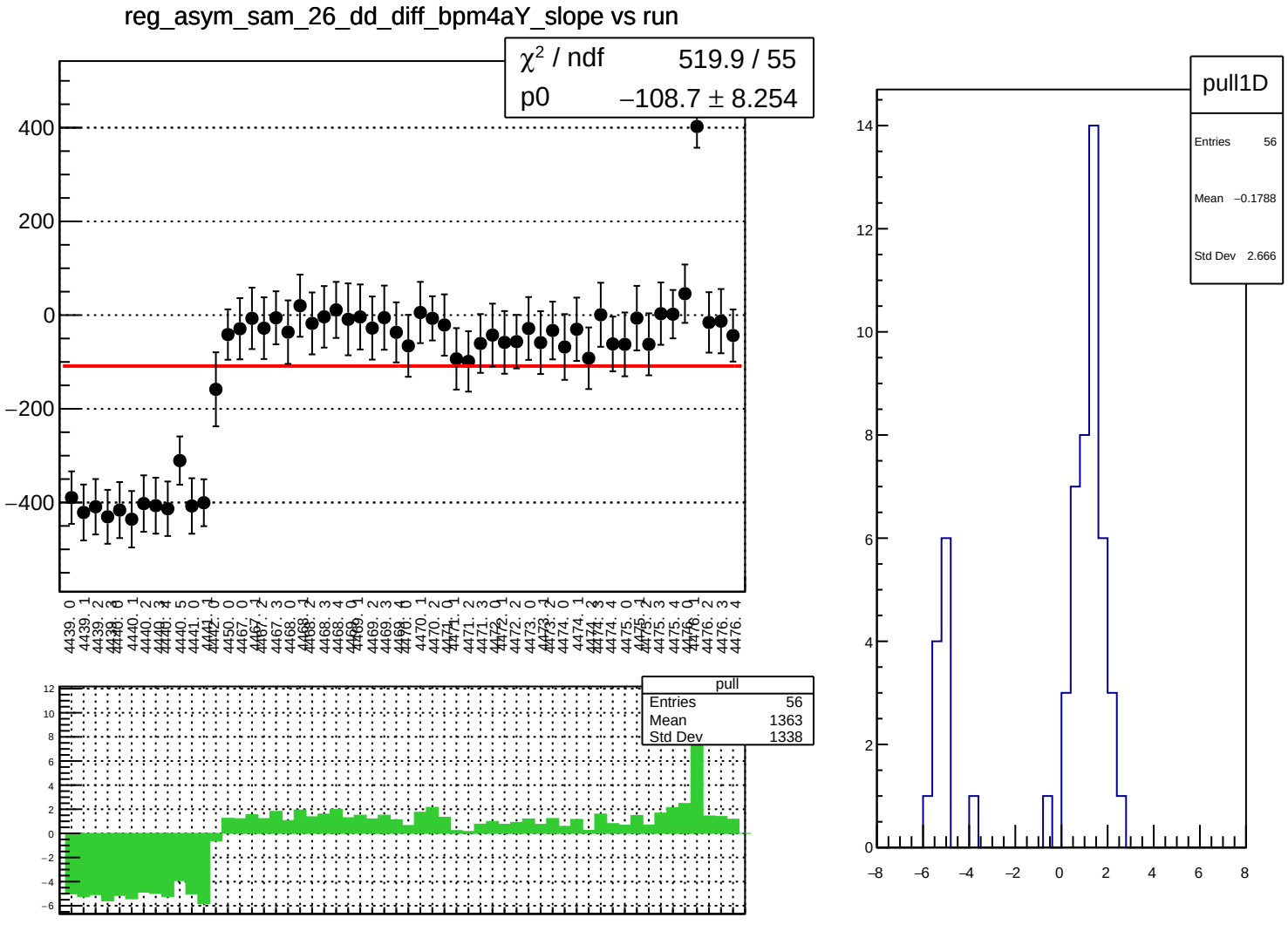

pull1D
Entries 56
Mean 0.04335
Std Dev 2.035

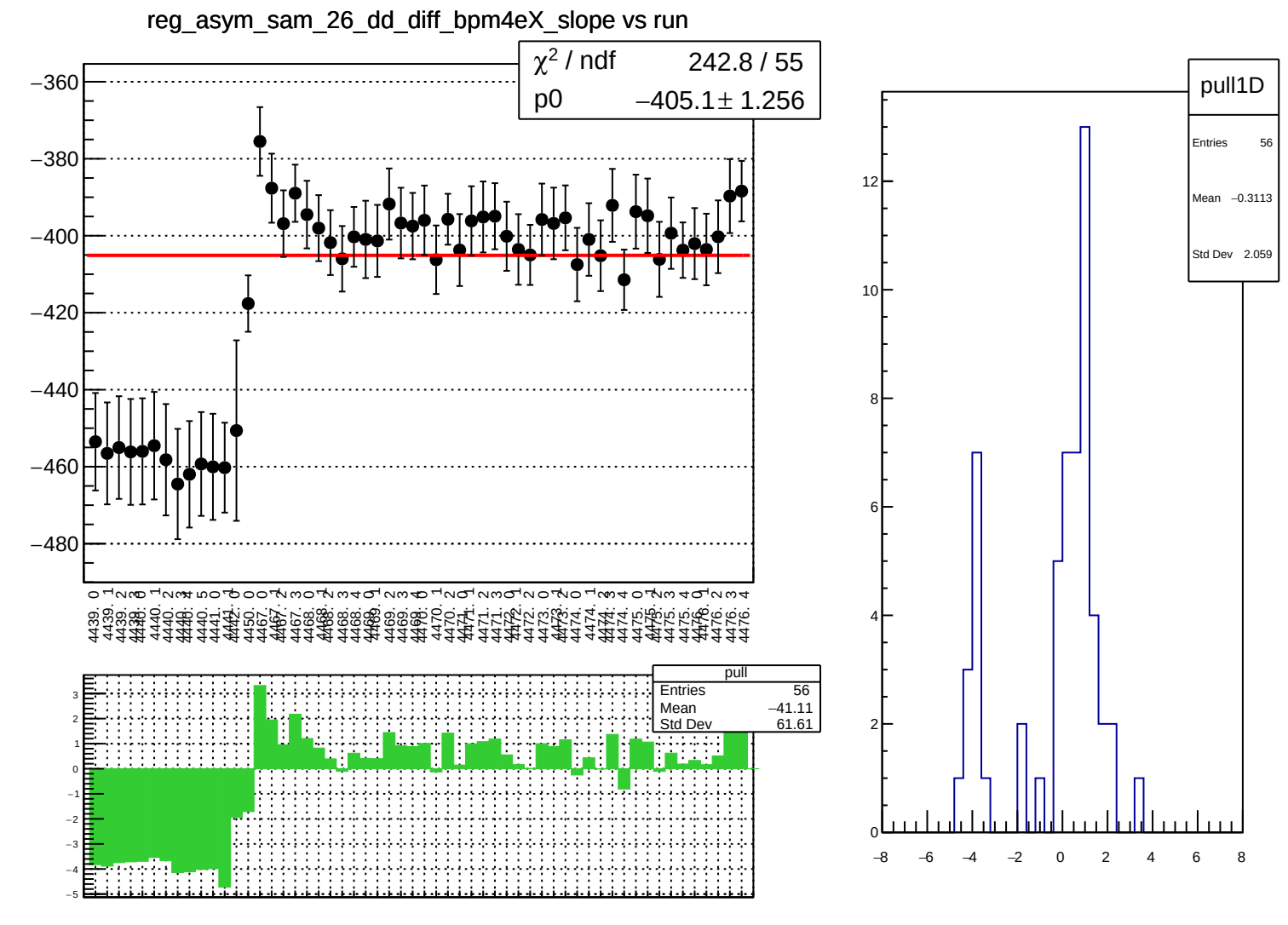

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 381.9 / 55
p0 136.9 ± 5.108
pull
Entries 56
Mean −105.9
Std Dev 129.6
pull1D
Entries 56
Mean 0.415
Std Dev 2.057

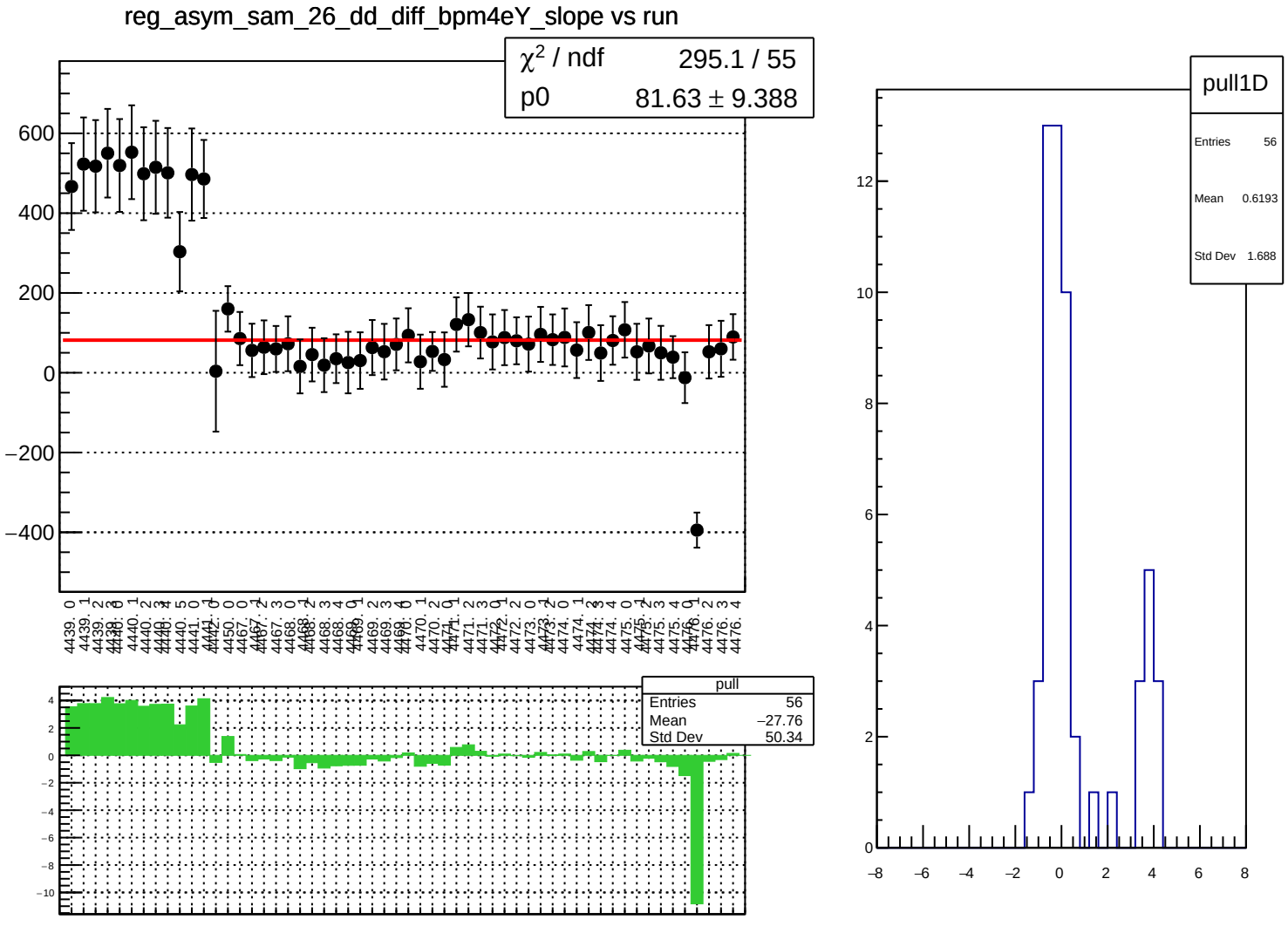

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 36.49 / 55
p0 −19.09 ± 0.8951
pull
Entries 56
Mean 115.9
Std Dev 99.14
pull1D
Entries 56
Mean 0.02513
Std Dev 0.8068

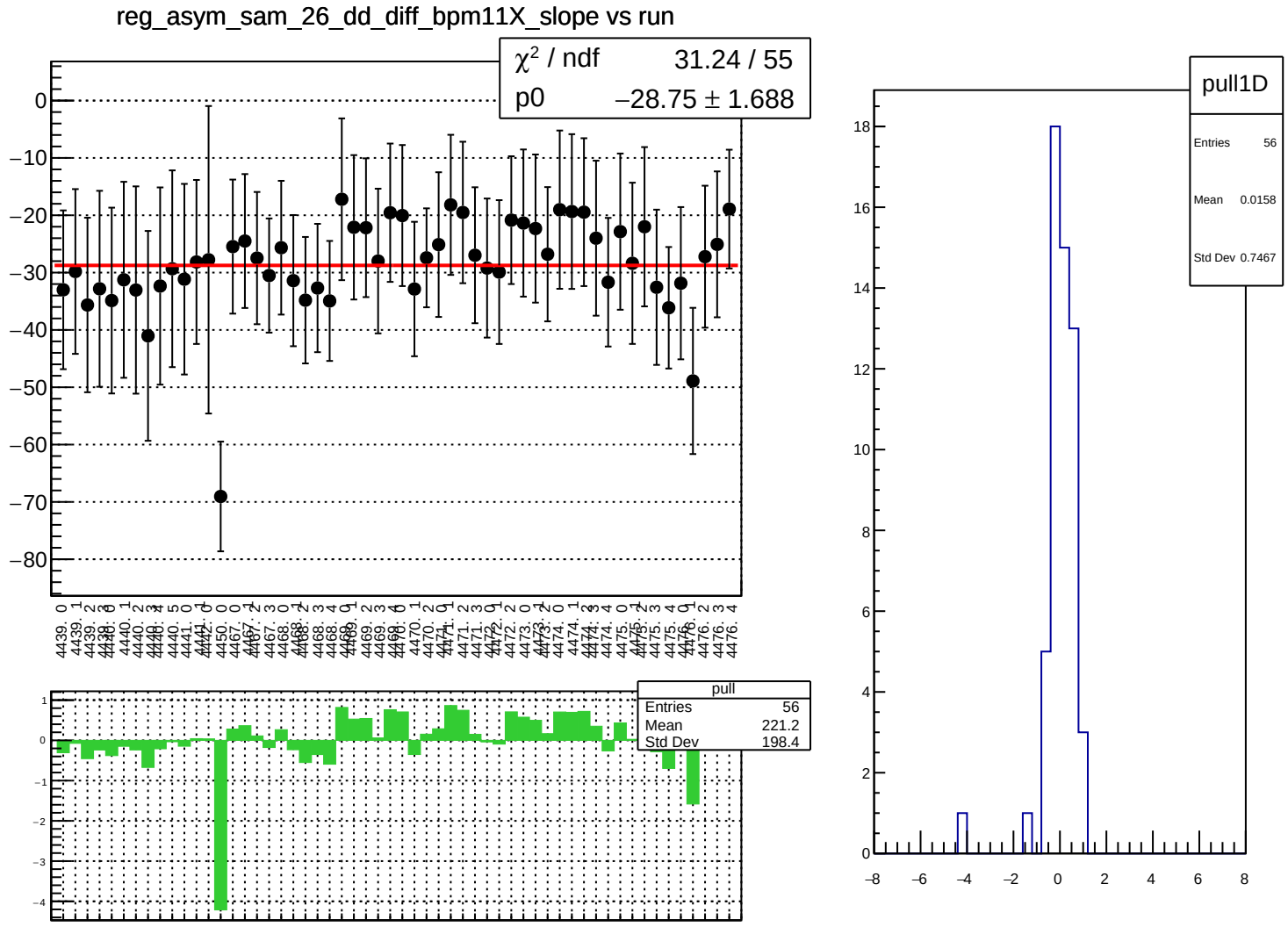

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 127.1 / 55
p0 −198.9 ± 6.976
pull
Entries 56
Mean −16.92
Std Dev 38.16

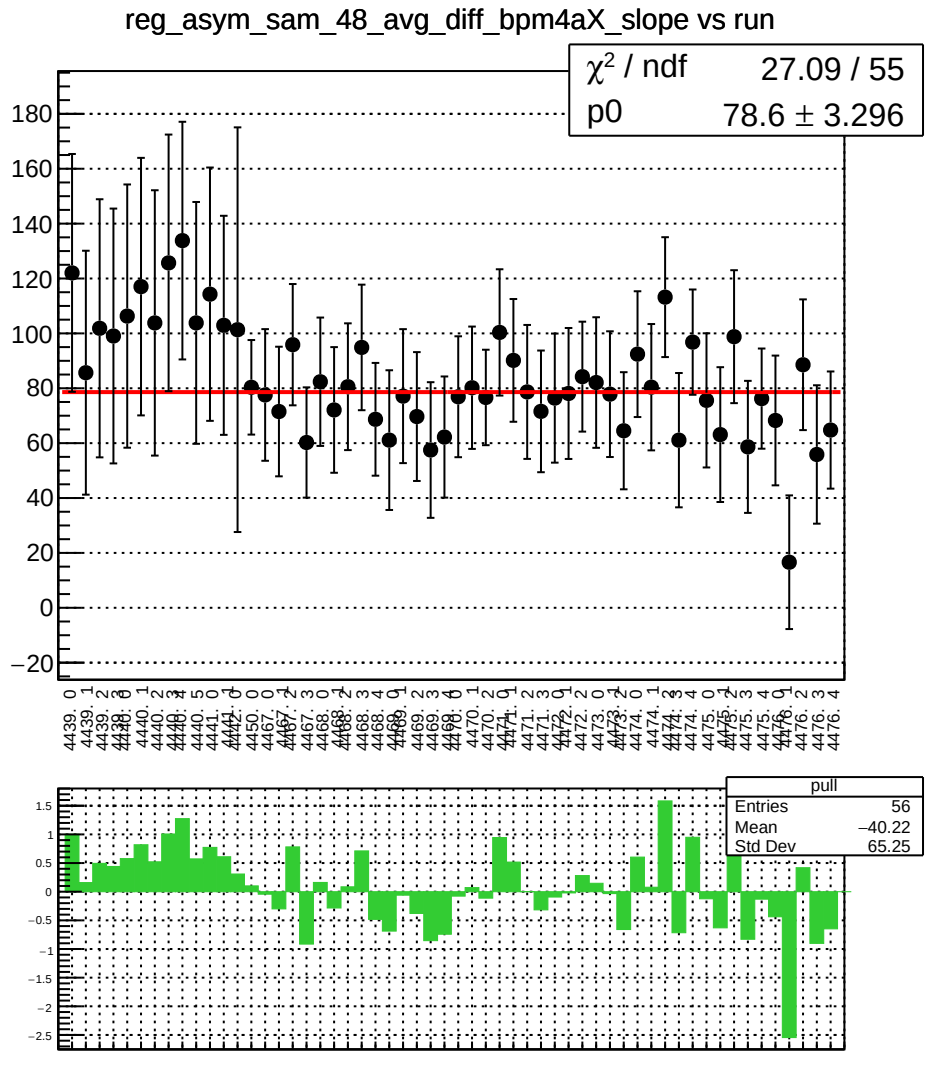

pull1D
Entries 56
Mean 0.3608
Std Dev 1.463

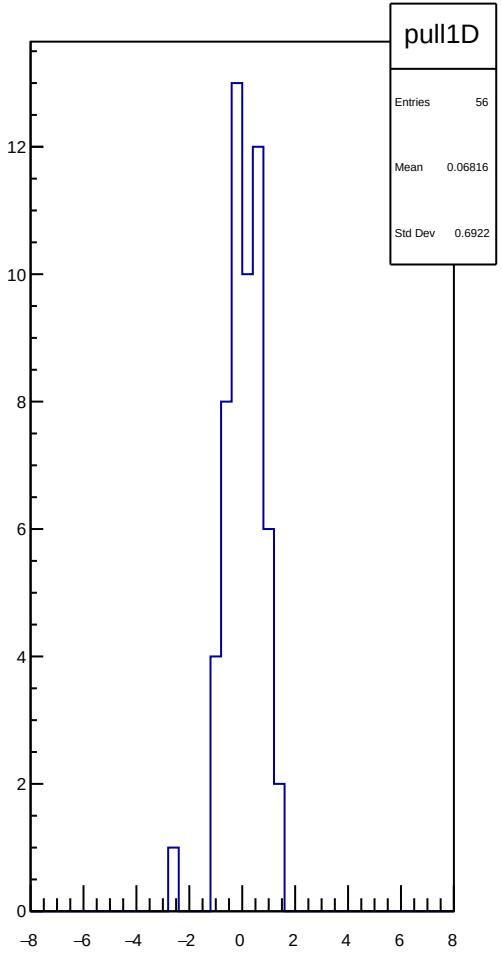

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 519.9 / 55
p0 −108.7 ± 8.254
400
200
0
−200
−400
pull
Entries 56
Mean 1363
Std Dev 1338
pull1D
Entries 56
Mean −0.1788
Std Dev 2.666

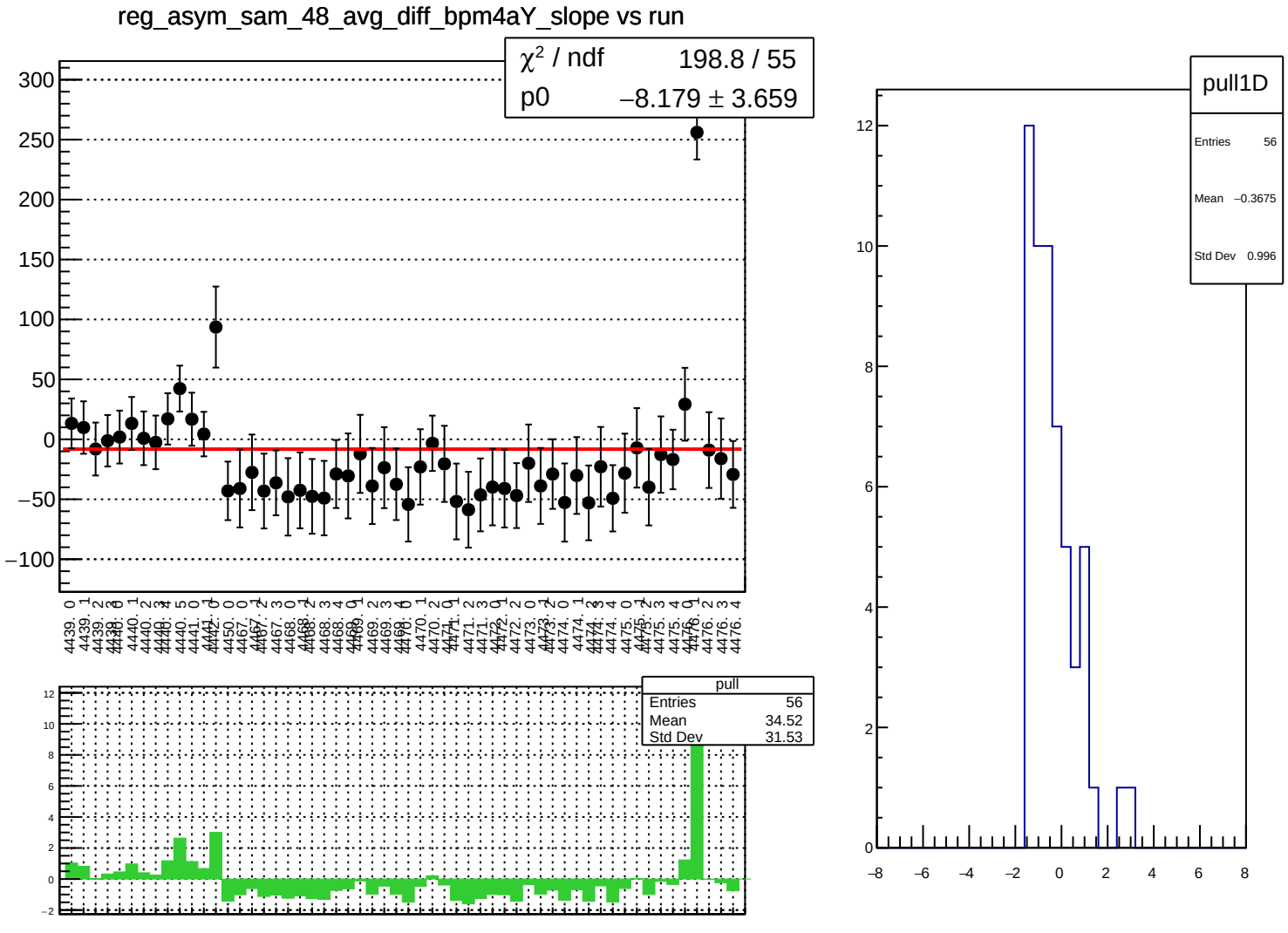

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 242.8 / 55
p0 −405.1± 1.256
pull
Entries 56
Mean −41.11
Std Dev 61.61
pull1D
Entries 56
Mean −0.3113
Std Dev 2.059

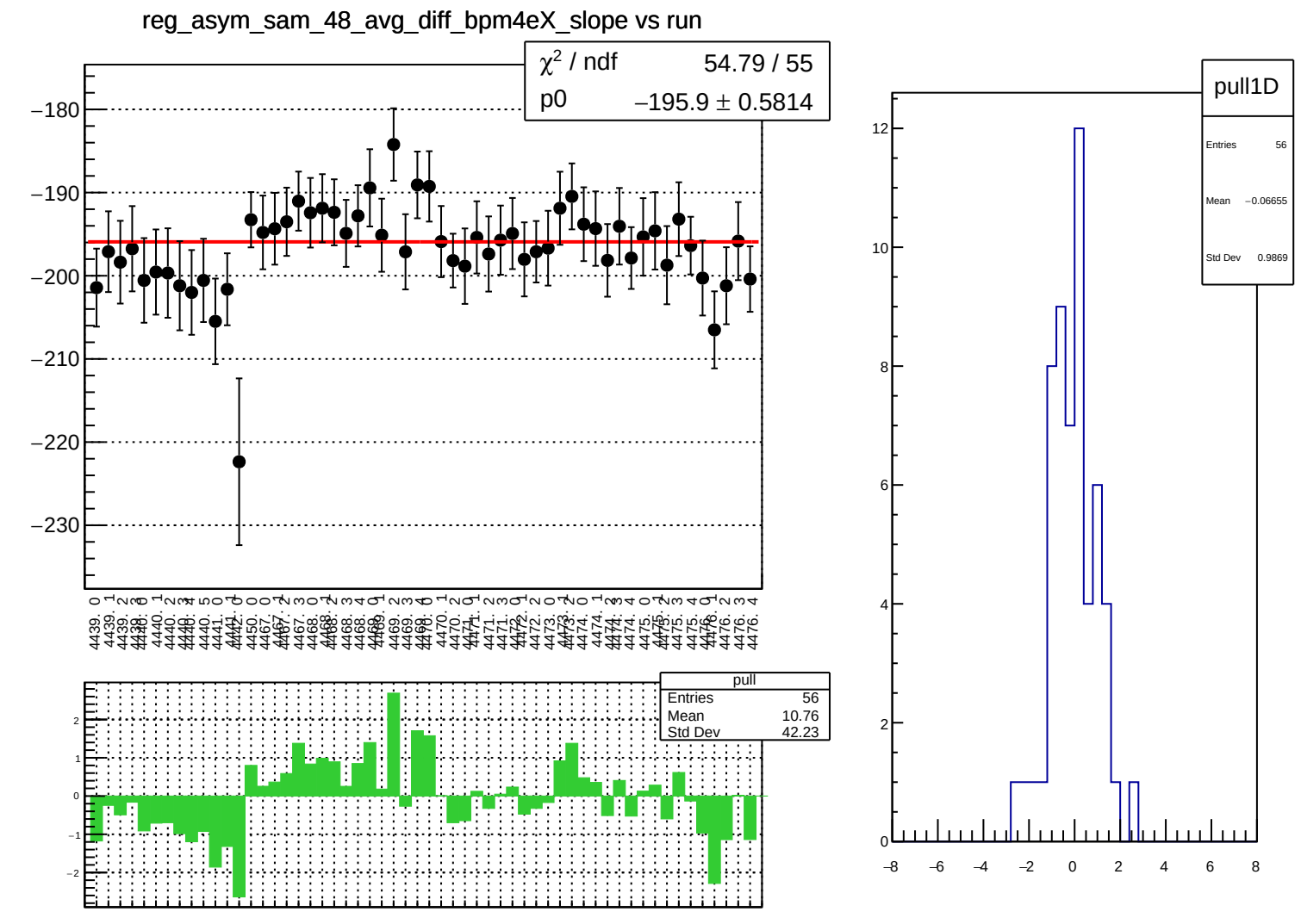

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 295.1 / 55
p0 81.63 ± 9.388
pull
Entries 56
Mean −27.76
Std Dev 50.34
pull1D
Entries 56
Mean 0.6193
Std Dev 1.688

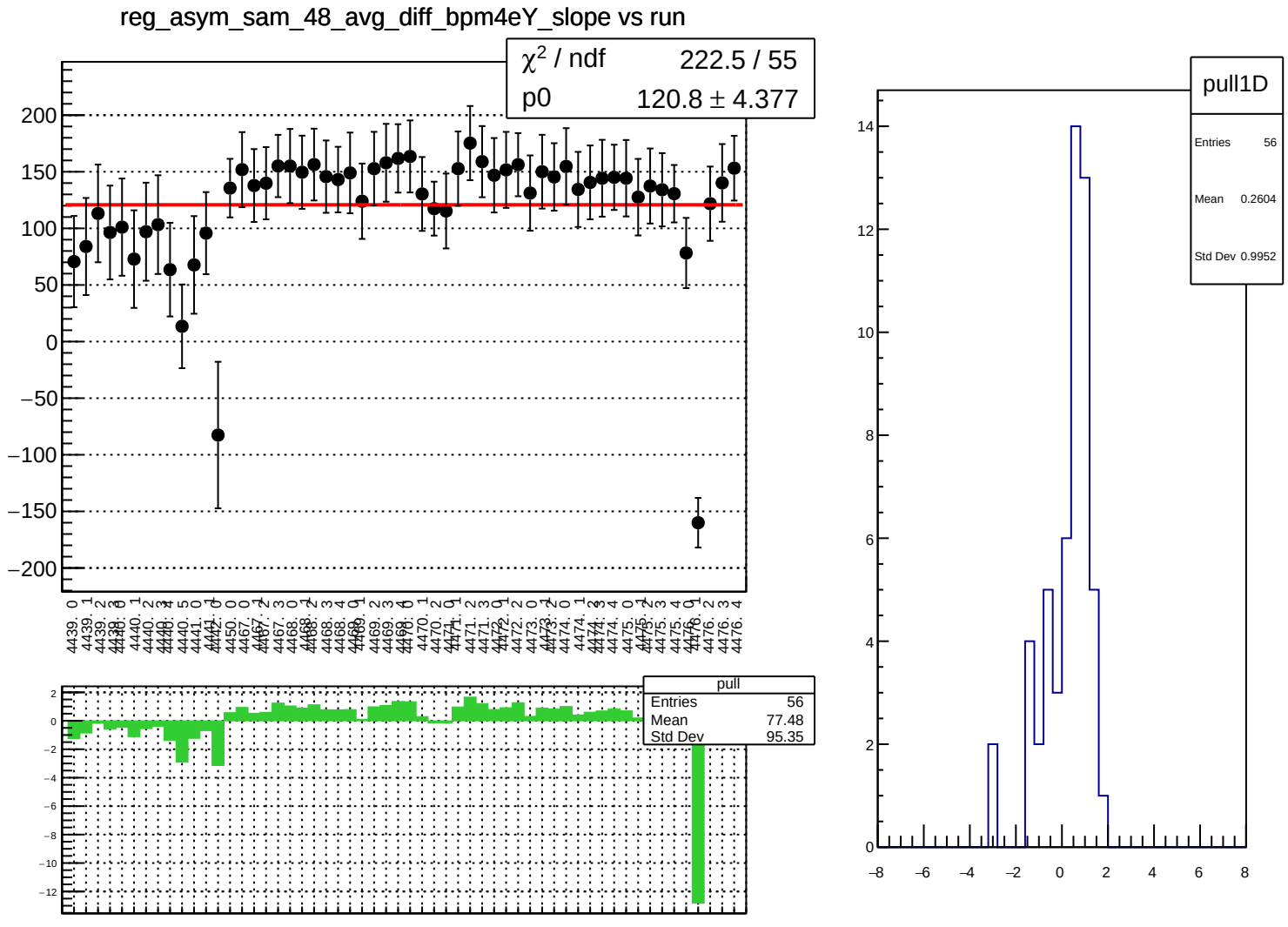

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 31.24 / 55
p0 −28.75 ± 1.688
pull
Entries 56
Mean 221.2
Std Dev 198.4
pull1D
Entries 56
Mean 0.0158
Std Dev 0.7467

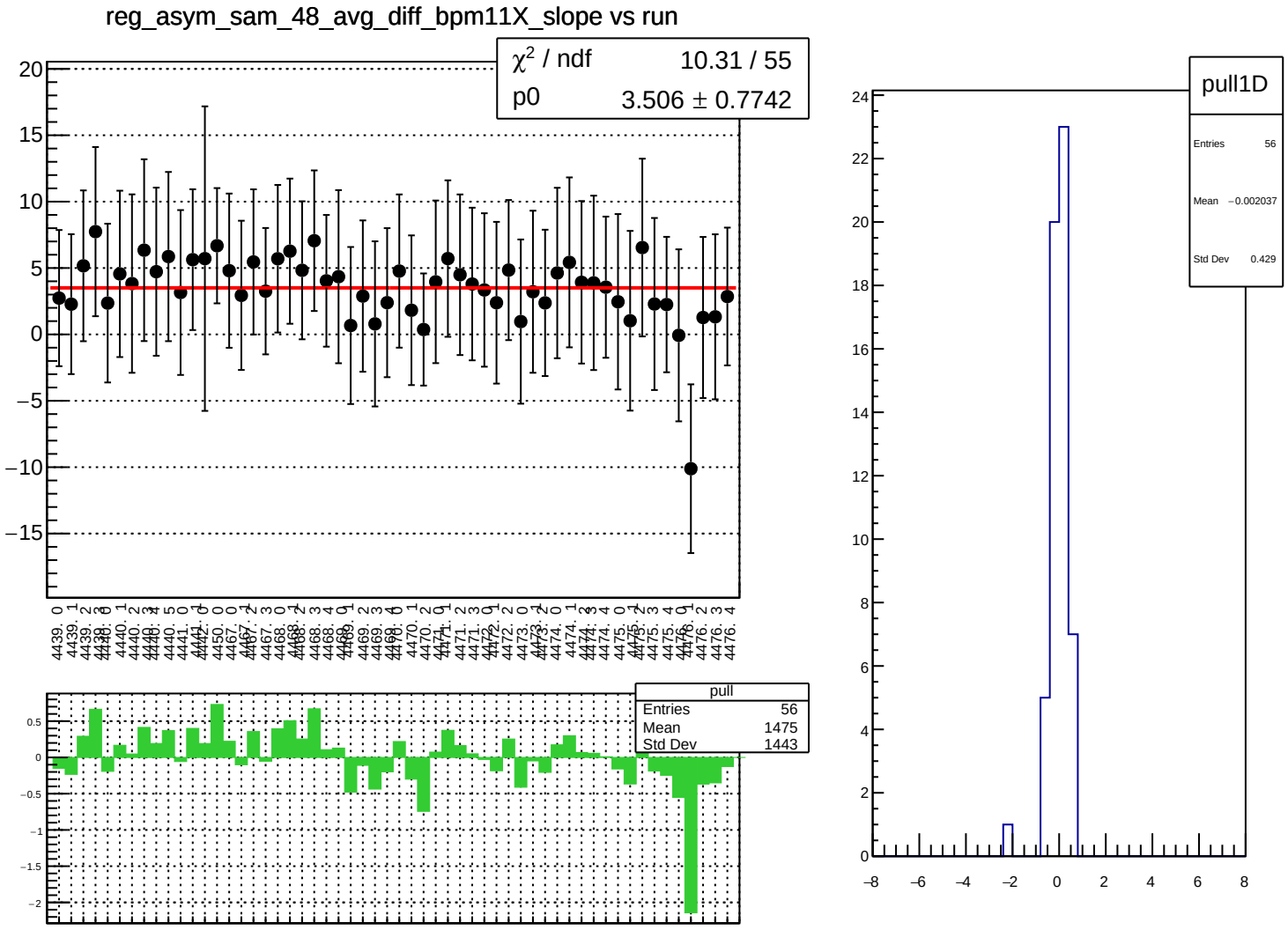

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 27.09 / 55
p0 78.6 ± 3.296
pull
Entries 56
Mean −40.22
Std Dev 65.25

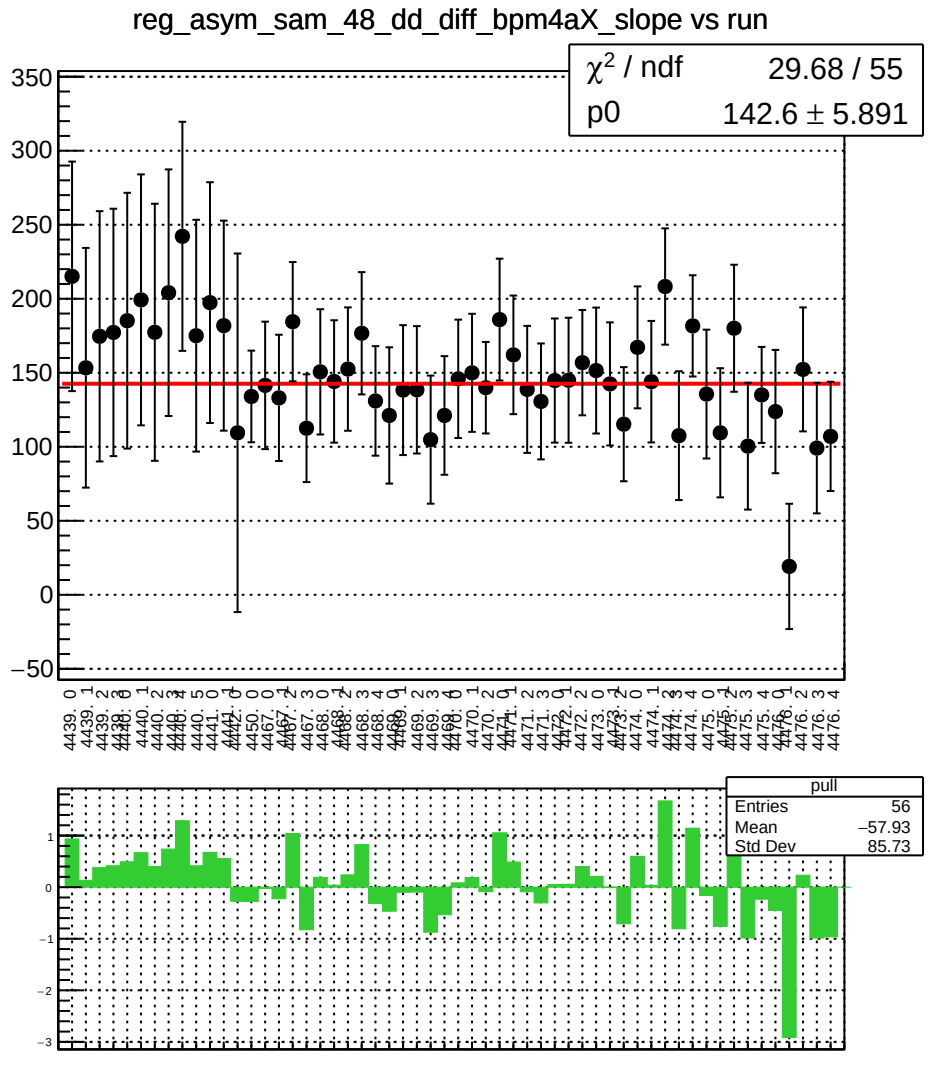

pull1D
Entries 56
Mean 0.06816
Std Dev 0.6922

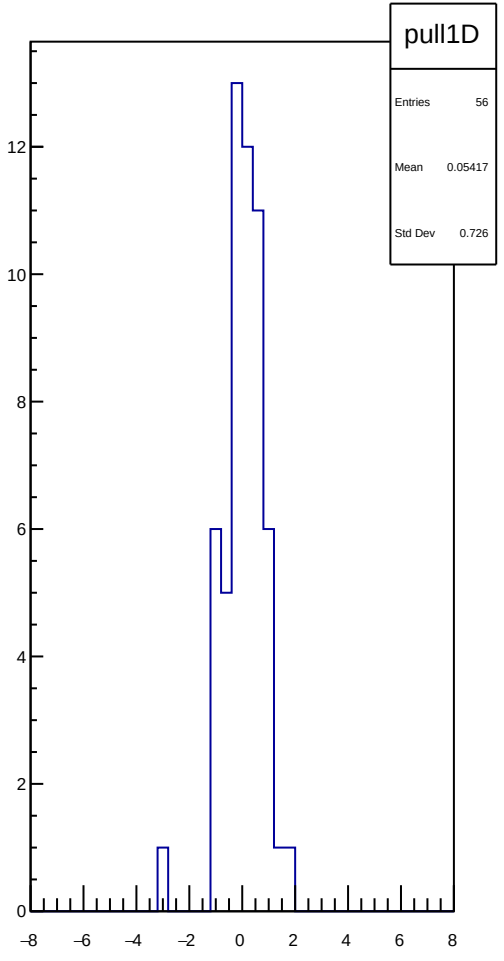

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 198.8 / 55
p0 −8.179 ± 3.659
pull
Entries 56
Mean 34.52
Std Dev 31.53
pull1D
Entries 56
Mean −0.3675
Std Dev 0.996

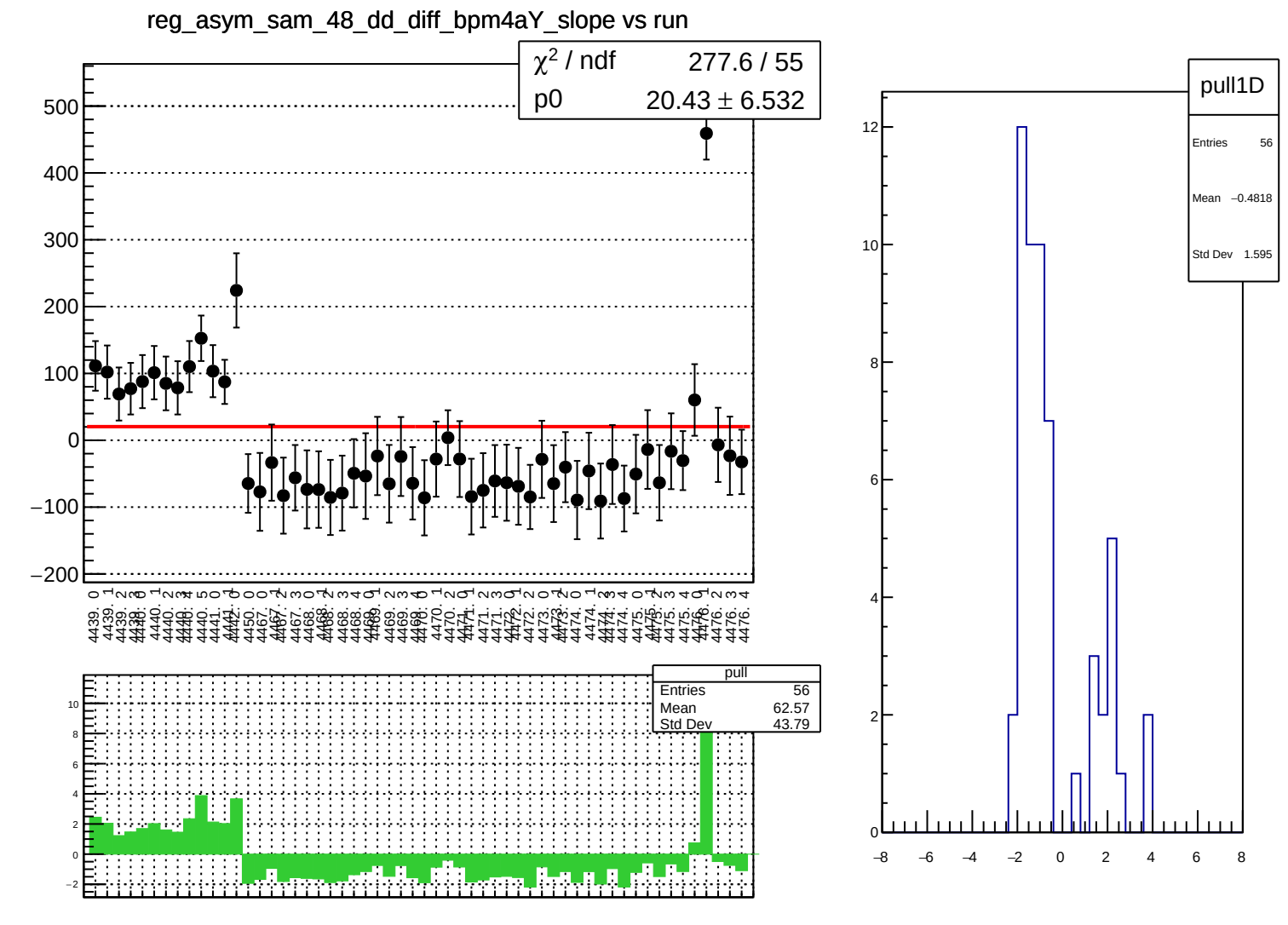

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.79 / 55
p0 −195.9 ± 0.5814
−180
−190
−200
−210
−220
−230
pull
Entries 56
Mean 10.76
Std Dev 42.23
pull1D
Entries 56
Mean −0.06655
Std Dev 0.9869

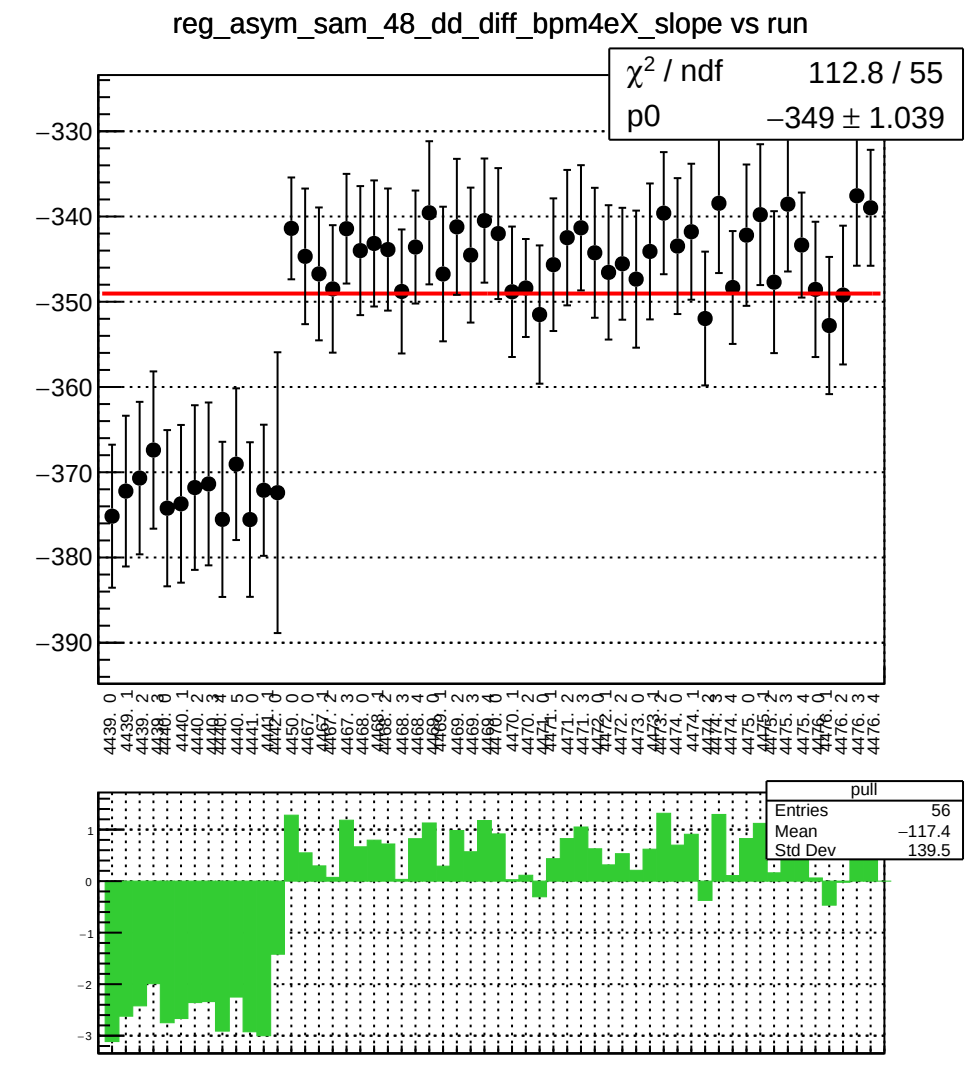

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 222.5 / 55
p0 120.8 ± 4.377
pull
Entries 56
Mean 77.48
Std Dev 95.35
pull1D
Entries 56
Mean 0.2604
Std Dev 0.9952

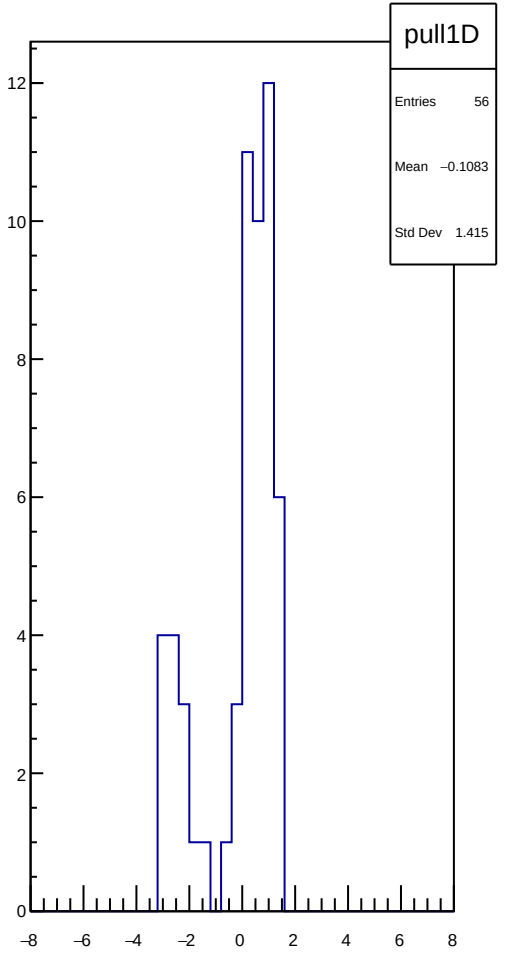

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 10.31 / 55
p0 3.506 ± 0.7742
pull
Entries 56
Mean 1475
Std Dev 1443
pull1D
Entries 56
Mean −0.002037
Std Dev 0.429

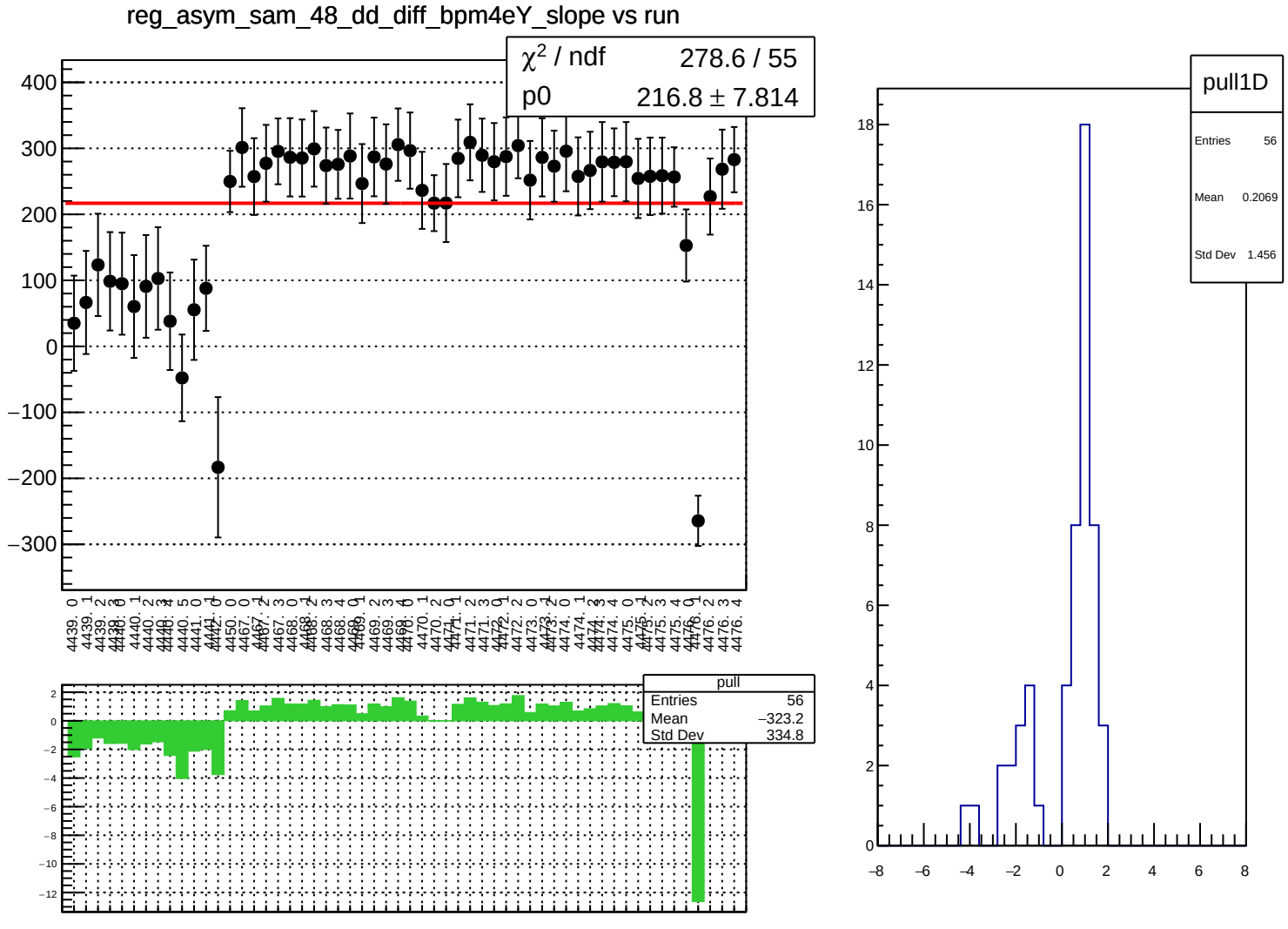

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 29.68 / 55
p0 142.6 ± 5.891
pull
Entries 56
Mean −57.93
Std Dev 85.73

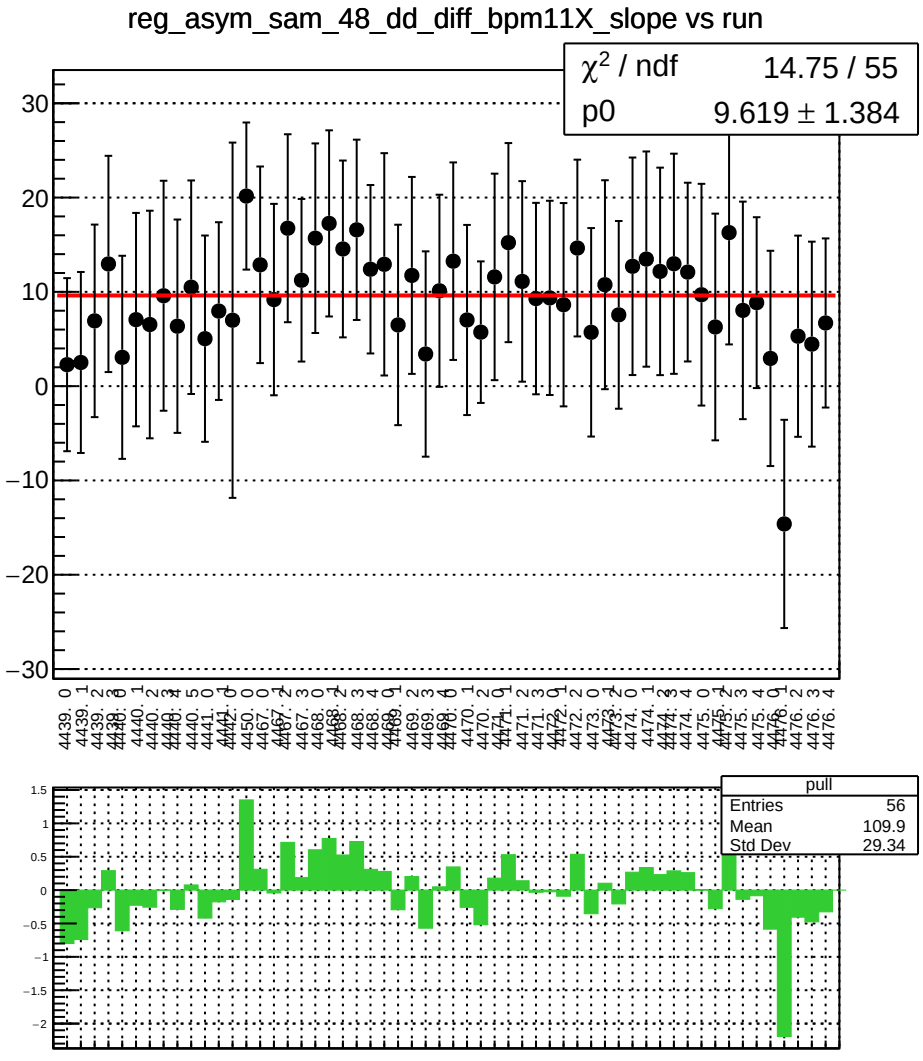

pull1D
Entries 56
Mean 0.05417
Std Dev 0.726

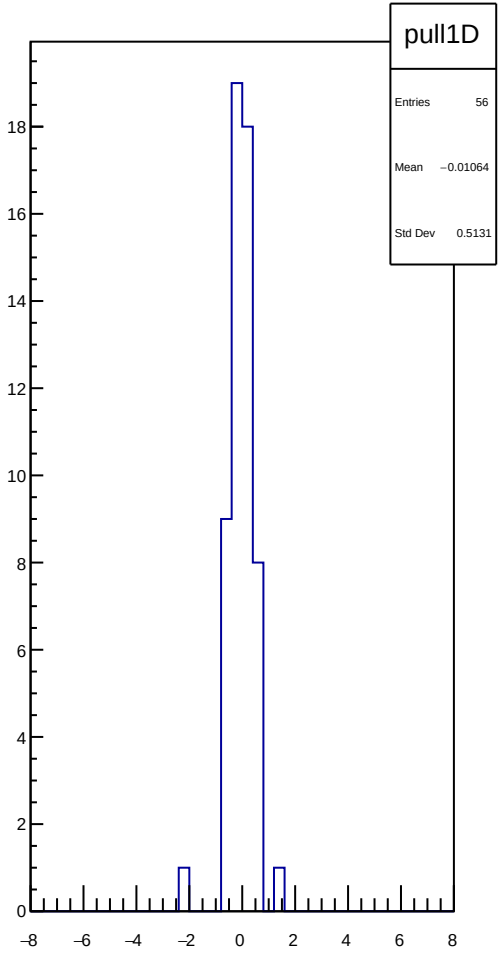

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 277.6 / 55
p0 20.43 ± 6.532
pull
Entries 56
Mean 62.57
Std Dev 43.79
pull1D
Entries 56
Mean −0.4818
Std Dev 1.595

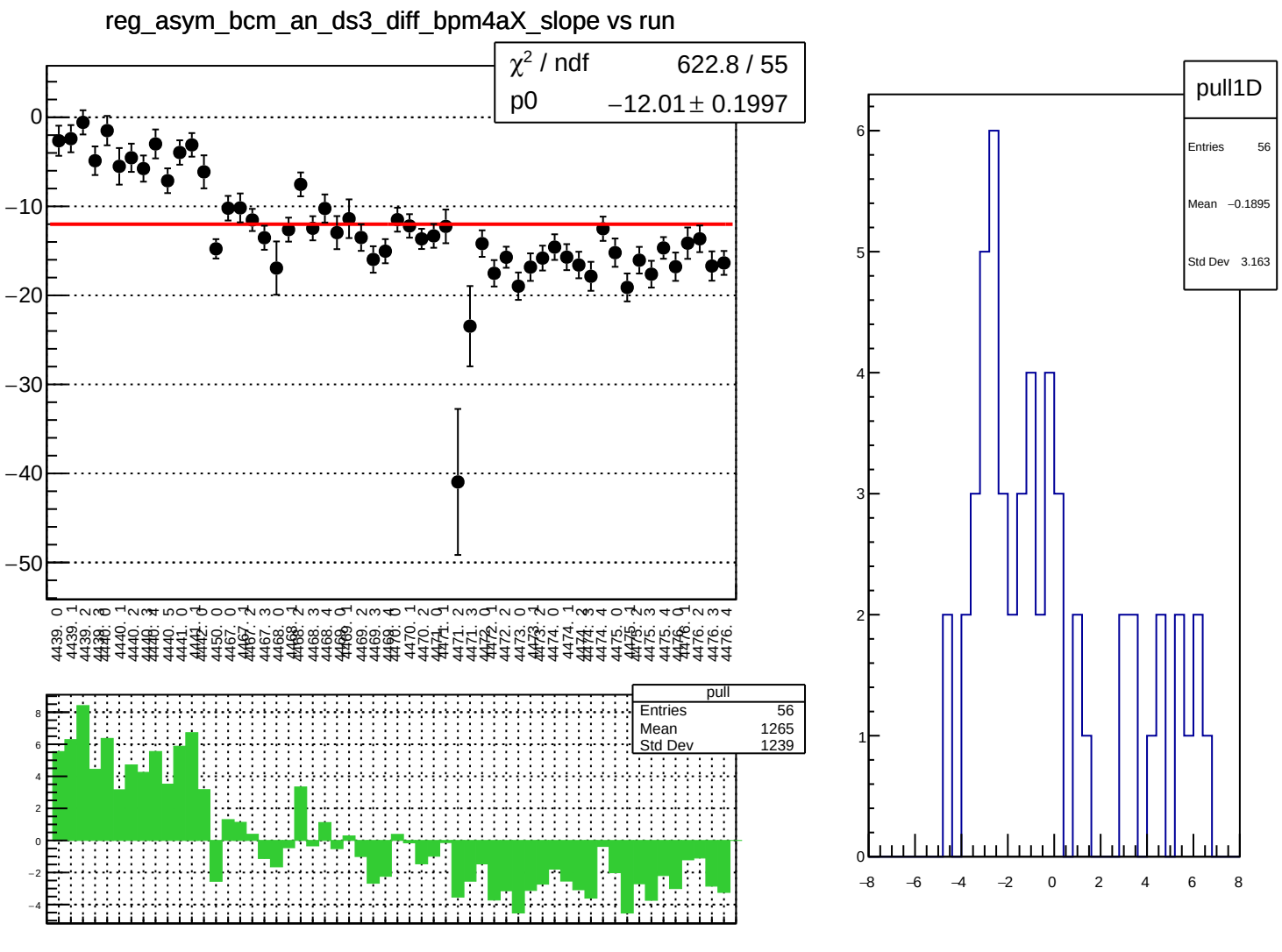

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 112.8 / 55
p0 −349 ± 1.039
−330
−340
−350
−360
−370
−380
−390
pull
Entries 56
Mean −117.4
Std Dev 139.5
1
0
−1
−2
−3

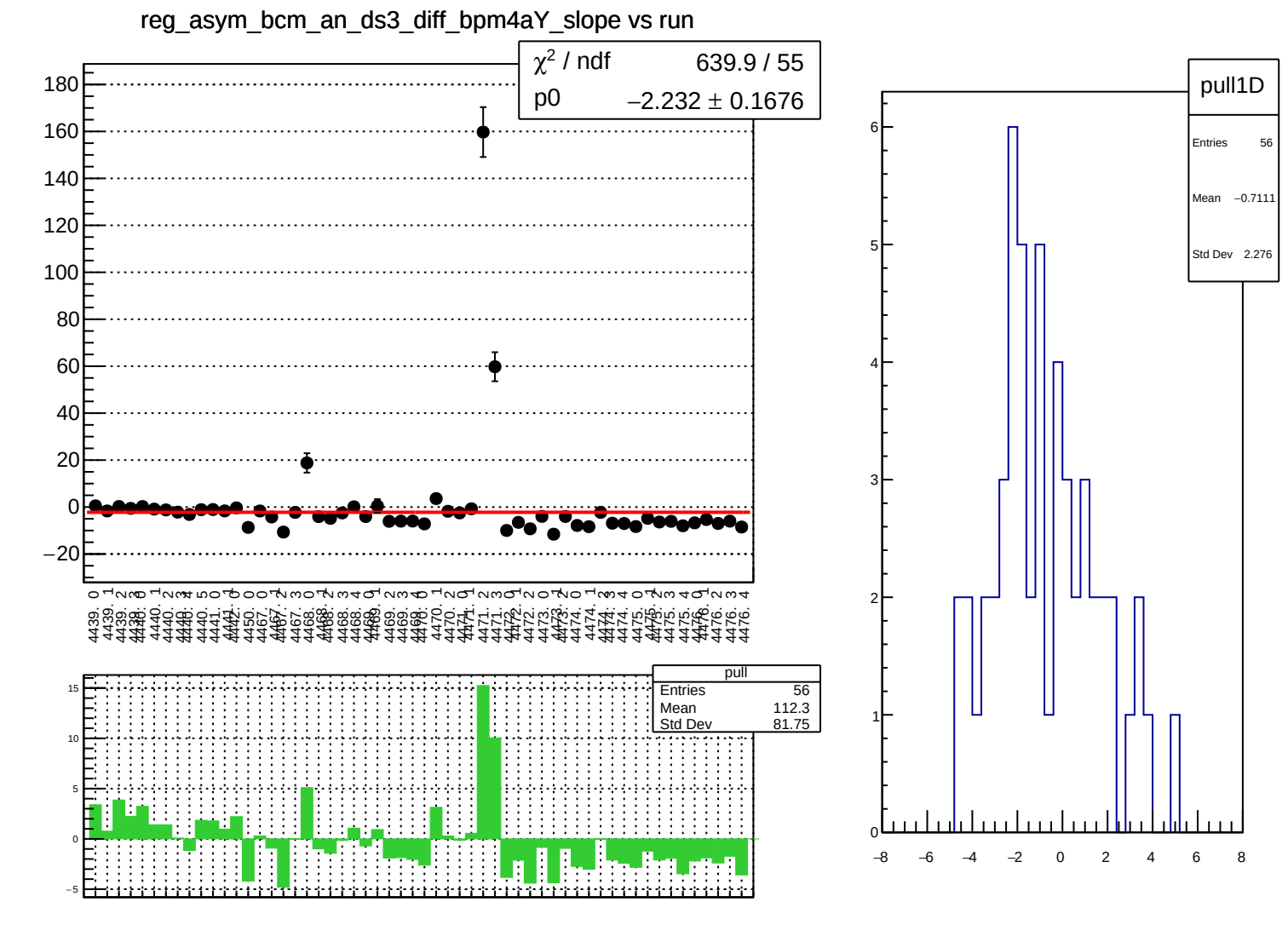

pull1D
Entries 56
Mean −0.1083
Std Dev 1.415
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

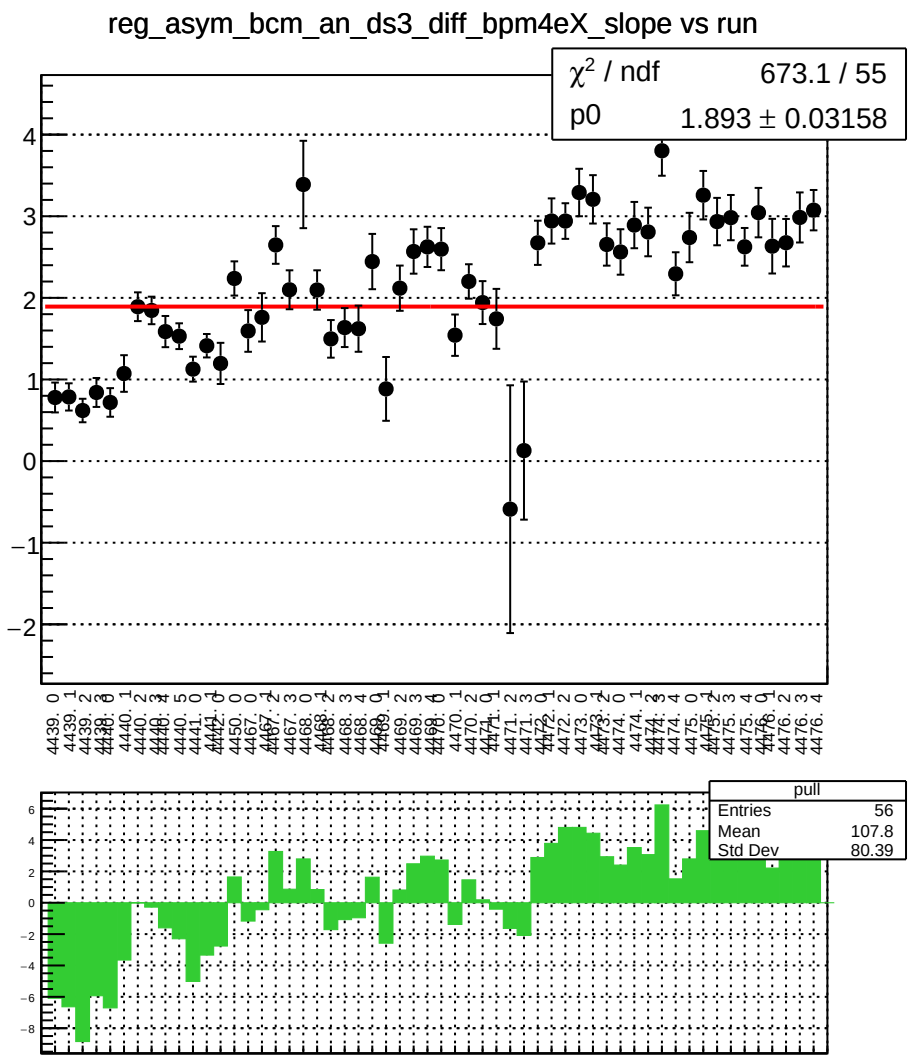

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 278.6 / 55
p0 216.8 ± 7.814
pull
Entries 56
Mean −323.2
Std Dev 334.8
pull1D
Entries 56
Mean 0.2069
Std Dev 1.456

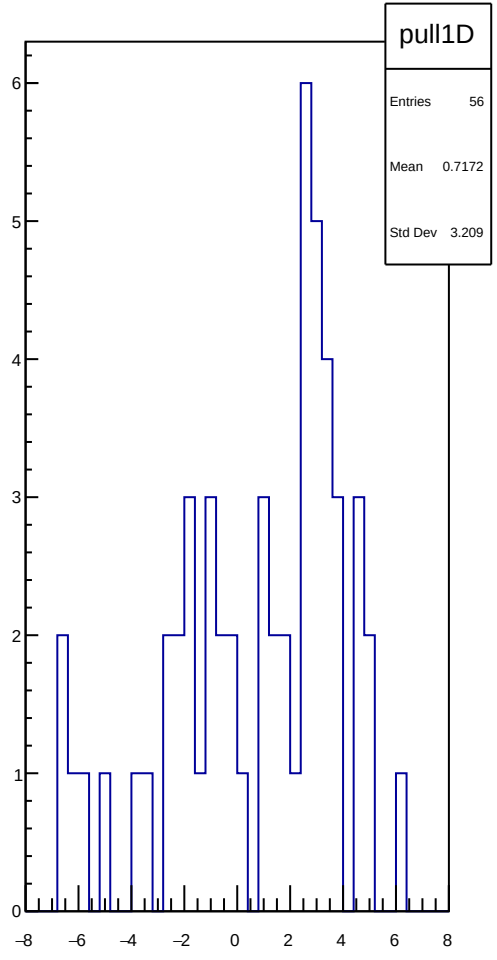

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 14.75 / 55
p0 9.619 ± 1.384
pull
Entries 56
Mean 109.9
Std Dev 29.34

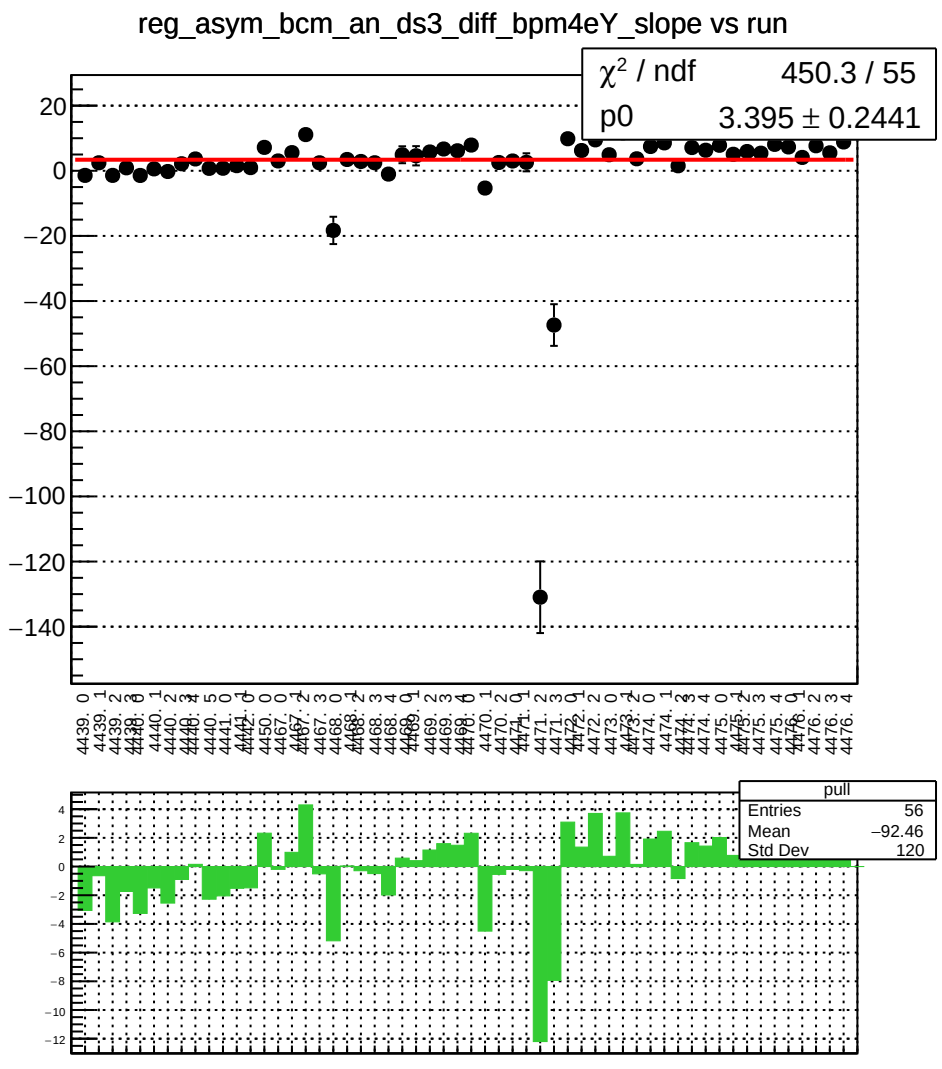

pull1D
Entries 56
Mean −0.01064
Std Dev 0.5131

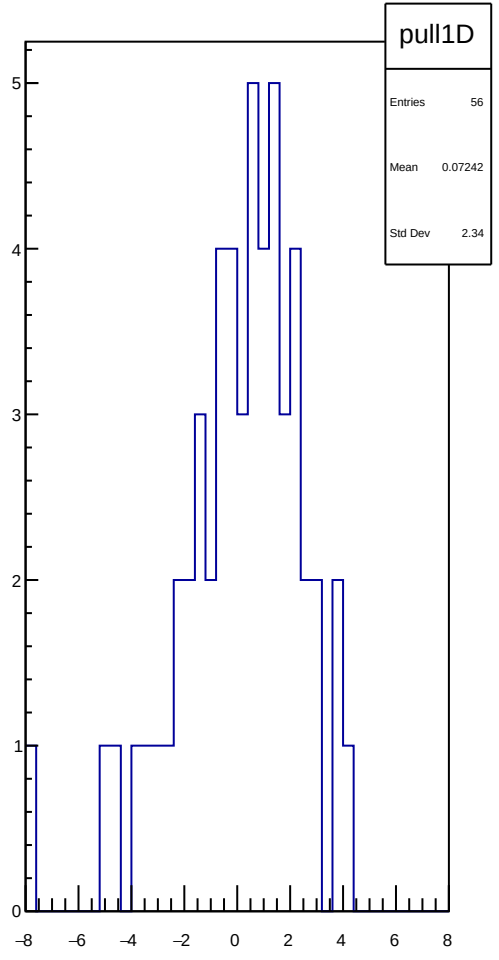

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 622.8 / 55
p0 −12.01 ± 0.1997
pull
Entries 56
Mean 1265
Std Dev 1239
pull1D
Entries 56
Mean −0.1895
Std Dev 3.163

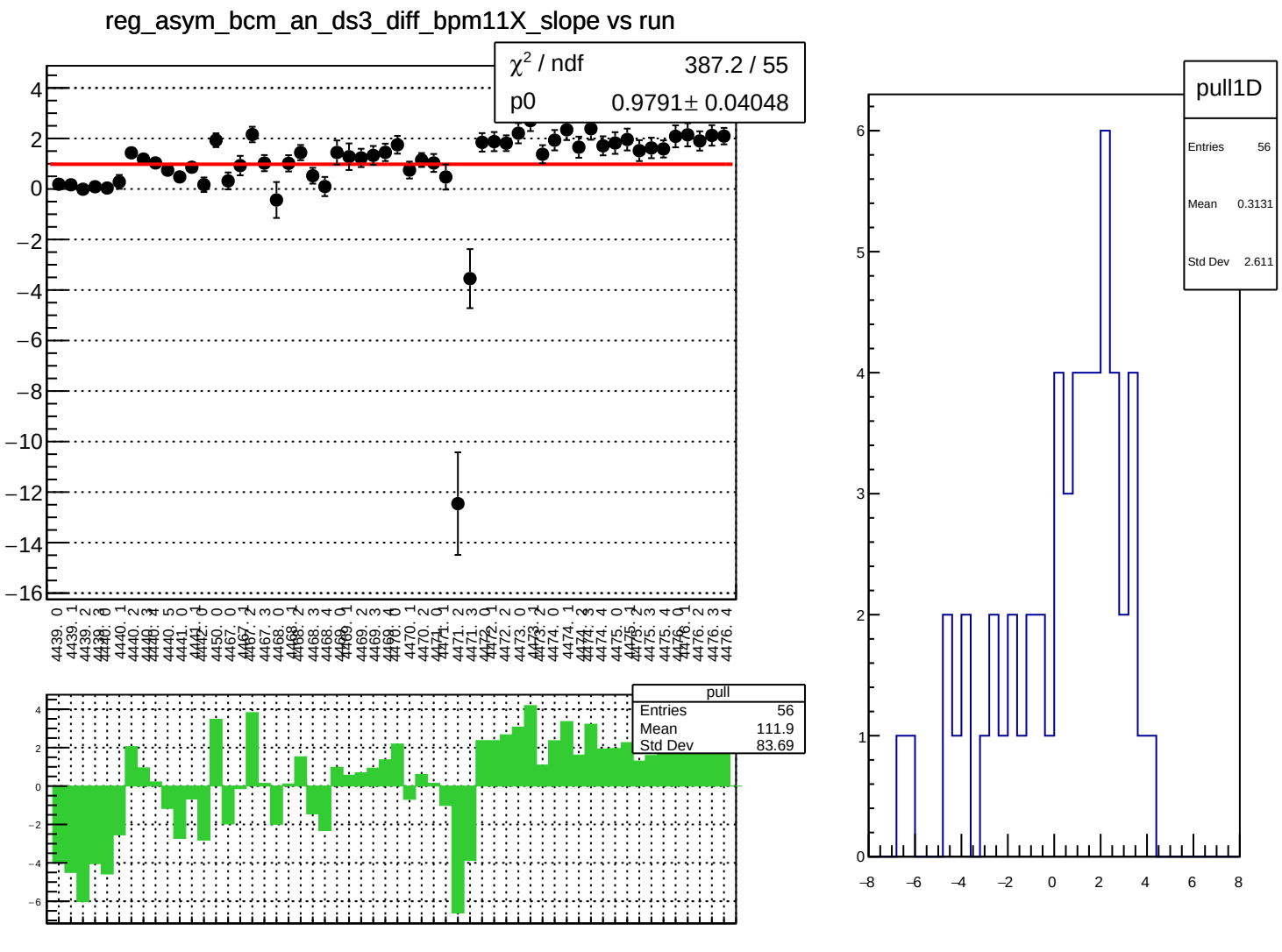

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 639.9 / 55
p0 −2.232 ± 0.1676
pull
Entries 56
Mean 112.3
Std Dev 81.75
pull1D
Entries 56
Mean −0.7111
Std Dev 2.276

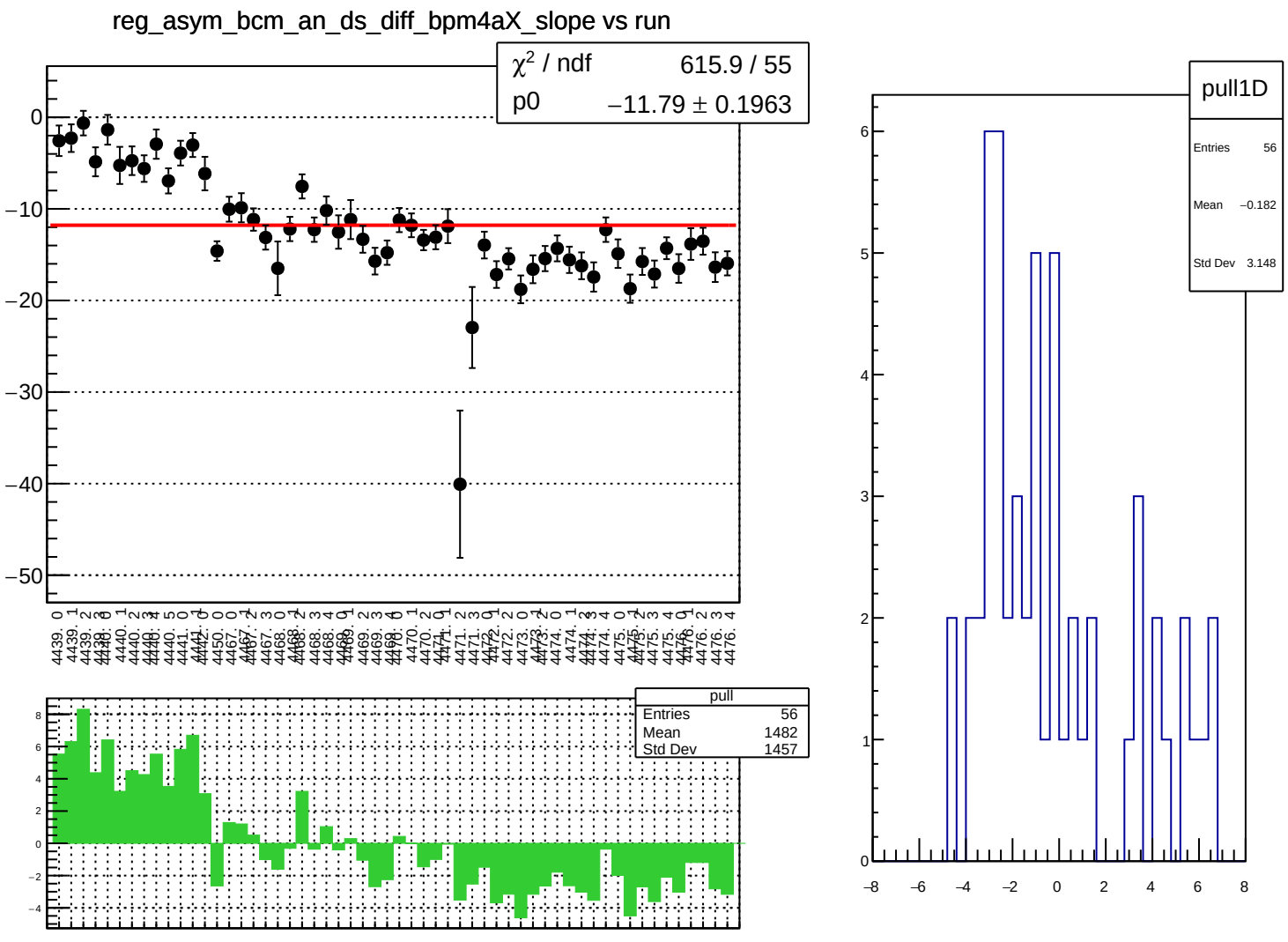

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 673.1 / 55
p0 1.893 ± 0.03158
pull
Entries 56
Mean 107.8
Std Dev 80.39

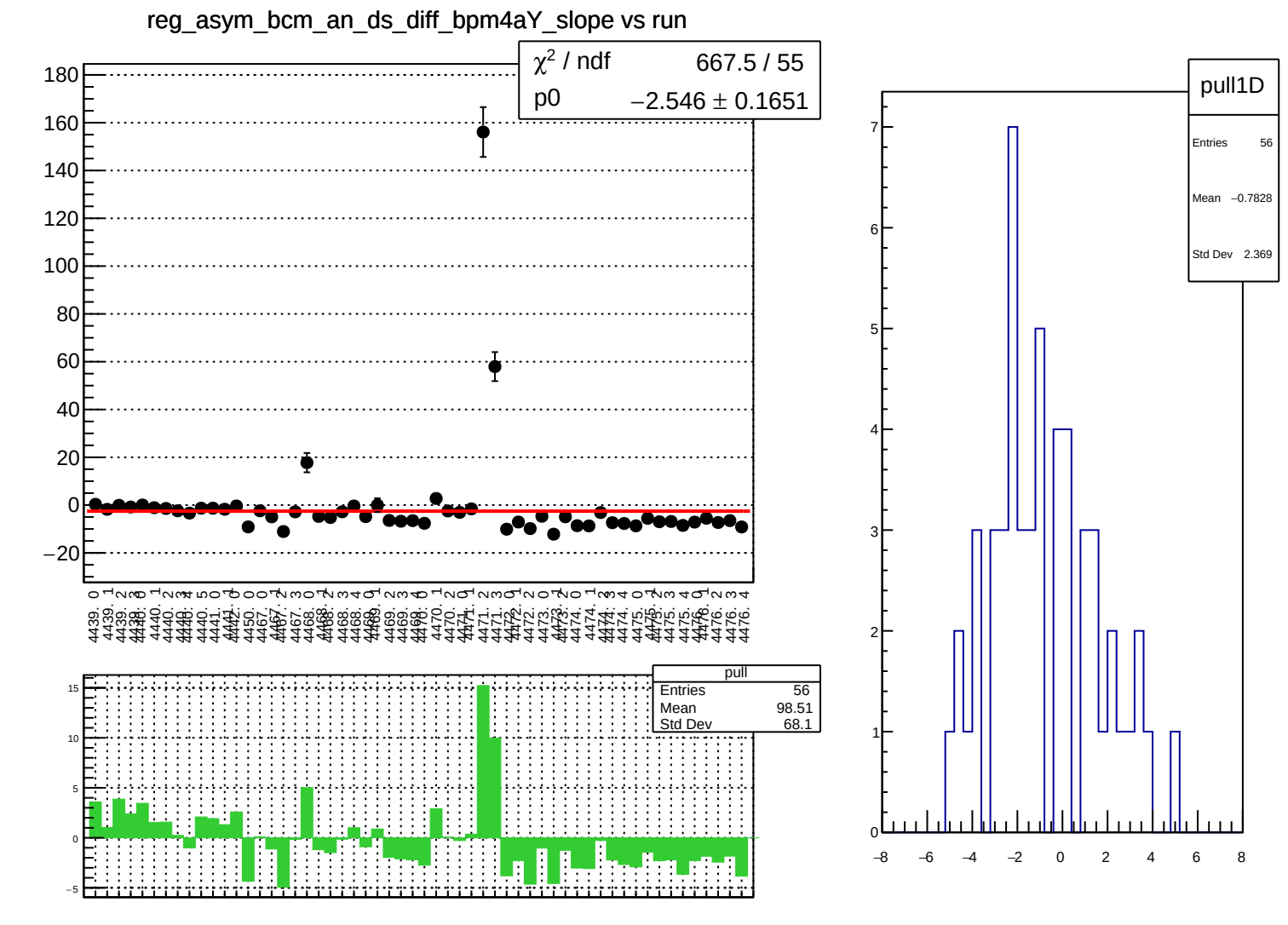

pull1D
Entries 56
Mean 0.7172
Std Dev 3.209

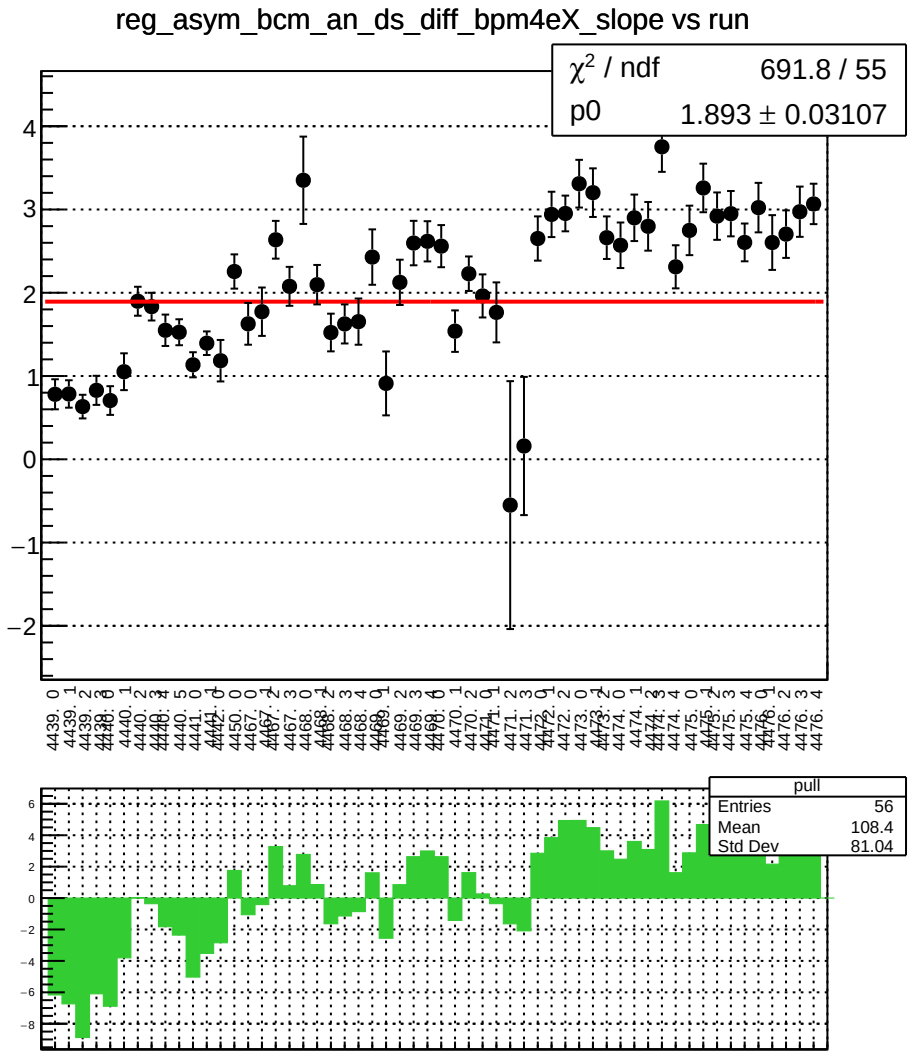

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 450.3 / 55
p0 3.395 ± 0.2441
pull
Entries 56
Mean −92.46
Std Dev 120

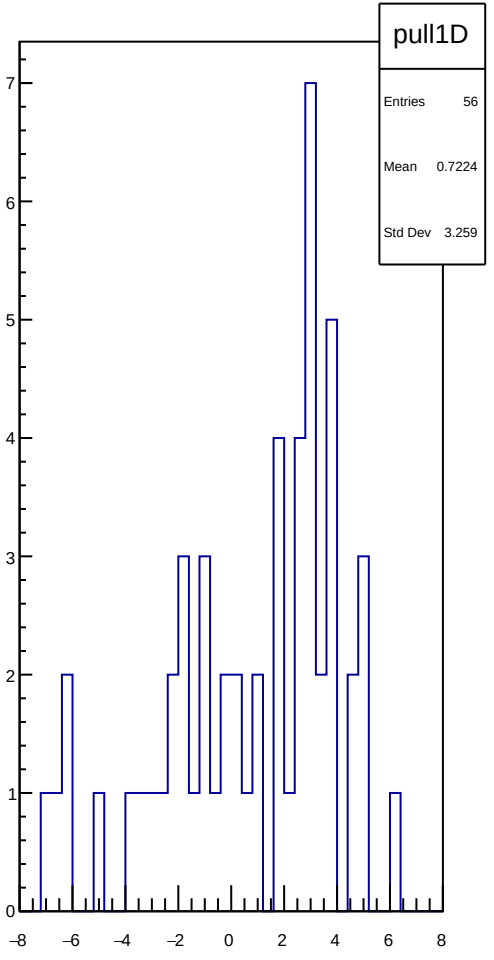

pull1D
Entries 56
Mean 0.07242
Std Dev 2.34

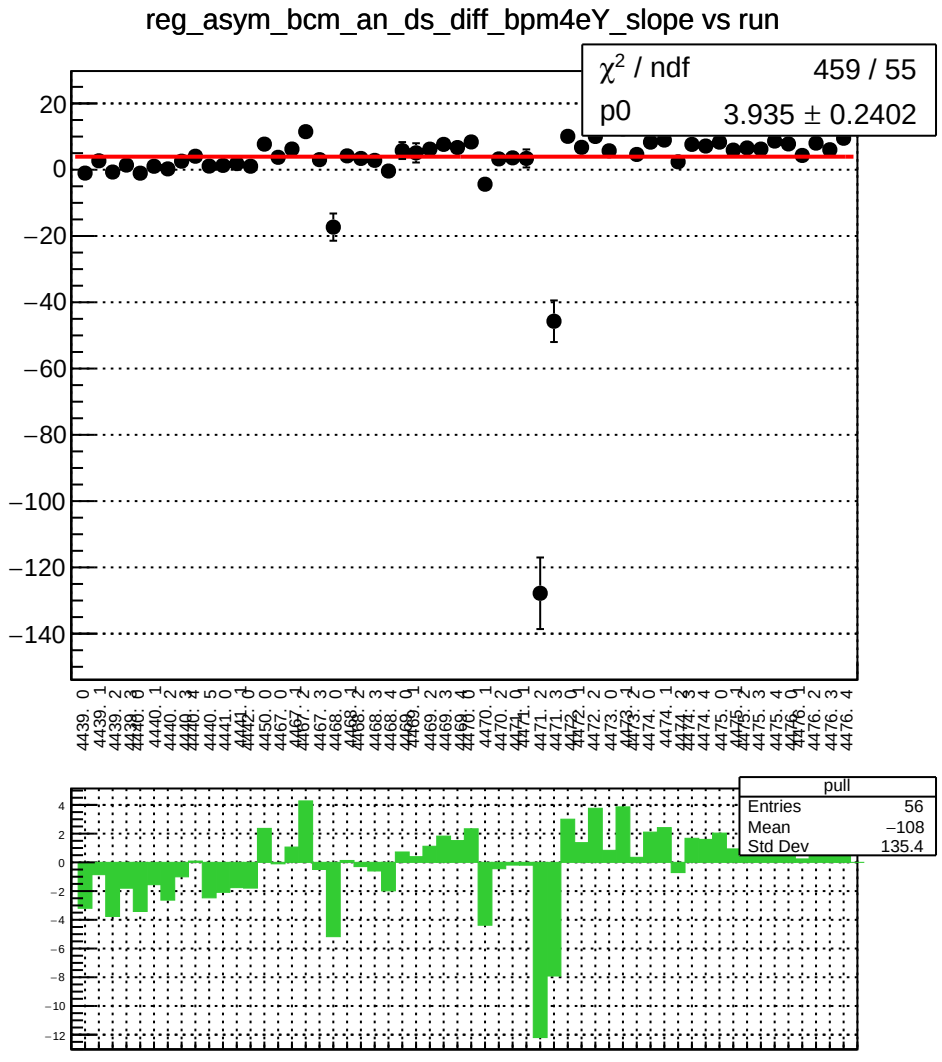

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 387.2 / 55
p0 0.9791± 0.04048
pull
Entries 56
Mean 111.9
Std Dev 83.69
pull1D
Entries 56
Mean 0.3131
Std Dev 2.611

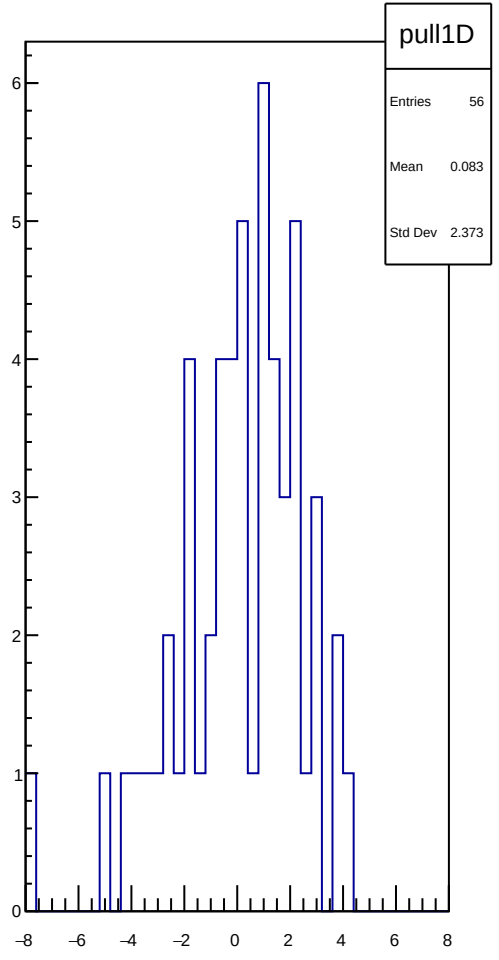

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 615.9 / 55
p0 −11.79 ± 0.1963
pull
Entries 56
Mean 1482
Std Dev 1457
pull1D
Entries 56
Mean −0.182
Std Dev 3.148

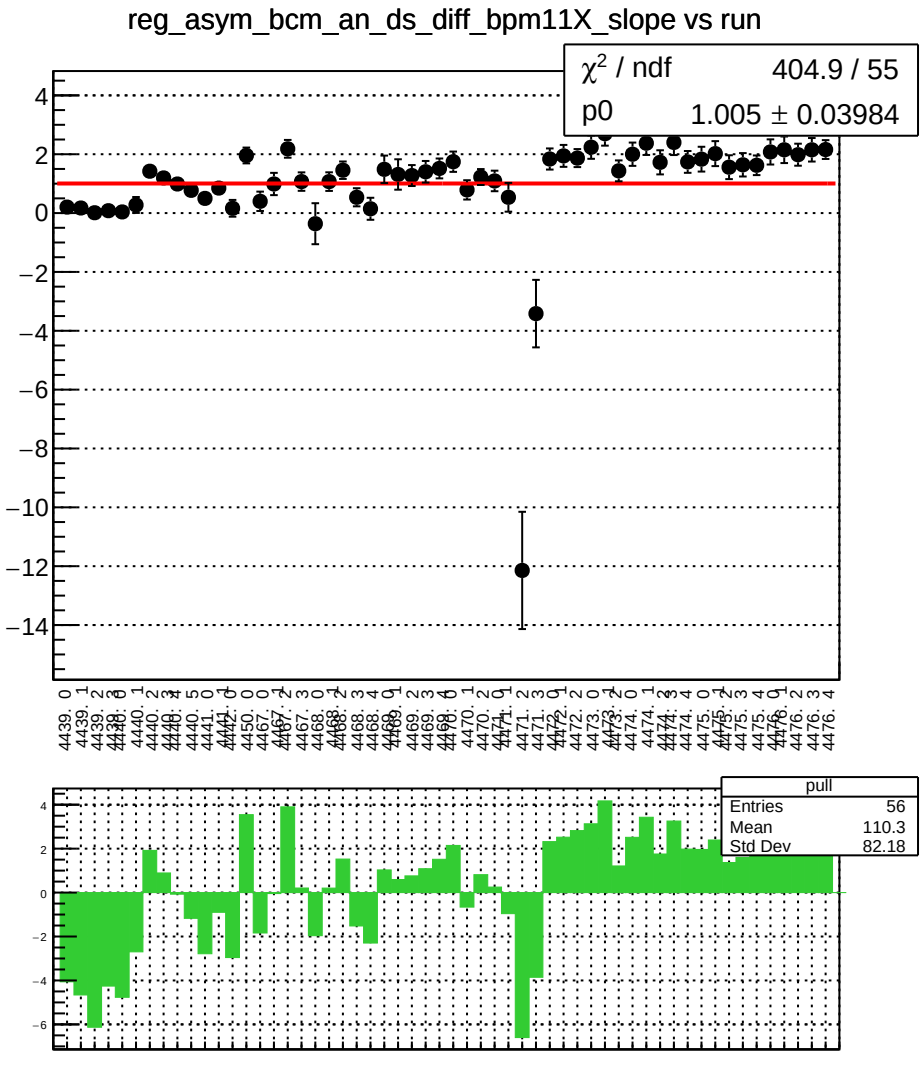

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 667.5 / 55
p0 −2.546 ± 0.1651
pull
Entries 56
Mean 98.51
Std Dev 68.1
pull1D
Entries 56
Mean −0.7828
Std Dev 2.369

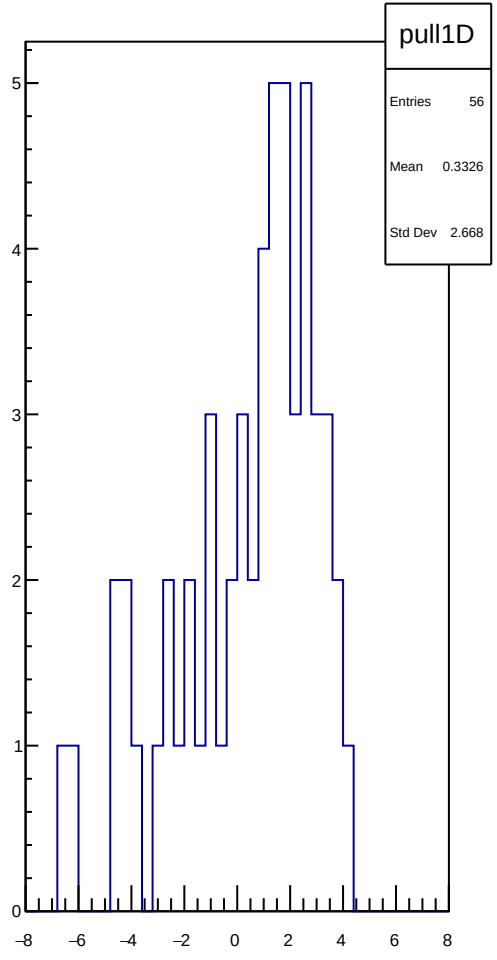

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 691.8 / 55
p0 1.893 ± 0.03107
pull
Entries 56
Mean 108.4
Std Dev 81.04

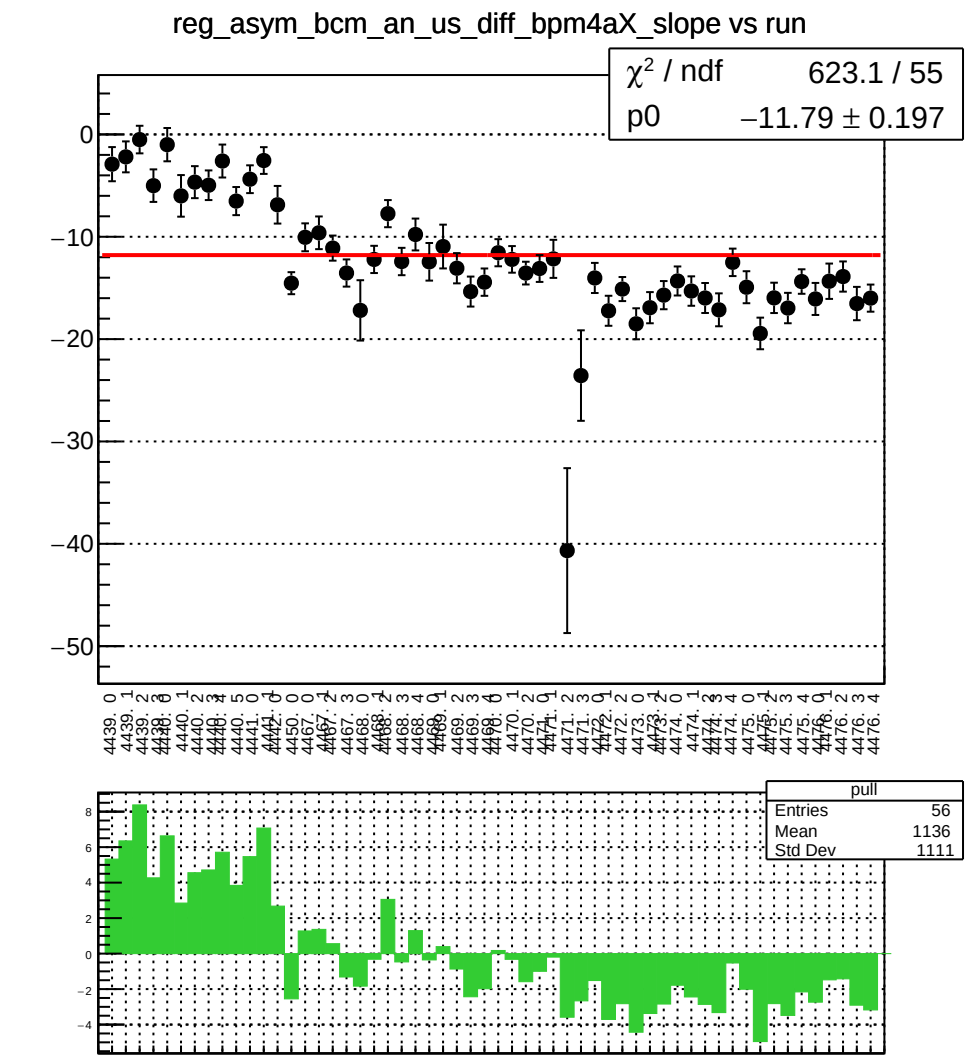

pull1D
Entries 56
Mean 0.7224
Std Dev 3.259

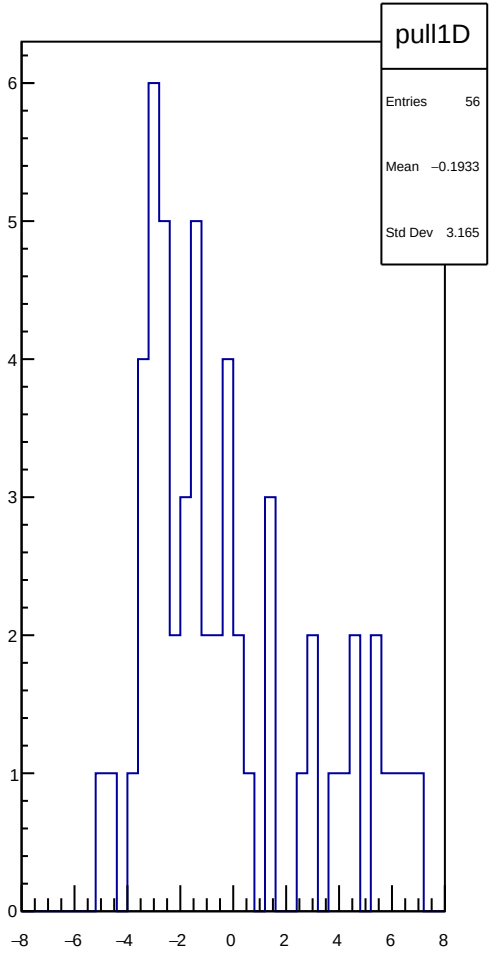

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 459 / 55
p0 3.935 ± 0.2402
pull
Entries 56
Mean −108
Std Dev 135.4

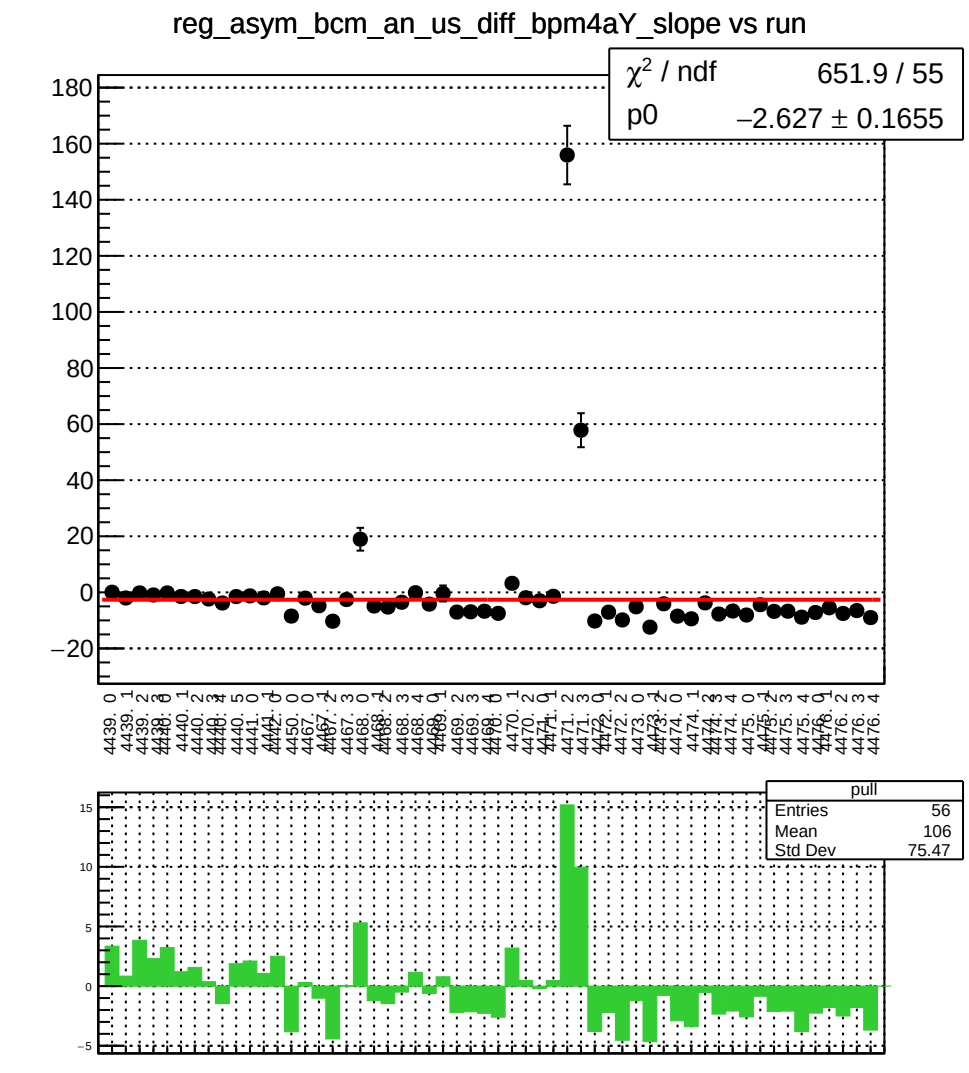

pull1D
Entries 56
Mean 0.083
Std Dev 2.373

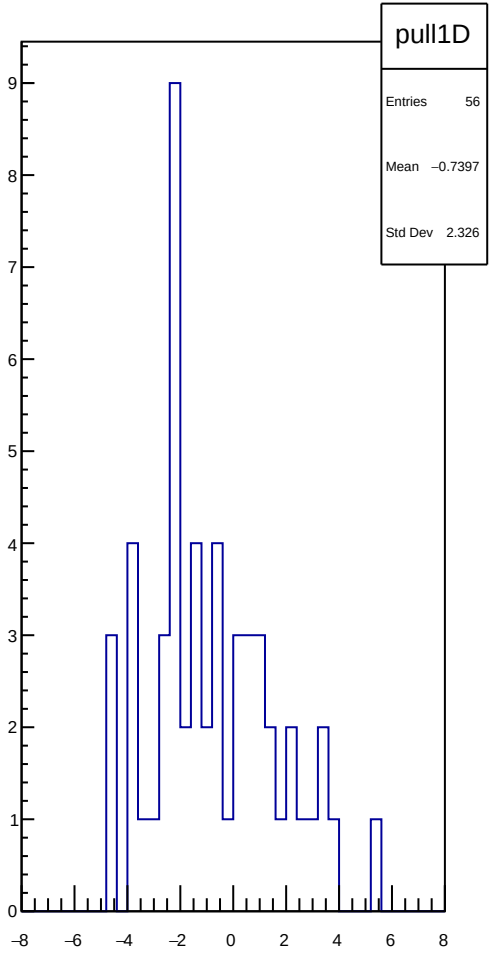

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 404.9 / 55
p0 1.005 ± 0.03984
pull
Entries 56
Mean 110.3
Std Dev 82.18

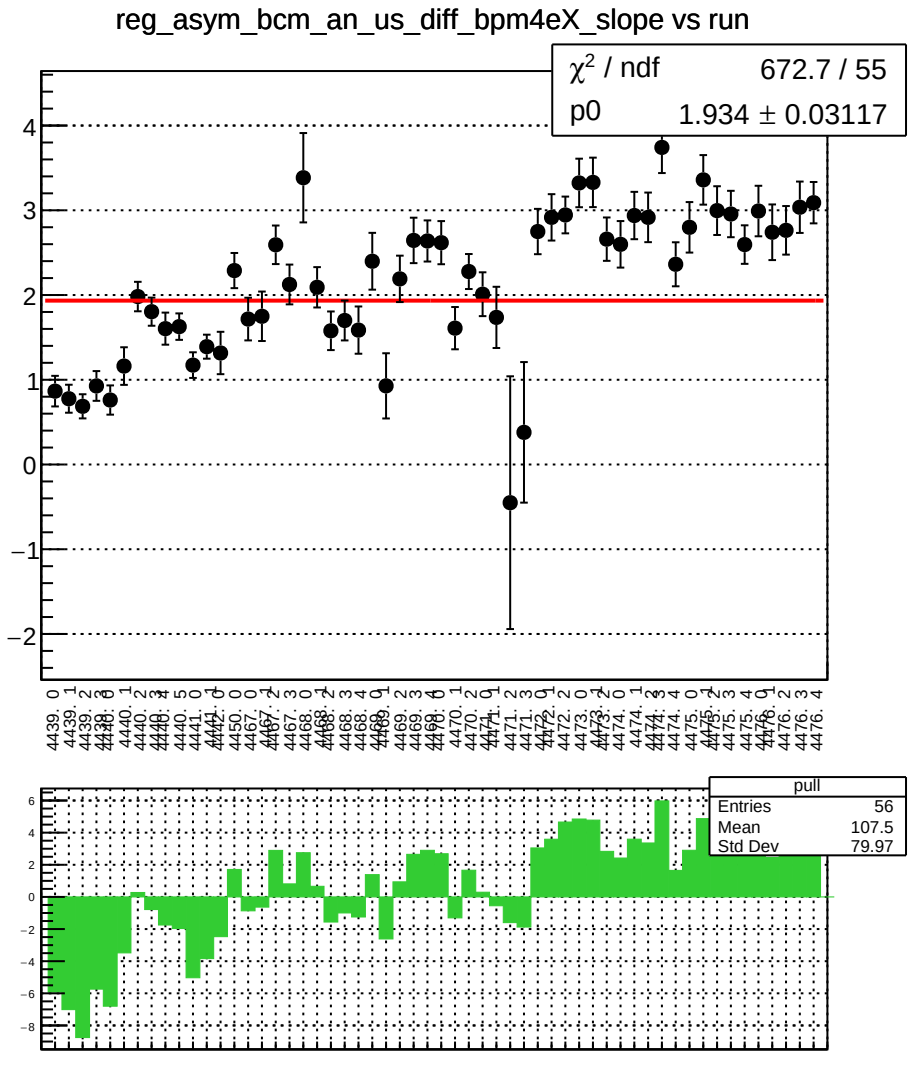

pull1D
Entries 56
Mean 0.3326
Std Dev 2.668

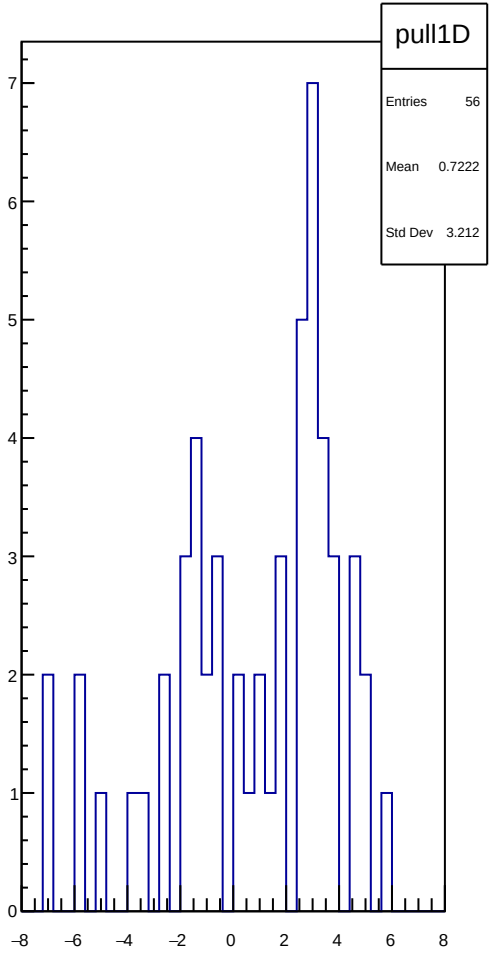

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 623.1 / 55
p0 −11.79 ± 0.197
pull
Entries 56
Mean 1136
Std Dev 1111

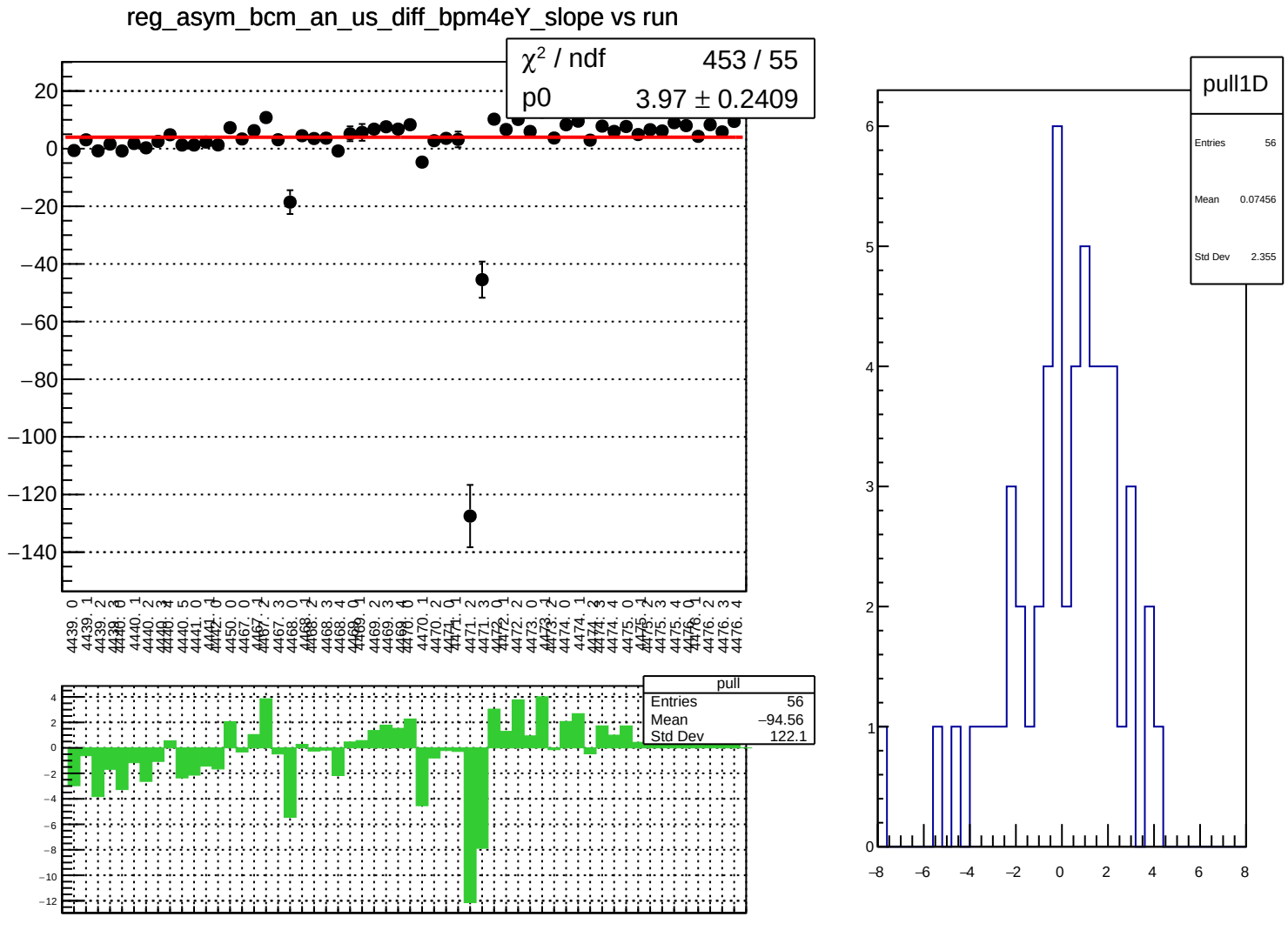

pull1D
Entries 56
Mean −0.1933
Std Dev 3.165

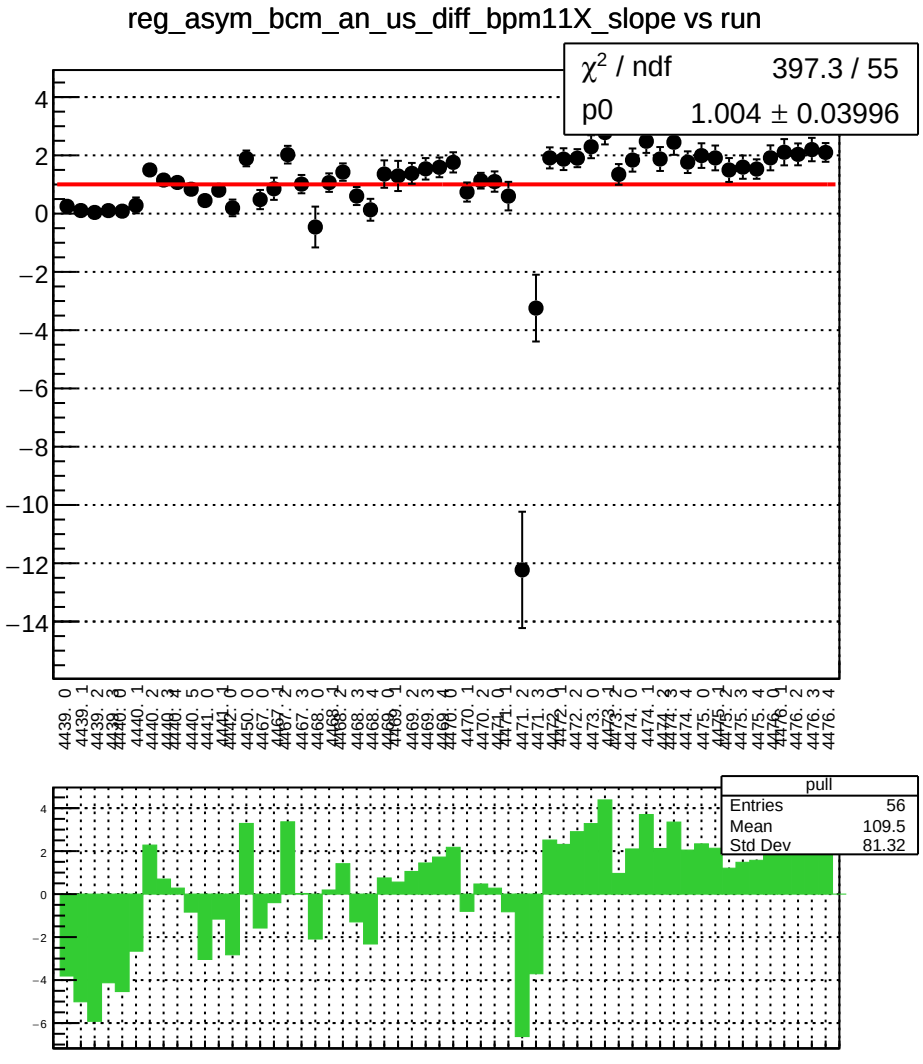

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 651.9 / 55
p0 −2.627 ± 0.1655
pull
Entries 56
Mean 106
Std Dev 75.47

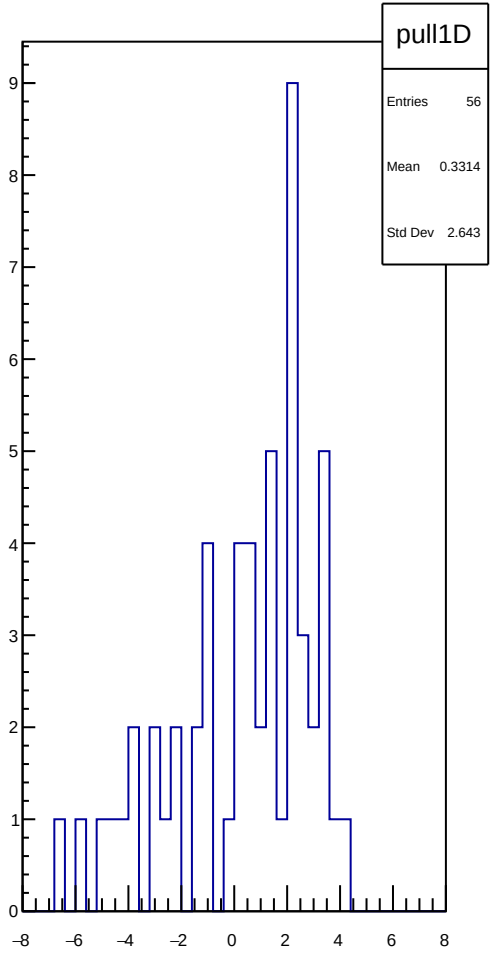

pull1D
Entries 56
Mean −0.7397
Std Dev 2.326

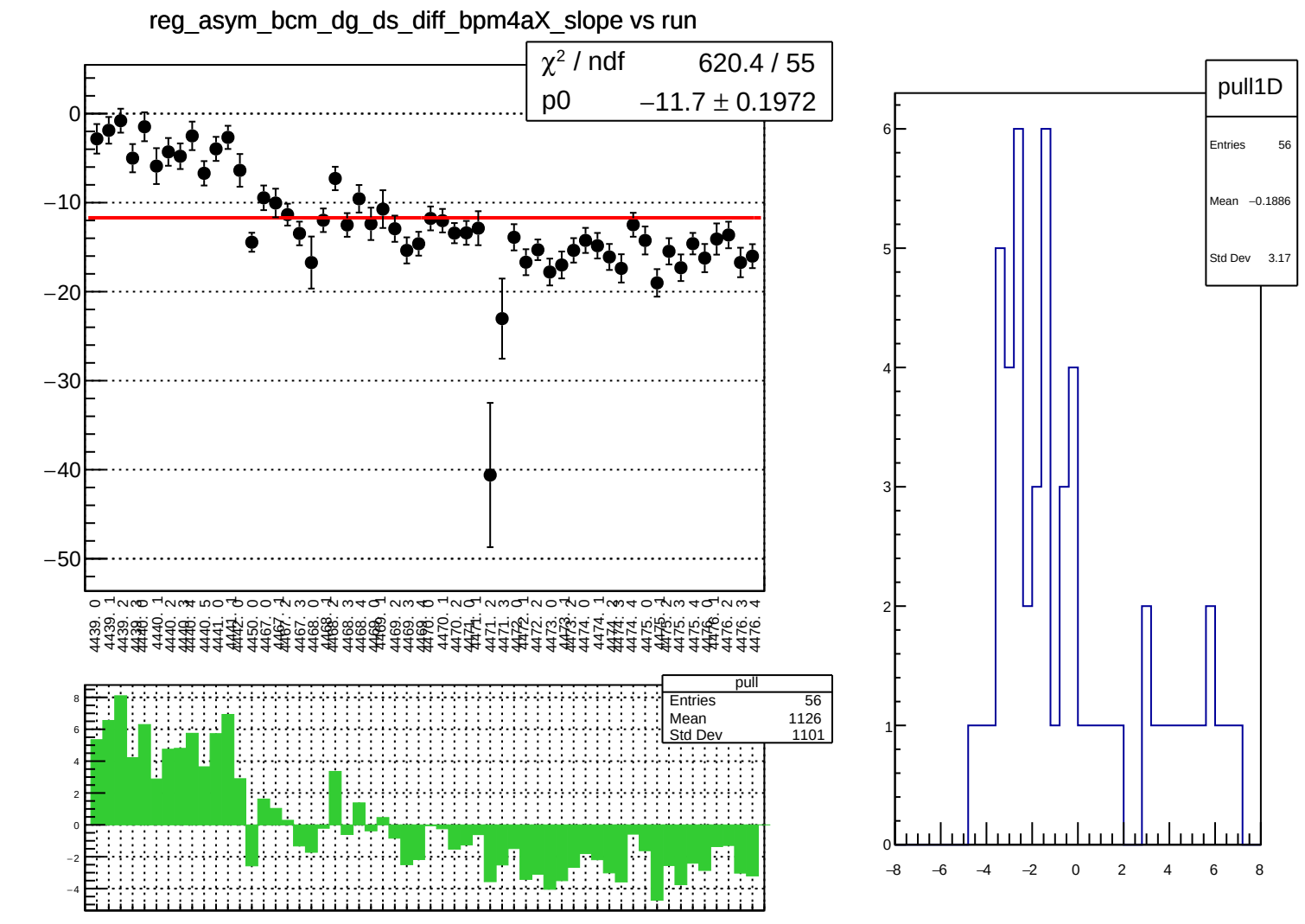

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 672.7 / 55
p0 1.934 ± 0.03117
pull
Entries 56
Mean 107.5
Std Dev 79.97

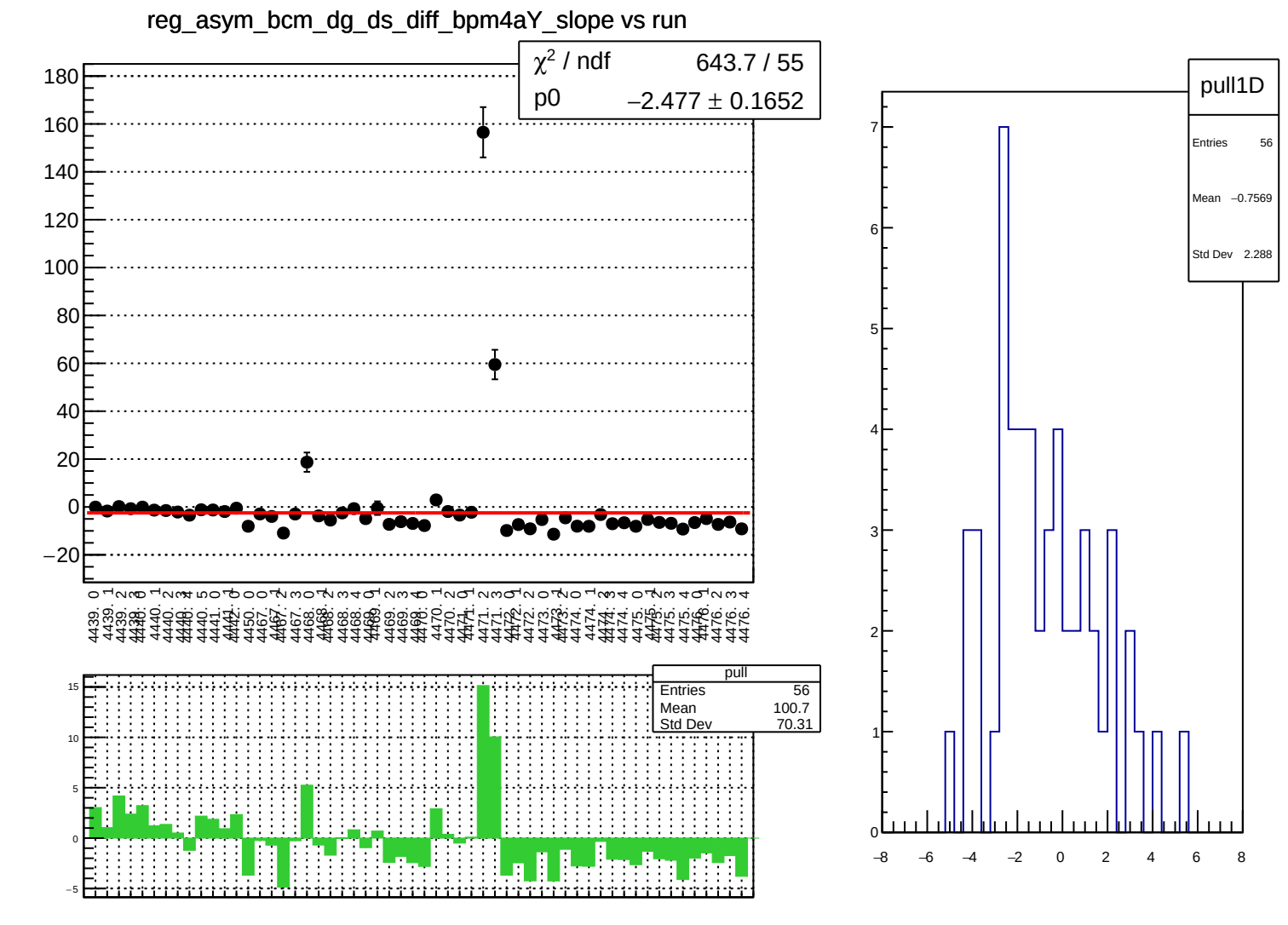

pull1D
Entries 56
Mean 0.7222
Std Dev 3.212

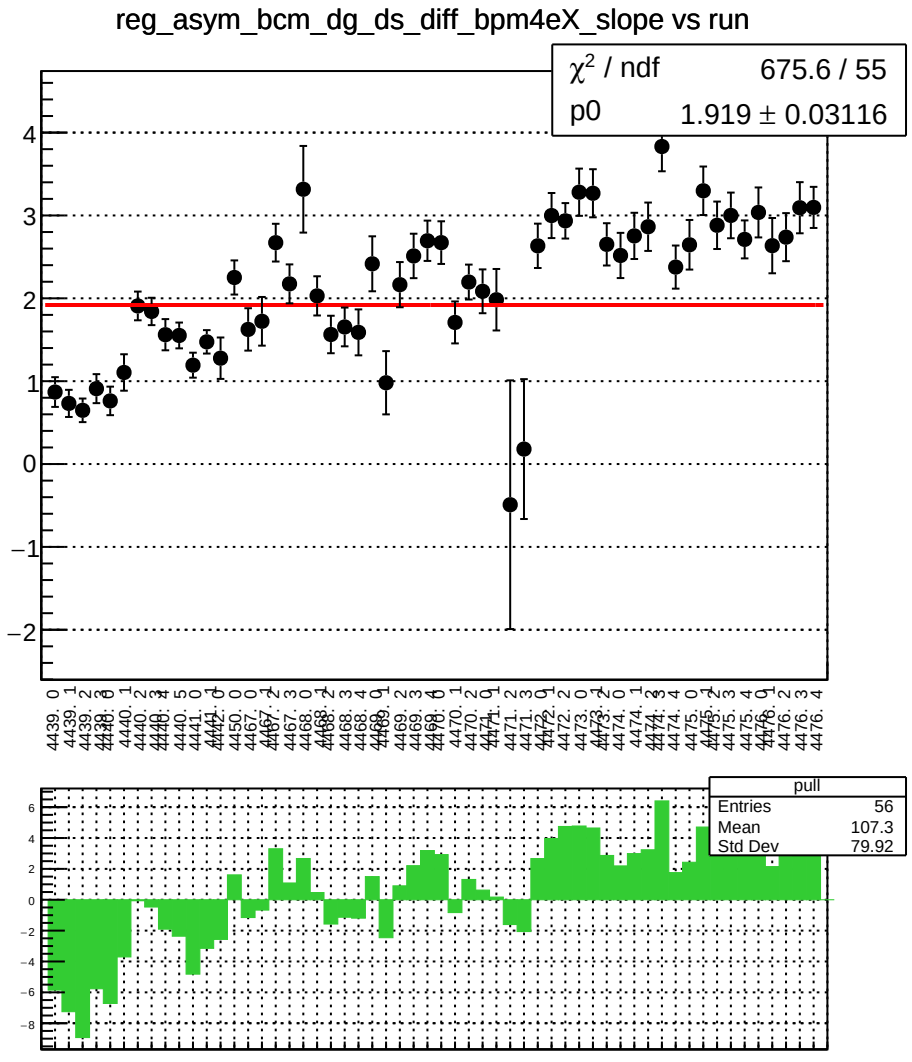

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 453 / 55
p0 3.97 ± 0.2409
pull
Entries 56
Mean −94.56
Std Dev 122.1
pull1D
Entries 56
Mean 0.07456
Std Dev 2.355

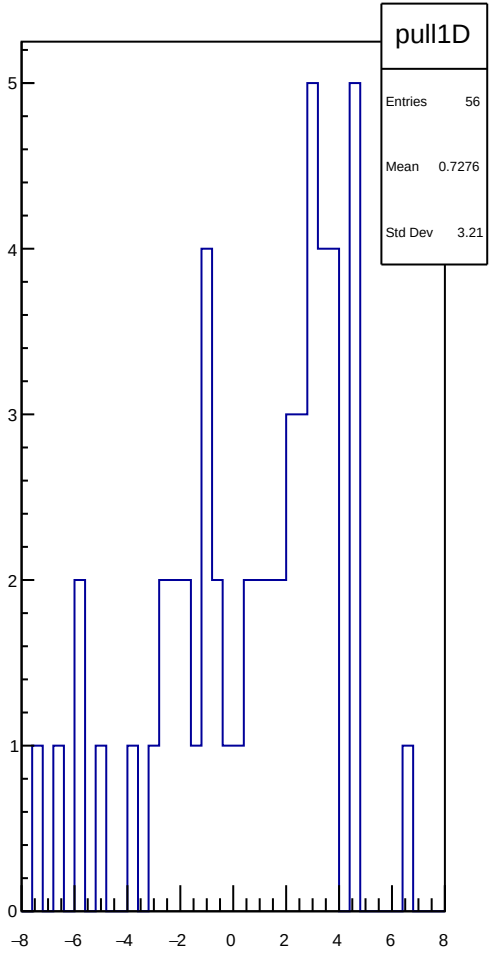

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 397.3 / 55
p0 1.004 ± 0.03996
pull
Entries 56
Mean 109.5
Std Dev 81.32

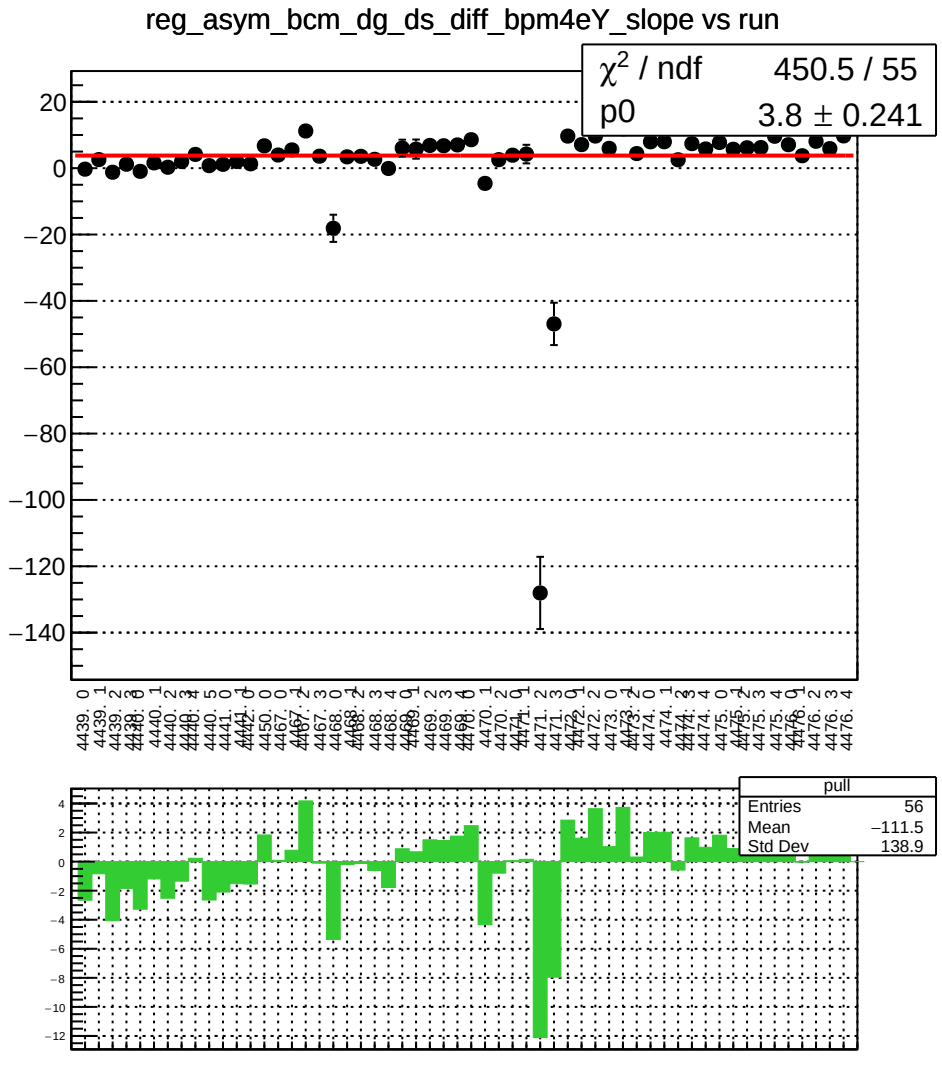

pull1D
Entries 56
Mean 0.3314
Std Dev 2.643

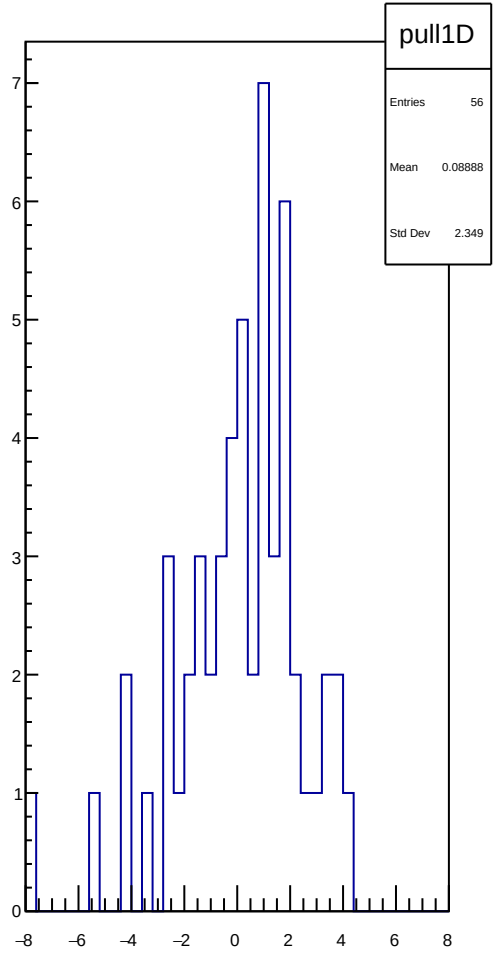

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 620.4 / 55
p0 −11.7 ± 0.1972
pull
Entries 56
Mean 1126
Std Dev 1101
pull1D
Entries 56
Mean −0.1886
Std Dev 3.17

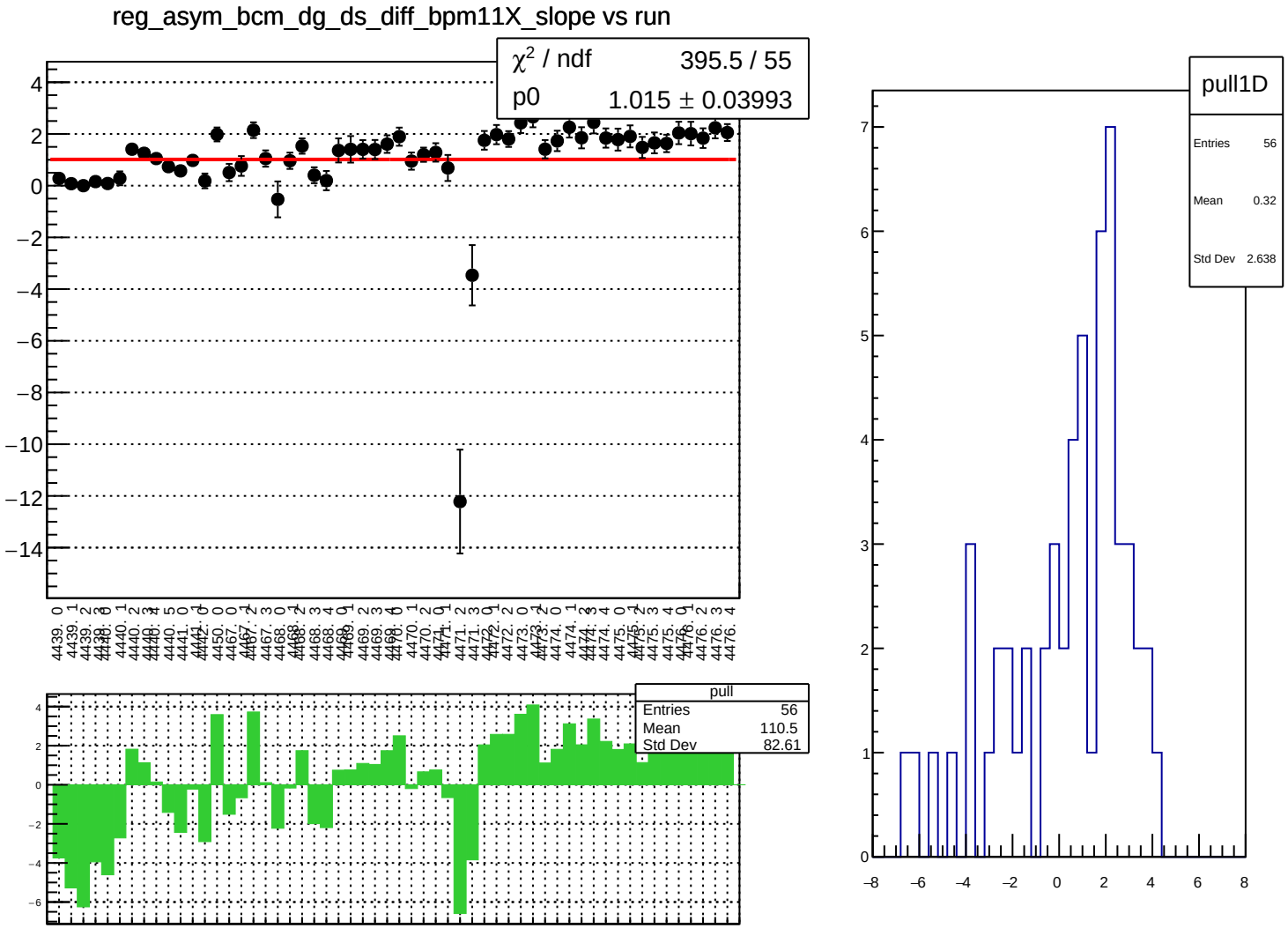

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 643.7 / 55
p0 −2.477 ± 0.1652
pull
Entries 56
Mean 100.7
Std Dev 70.31
pull1D
Entries 56
Mean −0.7569
Std Dev 2.288

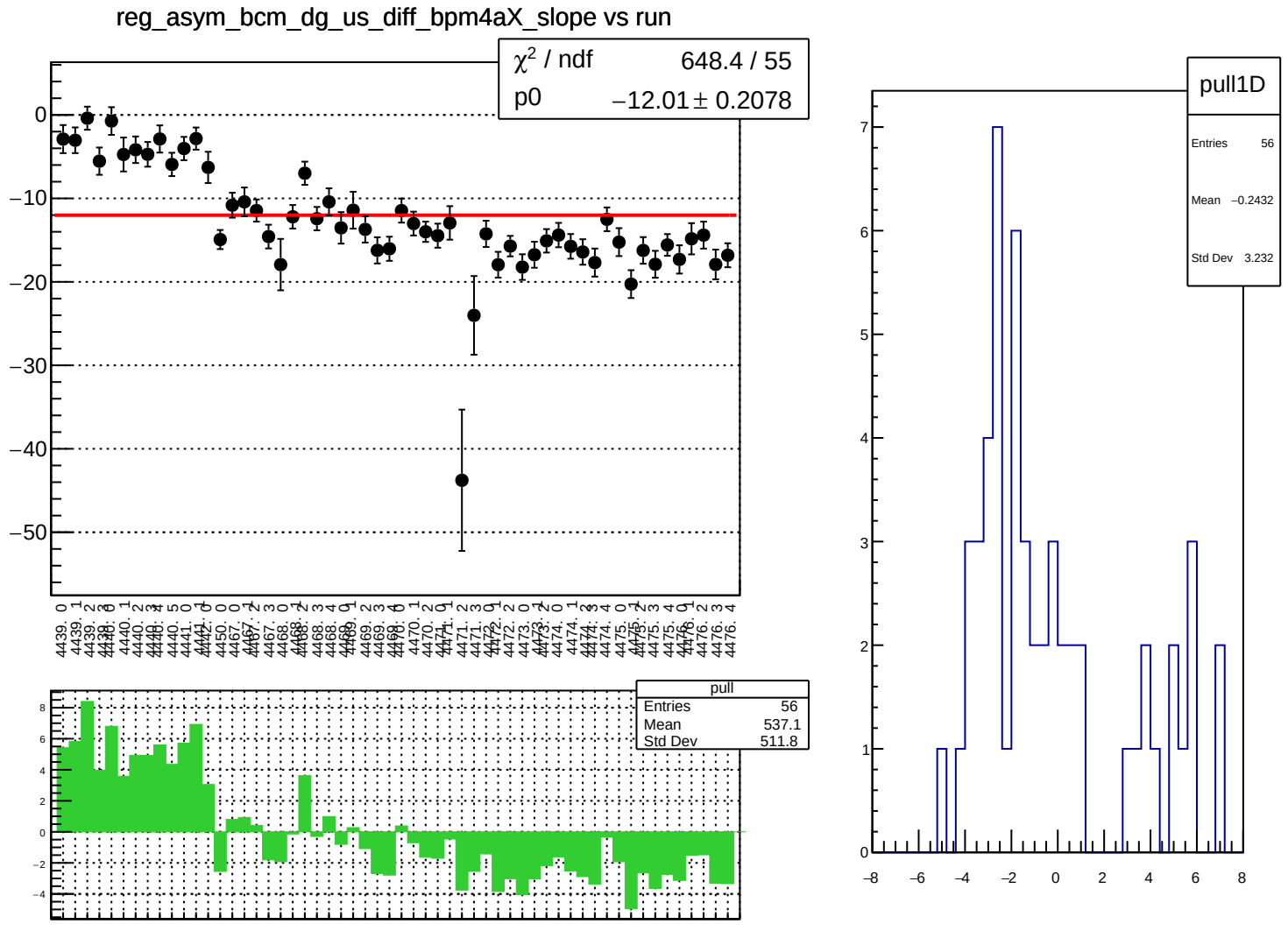

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 675.6 / 55
p0 1.919 ± 0.03116
pull
Entries 56
Mean 107.3
Std Dev 79.92

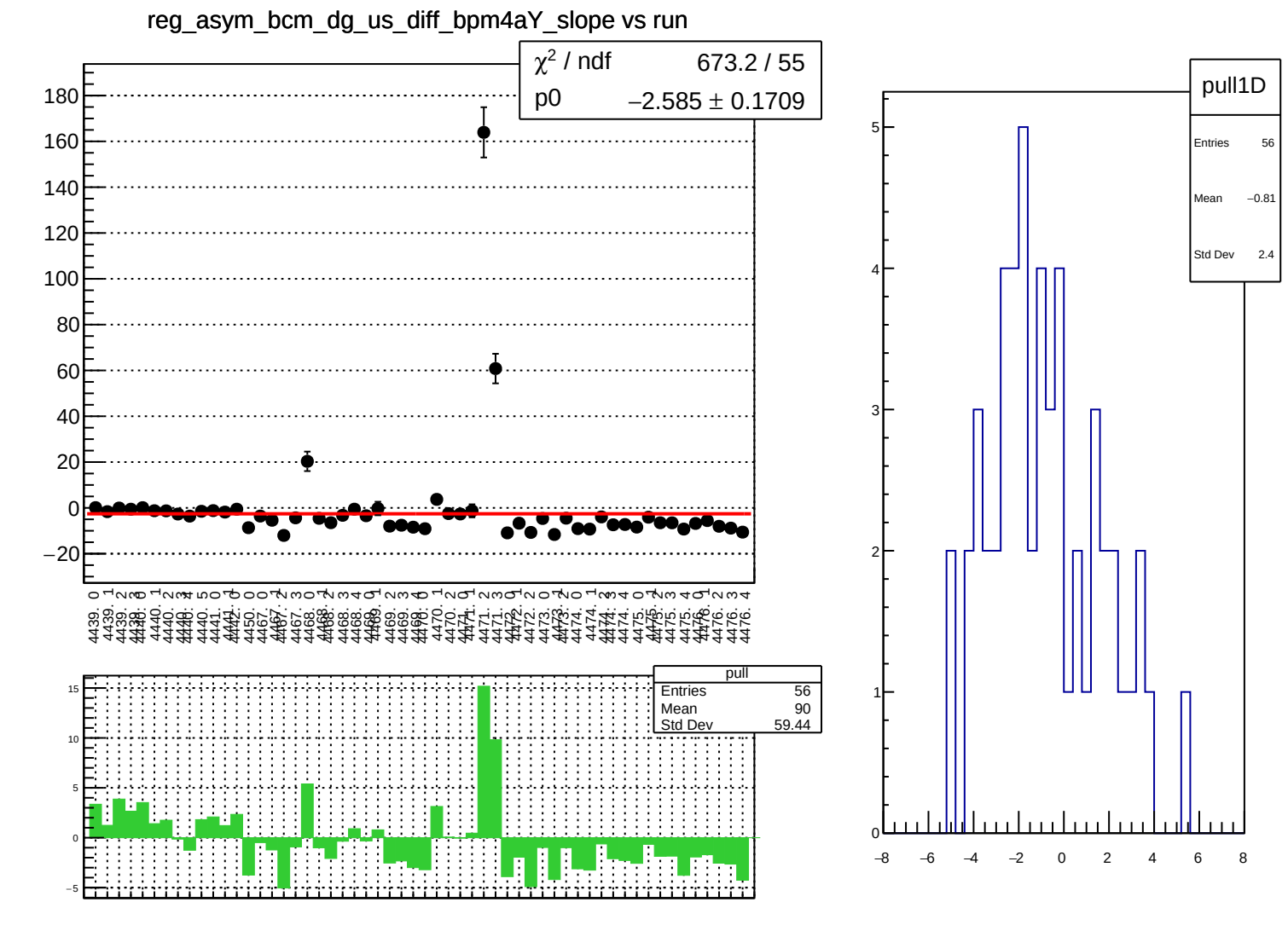

pull1D
Entries 56
Mean 0.7276
Std Dev 3.21

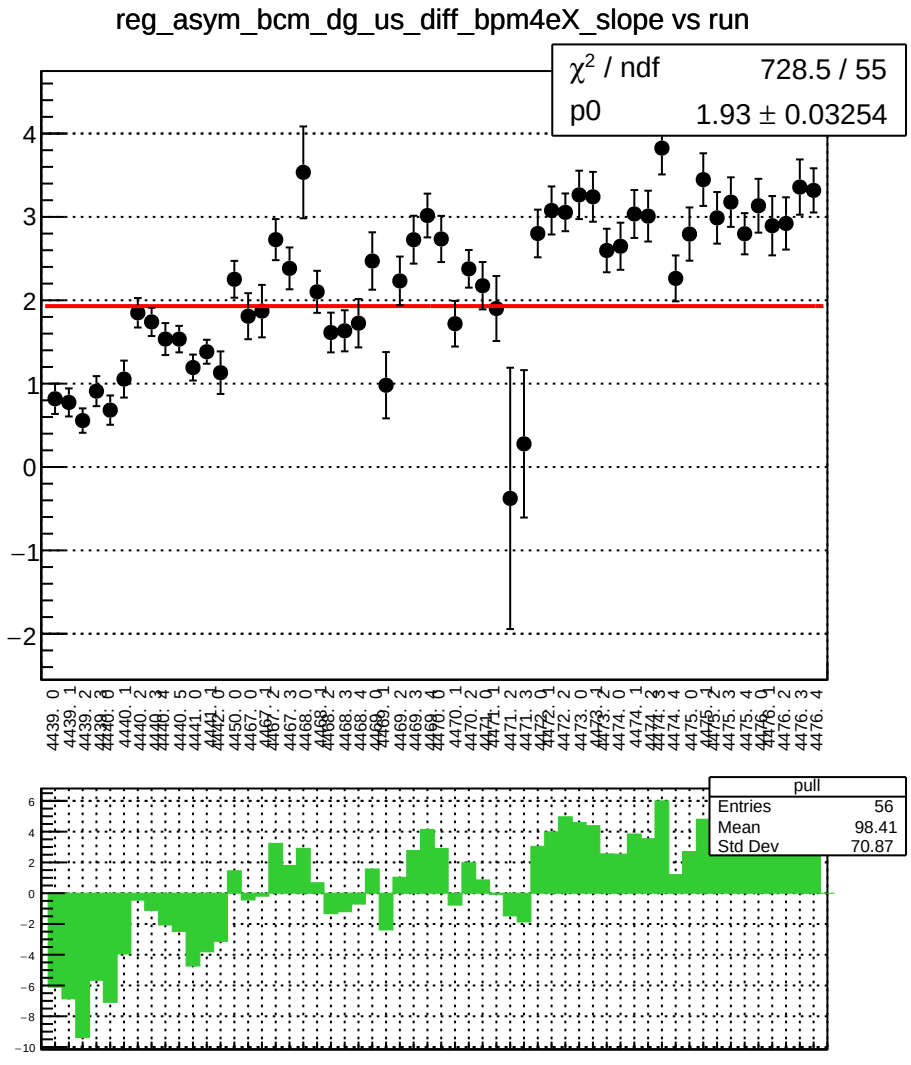

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 450.5 / 55
p0 3.8 ± 0.241
pull
Entries 56
Mean −111.5
Std Dev 138.9

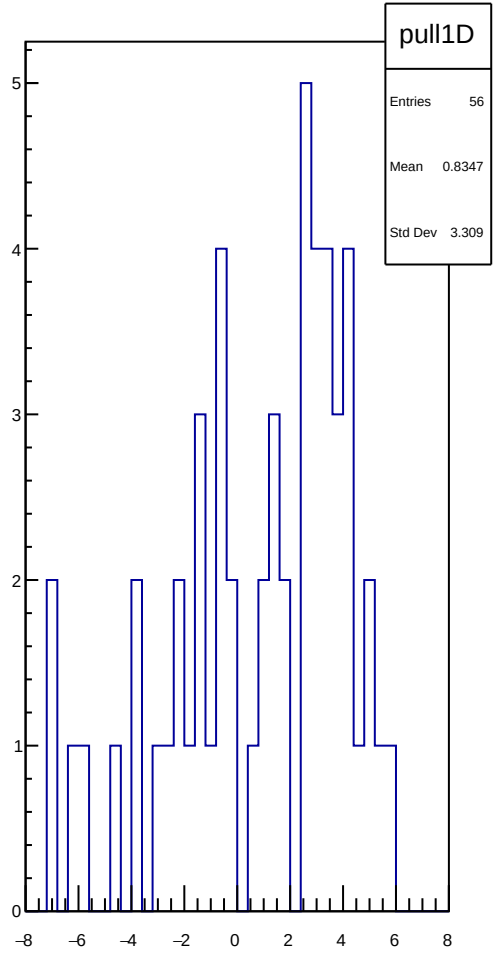

pull1D
Entries 56
Mean 0.08888
Std Dev 2.349

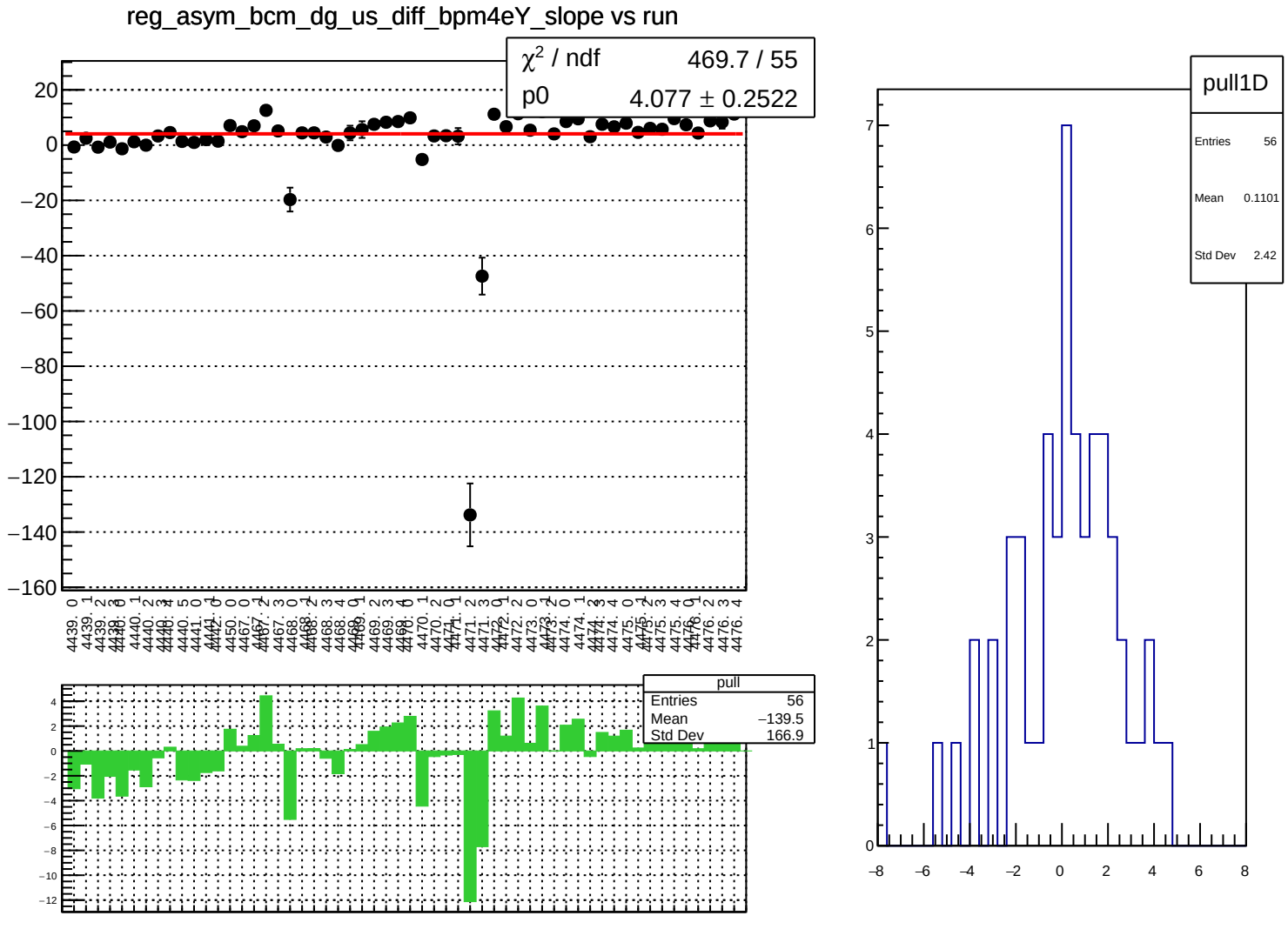

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 395.5 / 55
p0 1.015 ± 0.03993
pull
Entries 56
Mean 110.5
Std Dev 82.61
pull1D
Entries 56
Mean 0.32
Std Dev 2.638

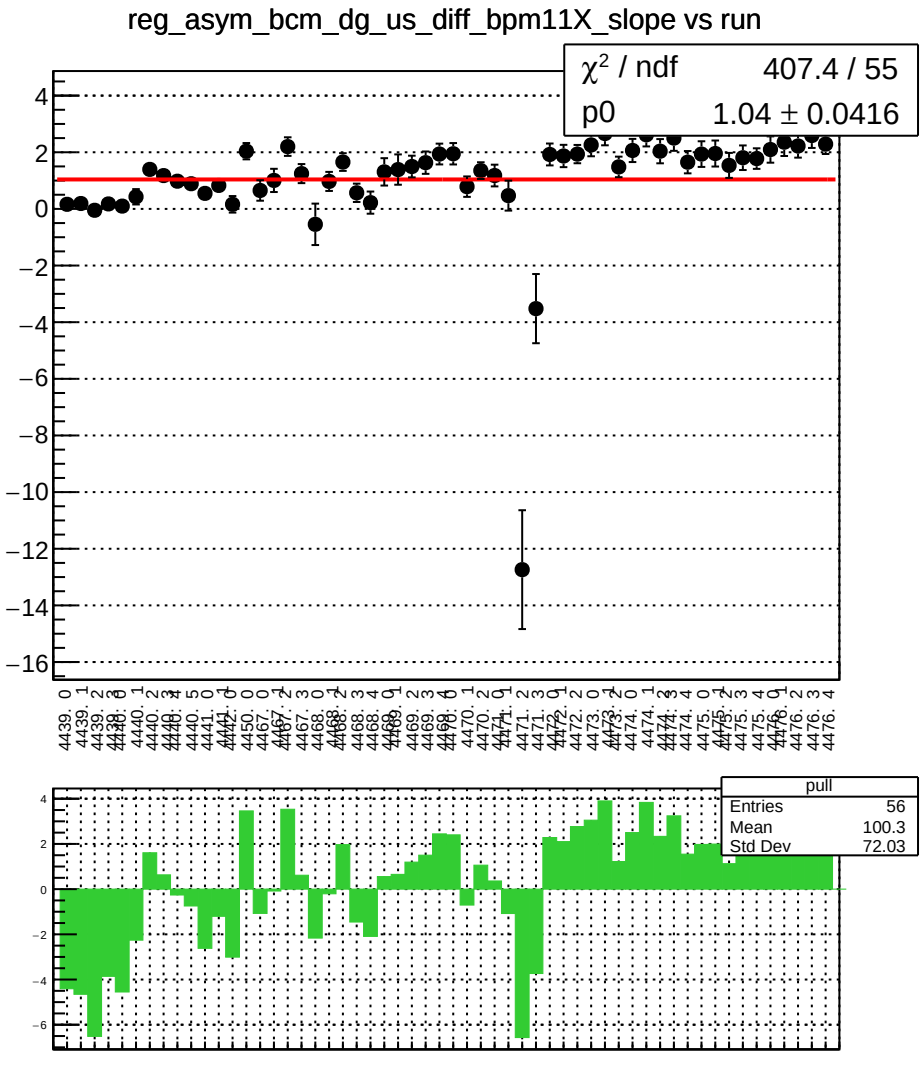

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 648.4 / 55
p0 −12.01 ± 0.2078
pull
Entries 56
Mean 537.1
Std Dev 511.8
pull1D
Entries 56
Mean −0.2432
Std Dev 3.232

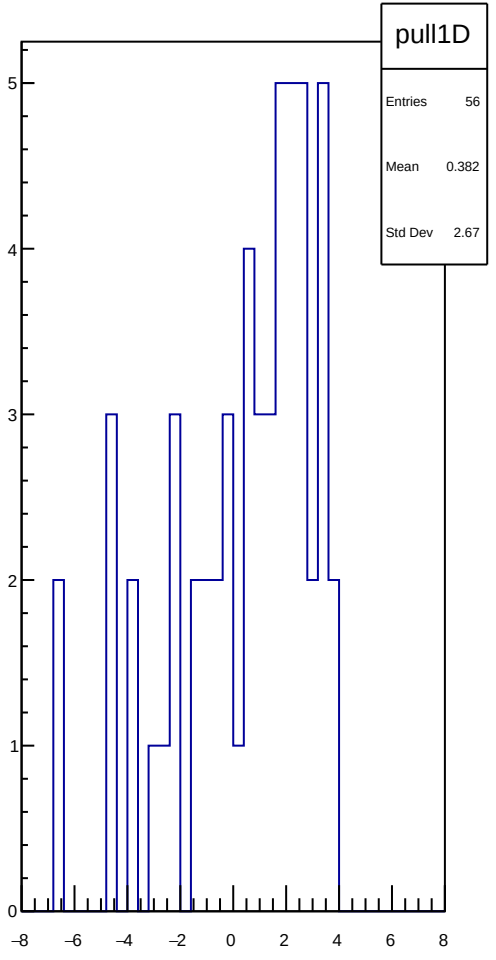

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 673.2 / 55
p0 −2.585 ± 0.1709
pull
Entries 56
Mean 90
Std Dev 59.44
pull1D
Entries 56
Mean −0.81
Std Dev 2.4

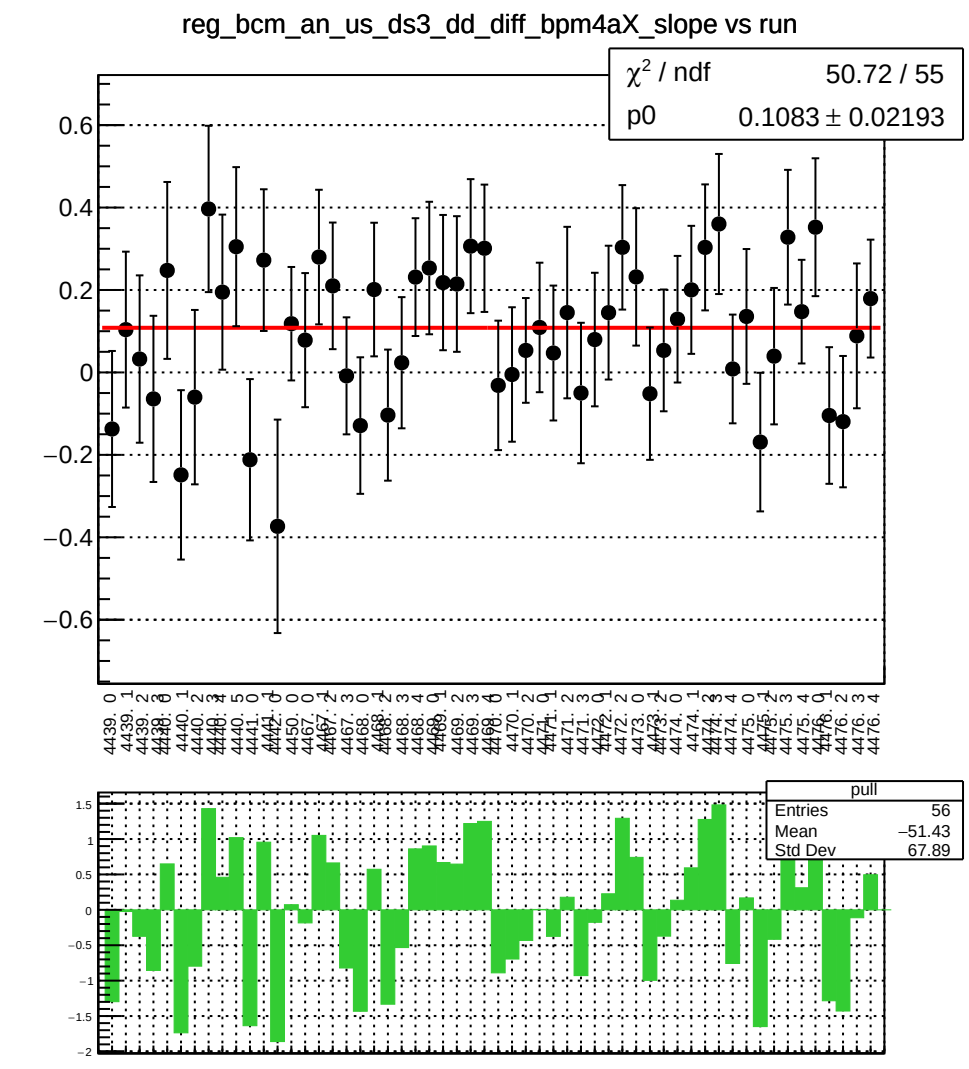

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 728.5 / 55
p0 1.93 ± 0.03254
pull
Entries 56
Mean 98.41
Std Dev 70.87

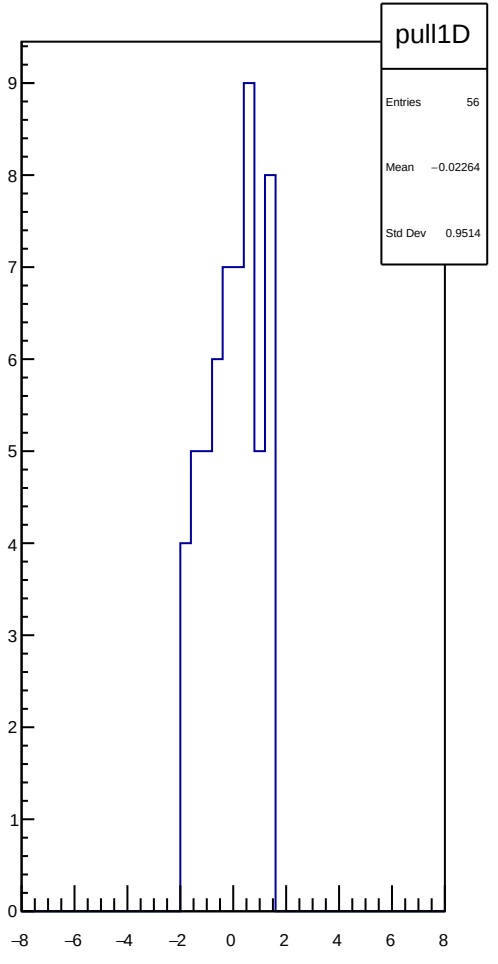

pull1D
Entries 56
Mean 0.8347
Std Dev 3.309

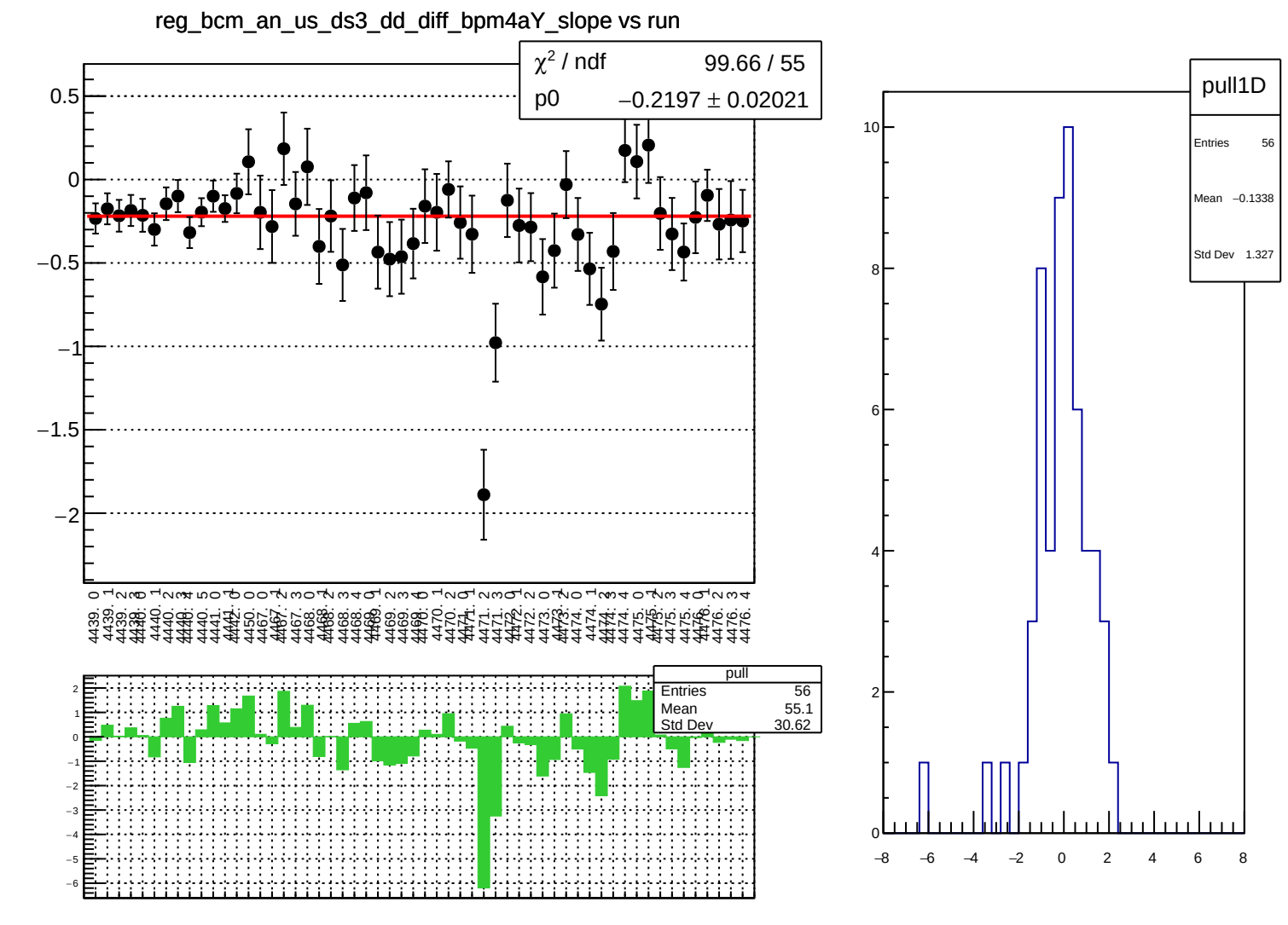

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 469.7 / 55
p0 4.077 ± 0.2522
pull
Entries 56
Mean −139.5
Std Dev 166.9
pull1D
Entries 56
Mean 0.1101
Std Dev 2.42

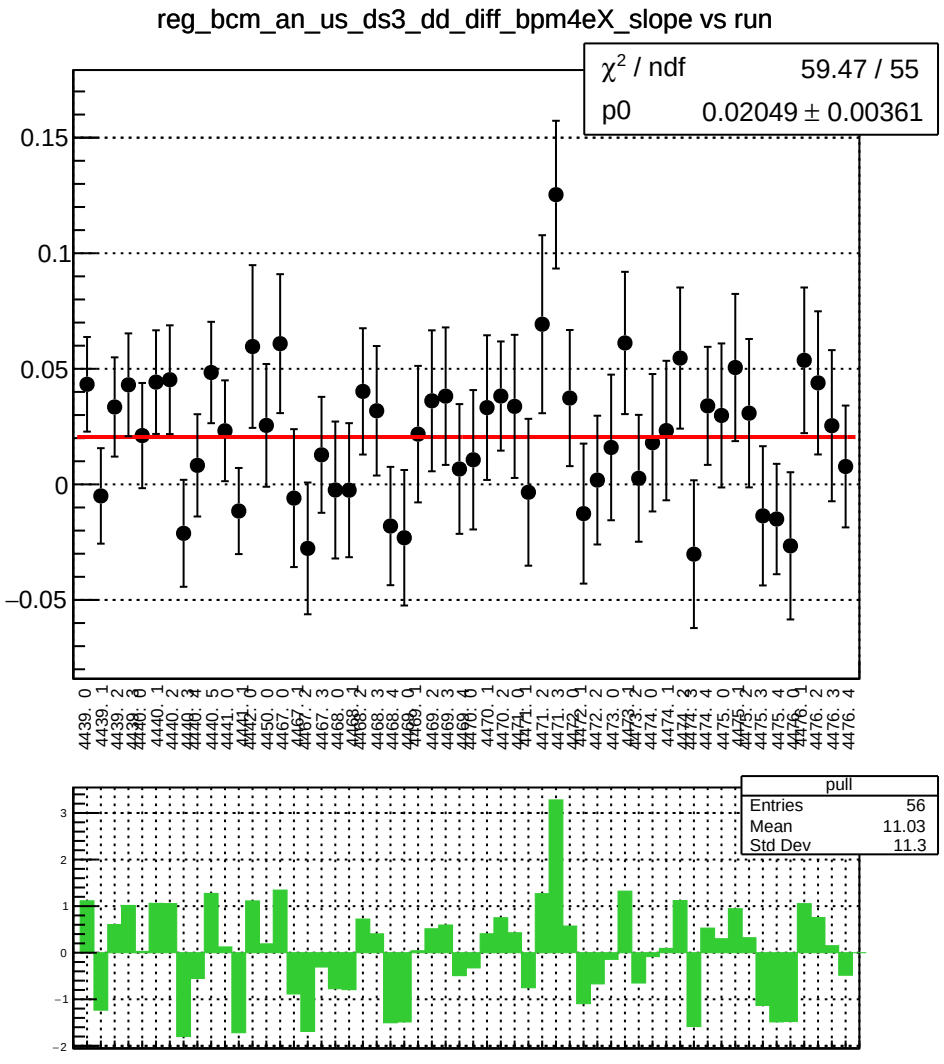

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 407.4 / 55
p0 1.04 ± 0.0416
pull
Entries 56
Mean 100.3
Std Dev 72.03

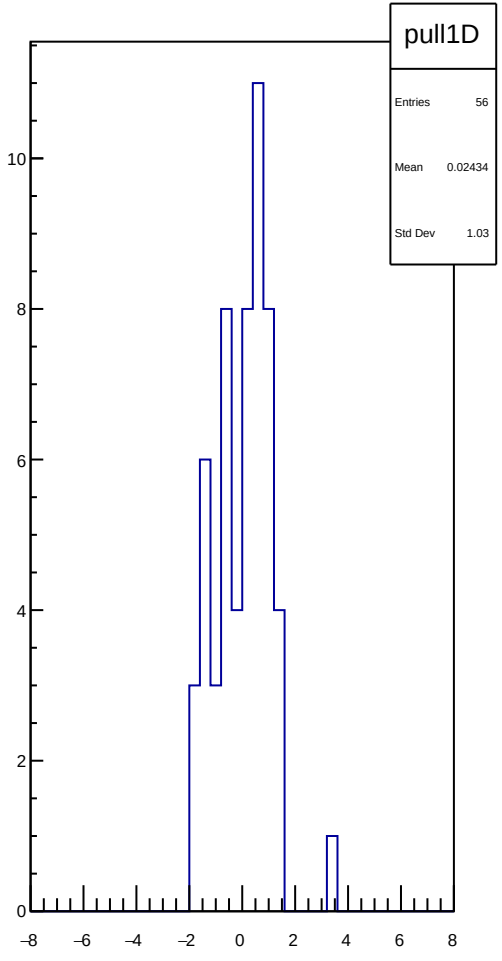

pull1D
Entries 56
Mean 0.382
Std Dev 2.67

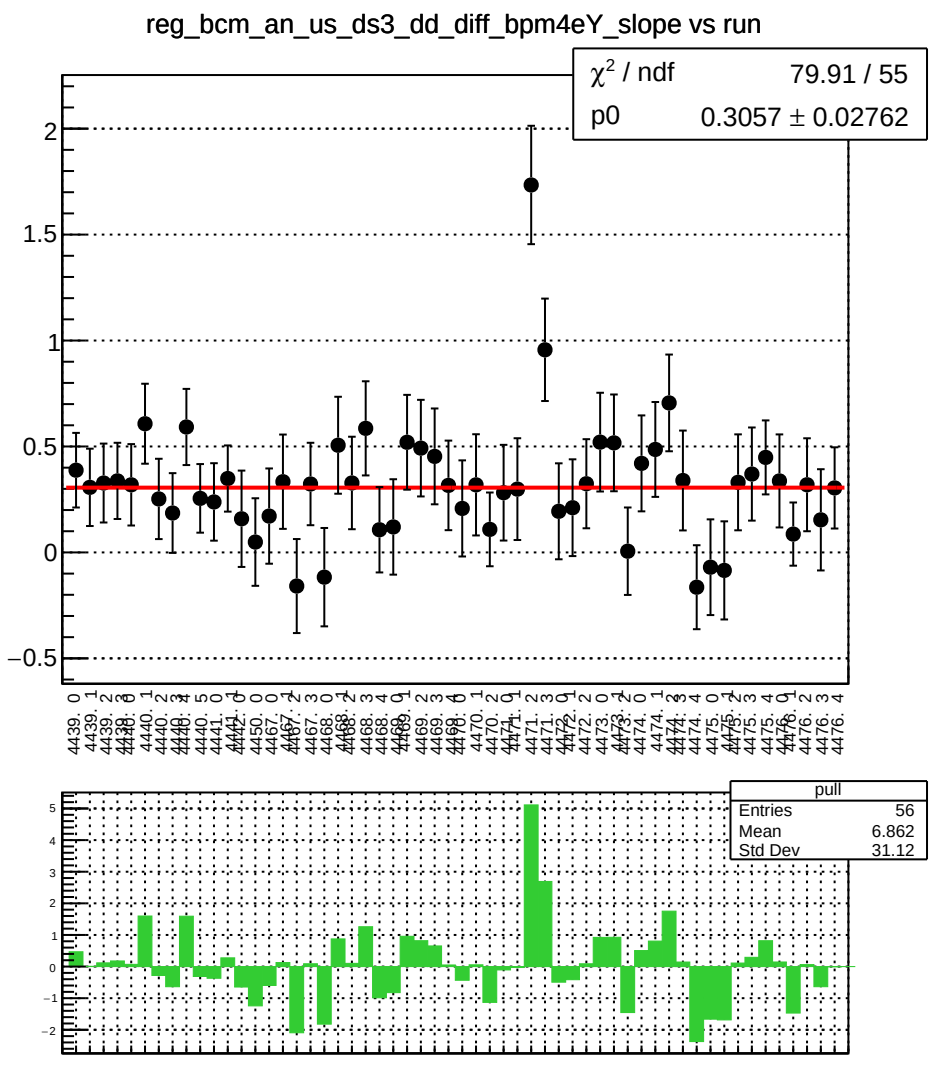

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 50.72 / 55
p0 0.1083 ± 0.02193
pull
Entries 56
Mean −51.43
Std Dev 67.89

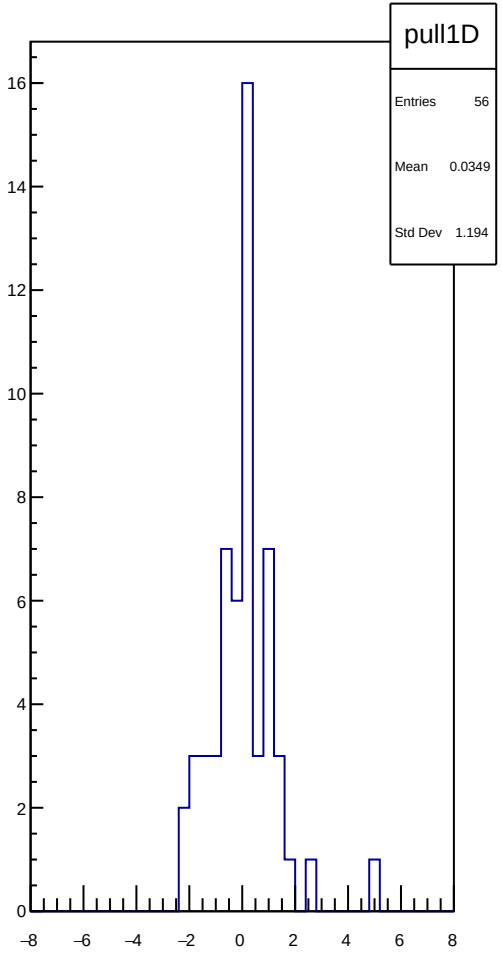

pull1D
Entries 56
Mean −0.02264
Std Dev 0.9514

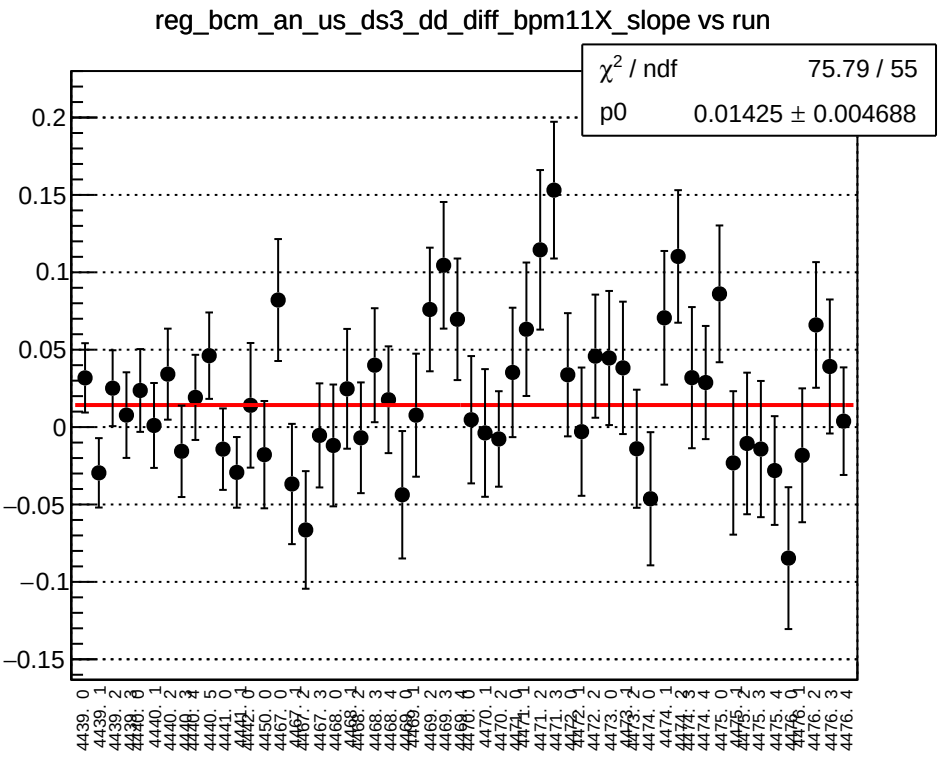

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 99.66 / 55
p0 −0.2197 ± 0.02021
pull
Entries 56
Mean 55.1
Std Dev 30.62
pull1D
Entries 56
Mean −0.1338
Std Dev 1.327

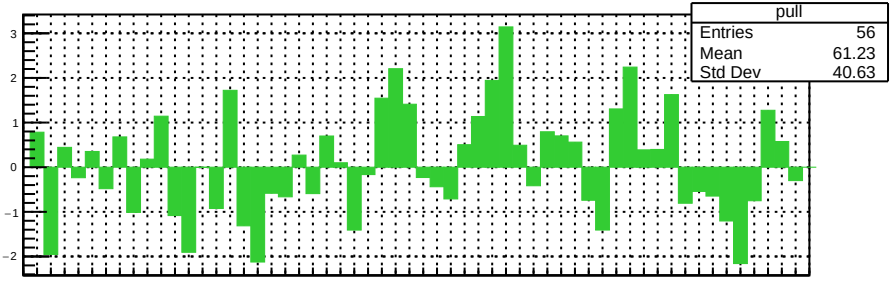

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 59.47 / 55
p0 0.02049 ± 0.00361
pull
Entries 56
Mean 11.03
Std Dev 11.3

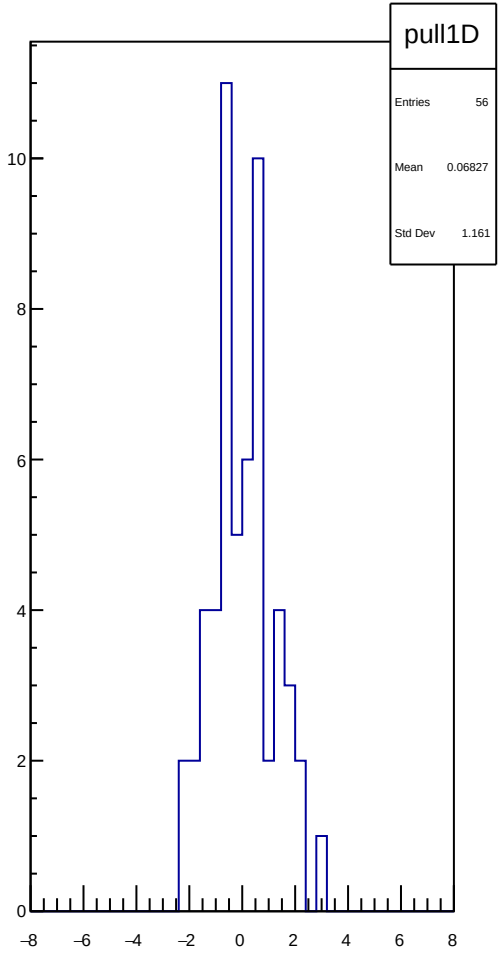

pull1D
Entries 56
Mean 0.02434
Std Dev 1.03

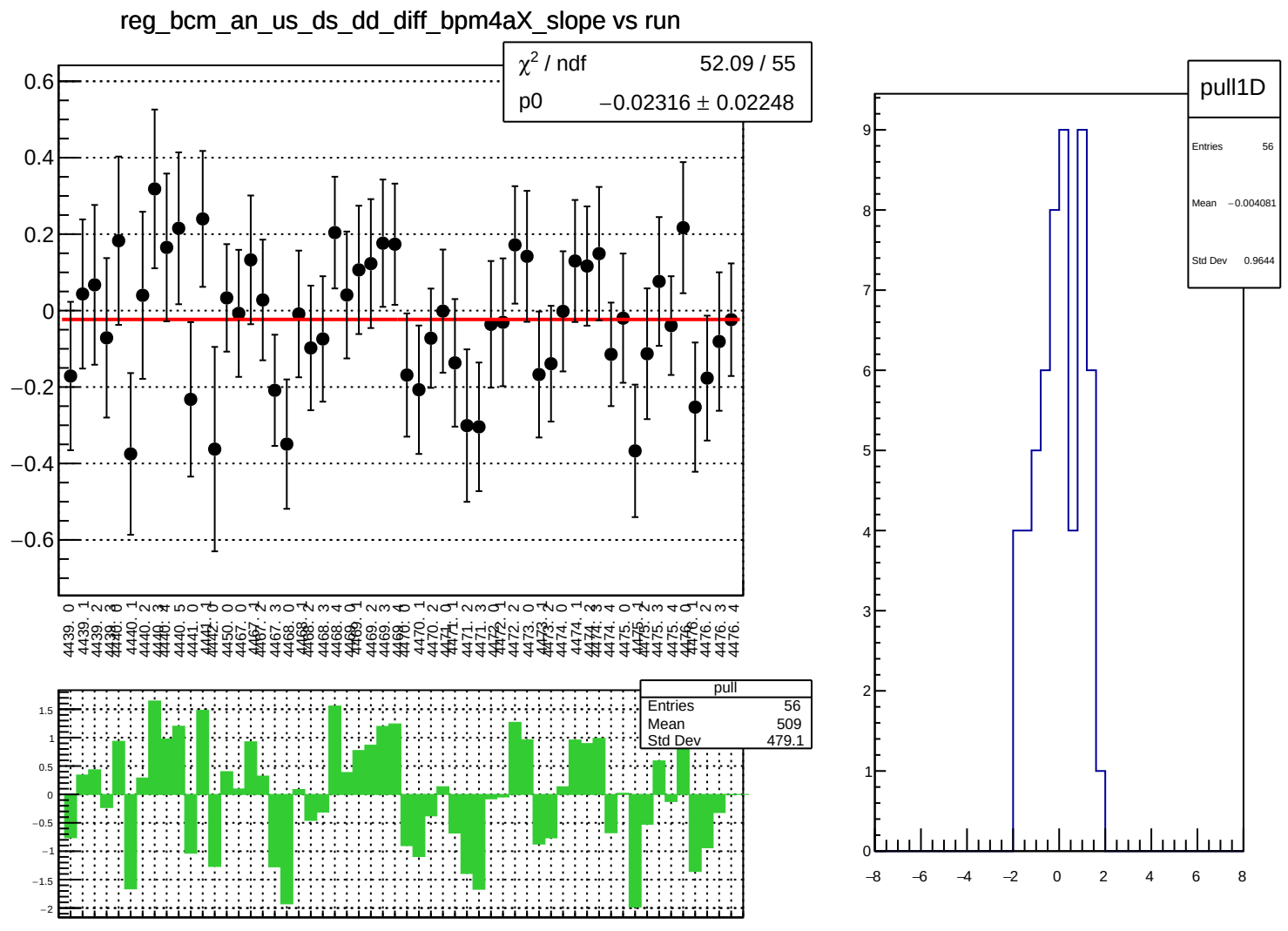

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.91 / 55
p0 0.3057 ± 0.02762
pull
Entries 56
Mean 6.862
Std Dev 31.12

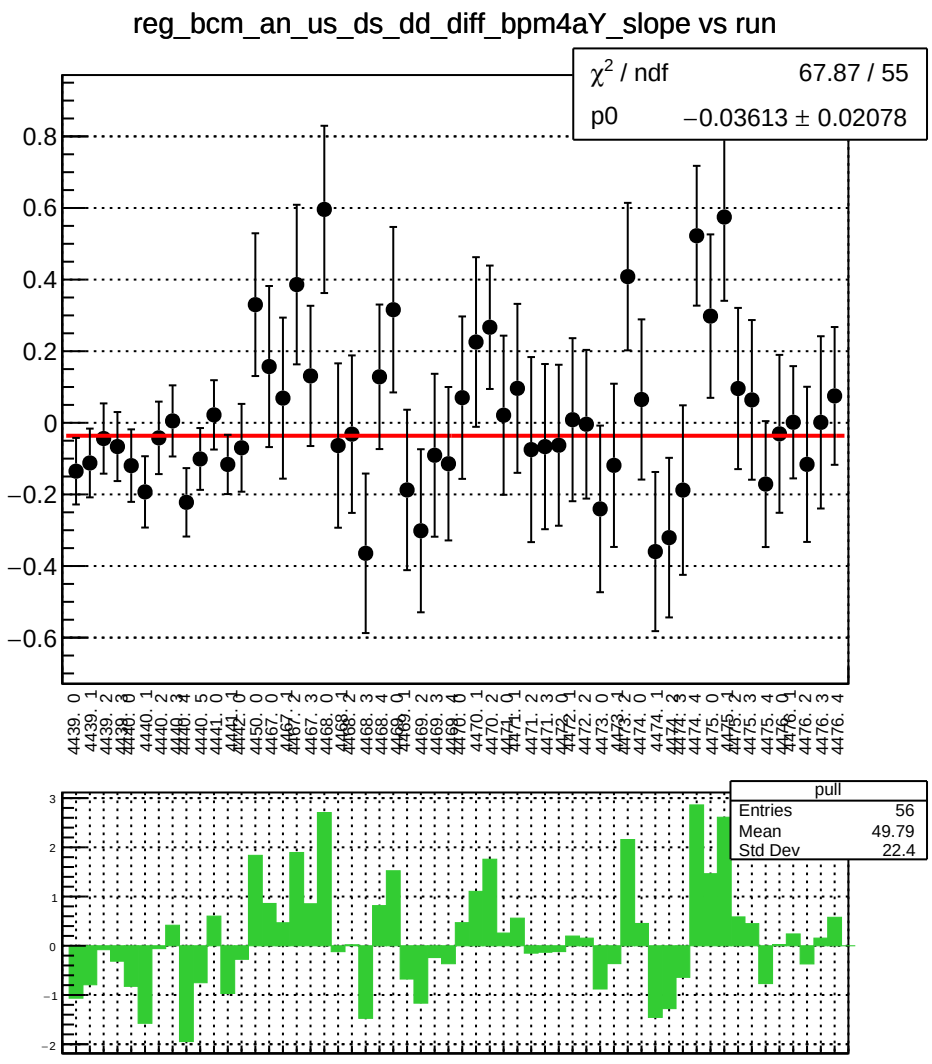

pull1D
Entries 56
Mean 0.0349
Std Dev 1.194

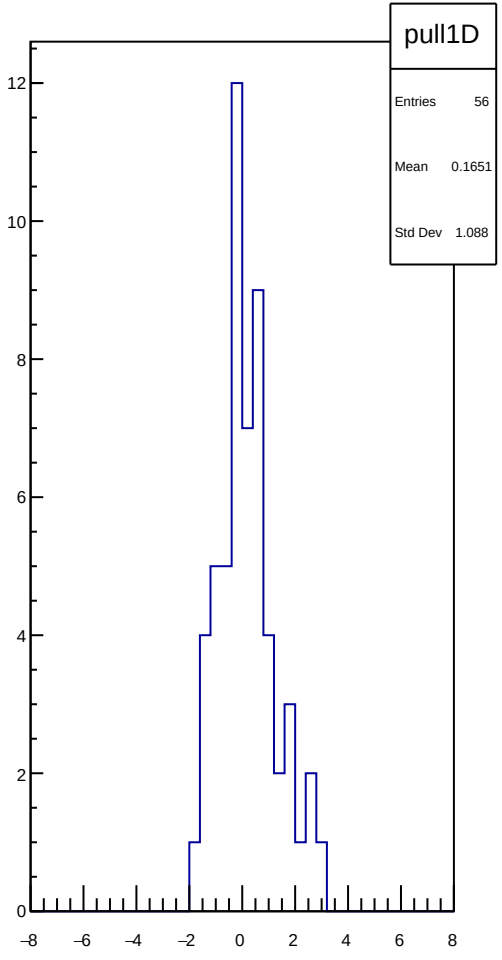

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 75.79 / 55
p0 0.01425 ± 0.004688
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

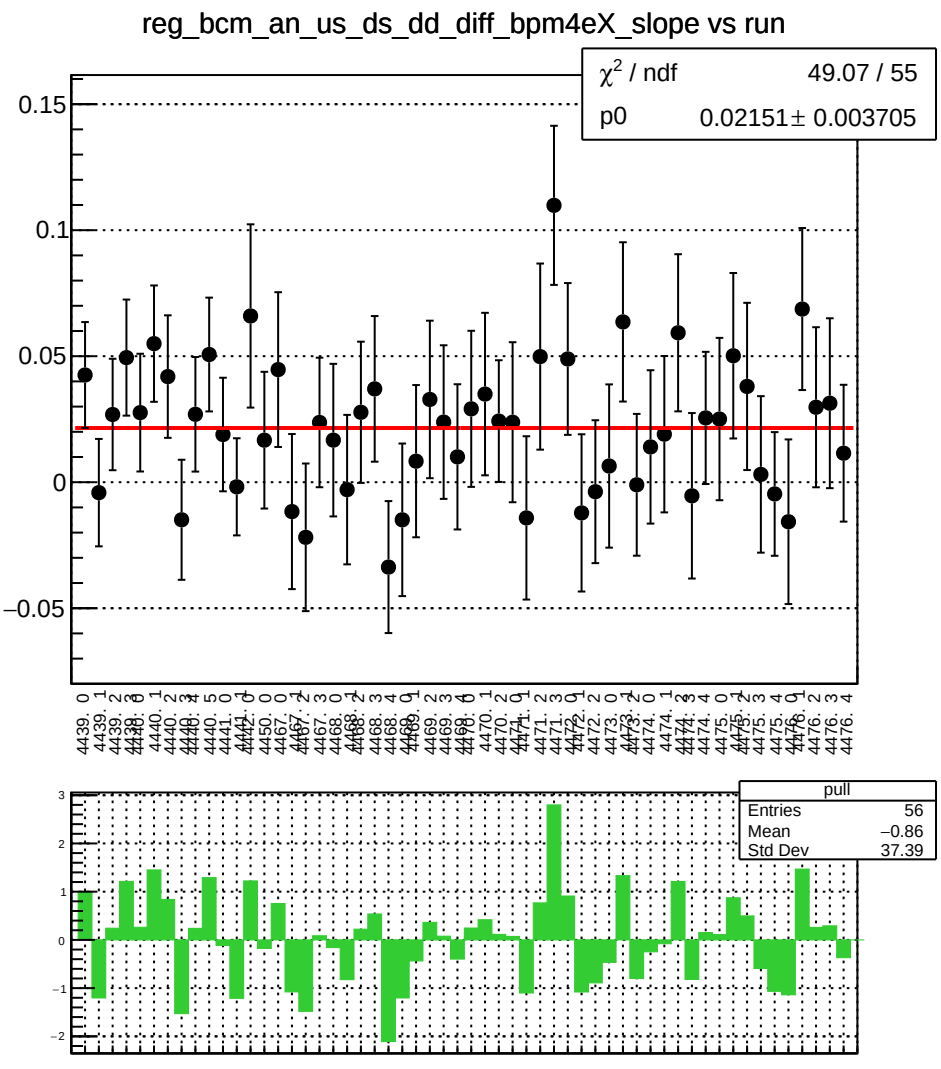

pull
Entries 56
Mean 61.23
Std Dev 40.63
3
2
1
0
−1
−2

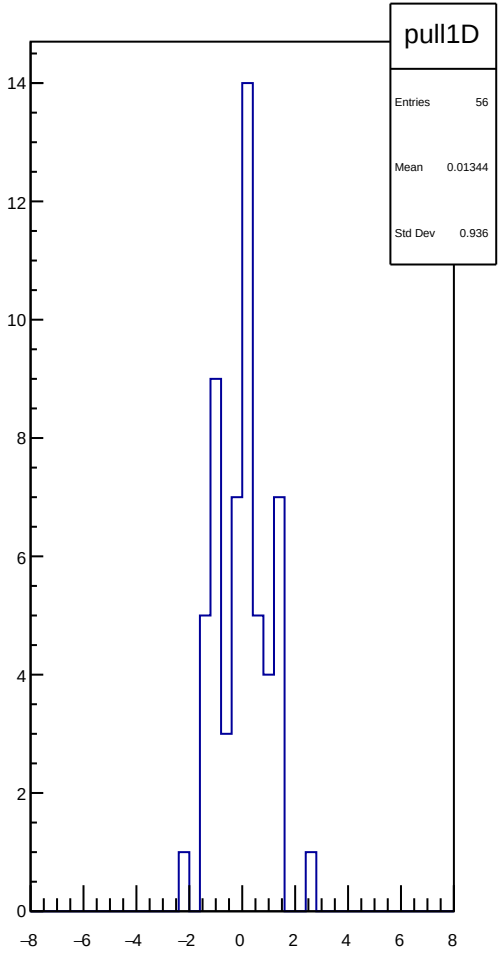

pull1D
Entries 56
Mean 0.06827
Std Dev 1.161
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

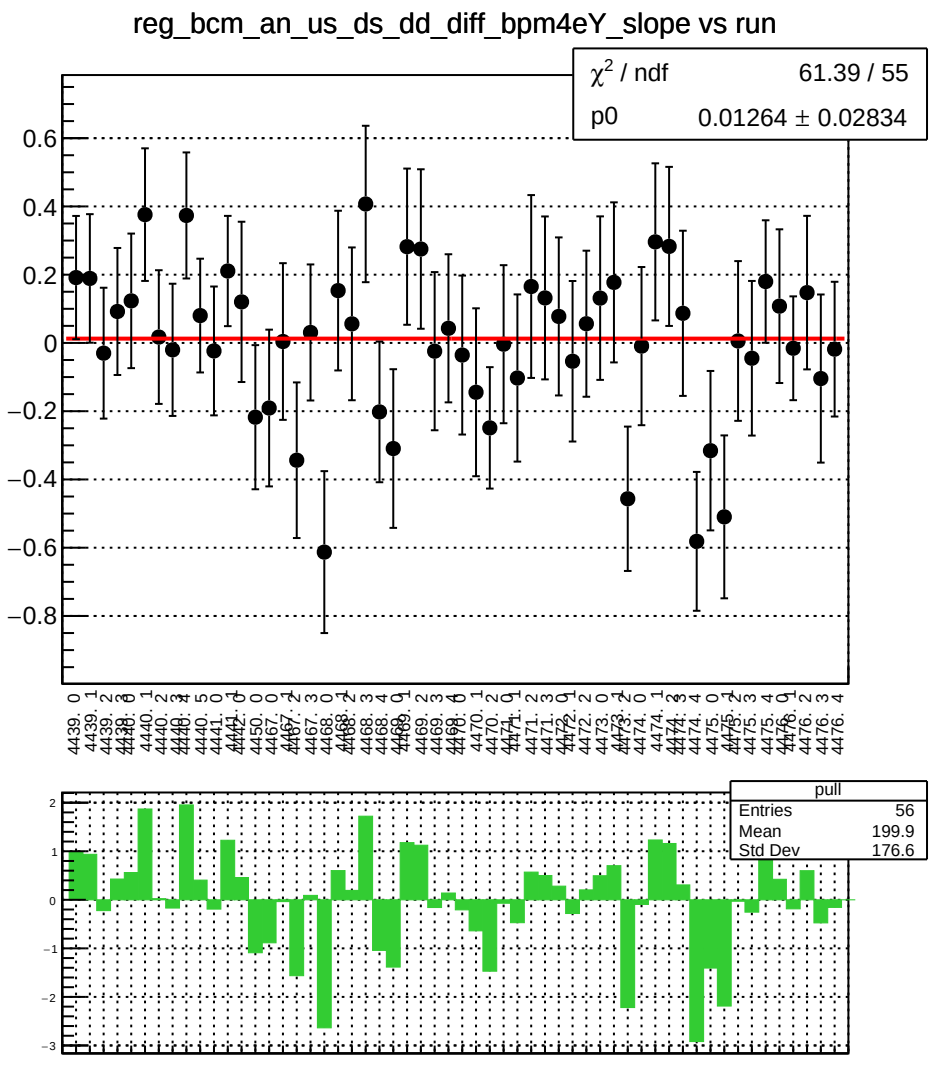

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 52.09 / 55
p0 −0.02316 ± 0.02248
pull
Entries 56
Mean 509
Std Dev 479.1
pull1D
Entries 56
Mean −0.004081
Std Dev 0.9644

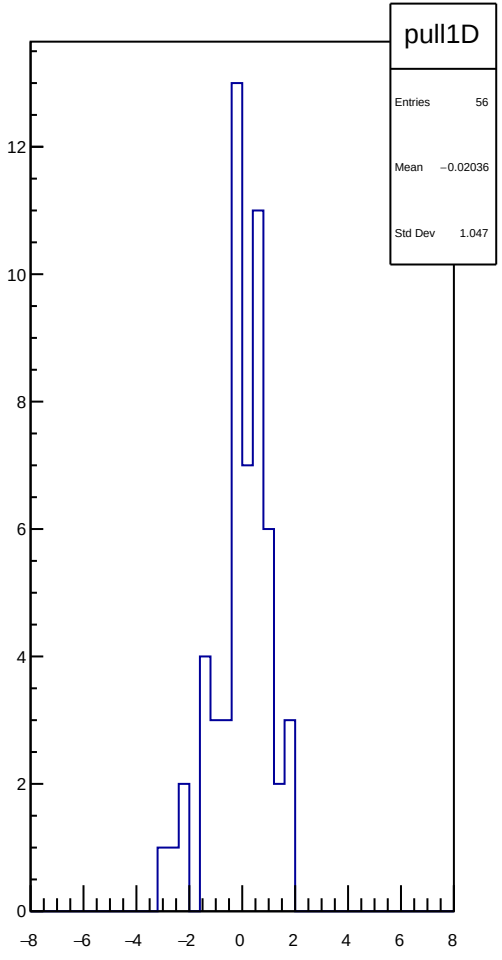

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.87 / 55
p0 −0.03613 ± 0.02078
pull
Entries 56
Mean 49.79
Std Dev 22.4

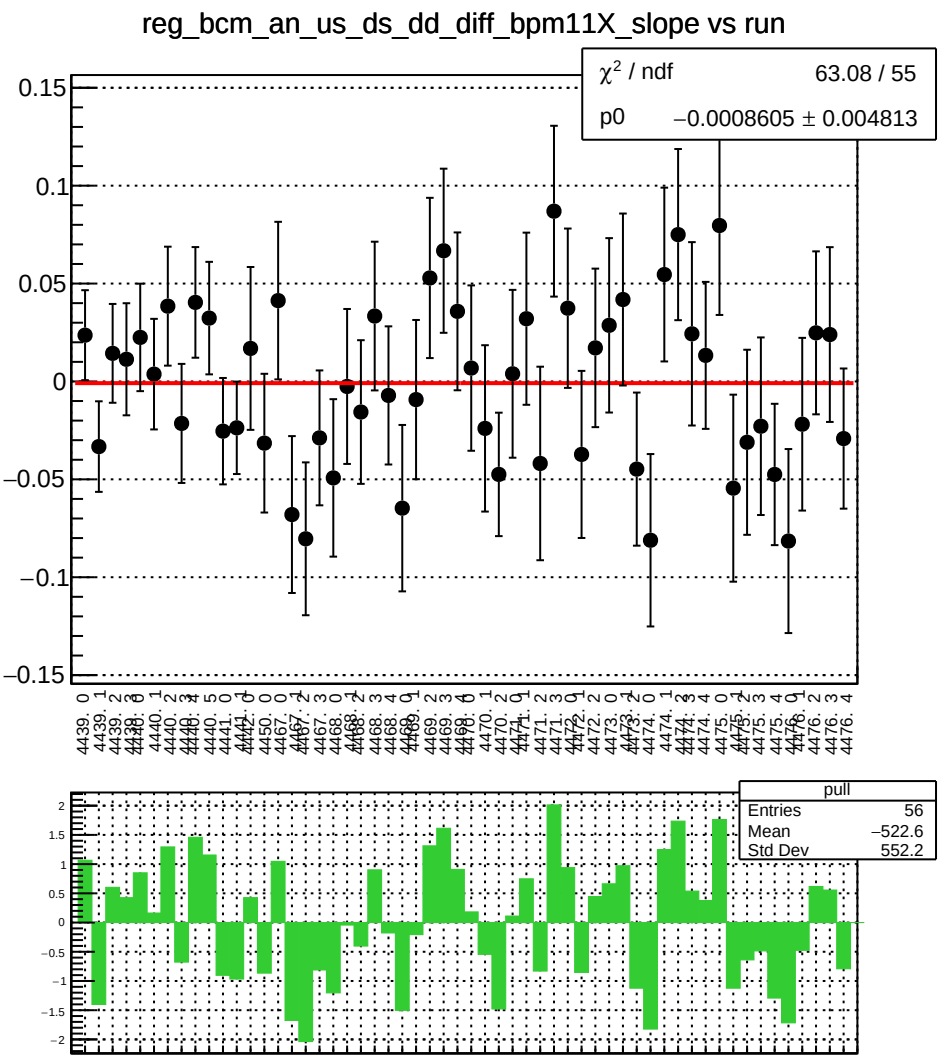

pull1D
Entries 56
Mean 0.1651
Std Dev 1.088

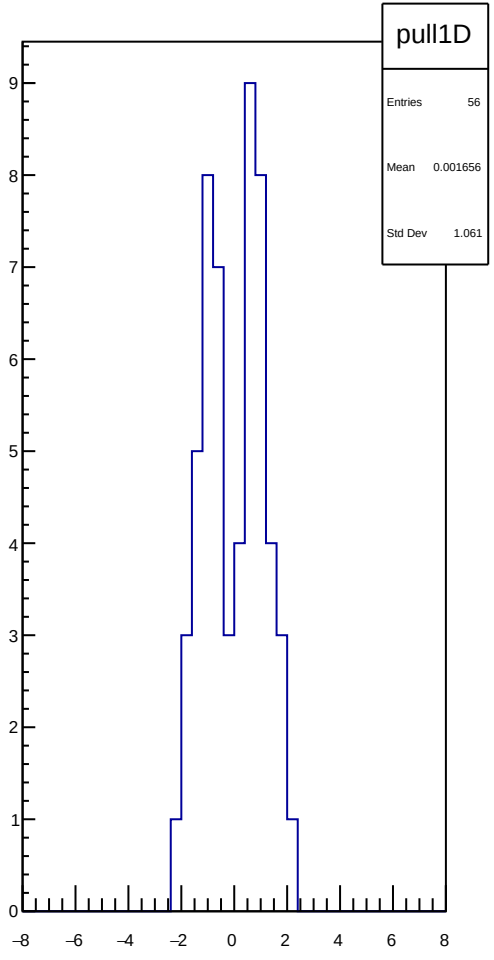

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.07 / 55
p0 0.02151± 0.003705
0.15
0.1
0.05
0
−0.05
pull
Entries 56
Mean −0.86
Std Dev 37.39
3
2
1
0
−1
−2

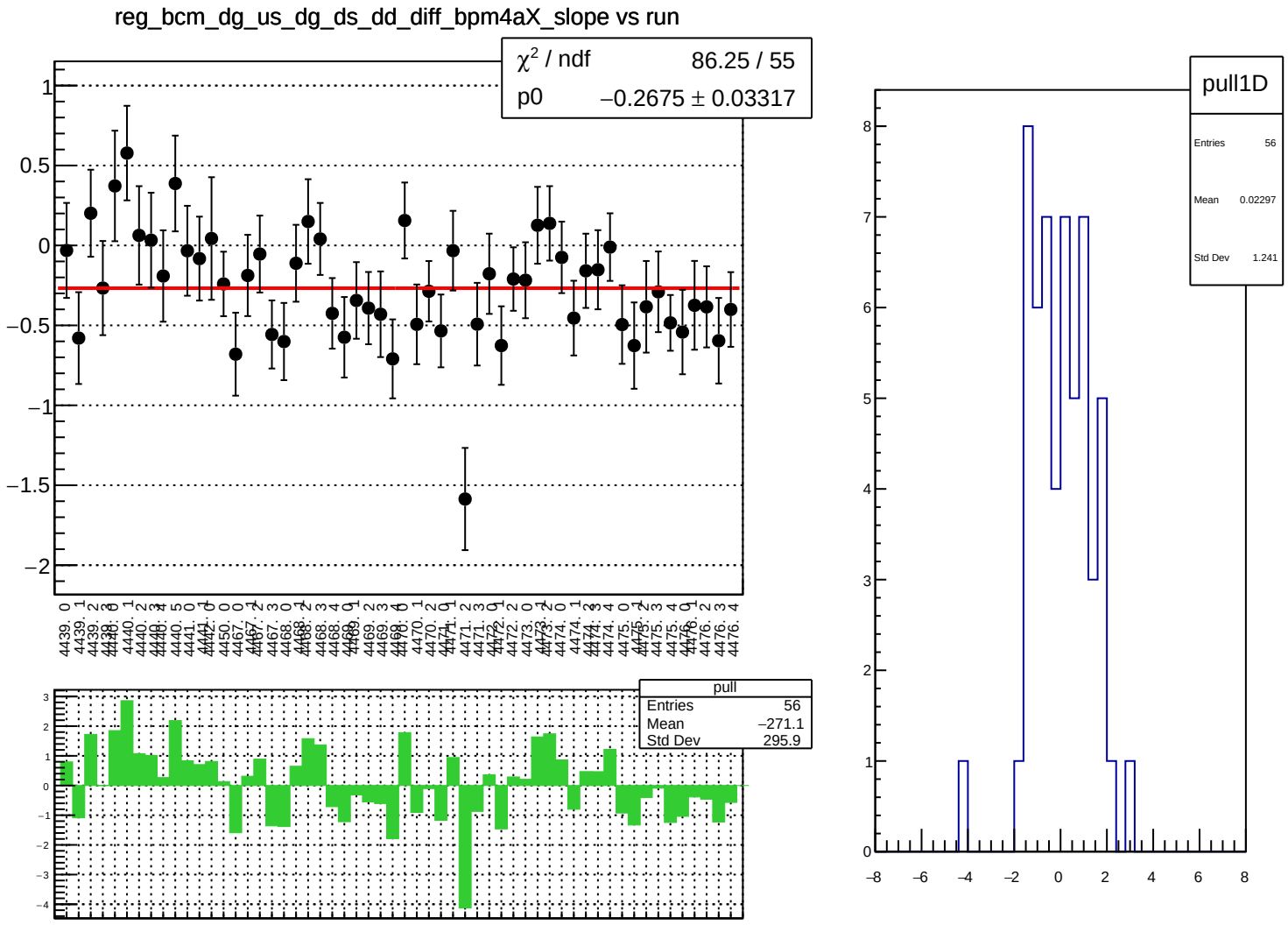

pull1D
Entries 56
Mean 0.01344
Std Dev 0.936
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

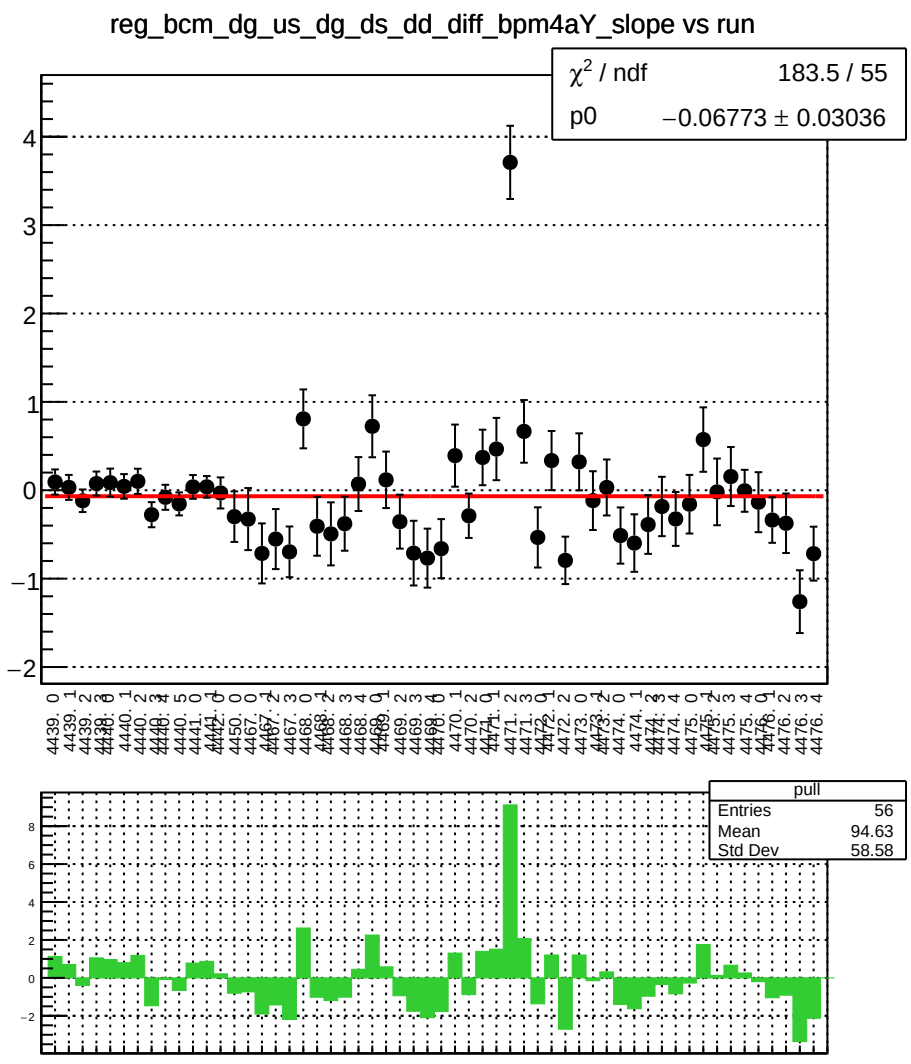

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 61.39 / 55
p0 0.01264 ± 0.02834
pull
Entries 56
Mean 199.9
Std Dev 176.6

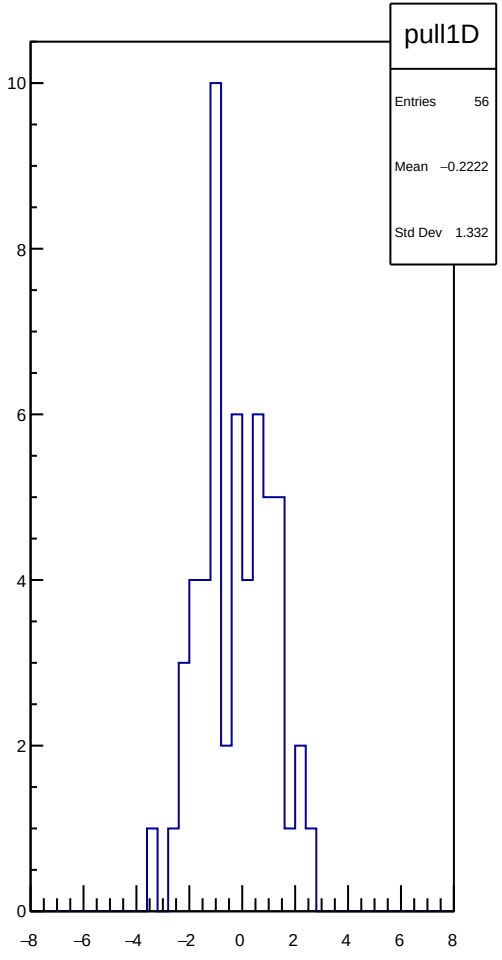

pull1D
Entries 56
Mean −0.02036
Std Dev 1.047

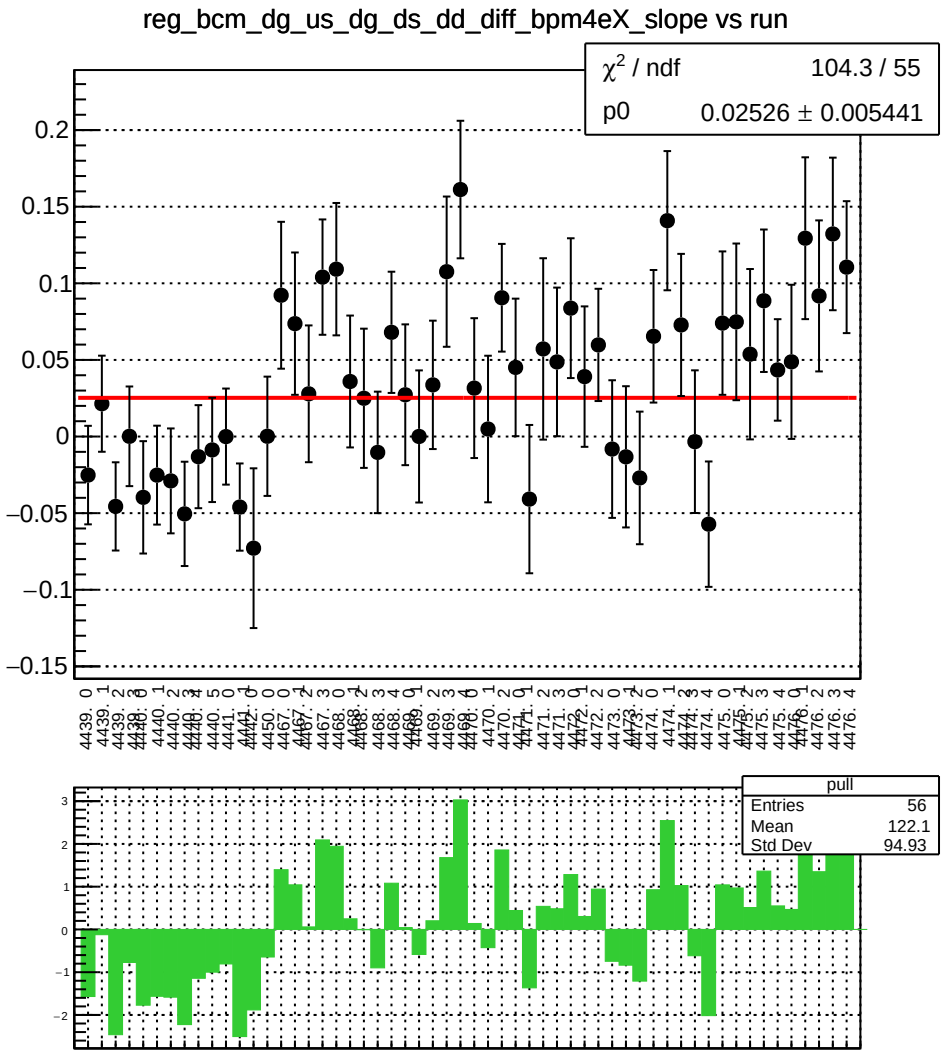

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 63.08 / 55
p0 −0.0008605 ± 0.004813
pull
Entries 56
Mean −522.6
Std Dev 552.2

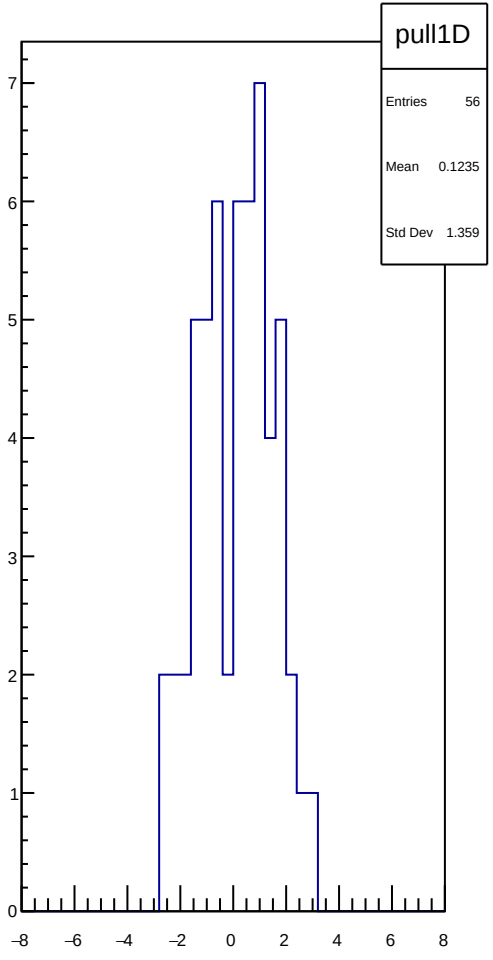

pull1D
Entries 56
Mean 0.001656
Std Dev 1.061

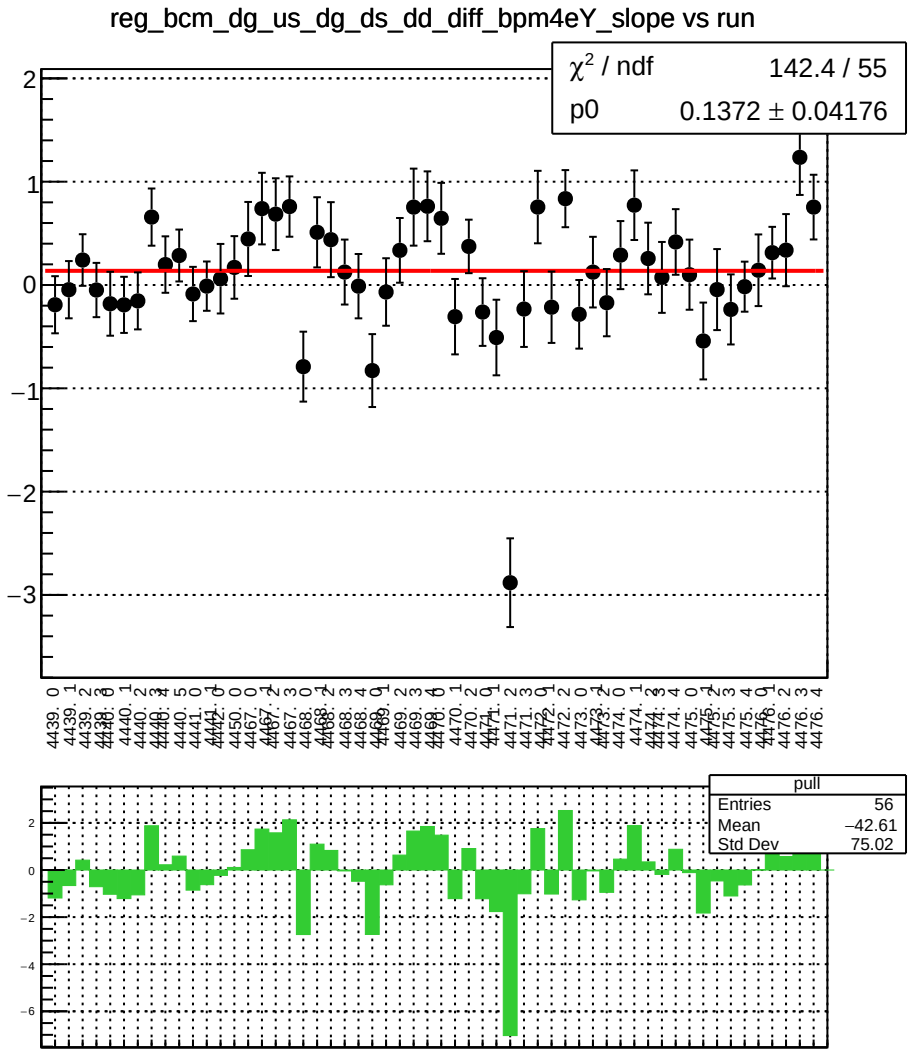

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 86.25 / 55
p0 −0.2675 ± 0.03317
pull
Entries 56
Mean −271.1
Std Dev 295.9
pull1D
Entries 56
Mean 0.02297
Std Dev 1.241

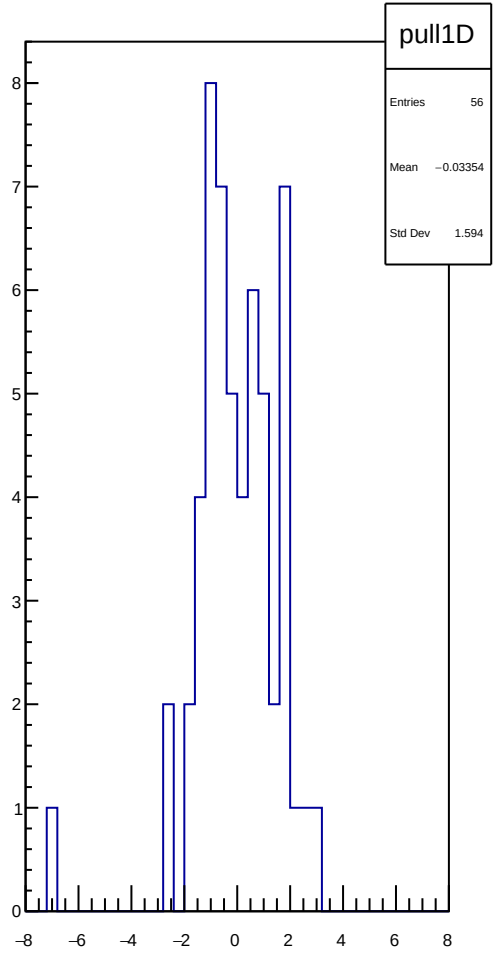

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 183.5 / 55
p0 −0.06773 ± 0.03036
pull
Entries 56
Mean 94.63
Std Dev 58.58

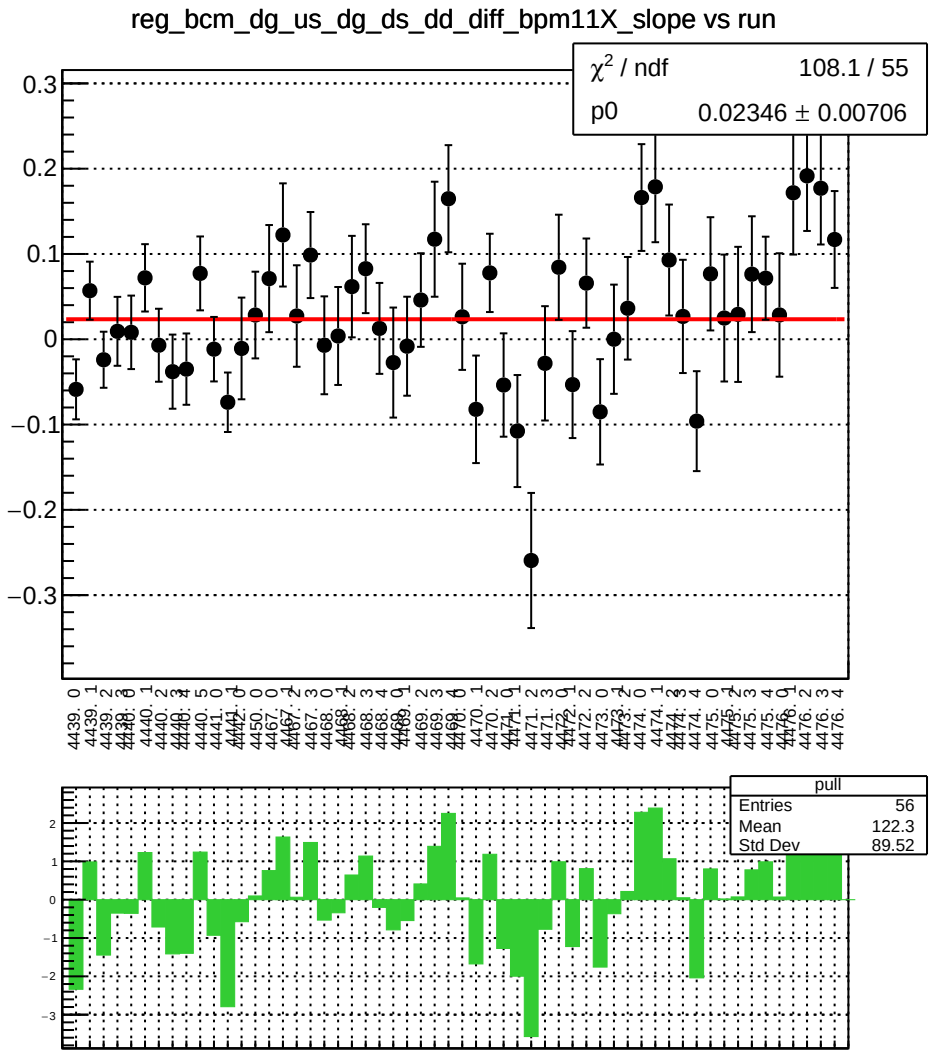

pull1D
Entries 56
Mean −0.2222
Std Dev 1.332

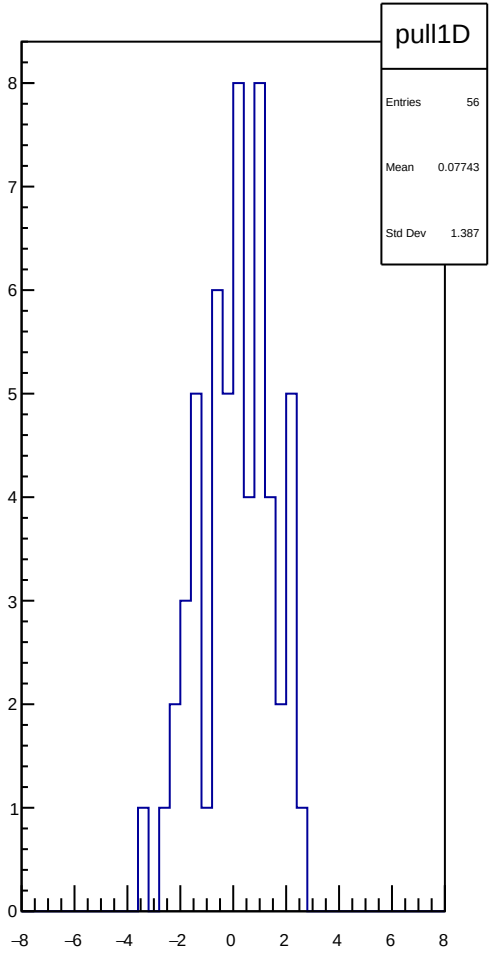

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 104.3 / 55
p0 0.02526 ± 0.005441
pull
Entries 56
Mean 122.1
Std Dev 94.93

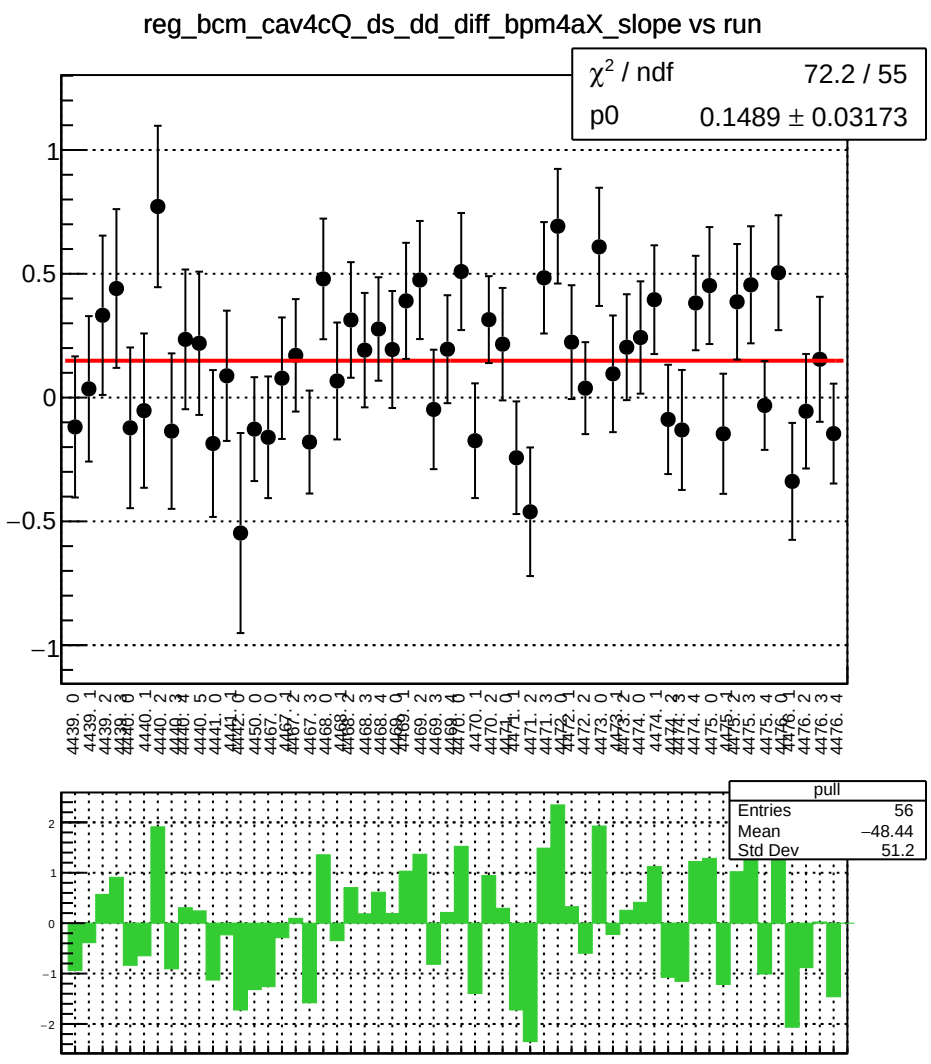

pull1D
Entries 56
Mean 0.1235
Std Dev 1.359

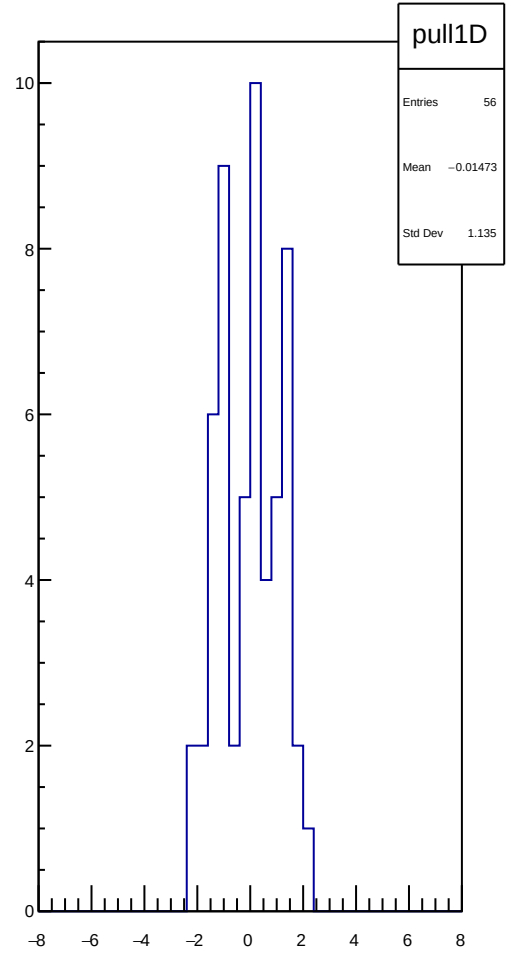

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 142.4 / 55
p0 0.1372 ± 0.04176
pull
Entries 56
Mean −42.61
Std Dev 75.02

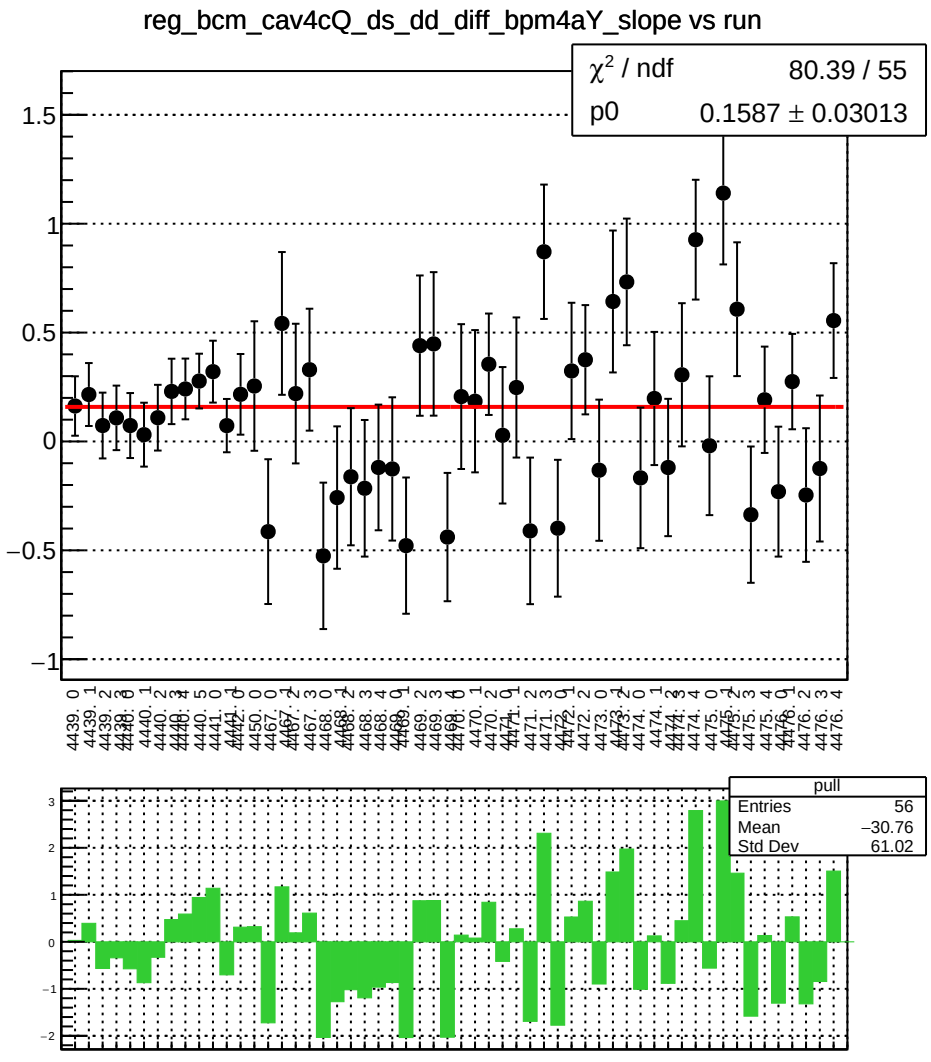

pull1D
Entries 56
Mean −0.03354
Std Dev 1.594

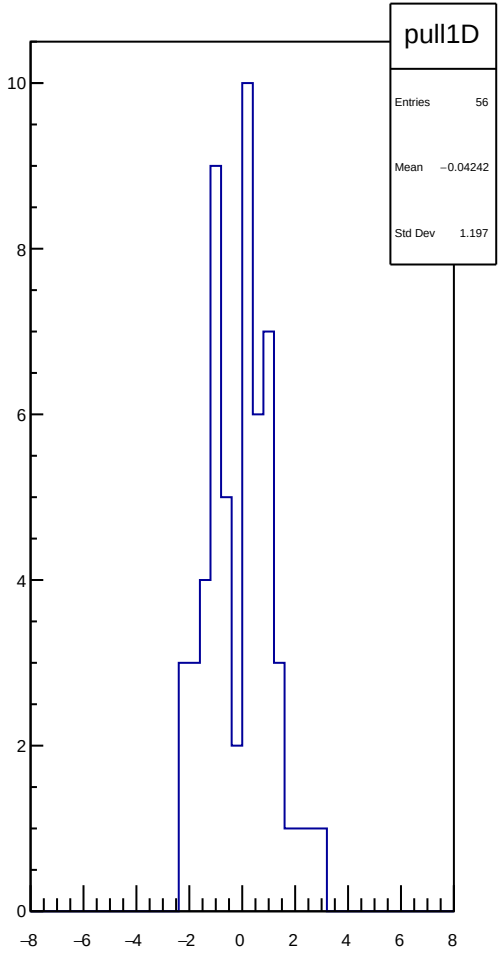

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 108.1 / 55
p0 0.02346 ± 0.00706
pull
Entries 56
Mean 122.3
Std Dev 89.52

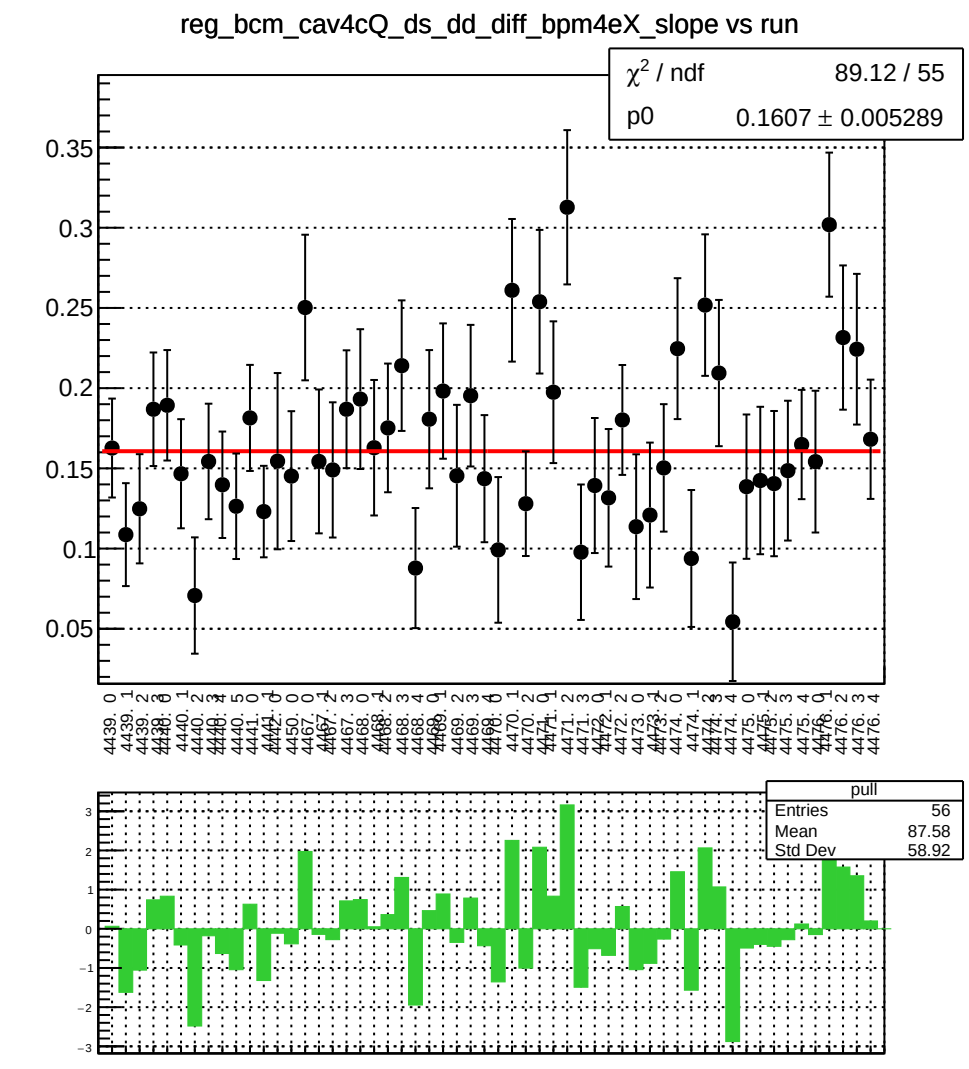

pull1D
Entries 56
Mean 0.07743
Std Dev 1.387

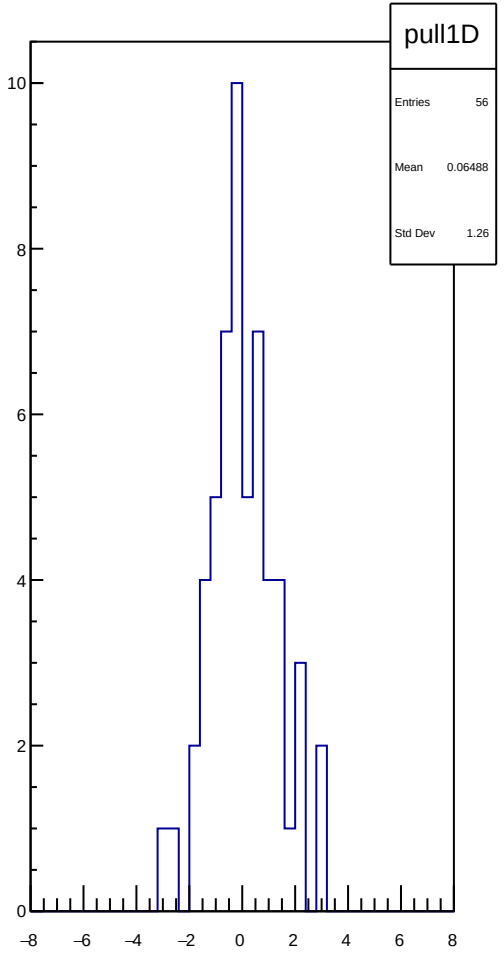

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 72.2 / 55
p0 0.1489 ± 0.03173
pull
Entries 56
Mean −48.44
Std Dev 51.2

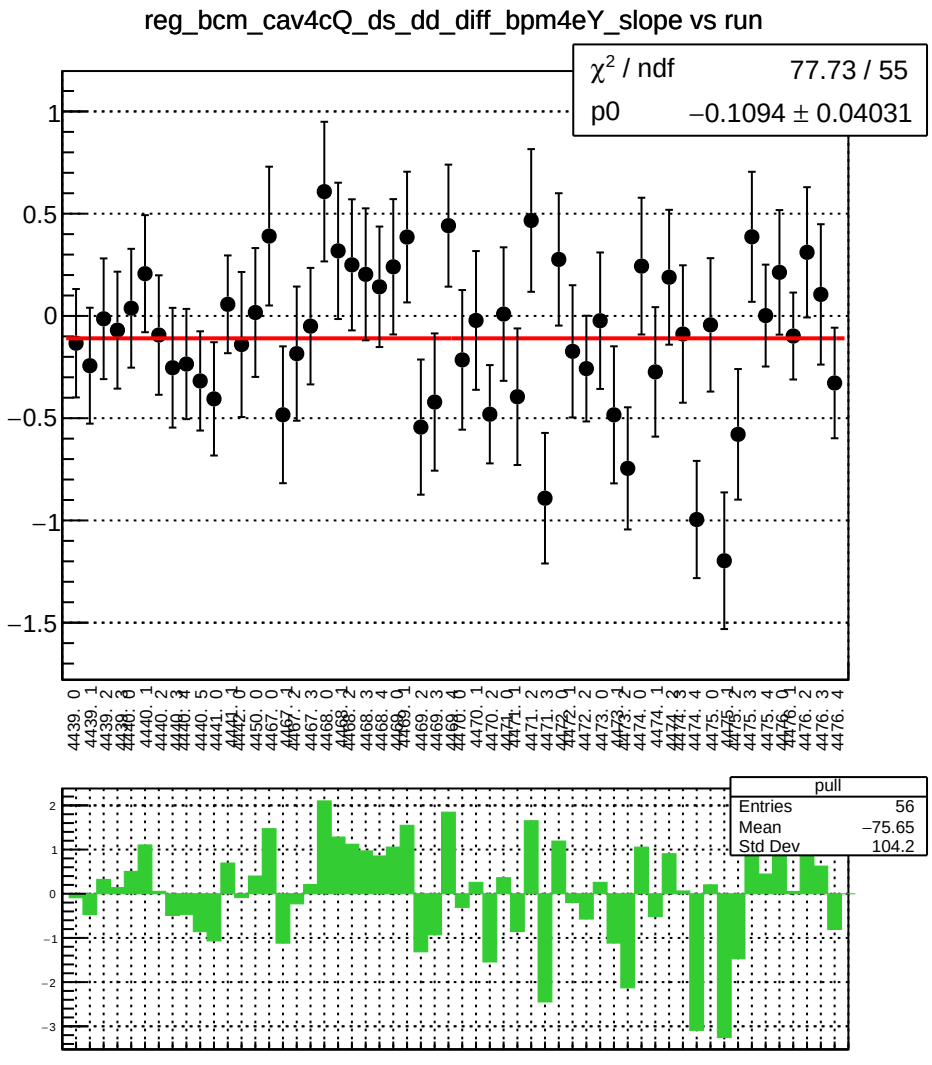

pull1D
Entries 56
Mean −0.01473
Std Dev 1.135

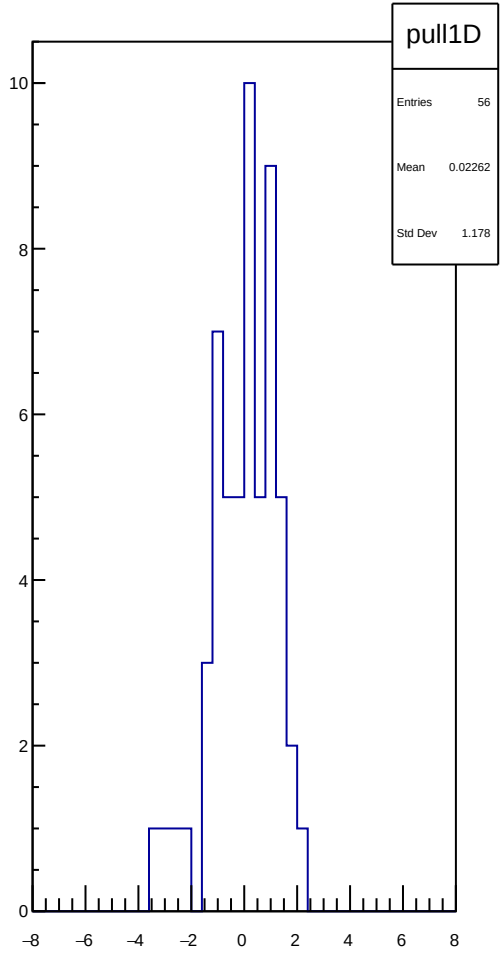

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.39 / 55
p0 0.1587 ± 0.03013
pull
Entries 56
Mean −30.76
Std Dev 61.02

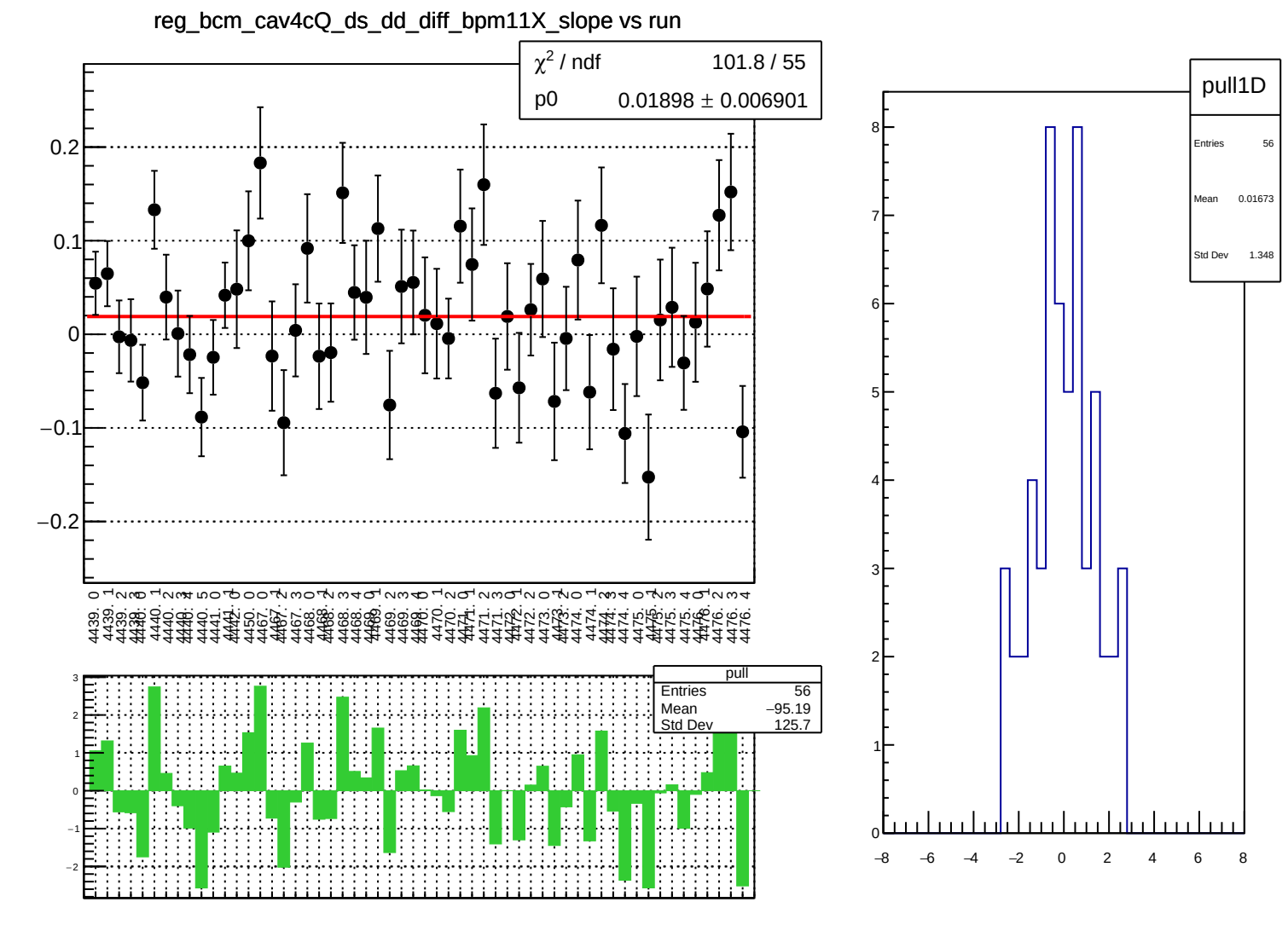

pull1D
Entries 56
Mean −0.04242
Std Dev 1.197

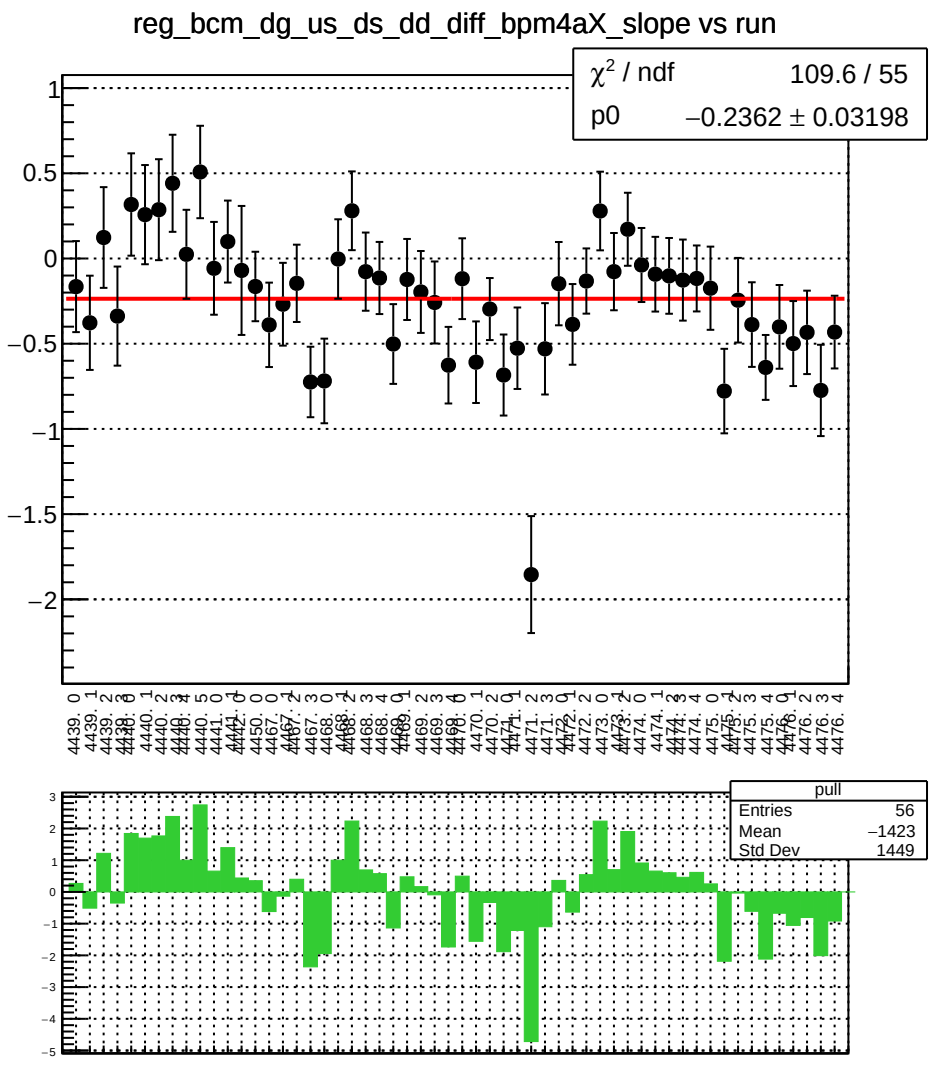

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 89.12 / 55
p0 0.1607 ± 0.005289
pull
Entries 56
Mean 87.58
Std Dev 58.92

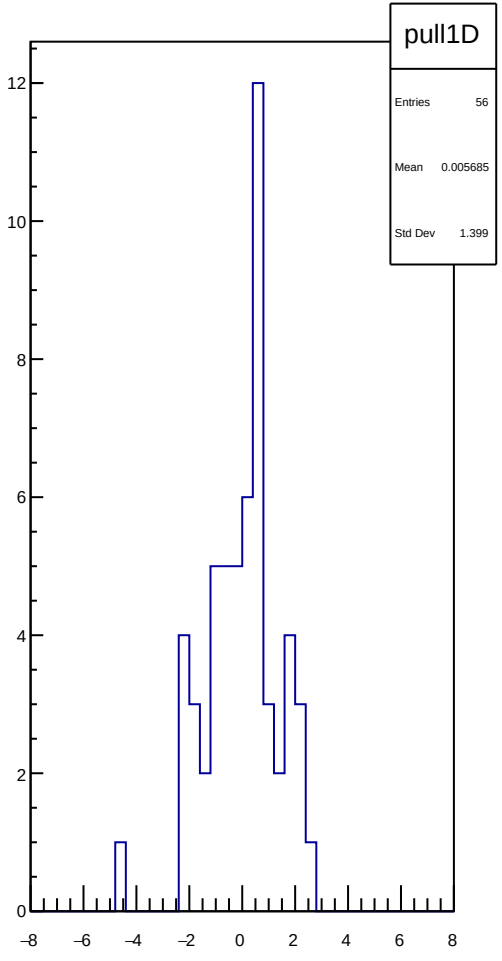

pull1D
Entries 56
Mean 0.06488
Std Dev 1.26

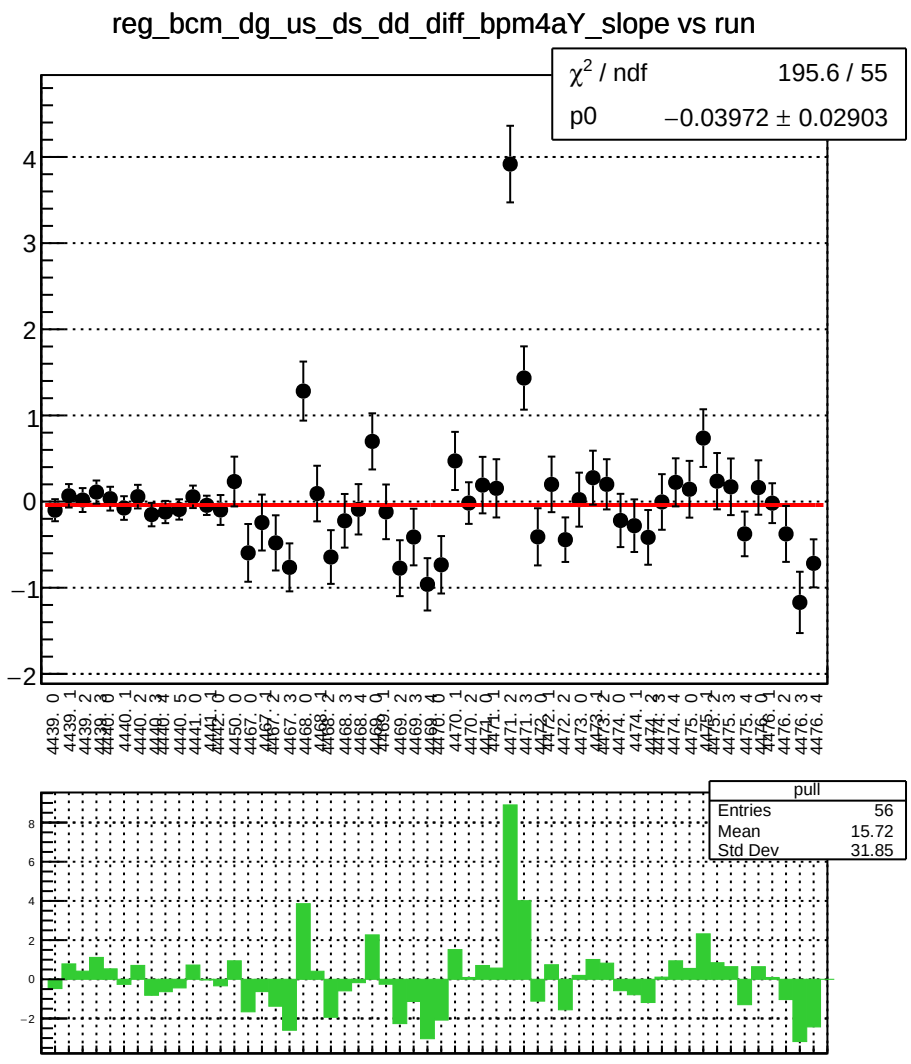

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.73 / 55
p0 −0.1094 ± 0.04031
pull
Entries 56
Mean −75.65
Std Dev 104.2

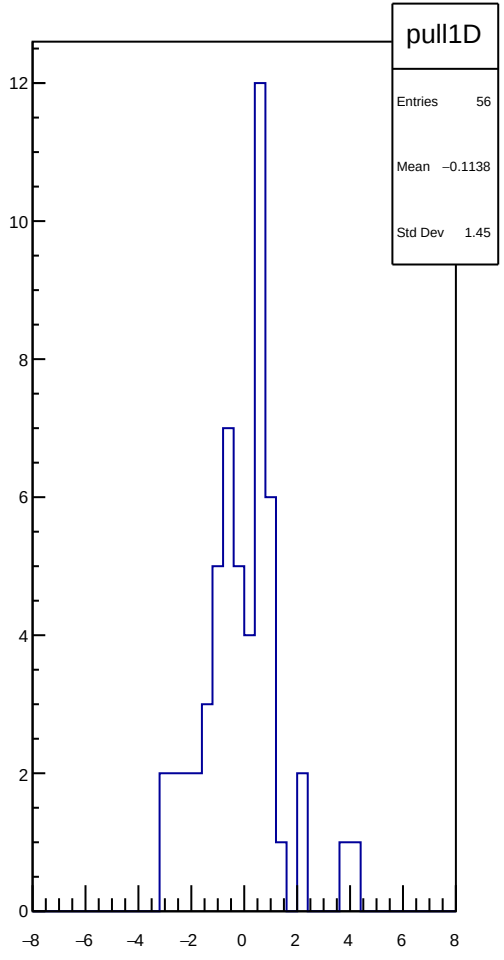

pull1D
Entries 56
Mean 0.02262
Std Dev 1.178

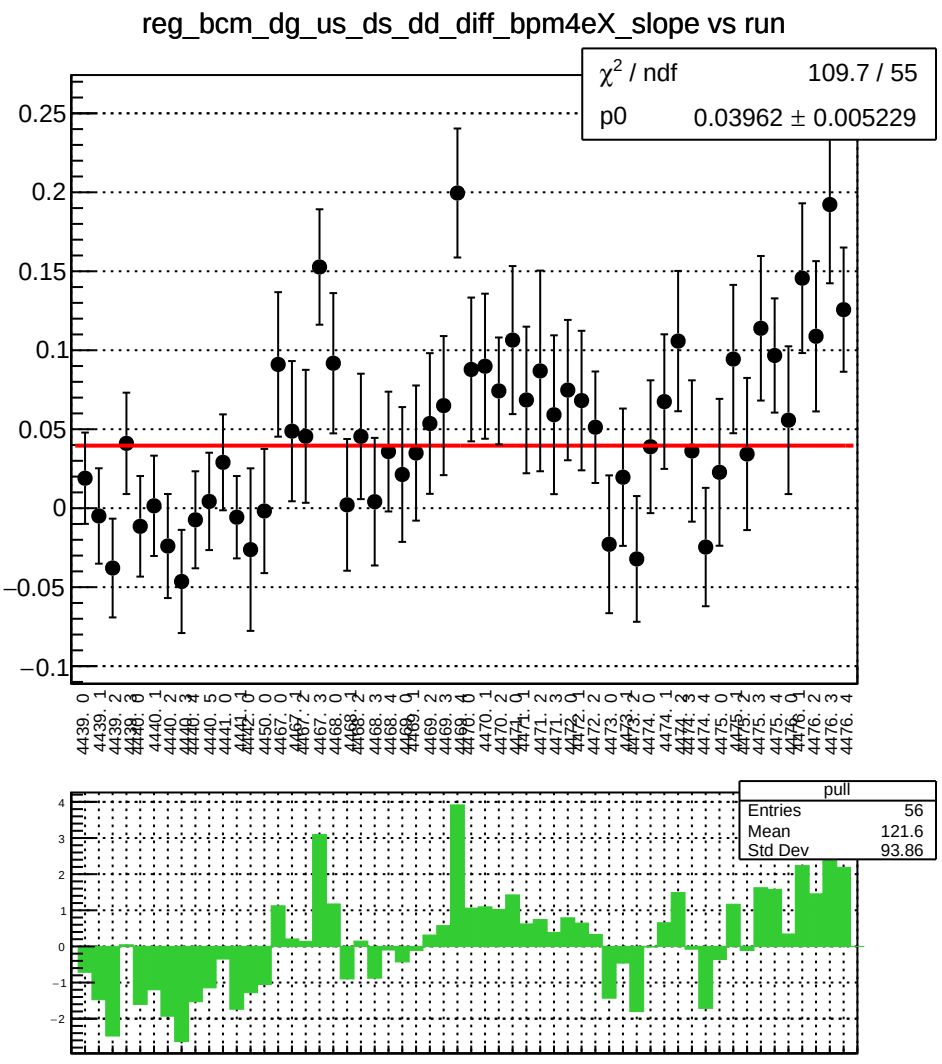

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 101.8 / 55
p0 0.01898 ± 0.006901
pull
Entries 56
Mean −95.19
Std Dev 125.7
pull1D
Entries 56
Mean 0.01673
Std Dev 1.348

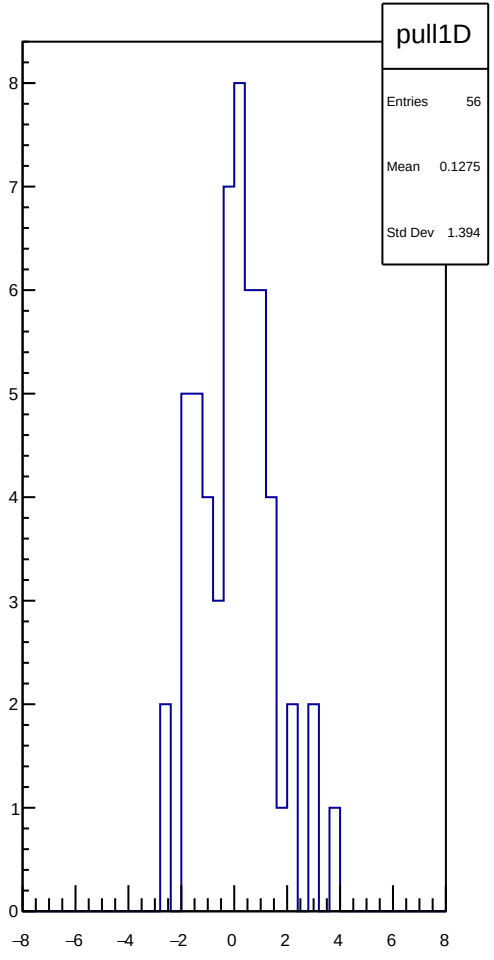

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 109.6 / 55
p0 −0.2362 ± 0.03198
pull
Entries 56
Mean −1423
Std Dev 1449

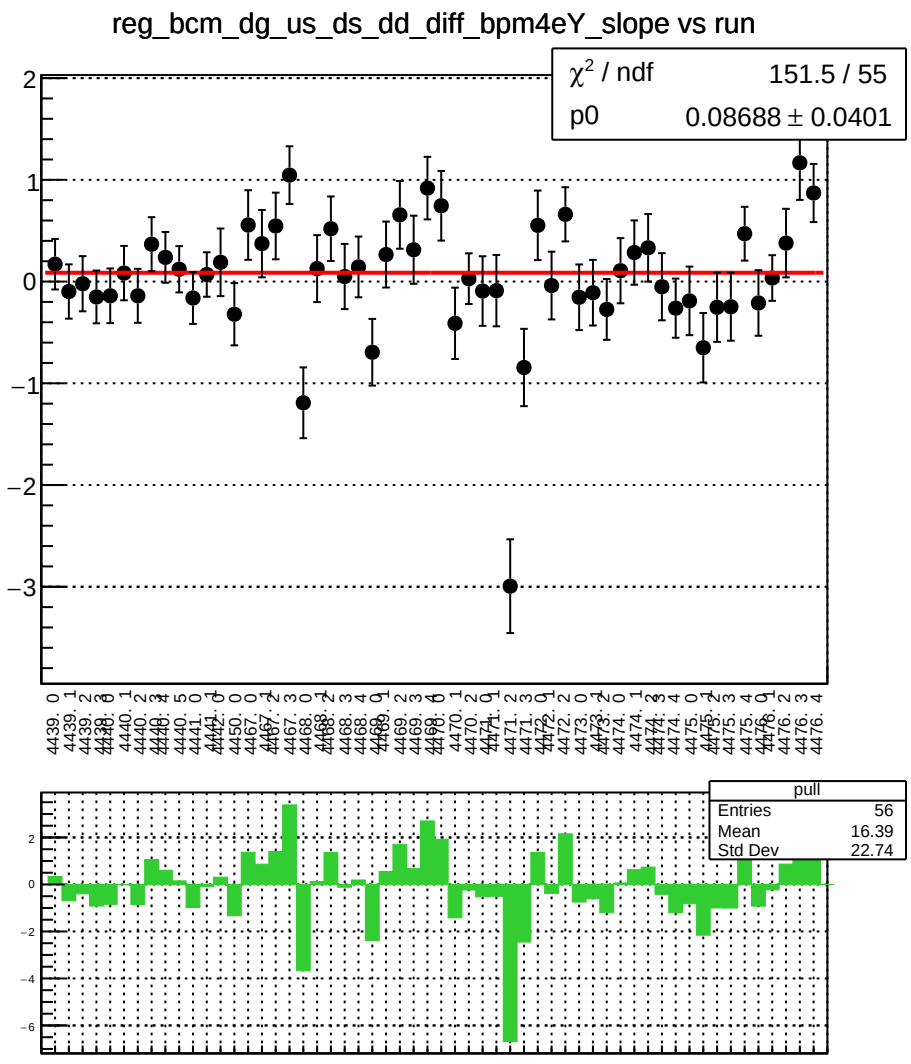

pull1D
Entries 56
Mean 0.005685
Std Dev 1.399

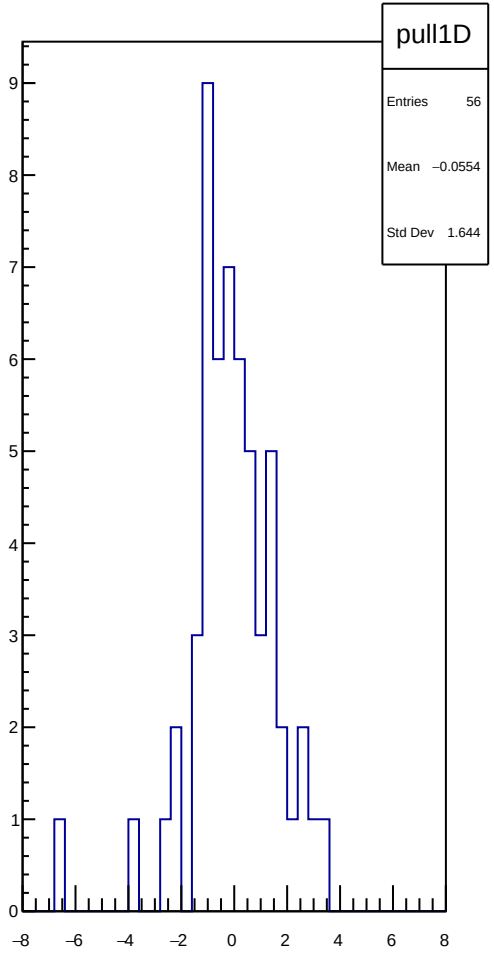

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 195.6 / 55
p0 −0.03972 ± 0.02903
pull
Entries 56
Mean 15.72
Std Dev 31.85

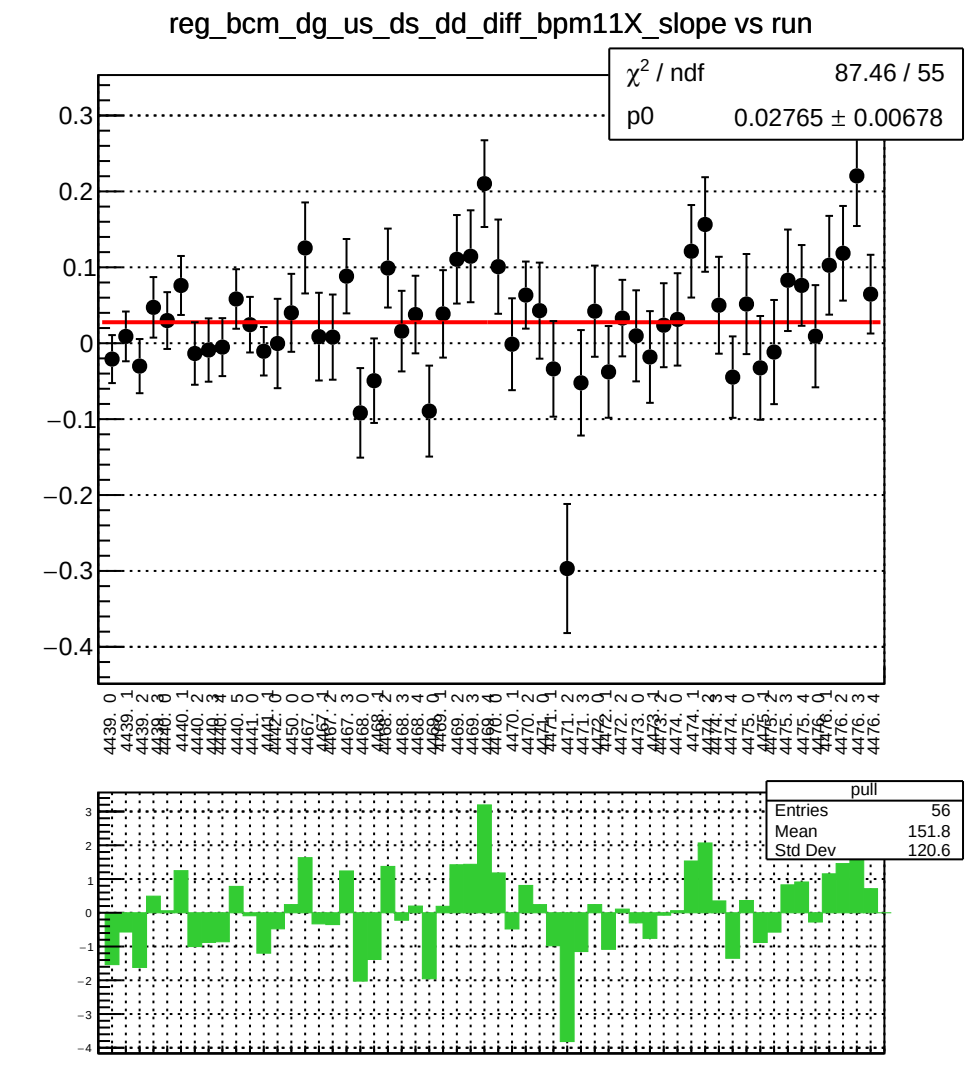

pull1D
Entries 56
Mean −0.1138
Std Dev 1.45

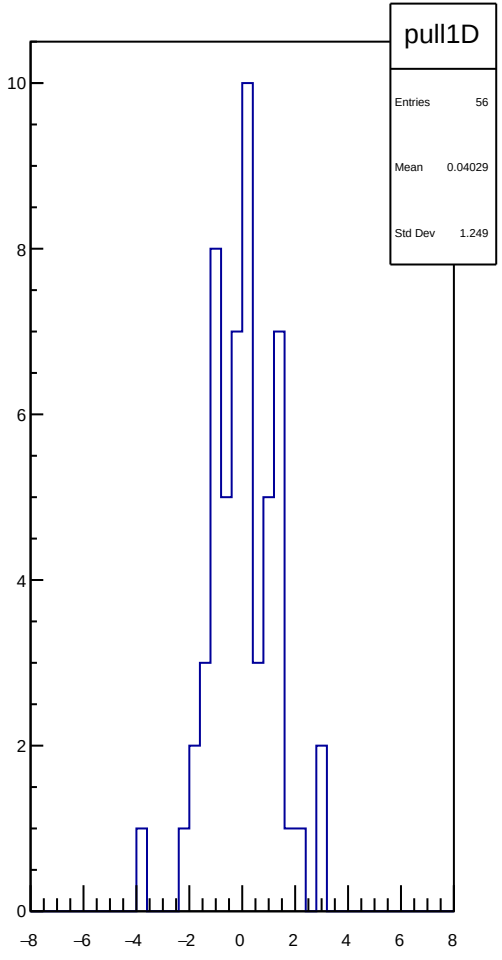

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 109.7 / 55
p0 0.03962 ± 0.005229
pull
Entries 56
Mean 121.6
Std Dev 93.86

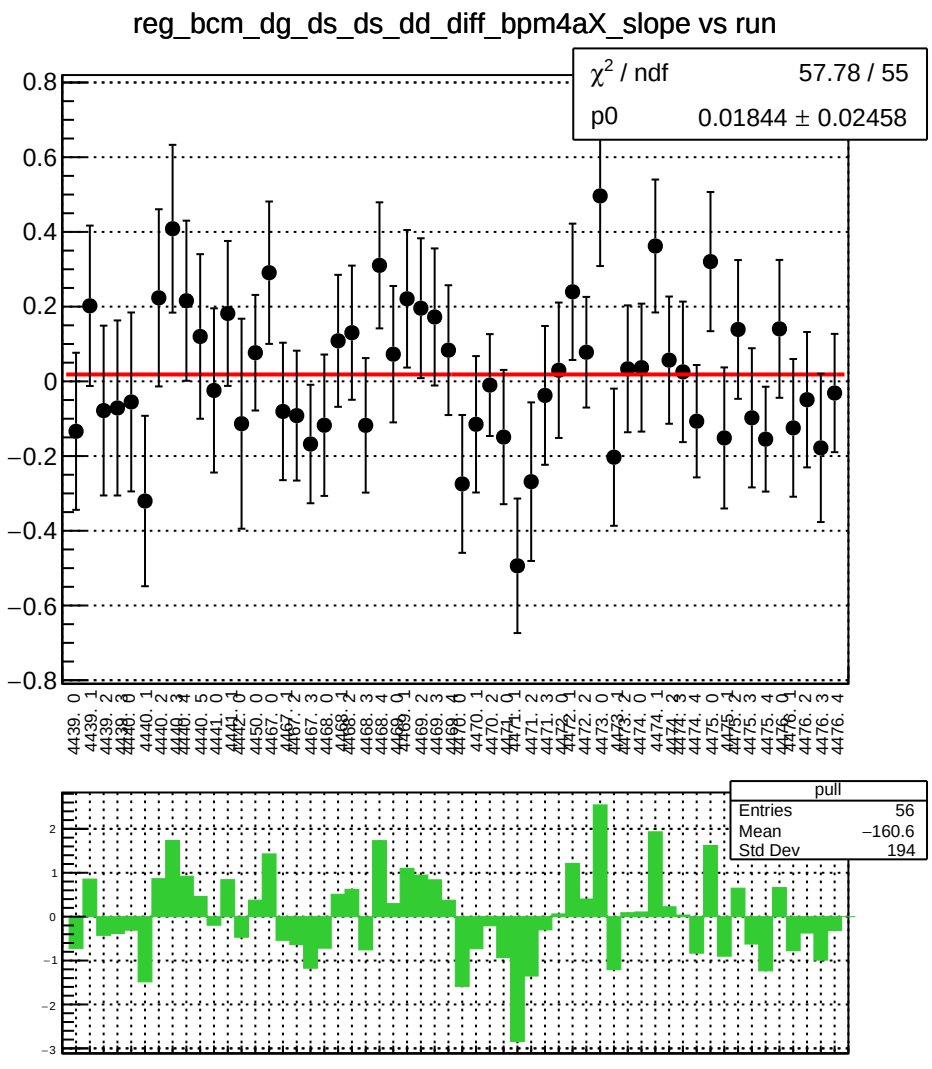

pull1D
Entries 56
Mean 0.1275
Std Dev 1.394

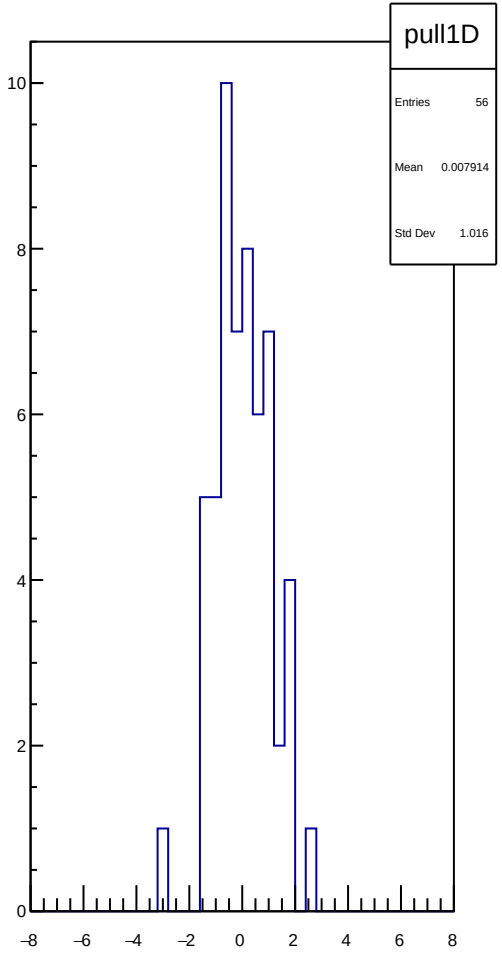

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 151.5 / 55
p0 0.08688 ± 0.0401
pull
Entries 56
Mean 16.39
Std Dev 22.74

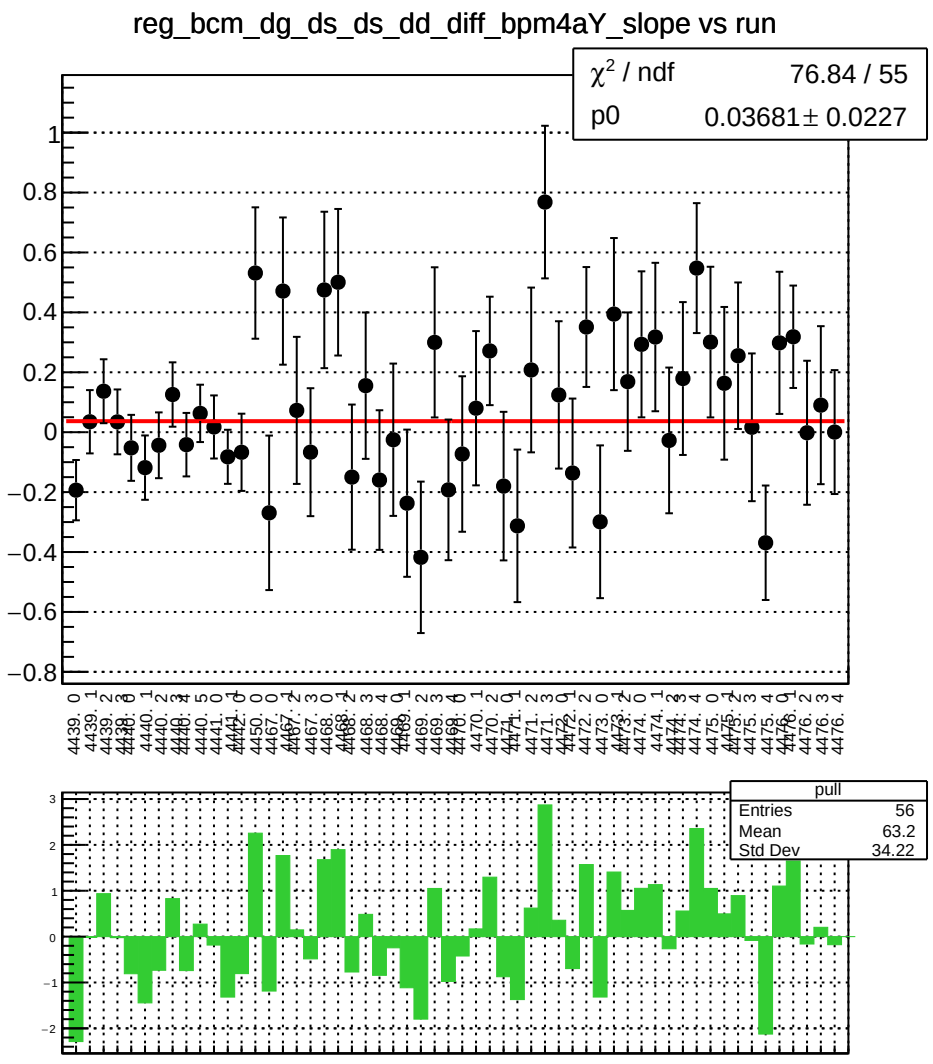

pull1D
Entries 56
Mean −0.0554
Std Dev 1.644

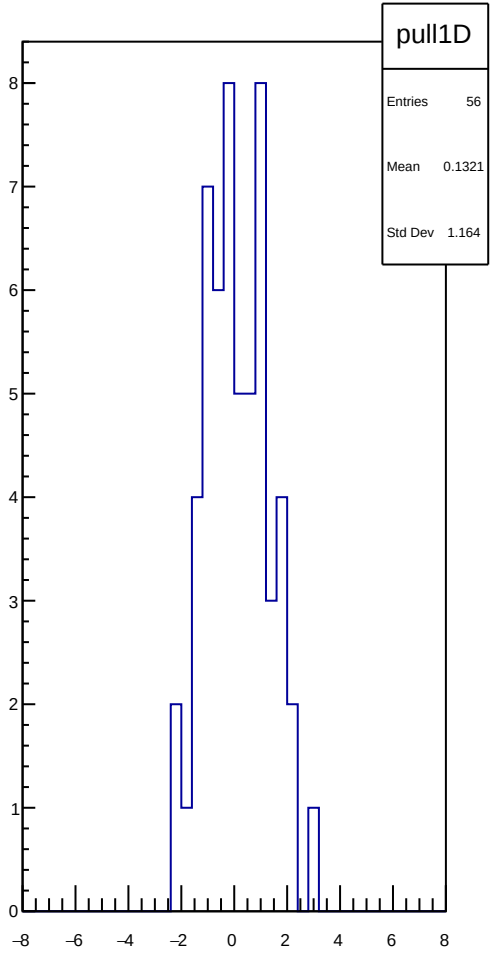

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 87.46 / 55
p0 0.02765 ± 0.00678
pull
Entries 56
Mean 151.8
Std Dev 120.6

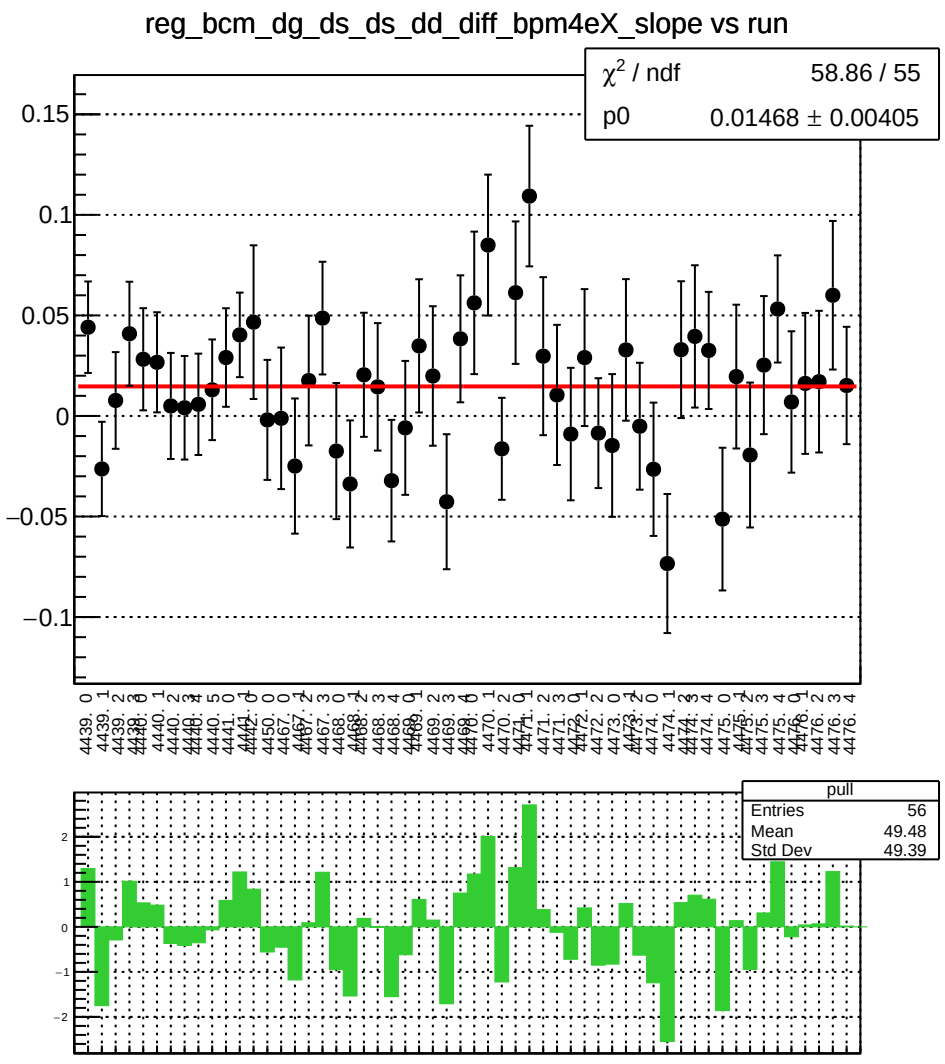

pull1D
Entries 56
Mean 0.04029
Std Dev 1.249

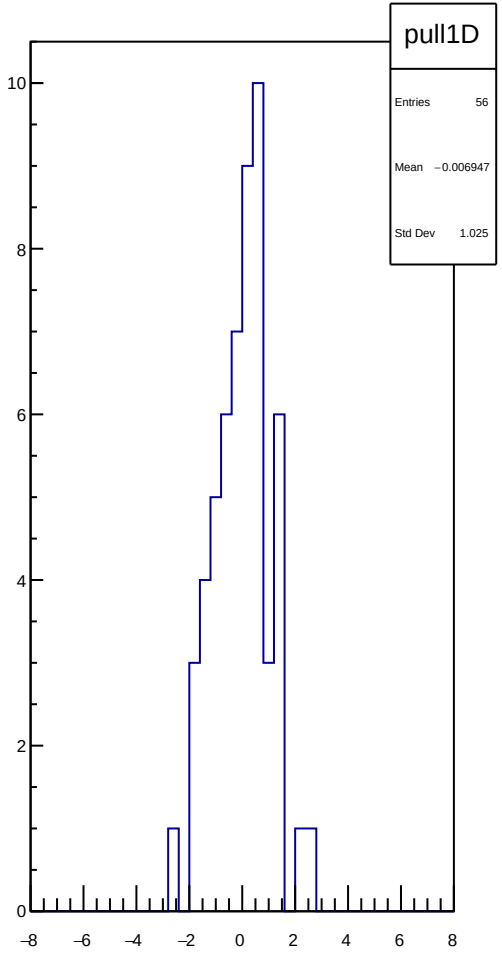

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 57.78 / 55
p0 0.01844 ± 0.02458
pull
Entries 56
Mean −160.6
Std Dev 194

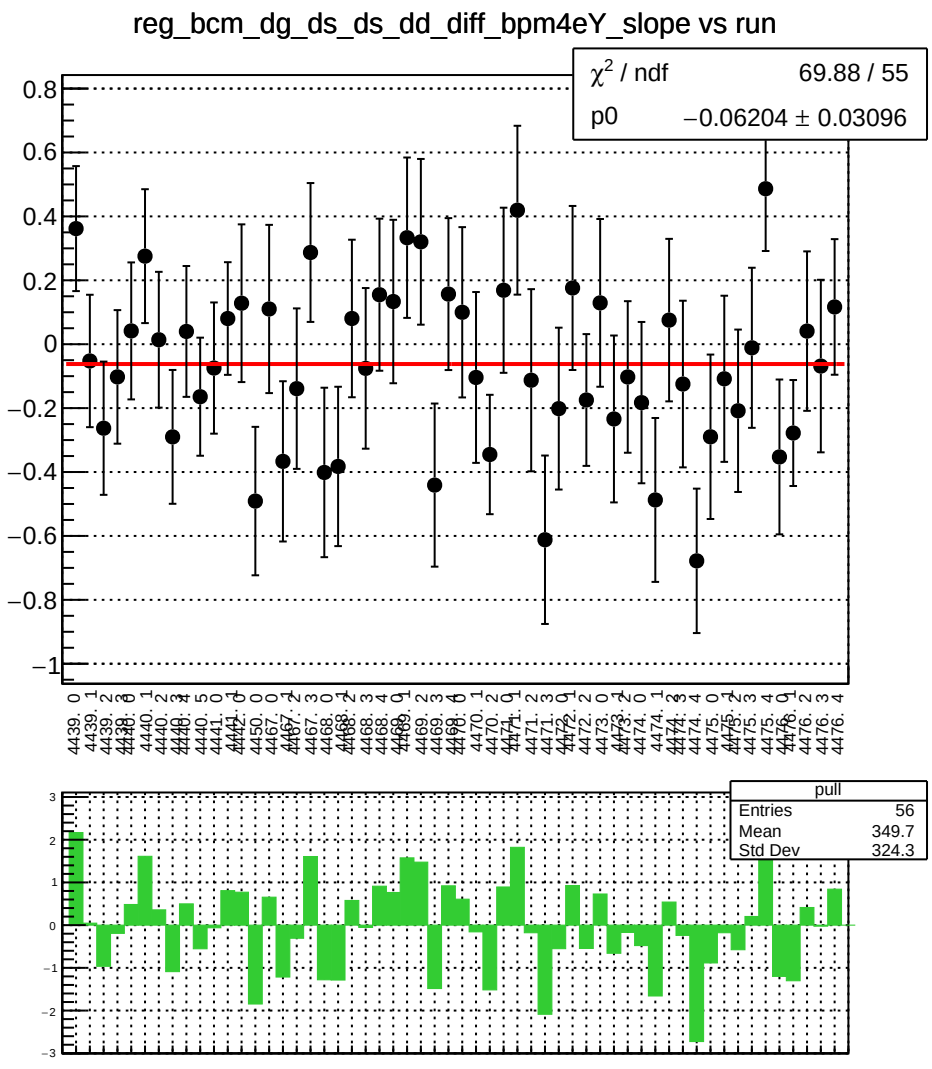

pull1D
Entries 56
Mean 0.007914
Std Dev 1.016

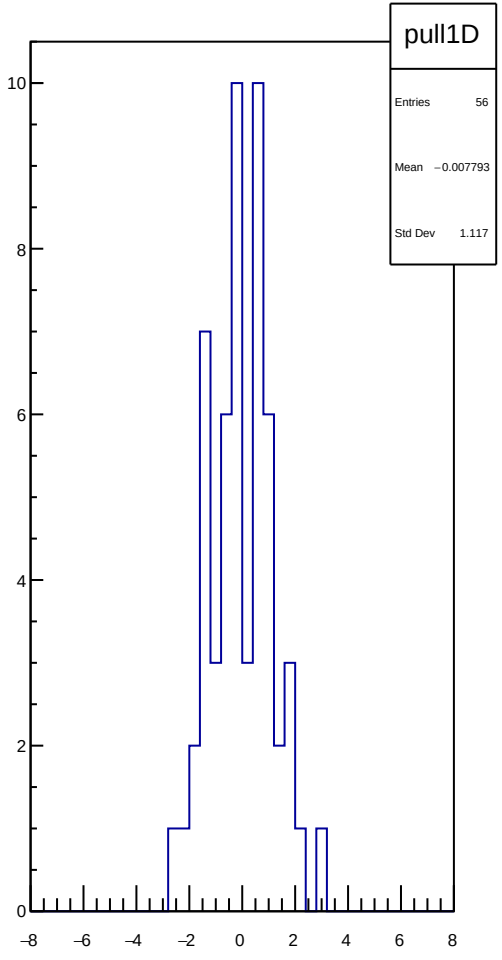

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.84 / 55
p0 0.03681 ± 0.0227
pull
Entries 56
Mean 63.2
Std Dev 34.22

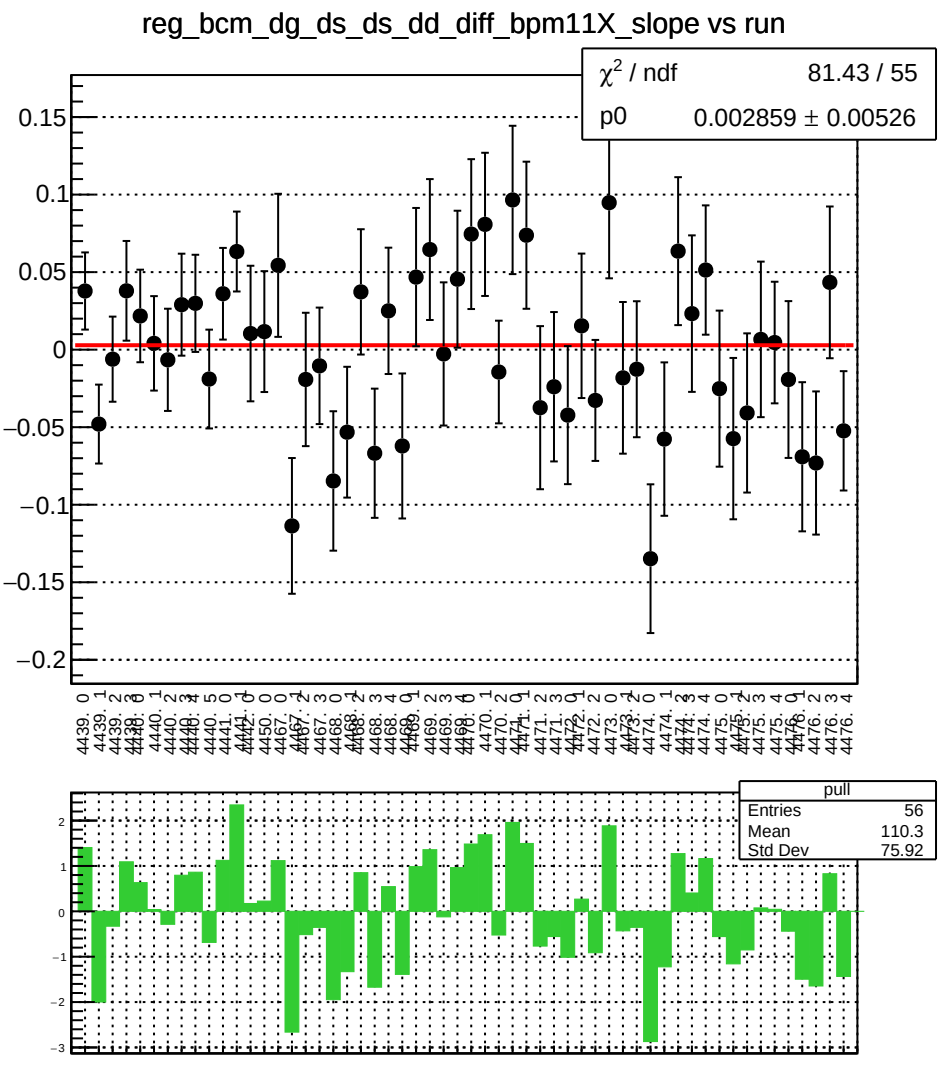

pull1D
Entries 56
Mean 0.1321
Std Dev 1.164

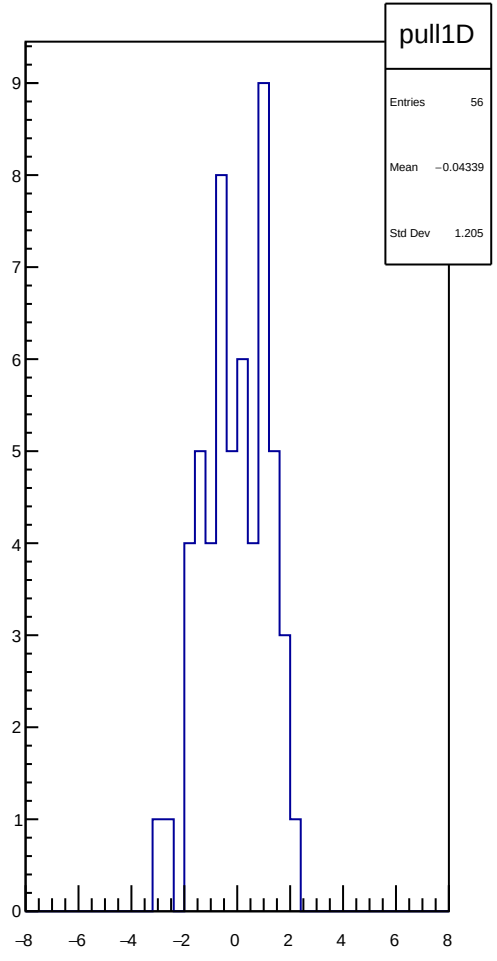

reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.86 / 55
p0 0.01468 ± 0.00405
pull
Entries 56
Mean 49.48
Std Dev 49.39


pull1D
Entries 56
Mean −0.006947
Std Dev 1.025


reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 69.88 / 55
p0 −0.06204 ± 0.03096
pull
Entries 56
Mean 349.7
Std Dev 324.3


pull1D
Entries 56
Mean −0.007793
Std Dev 1.117


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 81.43 / 55
p0 0.002859 ± 0.00526
pull
Entries 56
Mean 110.3
Std Dev 75.92


pull1D
Entries 56
Mean −0.04339
Std Dev 1.205