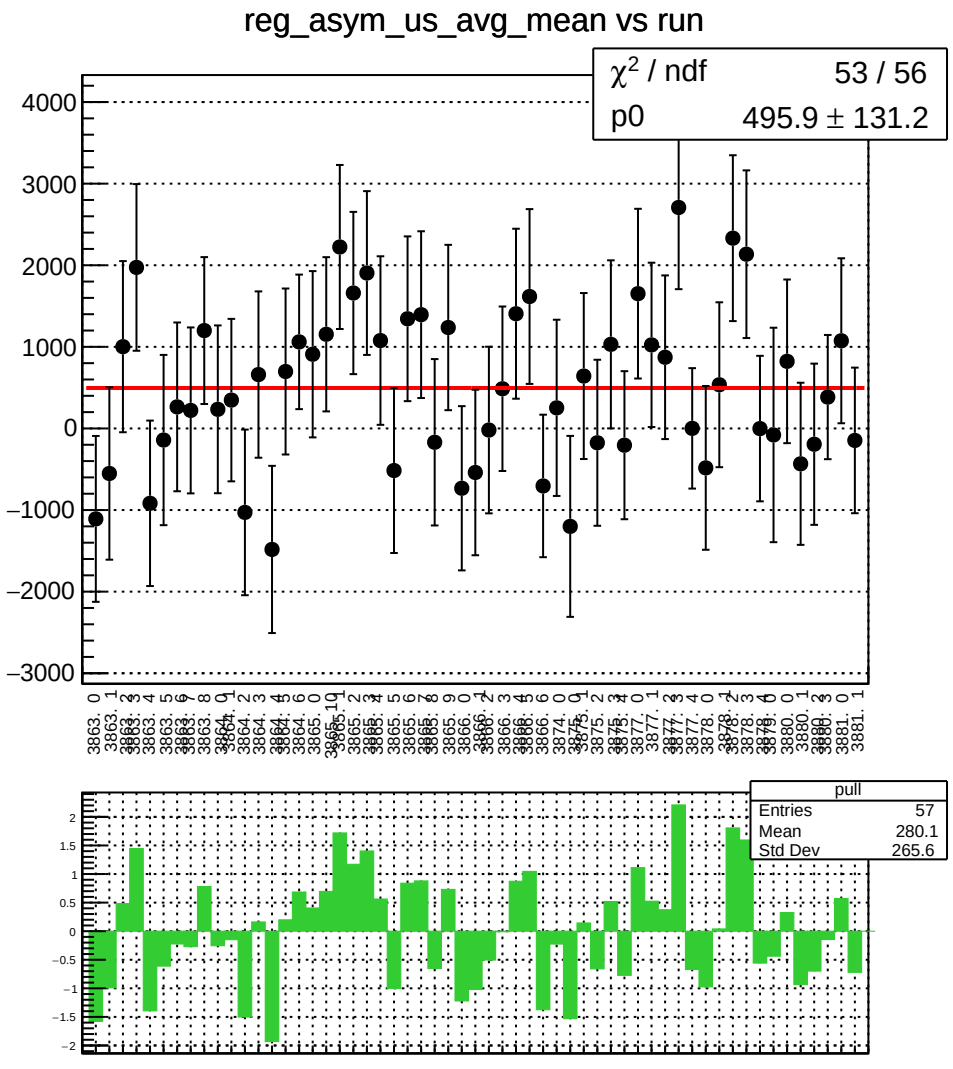
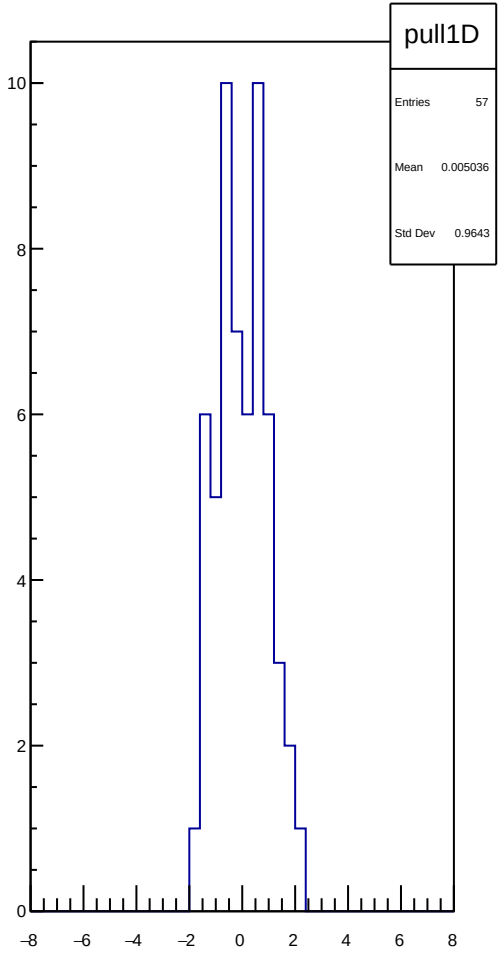
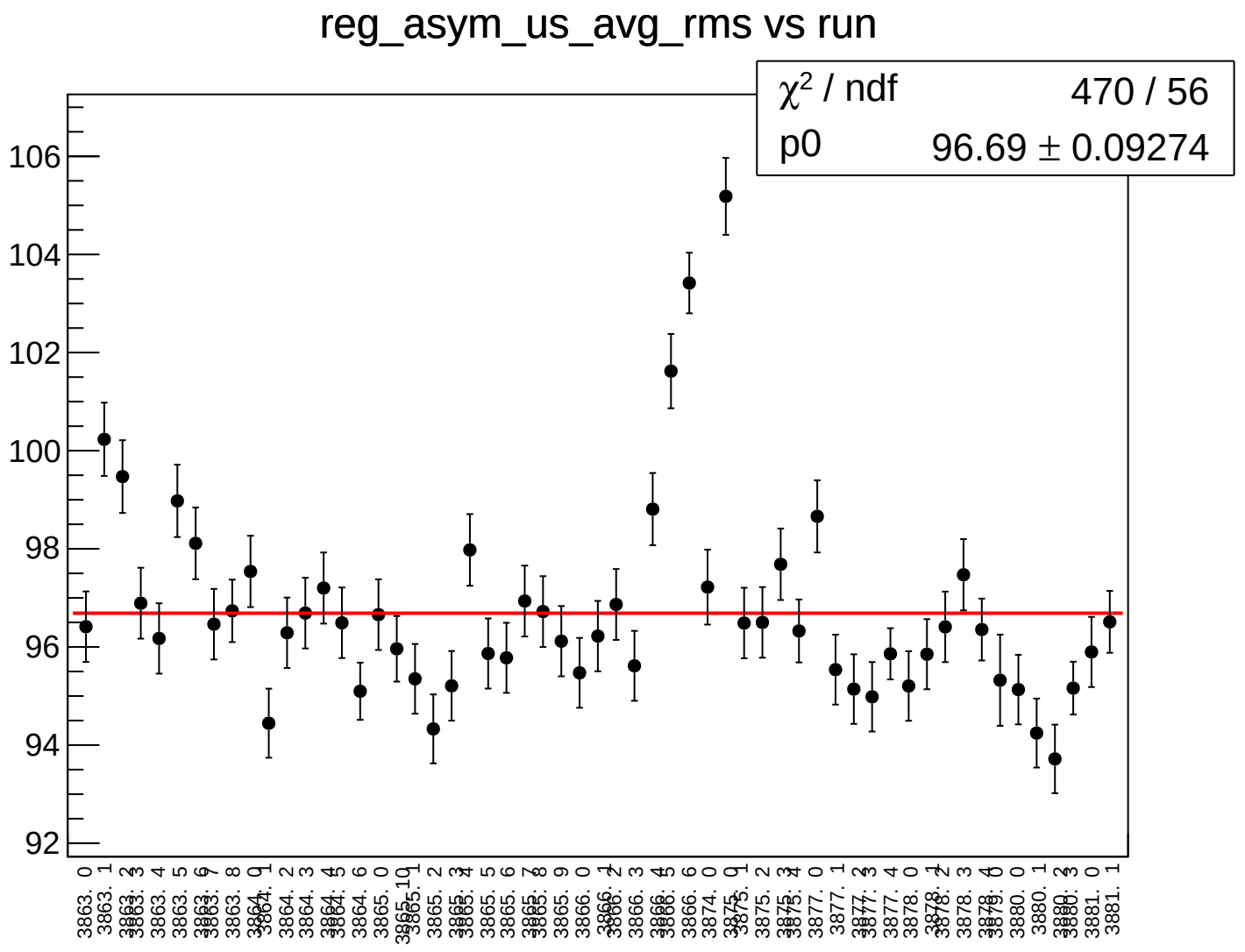
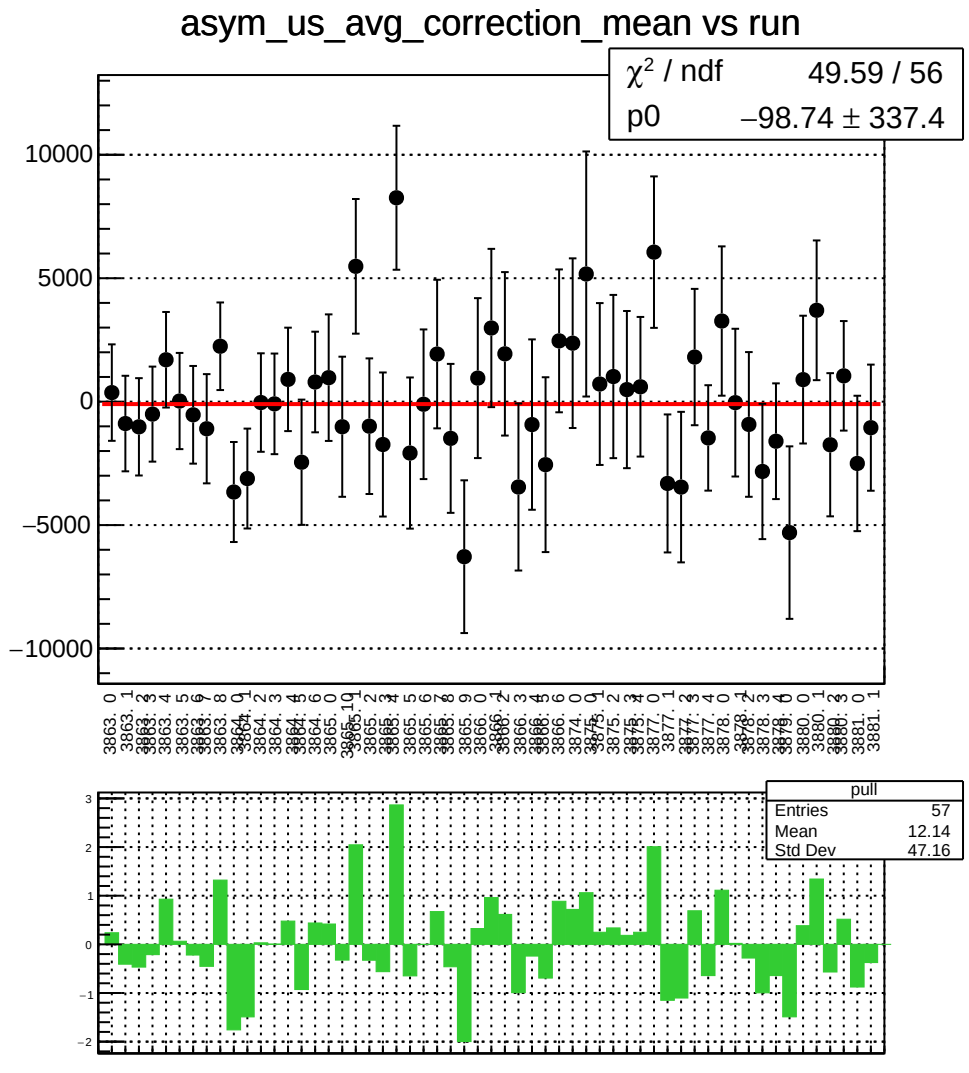
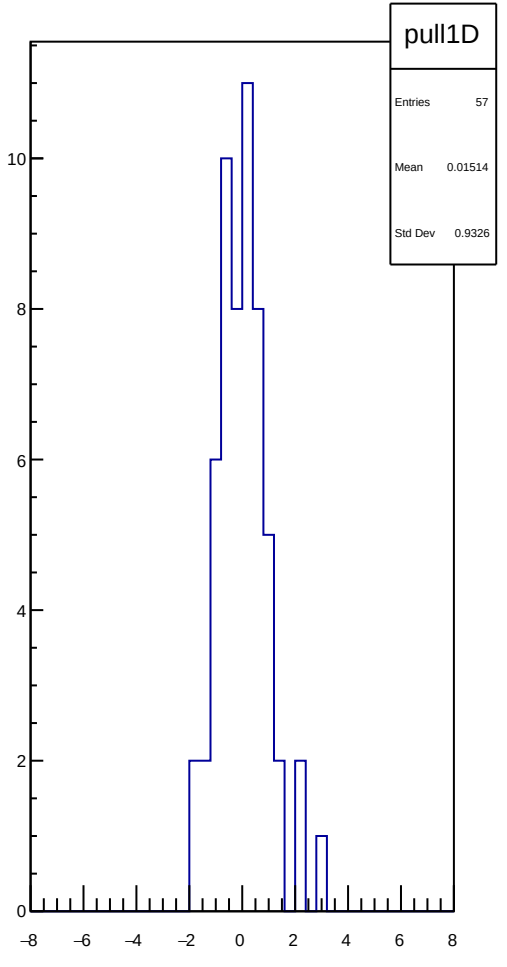
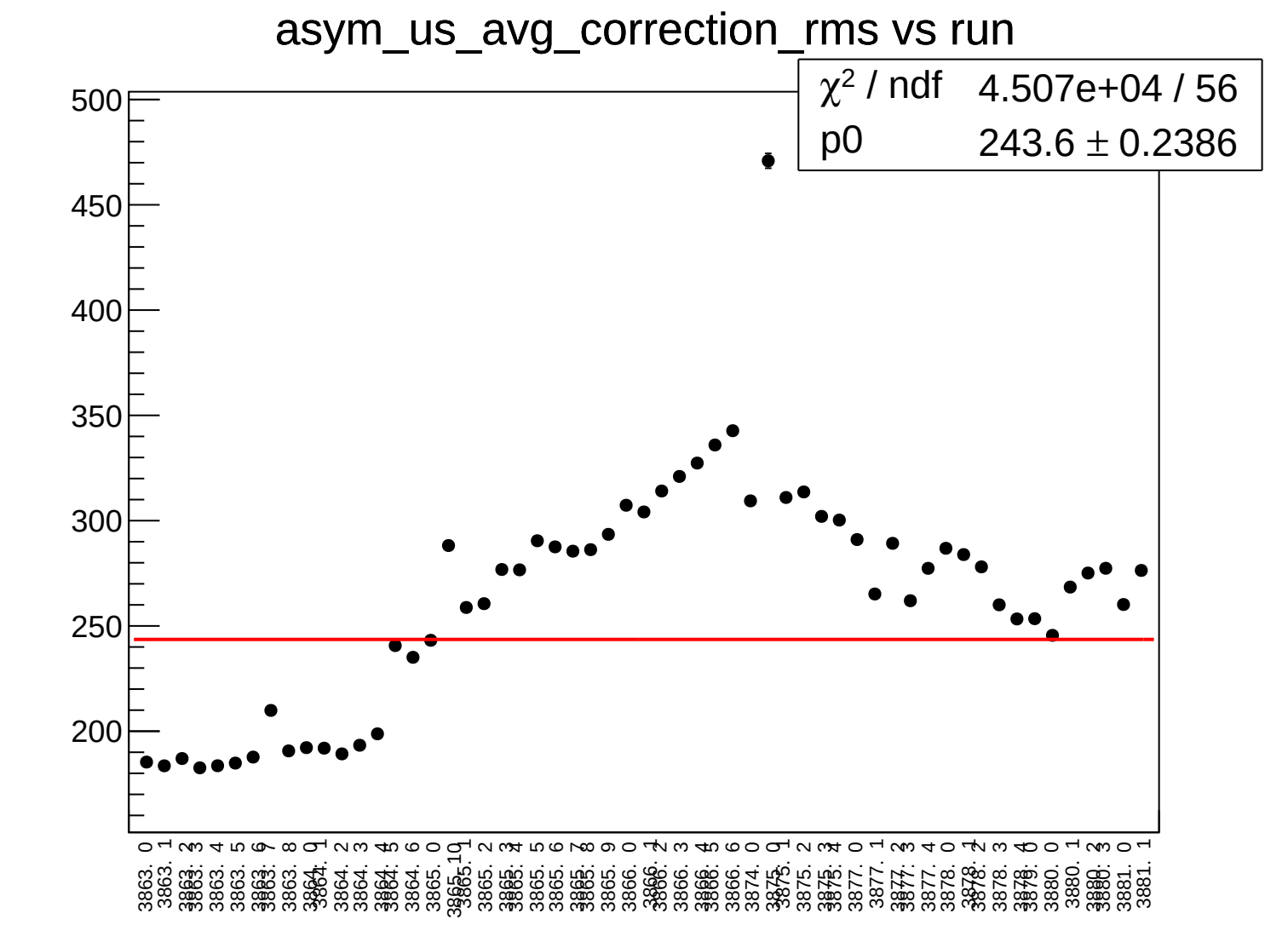

reg_asym_us_avg_mean vs run
χ² / ndf 53 / 56
p0 495.9 ± 131.2
pull
Entries 57
Mean 280.1
Std Dev 265.6

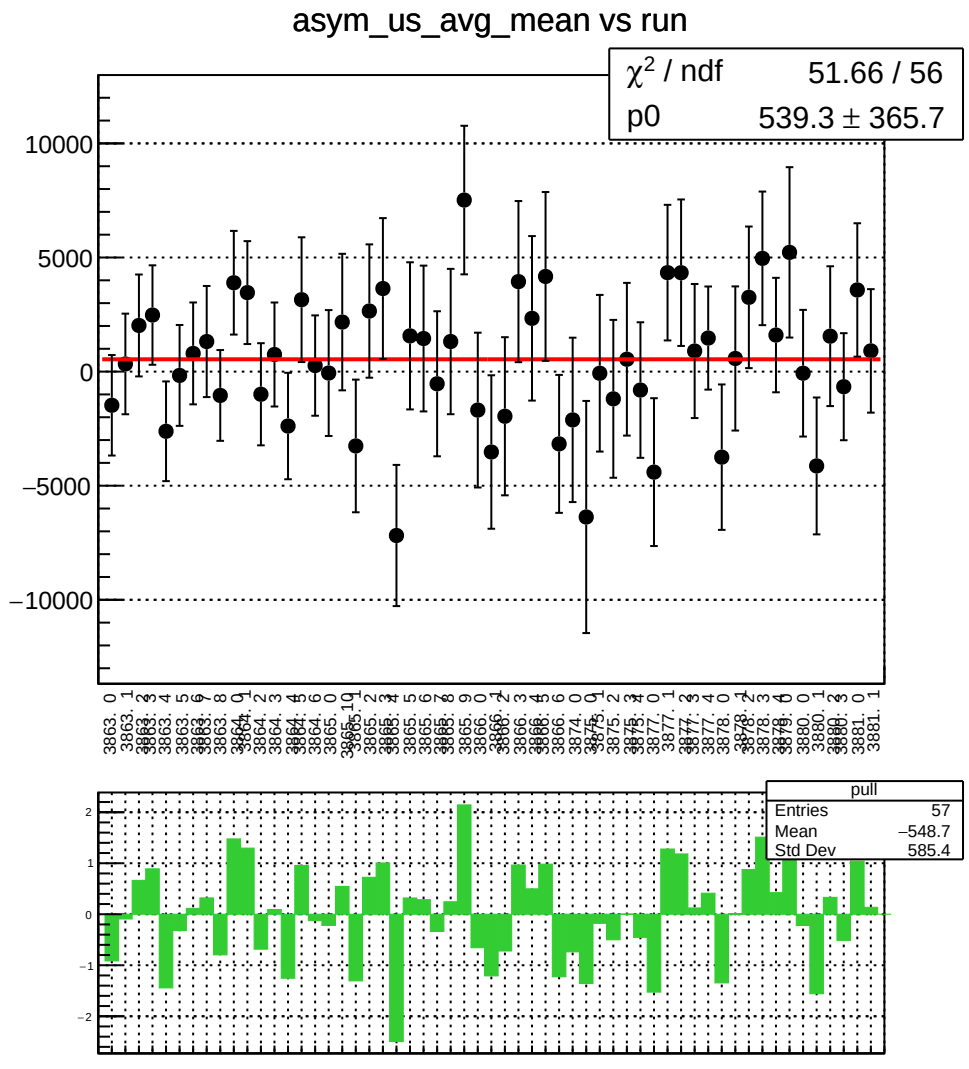

pull1D
Entries 57
Mean 0.005036
Std Dev 0.9643

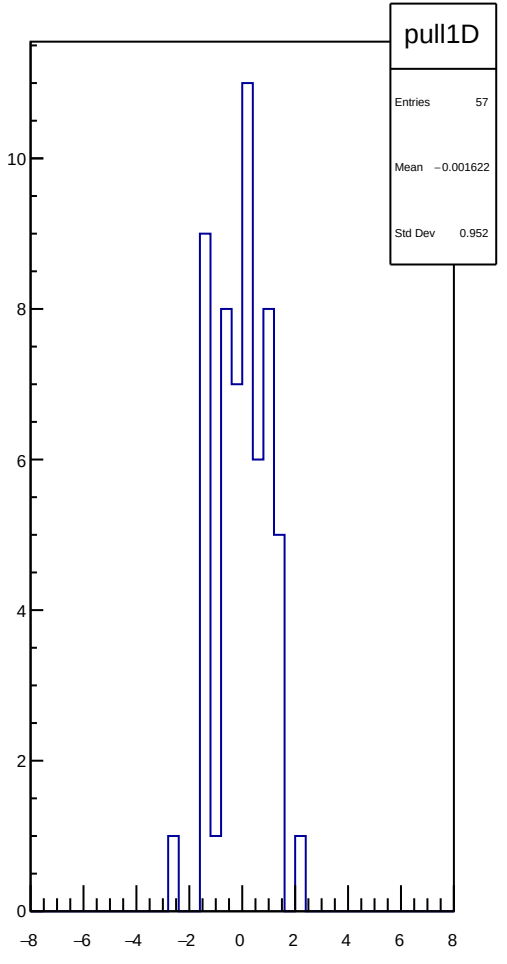

reg_asym_us_avg_rms vs run
χ^2 / ndf 470 / 56
p0 96.69 ± 0.09274
106
104
102
100
98
96
94
92

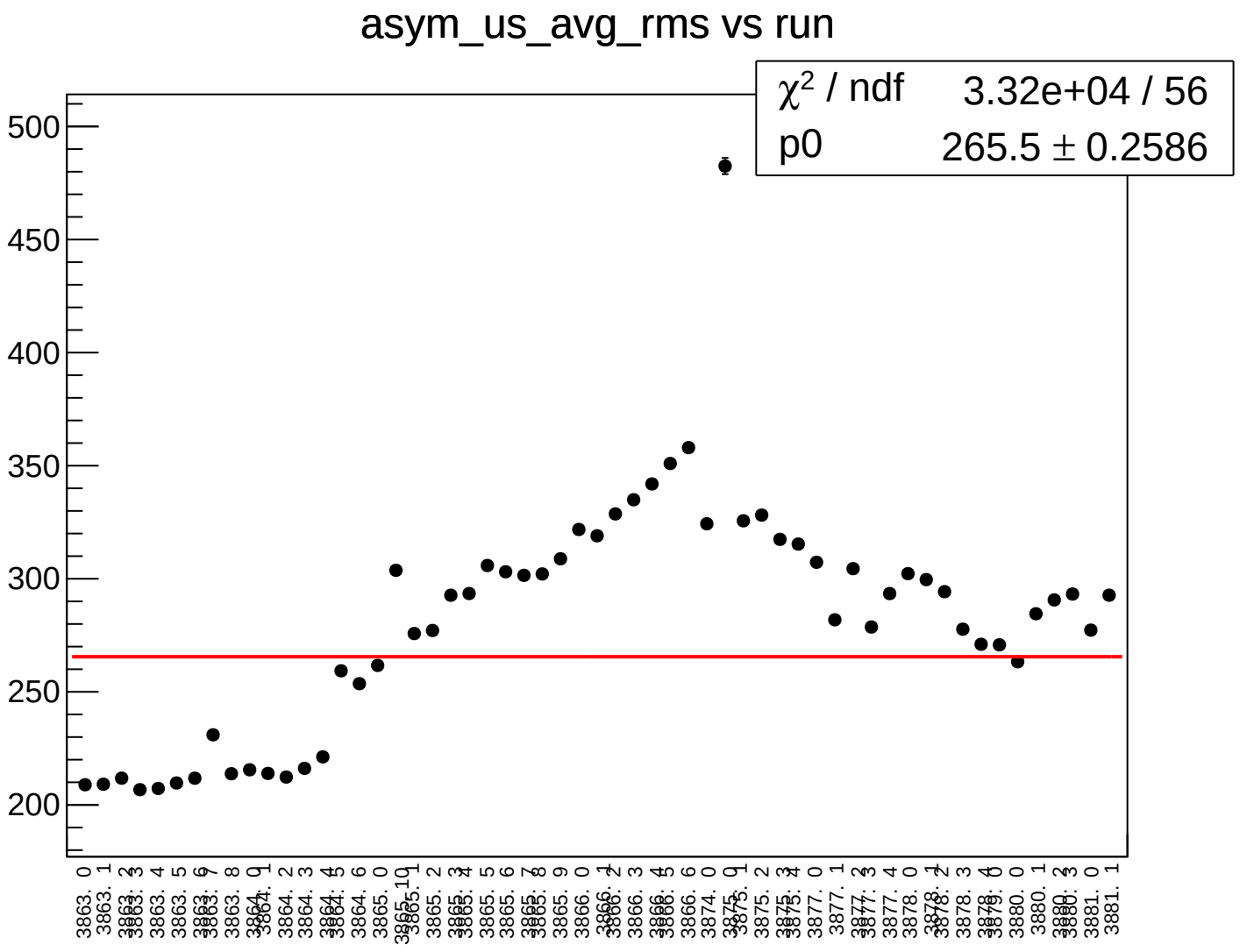

asym_us_avg_correction_mean vs run
χ² / ndf 49.59 / 56
p0 −98.74 ± 337.4
10000
5000
0
−5000
−10000
pull
Entries 57
Mean 12.14
Std Dev 47.16
3
2
1
0
−1
−2

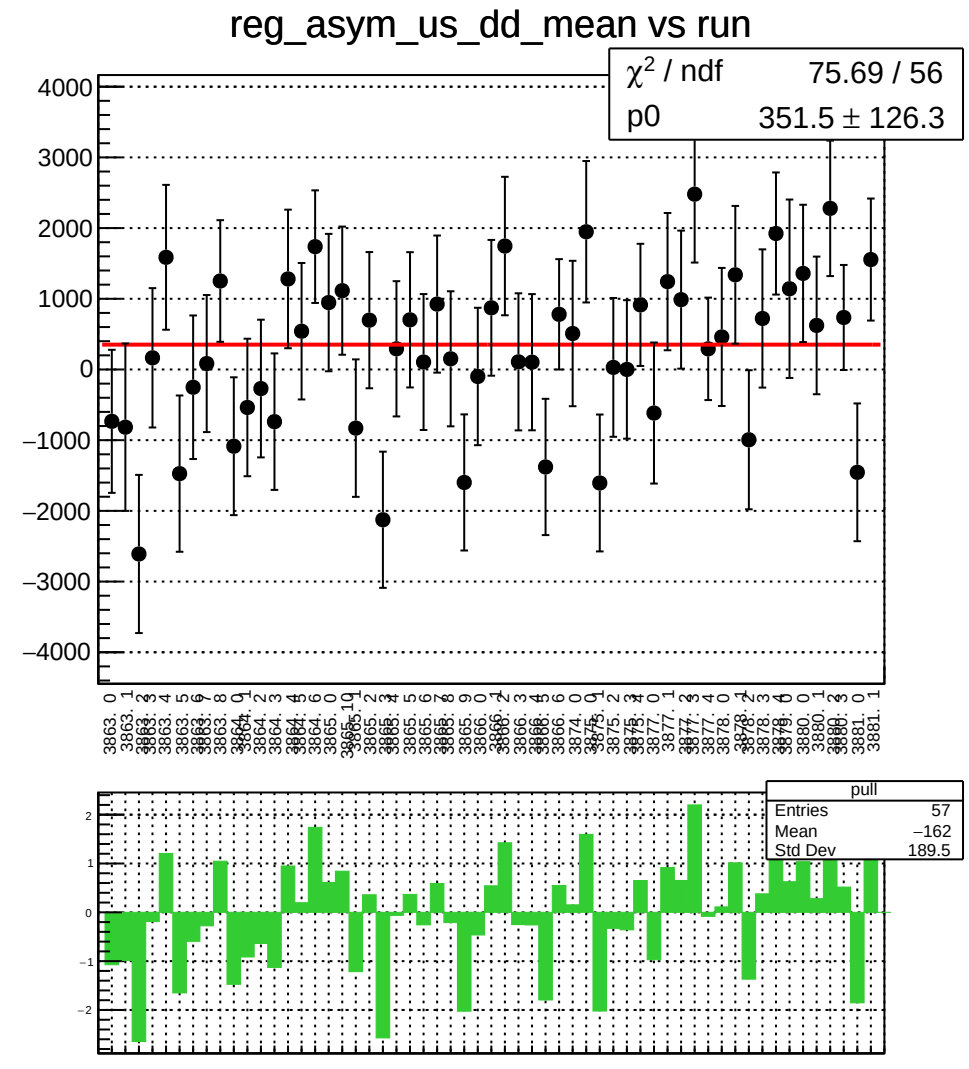

pull1D
Entries 57
Mean 0.01514
Std Dev 0.9326
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

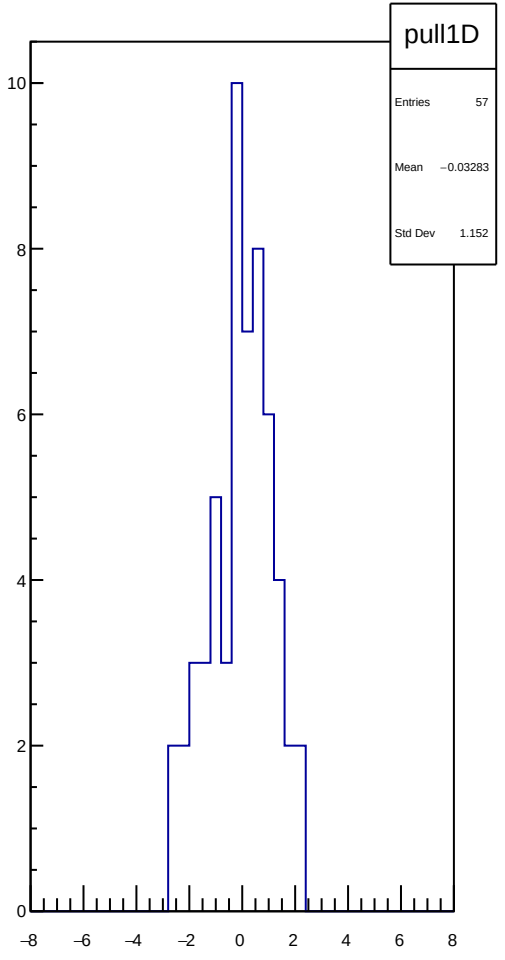

asym_us_avg_correction_rms vs run
χ² / ndf 4.507e+04 / 56
p0 243.6 ± 0.2386
500
450
400
350
300
250
200

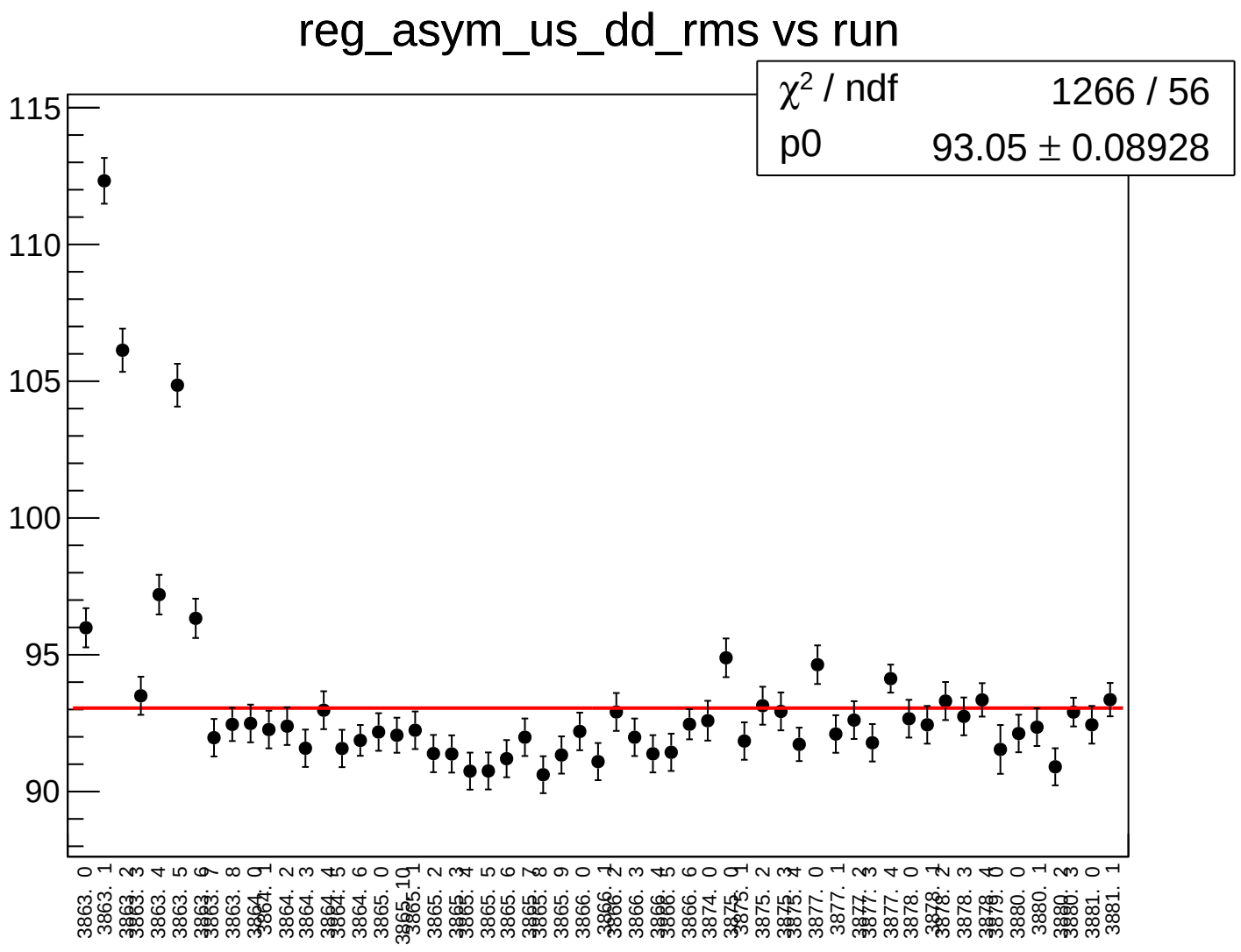

asym_us_avg_mean vs run
χ² / ndf 51.66 / 56
p0 539.3 ± 365.7
10000
5000
0
−5000
−10000
pull
Entries 57
Mean −548.7
Std Dev 585.4
2
1
0
−1
−2

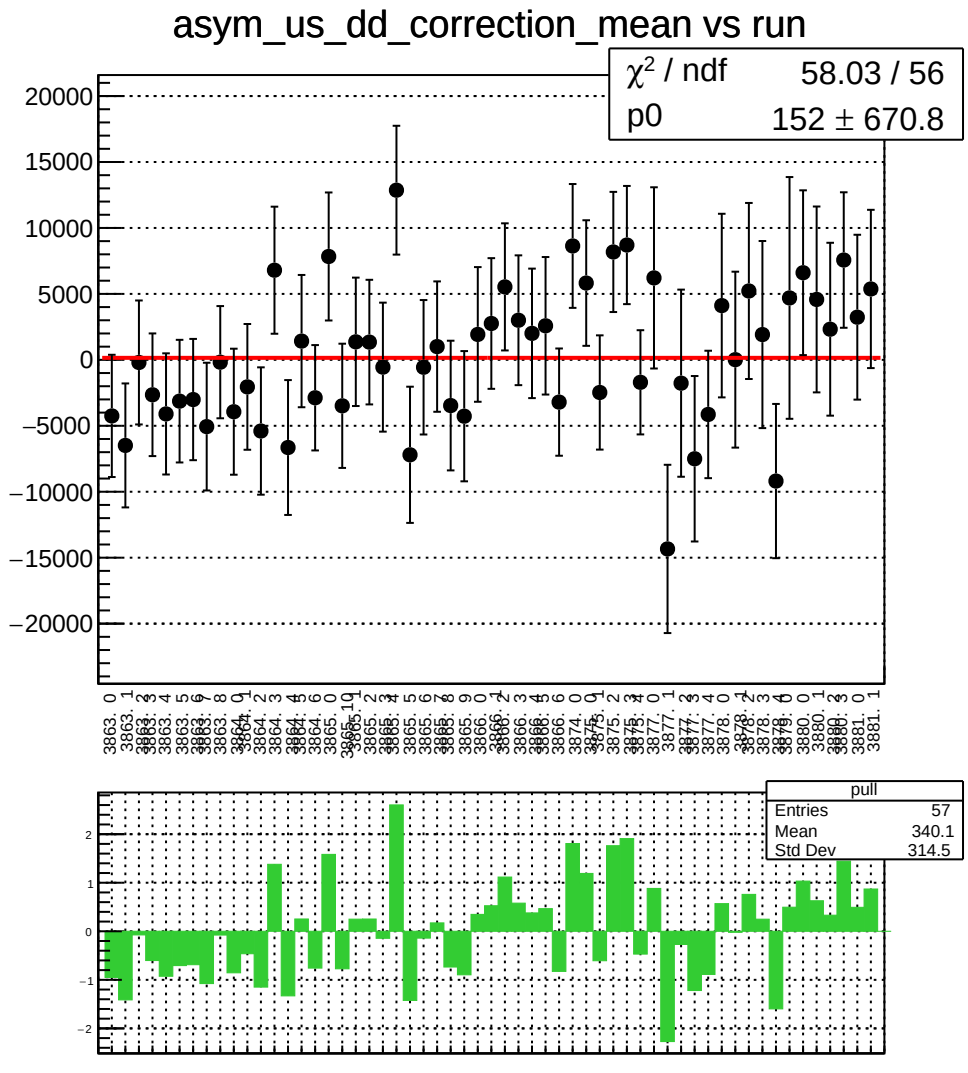

pull1D
Entries 57
Mean −0.001622
Std Dev 0.952
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

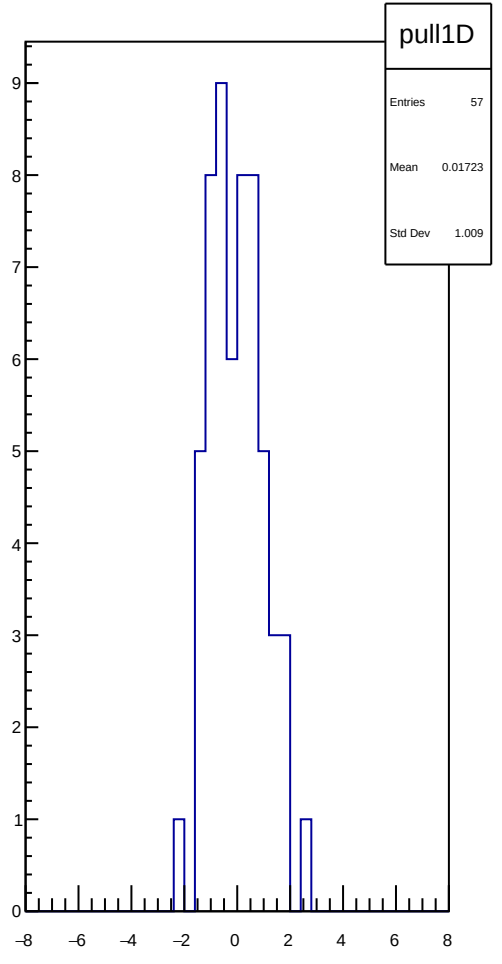

asym_us_avg_rms vs run
χ² / ndf 3.32e+04 / 56
p0 265.5 ± 0.2586
500
450
400
350
300
250
200

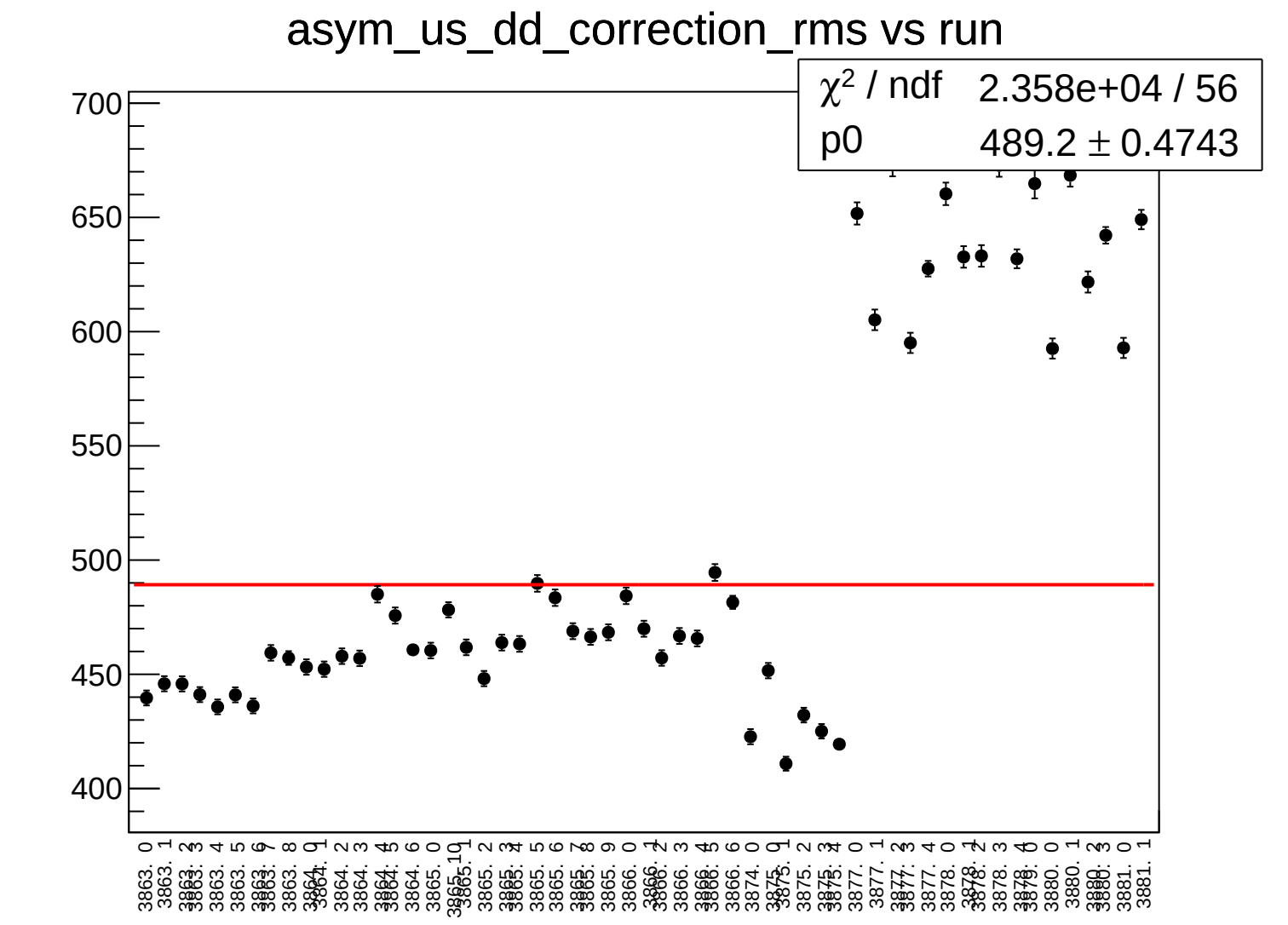

reg_asym_us_dd_mean vs run
χ^2 / ndf 75.69 / 56
p0 351.5 ± 126.3
pull
Entries 57
Mean −162
Std Dev 189.5

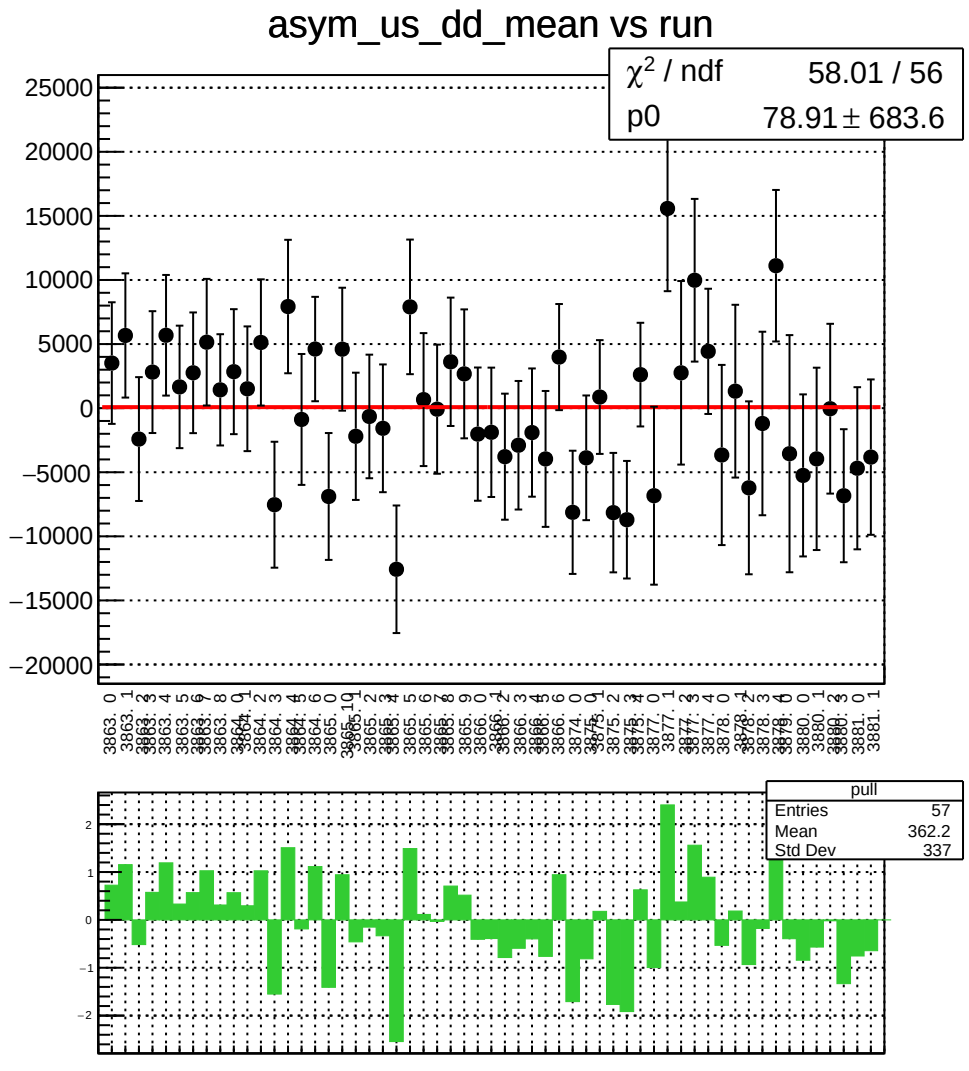

pull1D
Entries 57
Mean −0.03283
Std Dev 1.152

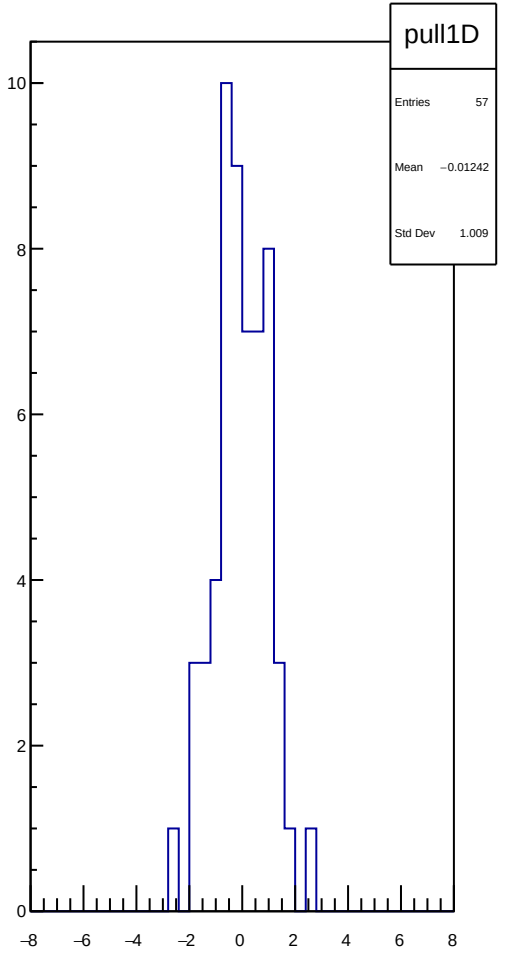

reg_asym_us_dd_rms vs run
χ² / ndf 1266 / 56
p0 93.05 ± 0.08928
115
110
105
100
95
90

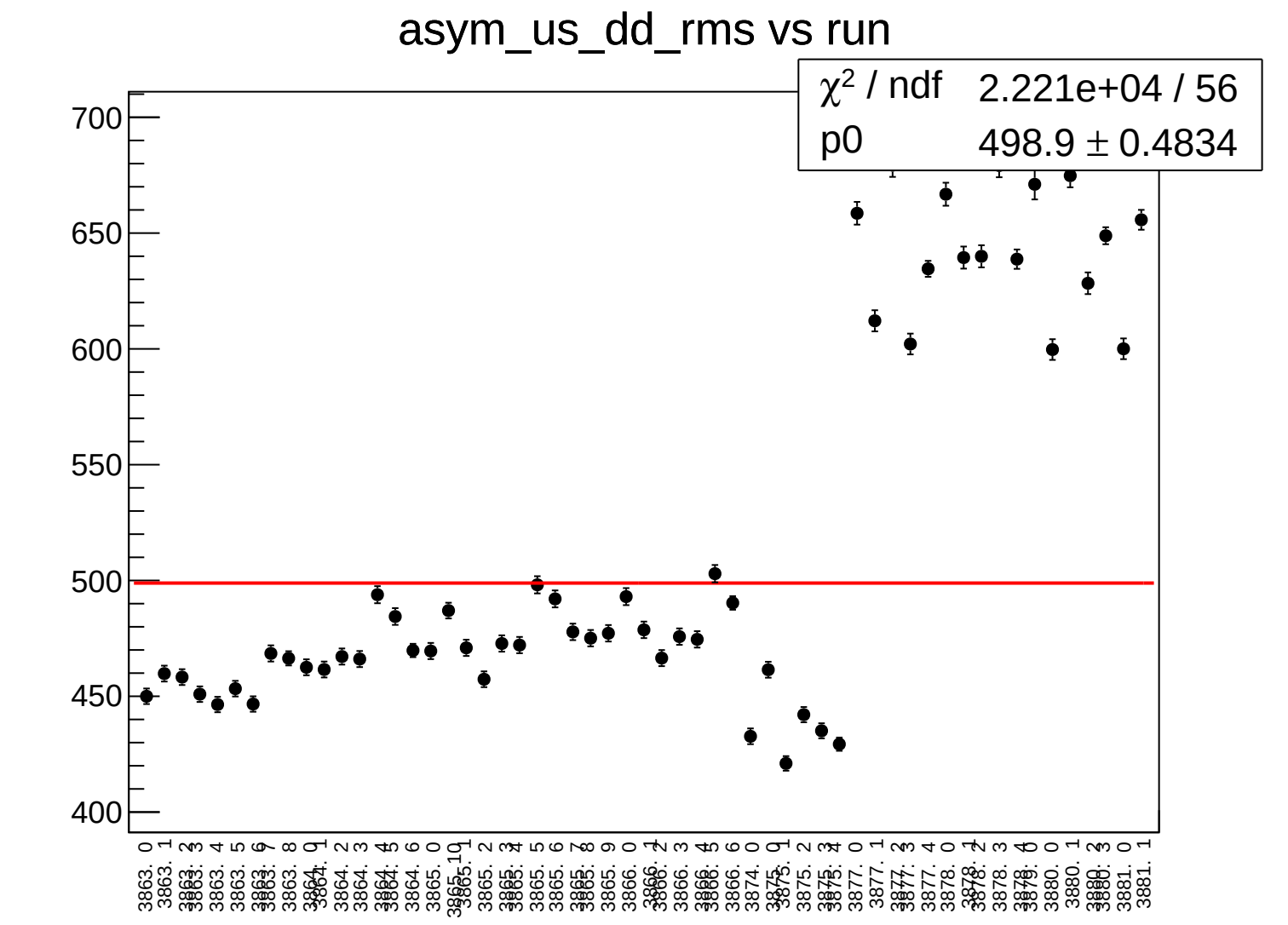

asym_us_dd_correction_mean vs run
χ² / ndf 58.03 / 56
p0 152 ± 670.8
pull
Entries 57
Mean 340.1
Std Dev 314.5

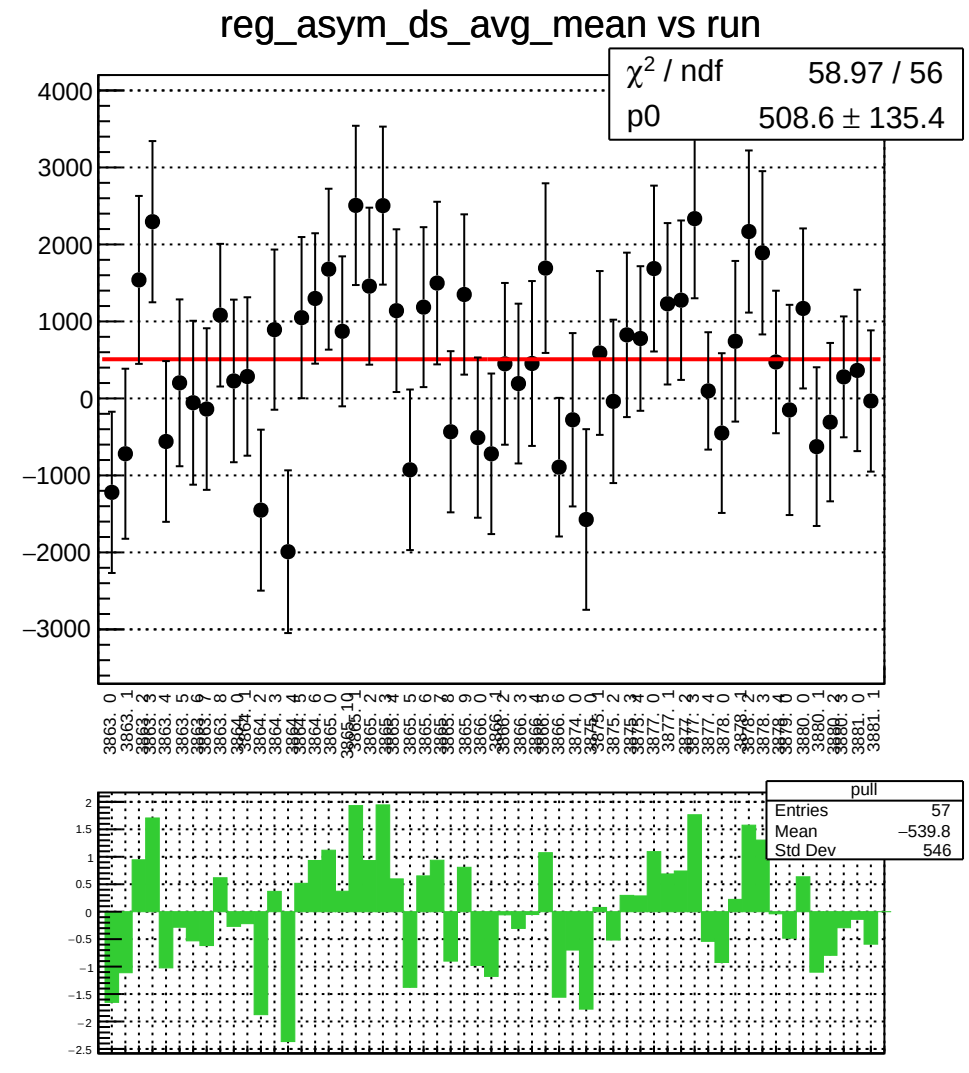

pull1D
Entries 57
Mean 0.01723
Std Dev 1.009

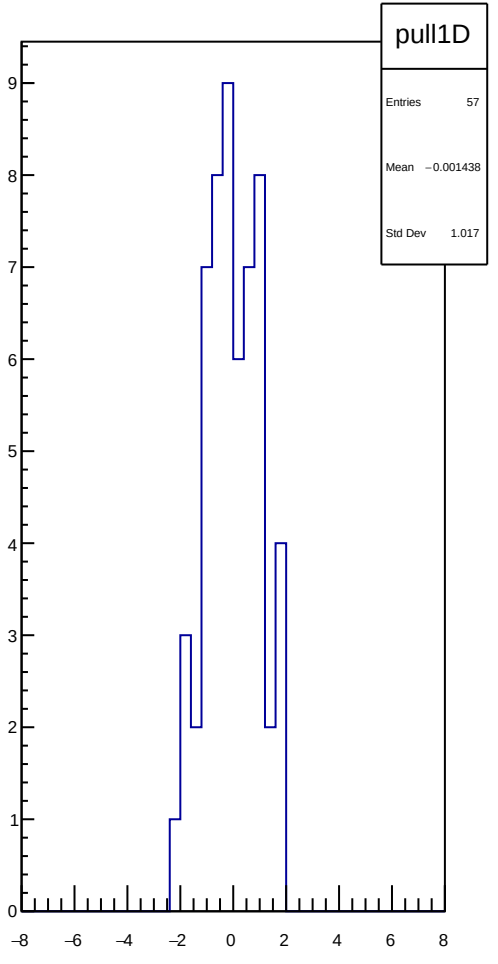

asym_us_dd_correction_rms vs run
χ² / ndf 2.358e+04 / 56
p0 489.2 ± 0.4743
700
650
600
550
500
450
400

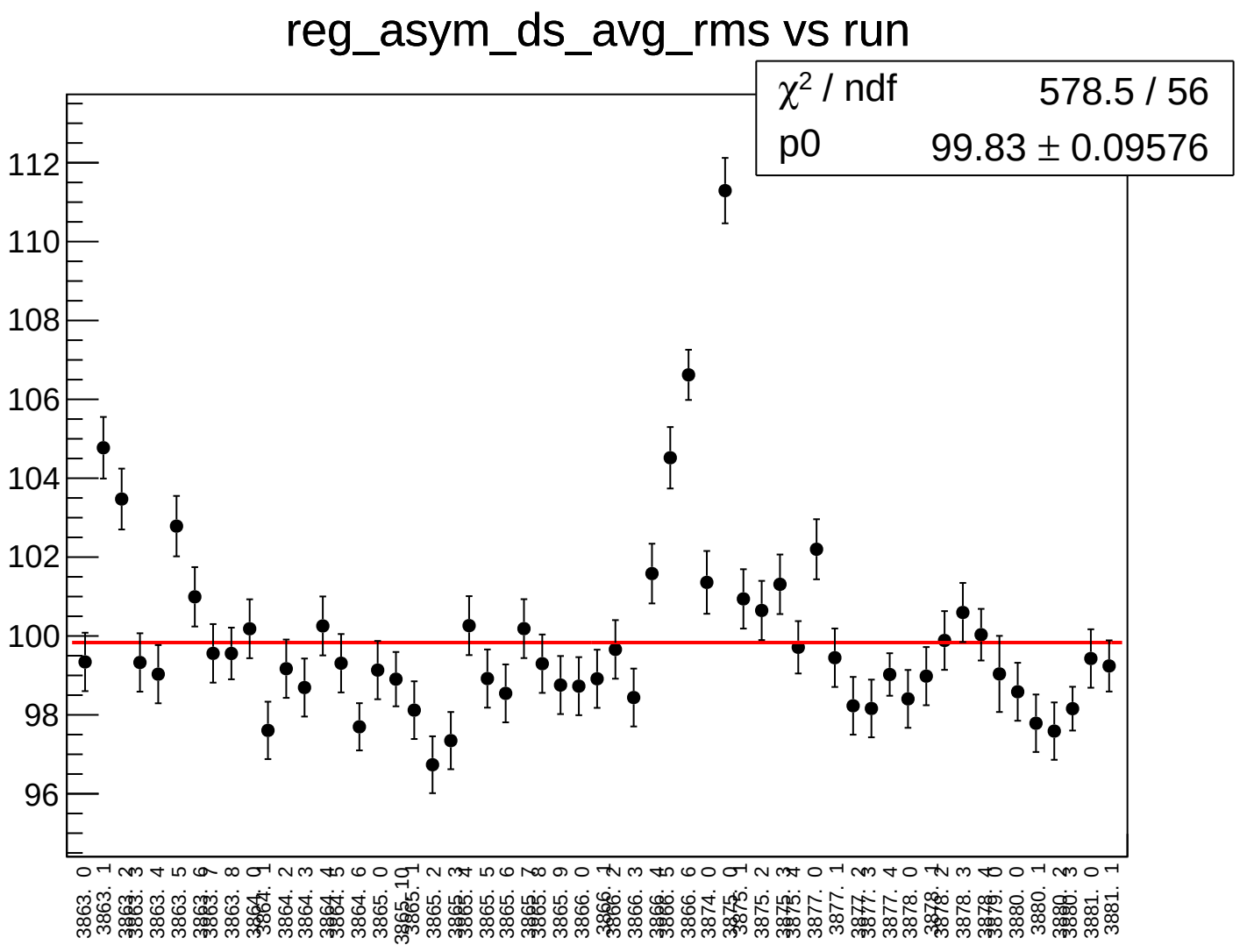

asym_us_dd_mean vs run
χ² / ndf 58.01 / 56
p0 78.91 ± 683.6
pull
Entries 57
Mean 362.2
Std Dev 337

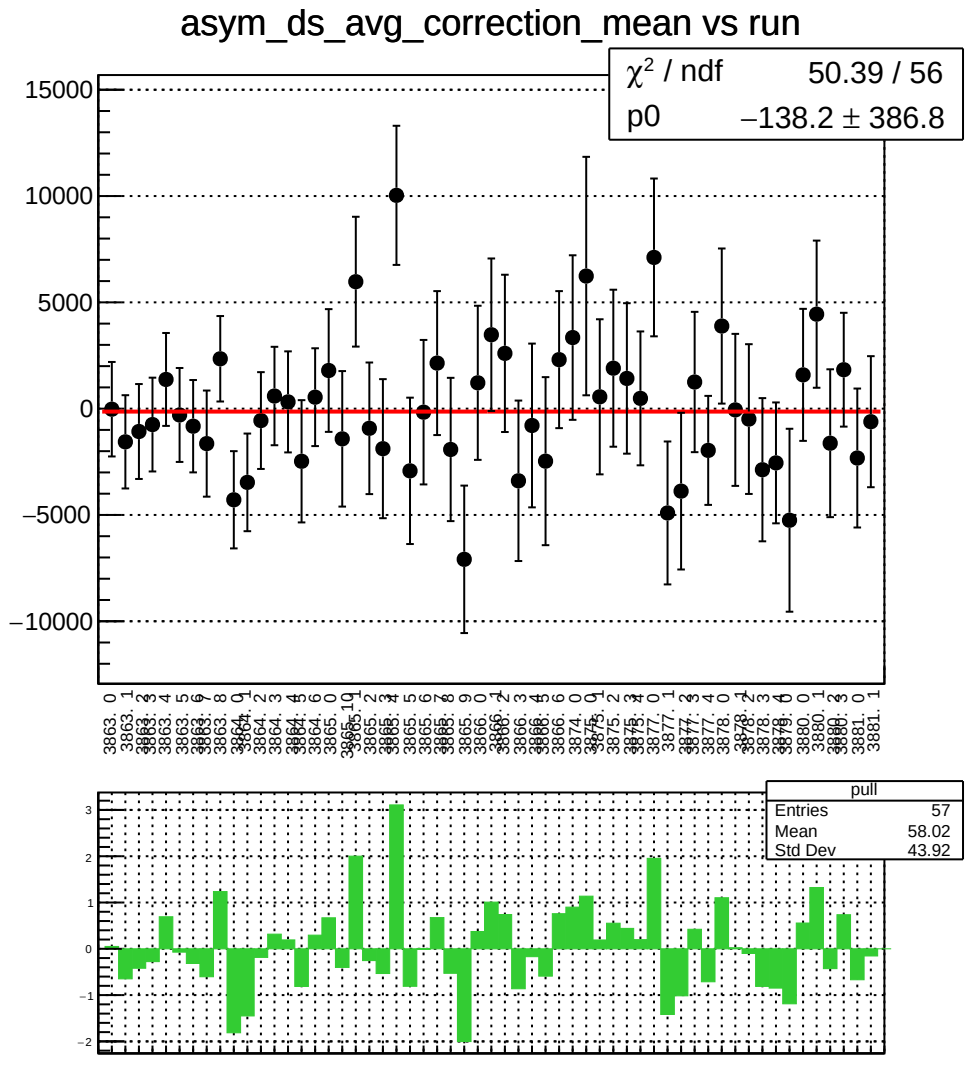

pull1D
Entries 57
Mean −0.01242
Std Dev 1.009

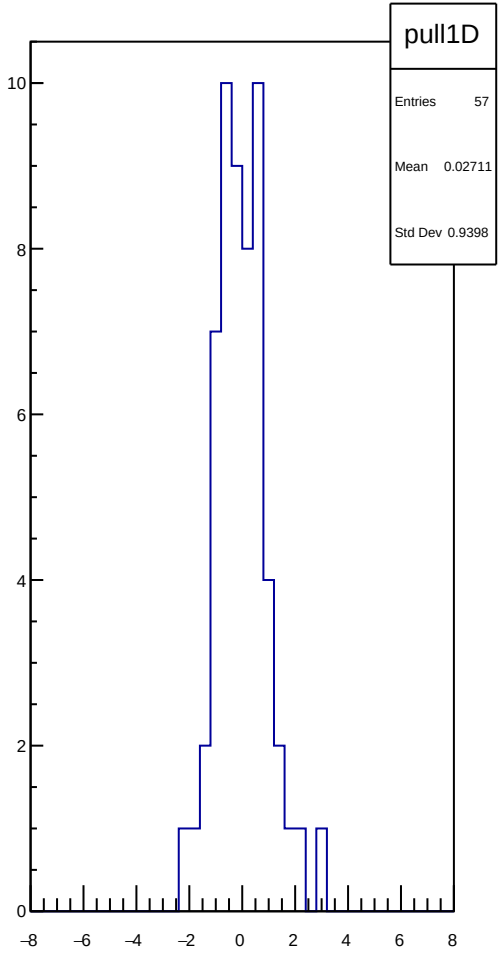

asym_us_dd_rms vs run
χ² / ndf 2.221e+04 / 56
p0 498.9 ± 0.4834
700
650
600
550
500
450
400
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

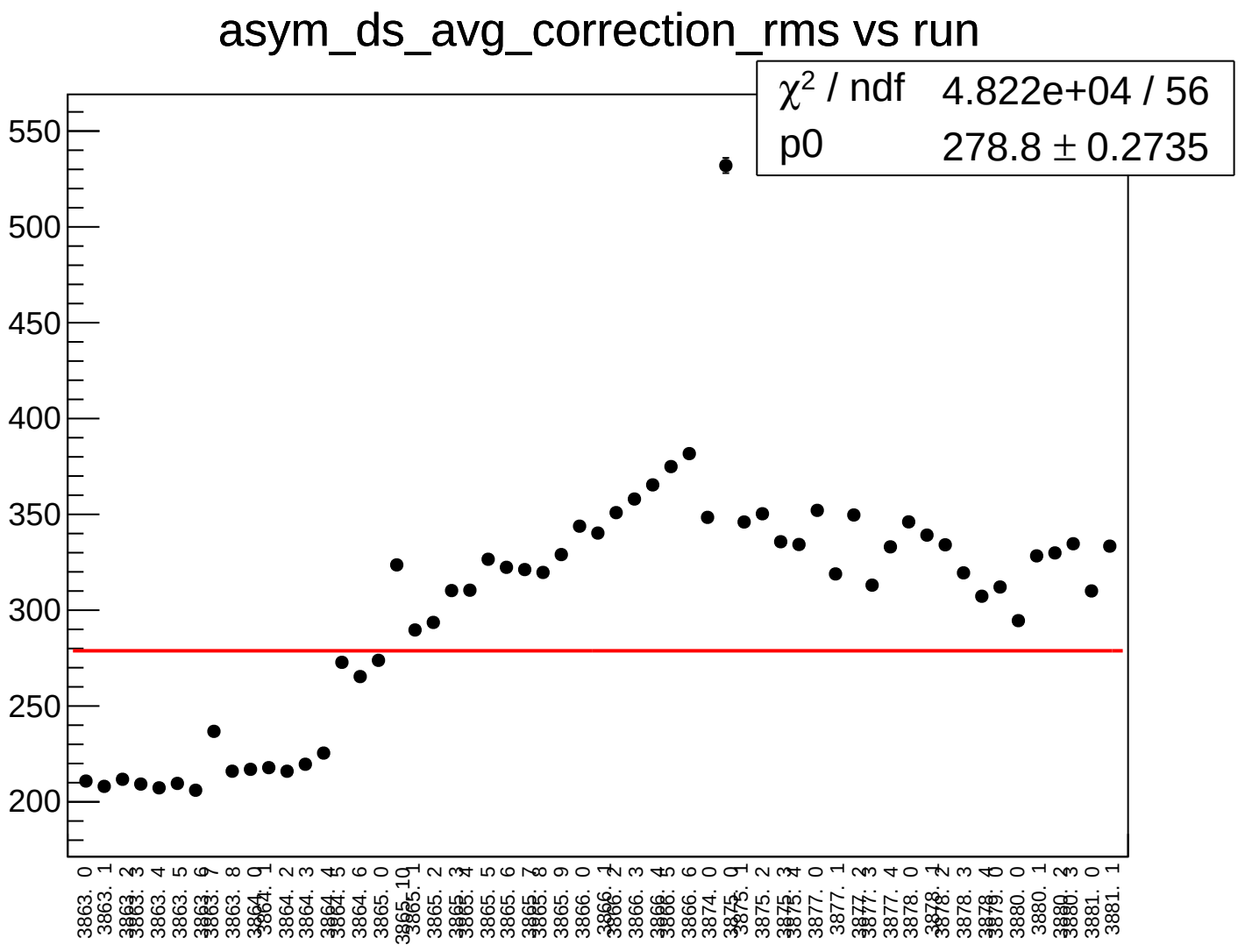

reg_asym_ds_avg_mean vs run
χ² / ndf 58.97 / 56
p0 508.6 ± 135.4
pull
Entries 57
Mean −539.8
Std Dev 546

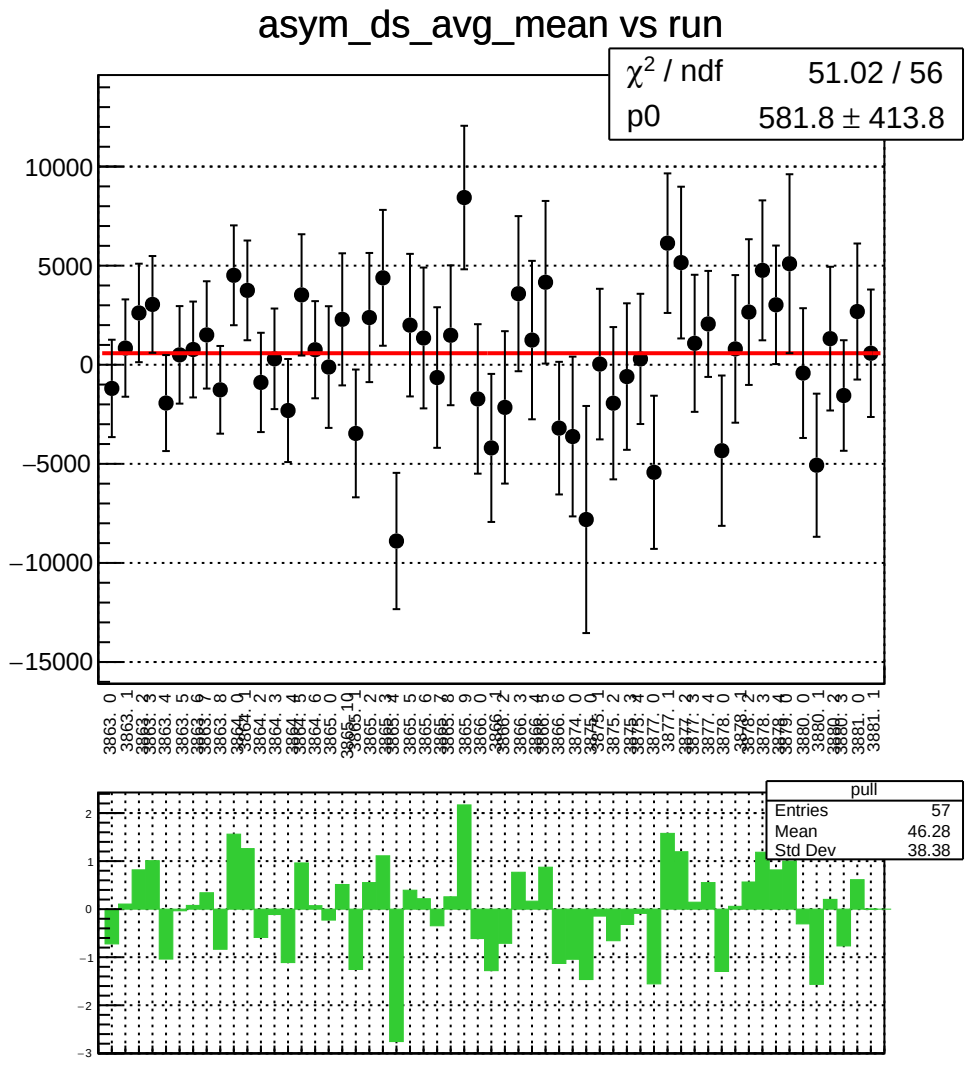

pull1D
Entries 57
Mean −0.001438
Std Dev 1.017

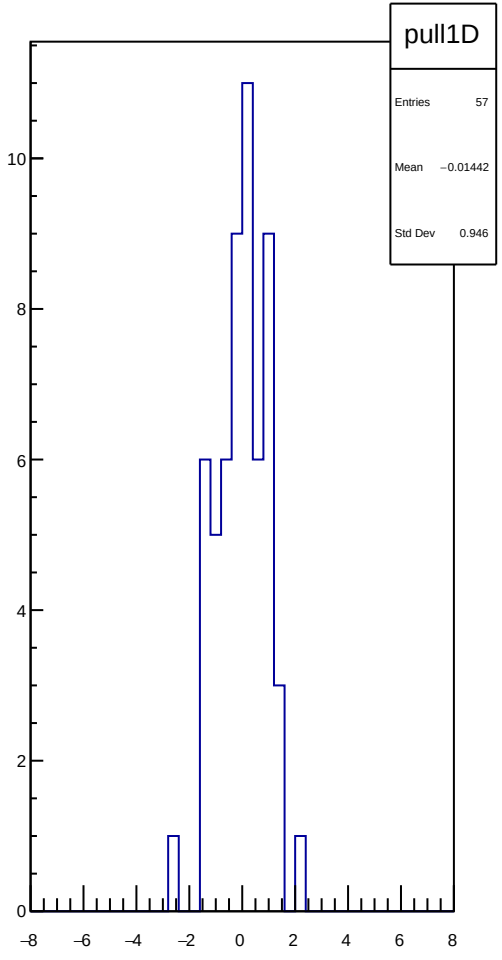

reg_asym_ds_avg_rms vs run
χ^2 / ndf 578.5 / 56
p0 99.83 ± 0.09576
112
110
108
106
104
102
100
98
96

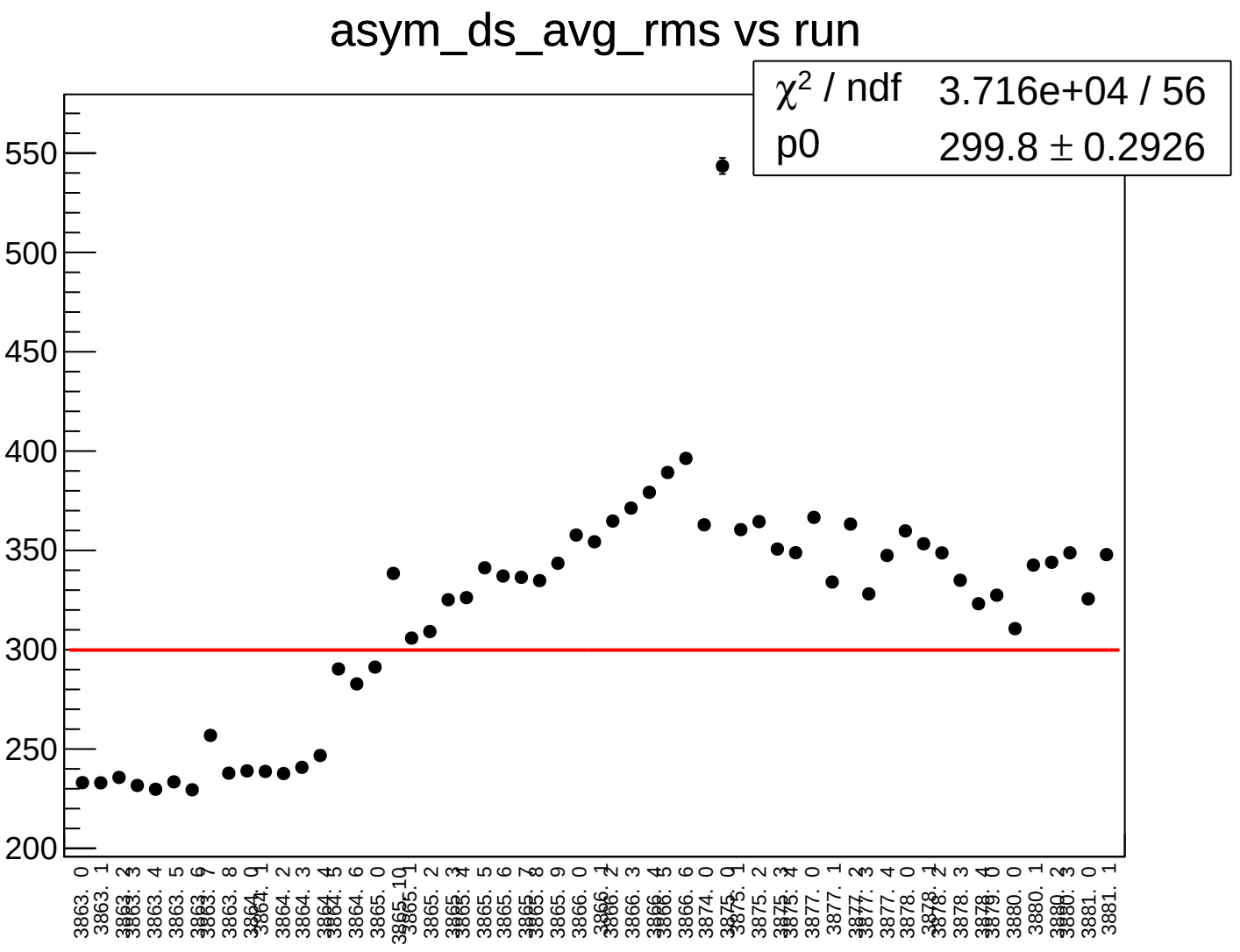

asym_ds_avg_correction_mean vs run
χ² / ndf 50.39 / 56
p0 −138.2 ± 386.8
15000
10000
5000
0
−5000
−10000
pull
Entries 57
Mean 58.02
Std Dev 43.92
3
2
1
0
−1
−2

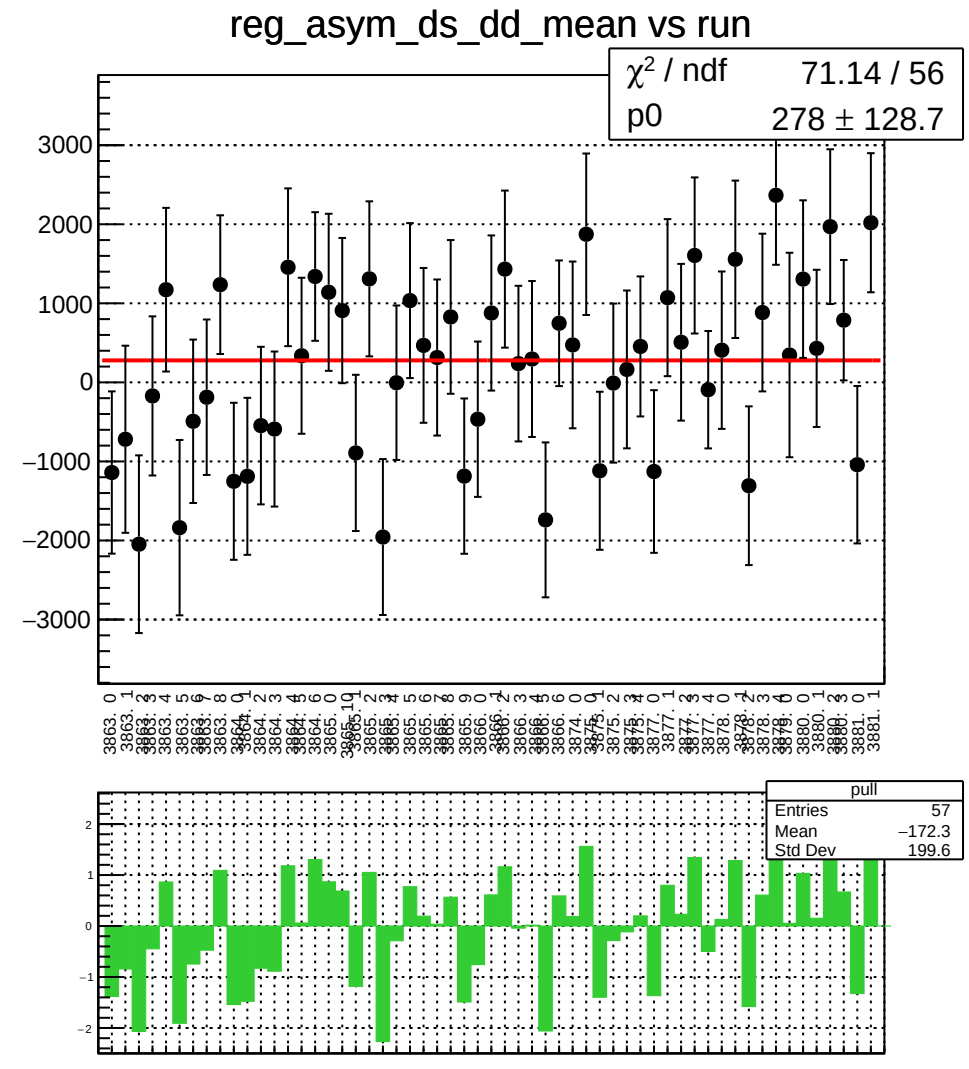

pull1D
Entries 57
Mean 0.02711
Std Dev 0.9398
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

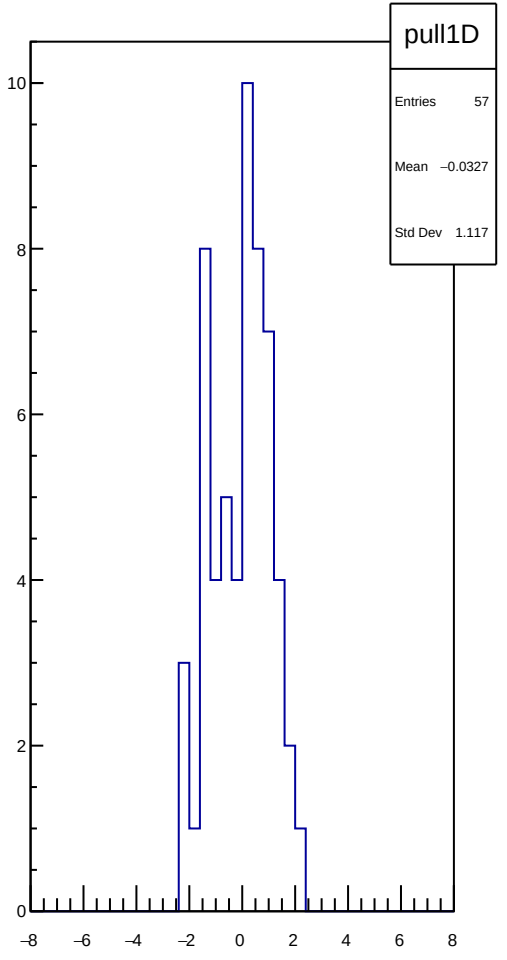

asym_ds_avg_correction_rms vs run
χ² / ndf 4.822e+04 / 56
p0 278.8 ± 0.2735
550
500
450
400
350
300
250
200
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

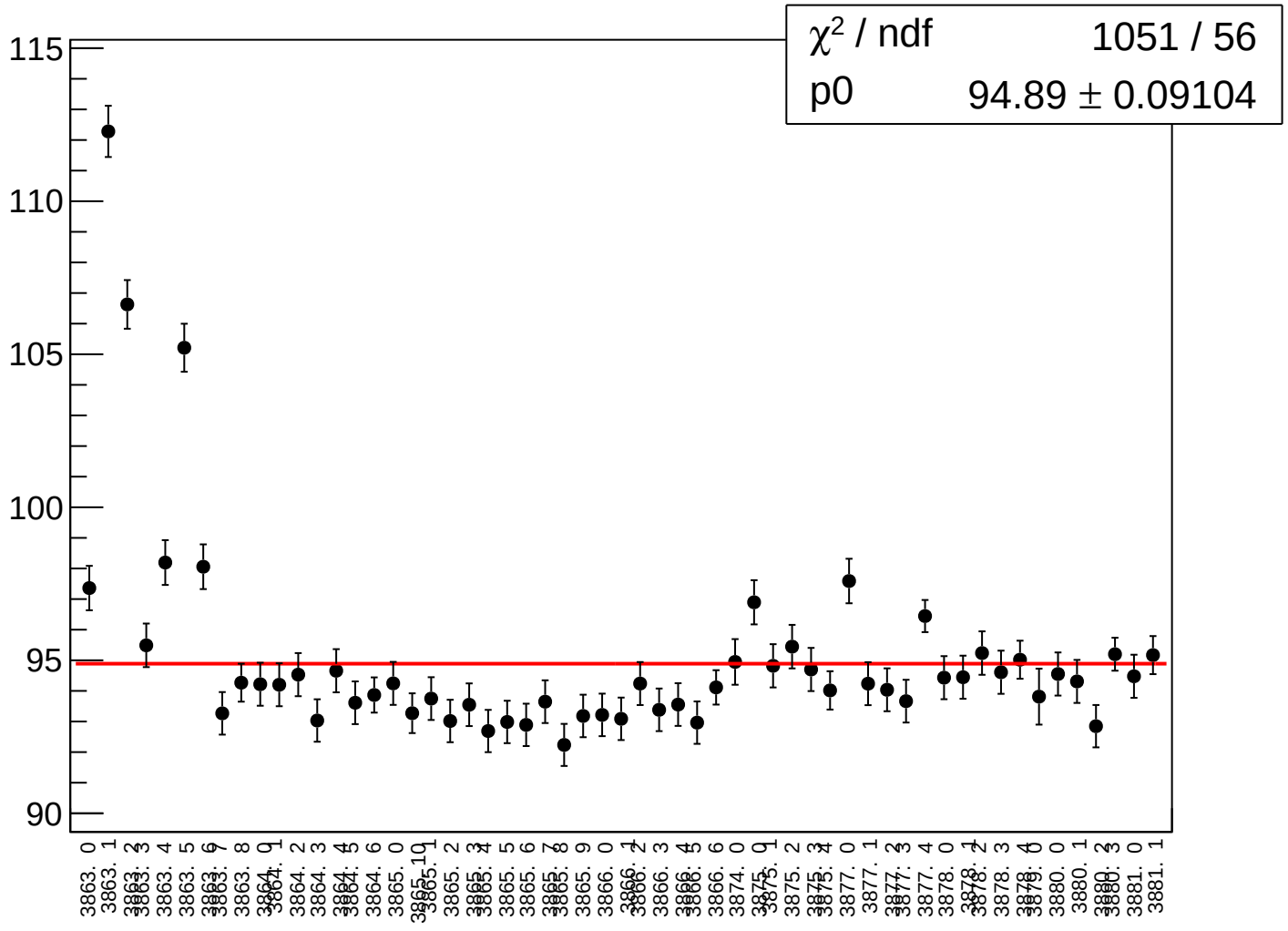

asym_ds_avg_mean vs run
χ² / ndf 51.02 / 56
p0 581.8 ± 413.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 57
Mean 46.28
Std Dev 38.38
2
1
0
−1
−2
−3

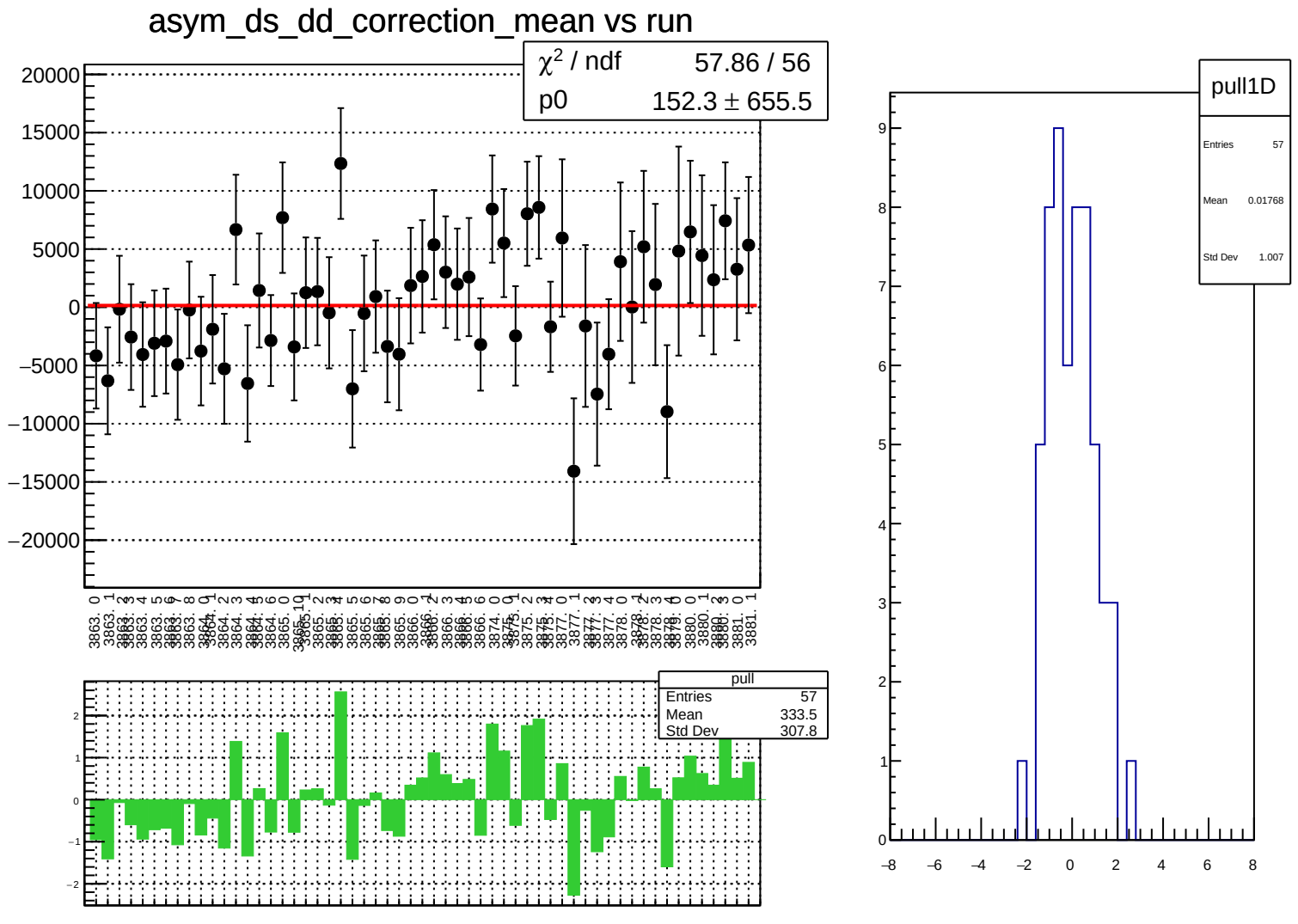

pull1D
Entries 57
Mean −0.01442
Std Dev 0.946
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

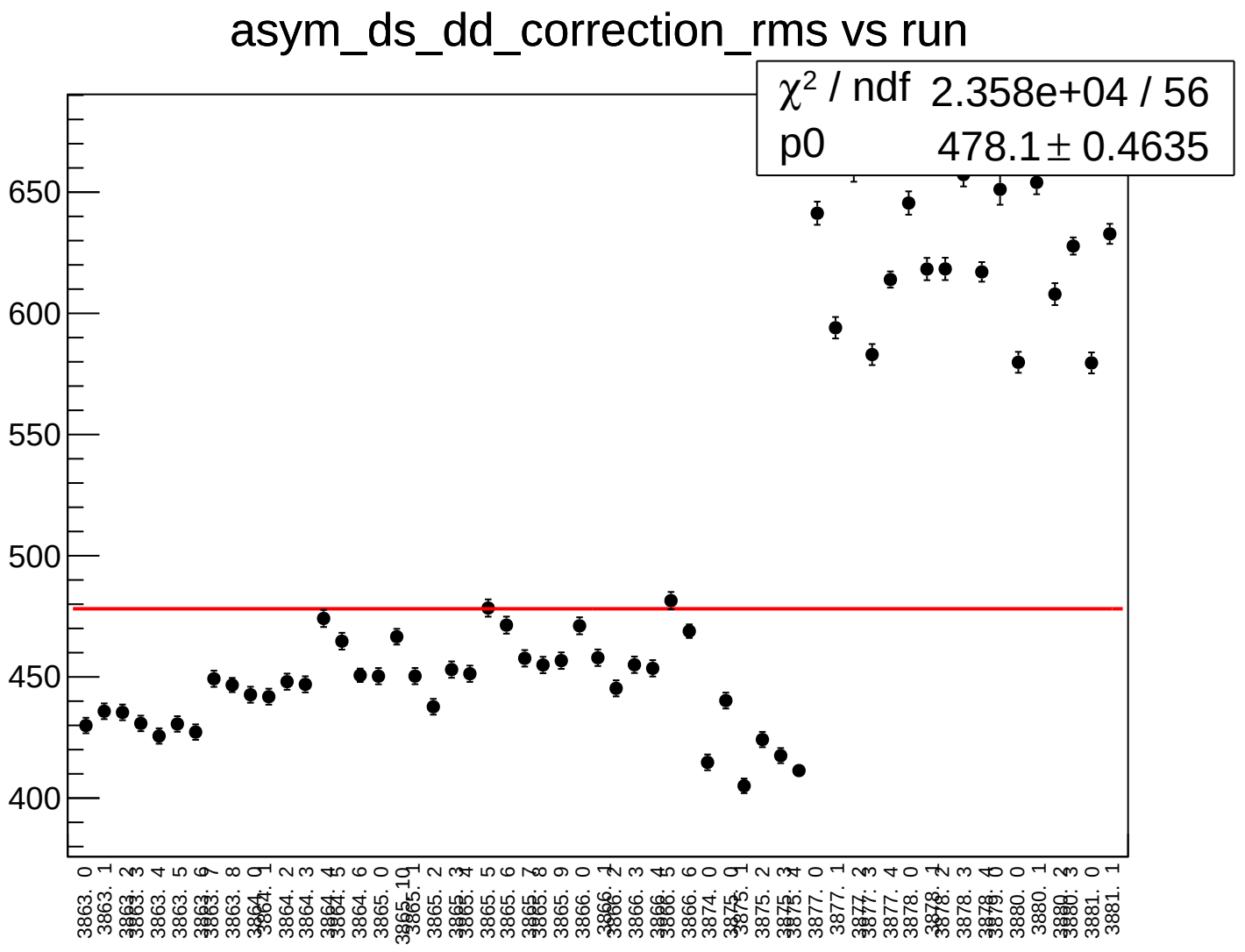

asym_ds_avg_rms vs run
χ² / ndf 3.716e+04 / 56
p0 299.8 ± 0.2926
550
500
450
400
350
300
250
200

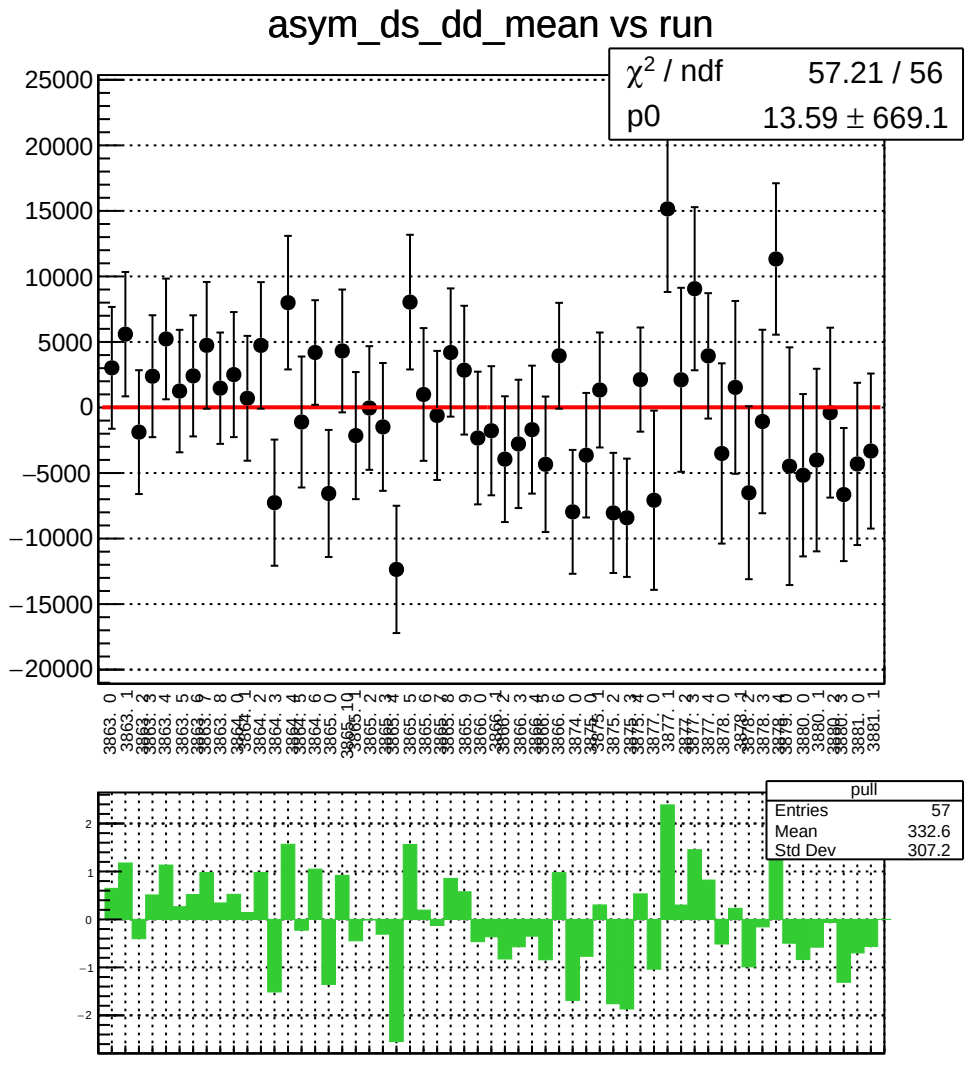

reg_asym_ds_dd_mean vs run
χ² / ndf 71.14 / 56
p0 278 ± 128.7
pull
Entries 57
Mean −172.3
Std Dev 199.6

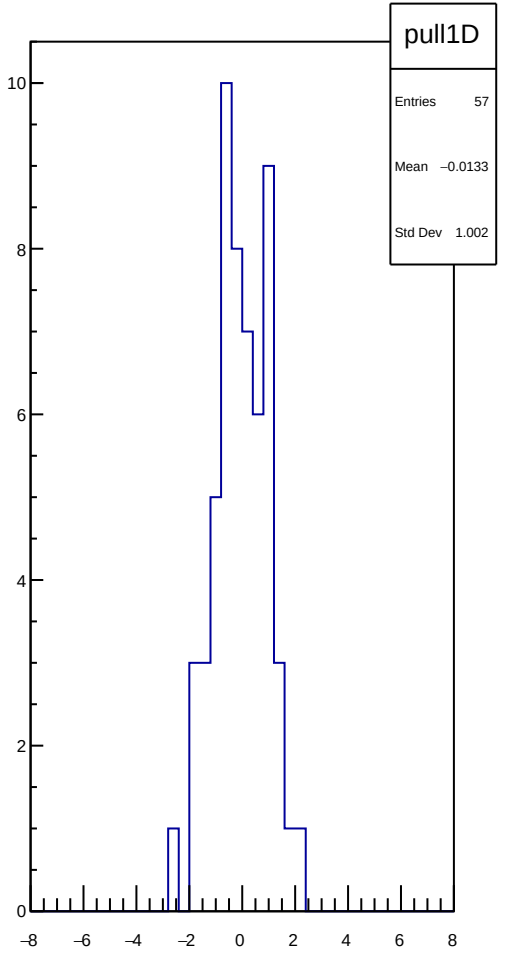

pull1D
Entries 57
Mean −0.0327
Std Dev 1.117

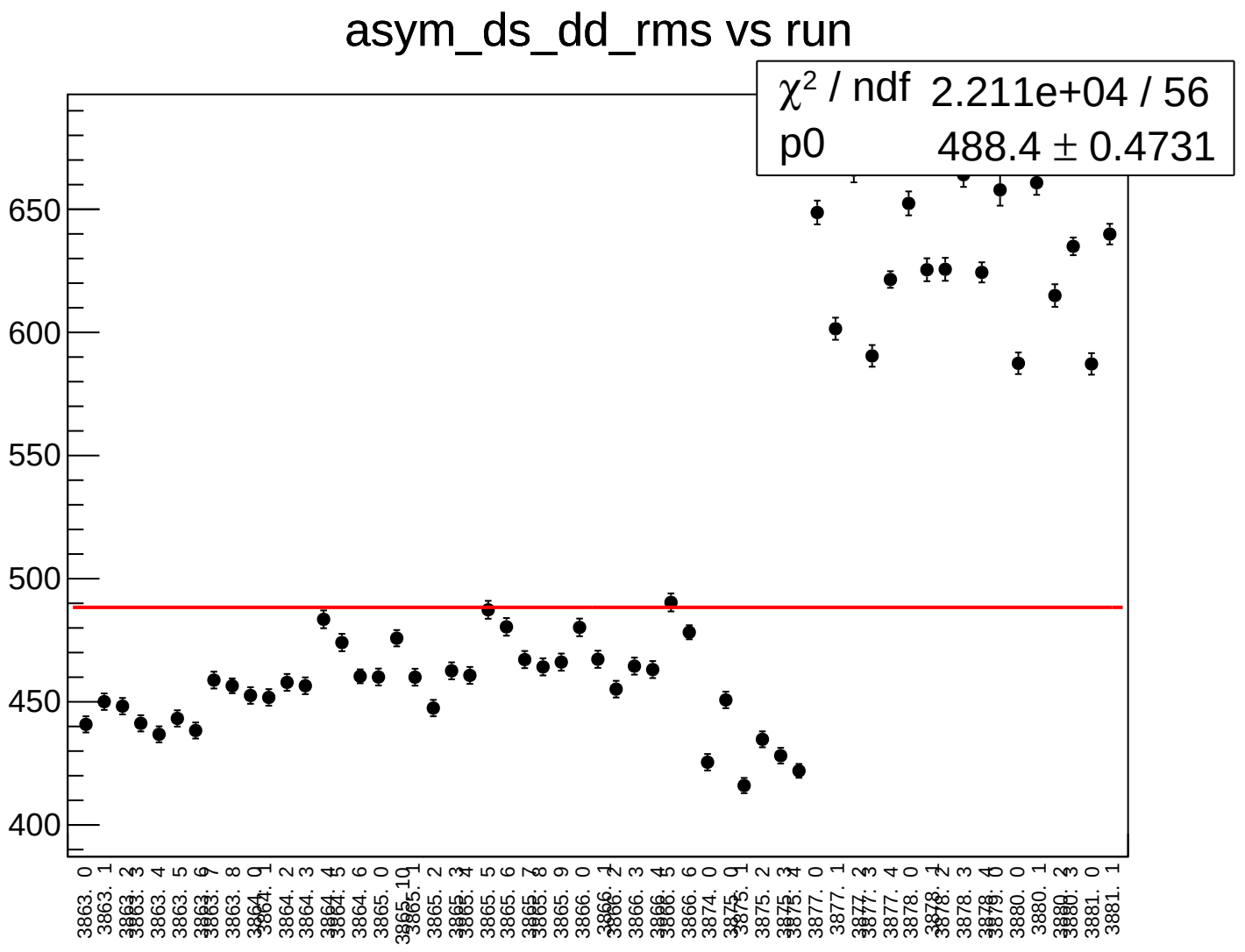

reg_asym_ds_dd_rms vs run
χ² / ndf 1051 / 56
p0 94.89 ± 0.09104
115
110
105
100
95
90

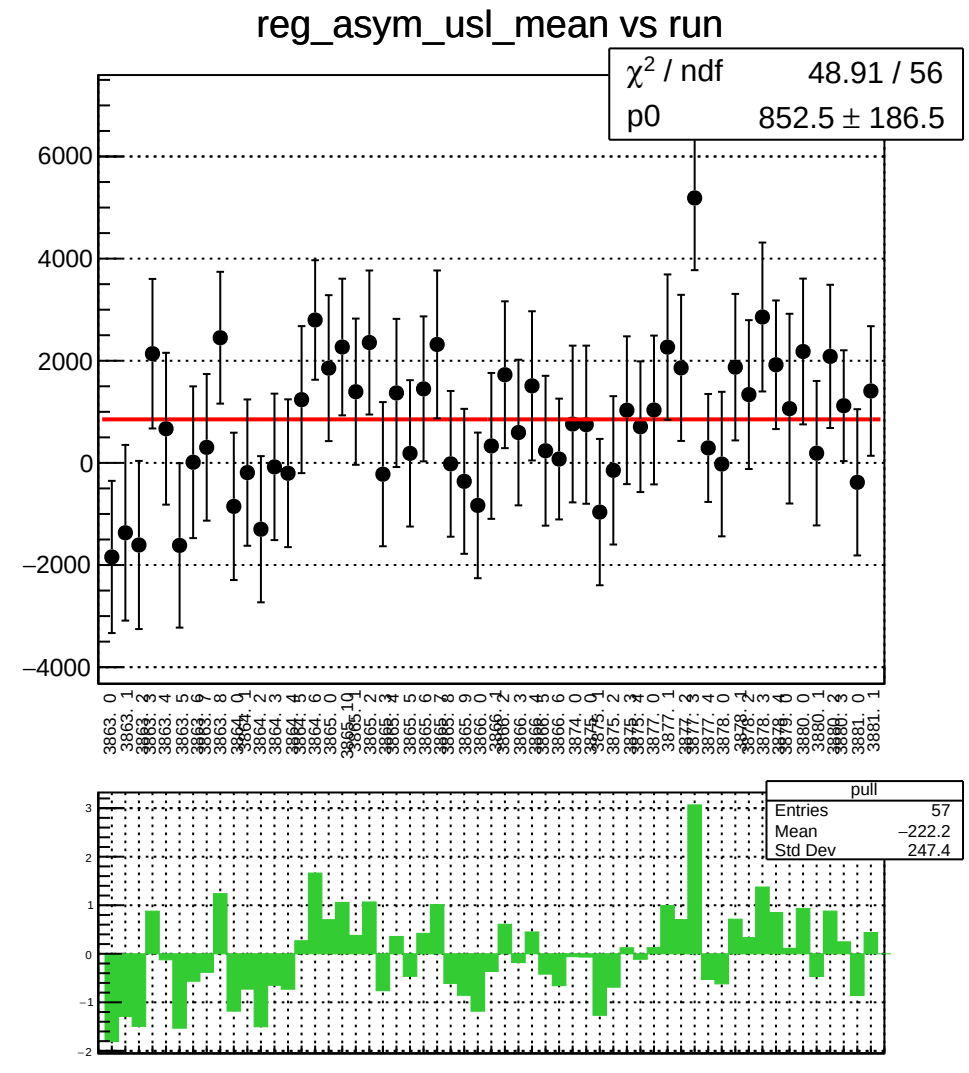

asym_ds_dd_correction_mean vs run
χ² / ndf 57.86 / 56
p0 152.3 ± 655.5
pull
Entries 57
Mean 333.5
Std Dev 307.8
pull1D
Entries 57
Mean 0.01768
Std Dev 1.007

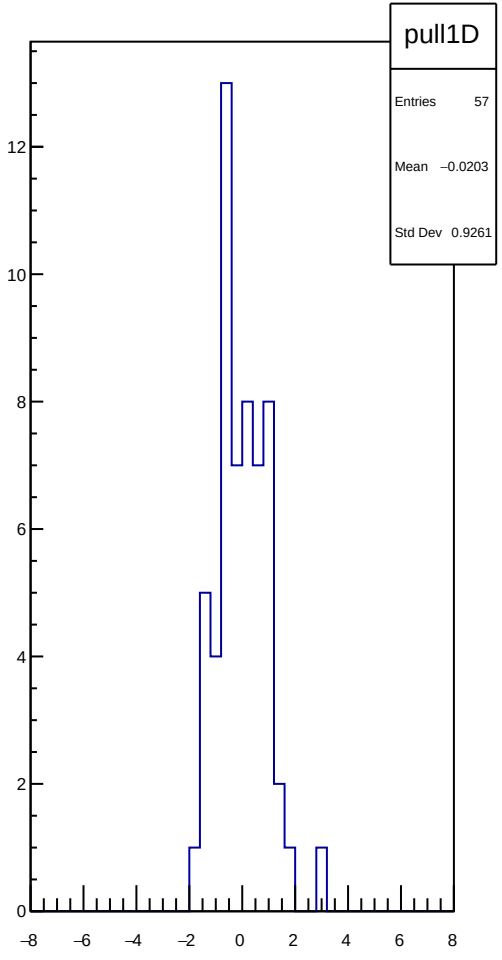

asym_ds_dd_correction_rms vs run
χ² / ndf 2.358e+04 / 56
p0 478.1 ± 0.4635
650
600
550
500
450
400
3863. 0
3863. 1
3863. 4
3863. 5
3863. 8
3865. 0
3865. 2
3865. 5
3865. 6
3865. 9
3866. 0
3866. 3
3866. 6
3874. 0
3875. 2
3877. 0
3877. 1
3877. 4
3878. 0
3878. 3
3880. 0
3880. 1
3881. 0
3881. 1

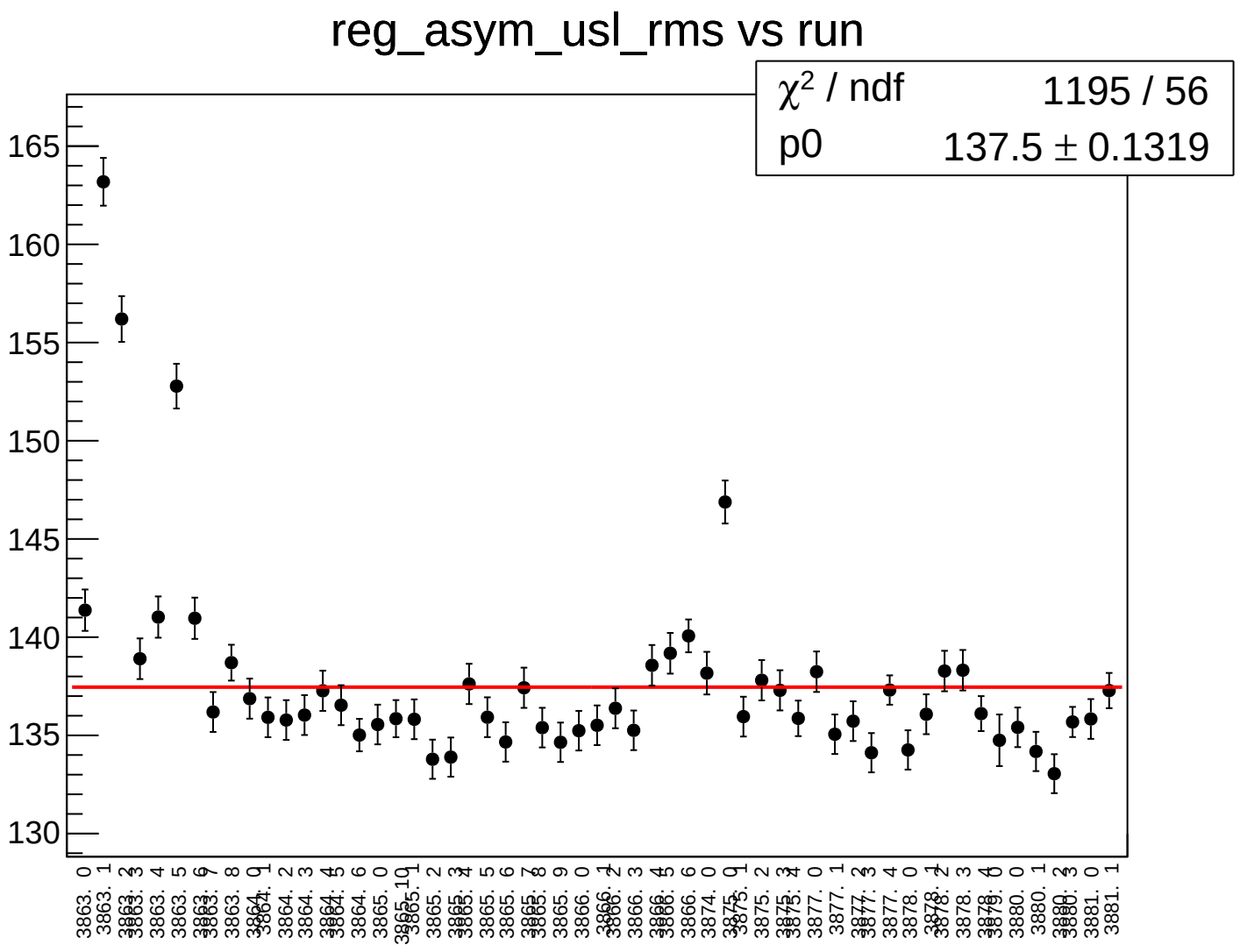

asym_ds_dd_mean vs run
χ² / ndf 57.21 / 56
p0 13.59 ± 669.1
pull
Entries 57
Mean 332.6
Std Dev 307.2

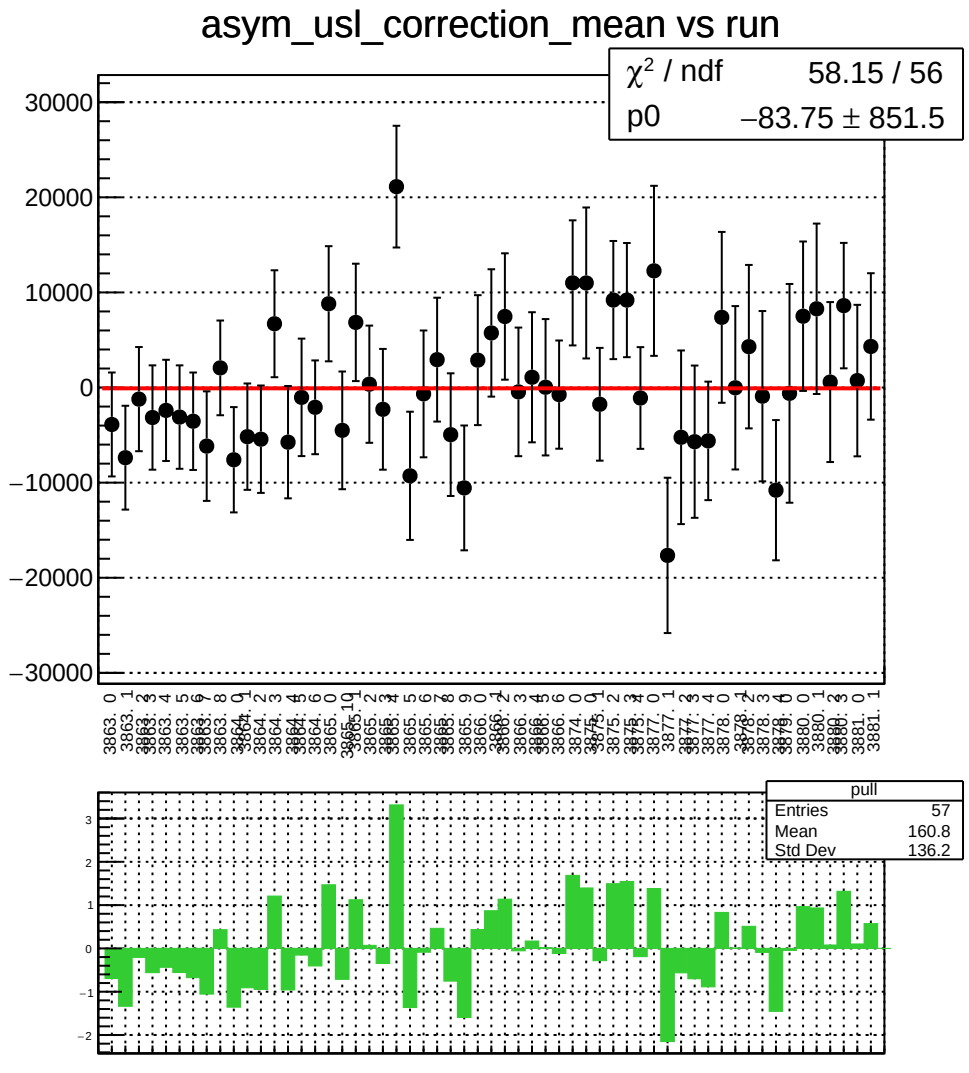

pull1D
Entries 57
Mean −0.0133
Std Dev 1.002

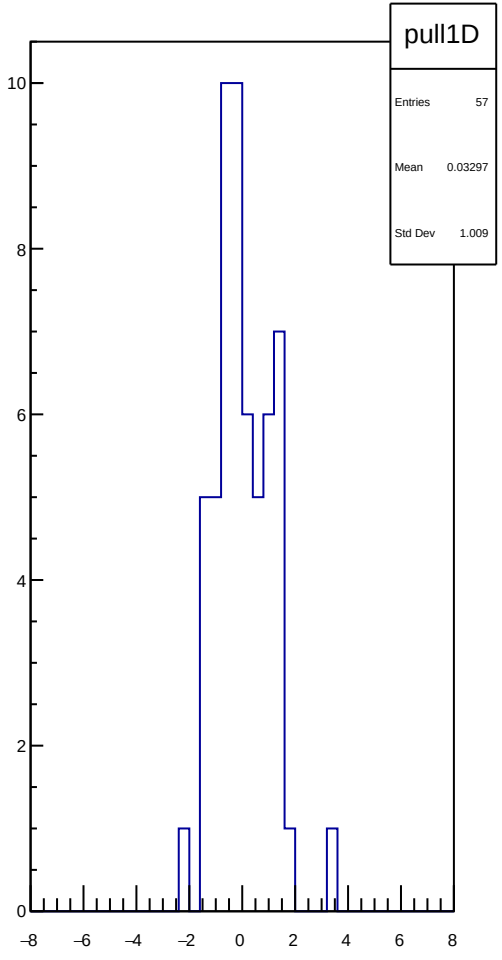

asym_ds_dd_rms vs run
χ² / ndf 2.211e+04 / 56
p0 488.4 ± 0.4731
650
600
550
500
450
400
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

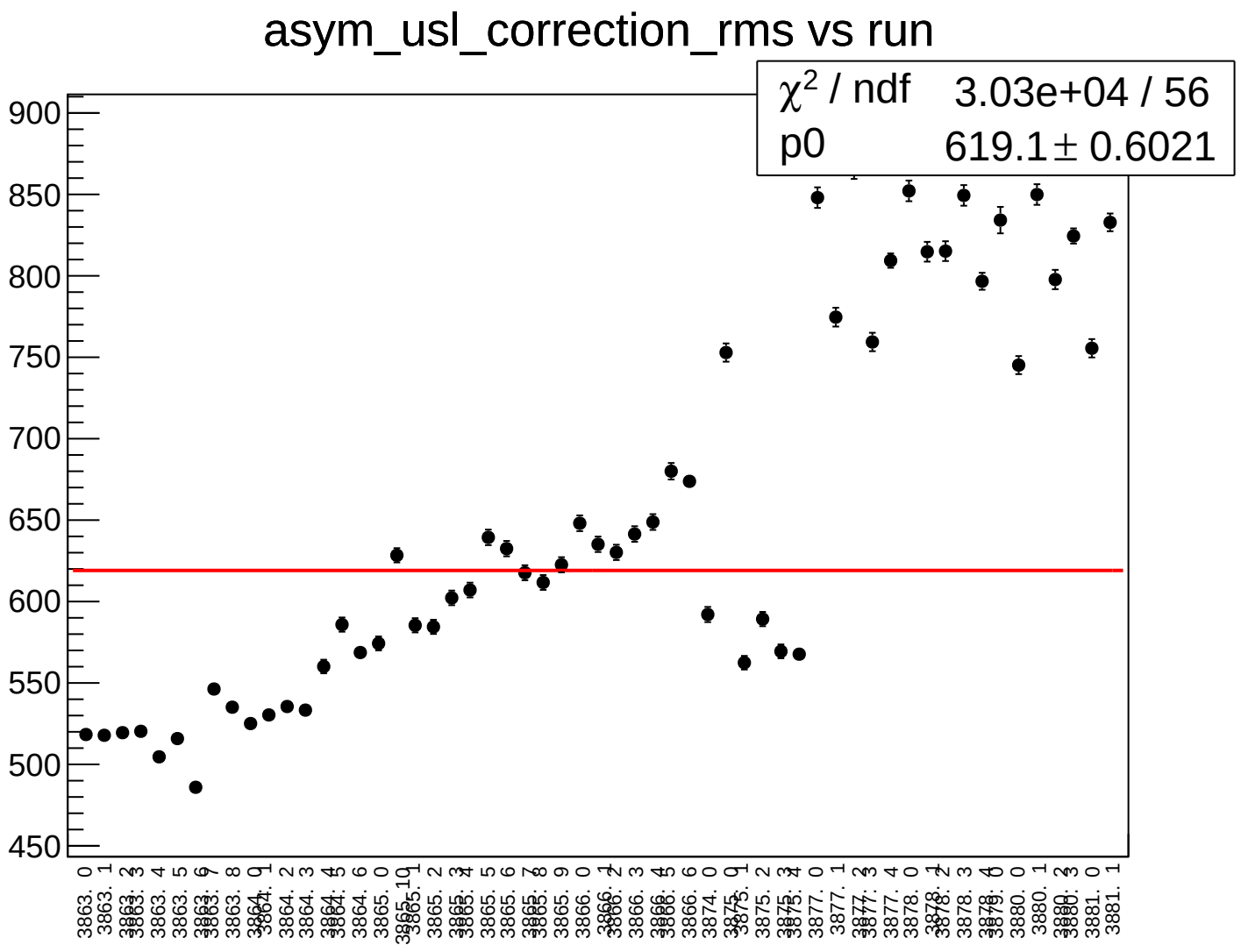

reg_asym_usl_mean vs run
χ² / ndf 48.91 / 56
p0 852.5 ± 186.5
6000
4000
2000
0
−2000
−4000
pull
Entries 57
Mean −222.2
Std Dev 247.4
3
2
1
0
−1
−2

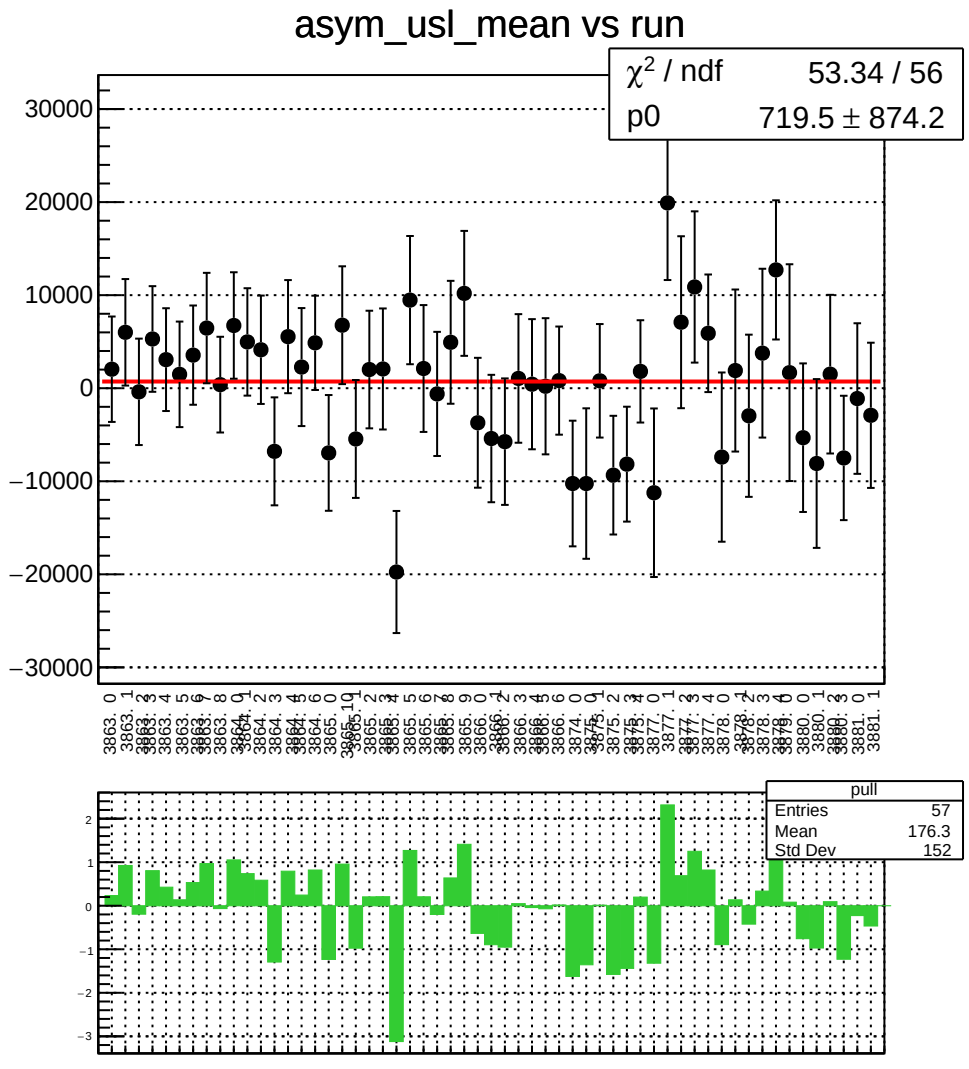

pull1D
Entries 57
Mean −0.0203
Std Dev 0.9261
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

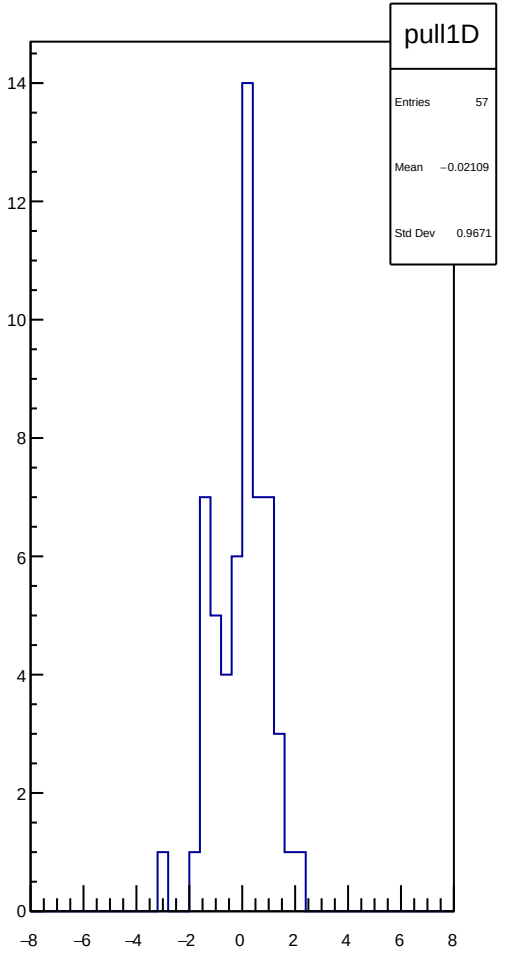

reg_asym_usl_rms vs run
χ² / ndf 1195 / 56
p0 137.5 ± 0.1319
165
160
155
150
145
140
135
130

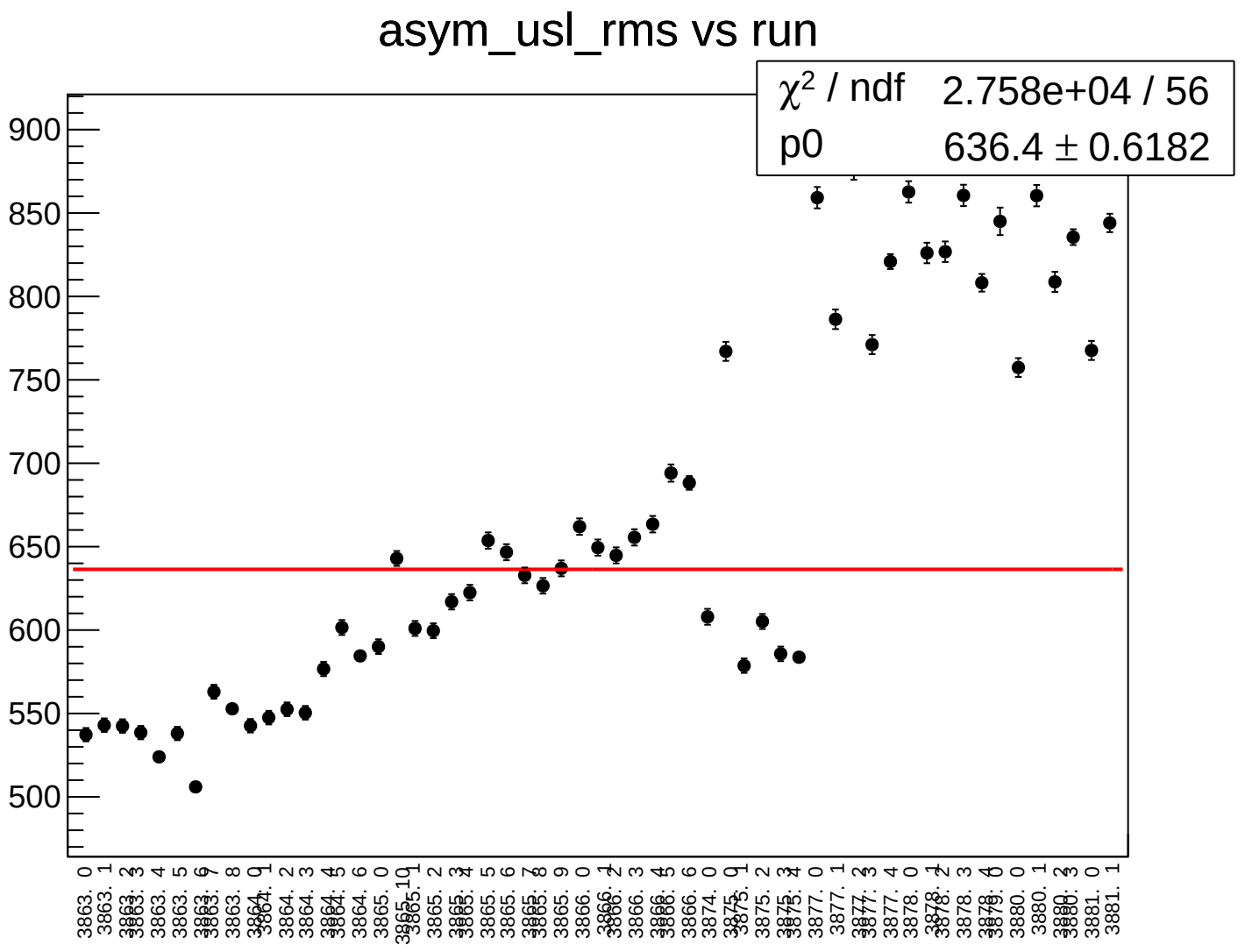

asym_usl_correction_mean vs run
χ² / ndf 58.15 / 56
p0 −83.75 ± 851.5
pull
Entries 57
Mean 160.8
Std Dev 136.2

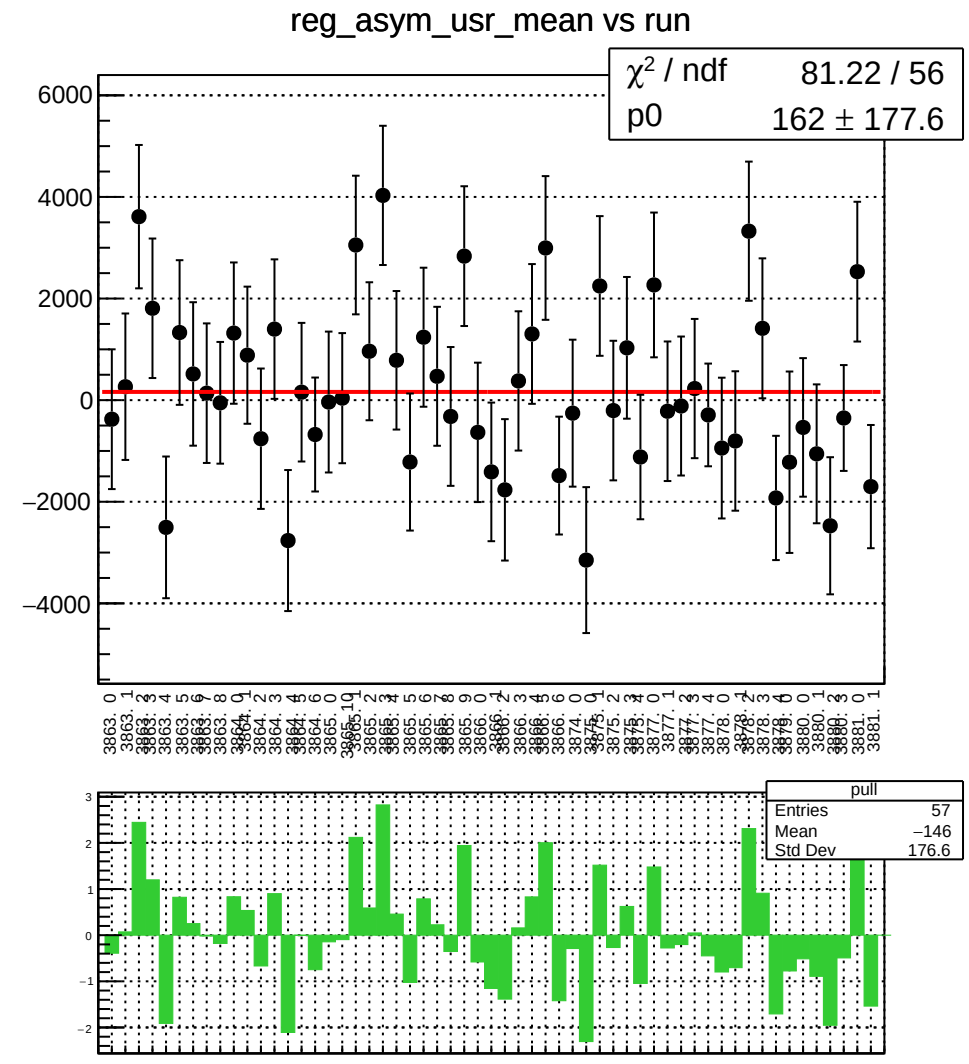

pull1D
Entries 57
Mean 0.03297
Std Dev 1.009

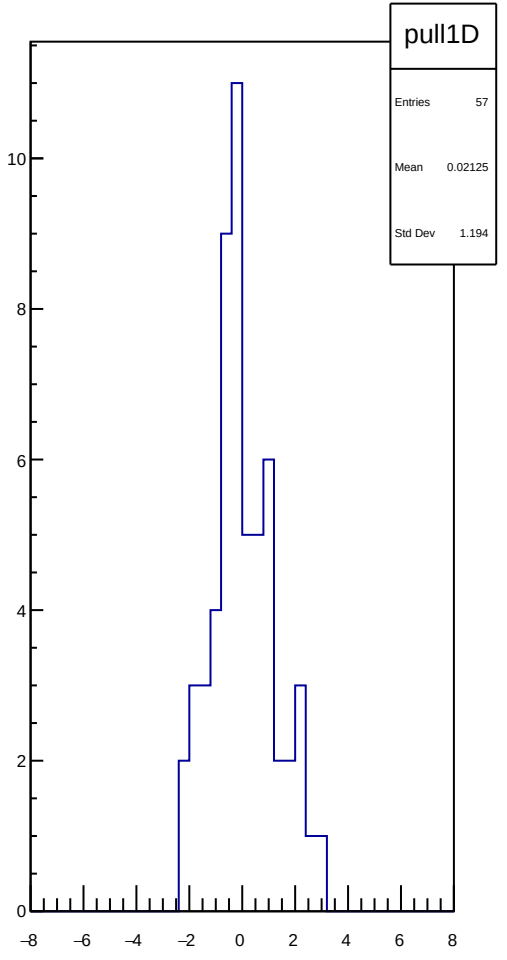

asym_usl_correction_rms vs run
χ² / ndf 3.03e+04 / 56
p0 619.1 ± 0.6021
900
850
800
750
700
650
600
550
500
450

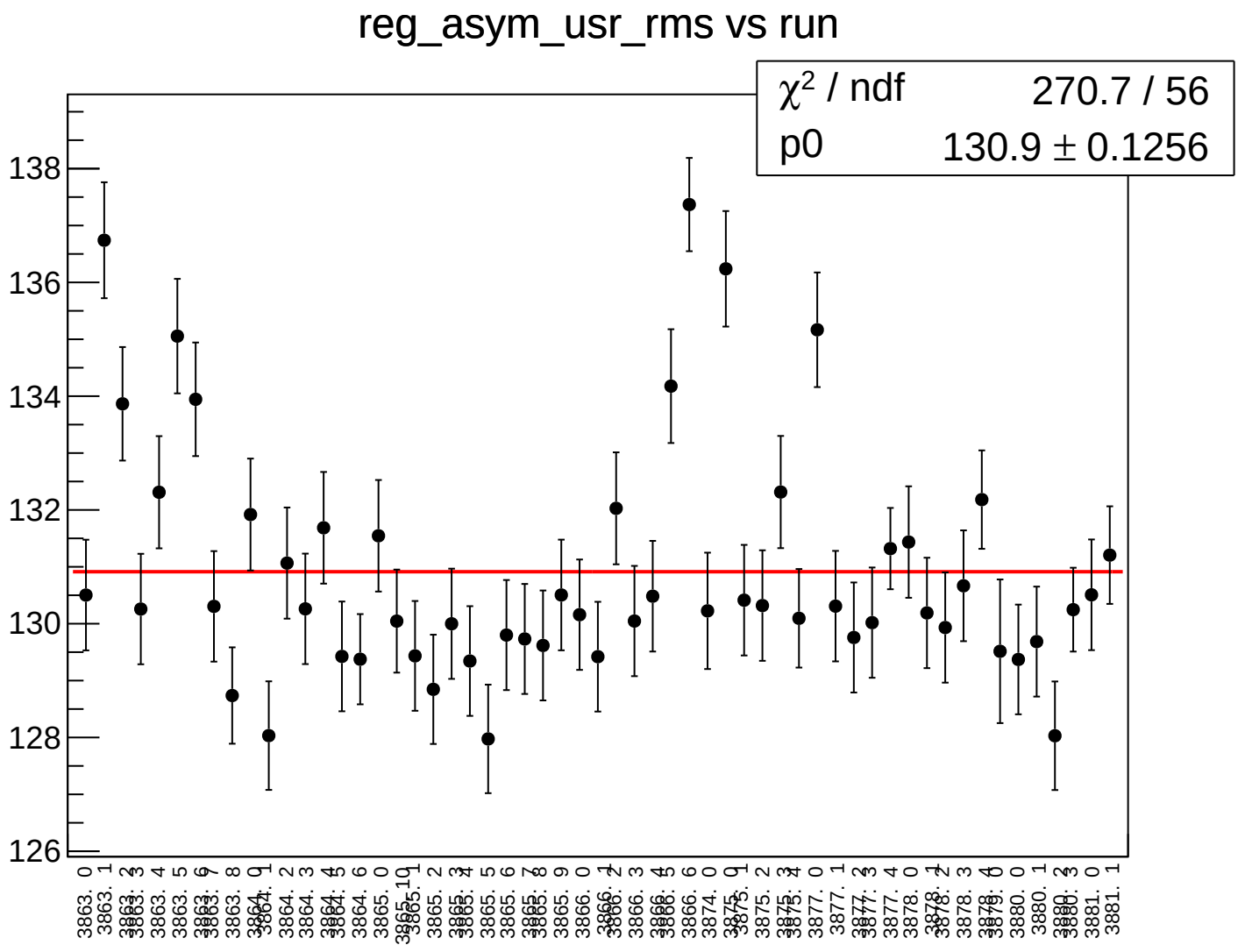

asym_usl_mean vs run
χ² / ndf 53.34 / 56
p0 719.5 ± 874.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 57
Mean 176.3
Std Dev 152
2
1
0
−1
−2
−3

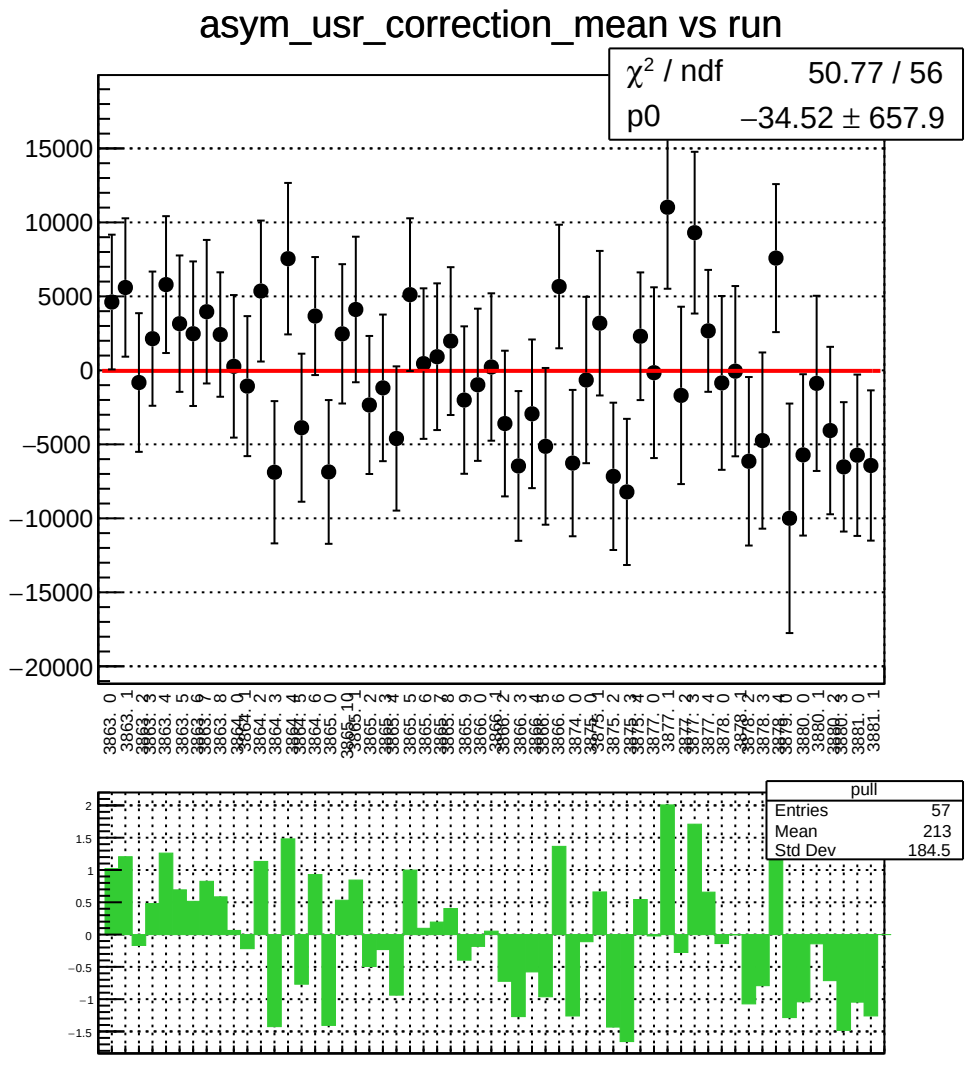

pull1D
Entries 57
Mean −0.02109
Std Dev 0.9671
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

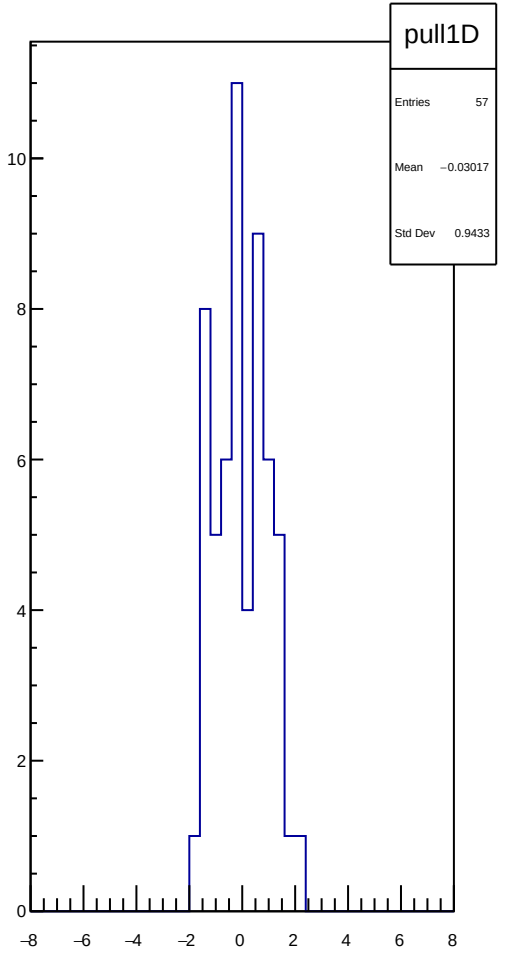

asym_usl_rms vs run
χ² / ndf 2.758e+04 / 56
p0 636.4 ± 0.6182
900
850
800
750
700
650
600
550
500

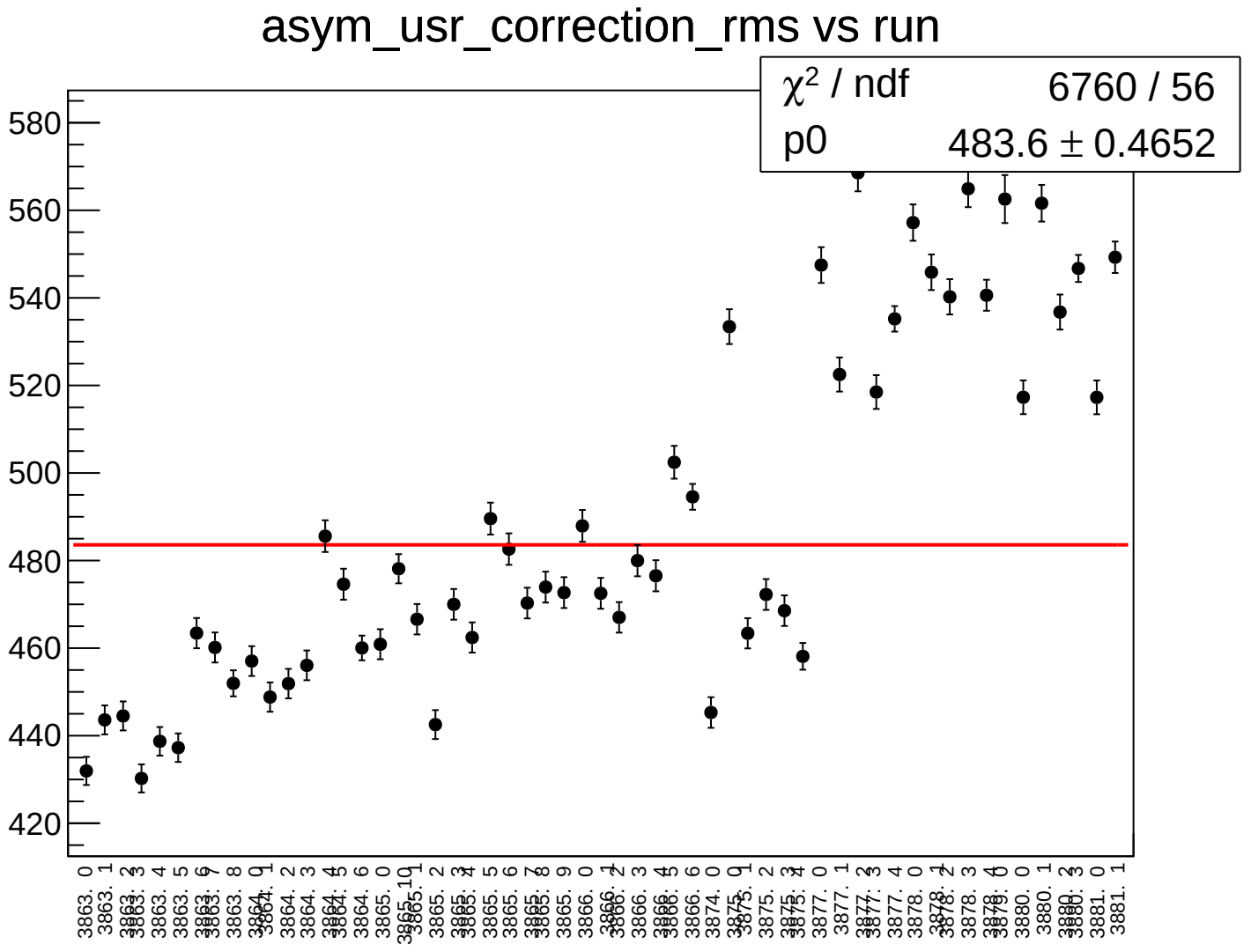

reg_asym_usr_mean vs run
χ² / ndf 81.22 / 56
p0 162 ± 177.6
6000
4000
2000
0
−2000
−4000
pull
Entries 57
Mean −146
Std Dev 176.6
3
2
1
0
−1
−2

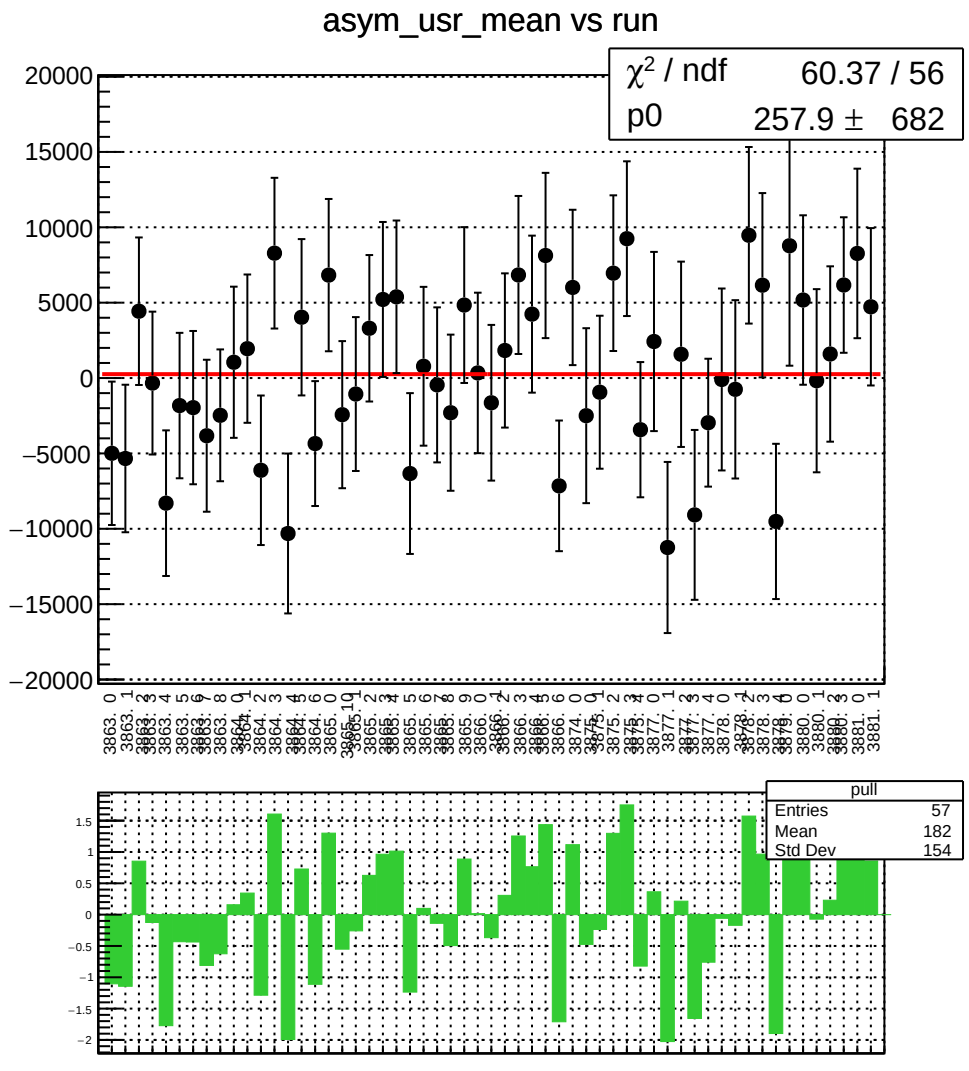

pull1D
Entries 57
Mean 0.02125
Std Dev 1.194
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

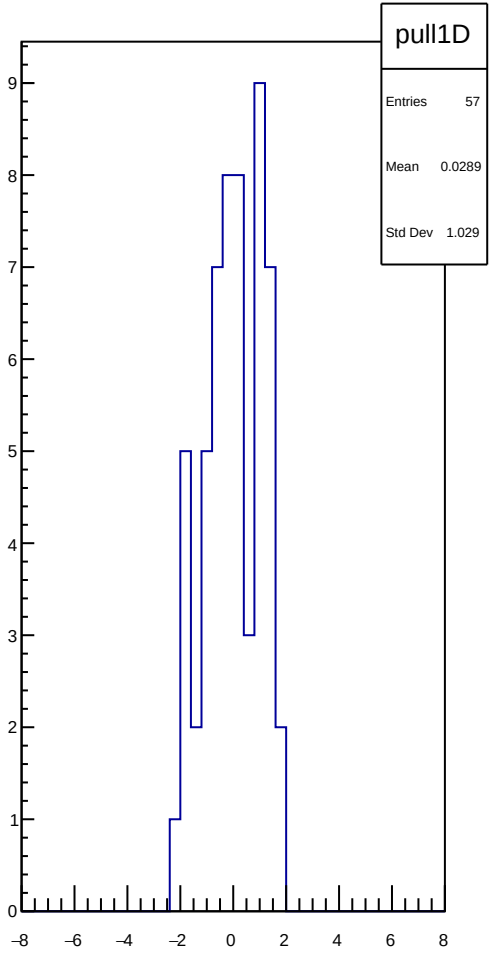

reg_asym_usr_rms vs run
χ² / ndf 270.7 / 56
p0 130.9 ± 0.1256
138
136
134
132
130
128
126

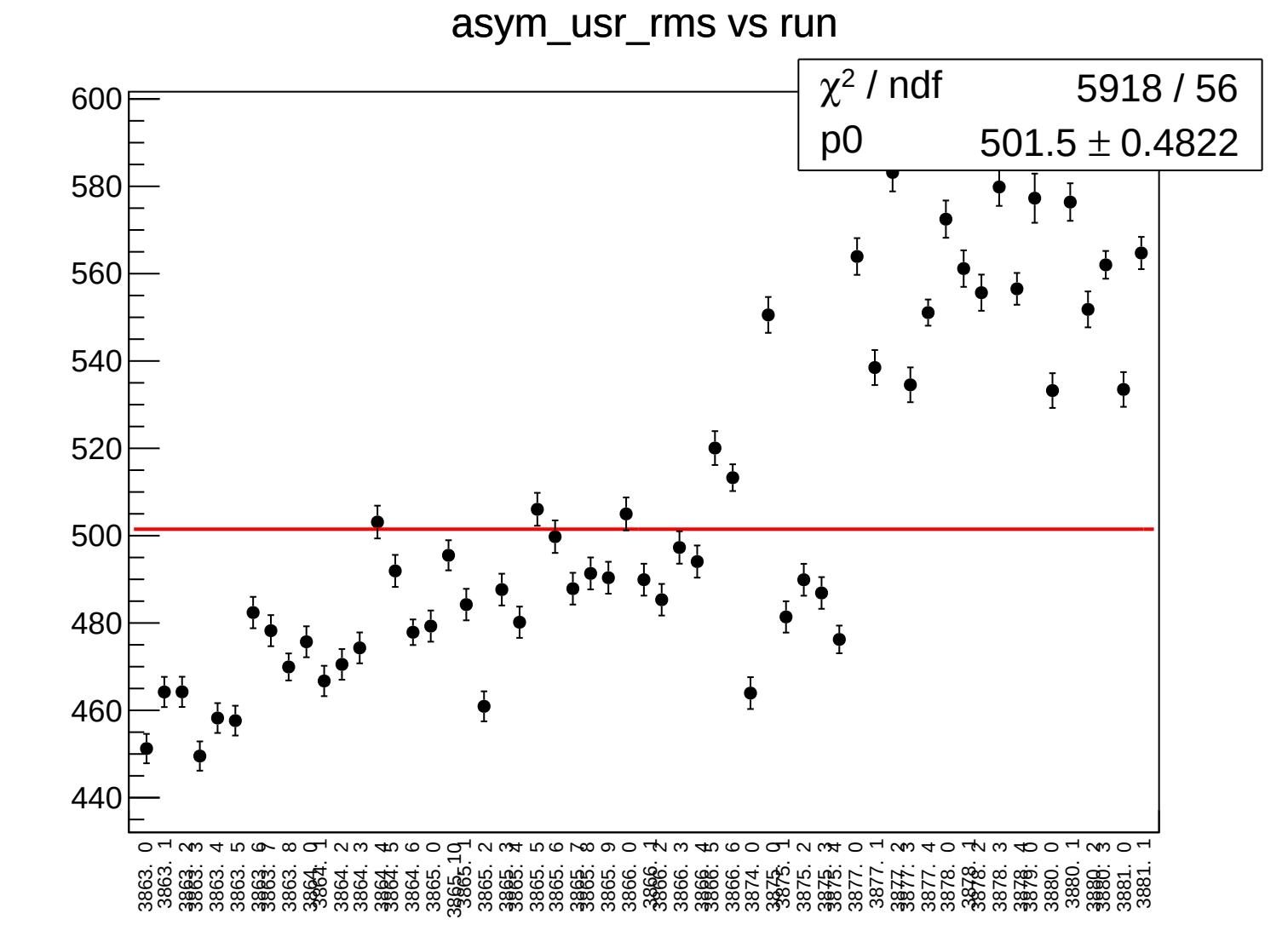

asym_usr_correction_mean vs run
χ² / ndf 50.77 / 56
p0 −34.52 ± 657.9
pull
Entries 57
Mean 213
Std Dev 184.5

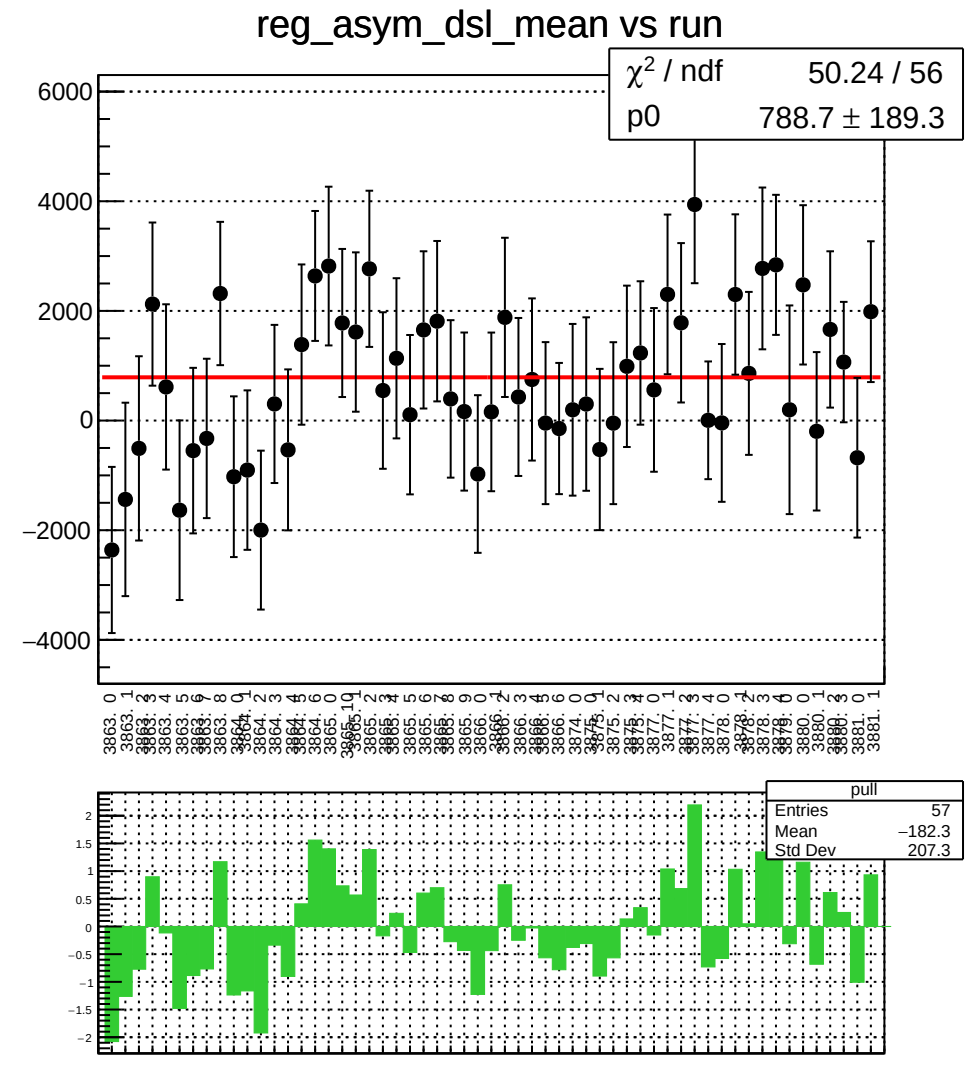

pull1D
Entries 57
Mean −0.03017
Std Dev 0.9433

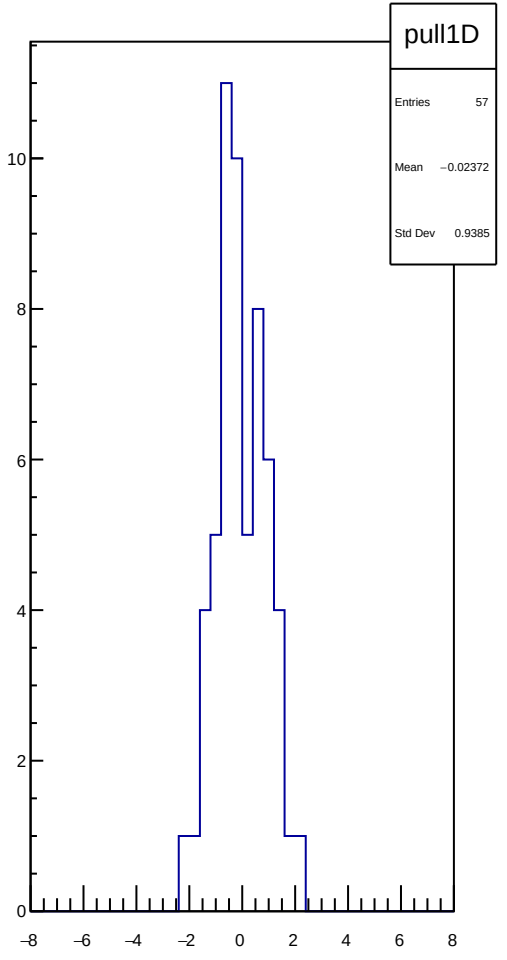

asym_usr_correction_rms vs run
χ² / ndf 6760 / 56
p0 483.6 ± 0.4652
580
560
540
520
500
480
460
440
420
3863. 0
3863. 1
3863. 4
3863. 5
3863. 8
3865. 5
3865. 6
3865. 9
3866. 0
3866. 3
3874. 0
3875. 2
3877. 0
3877. 1
3877. 4
3878. 0
3878. 3
3880. 0
3880. 1
3881. 0
3881. 1

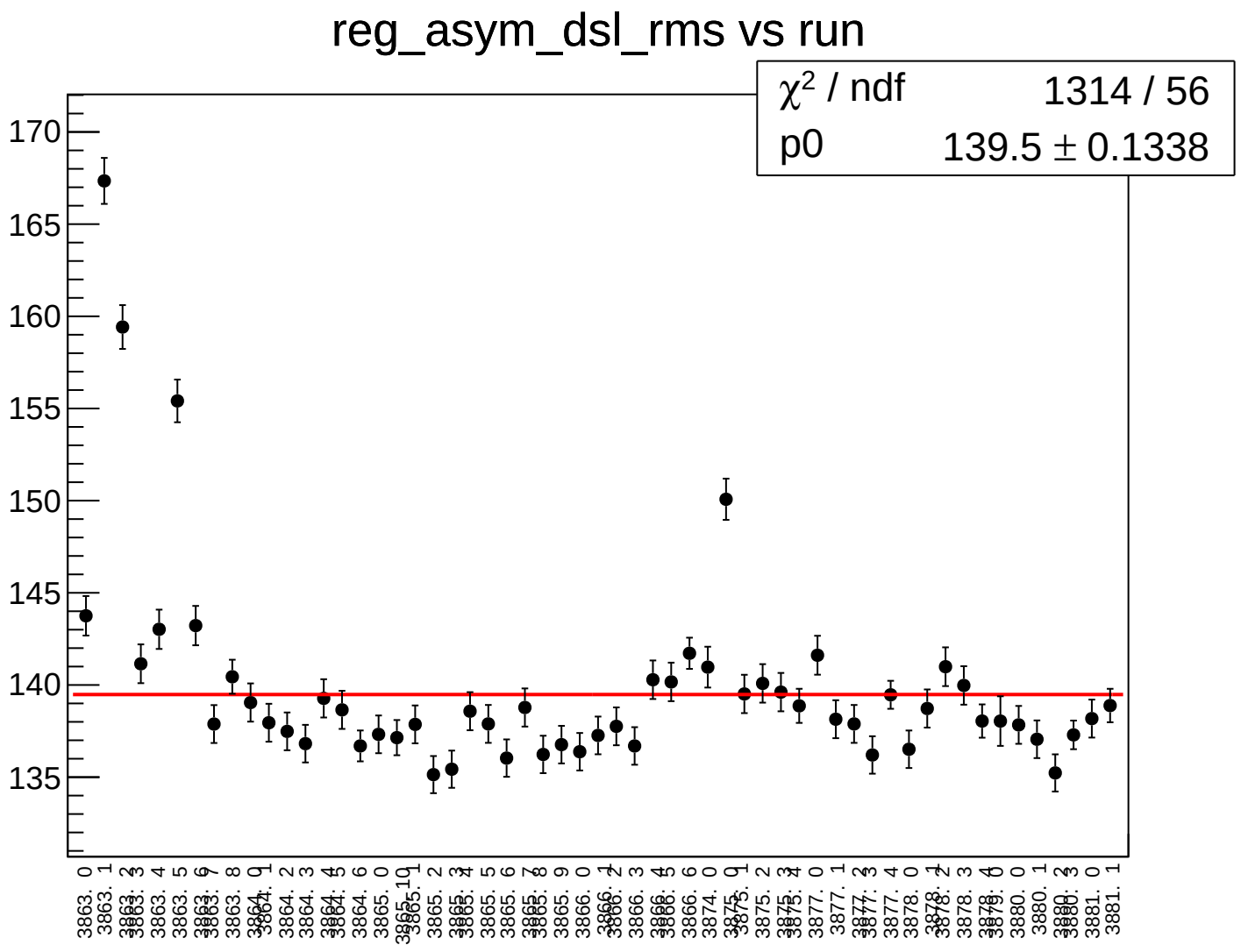

asym_usr_mean vs run
χ² / ndf 60.37 / 56
p0 257.9 ± 682
pull
Entries 57
Mean 182
Std Dev 154

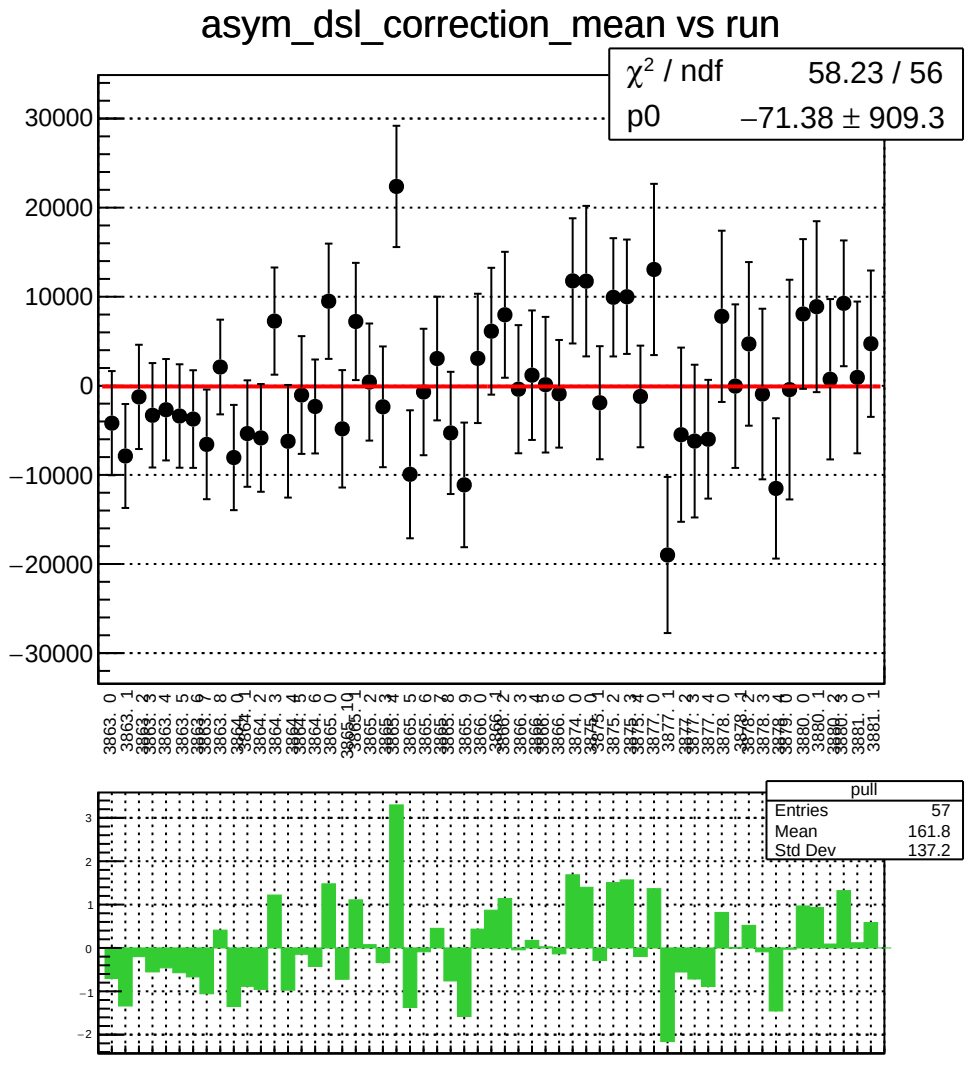

pull1D
Entries 57
Mean 0.0289
Std Dev 1.029

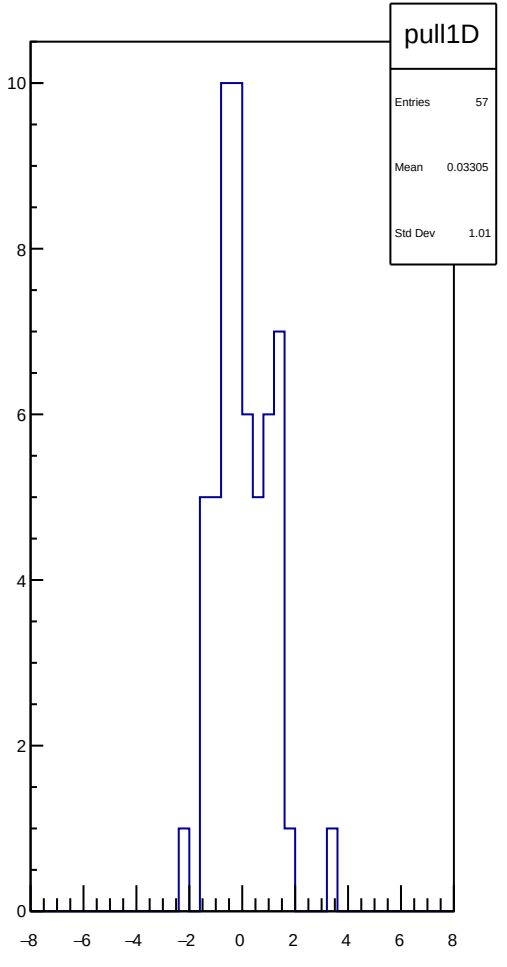

asym_usr_rms vs run
χ^2 / ndf 5918 / 56
p0 501.5 ± 0.4822
600
580
560
540
520
500
480
460
440

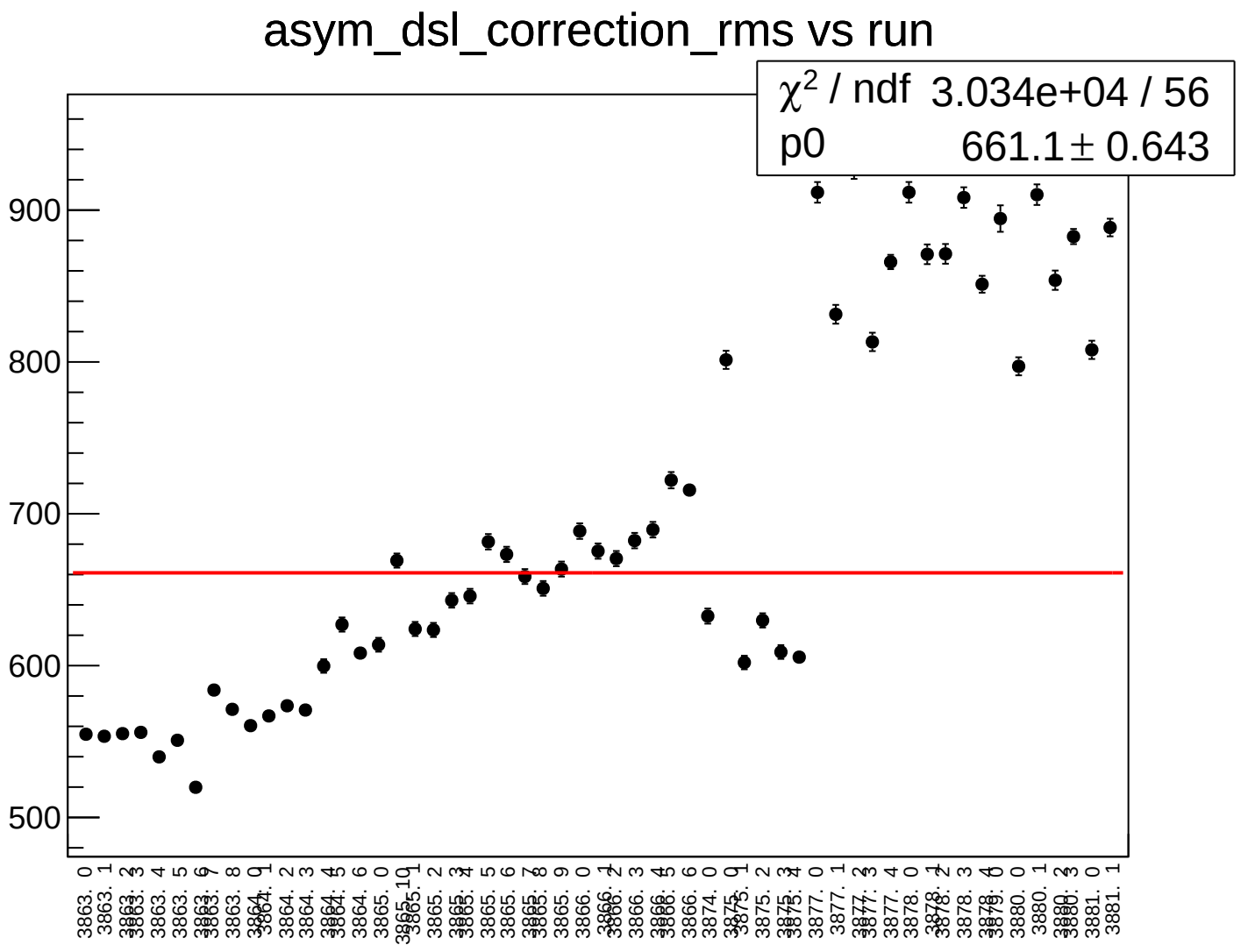

reg_asym_dsl_mean vs run
χ² / ndf 50.24 / 56
p0 788.7 ± 189.3
pull
Entries 57
Mean −182.3
Std Dev 207.3

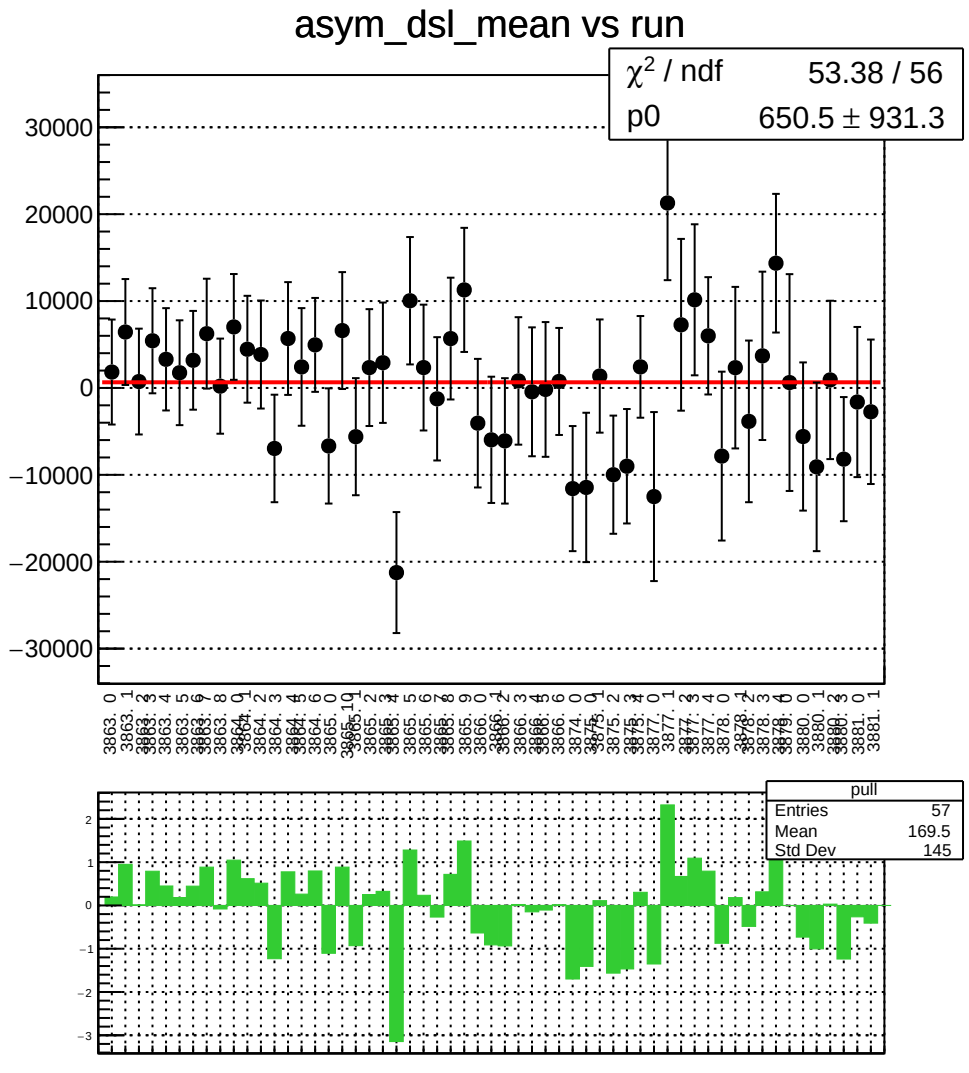

pull1D
Entries 57
Mean −0.02372
Std Dev 0.9385

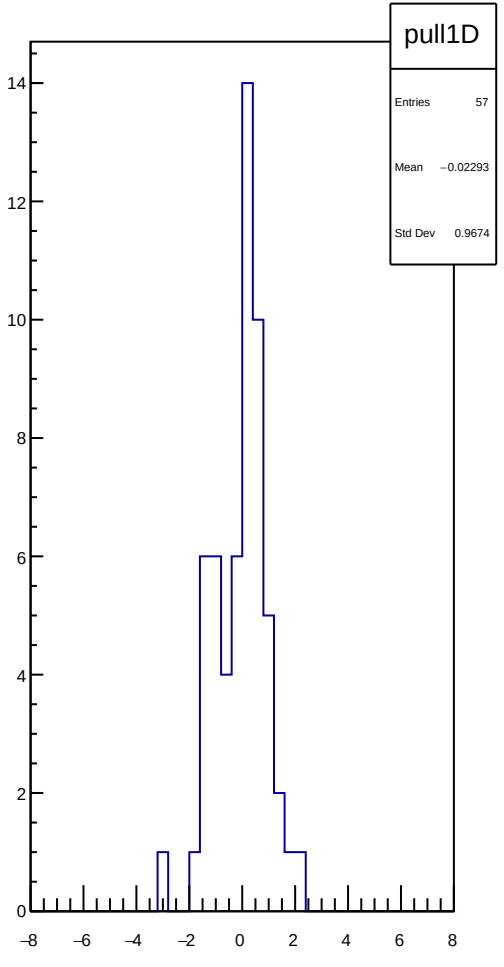

reg_asym_dsl_rms vs run
χ² / ndf 1314 / 56
p0 139.5 ± 0.1338
170
165
160
155
150
145
140
135

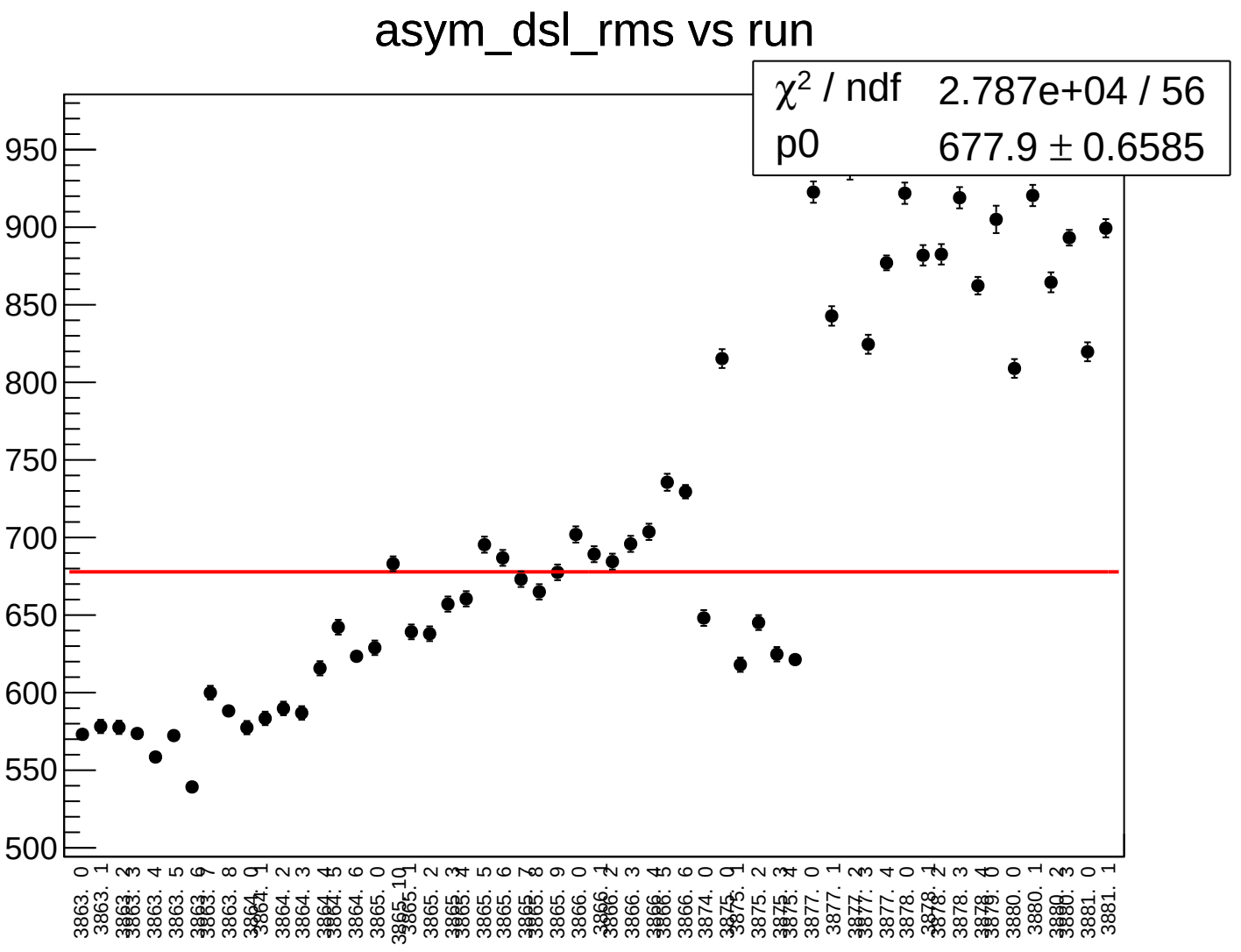

asym_dsl_correction_mean vs run
χ² / ndf 58.23 / 56
p0 −71.38 ± 909.3
pull
Entries 57
Mean 161.8
Std Dev 137.2

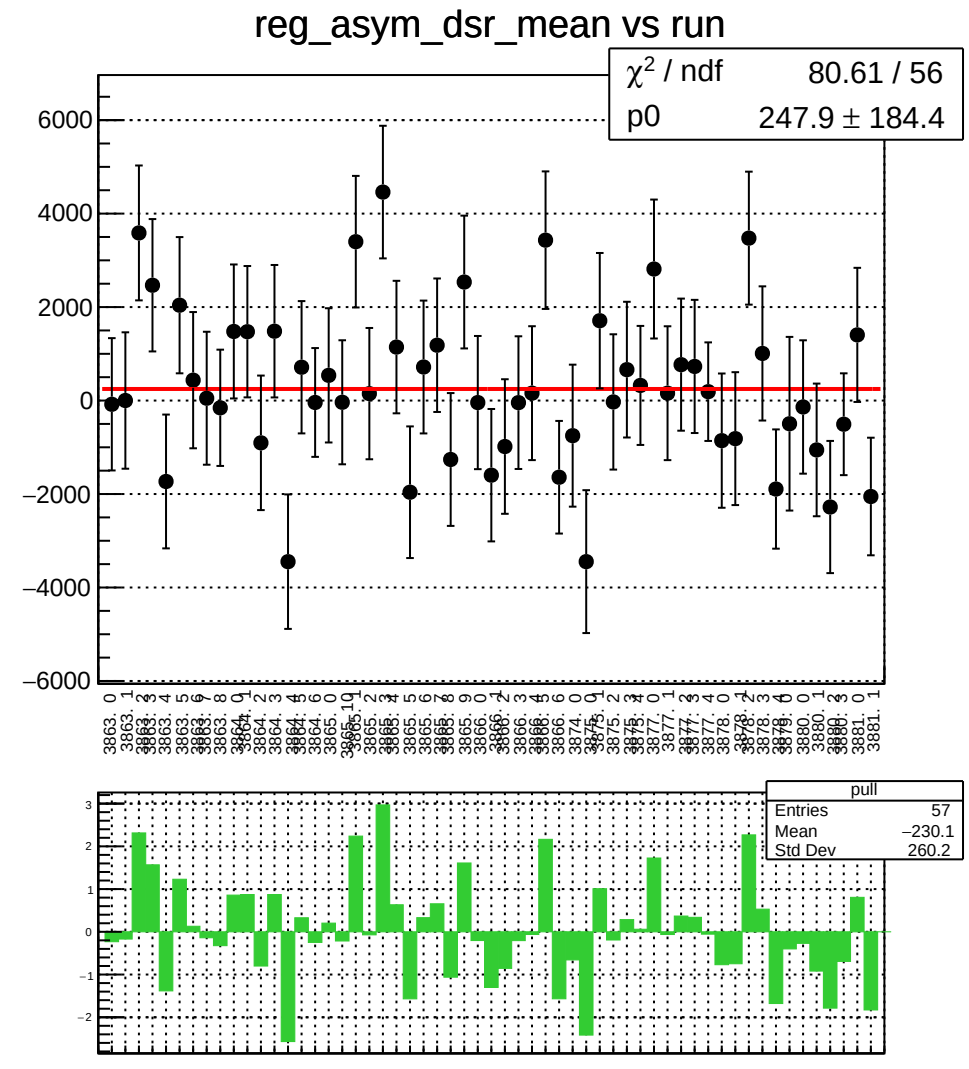

pull1D
Entries 57
Mean 0.03305
Std Dev 1.01

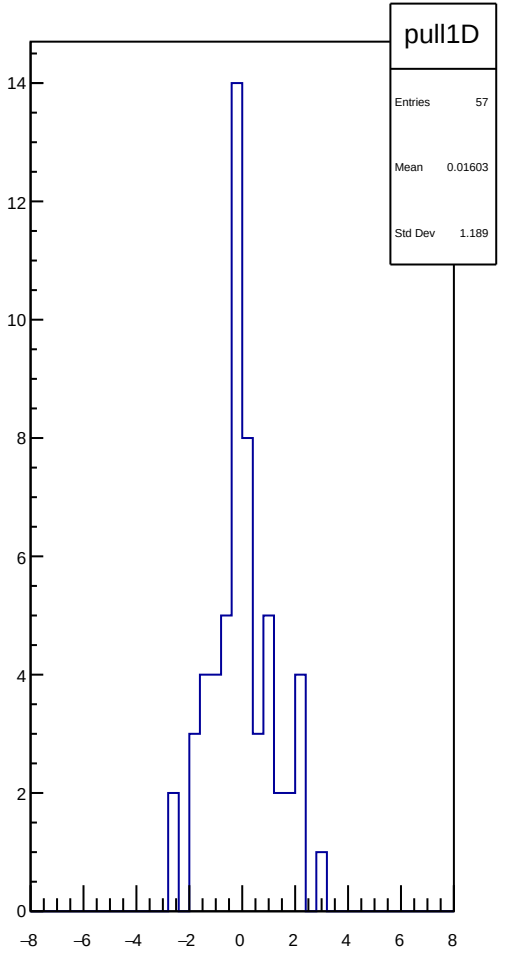

asym_dsl_correction_rms vs run
χ² / ndf 3.034e+04 / 56
p0 661.1 ± 0.643
900
800
700
600
500

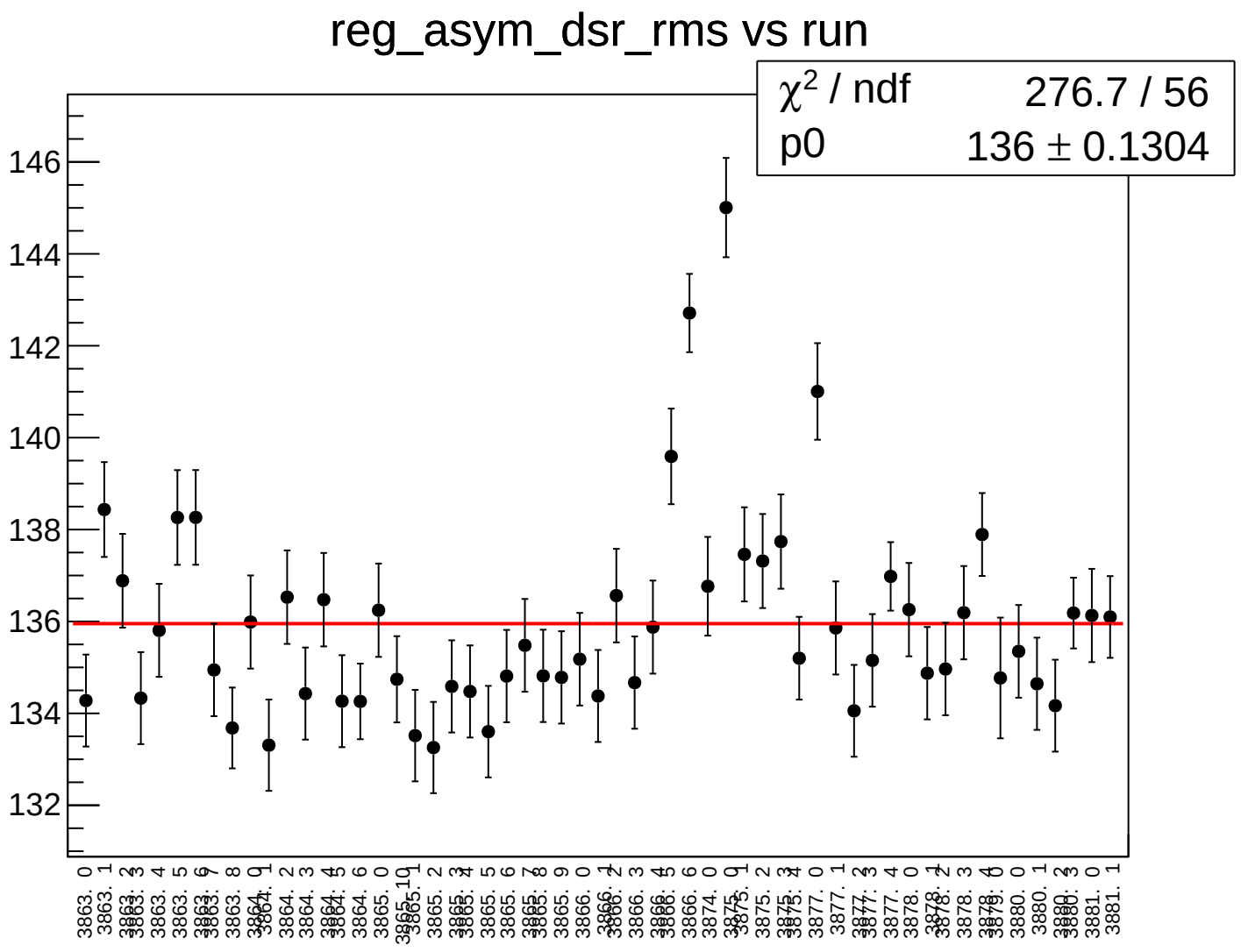

asym_dsl_mean vs run
χ^2 / ndf 53.38 / 56
p0 650.5 ± 931.3
pull
Entries 57
Mean 169.5
Std Dev 145

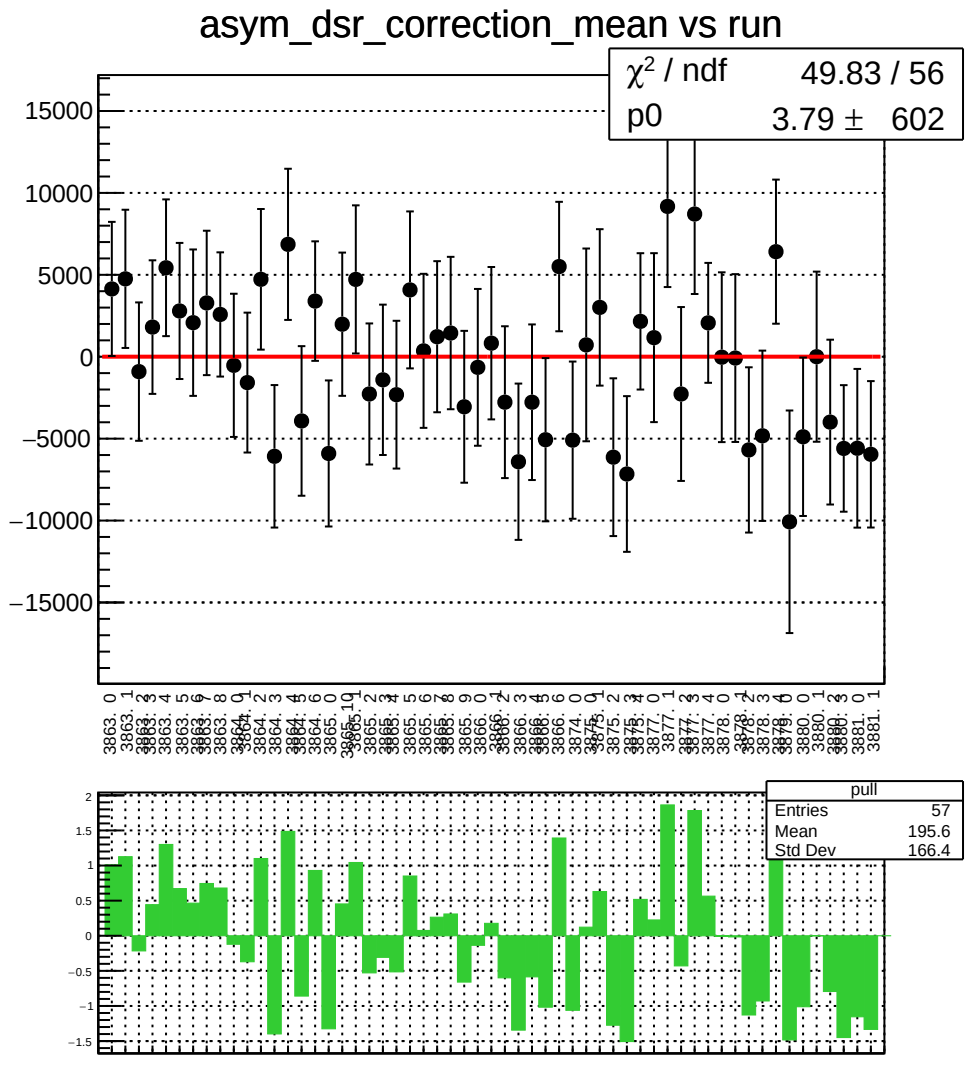

pull1D
Entries 57
Mean −0.02293
Std Dev 0.9674

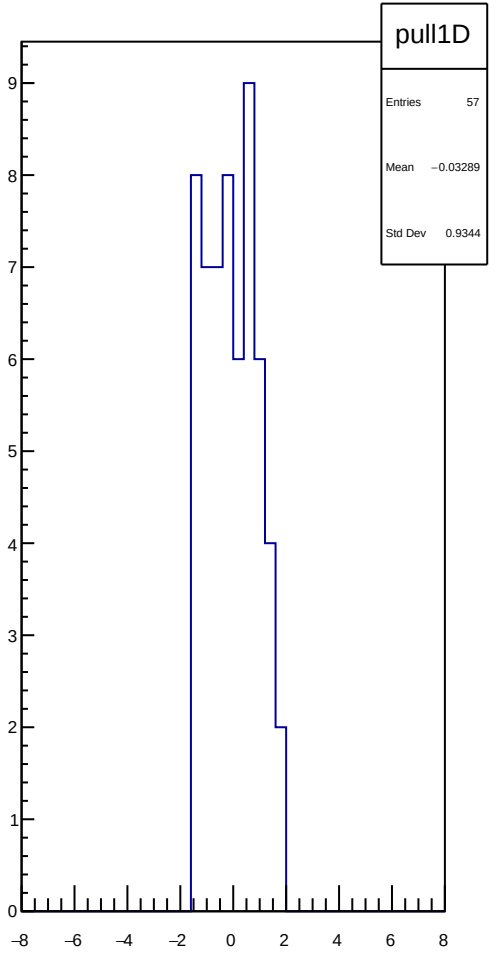

asym_dsl_rms vs run
χ² / ndf 2.787e+04 / 56
p0 677.9 ± 0.6585
950
900
850
800
750
700
650
600
550
500

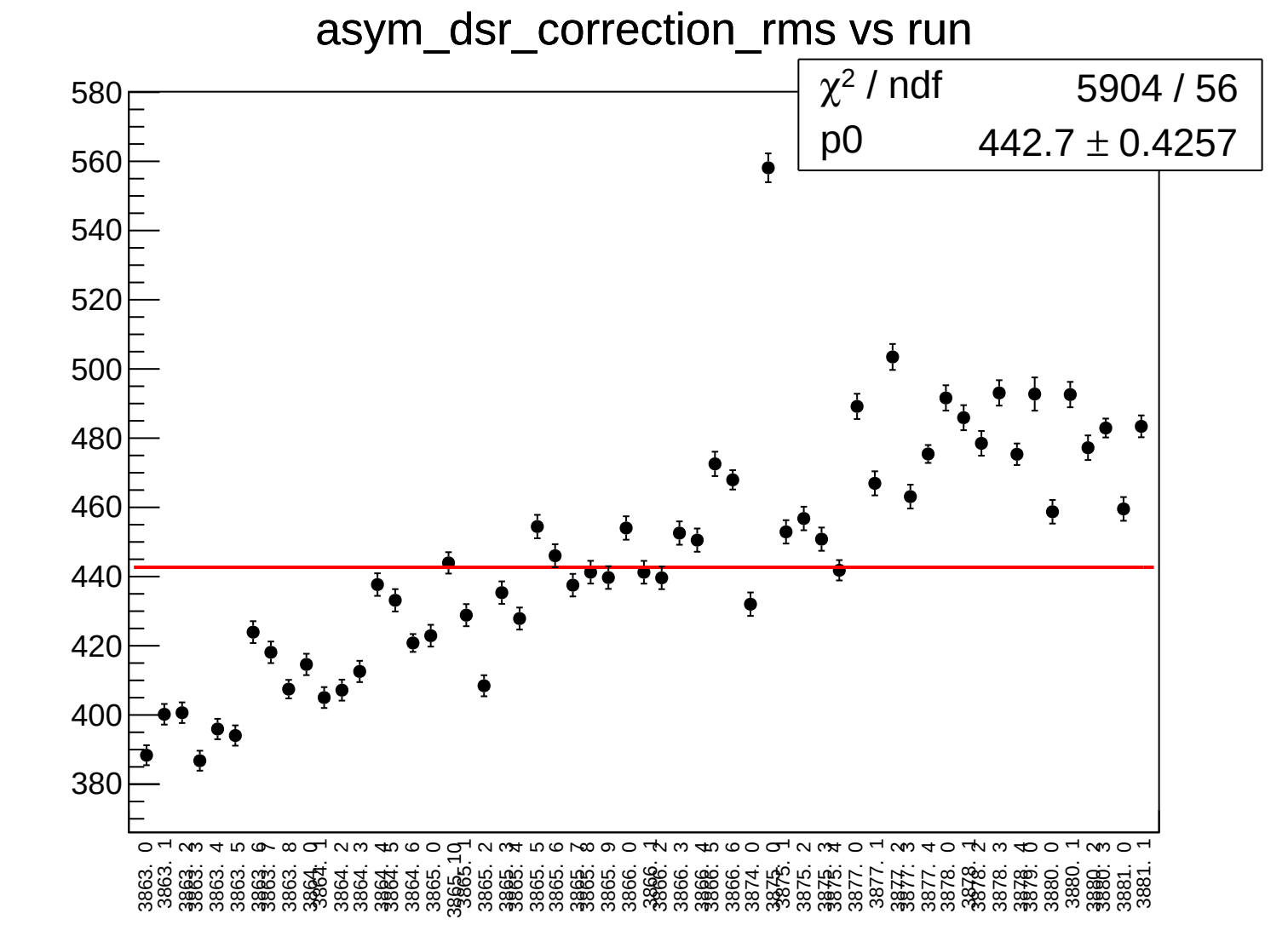

reg_asym_dsr_mean vs run
χ^2 / ndf 80.61 / 56
p0 247.9 ± 184.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 57
Mean −230.1
Std Dev 260.2
3
2
1
0
−1
−2

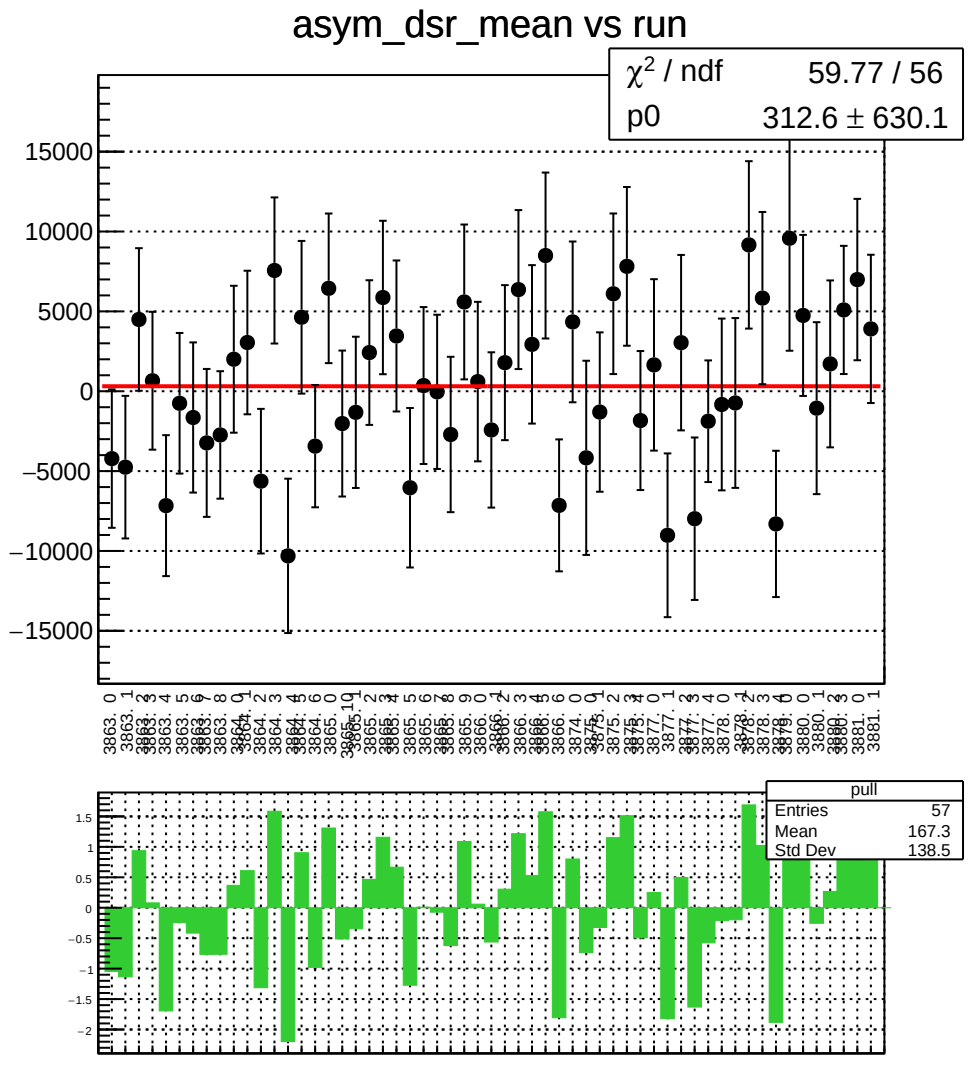

pull1D
Entries 57
Mean 0.01603
Std Dev 1.189
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

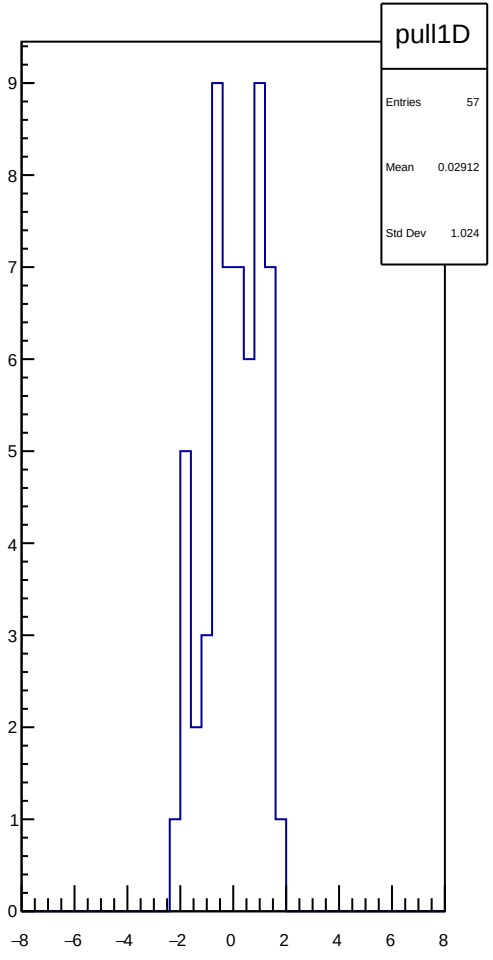

reg_asym_dsr_rms vs run
χ^2 / ndf 276.7 / 56
p0 136 ± 0.1304
146
144
142
140
138
136
134
132

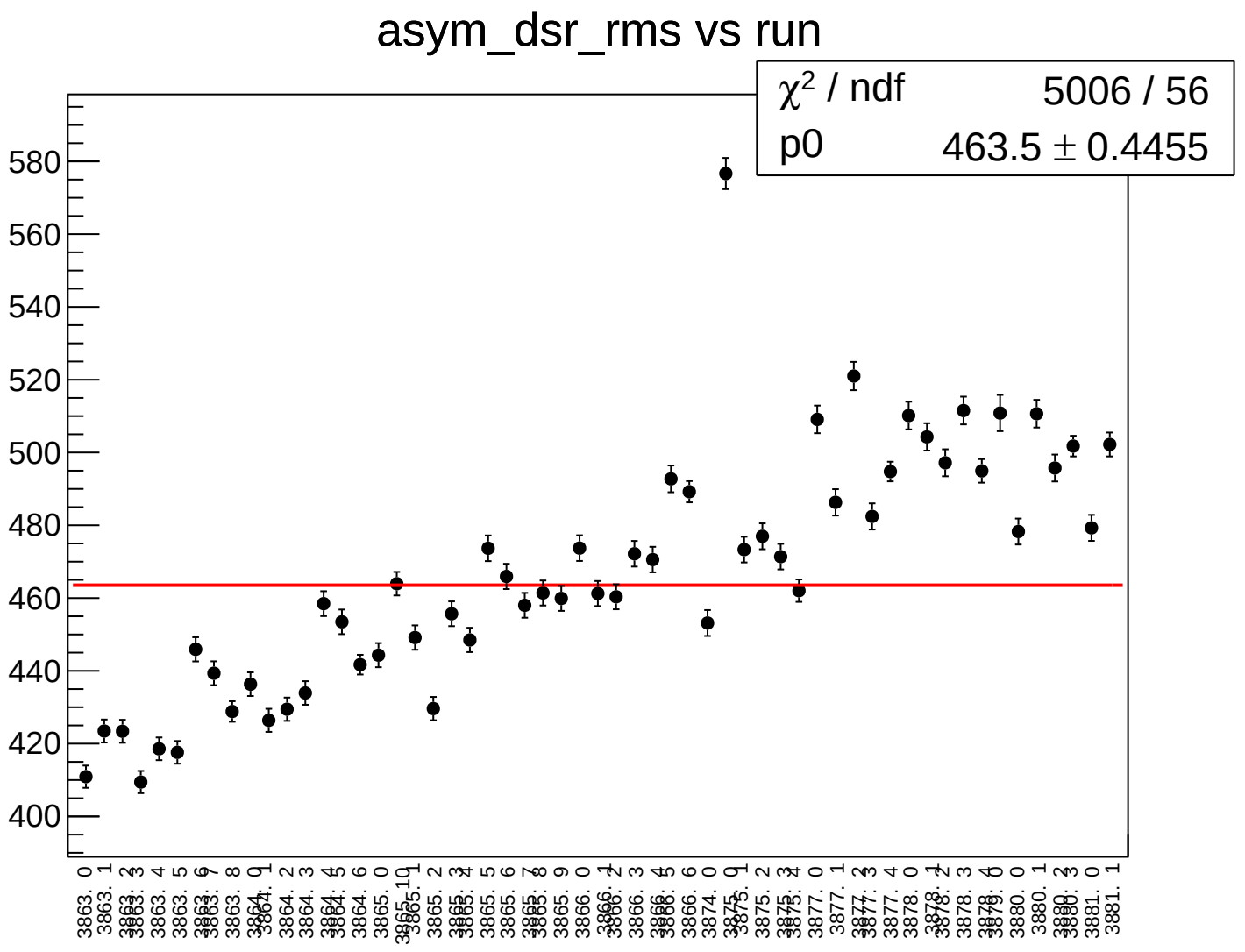

asym_dsr_correction_mean vs run
χ² / ndf 49.83 / 56
p0 3.79 ± 602
pull
Entries 57
Mean 195.6
Std Dev 166.4

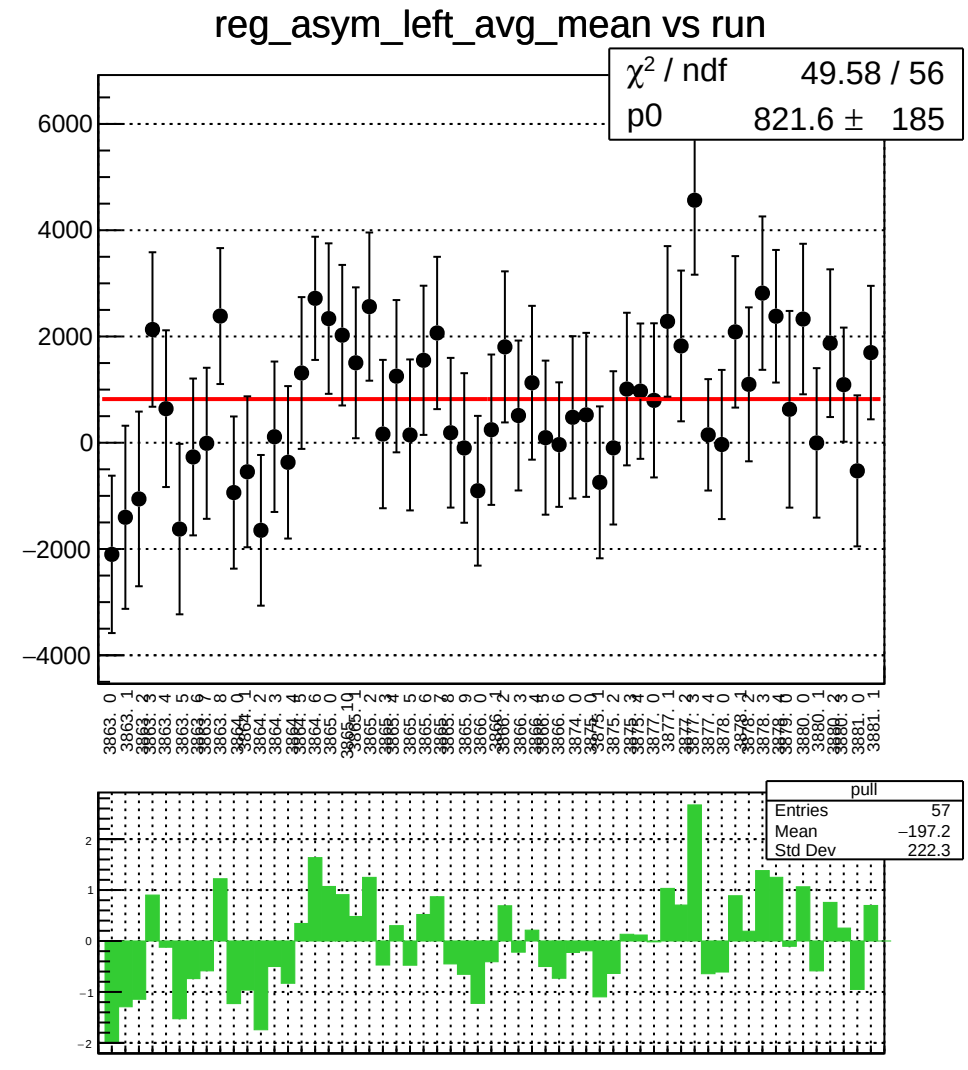

pull1D
Entries 57
Mean −0.03289
Std Dev 0.9344

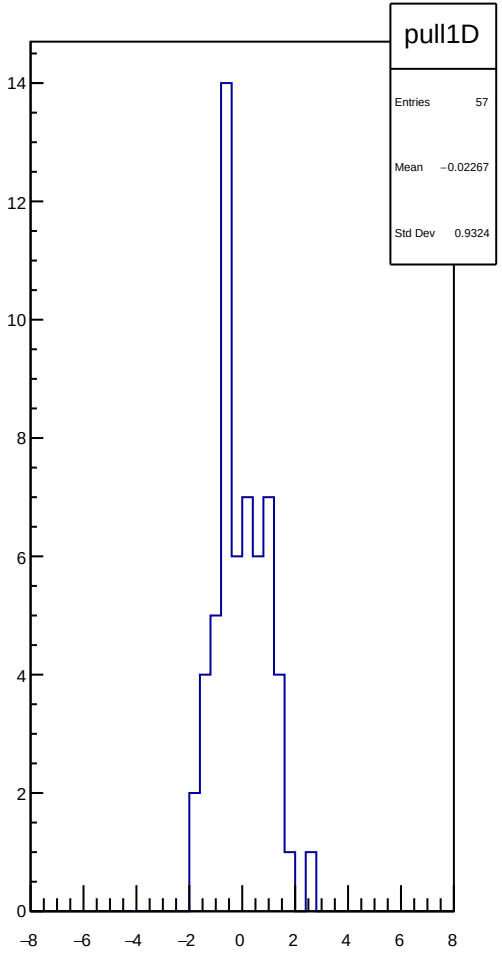

asym_dsr_correction_rms vs run
χ² / ndf 5904 / 56
p0 442.7 ± 0.4257
580
560
540
520
500
480
460
440
420
400
380

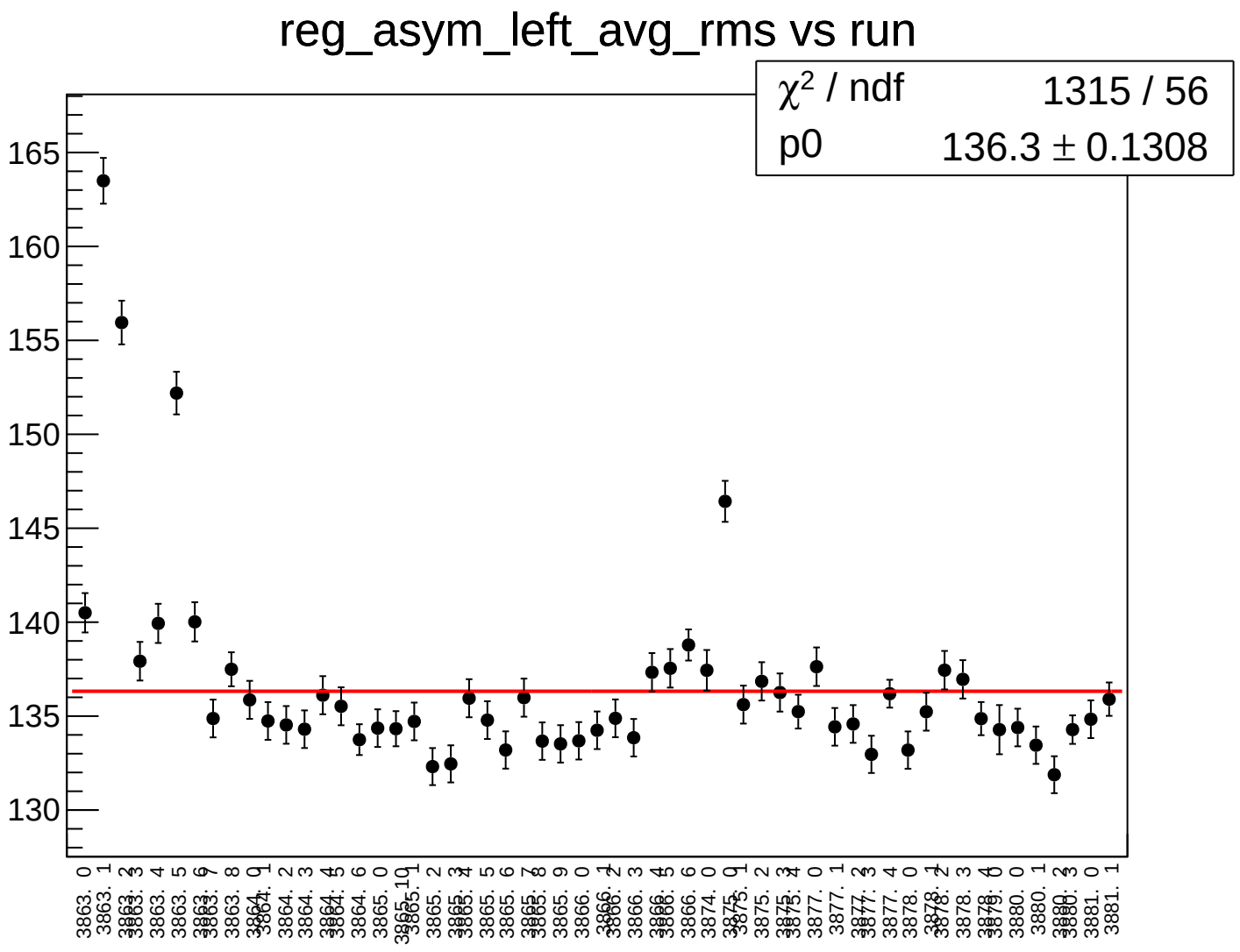

asym_dsr_mean vs run
χ² / ndf 59.77 / 56
p0 312.6 ± 630.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 57
Mean 167.3
Std Dev 138.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

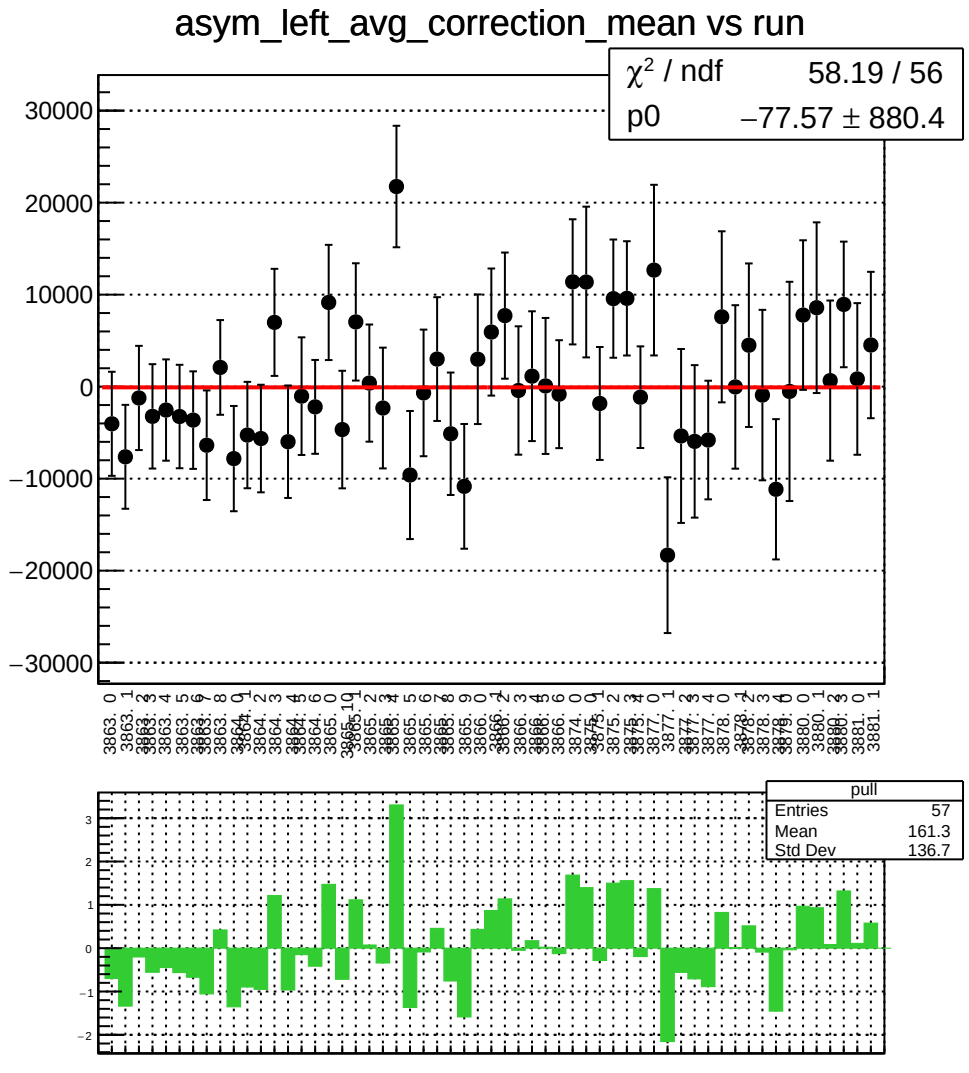

pull1D
Entries 57
Mean 0.02912
Std Dev 1.024
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

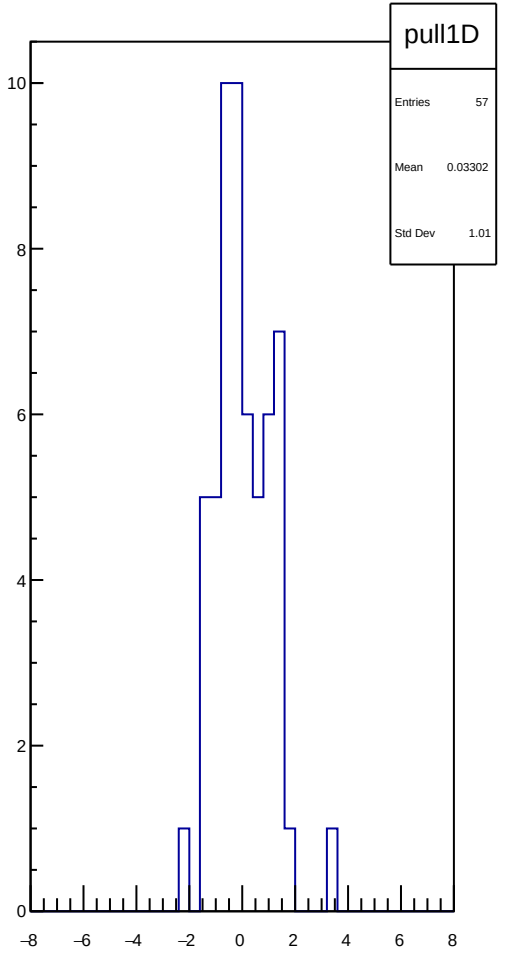

asym_dsr_rms vs run
χ² / ndf 5006 / 56
p0 463.5 ± 0.4455
580
560
540
520
500
480
460
440
420
400
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

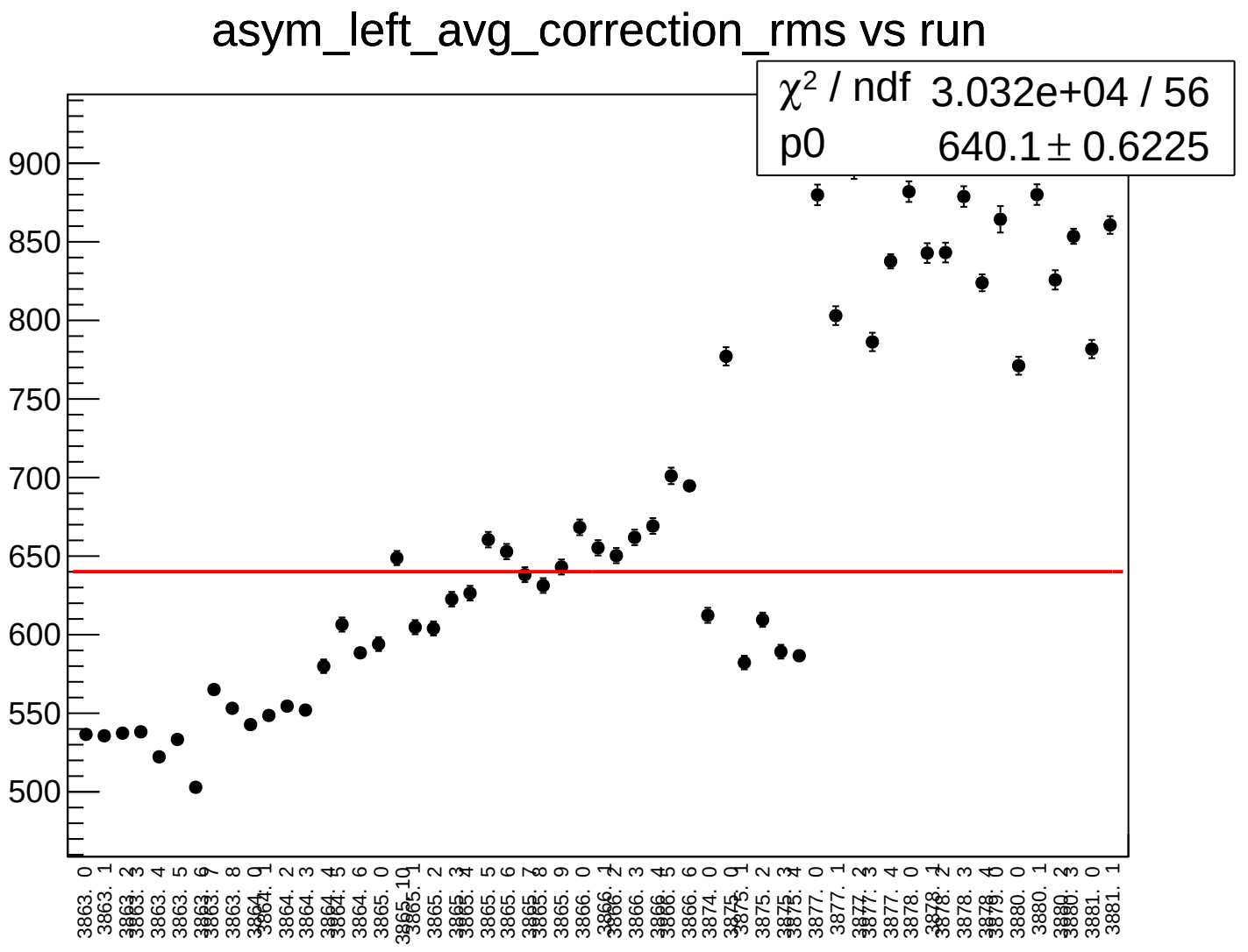

reg_asym_left_avg_mean vs run
χ² / ndf 49.58 / 56
p0 821.6 ± 185
pull
Entries 57
Mean −197.2
Std Dev 222.3

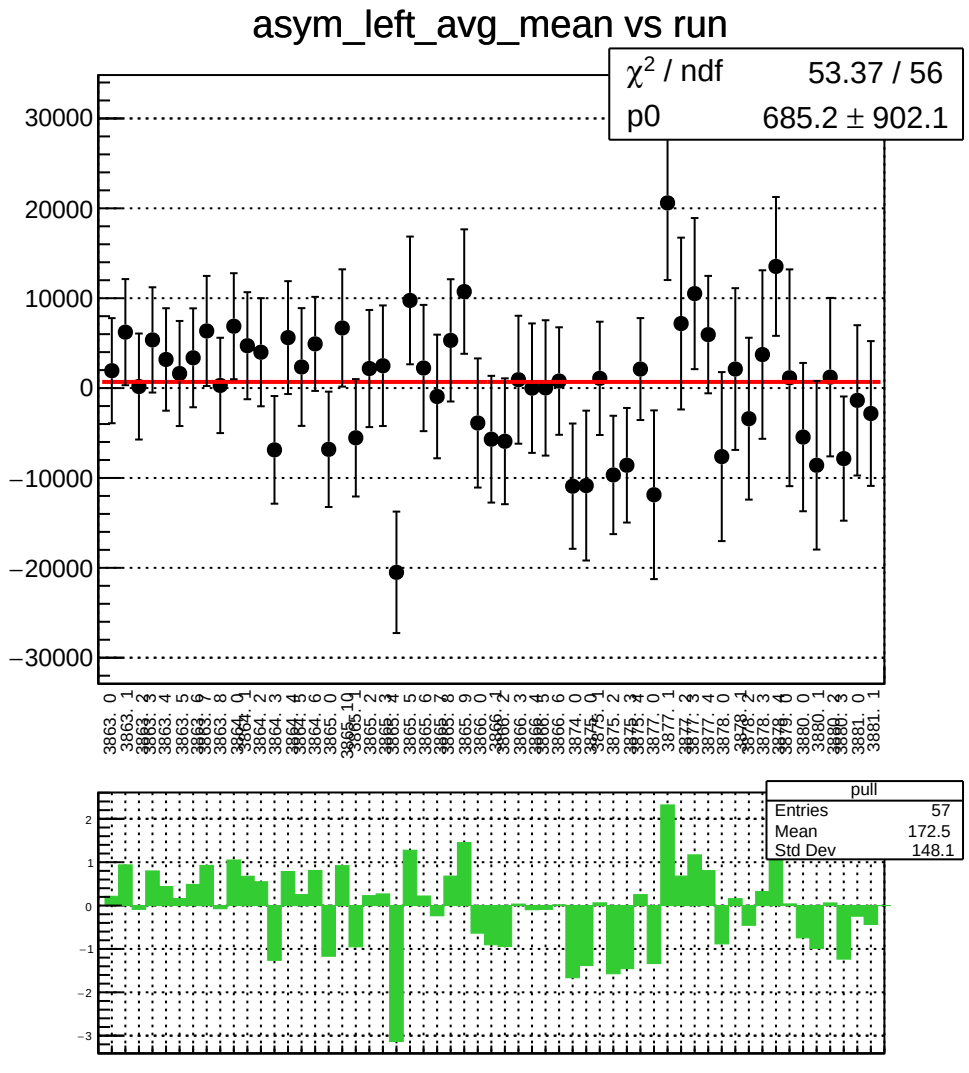

pull1D
Entries 57
Mean −0.02267
Std Dev 0.9324

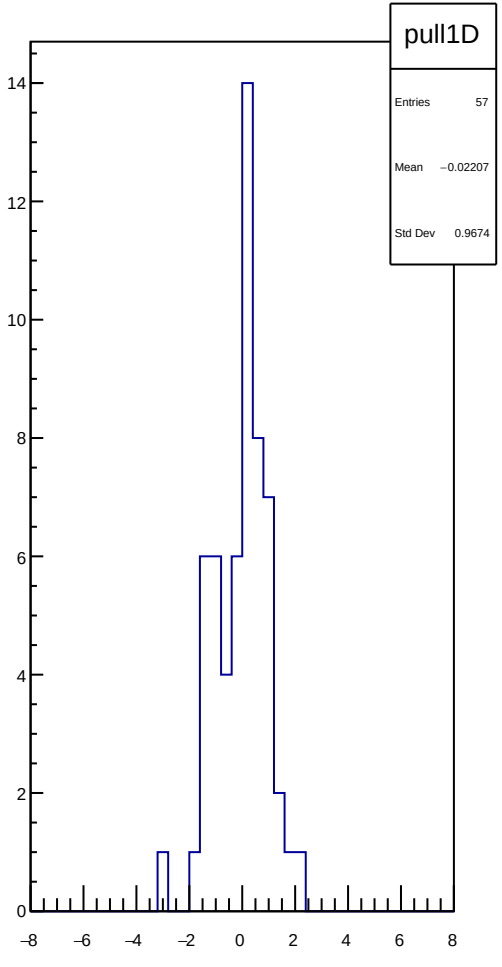

reg_asym_left_avg_rms vs run
χ² / ndf 1315 / 56
p0 136.3 ± 0.1308
165
160
155
150
145
140
135
130

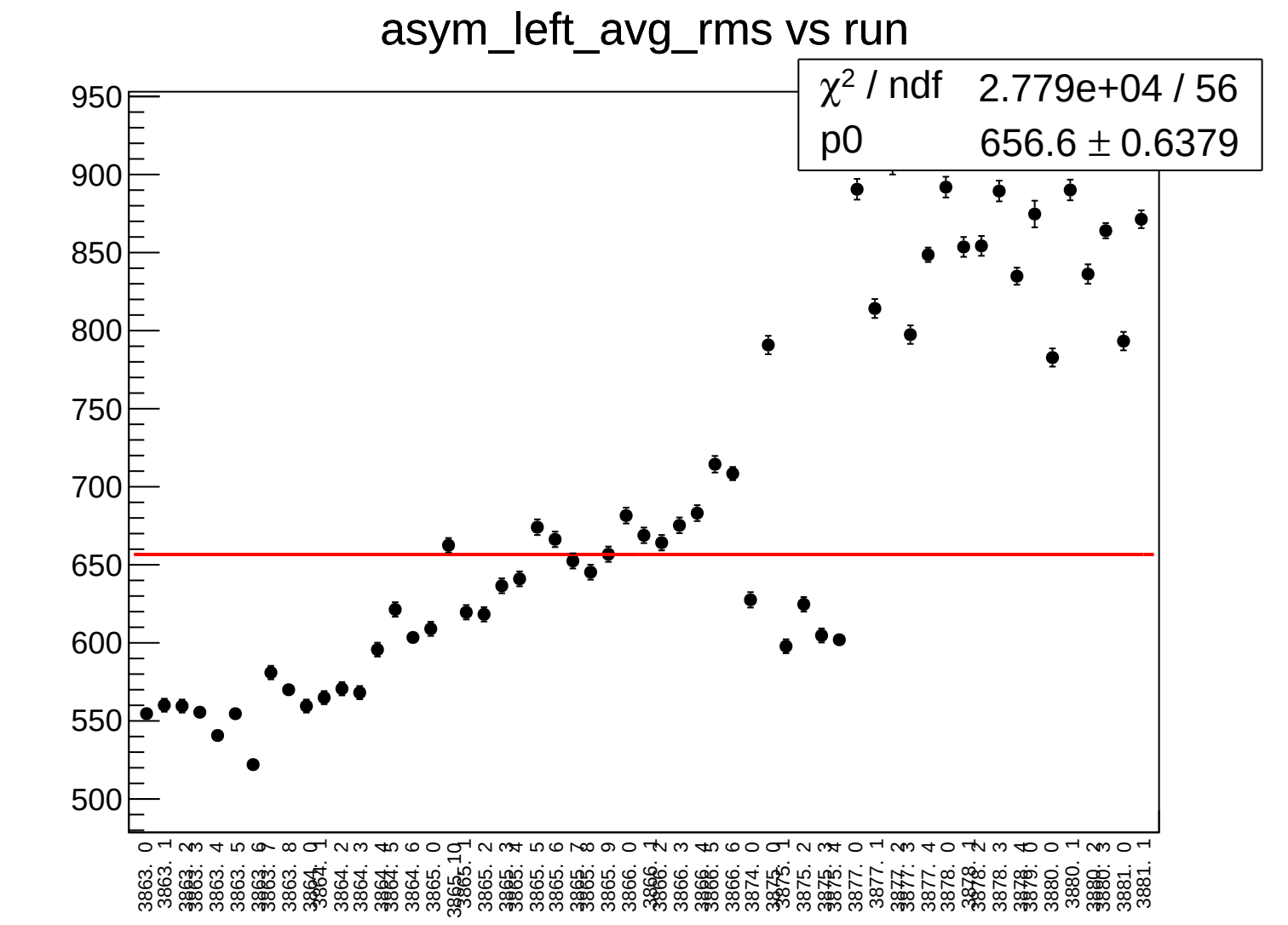

asym_left_avg_correction_mean vs run
χ² / ndf 58.19 / 56
p0 −77.57 ± 880.4
pull
Entries 57
Mean 161.3
Std Dev 136.7

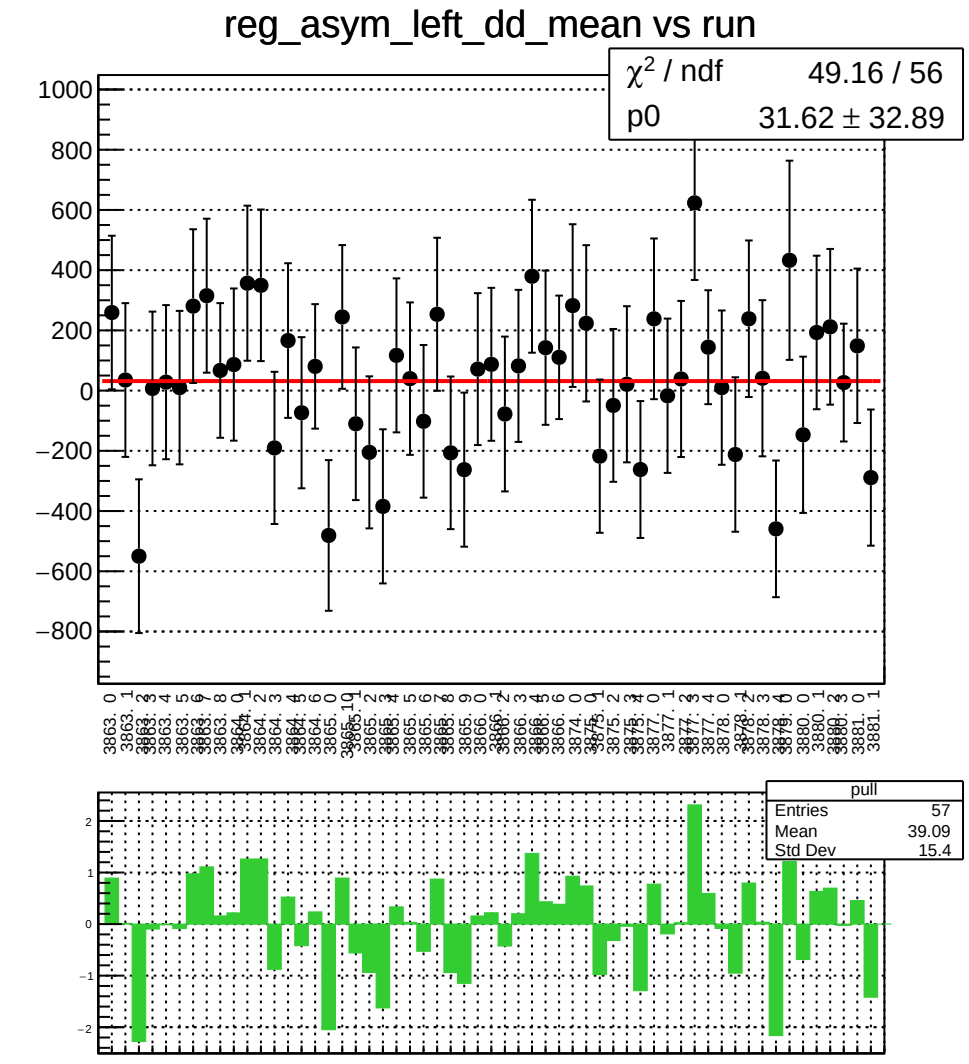

pull1D
Entries 57
Mean 0.03302
Std Dev 1.01

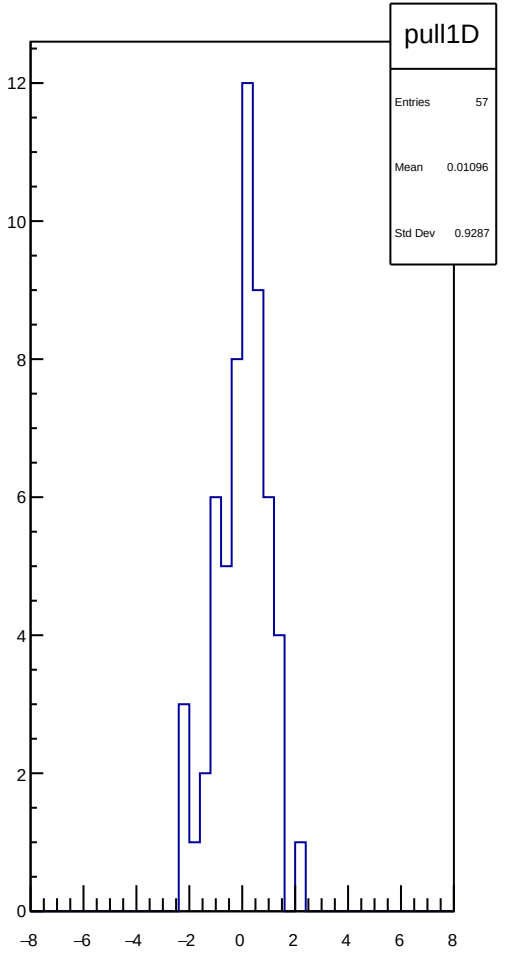

asym_left_avg_correction_rms vs run
χ² / ndf 3.032e+04 / 56
p0 640.1 ± 0.6225
900
850
800
750
700
650
600
550
500

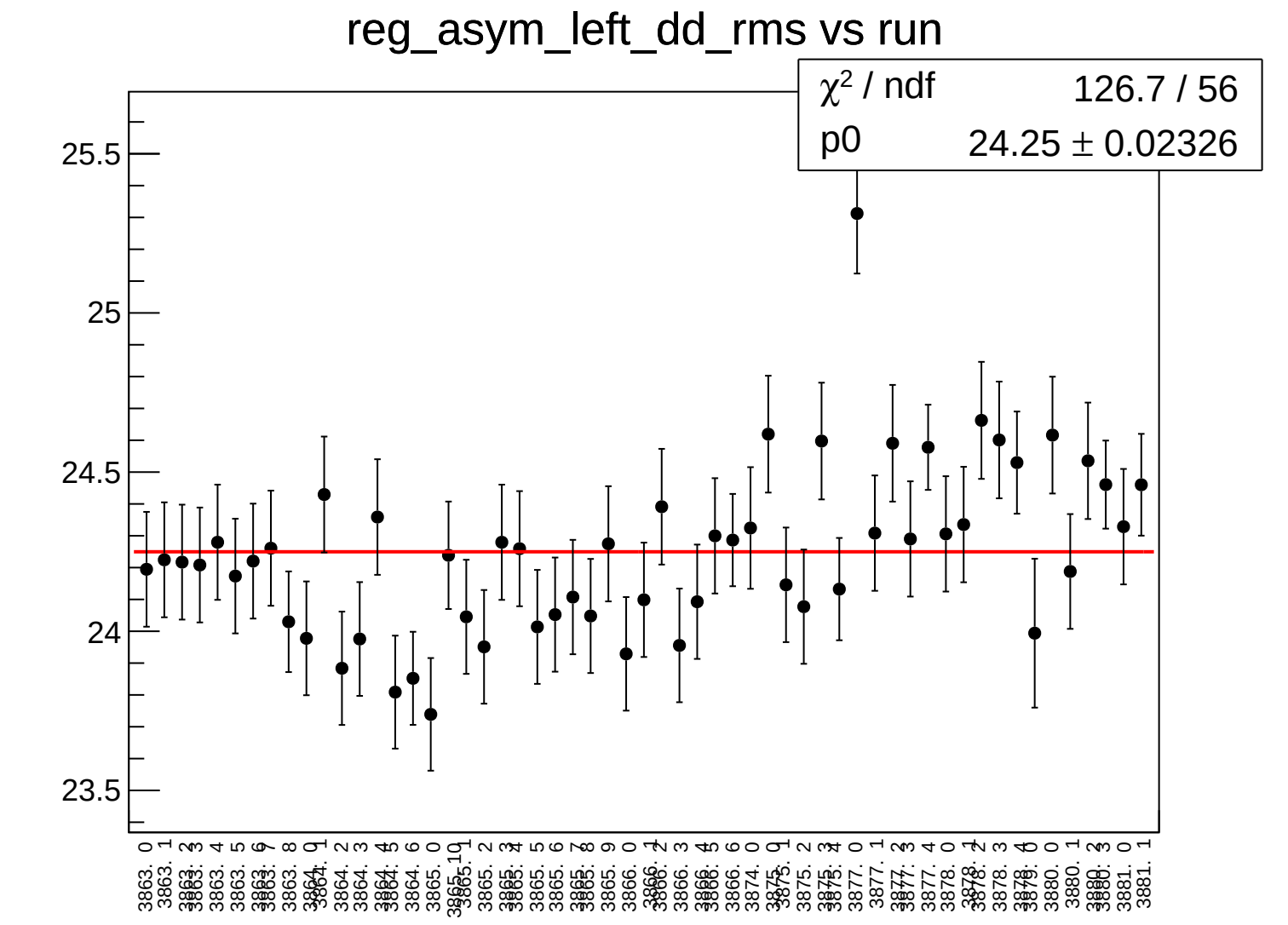

asym_left_avg_mean vs run
χ² / ndf 53.37 / 56
p0 685.2 ± 902.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 57
Mean 172.5
Std Dev 148.1
2
1
0
−1
−2
−3

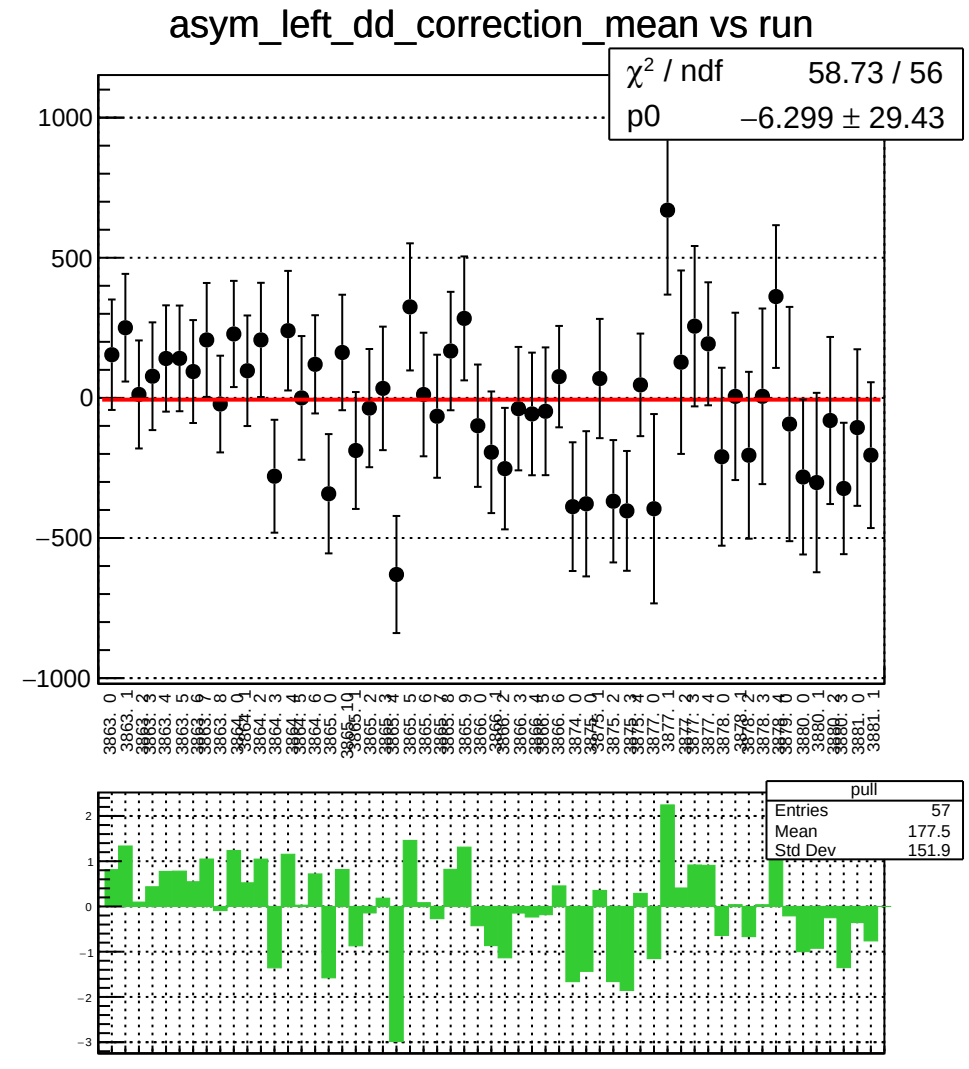

pull1D
Entries 57
Mean −0.02207
Std Dev 0.9674
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

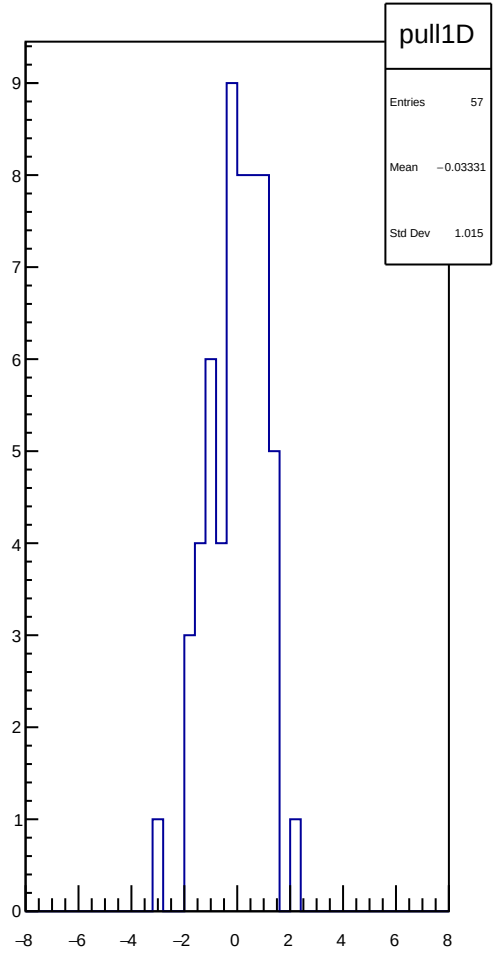

asym_left_avg_rms vs run
χ² / ndf 2.779e+04 / 56
p0 656.6 ± 0.6379
950
900
850
800
750
700
650
600
550
500

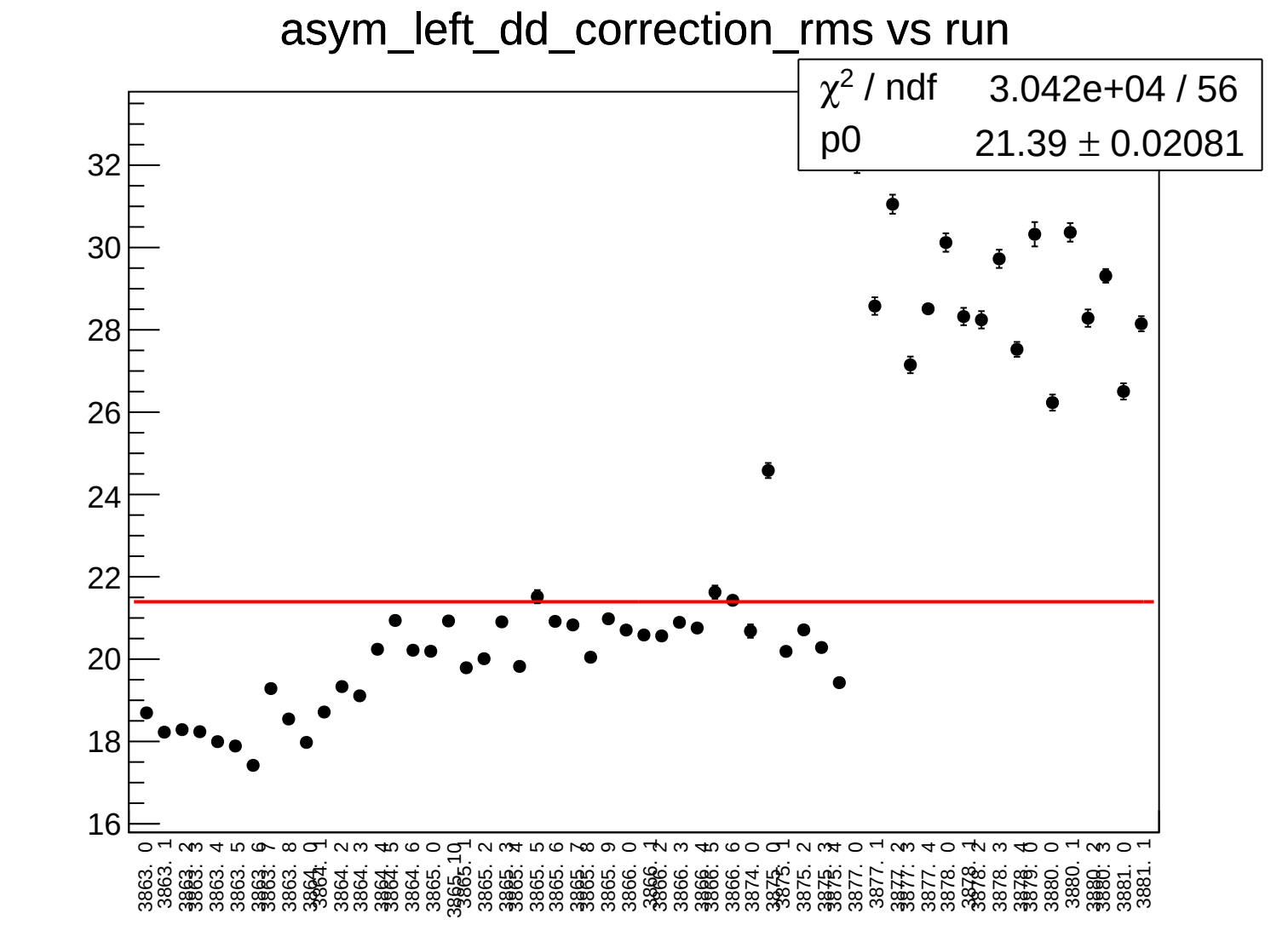

reg_asym_left_dd_mean vs run
χ² / ndf 49.16 / 56
p0 31.62 ± 32.89
pull
Entries 57
Mean 39.09
Std Dev 15.4

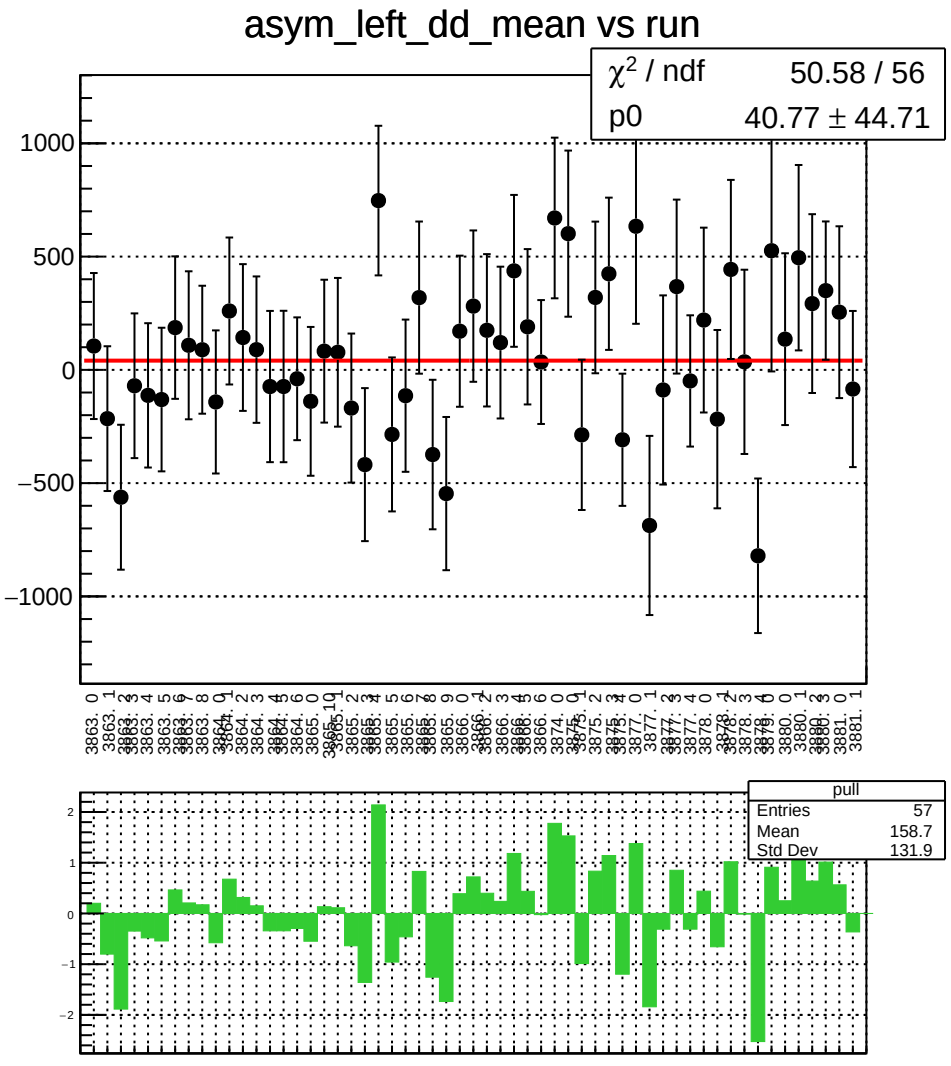

pull1D
Entries 57
Mean 0.01096
Std Dev 0.9287

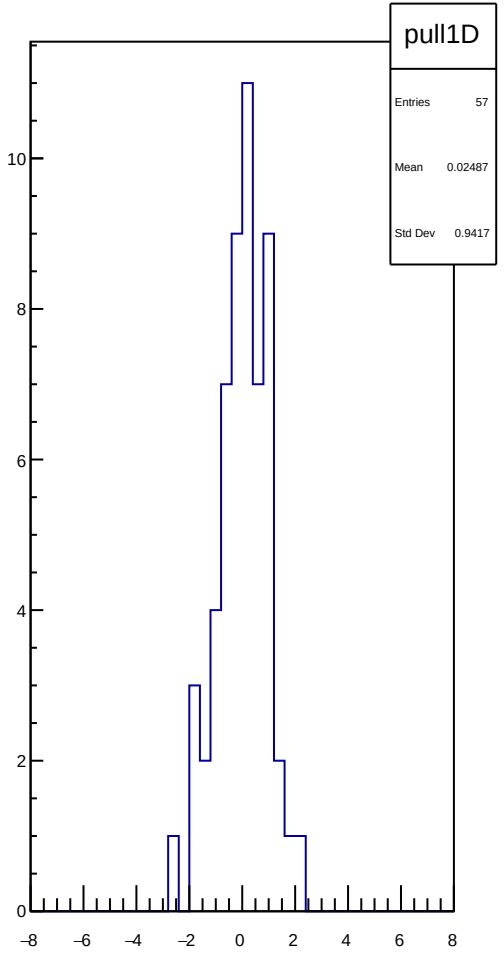

reg_asym_left_dd_rms vs run
χ^2 / ndf 126.7 / 56
p0 24.25 ± 0.02326
25.5
25
24.5
24
23.5

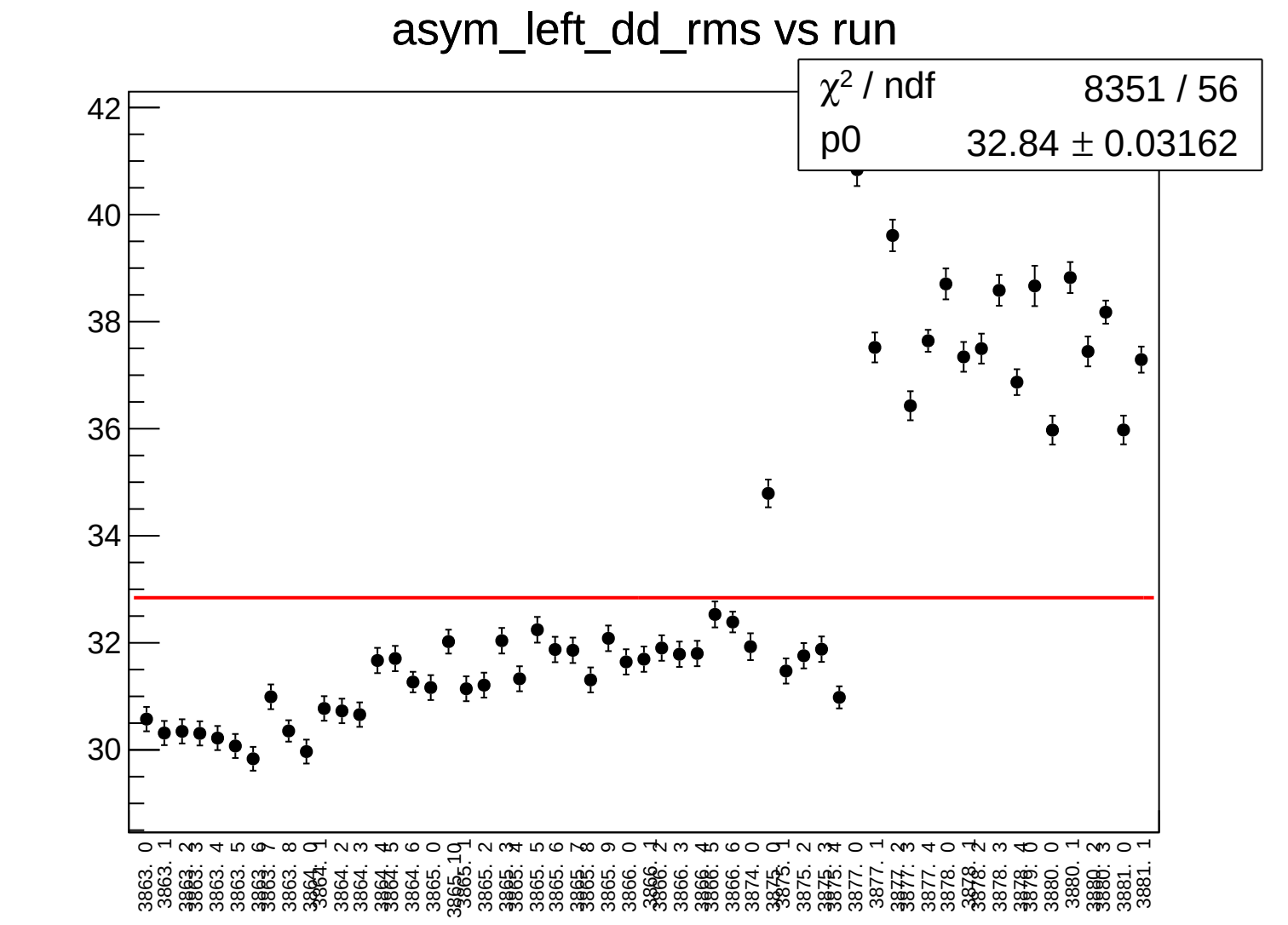

asym_left_dd_correction_mean vs run
χ² / ndf 58.73 / 56
p0 −6.299 ± 29.43
pull
Entries 57
Mean 177.5
Std Dev 151.9

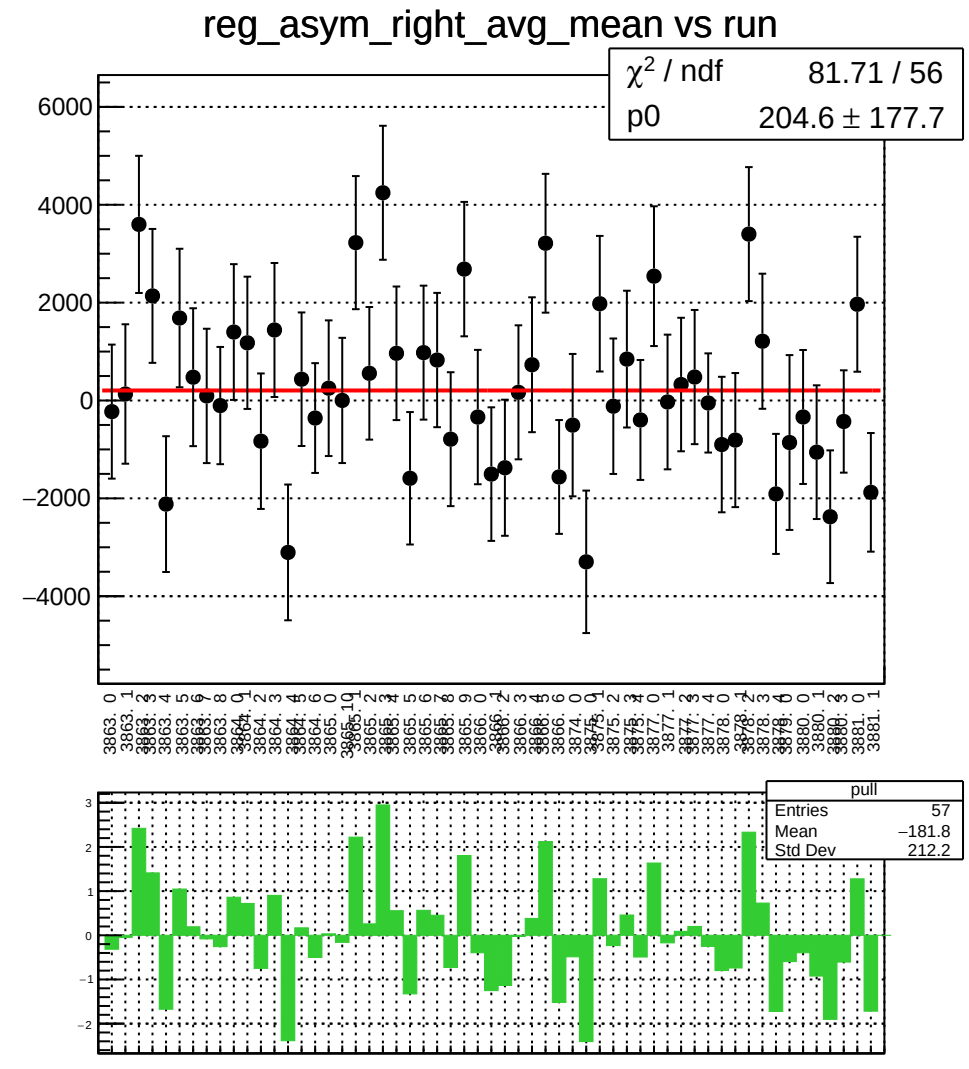

pull1D
Entries 57
Mean −0.03331
Std Dev 1.015

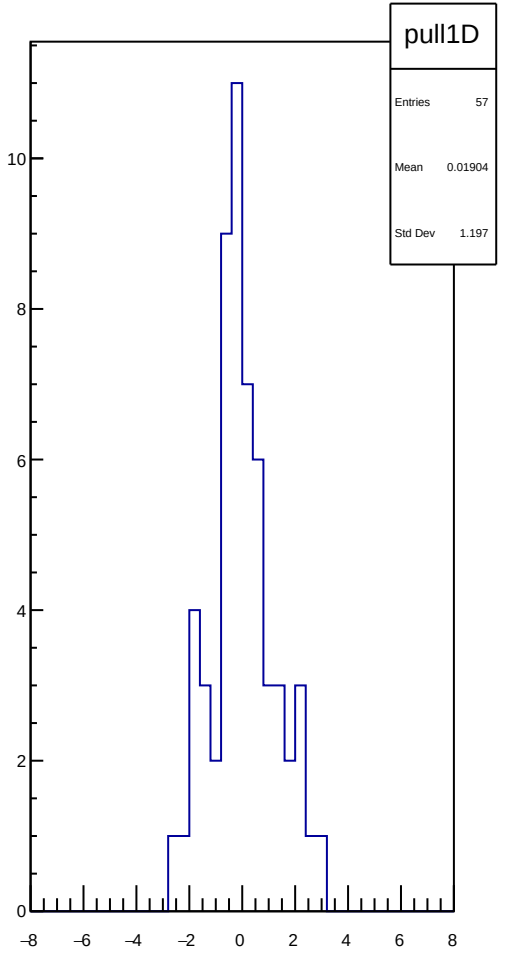

asym_left_dd_correction_rms vs run
χ² / ndf 3.042e+04 / 56
p0 21.39 ± 0.02081
32
30
28
26
24
22
20
18
16
3863. 0
3863. 1
3863. 4
3863. 5
3863. 8
3864. 2
3864. 3
3865. 0
3865. 2
3865. 5
3865. 6
3865. 9
3866. 0
3866. 3
3866. 6
3874. 0
3875. 1
3875. 2
3877. 0
3877. 1
3877. 4
3878. 0
3878. 3
3880. 0
3880. 1
3881. 0
3881. 1

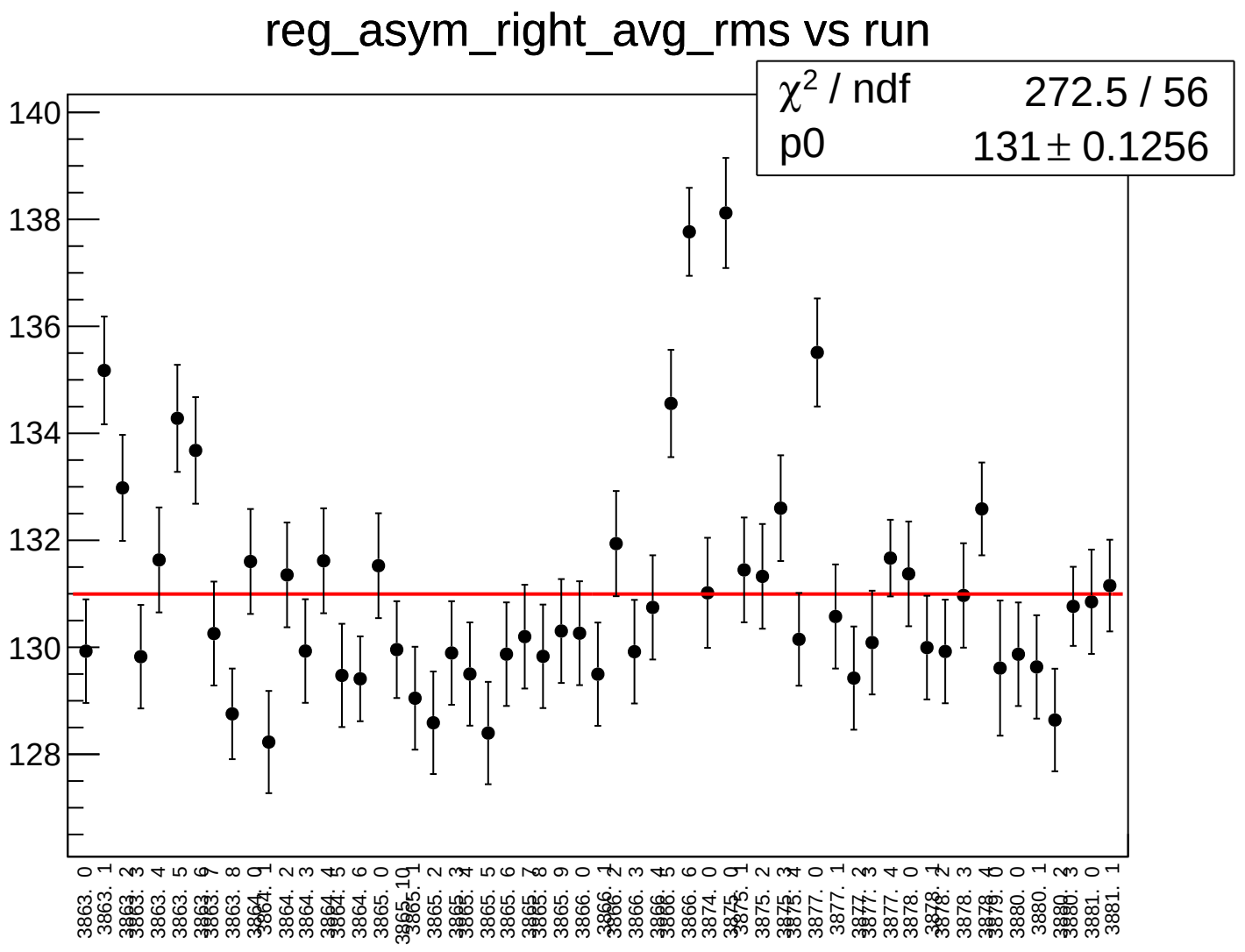

asym_left_dd_mean vs run
χ² / ndf 50.58 / 56
p0 40.77 ± 44.71
1000
500
0
−500
−1000
pull
Entries 57
Mean 158.7
Std Dev 131.9
2
1
0
−1
−2

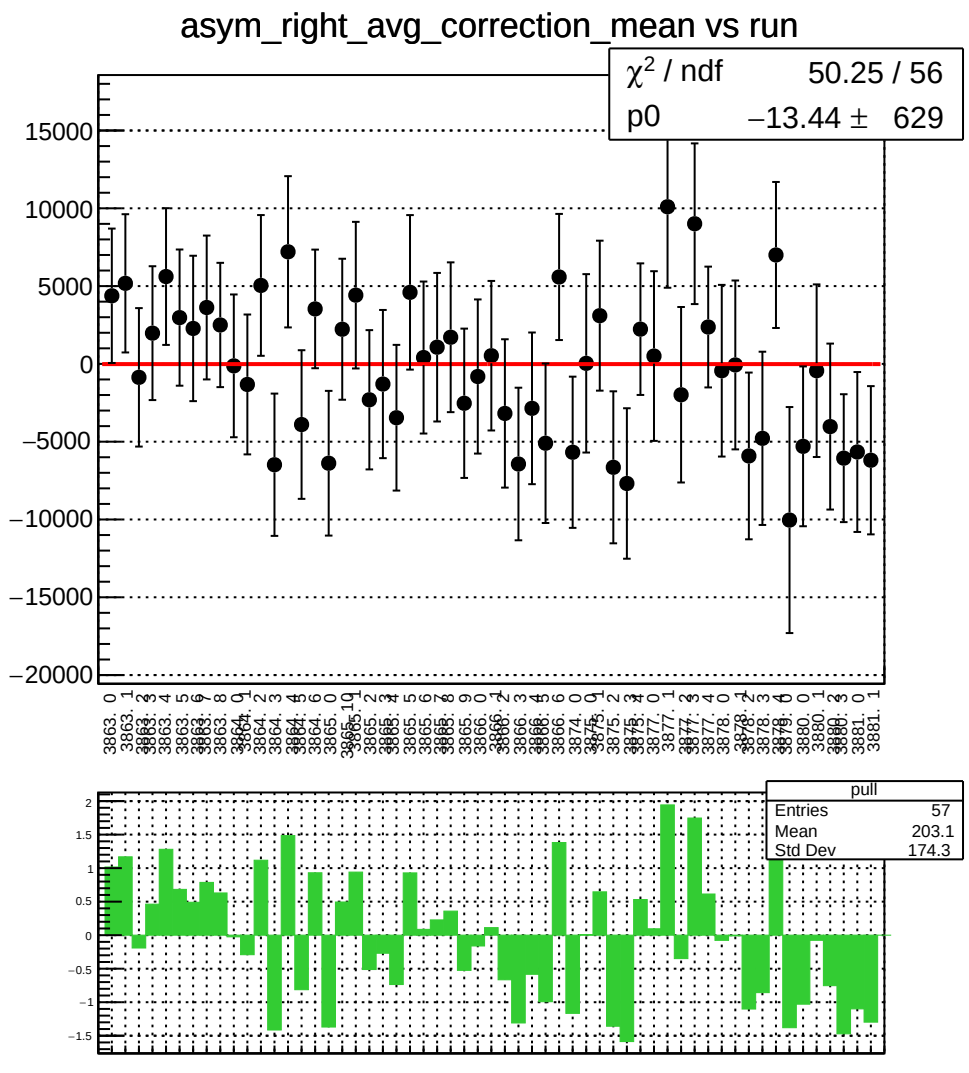

pull1D
Entries 57
Mean 0.02487
Std Dev 0.9417
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

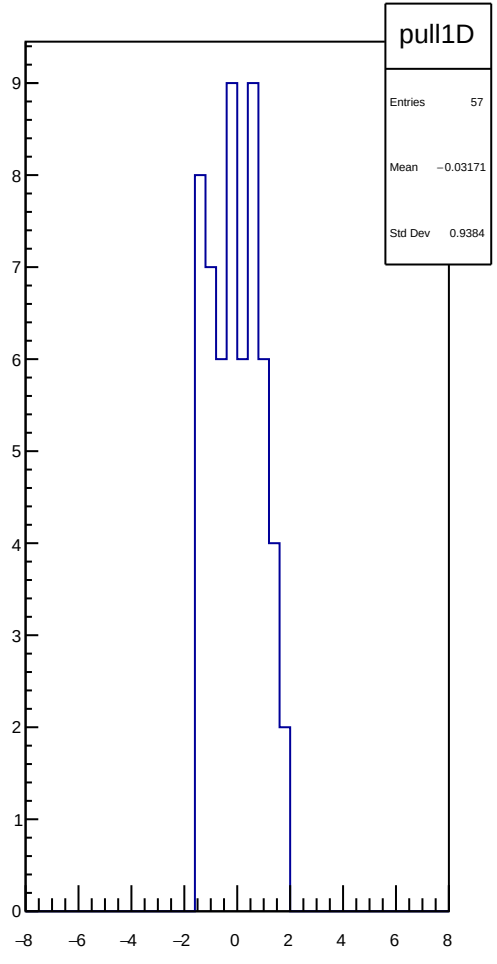

asym_left_dd_rms vs run
χ² / ndf 8351 / 56
p0 32.84 ± 0.03162
42
40
38
36
34
32
30

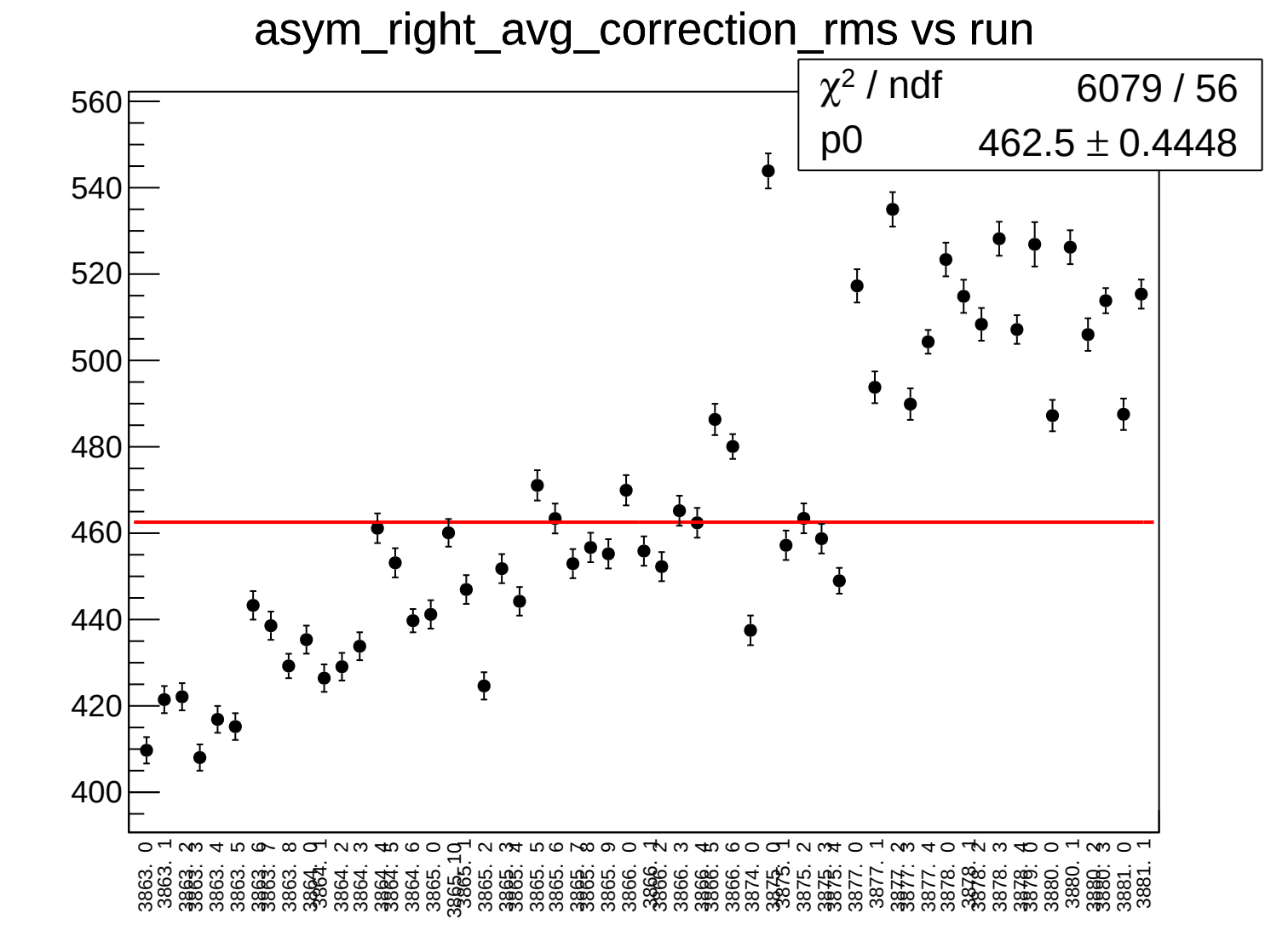

reg_asym_right_avg_mean vs run
χ² / ndf 81.71 / 56
p0 204.6 ± 177.7
pull
Entries 57
Mean −181.8
Std Dev 212.2

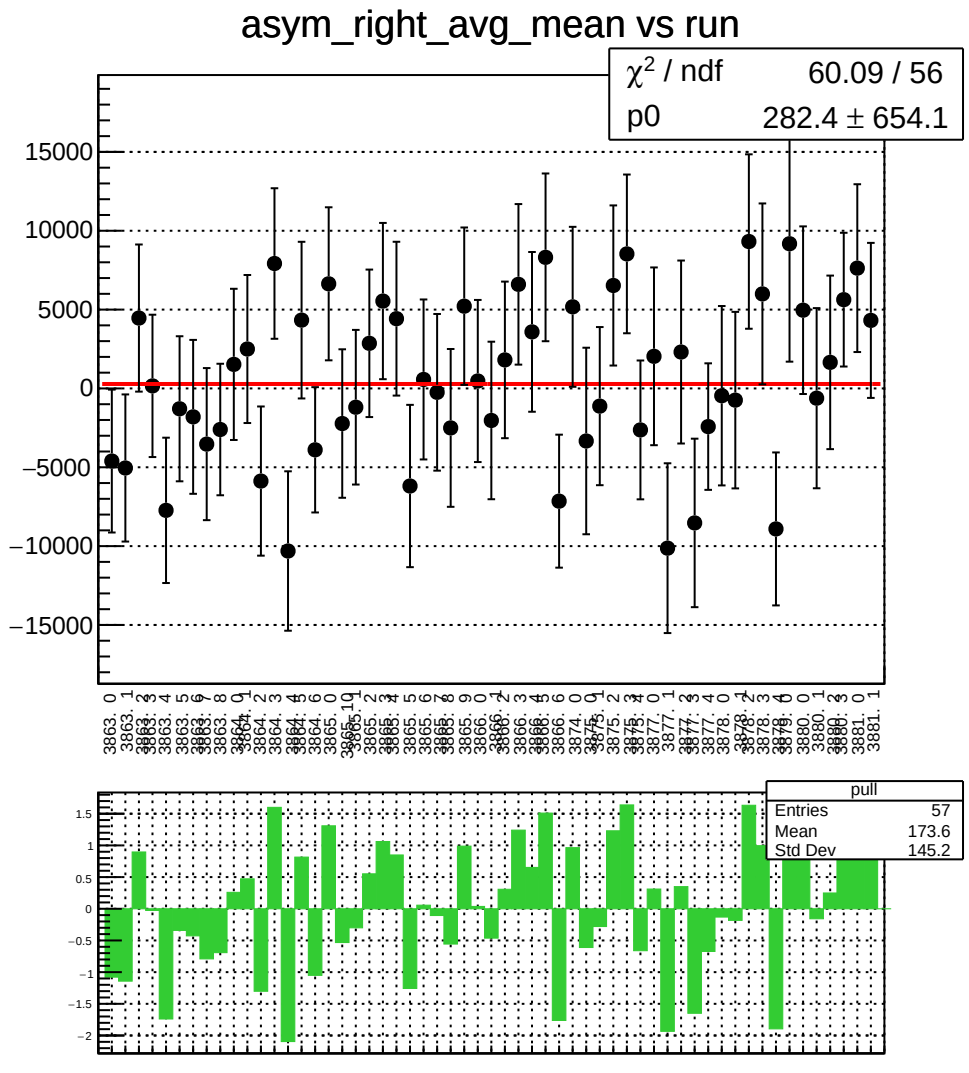

pull1D
Entries 57
Mean 0.01904
Std Dev 1.197

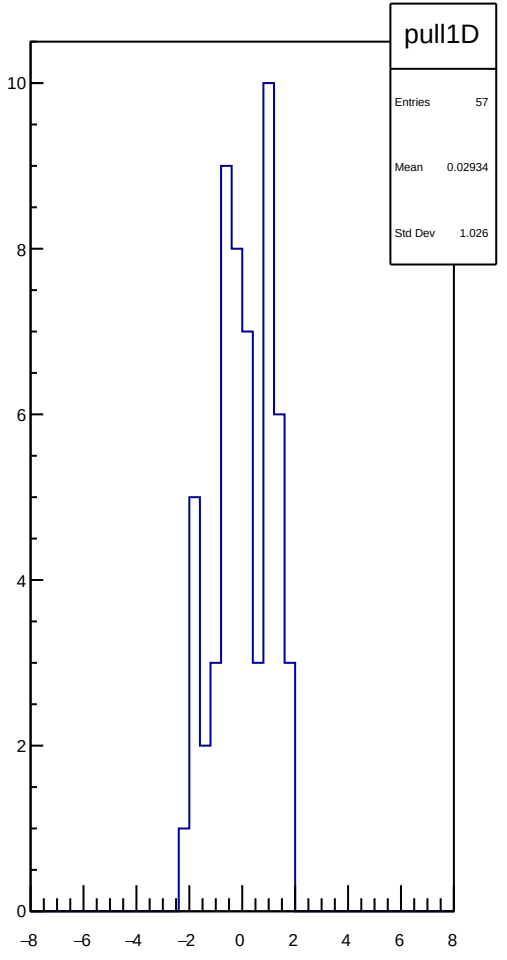

reg_asym_right_avg_rms vs run
χ² / ndf 272.5 / 56
p0 131 ± 0.1256
140
138
136
134
132
130
128
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

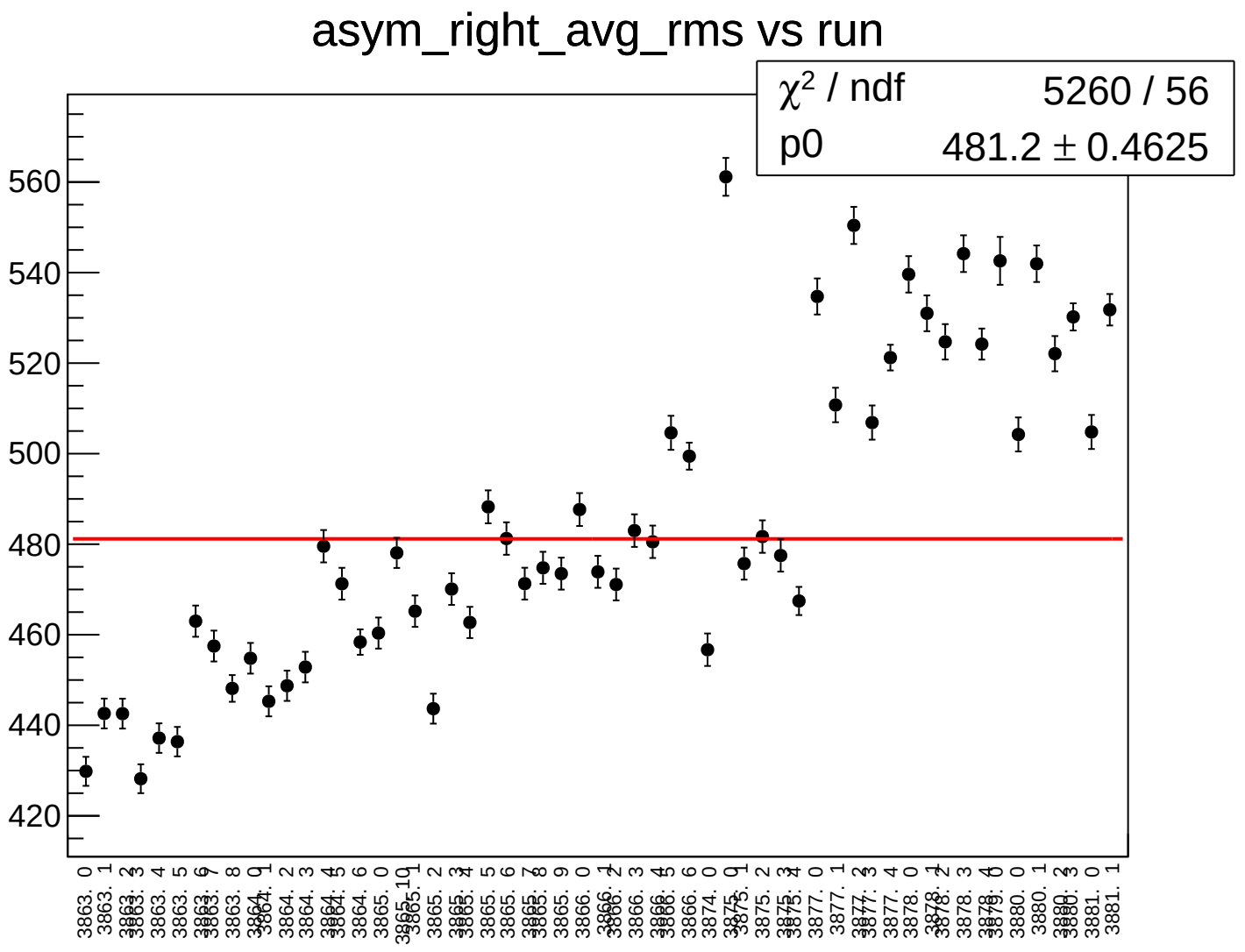

asym_right_avg_correction_mean vs run
χ² / ndf 50.25 / 56
p0 −13.44 ± 629
pull
Entries 57
Mean 203.1
Std Dev 174.3

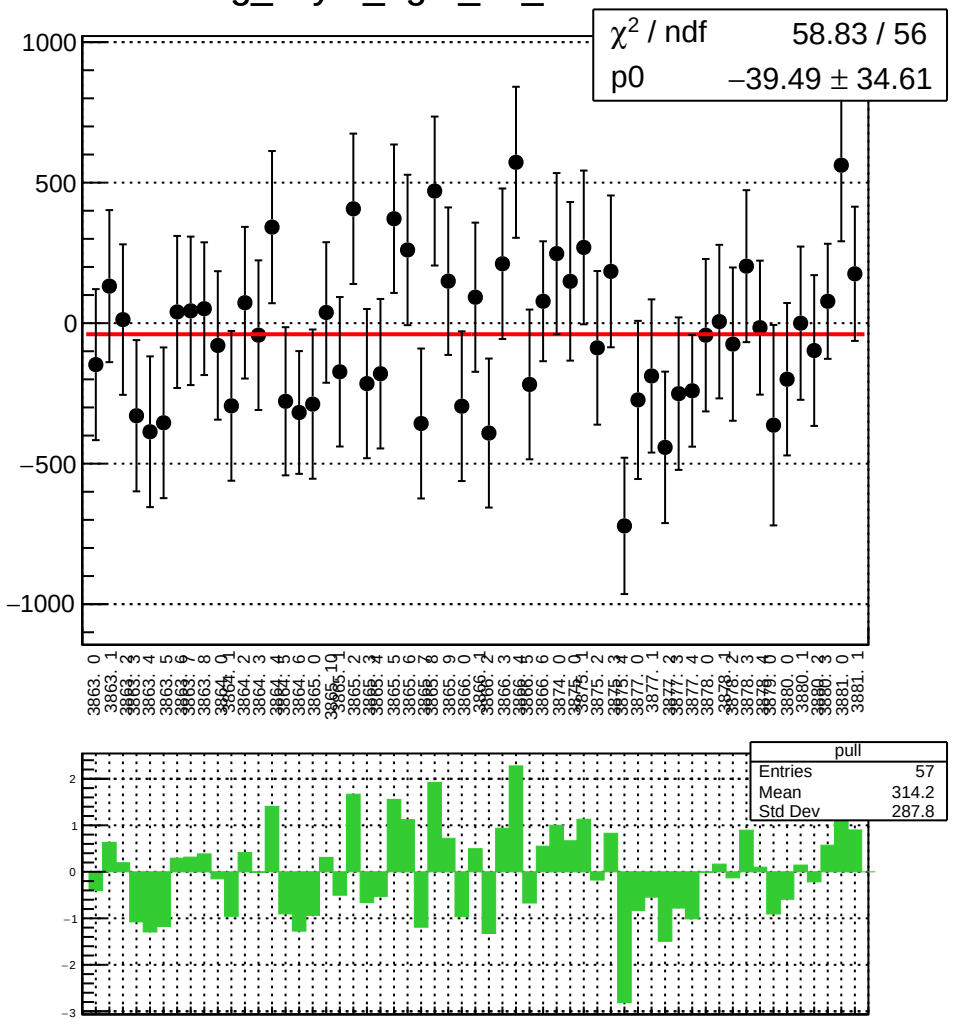

pull1D
Entries 57
Mean −0.03171
Std Dev 0.9384

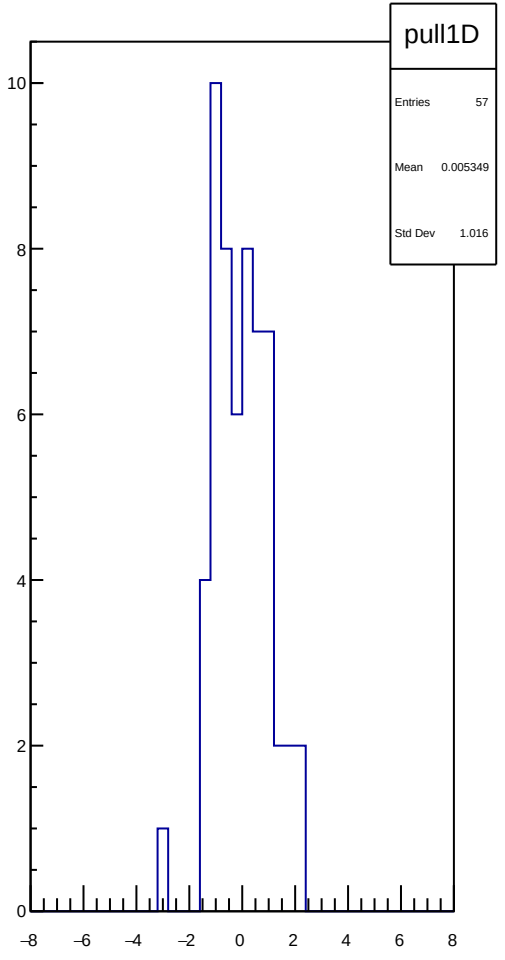

asym_right_avg_correction_rms vs run
χ² / ndf 6079 / 56
p0 462.5 ± 0.4448
560
540
520
500
480
460
440
420
400
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

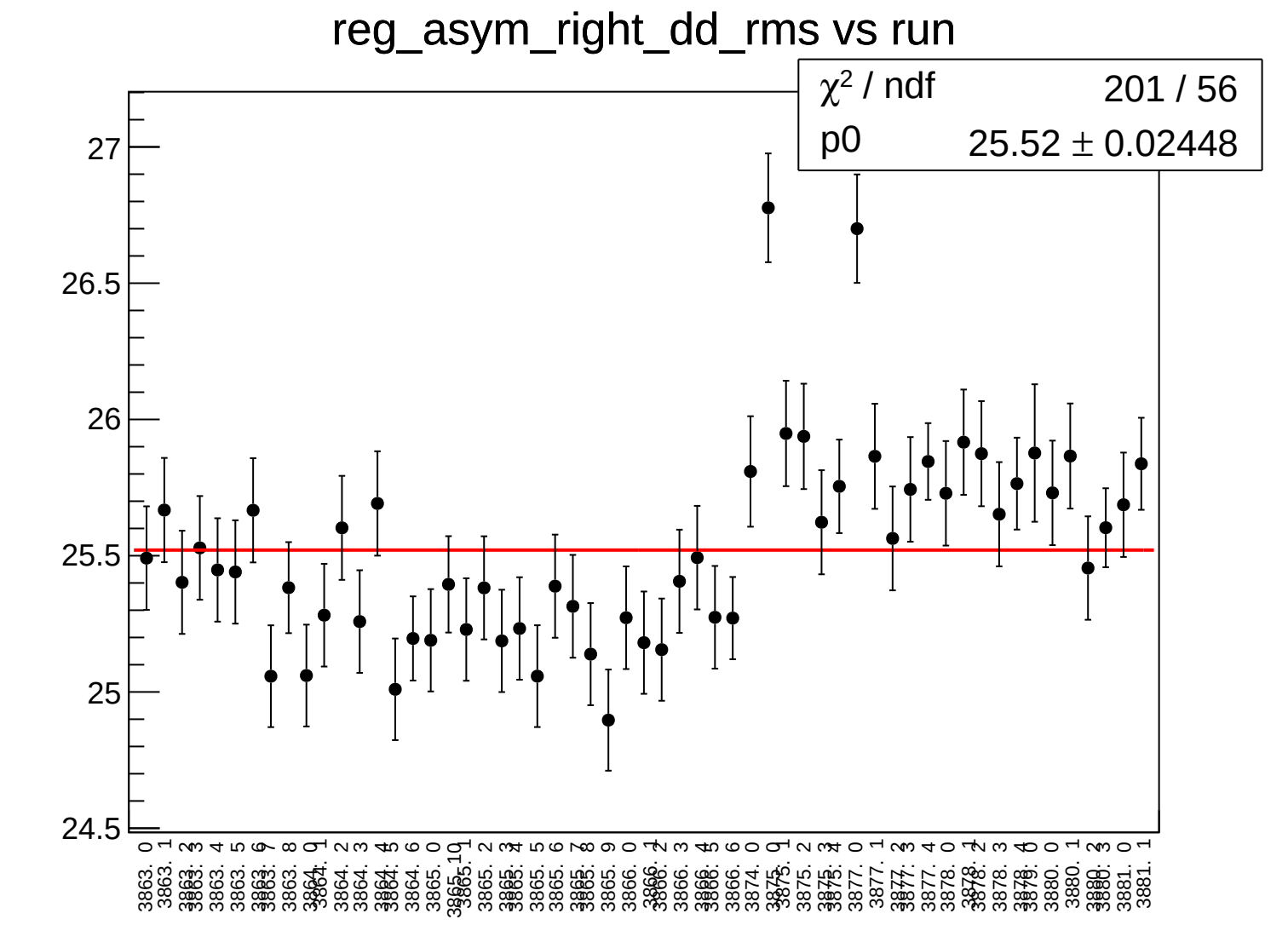

asym_right_avg_mean vs run
χ² / ndf 60.09 / 56
p0 282.4 ± 654.1
pull
Entries 57
Mean 173.6
Std Dev 145.2

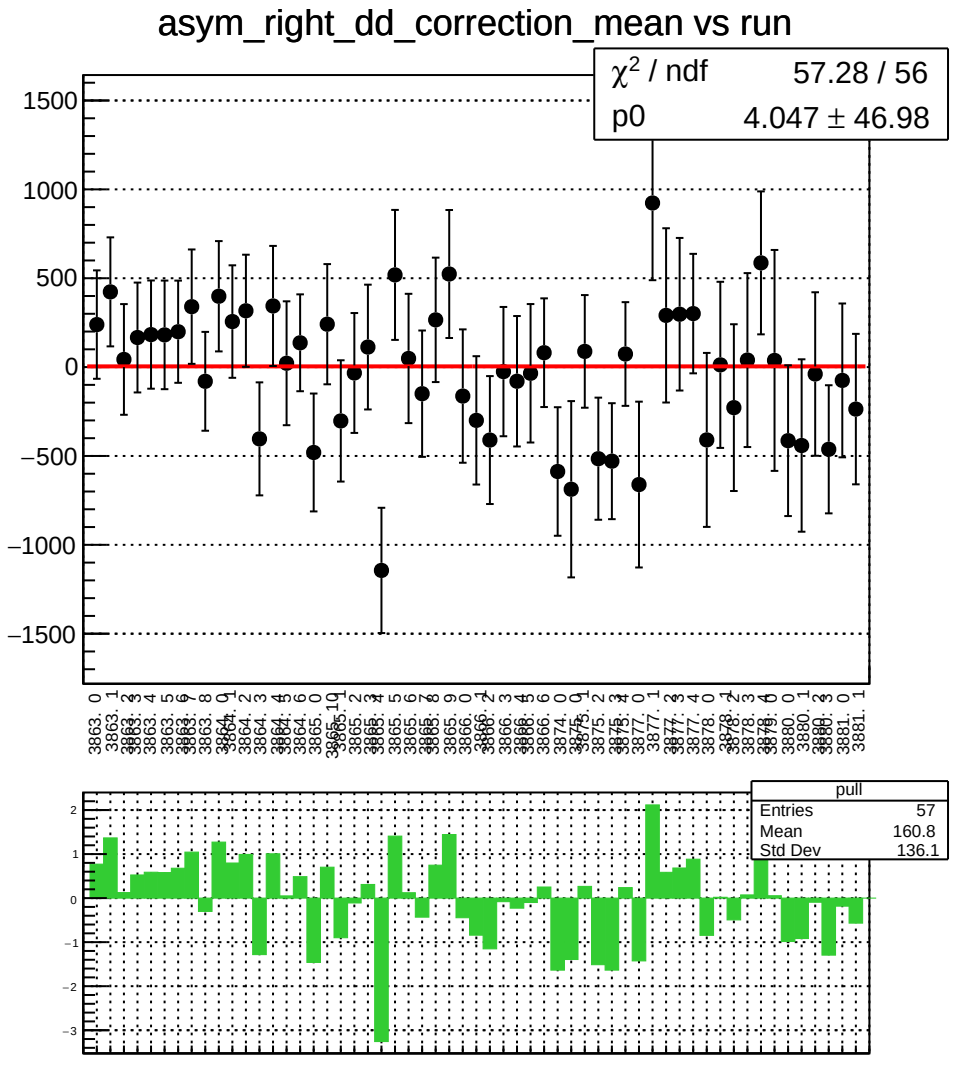

pull1D
Entries 57
Mean 0.02934
Std Dev 1.026

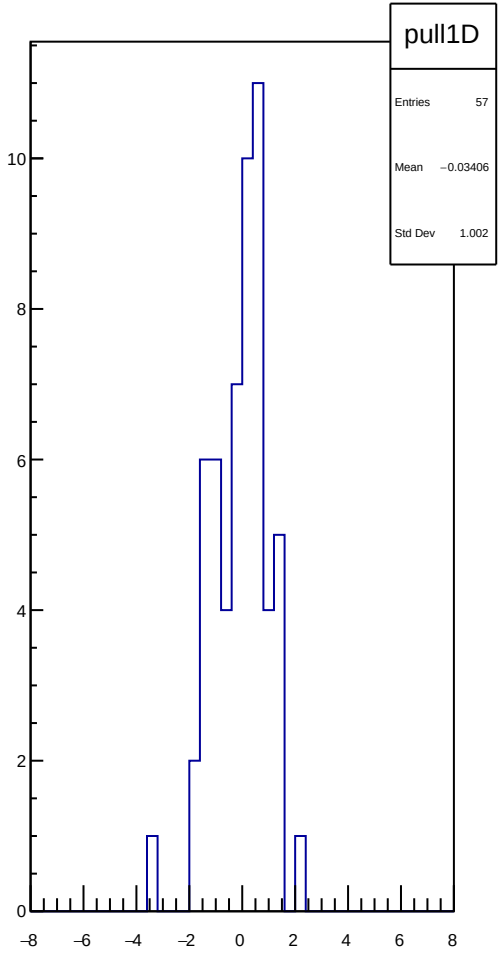

asym_right_avg_rms vs run
χ² / ndf 5260 / 56
p0 481.2 ± 0.4625
560
540
520
500
480
460
440
420

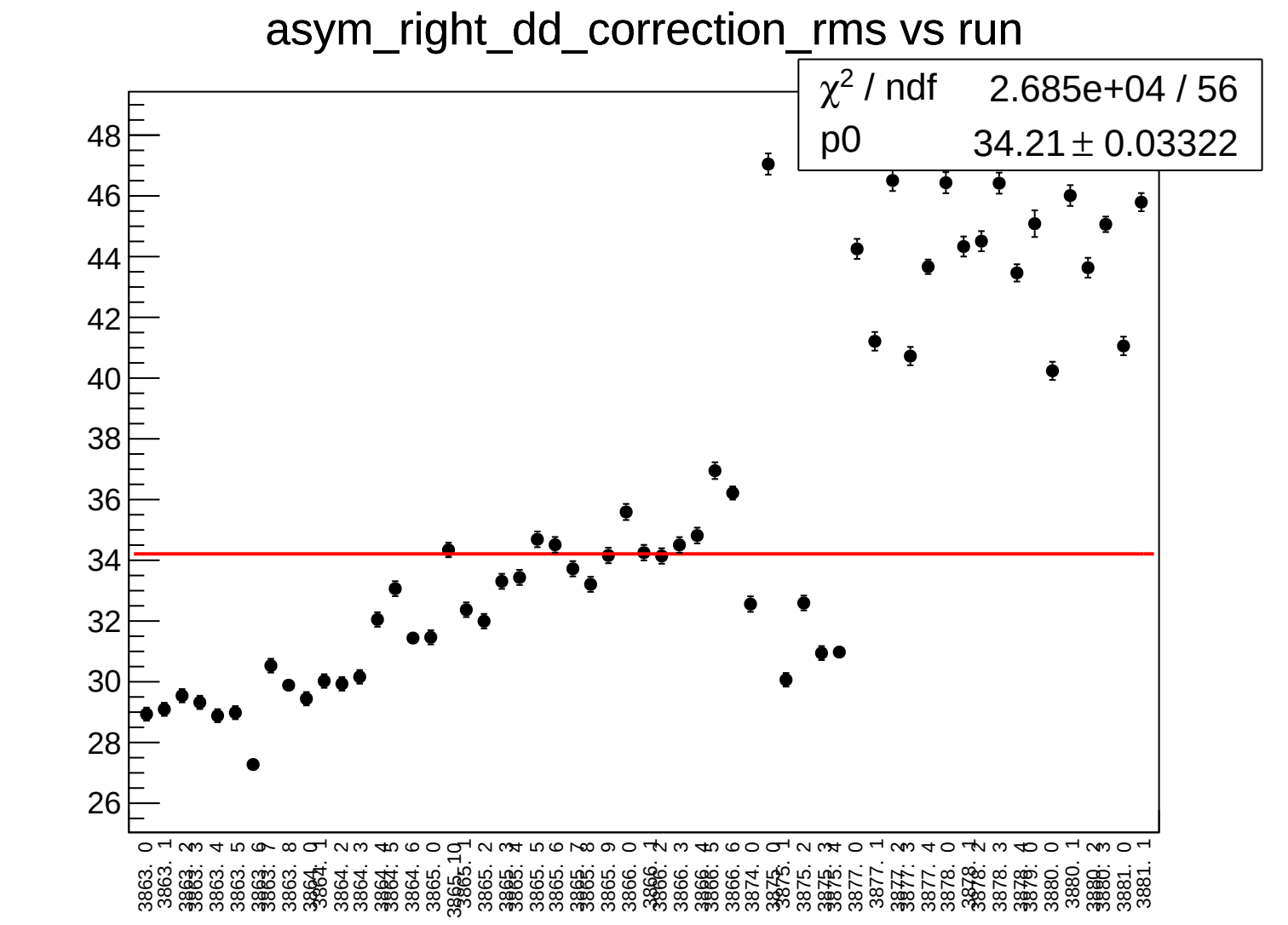

reg_asym_right_dd_mean vs run
χ² / ndf 58.83 / 56
p0 −39.49 ± 34.61
pull
Entries 57
Mean 314.2
Std Dev 287.8

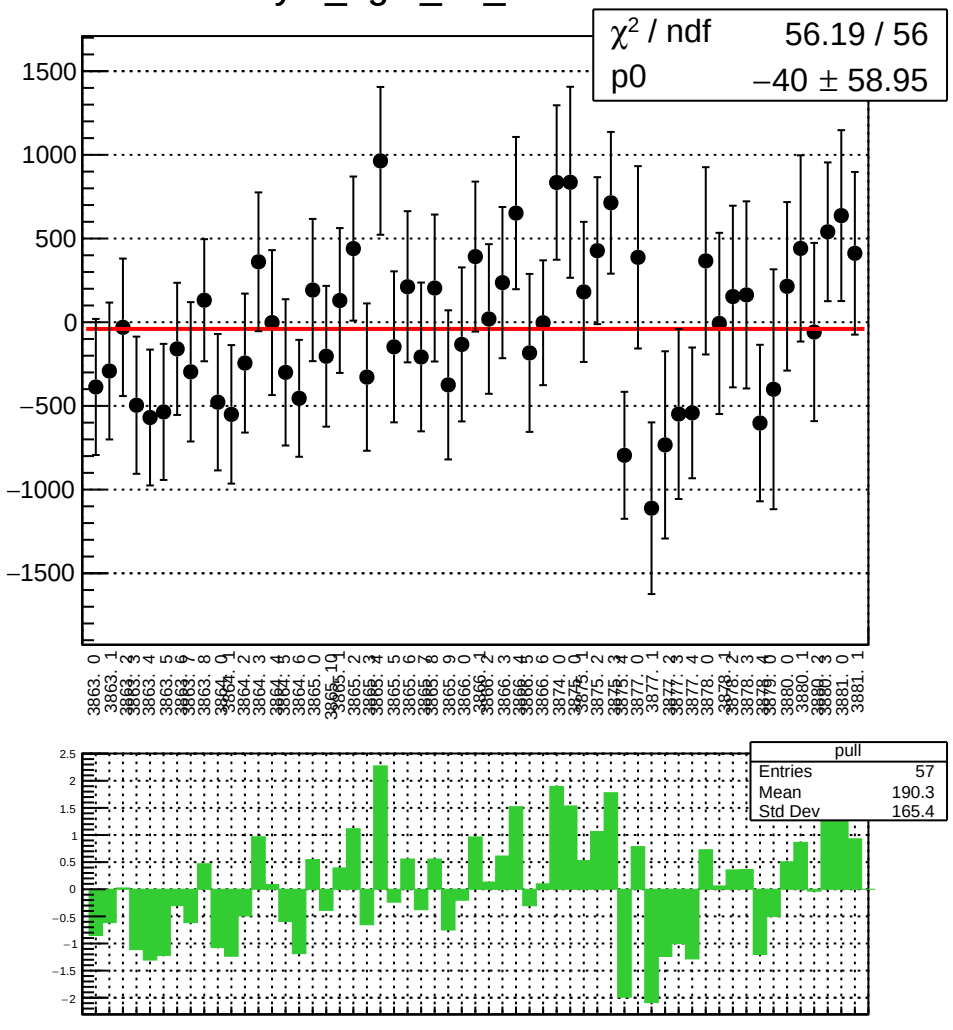

pull1D
Entries 57
Mean 0.005349
Std Dev 1.016

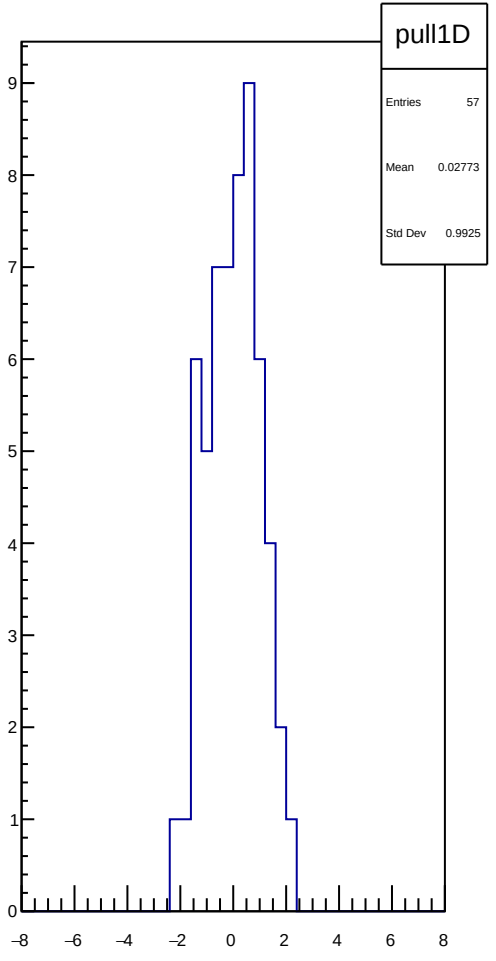

reg_asym_right_dd_rms vs run
χ² / ndf 201 / 56
p0 25.52 ± 0.02448
27
26.5
26
25.5
25
24.5

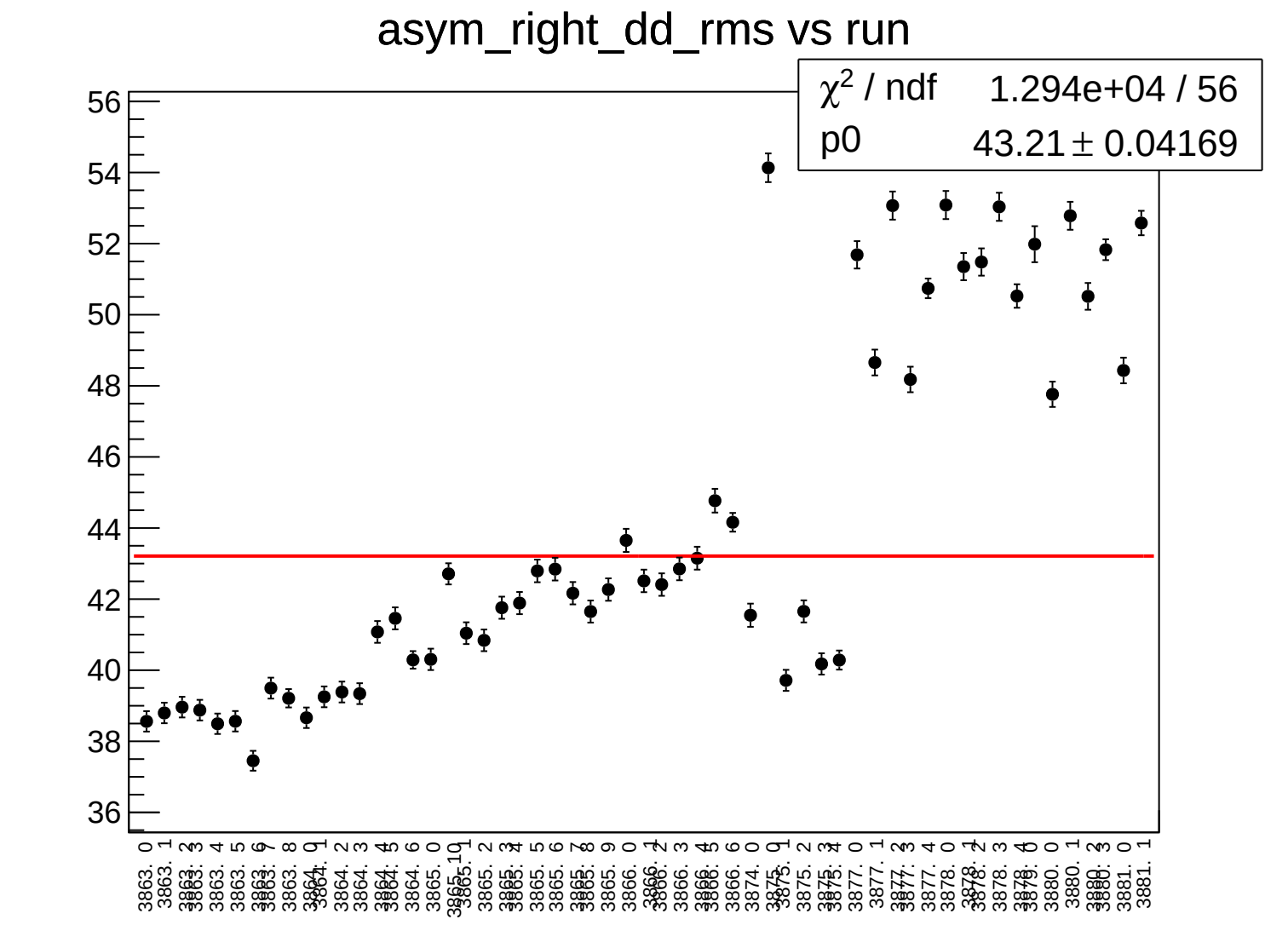

asym_right_dd_correction_mean vs run
χ² / ndf 57.28 / 56
p0 4.047 ± 46.98
pull
Entries 57
Mean 160.8
Std Dev 136.1

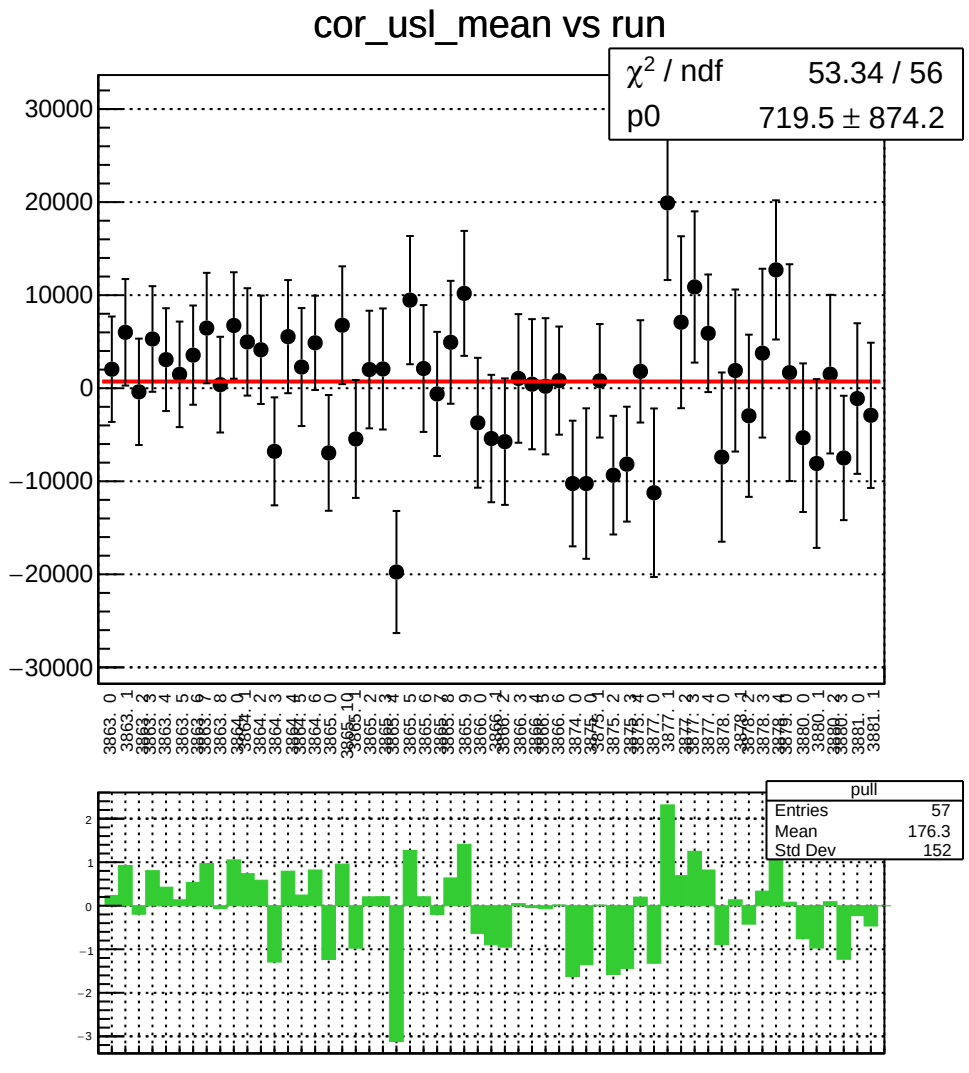

pull1D
Entries 57
Mean −0.03406
Std Dev 1.002

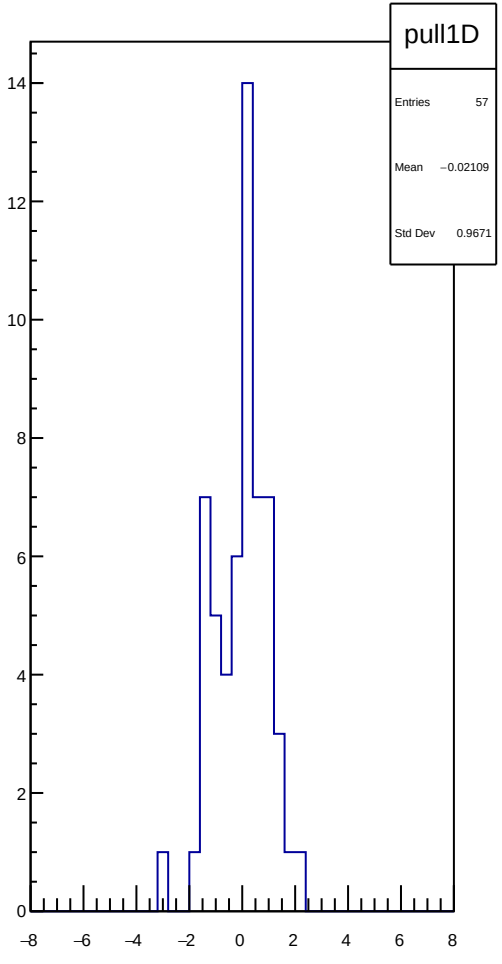

asym_right_dd_correction_rms vs run
χ² / ndf 2.685e+04 / 56
p0 34.21 ± 0.03322
48
46
44
42
40
38
36
34
32
30
28
26
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

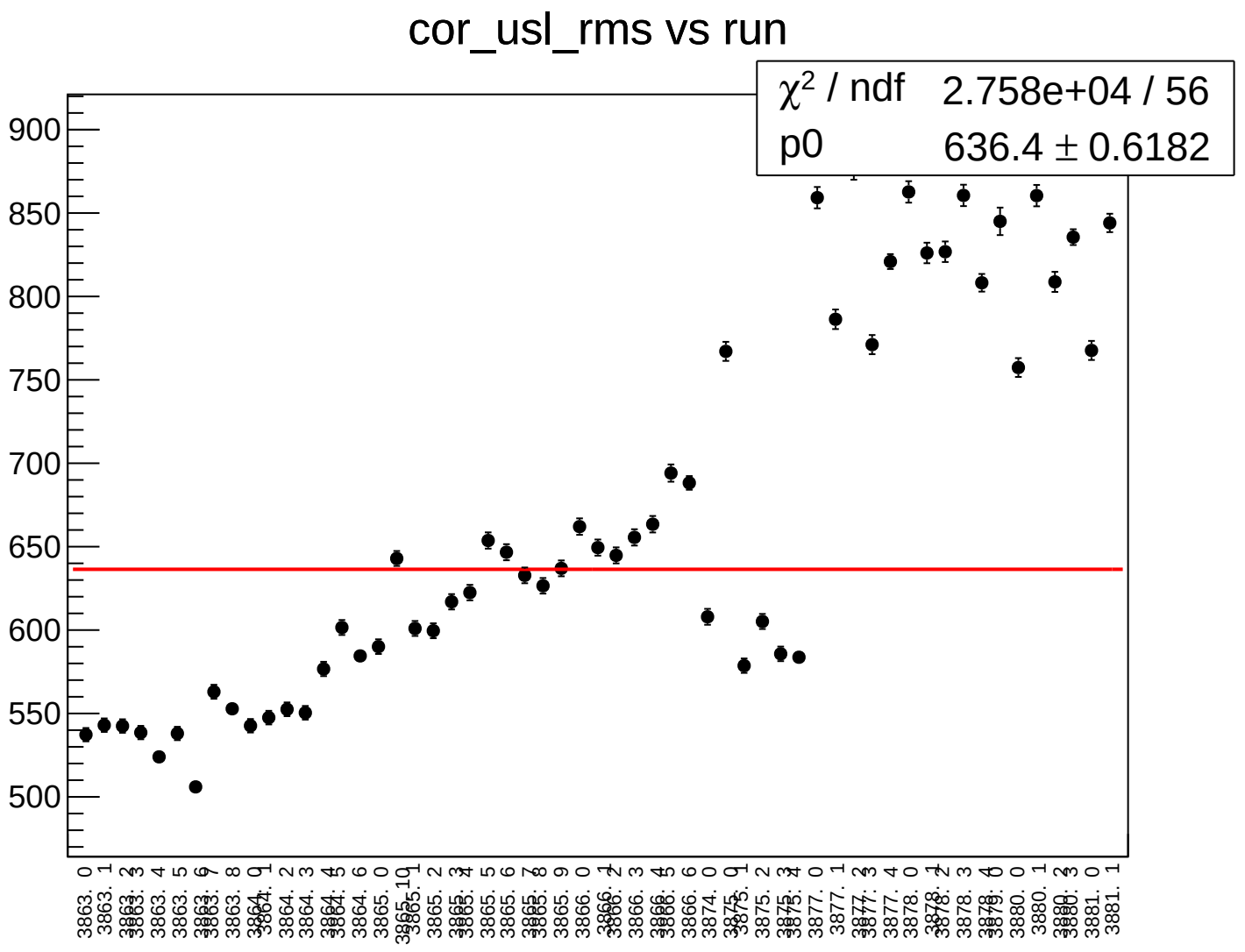

asym_right_dd_mean vs run
χ² / ndf 56.19 / 56
p0 −40 ± 58.95
pull
Entries 57
Mean 190.3
Std Dev 165.4

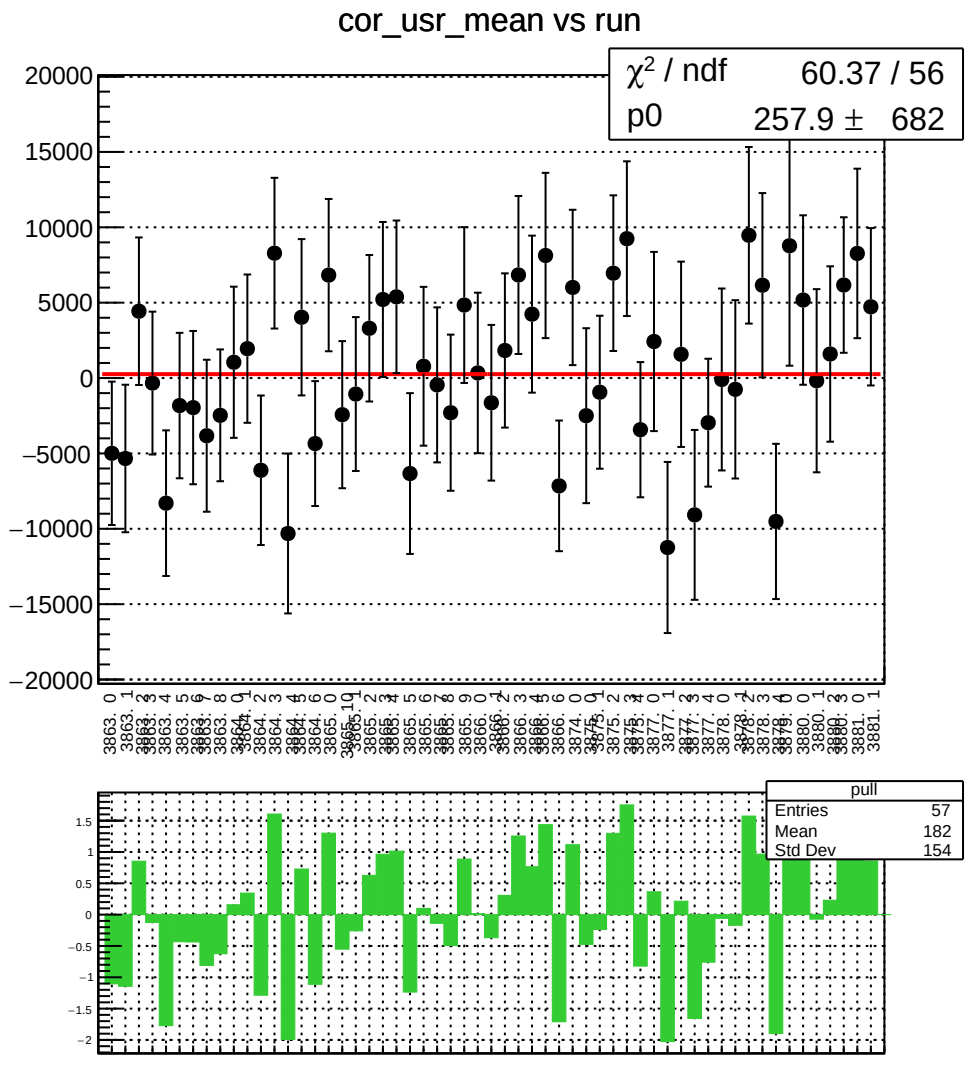

pull1D
Entries 57
Mean 0.02773
Std Dev 0.9925

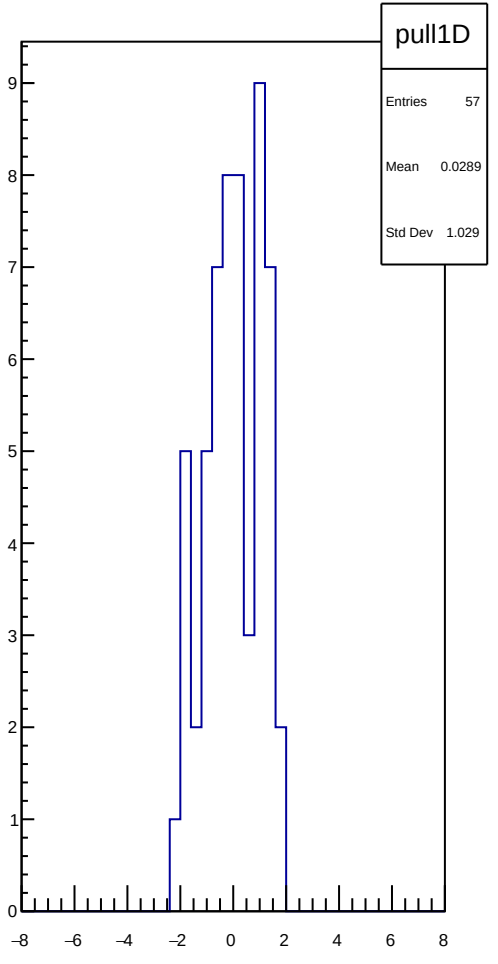

asym_right_dd_rms vs run
χ^2 / ndf 1.294e+04 / 56
p0 43.21 ± 0.04169
56
54
52
50
48
46
44
42
40
38
36
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

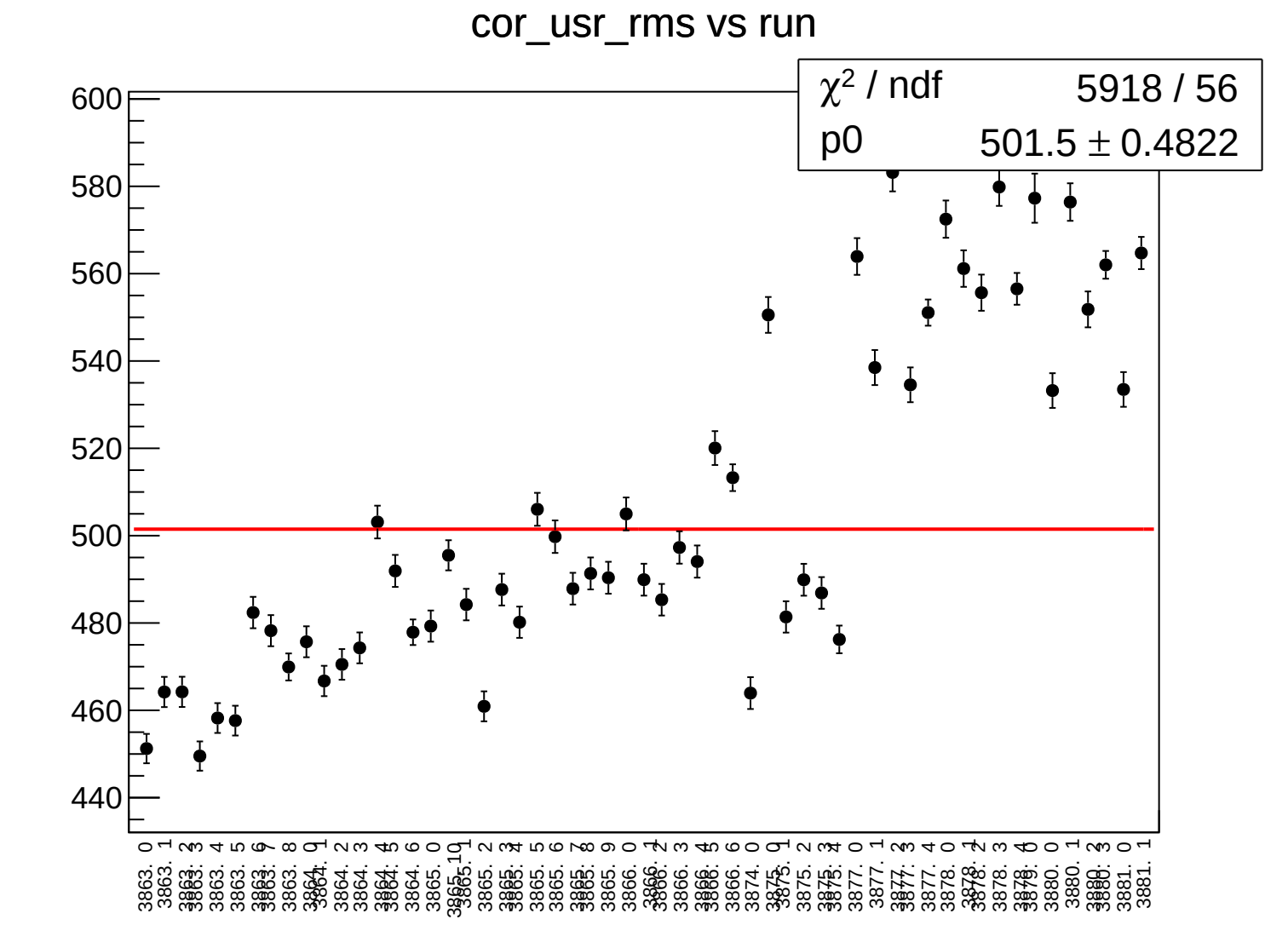

cor_usl_mean vs run
χ² / ndf 53.34 / 56
p0 719.5 ± 874.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 57
Mean 176.3
Std Dev 152
2
1
0
−1
−2
−3

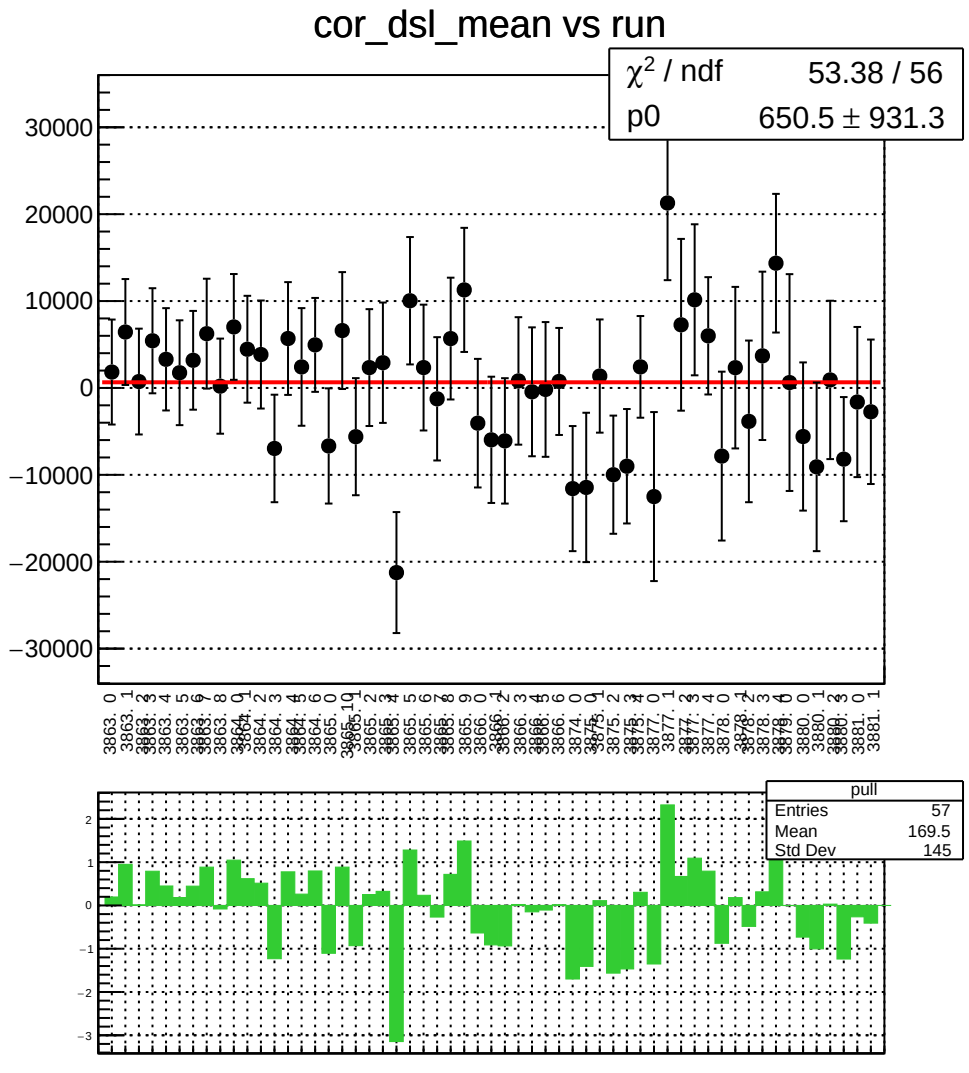

pull1D
Entries 57
Mean −0.02109
Std Dev 0.9671
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

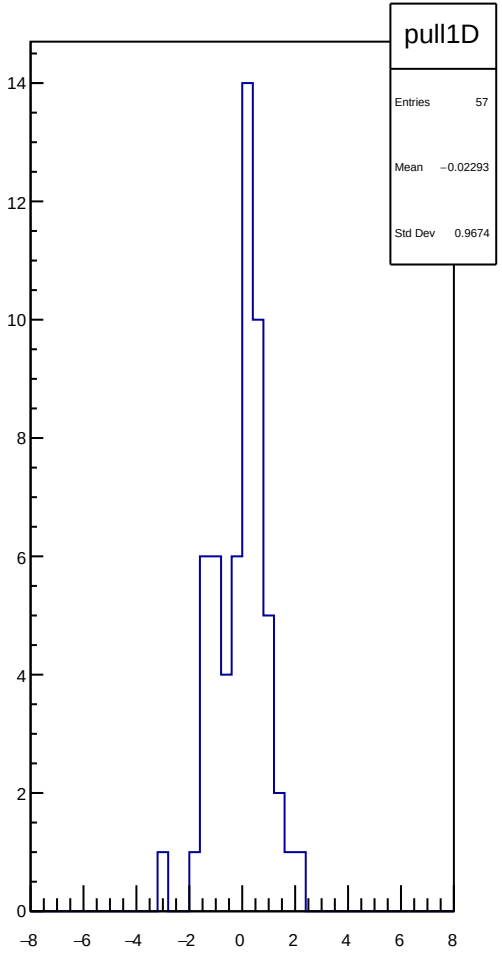

cor_usl_rms vs run
χ² / ndf 2.758e+04 / 56
p0 636.4 ± 0.6182
900
850
800
750
700
650
600
550
500

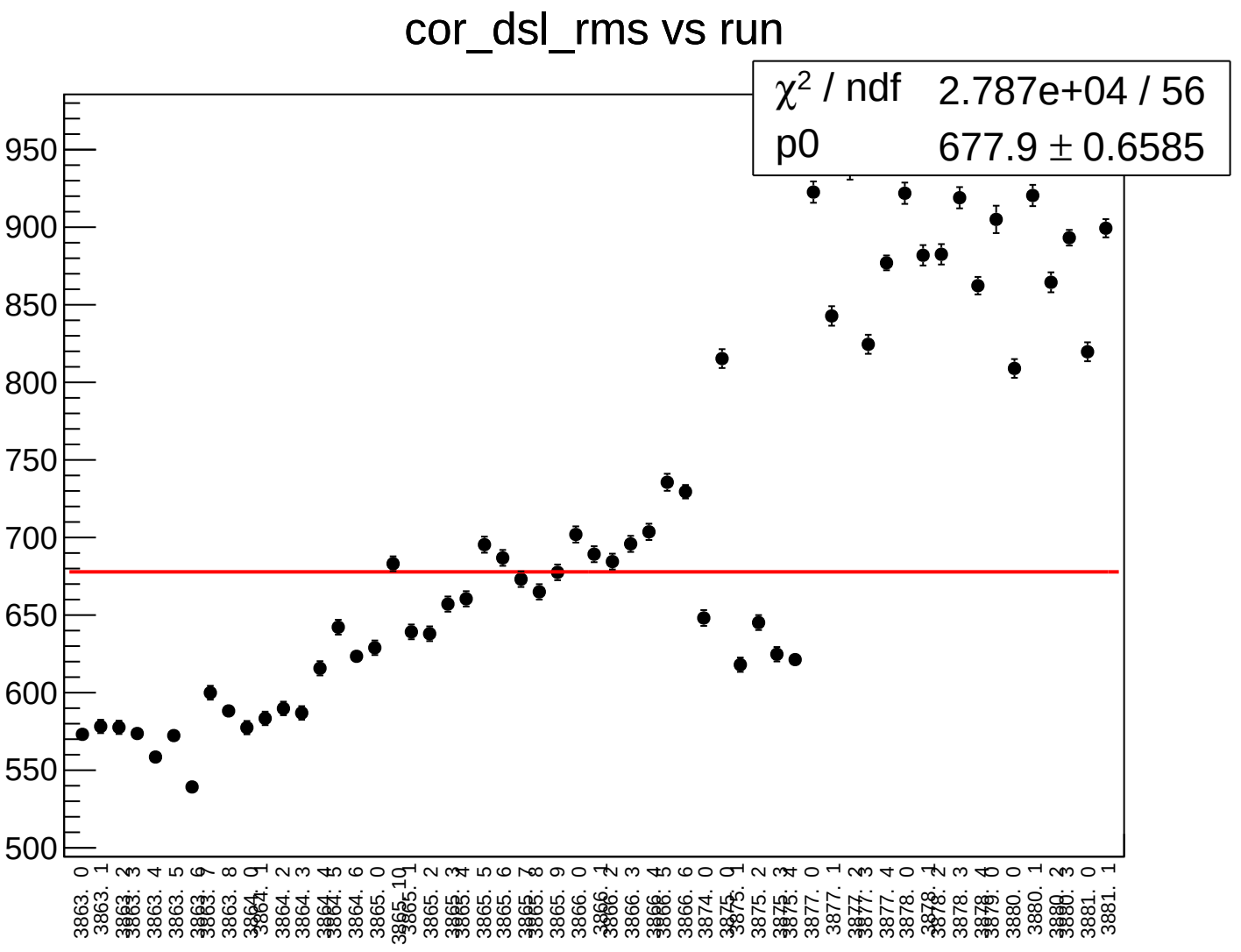

cor_usr_mean vs run
χ² / ndf 60.37 / 56
p0 257.9 ± 682
pull
Entries 57
Mean 182
Std Dev 154

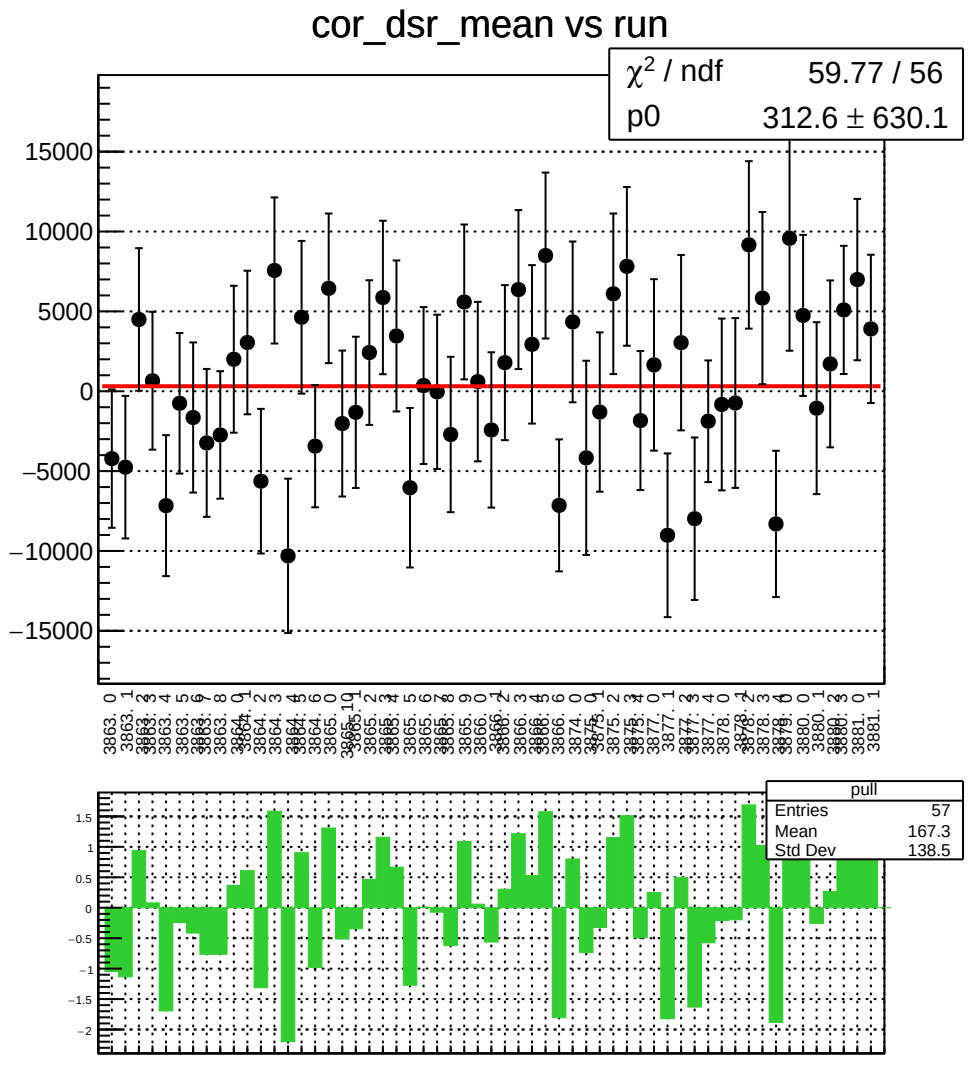

pull1D
Entries 57
Mean 0.0289
Std Dev 1.029

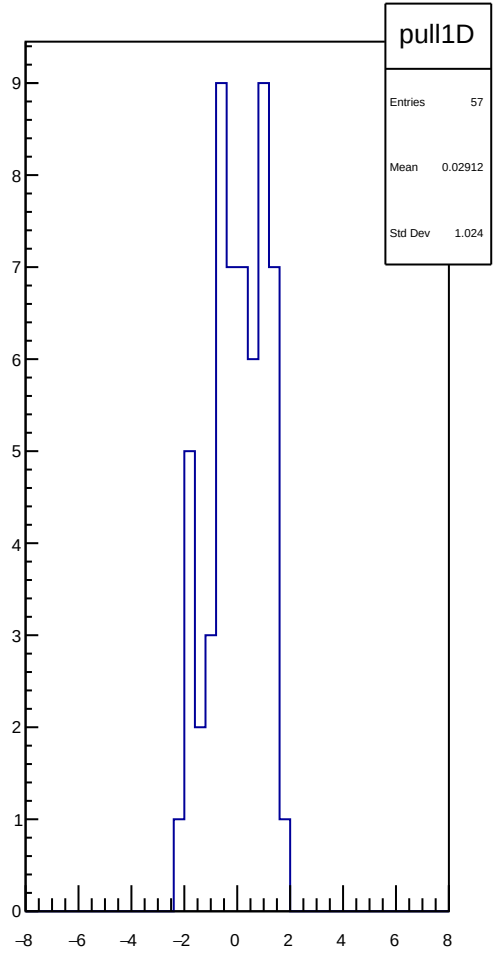

cor_usr_rms vs run
χ² / ndf 5918 / 56
p0 501.5 ± 0.4822
600
580
560
540
520
500
480
460
440
3863. 0
3863. 1
3863. 4
3863. 5
3863. 8
3864. 2
3864. 3
3865. 0
3865. 2
3865. 5
3865. 6
3865. 9
3866. 0
3866. 3
3866. 6
3874. 0
3875. 2
3877. 0
3877. 1
3877. 4
3878. 0
3878. 3
3880. 0
3880. 1
3881. 0
3881. 1

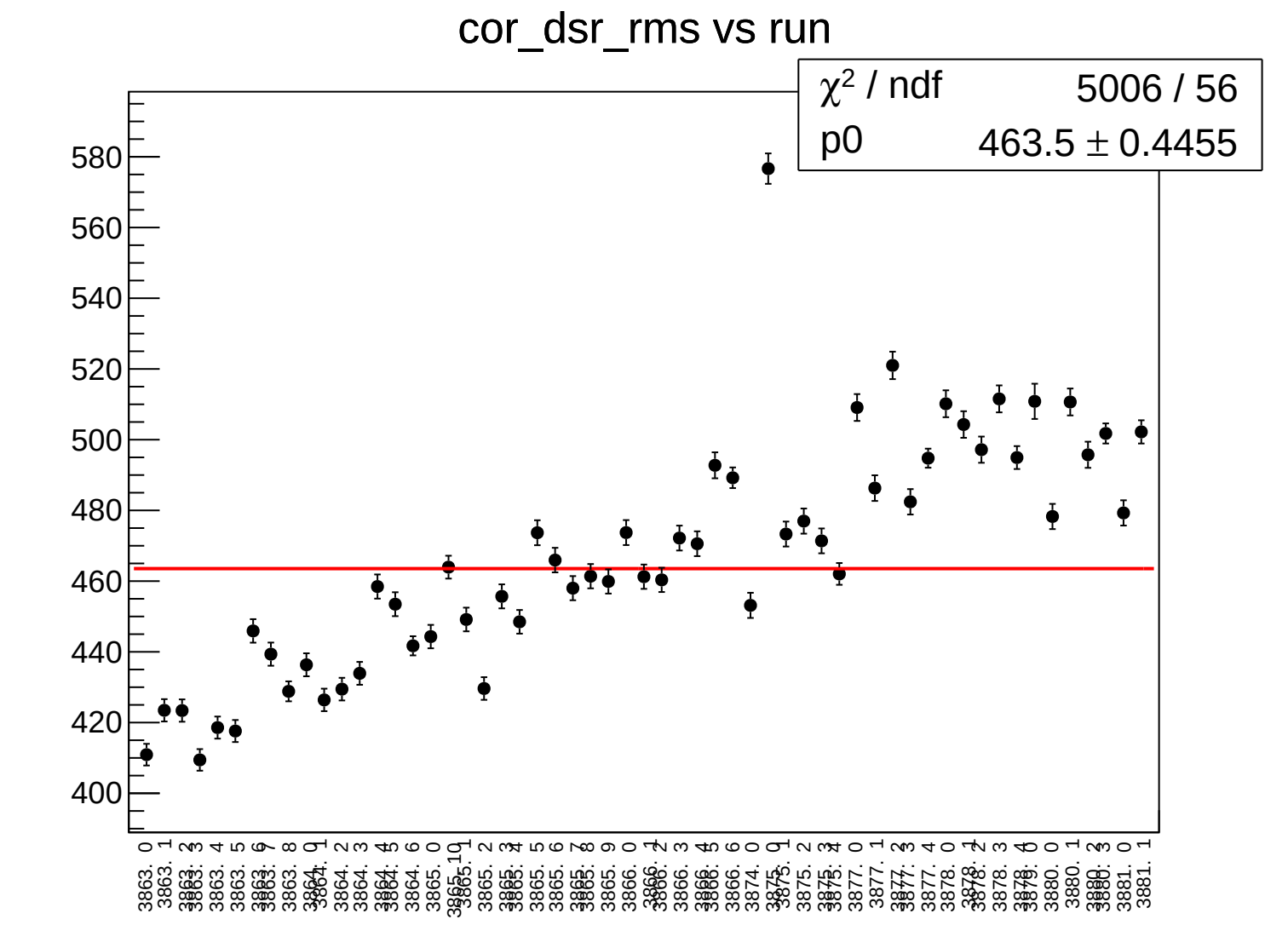

cor_dsl_mean vs run
χ² / ndf 53.38 / 56
p0 650.5 ± 931.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 57
Mean 169.5
Std Dev 145
2
1
0
−1
−2
−3

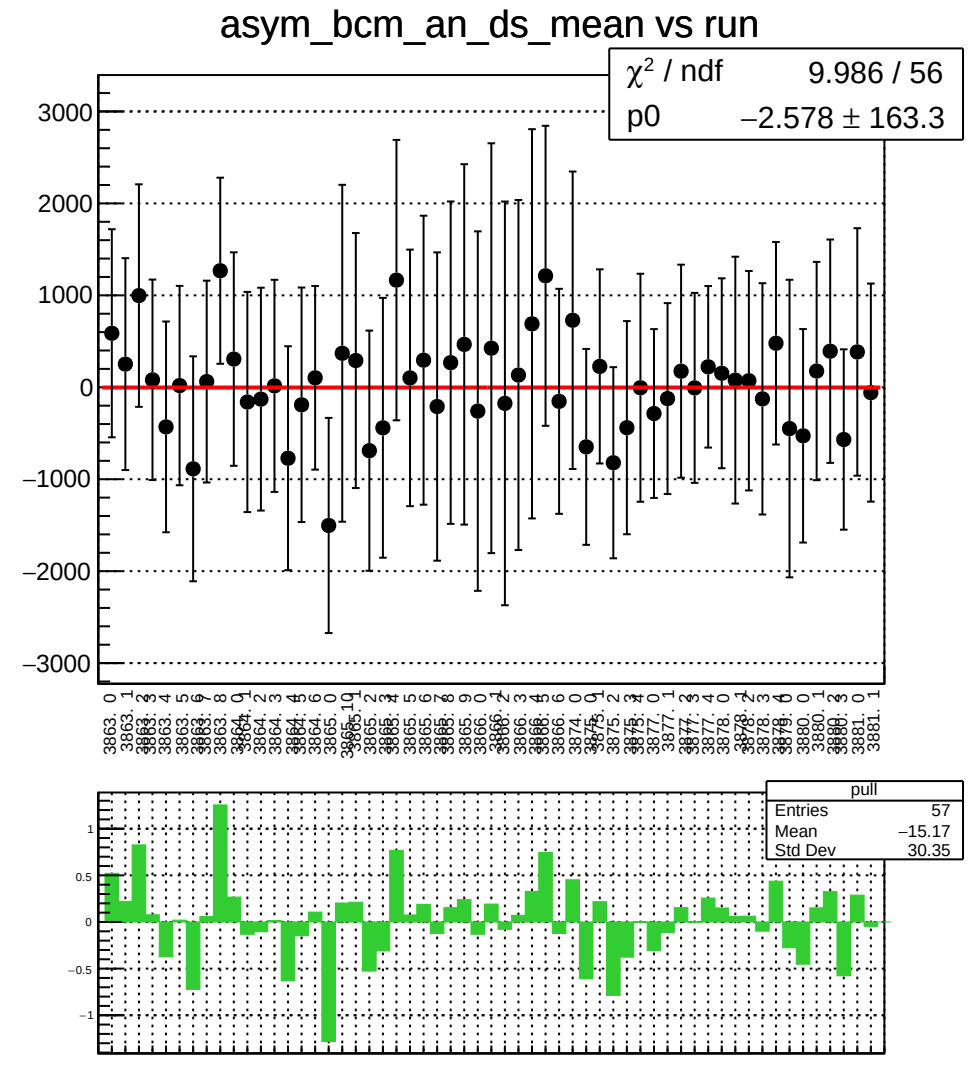

pull1D
Entries 57
Mean −0.02293
Std Dev 0.9674
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

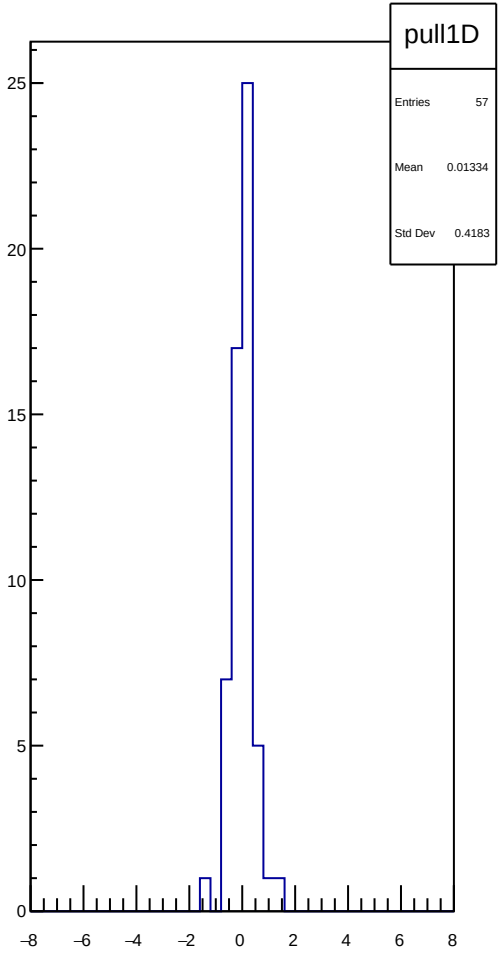

cor_dsl_rms vs run
χ² / ndf 2.787e+04 / 56
p0 677.9 ± 0.6585
950
900
850
800
750
700
650
600
550
500
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

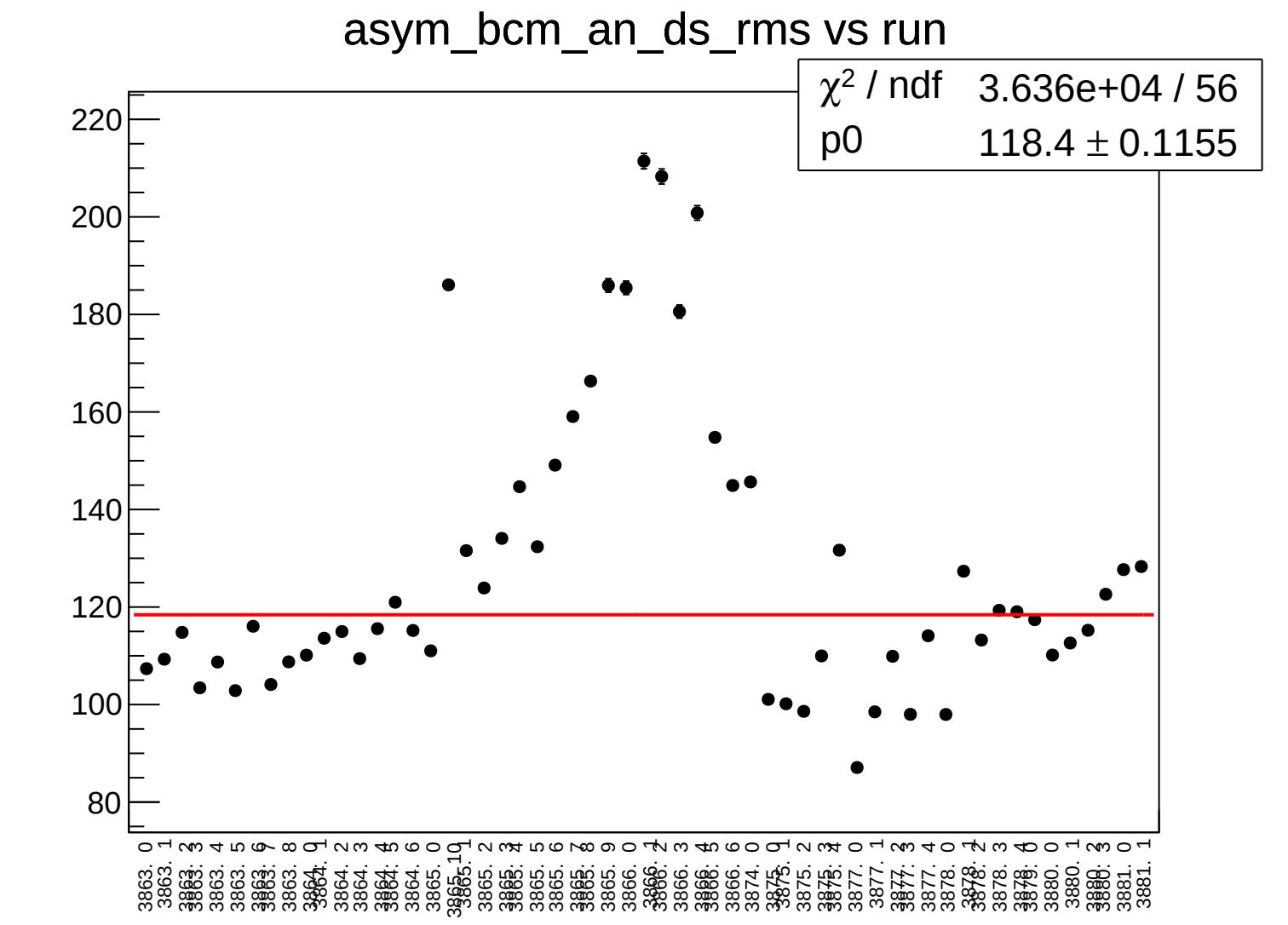

cor_dsr_mean vs run
χ² / ndf 59.77 / 56
p0 312.6 ± 630.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 57
Mean 167.3
Std Dev 138.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

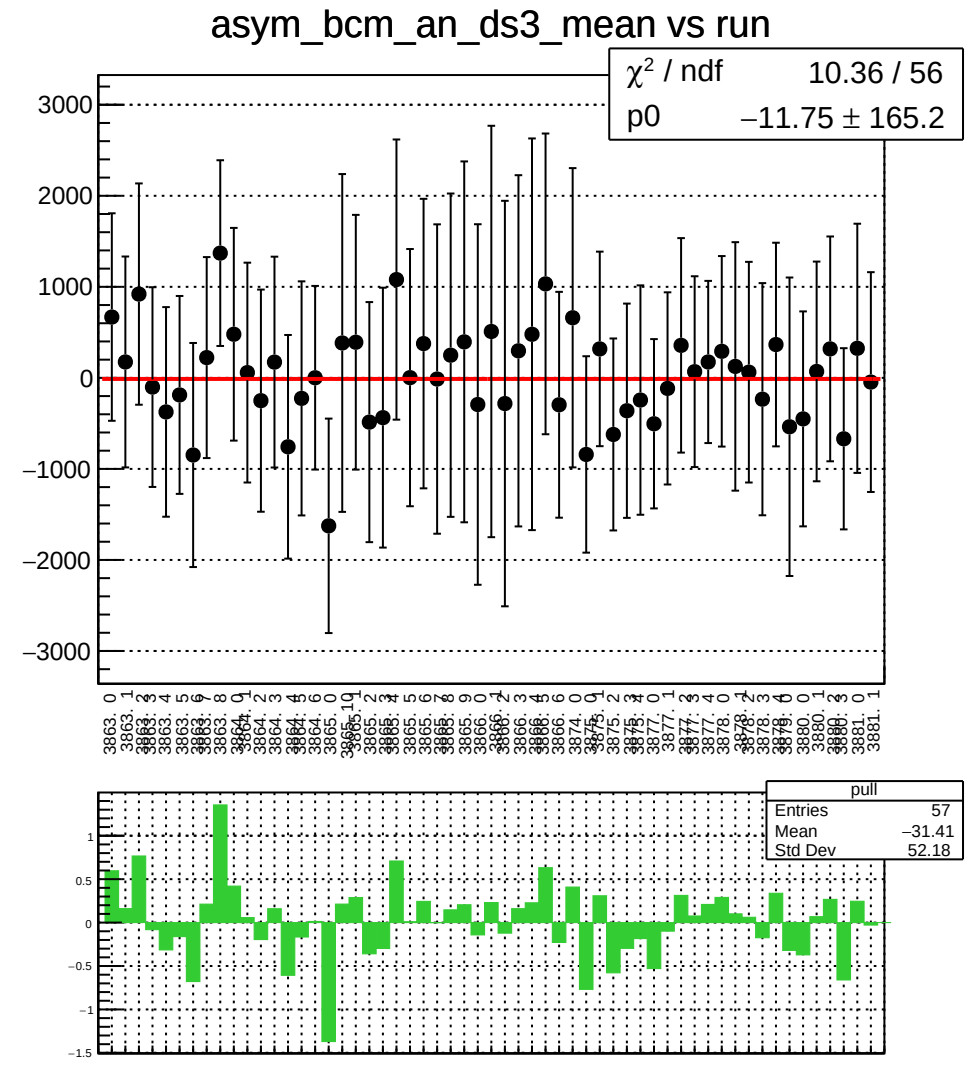

pull1D
Entries 57
Mean 0.02912
Std Dev 1.024
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

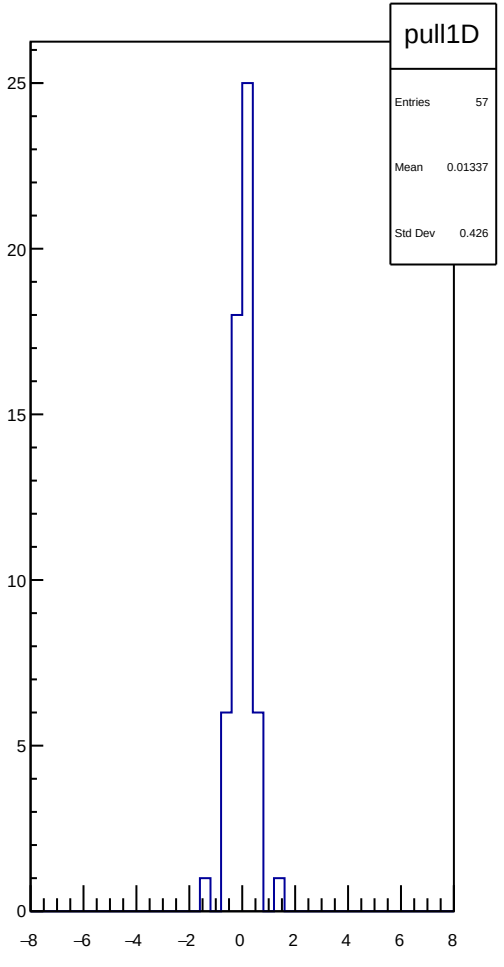

cor_dsr_rms vs run
χ² / ndf 5006 / 56
p0 463.5 ± 0.4455
580
560
540
520
500
480
460
440
420
400

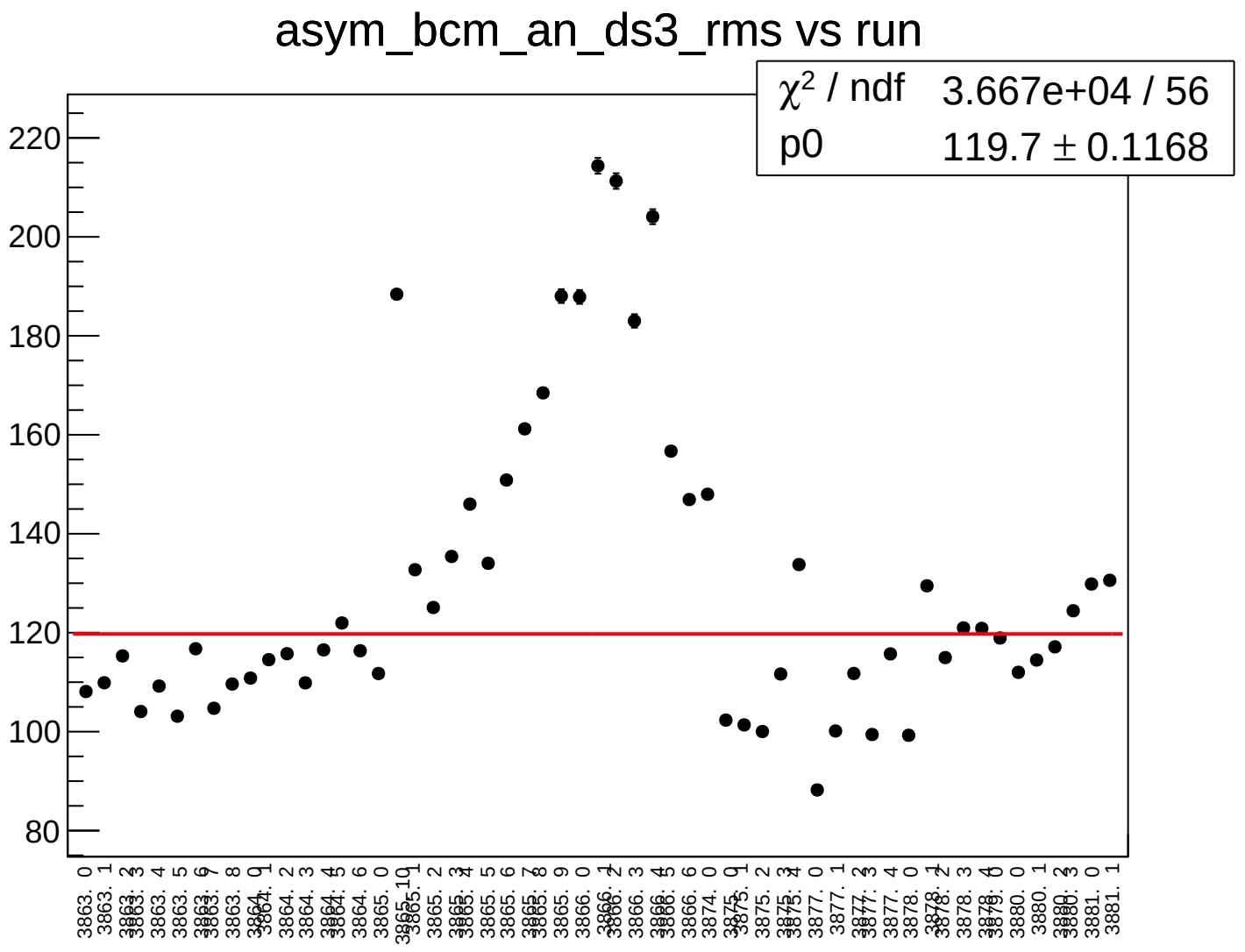

asym_bcm_an_ds_mean vs run
χ² / ndf 9.986 / 56
p0 −2.578 ± 163.3
pull
Entries 57
Mean −15.17
Std Dev 30.35

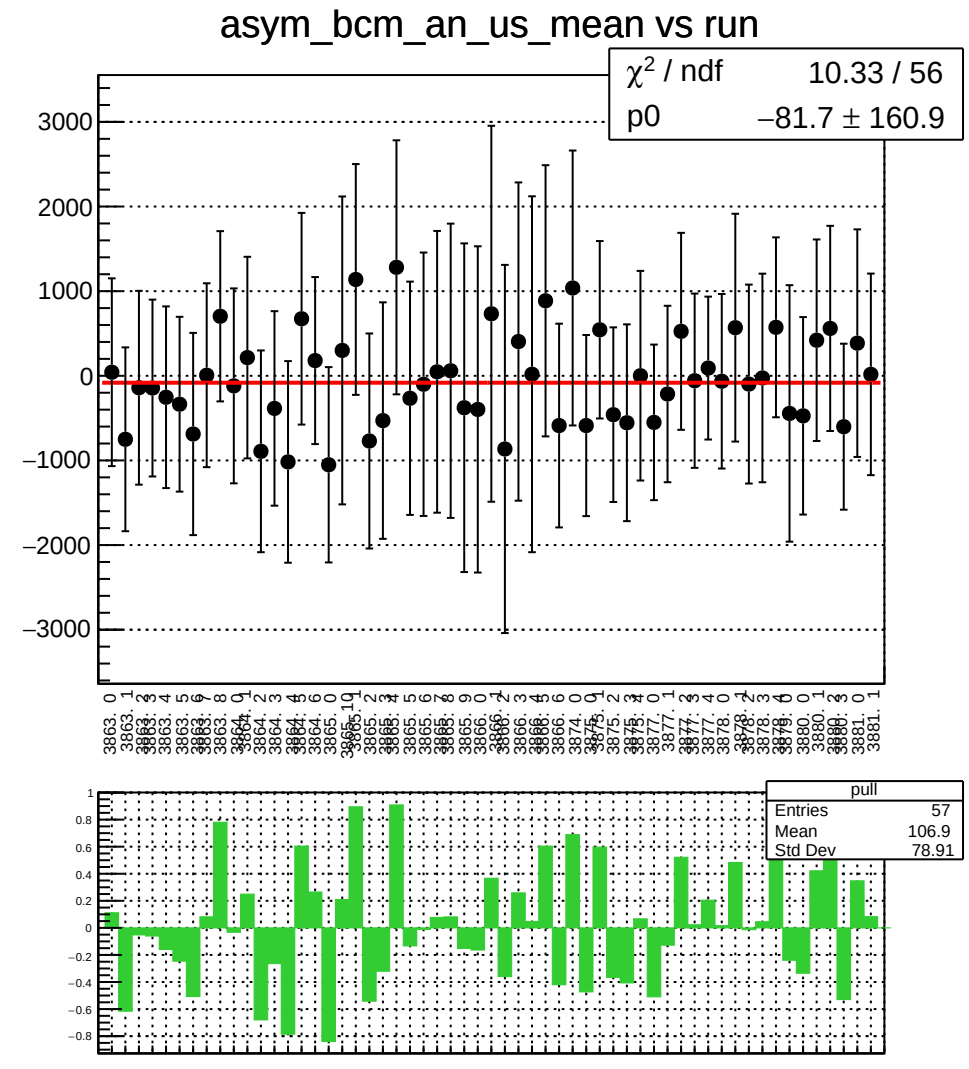

pull1D
Entries 57
Mean 0.01334
Std Dev 0.4183

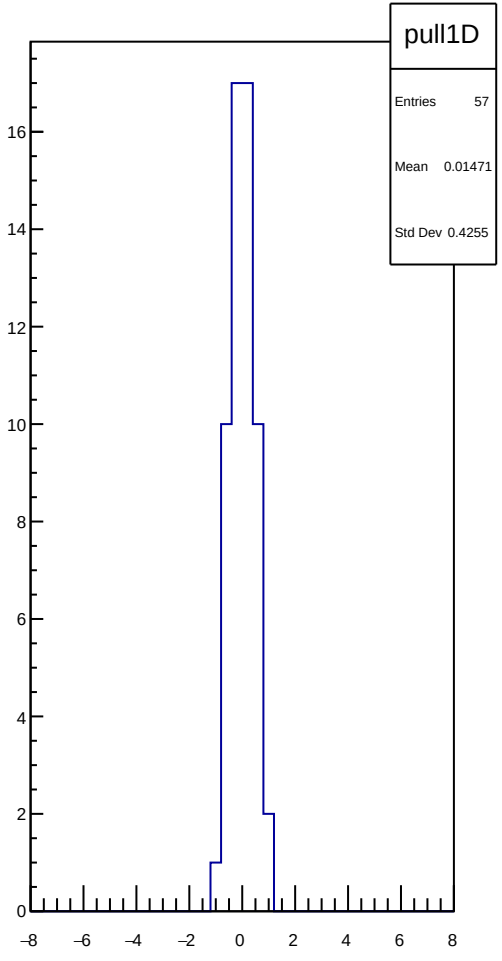

asym_bcm_an_ds_rms vs run
χ^2 / ndf 3.636e+04 / 56
p0 118.4 ± 0.1155
220
200
180
160
140
120
100
80
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

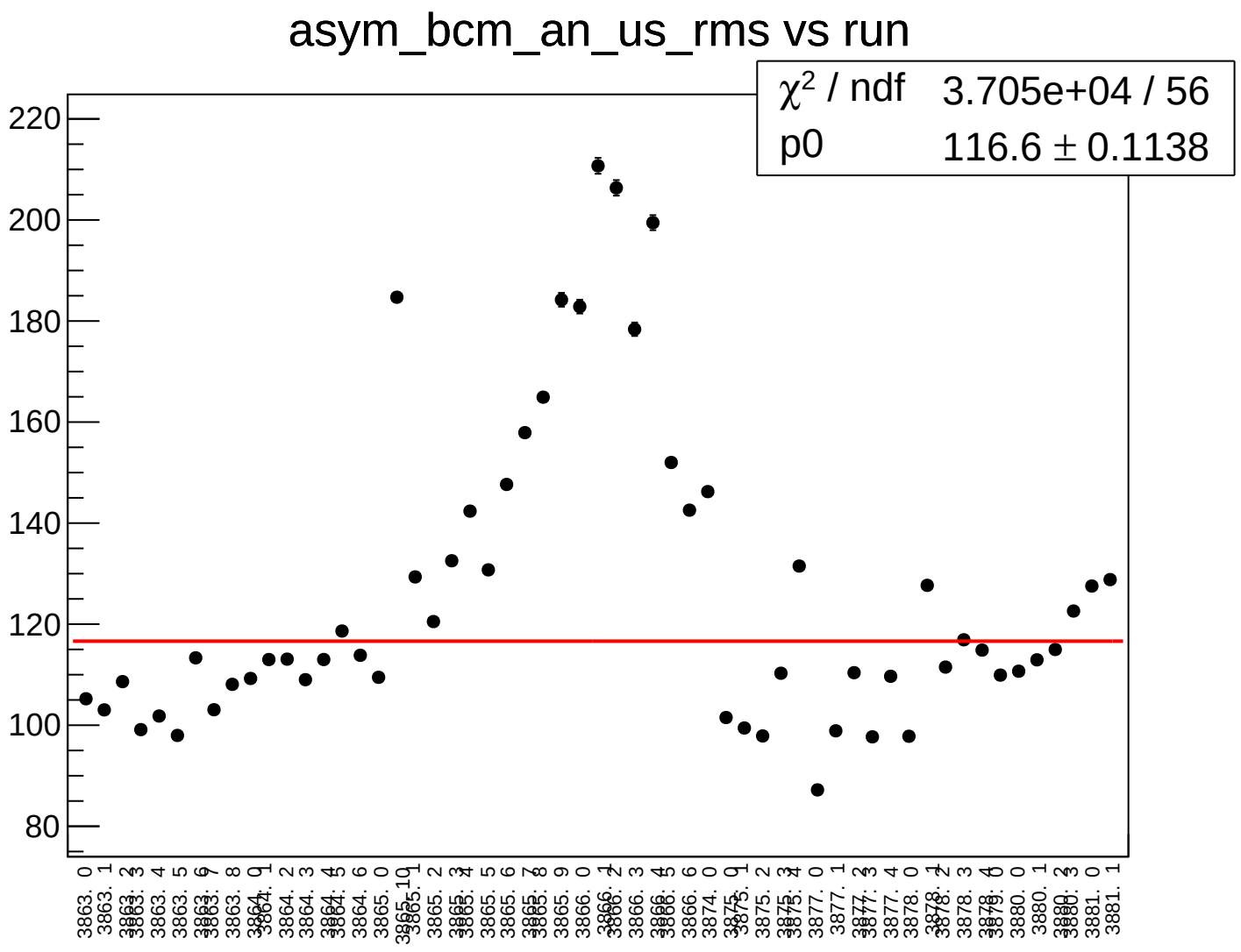

asym_bcm_an_ds3_mean vs run
χ² / ndf 10.36 / 56
p0 −11.75 ± 165.2
pull
Entries 57
Mean −31.41
Std Dev 52.18

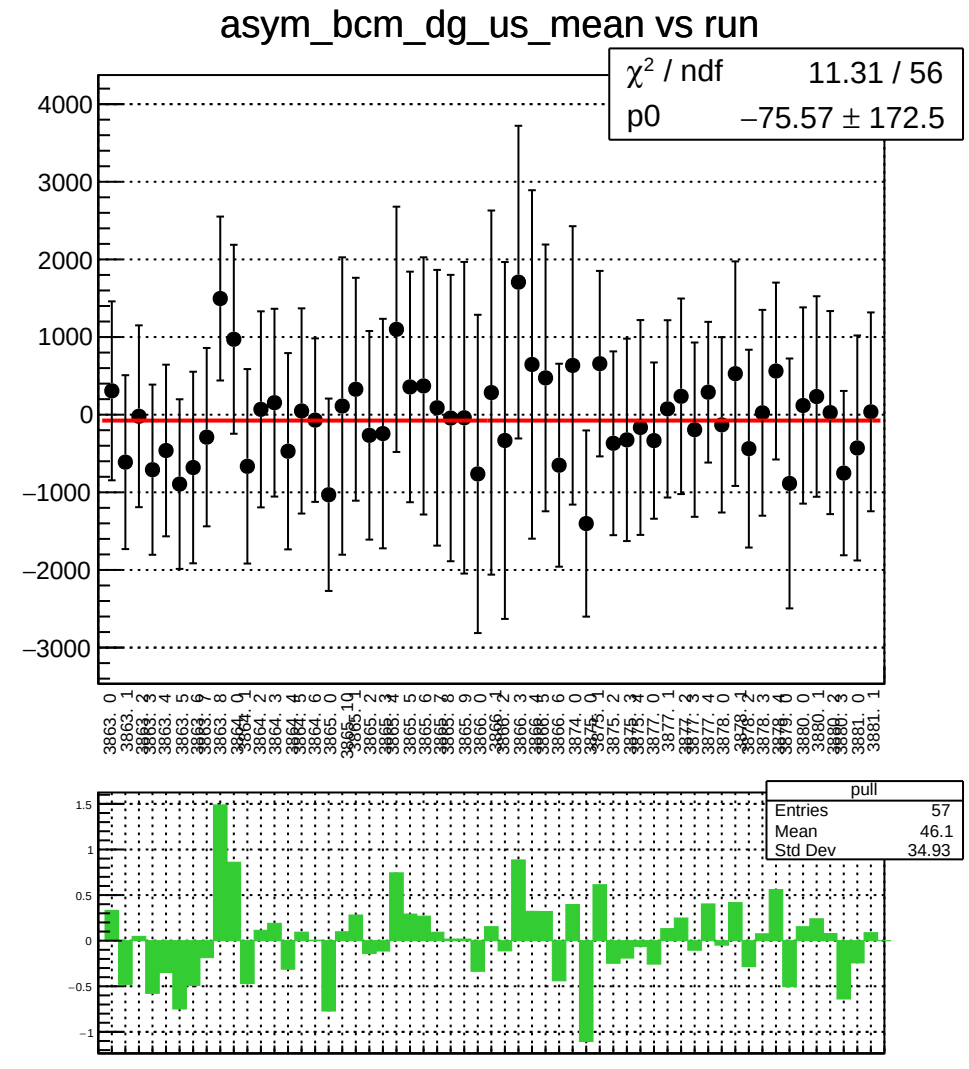

pull1D
Entries 57
Mean 0.01337
Std Dev 0.426

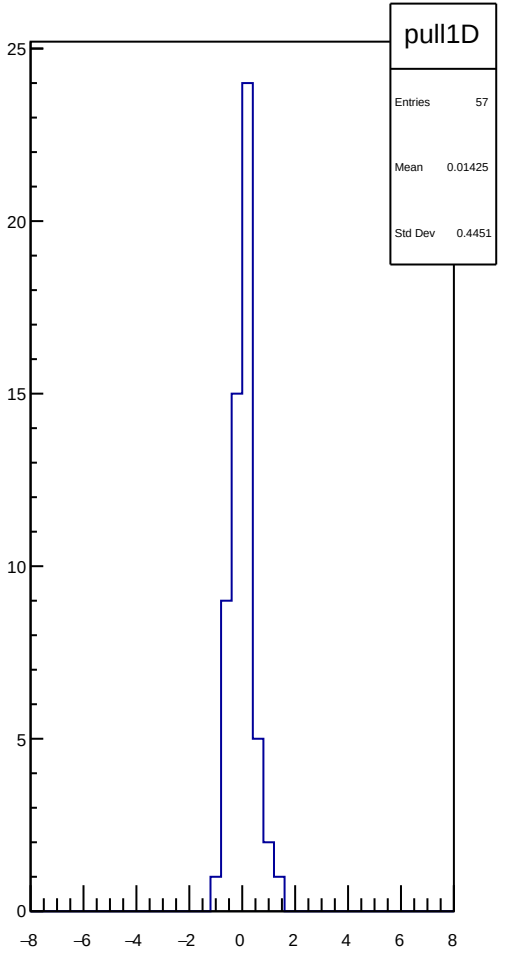

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 3.667e+04 / 56
p0 119.7 ± 0.1168
220
200
180
160
140
120
100
80
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

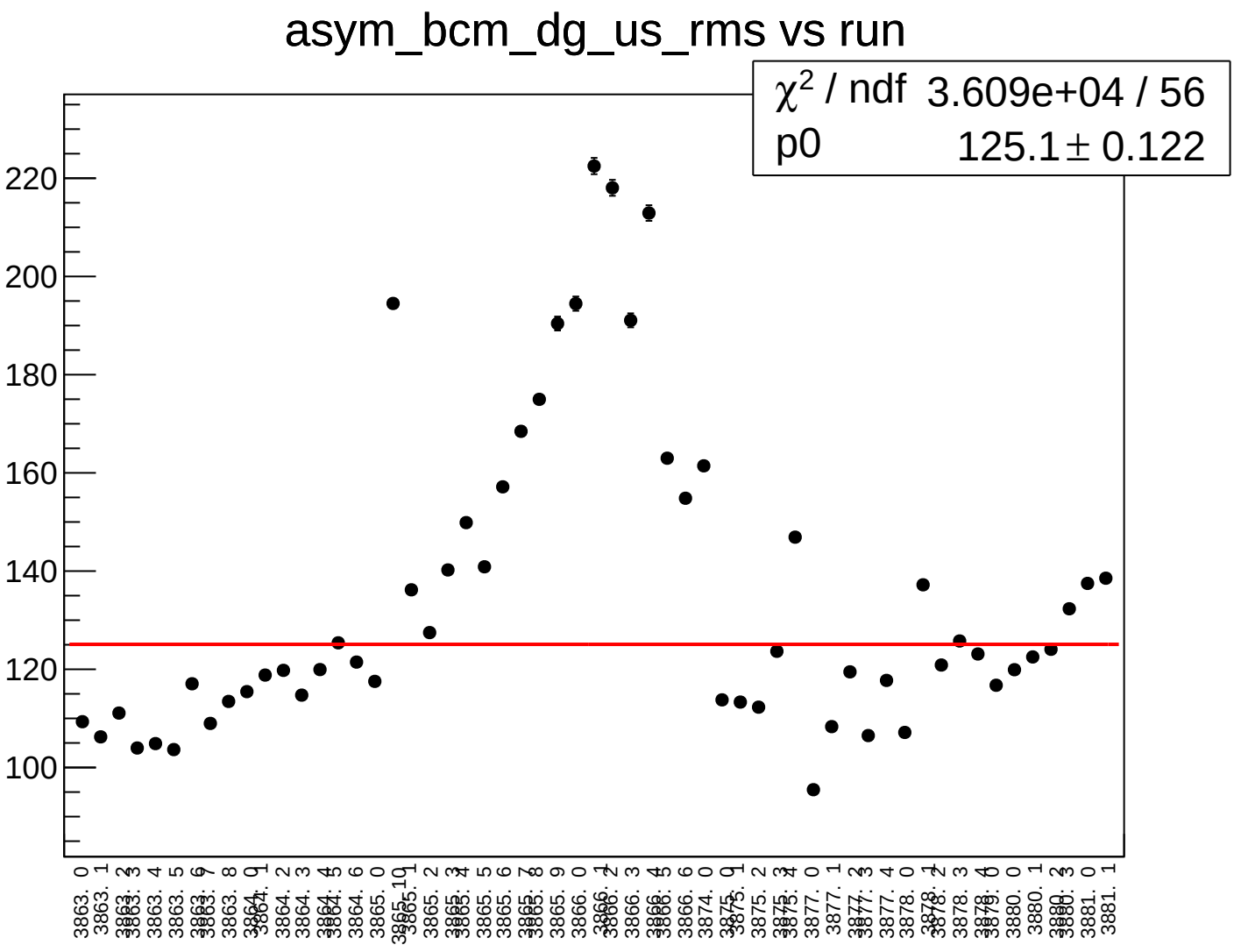

asym_bcm_an_us_mean vs run
χ² / ndf 10.33 / 56
p0 –81.7 ± 160.9
pull
Entries 57
Mean 106.9
Std Dev 78.91

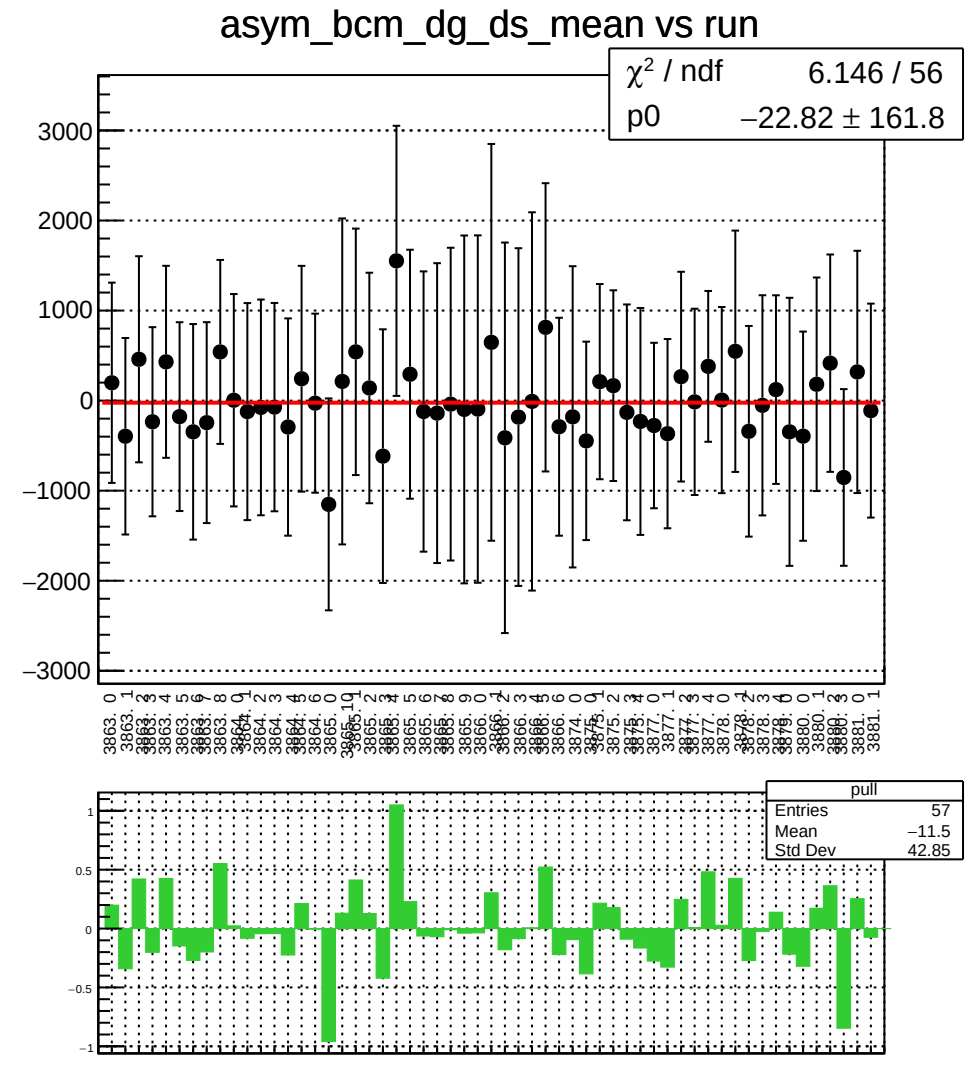

pull1D
Entries 57
Mean 0.01471
Std Dev 0.4255

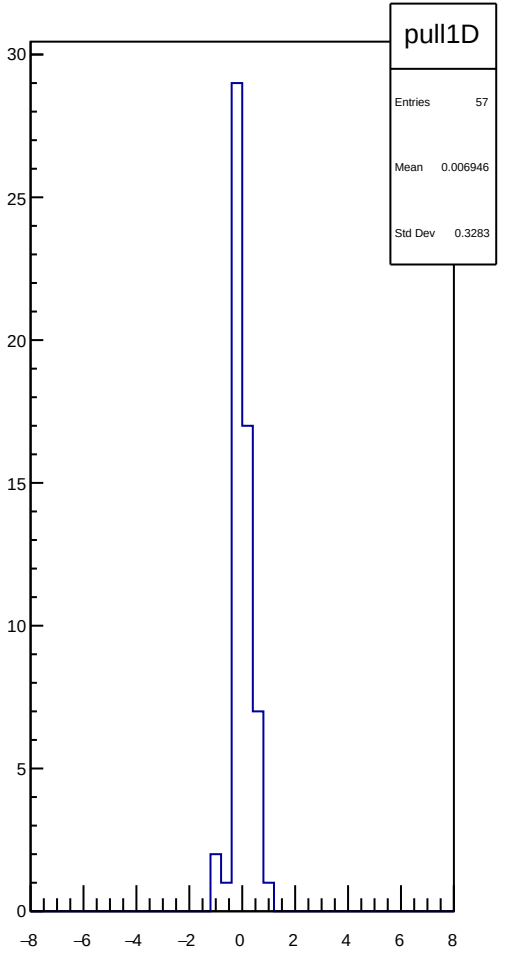

asym_bcm_an_us_rms vs run
χ² / ndf 3.705e+04 / 56
p0 116.6 ± 0.1138
220
200
180
160
140
120
100
80
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

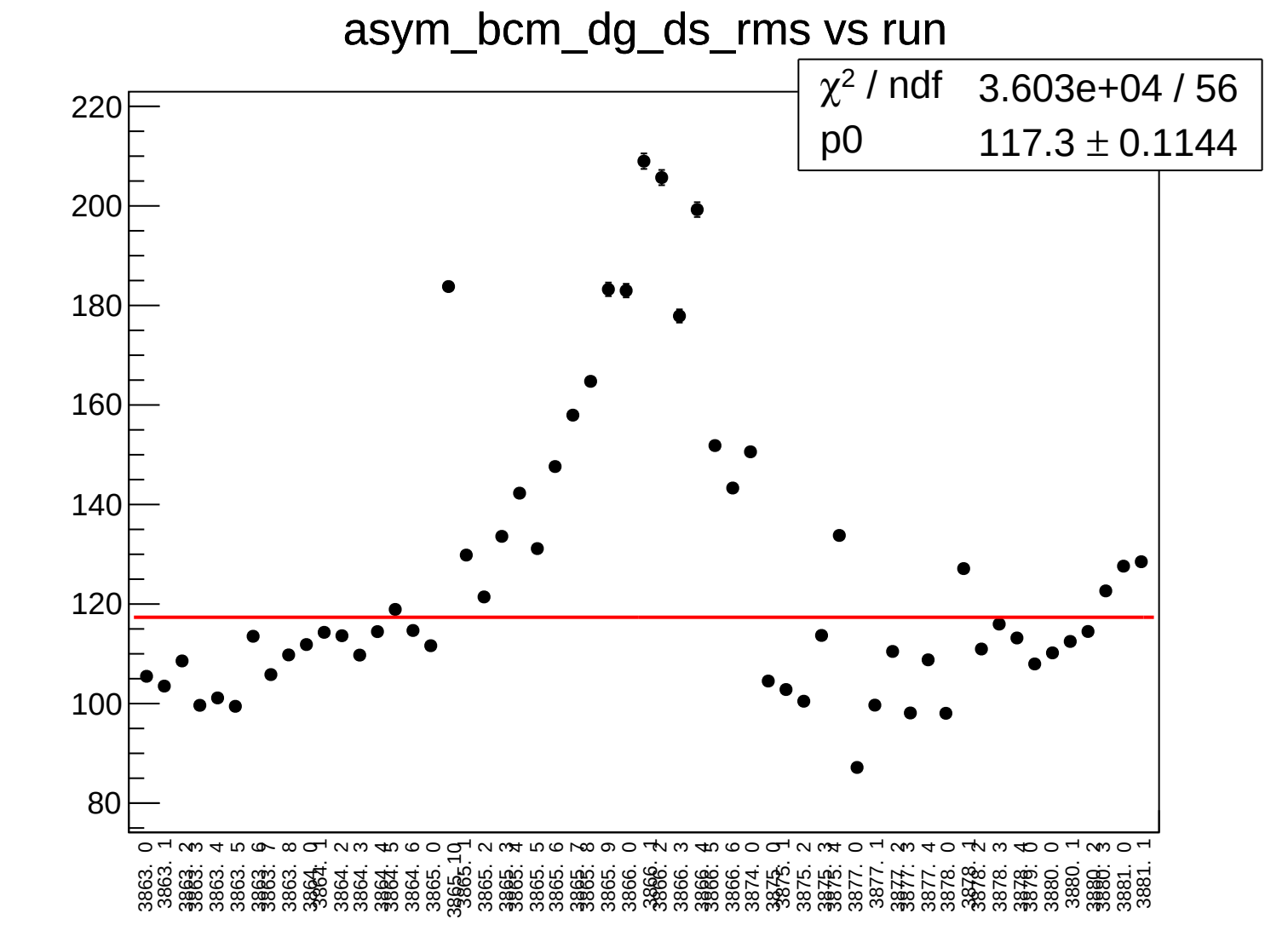

asym_bcm_dg_us_mean vs run
χ² / ndf 11.31 / 56
p0 −75.57 ± 172.5
pull
Entries 57
Mean 46.1
Std Dev 34.93

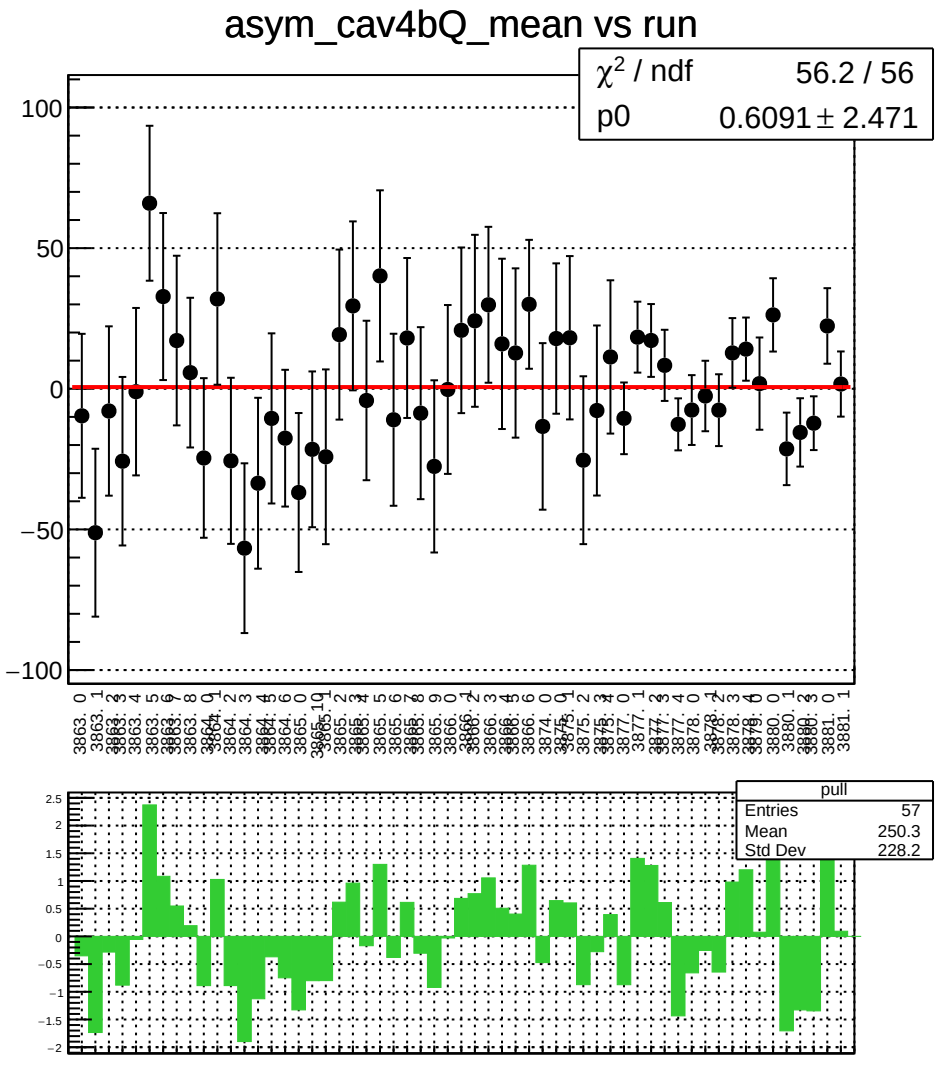

pull1D
Entries 57
Mean 0.01425
Std Dev 0.4451

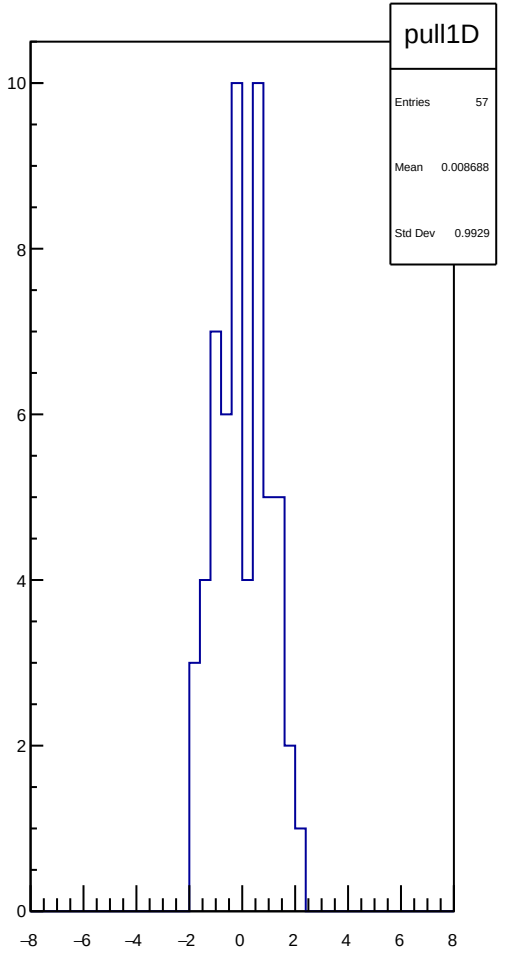

asym_bcm_dg_us_rms vs run
χ² / ndf 3.609e+04 / 56
p0 125.1 ± 0.122
220
200
180
160
140
120
100
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

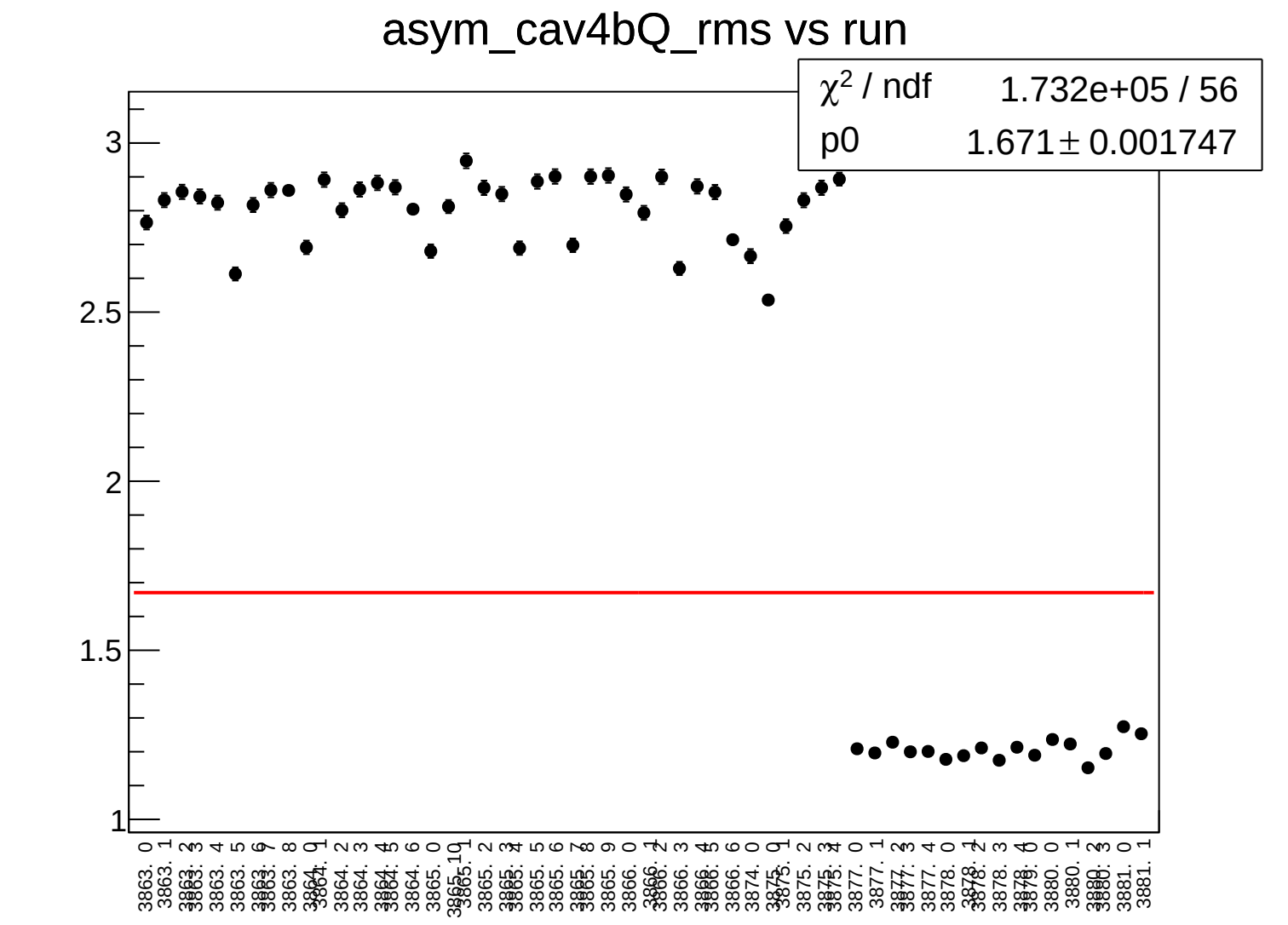

asym_bcm_dg_ds_mean vs run
χ² / ndf 6.146 / 56
p0 −22.82 ± 161.8
pull
Entries 57
Mean −11.5
Std Dev 42.85

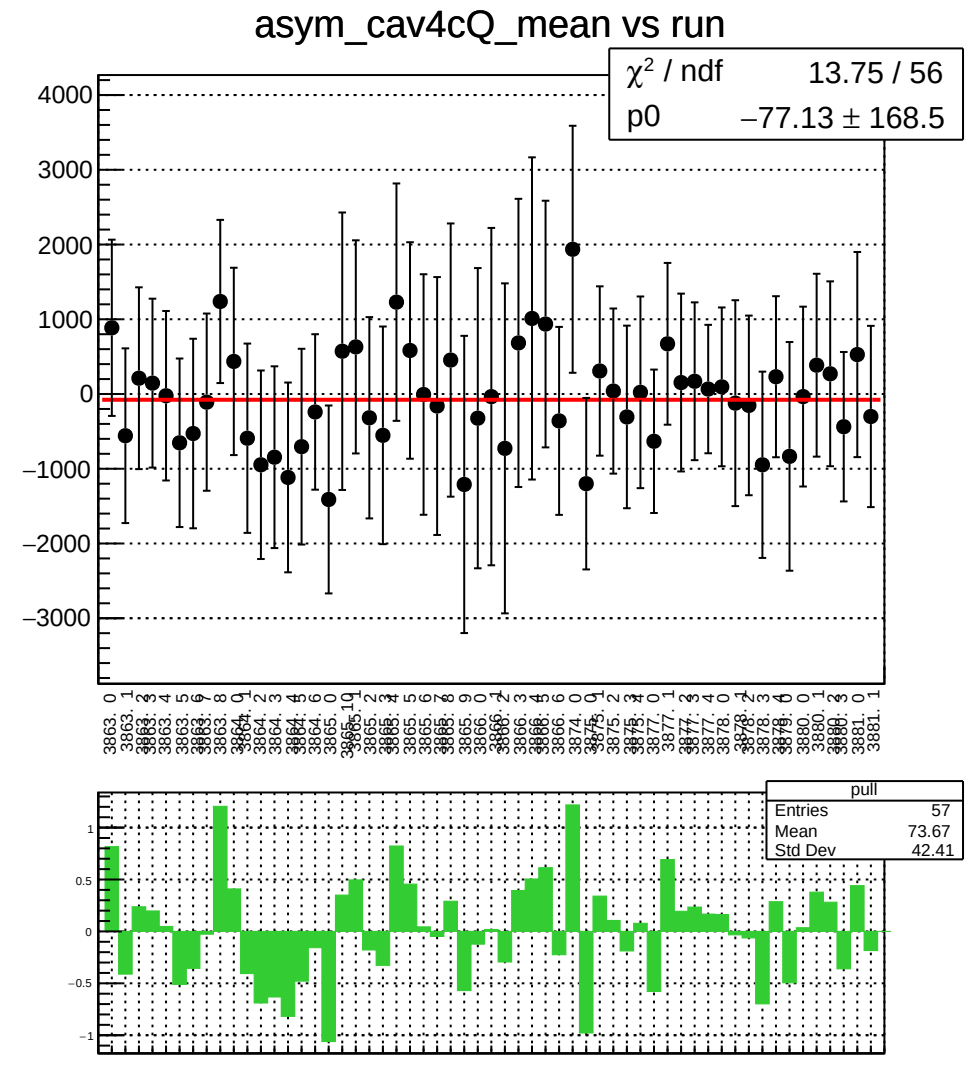

pull1D
Entries 57
Mean 0.006946
Std Dev 0.3283

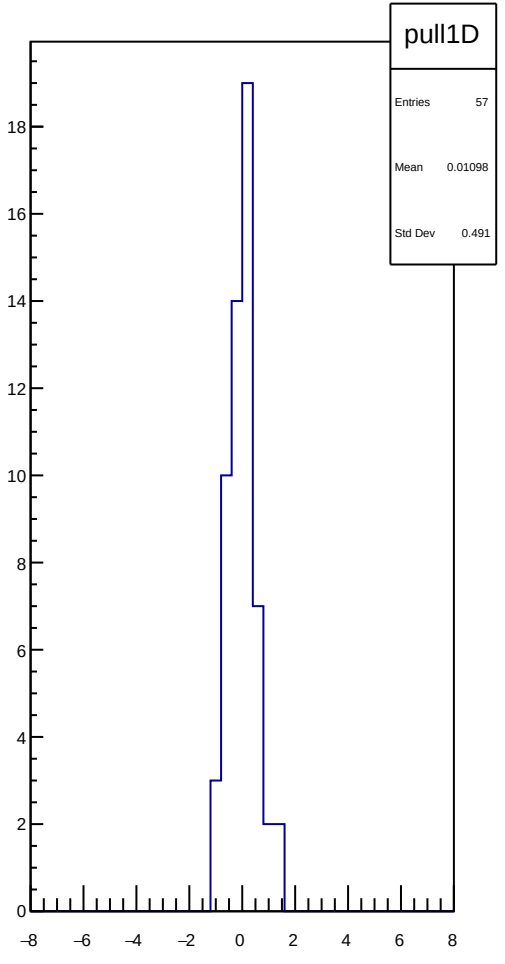

asym_bcm_dg_ds_rms vs run
χ² / ndf 3.603e+04 / 56
p0 117.3 ± 0.1144
220
200
180
160
140
120
100
80

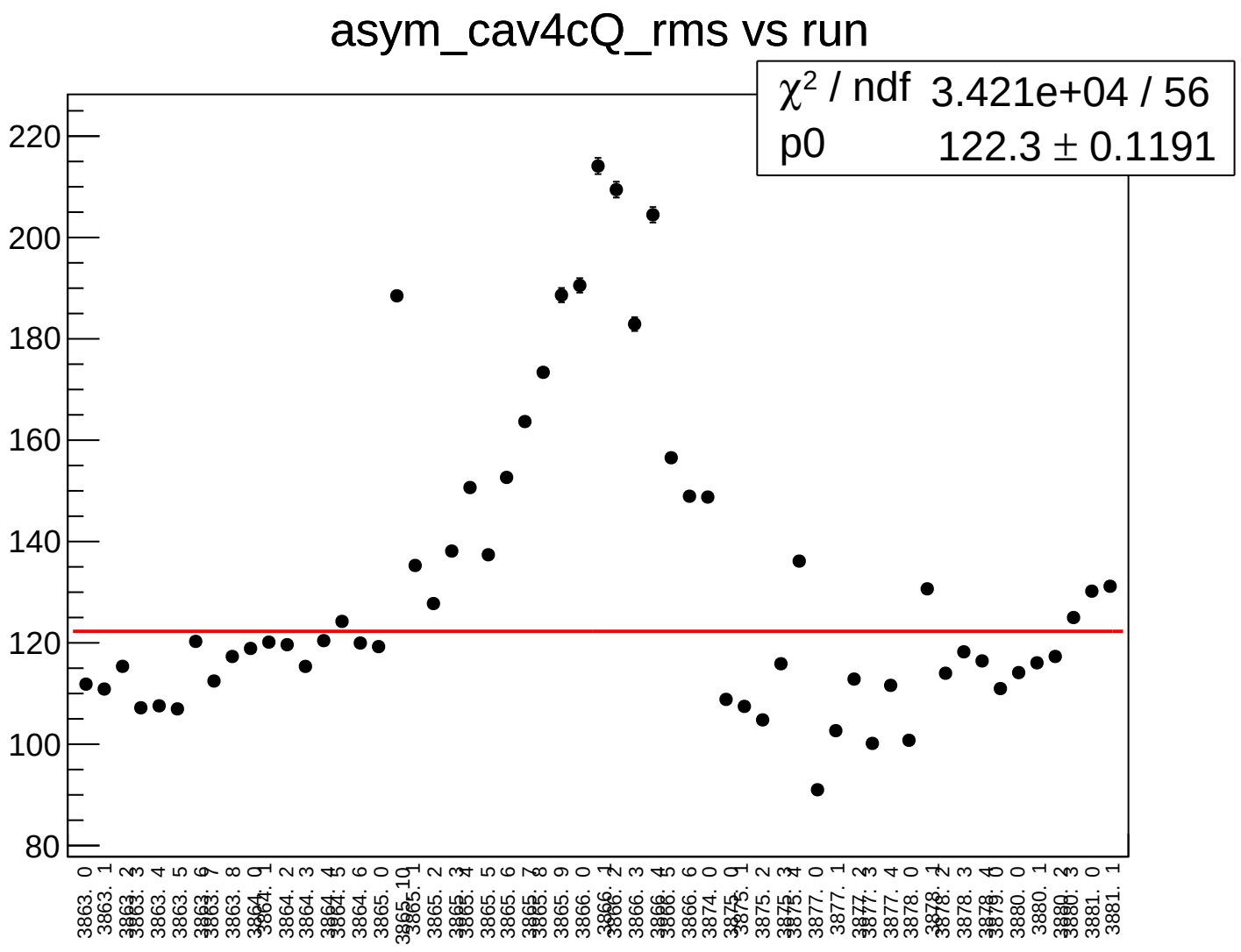

asym_cav4bQ_mean vs run
χ² / ndf 56.2 / 56
p0 0.6091 ± 2.471
100
50
0
−50
−100
pull
Entries 57
Mean 250.3
Std Dev 228.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

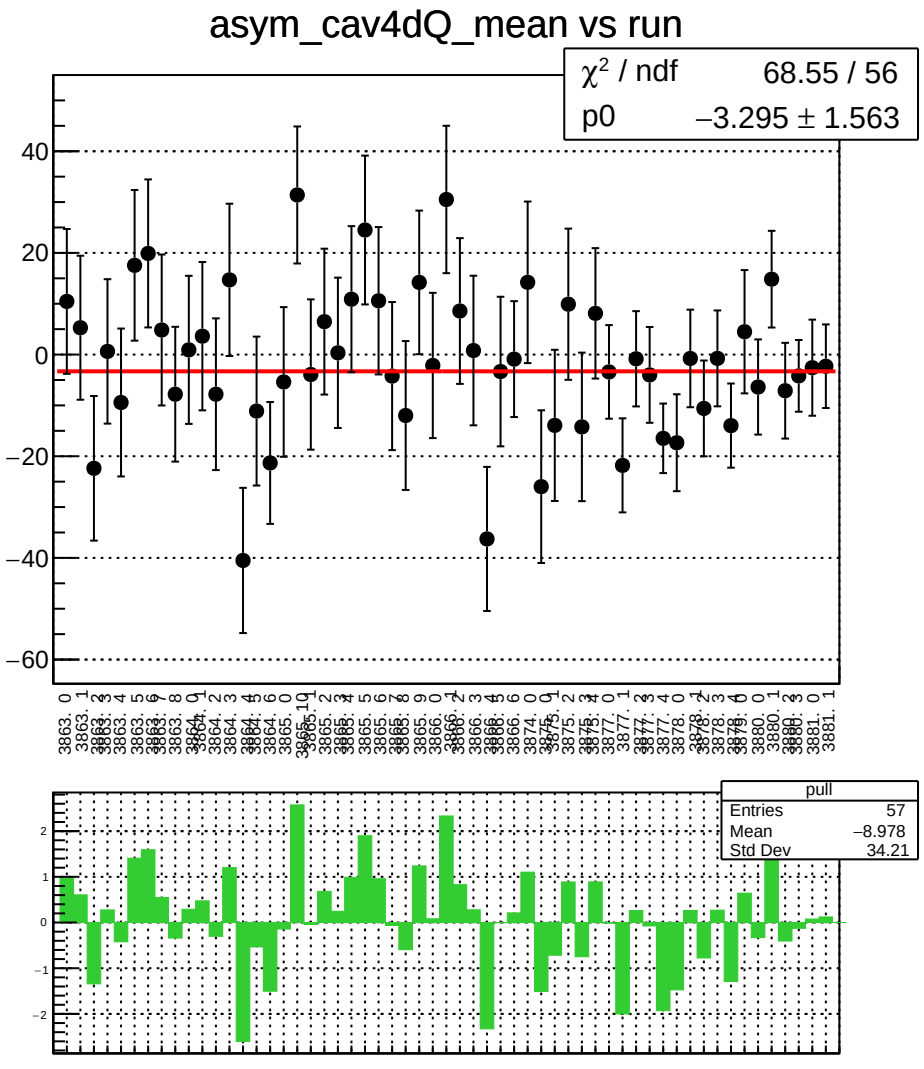

pull1D
Entries 57
Mean 0.008688
Std Dev 0.9929
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

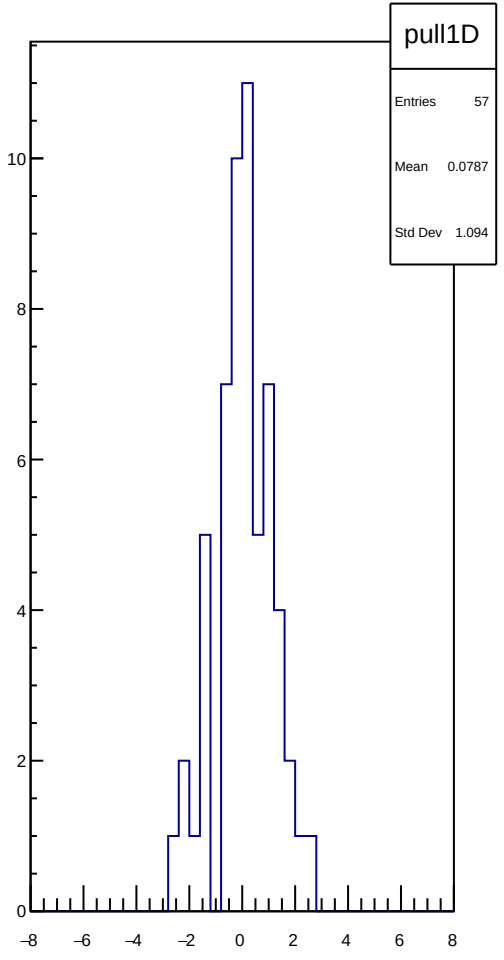

asym_cav4bQ_rms vs run
χ^2 / ndf 1.732e+05 / 56
p0 1.671 ± 0.001747
3
2.5
2
1.5
1

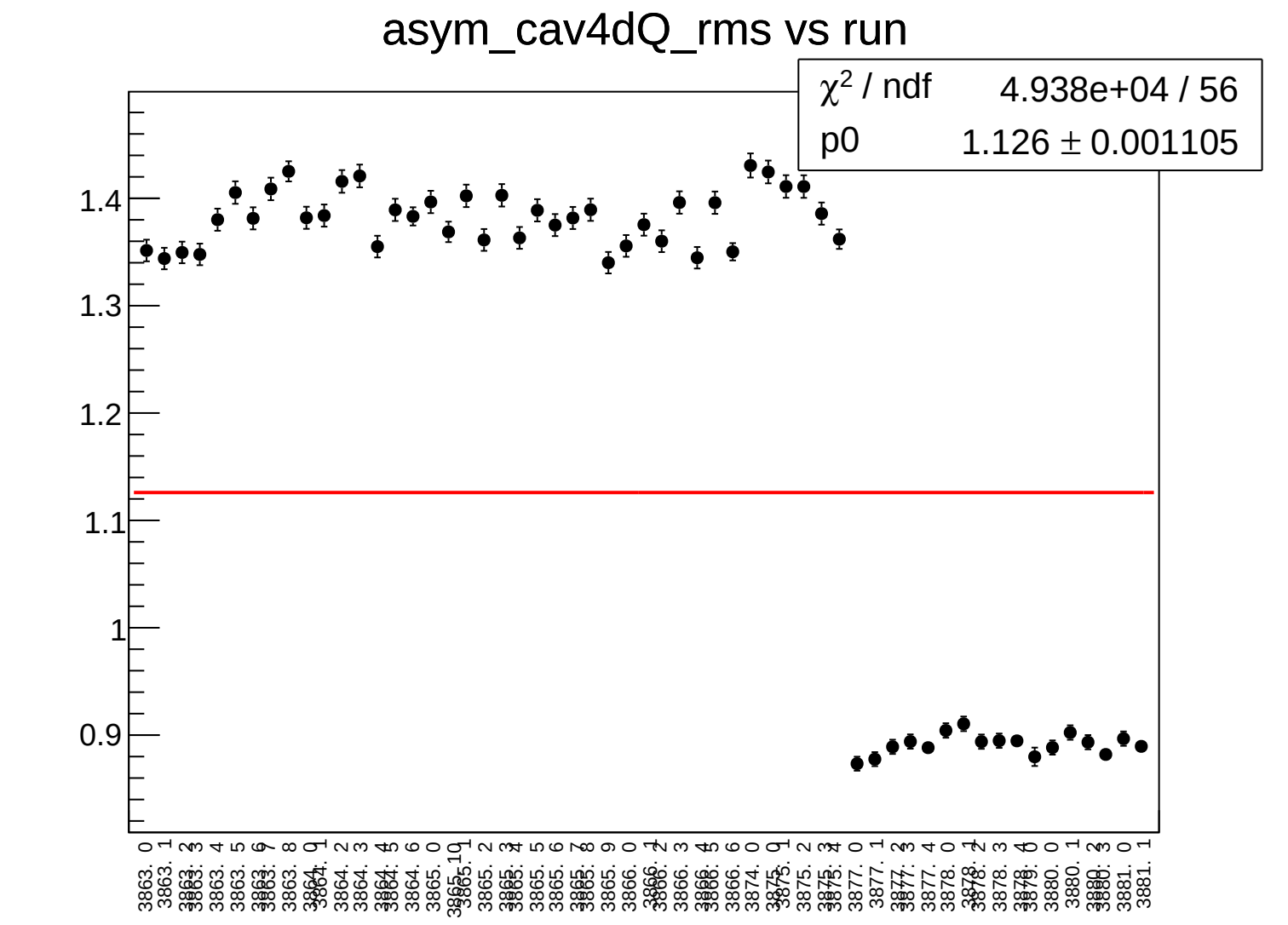

asym_cav4cQ_mean vs run
χ² / ndf 13.75 / 56
p0 −77.13 ± 168.5
pull
Entries 57
Mean 73.67
Std Dev 42.41

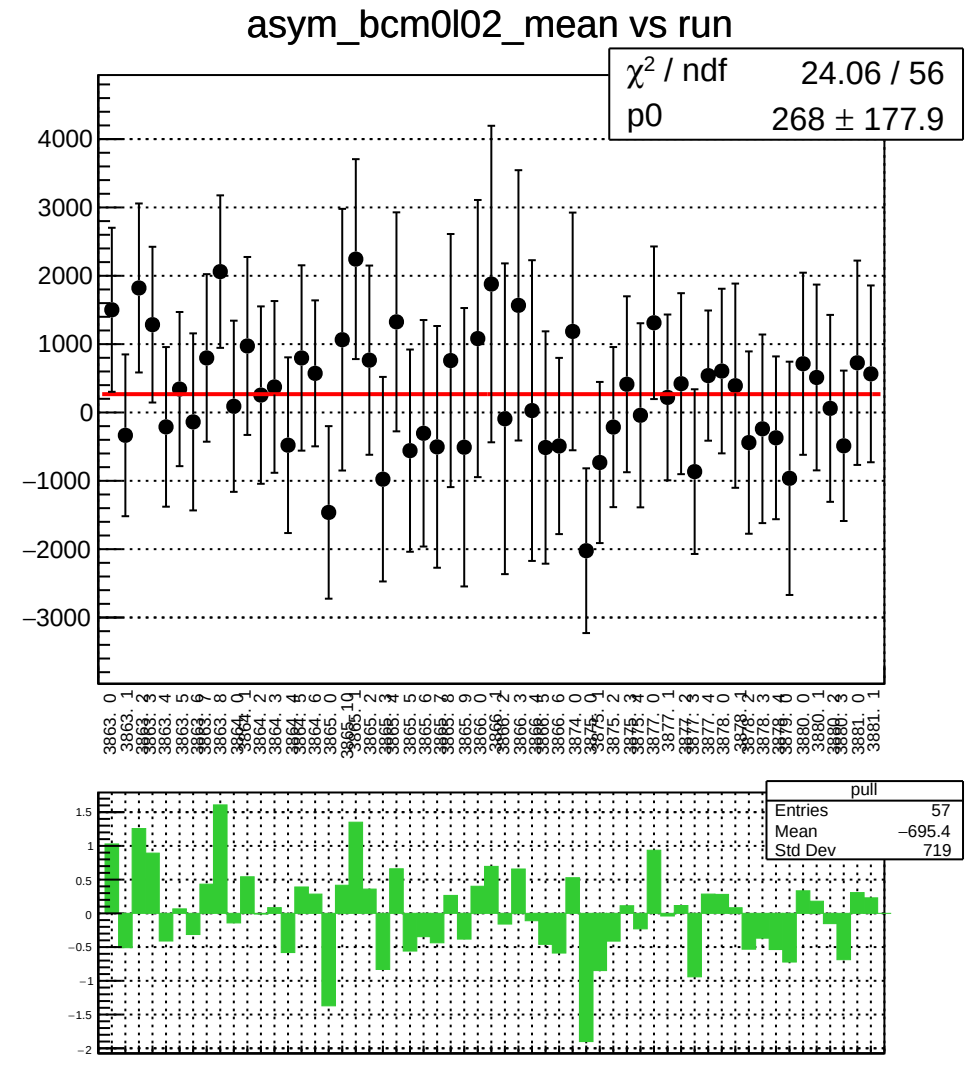

pull1D
Entries 57
Mean 0.01098
Std Dev 0.491

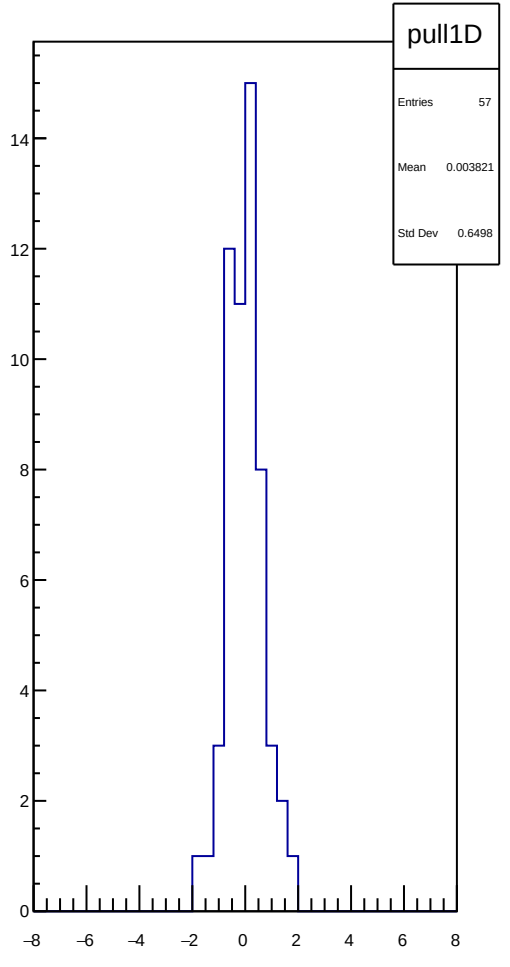

asym_cav4cQ_rms vs run
χ² / ndf 3.421e+04 / 56
p0 122.3 ± 0.1191
220
200
180
160
140
120
100
80

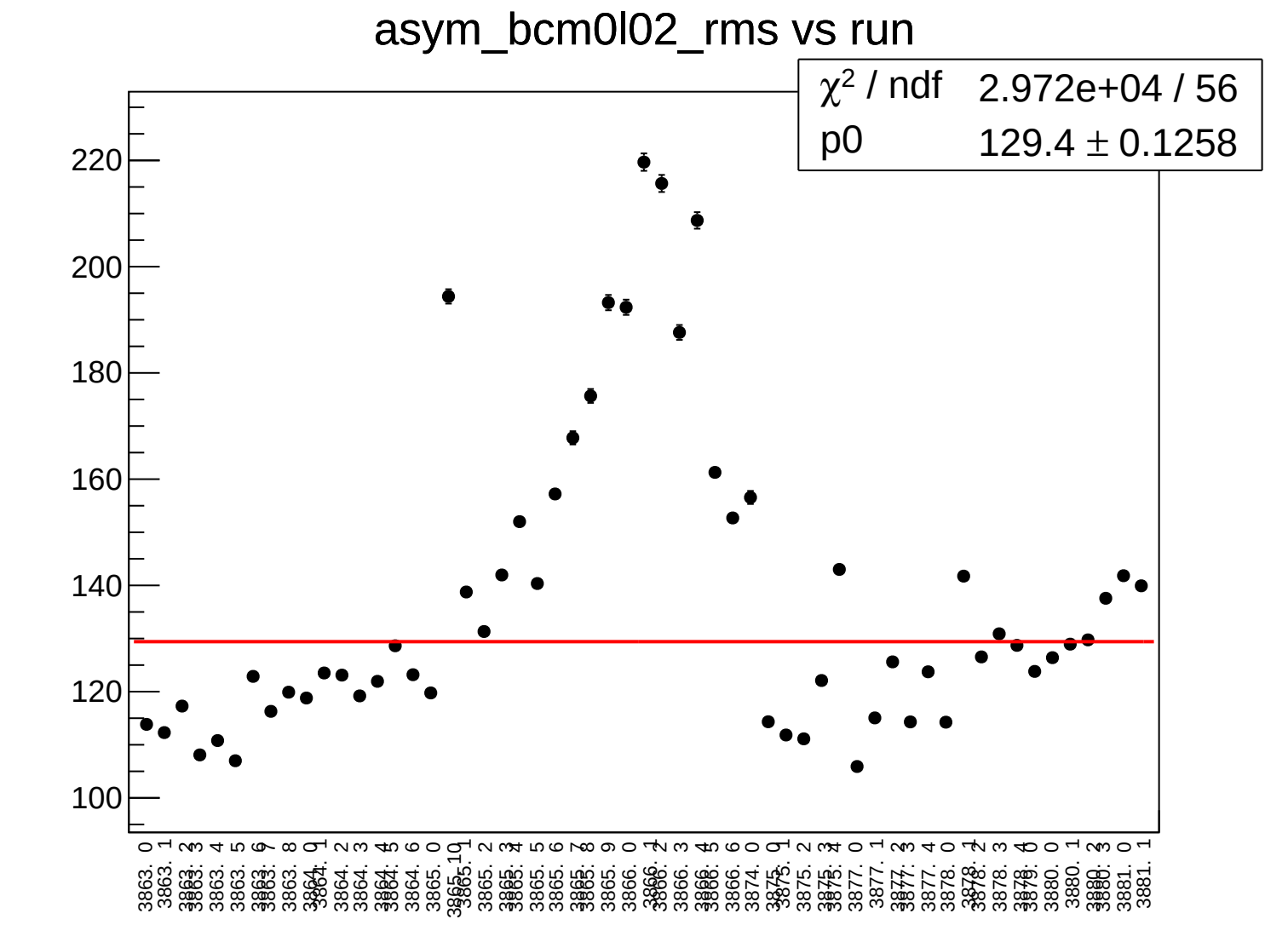

asym_cav4dQ_mean vs run
χ² / ndf 68.55 / 56
p0 −3.295 ± 1.563
pull
Entries 57
Mean −8.978
Std Dev 34.21

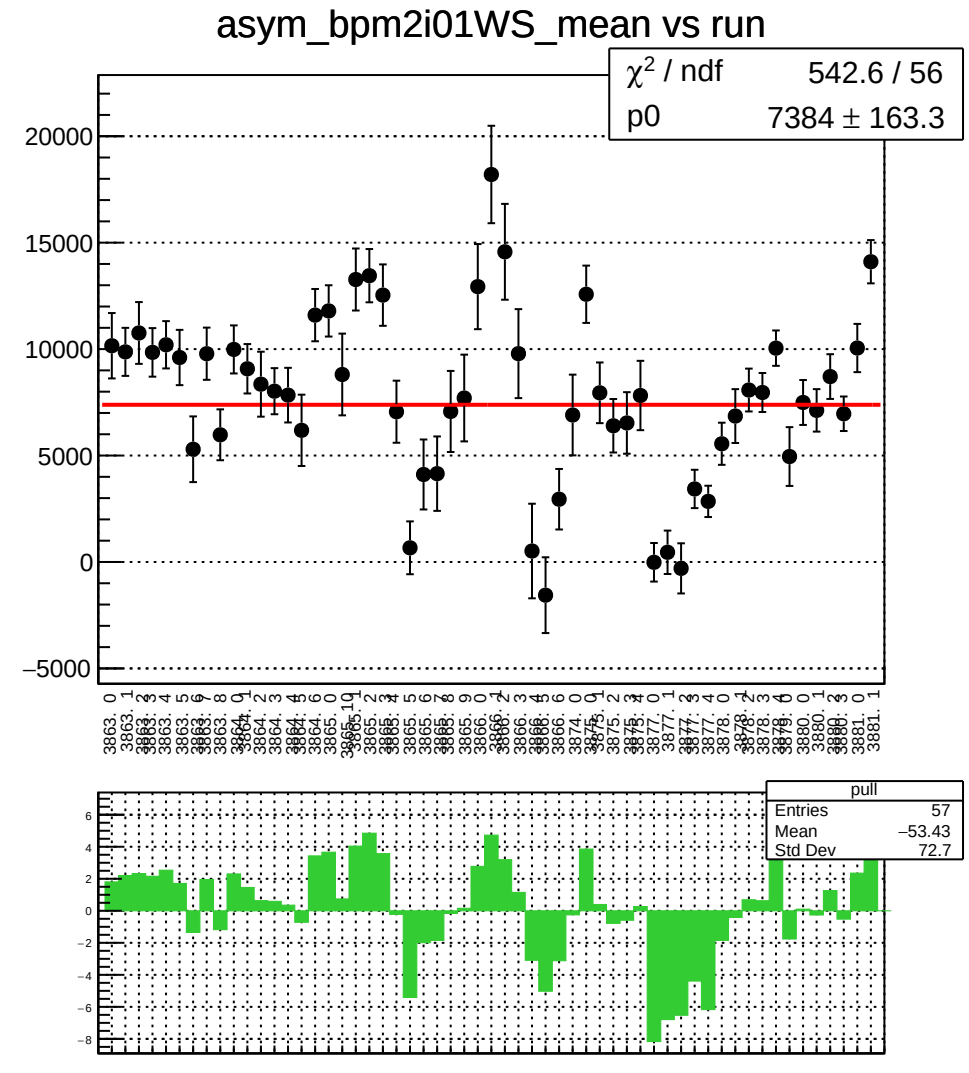

pull1D
Entries 57
Mean 0.0787
Std Dev 1.094

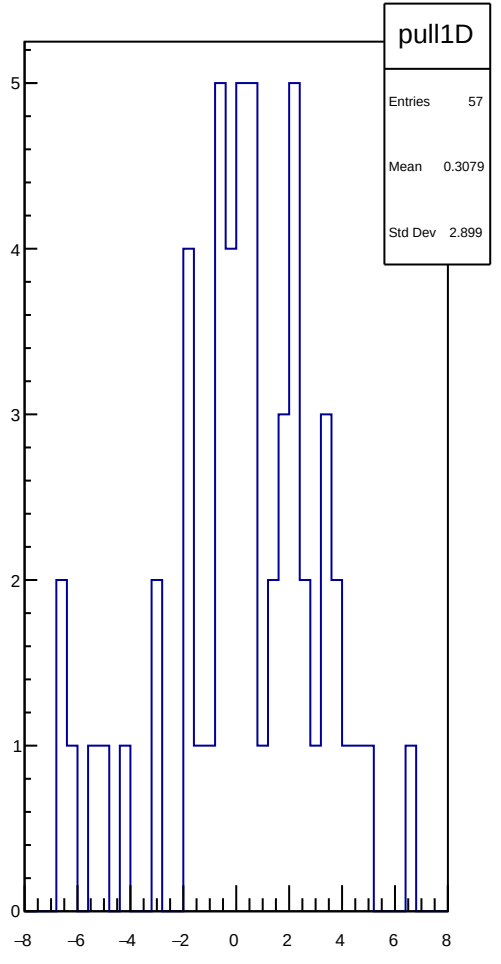

asym_cav4dQ_rms vs run
χ² / ndf 4.938e+04 / 56
p0 1.126 ± 0.001105
1.4
1.3
1.2
1.1
1
0.9
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

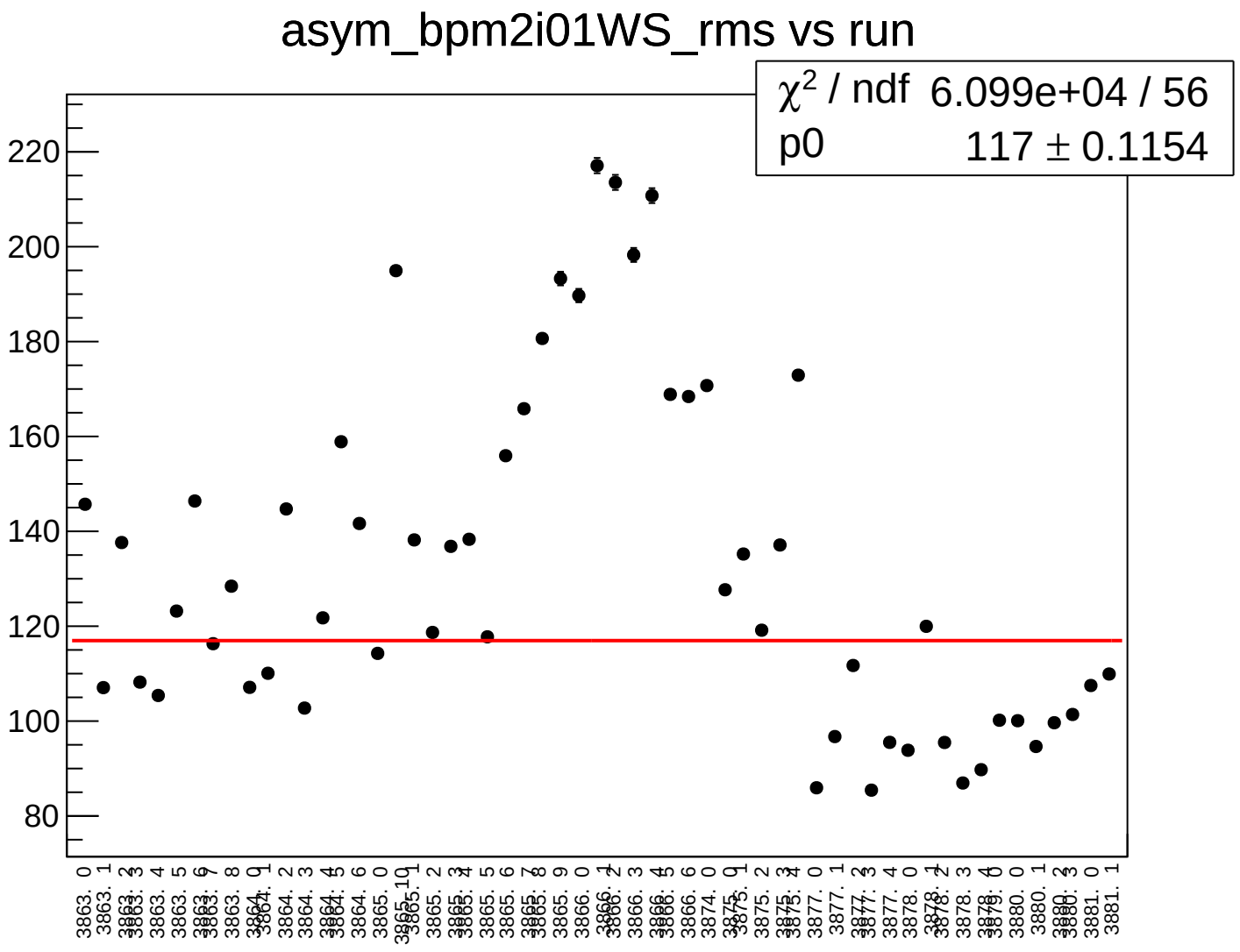

asym_bcm0l02_mean vs run
χ² / ndf 24.06 / 56
p0 268 ± 177.9
pull
Entries 57
Mean −695.4
Std Dev 719

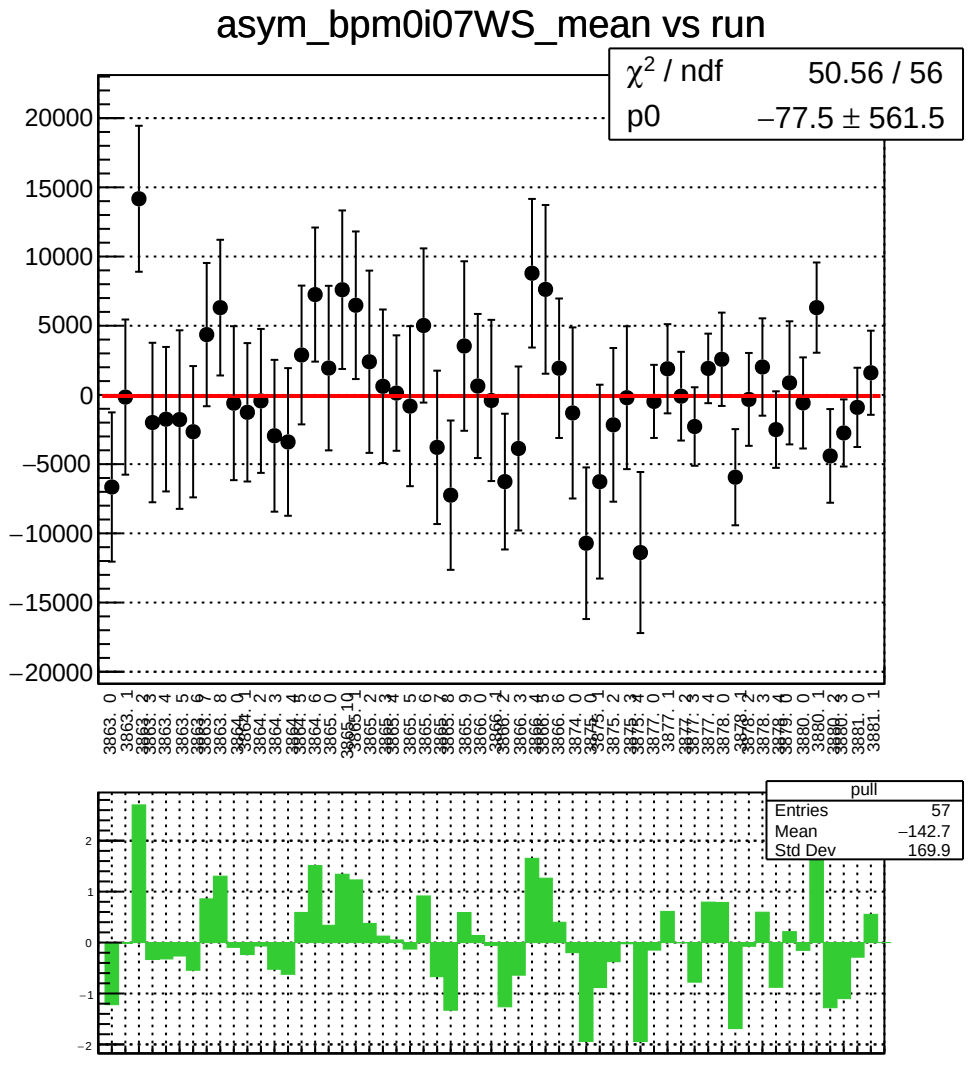

pull1D
Entries 57
Mean 0.003821
Std Dev 0.6498

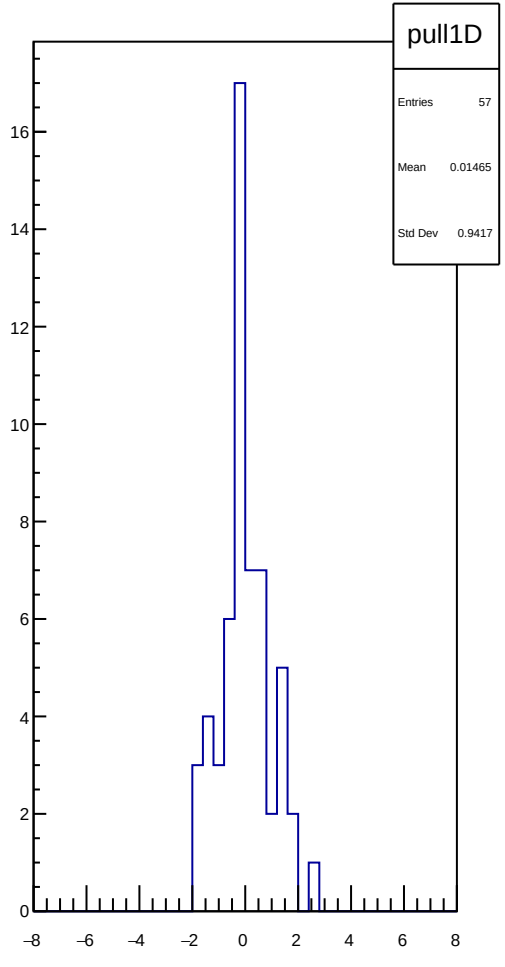

asym_bcm0l02_rms vs run
χ² / ndf 2.972e+04 / 56
p0 129.4 ± 0.1258
220
200
180
160
140
120
100
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

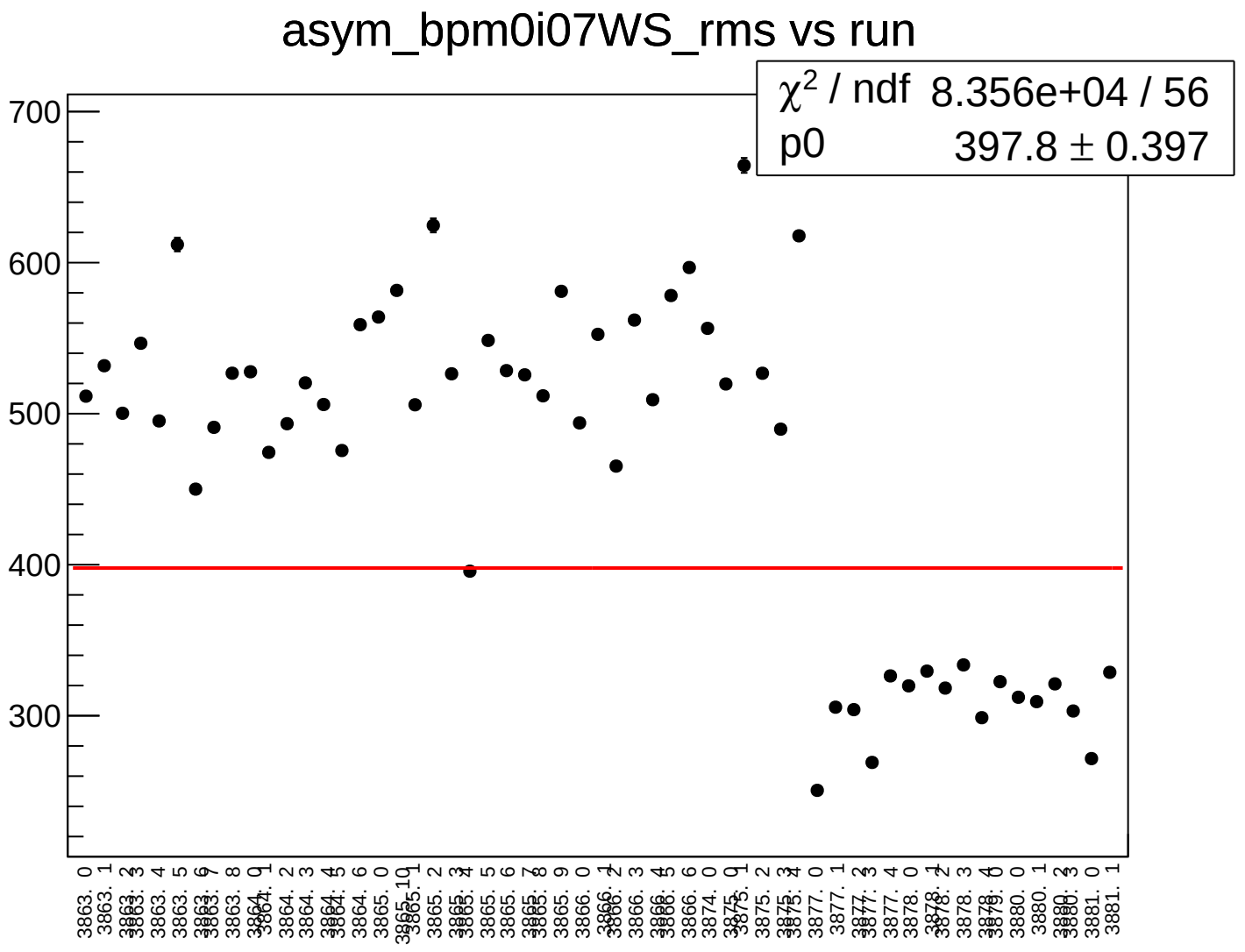

asym_bpm2i01WS_mean vs run
χ² / ndf 542.6 / 56
p0 7384 ± 163.3
20000
15000
10000
5000
0
−5000
pull
Entries 57
Mean −53.43
Std Dev 72.7
6
4
2
0
−2
−4
−6
−8

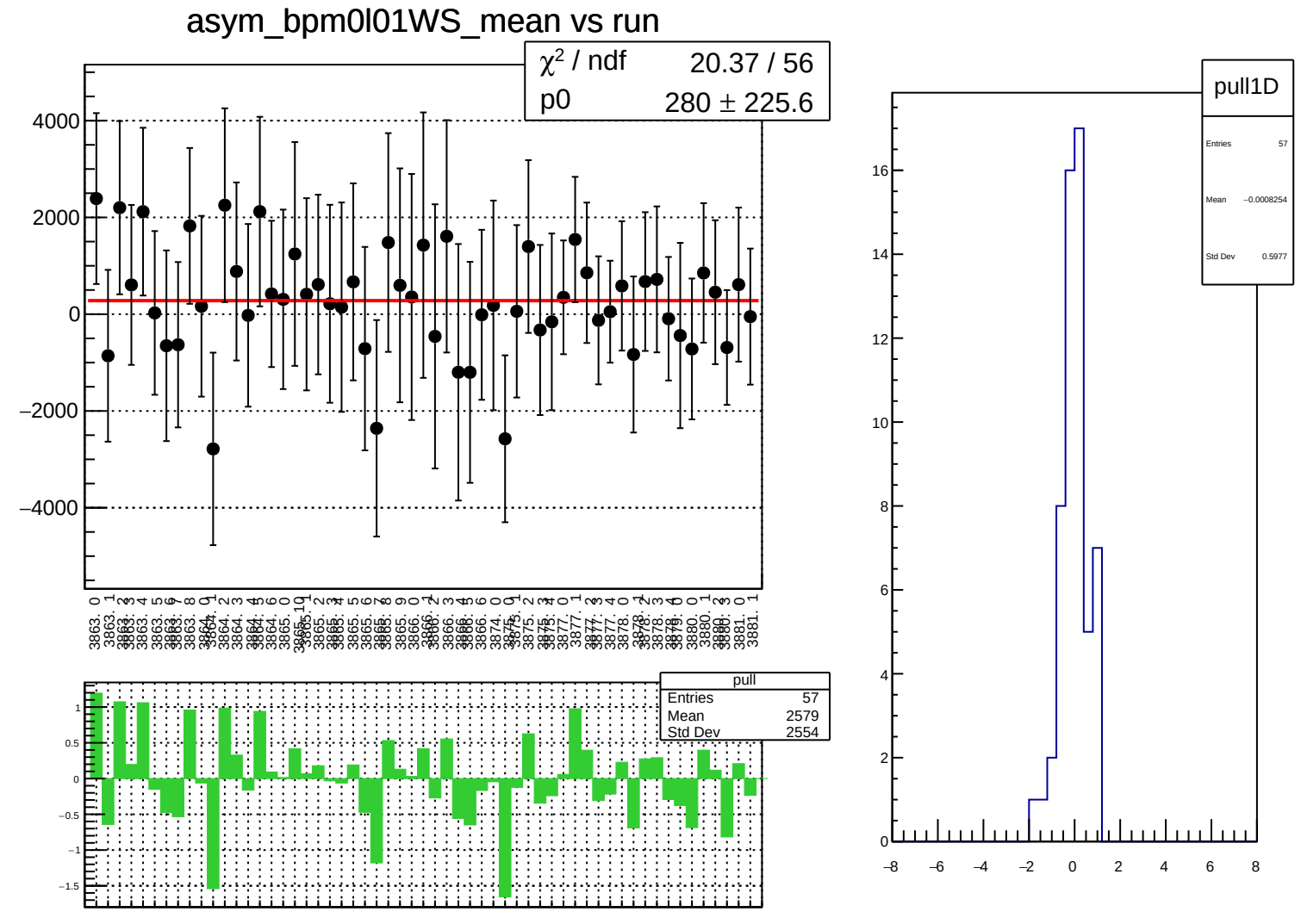

pull1D
Entries 57
Mean 0.3079
Std Dev 2.899
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

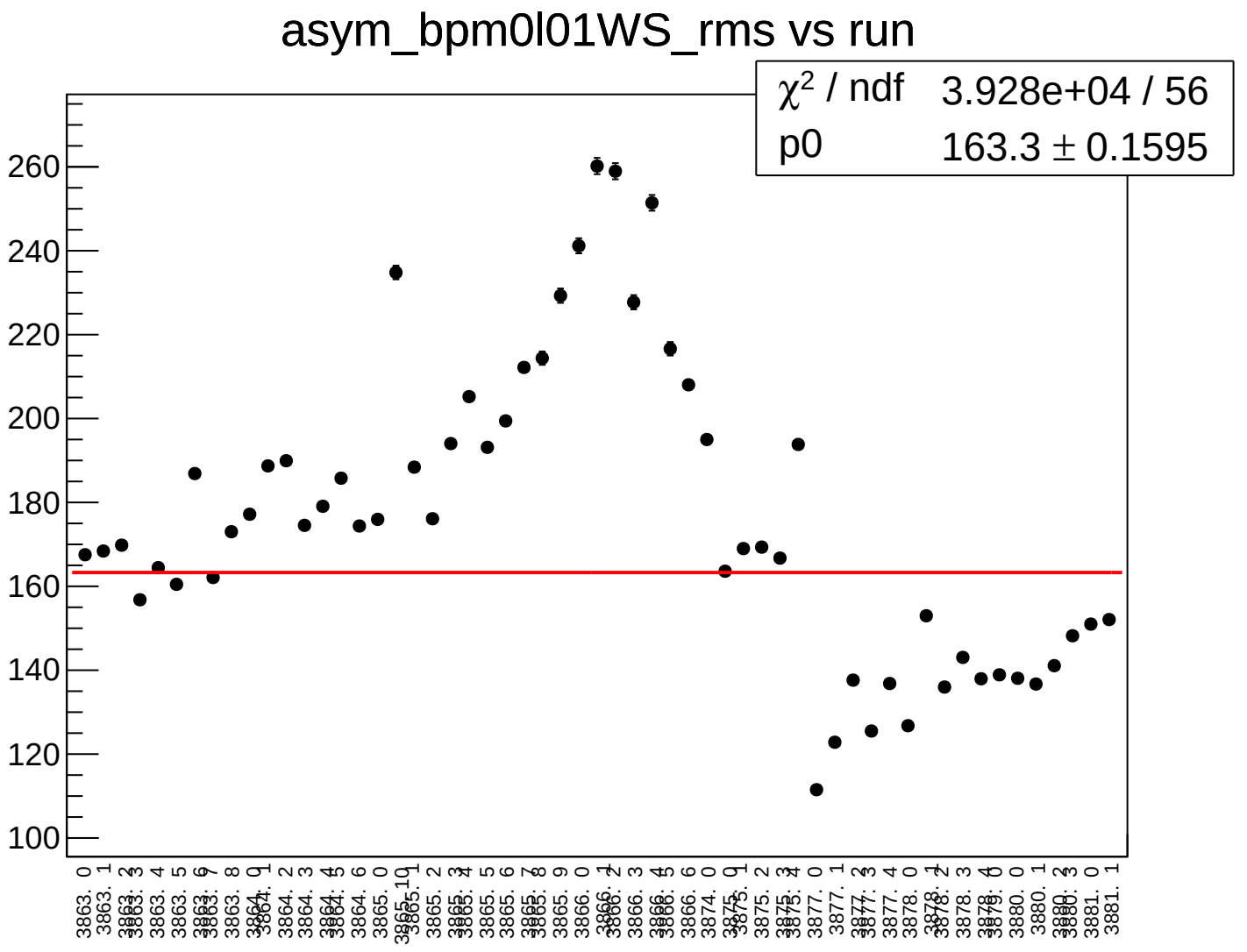

asym_bpm2i01WS_rms vs run
χ^2 / ndf 6.099e+04 / 56
p0 117 ± 0.1154
220
200
180
160
140
120
100
80

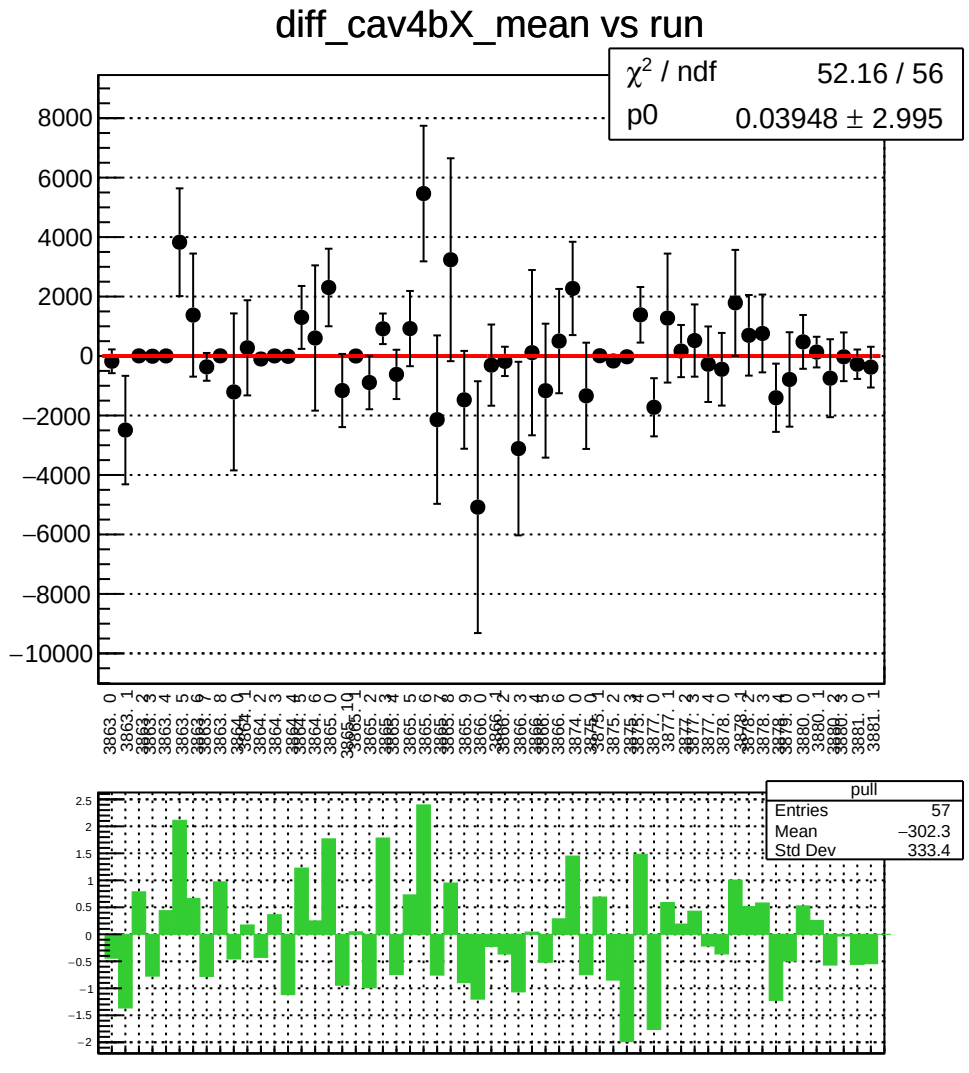

asym_bpm0i07WS_mean vs run
χ^2 / ndf 50.56 / 56
p0 −77.5 ± 561.5
pull
Entries 57
Mean −142.7
Std Dev 169.9

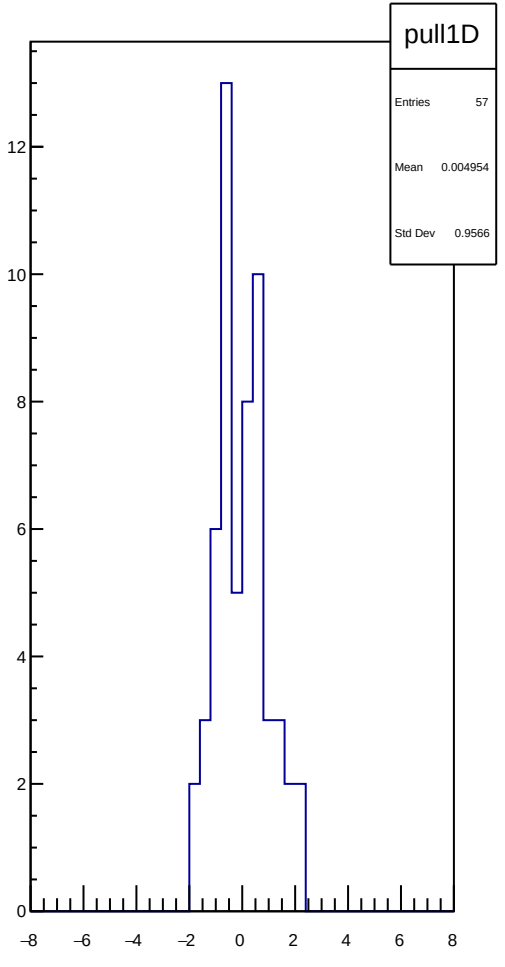

pull1D
Entries 57
Mean 0.01465
Std Dev 0.9417

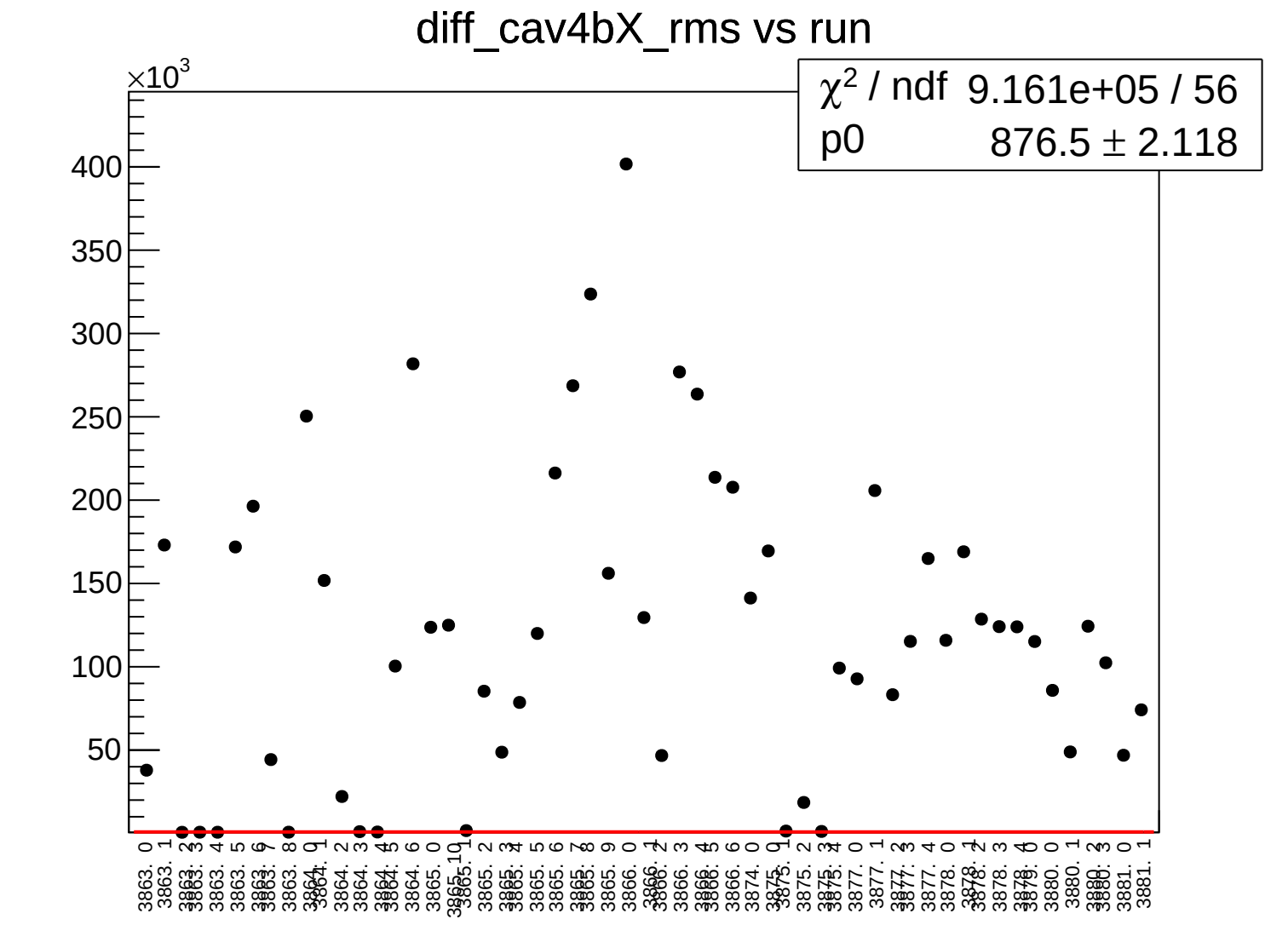

asym_bpm0i07WS_rms vs run
χ² / ndf 8.356e+04 / 56
p0 397.8 ± 0.397
700
600
500
400
300

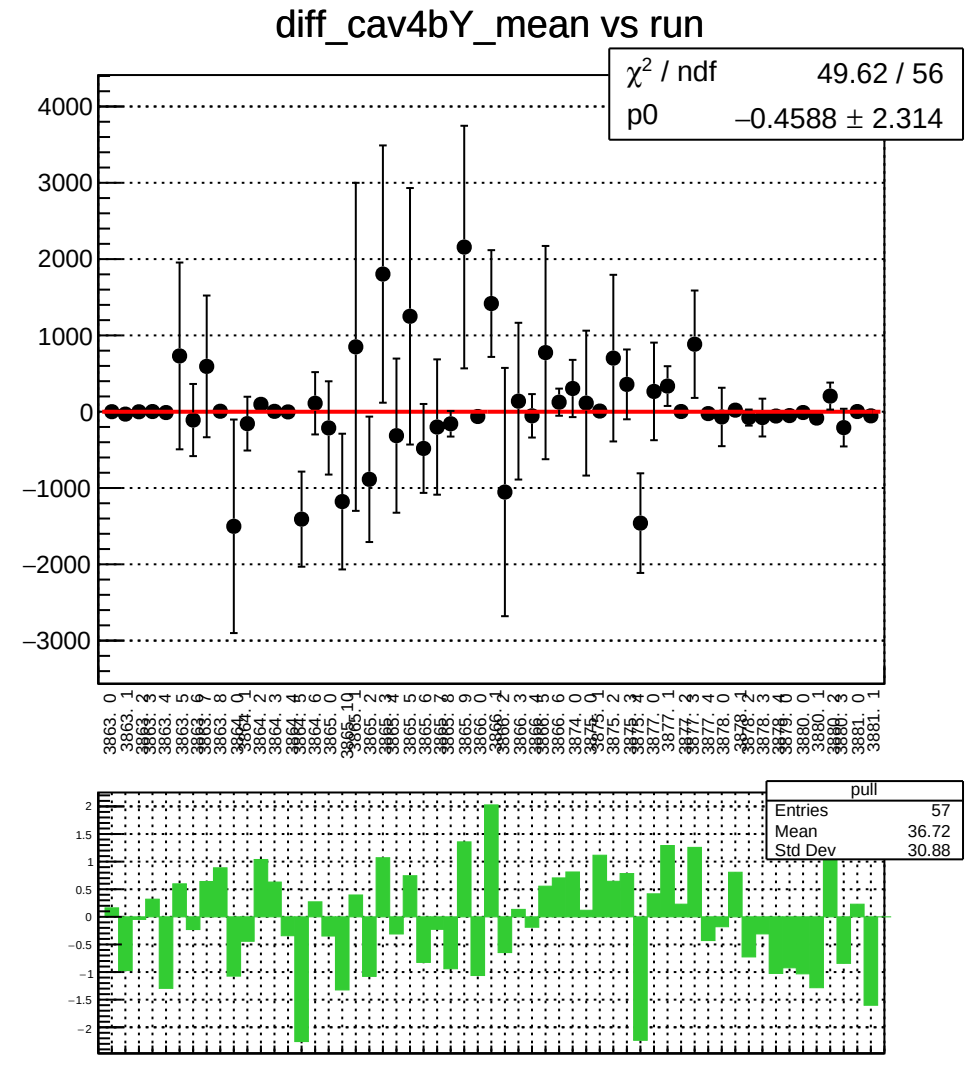

asym_bpm0l01WS_mean vs run
χ² / ndf 20.37 / 56
p0 280 ± 225.6
4000
2000
0
−2000
−4000
pull
Entries 57
Mean 2579
Std Dev 2554
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 57
Mean −0.0008254
Std Dev 0.5977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

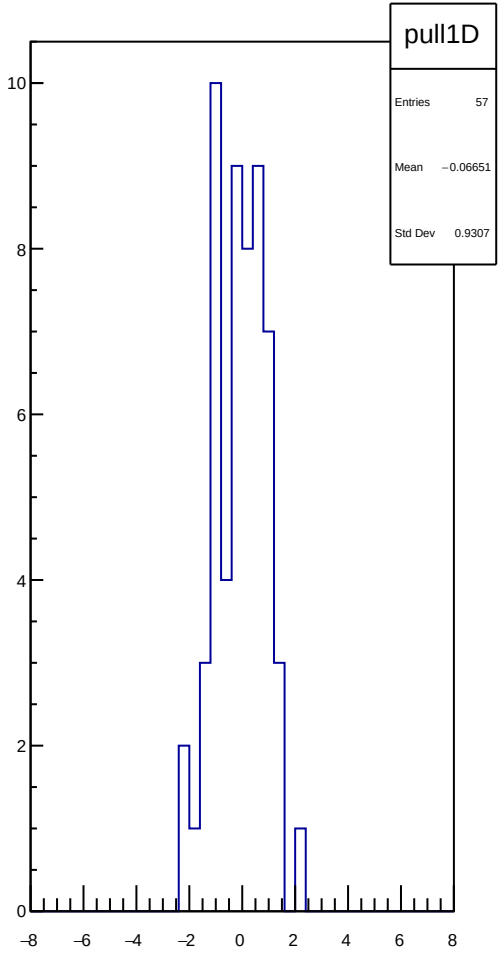

asym_bpm0l01WS_rms vs run
χ² / ndf 3.928e+04 / 56
p0 163.3 ± 0.1595
260
240
220
200
180
160
140
120
100
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

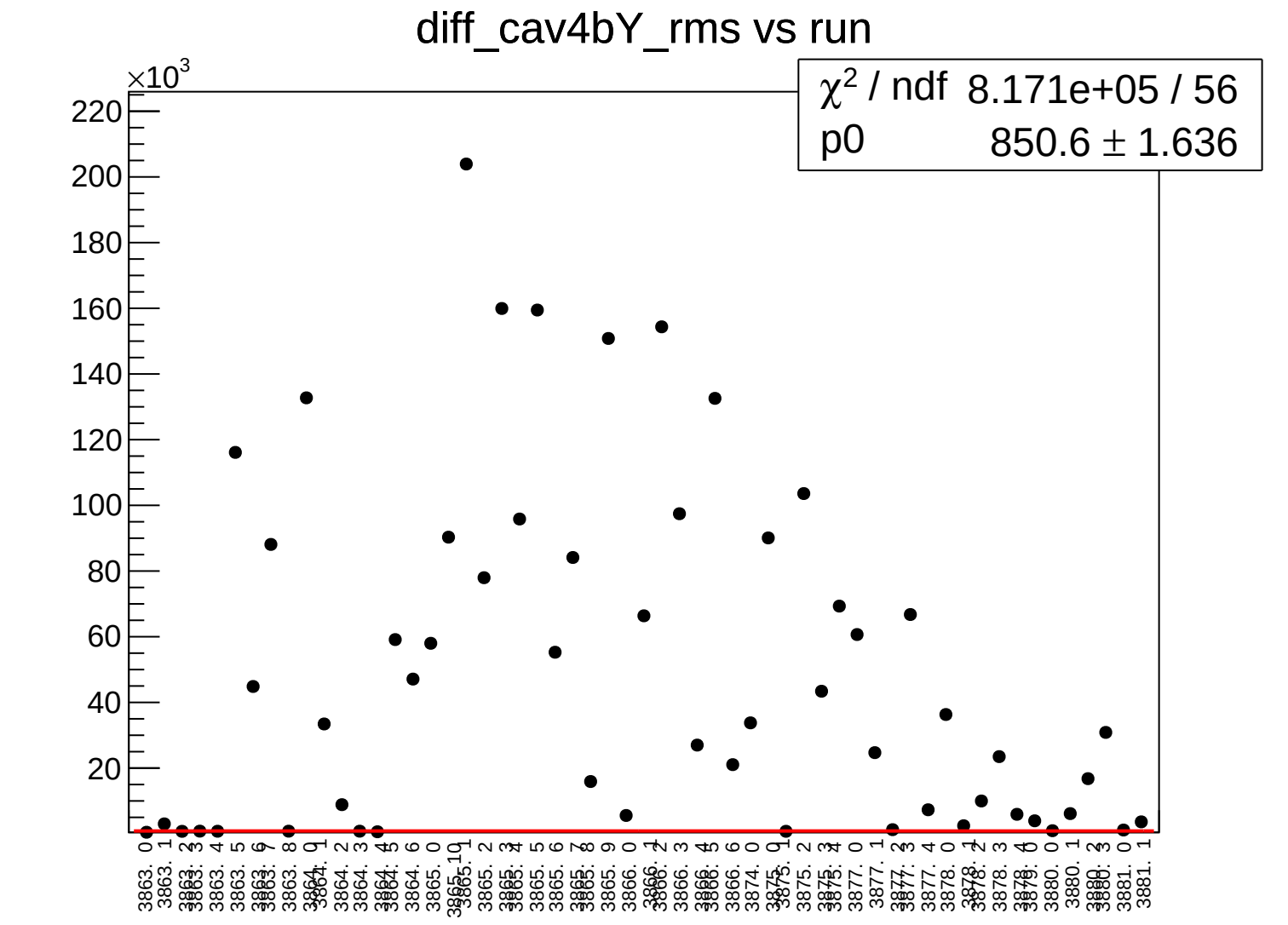

diff_cav4bX_mean vs run
χ² / ndf 52.16 / 56
p0 0.03948 ± 2.995
pull
Entries 57
Mean −302.3
Std Dev 333.4

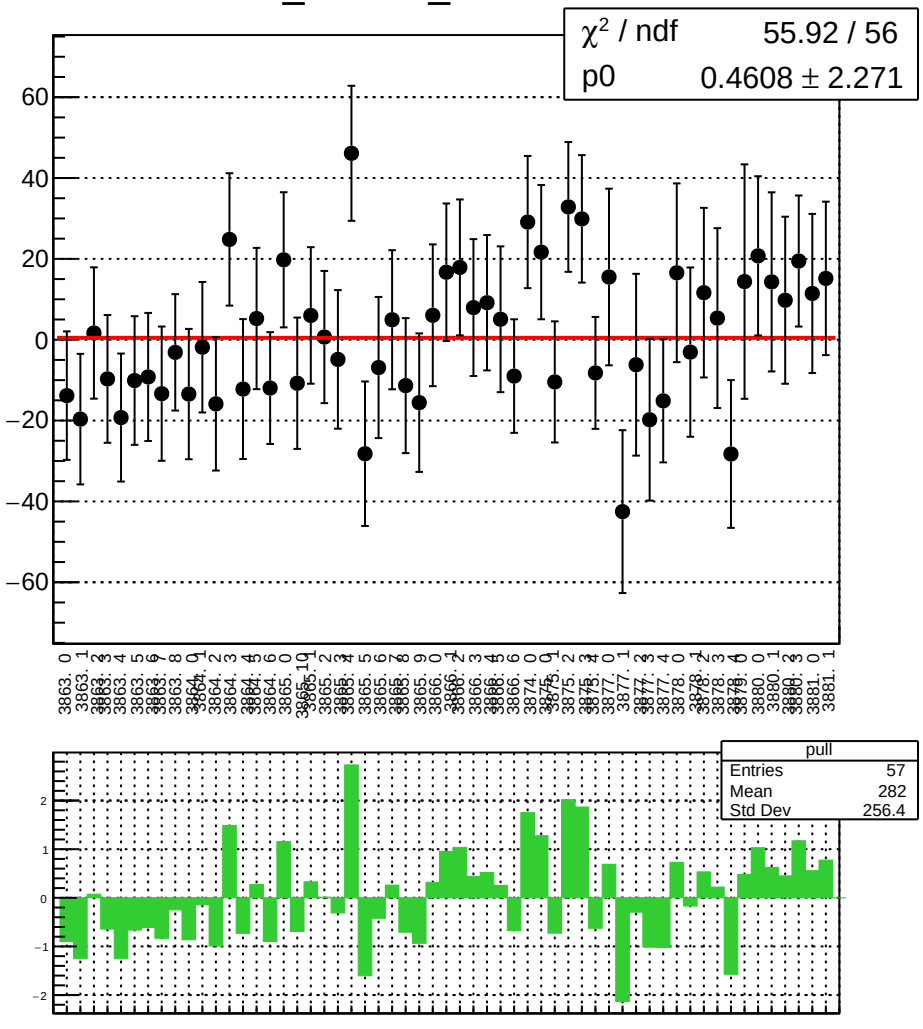

pull1D
Entries 57
Mean 0.004954
Std Dev 0.9566

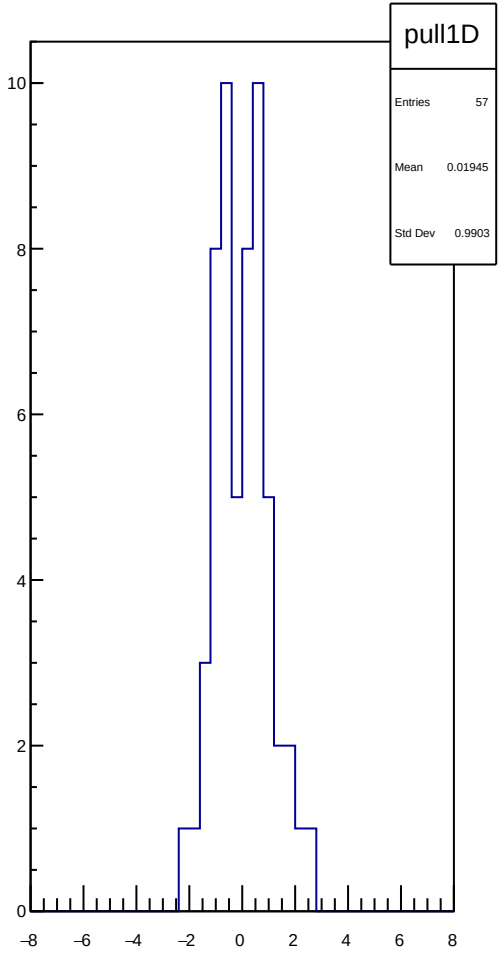

diff_cav4bX_rms vs run
×10^3
χ^2 / ndf 9.161e+05 / 56
p0 876.5 ± 2.118
400
350
300
250
200
150
100
50
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

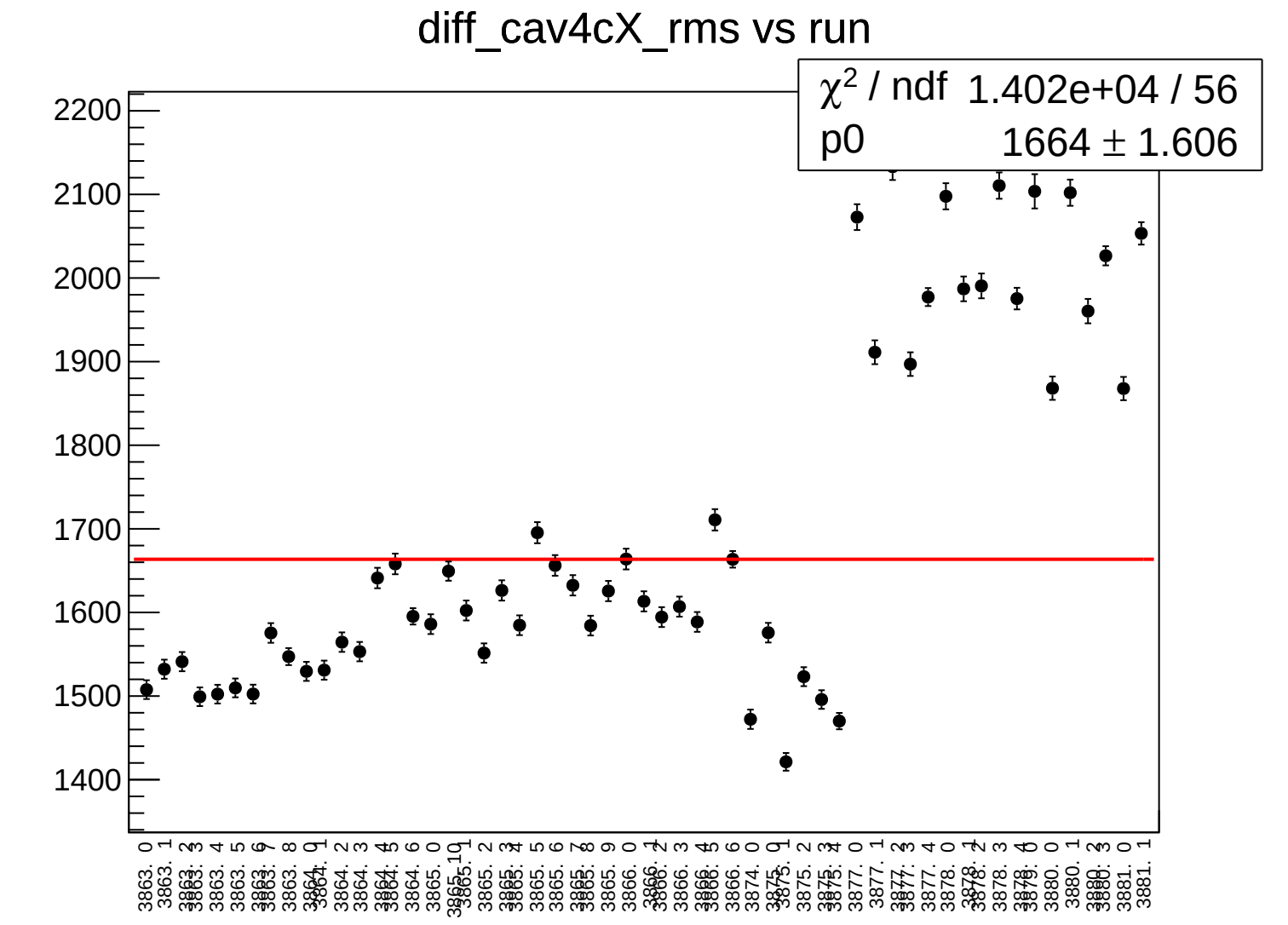

diff_cav4bY_mean vs run
χ² / ndf 49.62 / 56
p0 −0.4588 ± 2.314
pull
Entries 57
Mean 36.72
Std Dev 30.88

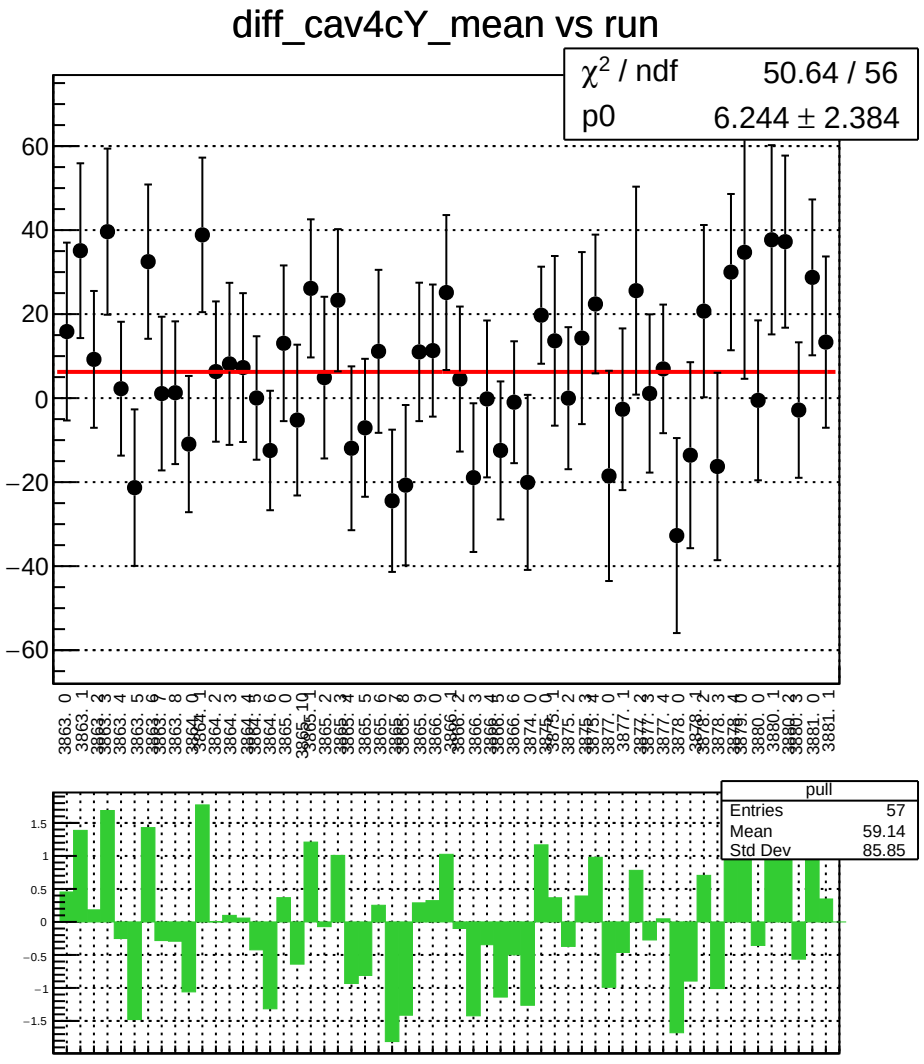

pull1D
Entries 57
Mean −0.06651
Std Dev 0.9307

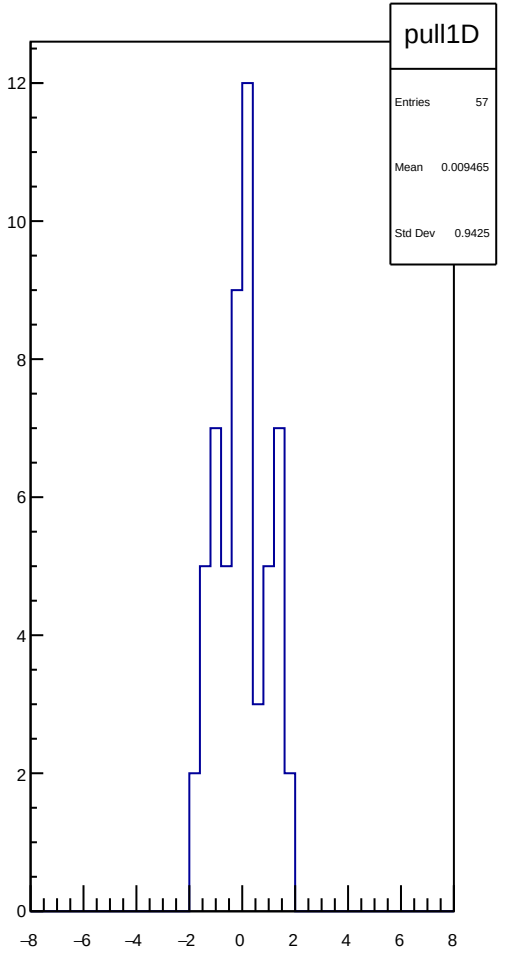

diff_cav4bY_rms vs run
×10^3
χ^2 / ndf 8.171e+05 / 56
p0 850.6 ± 1.636
220
200
180
160
140
120
100
80
60
40
20

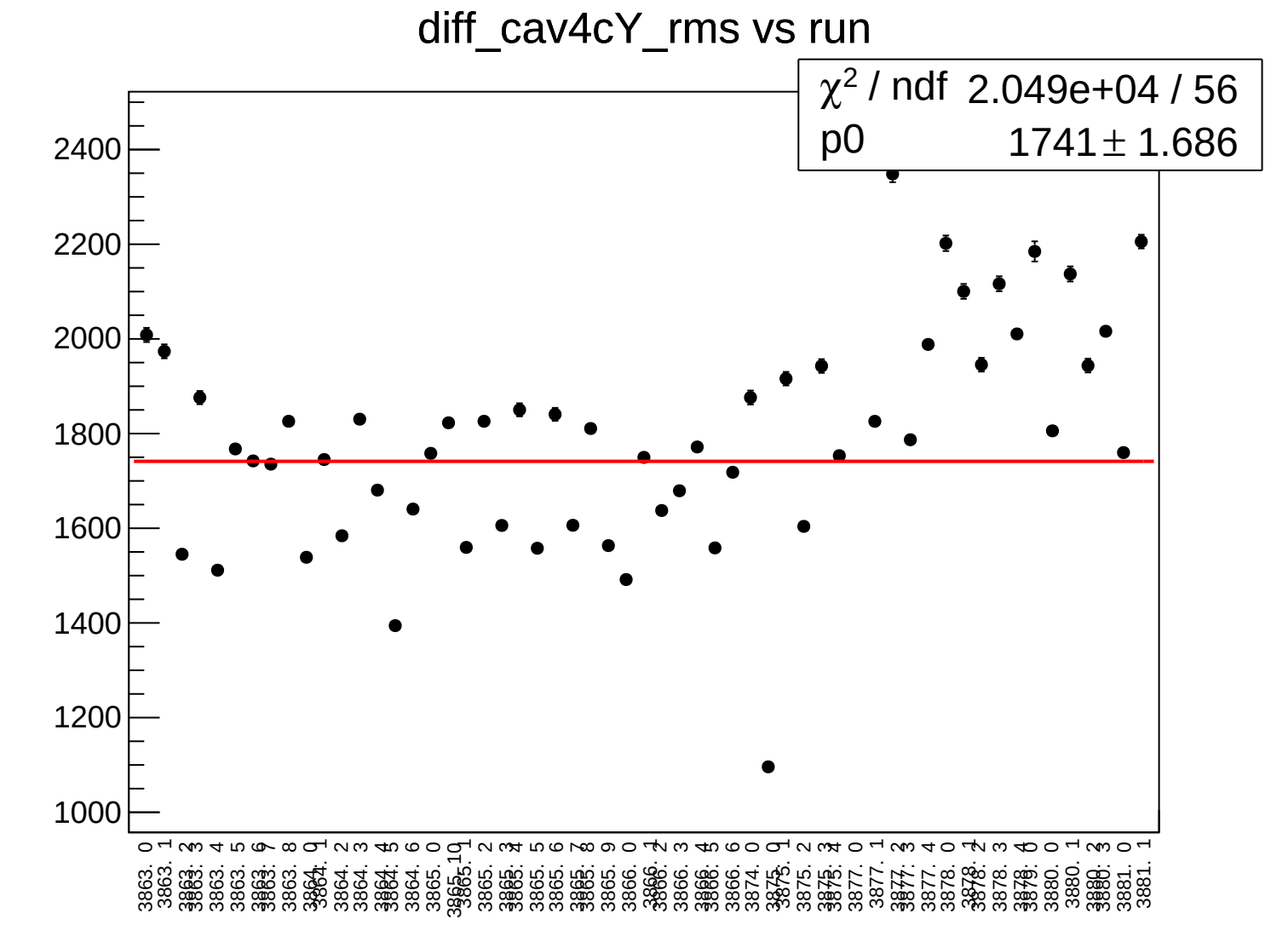

diff_cav4cX_mean vs run
χ² / ndf 55.92 / 56
p0 0.4608 ± 2.271
pull
Entries 57
Mean 282
Std Dev 256.4

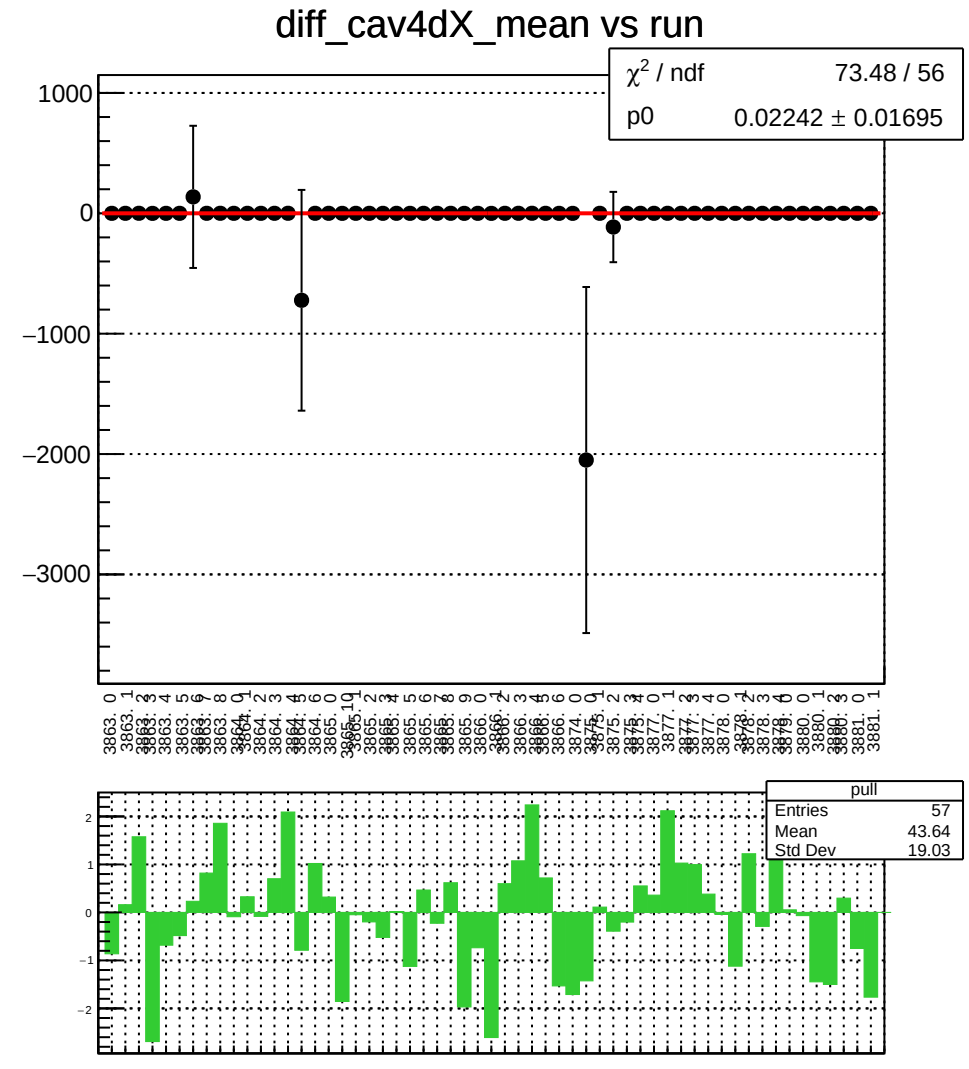

pull1D
Entries 57
Mean 0.01945
Std Dev 0.9903

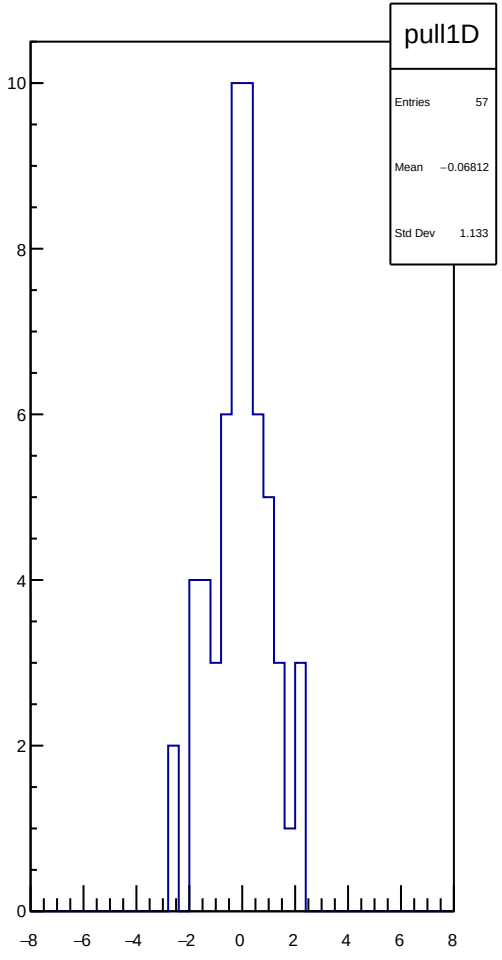

diff_cav4cX_rms vs run
χ² / ndf 1.402e+04 / 56
p0 1664 ± 1.606
2200
2100
2000
1900
1800
1700
1600
1500
1400
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

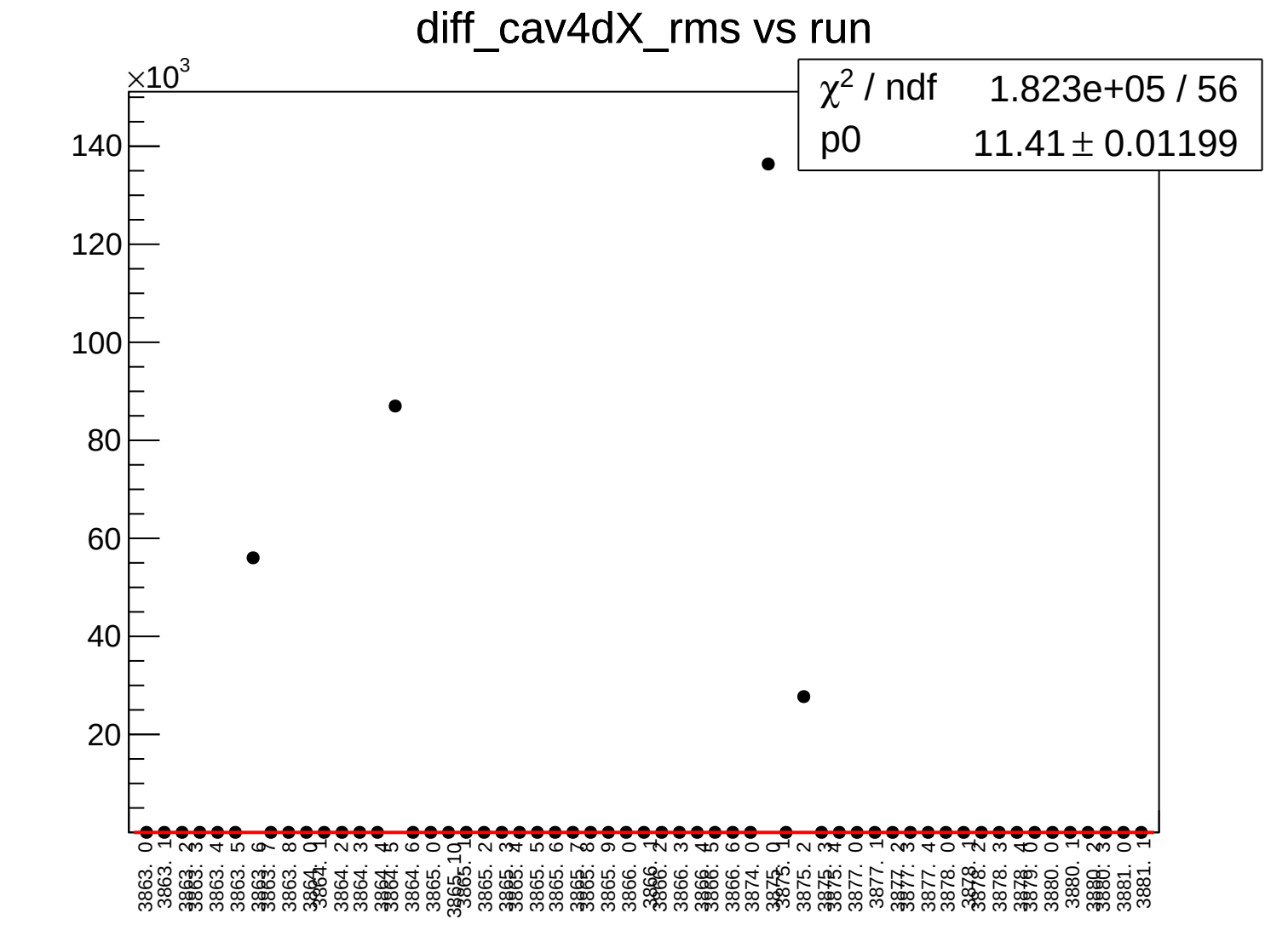

diff_cav4cY_mean vs run
χ² / ndf 50.64 / 56
p0 6.244 ± 2.384
pull
Entries 57
Mean 59.14
Std Dev 85.85

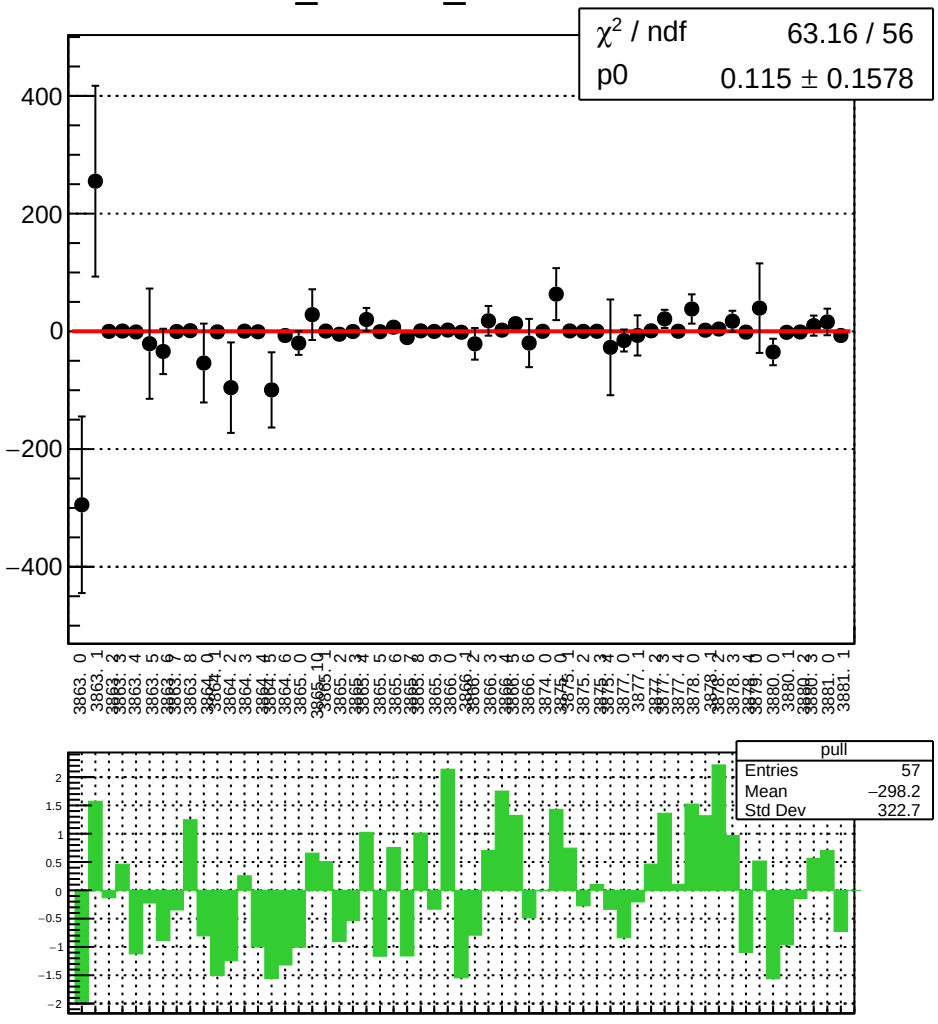

pull1D
Entries 57
Mean 0.009465
Std Dev 0.9425

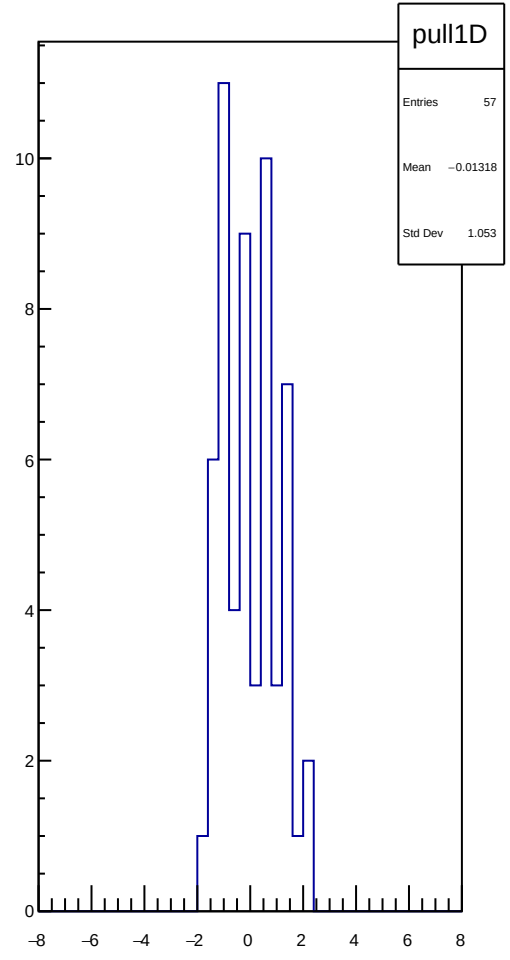

diff_cav4cY_rms vs run
χ² / ndf 2.049e+04 / 56
p0 1741 ± 1.686
2400
2200
2000
1800
1600
1400
1200
1000
3863. 0
3863. 1
3863. 4
3863. 5
3863. 8
3865. 0
3865. 2
3865. 5
3865. 6
3865. 9
3866. 0
3866. 3
3874. 0
3875. 2
3877. 1
3877. 4
3878. 0
3878. 3
3880. 0
3880. 1
3881. 0
3881. 1

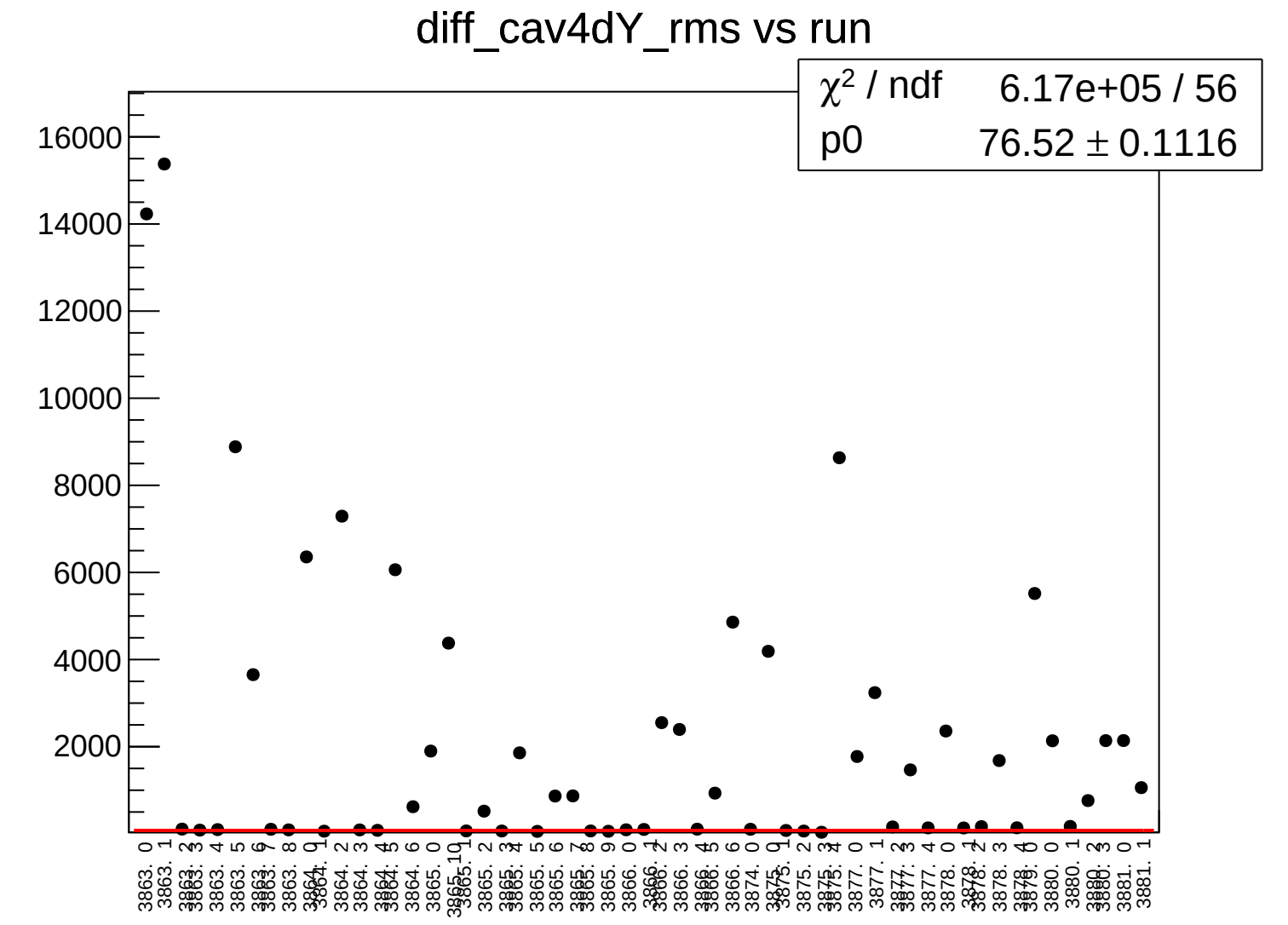

diff_cav4dX_mean vs run
χ² / ndf 73.48 / 56
p0 0.02242 ± 0.01695
1000
0
−1000
−2000
−3000
pull
Entries 57
Mean 43.64
Std Dev 19.03
2
1
0
−1
−2

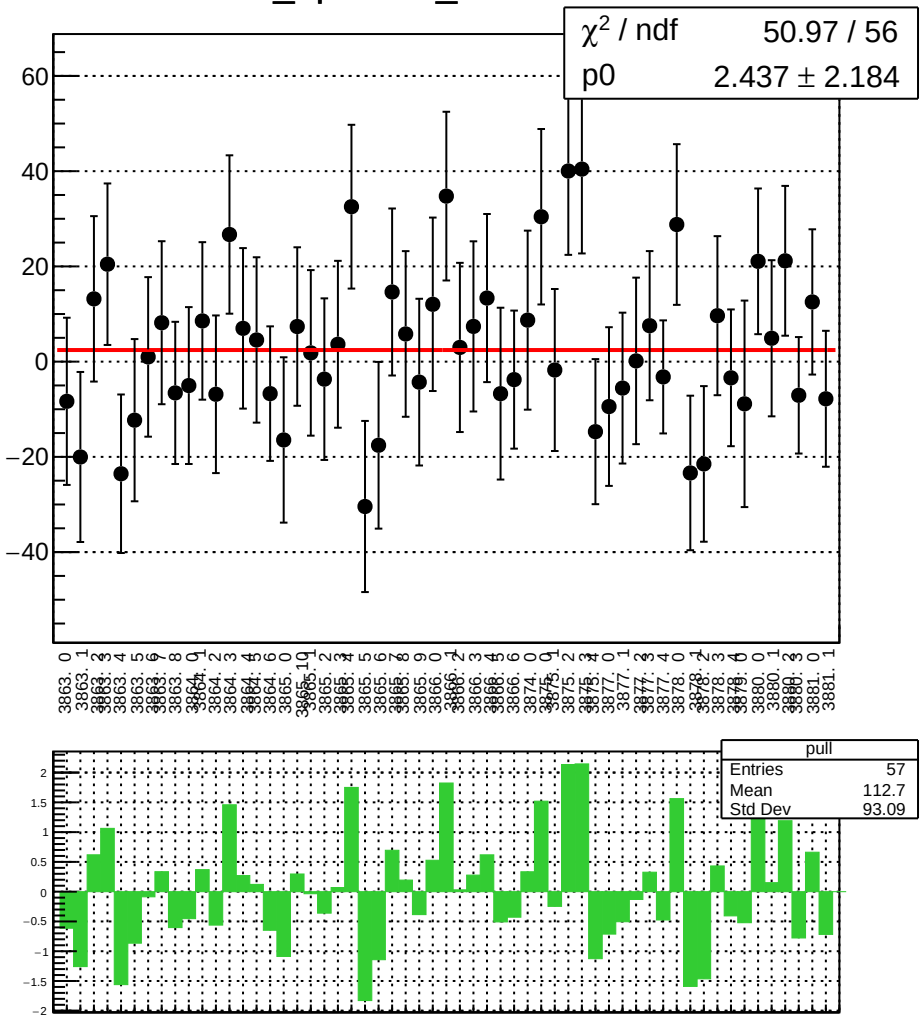

pull1D
Entries 57
Mean −0.06812
Std Dev 1.133
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

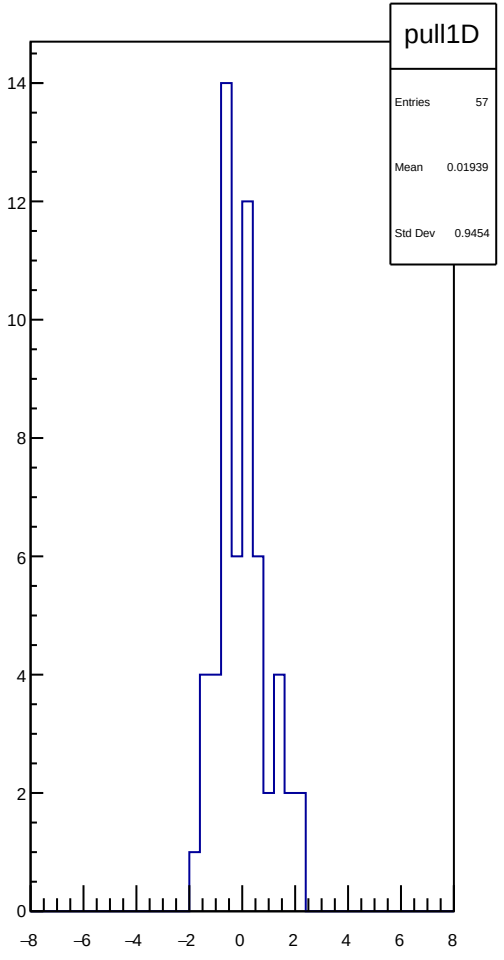

diff_cav4dX_rms vs run
×10^3
χ^2 / ndf 1.823e+05 / 56
p0 11.41 ± 0.01199
140
120
100
80
60
40
20

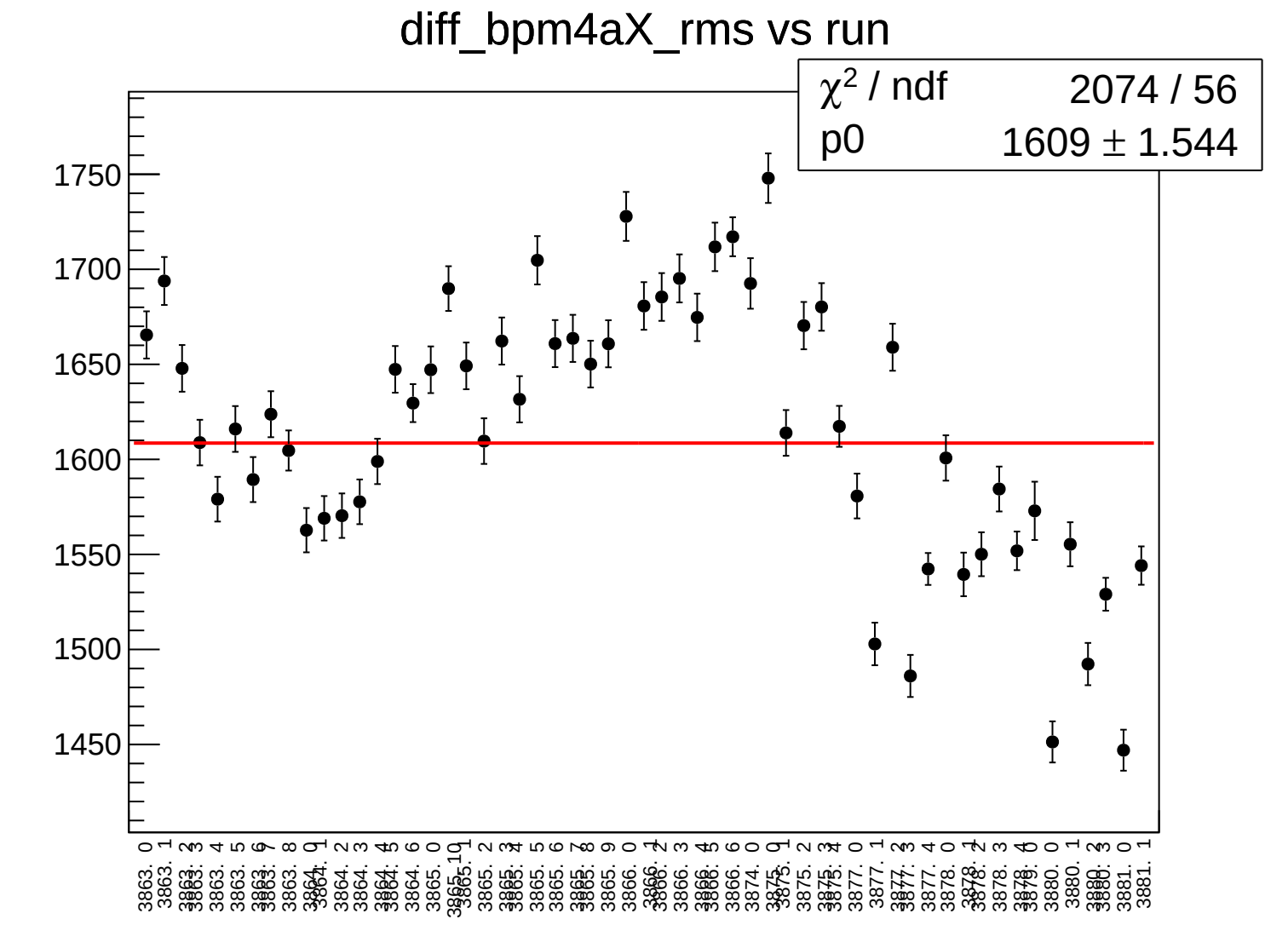

diff_cav4dY_mean vs run
χ^2 / ndf 63.16 / 56
p0 0.115 ± 0.1578
pull
Entries 57
Mean −298.2
Std Dev 322.7

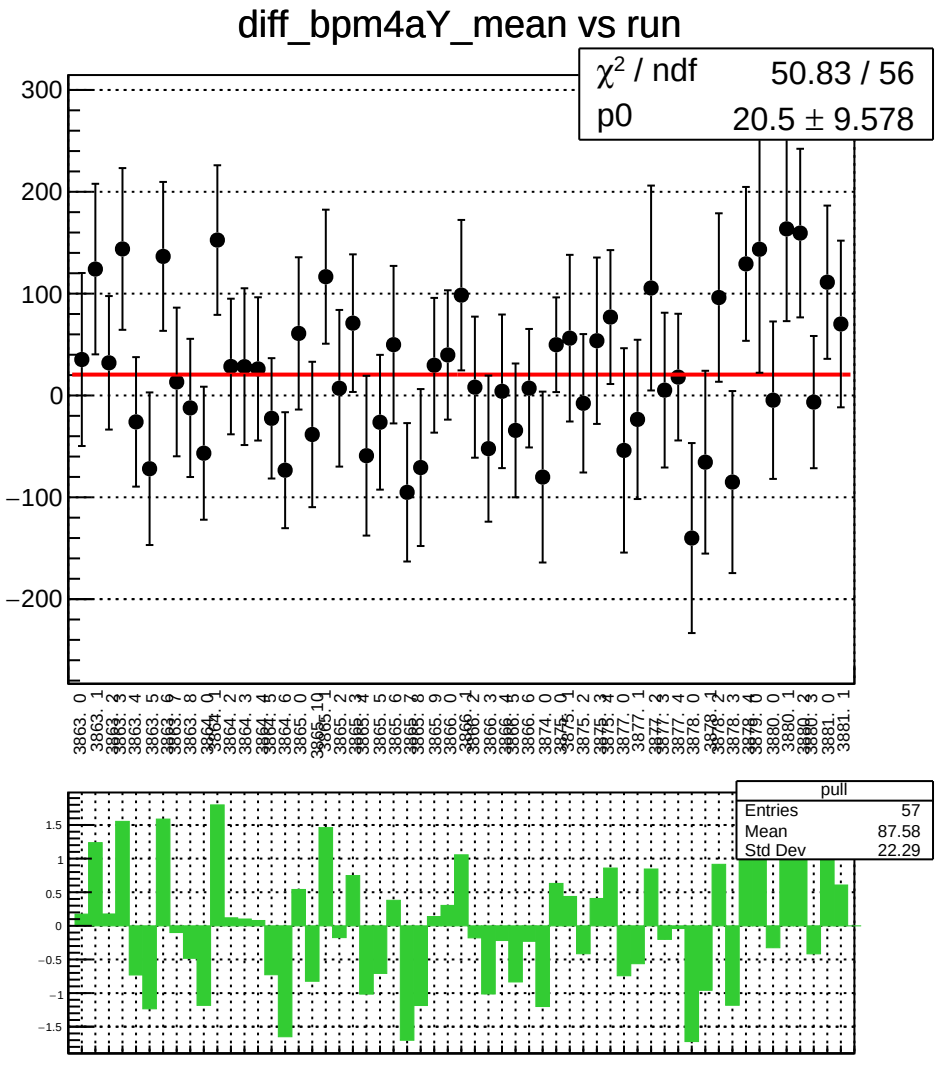

pull1D
Entries 57
Mean −0.01318
Std Dev 1.053

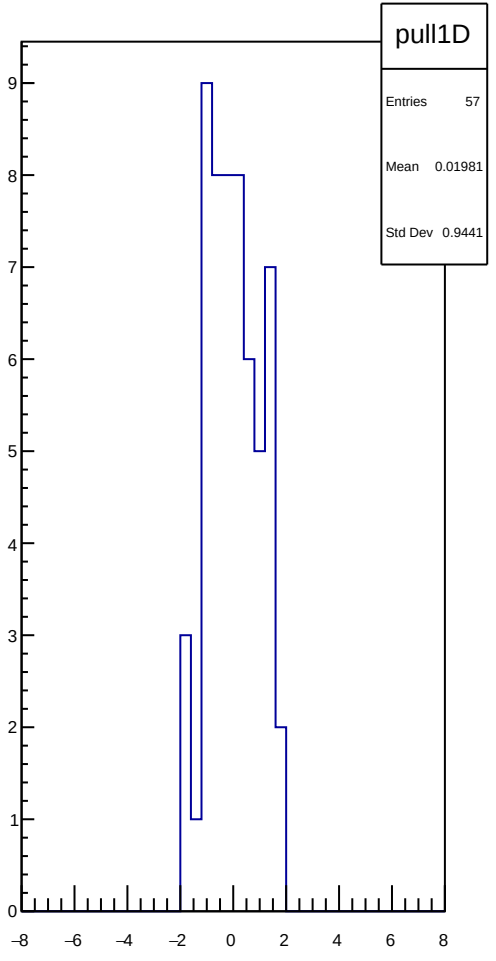

diff_cav4dY_rms vs run
χ² / ndf 6.17e+05 / 56
p0 76.52 ± 0.1116
16000
14000
12000
10000
8000
6000
4000
2000

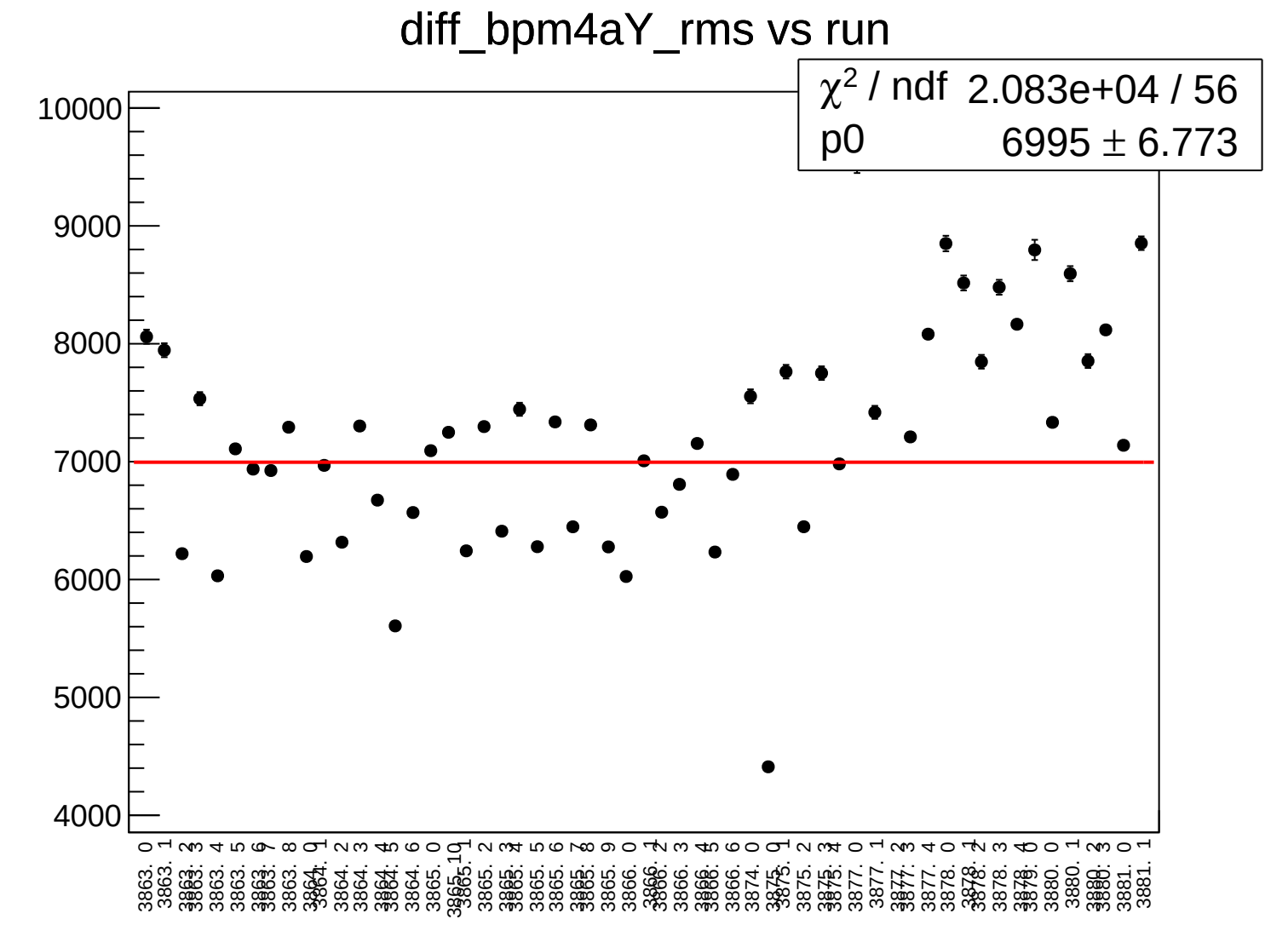

diff_bpm4aX_mean vs run
χ² / ndf 50.97 / 56
p0 2.437 ± 2.184
pull
Entries 57
Mean 112.7
Std Dev 93.09

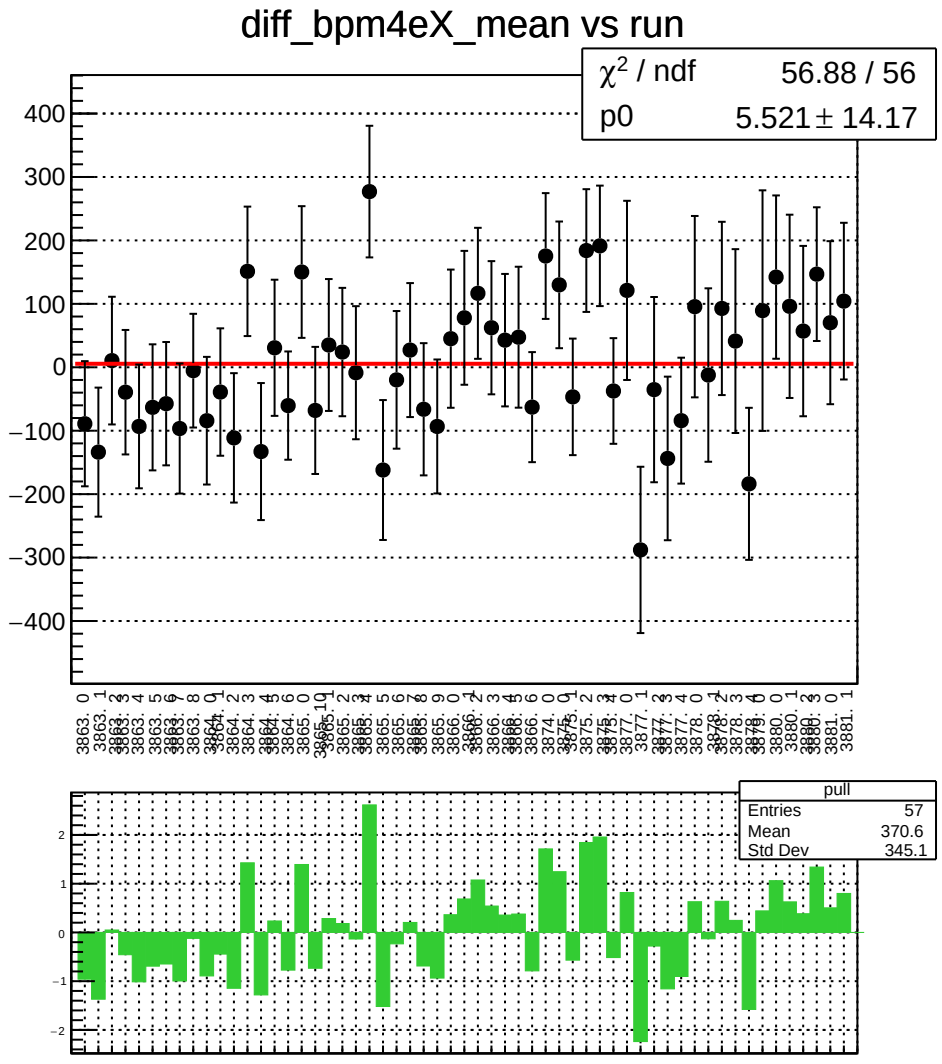

pull1D
Entries 57
Mean 0.01939
Std Dev 0.9454

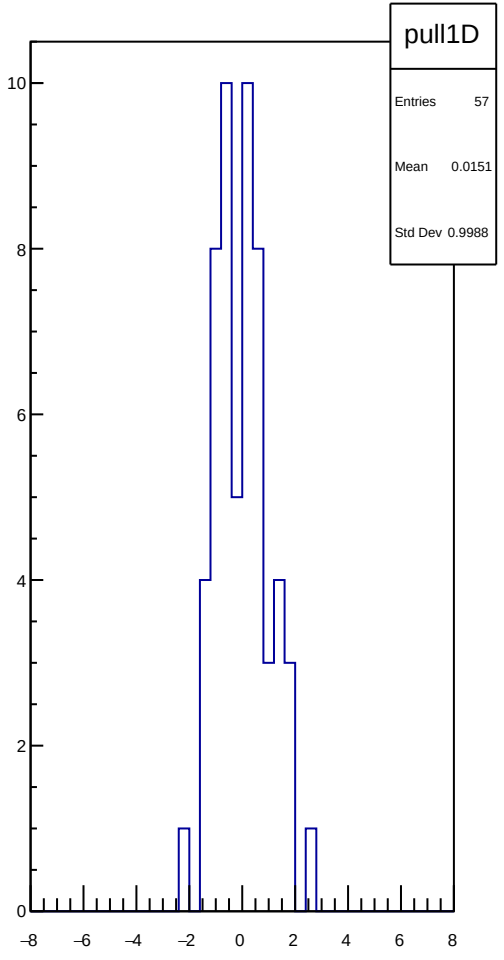

diff_bpm4aX_rms vs run
χ² / ndf 2074 / 56
p0 1609 ± 1.544
1750
1700
1650
1600
1550
1500
1450

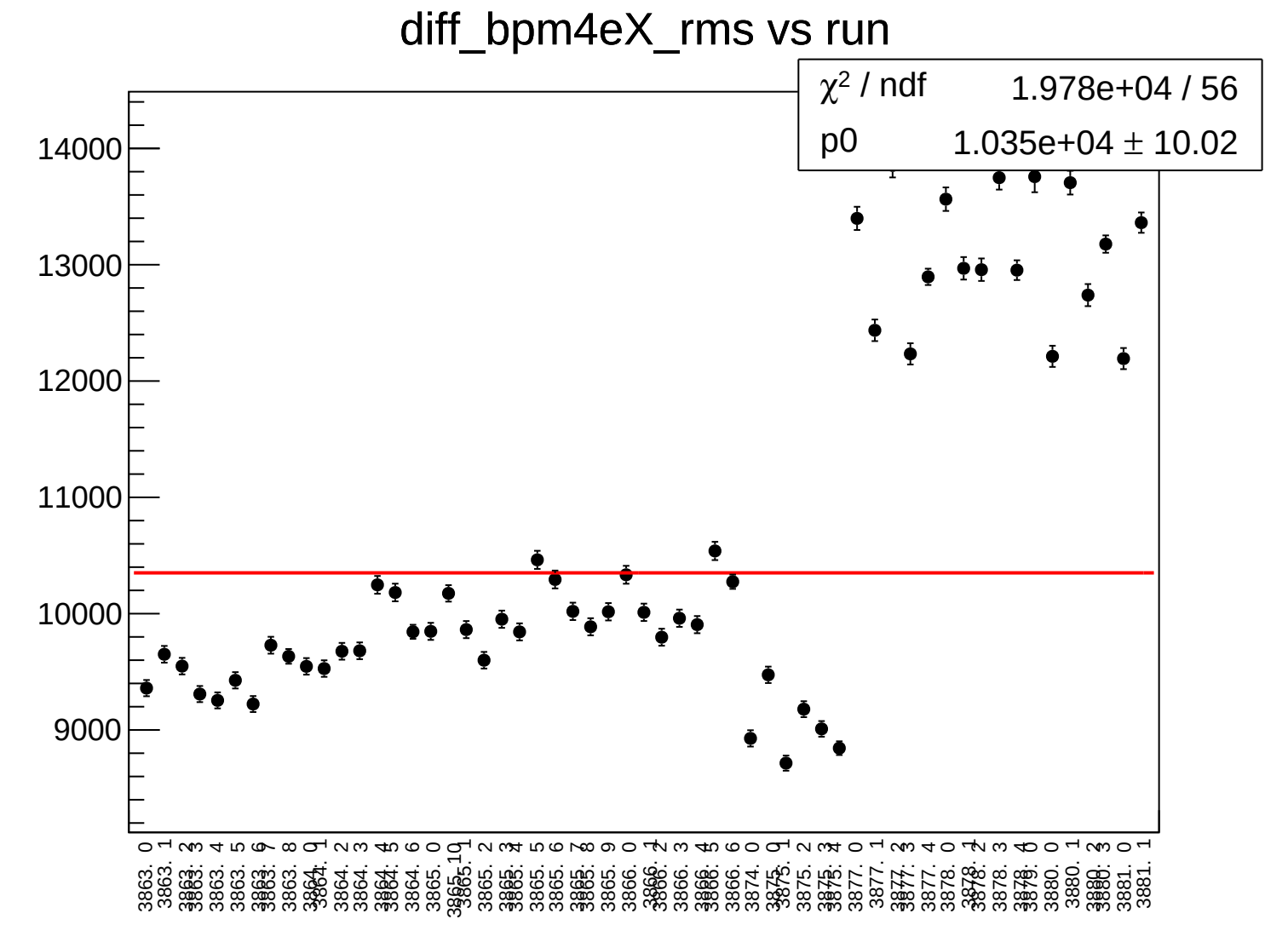

diff_bpm4aY_mean vs run
χ² / ndf 50.83 / 56
p0 20.5 ± 9.578
pull
Entries 57
Mean 87.58
Std Dev 22.29

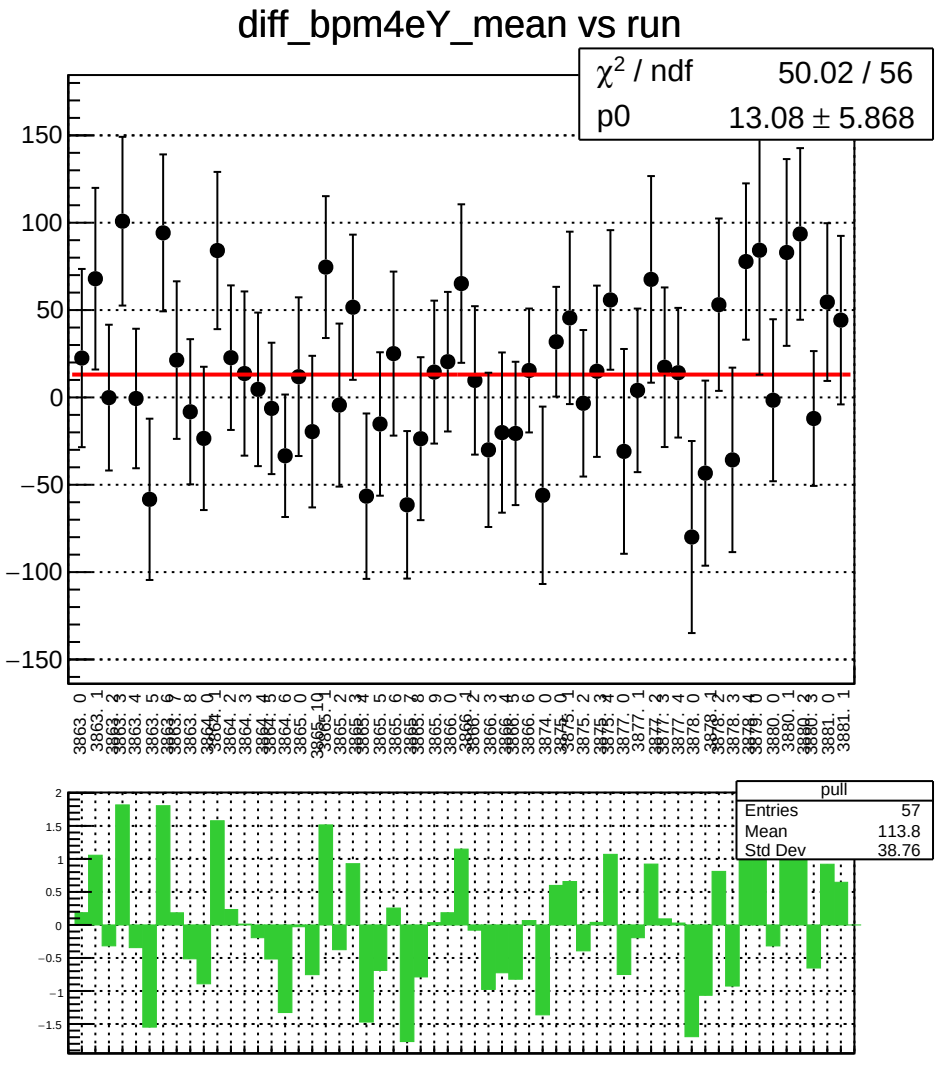

pull1D
Entries 57
Mean 0.01981
Std Dev 0.9441

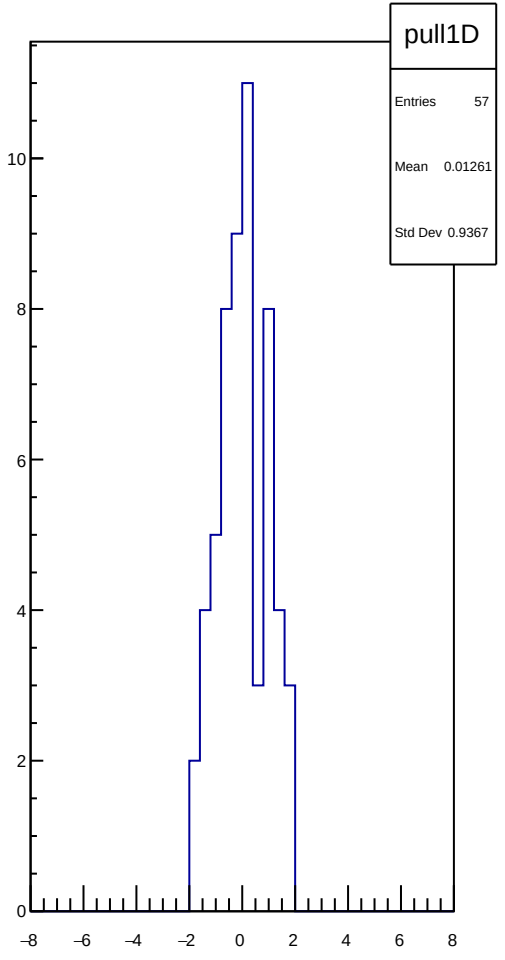

diff_bpm4aY_rms vs run
χ^2 / ndf 2.083e+04 / 56
p0 6995 ± 6.773
10000
9000
8000
7000
6000
5000
4000

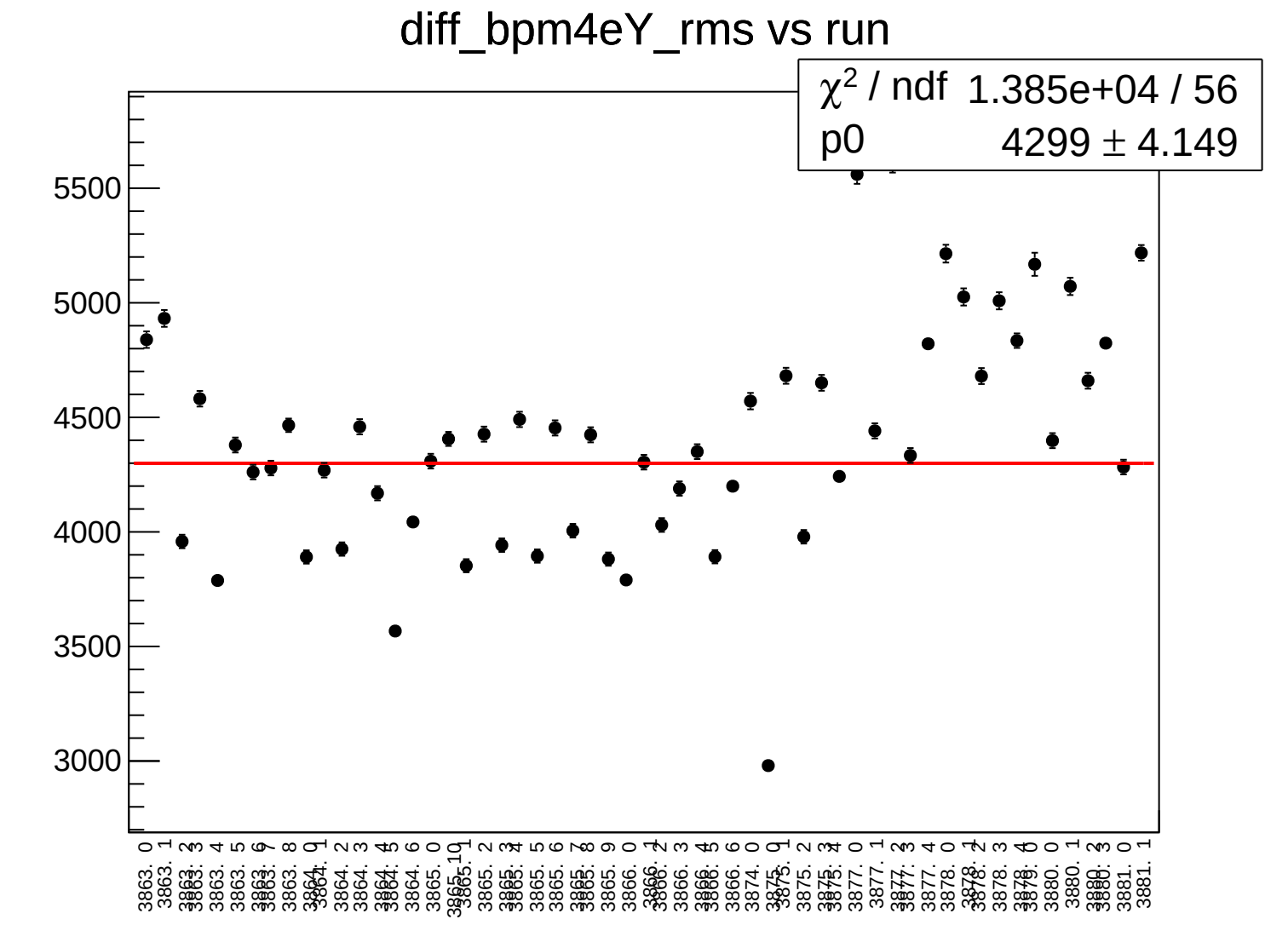

diff_bpm4eX_mean vs run
χ² / ndf 56.88 / 56
p0 5.521 ± 14.17
pull
Entries 57
Mean 370.6
Std Dev 345.1

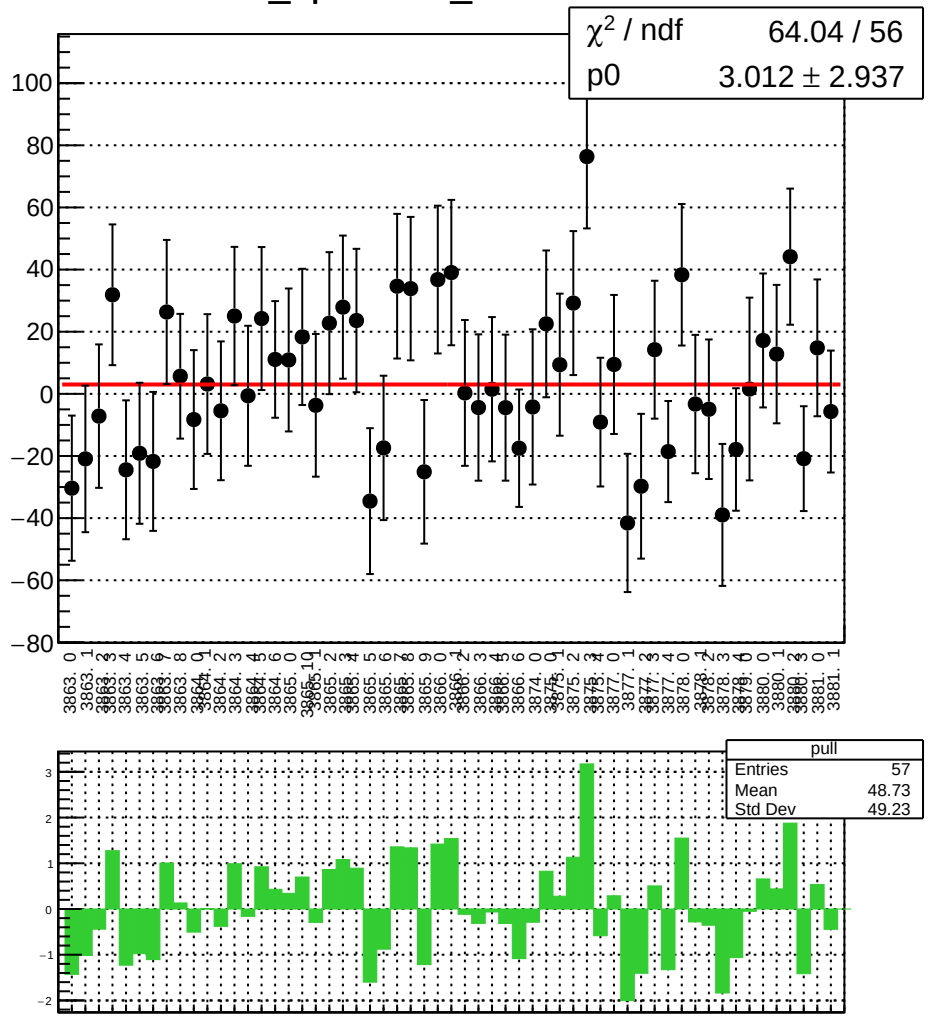

pull1D
Entries 57
Mean 0.0151
Std Dev 0.9988

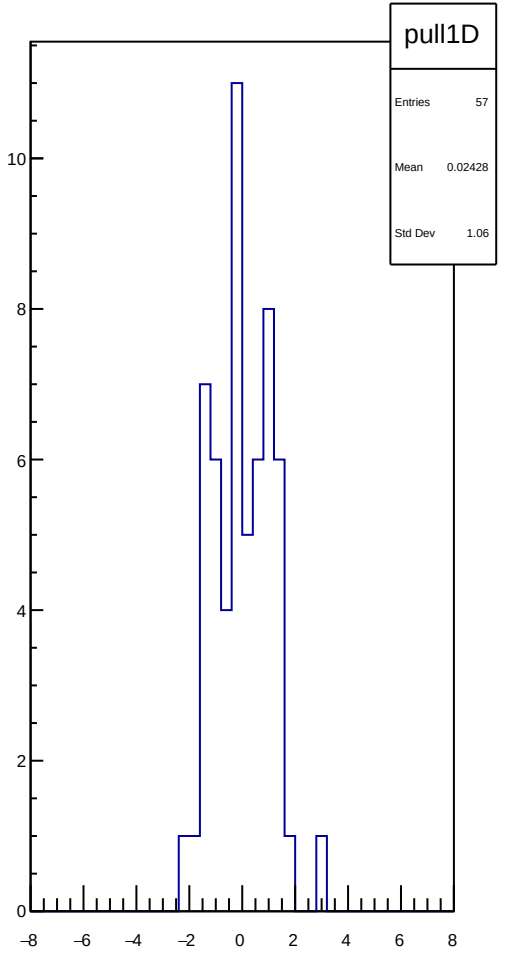

diff_bpm4eX_rms vs run
χ² / ndf 1.978e+04 / 56
p0 1.035e+04 ± 10.02
14000
13000
12000
11000
10000
9000
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

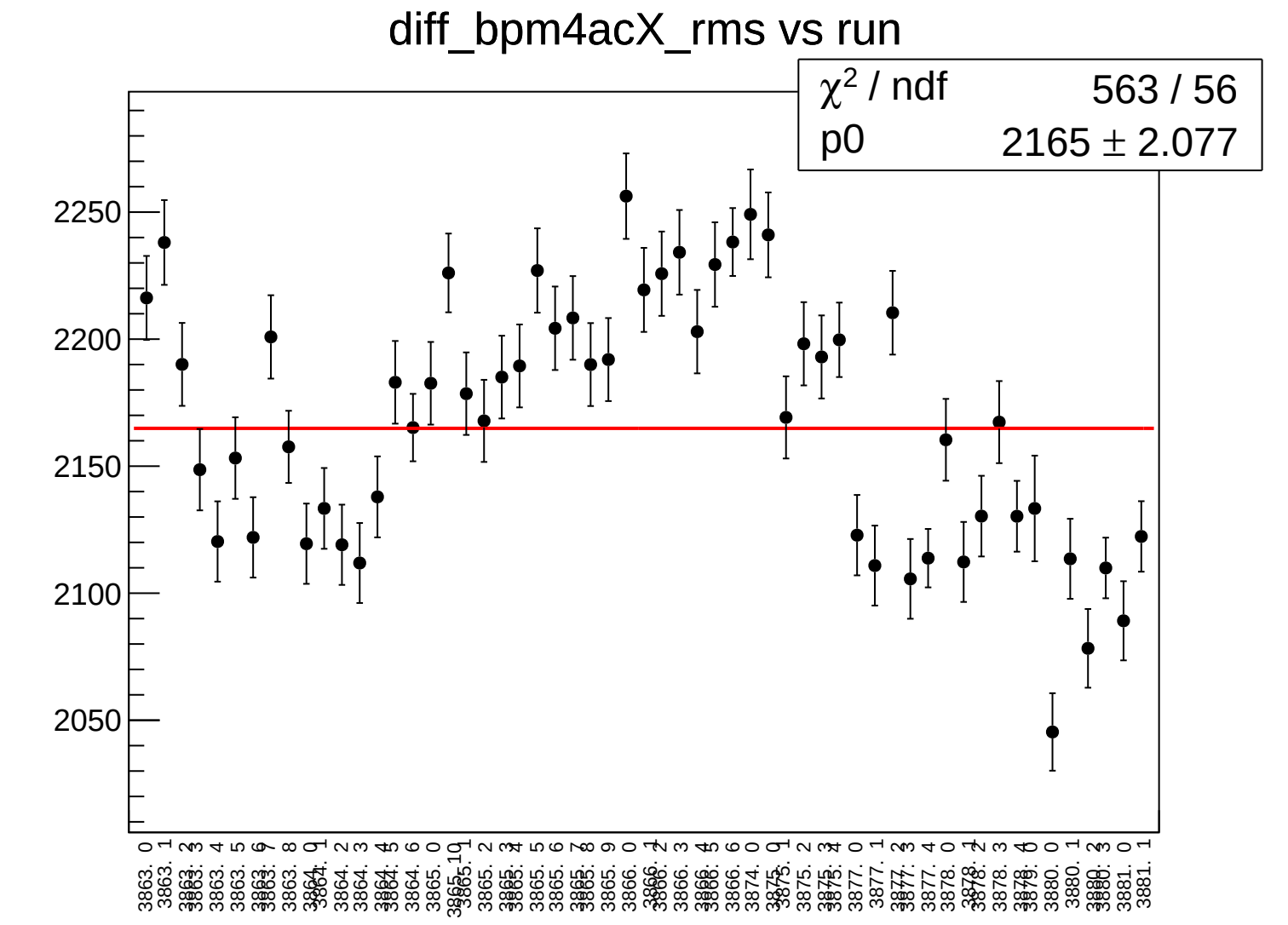

diff_bpm4eY_mean vs run
χ^2 / ndf 50.02 / 56
p0 13.08 ± 5.868
pull
Entries 57
Mean 113.8
Std Dev 38.76

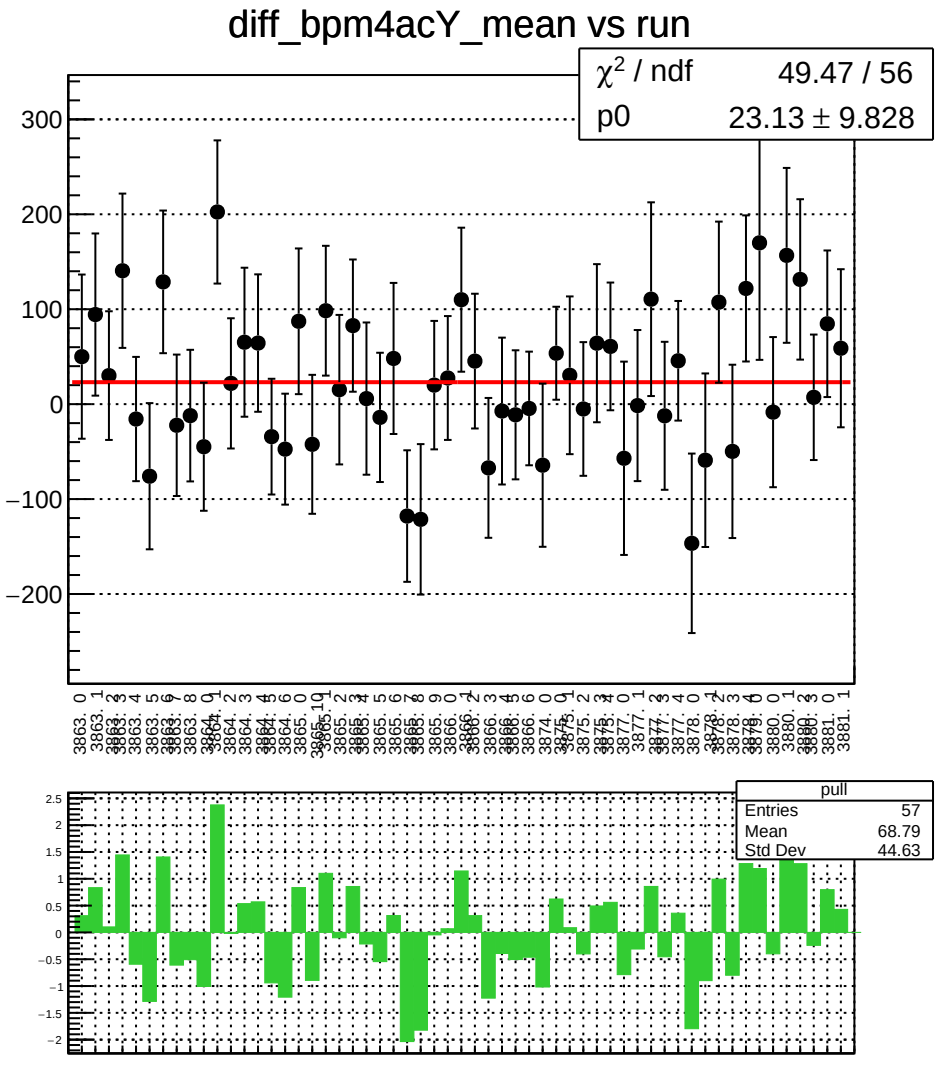

pull1D
Entries 57
Mean 0.01261
Std Dev 0.9367

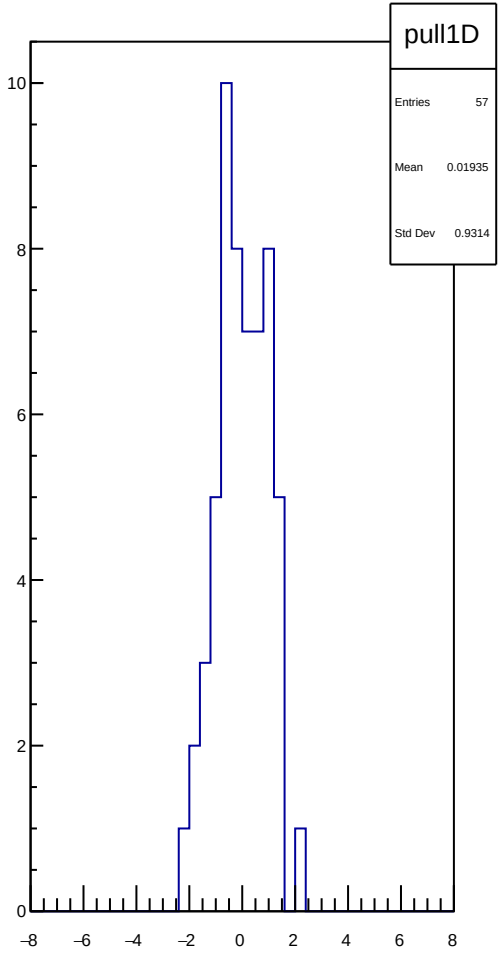

diff_bpm4eY_rms vs run
χ² / ndf 1.385e+04 / 56
p0 4299 ± 4.149
5500
5000
4500
4000
3500
3000
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

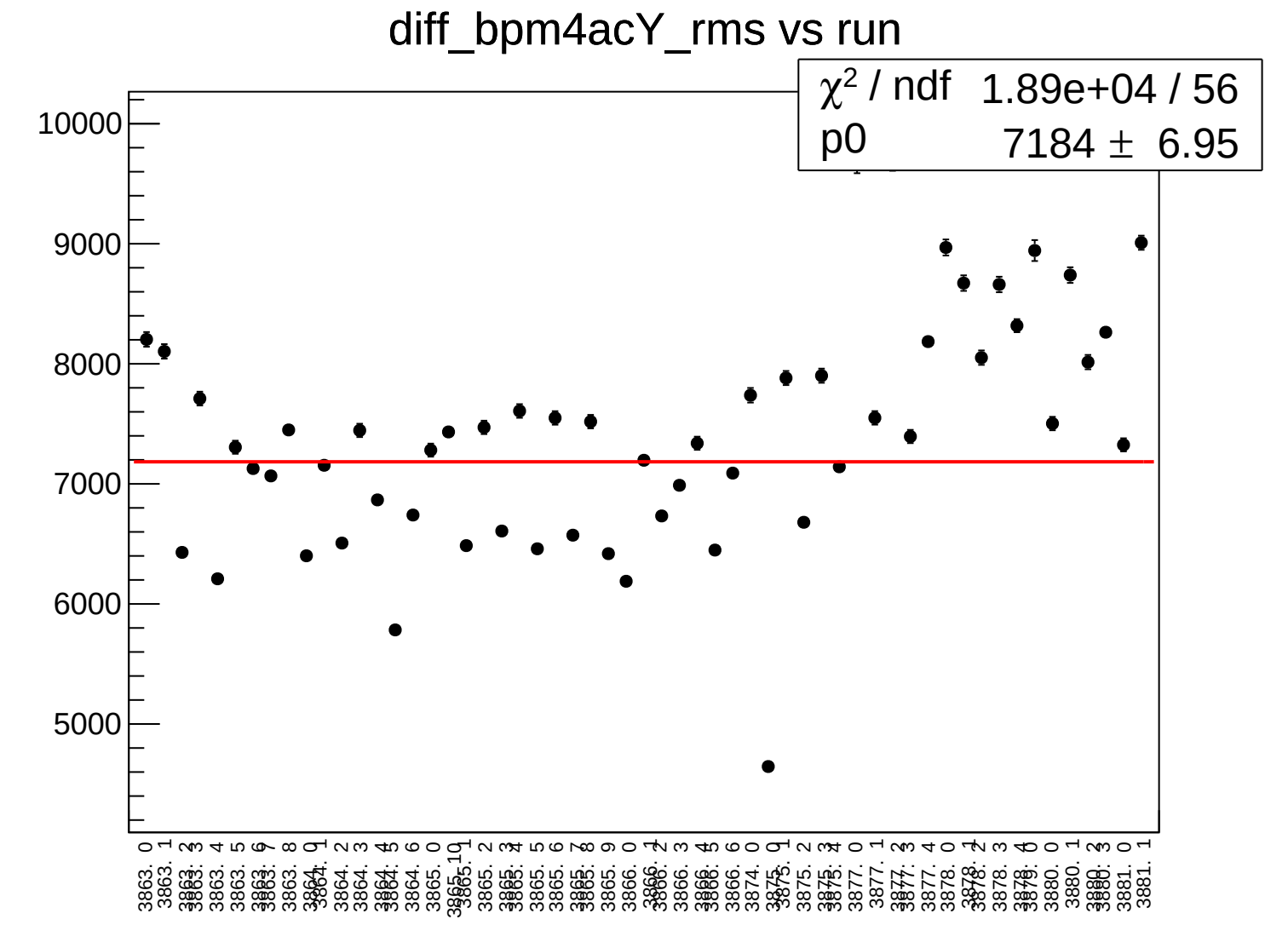

diff_bpm4acX_mean vs run
χ^2 / ndf 64.04 / 56
p0 3.012 ± 2.937
pull
Entries 57
Mean 48.73
Std Dev 49.23

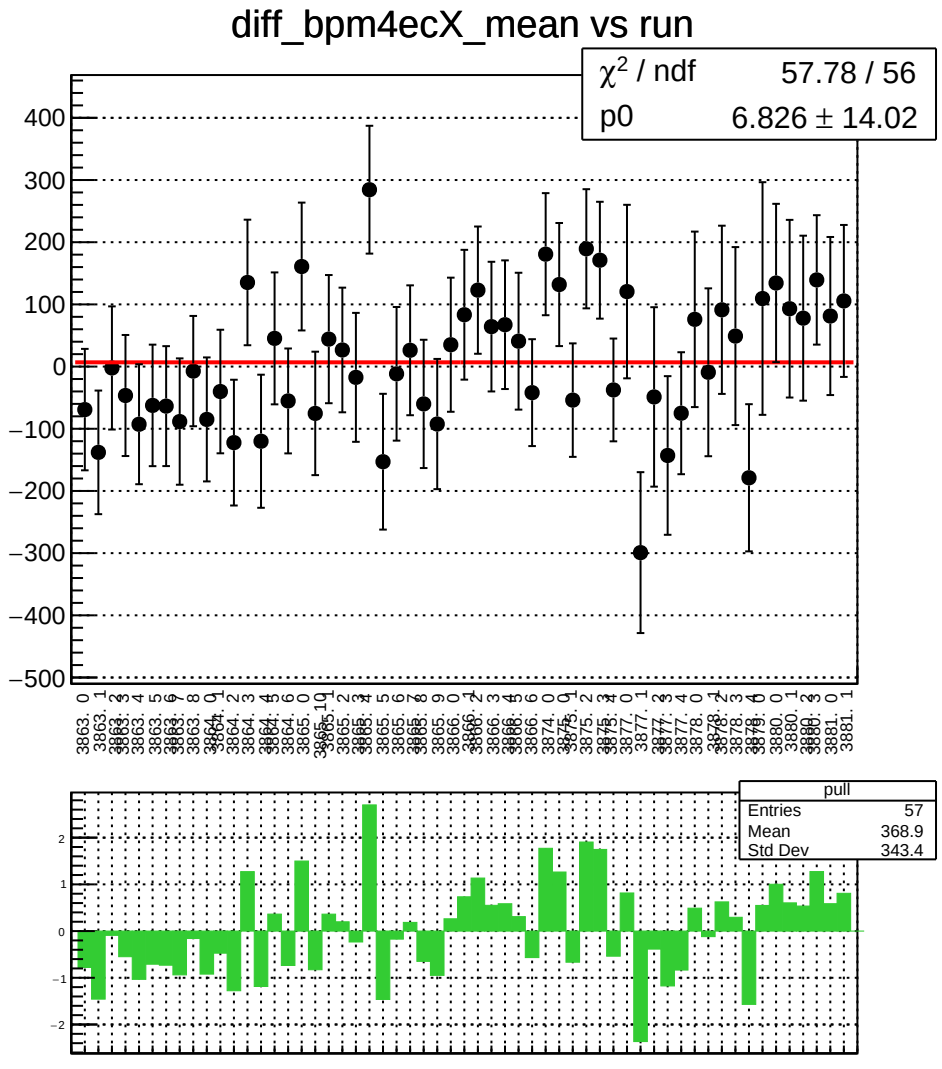

pull1D
Entries 57
Mean 0.02428
Std Dev 1.06

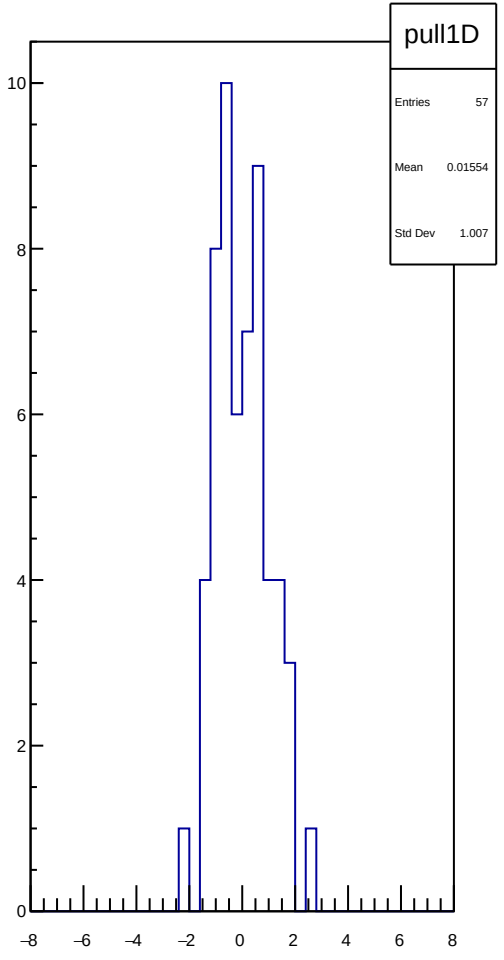

diff_bpm4acX_rms vs run
χ² / ndf 563 / 56
p0 2165 ± 2.077
2250
2200
2150
2100
2050

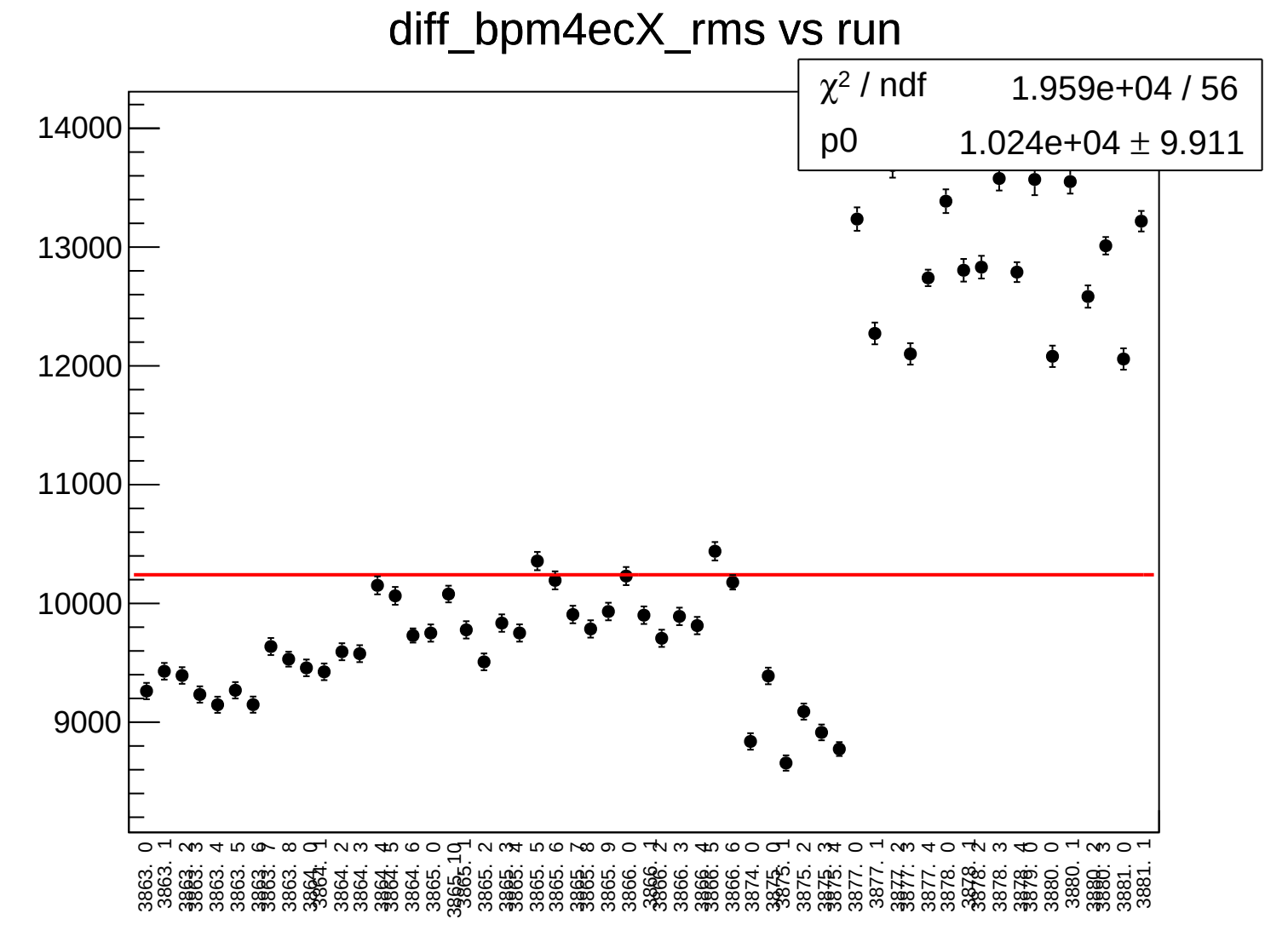

diff_bpm4acY_mean vs run
χ² / ndf 49.47 / 56
p0 23.13 ± 9.828
pull
Entries 57
Mean 68.79
Std Dev 44.63

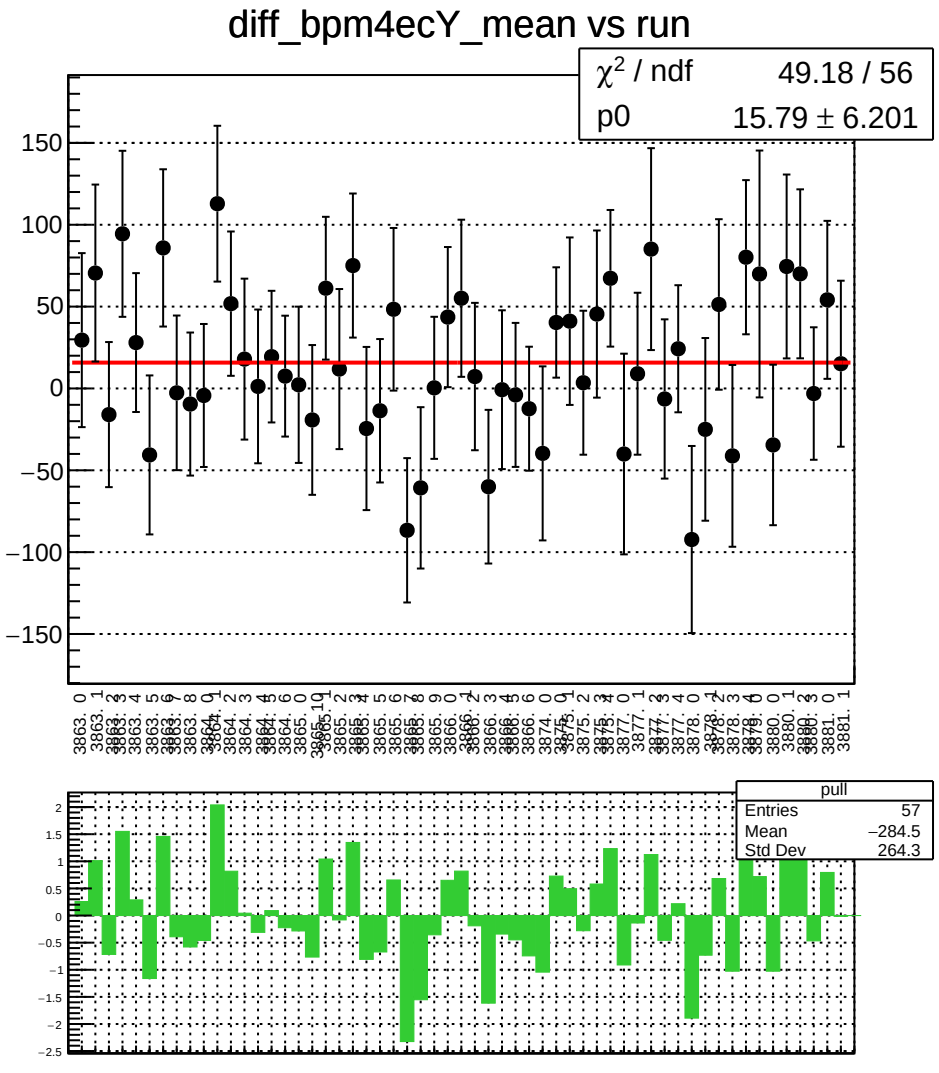

pull1D
Entries 57
Mean 0.01935
Std Dev 0.9314

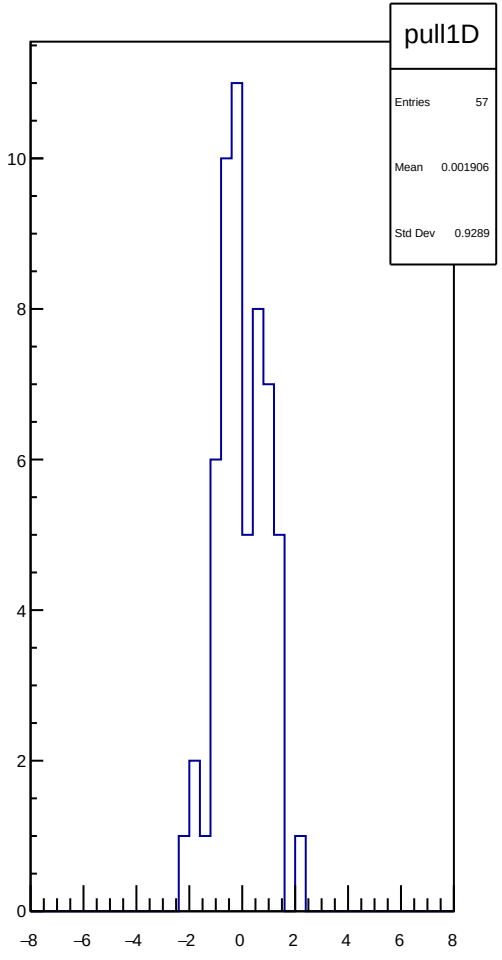

diff_bpm4acY_rms vs run
χ² / ndf 1.89e+04 / 56
p0 7184 ± 6.95
10000
9000
8000
7000
6000
5000
3863. 0
3863. 1
3863. 4
3863. 5
3863. 8
3864. 2
3864. 3
3865. 0
3865. 2
3865. 5
3865. 6
3865. 9
3866. 0
3866. 3
3866. 6
3874. 0
3875. 2
3877. 1
3877. 4
3878. 0
3878. 3
3880. 0
3880. 1
3881. 0
3881. 1

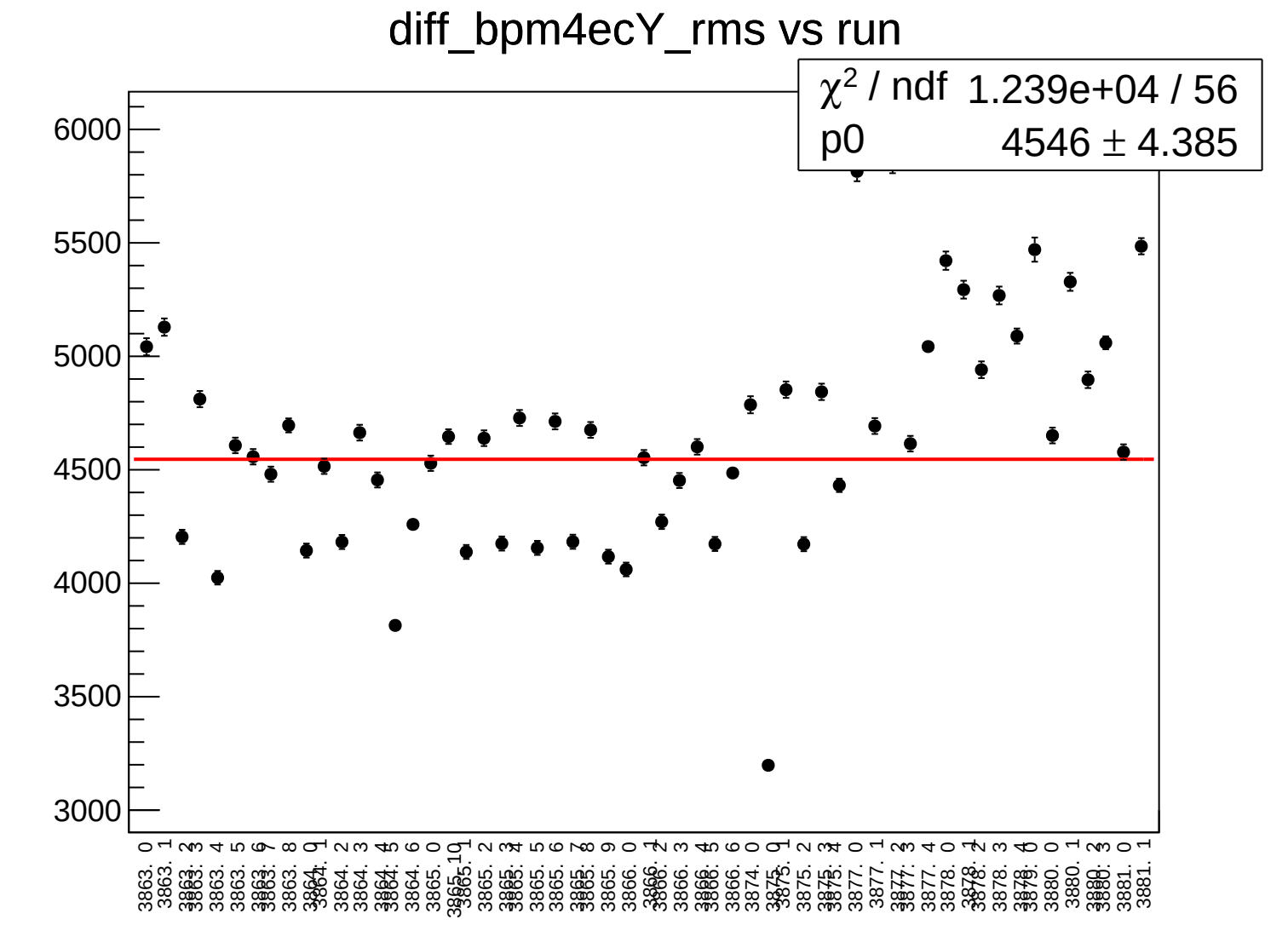

diff_bpm4ecX_mean vs run
χ² / ndf 57.78 / 56
p0 6.826 ± 14.02
pull
Entries 57
Mean 368.9
Std Dev 343.4

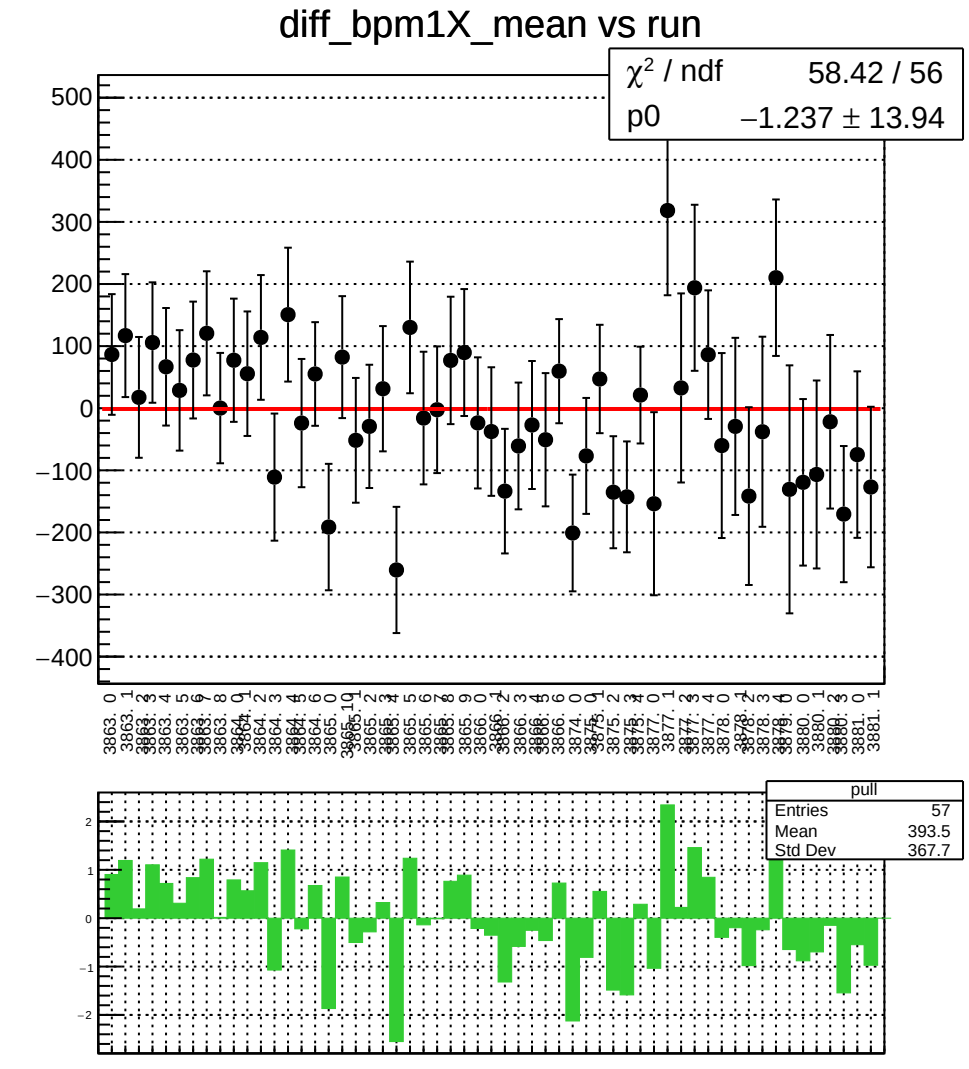

pull1D
Entries 57
Mean 0.01554
Std Dev 1.007

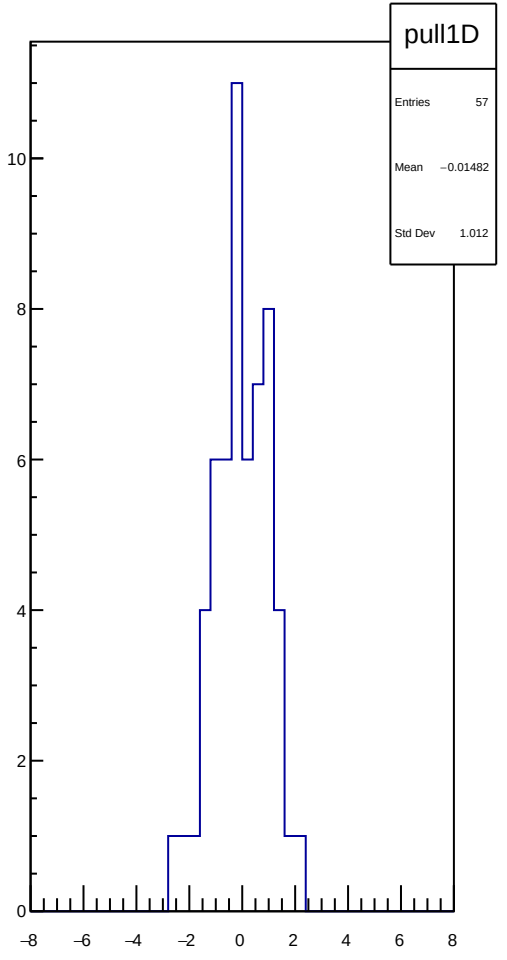

diff_bpm4ecX_rms vs run
χ² / ndf 1.959e+04 / 56
p0 1.024e+04 ± 9.911
14000
13000
12000
11000
10000
9000
3863. 0
3863. 1
3863. 4
3863. 5
3863. 8
3864. 2
3864. 3
3865. 0
3865. 2
3865. 5
3865. 6
3865. 9
3866. 0
3866. 3
3866. 6
3874. 0
3875. 2
3877. 0
3877. 1
3877. 4
3878. 0
3878. 3
3880. 0
3880. 1
3881. 0
3881. 1

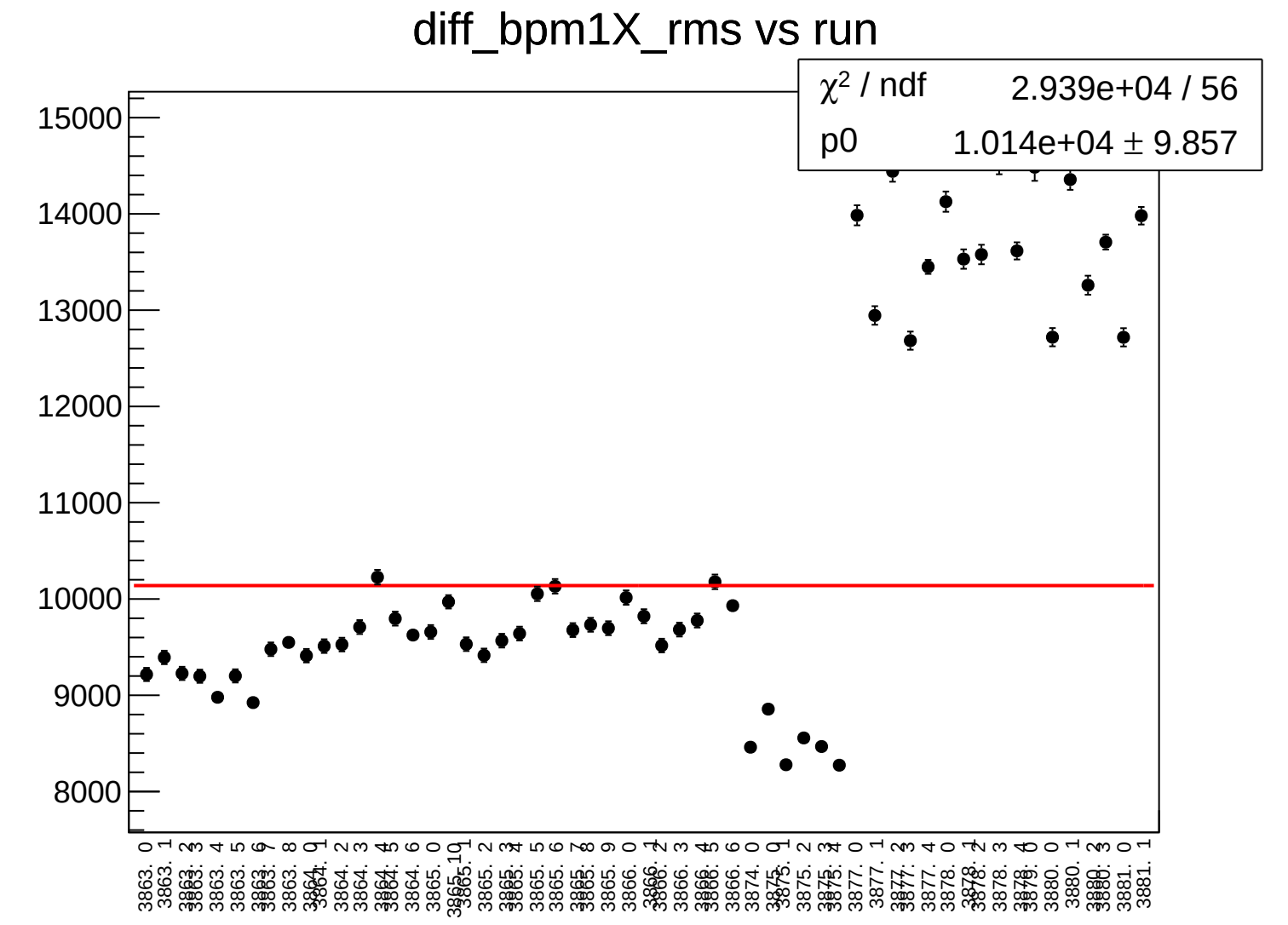

diff_bpm4ecY_mean vs run
χ^2 / ndf 49.18 / 56
p0 15.79 ± 6.201
pull
Entries 57
Mean −284.5
Std Dev 264.3

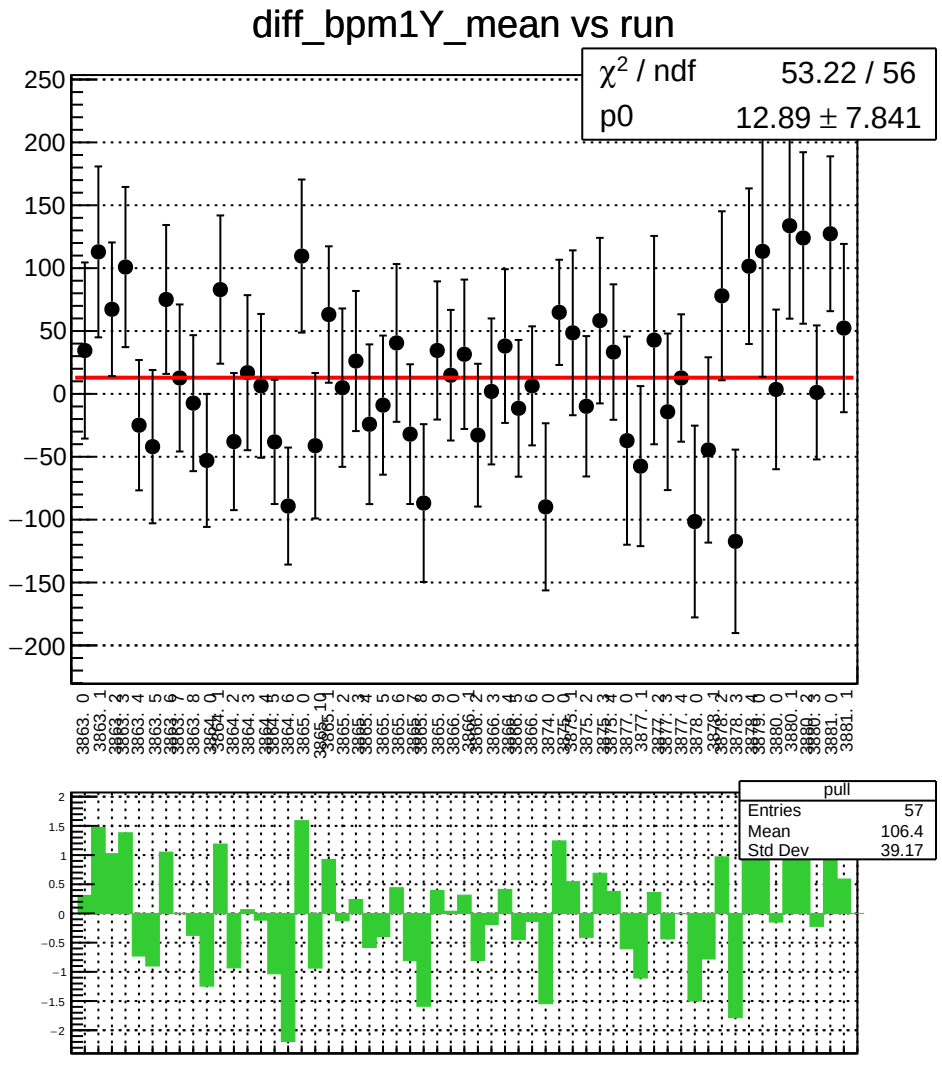

pull1D
Entries 57
Mean 0.001906
Std Dev 0.9289

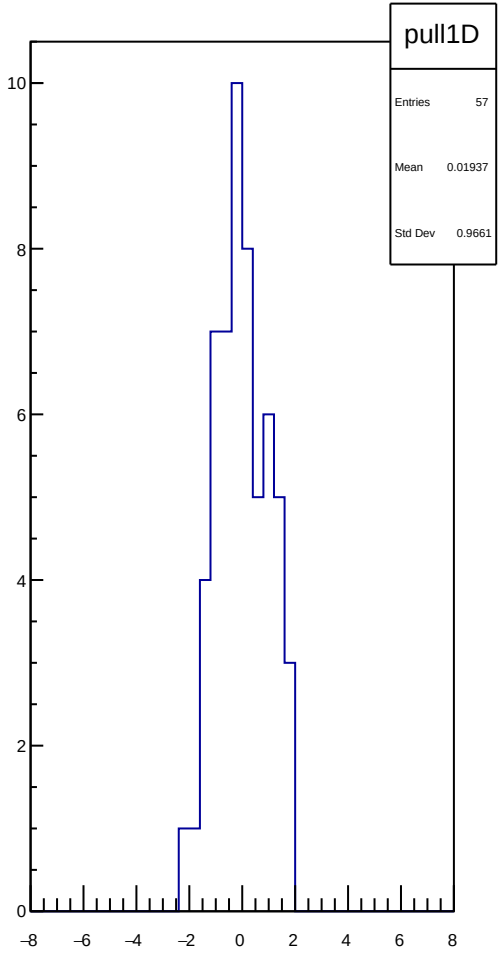

diff_bpm4ecY_rms vs run
χ² / ndf 1.239e+04 / 56
p0 4546 ± 4.385
6000
5500
5000
4500
4000
3500
3000

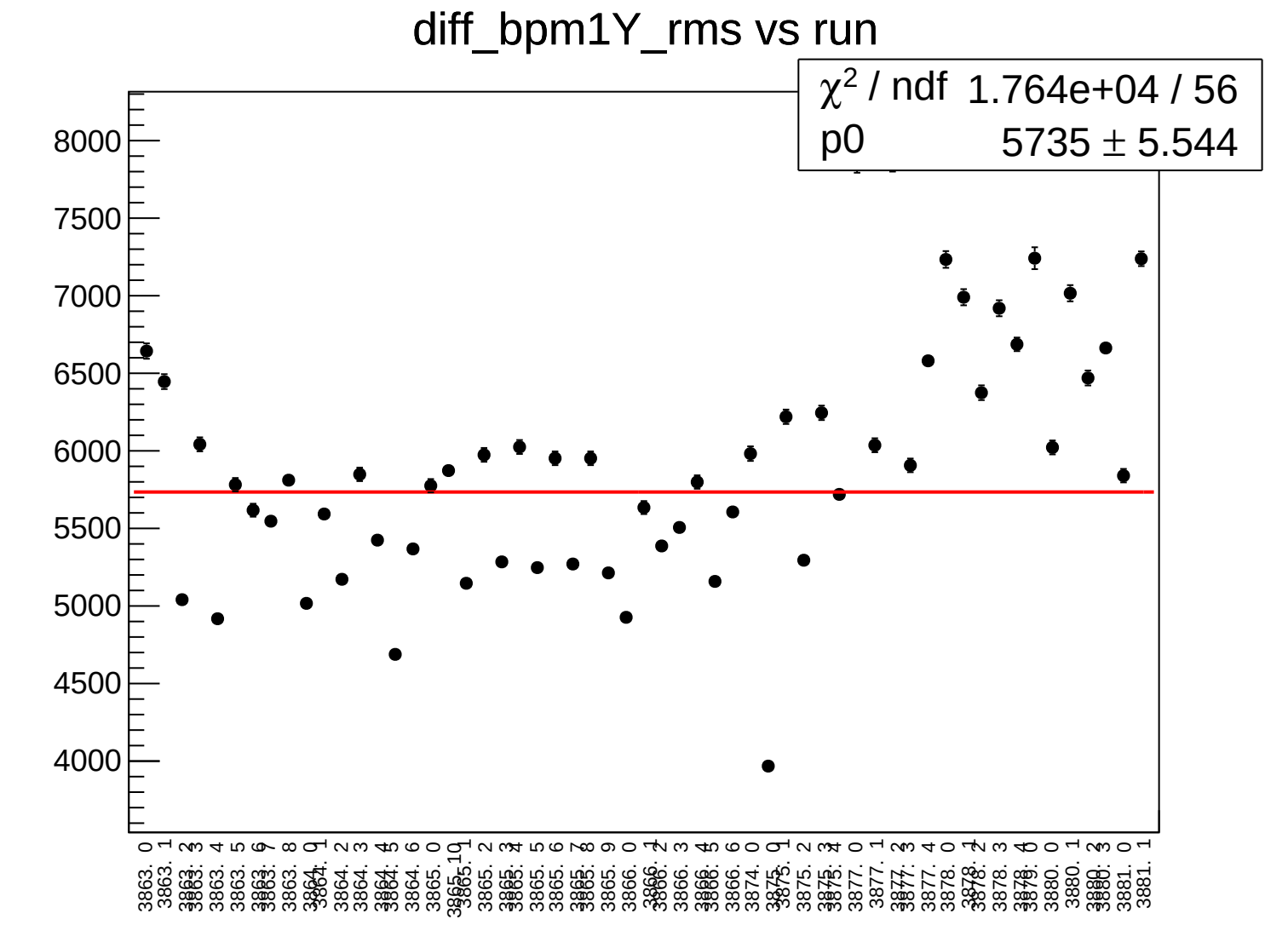

diff_bpm1X_mean vs run
χ² / ndf 58.42 / 56
p0 −1.237 ± 13.94
pull
Entries 57
Mean 393.5
Std Dev 367.7

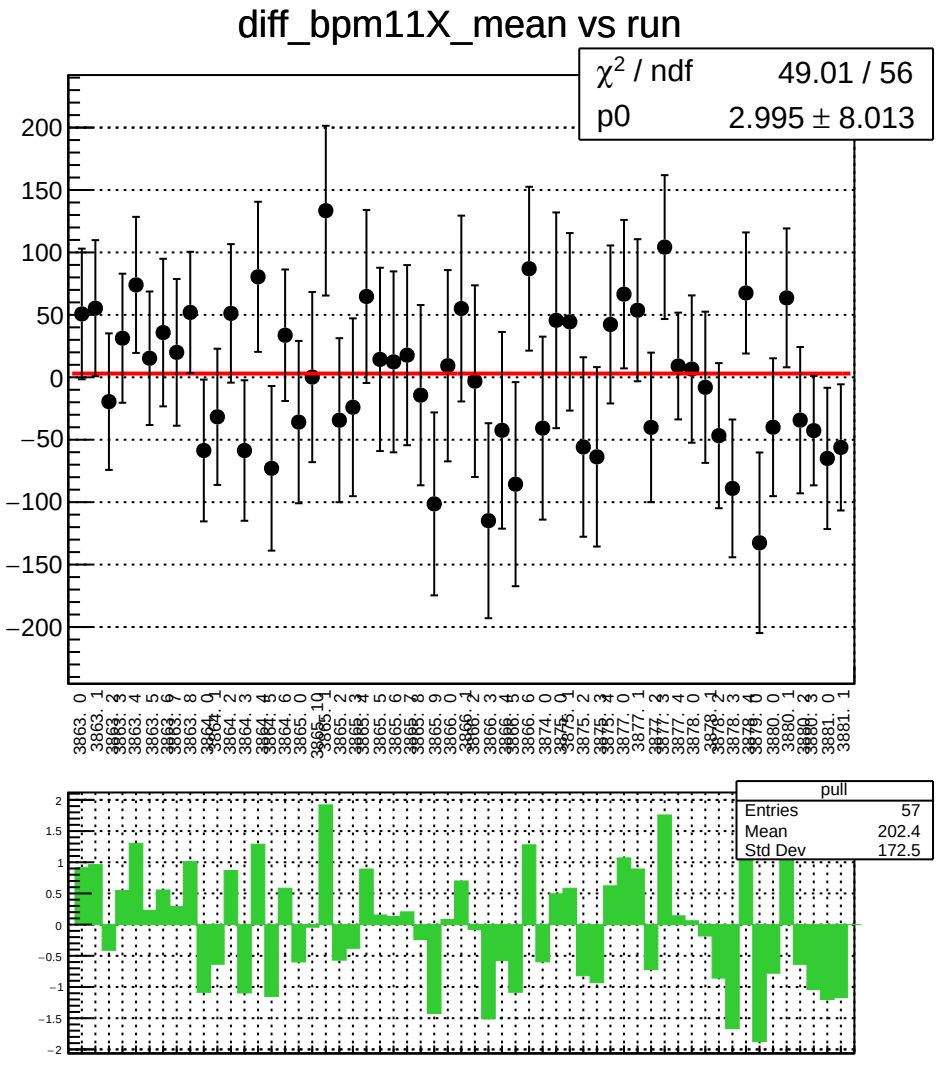

pull1D
Entries 57
Mean −0.01482
Std Dev 1.012

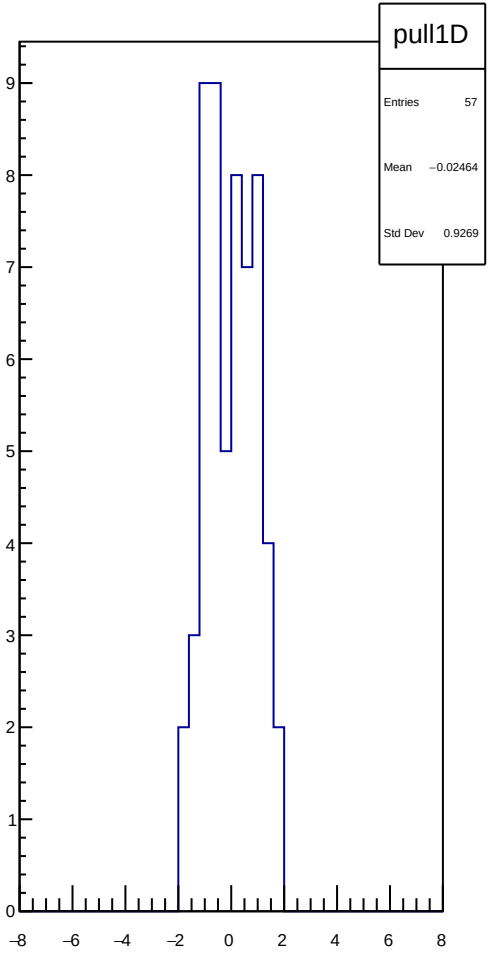

diff_bpm1X_rms vs run
χ² / ndf 2.939e+04 / 56
p0 1.014e+04 ± 9.857
15000
14000
13000
12000
11000
10000
9000
8000

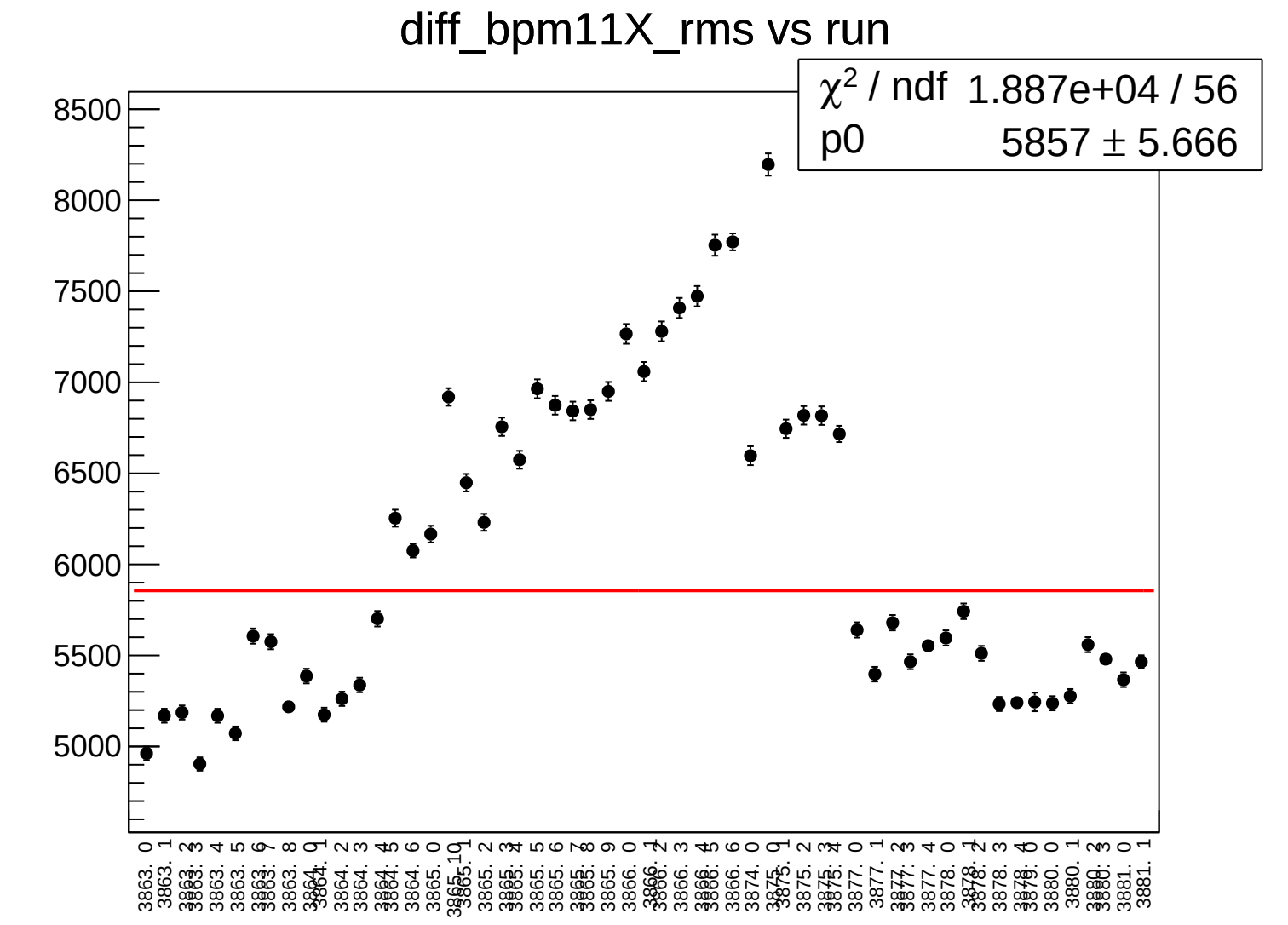

diff_bpm1Y_mean vs run
χ² / ndf 53.22 / 56
p0 12.89 ± 7.841
pull
Entries 57
Mean 106.4
Std Dev 39.17

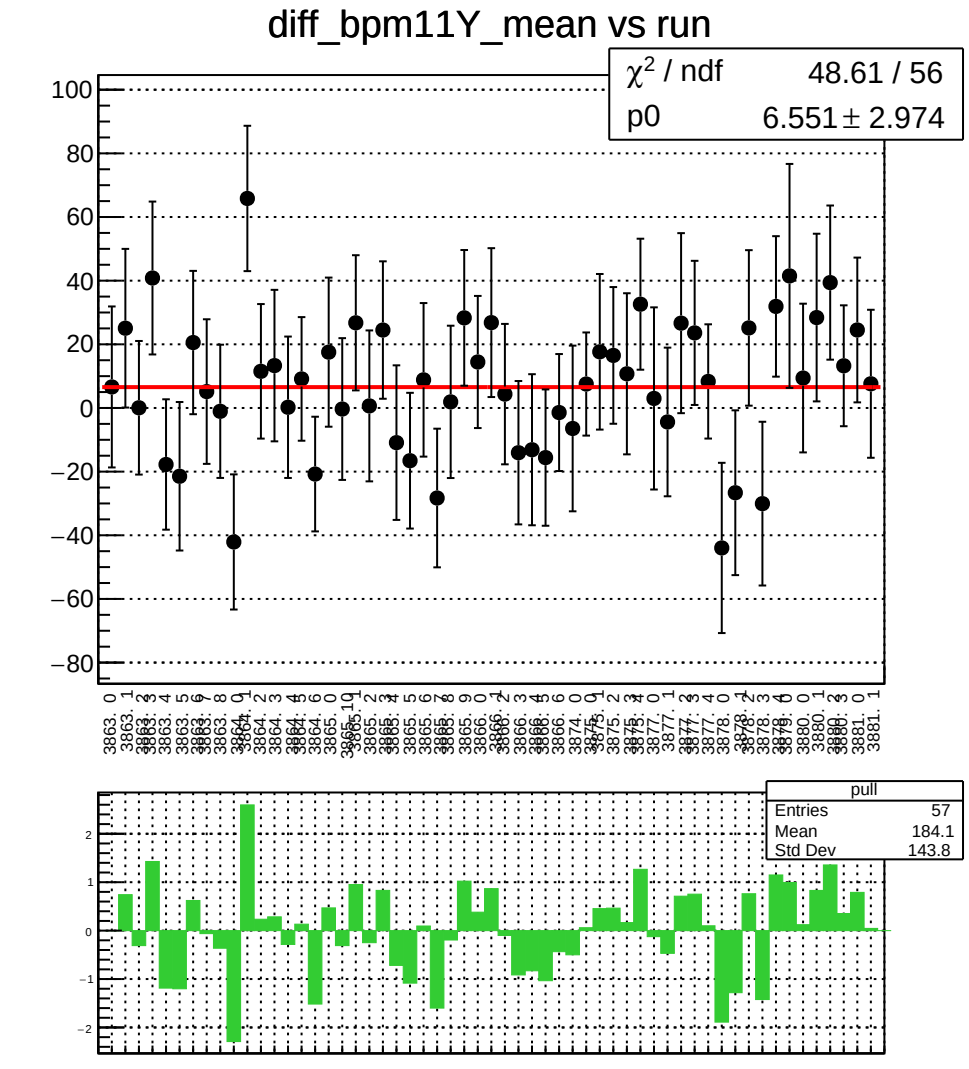

pull1D
Entries 57
Mean 0.01937
Std Dev 0.9661

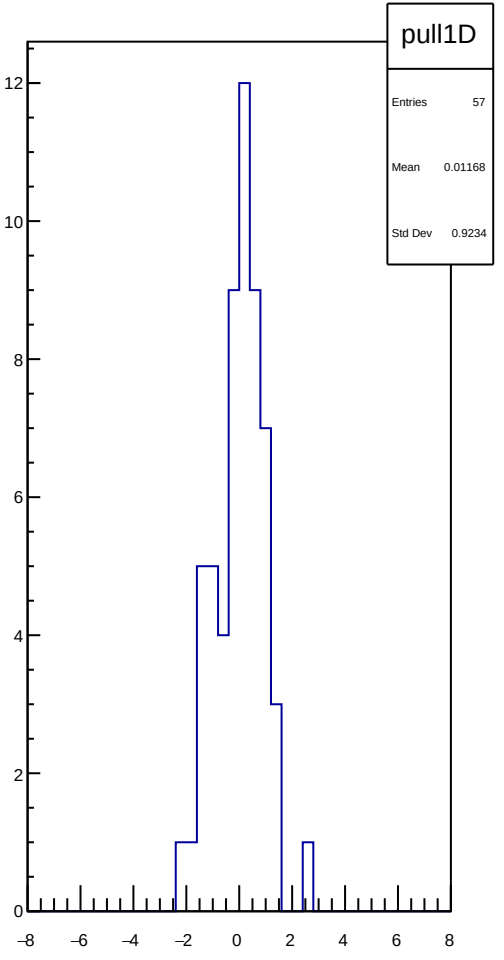

diff_bpm1Y_rms vs run
χ² / ndf 1.764e+04 / 56
p0 5735 ± 5.544
8000
7500
7000
6500
6000
5500
5000
4500
4000

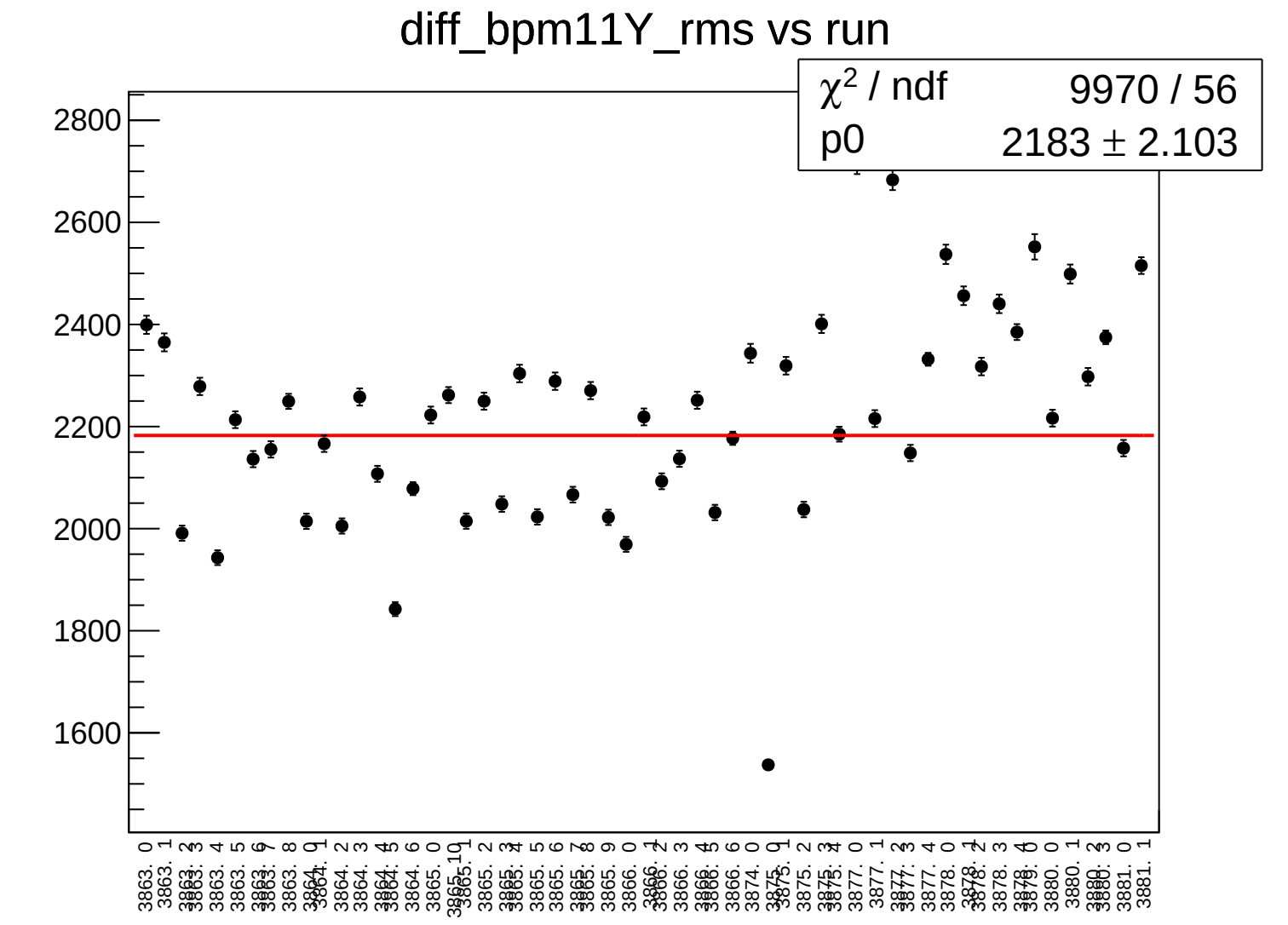

diff_bpm11X_mean vs run
χ² / ndf 49.01 / 56
p0 2.995 ± 8.013
pull
Entries 57
Mean 202.4
Std Dev 172.5

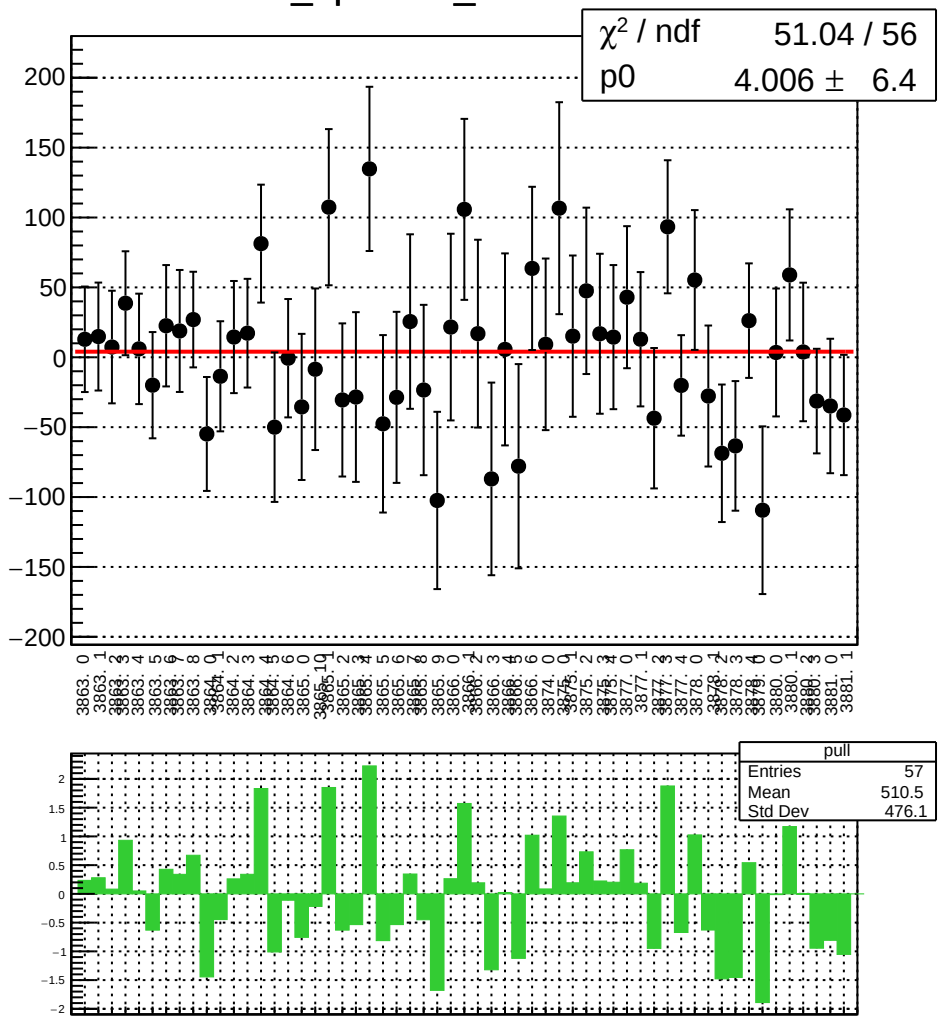

pull1D
Entries 57
Mean −0.02464
Std Dev 0.9269

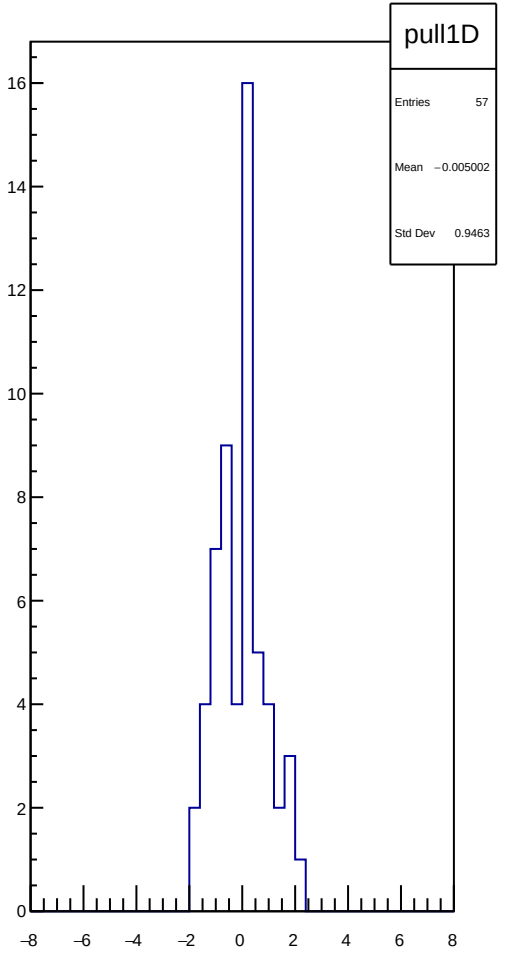

diff_bpm11X_rms vs run
χ² / ndf 1.887e+04 / 56
p0 5857 ± 5.666
8500
8000
7500
7000
6500
6000
5500
5000
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

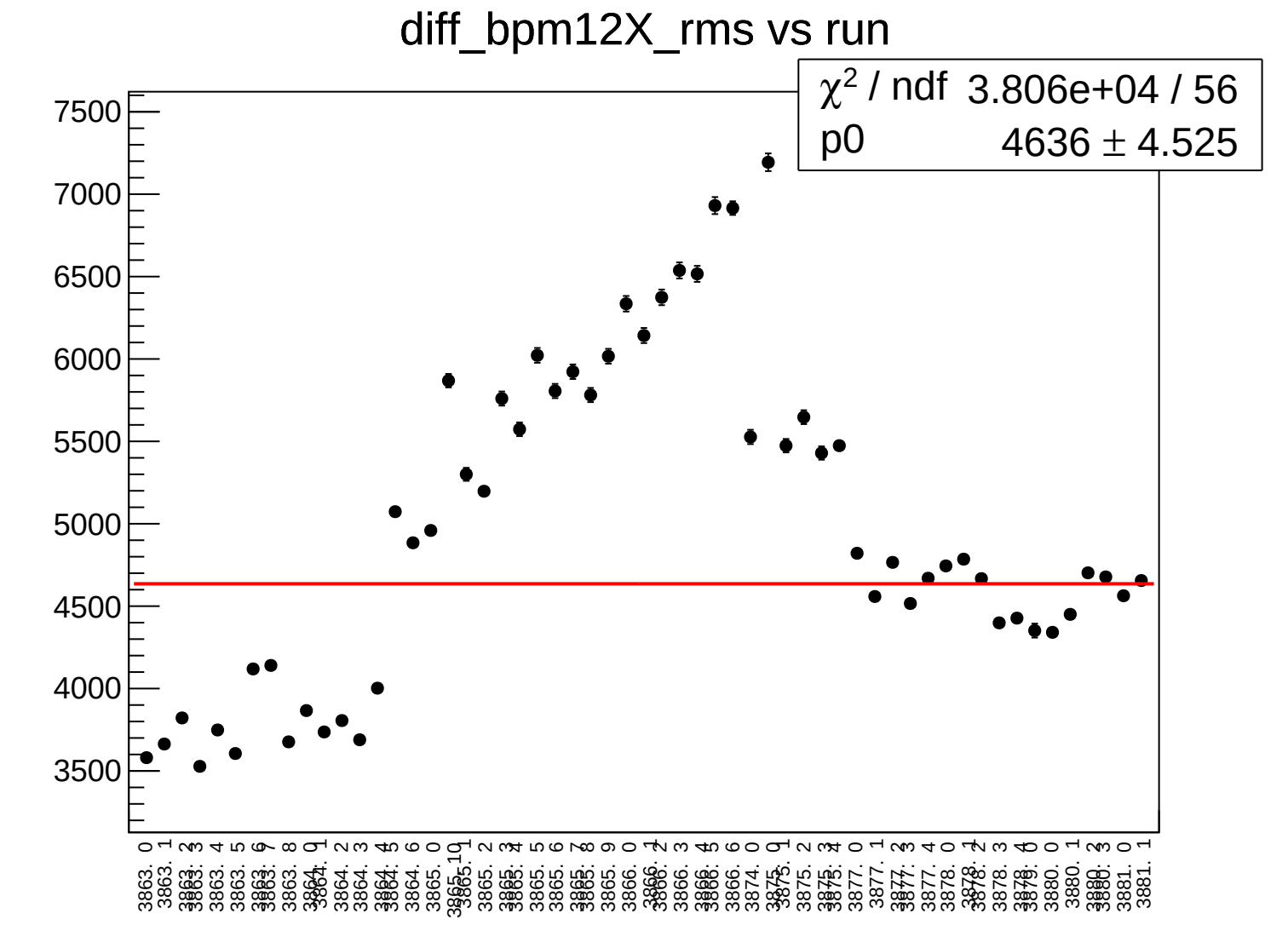

diff_bpm11Y_mean vs run
χ² / ndf 48.61 / 56
p0 6.551 ± 2.974
pull
Entries 57
Mean 184.1
Std Dev 143.8

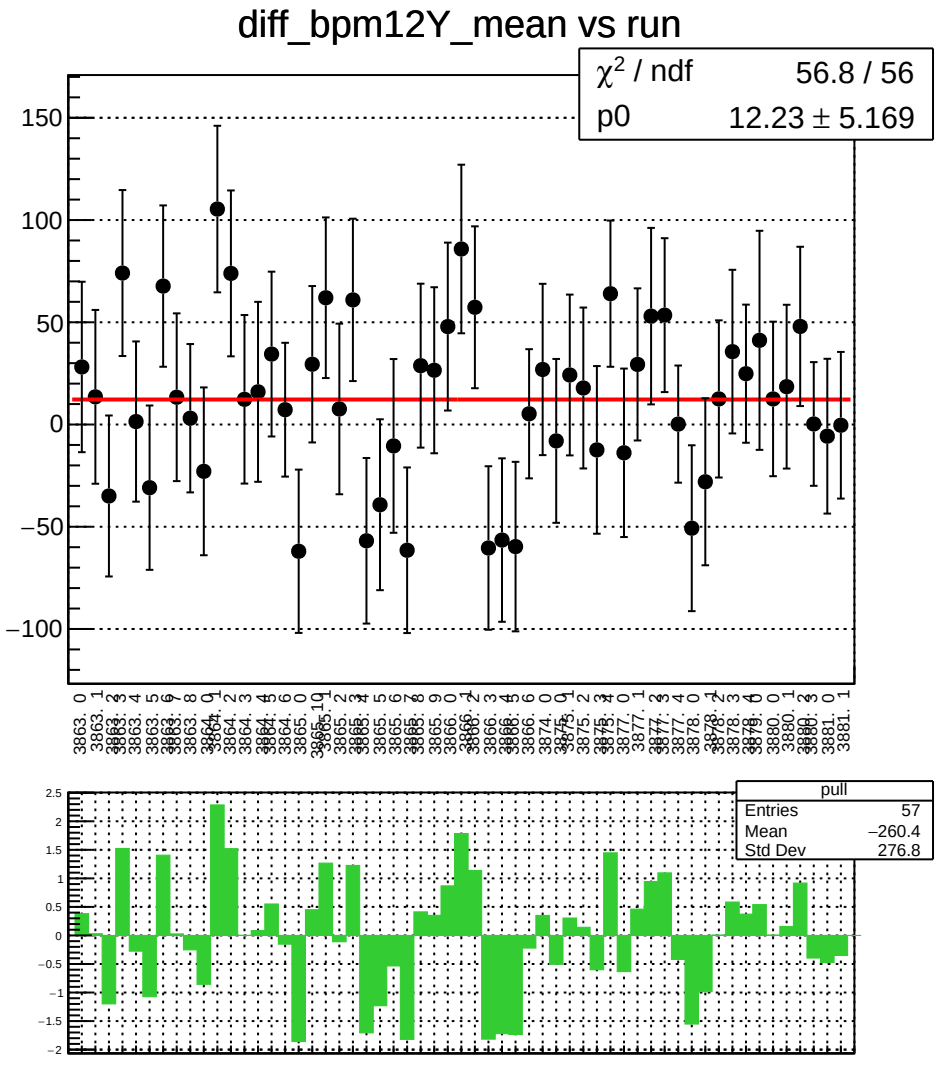

pull1D
Entries 57
Mean 0.01168
Std Dev 0.9234

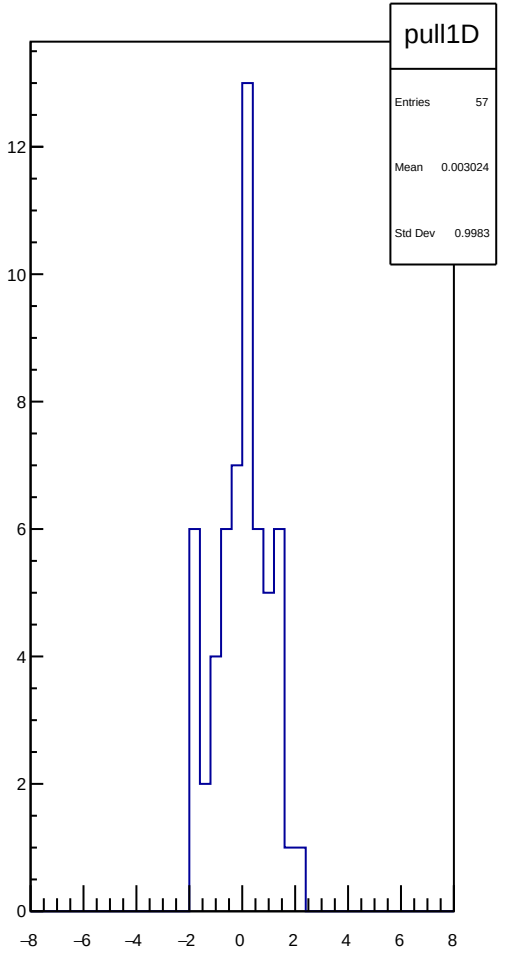

diff_bpm11Y_rms vs run
χ² / ndf 9970 / 56
p0 2183 ± 2.103
2800
2600
2400
2200
2000
1800
1600
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

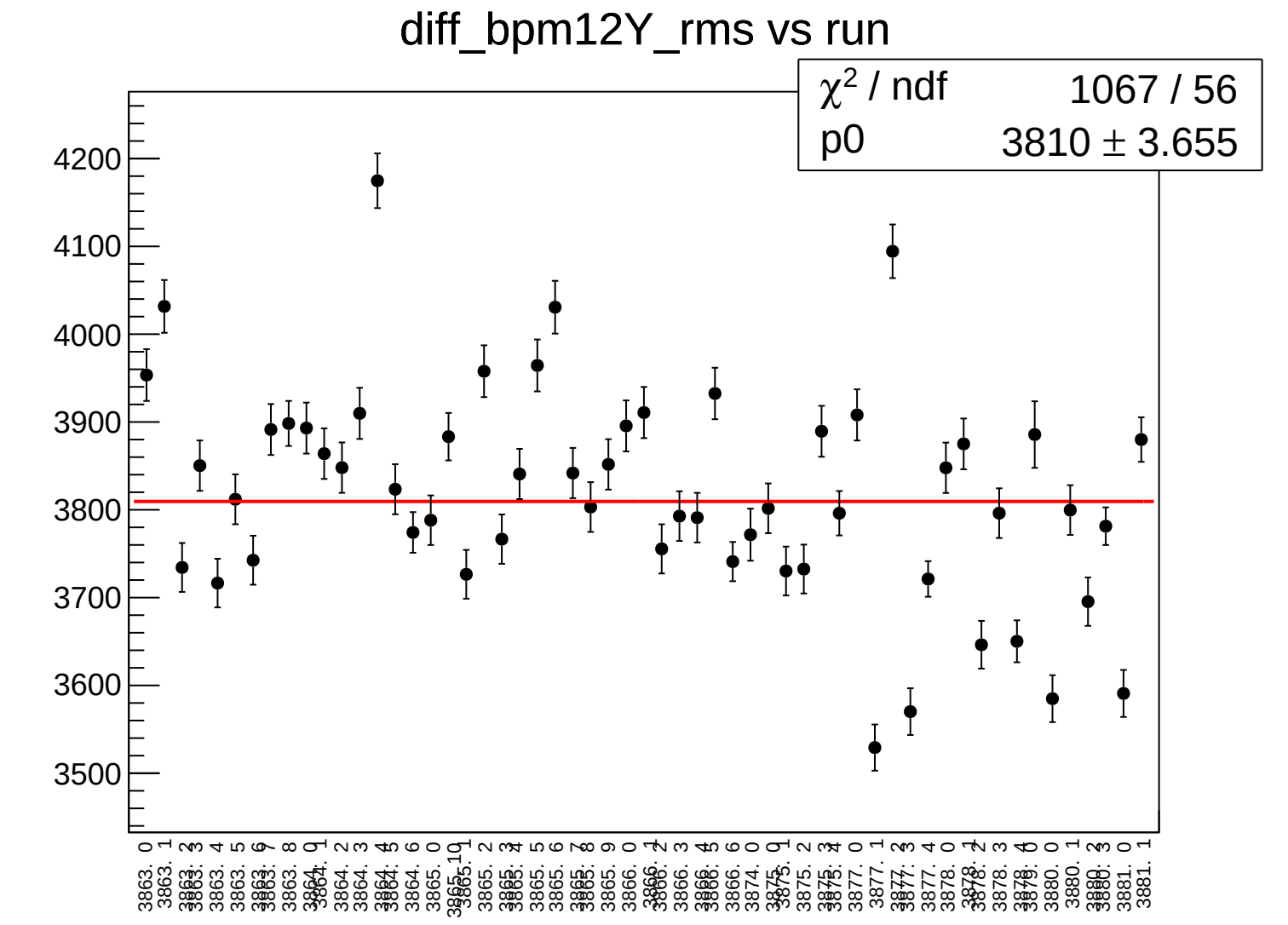

diff_bpm12X_mean vs run
χ² / ndf 51.04 / 56
p0 4.006 ± 6.4
pull
Entries 57
Mean 510.5
Std Dev 476.1

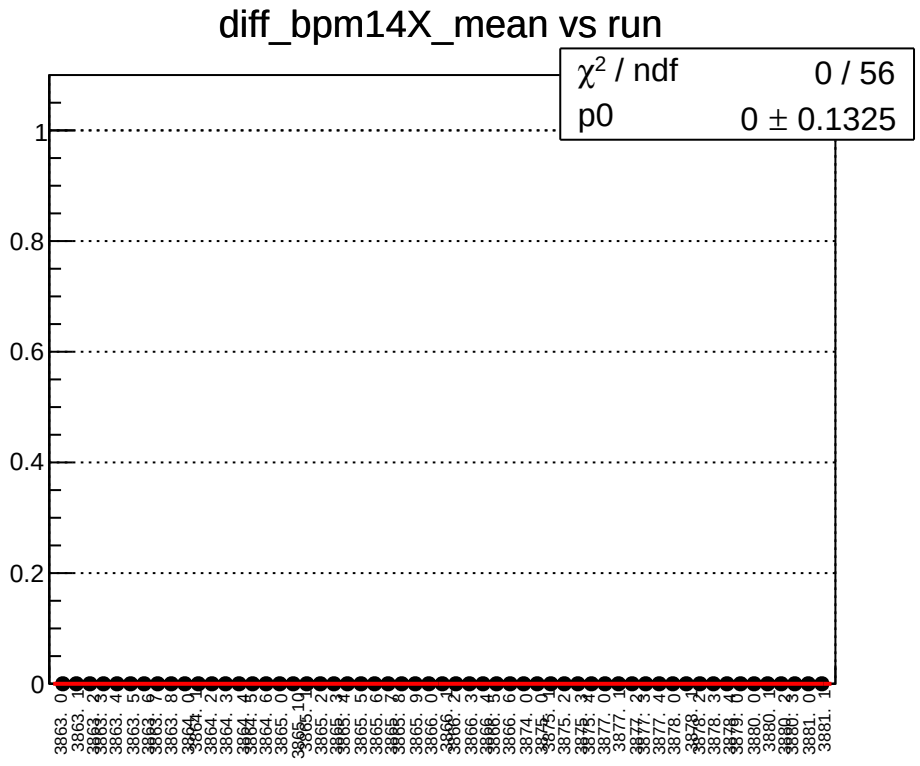

pull1D
Entries 57
Mean −0.005002
Std Dev 0.9463

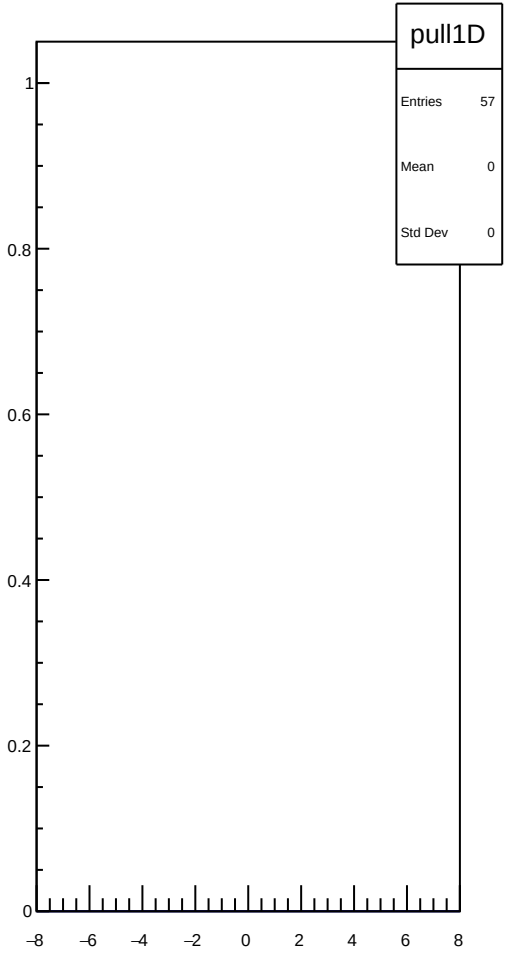

diff_bpm12X_rms vs run
χ² / ndf 3.806e+04 / 56
p0 4636 ± 4.525
7500
7000
6500
6000
5500
5000
4500
4000
3500
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

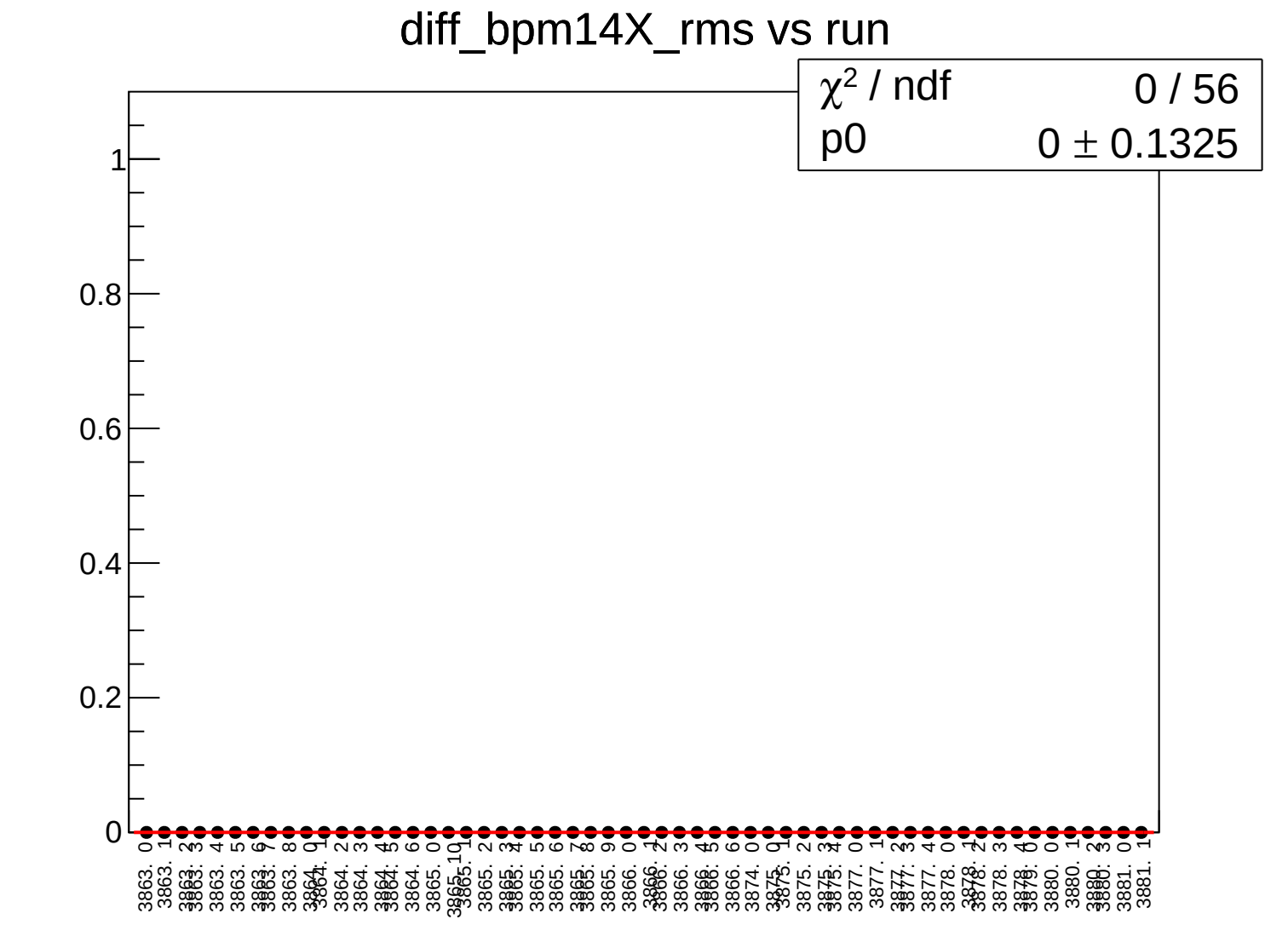

diff_bpm12Y_mean vs run
χ^2 / ndf 56.8 / 56
p0 12.23 ± 5.169
pull
Entries 57
Mean −260.4
Std Dev 276.8

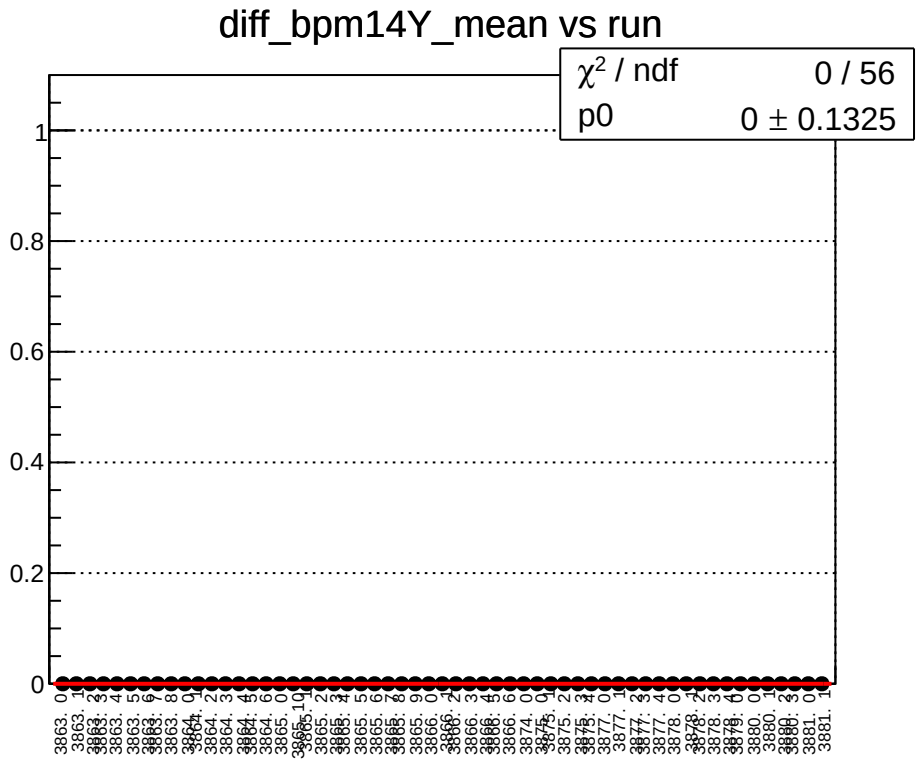

pull1D
Entries 57
Mean 0.003024
Std Dev 0.9983

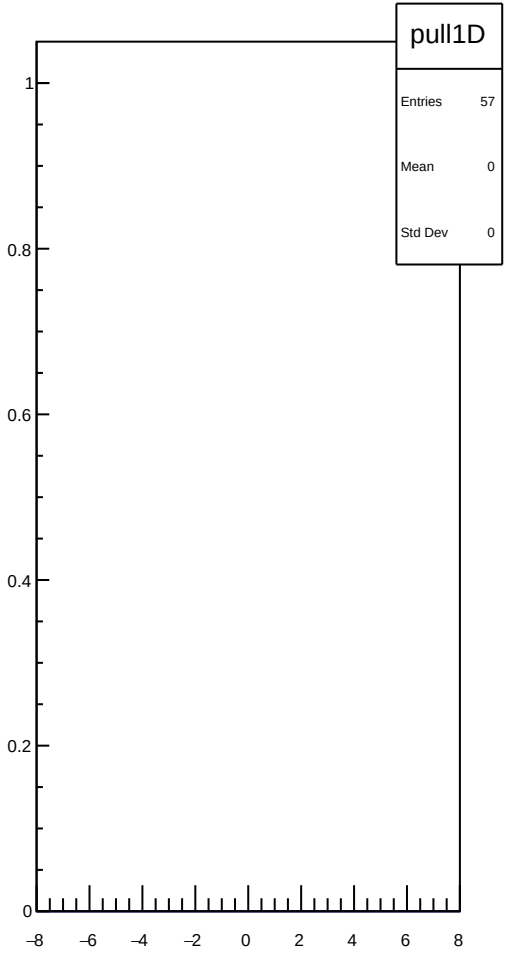

diff_bpm12Y_rms vs run
χ² / ndf 1067 / 56
p0 3810 ± 3.655
4200
4100
4000
3900
3800
3700
3600
3500
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

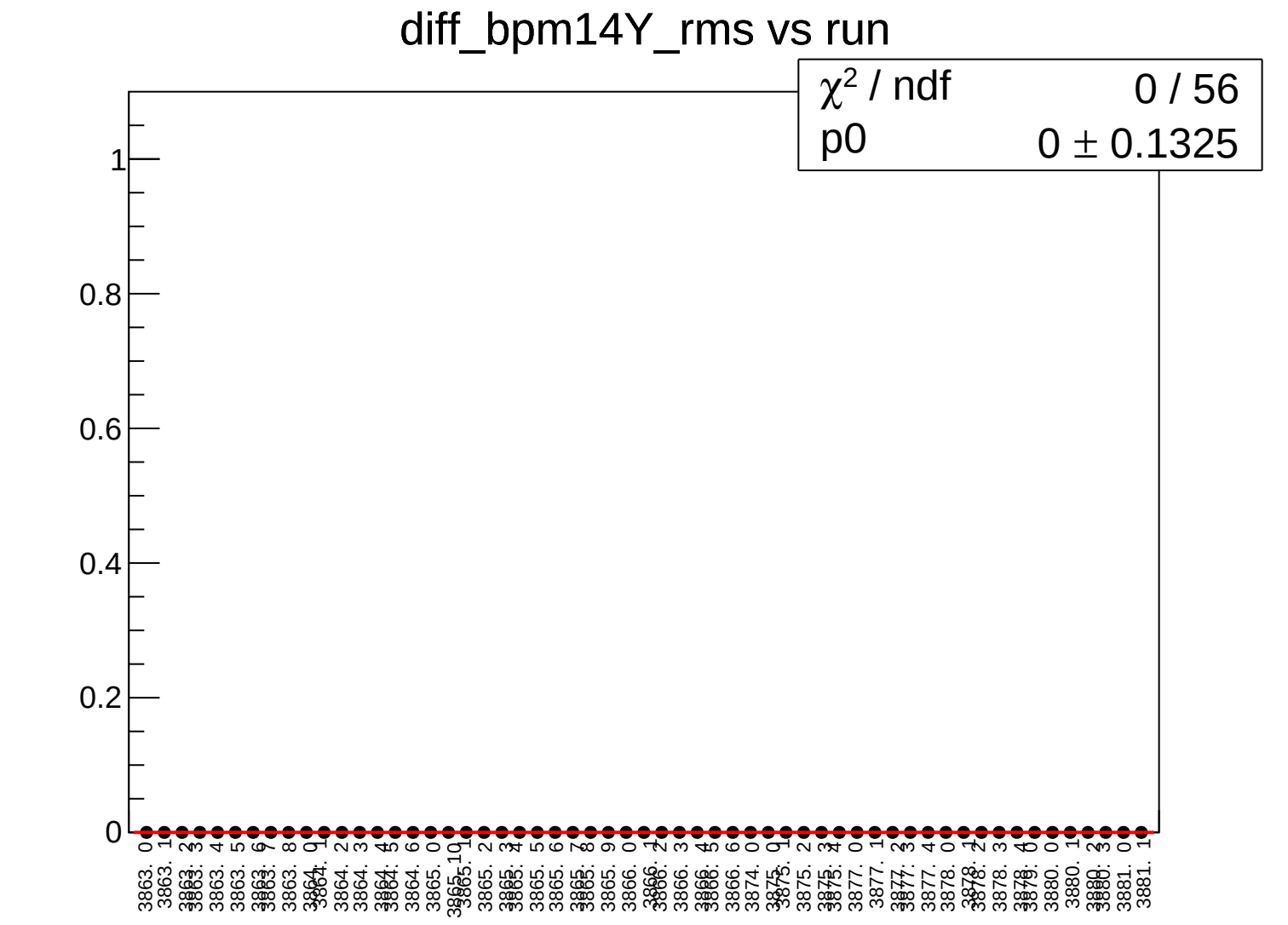

diff_bpm14X_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

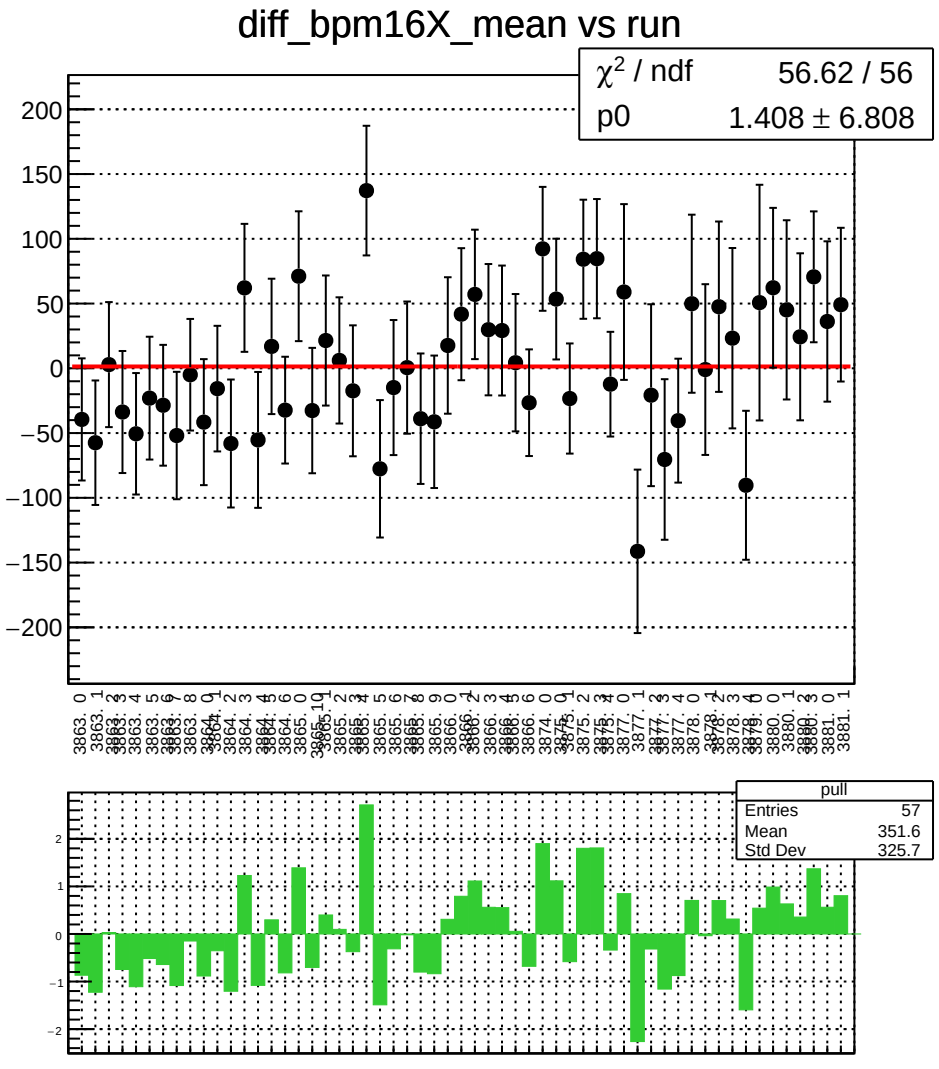

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

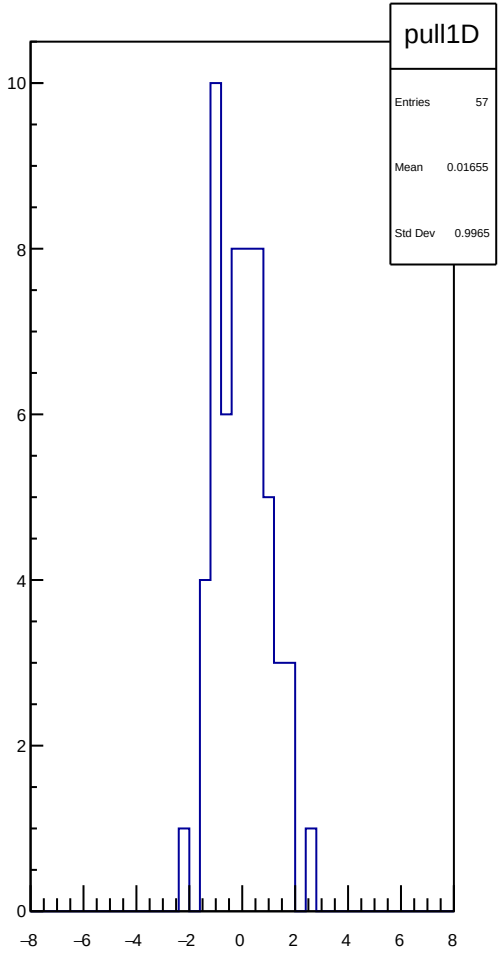

diff_bpm14X_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

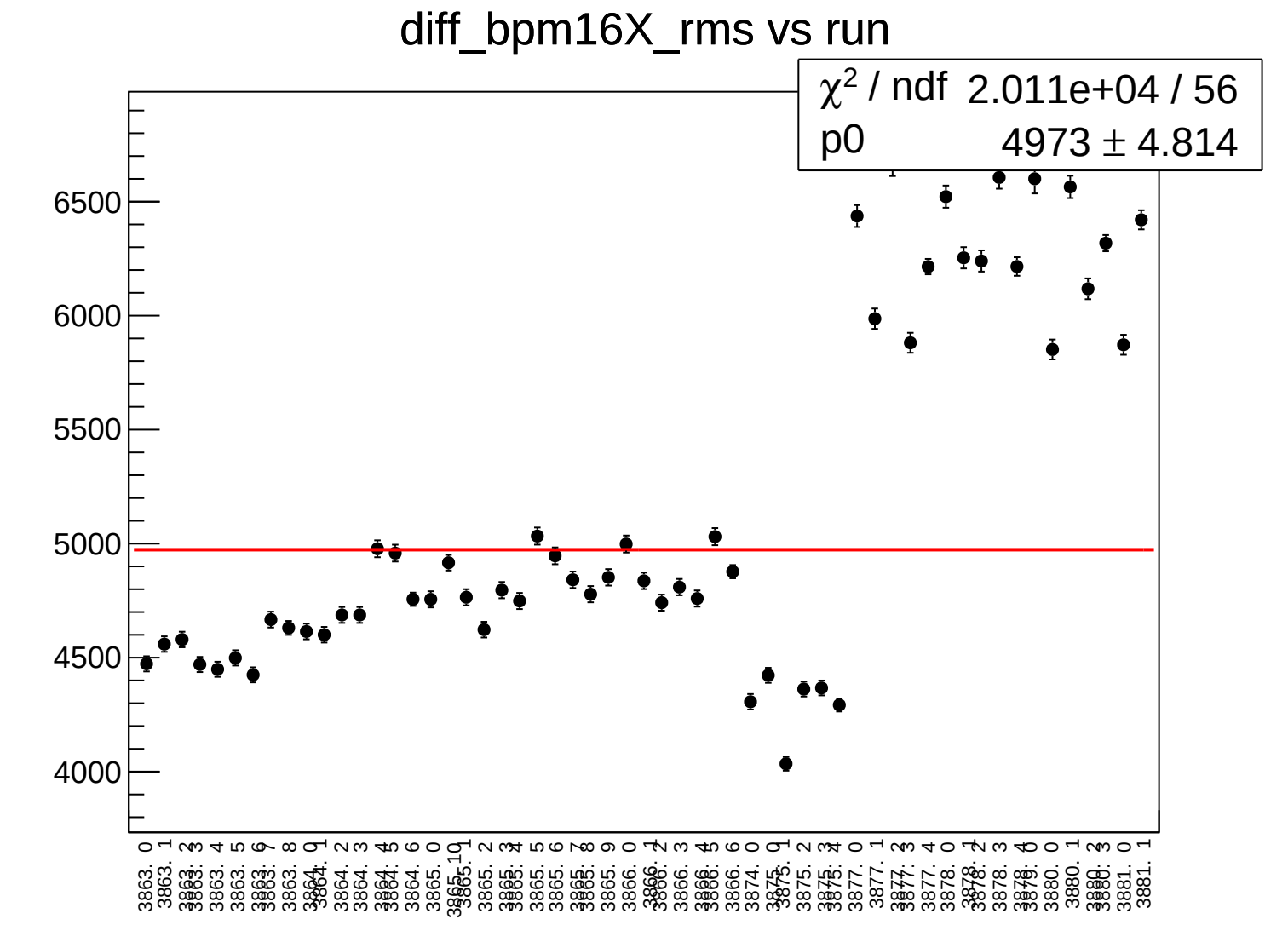

diff_bpm14Y_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

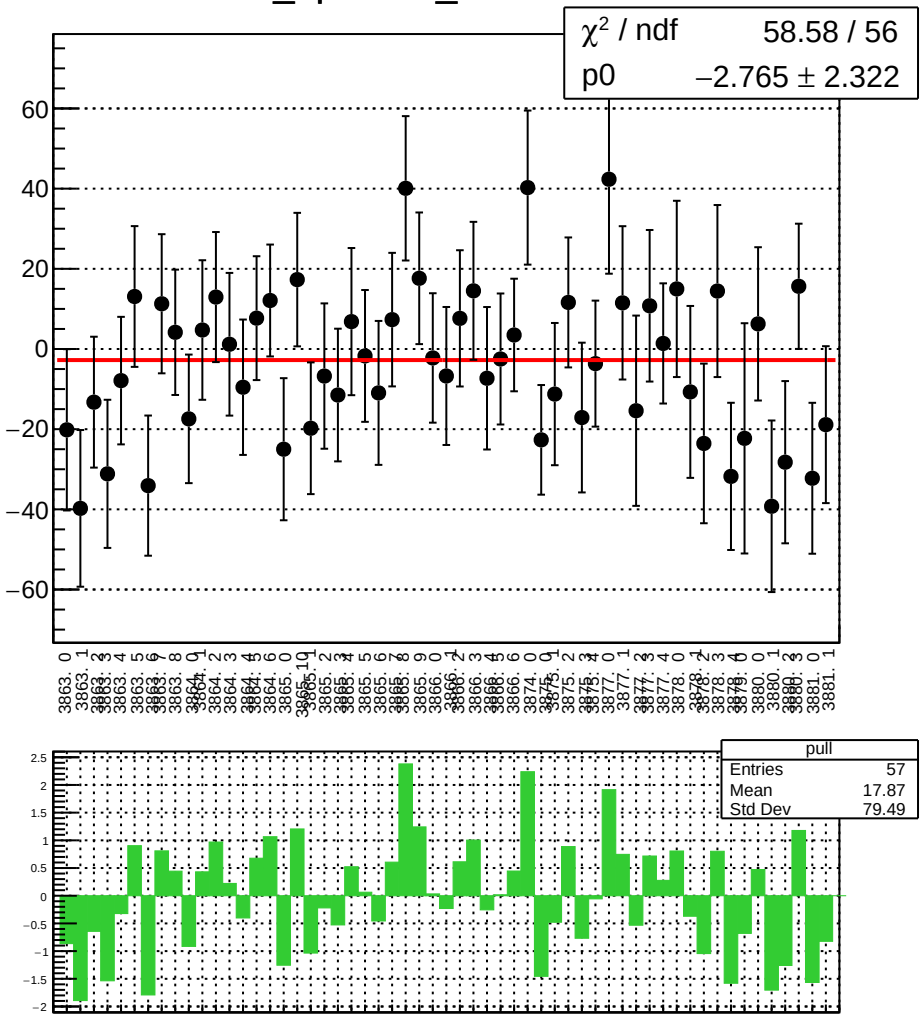

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

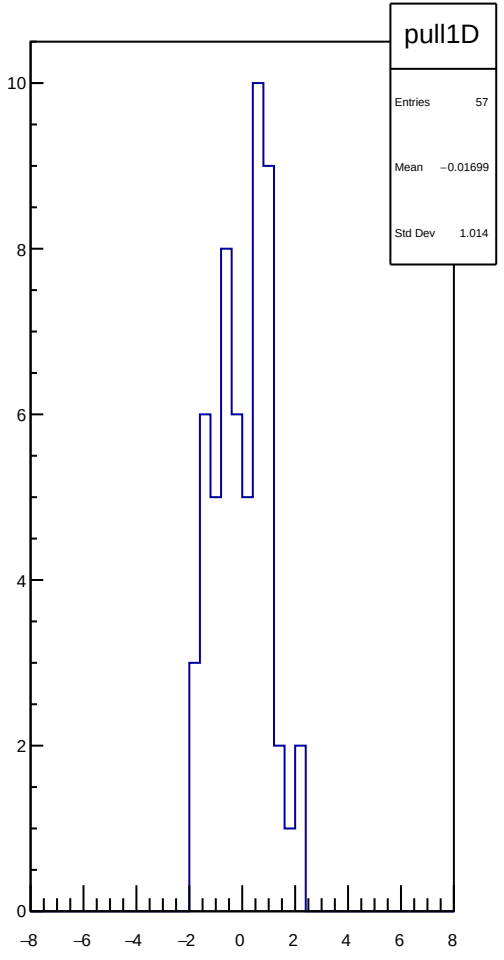

diff_bpm14Y_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

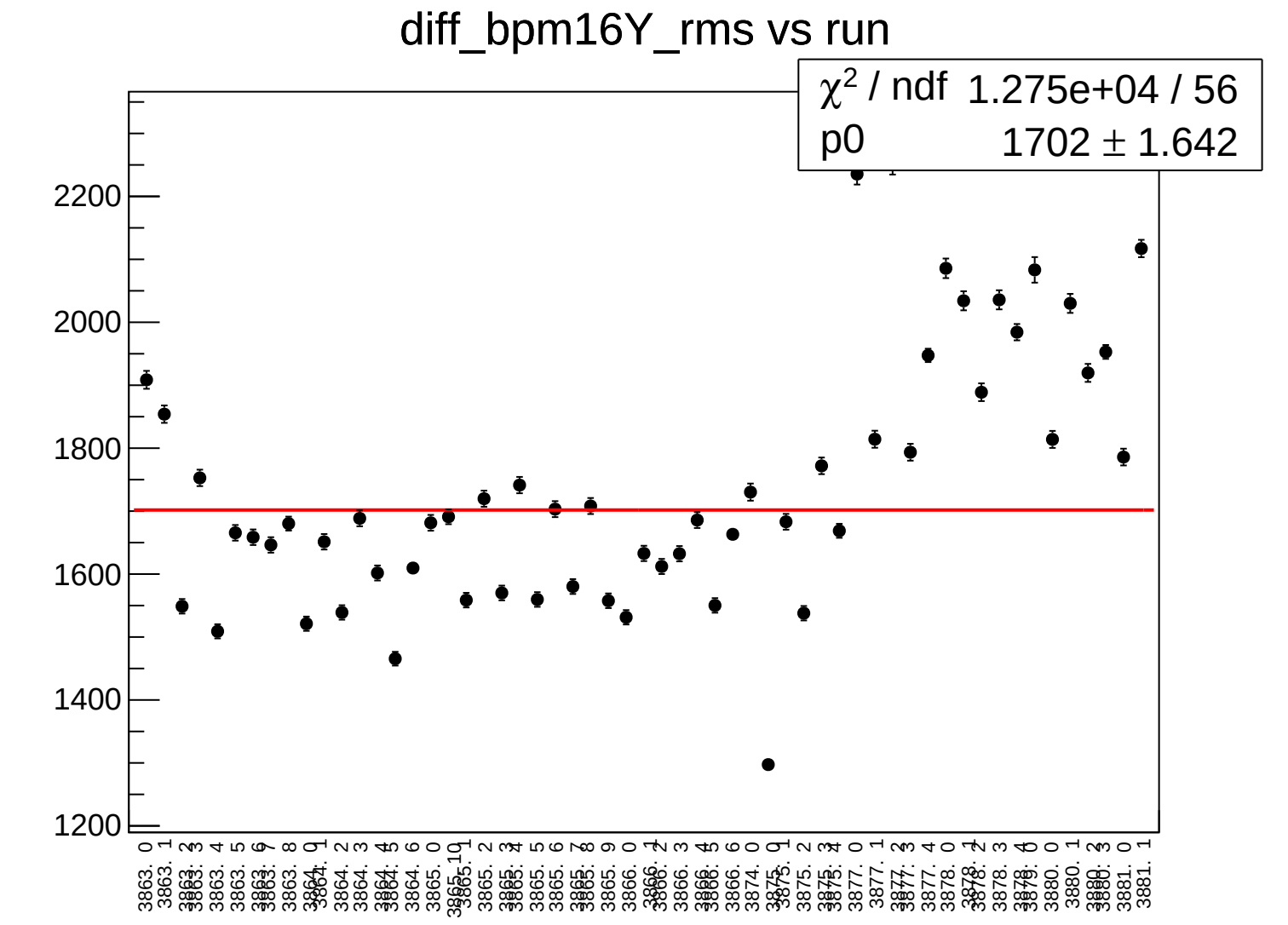

diff_bpm16X_mean vs run
χ² / ndf 56.62 / 56
p0 1.408 ± 6.808
pull
Entries 57
Mean 351.6
Std Dev 325.7

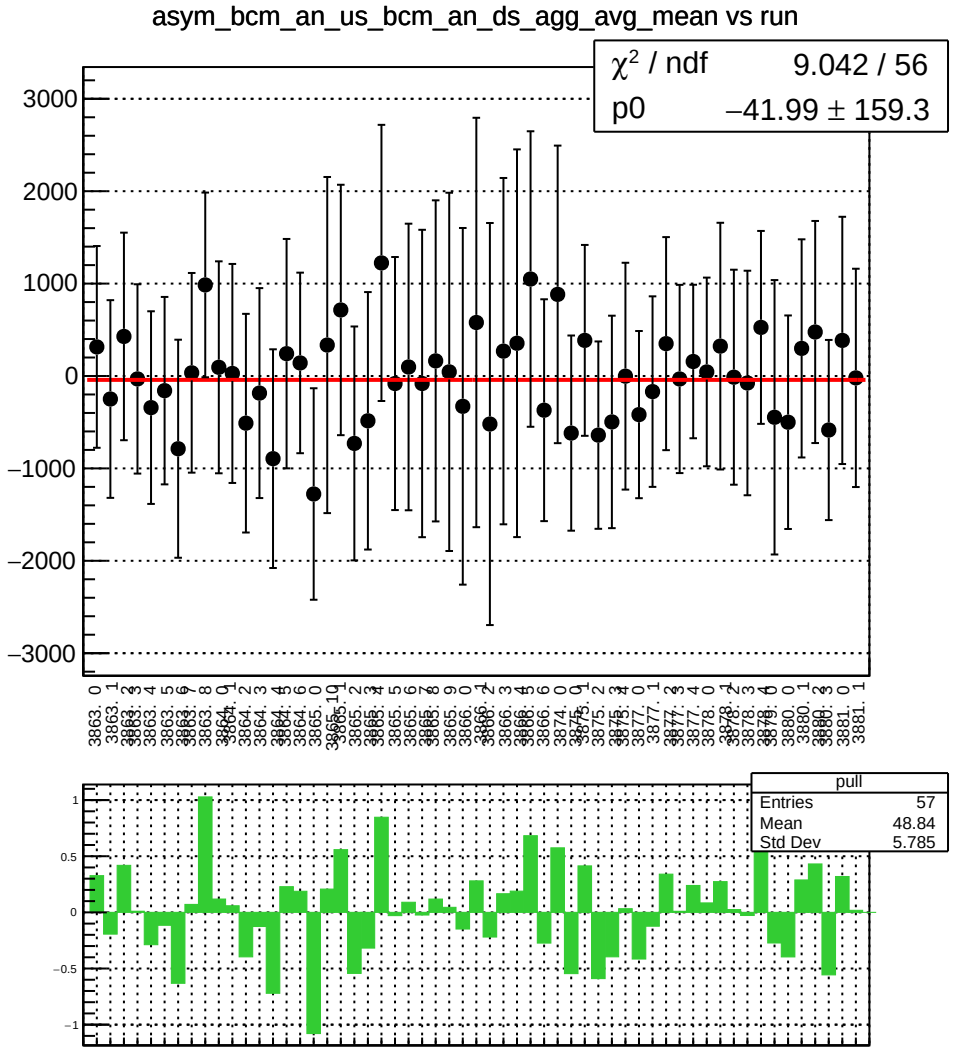

pull1D
Entries 57
Mean 0.01655
Std Dev 0.9965

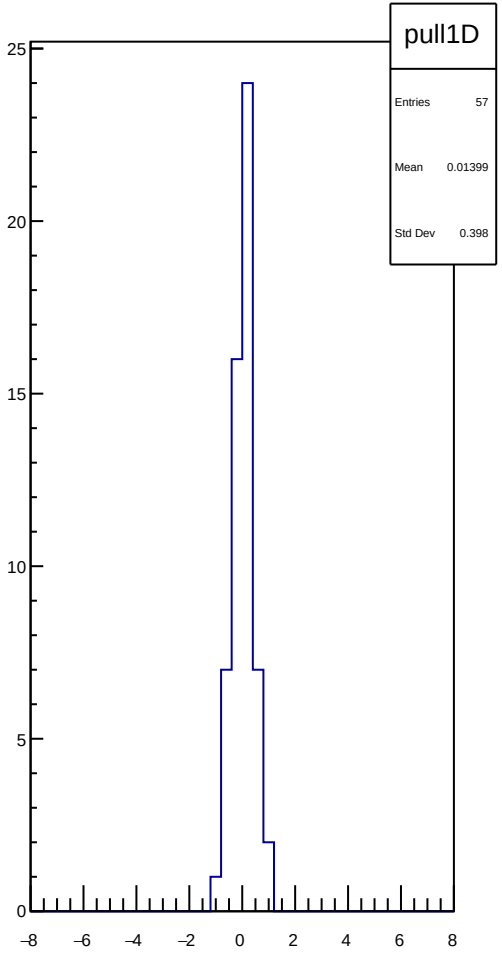

diff_bpm16X_rms vs run
χ² / ndf 2.011e+04 / 56
p0 4973 ± 4.814
6500
6000
5500
5000
4500
4000
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

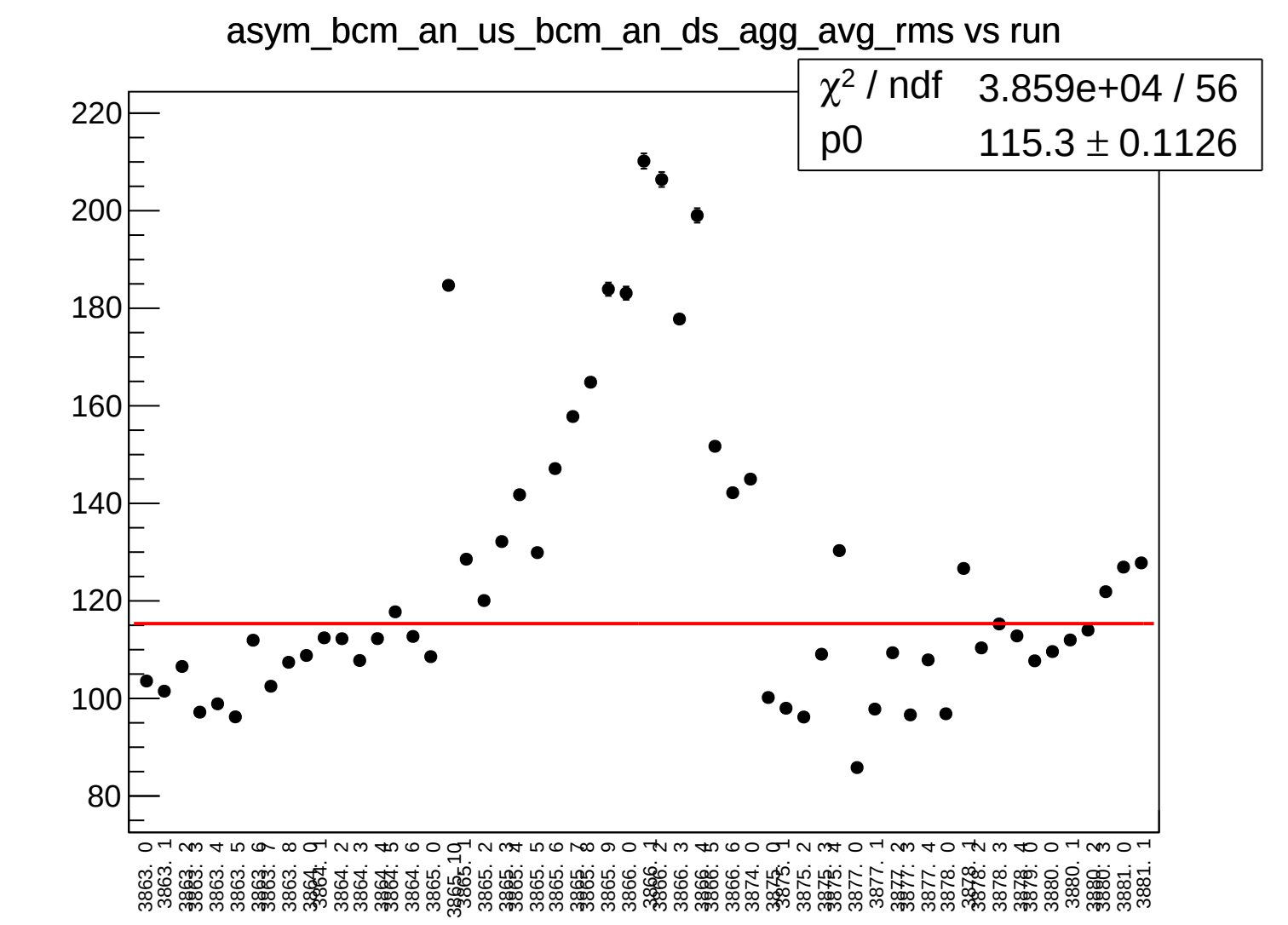

diff_bpm16Y_mean vs run
χ² / ndf 58.58 / 56
p0 −2.765 ± 2.322
pull
Entries 57
Mean 17.87
Std Dev 79.49

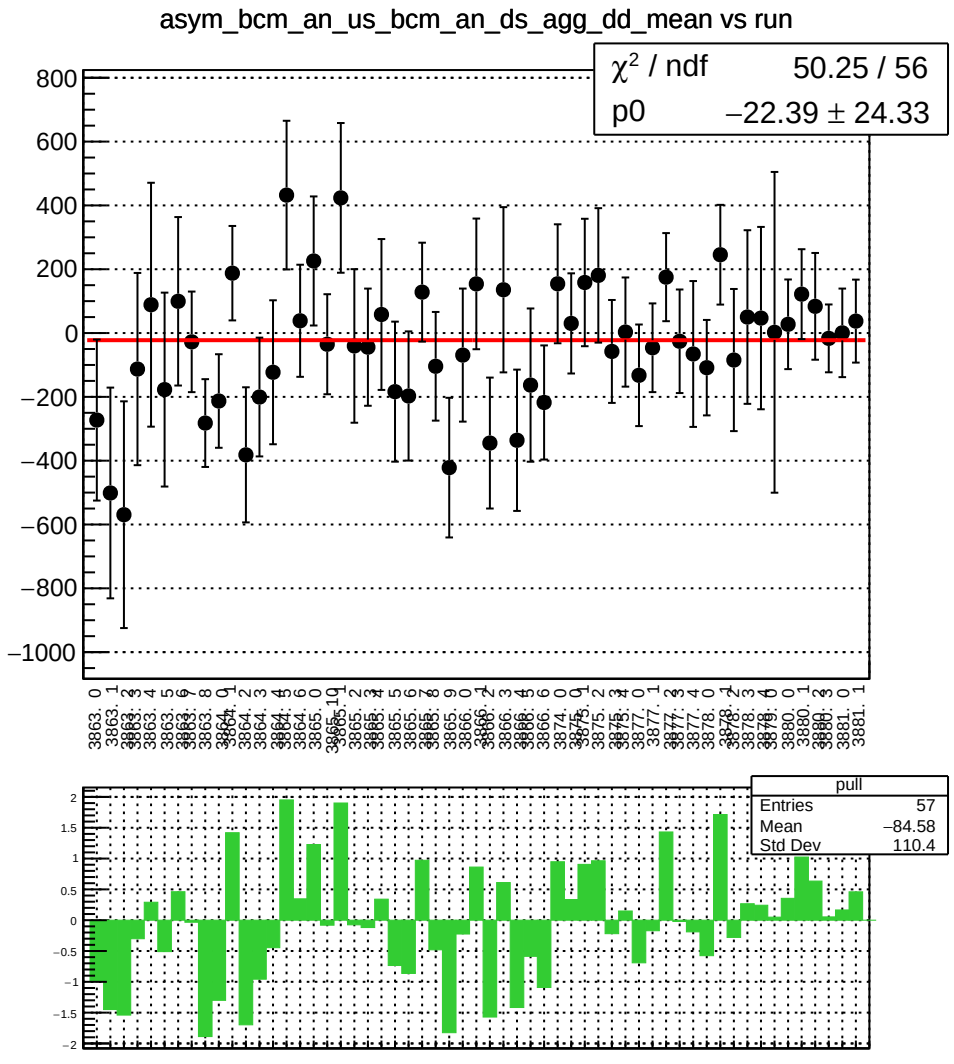

pull1D
Entries 57
Mean −0.01699
Std Dev 1.014

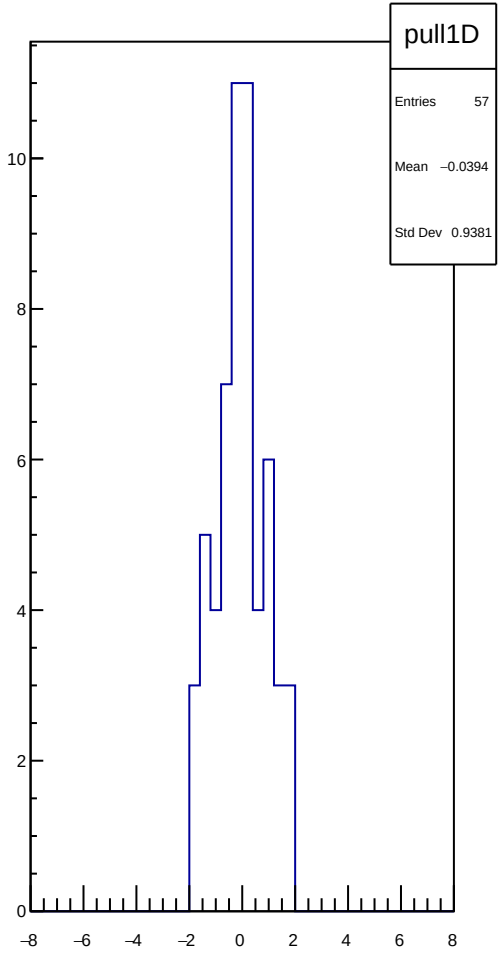

diff_bpm16Y_rms vs run
χ² / ndf 1.275e+04 / 56
p0 1702 ± 1.642
2200
2000
1800
1600
1400
1200

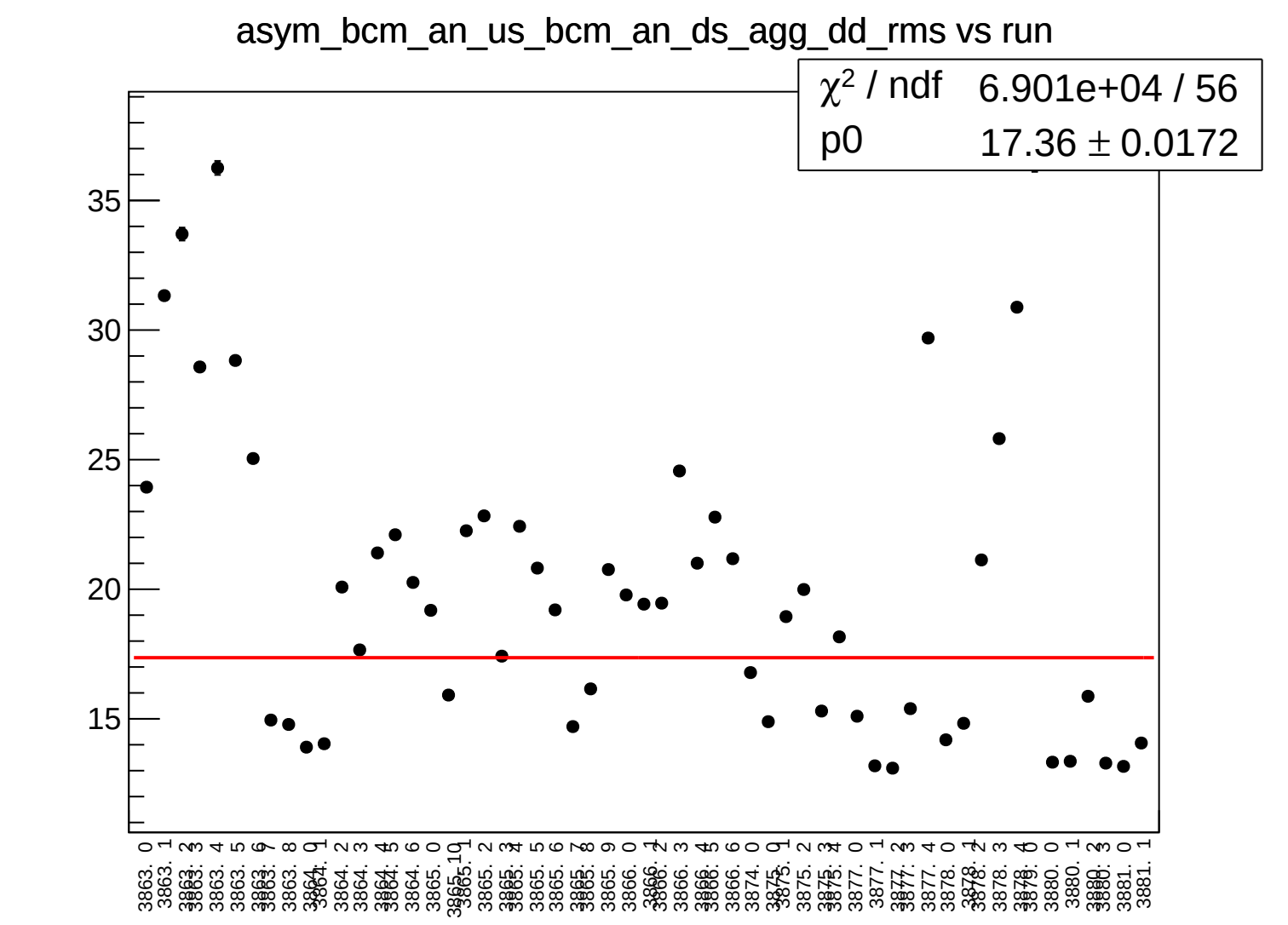

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 9.042 / 56
p0 −41.99 ± 159.3
pull
Entries 57
Mean 48.84
Std Dev 5.785

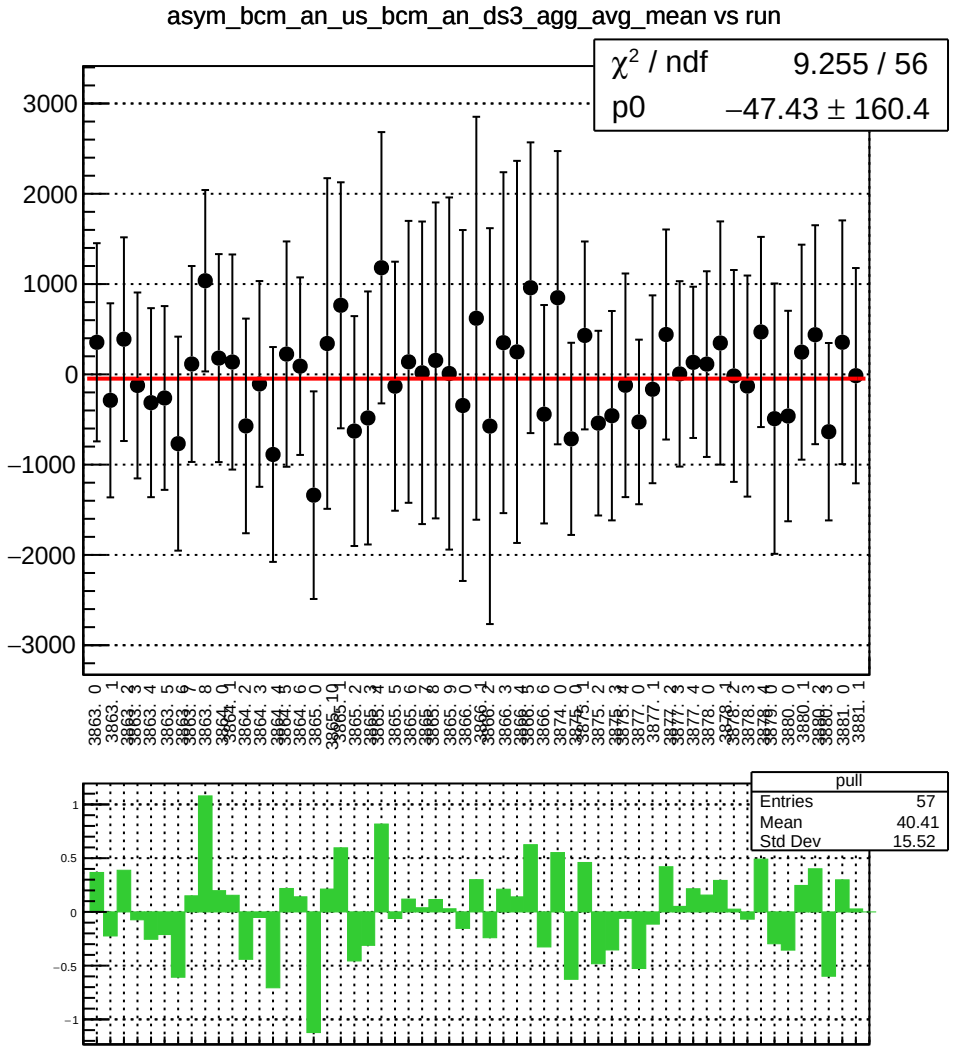

pull1D
Entries 57
Mean 0.01399
Std Dev 0.398

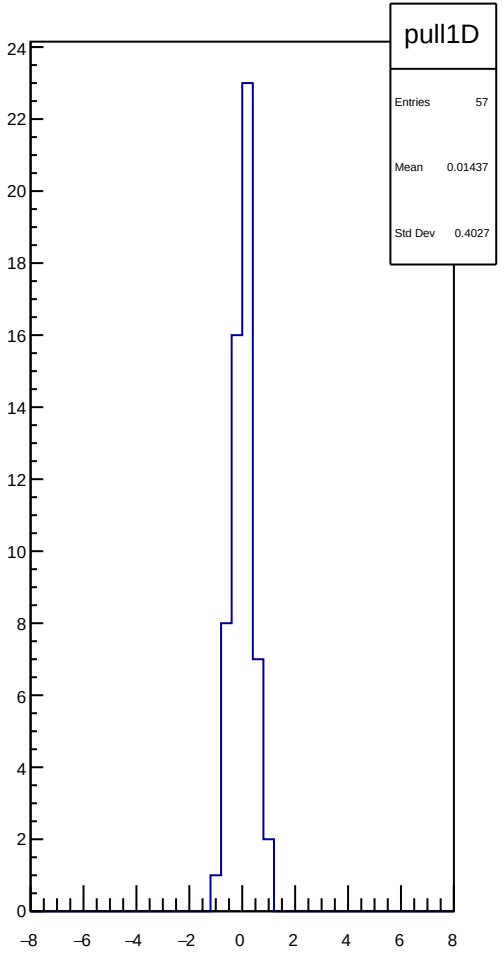

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.859e+04 / 56
p0 115.3 ± 0.1126
220
200
180
160
140
120
100
80

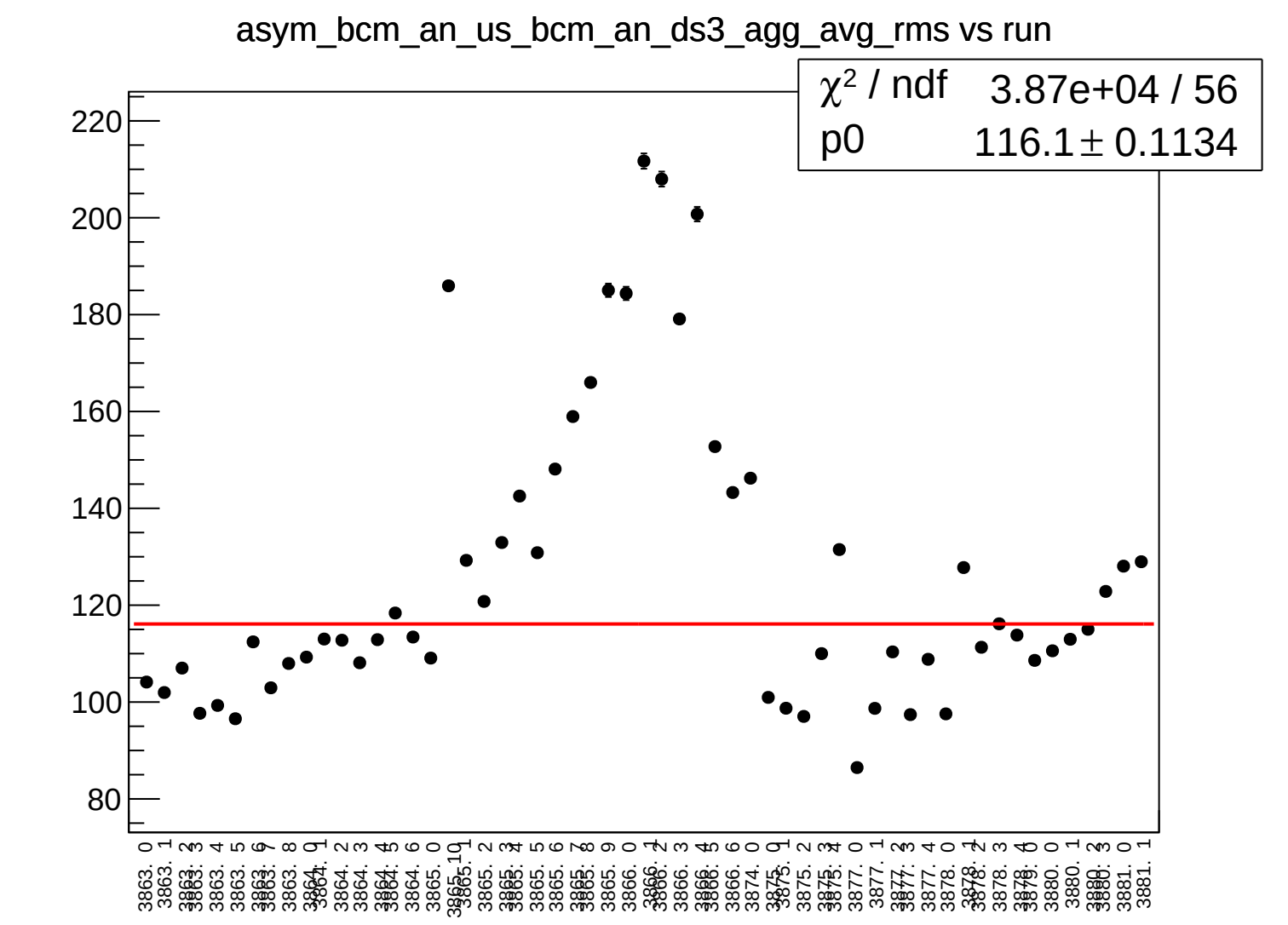

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 50.25 / 56
p0 −22.39 ± 24.33
pull
Entries 57
Mean −84.58
Std Dev 110.4

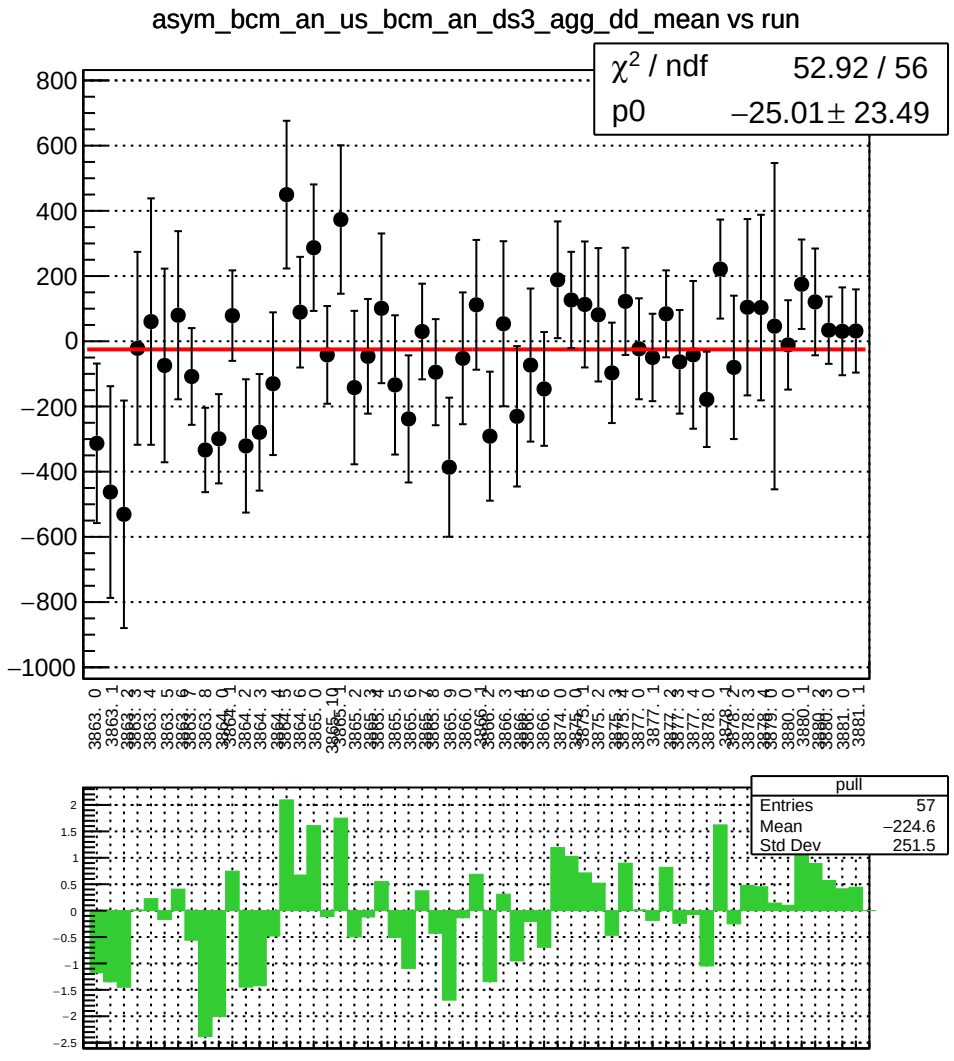

pull1D
Entries 57
Mean −0.0394
Std Dev 0.9381

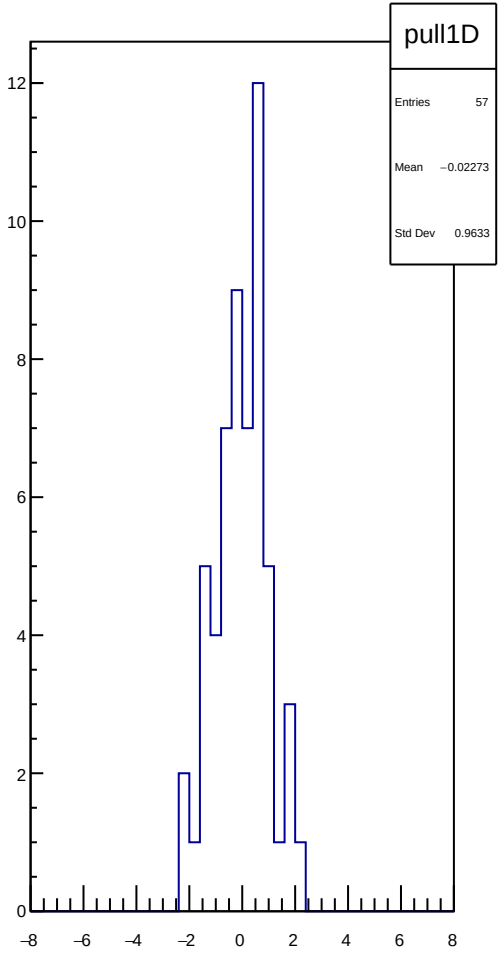

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 6.901e+04 / 56
p0 17.36 ± 0.0172
35
30
25
20
15

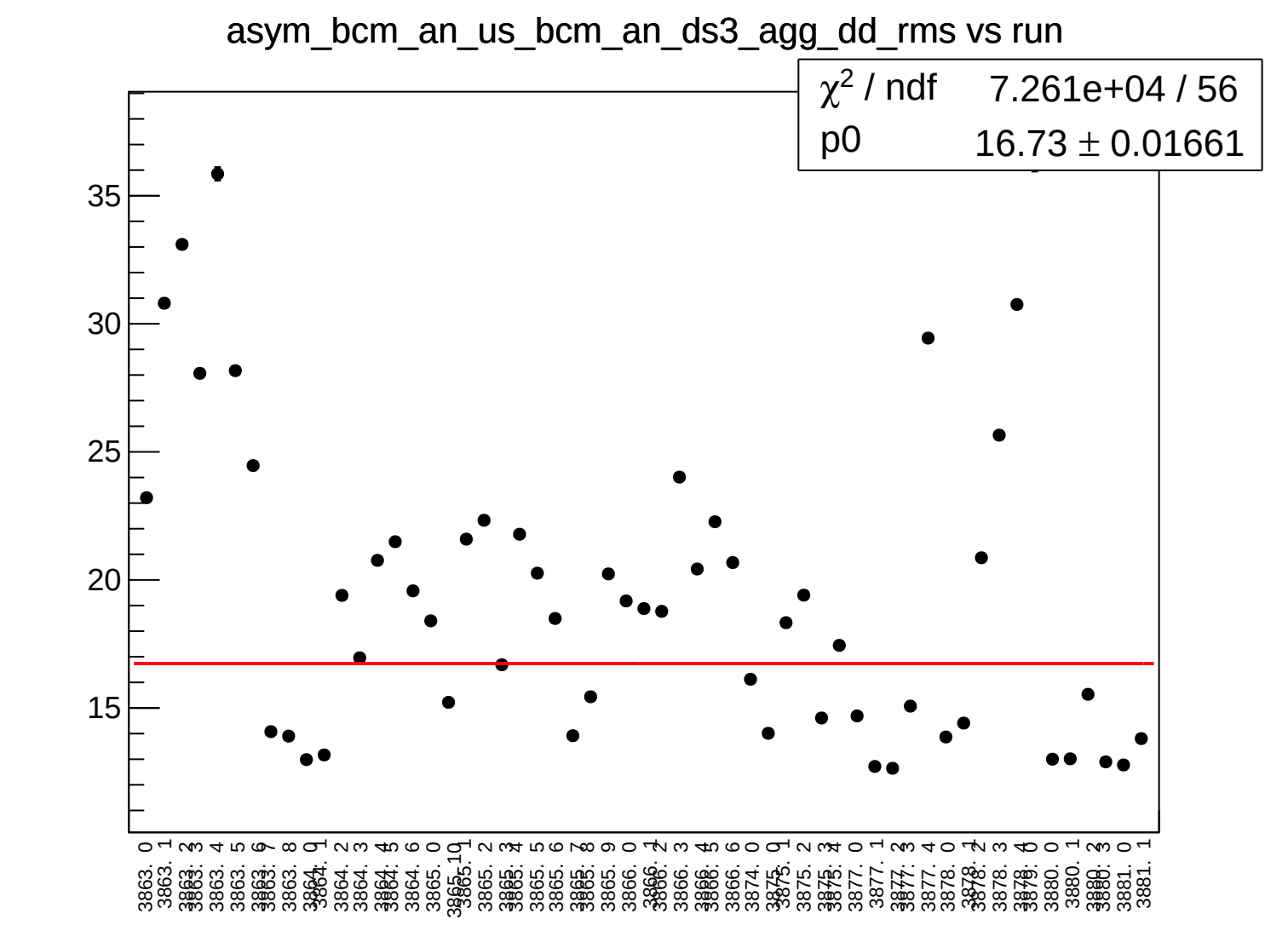

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 9.255 / 56
p0 −47.43 ± 160.4
pull
Entries 57
Mean 40.41
Std Dev 15.52

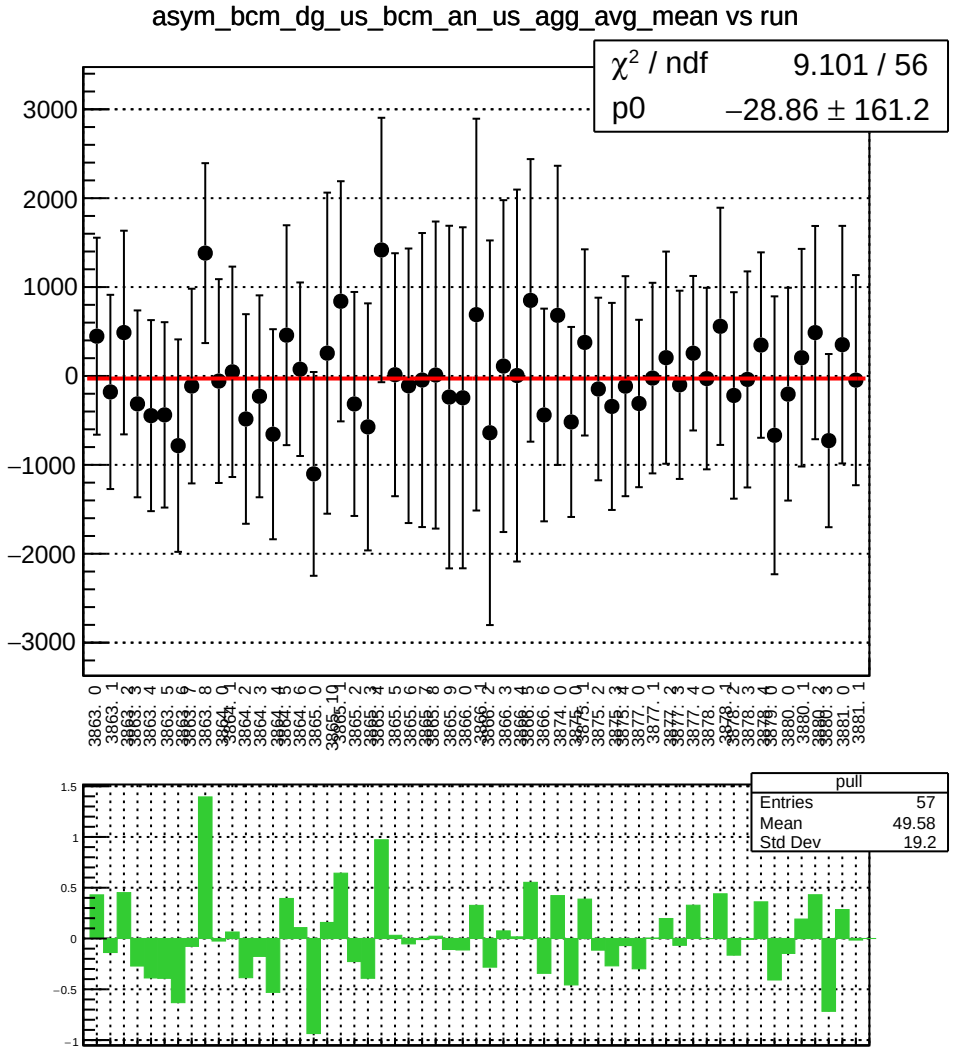

pull1D
Entries 57
Mean 0.01437
Std Dev 0.4027

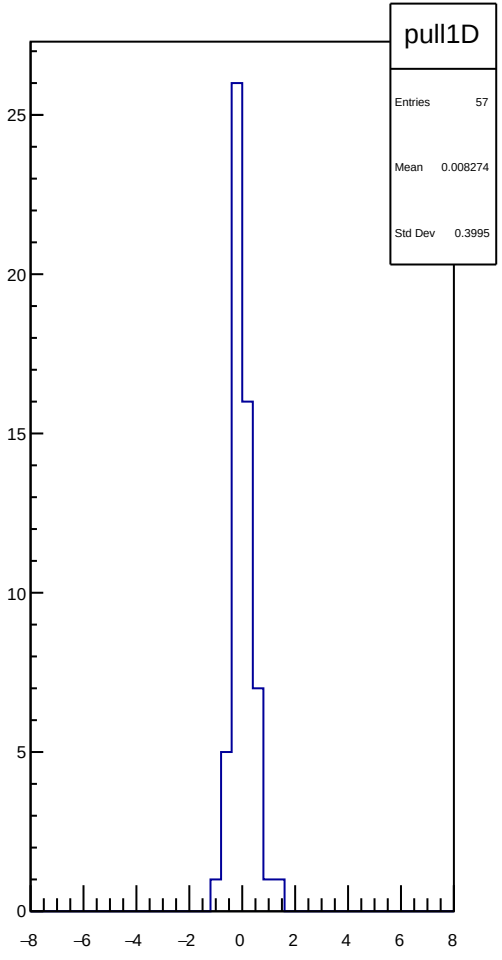

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3.87e+04 / 56
p0 116.1 ± 0.1134
220
200
180
160
140
120
100
80

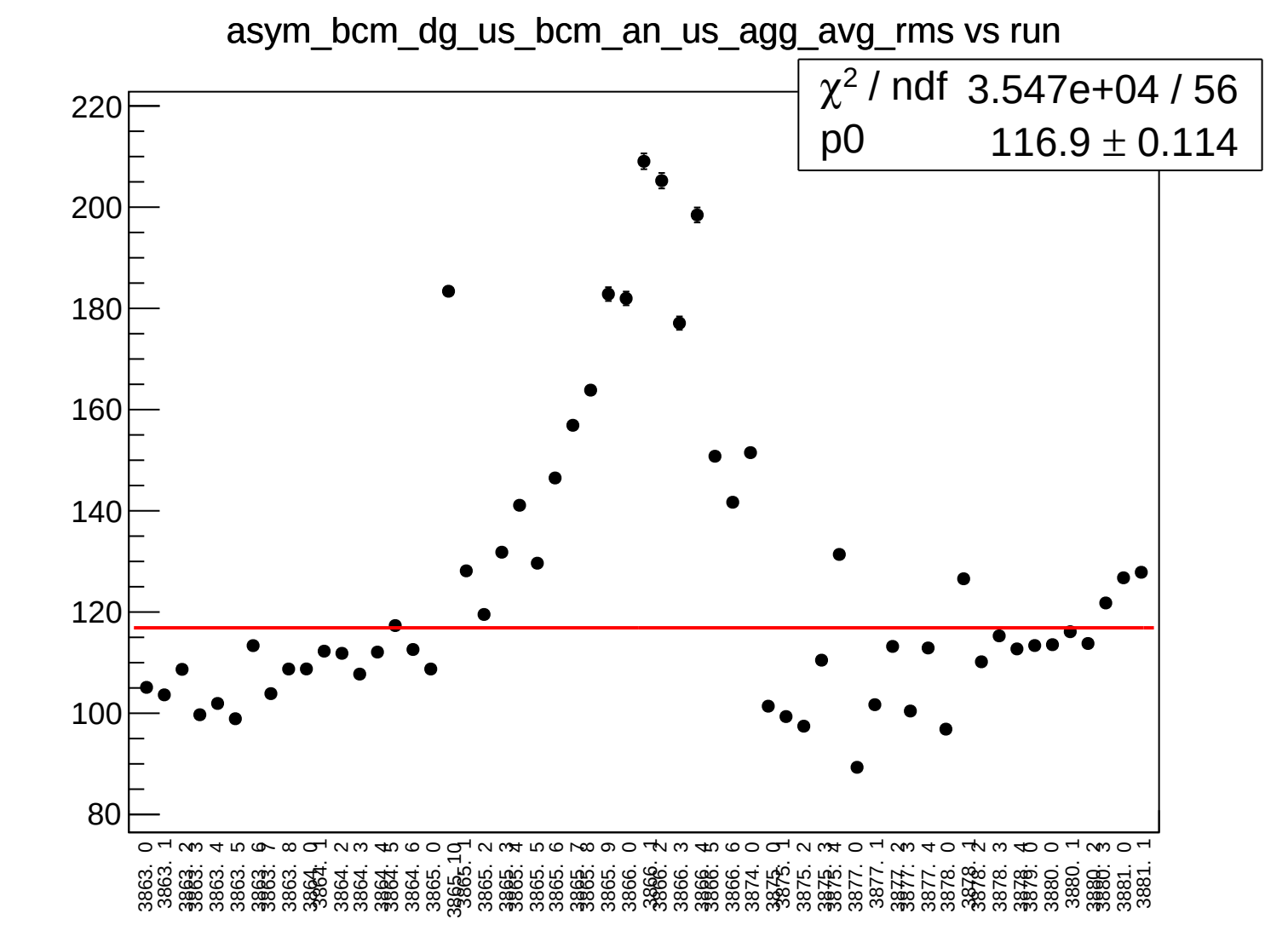

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 52.92 / 56
p0 −25.01 ± 23.49
pull
Entries 57
Mean −224.6
Std Dev 251.5

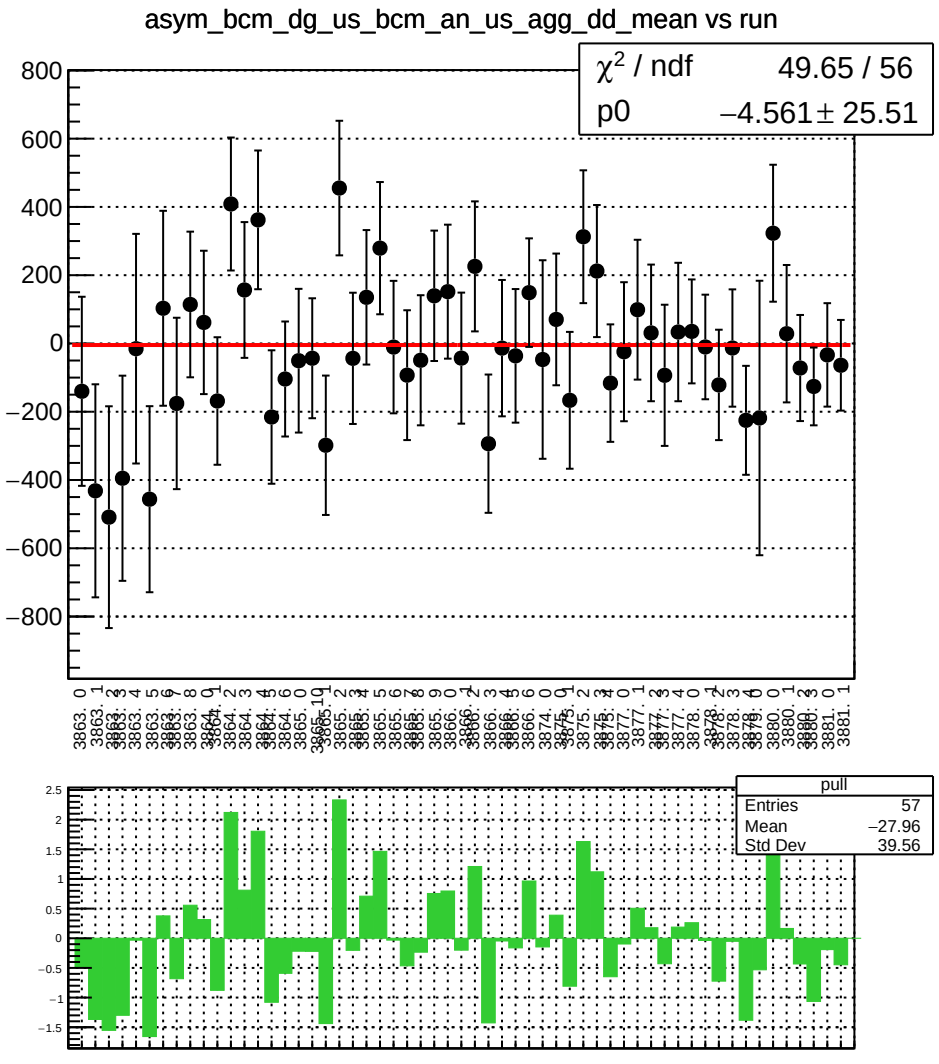

pull1D
Entries 57
Mean −0.02273
Std Dev 0.9633

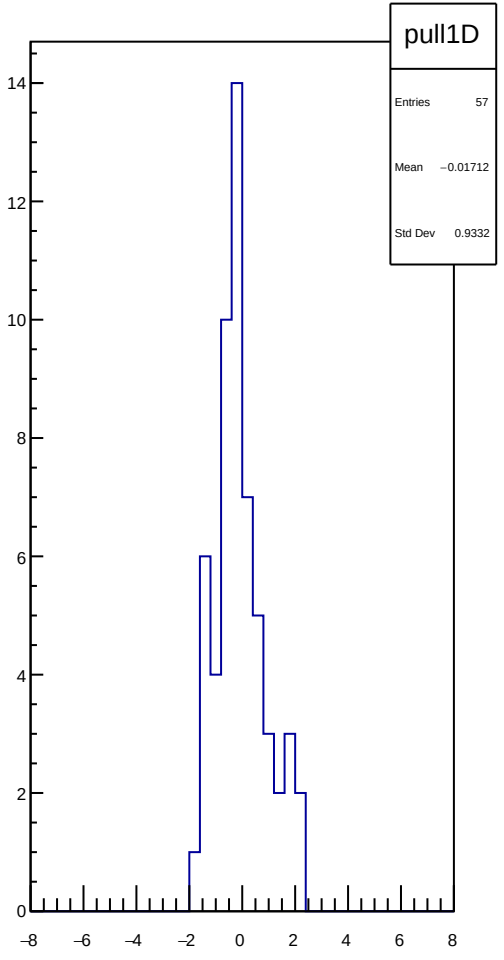

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 7.261e+04 / 56
p0 16.73 ± 0.01661
35
30
25
20
15

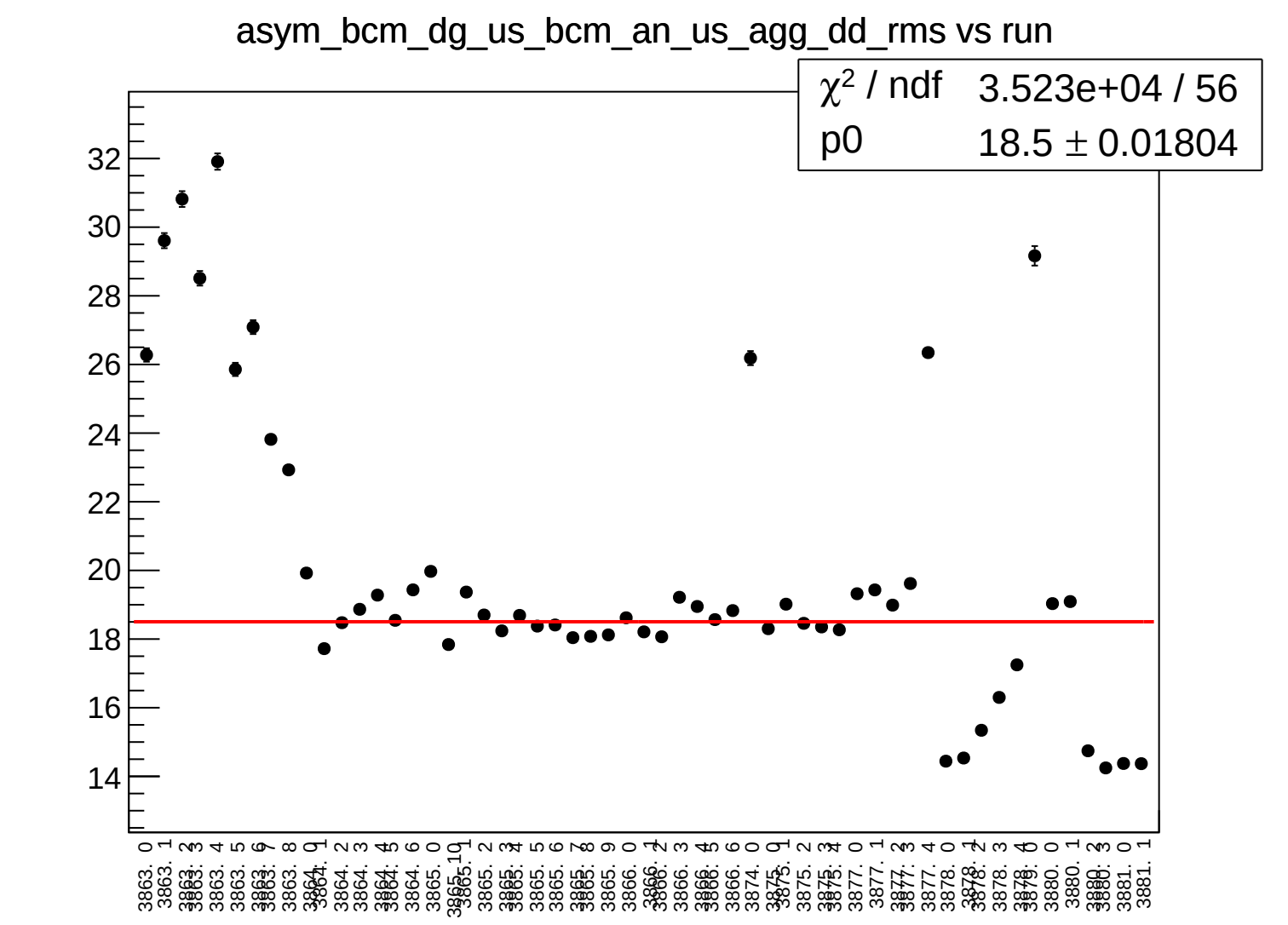

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 9.101 / 56
p0 −28.86 ± 161.2
pull
Entries 57
Mean 49.58
Std Dev 19.2

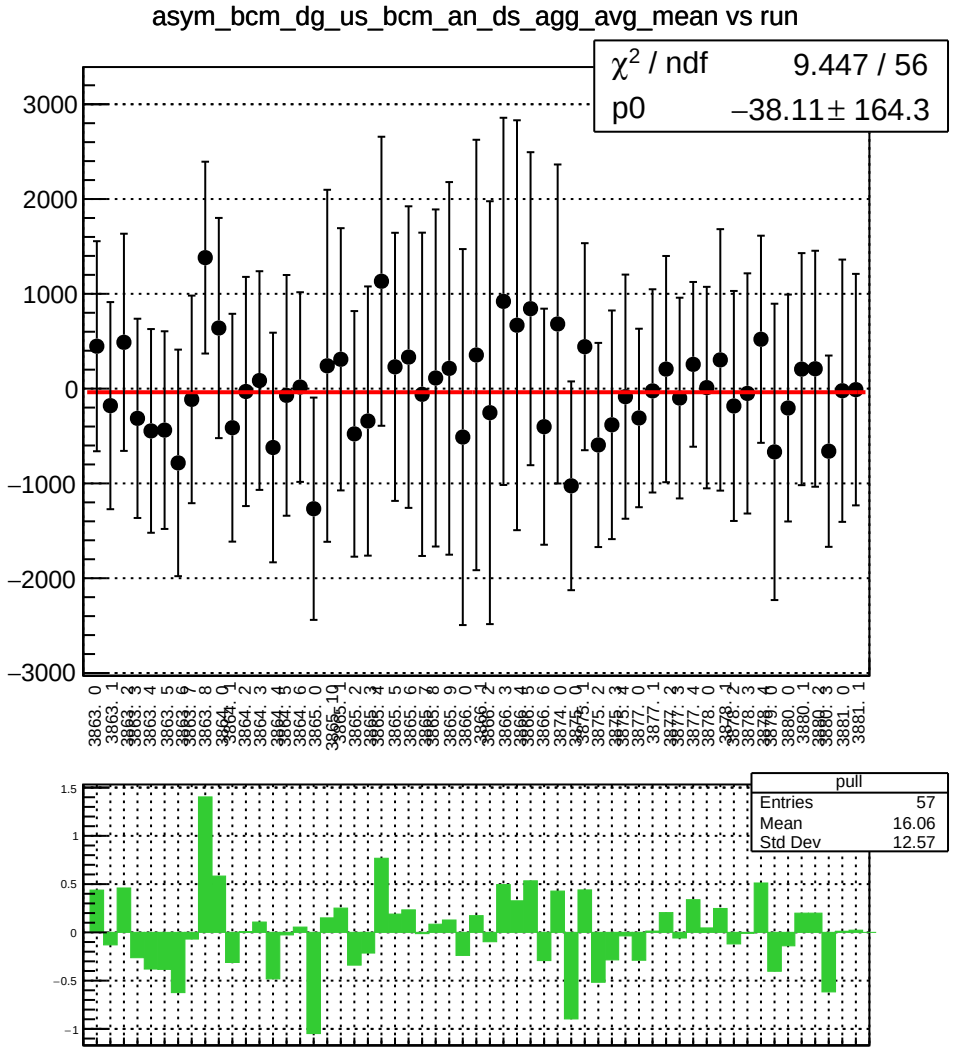

pull1D
Entries 57
Mean 0.008274
Std Dev 0.3995

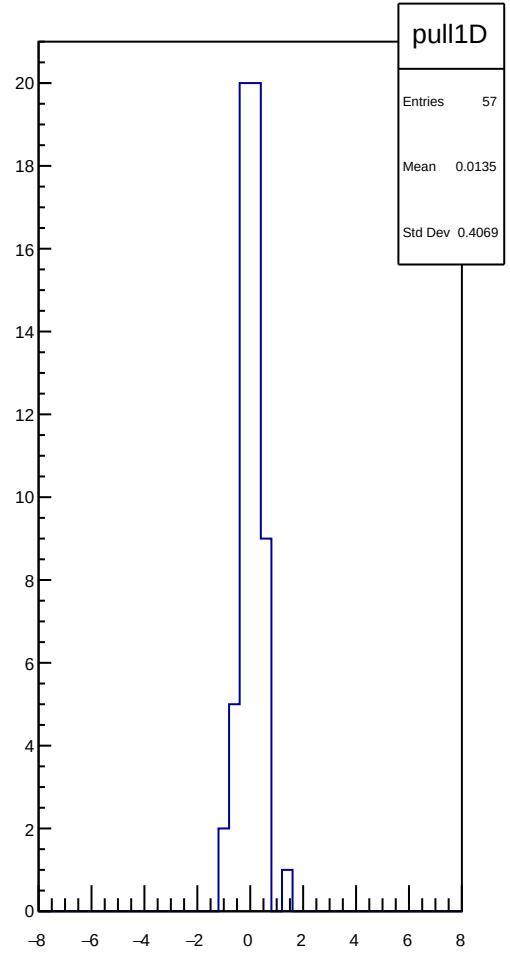

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.547e+04 / 56
p0 116.9 ± 0.114
220
200
180
160
140
120
100
80

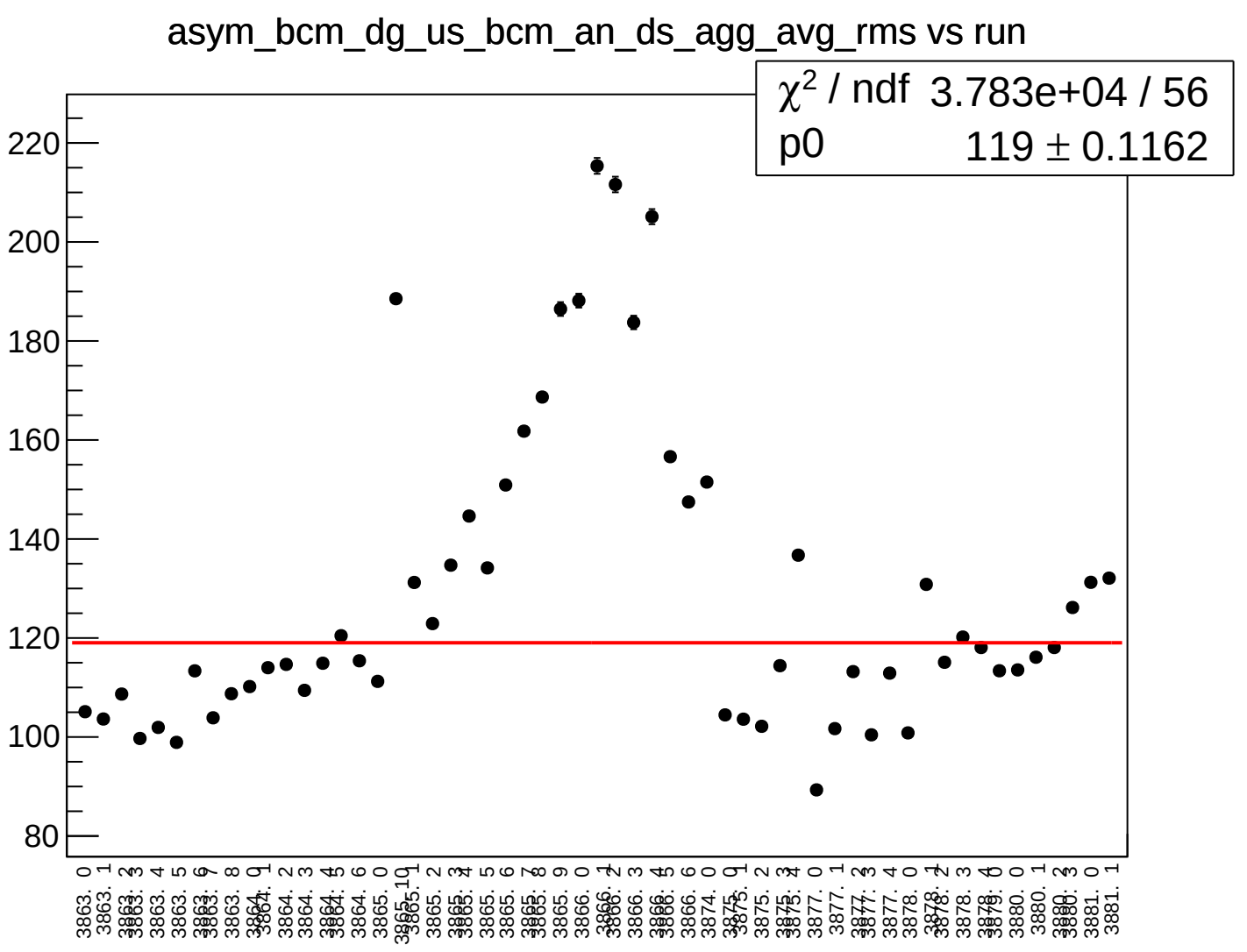

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 49.65 / 56
p0 −4.561 ± 25.51
pull
Entries 57
Mean −27.96
Std Dev 39.56

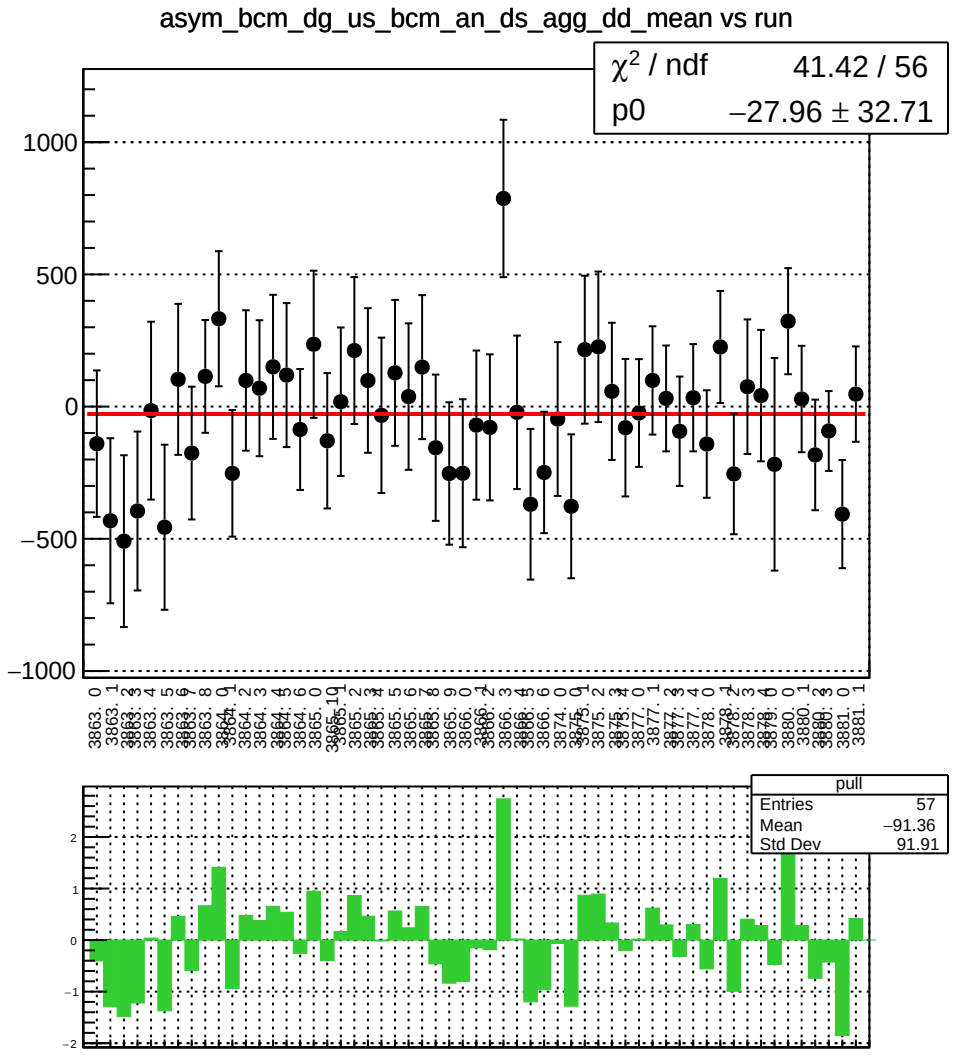

pull1D
Entries 57
Mean −0.01712
Std Dev 0.9332

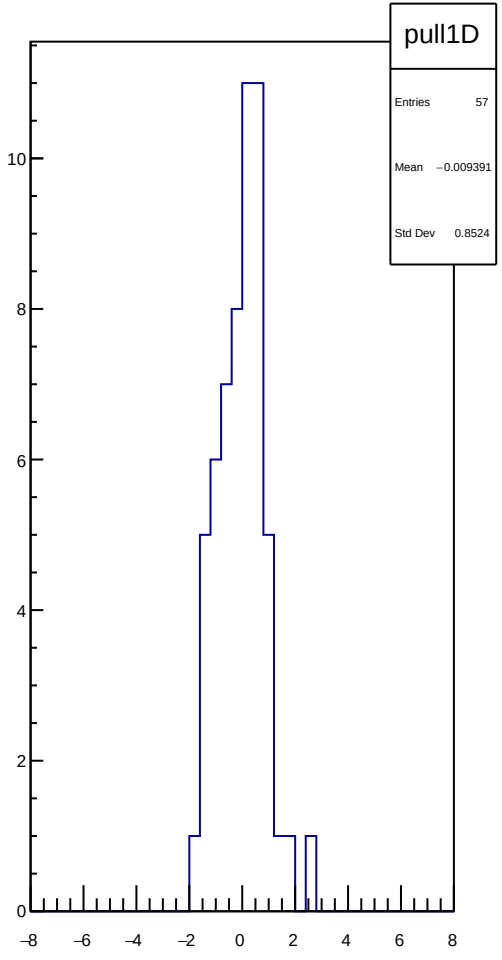

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3.523e+04 / 56
p0 18.5 ± 0.01804
32
30
28
26
24
22
20
18
16
14

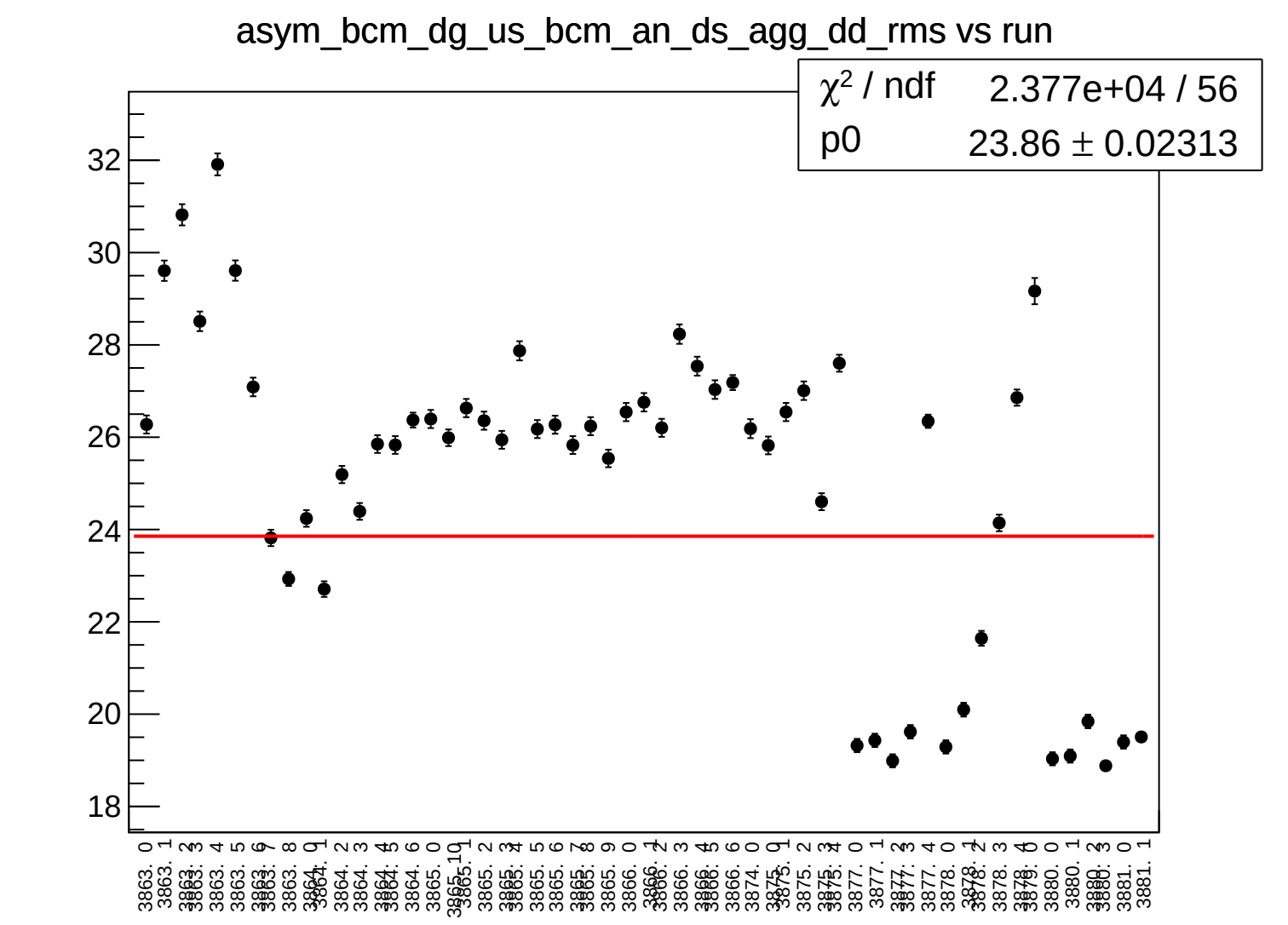

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 9.447 / 56
p0 −38.11± 164.3
pull
Entries 57
Mean 16.06
Std Dev 12.57

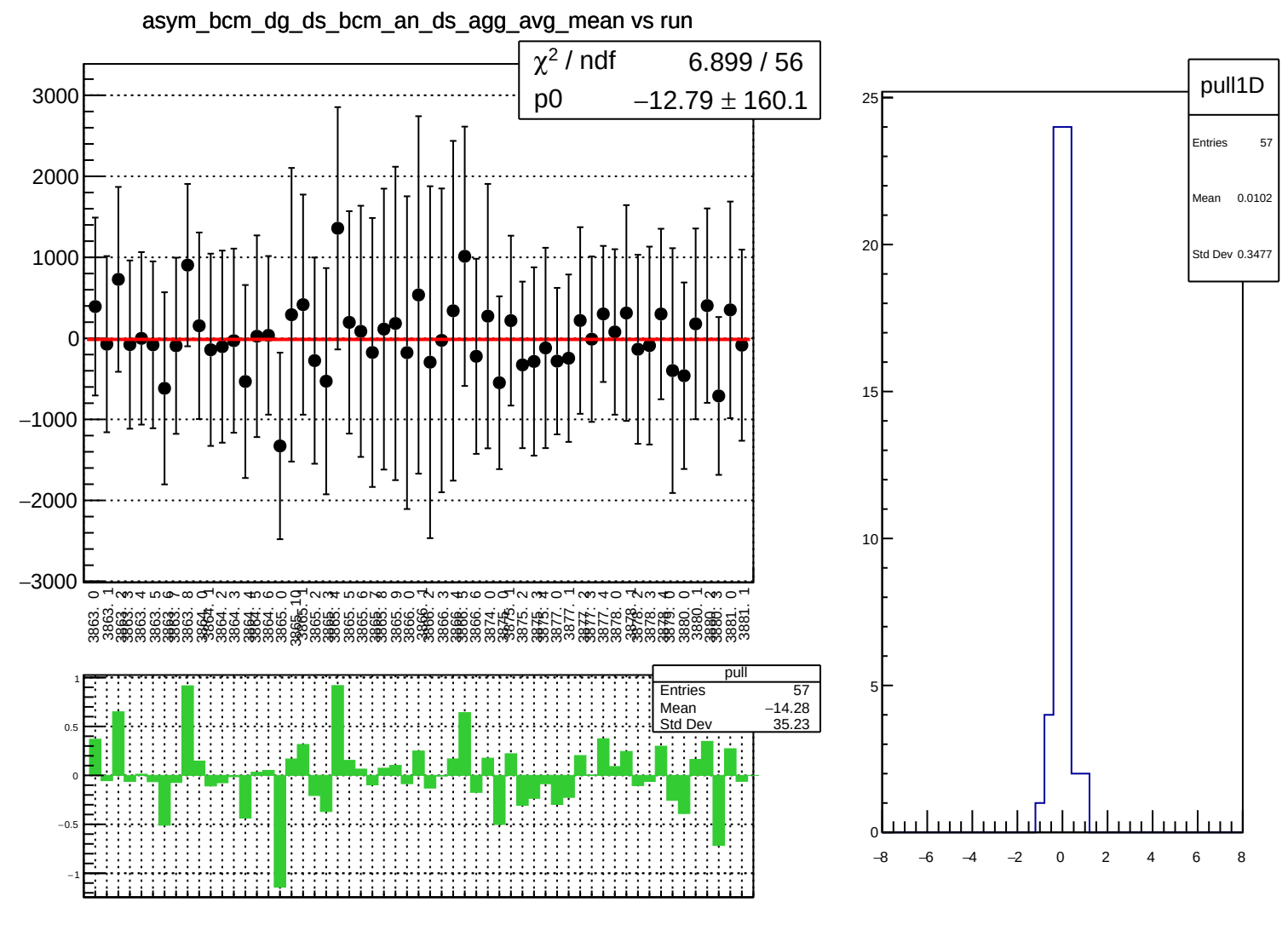

pull1D
Entries 57
Mean 0.0135
Std Dev 0.4069

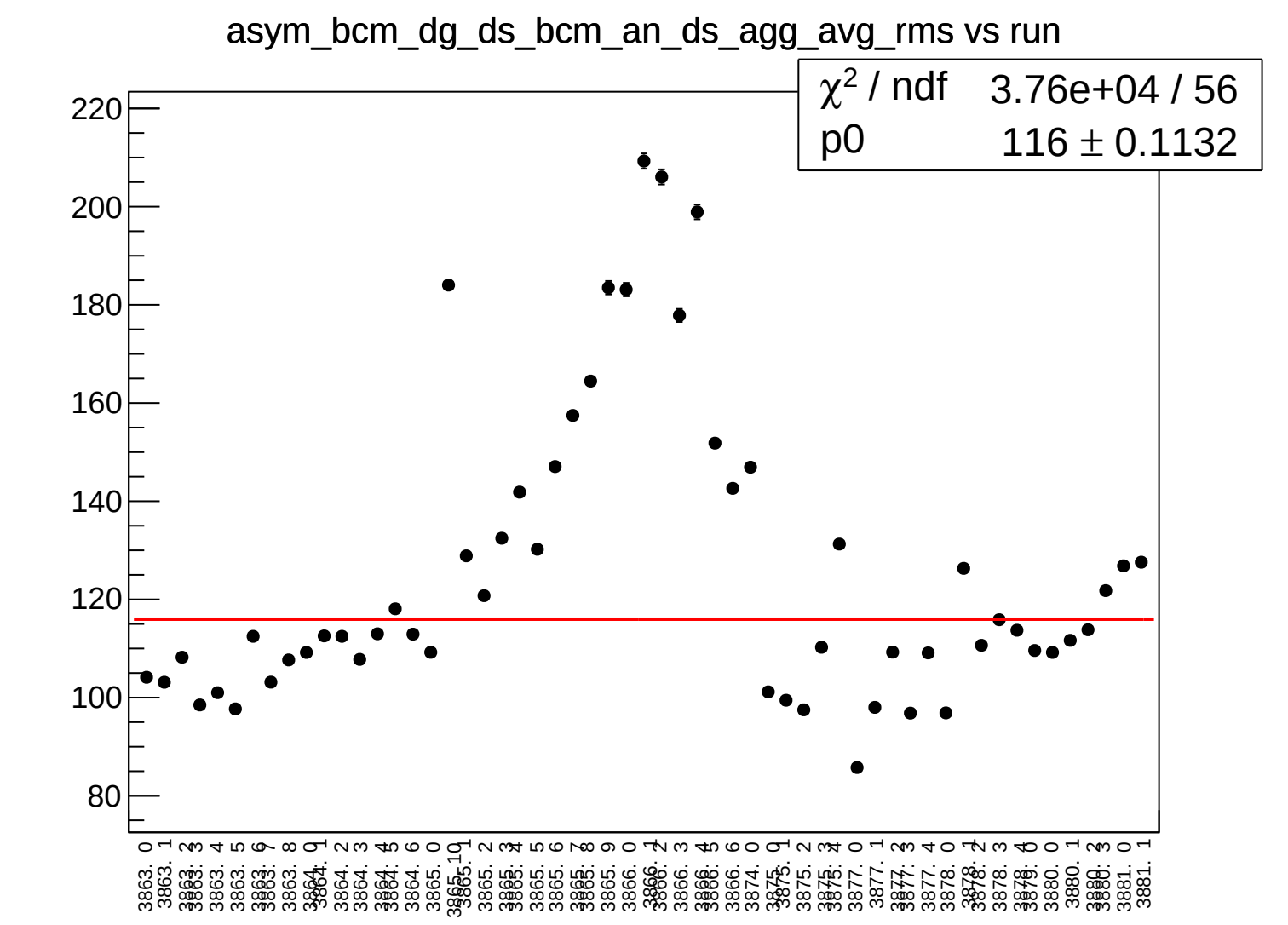

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.783e+04 / 56
p0 119 ± 0.1162
220
200
180
160
140
120
100
80
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1


asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 41.42 / 56
p0 −27.96 ± 32.71
pull
Entries 57
Mean −91.36
Std Dev 91.91

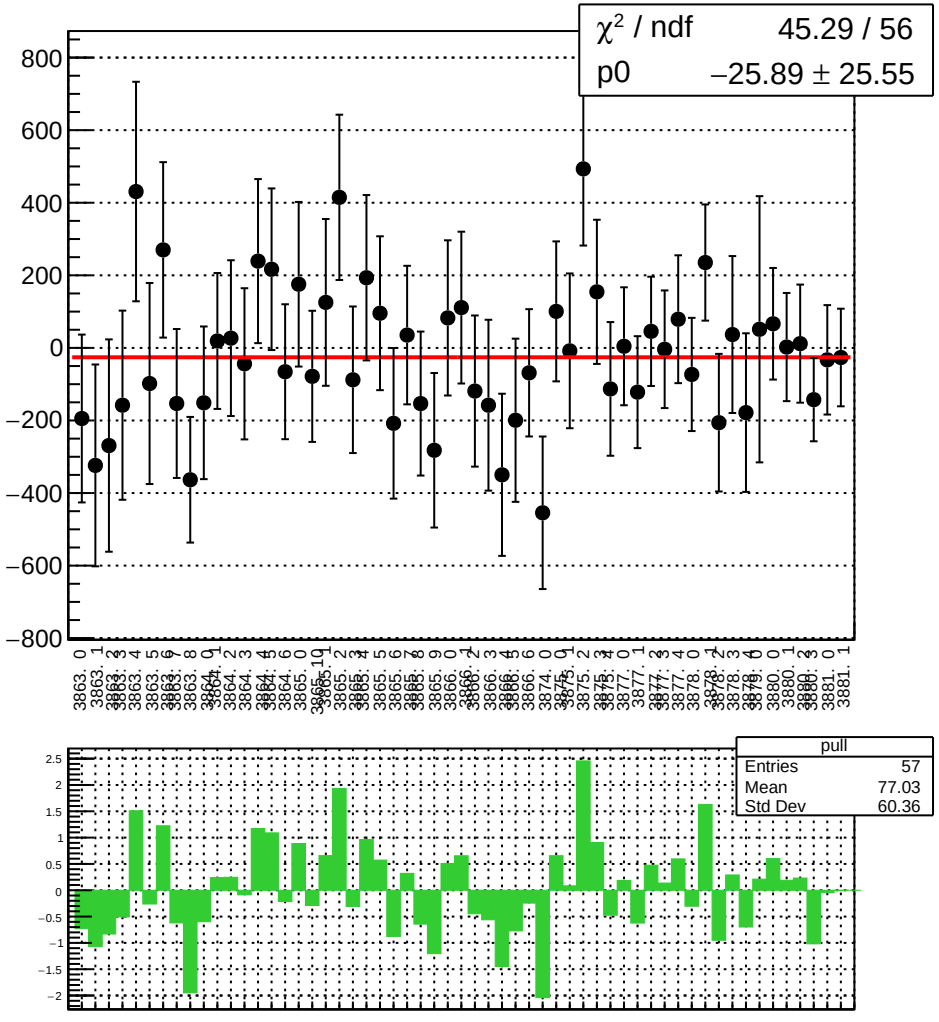

pull1D
Entries 57
Mean −0.009391
Std Dev 0.8524

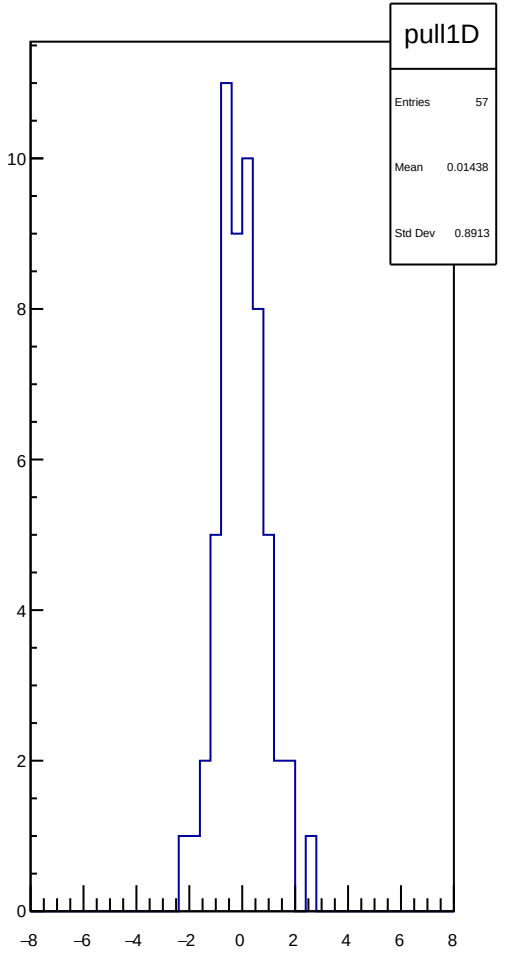

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.377e+04 / 56
p0 23.86 ± 0.02313
32
30
28
26
24
22
20
18
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

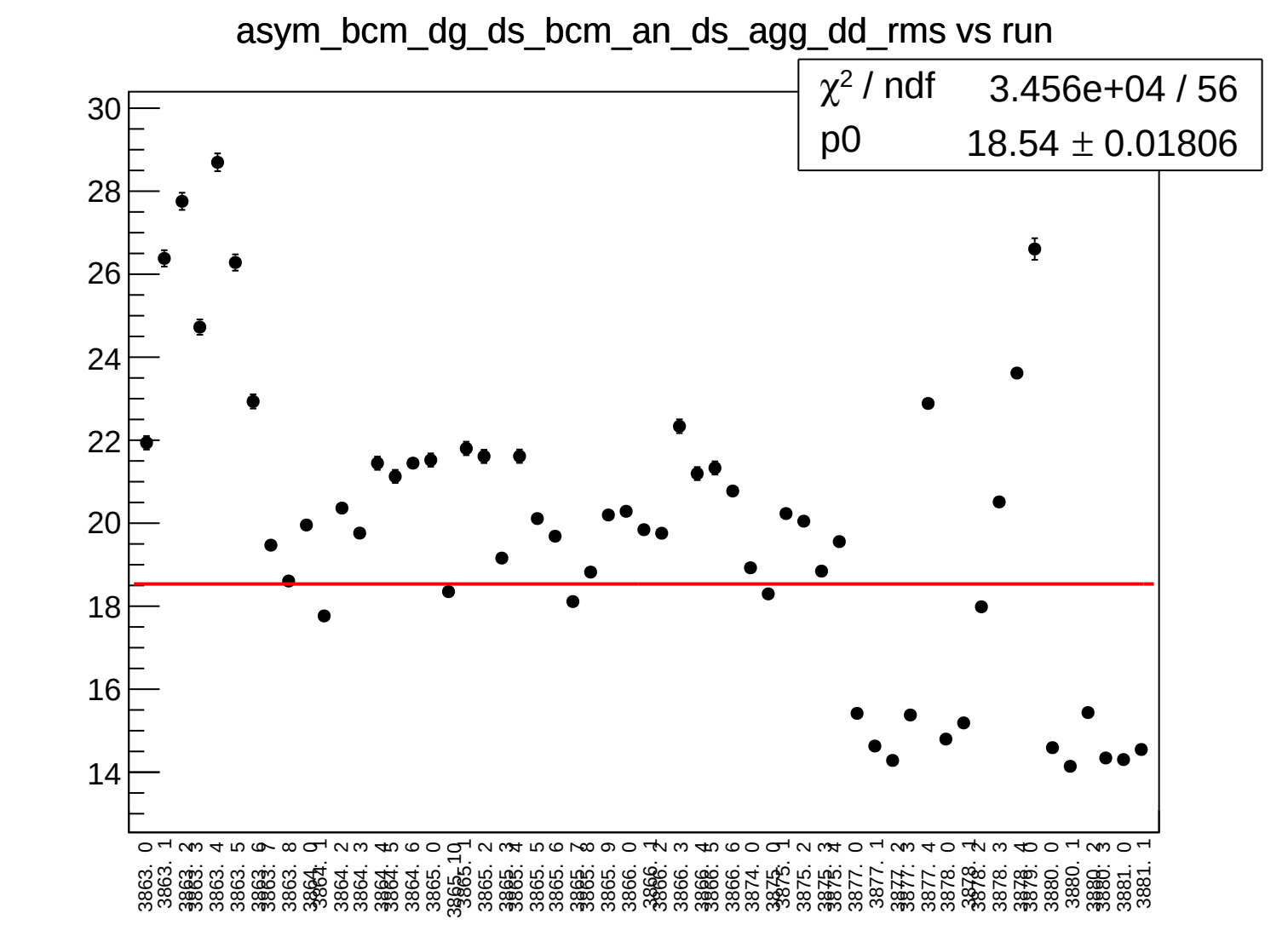

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 6.899 / 56
p0 −12.79 ± 160.1
pull
Entries 57
Mean −14.28
Std Dev 35.23
pull1D
Entries 57
Mean 0.0102
Std Dev 0.3477

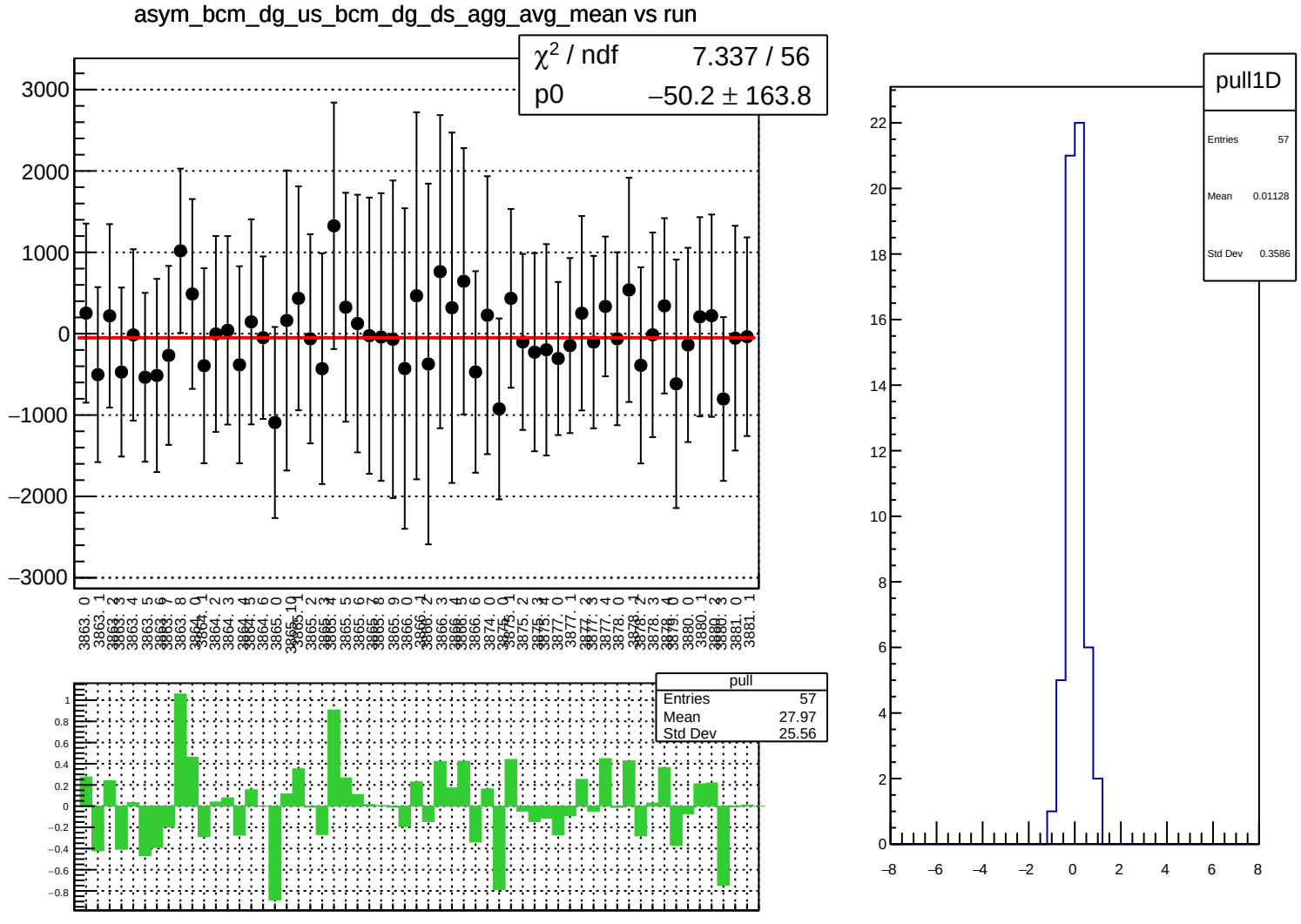

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.76e+04 / 56
p0 116 ± 0.1132
220
200
180
160
140
120
100
80

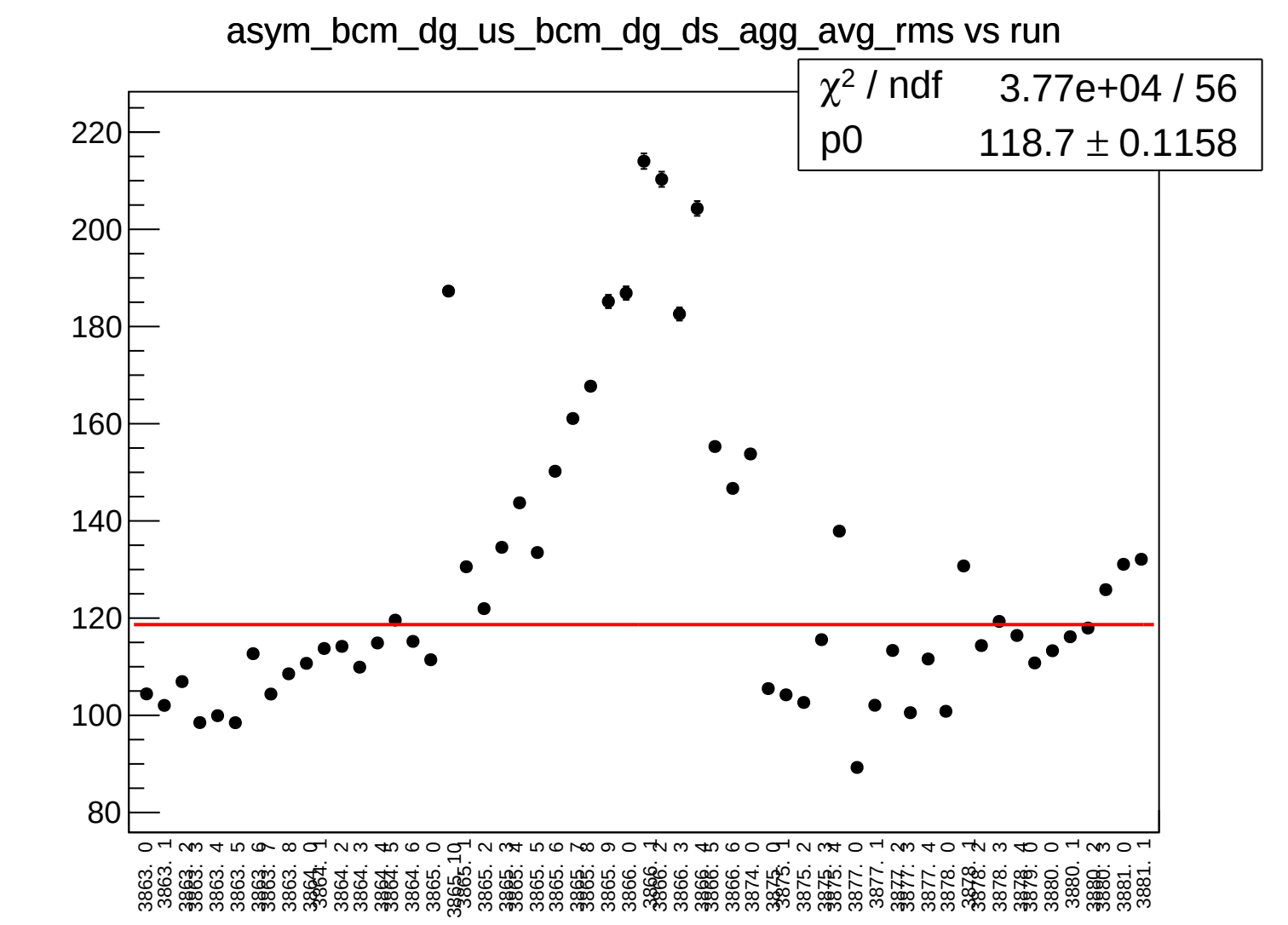
asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run

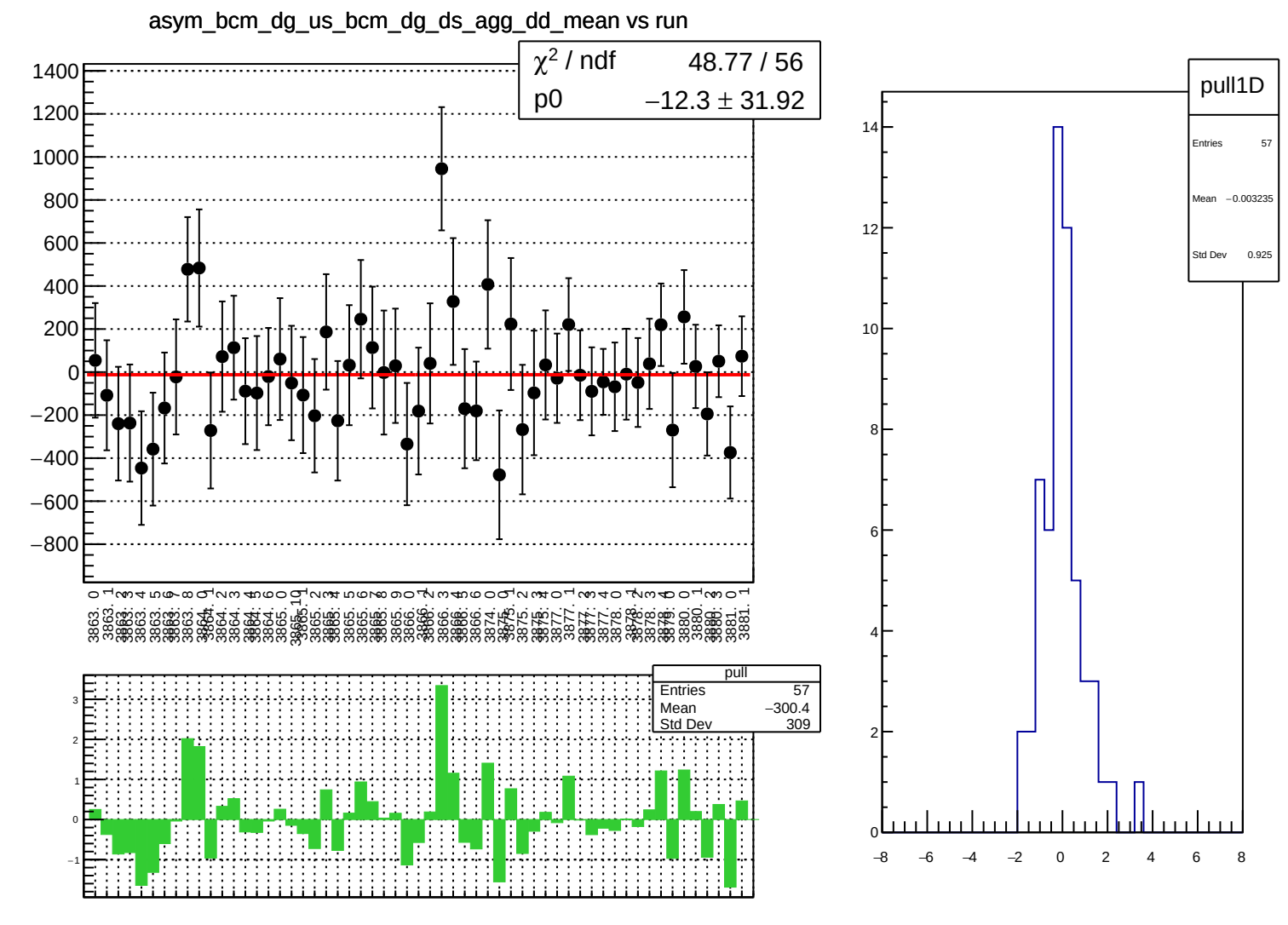


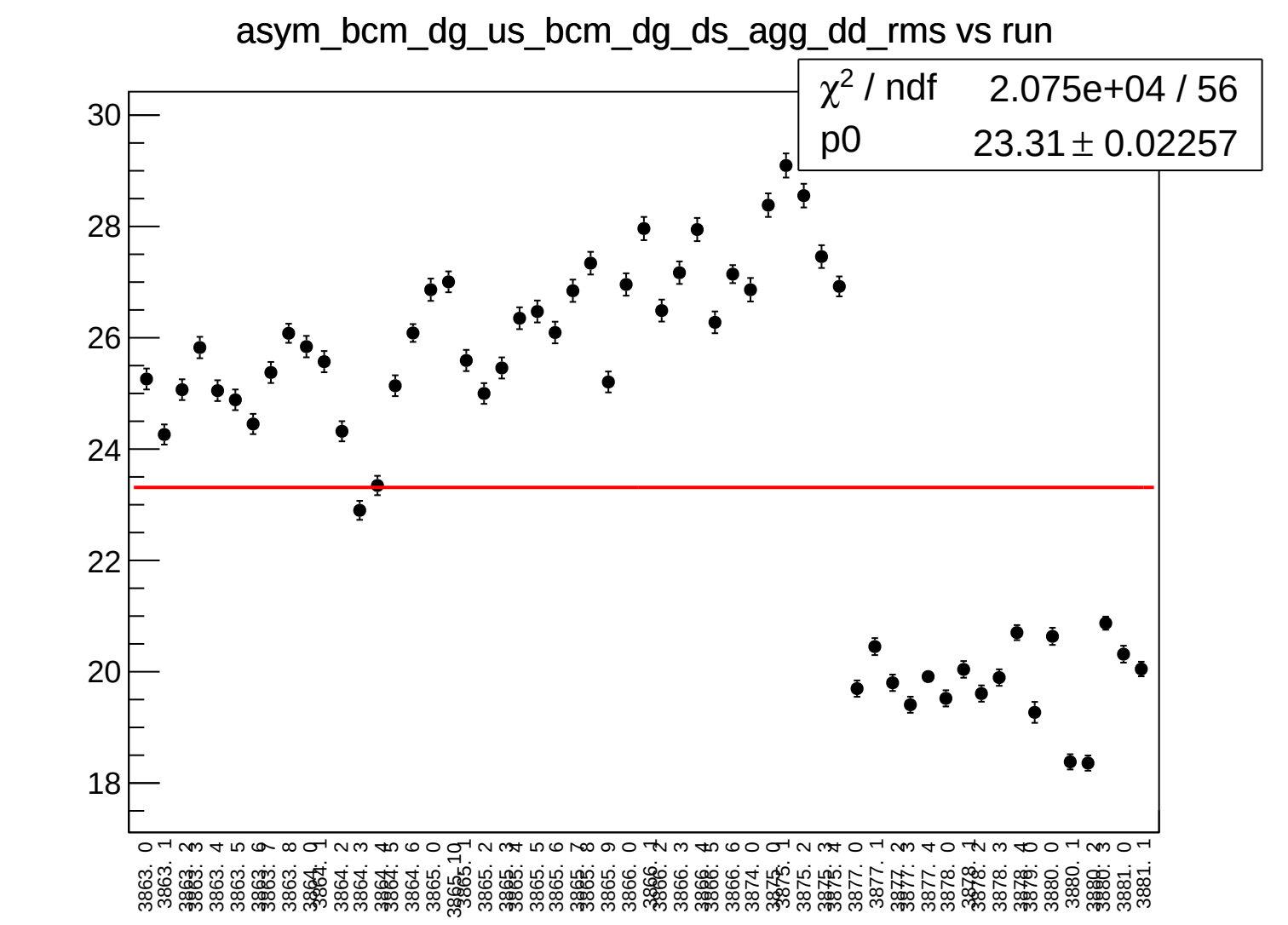


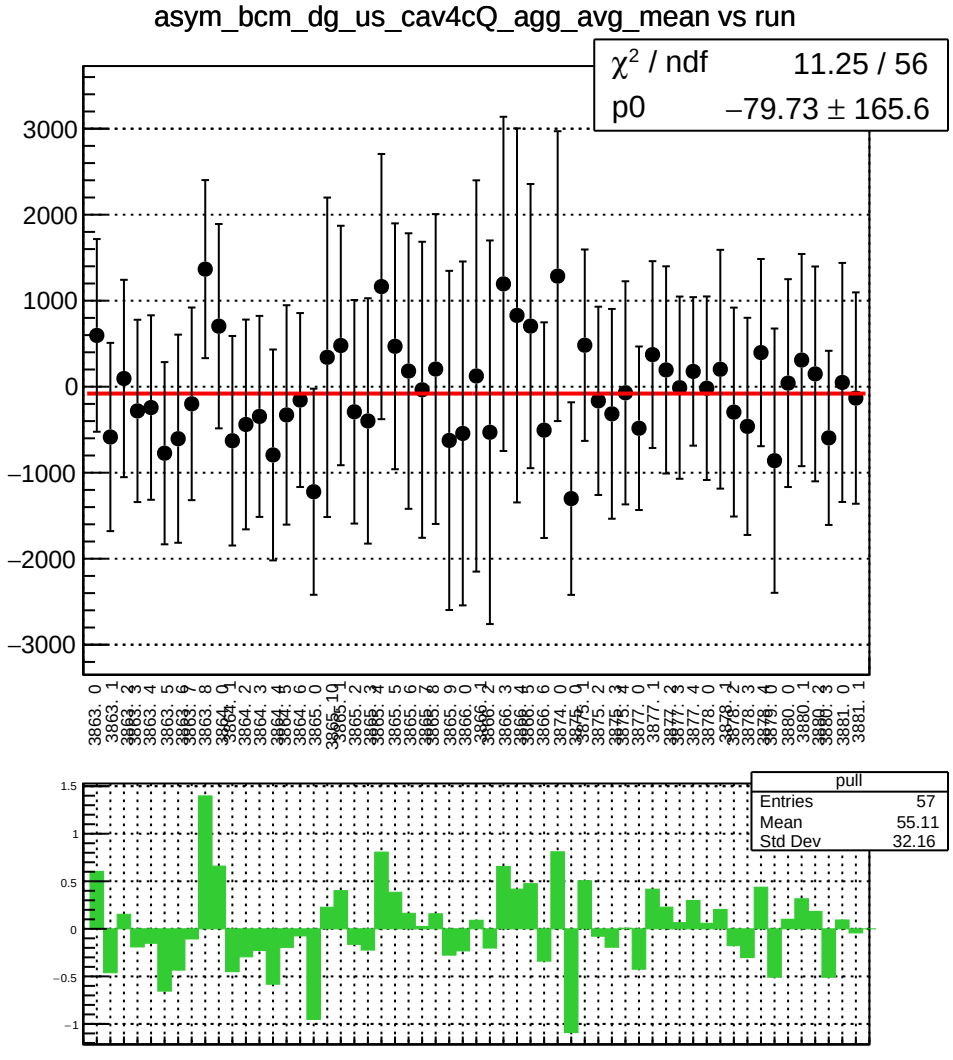

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3.456e+04 / 56
p0 18.54 ± 0.01806
30
28
26
24
22
20
18
16
14

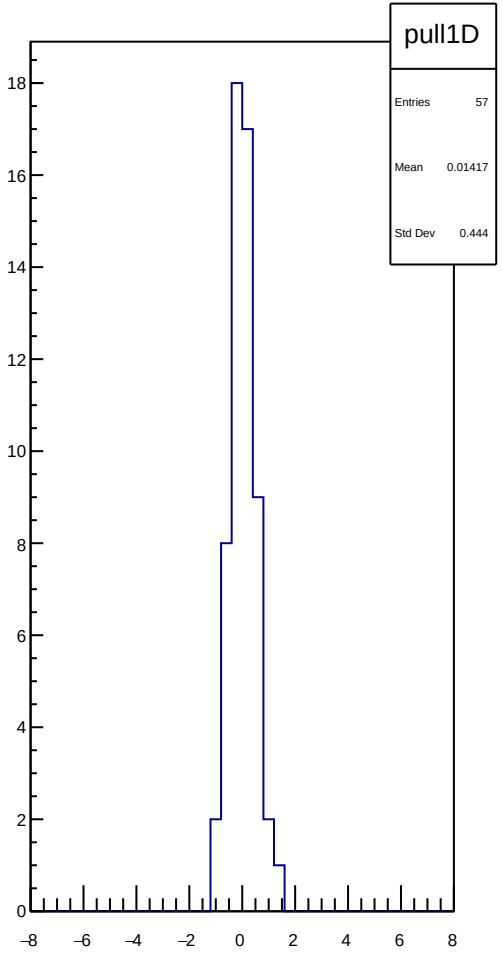

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 7.337 / 56
p0 −50.2 ± 163.8
pull
Entries 57
Mean 27.97
Std Dev 25.56
pull1D
Entries 57
Mean 0.01128
Std Dev 0.3586

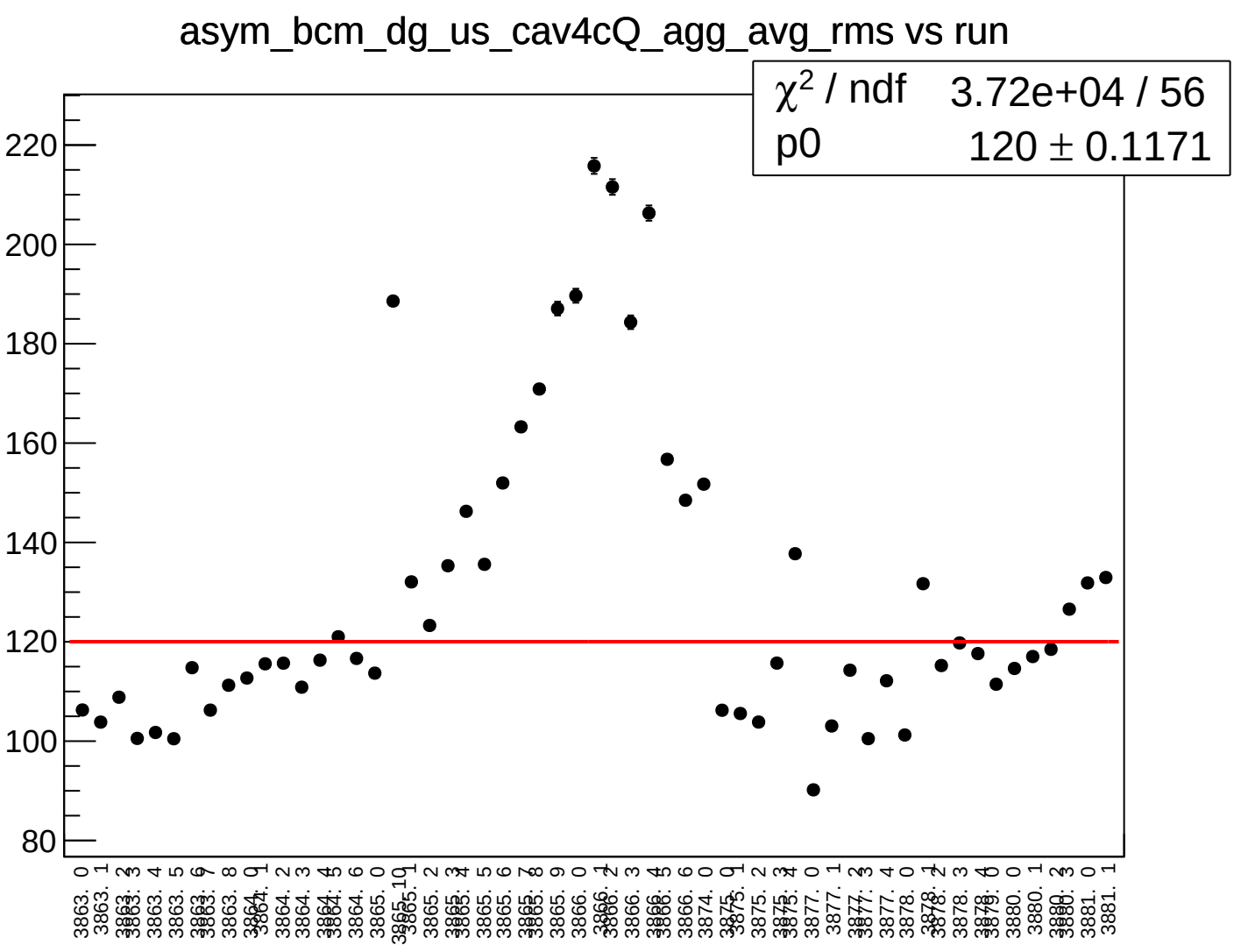

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.77e+04 / 56
p0 118.7 ± 0.1158
220
200
180
160
140
120
100
80

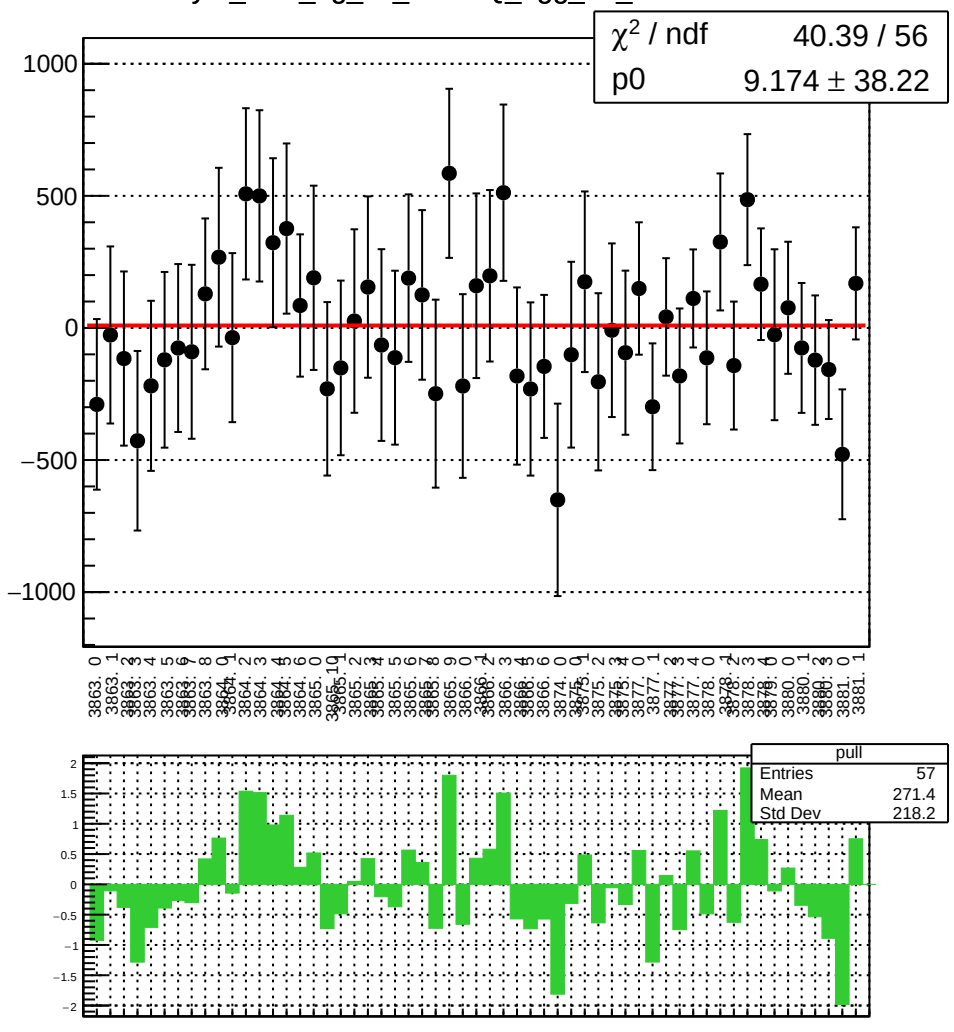

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 48.77 / 56
p0 −12.3 ± 31.92
pull
Entries 57
Mean −300.4
Std Dev 309
pull1D
Entries 57
Mean −0.003235
Std Dev 0.925

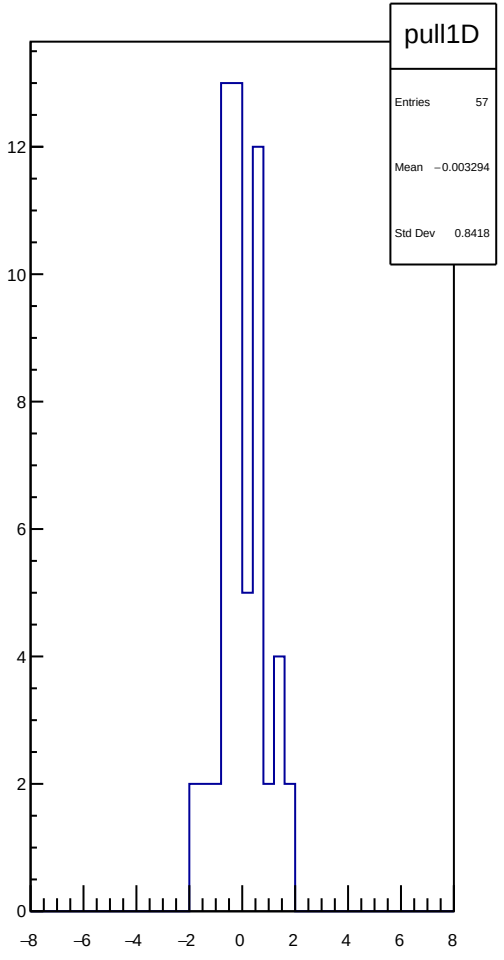

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2.075e+04 / 56
p0 23.31 ± 0.02257
30
28
26
24
22
20
18

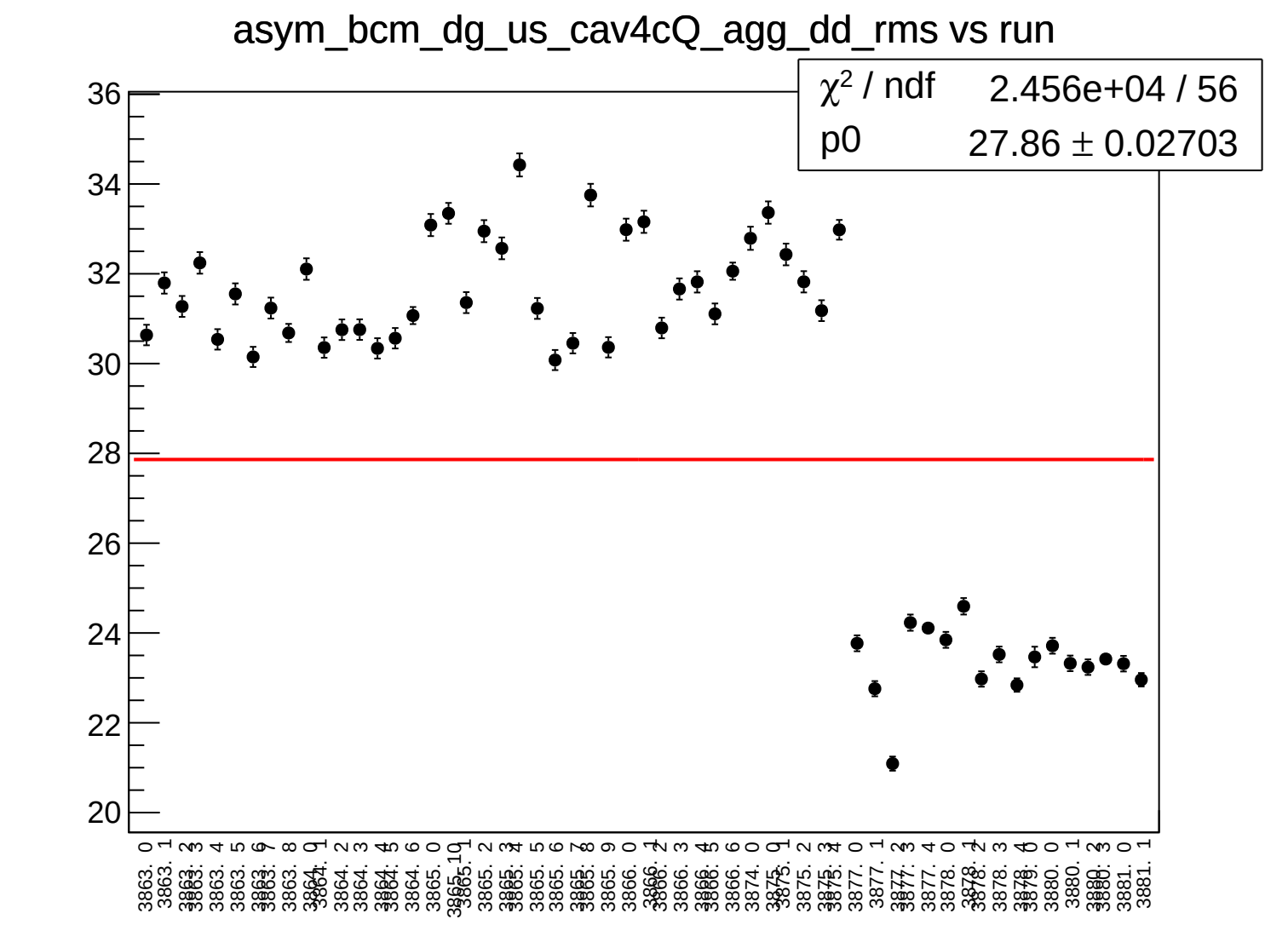

asym_bcm_dg_us_cav4cQ_agg_avg_mean vs run
χ² / ndf 11.25 / 56
p0 −79.73 ± 165.6
pull
Entries 57
Mean 55.11
Std Dev 32.16

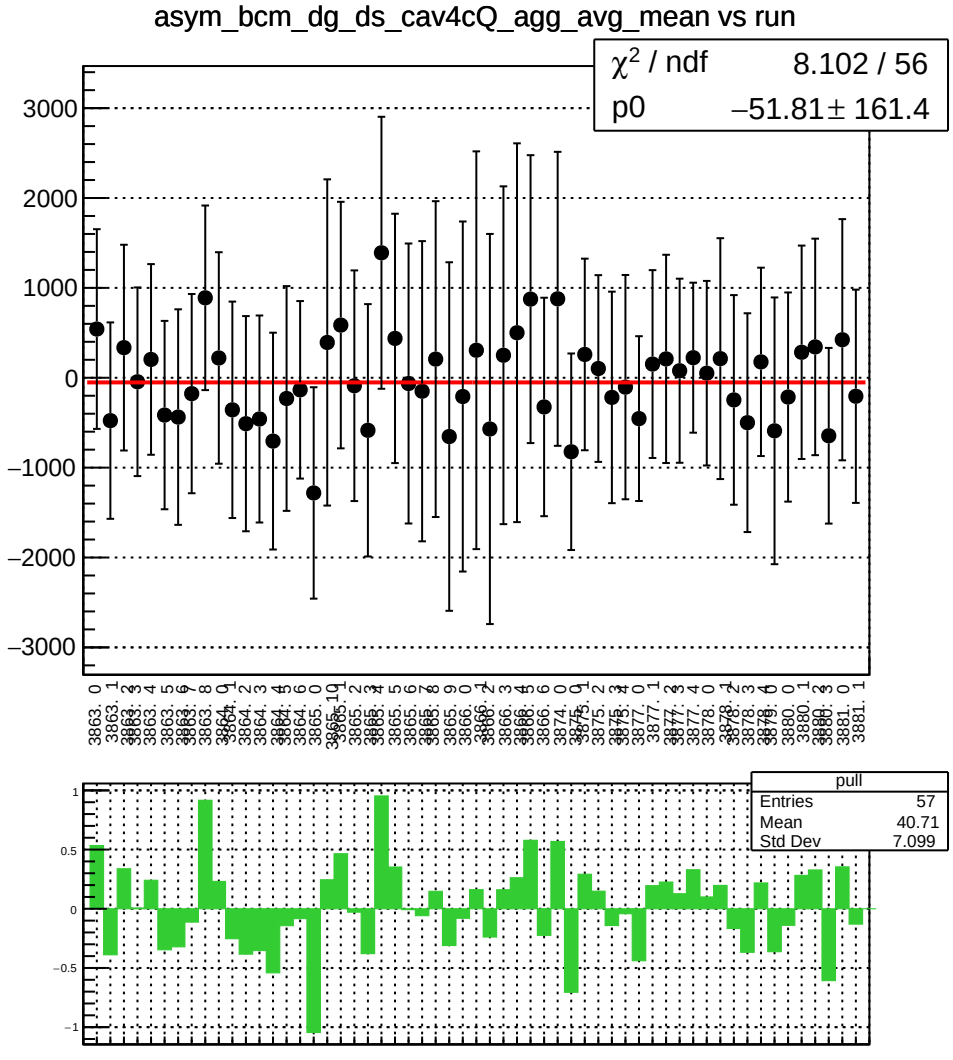

pull1D
Entries 57
Mean 0.01417
Std Dev 0.444

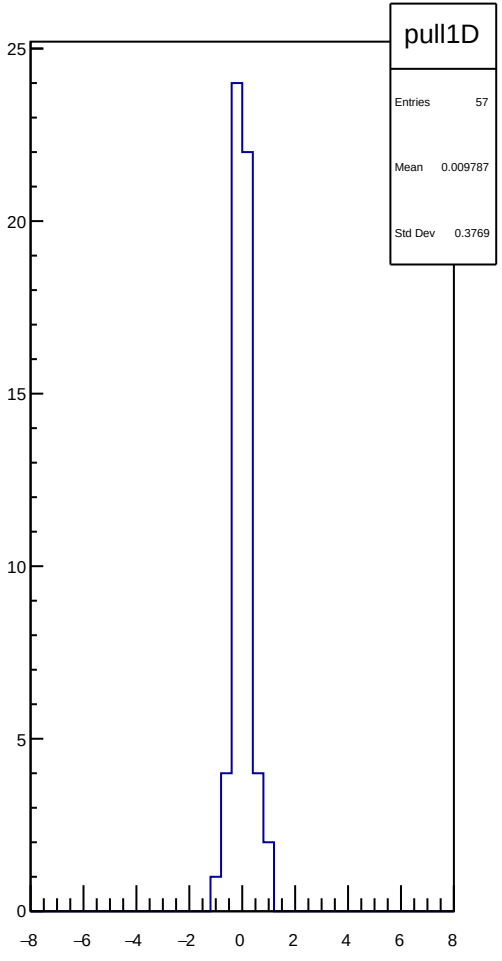

asym_bcm_dg_us_cav4cQ_agg_avg_rms vs run
χ² / ndf 3.72e+04 / 56
p0 120 ± 0.1171
220
200
180
160
140
120
100
80
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

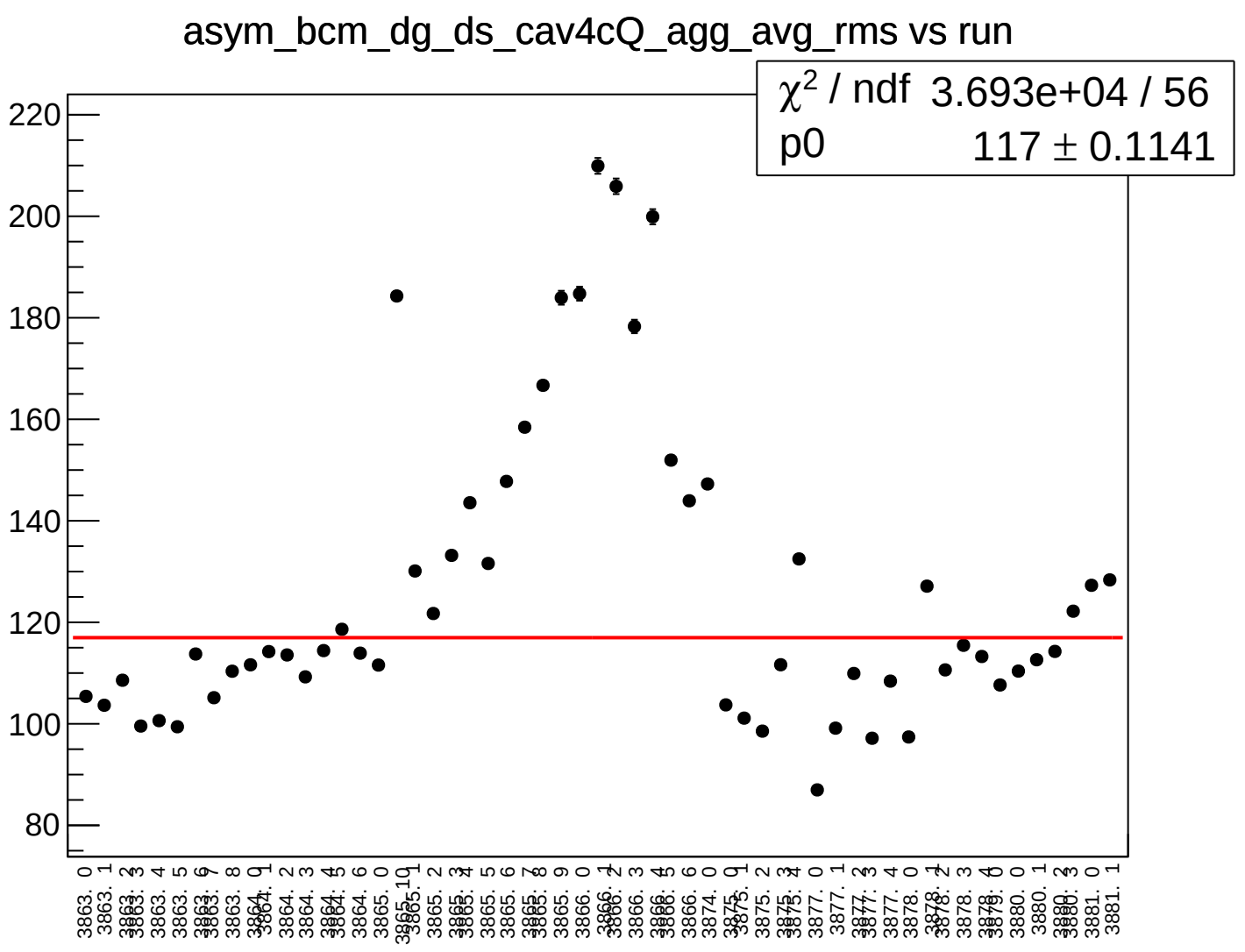

asym_bcm_dg_us_cav4cQ_agg_dd_mean vs run
χ² / ndf 40.39 / 56
p0 9.174 ± 38.22
1000
500
0
−500
−1000
pull
Entries 57
Mean 271.4
Std Dev 218.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

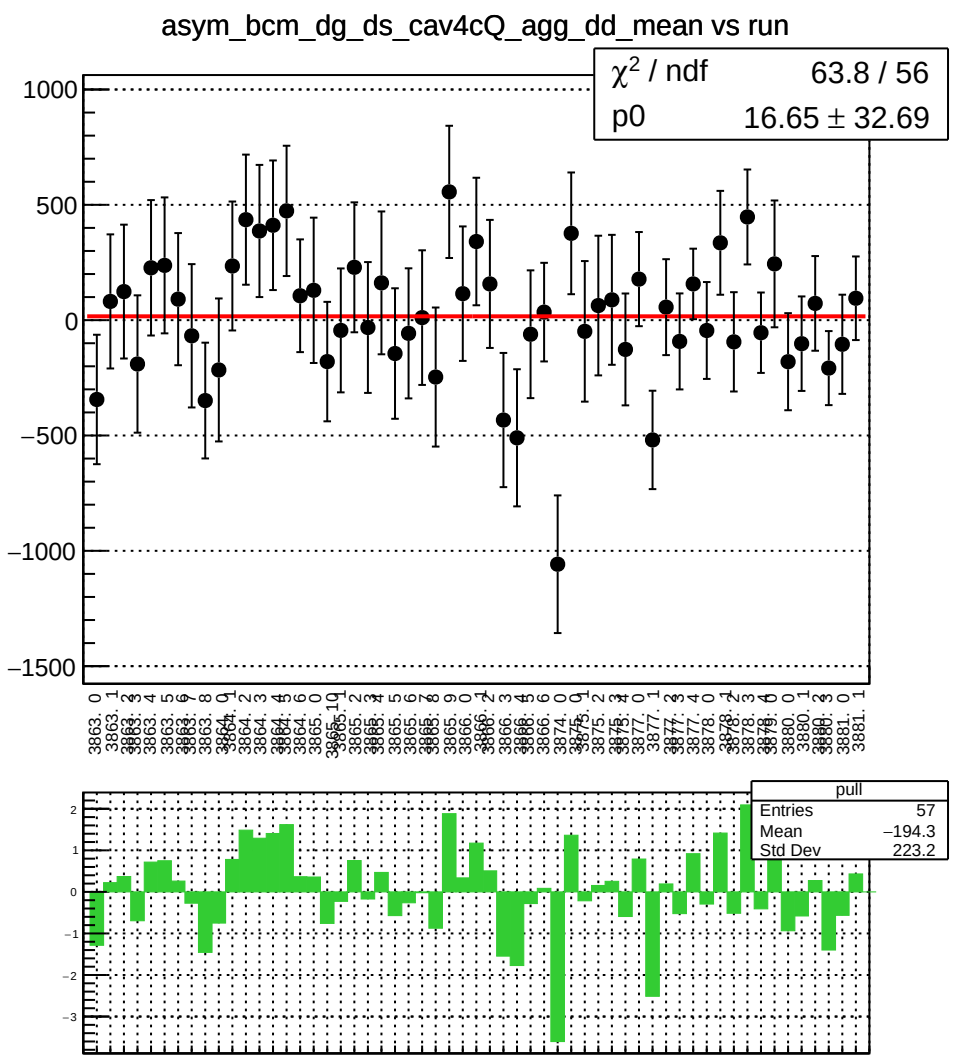

pull1D
Entries 57
Mean −0.003294
Std Dev 0.8418
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

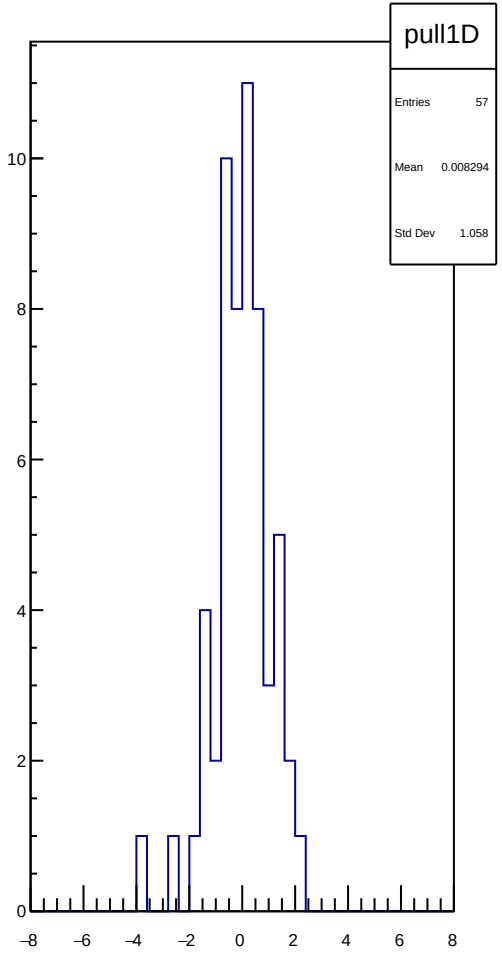

asym_bcm_dg_us_cav4cQ_agg_dd_rms vs run
χ² / ndf 2.456e+04 / 56
p0 27.86 ± 0.02703
36
34
32
30
28
26
24
22
20

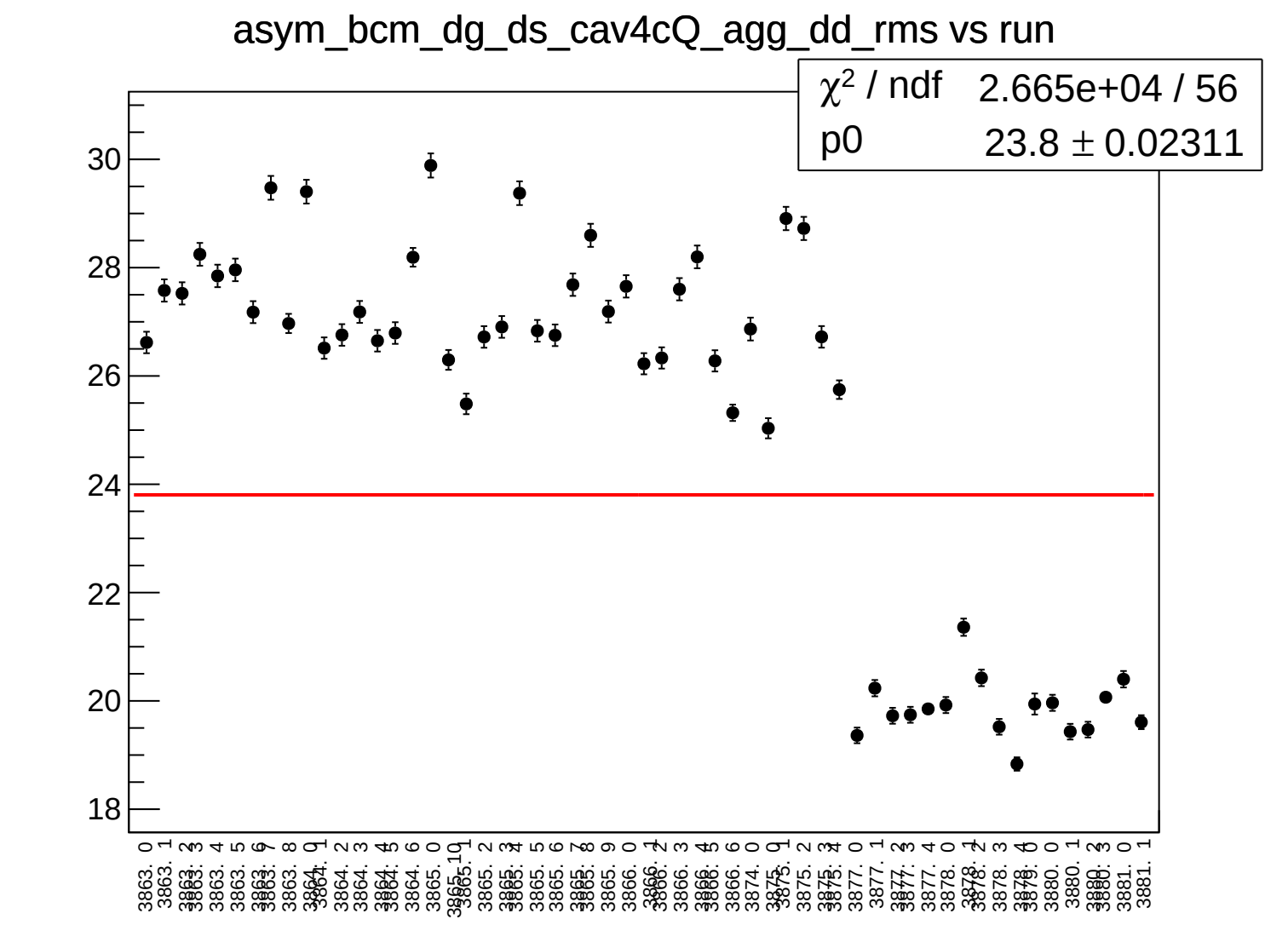

asym_bcm_dg_ds_cav4cQ_agg_avg_mean vs run
χ² / ndf 8.102 / 56
p0 −51.81 ± 161.4
pull
Entries 57
Mean 40.71
Std Dev 7.099

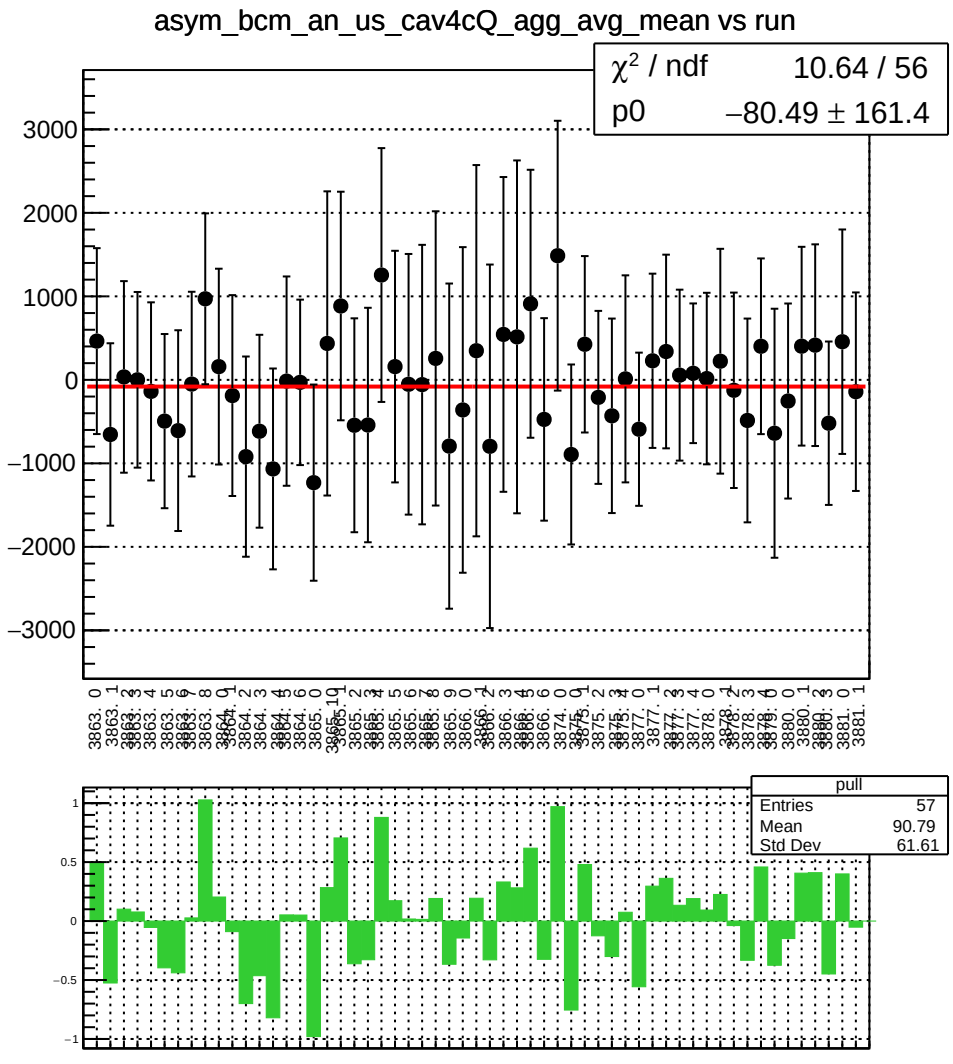

pull1D
Entries 57
Mean 0.009787
Std Dev 0.3769

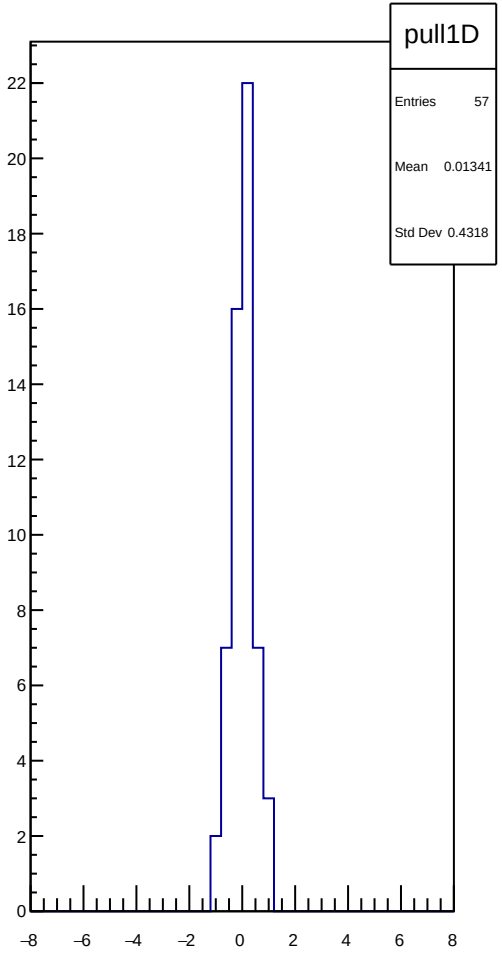

asym_bcm_dg_ds_cav4cQ_agg_avg_rms vs run
χ² / ndf 3.693e+04 / 56
p0 117 ± 0.1141
220
200
180
160
140
120
100
80

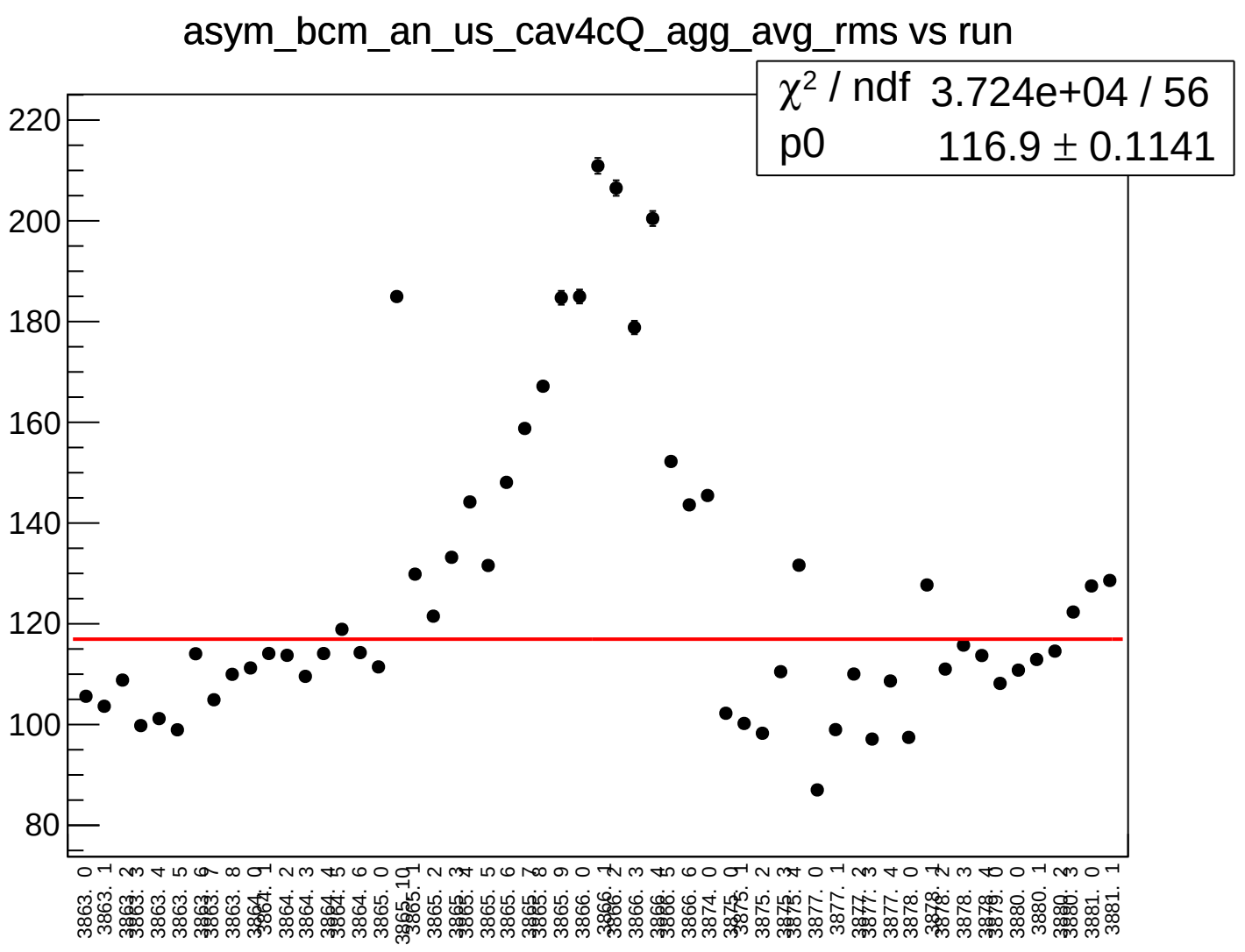

asym_bcm_dg_ds_cav4cQ_agg_dd_mean vs run
χ² / ndf 63.8 / 56
p0 16.65 ± 32.69
1000
500
0
−500
−1000
−1500
pull
Entries 57
Mean −194.3
Std Dev 223.2
2
1
0
−1
−2
−3

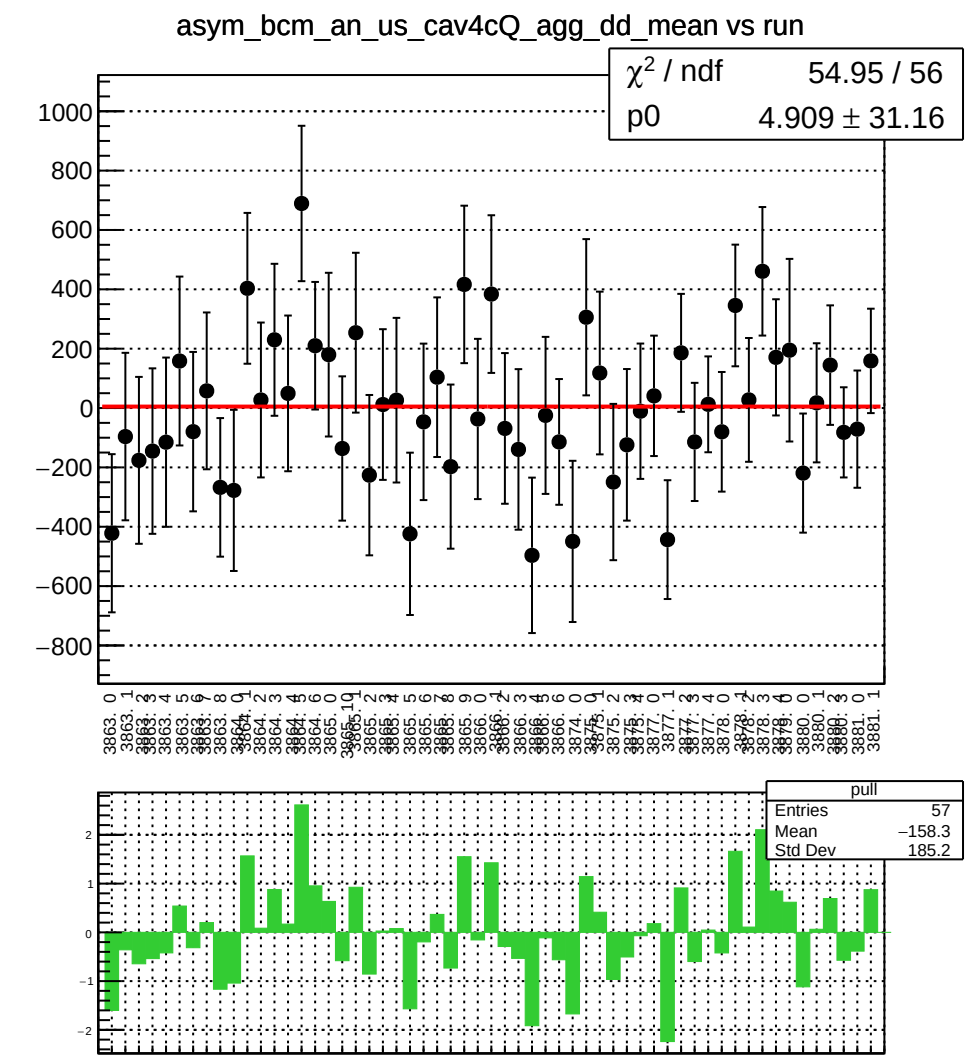

pull1D
Entries 57
Mean 0.008294
Std Dev 1.058
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

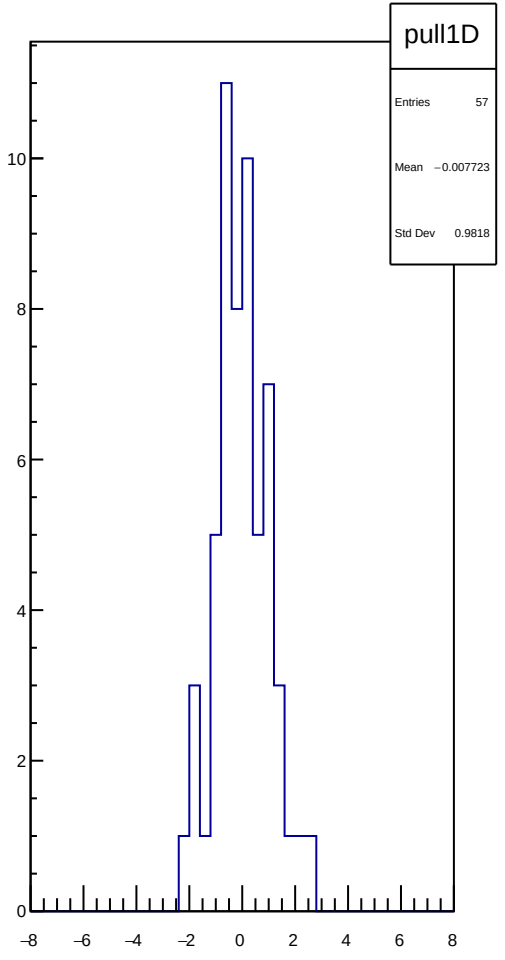

asym_bcm_dg_ds_cav4cQ_agg_dd_rms vs run
χ² / ndf 2.665e+04 / 56
p0 23.8 ± 0.02311
30
28
26
24
22
20
18

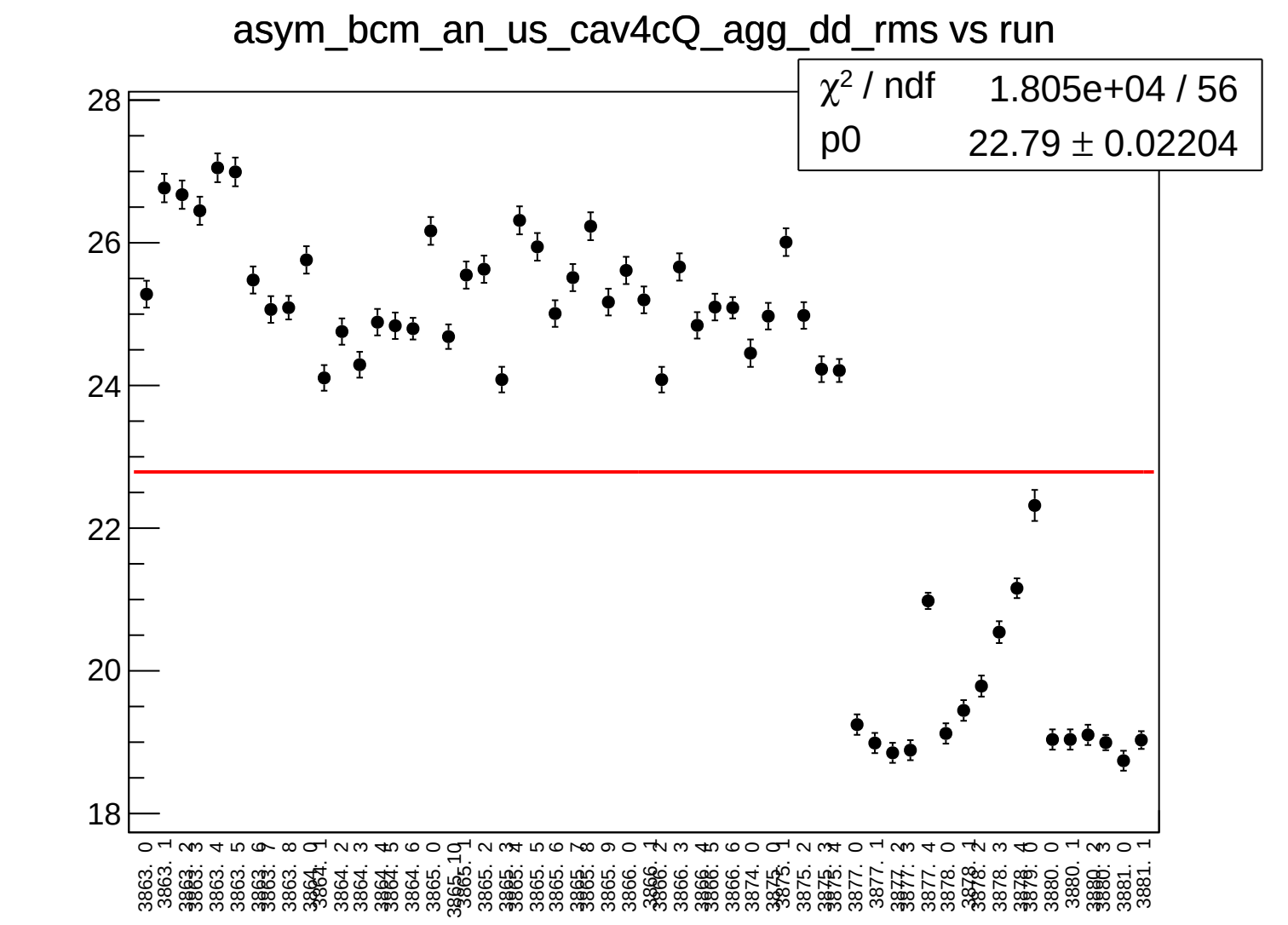

asym_bcm_an_us_cav4cQ_agg_avg_mean vs run
χ² / ndf 10.64 / 56
p0 −80.49 ± 161.4
pull
Entries 57
Mean 90.79
Std Dev 61.61

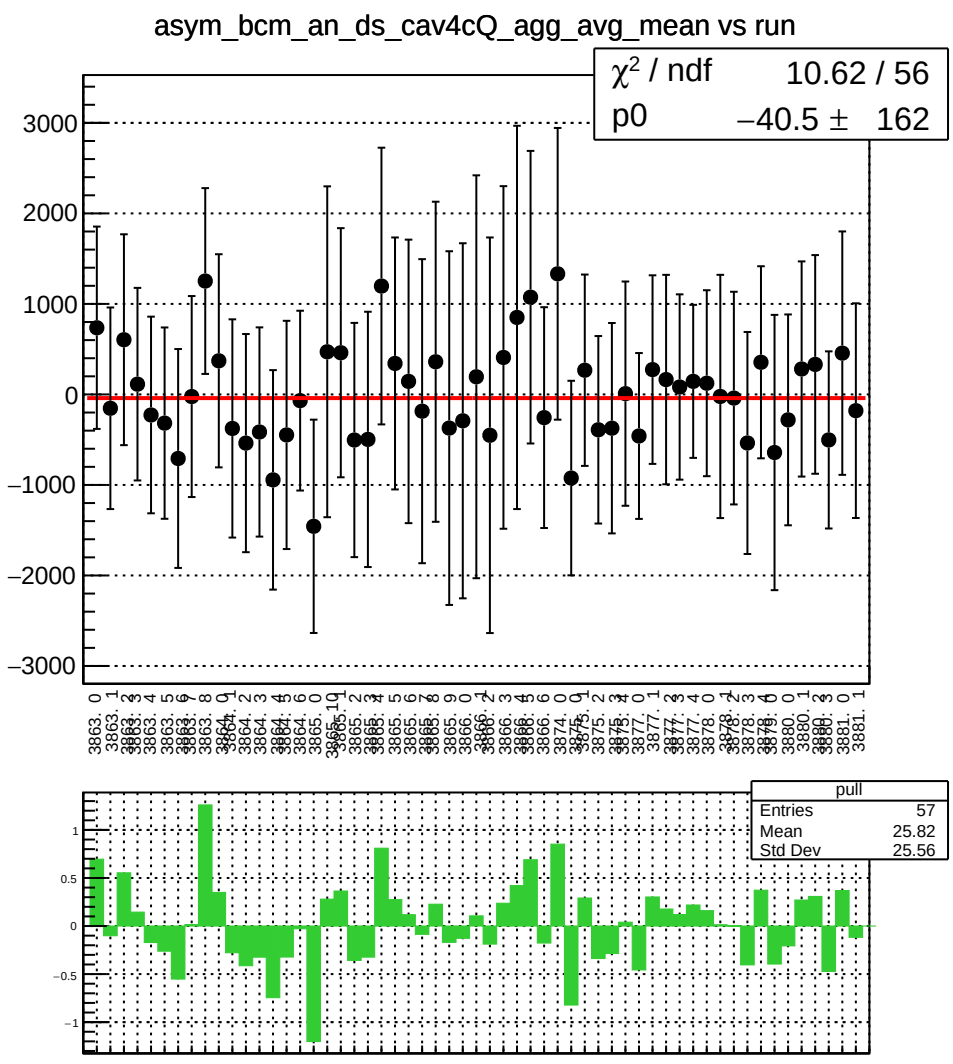

pull1D
Entries 57
Mean 0.01341
Std Dev 0.4318

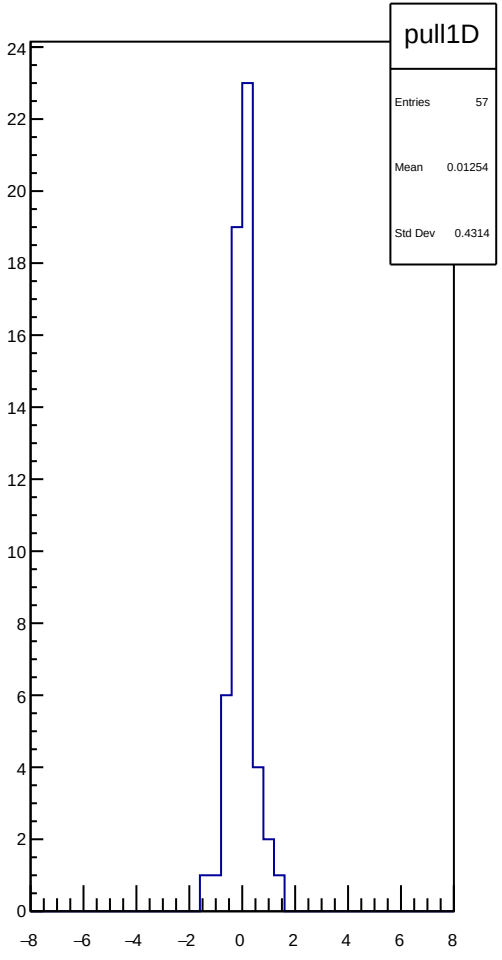

asym_bcm_an_us_cav4cQ_agg_avg_rms vs run
χ² / ndf 3.724e+04 / 56
p0 116.9 ± 0.1141
220
200
180
160
140
120
100
80

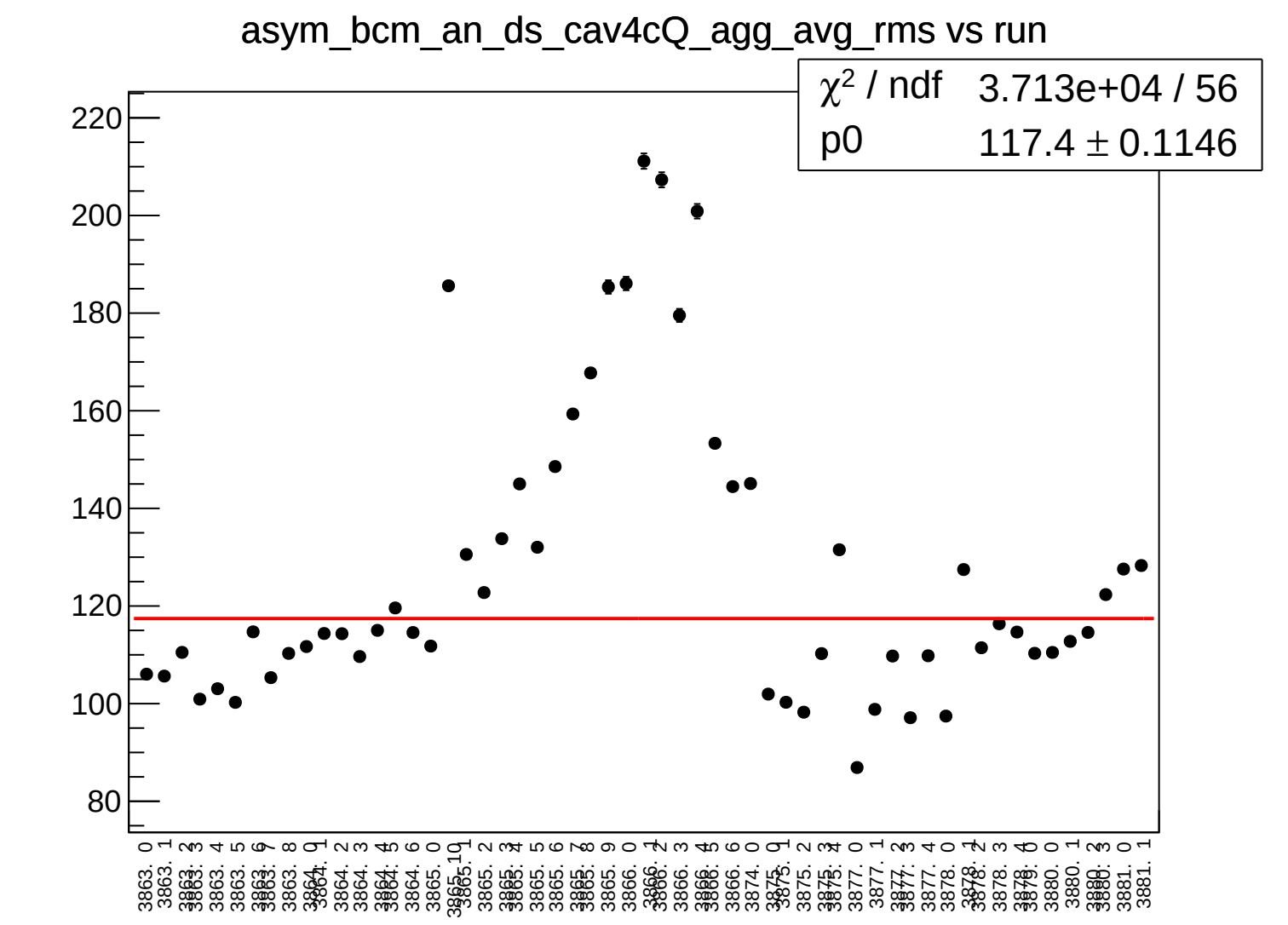

asym_bcm_an_us_cav4cQ_agg_dd_mean vs run
χ² / ndf 54.95 / 56
p0 4.909 ± 31.16
pull
Entries 57
Mean −158.3
Std Dev 185.2

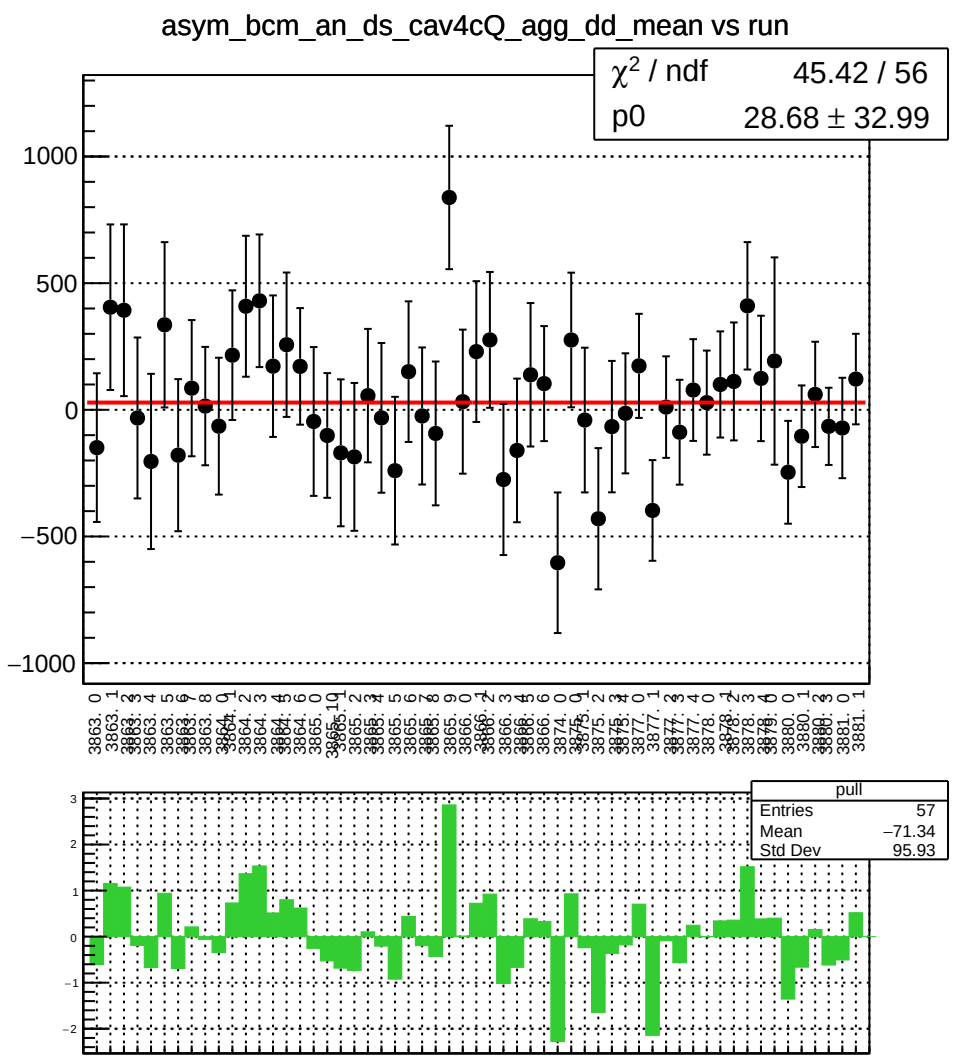

pull1D
Entries 57
Mean −0.007723
Std Dev 0.9818

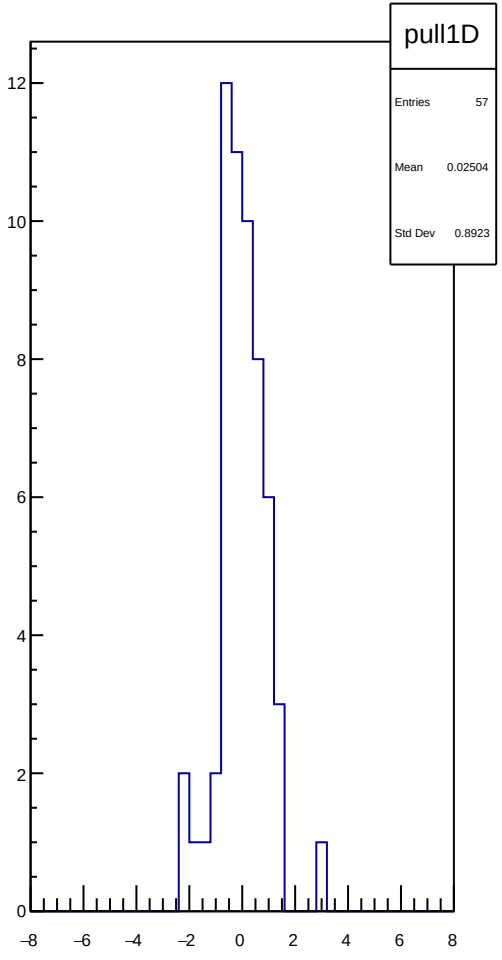

asym_bcm_an_us_cav4cQ_agg_dd_rms vs run
χ² / ndf 1.805e+04 / 56
p0 22.79 ± 0.02204
28
26
24
22
20
18

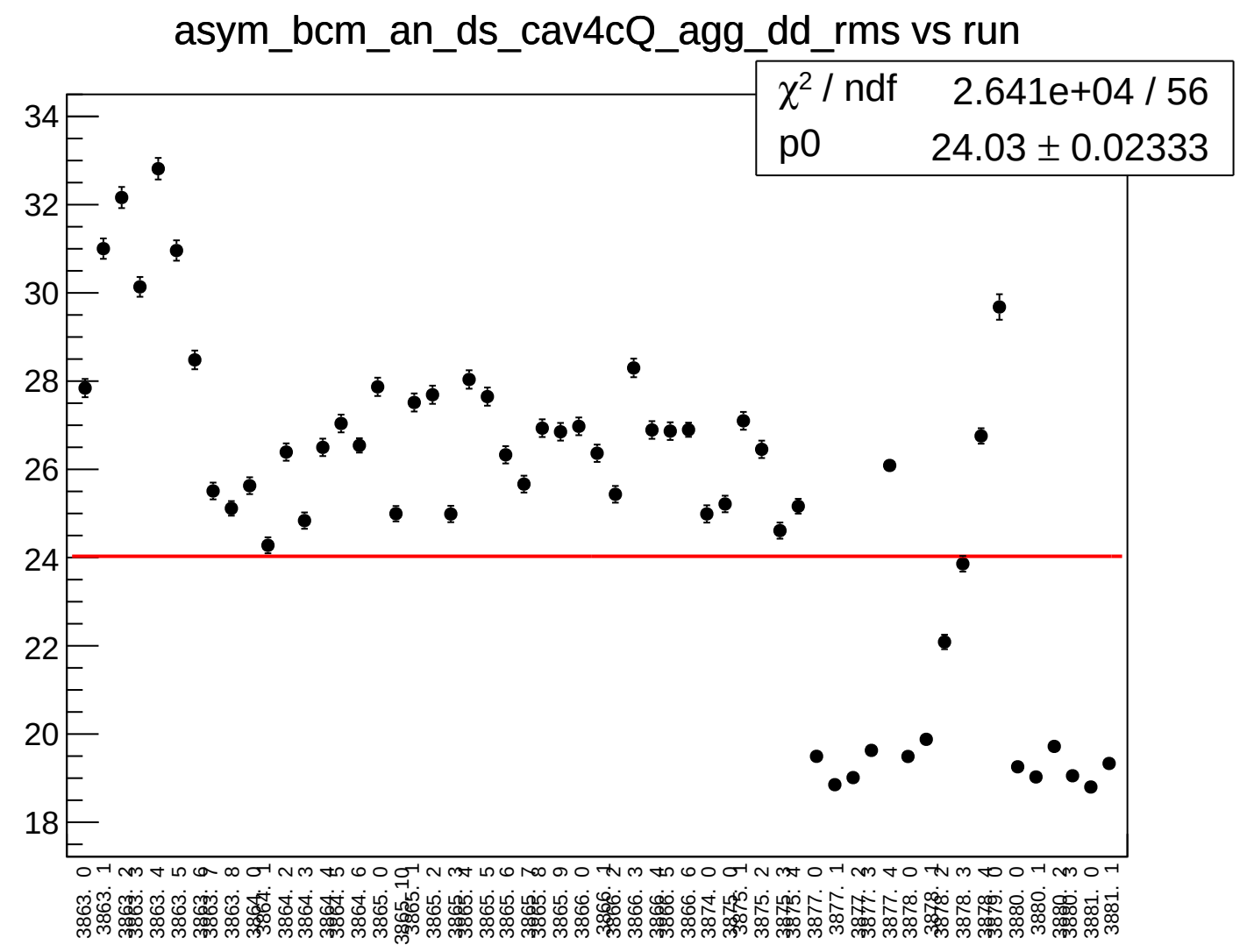

asym_bcm_an_ds_cav4cQ_agg_avg_mean vs run
χ² / ndf 10.62 / 56
p0 −40.5 ± 162
pull
Entries 57
Mean 25.82
Std Dev 25.56

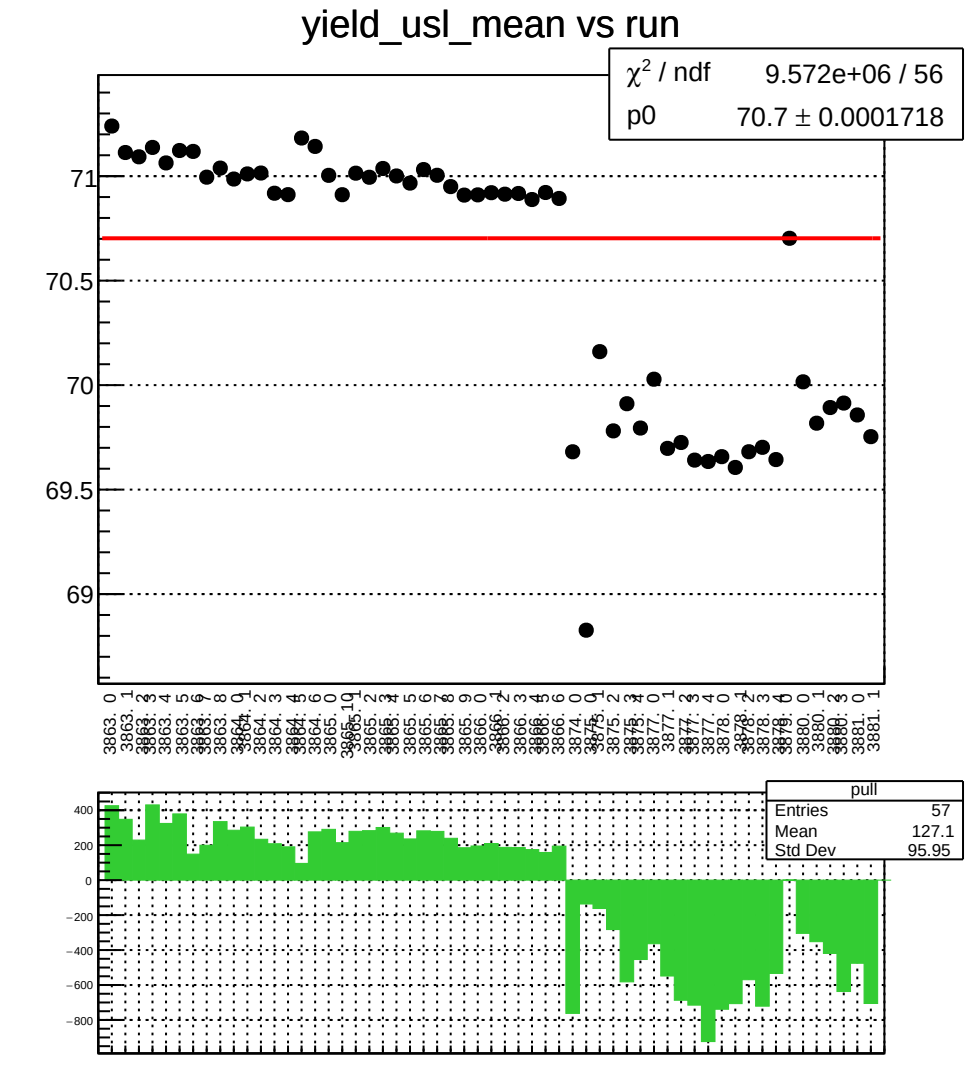

pull1D
Entries 57
Mean 0.01254
Std Dev 0.4314

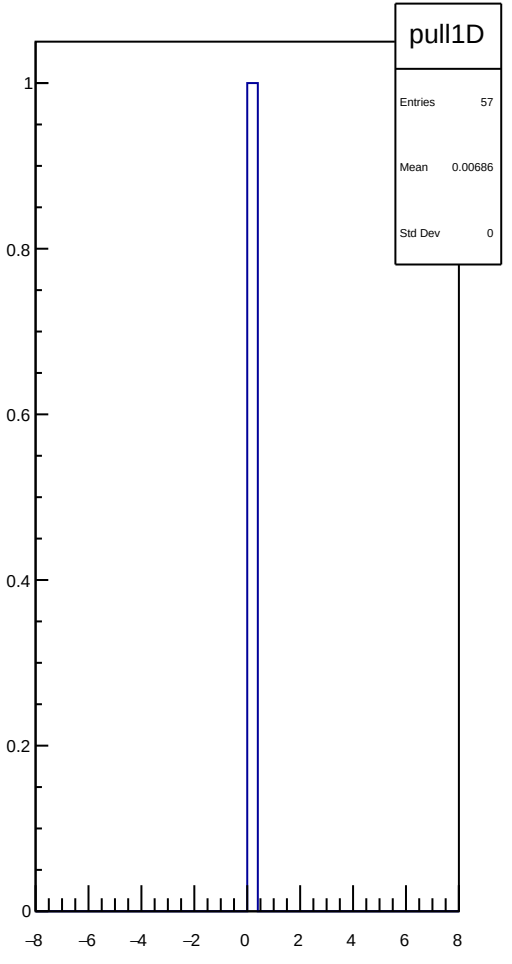

asym_bcm_an_ds_cav4cQ_agg_avg_rms vs run
χ² / ndf 3.713e+04 / 56
p0 117.4 ± 0.1146
220
200
180
160
140
120
100
80

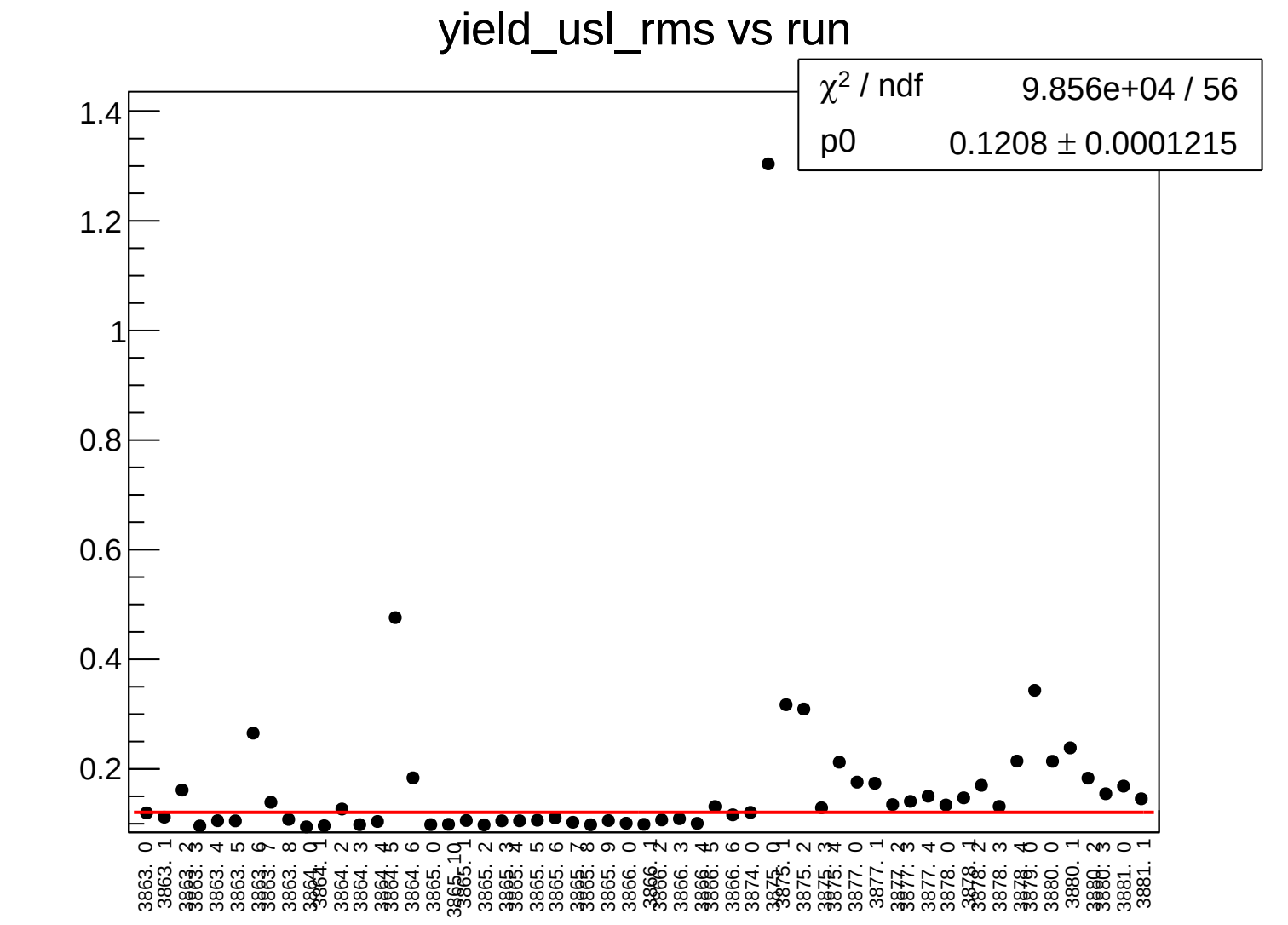

asym_bcm_an_ds_cav4cQ_agg_dd_mean vs run
χ² / ndf 45.42 / 56
p0 28.68 ± 32.99
1000
500
0
−500
−1000
pull
Entries 57
Mean −71.34
Std Dev 95.93
3
2
1
0
−1
−2

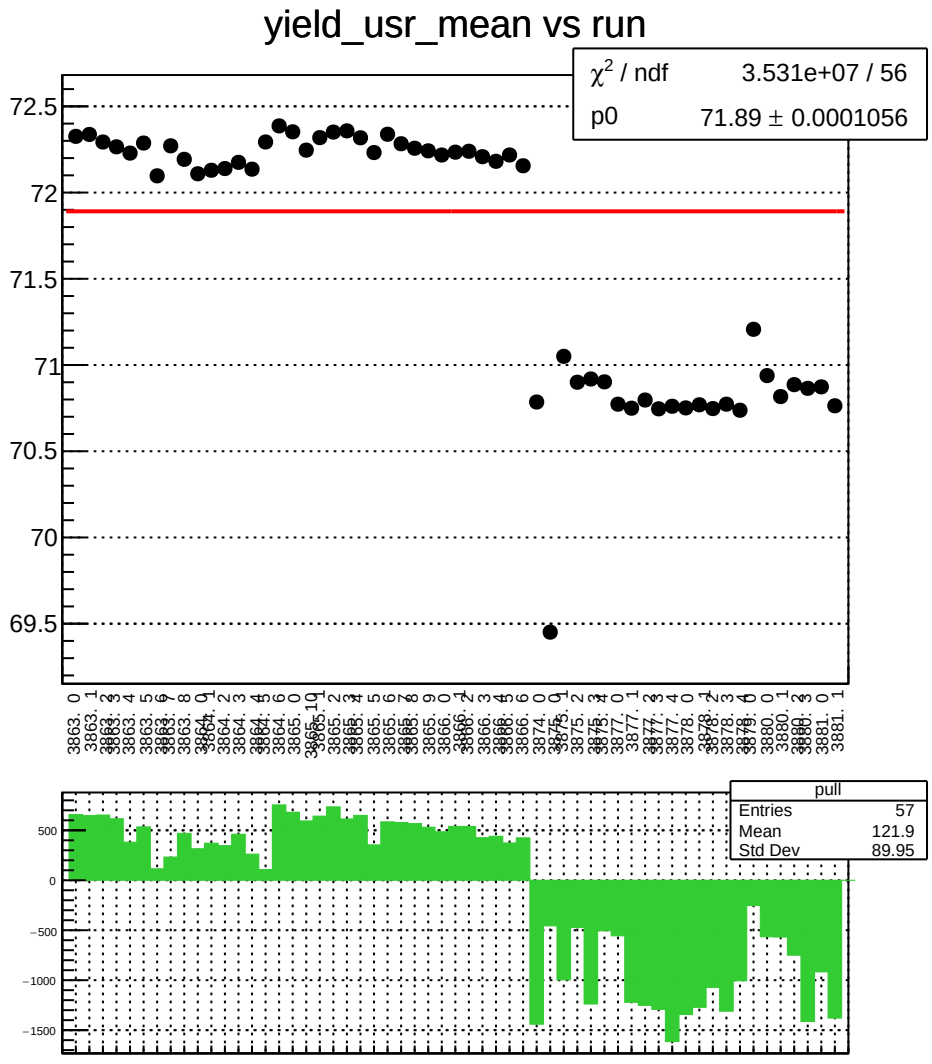

pull1D
Entries 57
Mean 0.02504
Std Dev 0.8923
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

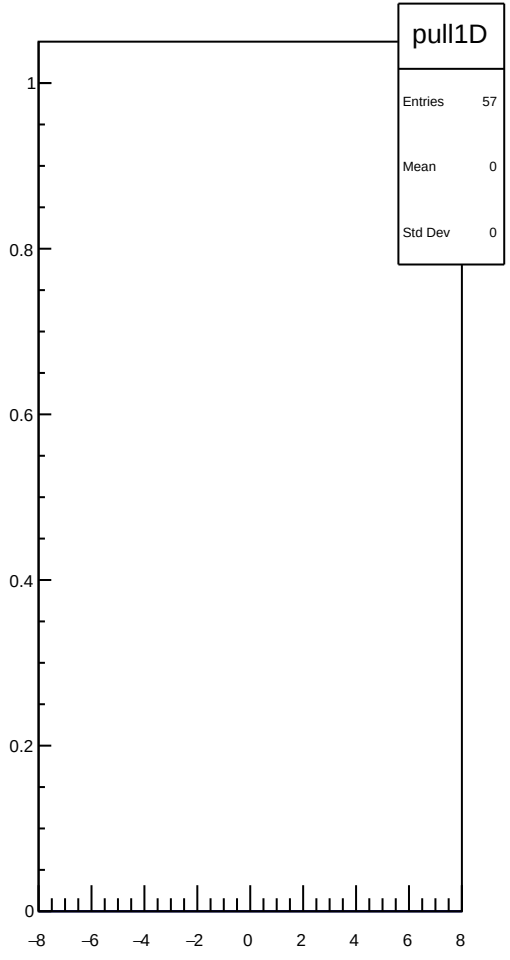

asym_bcm_an_ds_cav4cQ_agg_dd_rms vs run
χ² / ndf 2.641e+04 / 56
p0 24.03 ± 0.02333
34
32
30
28
26
24
22
20
18

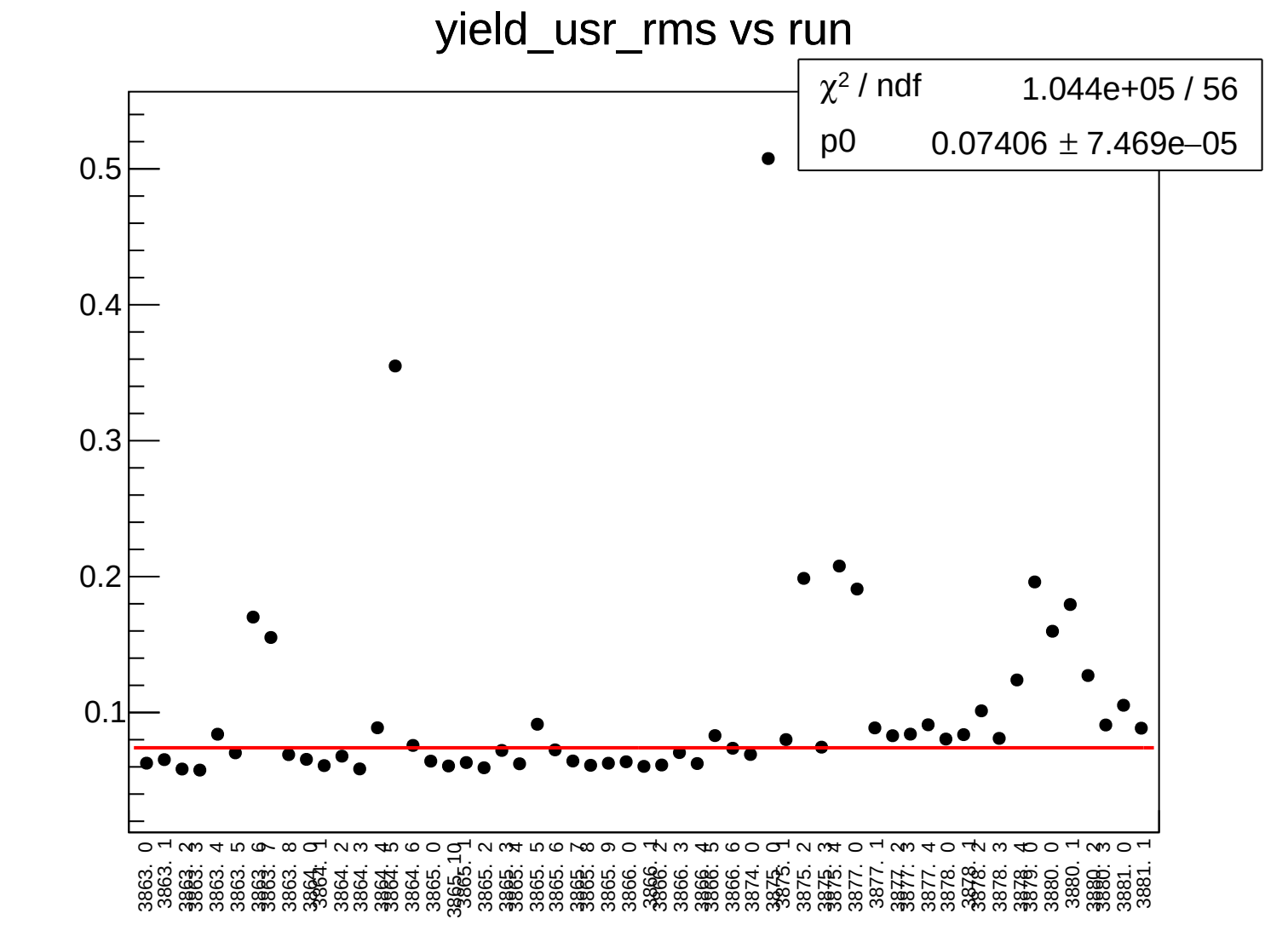

yield_usl_mean vs run
χ² / ndf 9.572e+06 / 56
p0 70.7 ± 0.0001718
71
70.5
70
69.5
69
pull
Entries 57
Mean 127.1
Std Dev 95.95
400
200
0
−200
−400
−600
−800

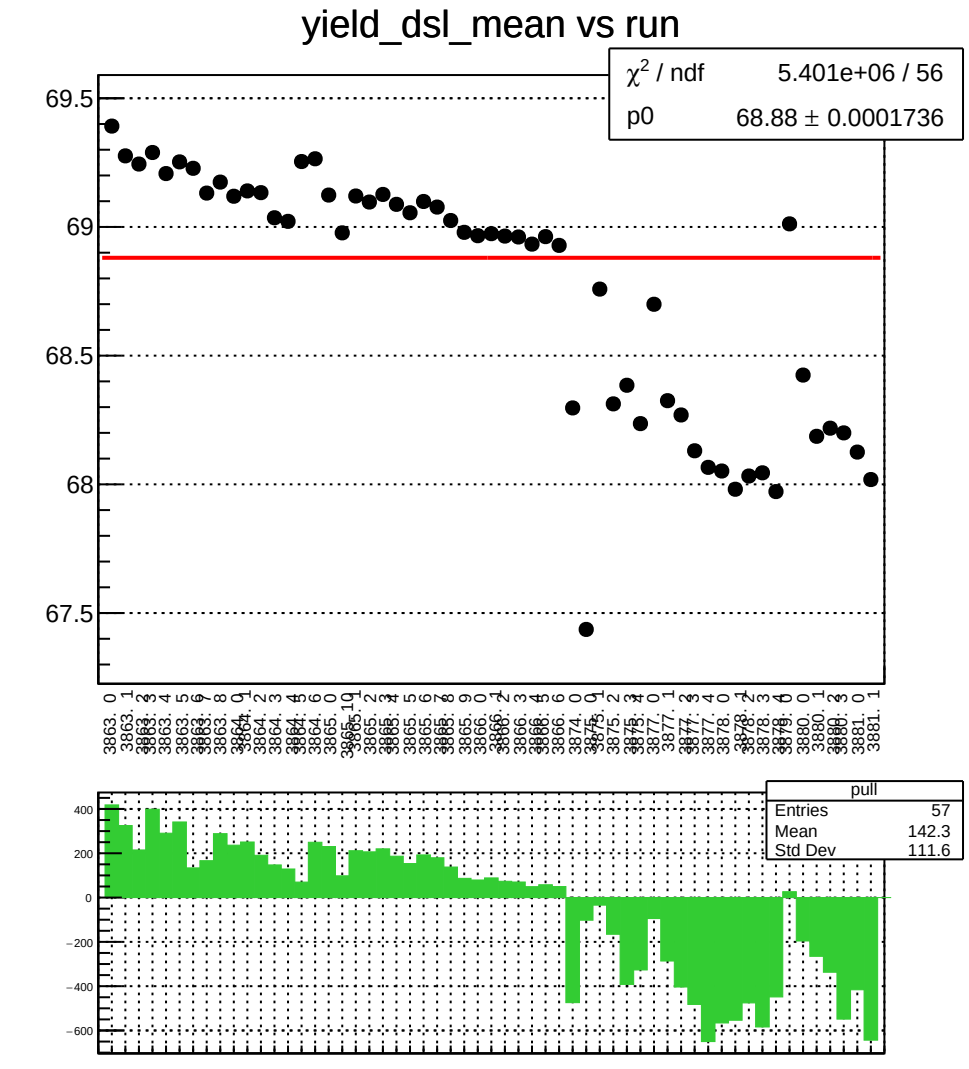

pull1D
Entries 57
Mean 0.00686
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

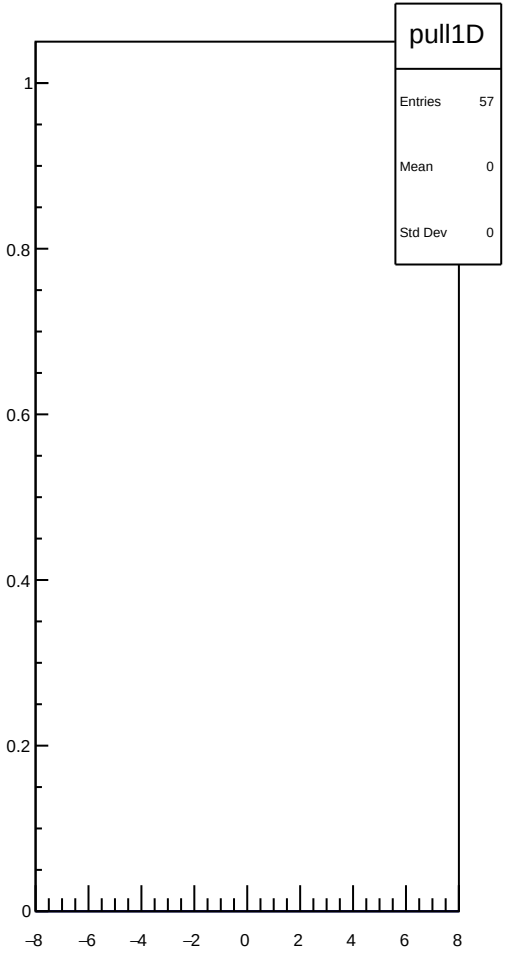

yield_usl_rms vs run
χ² / ndf 9.856e+04 / 56
p0 0.1208 ± 0.0001215
1.4
1.2
1
0.8
0.6
0.4
0.2

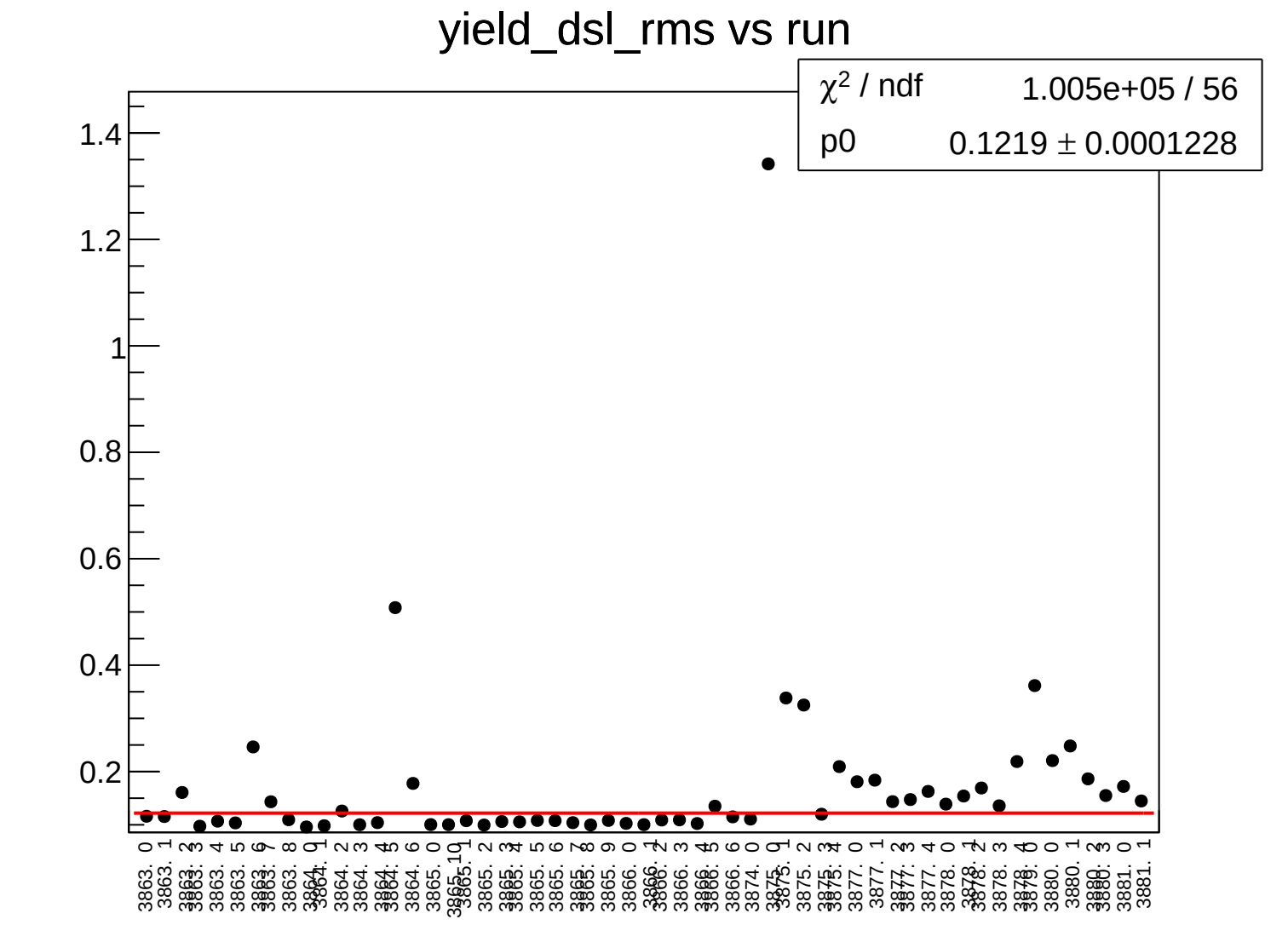

yield_usr_mean vs run
χ² / ndf 3.531e+07 / 56
p0 71.89 ± 0.0001056
72.5
72
71.5
71
70.5
70
69.5
pull
Entries 57
Mean 121.9
Std Dev 89.95
500
0
−500
−1000
−1500

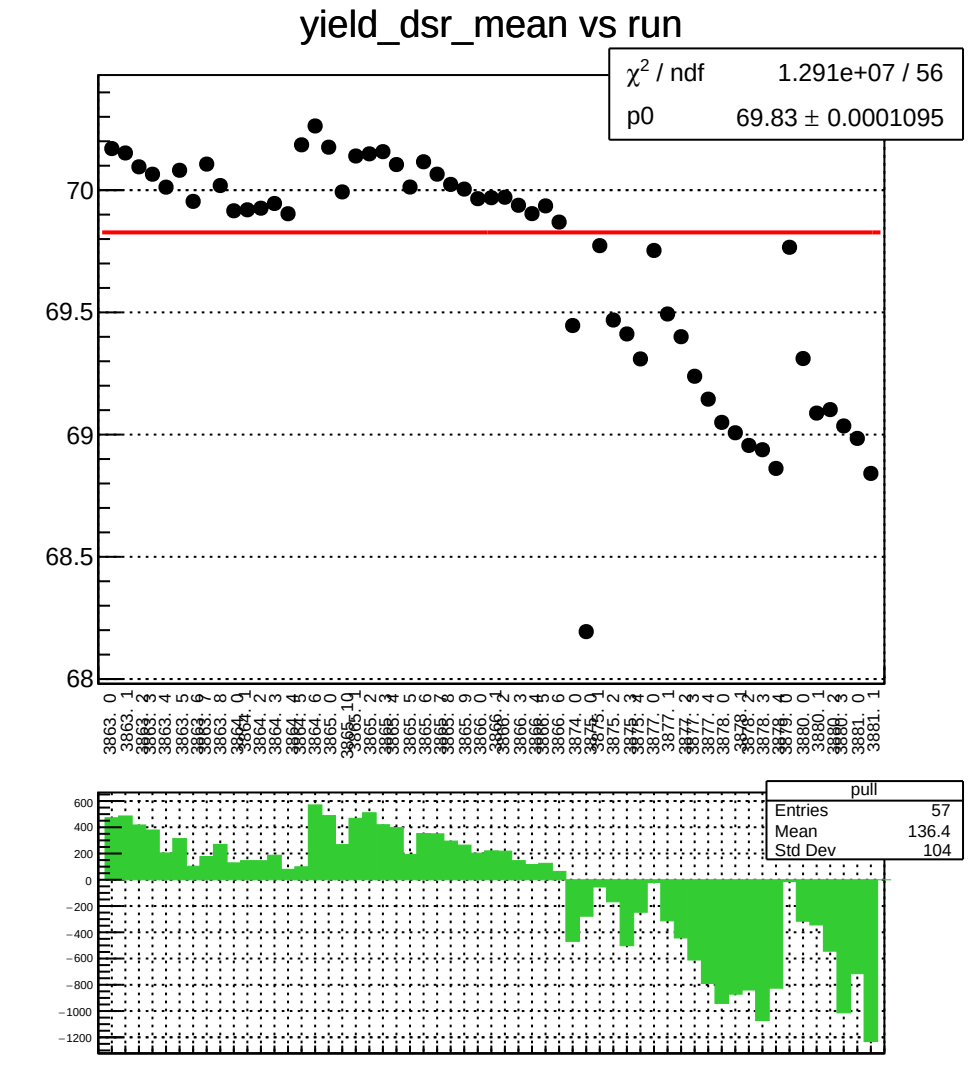

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

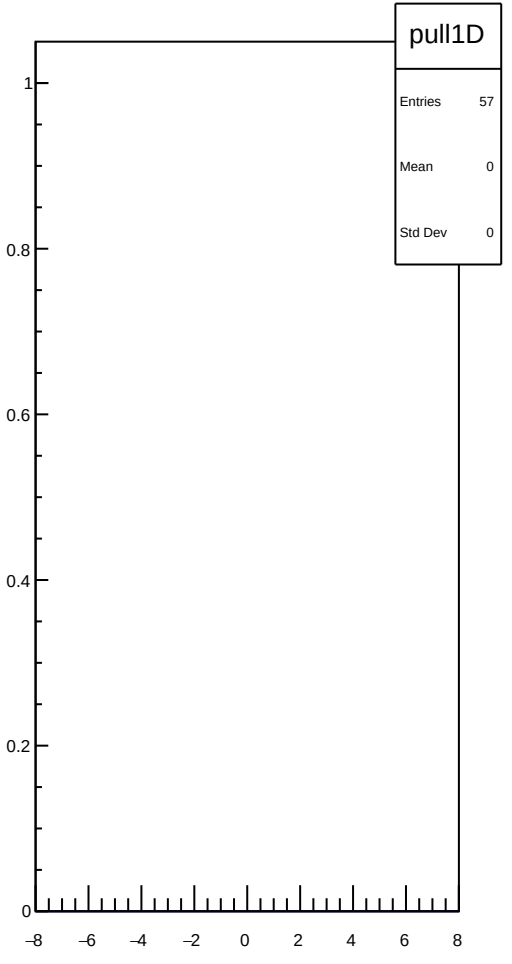

yield_usr_rms vs run
χ² / ndf 1.044e+05 / 56
p0 0.07406 ± 7.469e–05
0.5
0.4
0.3
0.2
0.1

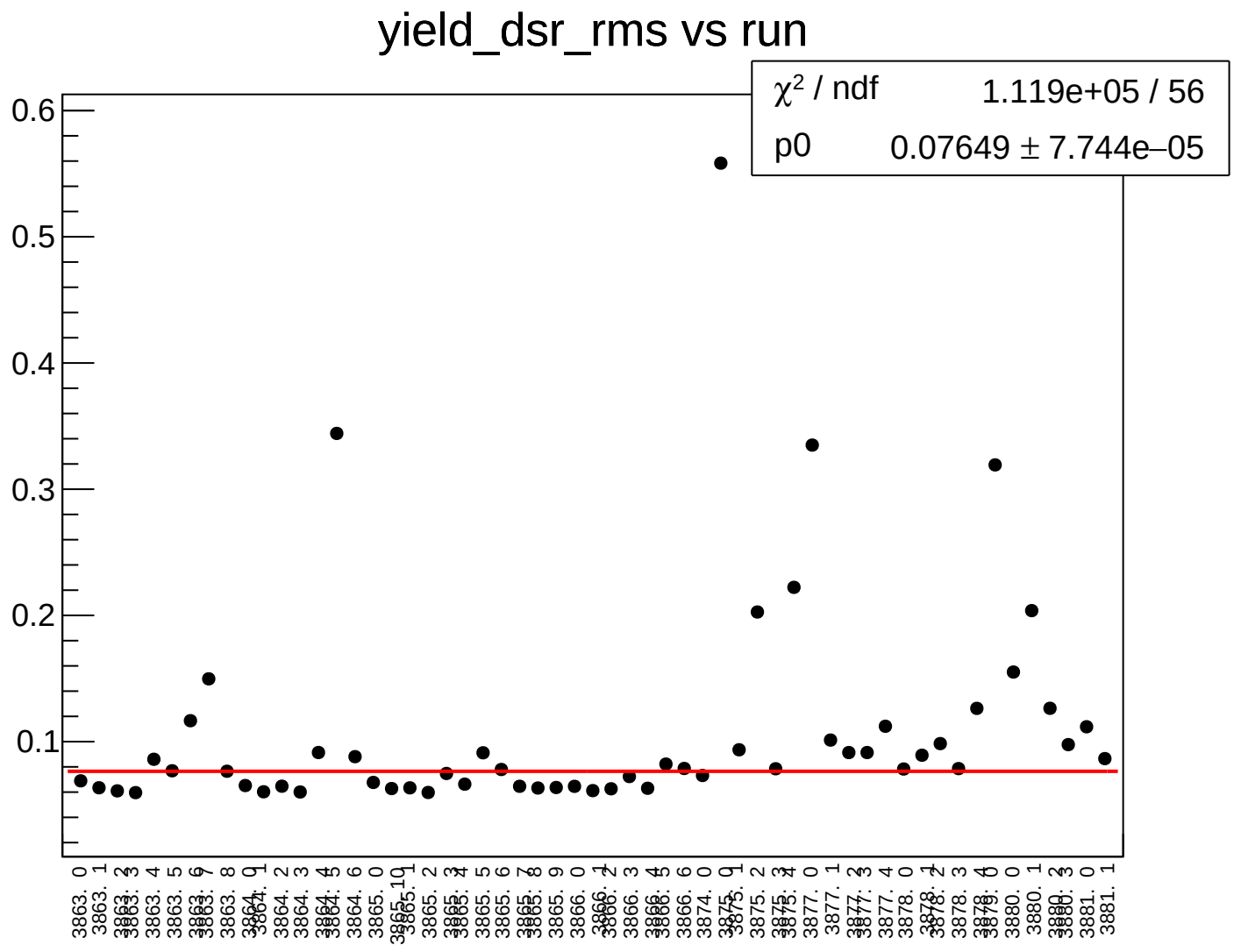

yield_dsl_mean vs run
χ² / ndf 5.401e+06 / 56
p0 68.88 ± 0.0001736
69.5
69
68.5
68
67.5
pull
Entries 57
Mean 142.3
Std Dev 111.6
400
200
0
−200
−400
−600

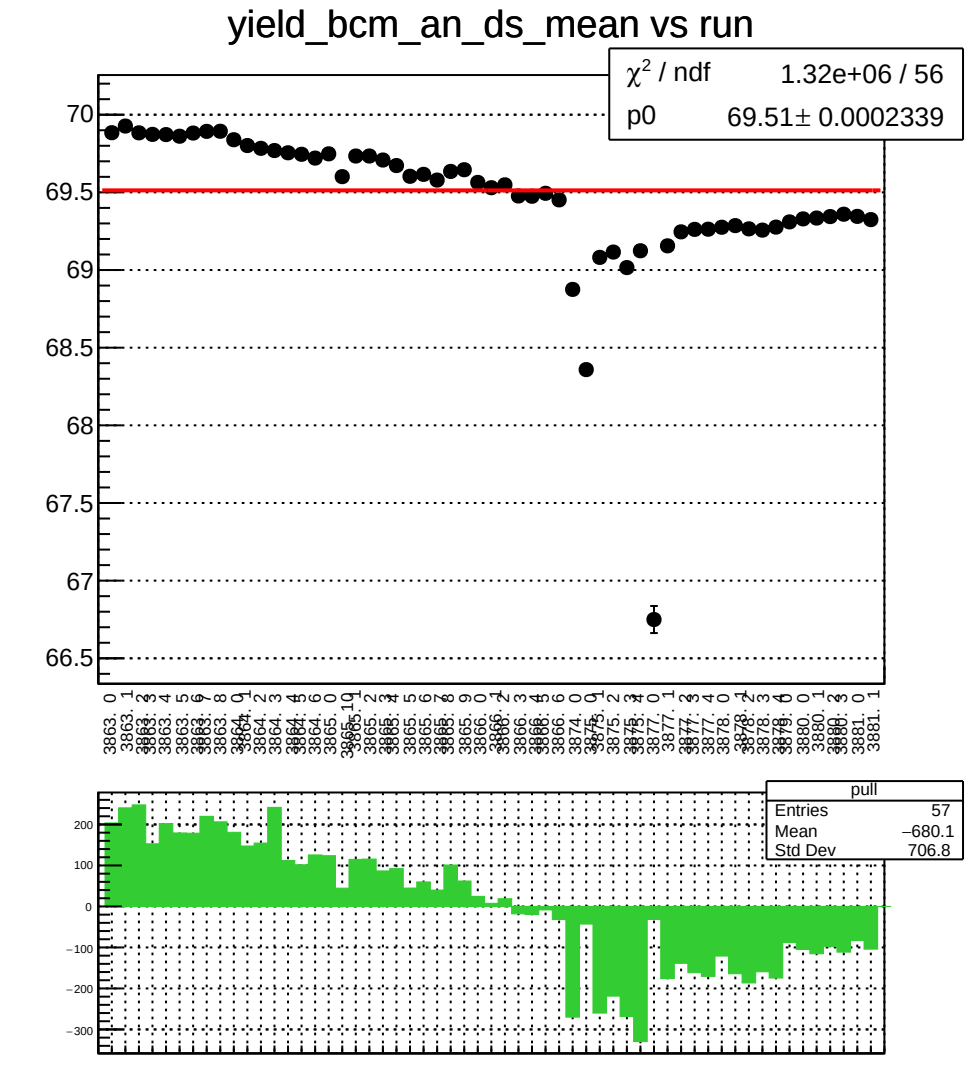

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

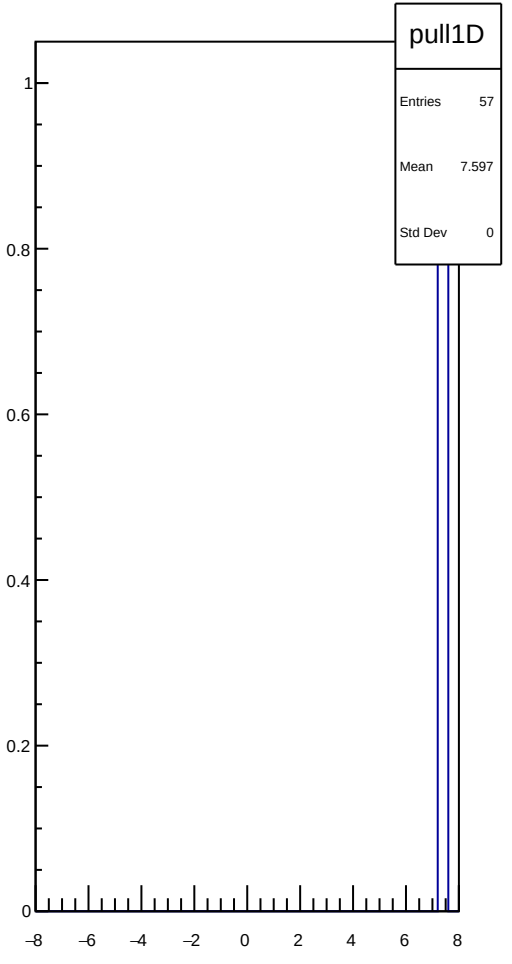

yield_dsl_rms vs run
χ² / ndf 1.005e+05 / 56
p0 0.1219 ± 0.0001228
1.4
1.2
1
0.8
0.6
0.4
0.2

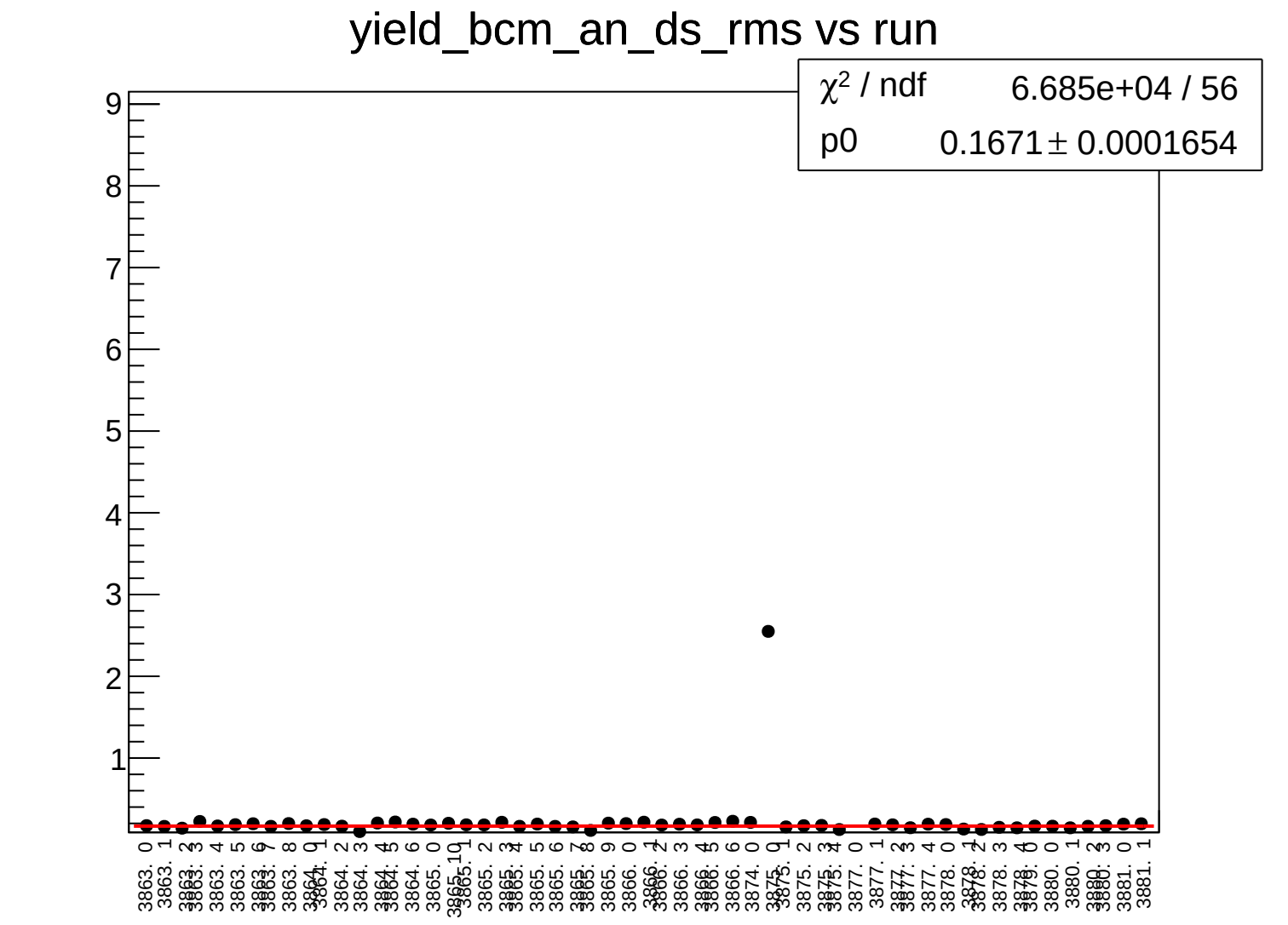

yield_dsr_mean vs run
χ² / ndf 1.291e+07 / 56
p0 69.83 ± 0.0001095
70
69.5
69
68.5
68
pull
Entries 57
Mean 136.4
Std Dev 104
600
400
200
0
−200
−400
−600
−800
−1000
−1200

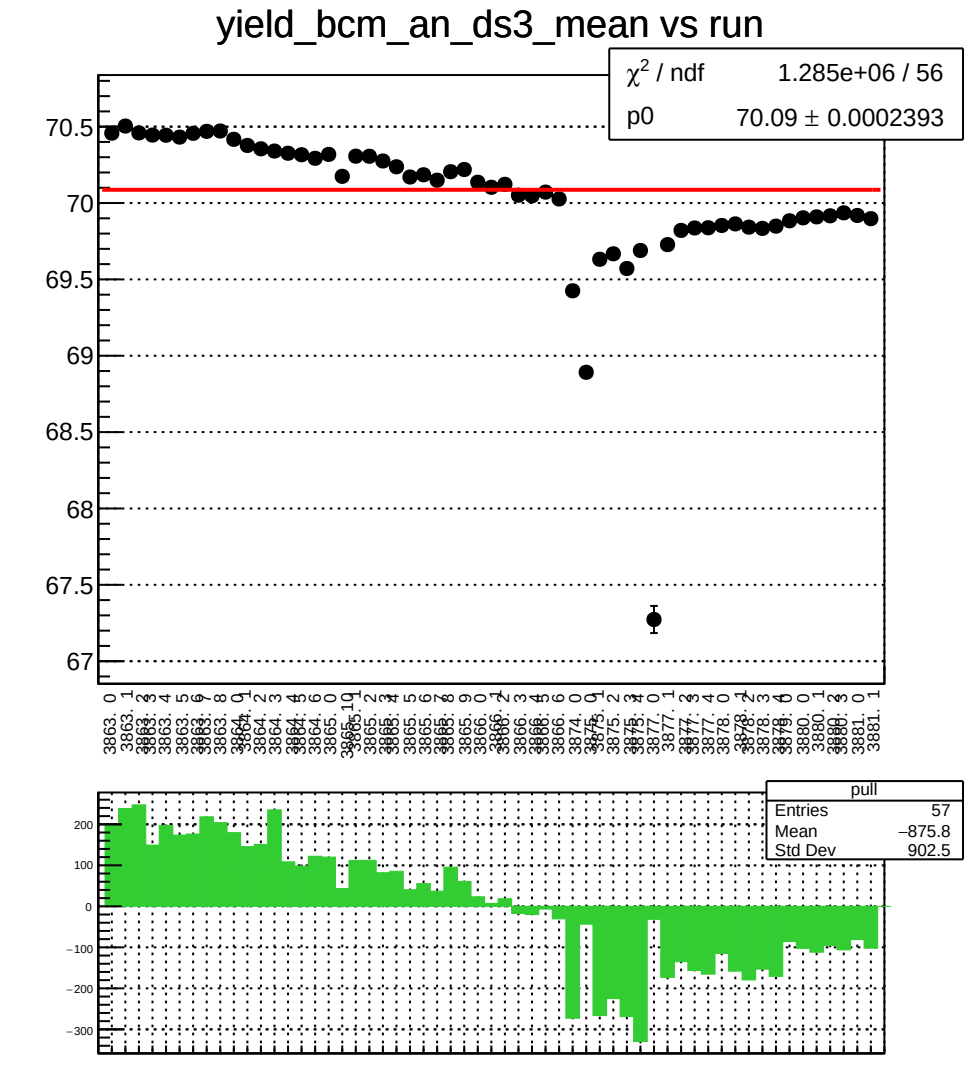

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

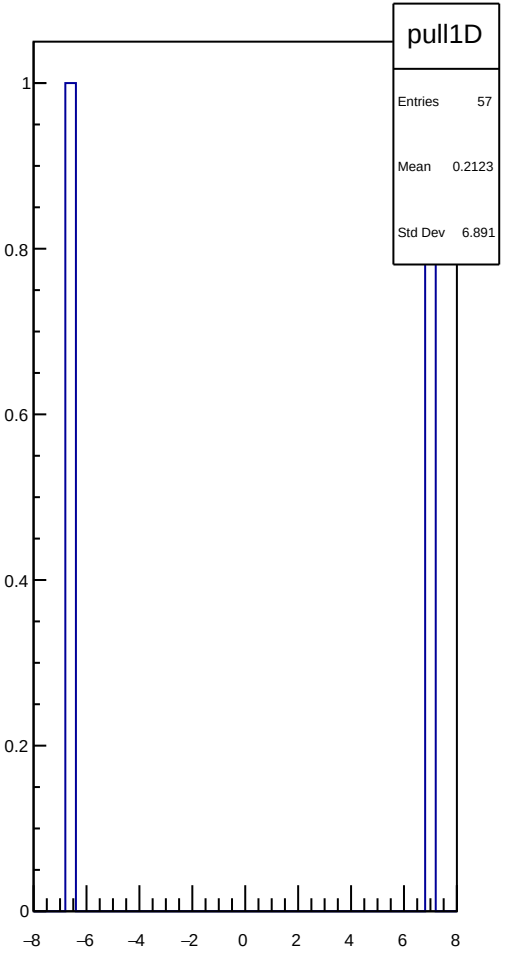

yield_dsr_rms vs run
χ² / ndf 1.119e+05 / 56
p0 0.07649 ± 7.744e−05
0.6
0.5
0.4
0.3
0.2
0.1

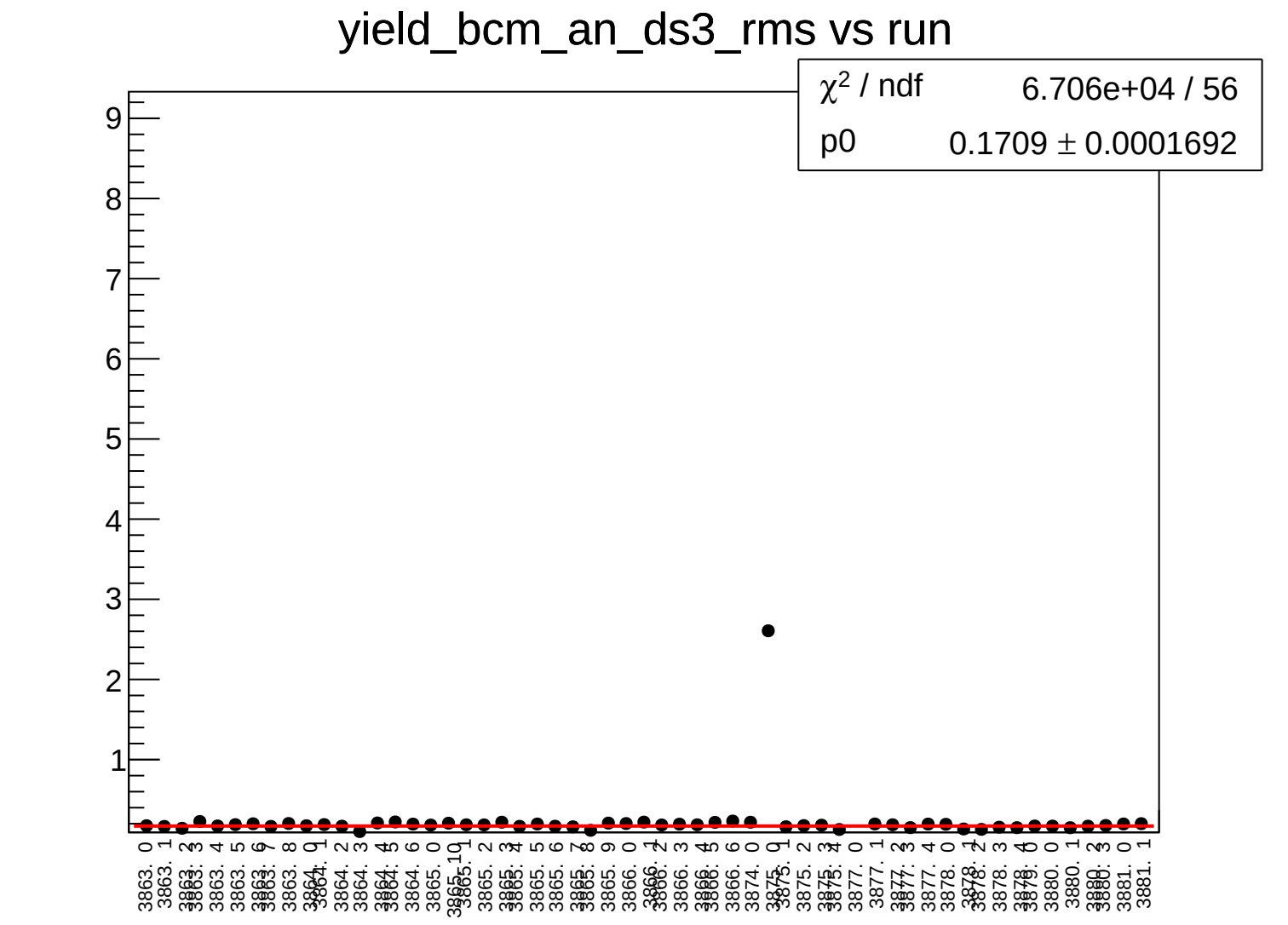

yield_bcm_an_ds_mean vs run
χ² / ndf 1.32e+06 / 56
p0 69.51± 0.0002339
70
69.5
69
68.5
68
67.5
67
66.5
pull
Entries 57
Mean −680.1
Std Dev 706.8
200
100
0
−100
−200
−300

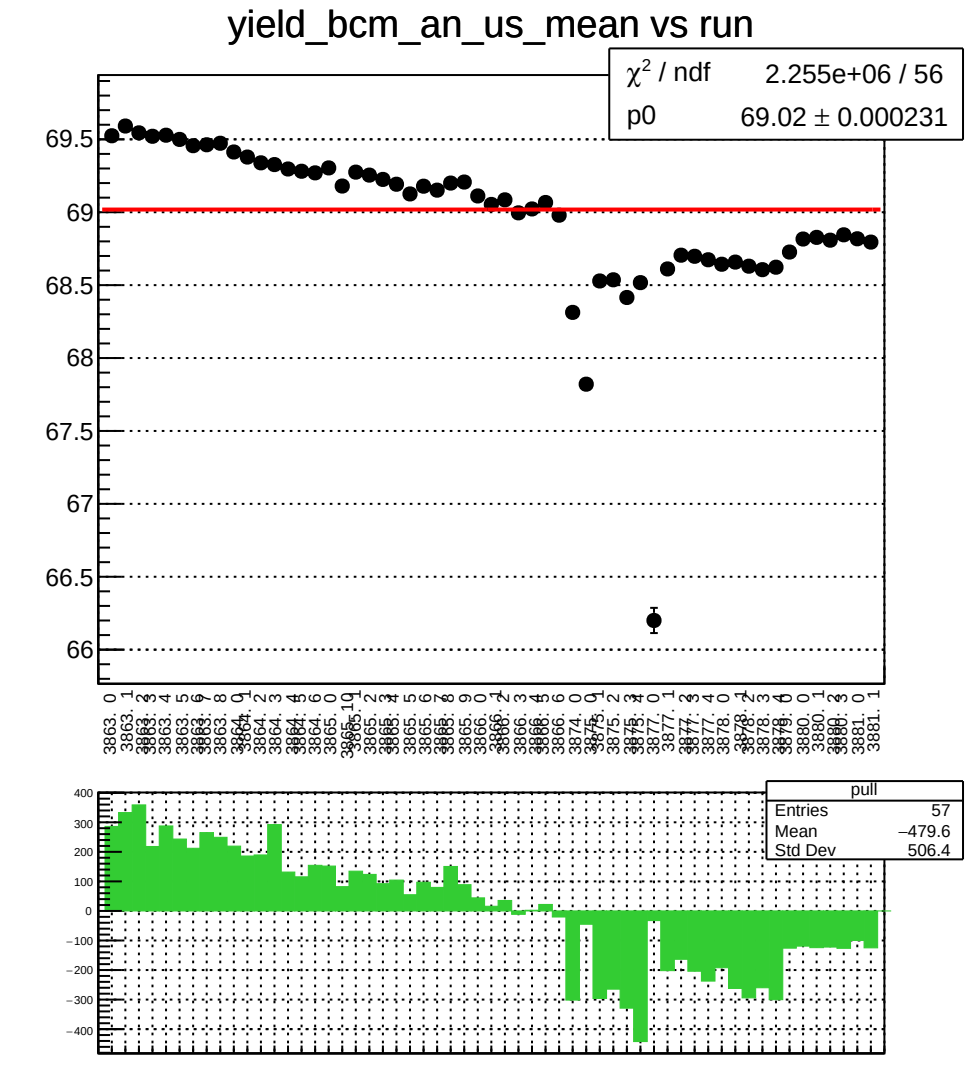

pull1D
Entries 57
Mean 7.597
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

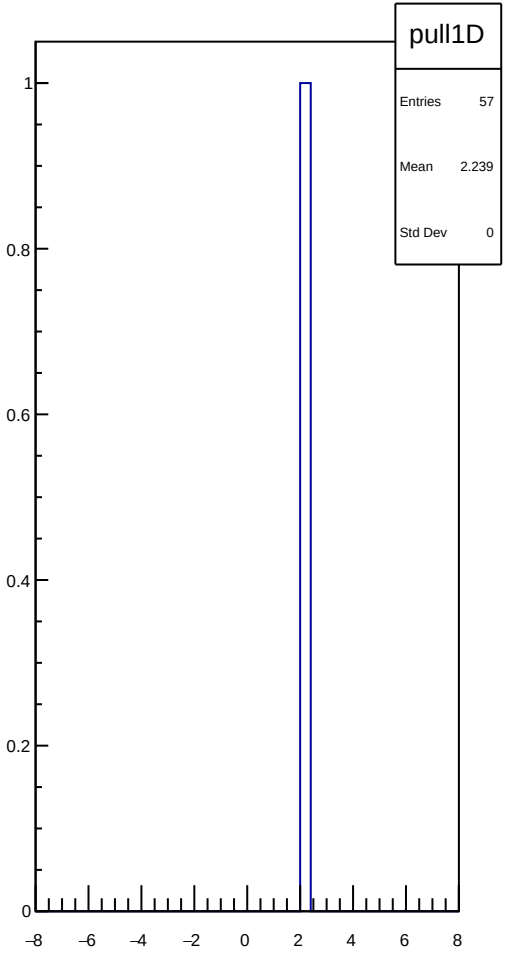

yield_bcm_an_ds_rms vs run
χ² / ndf 6.685e+04 / 56
p0 0.1671 ± 0.0001654
9
8
7
6
5
4
3
2
1
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

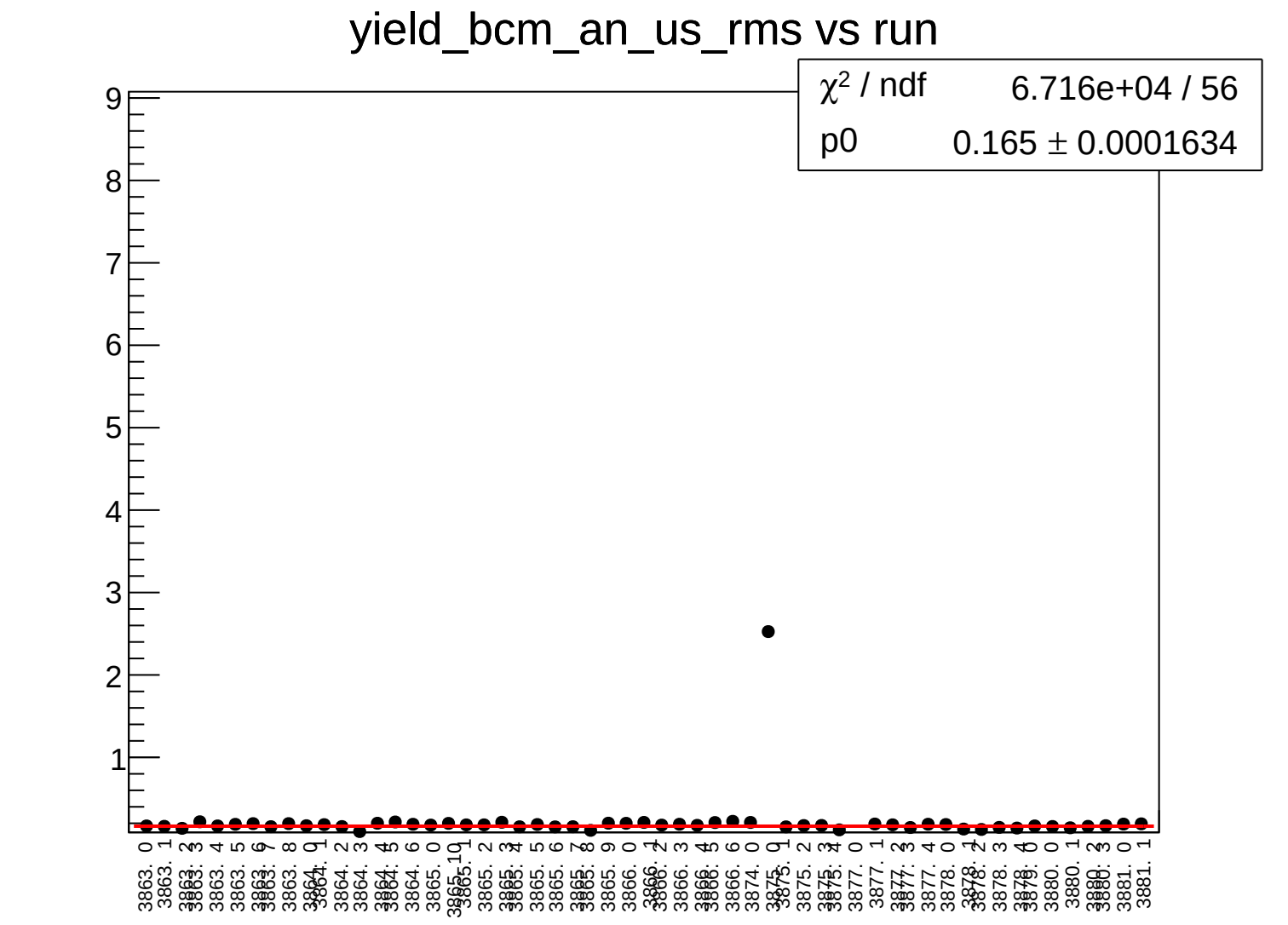

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.285e+06 / 56
p0 70.09 ± 0.0002393
pull
Entries 57
Mean −875.8
Std Dev 902.5

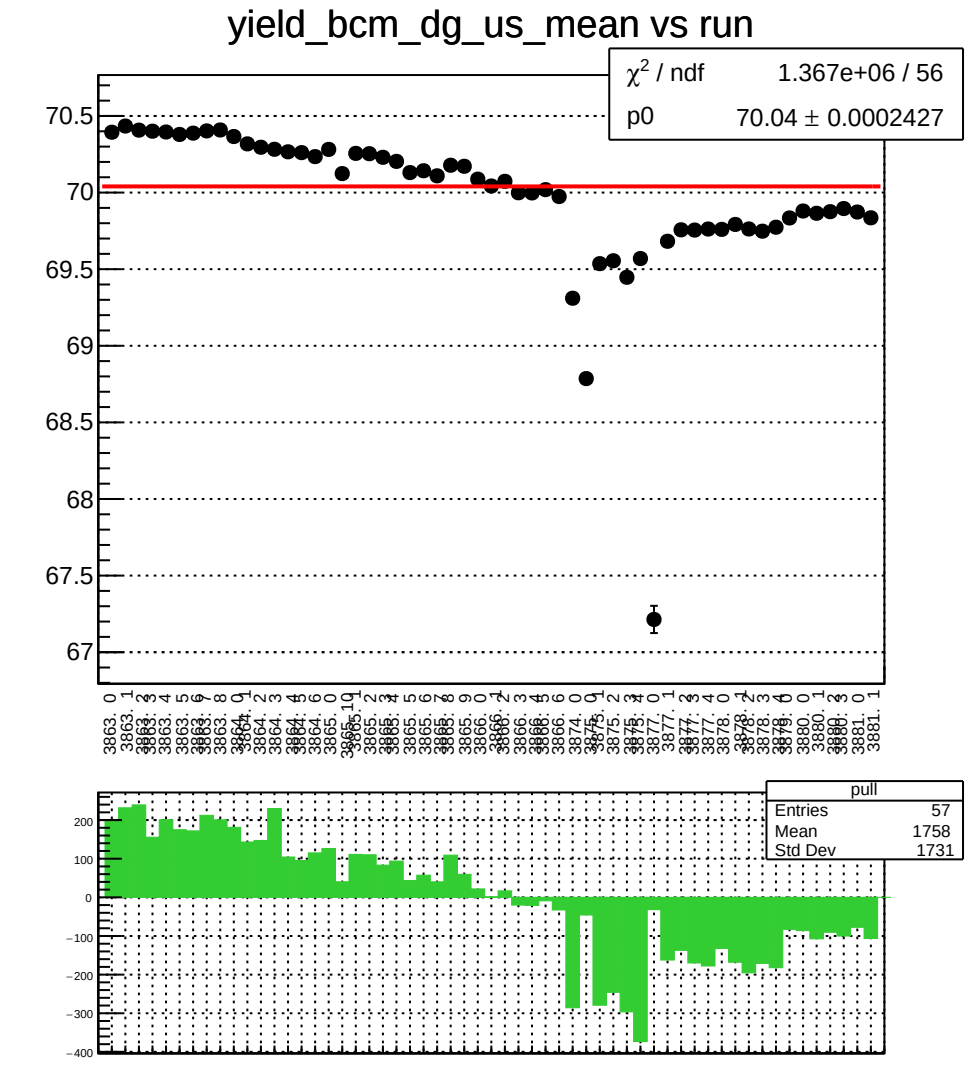

pull1D
Entries 57
Mean 0.2123
Std Dev 6.891

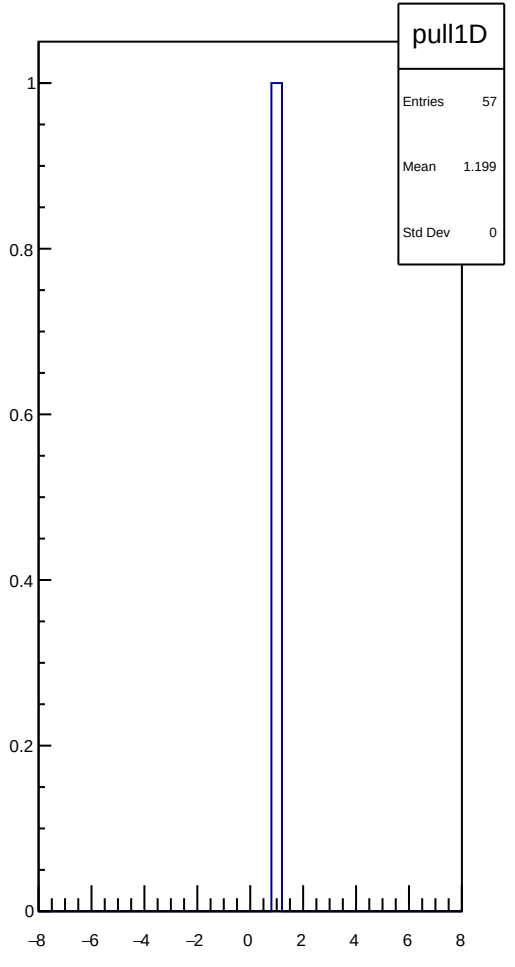

yield_bcm_an_ds3_rms vs run
χ² / ndf 6.706e+04 / 56
p0 0.1709 ± 0.0001692
9
8
7
6
5
4
3
2
1
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

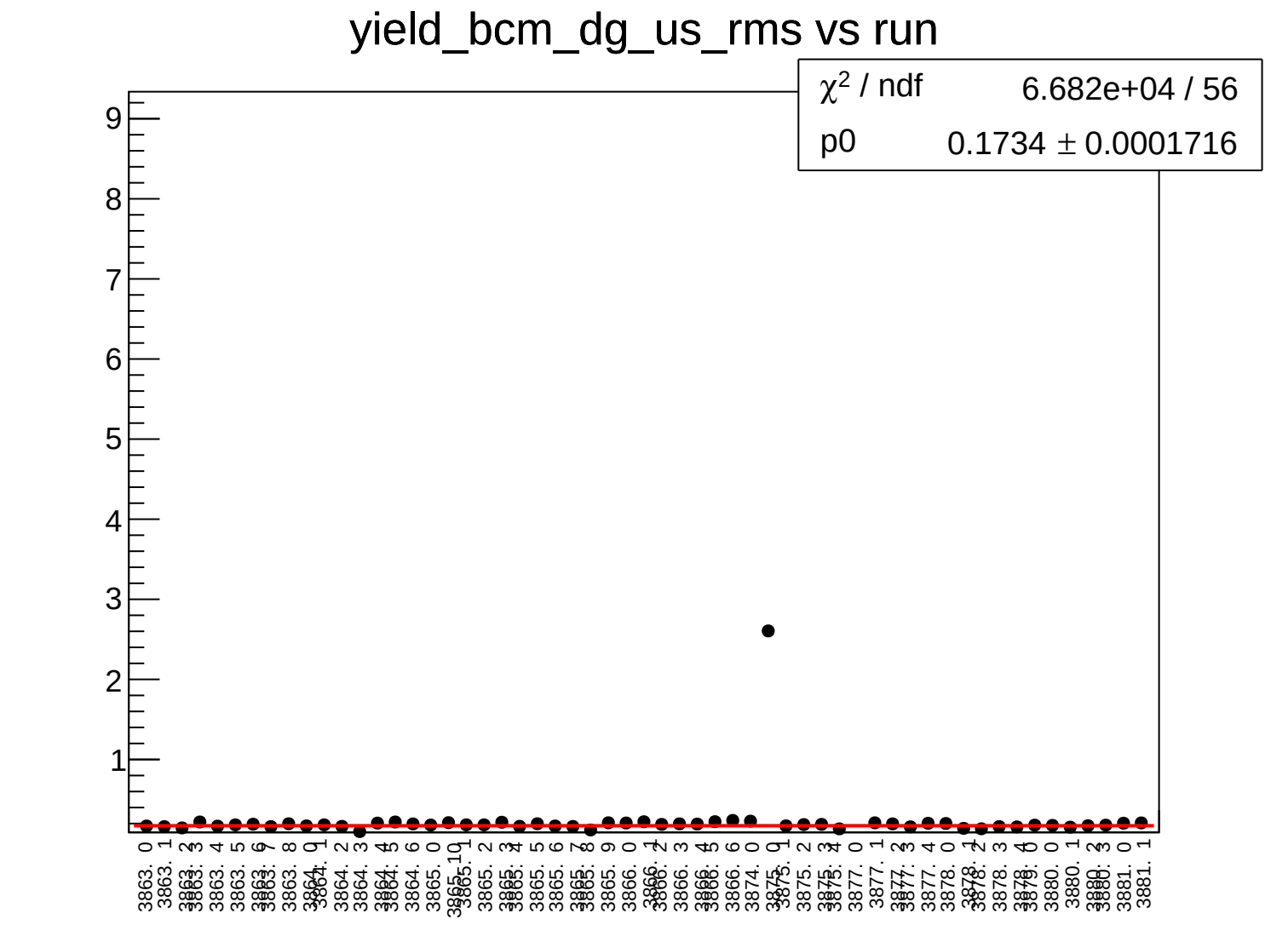

yield_bcm_an_us_mean vs run
χ² / ndf 2.255e+06 / 56
p0 69.02 ± 0.000231
pull
Entries 57
Mean −479.6
Std Dev 506.4

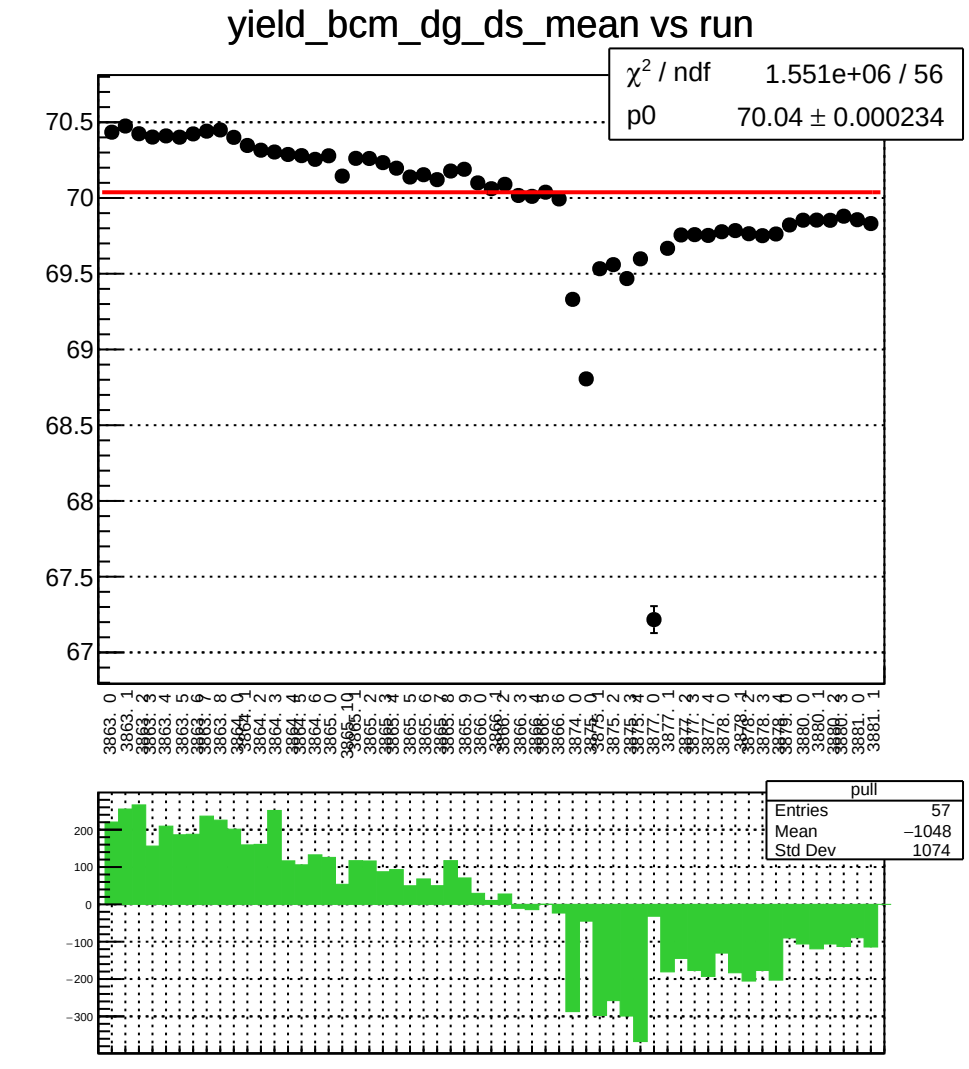

pull1D
Entries 57
Mean 2.239
Std Dev 0

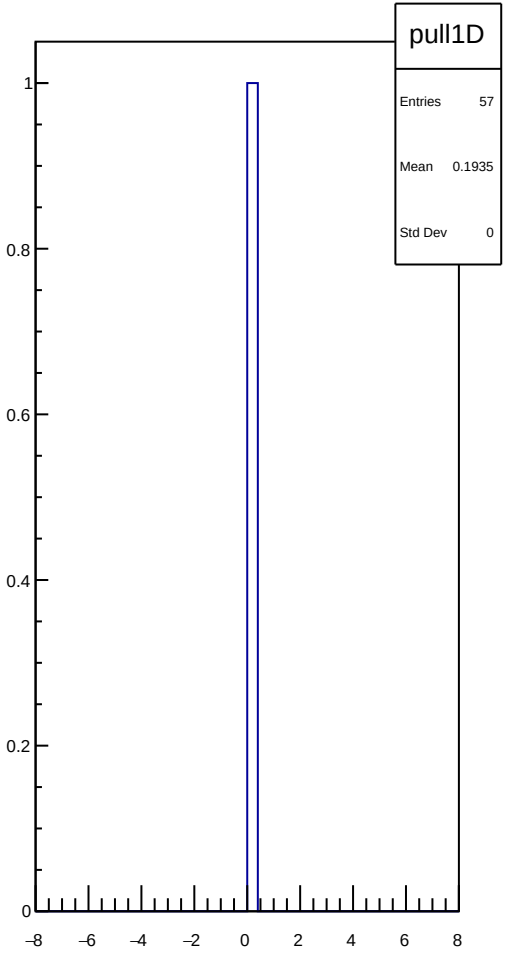

yield_bcm_an_us_rms vs run
χ² / ndf 6.716e+04 / 56
p0 0.165 ± 0.0001634
9
8
7
6
5
4
3
2
1
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

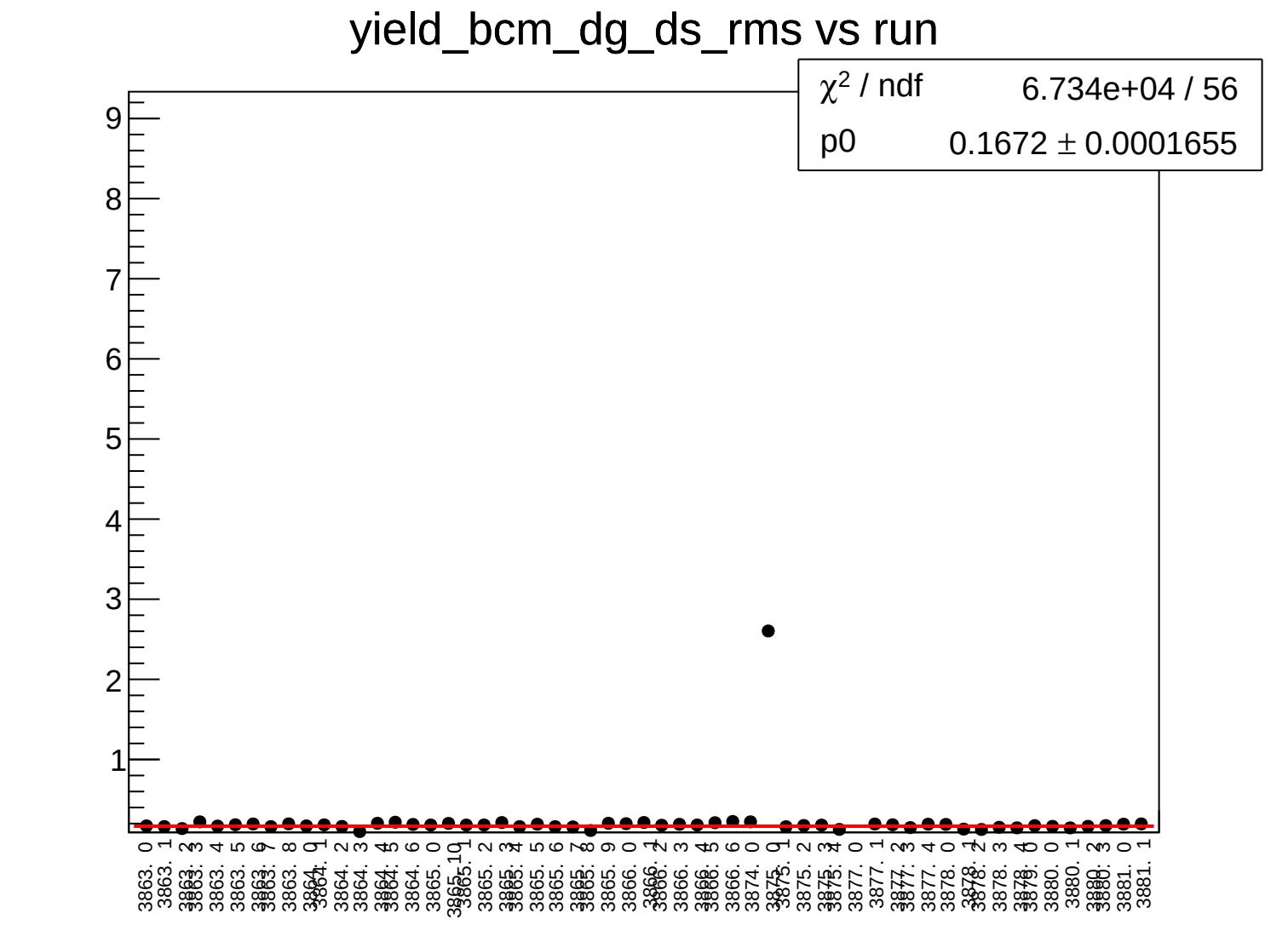

yield_bcm_dg_us_mean vs run
χ² / ndf 1.367e+06 / 56
p0 70.04 ± 0.0002427
pull
Entries 57
Mean 1758
Std Dev 1731

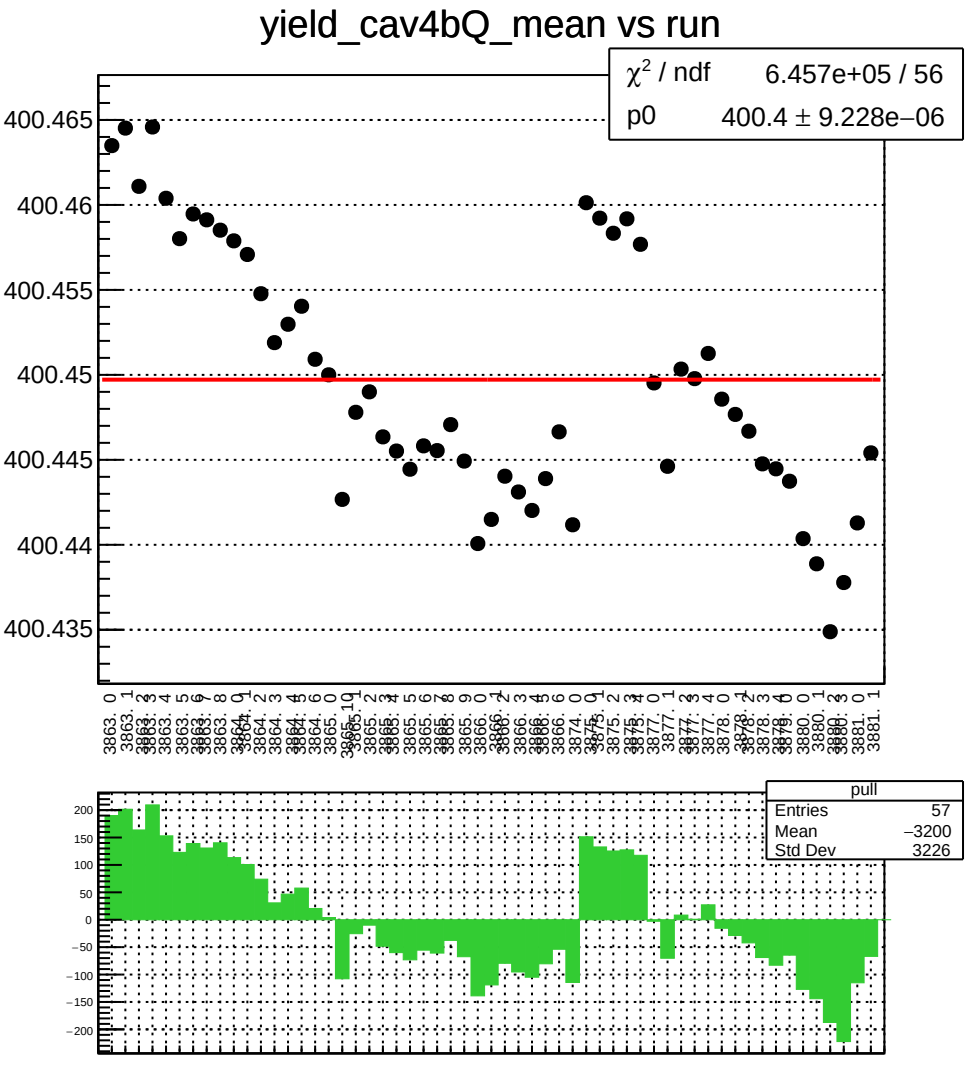

pull1D
Entries 57
Mean 1.199
Std Dev 0

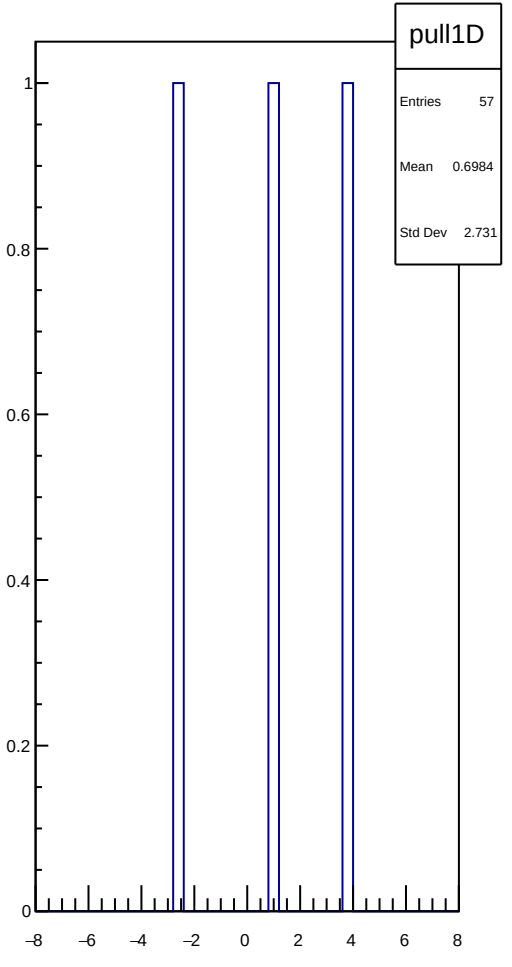

yield_bcm_dg_us_rms vs run
χ² / ndf 6.682e+04 / 56
p0 0.1734 ± 0.0001716
9
8
7
6
5
4
3
2
1
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

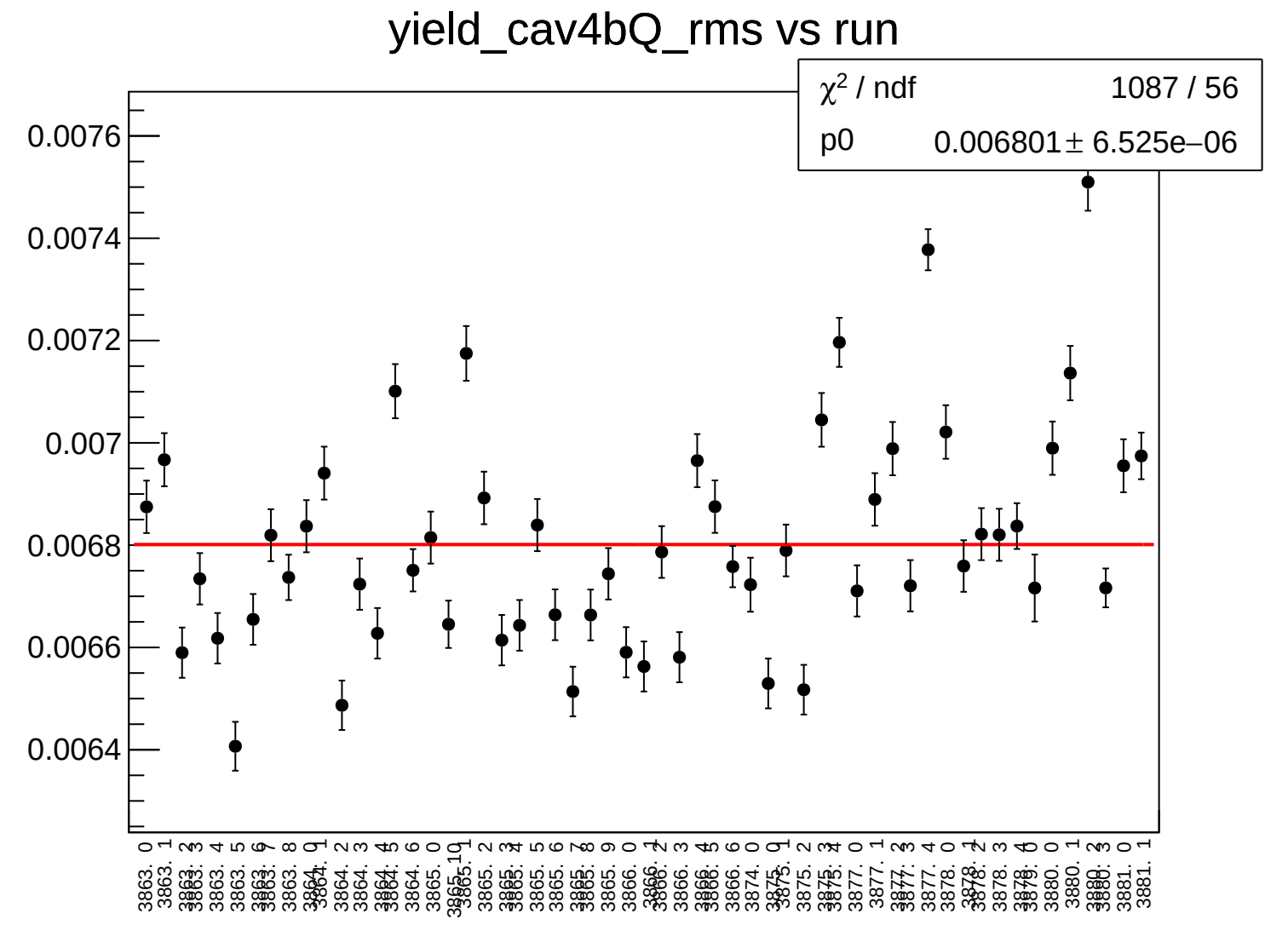

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.551e+06 / 56
p0 70.04 ± 0.000234
70.5
70
69.5
69
68.5
68
67.5
67
pull
Entries 57
Mean −1048
Std Dev 1074
200
100
0
−100
−200
−300

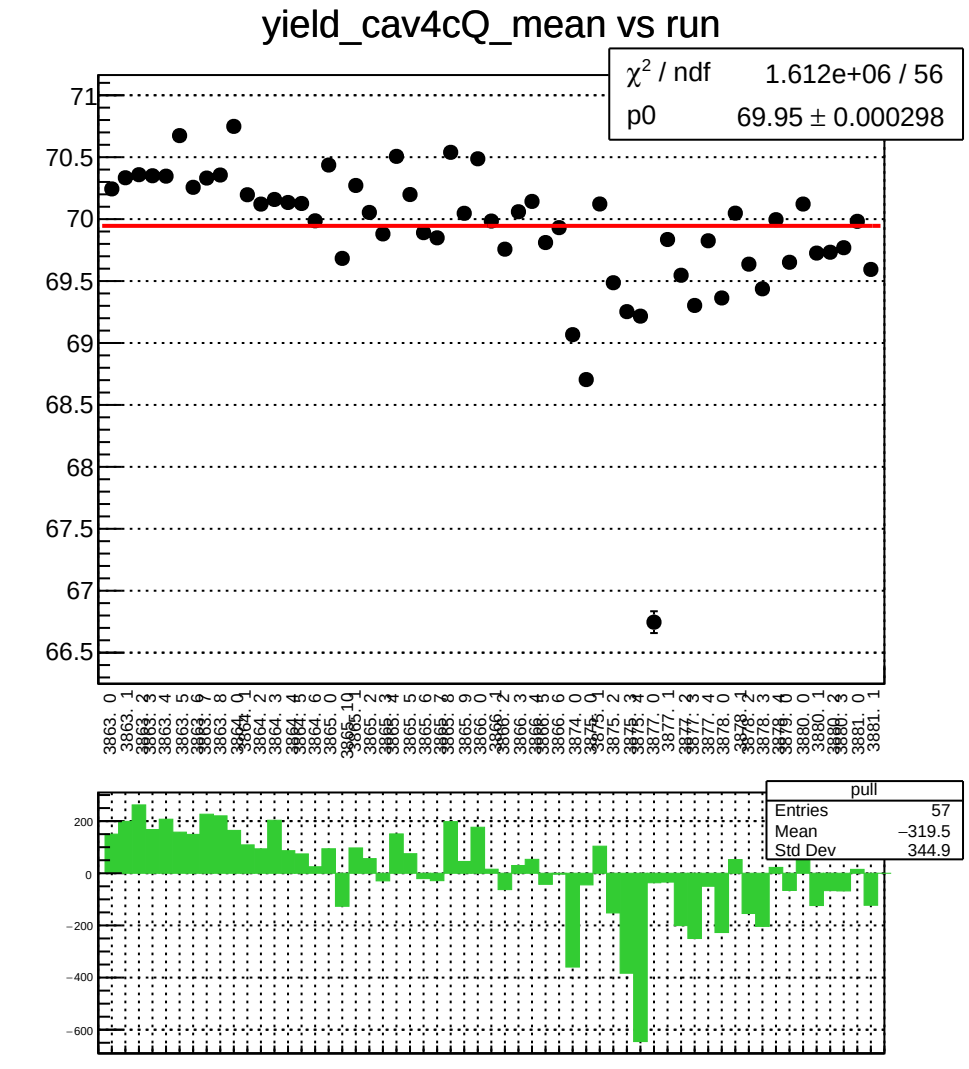

pull1D
Entries 57
Mean 0.1935
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

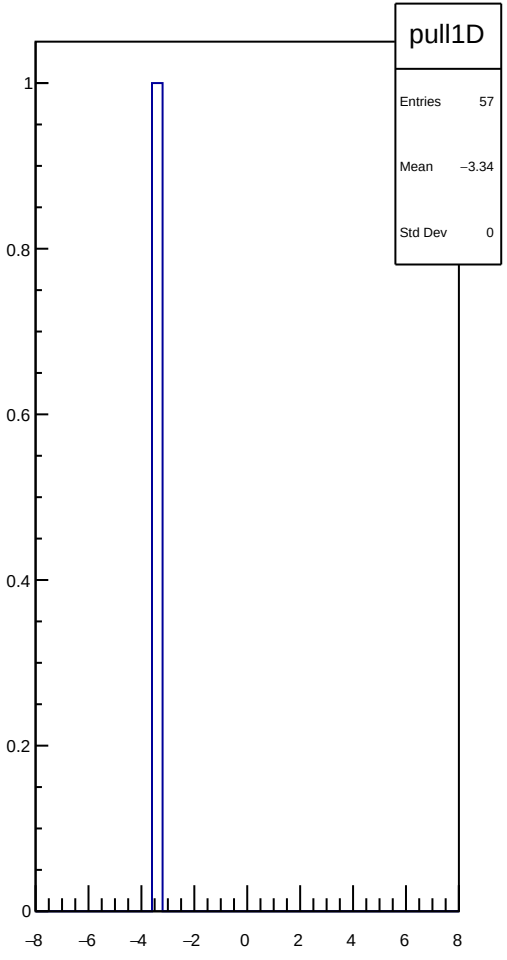

yield_bcm_dg_ds_rms vs run
χ² / ndf 6.734e+04 / 56
p0 0.1672 ± 0.0001655
9
8
7
6
5
4
3
2
1
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

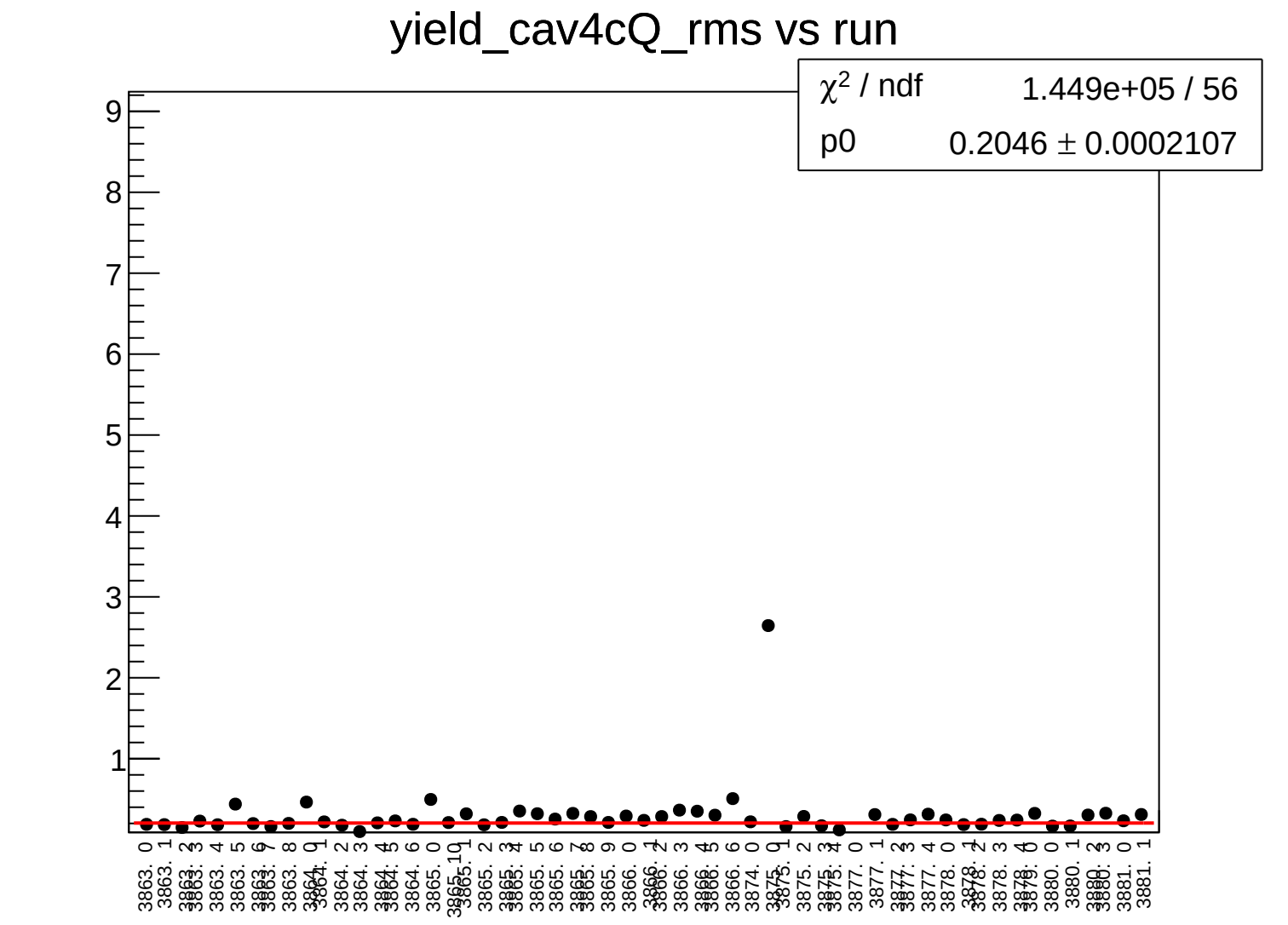

yield_cav4bQ_mean vs run
χ² / ndf 6.457e+05 / 56
p0 400.4 ± 9.228e−06
400.465
400.46
400.455
400.45
400.445
400.44
400.435
pull
Entries 57
Mean −3200
Std Dev 3226
200
150
100
50
0
−50
−100
−150
−200

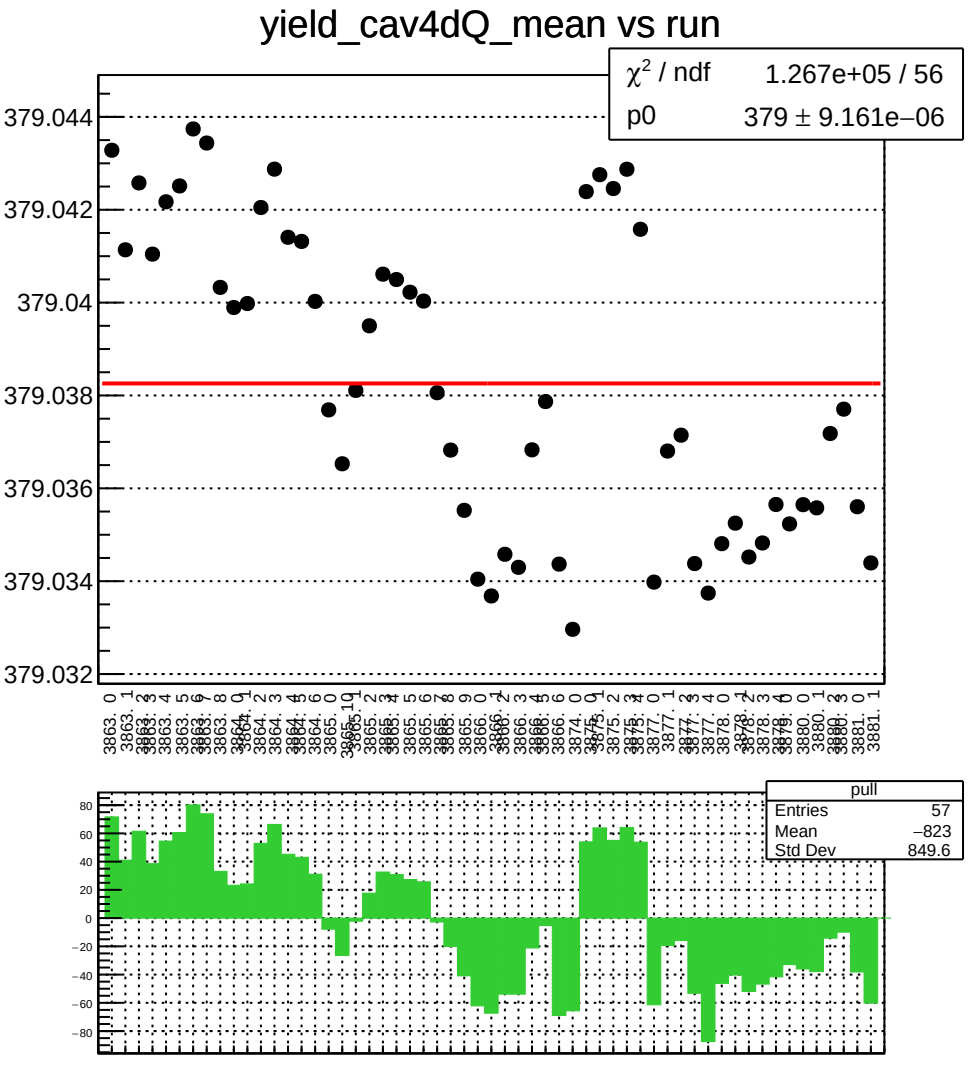

pull1D
Entries 57
Mean 0.6984
Std Dev 2.731
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

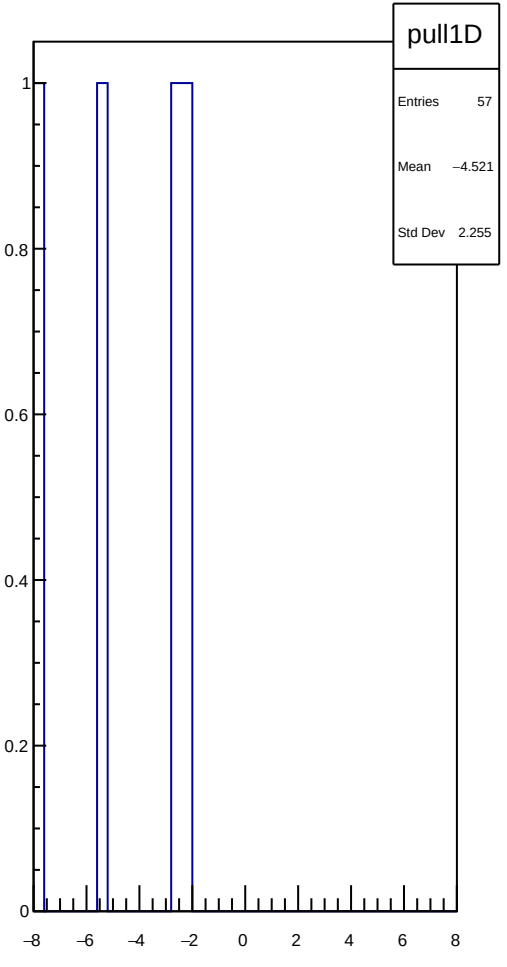

yield_cav4bQ_rms vs run
χ^2 / ndf 1087 / 56
p0 0.006801 ± 6.525e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064

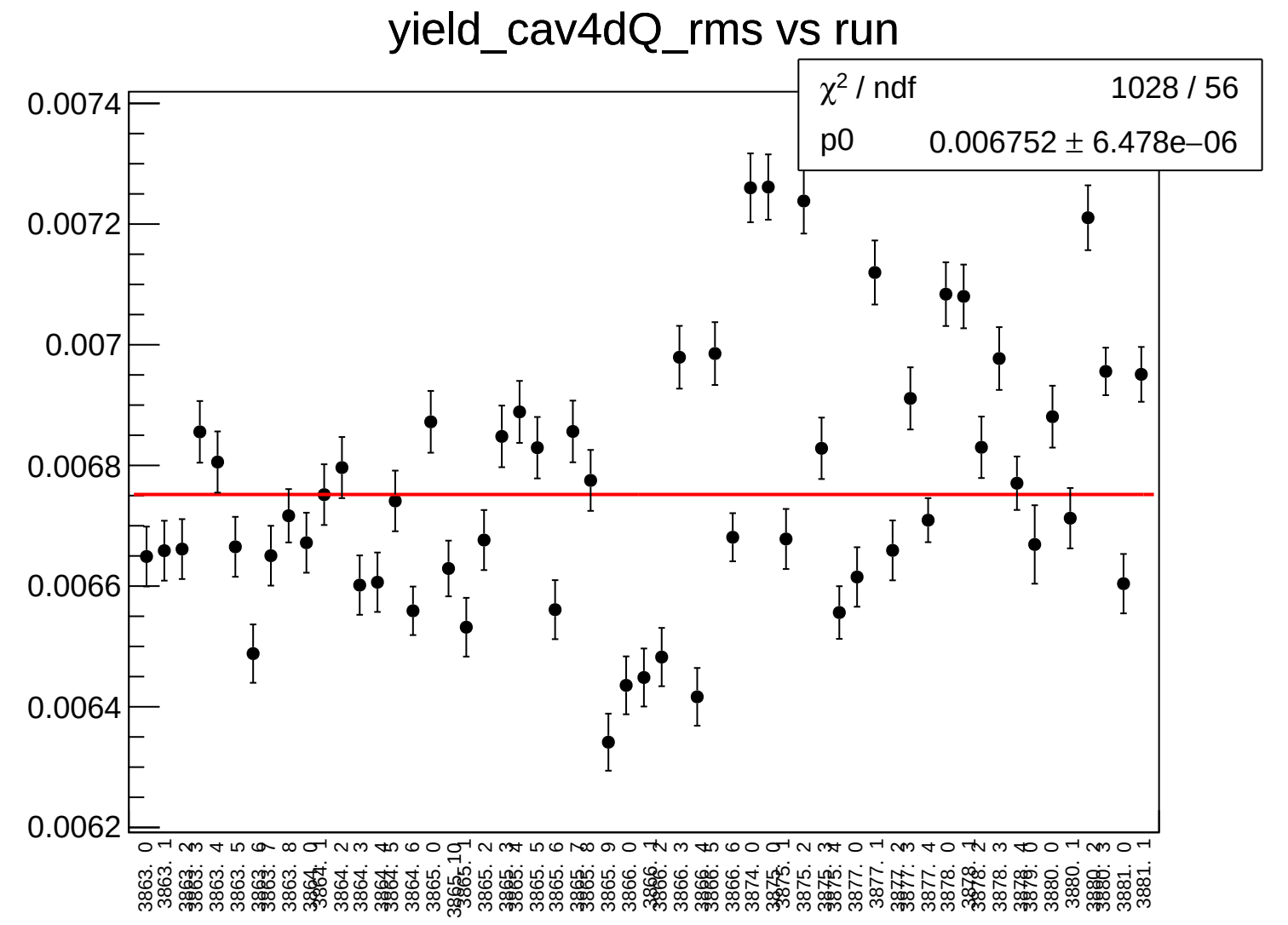

yield_cav4cQ_mean vs run
χ² / ndf 1.612e+06 / 56
p0 69.95 ± 0.000298
pull
Entries 57
Mean −319.5
Std Dev 344.9

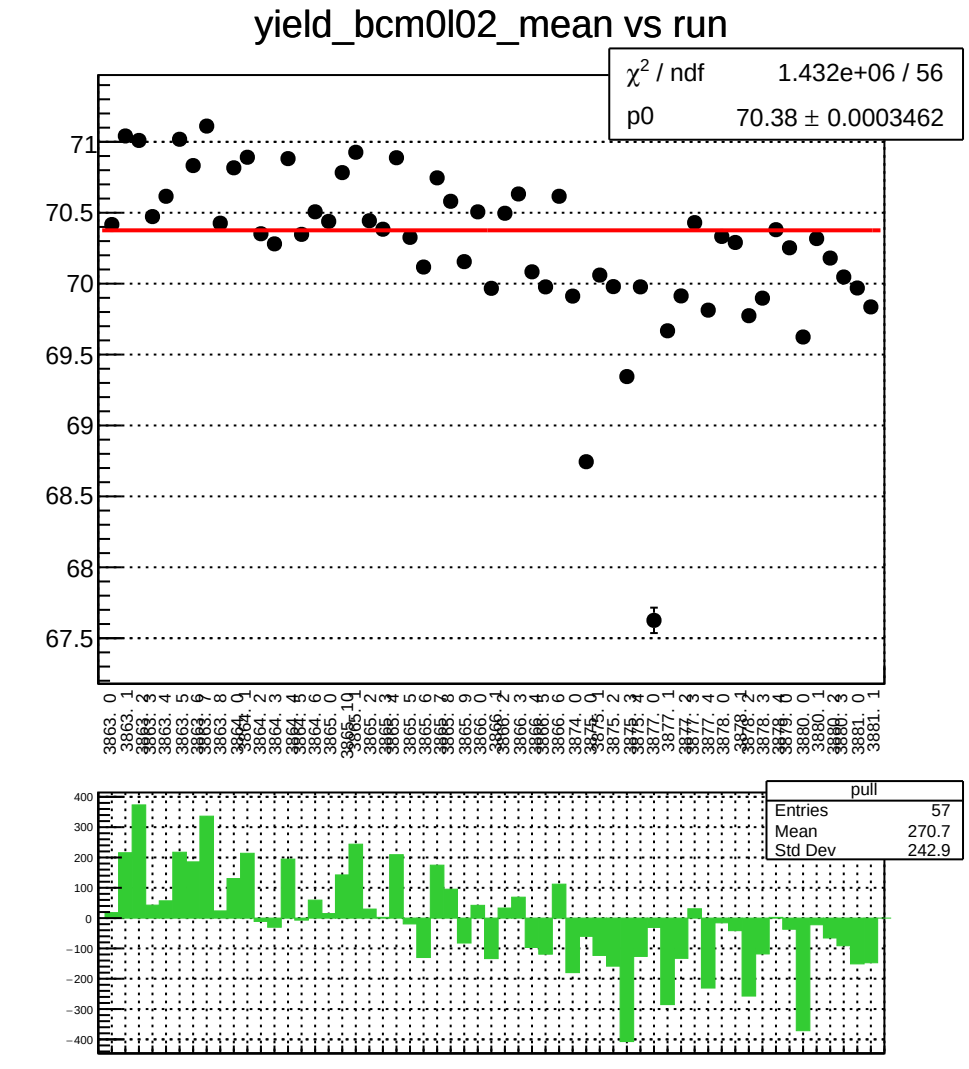

pull1D
Entries 57
Mean −3.34
Std Dev 0

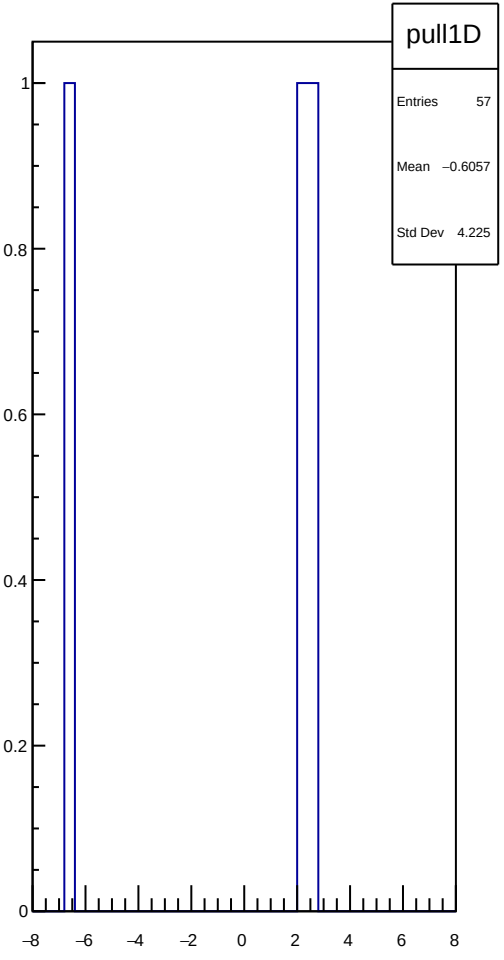

yield_cav4cQ_rms vs run
χ² / ndf 1.449e+05 / 56
p0 0.2046 ± 0.0002107
9
8
7
6
5
4
3
2
1
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

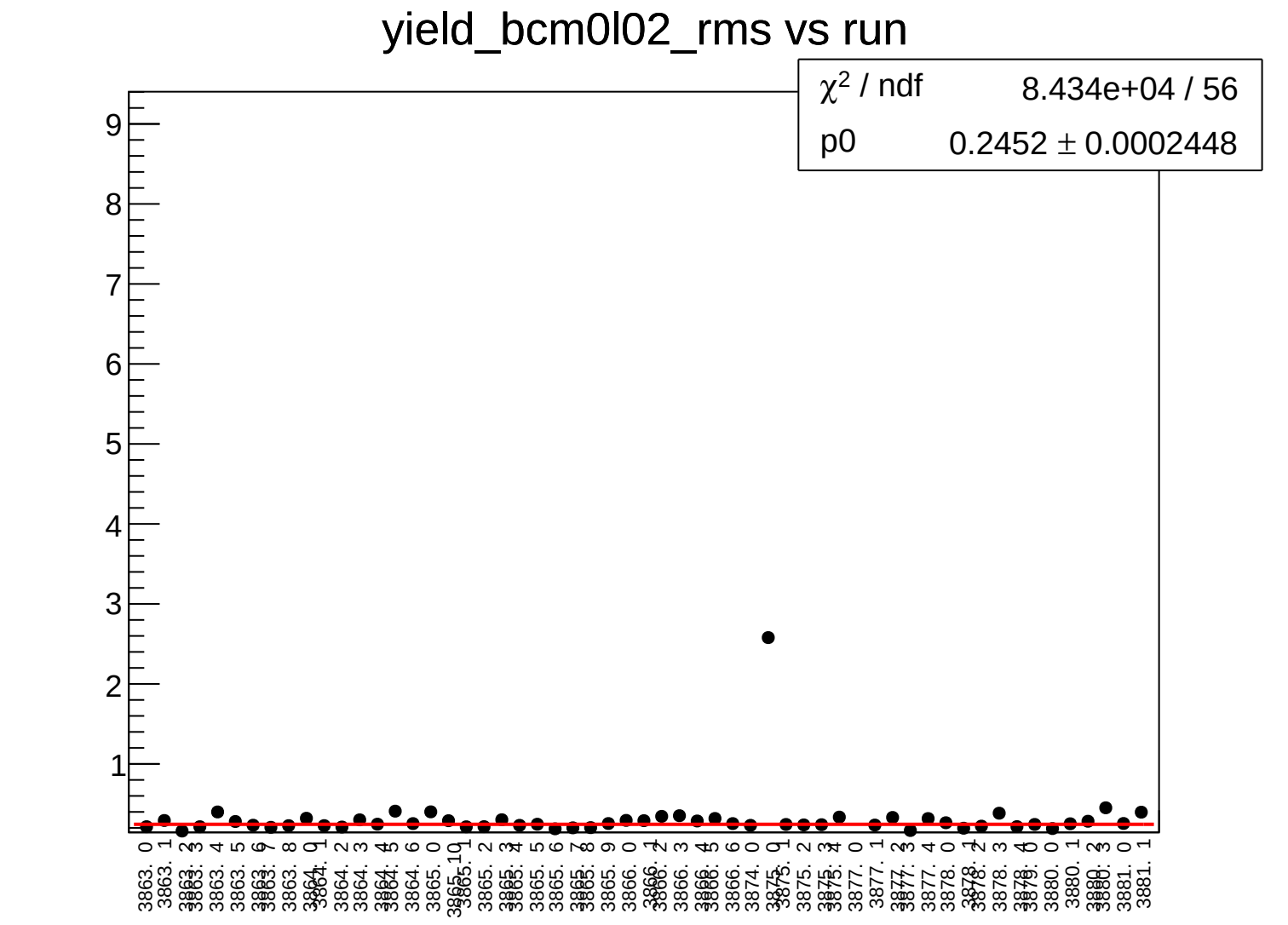

yield_cav4dQ_mean vs run
χ² / ndf 1.267e+05 / 56
p0 379 ± 9.161e−06
379.044
379.042
379.04
379.038
379.036
379.034
379.032
pull
Entries 57
Mean −823
Std Dev 849.6
80
60
40
20
0
−20
−40
−60
−80

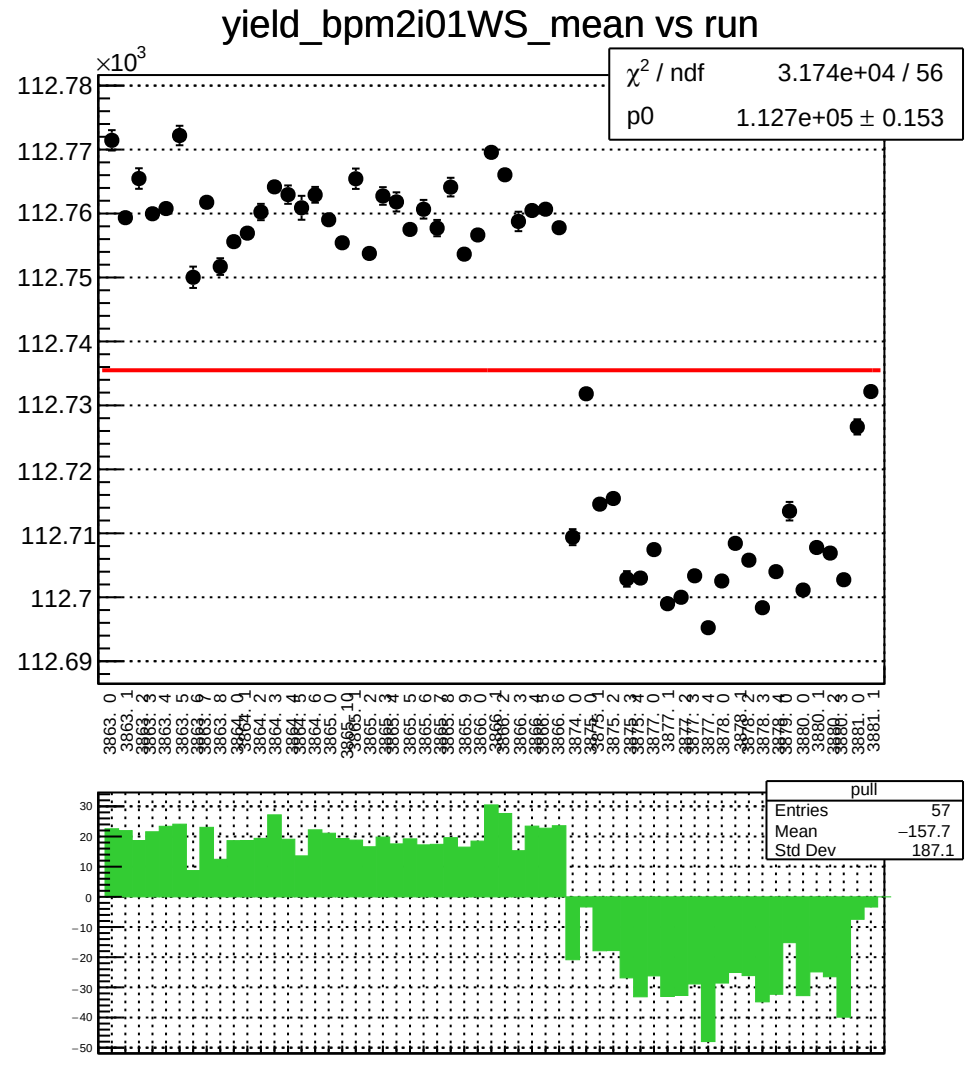

pull1D
Entries 57
Mean −4.521
Std Dev 2.255
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

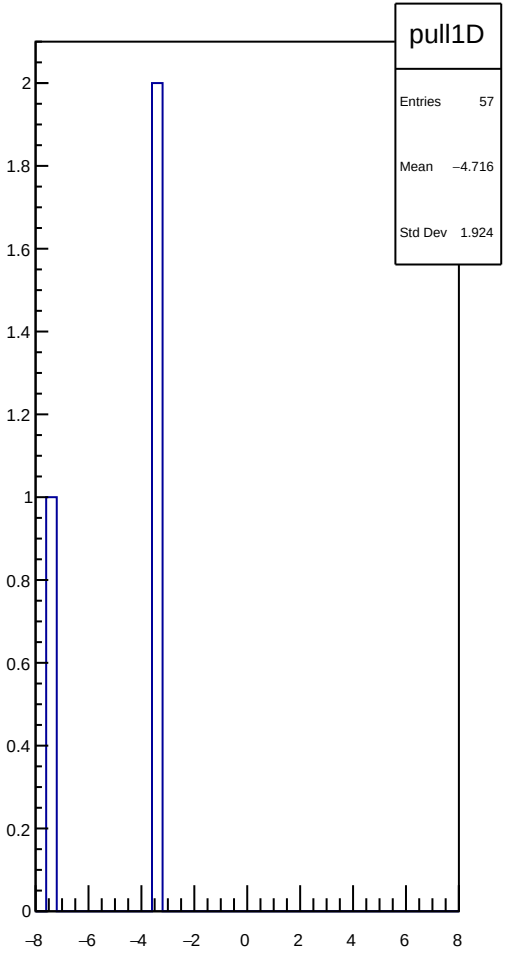

yield_cav4dQ_rms vs run
χ² / ndf 1028 / 56
p0 0.006752 ± 6.478e−06
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062

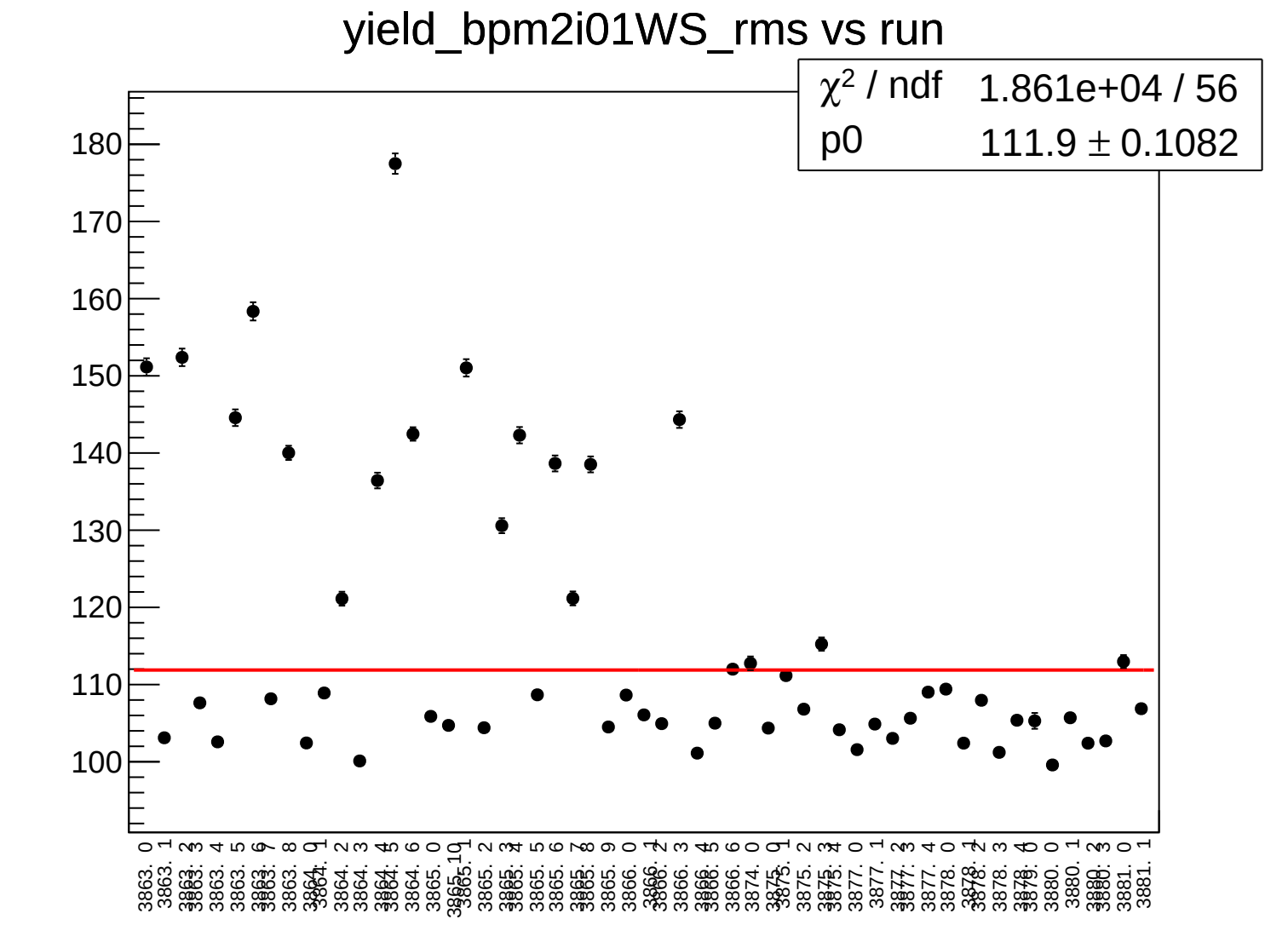

yield_bcm0l02_mean vs run
χ² / ndf 1.432e+06 / 56
p0 70.38 ± 0.0003462
pull
Entries 57
Mean 270.7
Std Dev 242.9

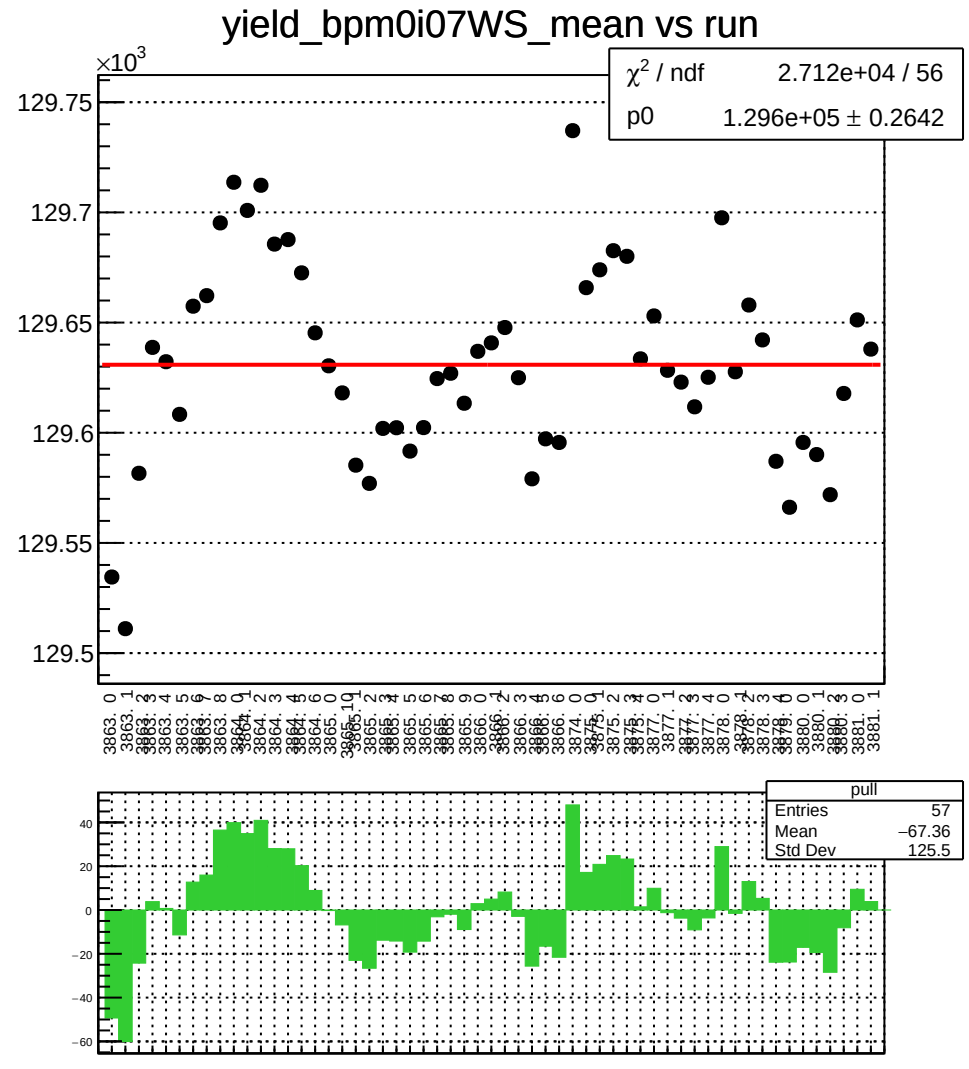

pull1D
Entries 57
Mean −0.6057
Std Dev 4.225

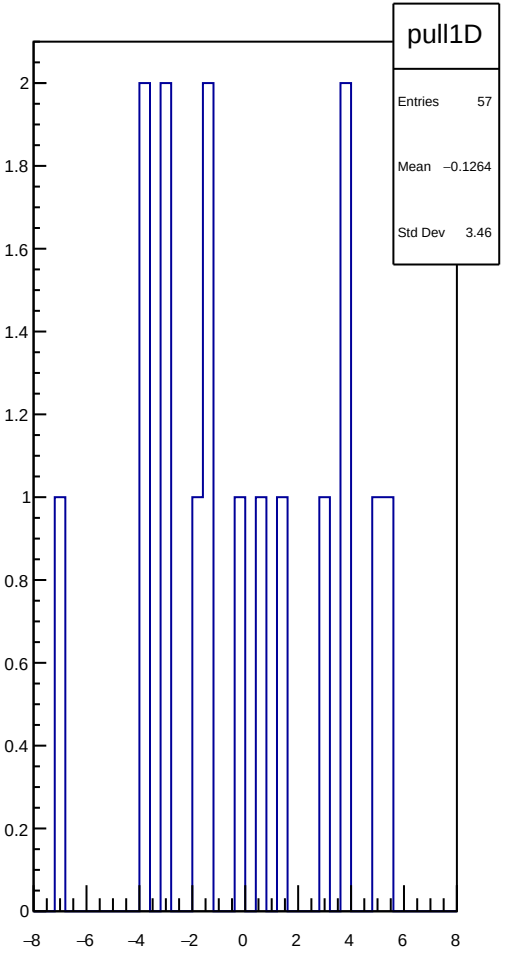

yield_bcm0l02_rms vs run
χ² / ndf 8.434e+04 / 56
p0 0.2452 ± 0.0002448
9
8
7
6
5
4
3
2
1
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

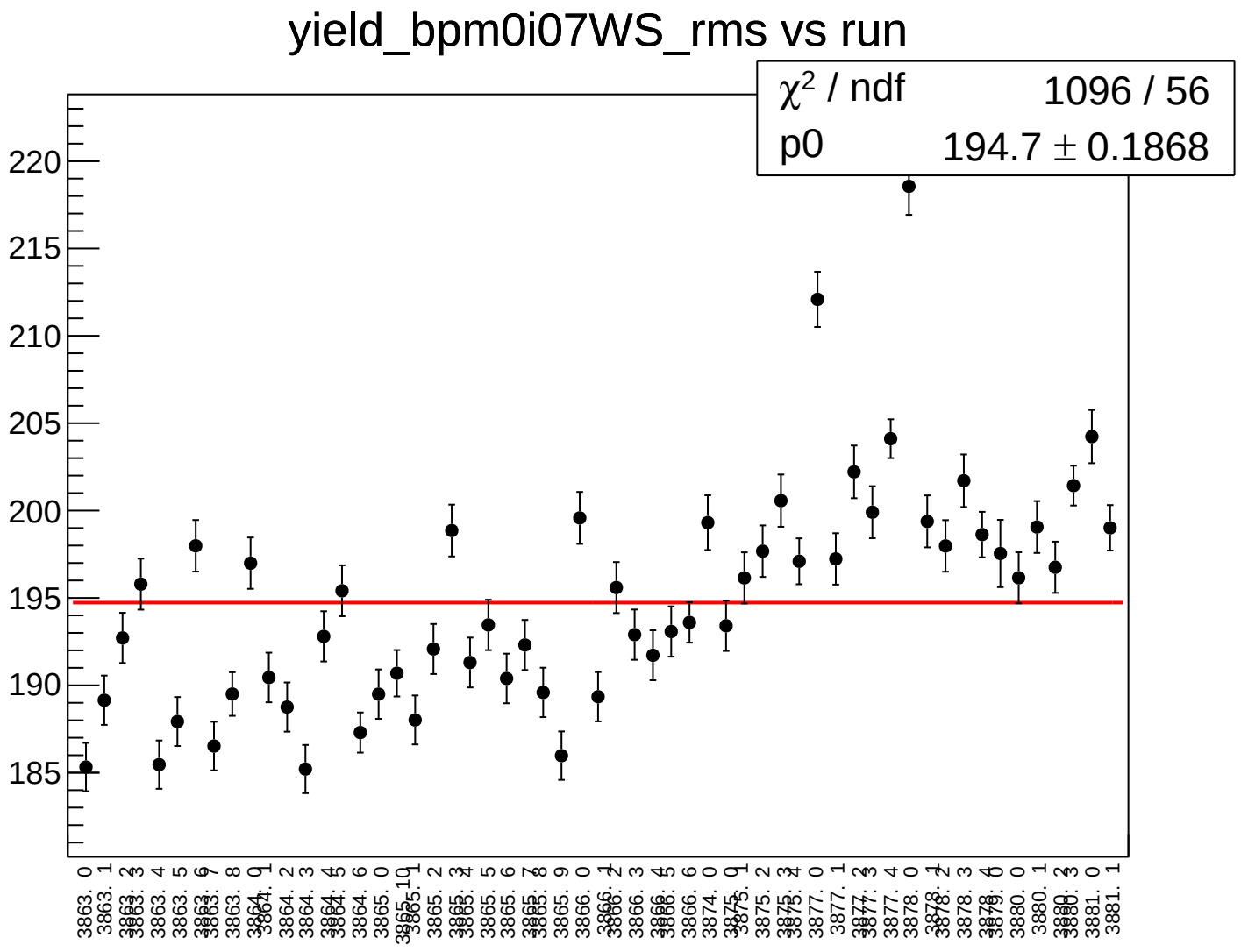

yield_bpm2i01WS_mean vs run
×10^3
112.78
112.77
112.76
112.75
112.74
112.73
112.72
112.71
112.7
112.69
χ² / ndf 3.174e+04 / 56
p0 1.127e+05 ± 0.153
pull
Entries 57
Mean −157.7
Std Dev 187.1
30
20
10
0
−10
−20
−30
−40
−50

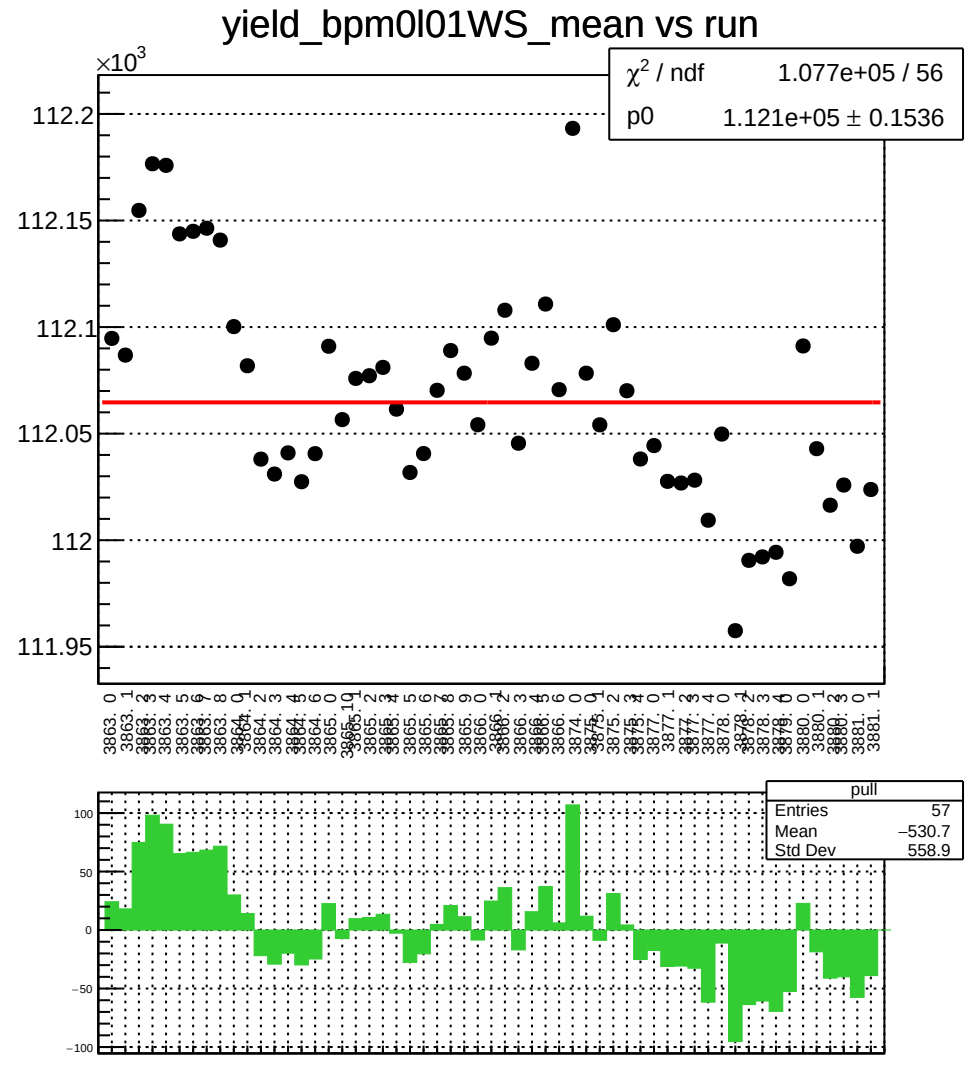

pull1D
Entries 57
Mean −4.716
Std Dev 1.924
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

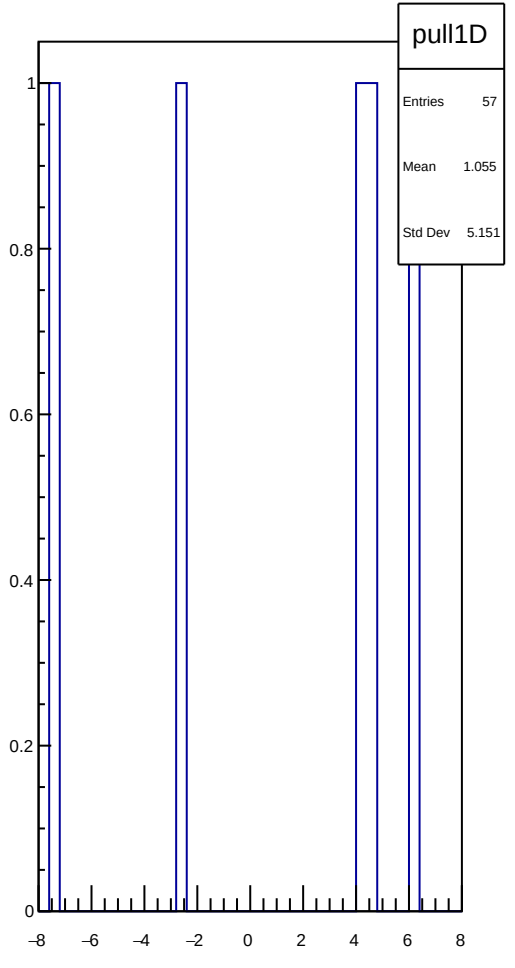

yield_bpm2i01WS_rms vs run
χ² / ndf 1.861e+04 / 56
p0 111.9 ± 0.1082
180
170
160
150
140
130
120
110
100

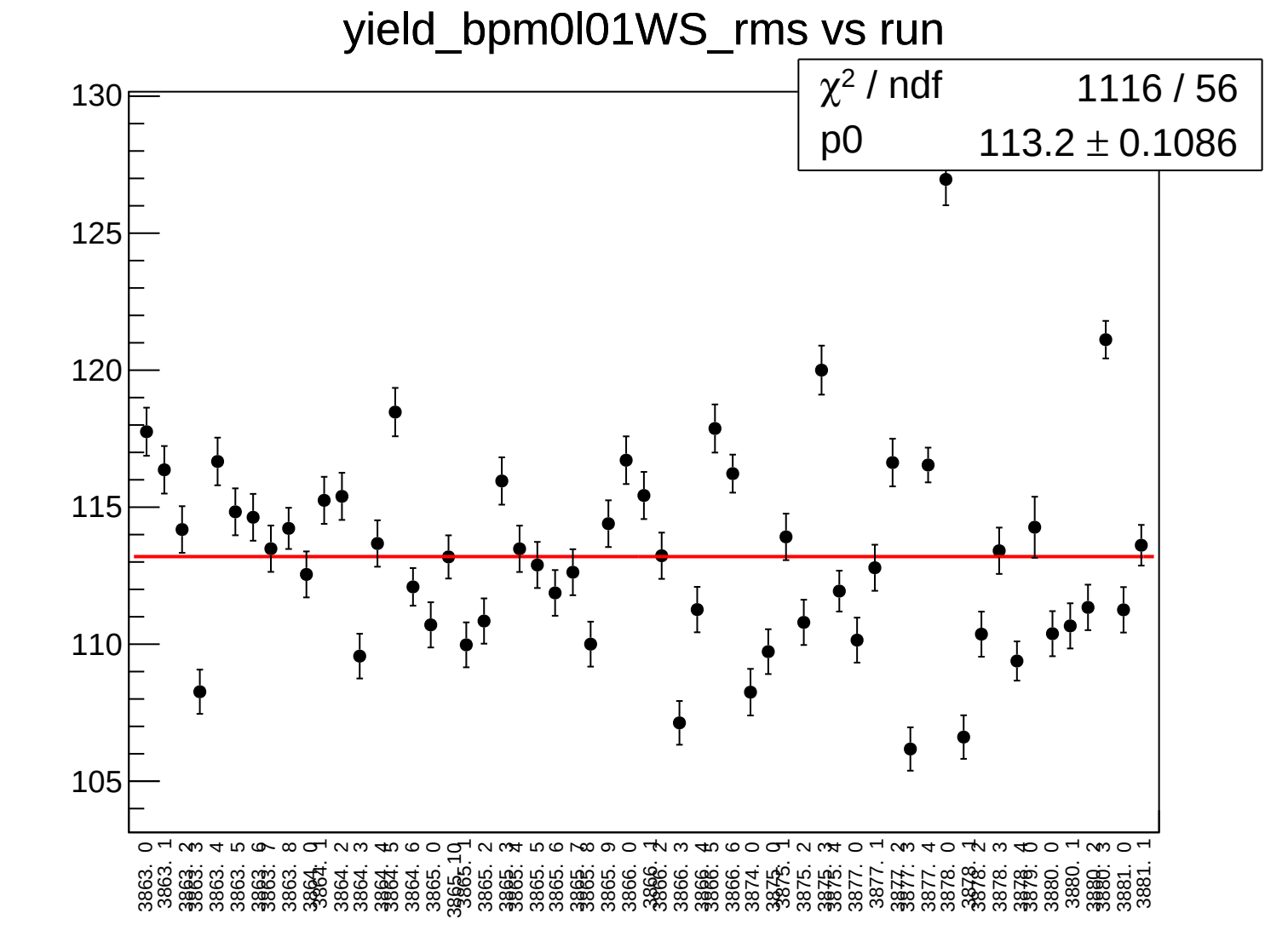

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 2.712e+04 / 56
p0 1.296e+05 ± 0.2642
129.75
129.7
129.65
129.6
129.55
129.5
pull
Entries 57
Mean −67.36
Std Dev 125.5
40
20
0
−20
−40
−60

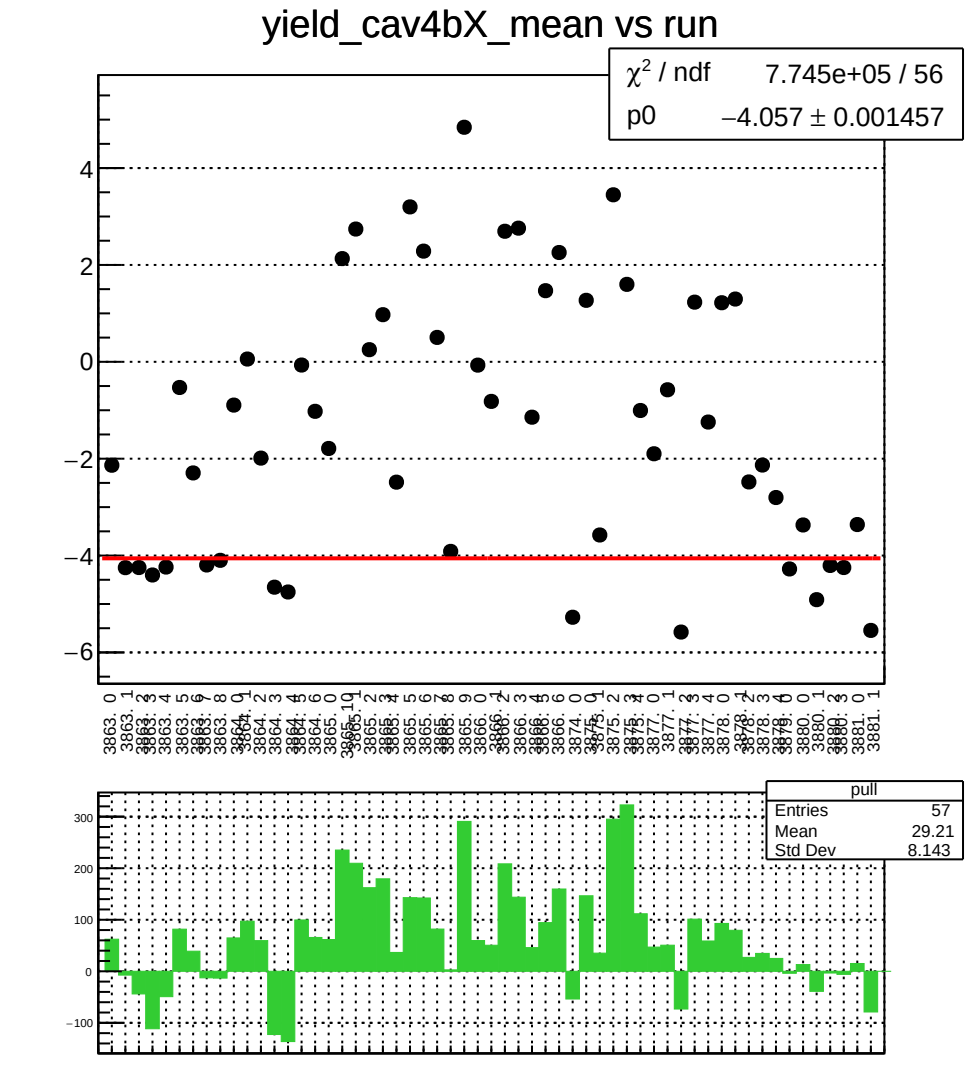

pull1D
Entries 57
Mean −0.1264
Std Dev 3.46
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

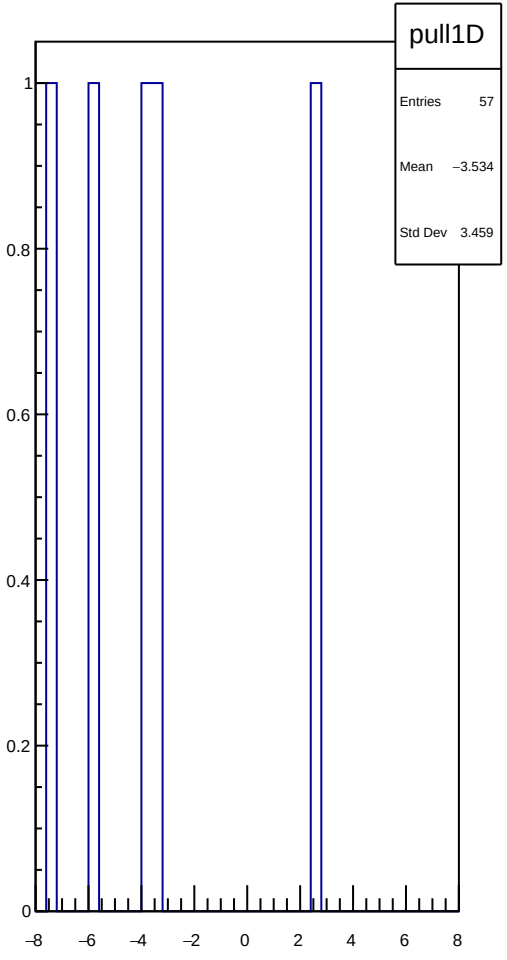

yield_bpm0i07WS_rms vs run
χ² / ndf 1096 / 56
p0 194.7 ± 0.1868
220
215
210
205
200
195
190
185
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

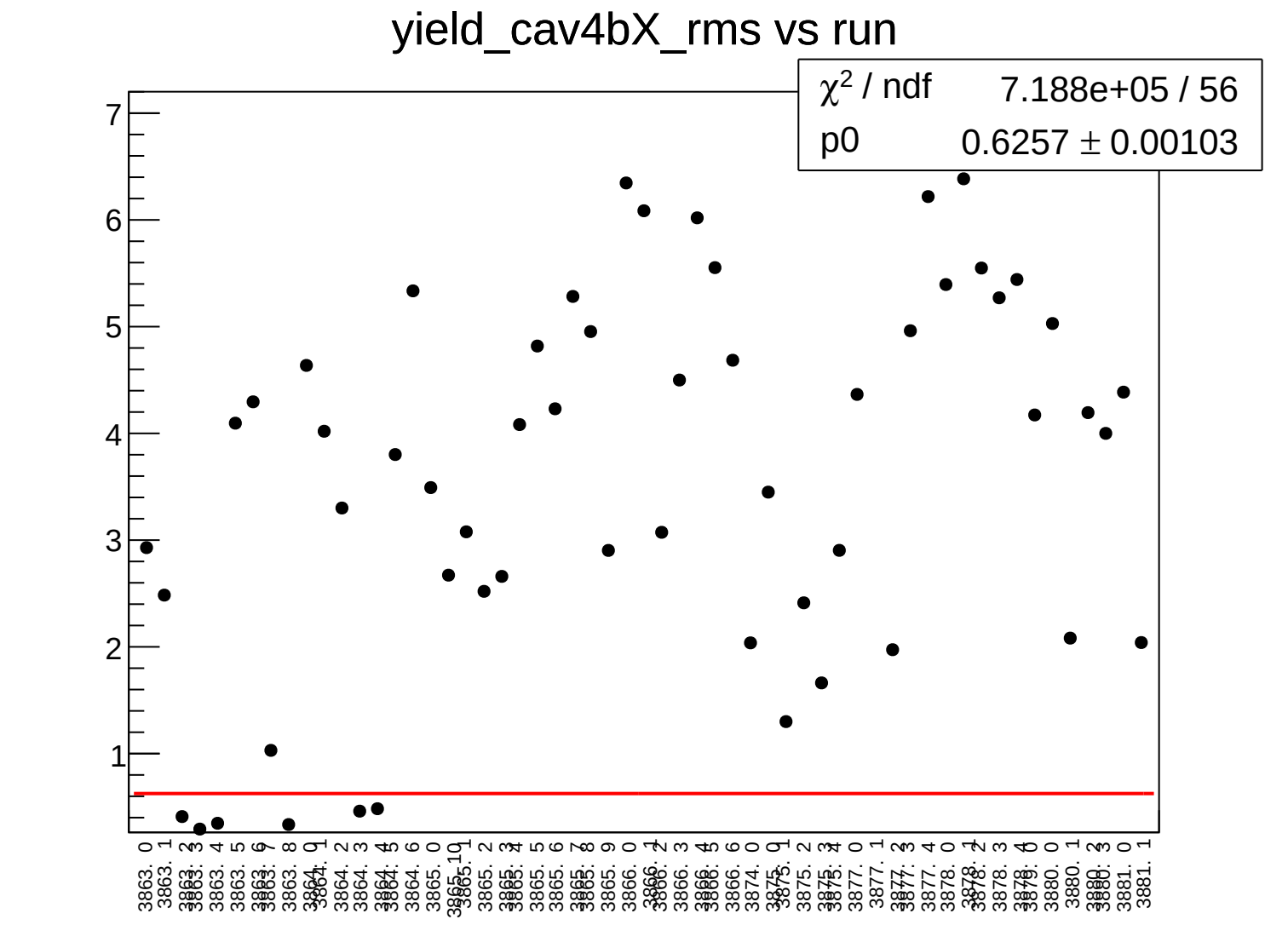

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.077e+05 / 56
p0 1.121e+05 ± 0.1536
112.2
112.15
112.1
112.05
112
111.95
pull
Entries 57
Mean −530.7
Std Dev 558.9
100
50
0
−50
−100

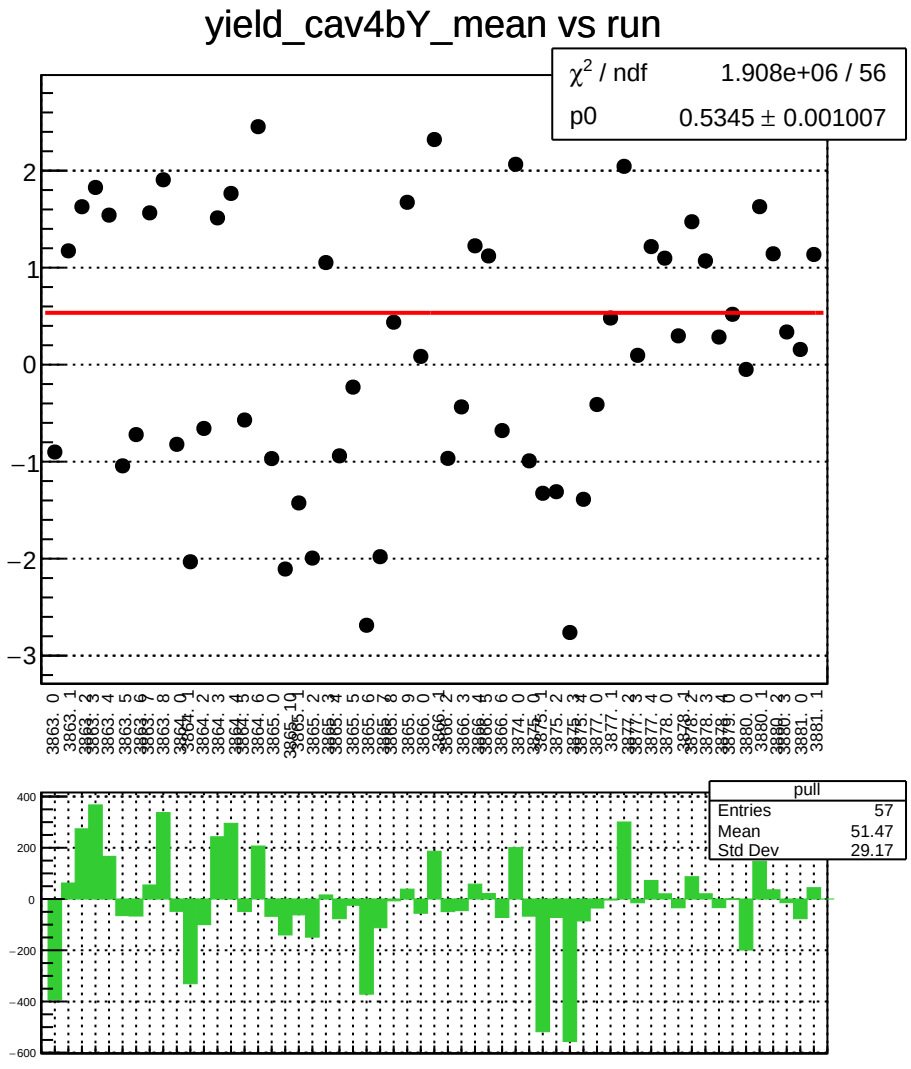

pull1D
Entries 57
Mean 1.055
Std Dev 5.151
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

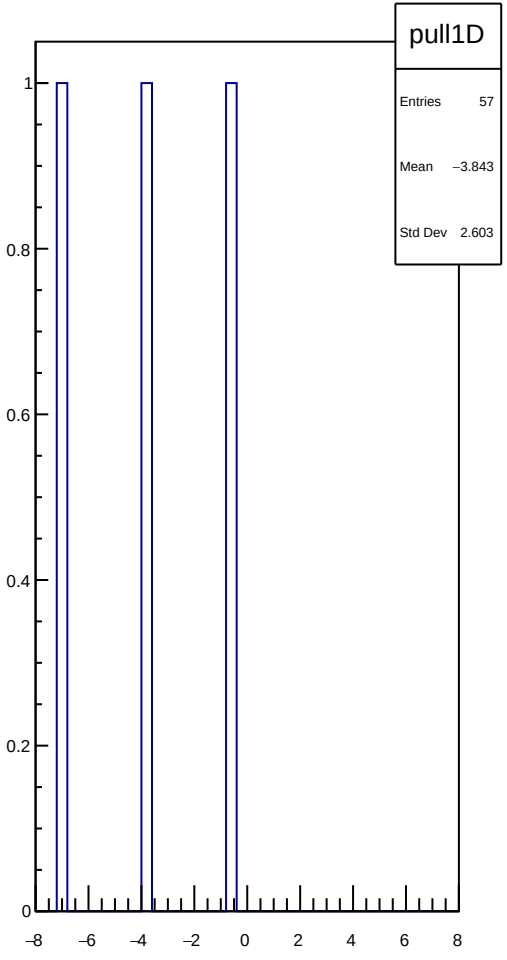

yield_bpm0l01WS_rms vs run
χ² / ndf 1116 / 56
p0 113.2 ± 0.1086
130
125
120
115
110
105

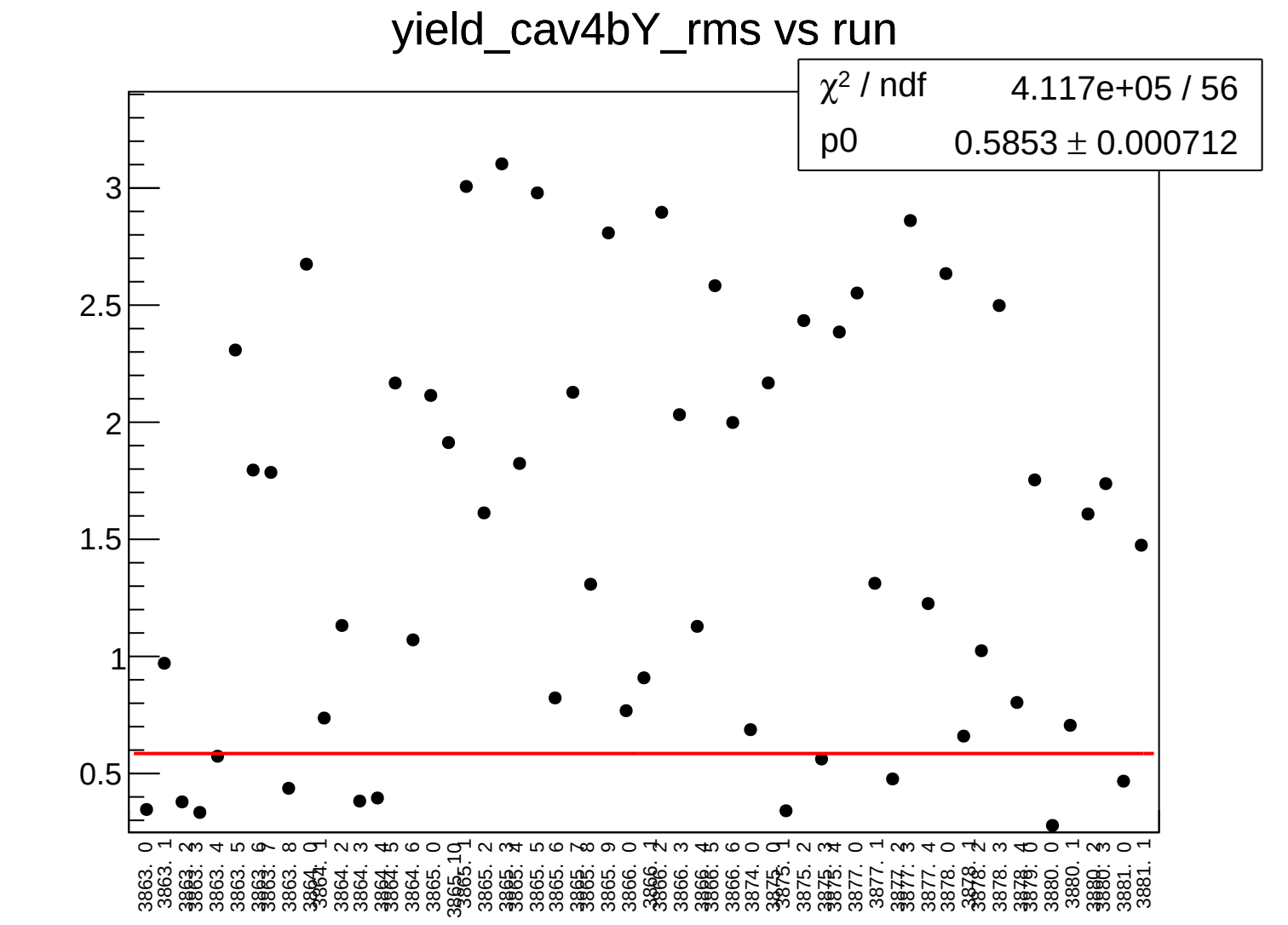

yield_cav4bX_mean vs run
χ² / ndf 7.745e+05 / 56
p0 −4.057 ± 0.001457
pull
Entries 57
Mean 29.21
Std Dev 8.143

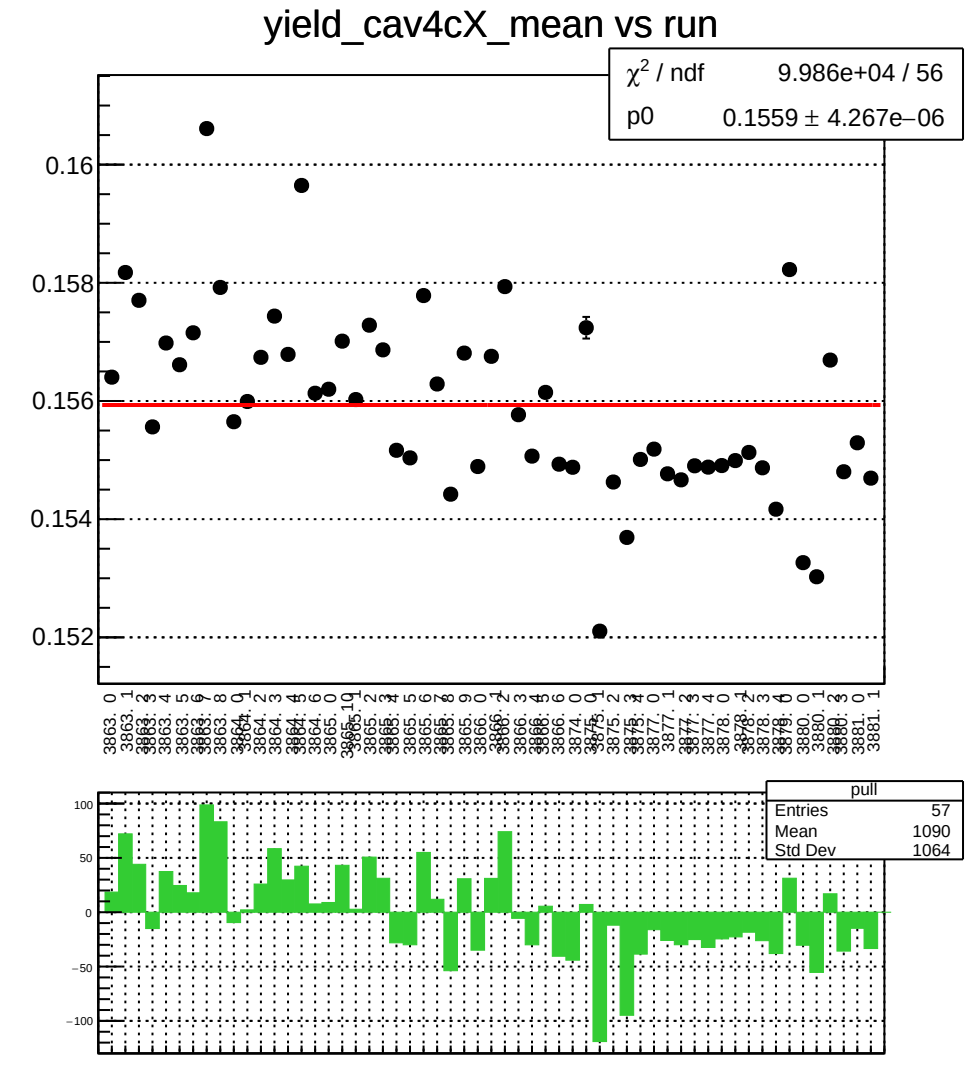

pull1D
Entries 57
Mean −3.534
Std Dev 3.459

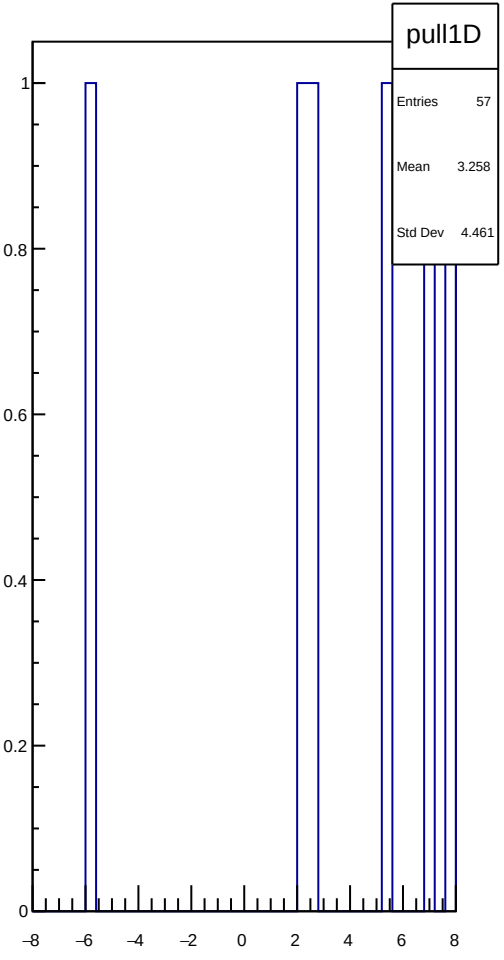

yield_cav4bX_rms vs run
χ^2 / ndf 7.188e+05 / 56
p0 0.6257 ± 0.00103
7
6
5
4
3
2
1
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

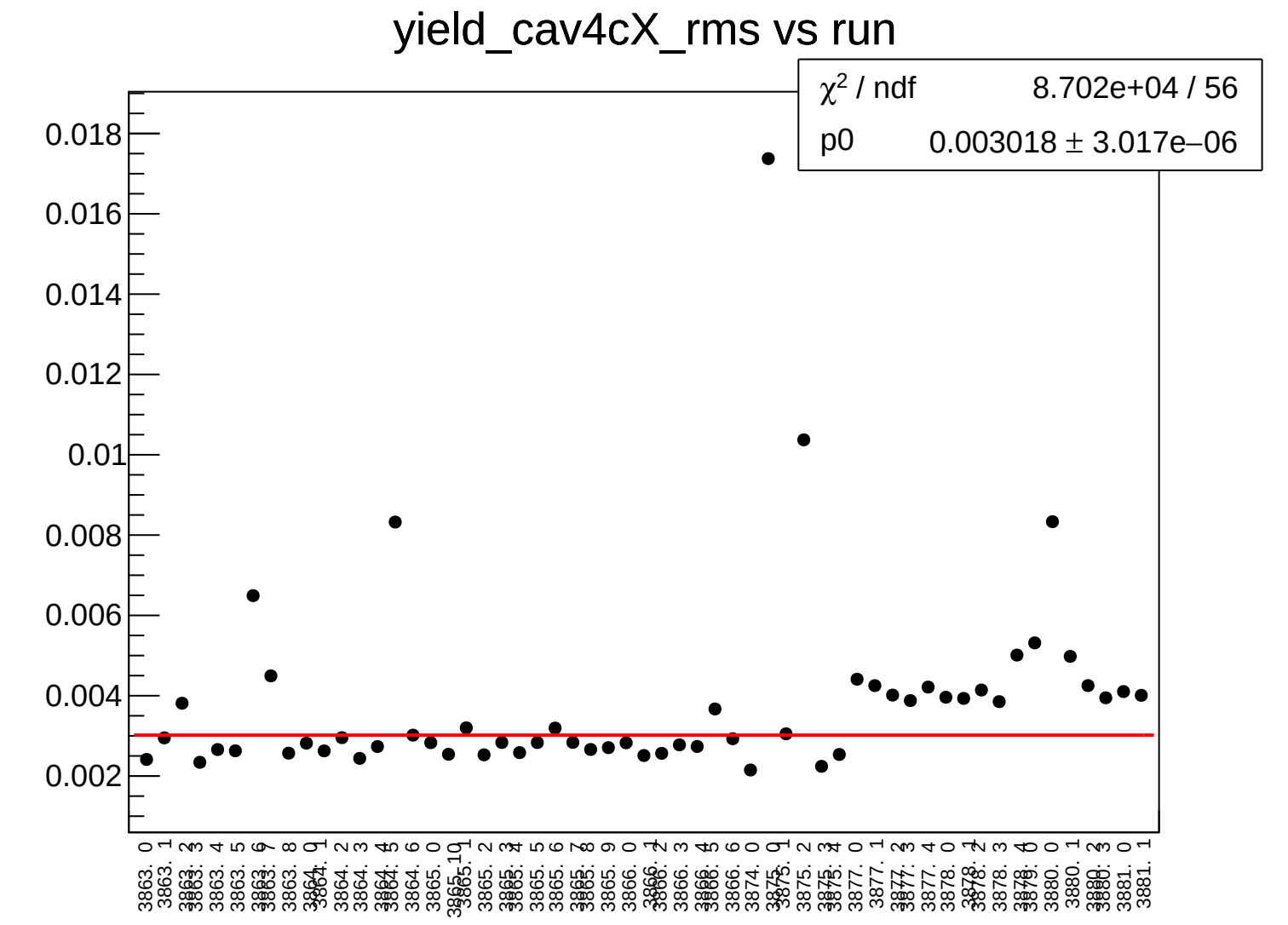

yield_cav4bY_mean vs run
χ² / ndf 1.908e+06 / 56
p0 0.5345 ± 0.001007
pull
Entries 57
Mean 51.47
Std Dev 29.17

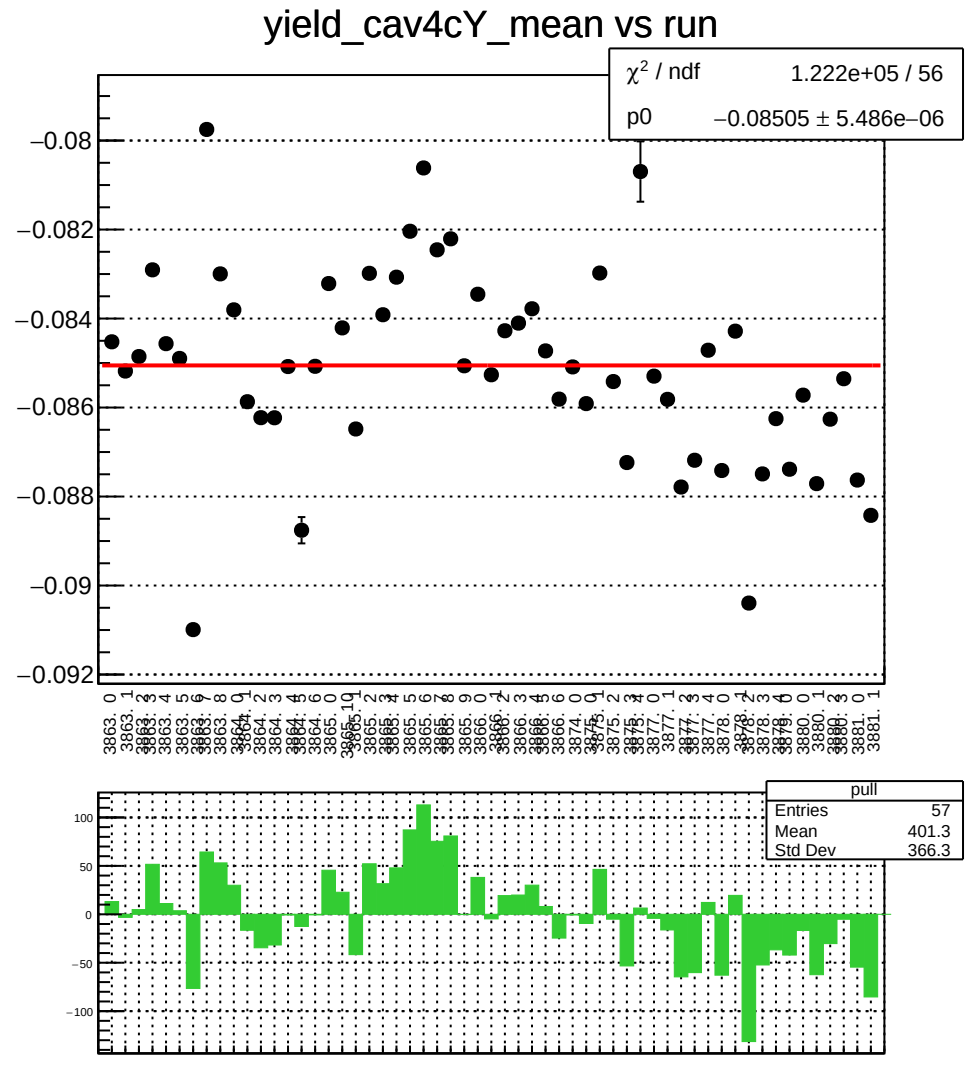

pull1D
Entries 57
Mean −3.843
Std Dev 2.603

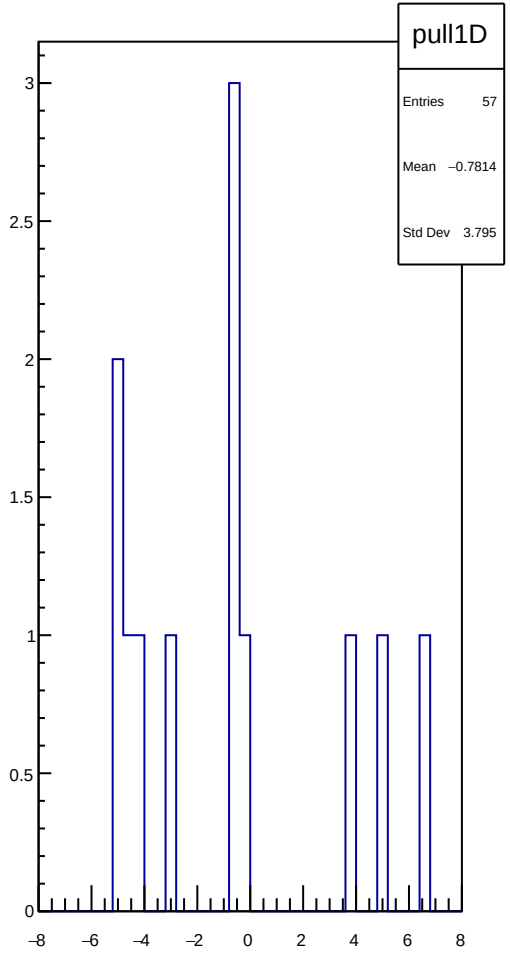

yield_cav4bY_rms vs run
χ² / ndf 4.117e+05 / 56
p0 0.5853 ± 0.000712
3
2.5
2
1.5
1
0.5

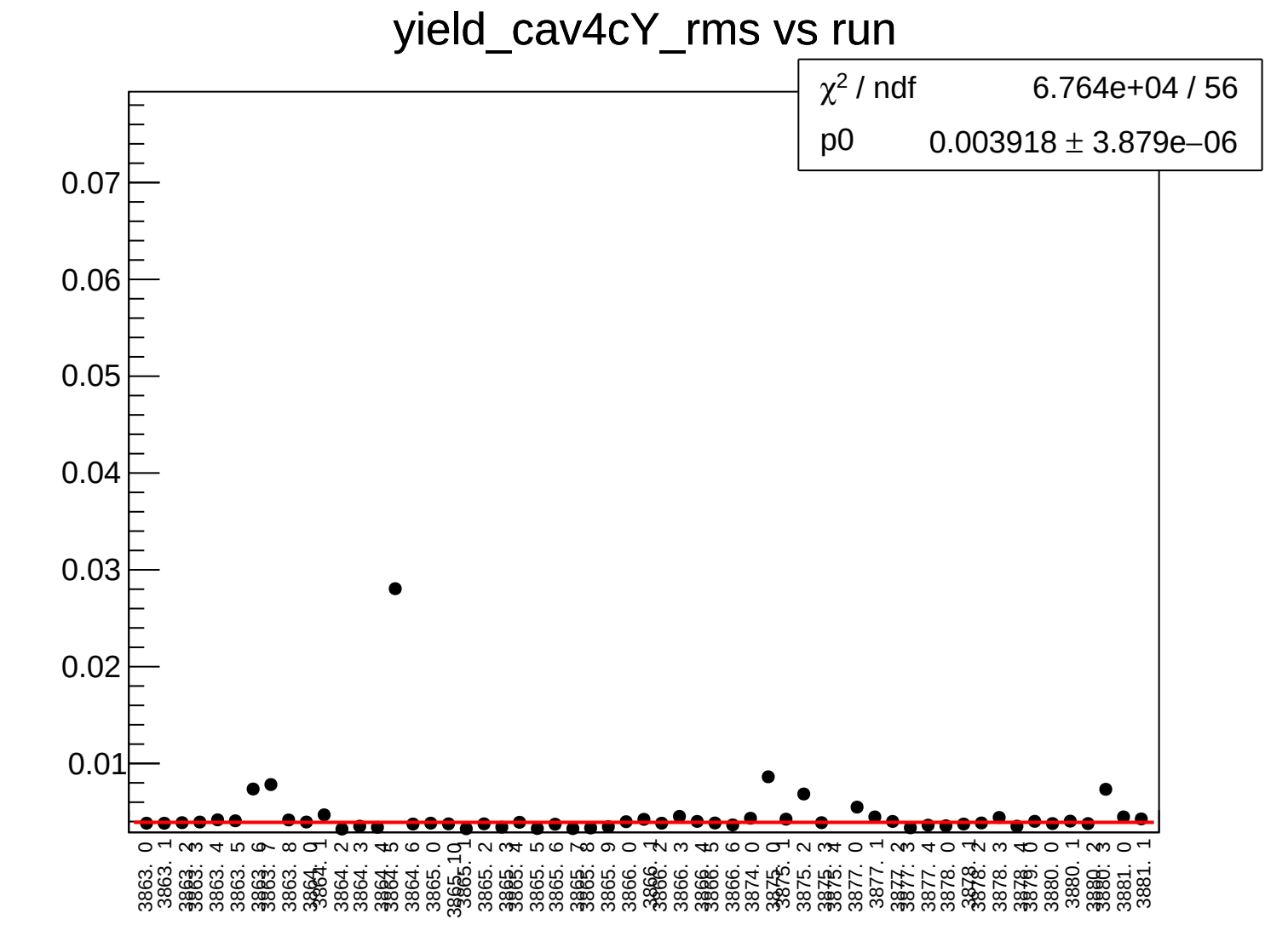

yield_cav4cX_mean vs run
χ² / ndf 9.986e+04 / 56
p0 0.1559 ± 4.267e−06
0.16
0.158
0.156
0.154
0.152
pull
Entries 57
Mean 1090
Std Dev 1064
100
50
0
−50
−100

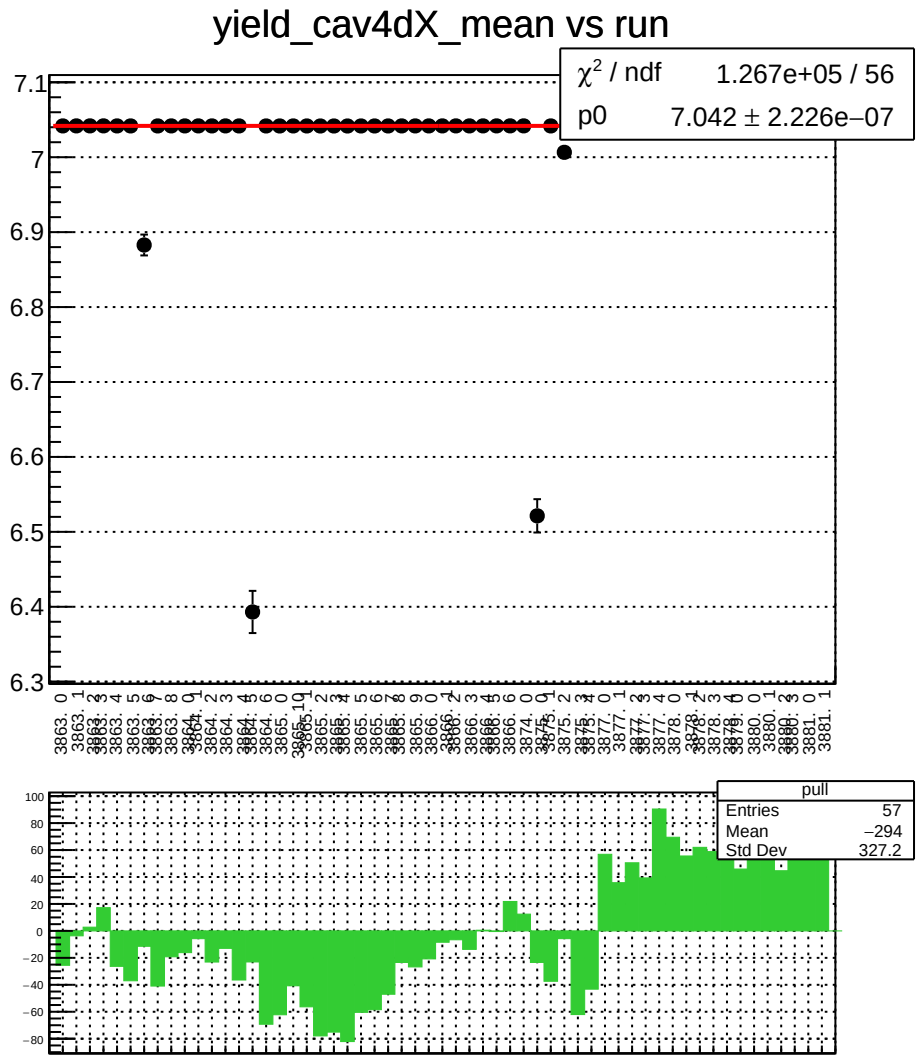

pull1D
Entries 57
Mean 3.258
Std Dev 4.461
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

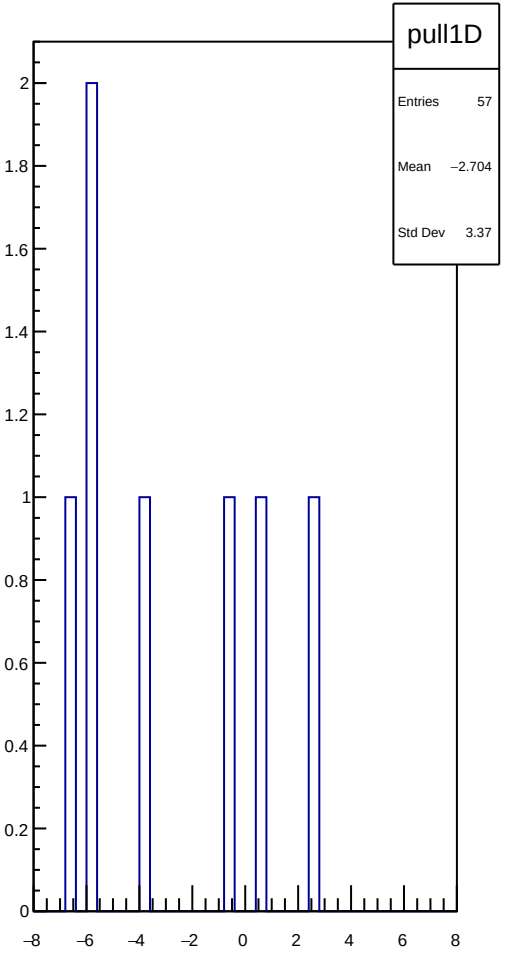

yield_cav4cX_rms vs run
χ² / ndf 8.702e+04 / 56
p0 0.003018 ± 3.017e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

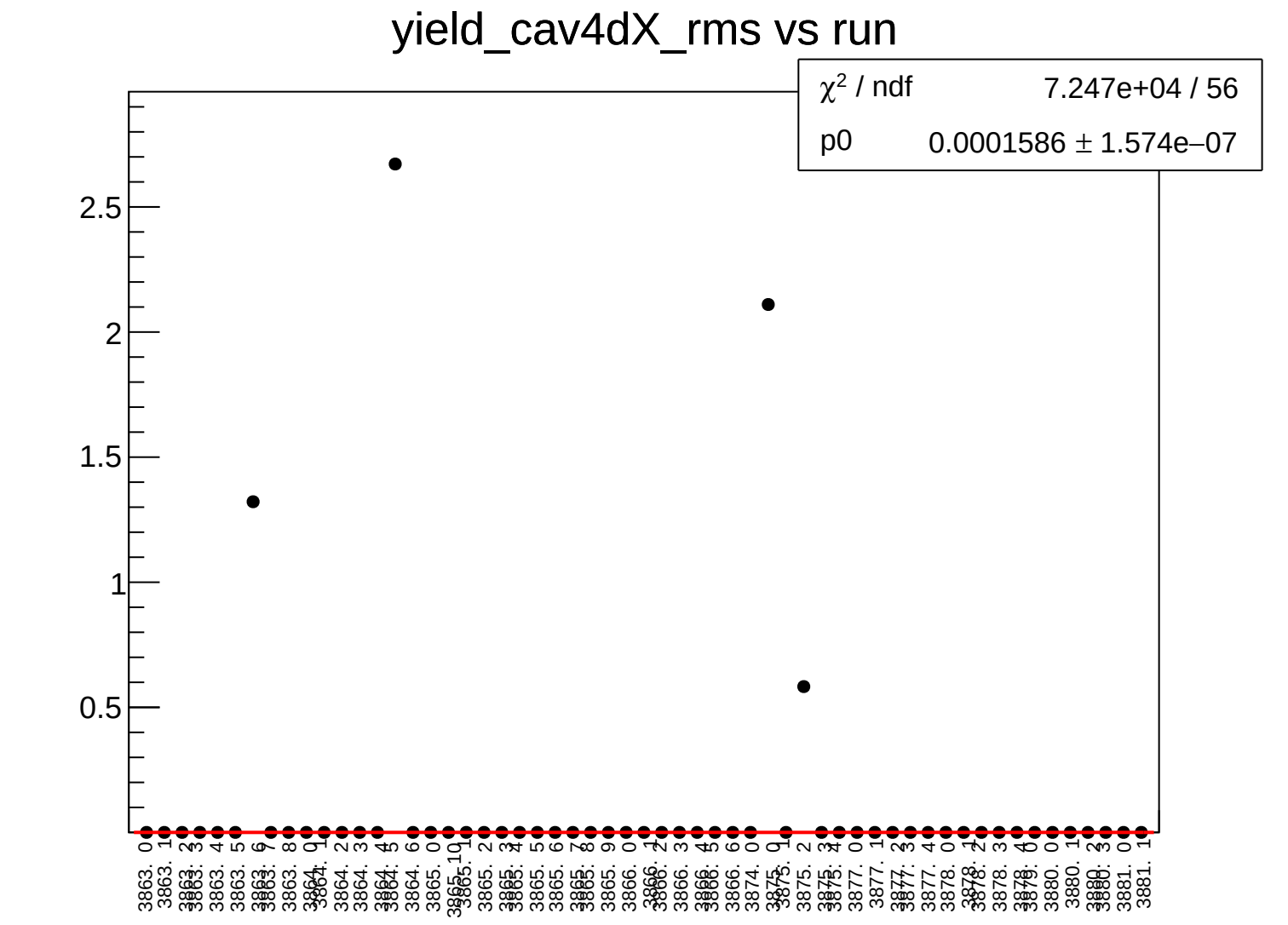

yield_cav4cY_mean vs run
χ² / ndf 1.222e+05 / 56
p0 −0.08505 ± 5.486e−06
pull
Entries 57
Mean 401.3
Std Dev 366.3

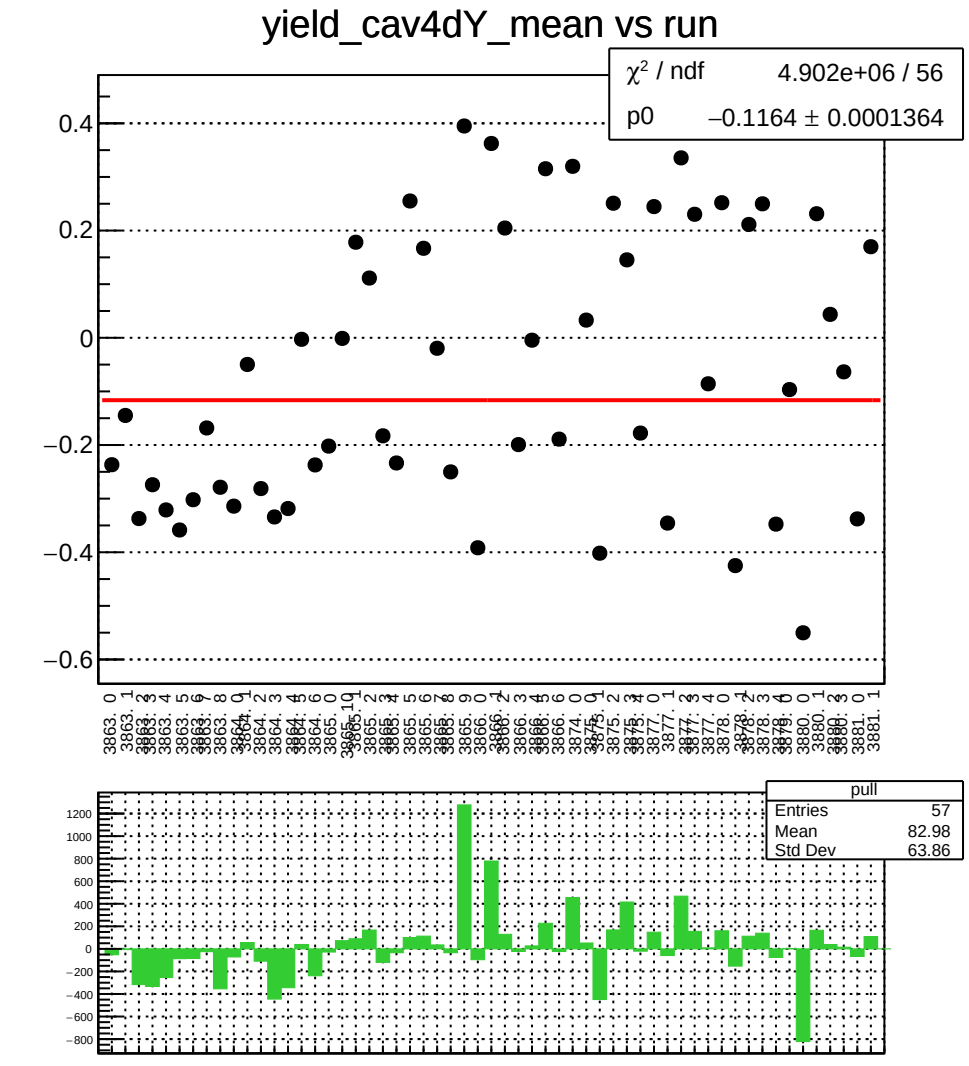

pull1D
Entries 57
Mean −0.7814
Std Dev 3.795

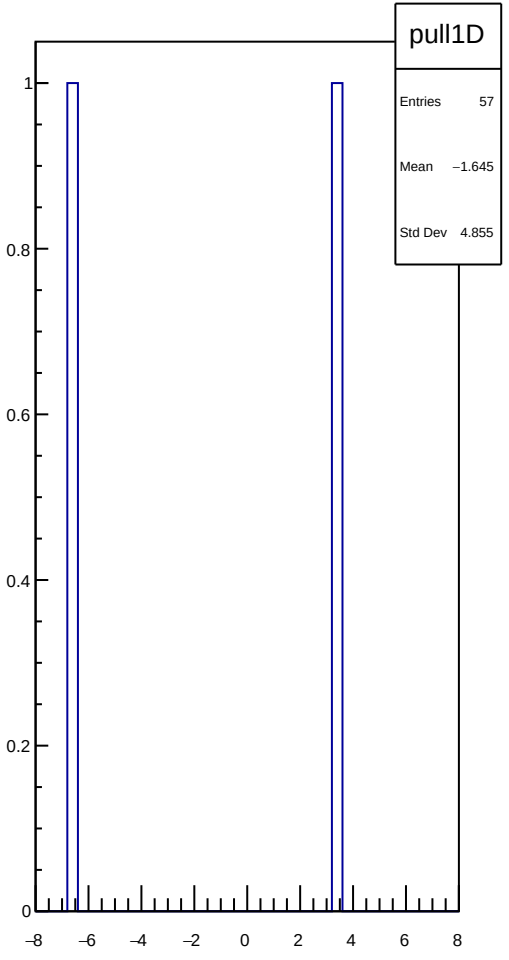

yield_cav4cY_rms vs run
χ² / ndf 6.764e+04 / 56
p0 0.003918 ± 3.879e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

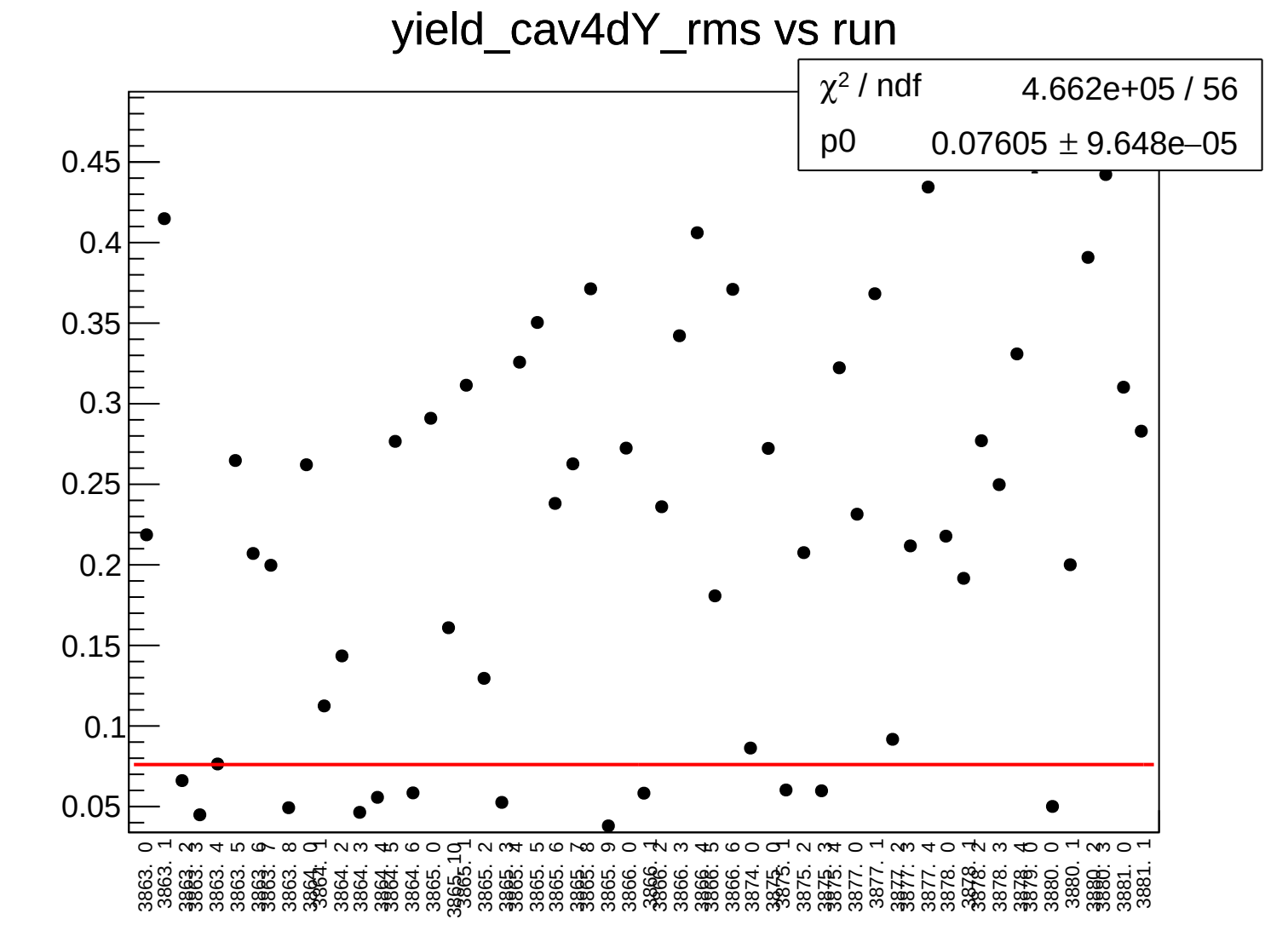

yield_cav4dX_mean vs run
χ² / ndf 1.267e+05 / 56
p0 7.042 ± 2.226e−07
pull
Entries 57
Mean −294
Std Dev 327.2

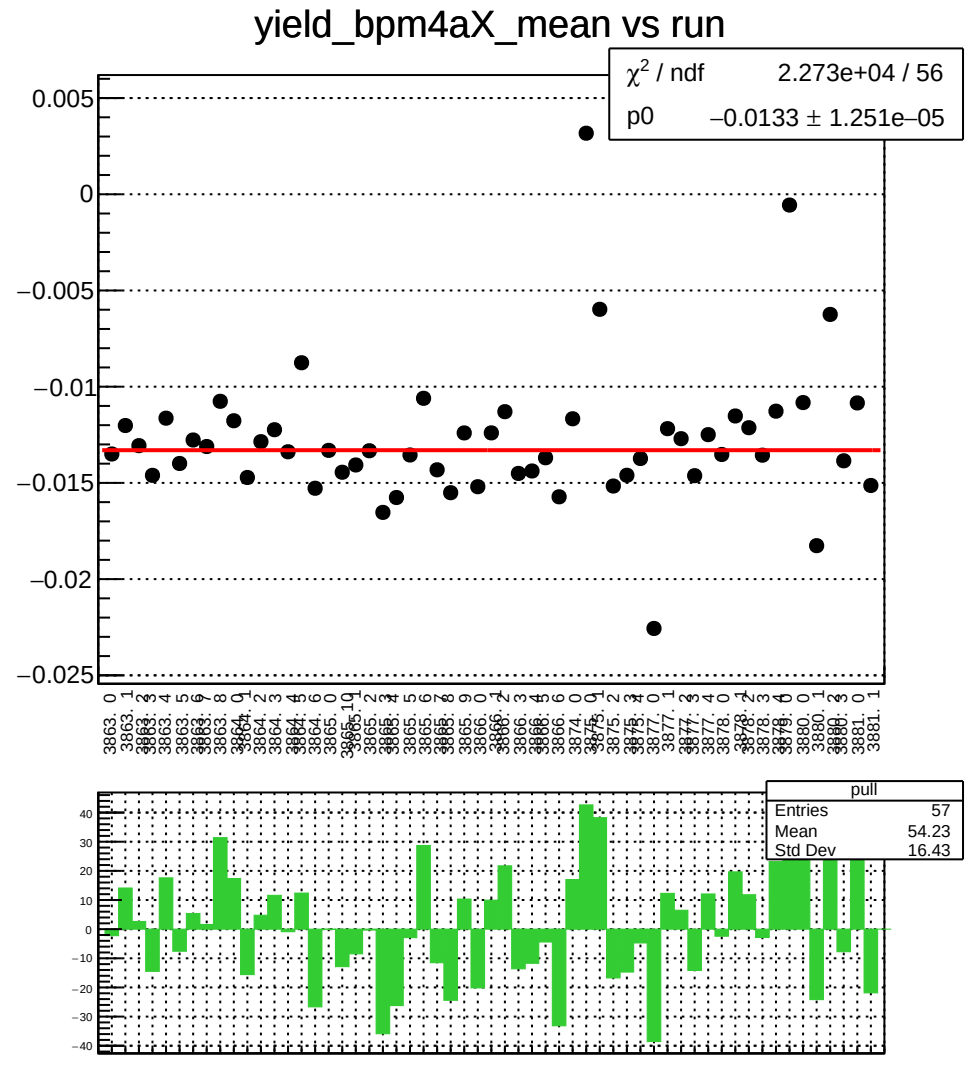

pull1D
Entries 57
Mean −2.704
Std Dev 3.37

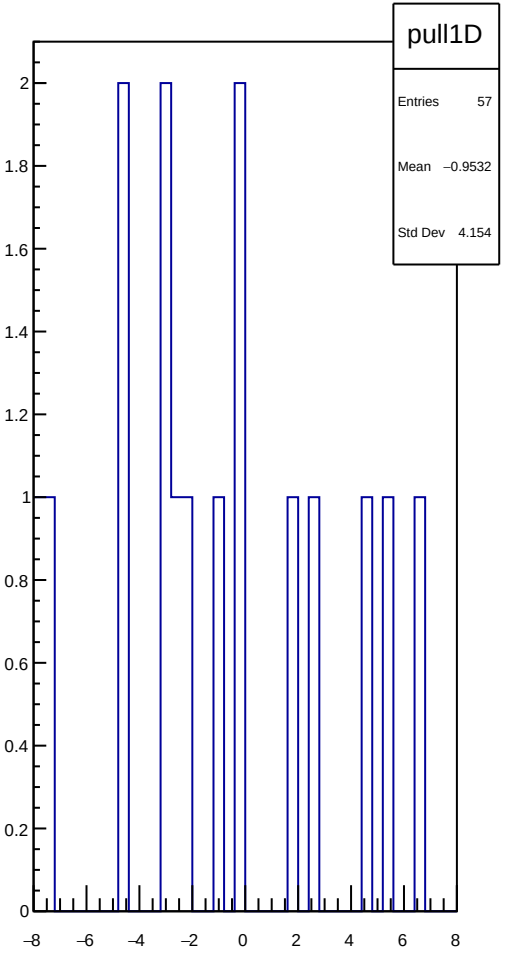

yield_cav4dX_rms vs run
χ^2 / ndf 7.247e+04 / 56
p0 0.0001586 ± 1.574e−07
2.5
2
1.5
1
0.5

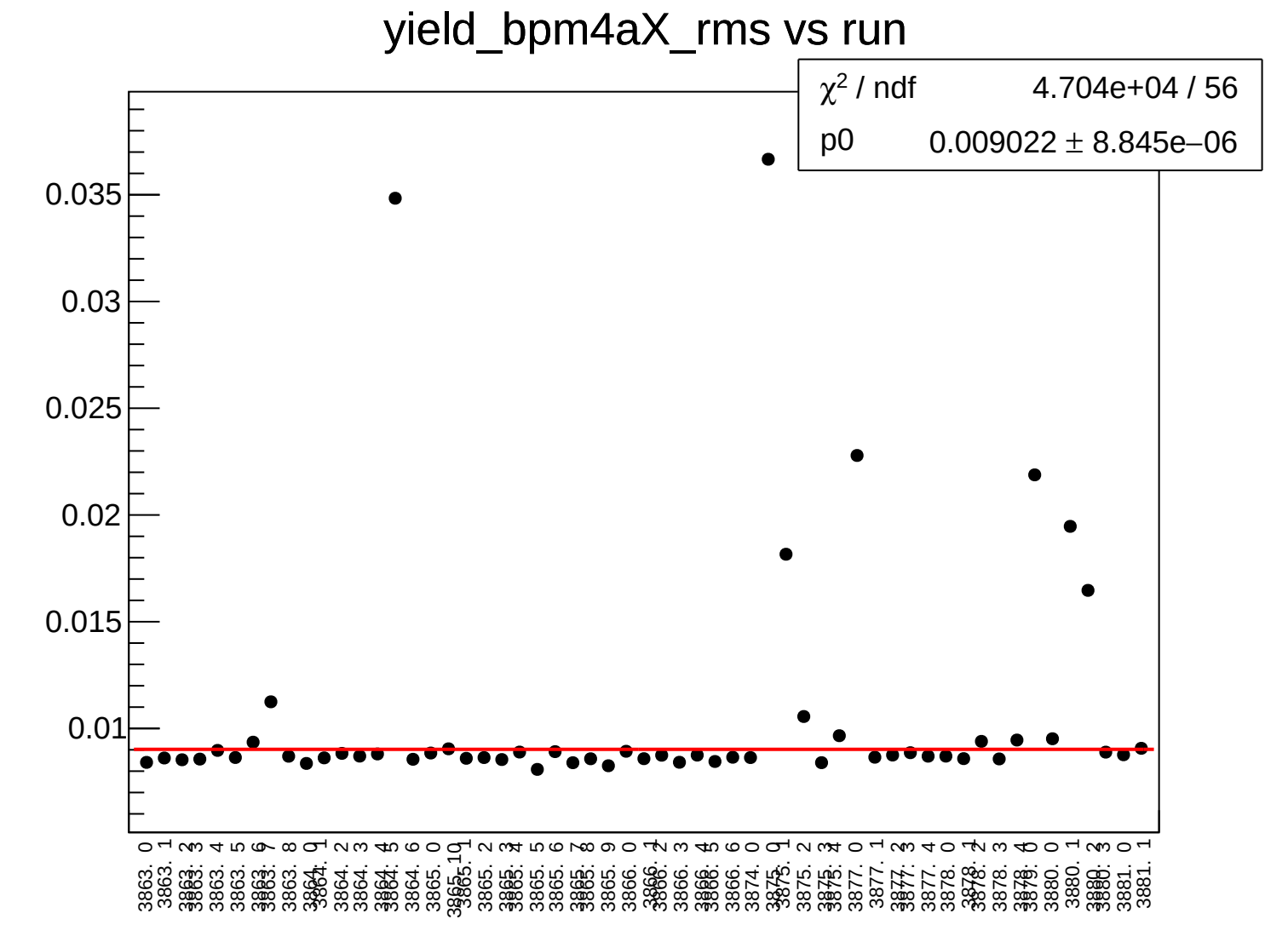

yield_cav4dY_mean vs run
χ² / ndf 4.902e+06 / 56
p0 −0.1164 ± 0.0001364
pull
Entries 57
Mean 82.98
Std Dev 63.86

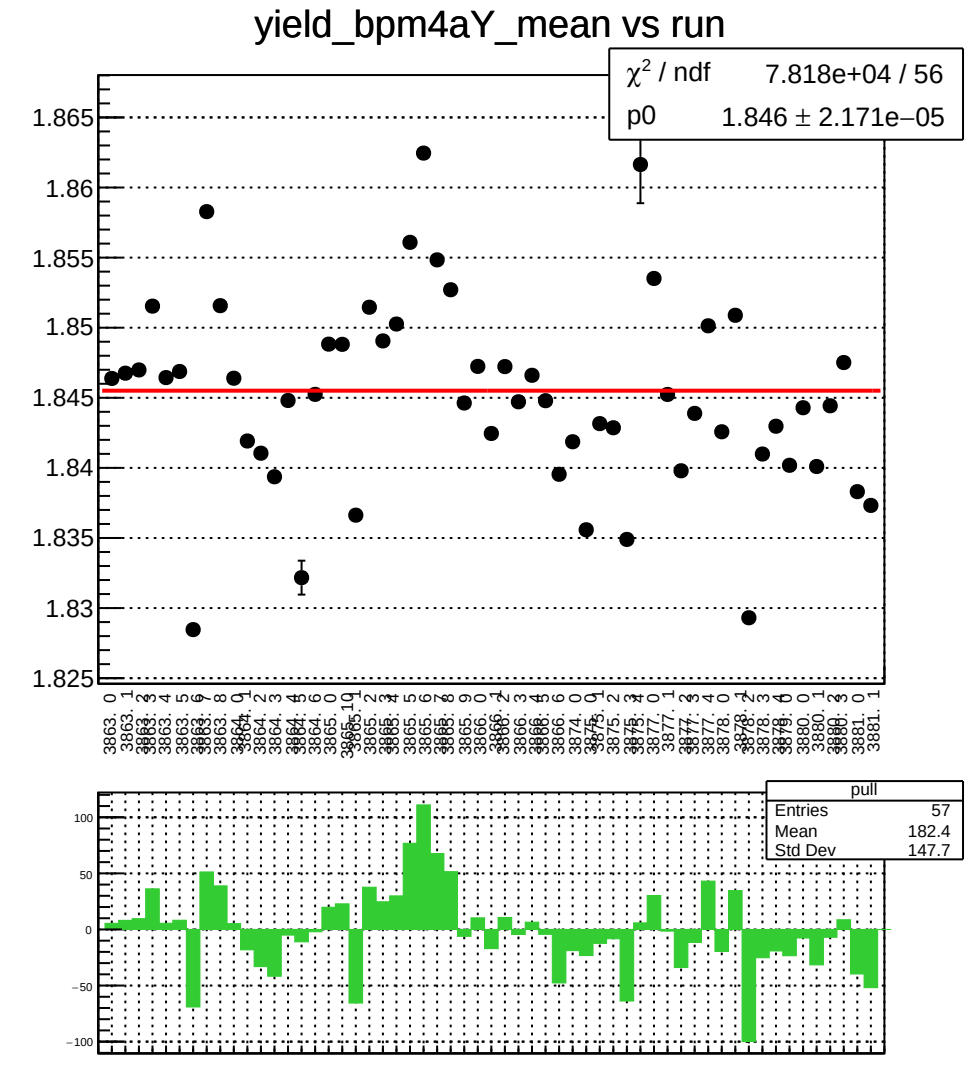

pull1D
Entries 57
Mean −1.645
Std Dev 4.855

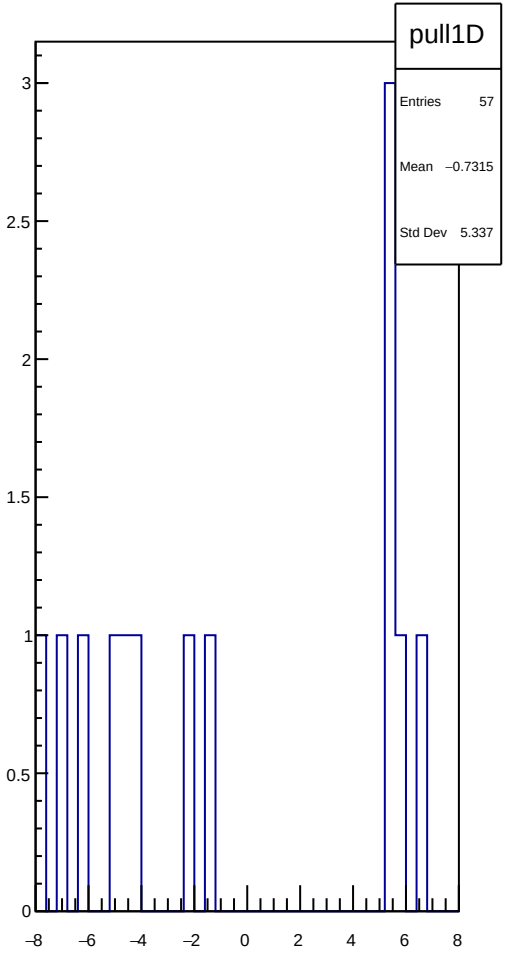

yield_cav4dY_rms vs run
χ² / ndf 4.662e+05 / 56
p0 0.07605 ± 9.648e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

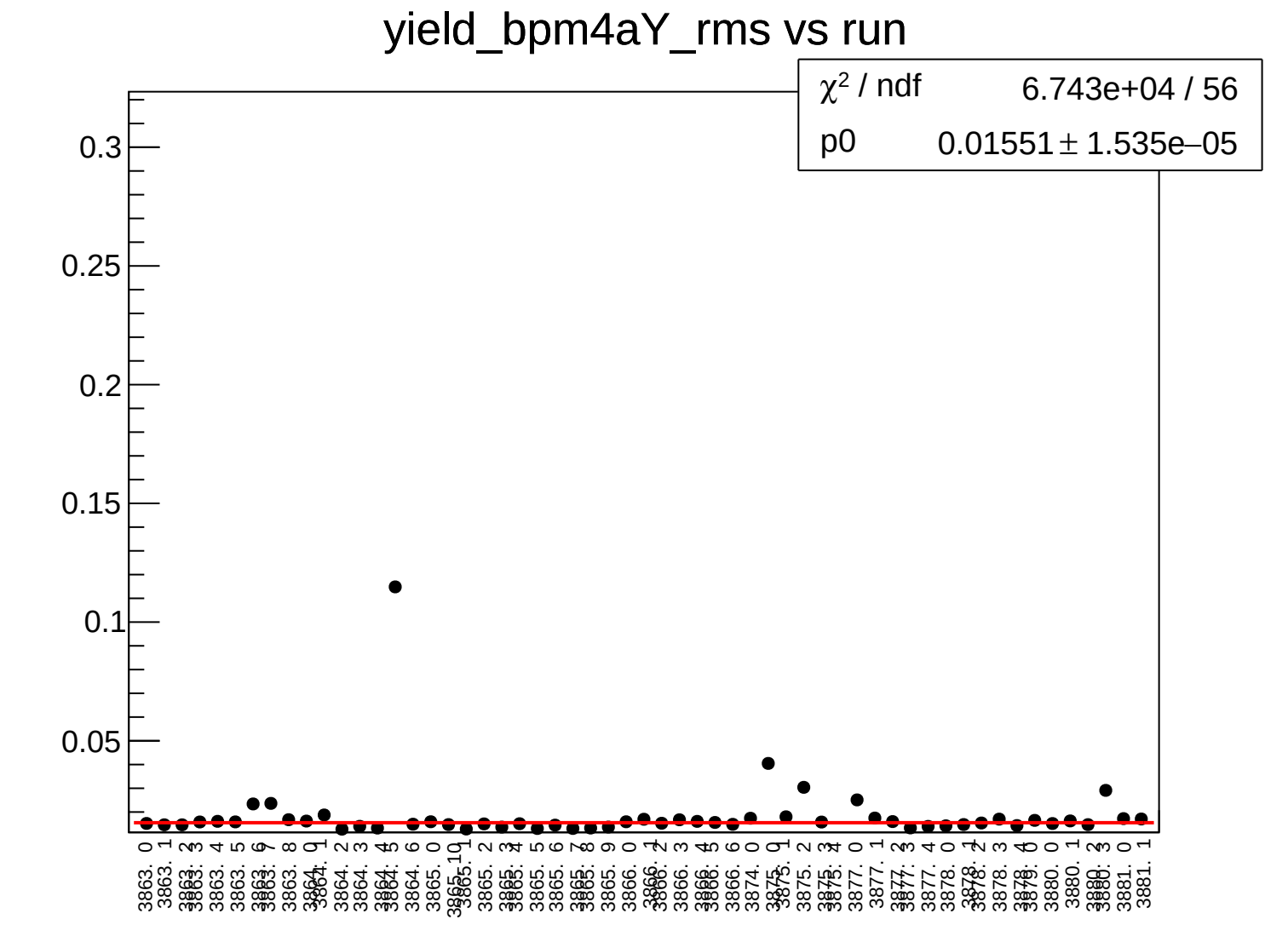

yield_bpm4aX_mean vs run
χ² / ndf 2.273e+04 / 56
p0 −0.0133 ± 1.251e−05
pull
Entries 57
Mean 54.23
Std Dev 16.43

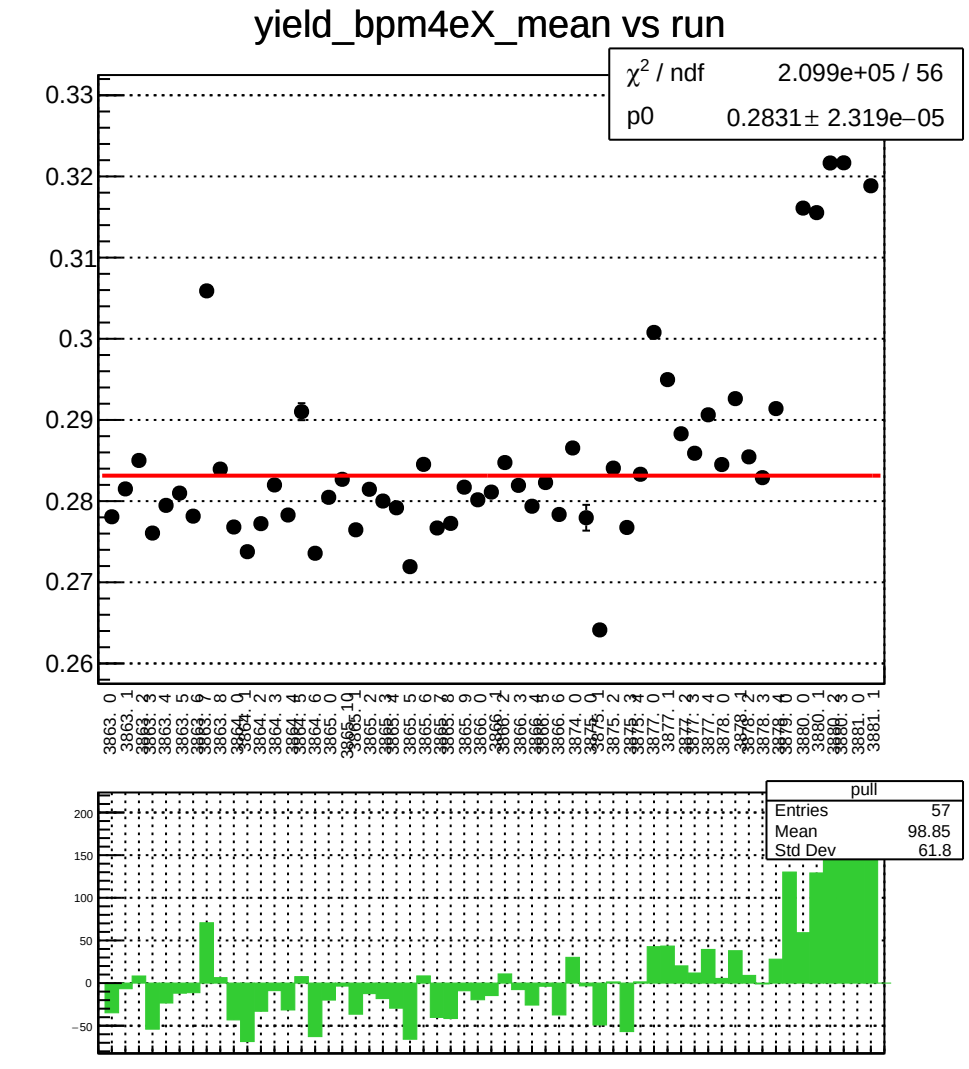

pull1D
Entries 57
Mean −0.9532
Std Dev 4.154

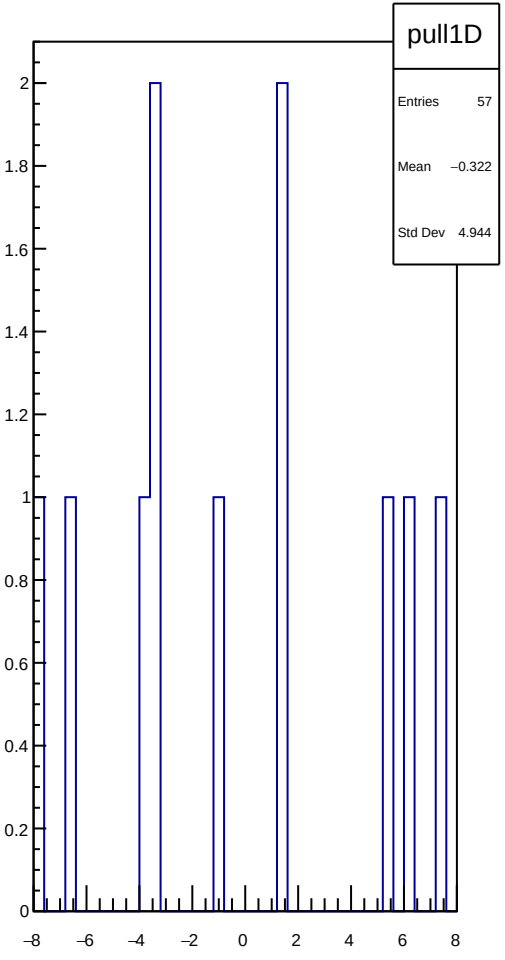

yield_bpm4aX_rms vs run
χ² / ndf 4.704e+04 / 56
p0 0.009022 ± 8.845e−06
0.035
0.03
0.025
0.02
0.015
0.01

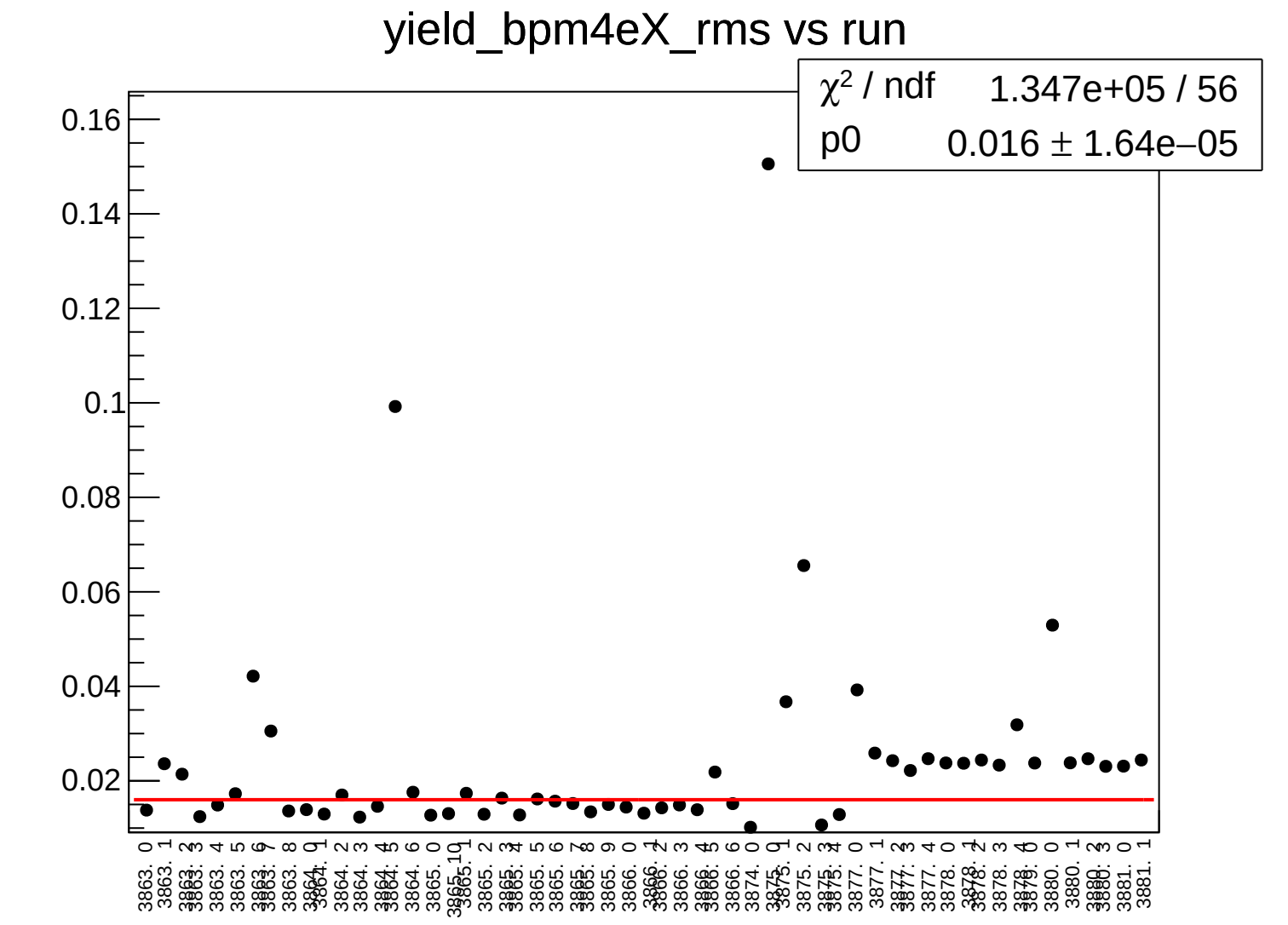

yield_bpm4aY_mean vs run
χ² / ndf 7.818e+04 / 56
p0 1.846 ± 2.171e−05
pull
Entries 57
Mean 182.4
Std Dev 147.7

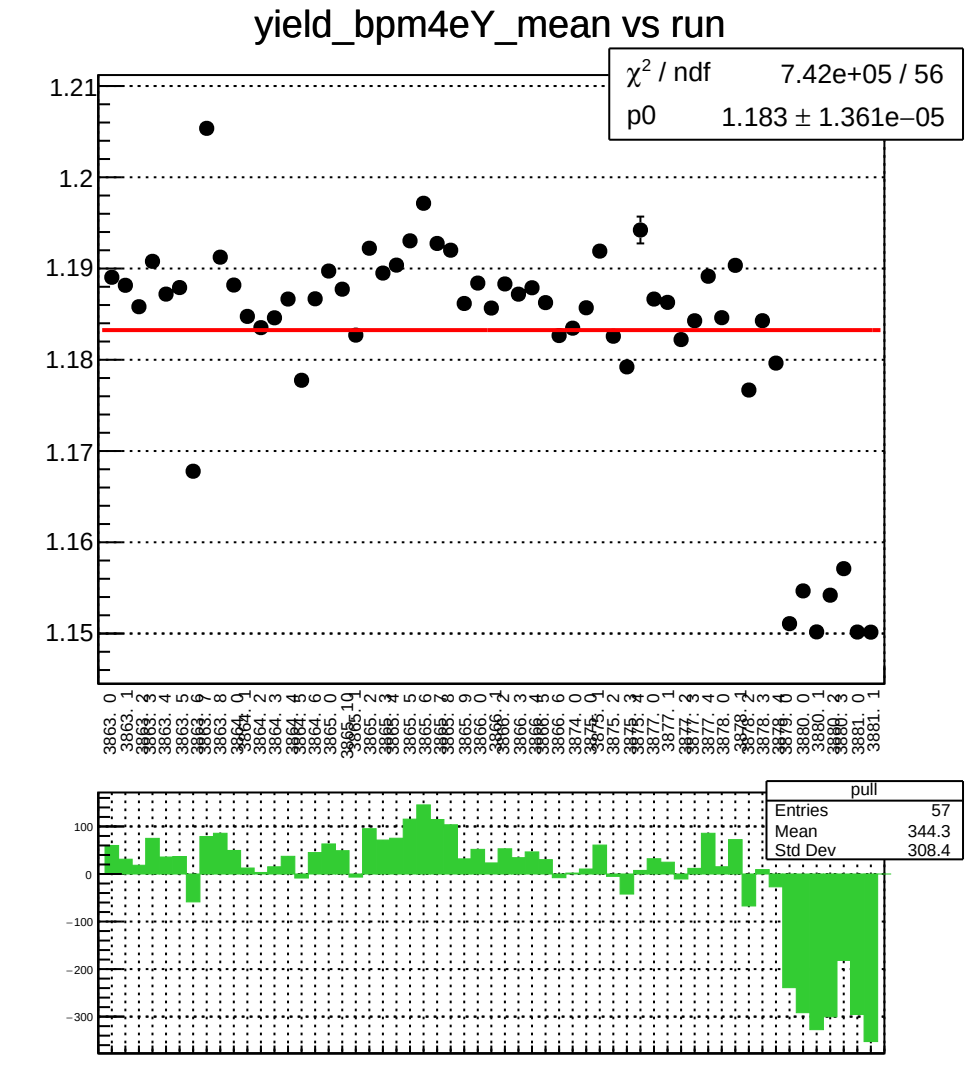

pull1D
Entries 57
Mean −0.7315
Std Dev 5.337

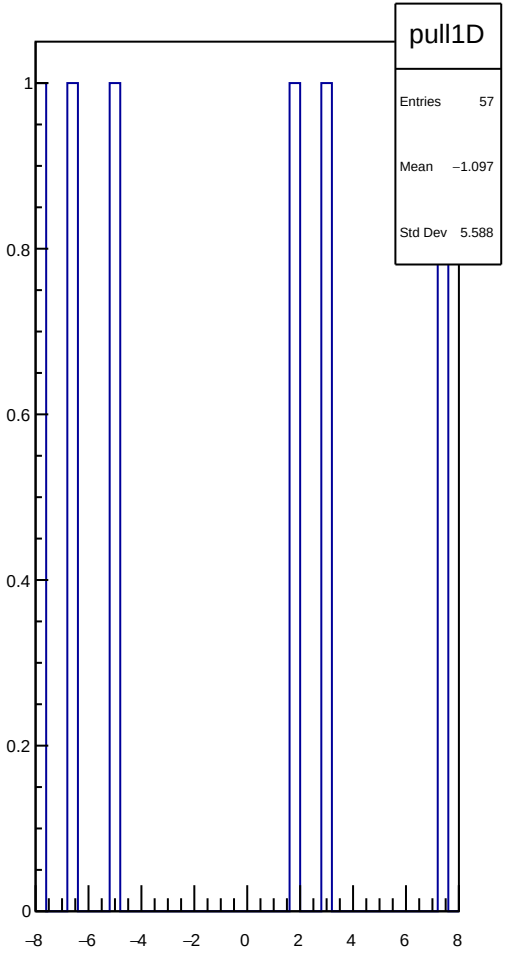

yield_bpm4aY_rms vs run
χ² / ndf 6.743e+04 / 56
p0 0.01551 ± 1.535e–05
0.3
0.25
0.2
0.15
0.1
0.05

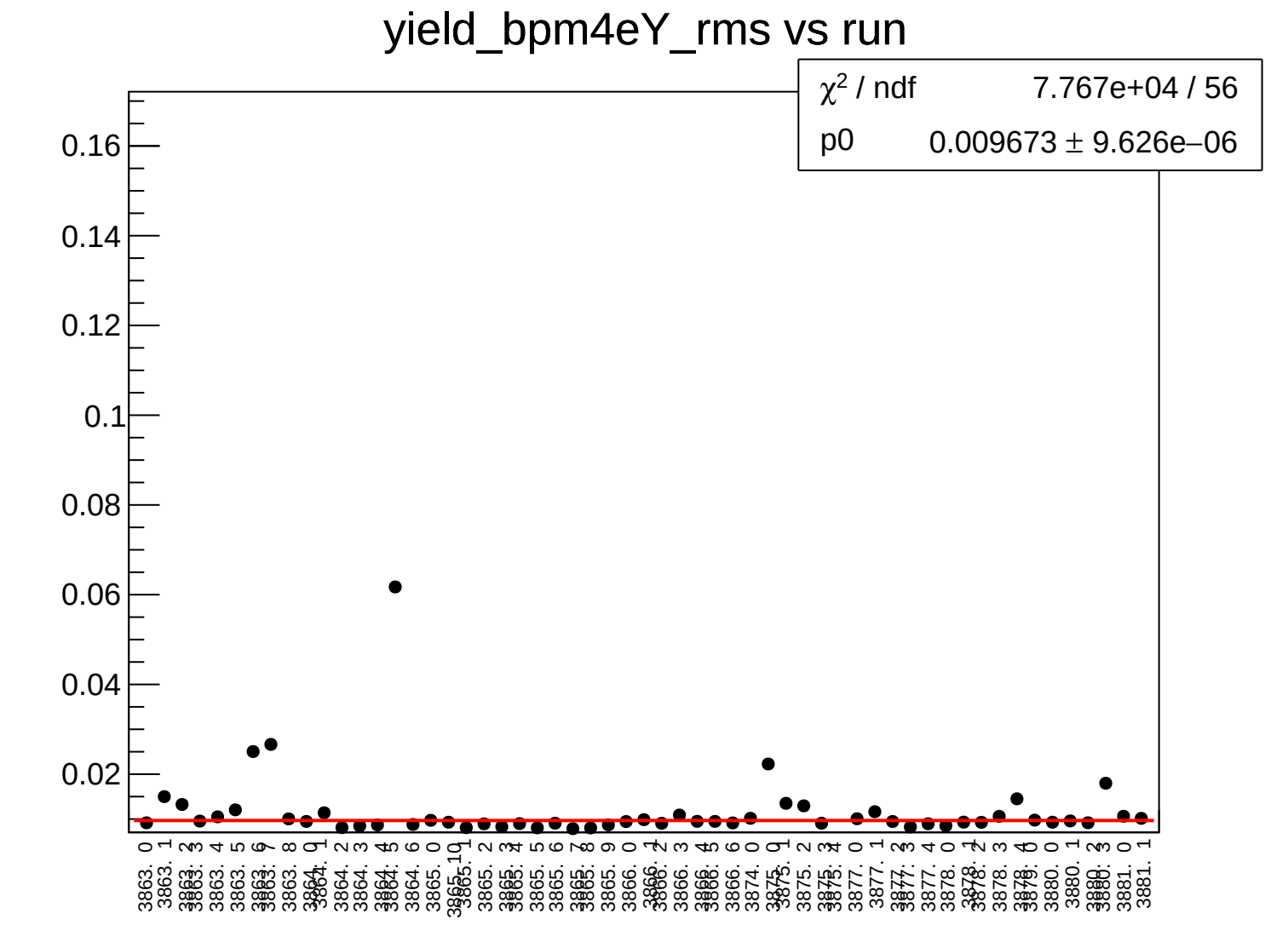

yield_bpm4eX_mean vs run
χ² / ndf 2.099e+05 / 56
p0 0.2831 ± 2.319e−05
pull
Entries 57
Mean 98.85
Std Dev 61.8

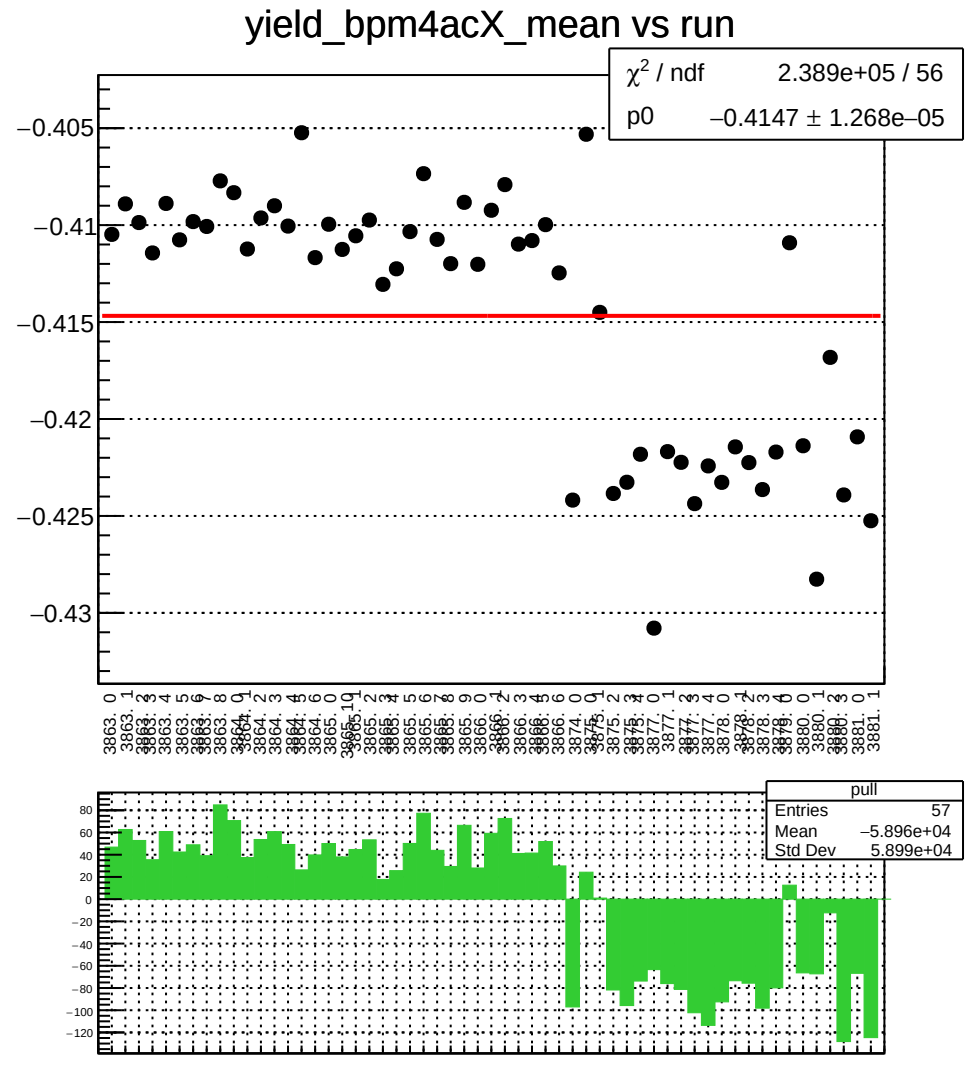

pull1D
Entries 57
Mean −0.322
Std Dev 4.944

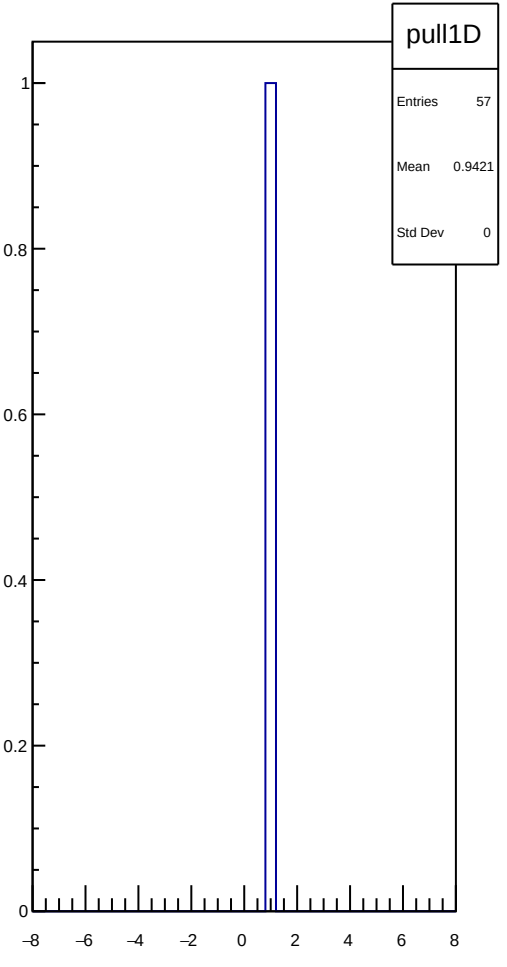

yield_bpm4eX_rms vs run
χ² / ndf 1.347e+05 / 56
p0 0.016 ± 1.64e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

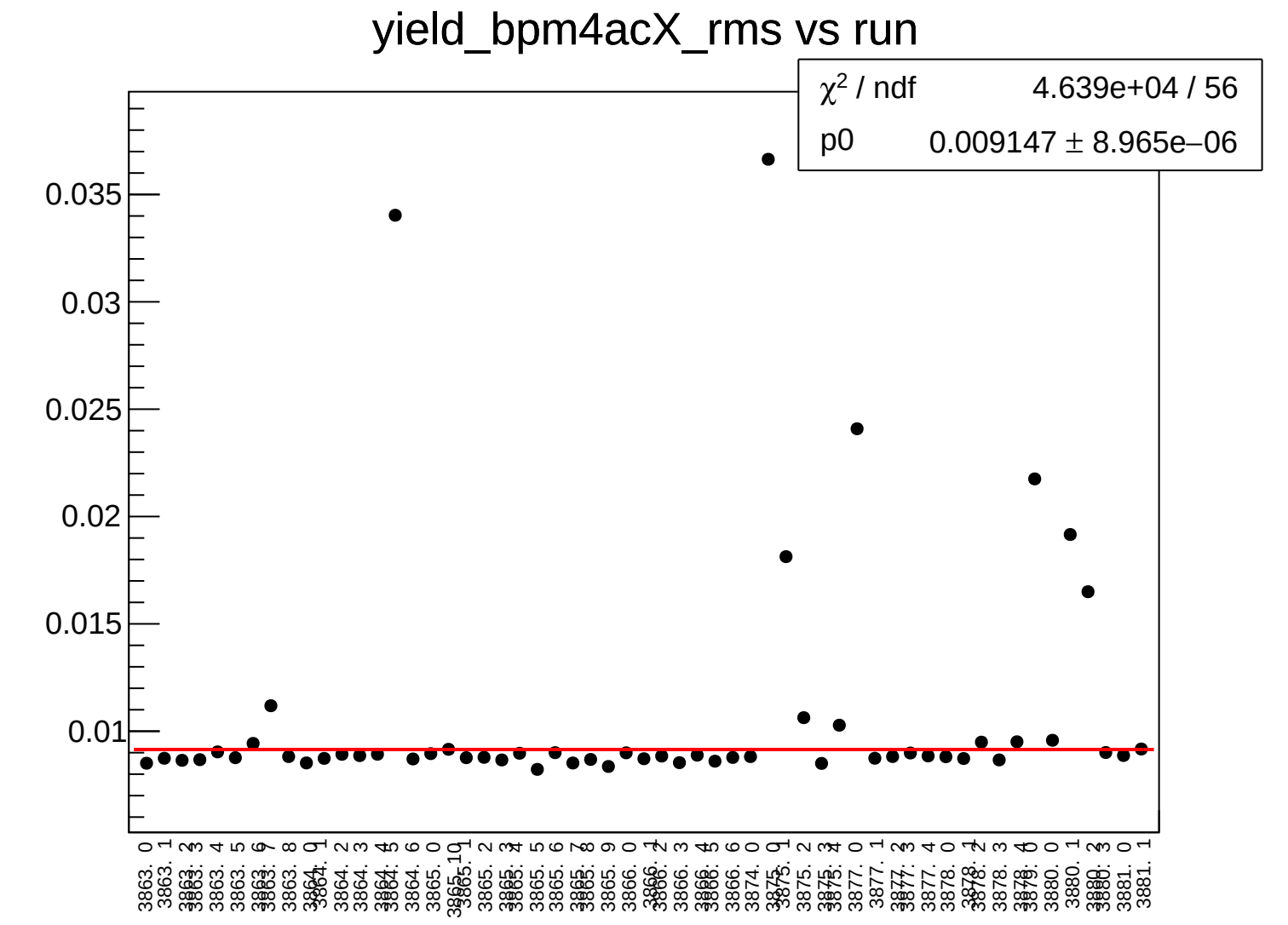

yield_bpm4eY_mean vs run
χ² / ndf 7.42e+05 / 56
p0 1.183 ± 1.361e−05
1.21
1.2
1.19
1.18
1.17
1.16
1.15
pull
Entries 57
Mean 344.3
Std Dev 308.4
100
0
−100
−200
−300

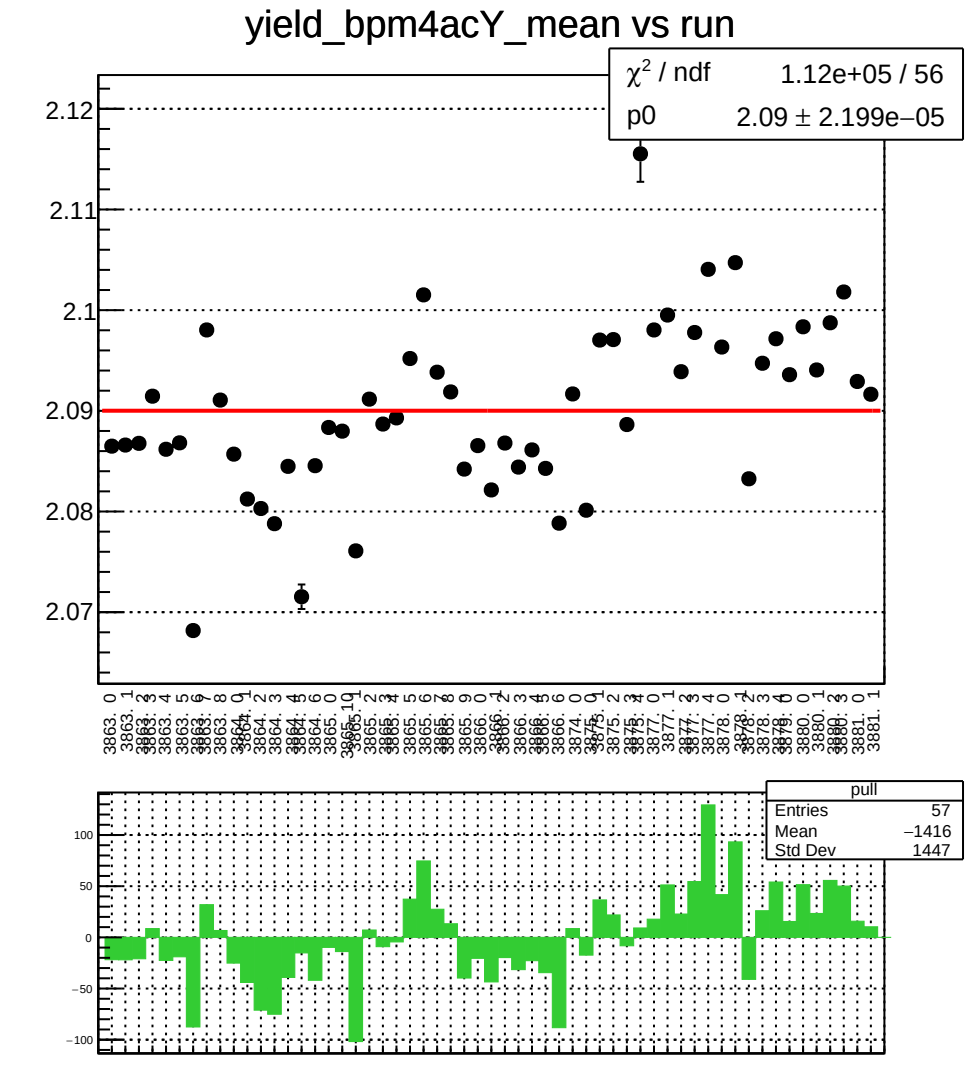

pull1D
Entries 57
Mean −1.097
Std Dev 5.588
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

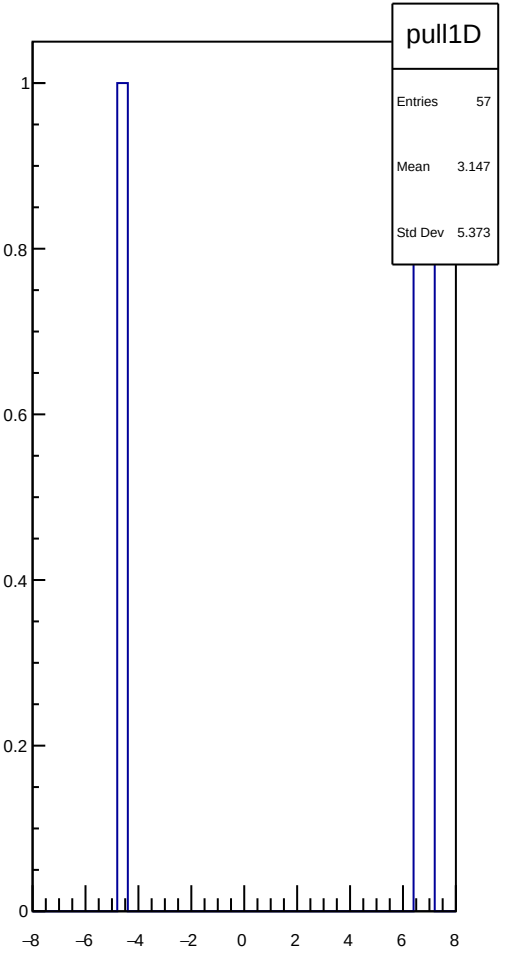

yield_bpm4eY_rms vs run
χ² / ndf 7.767e+04 / 56
p0 0.009673 ± 9.626e−06
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

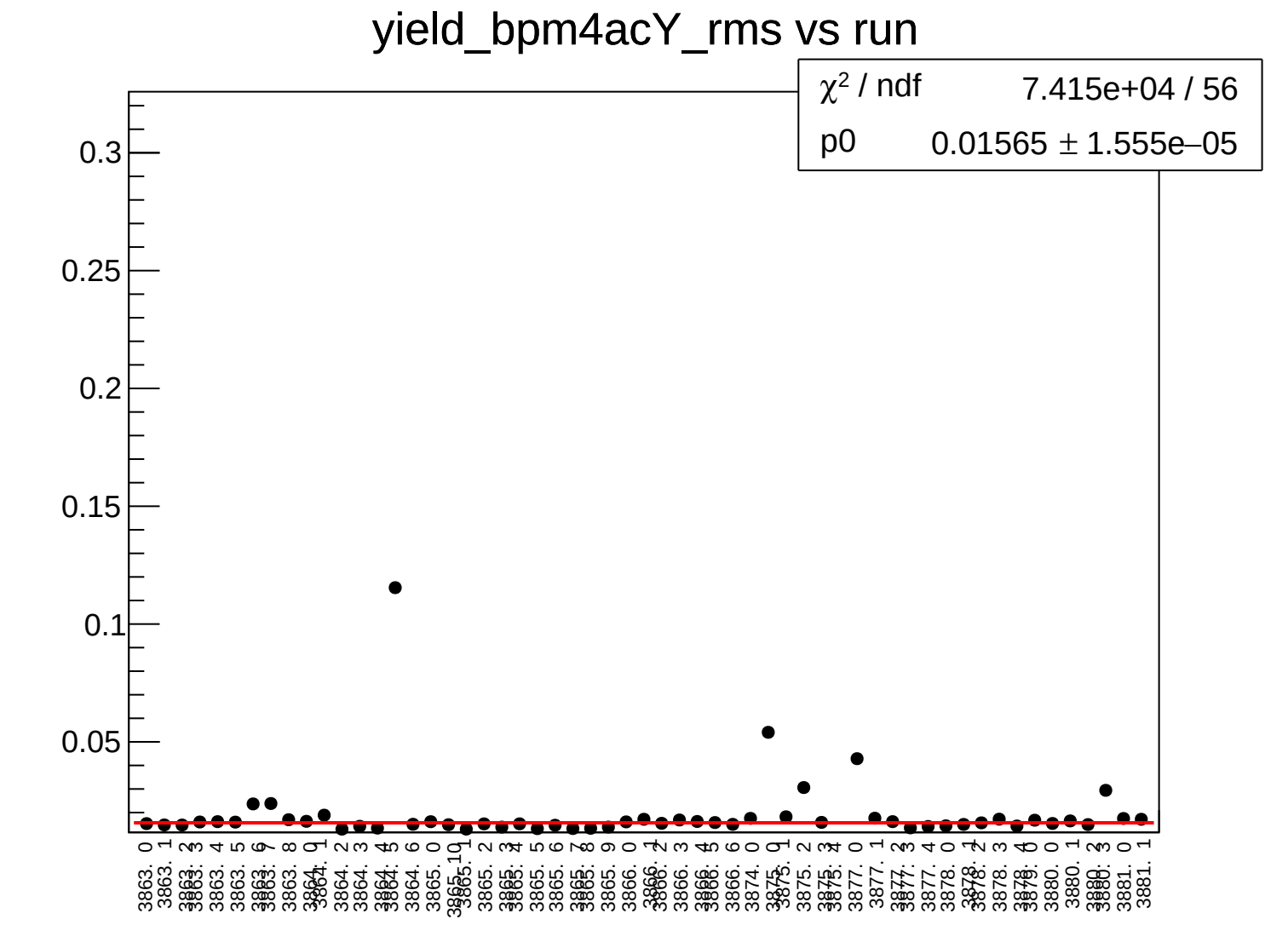

yield_bpm4acX_mean vs run
χ² / ndf 2.389e+05 / 56
p0 −0.4147 ± 1.268e−05
−0.405
−0.41
−0.415
−0.42
−0.425
−0.43
pull
Entries 57
Mean −5.896e+04
Std Dev 5.899e+04
80
60
40
20
0
−20
−40
−60
−80
−100
−120

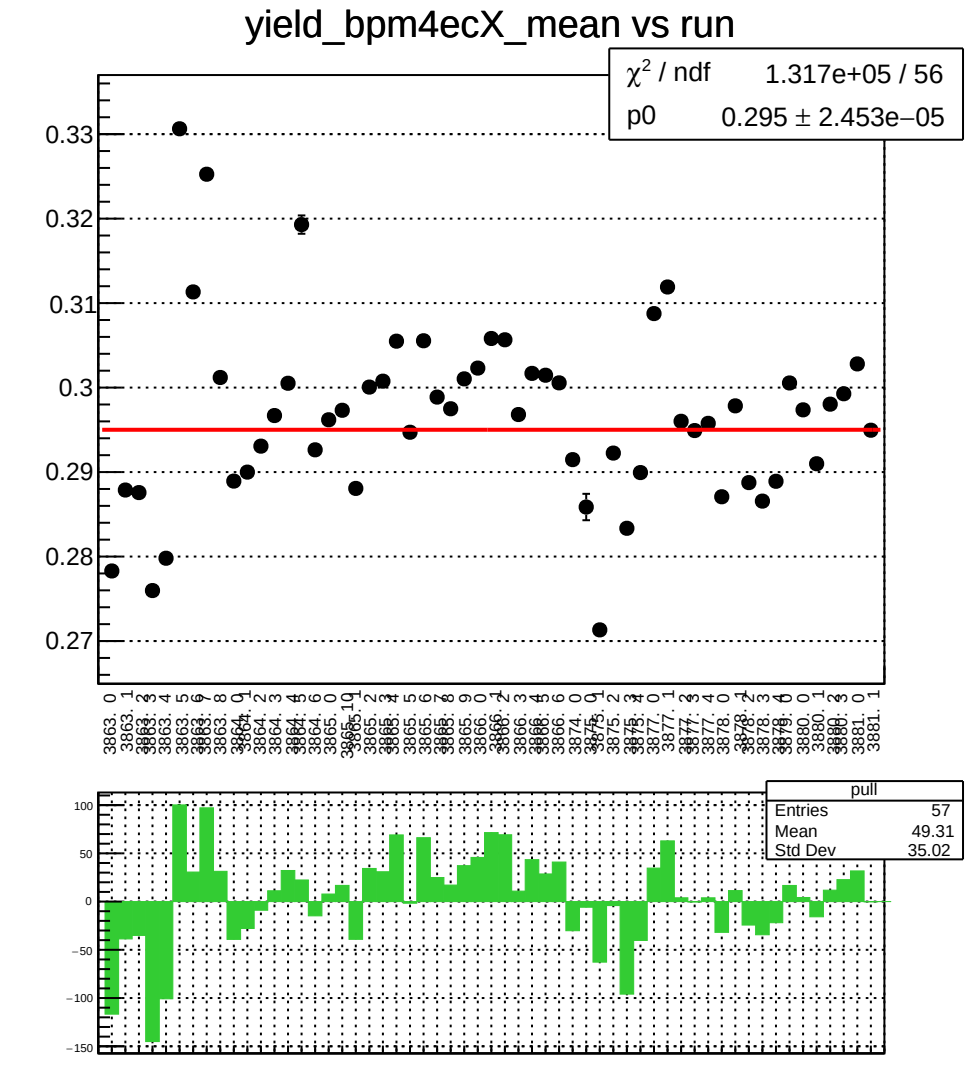

pull1D
Entries 57
Mean 0.9421
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

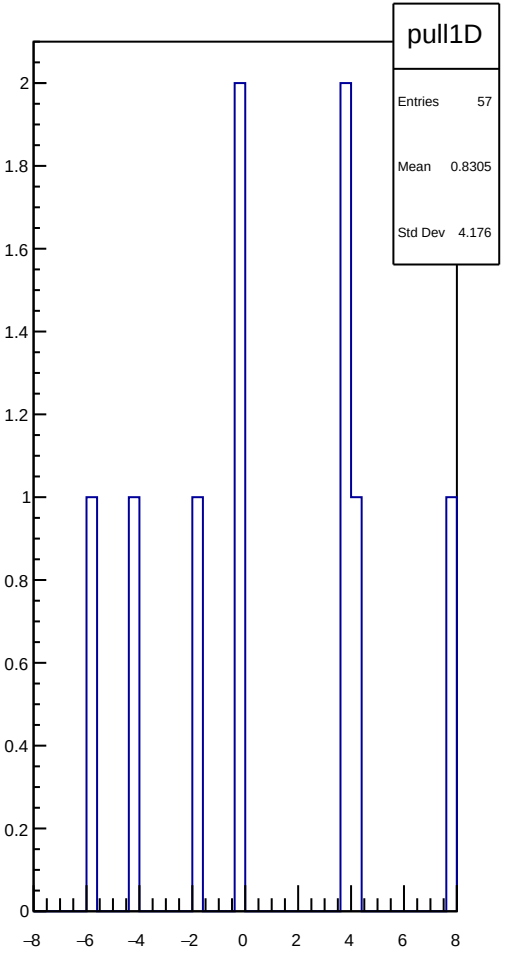

yield_bpm4acX_rms vs run
χ² / ndf 4.639e+04 / 56
p0 0.009147 ± 8.965e−06
0.035
0.03
0.025
0.02
0.015
0.01

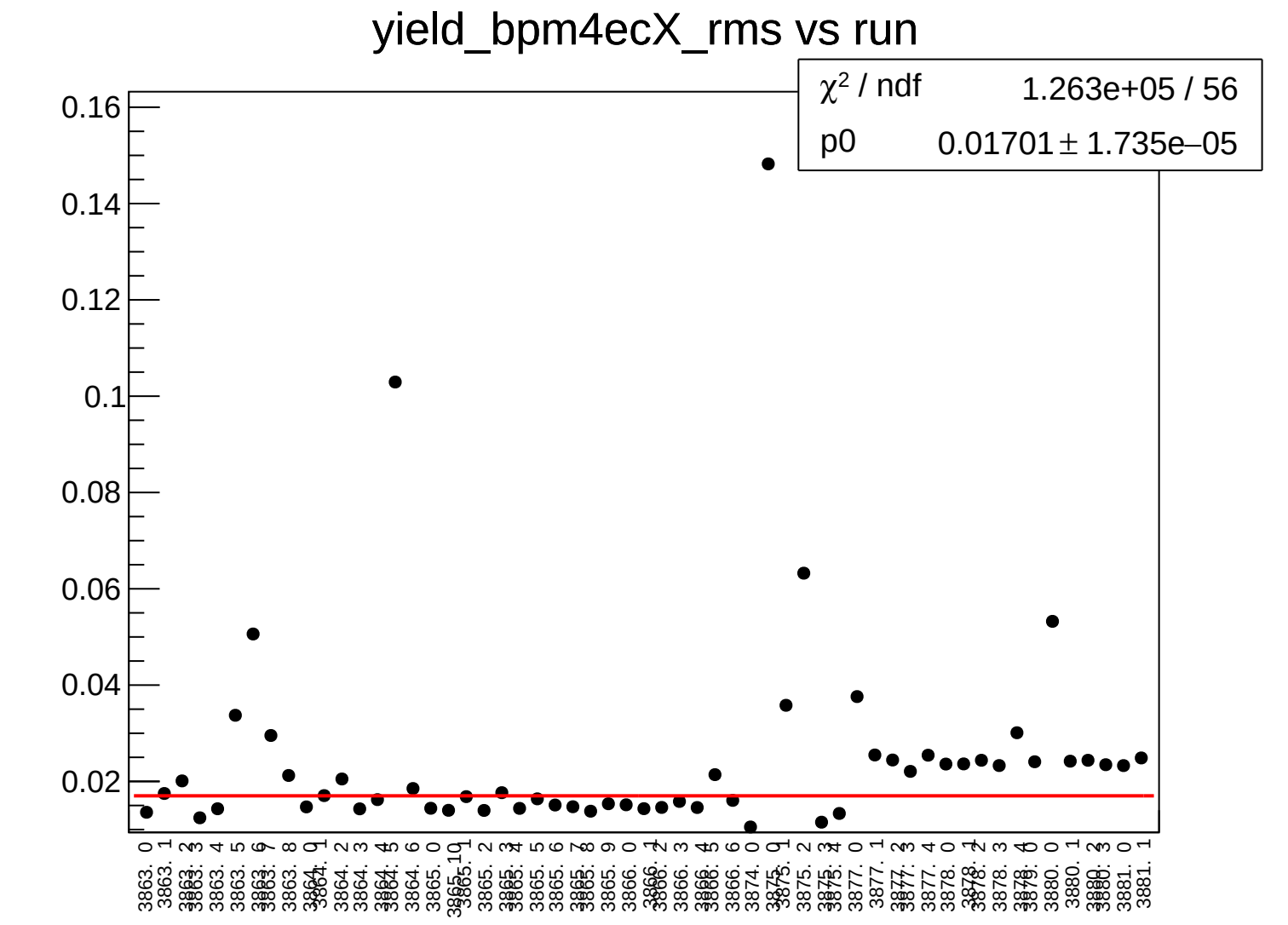

yield_bpm4acY_mean vs run
χ² / ndf 1.12e+05 / 56
p0 2.09 ± 2.199e−05
2.12
2.11
2.1
2.09
2.08
2.07
pull
Entries 57
Mean −1416
Std Dev 1447
100
50
0
−50
−100

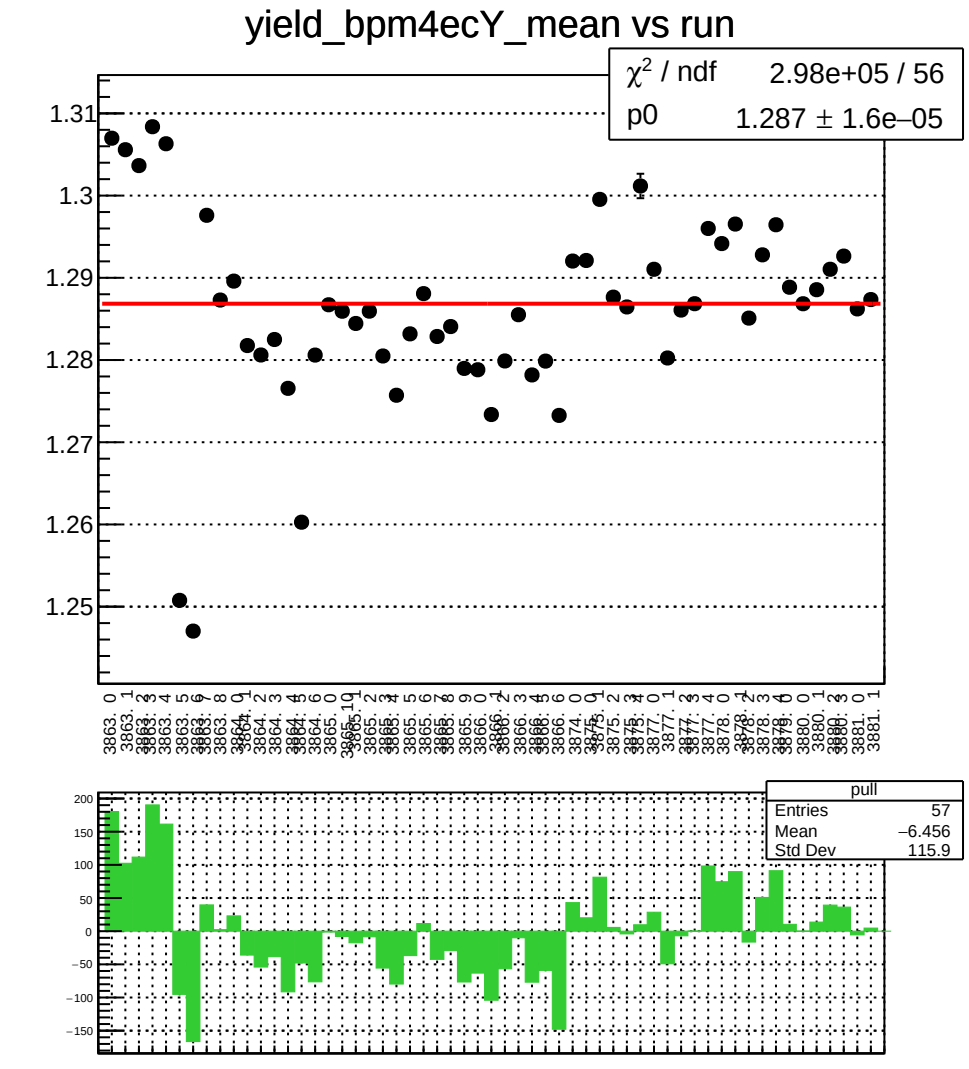

pull1D
Entries 57
Mean 3.147
Std Dev 5.373
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

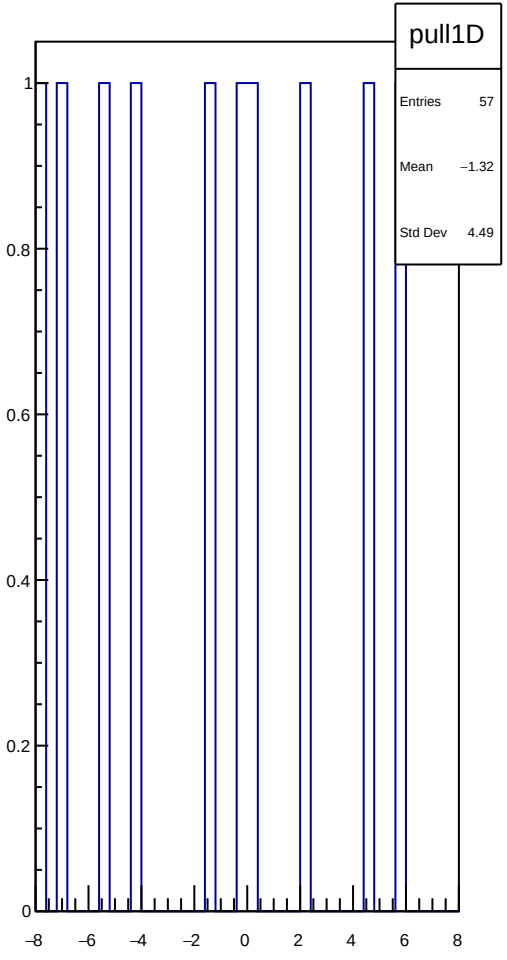

yield_bpm4acY_rms vs run
χ² / ndf 7.415e+04 / 56
p0 0.01565 ± 1.555e–05
0.3
0.25
0.2
0.15
0.1
0.05

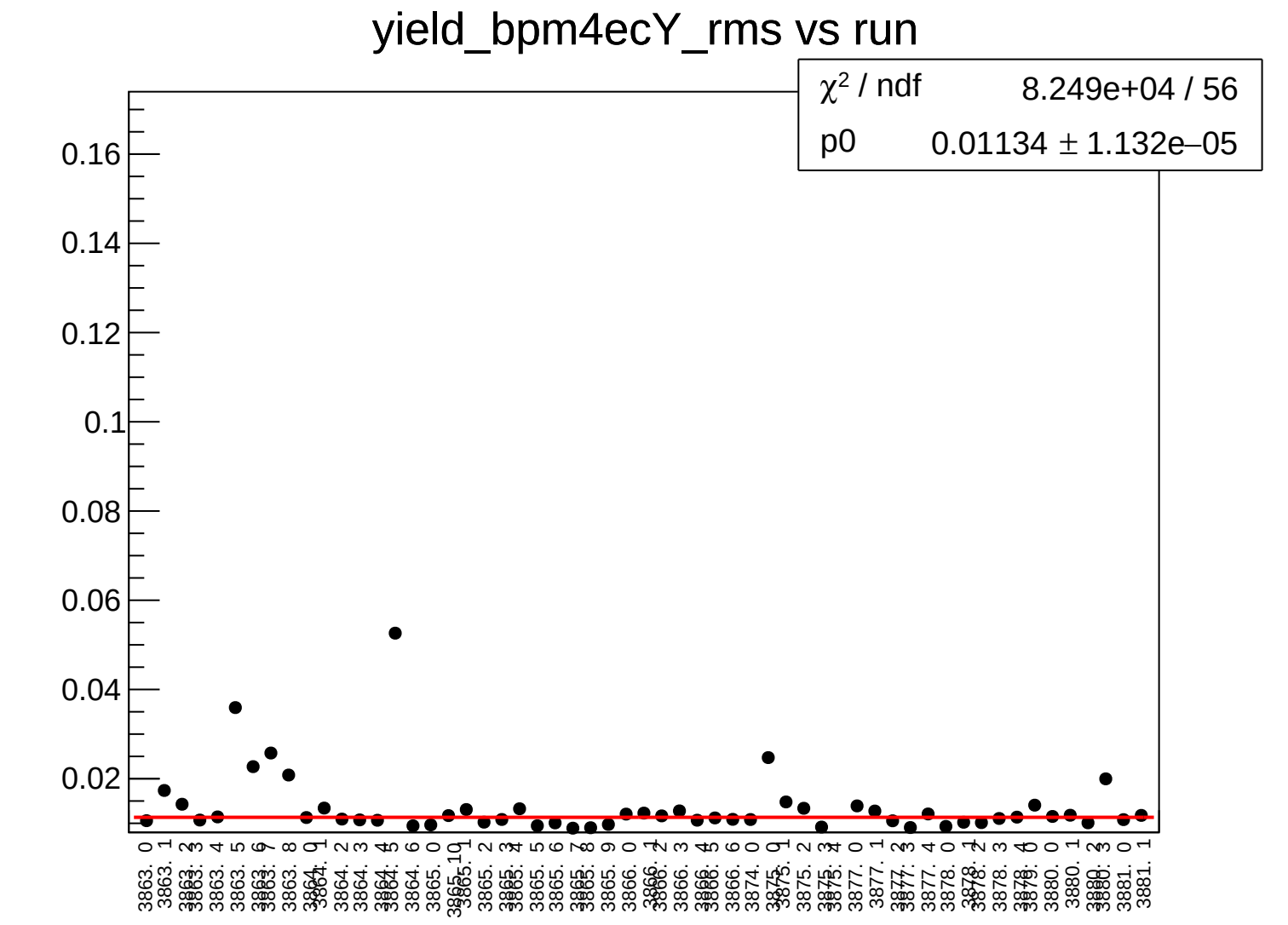

yield_bpm4ecX_mean vs run
χ² / ndf 1.317e+05 / 56
p0 0.295 ± 2.453e−05
pull
Entries 57
Mean 49.31
Std Dev 35.02

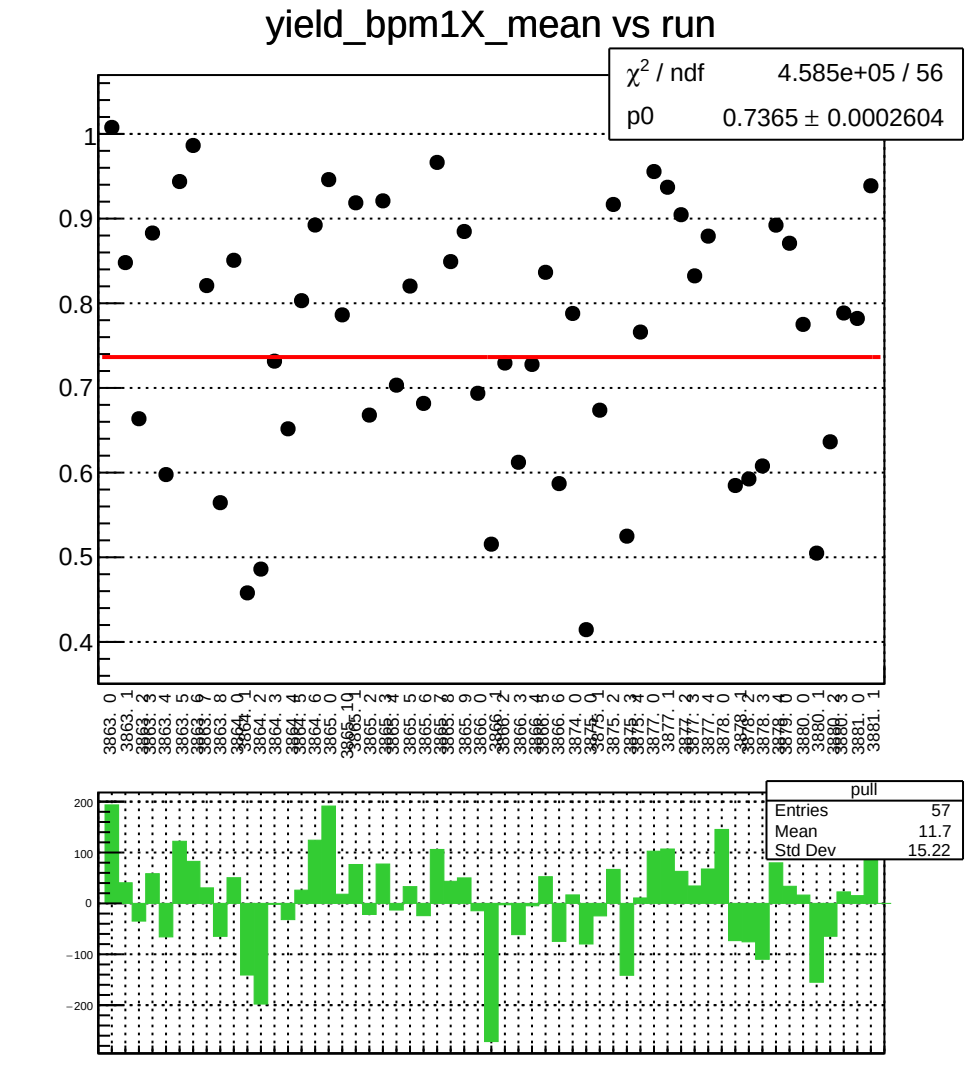

pull1D
Entries 57
Mean 0.8305
Std Dev 4.176

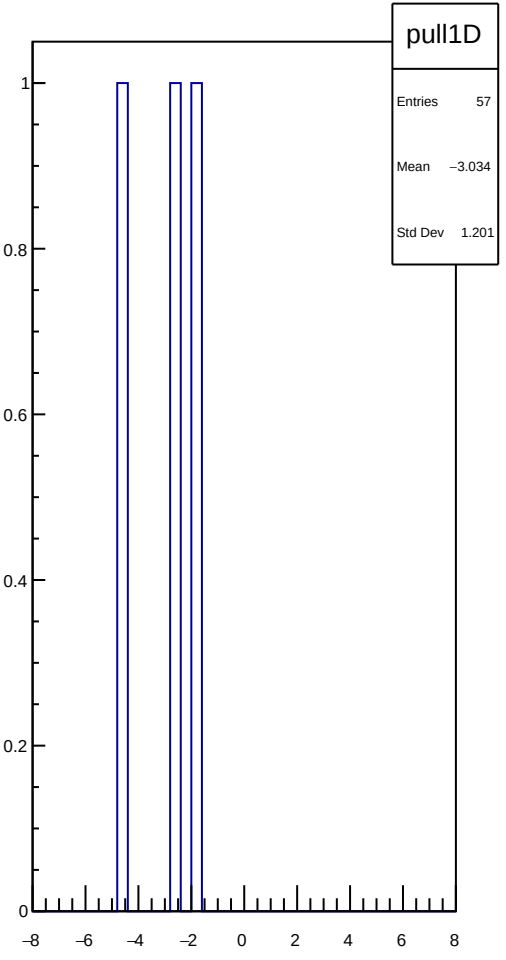

yield_bpm4ecX_rms vs run
χ² / ndf 1.263e+05 / 56
p0 0.01701 ± 1.735e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

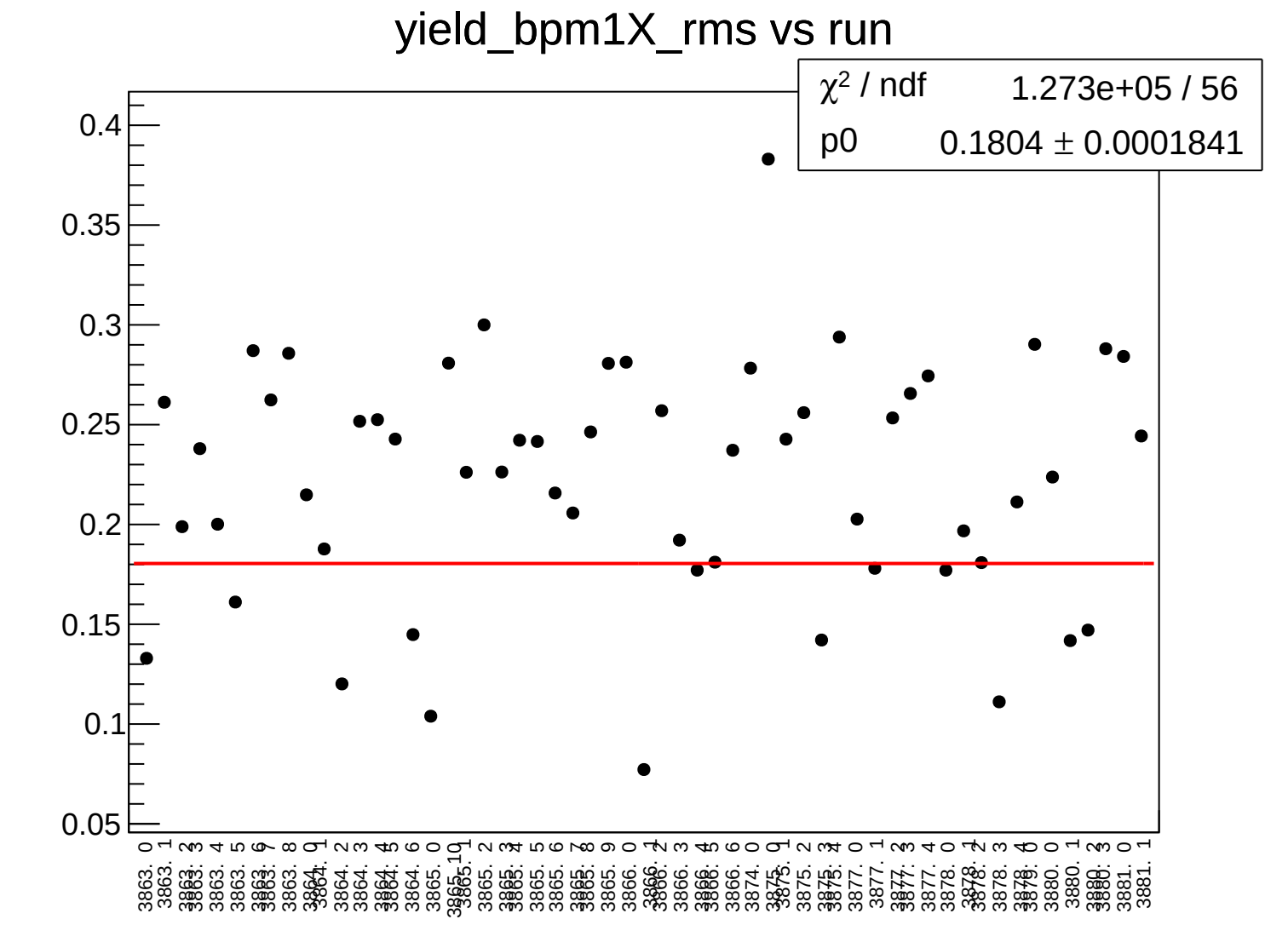

yield_bpm4ecY_mean vs run
χ² / ndf 2.98e+05 / 56
p0 1.287 ± 1.6e−05
1.31
1.3
1.29
1.28
1.27
1.26
1.25
pull
Entries 57
Mean −6.456
Std Dev 115.9
200
150
100
50
0
−50
−100
−150

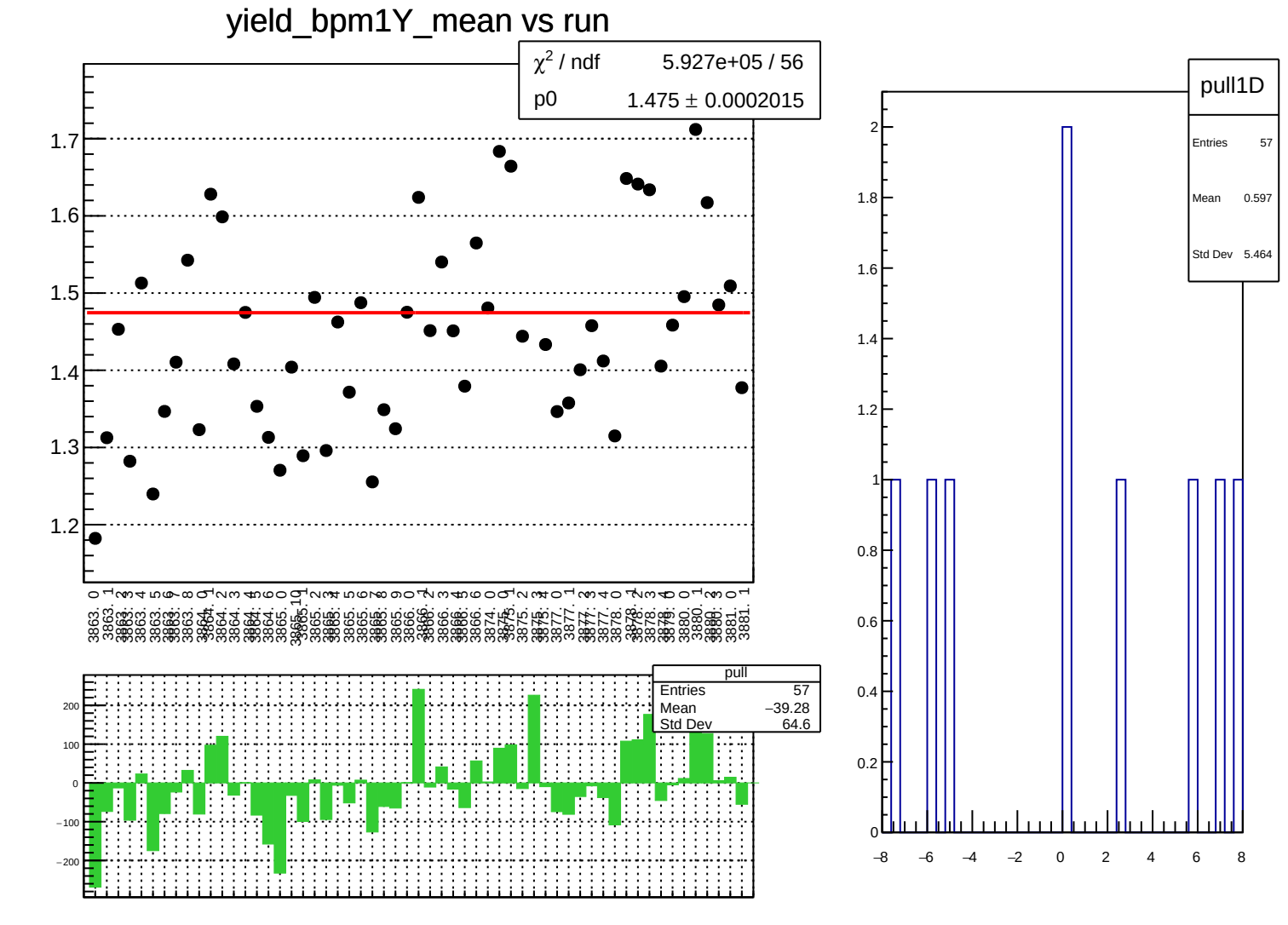

pull1D
Entries 57
Mean −1.32
Std Dev 4.49
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

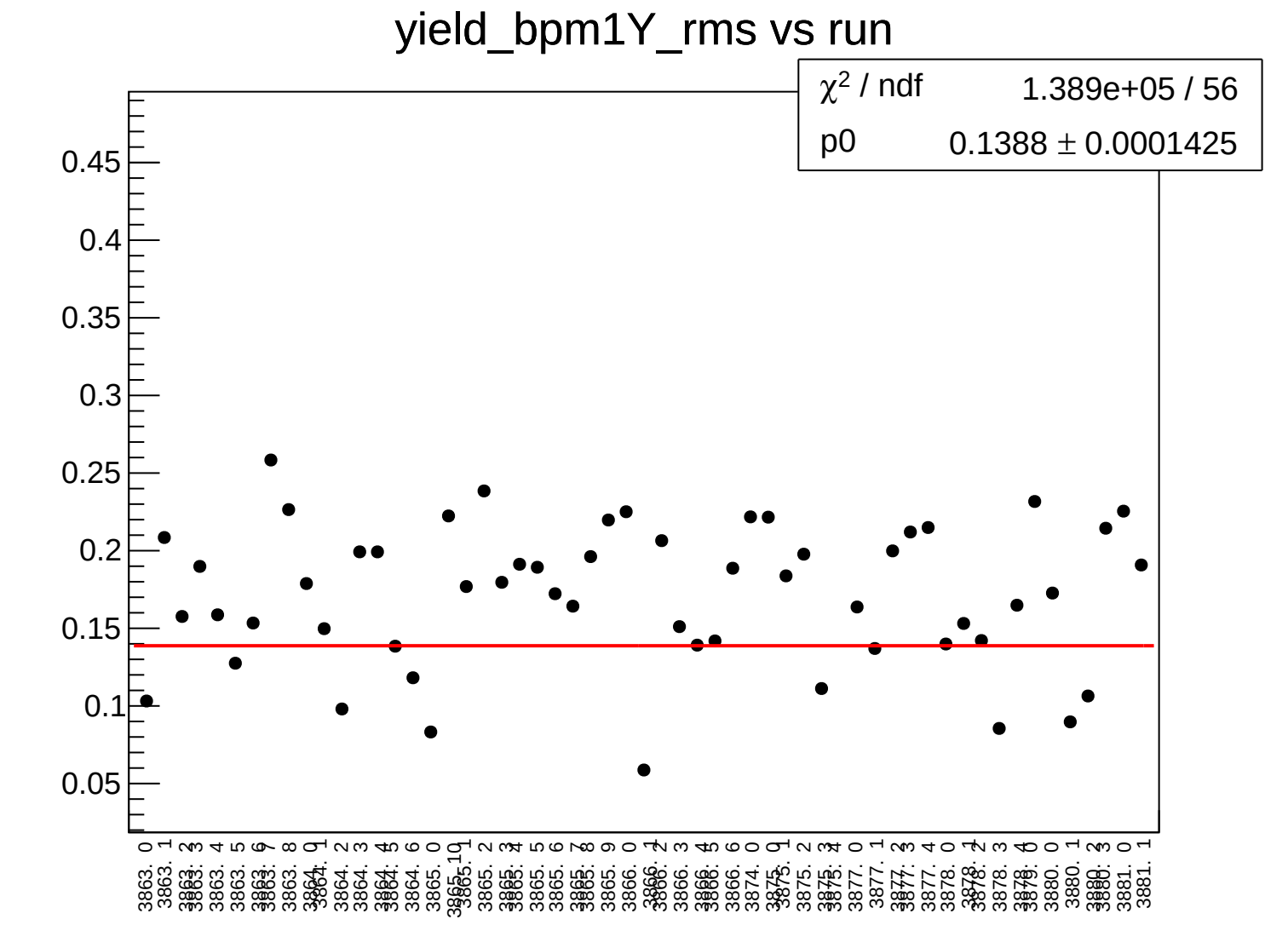

yield_bpm4ecY_rms vs run
χ² / ndf 8.249e+04 / 56
p0 0.01134 ± 1.132e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

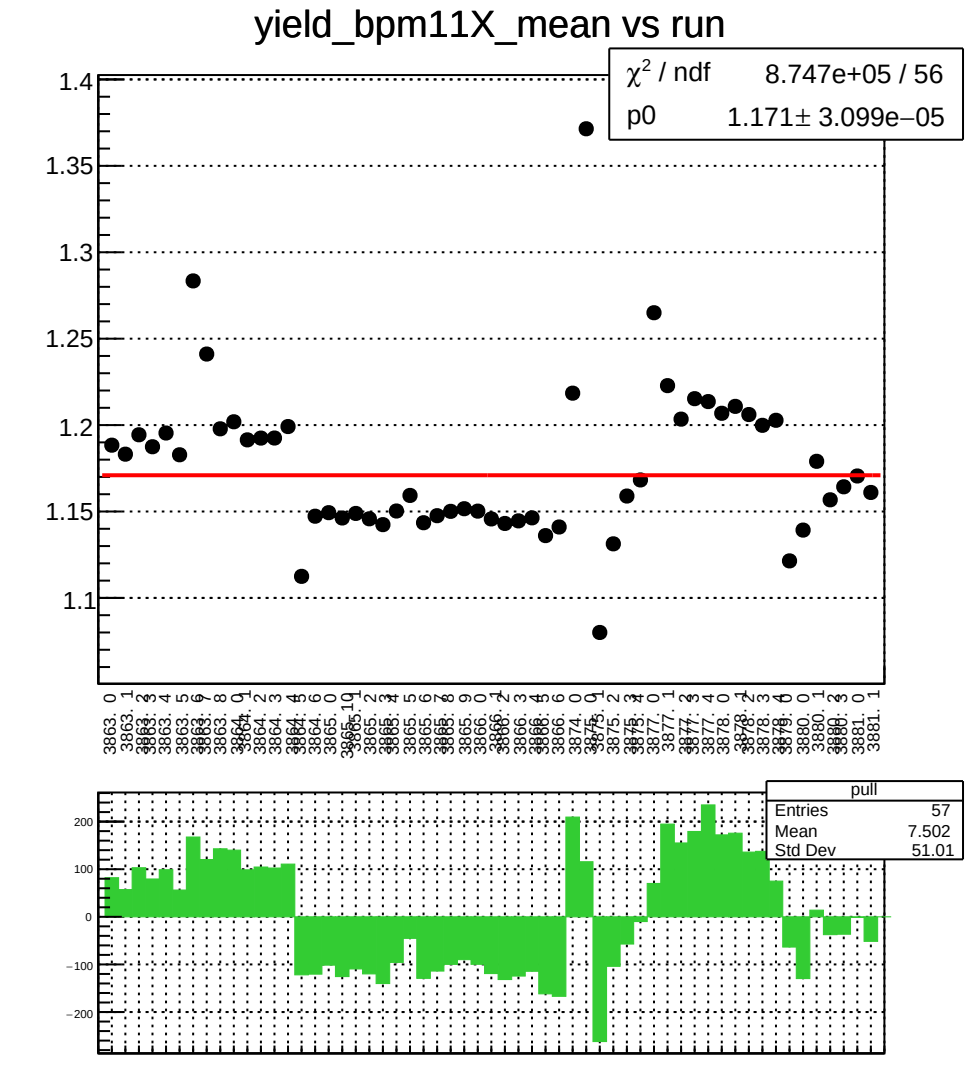

yield_bpm1X_mean vs run
χ² / ndf 4.585e+05 / 56
p0 0.7365 ± 0.0002604
pull
Entries 57
Mean 11.7
Std Dev 15.22

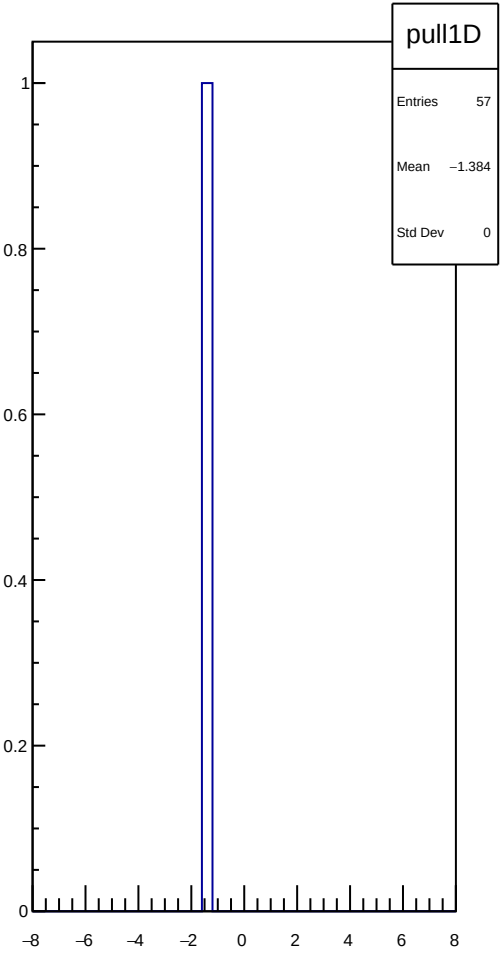

pull1D
Entries 57
Mean −3.034
Std Dev 1.201

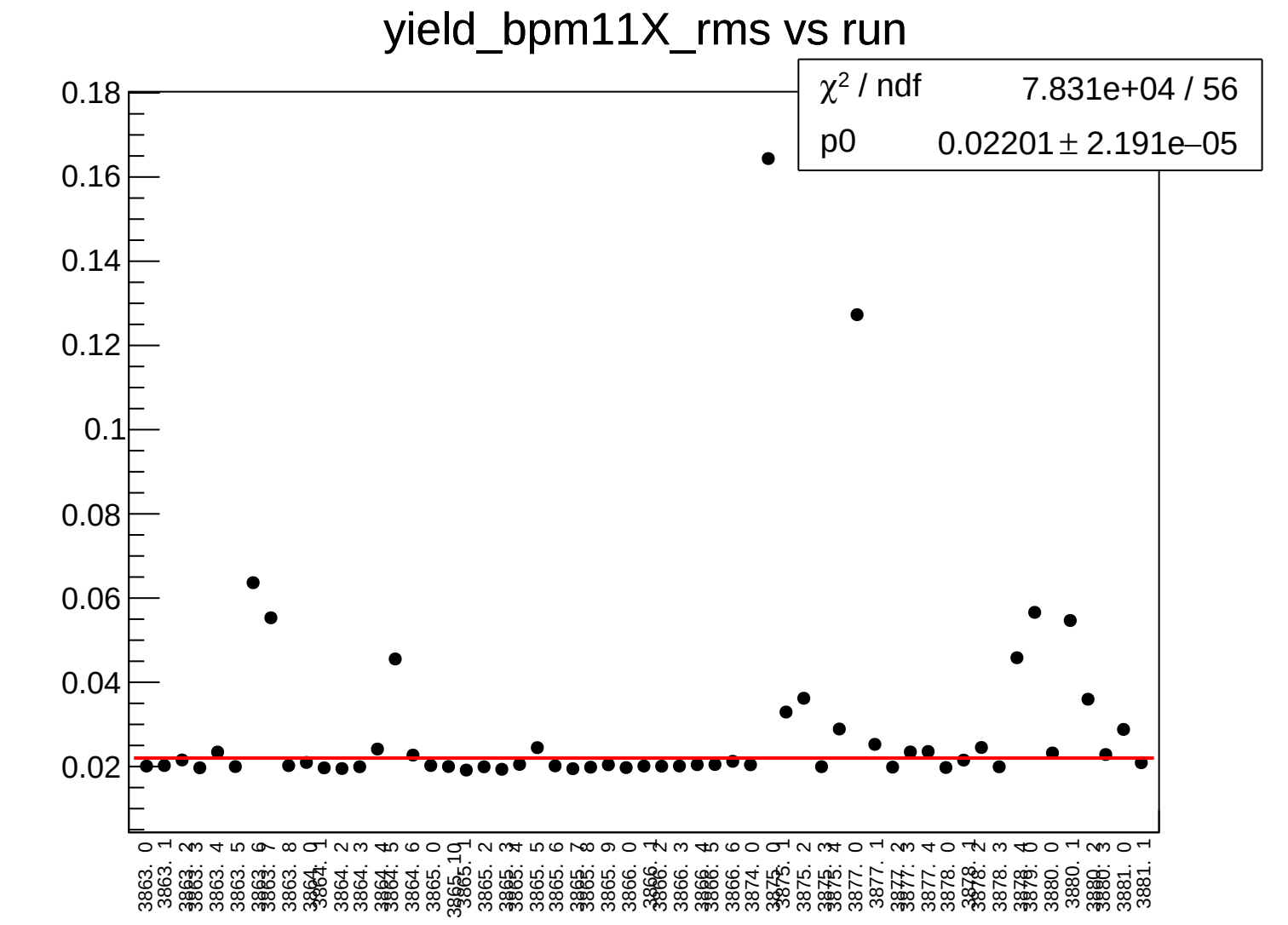

yield_bpm1X_rms vs run
χ² / ndf 1.273e+05 / 56
p0 0.1804 ± 0.0001841
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

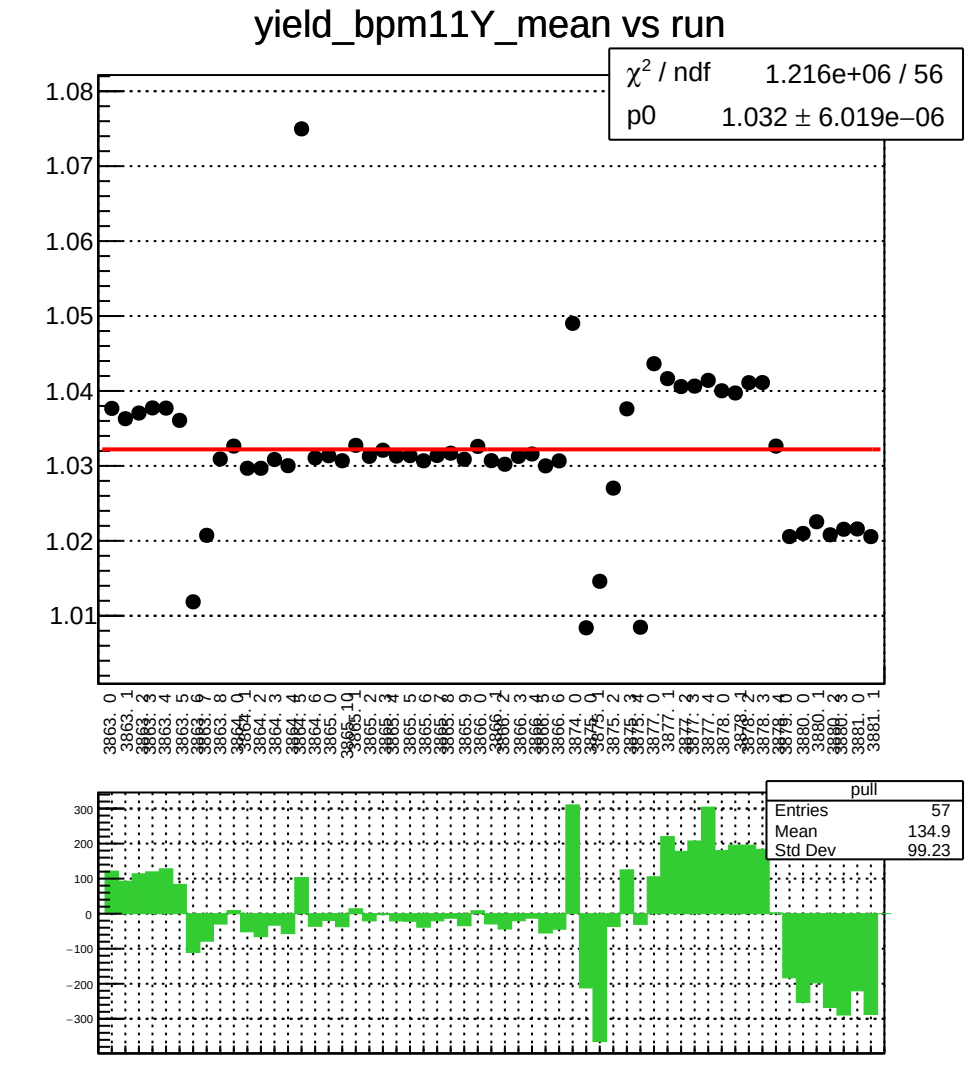

yield_bpm1Y_mean vs run
χ² / ndf 5.927e+05 / 56
p0 1.475 ± 0.0002015
pull
Entries 57
Mean −39.28
Std Dev 64.6
pull1D
Entries 57
Mean 0.597
Std Dev 5.464

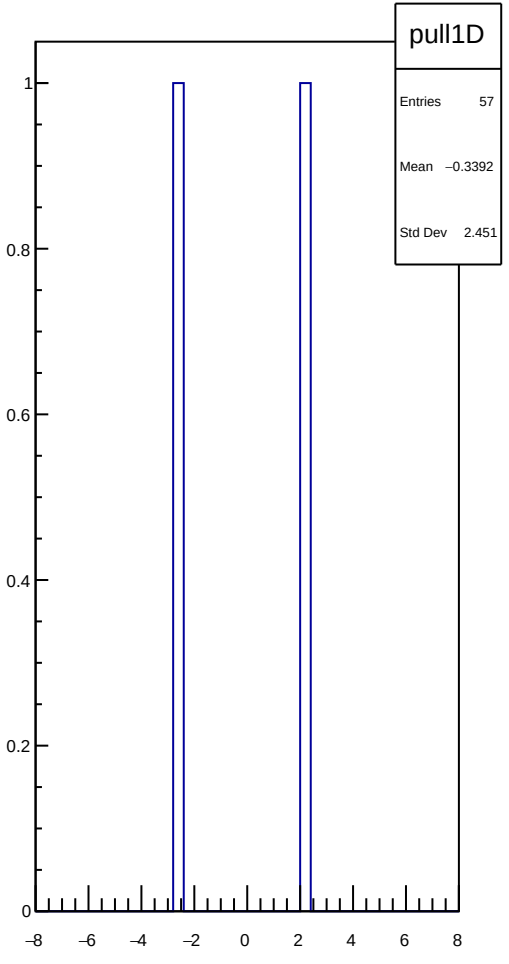

yield_bpm1Y_rms vs run
χ² / ndf 1.389e+05 / 56
p0 0.1388 ± 0.0001425
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

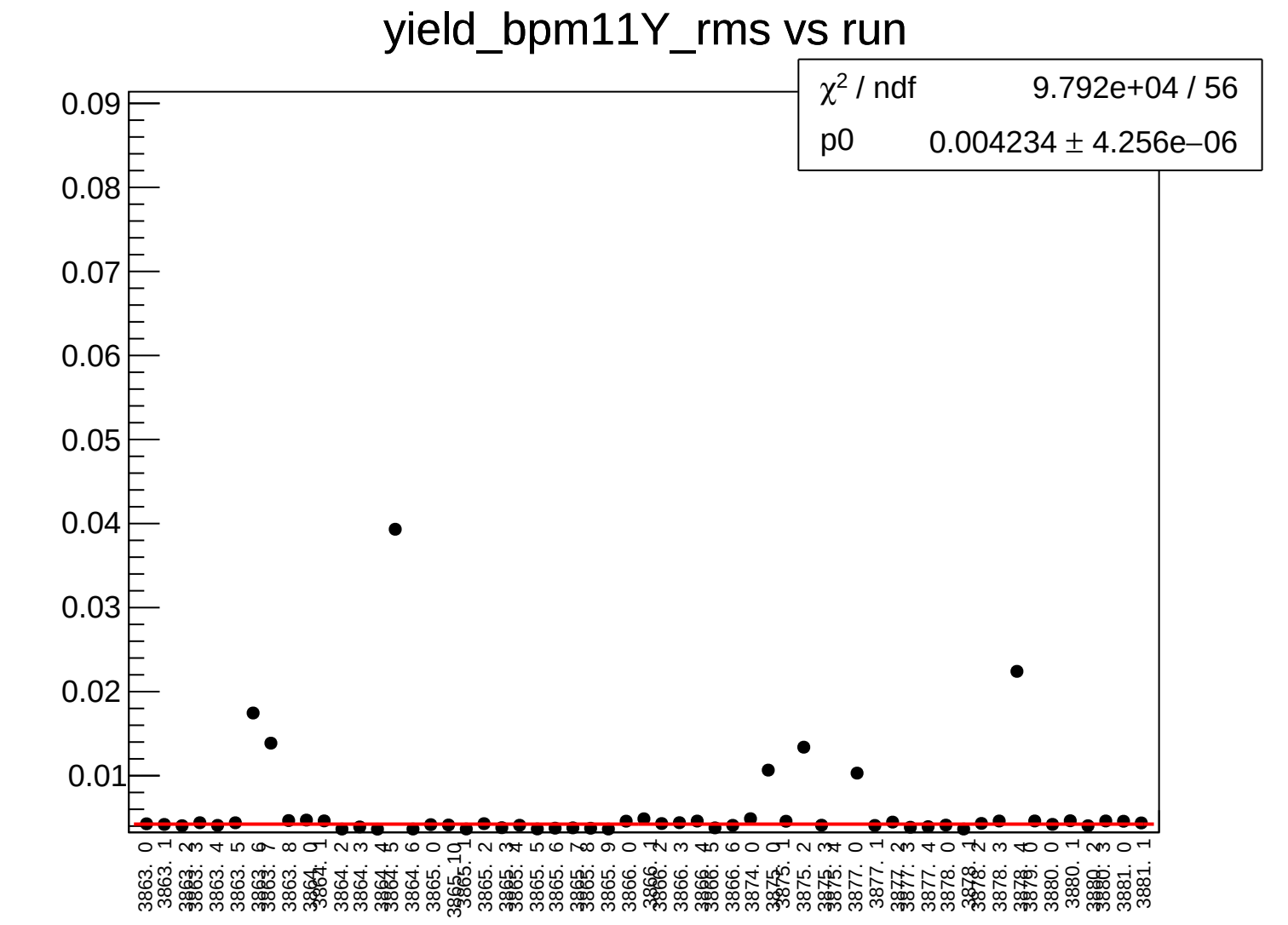

yield_bpm11X_mean vs run
χ² / ndf 8.747e+05 / 56
p0 1.171± 3.099e−05
pull
Entries 57
Mean 7.502
Std Dev 51.01

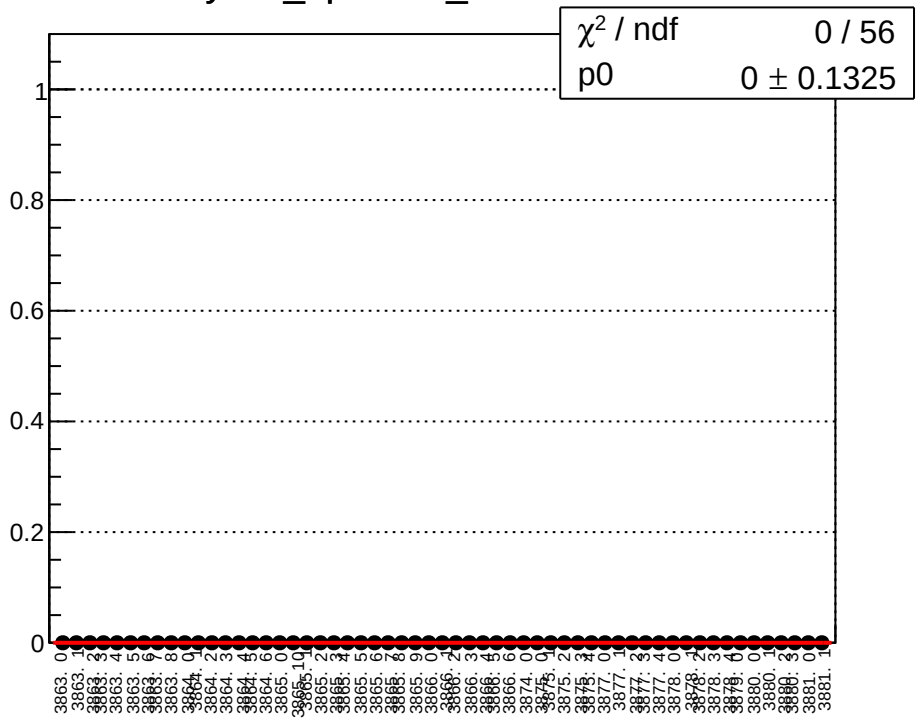

pull1D
Entries 57
Mean −1.384
Std Dev 0

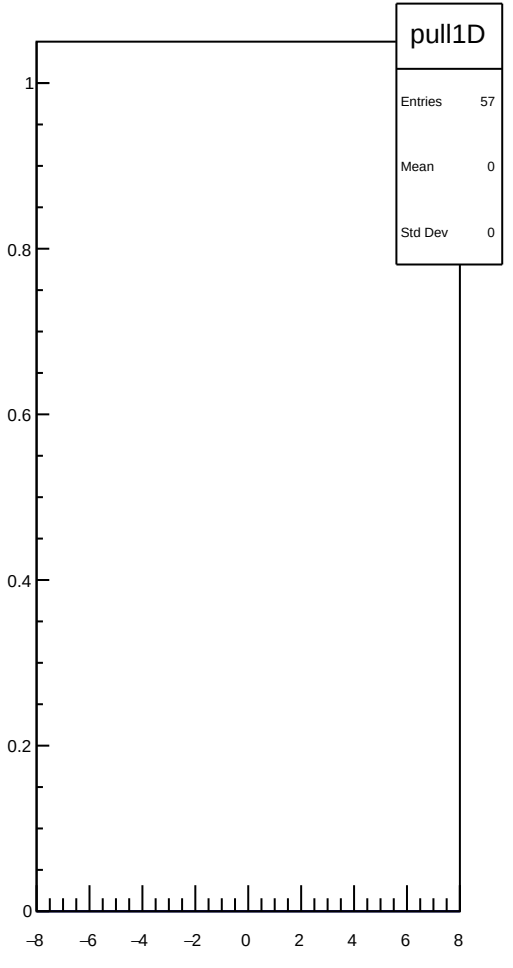

yield_bpm11X_rms vs run
χ² / ndf 7.831e+04 / 56
p0 0.02201 ± 2.191e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

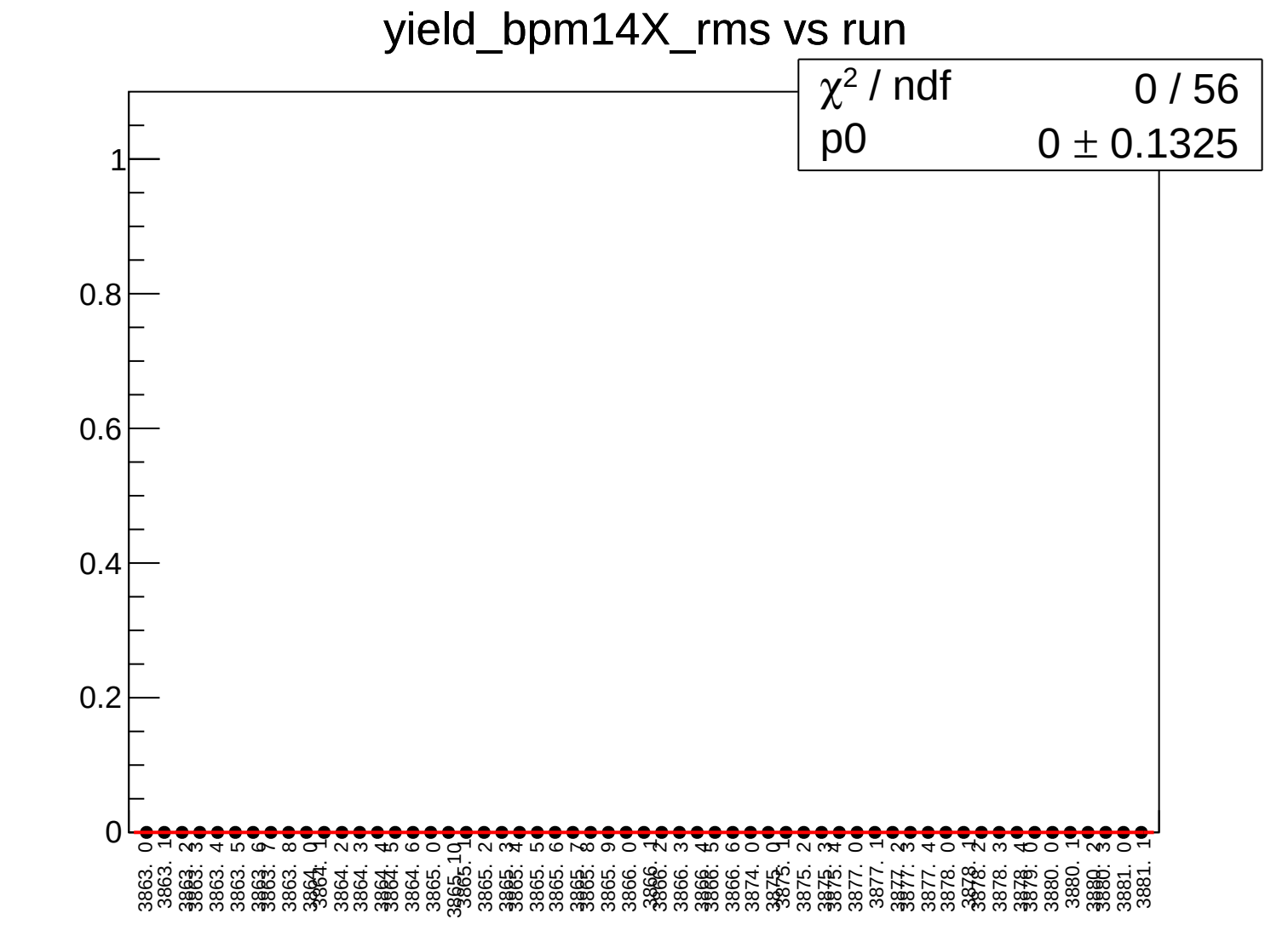

yield_bpm11Y_mean vs run
χ² / ndf 1.216e+06 / 56
p0 1.032 ± 6.019e−06
1.08
1.07
1.06
1.05
1.04
1.03
1.02
1.01
pull
Entries 57
Mean 134.9
Std Dev 99.23
300
200
100
0
−100
−200
−300

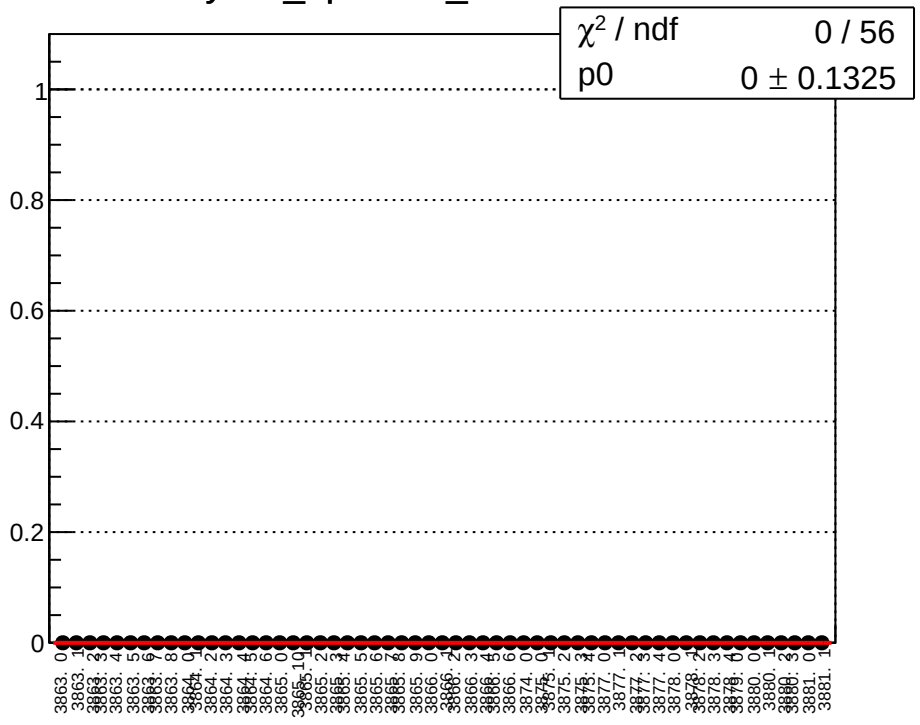

pull1D
Entries 57
Mean −0.3392
Std Dev 2.451
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

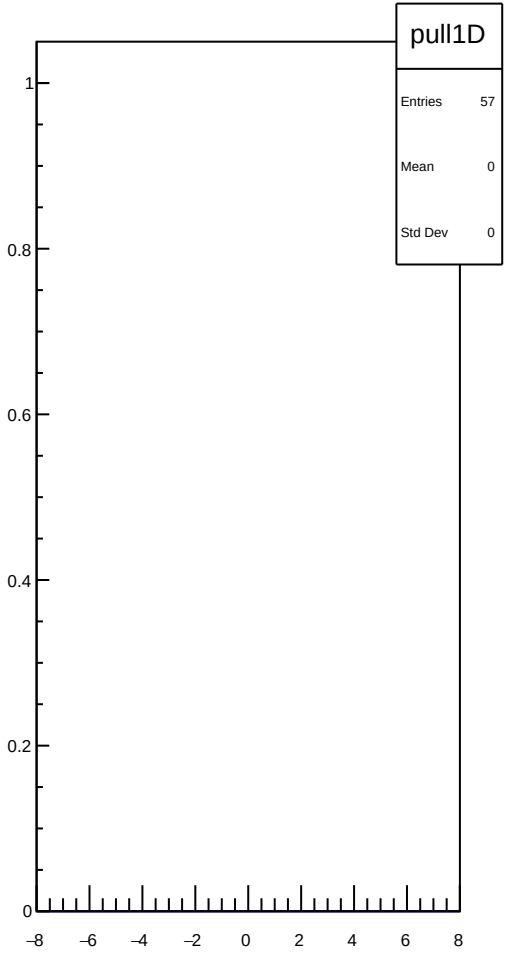

yield_bpm11Y_rms vs run
χ² / ndf 9.792e+04 / 56
p0 0.004234 ± 4.256e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

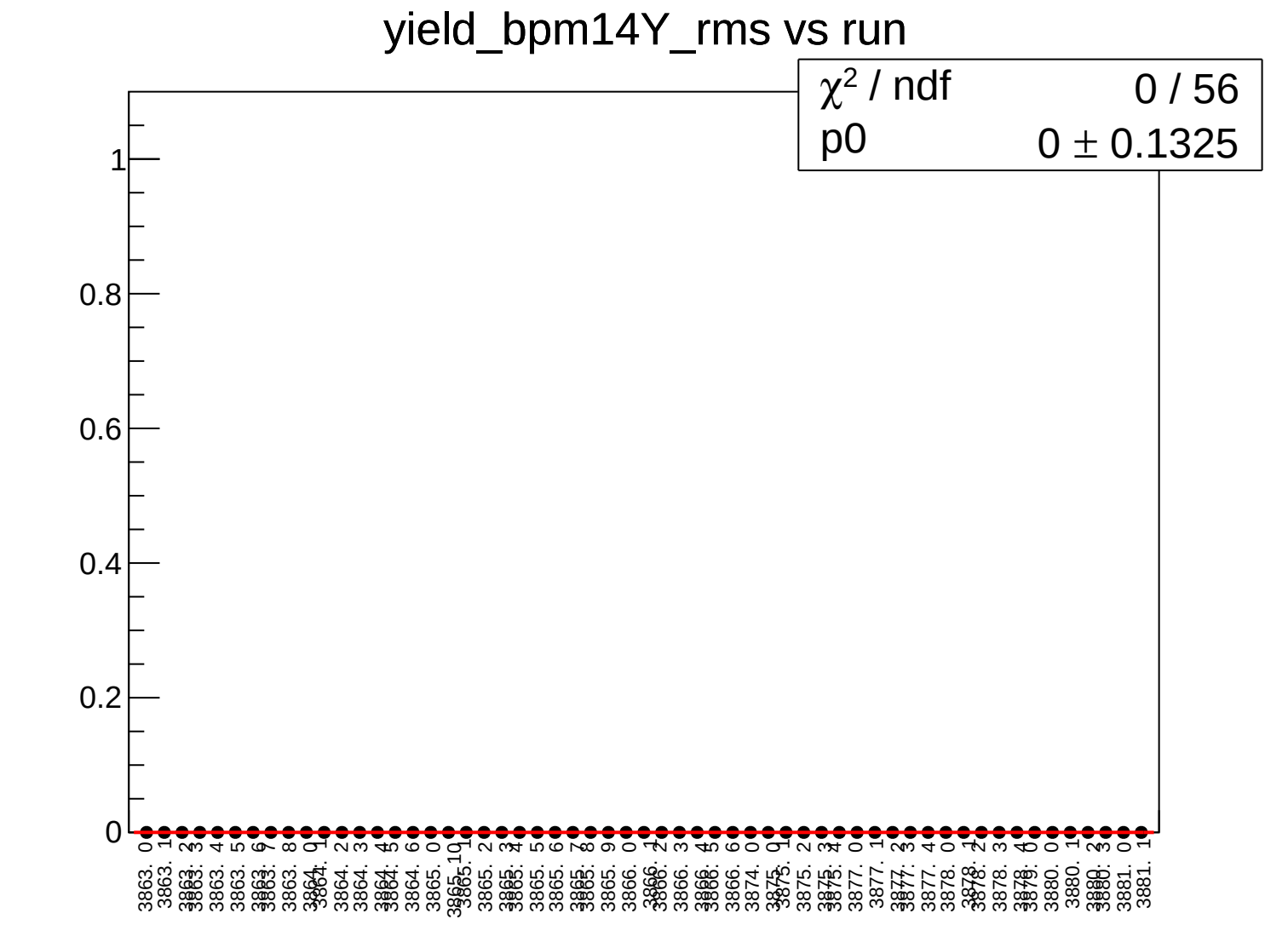

yield_bpm14X_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

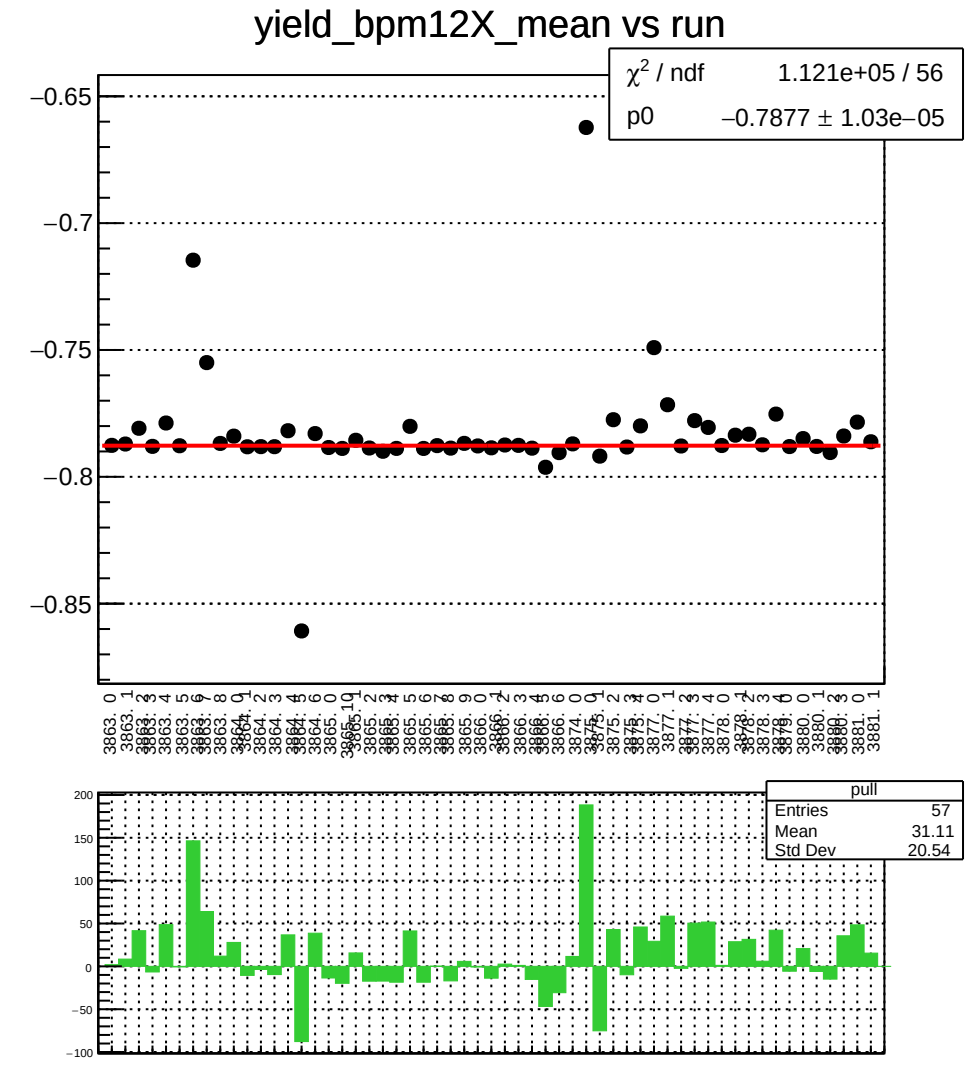

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

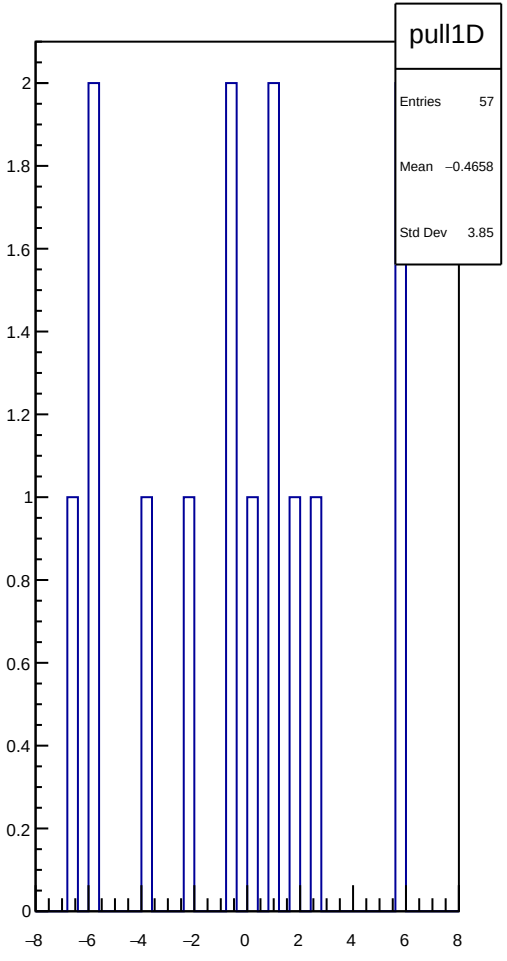

yield_bpm14X_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

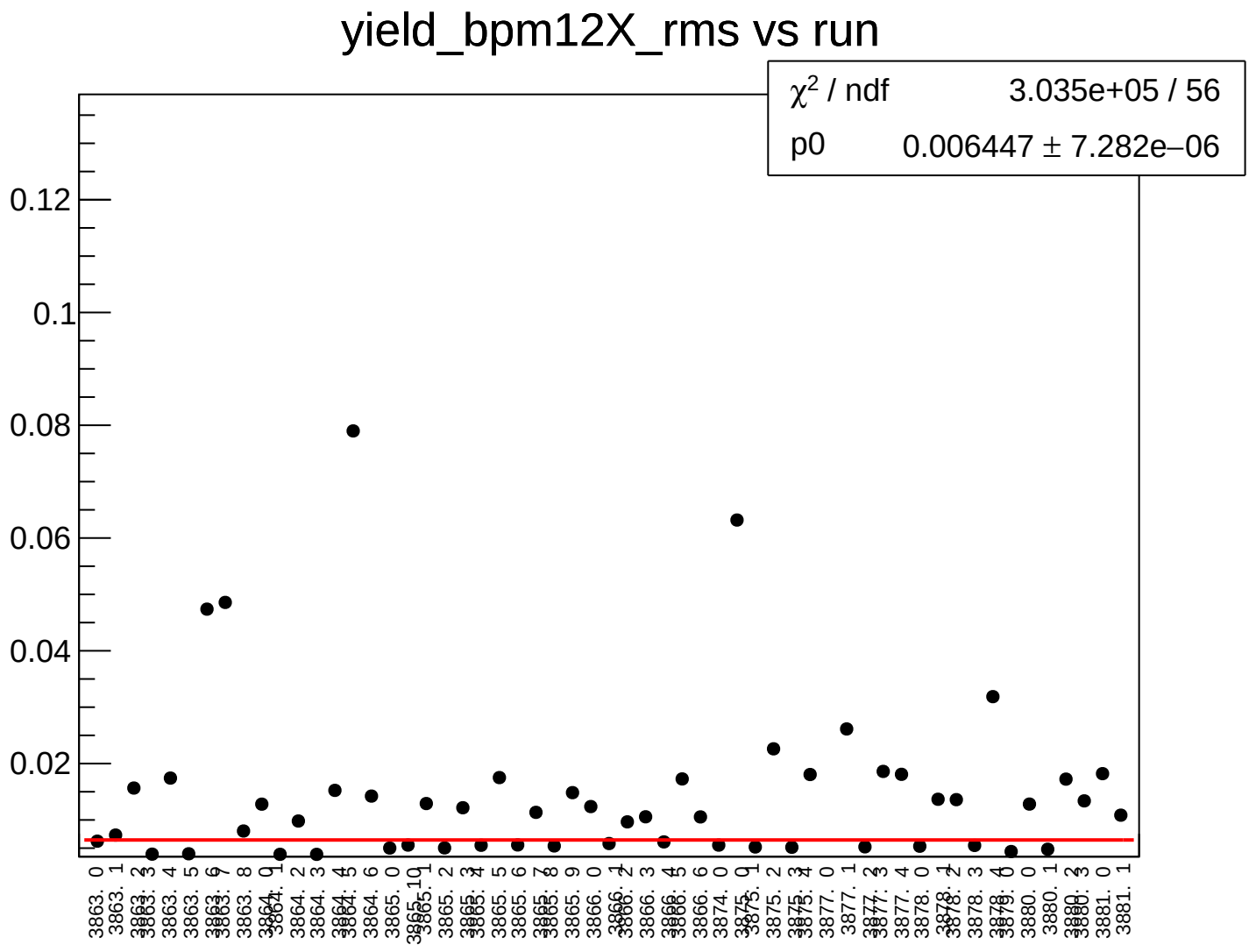

yield_bpm14Y_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

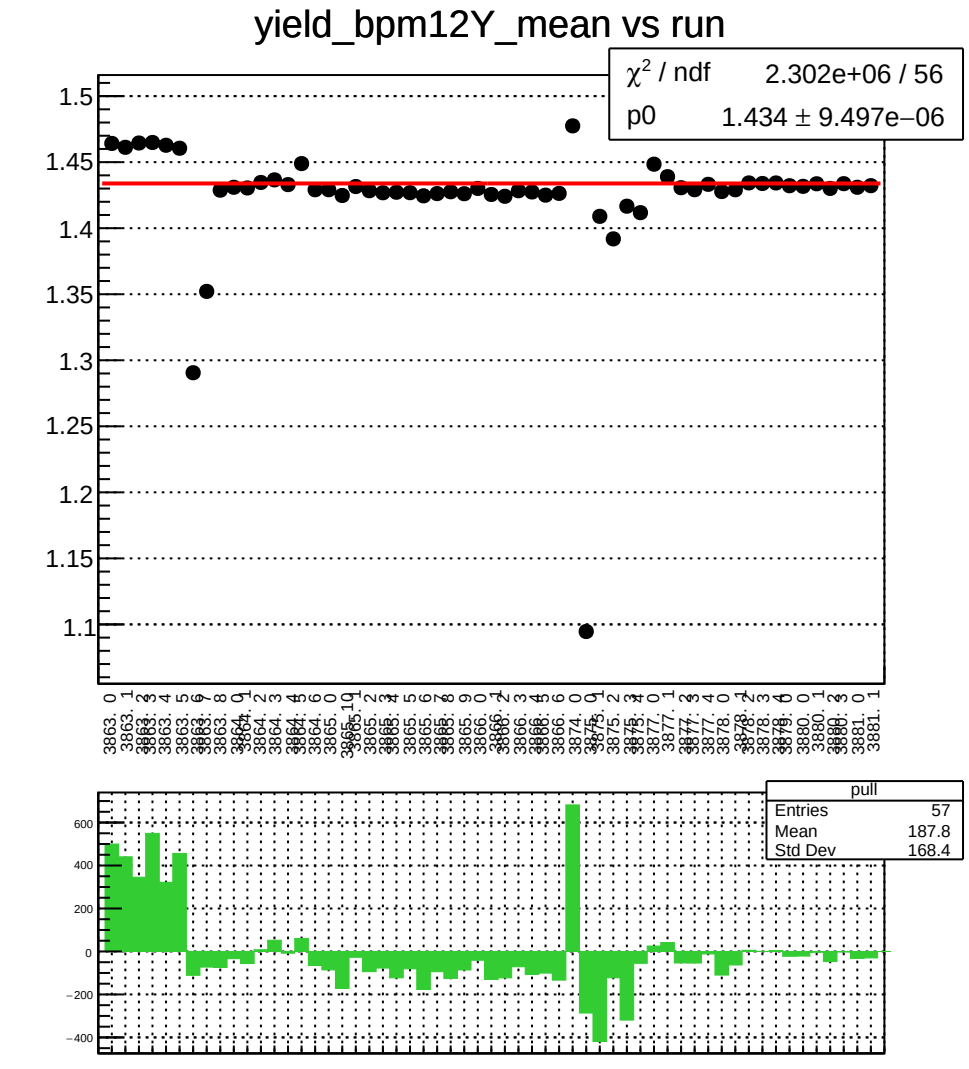

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

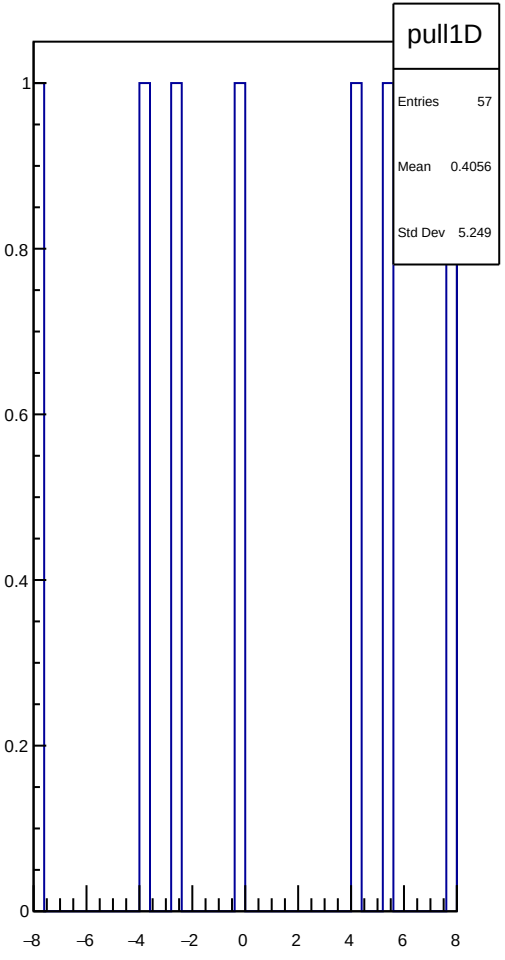

yield_bpm14Y_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

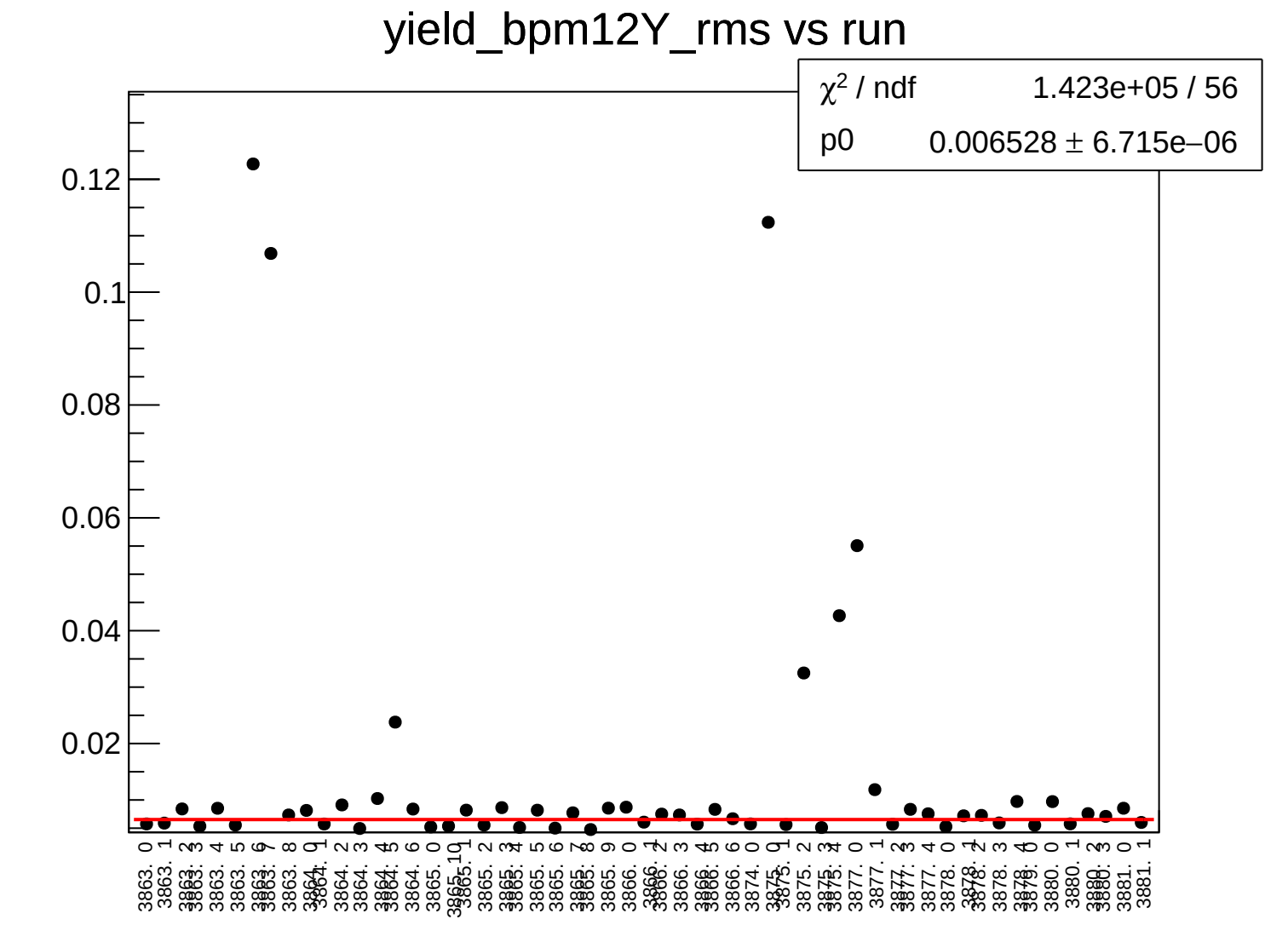

yield_bpm12X_mean vs run
χ² / ndf 1.121e+05 / 56
p0 −0.7877 ± 1.03e−05
−0.65
−0.7
−0.75
−0.8
−0.85
pull
Entries 57
Mean 31.11
Std Dev 20.54
200
150
100
50
0
−50
−100

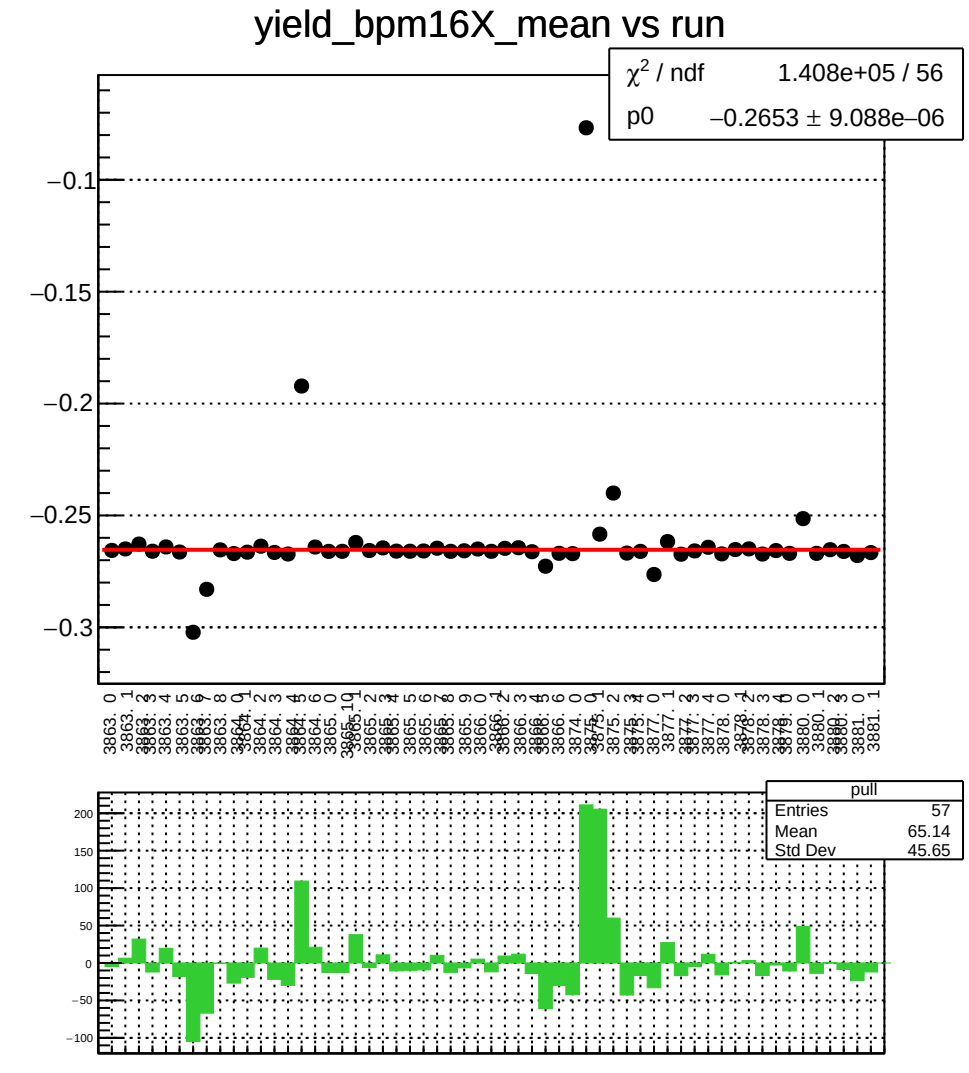

pull1D
Entries 57
Mean −0.4658
Std Dev 3.85
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

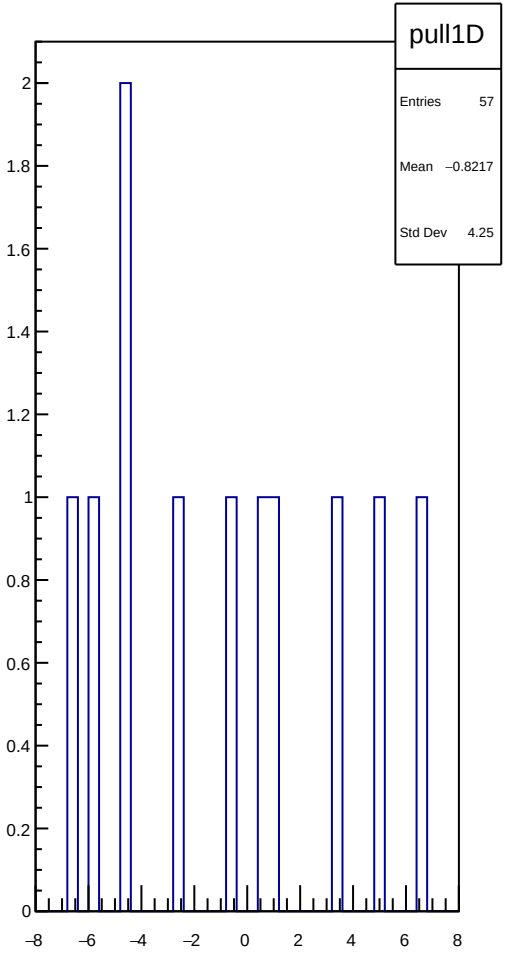

yield_bpm12X_rms vs run
χ² / ndf 3.035e+05 / 56
p0 0.006447 ± 7.282e−06
0.12
0.1
0.08
0.06
0.04
0.02

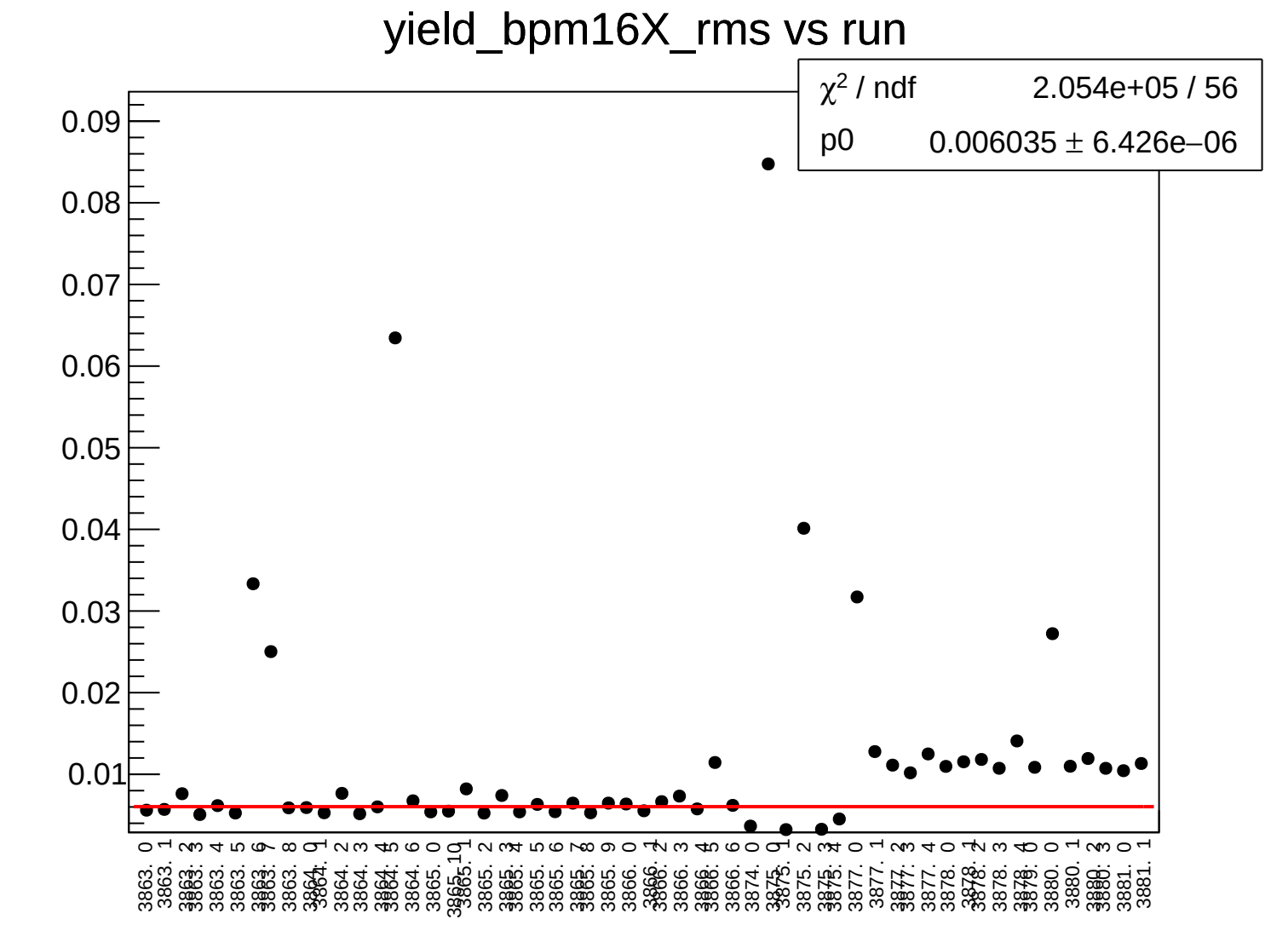

yield_bpm12Y_mean vs run
χ² / ndf 2.302e+06 / 56
p0 1.434 ± 9.497e−06
pull
Entries 57
Mean 187.8
Std Dev 168.4

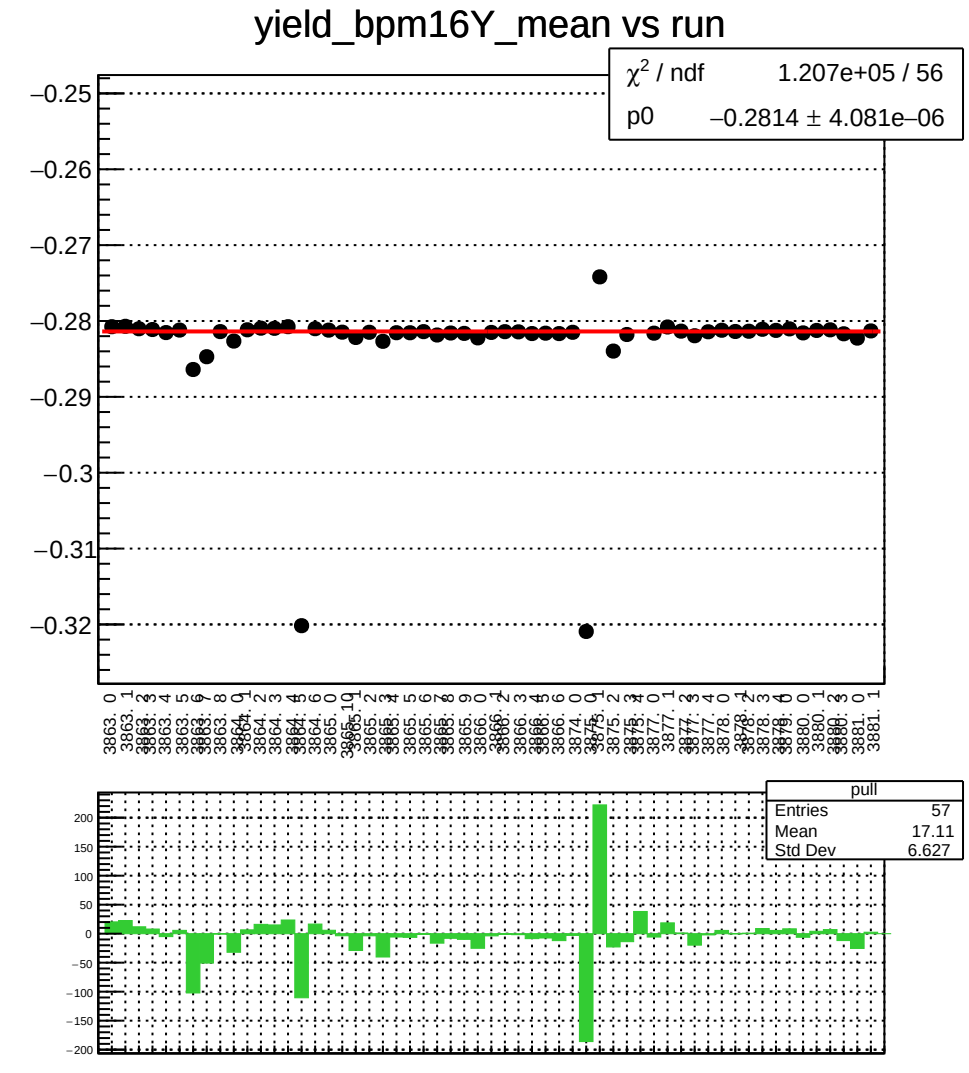

pull1D
Entries 57
Mean 0.4056
Std Dev 5.249

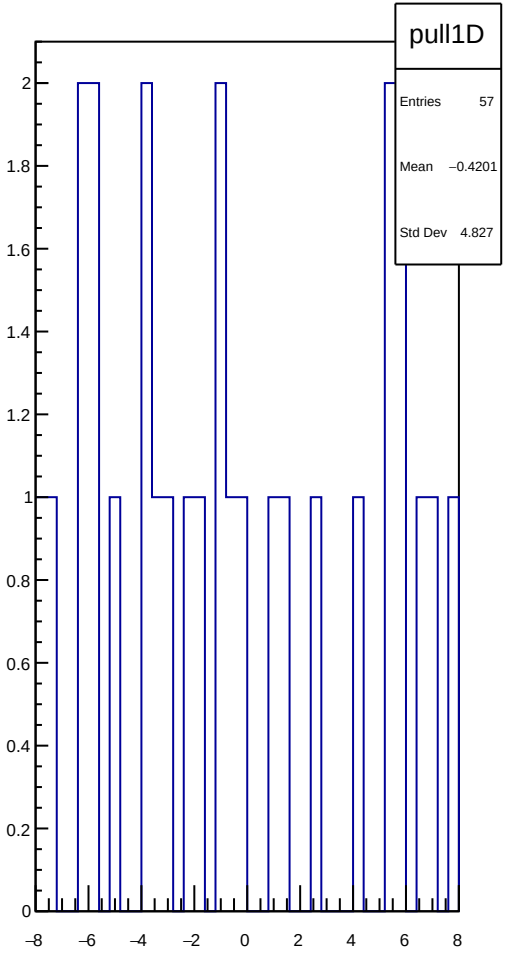

yield_bpm12Y_rms vs run
χ² / ndf 1.423e+05 / 56
p0 0.006528 ± 6.715e−06
0.12
0.1
0.08
0.06
0.04
0.02

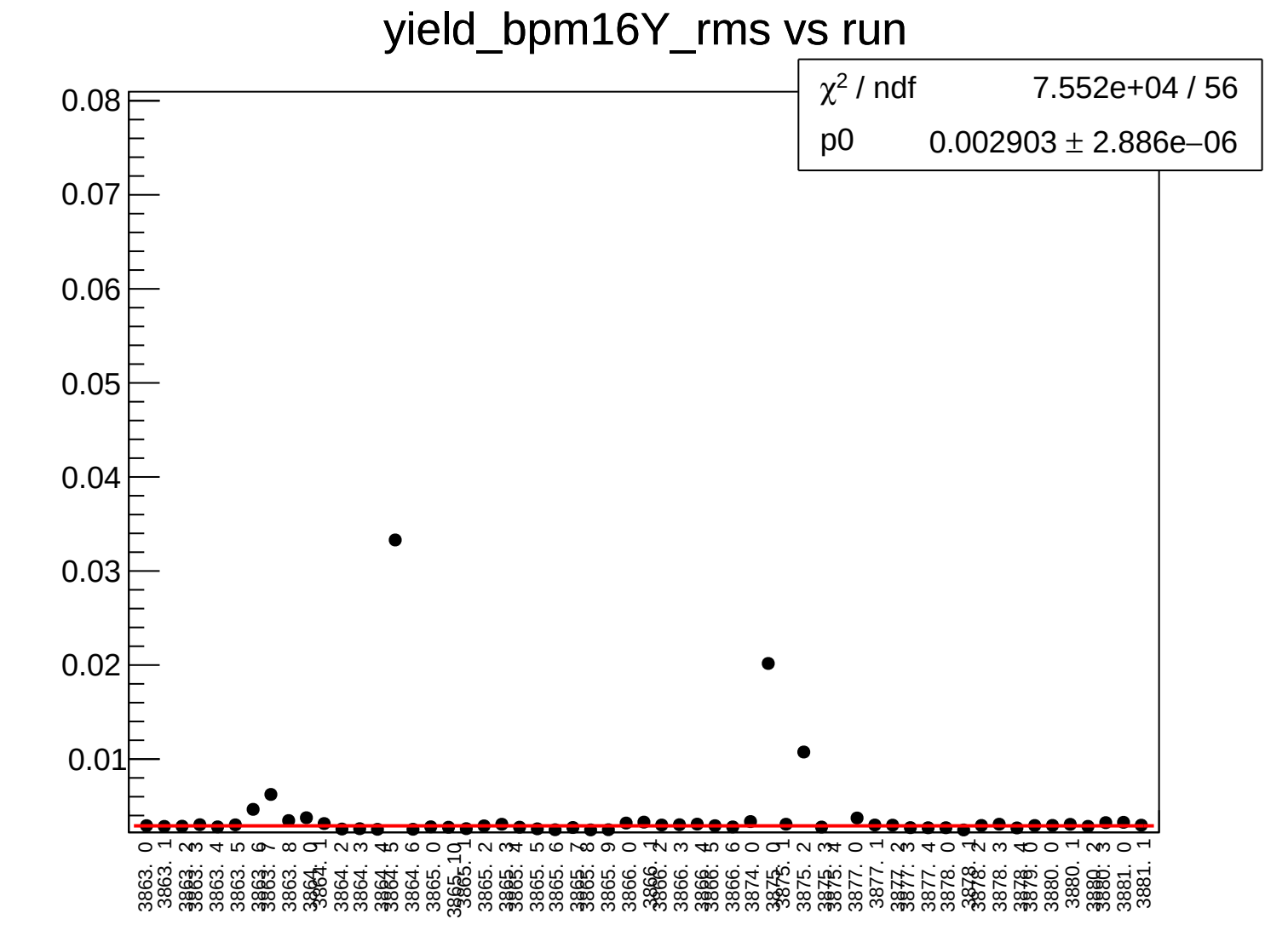

yield_bpm16X_mean vs run
χ² / ndf 1.408e+05 / 56
p0 −0.2653 ± 9.088e−06
pull
Entries 57
Mean 65.14
Std Dev 45.65

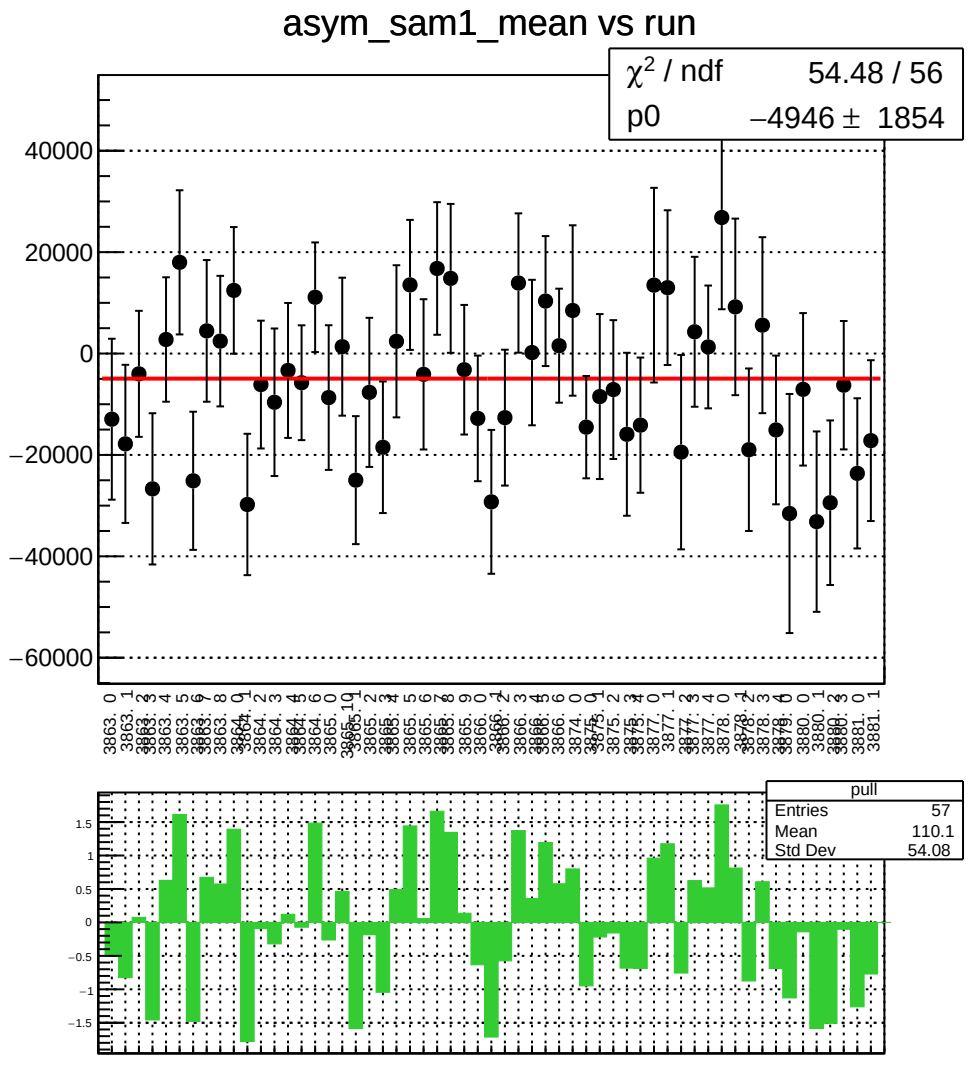

pull1D
Entries 57
Mean −0.8217
Std Dev 4.25

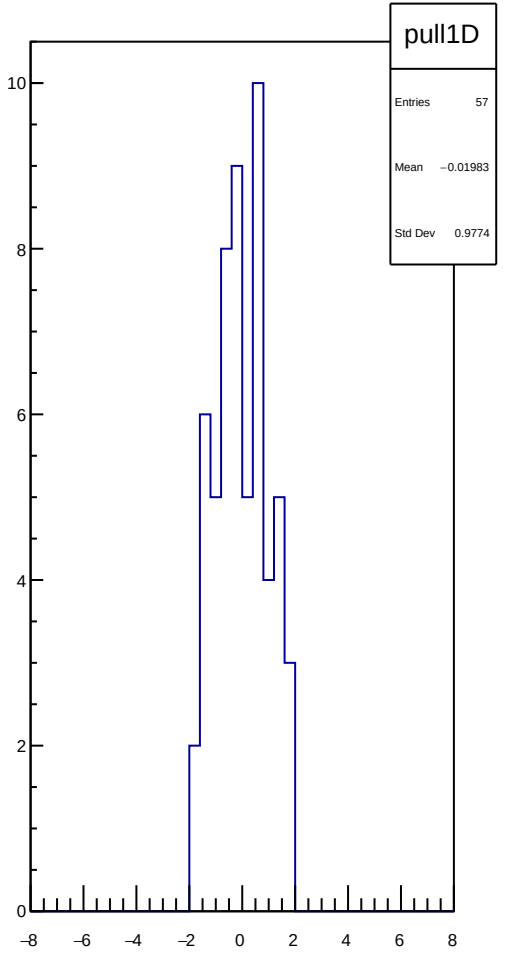

yield_bpm16X_rms vs run
χ² / ndf 2.054e+05 / 56
p0 0.006035 ± 6.426e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

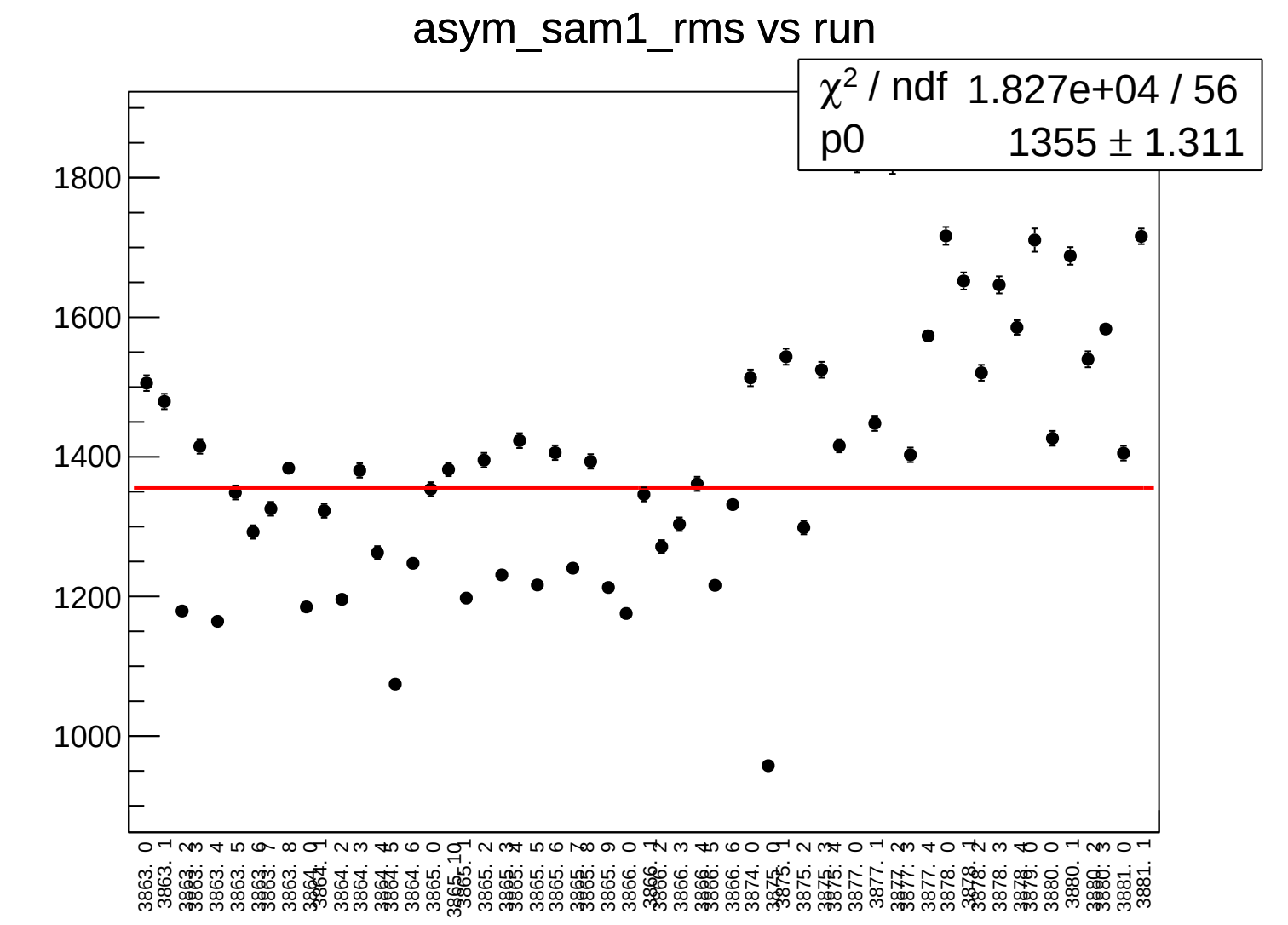

yield_bpm16Y_mean vs run
χ² / ndf 1.207e+05 / 56
p0 −0.2814 ± 4.081e−06
pull
Entries 57
Mean 17.11
Std Dev 6.627

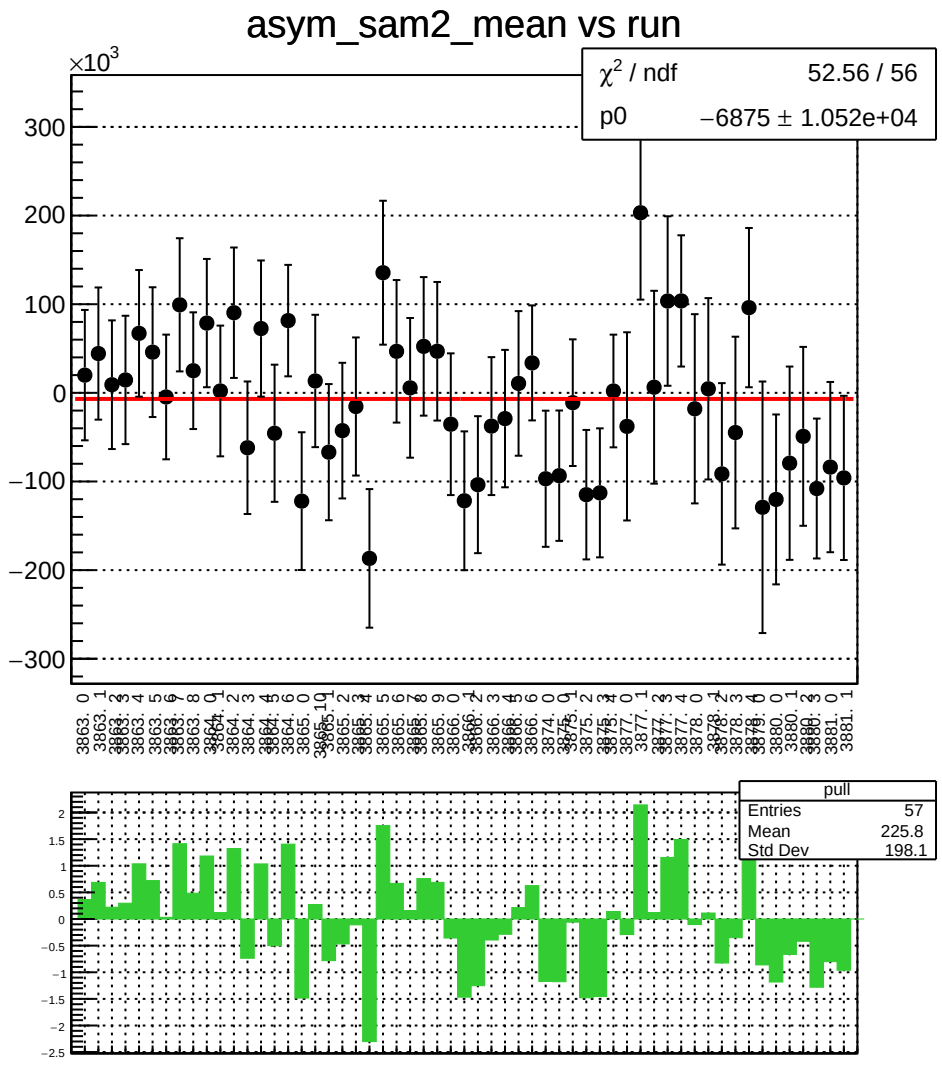

pull1D
Entries 57
Mean −0.4201
Std Dev 4.827

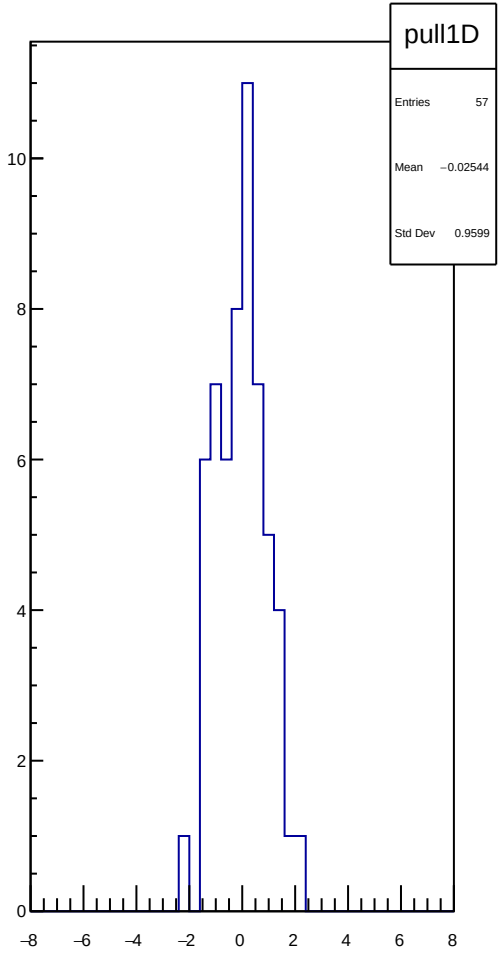

yield_bpm16Y_rms vs run
χ² / ndf 7.552e+04 / 56
p0 0.002903 ± 2.886e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

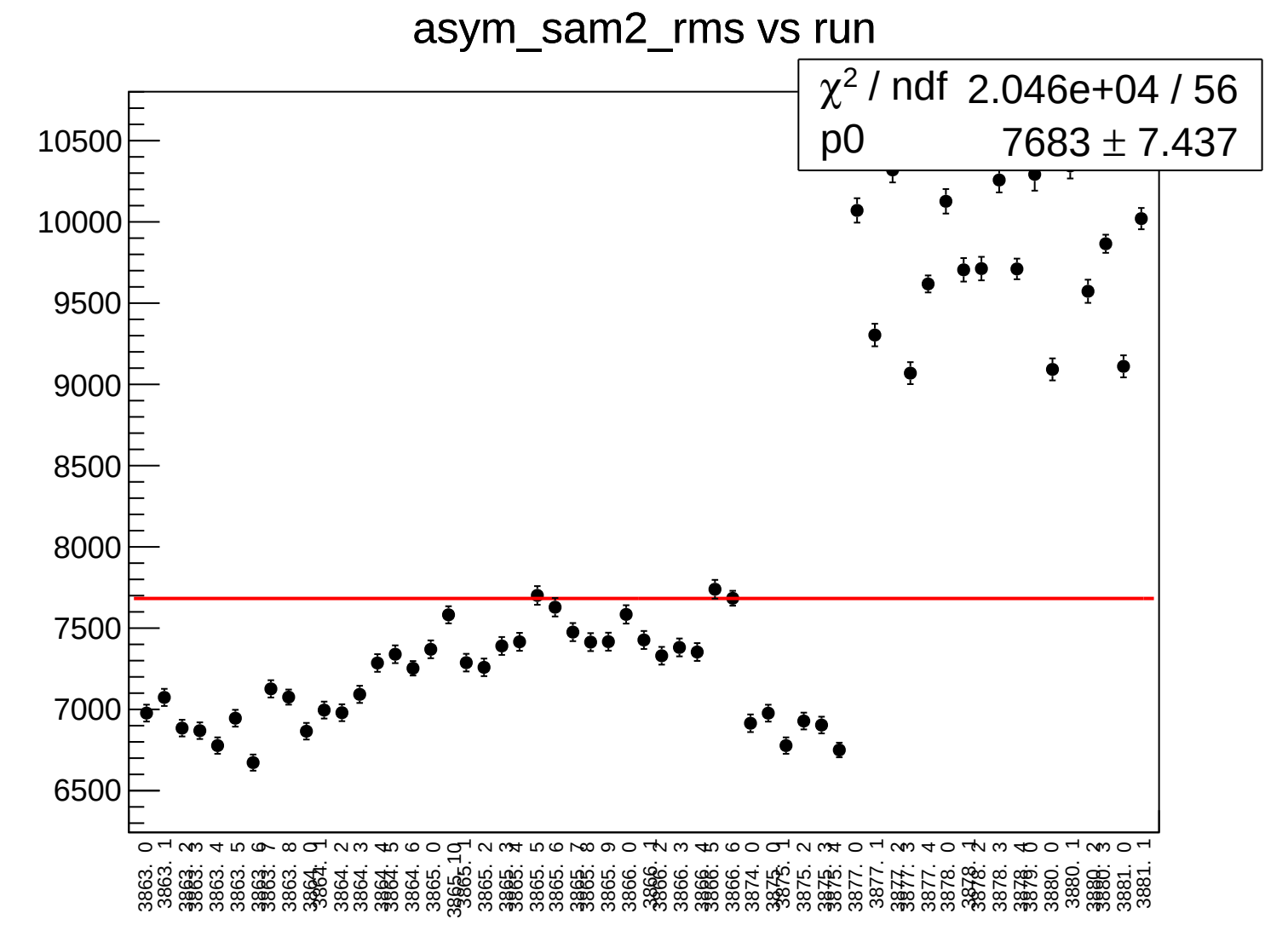

asym_sam1_mean vs run
χ² / ndf 54.48 / 56
p0 −4946 ± 1854
40000
20000
0
−20000
−40000
−60000
pull
Entries 57
Mean 110.1
Std Dev 54.08
1.5
1
0.5
0
−0.5
−1
−1.5

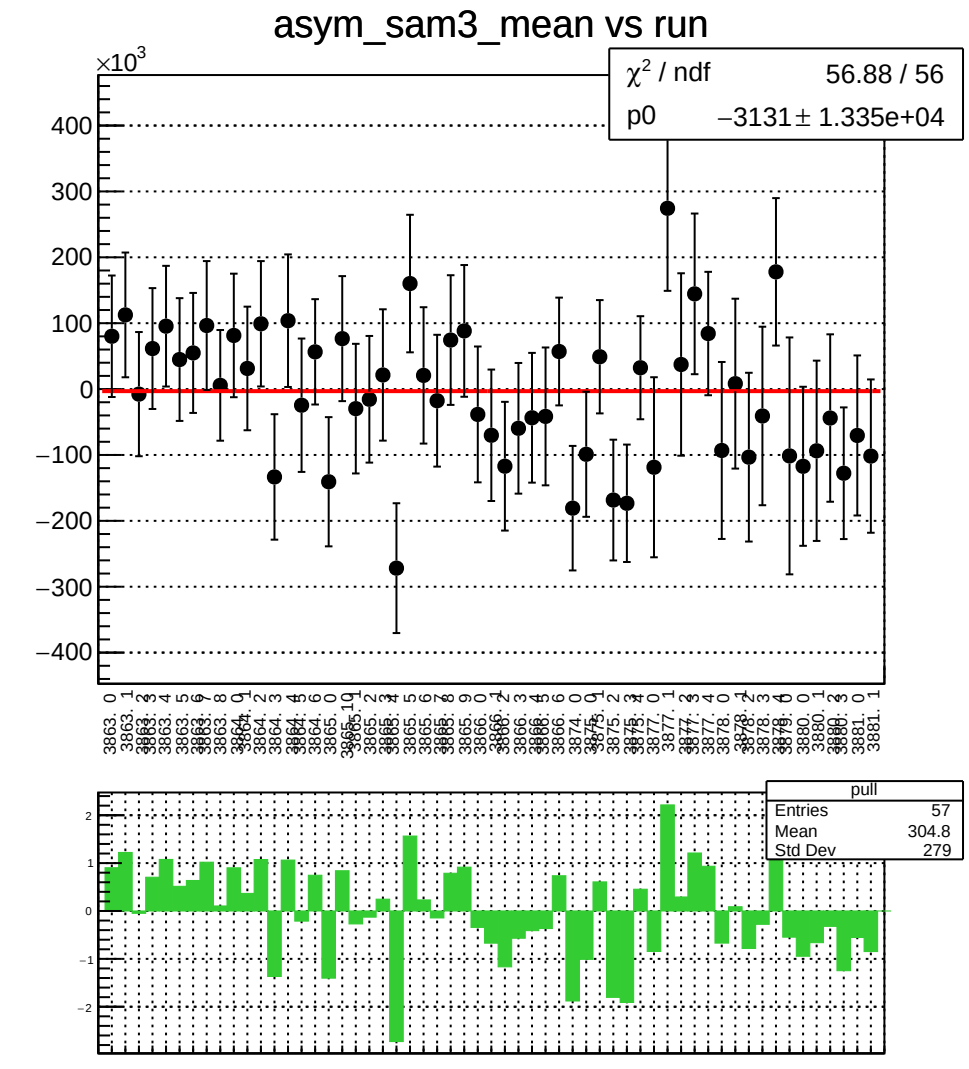

pull1D
Entries 57
Mean −0.01983
Std Dev 0.9774
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

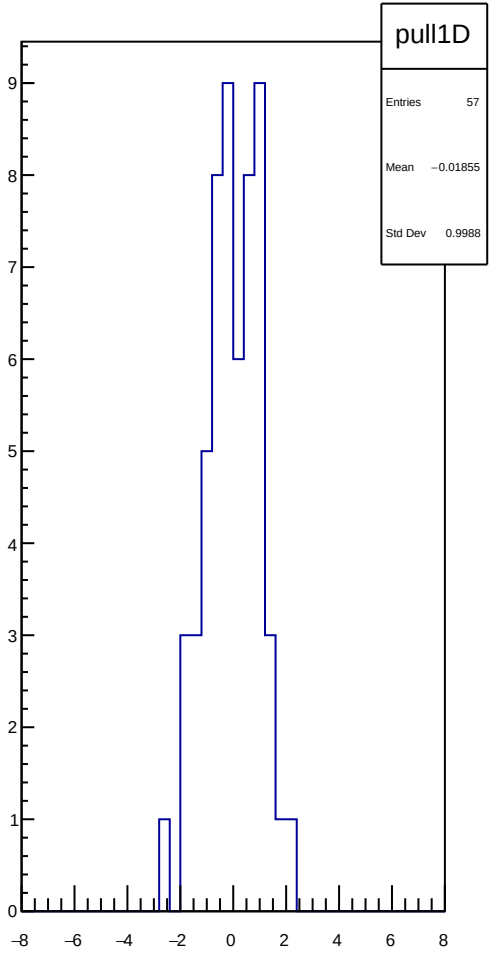

asym_sam1_rms vs run
χ² / ndf 1.827e+04 / 56
p0 1355 ± 1.311
1800
1600
1400
1200
1000

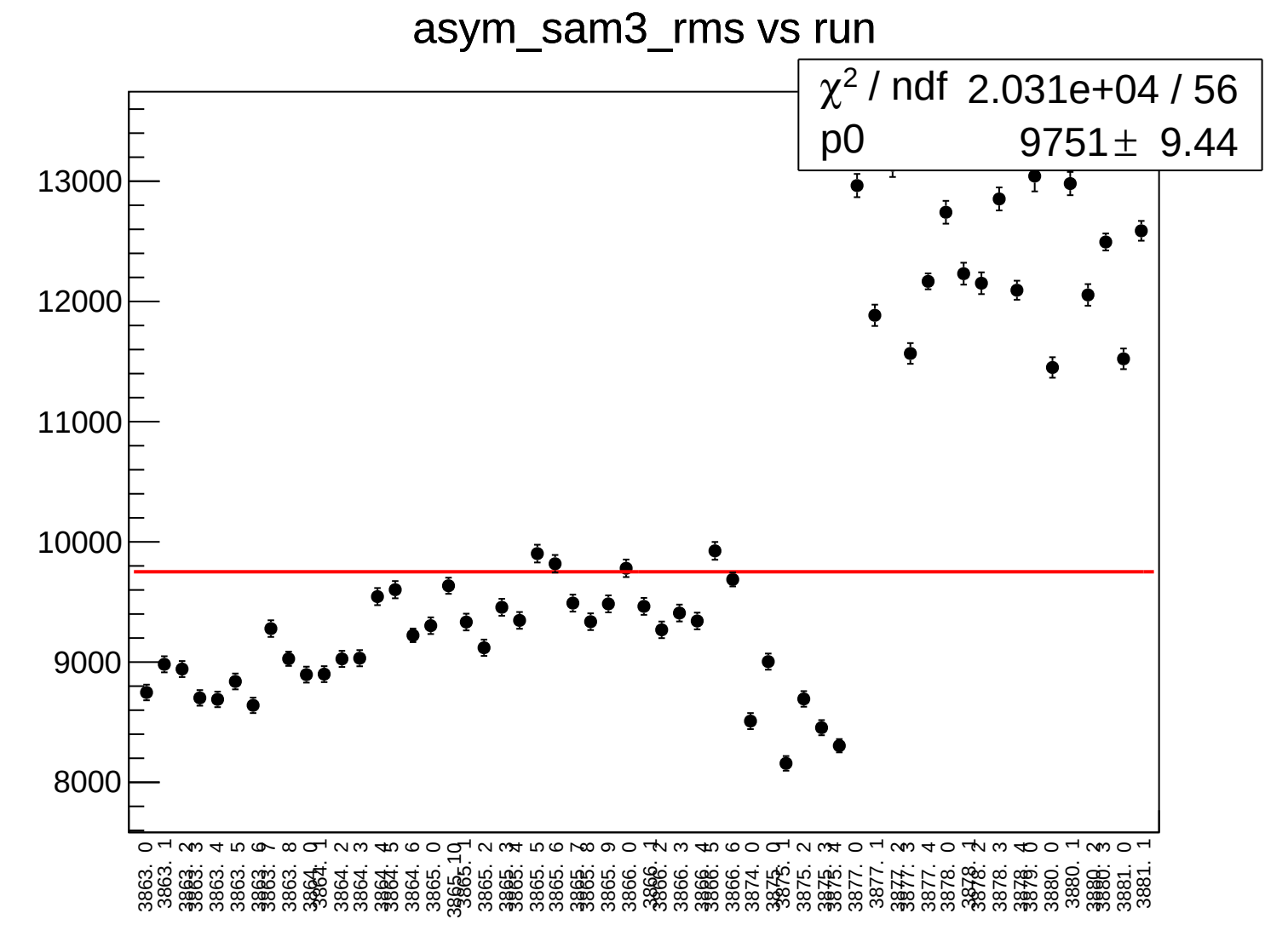

asym_sam2_mean vs run
×10^3
χ² / ndf 52.56 / 56
p0 −6875 ± 1.052e+04
300
200
100
0
−100
−200
−300
pull
Entries 57
Mean 225.8
Std Dev 198.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

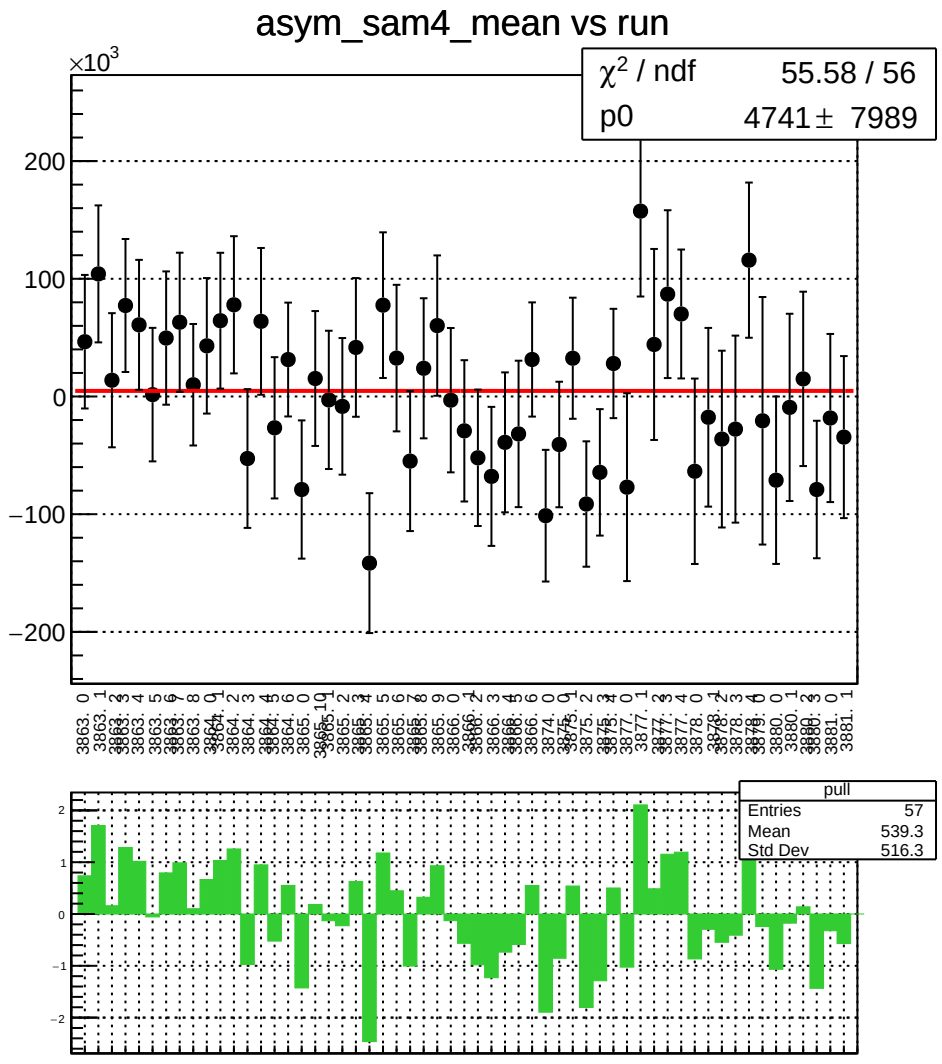

pull1D
Entries 57
Mean −0.02544
Std Dev 0.9599
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

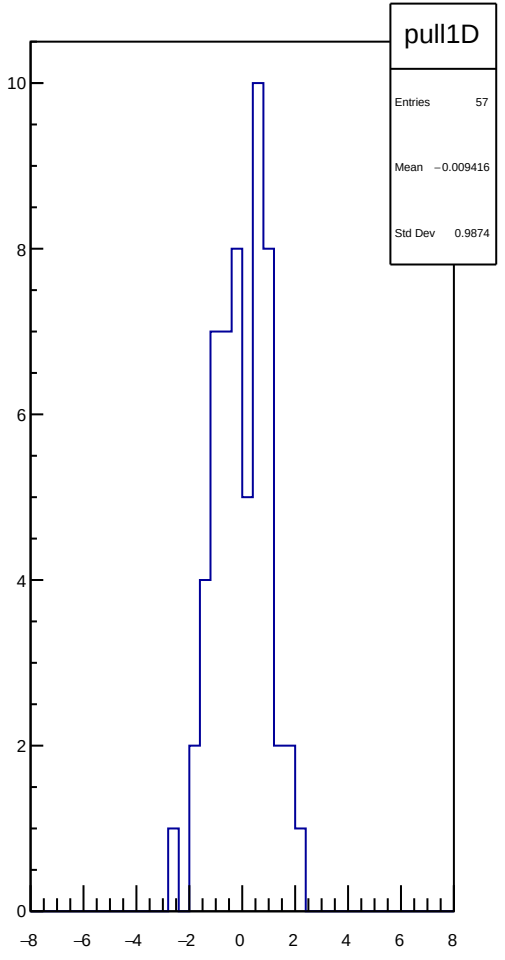

asym_sam2_rms vs run
χ² / ndf 2.046e+04 / 56
p0 7683 ± 7.437
10500
10000
9500
9000
8500
8000
7500
7000
6500

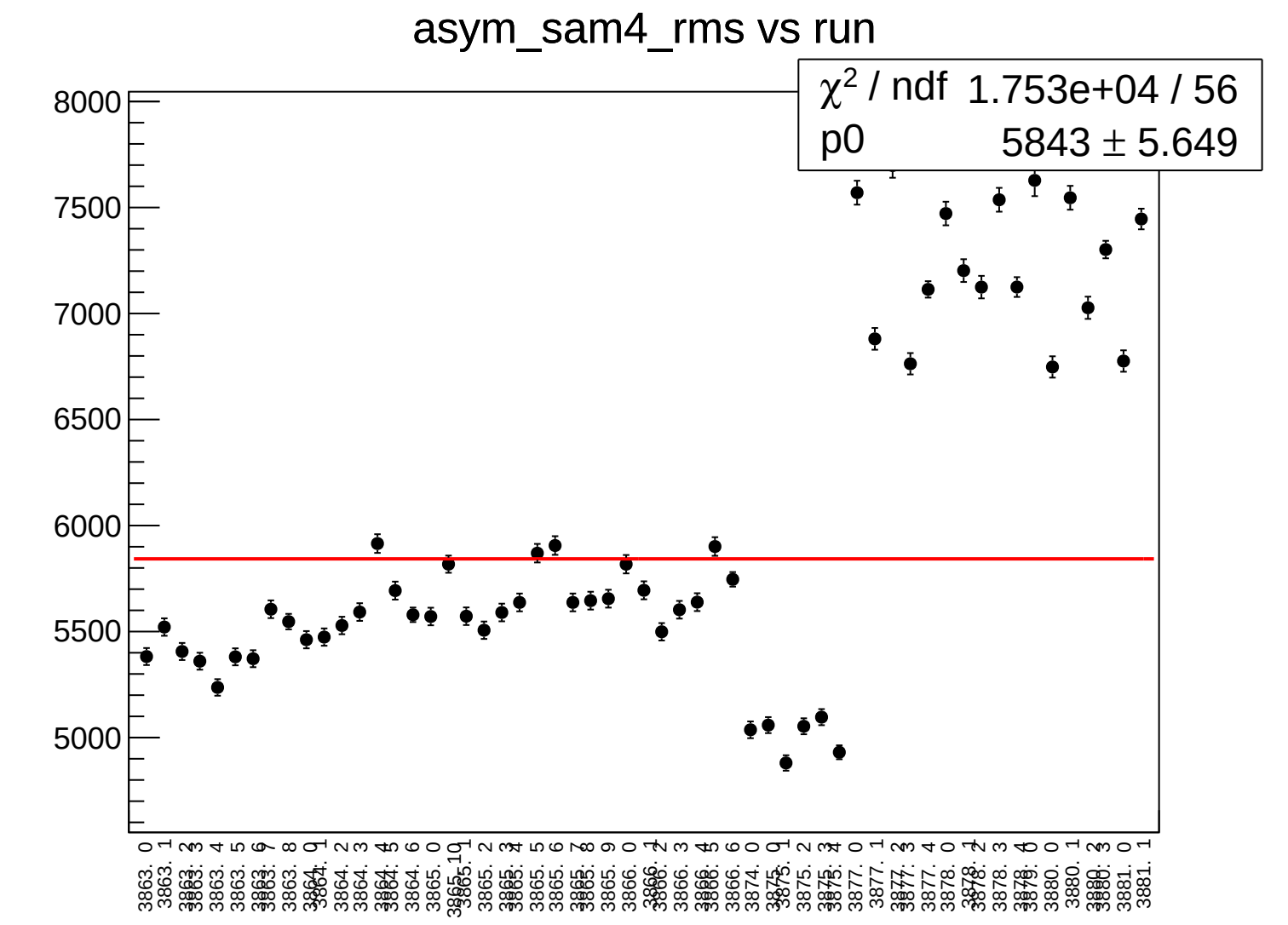

asym_sam3_mean vs run
×10^3
χ² / ndf 56.88 / 56
p0 −3131 ± 1.335e+04
pull
Entries 57
Mean 304.8
Std Dev 279

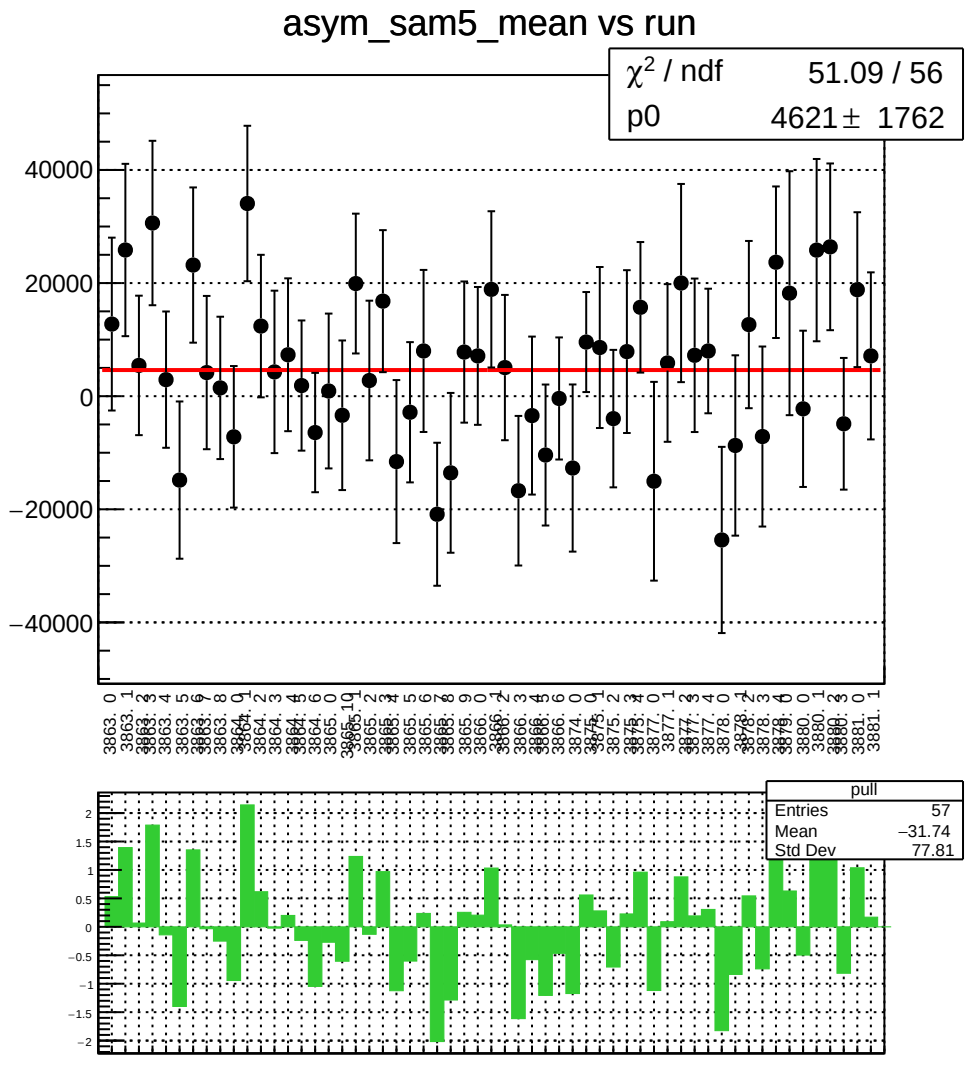

pull1D
Entries 57
Mean −0.01855
Std Dev 0.9988

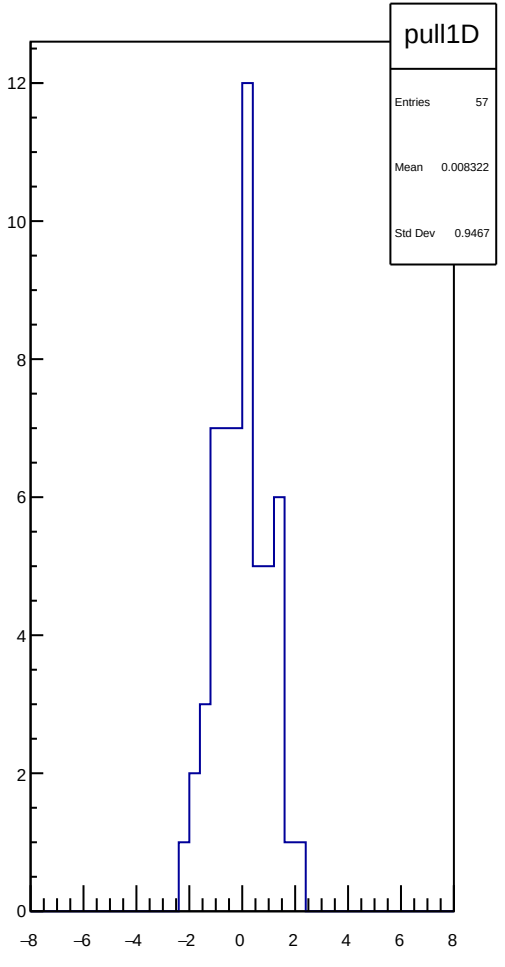

asym_sam3_rms vs run
χ² / ndf 2.031e+04 / 56
p0 9751 ± 9.44
13000
12000
11000
10000
9000
8000
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

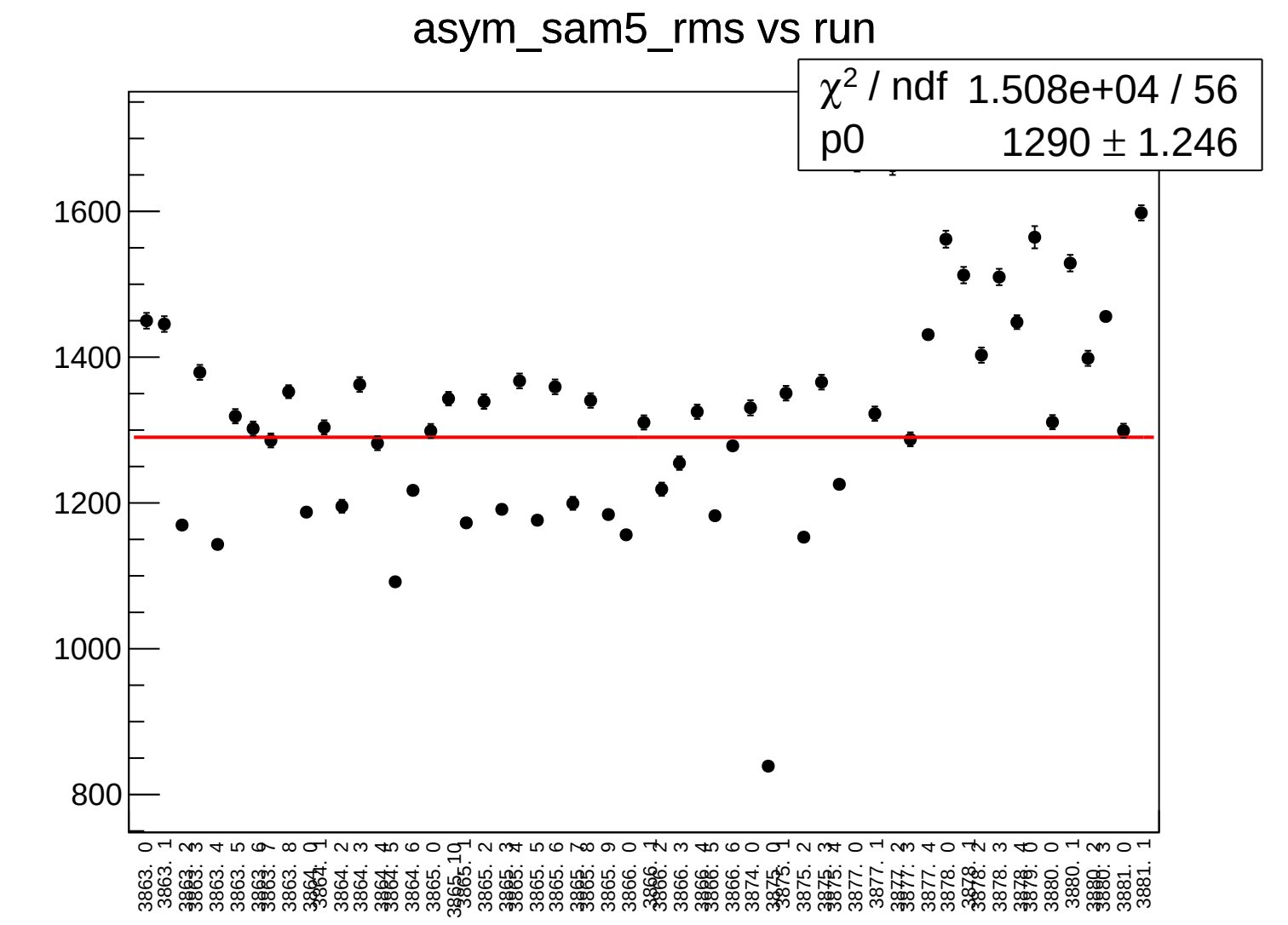

asym_sam4_mean vs run
×10^3
χ^2 / ndf 55.58 / 56
p0 4741 ± 7989
200
100
0
−100
−200
pull
Entries 57
Mean 539.3
Std Dev 516.3
2
1
0
−1
−2

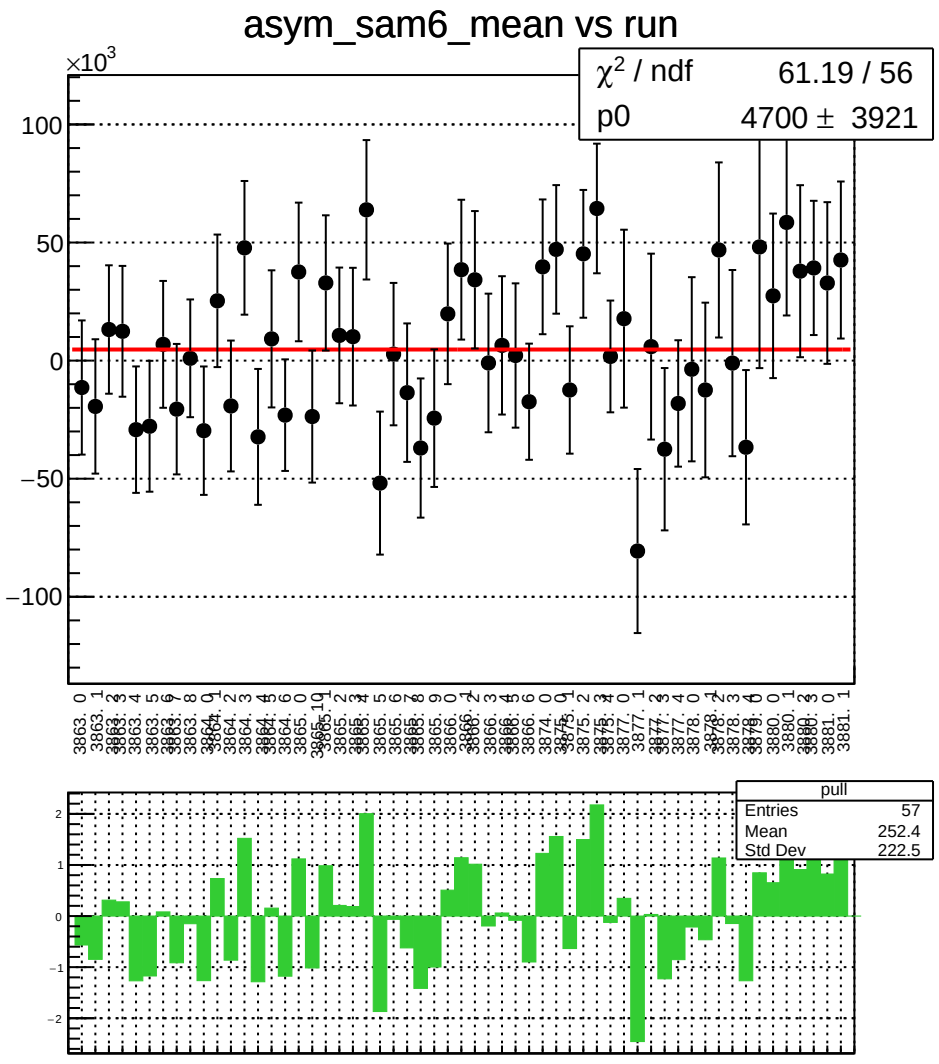

pull1D
Entries 57
Mean −0.009416
Std Dev 0.9874
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

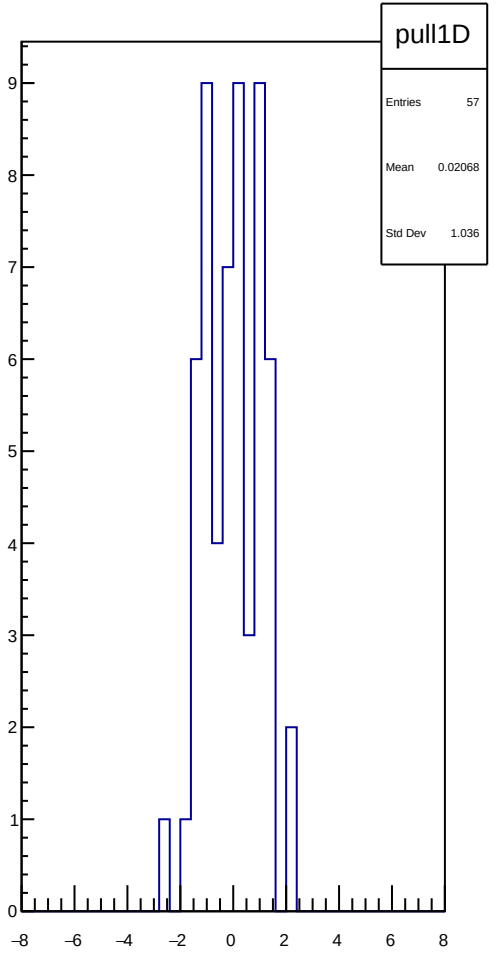

asym_sam4_rms vs run
χ² / ndf 1.753e+04 / 56
p0 5843 ± 5.649
8000
7500
7000
6500
6000
5500
5000
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3880. 0
3880. 1
3880. 2
3881. 0
3881. 1

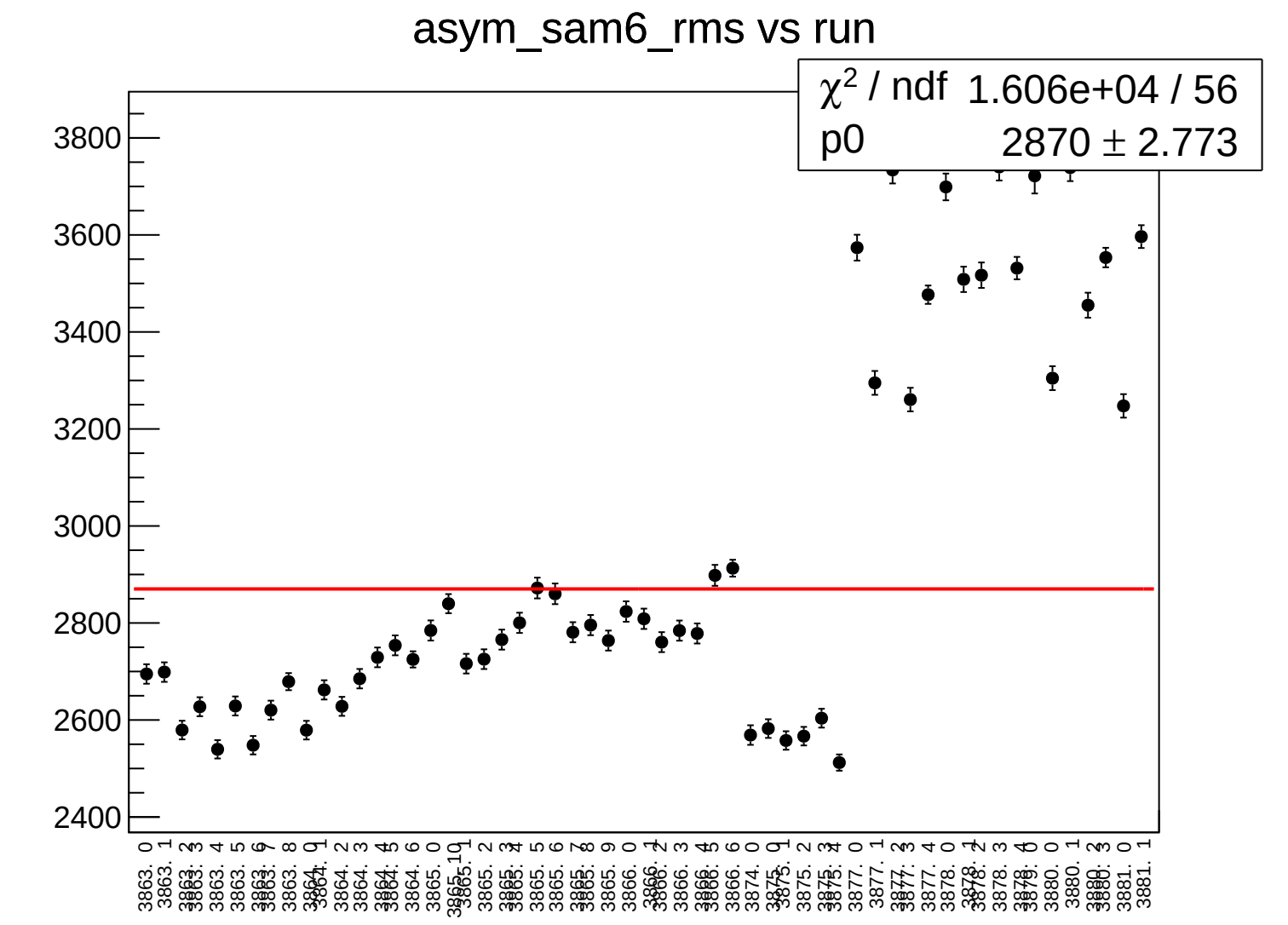

asym_sam5_mean vs run
χ² / ndf 51.09 / 56
p0 4621 ± 1762
40000
20000
0
−20000
−40000
pull
Entries 57
Mean −31.74
Std Dev 77.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

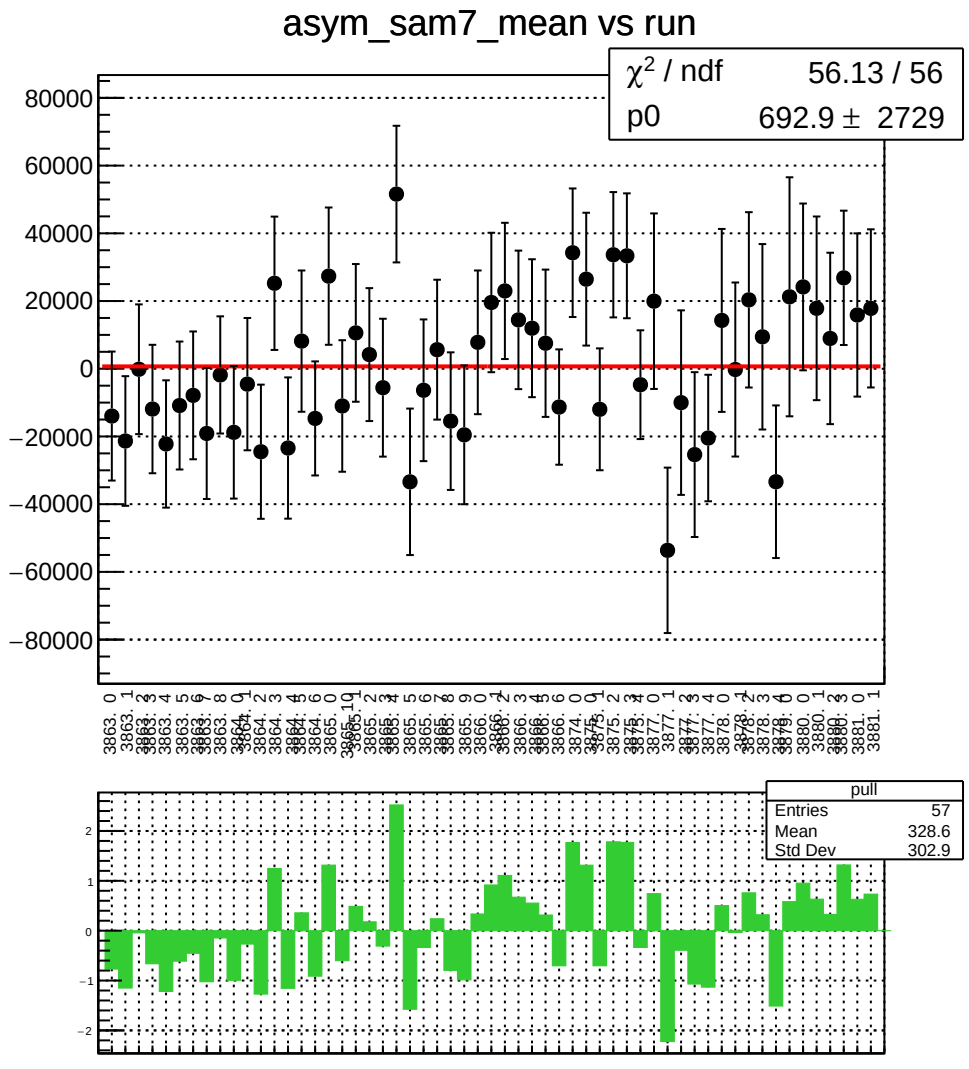

pull1D
Entries 57
Mean 0.008322
Std Dev 0.9467
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

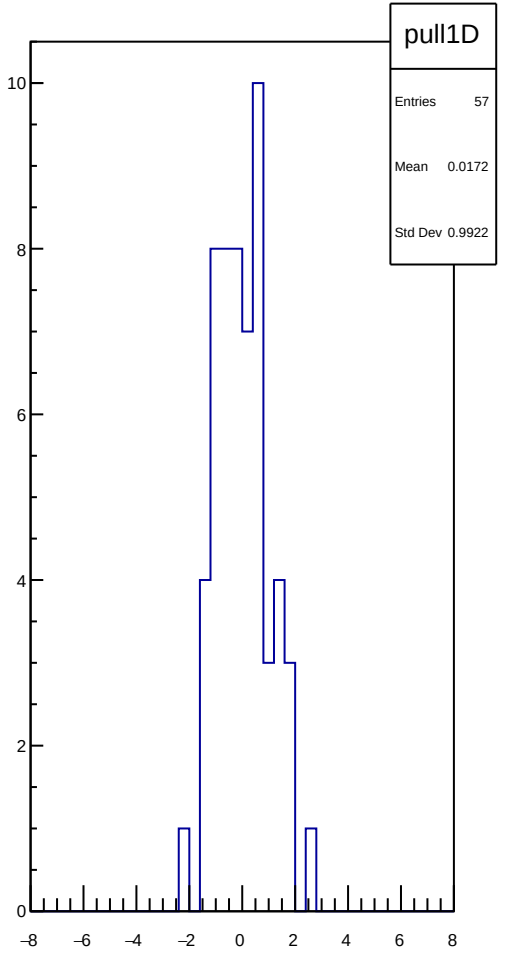

asym_sam5_rms vs run
χ² / ndf 1.508e+04 / 56
p0 1290 ± 1.246
1600
1400
1200
1000
800

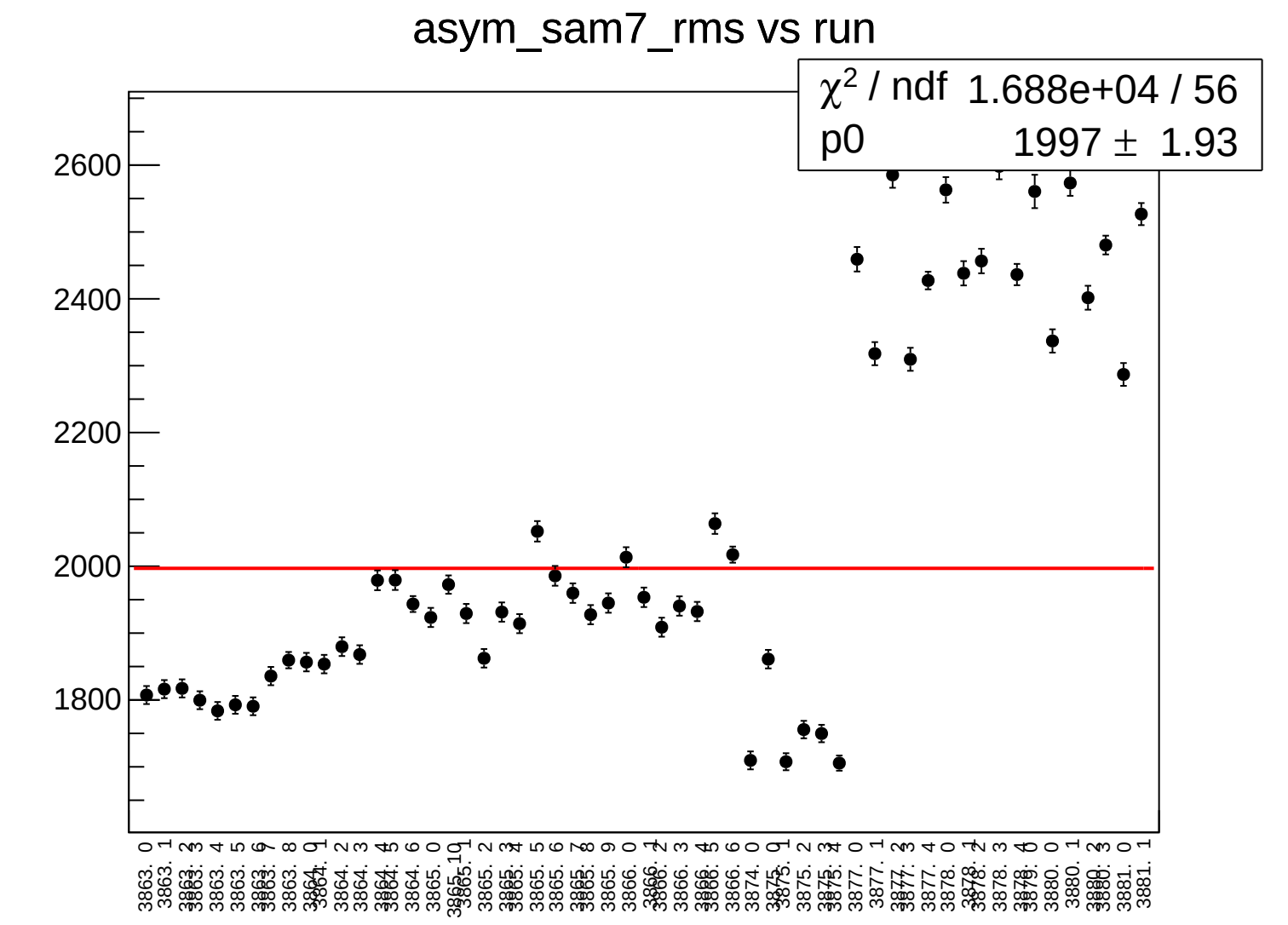

asym_sam6_mean vs run
×10^3
χ² / ndf 61.19 / 56
p0 4700 ± 3921
100
50
0
−50
−100
pull
Entries 57
Mean 252.4
Std Dev 222.5
2
1
0
−1
−2

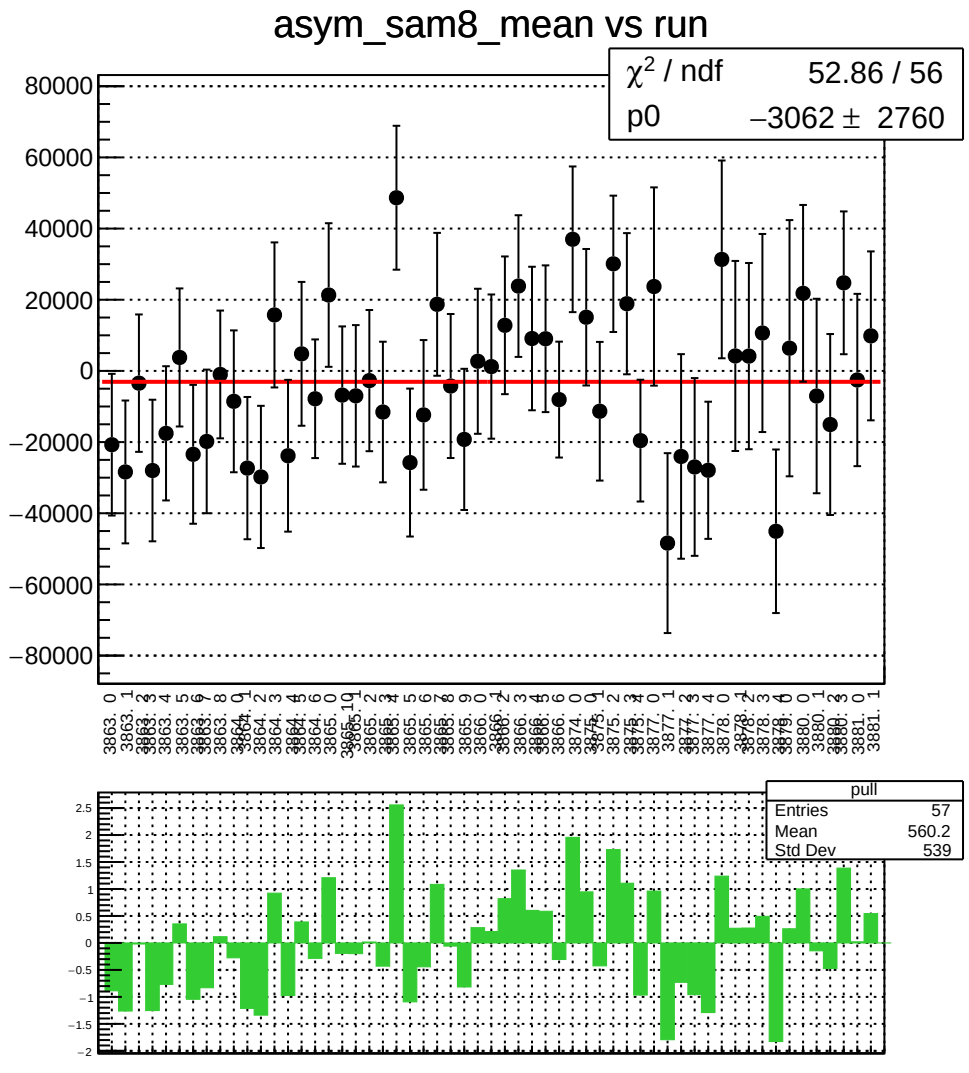

pull1D
Entries 57
Mean 0.02068
Std Dev 1.036
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

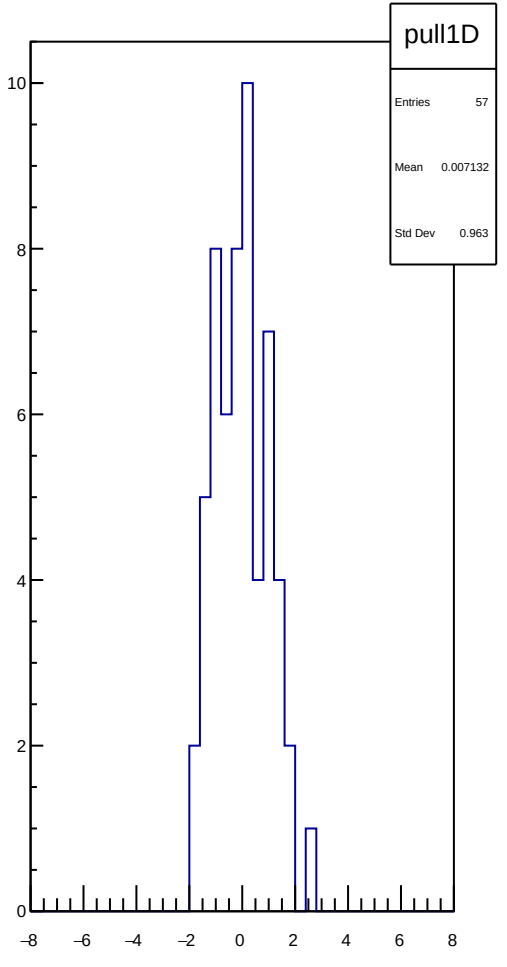

asym_sam6_rms vs run
χ² / ndf 1.606e+04 / 56
p0 2870 ± 2.773
3800
3600
3400
3200
3000
2800
2600
2400

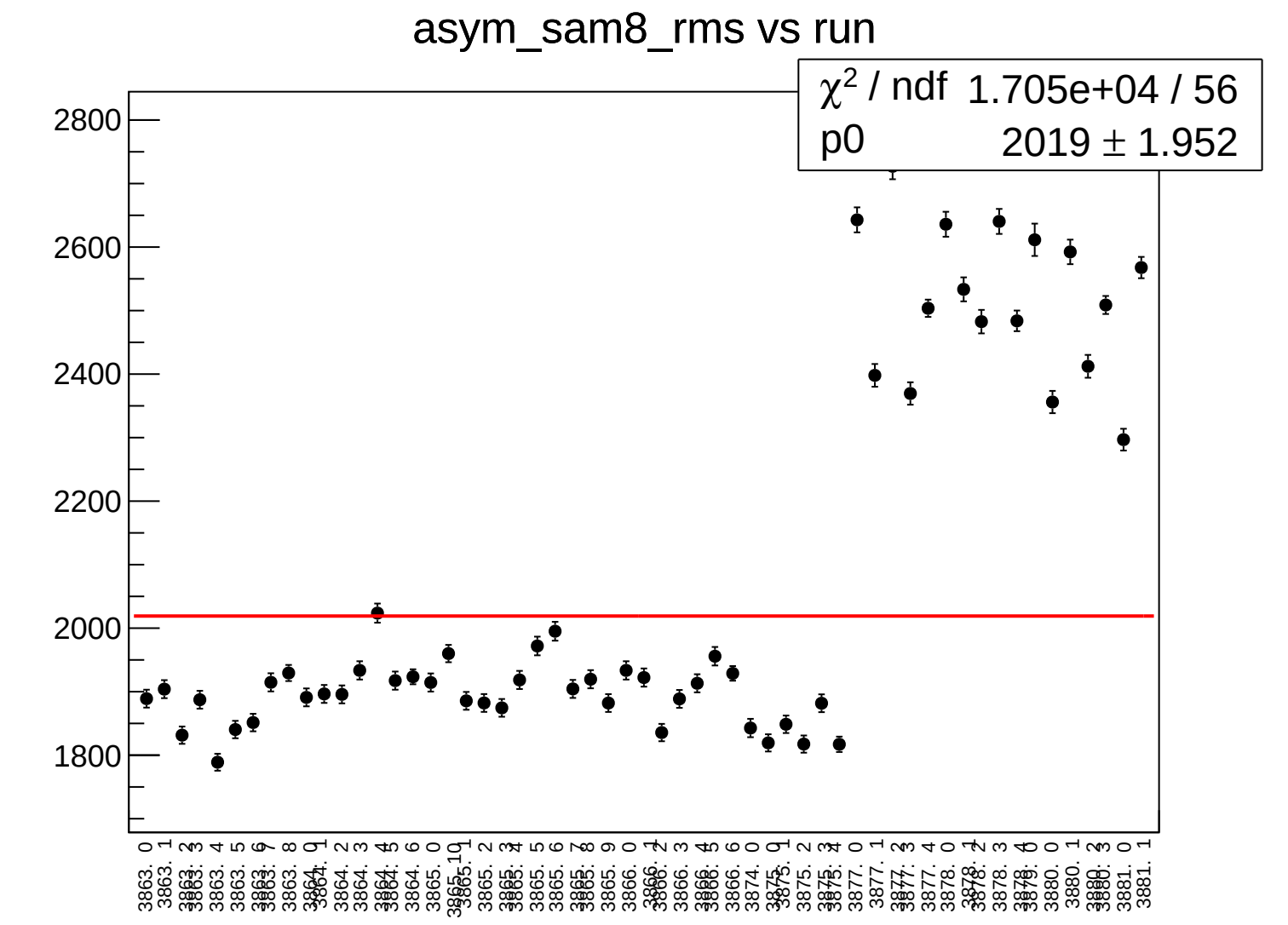

asym_sam7_mean vs run
χ² / ndf 56.13 / 56
p0 692.9 ± 2729
pull
Entries 57
Mean 328.6
Std Dev 302.9

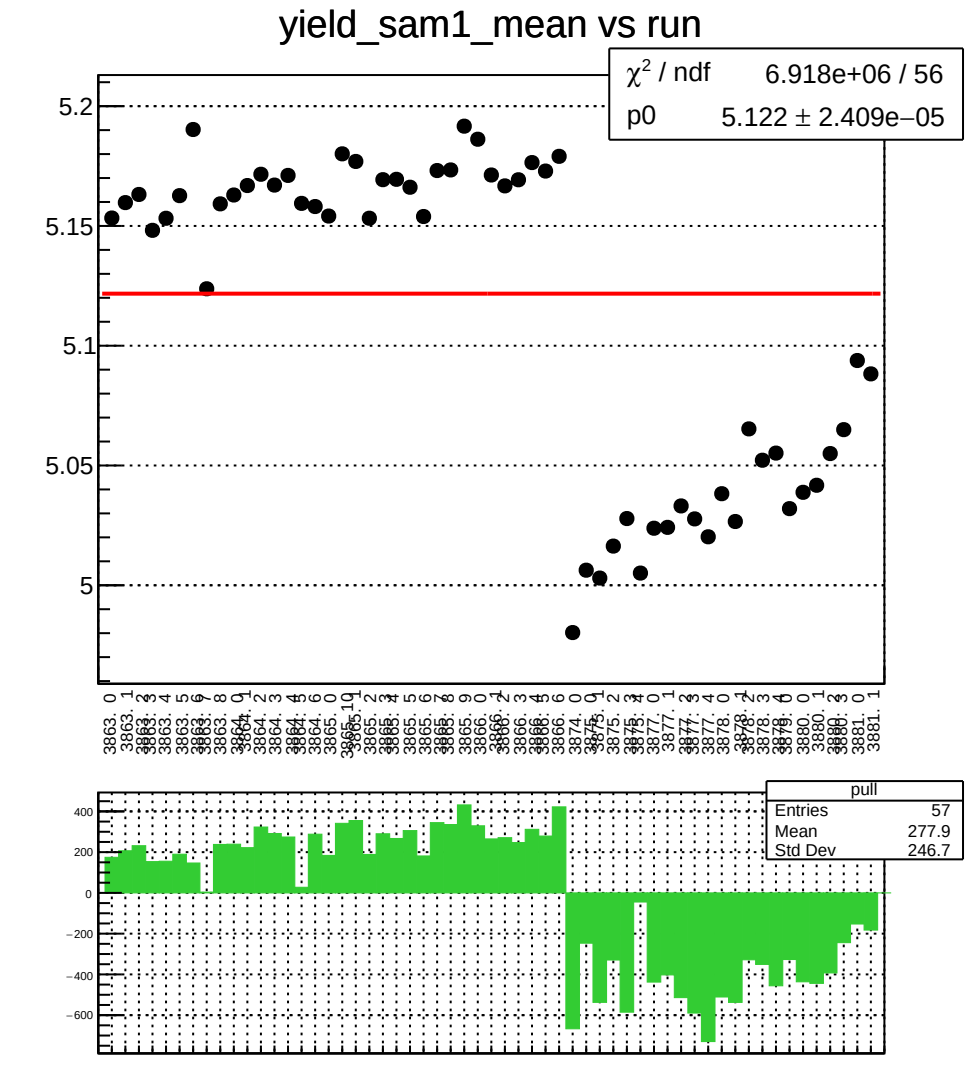

pull1D
Entries 57
Mean 0.0172
Std Dev 0.9922

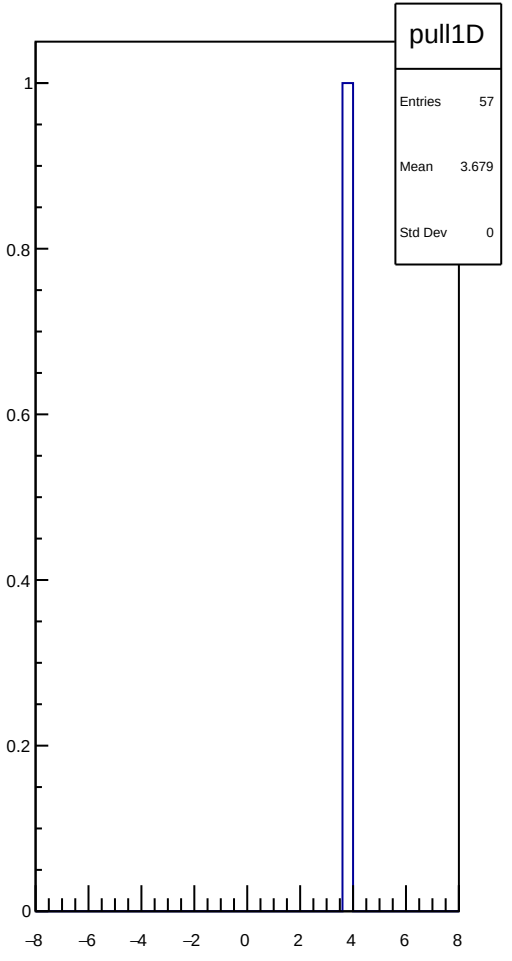

asym_sam7_rms vs run
χ² / ndf 1.688e+04 / 56
p0 1997 ± 1.93
2600
2400
2200
2000
1800
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

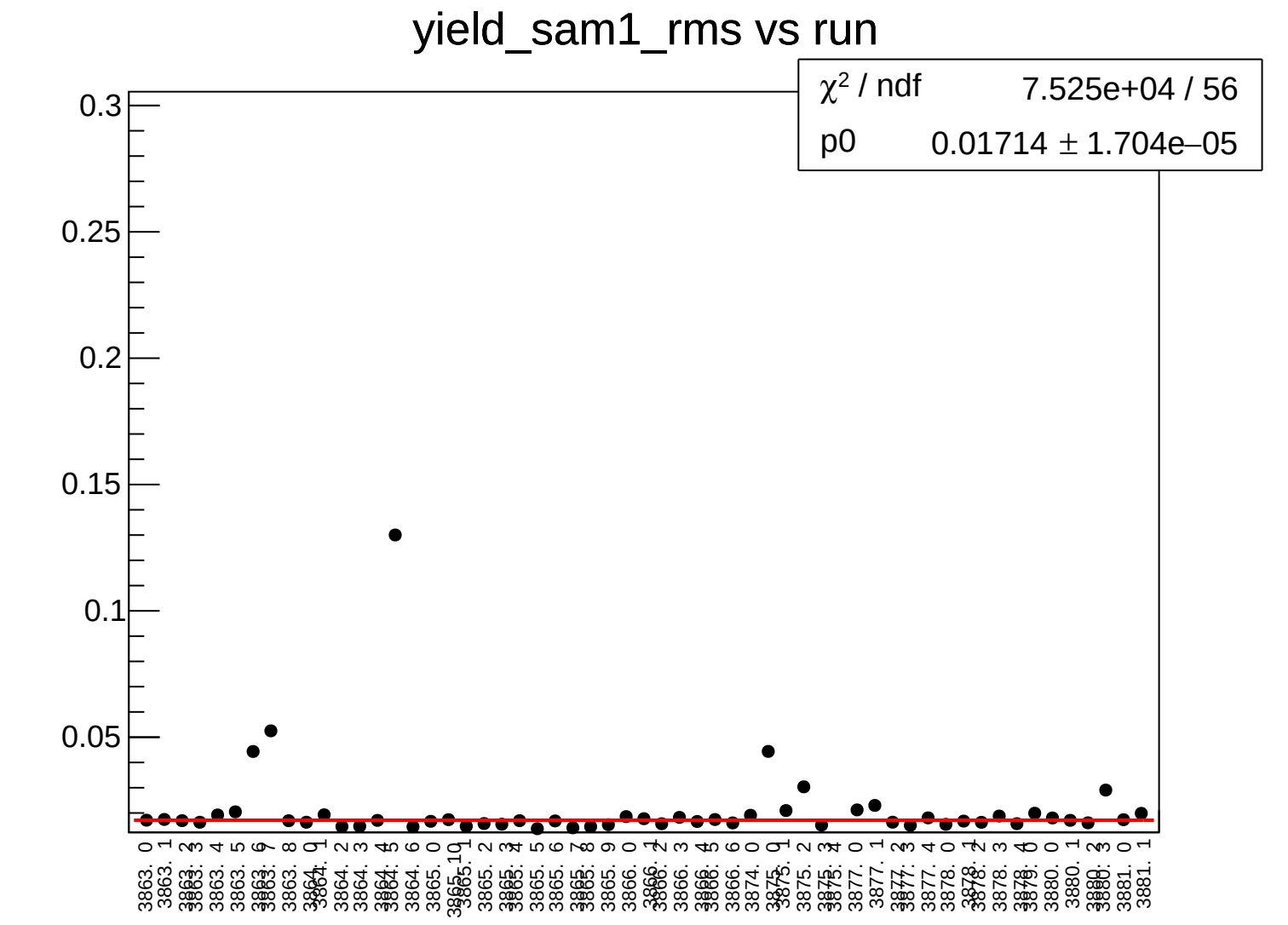

asym_sam8_mean vs run
χ² / ndf 52.86 / 56
p0 −3062 ± 2760
pull
Entries 57
Mean 560.2
Std Dev 539

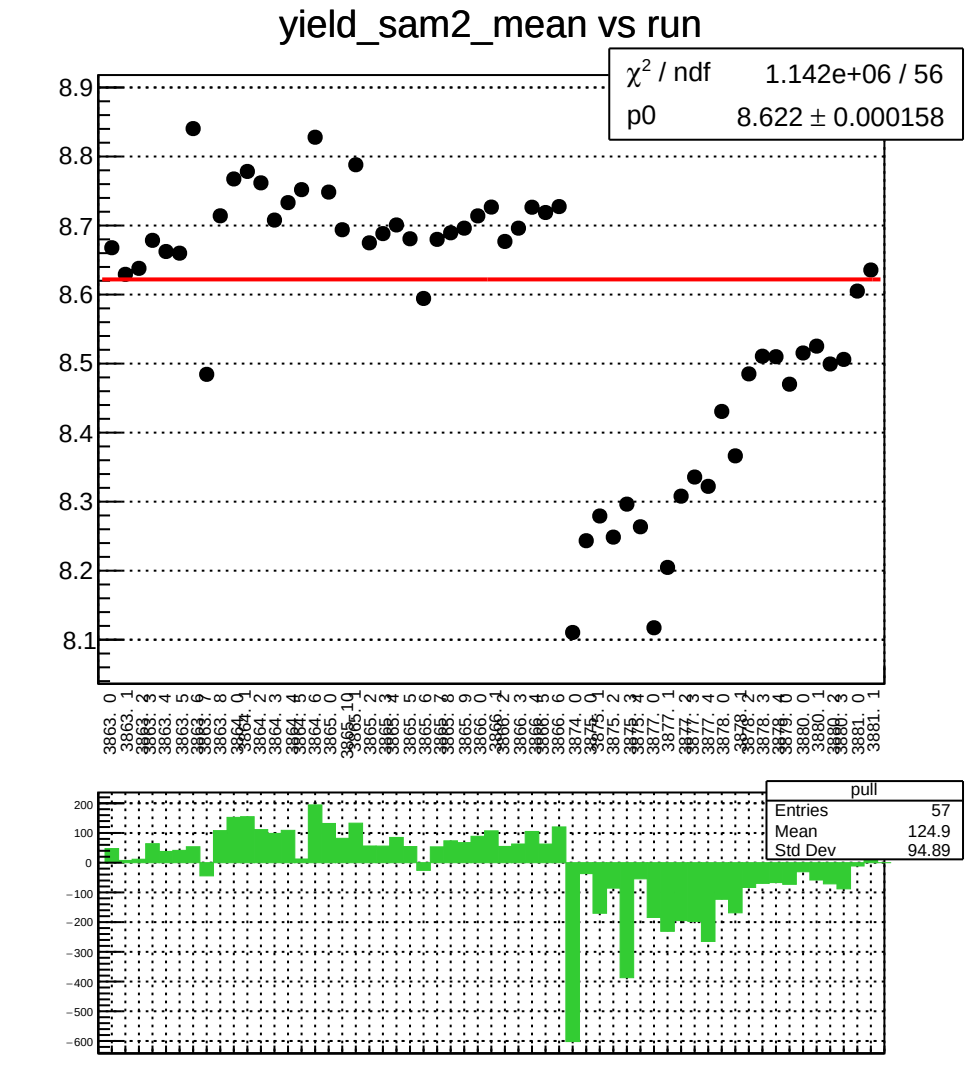

pull1D
Entries 57
Mean 0.007132
Std Dev 0.963

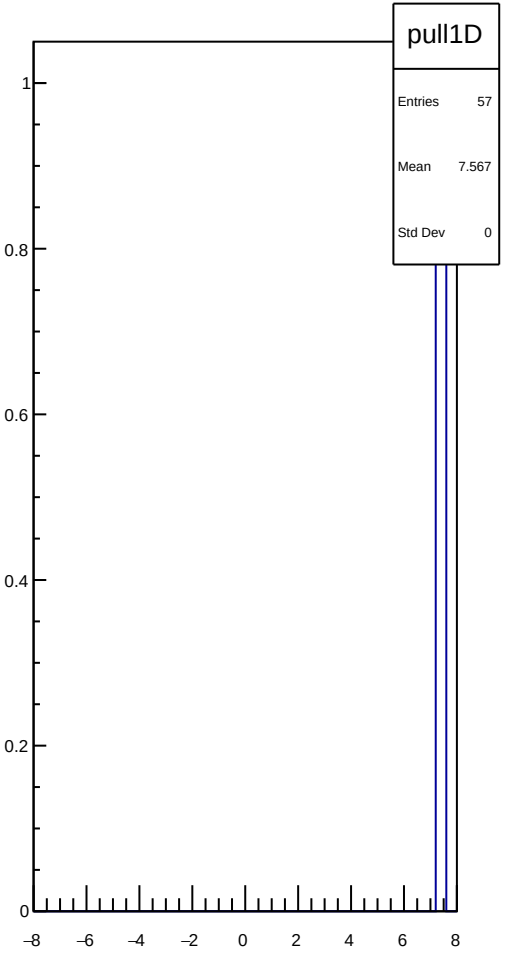

asym_sam8_rms vs run
χ² / ndf 1.705e+04 / 56
p0 2019 ± 1.952
2800
2600
2400
2200
2000
1800
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

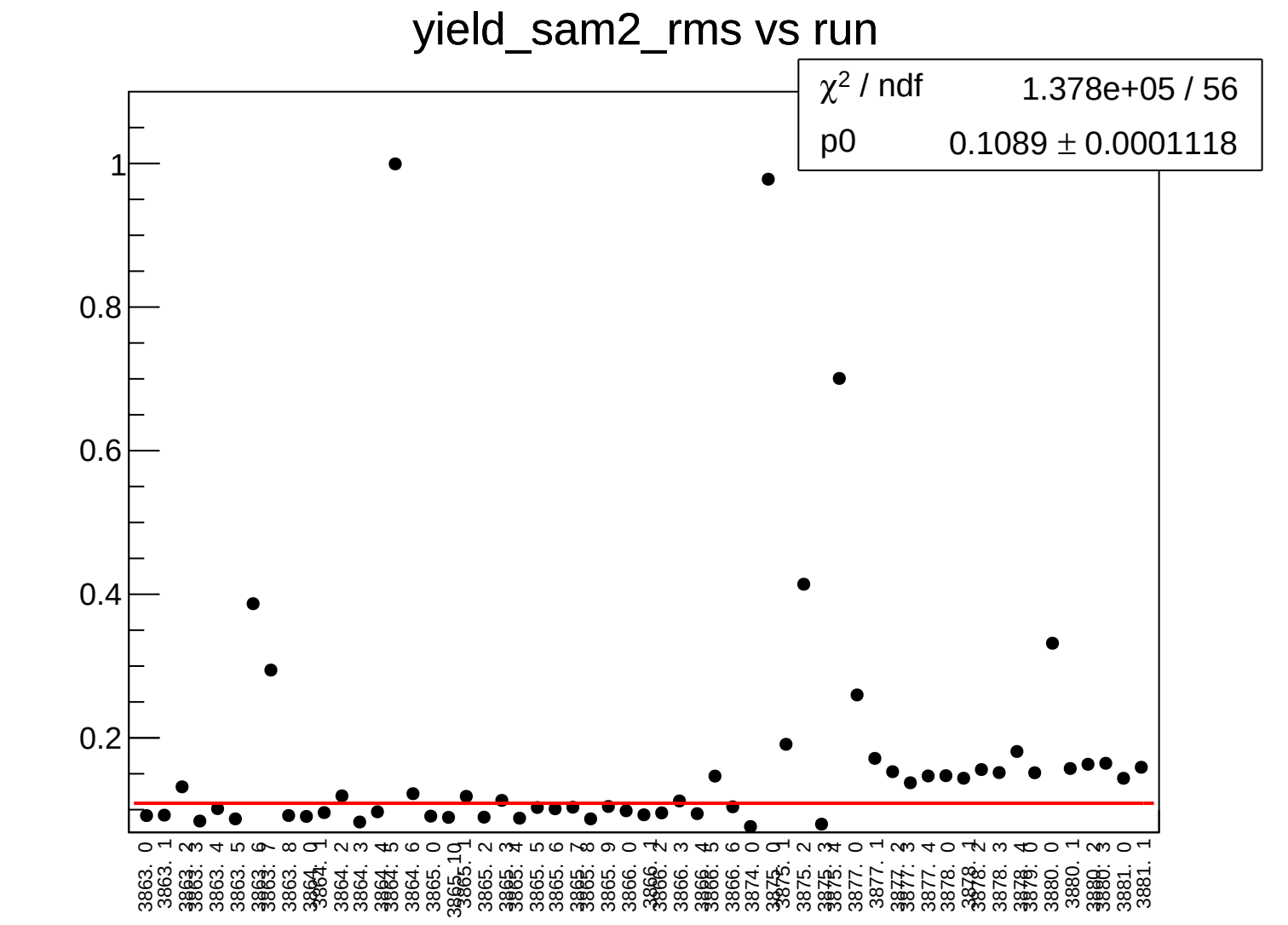

yield_sam1_mean vs run
χ² / ndf 6.918e+06 / 56
p0 5.122 ± 2.409e−05
5.2
5.15
5.1
5.05
5
pull
Entries 57
Mean 277.9
Std Dev 246.7
400
200
0
−200
−400
−600

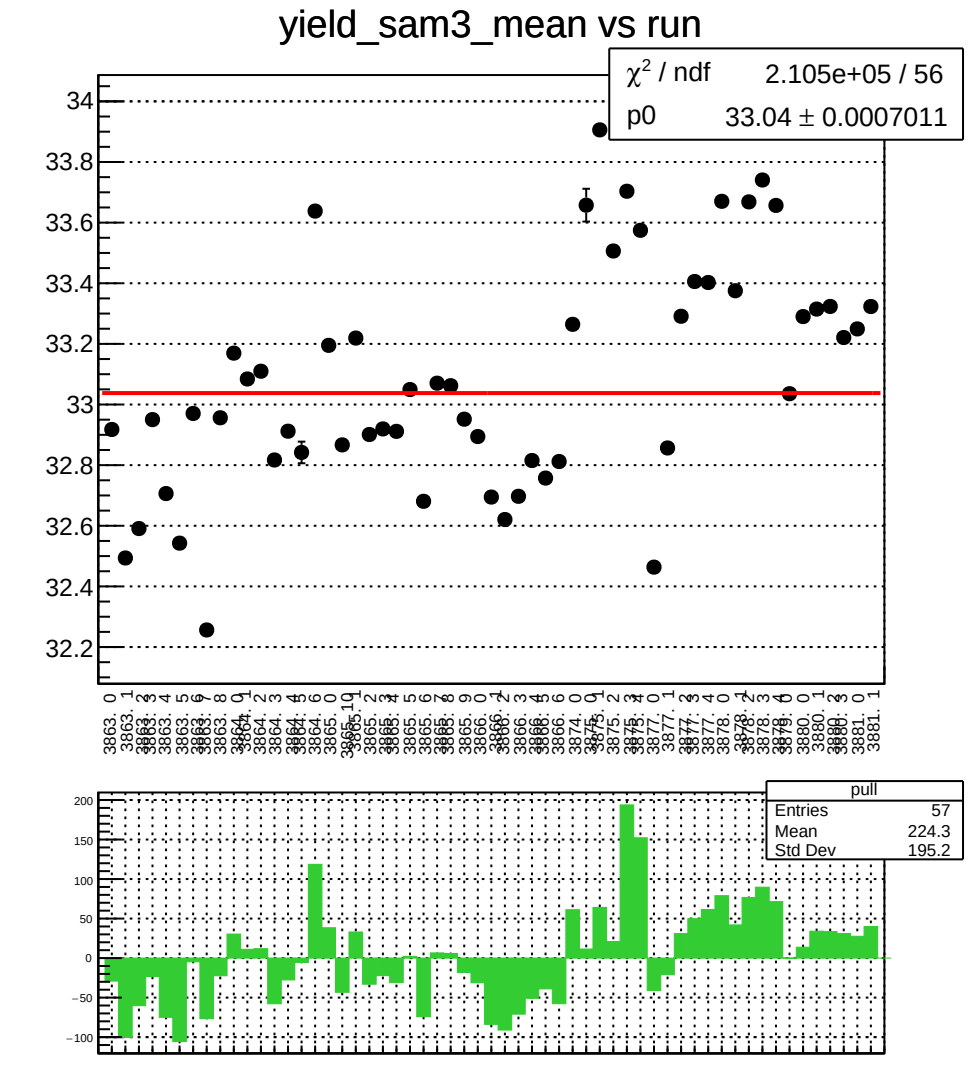

pull1D
Entries 57
Mean 3.679
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

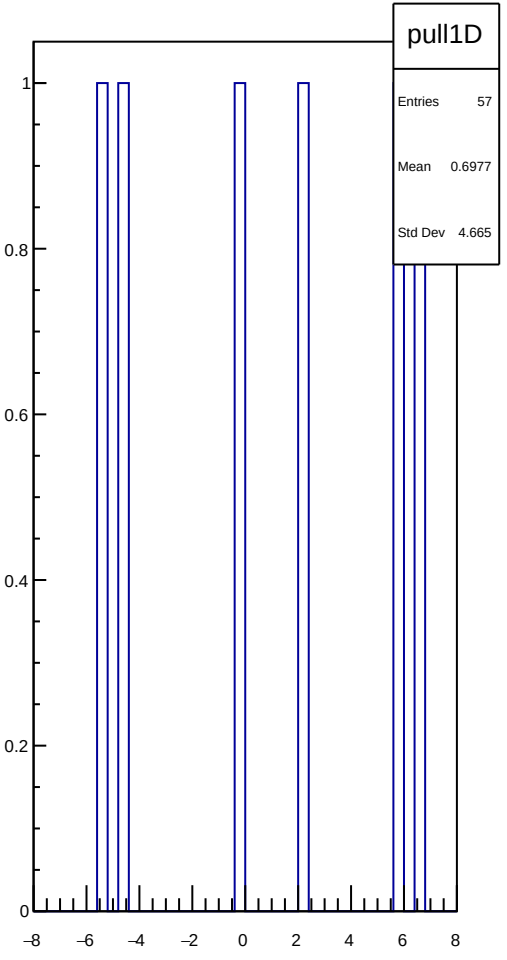

yield_sam1_rms vs run
χ² / ndf 7.525e+04 / 56
p0 0.01714 ± 1.704e−05
0.3
0.25
0.2
0.15
0.1
0.05
3863. 0
3863. 1
3863. 4
3863. 5
3863. 8
3863. 9
3864. 1
3864. 2
3864. 3
3864. 6
3865. 0
3865. 2
3865. 5
3865. 6
3865. 9
3866. 0
3866. 3
3874. 0
3875. 2
3877. 0
3877. 1
3877. 4
3878. 0
3878. 3
3880. 0
3880. 1
3881. 0
3881. 1

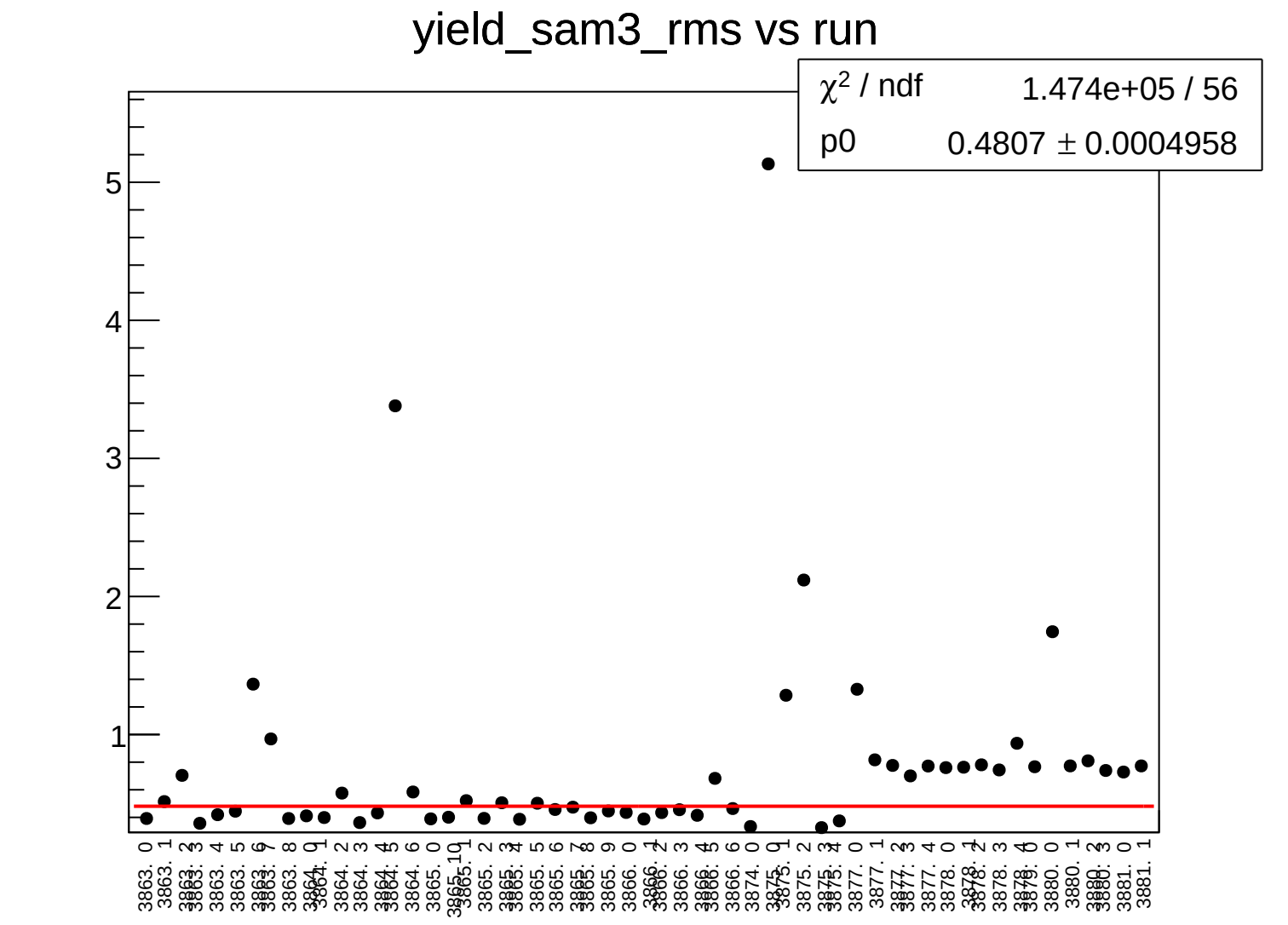

yield_sam2_mean vs run
χ² / ndf 1.142e+06 / 56
p0 8.622 ± 0.000158
pull
Entries 57
Mean 124.9
Std Dev 94.89

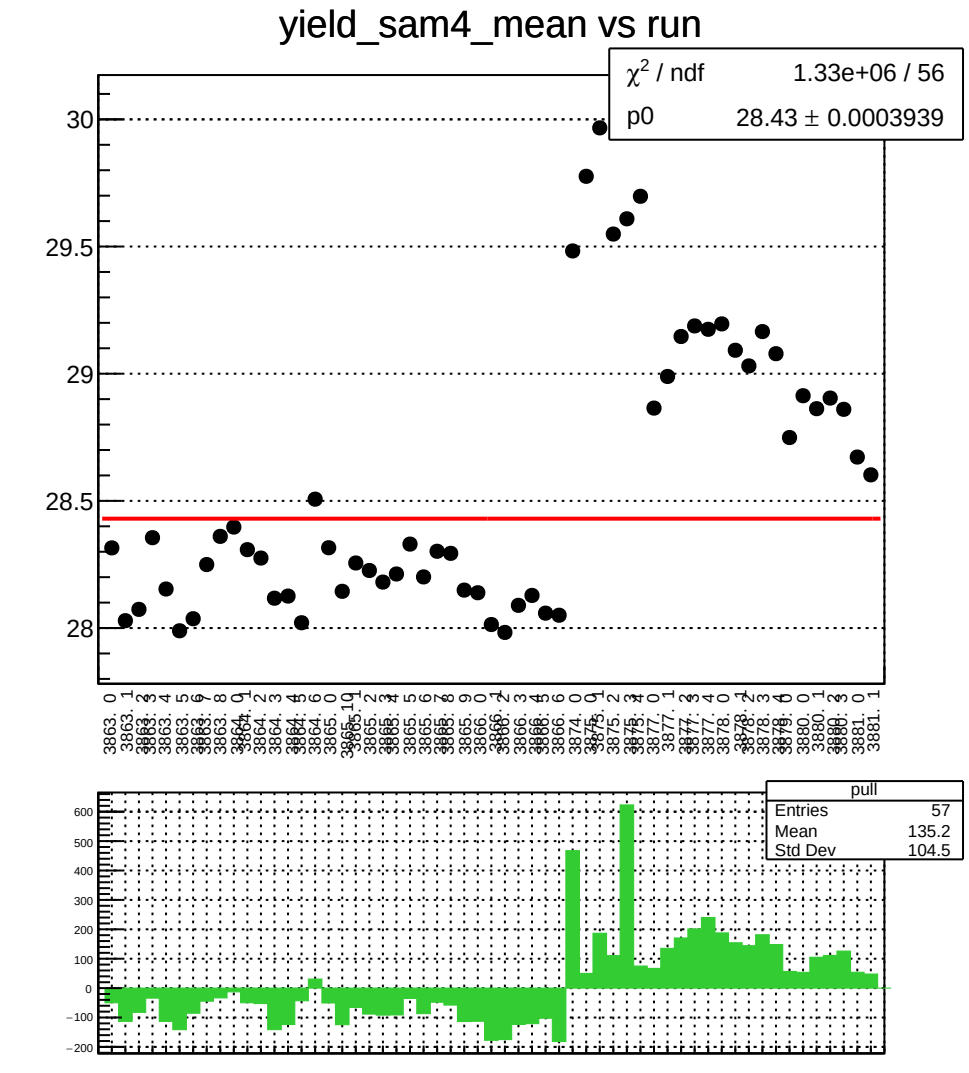

pull1D
Entries 57
Mean 7.567
Std Dev 0

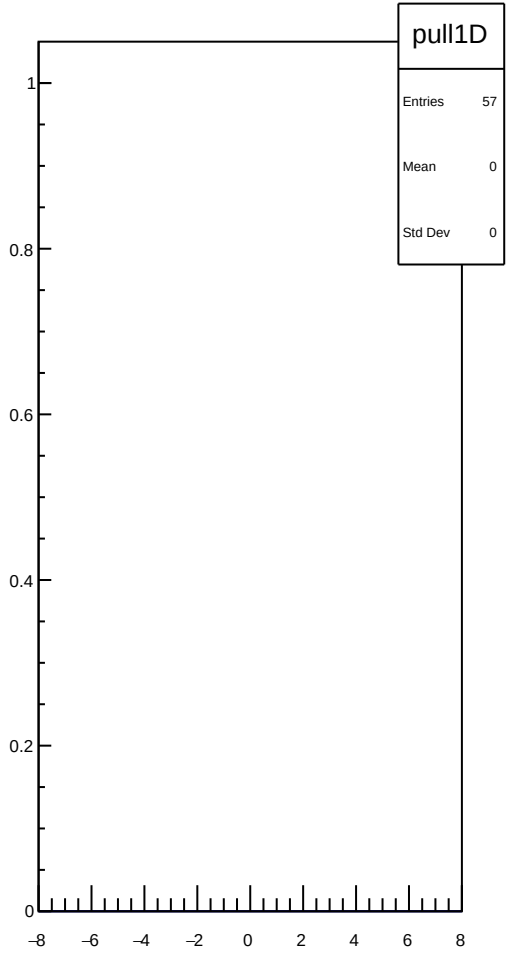

yield_sam2_rms vs run
χ² / ndf 1.378e+05 / 56
p0 0.1089 ± 0.0001118
1
0.8
0.6
0.4
0.2

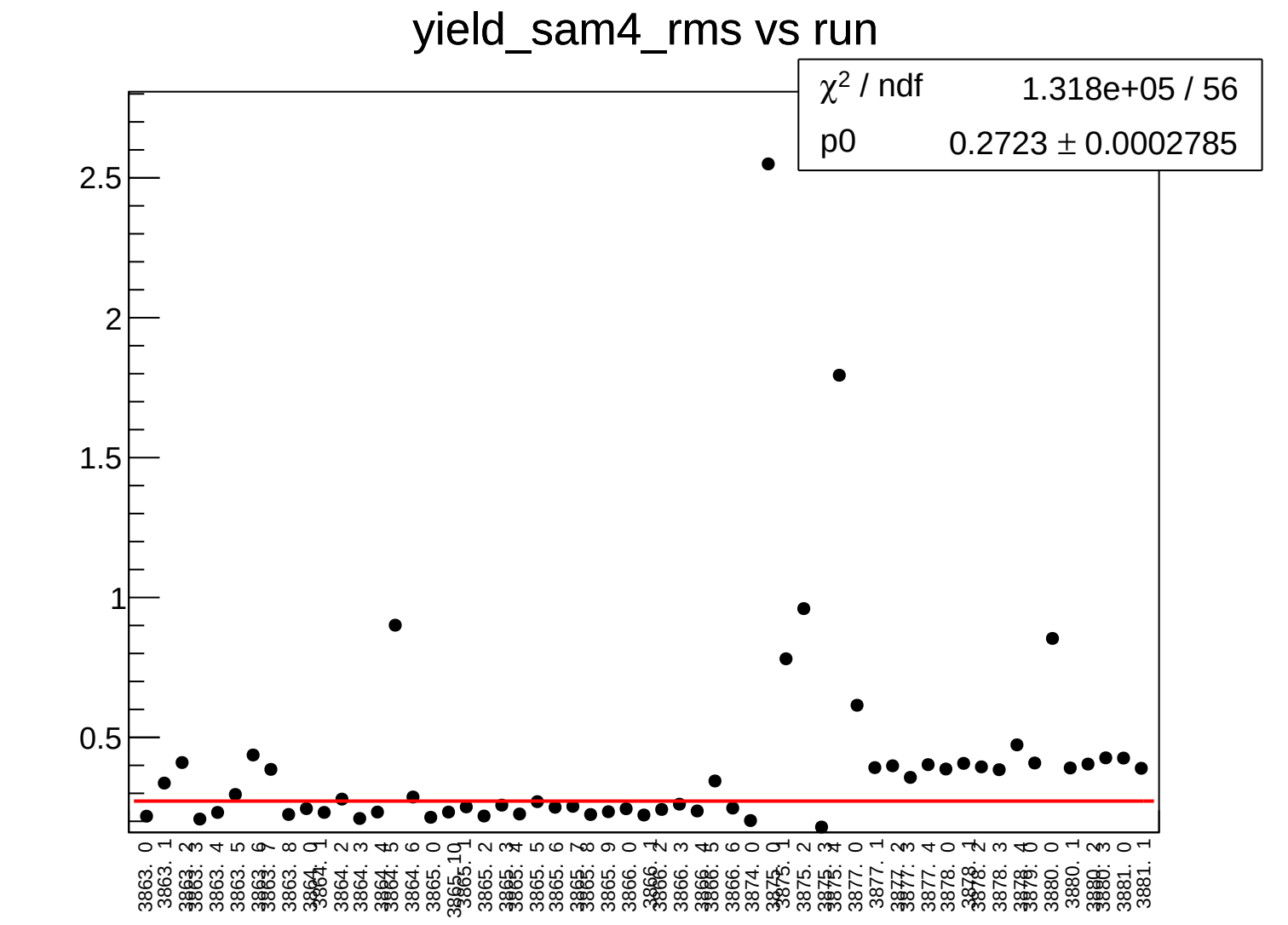

yield_sam3_mean vs run
χ² / ndf 2.105e+05 / 56
p0 33.04 ± 0.0007011
pull
Entries 57
Mean 224.3
Std Dev 195.2

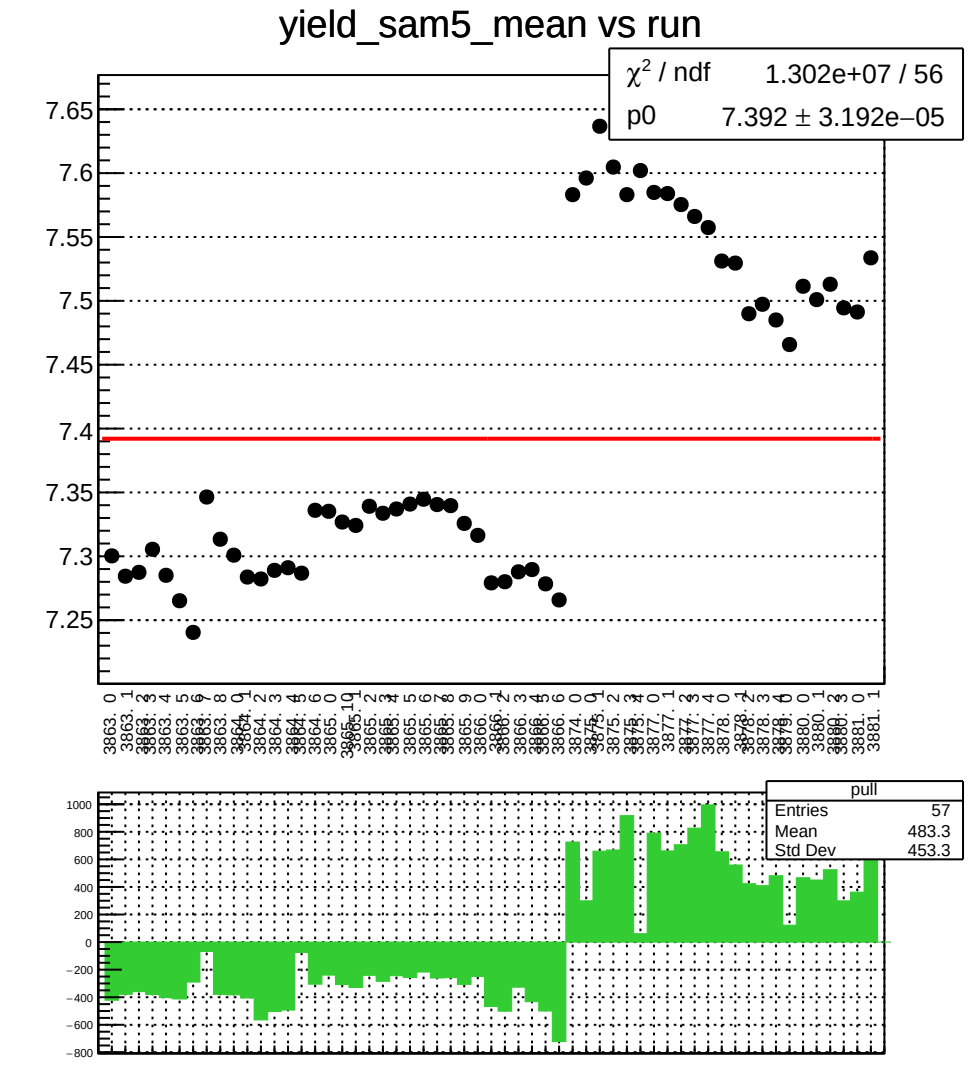

pull1D
Entries 57
Mean 0.6977
Std Dev 4.665

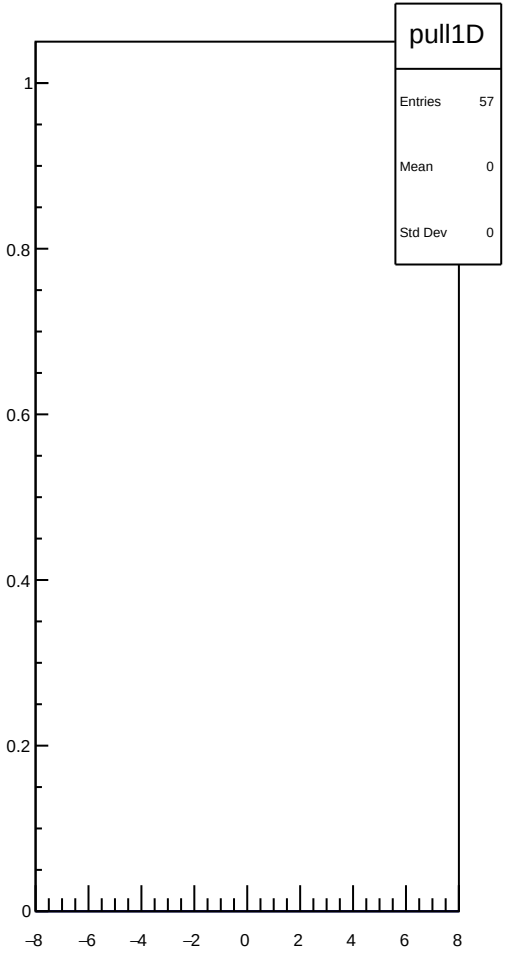

yield_sam3_rms vs run
χ² / ndf 1.474e+05 / 56
p0 0.4807 ± 0.0004958
5
4
3
2
1

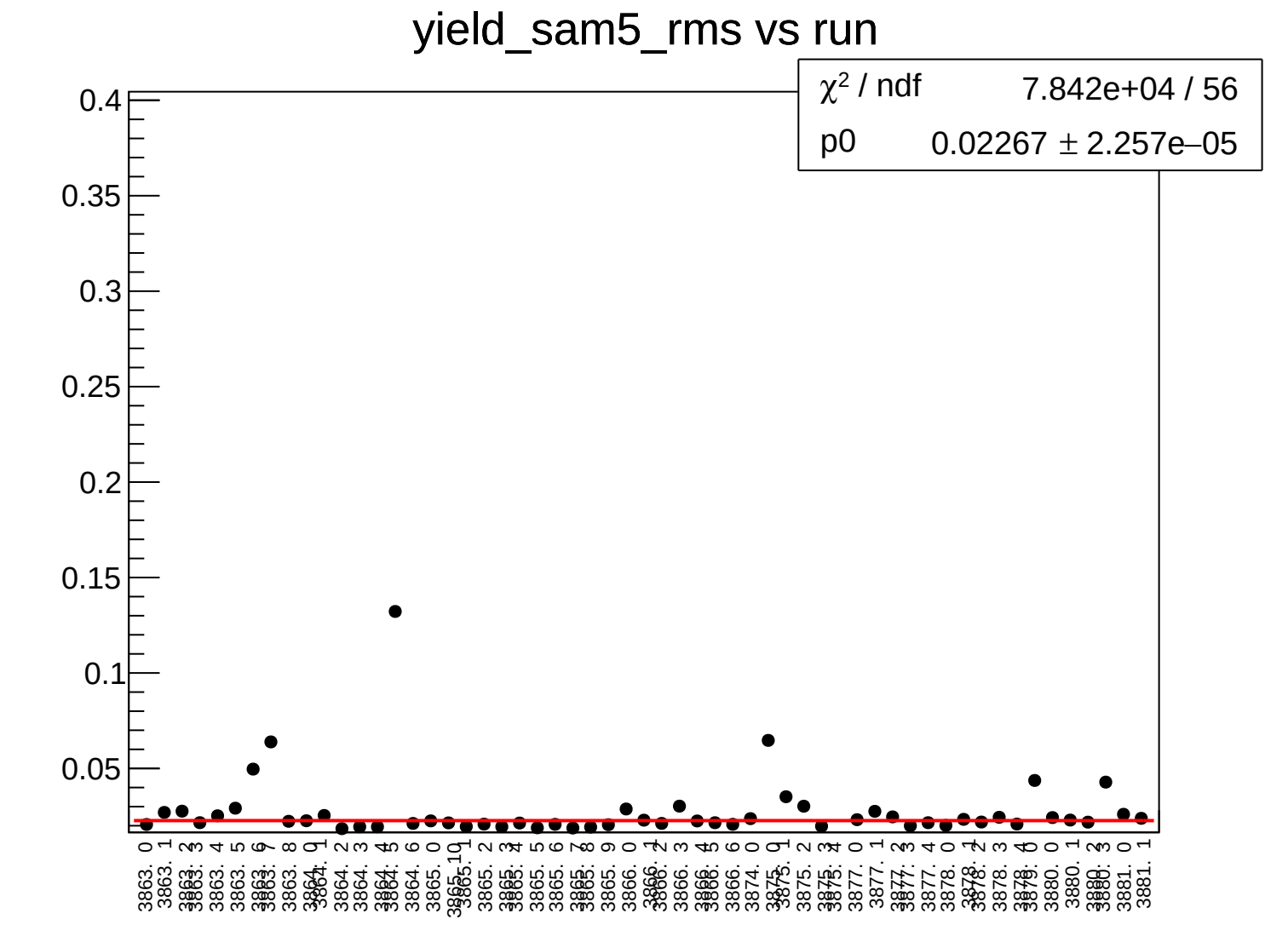

yield_sam4_mean vs run
χ² / ndf 1.33e+06 / 56
p0 28.43 ± 0.0003939
30
29.5
29
28.5
28
pull
Entries 57
Mean 135.2
Std Dev 104.5
600
500
400
300
200
100
0
−100
−200

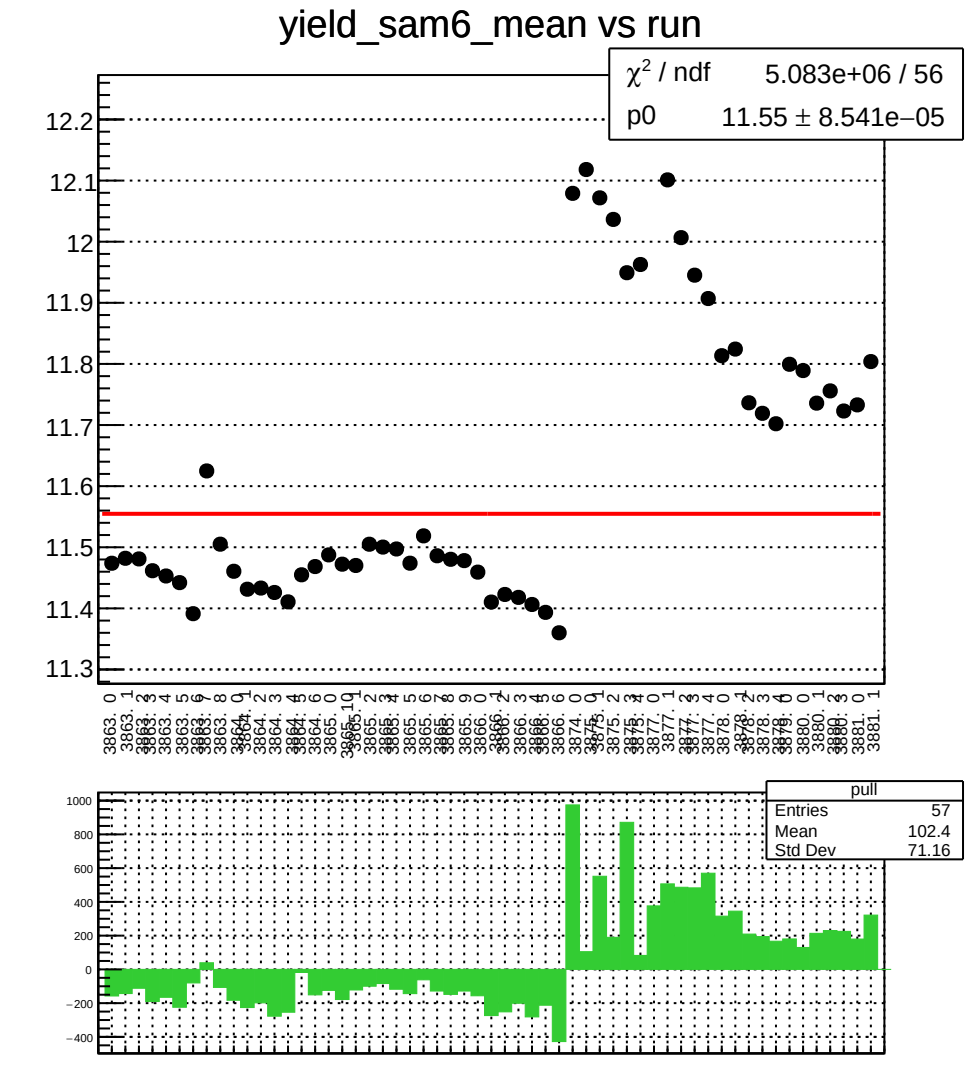

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

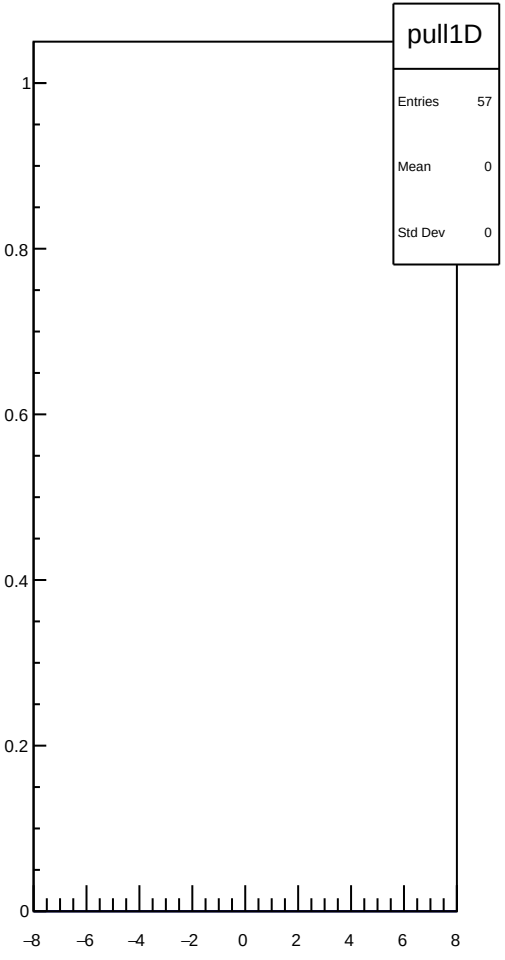

yield_sam4_rms vs run
χ² / ndf 1.318e+05 / 56
p0 0.2723 ± 0.0002785
2.5
2
1.5
1
0.5

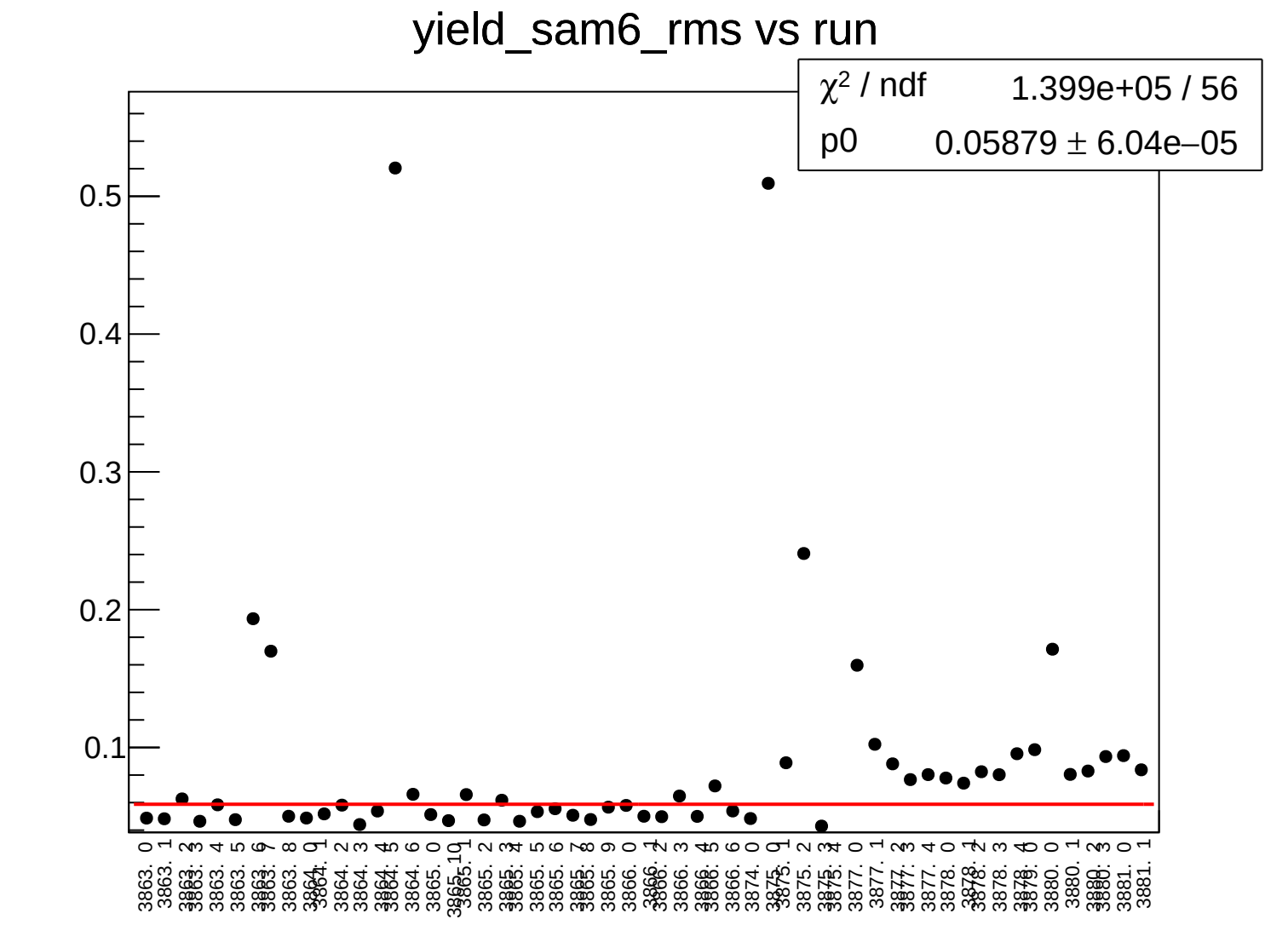

yield_sam5_mean vs run
χ² / ndf 1.302e+07 / 56
p0 7.392 ± 3.192e−05
7.65
7.6
7.55
7.5
7.45
7.4
7.35
7.3
7.25
pull
Entries 57
Mean 483.3
Std Dev 453.3
1000
800
600
400
200
0
−200
−400
−600
−800

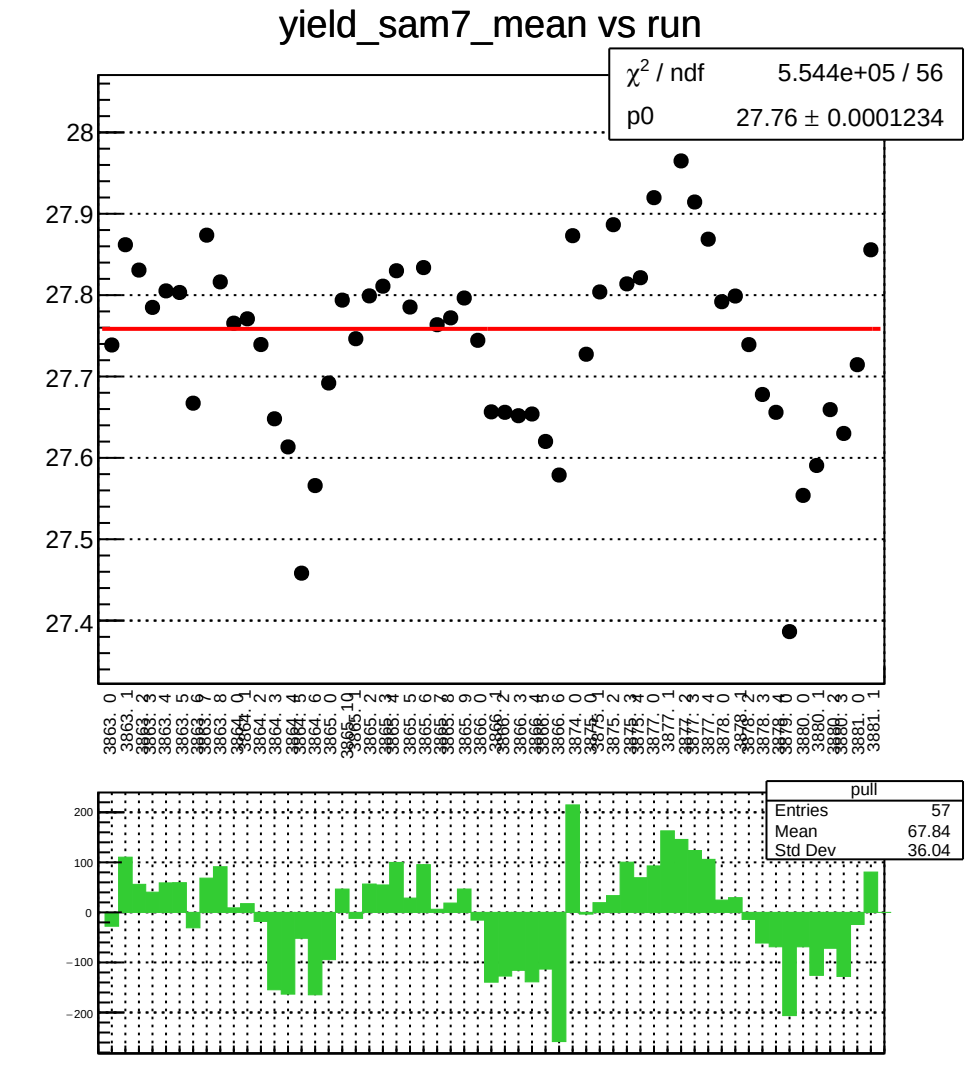

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

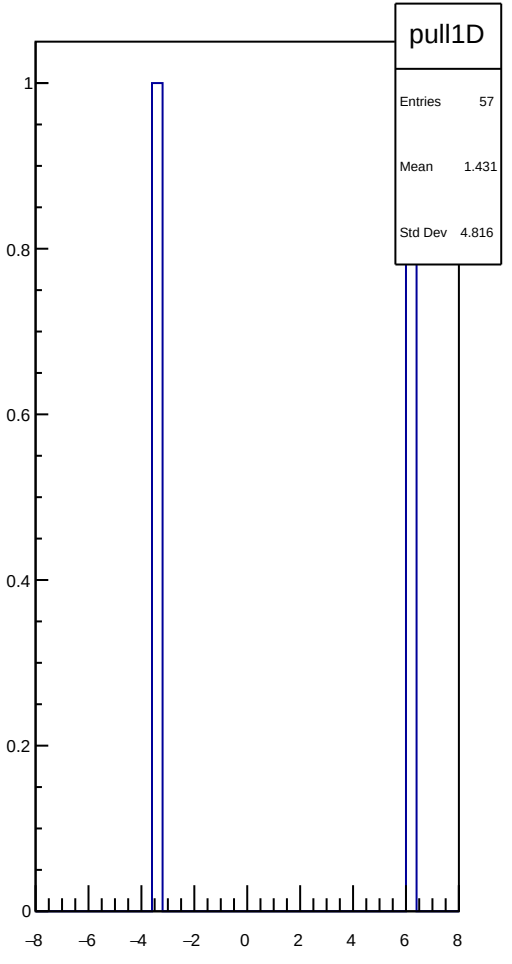

yield_sam5_rms vs run
χ² / ndf 7.842e+04 / 56
p0 0.02267 ± 2.257e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

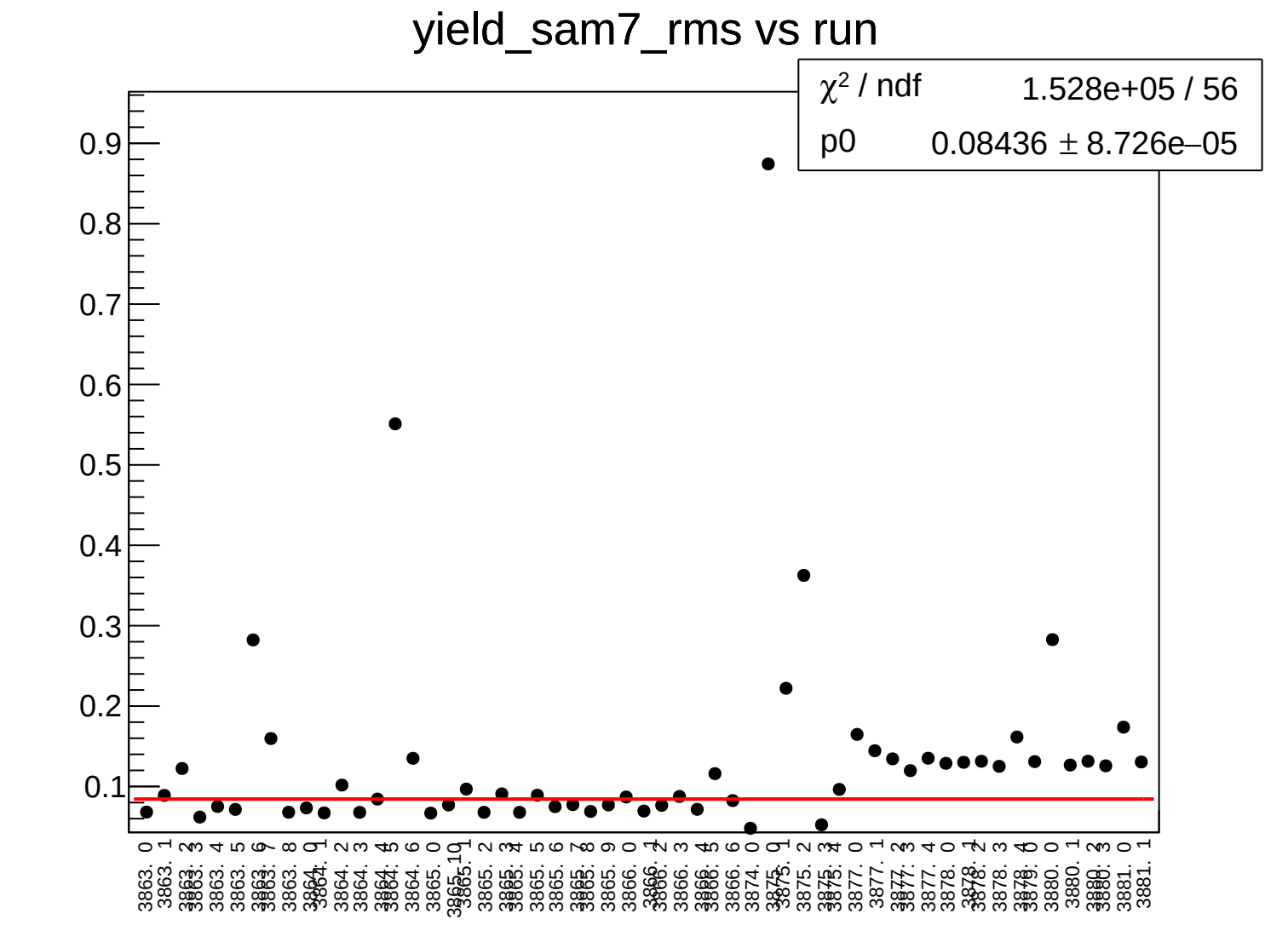

yield_sam6_mean vs run
χ² / ndf 5.083e+06 / 56
p0 11.55 ± 8.541e−05
pull
Entries 57
Mean 102.4
Std Dev 71.16

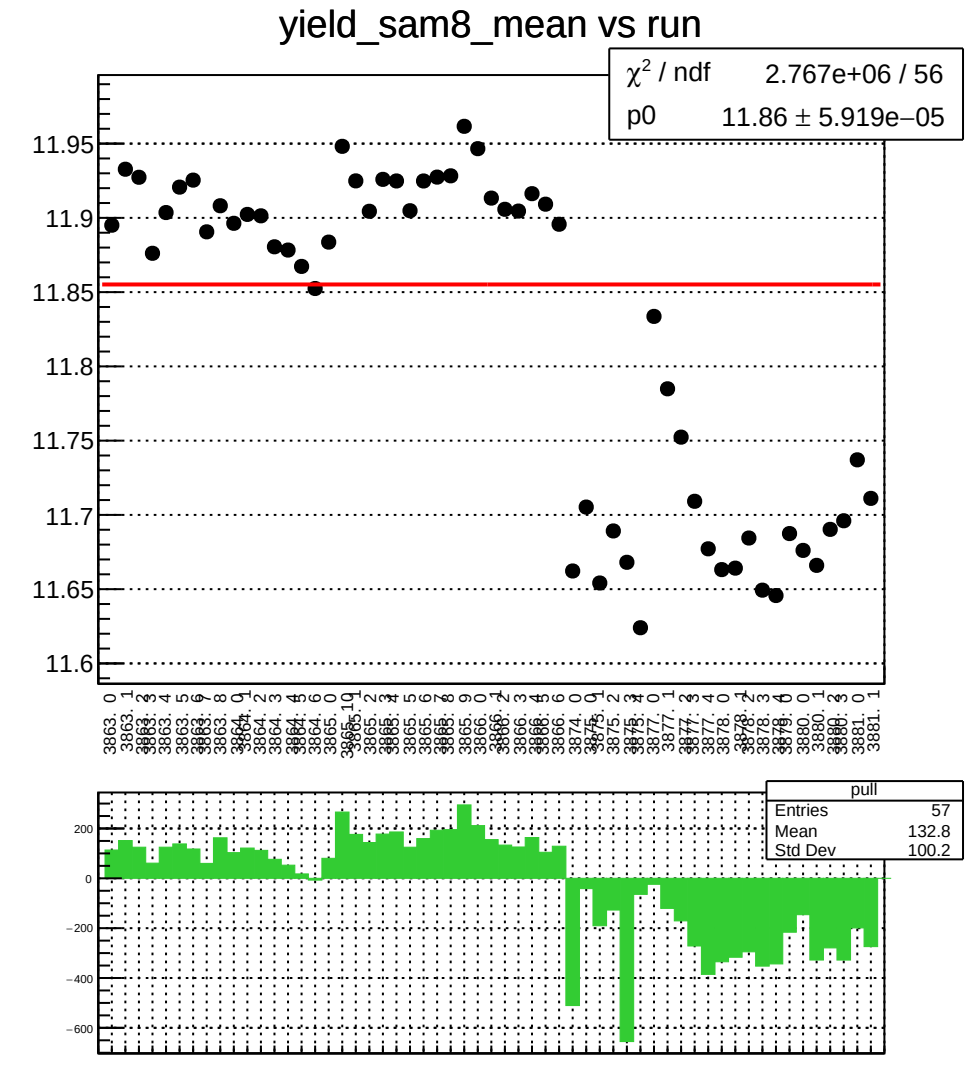

pull1D
Entries 57
Mean 0
Std Dev 0

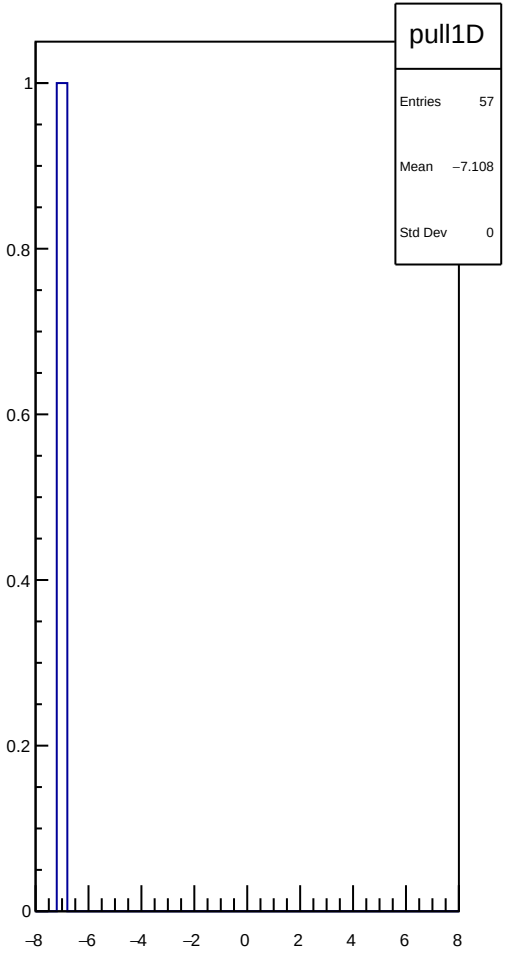

yield_sam6_rms vs run
χ² / ndf 1.399e+05 / 56
p0 0.05879 ± 6.04e−05
0.5
0.4
0.3
0.2
0.1

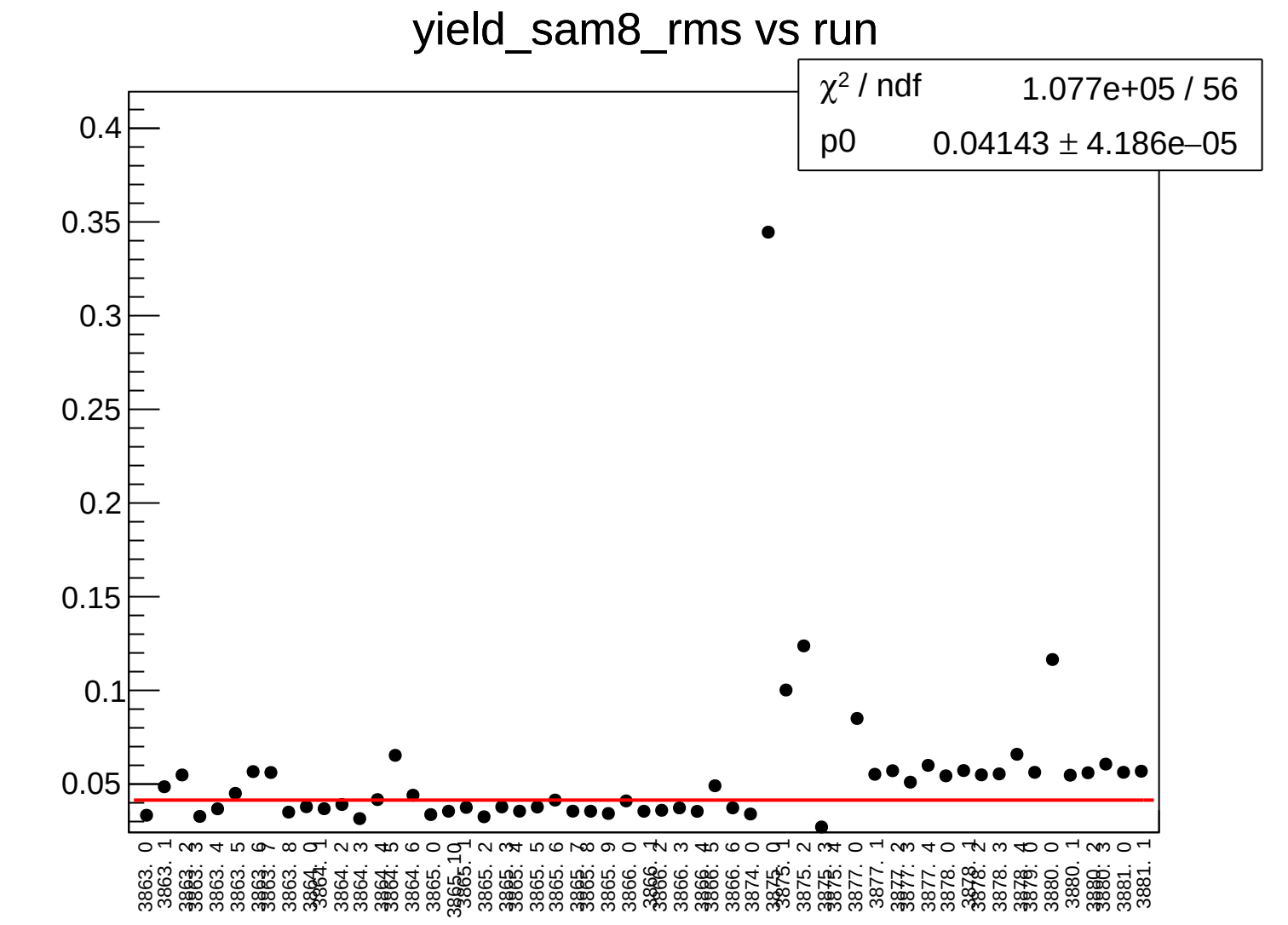

yield_sam7_mean vs run
χ² / ndf 5.544e+05 / 56
p0 27.76 ± 0.0001234
28
27.9
27.8
27.7
27.6
27.5
27.4
pull
Entries 57
Mean 67.84
Std Dev 36.04
200
100
0
−100
−200

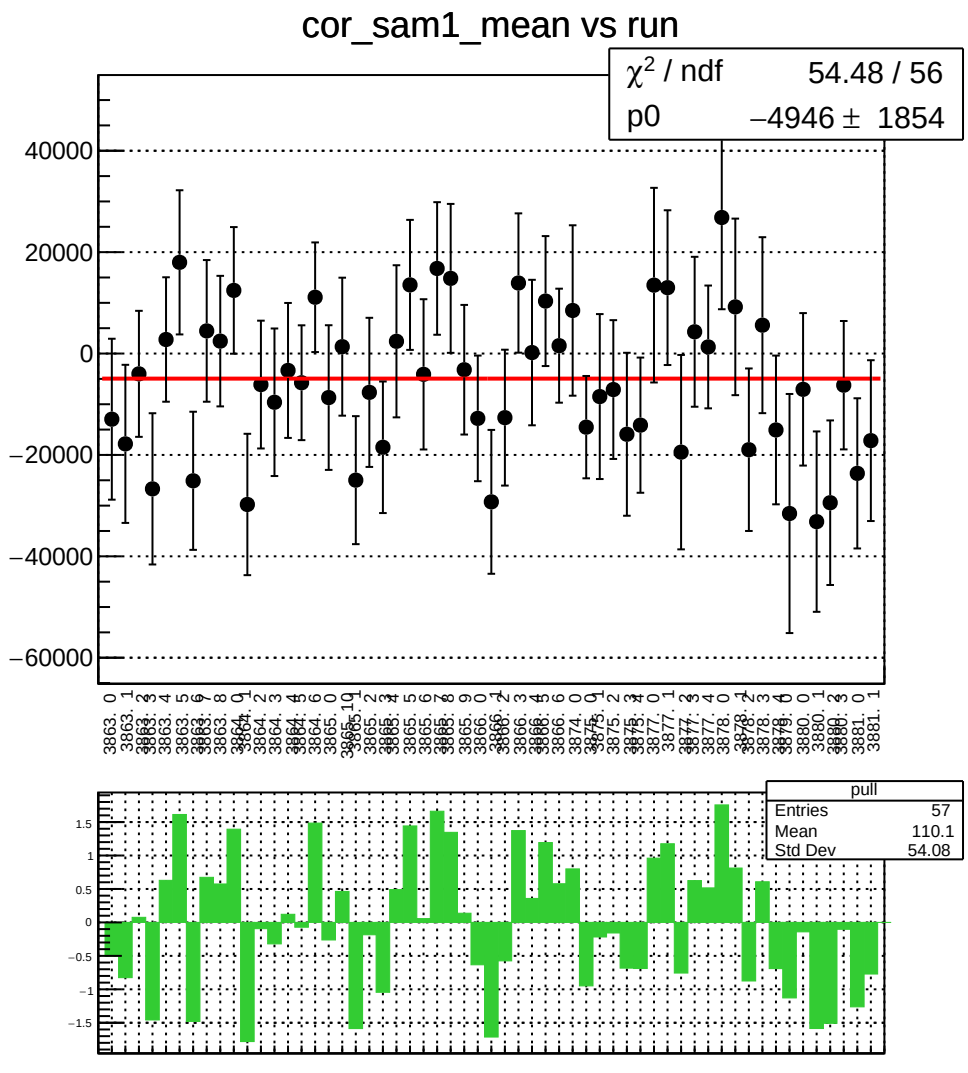

pull1D
Entries 57
Mean 1.431
Std Dev 4.816
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

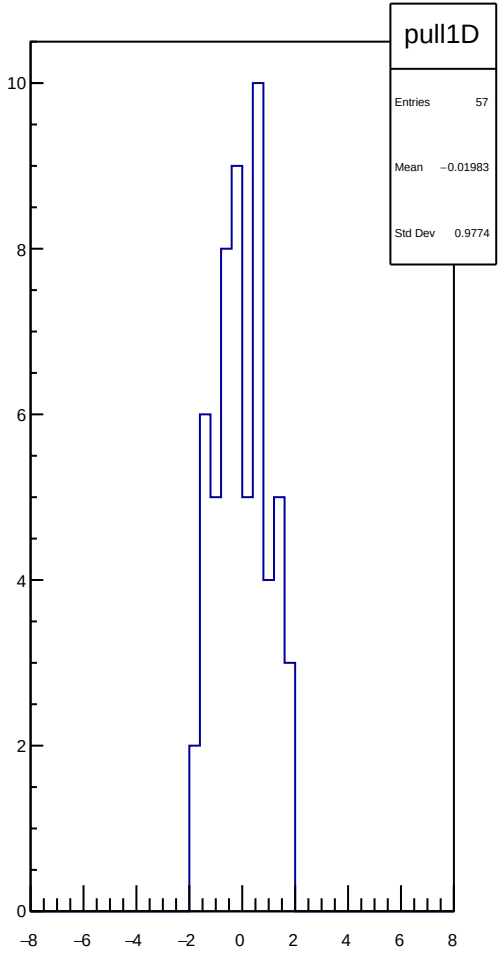

yield_sam7_rms vs run
χ² / ndf 1.528e+05 / 56
p0 0.08436 ± 8.726e–05
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

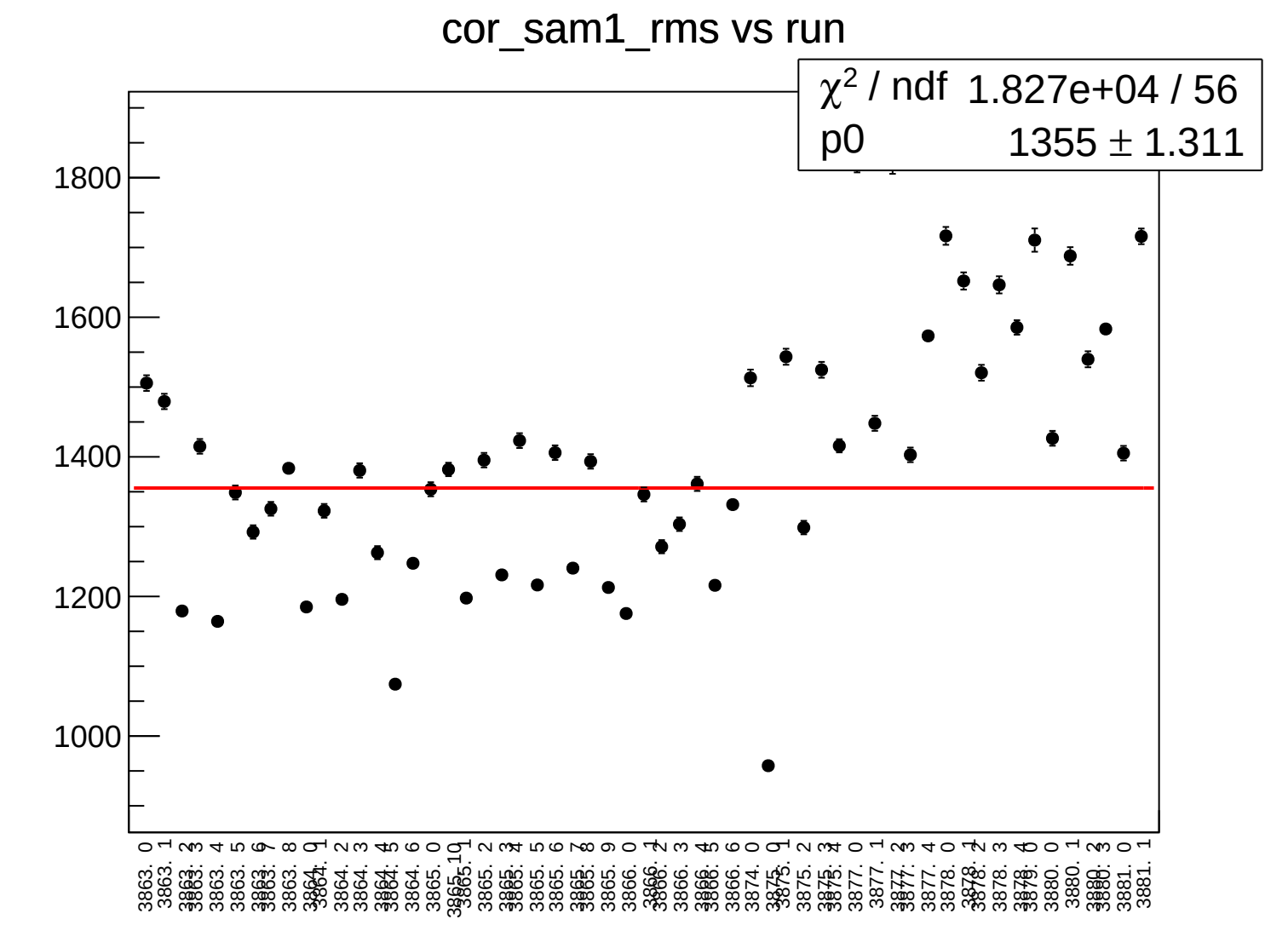

yield_sam8_mean vs run
χ² / ndf 2.767e+06 / 56
p0 11.86 ± 5.919e−05
11.95
11.9
11.85
11.8
11.75
11.7
11.65
11.6
pull
Entries 57
Mean 132.8
Std Dev 100.2
200
0
−200
−400
−600

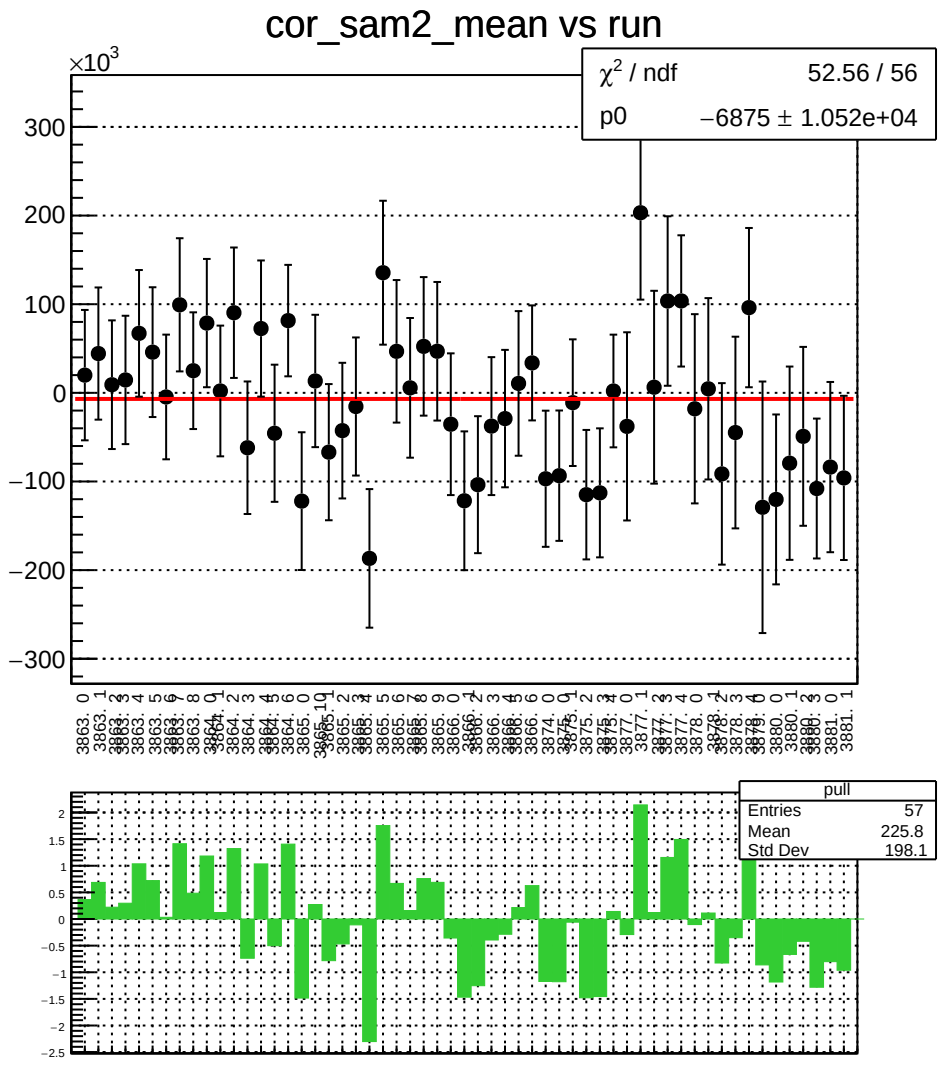

pull1D
Entries 57
Mean −7.108
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

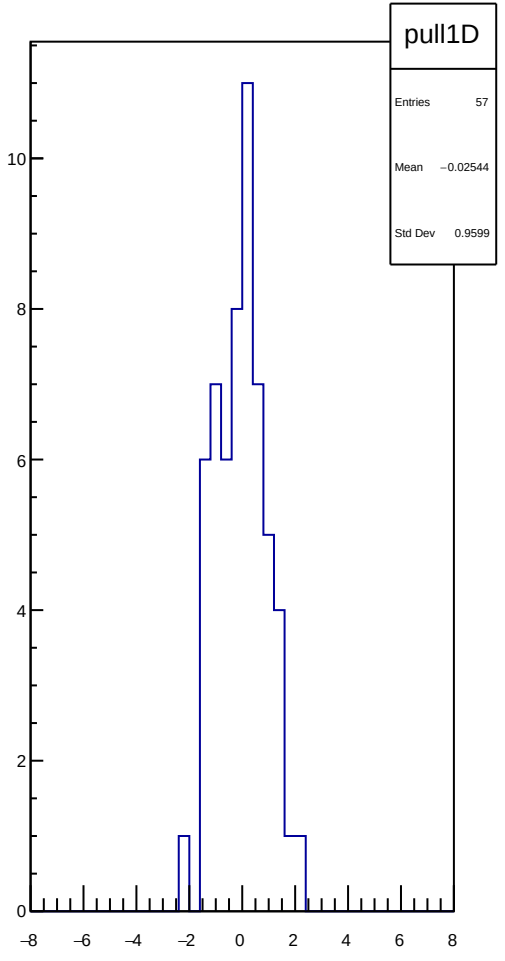

yield_sam8_rms vs run
χ² / ndf 1.077e+05 / 56
p0 0.04143 ± 4.186e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

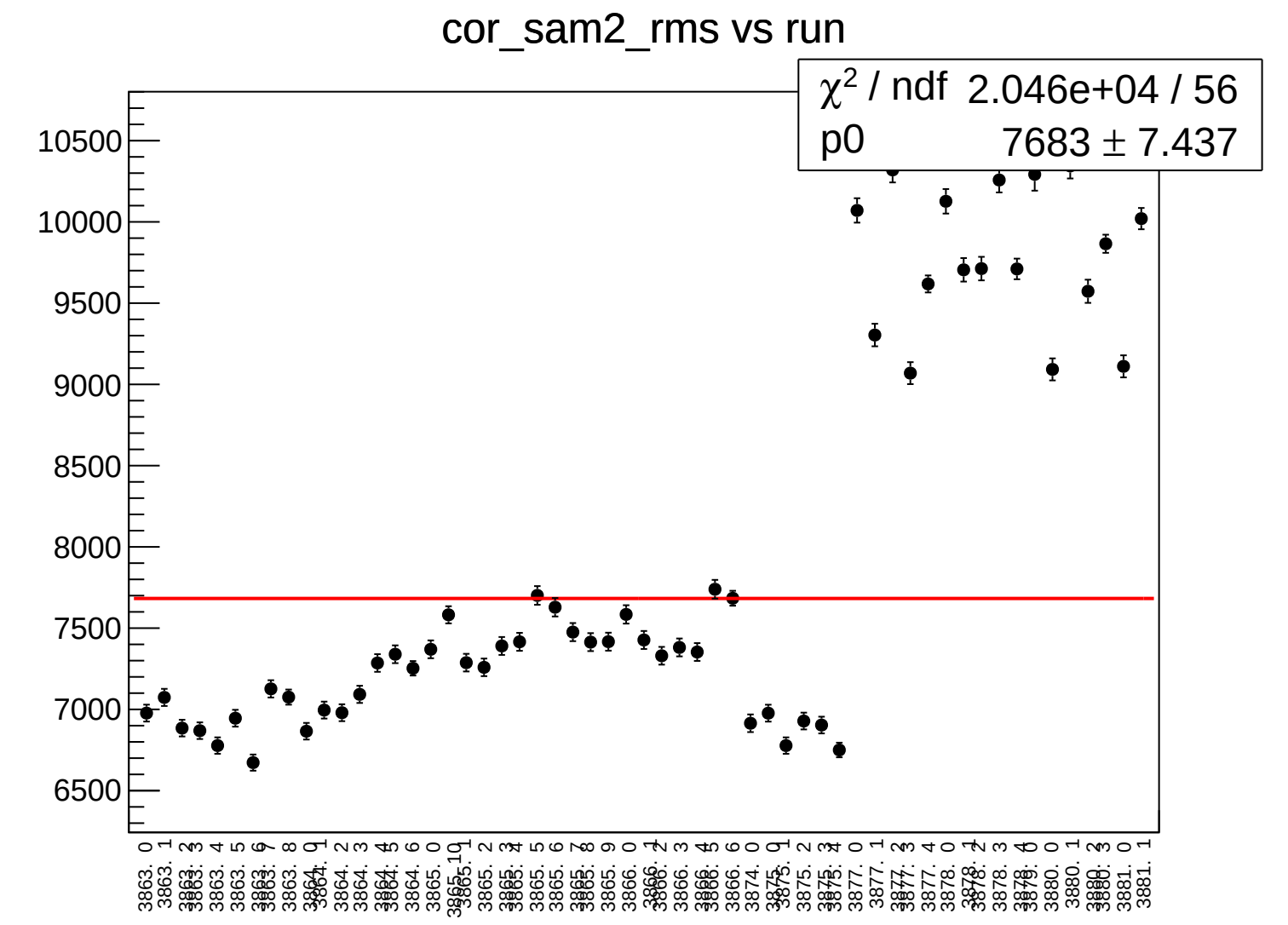

cor_sam1_mean vs run
χ² / ndf 54.48 / 56
p0 −4946 ± 1854
40000
20000
0
−20000
−40000
−60000
pull
Entries 57
Mean 110.1
Std Dev 54.08
1.5
1
0.5
0
−0.5
−1
−1.5

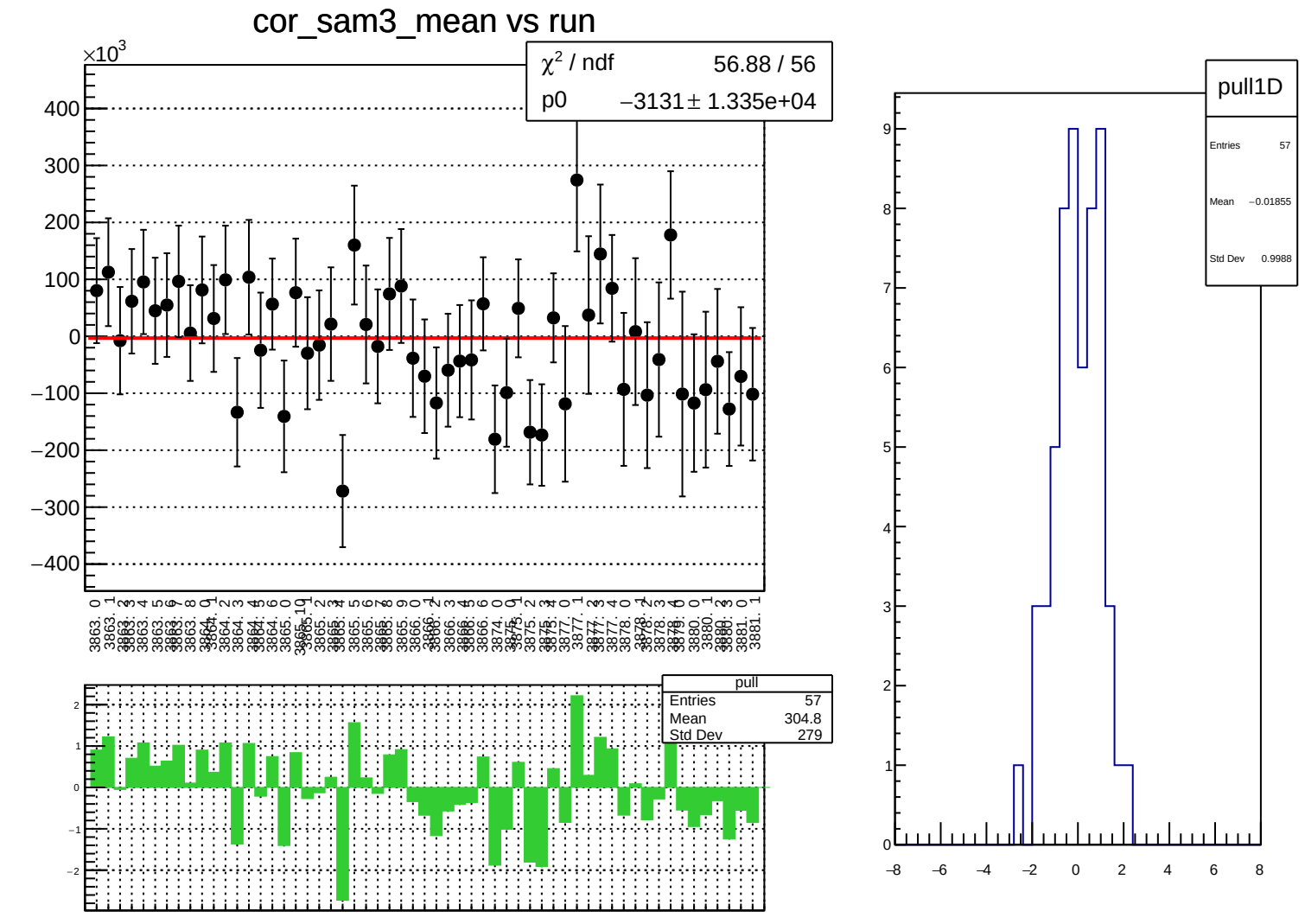

pull1D
Entries 57
Mean −0.01983
Std Dev 0.9774
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

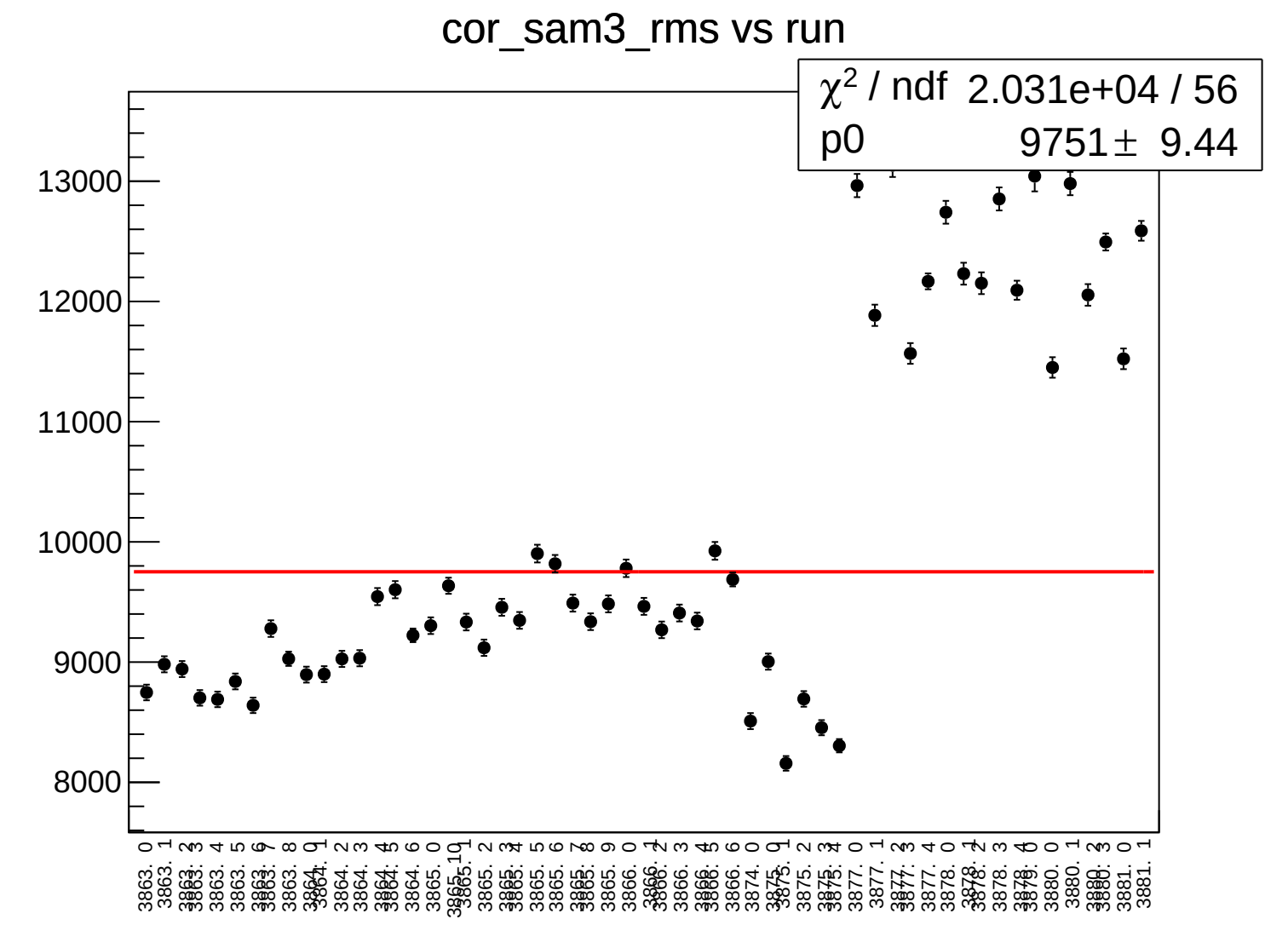

cor_sam1_rms vs run
χ^2 / ndf 1.827e+04 / 56
p0 1355 ± 1.311
1800
1600
1400
1200
1000

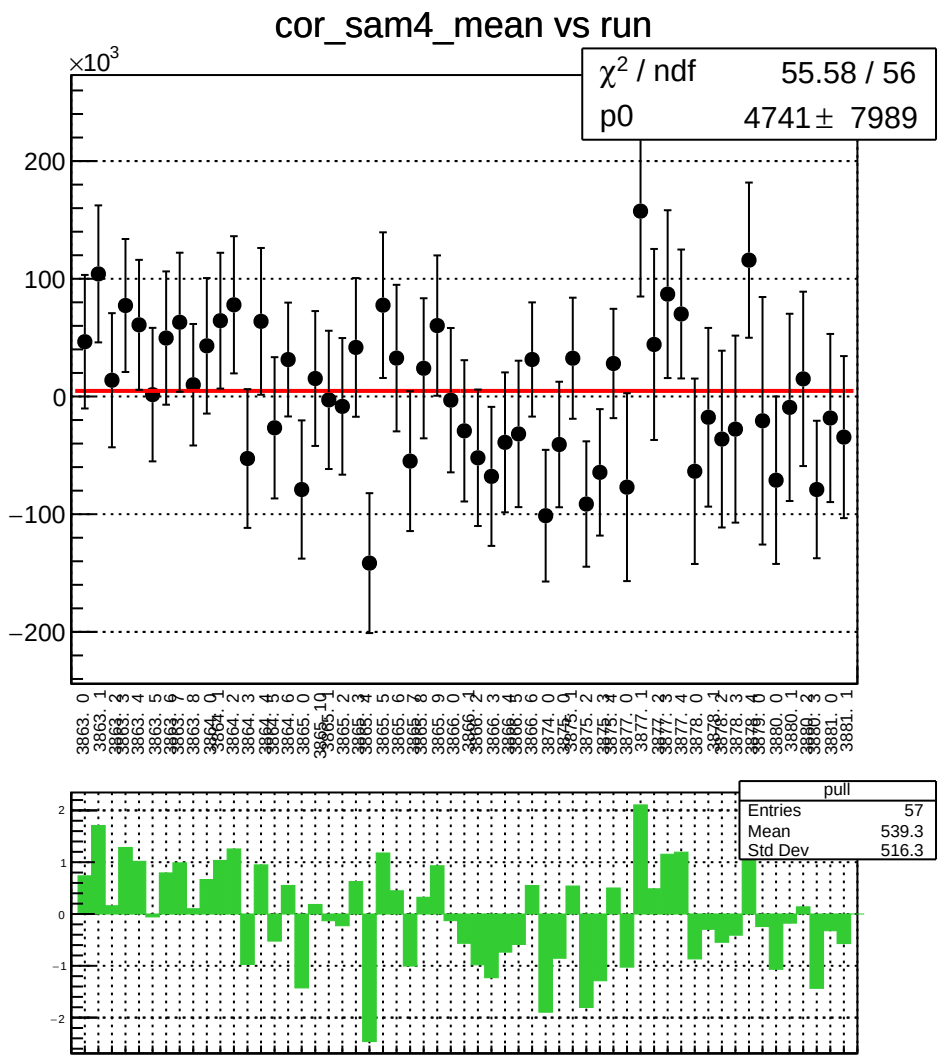

cor_sam2_mean vs run
×10^3
χ² / ndf 52.56 / 56
p0 −6875 ± 1.052e+04
pull
Entries 57
Mean 225.8
Std Dev 198.1

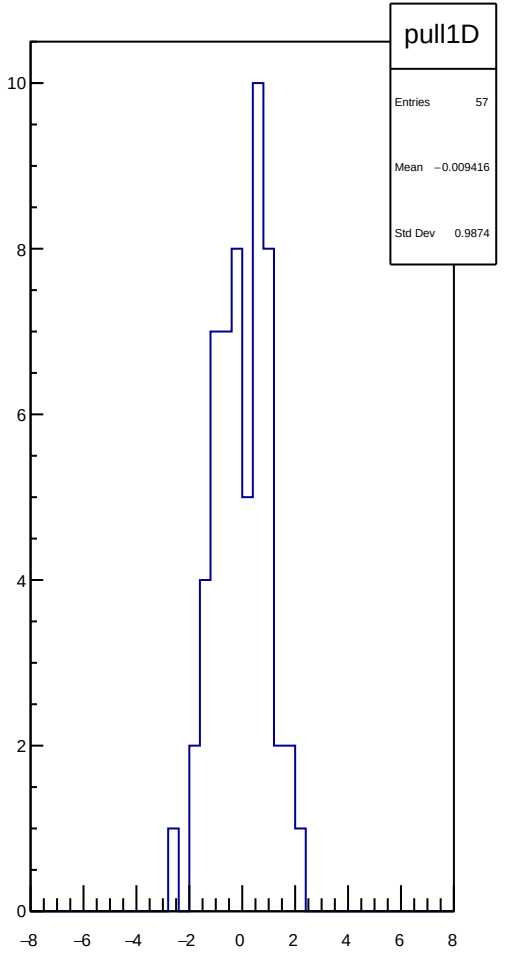

pull1D
Entries 57
Mean −0.02544
Std Dev 0.9599

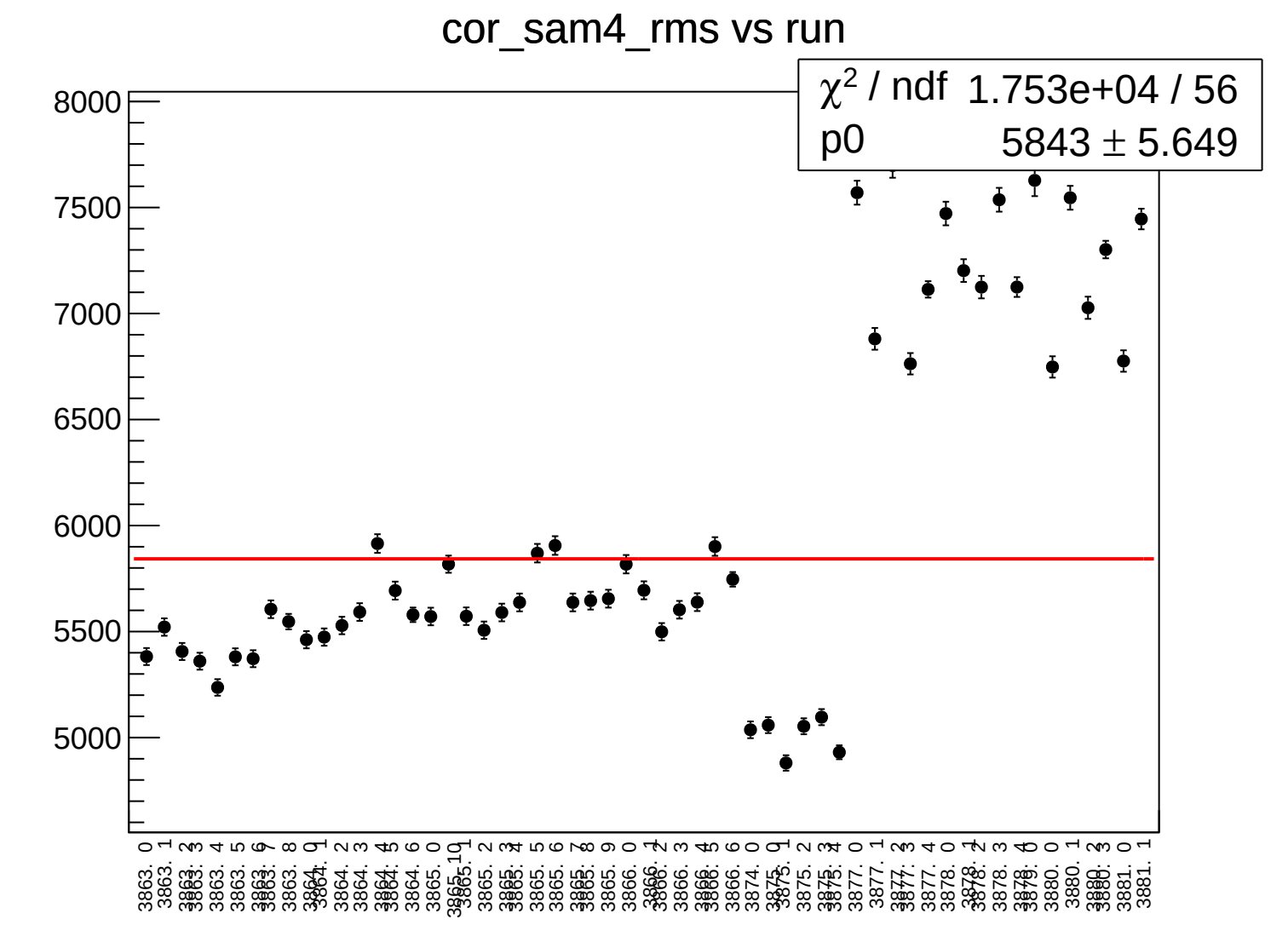

cor_sam2_rms vs run
χ² / ndf 2.046e+04 / 56
p0 7683 ± 7.437
10500
10000
9500
9000
8500
8000
7500
7000
6500

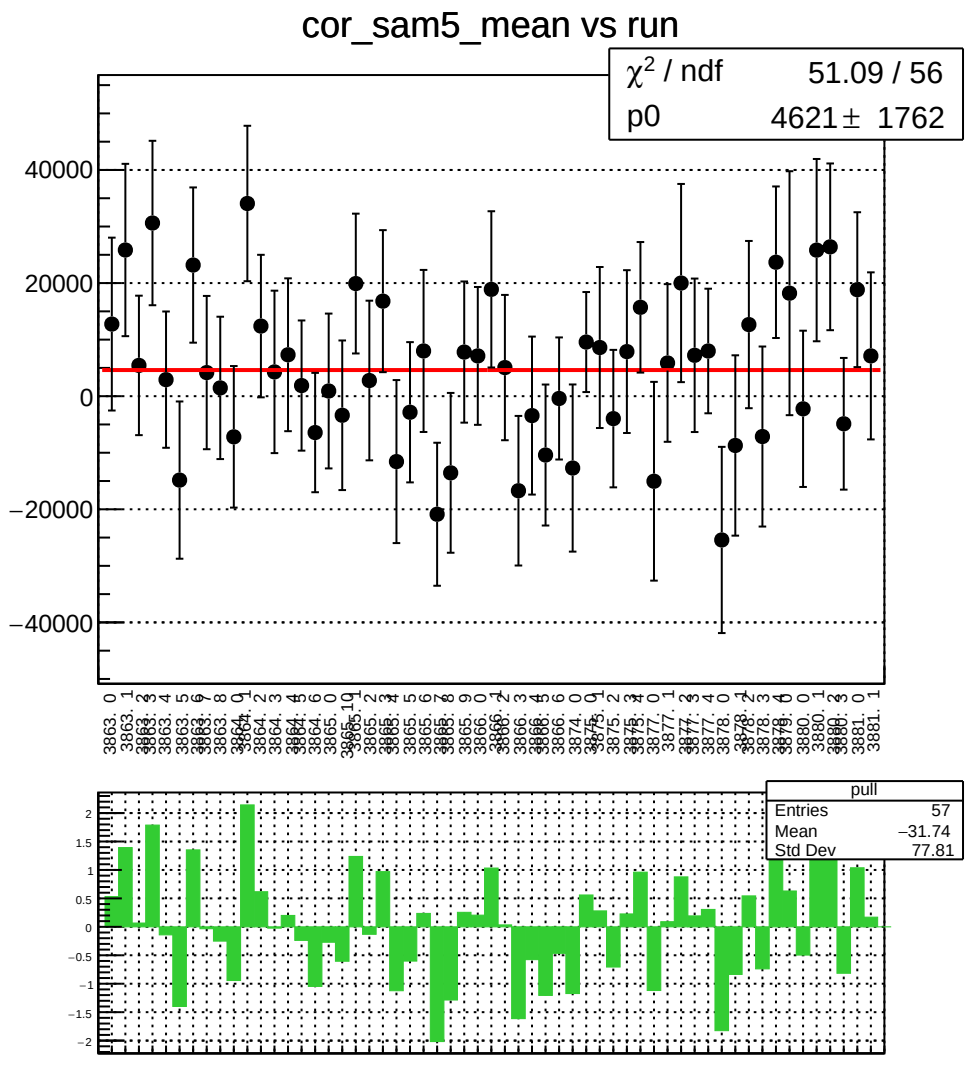

cor_sam3_mean vs run
×10^3
χ² / ndf 56.88 / 56
p0 −3131 ± 1.335e+04
pull
Entries 57
Mean 304.8
Std Dev 279
pull1D
Entries 57
Mean −0.01855
Std Dev 0.9988

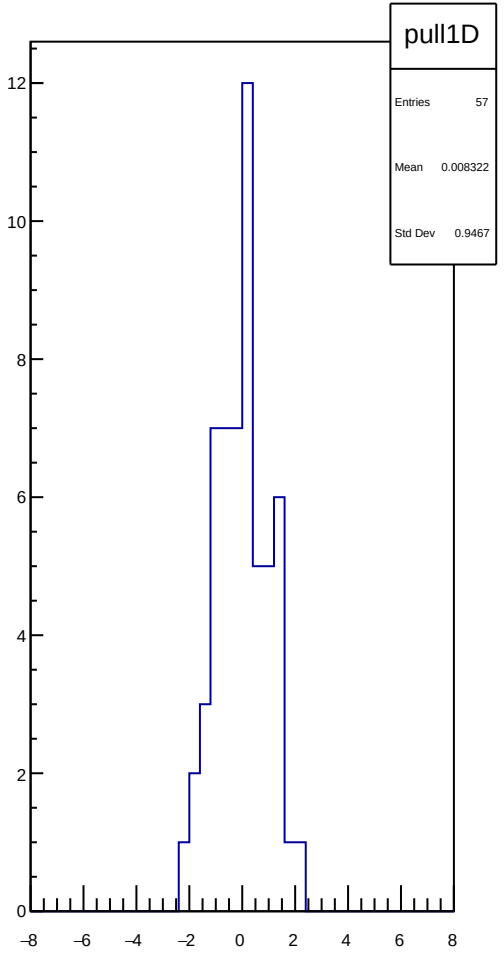

cor_sam3_rms vs run
χ² / ndf 2.031e+04 / 56
p0 9751 ± 9.44
13000
12000
11000
10000
9000
8000

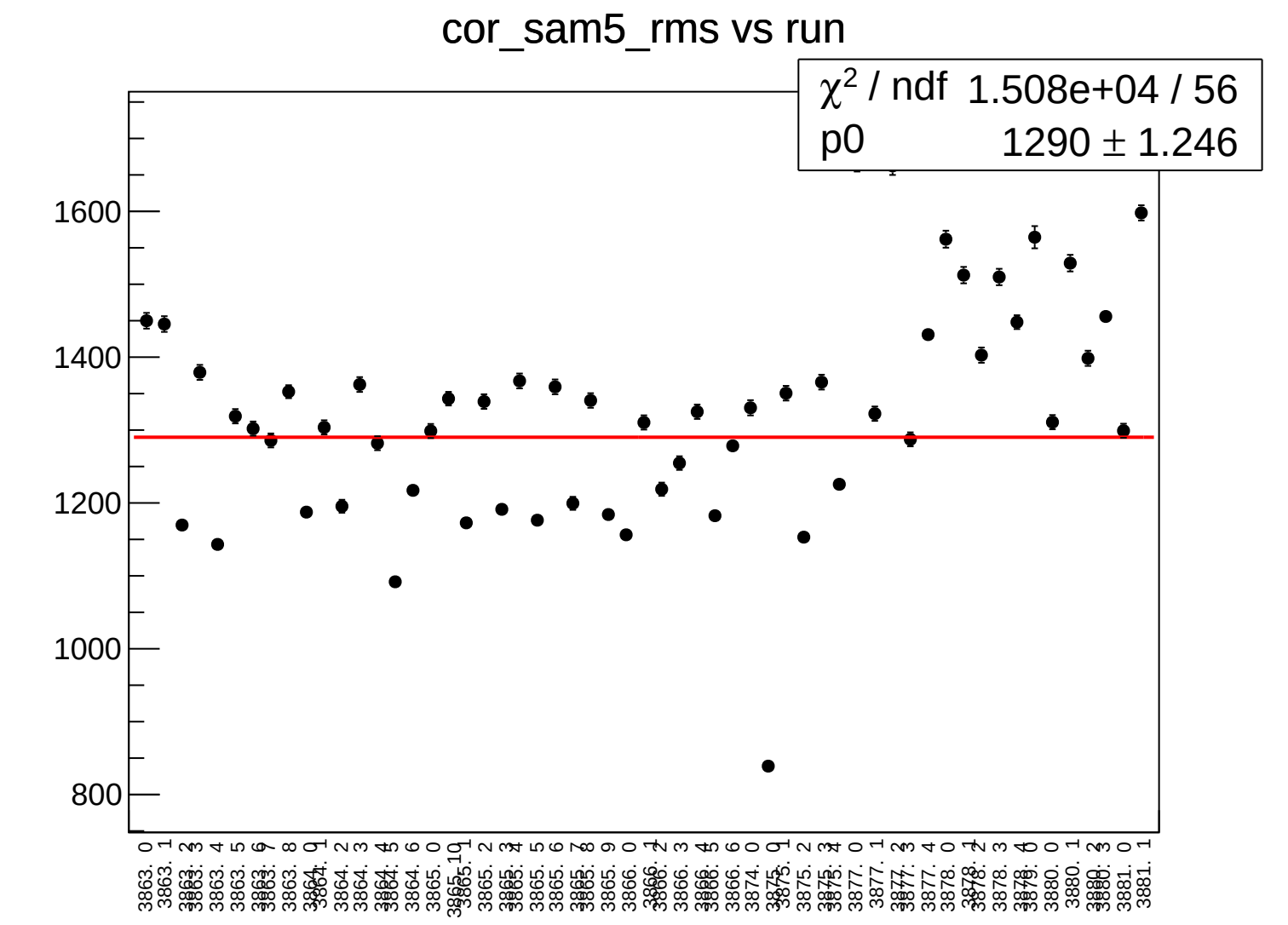

cor_sam4_mean vs run
×10^3
χ^2 / ndf 55.58 / 56
p0 4741 ± 7989
200
100
0
−100
−200
pull
Entries 57
Mean 539.3
Std Dev 516.3
2
1
0
−1
−2

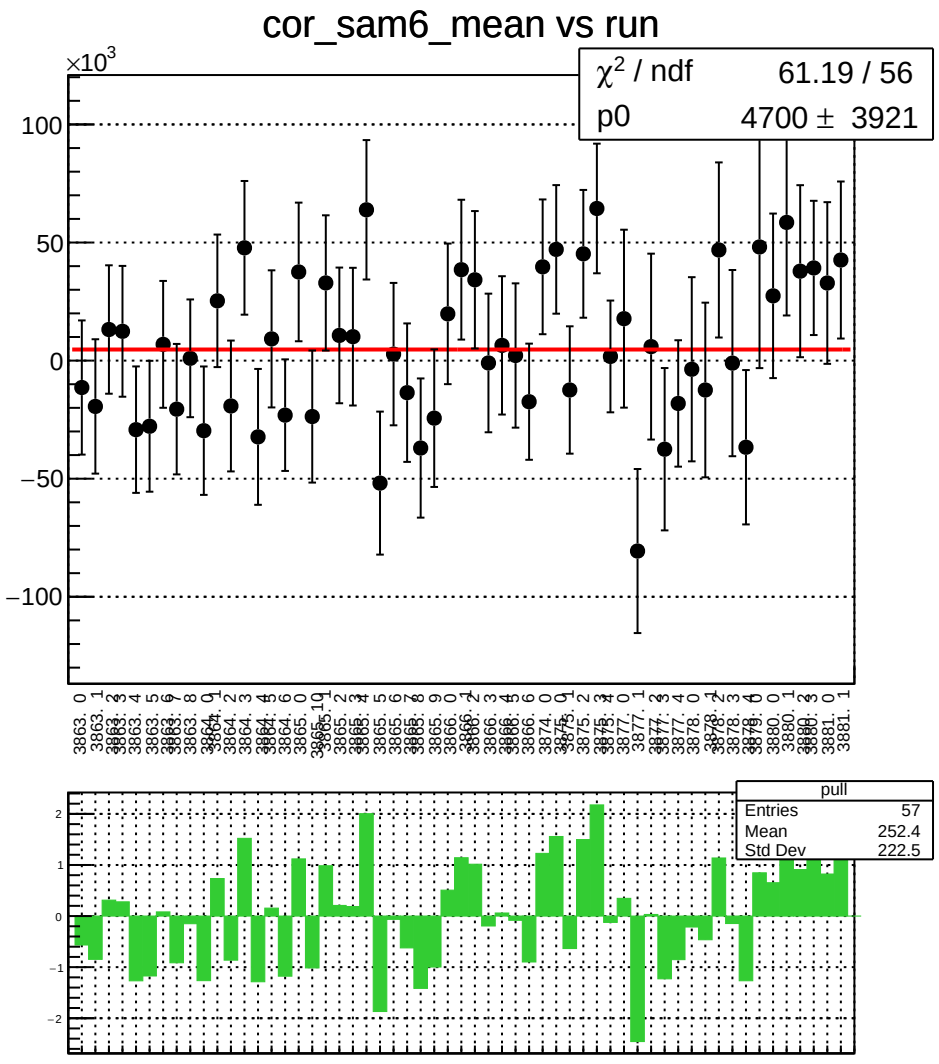

pull1D
Entries 57
Mean −0.009416
Std Dev 0.9874
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

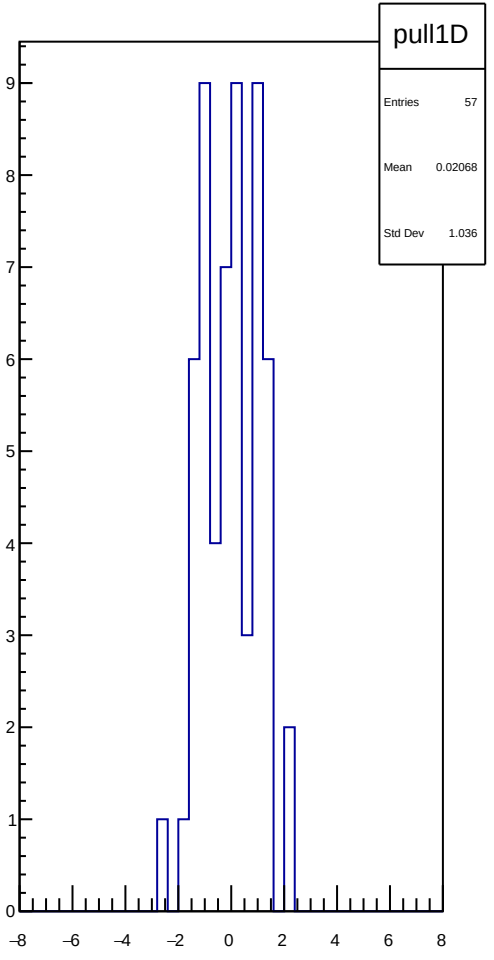

cor_sam4_rms vs run
χ² / ndf 1.753e+04 / 56
p0 5843 ± 5.649
8000
7500
7000
6500
6000
5500
5000
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

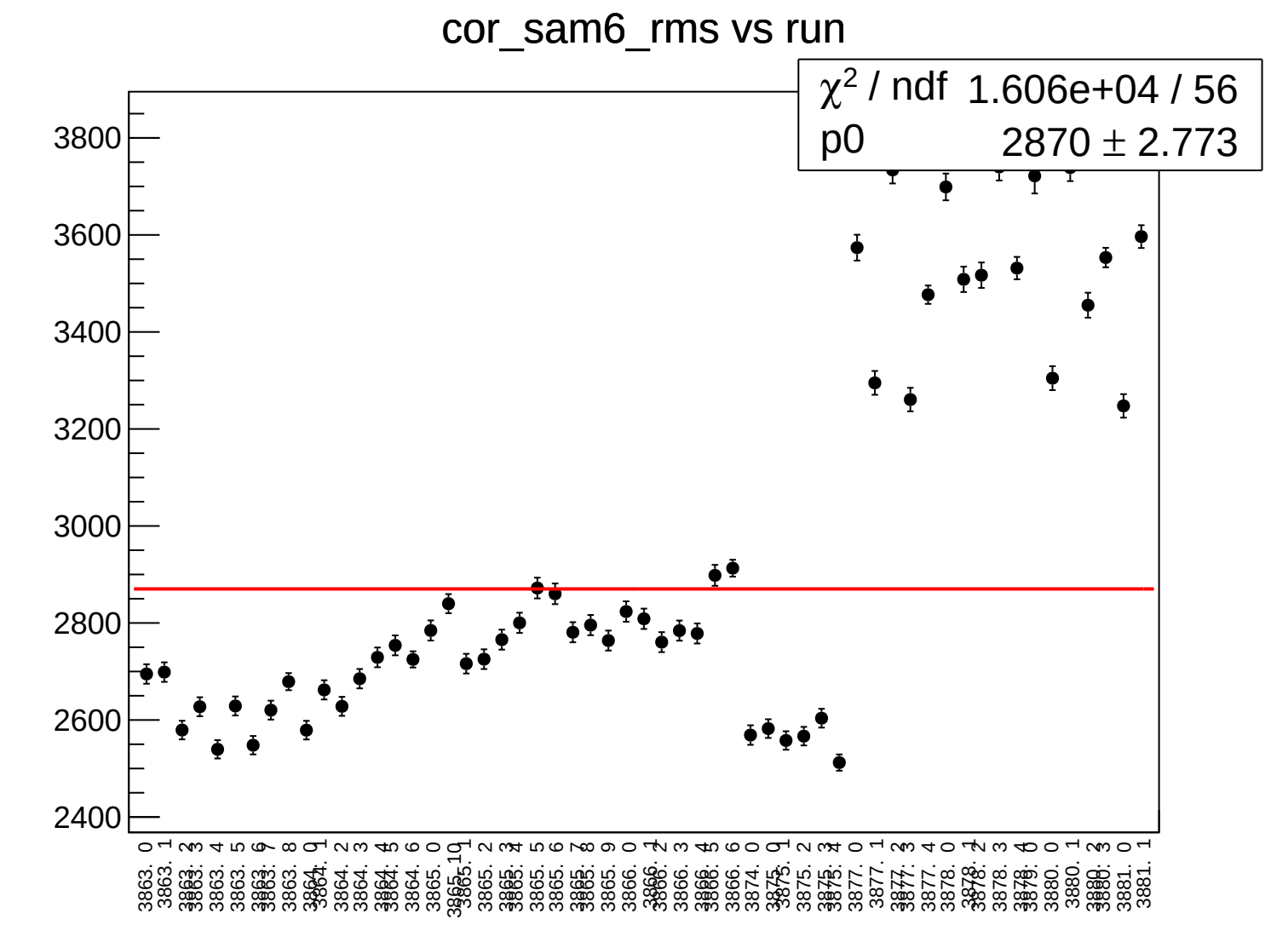

cor_sam5_mean vs run
χ² / ndf 51.09 / 56
p0 4621 ± 1762
40000
20000
0
−20000
−40000
pull
Entries 57
Mean −31.74
Std Dev 77.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

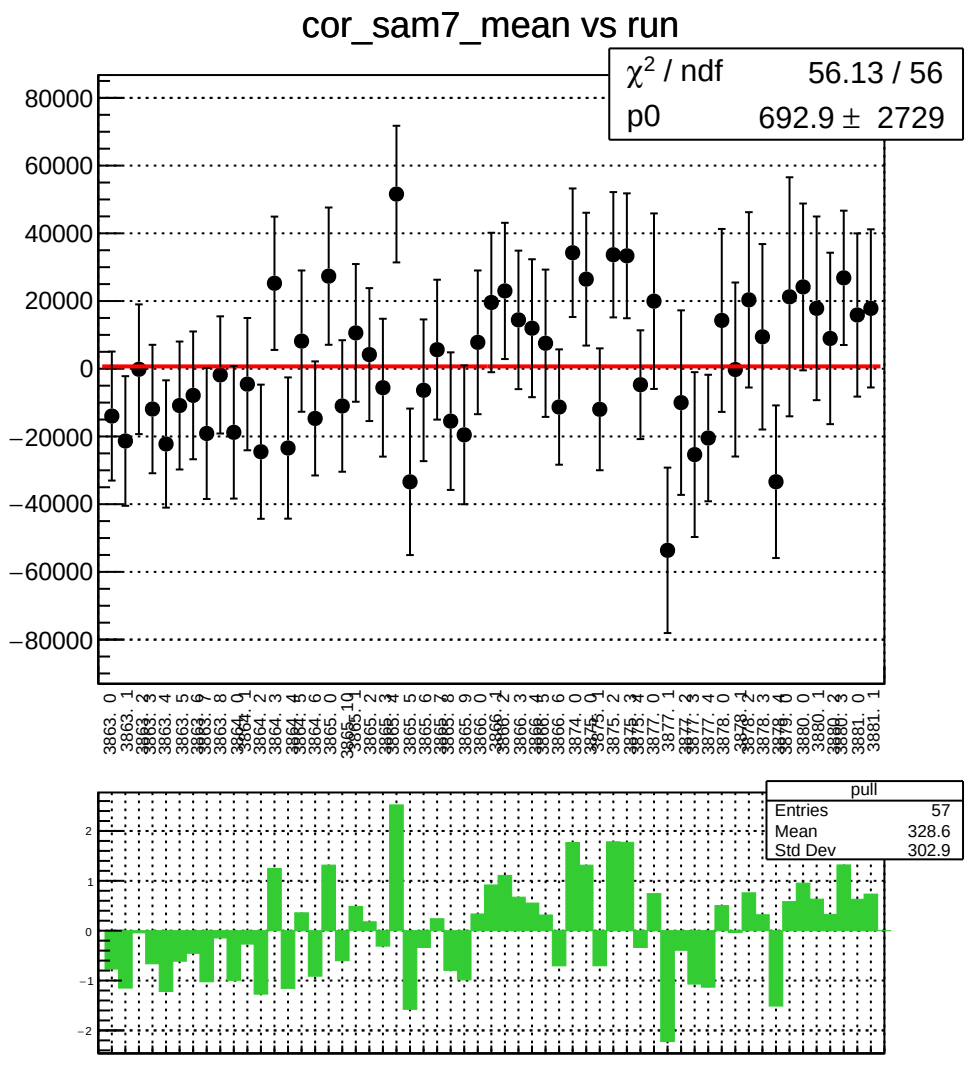

pull1D
Entries 57
Mean 0.008322
Std Dev 0.9467
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

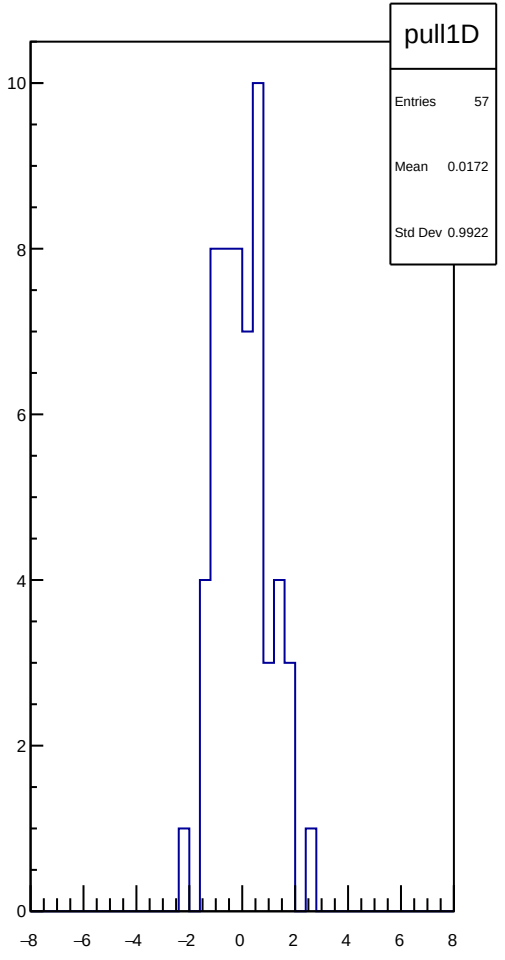

cor_sam5_rms vs run
χ² / ndf 1.508e+04 / 56
p0 1290 ± 1.246
1600
1400
1200
1000
800
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

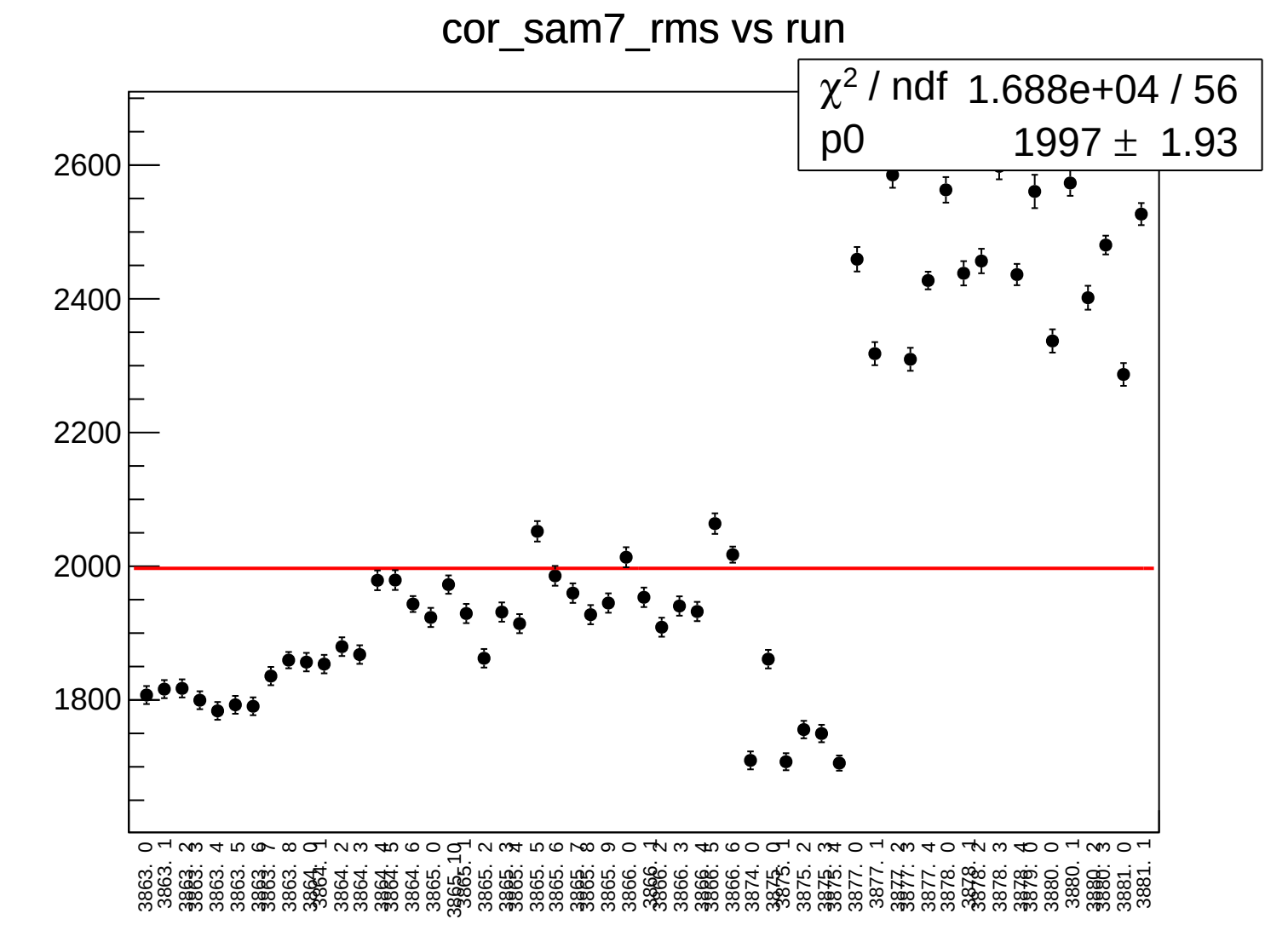

cor_sam6_mean vs run
×10^3
χ² / ndf 61.19 / 56
p0 4700 ± 3921
100
50
0
−50
−100
pull
Entries 57
Mean 252.4
Std Dev 222.5
2
1
0
−1
−2

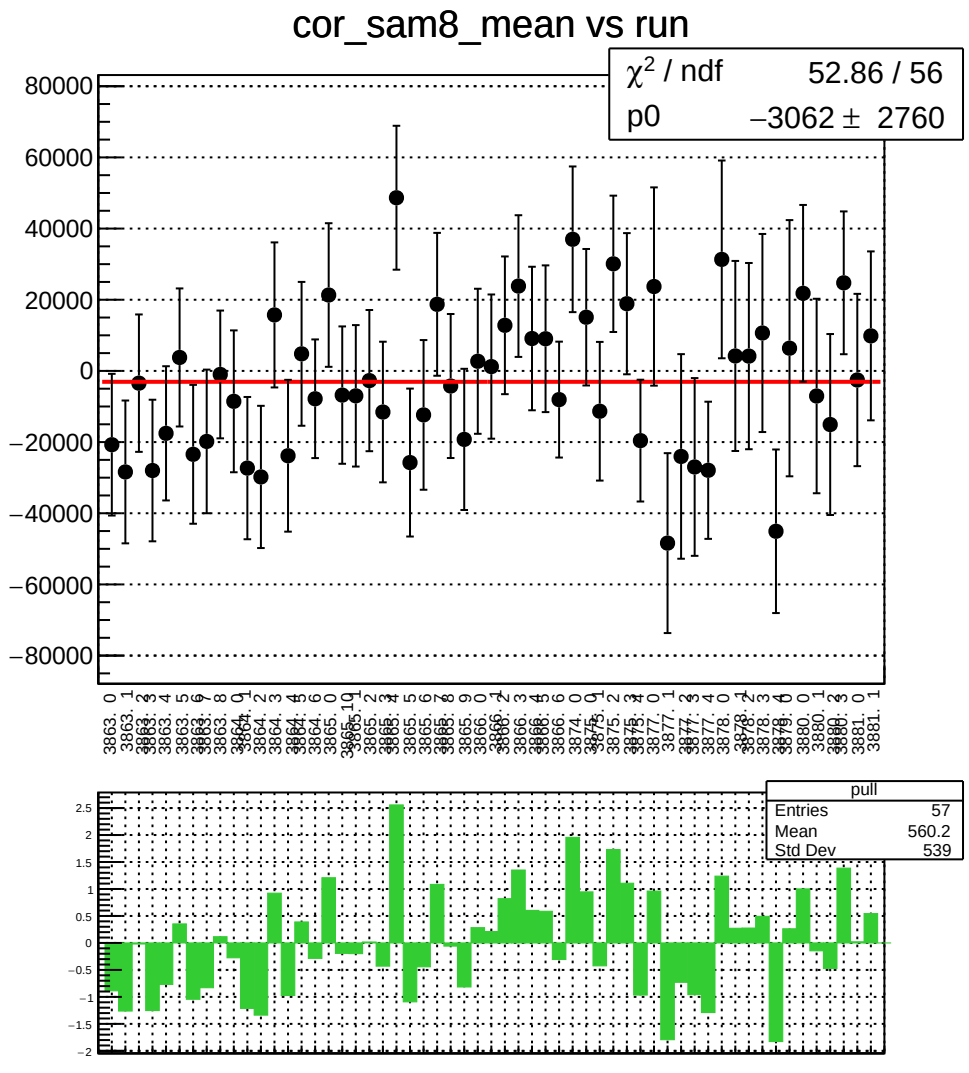

pull1D
Entries 57
Mean 0.02068
Std Dev 1.036
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

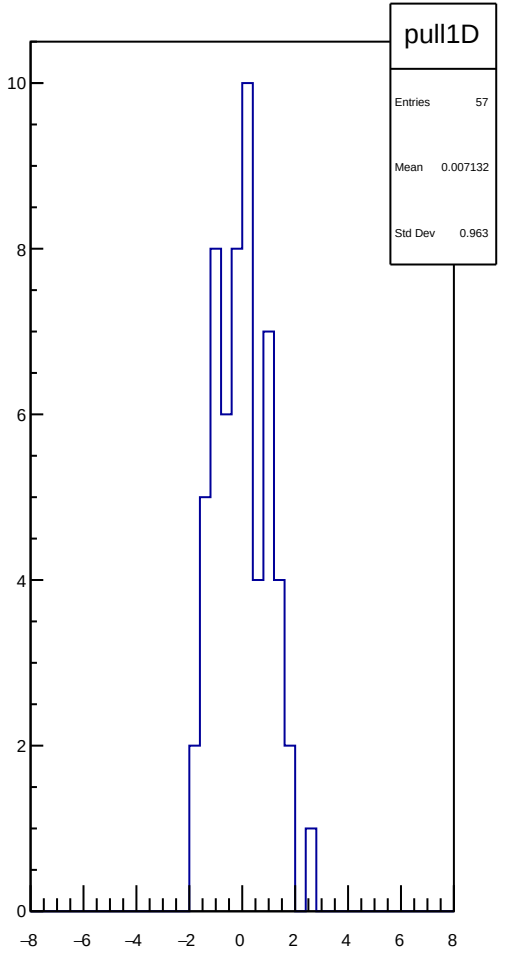

cor_sam6_rms vs run
χ² / ndf 1.606e+04 / 56
p0 2870 ± 2.773
3800
3600
3400
3200
3000
2800
2600
2400

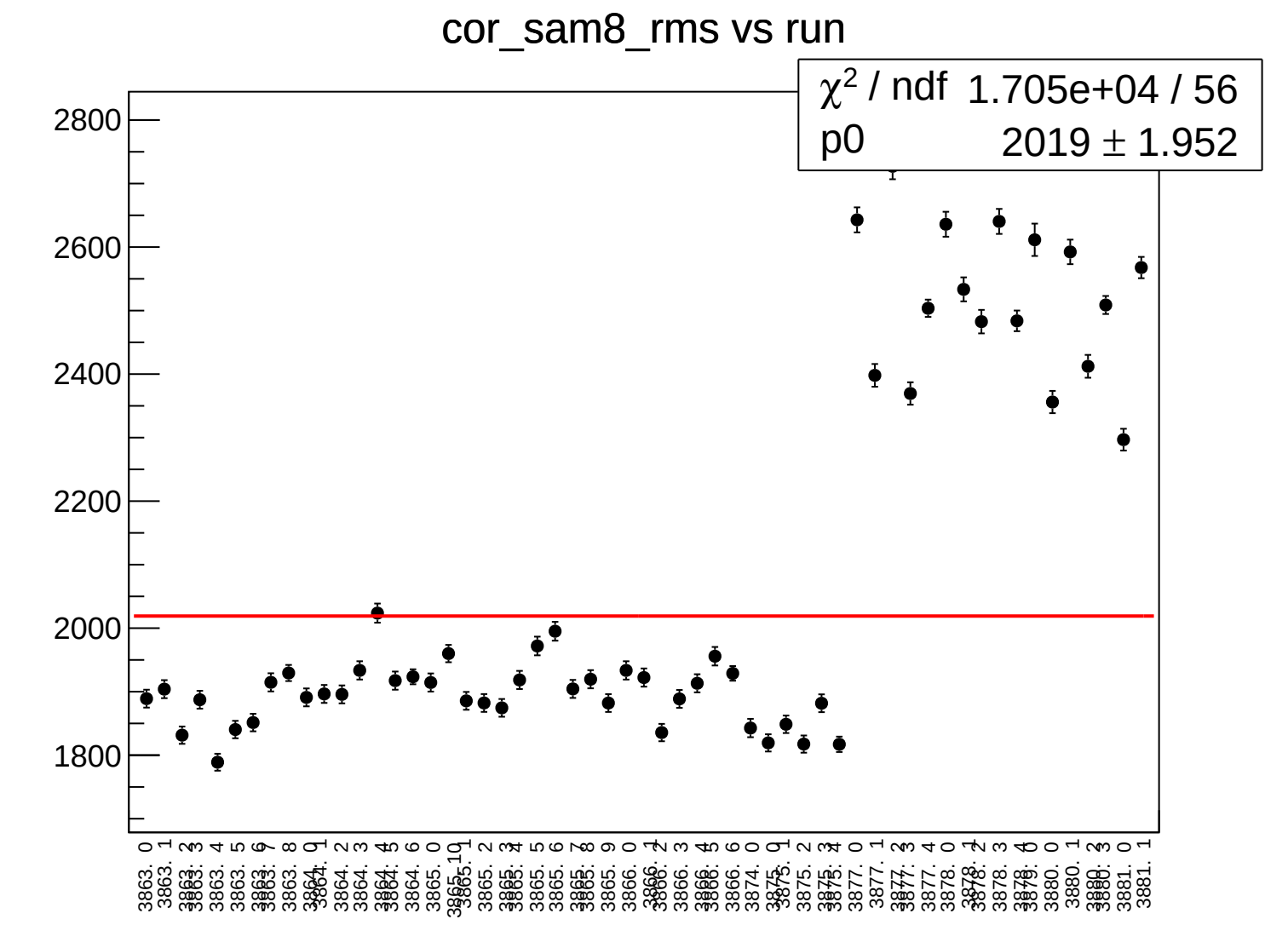

cor_sam7_mean vs run
χ² / ndf 56.13 / 56
p0 692.9 ± 2729
pull
Entries 57
Mean 328.6
Std Dev 302.9

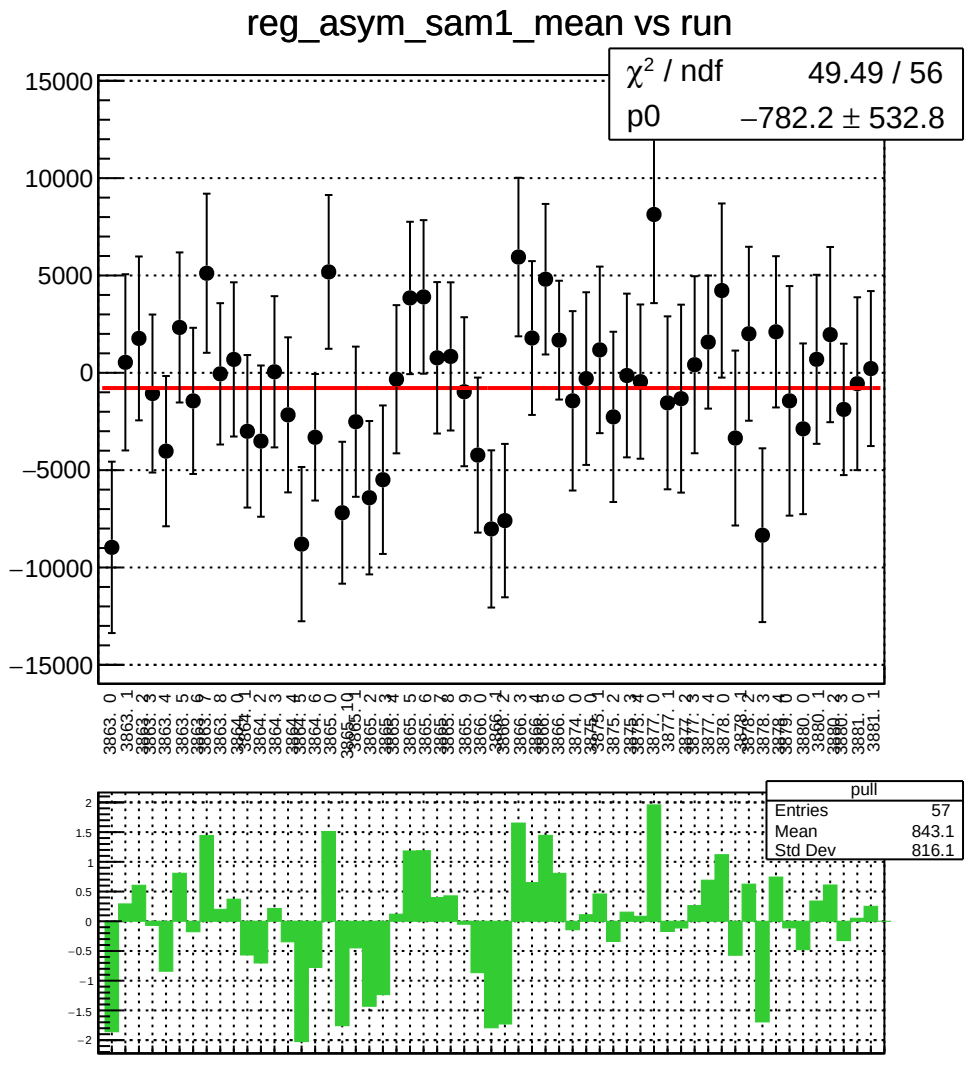

pull1D
Entries 57
Mean 0.0172
Std Dev 0.9922

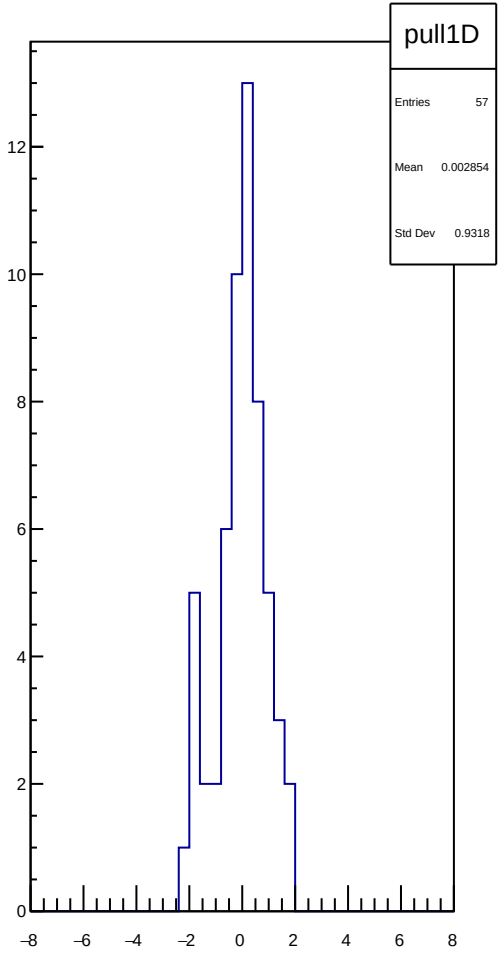

cor_sam7_rms vs run
χ² / ndf 1.688e+04 / 56
p0 1997 ± 1.93
2600
2400
2200
2000
1800
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

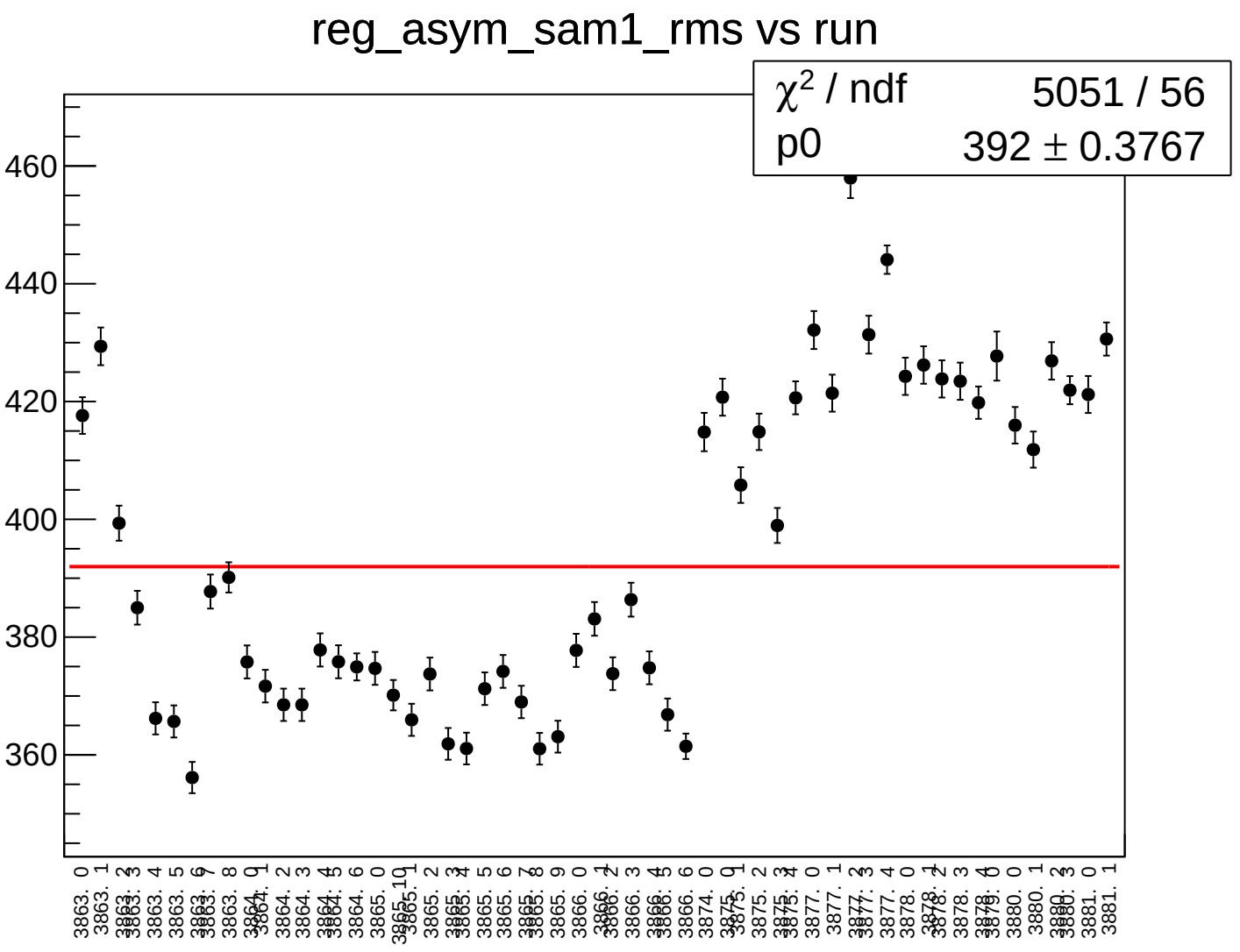

cor_sam8_mean vs run
χ² / ndf 52.86 / 56
p0 −3062 ± 2760
pull
Entries 57
Mean 560.2
Std Dev 539

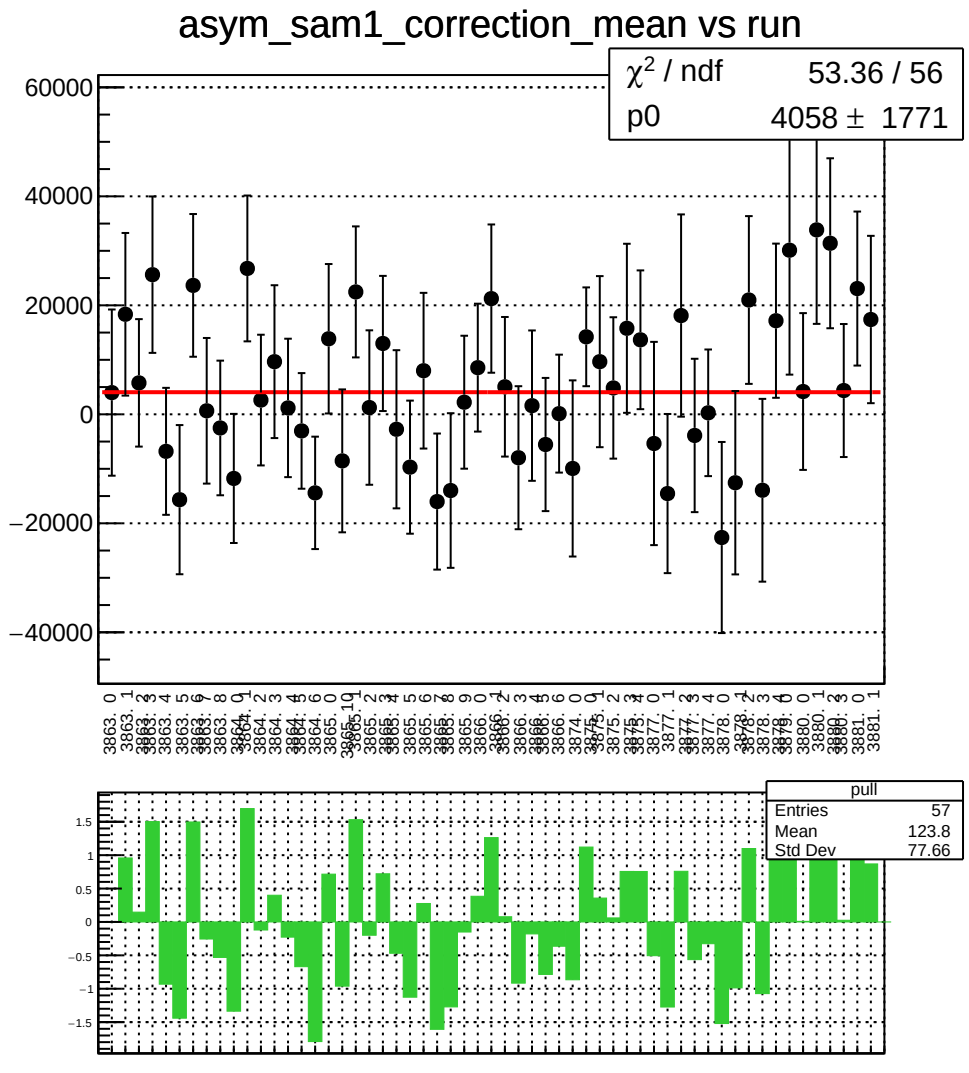

pull1D
Entries 57
Mean 0.007132
Std Dev 0.963

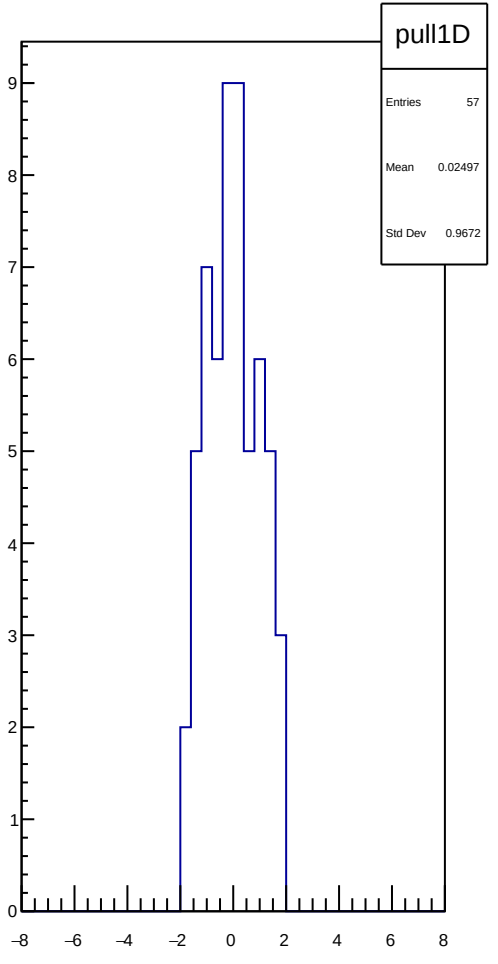

cor_sam8_rms vs run
χ² / ndf 1.705e+04 / 56
p0 2019 ± 1.952
2800
2600
2400
2200
2000
1800

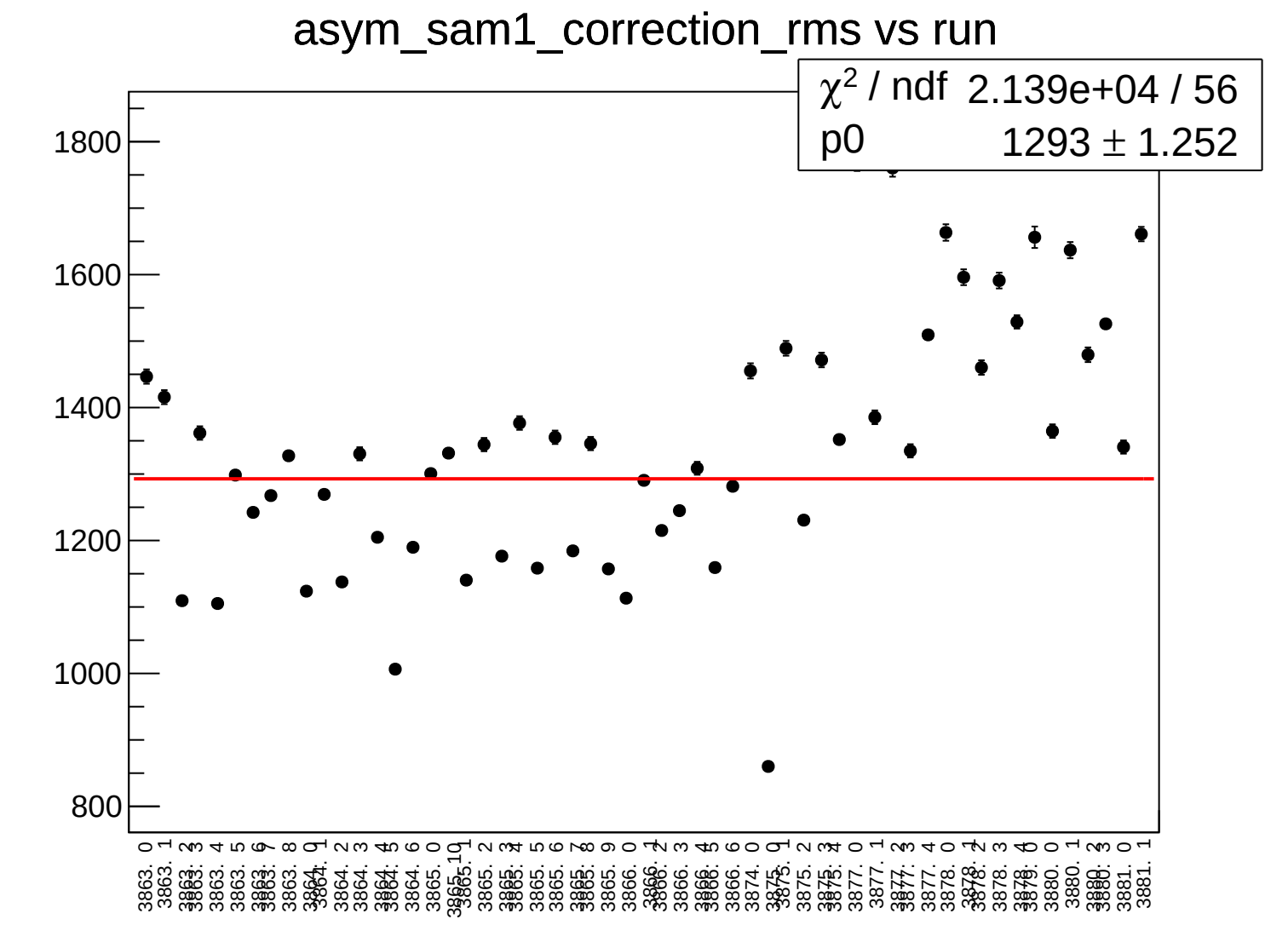

reg_asym_sam1_mean vs run
χ² / ndf 49.49 / 56
p0 −782.2 ± 532.8
pull
Entries 57
Mean 843.1
Std Dev 816.1

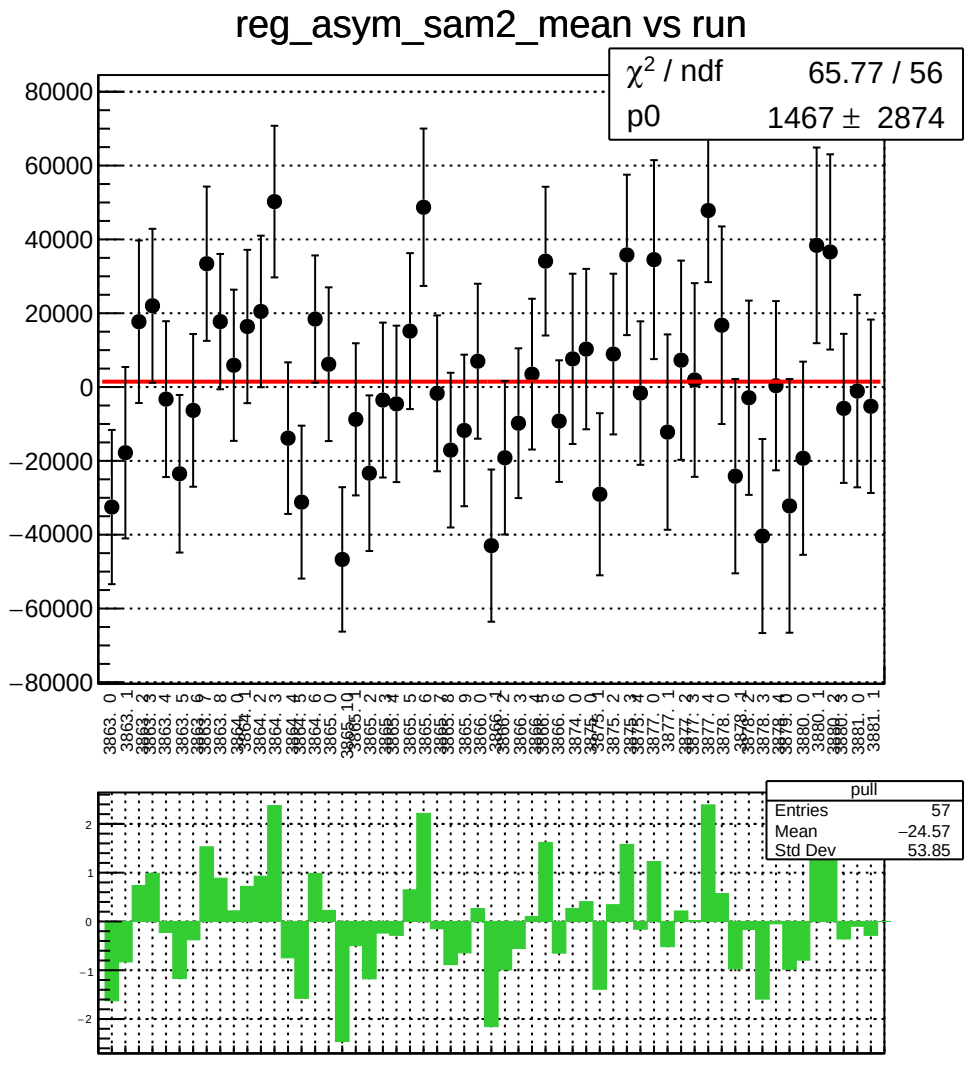

pull1D
Entries 57
Mean 0.002854
Std Dev 0.9318

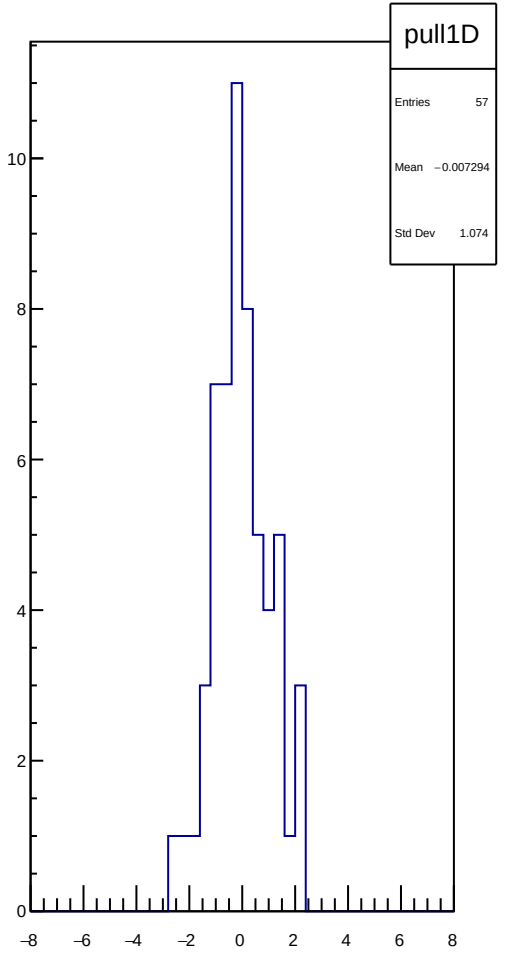

reg_asym_sam1_rms vs run
χ² / ndf 5051 / 56
p0 392 ± 0.3767
460
440
420
400
380
360

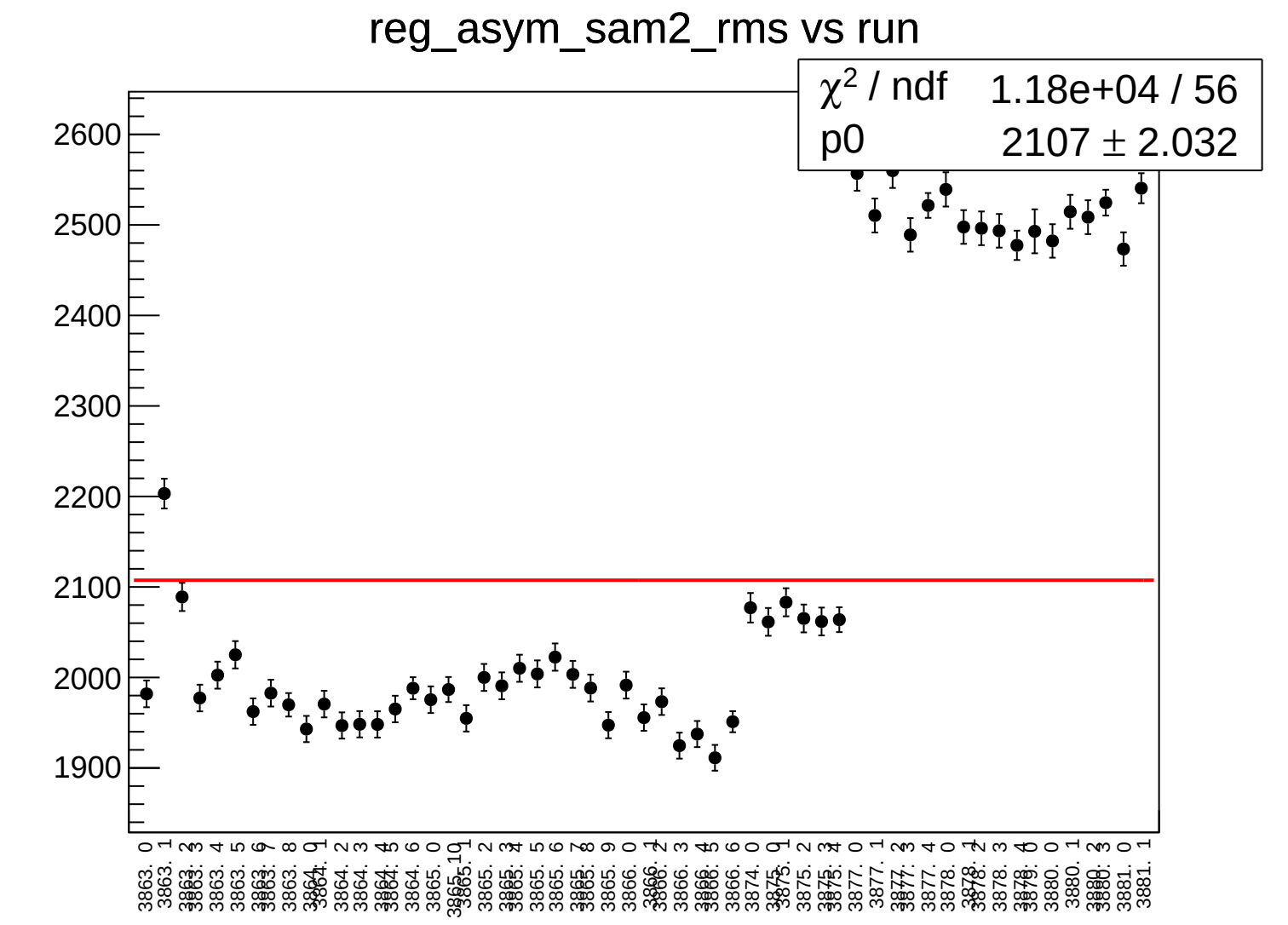

asym_sam1_correction_mean vs run
χ² / ndf 53.36 / 56
p0 4058 ± 1771
pull
Entries 57
Mean 123.8
Std Dev 77.66

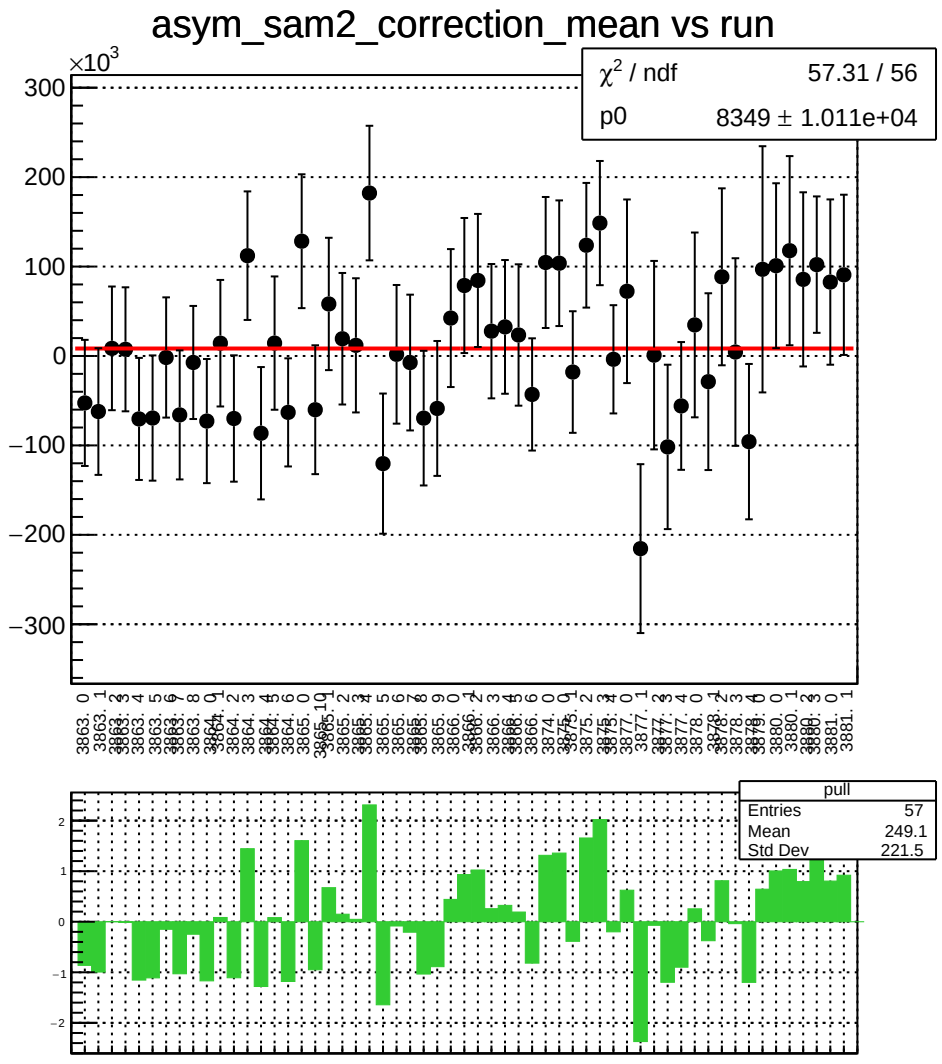

pull1D
Entries 57
Mean 0.02497
Std Dev 0.9672

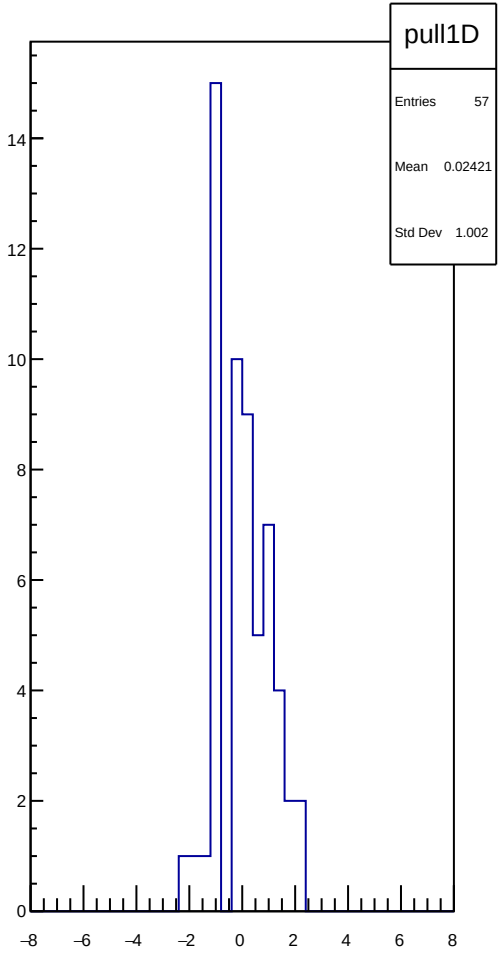

asym_sam1_correction_rms vs run
χ² / ndf 2.139e+04 / 56
p0 1293 ± 1.252
1800
1600
1400
1200
1000
800

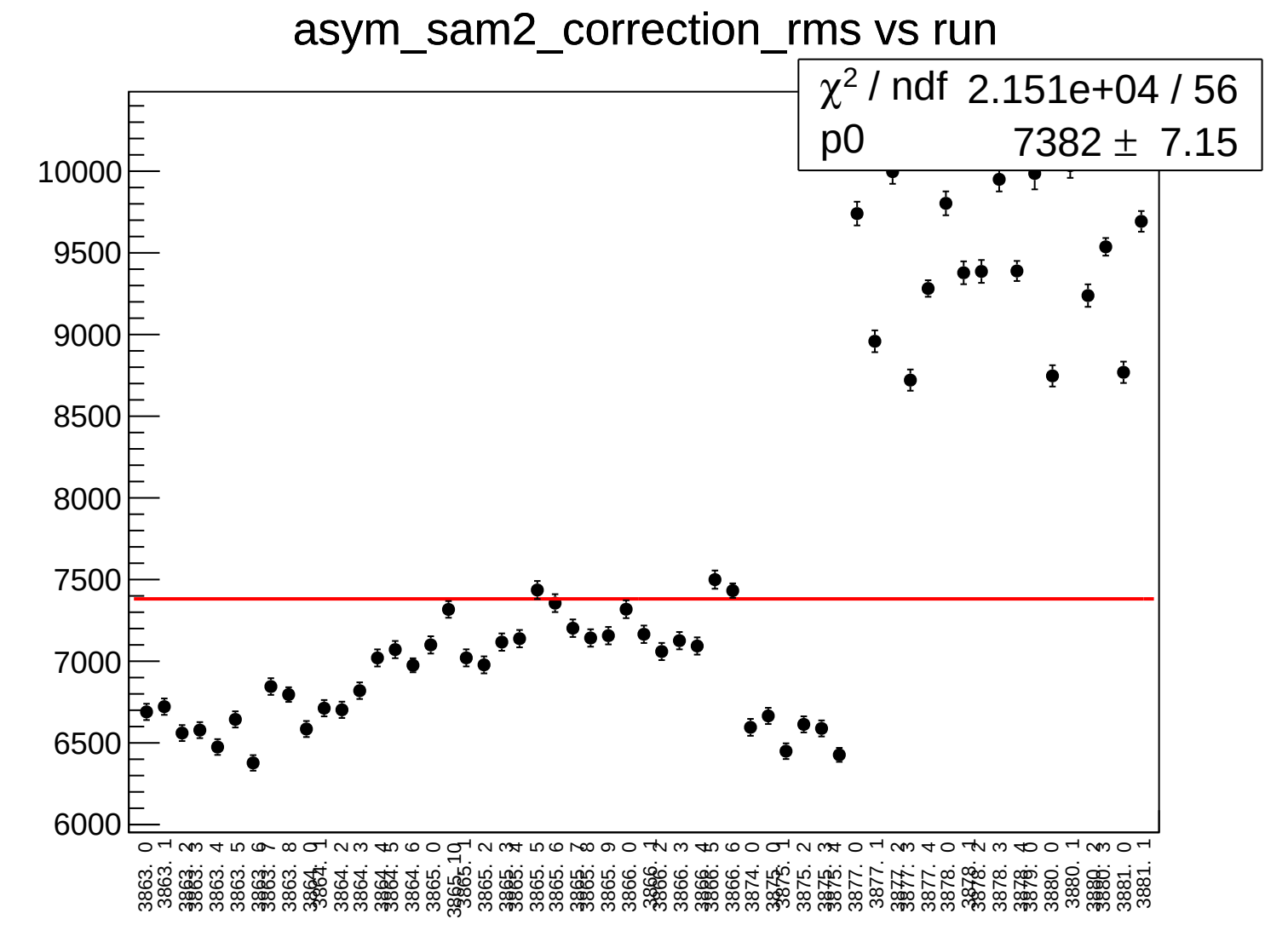

reg_asym_sam2_mean vs run
χ² / ndf 65.77 / 56
p0 1467 ± 2874
pull
Entries 57
Mean −24.57
Std Dev 53.85

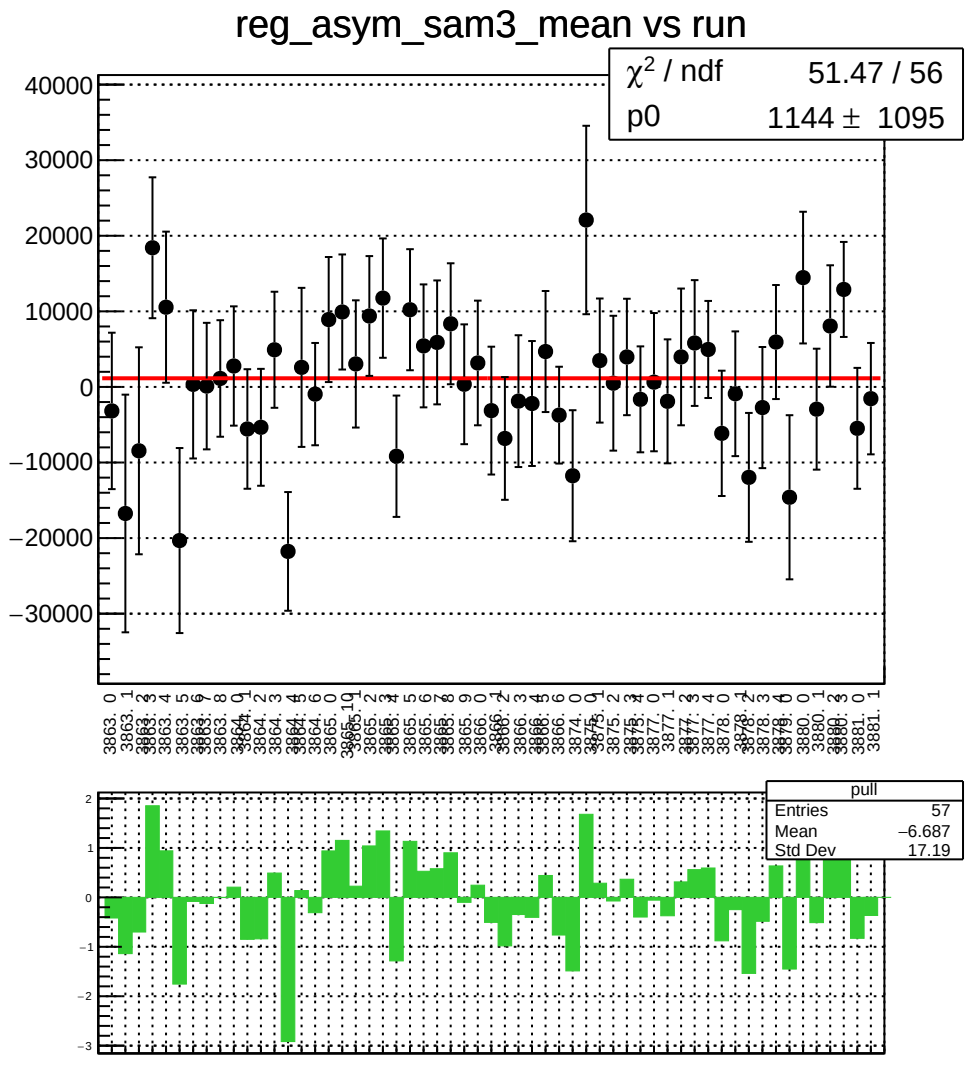

pull1D
Entries 57
Mean −0.007294
Std Dev 1.074

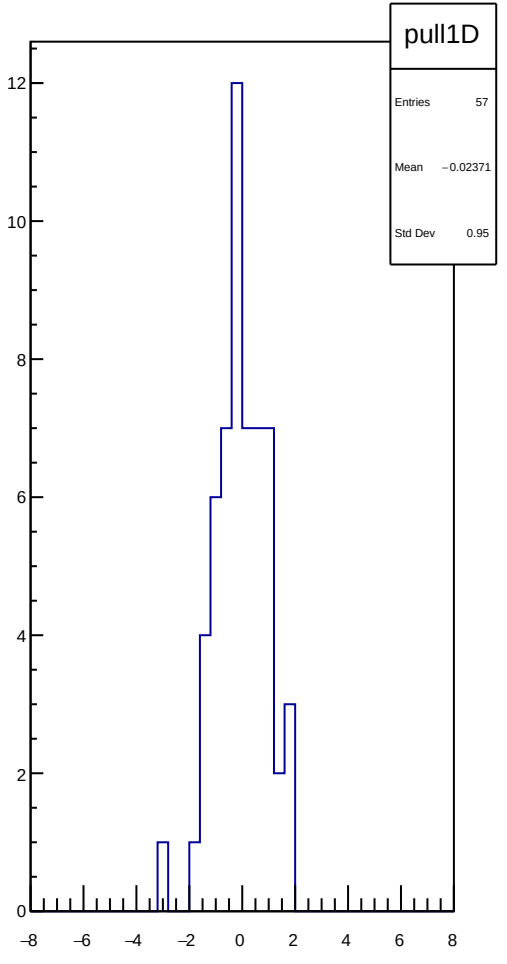

reg_asym_sam2_rms vs run
χ² / ndf 1.18e+04 / 56
p0 2107 ± 2.032
2600
2500
2400
2300
2200
2100
2000
1900

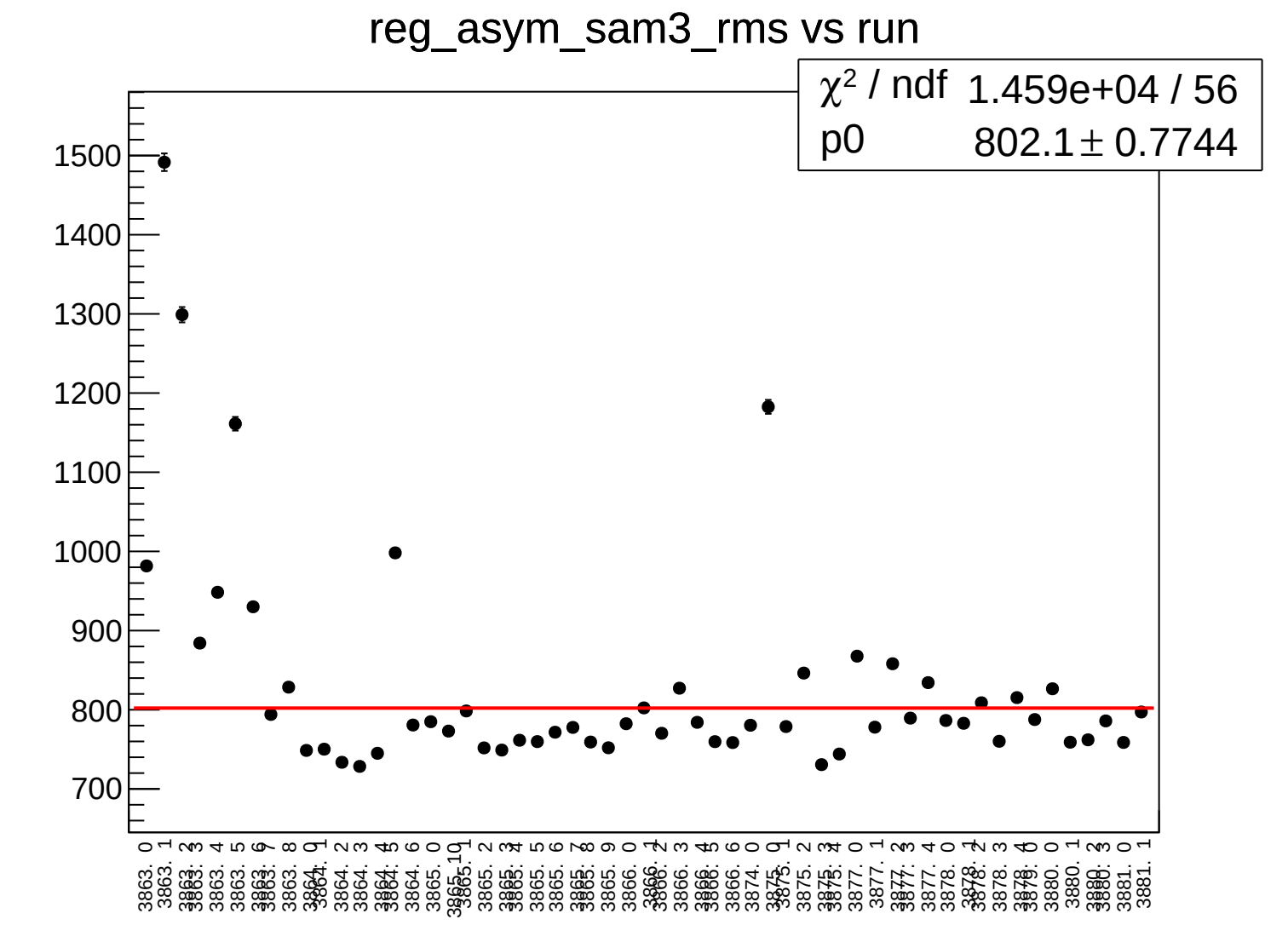

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 57.31 / 56
p0 8349 ± 1.011e+04
pull
Entries 57
Mean 249.1
Std Dev 221.5

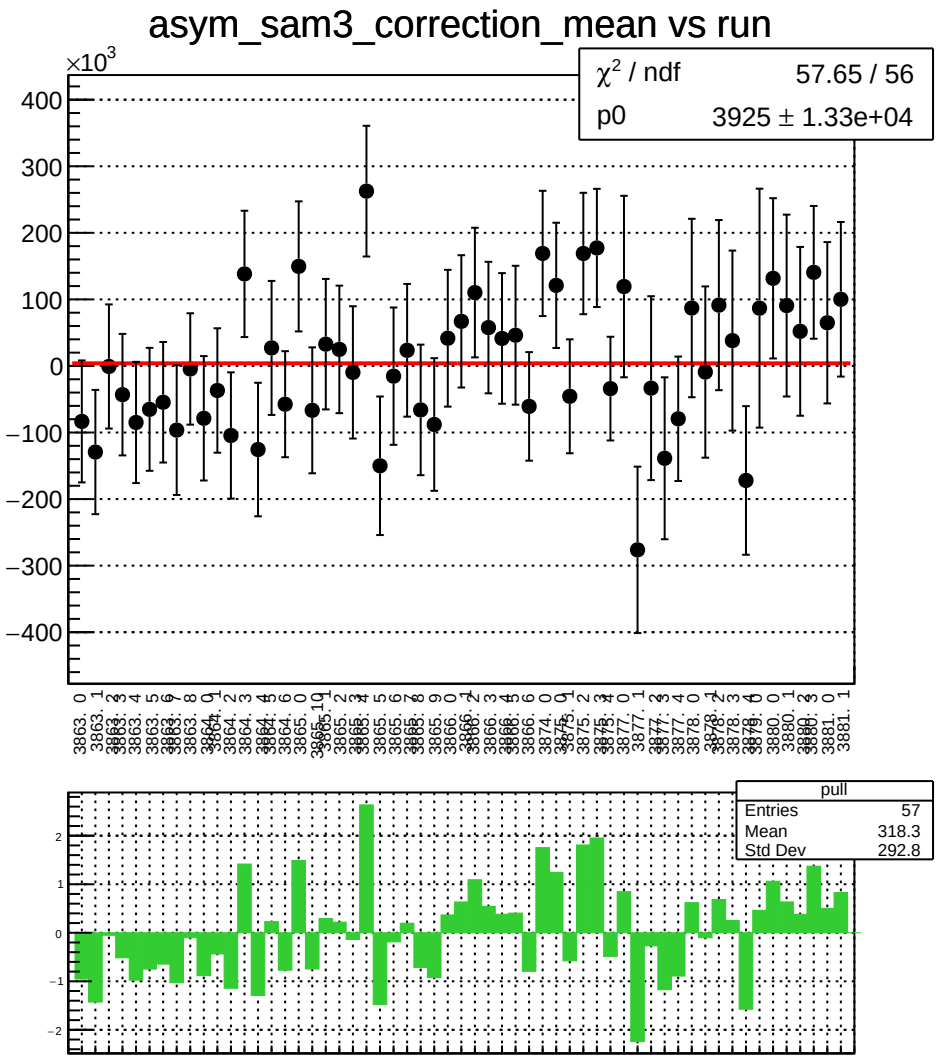

pull1D
Entries 57
Mean 0.02421
Std Dev 1.002

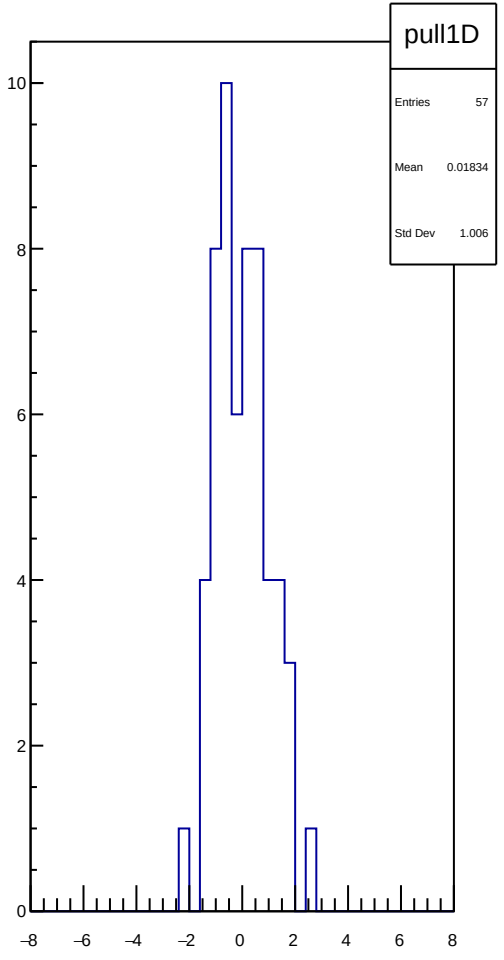

asym_sam2_correction_rms vs run
χ² / ndf 2.151e+04 / 56
p0 7382 ± 7.15
10000
9500
9000
8500
8000
7500
7000
6500
6000

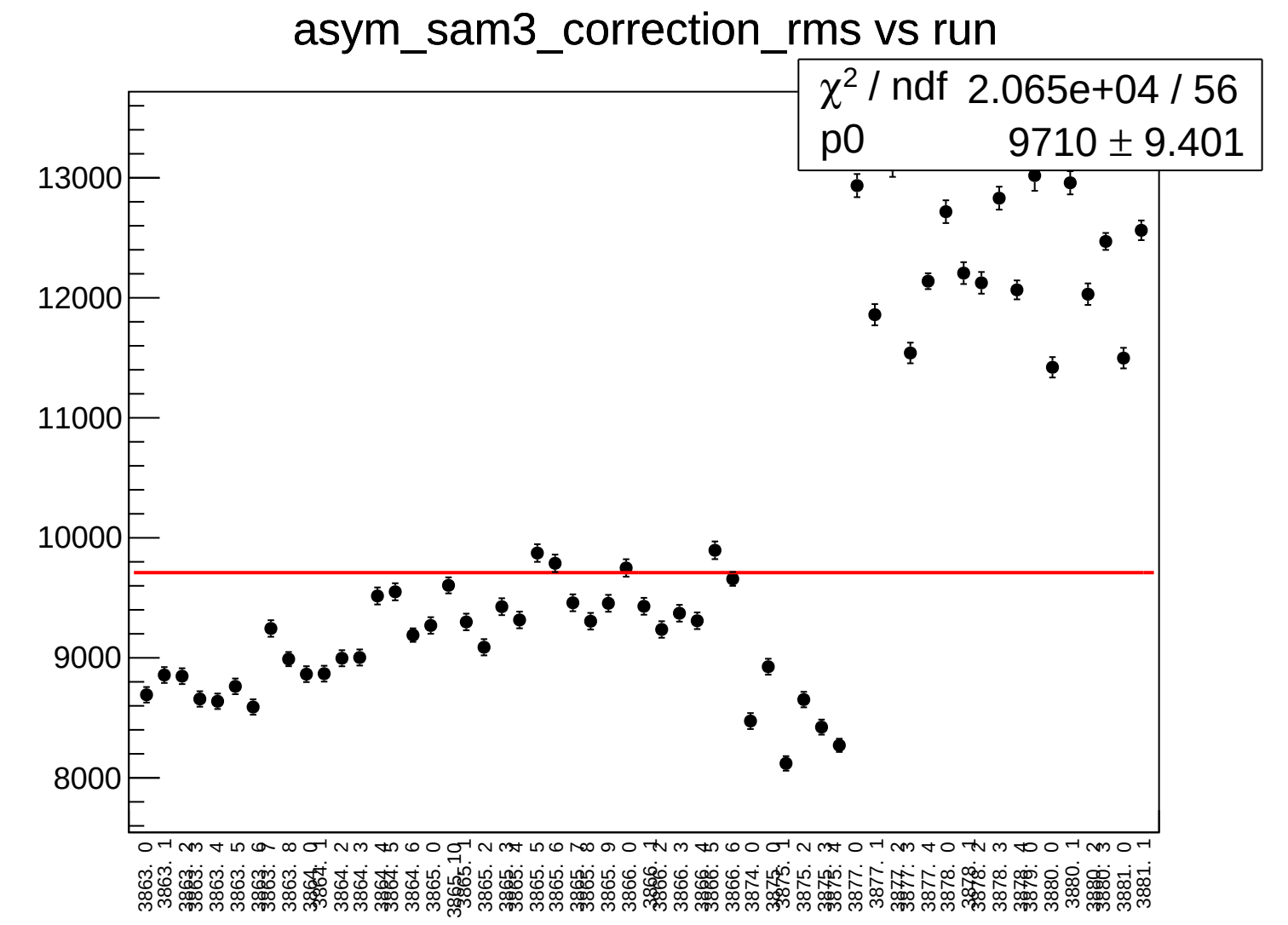

reg_asym_sam3_mean vs run
χ² / ndf 51.47 / 56
p0 1144 ± 1095
pull
Entries 57
Mean −6.687
Std Dev 17.19

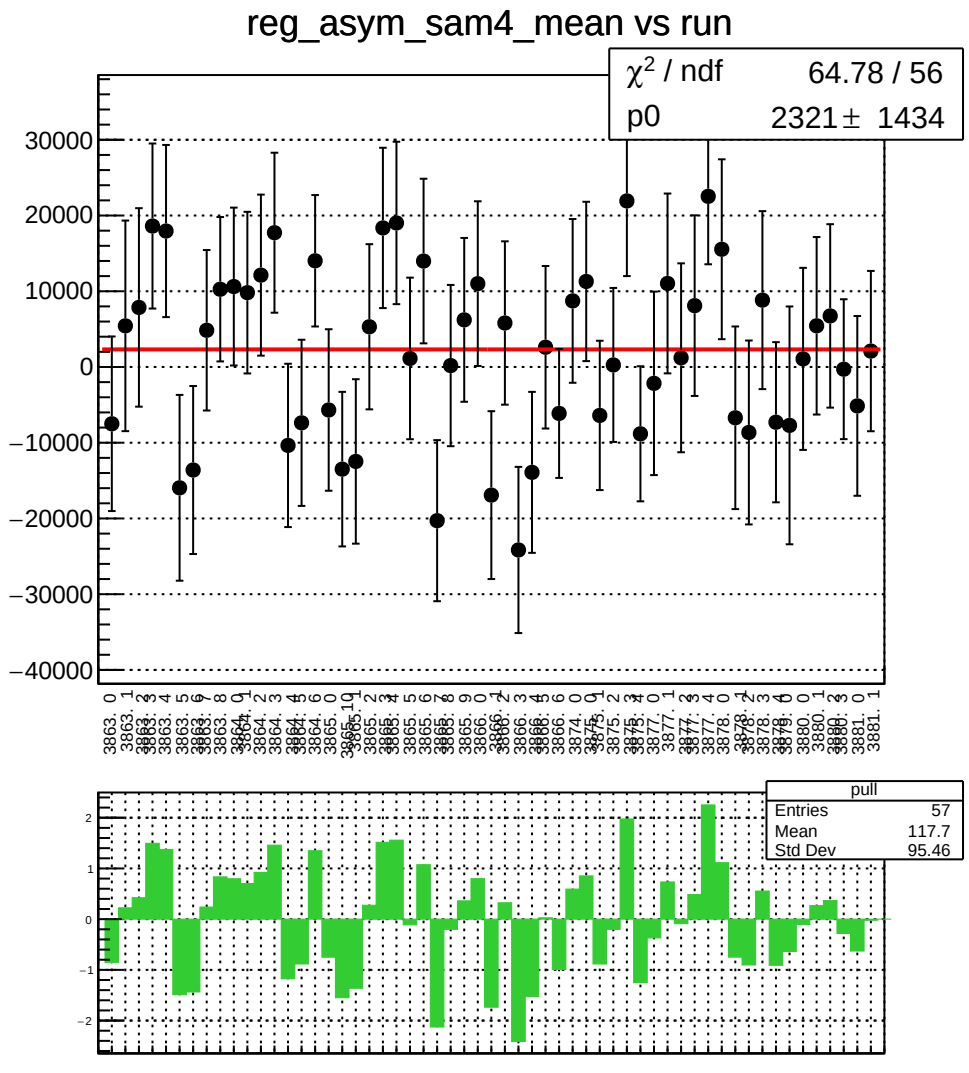

pull1D
Entries 57
Mean −0.02371
Std Dev 0.95

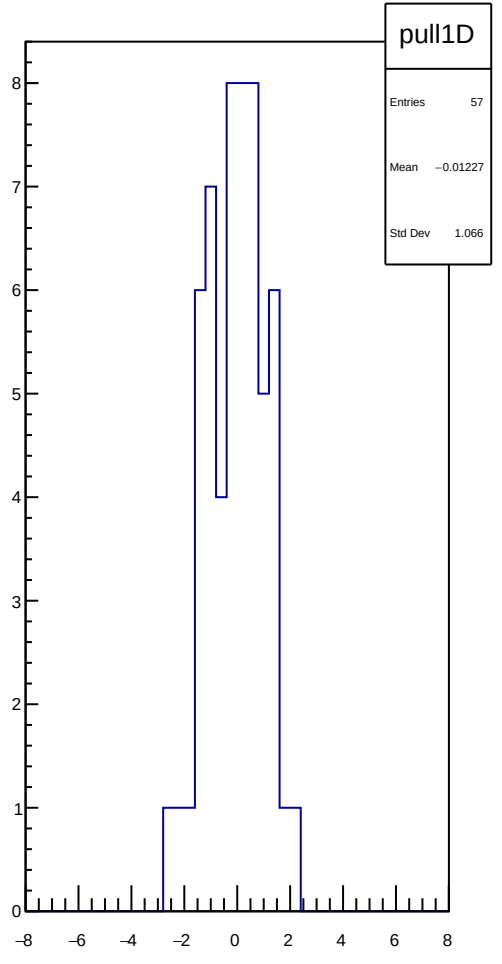

reg_asym_sam3_rms vs run
χ² / ndf 1.459e+04 / 56
p0 802.1 ± 0.7744
1500
1400
1300
1200
1100
1000
900
800
700

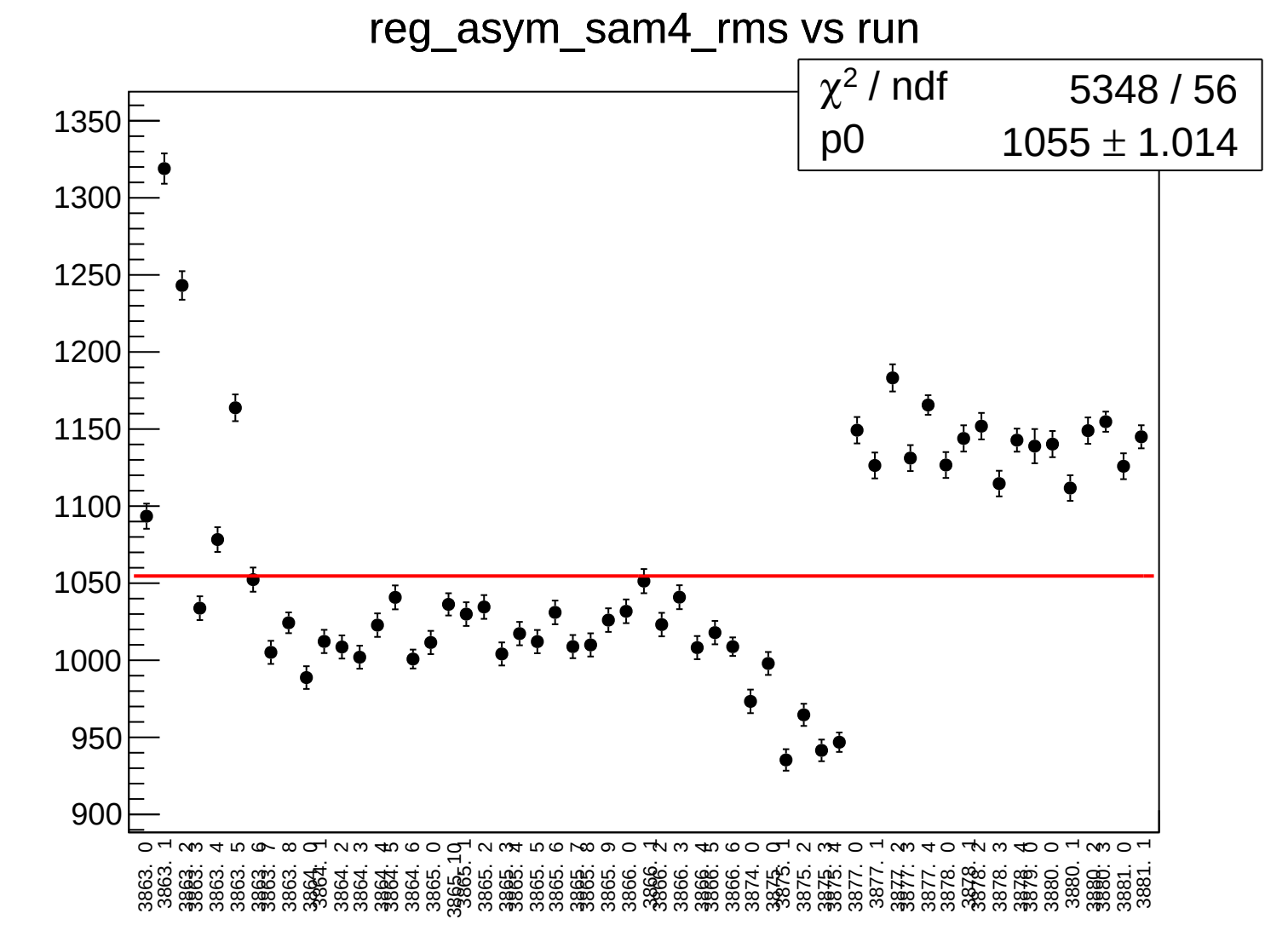

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 57.65 / 56
p0 3925 ± 1.33e+04
pull
Entries 57
Mean 318.3
Std Dev 292.8

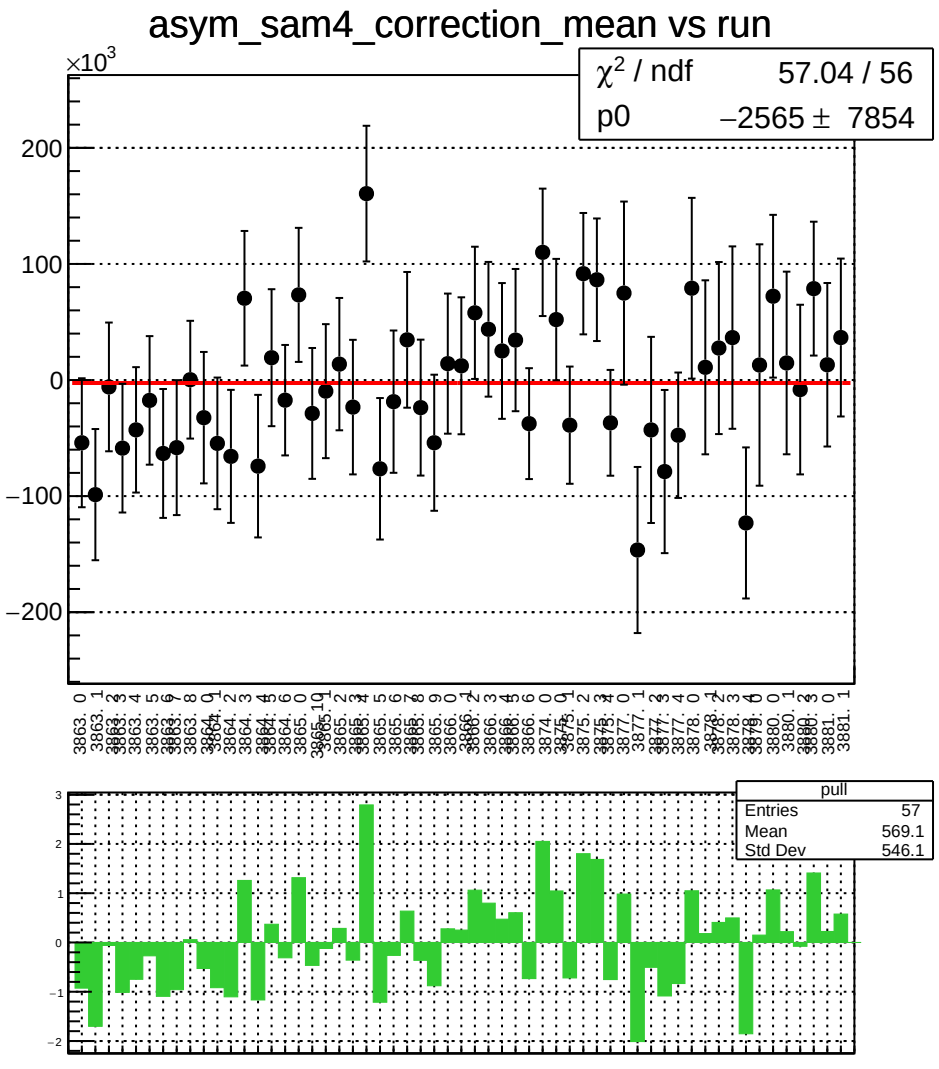

pull1D
Entries 57
Mean 0.01834
Std Dev 1.006

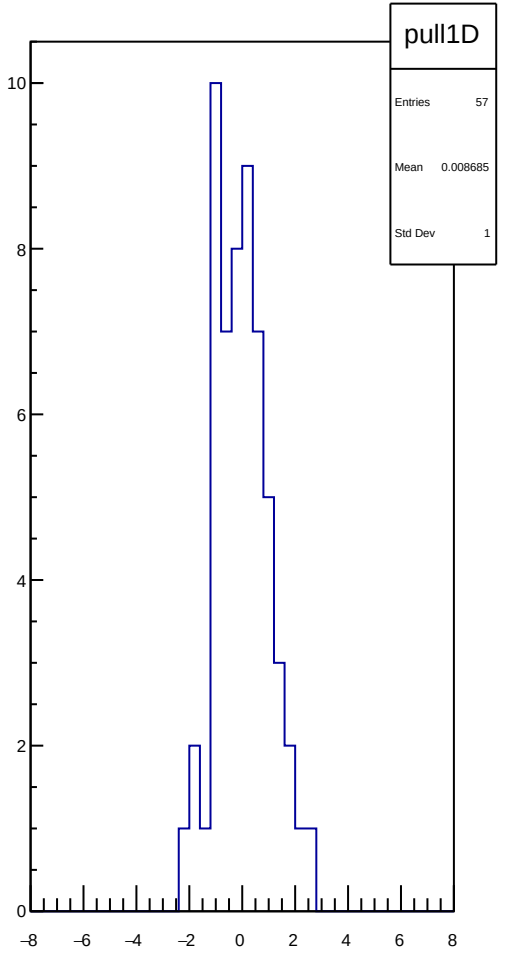

asym_sam3_correction_rms vs run
χ² / ndf 2.065e+04 / 56
p0 9710 ± 9.401
13000
12000
11000
10000
9000
8000
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

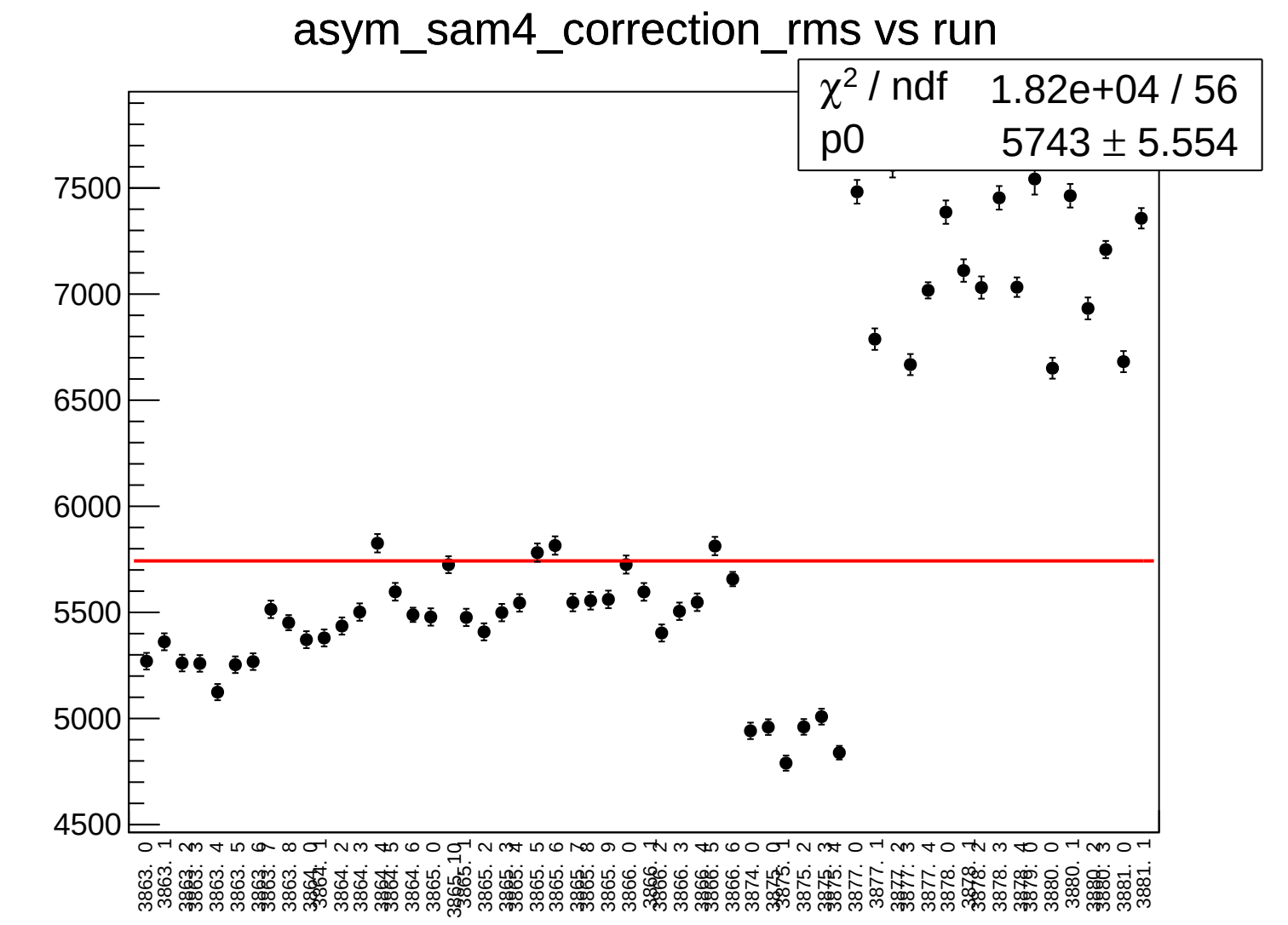

reg_asym_sam4_mean vs run
χ² / ndf 64.78 / 56
p0 2321 ± 1434
pull
Entries 57
Mean 117.7
Std Dev 95.46

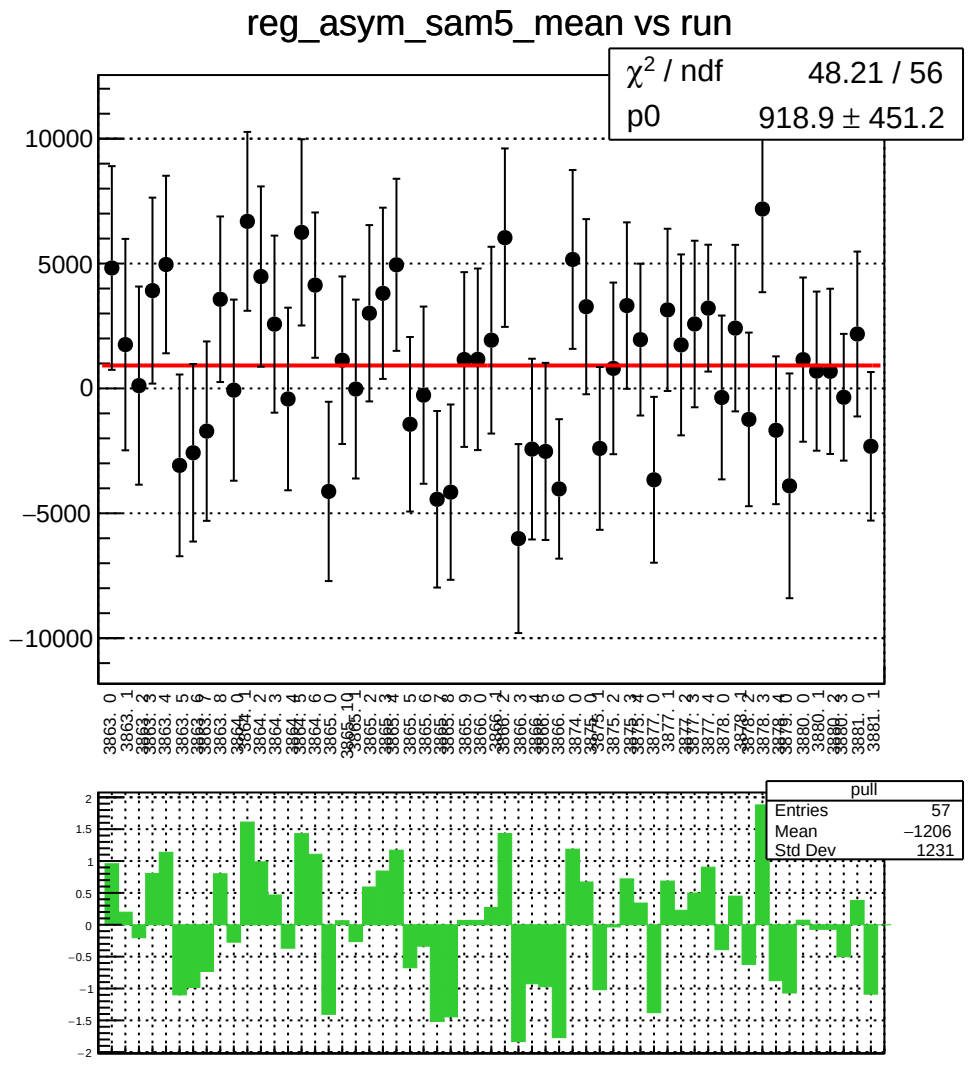

pull1D
Entries 57
Mean −0.01227
Std Dev 1.066

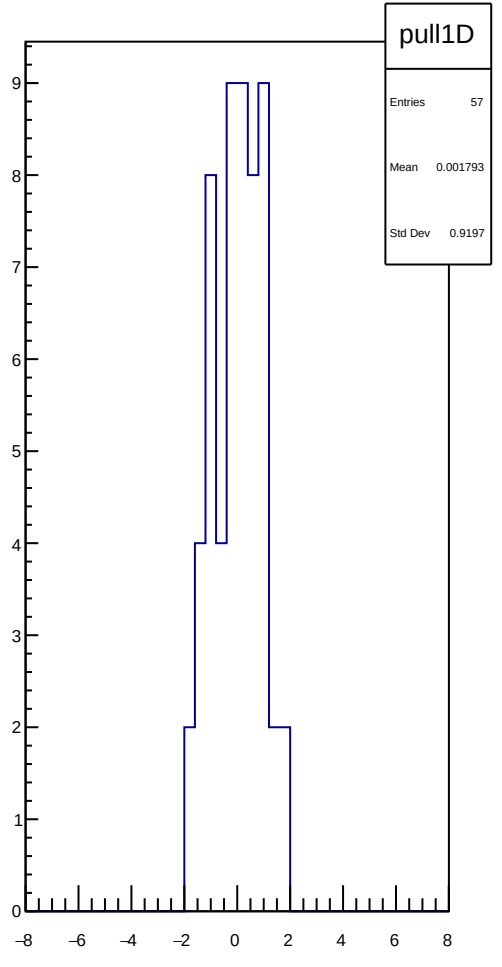

reg_asym_sam4_rms vs run
χ² / ndf 5348 / 56
p0 1055 ± 1.014
1350
1300
1250
1200
1150
1100
1050
1000
950
900

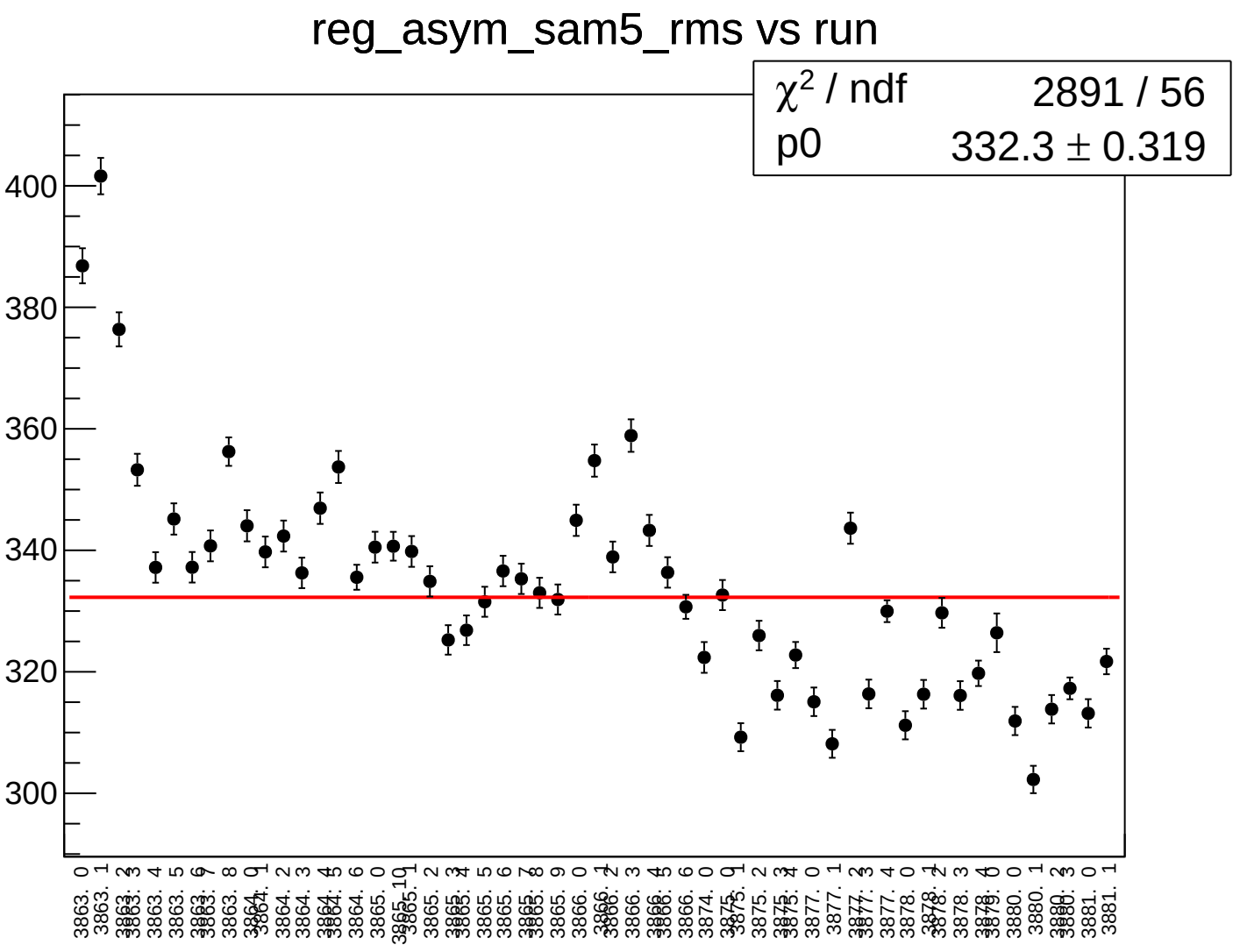

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 57.04 / 56
p0 −2565 ± 7854
200
100
0
−100
−200
pull
Entries 57
Mean 569.1
Std Dev 546.1
3
2
1
0
−1
−2

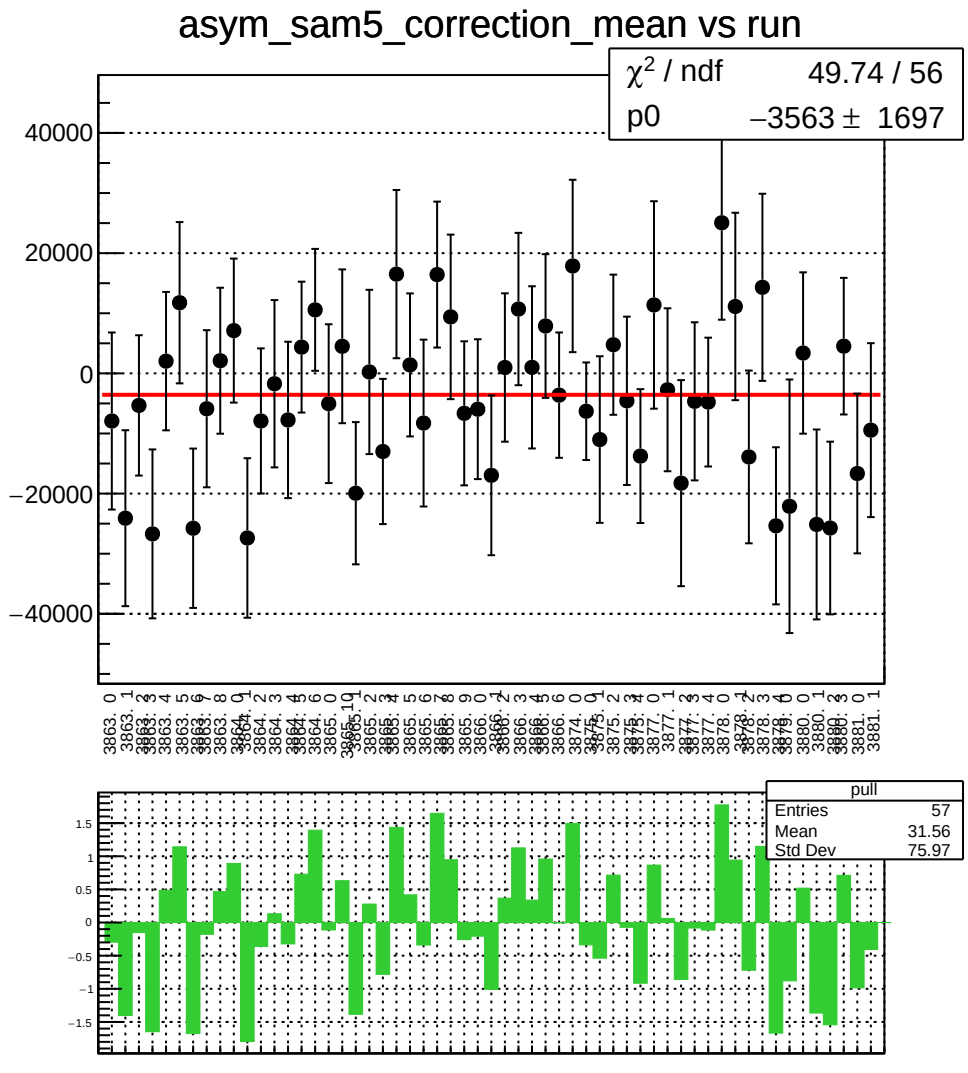

pull1D
Entries 57
Mean 0.008685
Std Dev 1
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

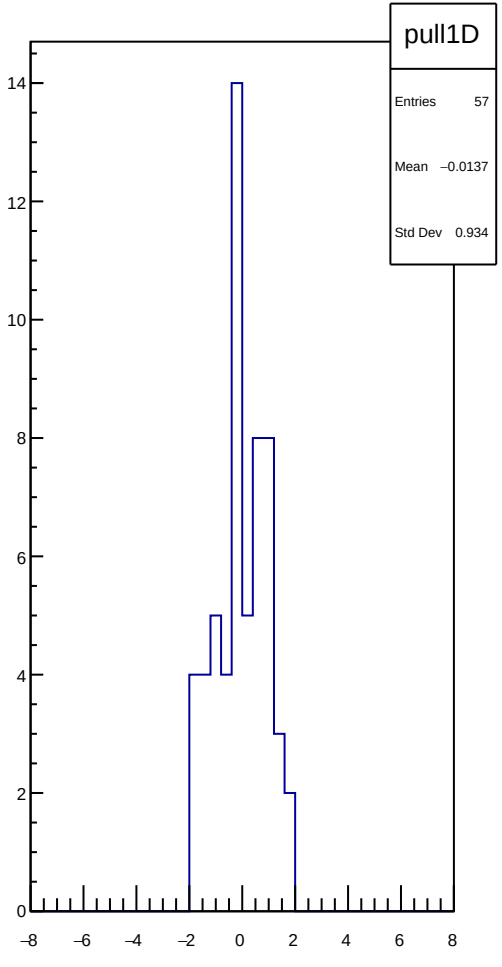

asym_sam4_correction_rms vs run
χ² / ndf 1.82e+04 / 56
p0 5743 ± 5.554
7500
7000
6500
6000
5500
5000
4500
3863. 0
3863. 1
3863. 4
3863. 5
3863. 8
3864. 2
3864. 3
3865. 0
3865. 5
3865. 6
3865. 9
3866. 0
3866. 3
3866. 6
3874. 0
3875. 2
3877. 0
3877. 1
3877. 4
3878. 0
3878. 3
3880. 0
3880. 1
3881. 0
3881. 1

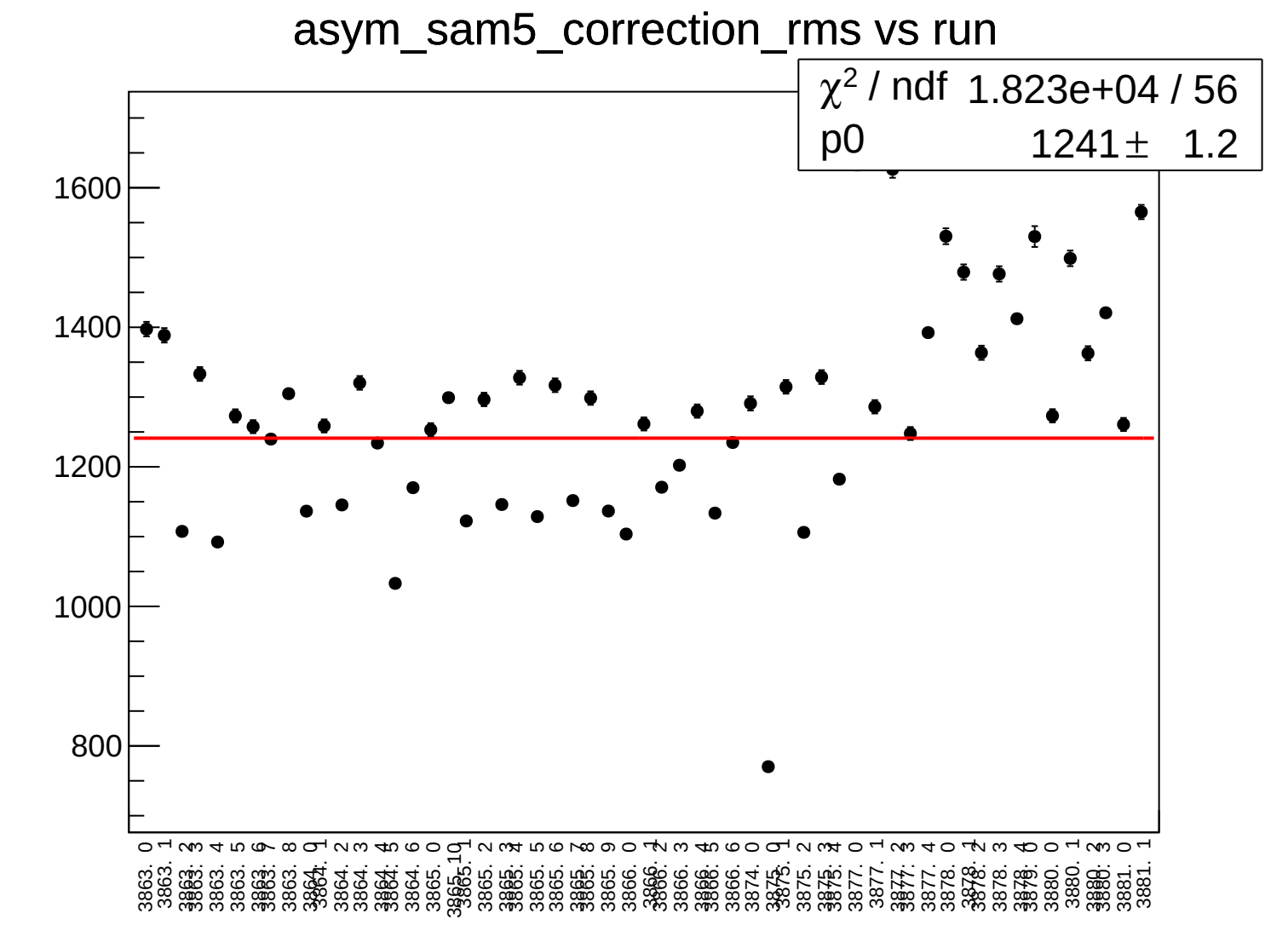

reg_asym_sam5_mean vs run
χ² / ndf 48.21 / 56
p0 918.9 ± 451.2
10000
5000
0
−5000
−10000
pull
Entries 57
Mean −1206
Std Dev 1231
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

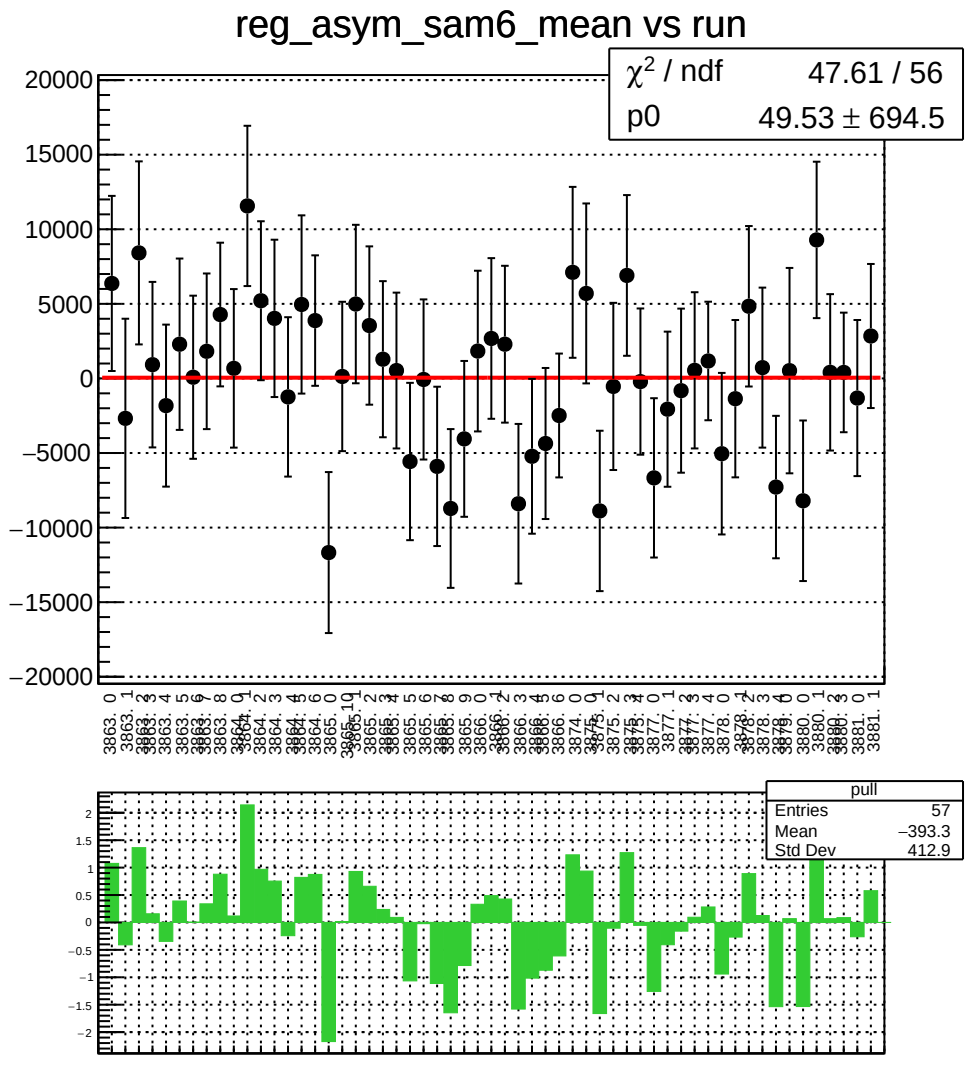

pull1D
Entries 57
Mean 0.001793
Std Dev 0.9197
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

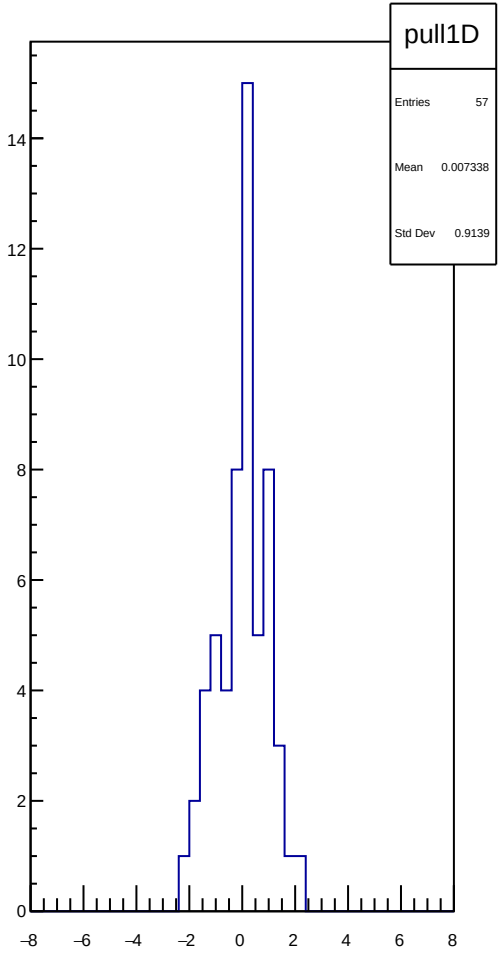

reg_asym_sam5_rms vs run
χ² / ndf 2891 / 56
p0 332.3 ± 0.319
400
380
360
340
320
300

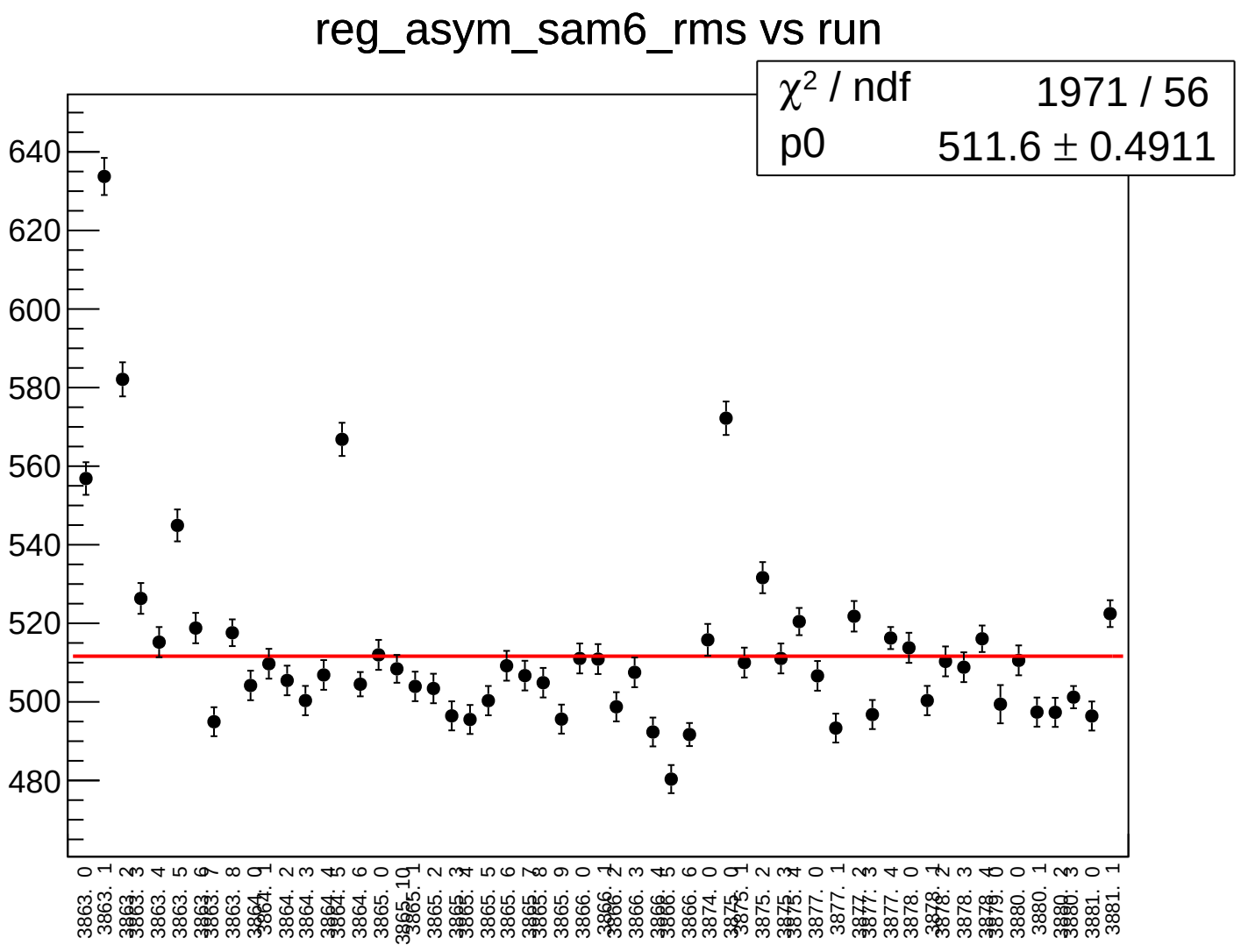

asym_sam5_correction_mean vs run
χ² / ndf 49.74 / 56
p0 −3563 ± 1697
40000
20000
0
−20000
−40000
pull
Entries 57
Mean 31.56
Std Dev 75.97
1.5
1
0.5
0
−0.5
−1
−1.5

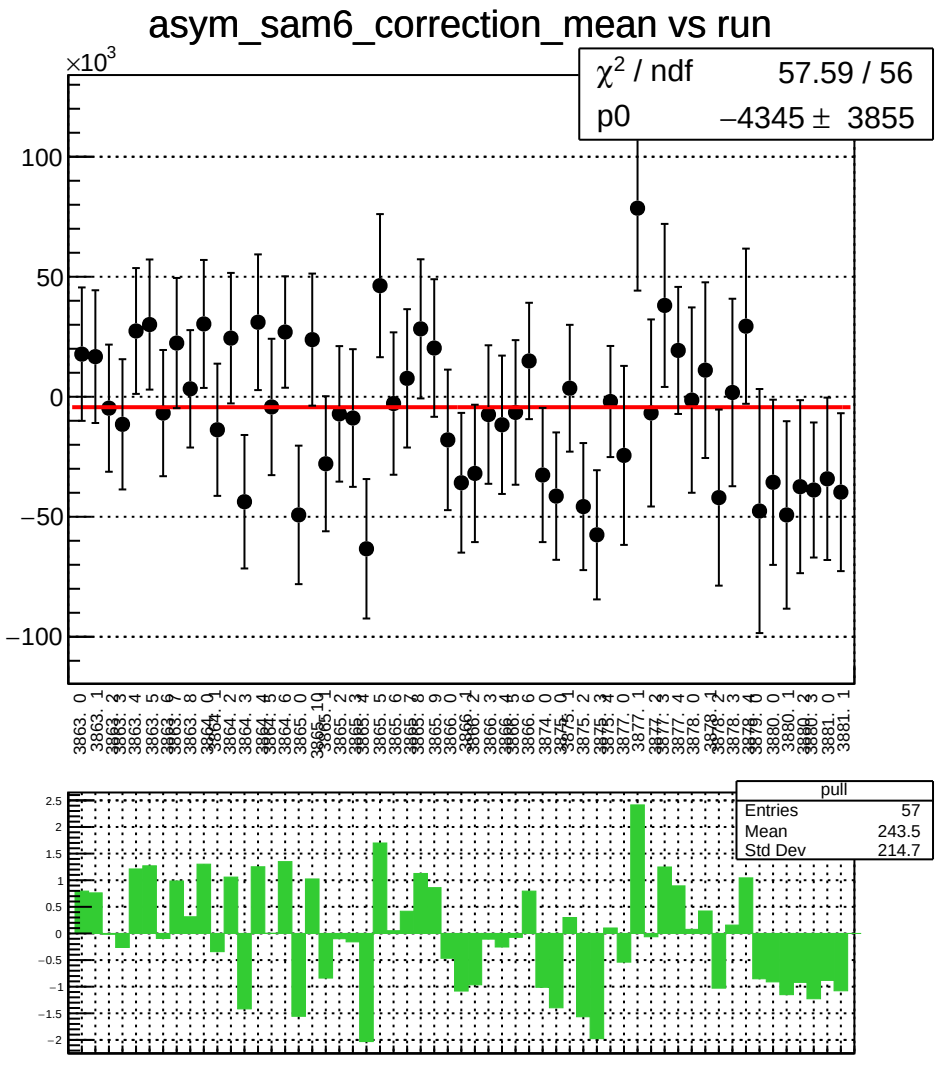

pull1D
Entries 57
Mean −0.0137
Std Dev 0.934
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

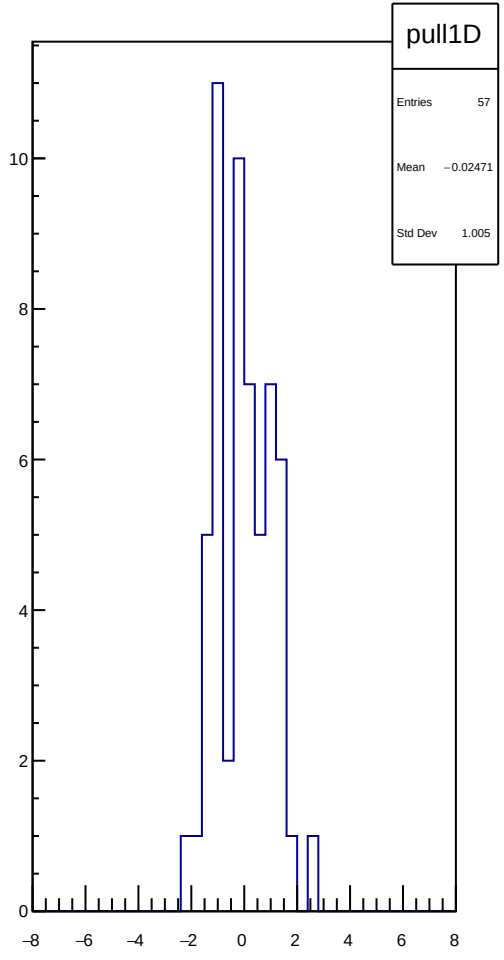

asym_sam5_correction_rms vs run
χ² / ndf 1.823e+04 / 56
p0 1241 ± 1.2
1600
1400
1200
1000
800
3863. 0
3863. 1
3863. 4
3863. 5
3863. 8
3865. 0
3865. 2
3865. 5
3865. 6
3865. 9
3866. 0
3866. 3
3866. 6
3874. 0
3875. 2
3877. 1
3877. 4
3878. 0
3878. 3
3880. 0
3880. 1
3881. 0
3881. 1

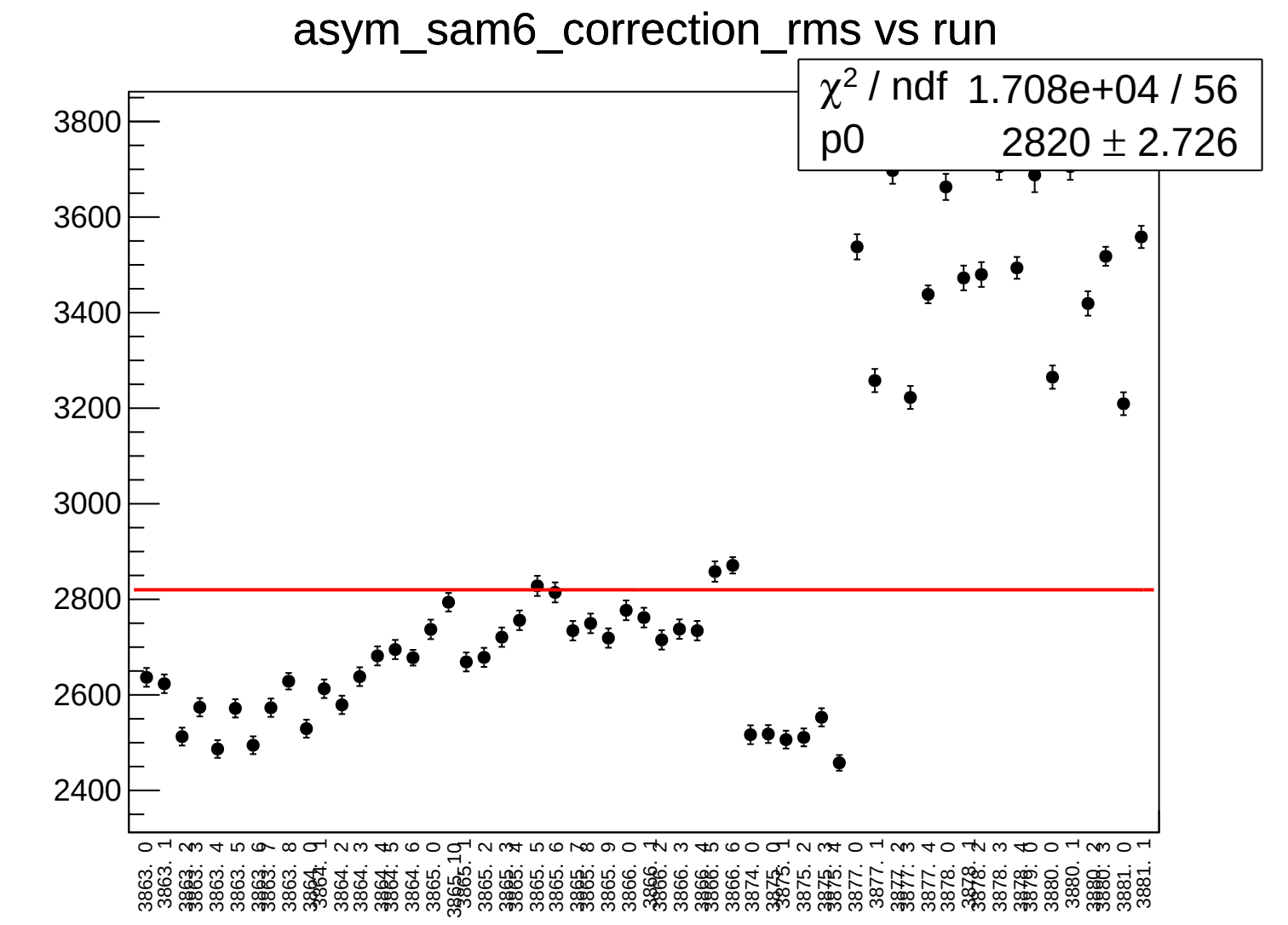

reg_asym_sam6_mean vs run
χ² / ndf 47.61 / 56
p0 49.53 ± 694.5
pull
Entries 57
Mean −393.3
Std Dev 412.9

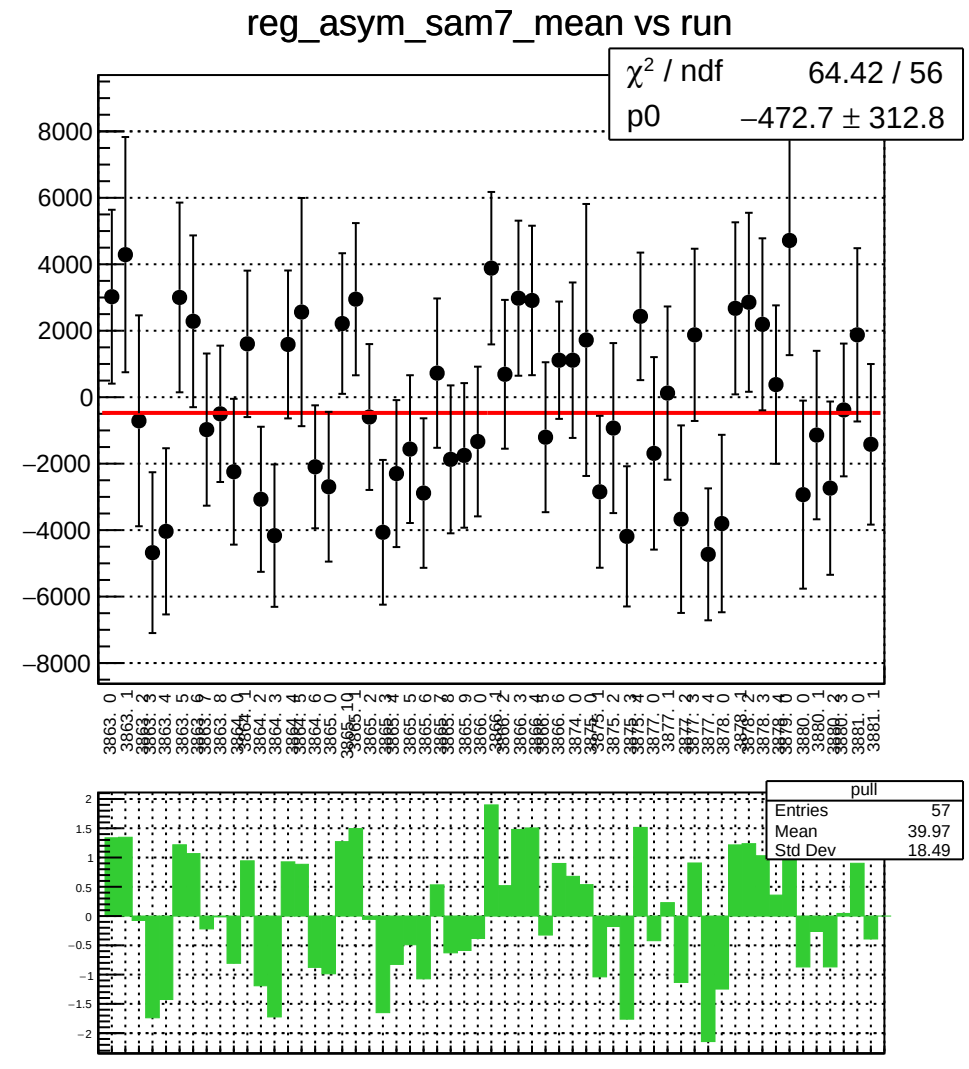

pull1D
Entries 57
Mean 0.007338
Std Dev 0.9139

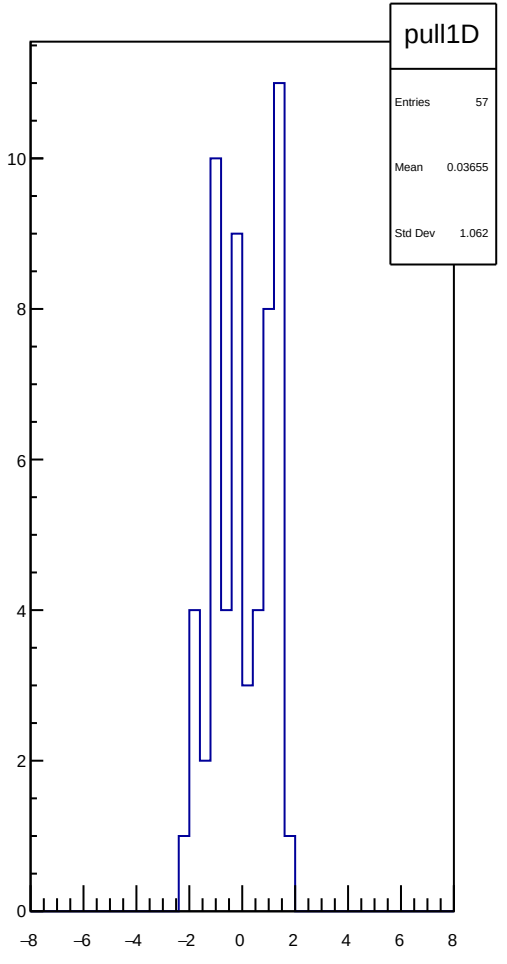

reg_asym_sam6_rms vs run
χ² / ndf 1971 / 56
p0 511.6 ± 0.4911
640
620
600
580
560
540
520
500
480

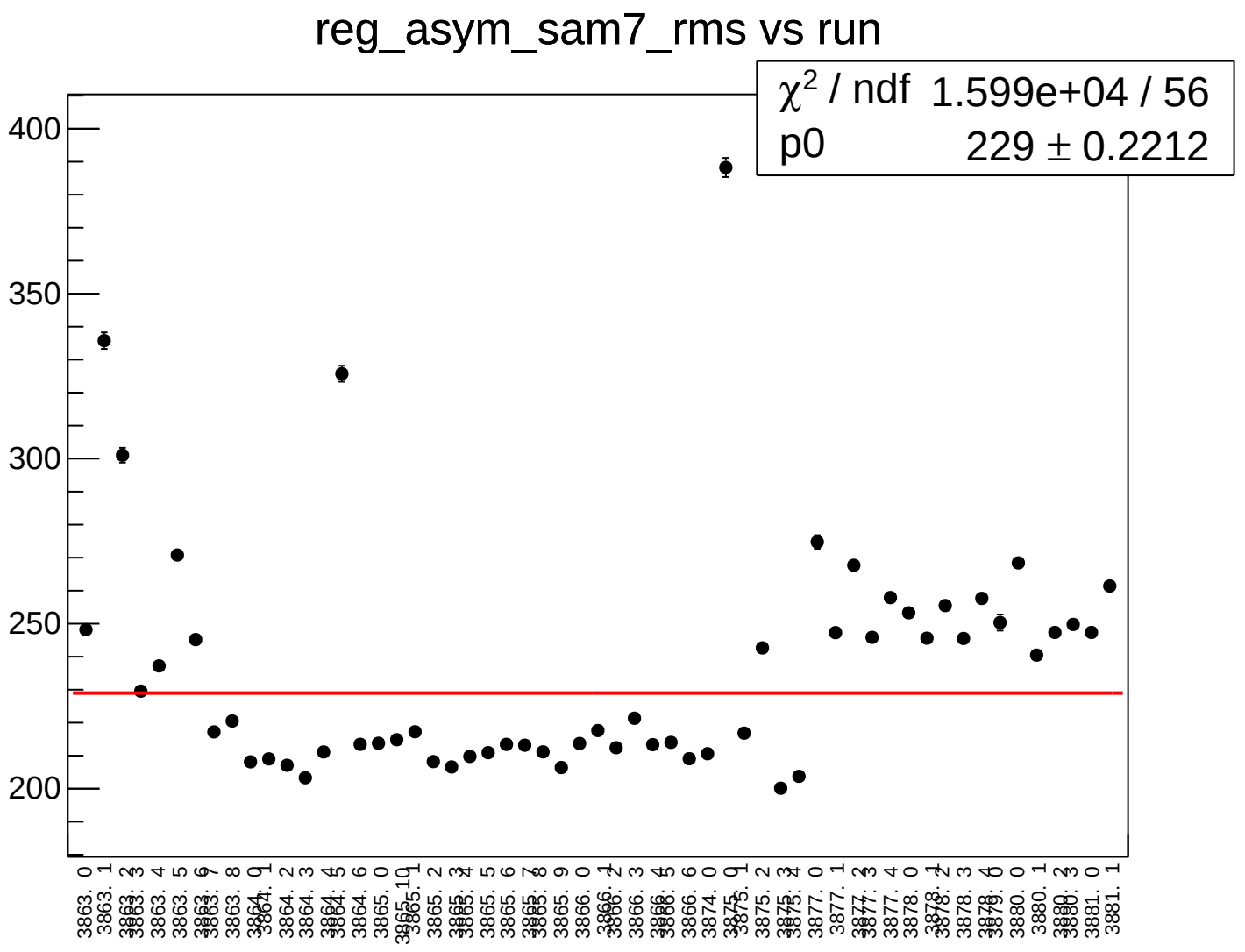

asym_sam6_correction_mean vs run
×10^3
χ^2 / ndf 57.59 / 56
p0 −4345 ± 3855
100
50
0
−50
−100
pull
Entries 57
Mean 243.5
Std Dev 214.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

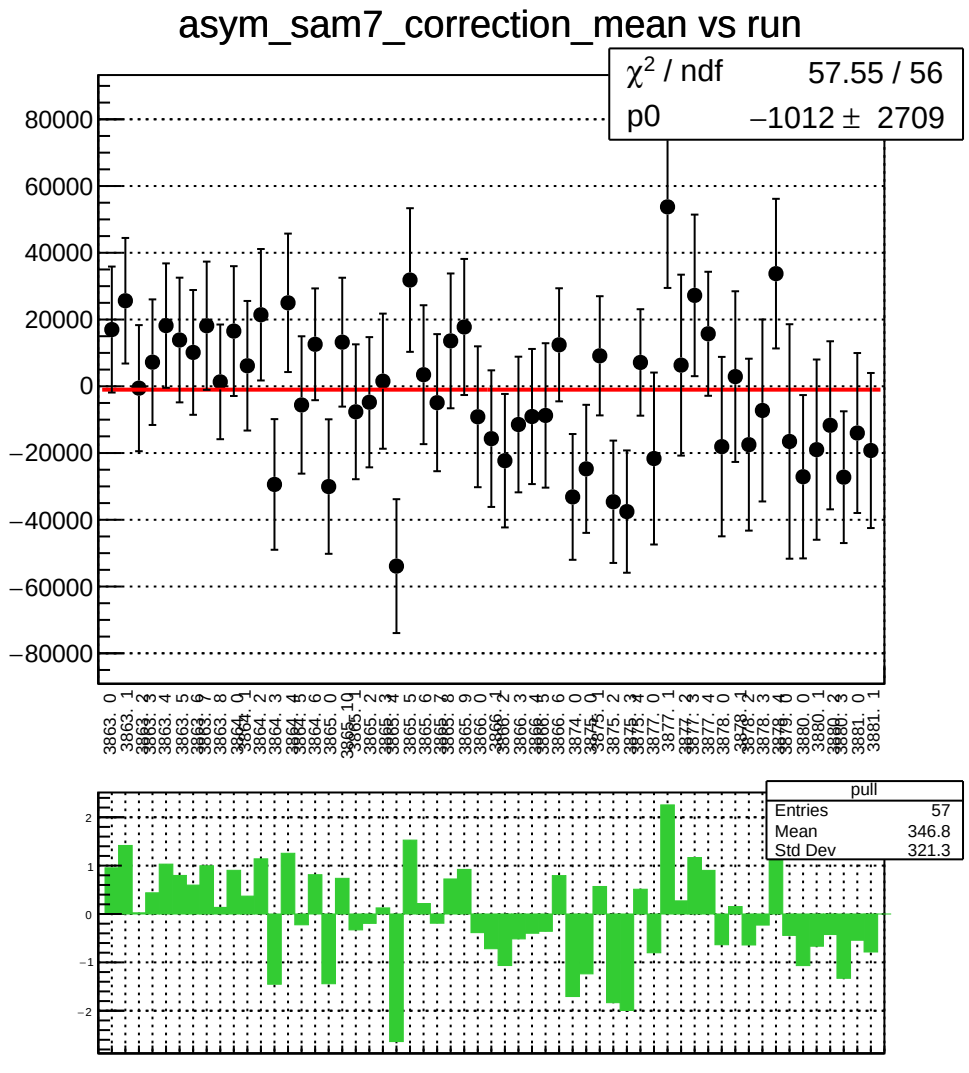

pull1D
Entries 57
Mean −0.02471
Std Dev 1.005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

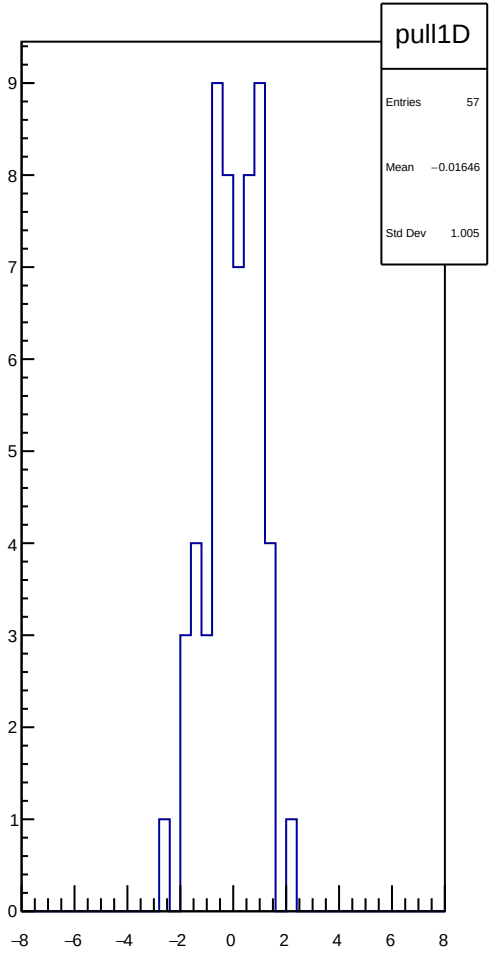

asym_sam6_correction_rms vs run
χ² / ndf 1.708e+04 / 56
p0 2820 ± 2.726
3800
3600
3400
3200
3000
2800
2600
2400

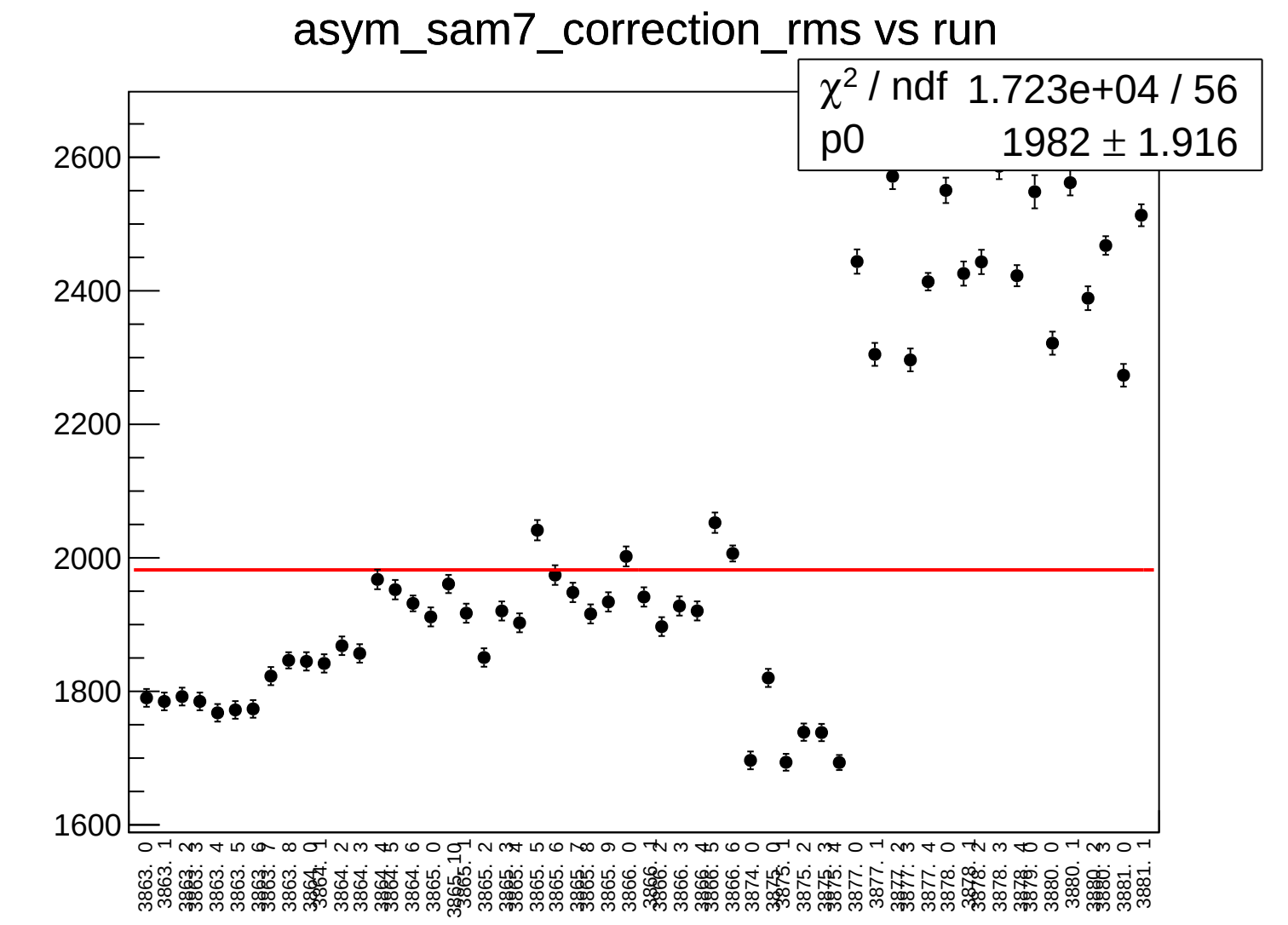

reg_asym_sam7_mean vs run
χ² / ndf 64.42 / 56
p0 −472.7 ± 312.8
pull
Entries 57
Mean 39.97
Std Dev 18.49

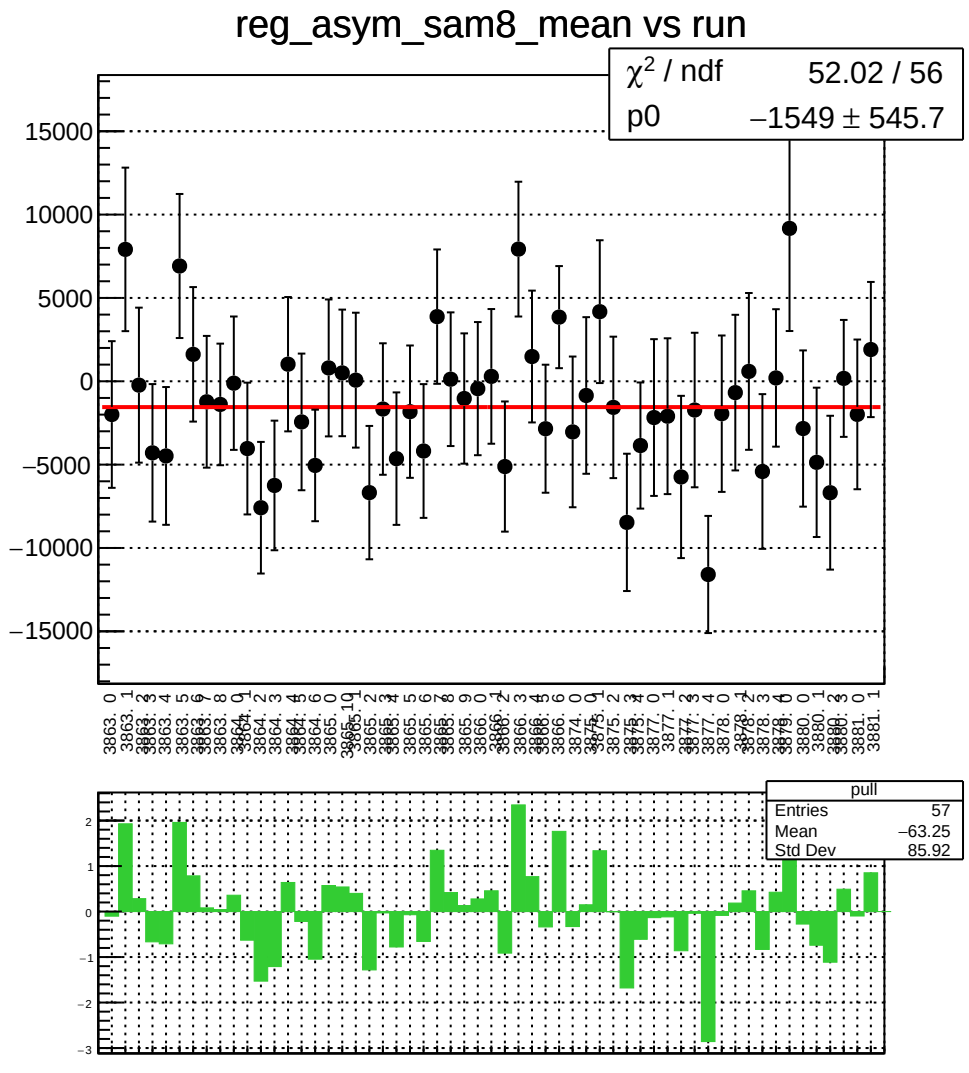

pull1D
Entries 57
Mean 0.03655
Std Dev 1.062

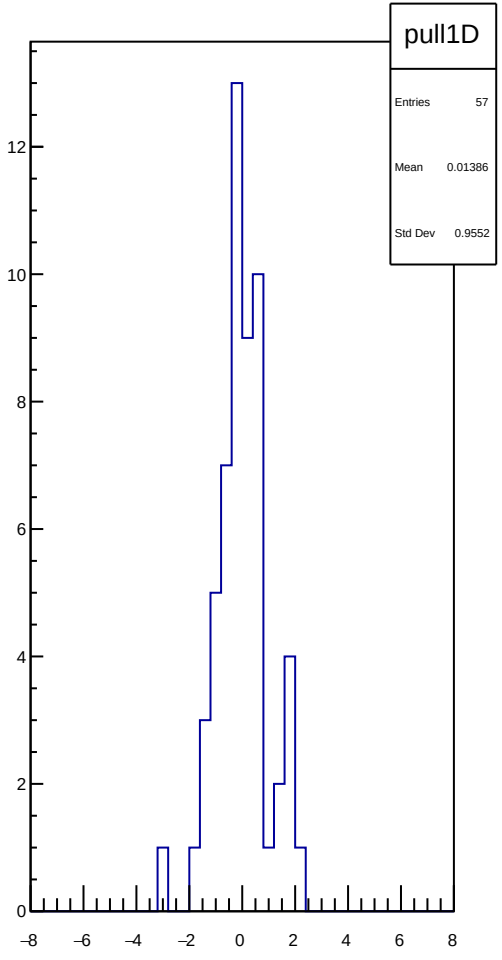

reg_asym_sam7_rms vs run
χ² / ndf 1.599e+04 / 56
p0 229 ± 0.2212
400
350
300
250
200
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

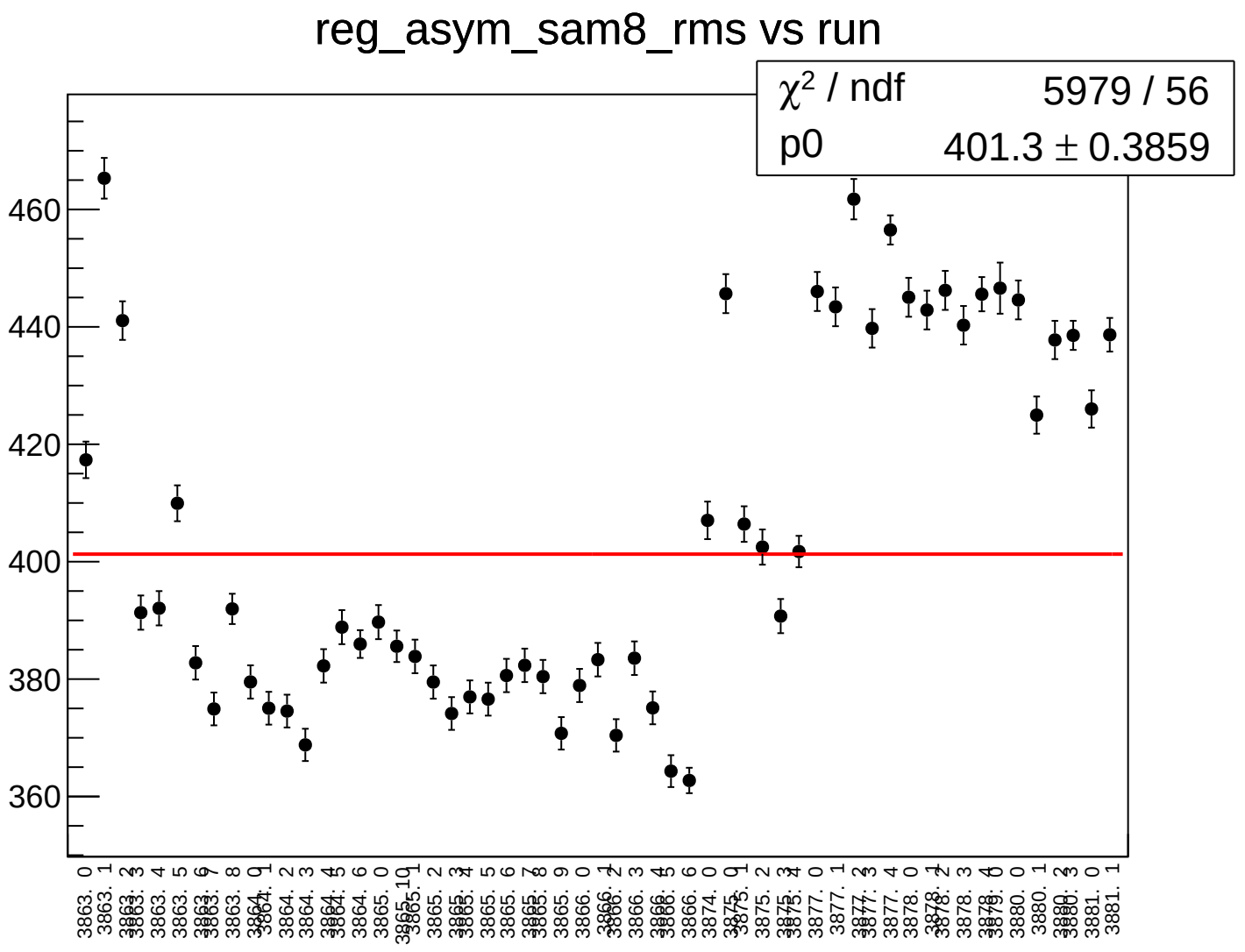

asym_sam7_correction_mean vs run
χ² / ndf 57.55 / 56
p0 −1012 ± 2709
pull
Entries 57
Mean 346.8
Std Dev 321.3

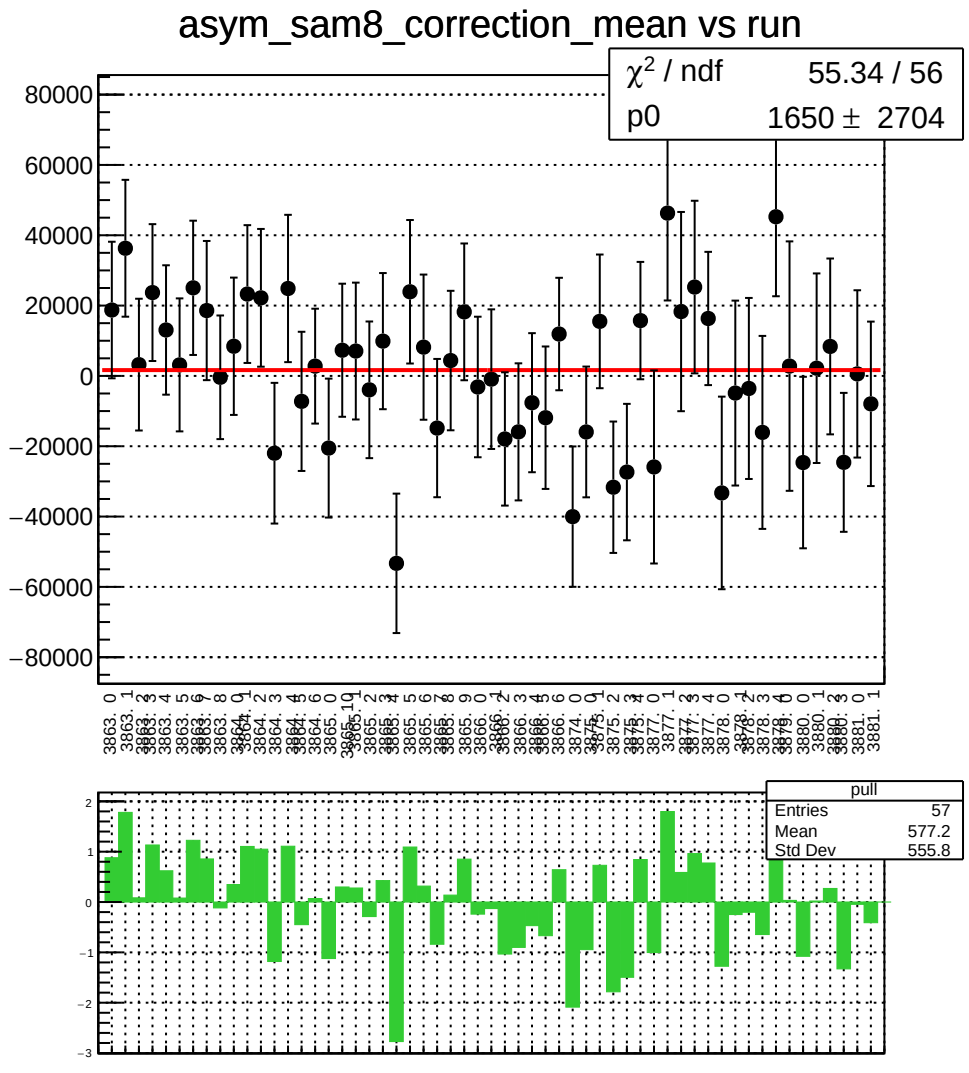

pull1D
Entries 57
Mean −0.01646
Std Dev 1.005

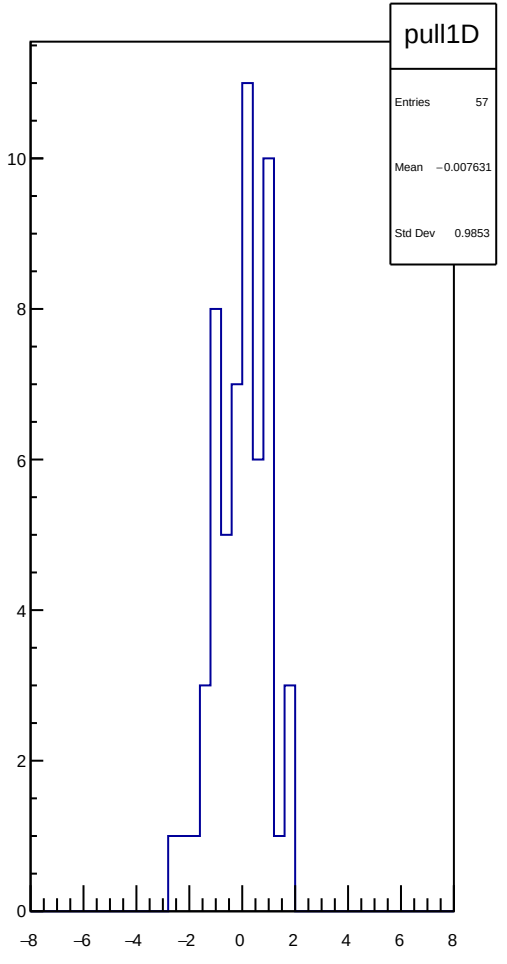

asym_sam7_correction_rms vs run
χ² / ndf 1.723e+04 / 56
p0 1982 ± 1.916
2600
2400
2200
2000
1800
1600

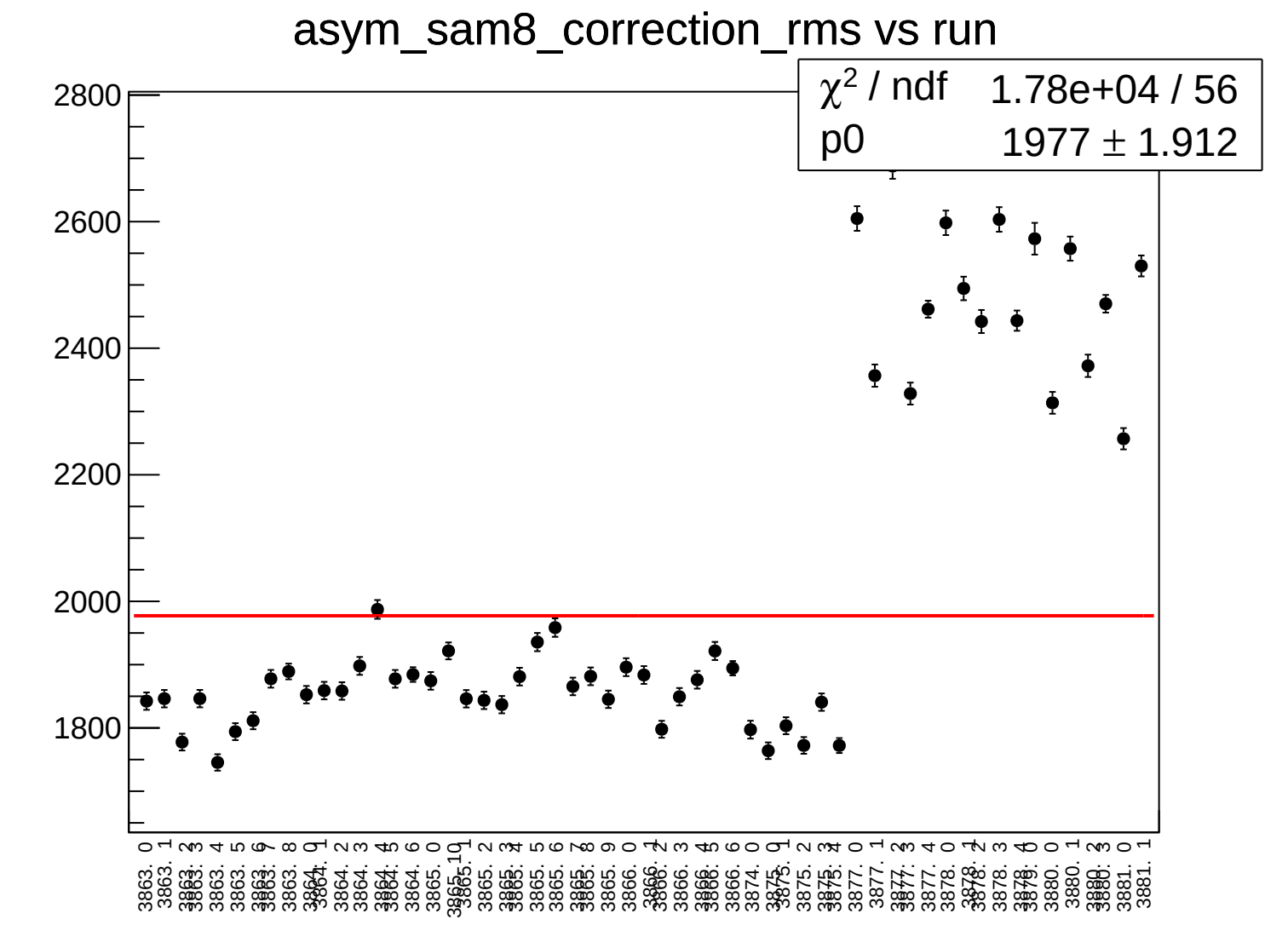

reg_asym_sam8_mean vs run
χ² / ndf 52.02 / 56
p0 −1549 ± 545.7
pull
Entries 57
Mean −63.25
Std Dev 85.92

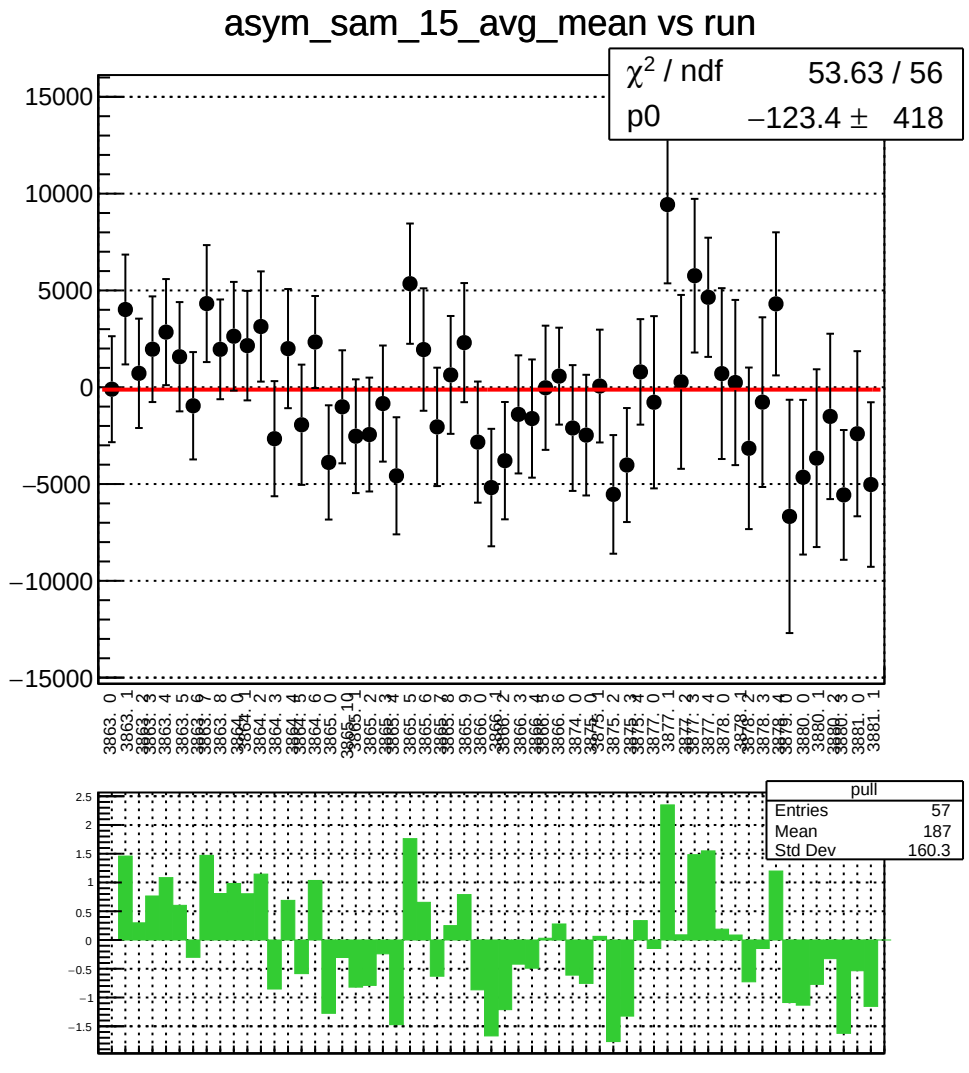

pull1D
Entries 57
Mean 0.01386
Std Dev 0.9552

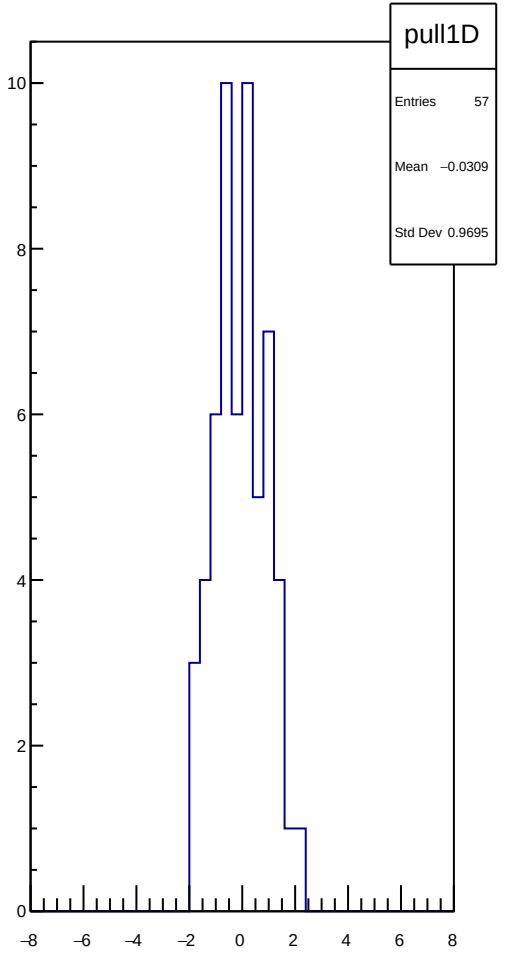

reg_asym_sam8_rms vs run
χ² / ndf 5979 / 56
p0 401.3 ± 0.3859
460
440
420
400
380
360
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

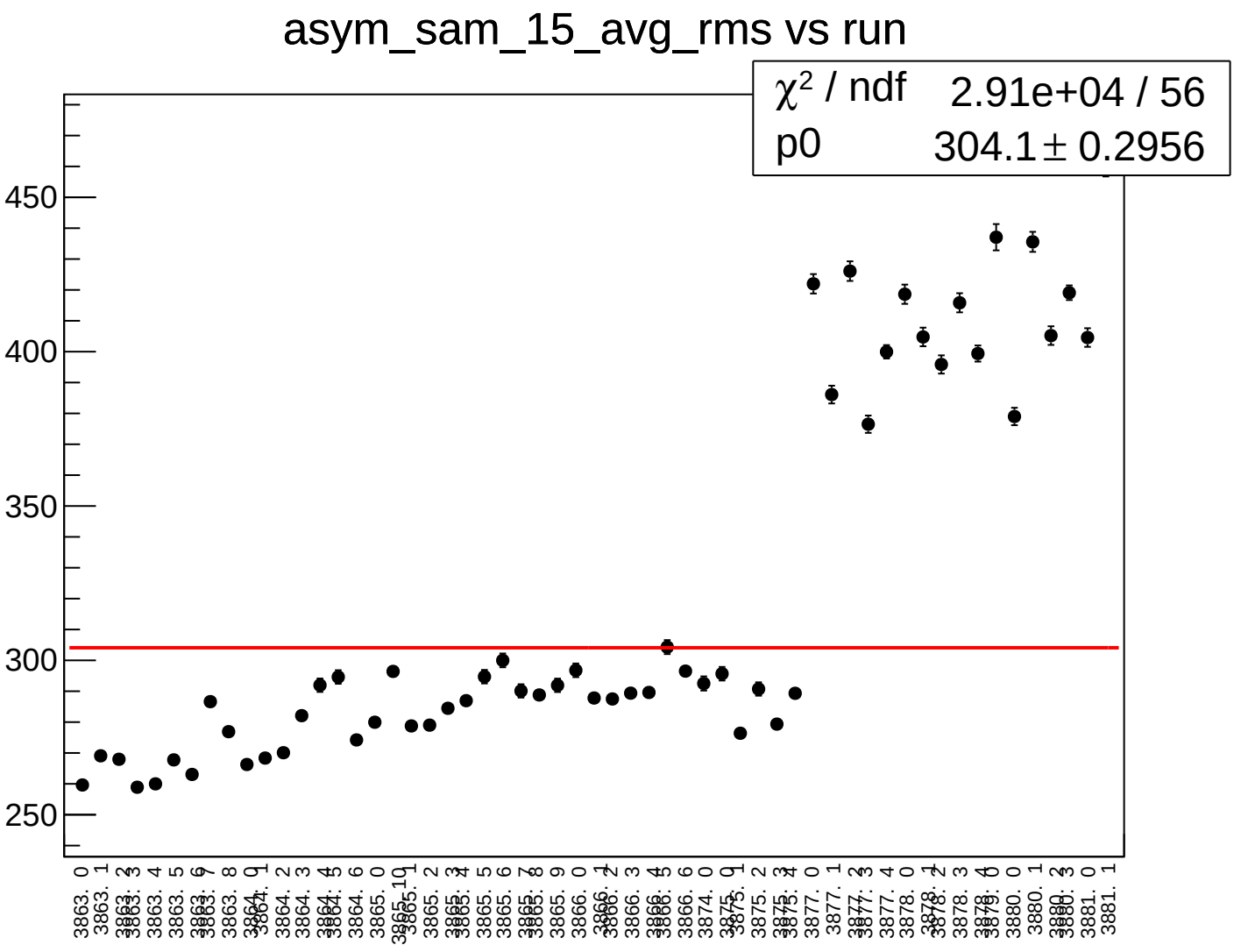

asym_sam8_correction_mean vs run
χ² / ndf 55.34 / 56
p0 1650 ± 2704
pull
Entries 57
Mean 577.2
Std Dev 555.8

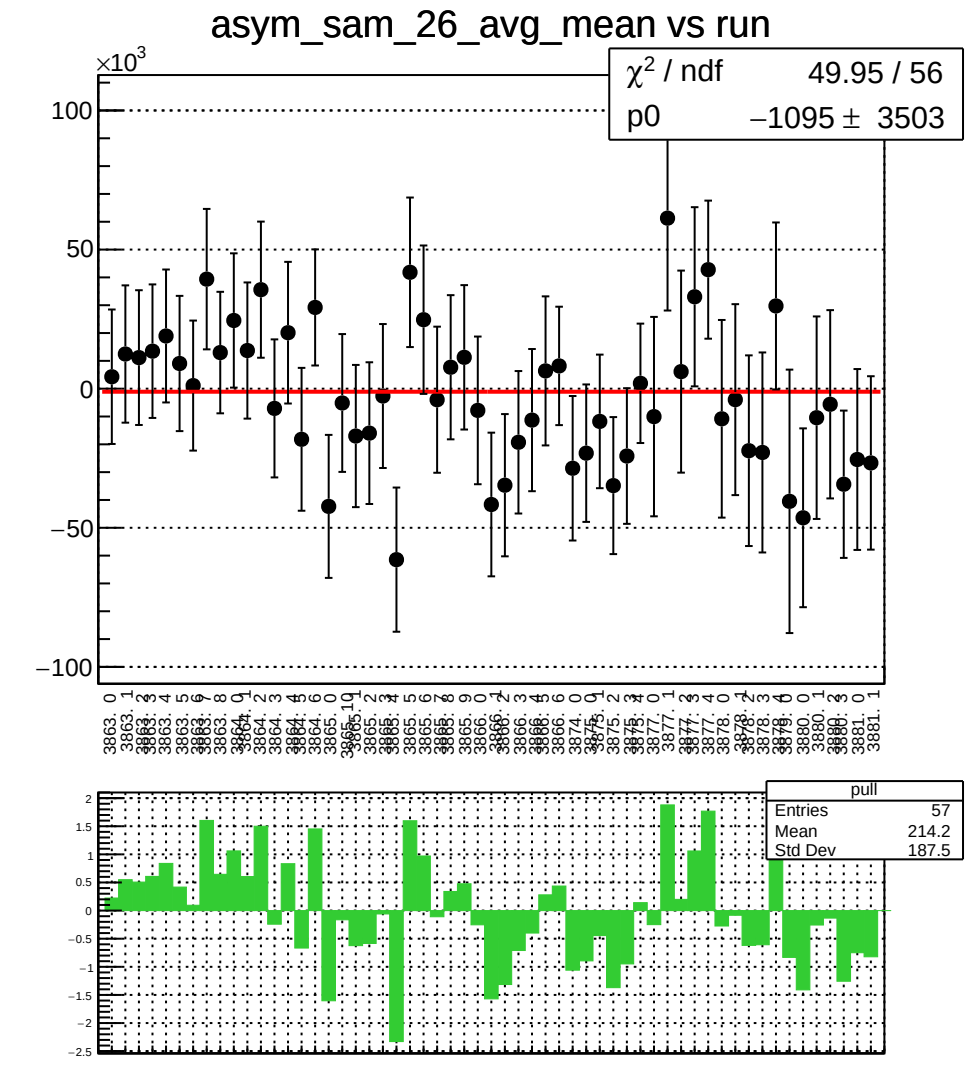

pull1D
Entries 57
Mean −0.007631
Std Dev 0.9853

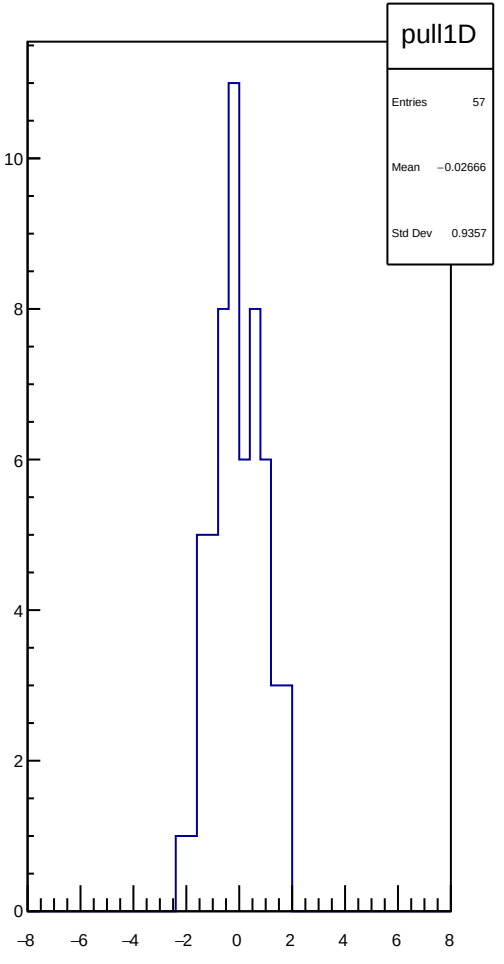

asym_sam8_correction_rms vs run
χ² / ndf 1.78e+04 / 56
p0 1977 ± 1.912
2800
2600
2400
2200
2000
1800

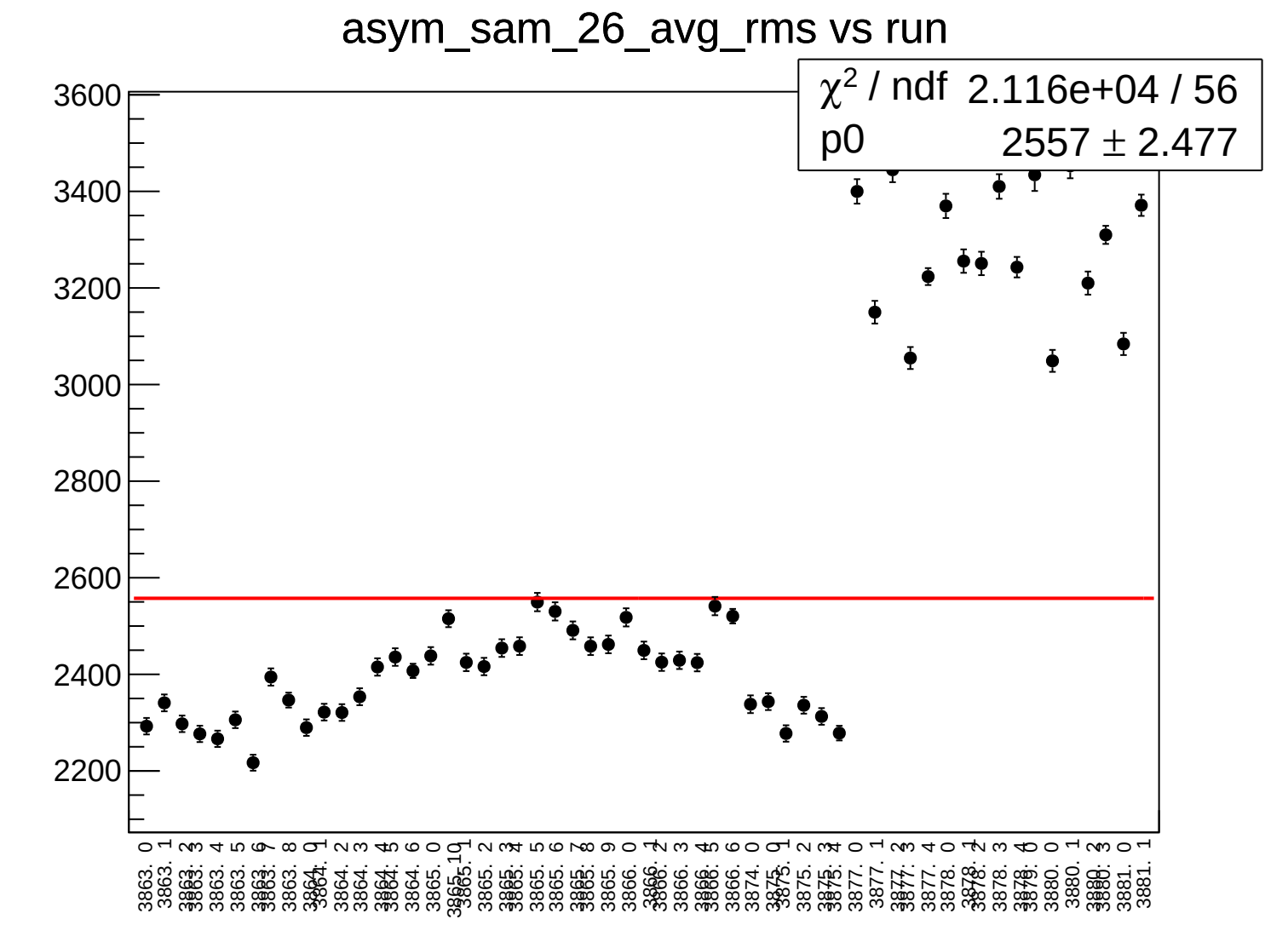

asym_sam_15_avg_mean vs run
χ² / ndf 53.63 / 56
p0 −123.4 ± 418
pull
Entries 57
Mean 187
Std Dev 160.3

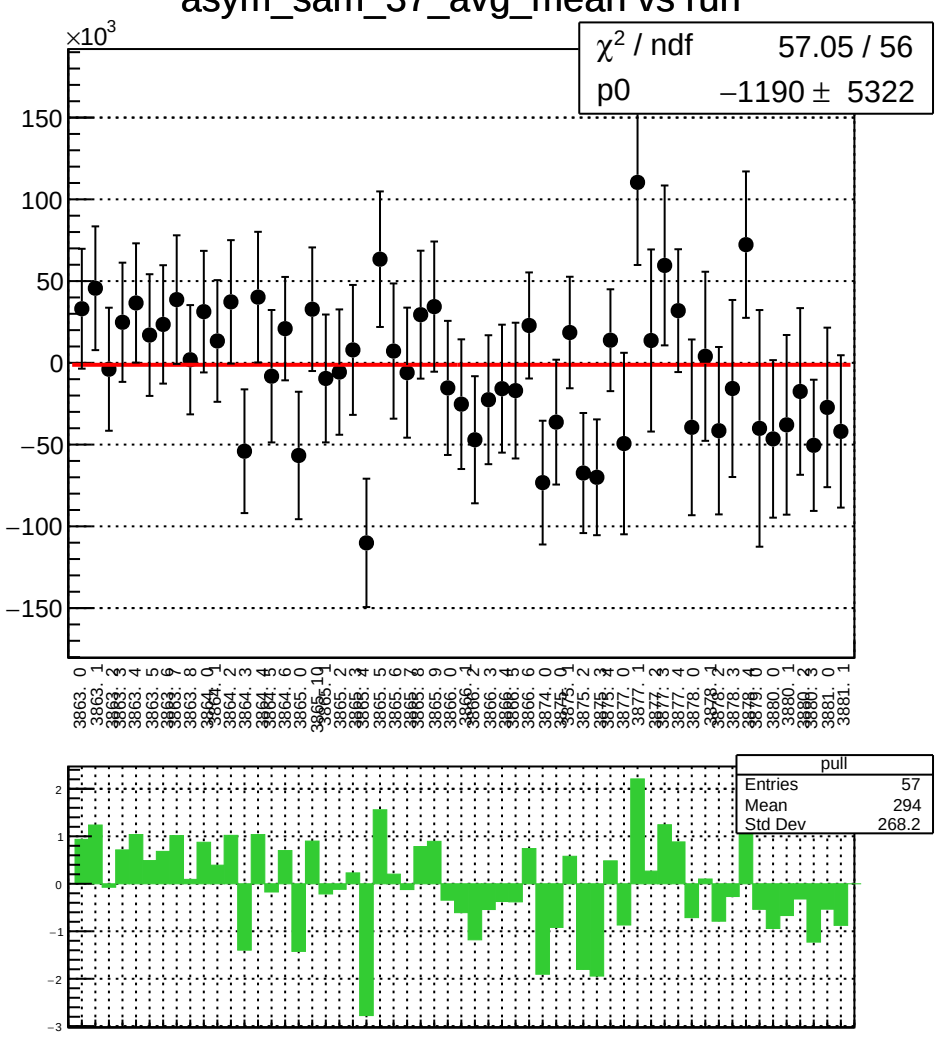

pull1D
Entries 57
Mean −0.0309
Std Dev 0.9695

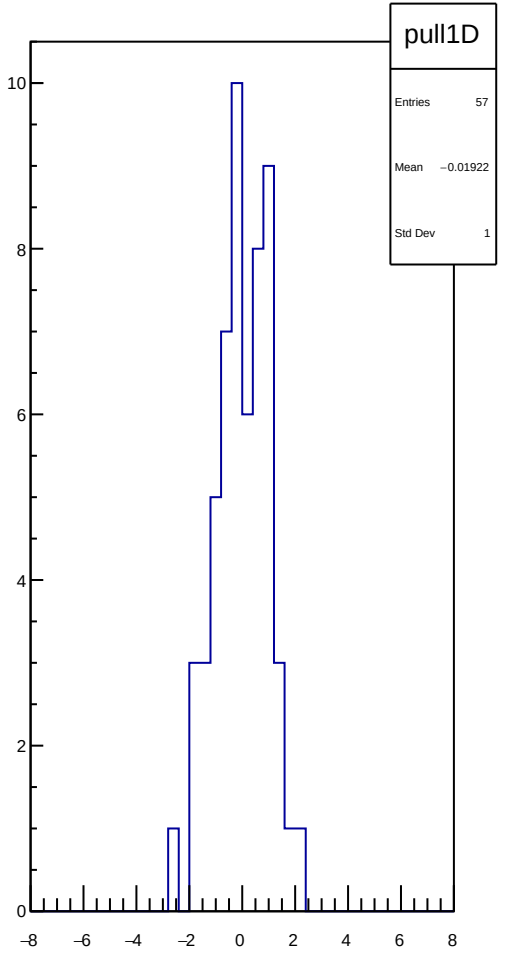

asym_sam_15_avg_rms vs run
χ² / ndf 2.91e+04 / 56
p0 304.1 ± 0.2956
450
400
350
300
250

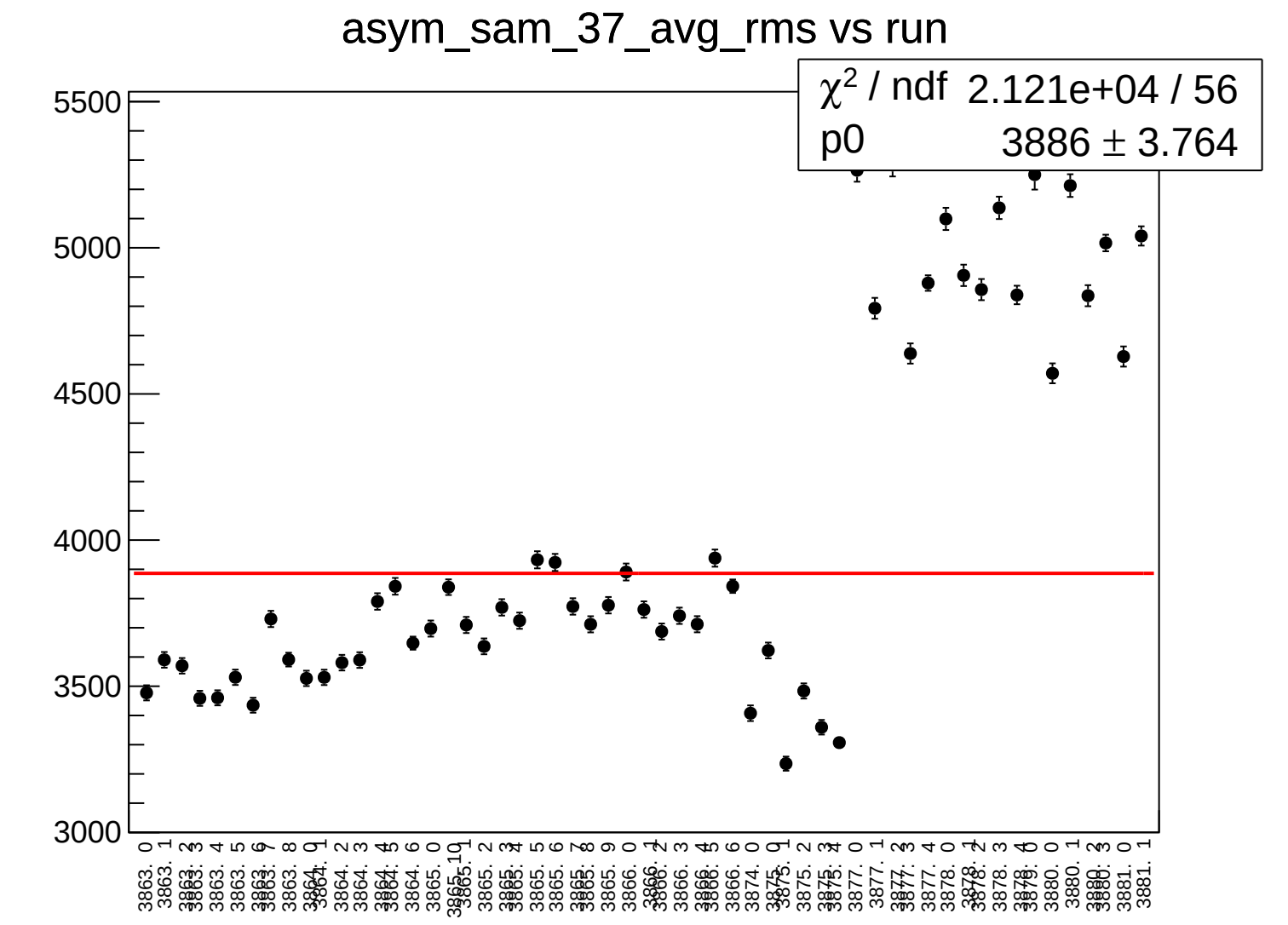

asym_sam_26_avg_mean vs run
×10^3
χ² / ndf 49.95 / 56
p0 −1095 ± 3503
100
50
0
−50
−100
pull
Entries 57
Mean 214.2
Std Dev 187.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

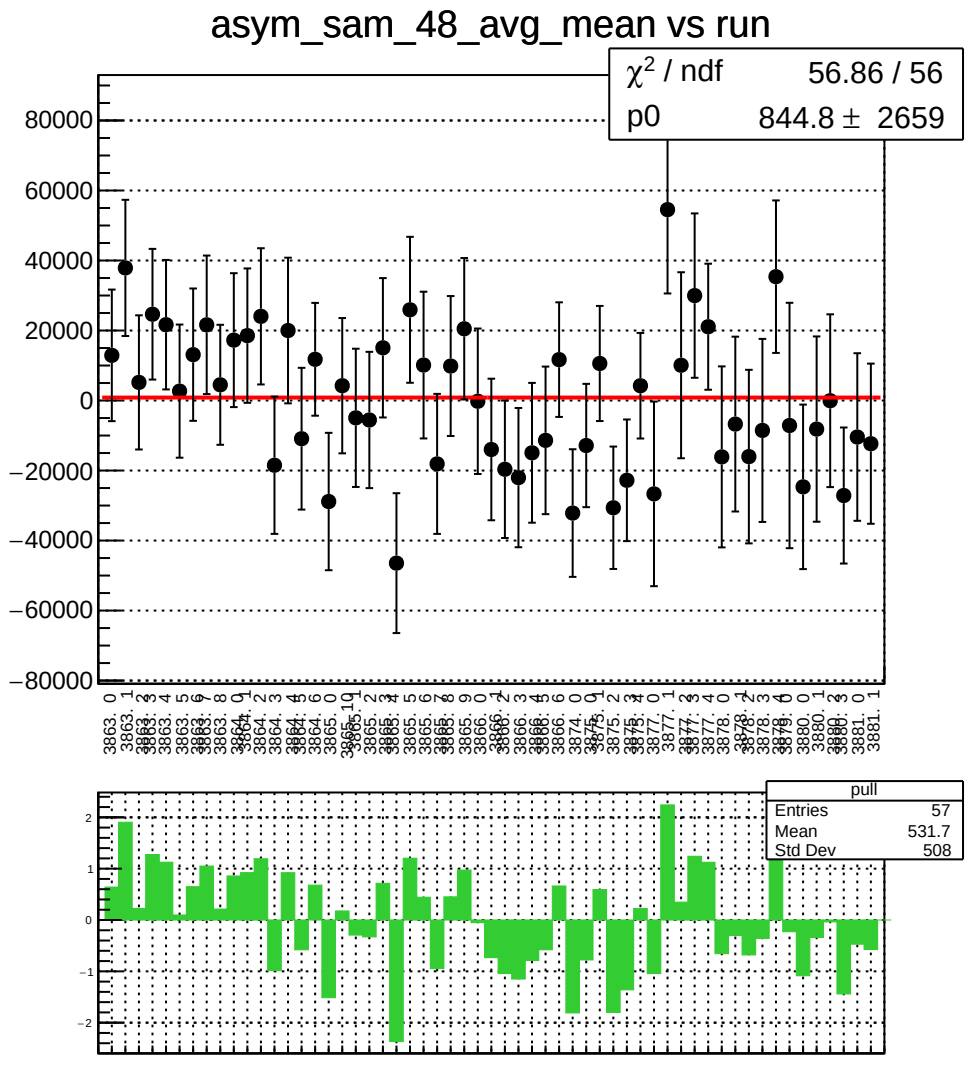

pull1D
Entries 57
Mean −0.02666
Std Dev 0.9357
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

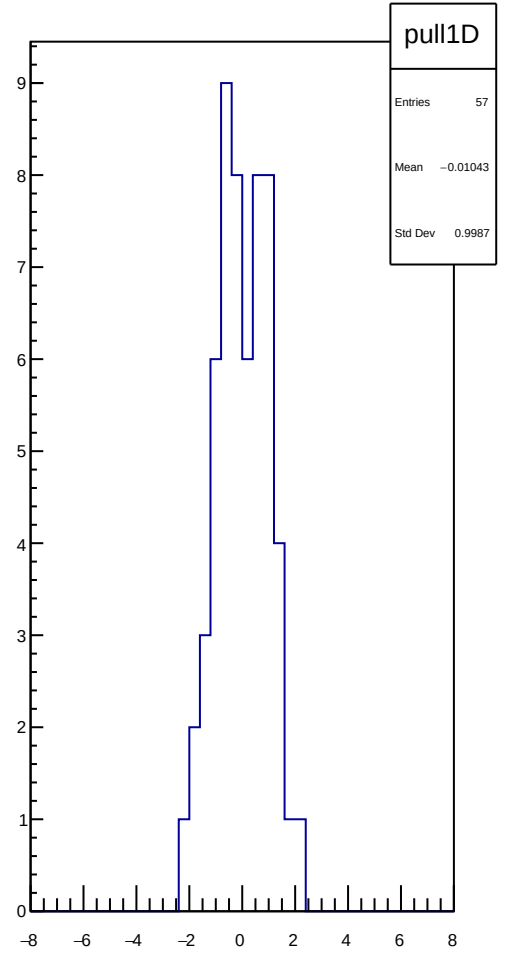

asym_sam_26_avg_rms vs run
χ² / ndf 2.116e+04 / 56
p0 2557 ± 2.477
3600
3400
3200
3000
2800
2600
2400
2200

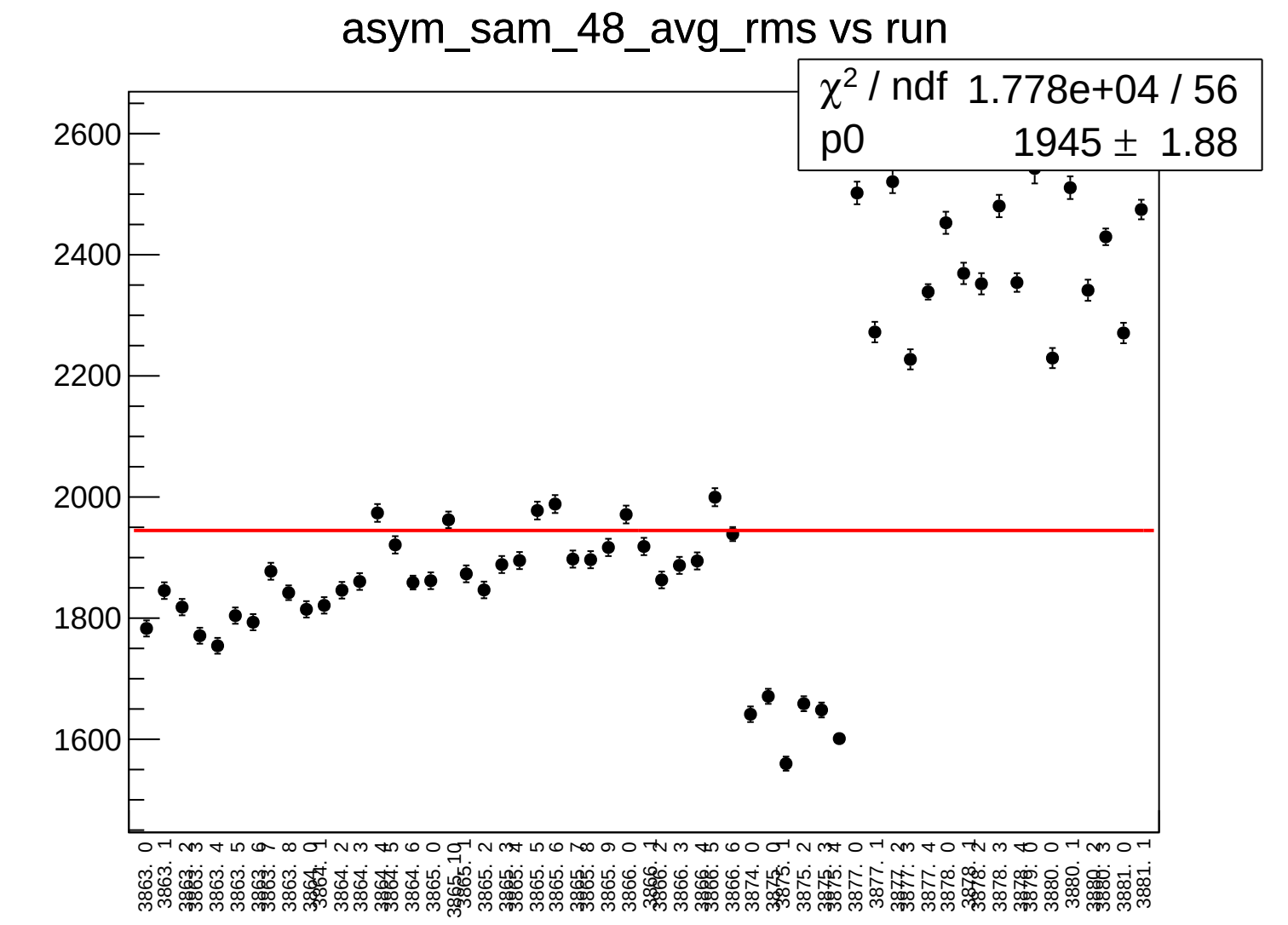

asym_sam_37_avg_mean vs run
χ^2 / ndf 57.05 / 56
p0 −1190 ± 5322
×10^3
150
100
50
0
−50
−100
−150
pull
Entries 57
Mean 294
Std Dev 268.2
2
1
0
−1
−2
−3

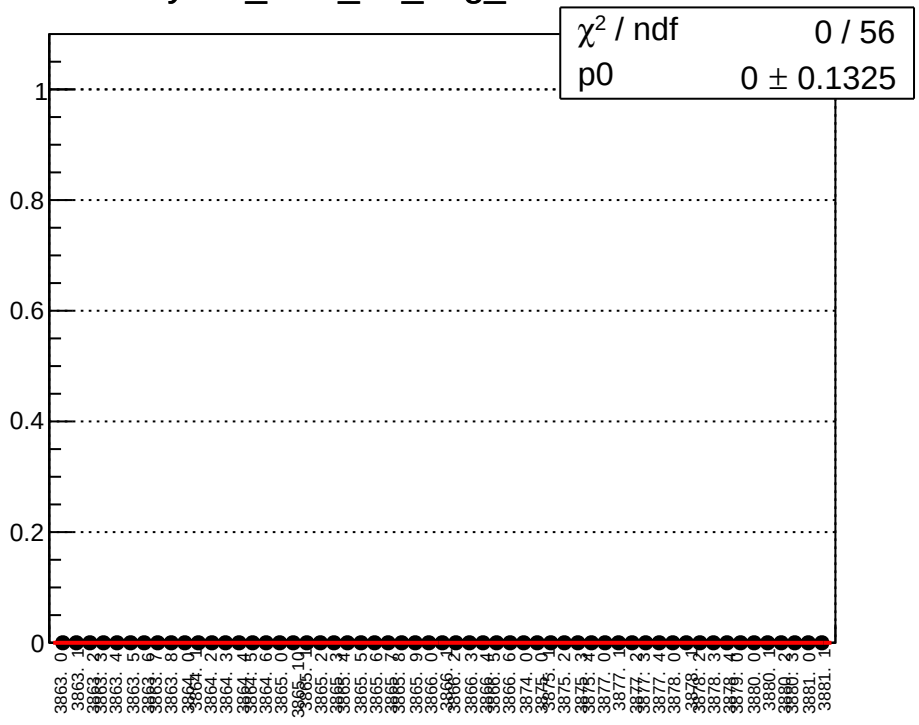

pull1D
Entries 57
Mean −0.01922
Std Dev 1
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

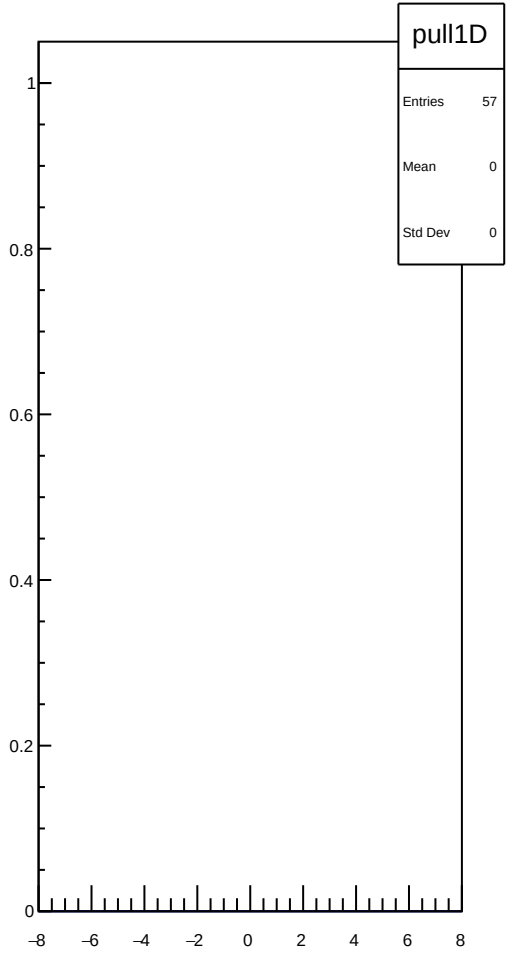

asym_sam_37_avg_rms vs run
χ^2 / ndf 2.121e+04 / 56
p0 3886 ± 3.764
5500
5000
4500
4000
3500
3000

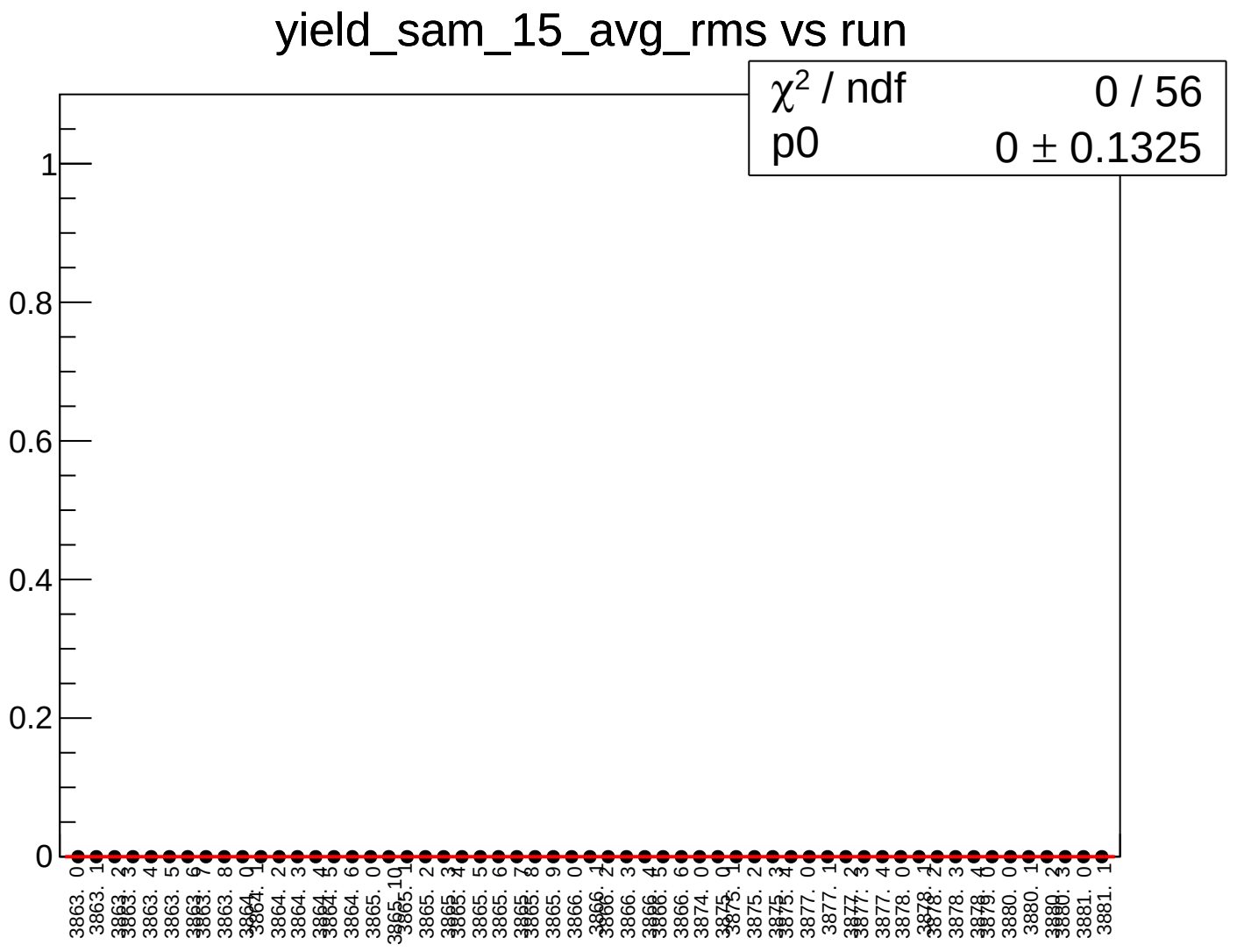

asym_sam_48_avg_mean vs run
χ² / ndf 56.86 / 56
p0 844.8 ± 2659
pull
Entries 57
Mean 531.7
Std Dev 508

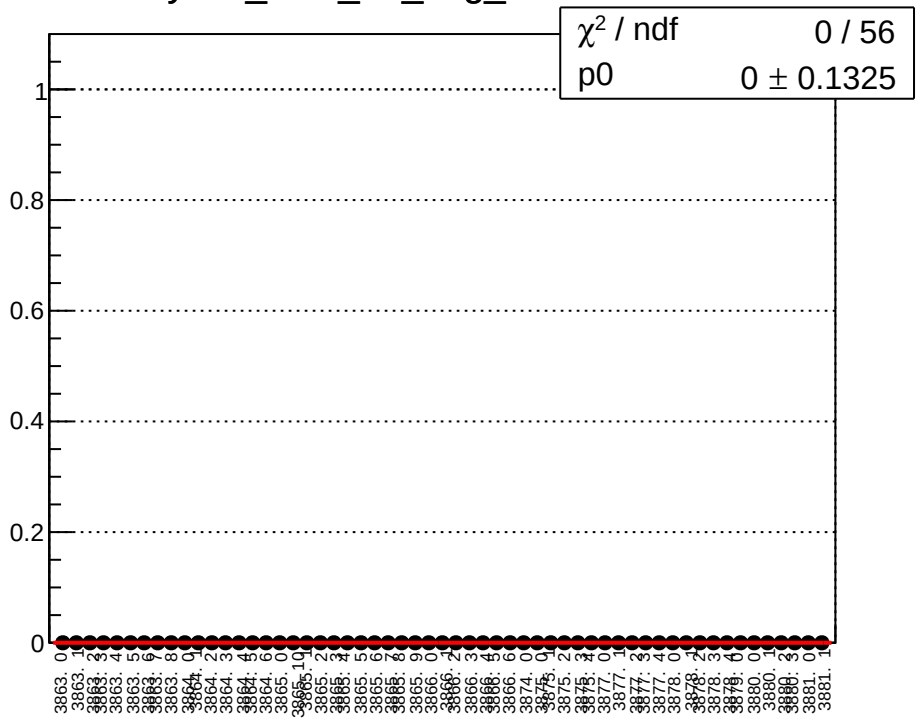

pull1D
Entries 57
Mean −0.01043
Std Dev 0.9987

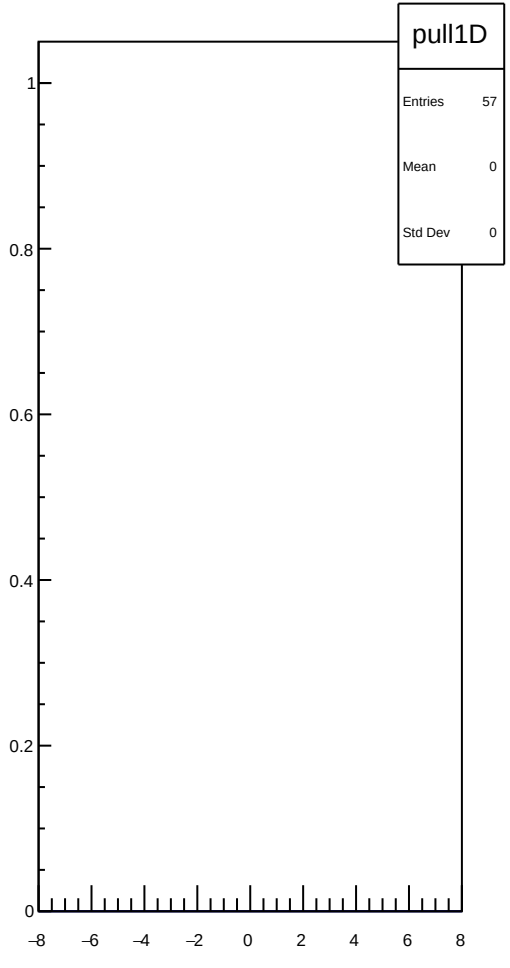

asym_sam_48_avg_rms vs run
χ² / ndf 1.778e+04 / 56
p0 1945 ± 1.88
2600
2400
2200
2000
1800
1600
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

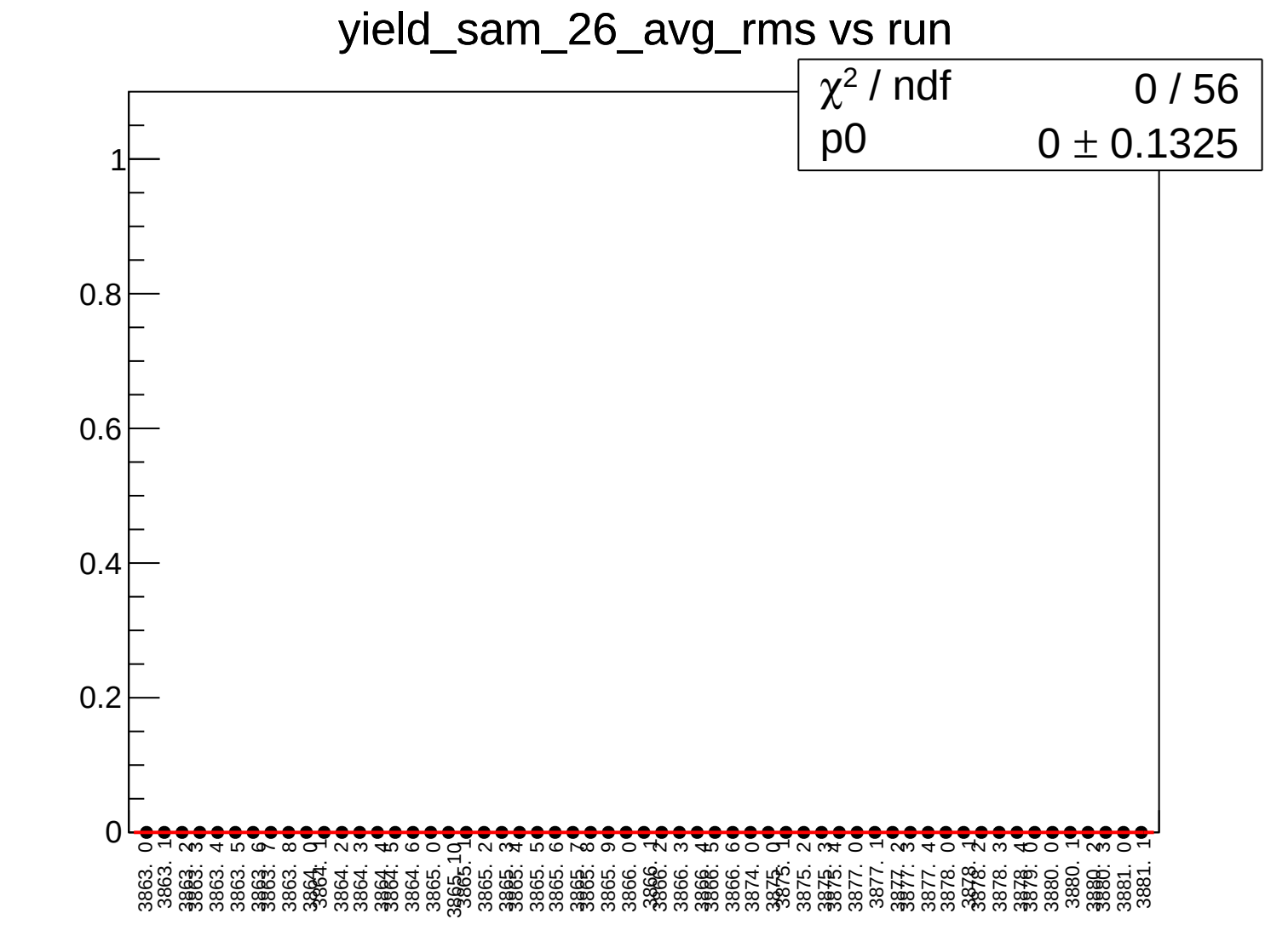

yield_sam_15_avg_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

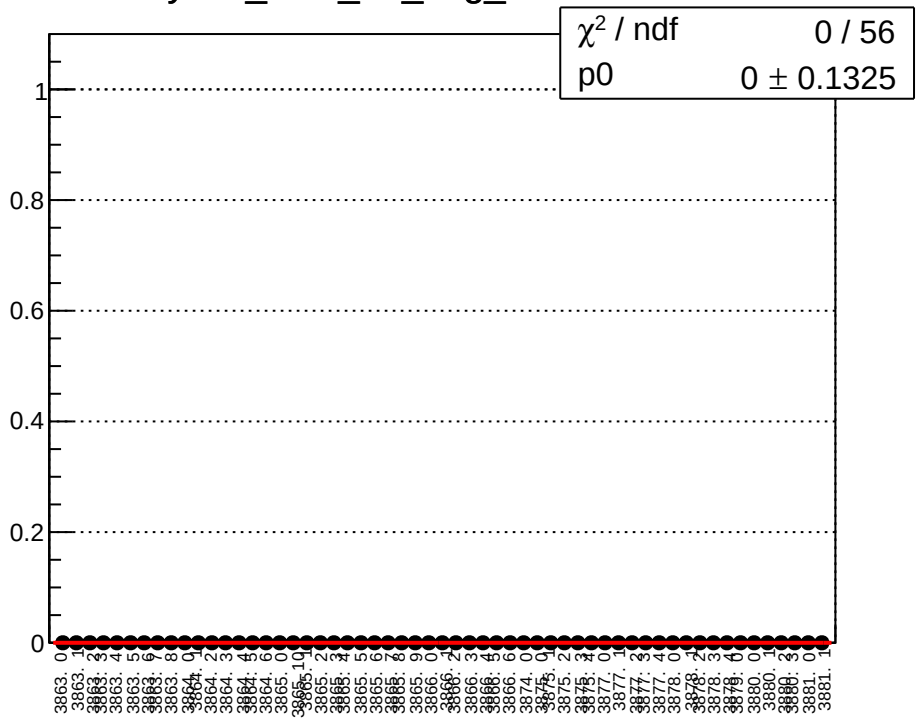

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

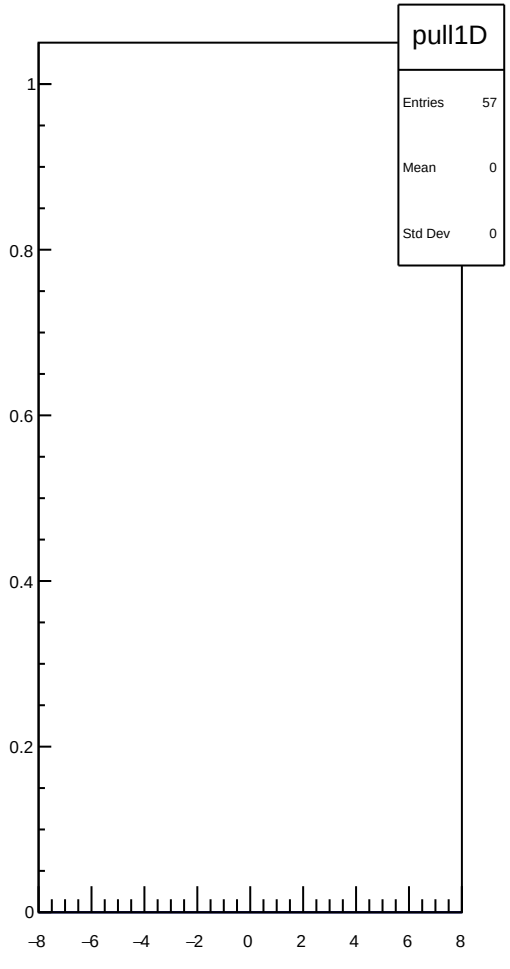

yield_sam_15_avg_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

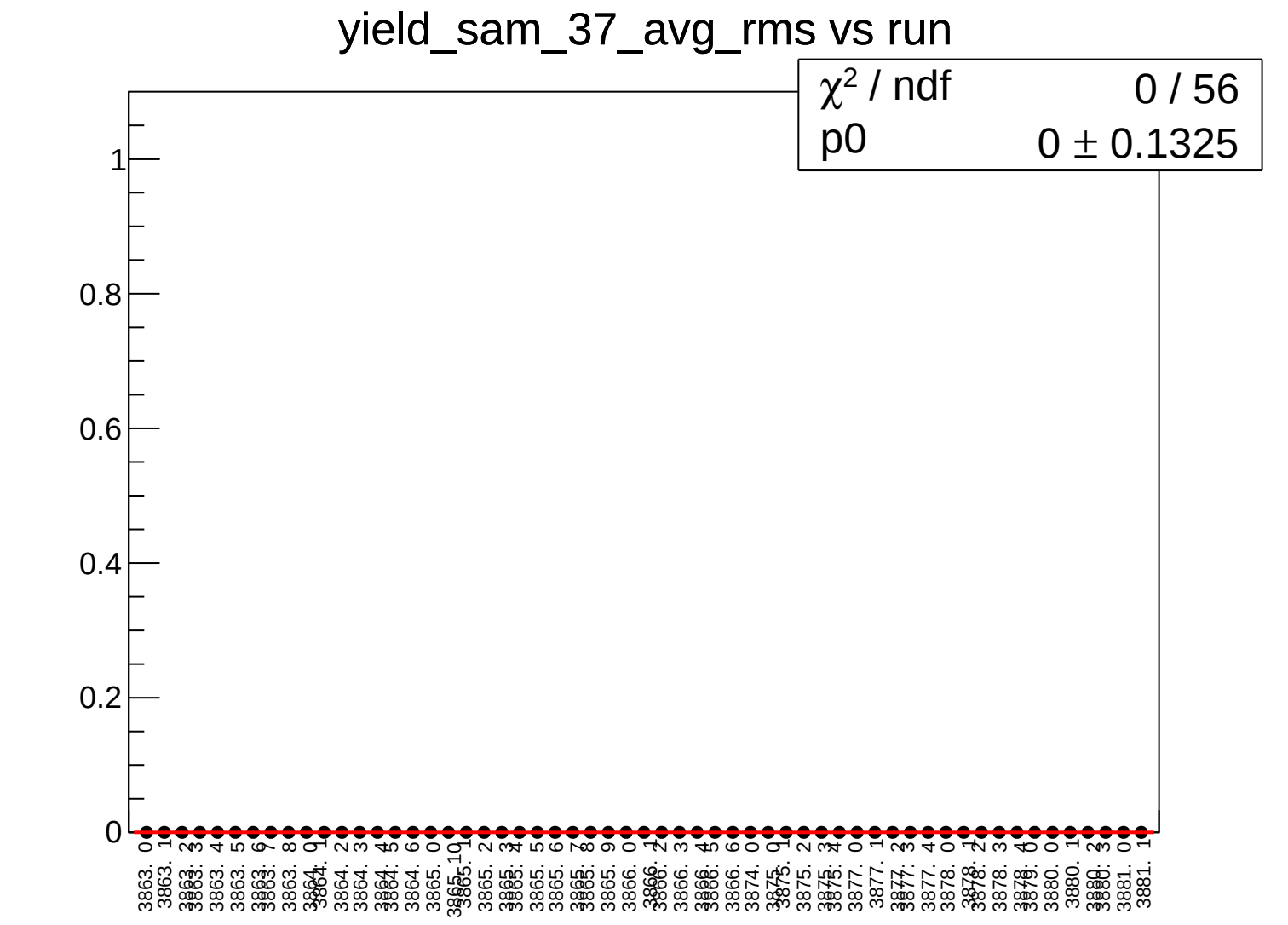

yield_sam_26_avg_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

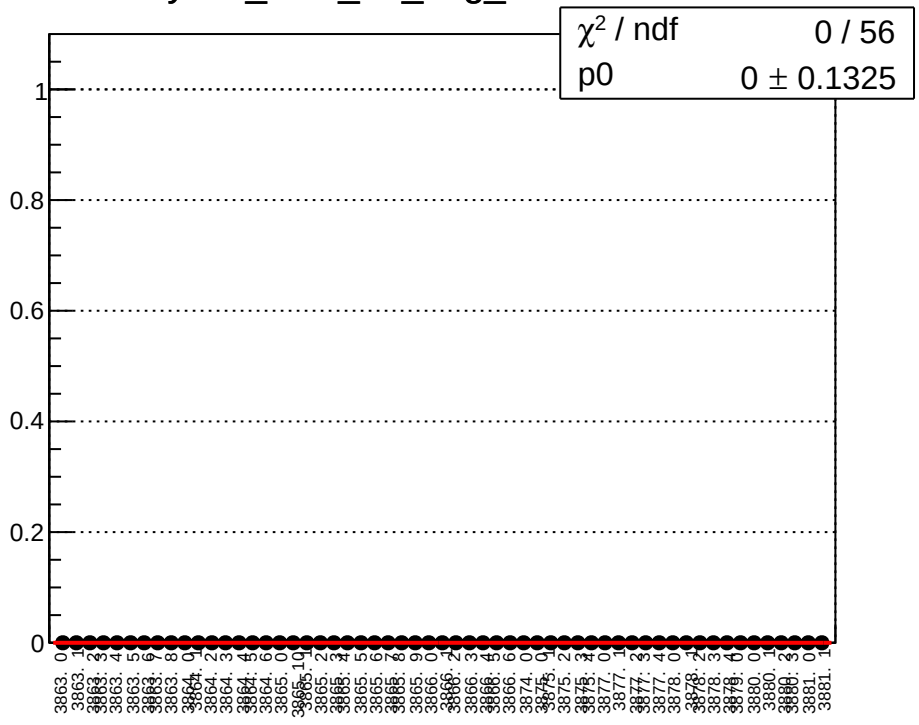

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

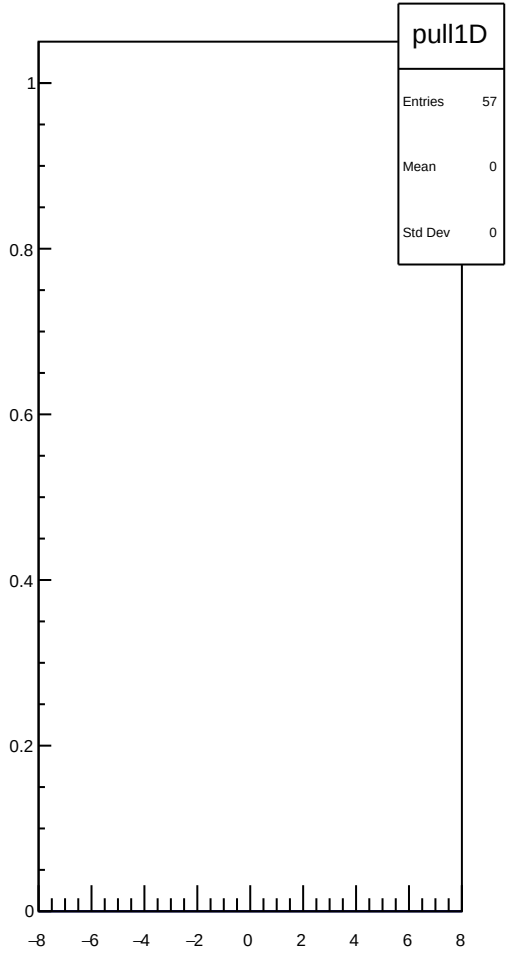

yield_sam_26_avg_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

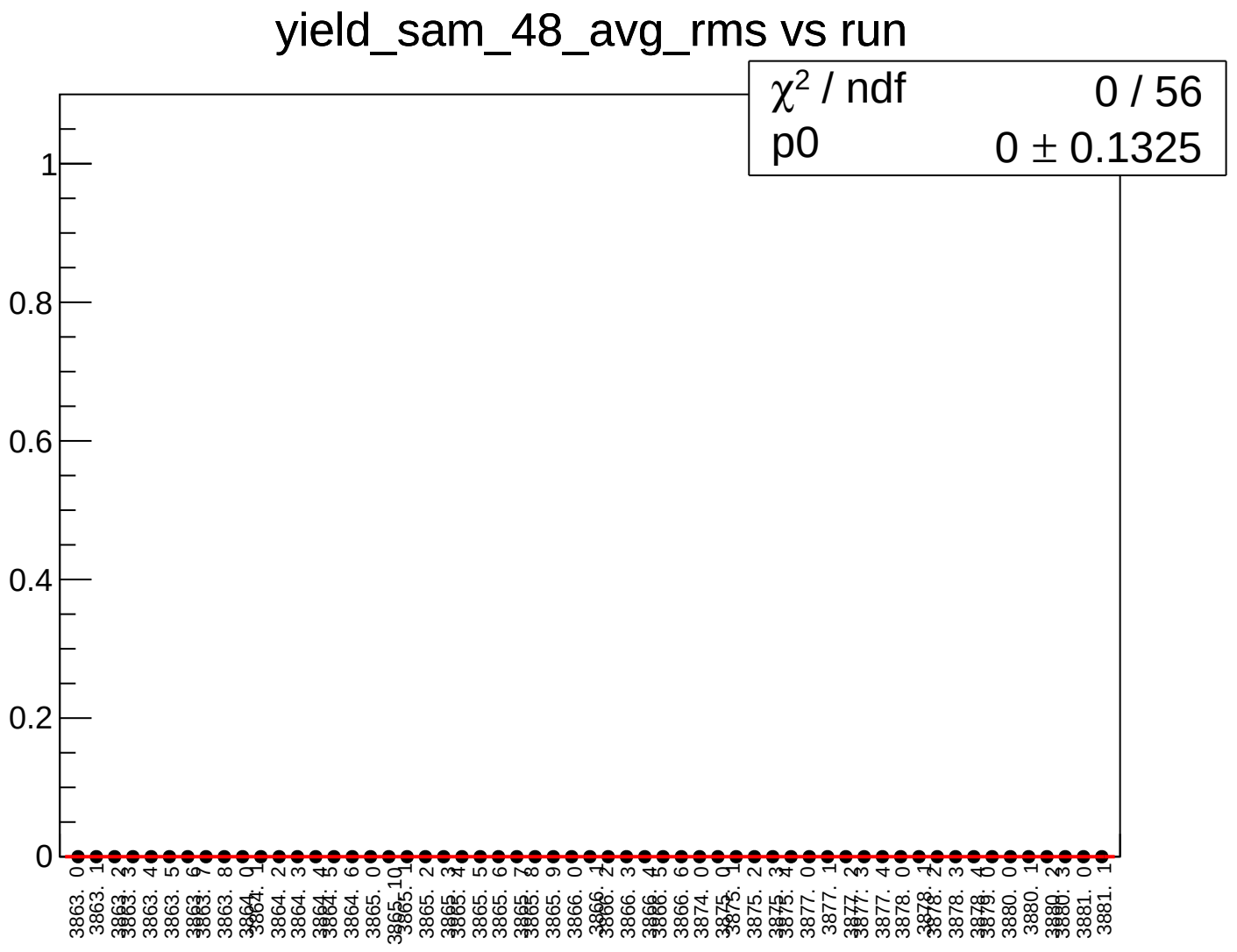

yield_sam_37_avg_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

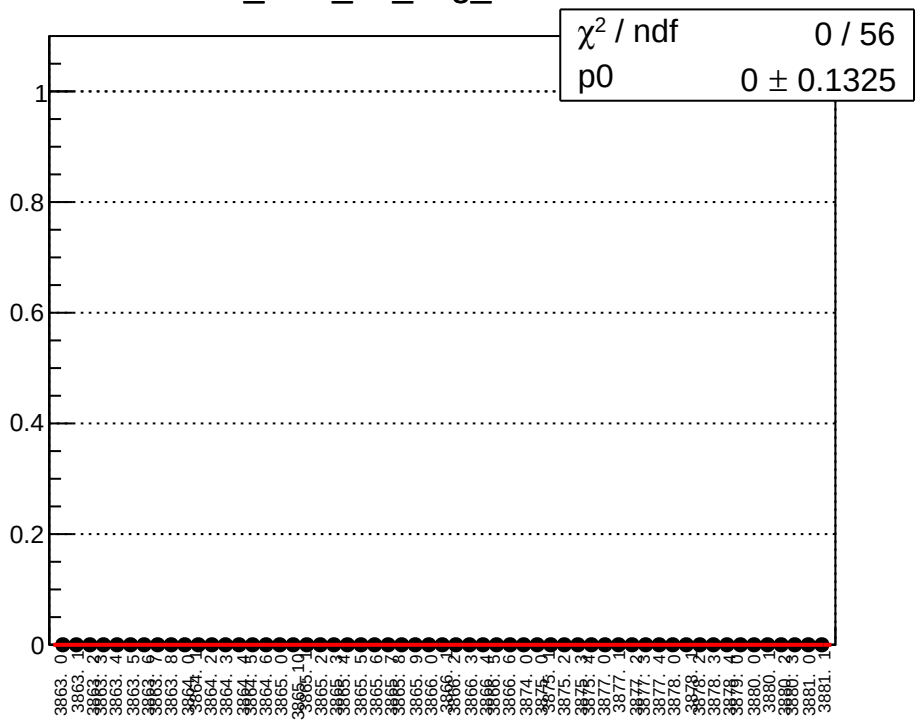

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

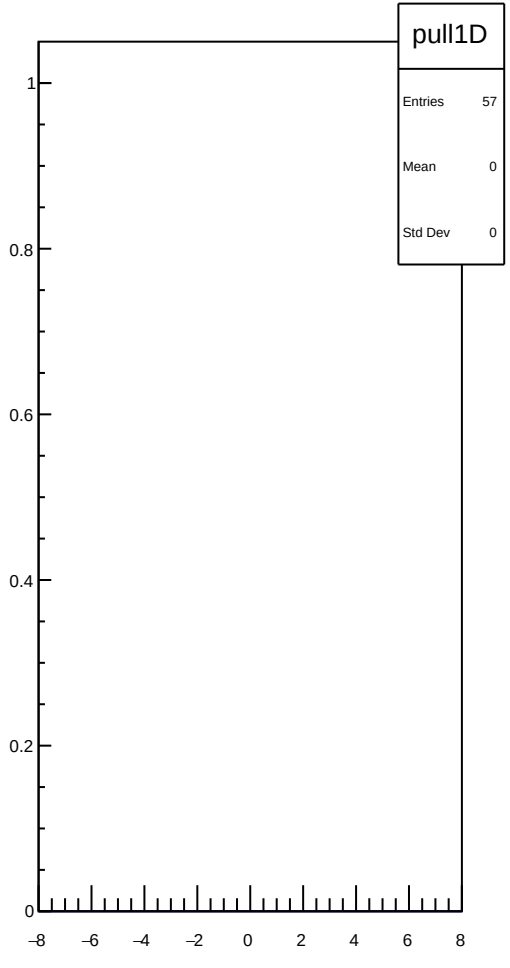

yield_sam_37_avg_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

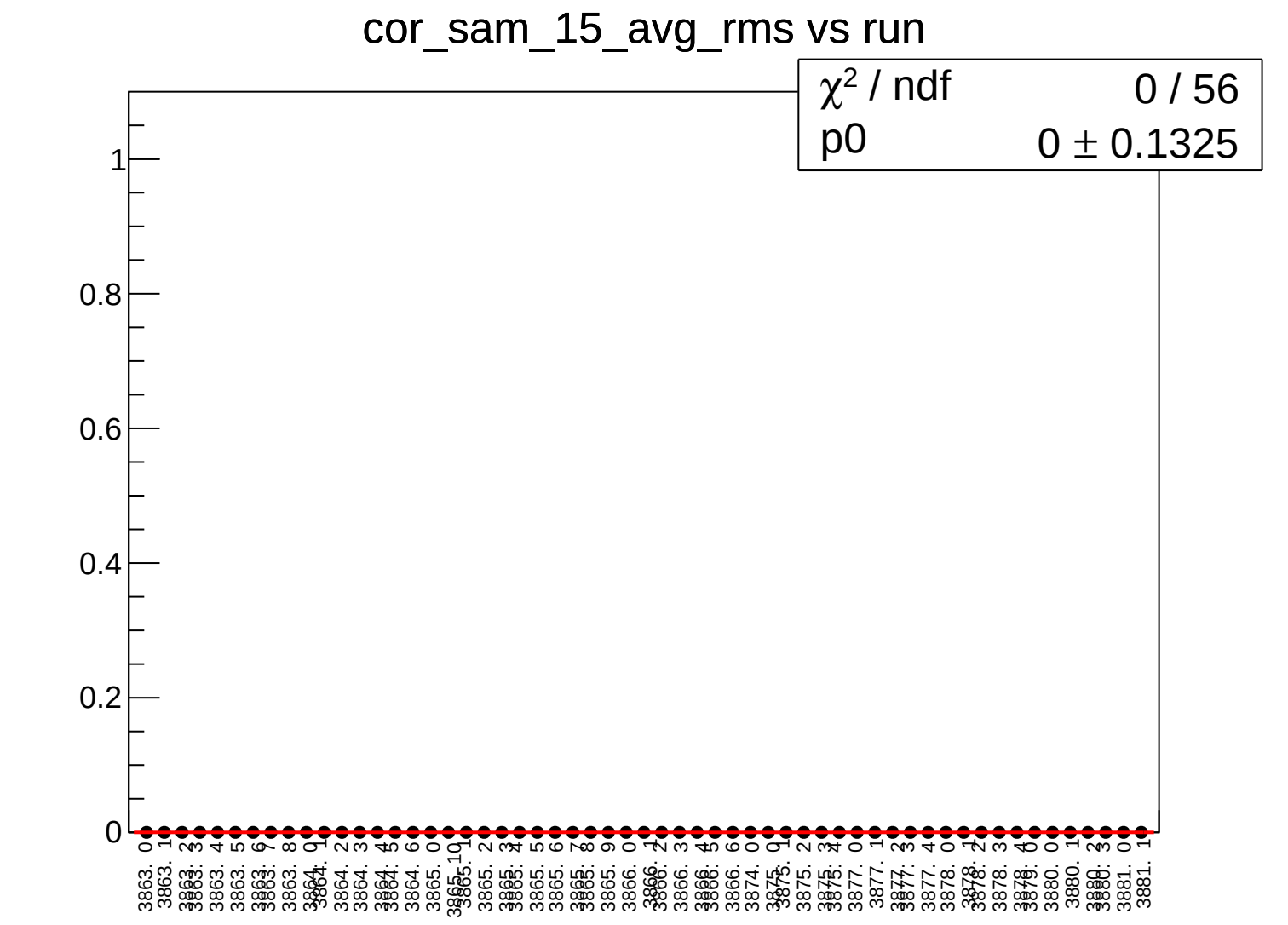

yield_sam_48_avg_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

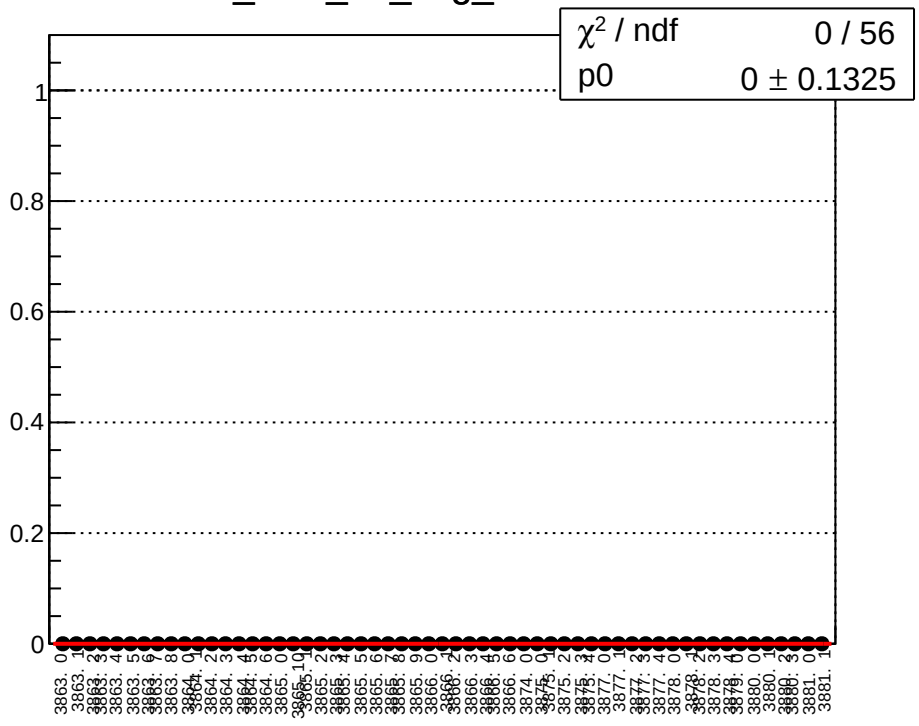

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

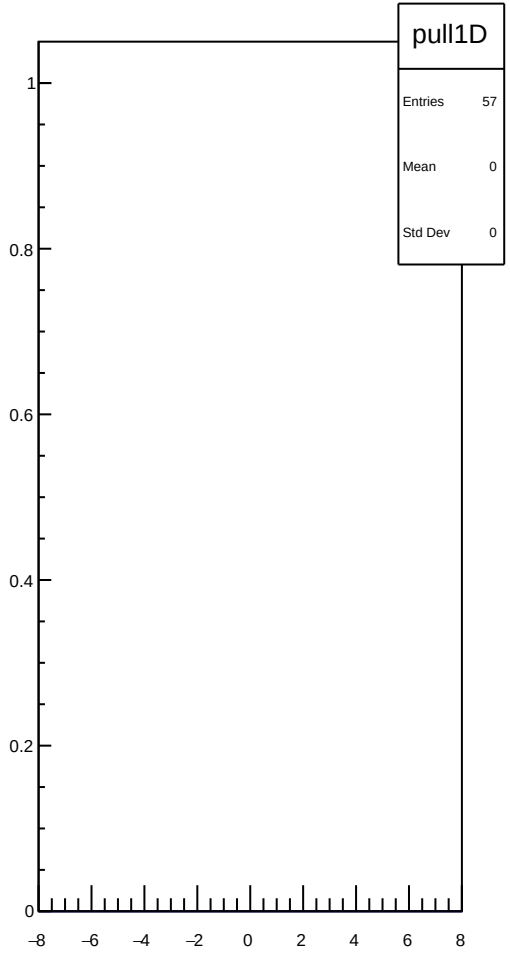

yield_sam_48_avg_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

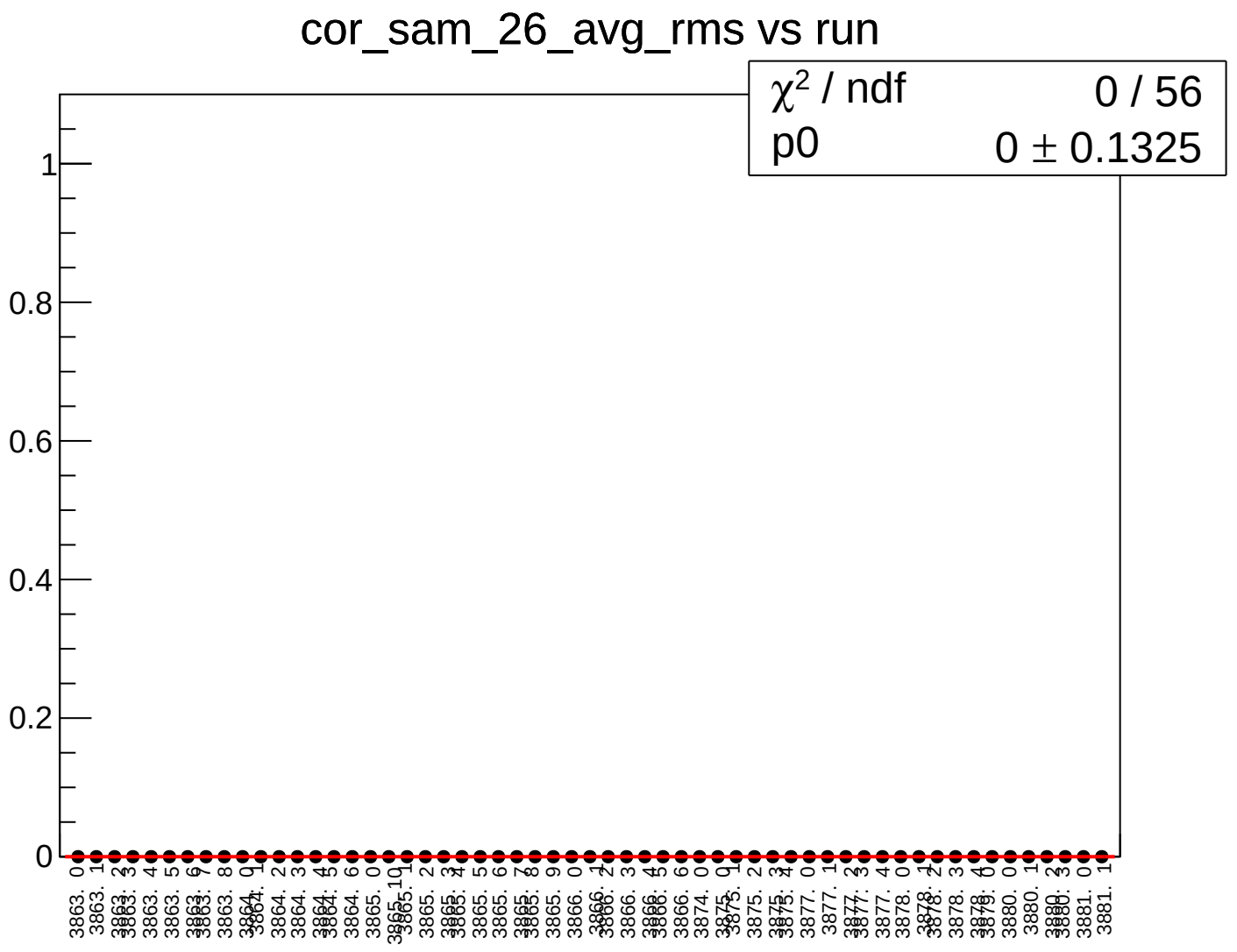

cor_sam_15_avg_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

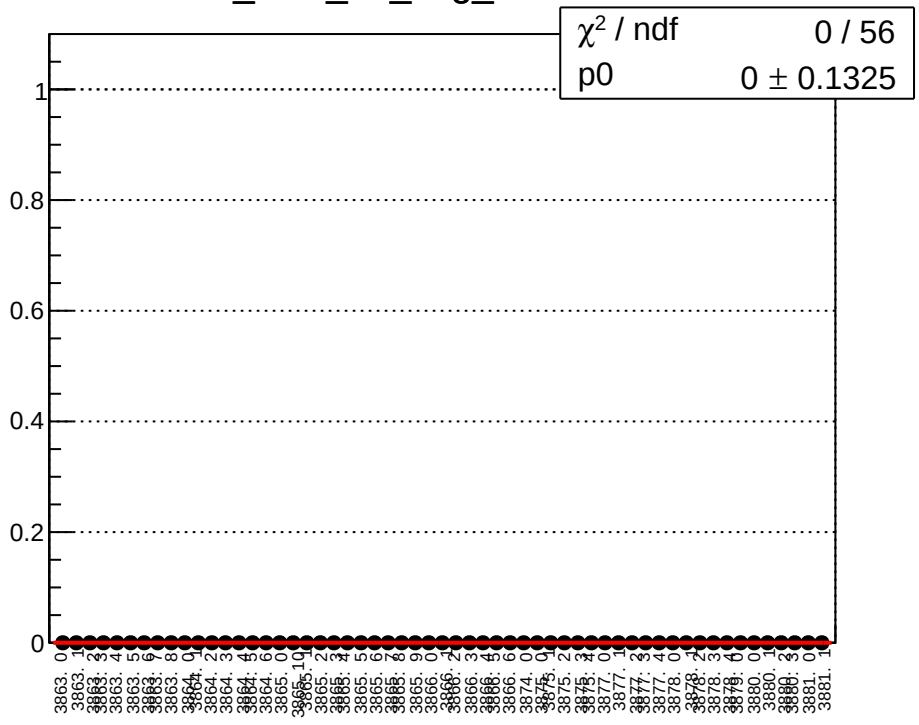

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

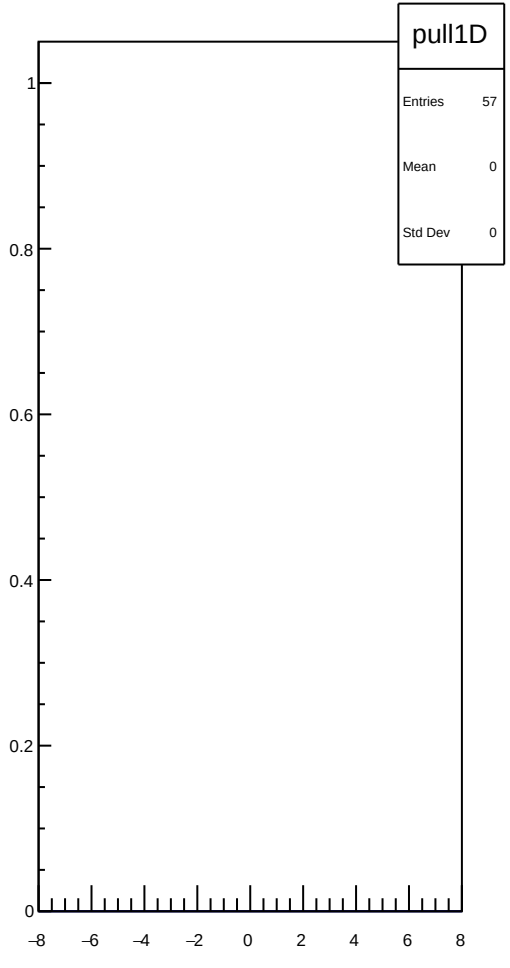

cor_sam_15_avg_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

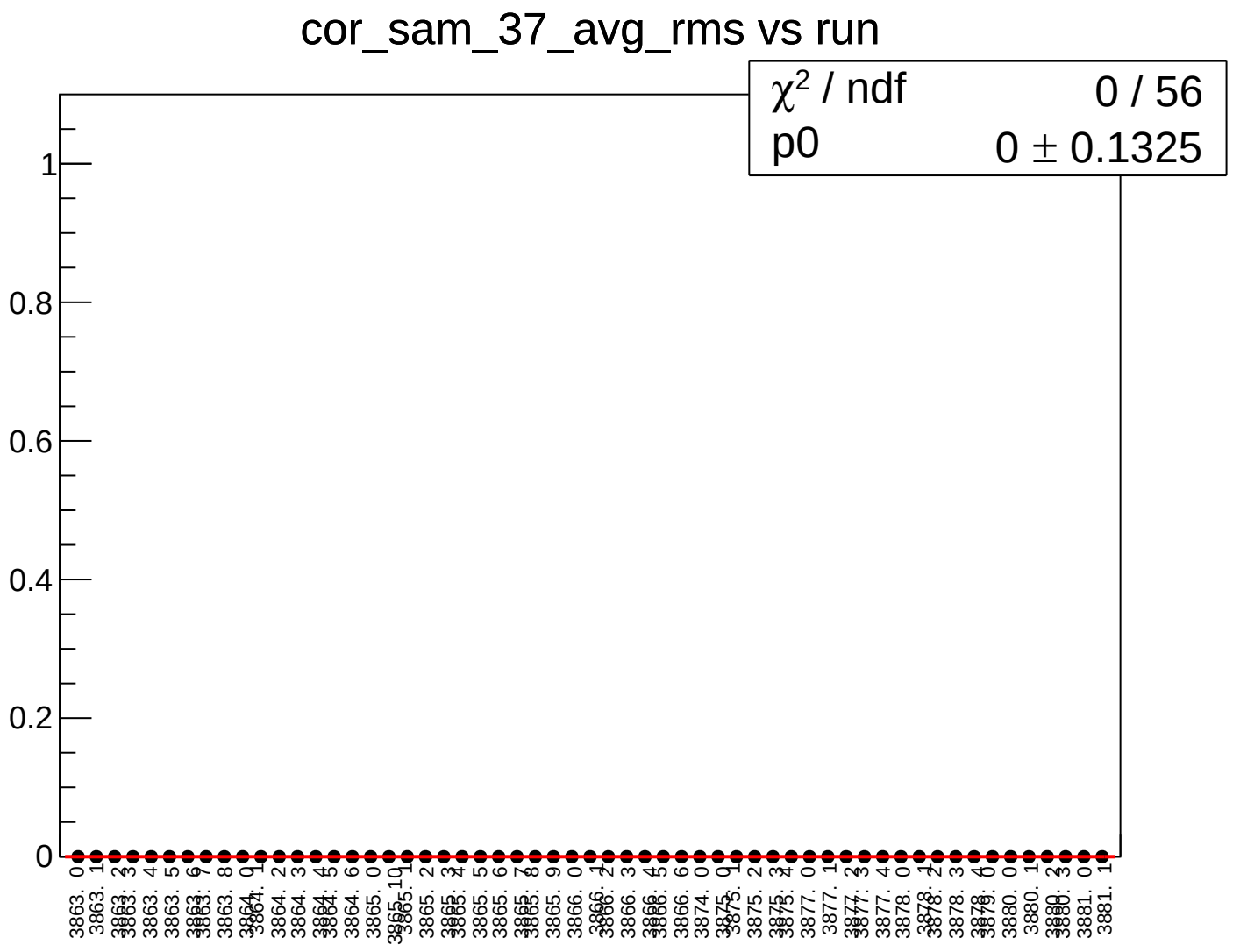

cor_sam_26_avg_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

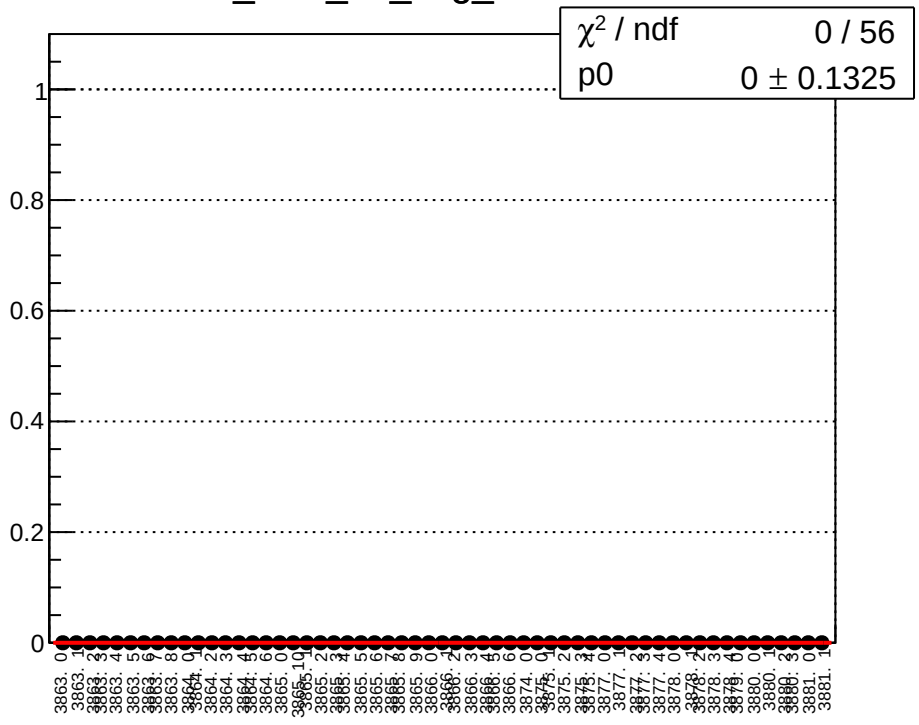

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

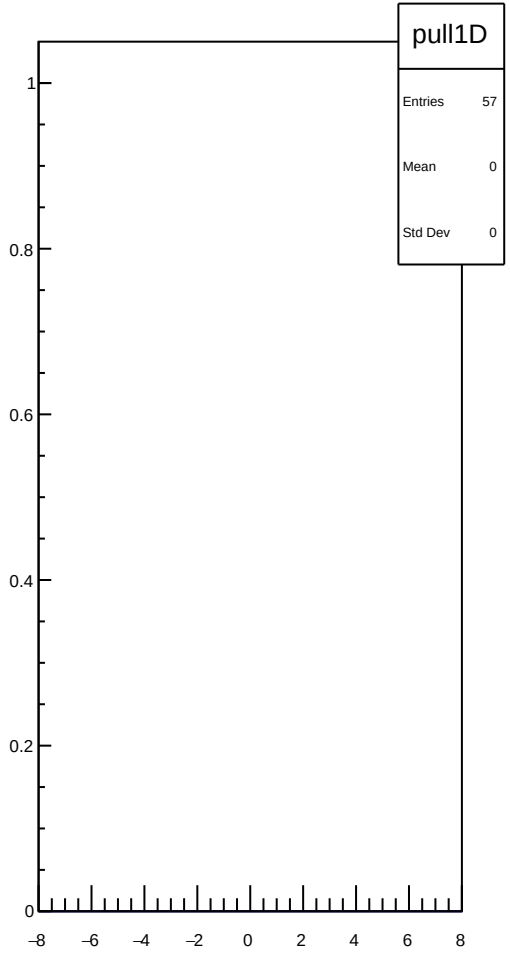

cor_sam_26_avg_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

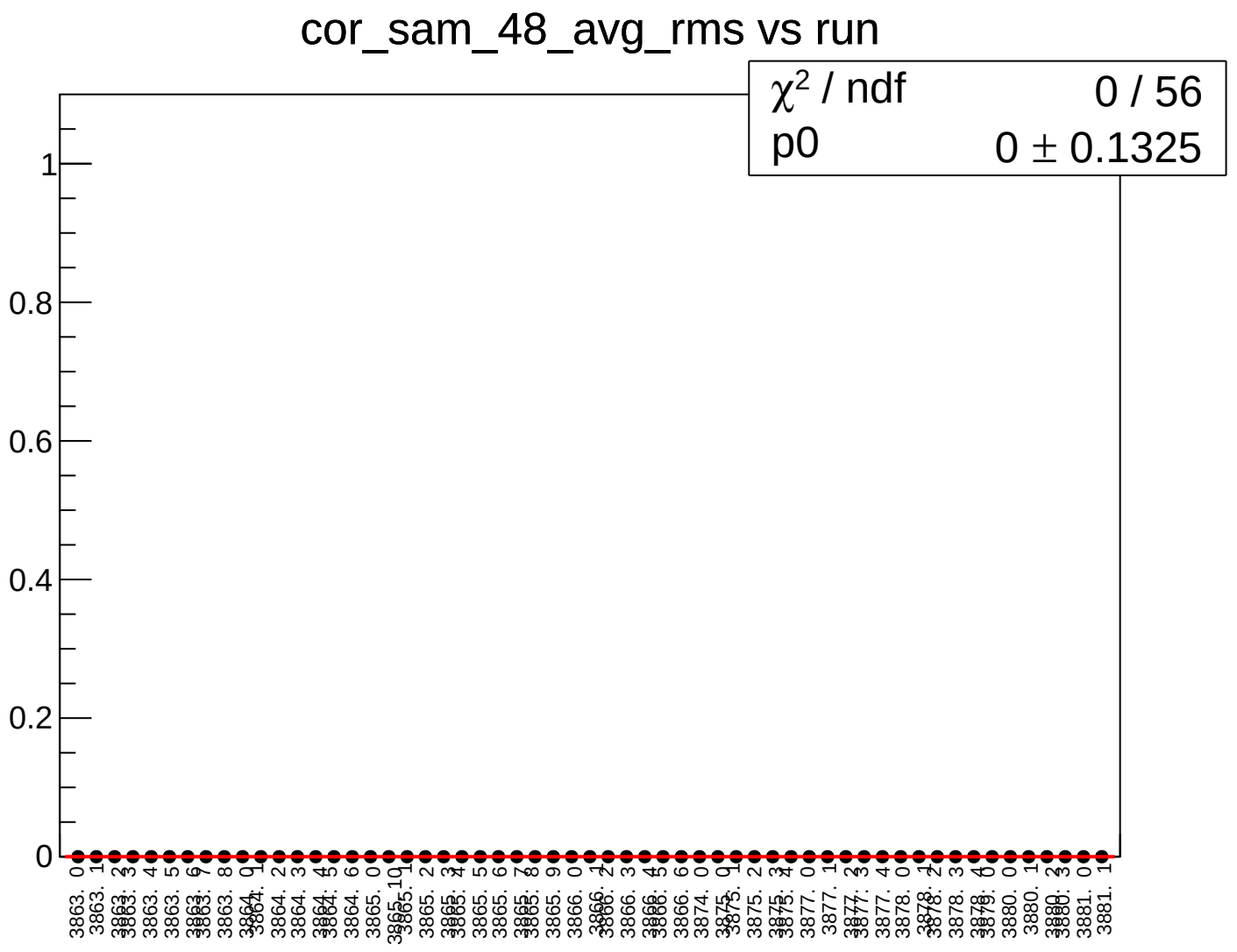

cor_sam_37_avg_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

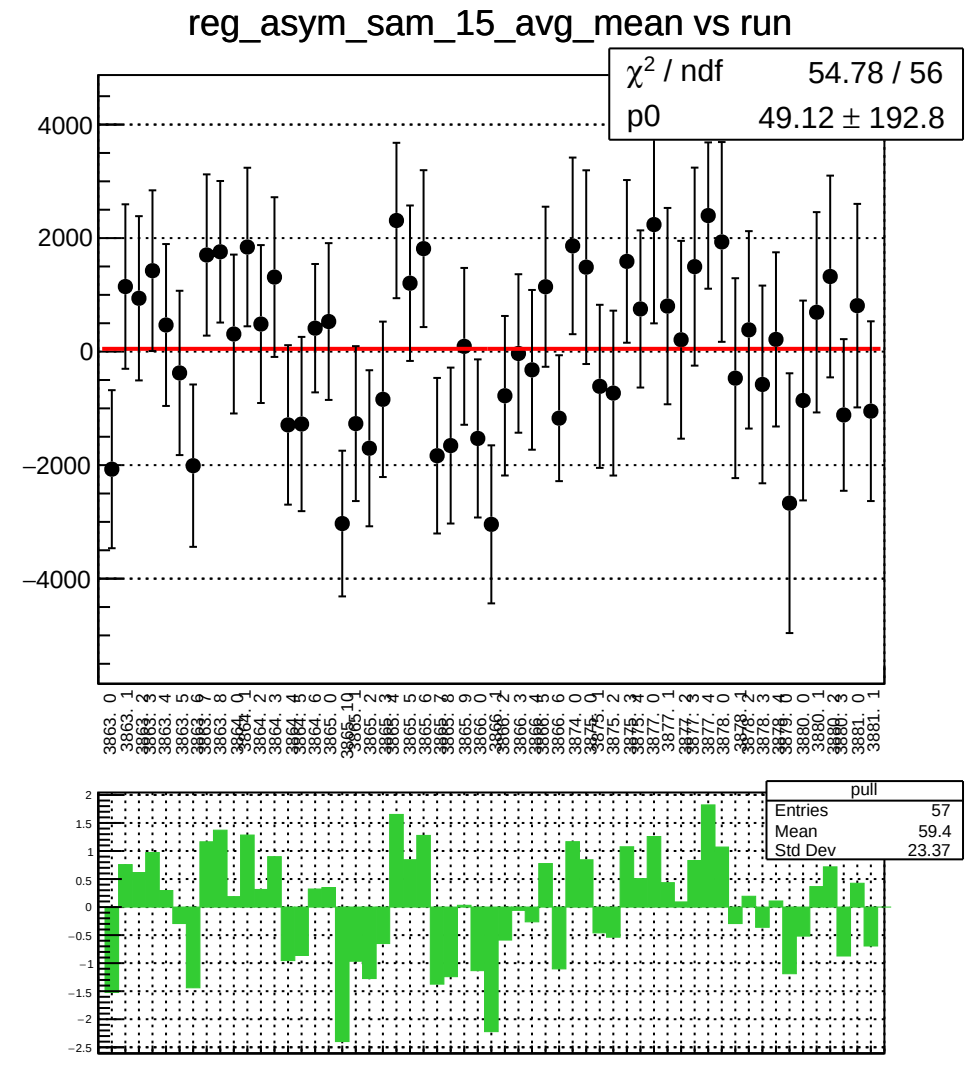

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

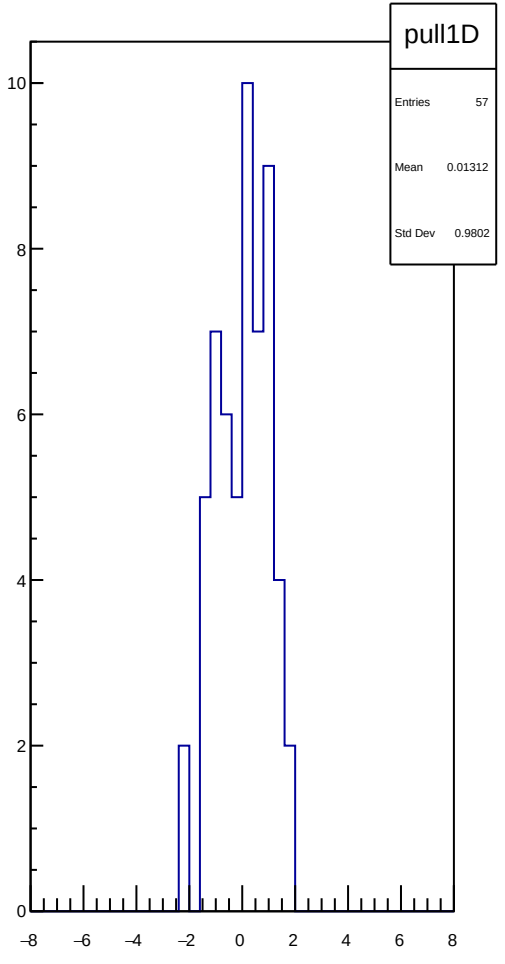

cor_sam_37_avg_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

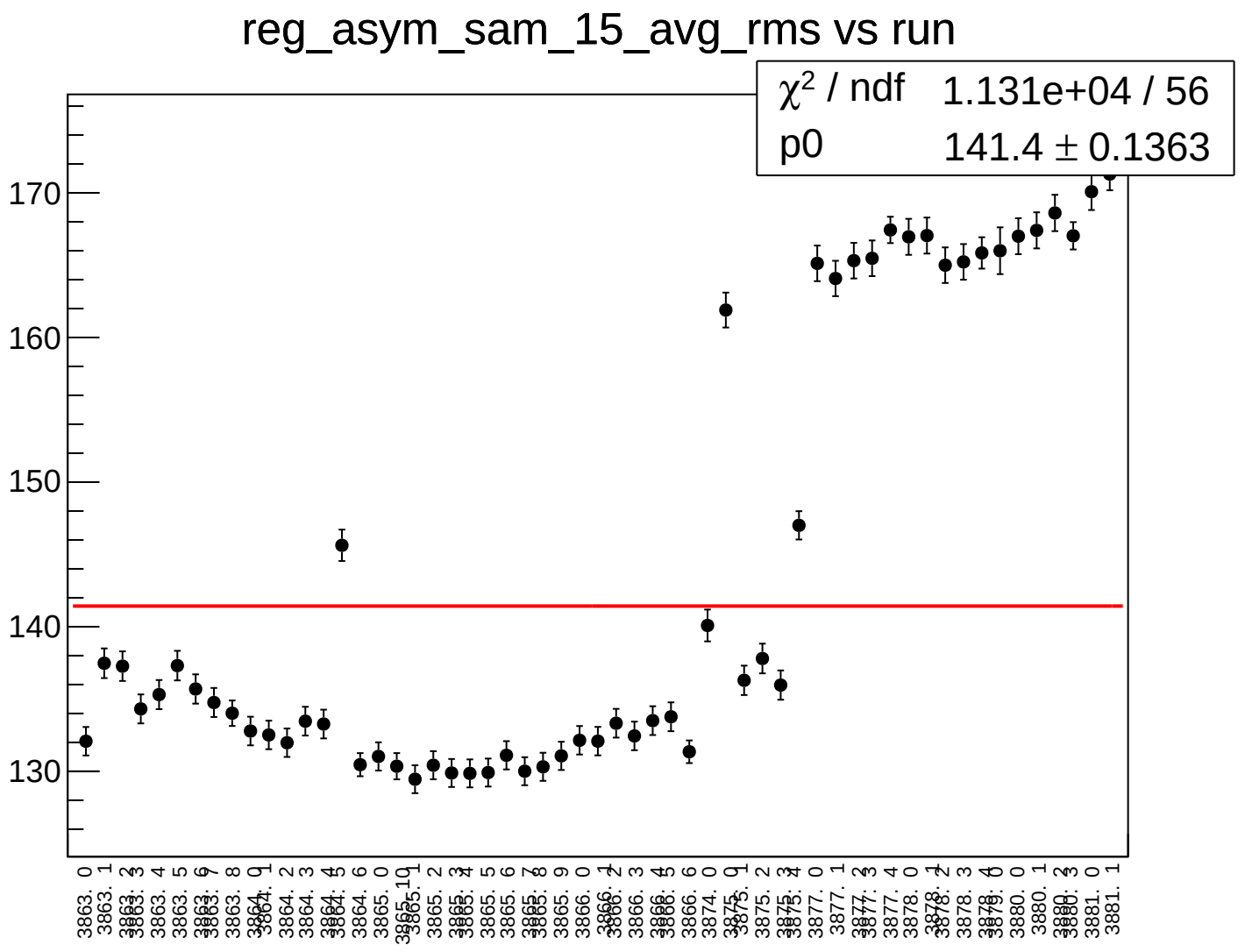

cor_sam_48_avg_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

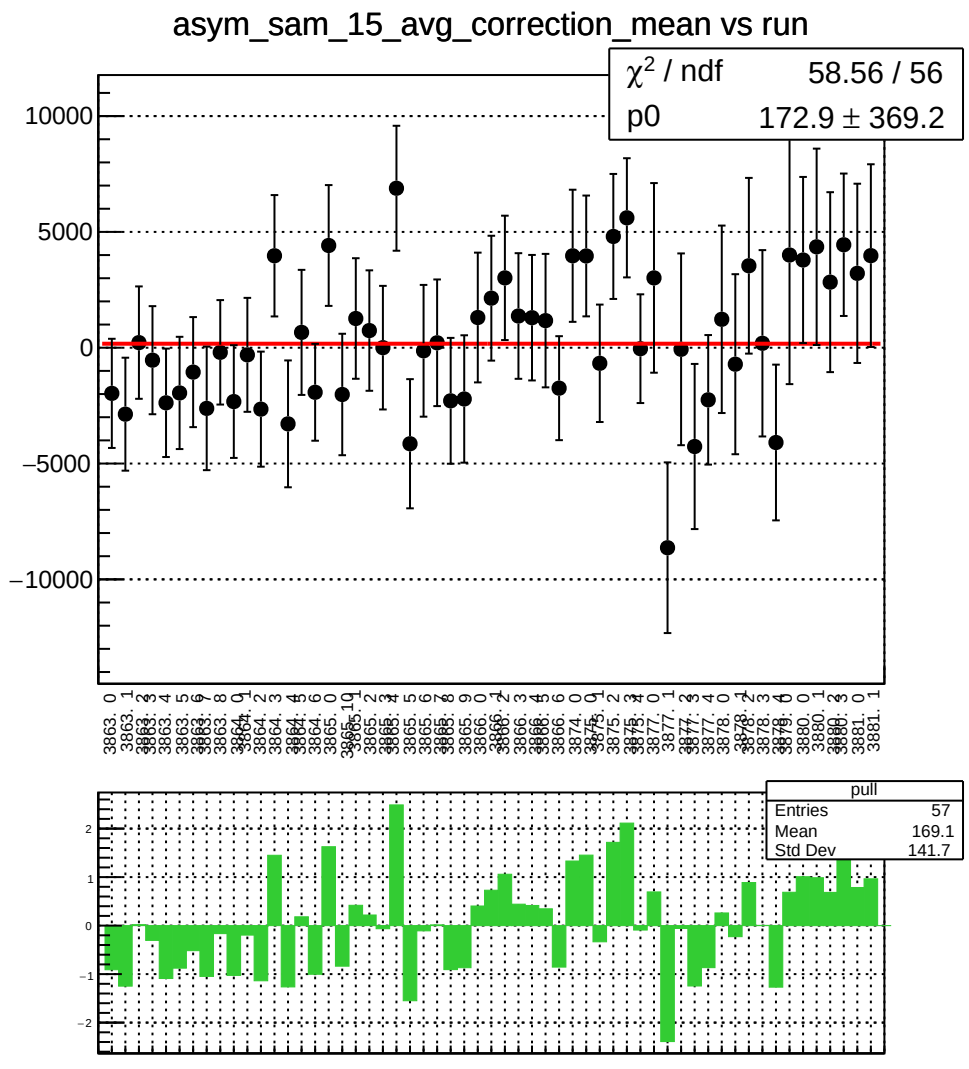

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

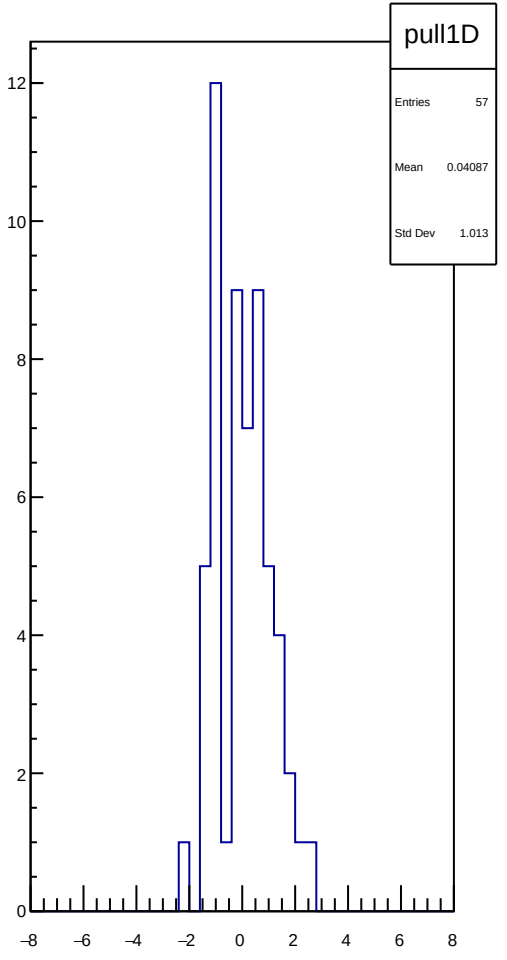

cor_sam_48_avg_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

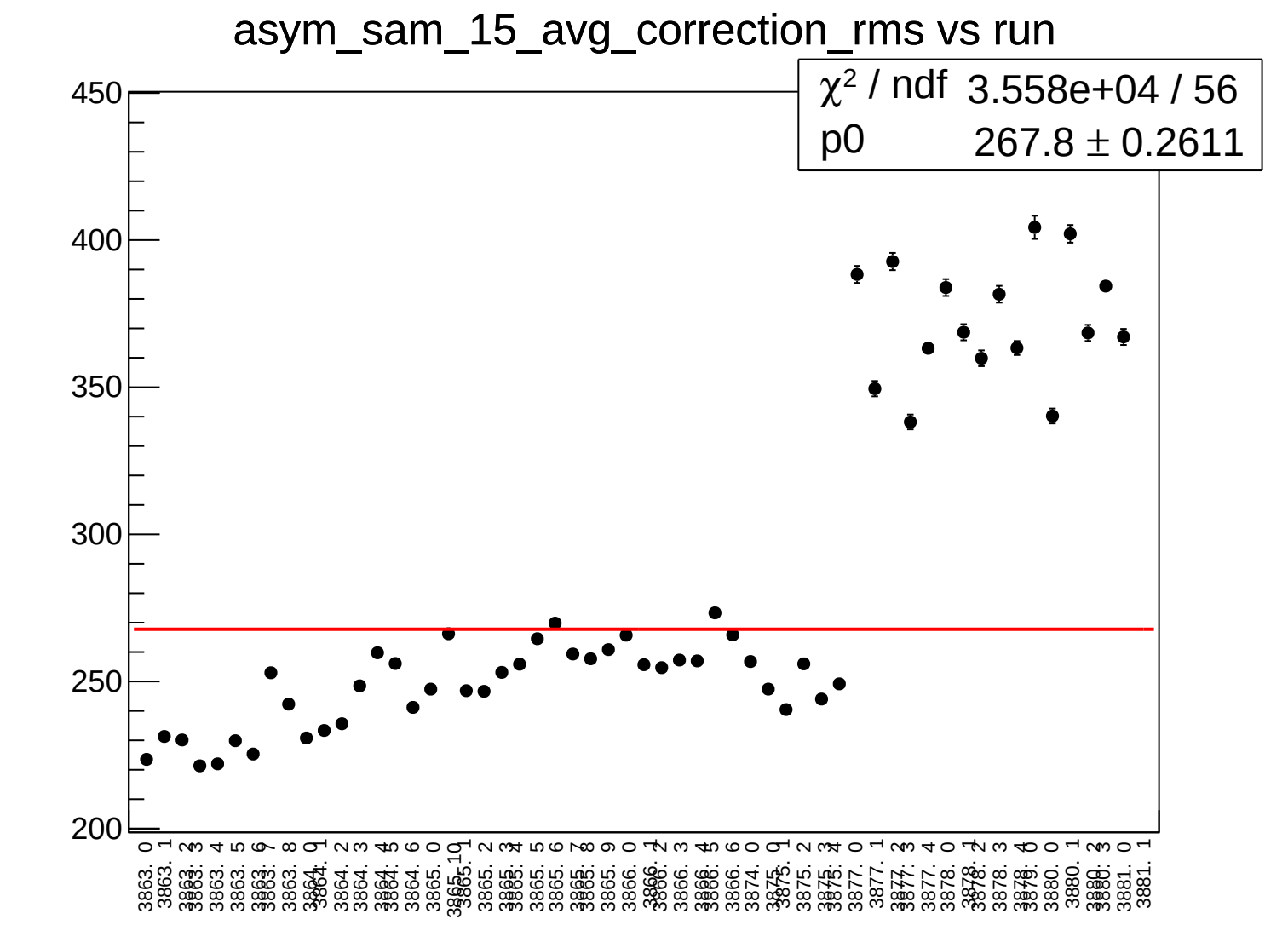

reg_asym_sam_15_avg_mean vs run
χ² / ndf 54.78 / 56
p0 49.12 ± 192.8
pull
Entries 57
Mean 59.4
Std Dev 23.37

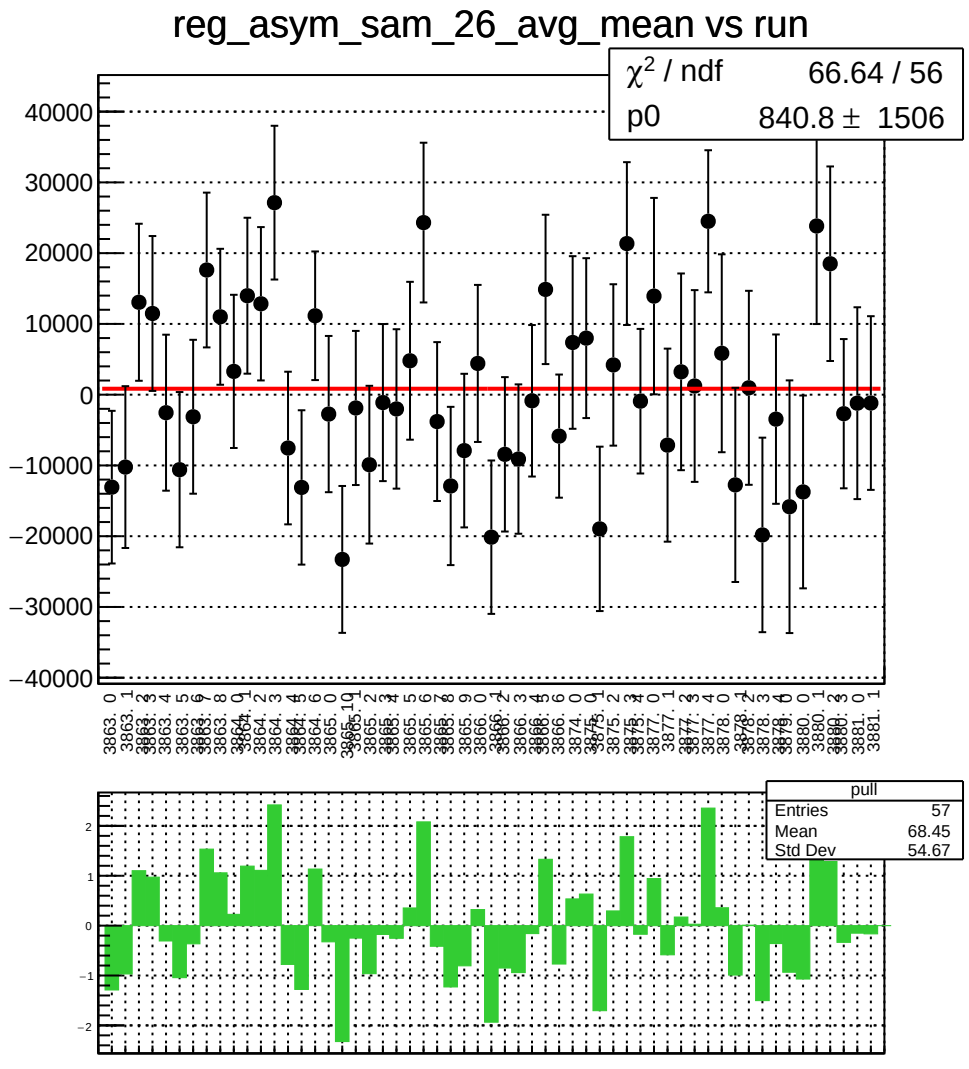

pull1D
Entries 57
Mean 0.01312
Std Dev 0.9802

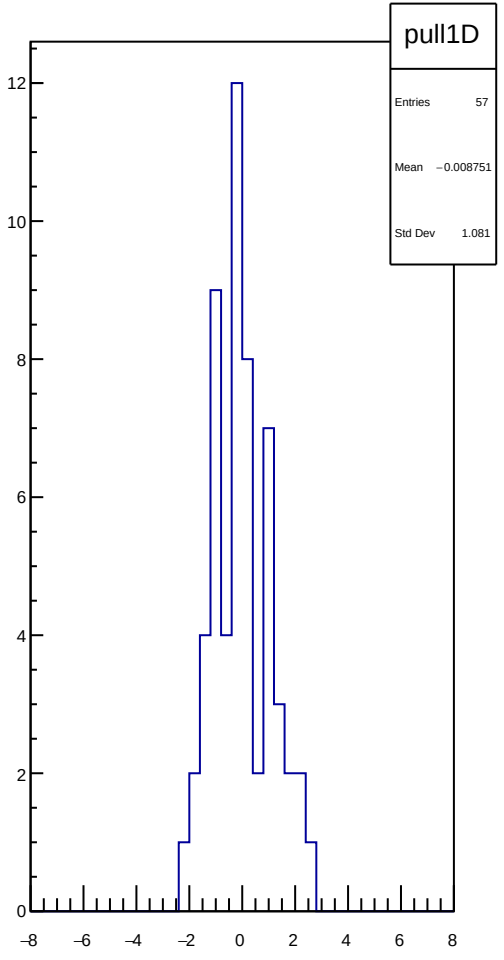

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.131e+04 / 56
p0 141.4 ± 0.1363
170
160
150
140
130

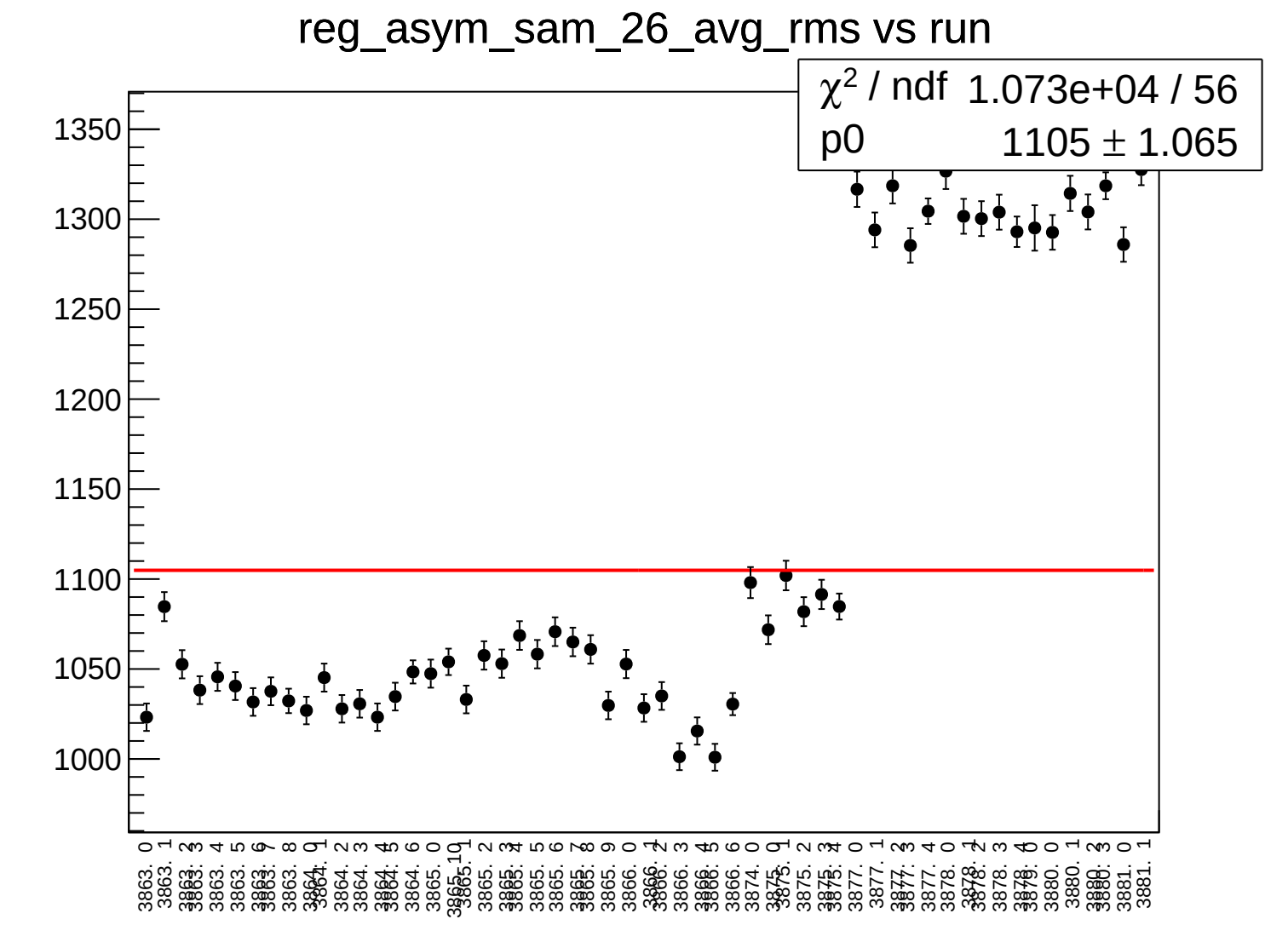

asym_sam_15_avg_correction_mean vs run
χ² / ndf 58.56 / 56
p0 172.9 ± 369.2
10000
5000
0
−5000
−10000
pull
Entries 57
Mean 169.1
Std Dev 141.7
2
1
0
−1
−2

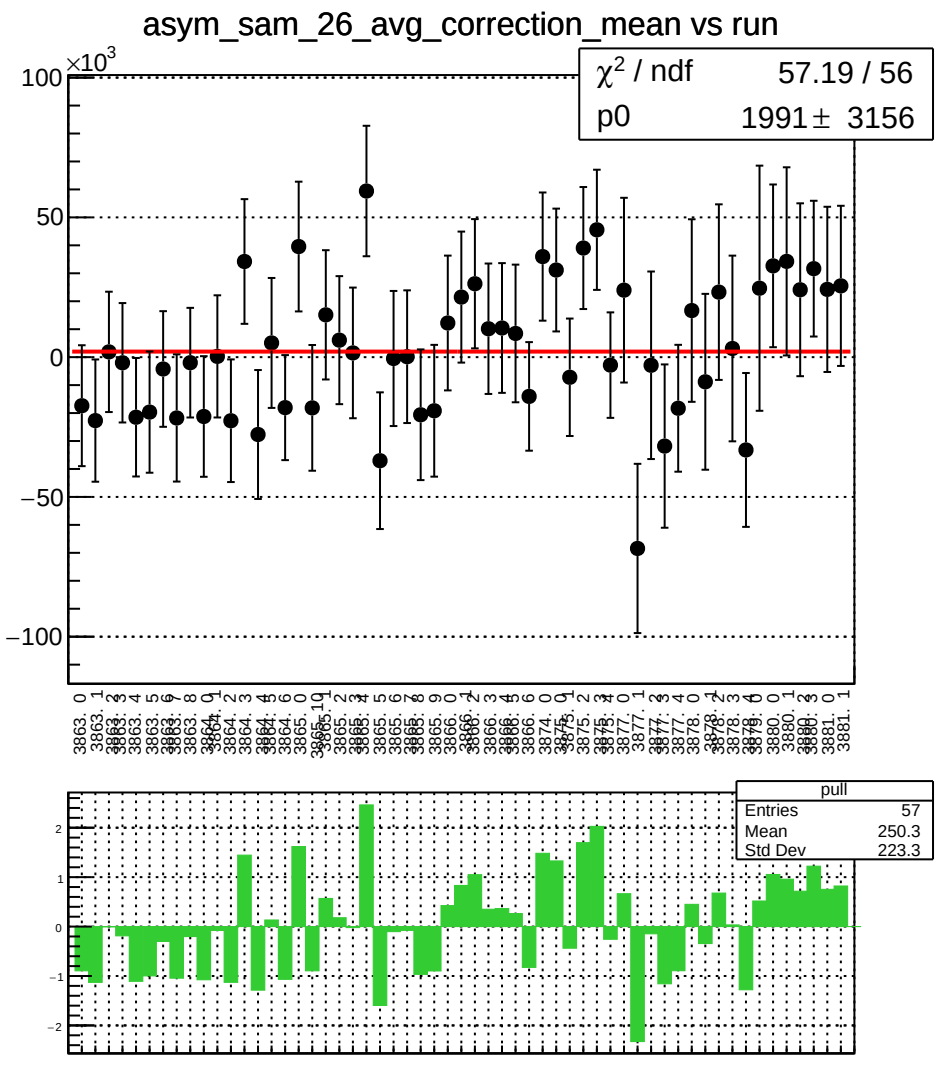

pull1D
Entries 57
Mean 0.04087
Std Dev 1.013
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

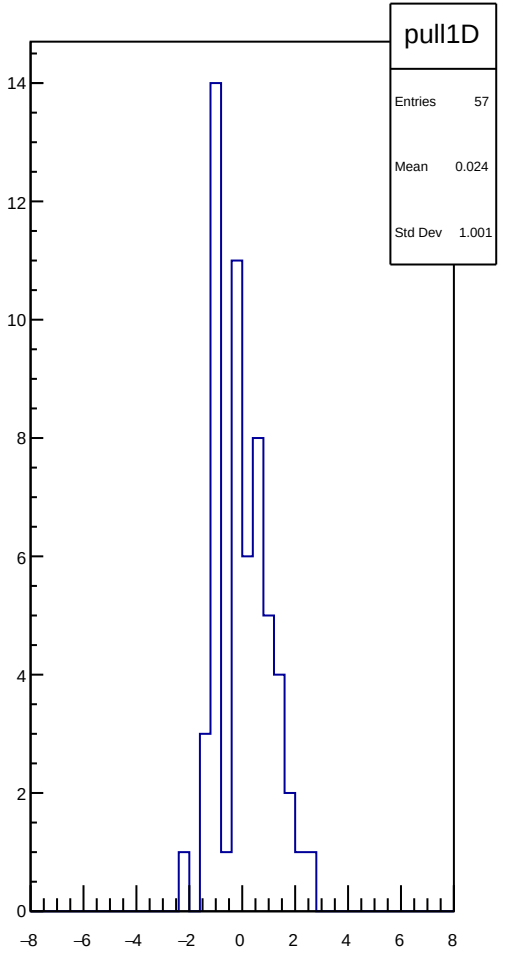

asym_sam_15_avg_correction_rms vs run
χ² / ndf 3.558e+04 / 56
p0 267.8 ± 0.2611
450
400
350
300
250
200

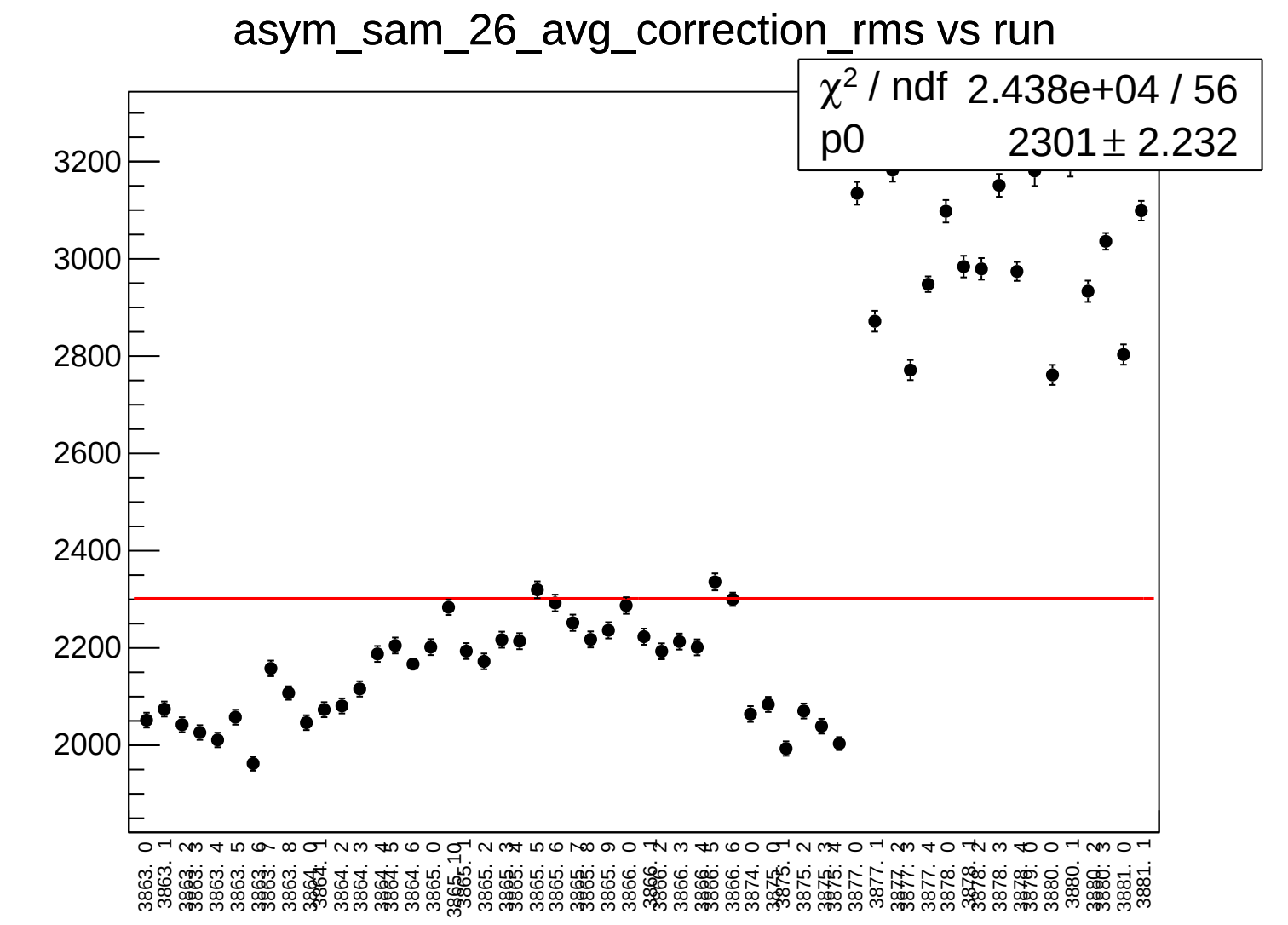

reg_asym_sam_26_avg_mean vs run
χ² / ndf 66.64 / 56
p0 840.8 ± 1506
pull
Entries 57
Mean 68.45
Std Dev 54.67

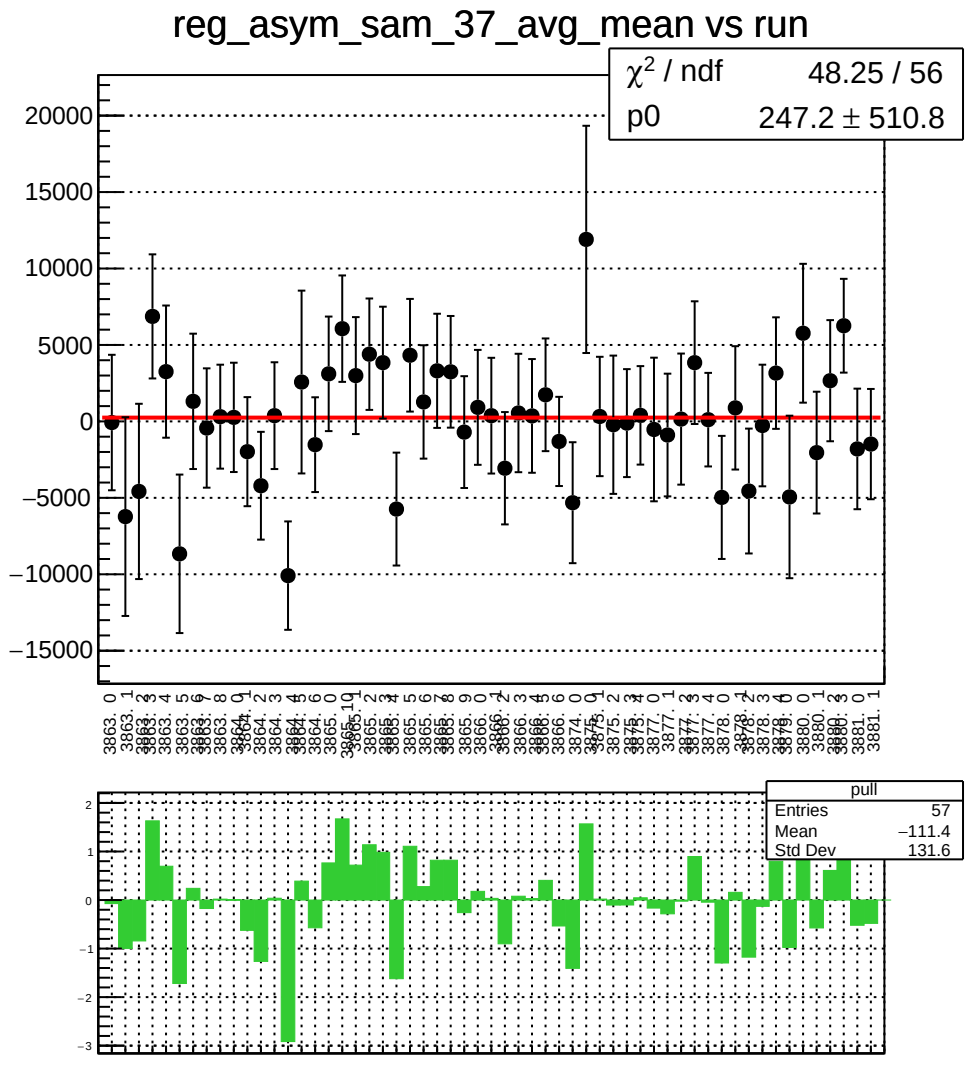

pull1D
Entries 57
Mean −0.008751
Std Dev 1.081

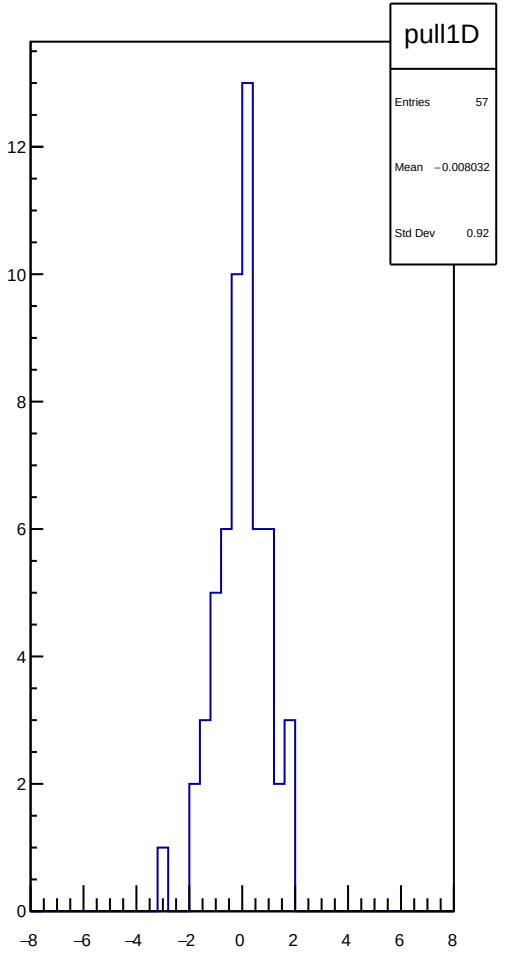

reg_asym_sam_26_avg_rms vs run
χ² / ndf 1.073e+04 / 56
p0 1105 ± 1.065
1350
1300
1250
1200
1150
1100
1050
1000

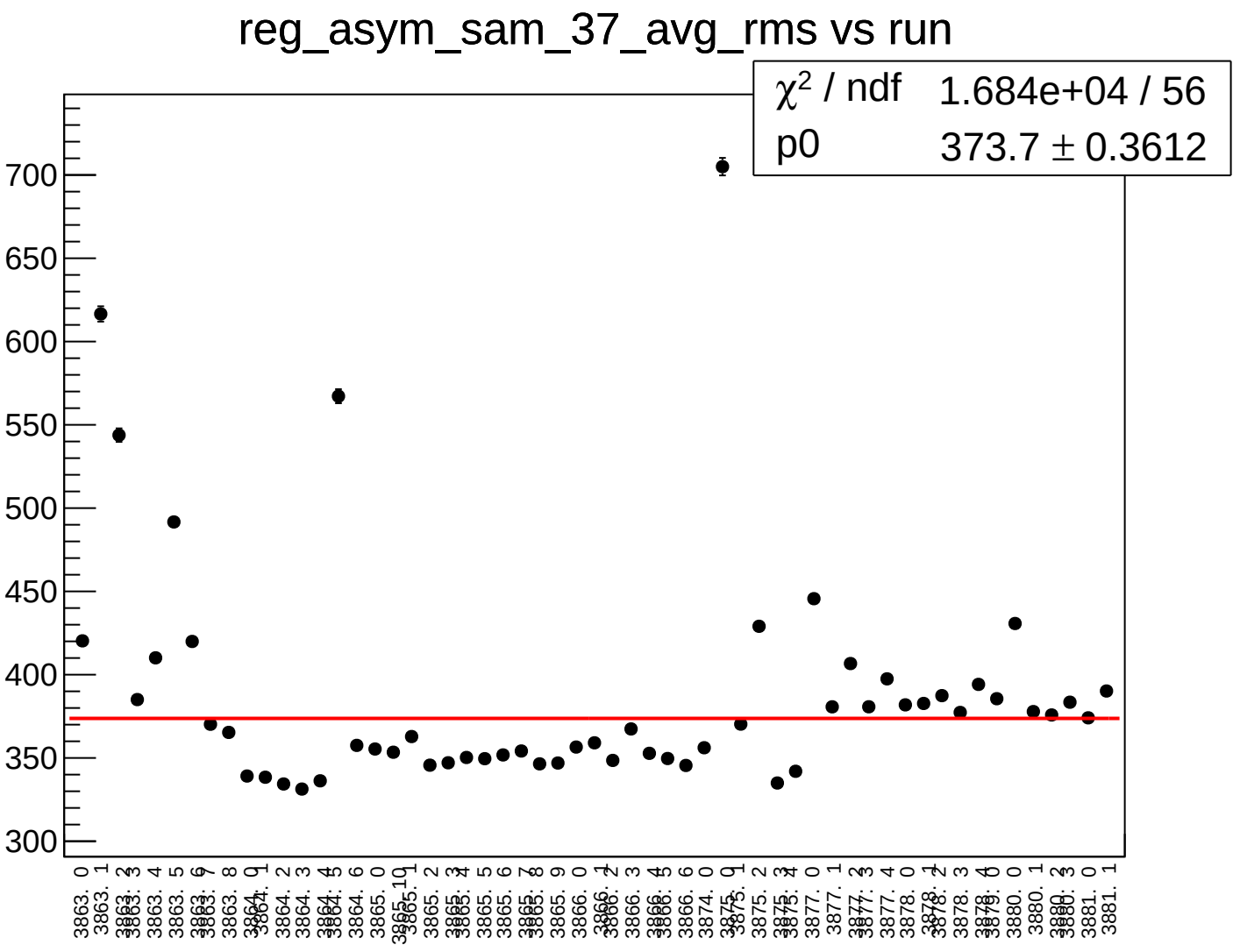

asym_sam_26_avg_correction_mean vs run
×10^3
χ^2 / ndf 57.19 / 56
p0 1991 ± 3156
pull
Entries 57
Mean 250.3
Std Dev 223.3

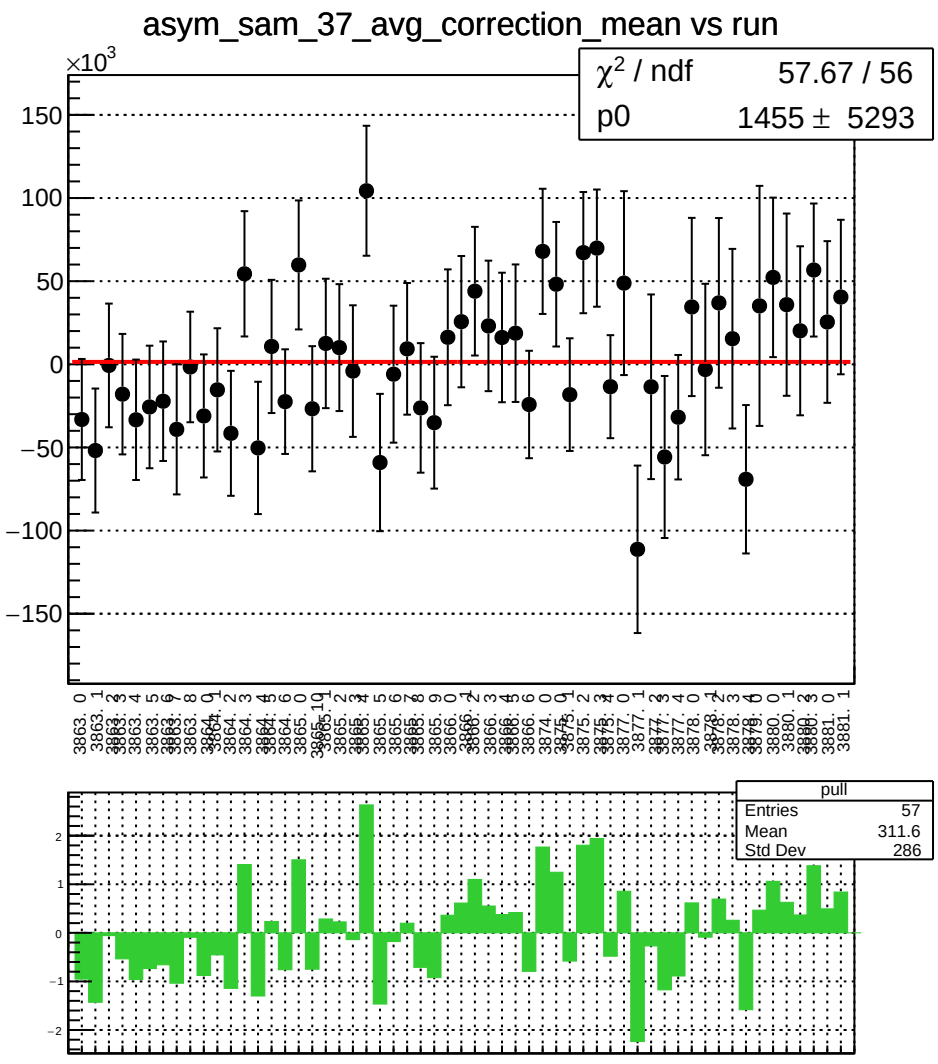

pull1D
Entries 57
Mean 0.024
Std Dev 1.001

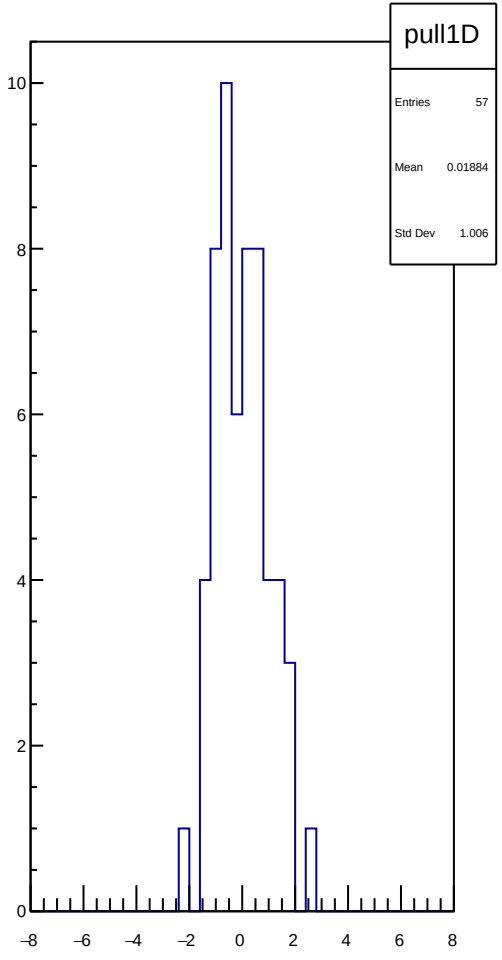

asym_sam_26_avg_correction_rms vs run
χ² / ndf 2.438e+04 / 56
p0 2301 ± 2.232
3200
3000
2800
2600
2400
2200
2000

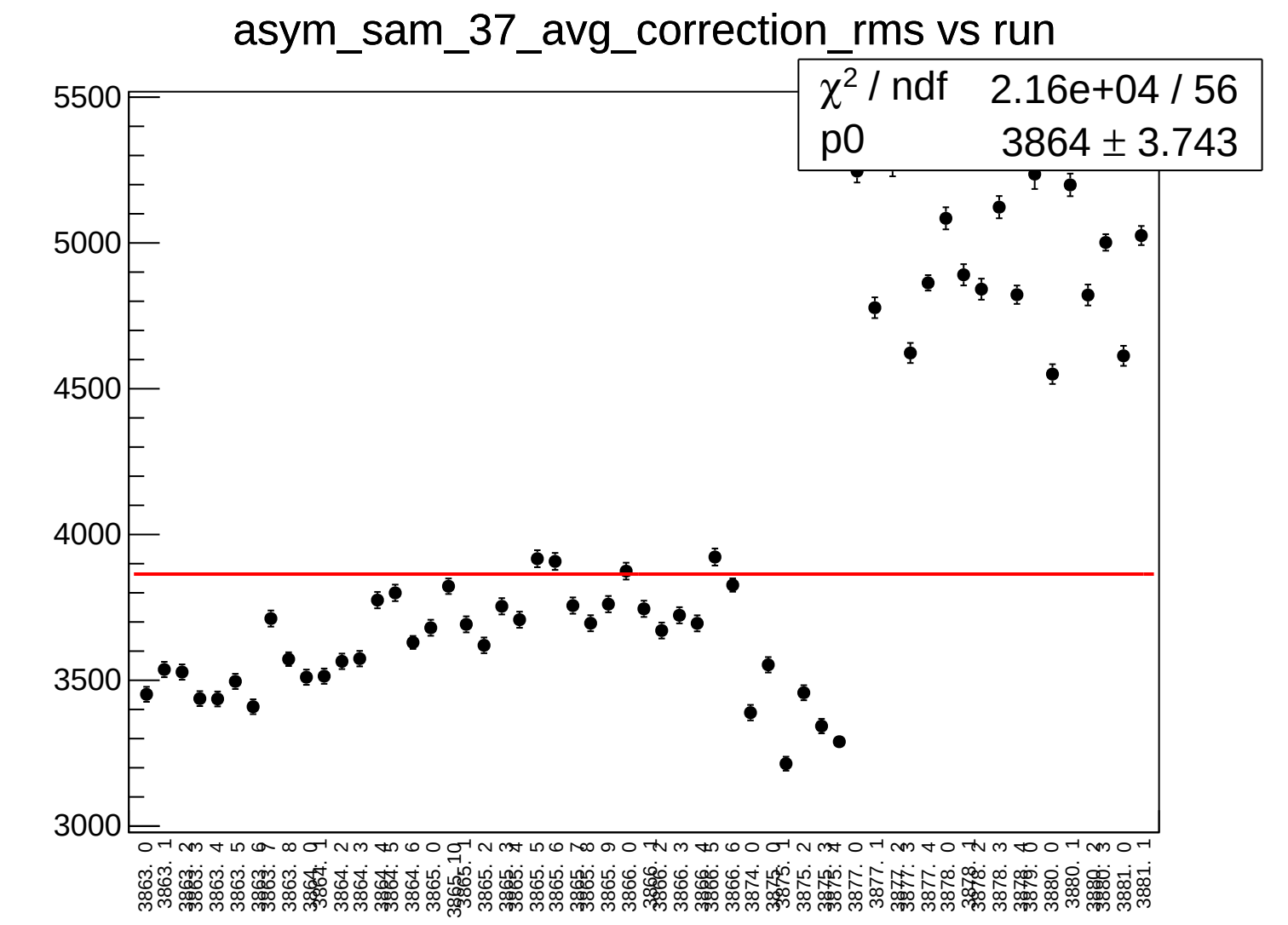

reg_asym_sam_37_avg_mean vs run
χ² / ndf 48.25 / 56
p0 247.2 ± 510.8
pull
Entries 57
Mean −111.4
Std Dev 131.6

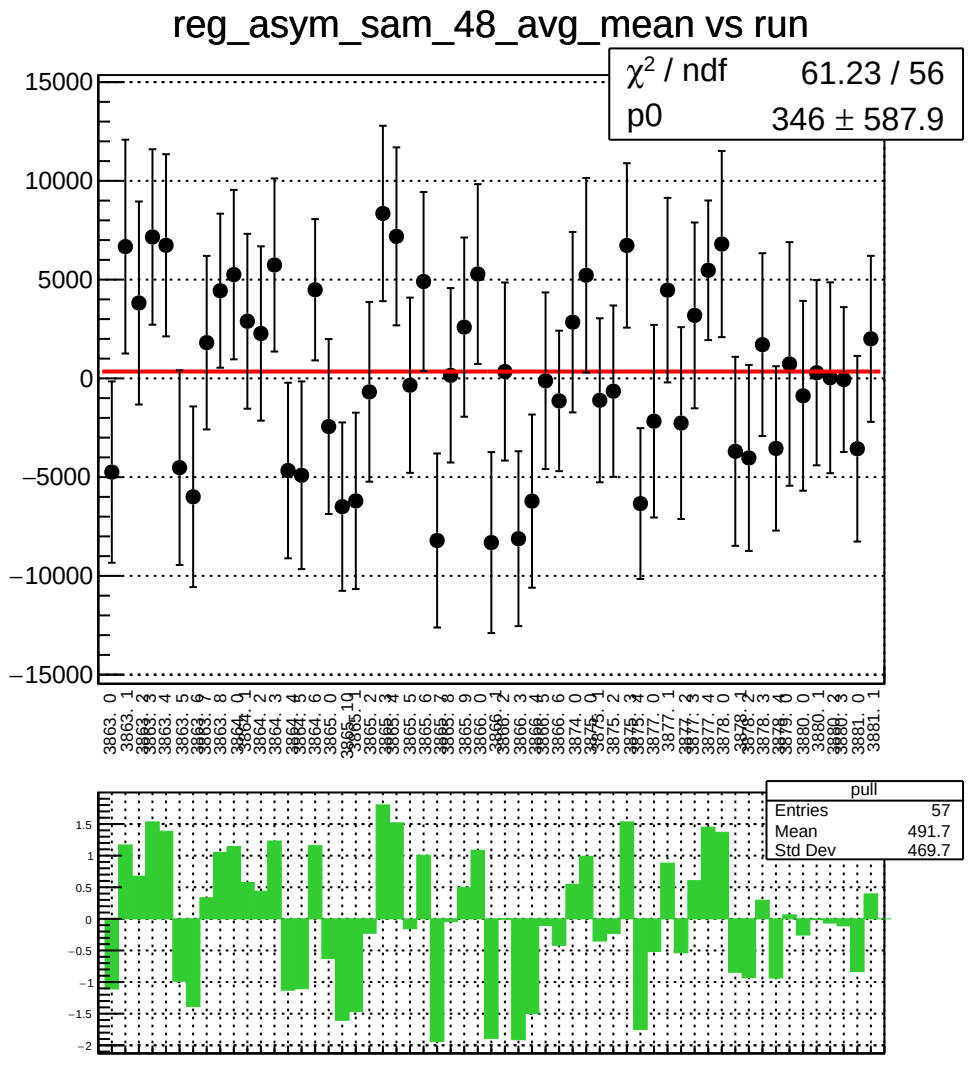

pull1D
Entries 57
Mean −0.008032
Std Dev 0.92

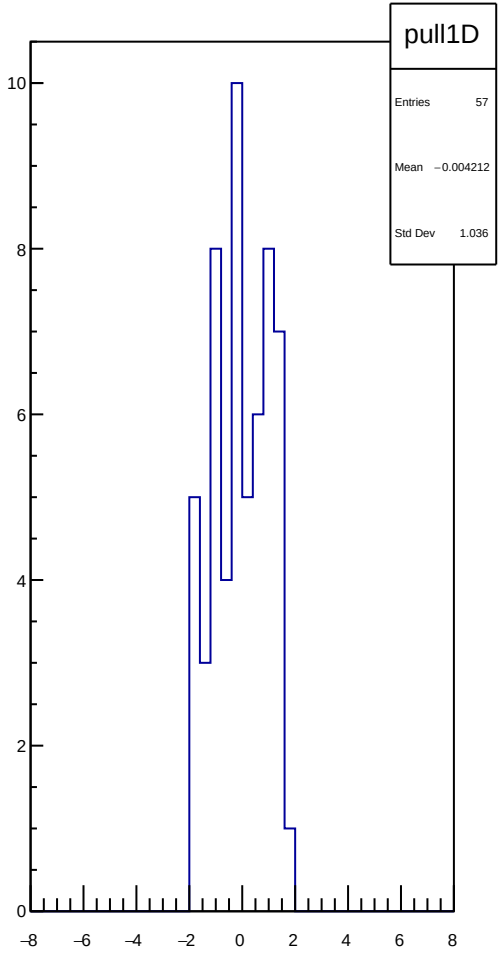

reg_asym_sam_37_avg_rms vs run
χ² / ndf 1.684e+04 / 56
p0 373.7 ± 0.3612
700
650
600
550
500
450
400
350
300

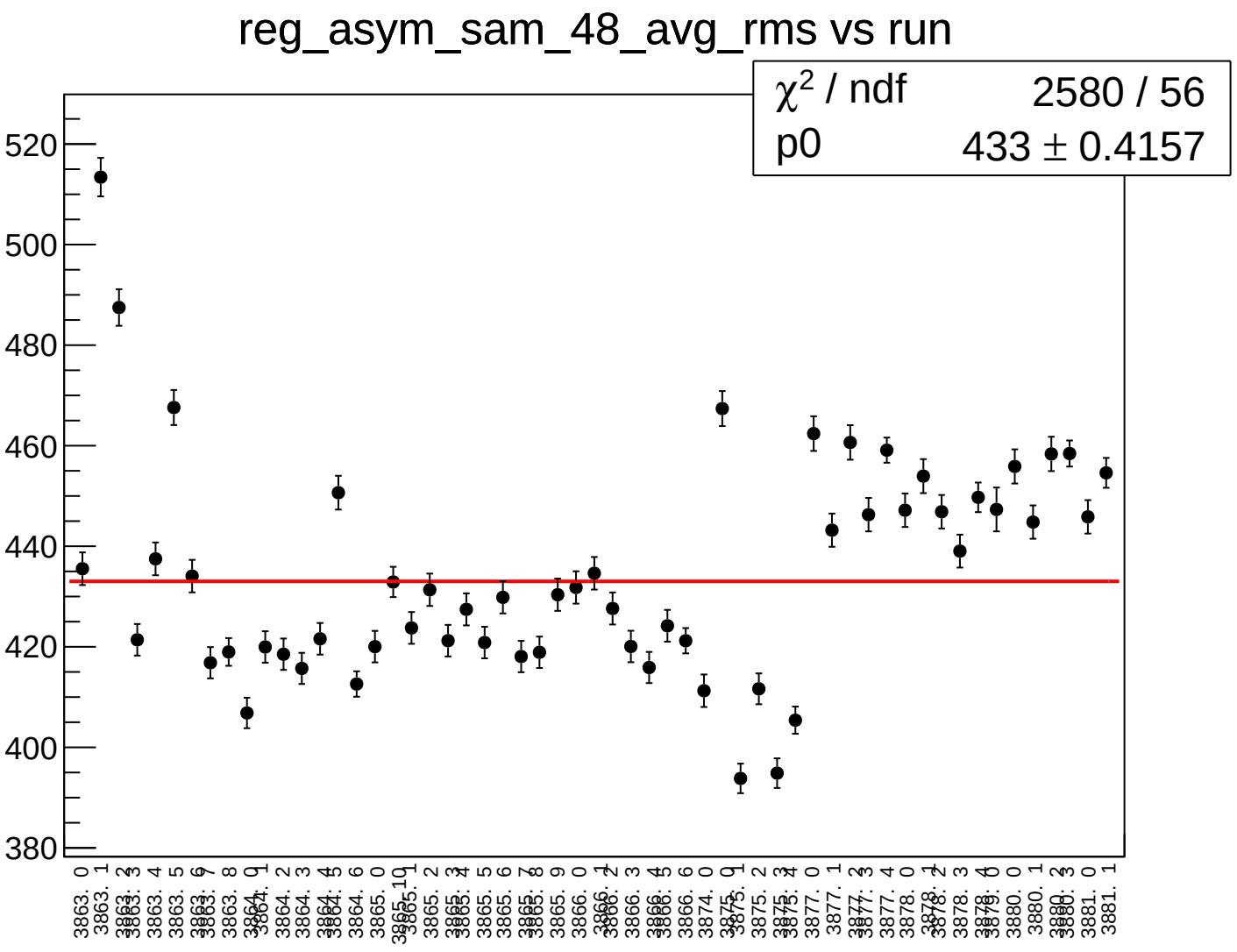

asym_sam_37_avg_correction_mean vs run
χ² / ndf 57.67 / 56
p0 1455 ± 5293
pull
Entries 57
Mean 311.6
Std Dev 286

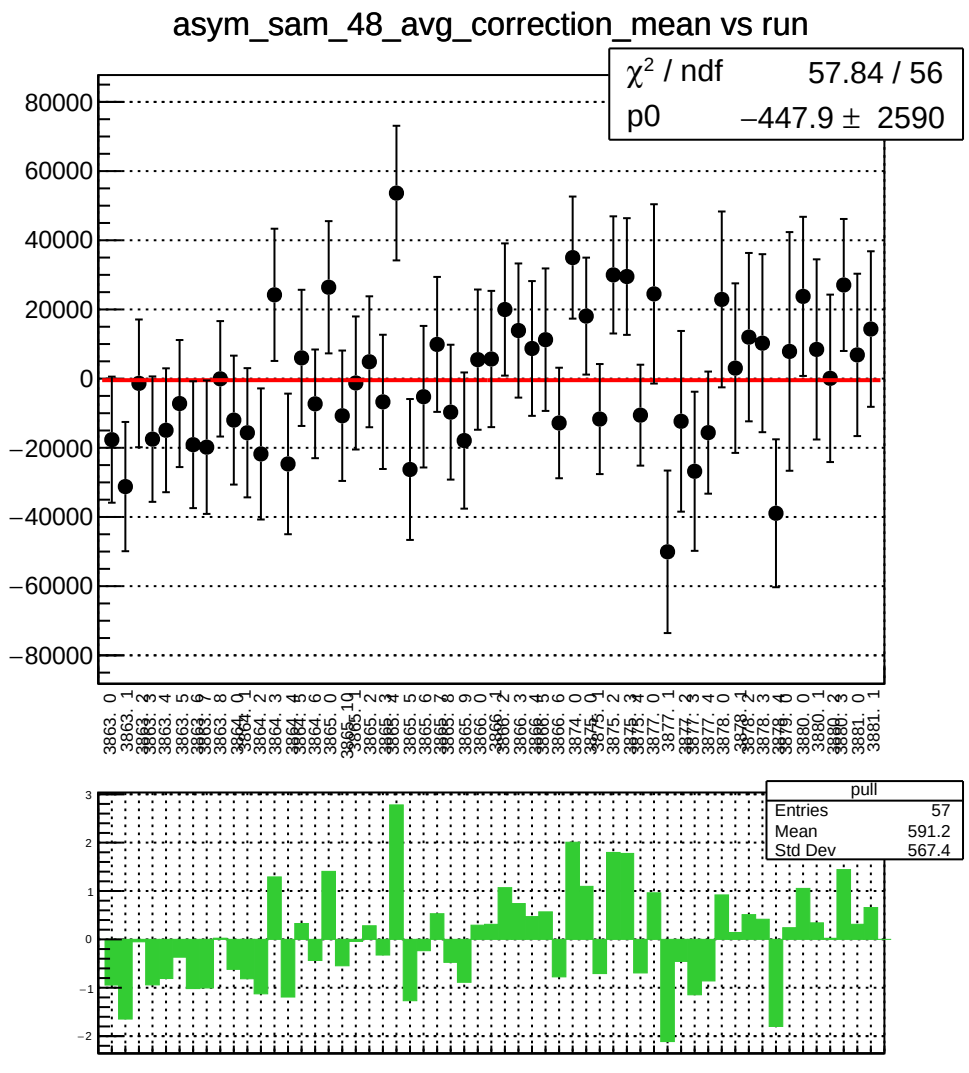

pull1D
Entries 57
Mean 0.01884
Std Dev 1.006

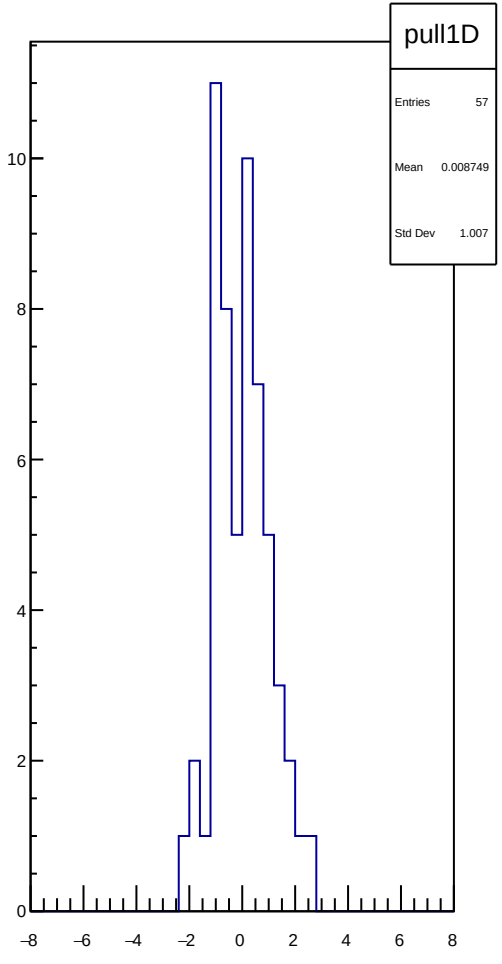

asym_sam_37_avg_correction_rms vs run
χ² / ndf 2.16e+04 / 56
p0 3864 ± 3.743
5500
5000
4500
4000
3500
3000

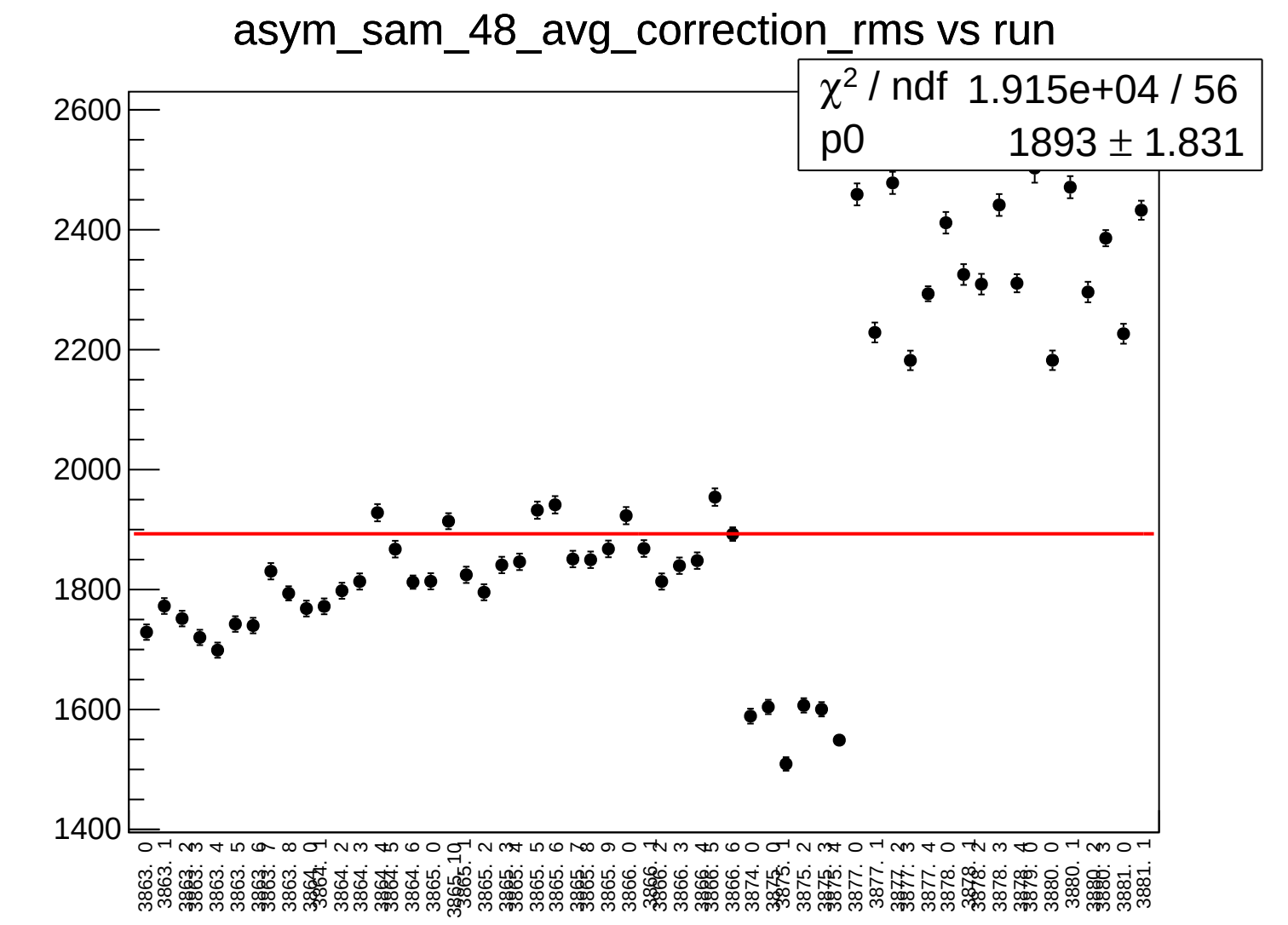

reg_asym_sam_48_avg_mean vs run
χ² / ndf 61.23 / 56
p0 346 ± 587.9
pull
Entries 57
Mean 491.7
Std Dev 469.7

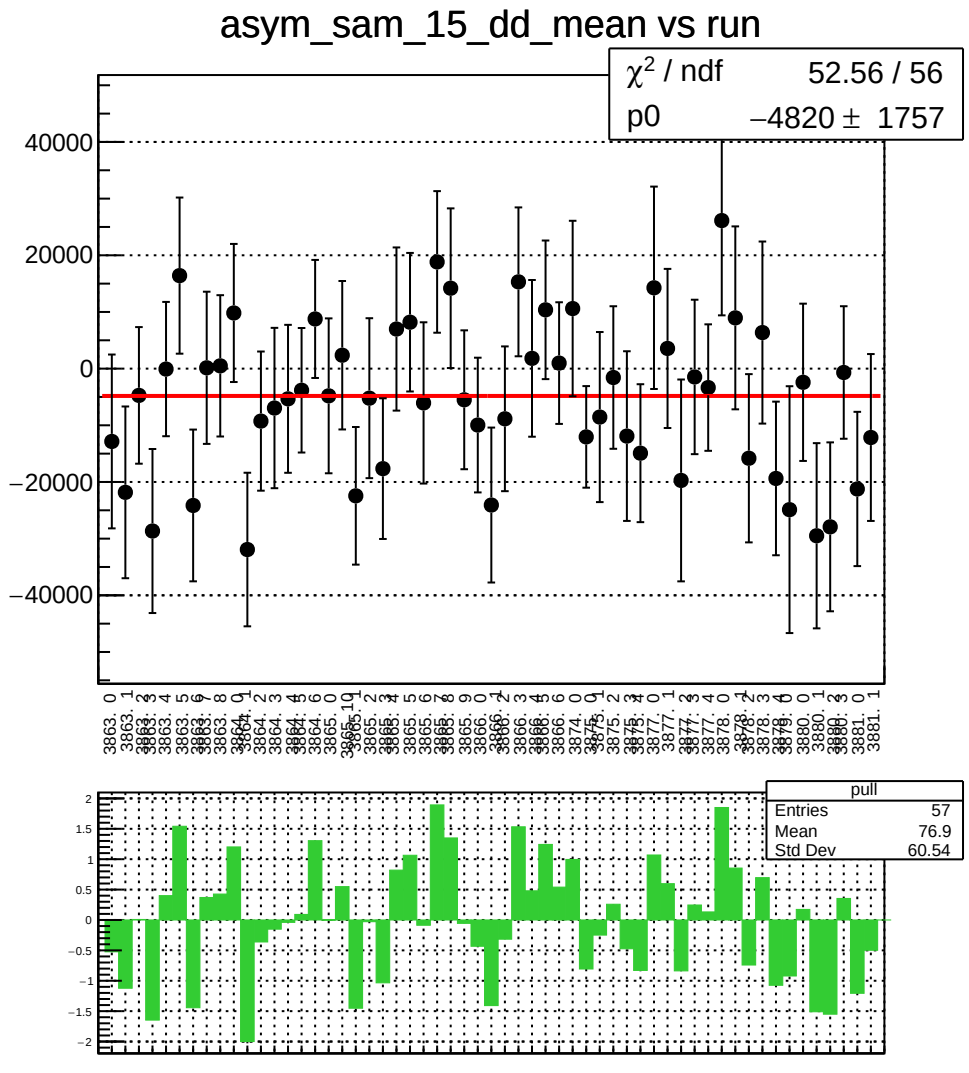

pull1D
Entries 57
Mean −0.004212
Std Dev 1.036

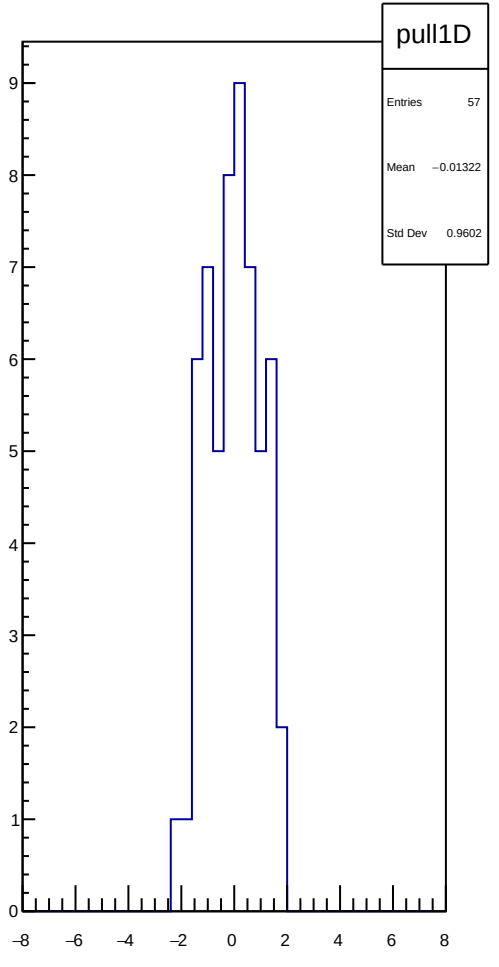

reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 2580 / 56
p0 433 ± 0.4157
520
500
480
460
440
420
400
380

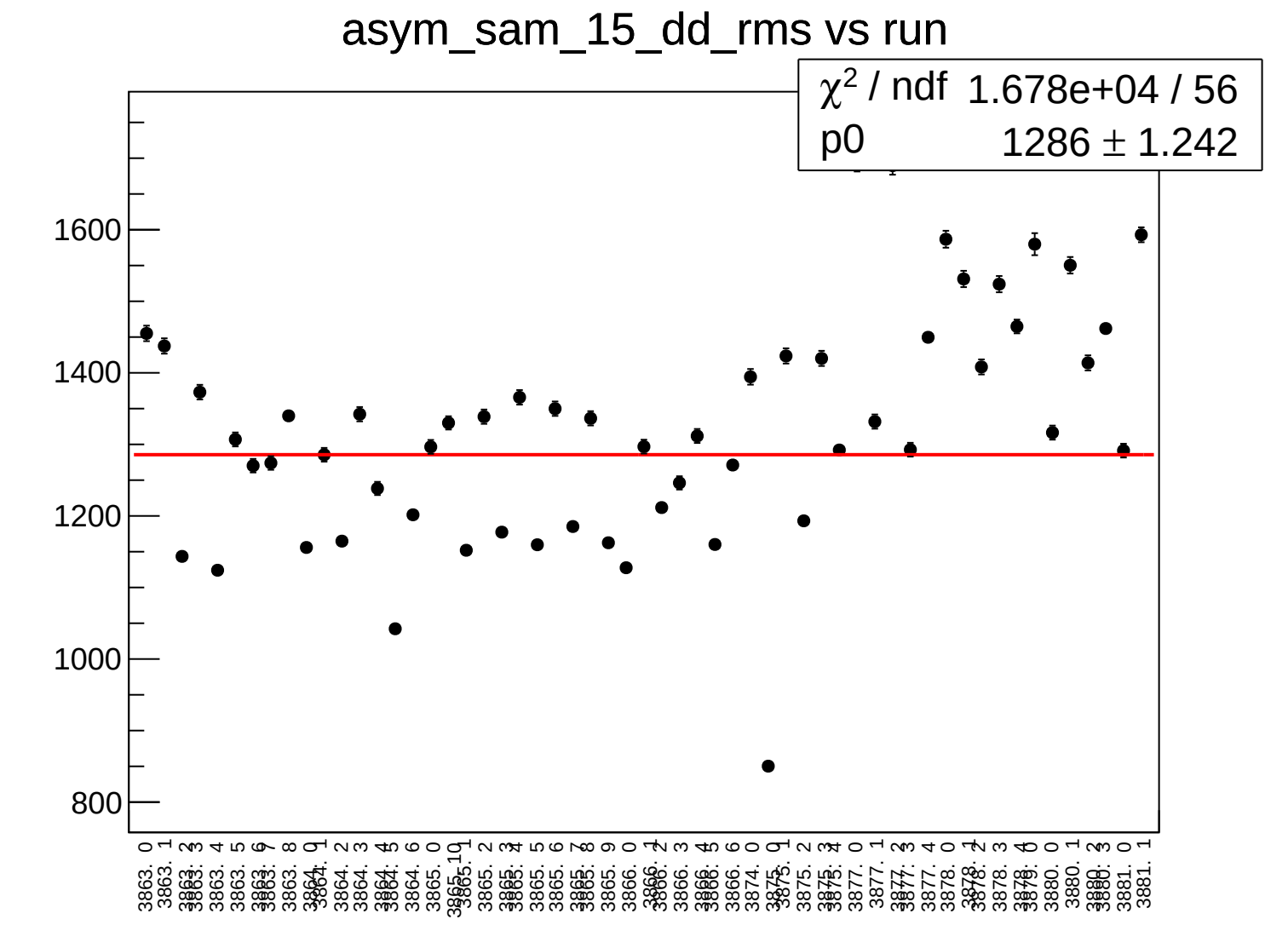

asym_sam_48_avg_correction_mean vs run
χ² / ndf 57.84 / 56
p0 −447.9 ± 2590
pull
Entries 57
Mean 591.2
Std Dev 567.4

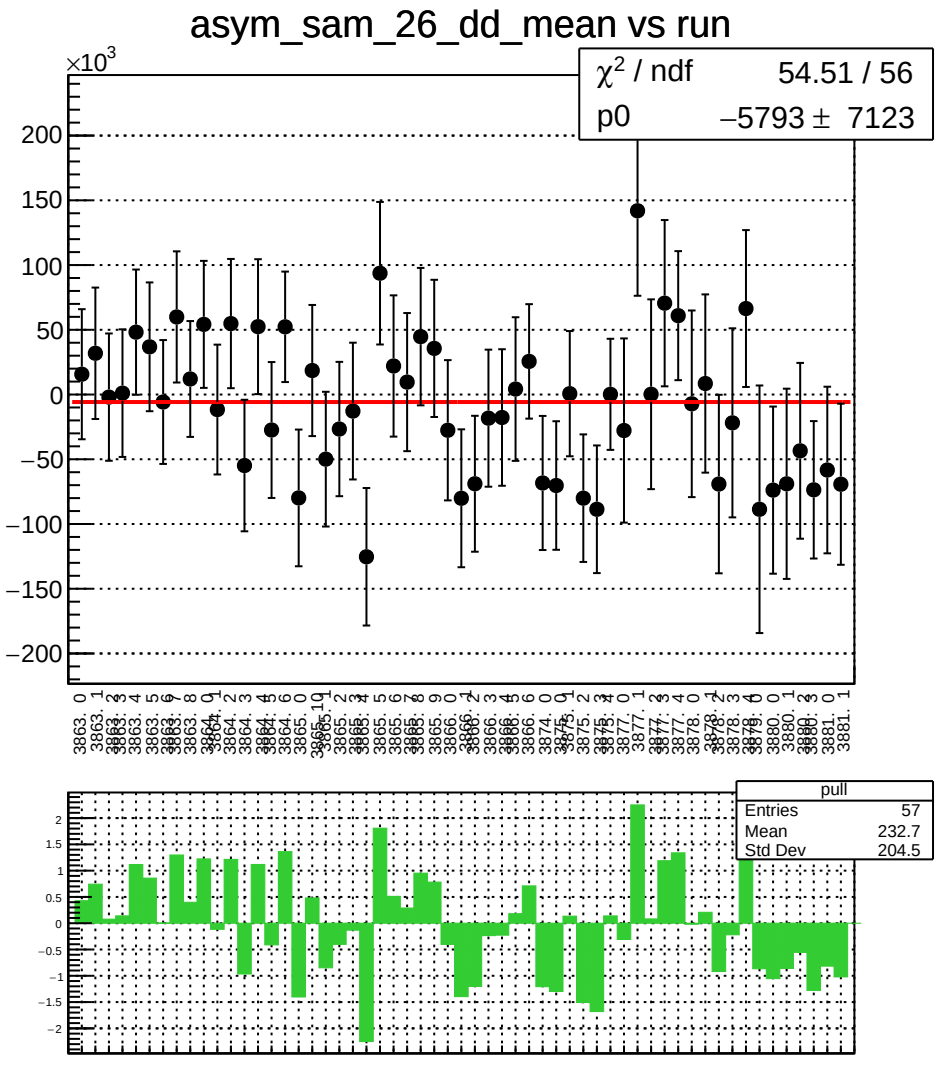

pull1D
Entries 57
Mean 0.008749
Std Dev 1.007

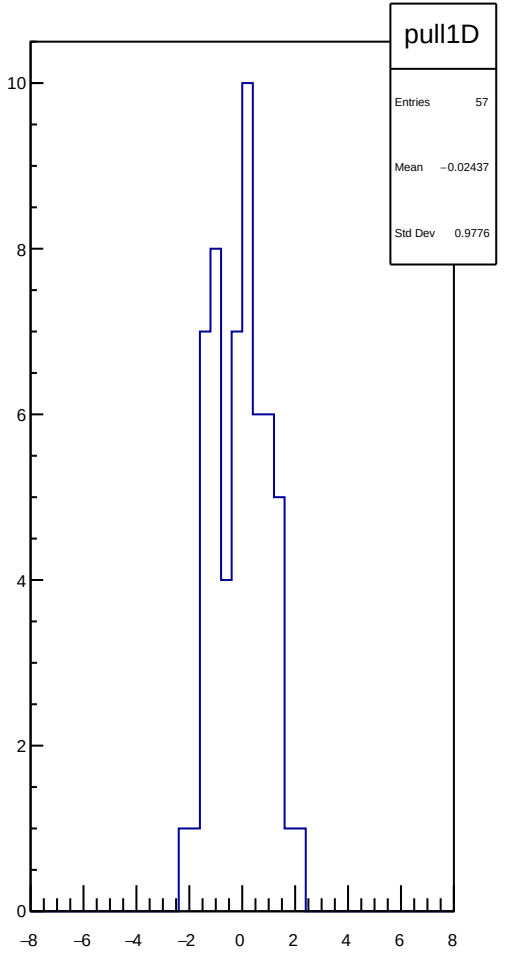

asym_sam_48_avg_correction_rms vs run
χ² / ndf 1.915e+04 / 56
p0 1893 ± 1.831
2600
2400
2200
2000
1800
1600
1400

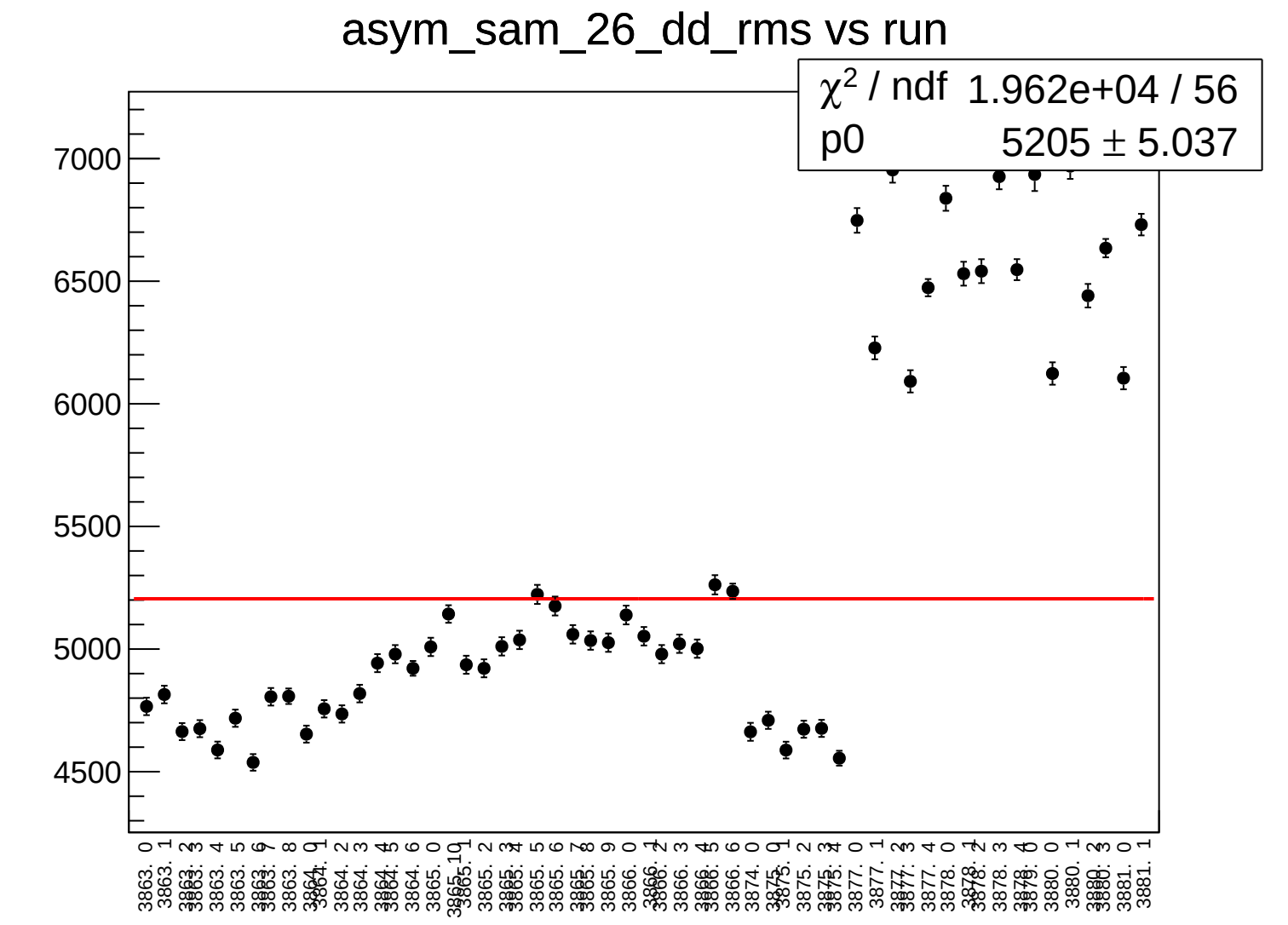

asym_sam_15_dd_mean vs run
χ² / ndf 52.56 / 56
p0 −4820 ± 1757
40000
20000
0
−20000
−40000
pull
Entries 57
Mean 76.9
Std Dev 60.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

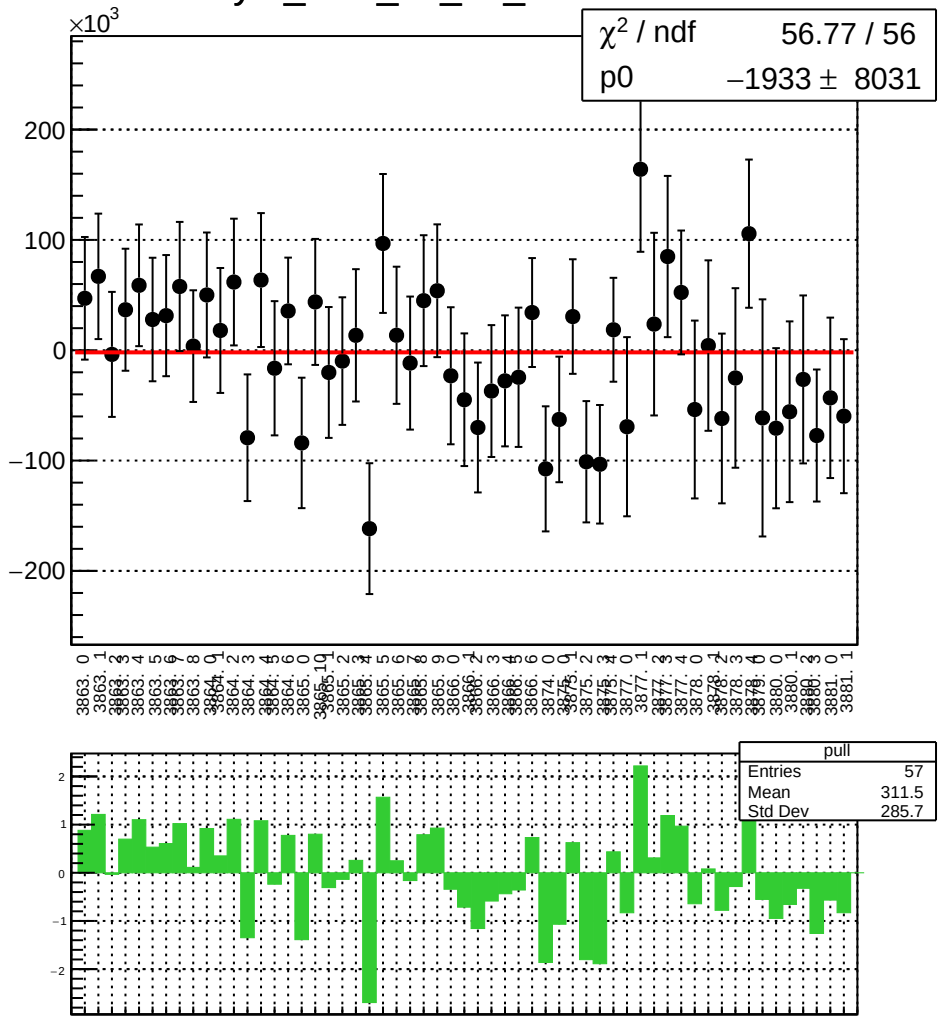

pull1D
Entries 57
Mean −0.01322
Std Dev 0.9602
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

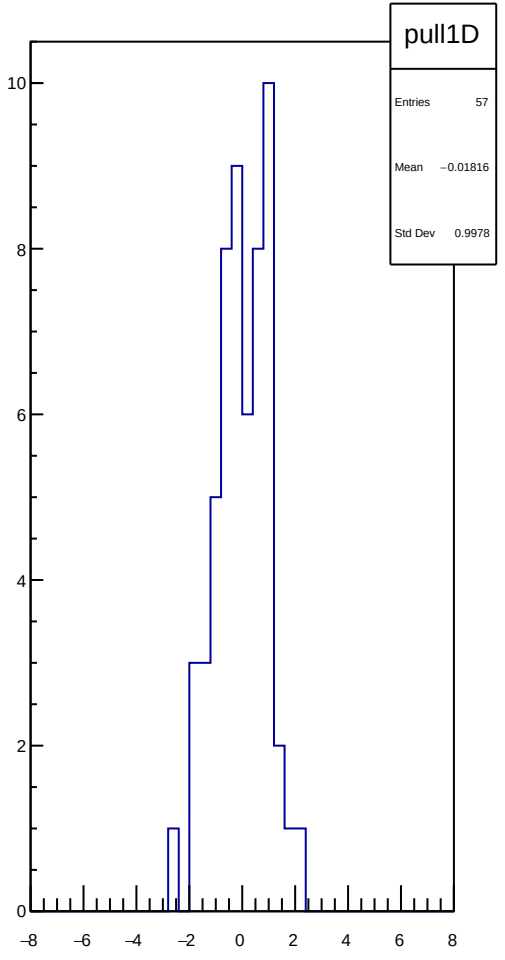

asym_sam_15_dd_rms vs run
χ² / ndf 1.678e+04 / 56
p0 1286 ± 1.242
1600
1400
1200
1000
800

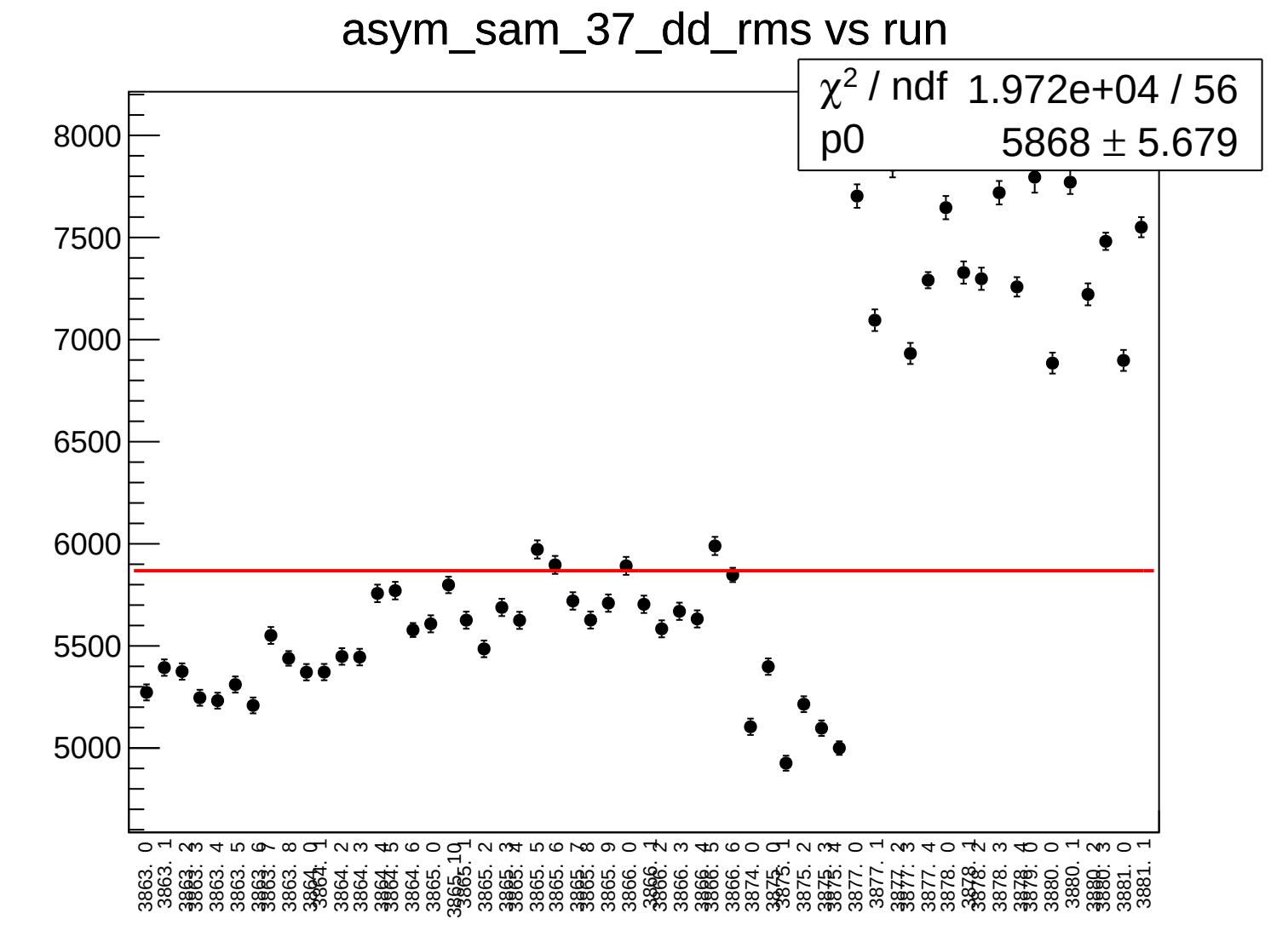

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 54.51 / 56
p0 −5793 ± 7123
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 57
Mean 232.7
Std Dev 204.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

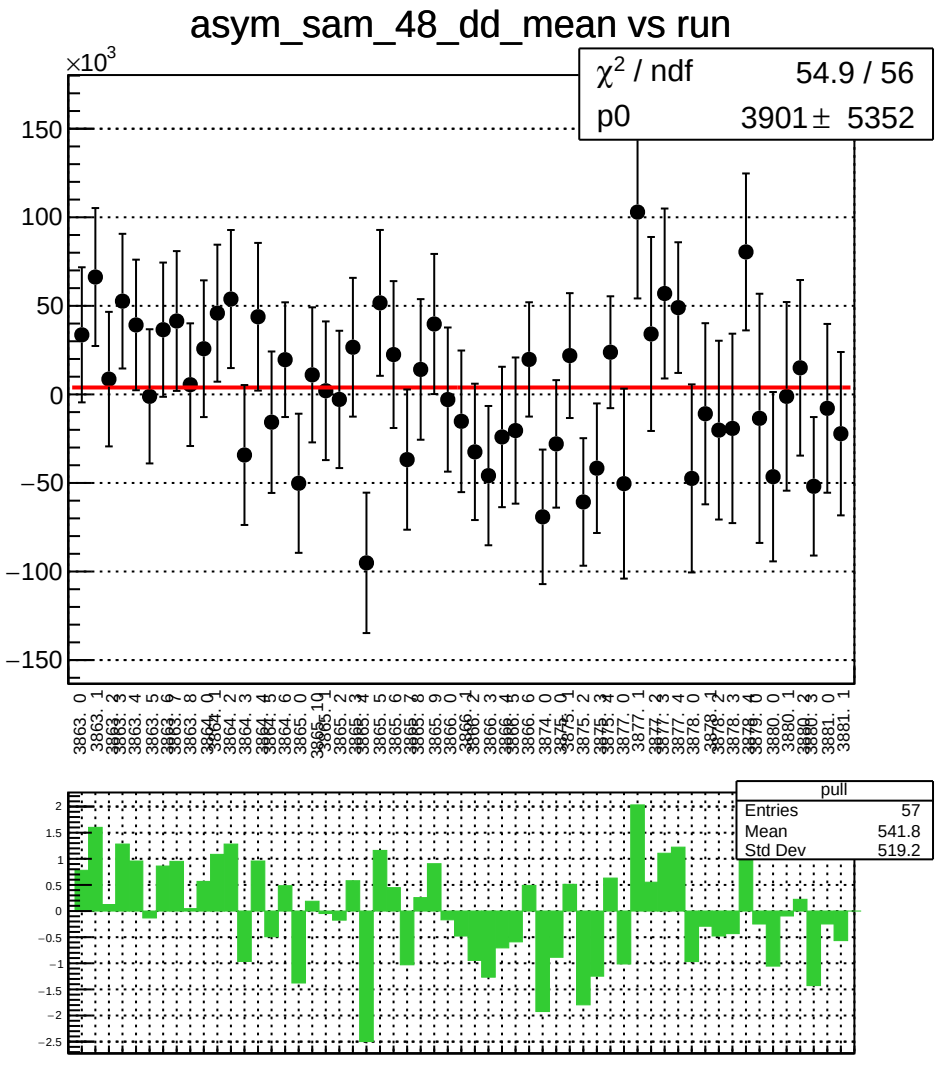

pull1D
Entries 57
Mean −0.02437
Std Dev 0.9776
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

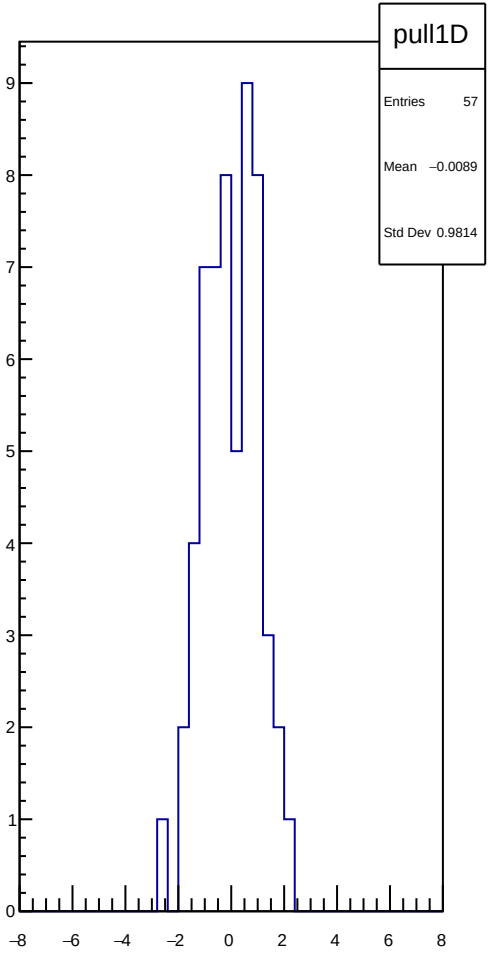

asym_sam_26_dd_rms vs run
χ² / ndf 1.962e+04 / 56
p0 5205 ± 5.037
7000
6500
6000
5500
5000
4500


asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 56.77 / 56
p0 −1933 ± 8031
200
100
0
−100
−200
pull
Entries 57
Mean 311.5
Std Dev 285.7
2
1
0
−1
−2

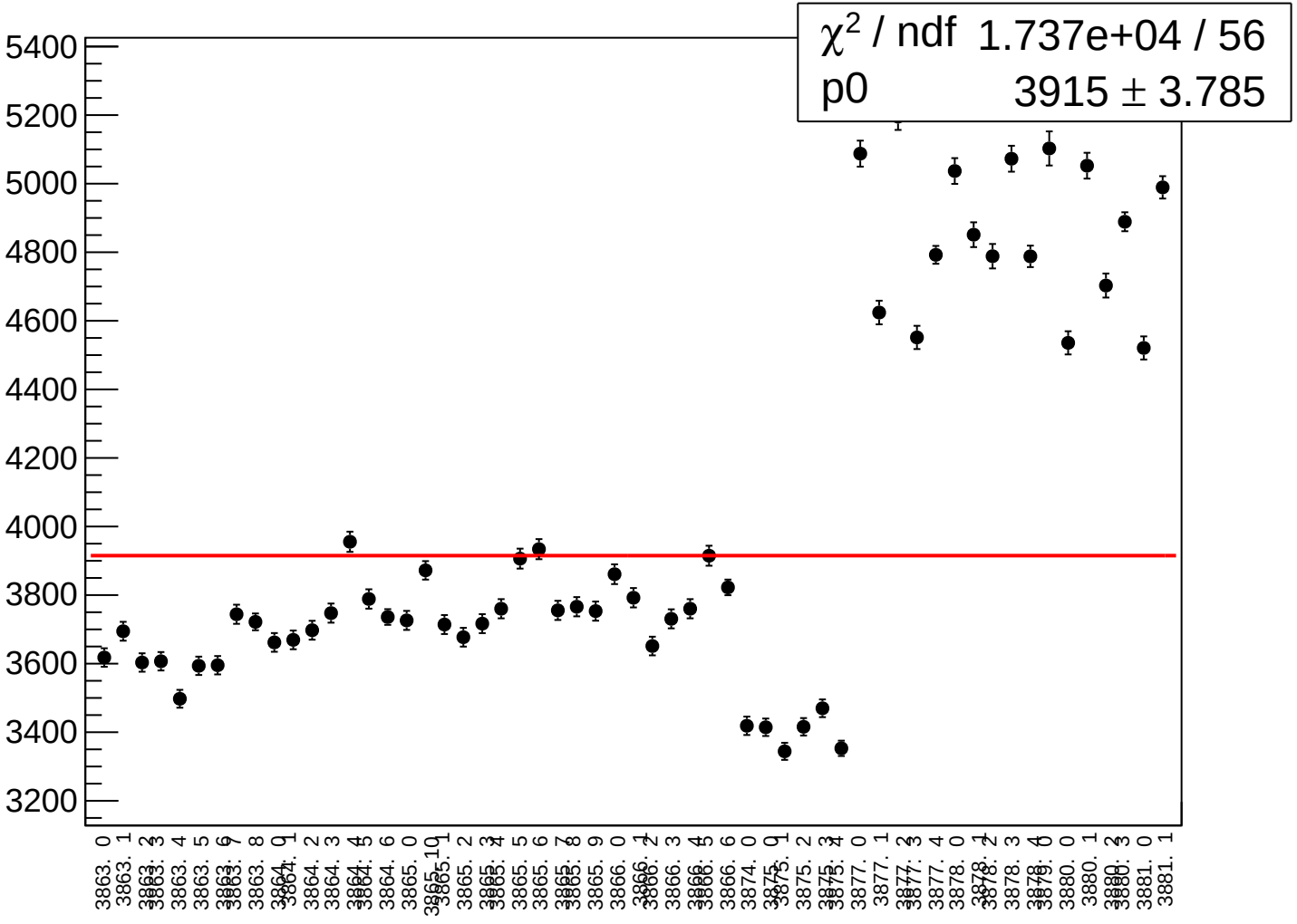

pull1D
Entries 57
Mean −0.01816
Std Dev 0.9978
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

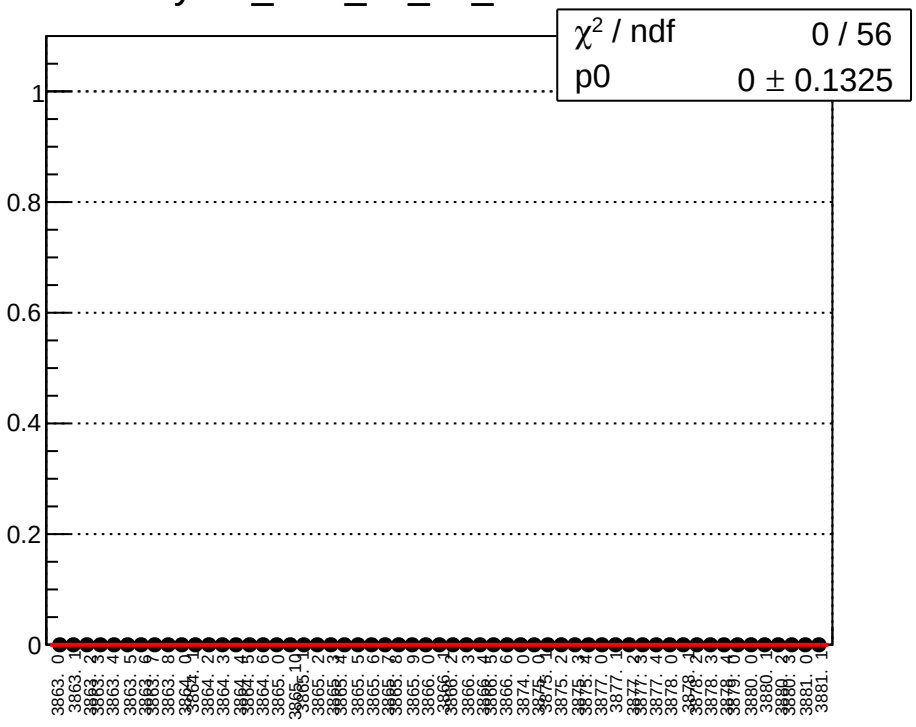

asym_sam_37_dd_rms vs run
χ² / ndf 1.972e+04 / 56
p0 5868 ± 5.679
8000
7500
7000
6500
6000
5500
5000

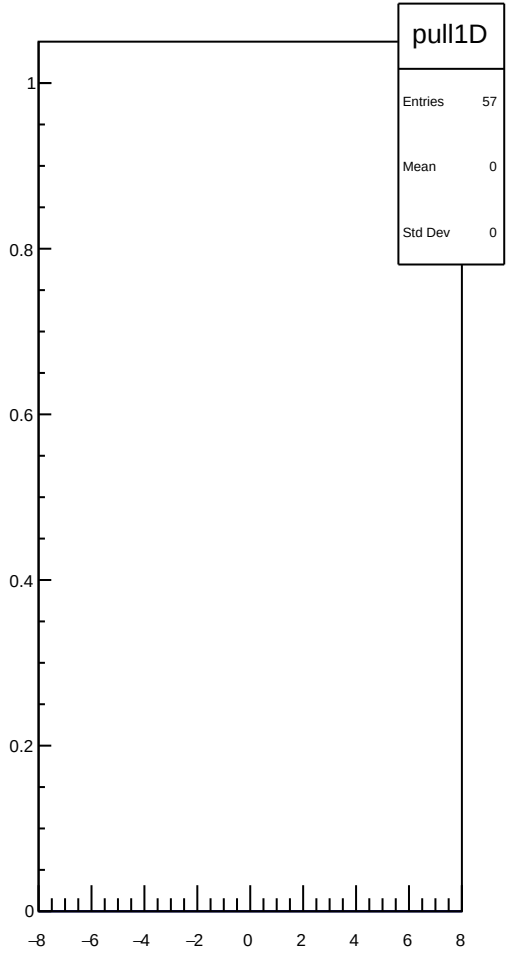

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 54.9 / 56
p0 3901 ± 5352
150
100
50
0
−50
−100
−150
pull
Entries 57
Mean 541.8
Std Dev 519.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

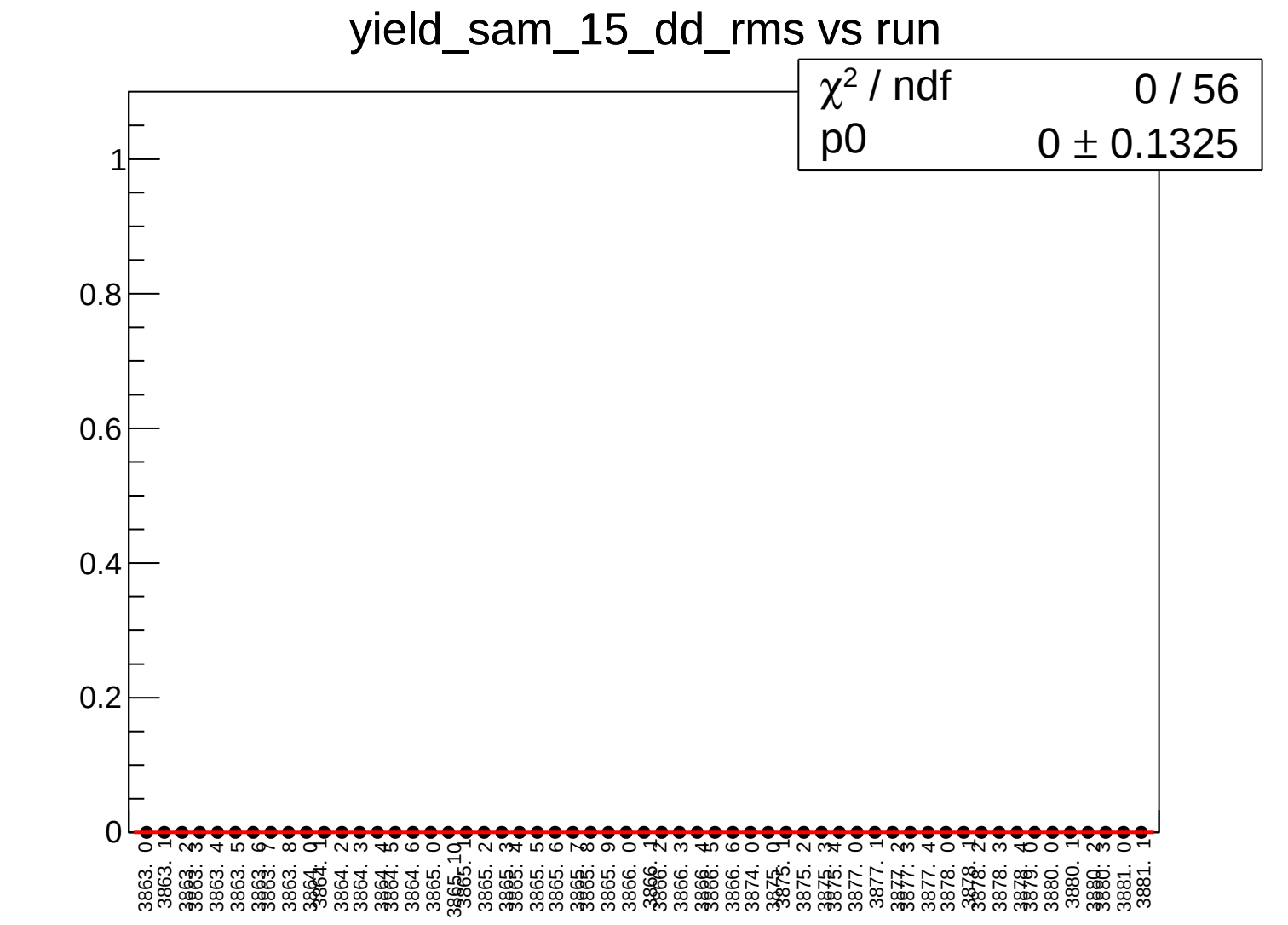

pull1D
Entries 57
Mean −0.0089
Std Dev 0.9814
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

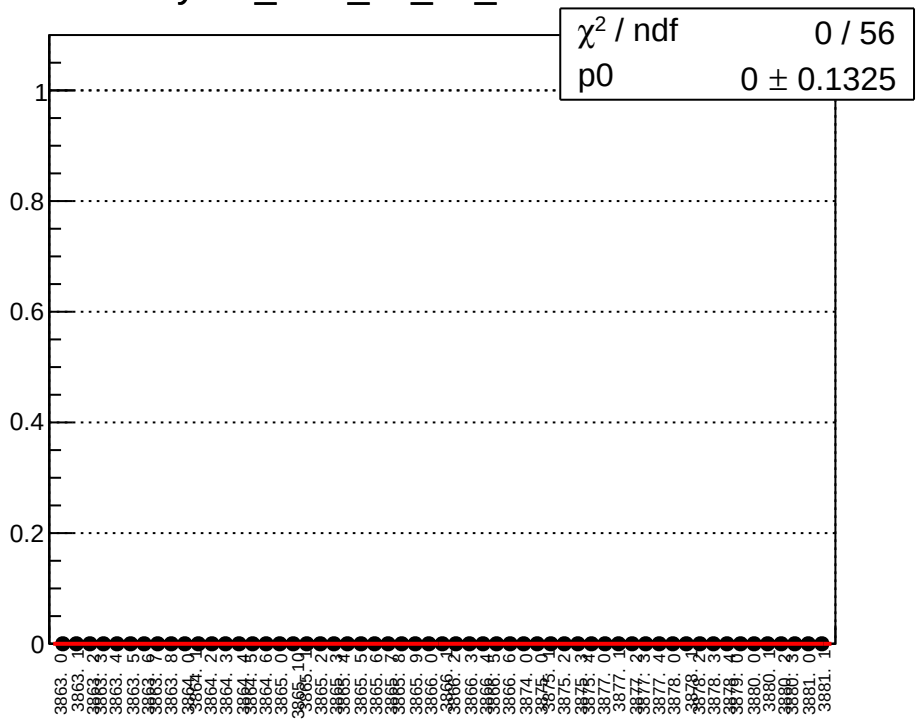
asym_sam_48_dd_rms vs run

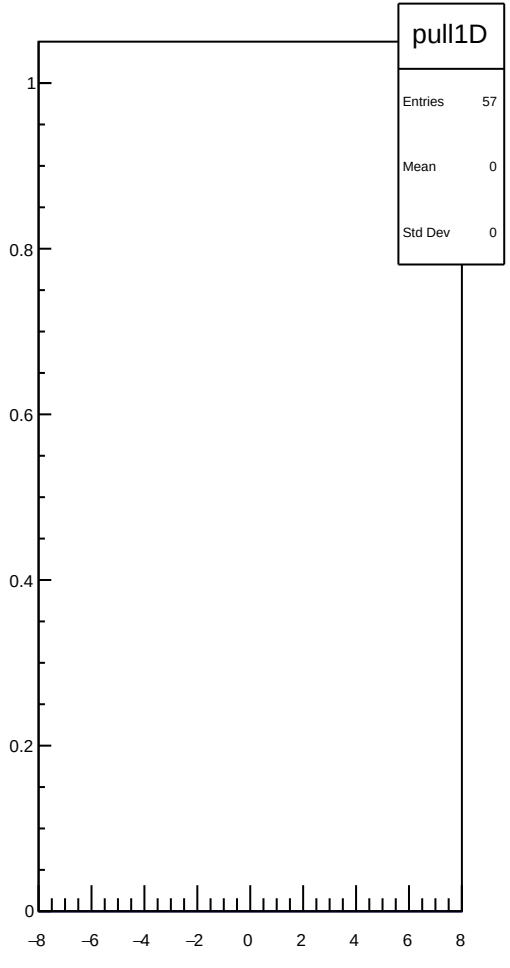


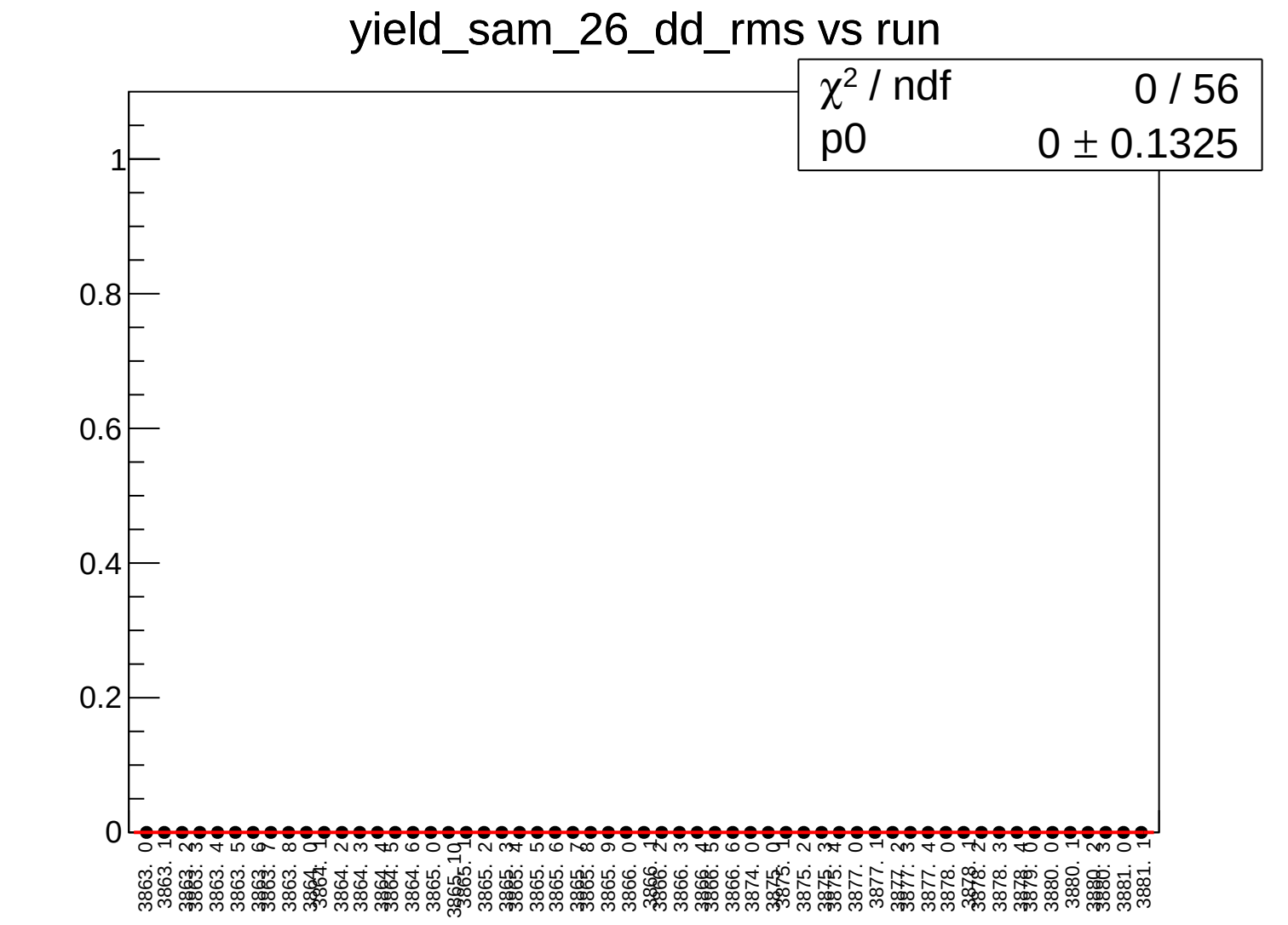

yield_sam_15_dd_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

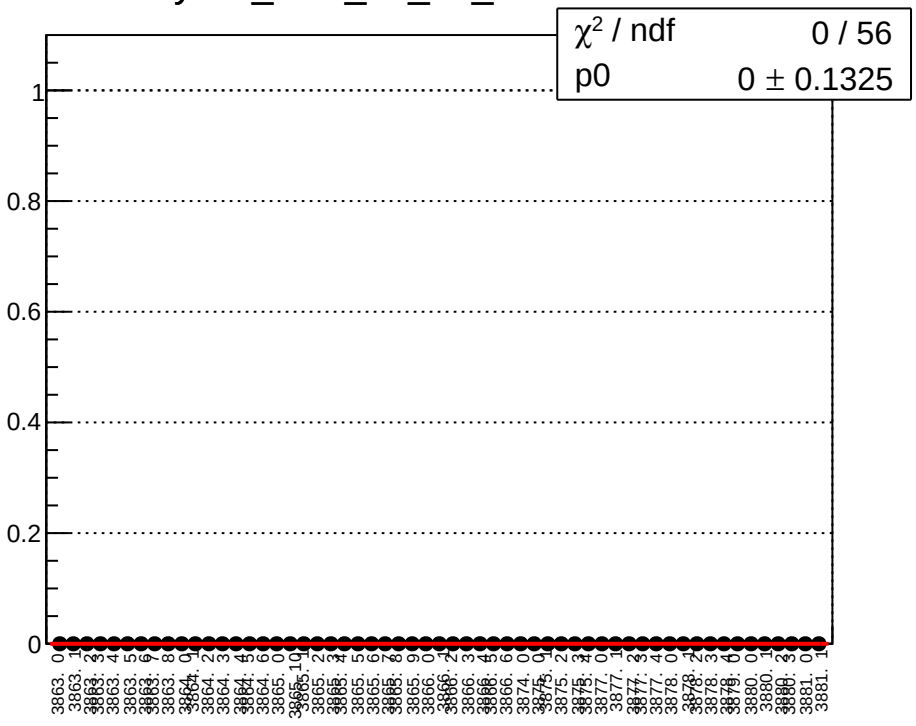

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

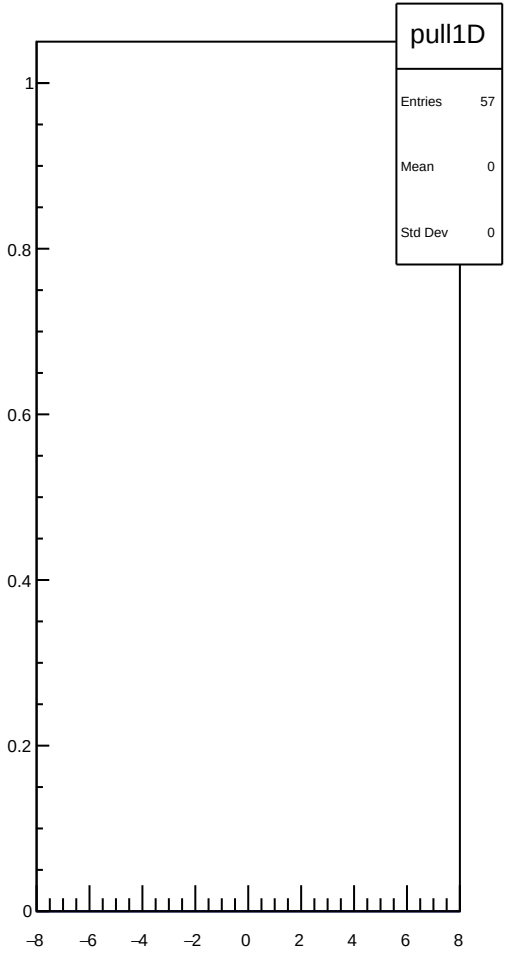

yield_sam_15_dd_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

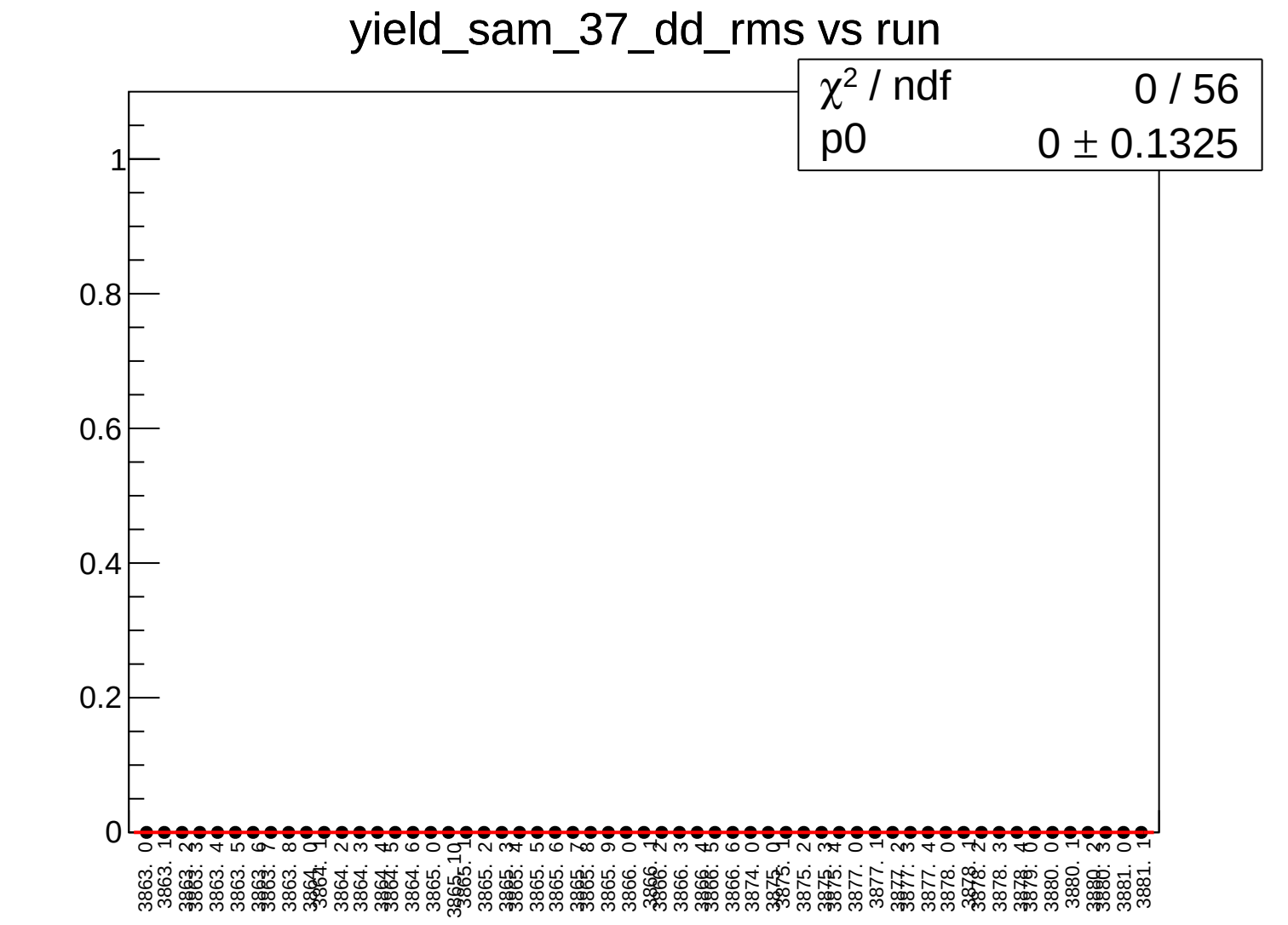

yield_sam_26_dd_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

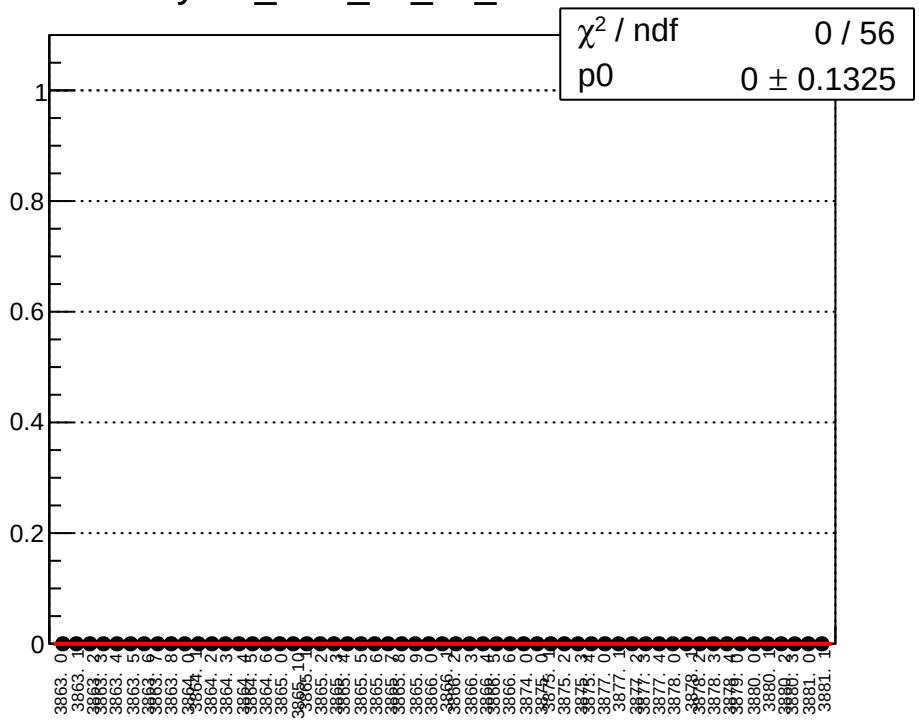

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

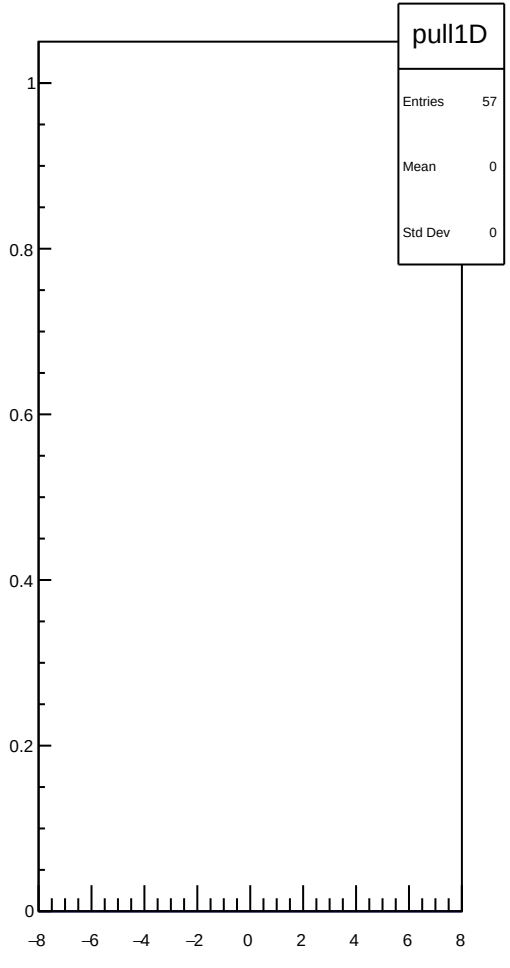

yield_sam_26_dd_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

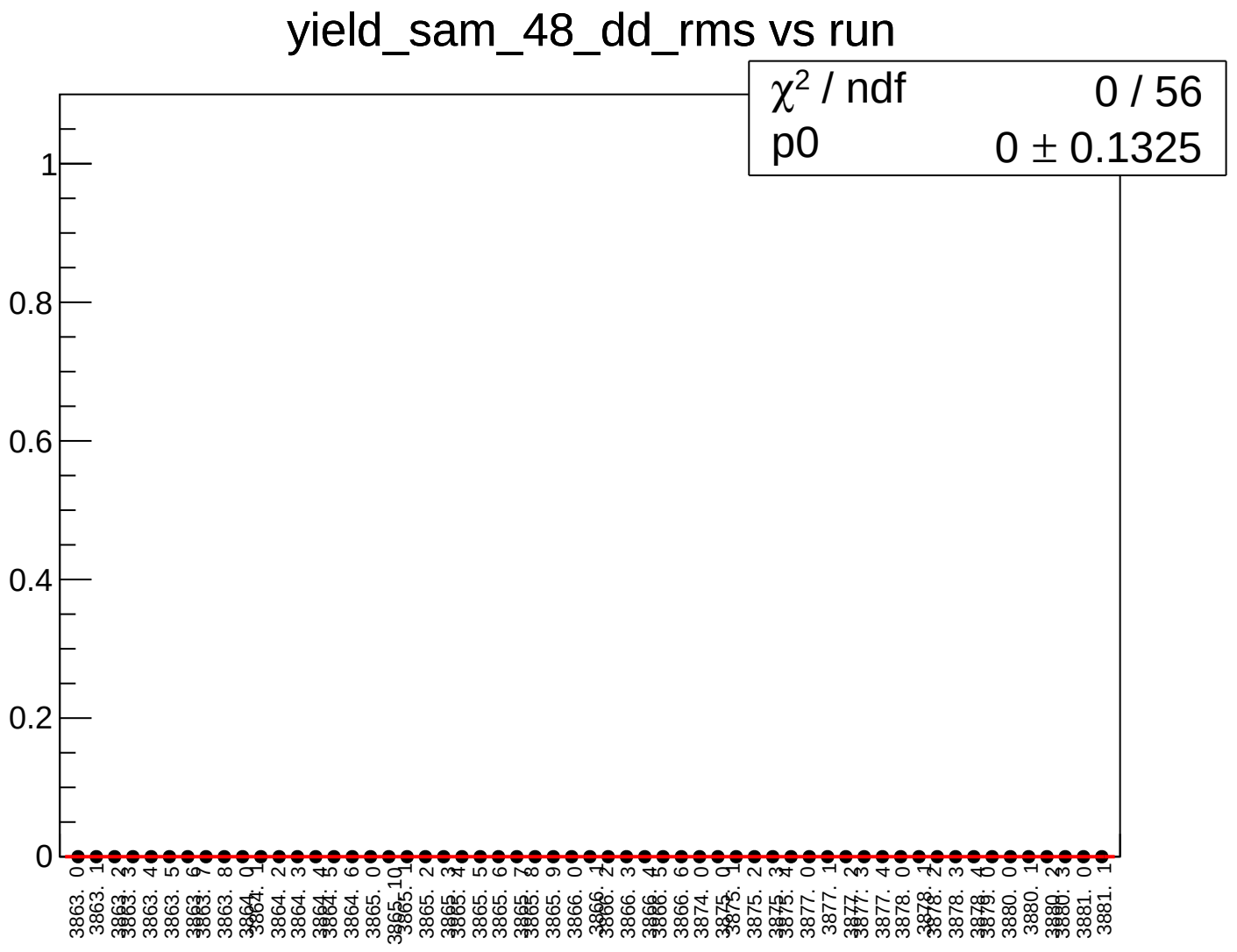

yield_sam_37_dd_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

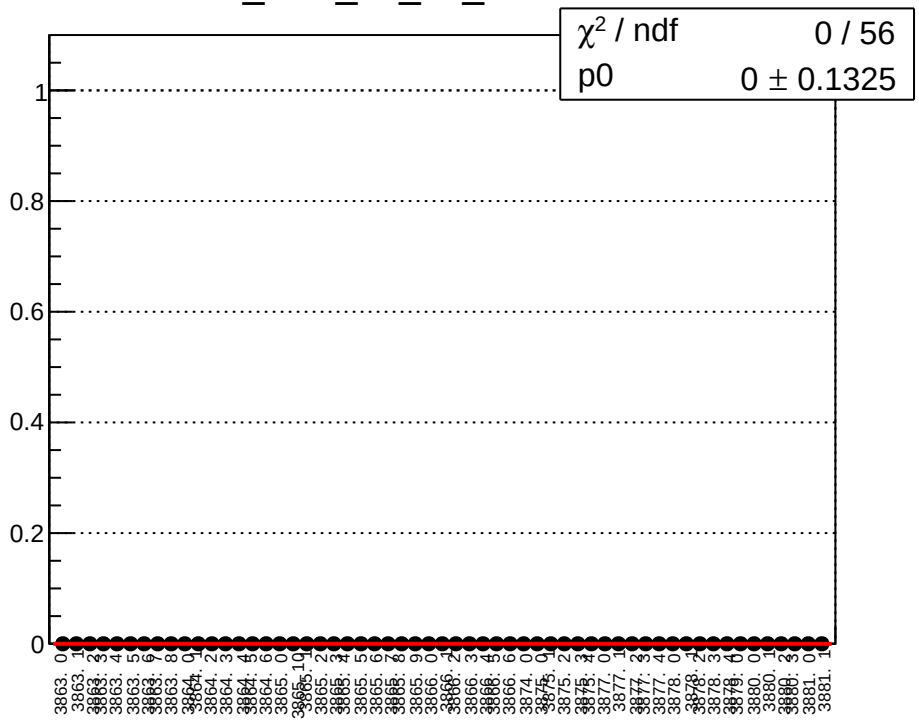

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

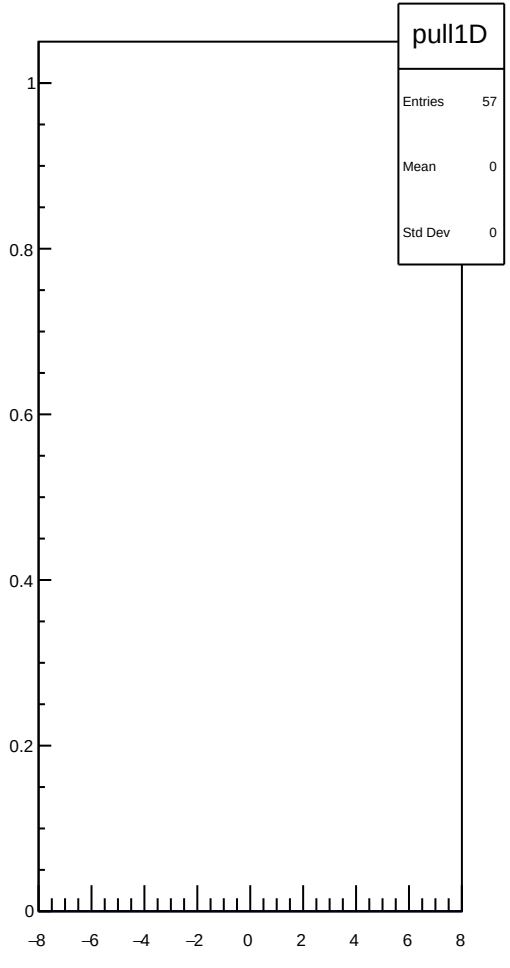

yield_sam_37_dd_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

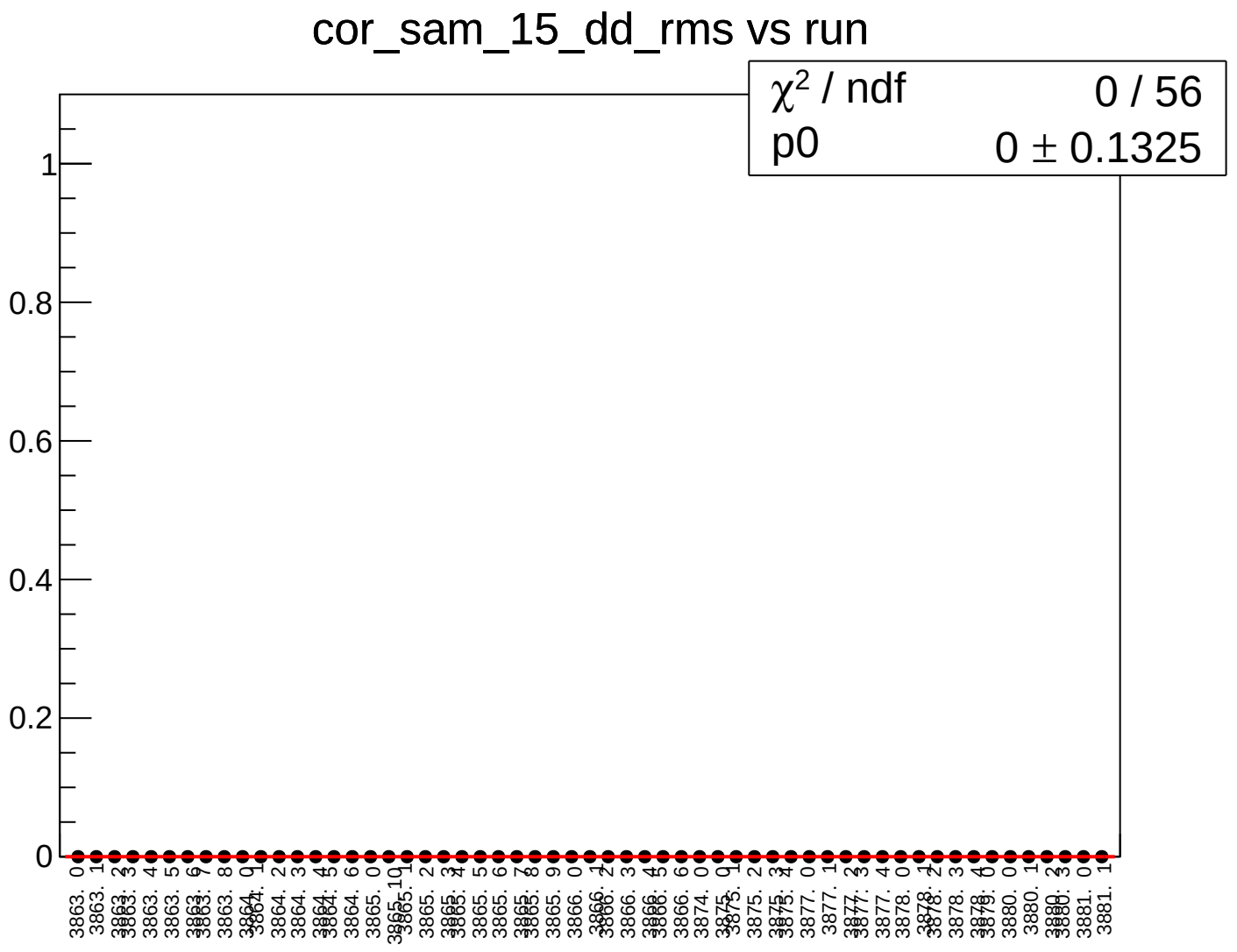

yield_sam_48_dd_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

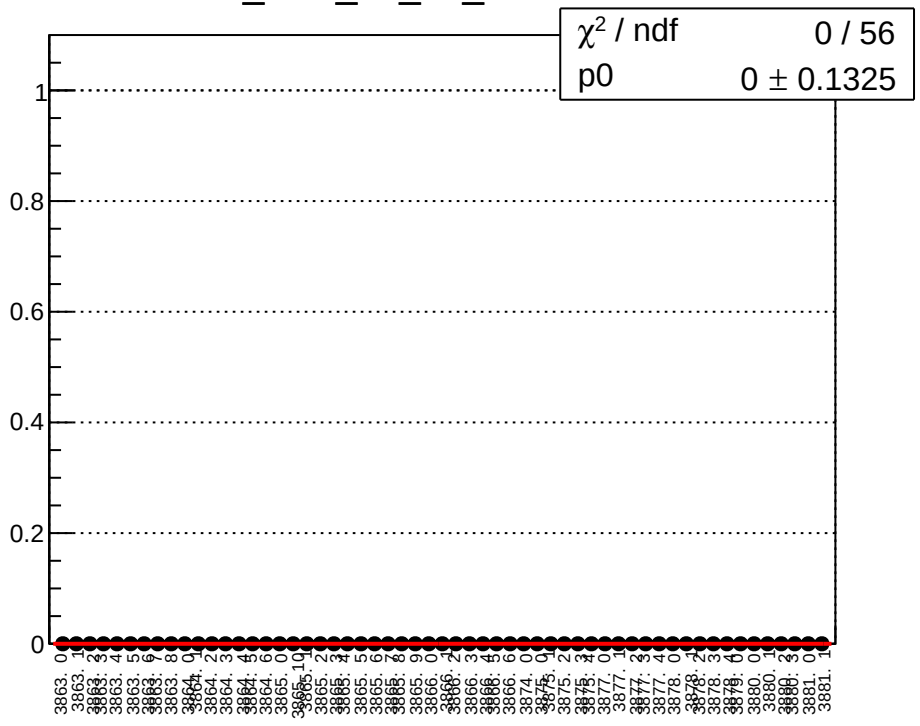

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

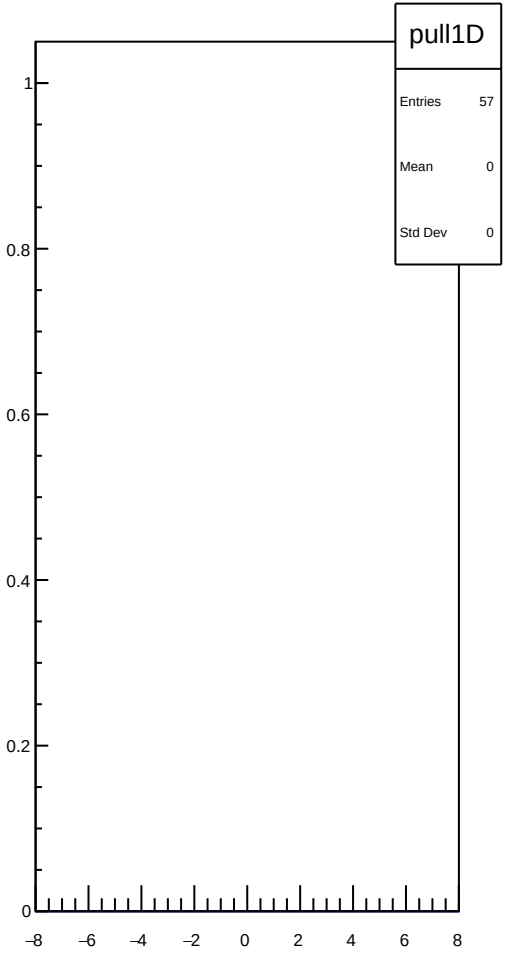

yield_sam_48_dd_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

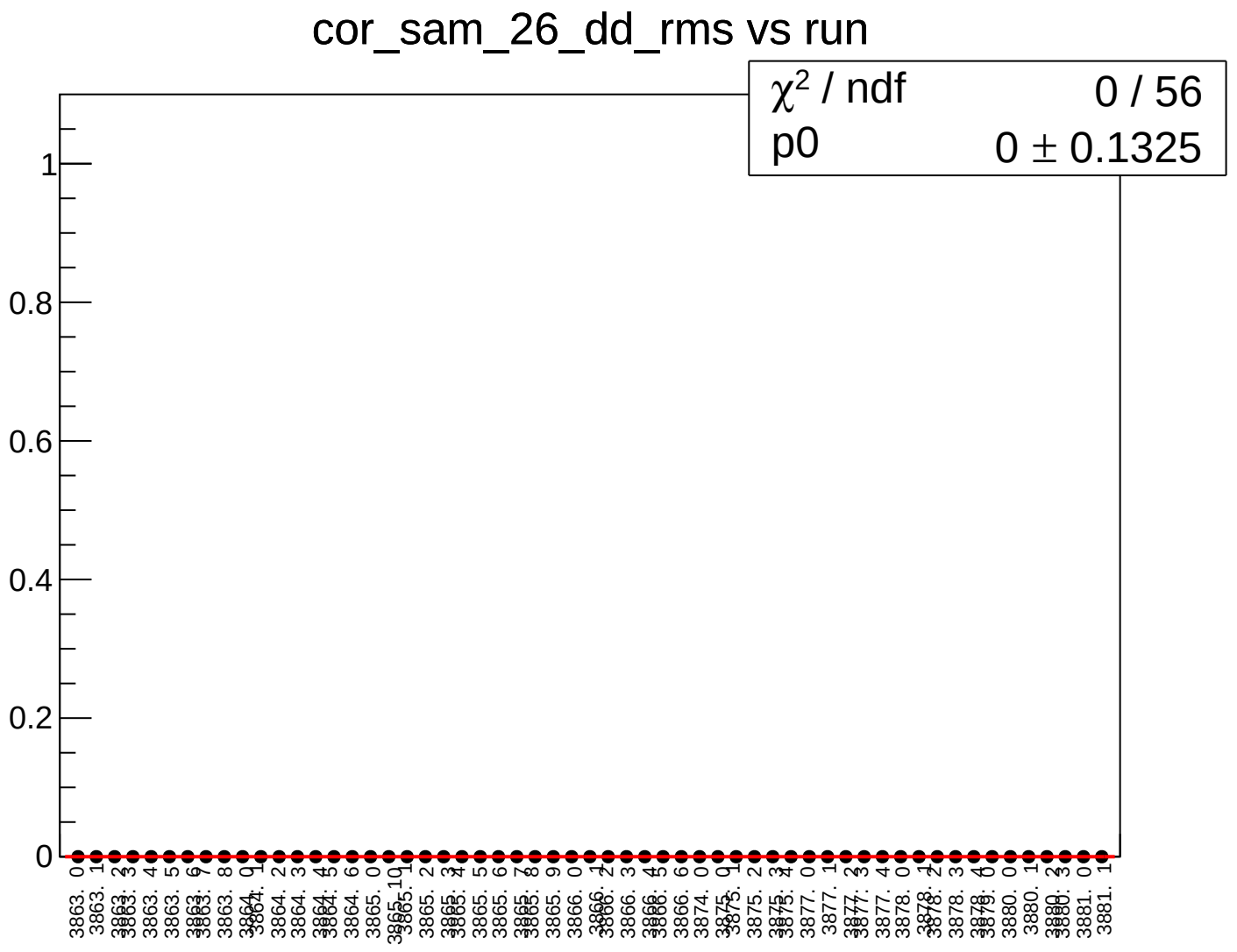

cor_sam_15_dd_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

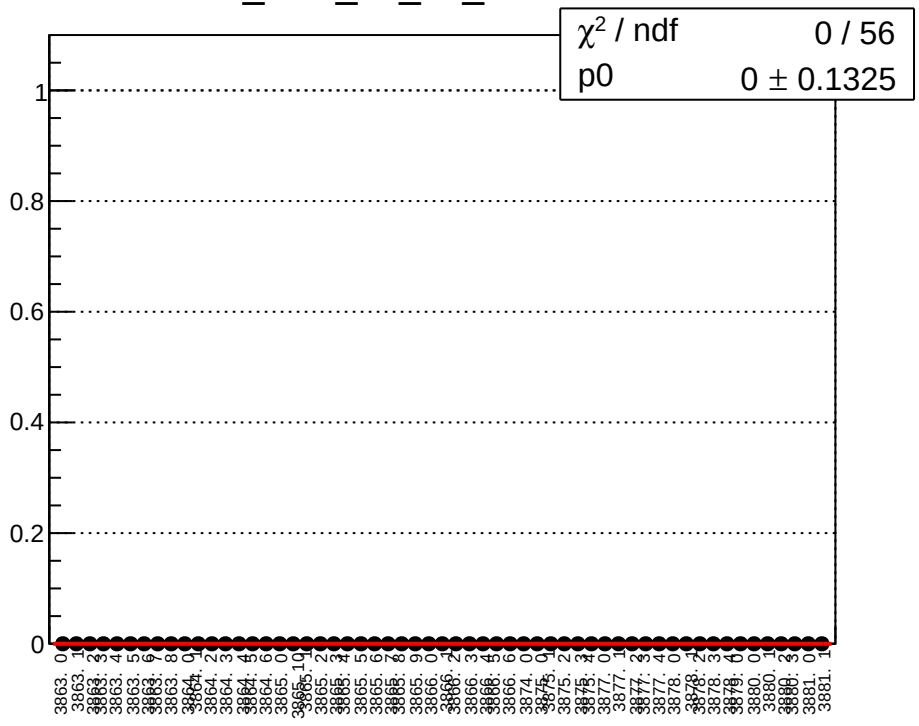

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

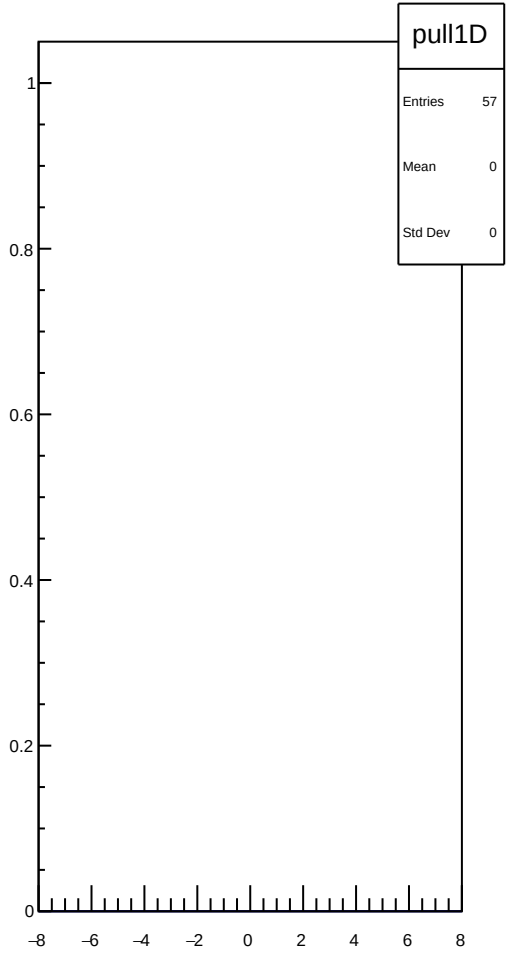

cor_sam_15_dd_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

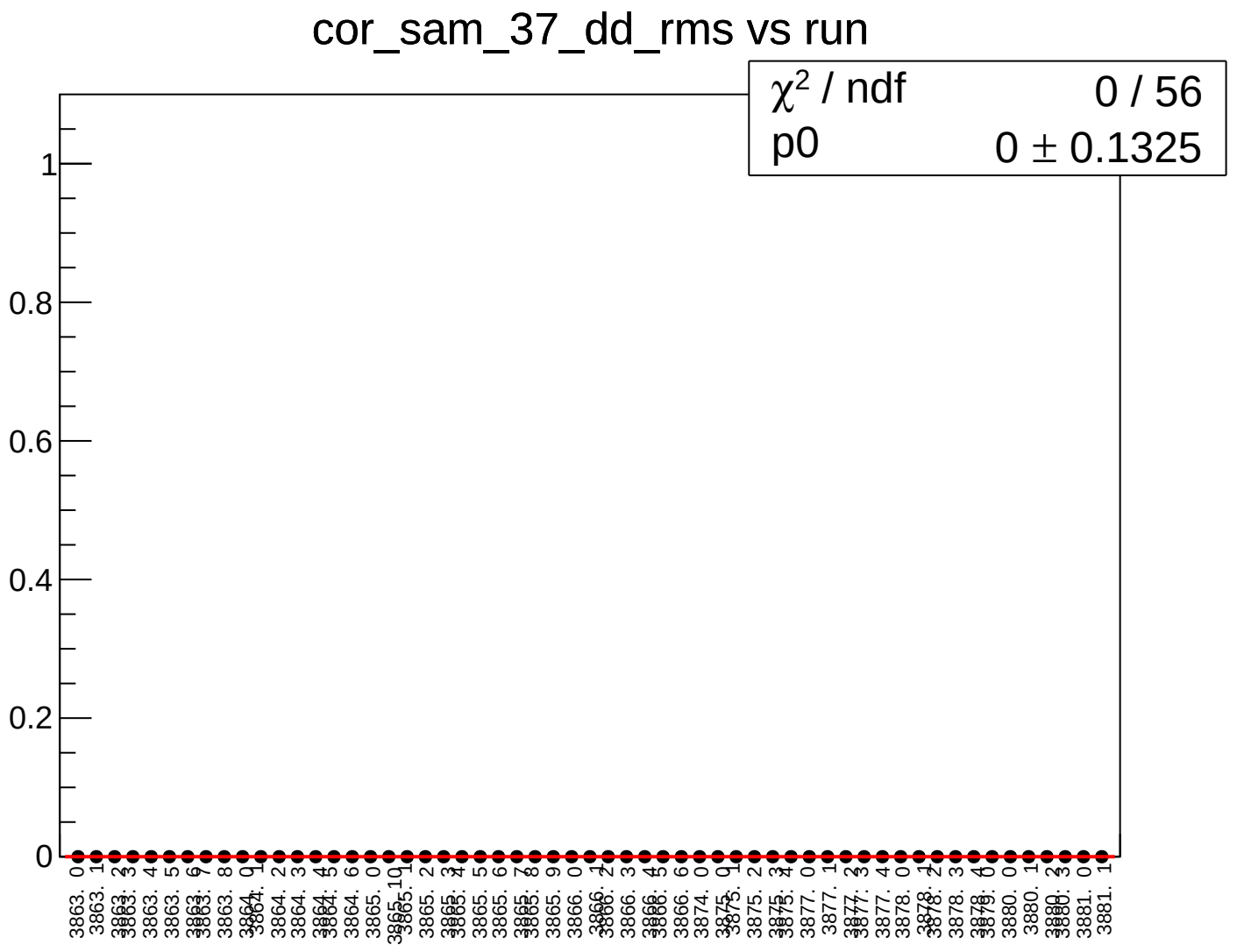

cor_sam_26_dd_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

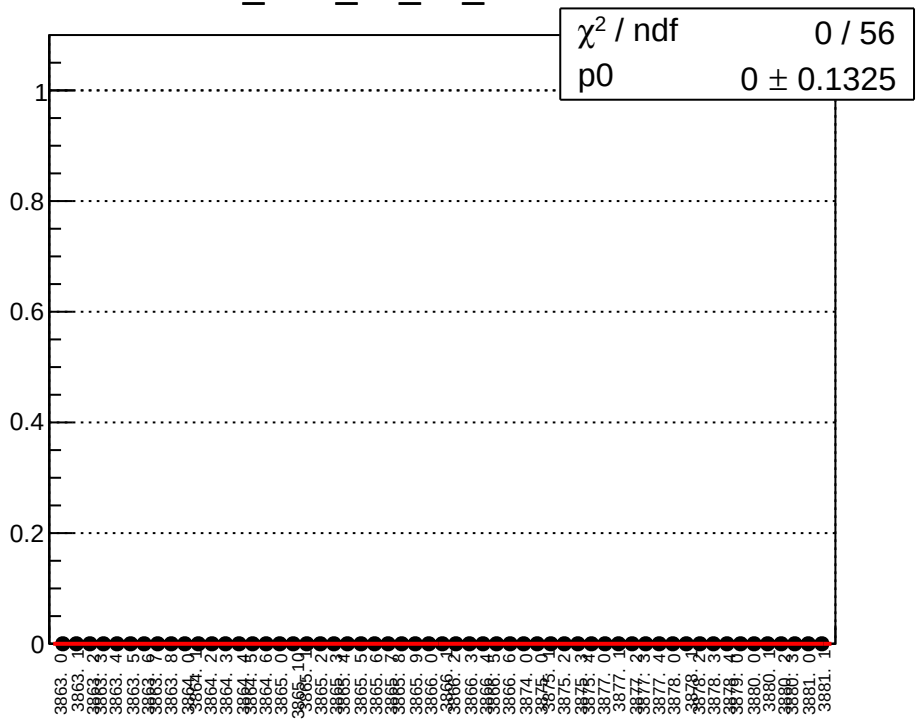

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

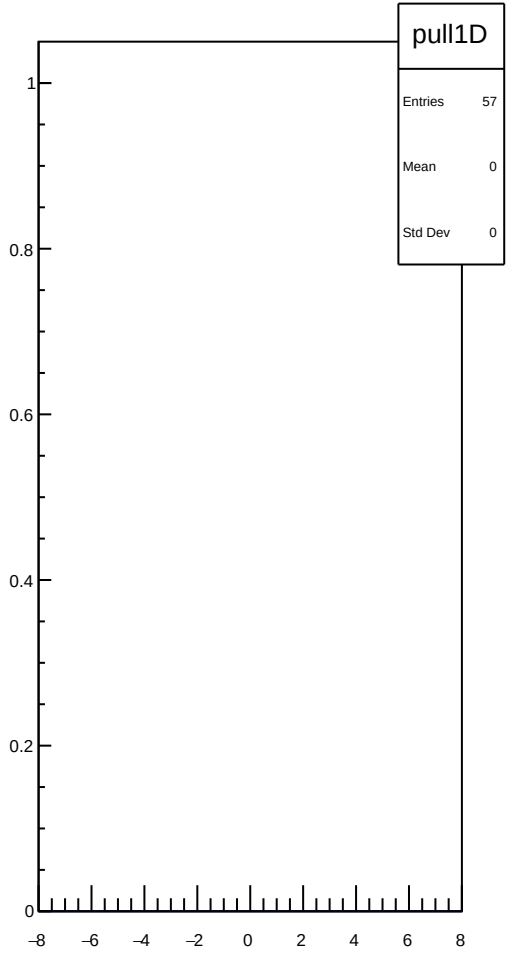

cor_sam_26_dd_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

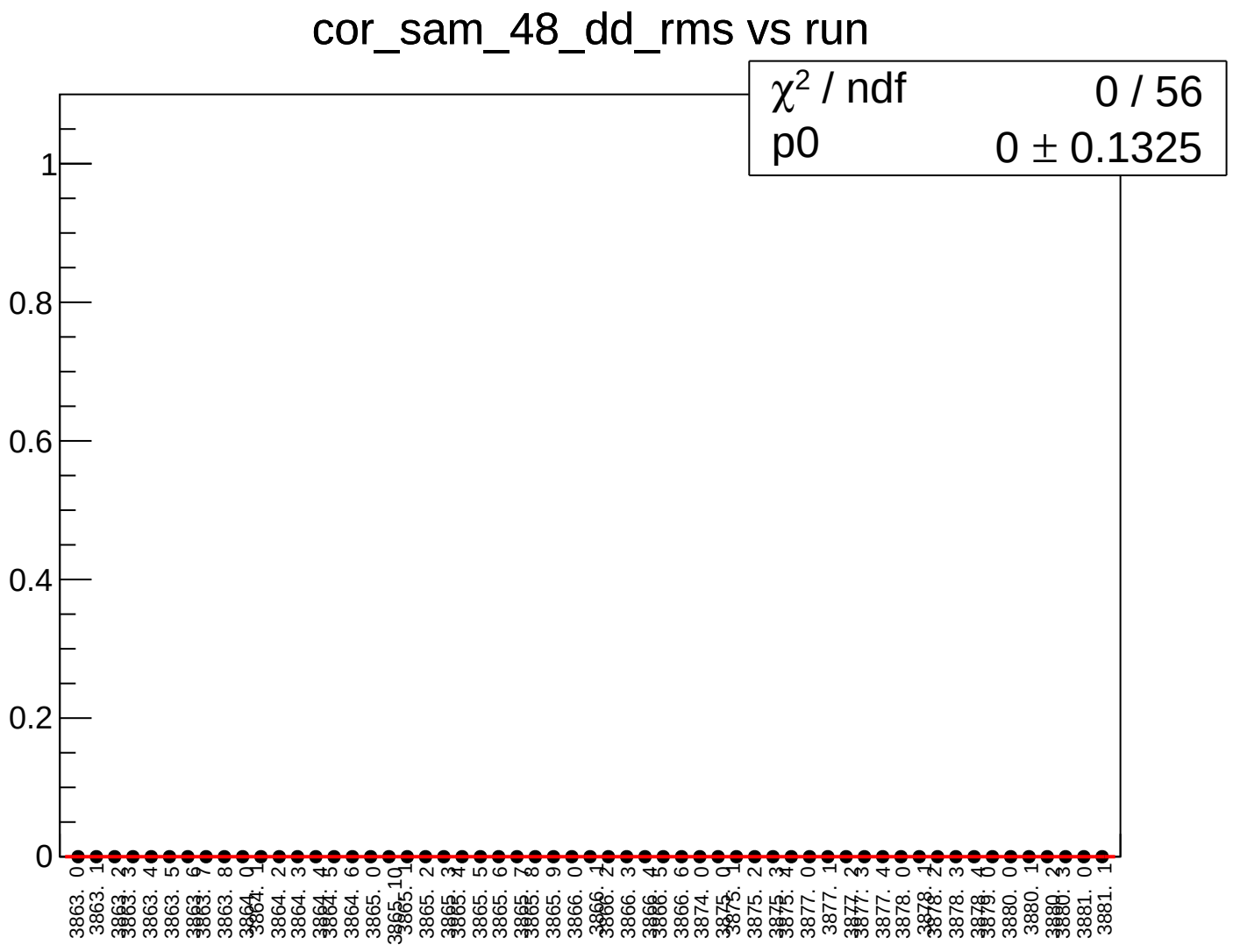

cor_sam_37_dd_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

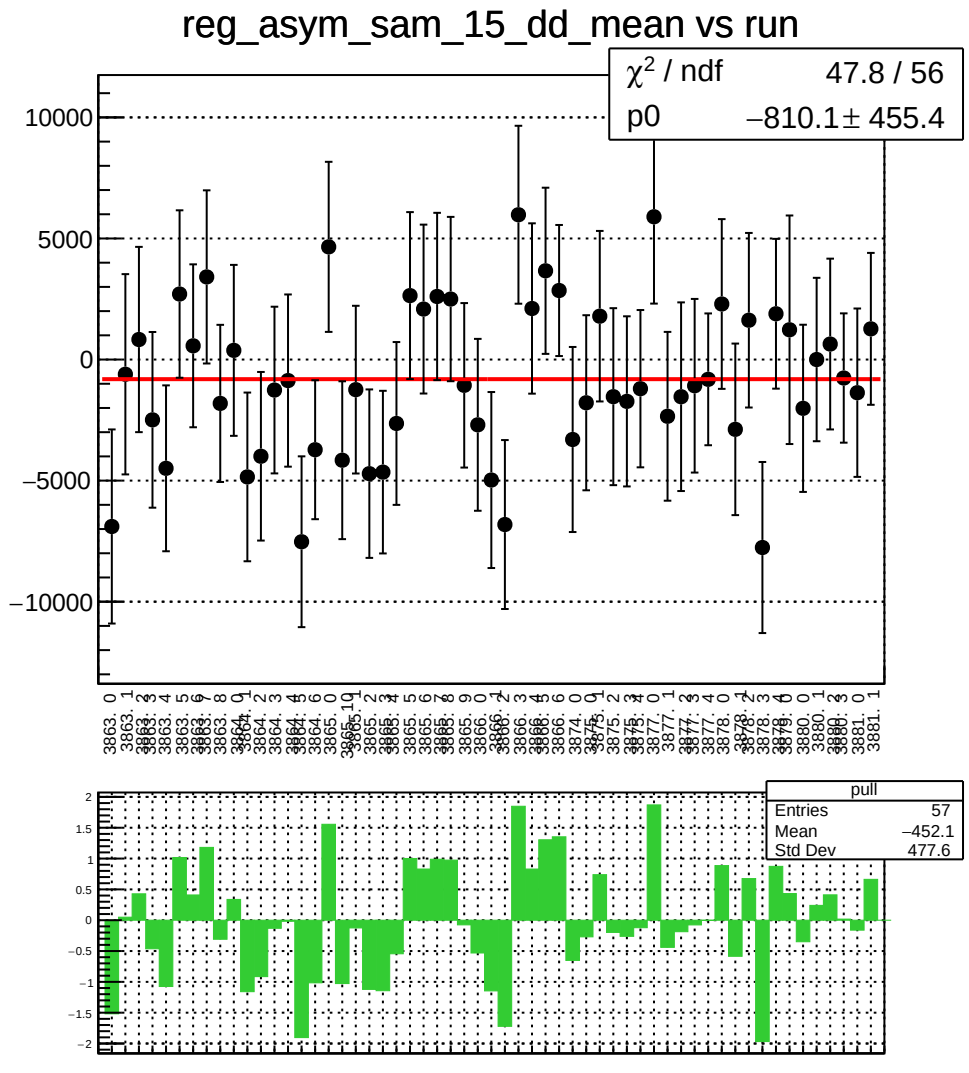

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

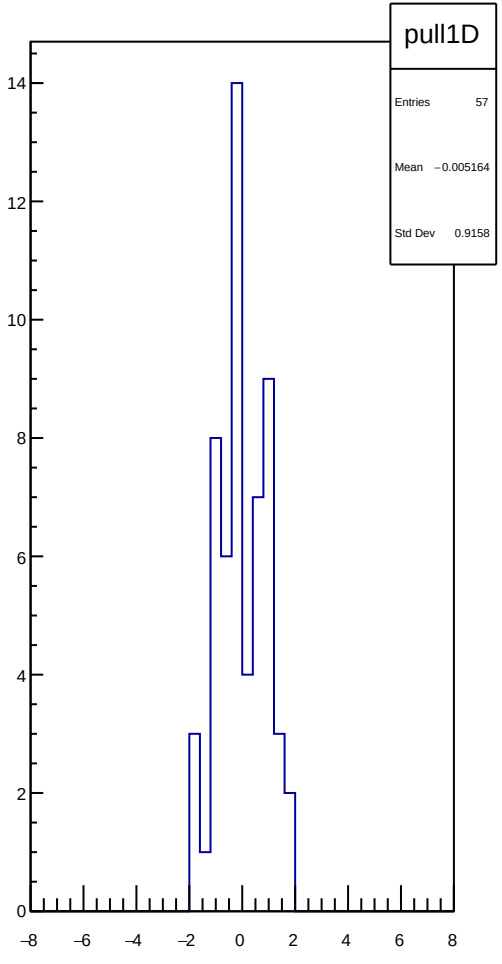

cor_sam_37_dd_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

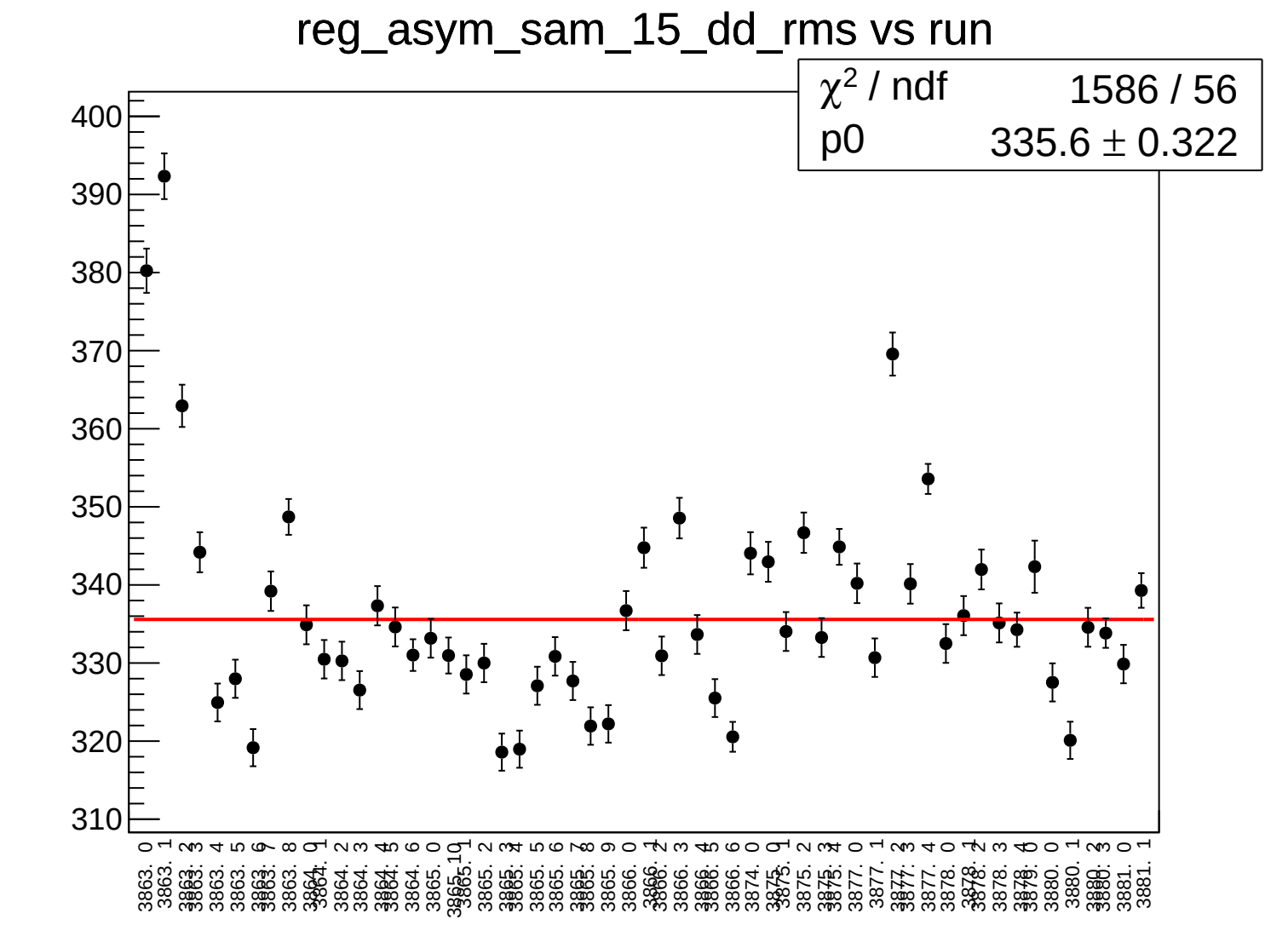

cor_sam_48_dd_mean vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

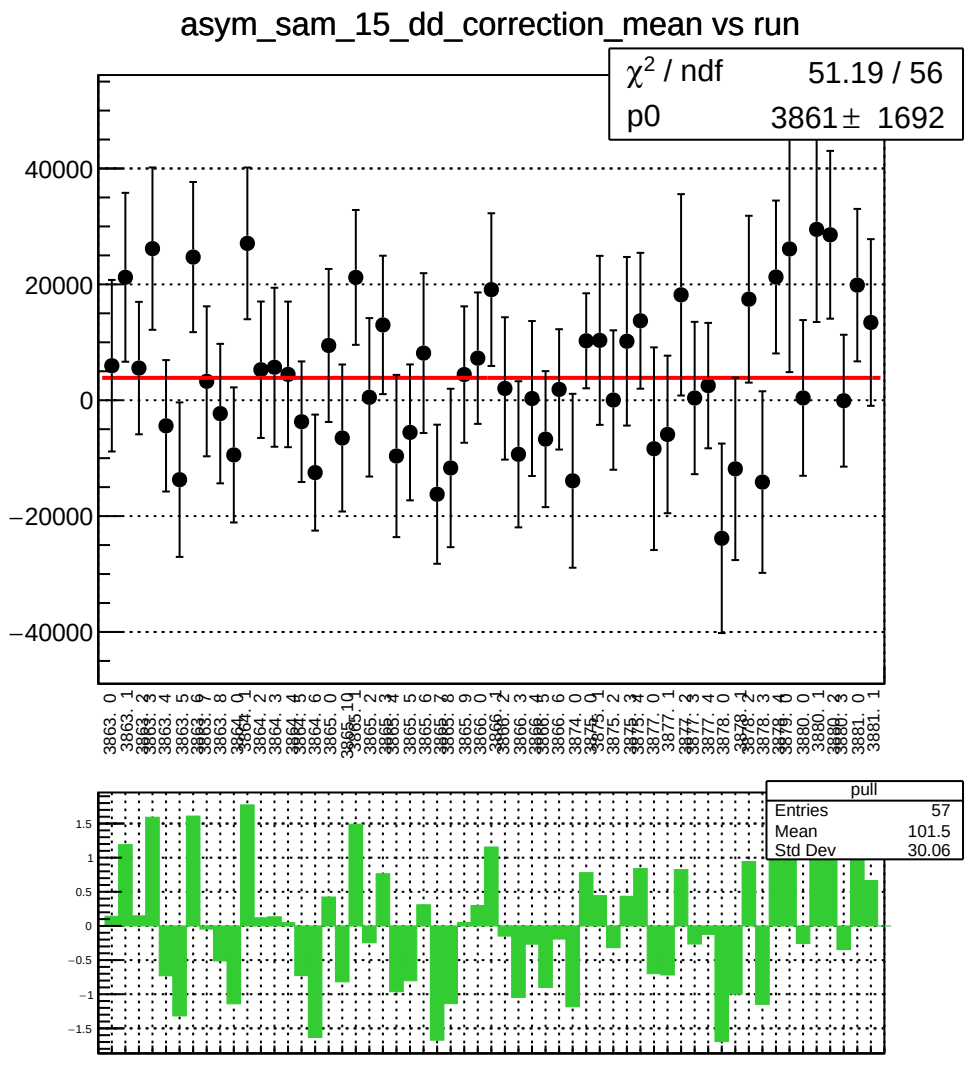

pull1D
Entries 57
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

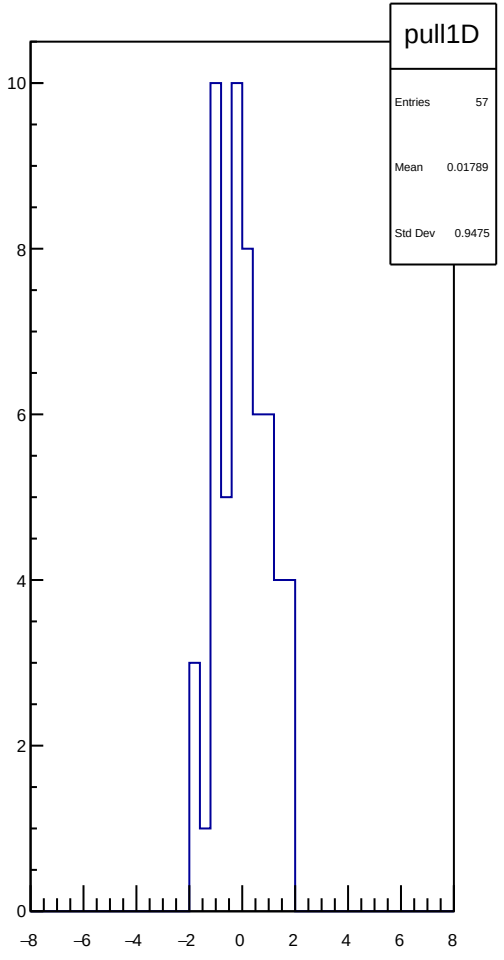

cor_sam_48_dd_rms vs run
χ² / ndf 0 / 56
p0 0 ± 0.1325
1
0.8
0.6
0.4
0.2
0

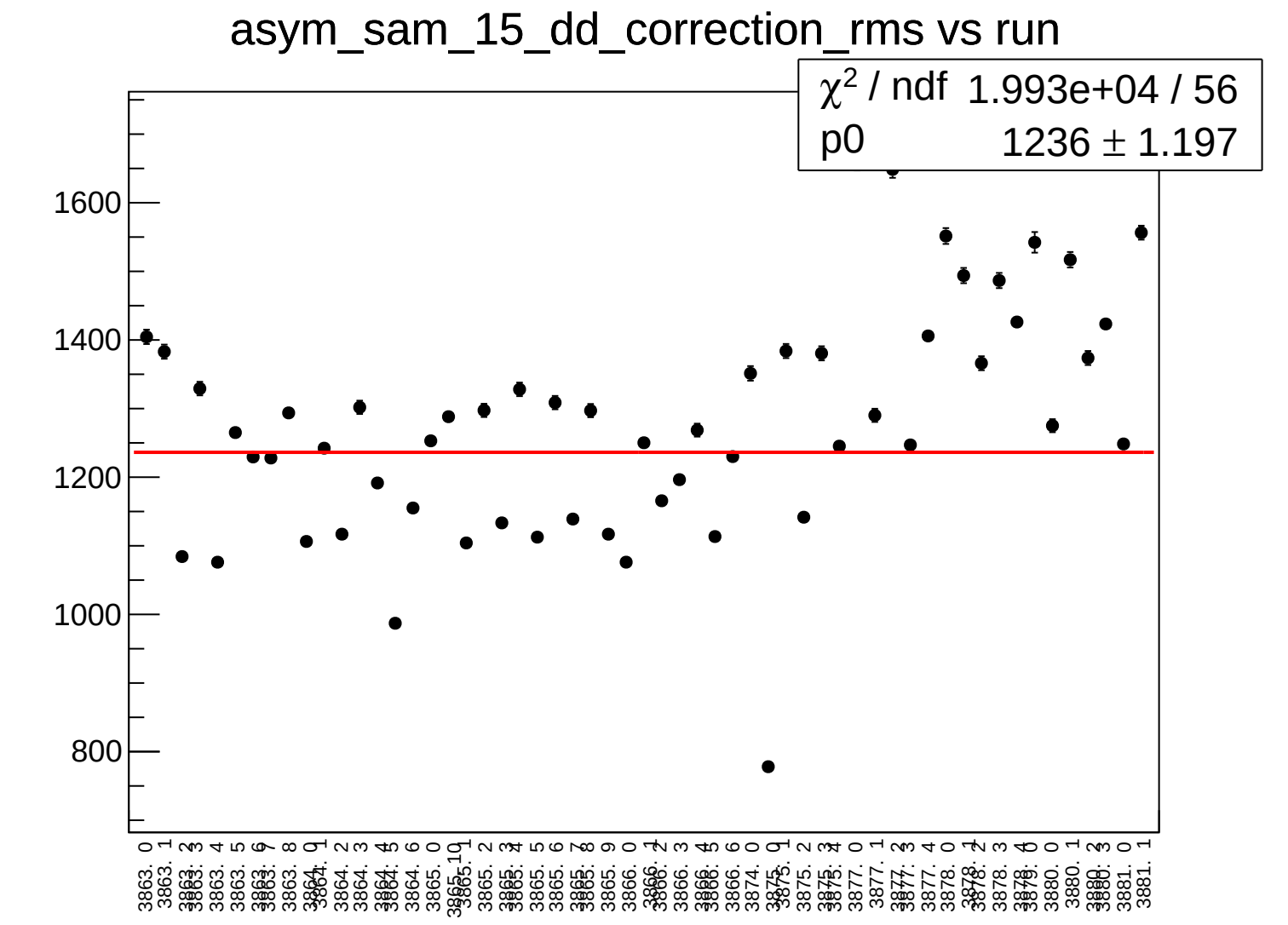

reg_asym_sam_15_dd_mean vs run
χ² / ndf 47.8 / 56
p0 −810.1 ± 455.4
pull
Entries 57
Mean −452.1
Std Dev 477.6

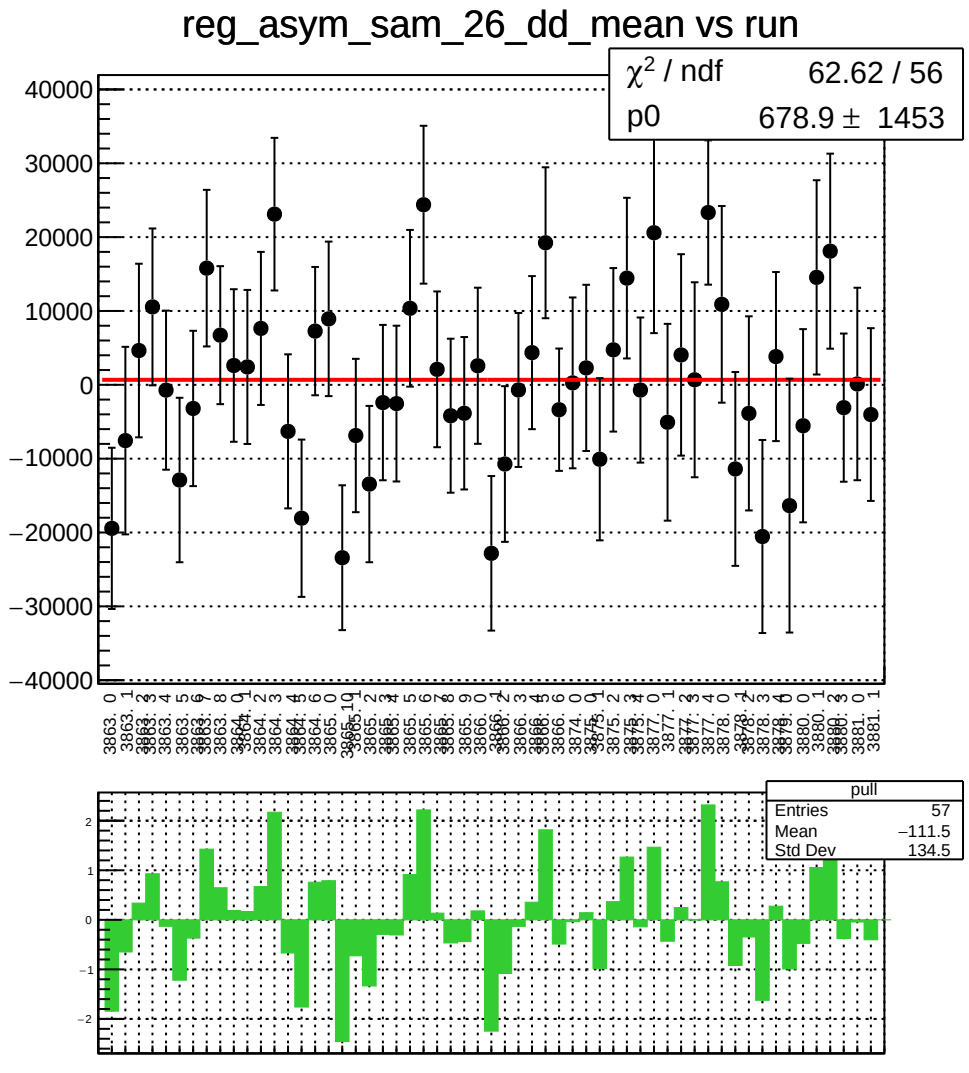

pull1D
Entries 57
Mean −0.005164
Std Dev 0.9158

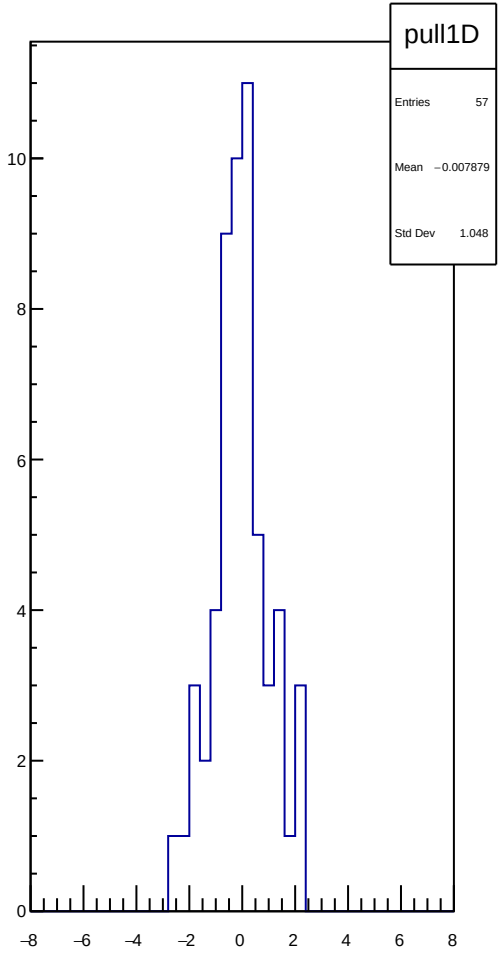

reg_asym_sam_15_dd_rms vs run
χ² / ndf 1586 / 56
p0 335.6 ± 0.322
400
390
380
370
360
350
340
330
320
310
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

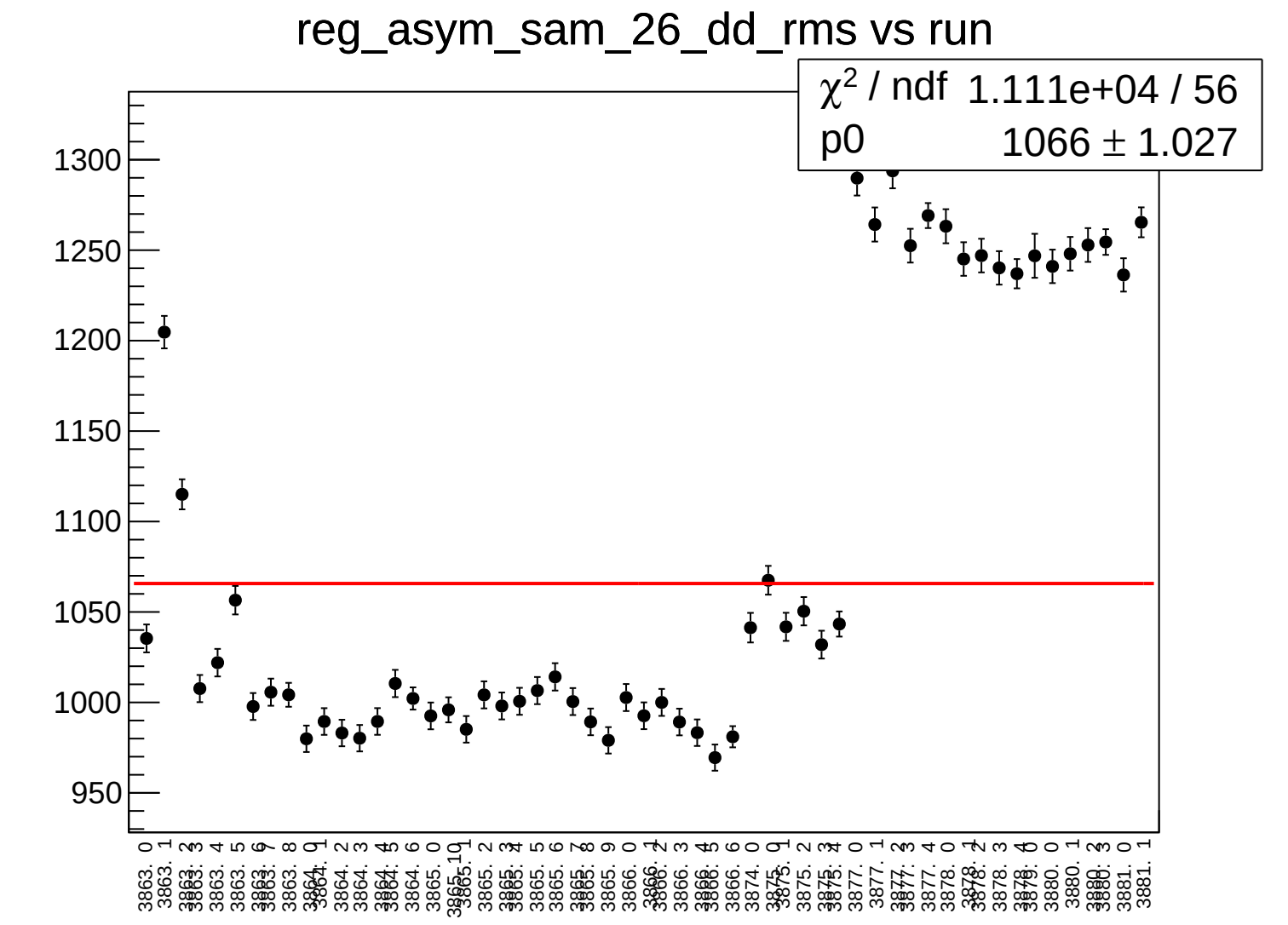

asym_sam_15_dd_correction_mean vs run
χ² / ndf 51.19 / 56
p0 3861 ± 1692
40000
20000
0
−20000
−40000
pull
Entries 57
Mean 101.5
Std Dev 30.06
1.5
1
0.5
0
−0.5
−1
−1.5

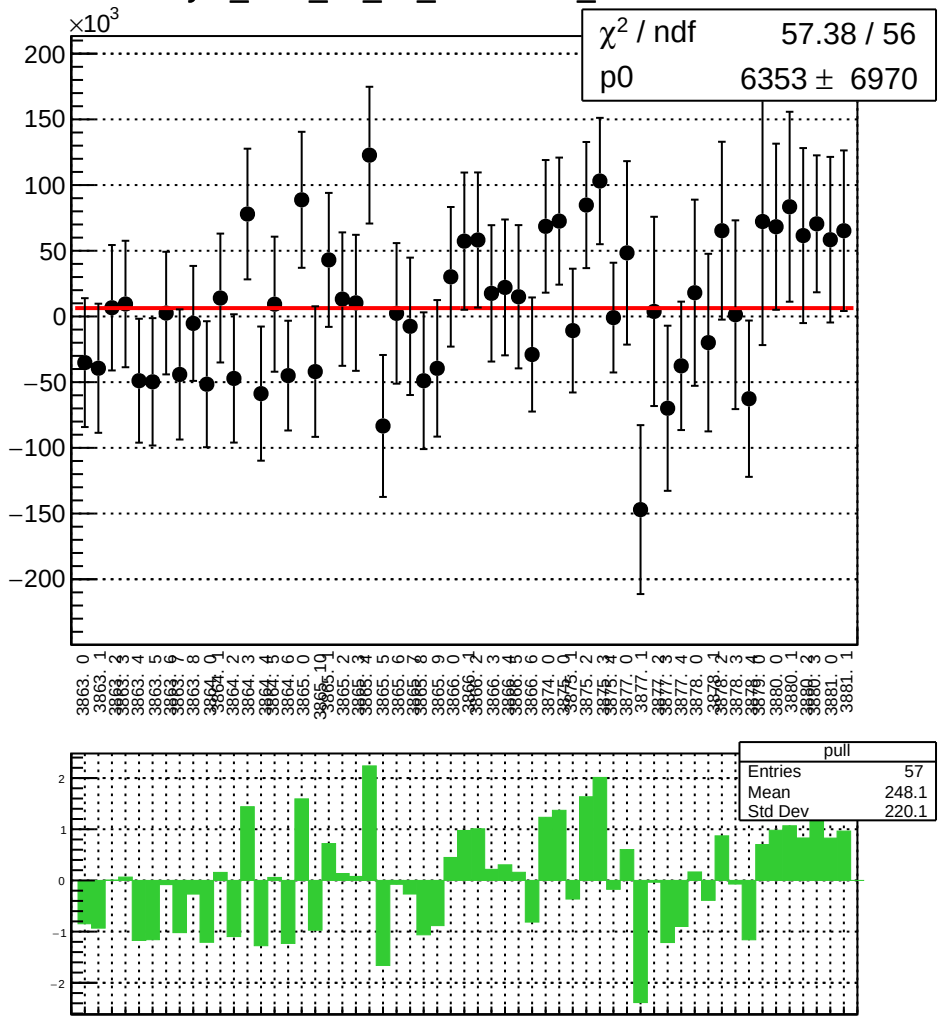

pull1D
Entries 57
Mean 0.01789
Std Dev 0.9475
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

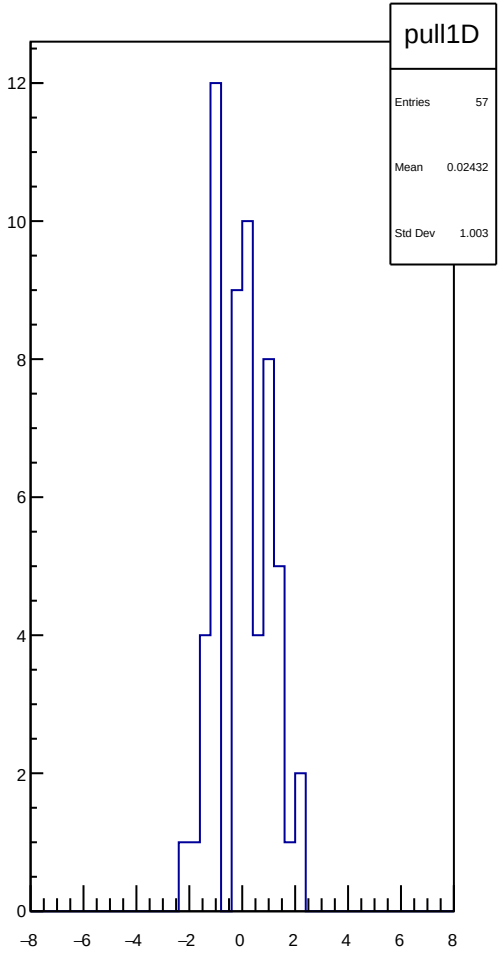

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1.993e+04 / 56
p0 1236 ± 1.197
1600
1400
1200
1000
800
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

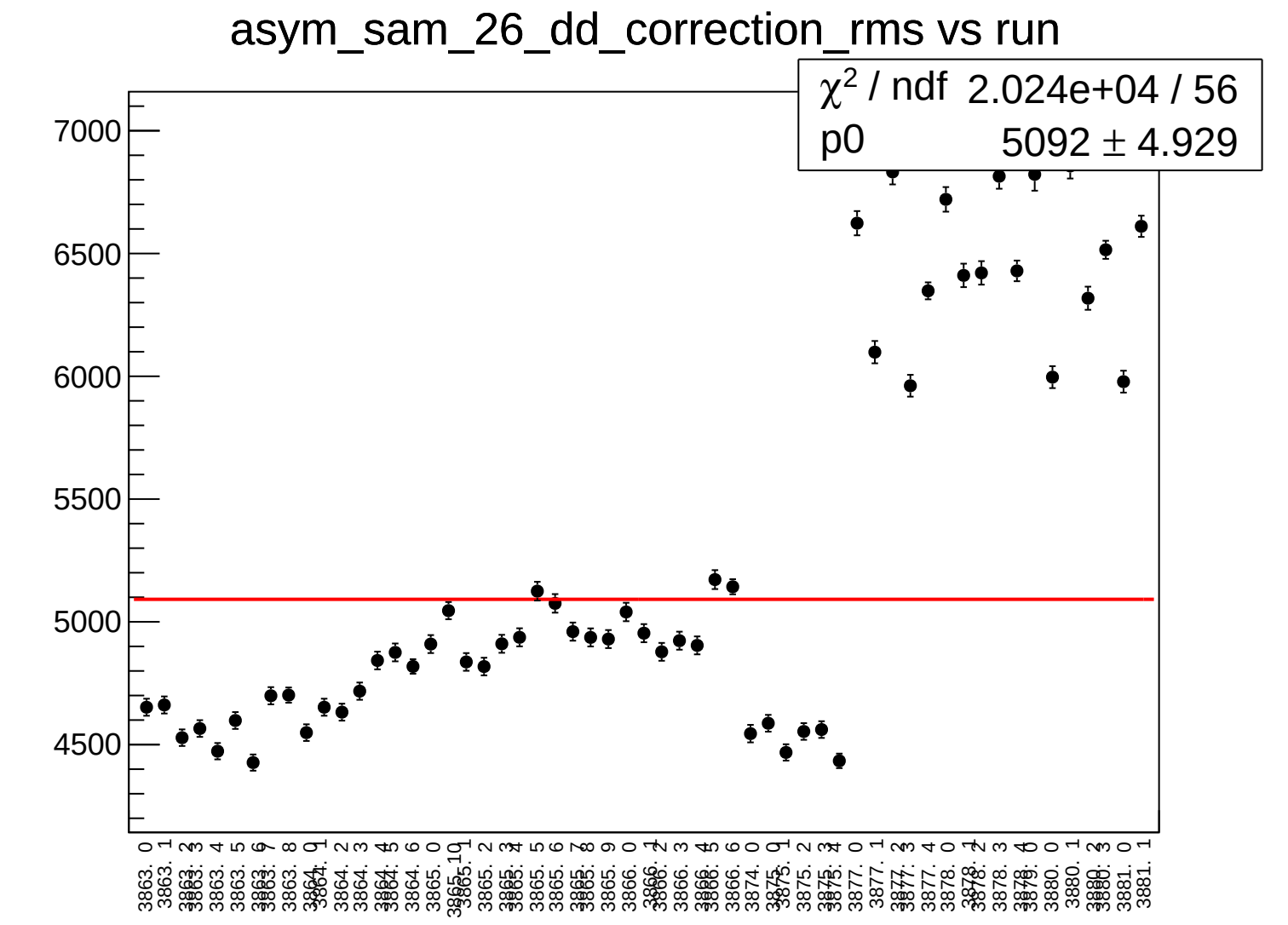

reg_asym_sam_26_dd_mean vs run
χ² / ndf 62.62 / 56
p0 678.9 ± 1453
pull
Entries 57
Mean −111.5
Std Dev 134.5

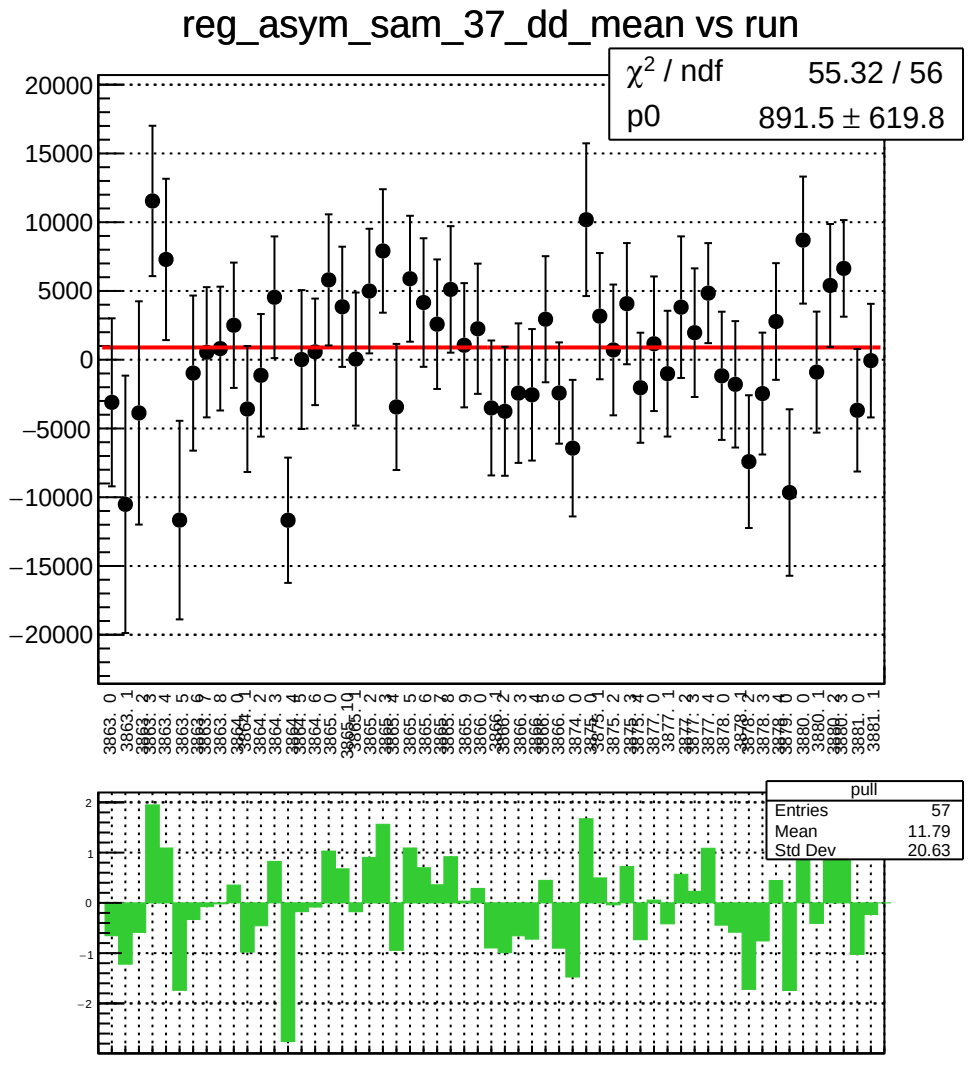

pull1D
Entries 57
Mean −0.007879
Std Dev 1.048

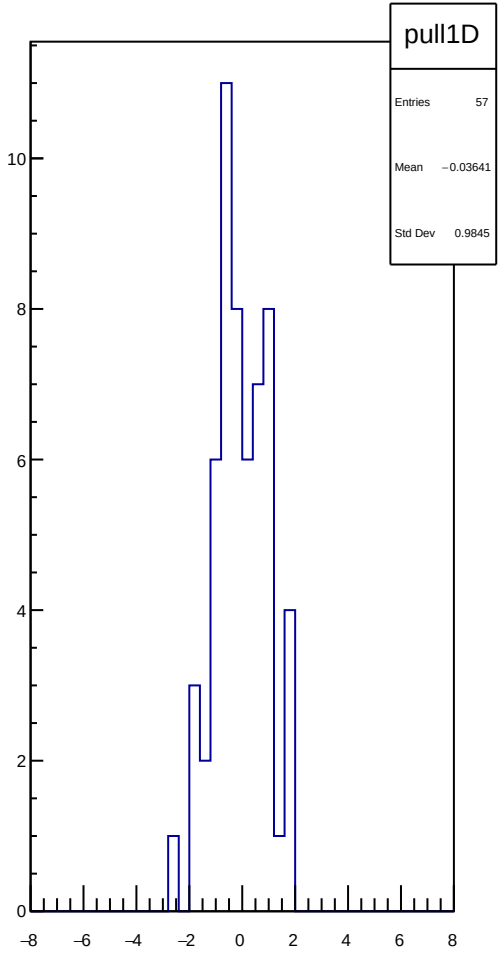

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1.111e+04 / 56
p0 1066 ± 1.027
1300
1250
1200
1150
1100
1050
1000
950

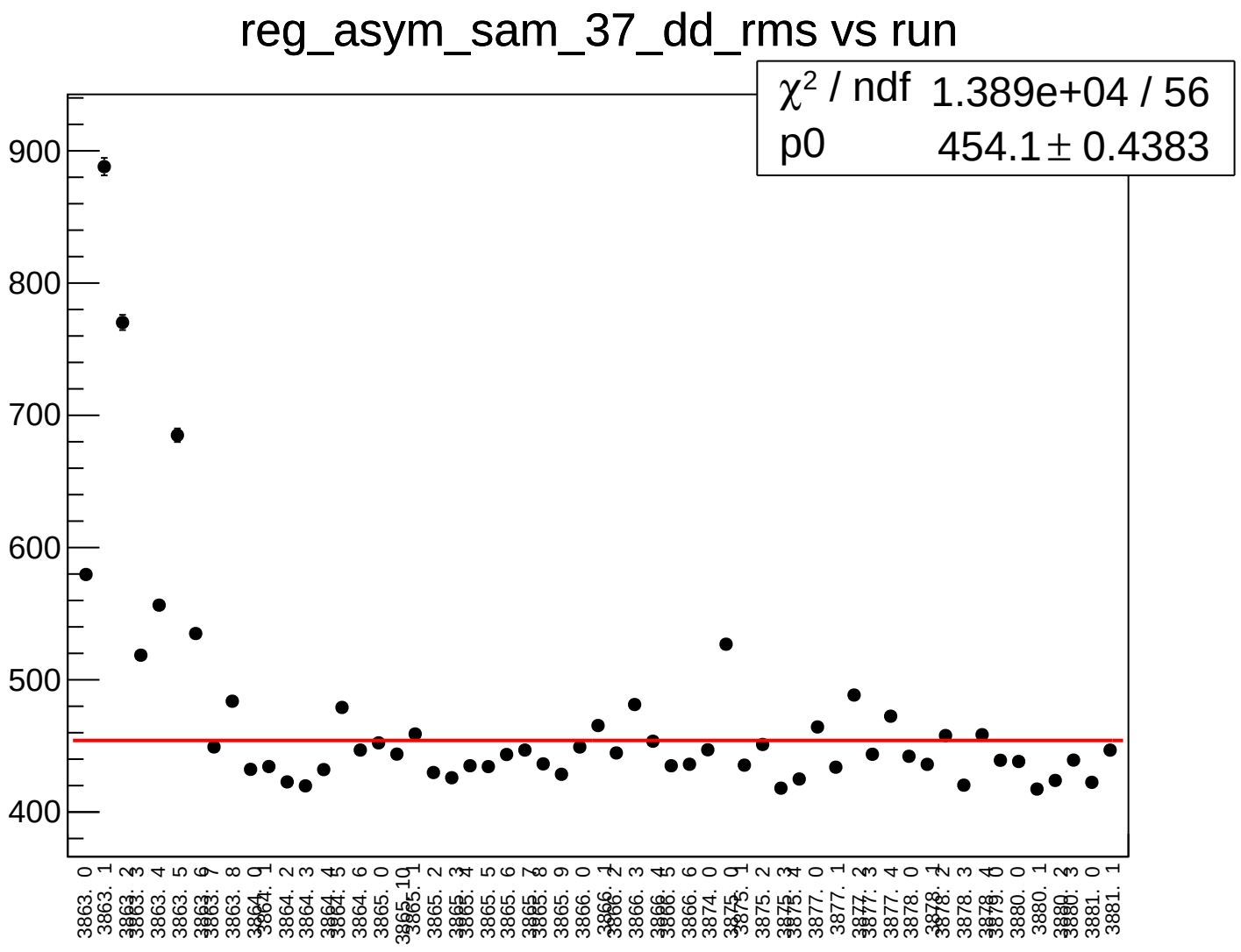

asym_sam_26_dd_correction_mean vs run
χ² / ndf 57.38 / 56
p0 6353 ± 6970
pull
Entries 57
Mean 248.1
Std Dev 220.1

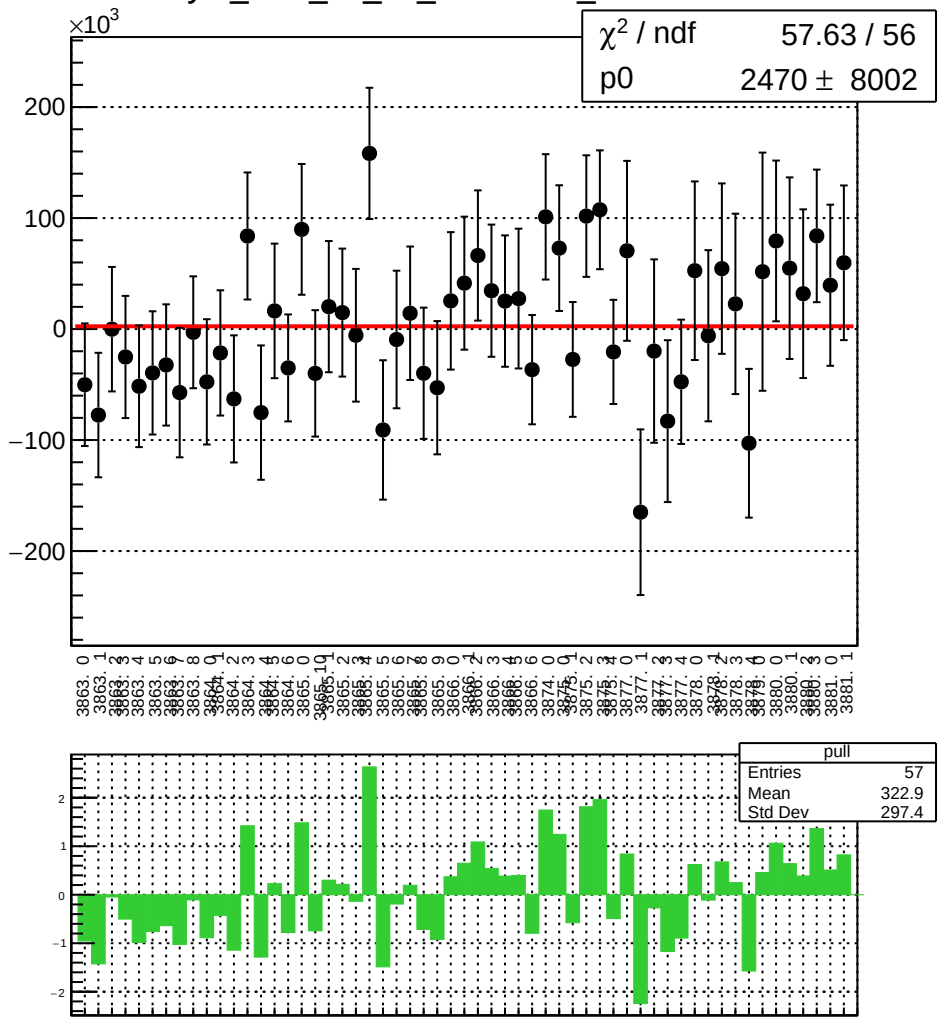

pull1D
Entries 57
Mean 0.02432
Std Dev 1.003

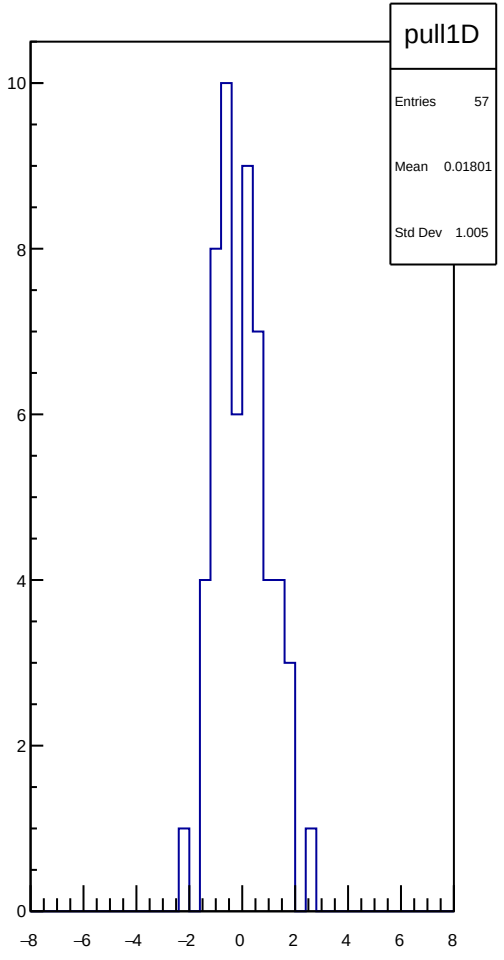

asym_sam_26_dd_correction_rms vs run
χ² / ndf 2.024e+04 / 56
p0 5092 ± 4.929
7000
6500
6000
5500
5000
4500

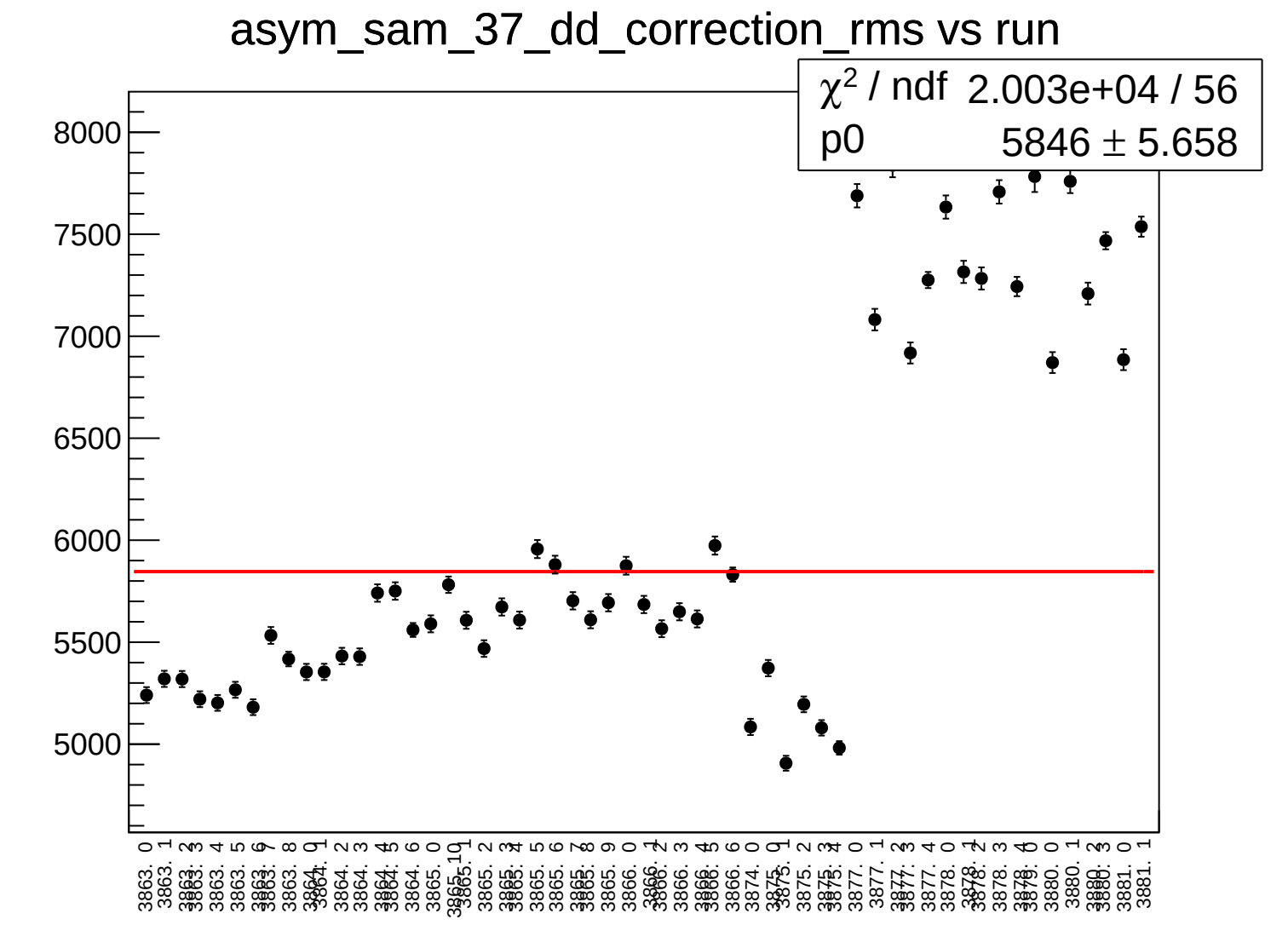

reg_asym_sam_37_dd_mean vs run
χ² / ndf 55.32 / 56
p0 891.5 ± 619.8
pull
Entries 57
Mean 11.79
Std Dev 20.63

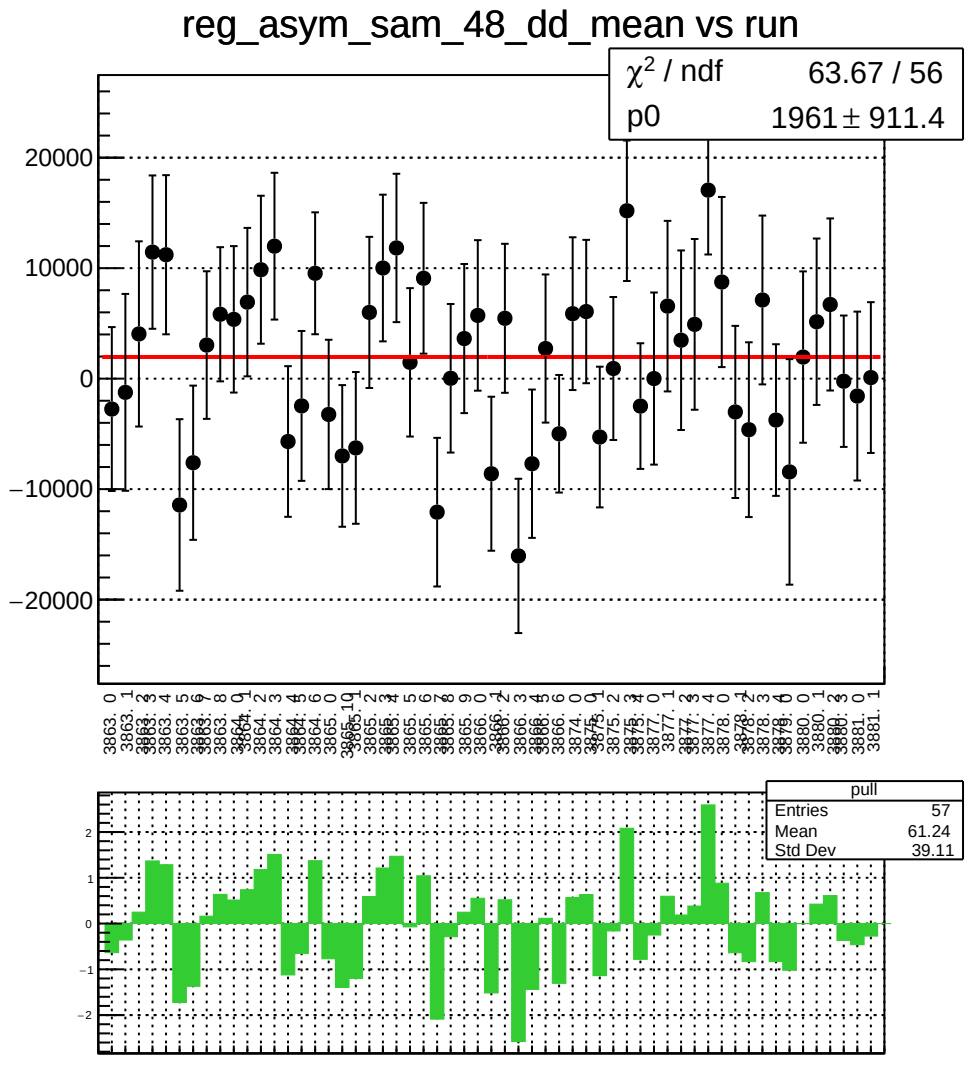

pull1D
Entries 57
Mean −0.03641
Std Dev 0.9845

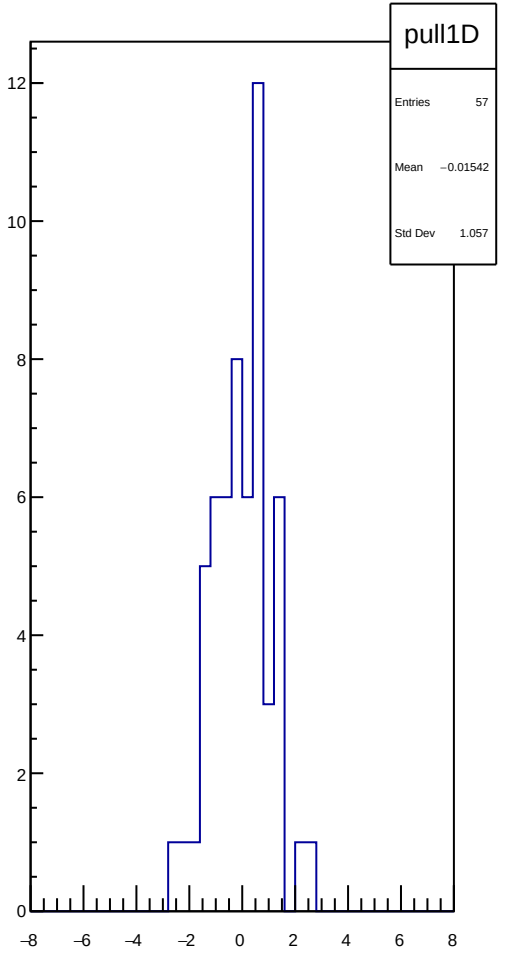

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.389e+04 / 56
p0 454.1 ± 0.4383
900
800
700
600
500
400
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

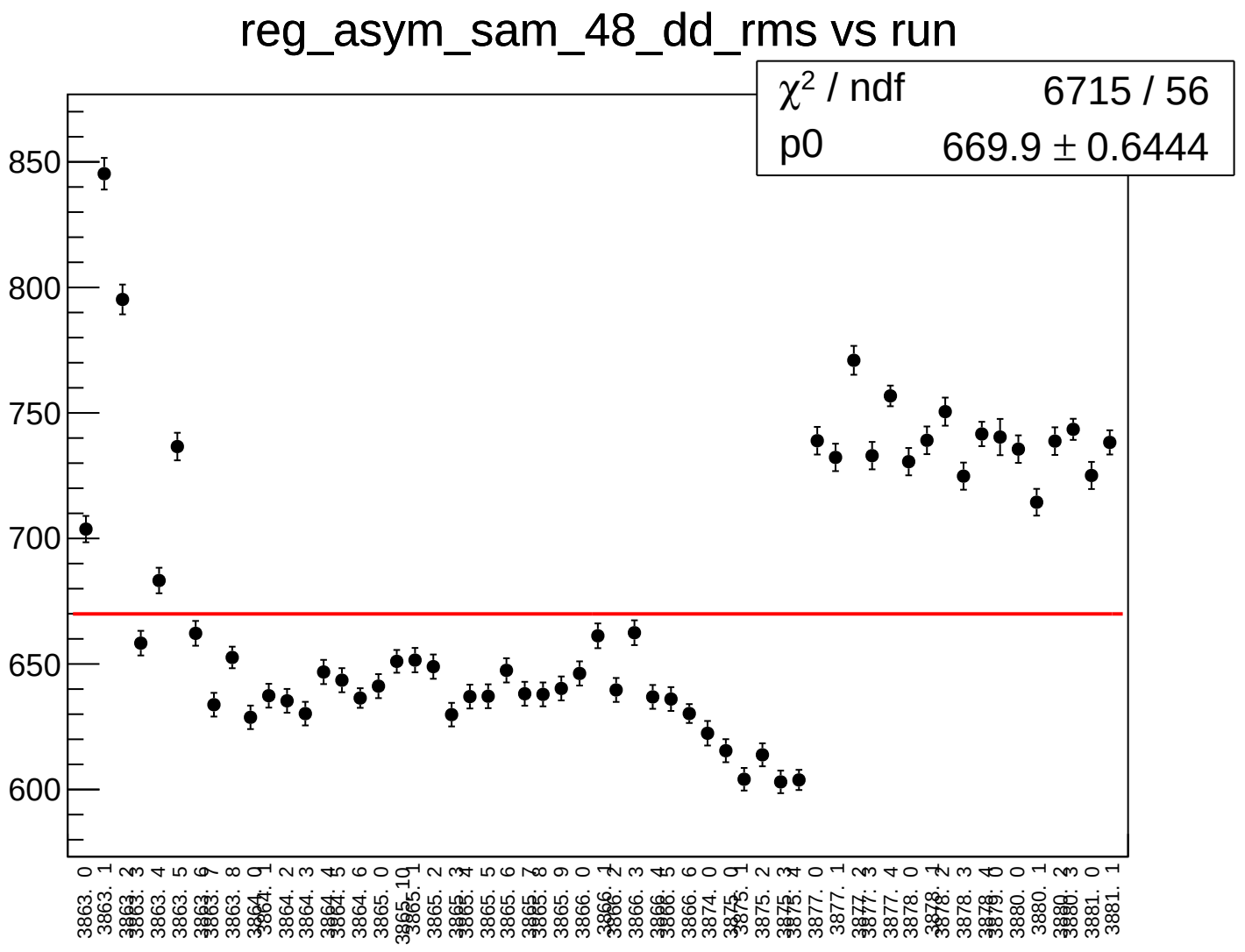

asym_sam_37_dd_correction_mean vs run
χ² / ndf 57.63 / 56
p0 2470 ± 8002
×10³
200
100
0
−100
−200
pull
Entries 57
Mean 322.9
Std Dev 297.4
2
1
0
−1
−2

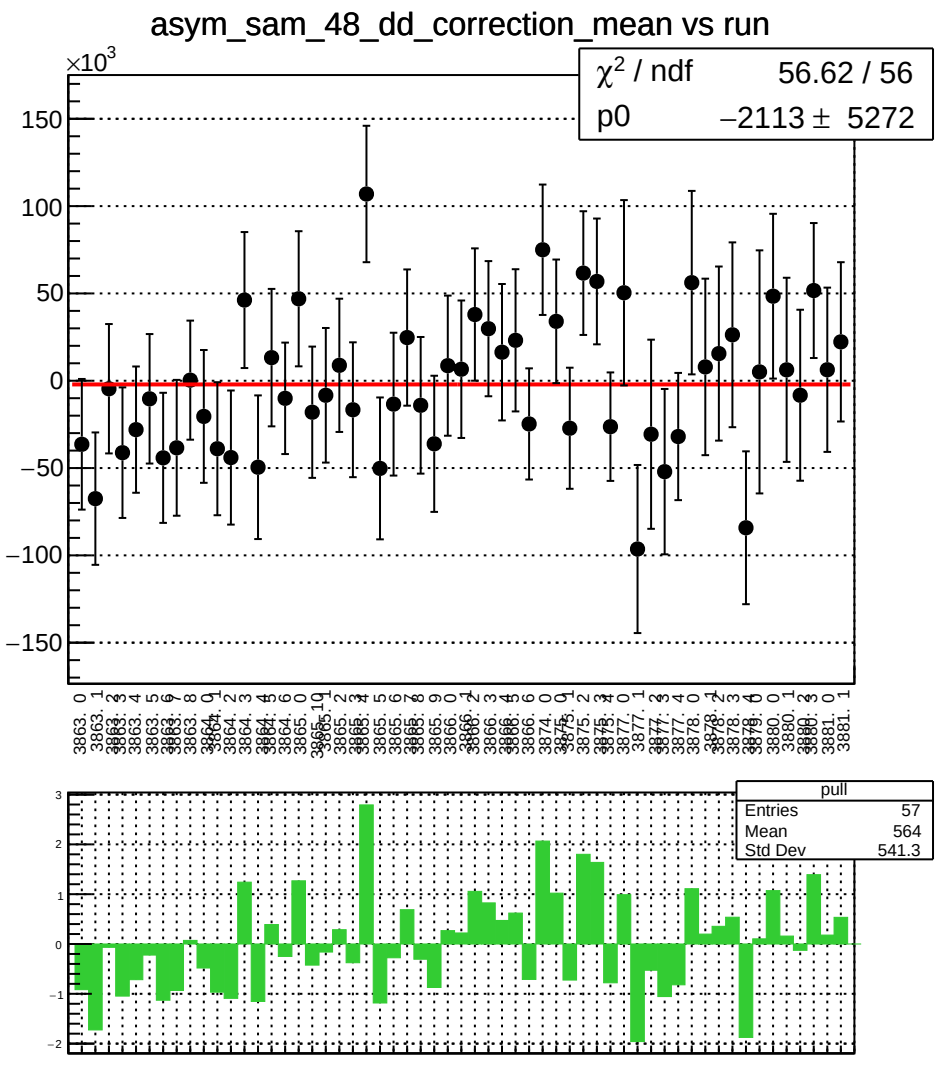

pull1D
Entries 57
Mean 0.01801
Std Dev 1.005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

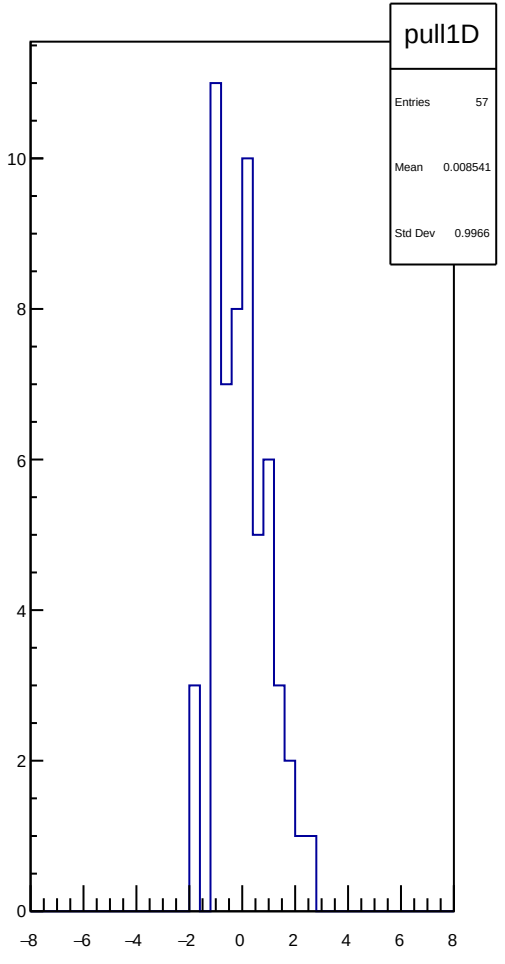

asym_sam_37_dd_correction_rms vs run
χ² / ndf 2.003e+04 / 56
p0 5846 ± 5.658
8000
7500
7000
6500
6000
5500
5000
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

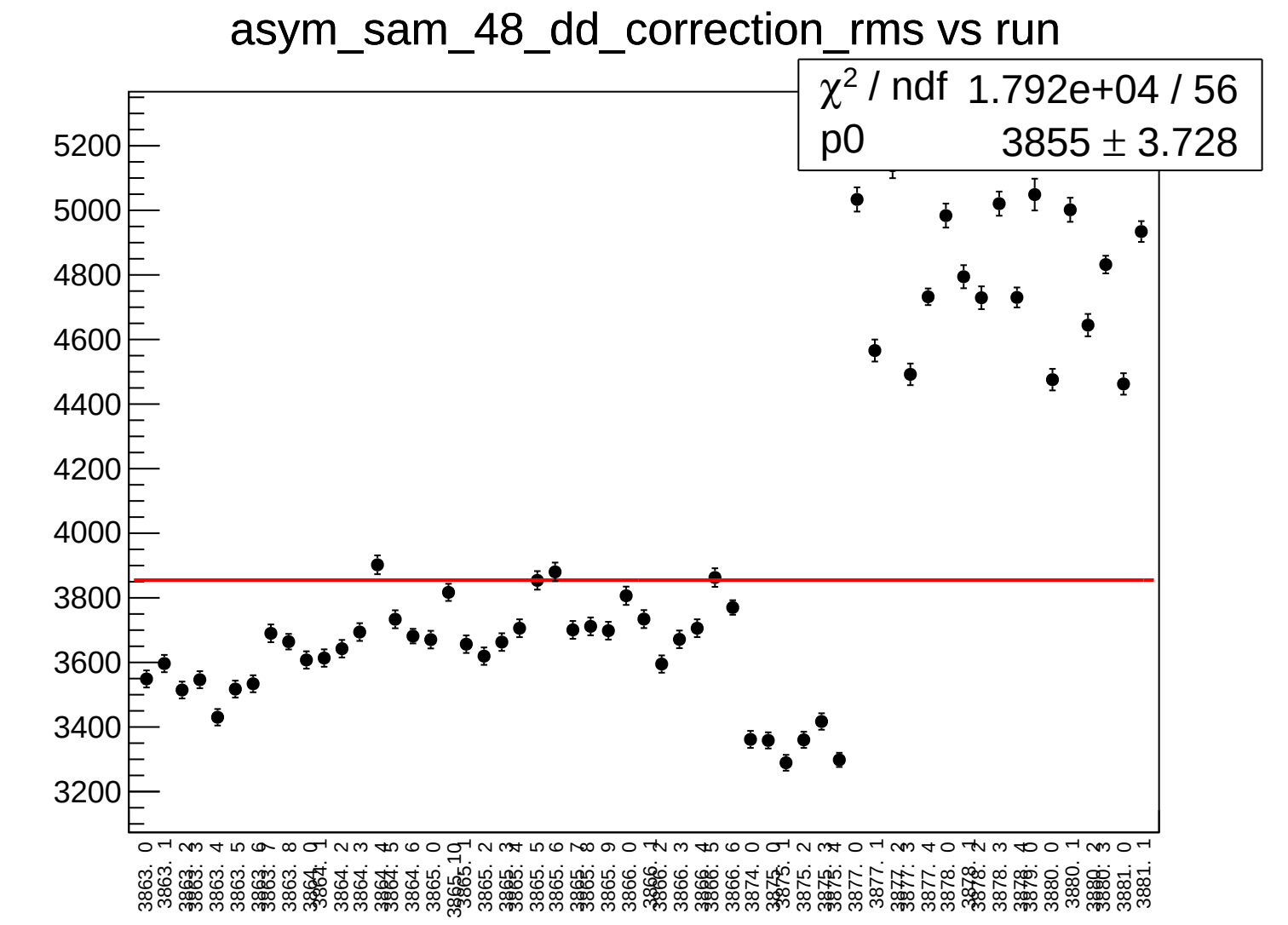

reg_asym_sam_48_dd_mean vs run
χ² / ndf 63.67 / 56
p0 1961 ± 911.4
20000
10000
0
−10000
−20000
pull
Entries 57
Mean 61.24
Std Dev 39.11
2
1
0
−1
−2

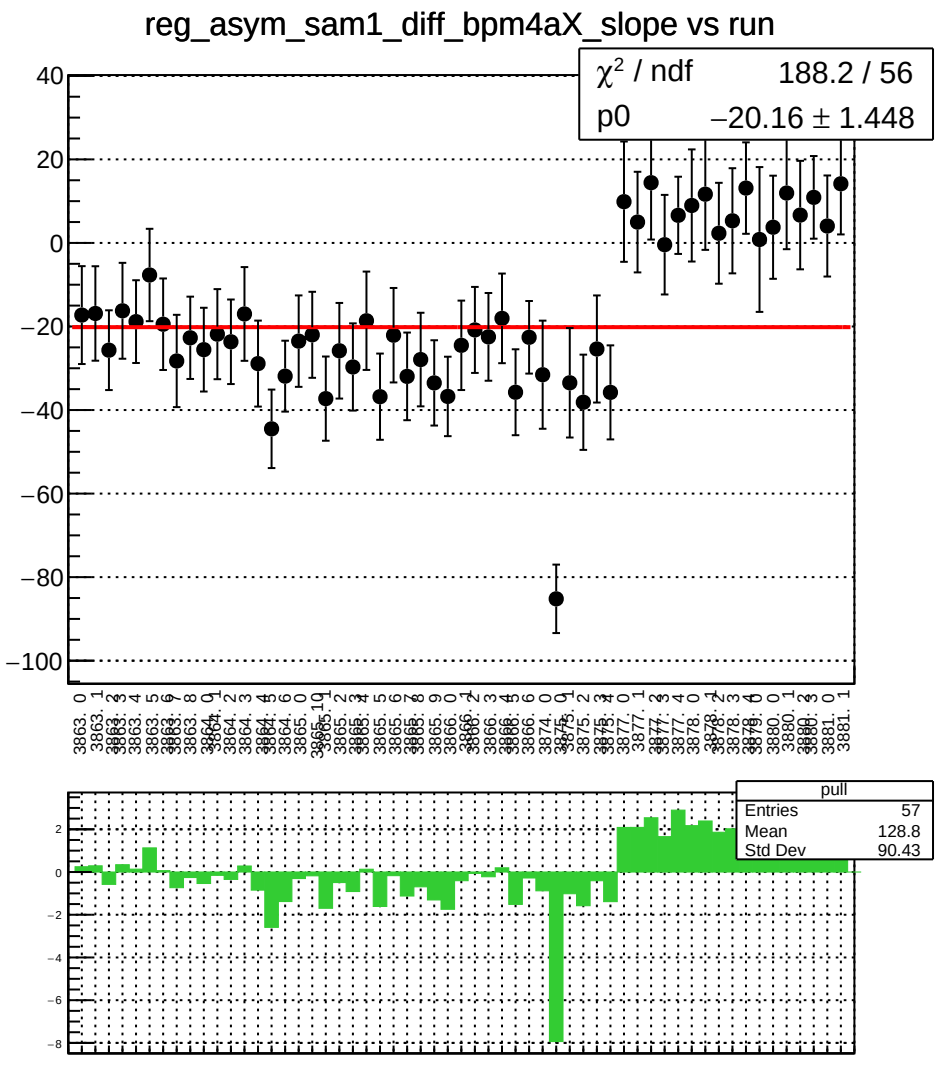

pull1D
Entries 57
Mean −0.01542
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

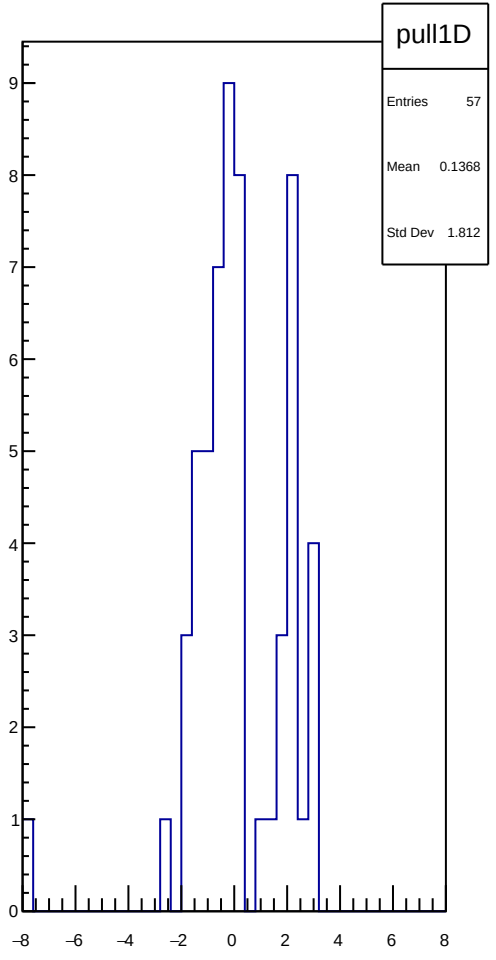

reg_asym_sam_48_dd_rms vs run
χ² / ndf 6715 / 56
p0 669.9 ± 0.6444
850
800
750
700
650
600

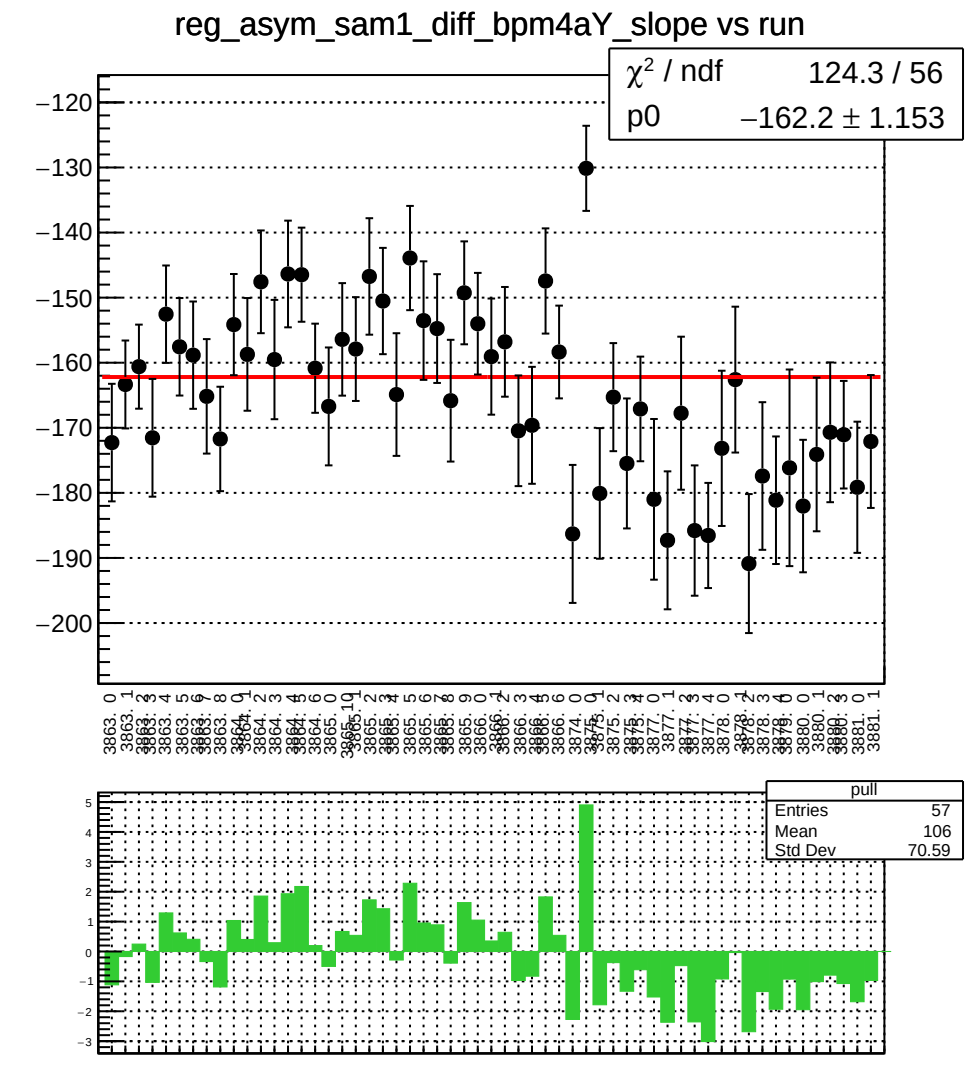

asym_sam_48_dd_correction_mean vs run
×10^3
χ^2 / ndf 56.62 / 56
p0 −2113 ± 5272
150
100
50
0
−50
−100
−150
pull
Entries 57
Mean 564
Std Dev 541.3
3
2
1
0
−1
−2

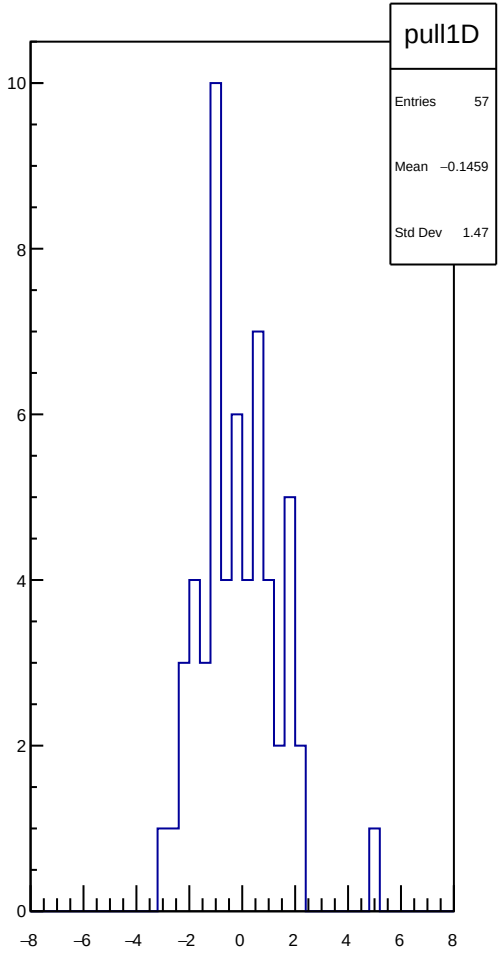

pull1D
Entries 57
Mean 0.008541
Std Dev 0.9966
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

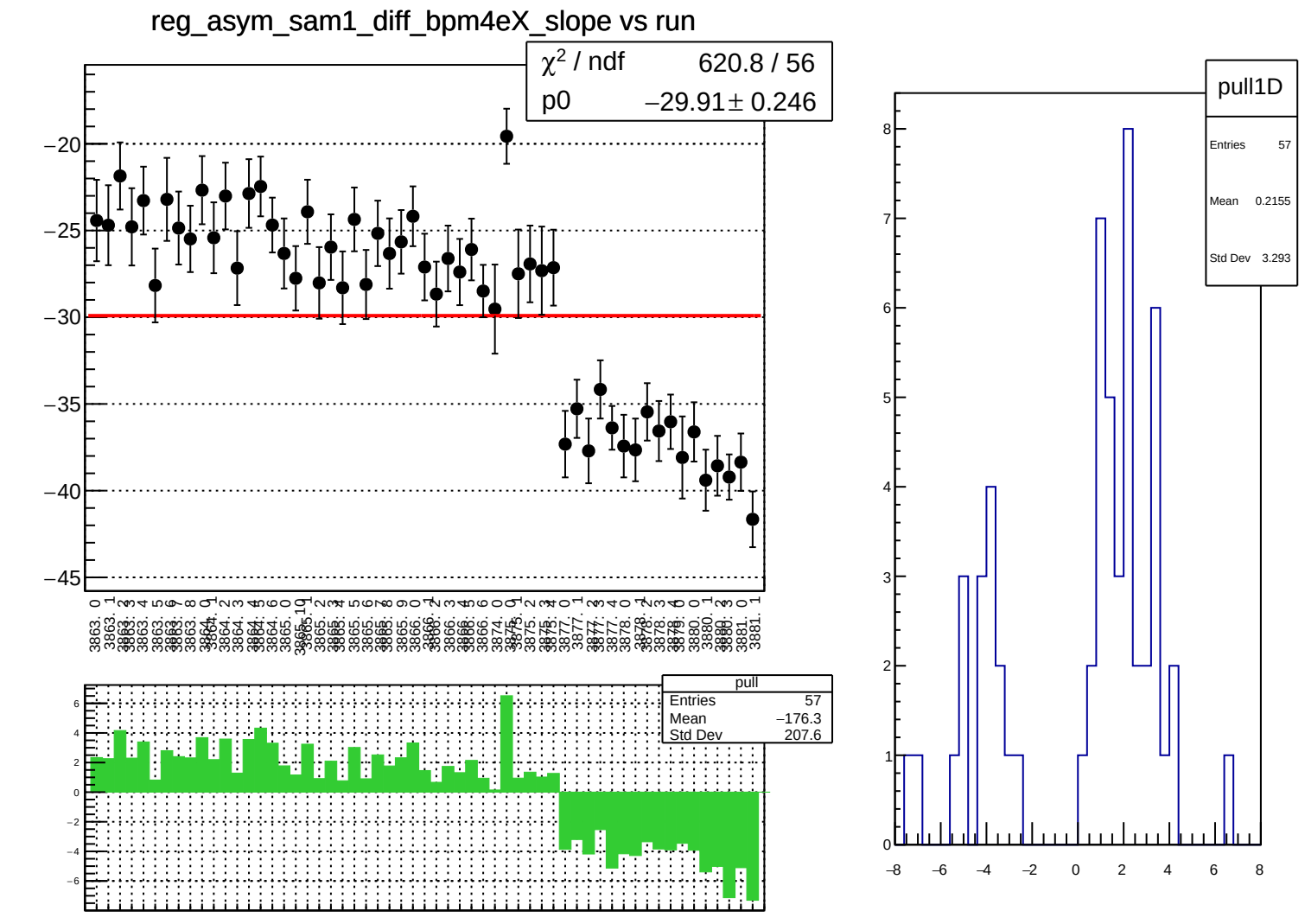

asym_sam_48_dd_correction_rms vs run
χ² / ndf 1.792e+04 / 56
p0 3855 ± 3.728
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

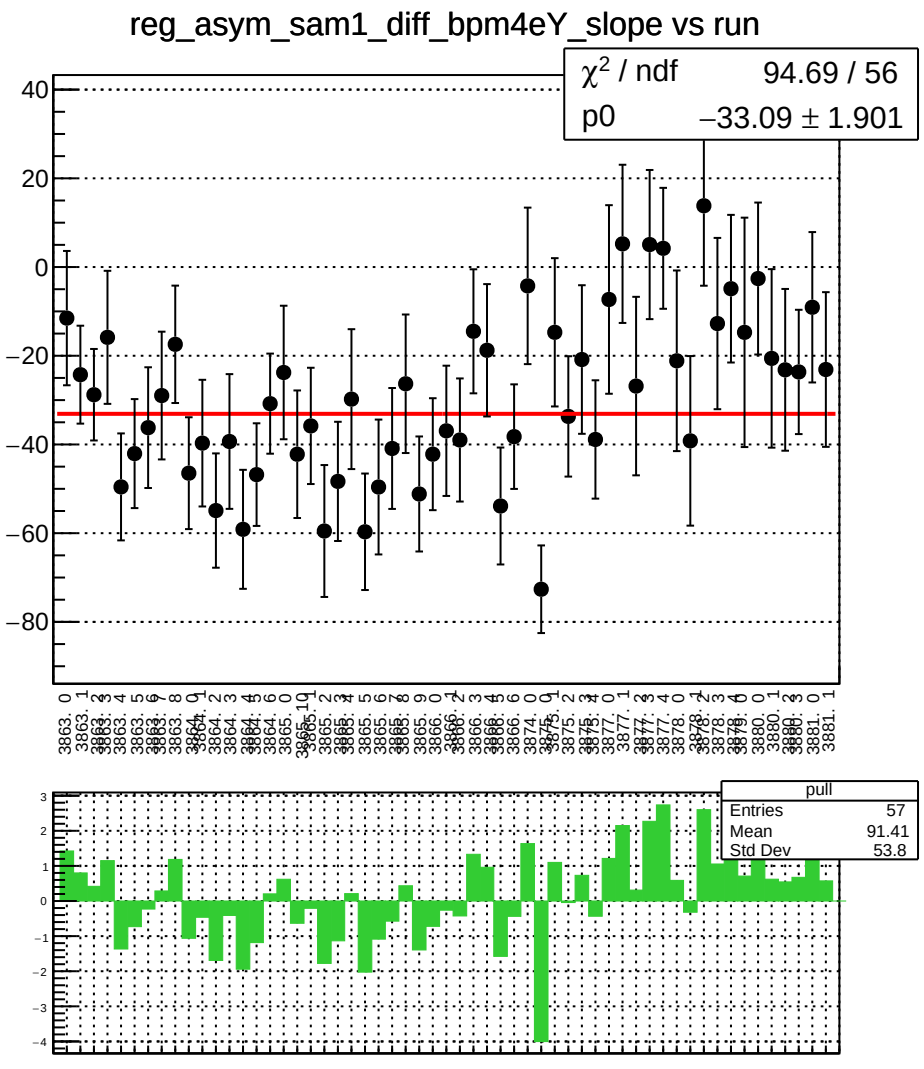

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 188.2 / 56
p0 −20.16 ± 1.448
pull
Entries 57
Mean 128.8
Std Dev 90.43

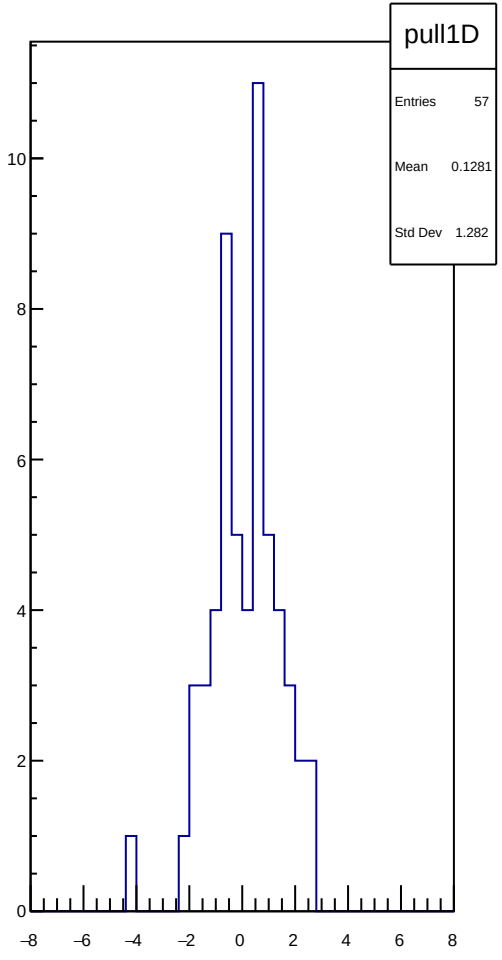

pull1D
Entries 57
Mean 0.1368
Std Dev 1.812

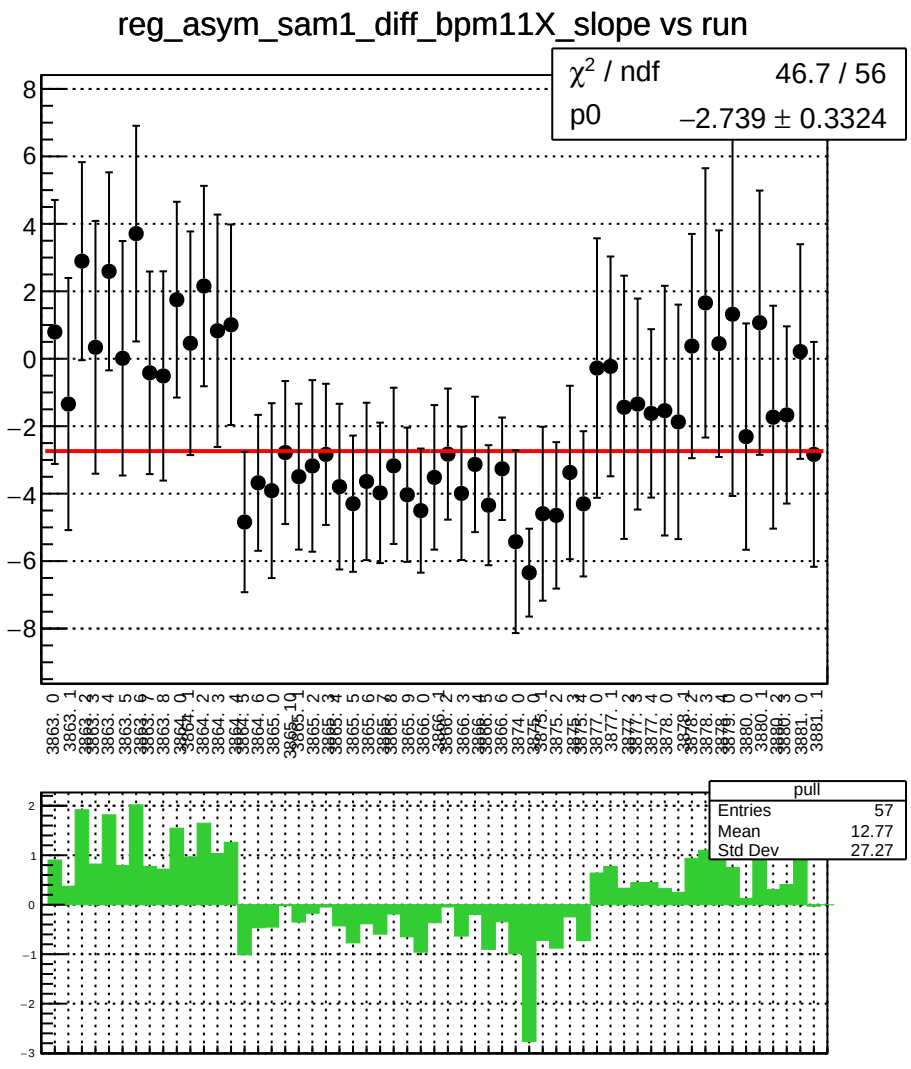

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 124.3 / 56
p0 −162.2 ± 1.153
pull
Entries 57
Mean 106
Std Dev 70.59

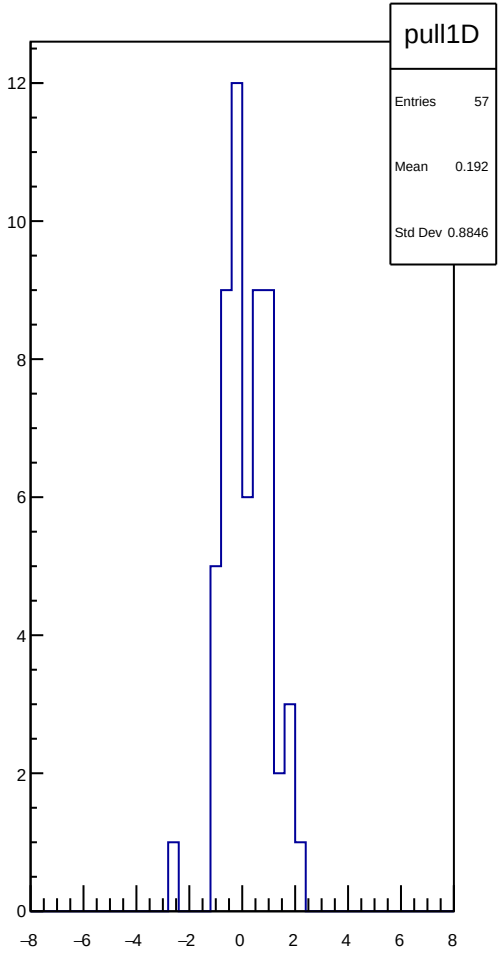

pull1D
Entries 57
Mean −0.1459
Std Dev 1.47

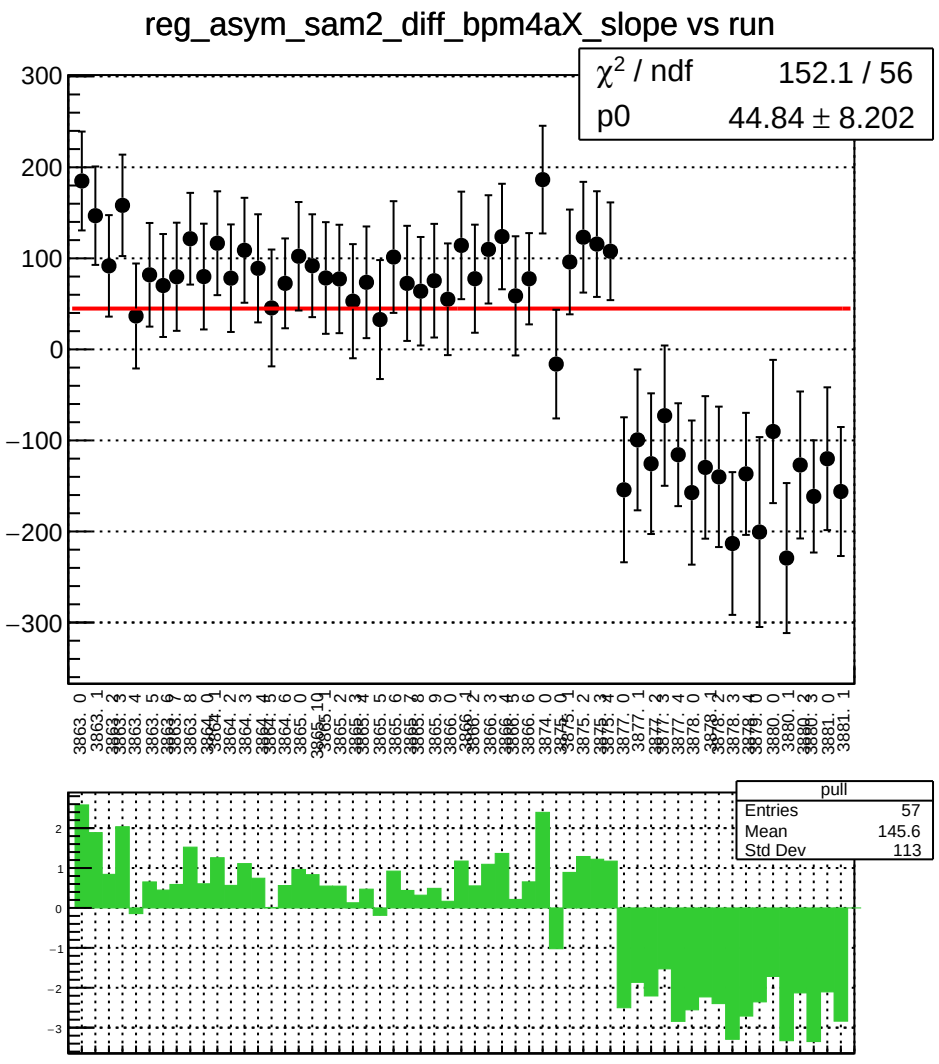

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 620.8 / 56
p0 −29.91 ± 0.246
pull
Entries 57
Mean −176.3
Std Dev 207.6
pull1D
Entries 57
Mean 0.2155
Std Dev 3.293

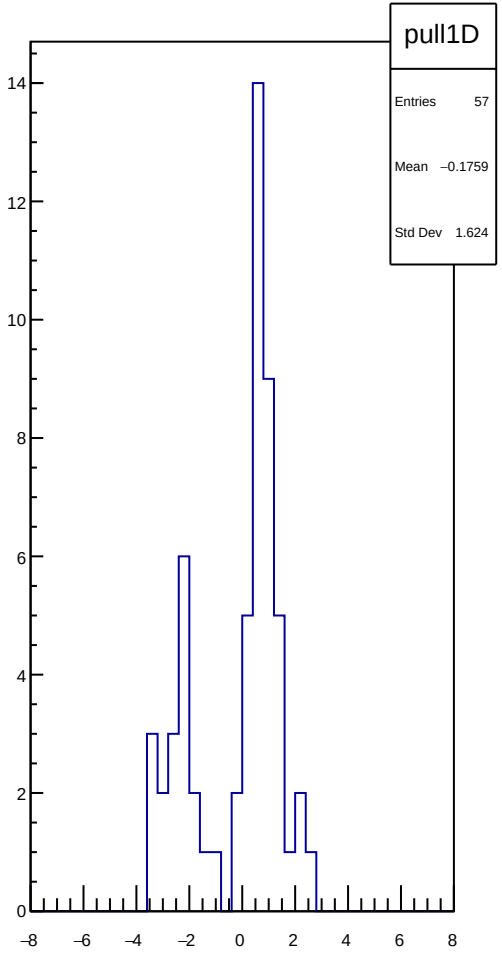

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 94.69 / 56
p0 −33.09 ± 1.901
pull
Entries 57
Mean 91.41
Std Dev 53.8

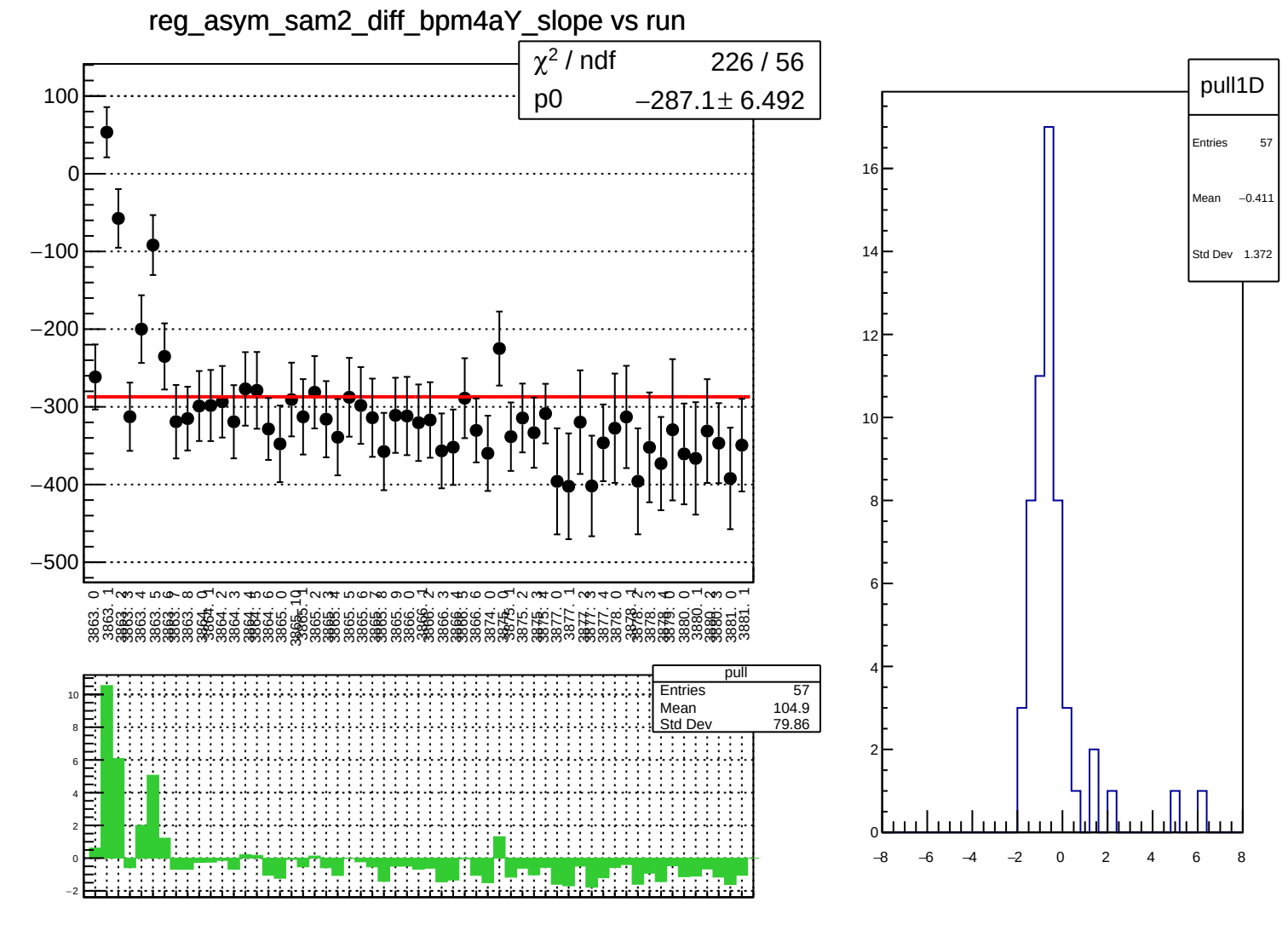

pull1D
Entries 57
Mean 0.1281
Std Dev 1.282

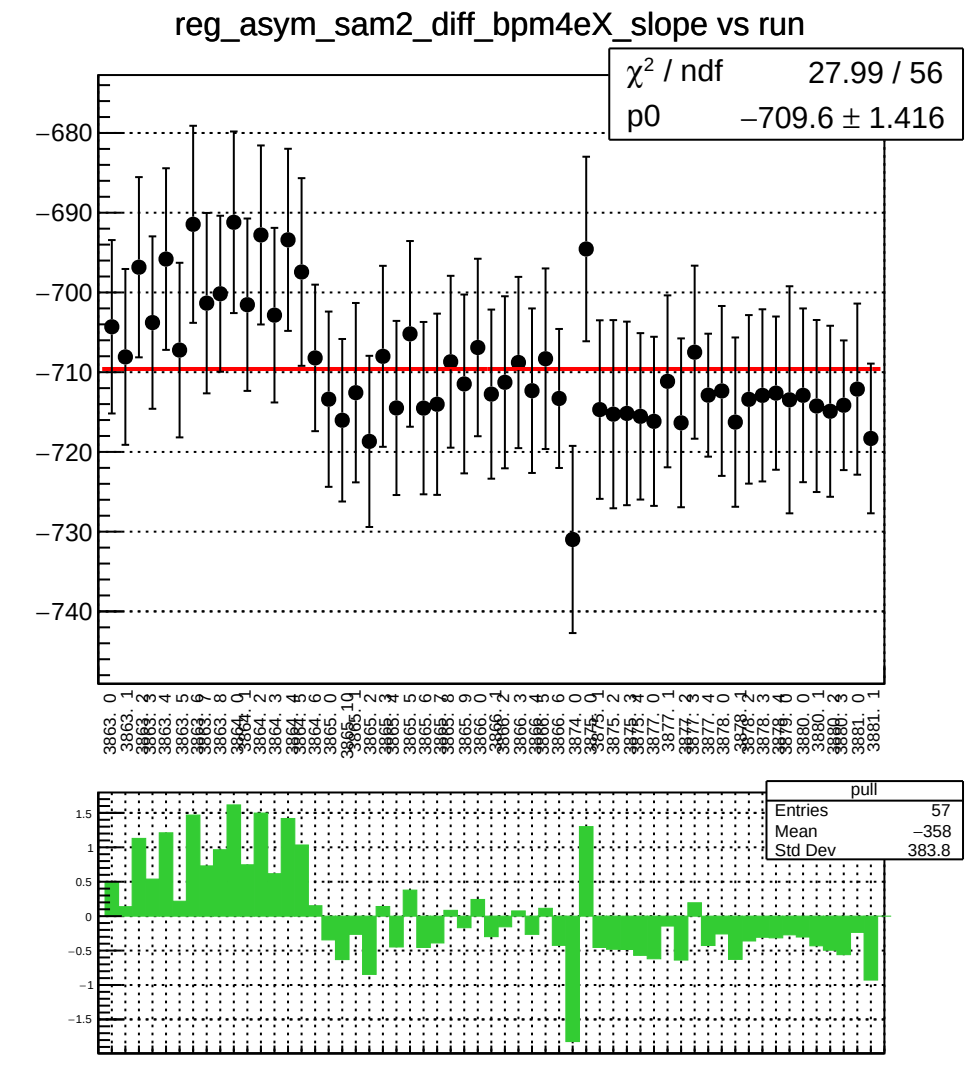

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 46.7 / 56
p0 −2.739 ± 0.3324
pull
Entries 57
Mean 12.77
Std Dev 27.27

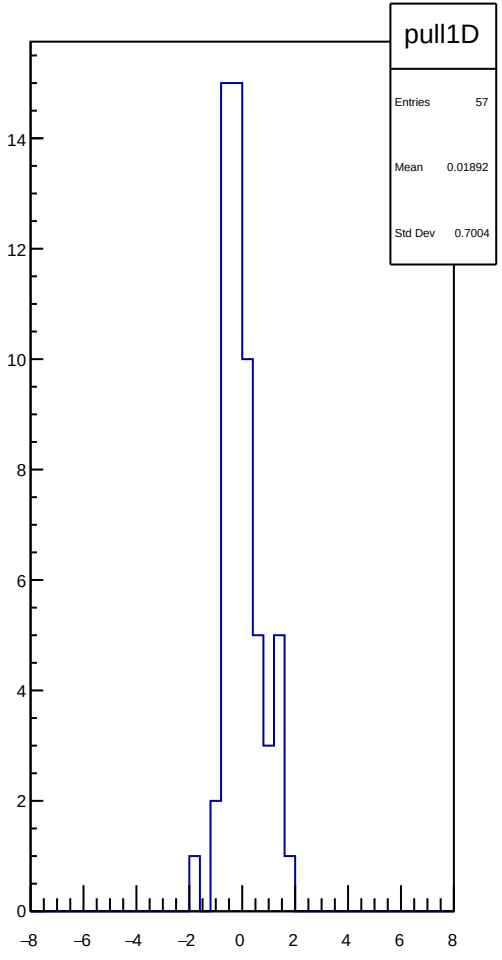

pull1D
Entries 57
Mean 0.192
Std Dev 0.8846

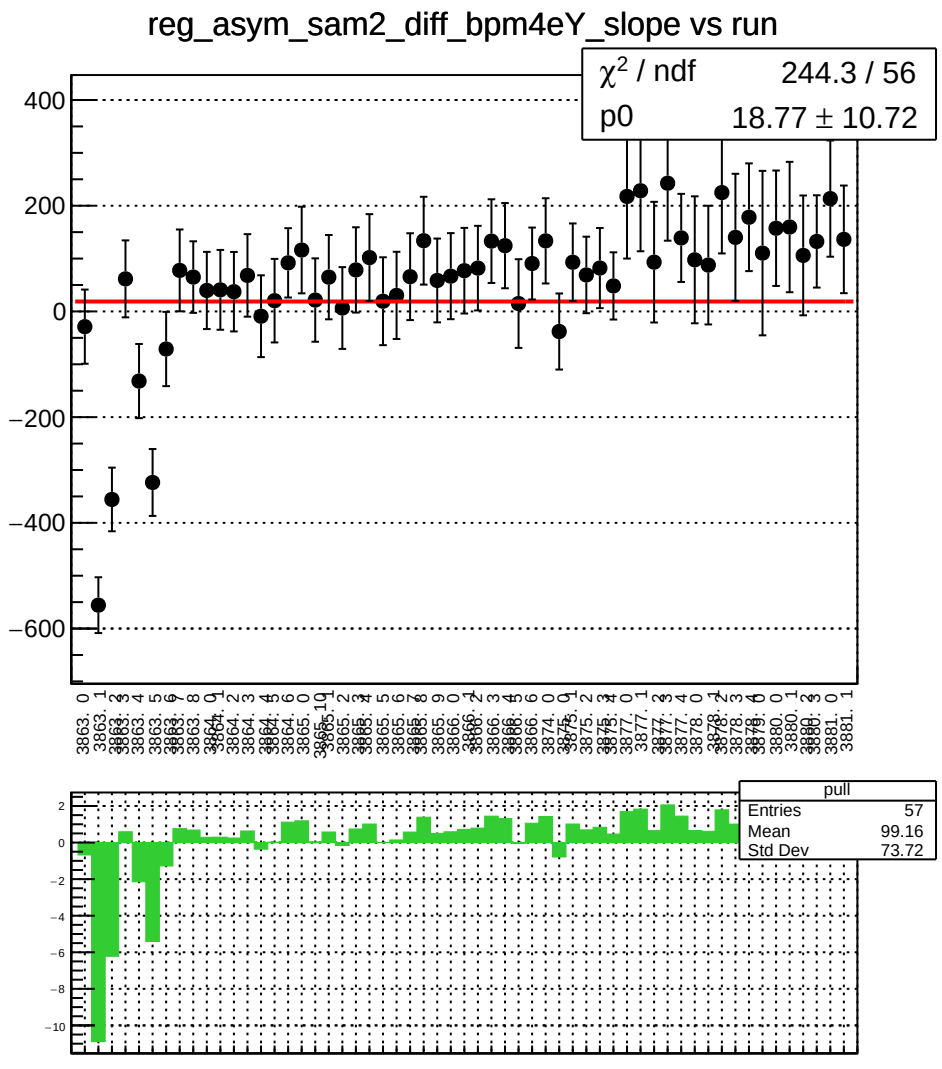

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 152.1 / 56
p0 44.84 ± 8.202
pull
Entries 57
Mean 145.6
Std Dev 113

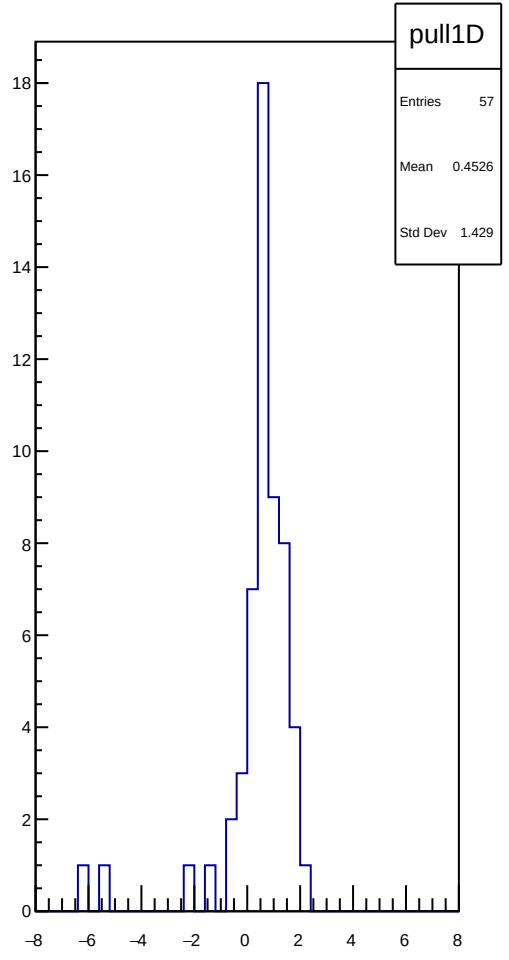

pull1D
Entries 57
Mean −0.1759
Std Dev 1.624

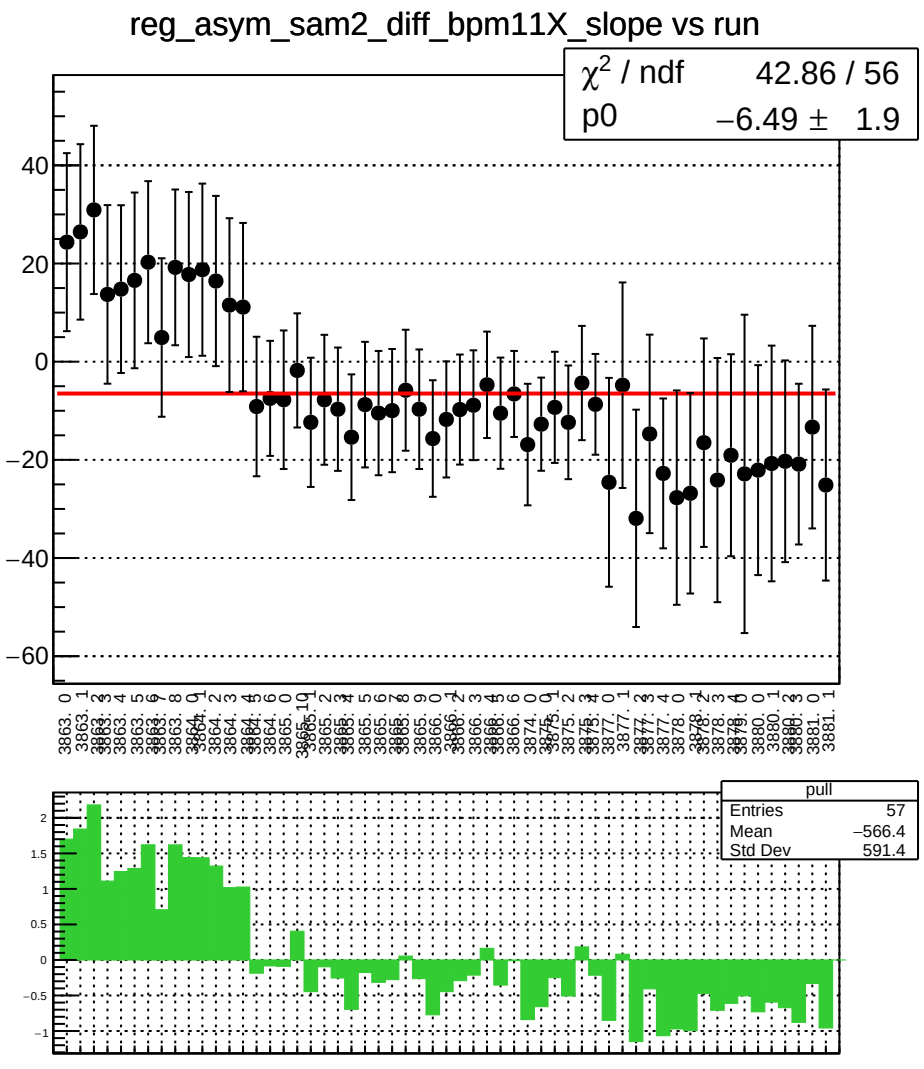

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 226 / 56
p0 −287.1± 6.492
pull
Entries 57
Mean 104.9
Std Dev 79.86
pull1D
Entries 57
Mean −0.411
Std Dev 1.372

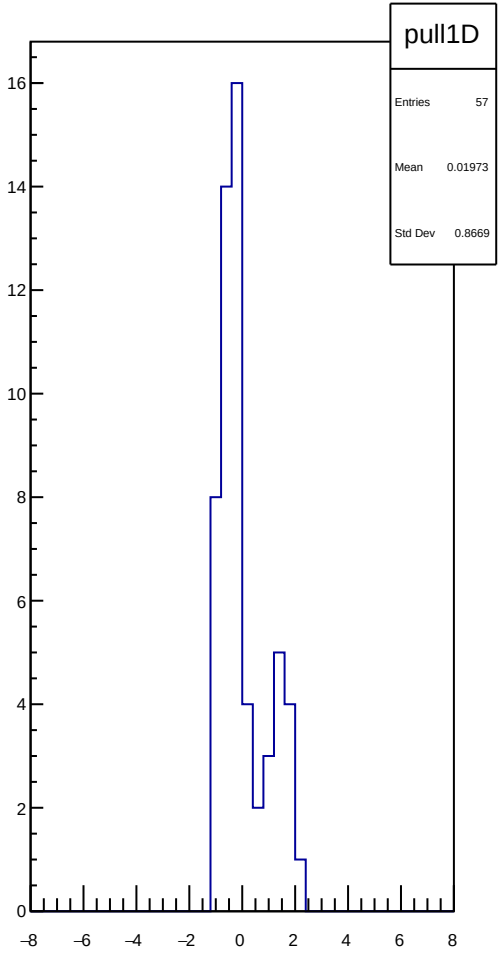

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 27.99 / 56
p0 −709.6 ± 1.416
pull
Entries 57
Mean −358
Std Dev 383.8

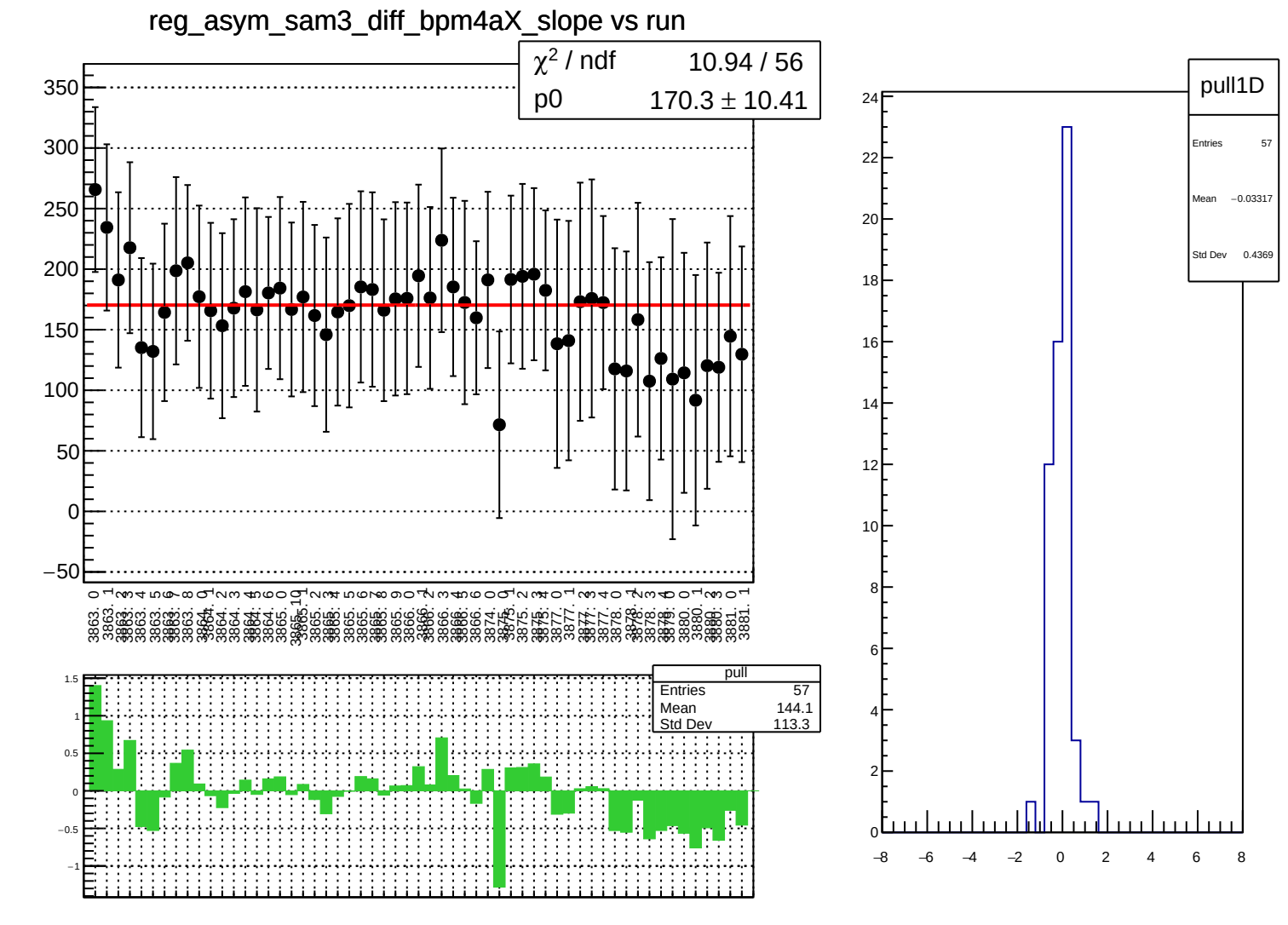

pull1D
Entries 57
Mean 0.01892
Std Dev 0.7004

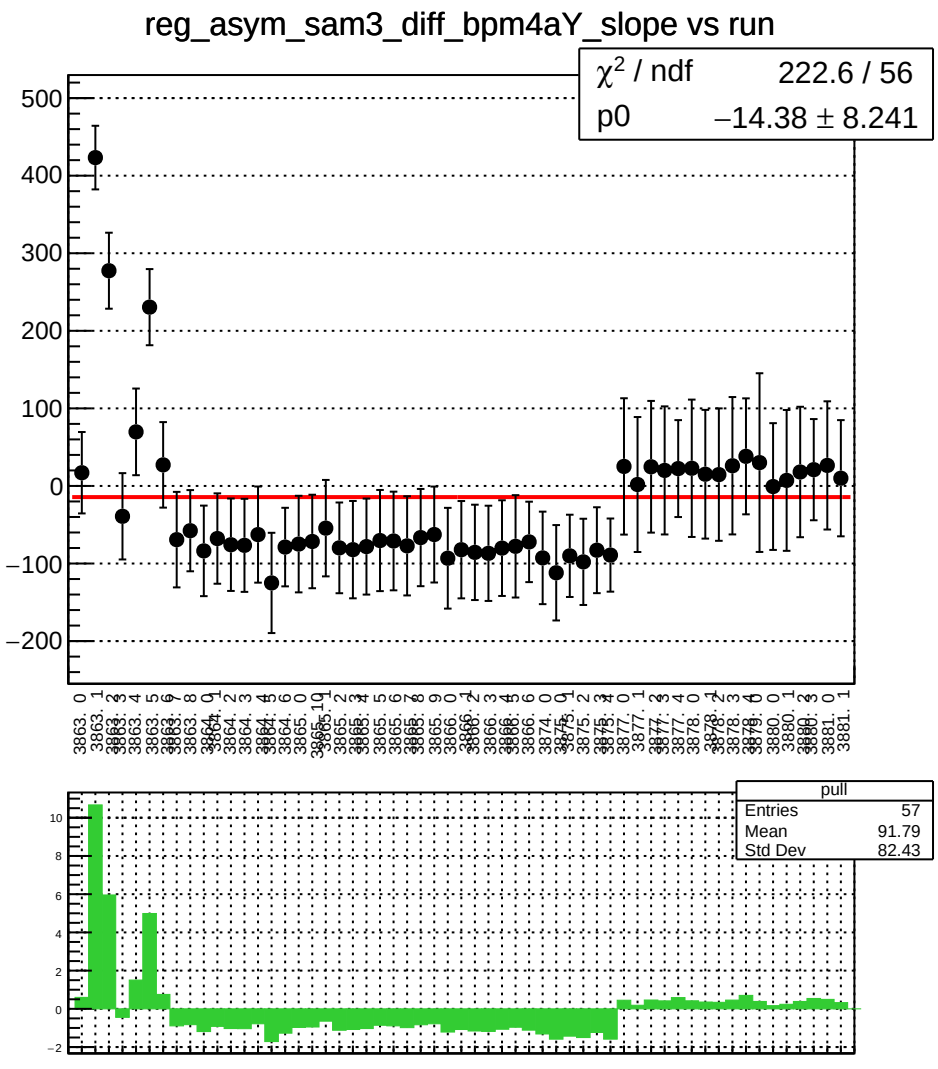

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 244.3 / 56
p0 18.77 ± 10.72
400
200
0
−200
−400
−600
pull
Entries 57
Mean 99.16
Std Dev 73.72
2
0
−2
−4
−6
−8
−10

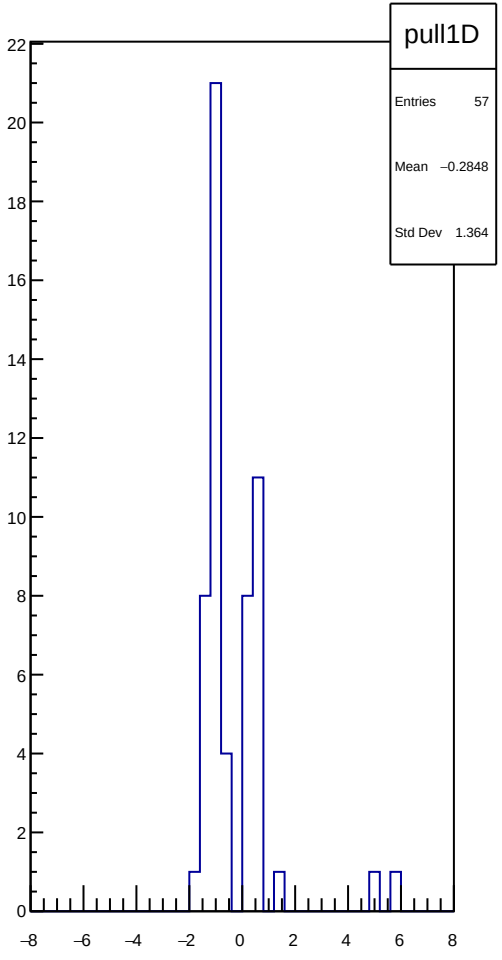

pull1D
Entries 57
Mean 0.4526
Std Dev 1.429
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

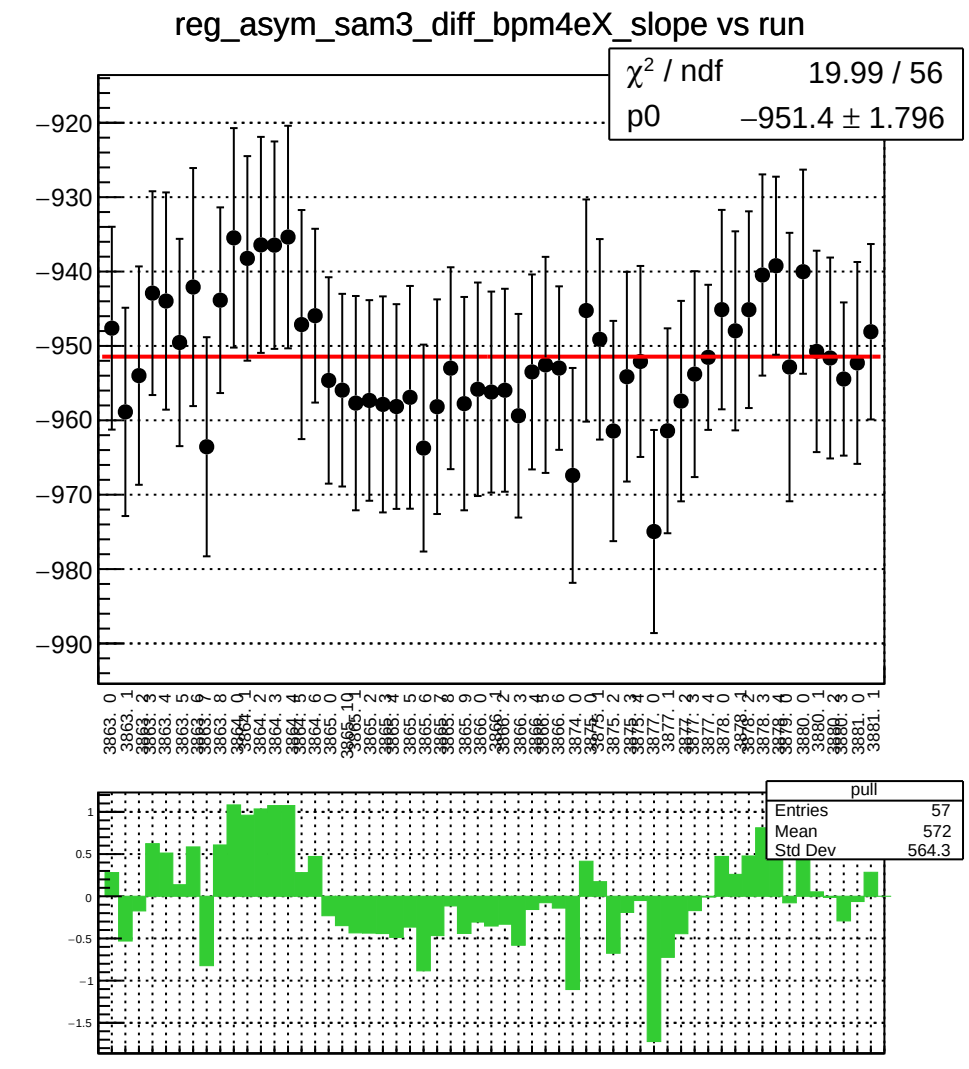

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 42.86 / 56
p0 −6.49 ± 1.9
pull
Entries 57
Mean −566.4
Std Dev 591.4

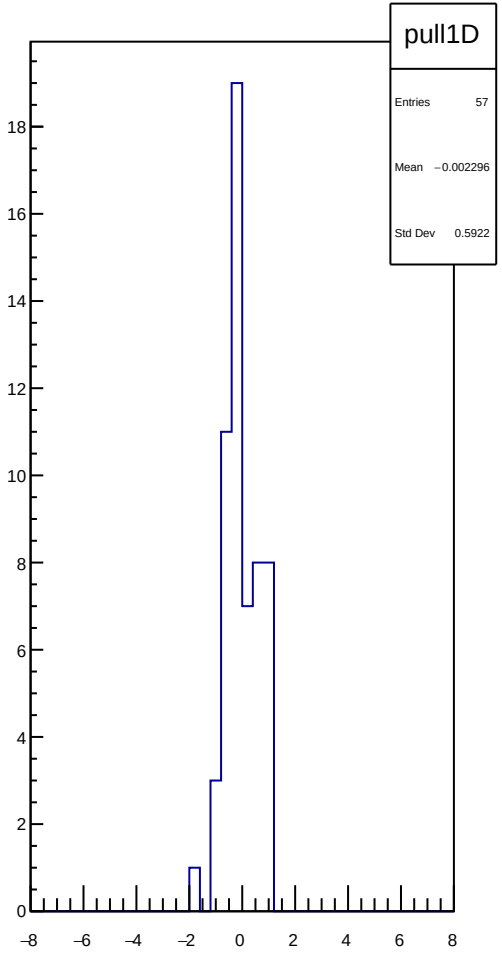

pull1D
Entries 57
Mean 0.01973
Std Dev 0.8669

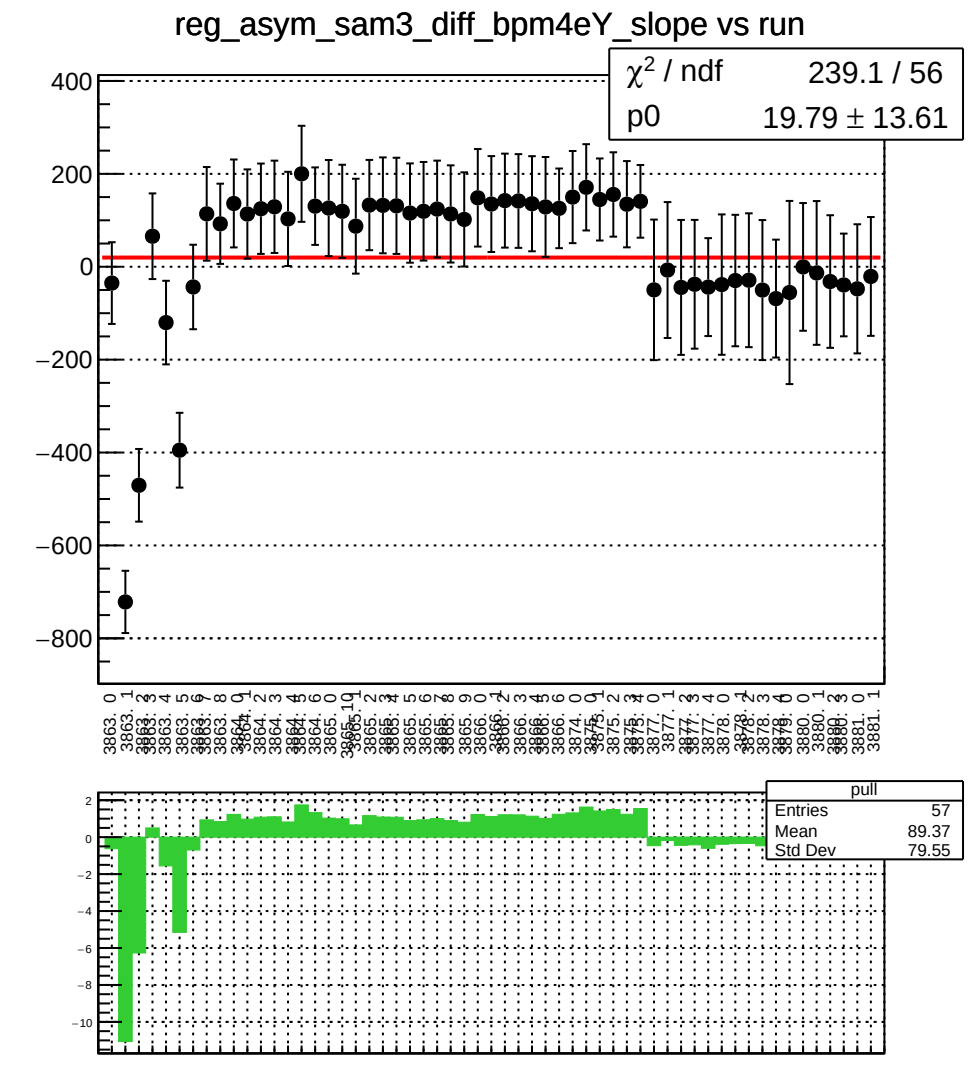

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 10.94 / 56
p0 170.3 ± 10.41
pull
Entries 57
Mean 144.1
Std Dev 113.3
pull1D
Entries 57
Mean −0.03317
Std Dev 0.4369

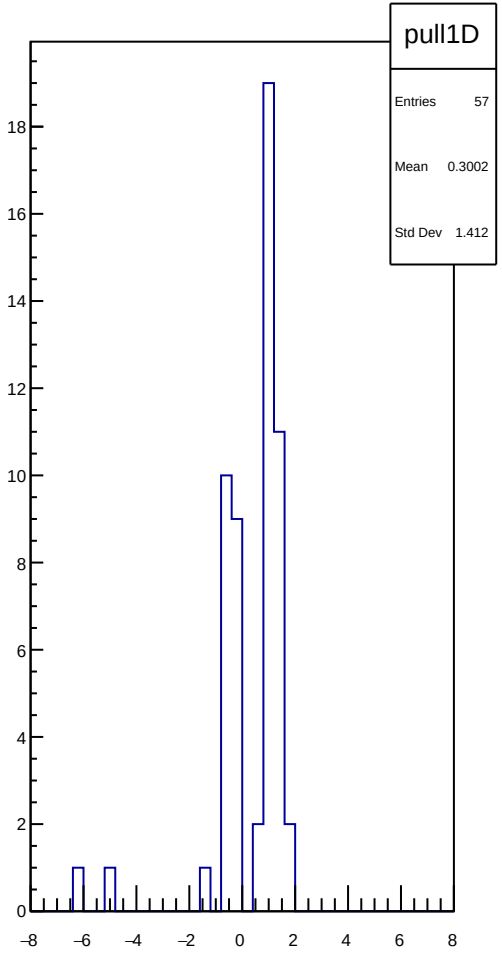

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 222.6 / 56
p0 −14.38 ± 8.241
pull
Entries 57
Mean 91.79
Std Dev 82.43

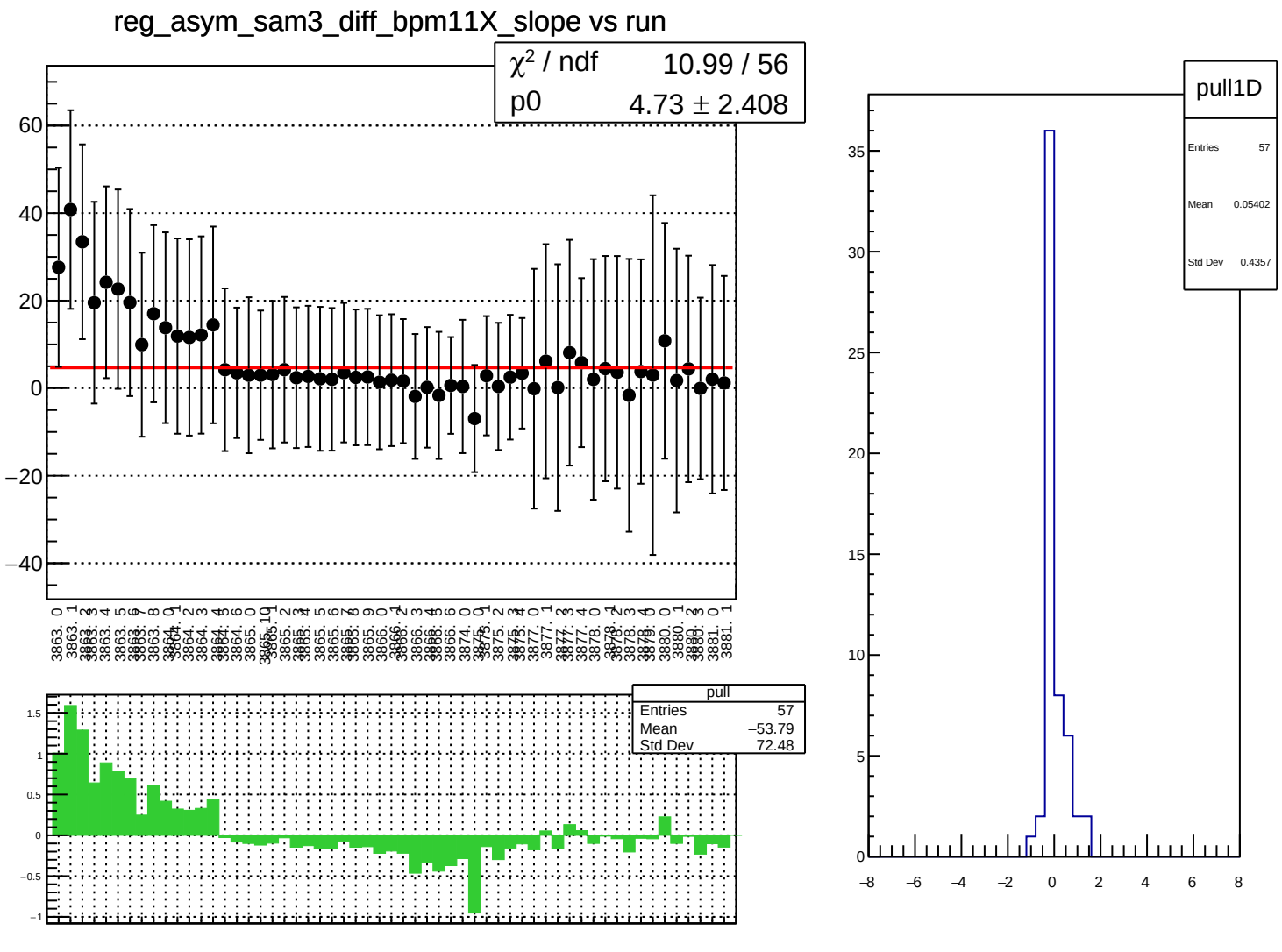

pull1D
Entries 57
Mean −0.2848
Std Dev 1.364

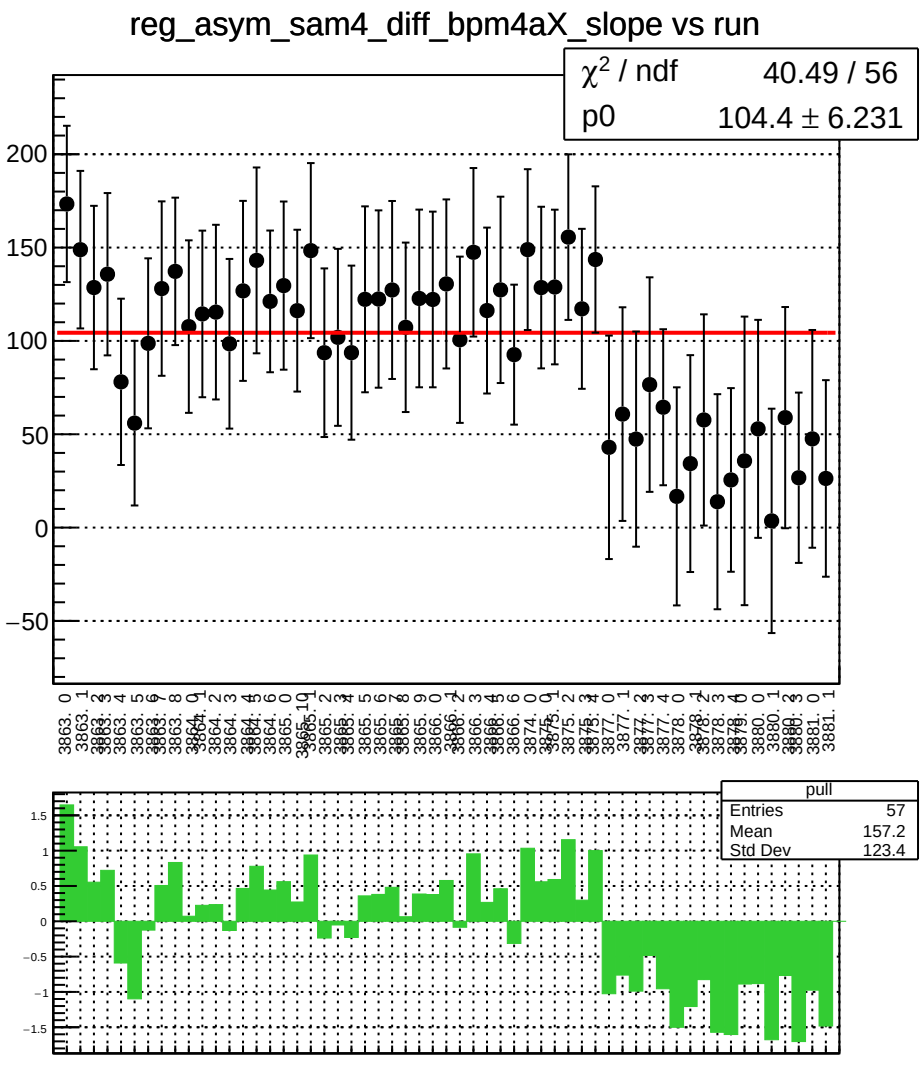

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 19.99 / 56
p0 −951.4 ± 1.796
pull
Entries 57
Mean 572
Std Dev 564.3

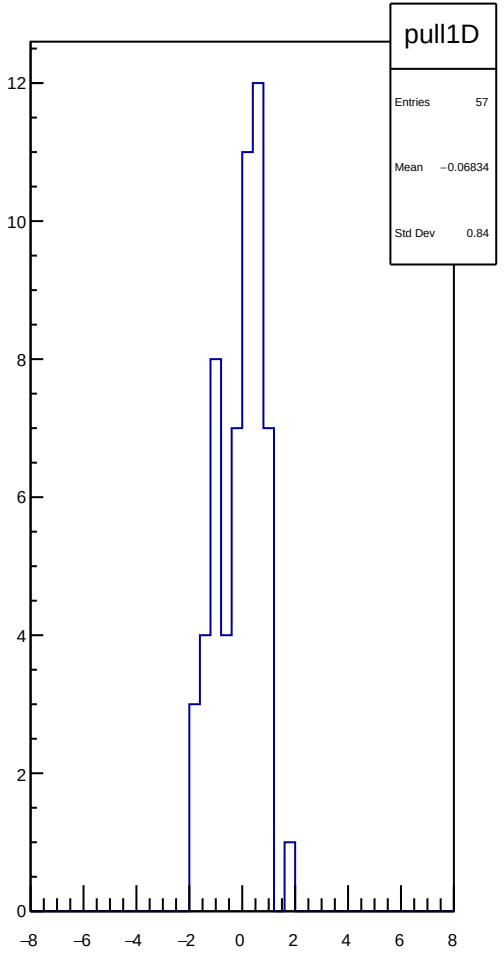

pull1D
Entries 57
Mean −0.002296
Std Dev 0.5922

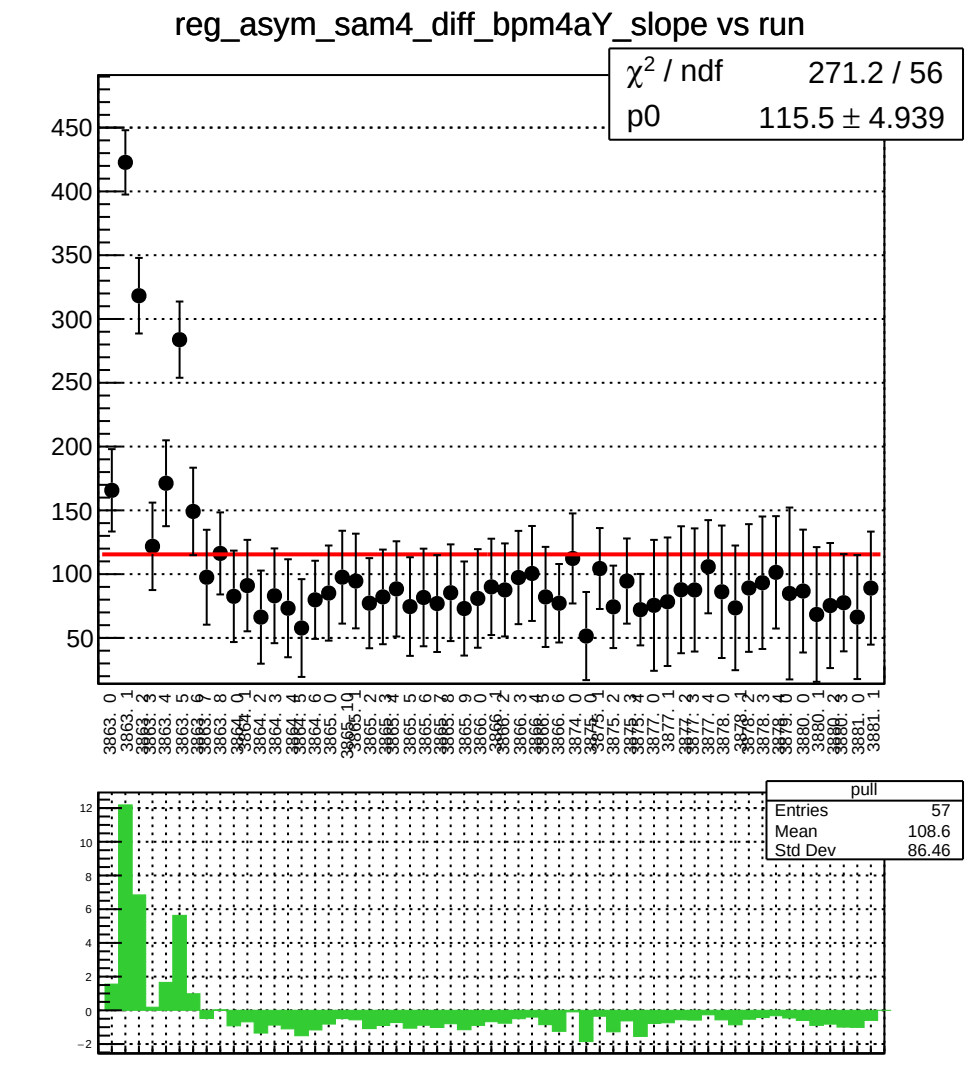

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 239.1 / 56
p0 19.79 ± 13.61
pull
Entries 57
Mean 89.37
Std Dev 79.55

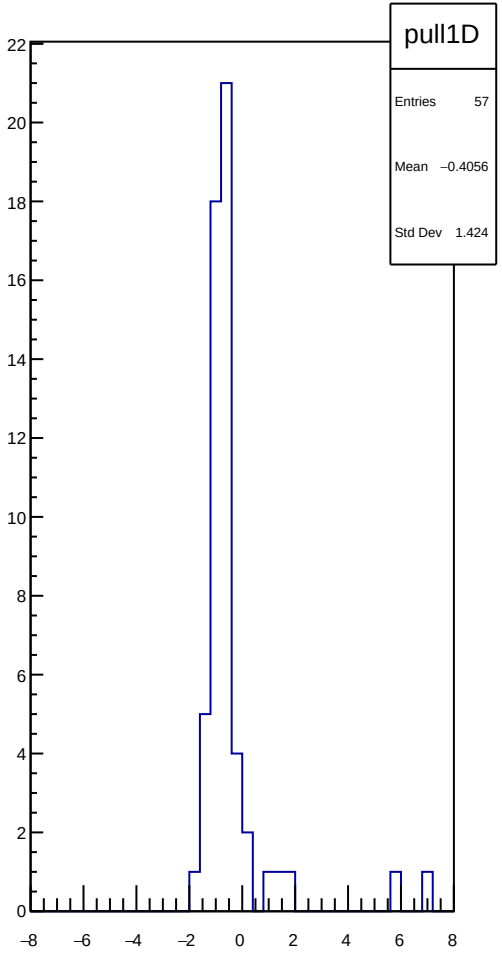

pull1D
Entries 57
Mean 0.3002
Std Dev 1.412

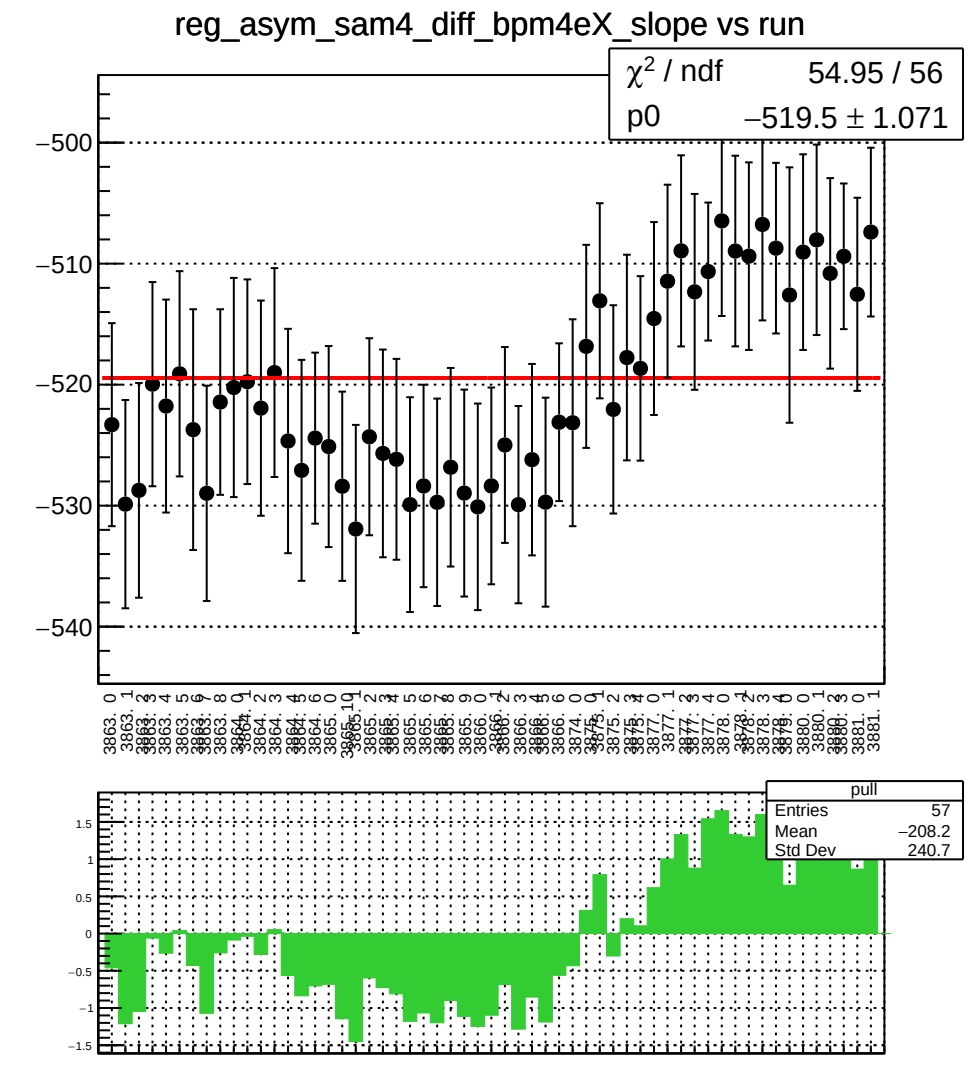

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 10.99 / 56
p0 4.73 ± 2.408
pull
Entries 57
Mean −53.79
Std Dev 72.48
pull1D
Entries 57
Mean 0.05402
Std Dev 0.4357

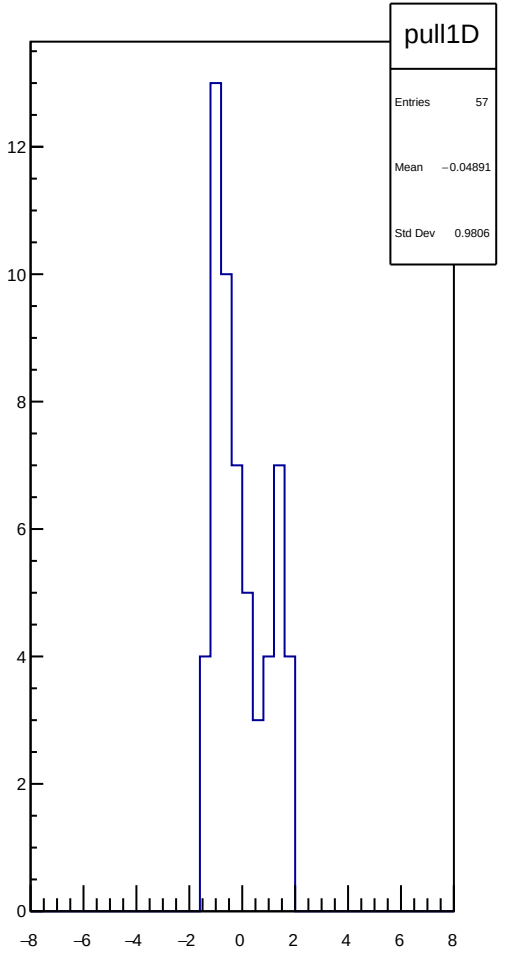

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 40.49 / 56
p0 104.4 ± 6.231
pull
Entries 57
Mean 157.2
Std Dev 123.4

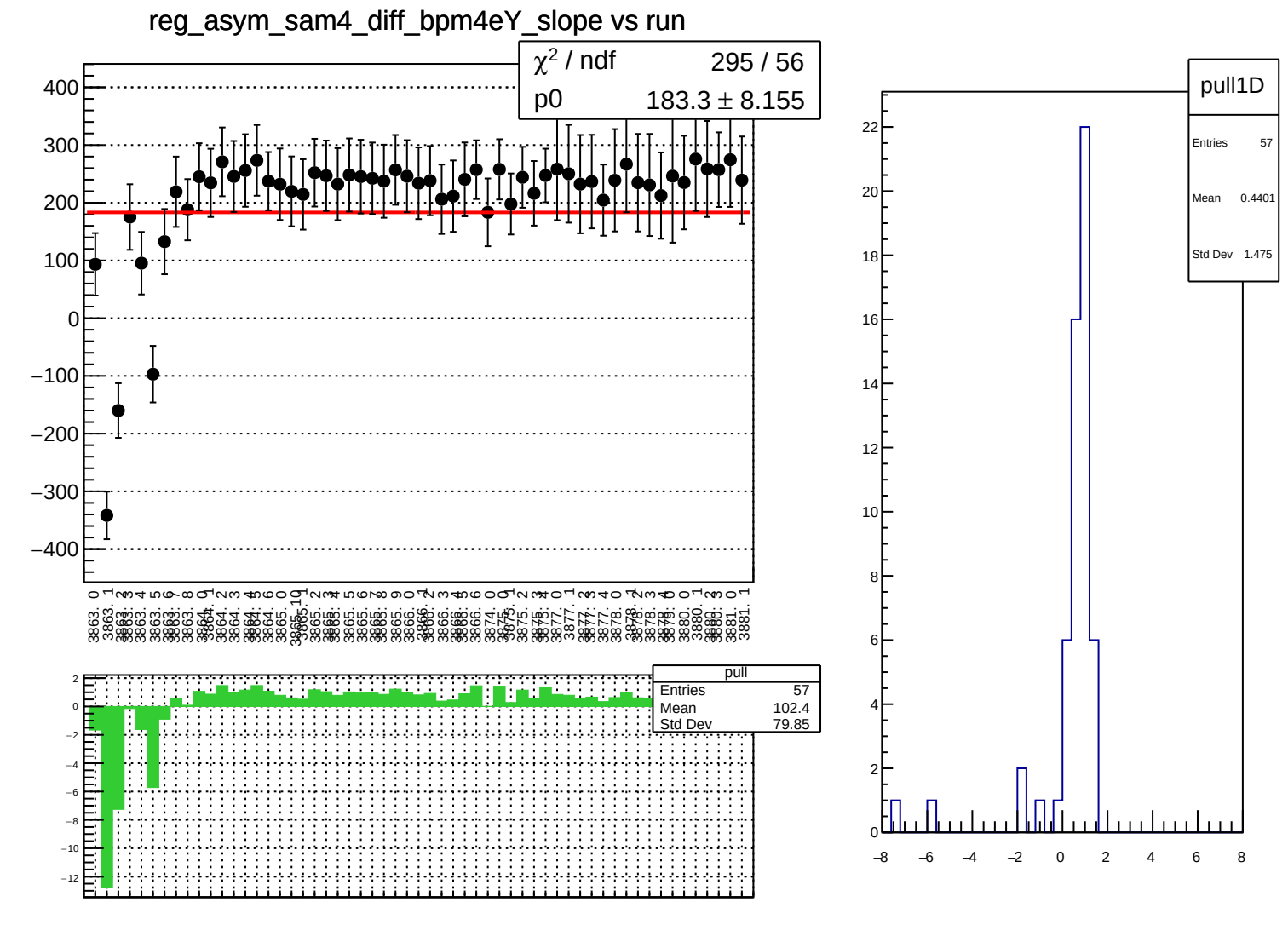

pull1D
Entries 57
Mean −0.06834
Std Dev 0.84

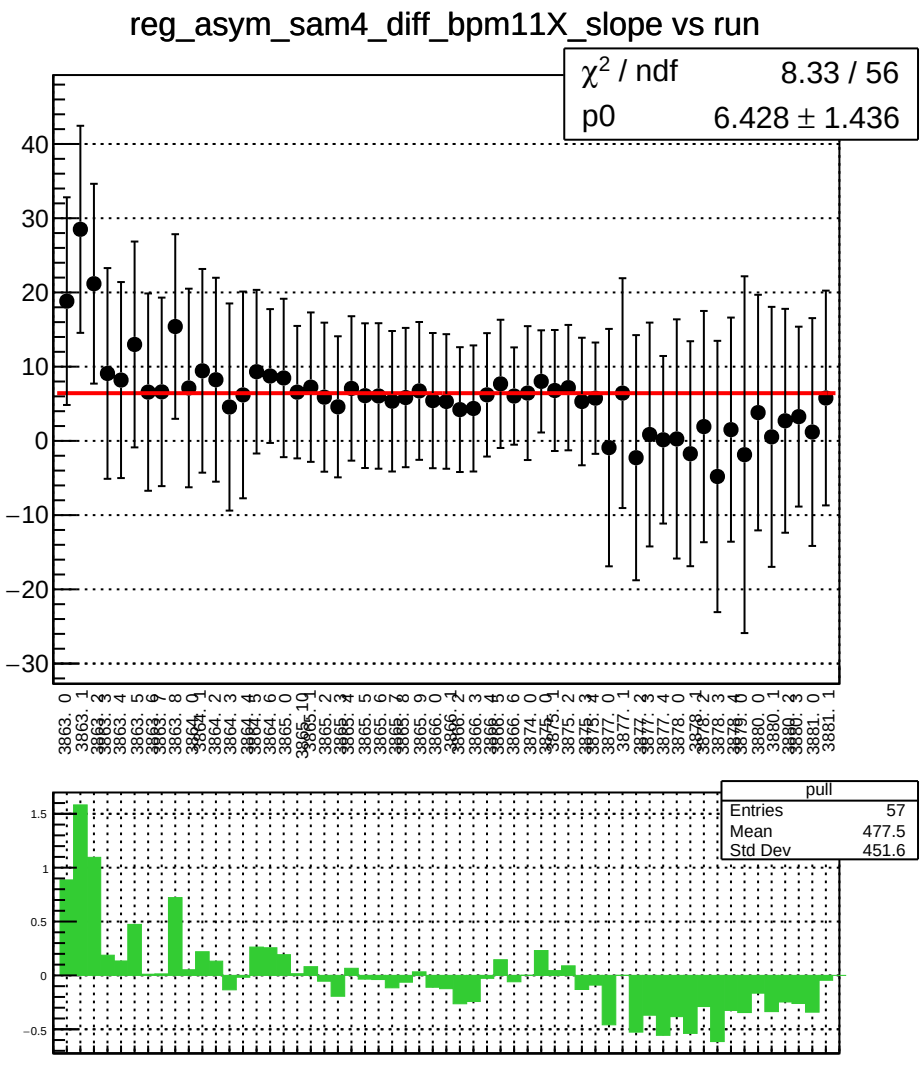

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 271.2 / 56
p0 115.5 ± 4.939
pull
Entries 57
Mean 108.6
Std Dev 86.46

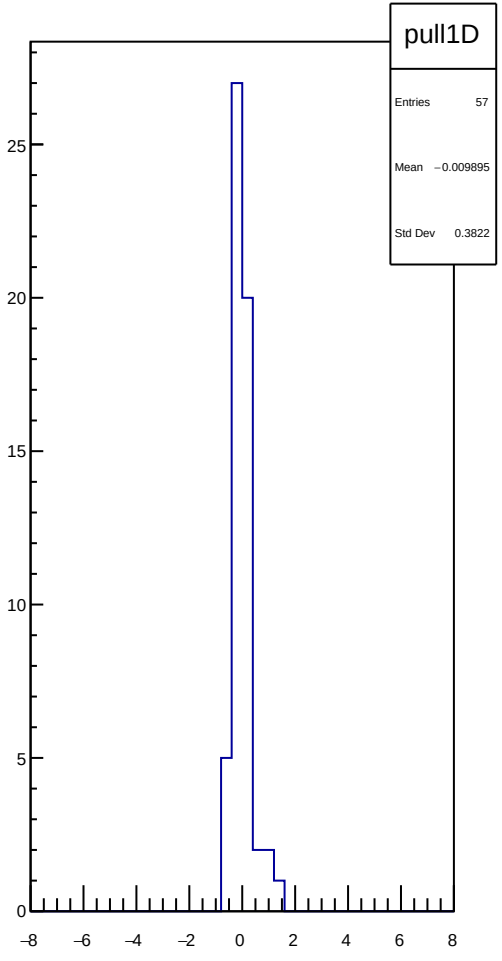

pull1D
Entries 57
Mean −0.4056
Std Dev 1.424

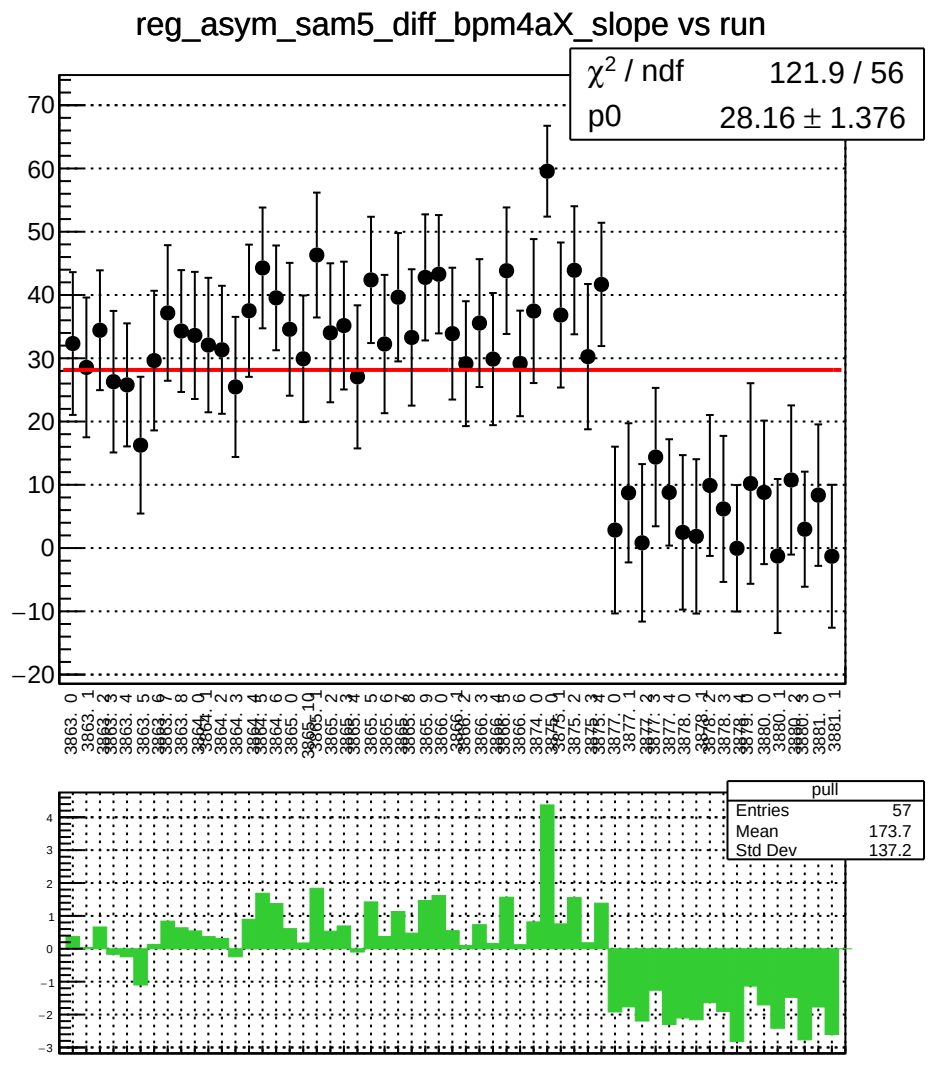

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 54.95 / 56
p0 −519.5 ± 1.071
−500
−510
−520
−530
−540
pull
Entries 57
Mean −208.2
Std Dev 240.7
1.5
1
0.5
0
−0.5
−1
−1.5

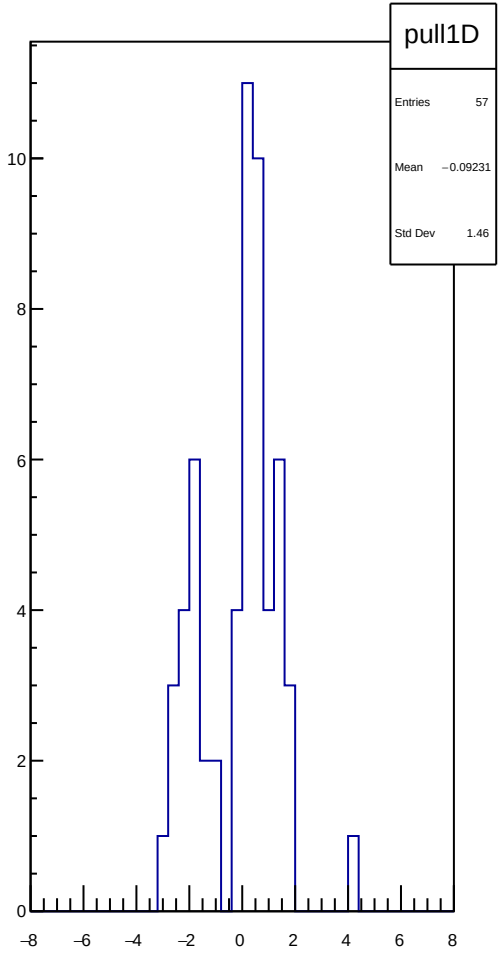

pull1D
Entries 57
Mean −0.04891
Std Dev 0.9806
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

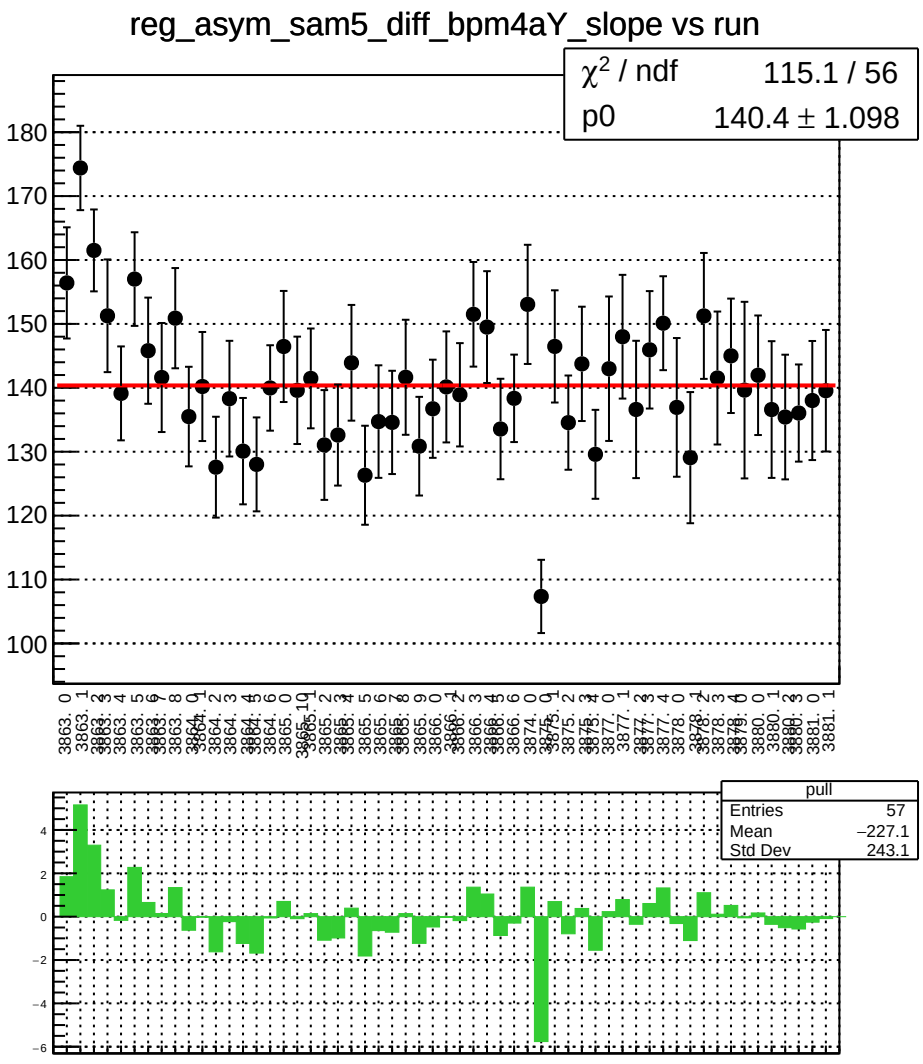

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 295 / 56
p0 183.3 ± 8.155
pull
Entries 57
Mean 102.4
Std Dev 79.85
pull1D
Entries 57
Mean 0.4401
Std Dev 1.475

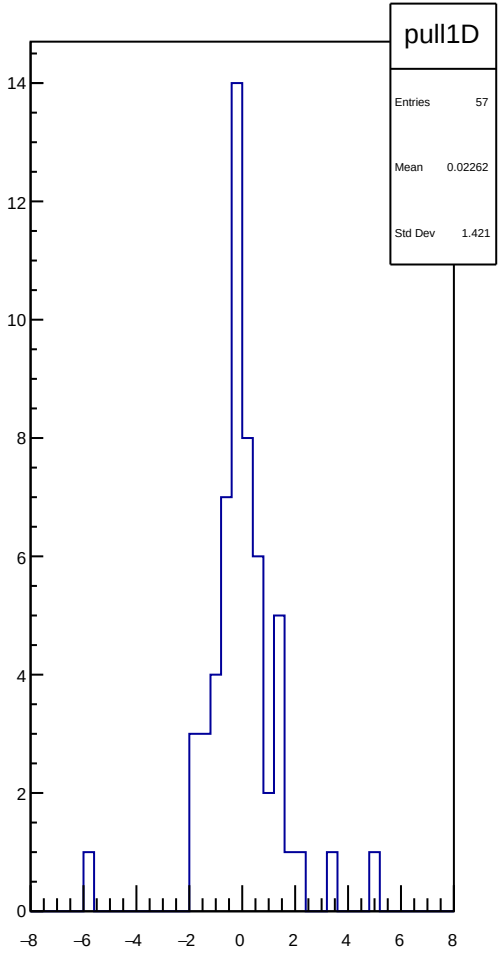

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 8.33 / 56
p0 6.428 ± 1.436
pull
Entries 57
Mean 477.5
Std Dev 451.6

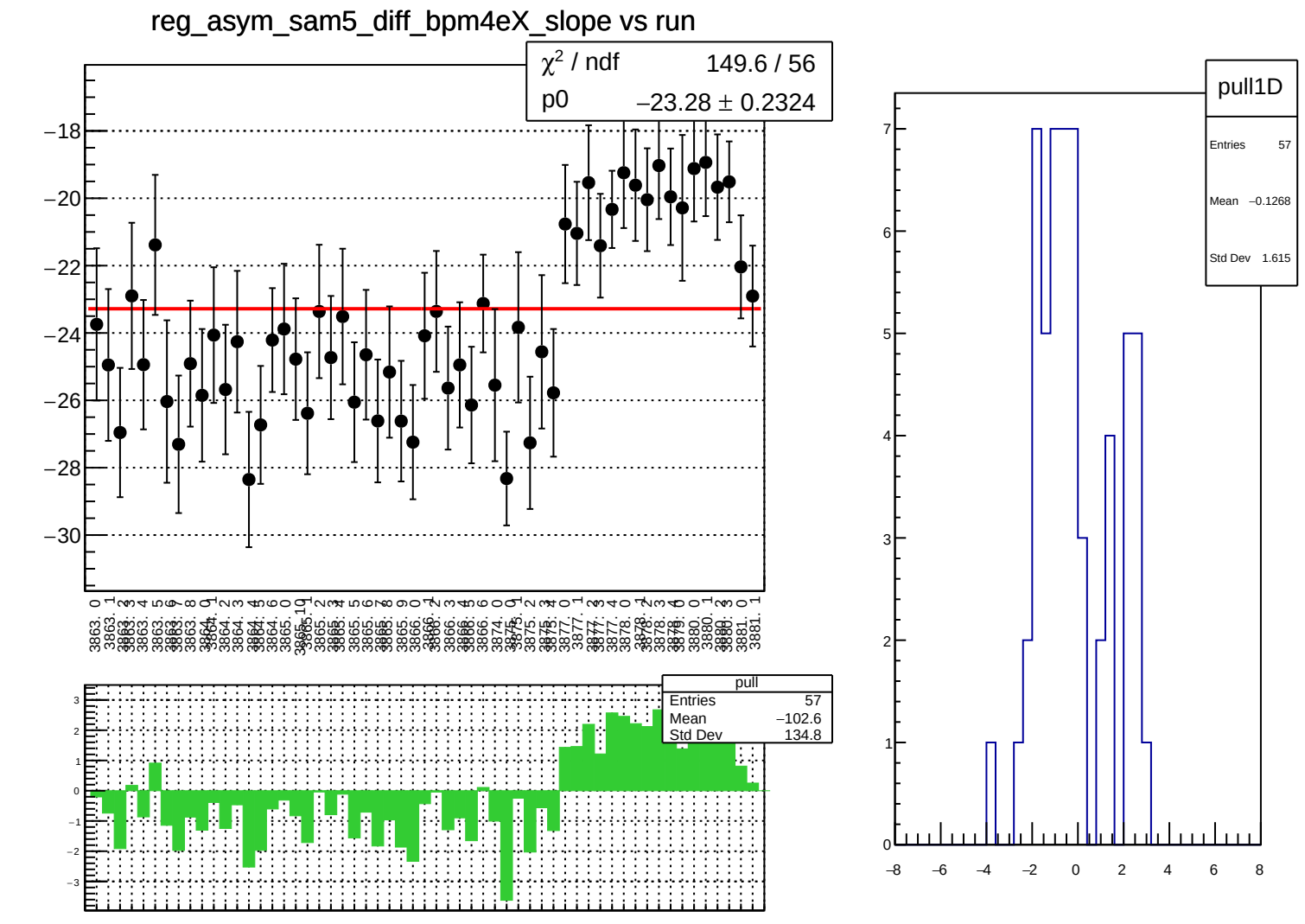

pull1D
Entries 57
Mean −0.009895
Std Dev 0.3822

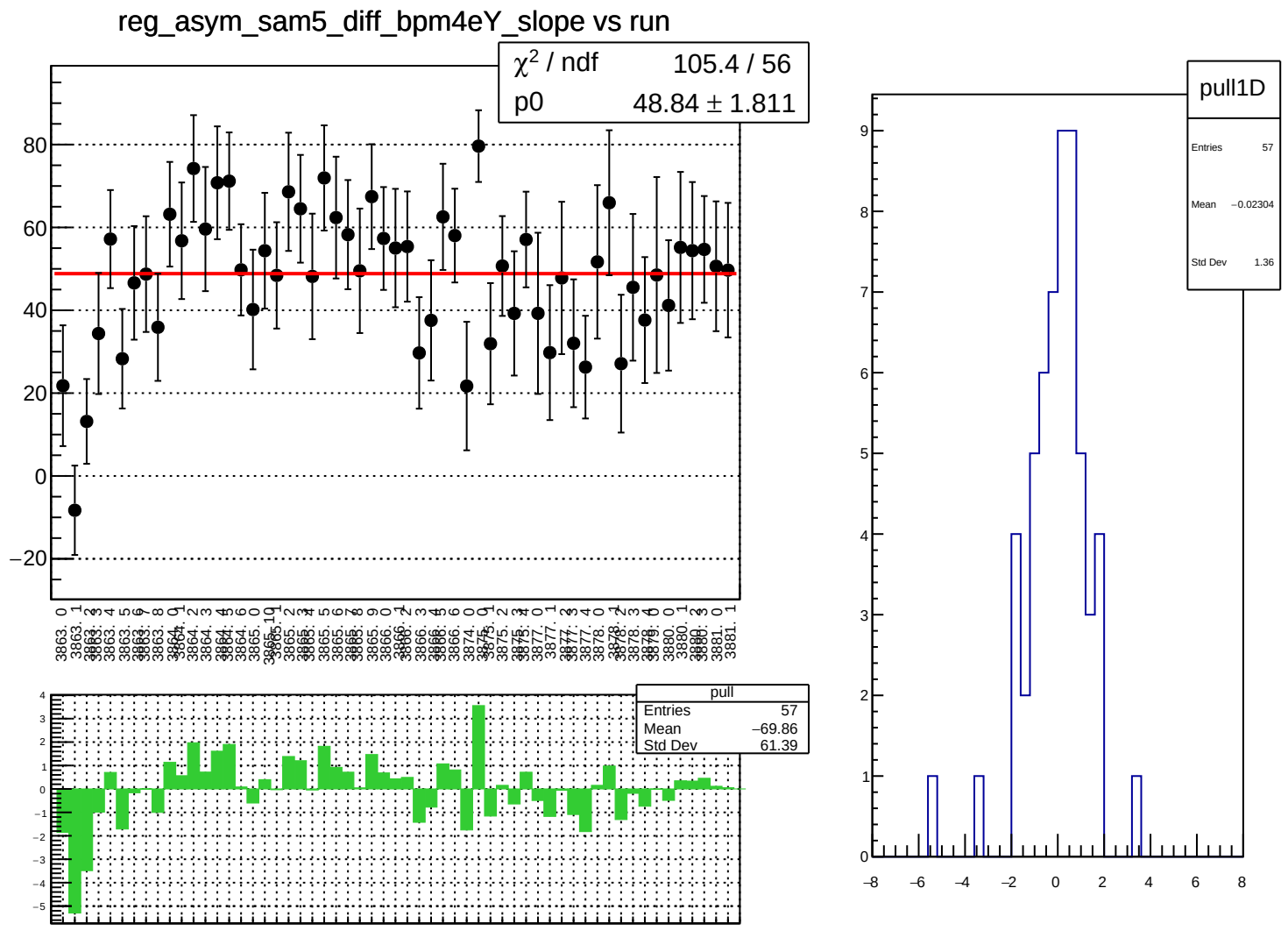

reg_asym_sam5_diff_bpm4aX_slope vs run
χ^2 / ndf 121.9 / 56
p0 28.16 ± 1.376
pull
Entries 57
Mean 173.7
Std Dev 137.2

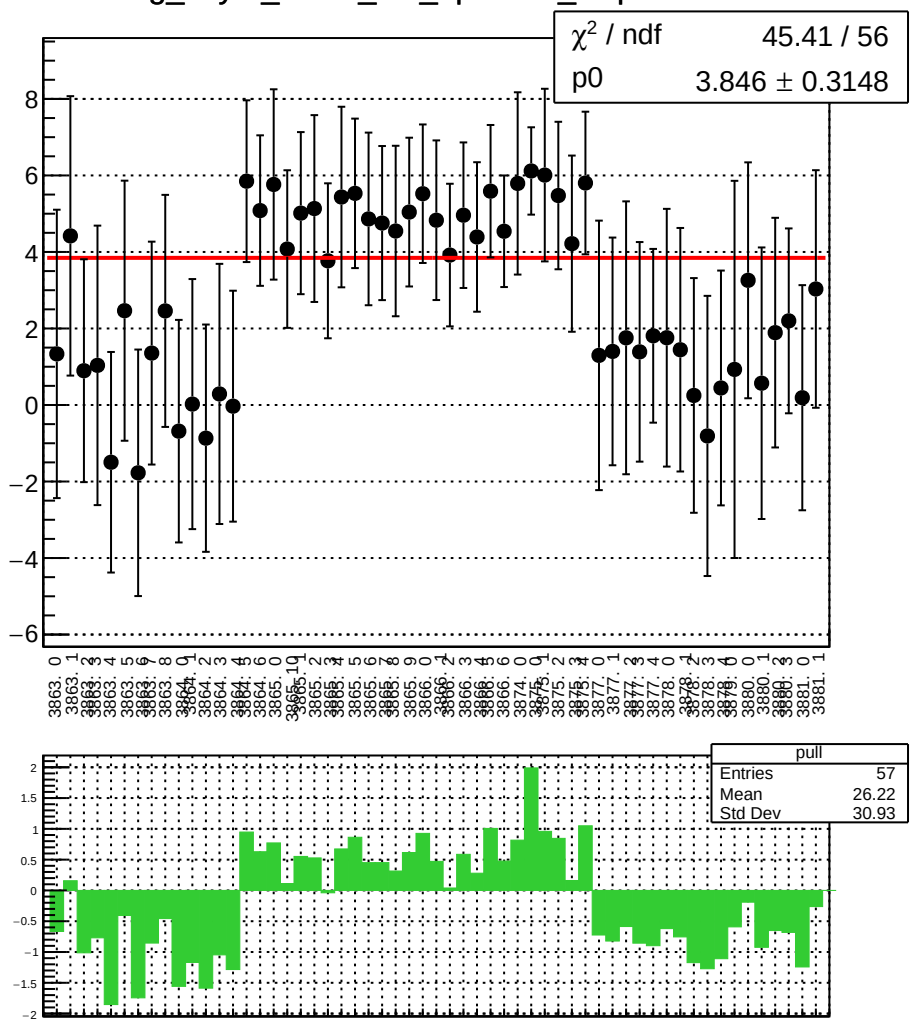

pull1D
Entries 57
Mean −0.09231
Std Dev 1.46

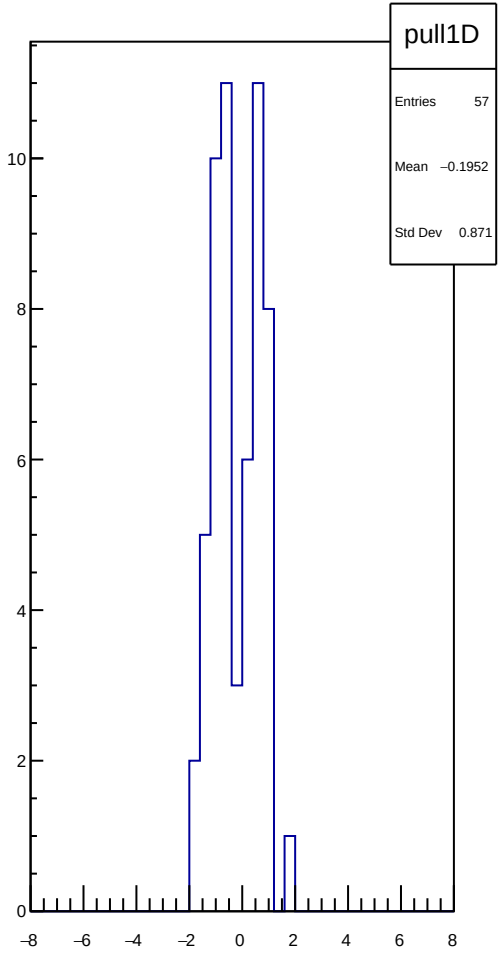

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 115.1 / 56
p0 140.4 ± 1.098
pull
Entries 57
Mean −227.1
Std Dev 243.1

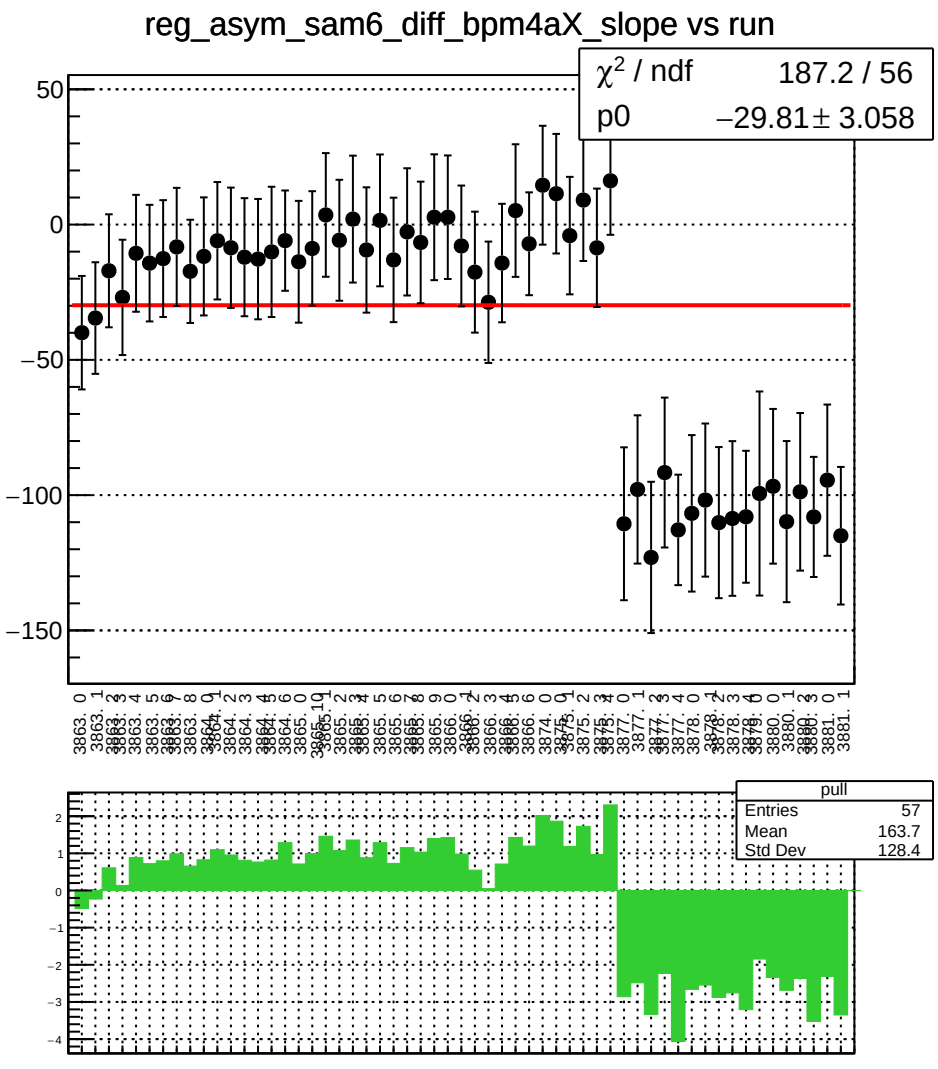

pull1D
Entries 57
Mean 0.02262
Std Dev 1.421

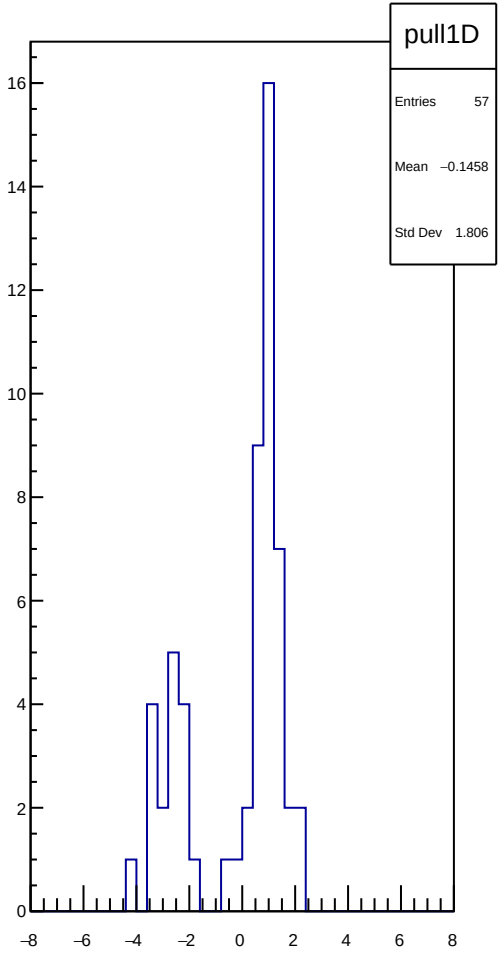

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 149.6 / 56
p0 −23.28 ± 0.2324
pull
Entries 57
Mean −102.6
Std Dev 134.8
pull1D
Entries 57
Mean −0.1268
Std Dev 1.615

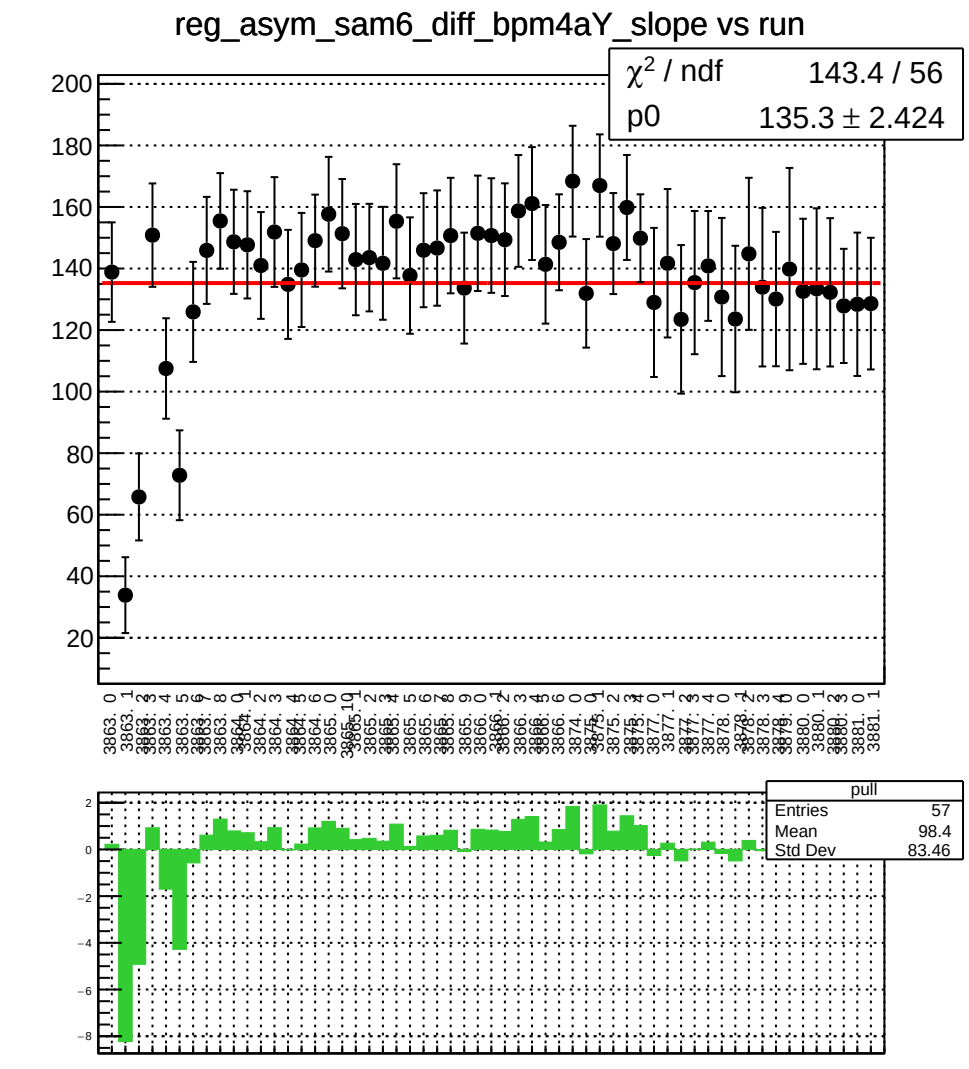

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 105.4 / 56
p0 48.84 ± 1.811
pull
Entries 57
Mean −69.86
Std Dev 61.39
pull1D
Entries 57
Mean −0.02304
Std Dev 1.36

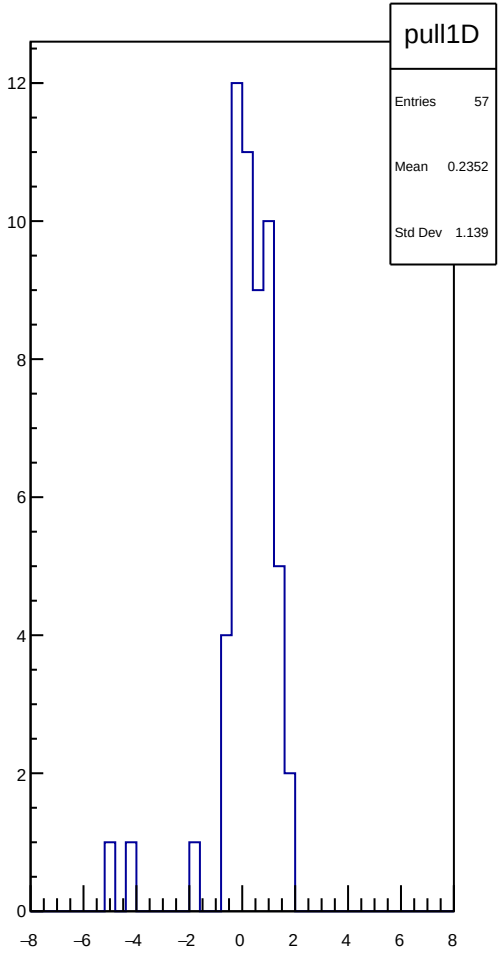

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 45.41 / 56
p0 3.846 ± 0.3148
pull
Entries 57
Mean 26.22
Std Dev 30.93

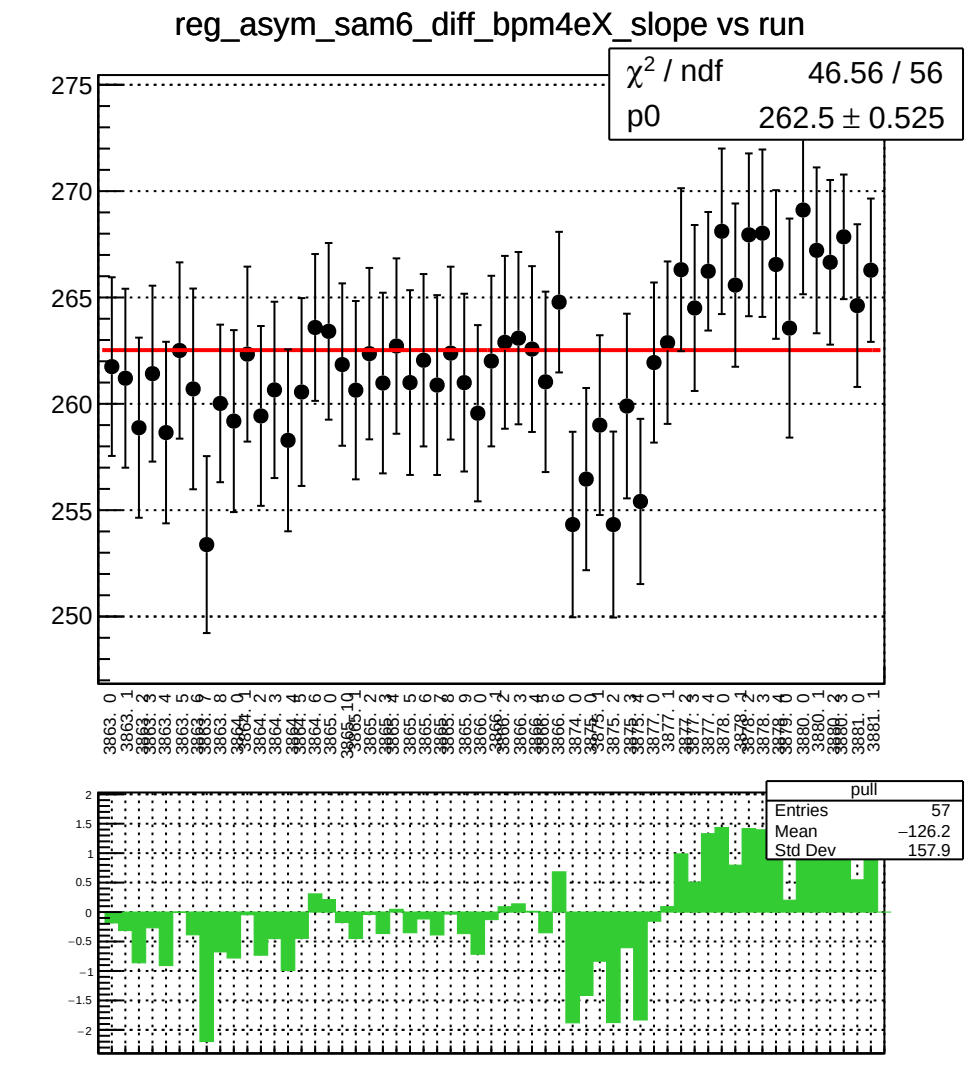

pull1D
Entries 57
Mean −0.1952
Std Dev 0.871

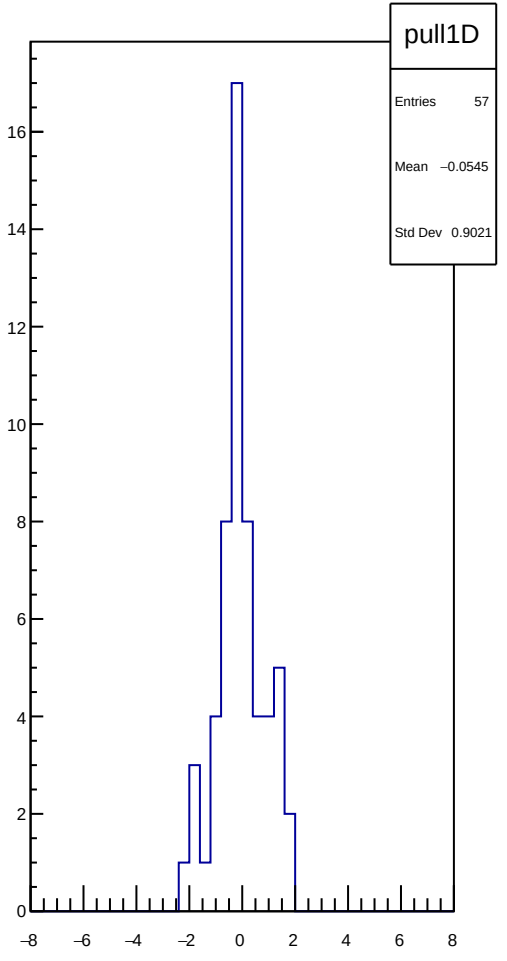

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 187.2 / 56
p0 −29.81 ± 3.058
pull
Entries 57
Mean 163.7
Std Dev 128.4

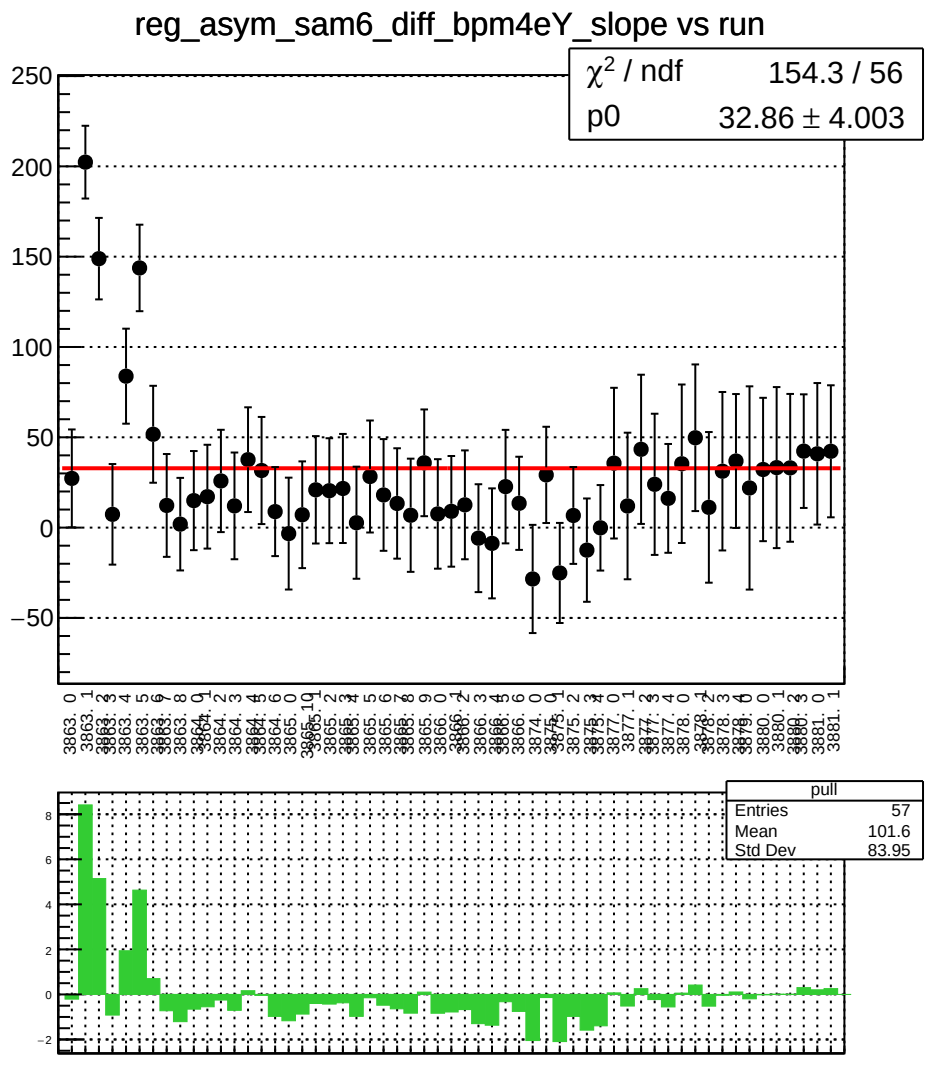

pull1D
Entries 57
Mean −0.1458
Std Dev 1.806

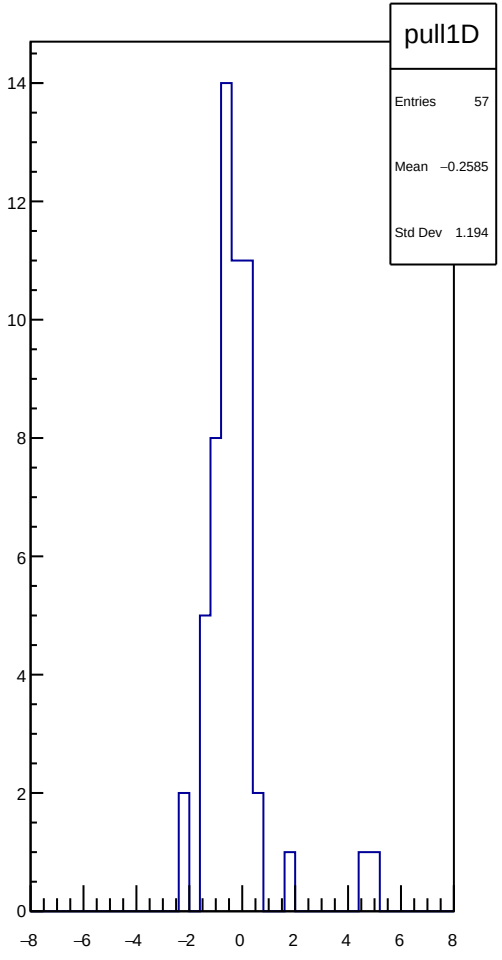

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 143.4 / 56
p0 135.3 ± 2.424
pull
Entries 57
Mean 98.4
Std Dev 83.46

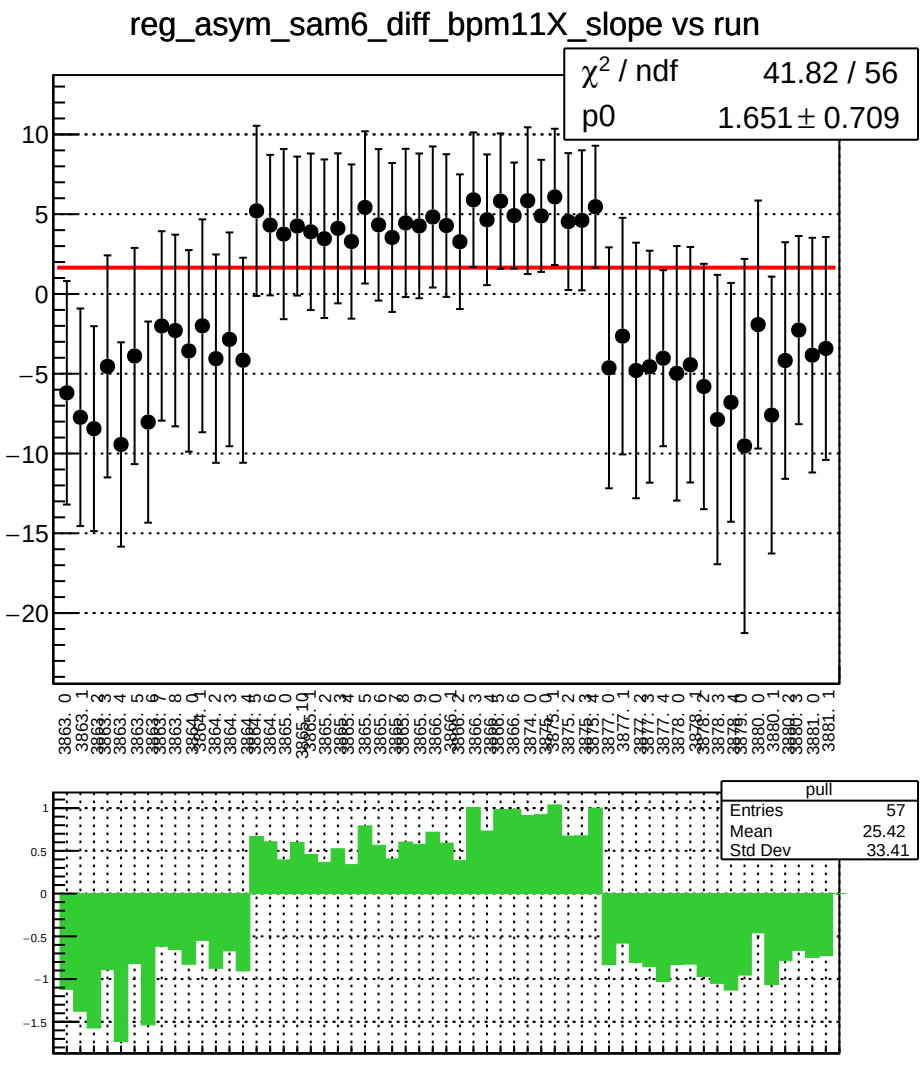

pull1D
Entries 57
Mean 0.2352
Std Dev 1.139

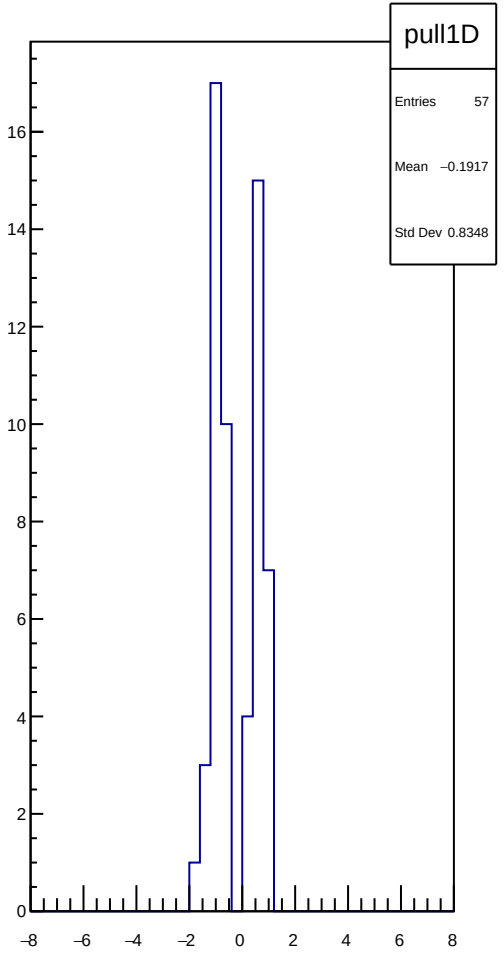

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 46.56 / 56
p0 262.5 ± 0.525
275
270
265
260
255
250
pull
Entries 57
Mean −126.2
Std Dev 157.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

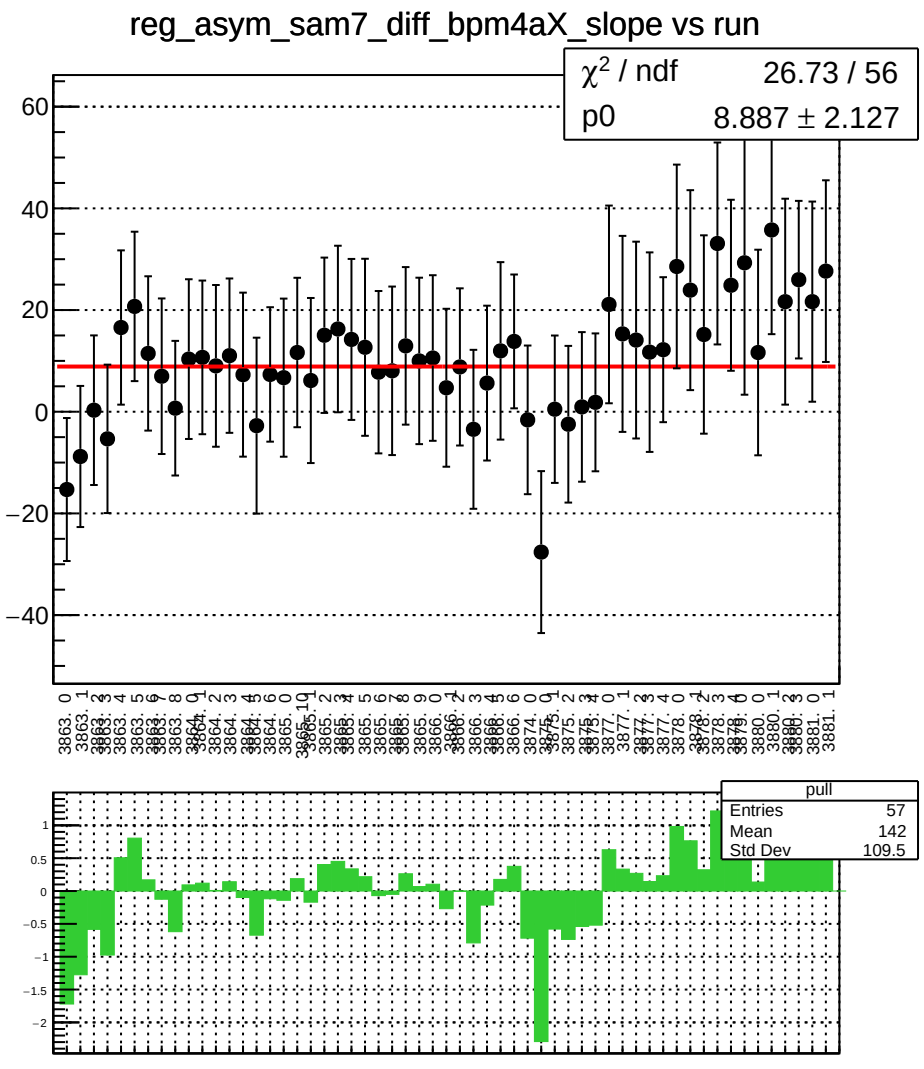

pull1D
Entries 57
Mean −0.0545
Std Dev 0.9021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

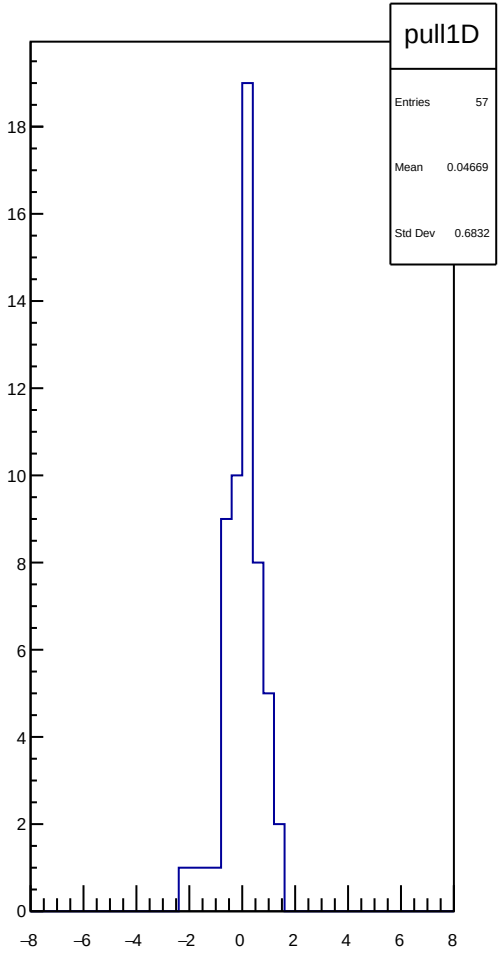

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 154.3 / 56
p0 32.86 ± 4.003
pull
Entries 57
Mean 101.6
Std Dev 83.95

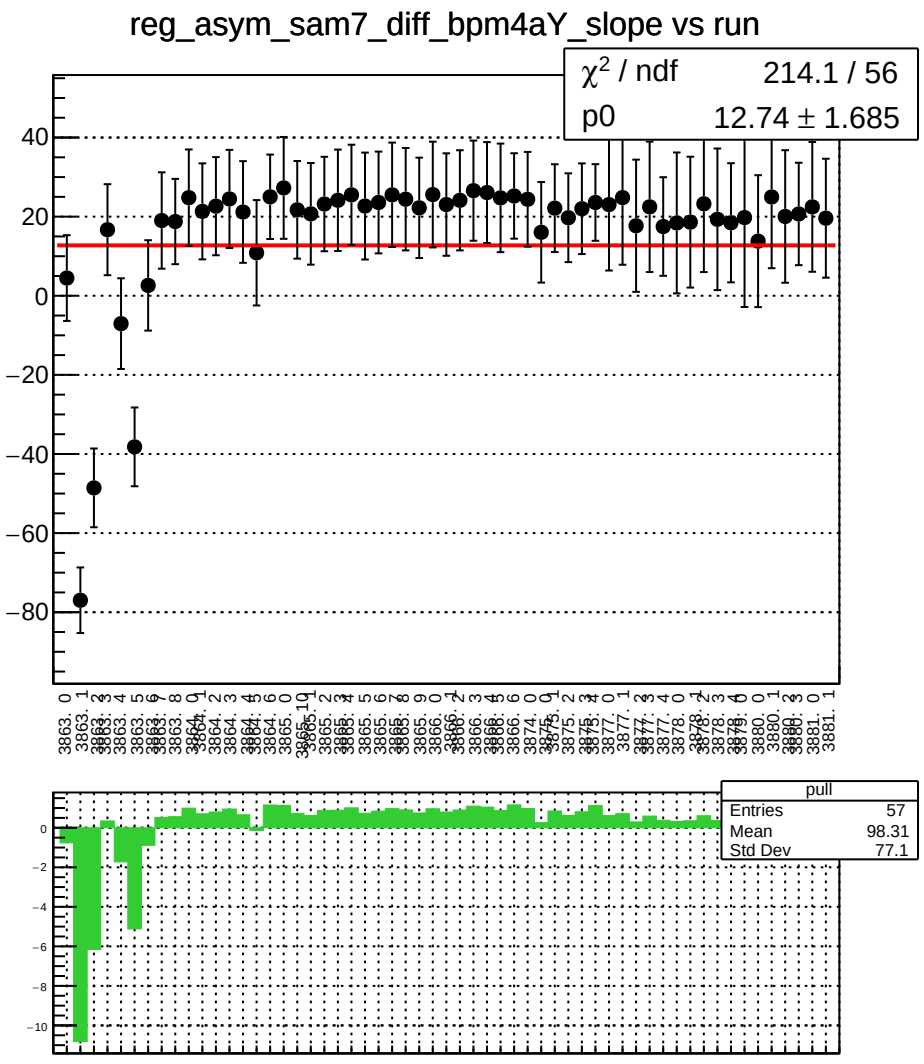

pull1D
Entries 57
Mean −0.2585
Std Dev 1.194

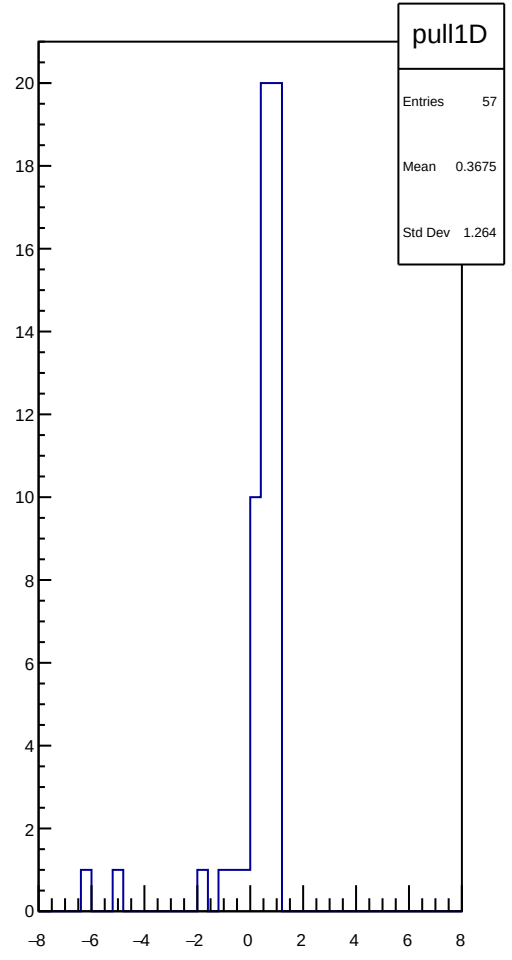

reg_asym_sam6_diff_bpm11X_slope vs run
χ^2 / ndf 41.82 / 56
p0 1.651 ± 0.709
pull
Entries 57
Mean 25.42
Std Dev 33.41

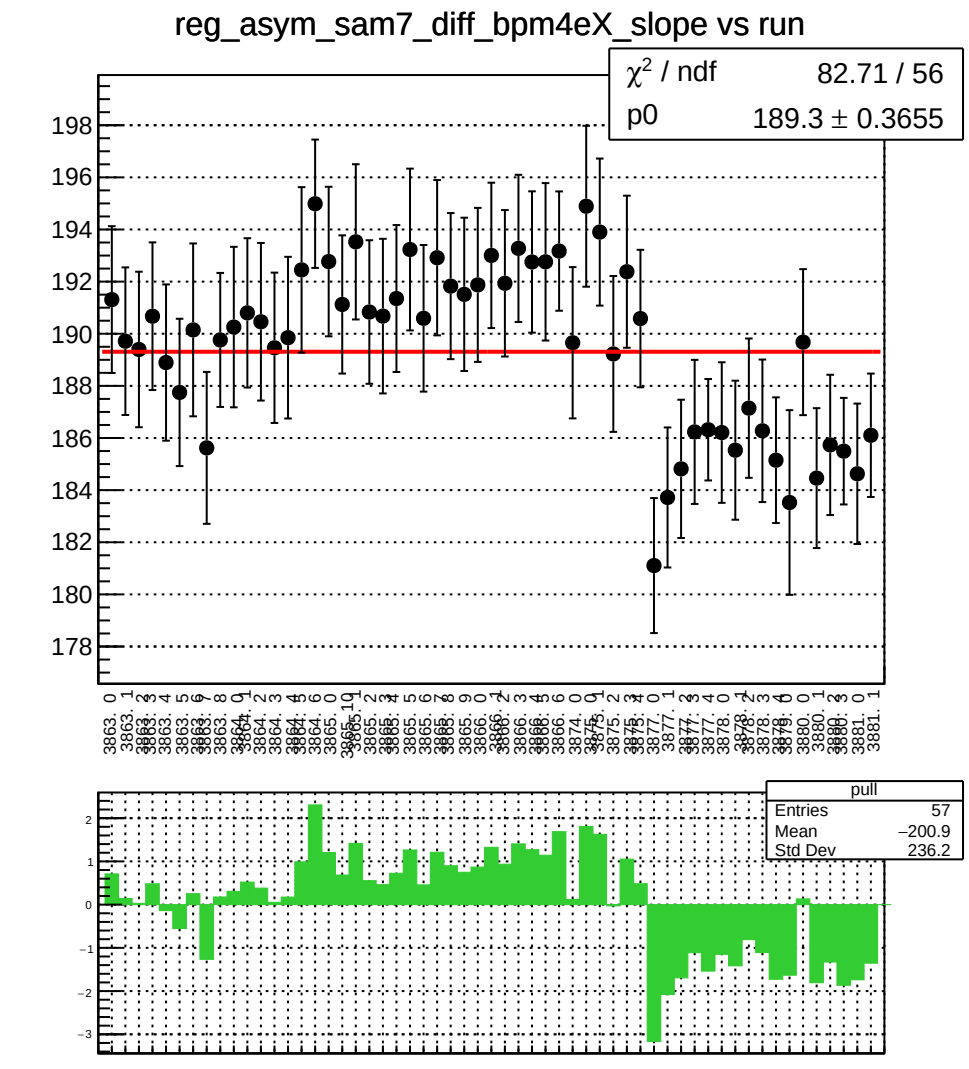

pull1D
Entries 57
Mean −0.1917
Std Dev 0.8348

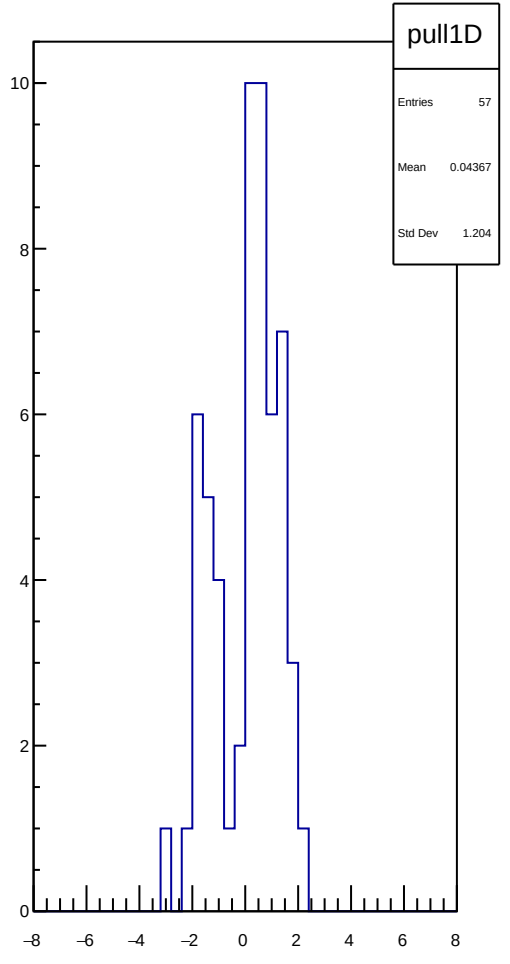

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 26.73 / 56
p0 8.887 ± 2.127
pull
Entries 57
Mean 142
Std Dev 109.5

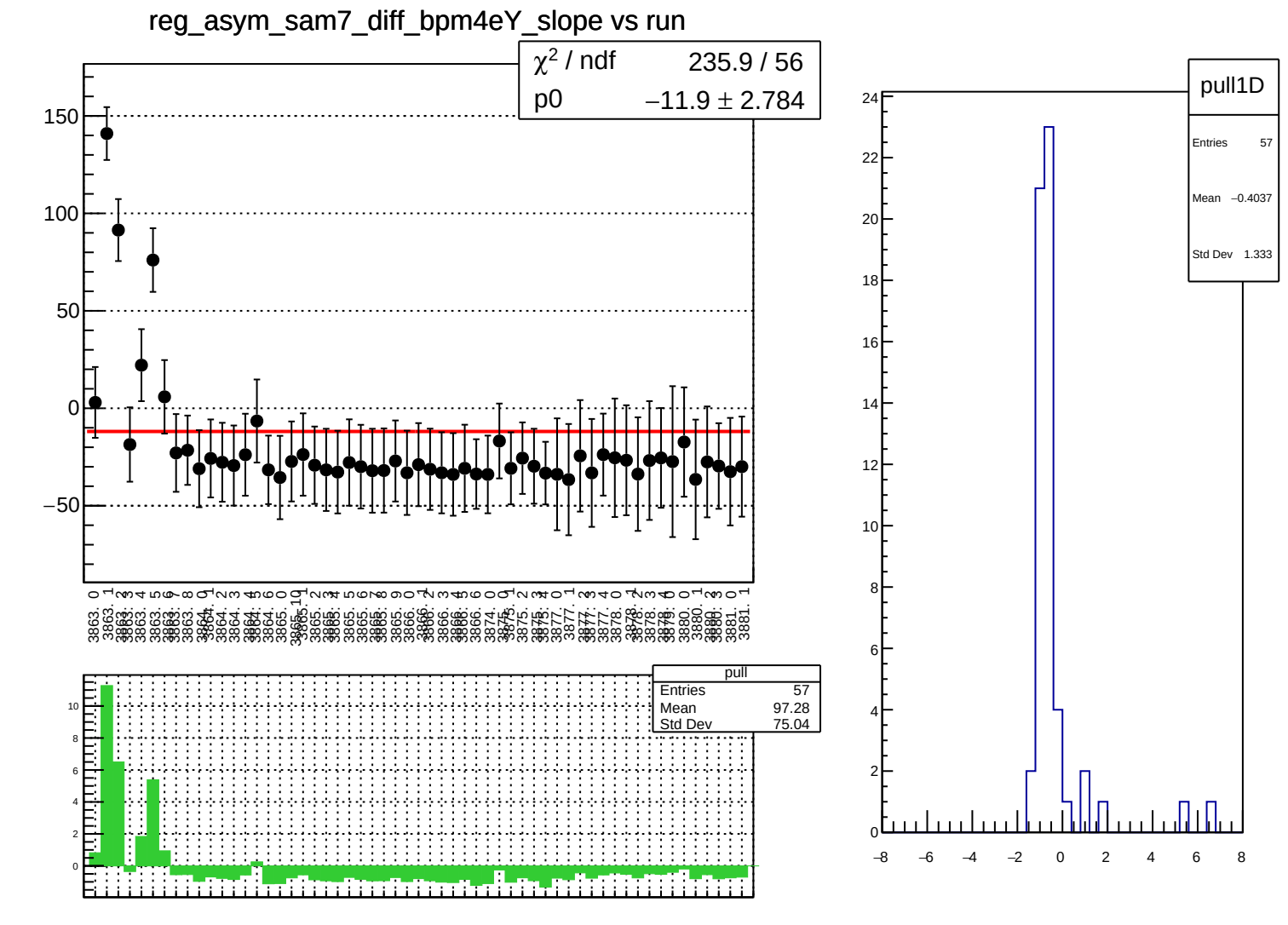

pull1D
Entries 57
Mean 0.04669
Std Dev 0.6832

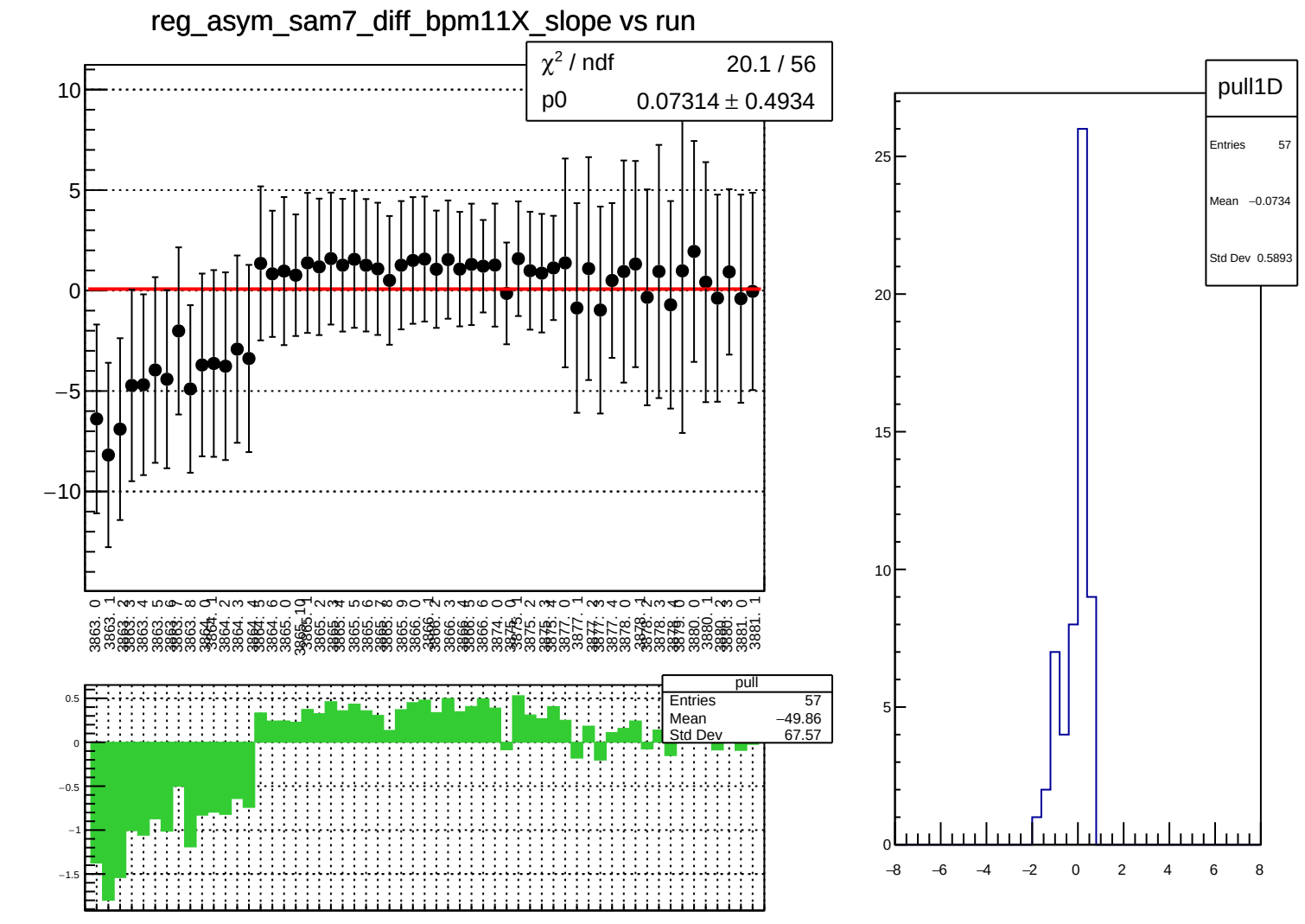

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 214.1 / 56
p0 12.74 ± 1.685
pull
Entries 57
Mean 98.31
Std Dev 77.1

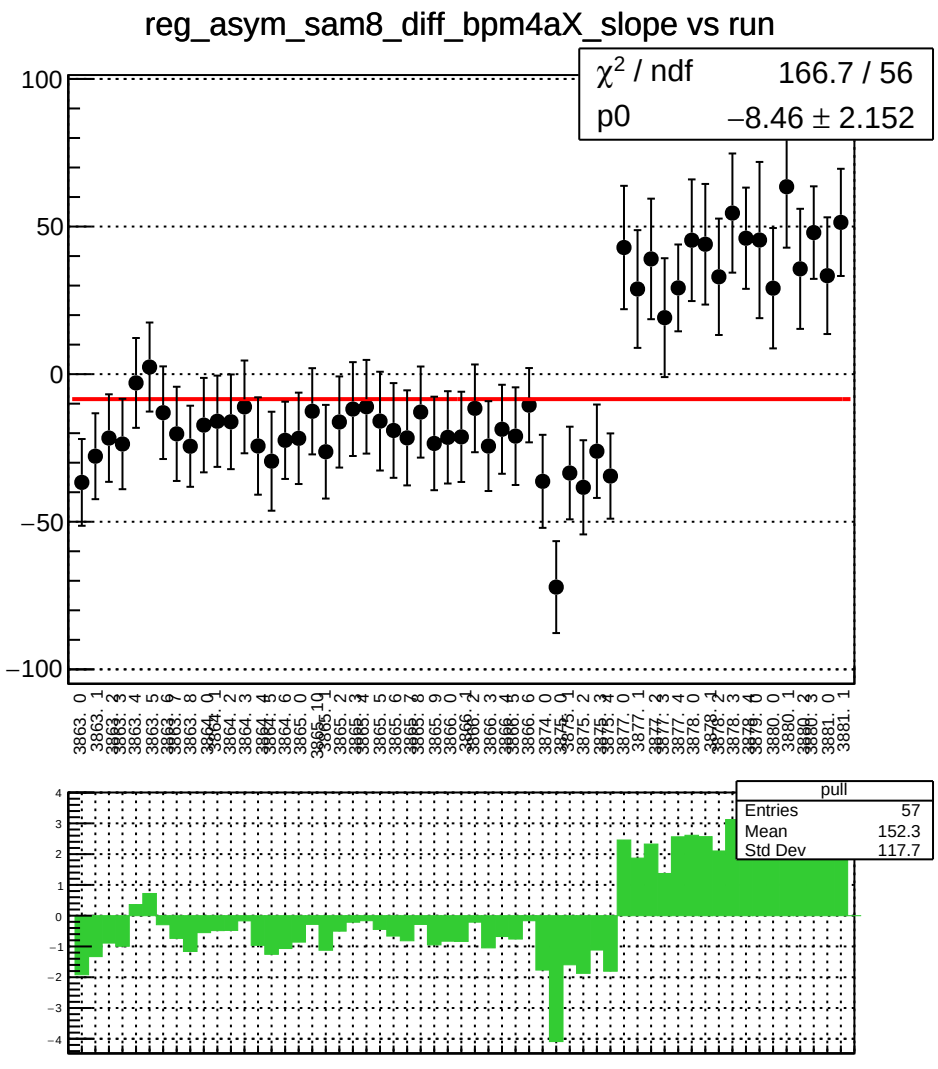

pull1D
Entries 57
Mean 0.3675
Std Dev 1.264

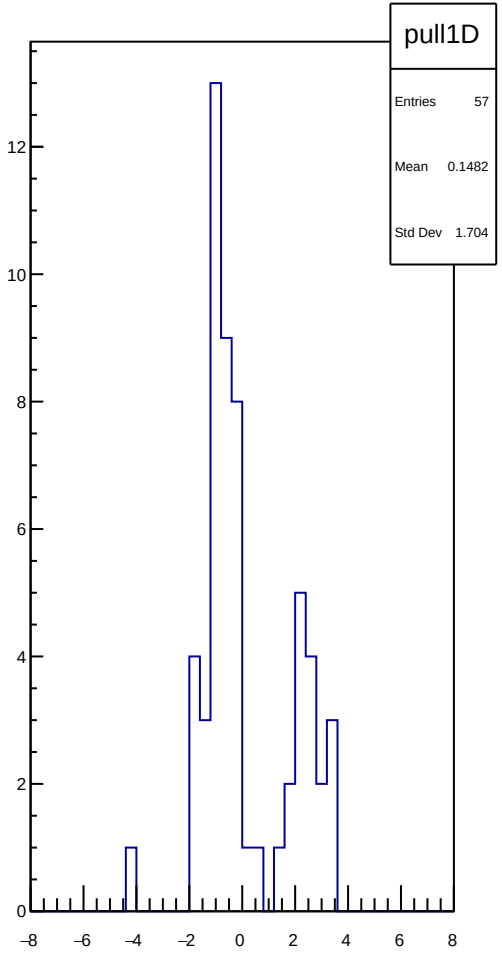

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 82.71 / 56
p0 189.3 ± 0.3655
198
196
194
192
190
188
186
184
182
180
178
pull
Entries 57
Mean −200.9
Std Dev 236.2
2
1
0
−1
−2
−3

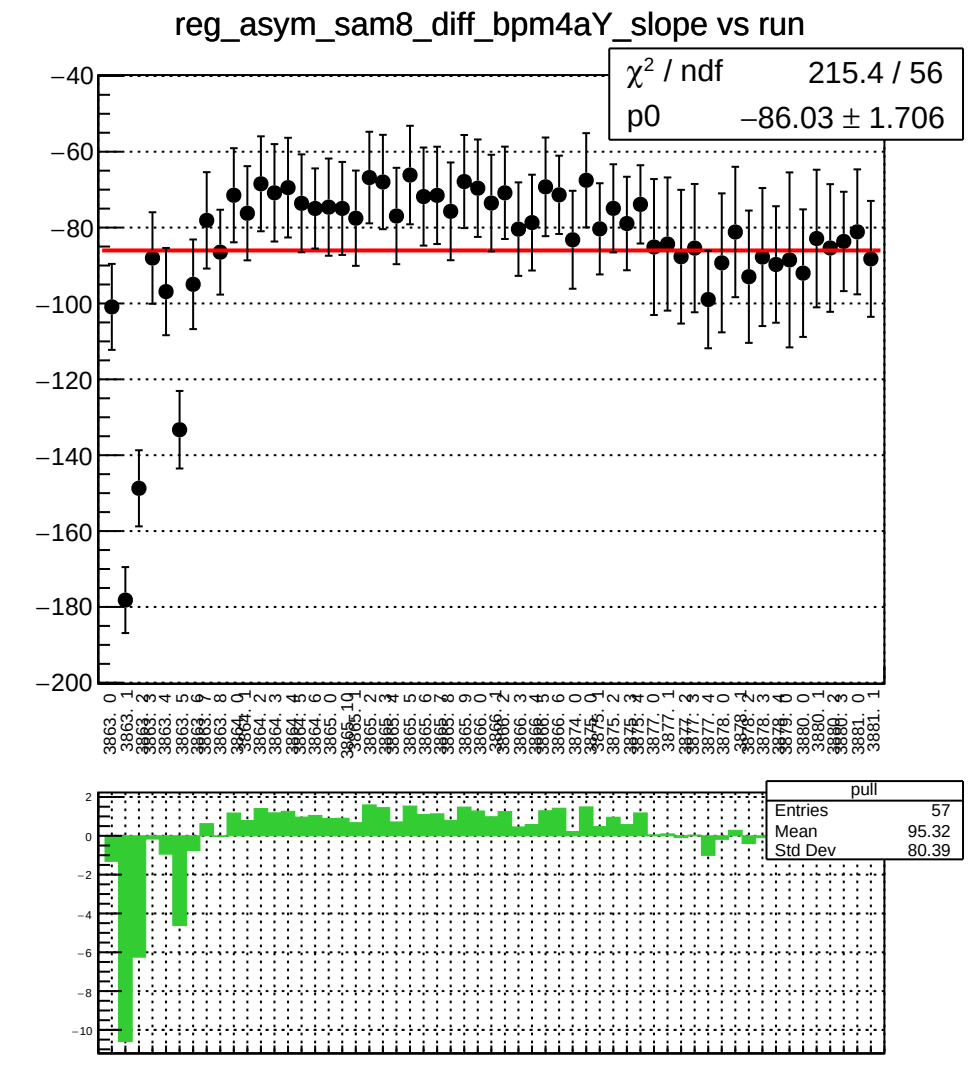

pull1D
Entries 57
Mean 0.04367
Std Dev 1.204
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

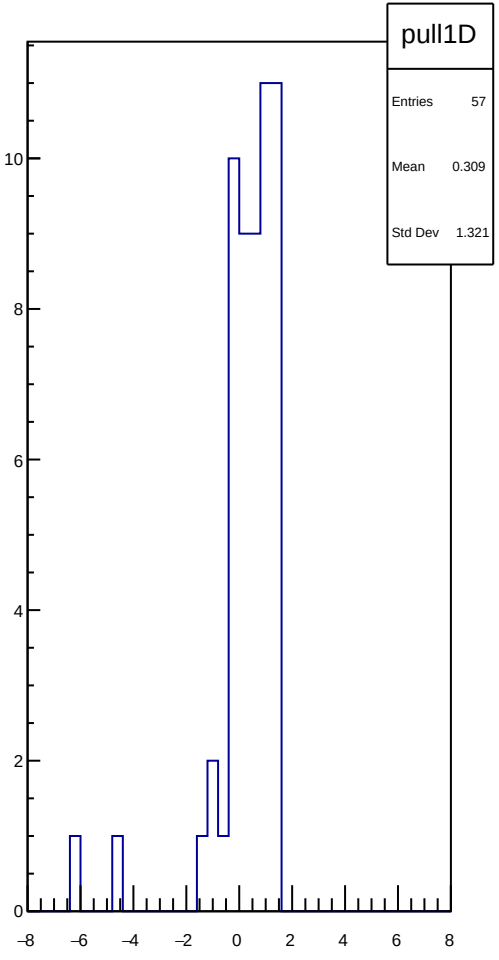

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 235.9 / 56
p0 −11.9 ± 2.784
150
100
50
0
−50
pull
Entries 57
Mean 97.28
Std Dev 75.04
pull1D
Entries 57
Mean −0.4037
Std Dev 1.333

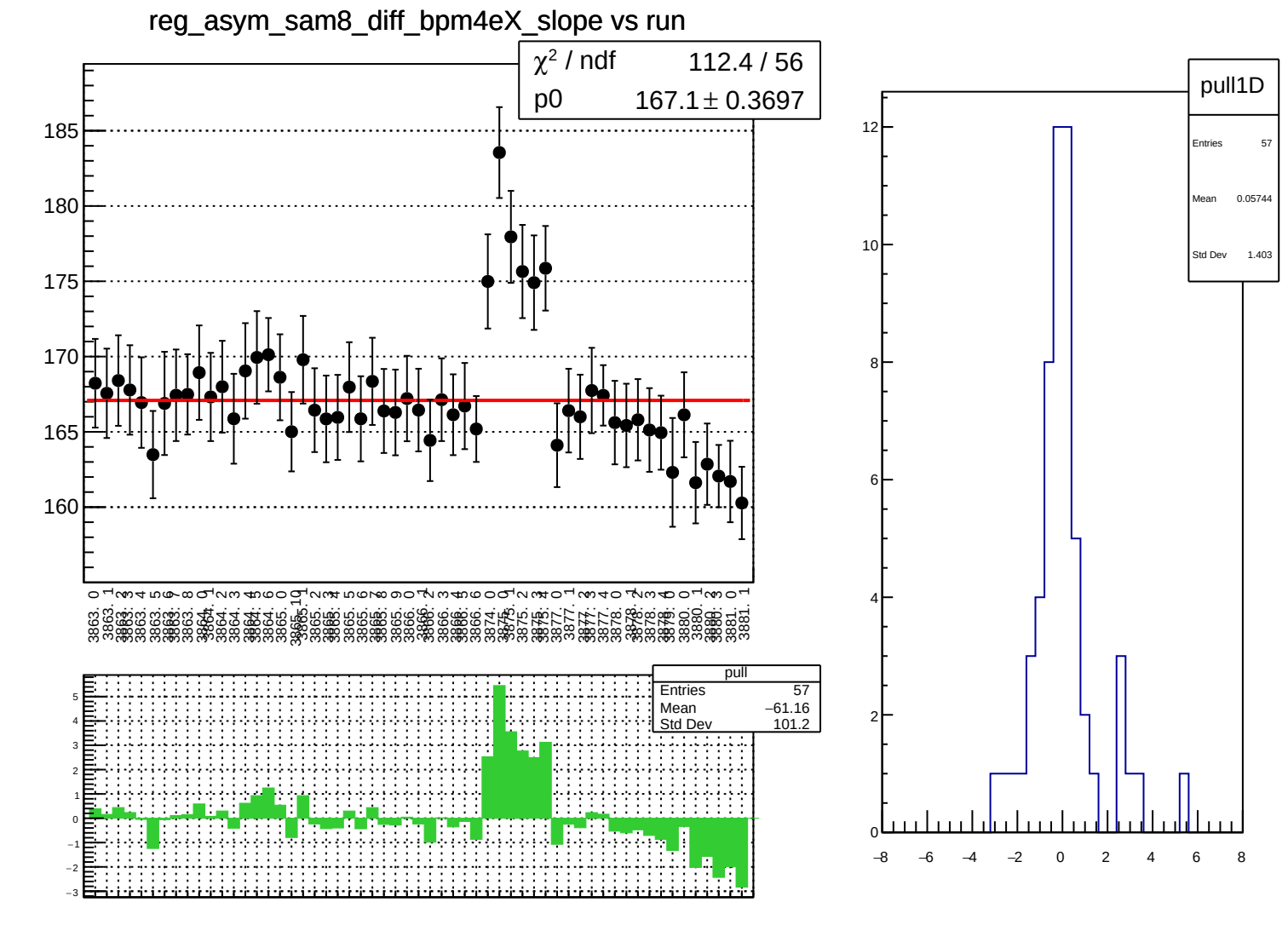

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 20.1 / 56
p0 0.07314 ± 0.4934
pull
Entries 57
Mean −49.86
Std Dev 67.57
pull1D
Entries 57
Mean −0.0734
Std Dev 0.5893

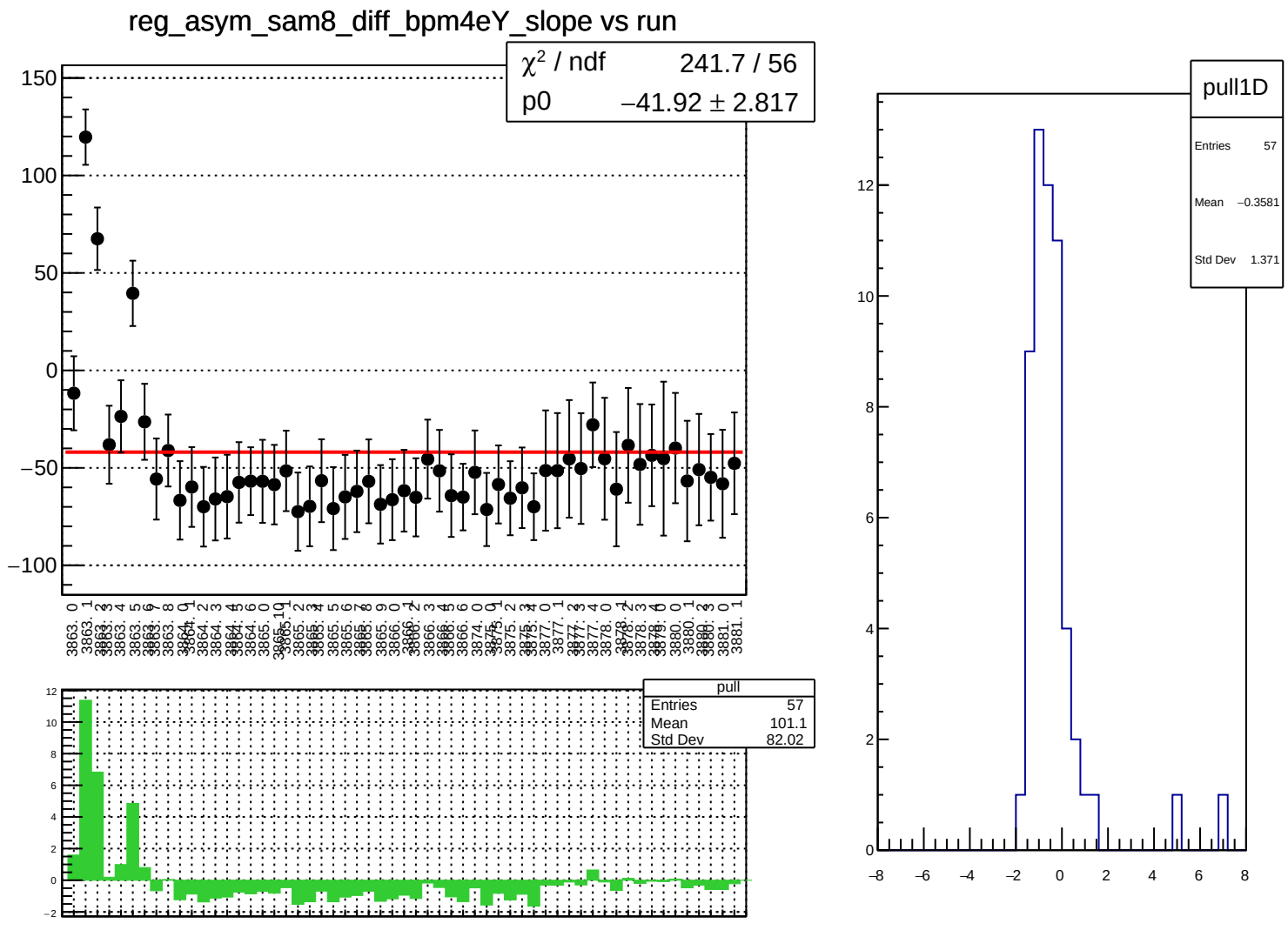

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 166.7 / 56
p0 −8.46 ± 2.152
pull
Entries 57
Mean 152.3
Std Dev 117.7

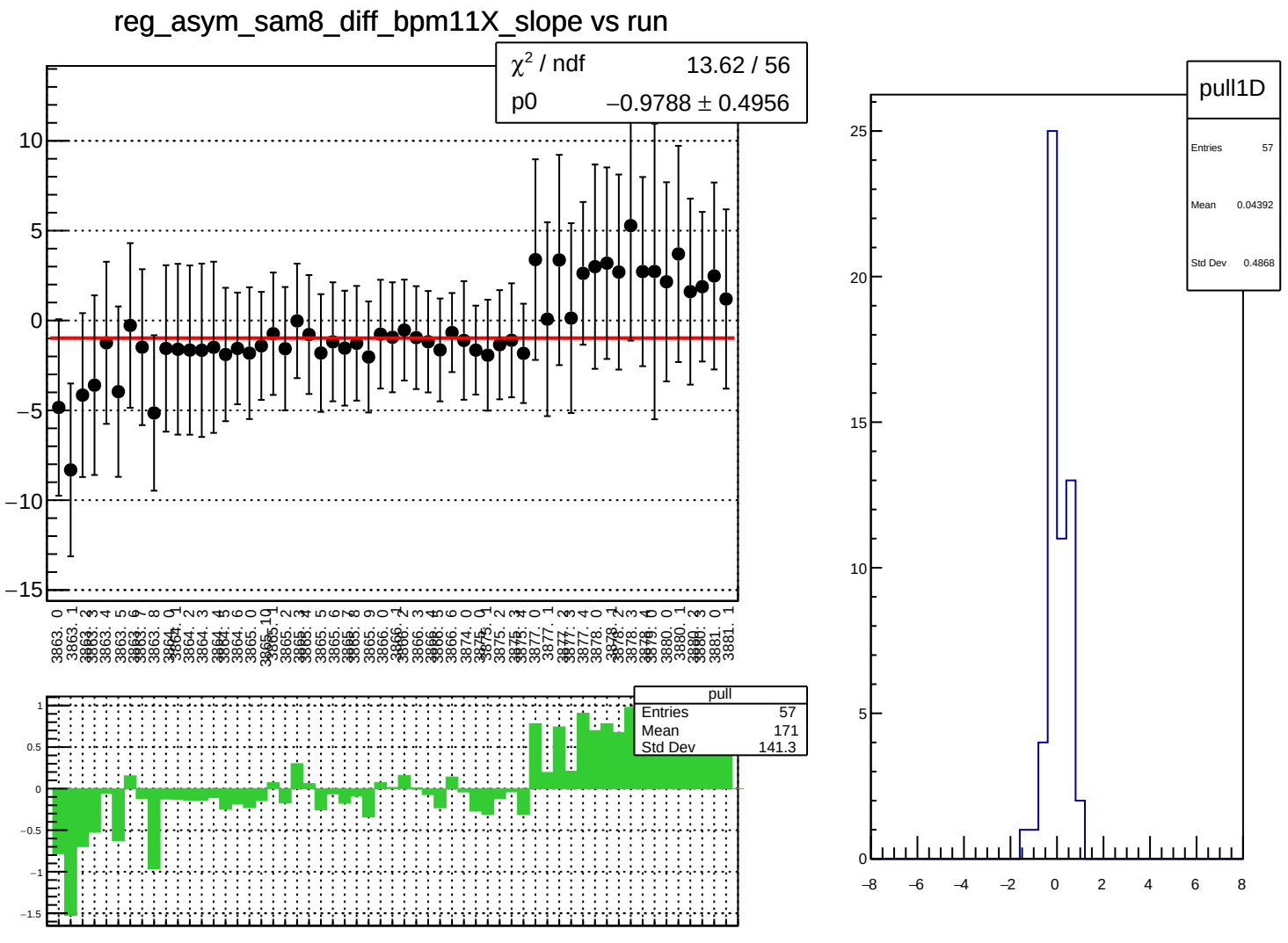

pull1D
Entries 57
Mean 0.1482
Std Dev 1.704

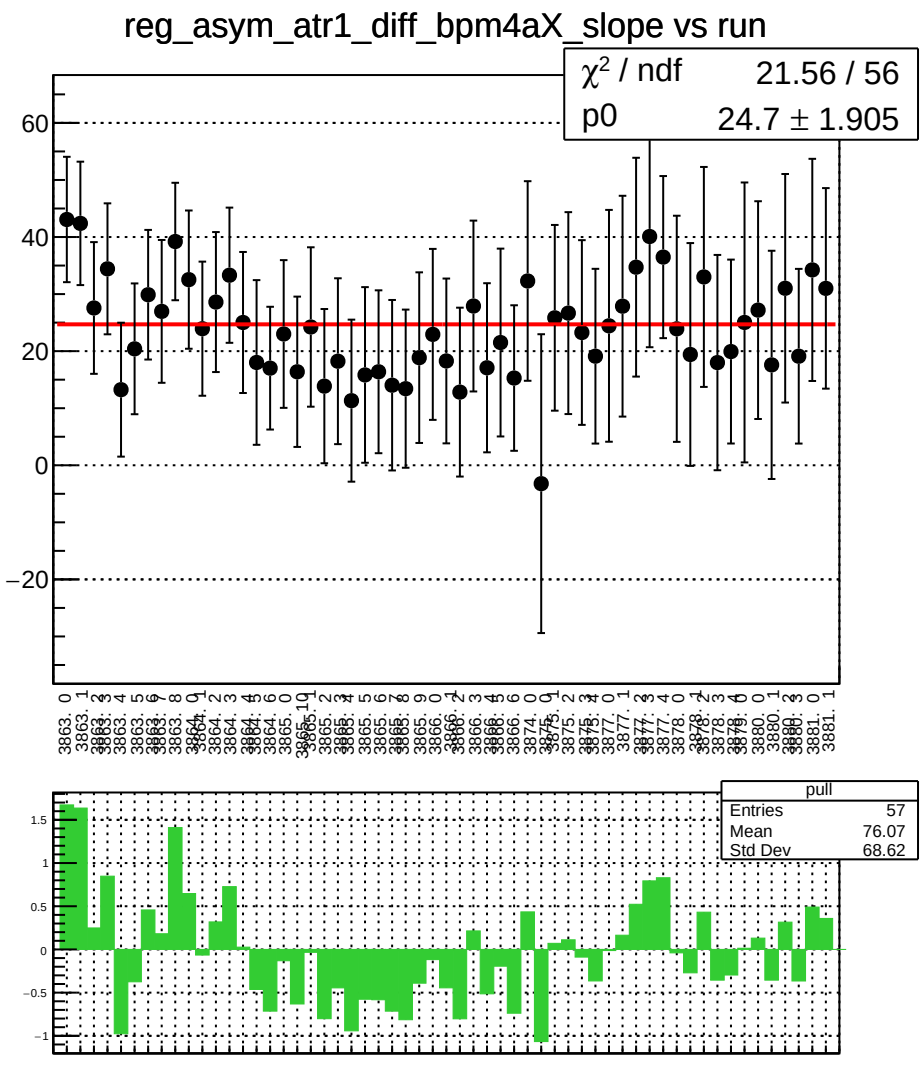

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 215.4 / 56
p0 −86.03 ± 1.706
pull
Entries 57
Mean 95.32
Std Dev 80.39

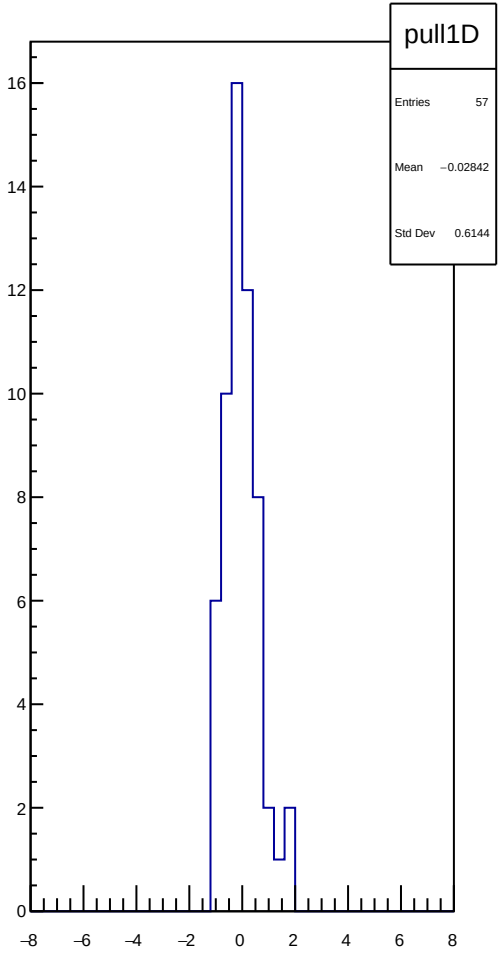

pull1D
Entries 57
Mean 0.309
Std Dev 1.321

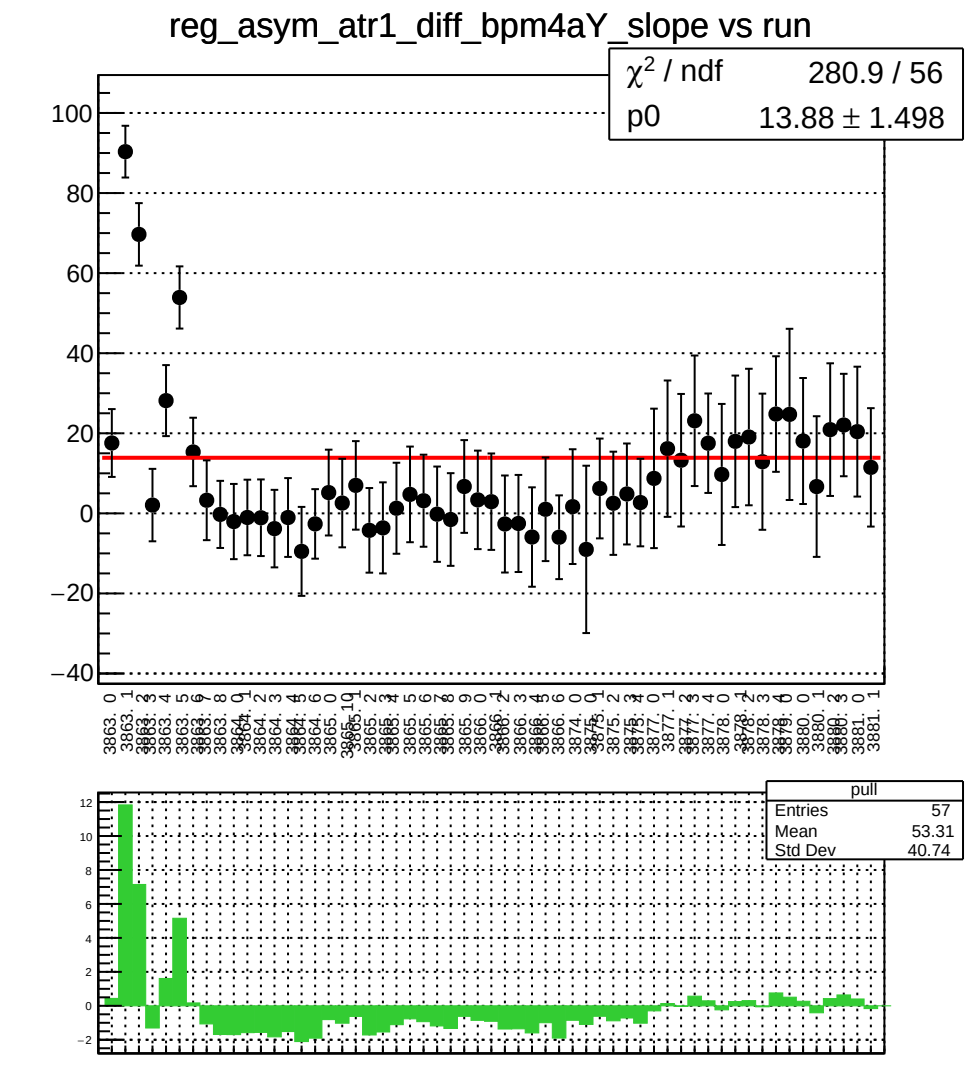

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 112.4 / 56
p0 167.1 ± 0.3697
185
180
175
170
165
160
pull
Entries 57
Mean −61.16
Std Dev 101.2
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 57
Mean 0.05744
Std Dev 1.403
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

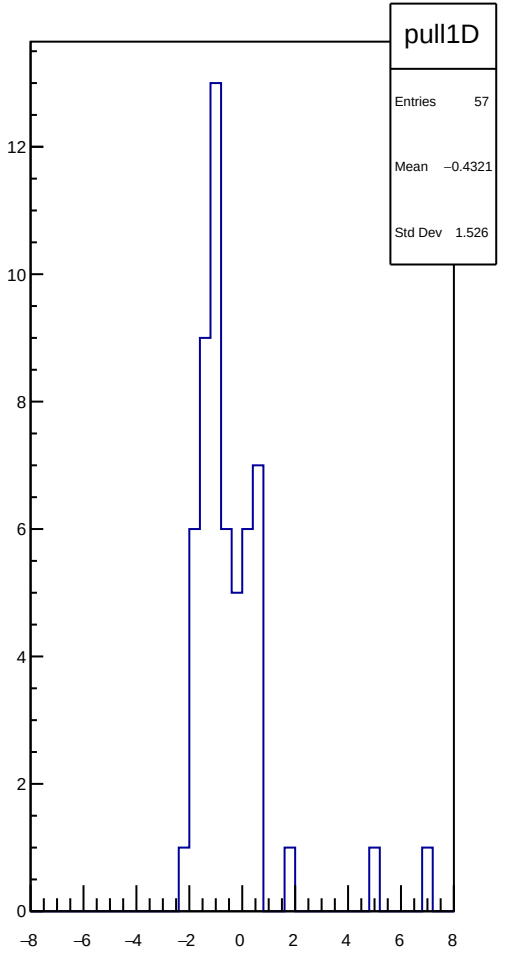

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 241.7 / 56
p0 −41.92 ± 2.817
150
100
50
0
−50
−100
pull
Entries 57
Mean 101.1
Std Dev 82.02
pull1D
Entries 57
Mean −0.3581
Std Dev 1.371

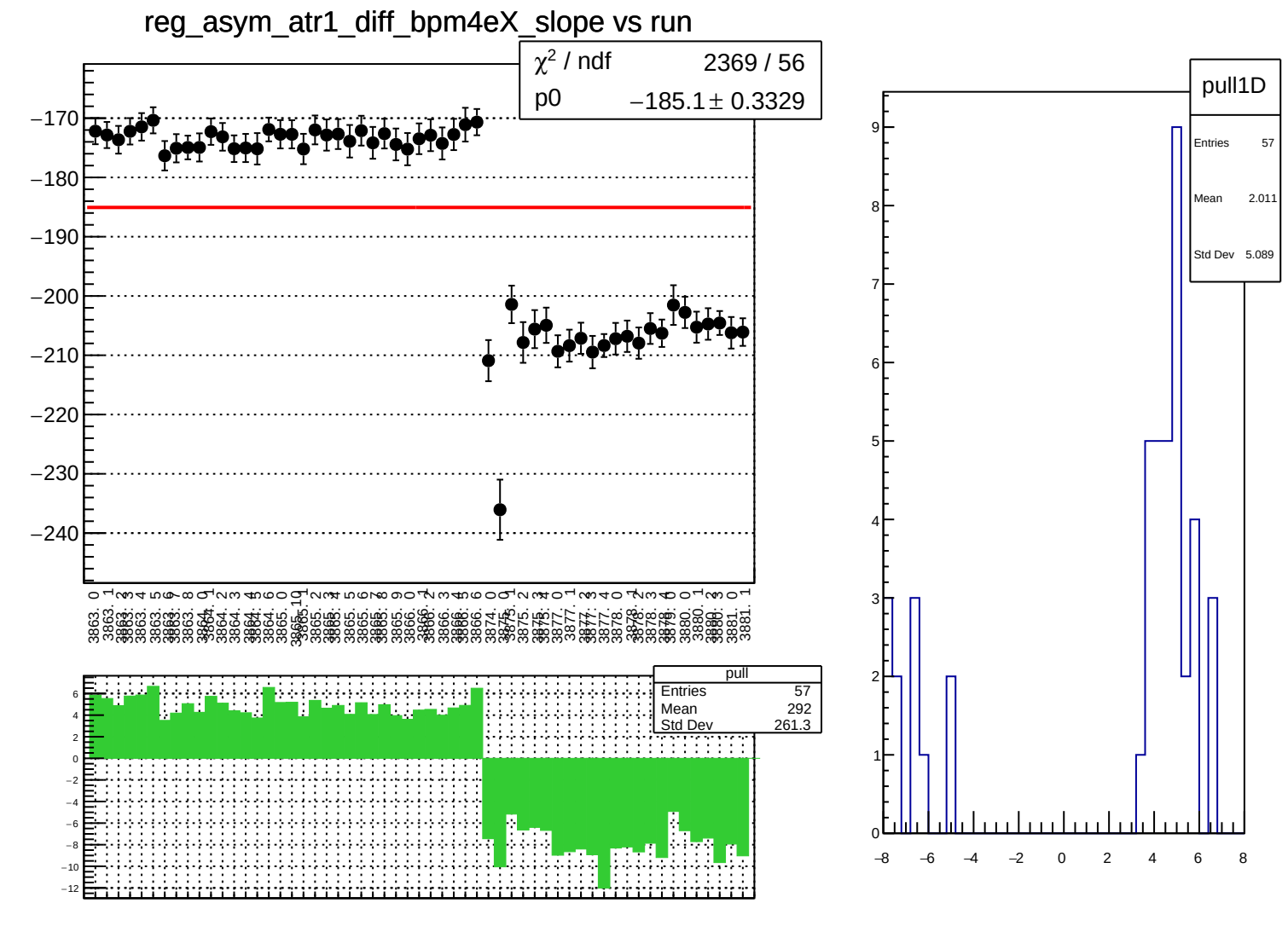

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 13.62 / 56
p0 −0.9788 ± 0.4956
pull
Entries 57
Mean 171
Std Dev 141.3
pull1D
Entries 57
Mean 0.04392
Std Dev 0.4868

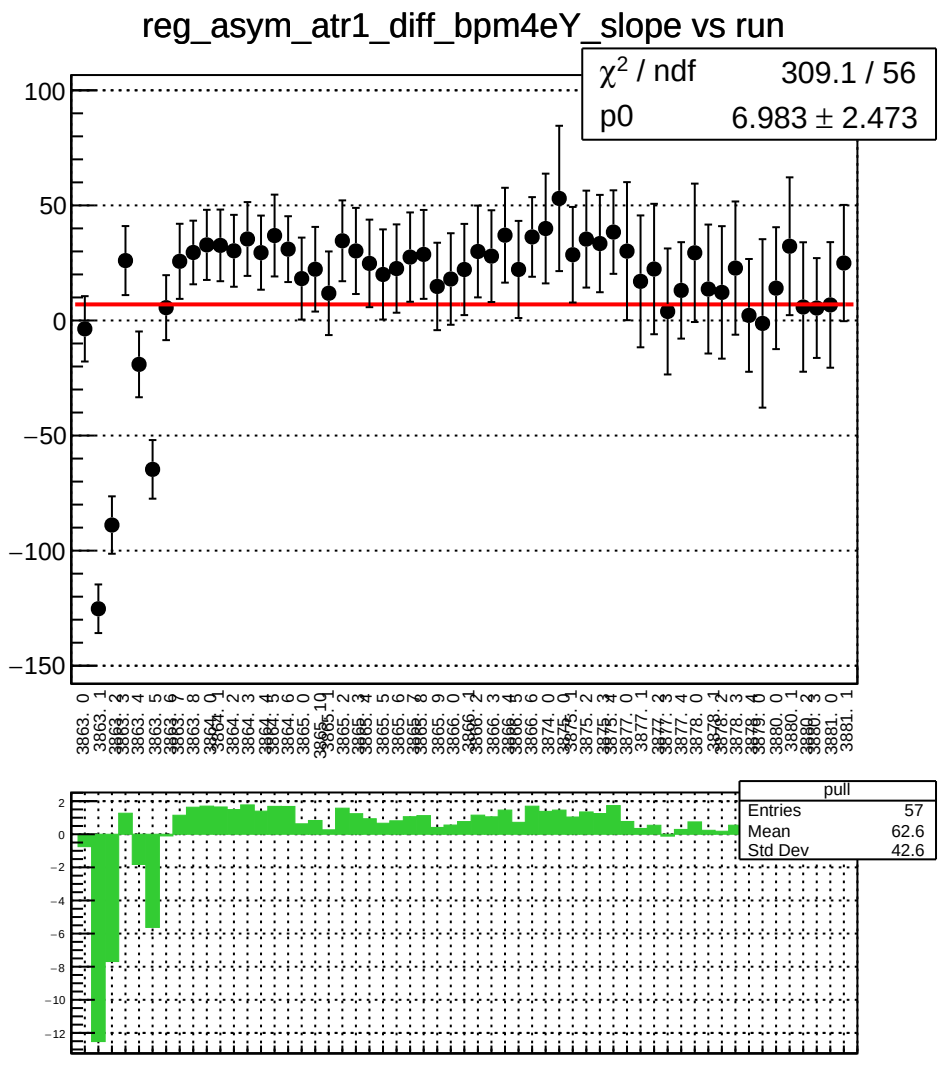

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 21.56 / 56
p0 24.7 ± 1.905
pull
Entries 57
Mean 76.07
Std Dev 68.62

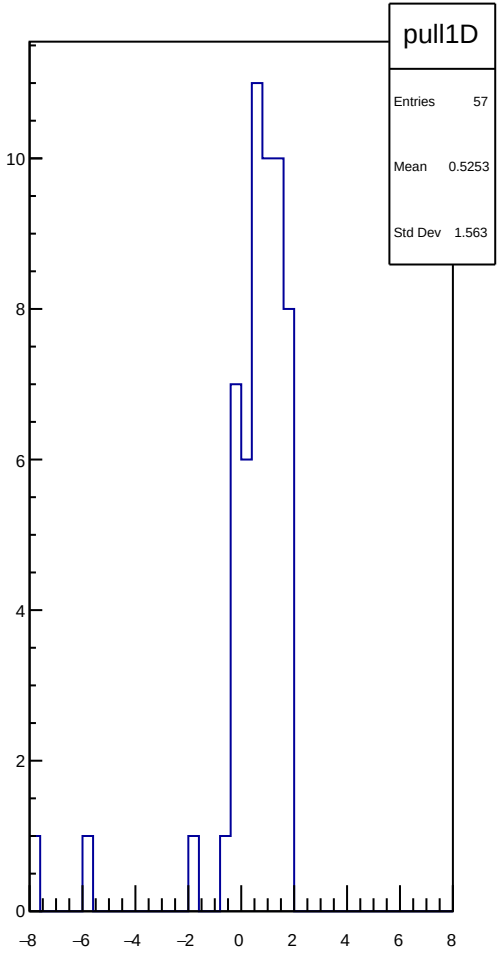

pull1D
Entries 57
Mean −0.02842
Std Dev 0.6144

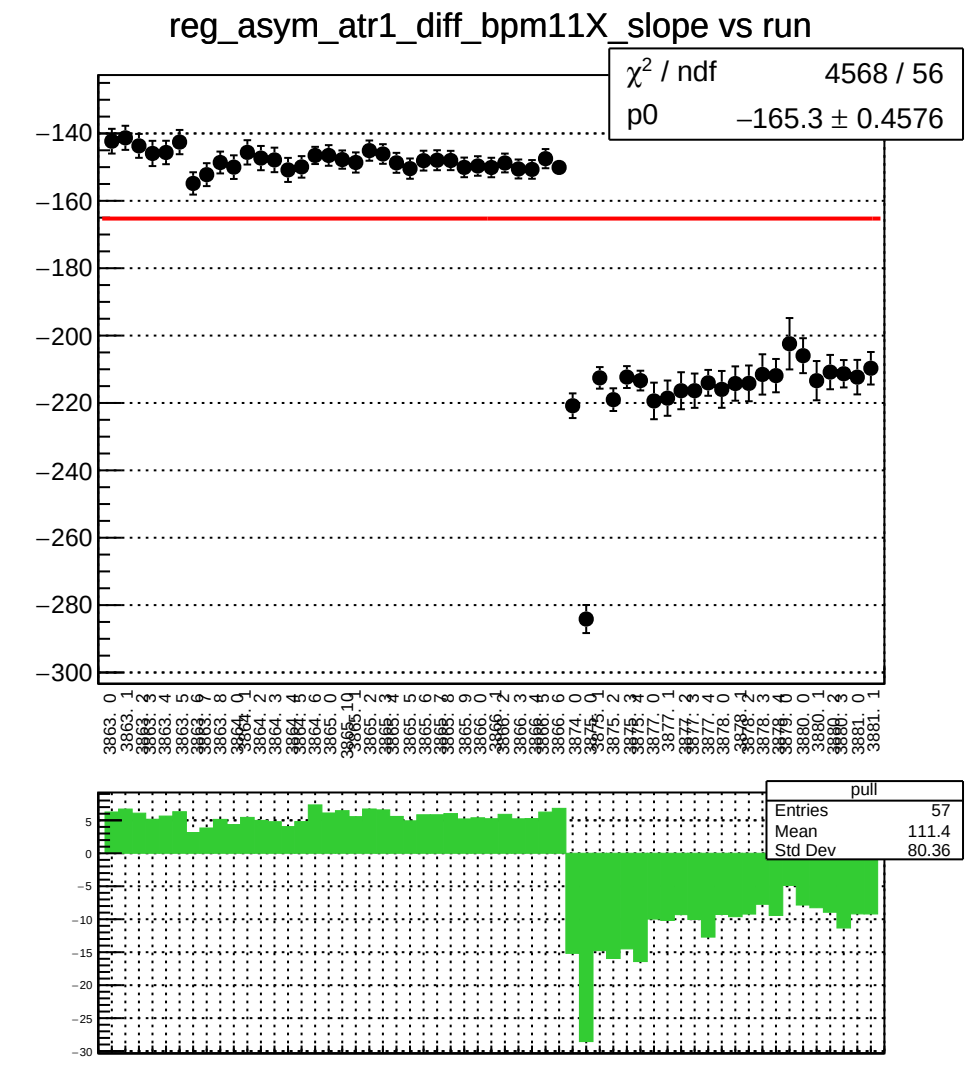

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 280.9 / 56
p0 13.88 ± 1.498
pull
Entries 57
Mean 53.31
Std Dev 40.74

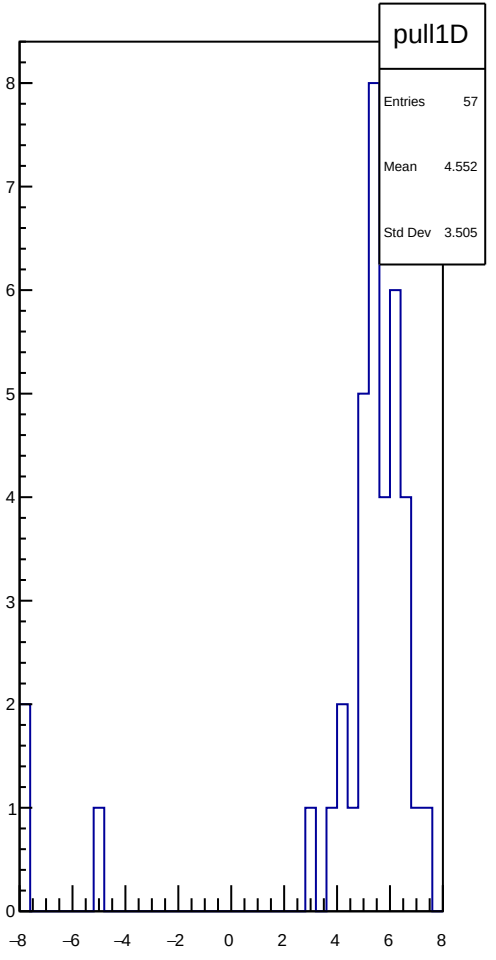

pull1D
Entries 57
Mean −0.4321
Std Dev 1.526

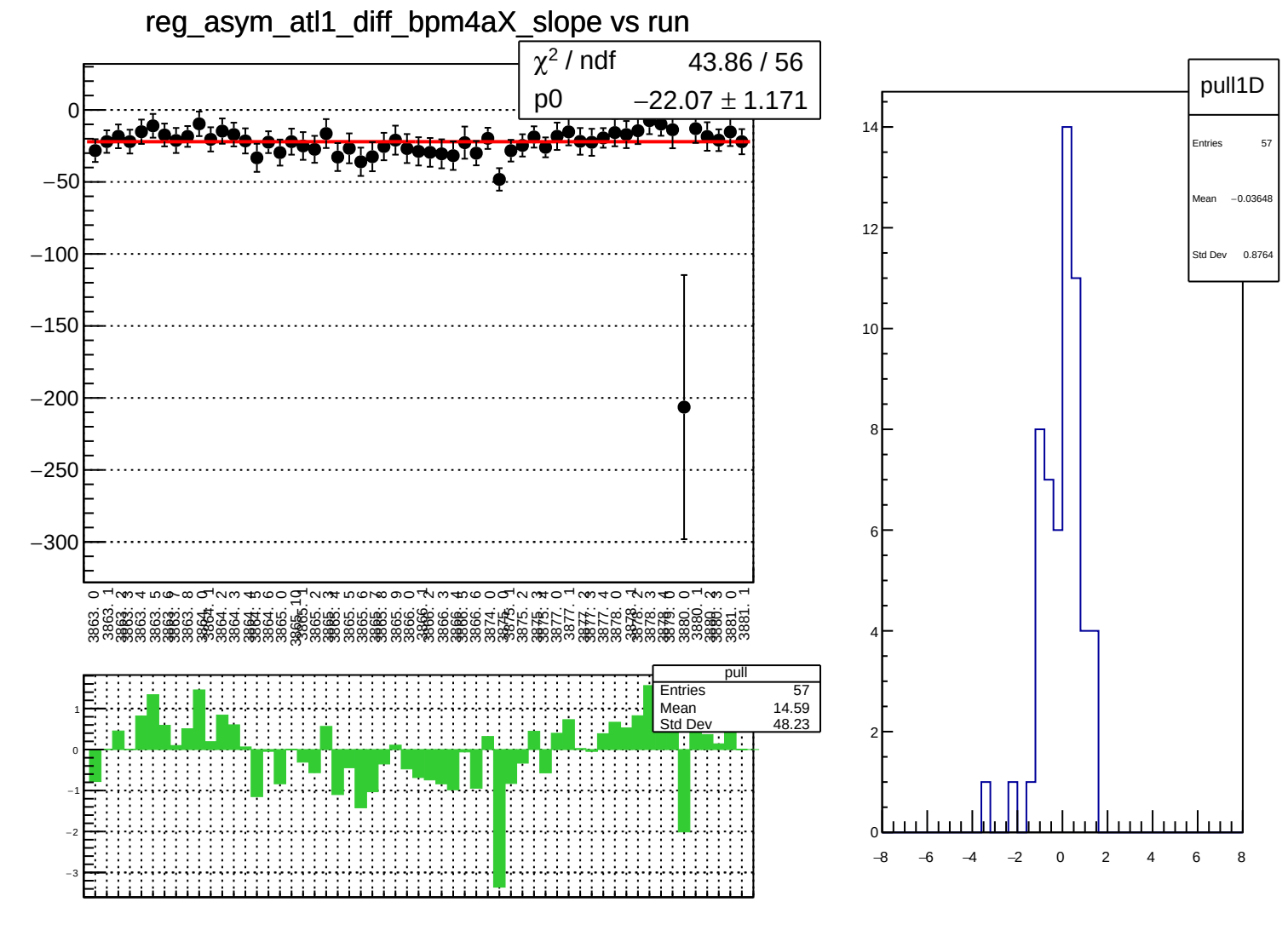

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 2369 / 56
p0 −185.1 ± 0.3329
pull
Entries 57
Mean 292
Std Dev 261.3
pull1D
Entries 57
Mean 2.011
Std Dev 5.089

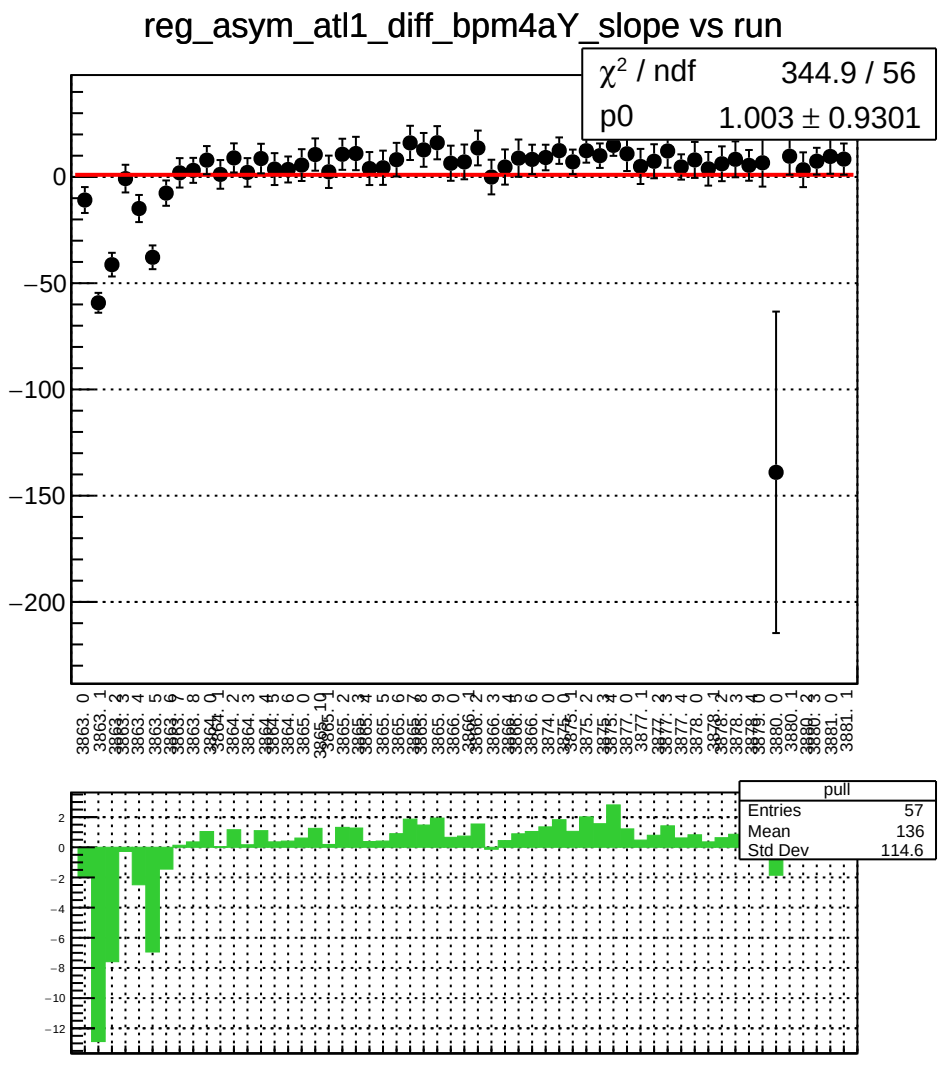

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 309.1 / 56
p0 6.983 ± 2.473
pull
Entries 57
Mean 62.6
Std Dev 42.6

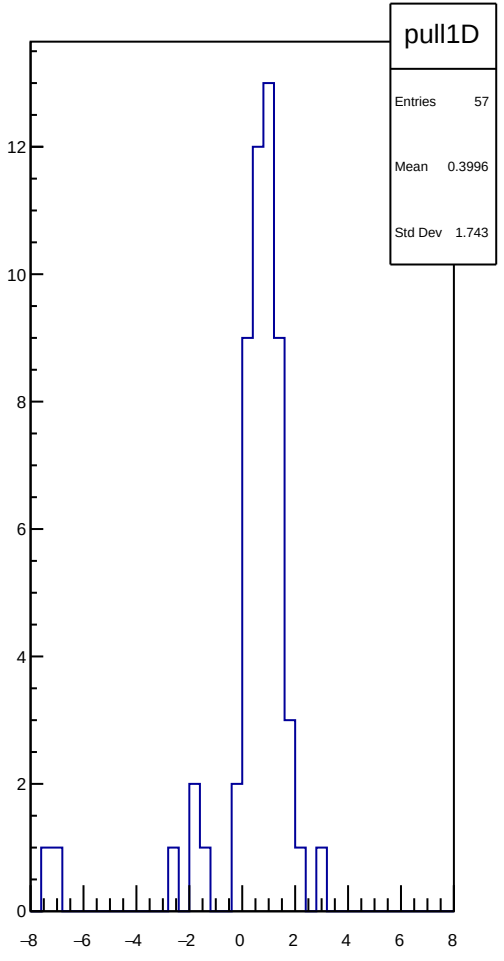

pull1D
Entries 57
Mean 0.5253
Std Dev 1.563

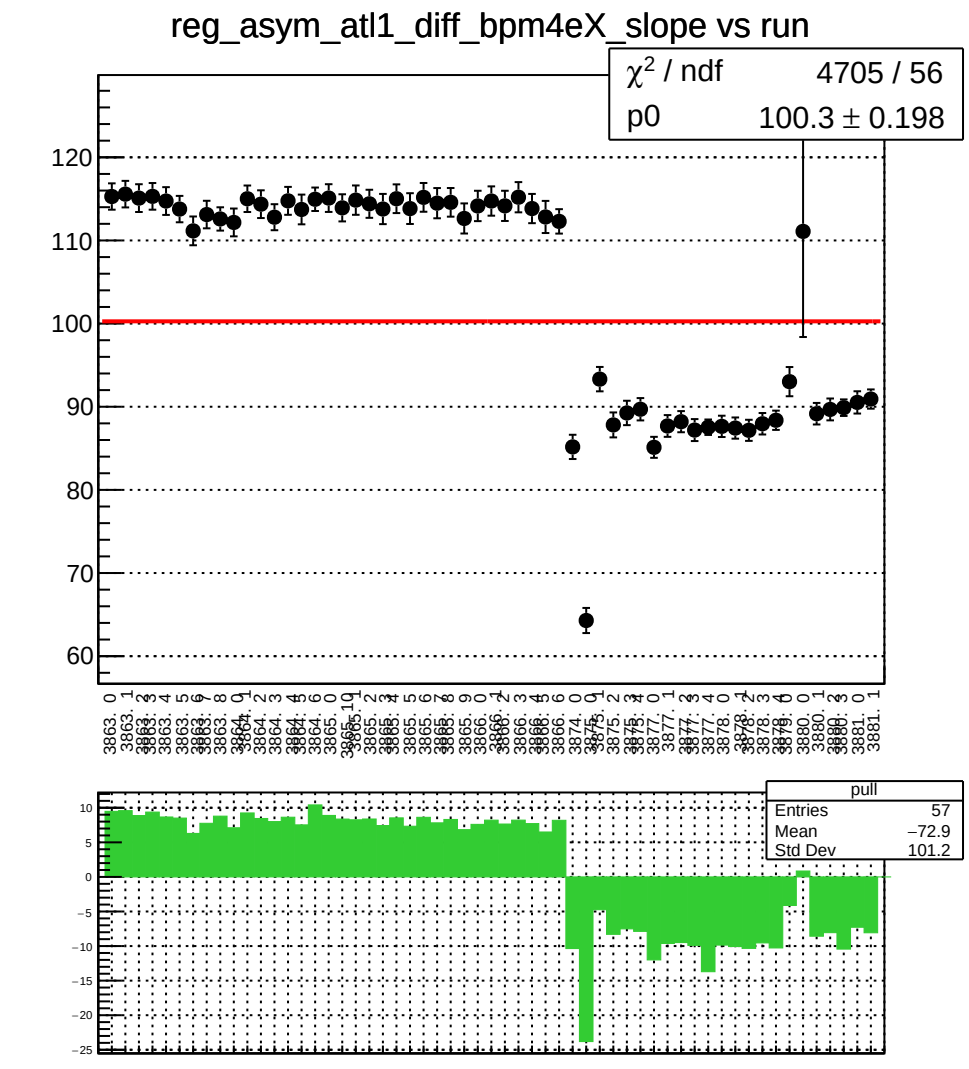

reg_asym_atr1_diff_bpm11X_slope vs run
χ² / ndf 4568 / 56
p0 −165.3 ± 0.4576
pull
Entries 57
Mean 111.4
Std Dev 80.36

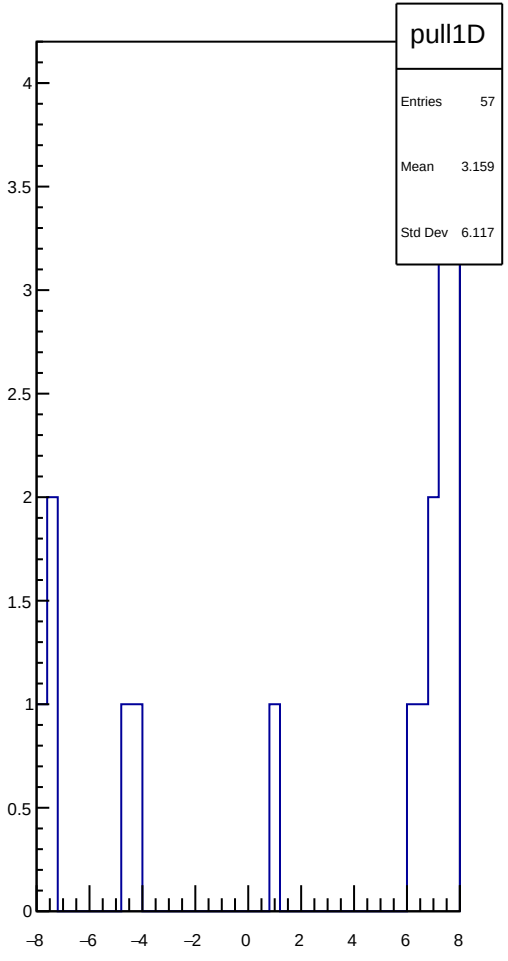

pull1D
Entries 57
Mean 4.552
Std Dev 3.505

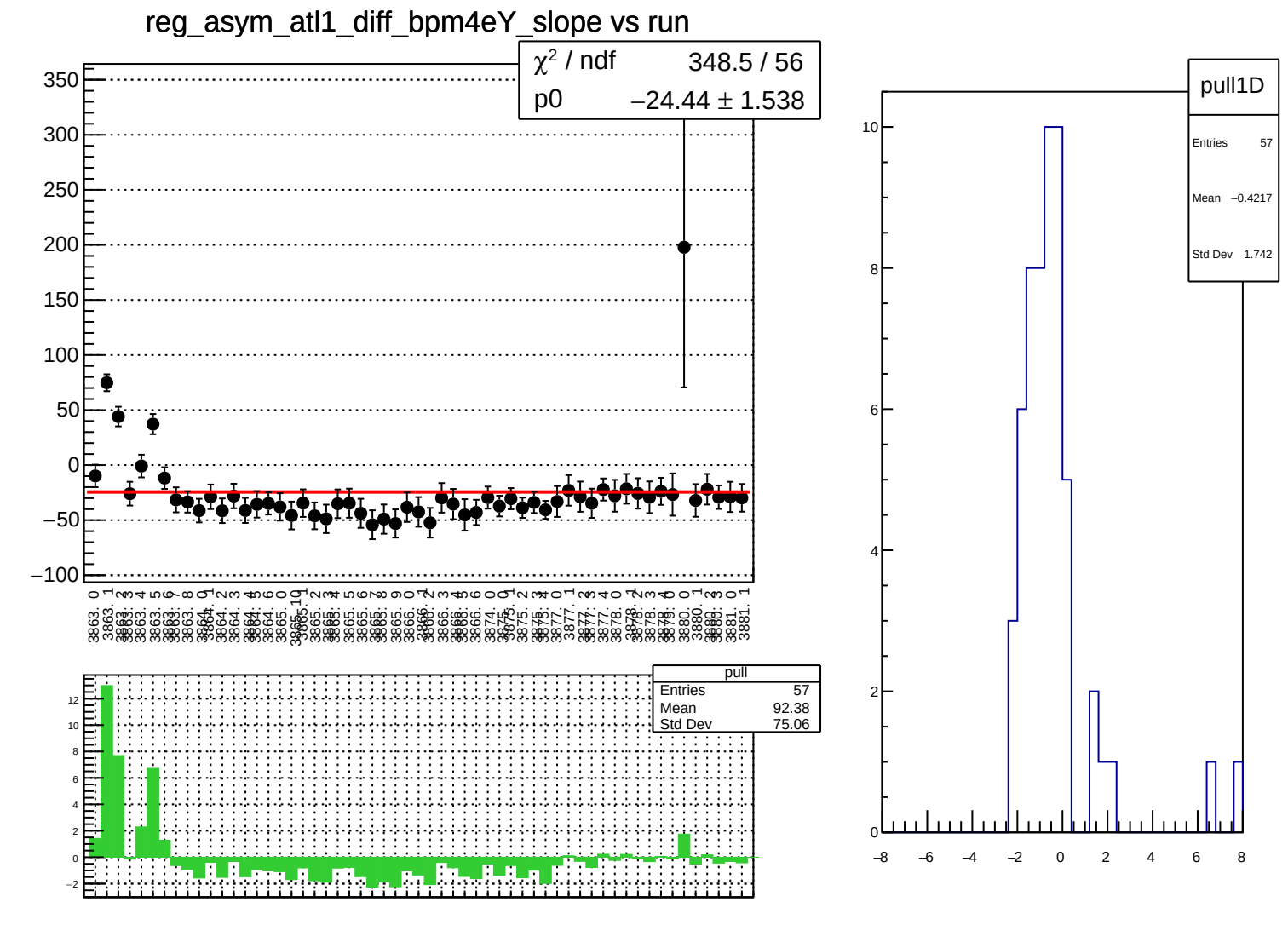

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 43.86 / 56
p0 −22.07 ± 1.171
pull
Entries 57
Mean 14.59
Std Dev 48.23
pull1D
Entries 57
Mean −0.03648
Std Dev 0.8764

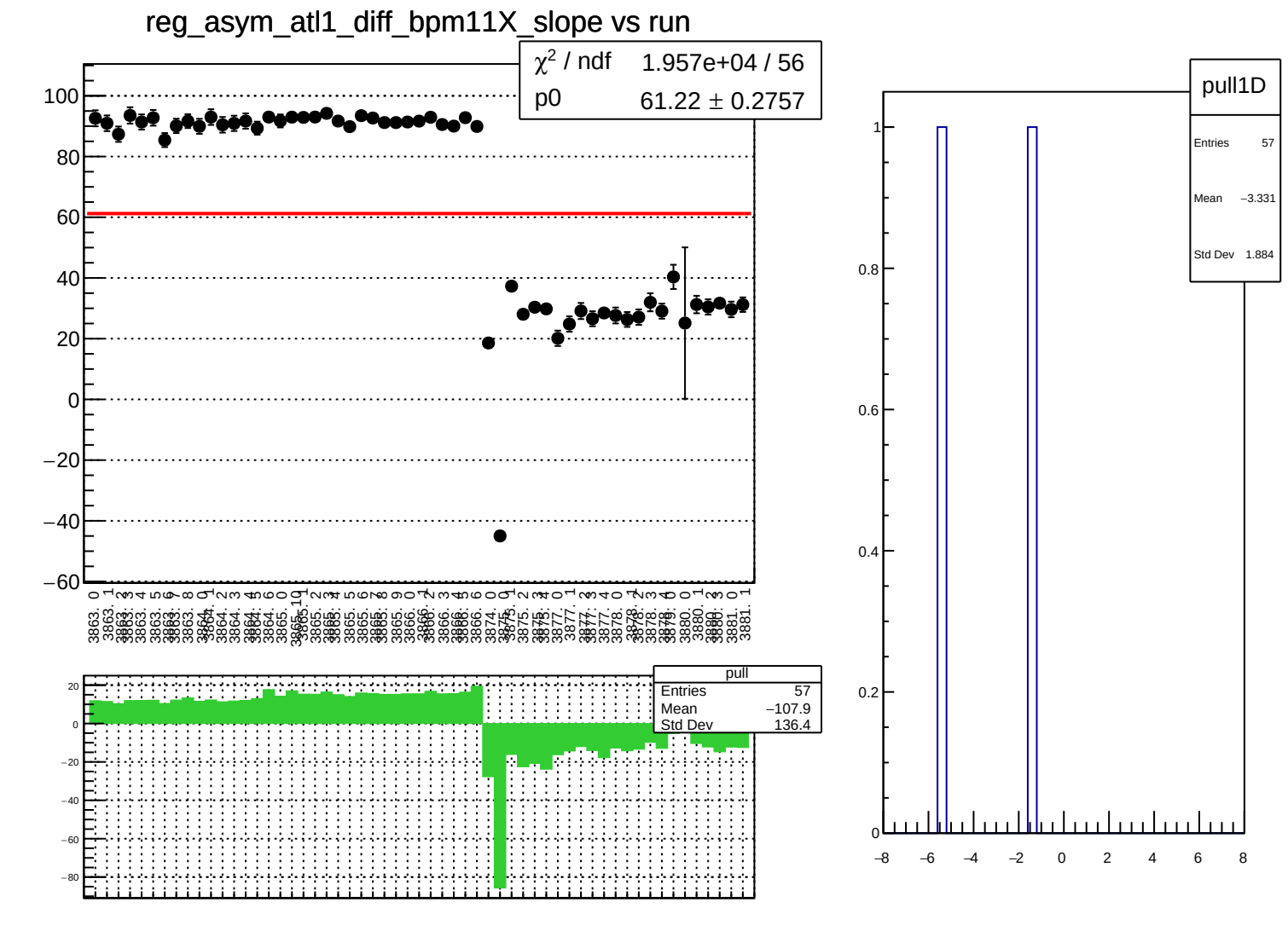

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 344.9 / 56
p0 1.003 ± 0.9301
pull
Entries 57
Mean 136
Std Dev 114.6

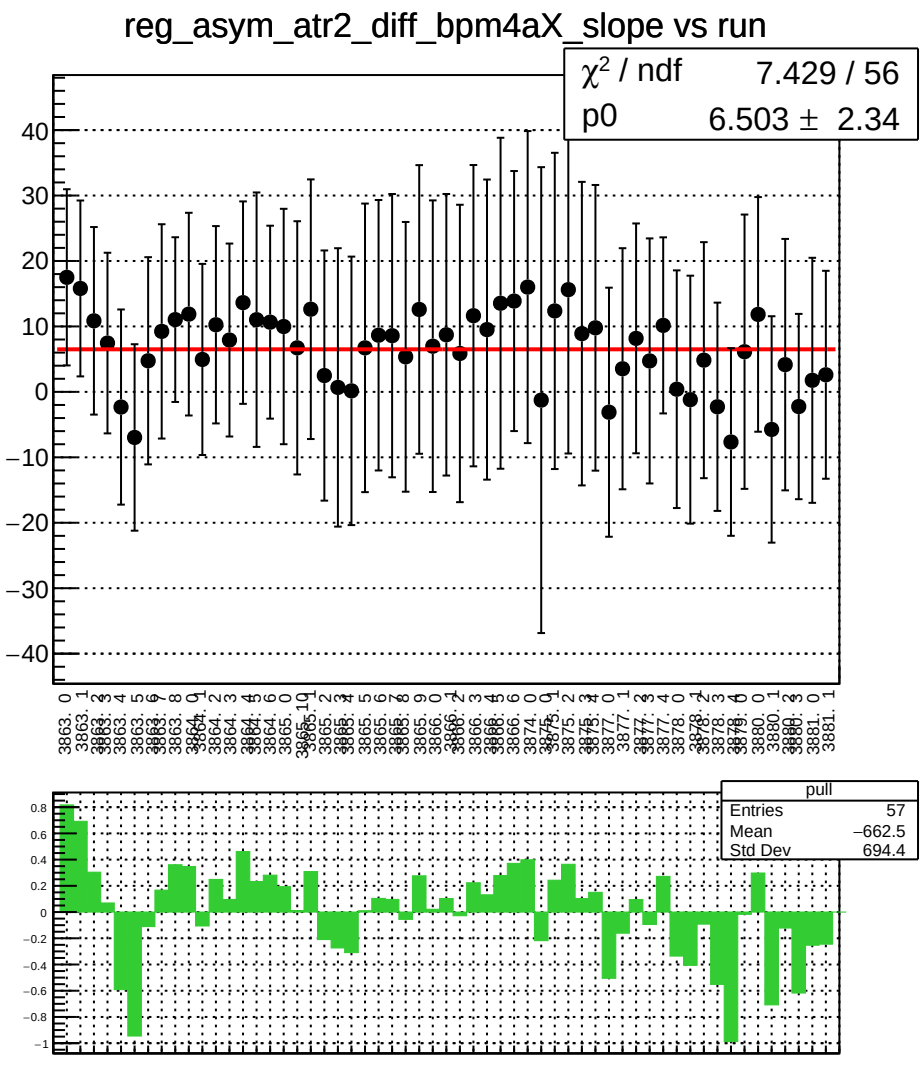

pull1D
Entries 57
Mean 0.3996
Std Dev 1.743

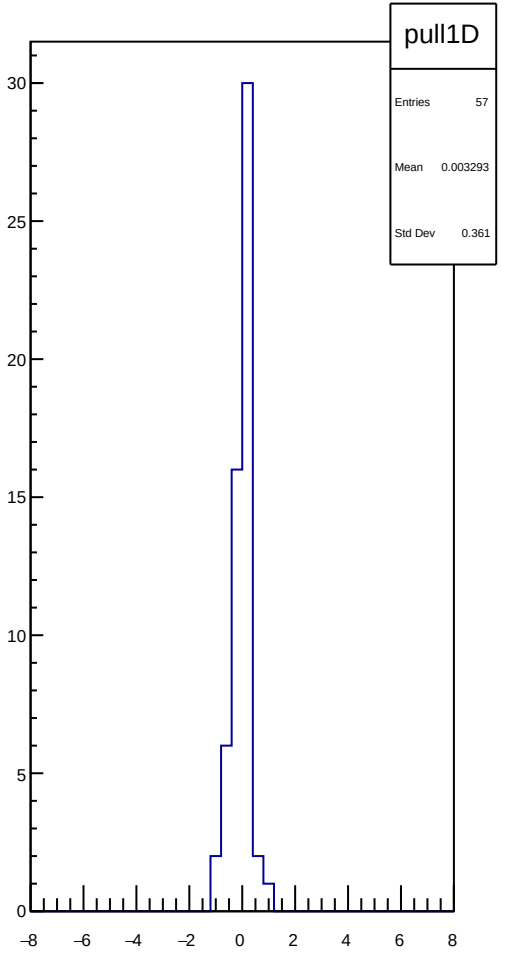

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 4705 / 56
p0 100.3 ± 0.198
pull
Entries 57
Mean −72.9
Std Dev 101.2

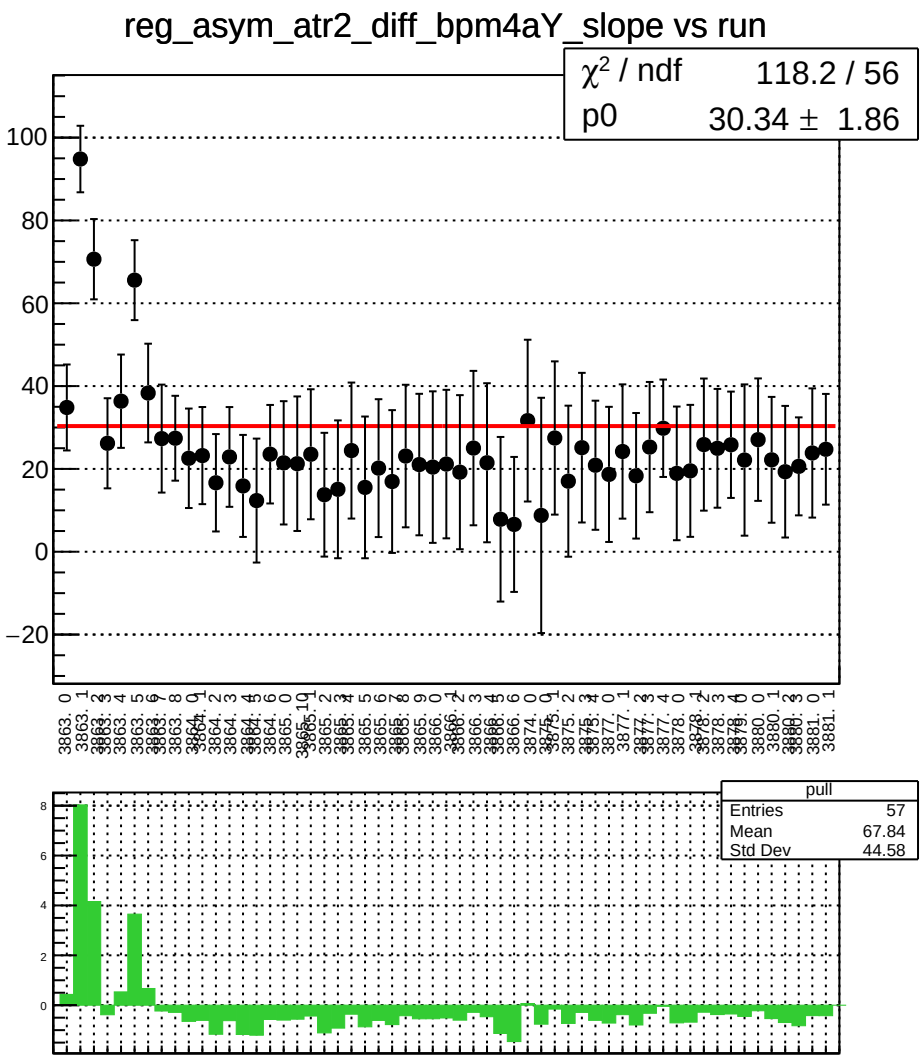

pull1D
Entries 57
Mean 3.159
Std Dev 6.117

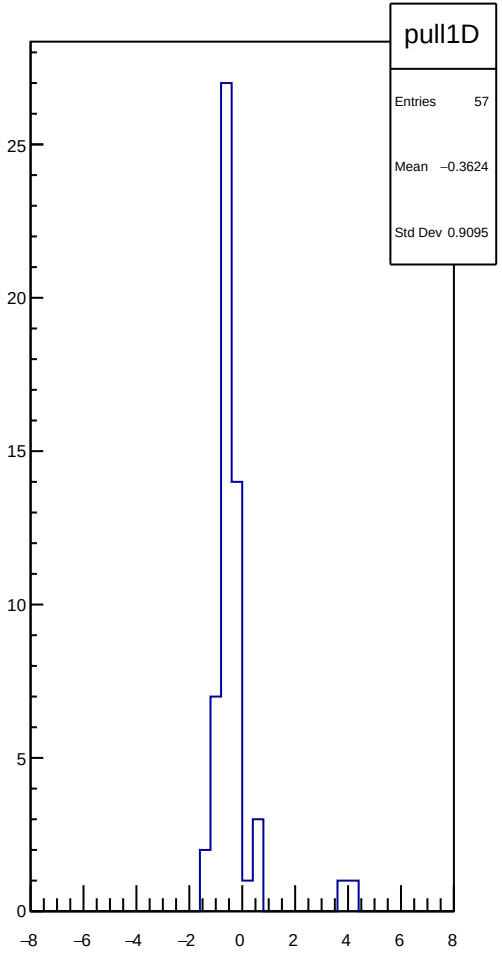

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 348.5 / 56
p0 −24.44 ± 1.538
pull
Entries 57
Mean 92.38
Std Dev 75.06
pull1D
Entries 57
Mean −0.4217
Std Dev 1.742

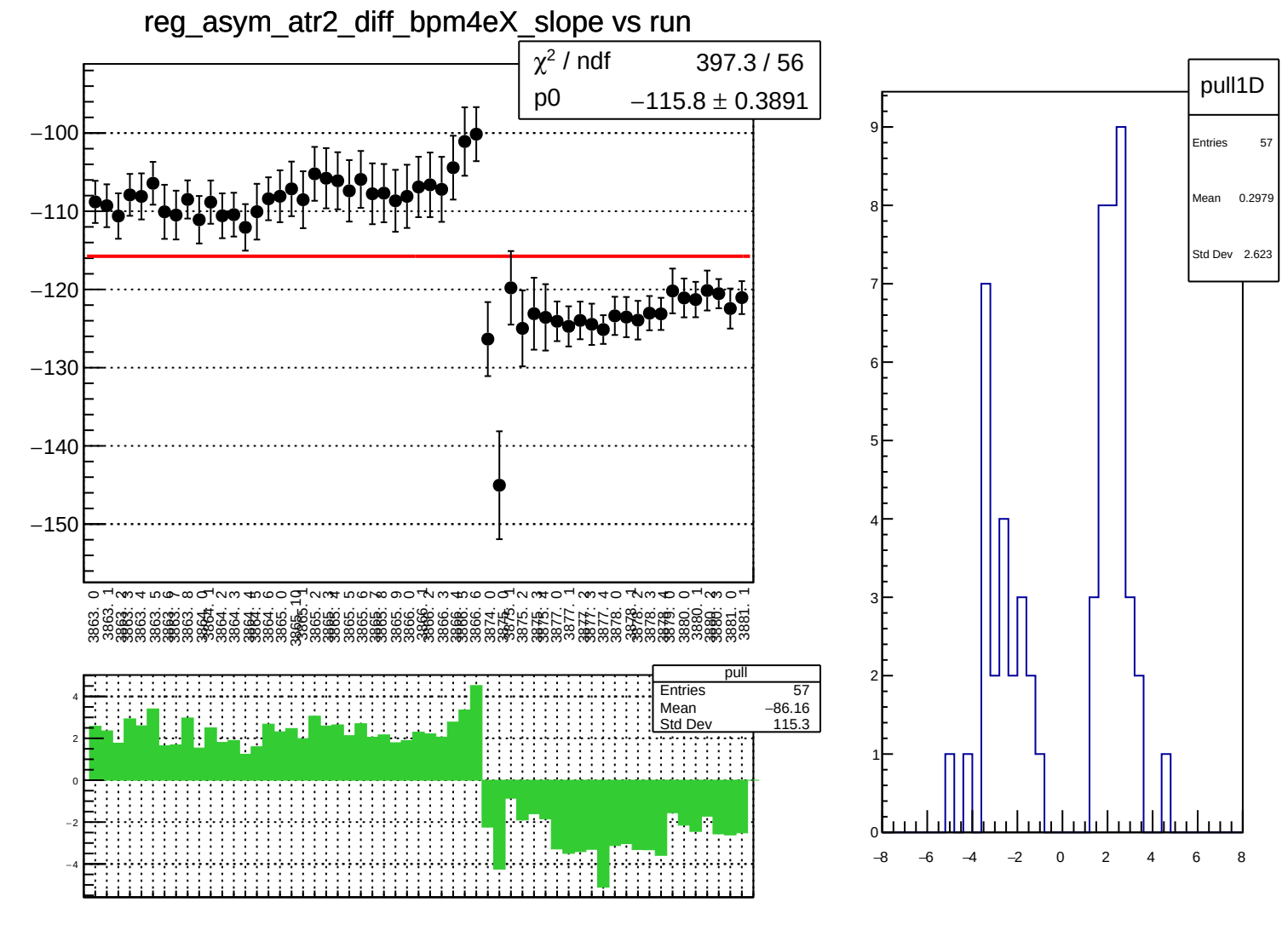

reg_asym_atl1_diff_bpm11X_slope vs run
χ² / ndf 1.957e+04 / 56
p0 61.22 ± 0.2757
pull
Entries 57
Mean −107.9
Std Dev 136.4
pull1D
Entries 57
Mean −3.331
Std Dev 1.884

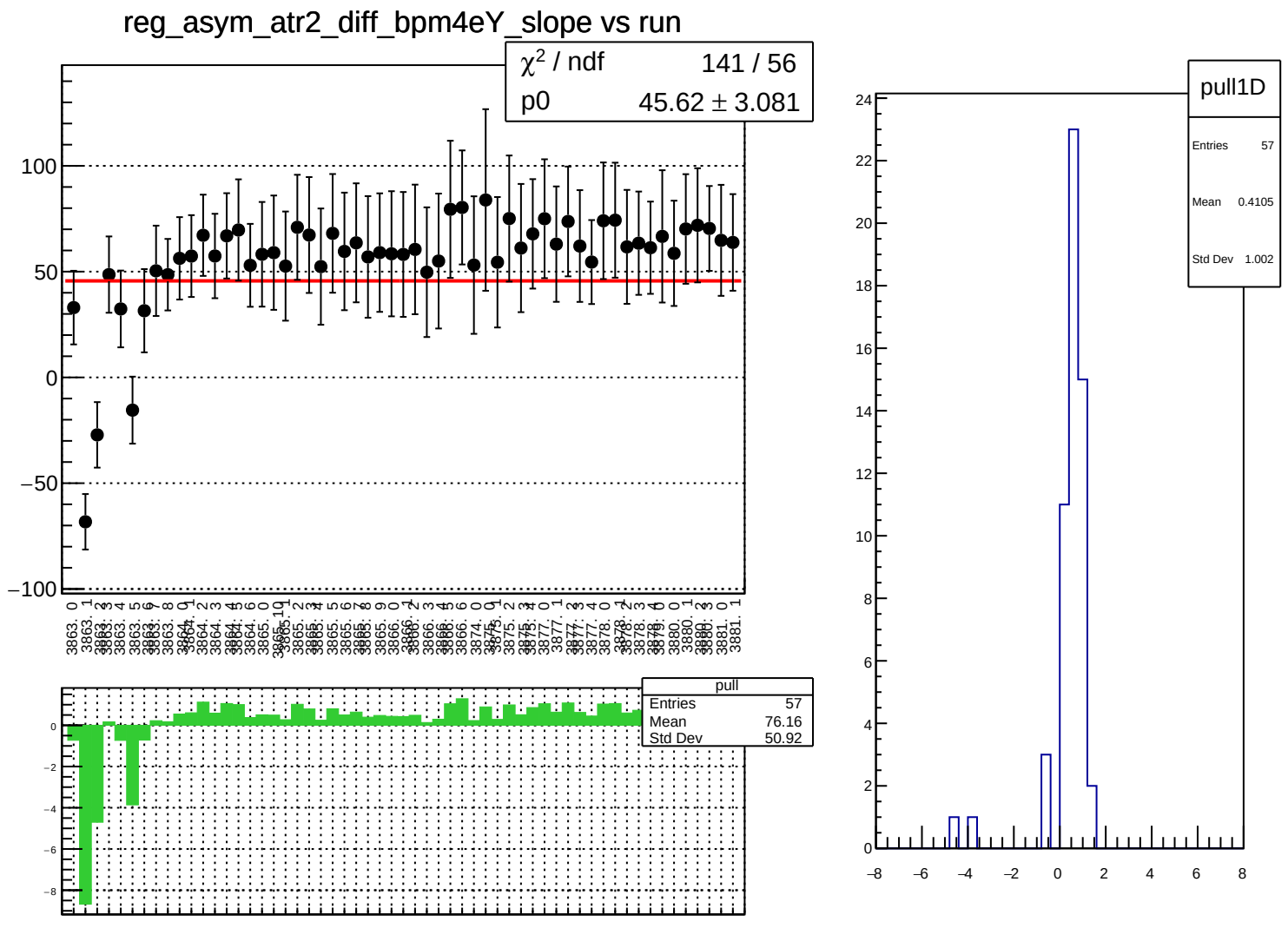

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 7.429 / 56
p0 6.503 ± 2.34
pull
Entries 57
Mean −662.5
Std Dev 694.4

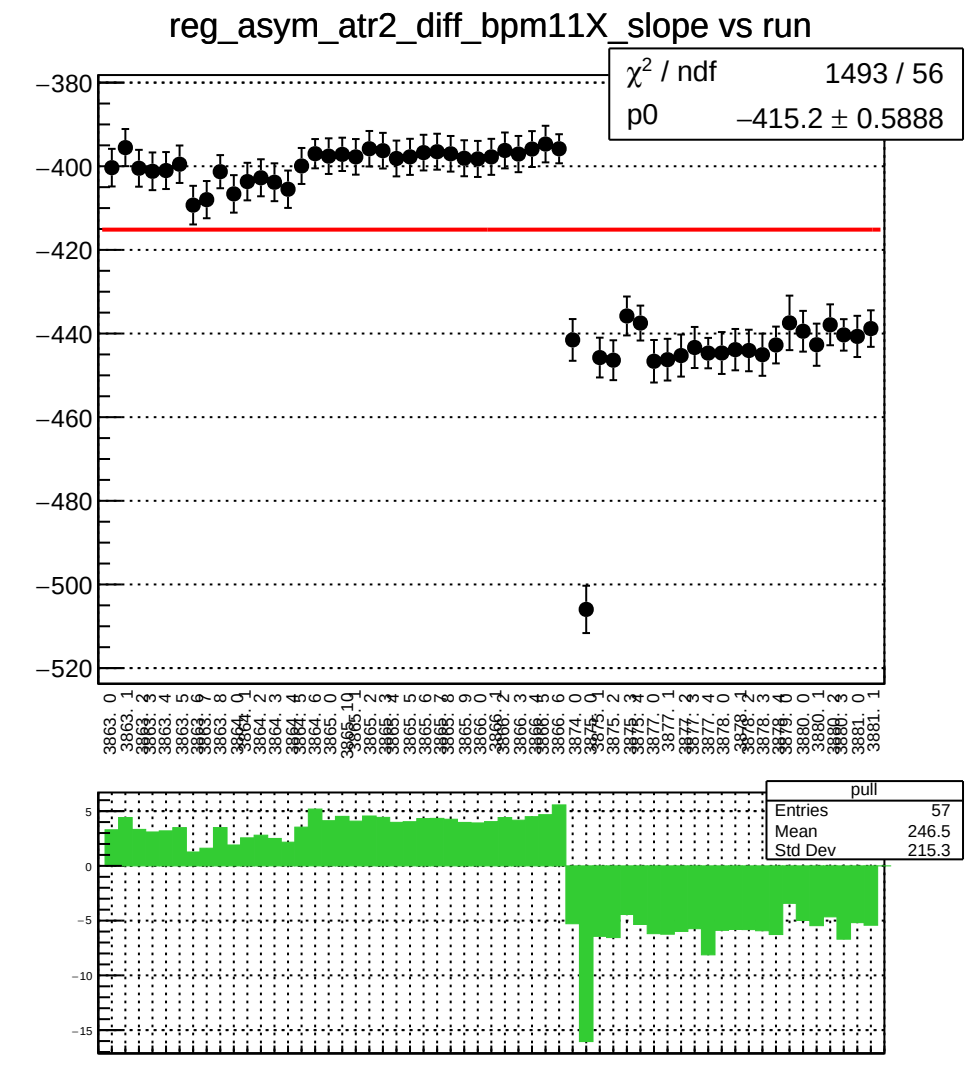

pull1D
Entries 57
Mean 0.003293
Std Dev 0.361

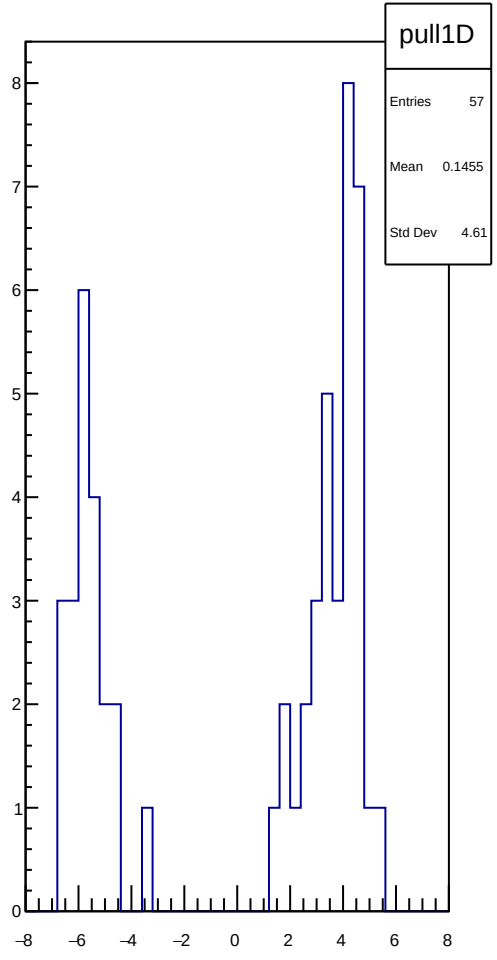

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 118.2 / 56
p0 30.34 ± 1.86
pull
Entries 57
Mean 67.84
Std Dev 44.58

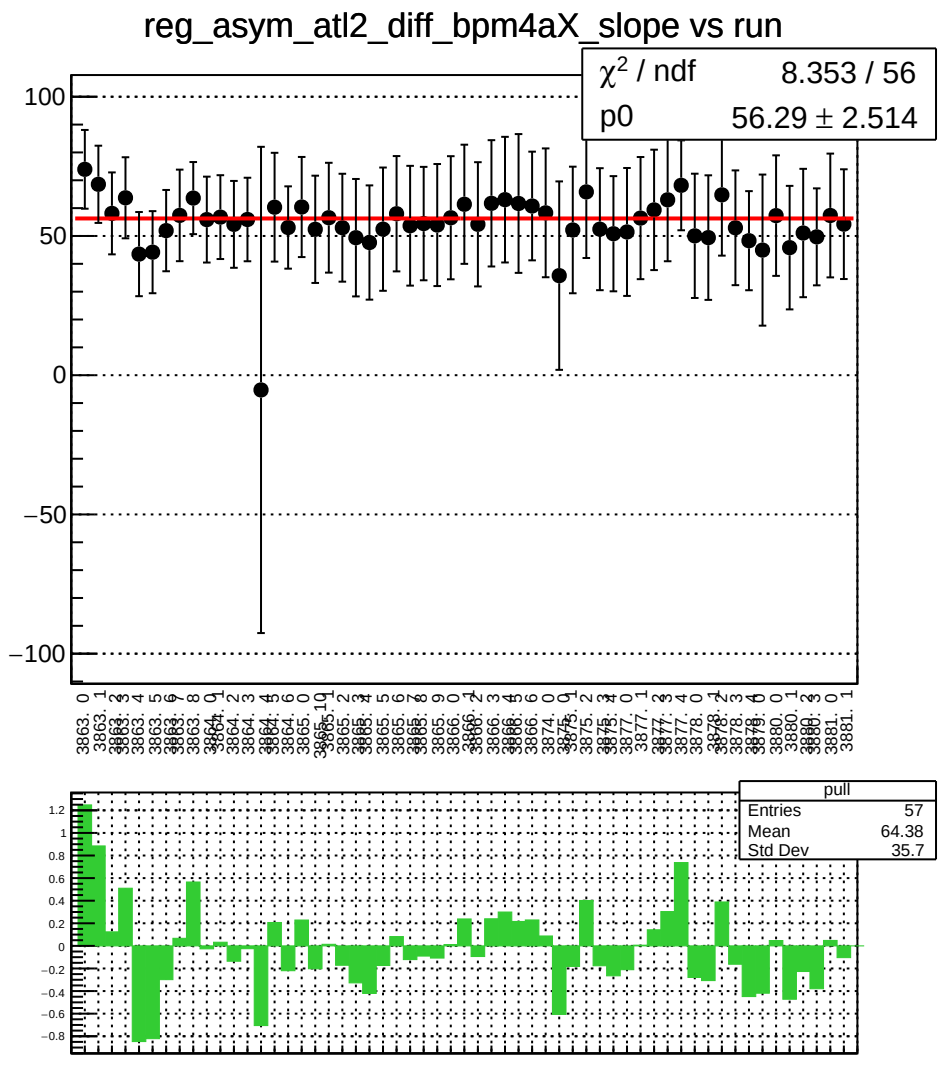

pull1D
Entries 57
Mean −0.3624
Std Dev 0.9095

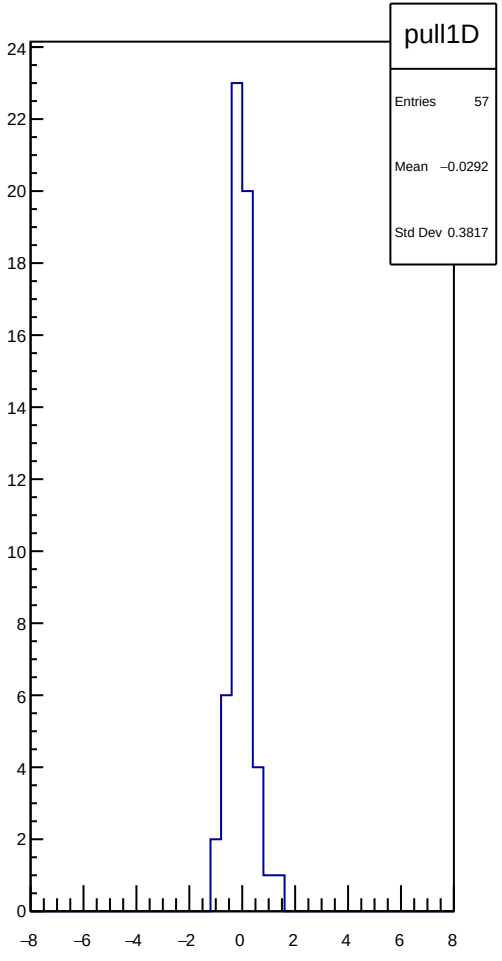

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 397.3 / 56
p0 −115.8 ± 0.3891
pull
Entries 57
Mean −86.16
Std Dev 115.3
pull1D
Entries 57
Mean 0.2979
Std Dev 2.623

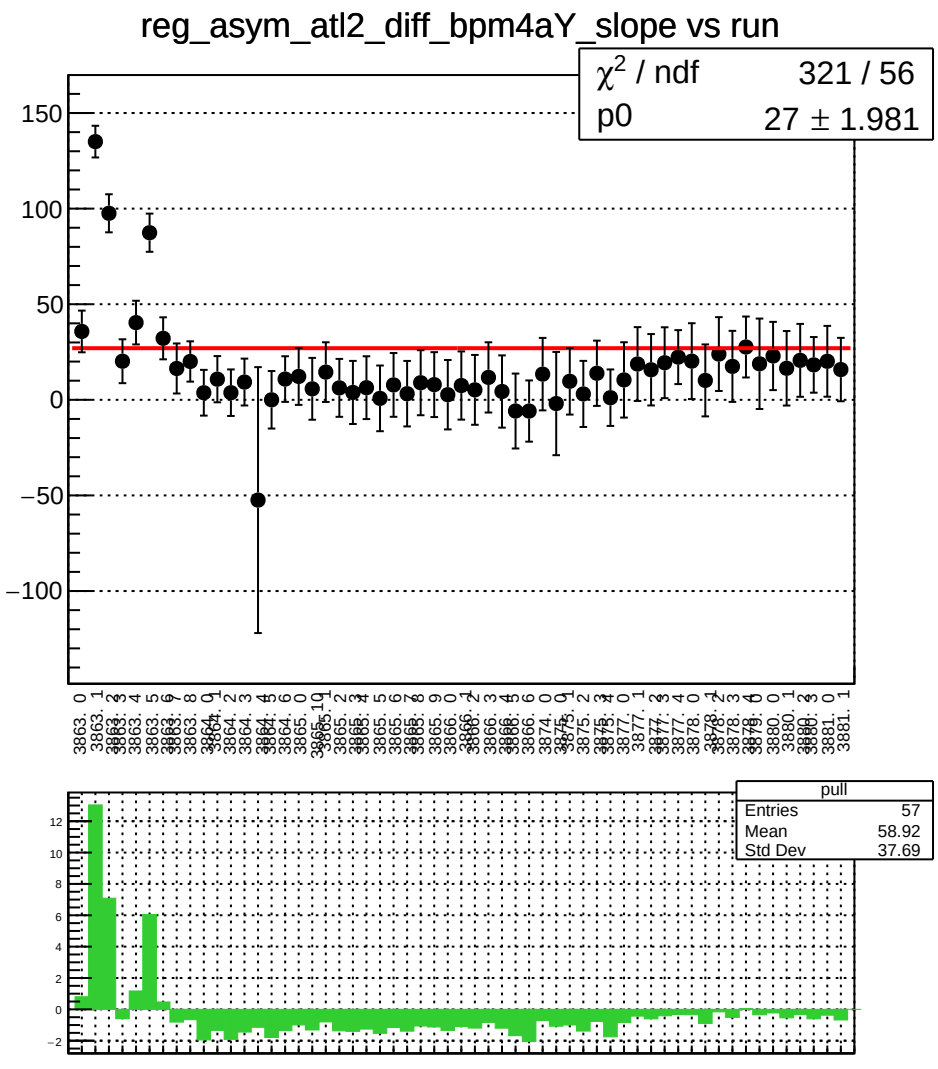

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 141 / 56
p0 45.62 ± 3.081
pull
Entries 57
Mean 76.16
Std Dev 50.92
pull1D
Entries 57
Mean 0.4105
Std Dev 1.002

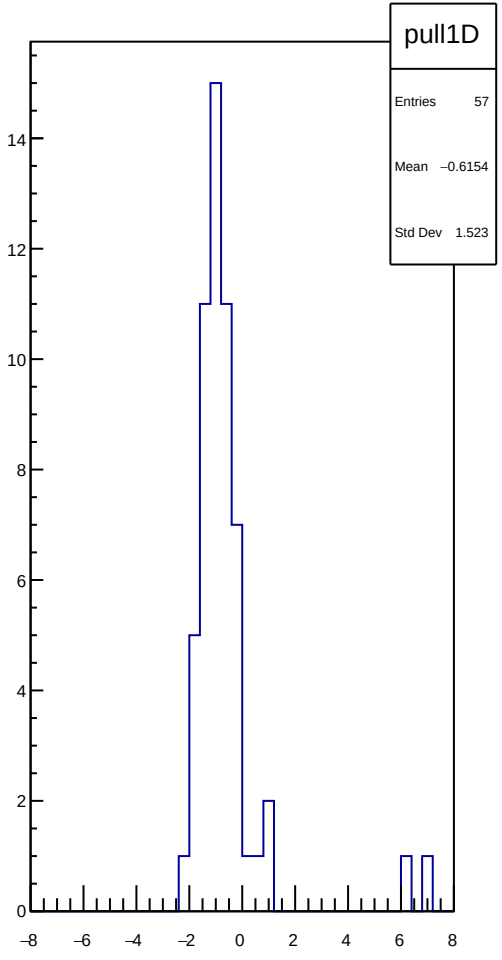

reg_asym_atr2_diff_bpm11X_slope vs run
χ² / ndf 1493 / 56
p0 −415.2 ± 0.5888
pull
Entries 57
Mean 246.5
Std Dev 215.3

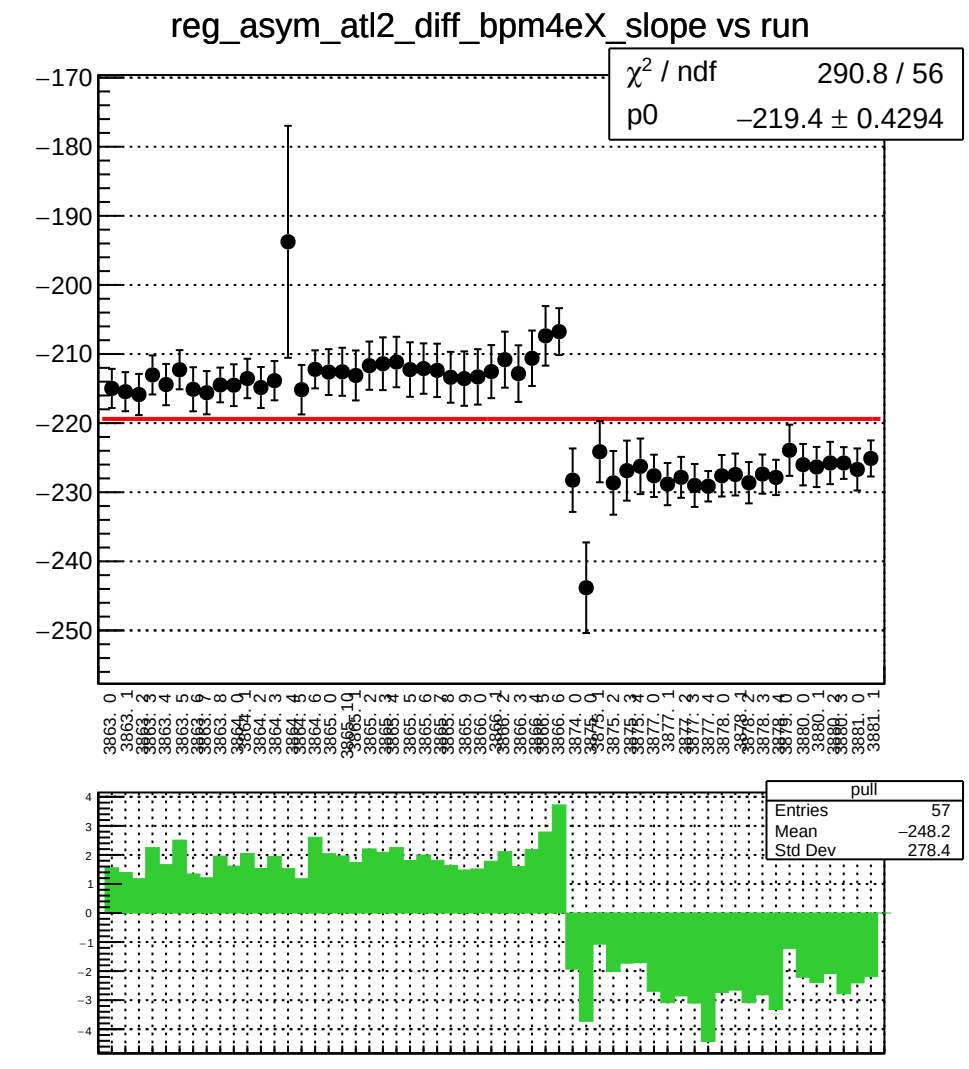

pull1D
Entries 57
Mean 0.1455
Std Dev 4.61

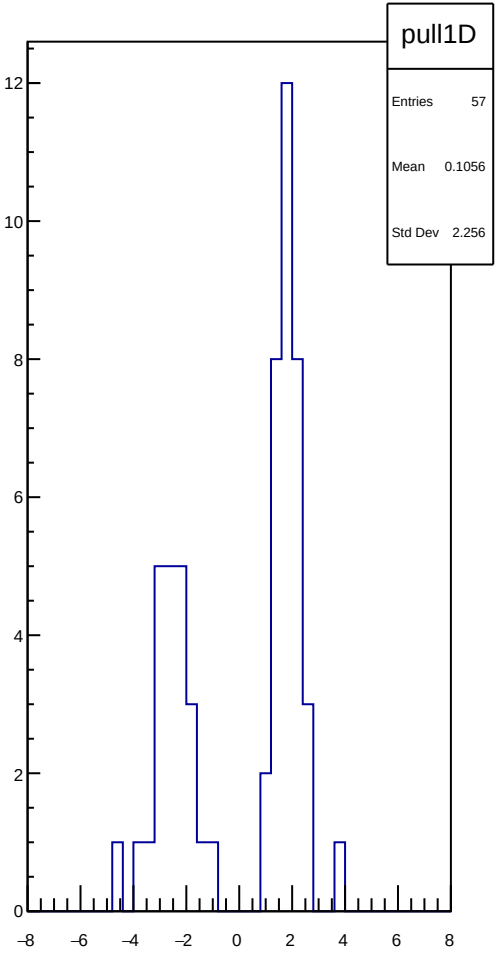

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 8.353 / 56
p0 56.29 ± 2.514
pull
Entries 57
Mean 64.38
Std Dev 35.7

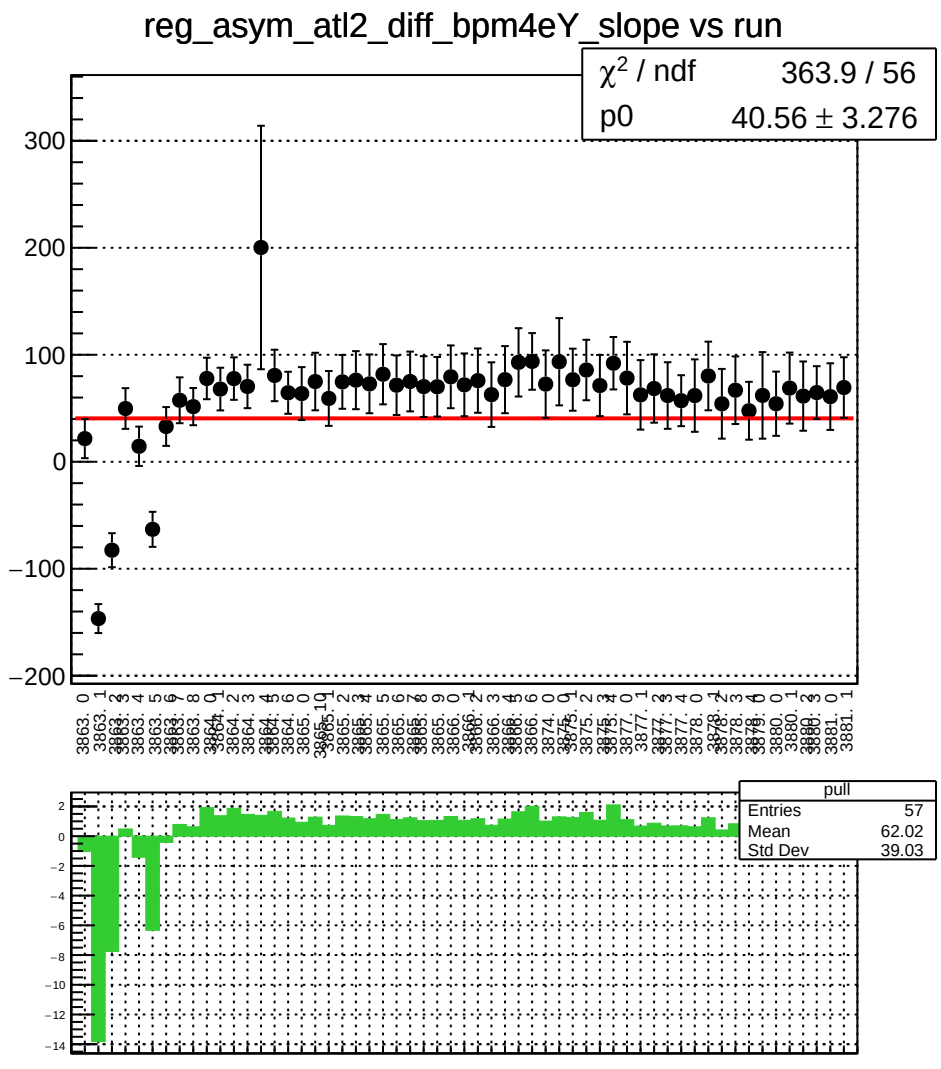

pull1D
Entries 57
Mean −0.0292
Std Dev 0.3817

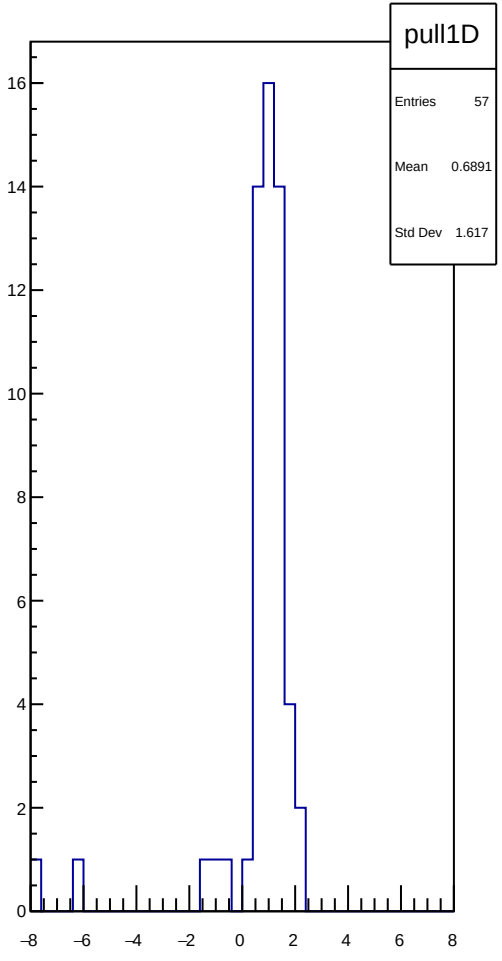

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 321 / 56
p0 27 ± 1.981
pull
Entries 57
Mean 58.92
Std Dev 37.69

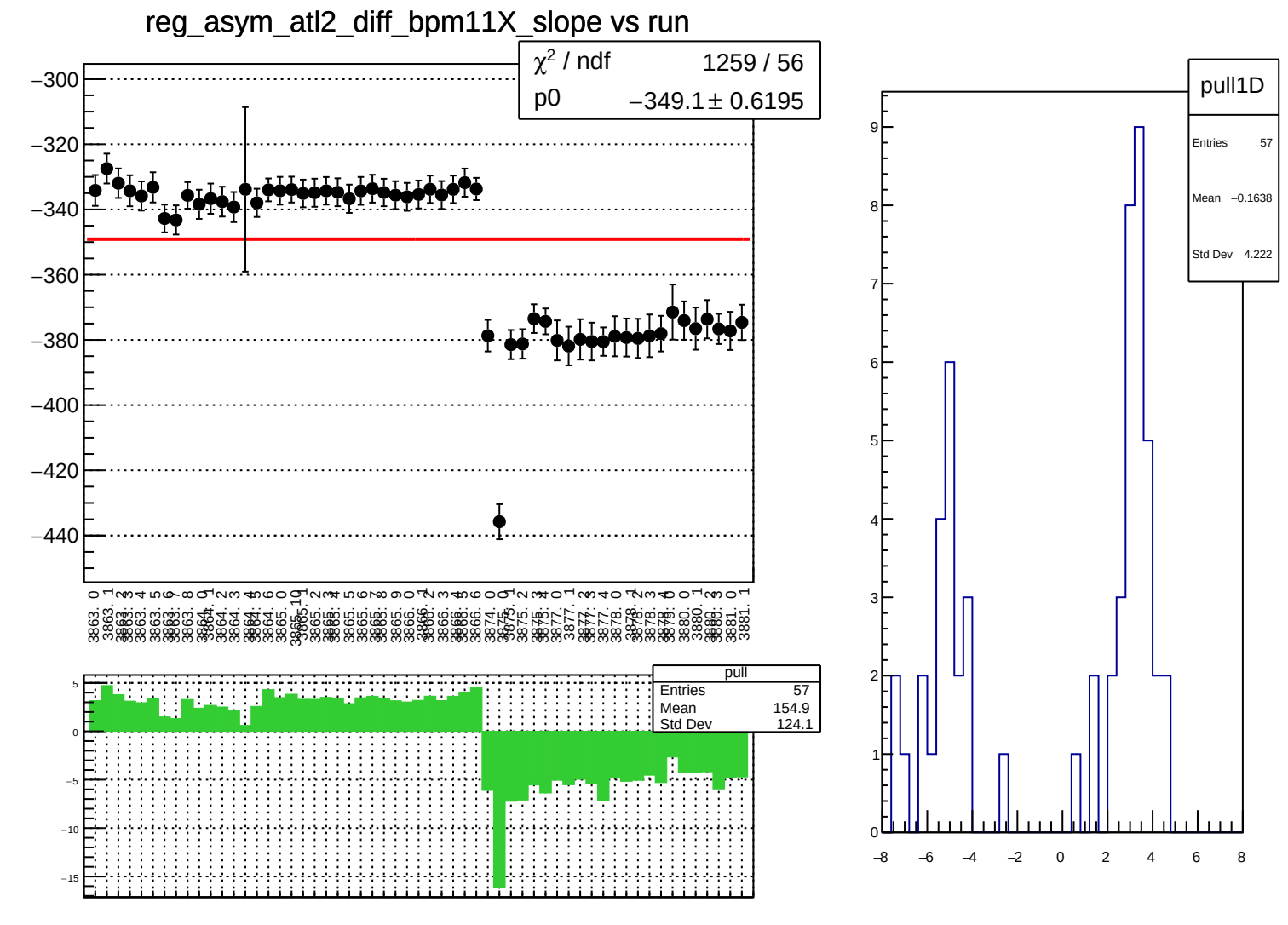

pull1D
Entries 57
Mean −0.6154
Std Dev 1.523

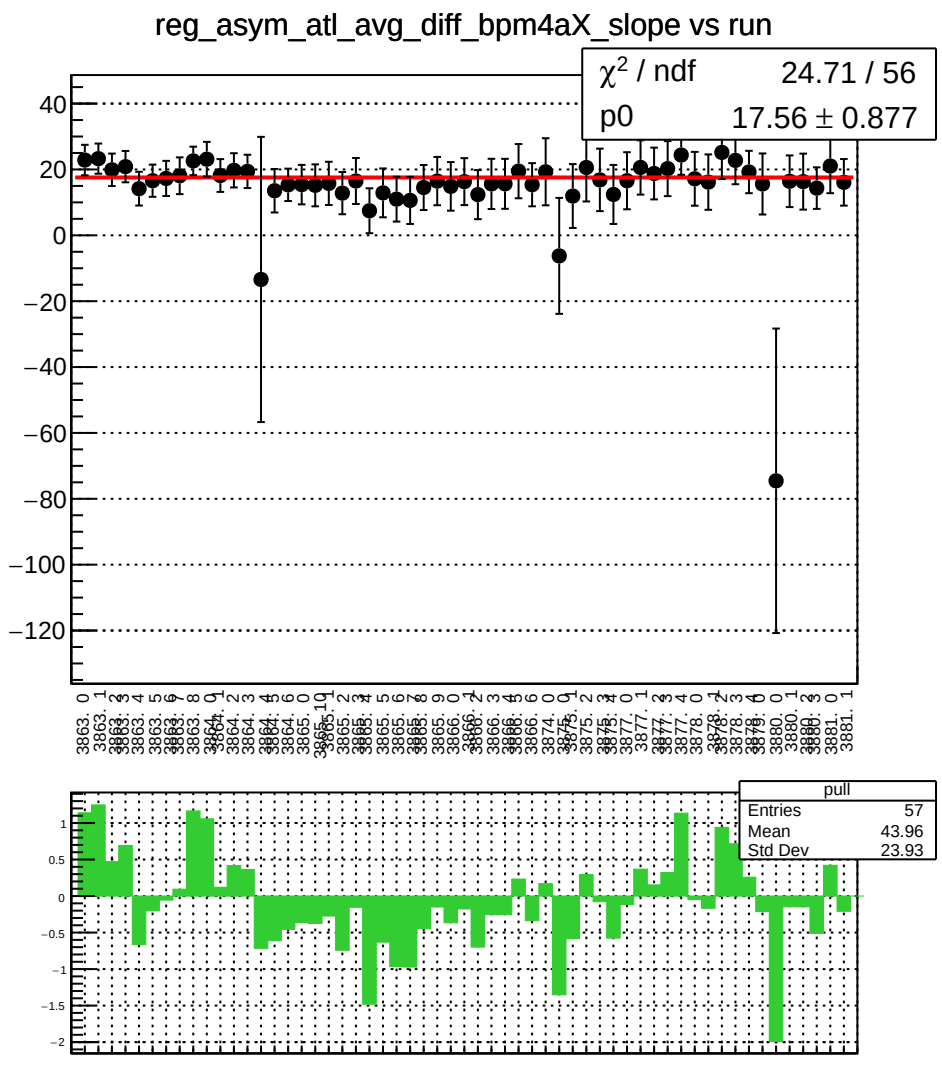

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 290.8 / 56
p0 −219.4 ± 0.4294
pull
Entries 57
Mean −248.2
Std Dev 278.4

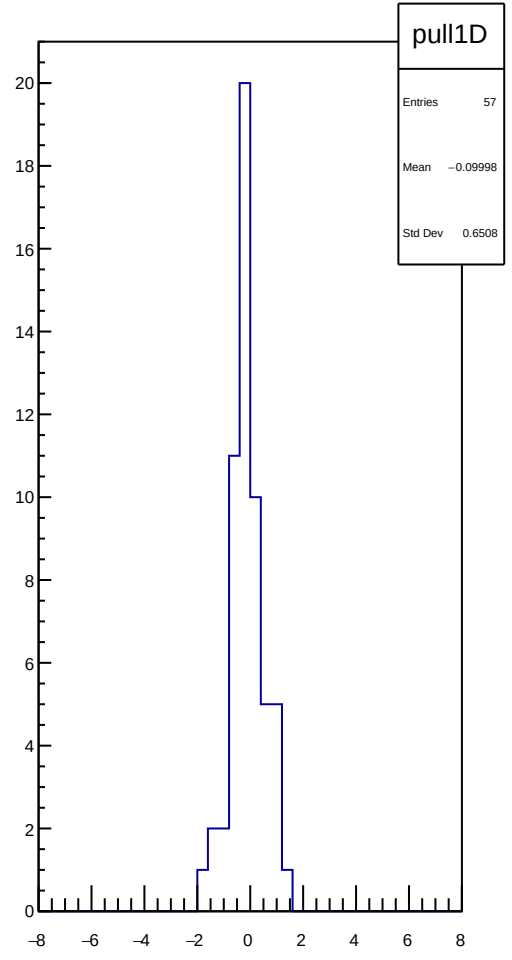

pull1D
Entries 57
Mean 0.1056
Std Dev 2.256

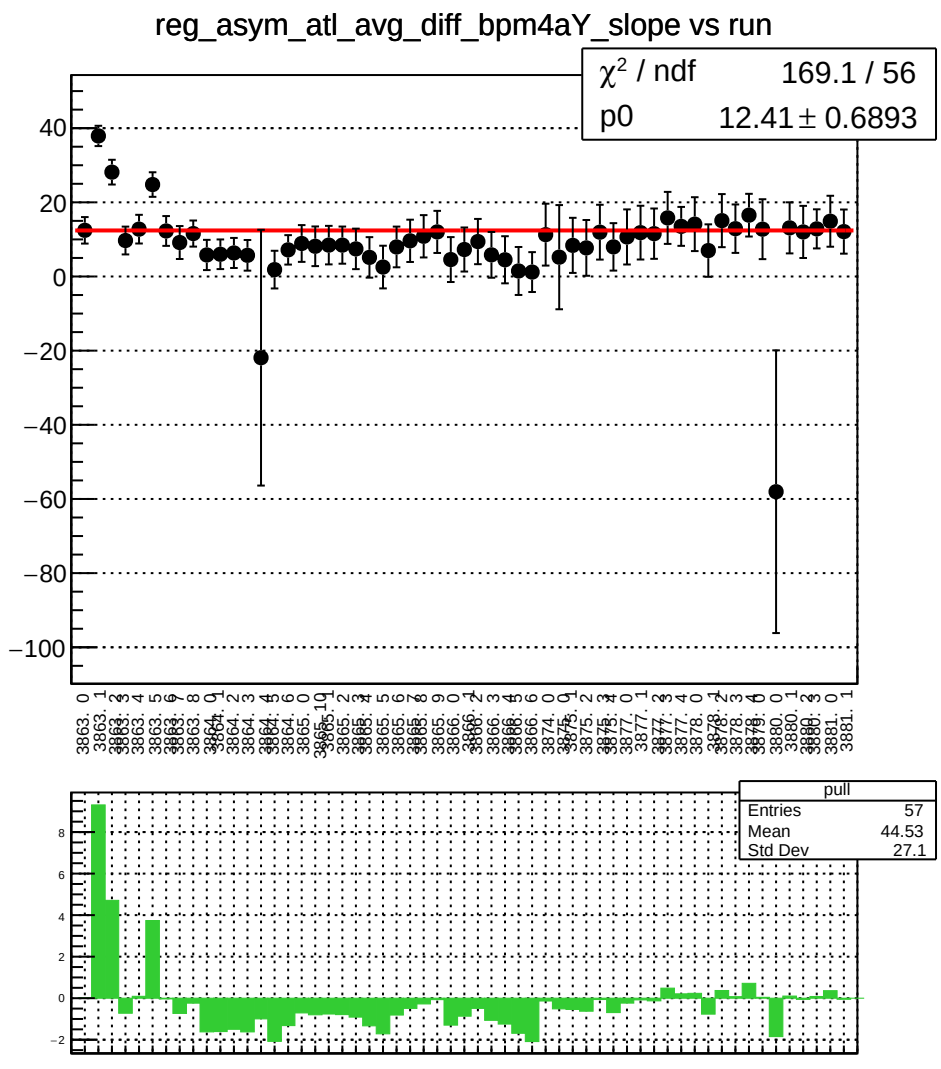

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 363.9 / 56
p0 40.56 ± 3.276
pull
Entries 57
Mean 62.02
Std Dev 39.03

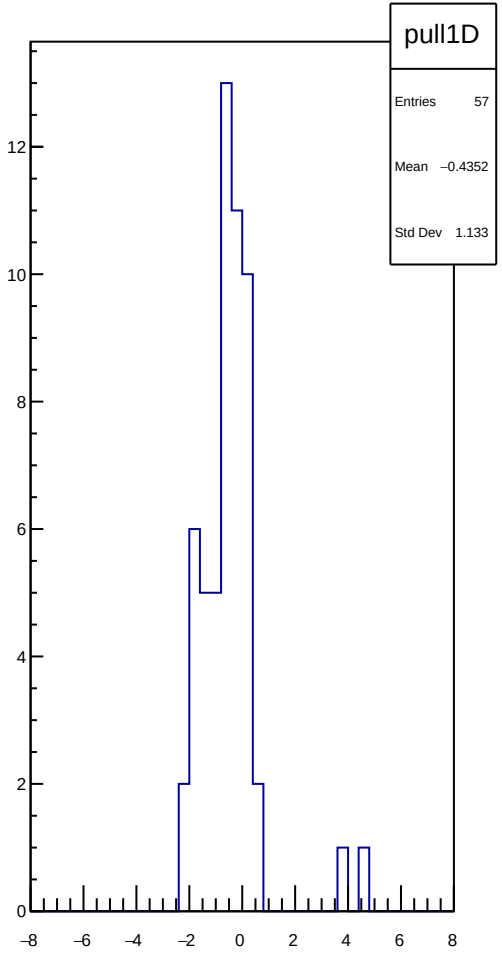

pull1D
Entries 57
Mean 0.6891
Std Dev 1.617

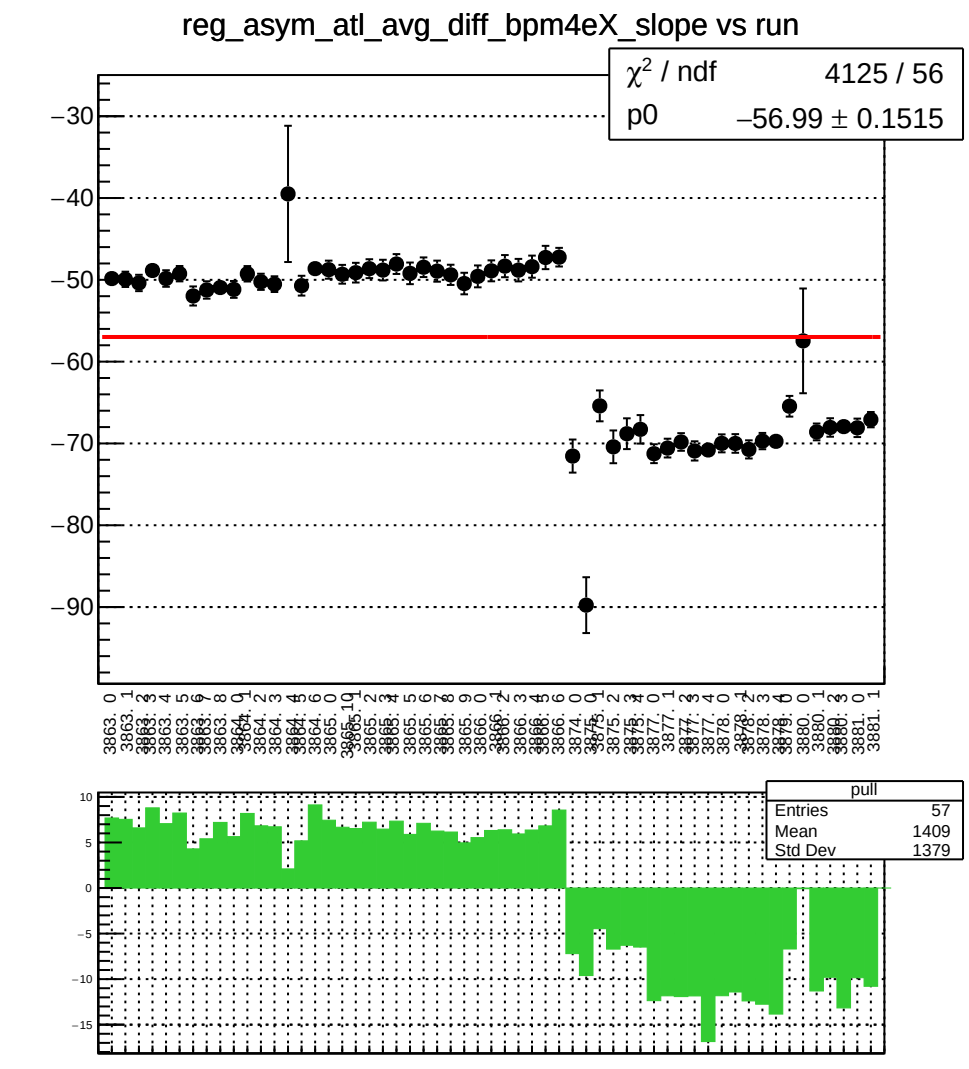

reg_asym_atl2_diff_bpm11X_slope vs run
χ² / ndf 1259 / 56
p0 −349.1 ± 0.6195
pull
Entries 57
Mean 154.9
Std Dev 124.1
pull1D
Entries 57
Mean −0.1638
Std Dev 4.222

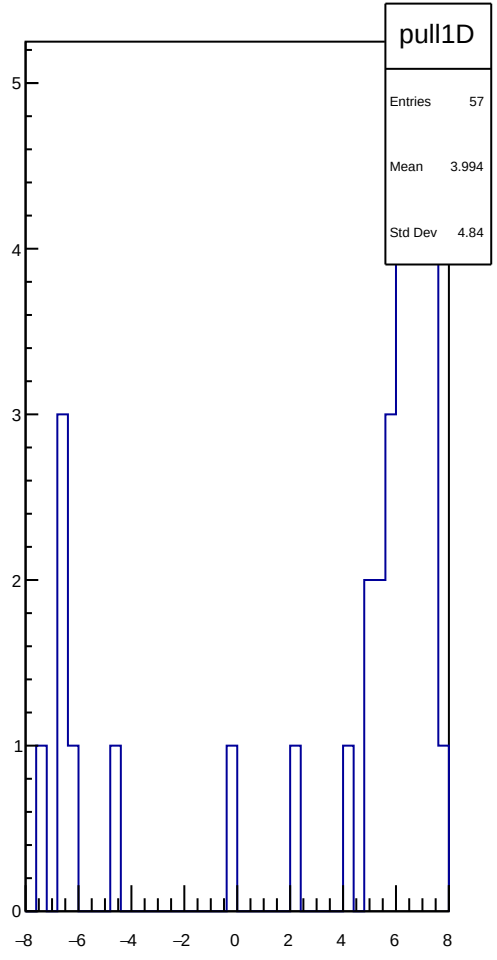

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 24.71 / 56
p0 17.56 ± 0.877
pull
Entries 57
Mean 43.96
Std Dev 23.93

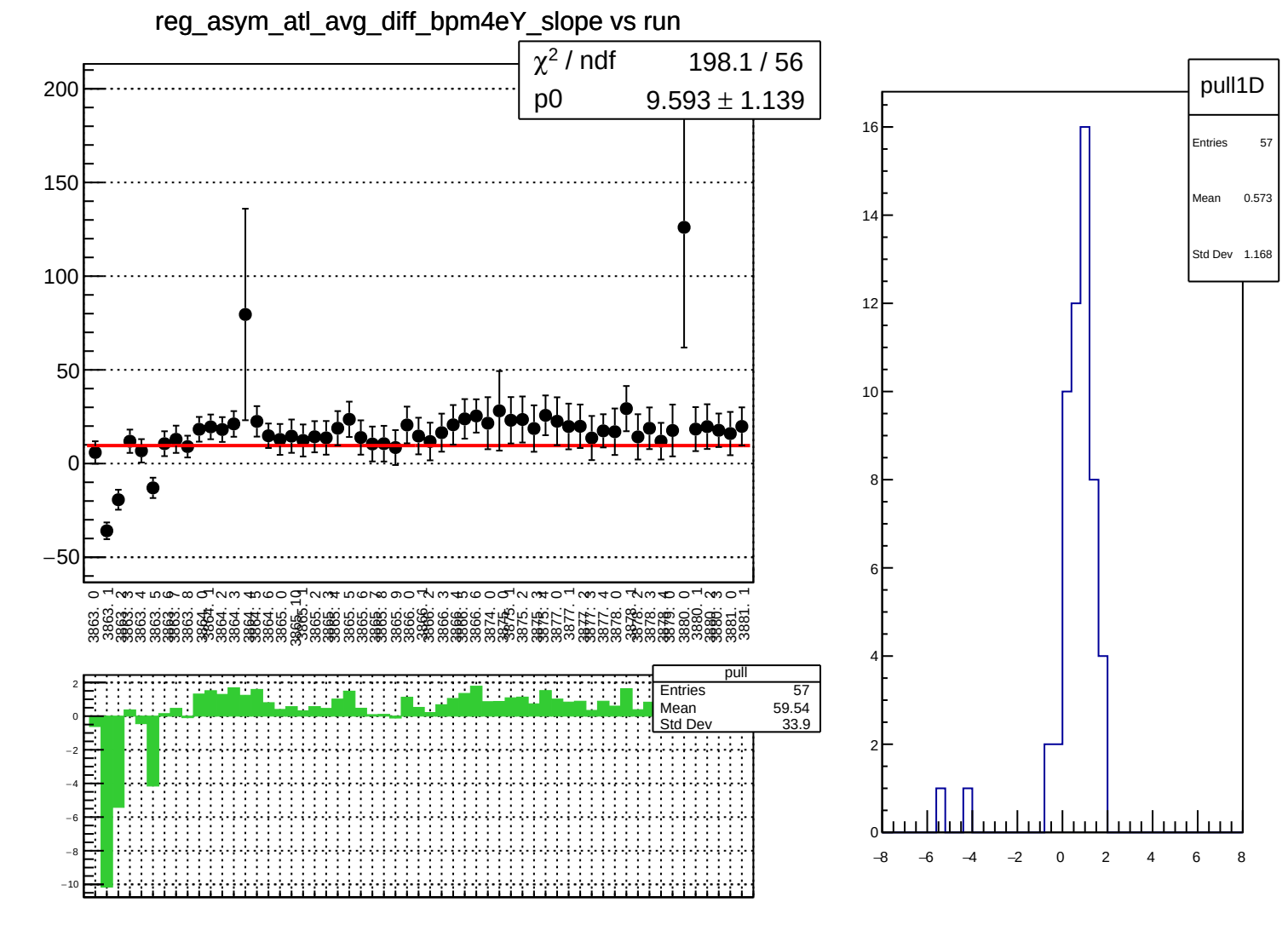

pull1D
Entries 57
Mean −0.09998
Std Dev 0.6508

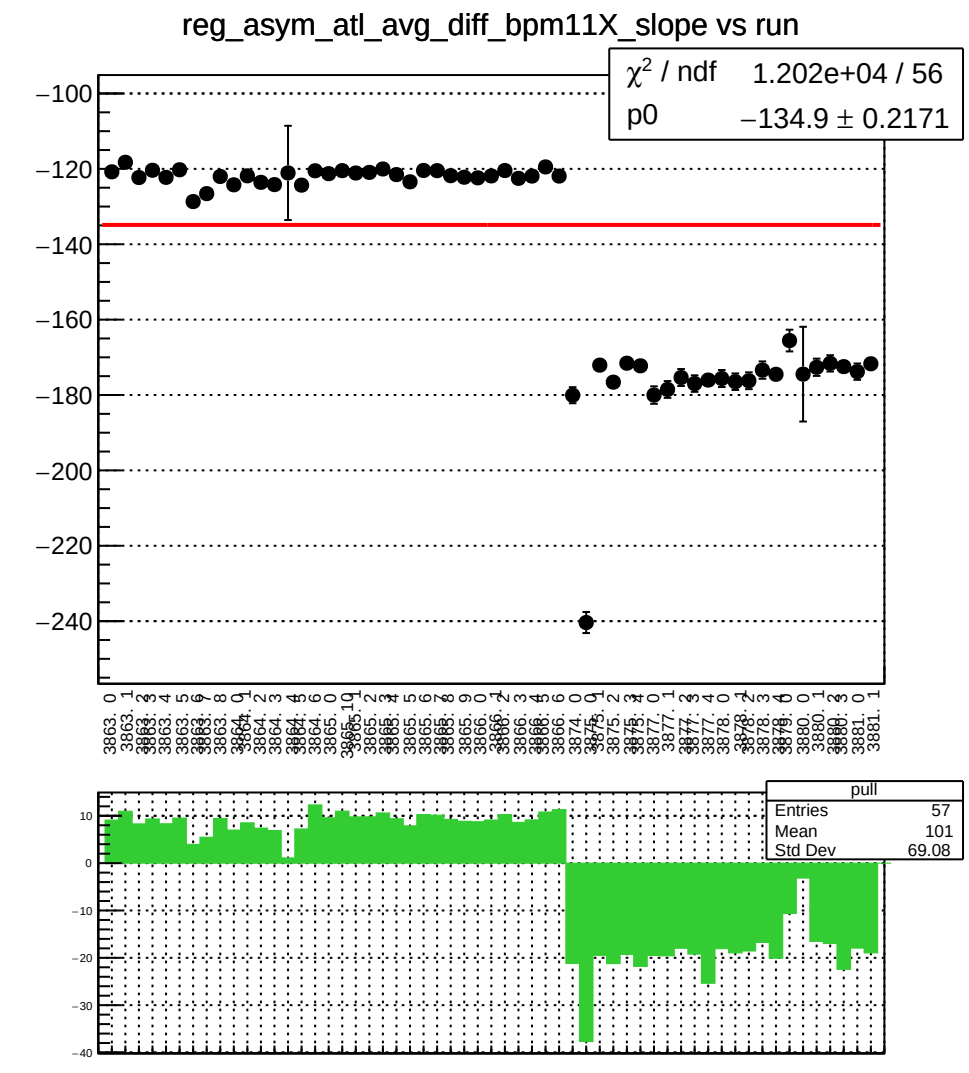

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 169.1 / 56
p0 12.41 ± 0.6893
pull
Entries 57
Mean 44.53
Std Dev 27.1

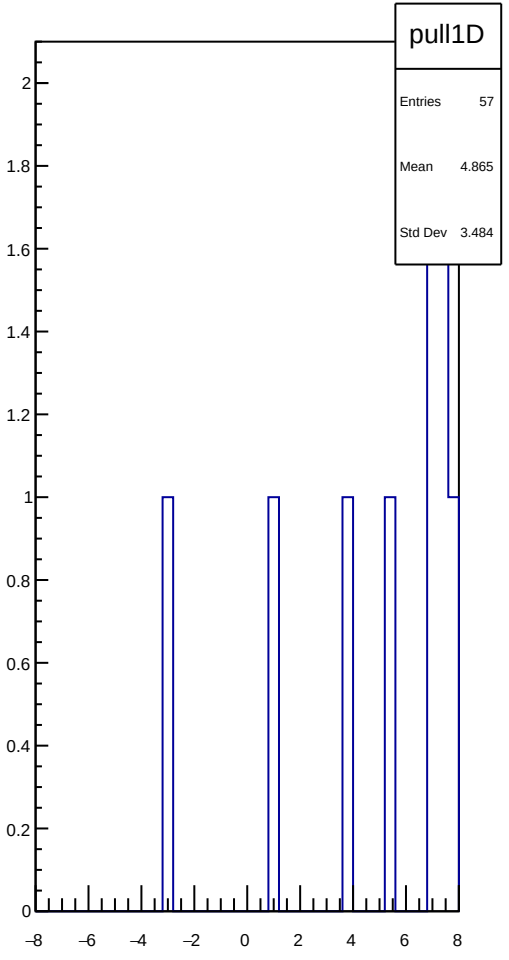

pull1D
Entries 57
Mean −0.4352
Std Dev 1.133

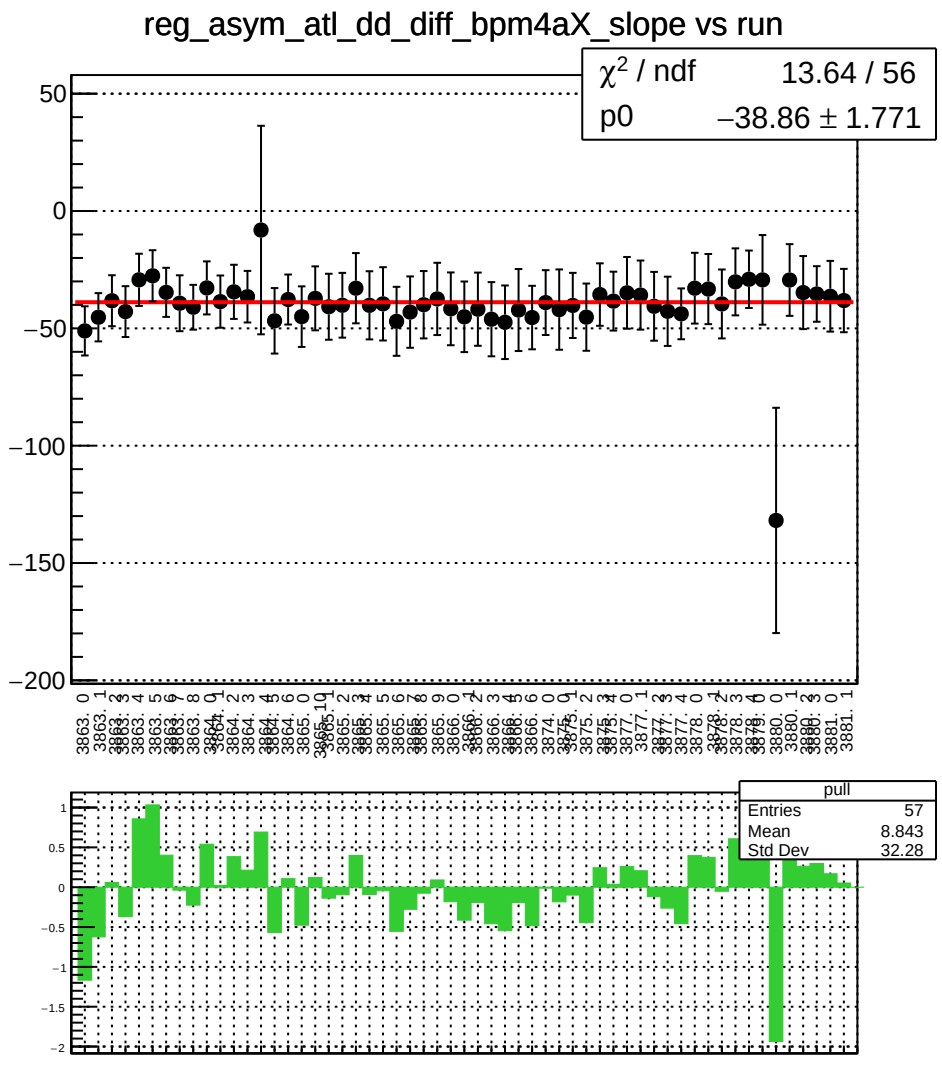

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 4125 / 56
p0 −56.99 ± 0.1515
pull
Entries 57
Mean 1409
Std Dev 1379

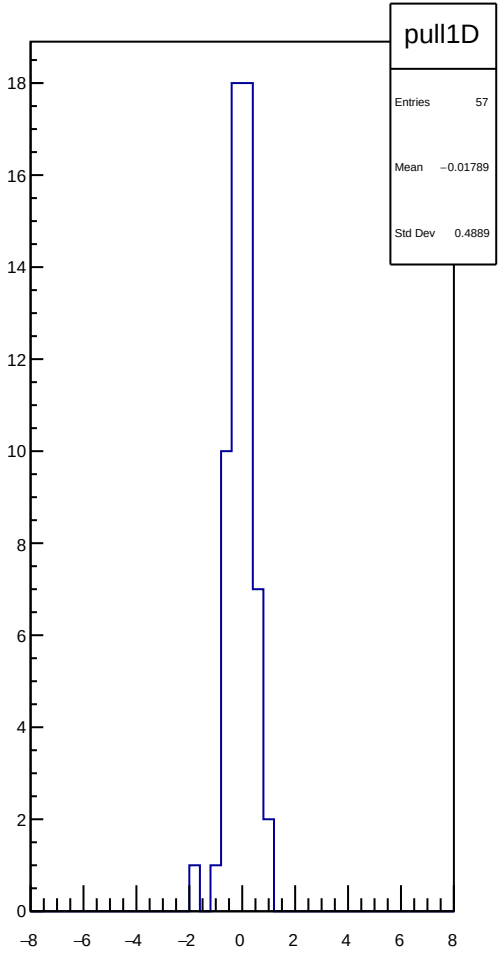

pull1D
Entries 57
Mean 3.994
Std Dev 4.84

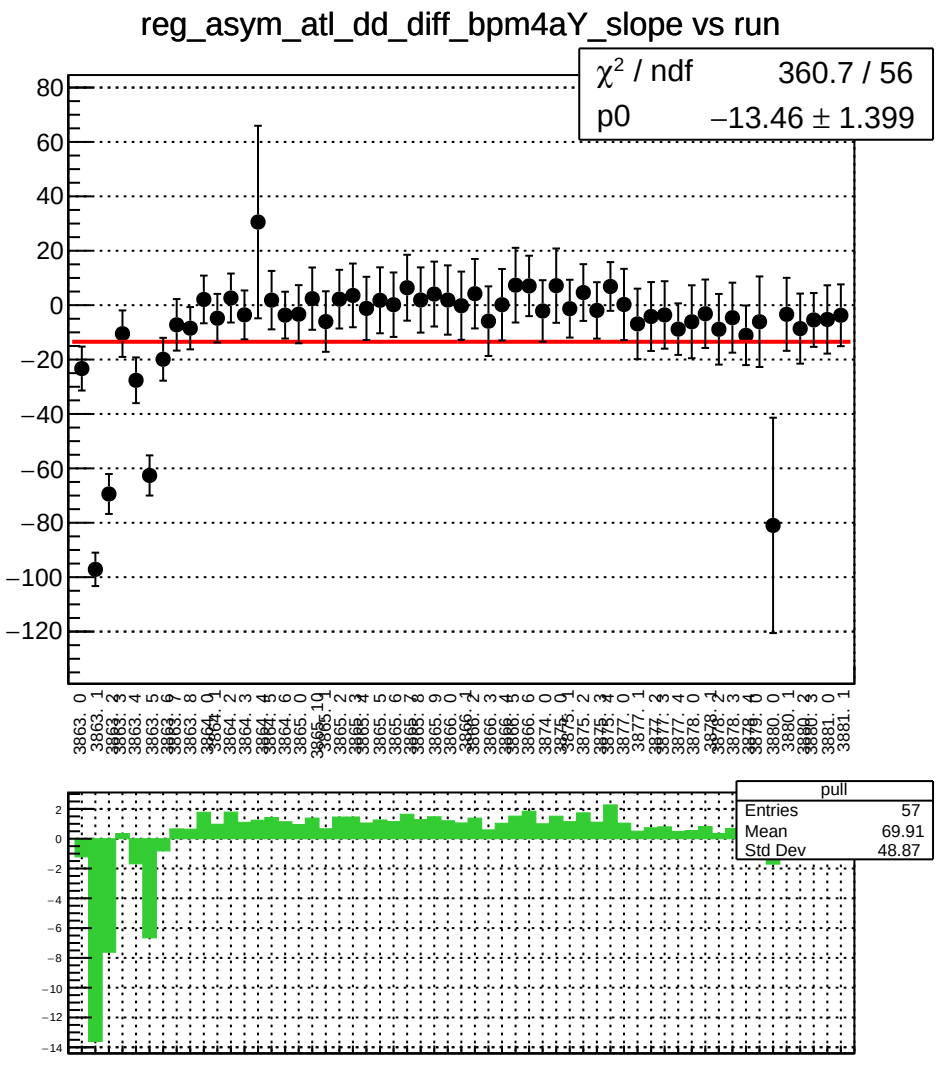

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 198.1 / 56
p0 9.593 ± 1.139
pull
Entries 57
Mean 59.54
Std Dev 33.9
pull1D
Entries 57
Mean 0.573
Std Dev 1.168

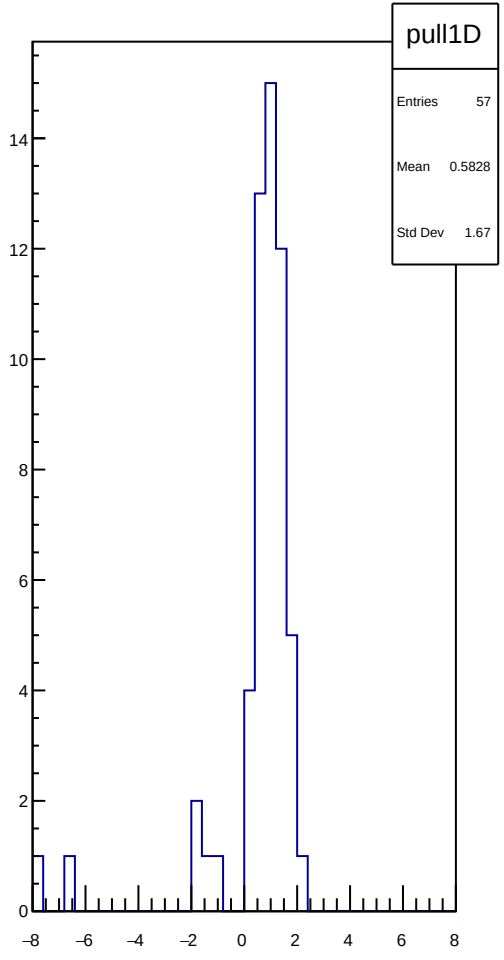

reg_asym_atl_avg_diff_bpm11X_slope vs run
χ² / ndf 1.202e+04 / 56
p0 −134.9 ± 0.2171
pull
Entries 57
Mean 101
Std Dev 69.08

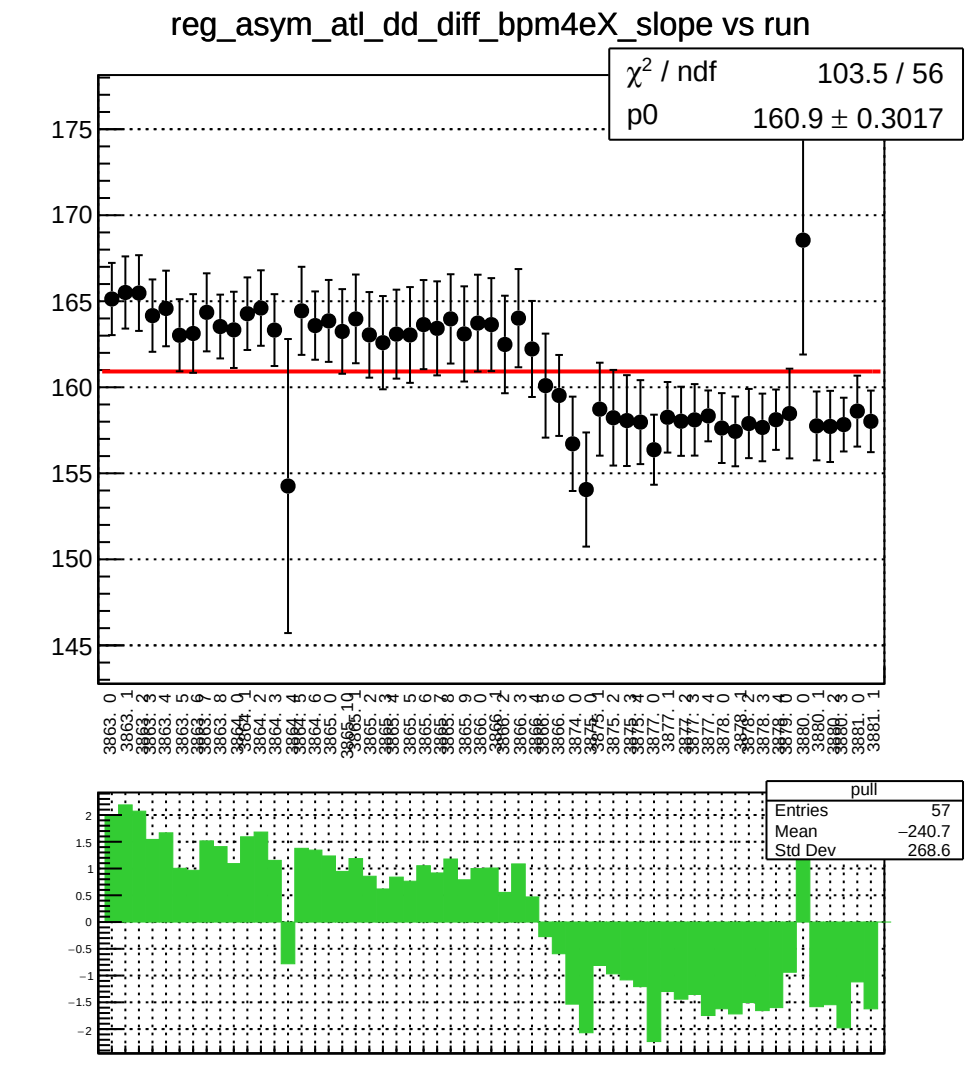

pull1D
Entries 57
Mean 4.865
Std Dev 3.484

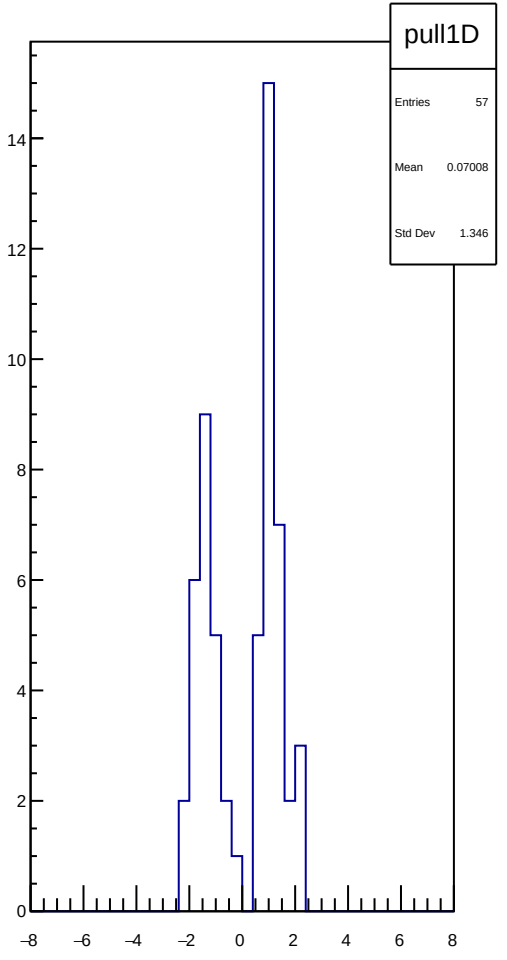

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 13.64 / 56
p0 −38.86 ± 1.771
pull
Entries 57
Mean 8.843
Std Dev 32.28

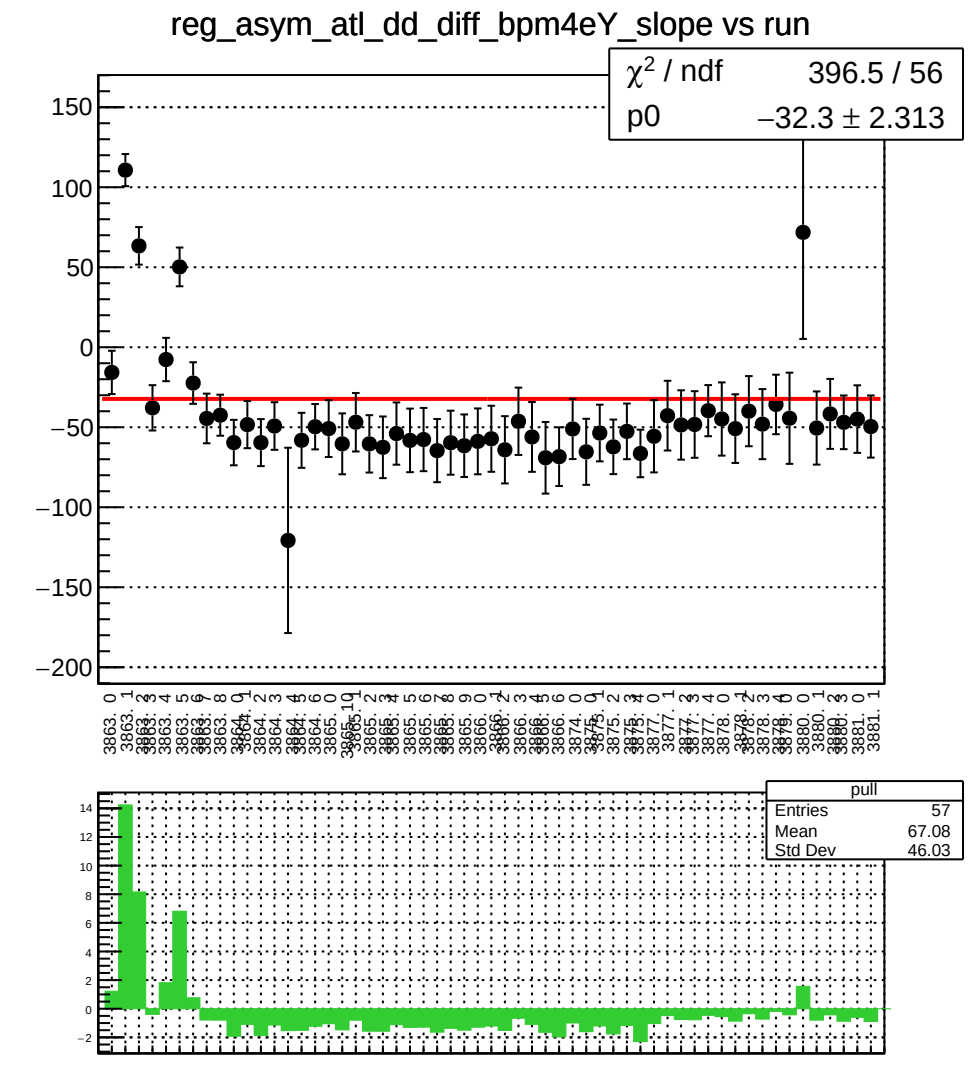

pull1D
Entries 57
Mean −0.01789
Std Dev 0.4889

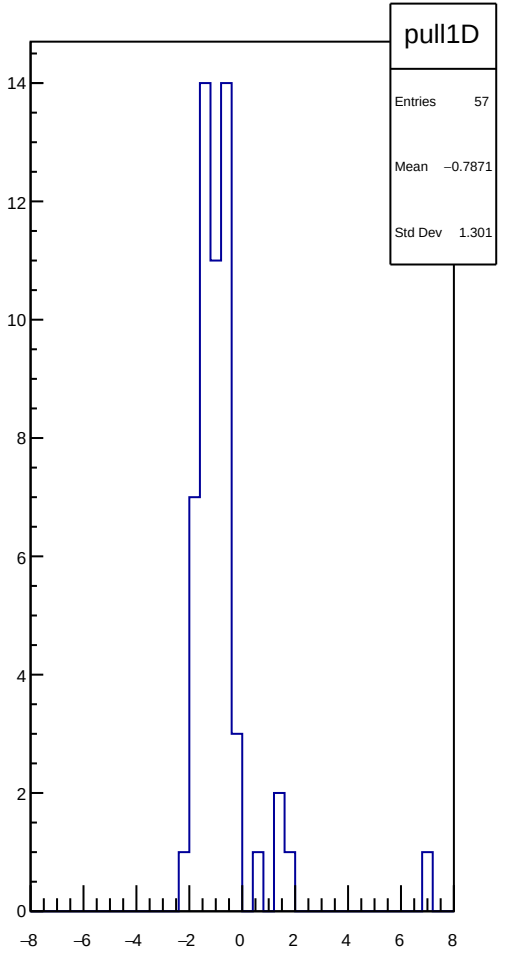

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 360.7 / 56
p0 −13.46 ± 1.399
pull
Entries 57
Mean 69.91
Std Dev 48.87

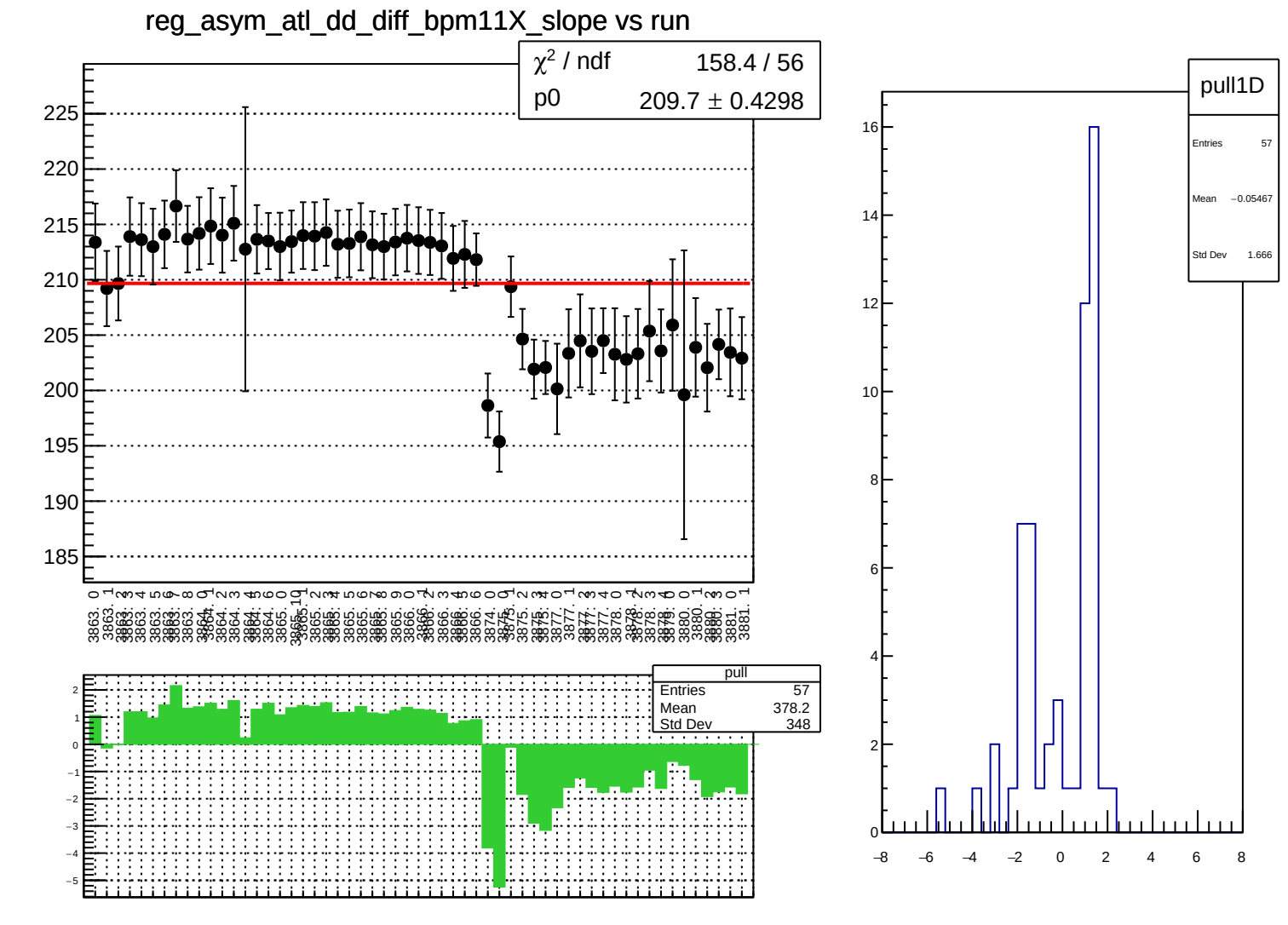

pull1D
Entries 57
Mean 0.5828
Std Dev 1.67

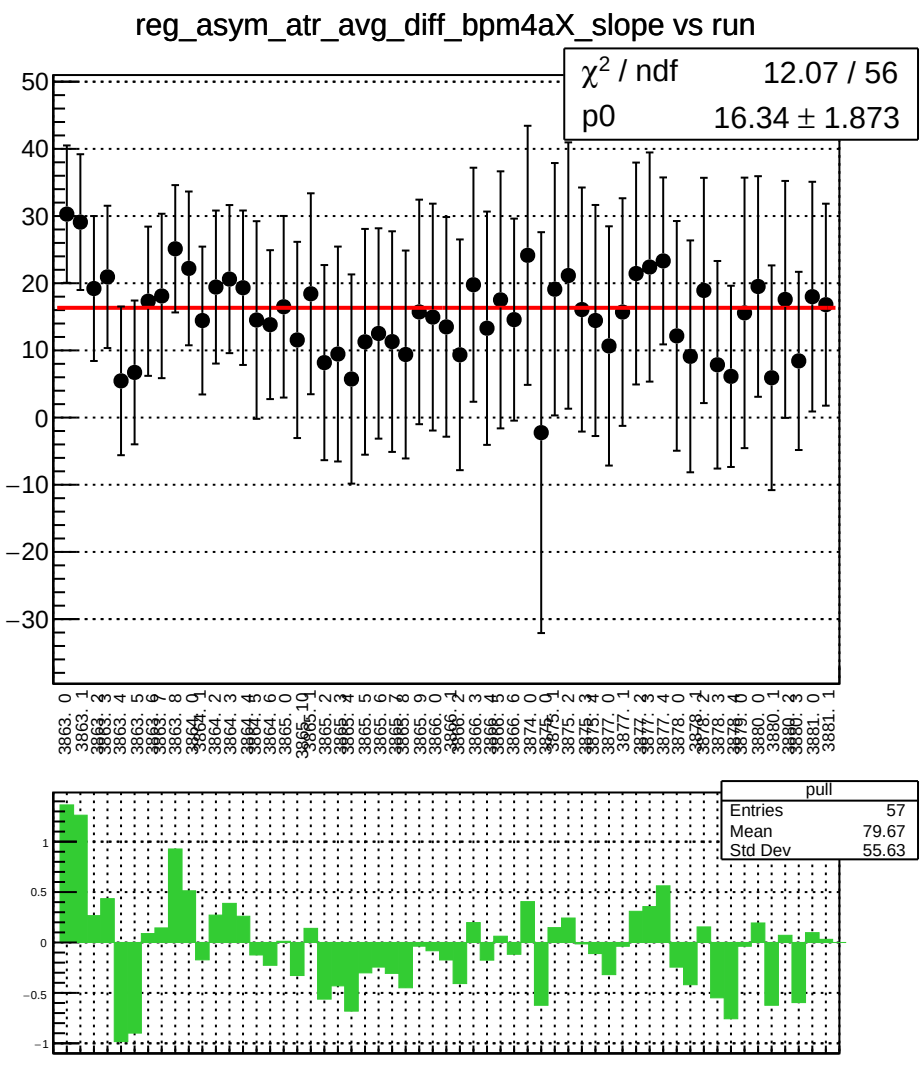

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 103.5 / 56
p0 160.9 ± 0.3017
175
170
165
160
155
150
145
pull
Entries 57
Mean −240.7
Std Dev 268.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

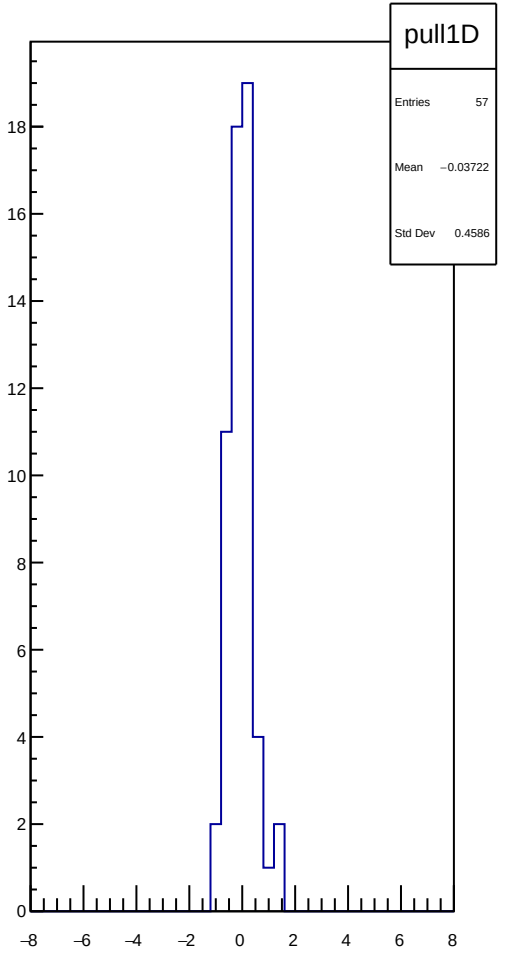

pull1D
Entries 57
Mean 0.07008
Std Dev 1.346
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

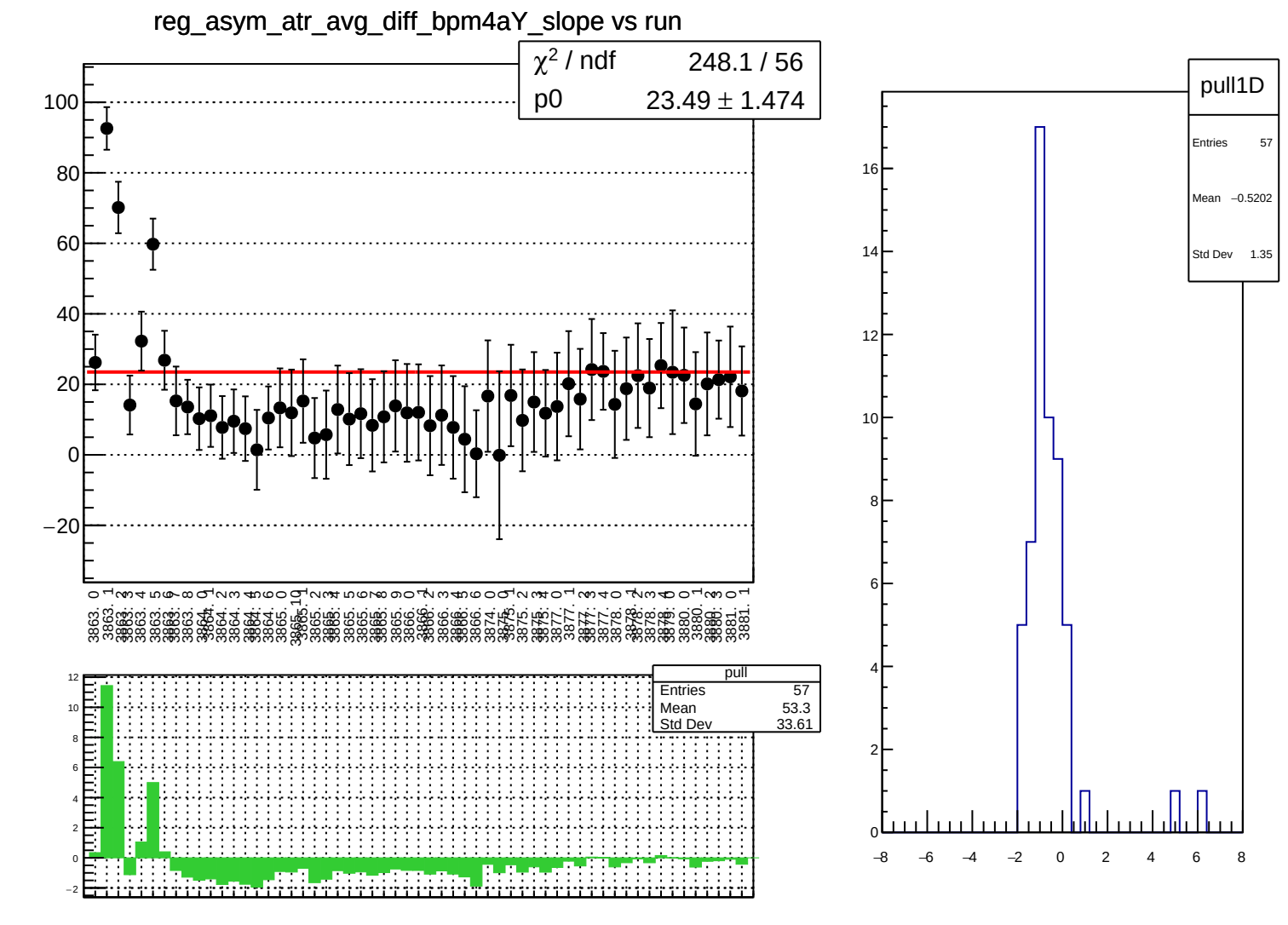

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 396.5 / 56
p0 −32.3 ± 2.313
pull
Entries 57
Mean 67.08
Std Dev 46.03

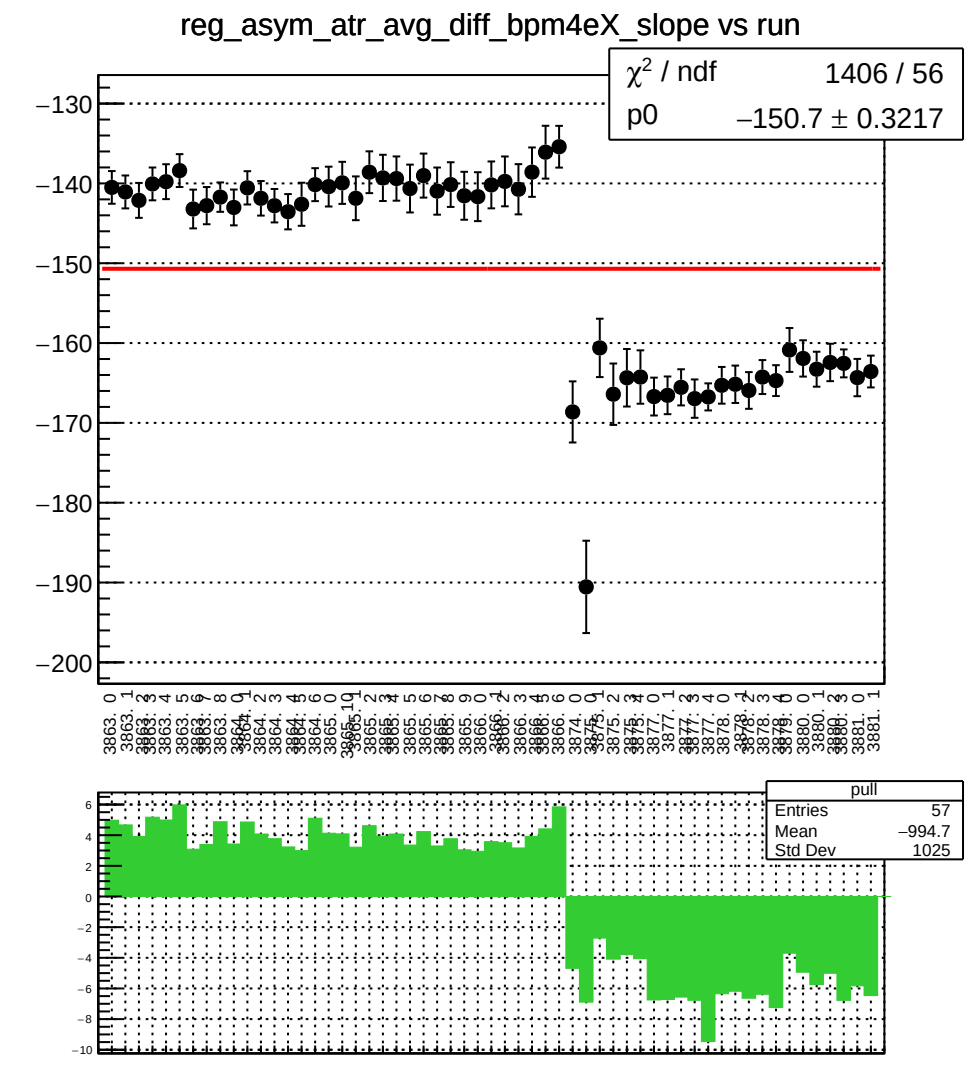

pull1D
Entries 57
Mean −0.7871
Std Dev 1.301

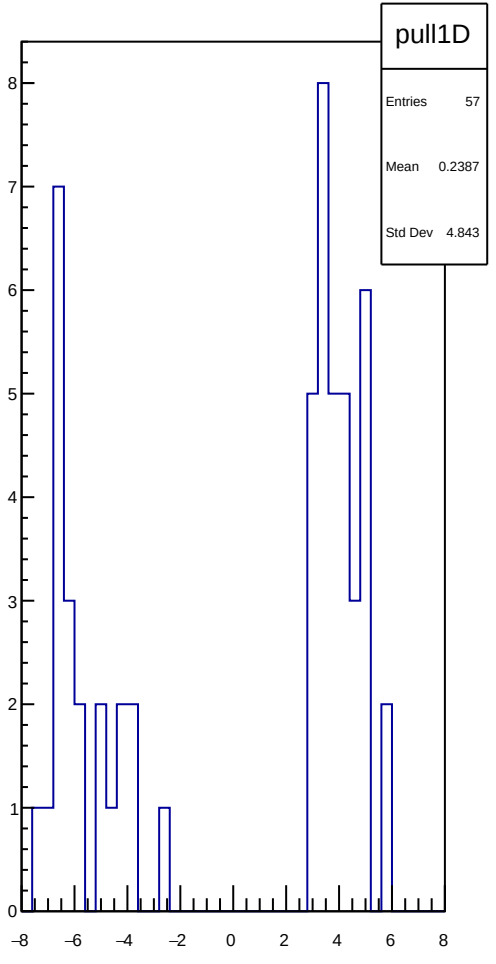

reg_asym_atl_dd_diff_bpm11X_slope vs run
χ² / ndf 158.4 / 56
p0 209.7 ± 0.4298
pull
Entries 57
Mean 378.2
Std Dev 348
pull1D
Entries 57
Mean −0.05467
Std Dev 1.666

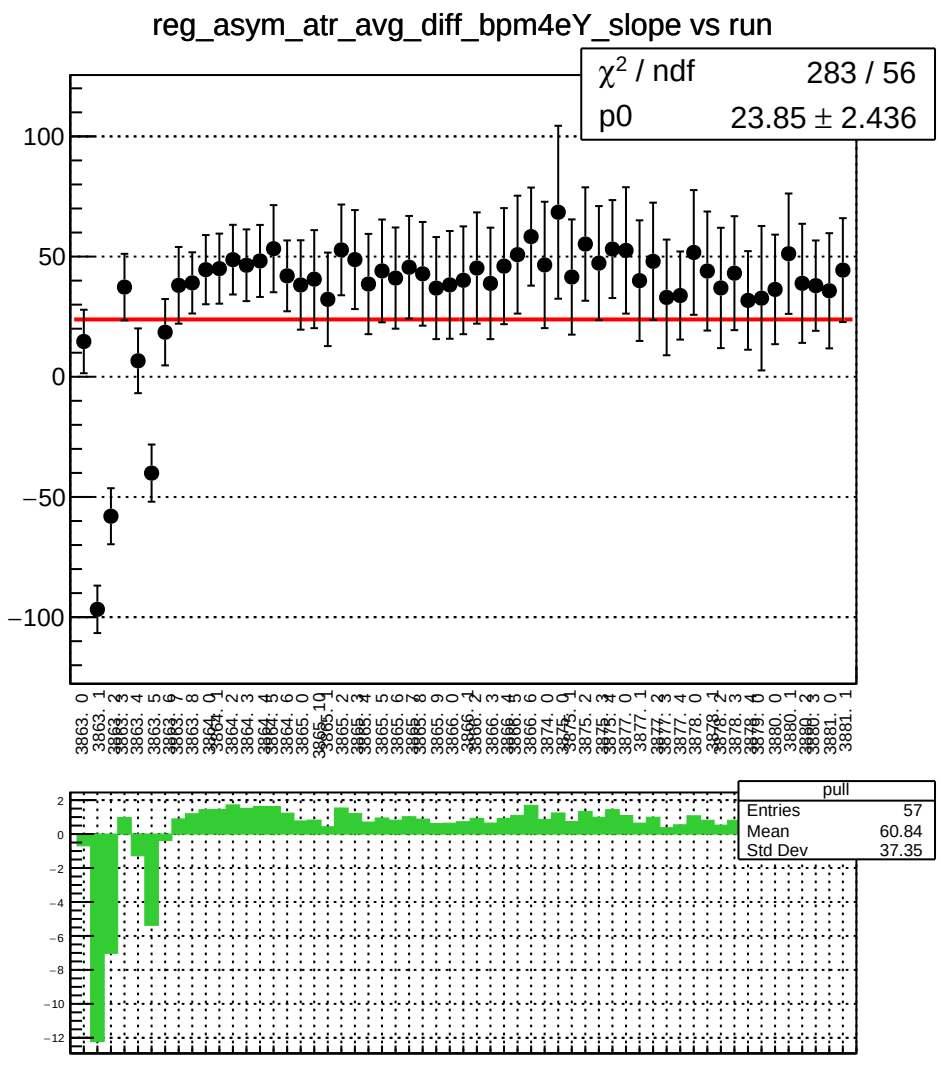

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.07 / 56
p0 16.34 ± 1.873
pull
Entries 57
Mean 79.67
Std Dev 55.63

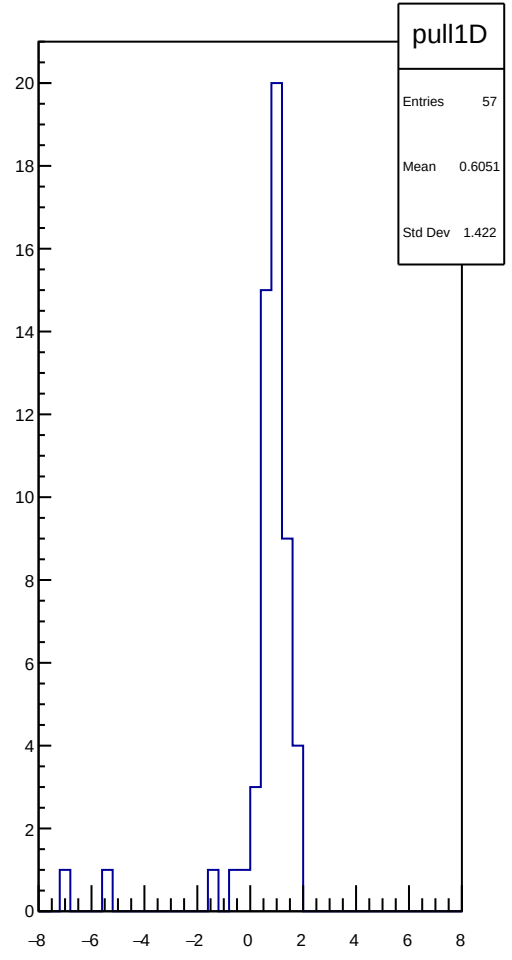

pull1D
Entries 57
Mean −0.03722
Std Dev 0.4586

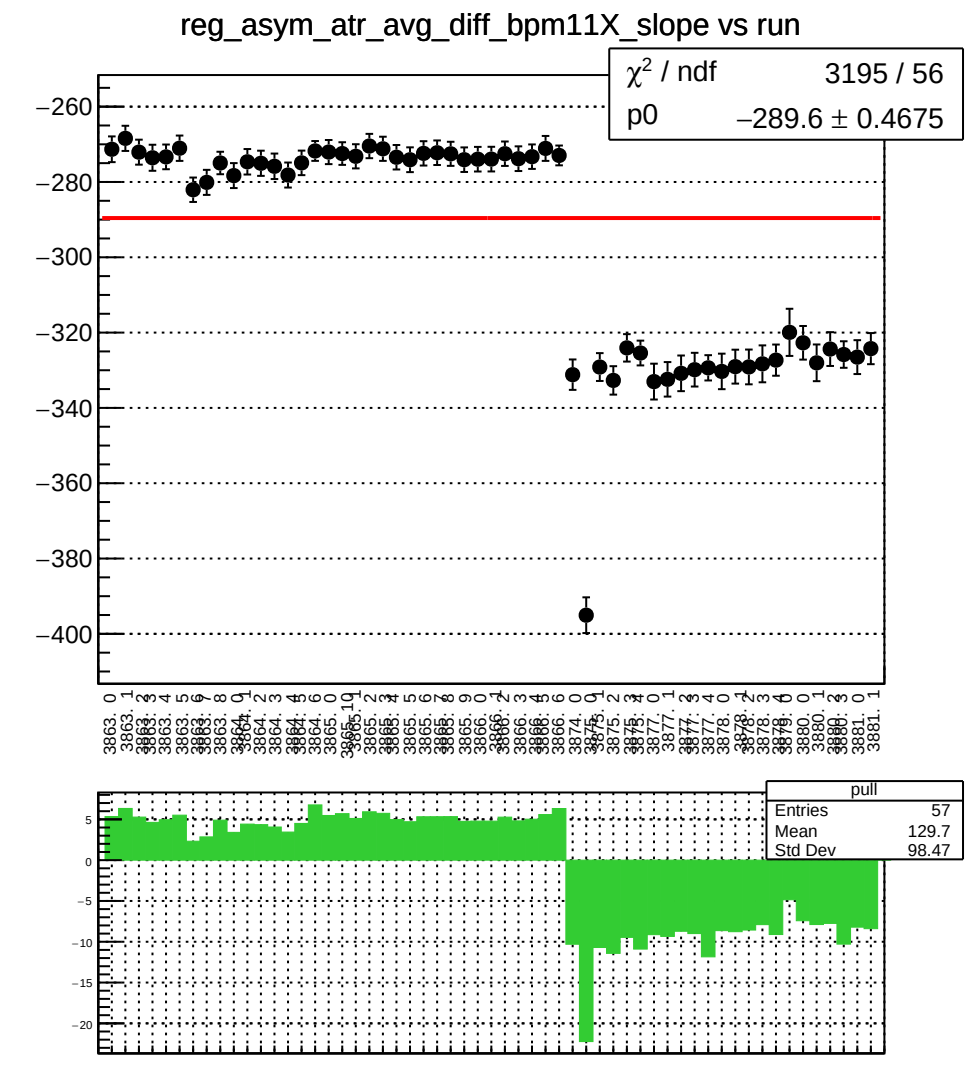

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 248.1 / 56
p0 23.49 ± 1.474
pull
Entries 57
Mean 53.3
Std Dev 33.61
pull1D
Entries 57
Mean −0.5202
Std Dev 1.35

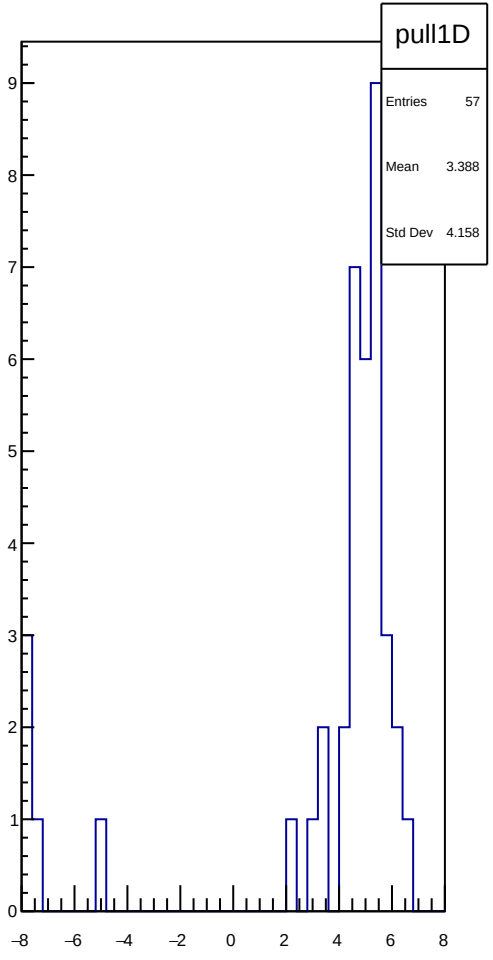

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 1406 / 56
p0 −150.7 ± 0.3217
pull
Entries 57
Mean −994.7
Std Dev 1025

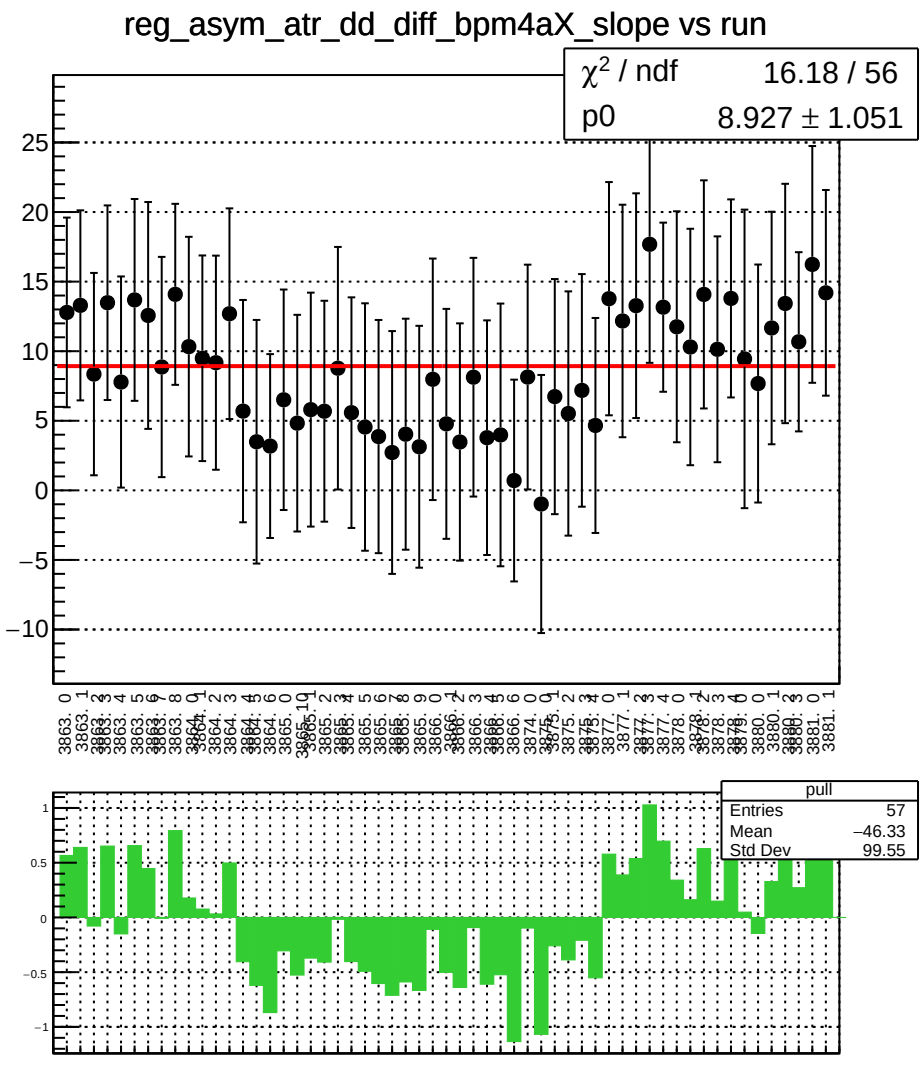

pull1D
Entries 57
Mean 0.2387
Std Dev 4.843

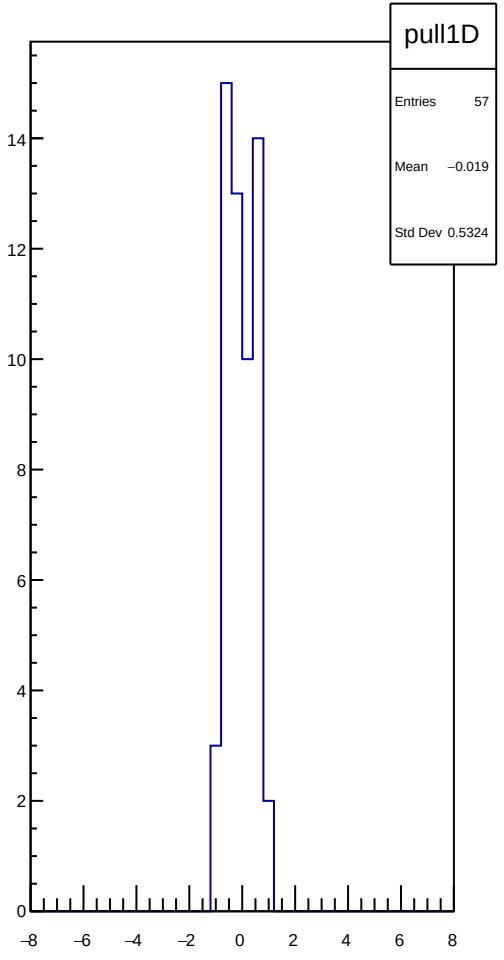

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 283 / 56
p0 23.85 ± 2.436
pull
Entries 57
Mean 60.84
Std Dev 37.35

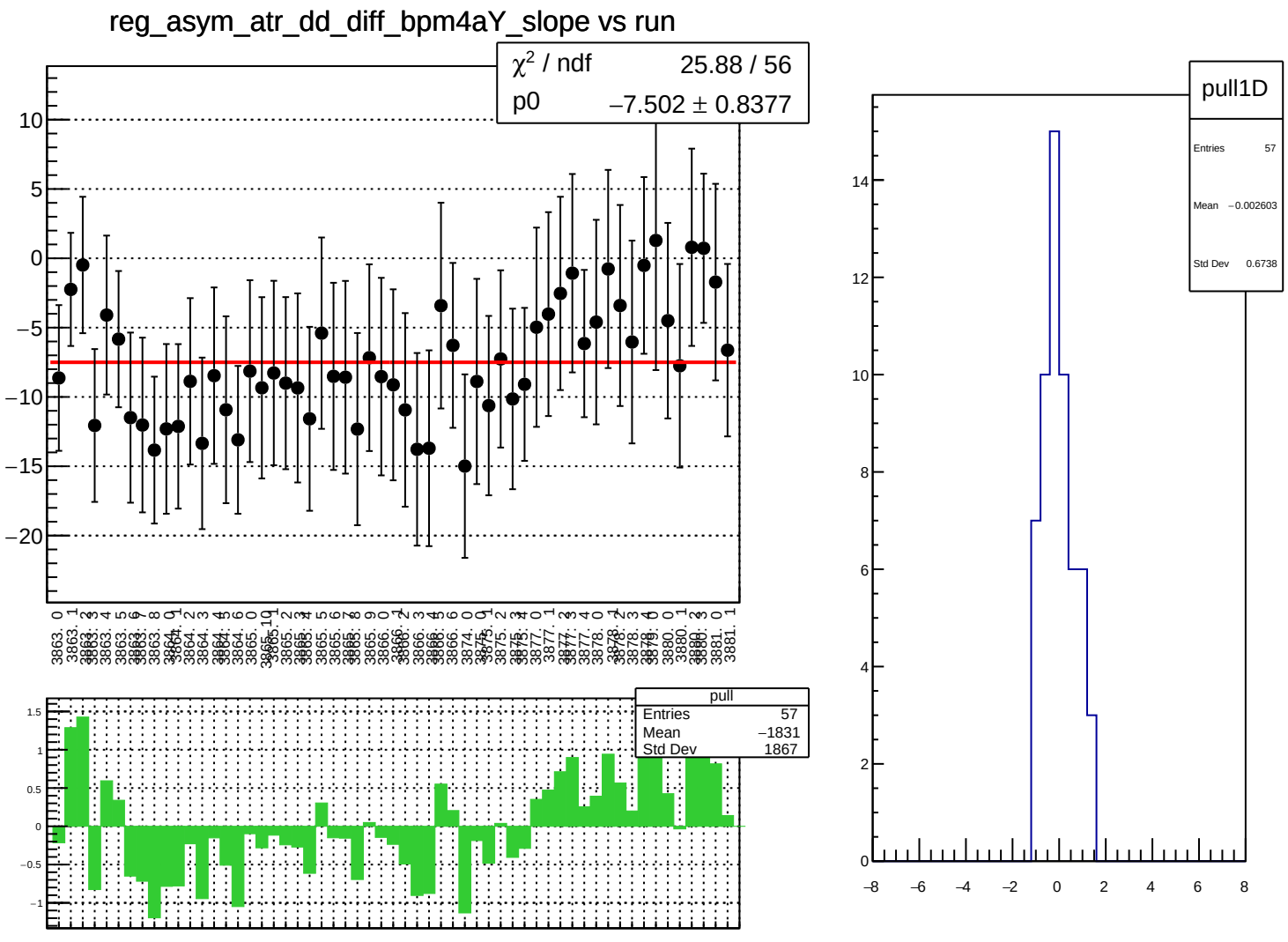

pull1D
Entries 57
Mean 0.6051
Std Dev 1.422

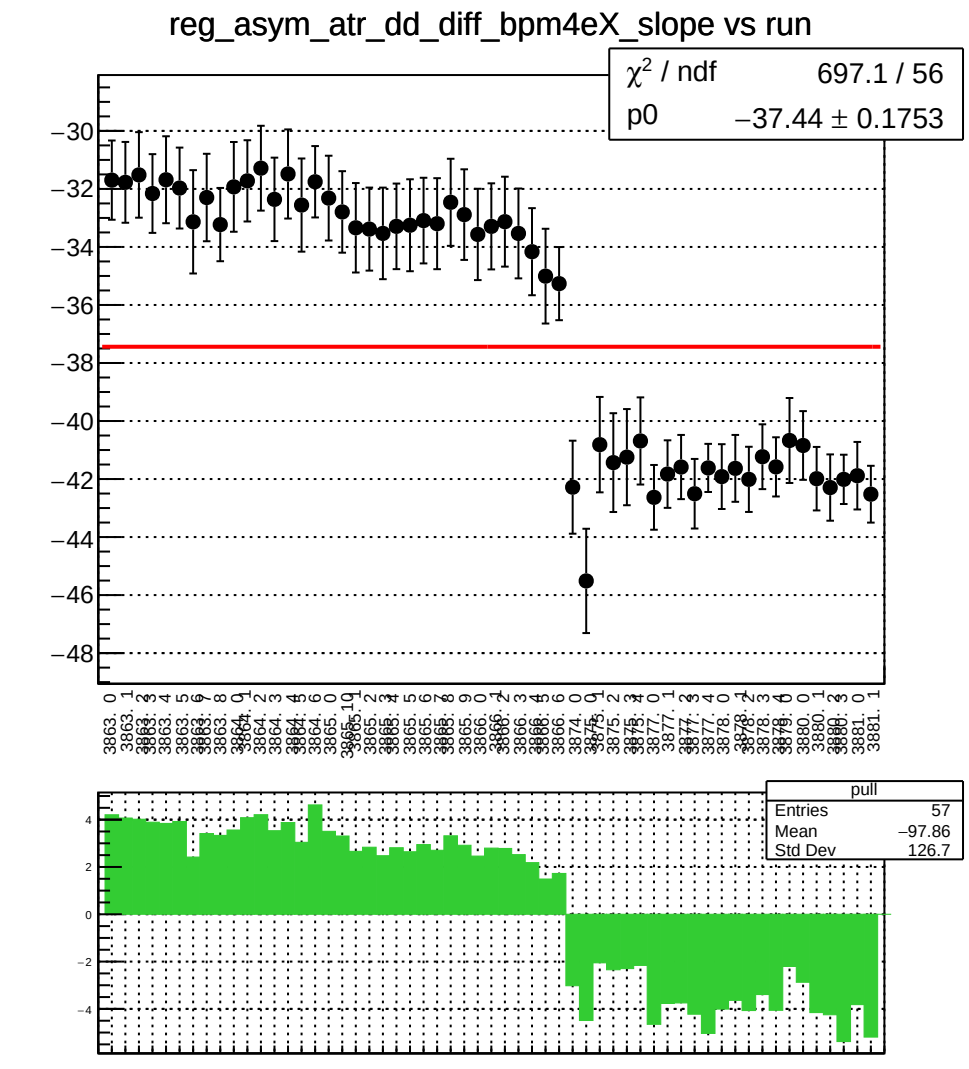

reg_asym_atr_avg_diff_bpm11X_slope vs run
χ² / ndf 3195 / 56
p0 −289.6 ± 0.4675
pull
Entries 57
Mean 129.7
Std Dev 98.47

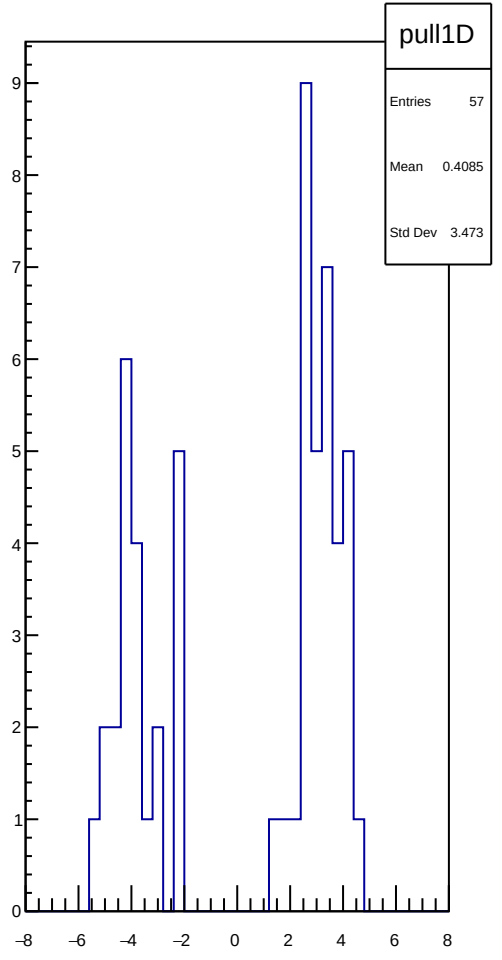

pull1D
Entries 57
Mean 3.388
Std Dev 4.158

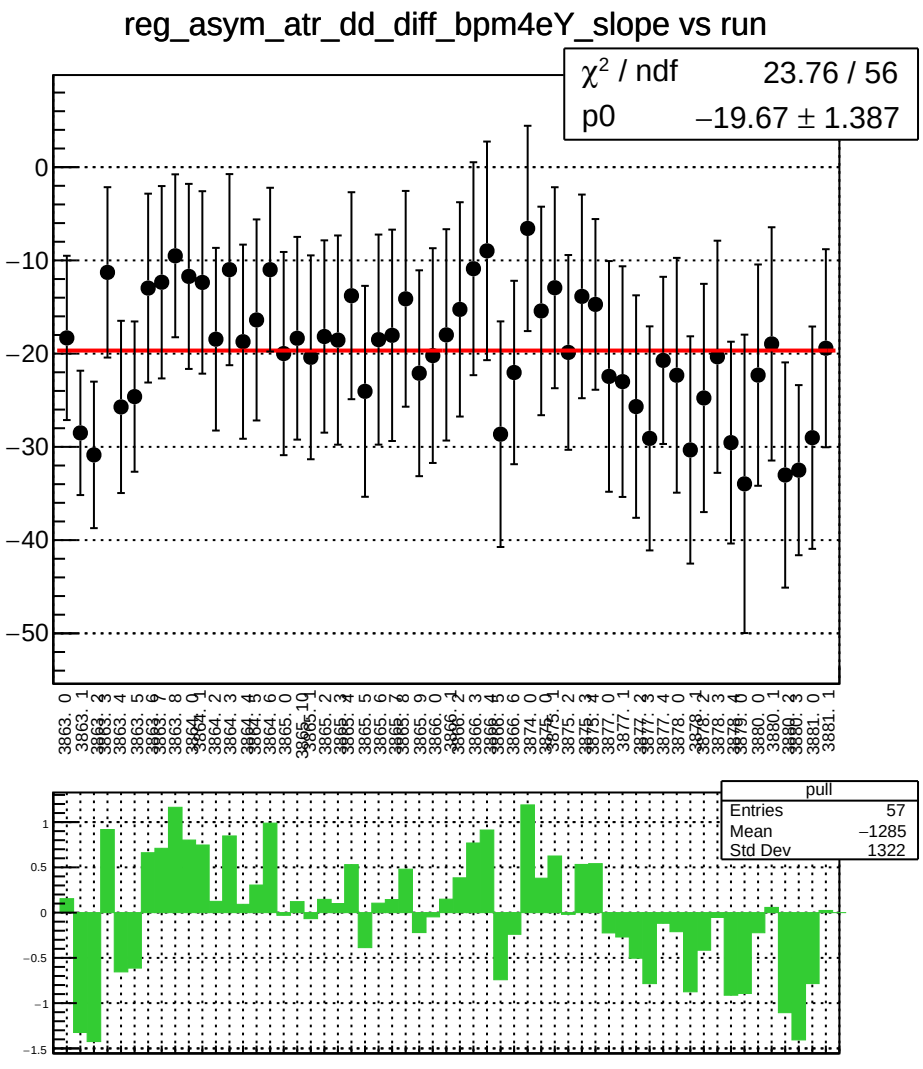

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 16.18 / 56
p0 8.927 ± 1.051
pull
Entries 57
Mean −46.33
Std Dev 99.55

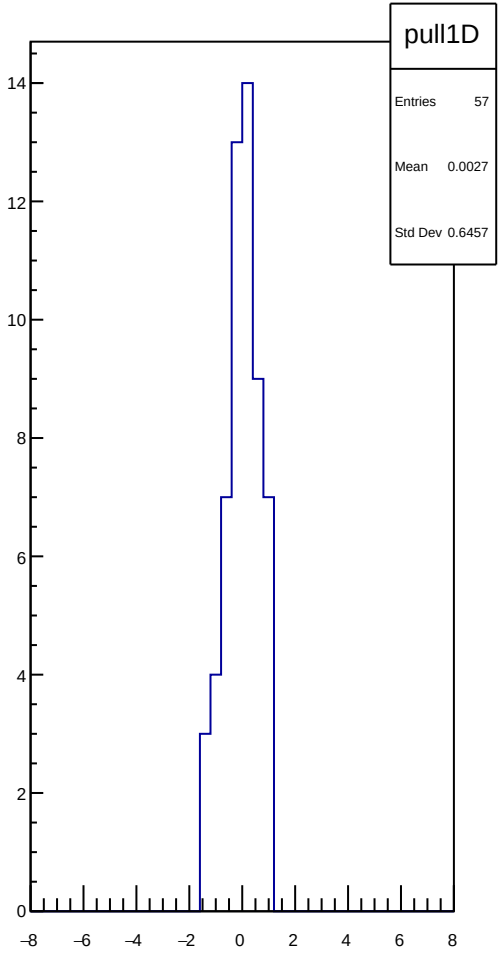

pull1D
Entries 57
Mean −0.019
Std Dev 0.5324

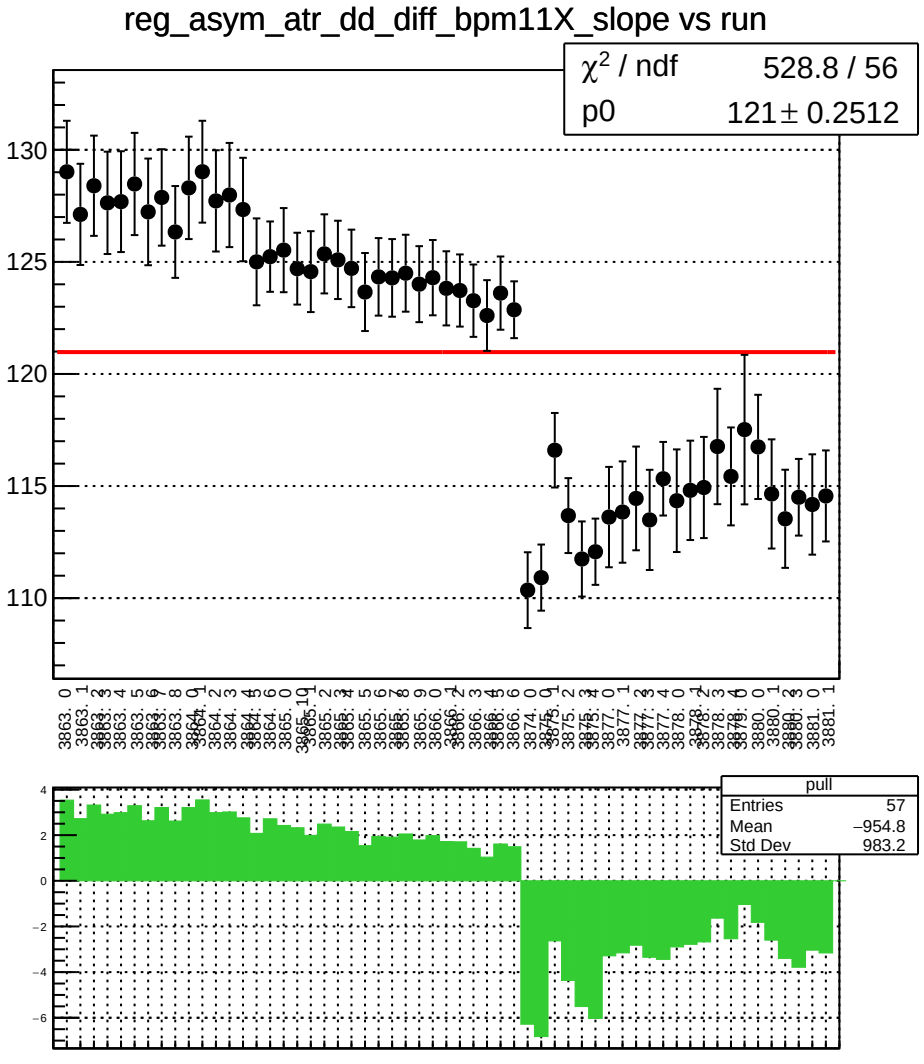

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.88 / 56
p0 −7.502 ± 0.8377
pull
Entries 57
Mean −1831
Std Dev 1867
pull1D
Entries 57
Mean −0.002603
Std Dev 0.6738

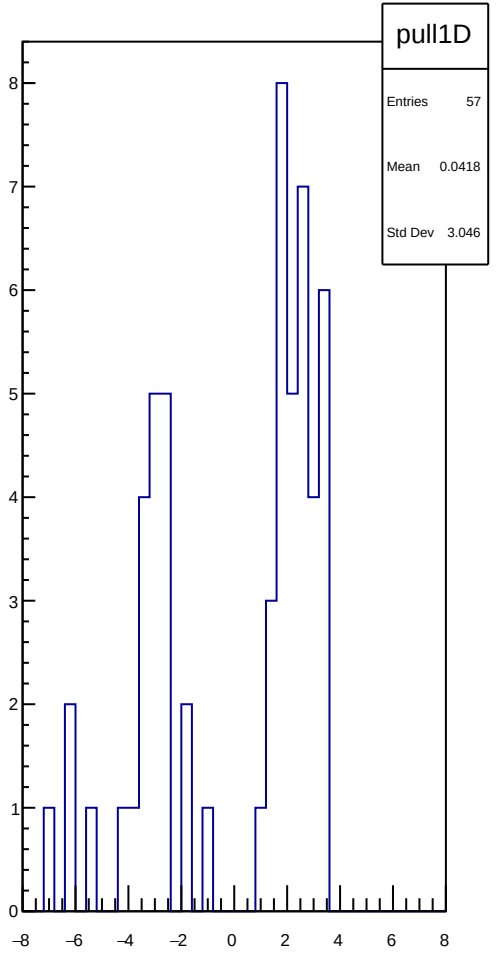

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 697.1 / 56
p0 −37.44 ± 0.1753
pull
Entries 57
Mean −97.86
Std Dev 126.7

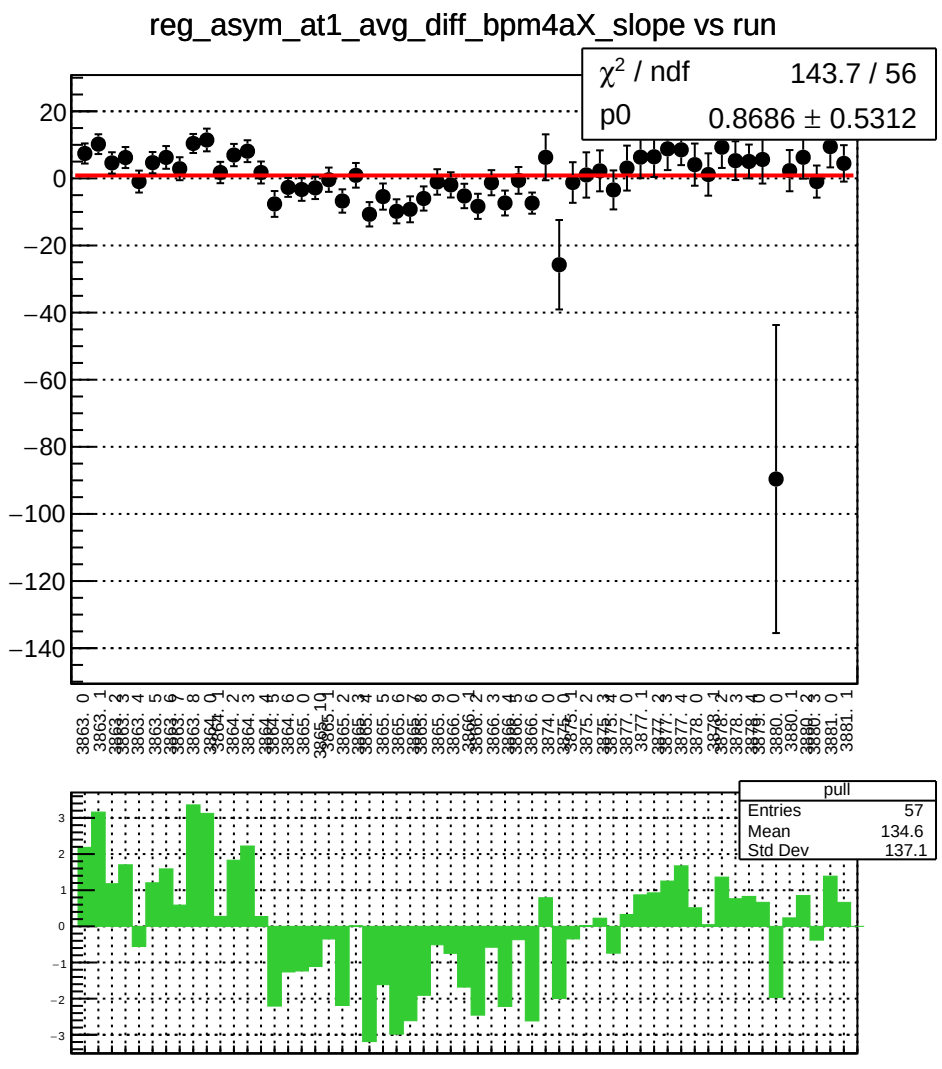

pull1D
Entries 57
Mean 0.4085
Std Dev 3.473

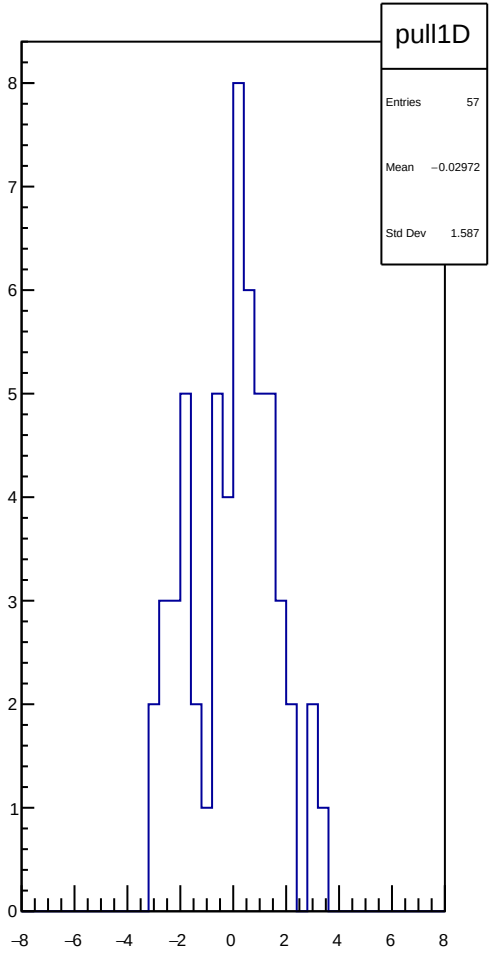

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.76 / 56
p0 −19.67 ± 1.387
pull
Entries 57
Mean −1285
Std Dev 1322

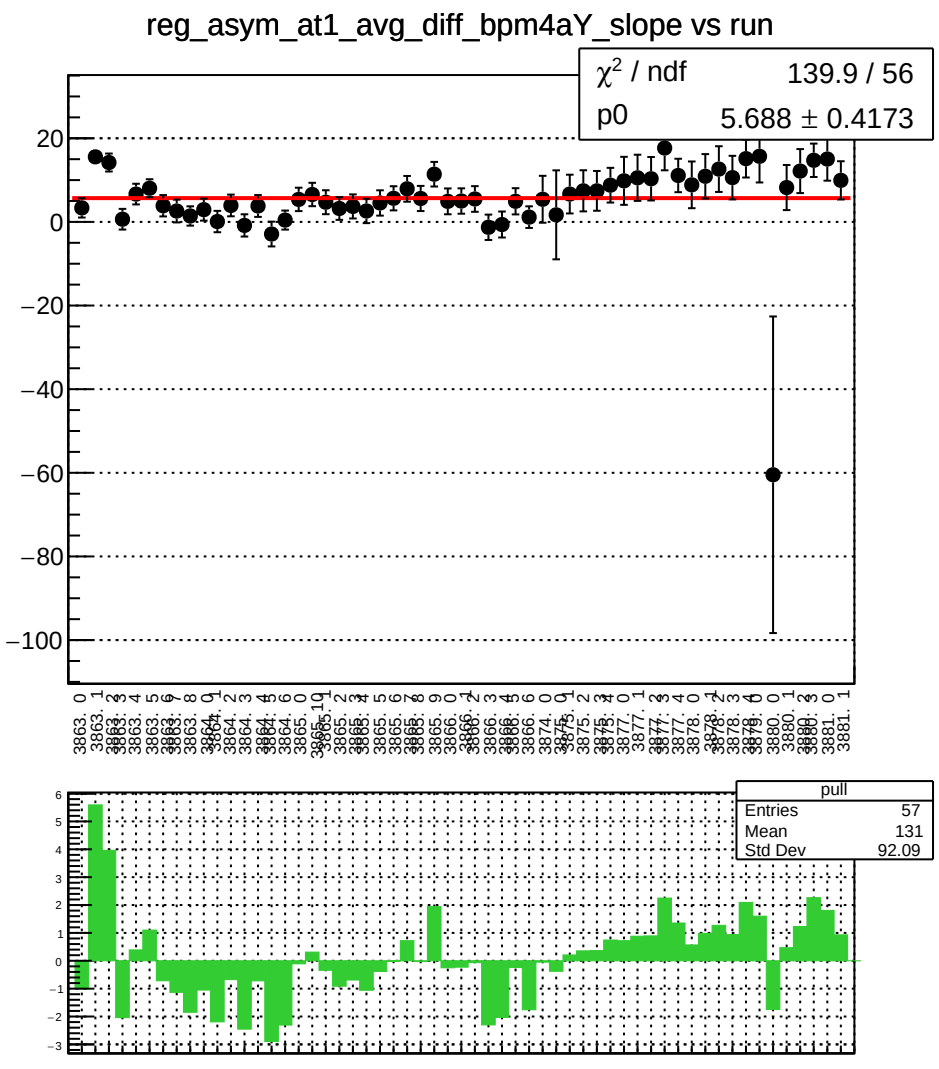

pull1D
Entries 57
Mean 0.0027
Std Dev 0.6457

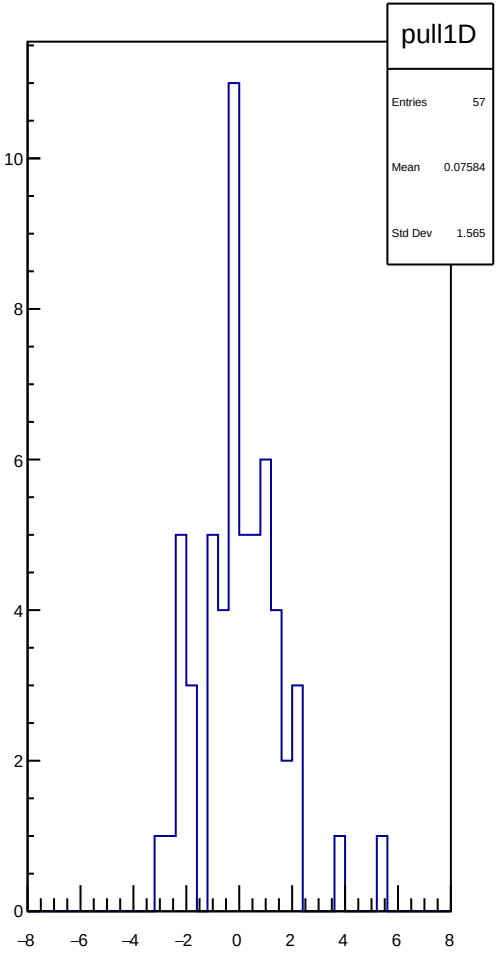

reg_asym_atr_dd_diff_bpm11X_slope vs run
χ² / ndf 528.8 / 56
p0 121 ± 0.2512
130
125
120
115
110
pull
Entries 57
Mean −954.8
Std Dev 983.2
4
2
0
−2
−4
−6

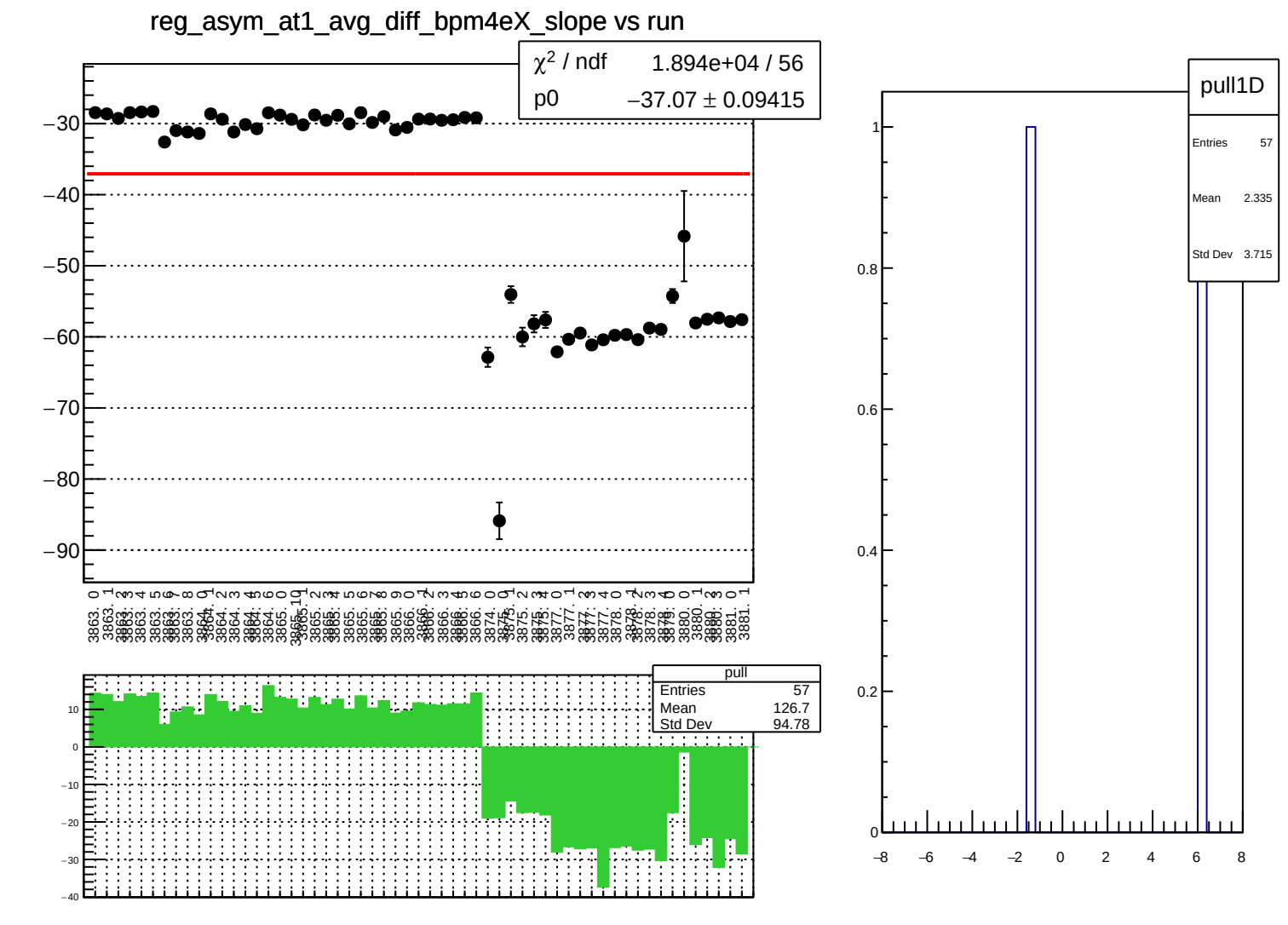

pull1D
Entries 57
Mean 0.0418
Std Dev 3.046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

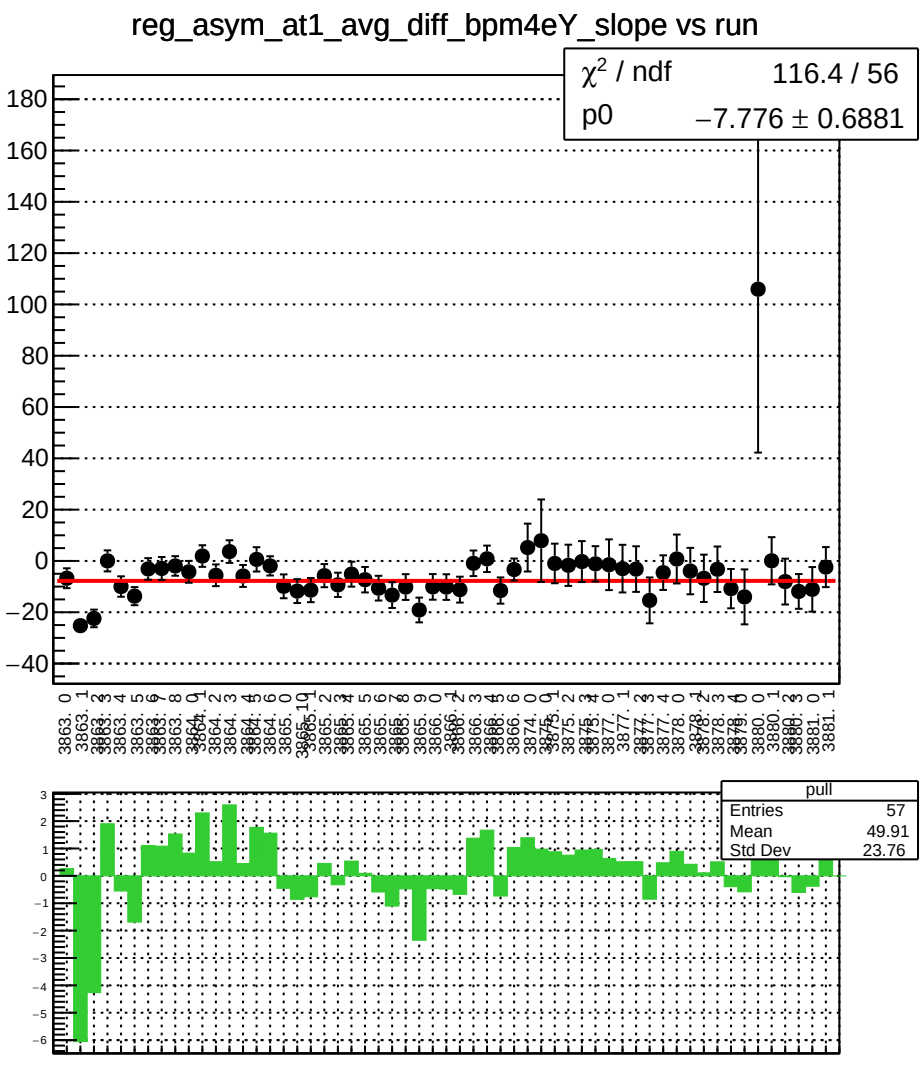

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 143.7 / 56
p0 0.8686 ± 0.5312
pull
Entries 57
Mean 134.6
Std Dev 137.1

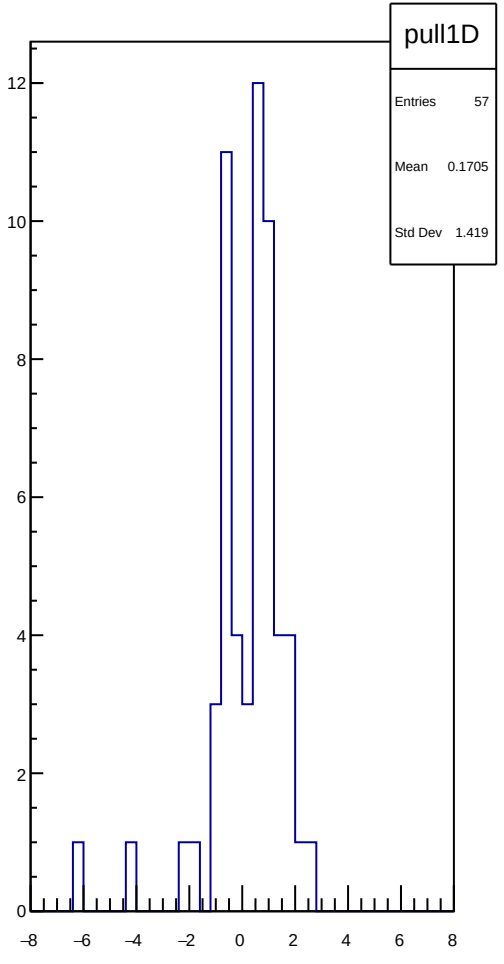

pull1D
Entries 57
Mean −0.02972
Std Dev 1.587

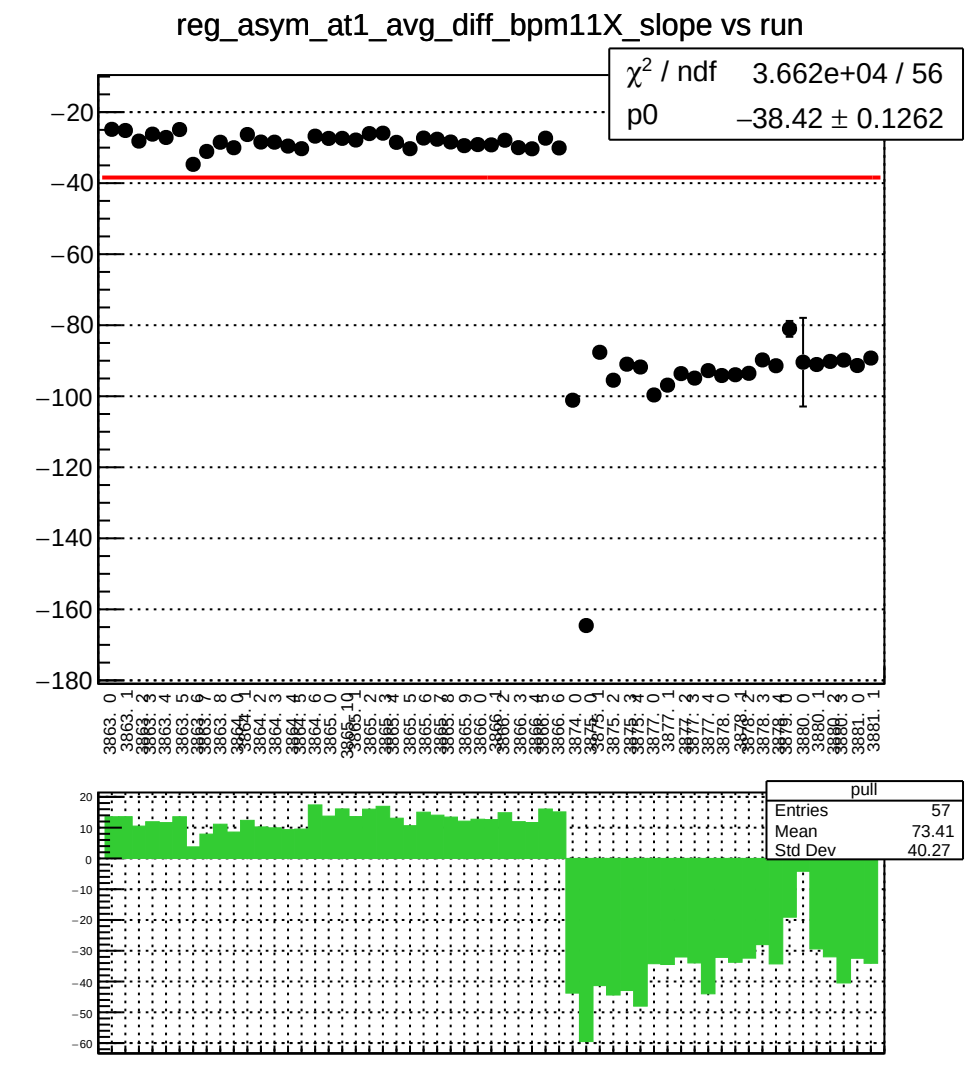

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 139.9 / 56
p0 5.688 ± 0.4173
pull
Entries 57
Mean 131
Std Dev 92.09

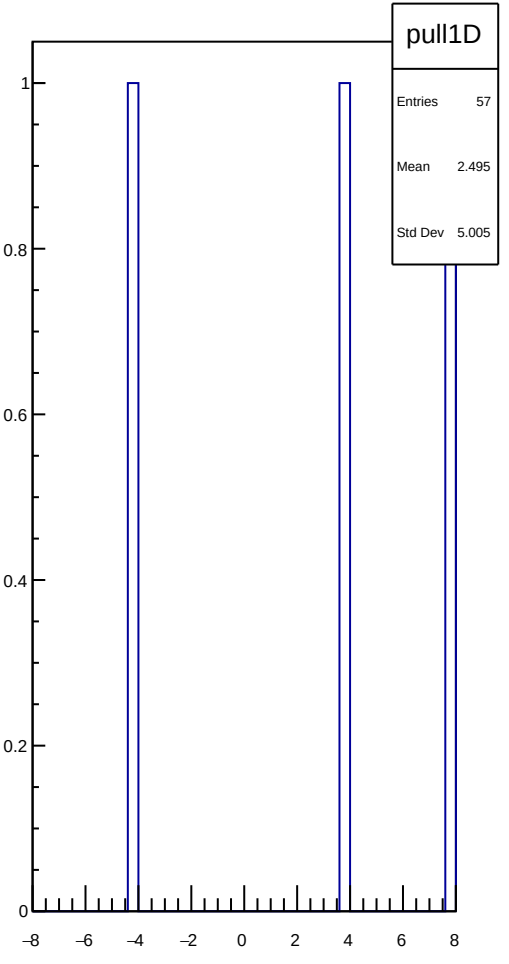

pull1D
Entries 57
Mean 0.07584
Std Dev 1.565

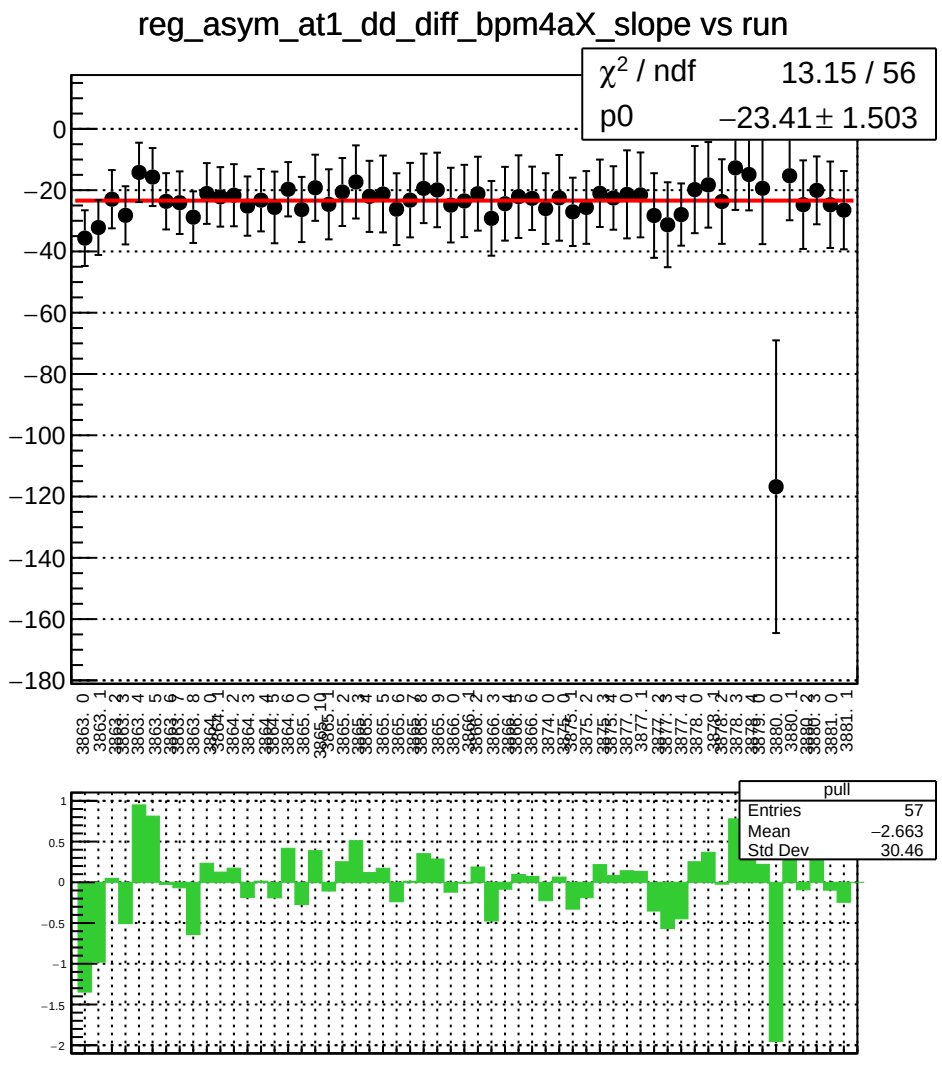

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.894e+04 / 56
p0 −37.07 ± 0.09415
pull
Entries 57
Mean 126.7
Std Dev 94.78
pull1D
Entries 57
Mean 2.335
Std Dev 3.715

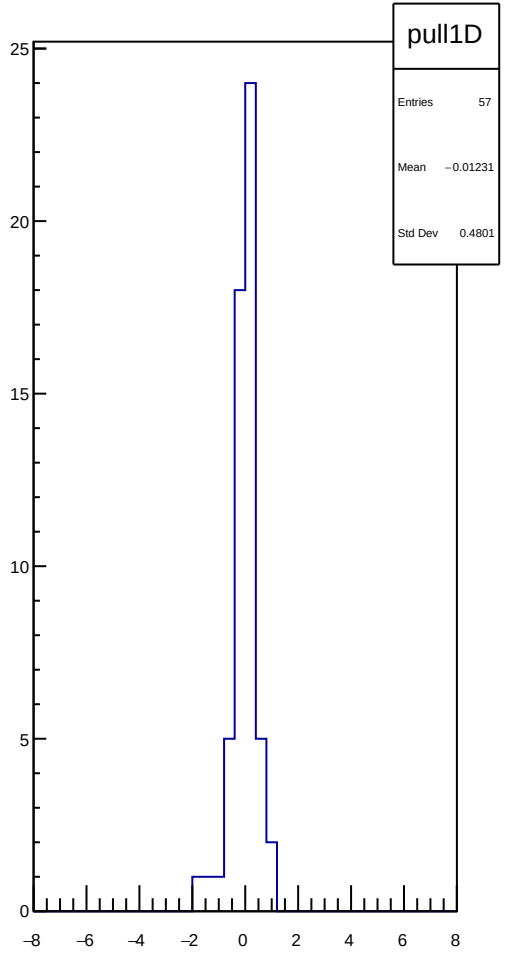

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 116.4 / 56
p0 −7.776 ± 0.6881
pull
Entries 57
Mean 49.91
Std Dev 23.76

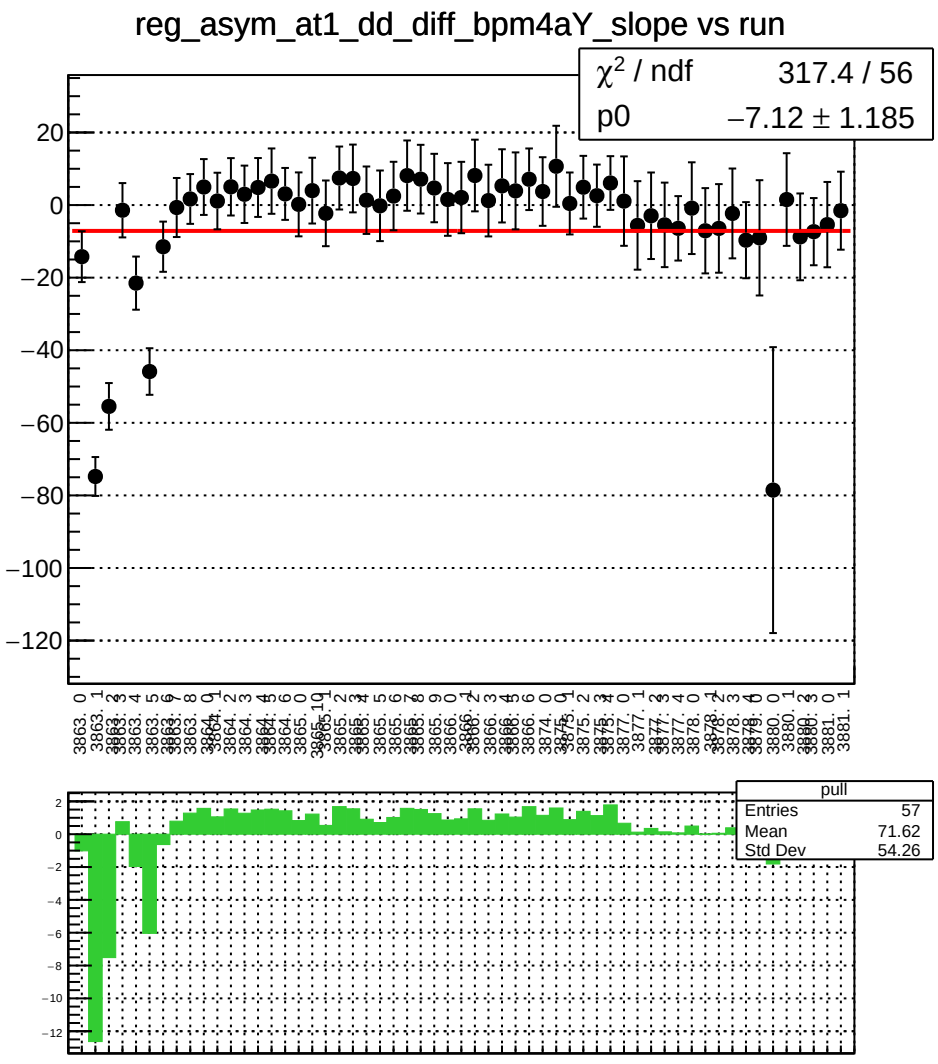

pull1D
Entries 57
Mean 0.1705
Std Dev 1.419

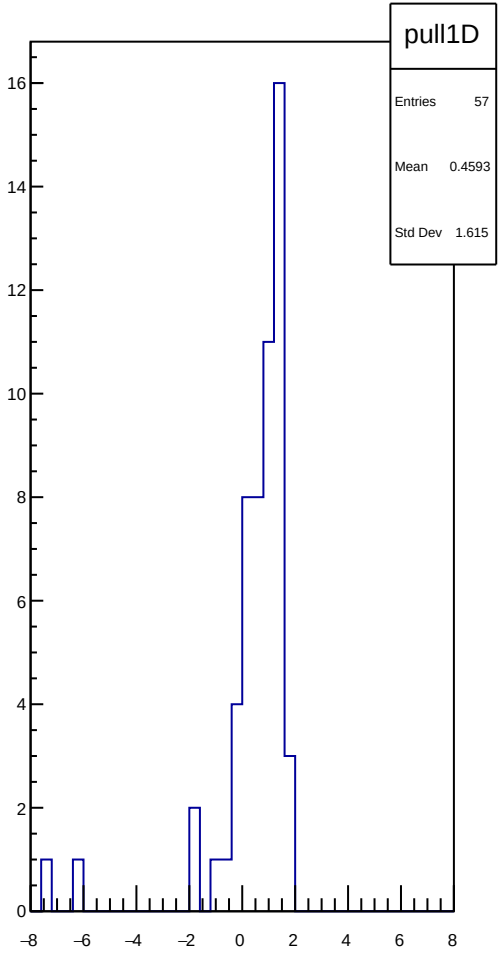

reg_asym_at1_avg_diff_bpm11X_slope vs run
χ² / ndf 3.662e+04 / 56
p0 −38.42 ± 0.1262
pull
Entries 57
Mean 73.41
Std Dev 40.27

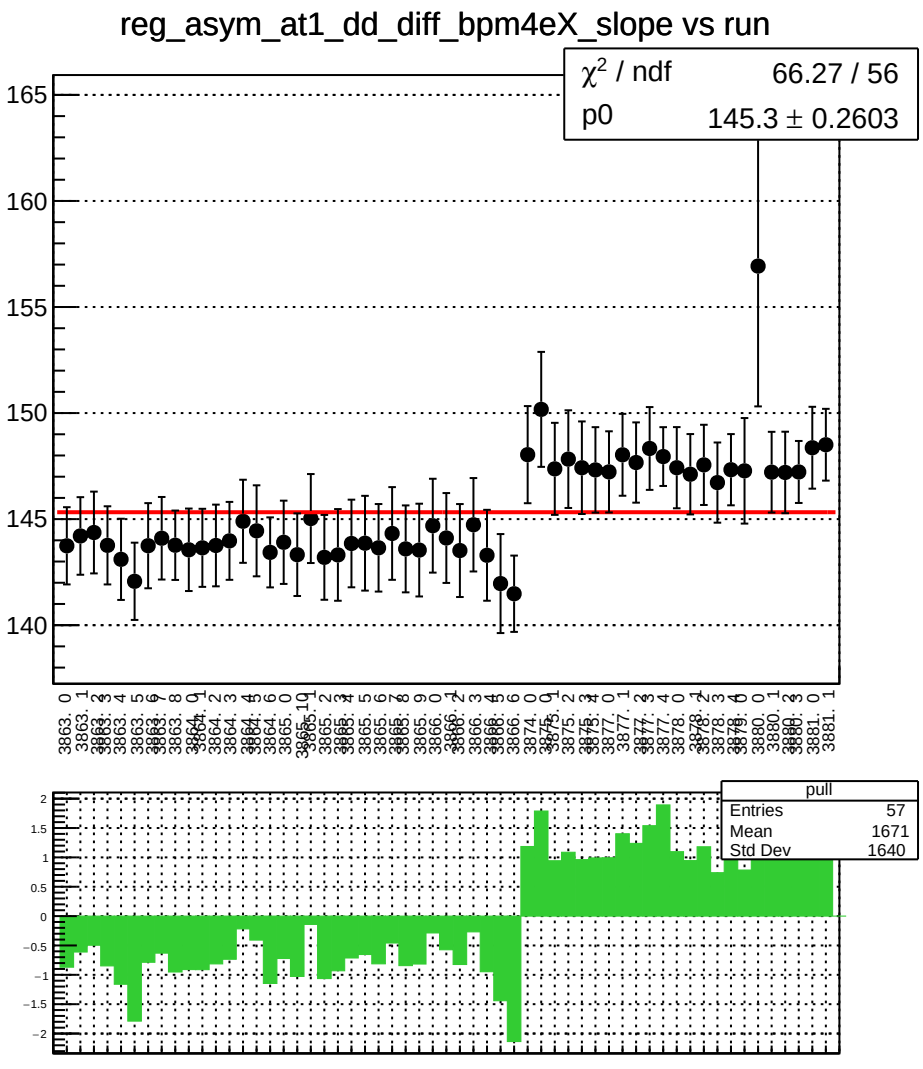

pull1D
Entries 57
Mean 2.495
Std Dev 5.005

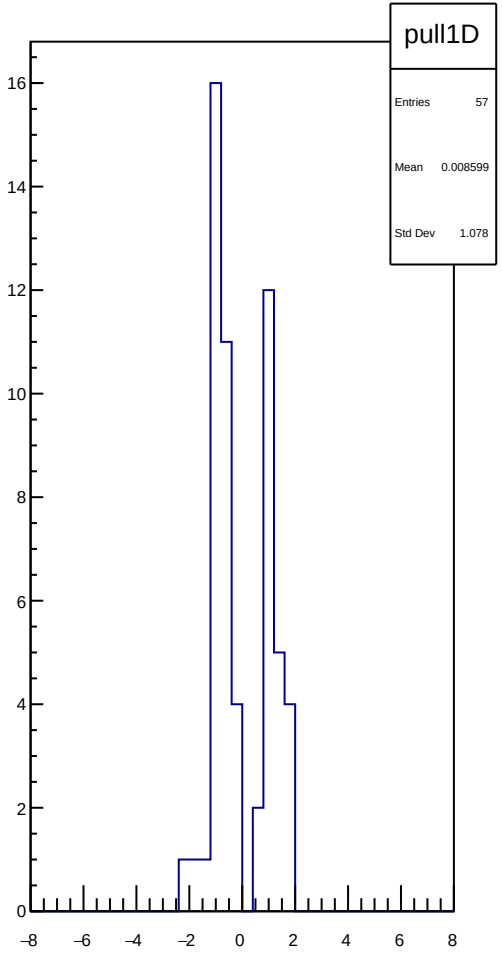

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 13.15 / 56
p0 −23.41 ± 1.503
pull
Entries 57
Mean −2.663
Std Dev 30.46

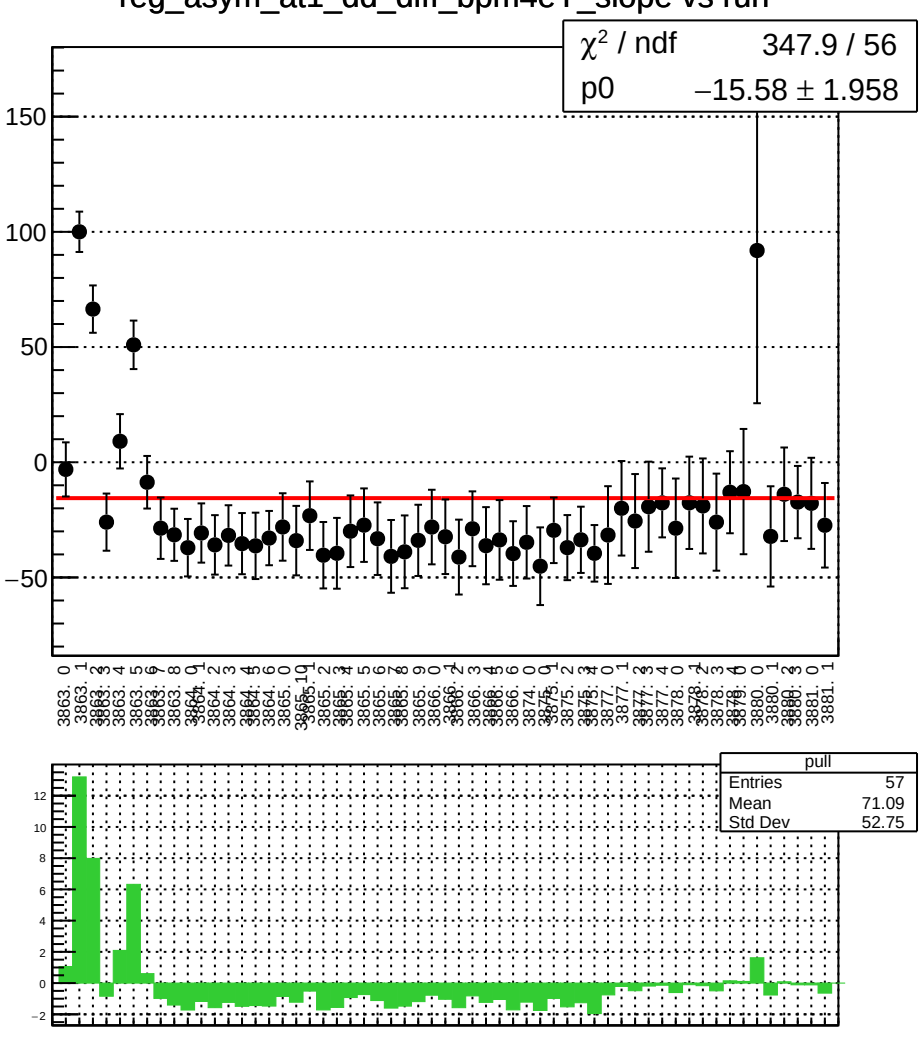

pull1D
Entries 57
Mean −0.01231
Std Dev 0.4801

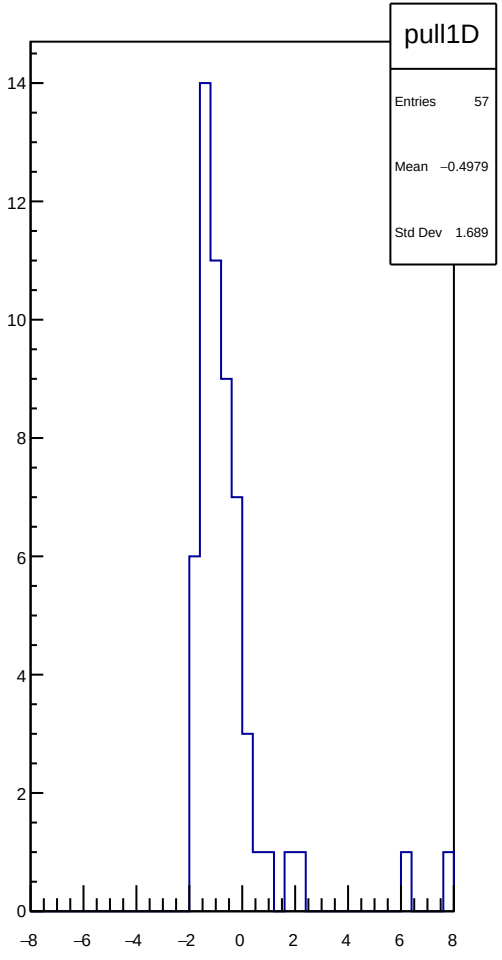

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 317.4 / 56
p0 −7.12 ± 1.185
pull
Entries 57
Mean 71.62
Std Dev 54.26

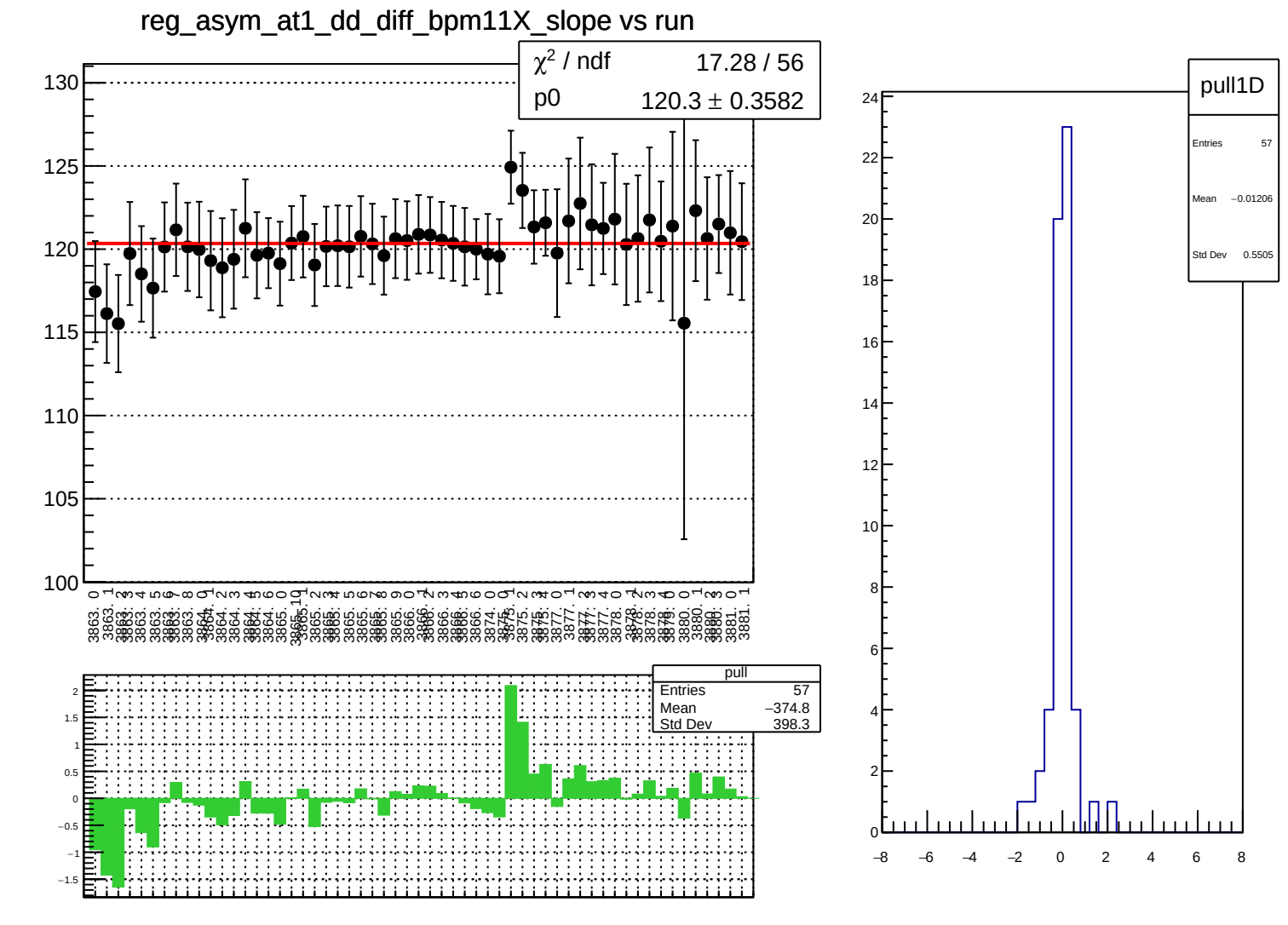

pull1D
Entries 57
Mean 0.4593
Std Dev 1.615

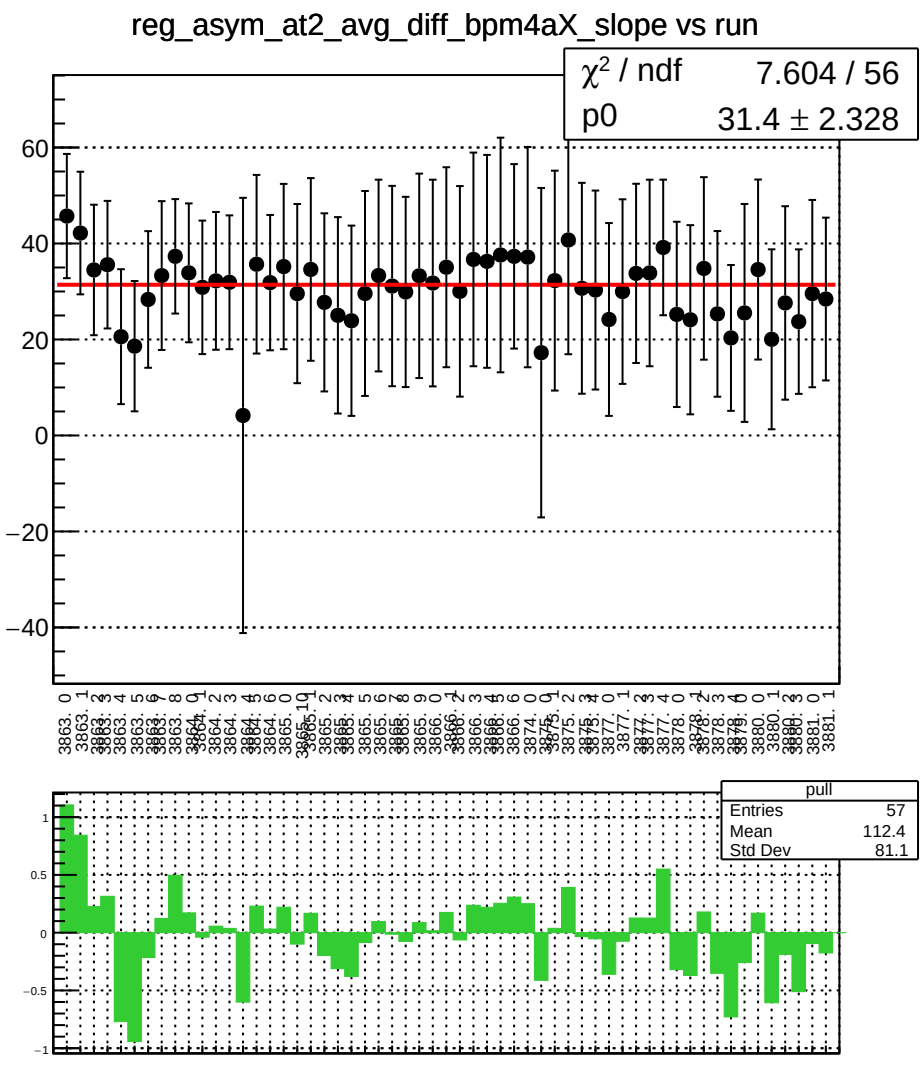

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.27 / 56
p0 145.3 ± 0.2603
pull
Entries 57
Mean 1671
Std Dev 1640

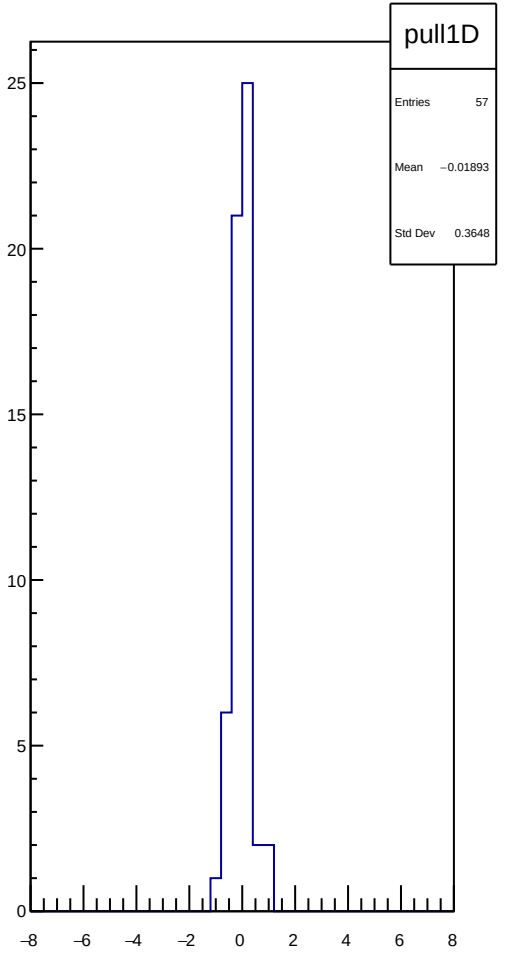

pull1D
Entries 57
Mean 0.008599
Std Dev 1.078

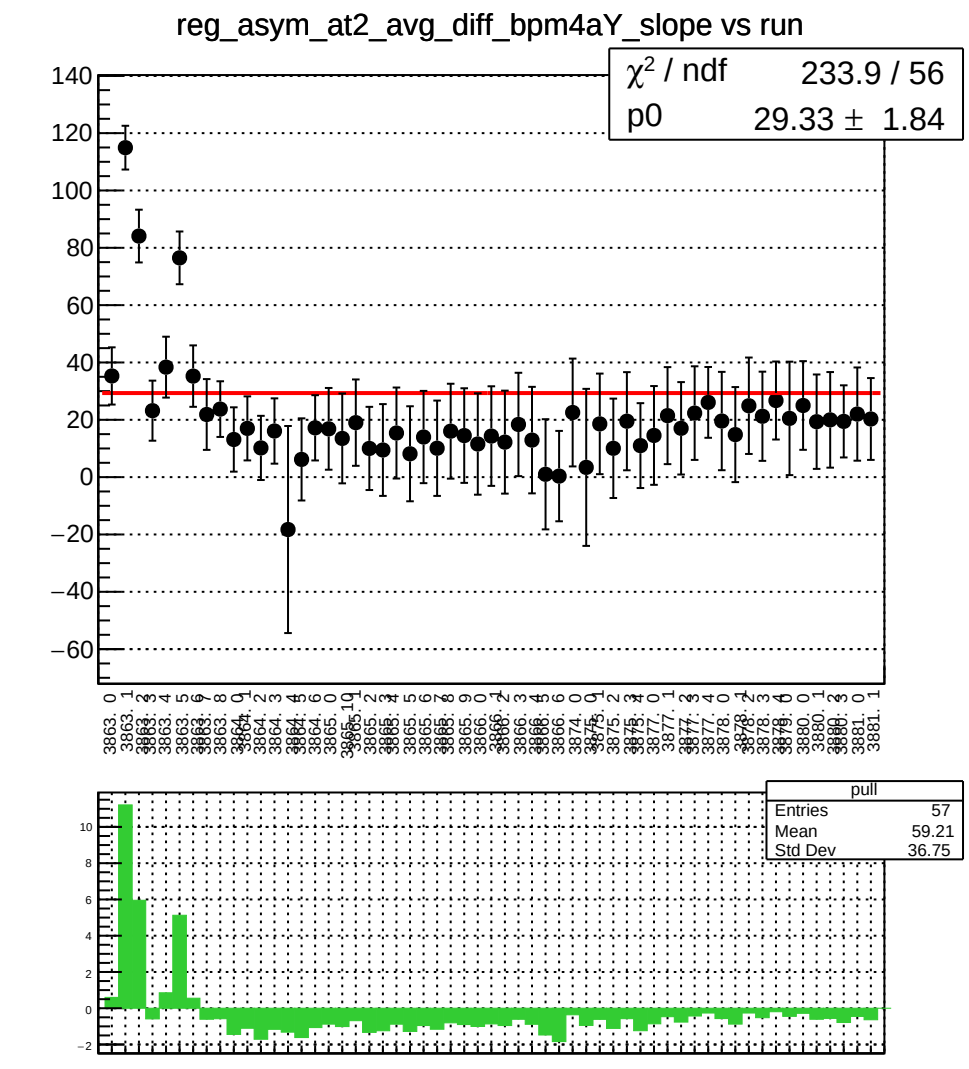

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 347.9 / 56
p0 −15.58 ± 1.958
150
100
50
0
−50
pull
Entries 57
Mean 71.09
Std Dev 52.75
12
10
8
6
4
2
0
−2

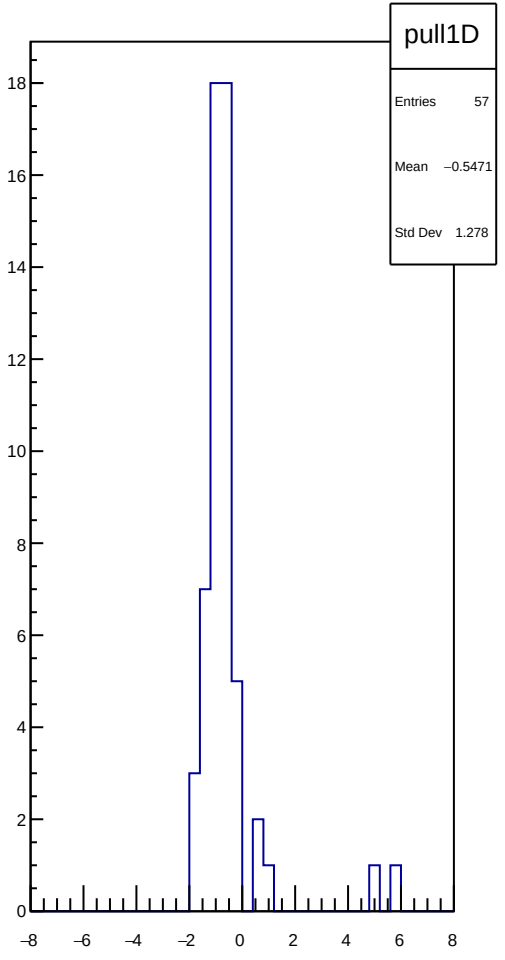

pull1D
Entries 57
Mean −0.4979
Std Dev 1.689
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

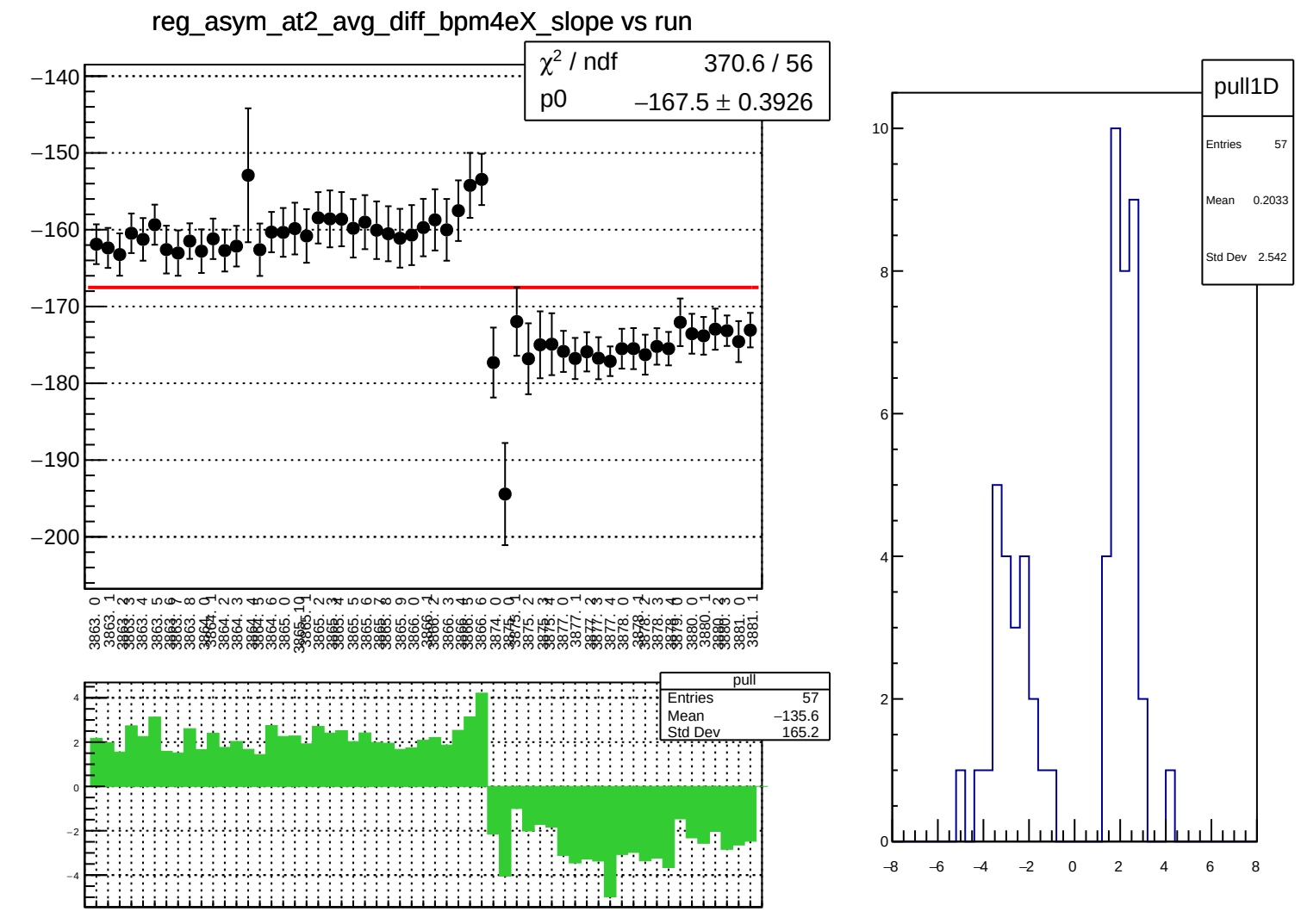

reg_asym_at1_dd_diff_bpm11X_slope vs run
χ² / ndf 17.28 / 56
p0 120.3 ± 0.3582
pull
Entries 57
Mean −374.8
Std Dev 398.3
pull1D
Entries 57
Mean −0.01206
Std Dev 0.5505

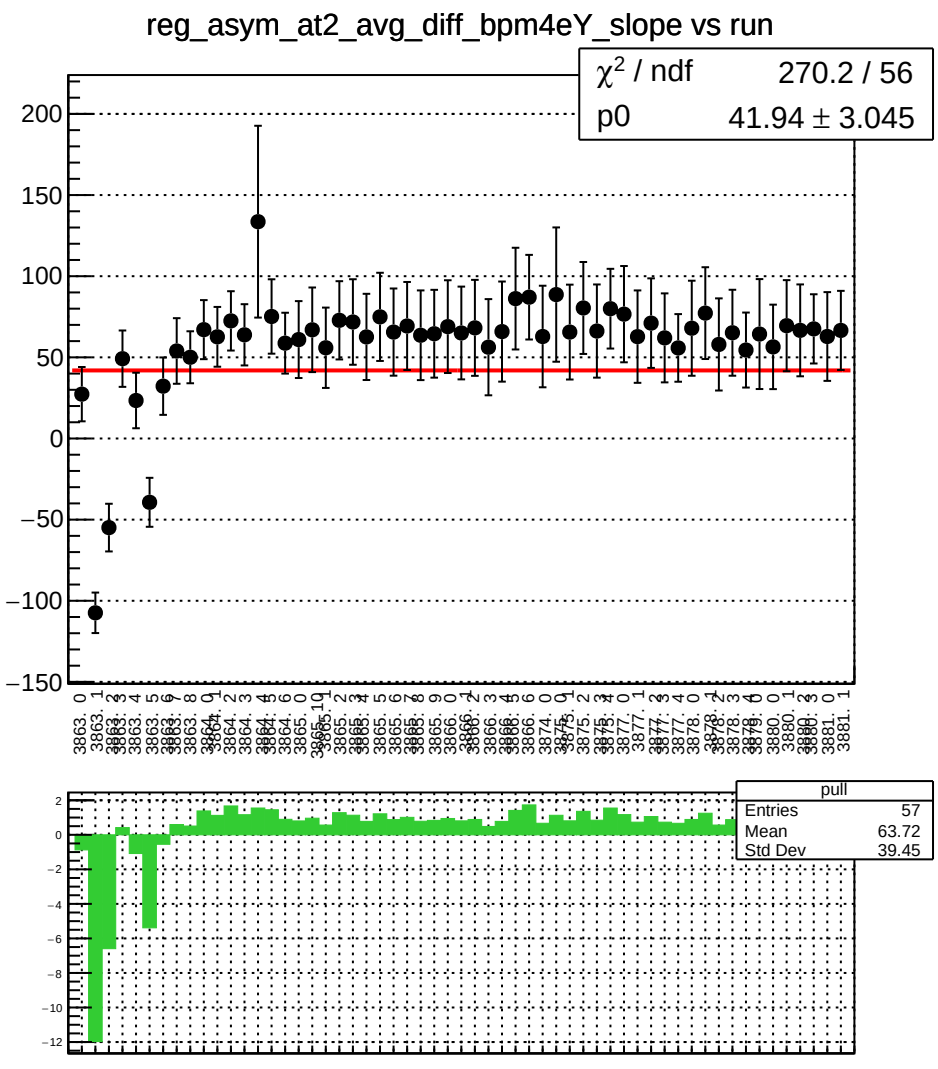

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 7.604 / 56
p0 31.4 ± 2.328
pull
Entries 57
Mean 112.4
Std Dev 81.1

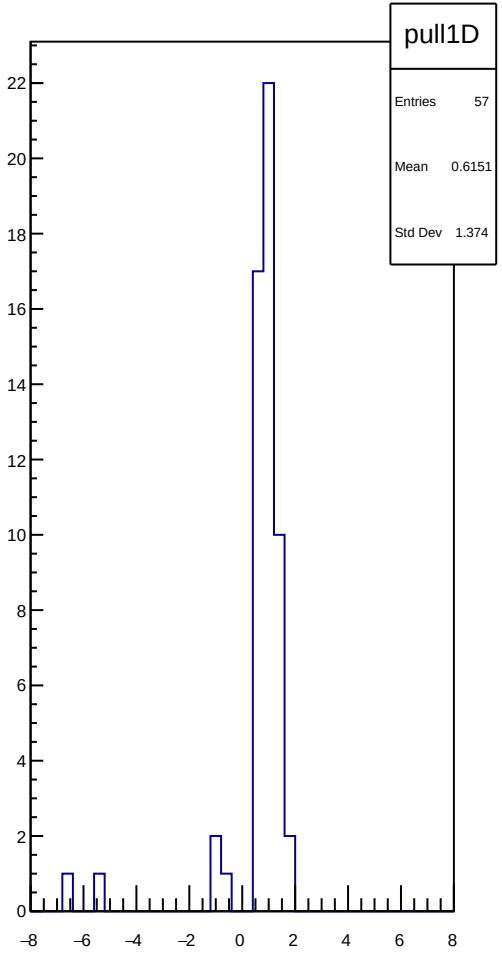

pull1D
Entries 57
Mean −0.01893
Std Dev 0.3648

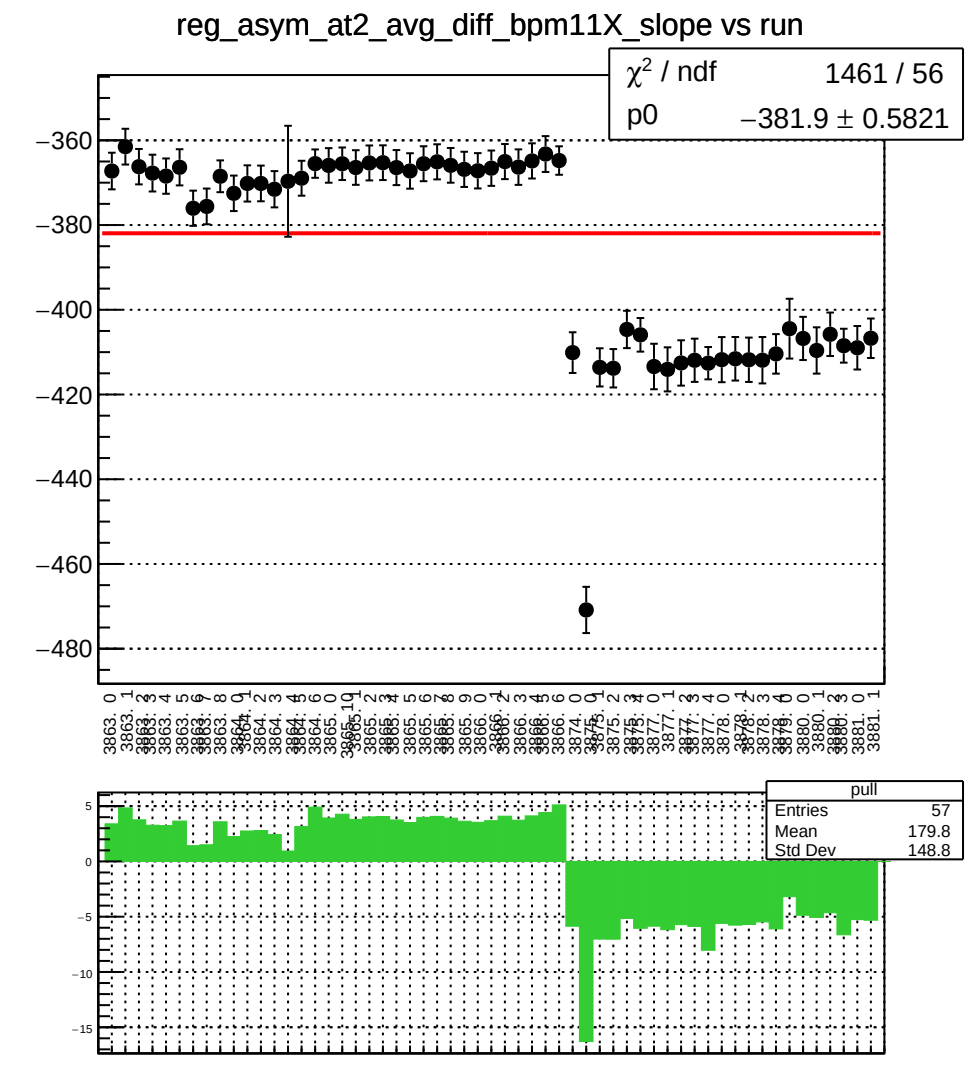

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 233.9 / 56
p0 29.33 ± 1.84
pull
Entries 57
Mean 59.21
Std Dev 36.75

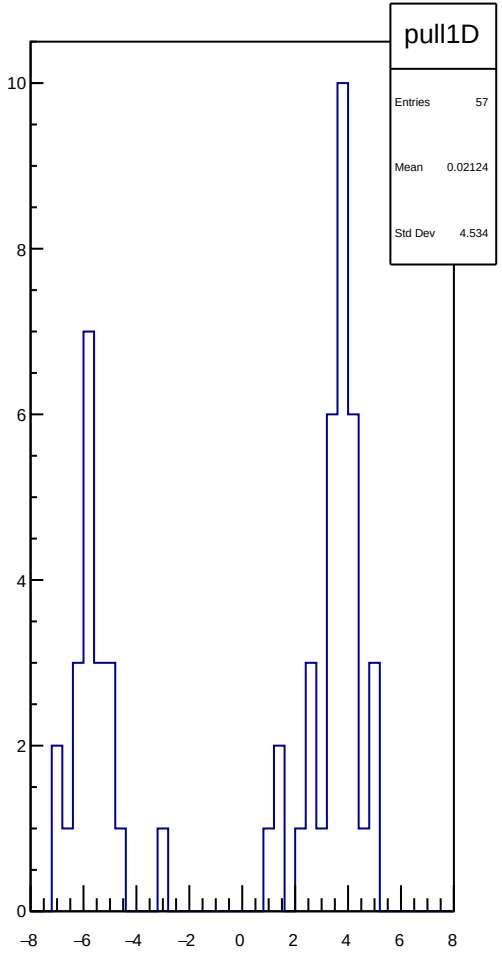

pull1D
Entries 57
Mean −0.5471
Std Dev 1.278

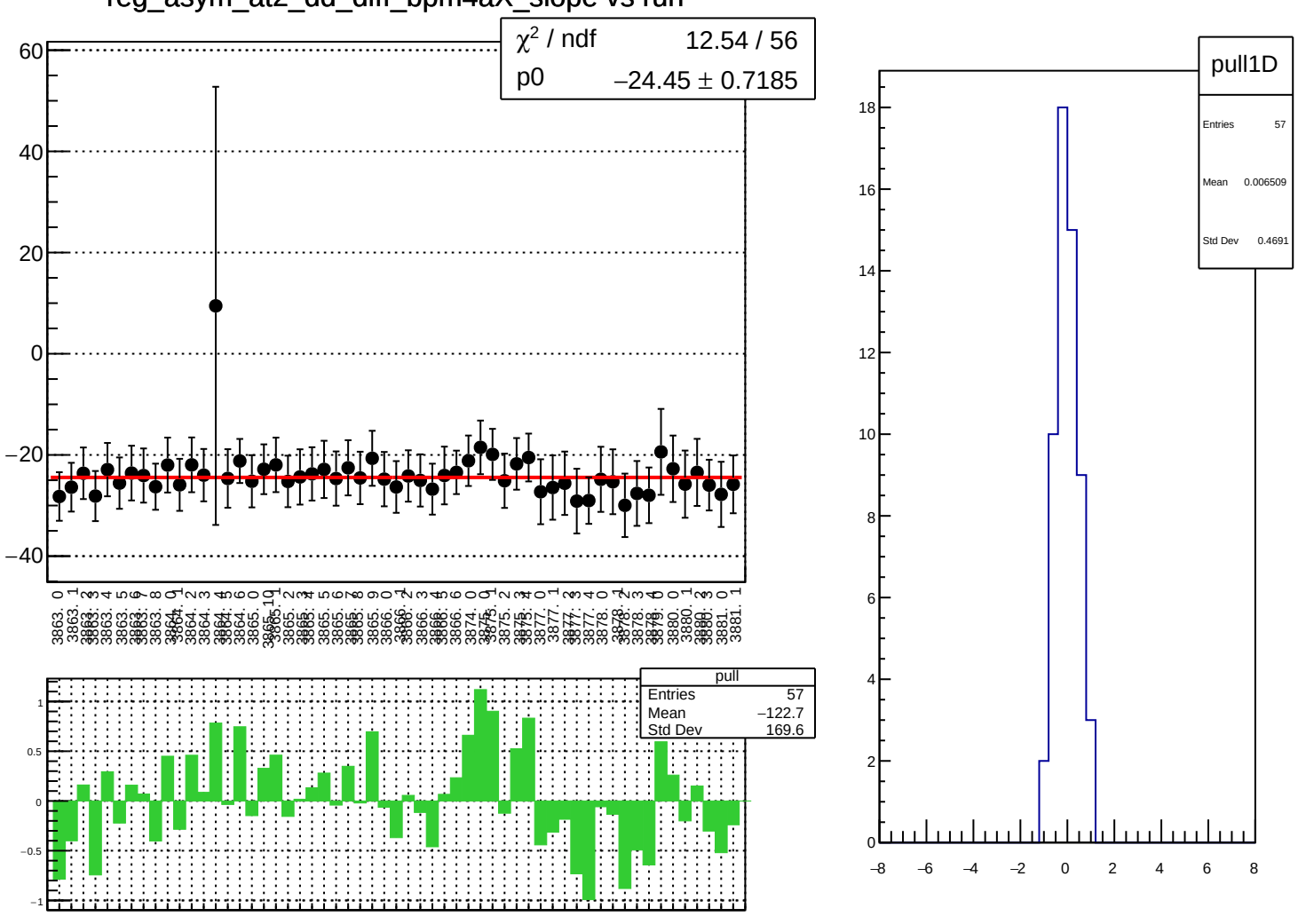

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 370.6 / 56
p0 −167.5 ± 0.3926
pull
Entries 57
Mean −135.6
Std Dev 165.2
pull1D
Entries 57
Mean 0.2033
Std Dev 2.542

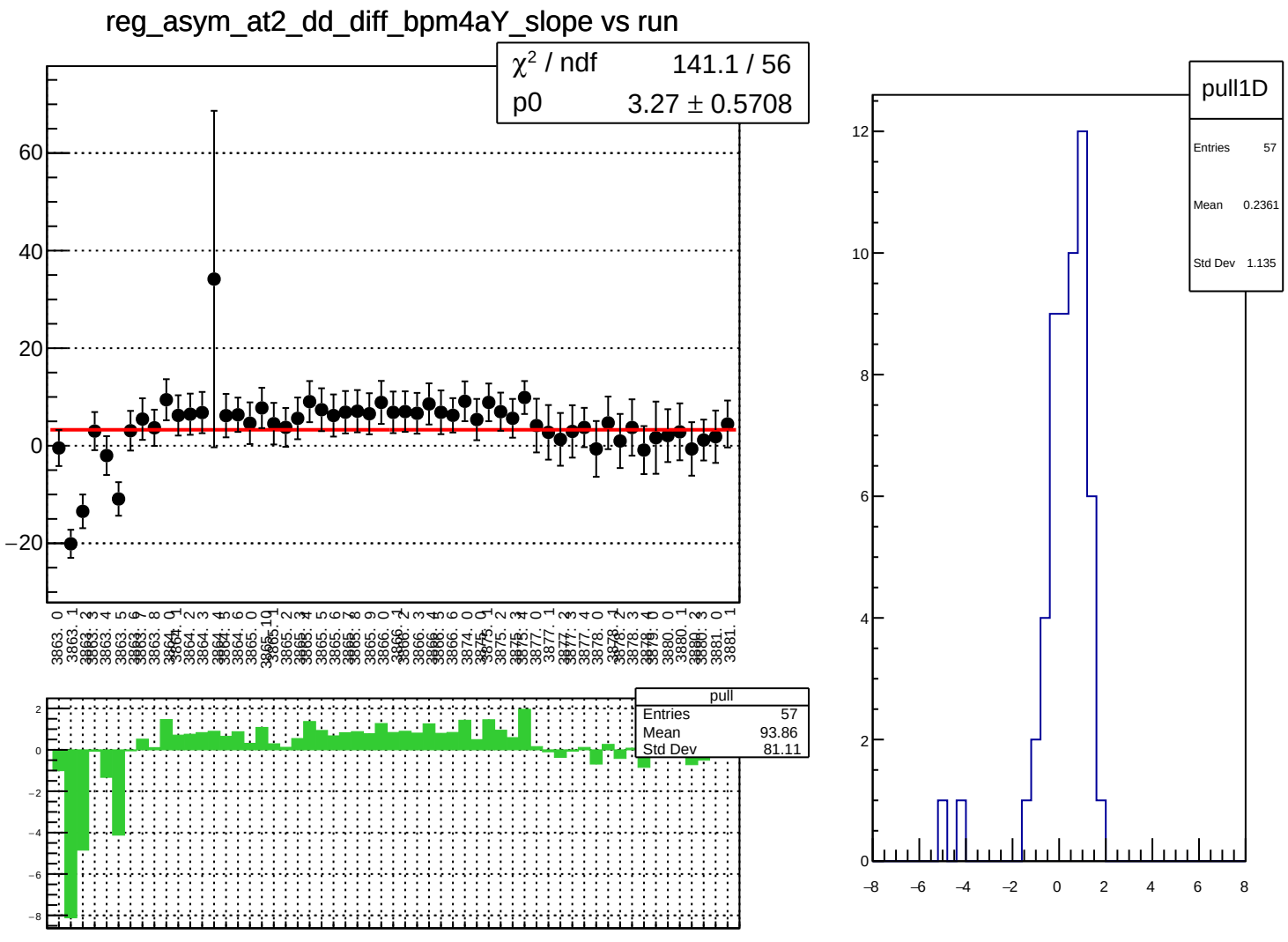

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 270.2 / 56
p0 41.94 ± 3.045
pull
Entries 57
Mean 63.72
Std Dev 39.45

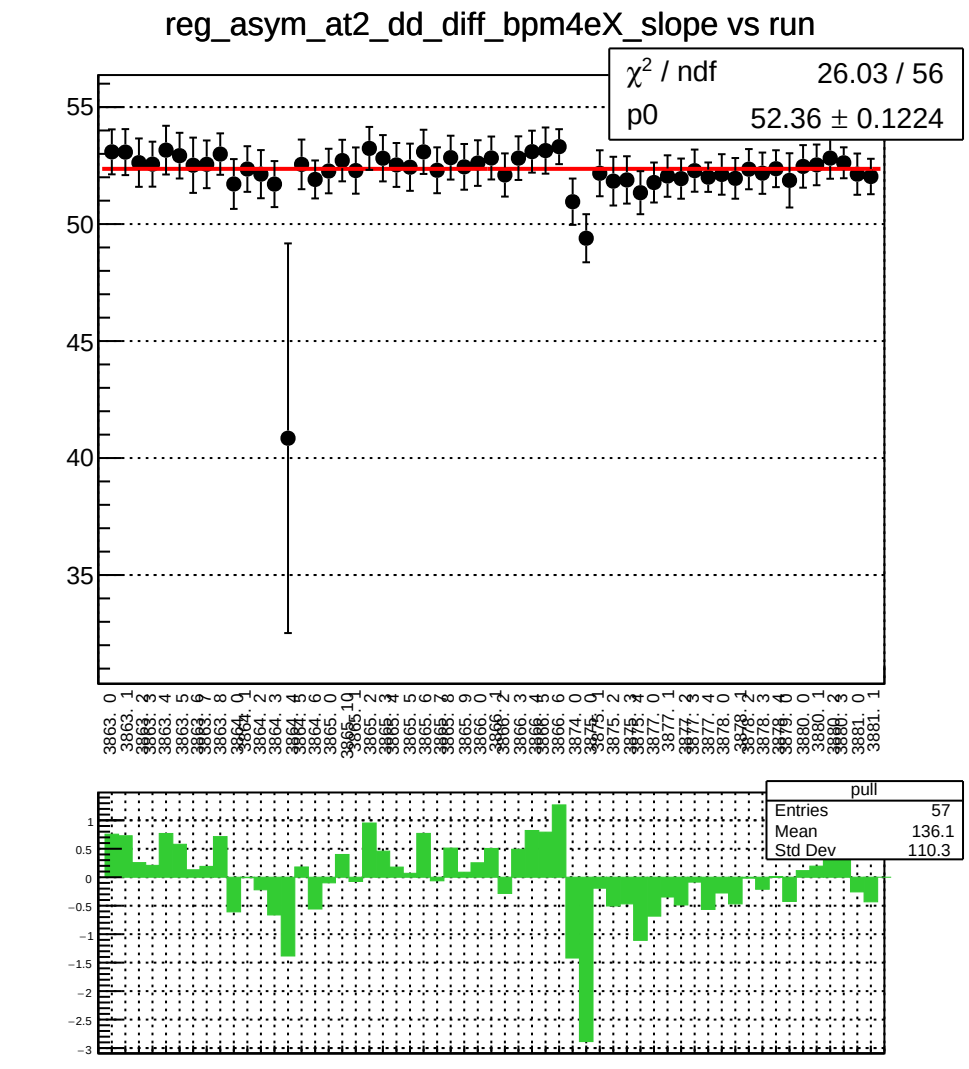

pull1D
Entries 57
Mean 0.6151
Std Dev 1.374

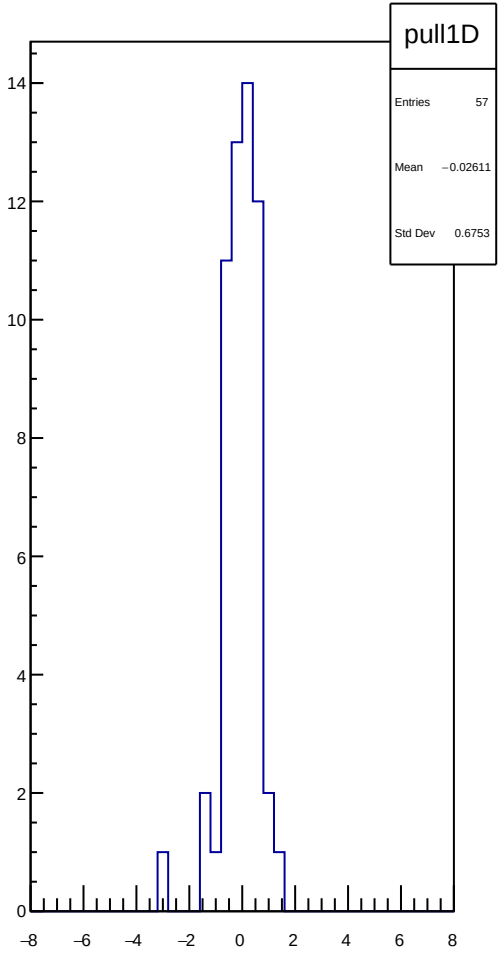

reg_asym_at2_avg_diff_bpm11X_slope vs run
χ² / ndf 1461 / 56
p0 −381.9 ± 0.5821
pull
Entries 57
Mean 179.8
Std Dev 148.8

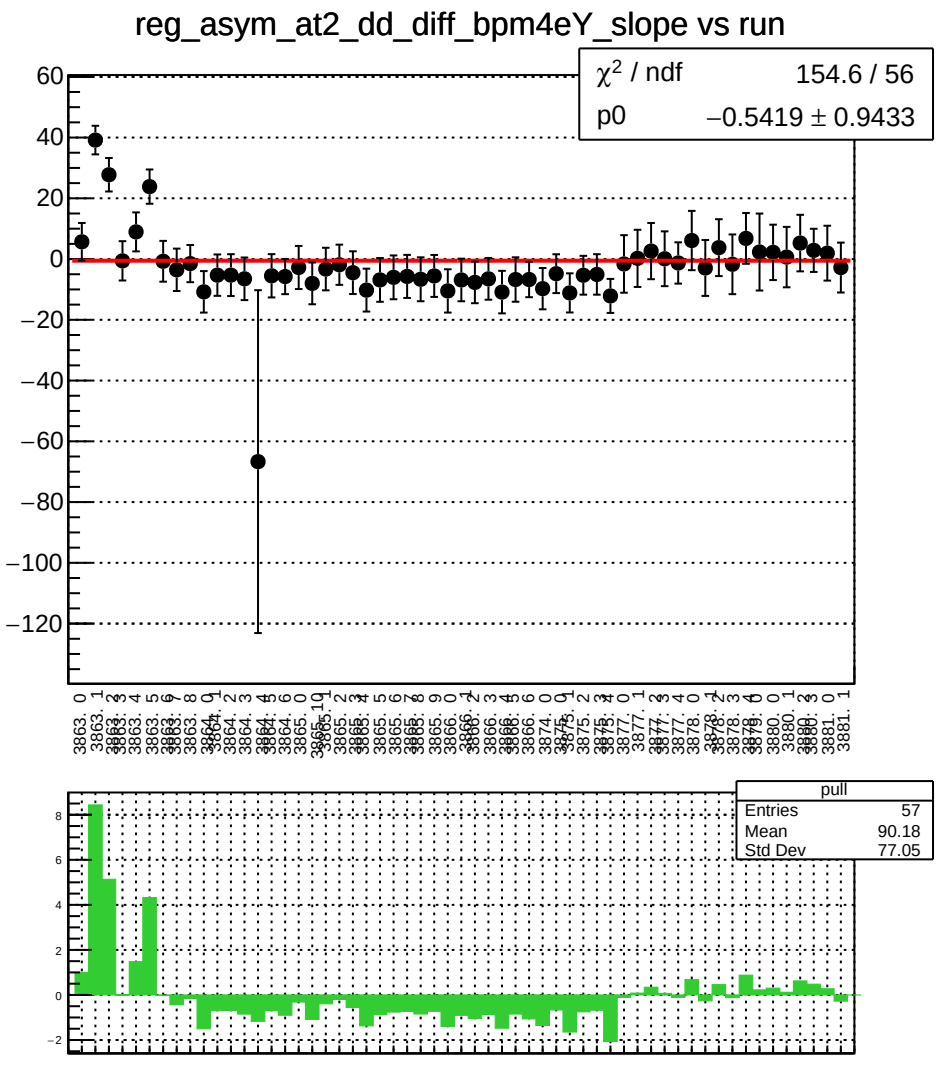

pull1D
Entries 57
Mean 0.02124
Std Dev 4.534

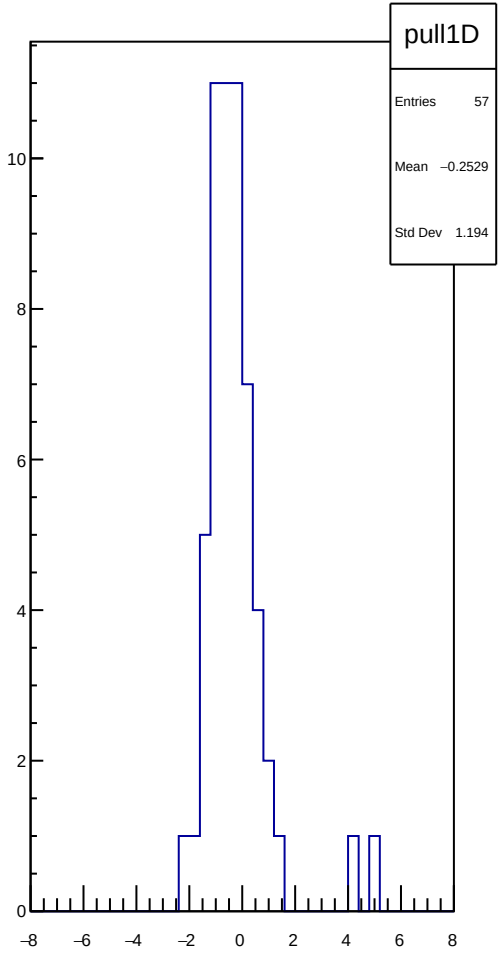

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 12.54 / 56
p0 −24.45 ± 0.7185
pull
Entries 57
Mean −122.7
Std Dev 169.6
pull1D
Entries 57
Mean 0.006509
Std Dev 0.4691

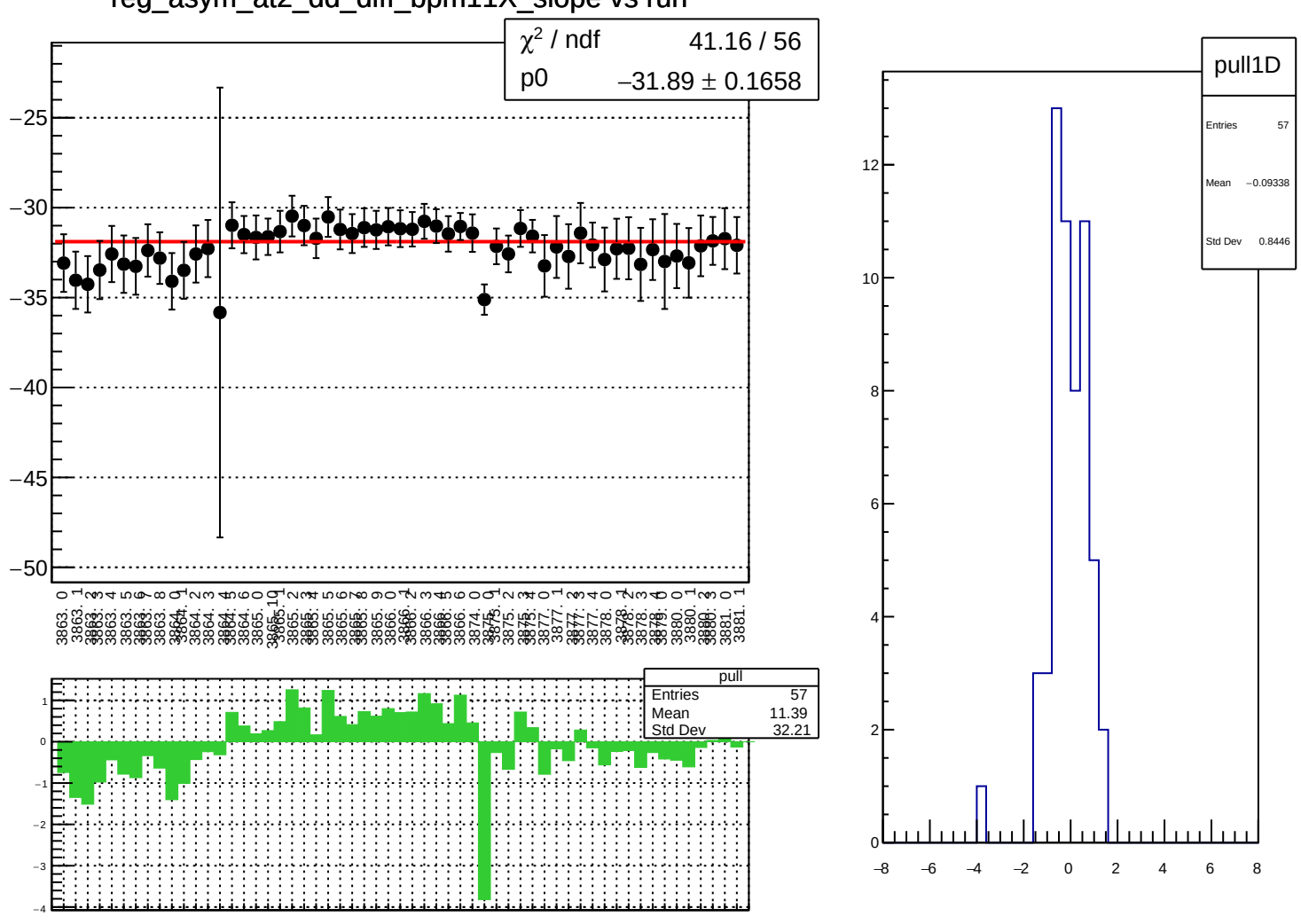

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 141.1 / 56
p0 3.27 ± 0.5708
pull
Entries 57
Mean 93.86
Std Dev 81.11
pull1D
Entries 57
Mean 0.2361
Std Dev 1.135

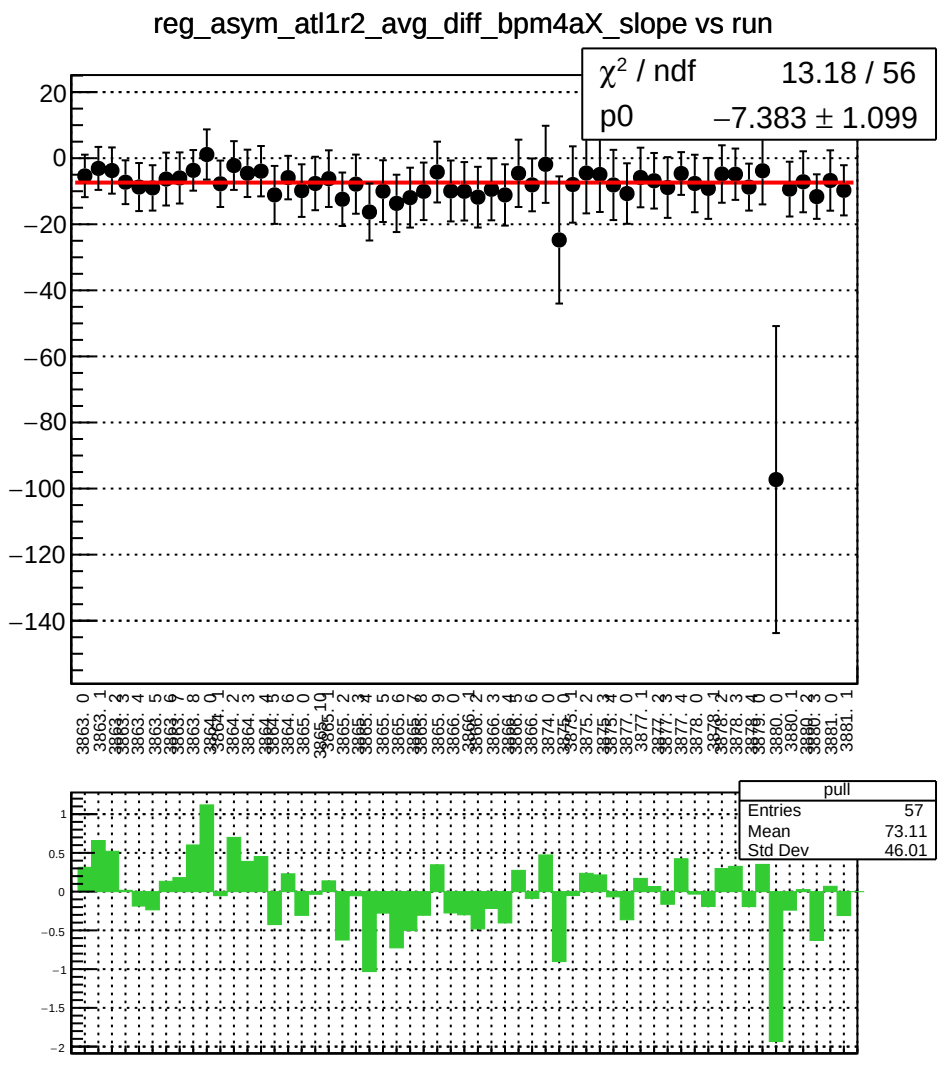

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.03 / 56
p0 52.36 ± 0.1224
pull
Entries 57
Mean 136.1
Std Dev 110.3

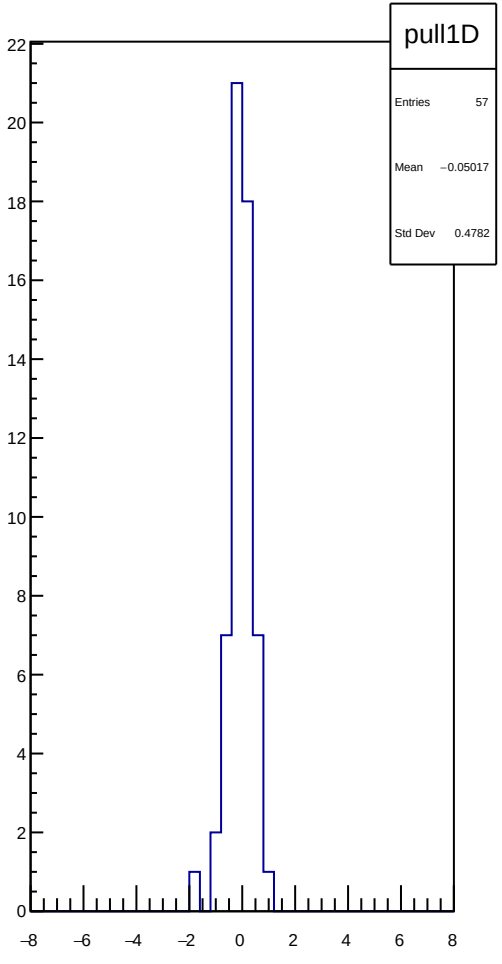

pull1D
Entries 57
Mean −0.02611
Std Dev 0.6753

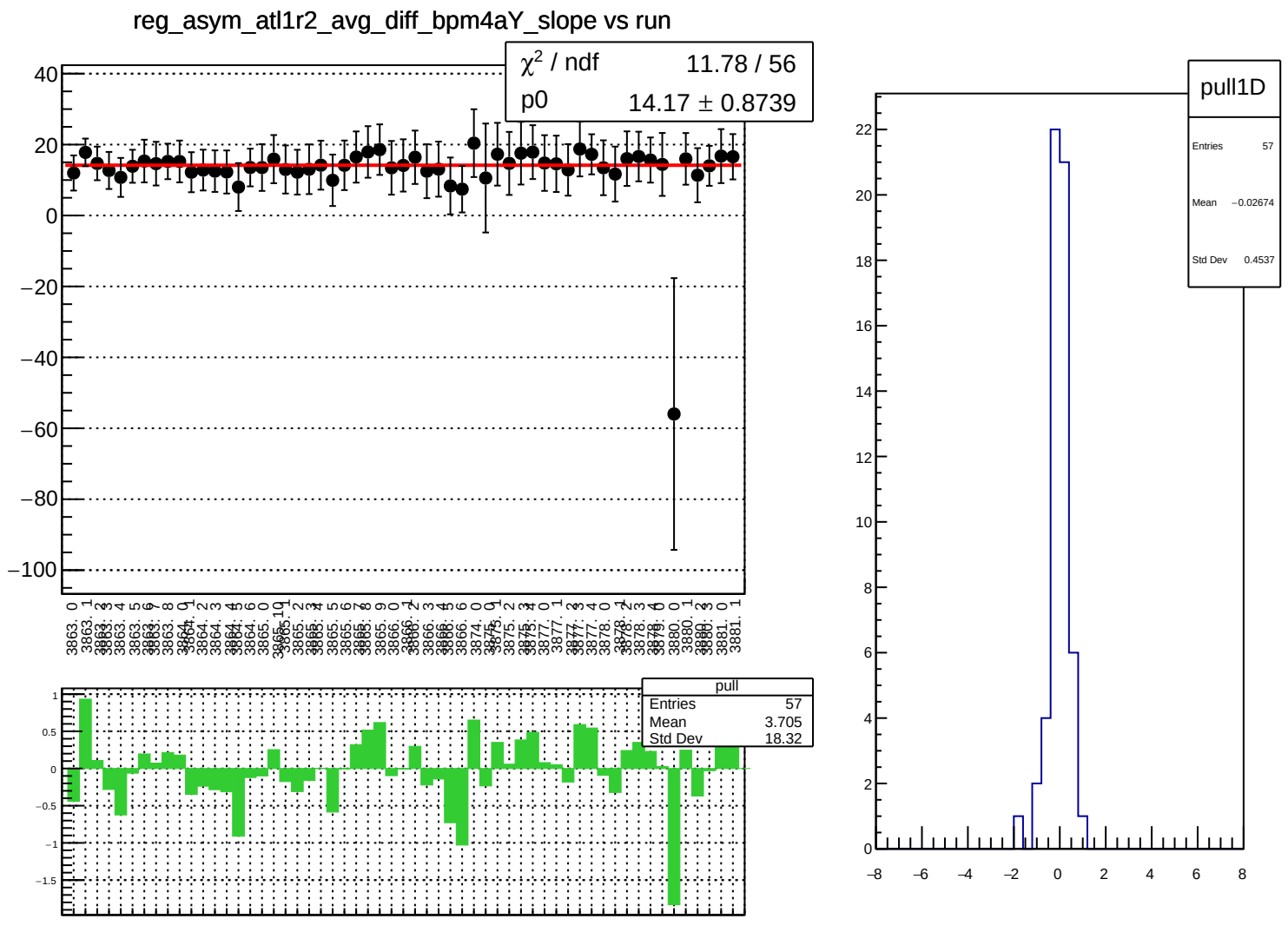

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 154.6 / 56
p0 −0.5419 ± 0.9433
pull
Entries 57
Mean 90.18
Std Dev 77.05

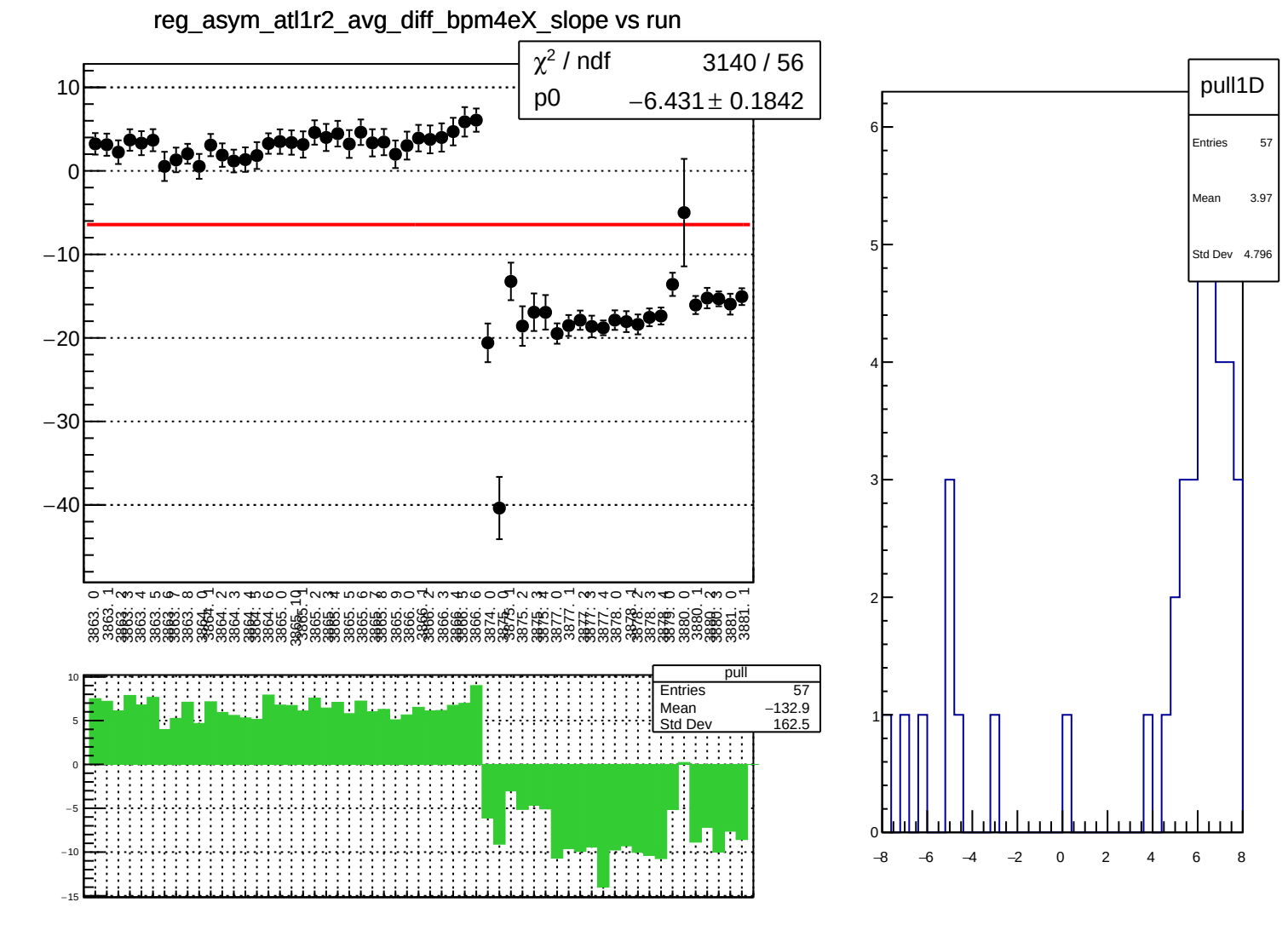

pull1D
Entries 57
Mean −0.2529
Std Dev 1.194

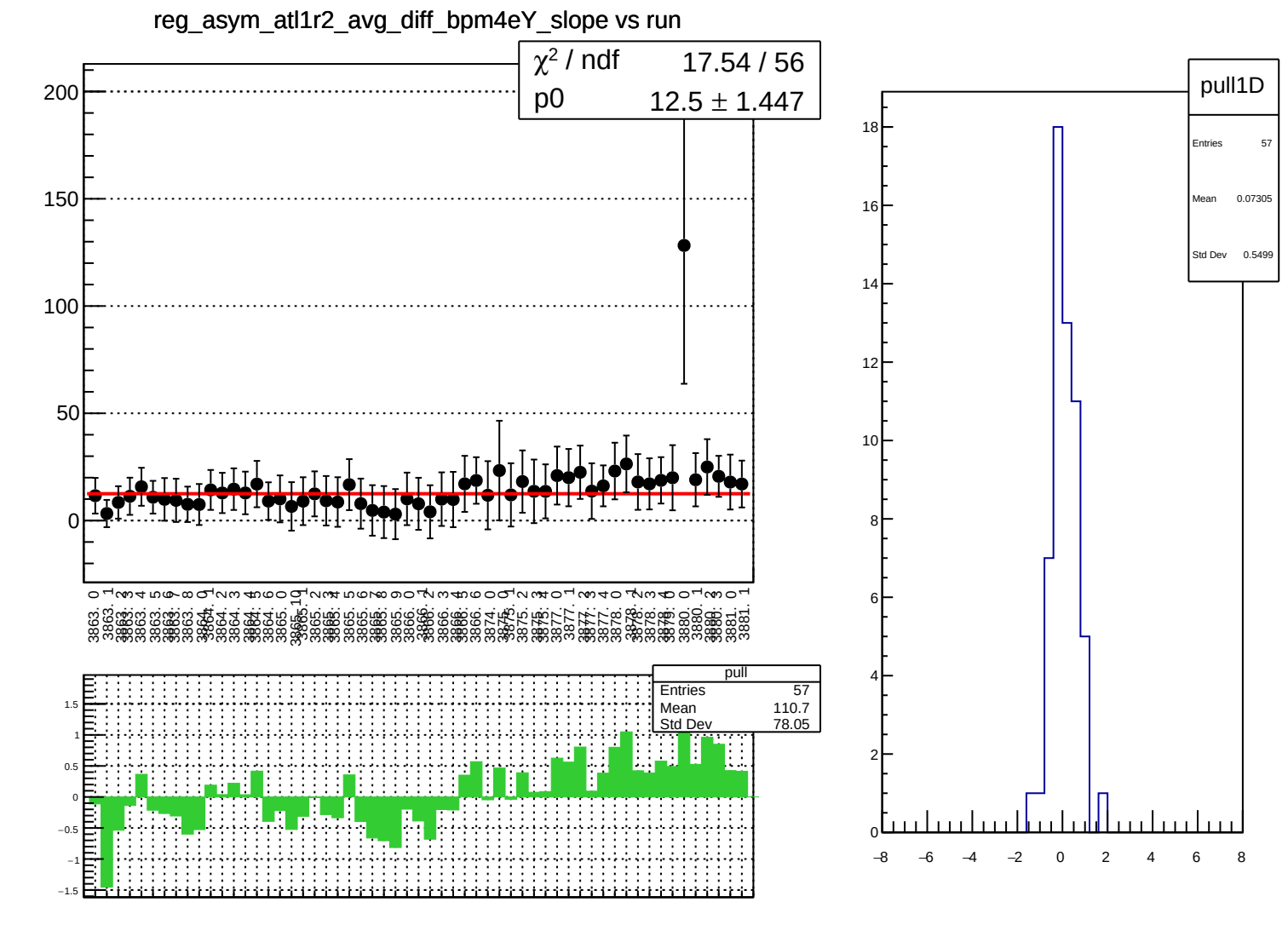

reg_asym_at2_dd_diff_bpm11X_slope vs run
χ² / ndf 41.16 / 56
p0 −31.89 ± 0.1658
pull
Entries 57
Mean 11.39
Std Dev 32.21
pull1D
Entries 57
Mean −0.09338
Std Dev 0.8446

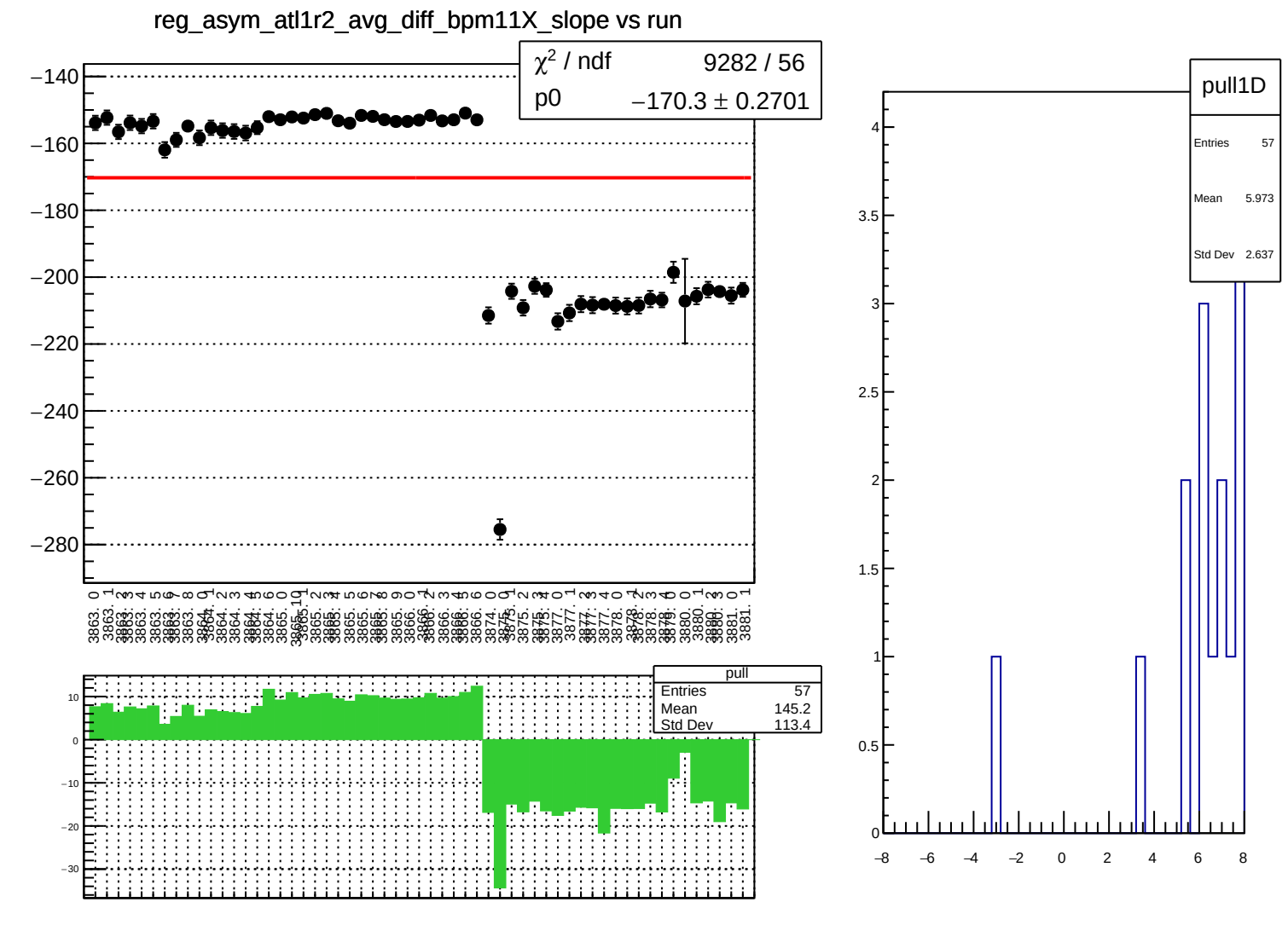

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 13.18 / 56
p0 −7.383 ± 1.099
pull
Entries 57
Mean 73.11
Std Dev 46.01

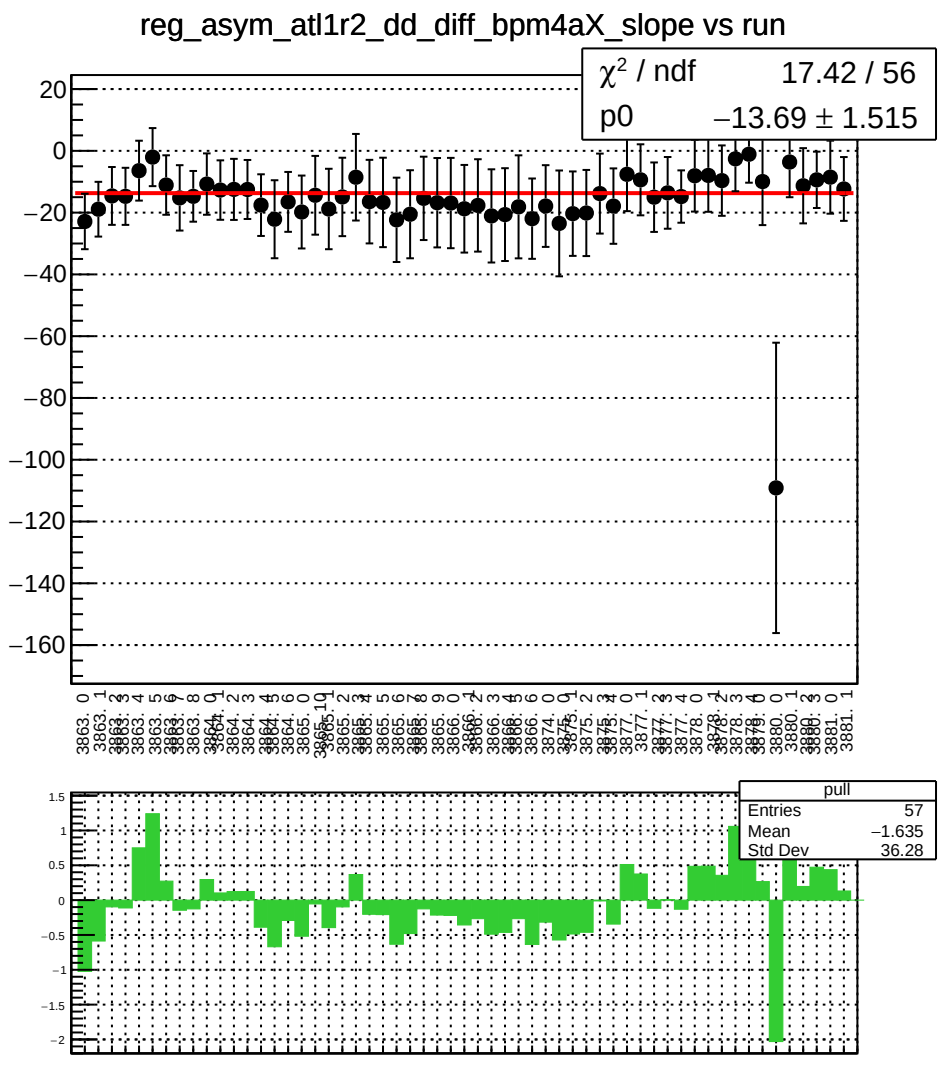

pull1D
Entries 57
Mean −0.05017
Std Dev 0.4782

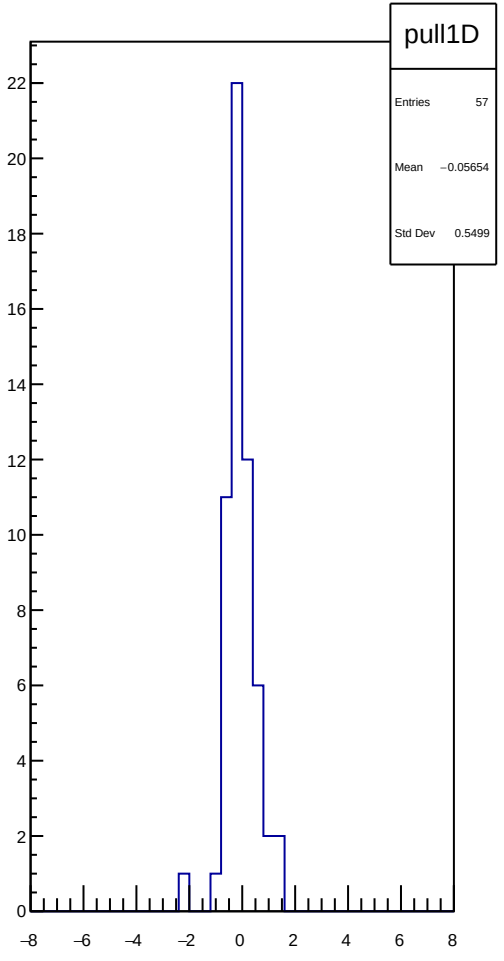

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.78 / 56
p0 14.17 ± 0.8739
pull
Entries 57
Mean 3.705
Std Dev 18.32
pull1D
Entries 57
Mean −0.02674
Std Dev 0.4537

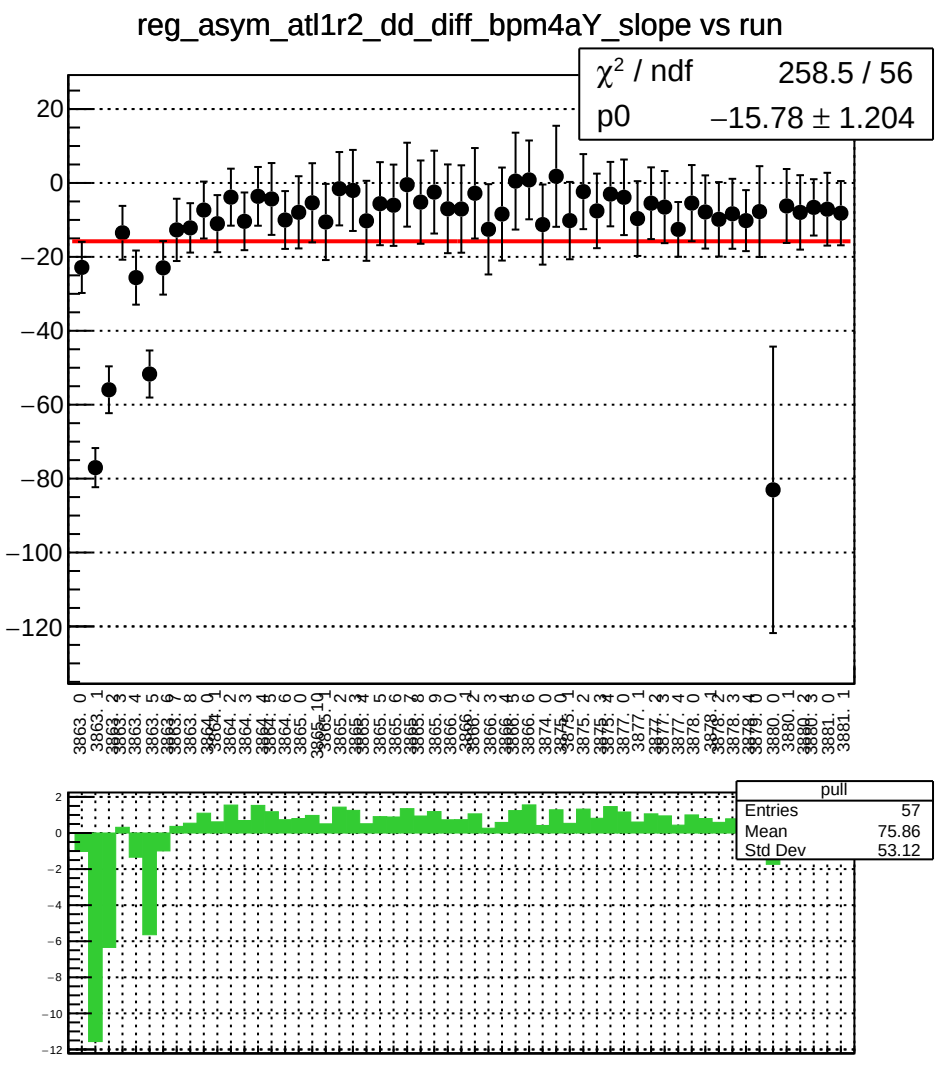

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3140 / 56
p0 −6.431 ± 0.1842
pull
Entries 57
Mean −132.9
Std Dev 162.5
pull1D
Entries 57
Mean 3.97
Std Dev 4.796

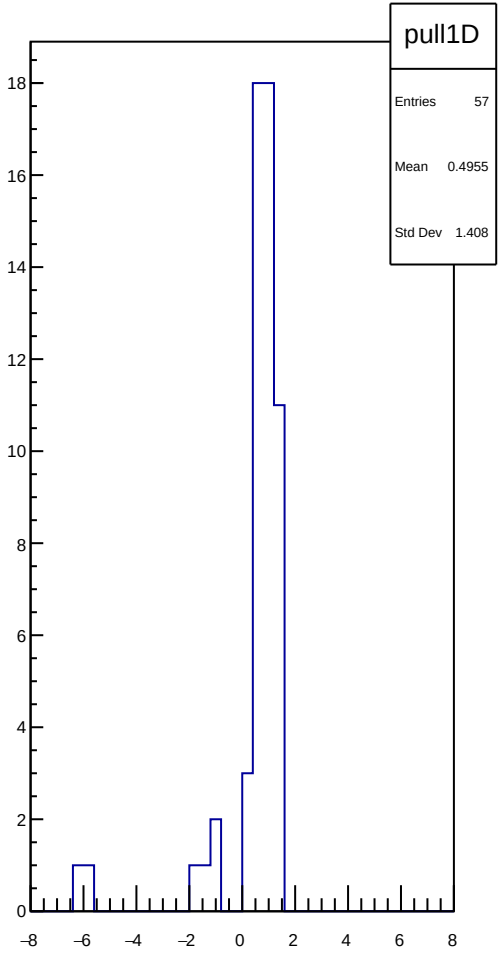

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.54 / 56
p0 12.5 ± 1.447
pull
Entries 57
Mean 110.7
Std Dev 78.05
pull1D
Entries 57
Mean 0.07305
Std Dev 0.5499

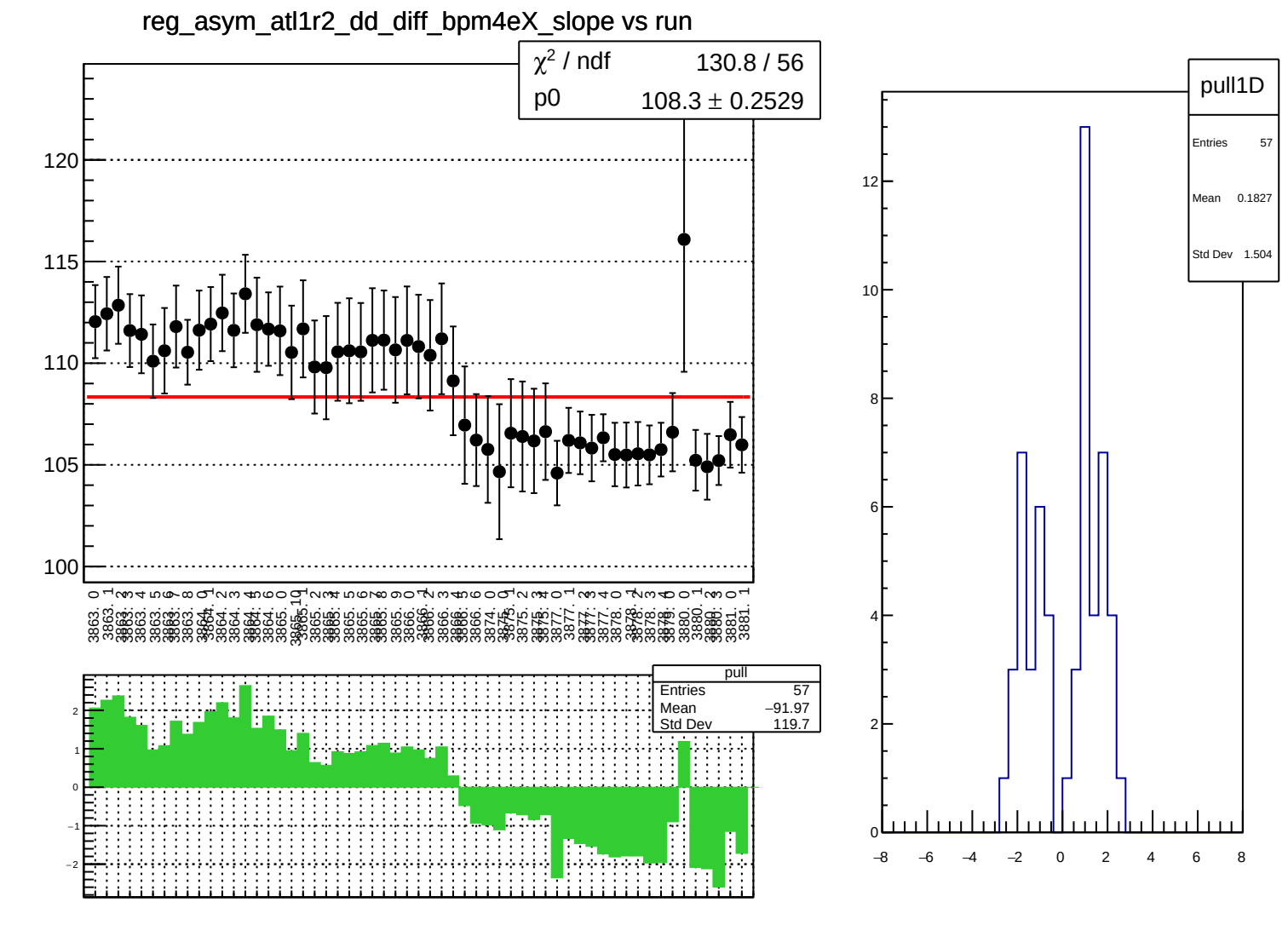

reg_asym_atl1r2_avg_diff_bpm11X_slope vs run
χ² / ndf 9282 / 56
p0 −170.3 ± 0.2701
pull
Entries 57
Mean 145.2
Std Dev 113.4
pull1D
Entries 57
Mean 5.973
Std Dev 2.637

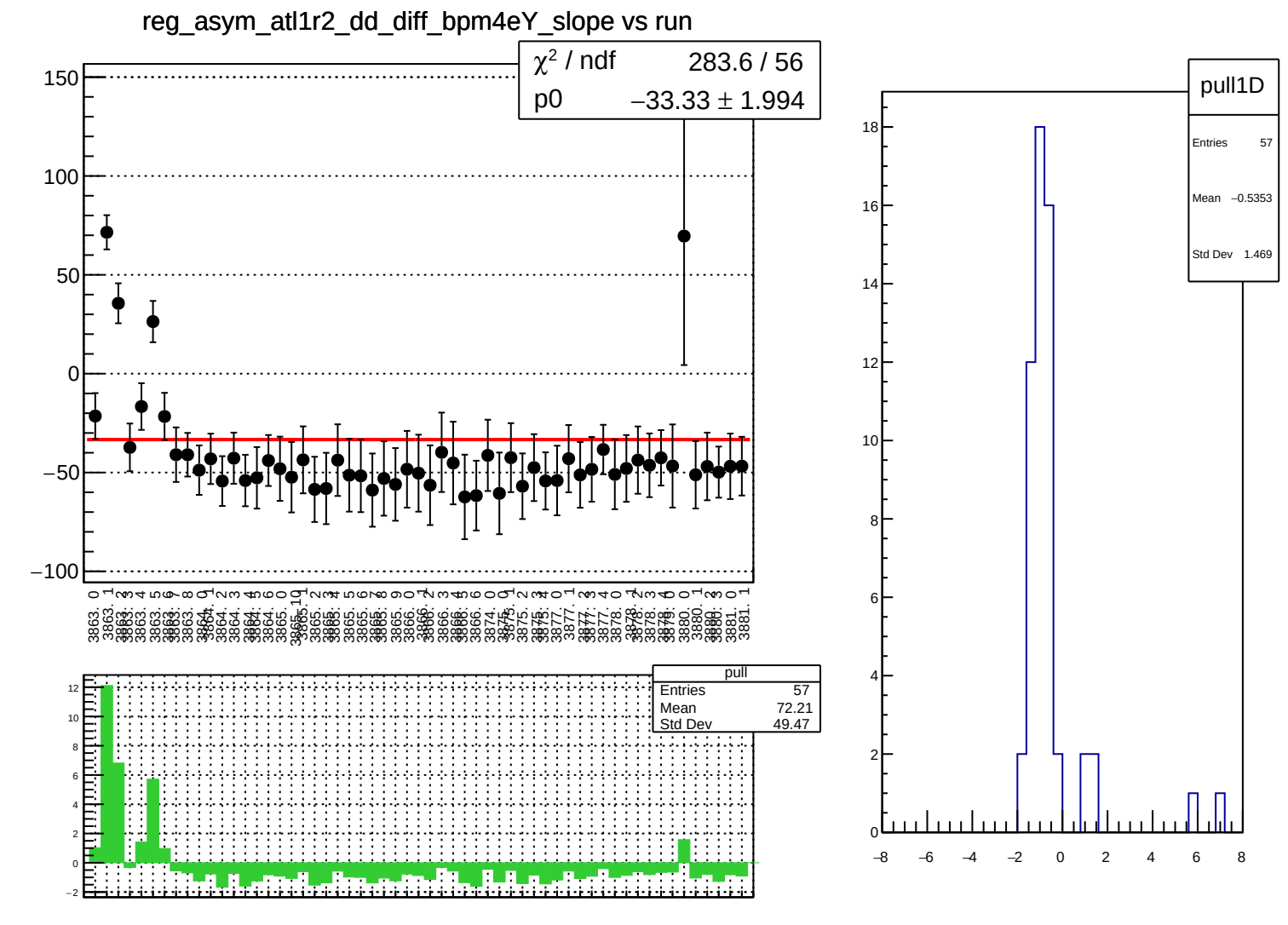

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ² / ndf 17.42 / 56
p0 −13.69 ± 1.515
pull
Entries 57
Mean −1.635
Std Dev 36.28

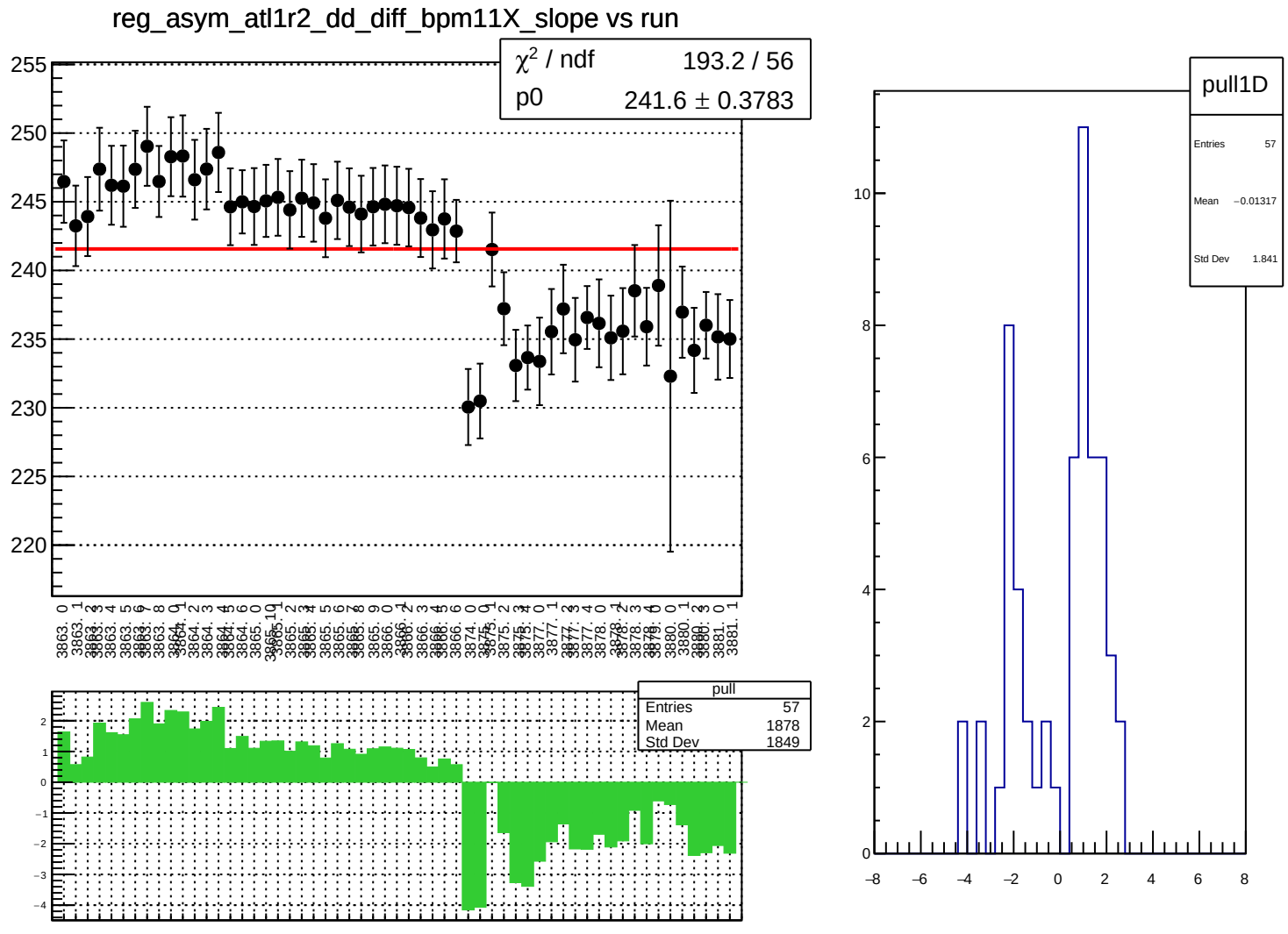

pull1D
Entries 57
Mean −0.05654
Std Dev 0.5499

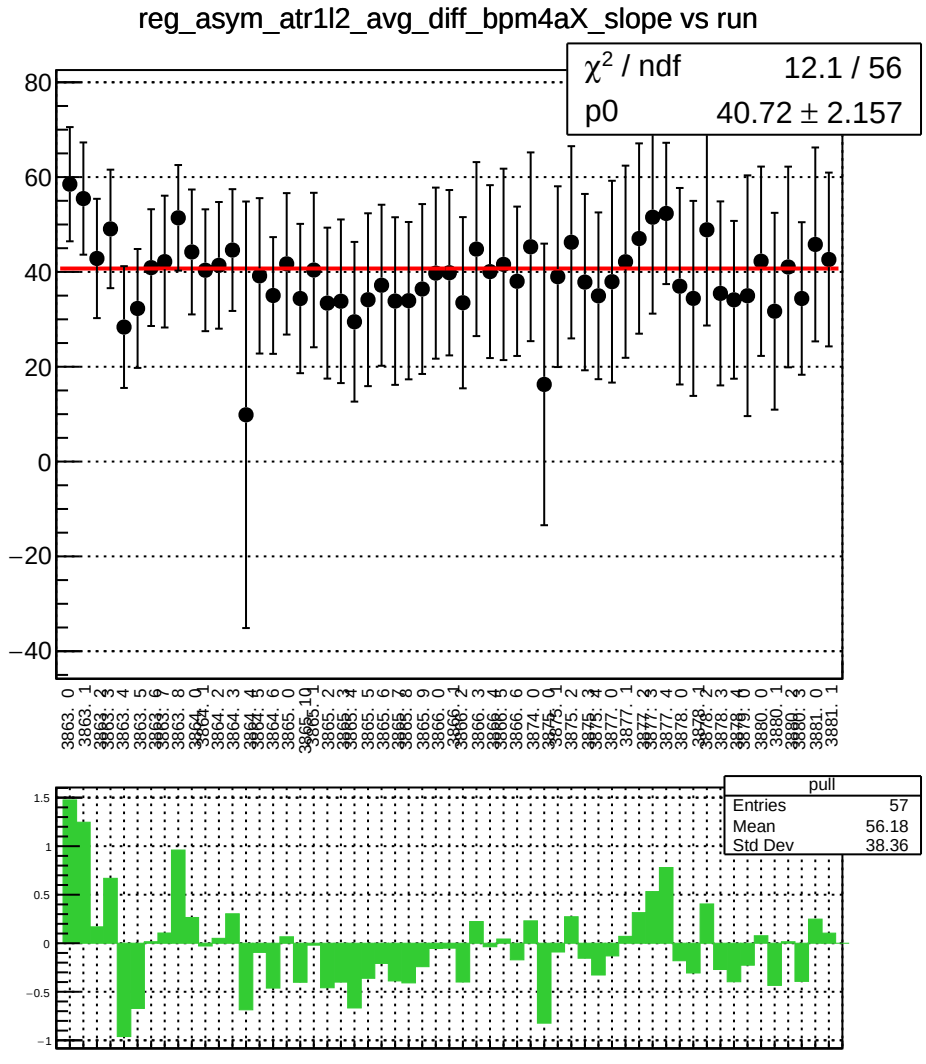

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 258.5 / 56
p0 −15.78 ± 1.204
pull
Entries 57
Mean 75.86
Std Dev 53.12

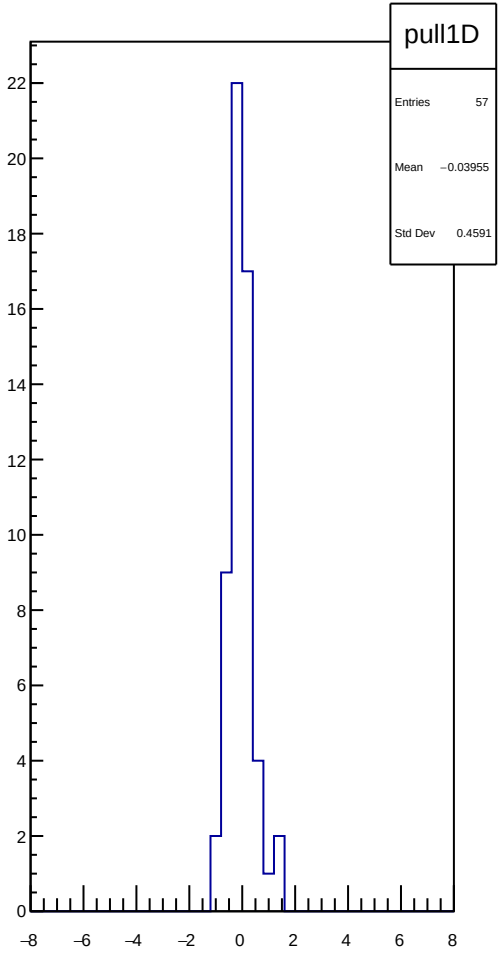

pull1D
Entries 57
Mean 0.4955
Std Dev 1.408

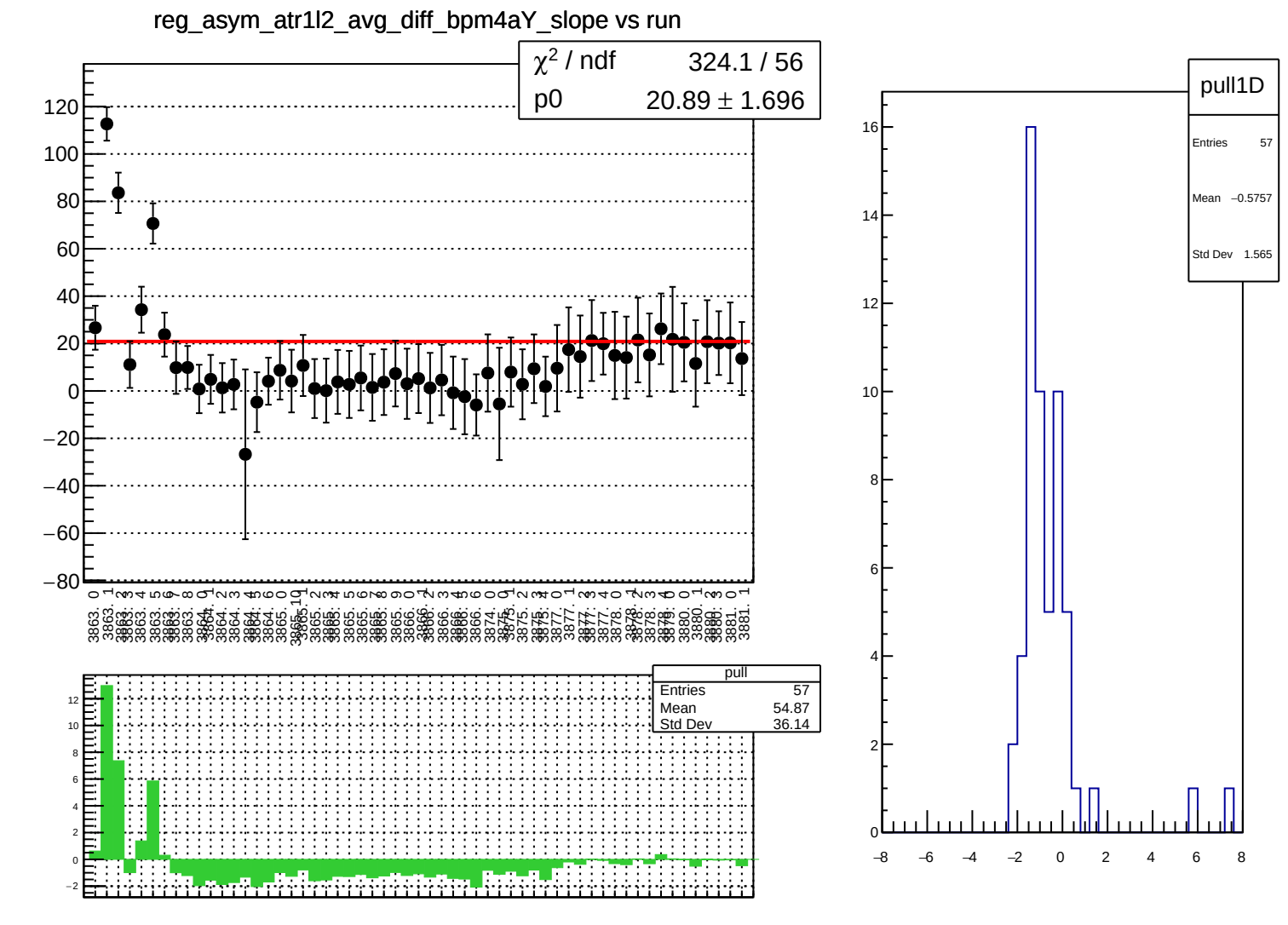

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 130.8 / 56
p0 108.3 ± 0.2529
120
115
110
105
100
pull
Entries 57
Mean −91.97
Std Dev 119.7
2
1
0
−1
−2
pull1D
Entries 57
Mean 0.1827
Std Dev 1.504
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

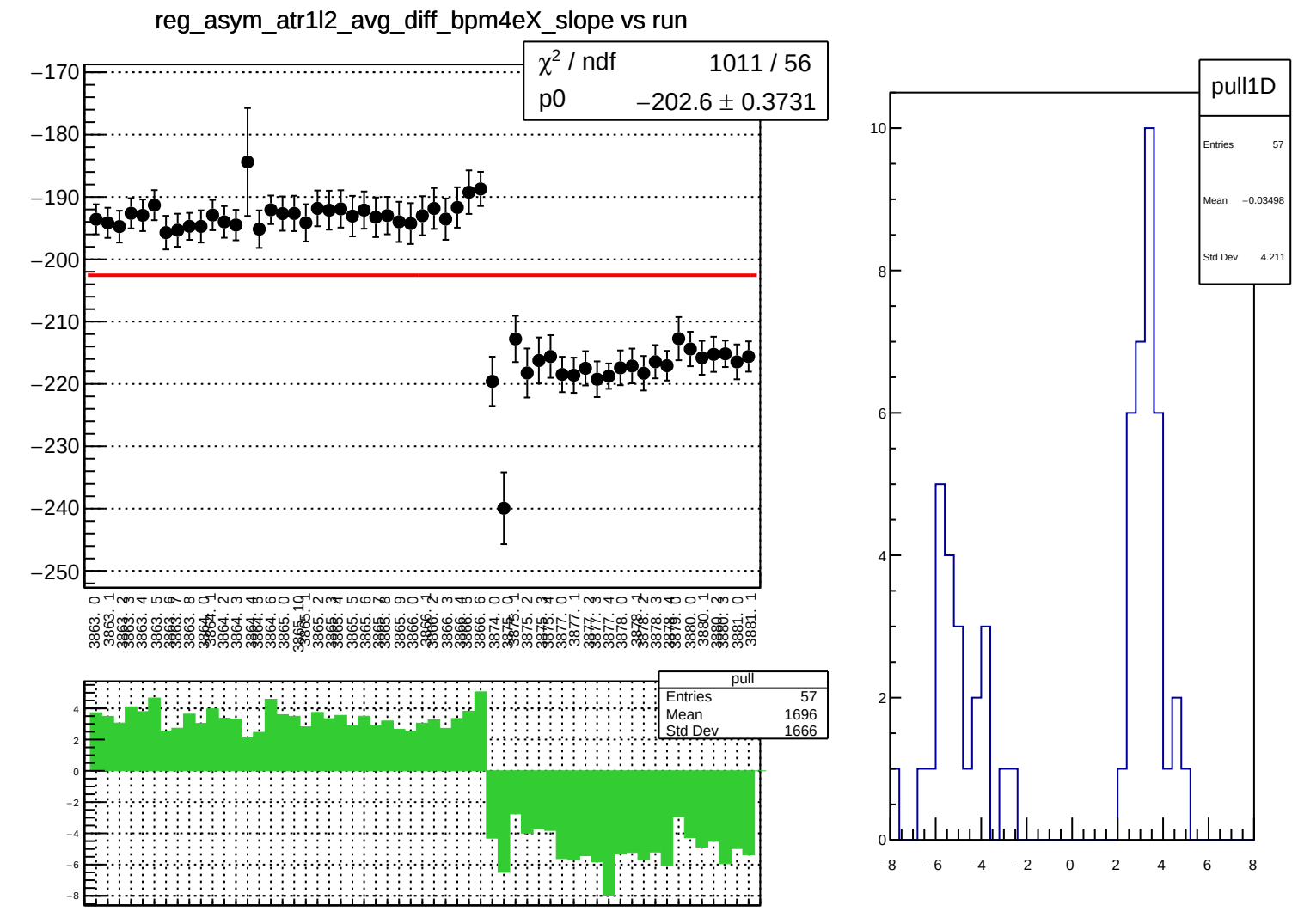

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 283.6 / 56
p0 −33.33 ± 1.994
pull
Entries 57
Mean 72.21
Std Dev 49.47
pull1D
Entries 57
Mean −0.5353
Std Dev 1.469

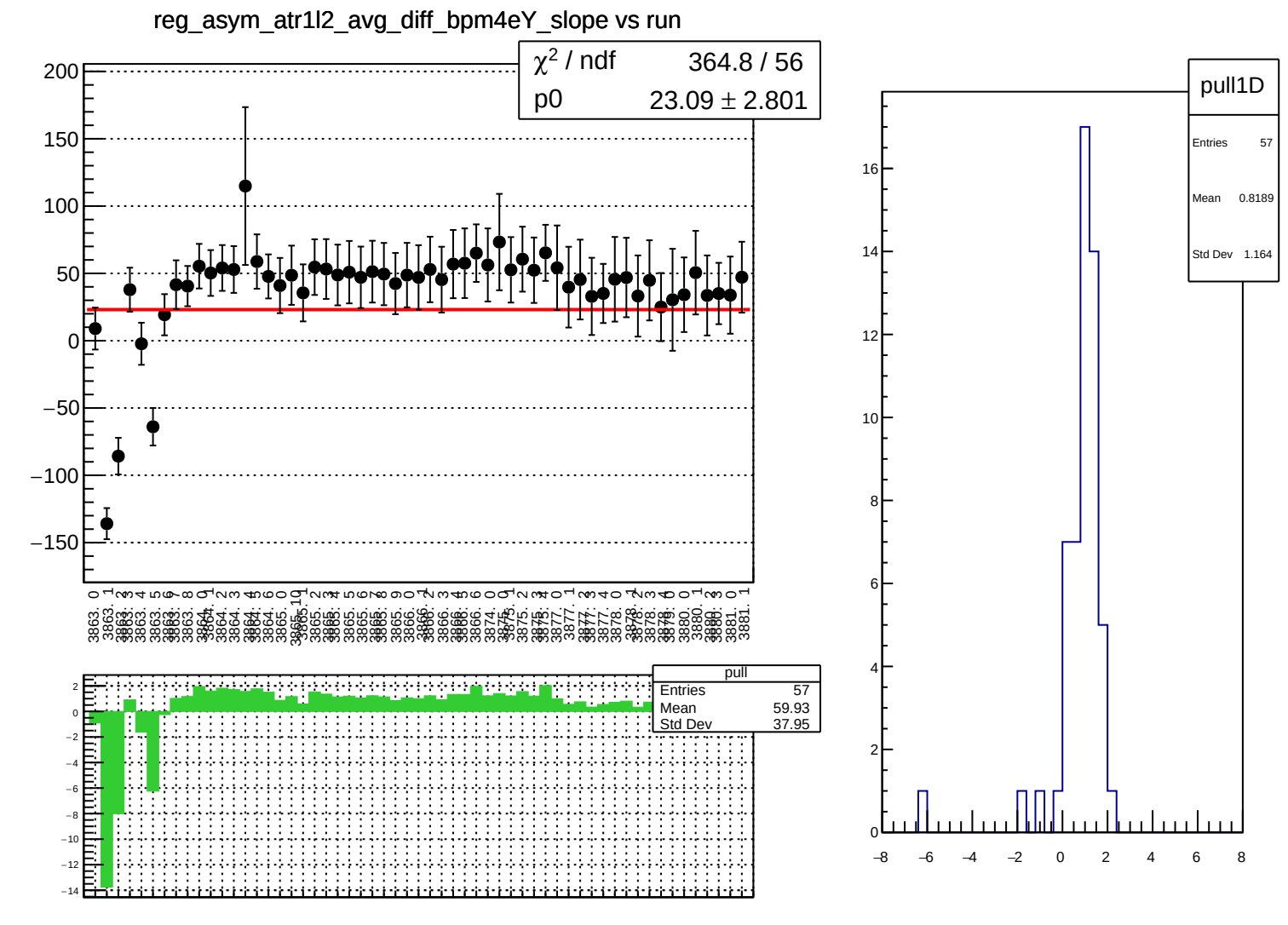

reg_asym_atl1r2_dd_diff_bpm11X_slope vs run
χ² / ndf 193.2 / 56
p0 241.6 ± 0.3783
pull
Entries 57
Mean 1878
Std Dev 1849
pull1D
Entries 57
Mean −0.01317
Std Dev 1.841

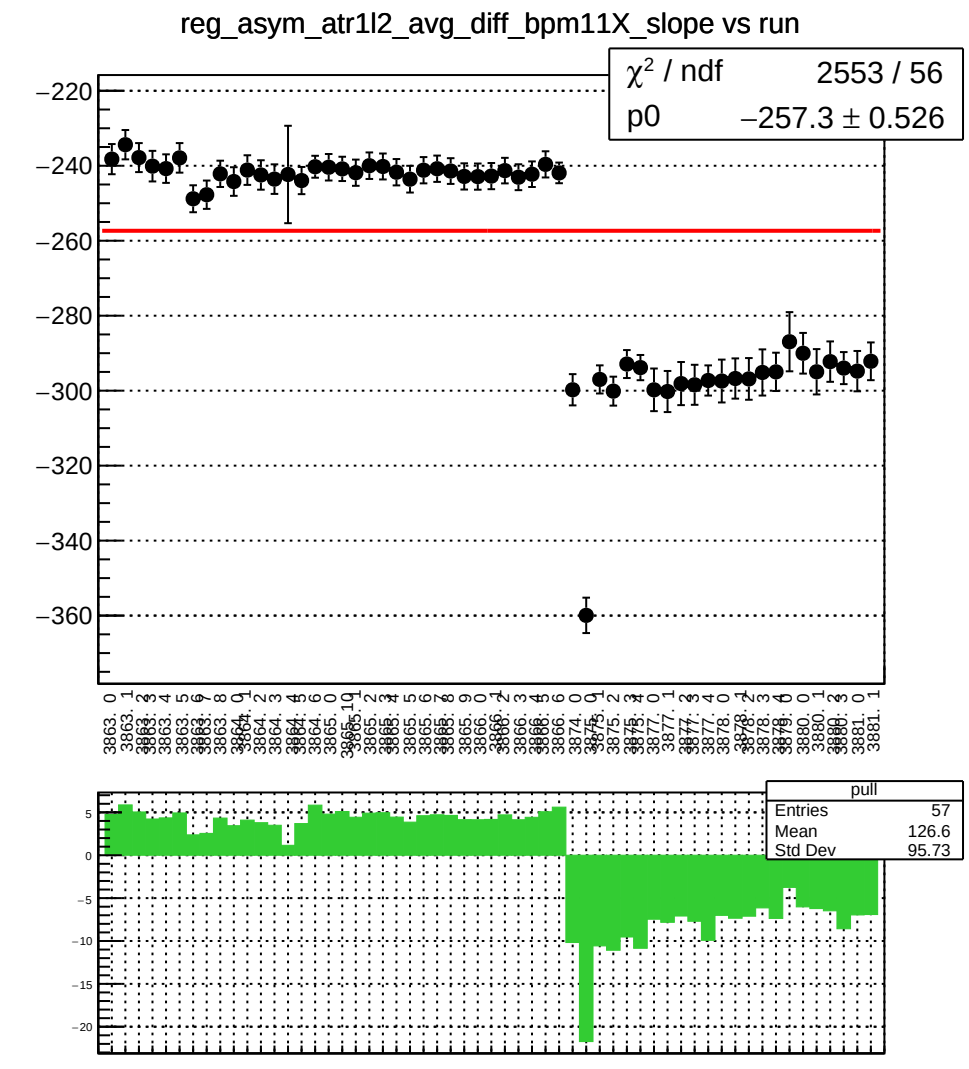

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.1 / 56
p0 40.72 ± 2.157
pull
Entries 57
Mean 56.18
Std Dev 38.36

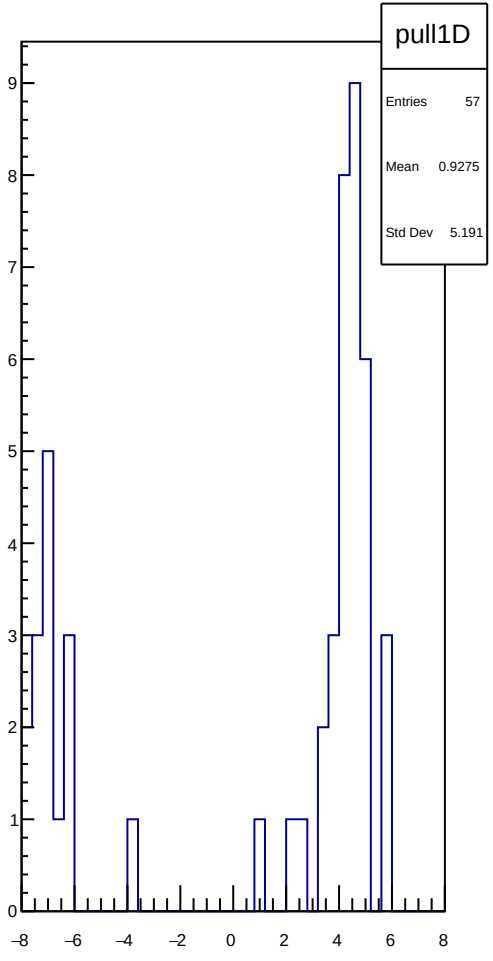

pull1D
Entries 57
Mean −0.03955
Std Dev 0.4591

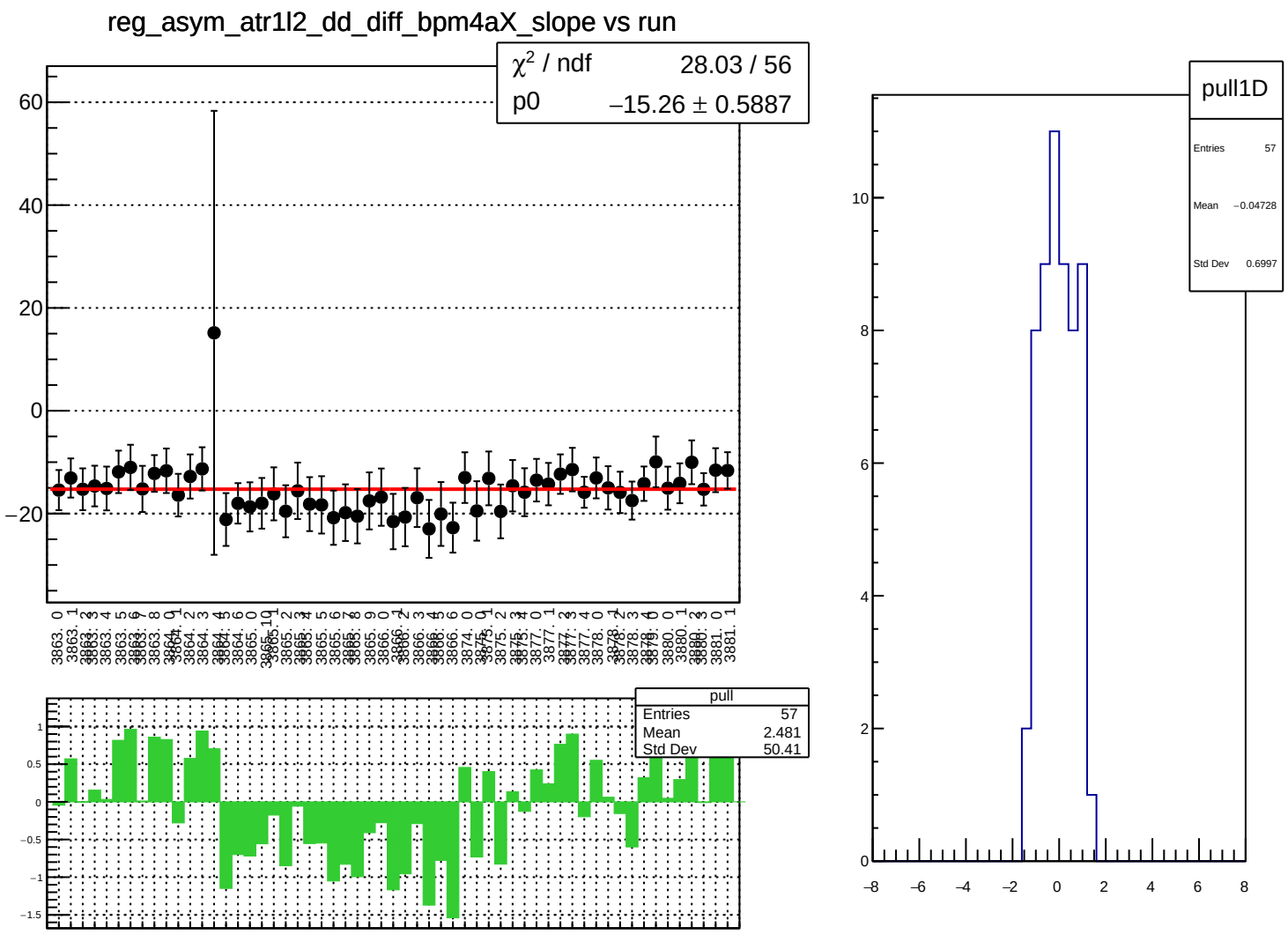

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 324.1 / 56
p0 20.89 ± 1.696
pull
Entries 57
Mean 54.87
Std Dev 36.14
pull1D
Entries 57
Mean −0.5757
Std Dev 1.565

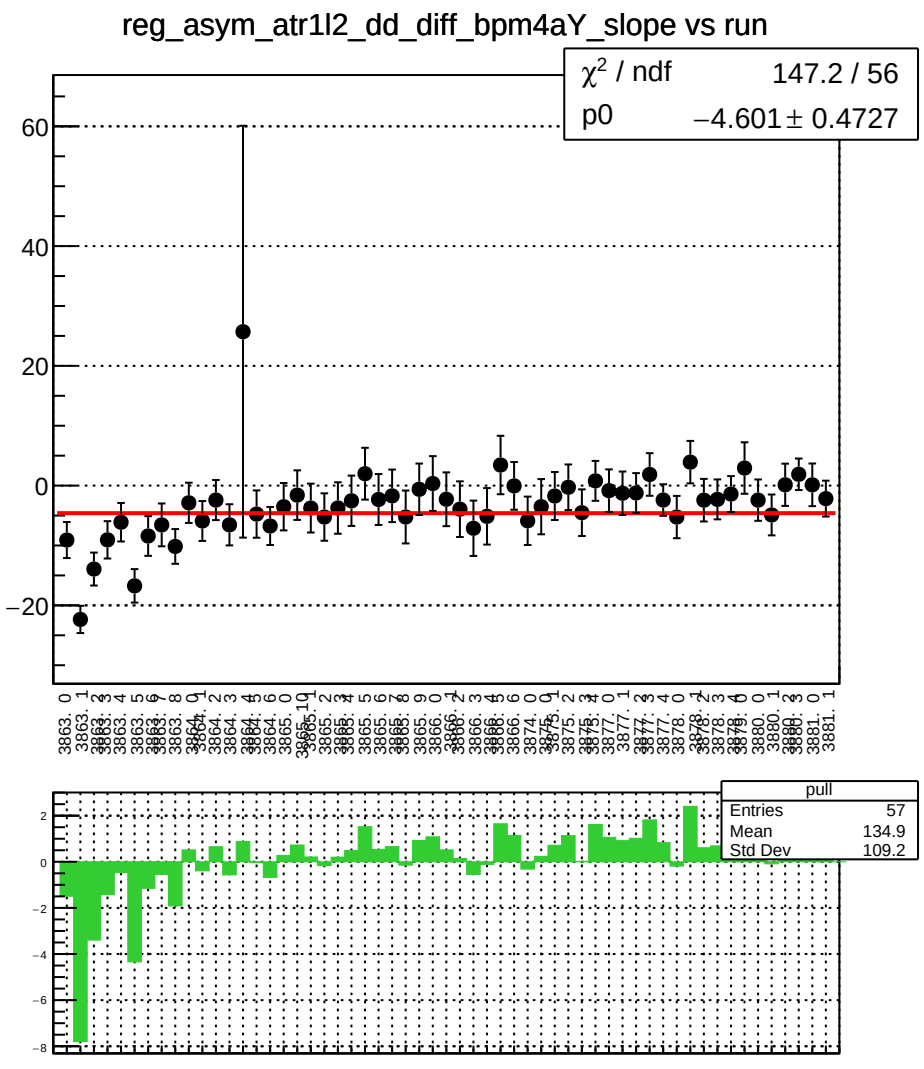

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 1011 / 56
p0 −202.6 ± 0.3731
pull
Entries 57
Mean 1696
Std Dev 1666
pull1D
Entries 57
Mean −0.03498
Std Dev 4.211

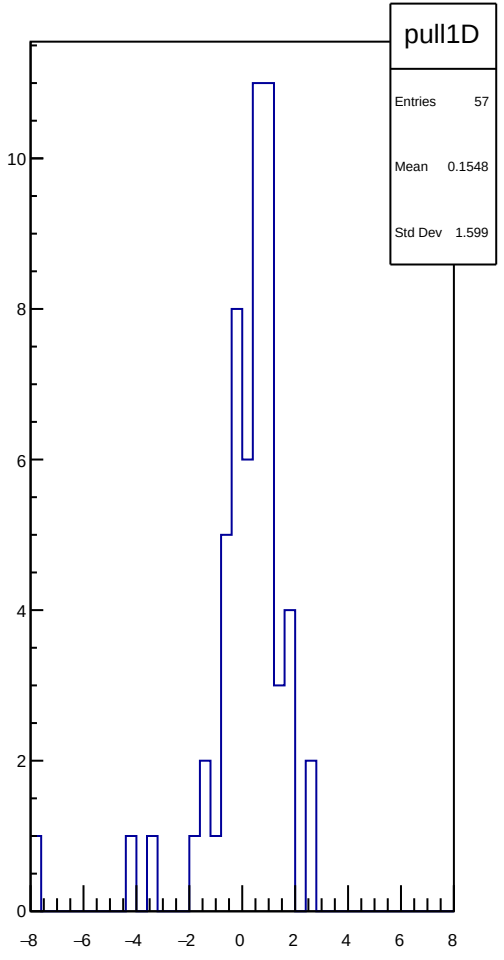

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 364.8 / 56
p0 23.09 ± 2.801
pull
Entries 57
Mean 59.93
Std Dev 37.95
pull1D
Entries 57
Mean 0.8189
Std Dev 1.164

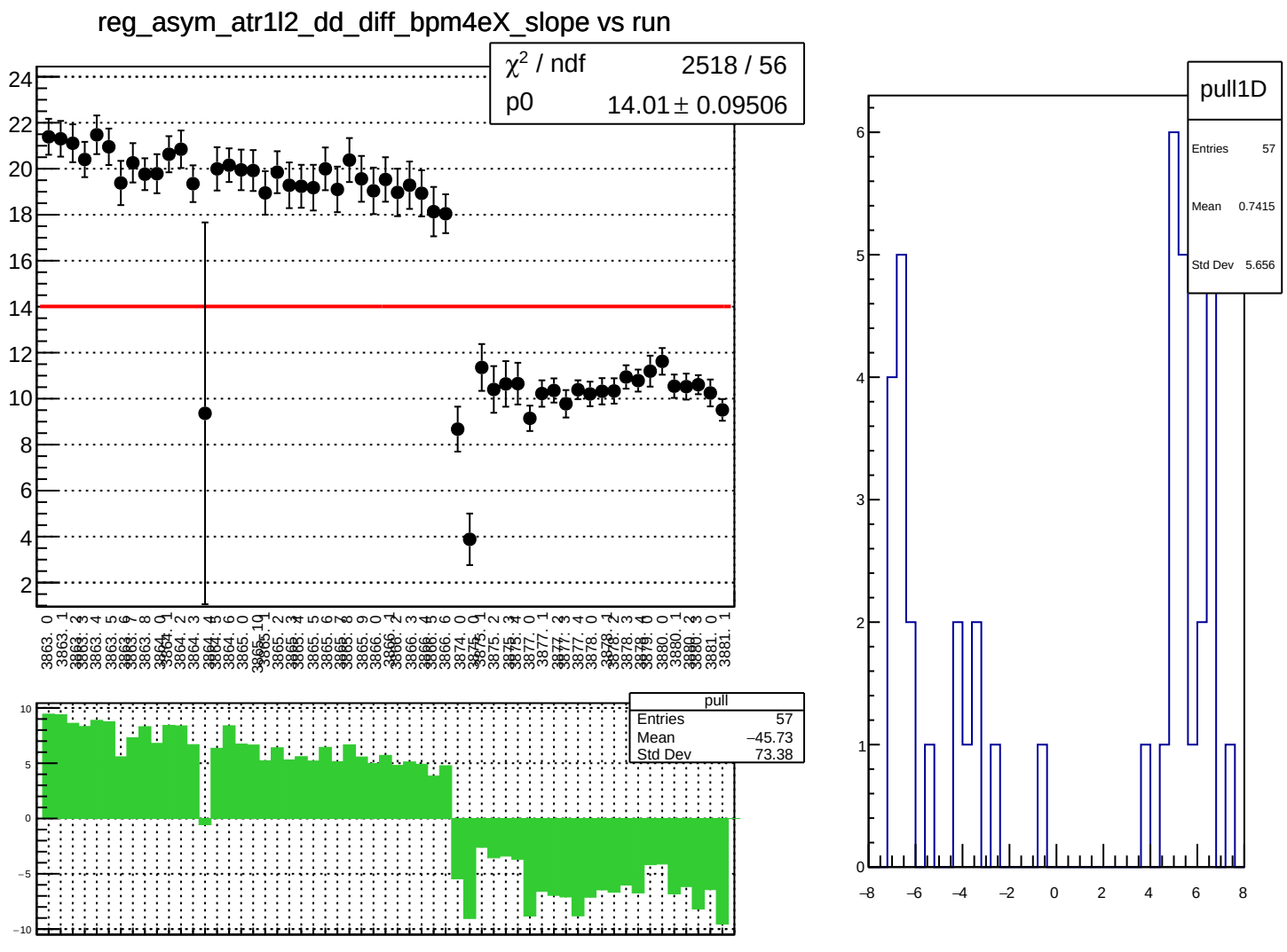

reg_asym_atr1l2_avg_diff_bpm11X_slope vs run
χ² / ndf 2553 / 56
p0 −257.3 ± 0.526
pull
Entries 57
Mean 126.6
Std Dev 95.73

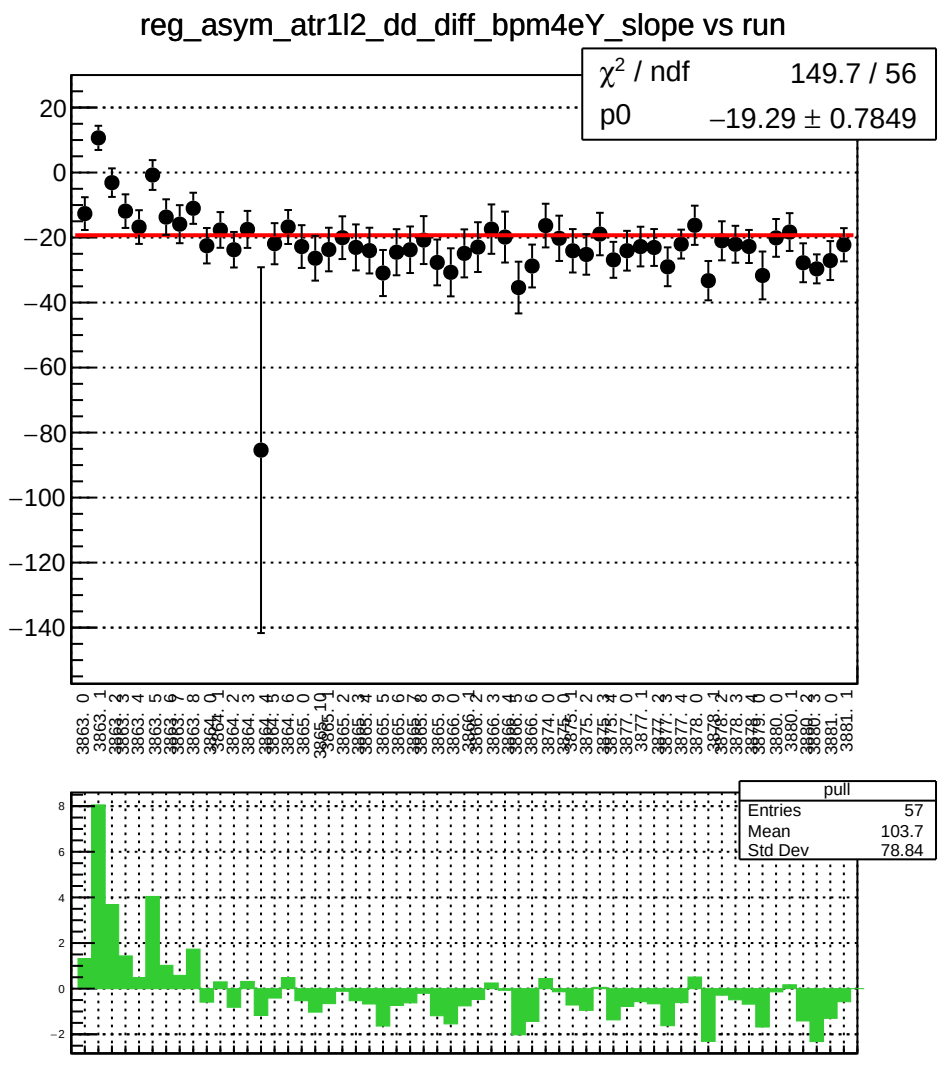

pull1D
Entries 57
Mean 0.9275
Std Dev 5.191

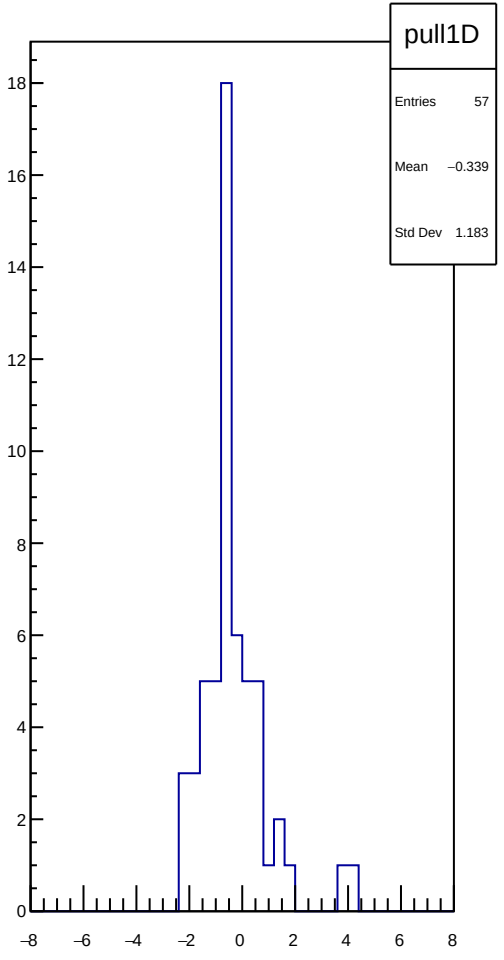

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 28.03 / 56
p0 −15.26 ± 0.5887
pull
Entries 57
Mean 2.481
Std Dev 50.41
pull1D
Entries 57
Mean −0.04728
Std Dev 0.6997

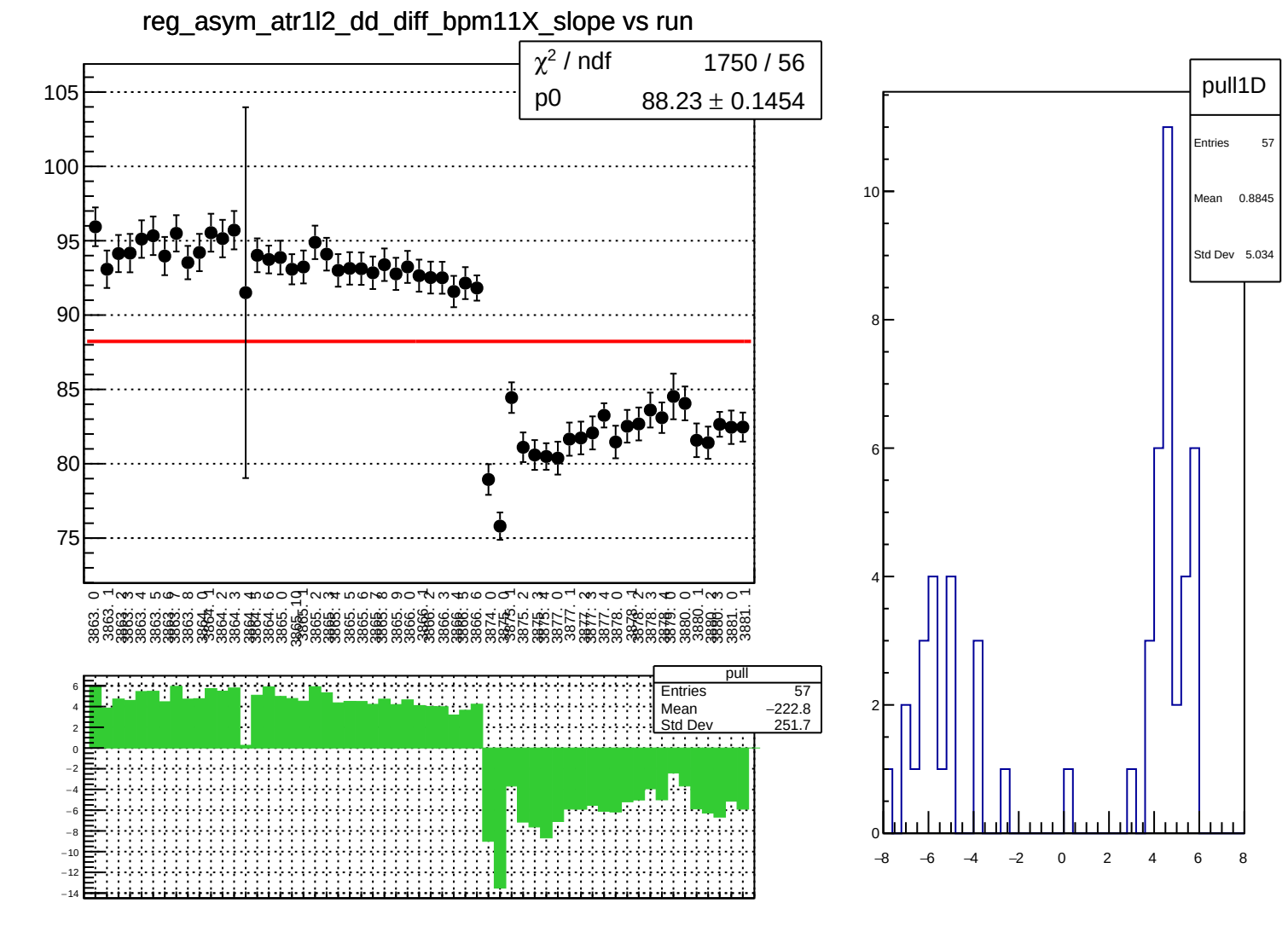

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 147.2 / 56
p0 −4.601 ± 0.4727
pull
Entries 57
Mean 134.9
Std Dev 109.2

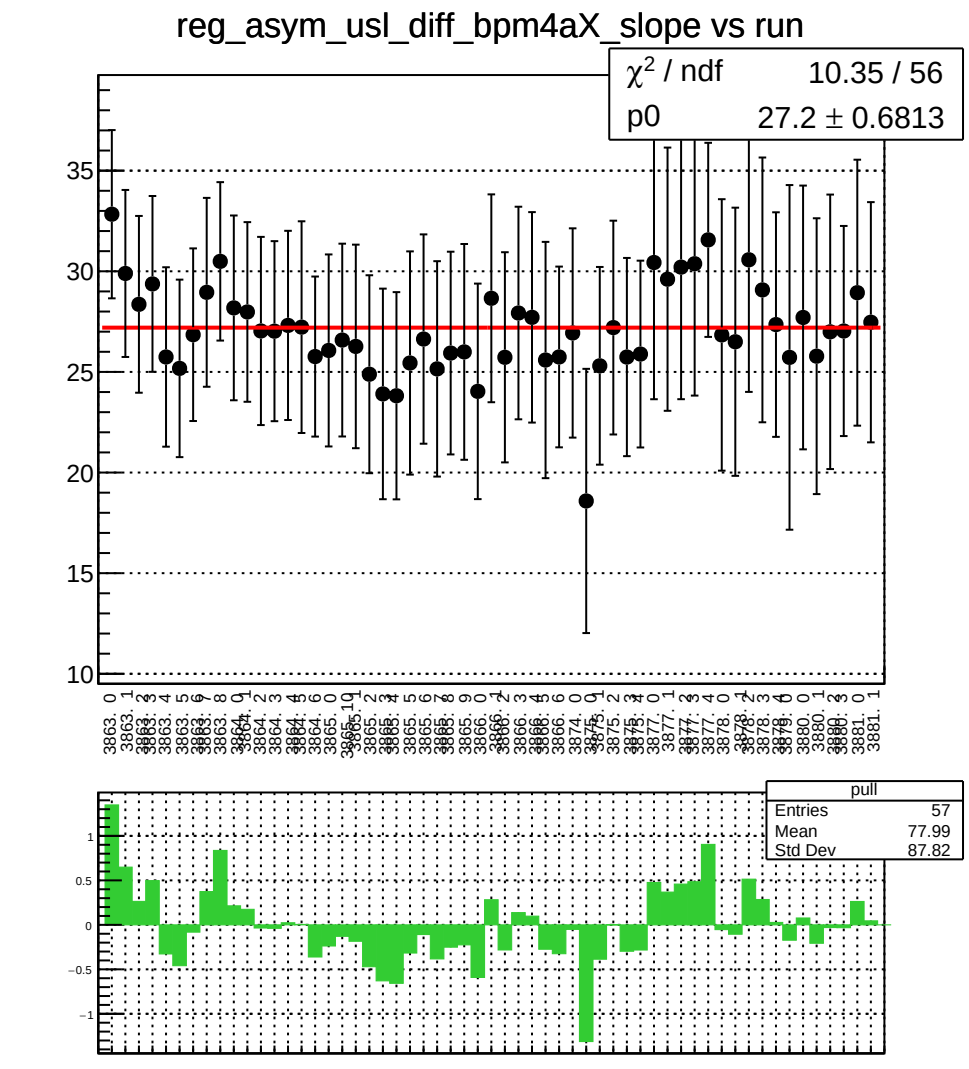

pull1D
Entries 57
Mean 0.1548
Std Dev 1.599

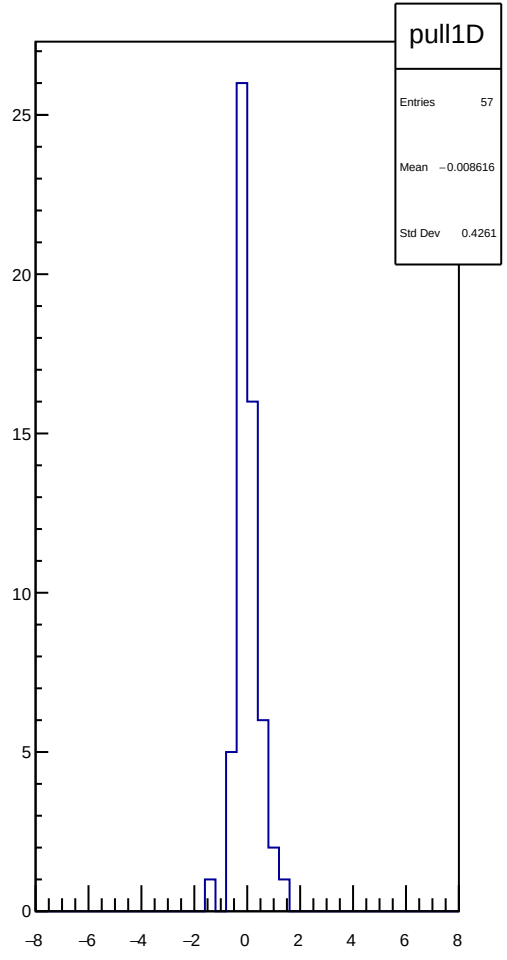

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 2518 / 56
p0 14.01 ± 0.09506
pull
Entries 57
Mean −45.73
Std Dev 73.38
pull1D
Entries 57
Mean 0.7415
Std Dev 5.656

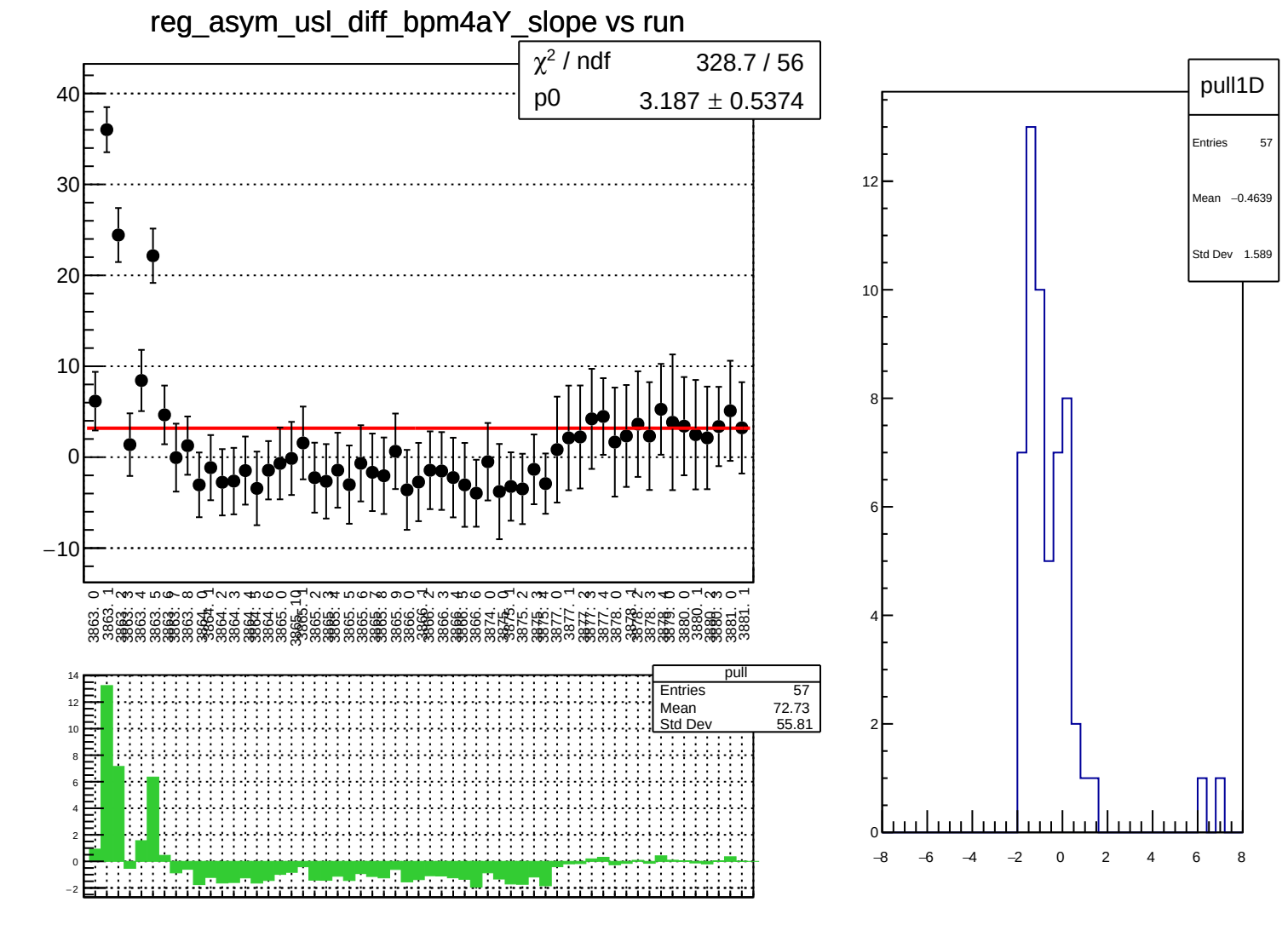

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 149.7 / 56
p0 −19.29 ± 0.7849
pull
Entries 57
Mean 103.7
Std Dev 78.84

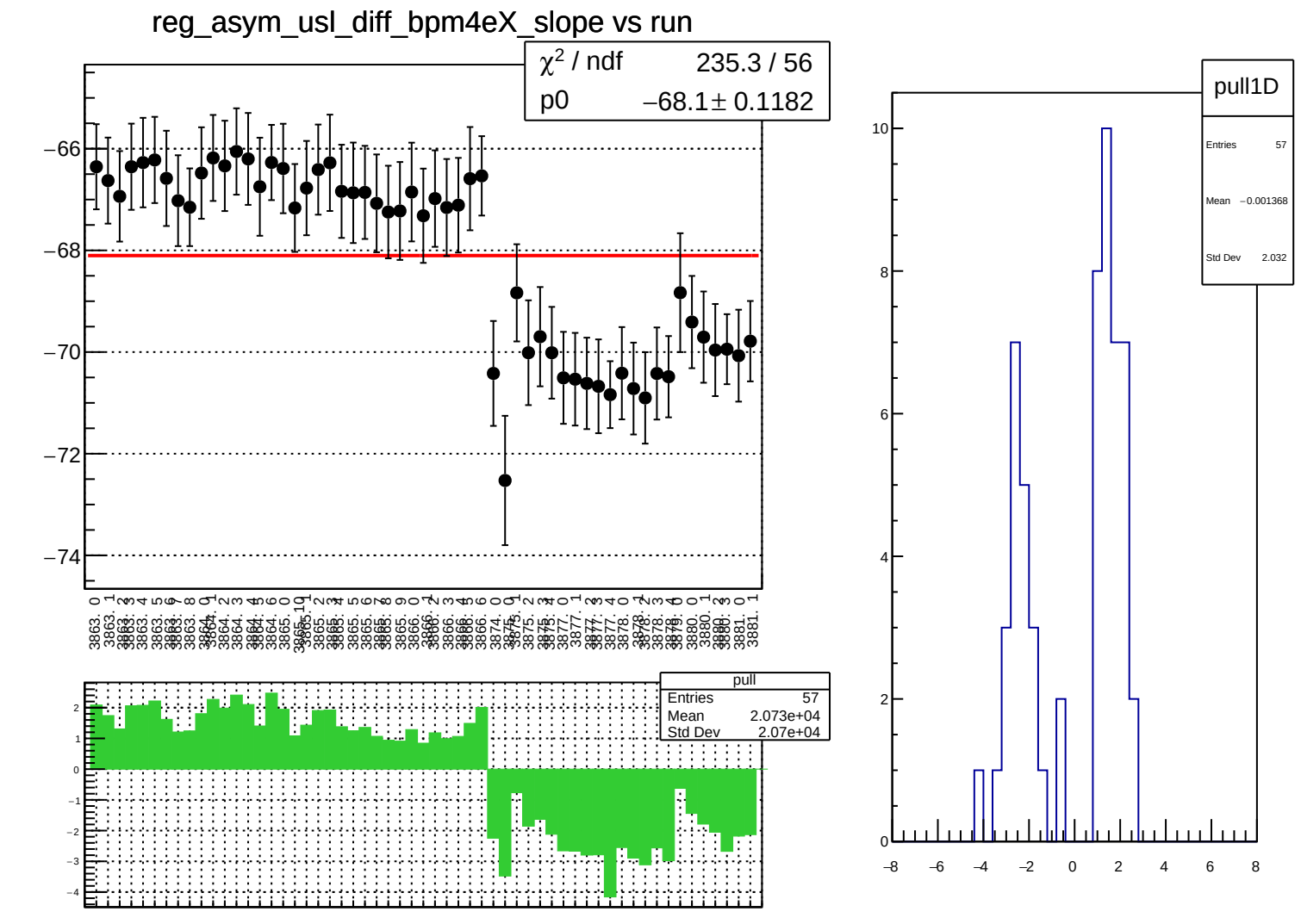

pull1D
Entries 57
Mean −0.339
Std Dev 1.183

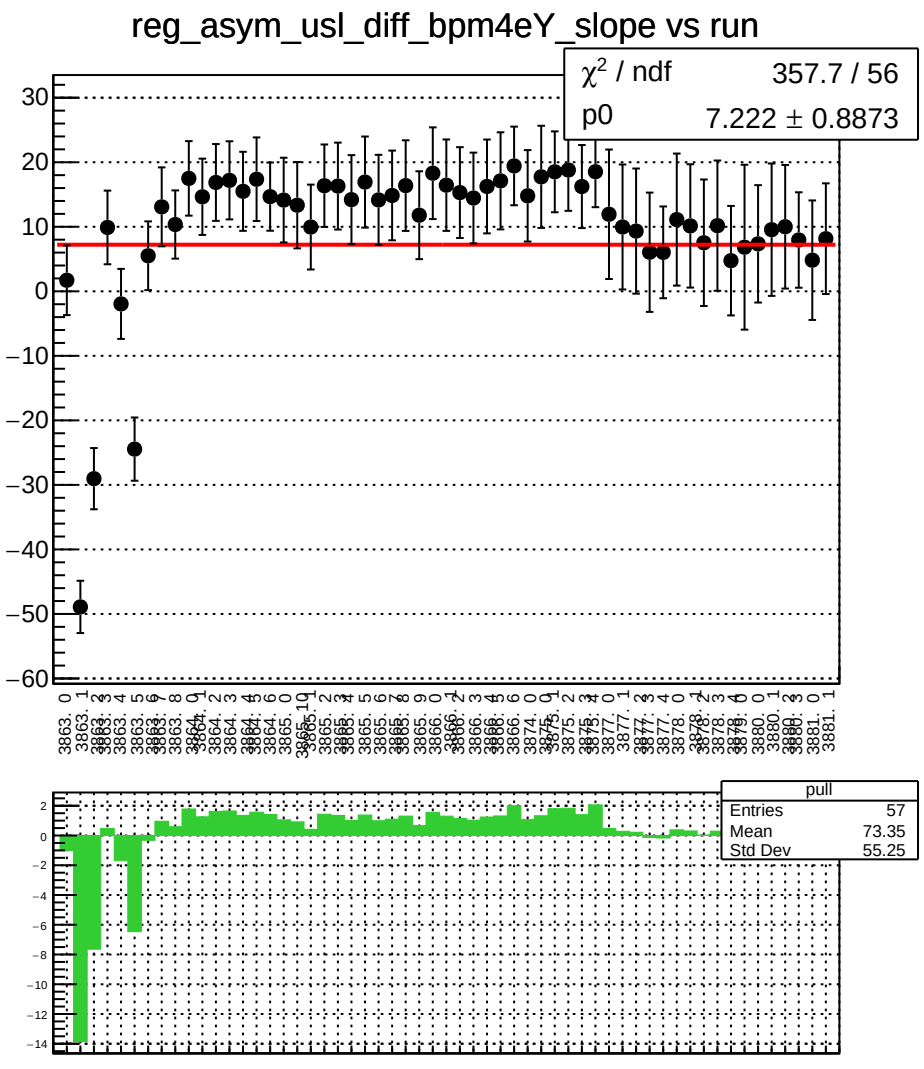

reg_asym_atr1l2_dd_diff_bpm11X_slope vs run
χ² / ndf 1750 / 56
p0 88.23 ± 0.1454
pull
Entries 57
Mean −222.8
Std Dev 251.7
pull1D
Entries 57
Mean 0.8845
Std Dev 5.034

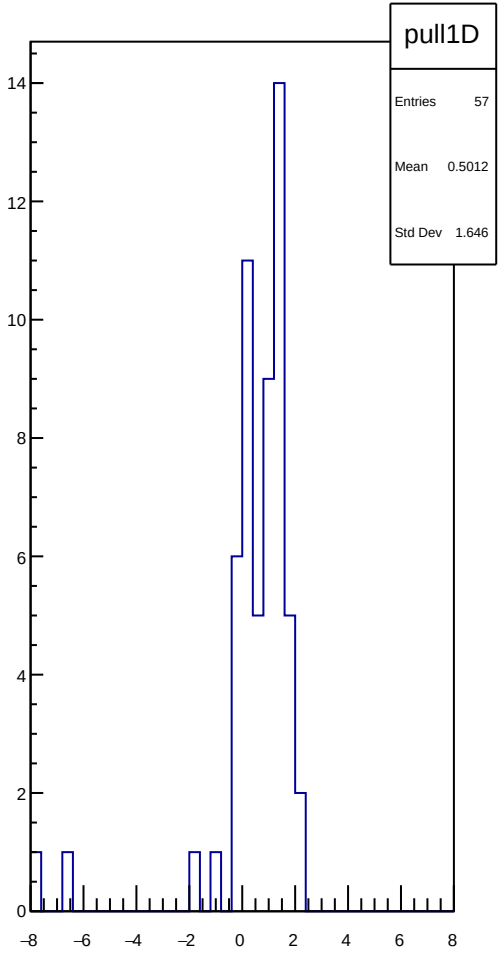

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 10.35 / 56
p0 27.2 ± 0.6813
pull
Entries 57
Mean 77.99
Std Dev 87.82

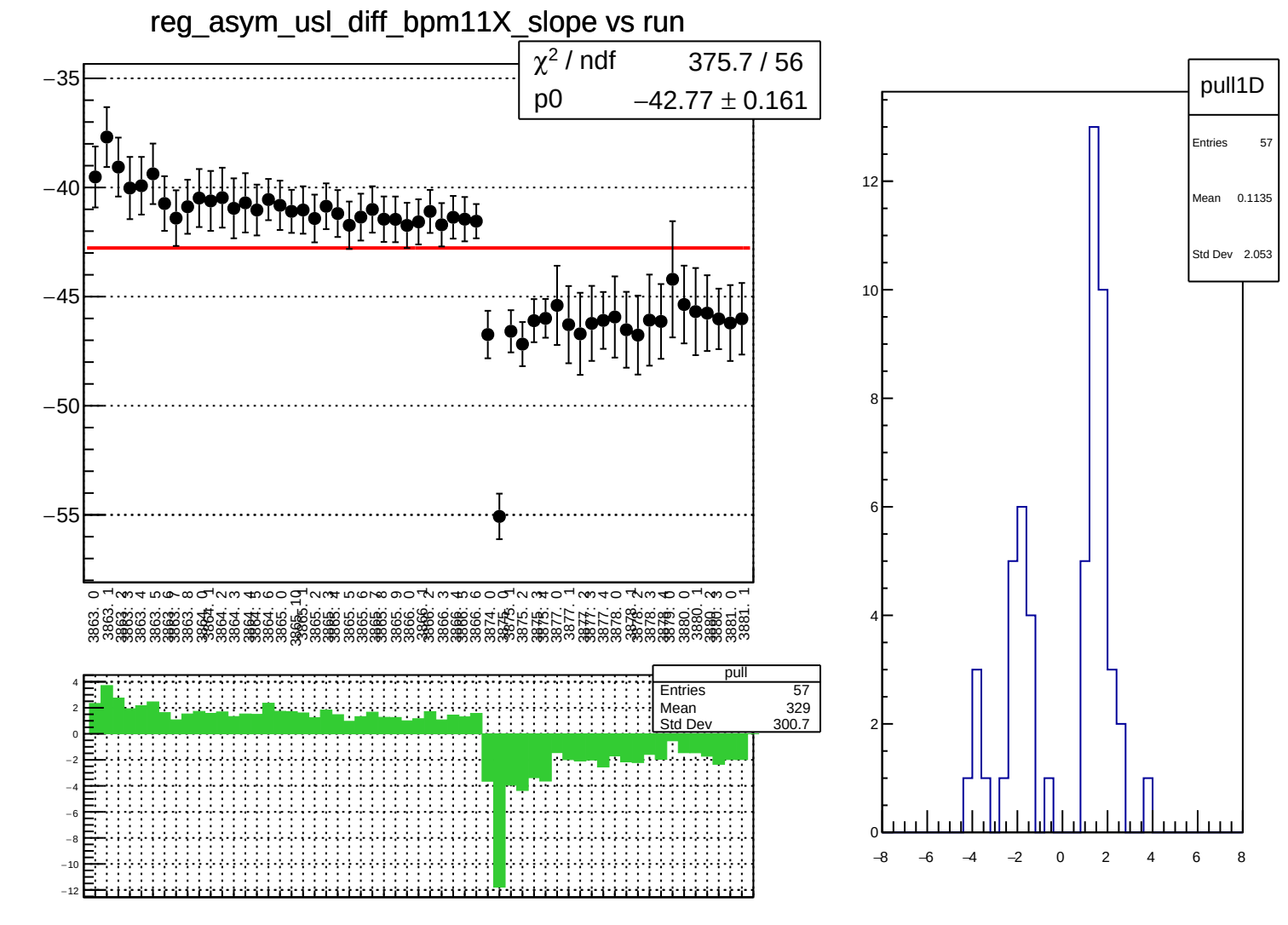

pull1D
Entries 57
Mean −0.008616
Std Dev 0.4261

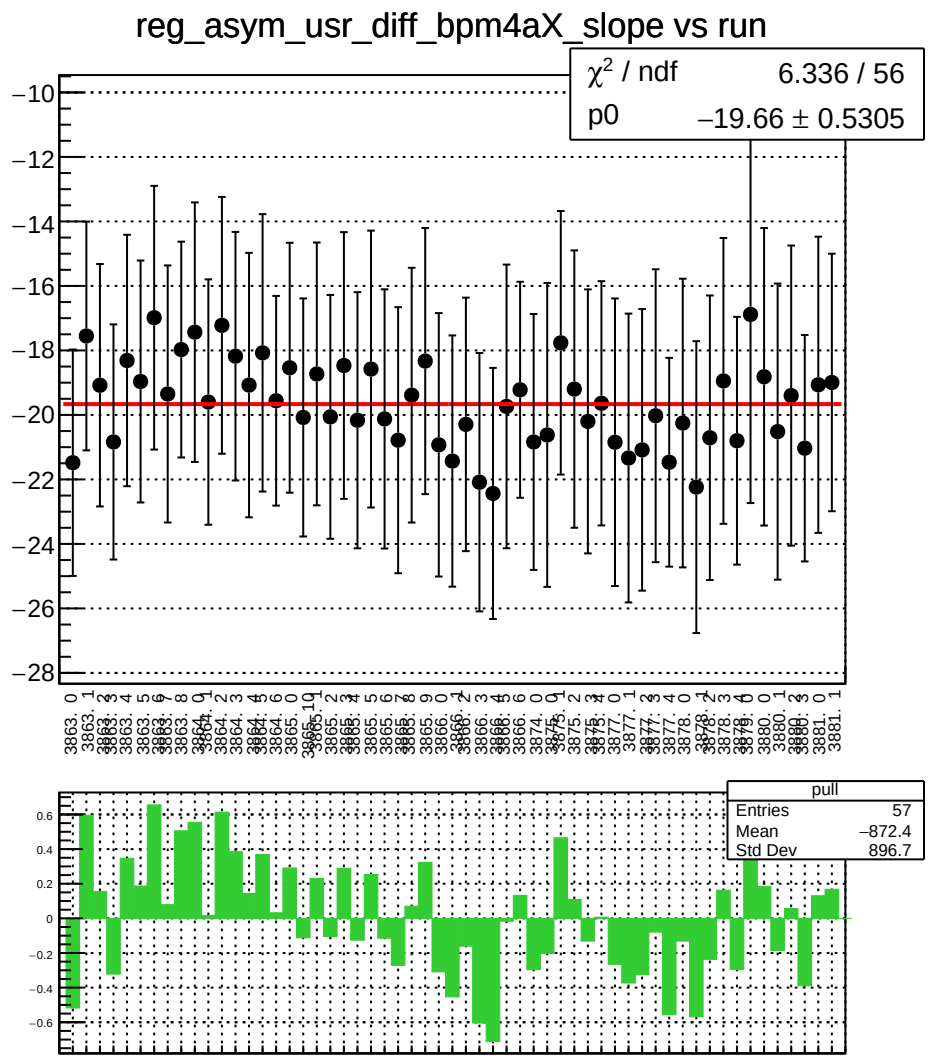

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 328.7 / 56
p0 3.187 ± 0.5374
pull
Entries 57
Mean 72.73
Std Dev 55.81
pull1D
Entries 57
Mean −0.4639
Std Dev 1.589

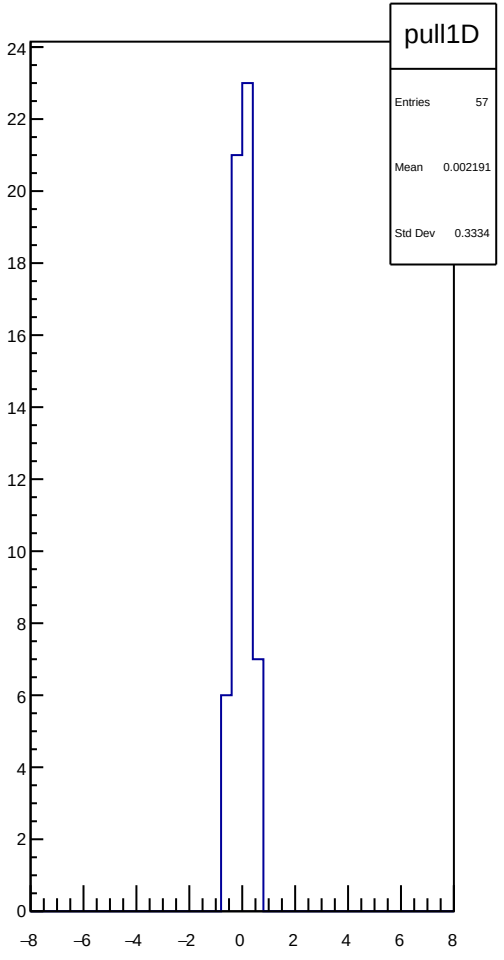

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 235.3 / 56
p0 −68.1 ± 0.1182
−66
−68
−70
−72
−74
pull
Entries 57
Mean 2.073e+04
Std Dev 2.07e+04
pull1D
Entries 57
Mean −0.001368
Std Dev 2.032

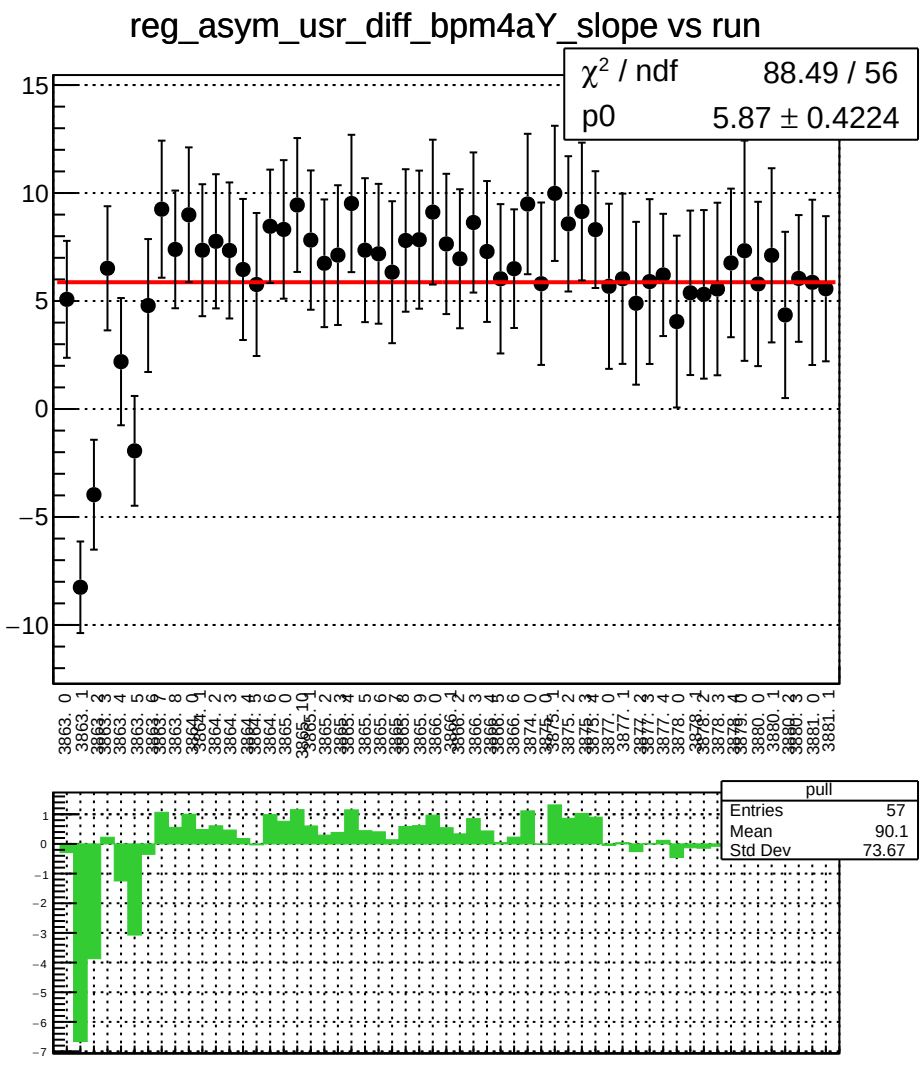

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 357.7 / 56
p0 7.222 ± 0.8873
pull
Entries 57
Mean 73.35
Std Dev 55.25

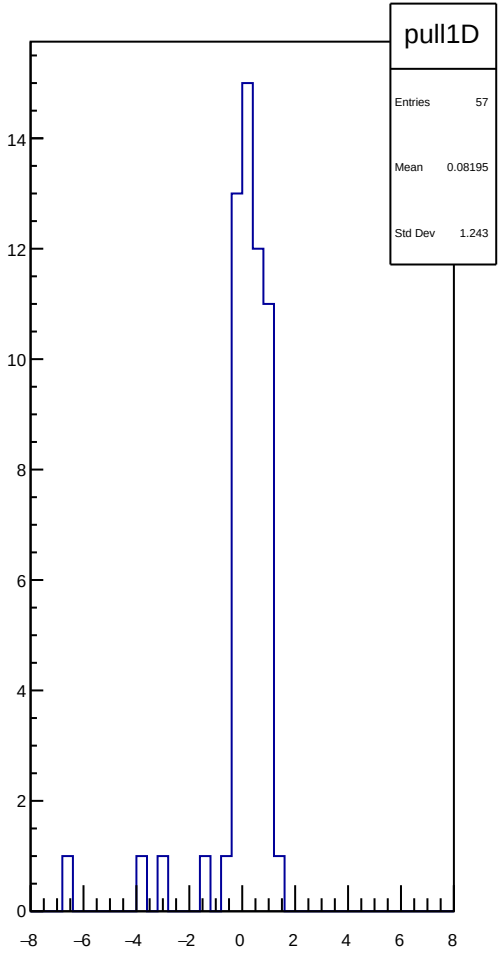

pull1D
Entries 57
Mean 0.5012
Std Dev 1.646

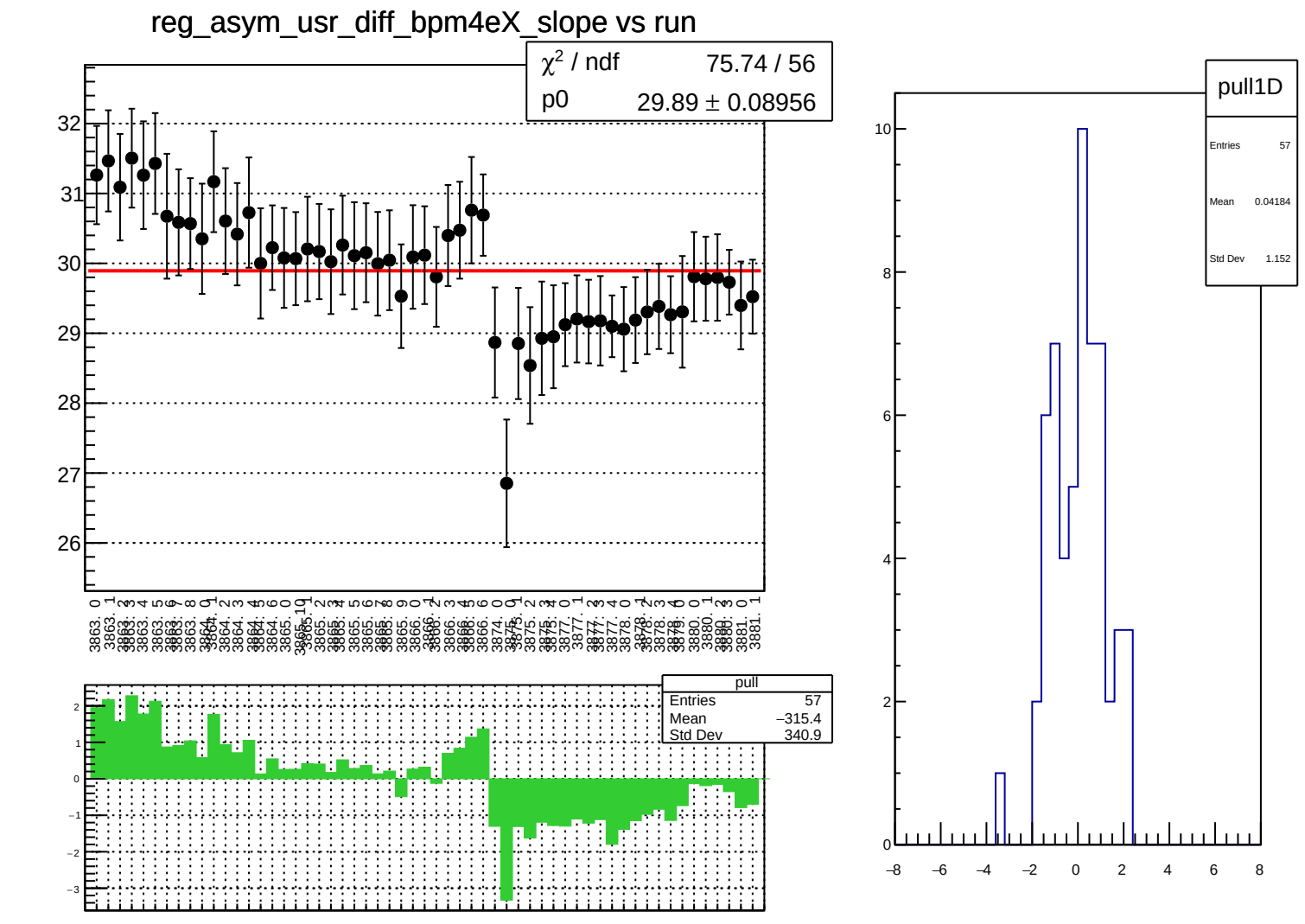

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 375.7 / 56
p0 −42.77 ± 0.161
pull
Entries 57
Mean 329
Std Dev 300.7
pull1D
Entries 57
Mean 0.1135
Std Dev 2.053

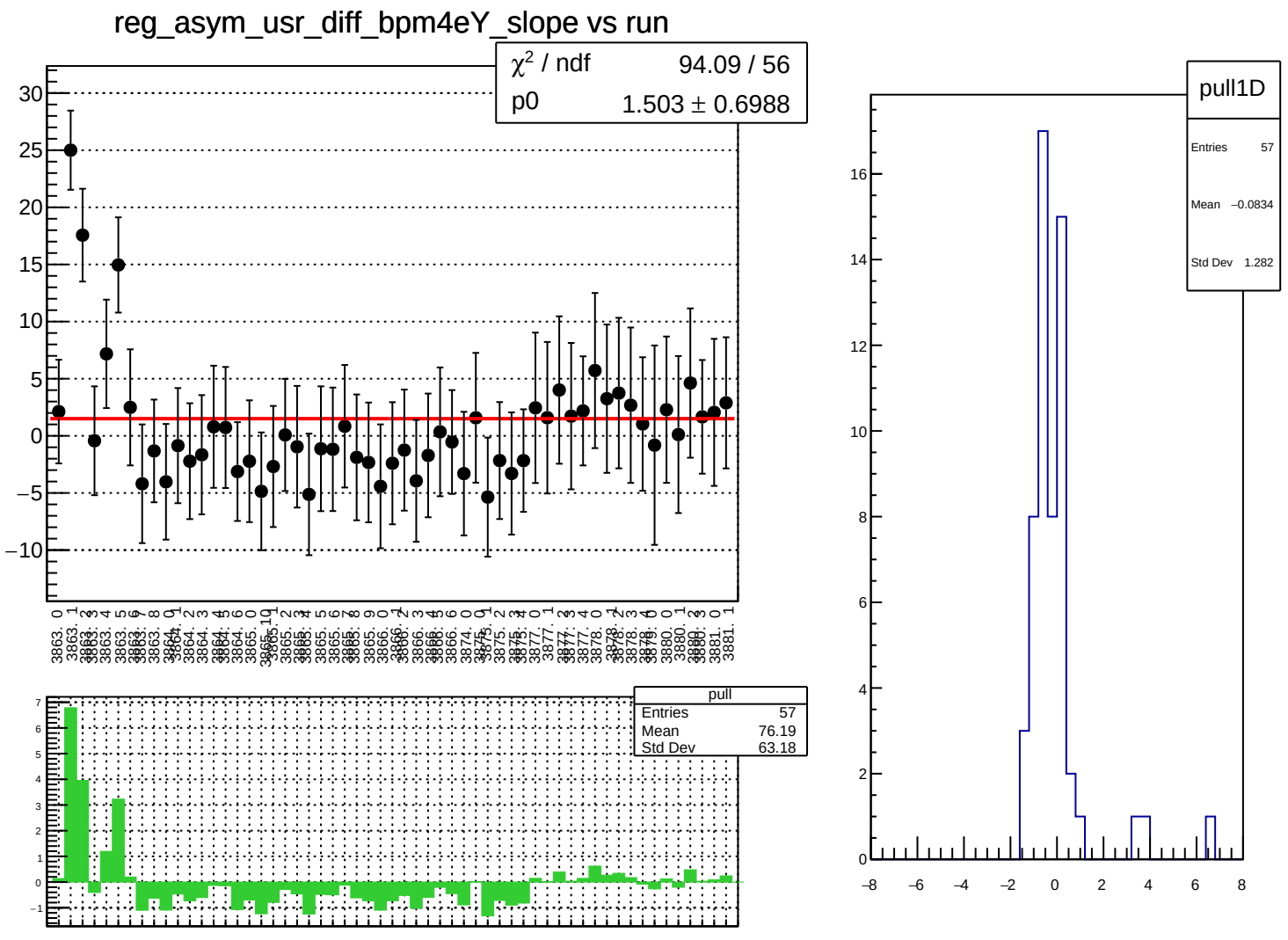

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 6.336 / 56
p0 −19.66 ± 0.5305
pull
Entries 57
Mean −872.4
Std Dev 896.7

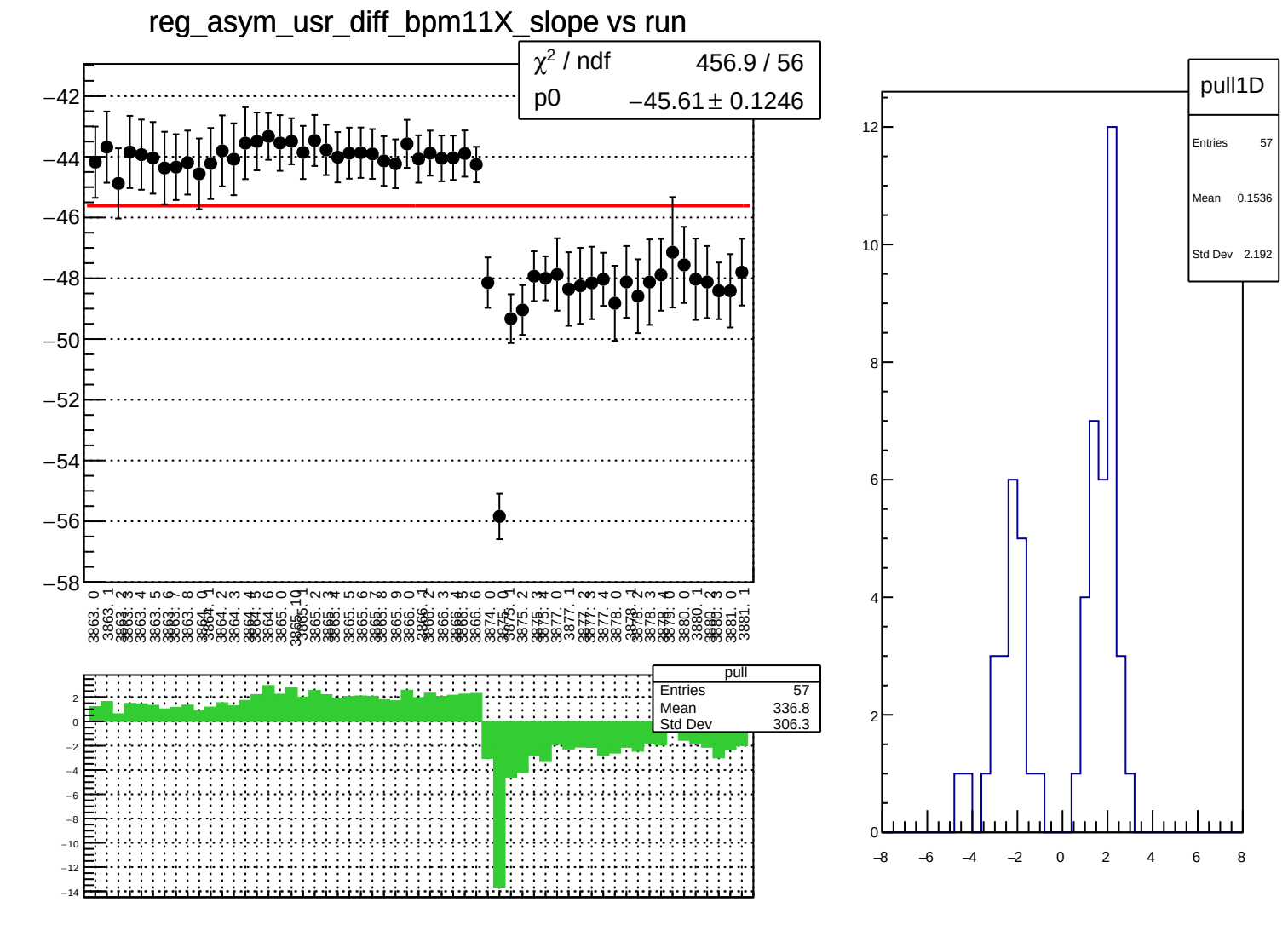

pull1D
Entries 57
Mean 0.002191
Std Dev 0.3334

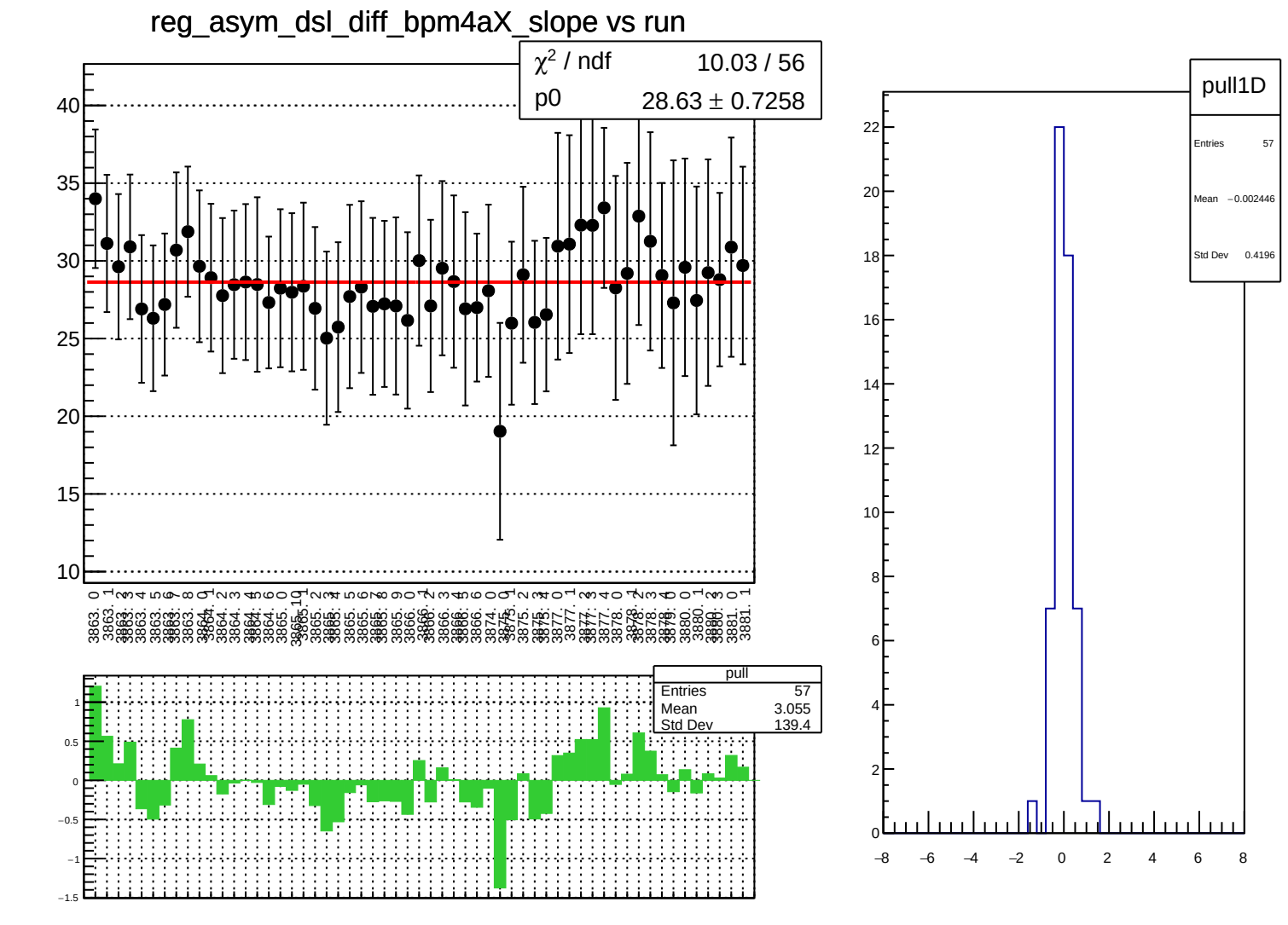

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 88.49 / 56
p0 5.87 ± 0.4224
pull
Entries 57
Mean 90.1
Std Dev 73.67

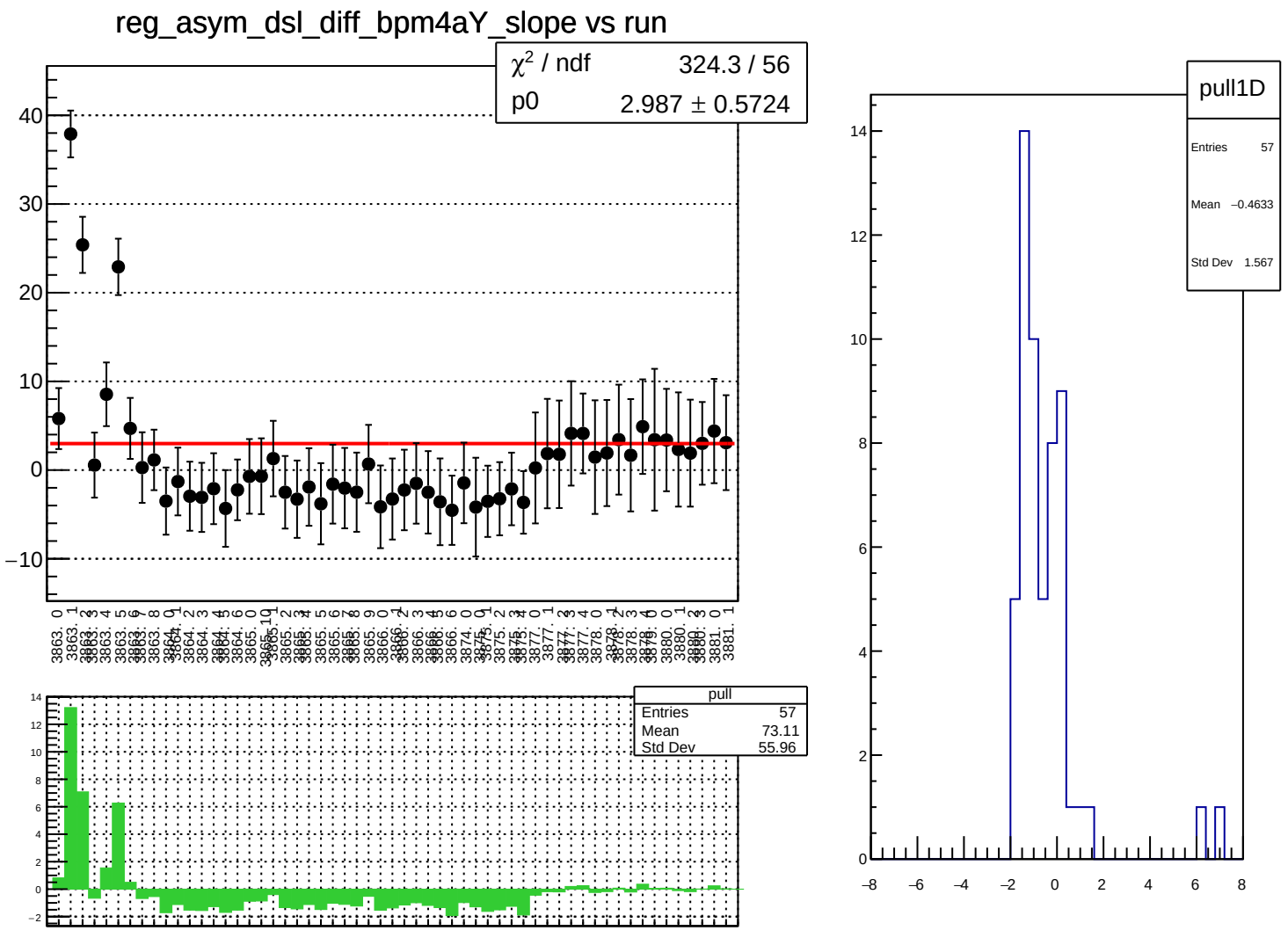

pull1D
Entries 57
Mean 0.08195
Std Dev 1.243

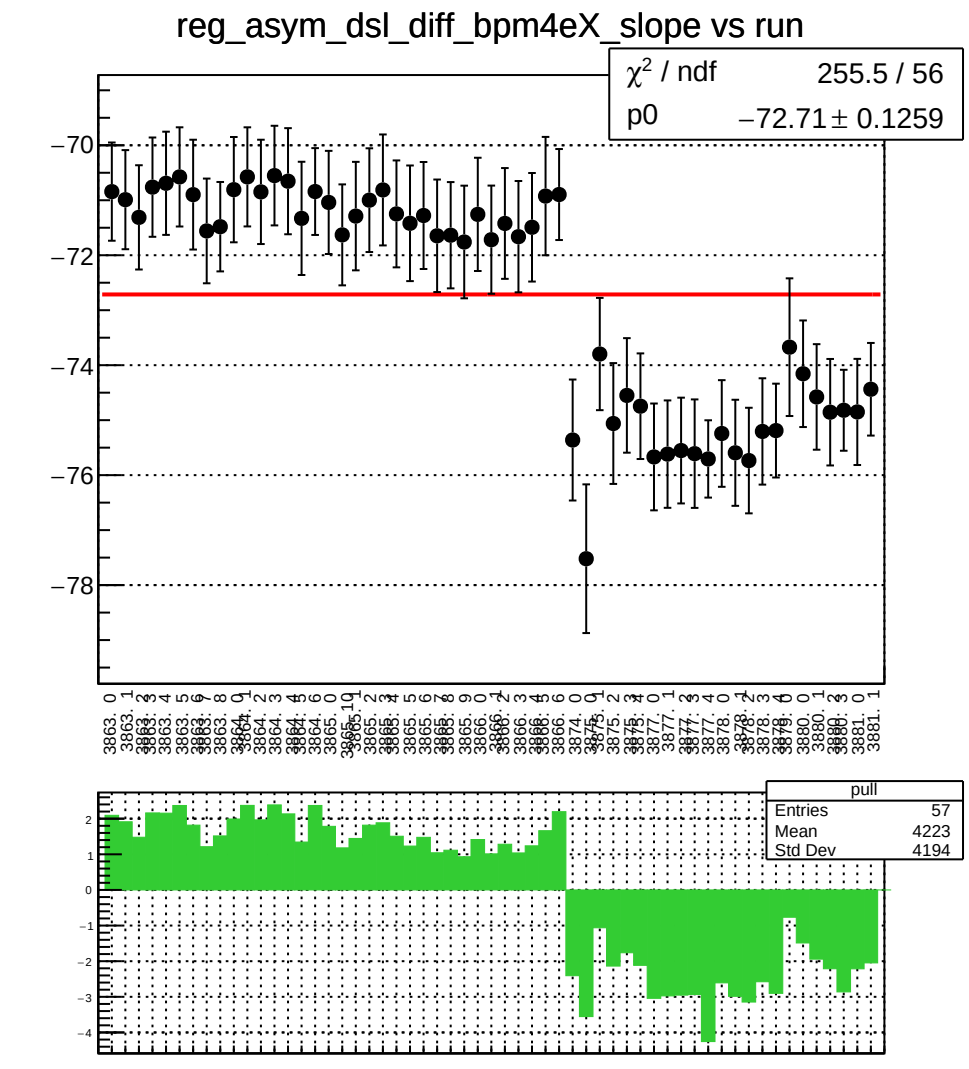

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 75.74 / 56
p0 29.89 ± 0.08956
pull
Entries 57
Mean −315.4
Std Dev 340.9
pull1D
Entries 57
Mean 0.04184
Std Dev 1.152

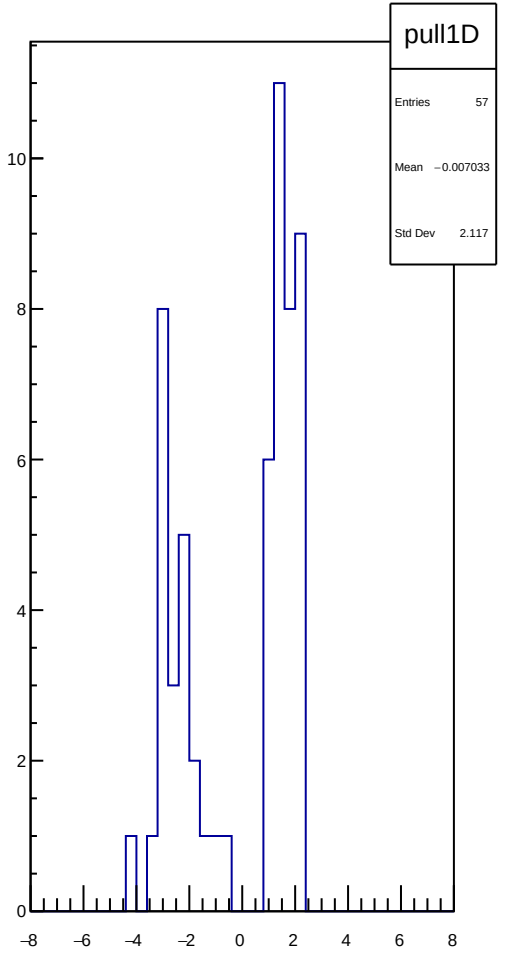

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 94.09 / 56
p0 1.503 ± 0.6988
pull
Entries 57
Mean 76.19
Std Dev 63.18
pull1D
Entries 57
Mean −0.0834
Std Dev 1.282

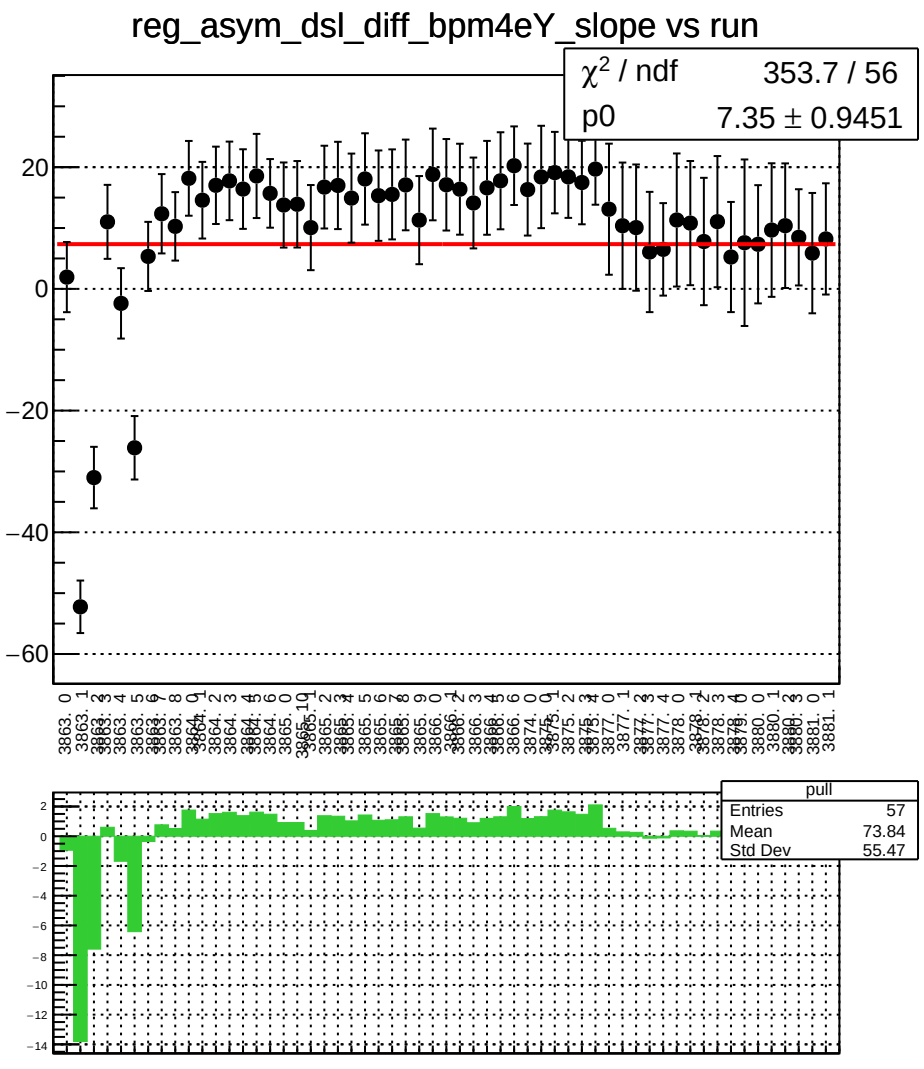

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 456.9 / 56
p0 −45.61 ± 0.1246
pull
Entries 57
Mean 336.8
Std Dev 306.3
pull1D
Entries 57
Mean 0.1536
Std Dev 2.192

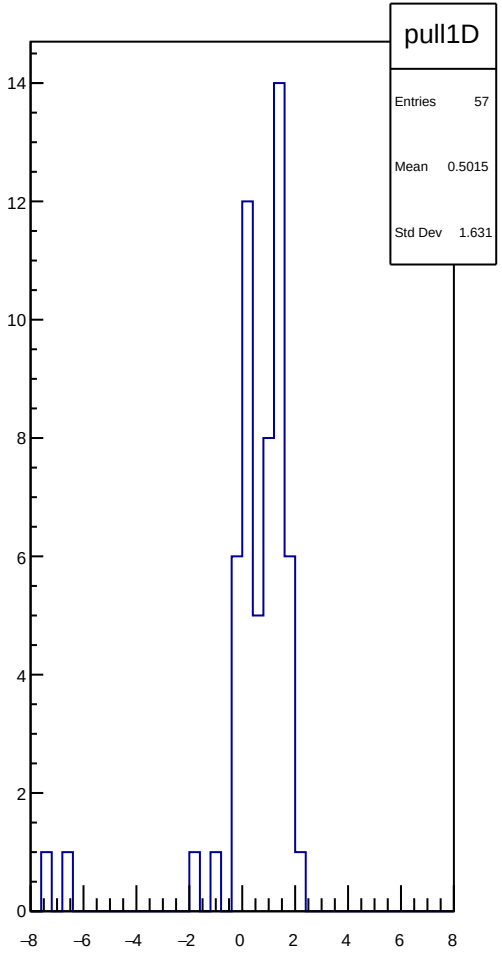

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 10.03 / 56
p0 28.63 ± 0.7258
pull
Entries 57
Mean 3.055
Std Dev 139.4
pull1D
Entries 57
Mean −0.002446
Std Dev 0.4196

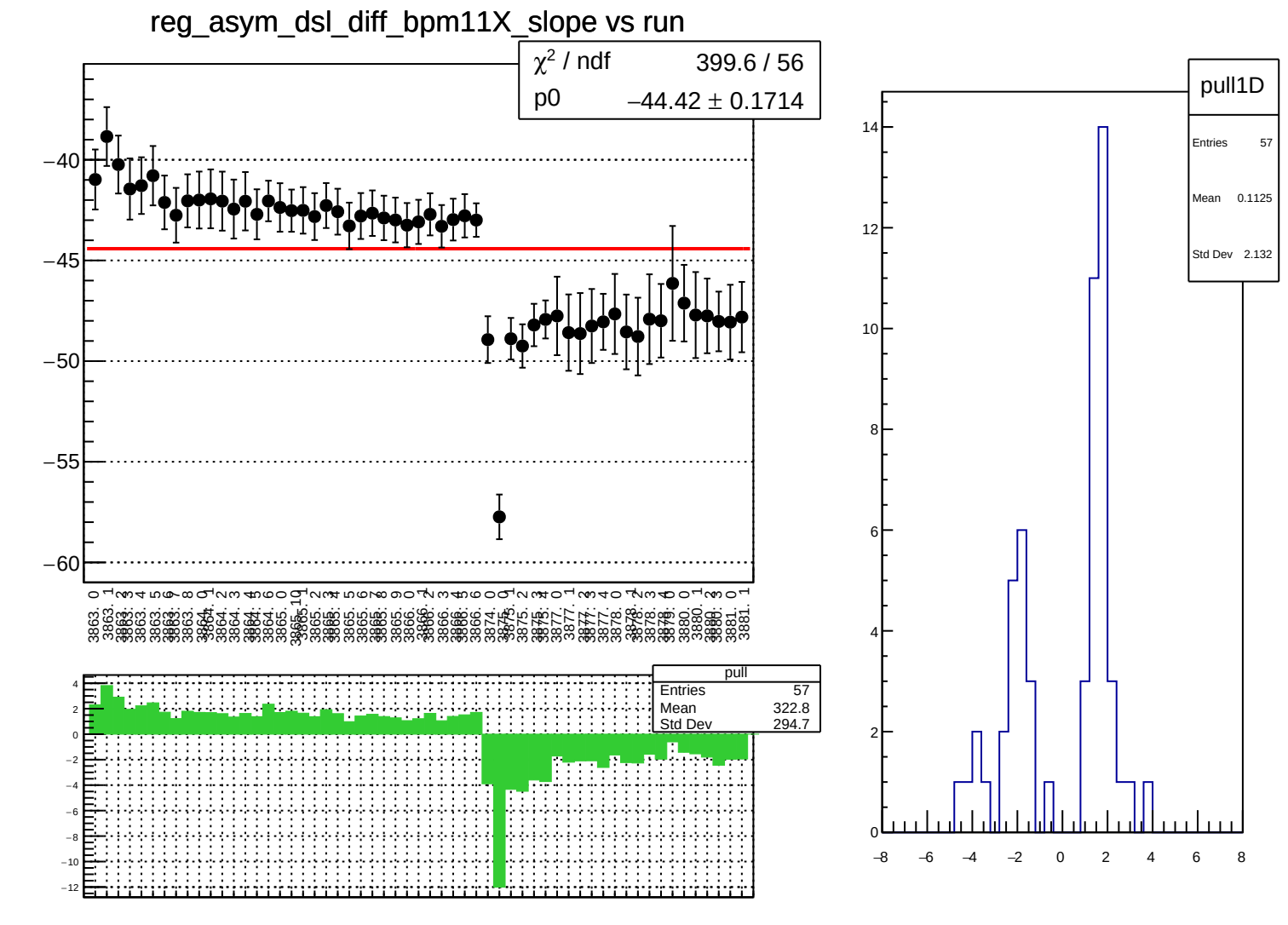

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 324.3 / 56
p0 2.987 ± 0.5724
pull
Entries 57
Mean 73.11
Std Dev 55.96
pull1D
Entries 57
Mean −0.4633
Std Dev 1.567

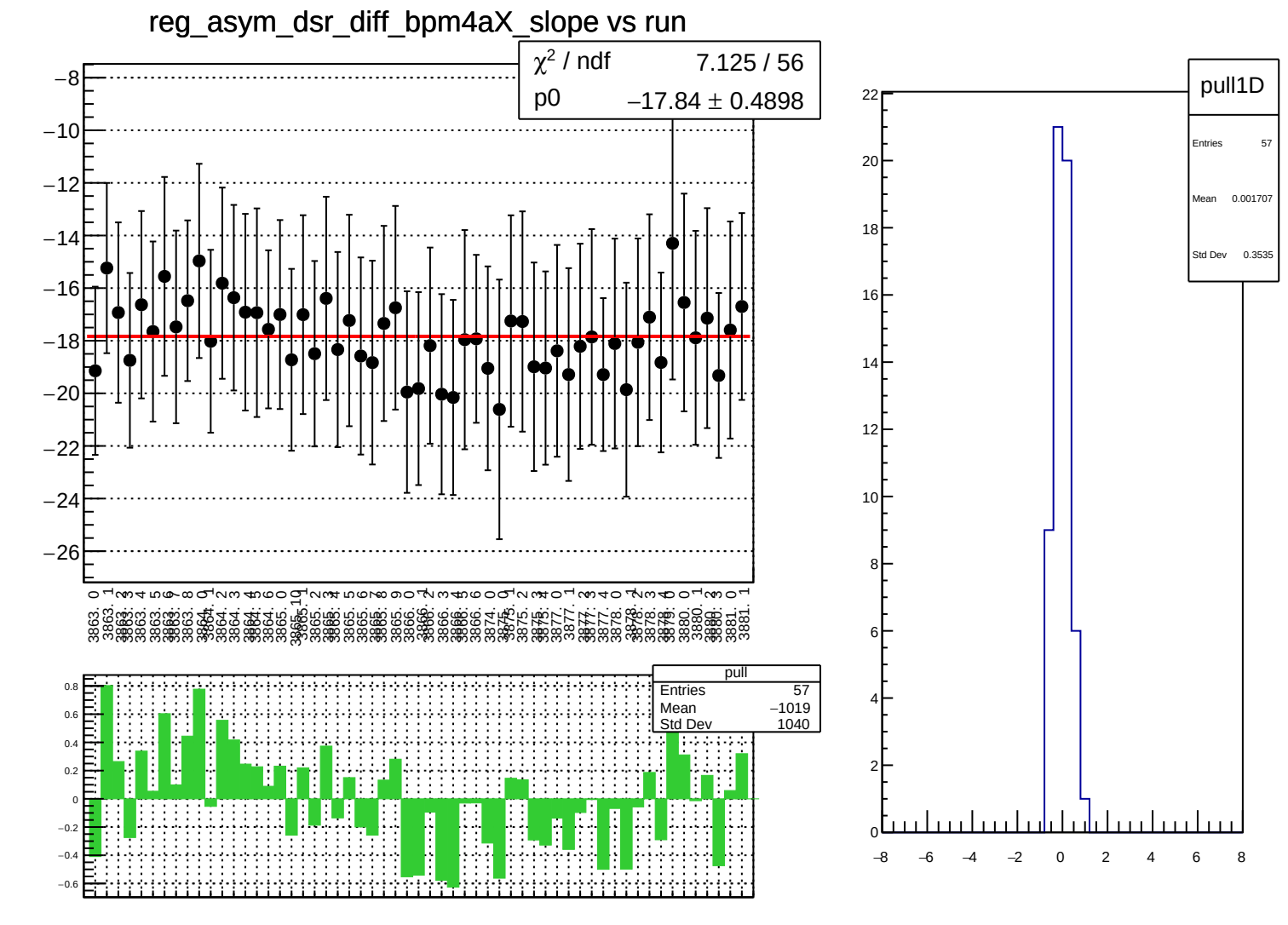

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 255.5 / 56
p0 −72.71 ± 0.1259
−70
−72
−74
−76
−78
pull
Entries 57
Mean 4223
Std Dev 4194
2
1
0
−1
−2
−3
−4

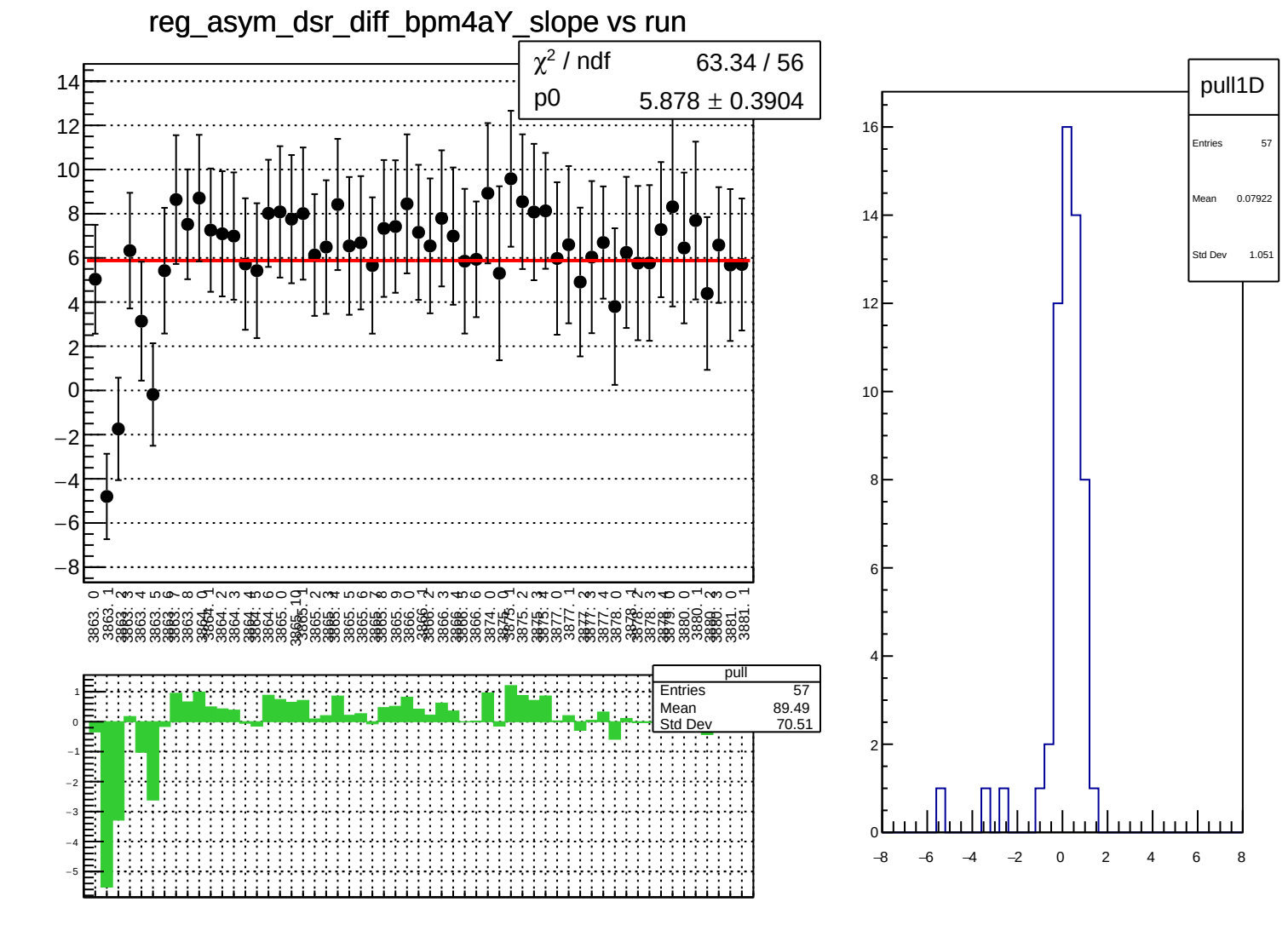

pull1D
Entries 57
Mean −0.007033
Std Dev 2.117
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 353.7 / 56
p0 7.35 ± 0.9451
pull
Entries 57
Mean 73.84
Std Dev 55.47

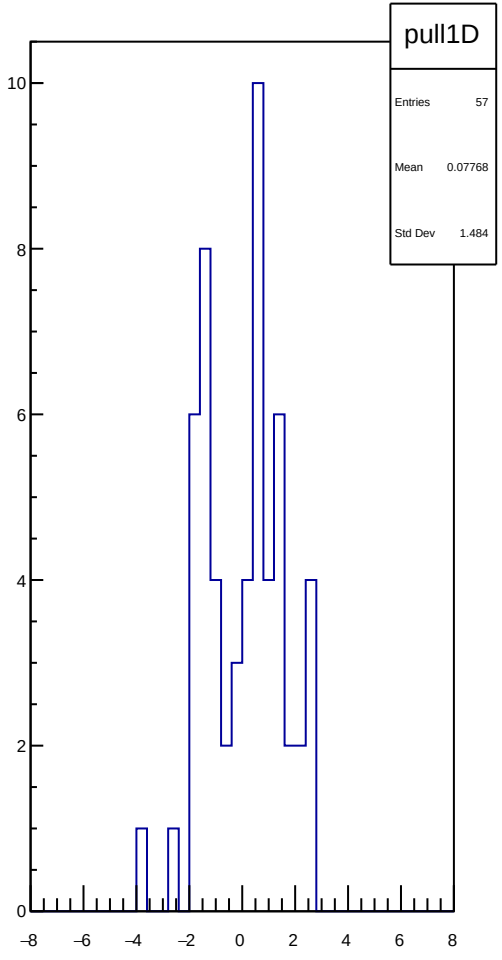

pull1D
Entries 57
Mean 0.5015
Std Dev 1.631

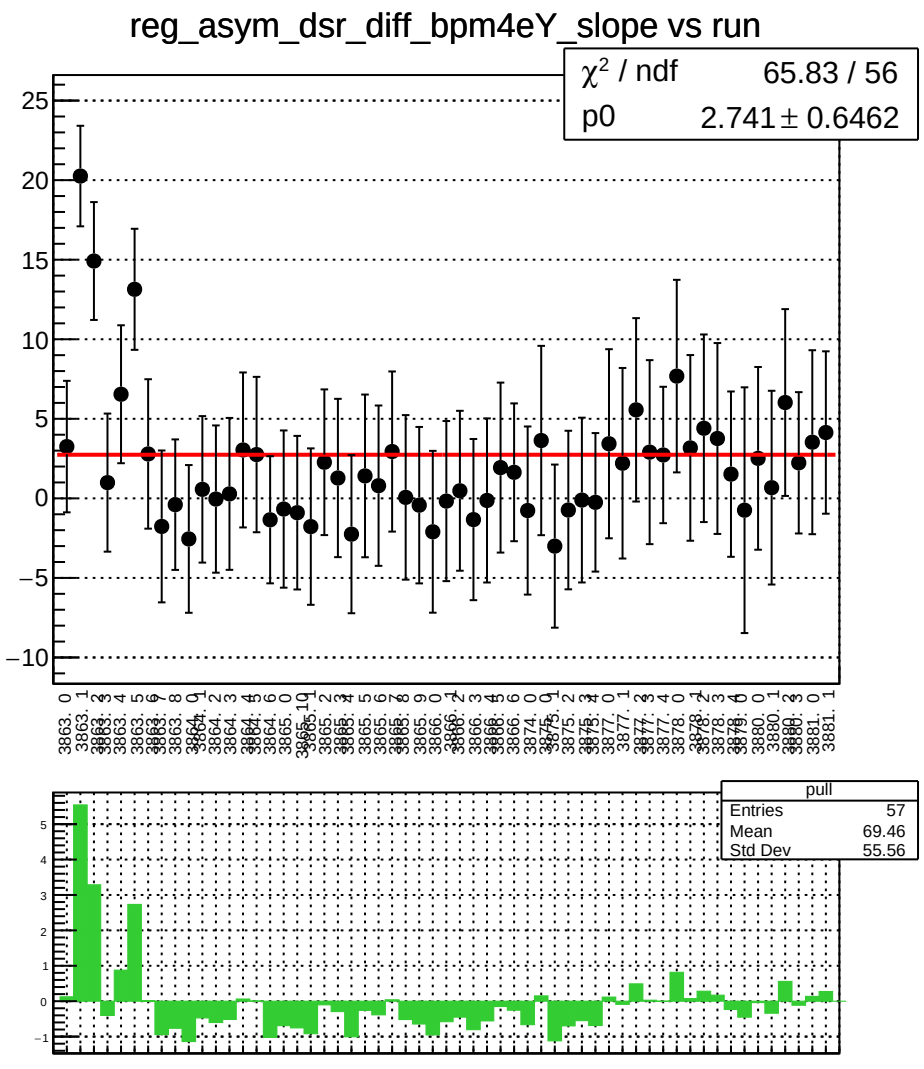

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 399.6 / 56
p0 −44.42 ± 0.1714
pull
Entries 57
Mean 322.8
Std Dev 294.7
pull1D
Entries 57
Mean 0.1125
Std Dev 2.132

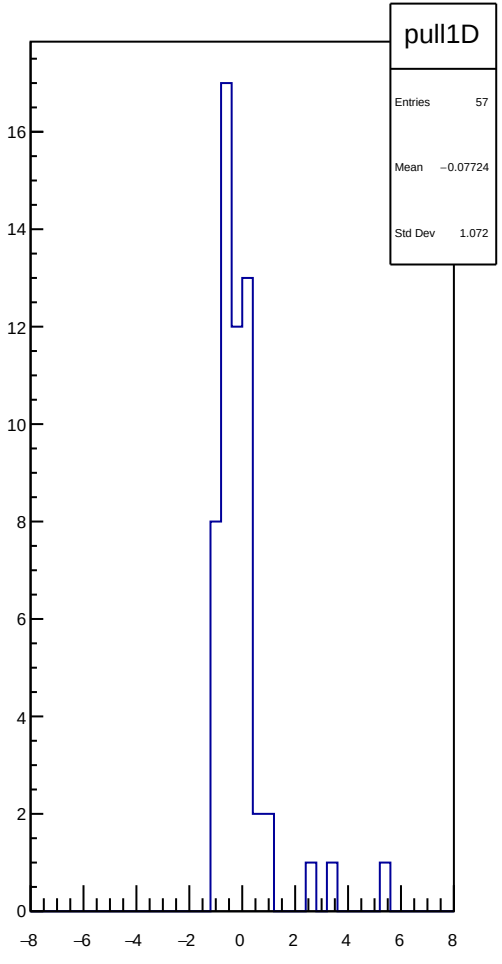

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 7.125 / 56
p0 −17.84 ± 0.4898
pull
Entries 57
Mean −1019
Std Dev 1040
pull1D
Entries 57
Mean 0.001707
Std Dev 0.3535

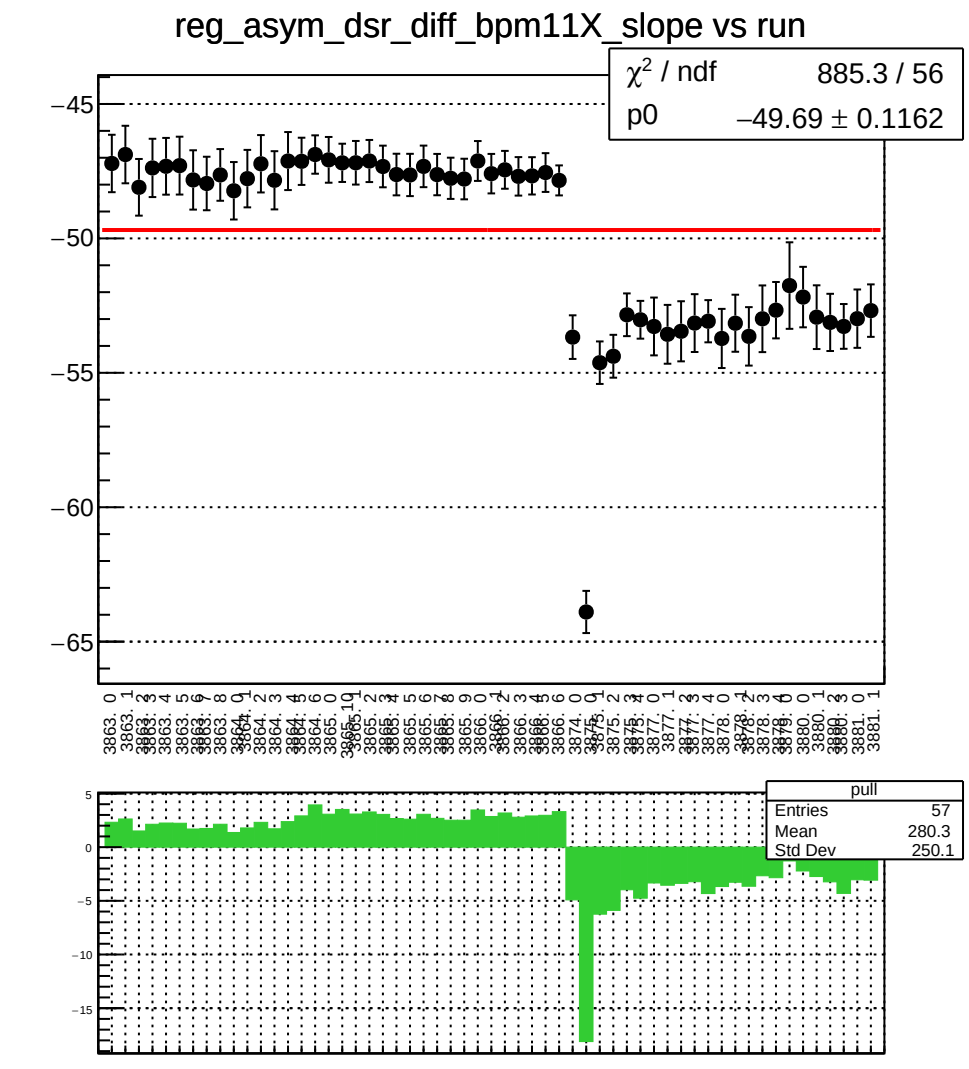

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 63.34 / 56
p0 5.878 ± 0.3904
pull
Entries 57
Mean 89.49
Std Dev 70.51
pull1D
Entries 57
Mean 0.07922
Std Dev 1.051

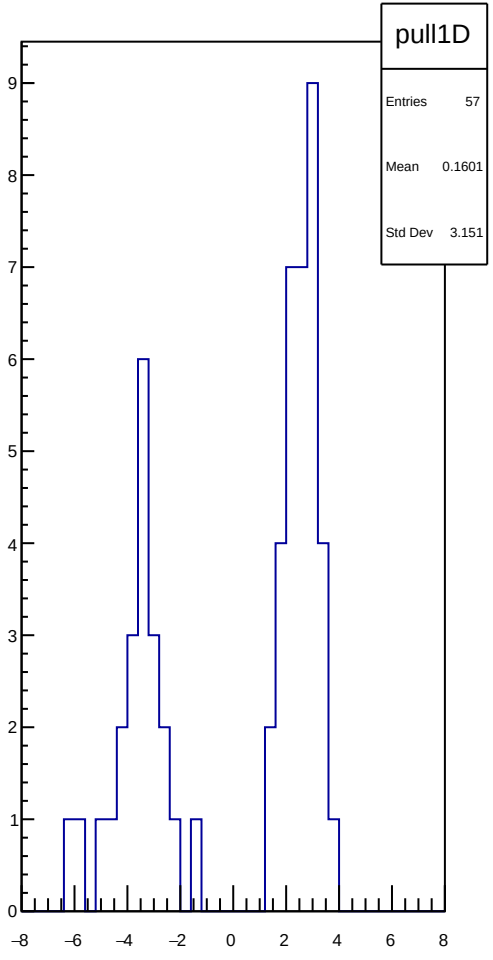
reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 125.9 / 56
p0 22.53 ± 0.08219
pull
Entries 57
Mean −226.4
Std Dev 252.8

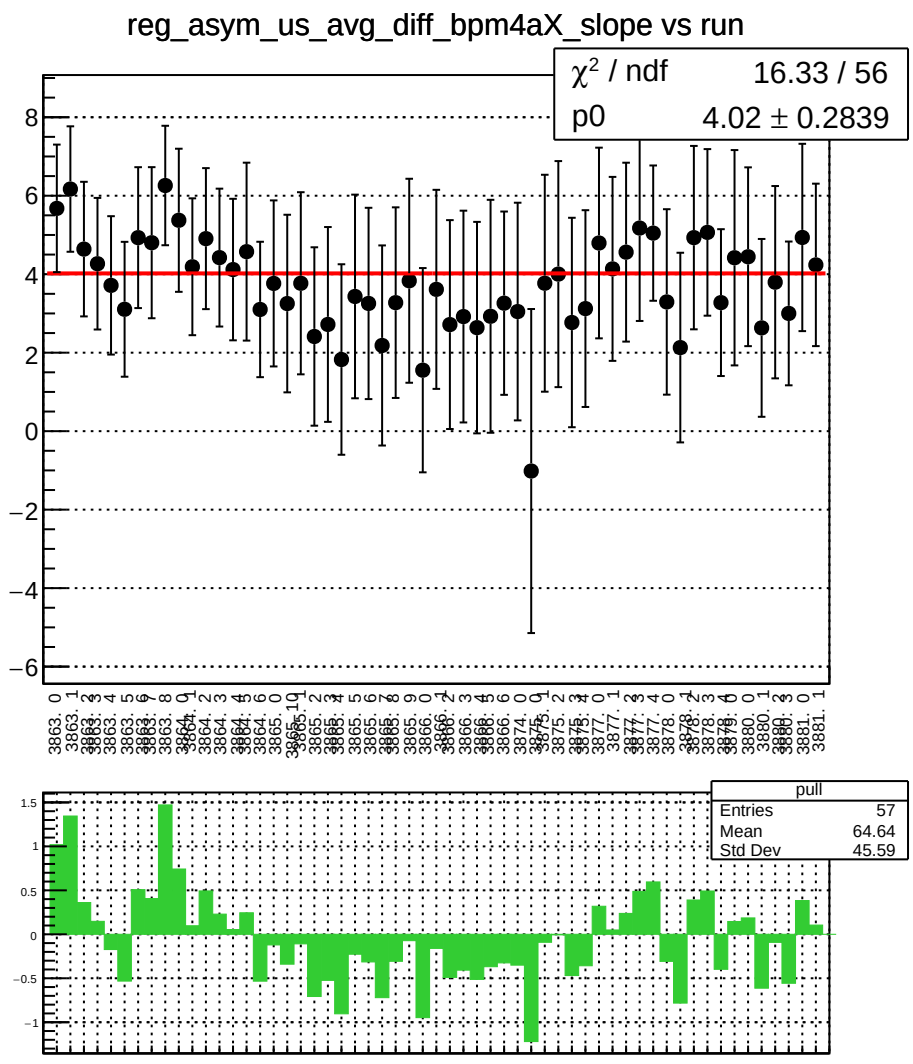

pull1D
Entries 57
Mean 0.07768
Std Dev 1.484

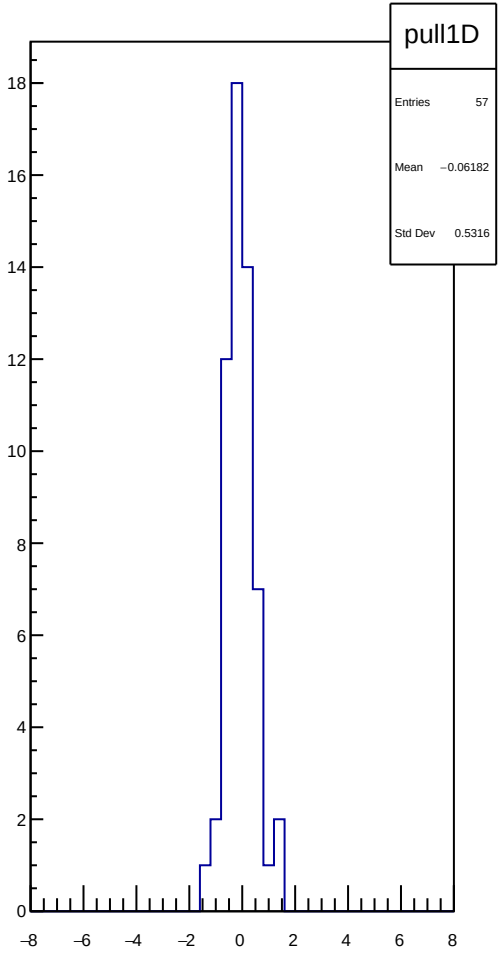

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 65.83 / 56
p0 2.741 ± 0.6462
pull
Entries 57
Mean 69.46
Std Dev 55.56

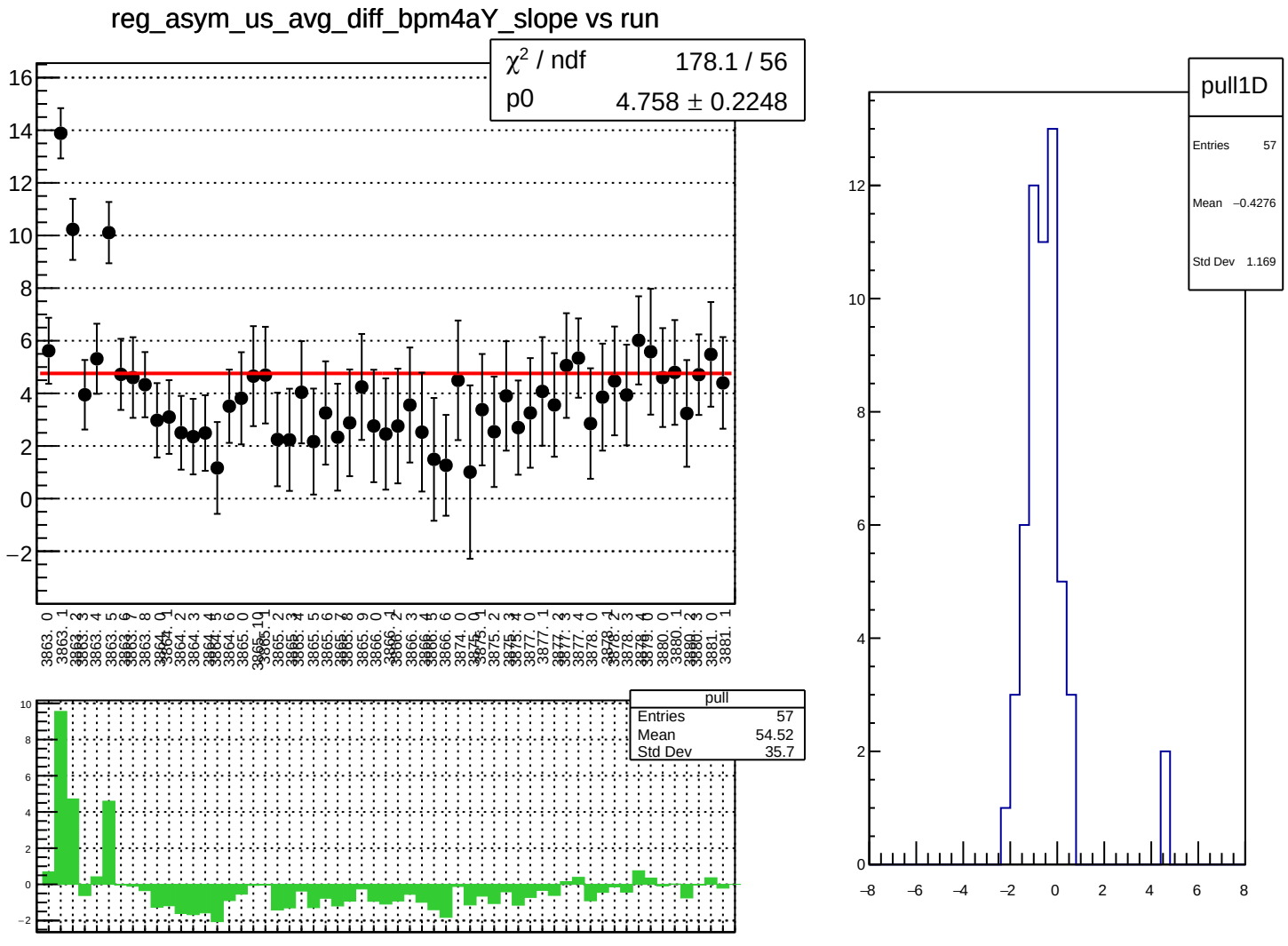

pull1D
Entries 57
Mean −0.07724
Std Dev 1.072

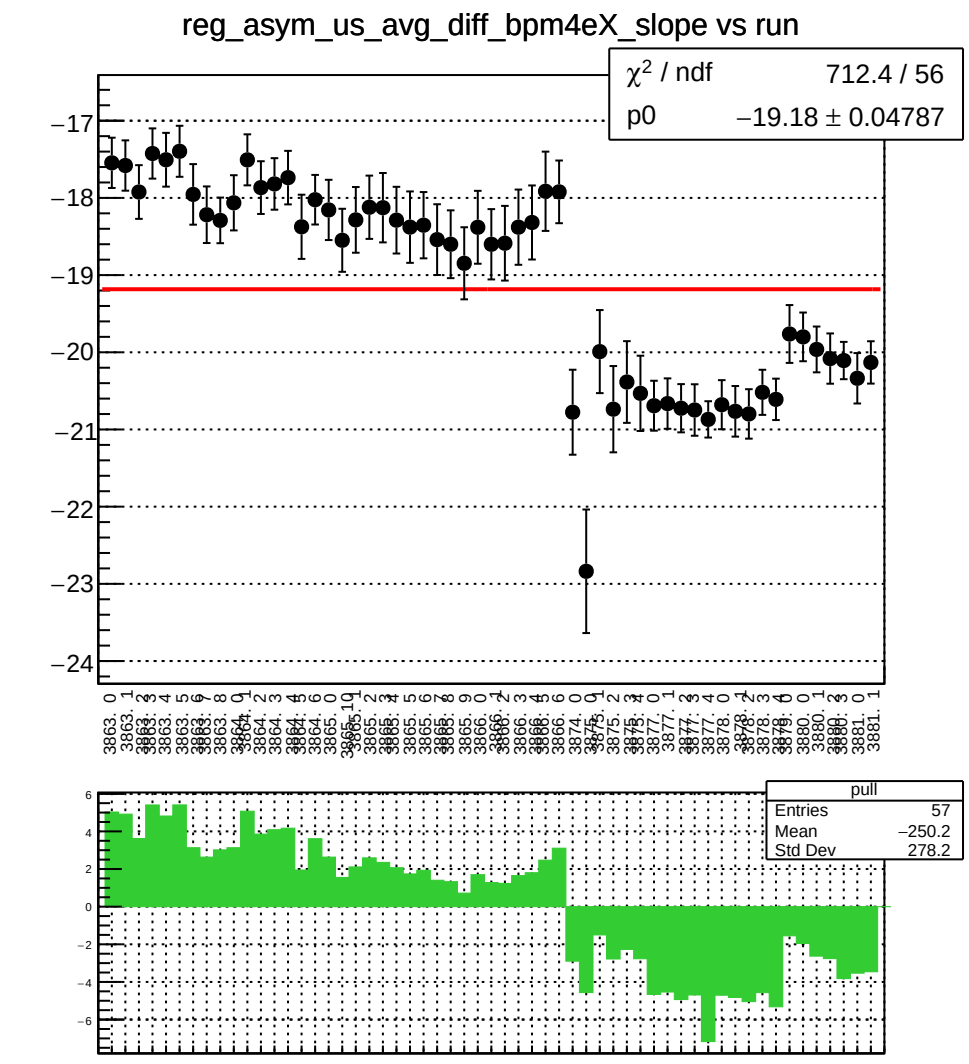

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 885.3 / 56
p0 −49.69 ± 0.1162
pull
Entries 57
Mean 280.3
Std Dev 250.1

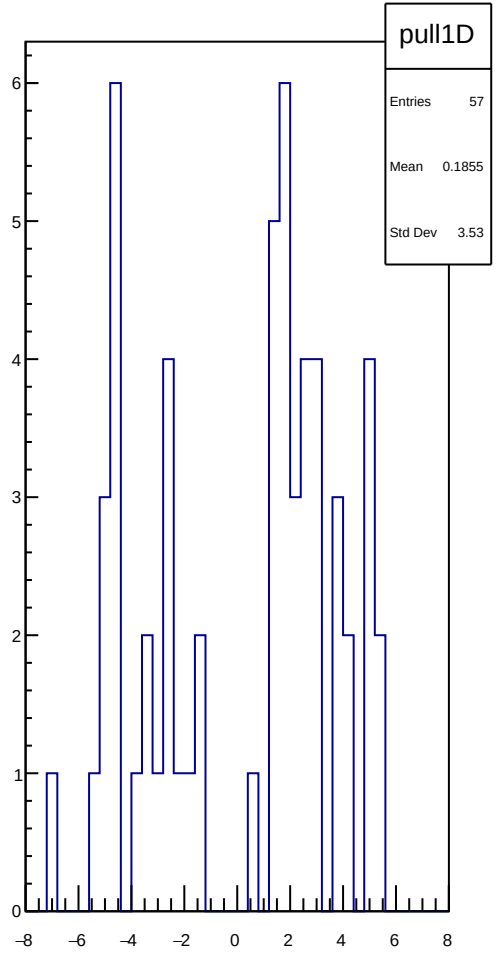

pull1D
Entries 57
Mean 0.1601
Std Dev 3.151

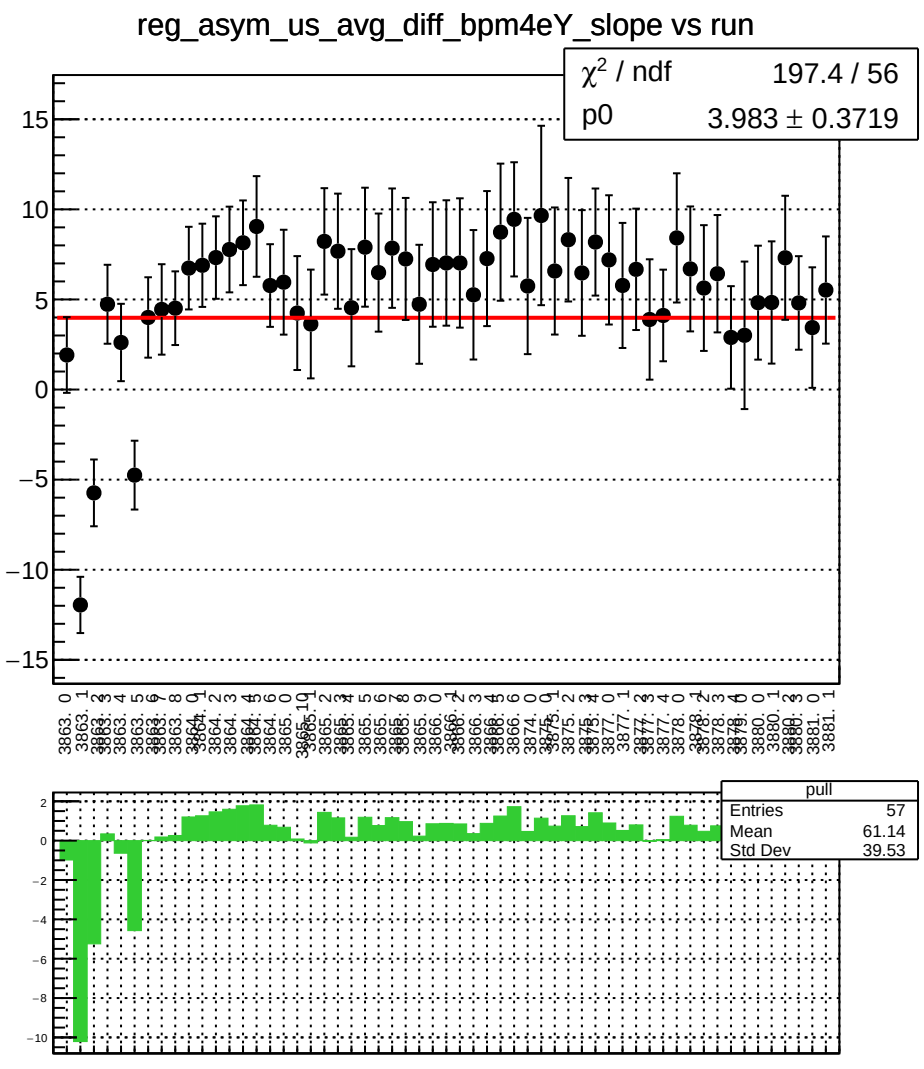

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 16.33 / 56
p0 4.02 ± 0.2839
pull
Entries 57
Mean 64.64
Std Dev 45.59

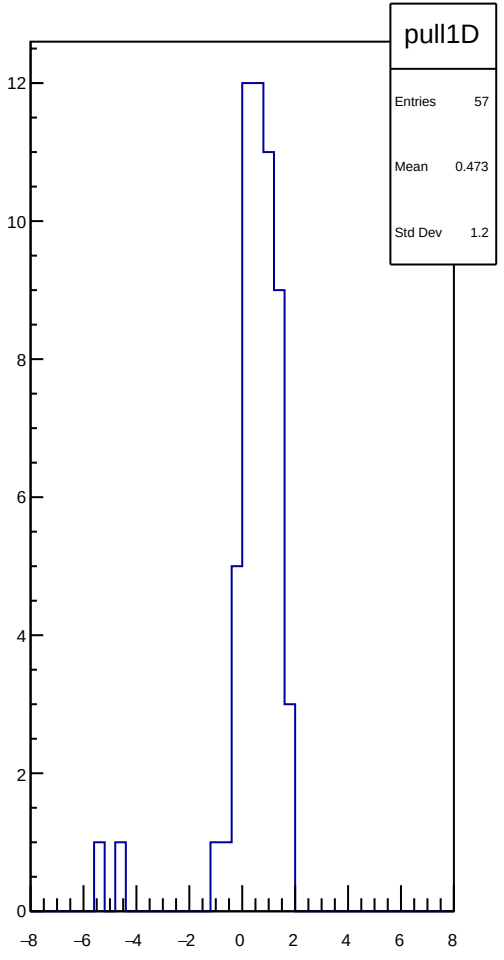

pull1D
Entries 57
Mean −0.06182
Std Dev 0.5316

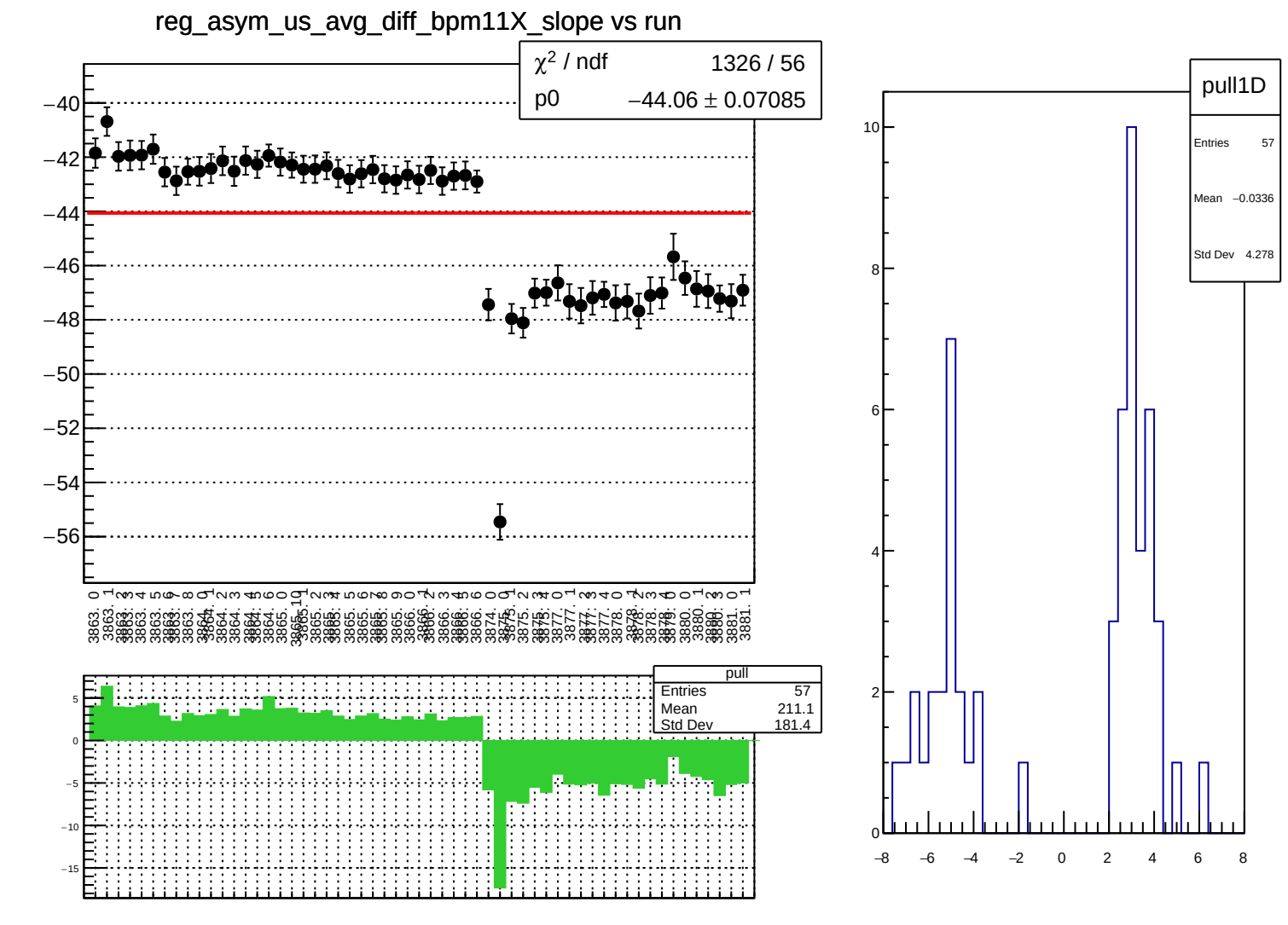

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 178.1 / 56
p0 4.758 ± 0.2248
pull
Entries 57
Mean 54.52
Std Dev 35.7
pull1D
Entries 57
Mean −0.4276
Std Dev 1.169

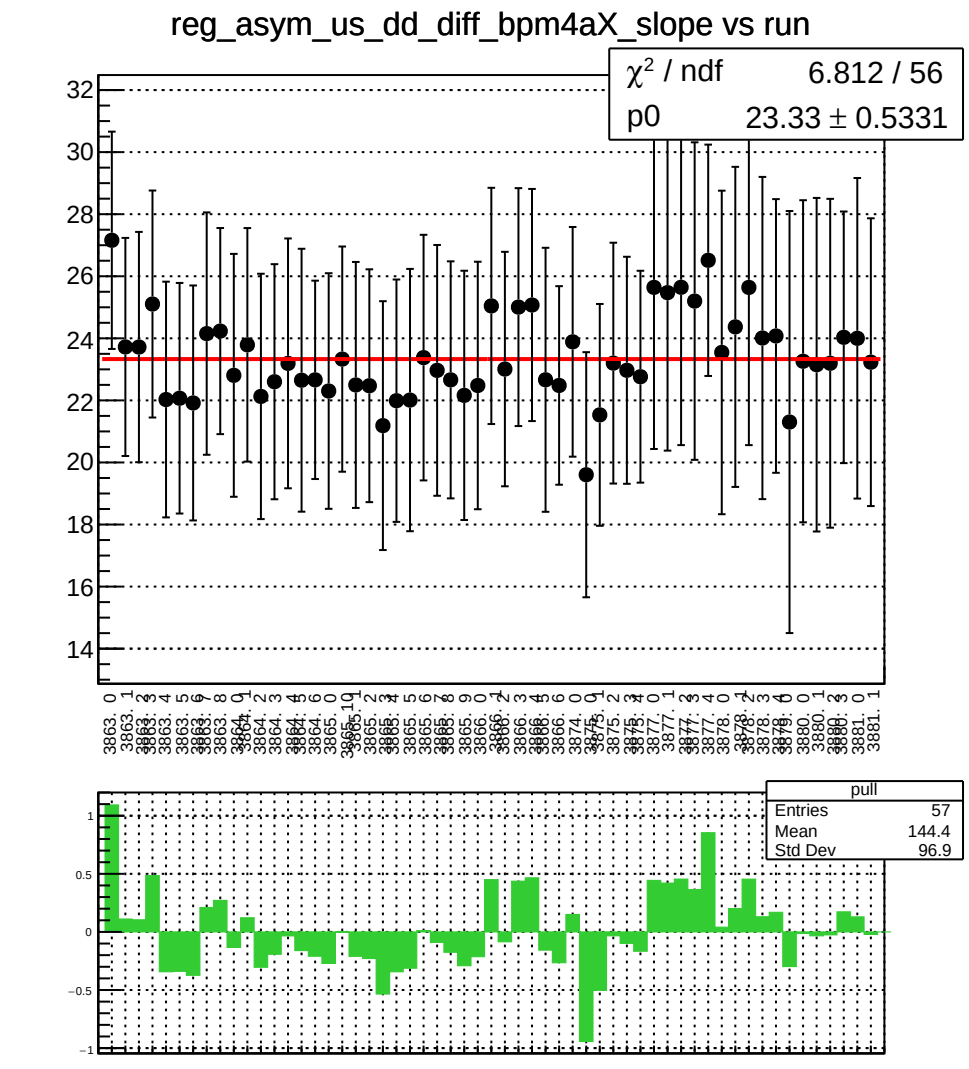

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 712.4 / 56
p0 −19.18 ± 0.04787
pull
Entries 57
Mean −250.2
Std Dev 278.2

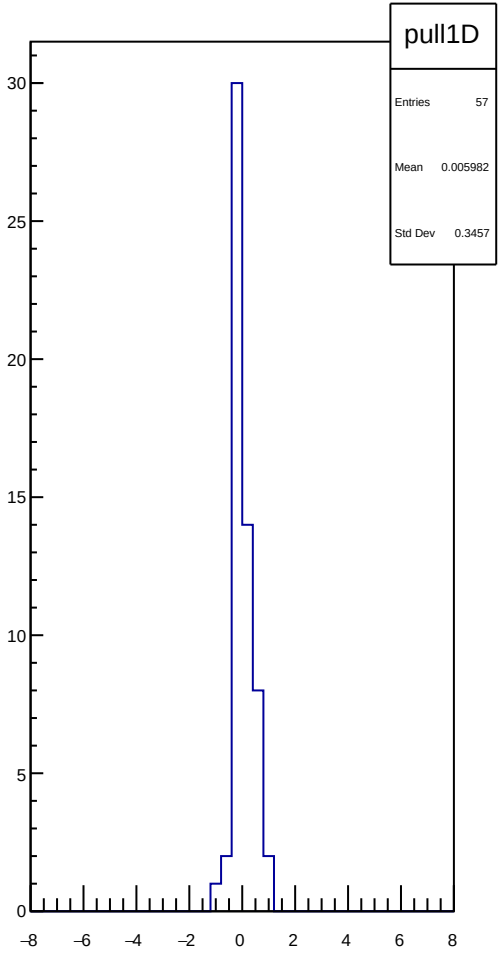

pull1D
Entries 57
Mean 0.1855
Std Dev 3.53

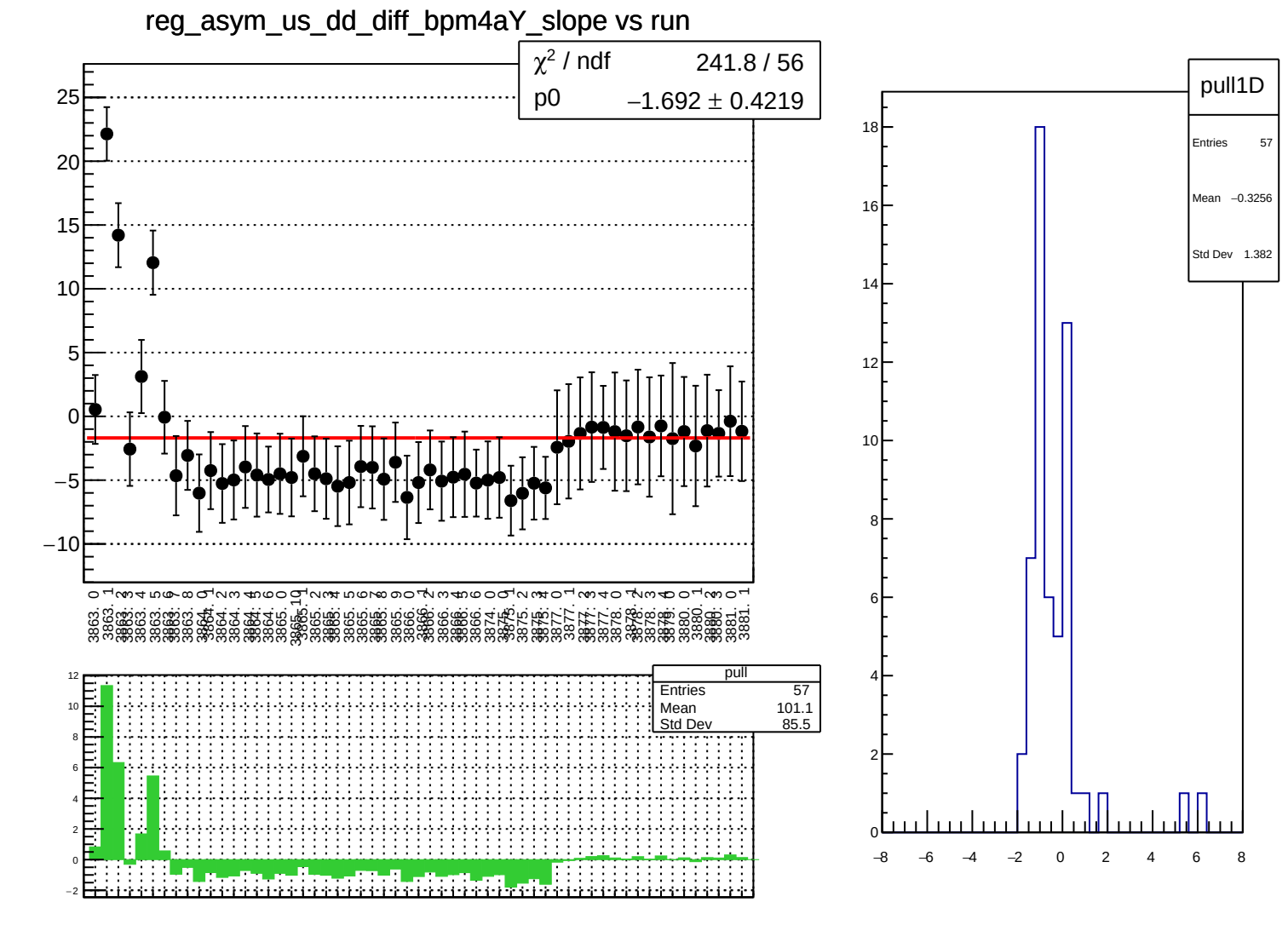

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 197.4 / 56
p0 3.983 ± 0.3719
pull
Entries 57
Mean 61.14
Std Dev 39.53

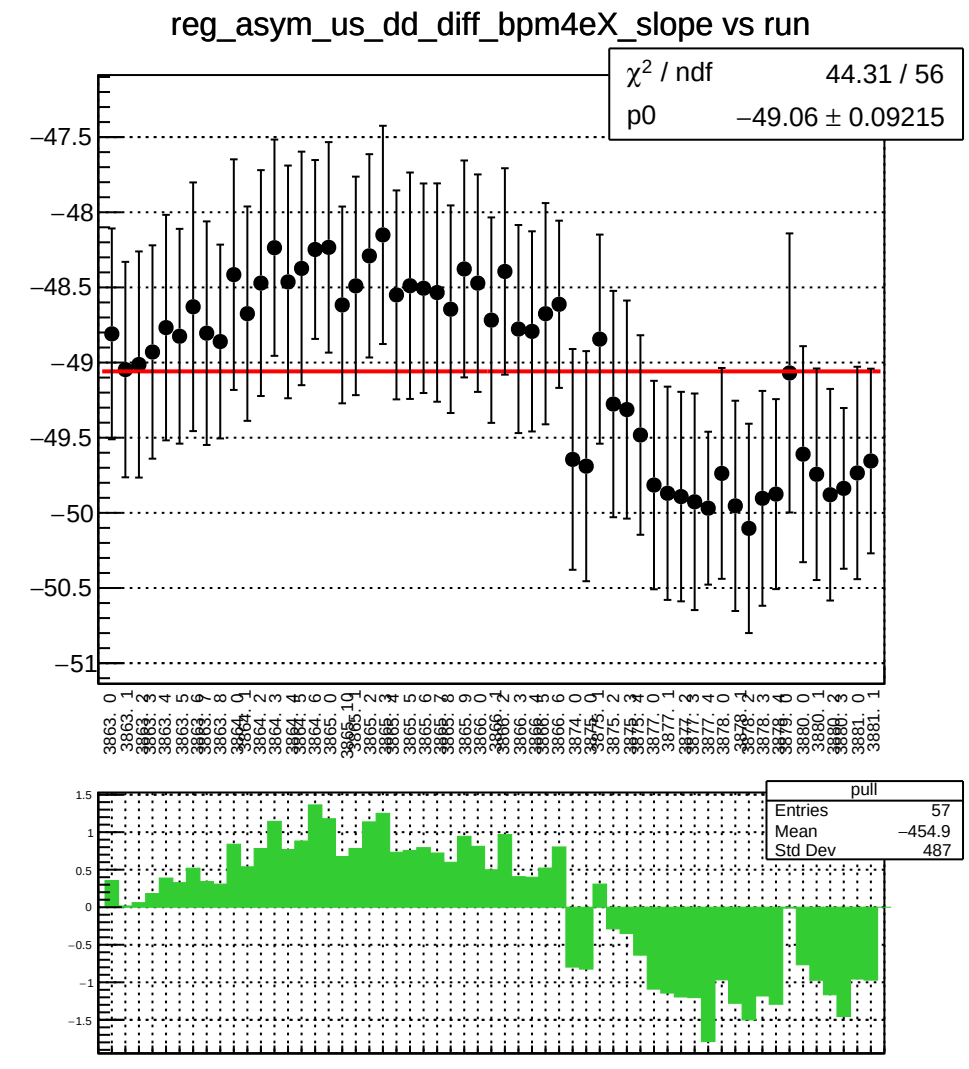

pull1D
Entries 57
Mean 0.473
Std Dev 1.2

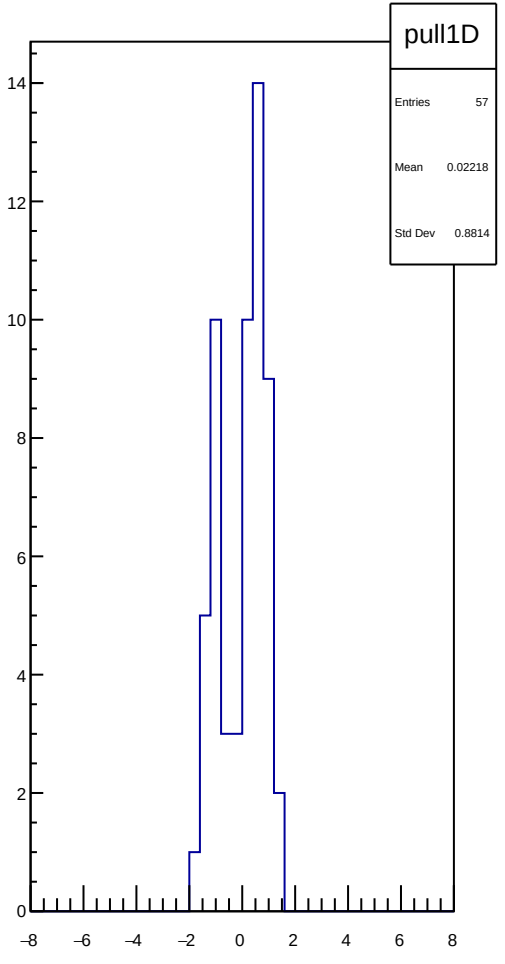

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 1326 / 56
p0 −44.06 ± 0.07085
pull
Entries 57
Mean 211.1
Std Dev 181.4
pull1D
Entries 57
Mean −0.0336
Std Dev 4.278

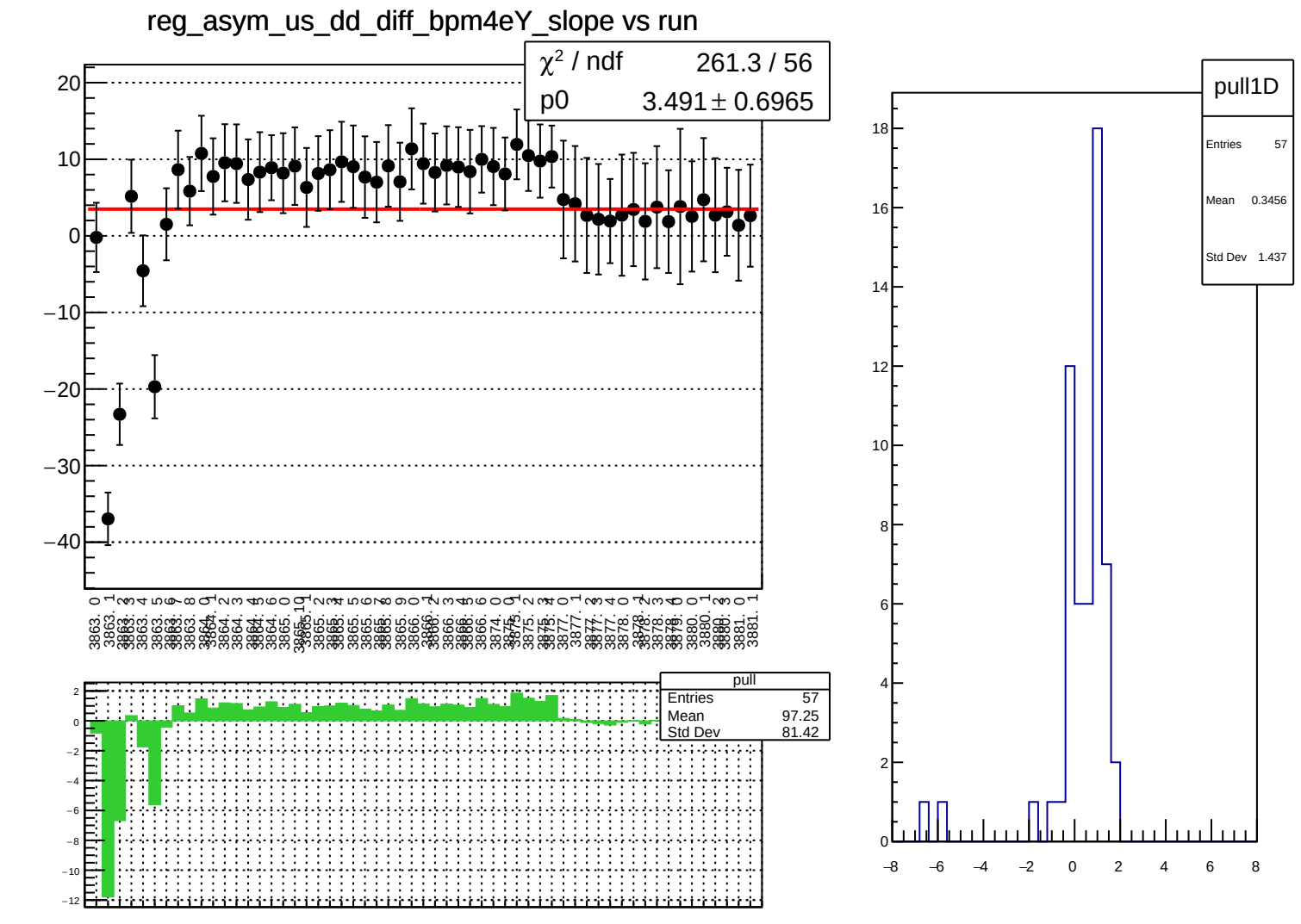

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.812 / 56
p0 23.33 ± 0.5331
pull
Entries 57
Mean 144.4
Std Dev 96.9

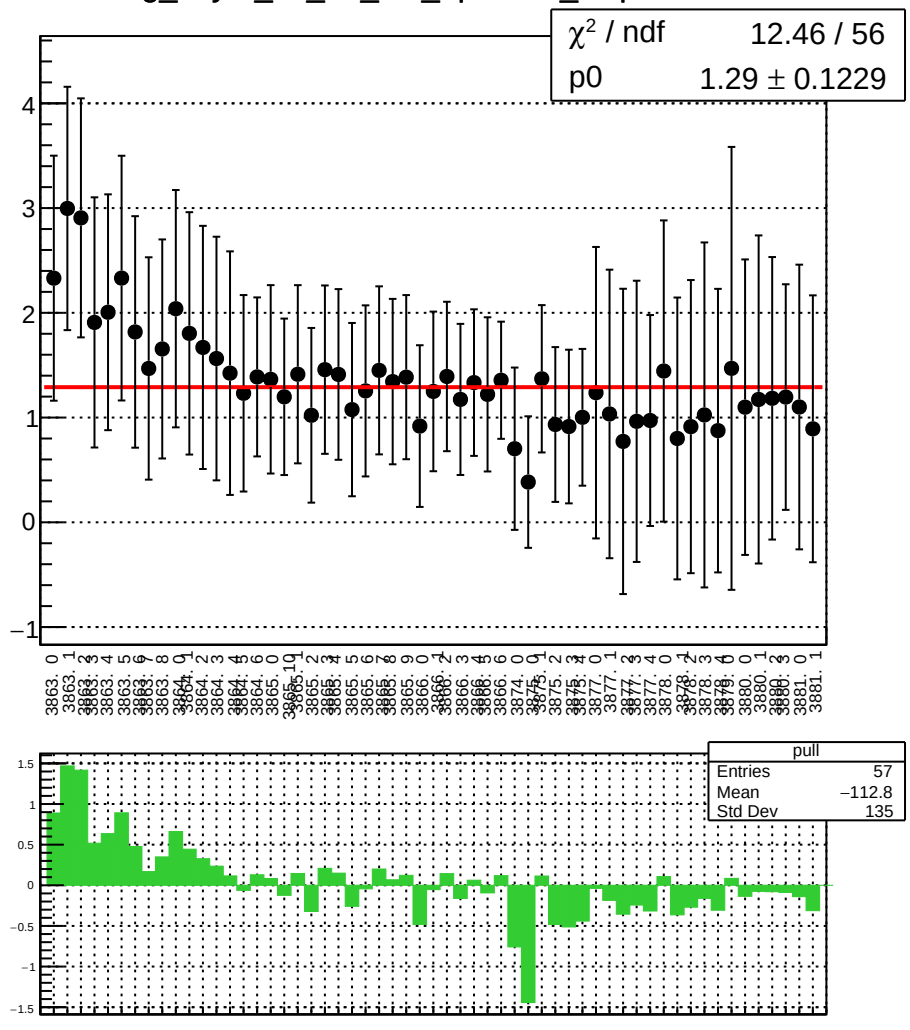

pull1D
Entries 57
Mean 0.005982
Std Dev 0.3457

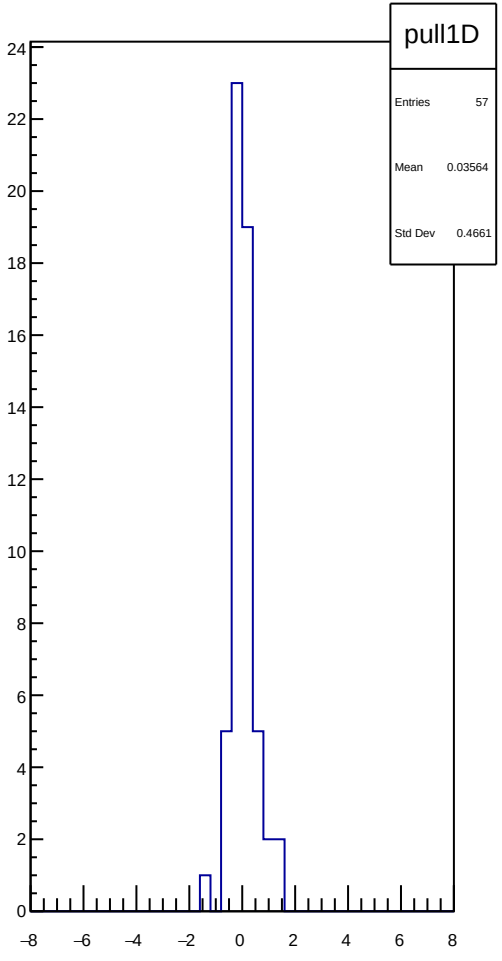

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 241.8 / 56
p0 −1.692 ± 0.4219
pull
Entries 57
Mean 101.1
Std Dev 85.5
pull1D
Entries 57
Mean −0.3256
Std Dev 1.382

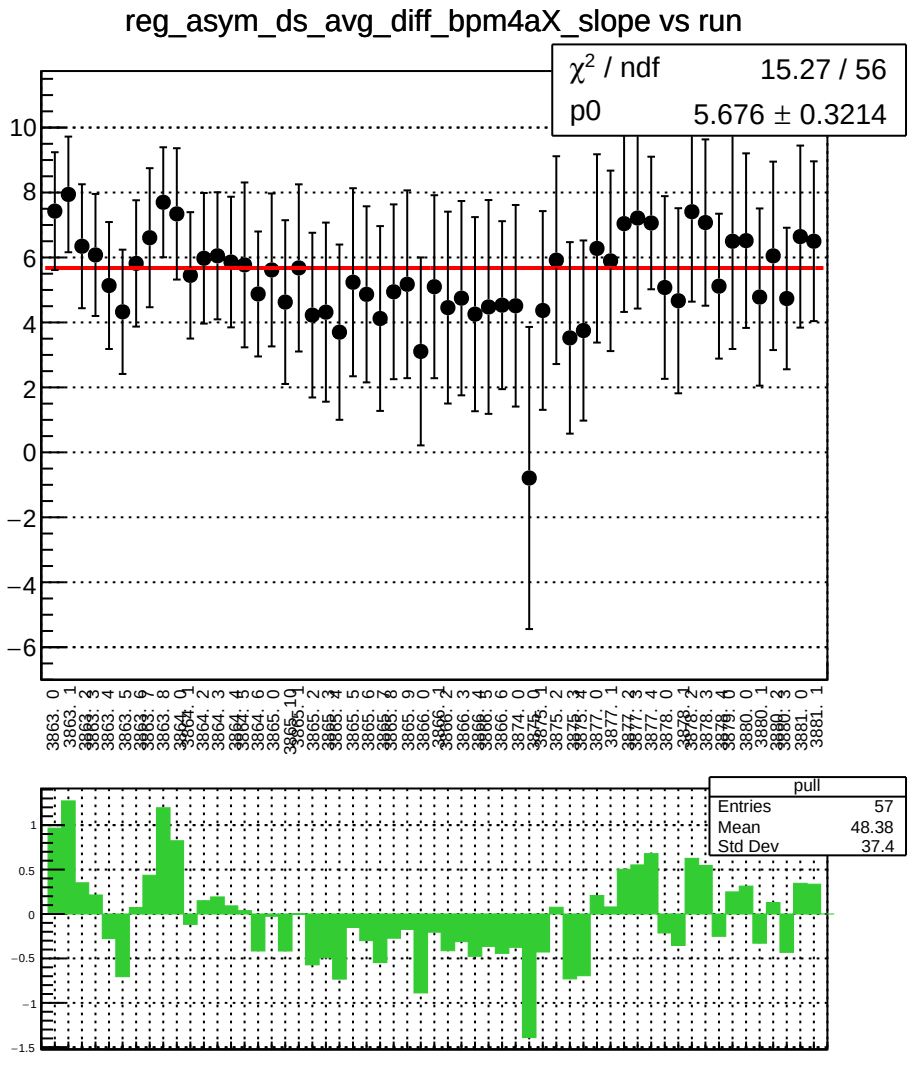

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.31 / 56
p0 −49.06 ± 0.09215
pull
Entries 57
Mean −454.9
Std Dev 487

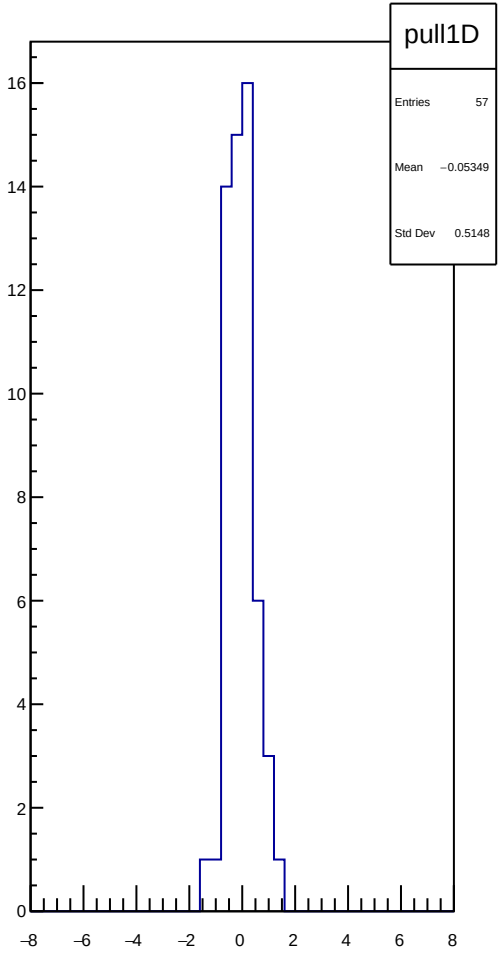

pull1D
Entries 57
Mean 0.02218
Std Dev 0.8814

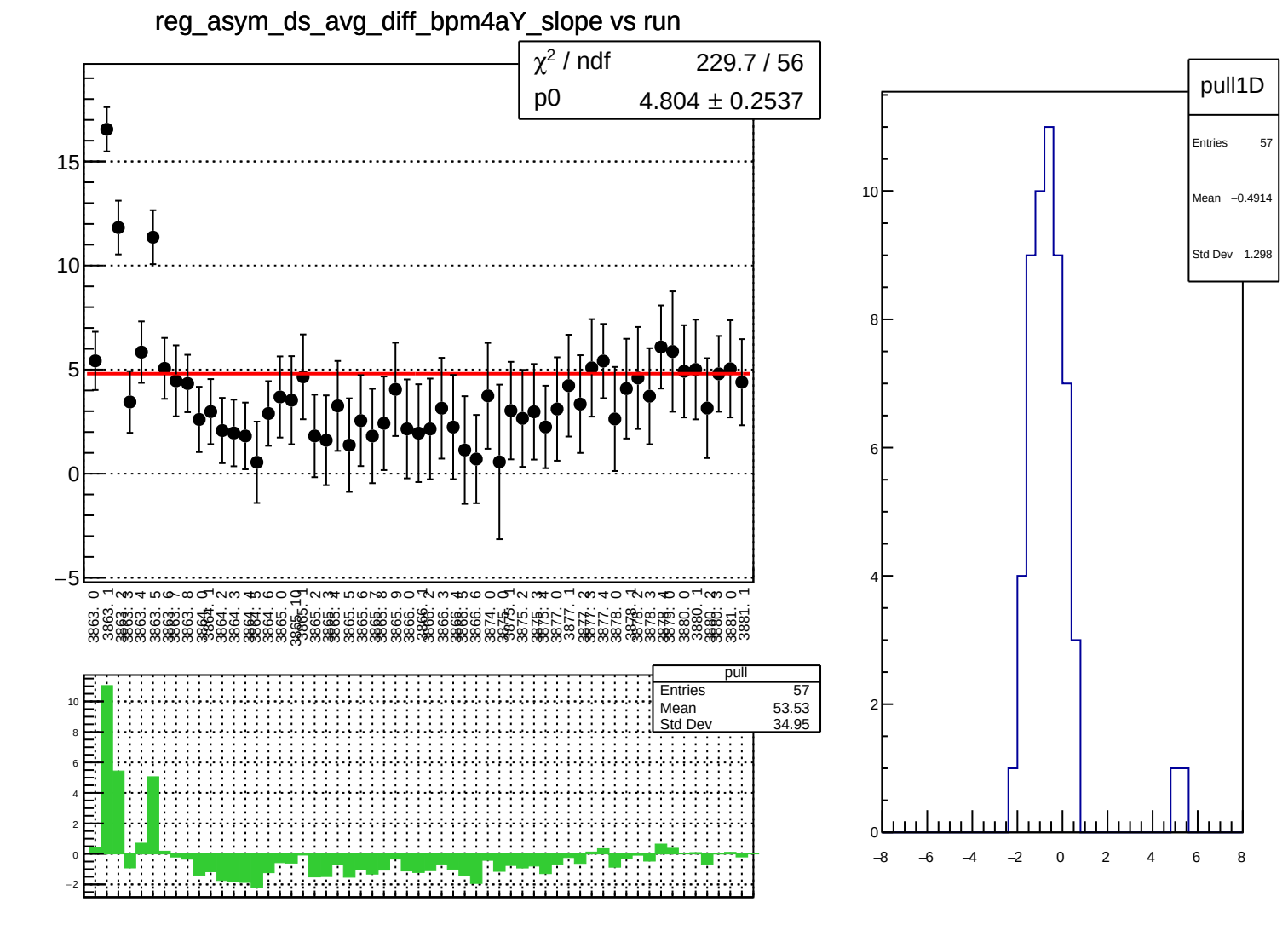

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 261.3 / 56
p0 3.491 ± 0.6965
pull
Entries 57
Mean 97.25
Std Dev 81.42
pull1D
Entries 57
Mean 0.3456
Std Dev 1.437

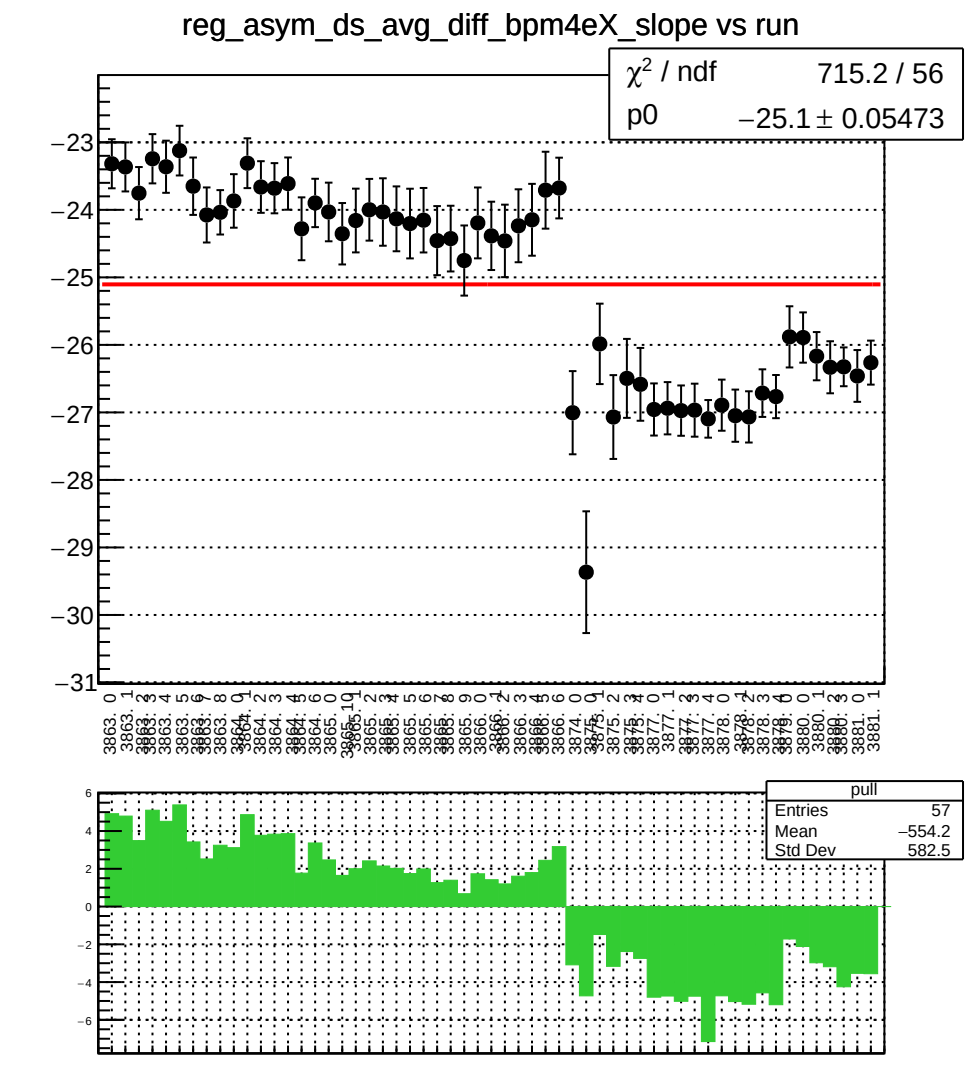

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 12.46 / 56
p0 1.29 ± 0.1229
pull
Entries 57
Mean −112.8
Std Dev 135

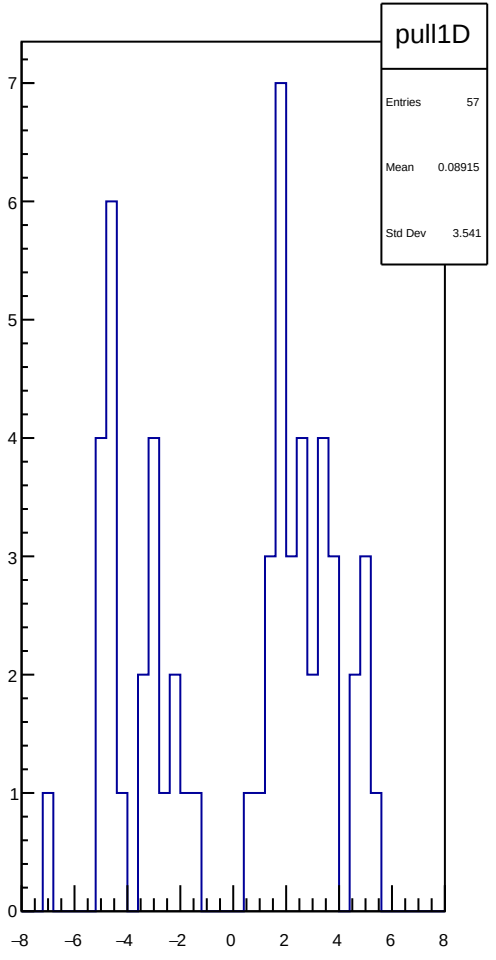

pull1D
Entries 57
Mean 0.03564
Std Dev 0.4661

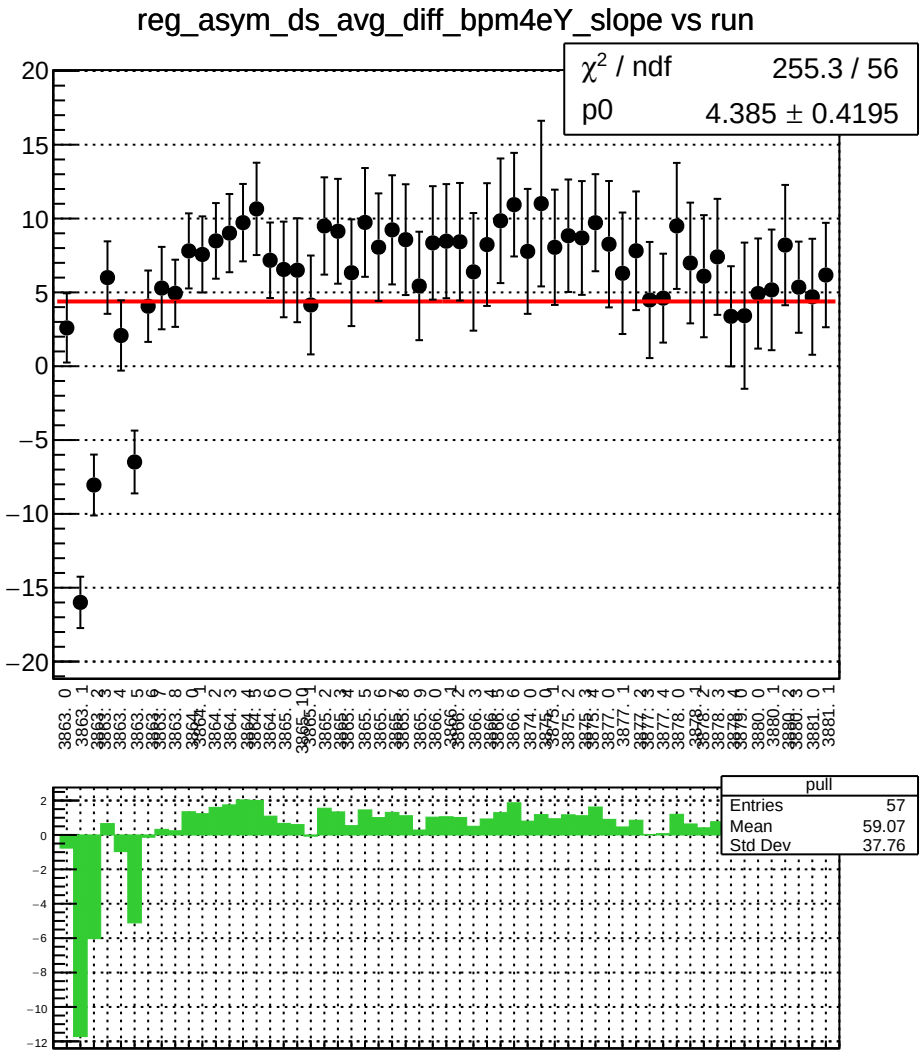

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 15.27 / 56
p0 5.676 ± 0.3214
pull
Entries 57
Mean 48.38
Std Dev 37.4

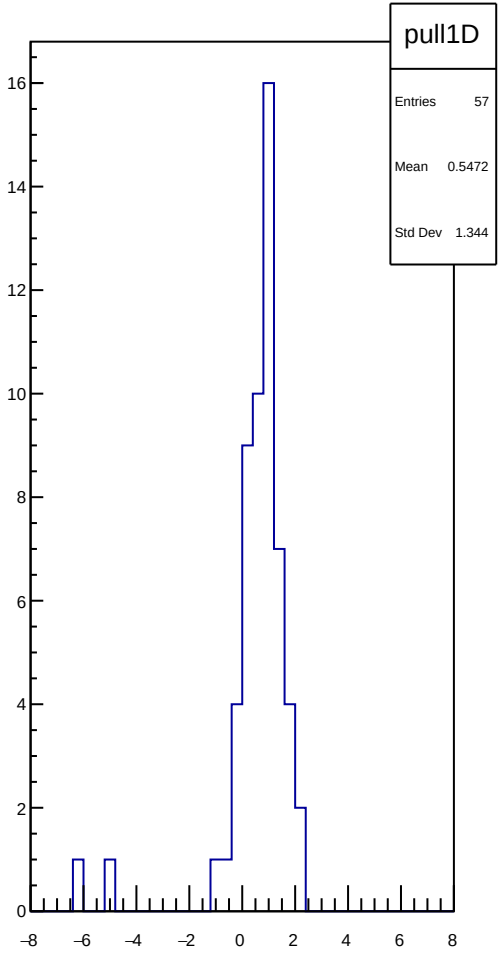

pull1D
Entries 57
Mean −0.05349
Std Dev 0.5148

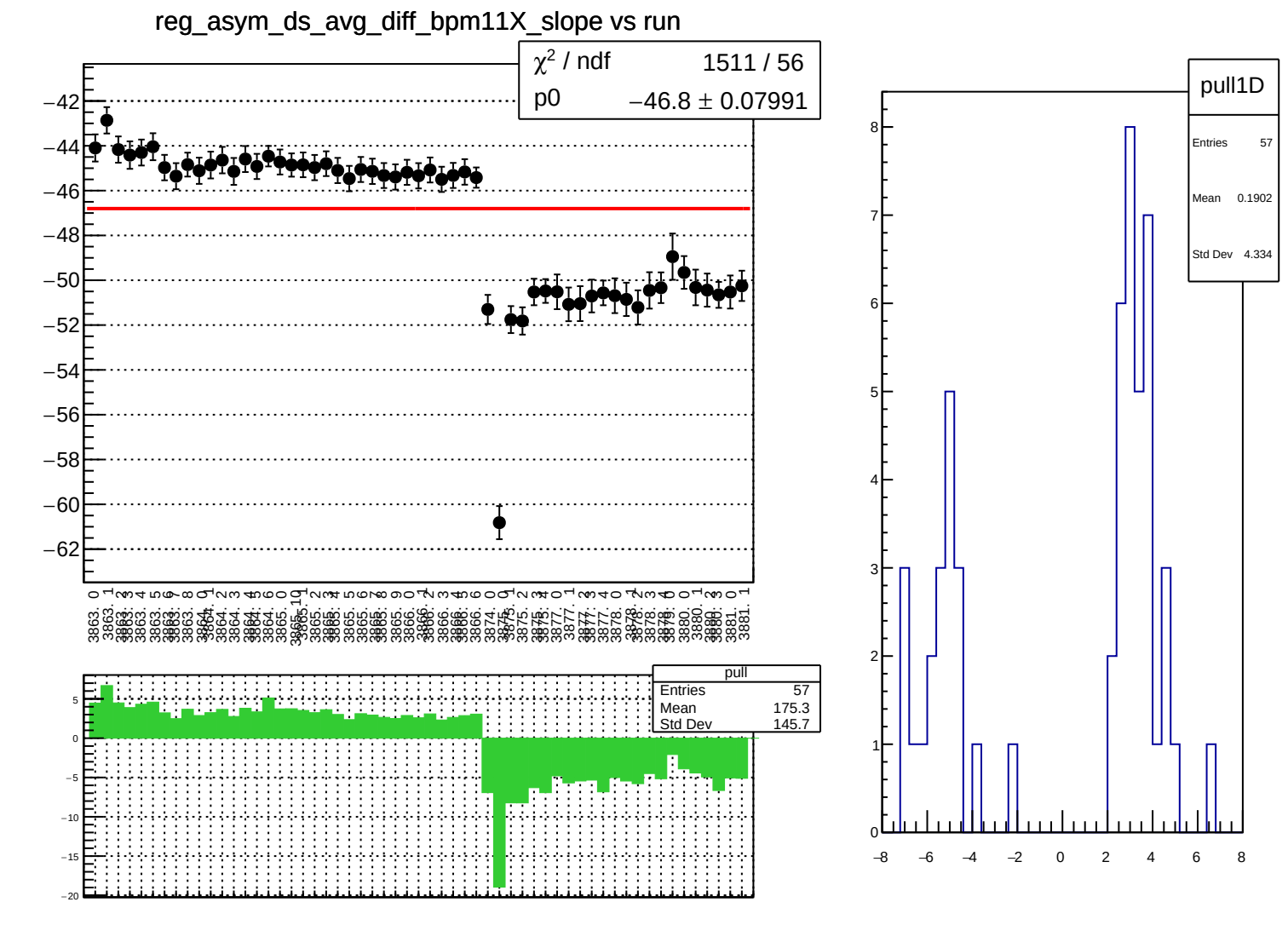

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 229.7 / 56
p0 4.804 ± 0.2537
pull
Entries 57
Mean 53.53
Std Dev 34.95
pull1D
Entries 57
Mean −0.4914
Std Dev 1.298

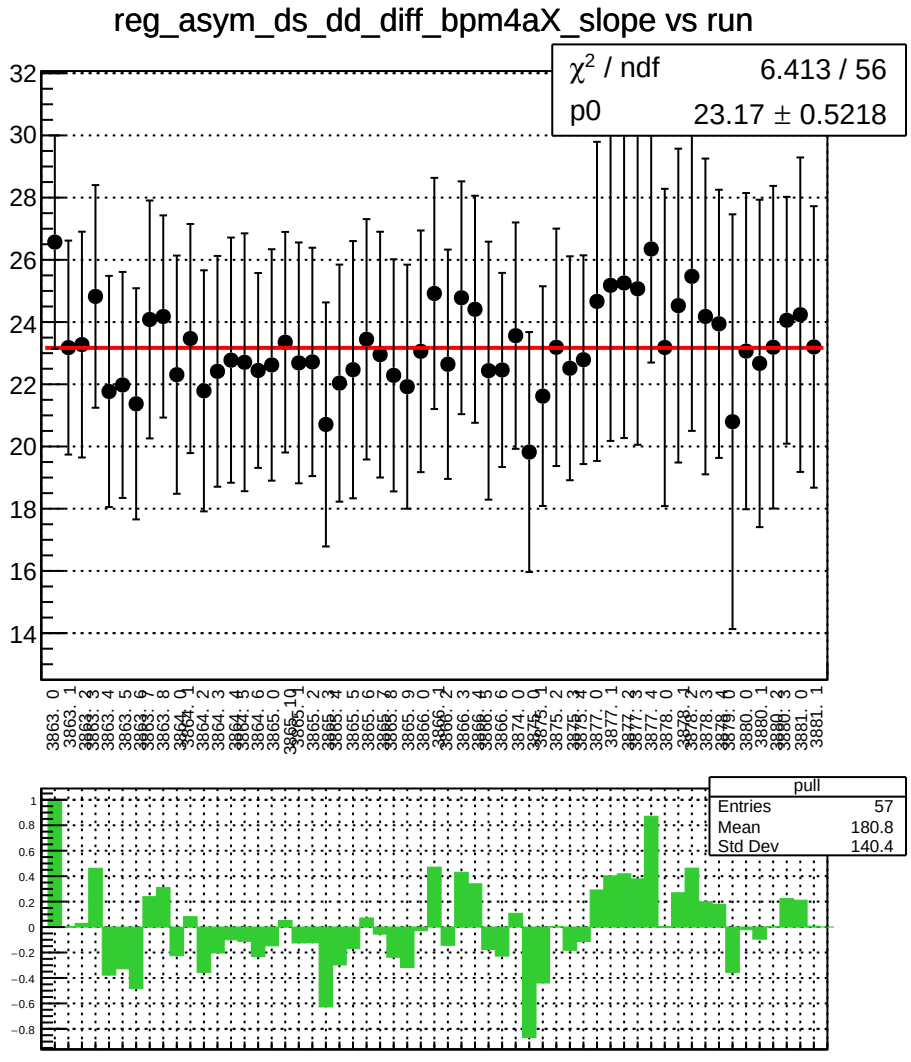

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 715.2 / 56
p0 −25.1 ± 0.05473
pull
Entries 57
Mean −554.2
Std Dev 582.5

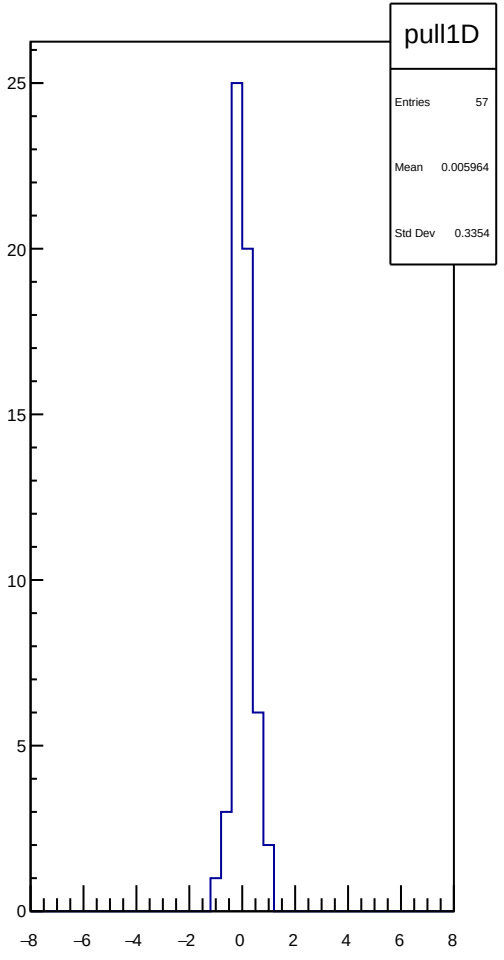

pull1D
Entries 57
Mean 0.08915
Std Dev 3.541

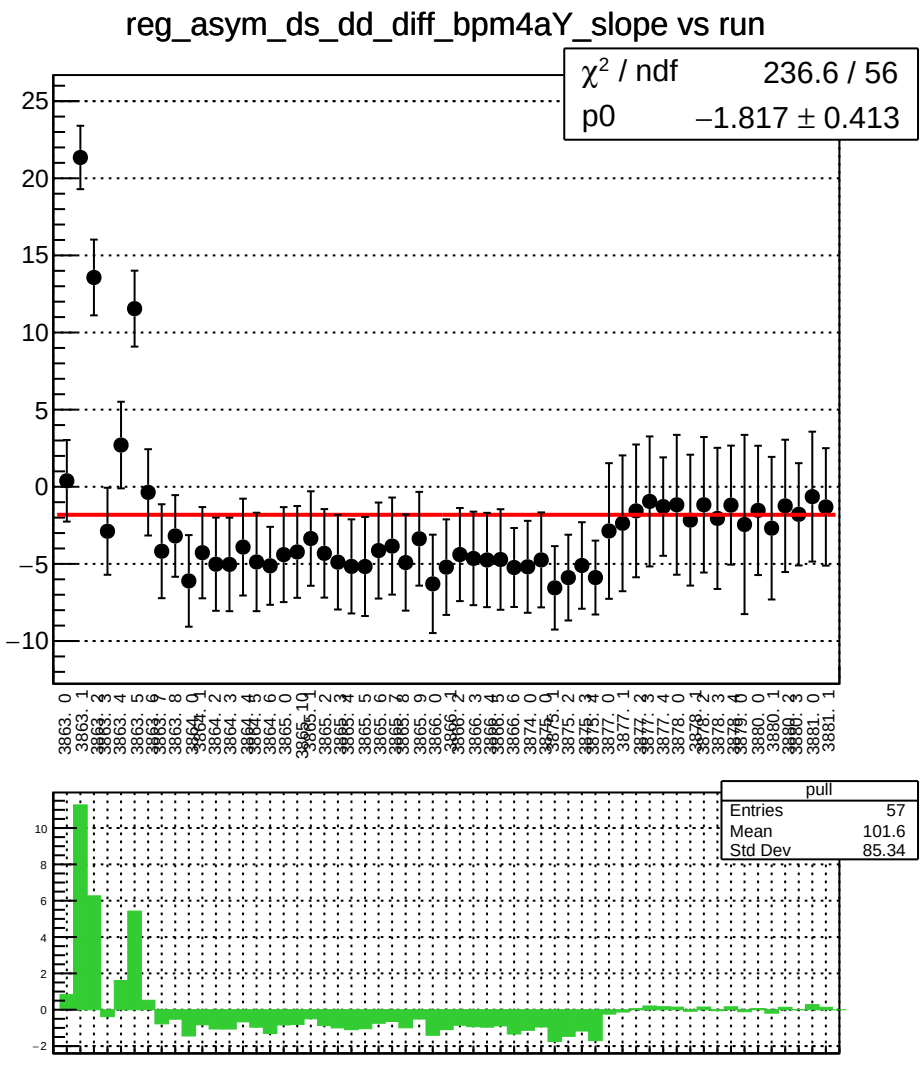

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 255.3 / 56
p0 4.385 ± 0.4195
pull
Entries 57
Mean 59.07
Std Dev 37.76

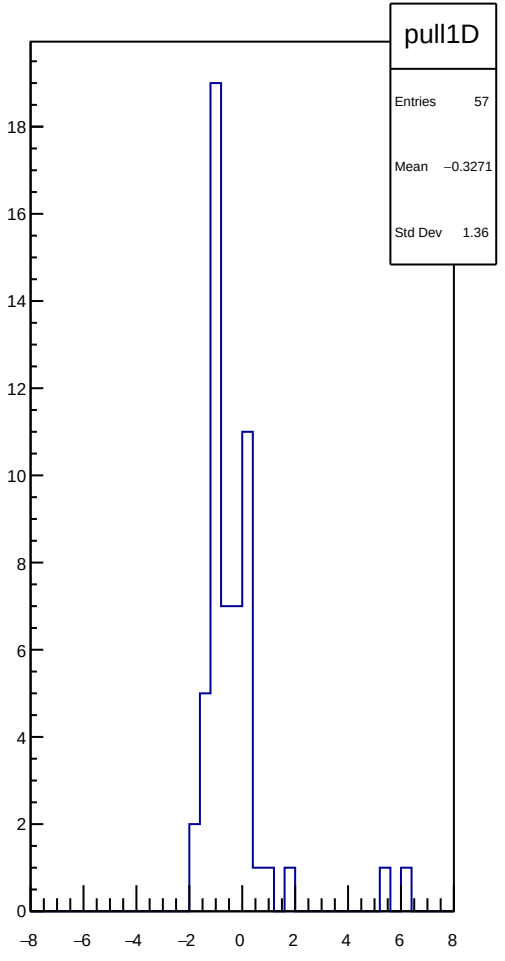

pull1D
Entries 57
Mean 0.5472
Std Dev 1.344

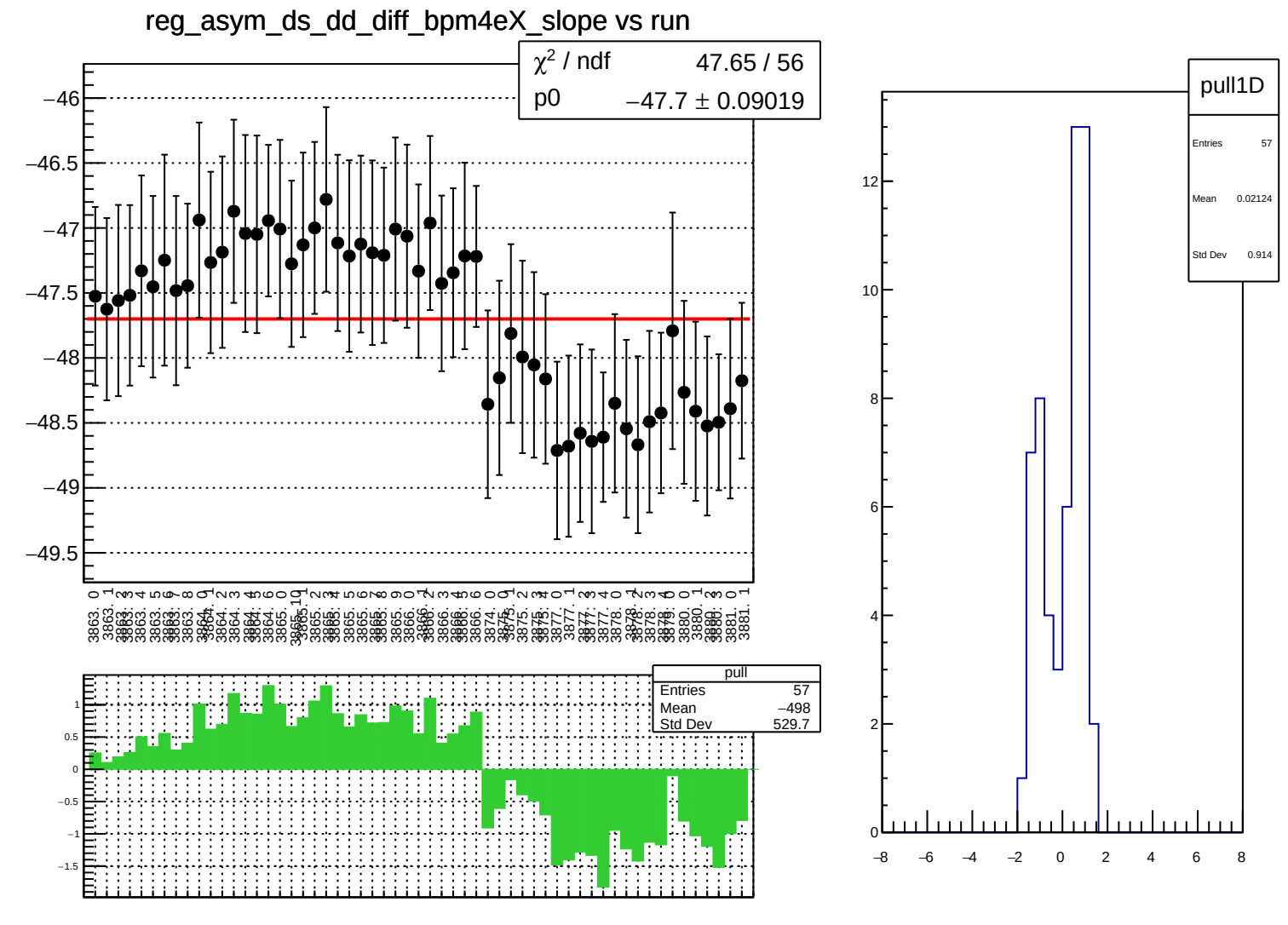

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 1511 / 56
p0 −46.8 ± 0.07991
pull
Entries 57
Mean 175.3
Std Dev 145.7
pull1D
Entries 57
Mean 0.1902
Std Dev 4.334

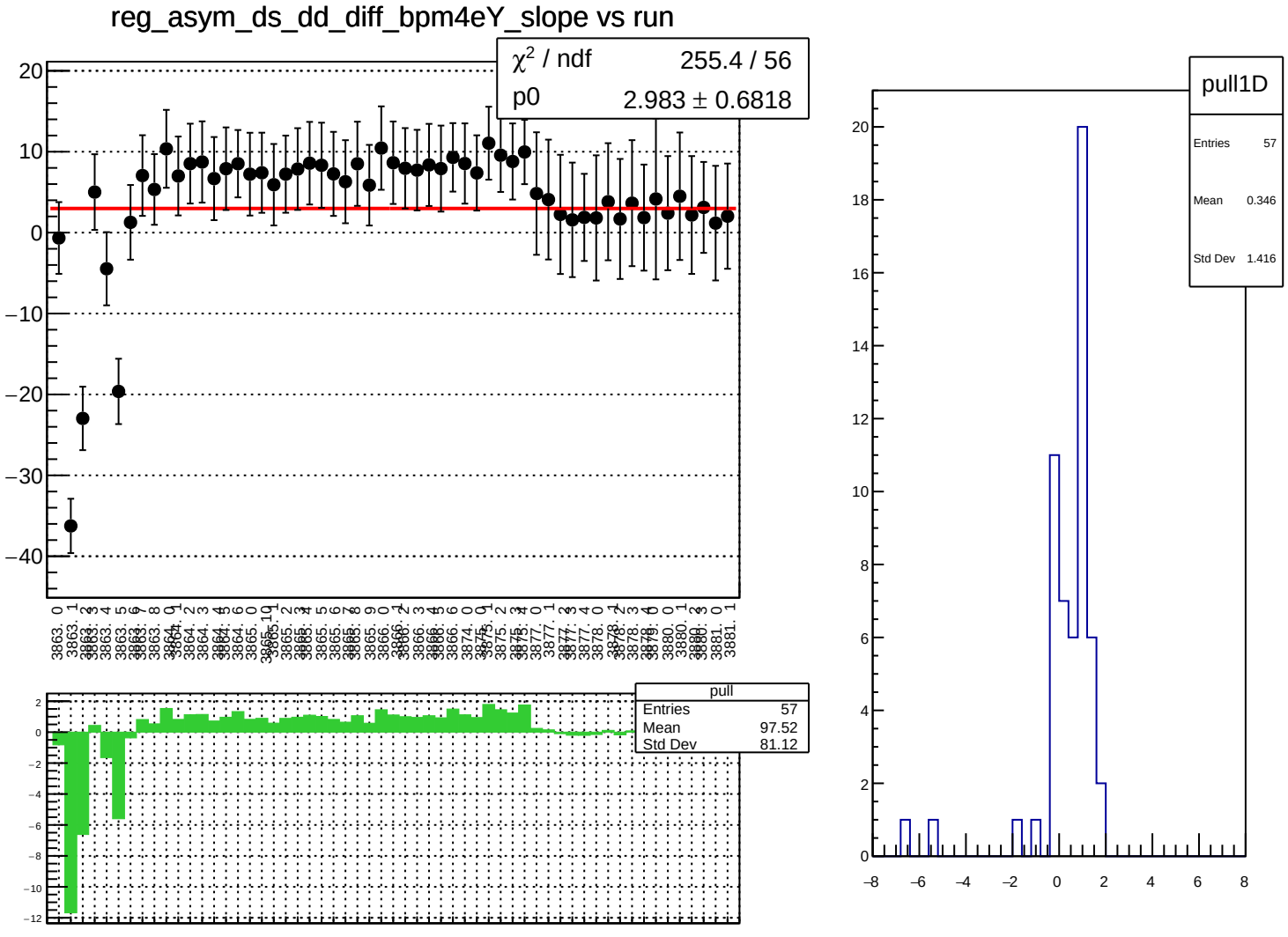

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.413 / 56
p0 23.17 ± 0.5218
pull
Entries 57
Mean 180.8
Std Dev 140.4

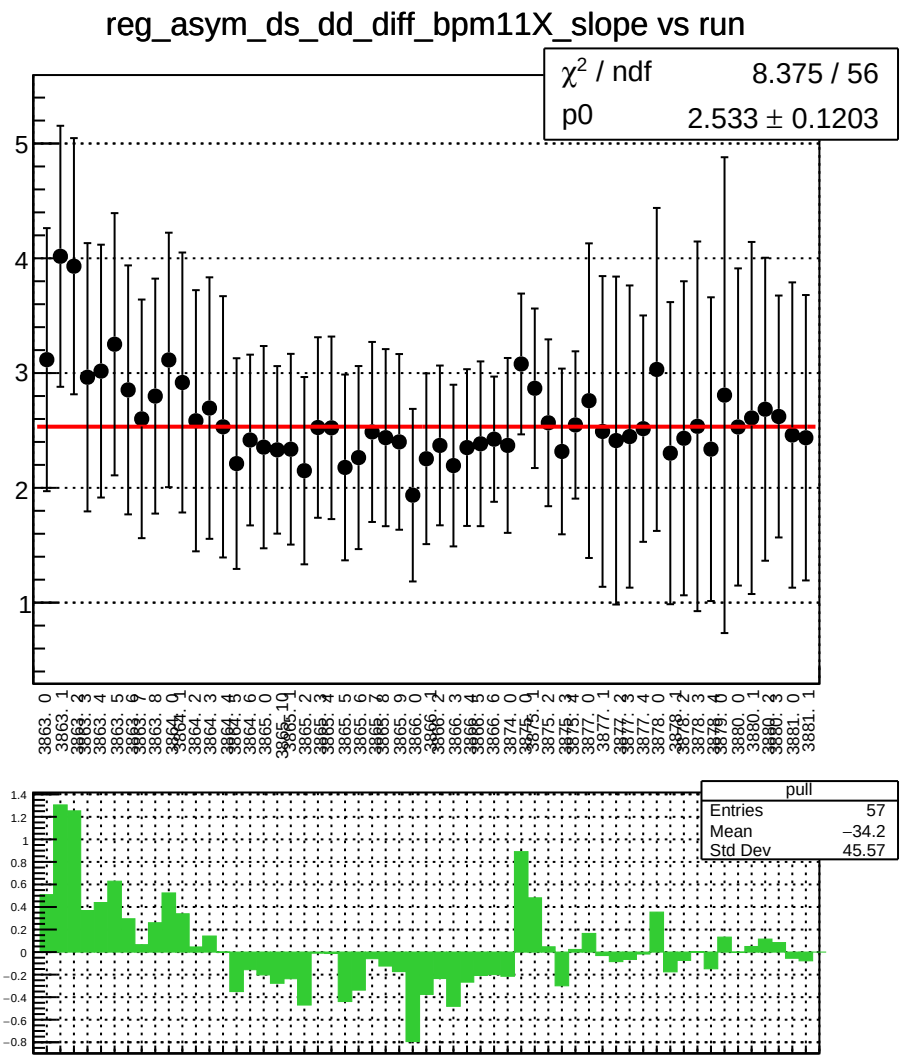

pull1D
Entries 57
Mean 0.005964
Std Dev 0.3354

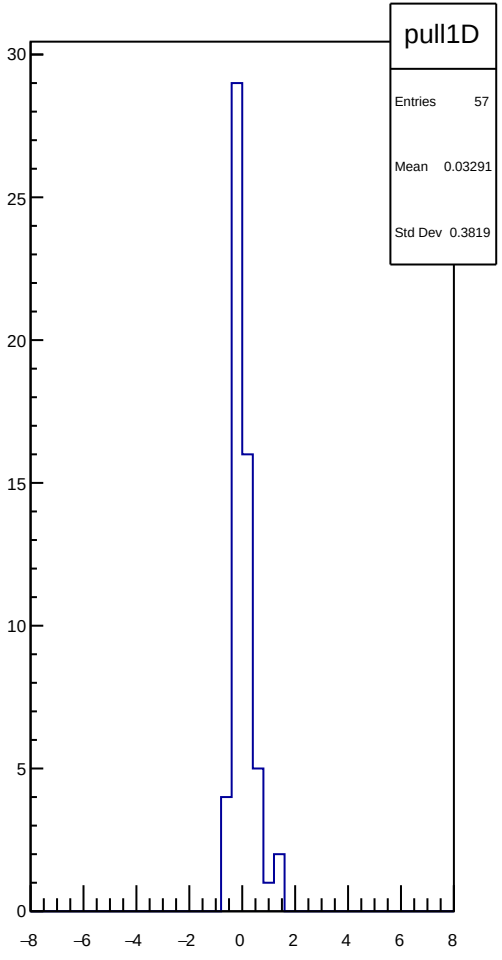

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 236.6 / 56
p0 −1.817 ± 0.413
pull
Entries 57
Mean 101.6
Std Dev 85.34

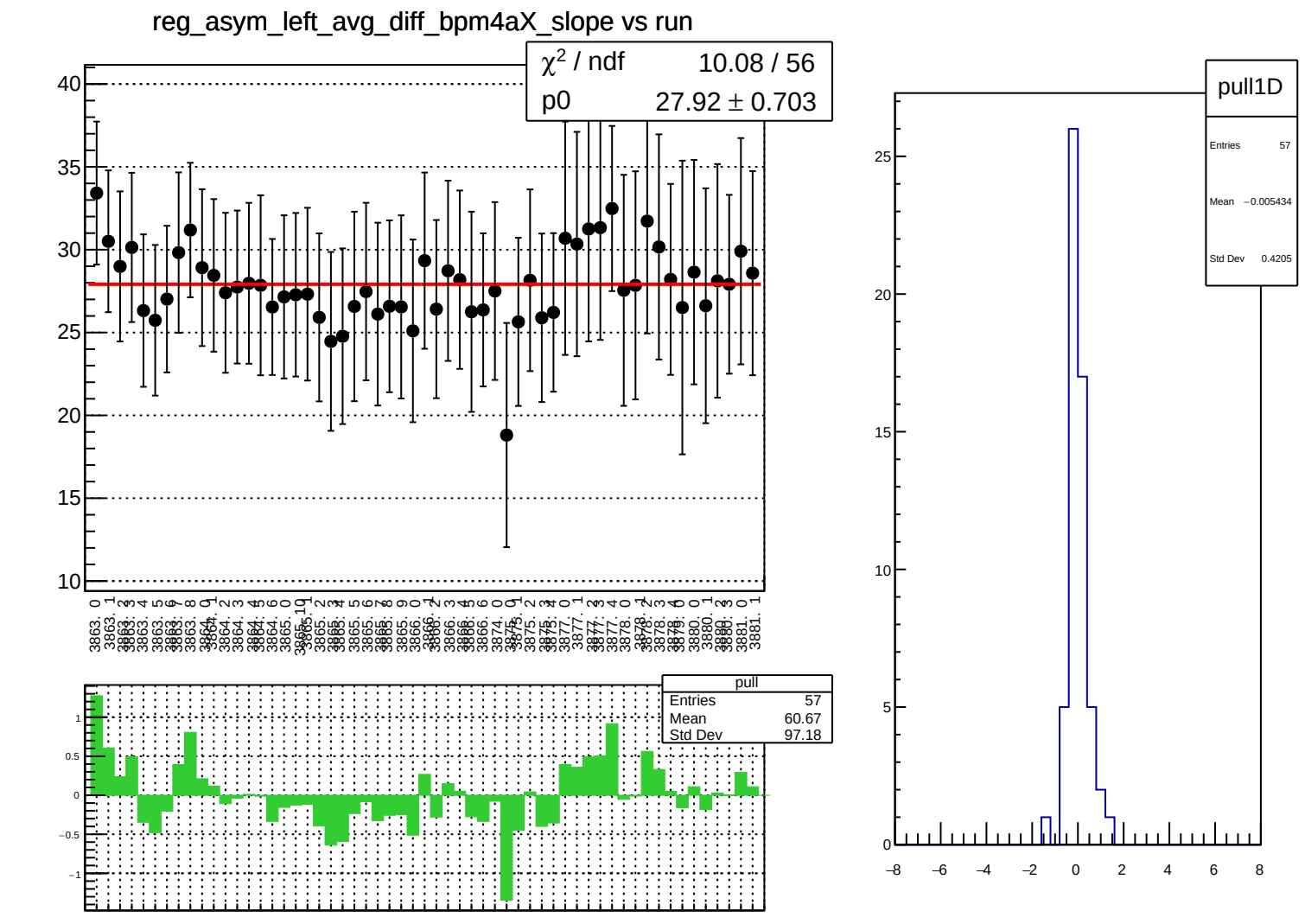

pull1D
Entries 57
Mean −0.3271
Std Dev 1.36

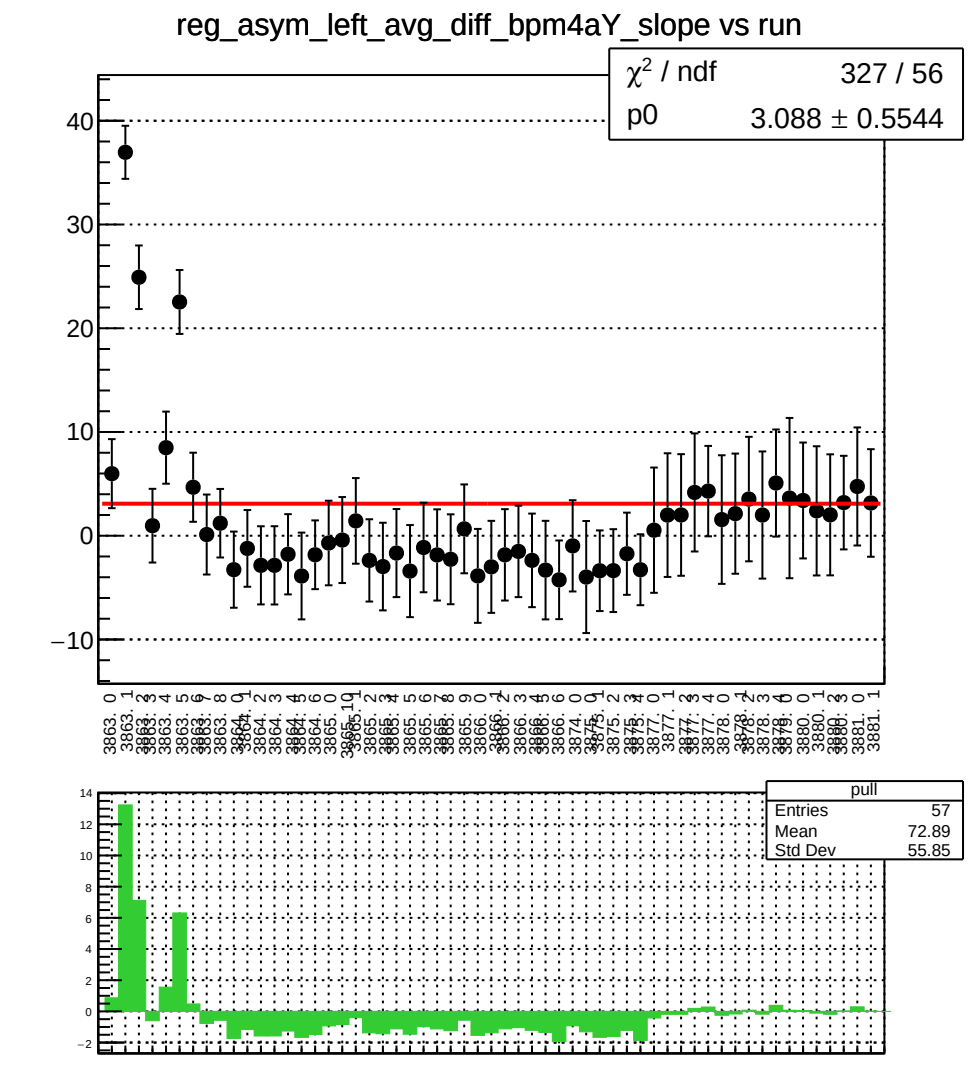

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.65 / 56
p0 −47.7 ± 0.09019
pull
Entries 57
Mean −498
Std Dev 529.7
pull1D
Entries 57
Mean 0.02124
Std Dev 0.914

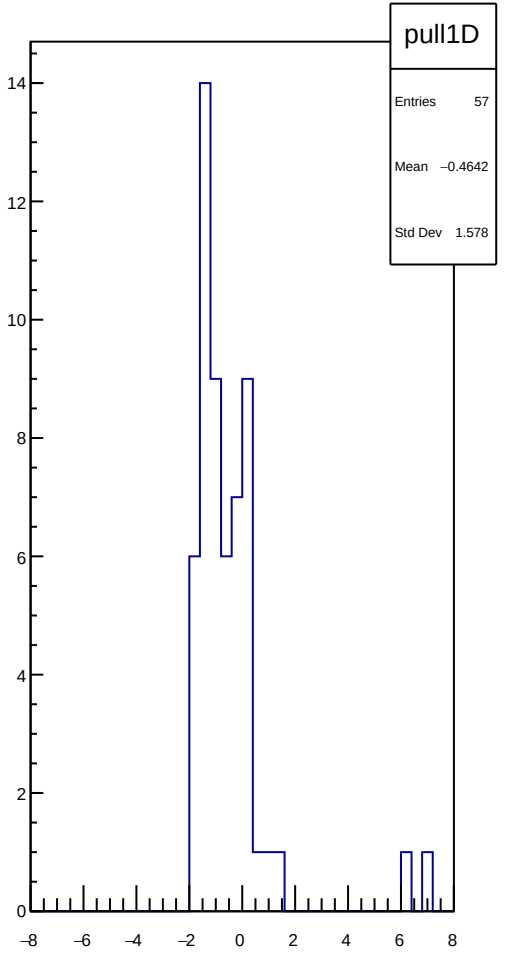

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 255.4 / 56
p0 2.983 ± 0.6818
pull
Entries 57
Mean 97.52
Std Dev 81.12
pull1D
Entries 57
Mean 0.346
Std Dev 1.416

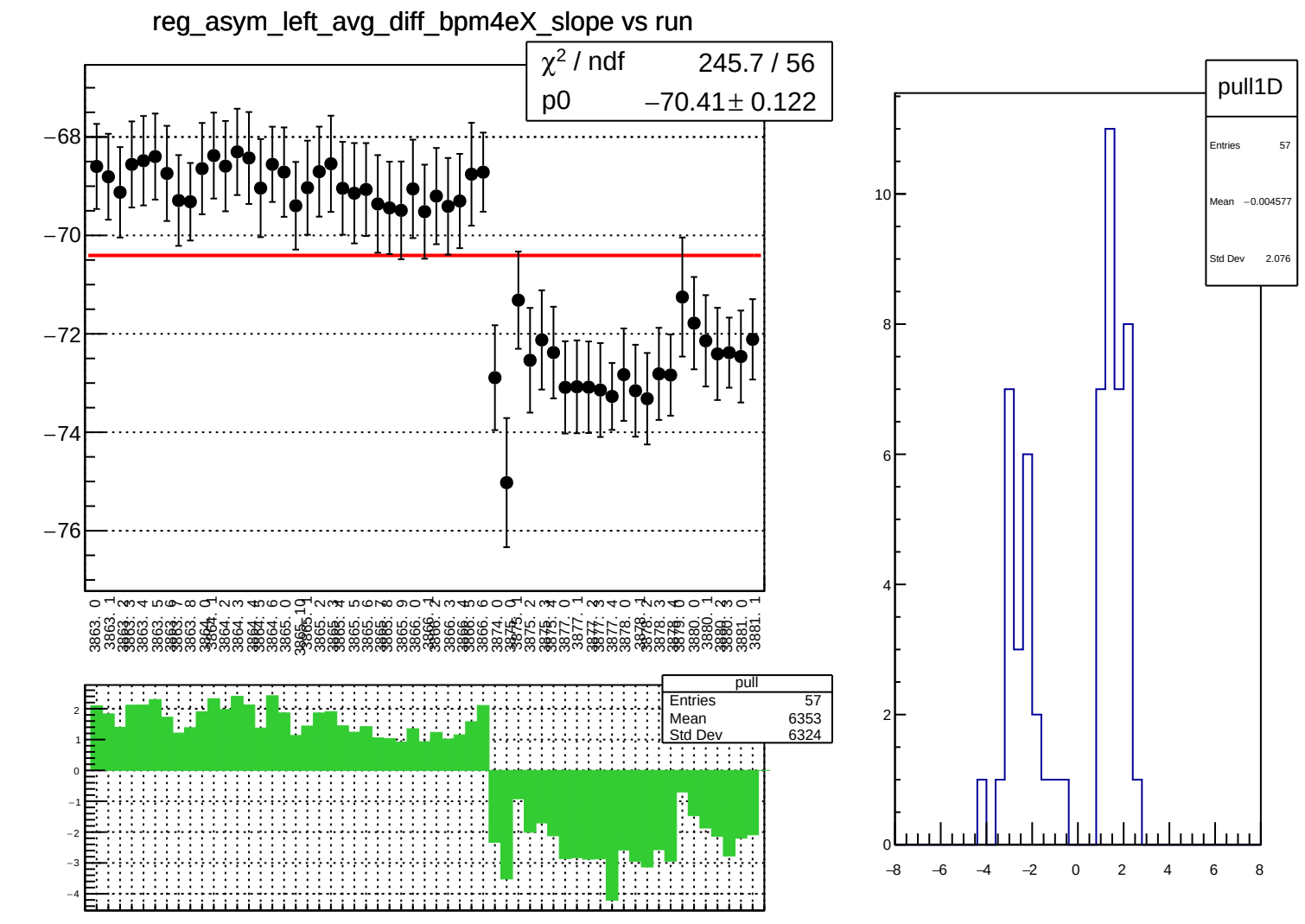

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 8.375 / 56
p0 2.533 ± 0.1203
pull
Entries 57
Mean −34.2
Std Dev 45.57

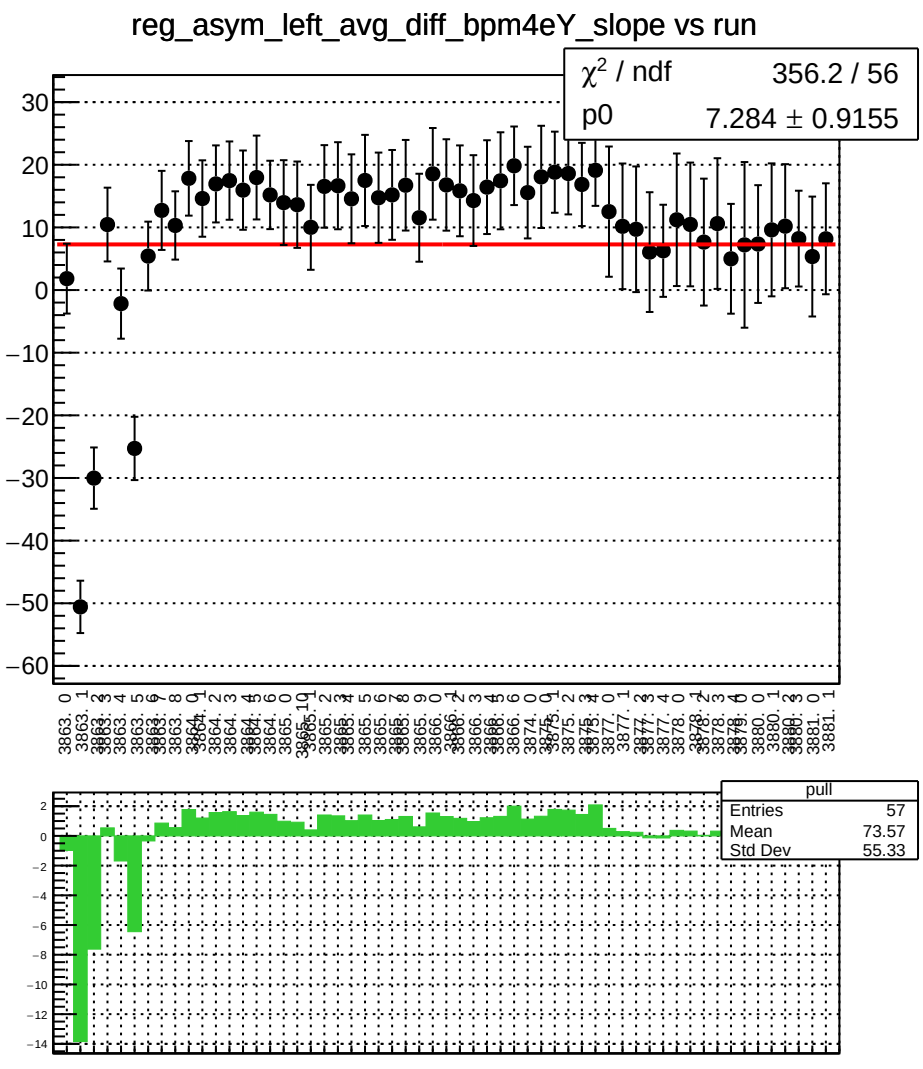

pull1D
Entries 57
Mean 0.03291
Std Dev 0.3819

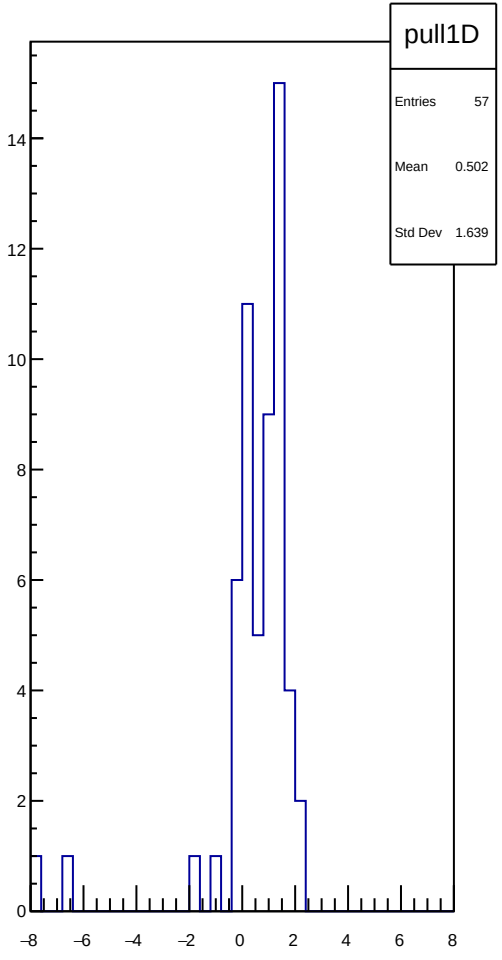

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 10.08 / 56
p0 27.92 ± 0.703
pull
Entries 57
Mean 60.67
Std Dev 97.18
pull1D
Entries 57
Mean −0.005434
Std Dev 0.4205

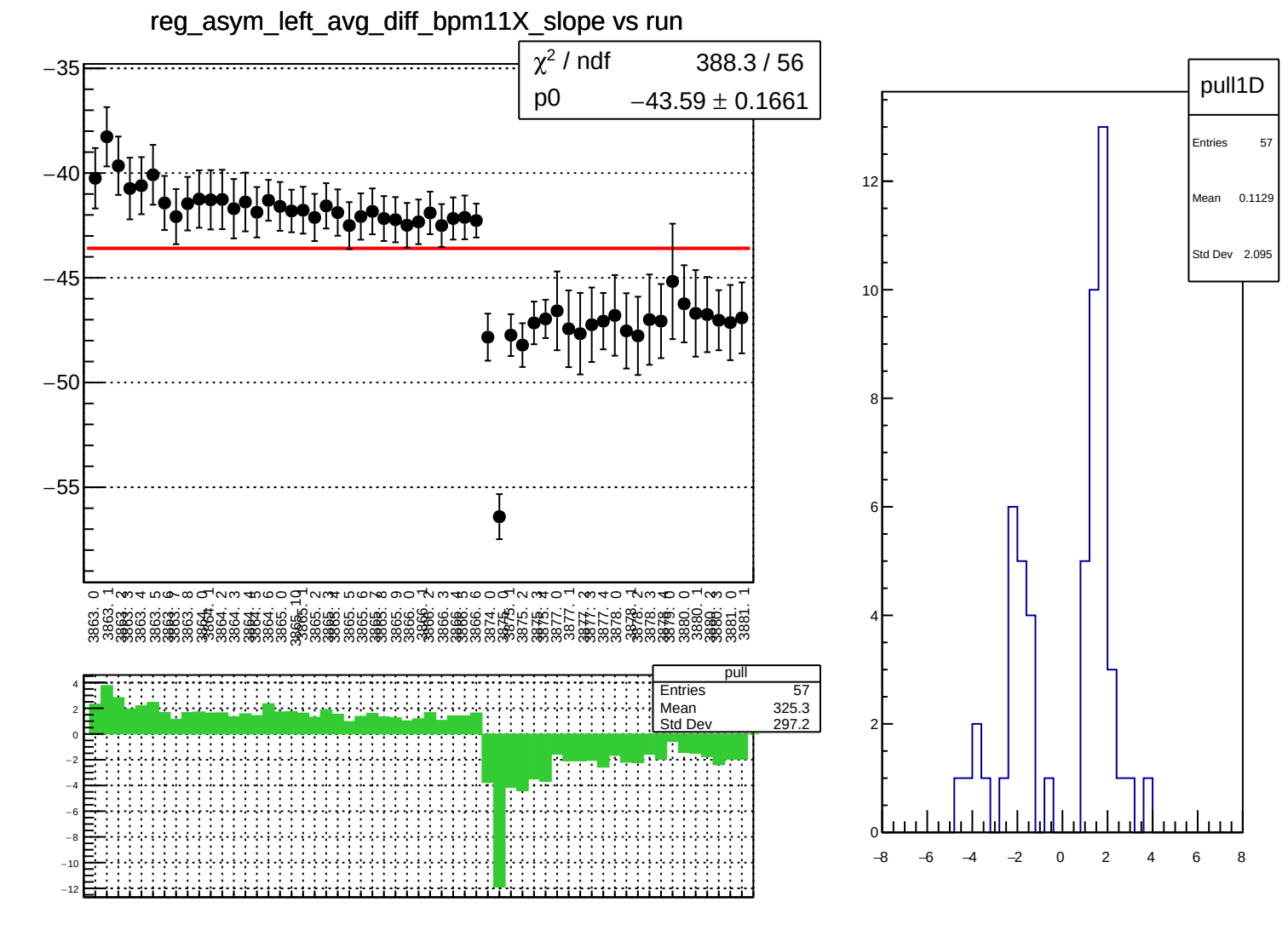

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 327 / 56
p0 3.088 ± 0.5544
pull
Entries 57
Mean 72.89
Std Dev 55.85

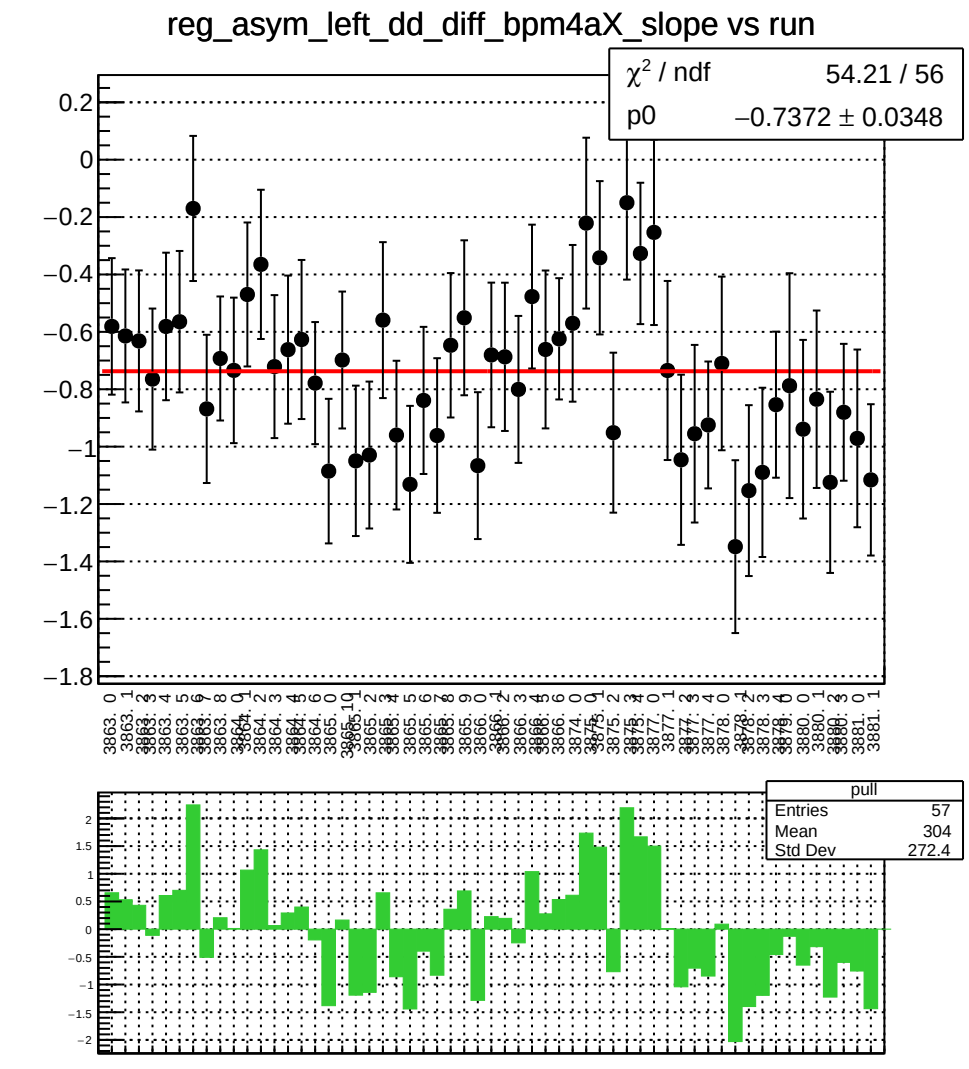

pull1D
Entries 57
Mean −0.4642
Std Dev 1.578

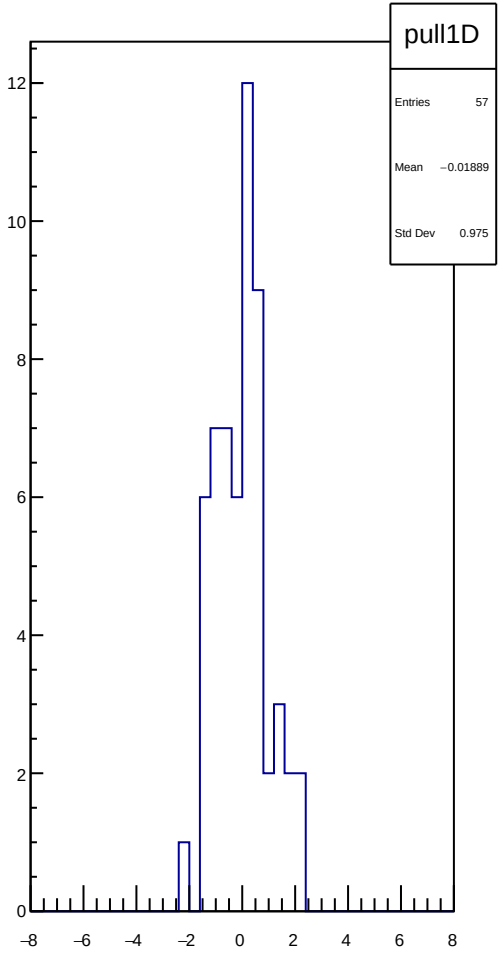

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 245.7 / 56
p0 −70.41 ± 0.122
−68
−70
−72
−74
−76
pull
Entries 57
Mean 6353
Std Dev 6324
pull1D
Entries 57
Mean −0.004577
Std Dev 2.076
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

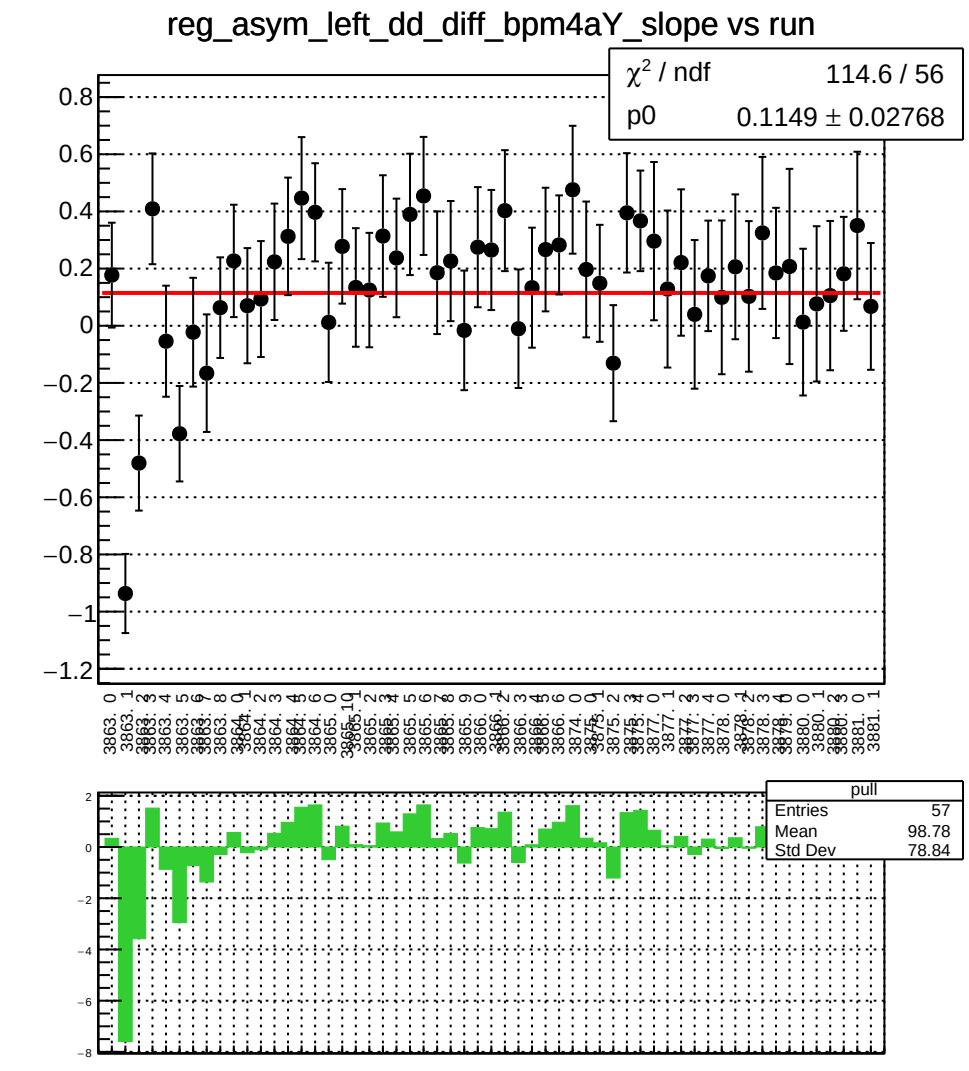

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 356.2 / 56
p0 7.284 ± 0.9155
pull
Entries 57
Mean 73.57
Std Dev 55.33

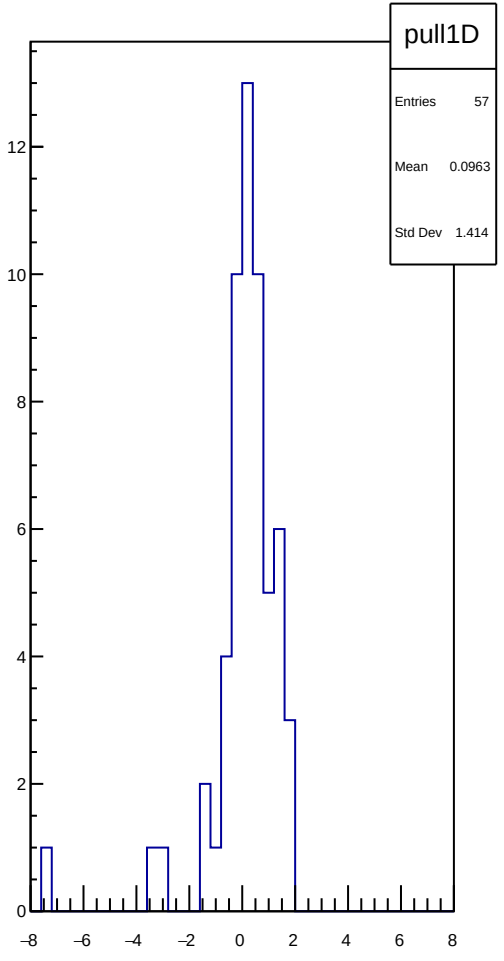

pull1D
Entries 57
Mean 0.502
Std Dev 1.639

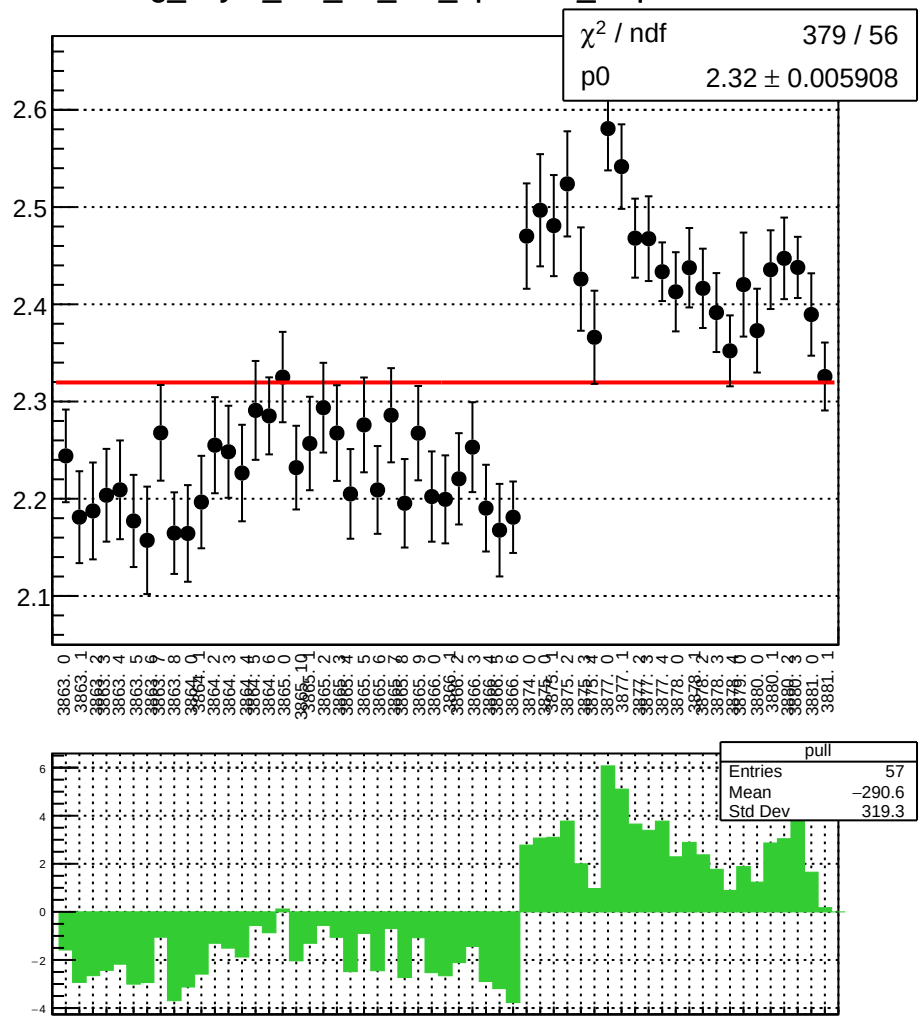

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 388.3 / 56
p0 −43.59 ± 0.1661
pull
Entries 57
Mean 325.3
Std Dev 297.2
pull1D
Entries 57
Mean 0.1129
Std Dev 2.095

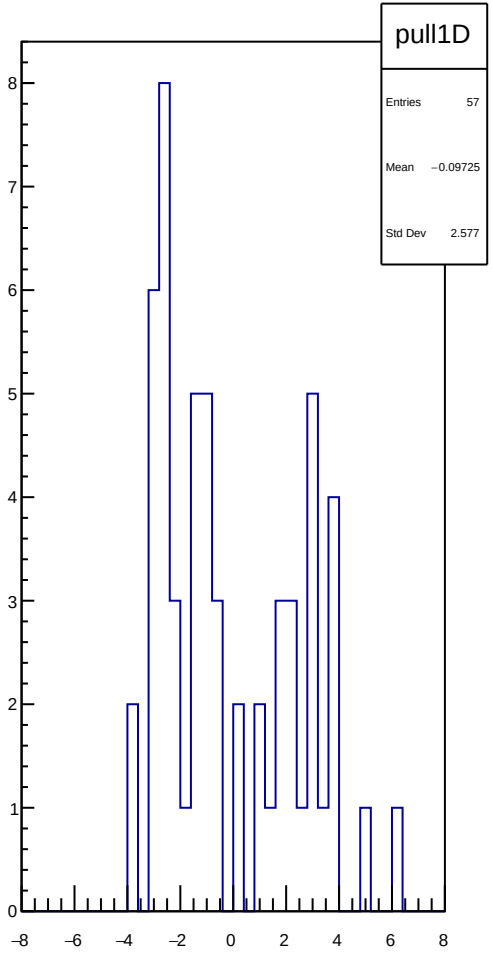

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 54.21 / 56
p0 −0.7372 ± 0.0348
pull
Entries 57
Mean 304
Std Dev 272.4

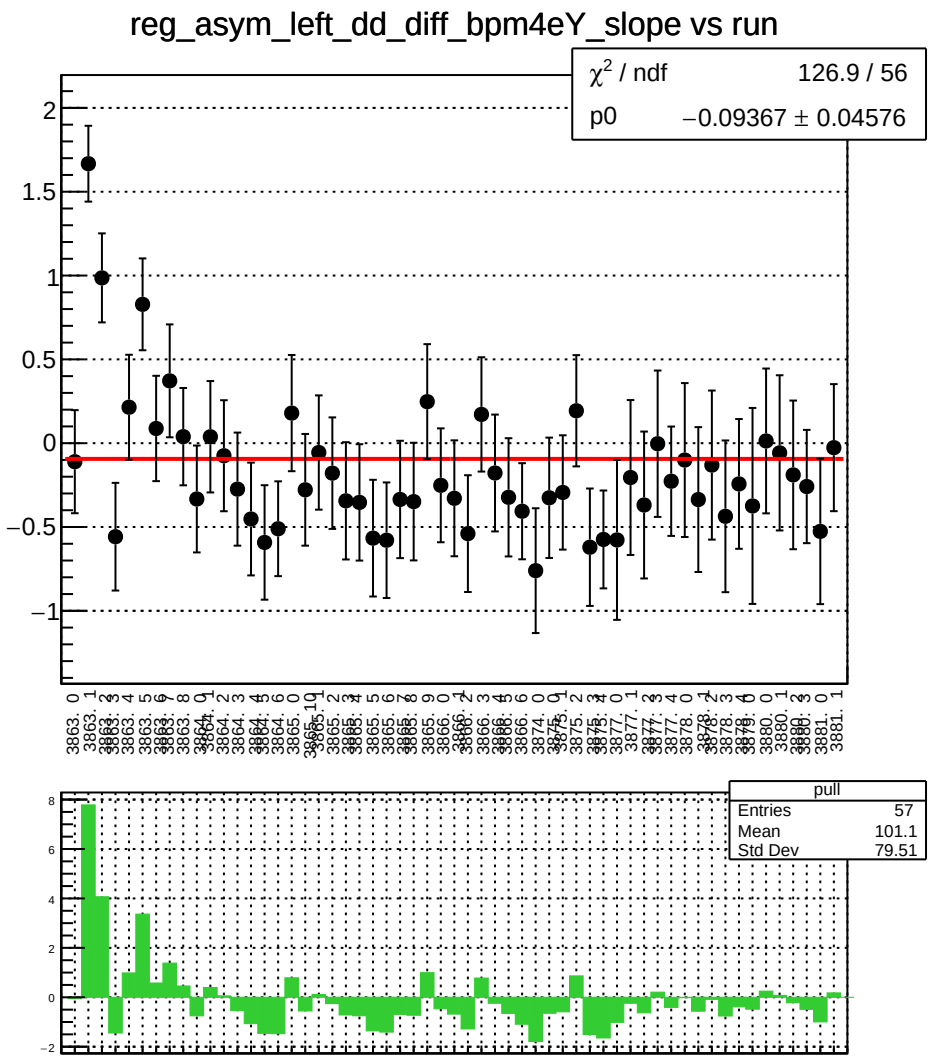

pull1D
Entries 57
Mean −0.01889
Std Dev 0.975

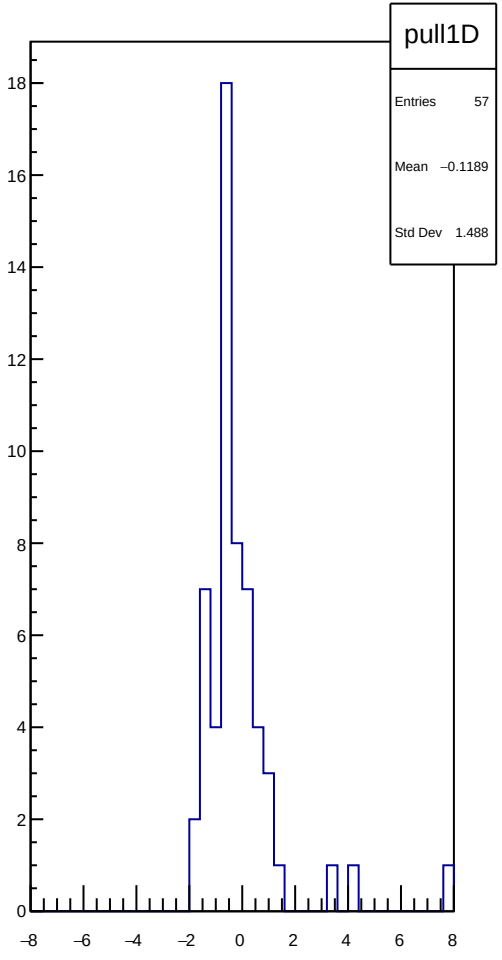

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 114.6 / 56
p0 0.1149 ± 0.02768
pull
Entries 57
Mean 98.78
Std Dev 78.84

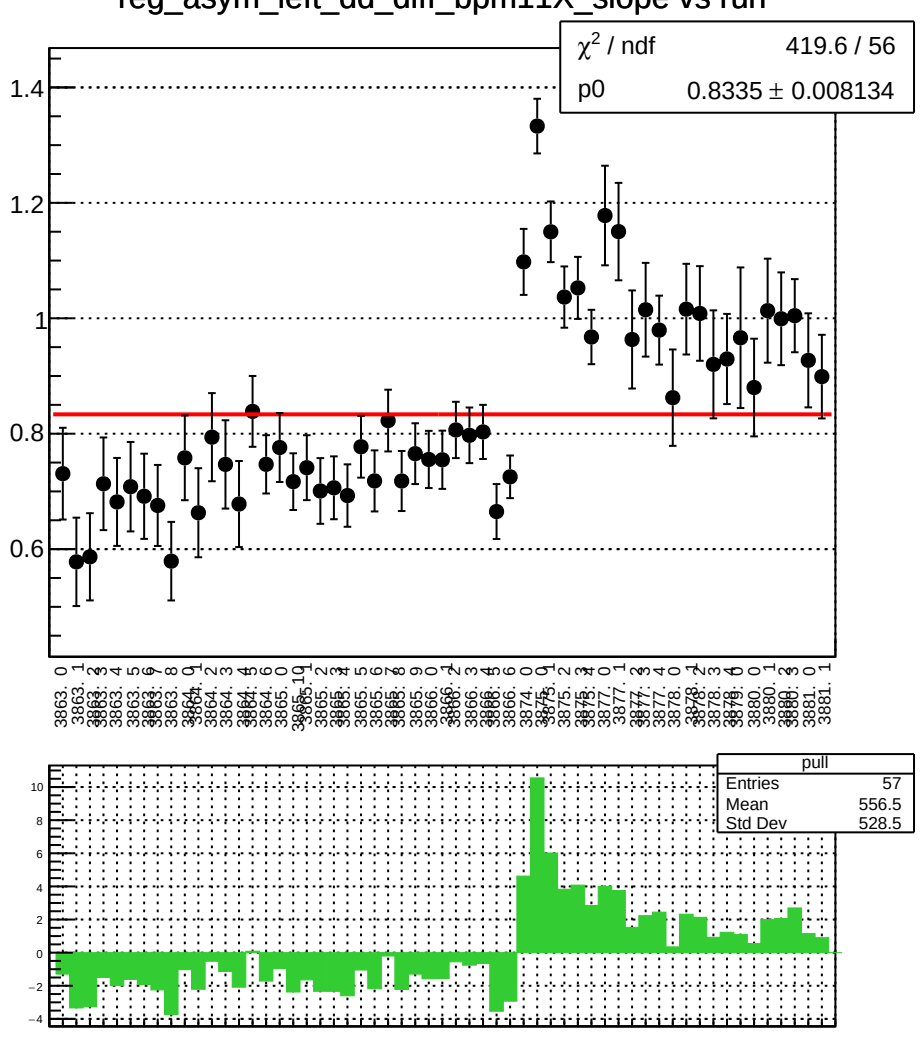

pull1D
Entries 57
Mean 0.0963
Std Dev 1.414

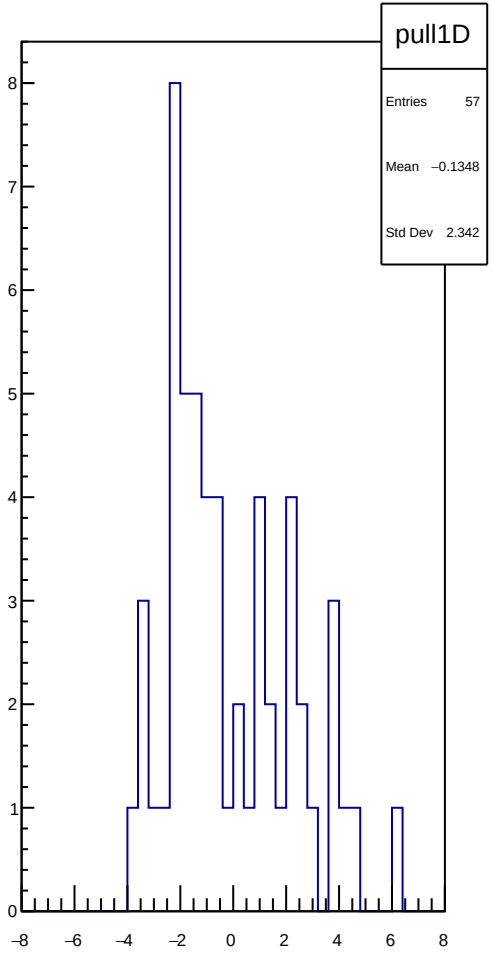

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 379 / 56
p0 2.32 ± 0.005908
pull
Entries 57
Mean −290.6
Std Dev 319.3

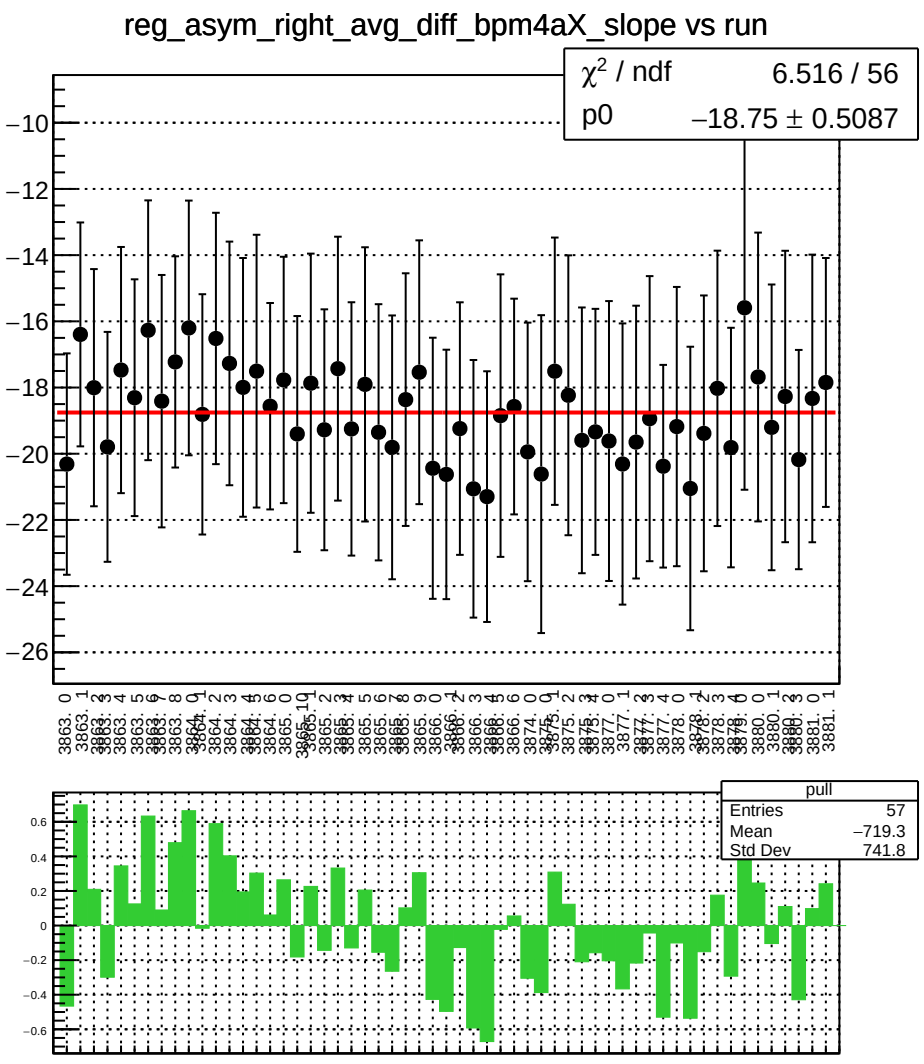

pull1D
Entries 57
Mean −0.09725
Std Dev 2.577

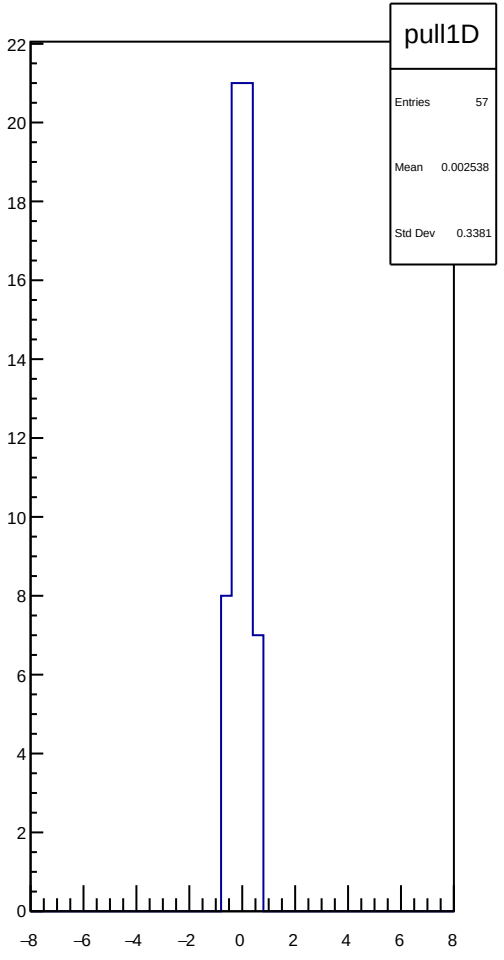

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 126.9 / 56
p0 −0.09367 ± 0.04576
pull
Entries 57
Mean 101.1
Std Dev 79.51

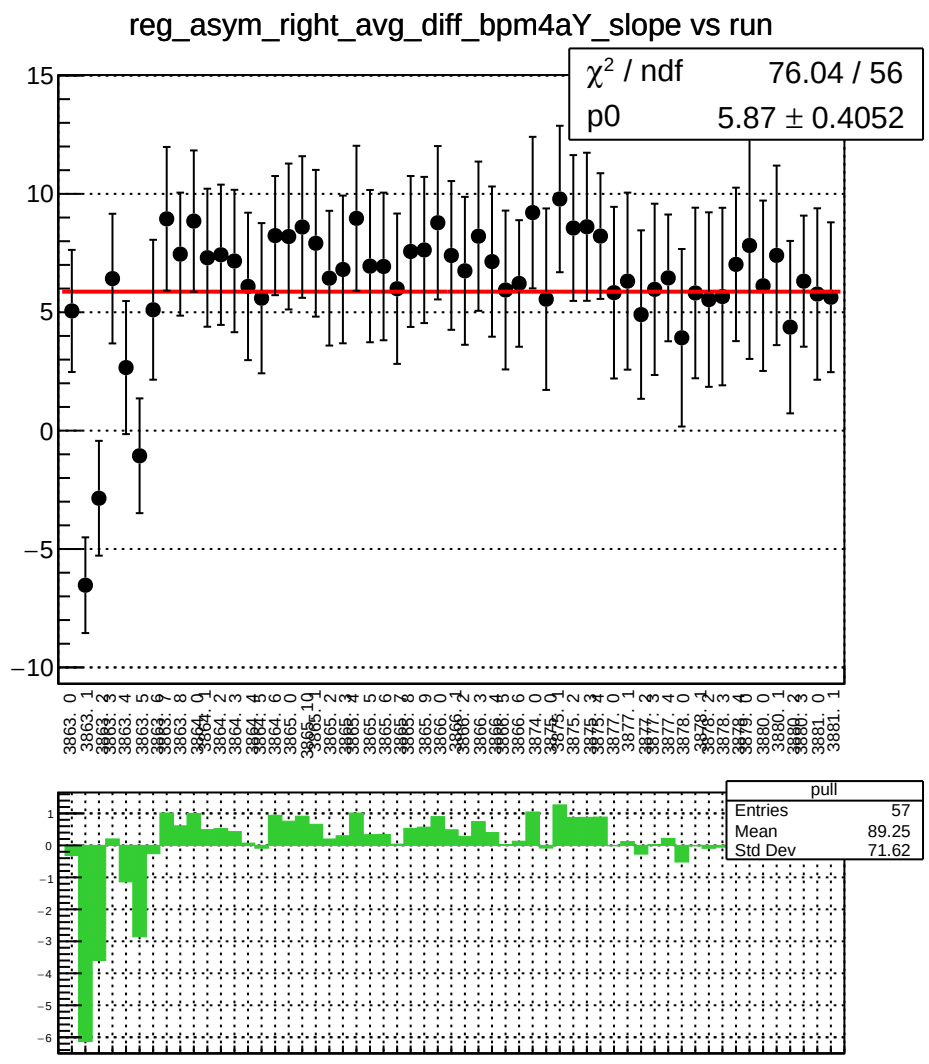

pull1D
Entries 57
Mean −0.1189
Std Dev 1.488

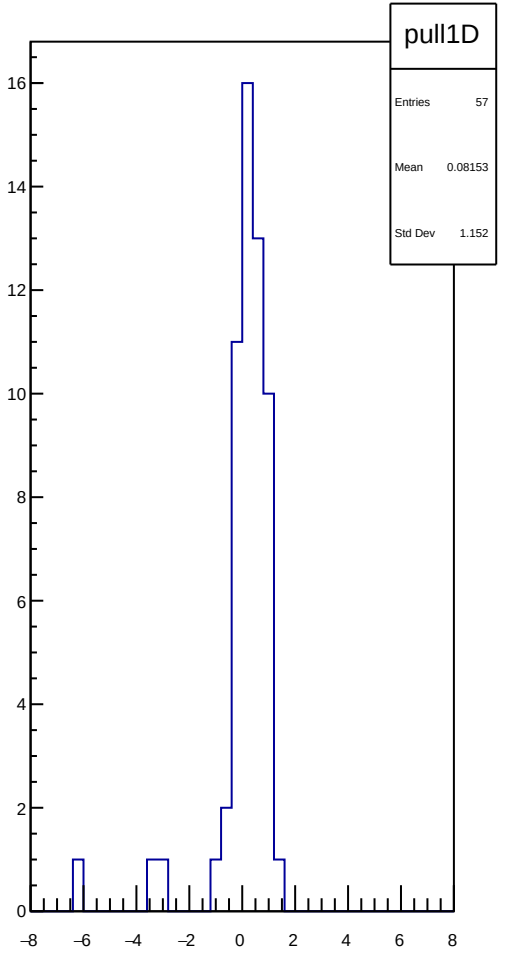

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 419.6 / 56
p0 0.8335 ± 0.008134
pull
Entries 57
Mean 556.5
Std Dev 528.5

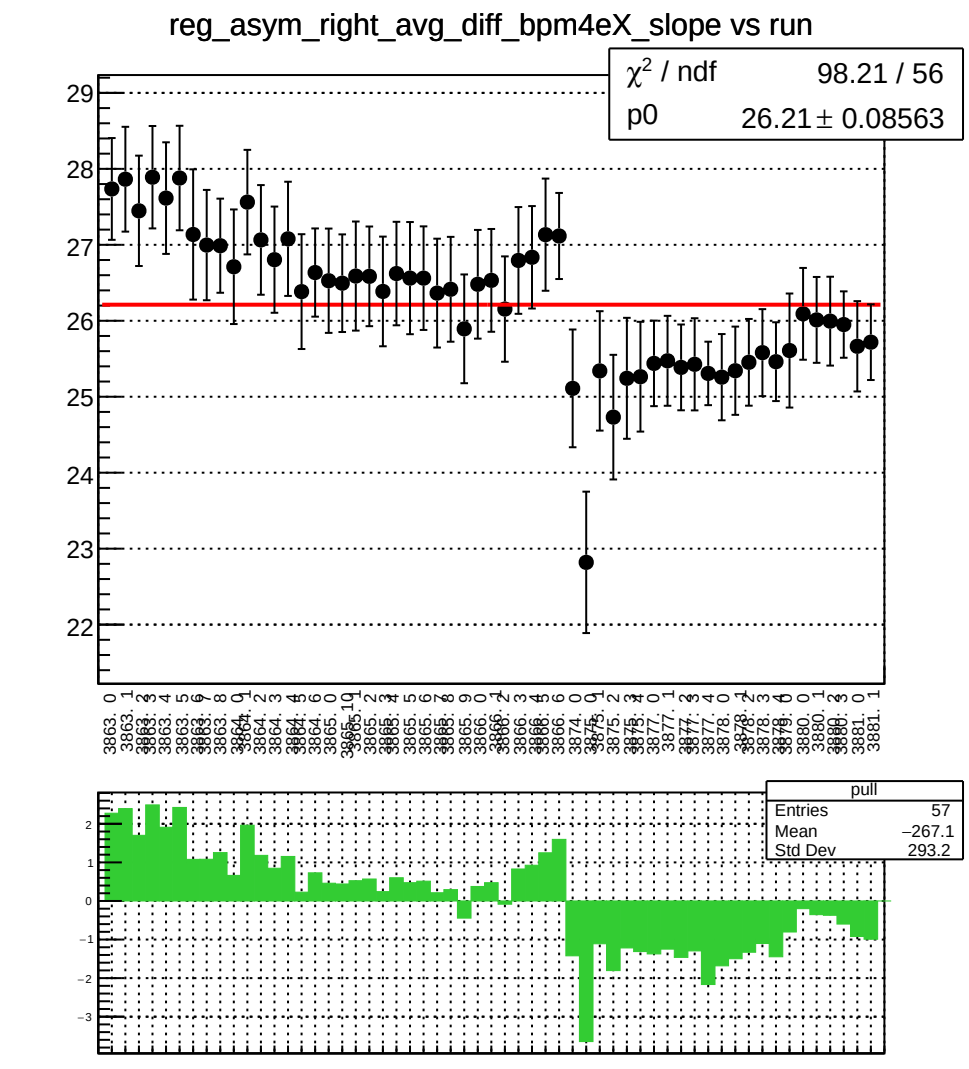

pull1D
Entries 57
Mean −0.1348
Std Dev 2.342

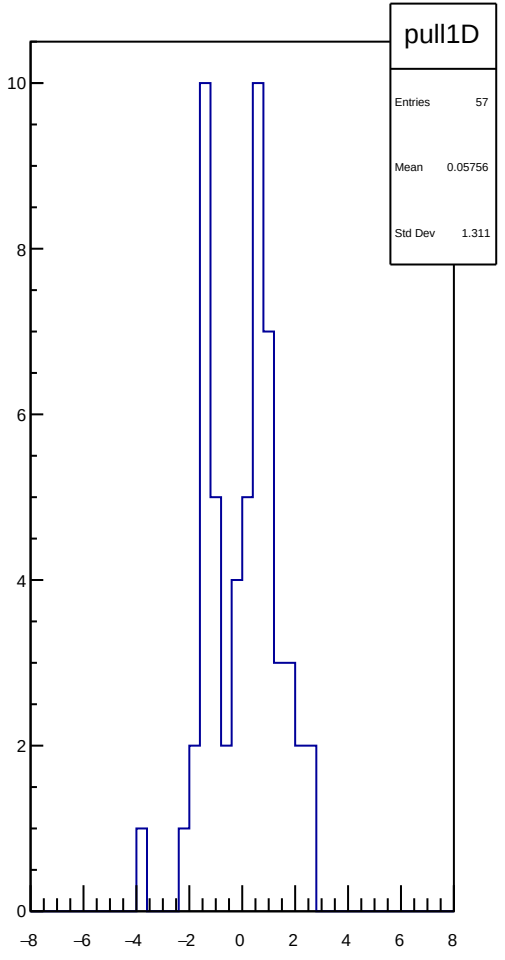

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 6.516 / 56
p0 −18.75 ± 0.5087
pull
Entries 57
Mean −719.3
Std Dev 741.8

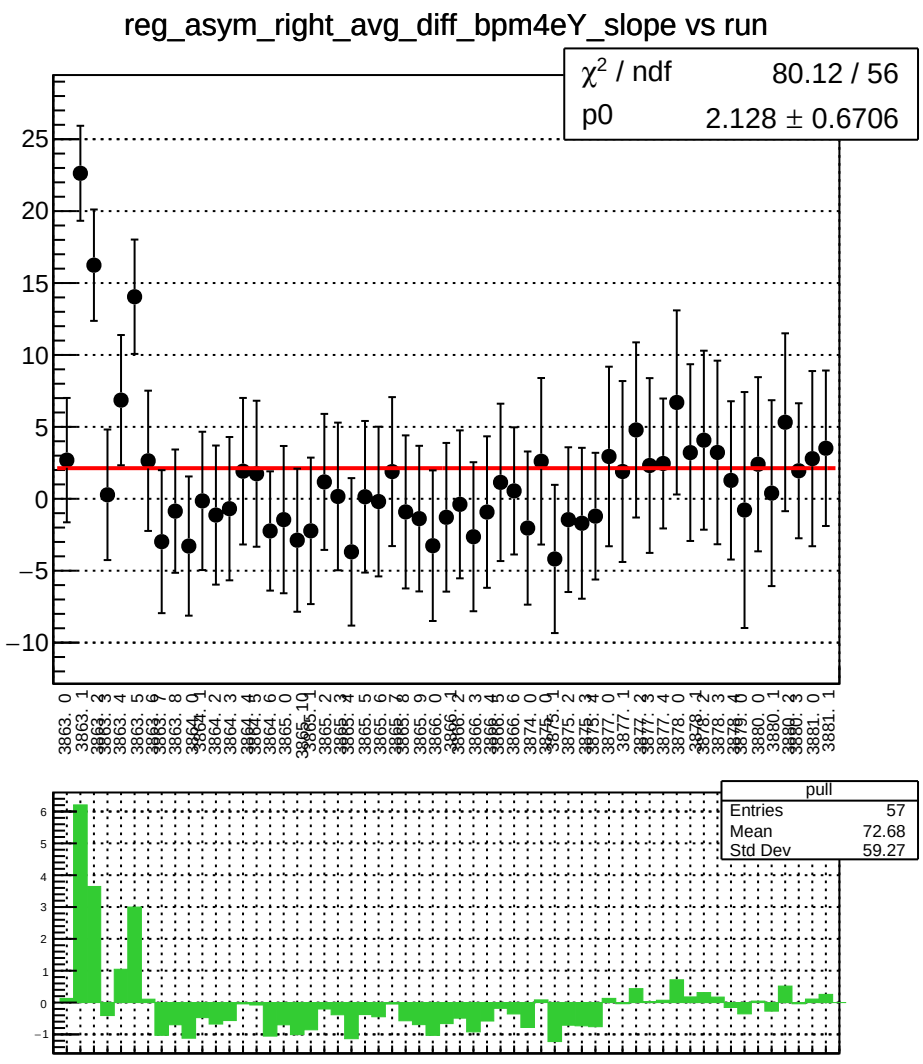

pull1D
Entries 57
Mean 0.002538
Std Dev 0.3381

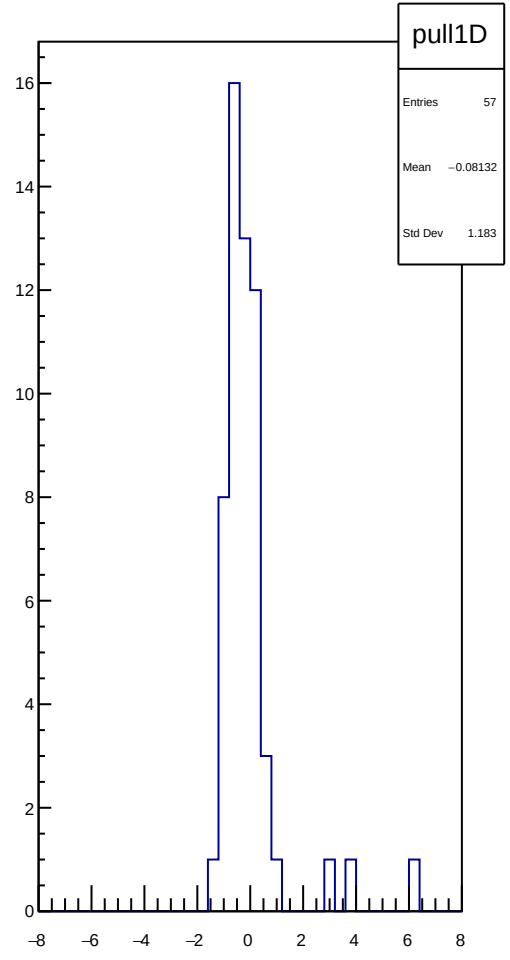

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 76.04 / 56
p0 5.87 ± 0.4052
pull
Entries 57
Mean 89.25
Std Dev 71.62

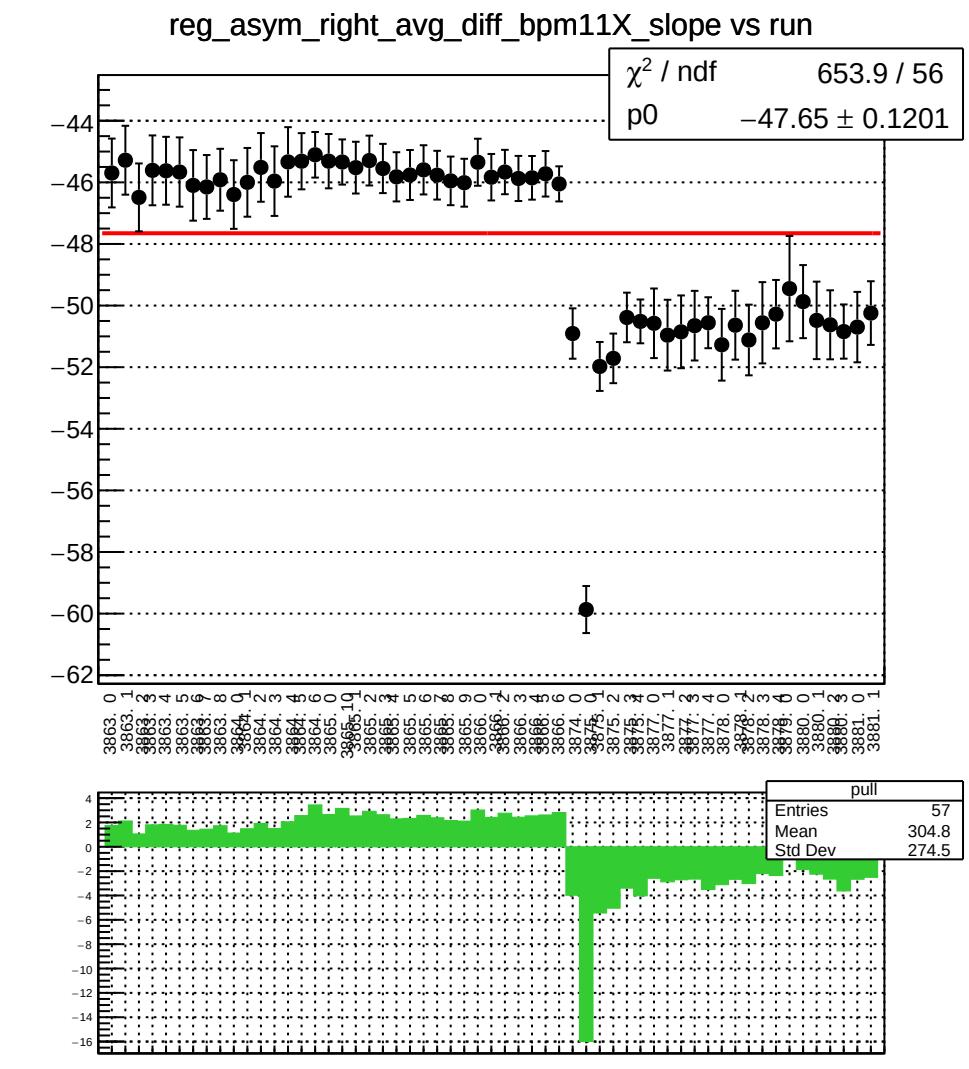

pull1D
Entries 57
Mean 0.08153
Std Dev 1.152

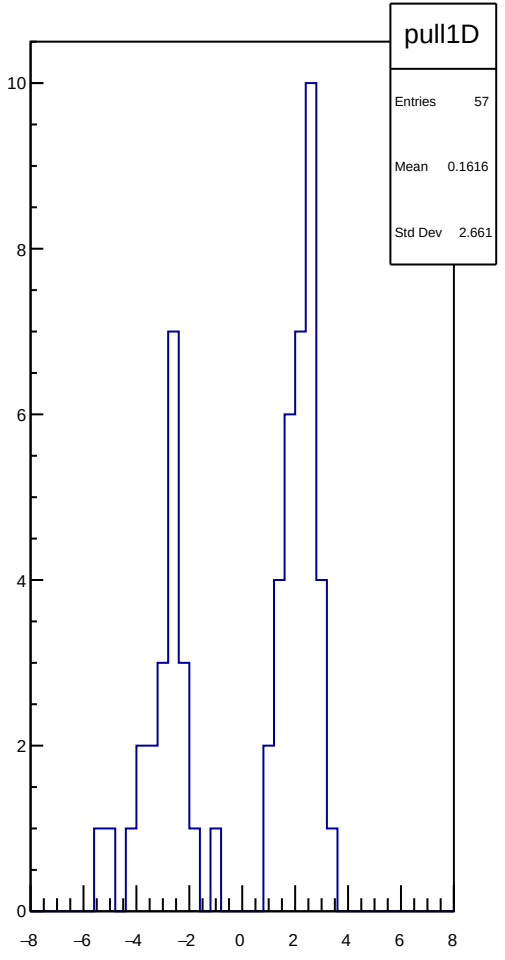

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 98.21 / 56
p0 26.21 ± 0.08563
pull
Entries 57
Mean −267.1
Std Dev 293.2

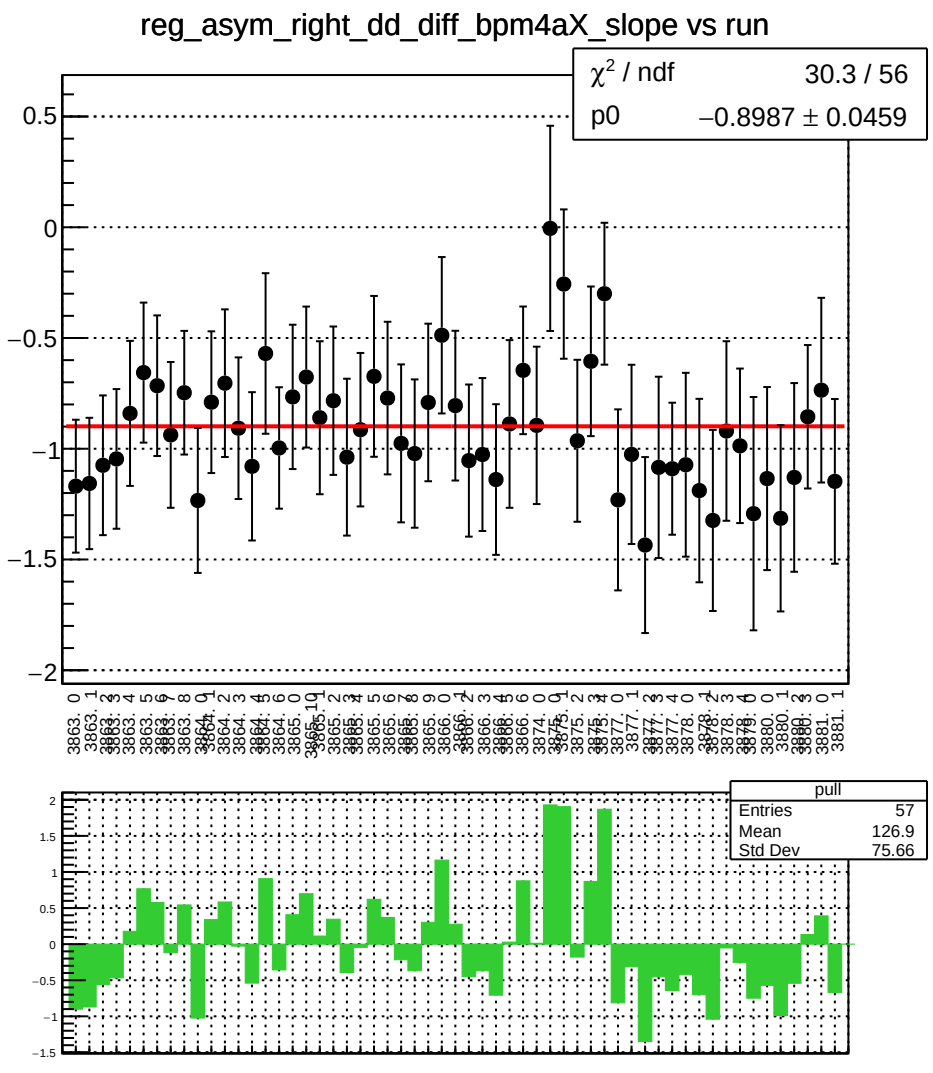

pull1D
Entries 57
Mean 0.05756
Std Dev 1.311

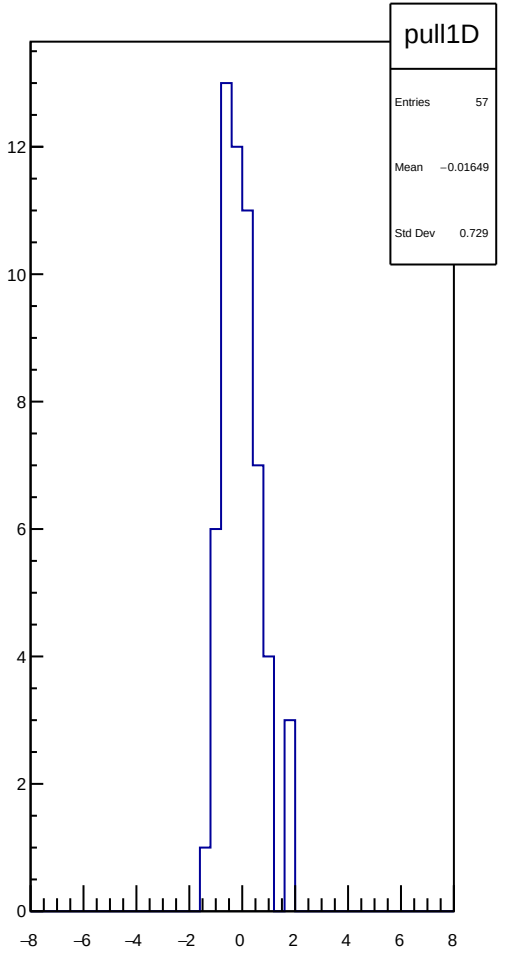

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 80.12 / 56
p0 2.128 ± 0.6706
pull
Entries 57
Mean 72.68
Std Dev 59.27

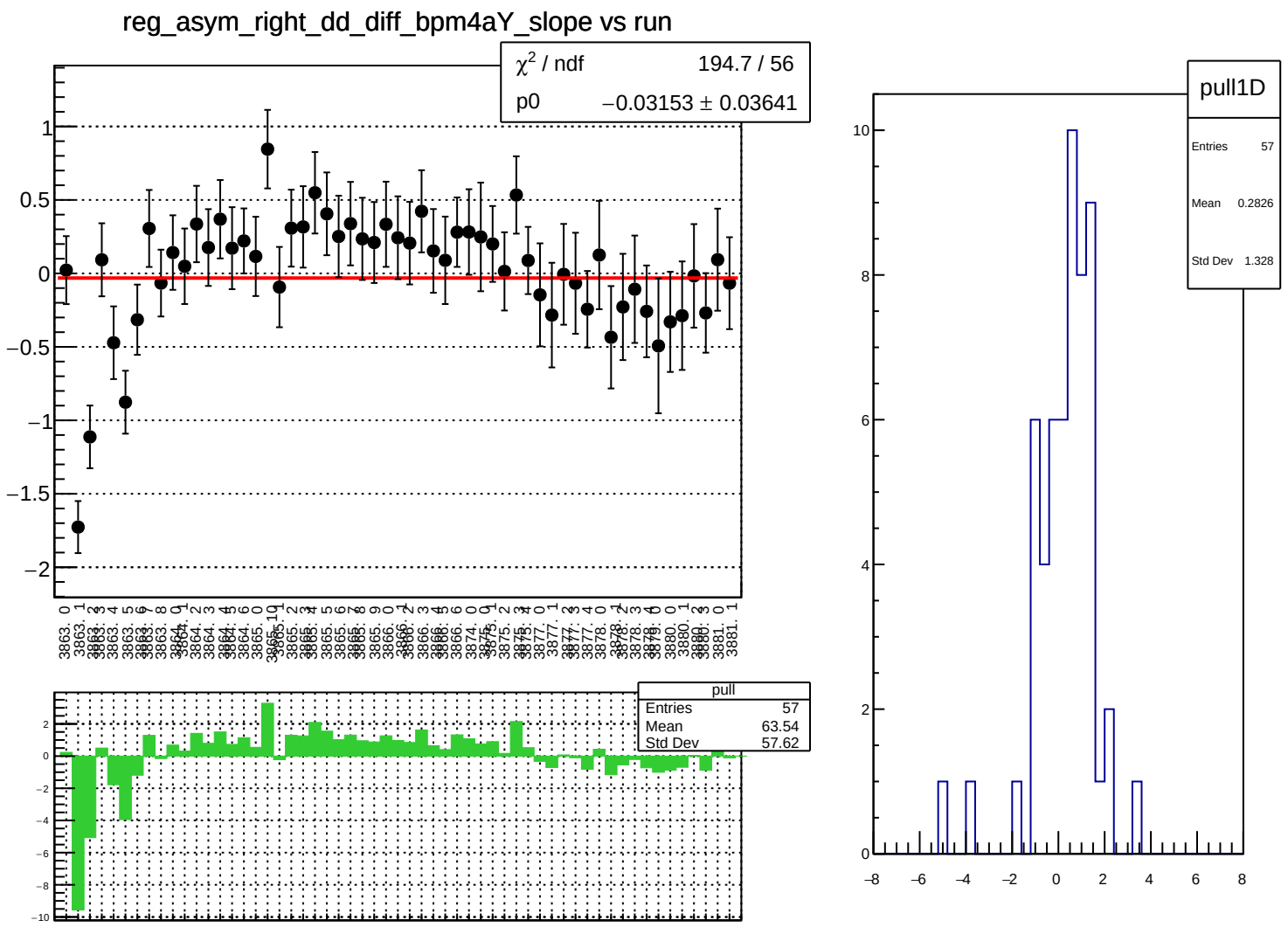

pull1D
Entries 57
Mean −0.08132
Std Dev 1.183

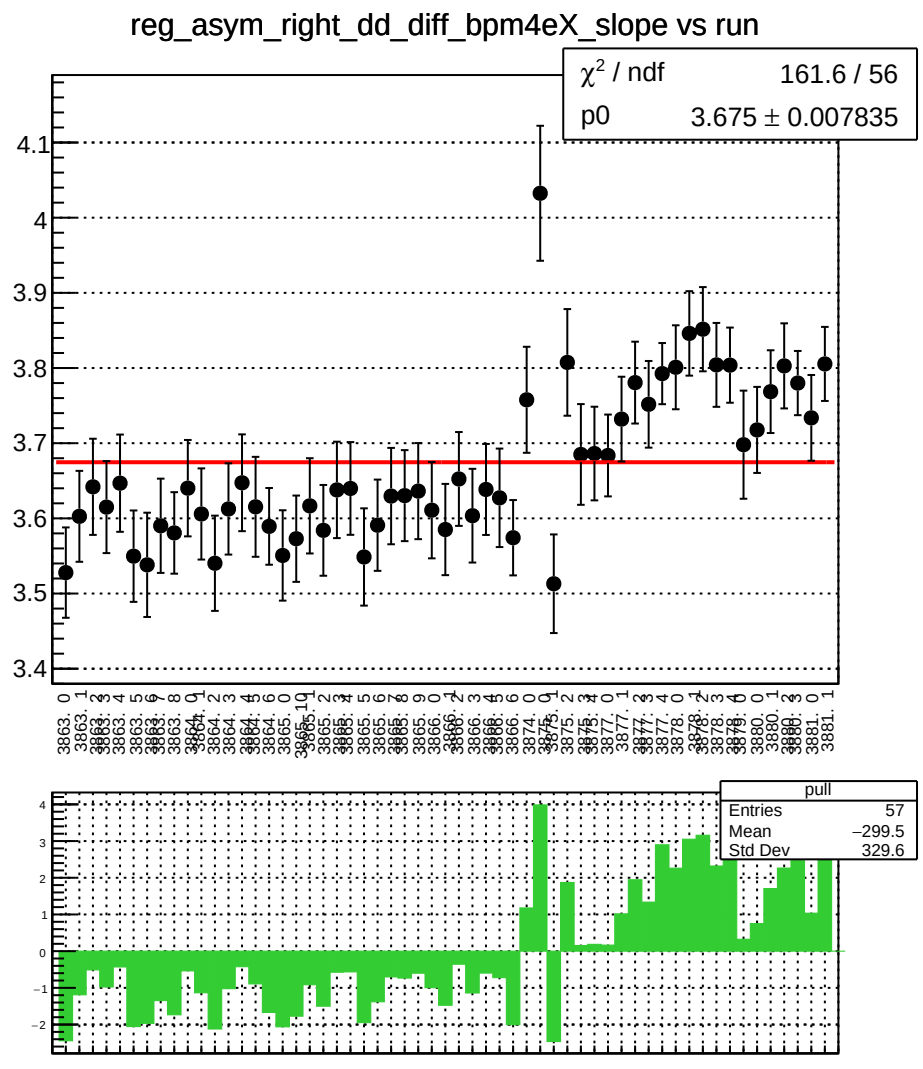

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 653.9 / 56
p0 −47.65 ± 0.1201
pull
Entries 57
Mean 304.8
Std Dev 274.5

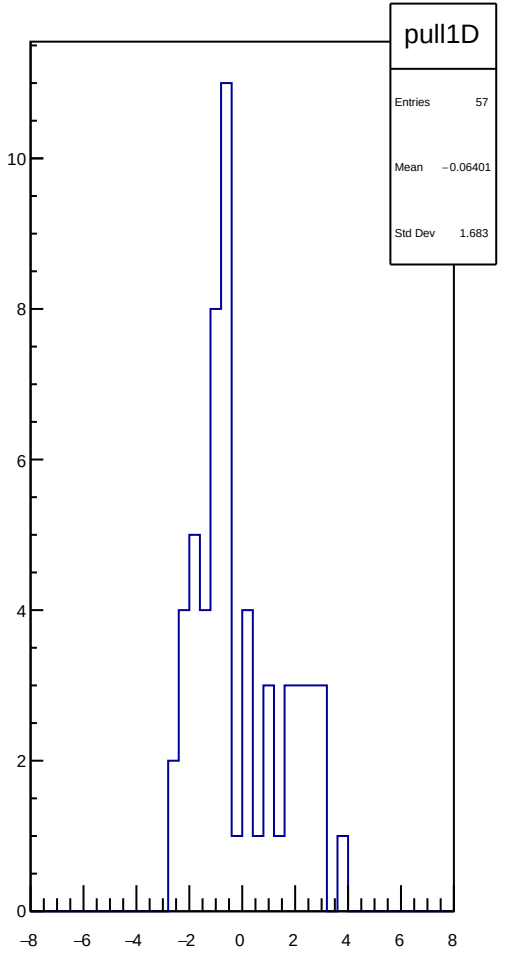

pull1D
Entries 57
Mean 0.1616
Std Dev 2.661

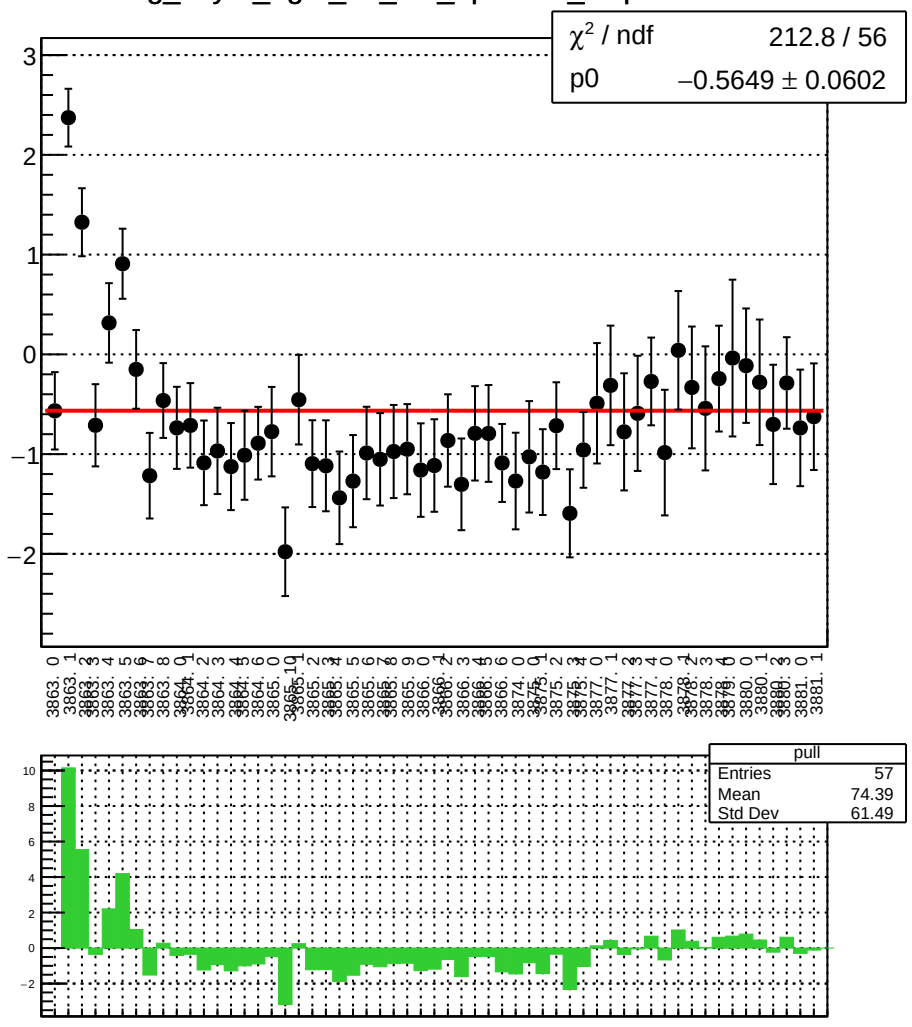

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 30.3 / 56
p0 −0.8987 ± 0.0459
pull
Entries 57
Mean 126.9
Std Dev 75.66

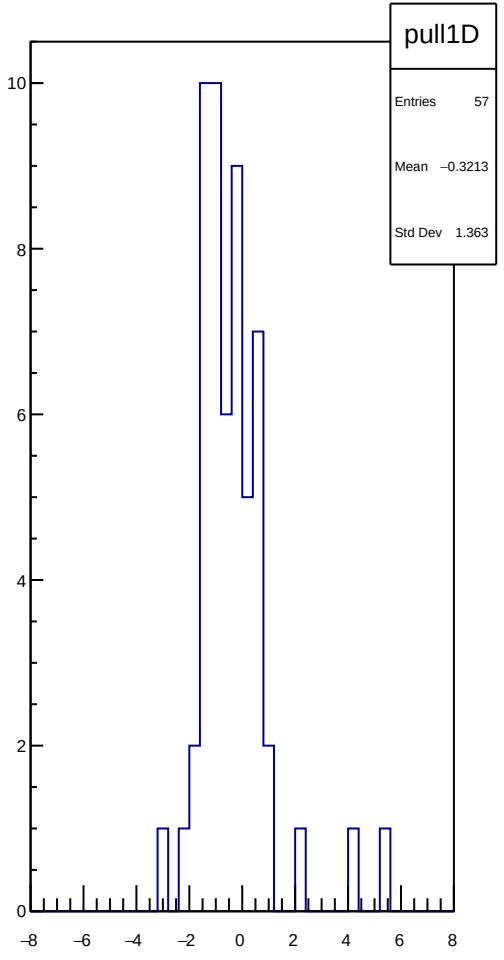

pull1D
Entries 57
Mean −0.01649
Std Dev 0.729

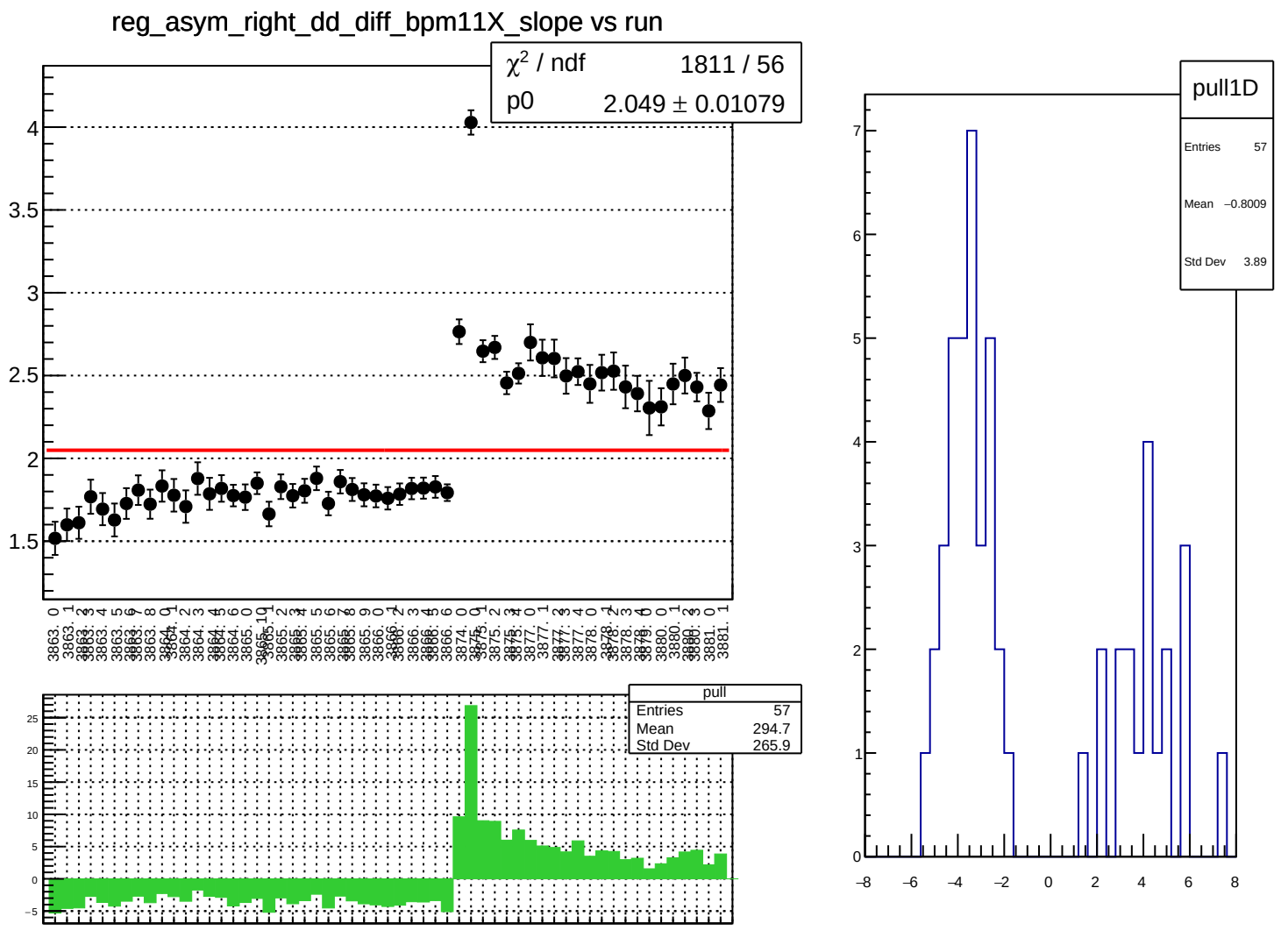

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 194.7 / 56
p0 −0.03153 ± 0.03641
pull
Entries 57
Mean 63.54
Std Dev 57.62
pull1D
Entries 57
Mean 0.2826
Std Dev 1.328

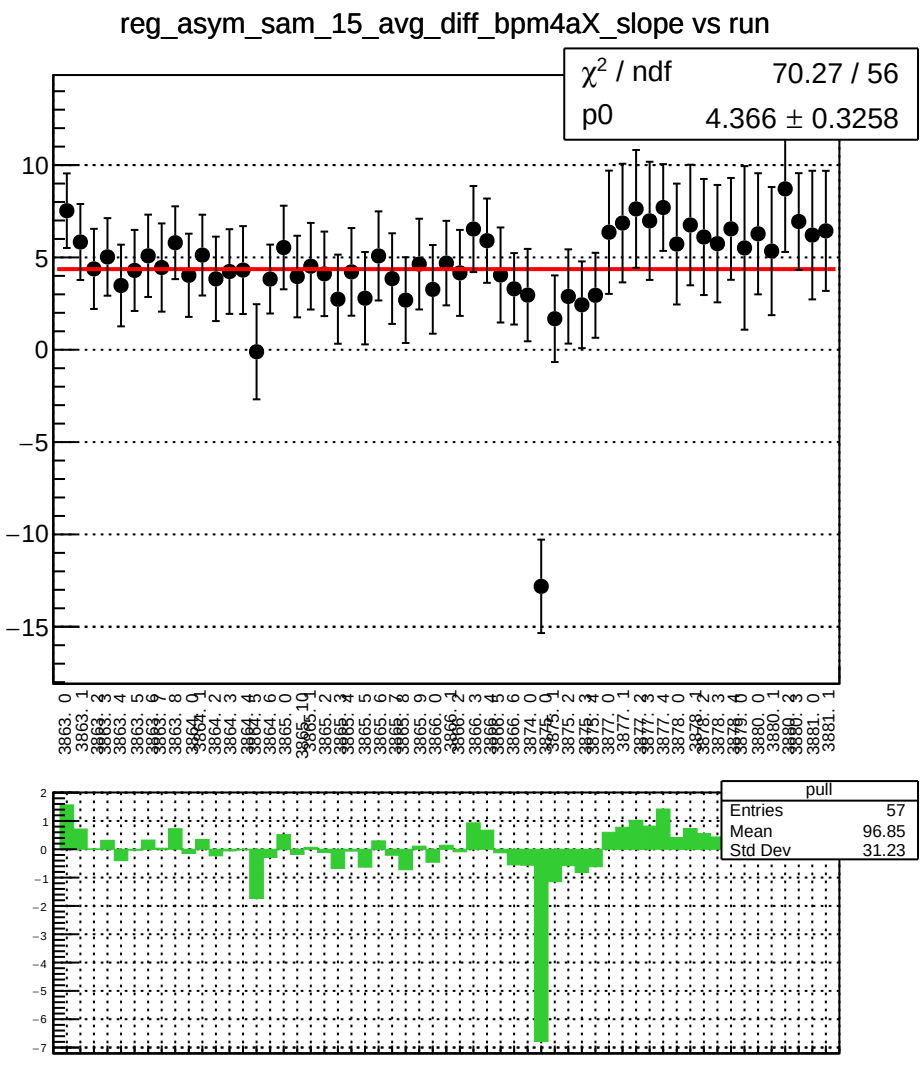

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 161.6 / 56
p0 3.675 ± 0.007835
pull
Entries 57
Mean −299.5
Std Dev 329.6

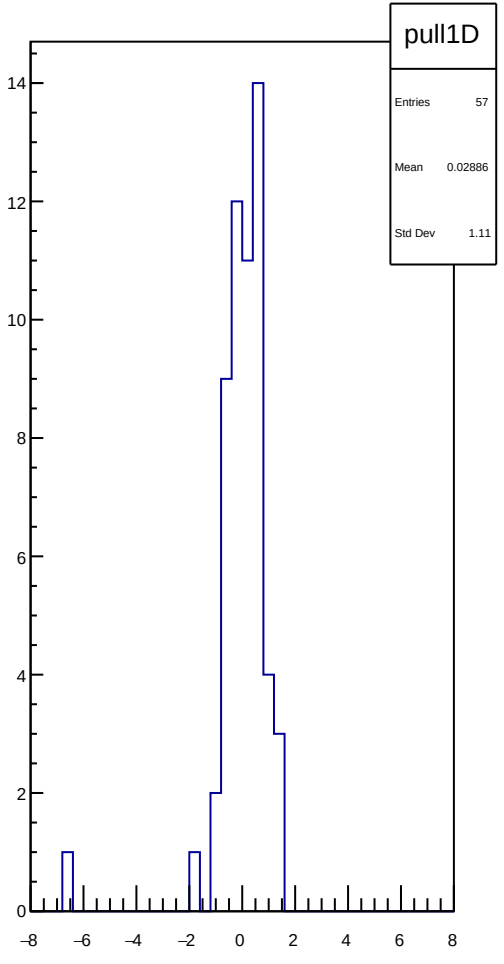

pull1D
Entries 57
Mean −0.06401
Std Dev 1.683

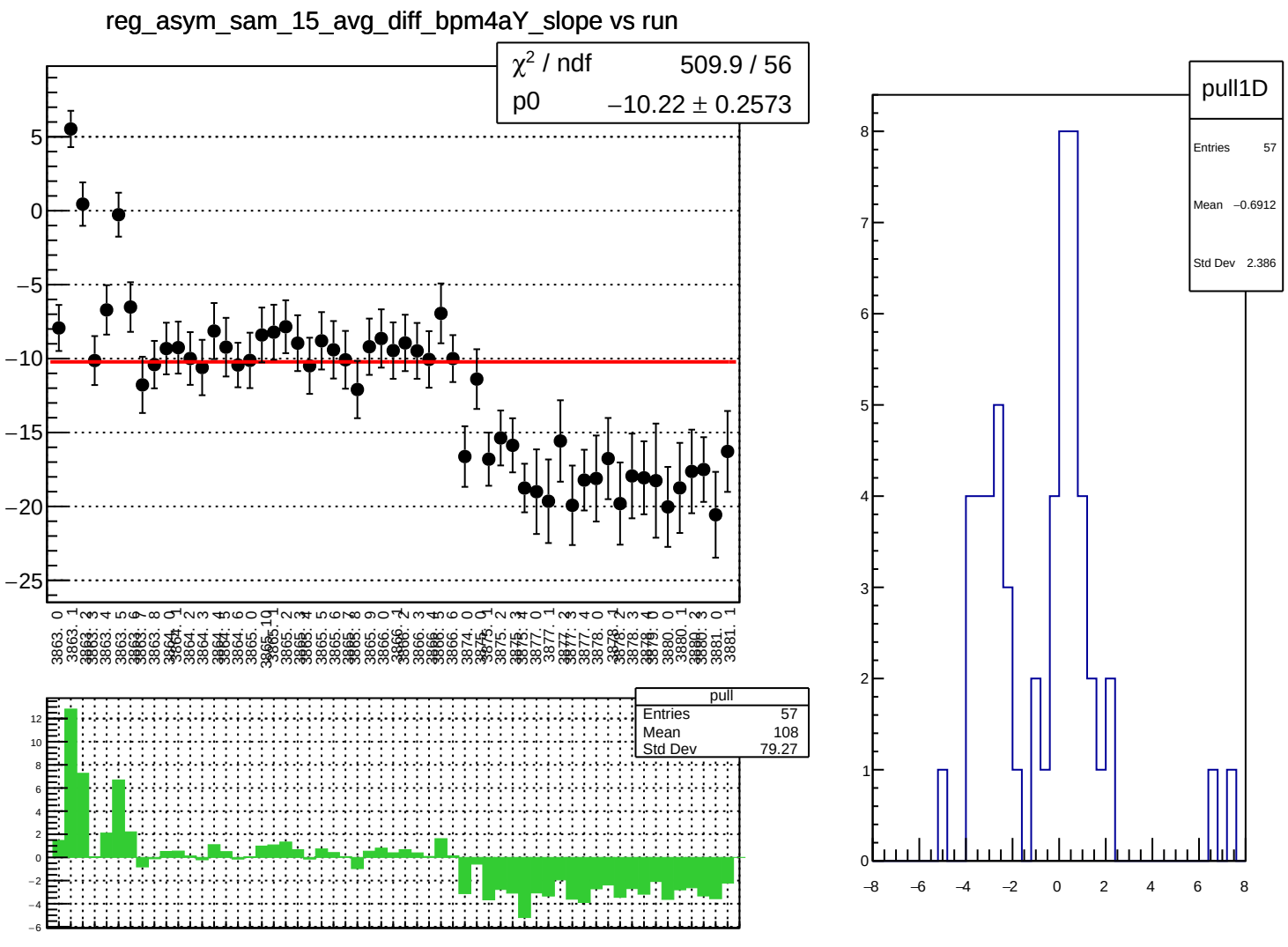

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 212.8 / 56
p0 −0.5649 ± 0.0602
pull
Entries 57
Mean 74.39
Std Dev 61.49

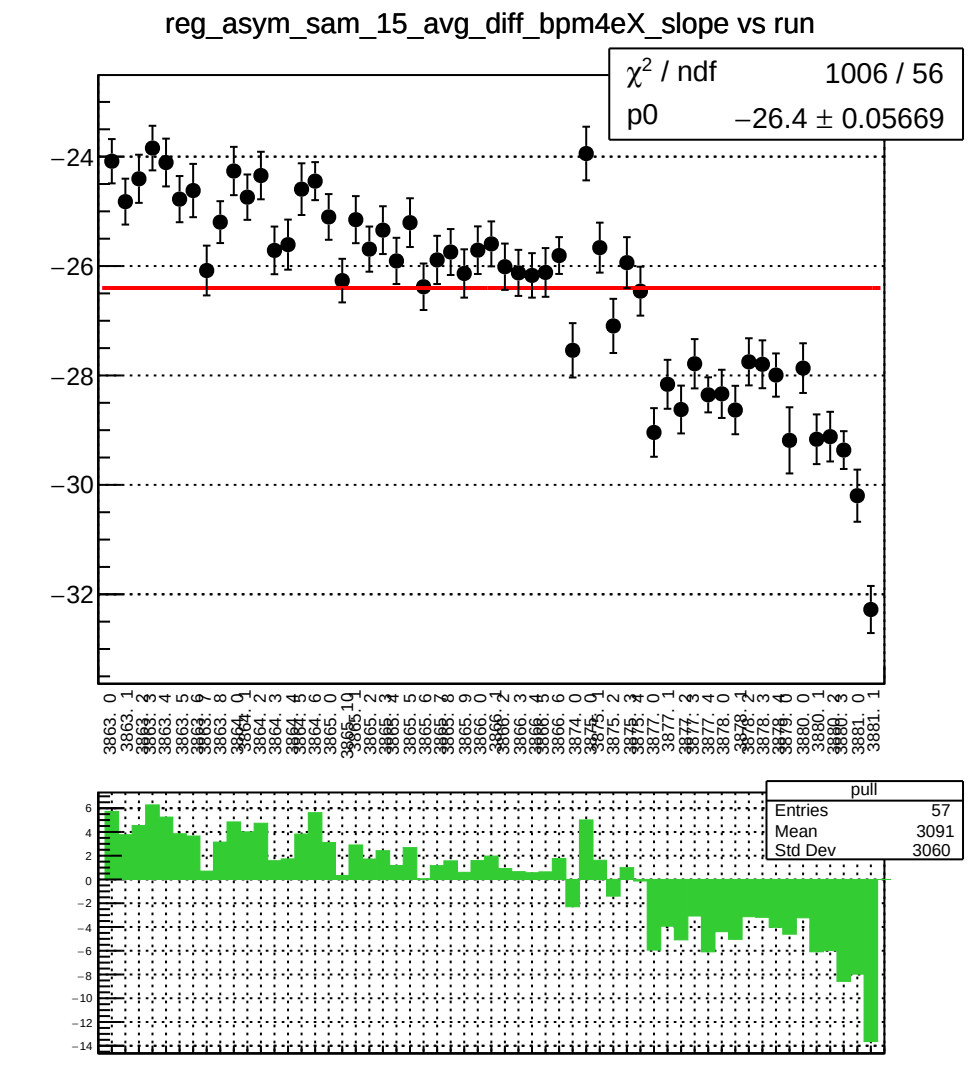

pull1D
Entries 57
Mean −0.3213
Std Dev 1.363

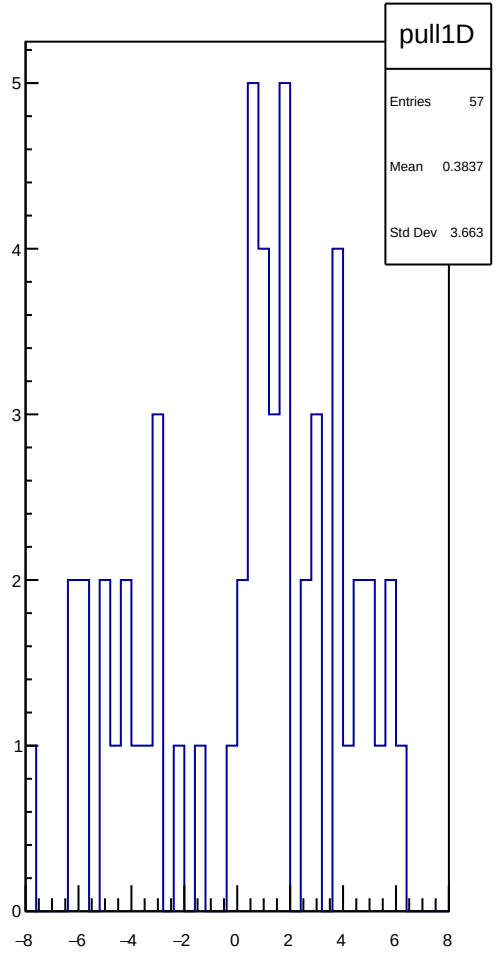

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 1811 / 56
p0 2.049 ± 0.01079
pull
Entries 57
Mean 294.7
Std Dev 265.9
pull1D
Entries 57
Mean −0.8009
Std Dev 3.89

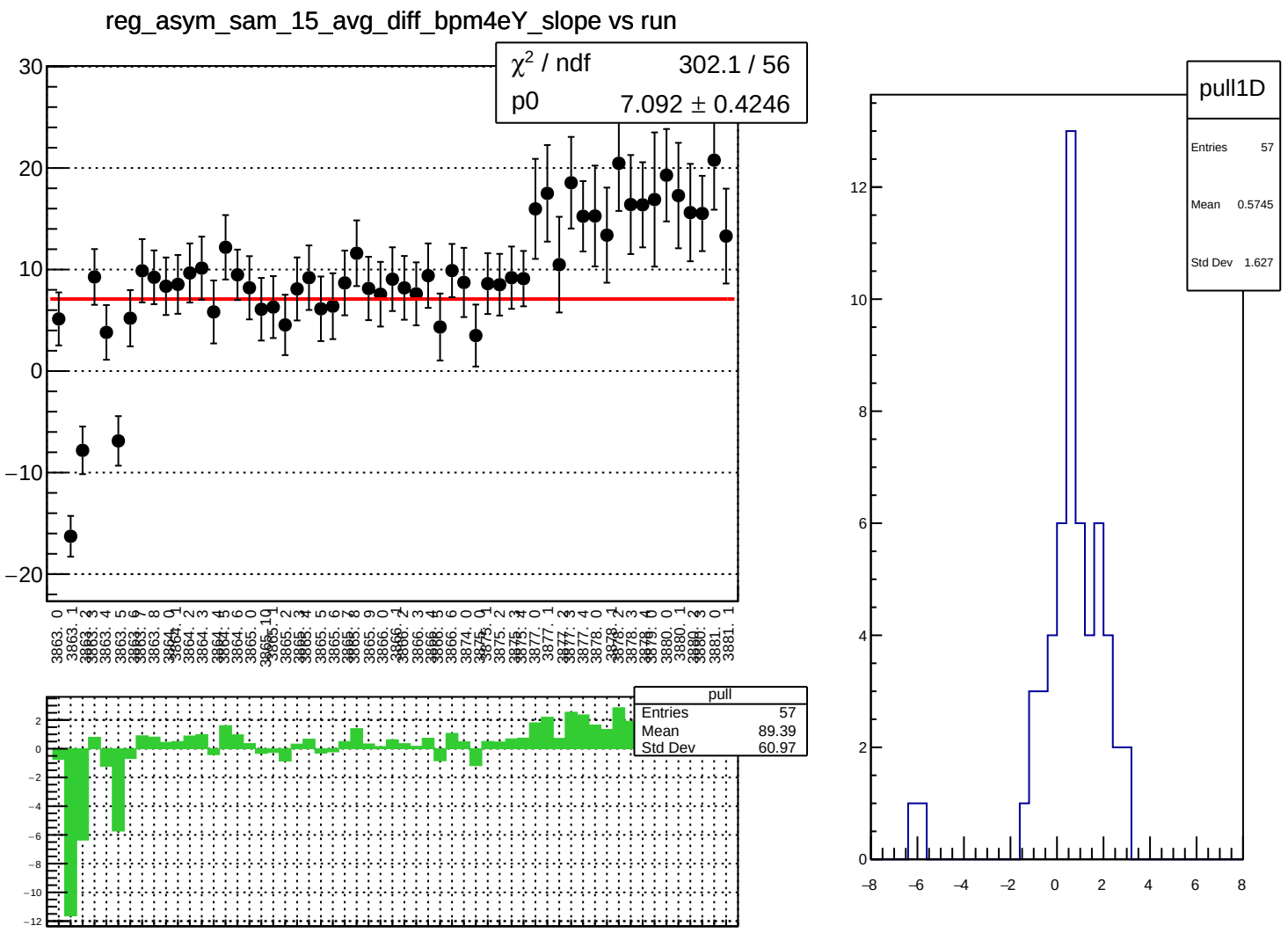

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 70.27 / 56
p0 4.366 ± 0.3258
pull
Entries 57
Mean 96.85
Std Dev 31.23

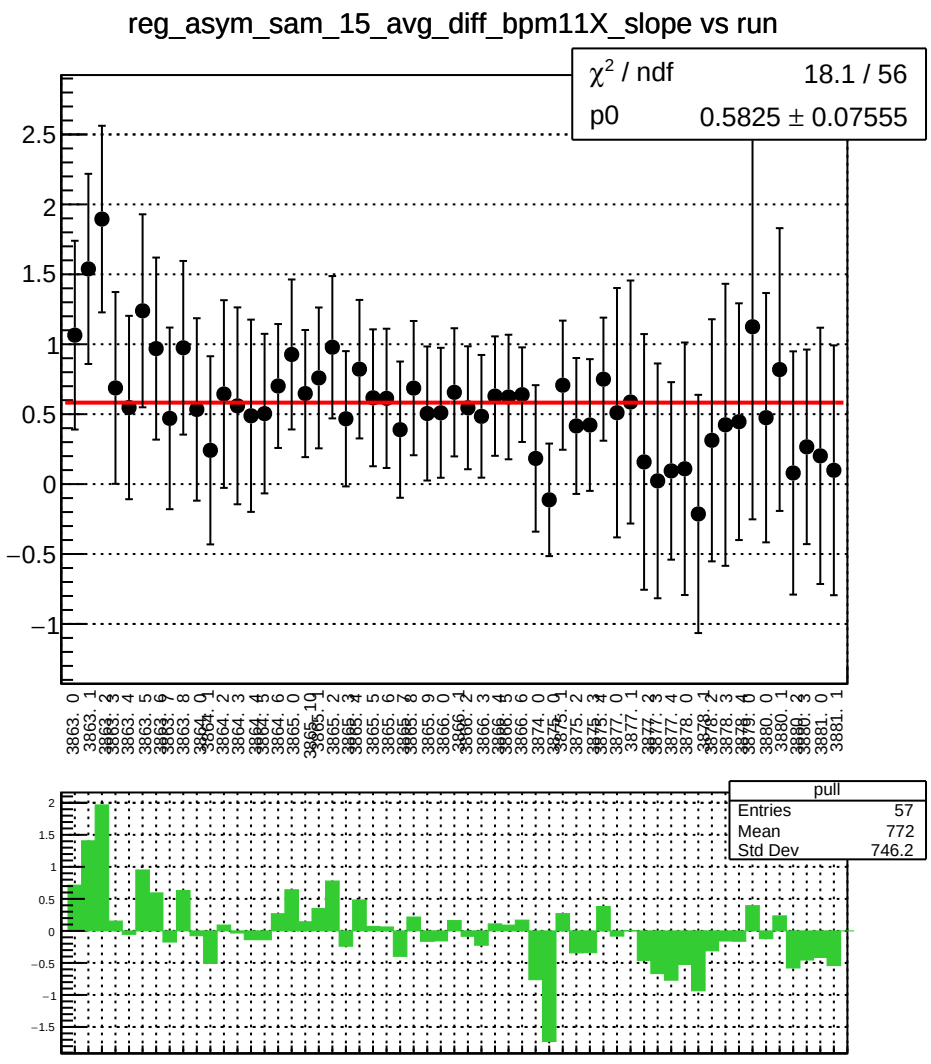

pull1D
Entries 57
Mean 0.02886
Std Dev 1.11

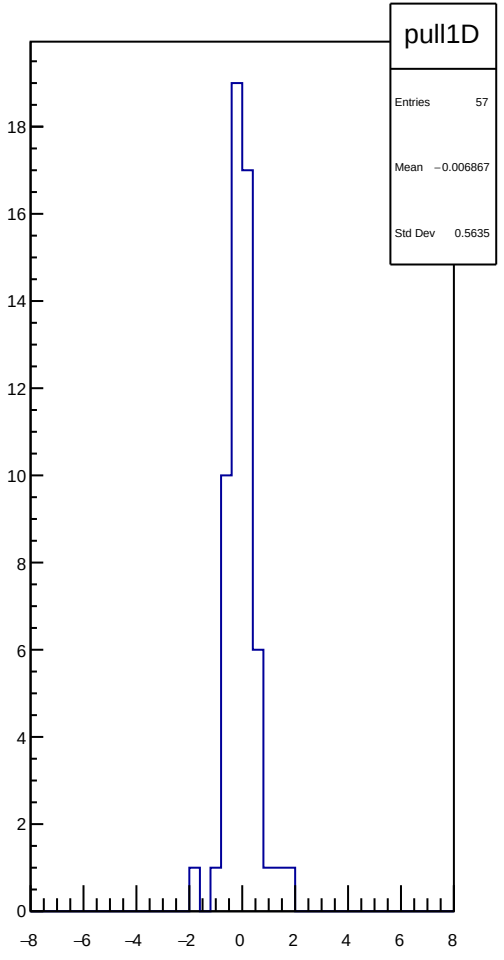

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 509.9 / 56
p0 −10.22 ± 0.2573
pull
Entries 57
Mean 108
Std Dev 79.27
pull1D
Entries 57
Mean −0.6912
Std Dev 2.386

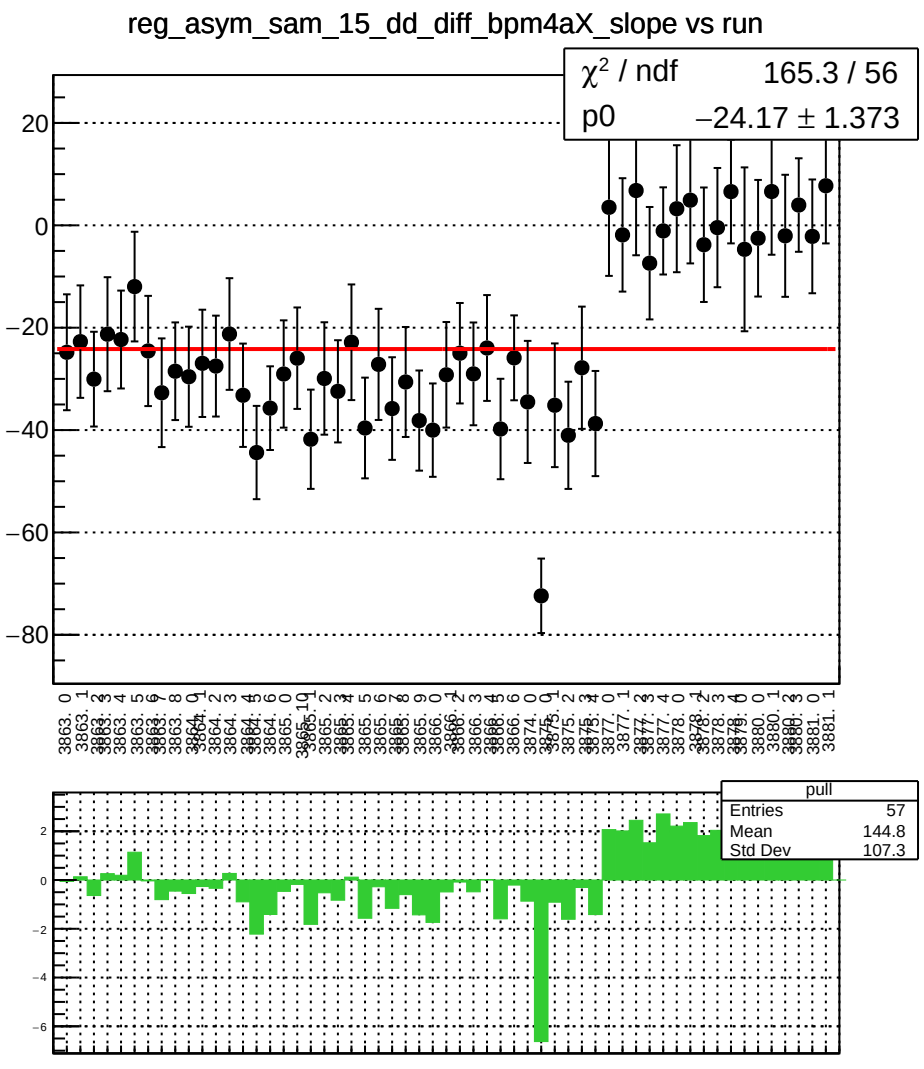

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 1006 / 56
p0 −26.4 ± 0.05669
pull
Entries 57
Mean 3091
Std Dev 3060

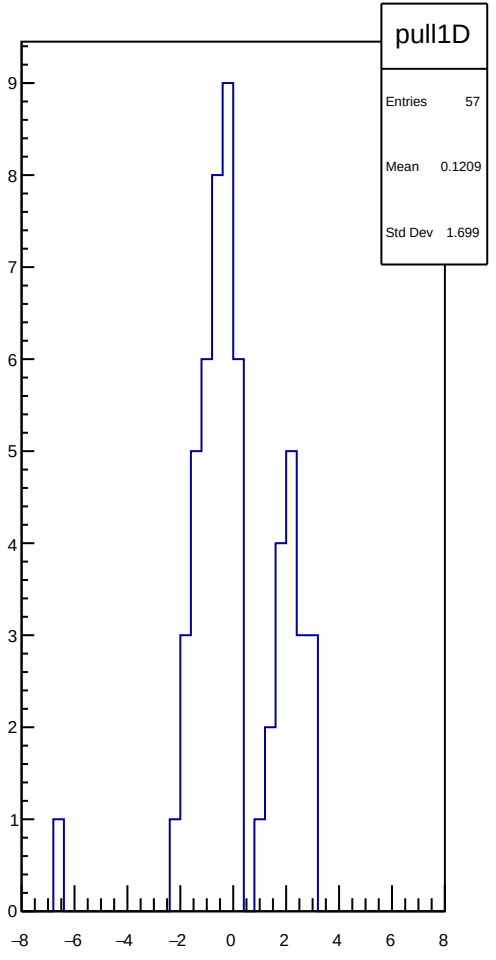

pull1D
Entries 57
Mean 0.3837
Std Dev 3.663

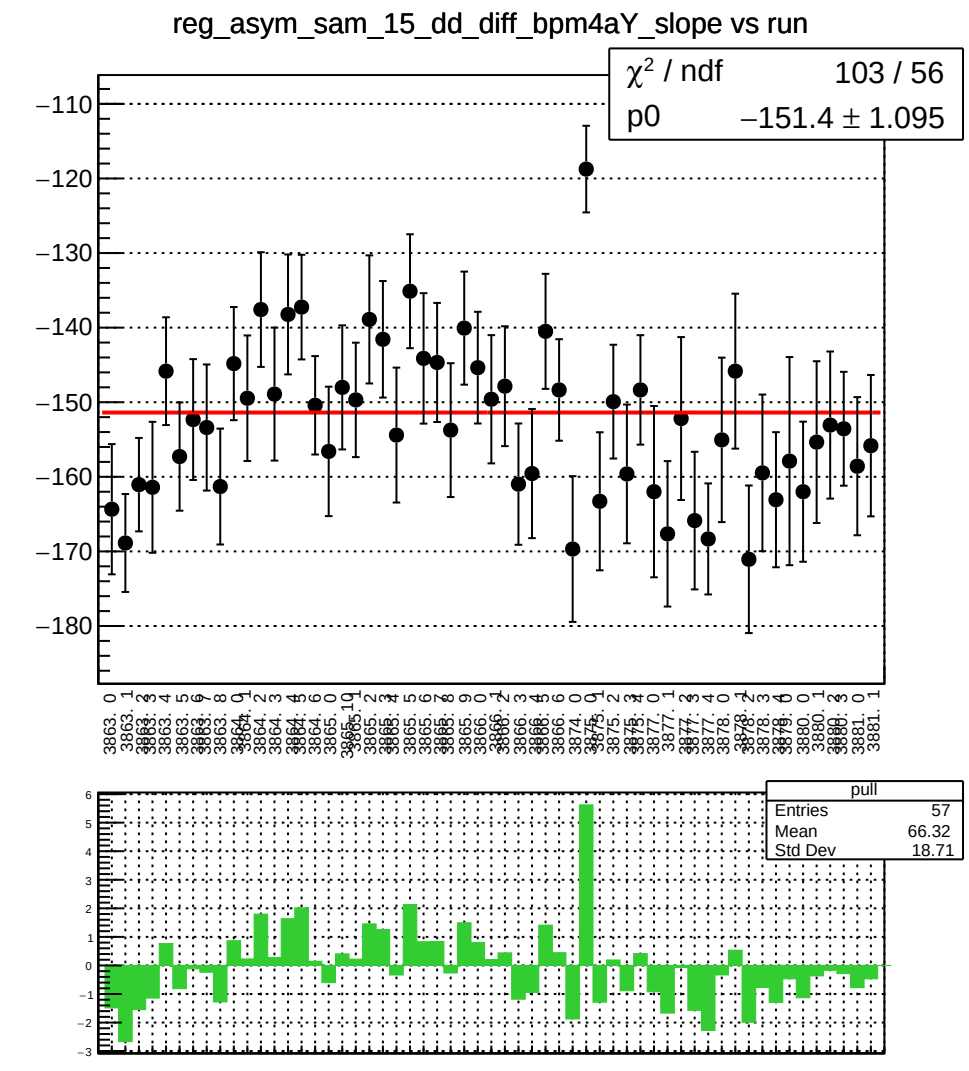

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 302.1 / 56
p0 7.092 ± 0.4246
pull
Entries 57
Mean 89.39
Std Dev 60.97
pull1D
Entries 57
Mean 0.5745
Std Dev 1.627

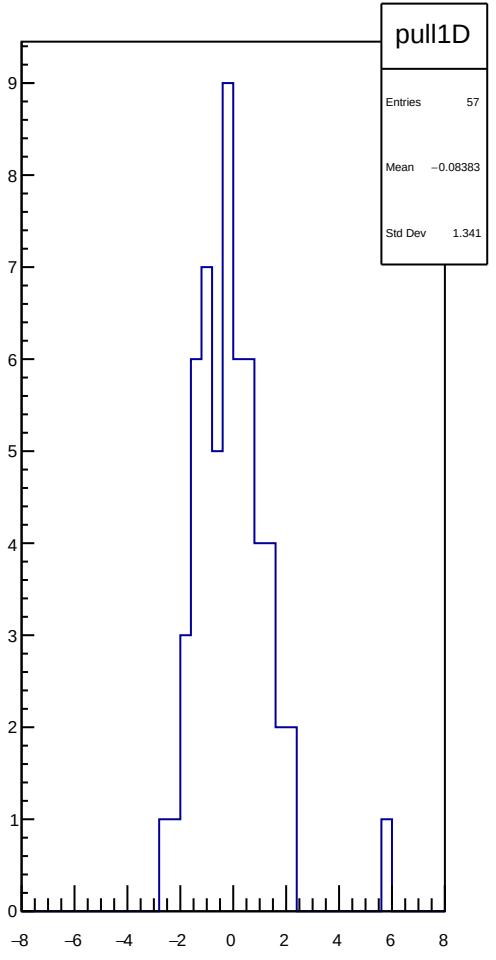

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 18.1 / 56
p0 0.5825 ± 0.07555
pull
Entries 57
Mean 772
Std Dev 746.2

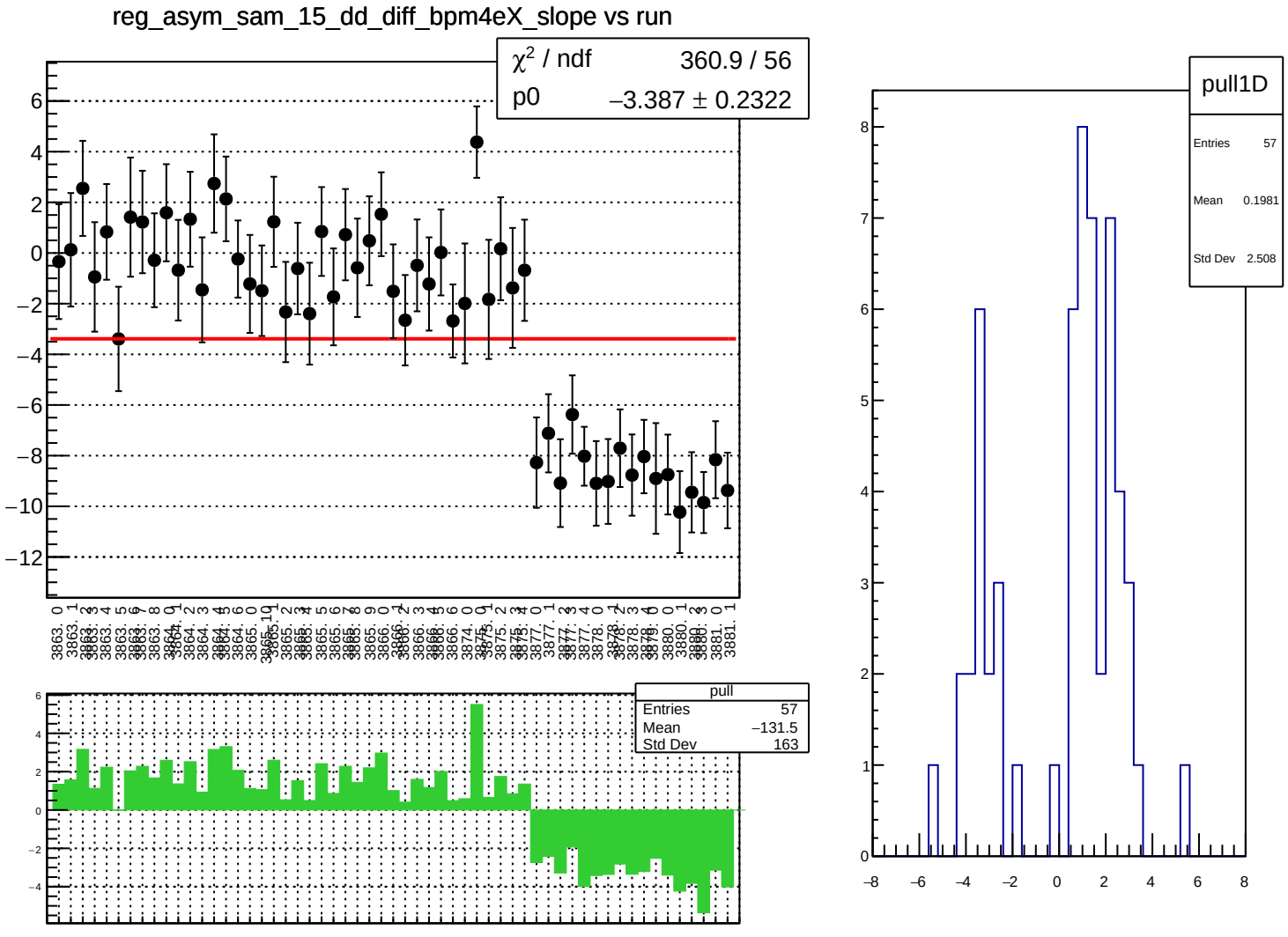

pull1D
Entries 57
Mean −0.006867
Std Dev 0.5635

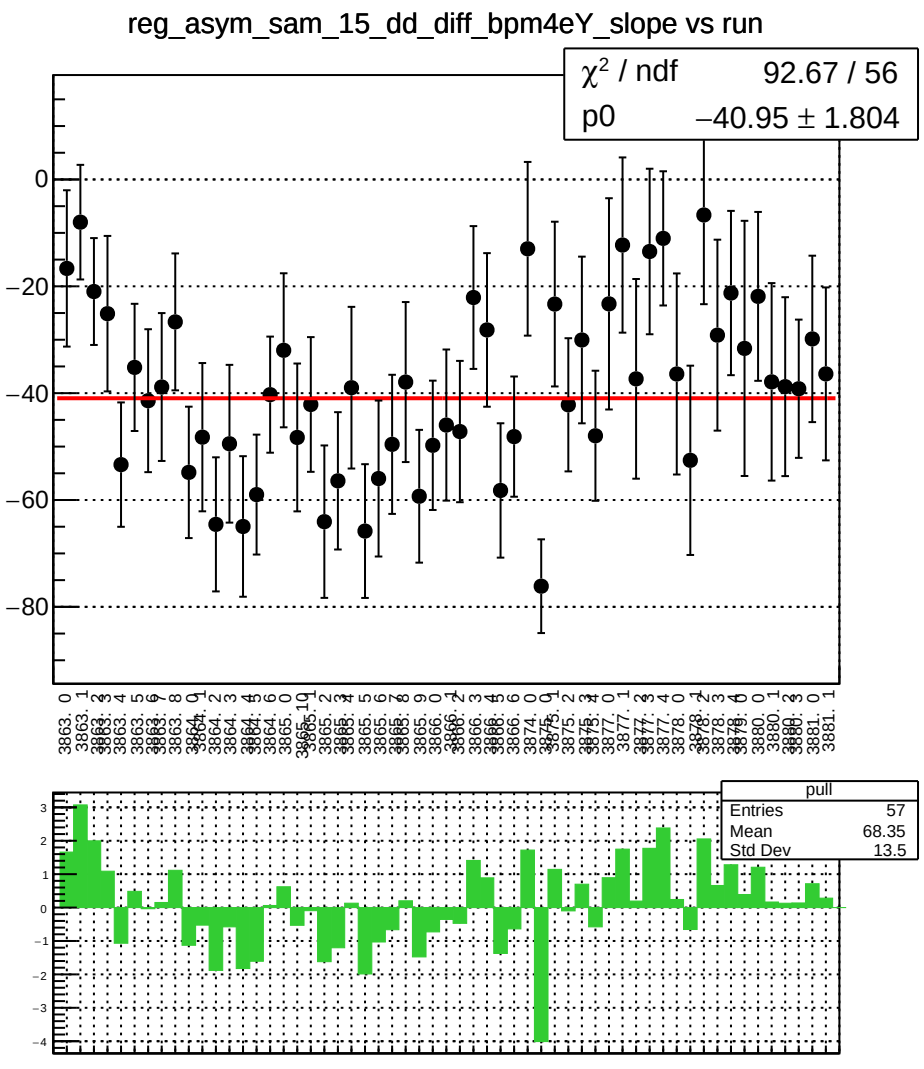

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 165.3 / 56
p0 −24.17 ± 1.373
pull
Entries 57
Mean 144.8
Std Dev 107.3

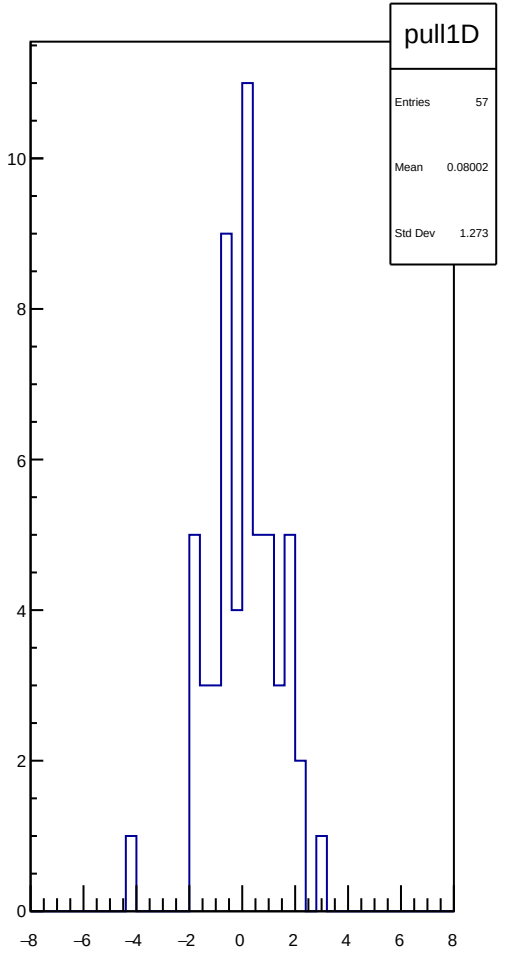

pull1D
Entries 57
Mean 0.1209
Std Dev 1.699

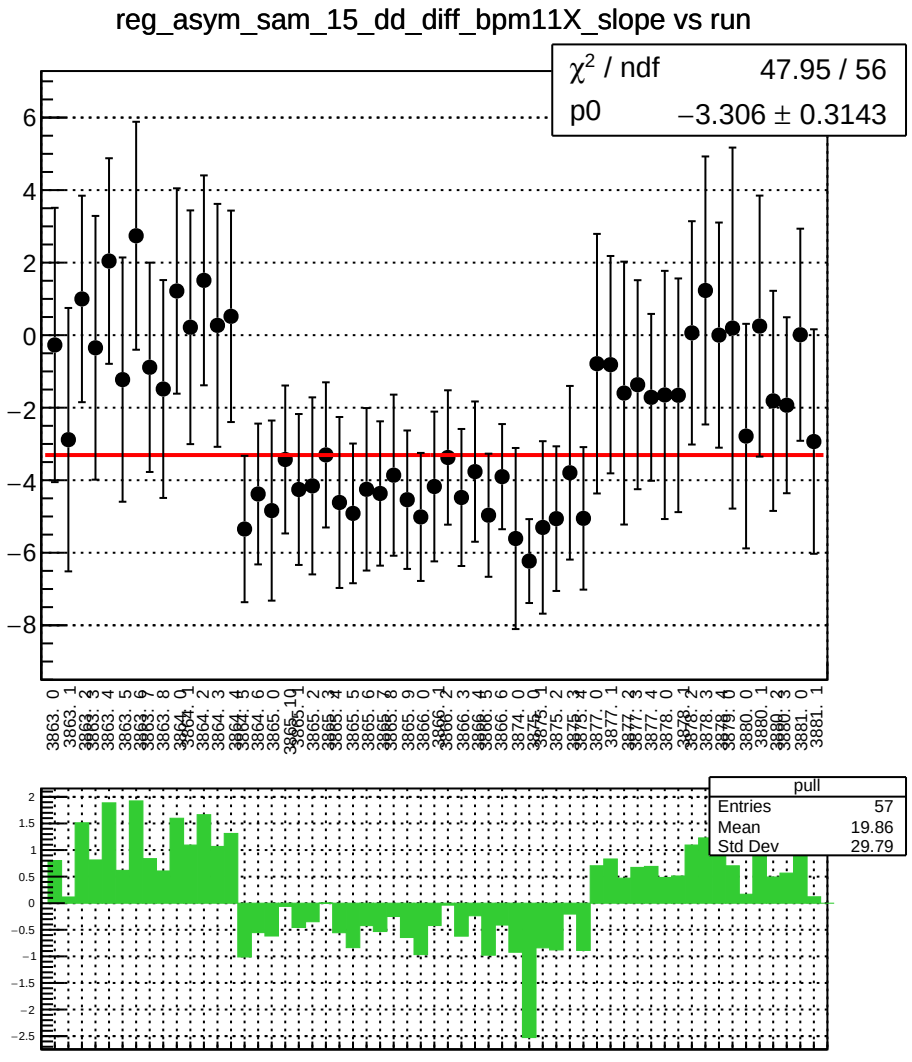

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 103 / 56
p0 −151.4 ± 1.095
pull
Entries 57
Mean 66.32
Std Dev 18.71

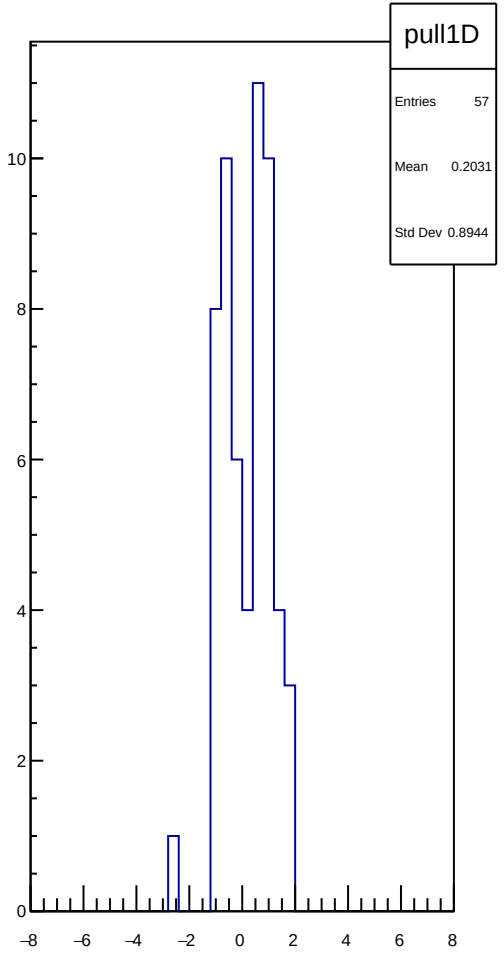

pull1D
Entries 57
Mean −0.08383
Std Dev 1.341

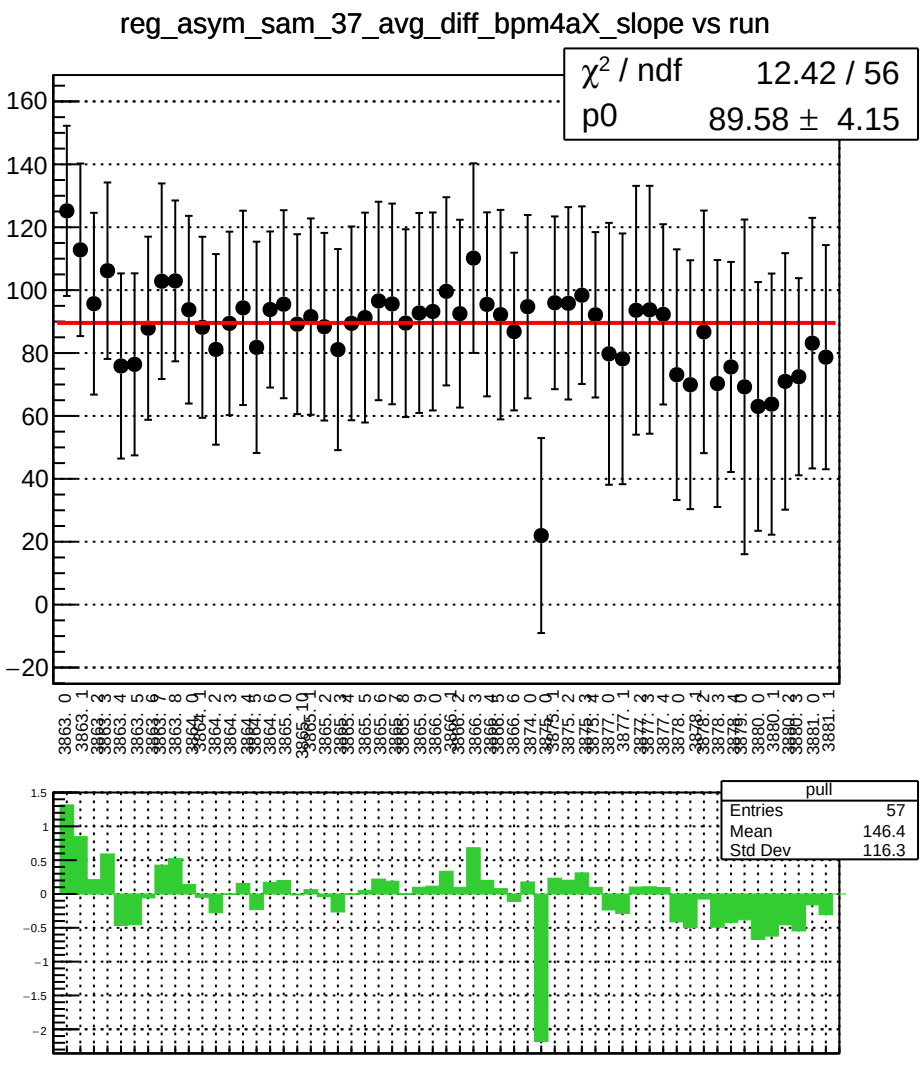

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 360.9 / 56
p0 −3.387 ± 0.2322
pull
Entries 57
Mean −131.5
Std Dev 163
pull1D
Entries 57
Mean 0.1981
Std Dev 2.508

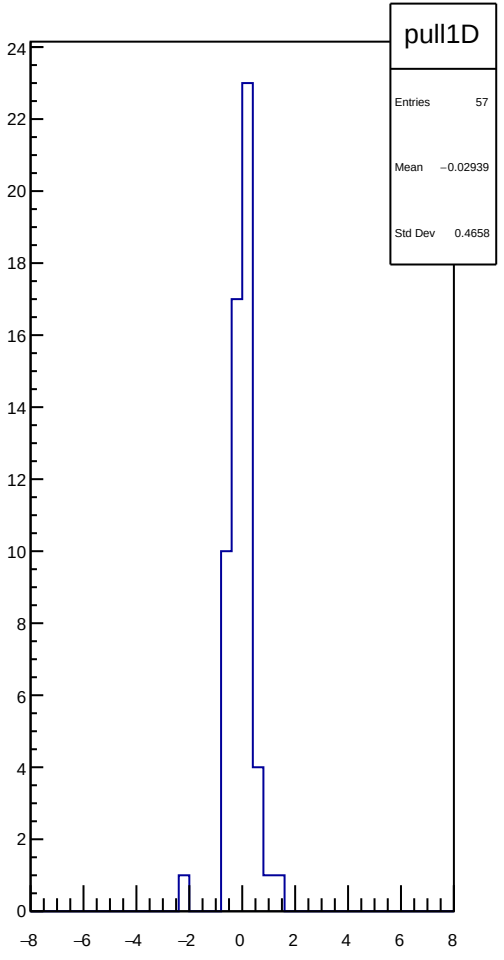

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 92.67 / 56
p0 −40.95 ± 1.804
pull
Entries 57
Mean 68.35
Std Dev 13.5

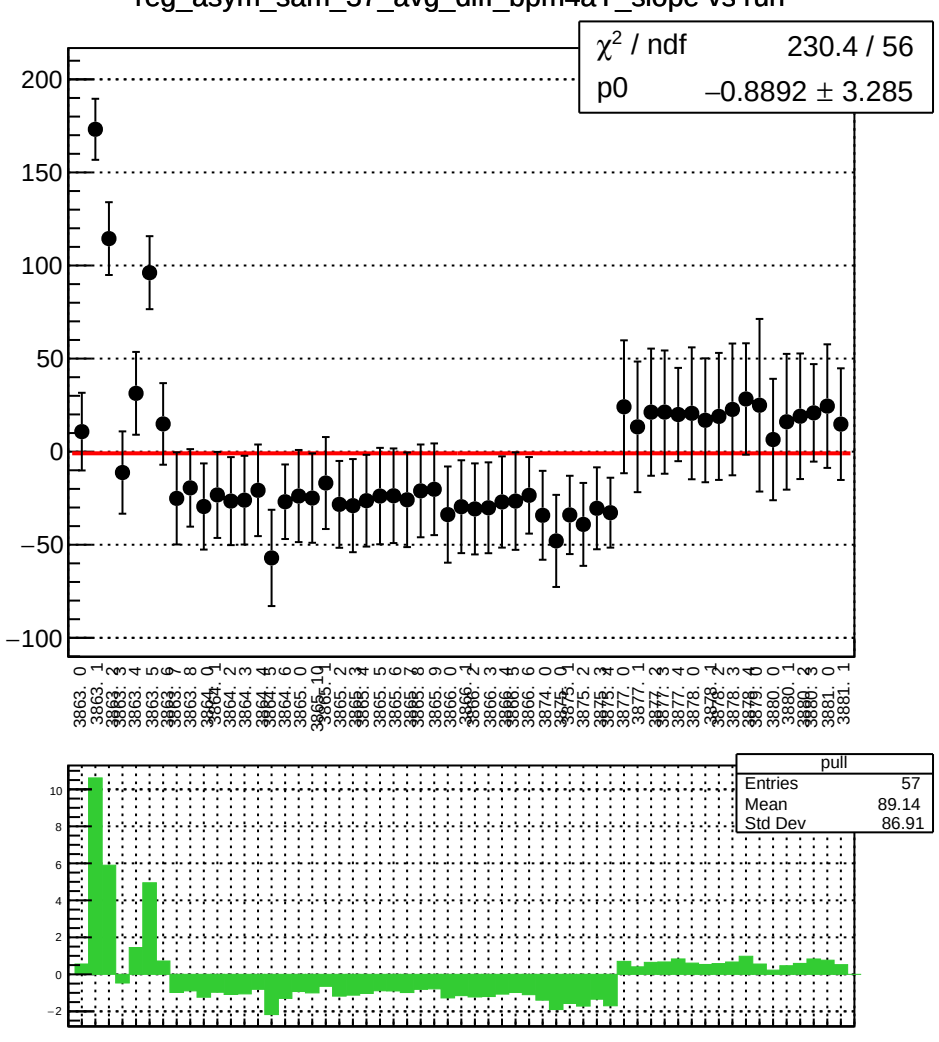

pull1D
Entries 57
Mean 0.08002
Std Dev 1.273

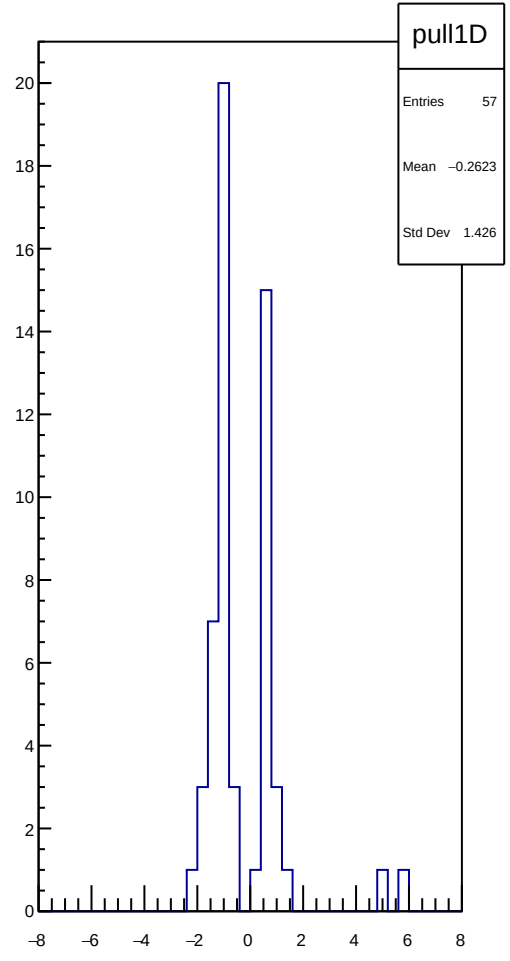

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 47.95 / 56
p0 −3.306 ± 0.3143
pull
Entries 57
Mean 19.86
Std Dev 29.79

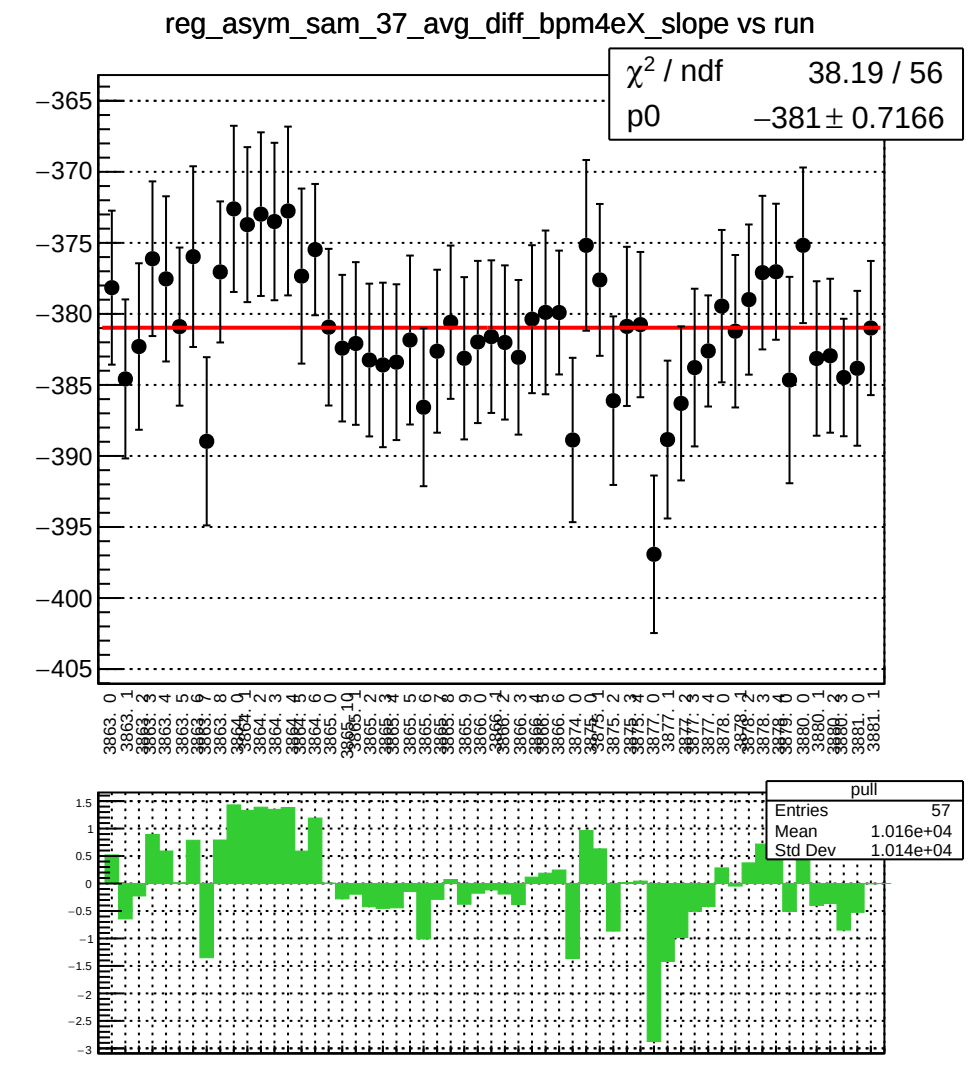

pull1D
Entries 57
Mean 0.2031
Std Dev 0.8944

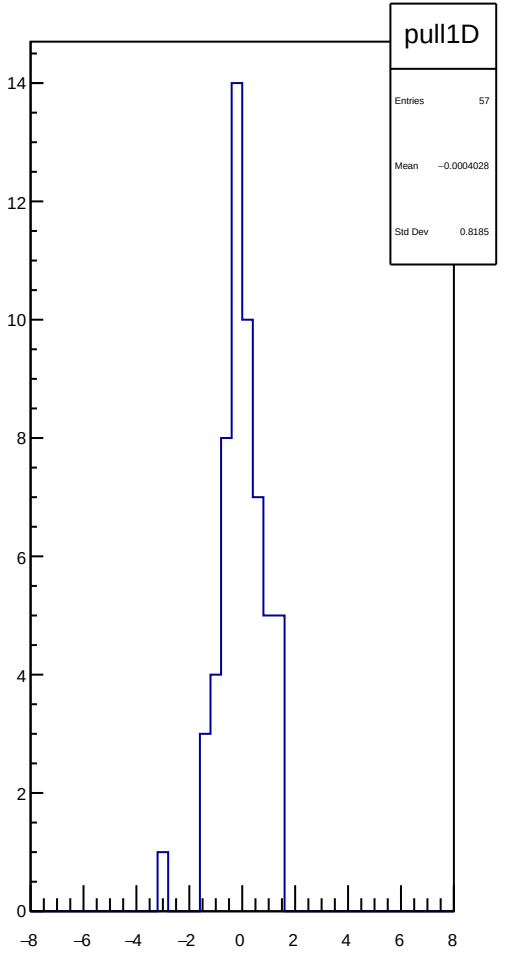

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.42 / 56
p0 89.58 ± 4.15
pull
Entries 57
Mean 146.4
Std Dev 116.3

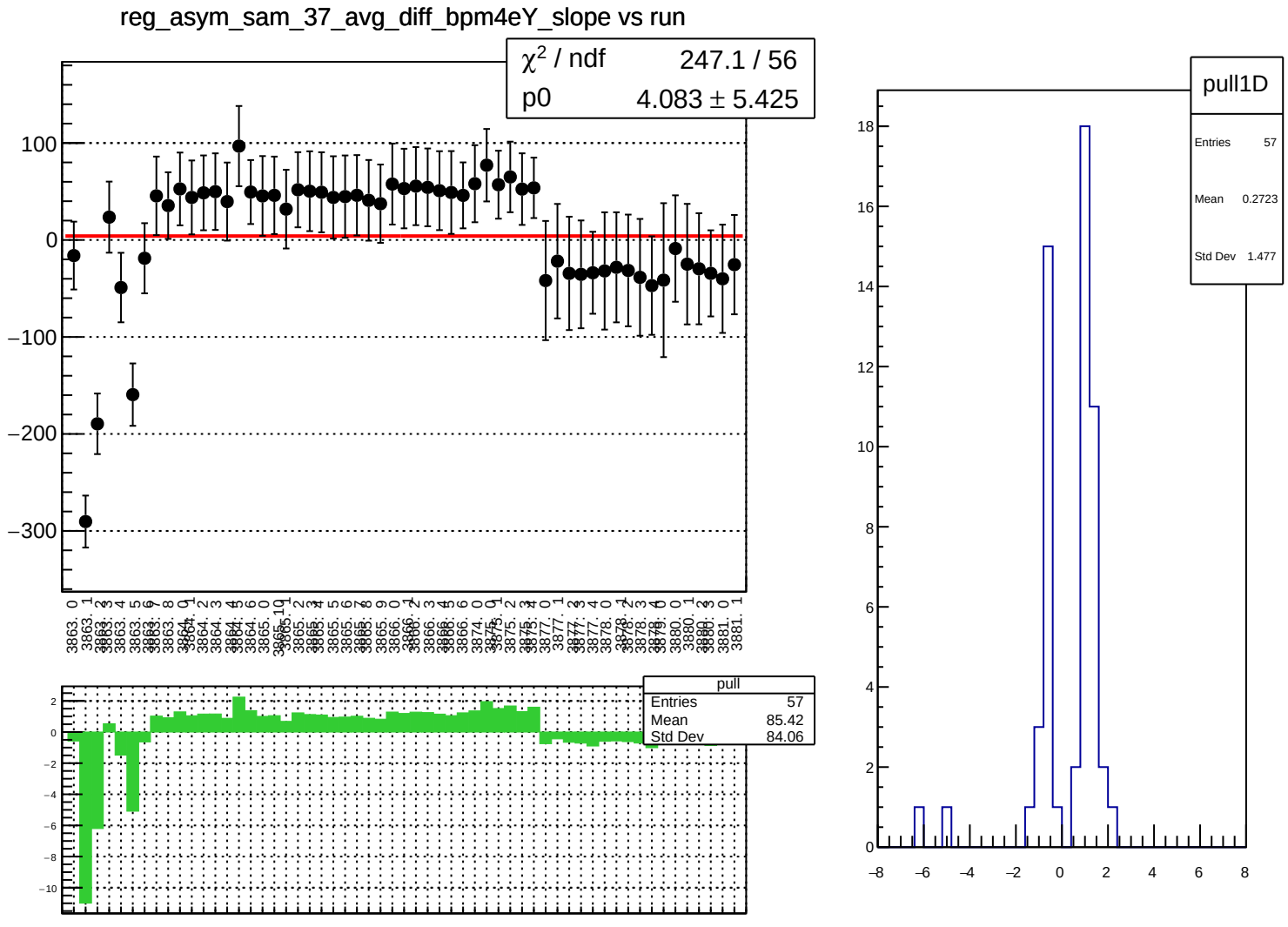

pull1D
Entries 57
Mean −0.02939
Std Dev 0.4658

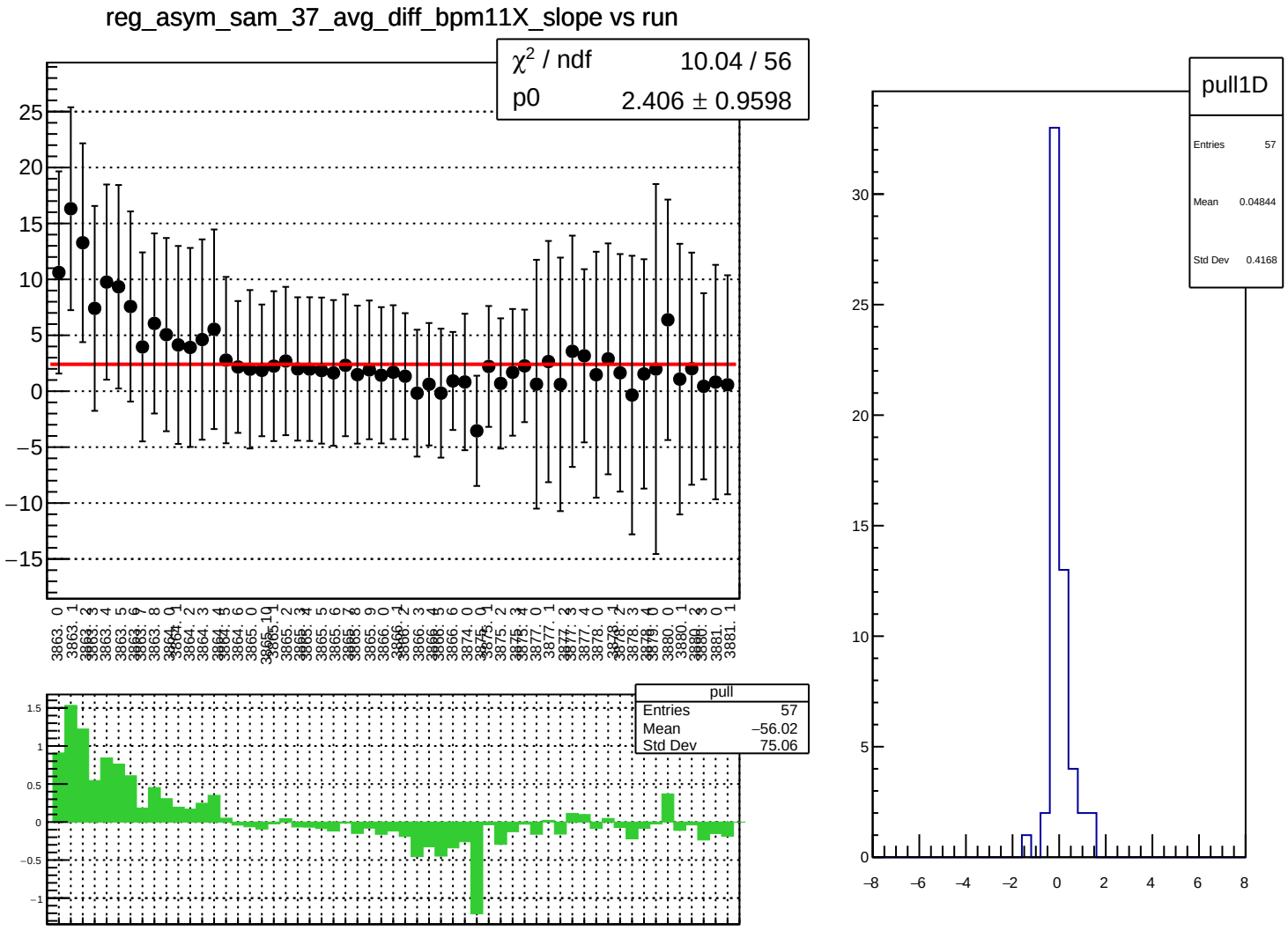

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 230.4 / 56
p0 −0.8892 ± 3.285
pull
Entries 57
Mean 89.14
Std Dev 86.91

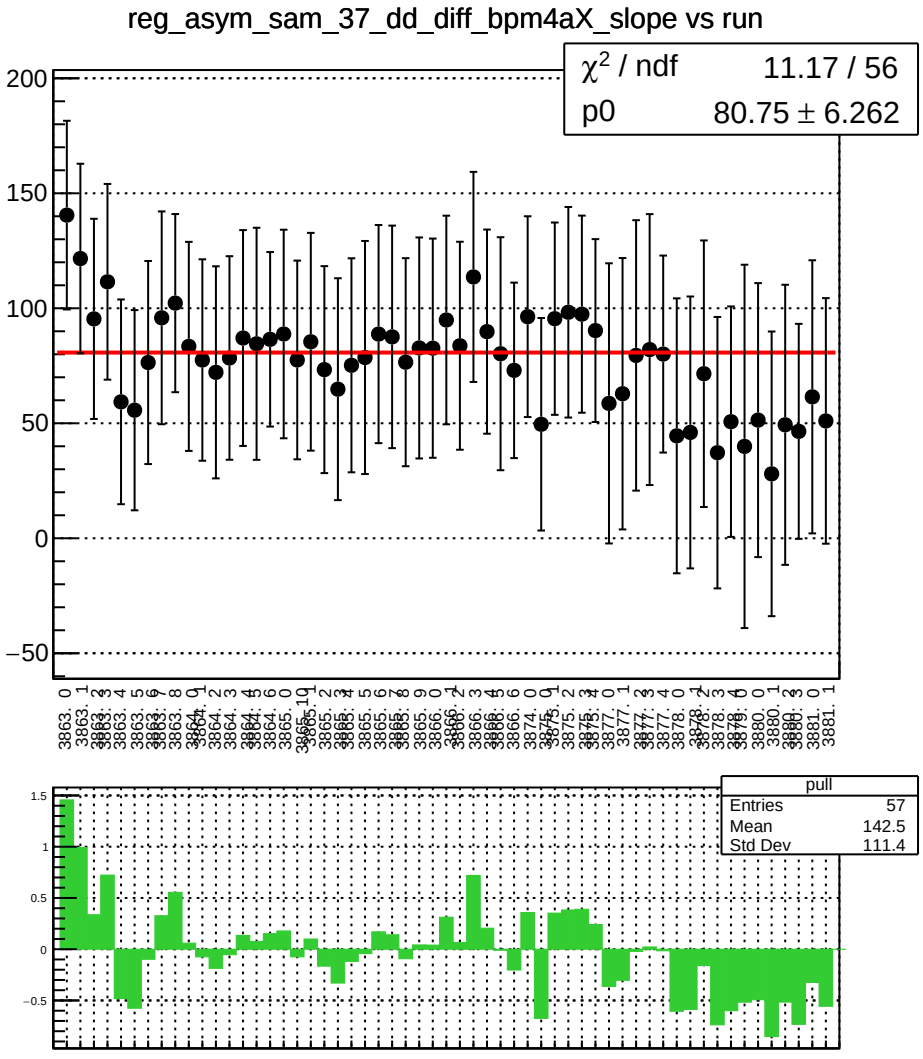

pull1D
Entries 57
Mean −0.2623
Std Dev 1.426

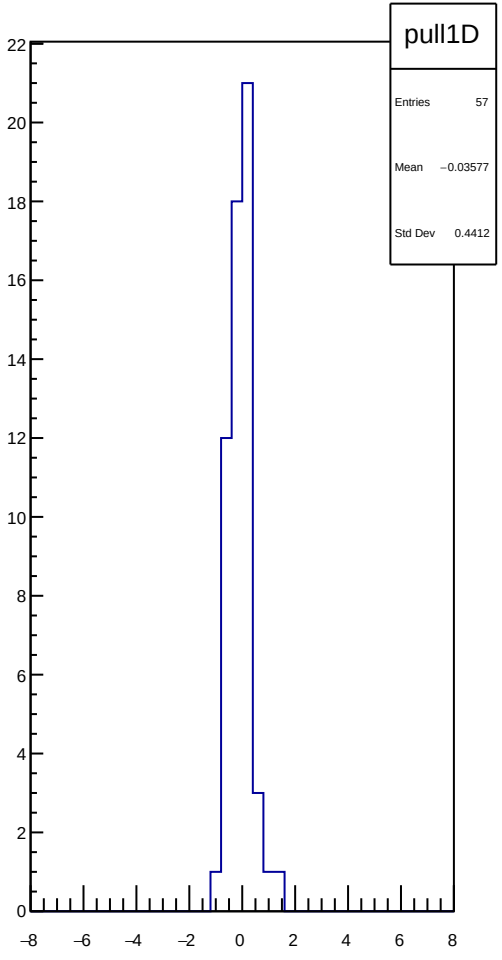

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.19 / 56
p0 −381 ± 0.7166
pull
Entries 57
Mean 1.016e+04
Std Dev 1.014e+04

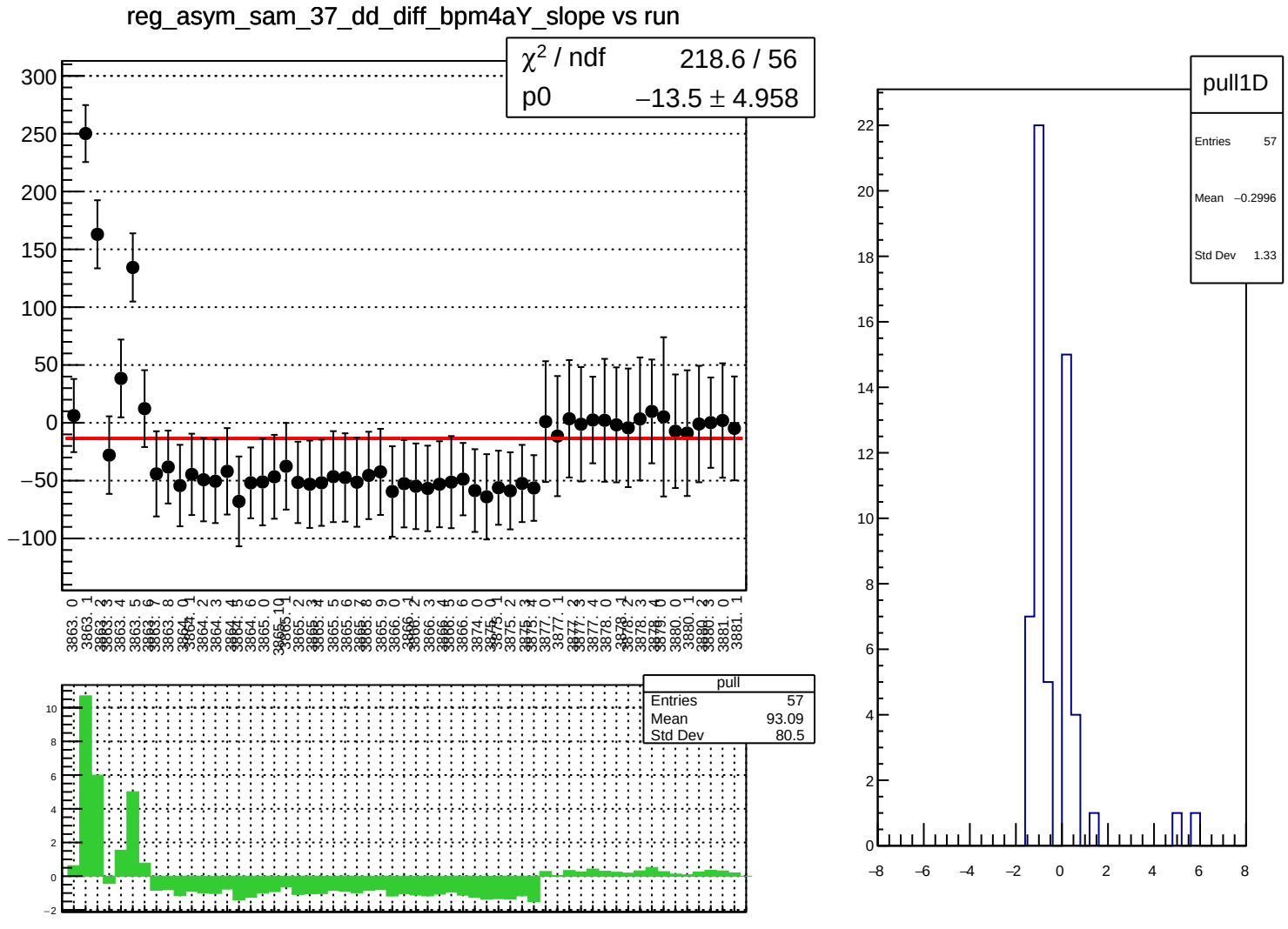

pull1D
Entries 57
Mean −0.0004028
Std Dev 0.8185

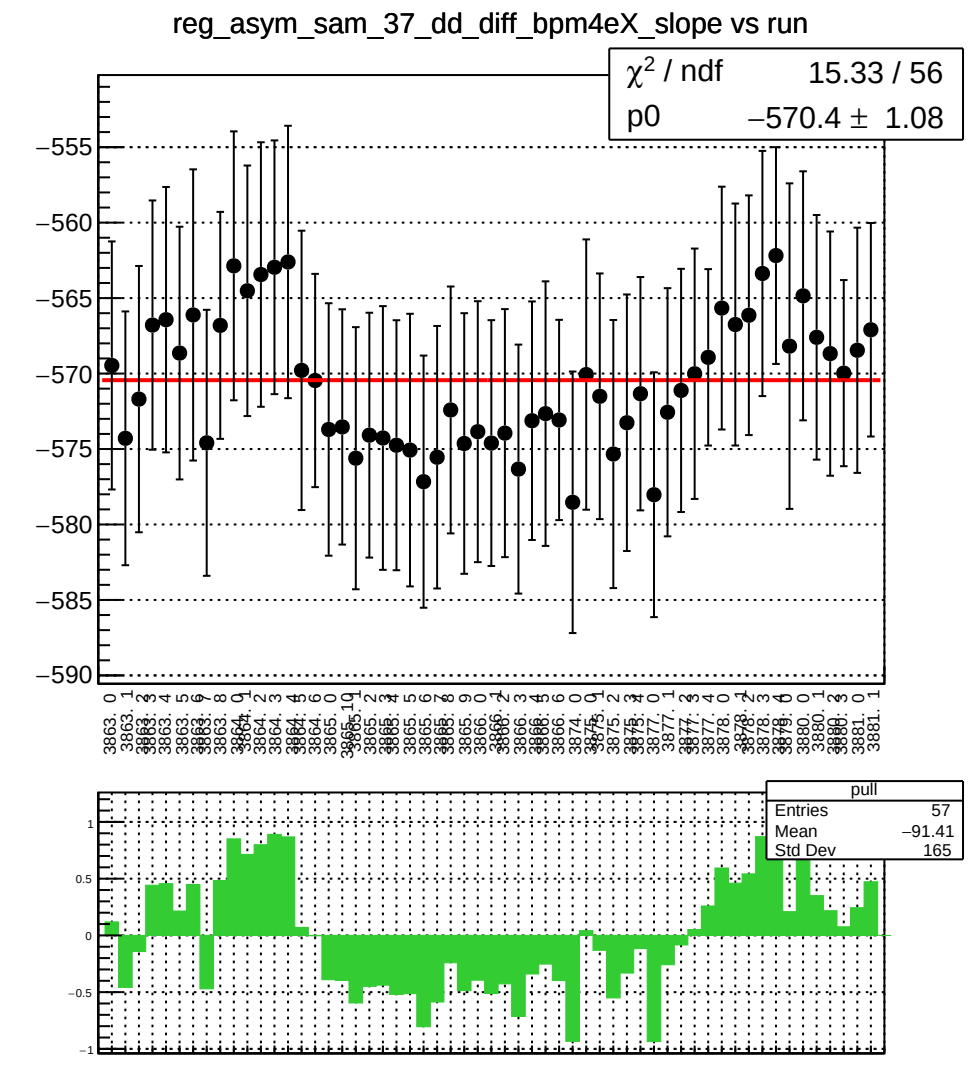

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 247.1 / 56
p0 4.083 ± 5.425
pull
Entries 57
Mean 85.42
Std Dev 84.06
pull1D
Entries 57
Mean 0.2723
Std Dev 1.477

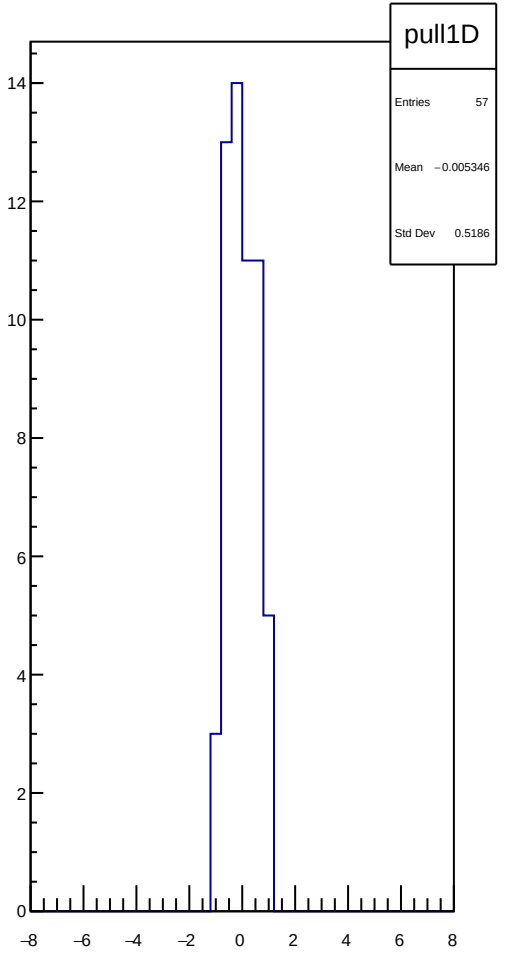

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 10.04 / 56
p0 2.406 ± 0.9598
pull
Entries 57
Mean −56.02
Std Dev 75.06
pull1D
Entries 57
Mean 0.04844
Std Dev 0.4168

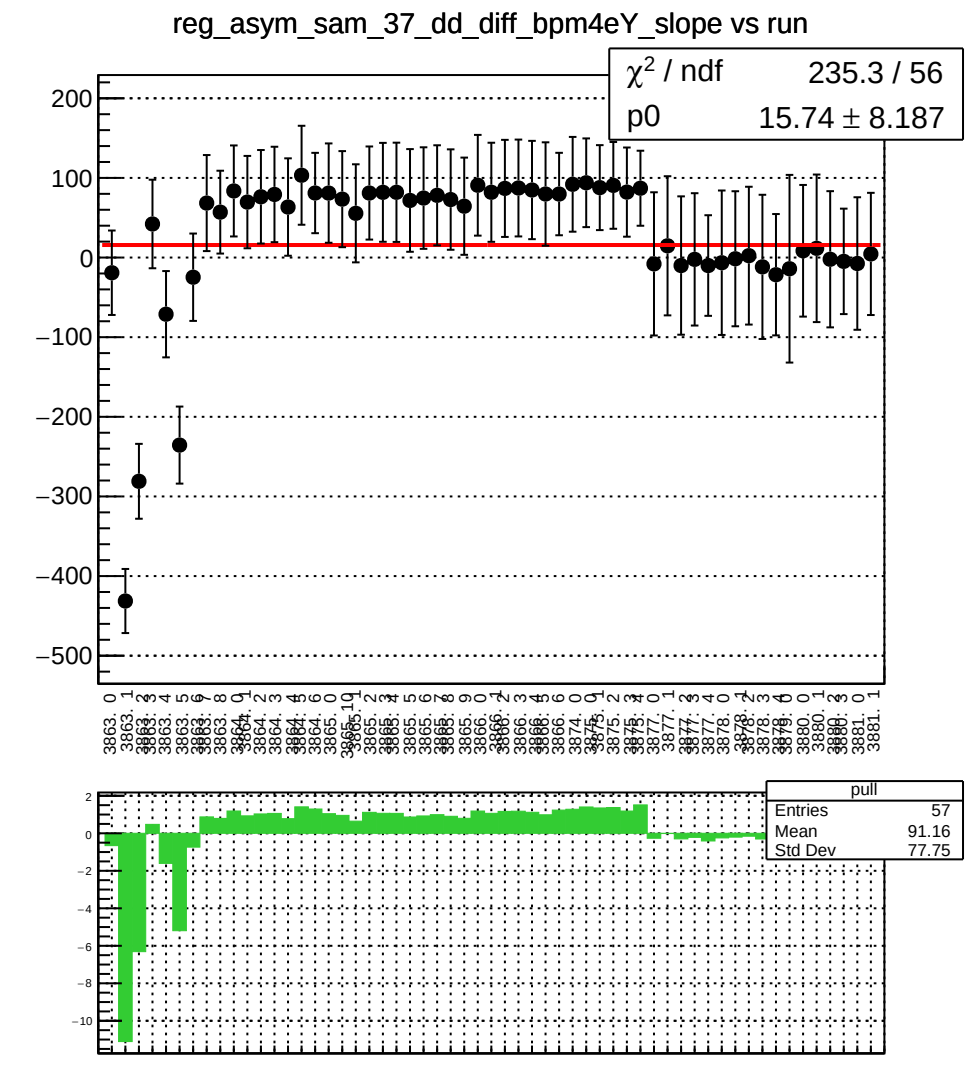

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 11.17 / 56
p0 80.75 ± 6.262
pull
Entries 57
Mean 142.5
Std Dev 111.4

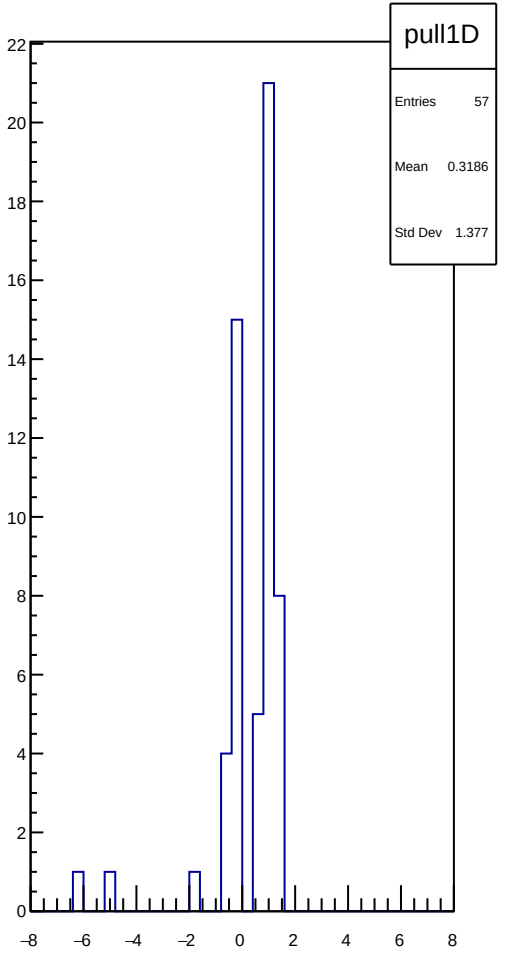

pull1D
Entries 57
Mean −0.03577
Std Dev 0.4412

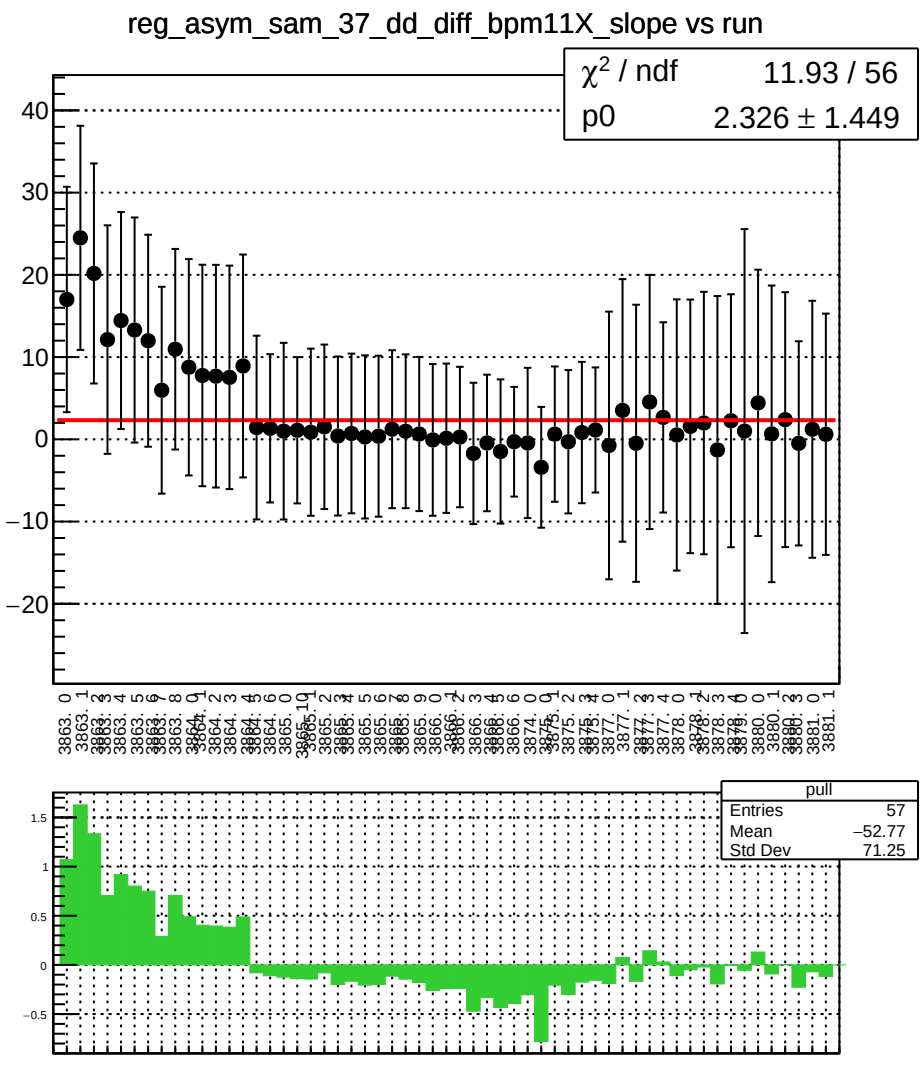

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 218.6 / 56
p0 −13.5 ± 4.958
pull
Entries 57
Mean 93.09
Std Dev 80.5
pull1D
Entries 57
Mean −0.2996
Std Dev 1.33

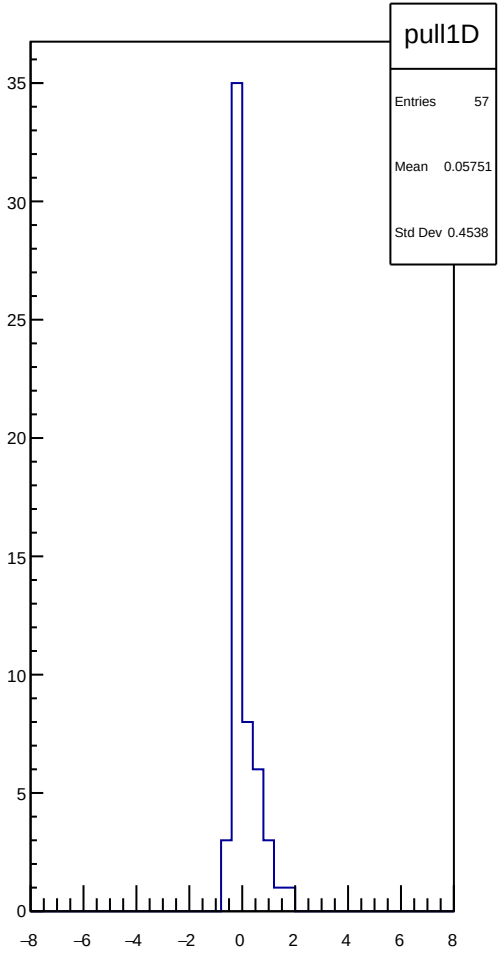

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.33 / 56
p0 −570.4 ± 1.08
pull
Entries 57
Mean −91.41
Std Dev 165

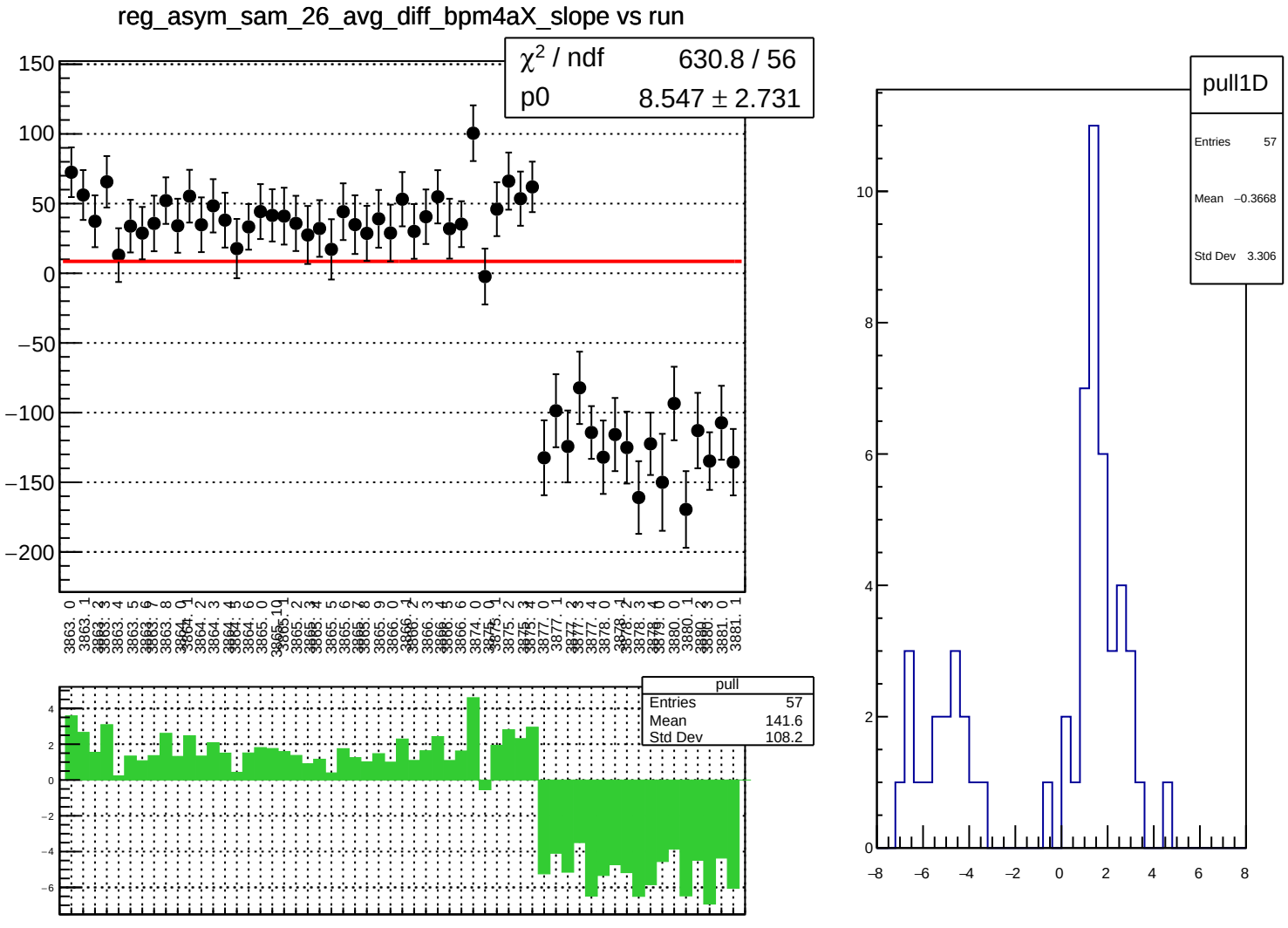

pull1D
Entries 57
Mean −0.005346
Std Dev 0.5186

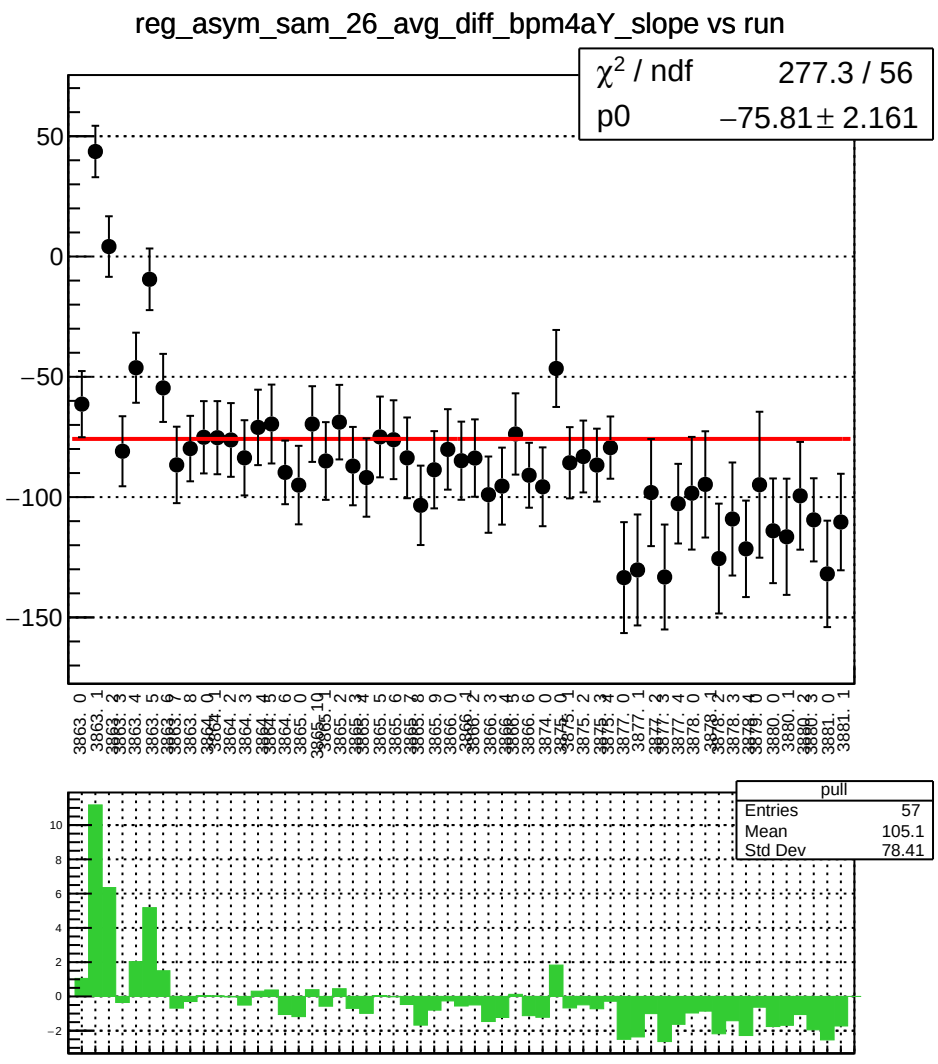

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 235.3 / 56
p0 15.74 ± 8.187
pull
Entries 57
Mean 91.16
Std Dev 77.75

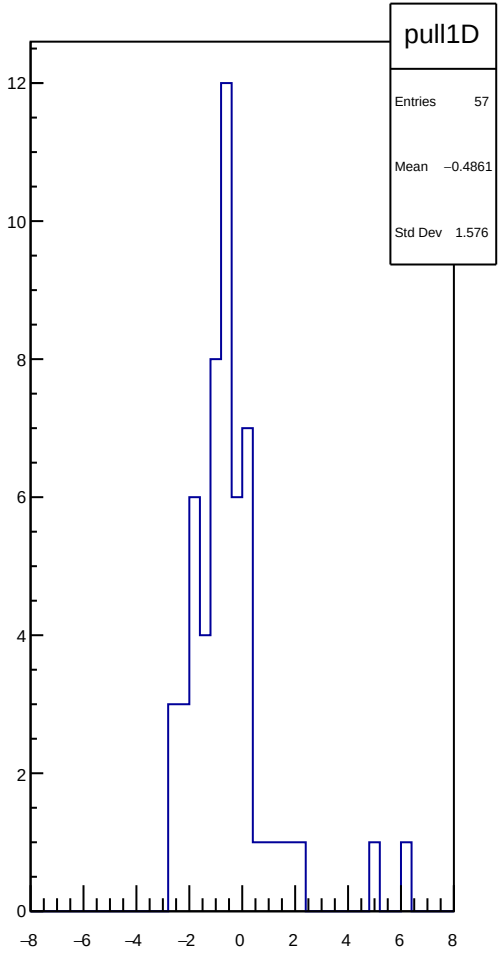

pull1D
Entries 57
Mean 0.3186
Std Dev 1.377

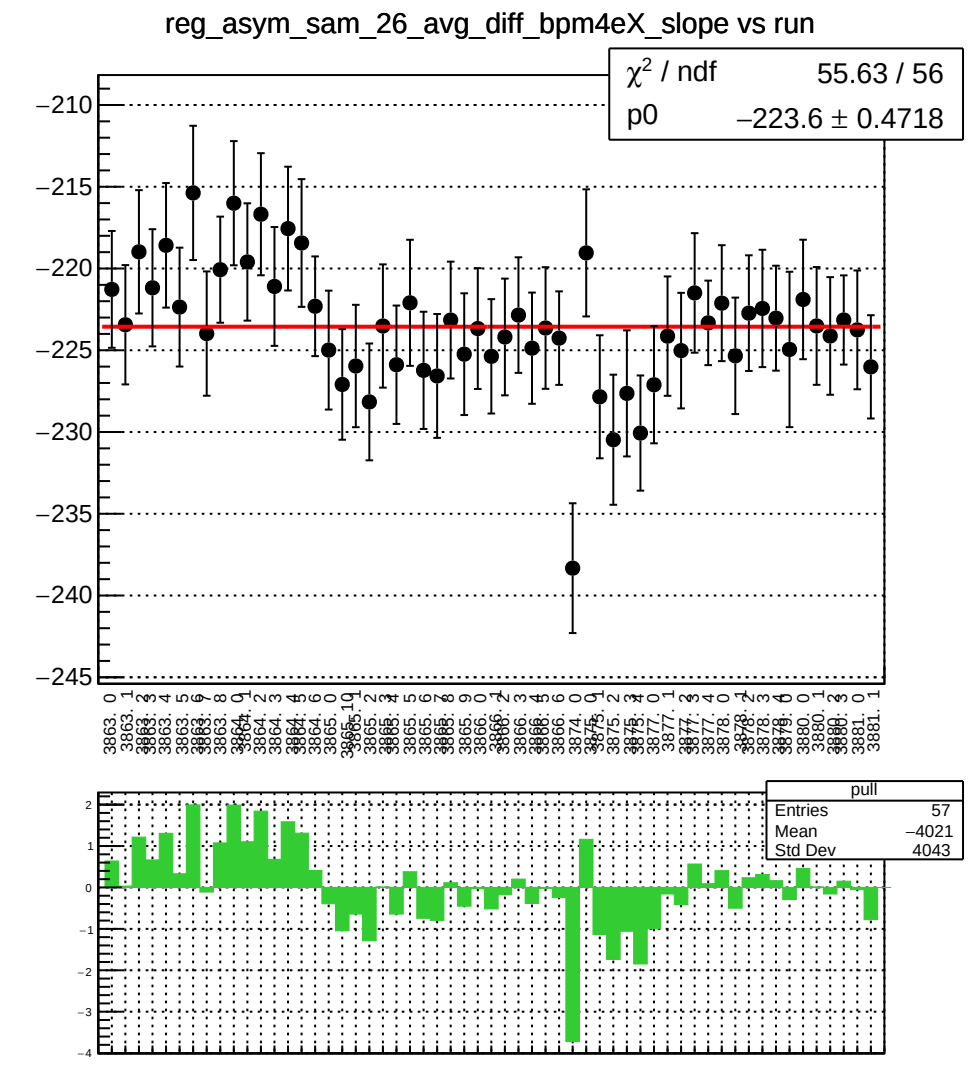

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 11.93 / 56
p0 2.326 ± 1.449
pull
Entries 57
Mean −52.77
Std Dev 71.25

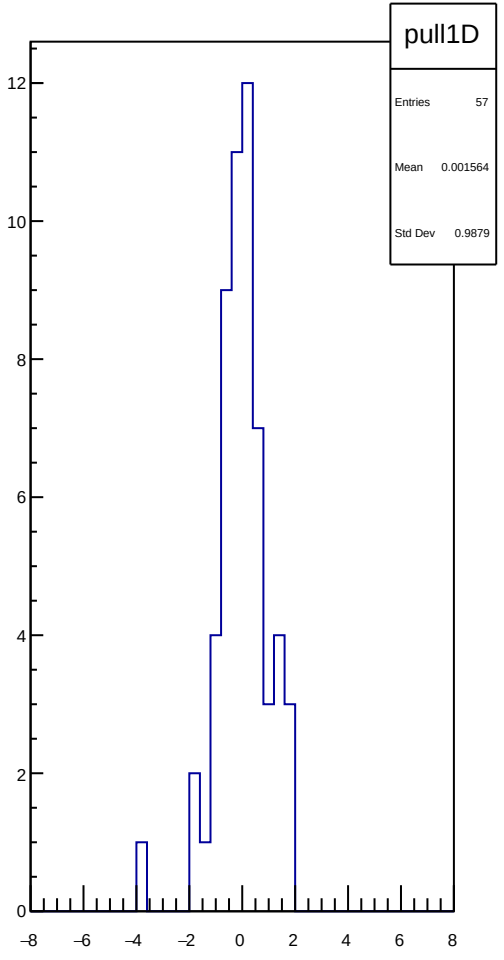

pull1D
Entries 57
Mean 0.05751
Std Dev 0.4538

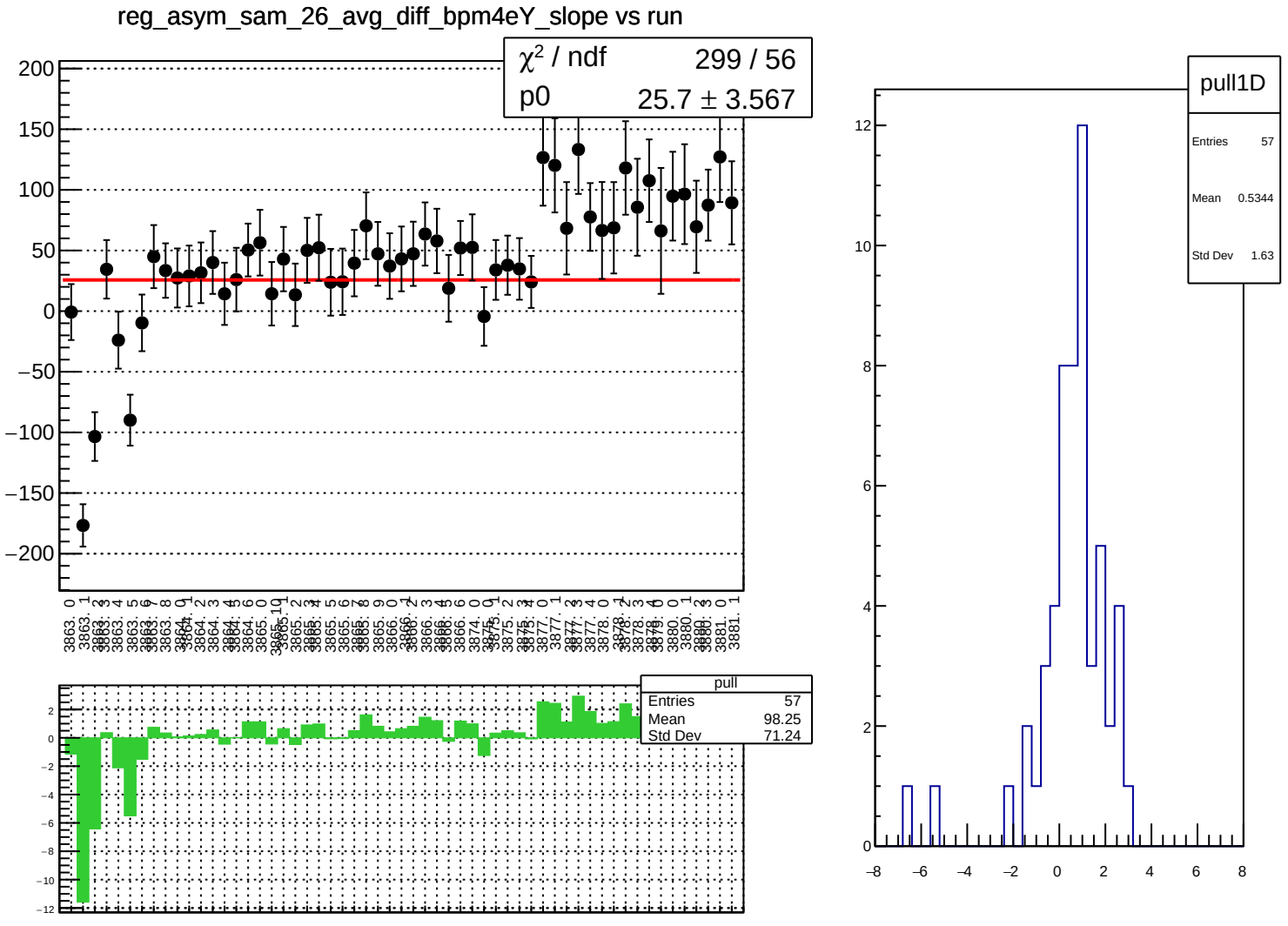

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 630.8 / 56
p0 8.547 ± 2.731
pull
Entries 57
Mean 141.6
Std Dev 108.2
pull1D
Entries 57
Mean −0.3668
Std Dev 3.306

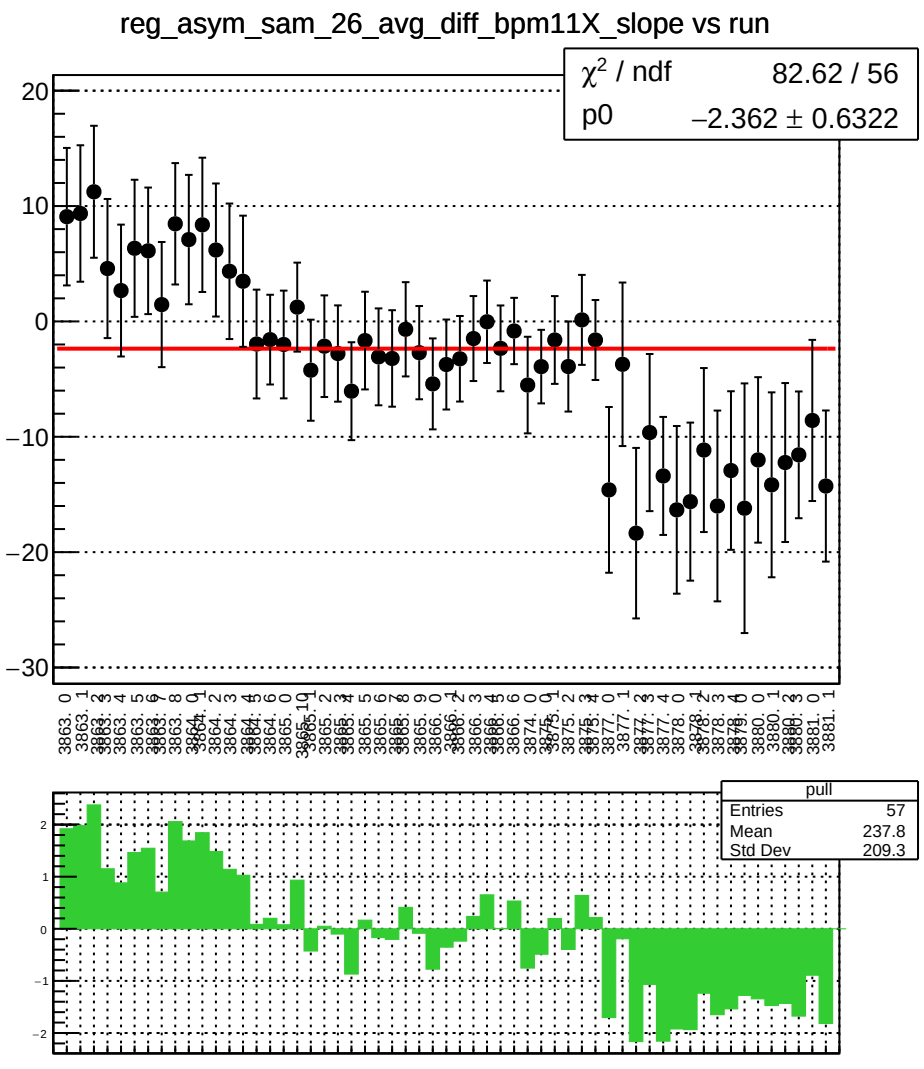

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 277.3 / 56
p0 −75.81 ± 2.161
pull
Entries 57
Mean 105.1
Std Dev 78.41

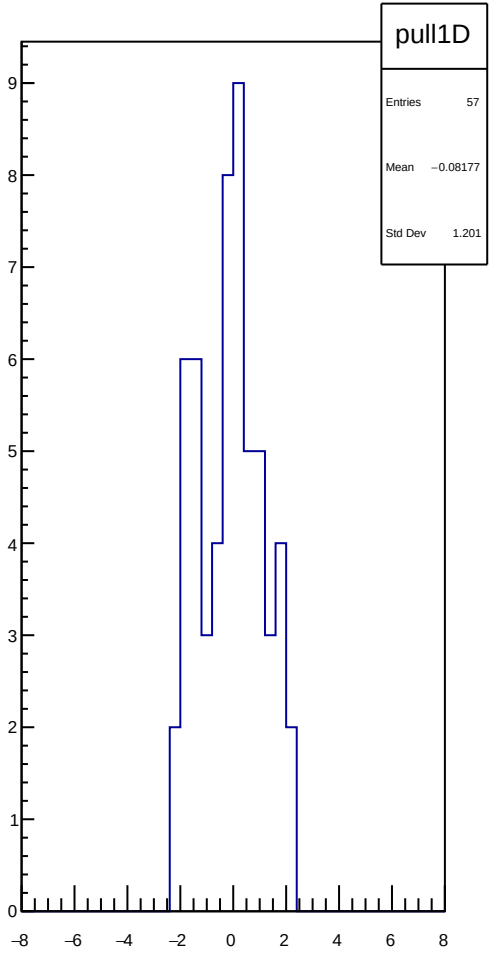

pull1D
Entries 57
Mean −0.4861
Std Dev 1.576

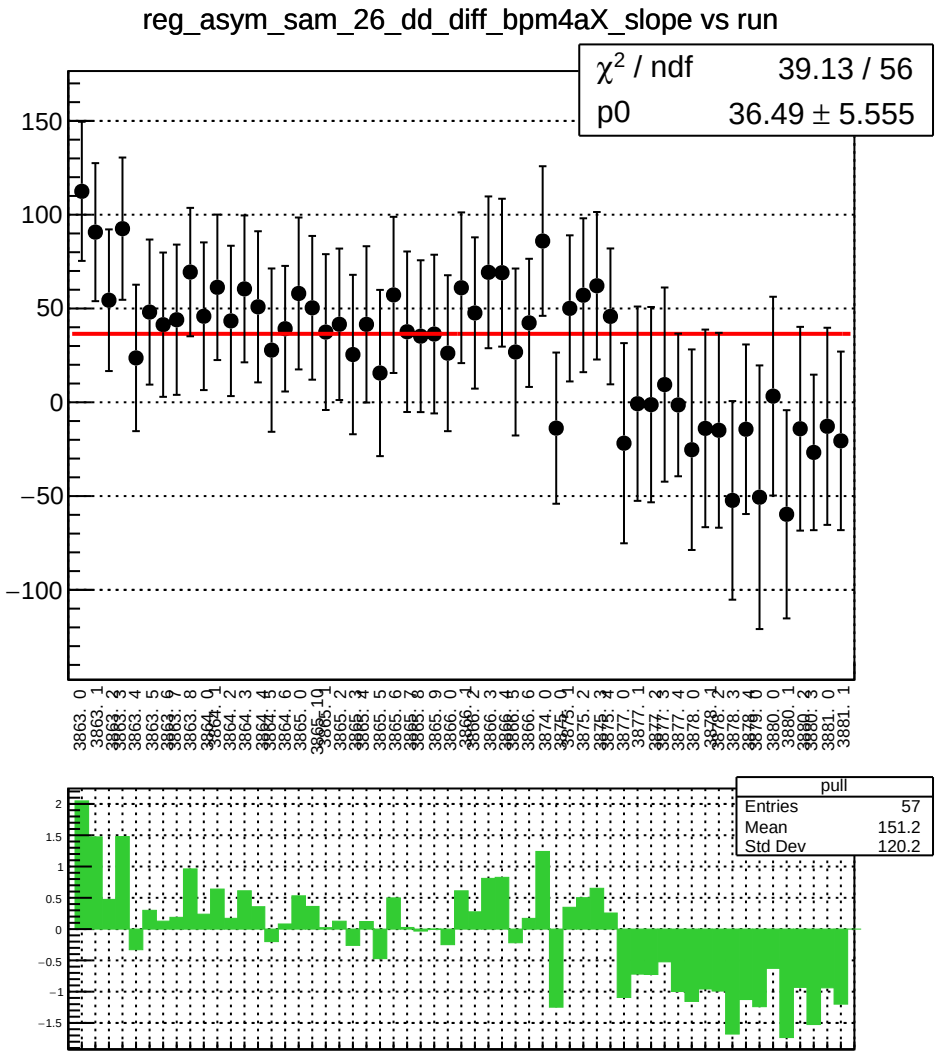

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.63 / 56
p0 −223.6 ± 0.4718
pull
Entries 57
Mean −4021
Std Dev 4043

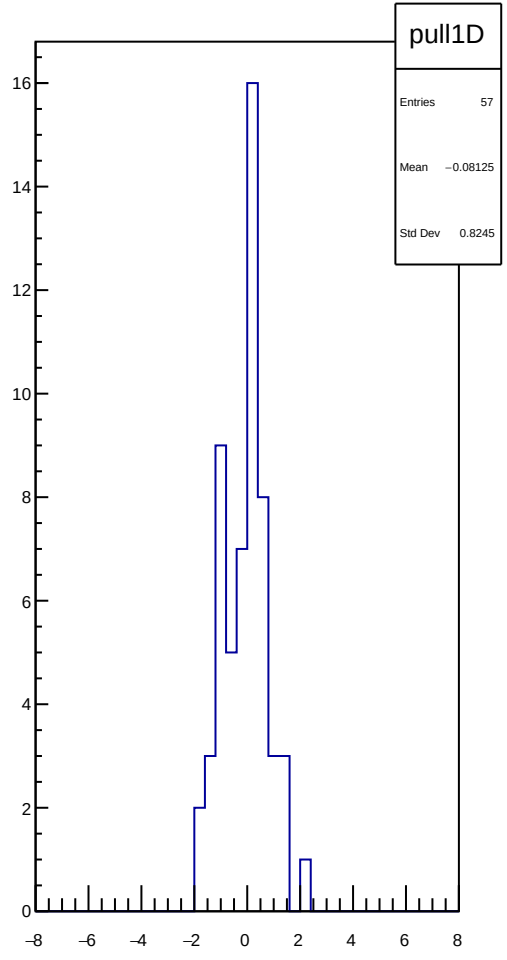

pull1D
Entries 57
Mean 0.001564
Std Dev 0.9879

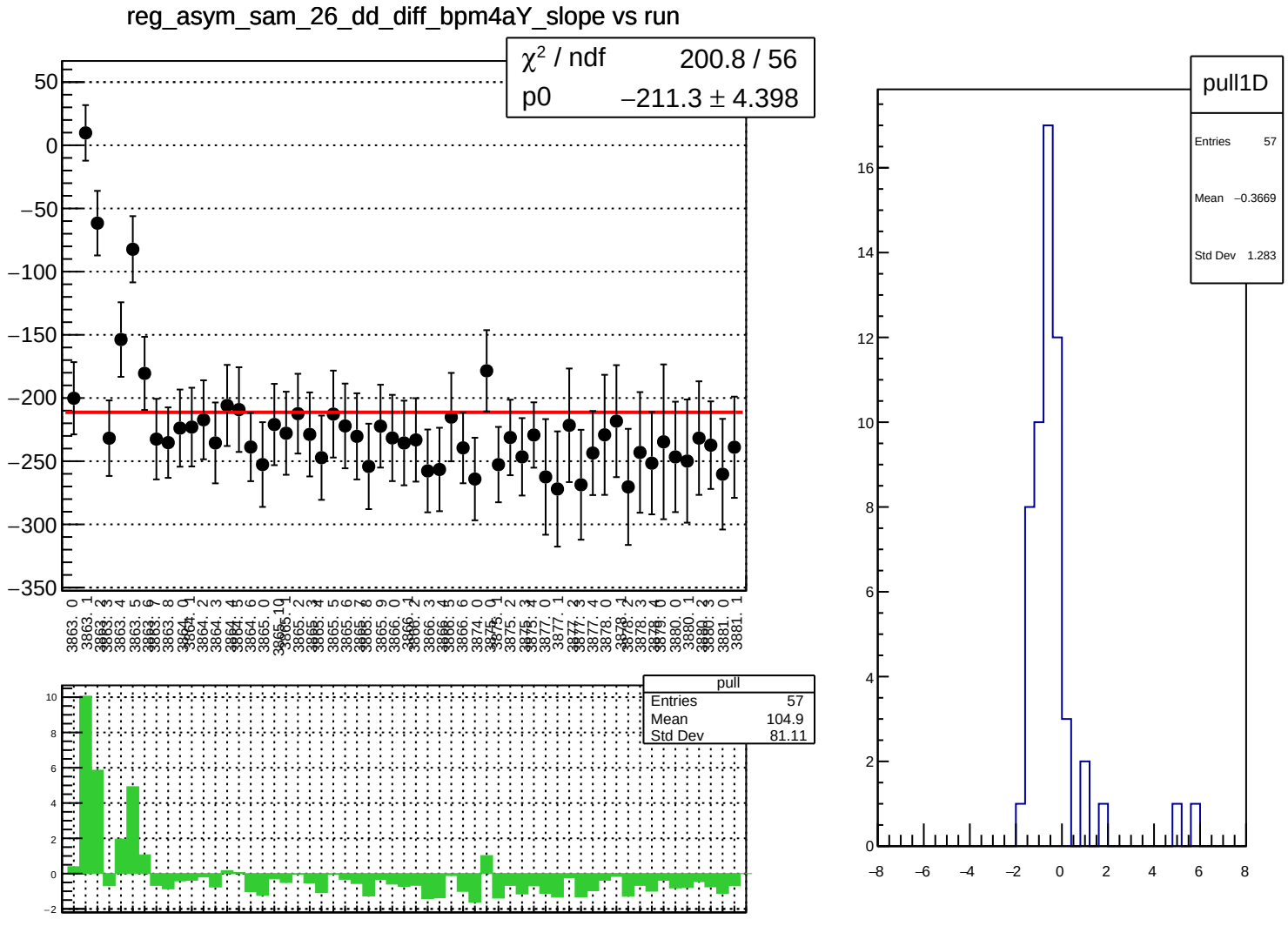

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 299 / 56
p0 25.7 ± 3.567
pull
Entries 57
Mean 98.25
Std Dev 71.24
pull1D
Entries 57
Mean 0.5344
Std Dev 1.63

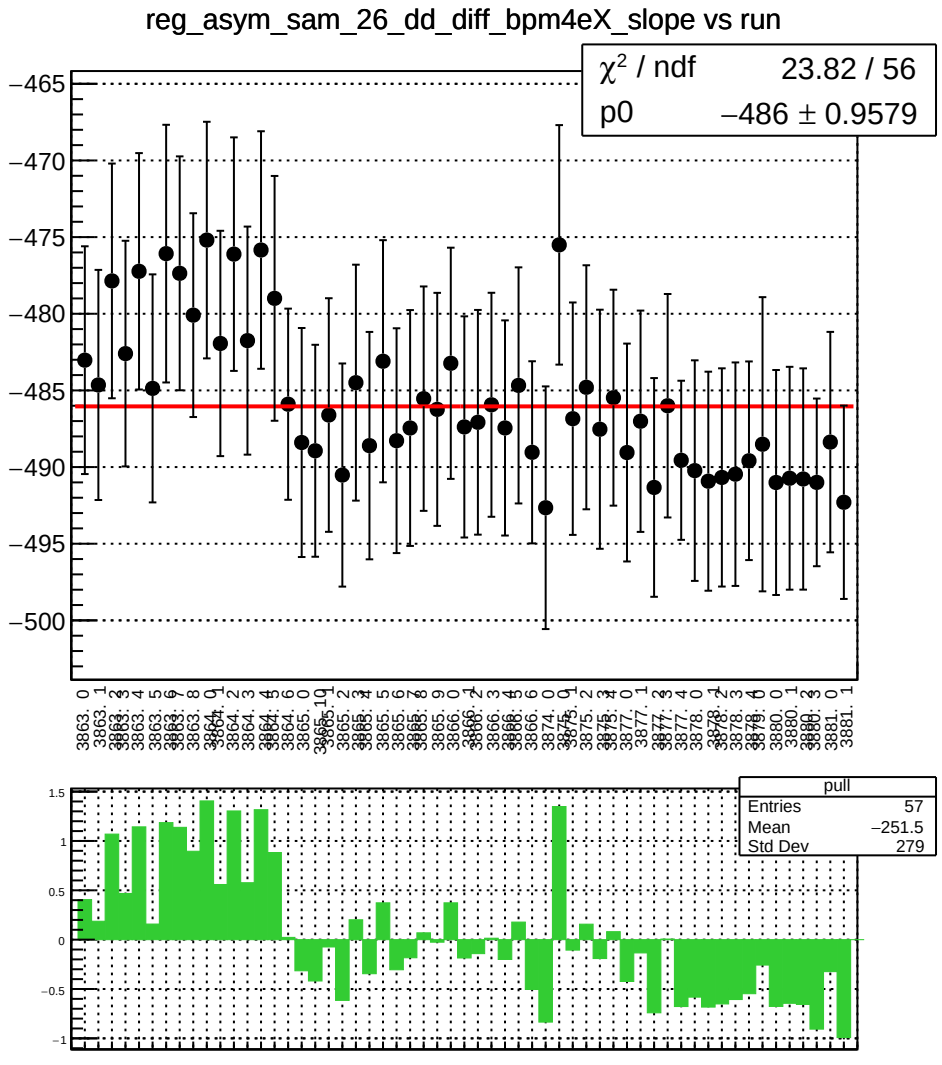

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 82.62 / 56
p0 −2.362 ± 0.6322
pull
Entries 57
Mean 237.8
Std Dev 209.3

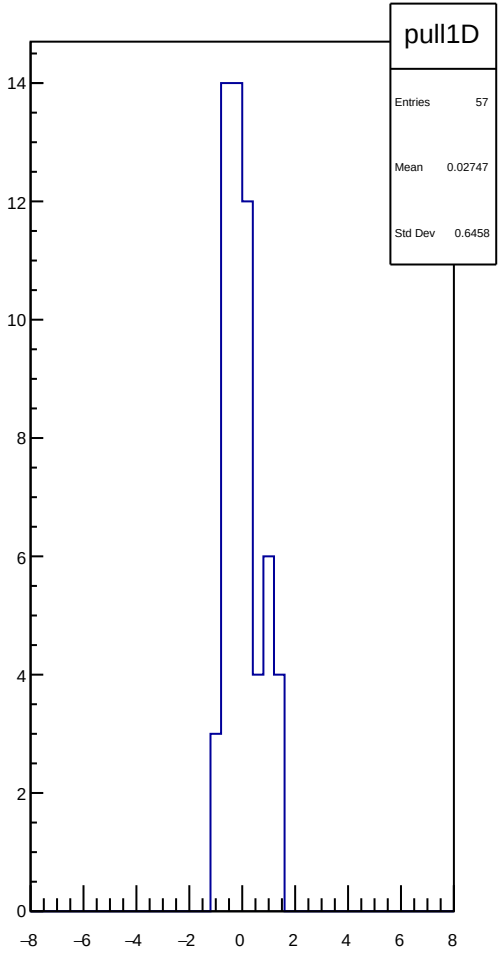

pull1D
Entries 57
Mean −0.08177
Std Dev 1.201

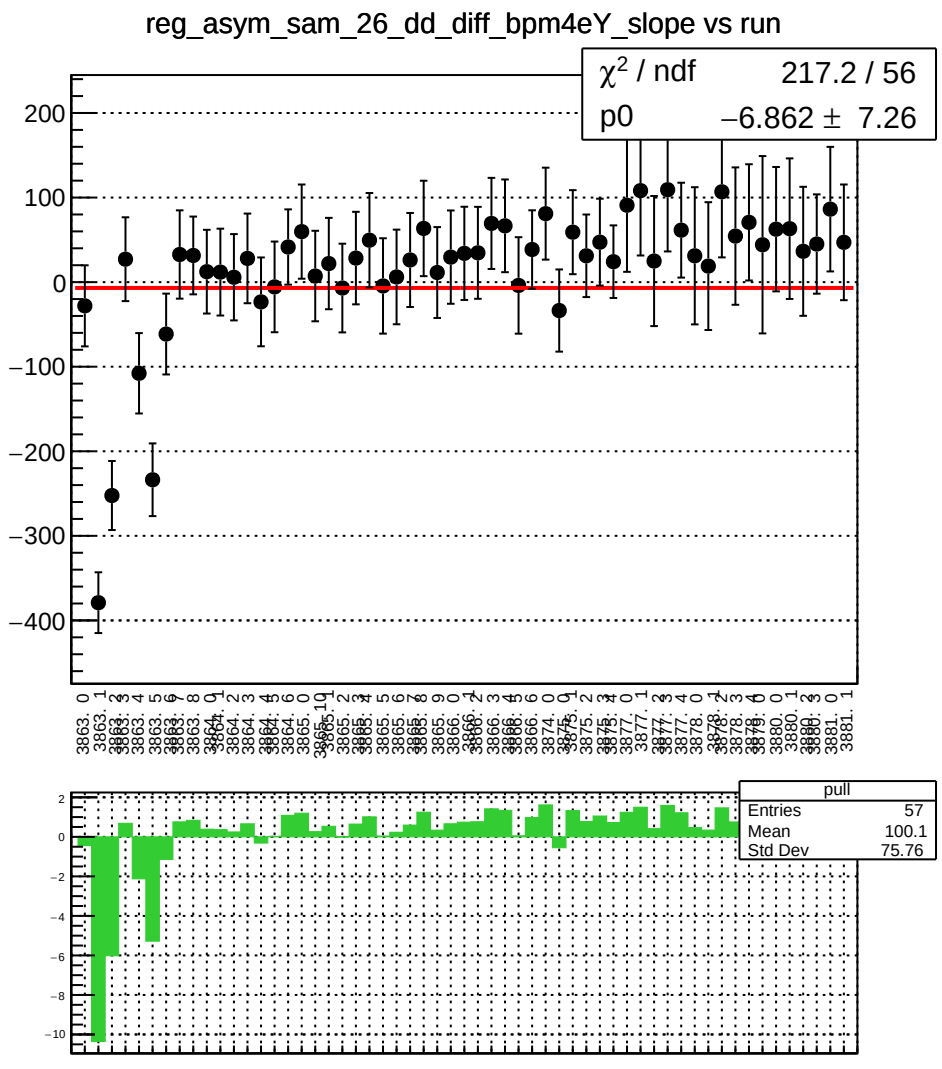

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 39.13 / 56
p0 36.49 ± 5.555
150
100
50
0
−50
−100
pull
Entries 57
Mean 151.2
Std Dev 120.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

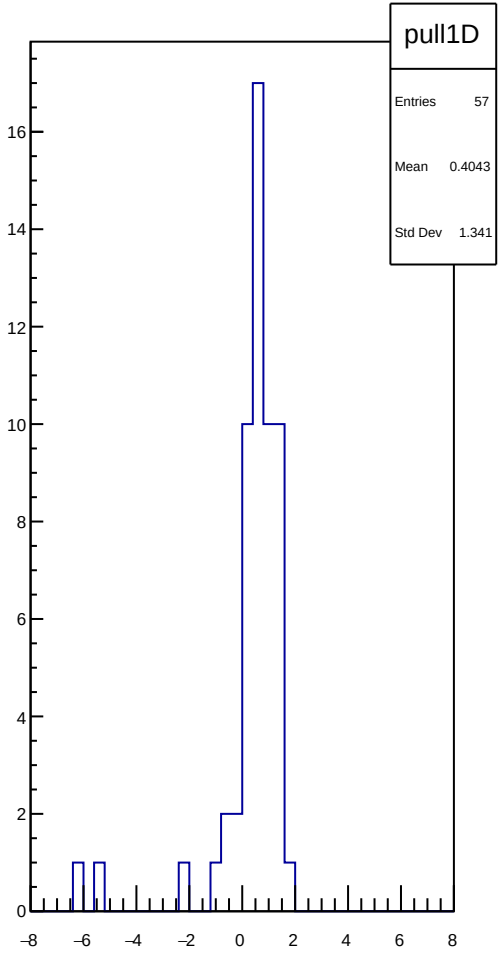

pull1D
Entries 57
Mean −0.08125
Std Dev 0.8245
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

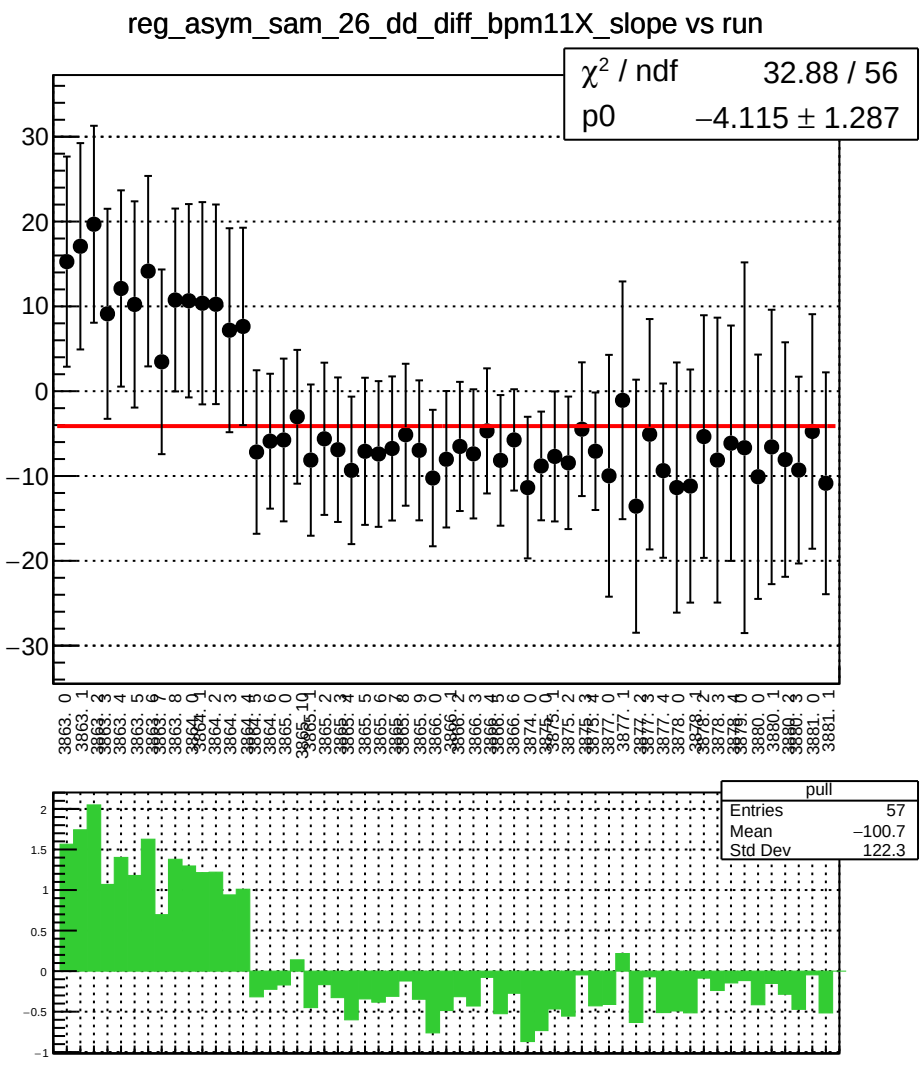

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 200.8 / 56
p0 −211.3 ± 4.398
pull
Entries 57
Mean 104.9
Std Dev 81.11
pull1D
Entries 57
Mean −0.3669
Std Dev 1.283

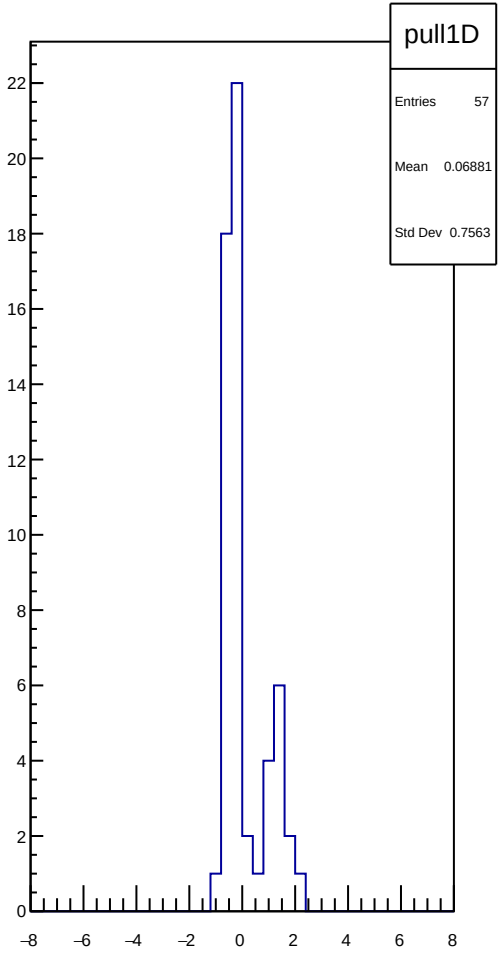

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.82 / 56
p0 −486 ± 0.9579
pull
Entries 57
Mean −251.5
Std Dev 279

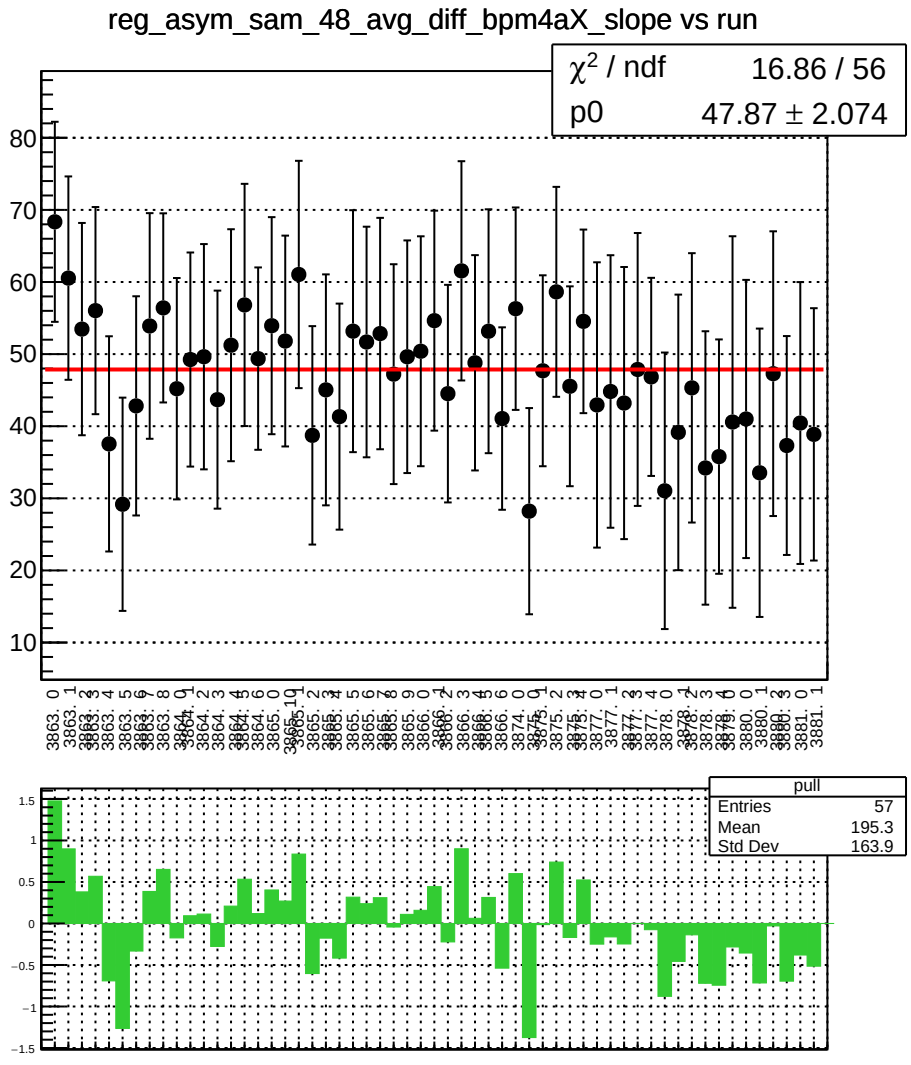

pull1D
Entries 57
Mean 0.02747
Std Dev 0.6458

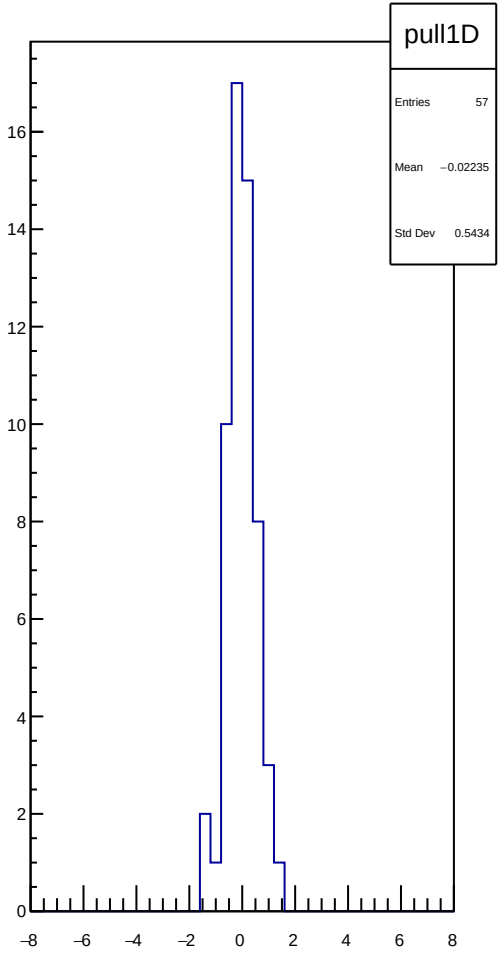

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 217.2 / 56
p0 −6.862 ± 7.26
pull
Entries 57
Mean 100.1
Std Dev 75.76

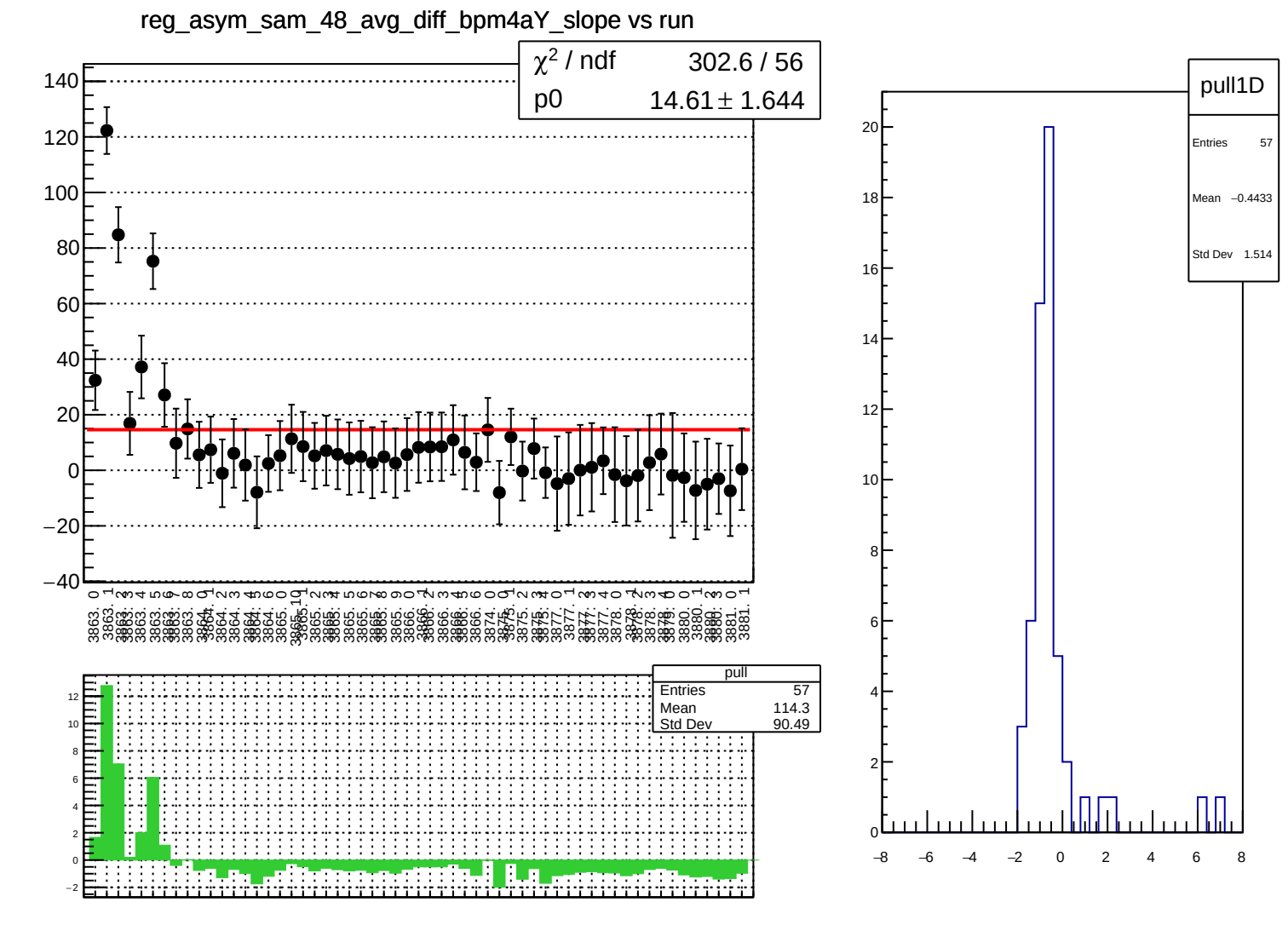

pull1D
Entries 57
Mean 0.4043
Std Dev 1.341

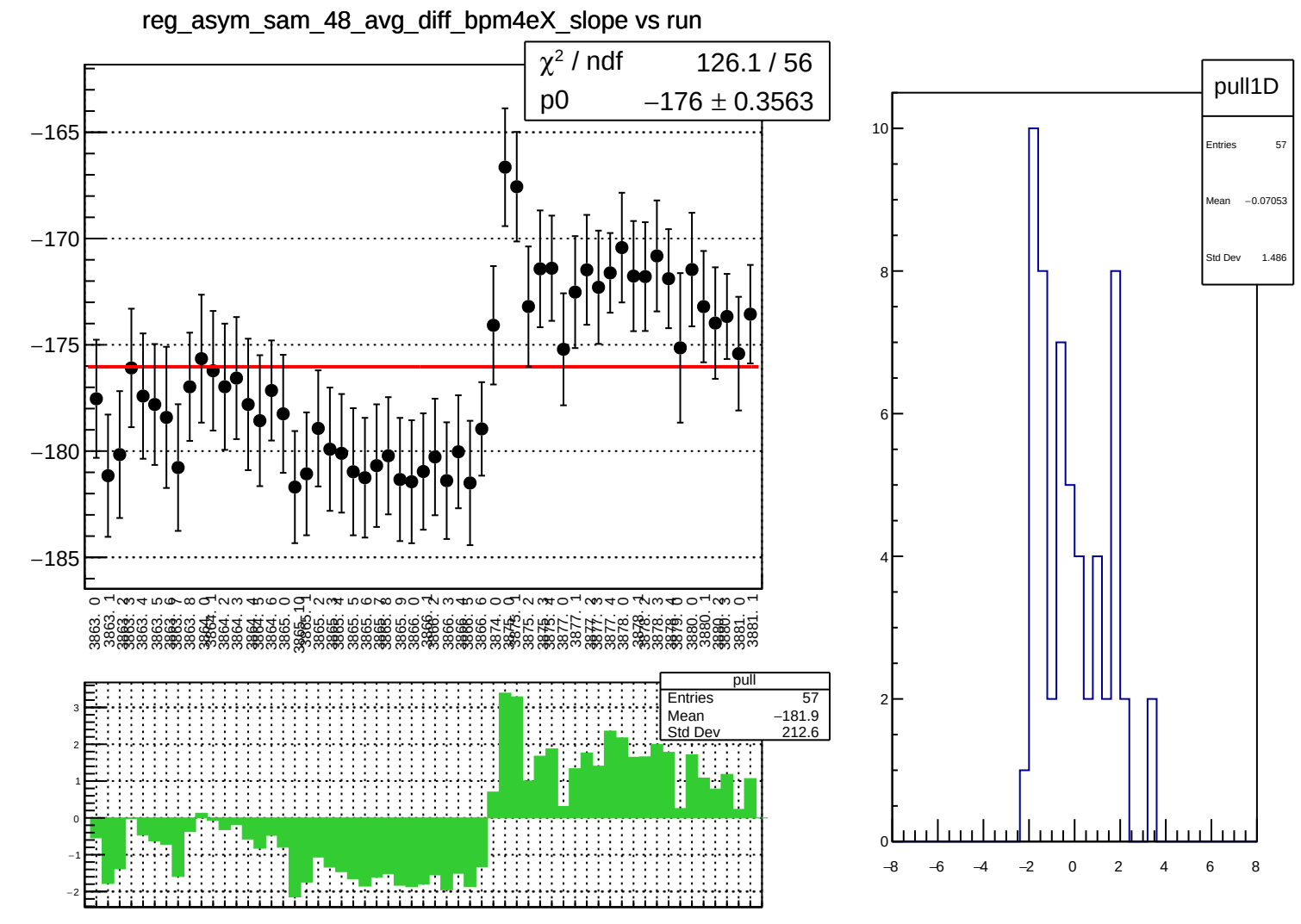

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 32.88 / 56
p0 −4.115 ± 1.287
pull
Entries 57
Mean −100.7
Std Dev 122.3

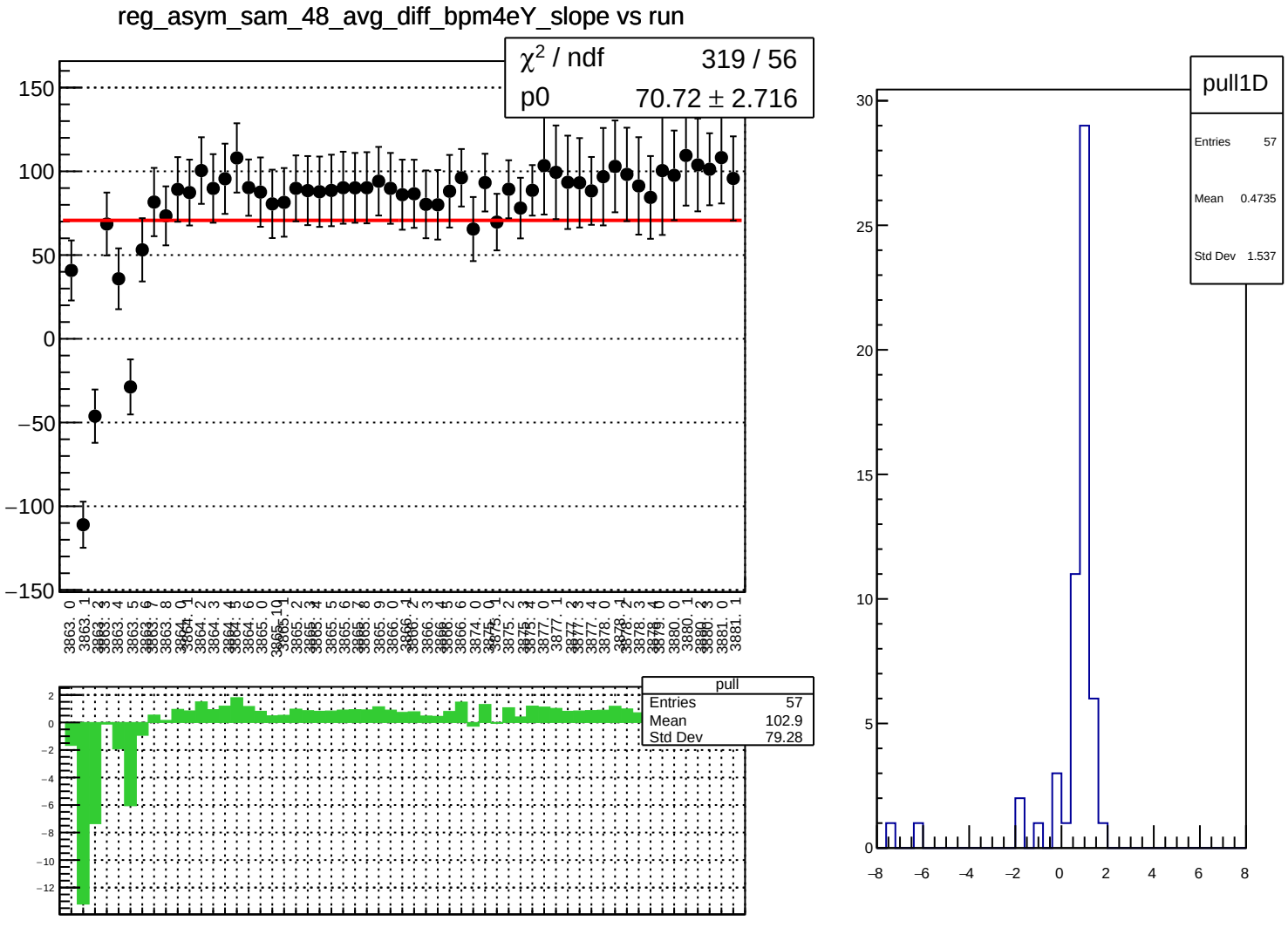

pull1D
Entries 57
Mean 0.06881
Std Dev 0.7563

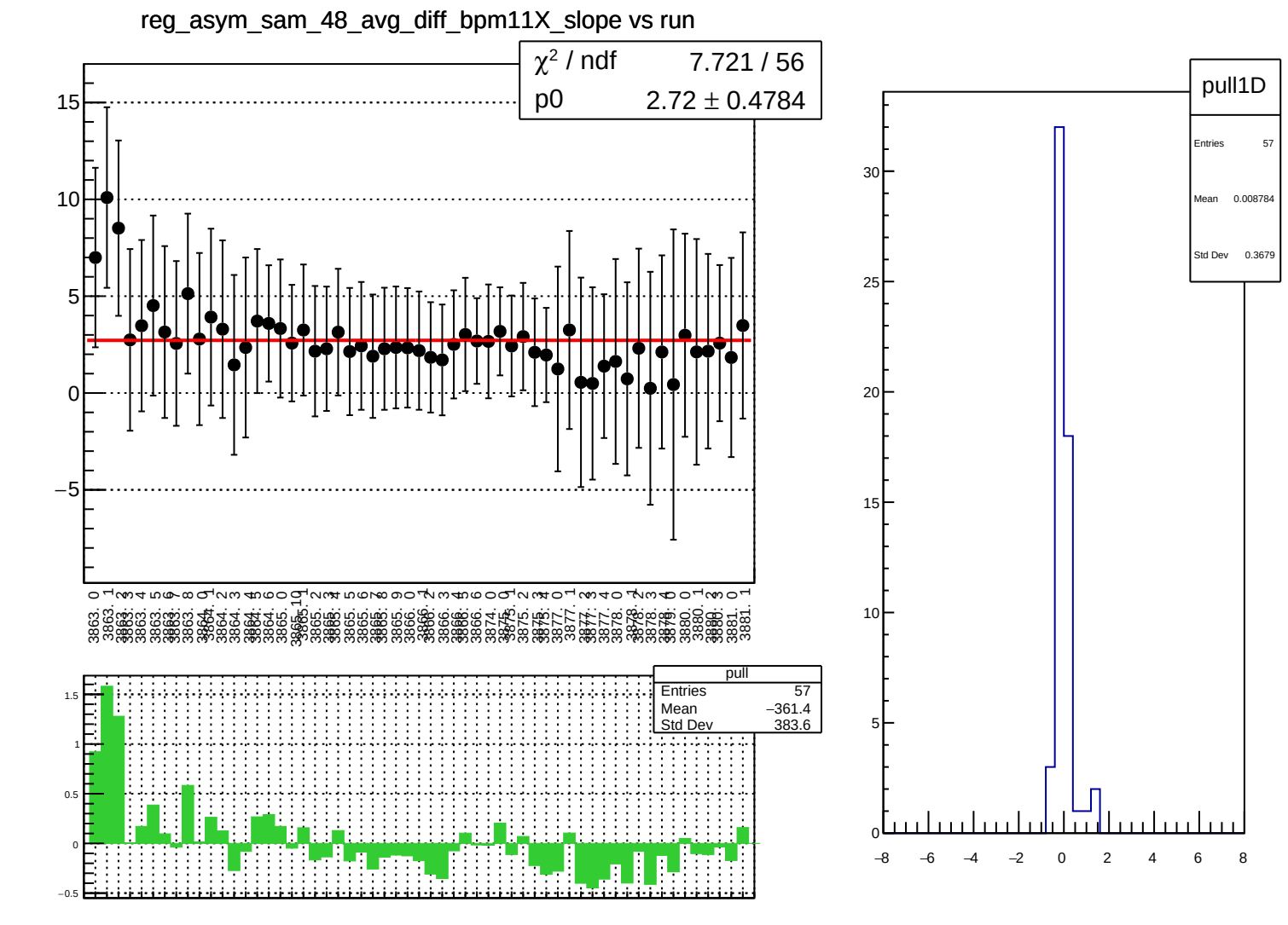

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 16.86 / 56
p0 47.87 ± 2.074
pull
Entries 57
Mean 195.3
Std Dev 163.9

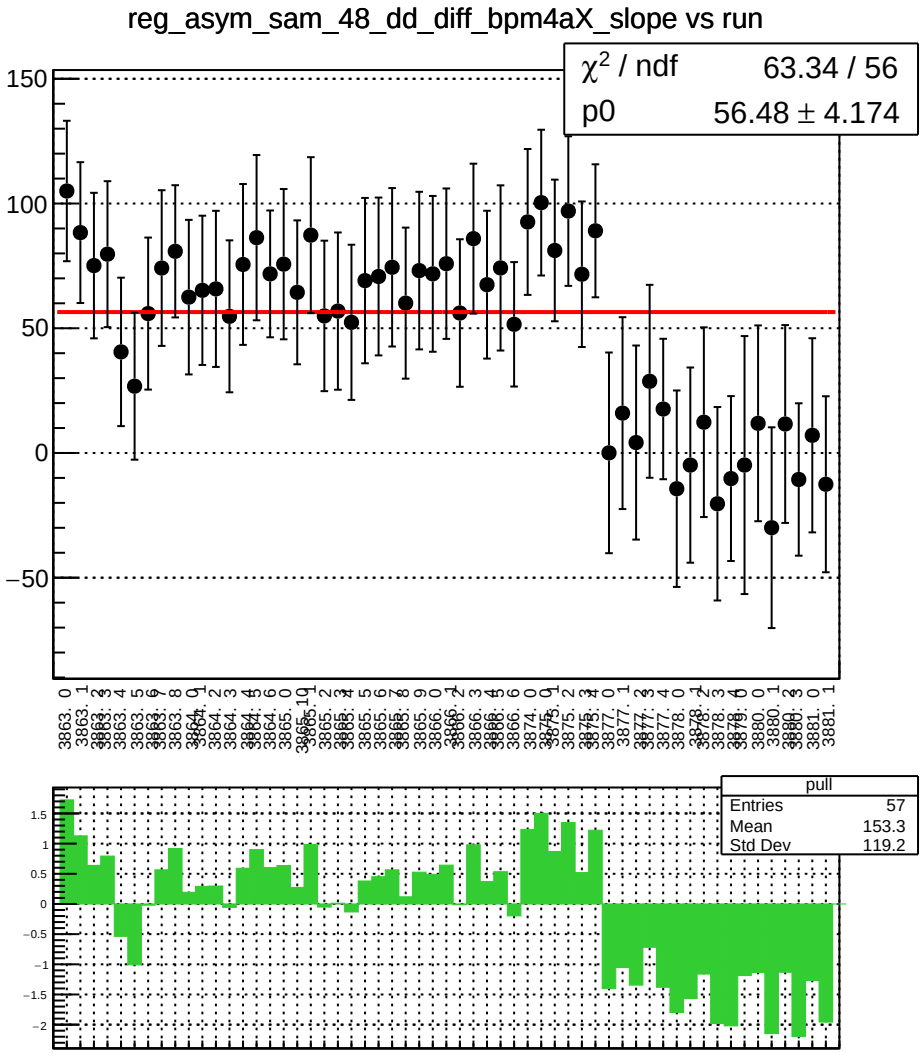

pull1D
Entries 57
Mean −0.02235
Std Dev 0.5434

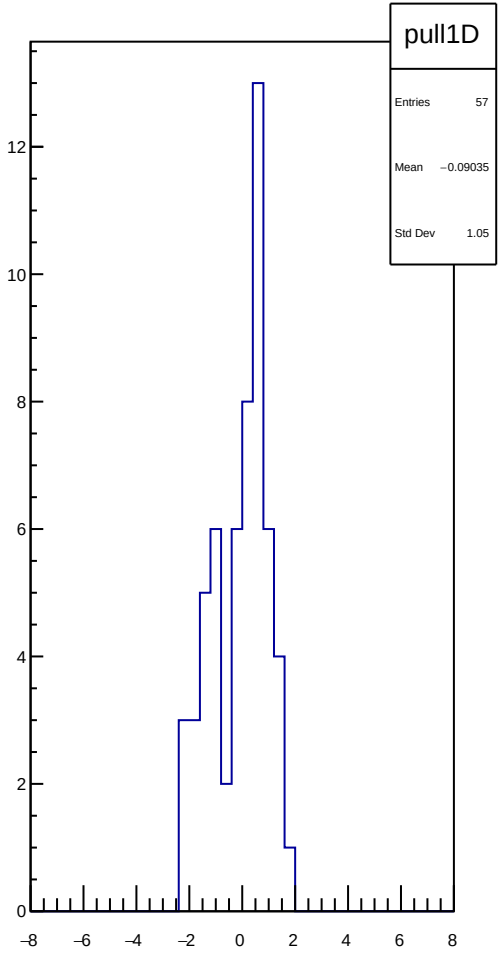

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 302.6 / 56
p0 14.61 ± 1.644
pull
Entries 57
Mean 114.3
Std Dev 90.49
pull1D
Entries 57
Mean −0.4433
Std Dev 1.514

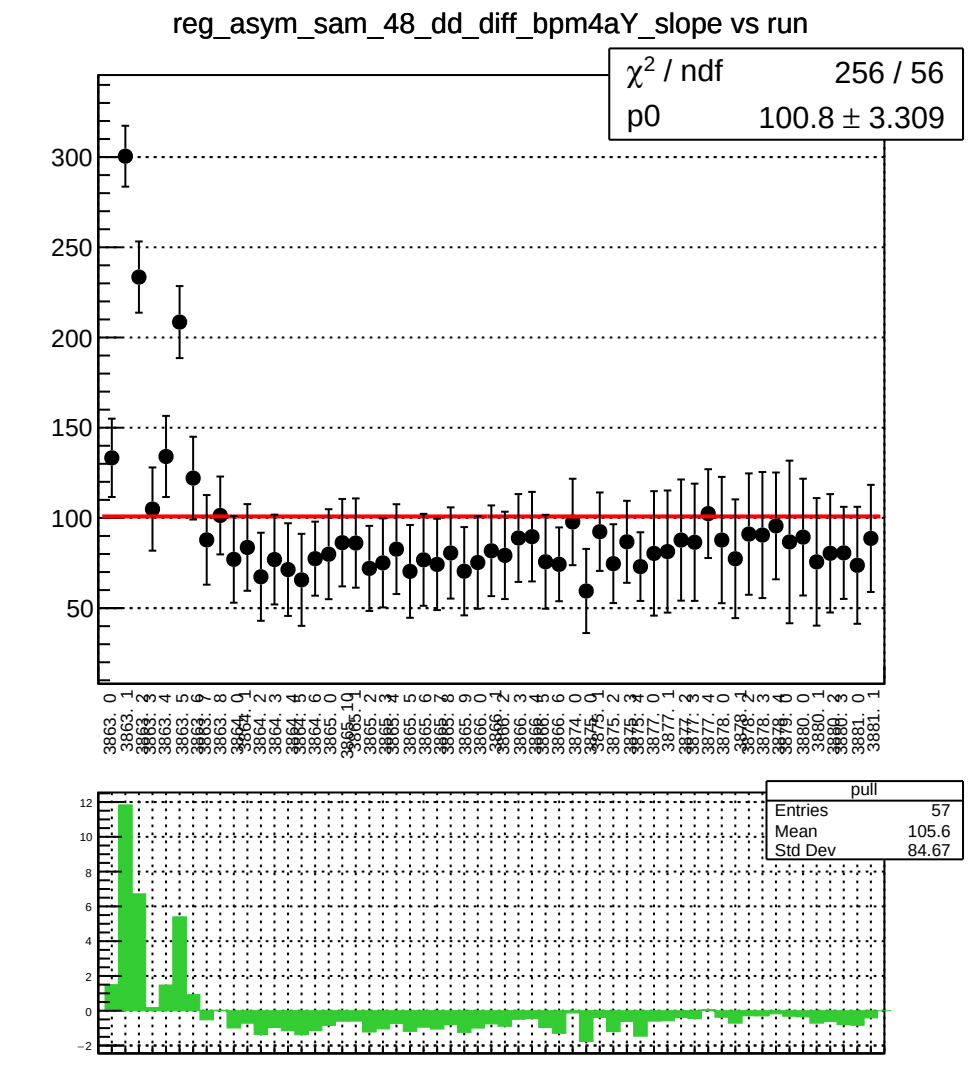

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 126.1 / 56
p0 −176 ± 0.3563
−165
−170
−175
−180
−185
pull
Entries 57
Mean −181.9
Std Dev 212.6
pull1D
Entries 57
Mean −0.07053
Std Dev 1.486

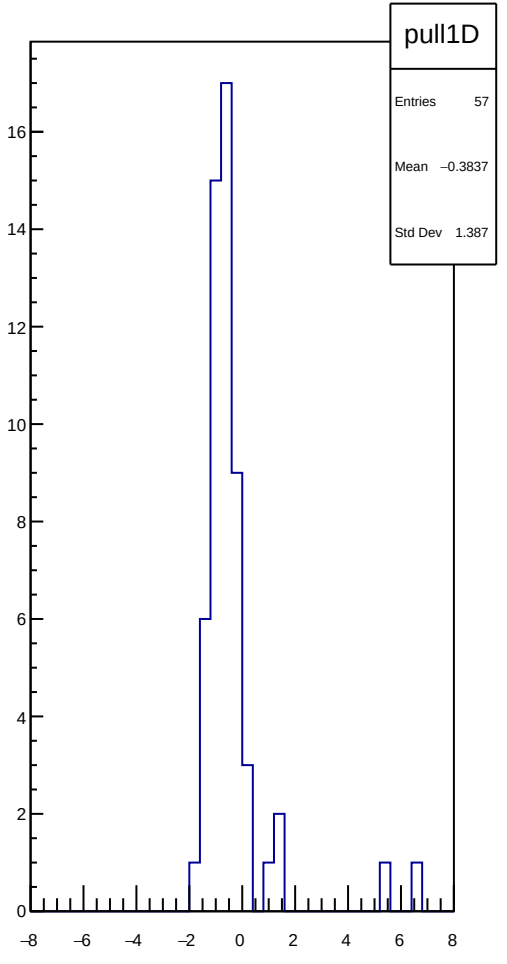

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 319 / 56
p0 70.72 ± 2.716
pull
Entries 57
Mean 102.9
Std Dev 79.28
pull1D
Entries 57
Mean 0.4735
Std Dev 1.537

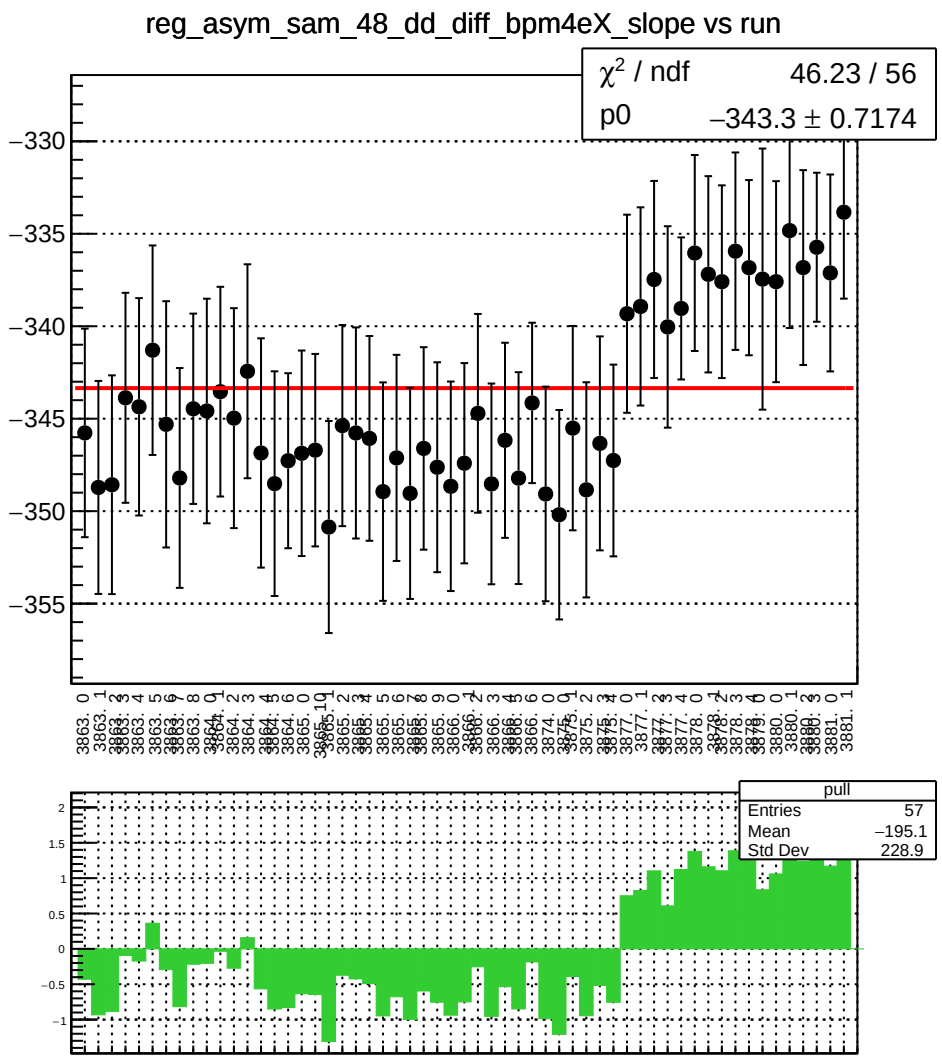

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 7.721 / 56
p0 2.72 ± 0.4784
pull
Entries 57
Mean −361.4
Std Dev 383.6
pull1D
Entries 57
Mean 0.008784
Std Dev 0.3679

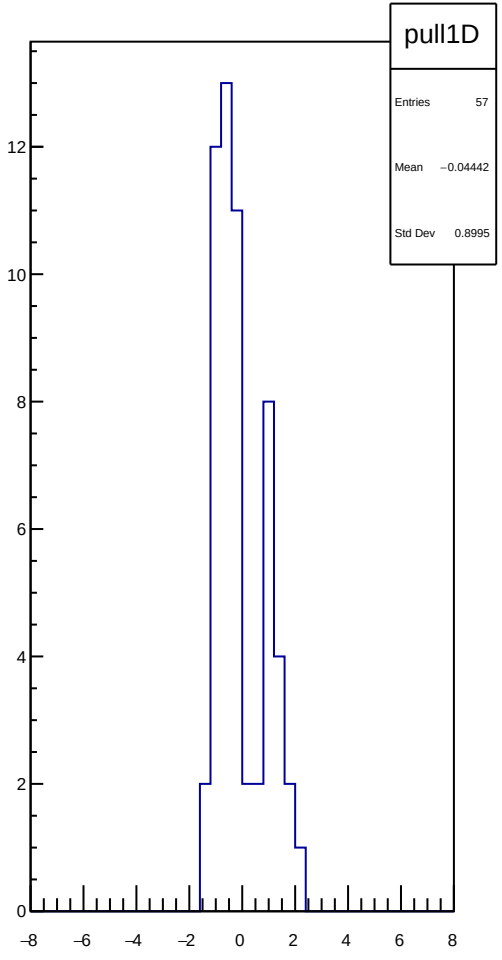

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 63.34 / 56
p0 56.48 ± 4.174
150
100
50
0
−50
pull
Entries 57
Mean 153.3
Std Dev 119.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

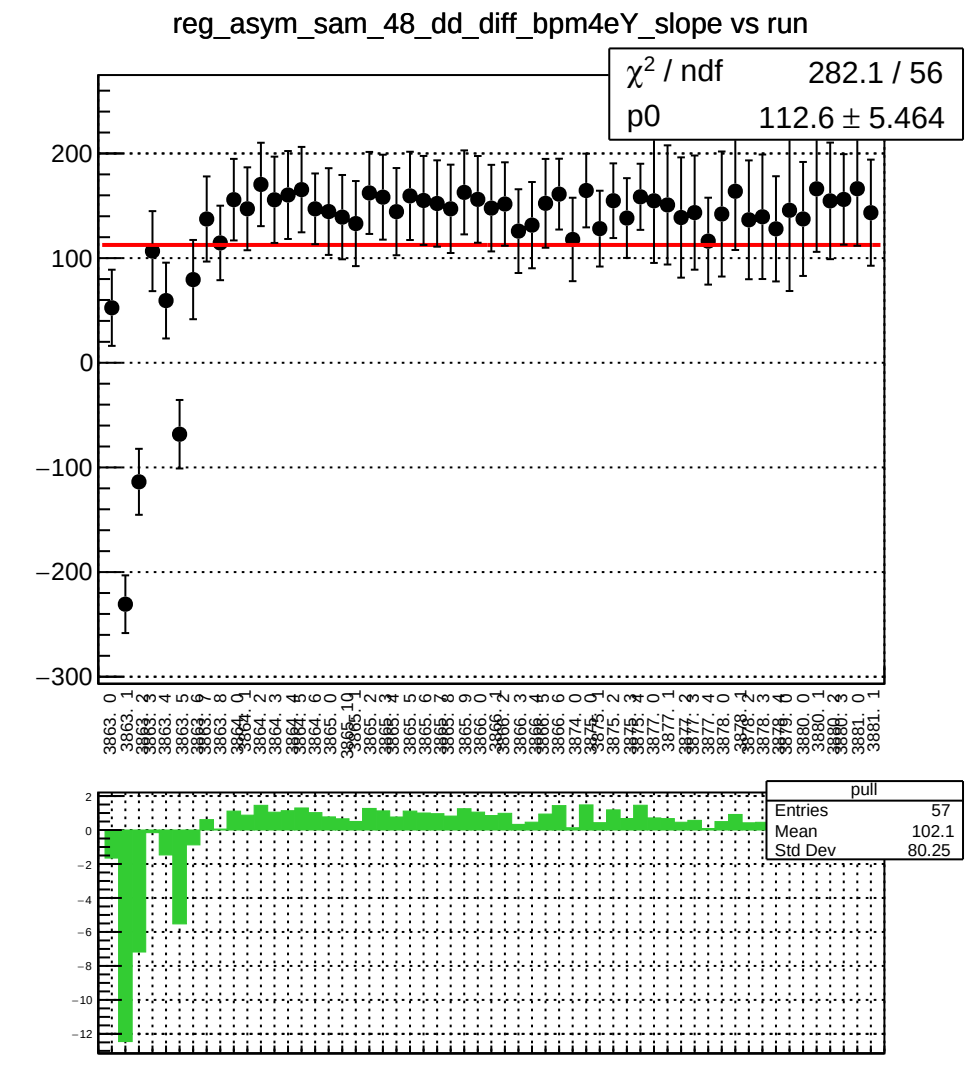

pull1D
Entries 57
Mean −0.09035
Std Dev 1.05
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

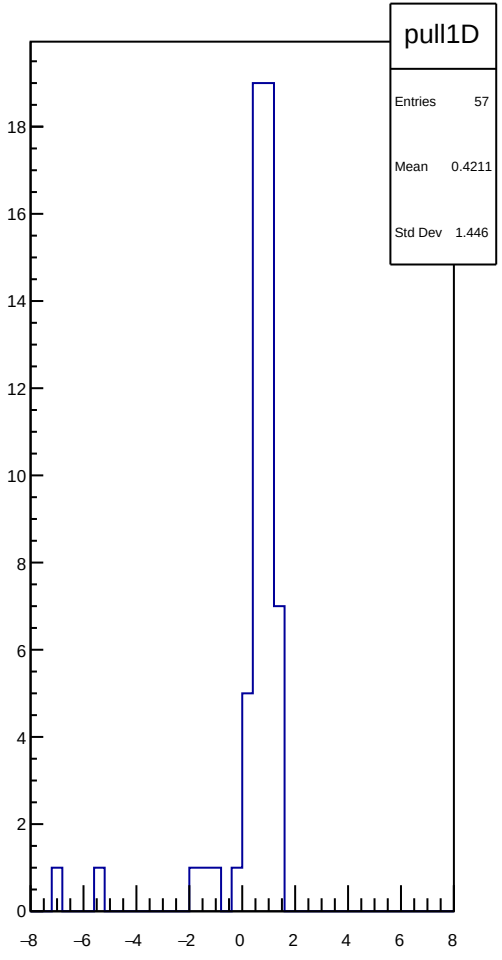

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 256 / 56
p0 100.8 ± 3.309
300
250
200
150
100
50
pull
Entries 57
Mean 105.6
Std Dev 84.67
12
10
8
6
4
2
0
−2

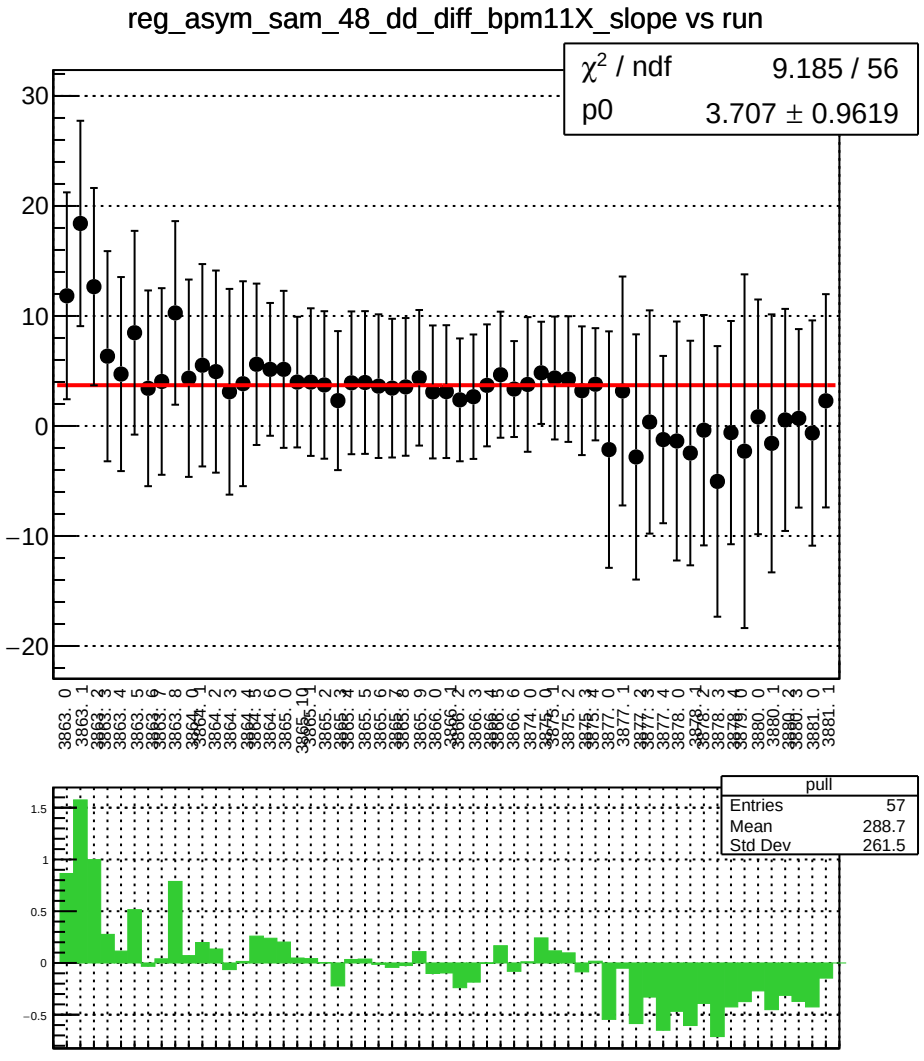

pull1D
Entries 57
Mean −0.3837
Std Dev 1.387
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

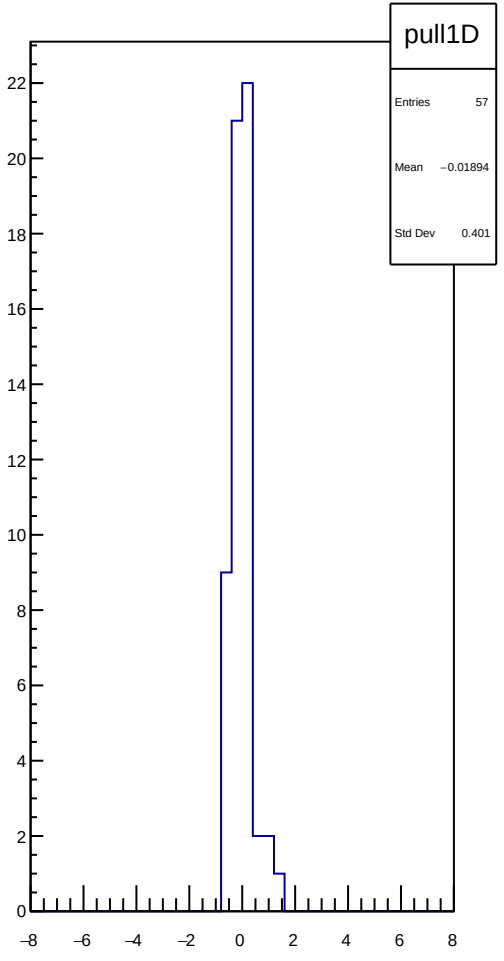

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.23 / 56
p0 −343.3 ± 0.7174
−330
−335
−340
−345
−350
−355
pull
Entries 57
Mean −195.1
Std Dev 228.9
2
1.5
1
0.5
0
−0.5
−1

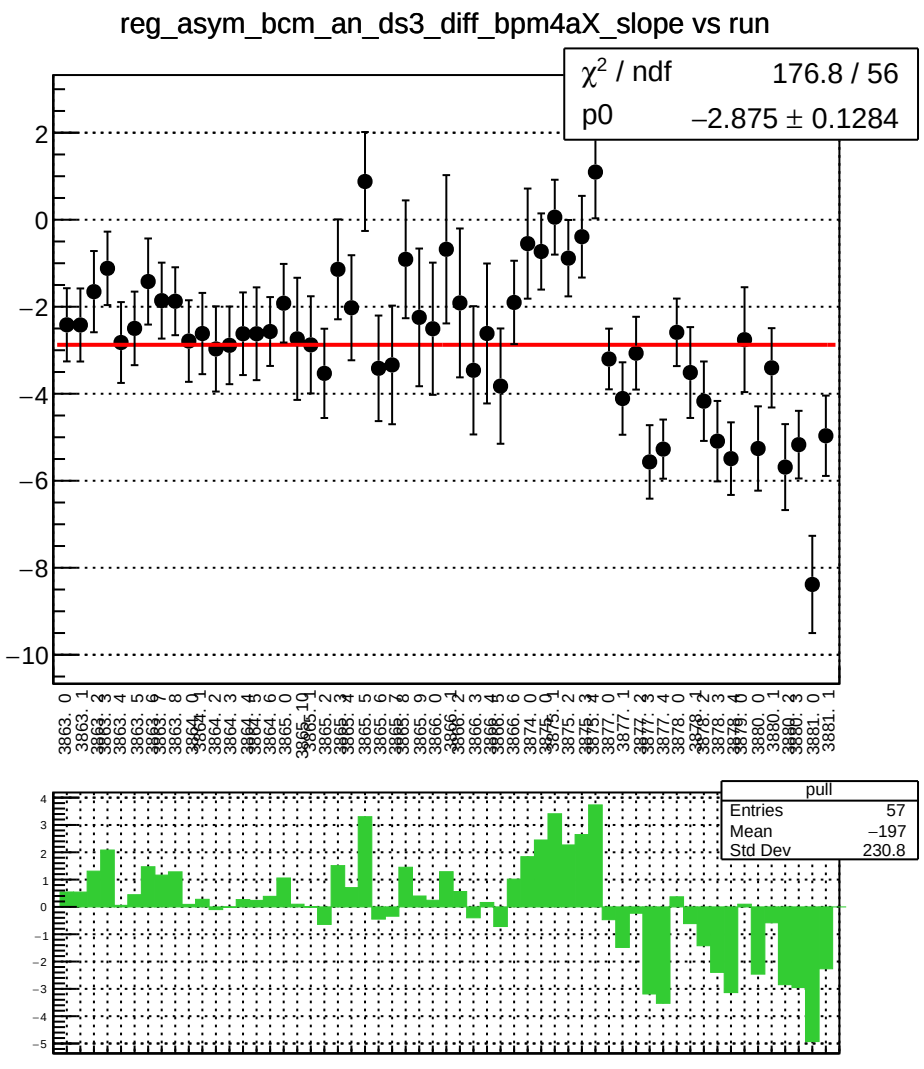

pull1D
Entries 57
Mean −0.04442
Std Dev 0.8995
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

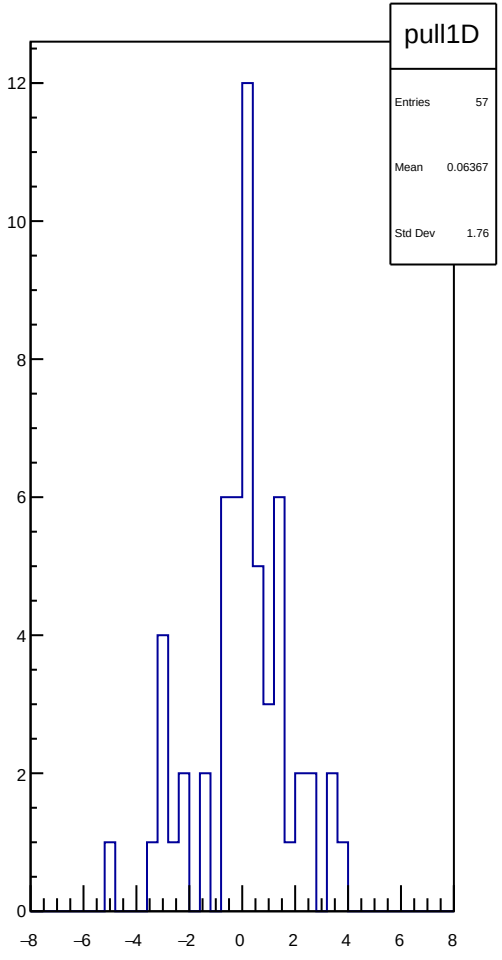

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 282.1 / 56
p0 112.6 ± 5.464
pull
Entries 57
Mean 102.1
Std Dev 80.25

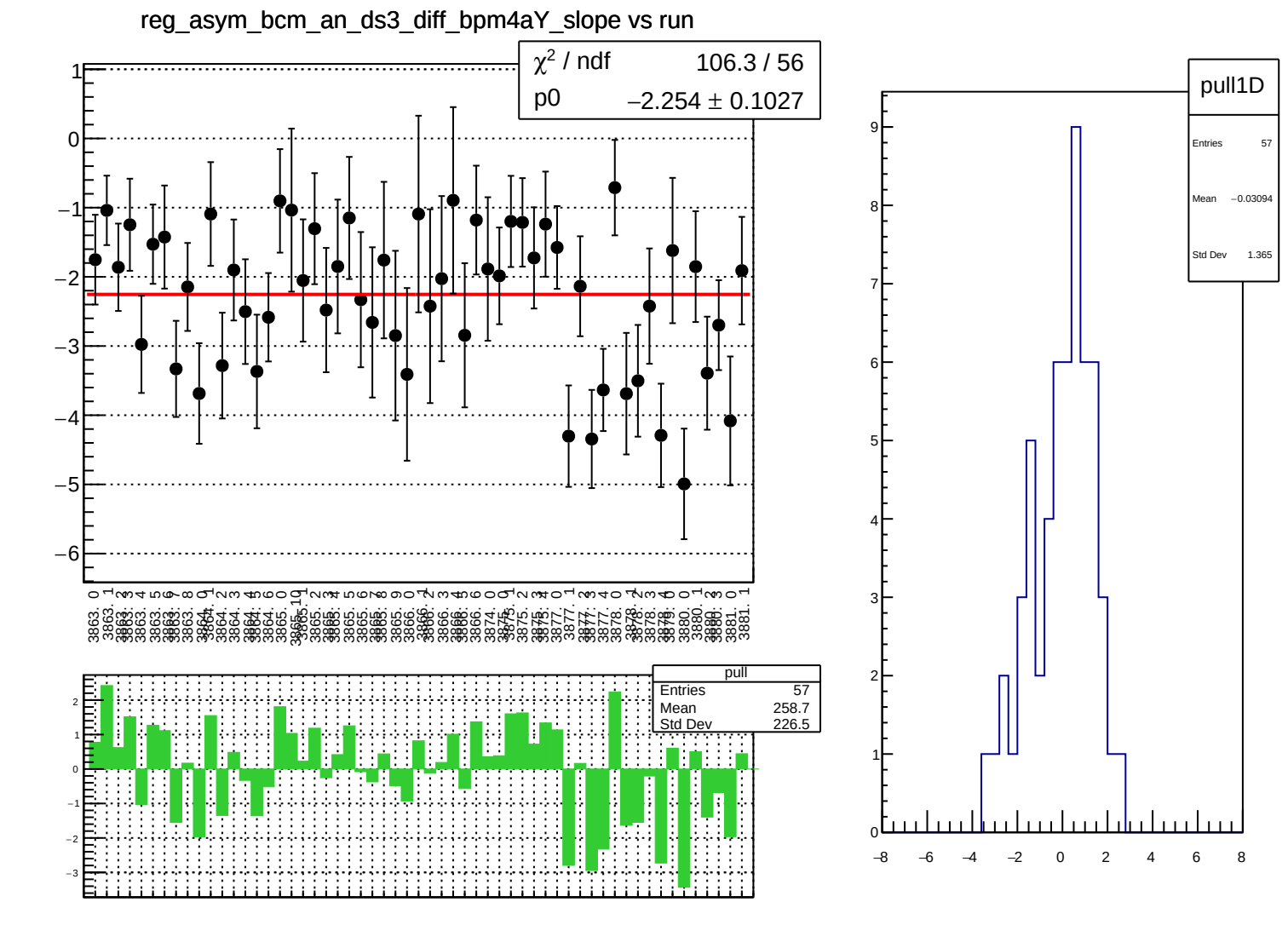

pull1D
Entries 57
Mean 0.4211
Std Dev 1.446

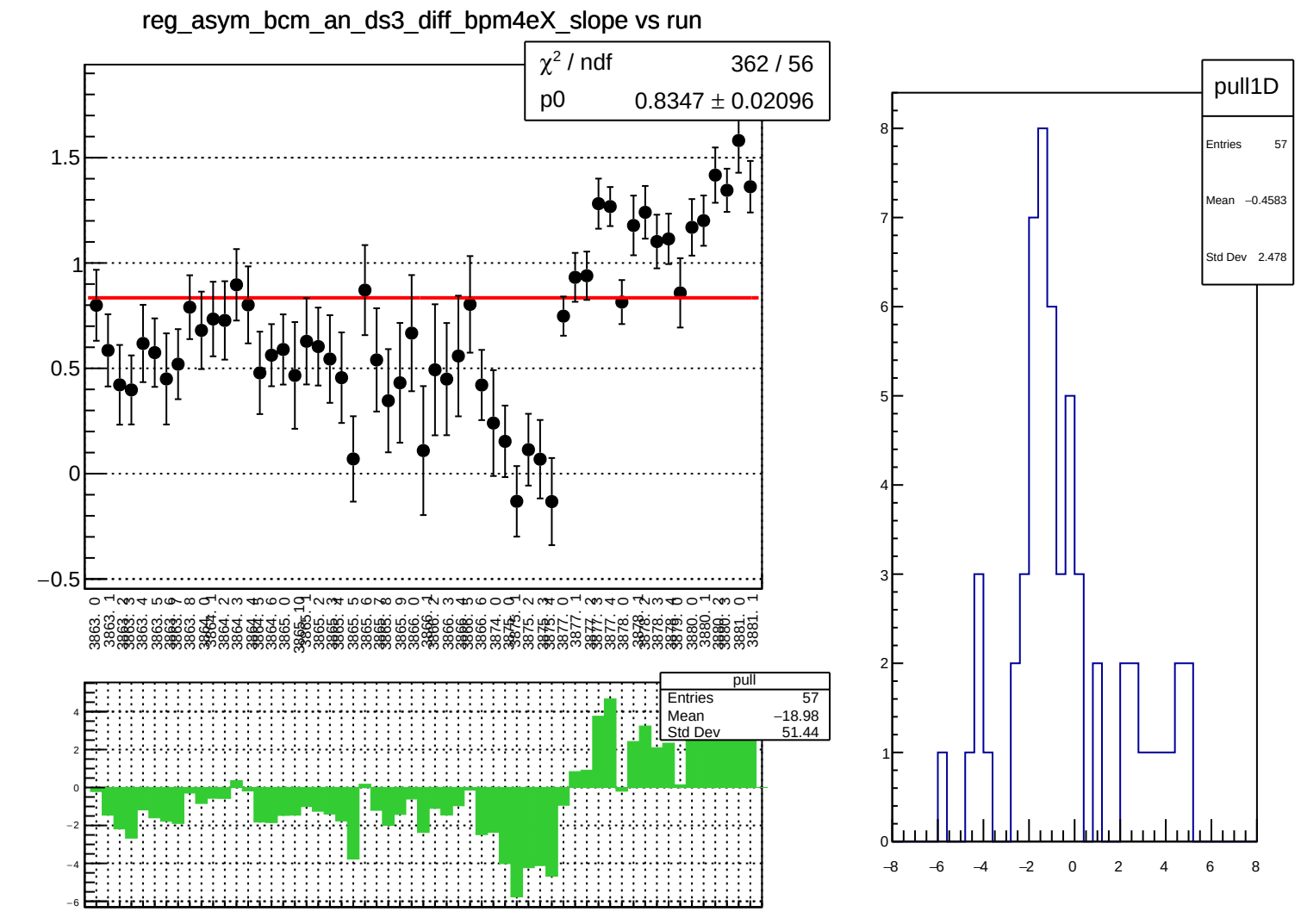

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 9.185 / 56
p0 3.707 ± 0.9619
pull
Entries 57
Mean 288.7
Std Dev 261.5

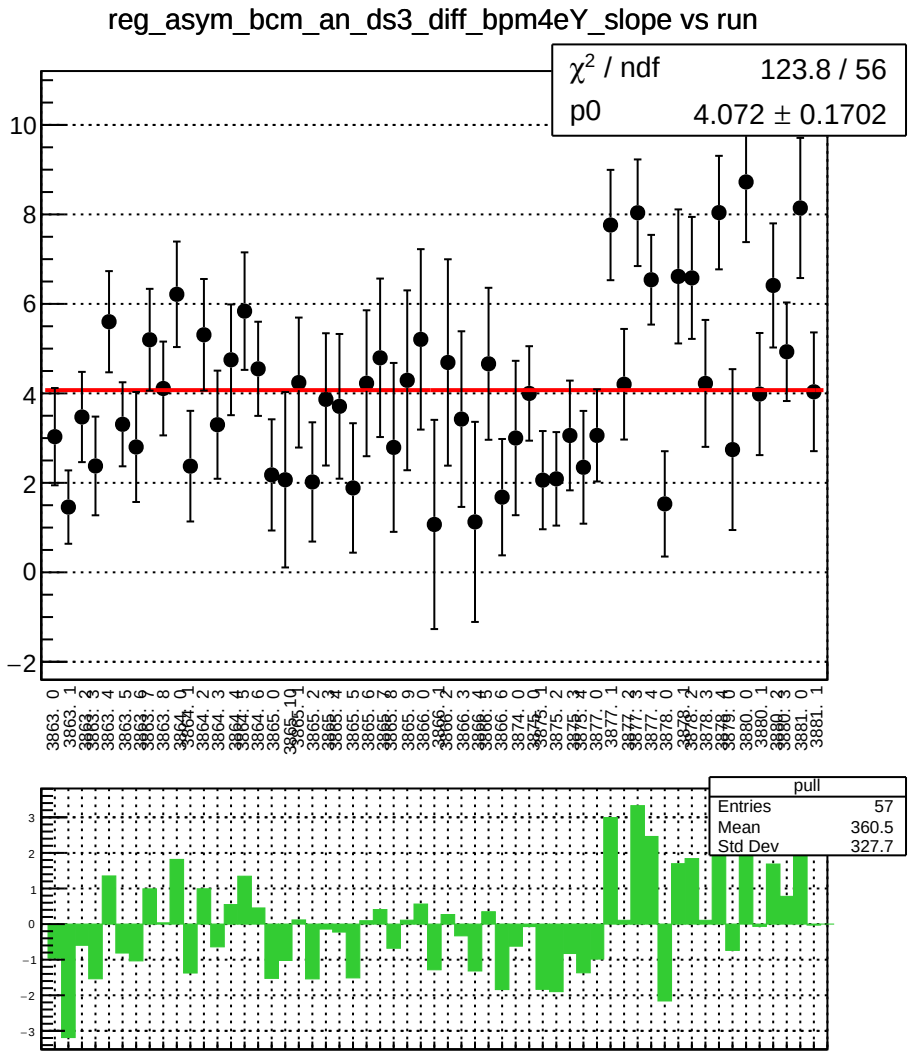

pull1D
Entries 57
Mean −0.01894
Std Dev 0.401

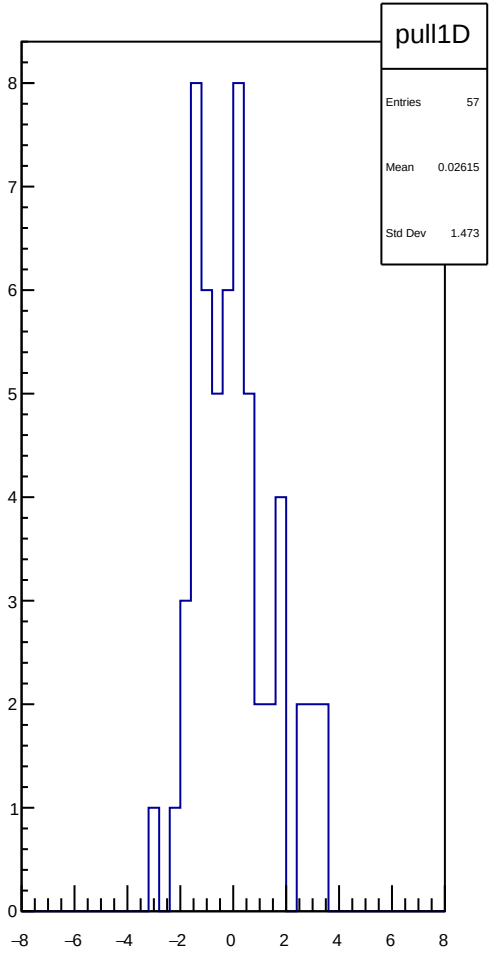

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 176.8 / 56
p0 −2.875 ± 0.1284
pull
Entries 57
Mean −197
Std Dev 230.8

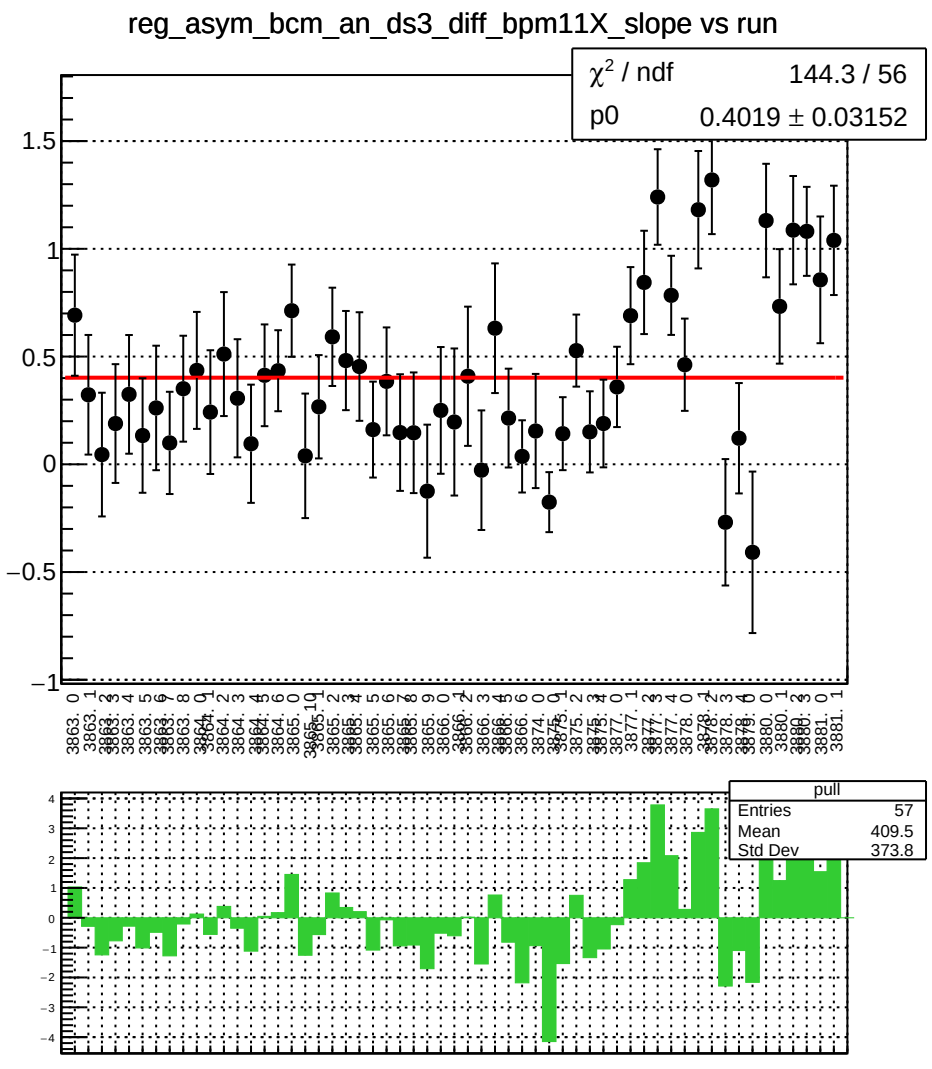

pull1D
Entries 57
Mean 0.06367
Std Dev 1.76

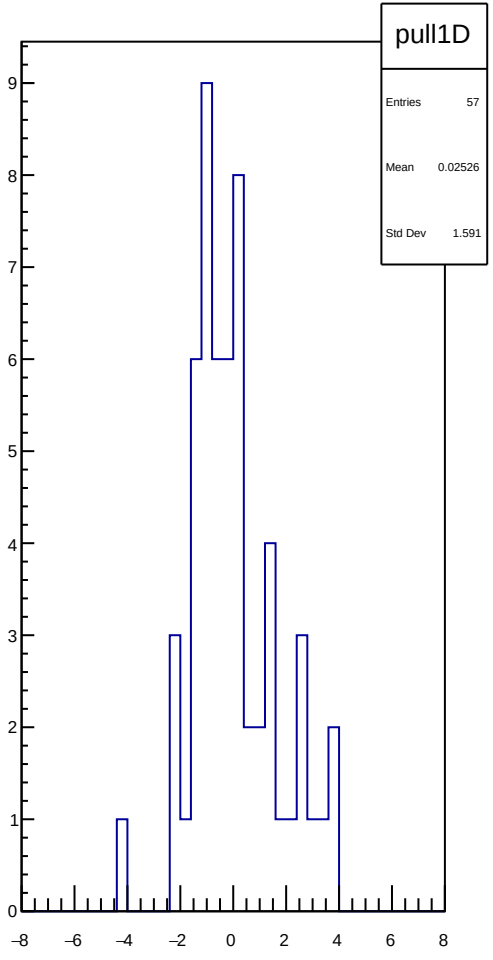

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 106.3 / 56
p0 −2.254 ± 0.1027
pull
Entries 57
Mean 258.7
Std Dev 226.5
pull1D
Entries 57
Mean −0.03094
Std Dev 1.365

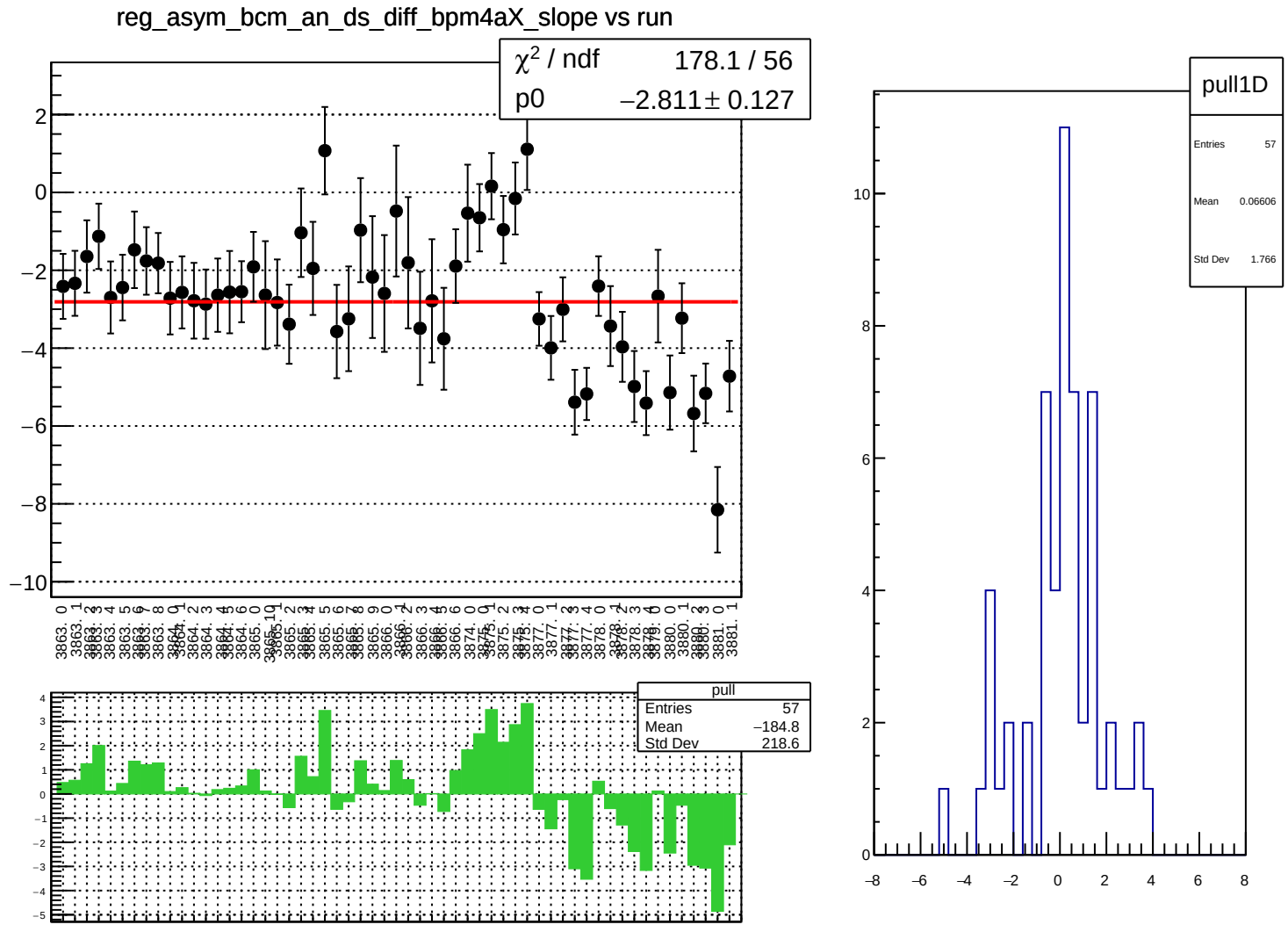

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 362 / 56
p0 0.8347 ± 0.02096
pull
Entries 57
Mean −18.98
Std Dev 51.44
pull1D
Entries 57
Mean −0.4583
Std Dev 2.478

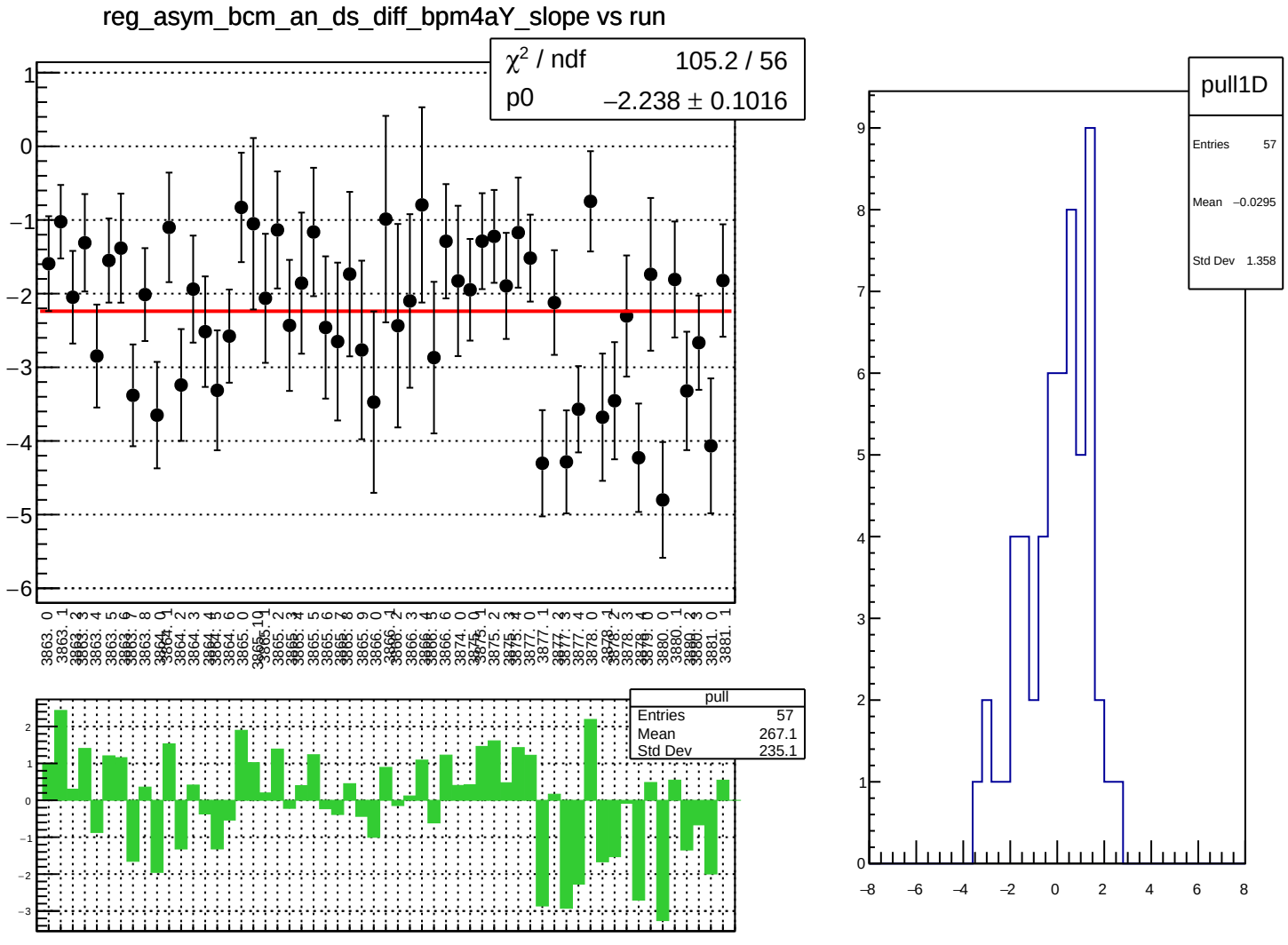

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 123.8 / 56
p0 4.072 ± 0.1702
pull
Entries 57
Mean 360.5
Std Dev 327.7

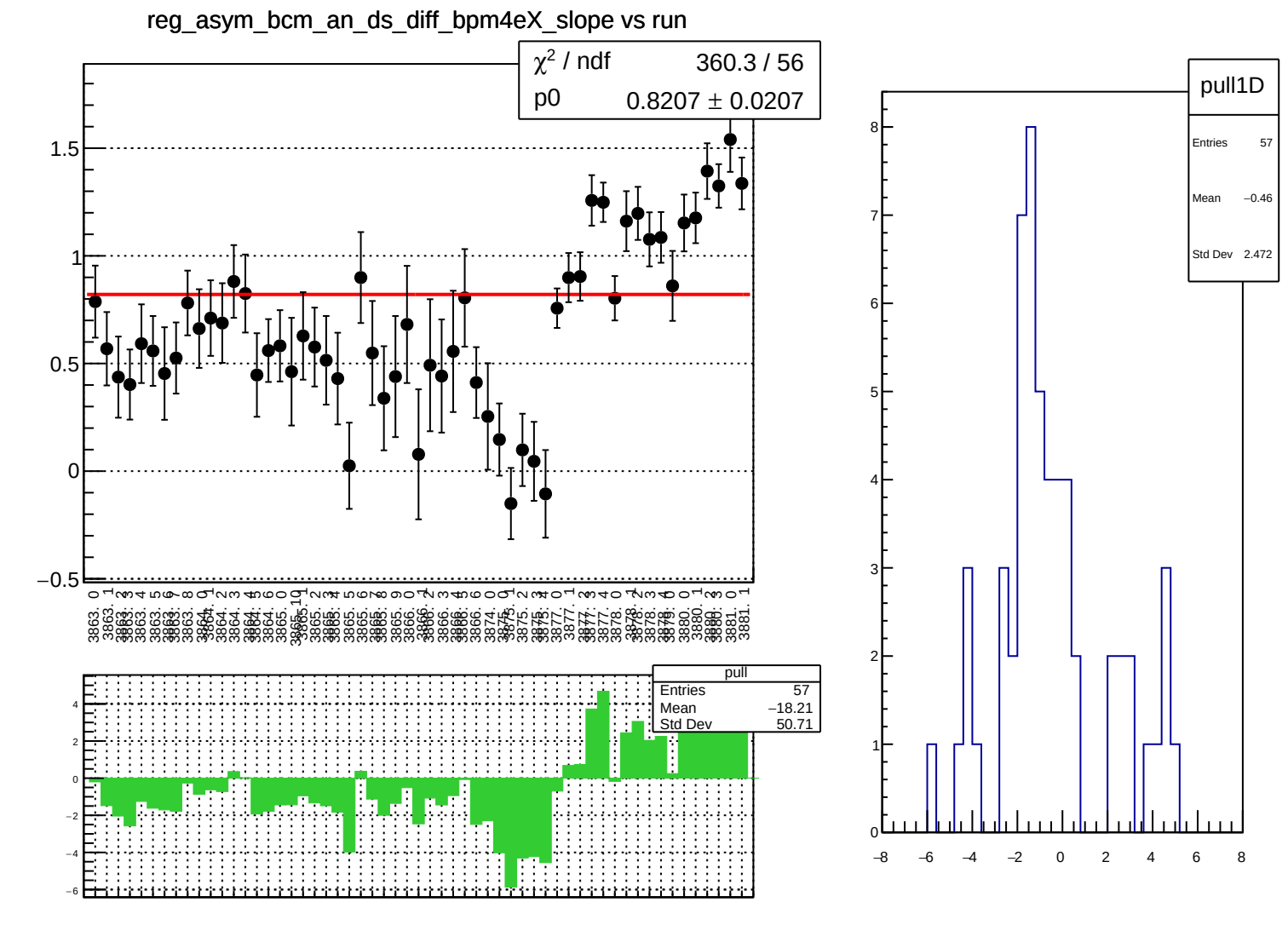

pull1D
Entries 57
Mean 0.02615
Std Dev 1.473

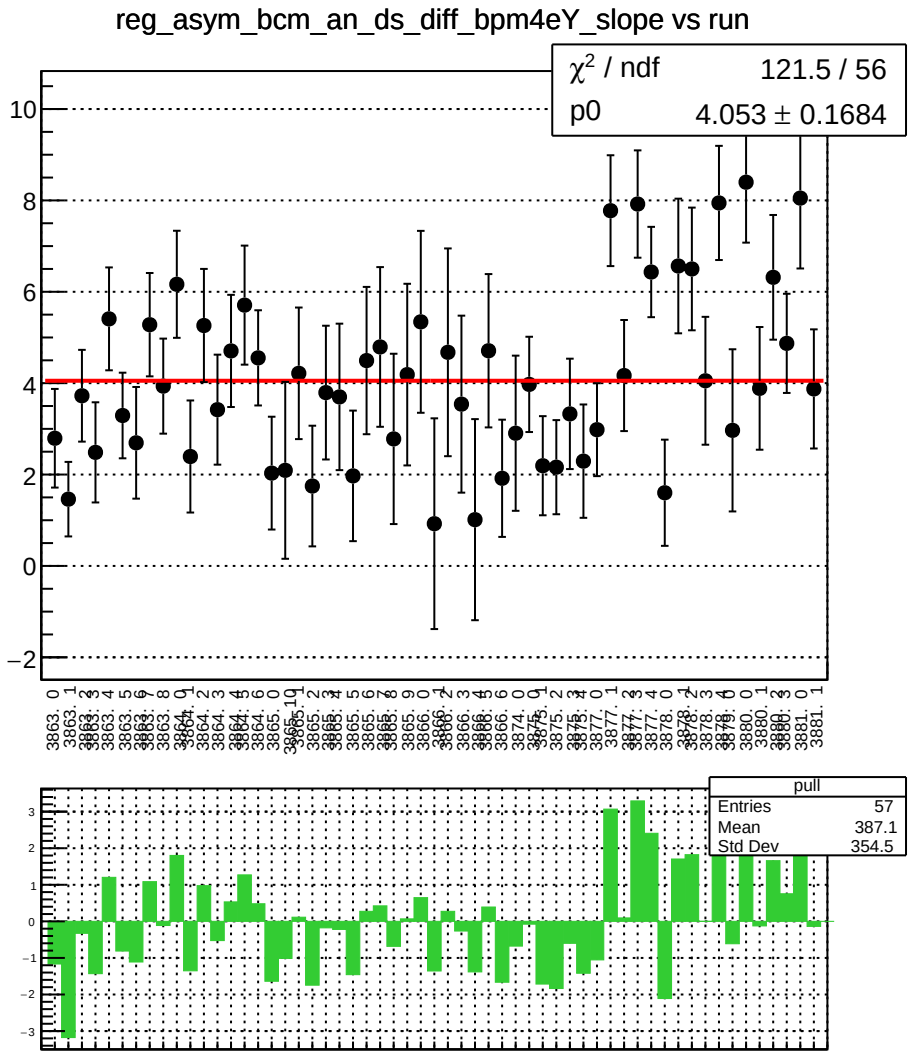

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 144.3 / 56
p0 0.4019 ± 0.03152
pull
Entries 57
Mean 409.5
Std Dev 373.8

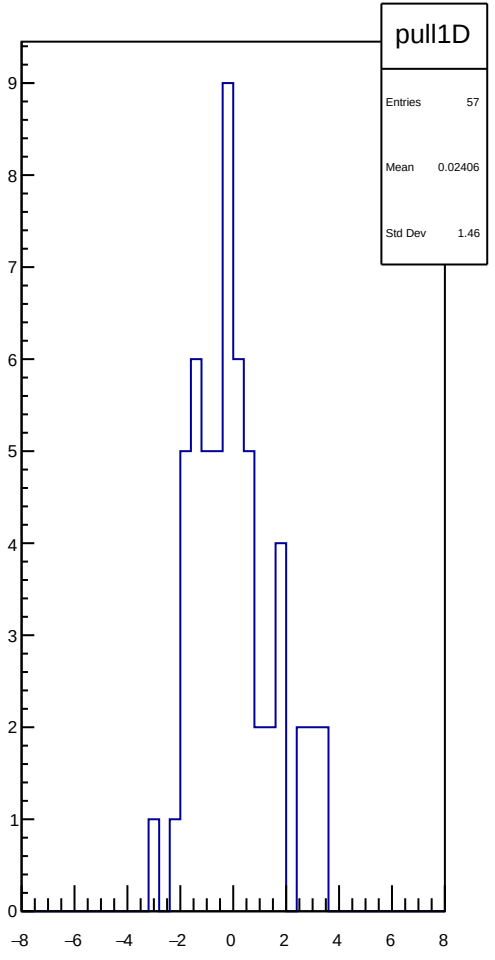

pull1D
Entries 57
Mean 0.02526
Std Dev 1.591

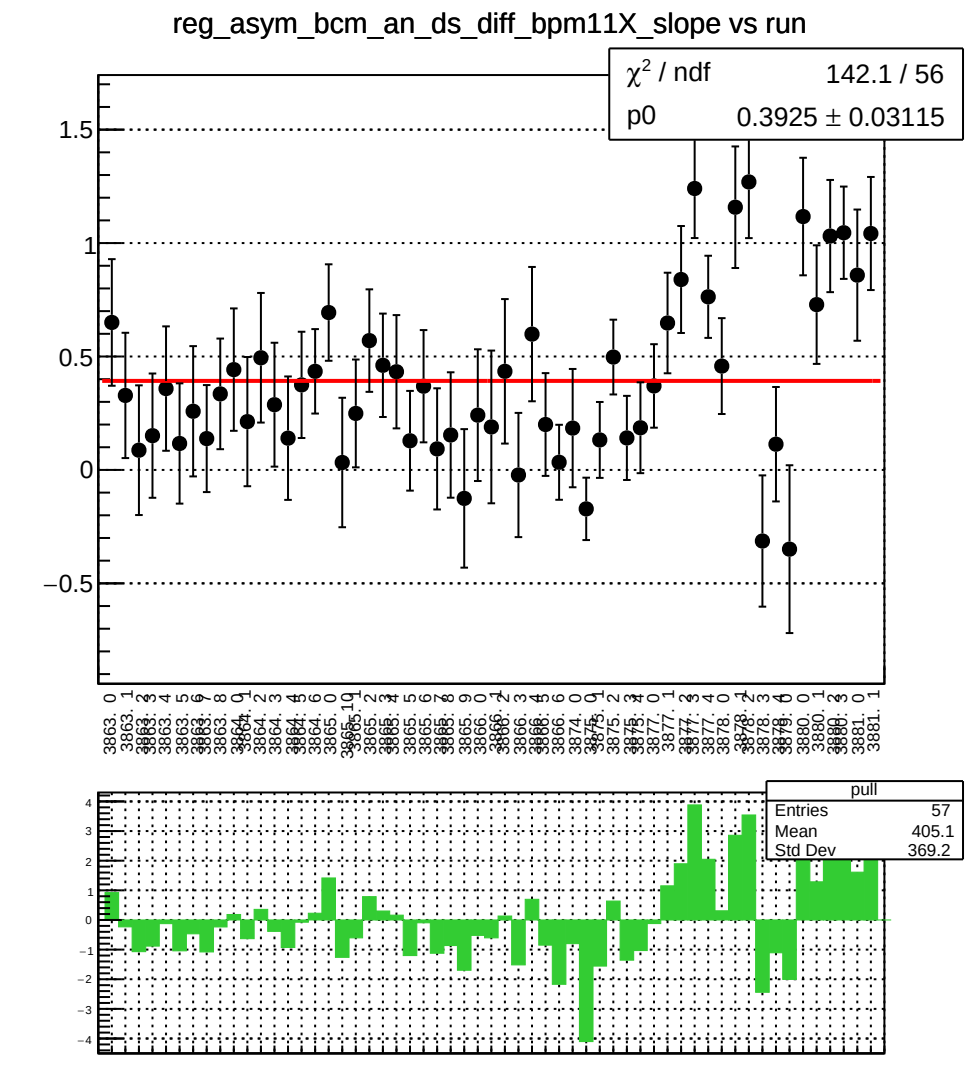

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 178.1 / 56
p0 −2.811 ± 0.127
pull
Entries 57
Mean −184.8
Std Dev 218.6
pull1D
Entries 57
Mean 0.06606
Std Dev 1.766

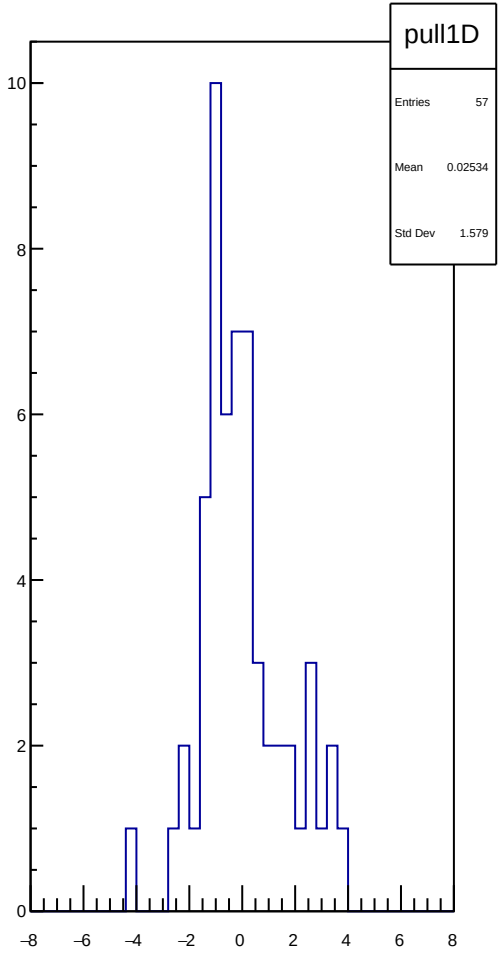

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 105.2 / 56
p0 −2.238 ± 0.1016
pull
Entries 57
Mean 267.1
Std Dev 235.1
pull1D
Entries 57
Mean −0.0295
Std Dev 1.358

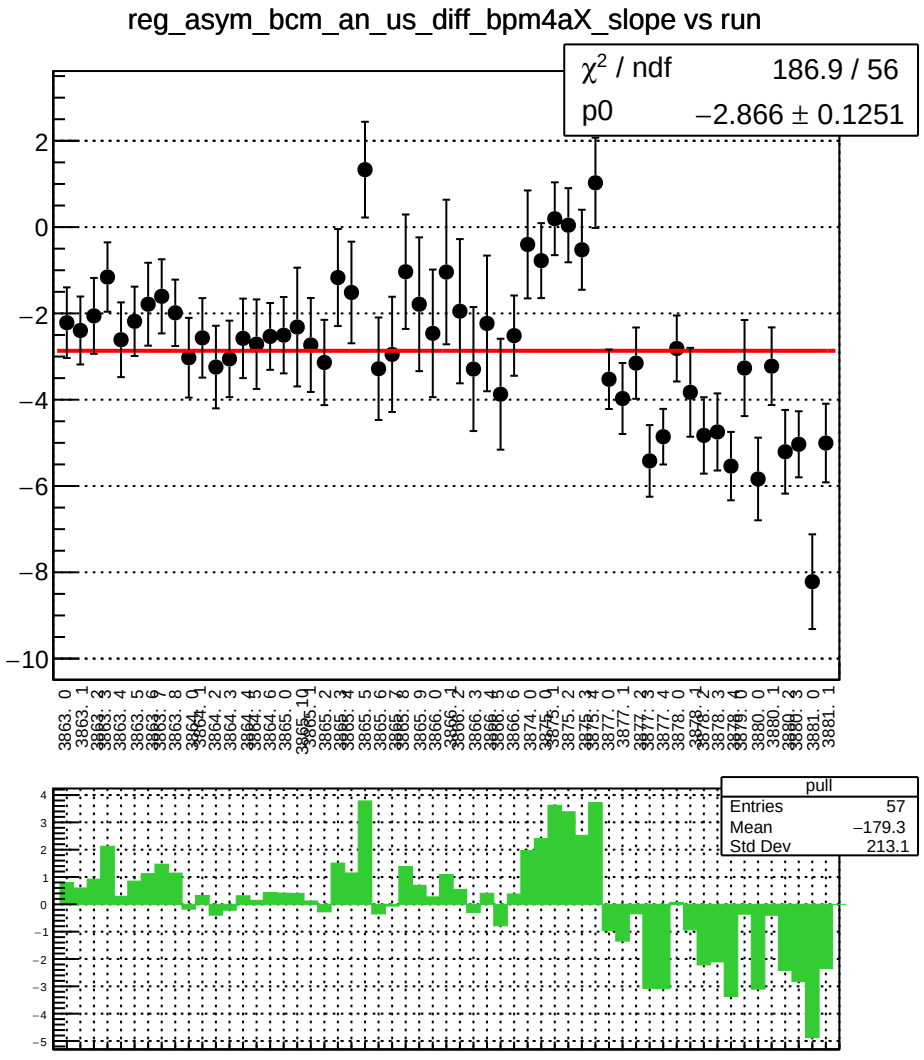

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 360.3 / 56
p0 0.8207 ± 0.0207
pull
Entries 57
Mean −18.21
Std Dev 50.71
pull1D
Entries 57
Mean −0.46
Std Dev 2.472

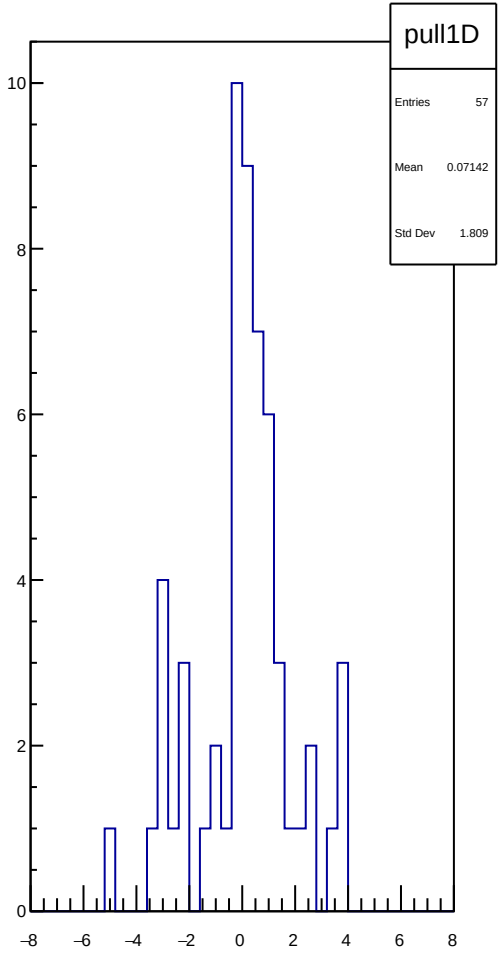

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 121.5 / 56
p0 4.053 ± 0.1684
pull
Entries 57
Mean 387.1
Std Dev 354.5

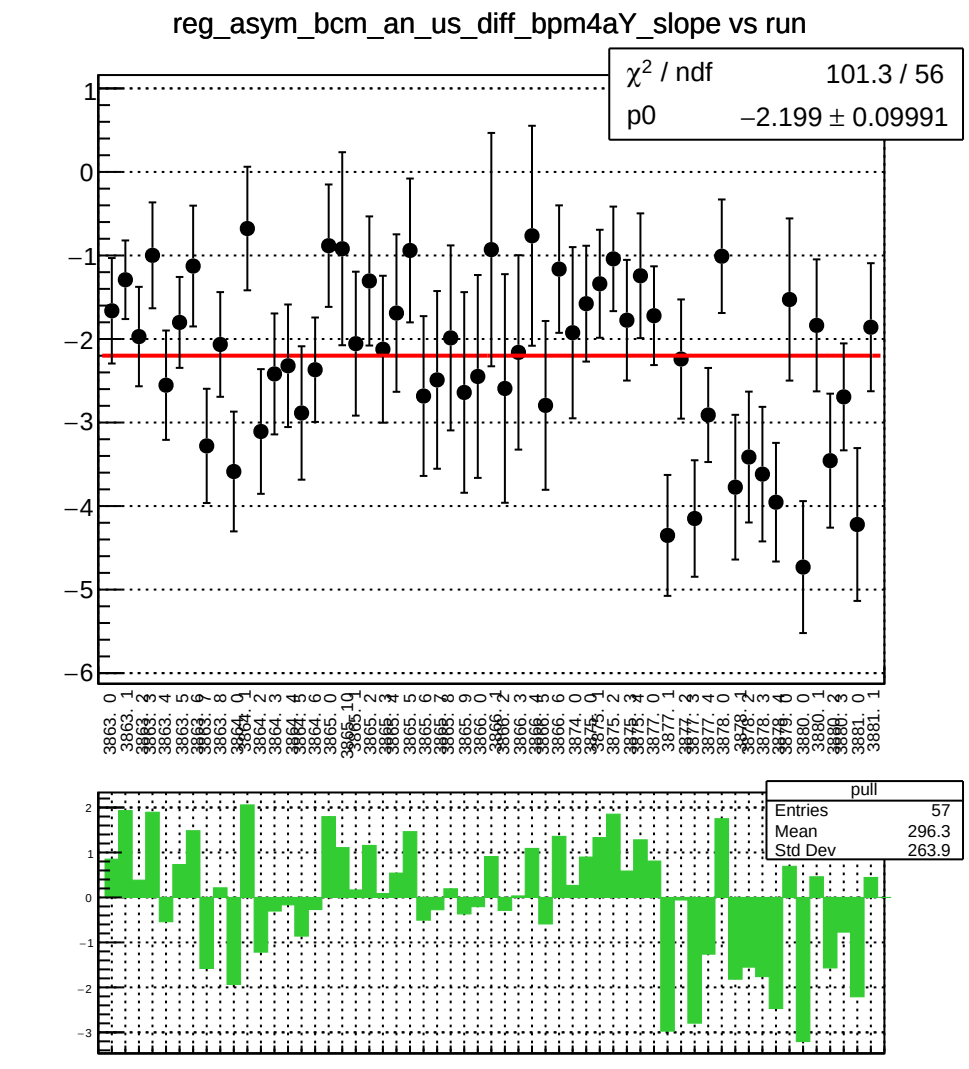

pull1D
Entries 57
Mean 0.02406
Std Dev 1.46

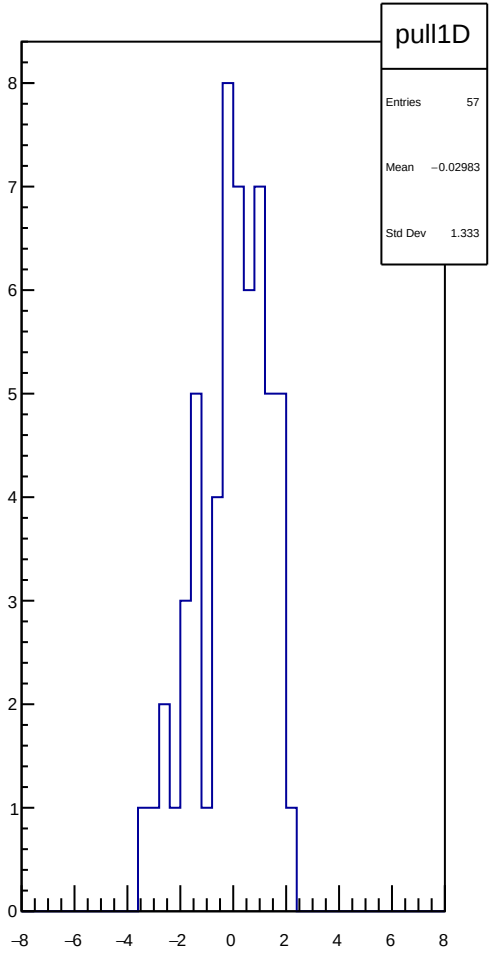

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 142.1 / 56
p0 0.3925 ± 0.03115
pull
Entries 57
Mean 405.1
Std Dev 369.2

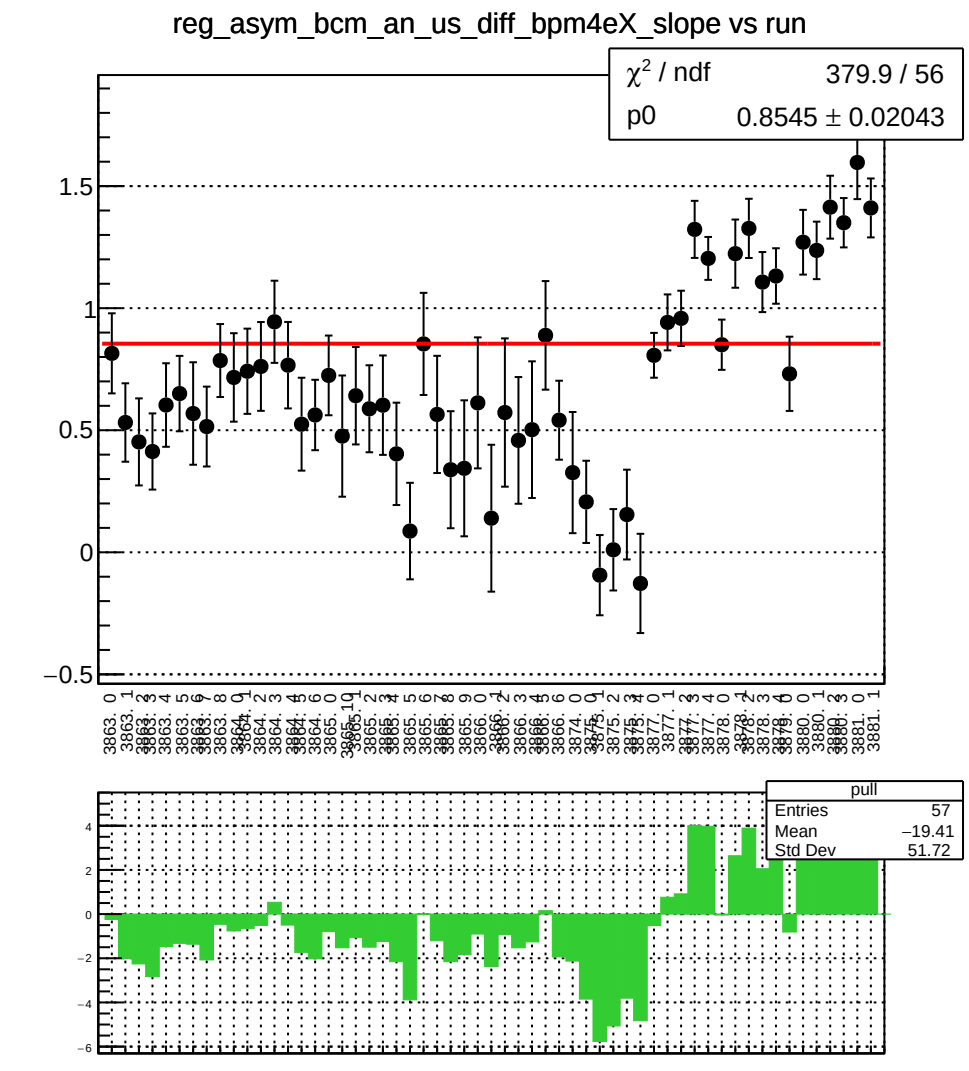

pull1D
Entries 57
Mean 0.02534
Std Dev 1.579

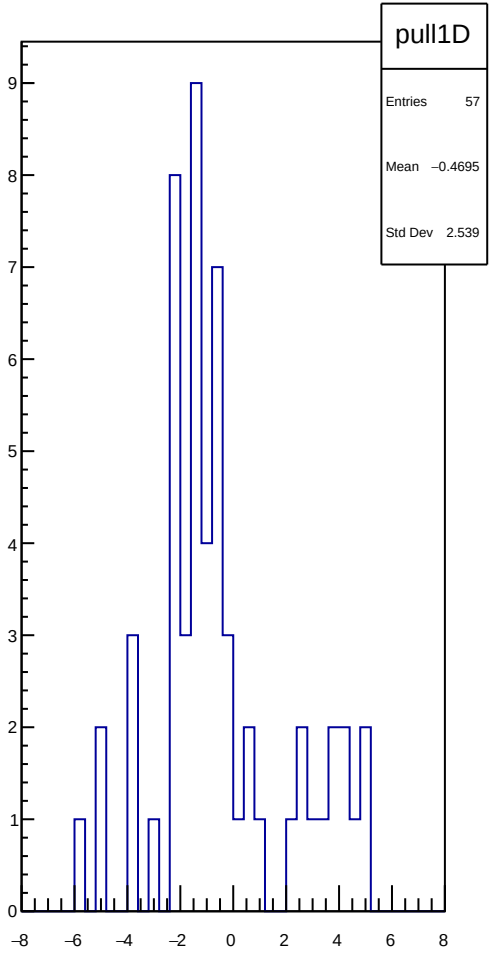

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 186.9 / 56
p0 −2.866 ± 0.1251
pull
Entries 57
Mean −179.3
Std Dev 213.1

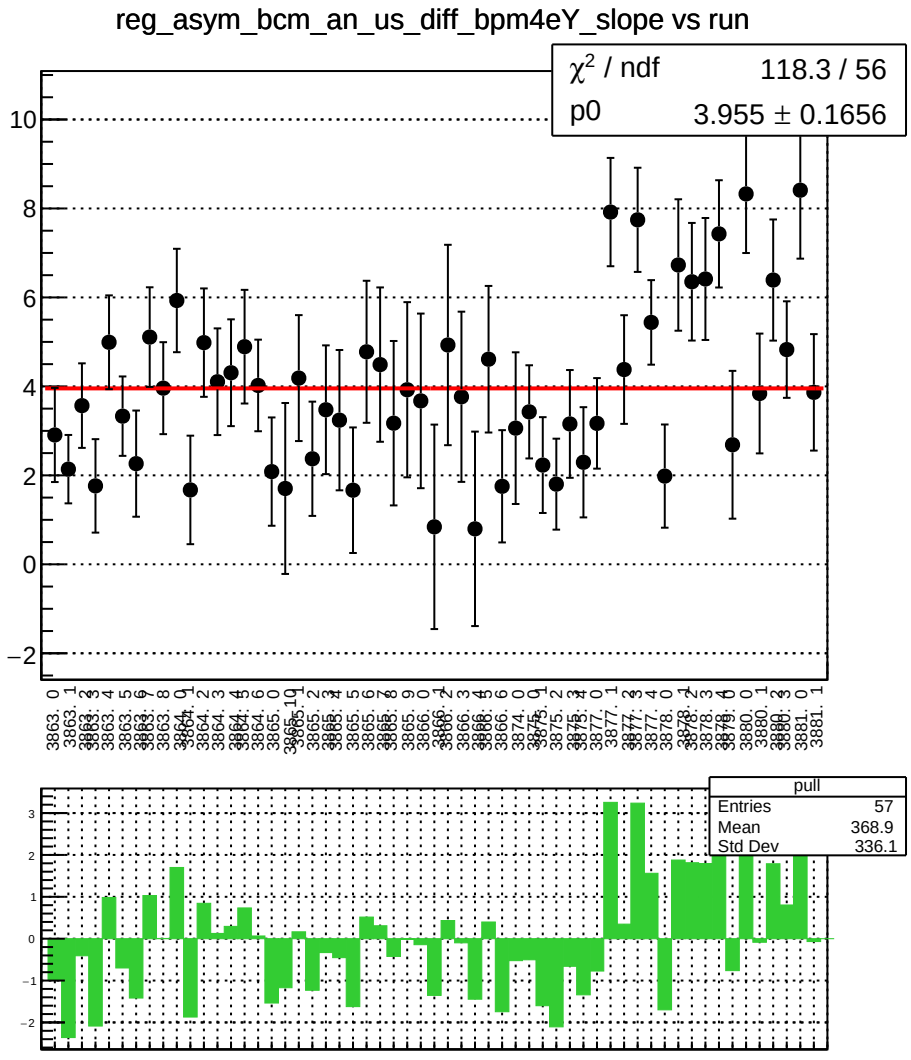

pull1D
Entries 57
Mean 0.07142
Std Dev 1.809

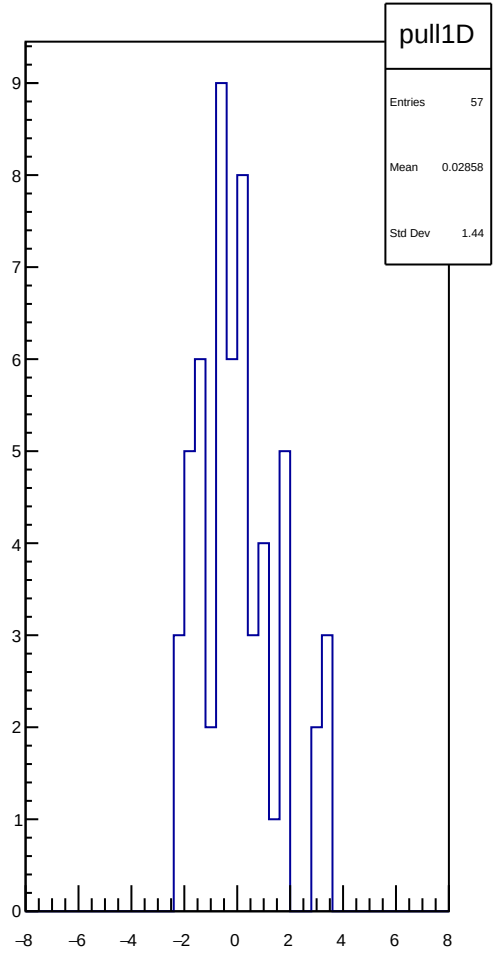

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 101.3 / 56
p0 −2.199 ± 0.09991
pull
Entries 57
Mean 296.3
Std Dev 263.9

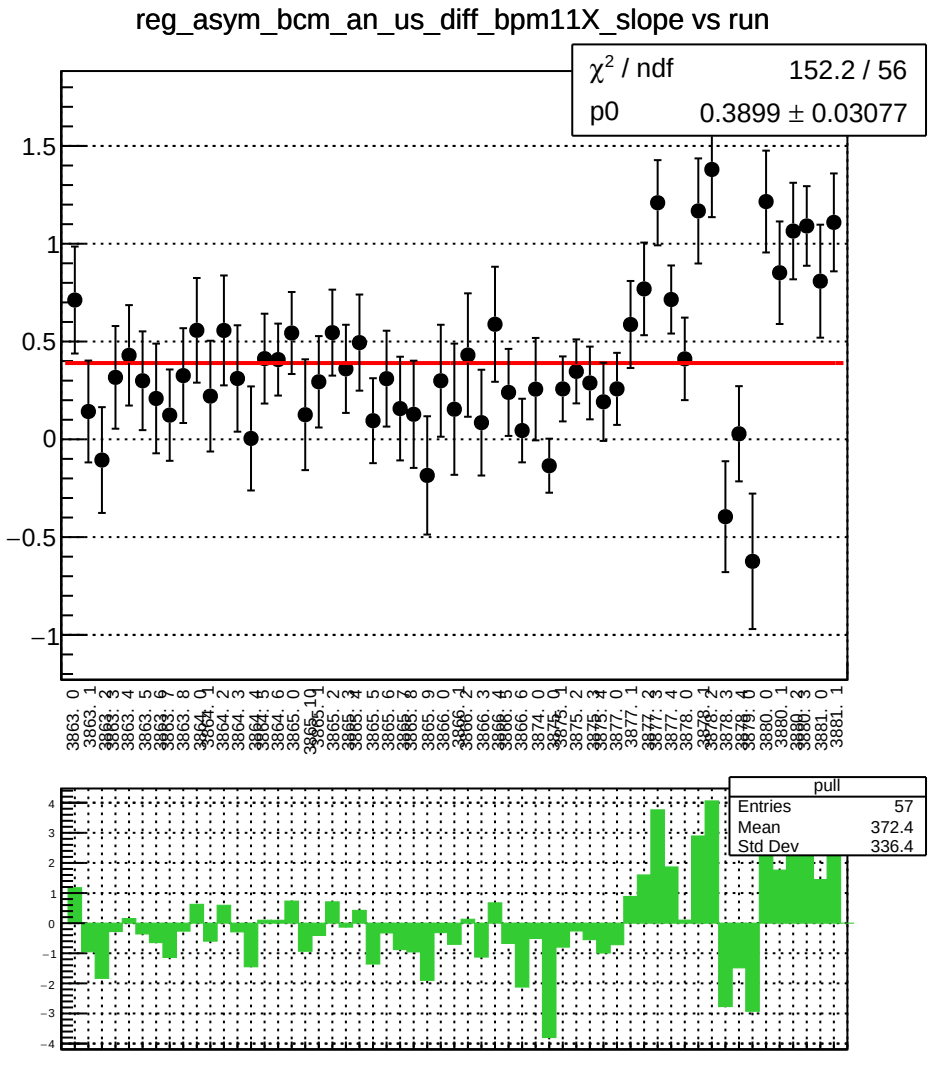

pull1D
Entries 57
Mean −0.02983
Std Dev 1.333

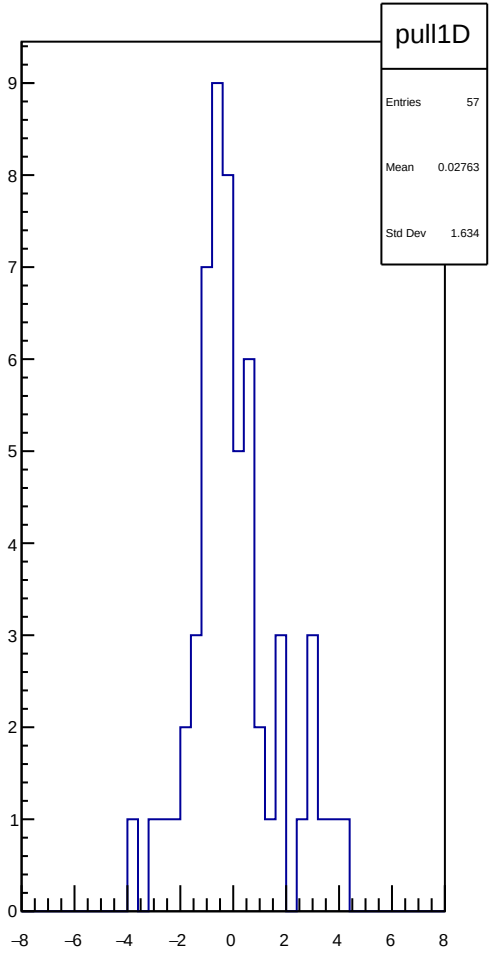

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 379.9 / 56
p0 0.8545 ± 0.02043
pull
Entries 57
Mean −19.41
Std Dev 51.72

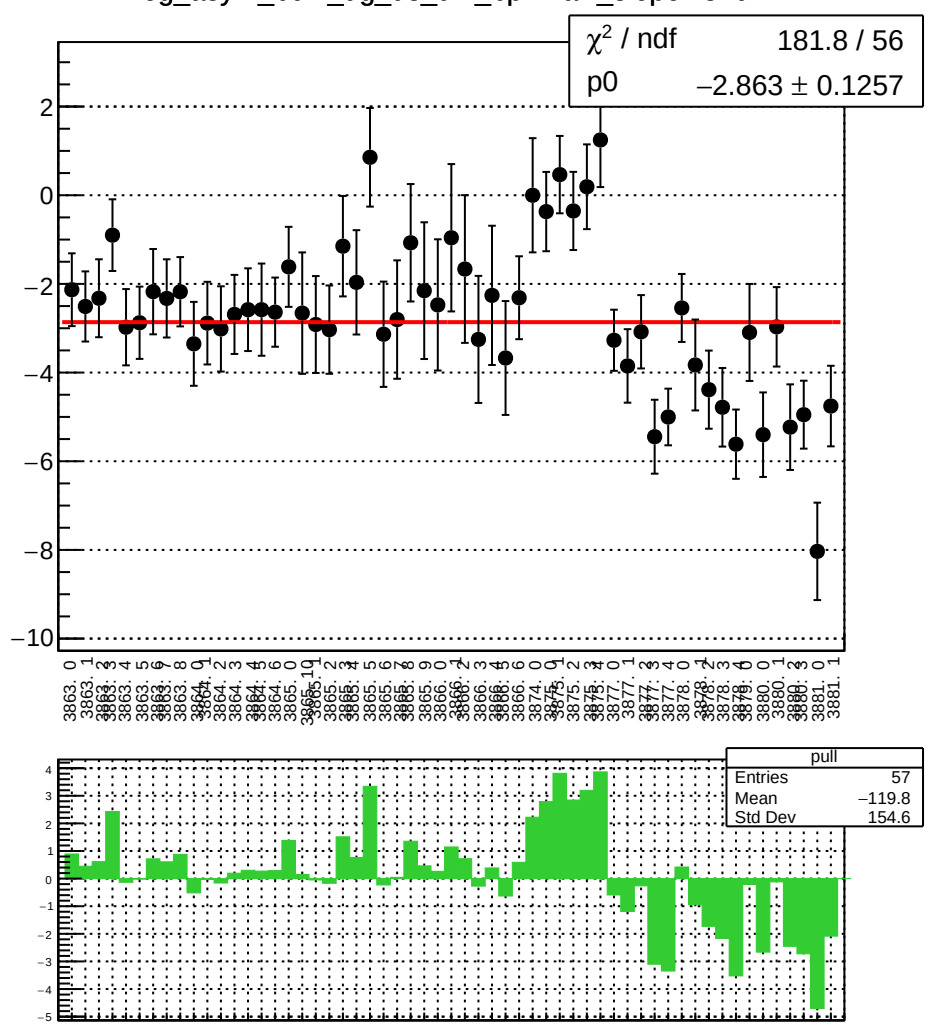

pull1D
Entries 57
Mean −0.4695
Std Dev 2.539

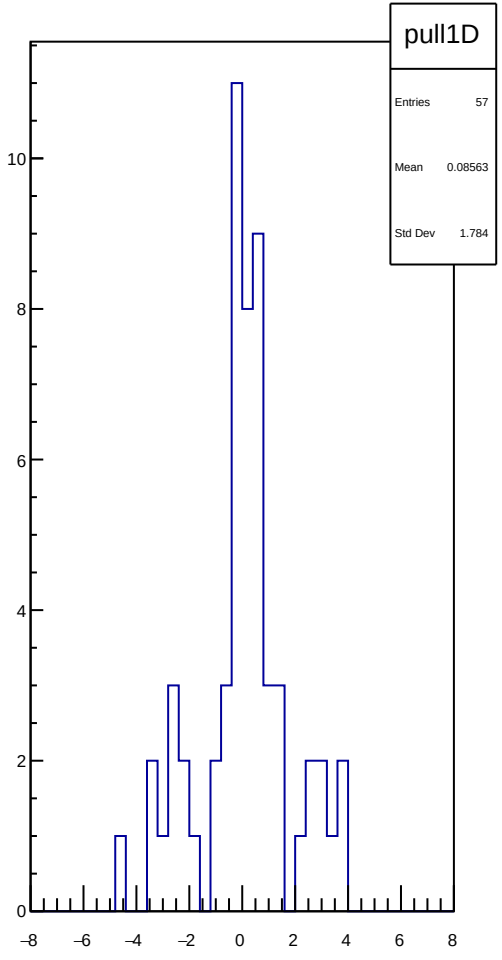

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 118.3 / 56
p0 3.955 ± 0.1656
pull
Entries 57
Mean 368.9
Std Dev 336.1

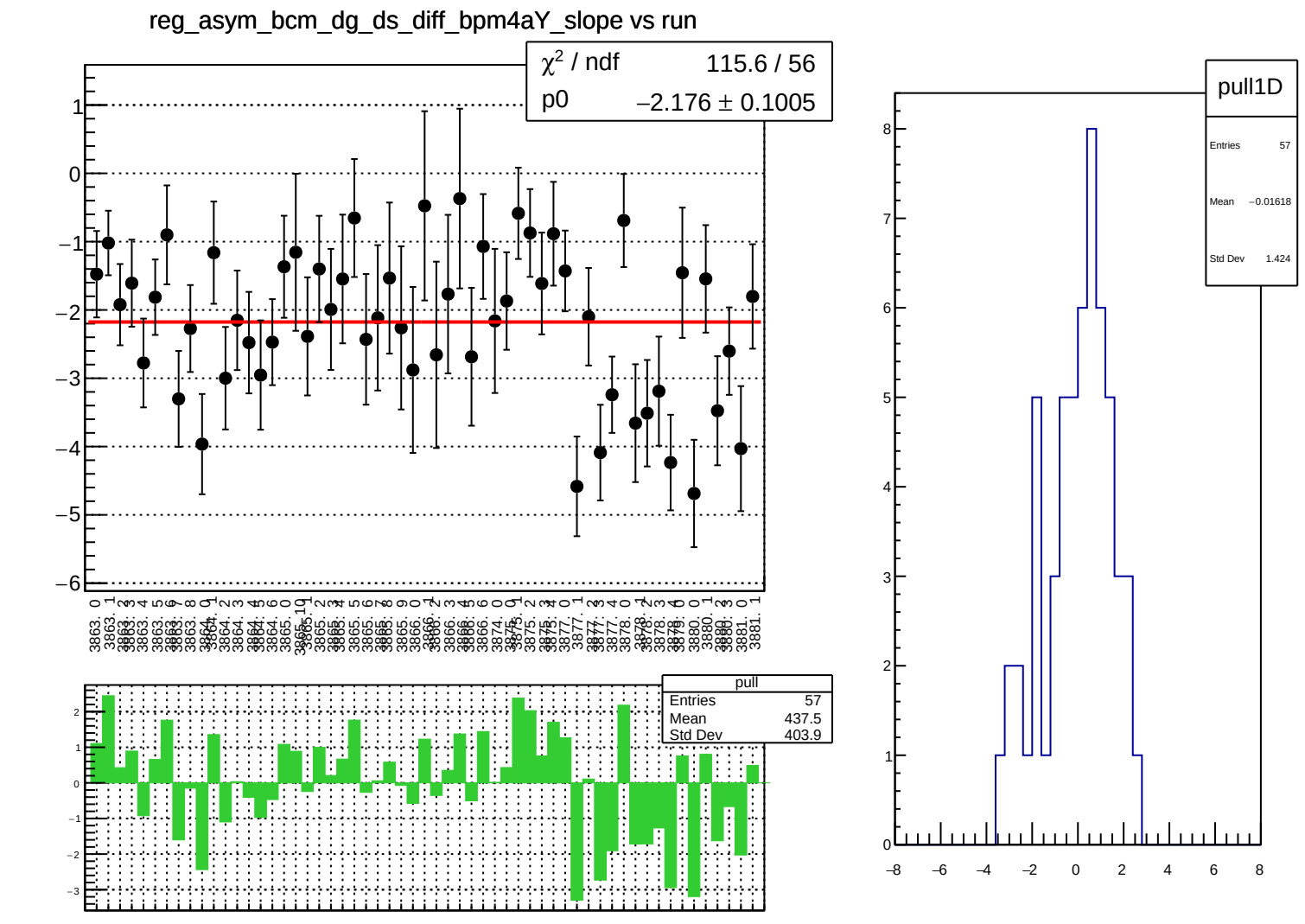

pull1D
Entries 57
Mean 0.02858
Std Dev 1.44

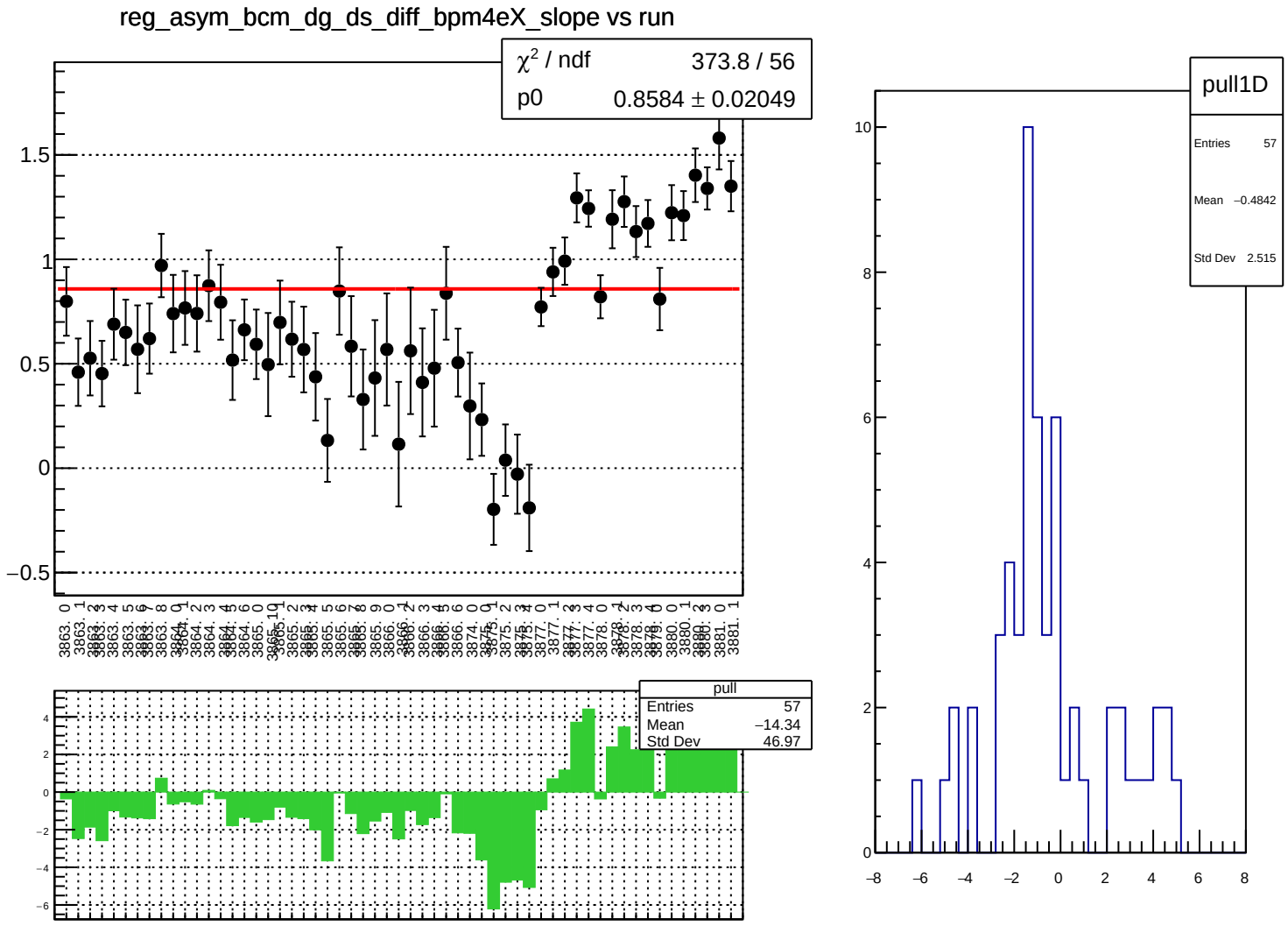

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 152.2 / 56
p0 0.3899 ± 0.03077
pull
Entries 57
Mean 372.4
Std Dev 336.4

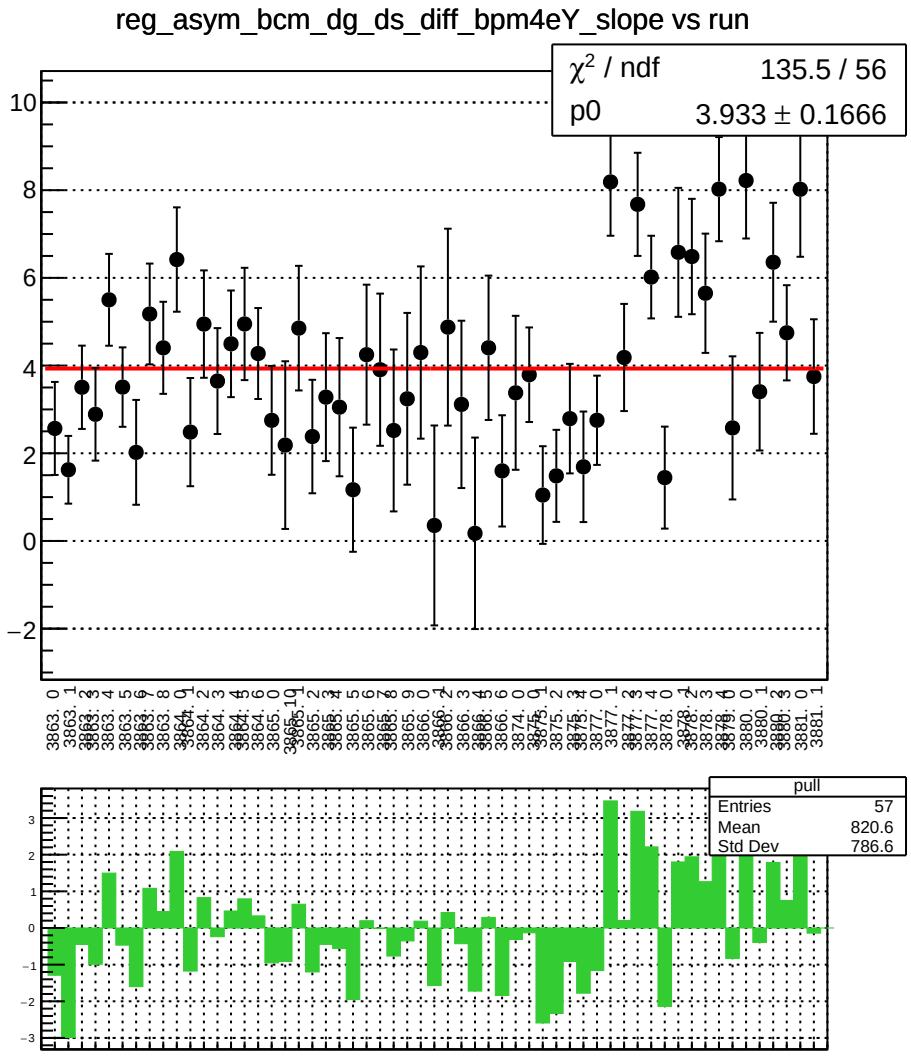

pull1D
Entries 57
Mean 0.02763
Std Dev 1.634

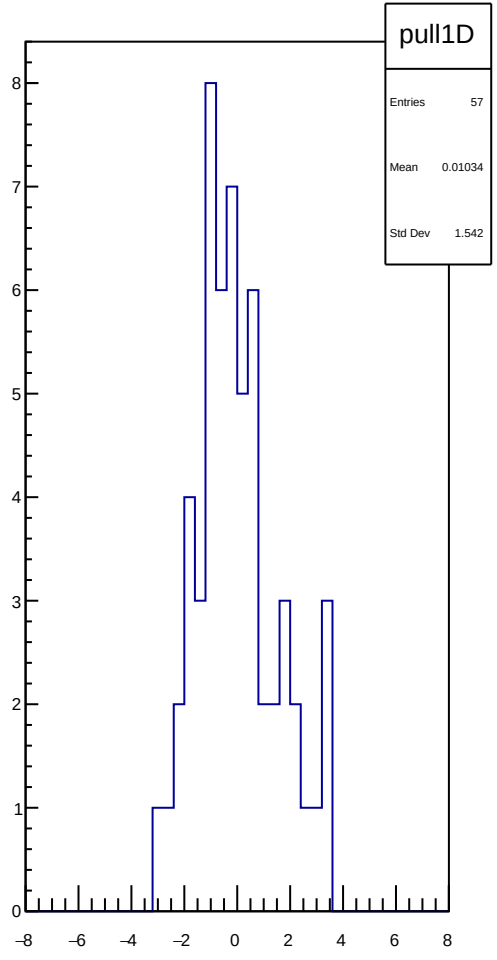

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 181.8 / 56
p0 −2.863 ± 0.1257
pull
Entries 57
Mean −119.8
Std Dev 154.6

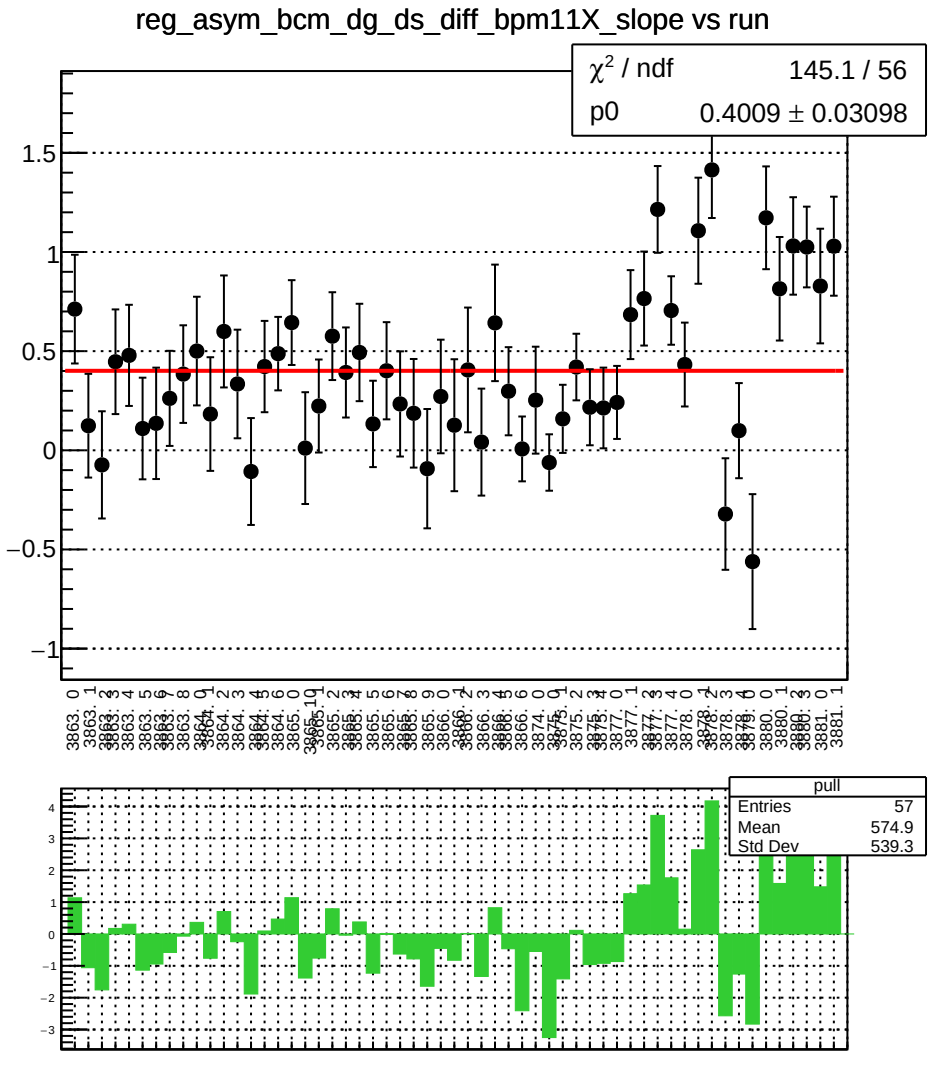

pull1D
Entries 57
Mean 0.08563
Std Dev 1.784

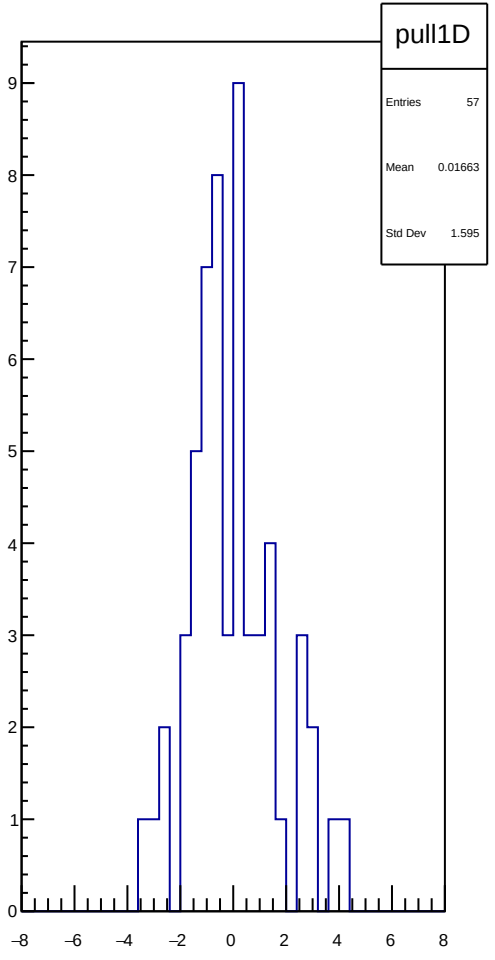

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 115.6 / 56
p0 −2.176 ± 0.1005
pull
Entries 57
Mean 437.5
Std Dev 403.9
pull1D
Entries 57
Mean −0.01618
Std Dev 1.424

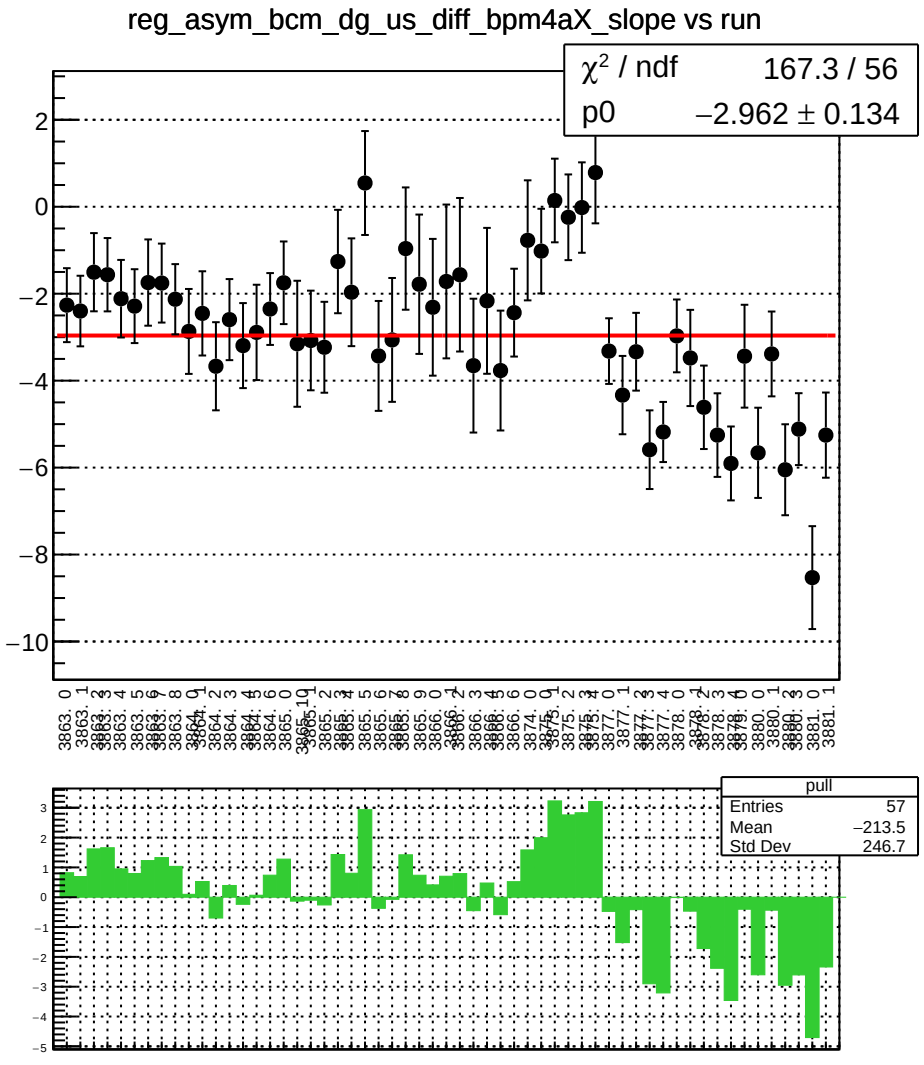

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 373.8 / 56
p0 0.8584 ± 0.02049
pull
Entries 57
Mean −14.34
Std Dev 46.97
pull1D
Entries 57
Mean −0.4842
Std Dev 2.515

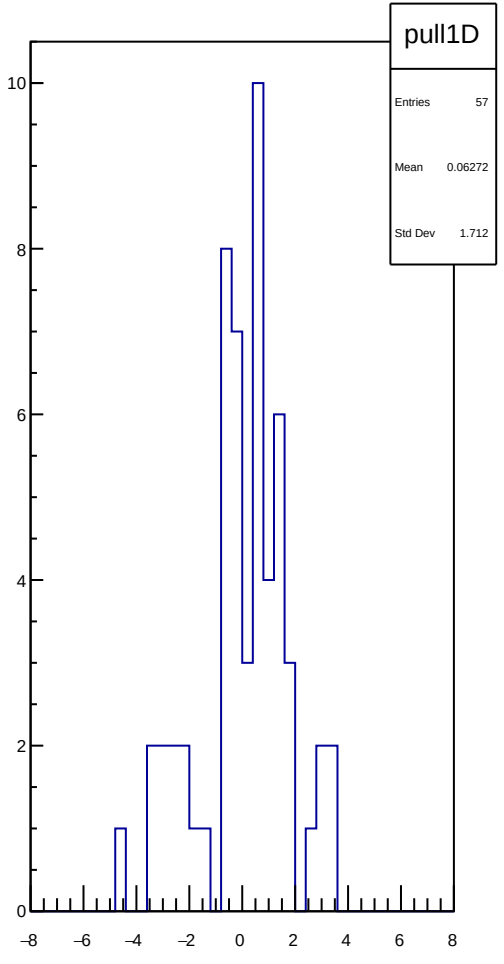

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 135.5 / 56
p0 3.933 ± 0.1666
pull
Entries 57
Mean 820.6
Std Dev 786.6

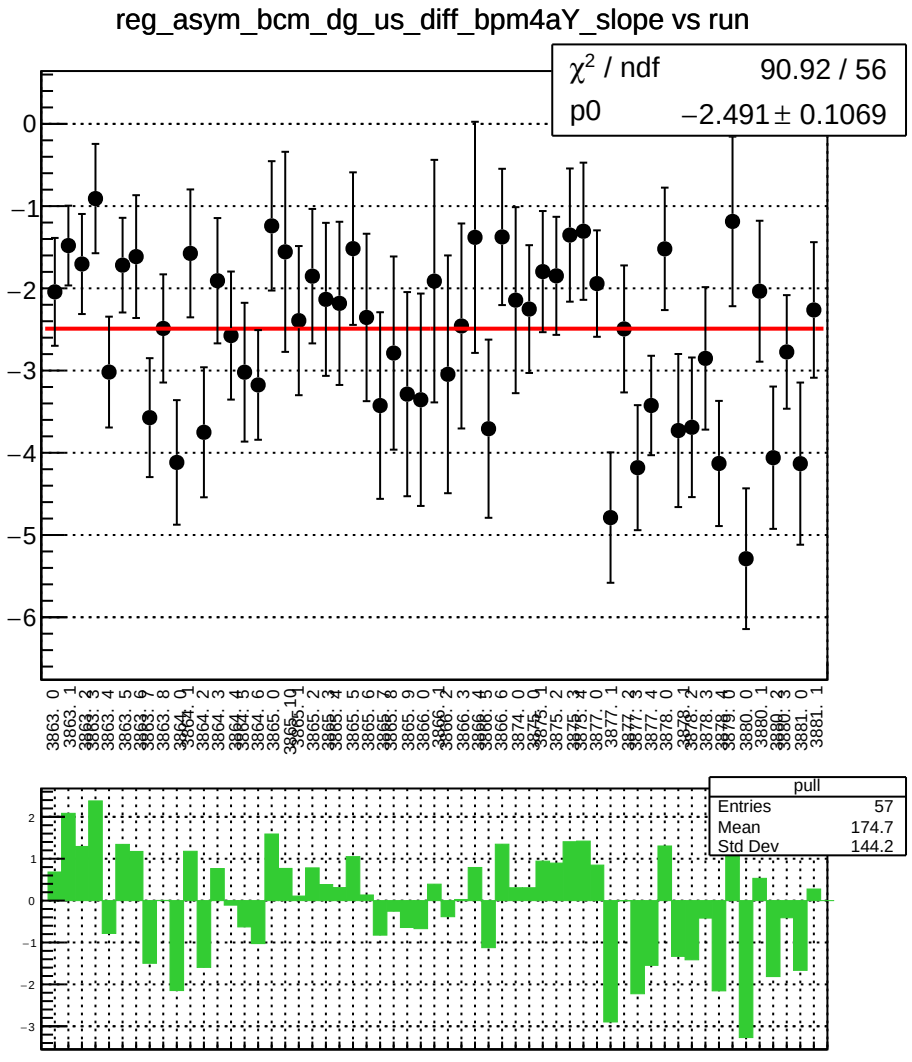

pull1D
Entries 57
Mean 0.01034
Std Dev 1.542

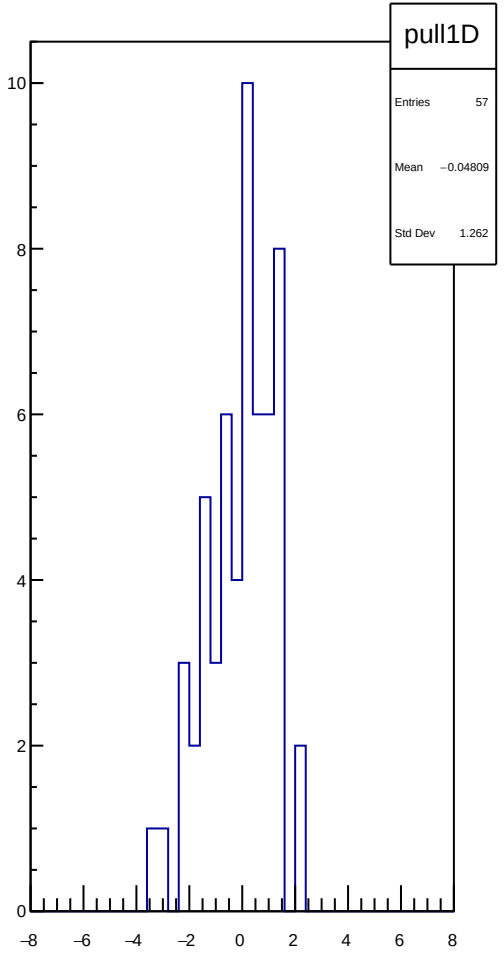

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 145.1 / 56
p0 0.4009 ± 0.03098
pull
Entries 57
Mean 574.9
Std Dev 539.3

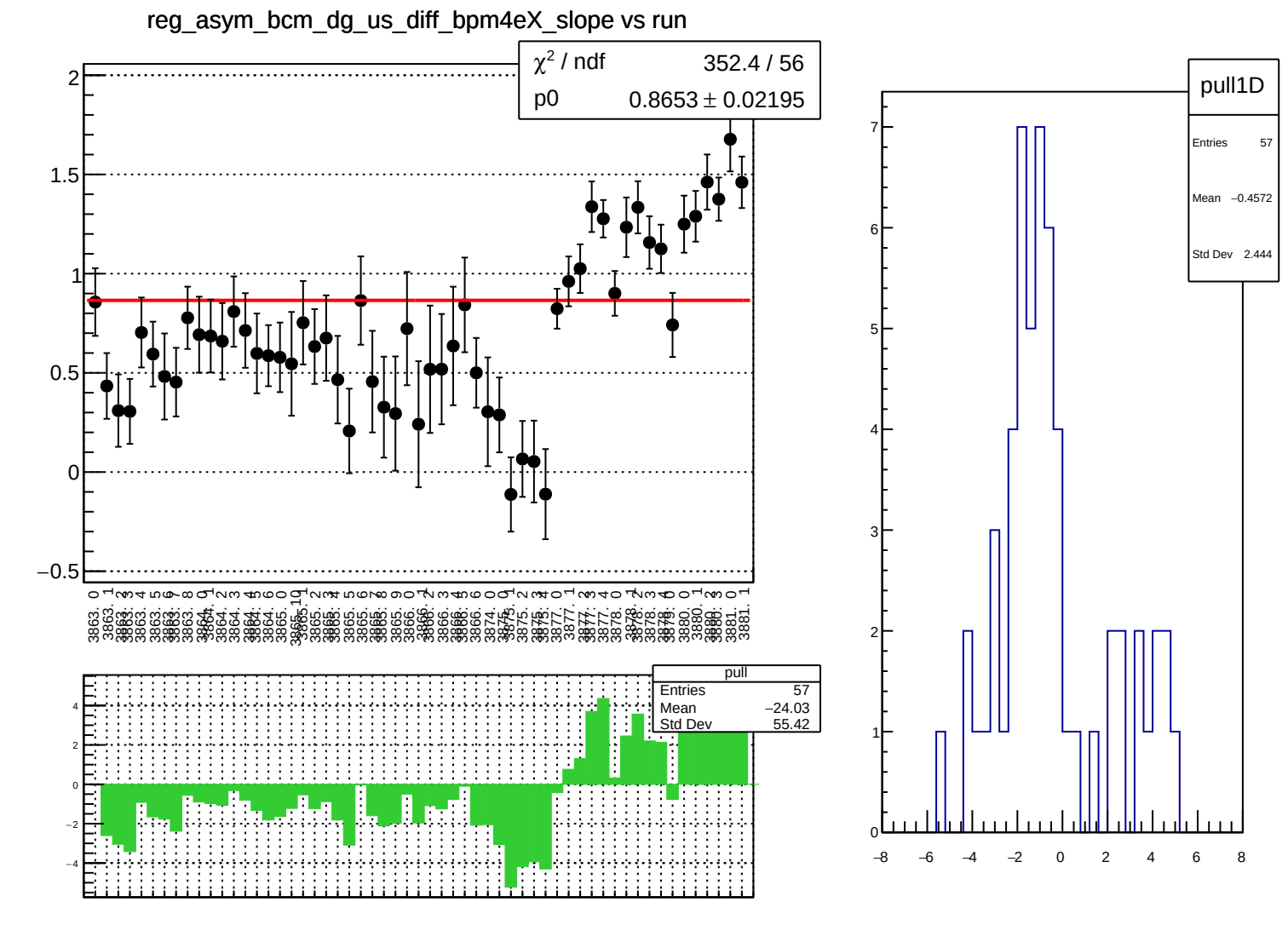

pull1D
Entries 57
Mean 0.01663
Std Dev 1.595

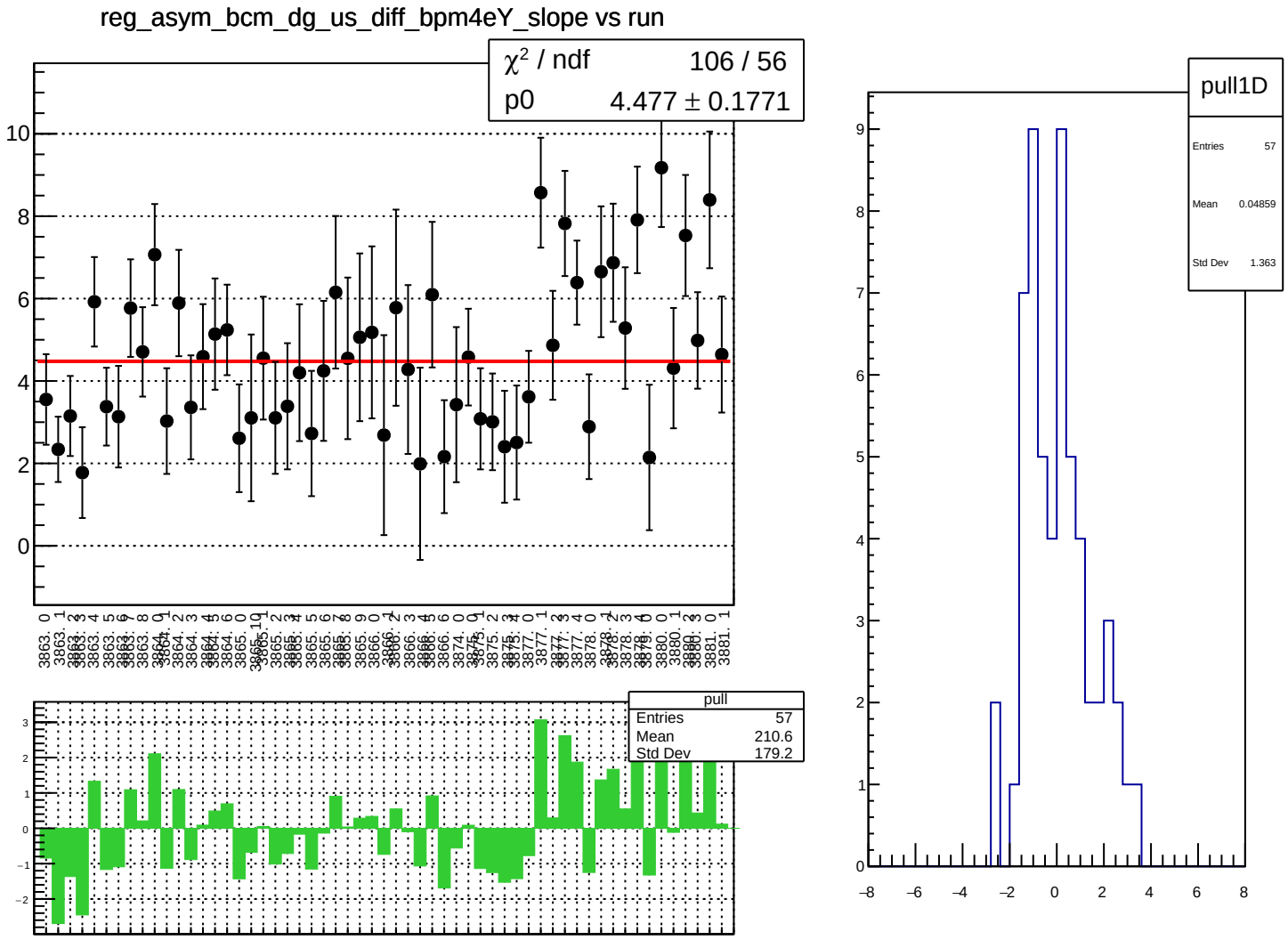

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 167.3 / 56
p0 −2.962 ± 0.134
pull
Entries 57
Mean −213.5
Std Dev 246.7

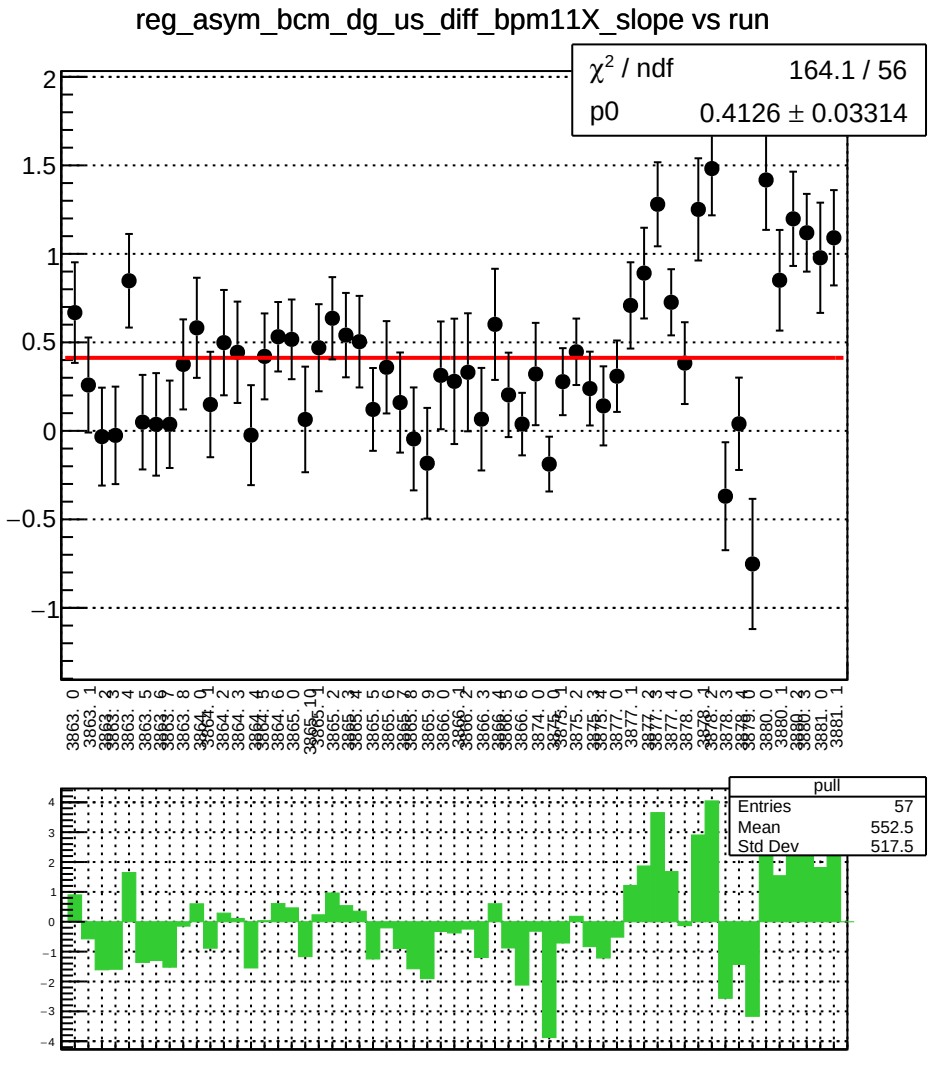

pull1D
Entries 57
Mean 0.06272
Std Dev 1.712

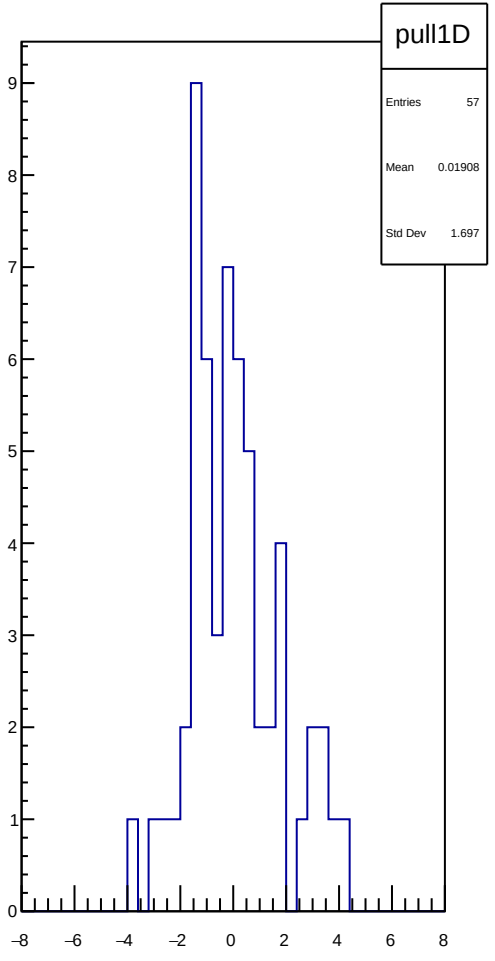

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 90.92 / 56
p0 −2.491 ± 0.1069
pull
Entries 57
Mean 174.7
Std Dev 144.2

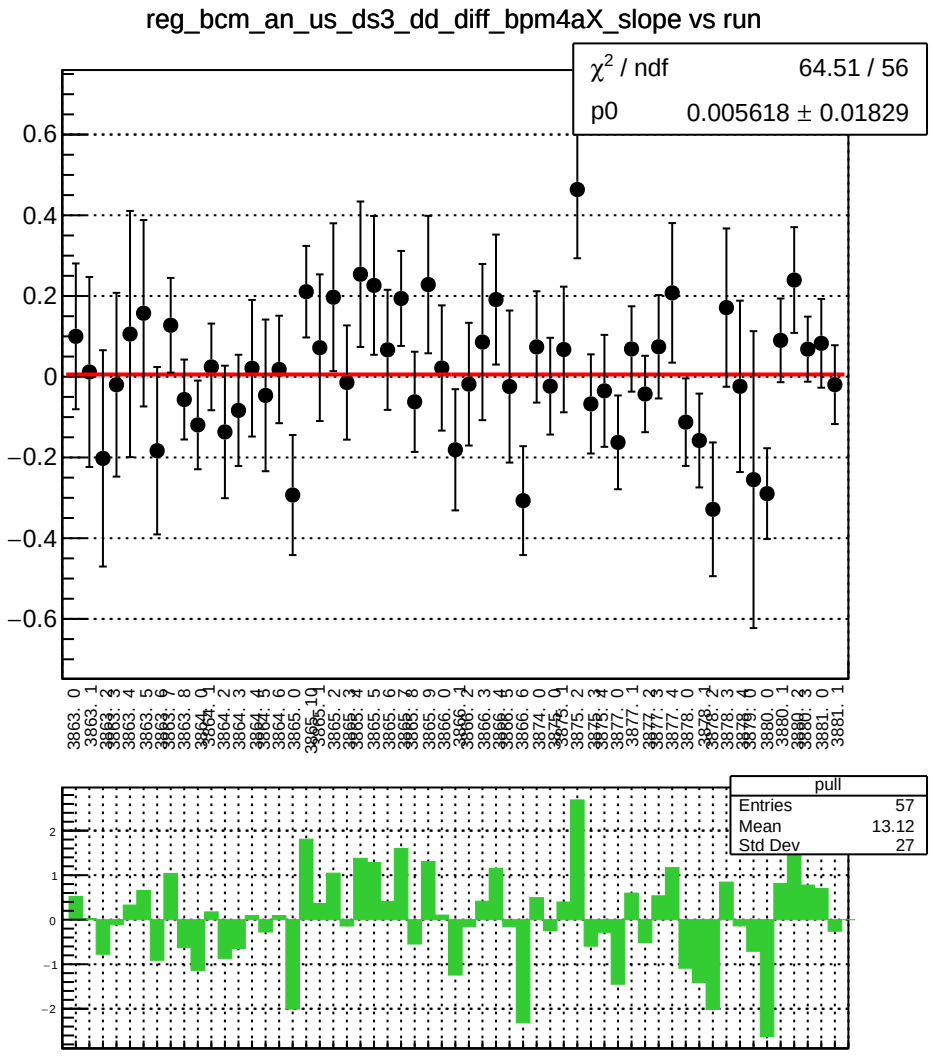

pull1D
Entries 57
Mean −0.04809
Std Dev 1.262

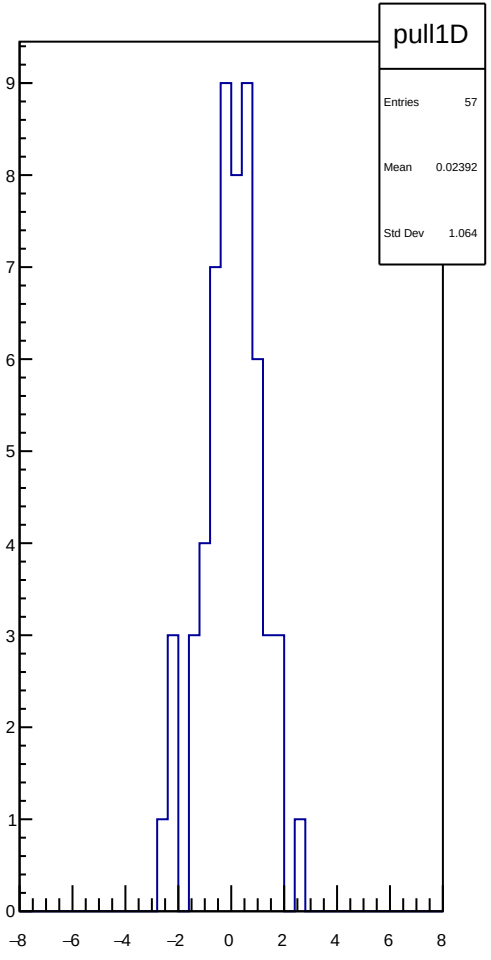

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 352.4 / 56
p0 0.8653 ± 0.02195
pull
Entries 57
Mean −24.03
Std Dev 55.42
pull1D
Entries 57
Mean −0.4572
Std Dev 2.444

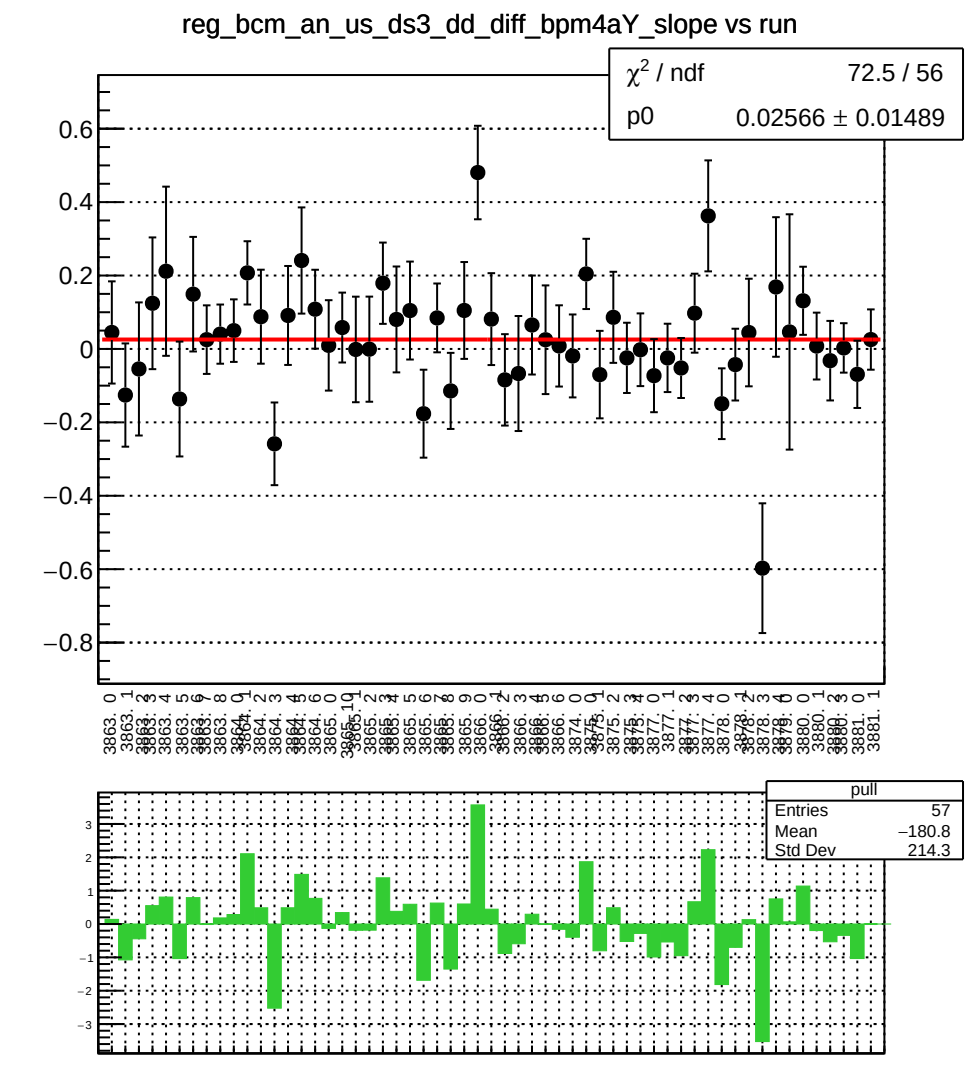

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 106 / 56
p0 4.477 ± 0.1771
pull
Entries 57
Mean 210.6
Std Dev 179.2
pull1D
Entries 57
Mean 0.04859
Std Dev 1.363

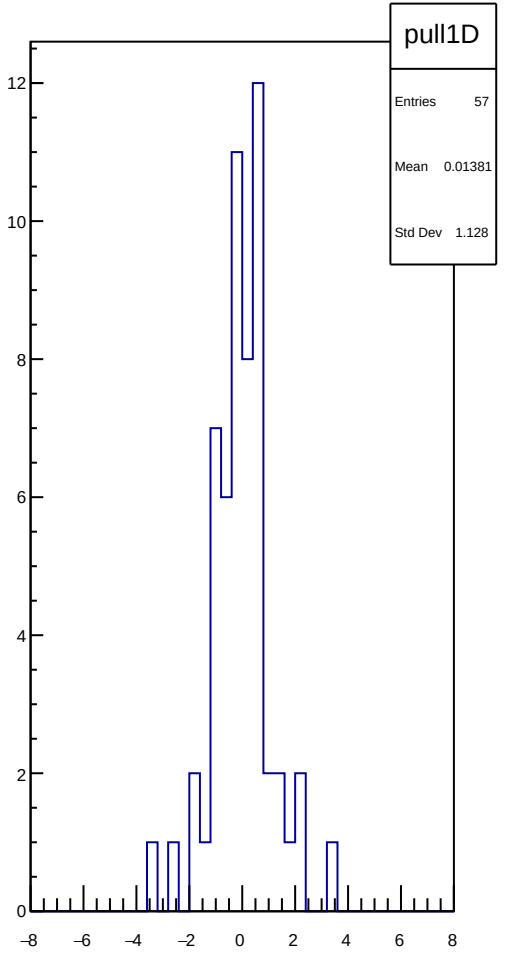

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 164.1 / 56
p0 0.4126 ± 0.03314
pull
Entries 57
Mean 552.5
Std Dev 517.5

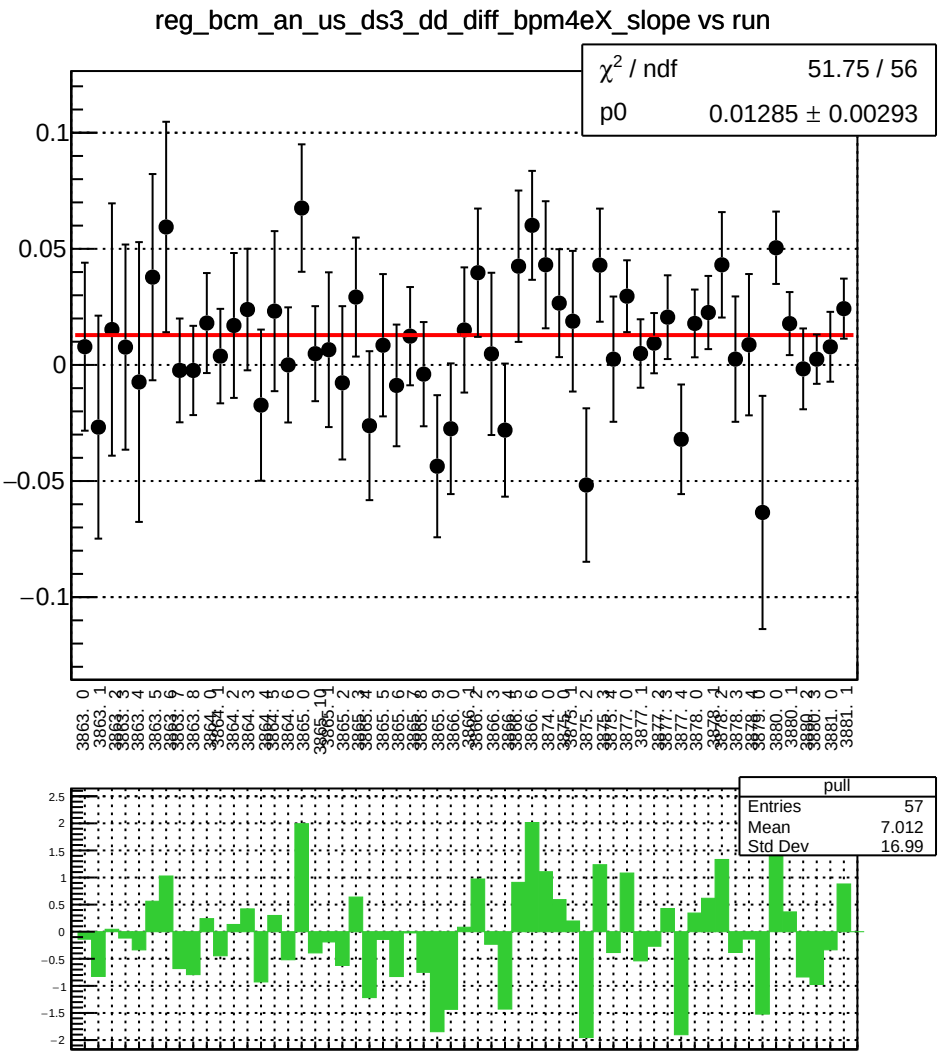

pull1D
Entries 57
Mean 0.01908
Std Dev 1.697

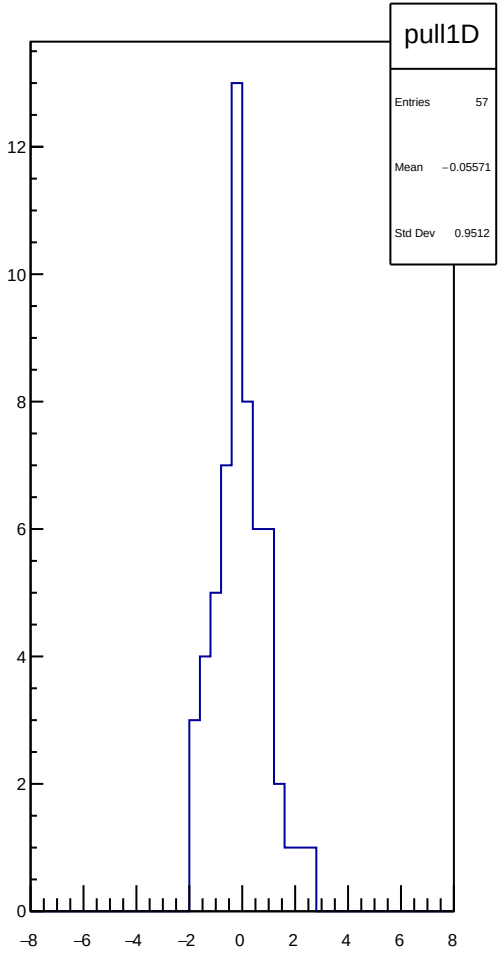

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 64.51 / 56
p0 0.005618 ± 0.01829
pull
Entries 57
Mean 13.12
Std Dev 27

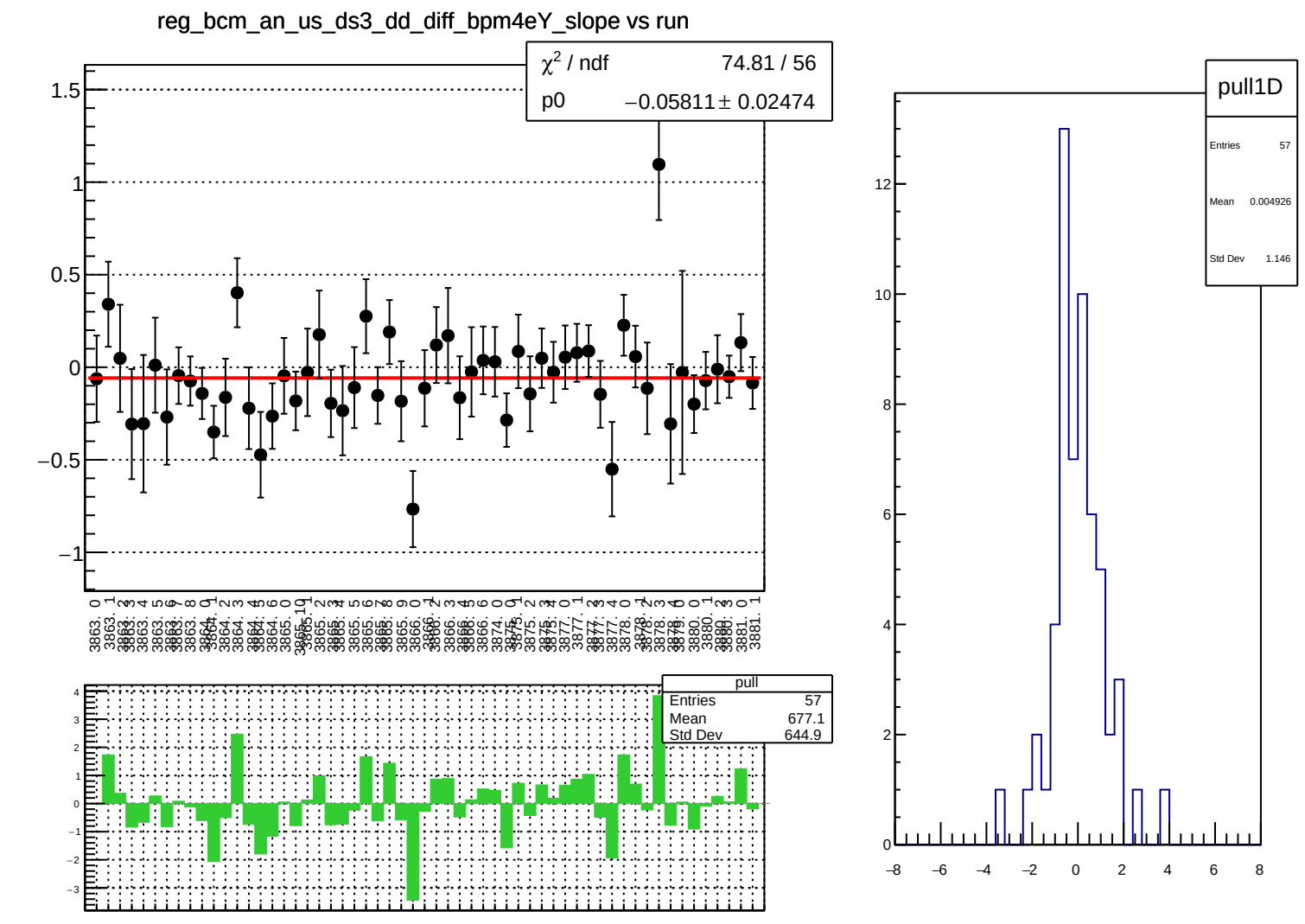

pull1D
Entries 57
Mean 0.02392
Std Dev 1.064

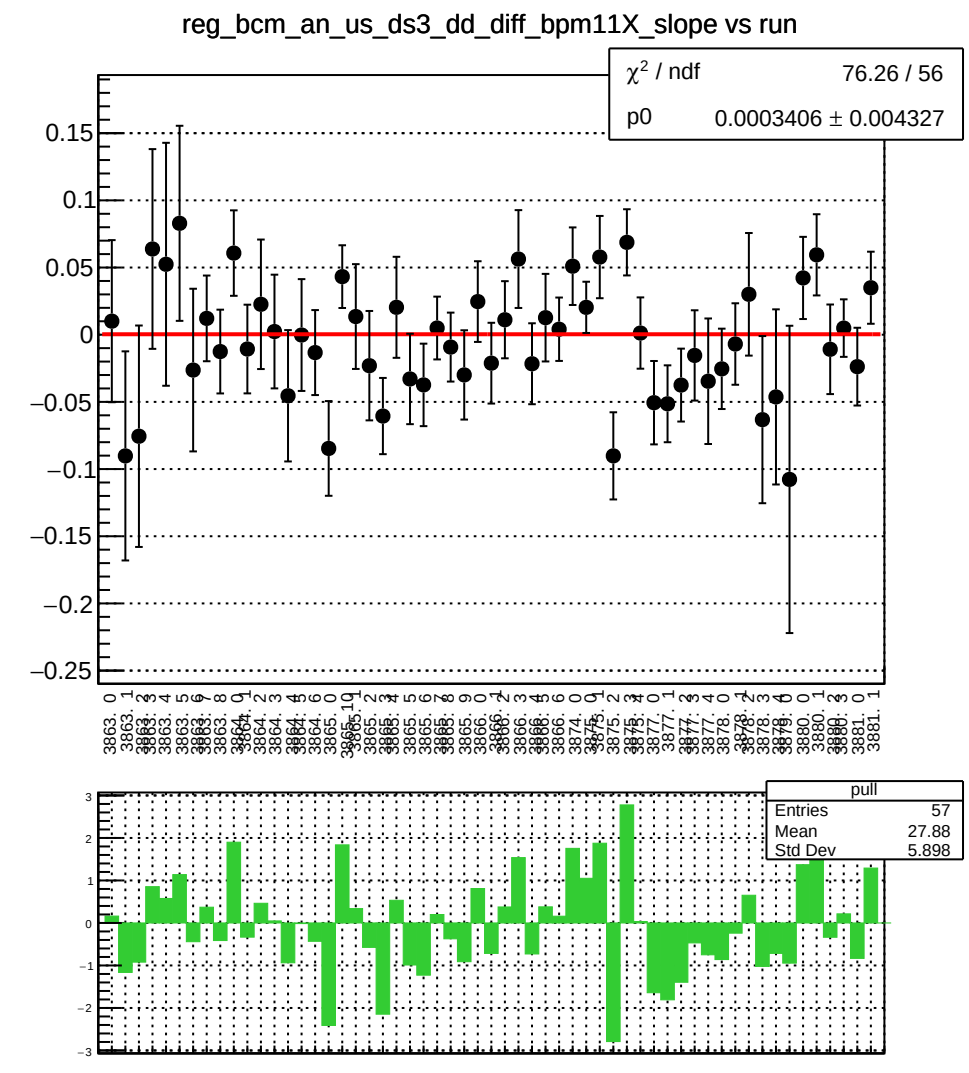

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.5 / 56
p0 0.02566 ± 0.01489
pull
Entries 57
Mean −180.8
Std Dev 214.3

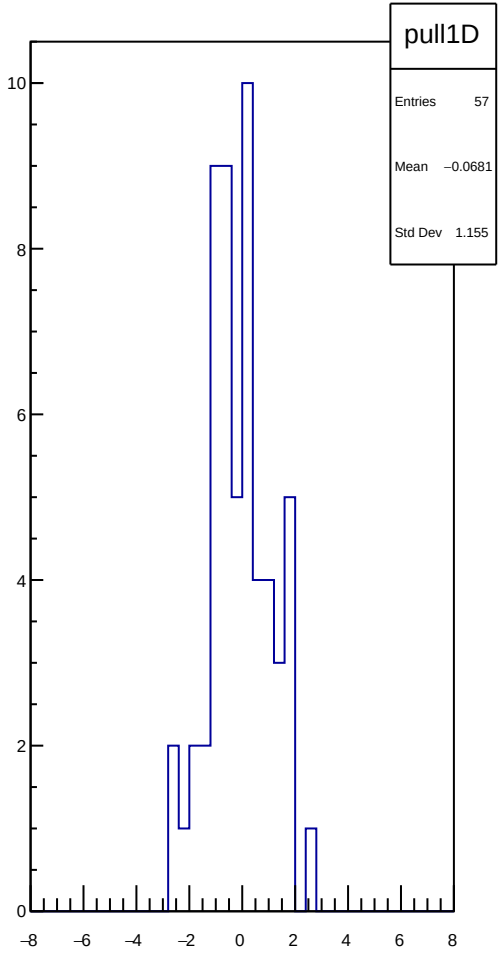

pull1D
Entries 57
Mean 0.01381
Std Dev 1.128

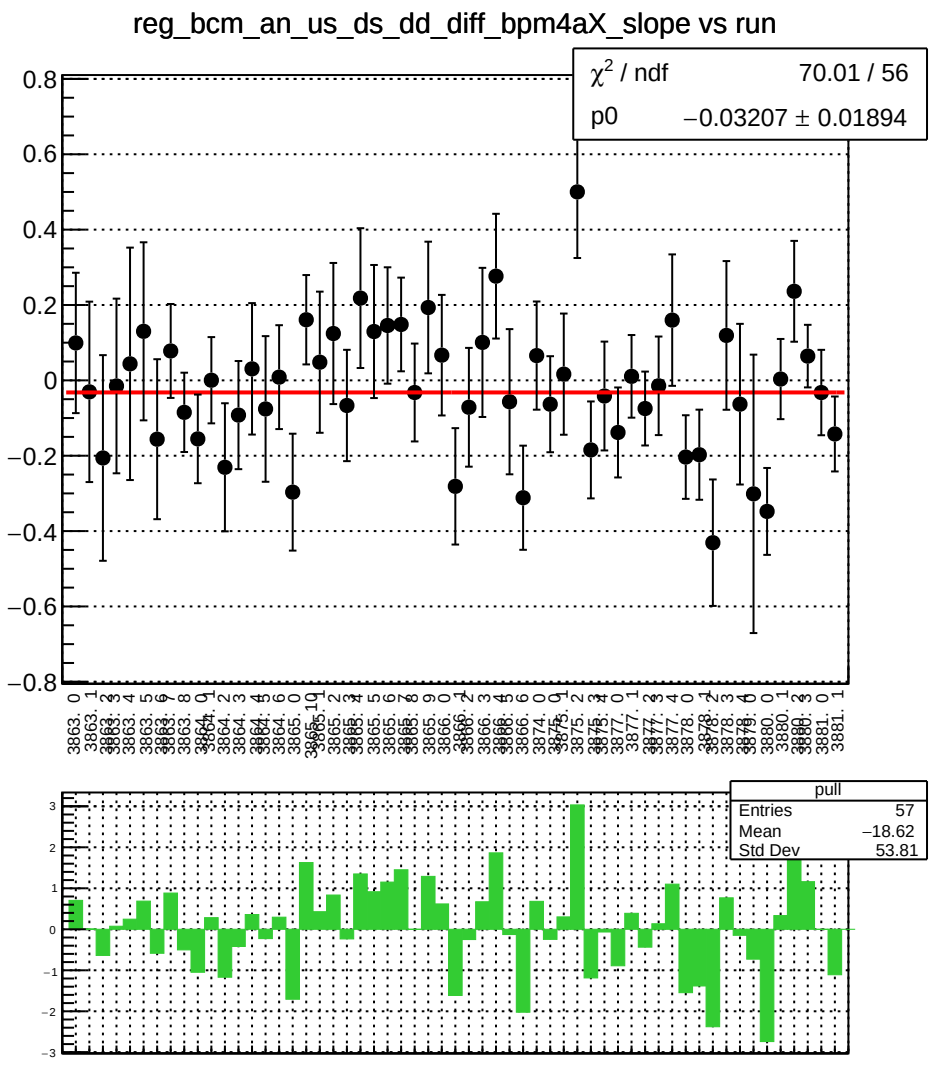

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.75 / 56
p0 0.01285 ± 0.00293
pull
Entries 57
Mean 7.012
Std Dev 16.99

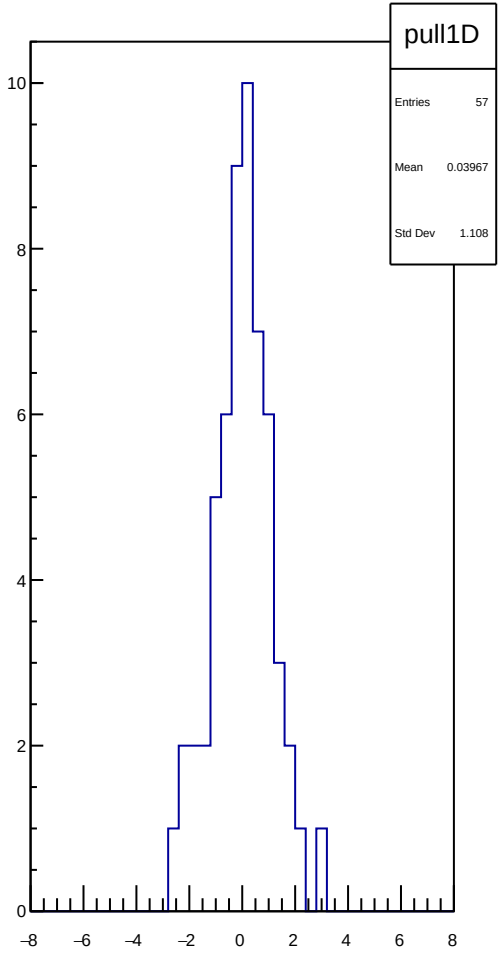

pull1D
Entries 57
Mean −0.05571
Std Dev 0.9512

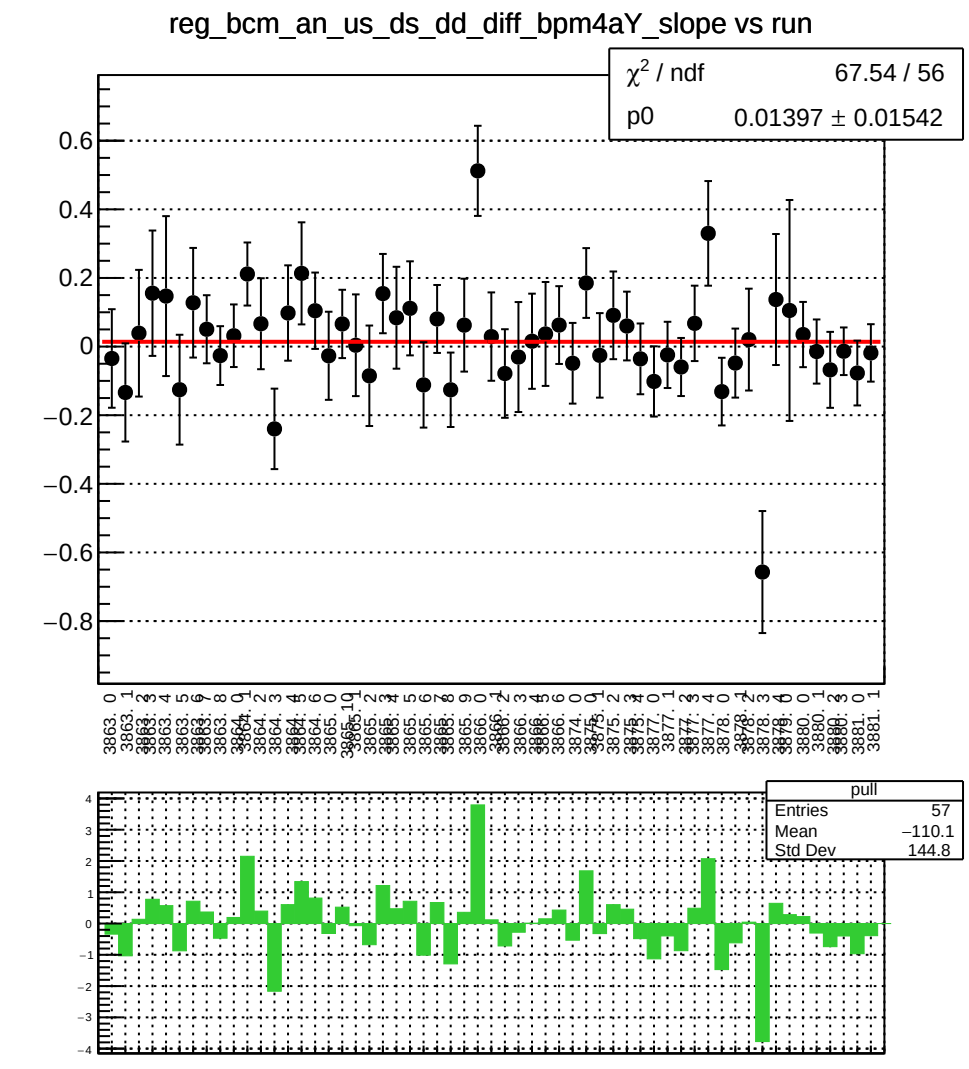

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.81 / 56
p0 −0.05811 ± 0.02474
pull
Entries 57
Mean 677.1
Std Dev 644.9
pull1D
Entries 57
Mean 0.004926
Std Dev 1.146

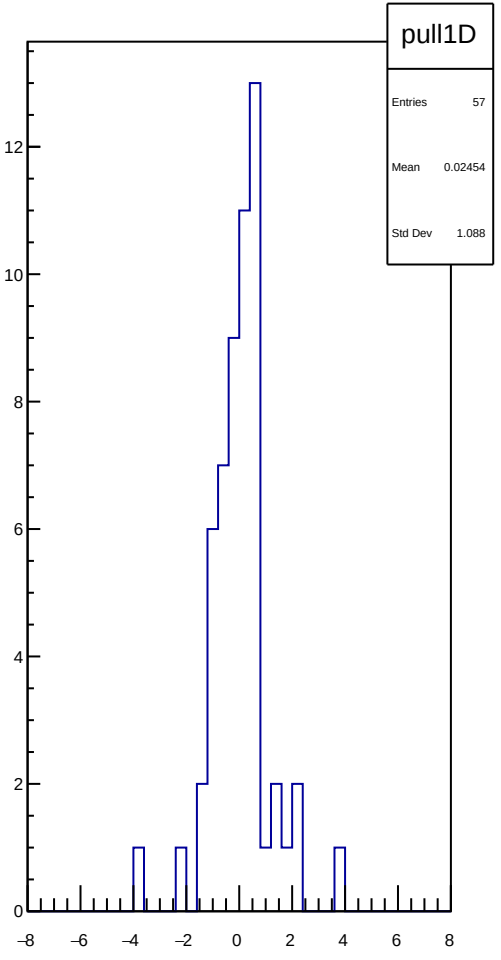

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 76.26 / 56
p0 0.0003406 ± 0.004327
pull
Entries 57
Mean 27.88
Std Dev 5.898

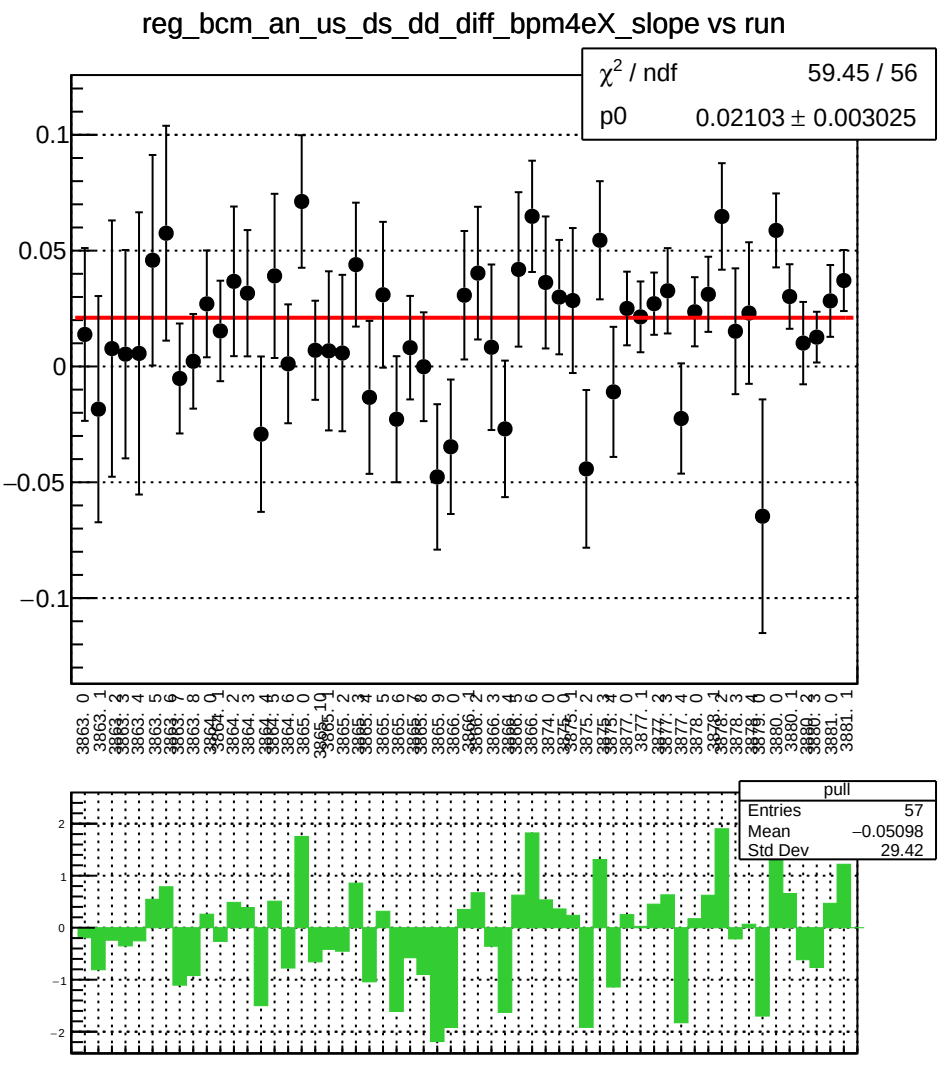

pull1D
Entries 57
Mean −0.0681
Std Dev 1.155

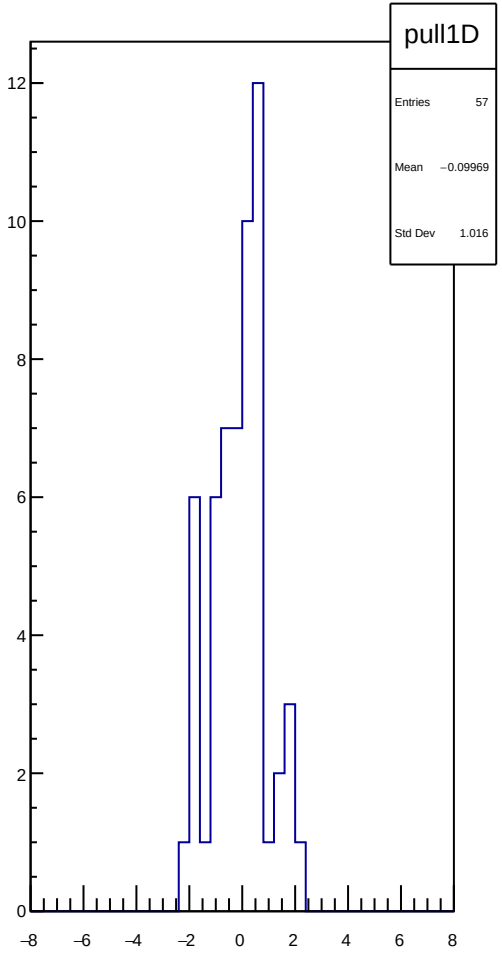

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 70.01 / 56
p0 −0.03207 ± 0.01894
pull
Entries 57
Mean −18.62
Std Dev 53.81

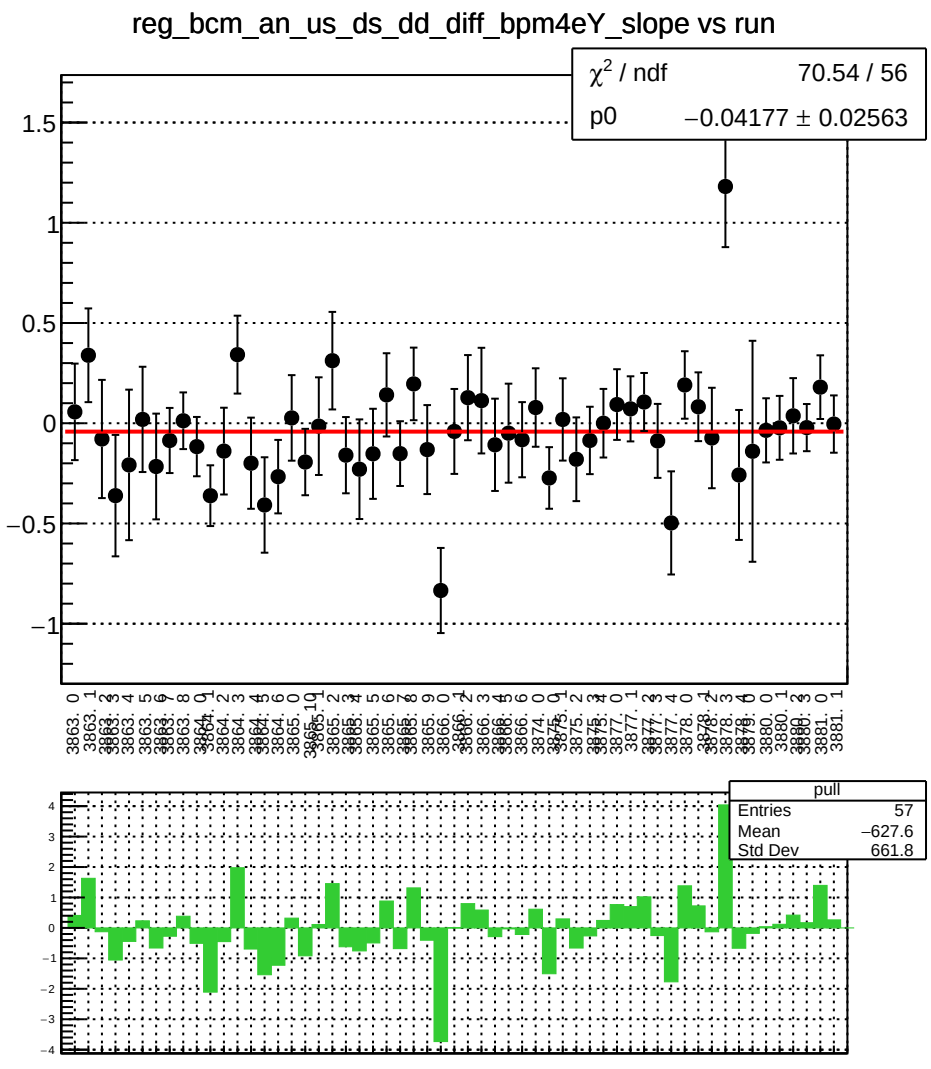

pull1D
Entries 57
Mean 0.03967
Std Dev 1.108

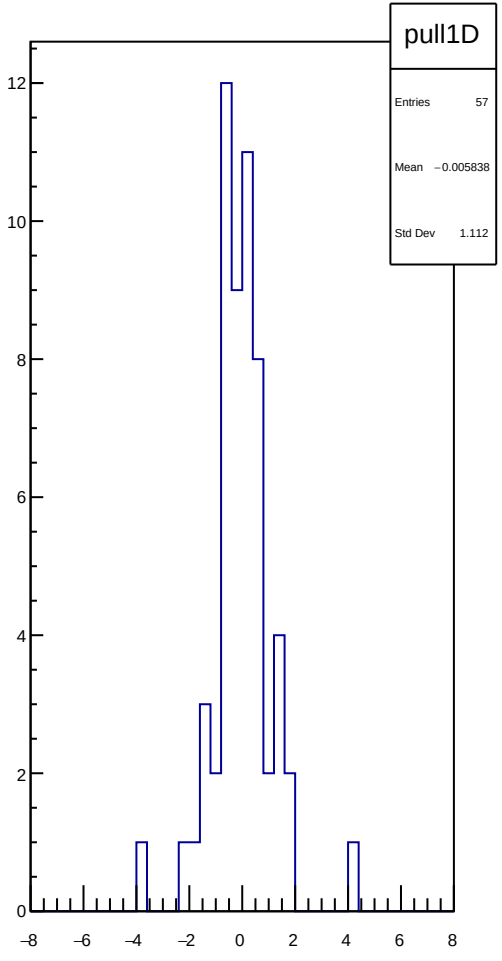

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.54 / 56
p0 0.01397 ± 0.01542
pull
Entries 57
Mean −110.1
Std Dev 144.8

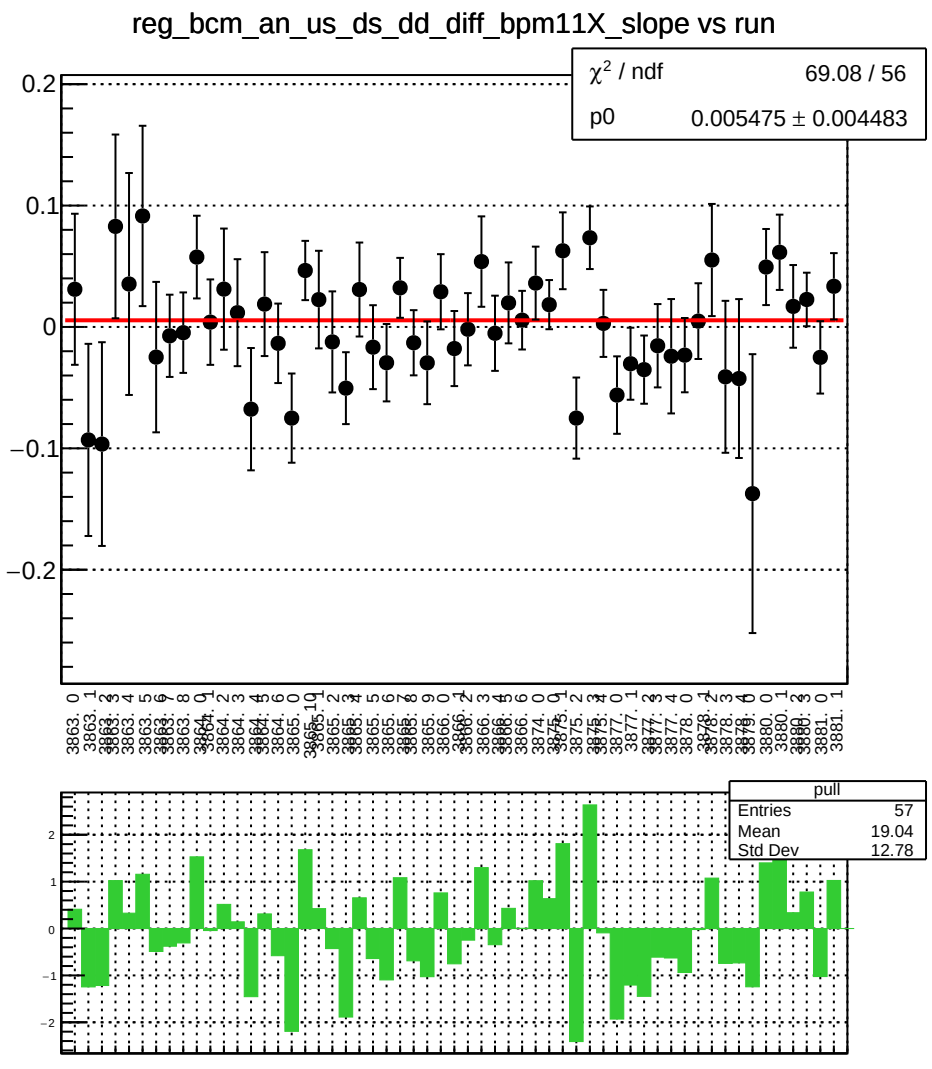

pull1D
Entries 57
Mean 0.02454
Std Dev 1.088

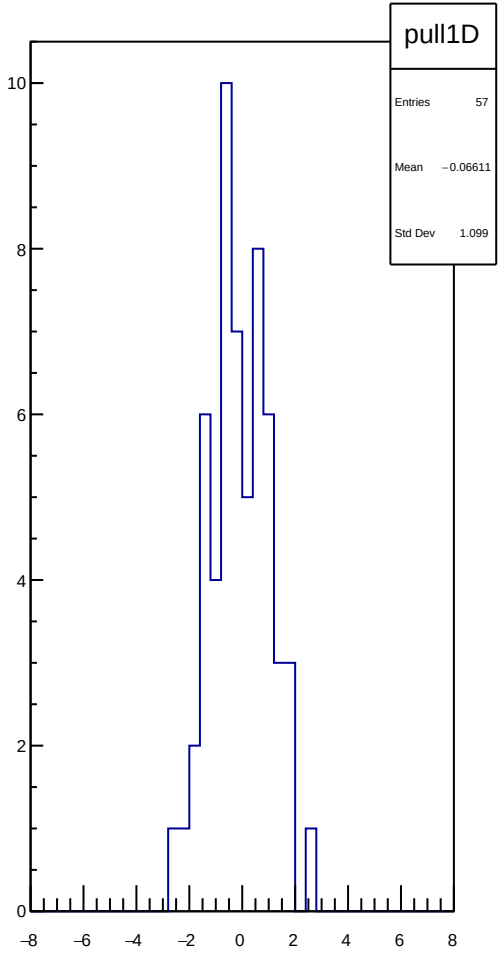

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 59.45 / 56
p0 0.02103 ± 0.003025
0.1
0.05
0
−0.05
−0.1
pull
Entries 57
Mean −0.05098
Std Dev 29.42
2
1
0
−1
−2

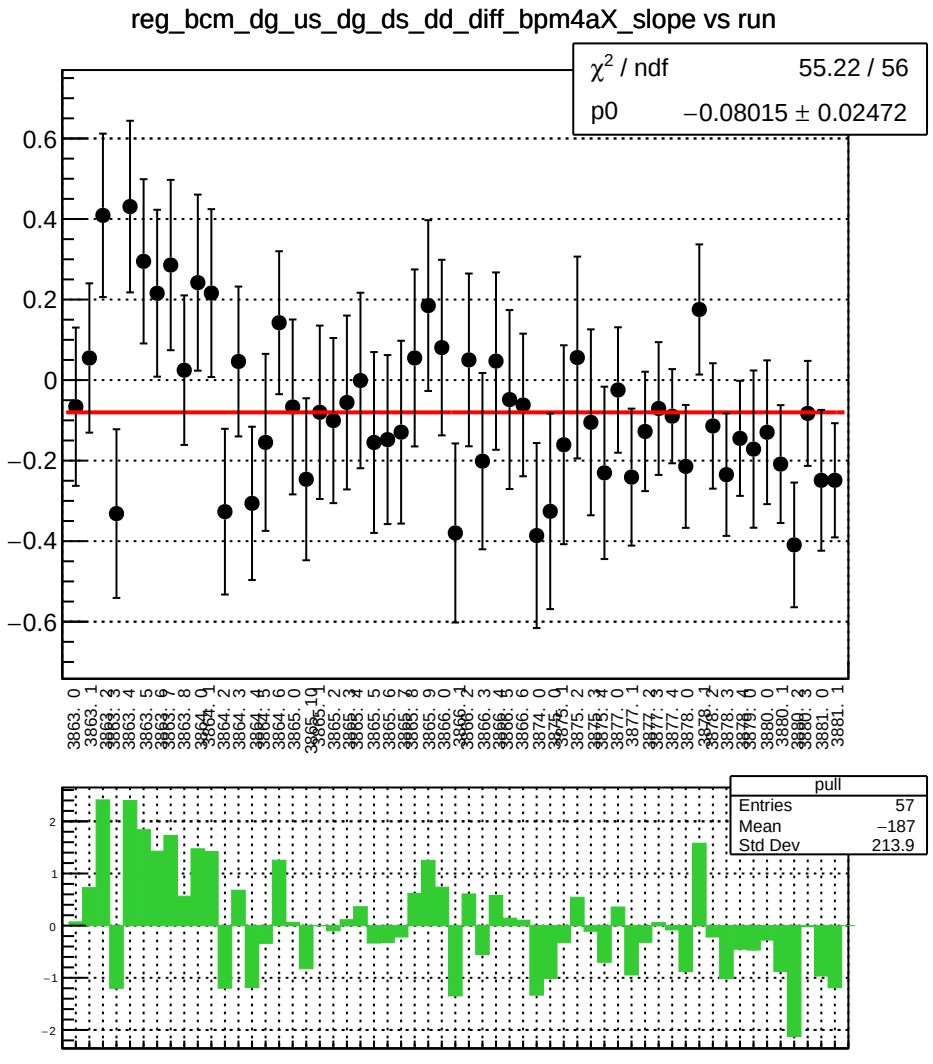

pull1D
Entries 57
Mean −0.09969
Std Dev 1.016
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

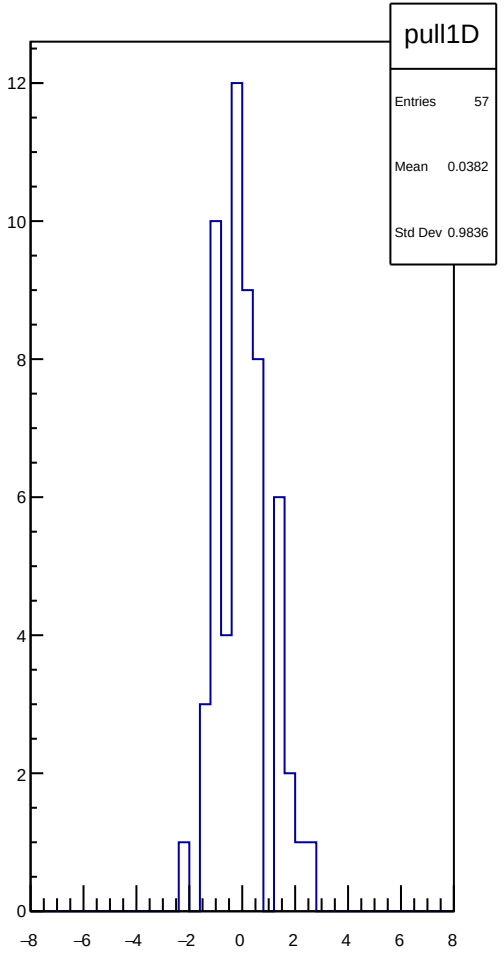

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 70.54 / 56
p0 −0.04177 ± 0.02563
pull
Entries 57
Mean −627.6
Std Dev 661.8

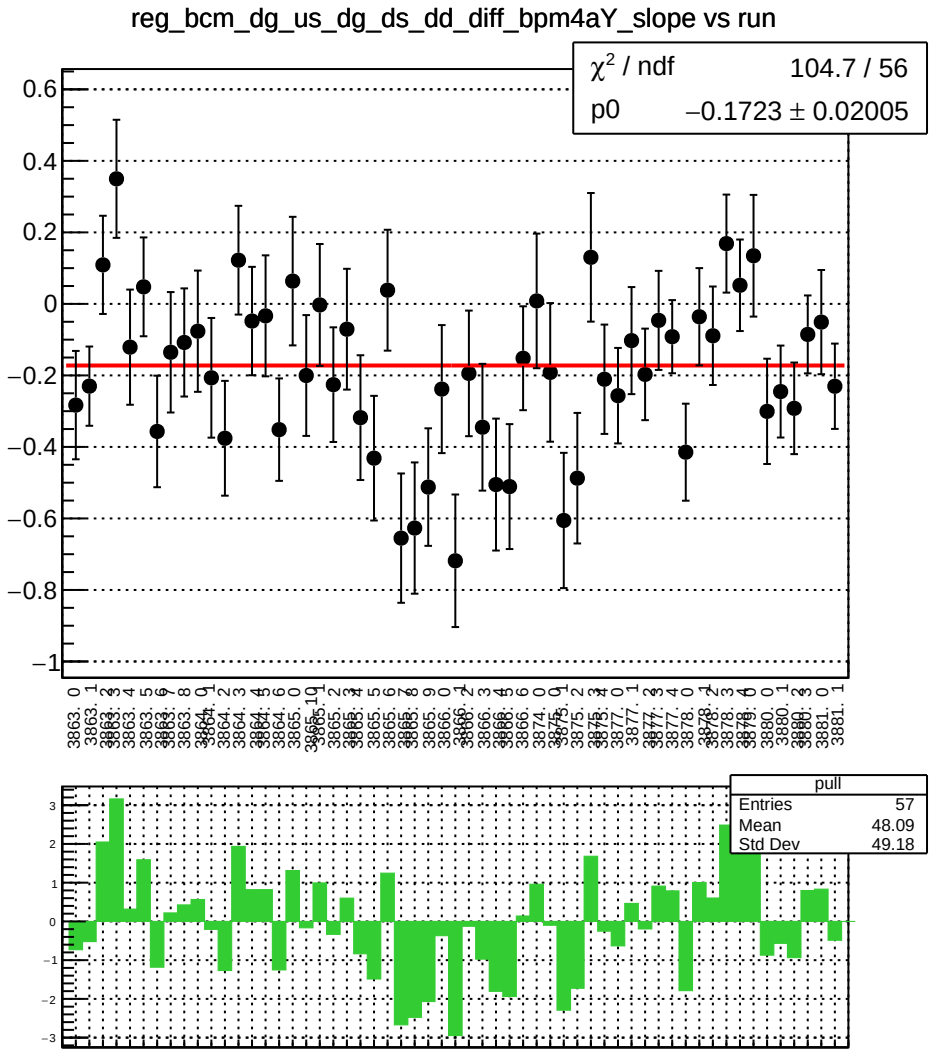

pull1D
Entries 57
Mean −0.005838
Std Dev 1.112

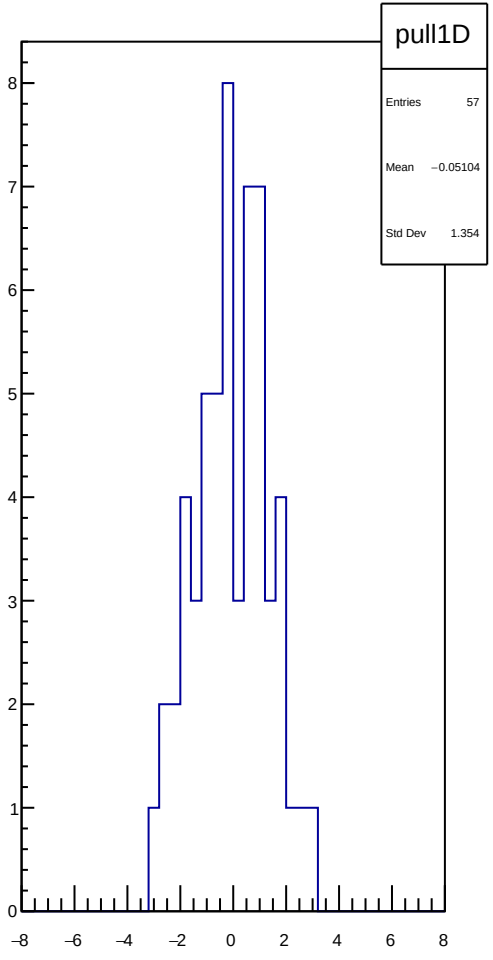

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 69.08 / 56
p0 0.005475 ± 0.004483
pull
Entries 57
Mean 19.04
Std Dev 12.78

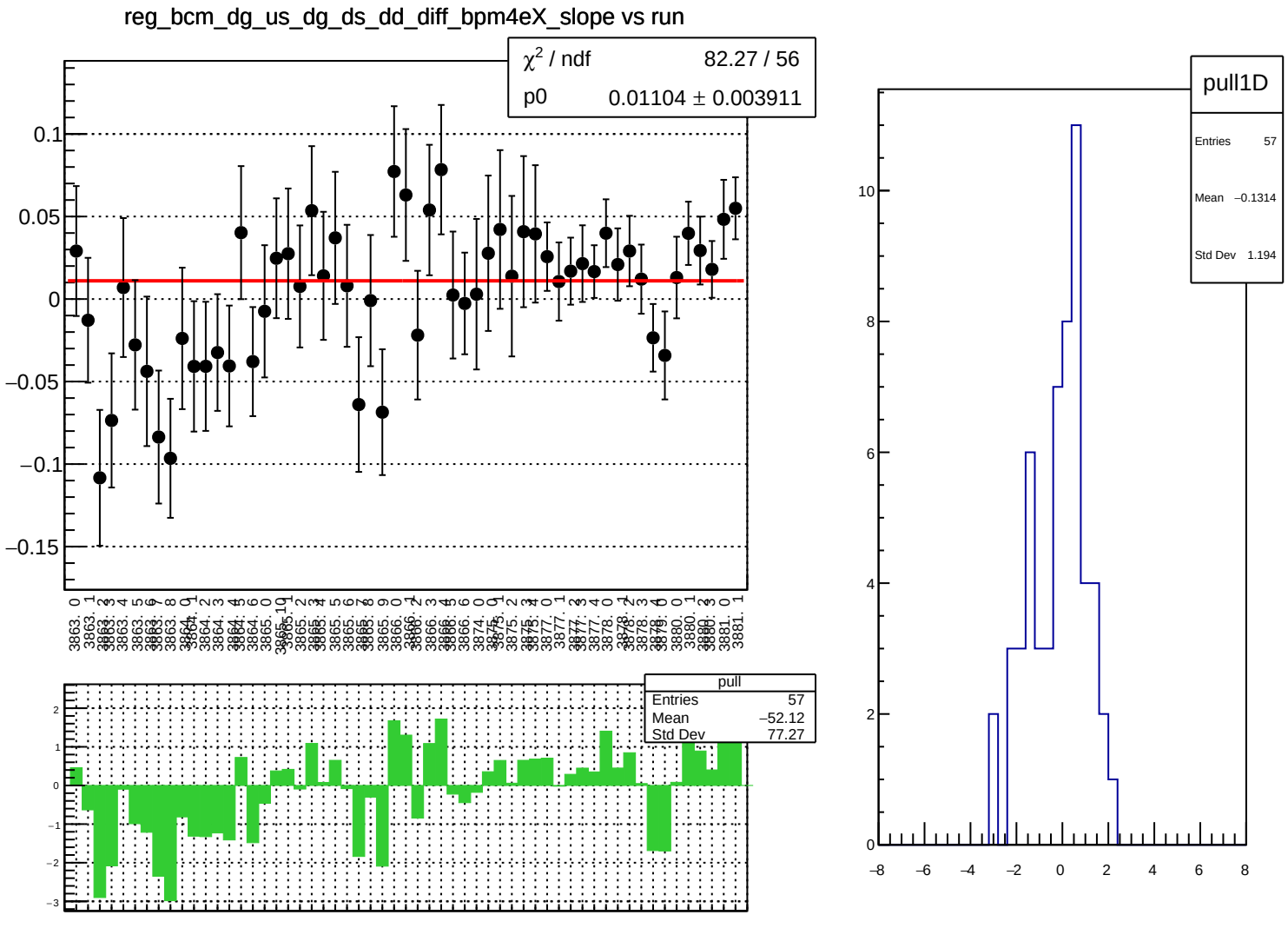

pull1D
Entries 57
Mean −0.06611
Std Dev 1.099

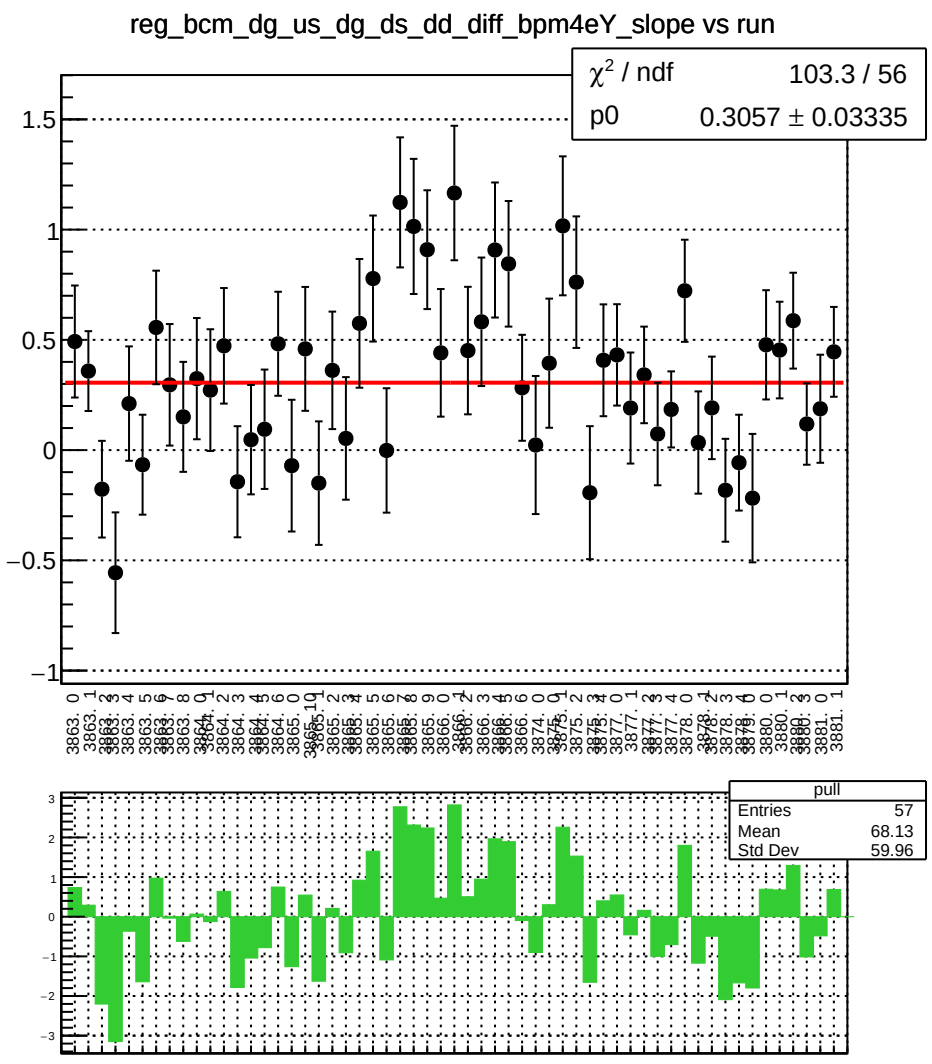

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 55.22 / 56
p0 −0.08015 ± 0.02472
pull
Entries 57
Mean −187
Std Dev 213.9

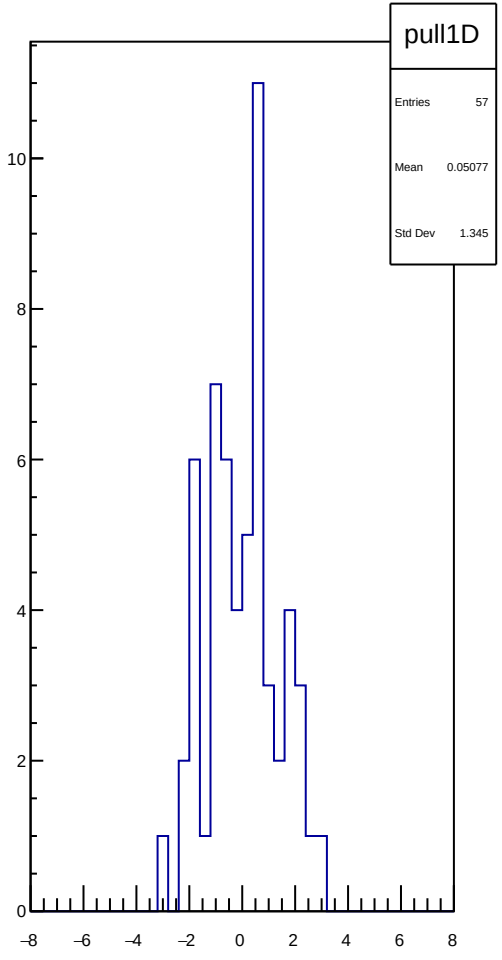

pull1D
Entries 57
Mean 0.0382
Std Dev 0.9836

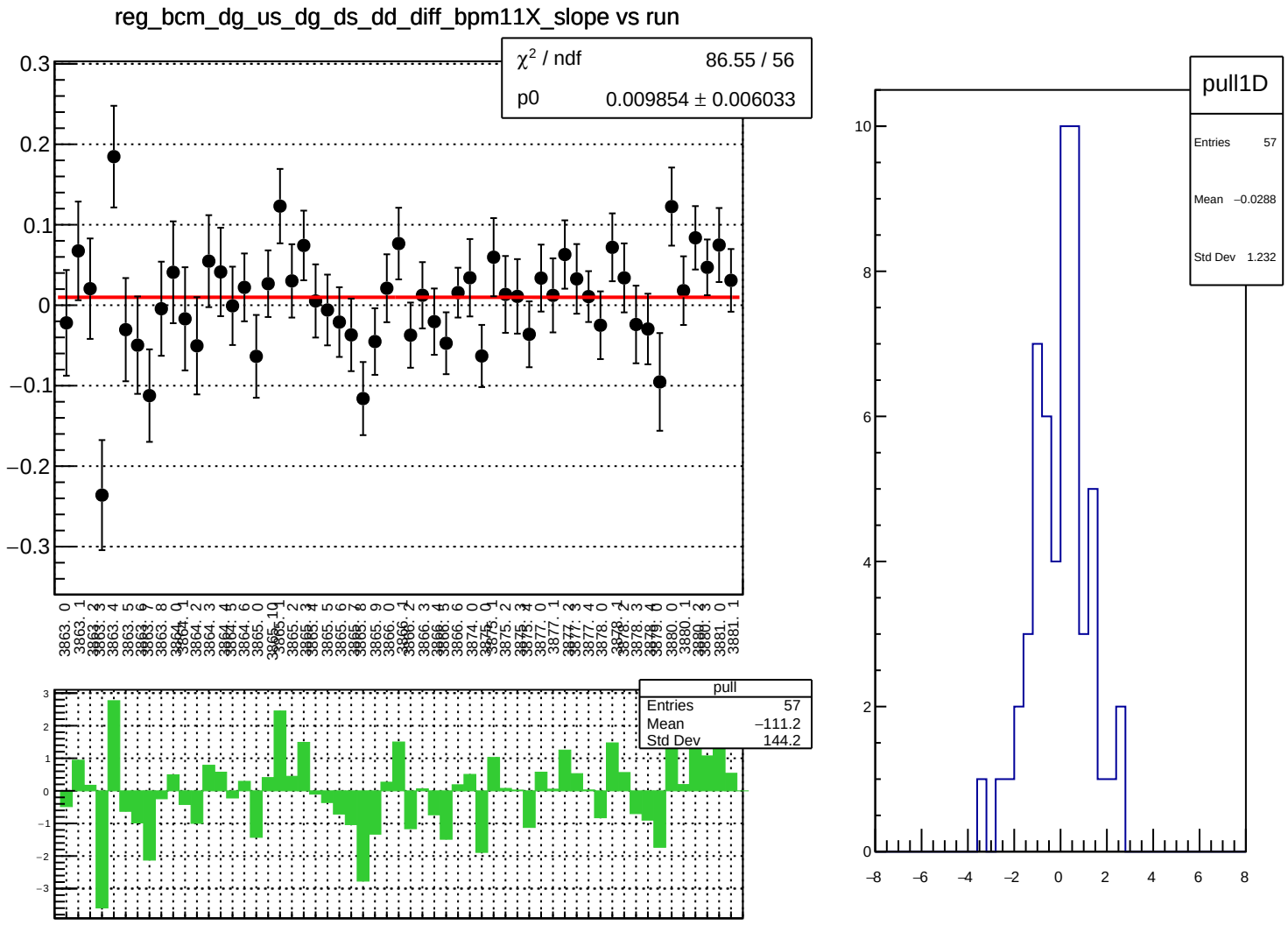

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 104.7 / 56
p0 −0.1723 ± 0.02005
pull
Entries 57
Mean 48.09
Std Dev 49.18

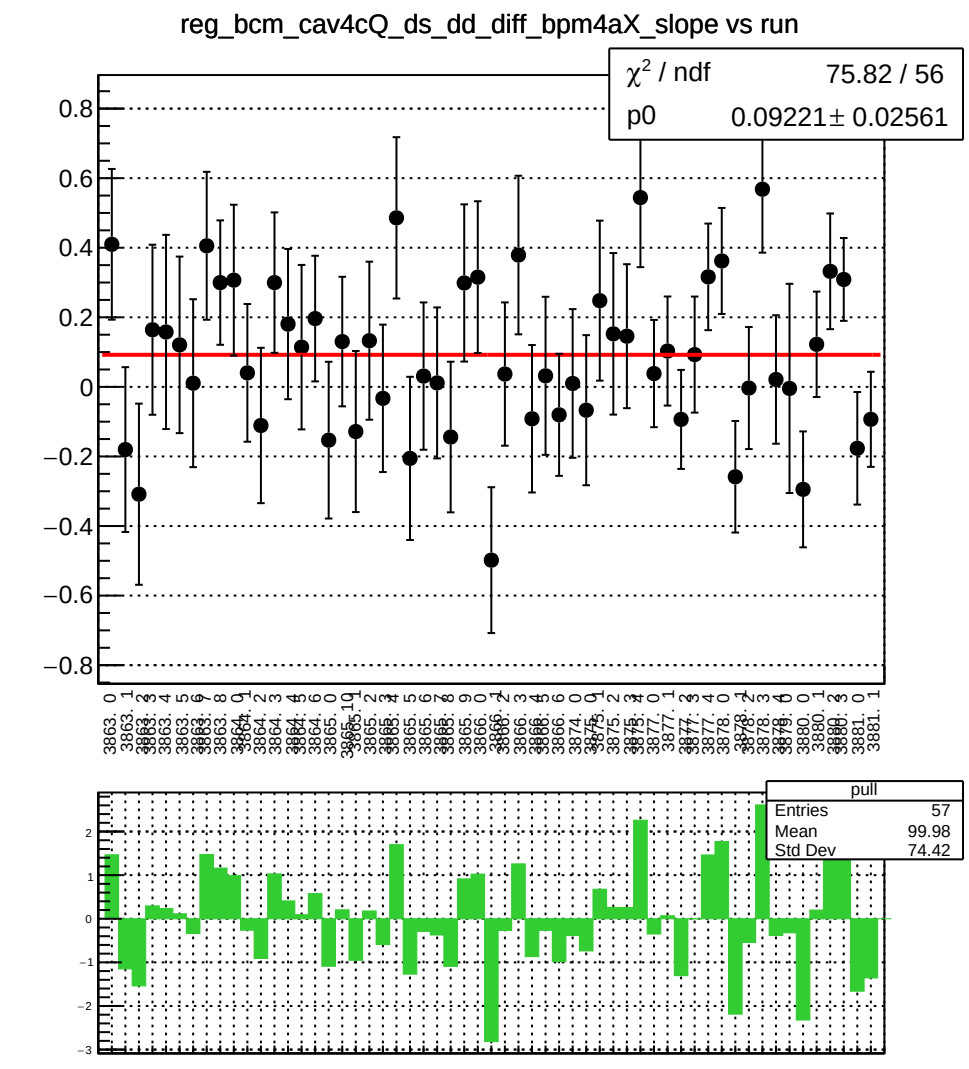

pull1D
Entries 57
Mean −0.05104
Std Dev 1.354

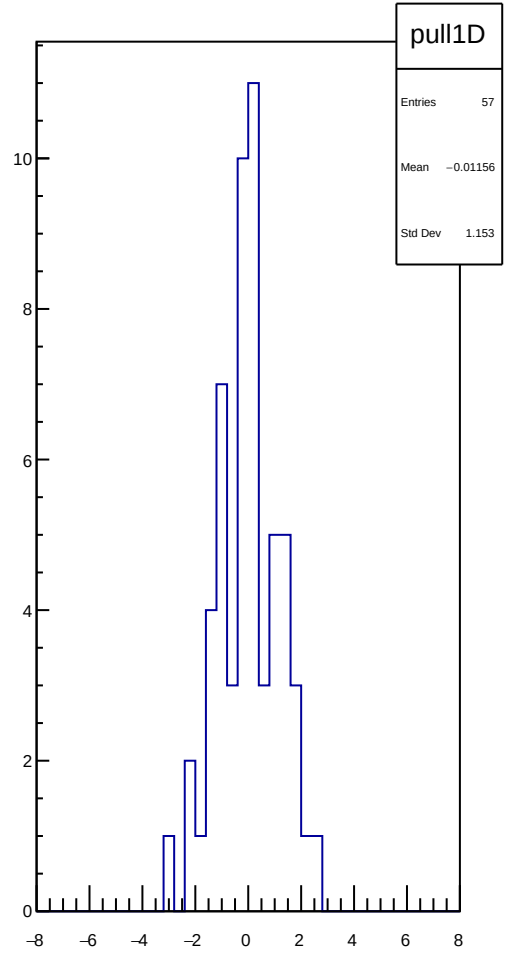

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 82.27 / 56
p0 0.01104 ± 0.003911
pull
Entries 57
Mean −52.12
Std Dev 77.27
pull1D
Entries 57
Mean −0.1314
Std Dev 1.194

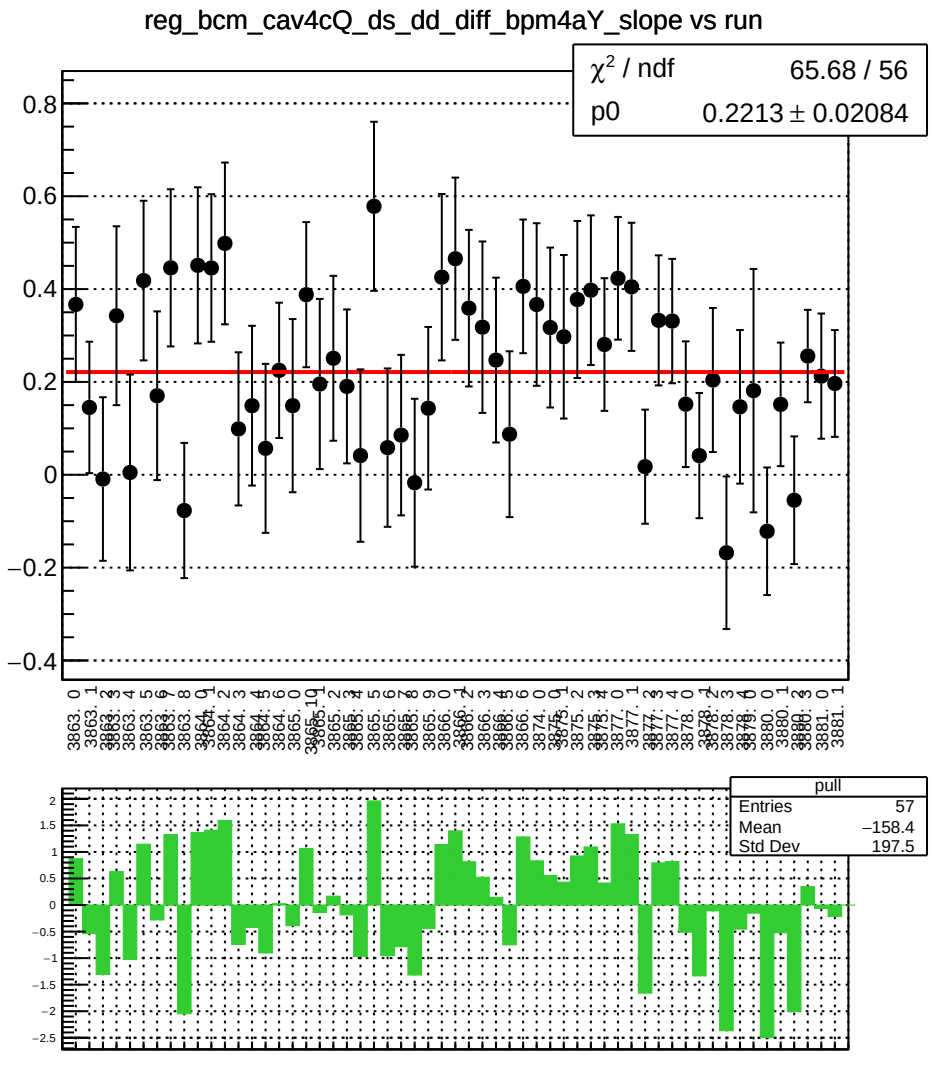

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 103.3 / 56
p0 0.3057 ± 0.03335
pull
Entries 57
Mean 68.13
Std Dev 59.96

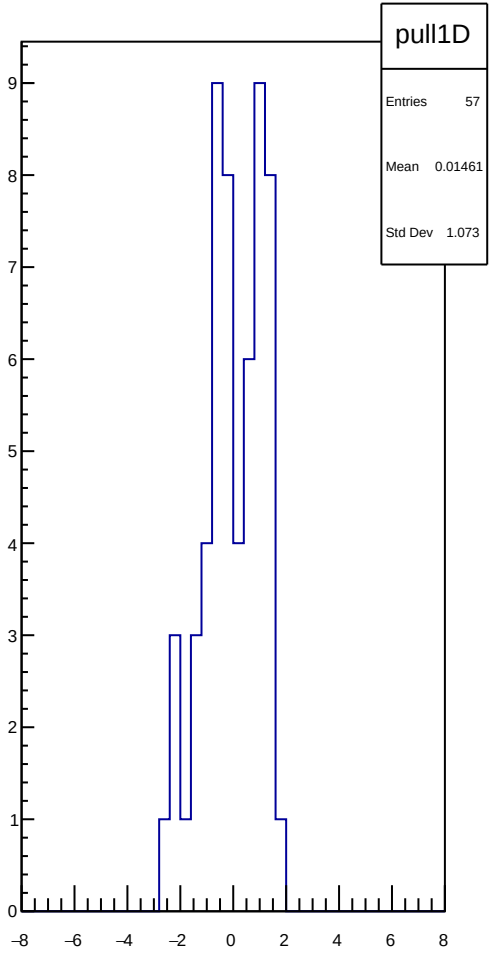

pull1D
Entries 57
Mean 0.05077
Std Dev 1.345

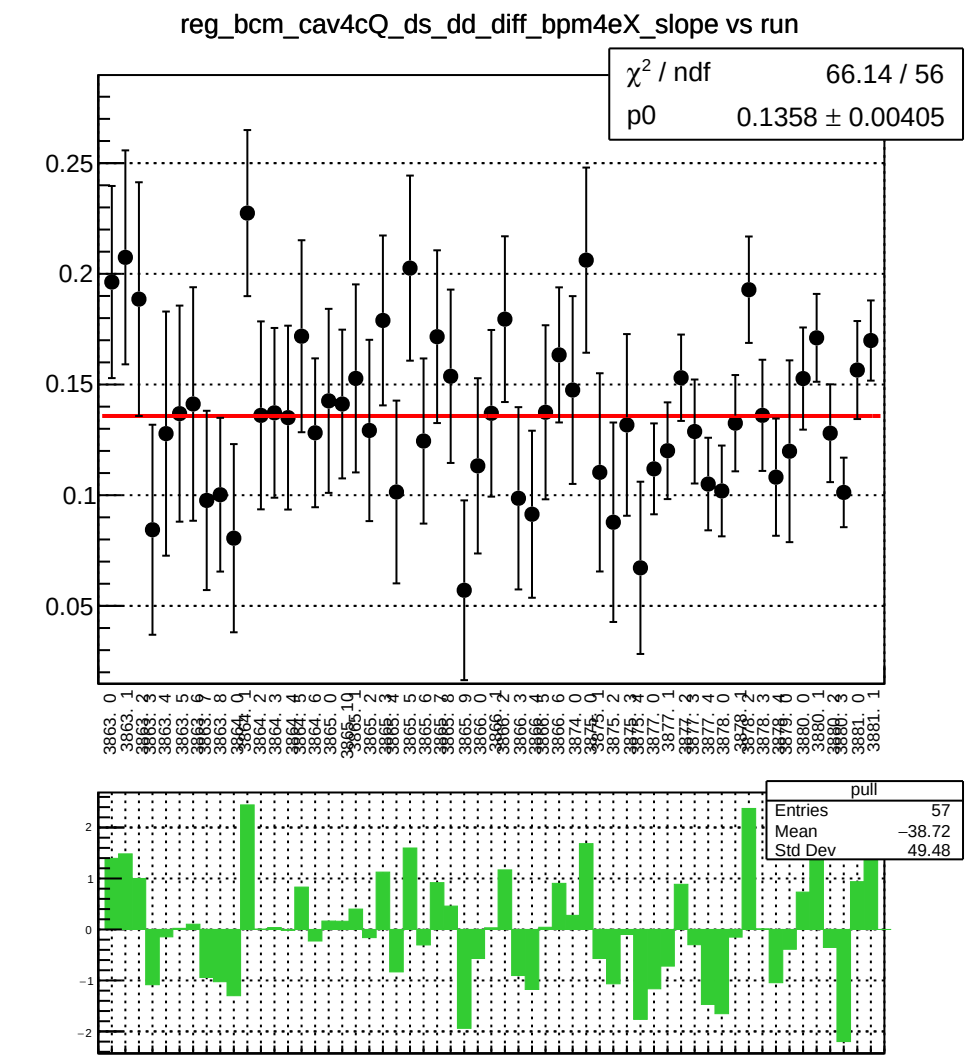

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 86.55 / 56
p0 0.009854 ± 0.006033
pull
Entries 57
Mean −111.2
Std Dev 144.2
pull1D
Entries 57
Mean −0.0288
Std Dev 1.232

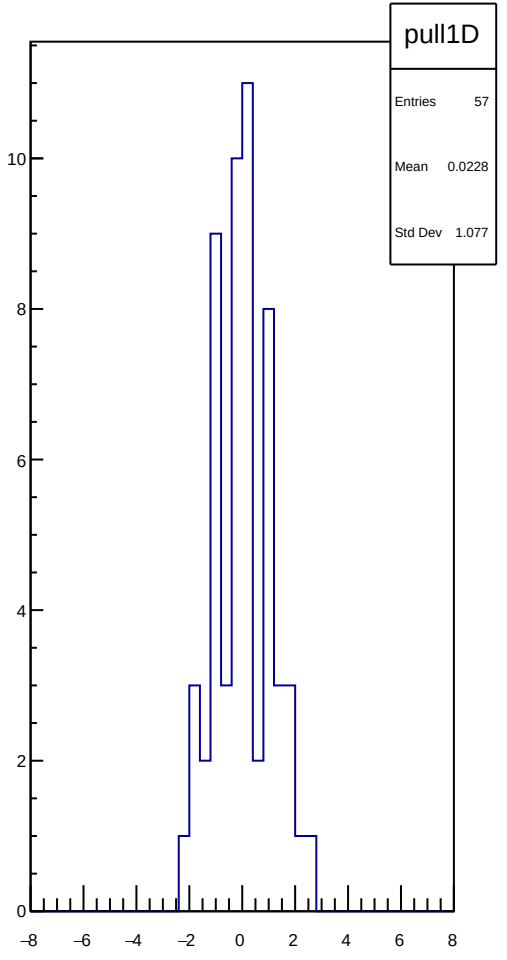

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 75.82 / 56
p0 0.09221± 0.02561
pull
Entries 57
Mean 99.98
Std Dev 74.42

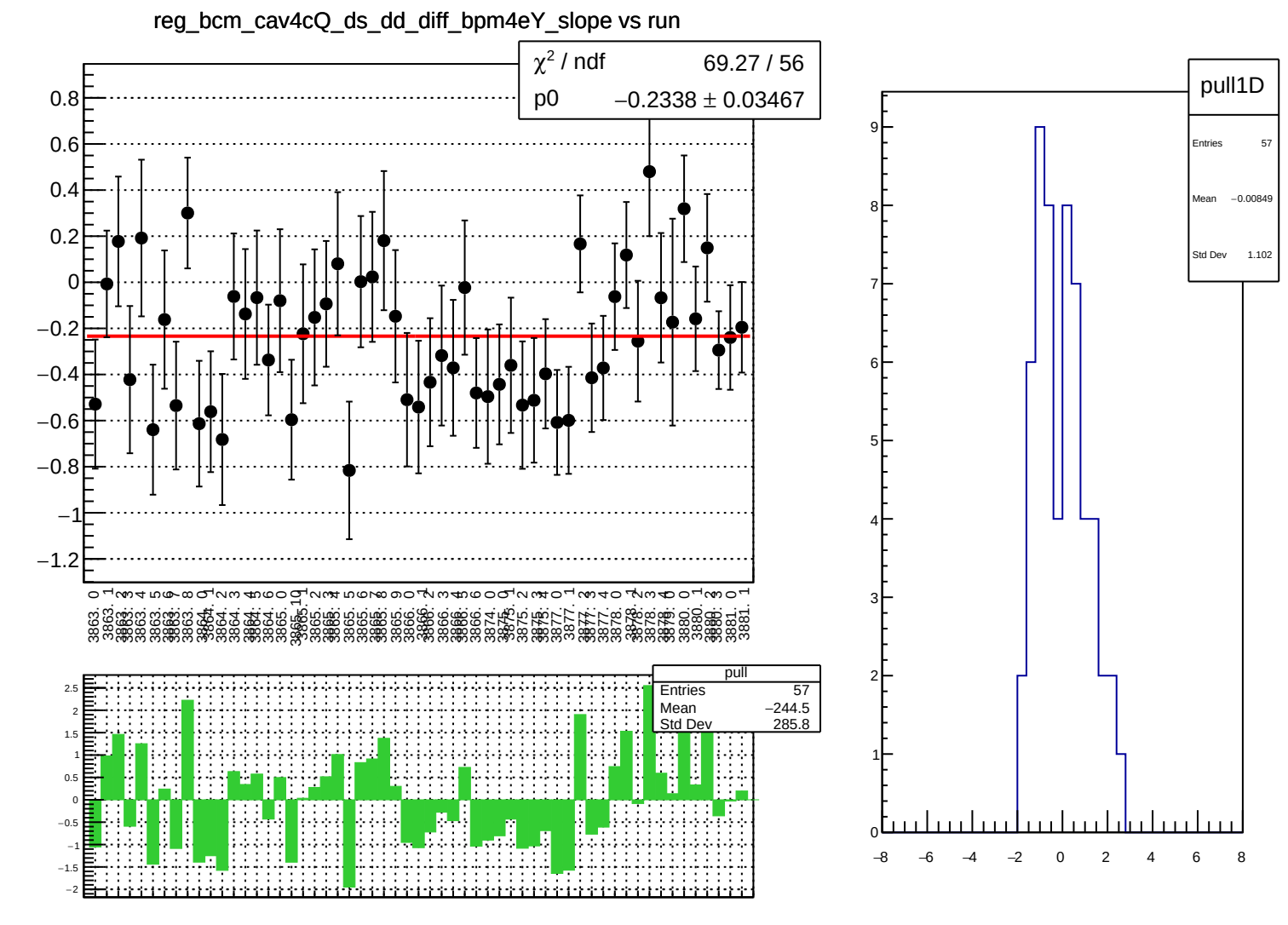

pull1D
Entries 57
Mean −0.01156
Std Dev 1.153

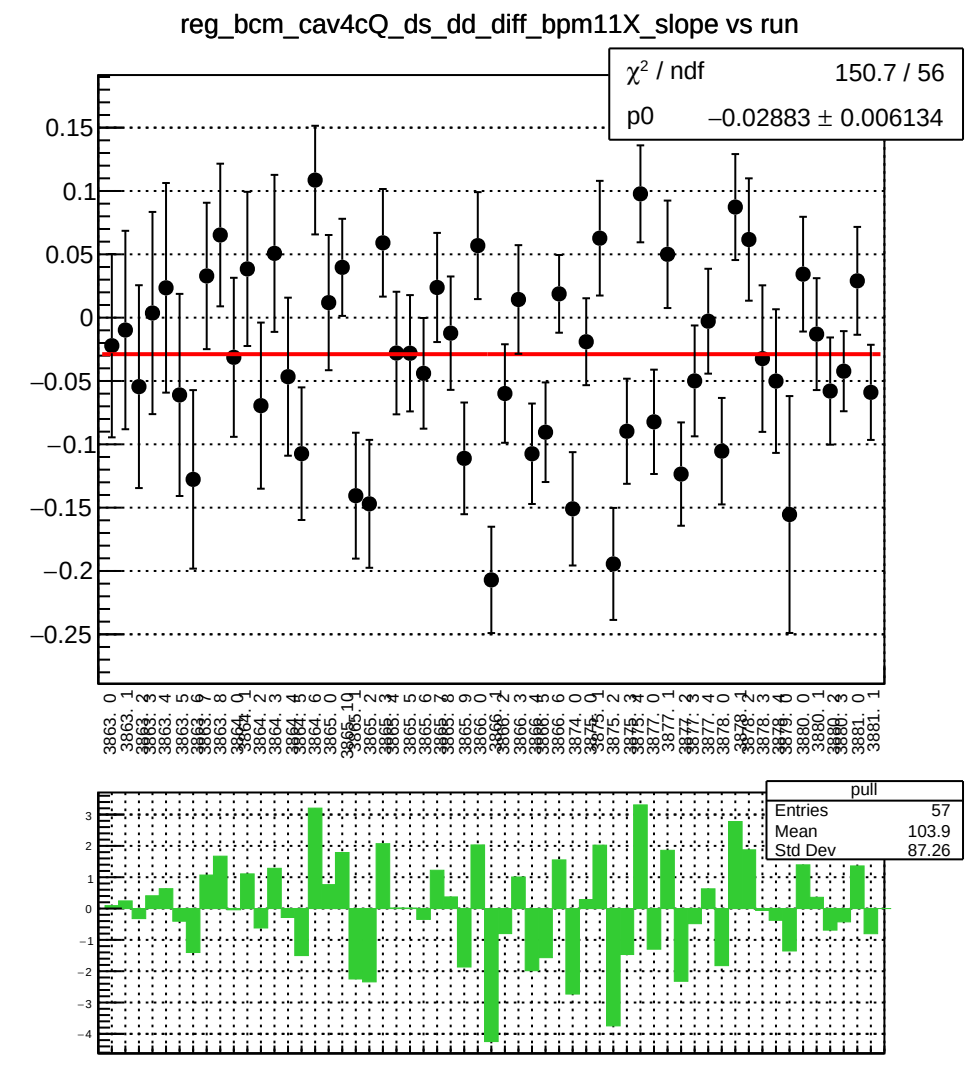

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.68 / 56
p0 0.2213 ± 0.02084
pull
Entries 57
Mean −158.4
Std Dev 197.5

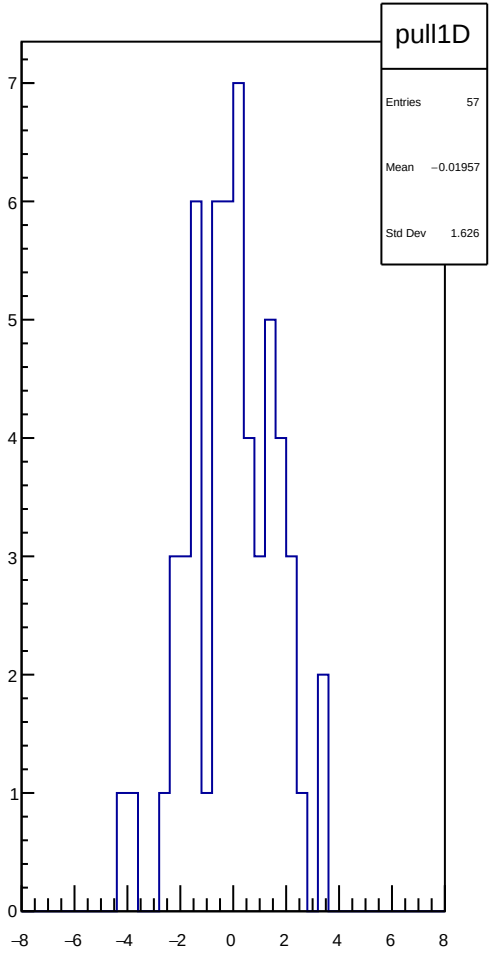

pull1D
Entries 57
Mean 0.01461
Std Dev 1.073

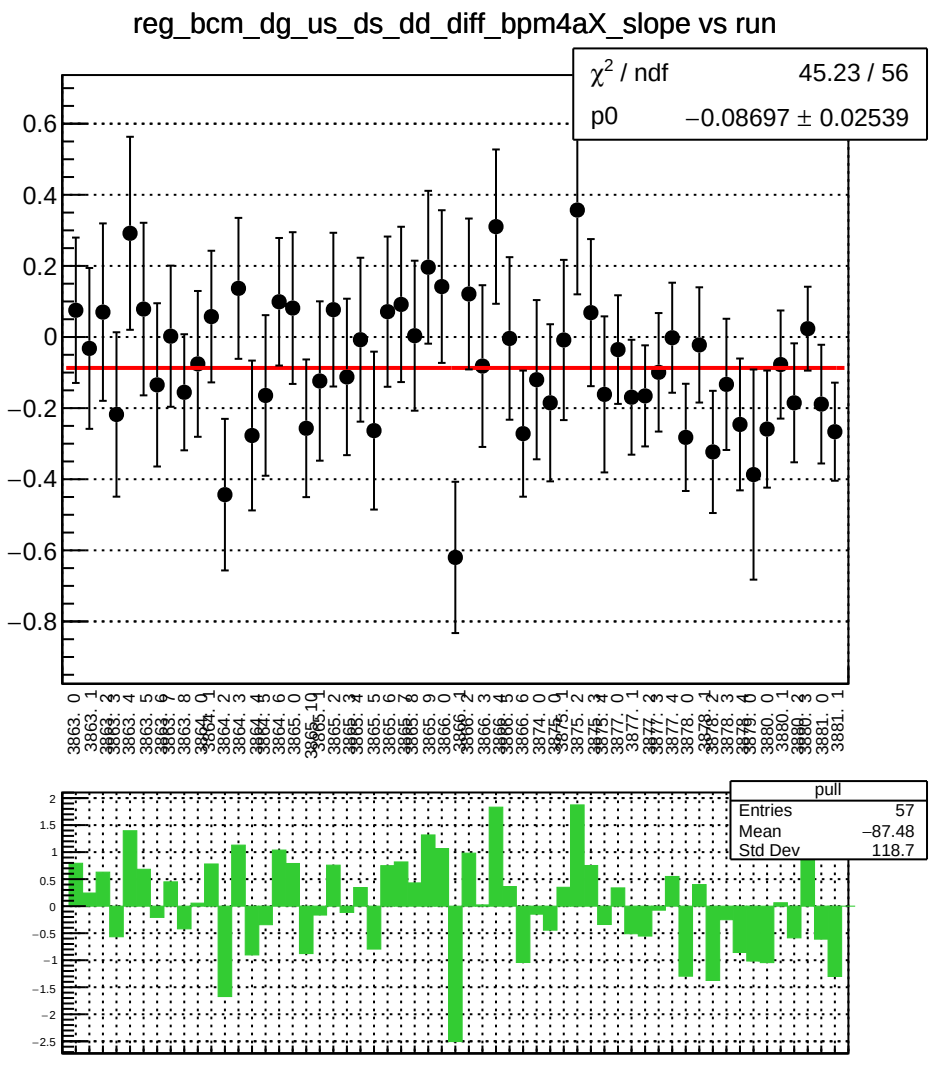

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.14 / 56
p0 0.1358 ± 0.00405
0.25
0.2
0.15
0.1
0.05
pull
Entries 57
Mean −38.72
Std Dev 49.48
2
1
0
−1
−2

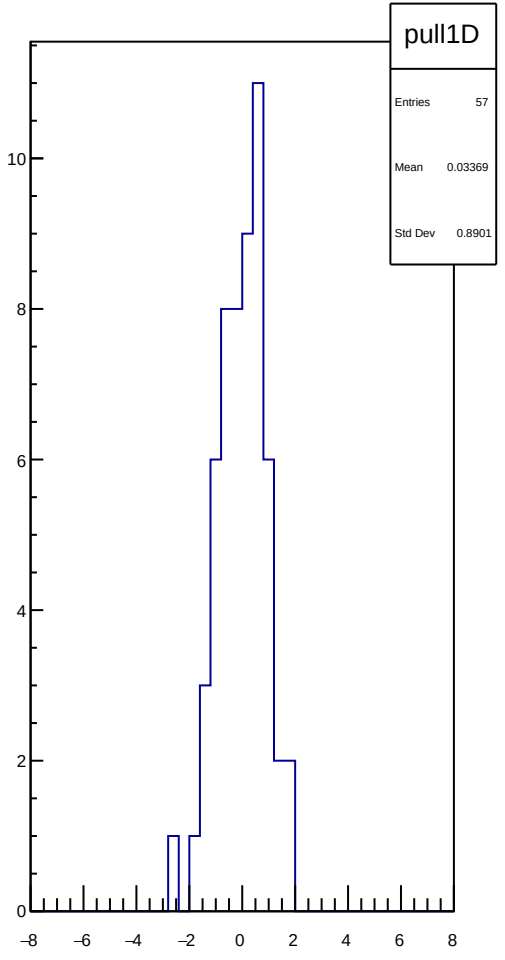

pull1D
Entries 57
Mean 0.0228
Std Dev 1.077
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

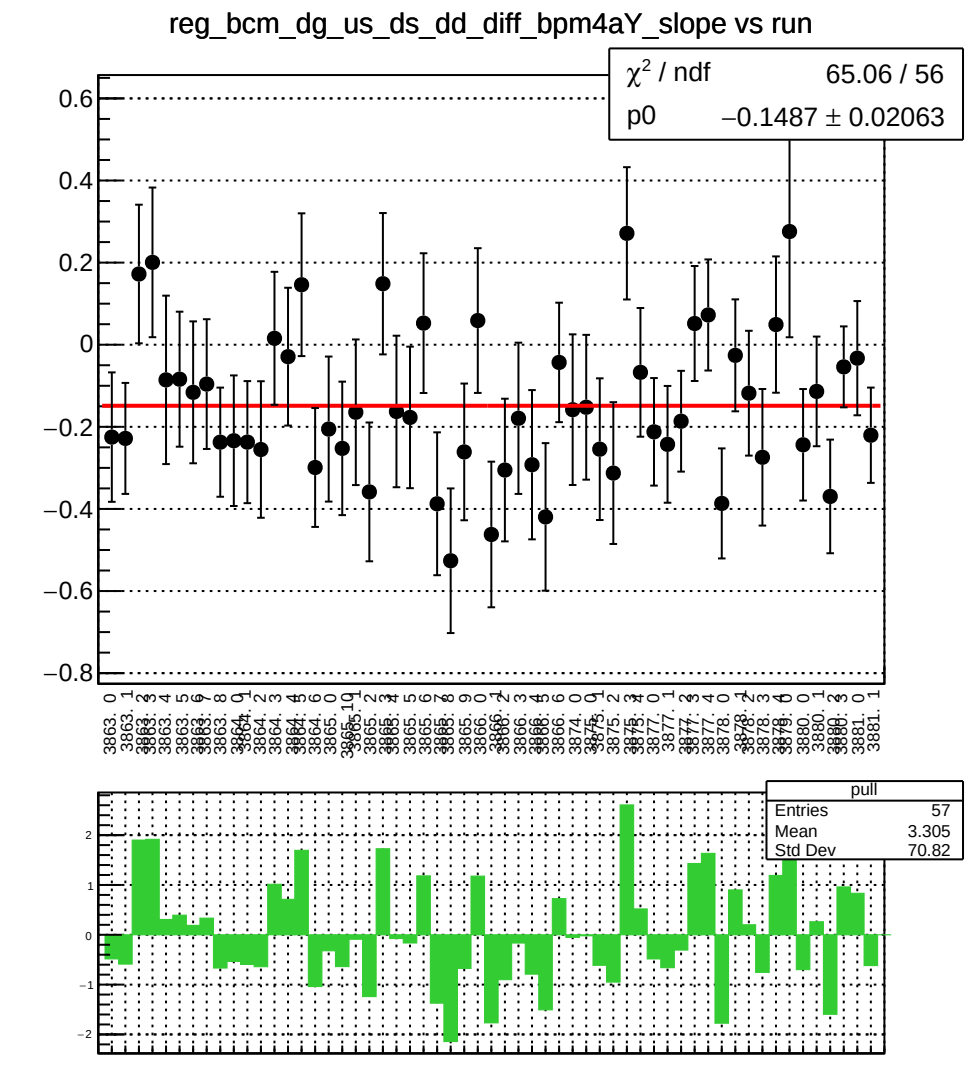

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 69.27 / 56
p0 −0.2338 ± 0.03467
pull
Entries 57
Mean −244.5
Std Dev 285.8
pull1D
Entries 57
Mean −0.00849
Std Dev 1.102

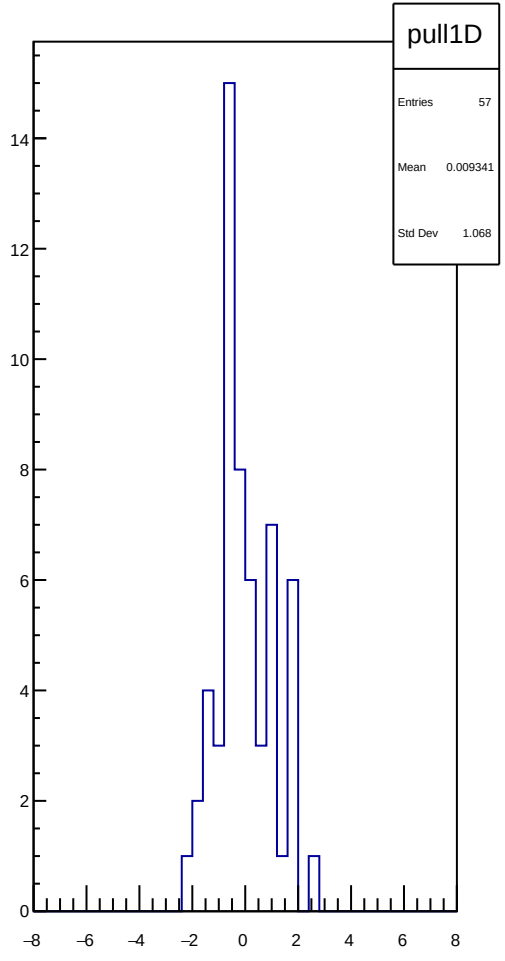

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 150.7 / 56
p0 −0.02883 ± 0.006134
pull
Entries 57
Mean 103.9
Std Dev 87.26

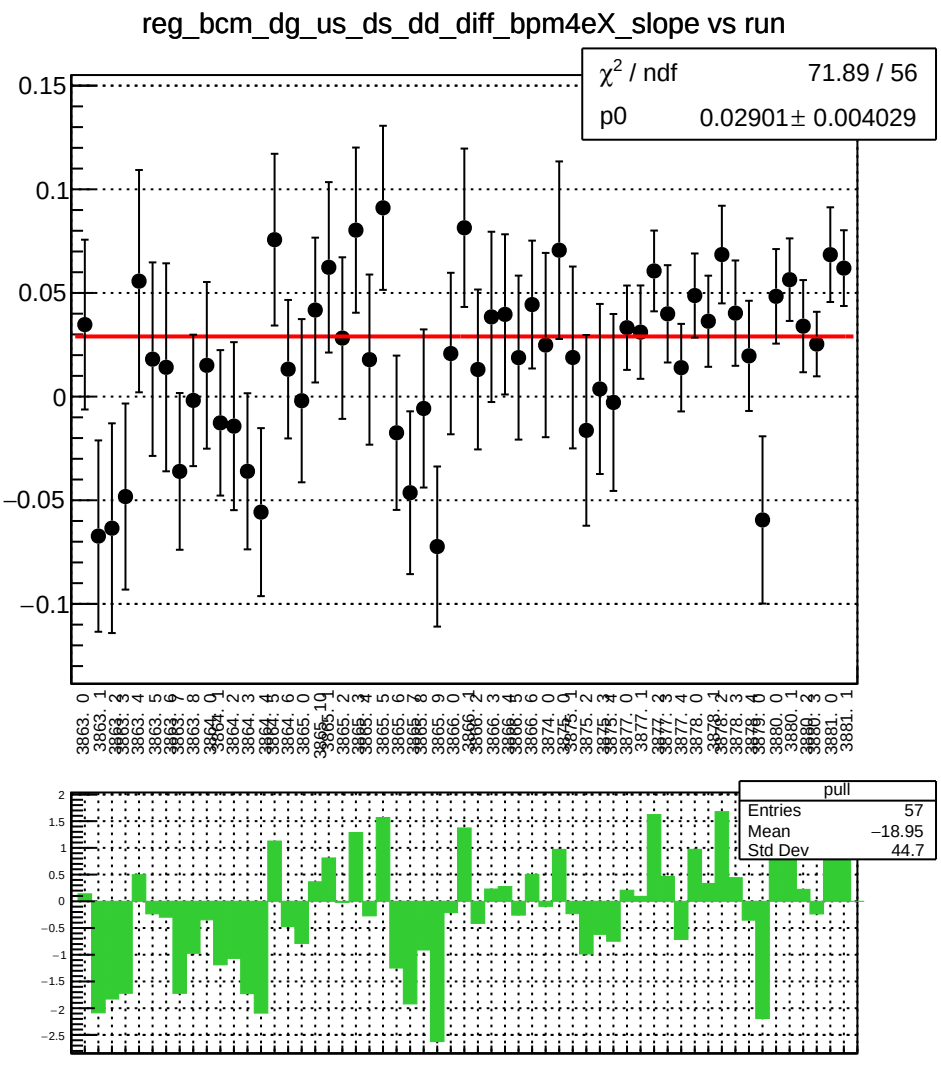

pull1D
Entries 57
Mean −0.01957
Std Dev 1.626

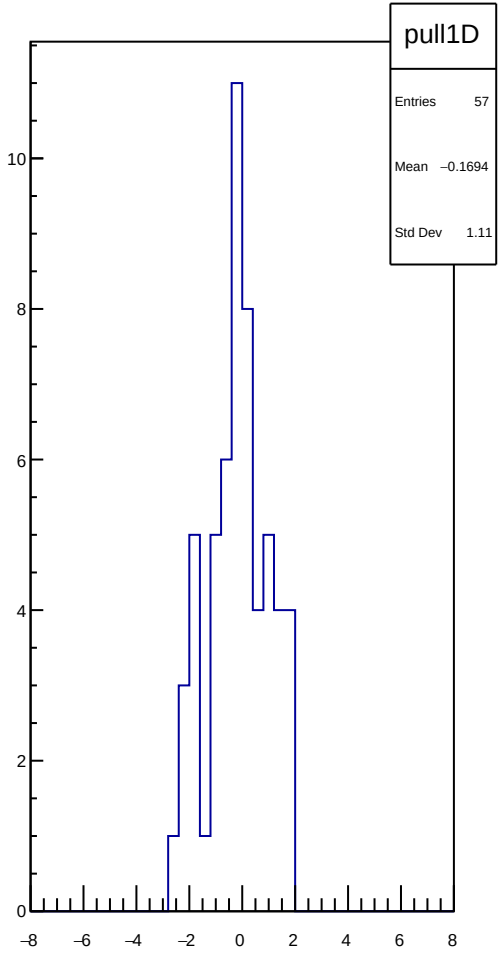

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 45.23 / 56
p0 −0.08697 ± 0.02539
pull
Entries 57
Mean −87.48
Std Dev 118.7

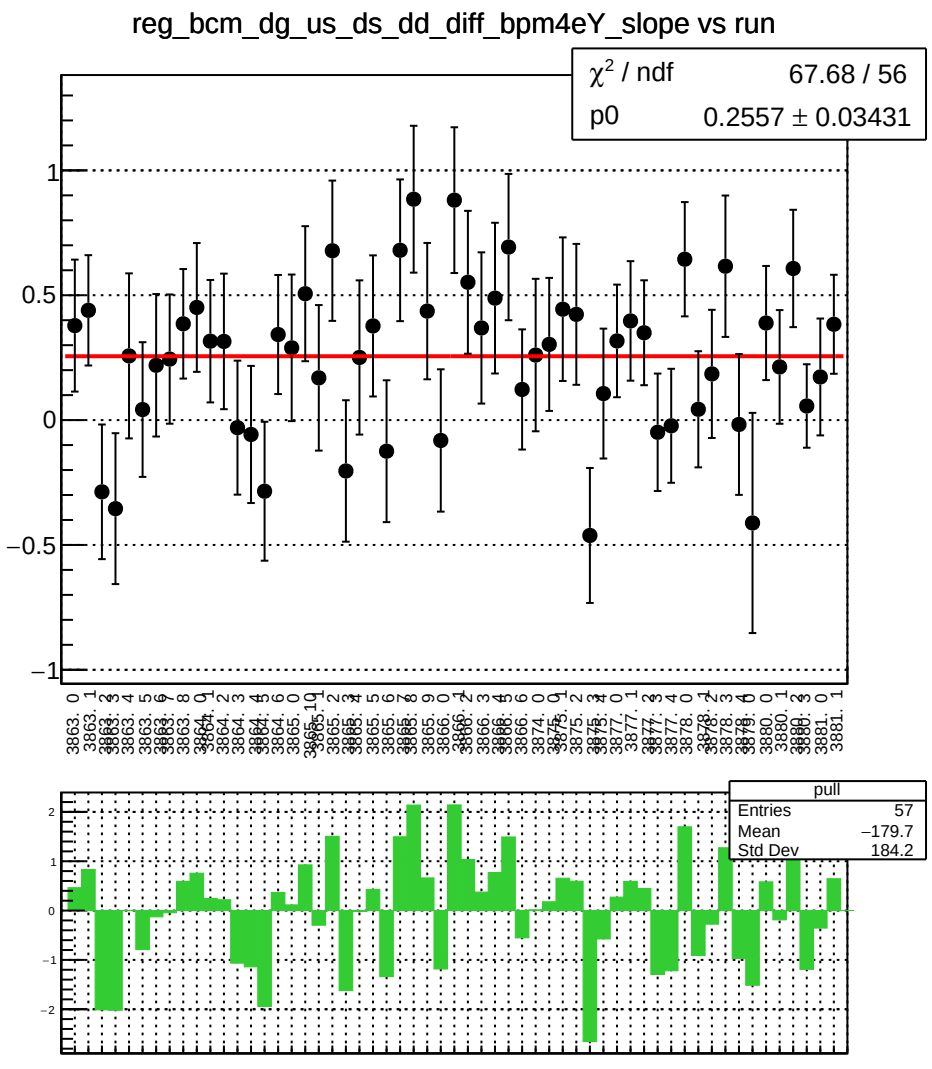

pull1D
Entries 57
Mean 0.03369
Std Dev 0.8901

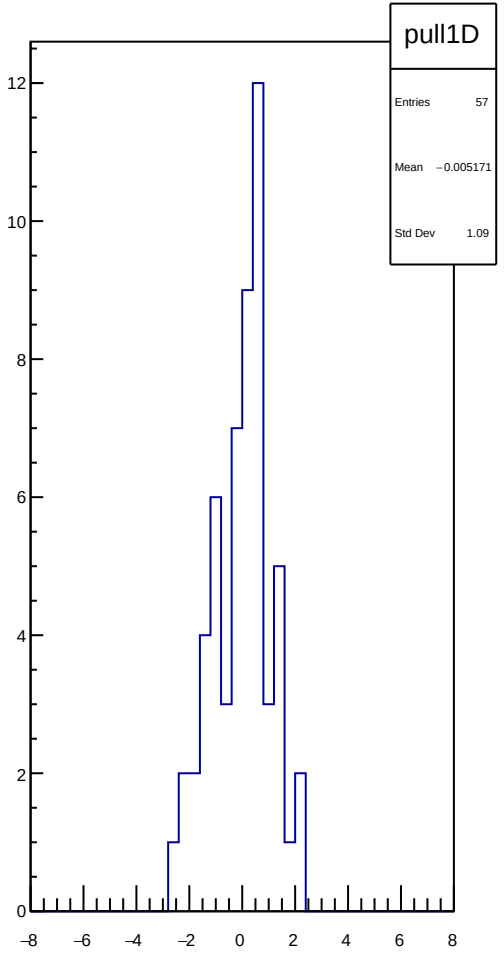

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.06 / 56
p0 −0.1487 ± 0.02063
pull
Entries 57
Mean 3.305
Std Dev 70.82

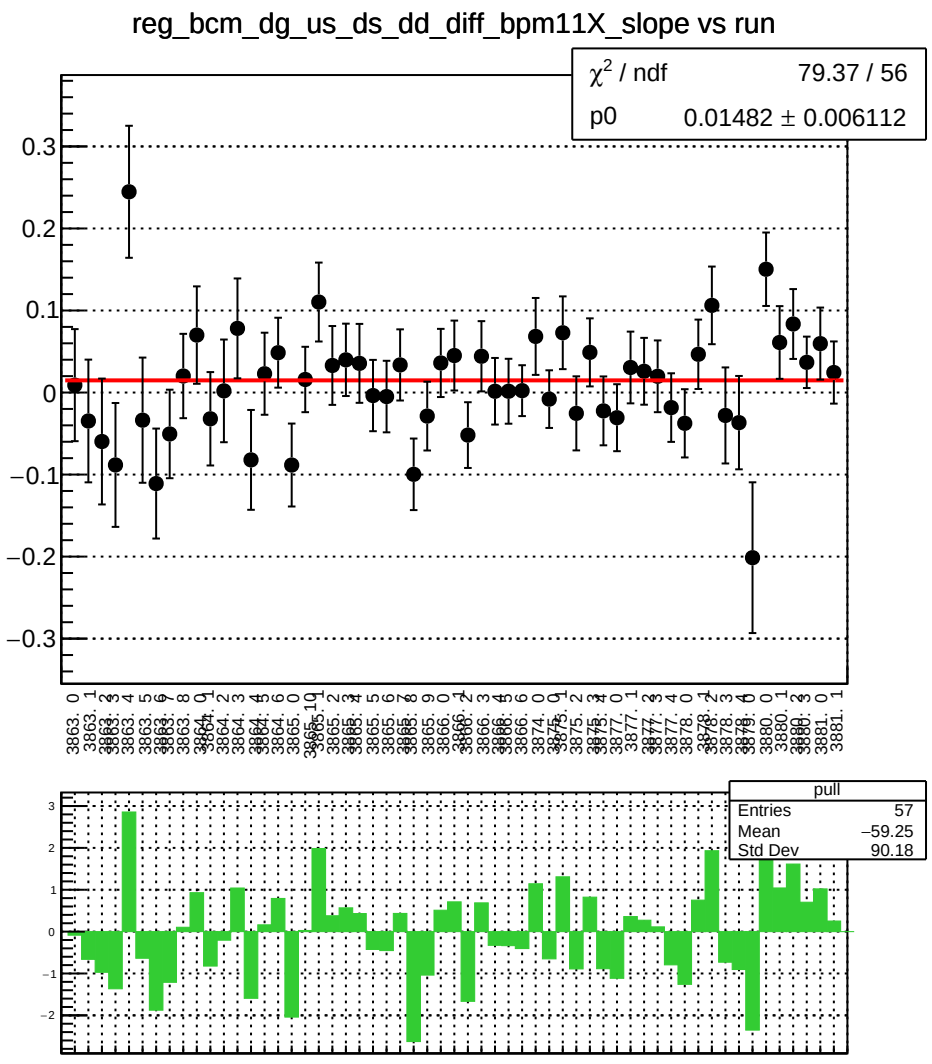

pull1D
Entries 57
Mean 0.009341
Std Dev 1.068

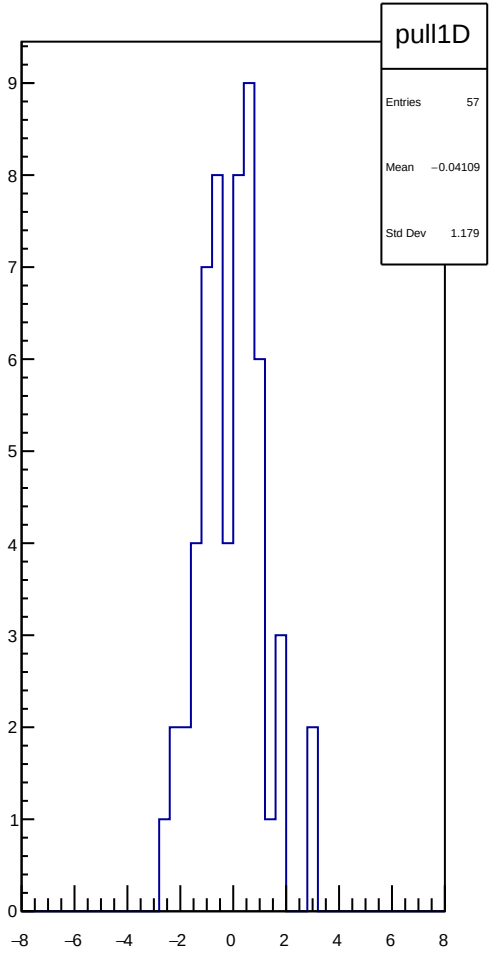

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.89 / 56
p0 0.02901± 0.004029
pull
Entries 57
Mean −18.95
Std Dev 44.7

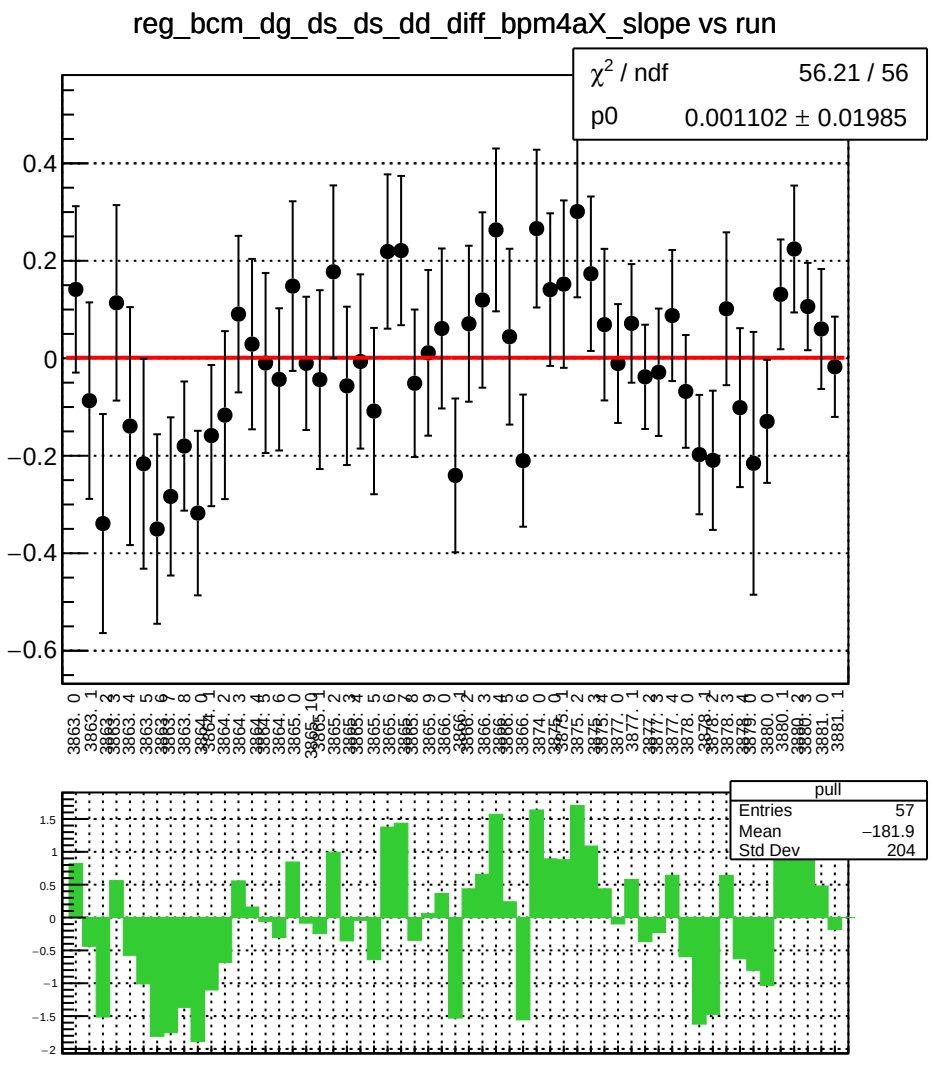

pull1D
Entries 57
Mean −0.1694
Std Dev 1.11

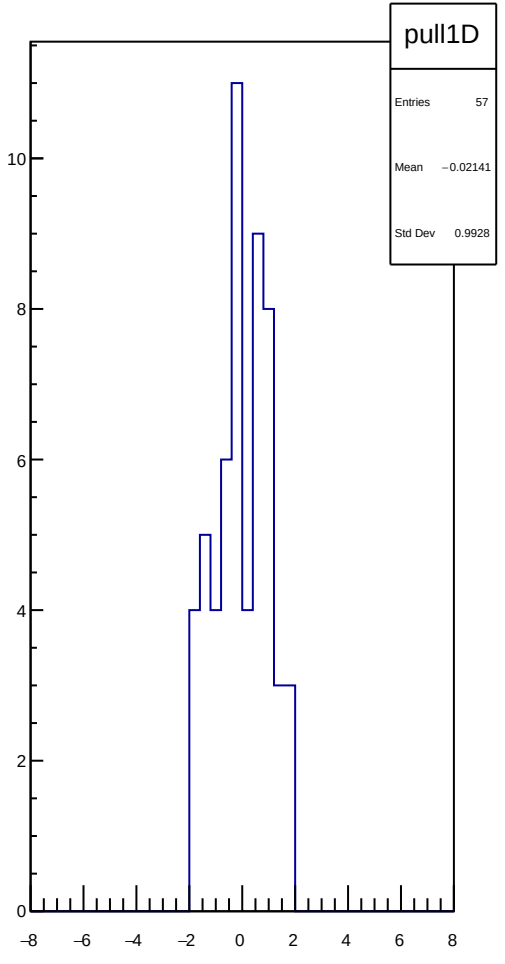

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.68 / 56
p0 0.2557 ± 0.03431
pull
Entries 57
Mean −179.7
Std Dev 184.2

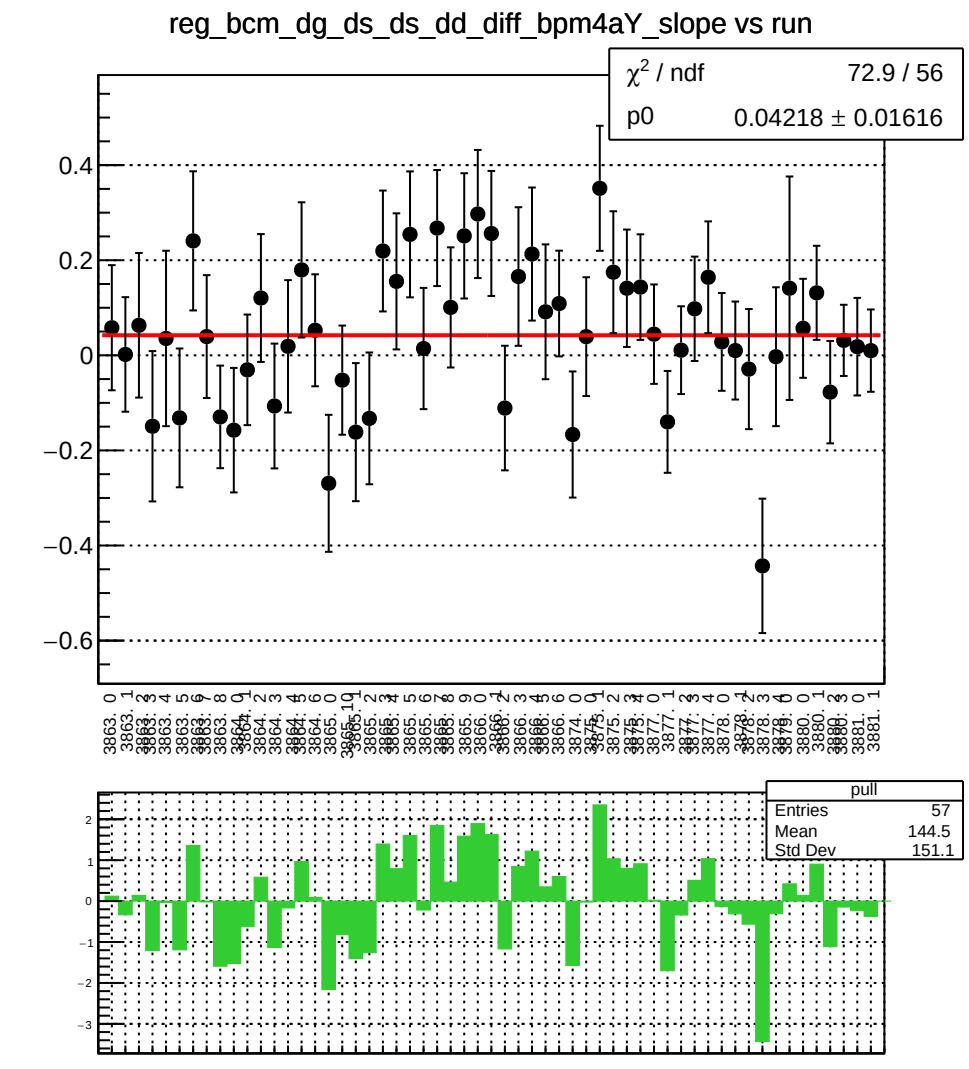

pull1D
Entries 57
Mean −0.005171
Std Dev 1.09

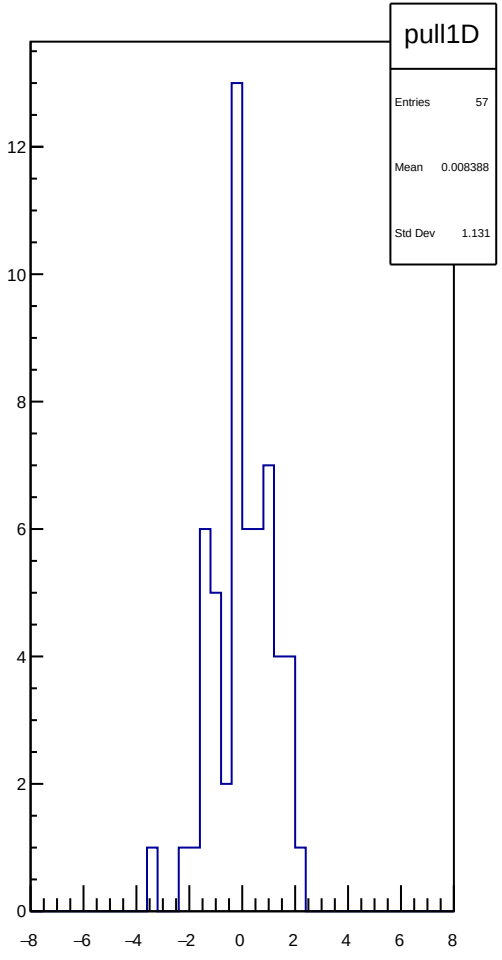

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 79.37 / 56
p0 0.01482 ± 0.006112
pull
Entries 57
Mean −59.25
Std Dev 90.18

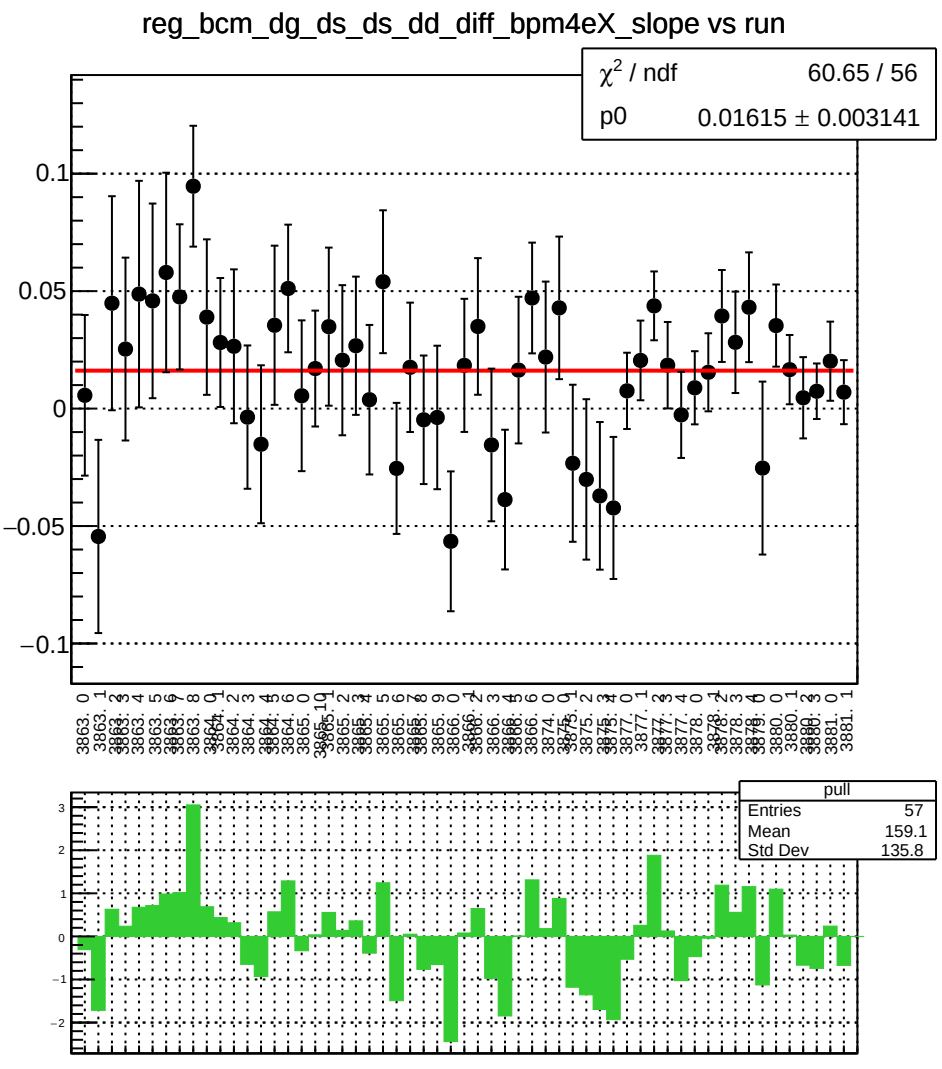

pull1D
Entries 57
Mean −0.04109
Std Dev 1.179

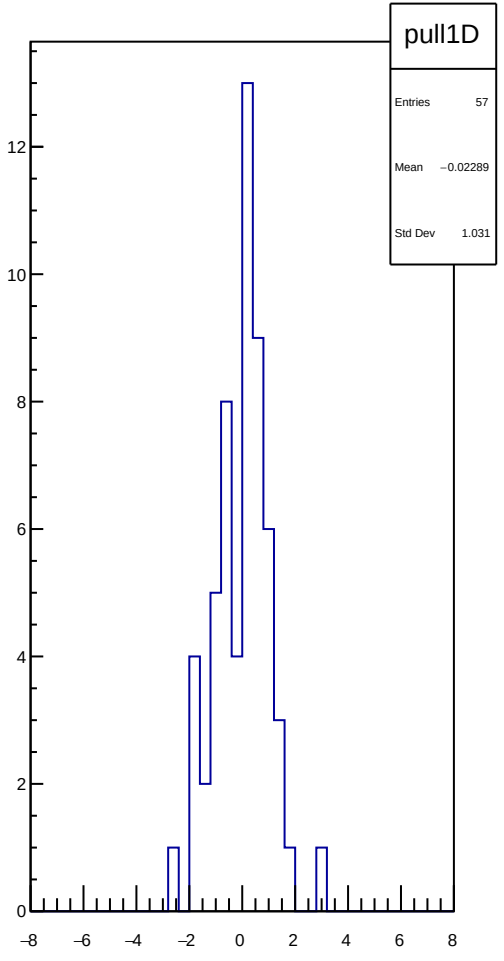

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 56.21 / 56
p0 0.001102 ± 0.01985
pull
Entries 57
Mean −181.9
Std Dev 204

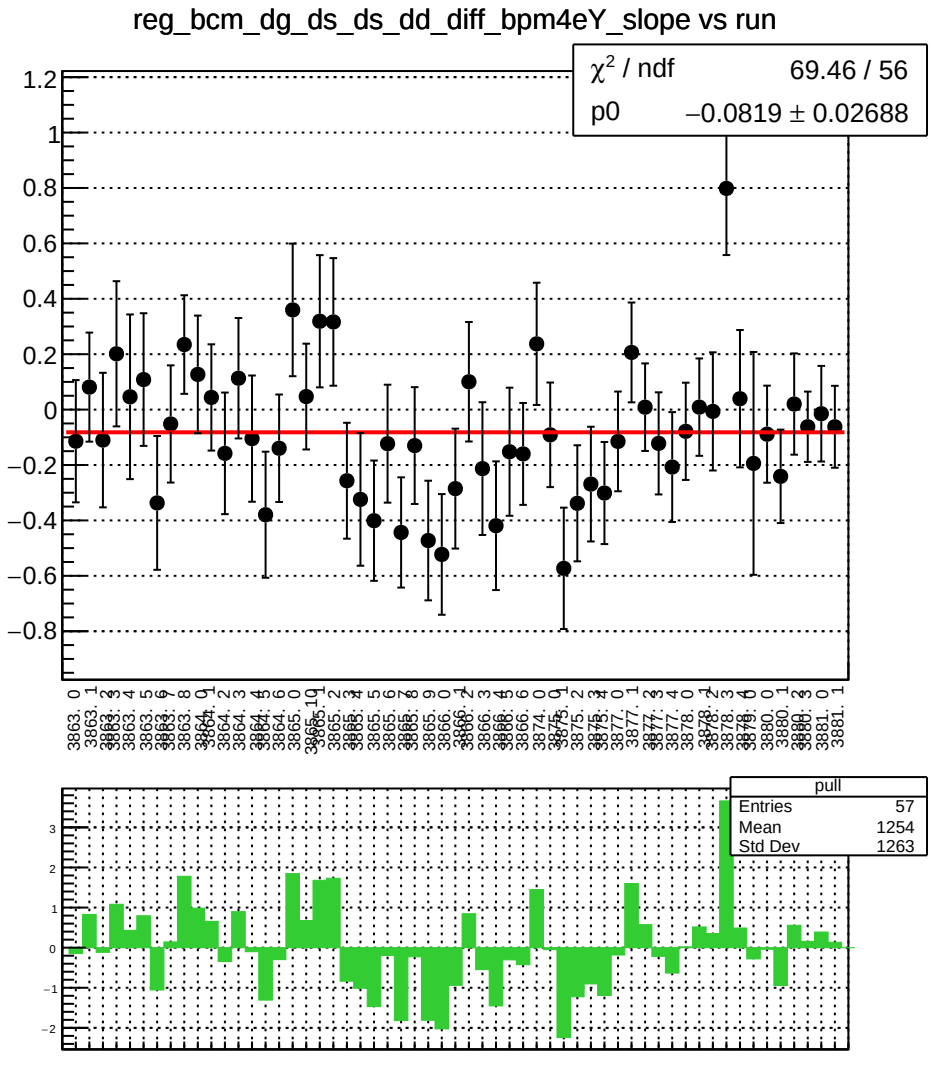

pull1D
Entries 57
Mean −0.02141
Std Dev 0.9928

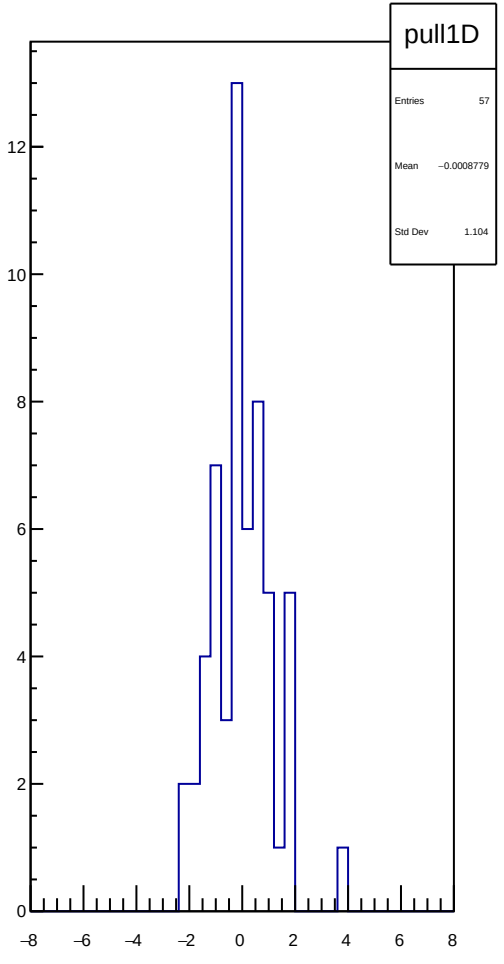

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.9 / 56
p0 0.04218 ± 0.01616
pull
Entries 57
Mean 144.5
Std Dev 151.1

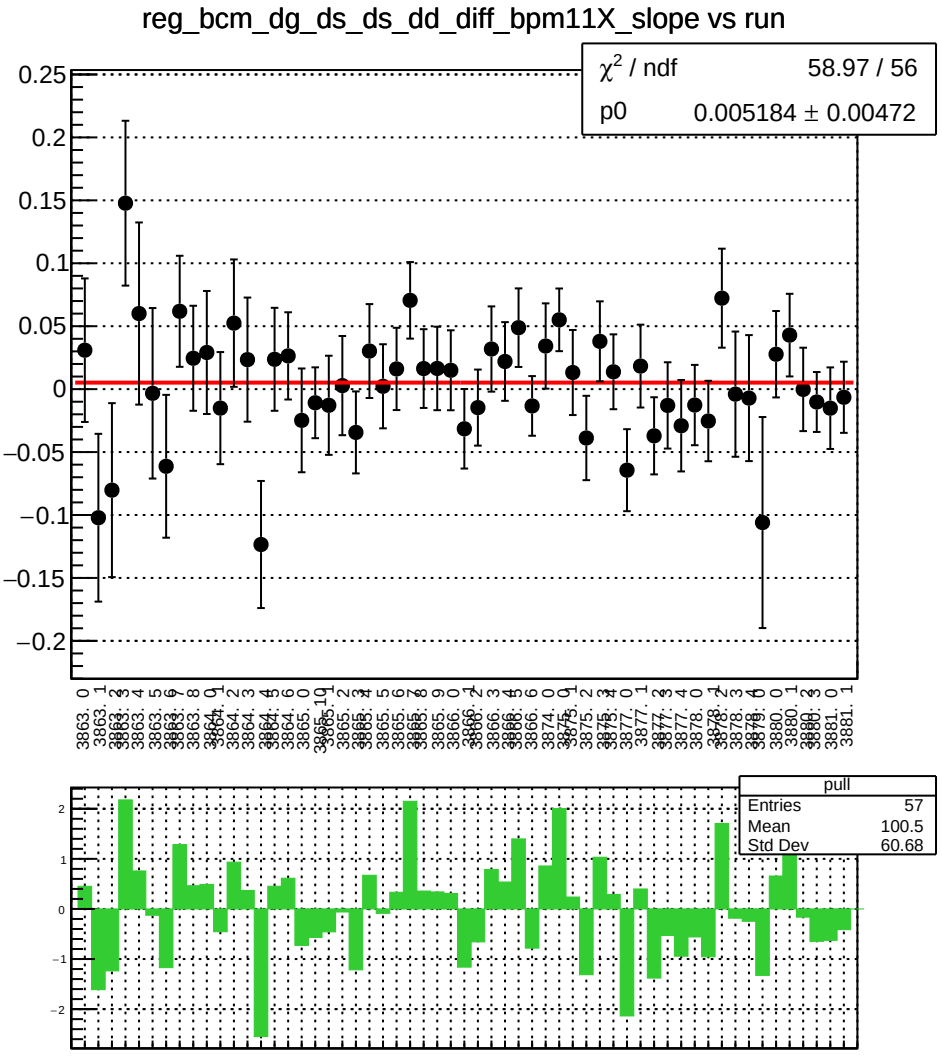

pull1D
Entries 57
Mean 0.008388
Std Dev 1.131

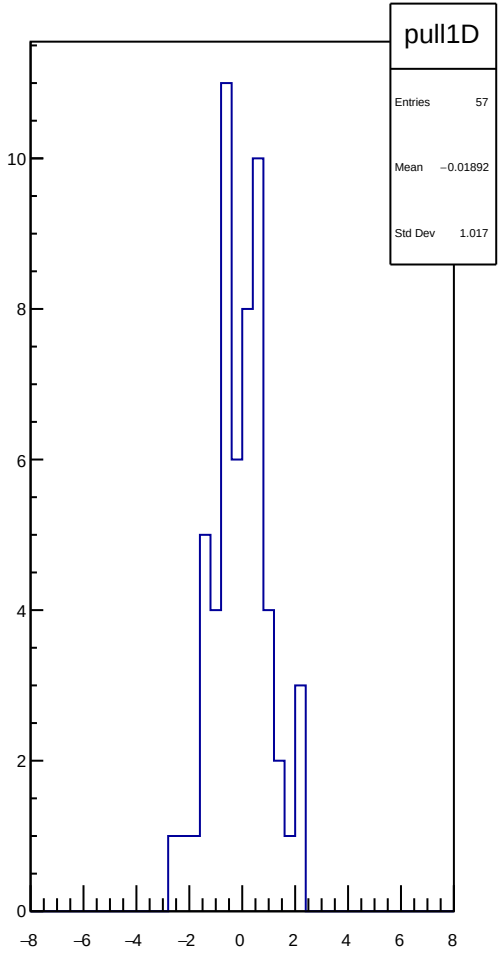

reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.65 / 56
p0 0.01615 ± 0.003141
0.1
0.05
0
−0.05
−0.1
pull
Entries 57
Mean 159.1
Std Dev 135.8
3
2
1
0
−1
−2

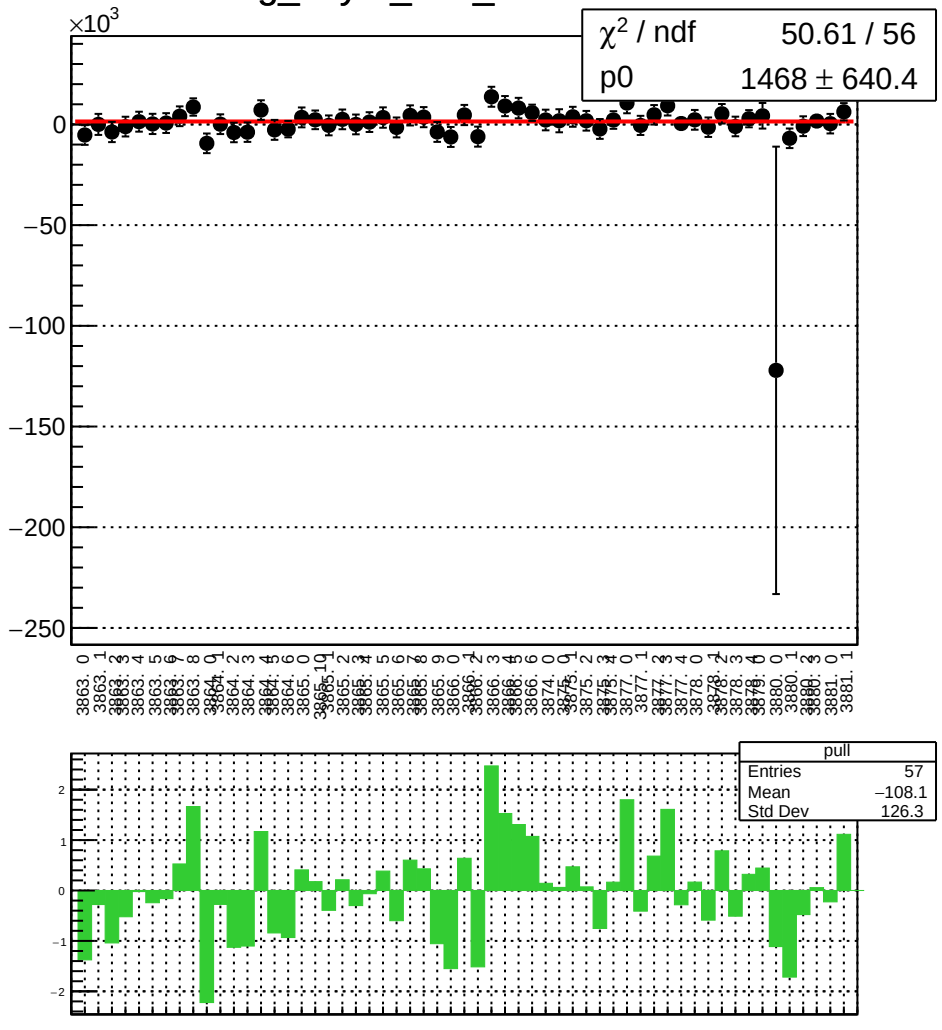

pull1D
Entries 57
Mean −0.02289
Std Dev 1.031
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

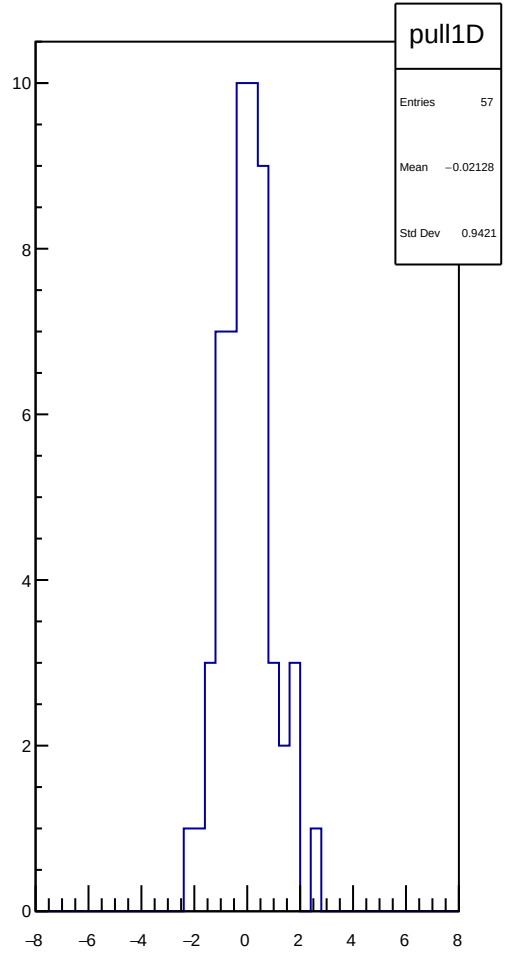

reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 69.46 / 56
p0 −0.0819 ± 0.02688
pull
Entries 57
Mean 1254
Std Dev 1263

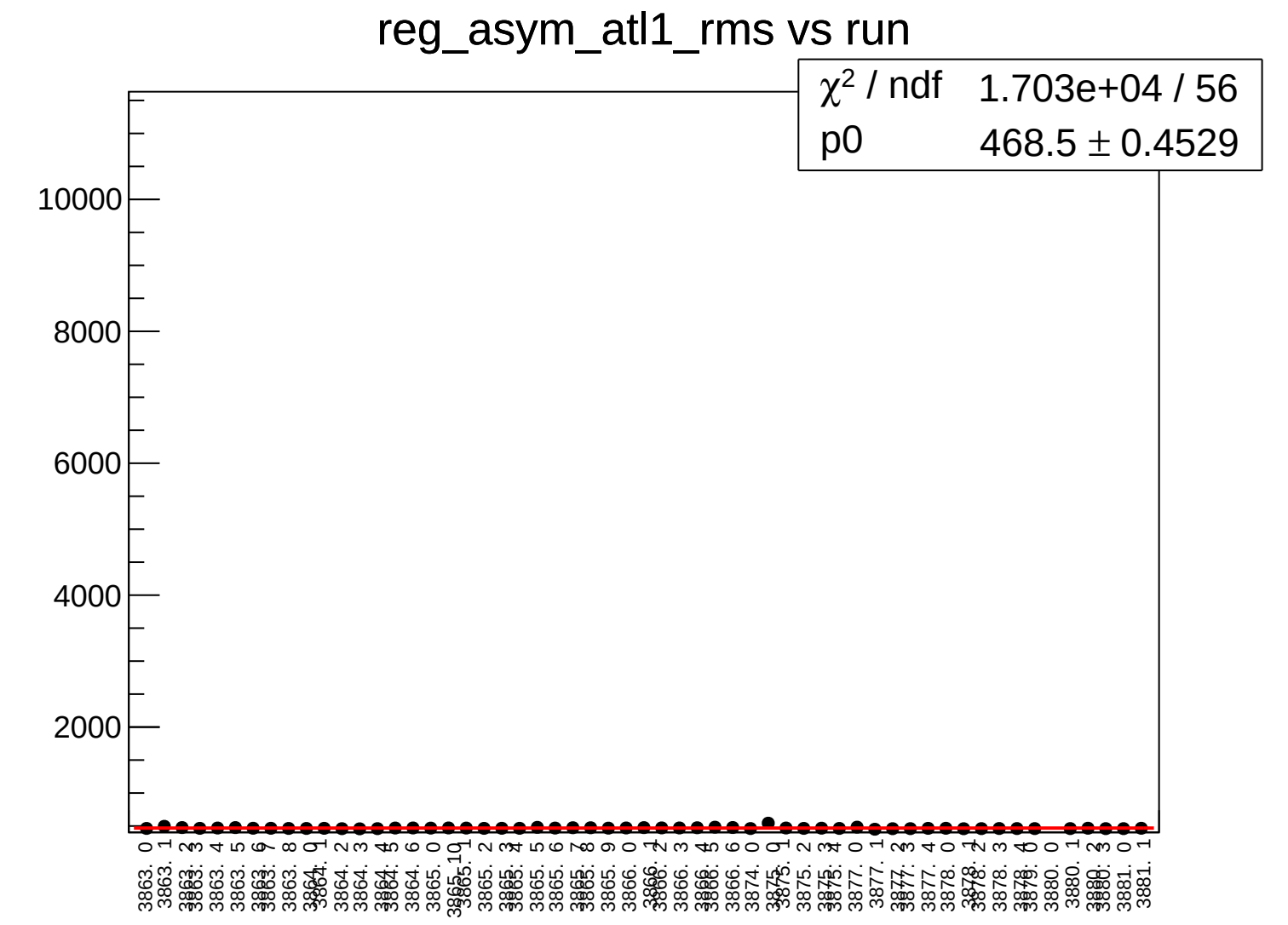

pull1D
Entries 57
Mean −0.0008779
Std Dev 1.104

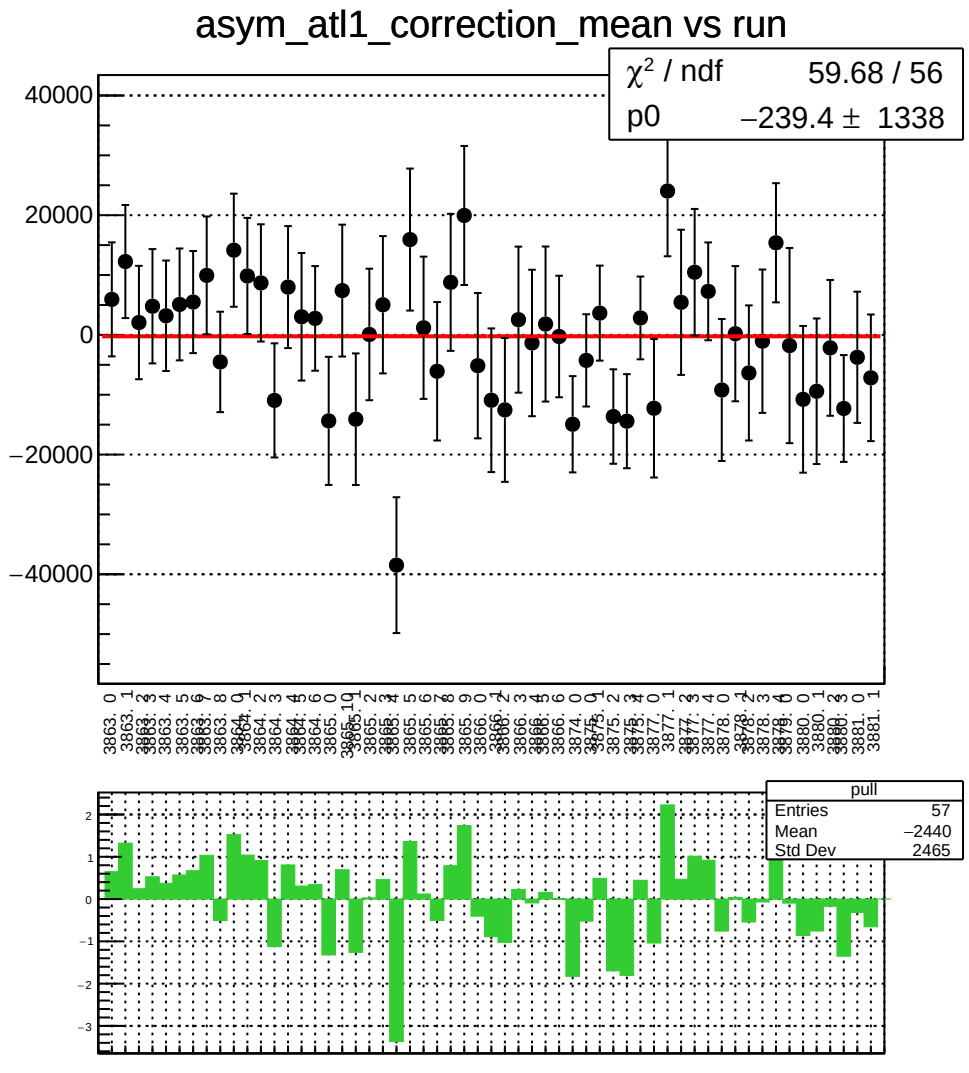

reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 58.97 / 56
p0 0.005184 ± 0.00472
pull
Entries 57
Mean 100.5
Std Dev 60.68

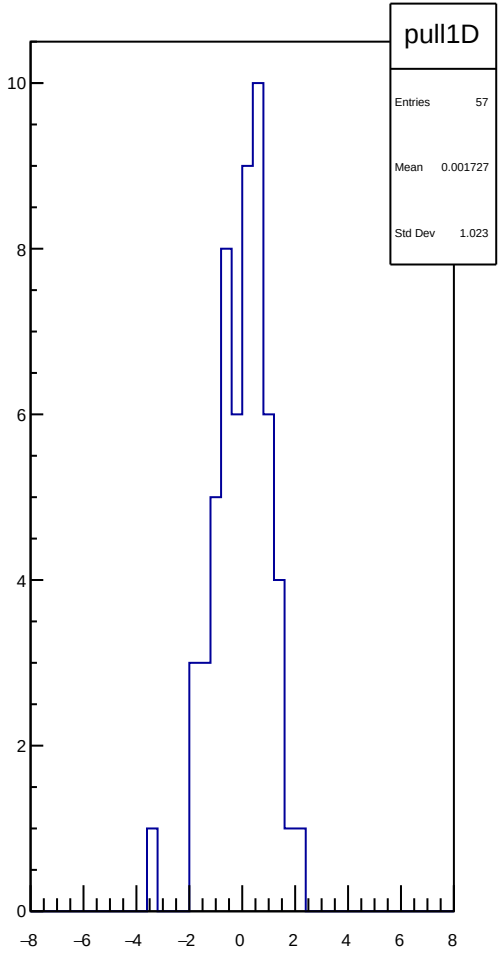

pull1D
Entries 57
Mean −0.01892
Std Dev 1.017

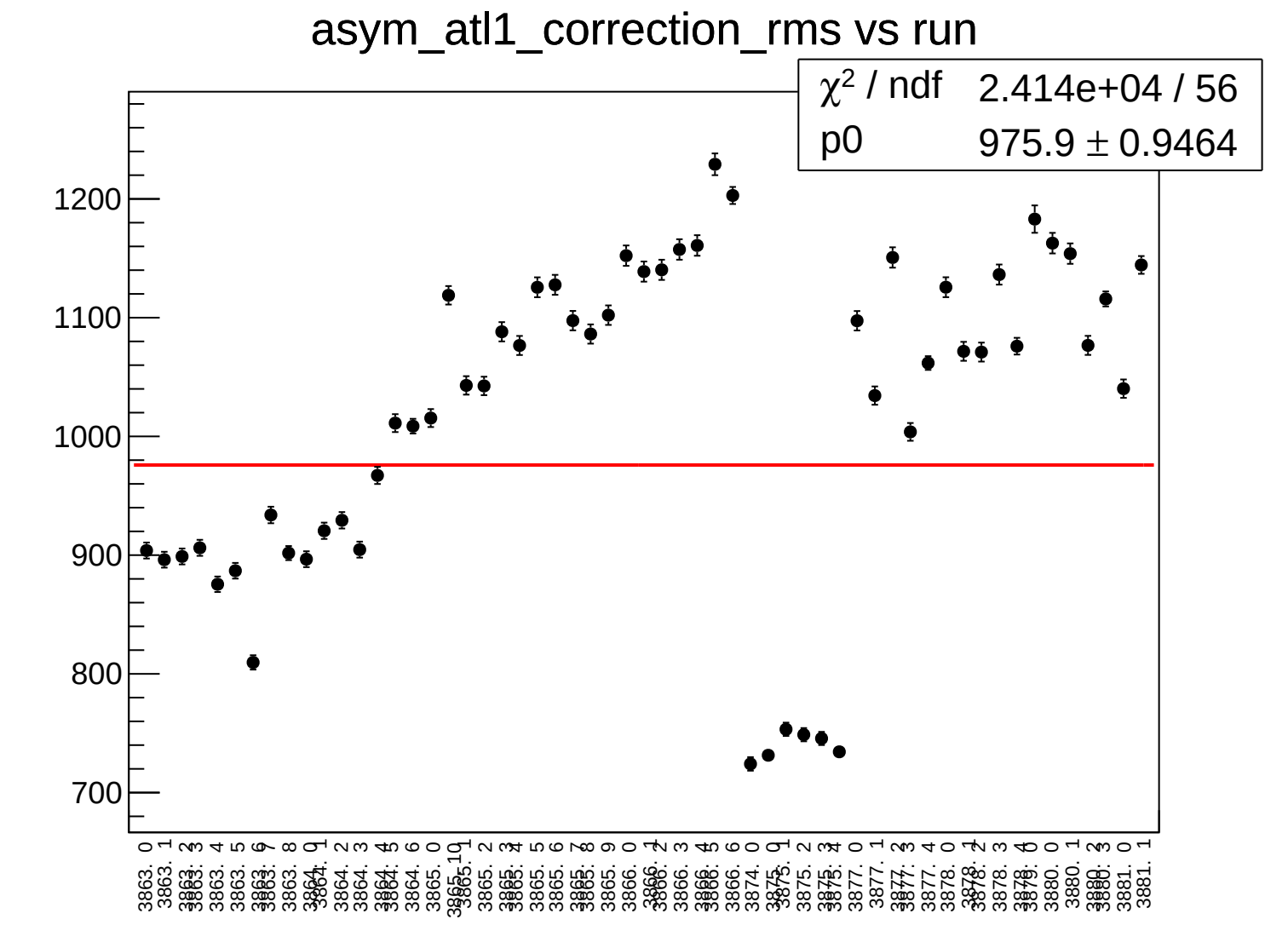

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 50.61 / 56
p0 1468 ± 640.4
pull
Entries 57
Mean −108.1
Std Dev 126.3

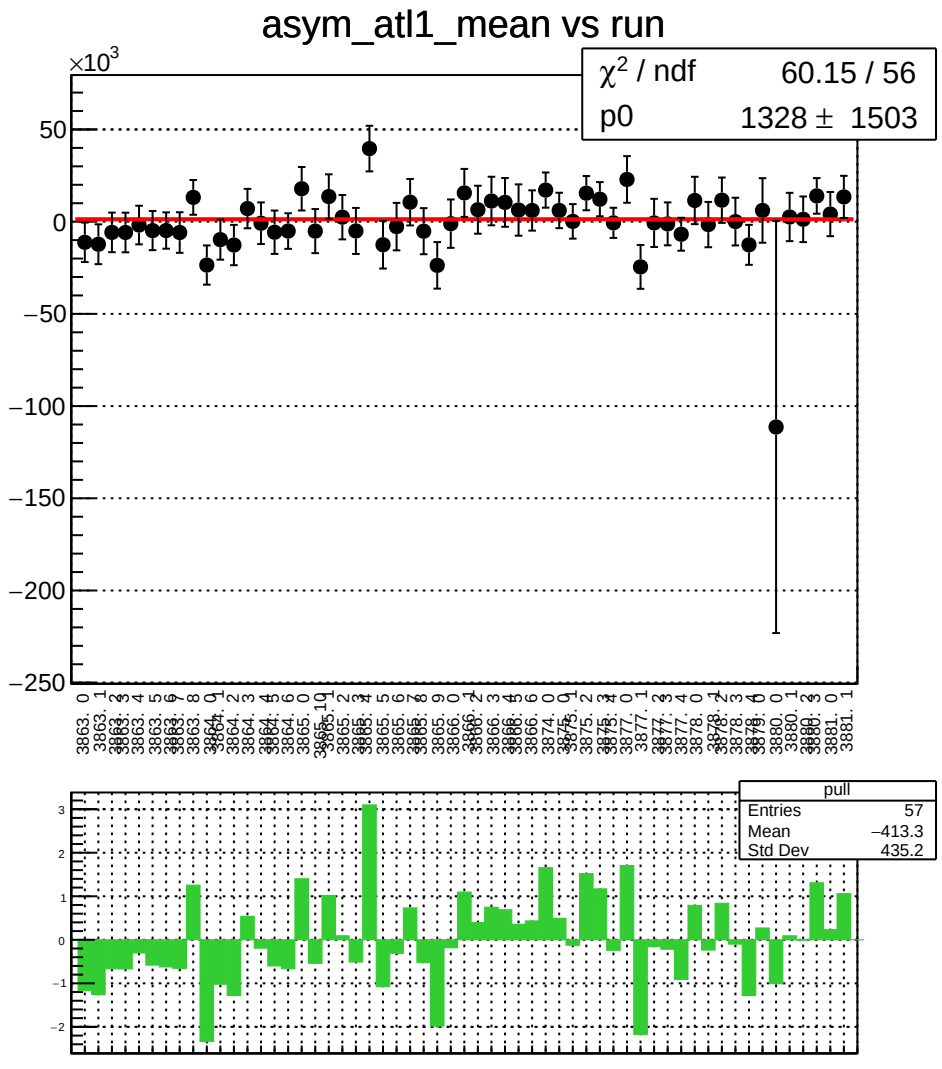

pull1D
Entries 57
Mean −0.02128
Std Dev 0.9421

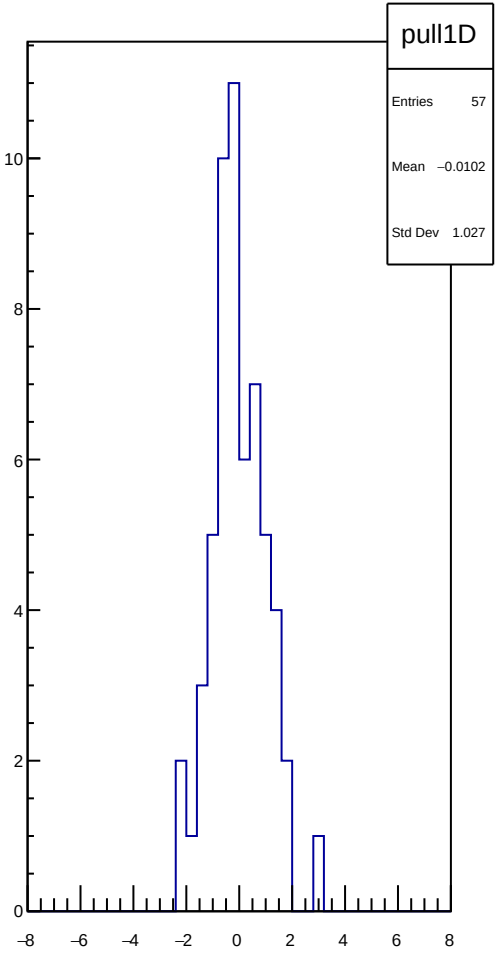

reg_asym_atl1_rms vs run
χ² / ndf 1.703e+04 / 56
p0 468.5 ± 0.4529
10000
8000
6000
4000
2000

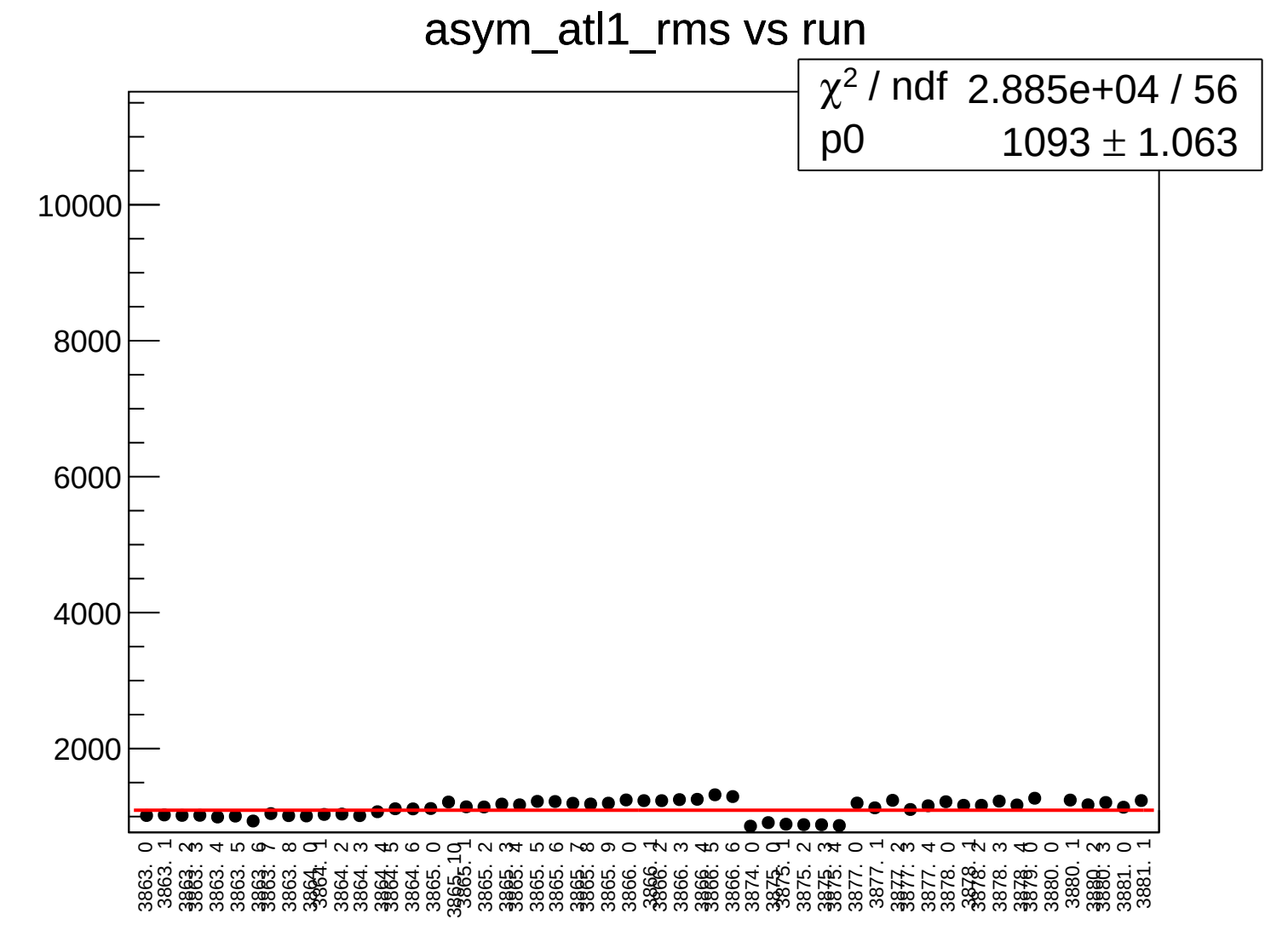

asym_atl1_correction_mean vs run
χ² / ndf 59.68 / 56
p0 −239.4 ± 1338
40000
20000
0
−20000
−40000
pull
Entries 57
Mean −2440
Std Dev 2465
2
1
0
−1
−2
−3

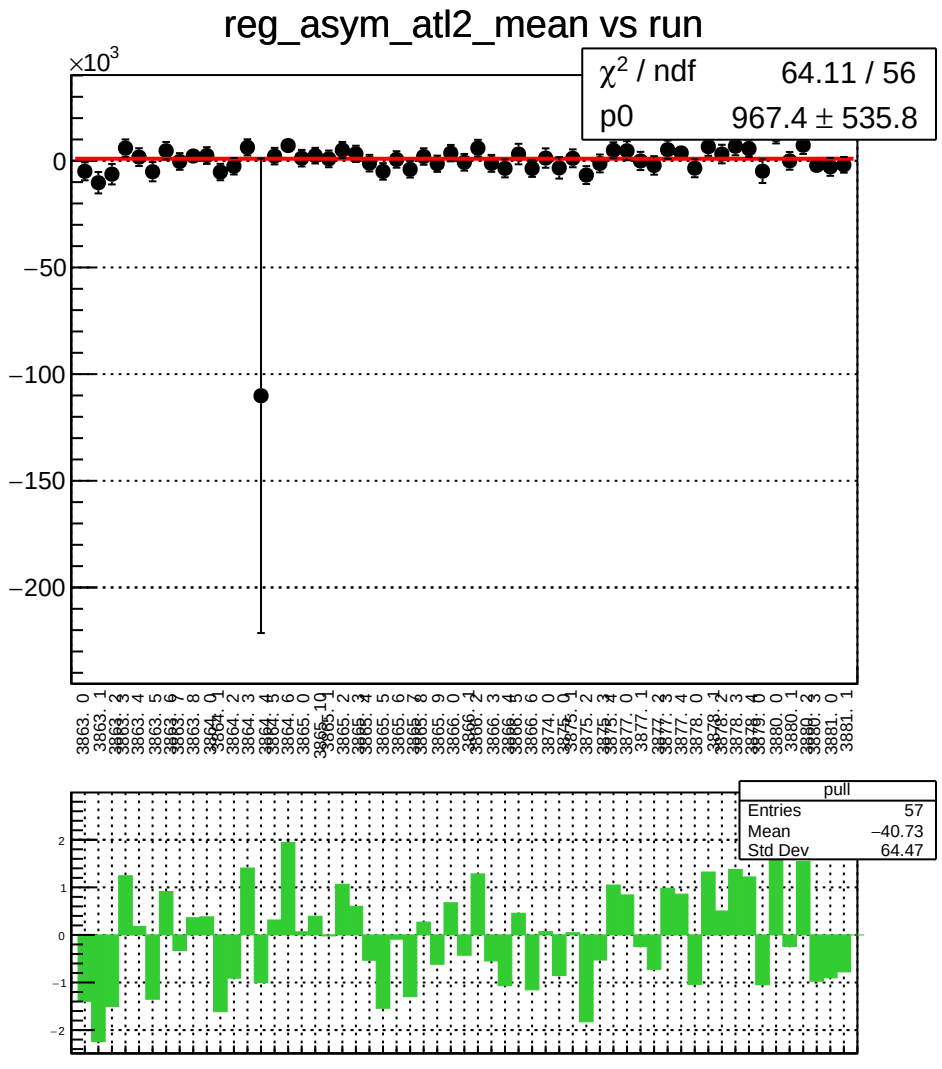

pull1D
Entries 57
Mean 0.001727
Std Dev 1.023
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

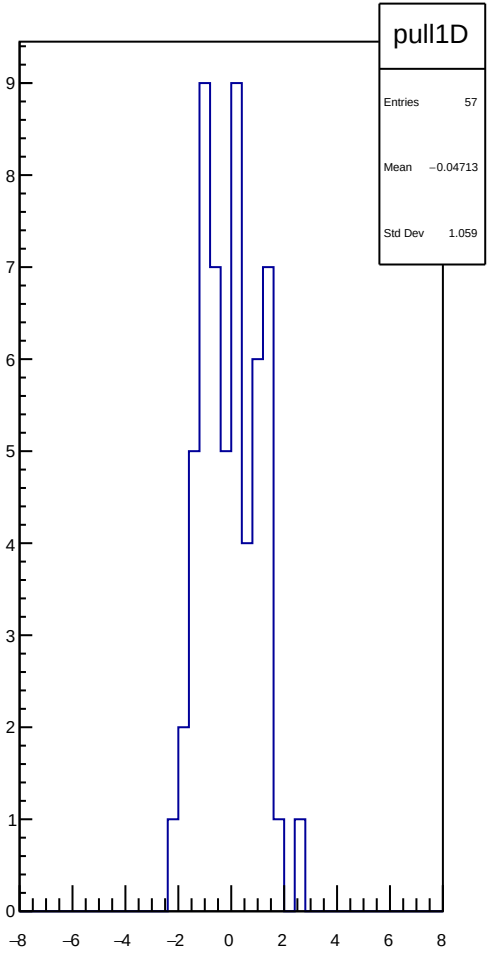

asym_atl1_correction_rms vs run
χ² / ndf 2.414e+04 / 56
p0 975.9 ± 0.9464
1200
1100
1000
900
800
700

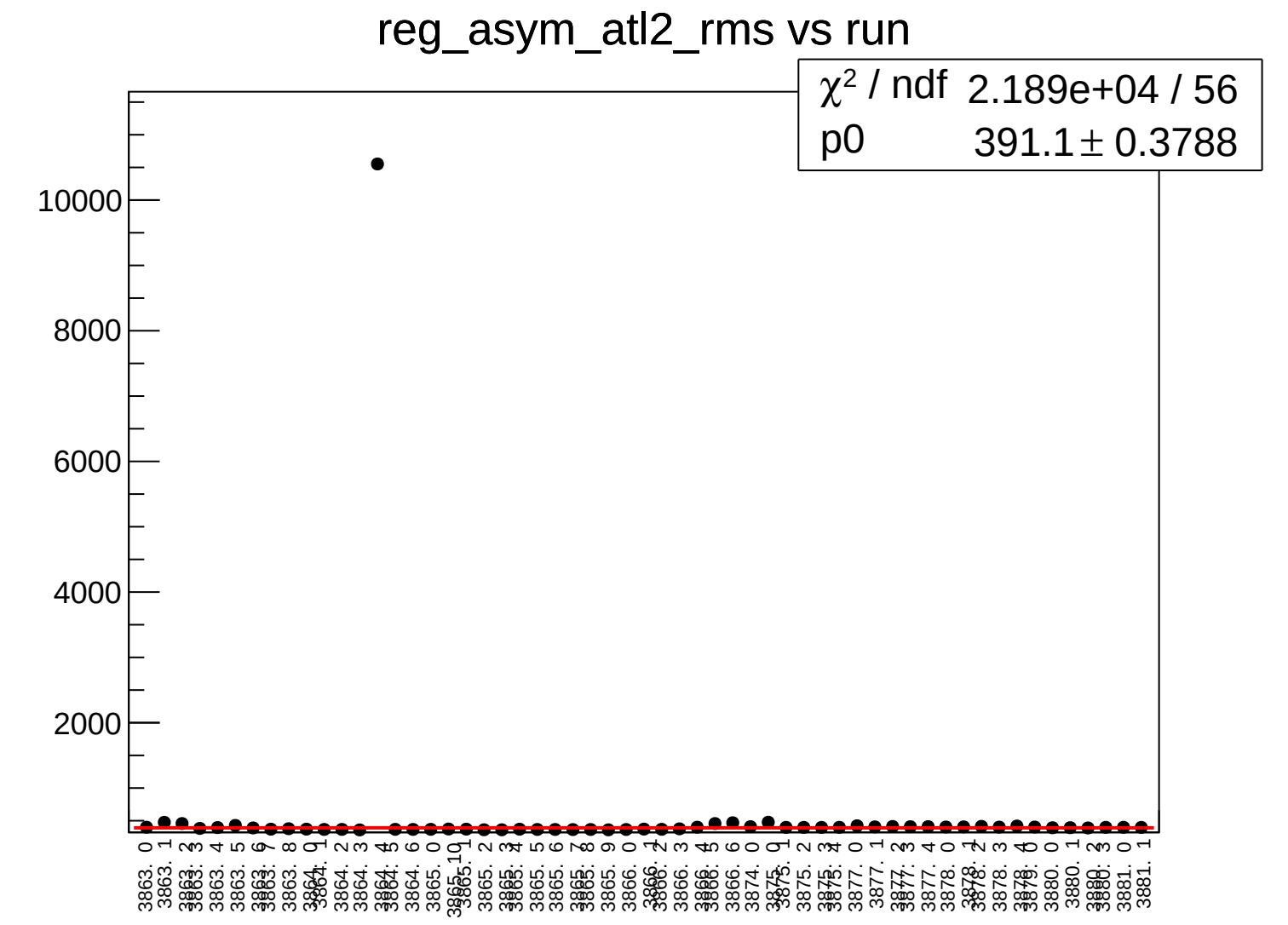

asym_atl1_mean vs run
χ² / ndf 60.15 / 56
p0 1328 ± 1503
×10³
pull
Entries 57
Mean −413.3
Std Dev 435.2

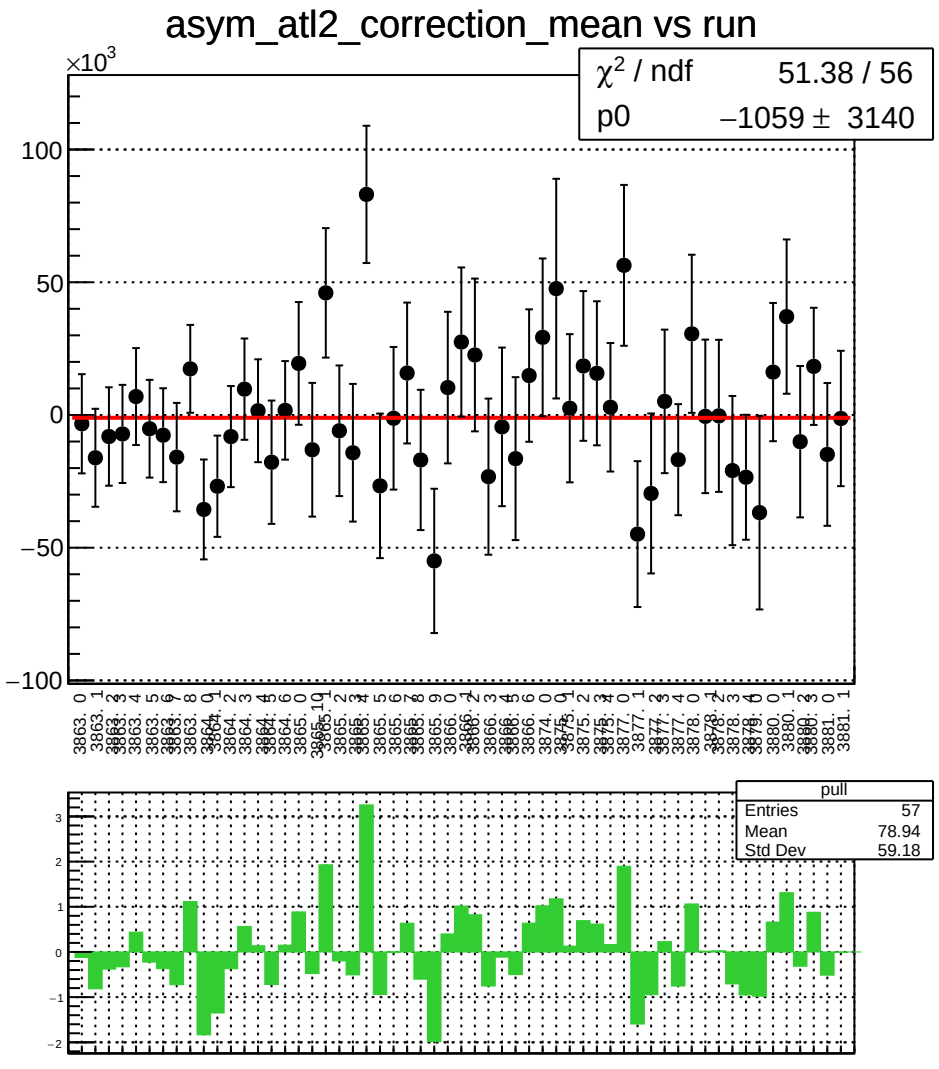

pull1D
Entries 57
Mean −0.0102
Std Dev 1.027

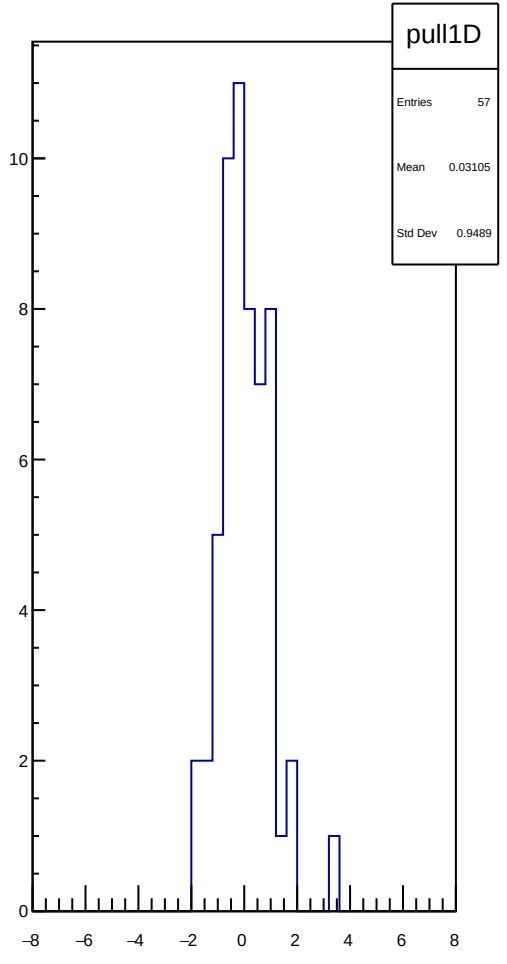

asym_atl1_rms vs run
χ² / ndf 2.885e+04 / 56
p0 1093 ± 1.063
10000
8000
6000
4000
2000

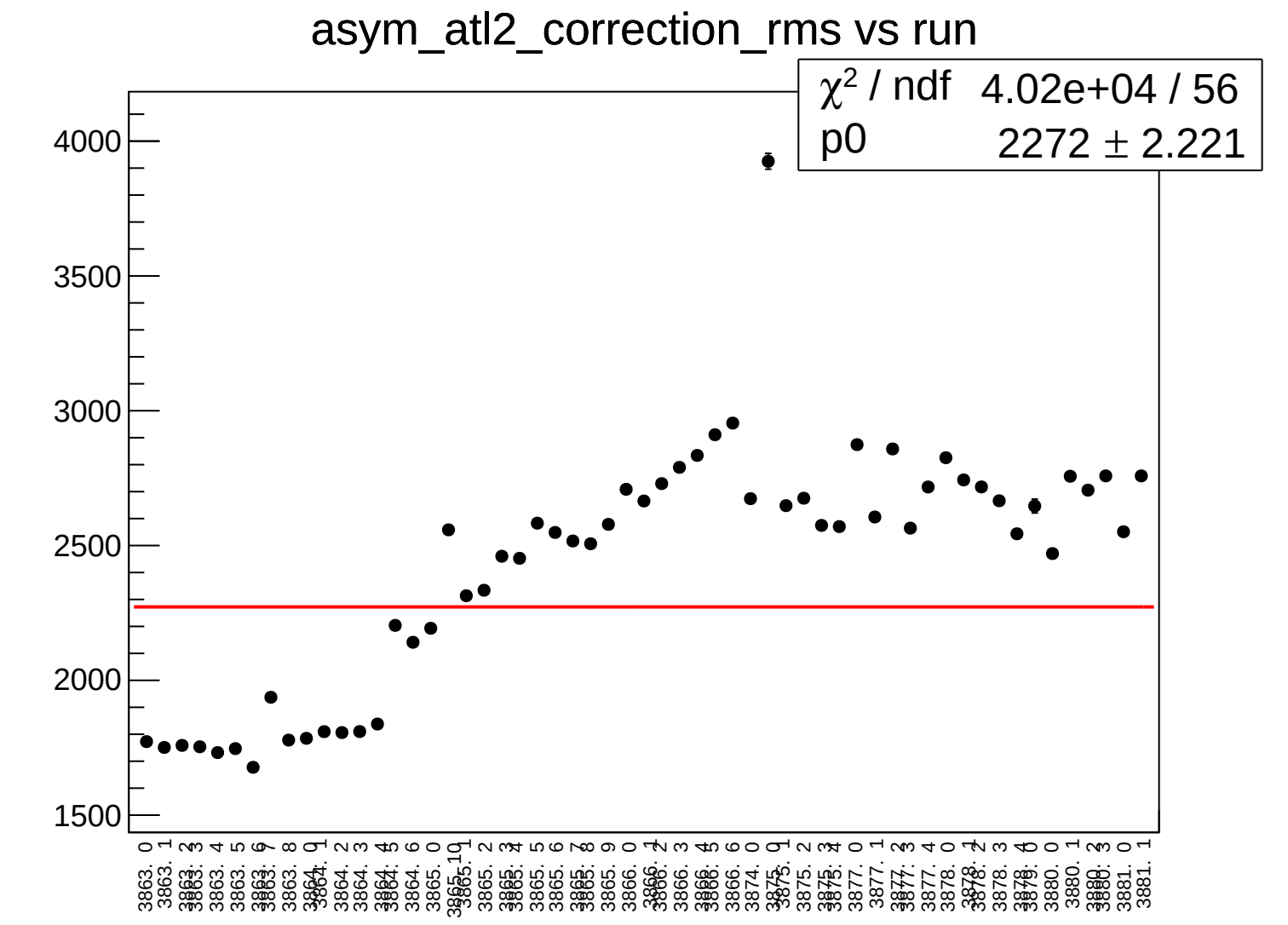

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 64.11 / 56
p0 967.4 ± 535.8
0
−50
−100
−150
−200
pull
Entries 57
Mean −40.73
Std Dev 64.47
2
1
0
−1
−2

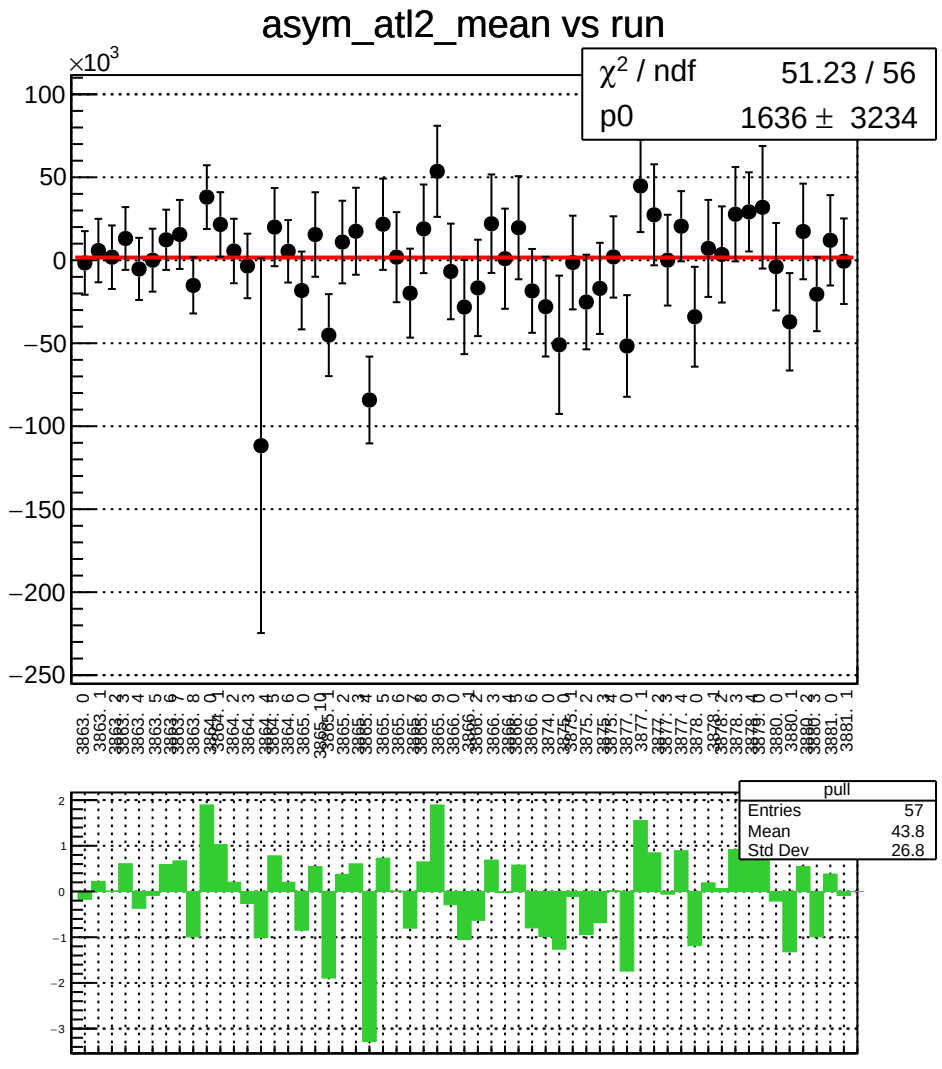

pull1D
Entries 57
Mean −0.04713
Std Dev 1.059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

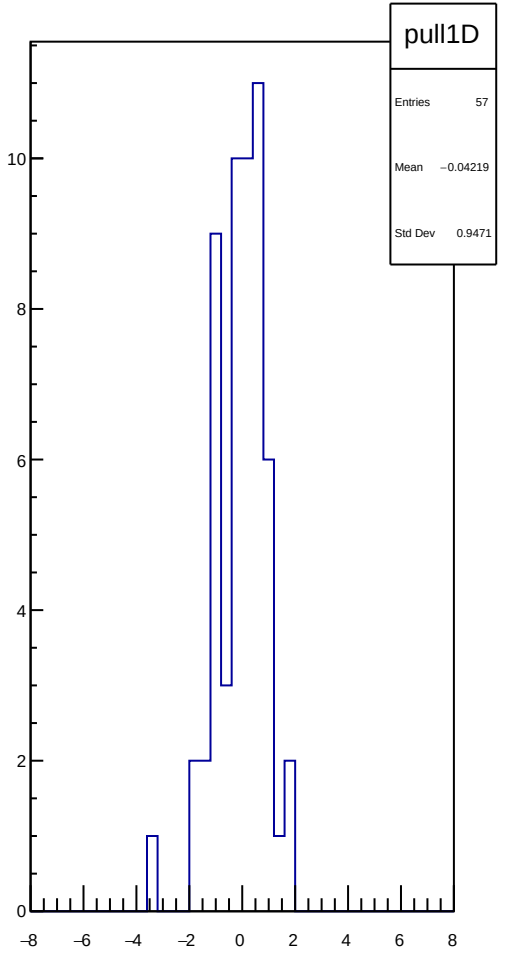

reg_asym_atl2_rms vs run
χ² / ndf 2.189e+04 / 56
p0 391.1 ± 0.3788
10000
8000
6000
4000
2000

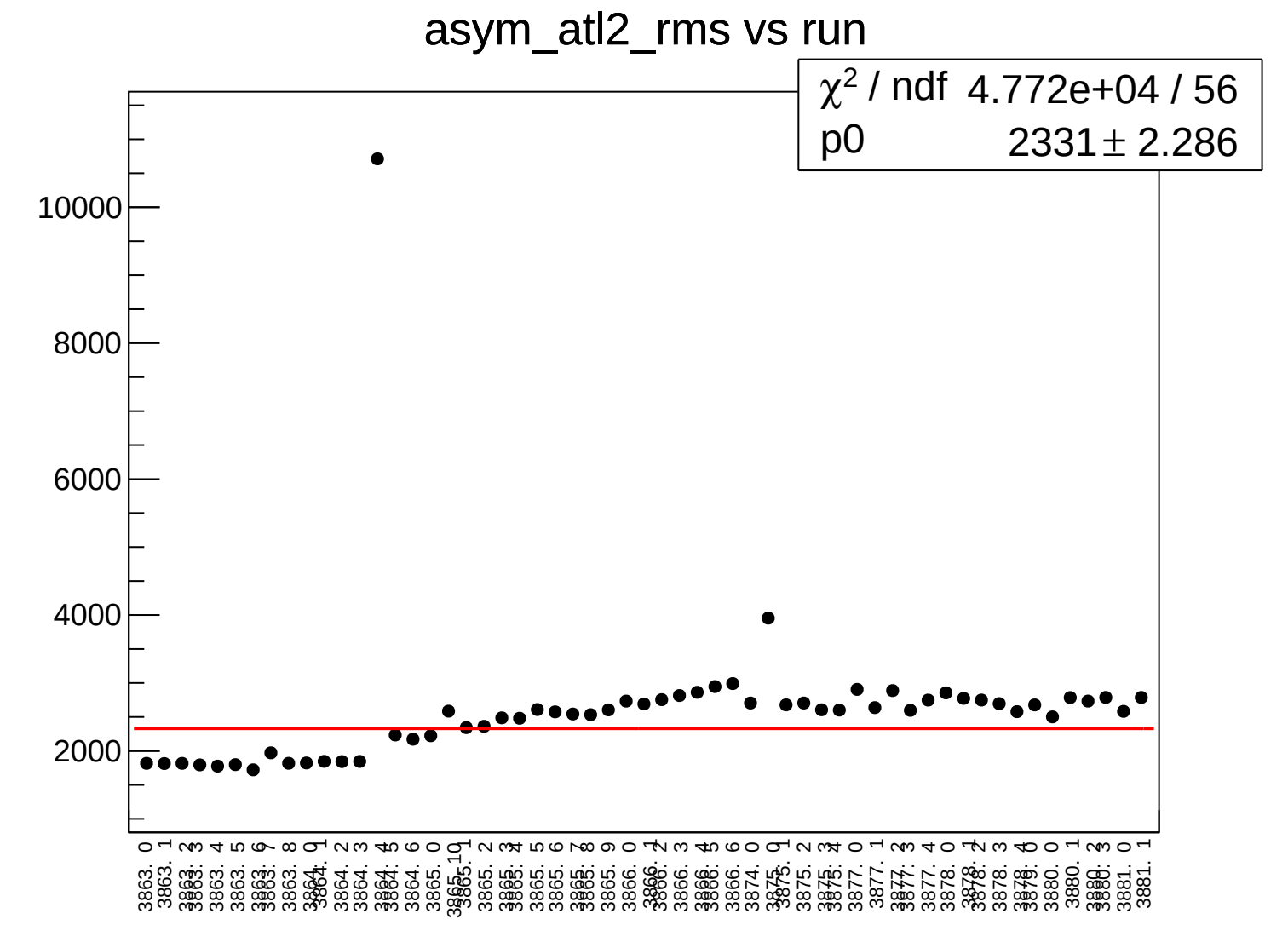

asym_atl2_correction_mean vs run
×10^3
χ^2 / ndf 51.38 / 56
p0 −1059 ± 3140
100
50
0
−50
−100
pull
Entries 57
Mean 78.94
Std Dev 59.18
3
2
1
0
−1
−2

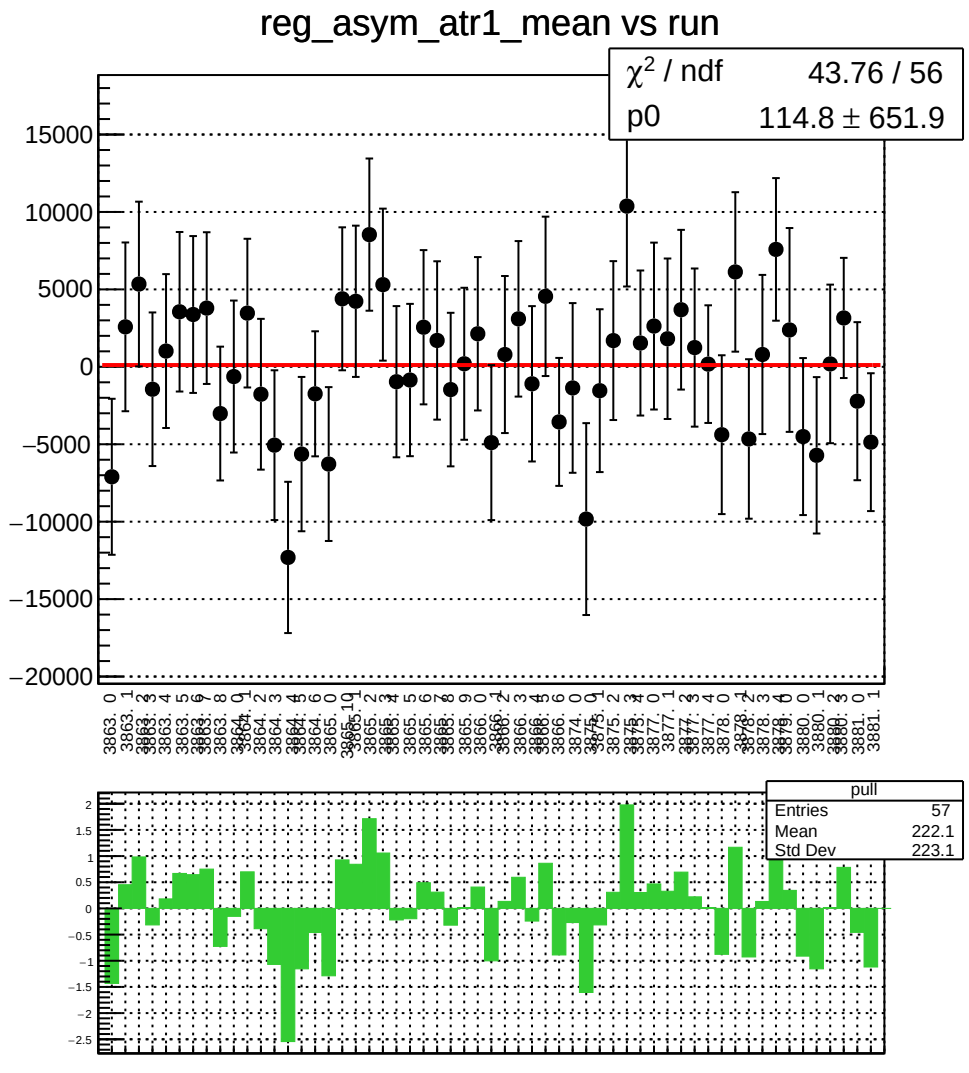

pull1D
Entries 57
Mean 0.03105
Std Dev 0.9489
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

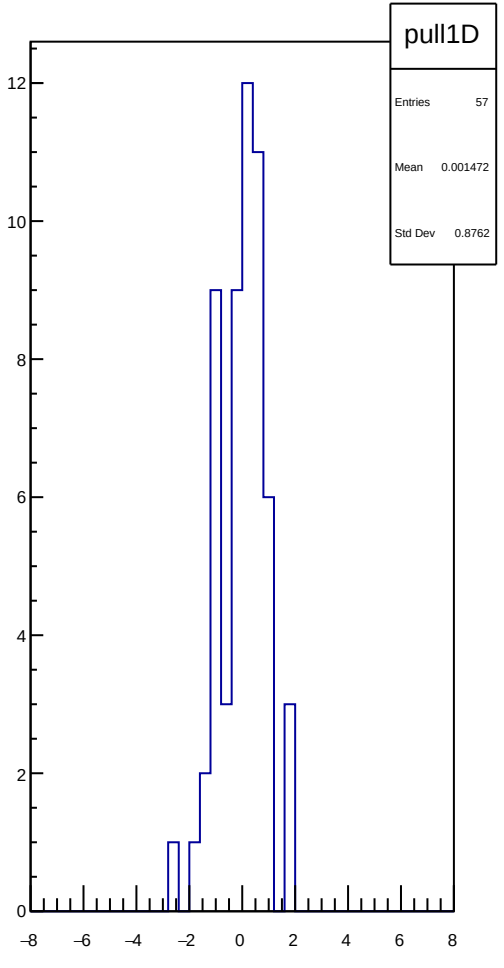

asym_atl2_correction_rms vs run
χ² / ndf 4.02e+04 / 56
p0 2272 ± 2.221
4000
3500
3000
2500
2000
1500

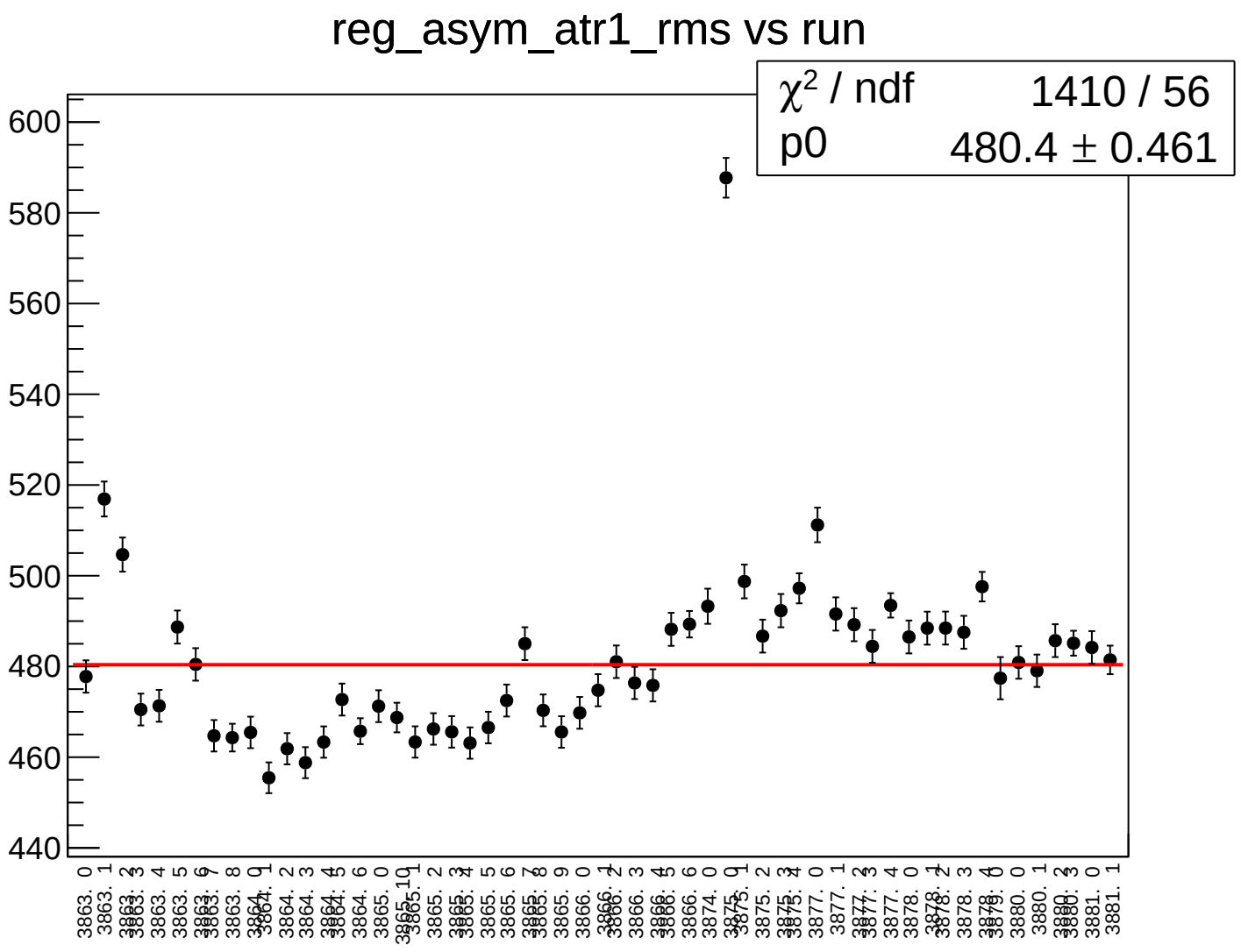

asym_atl2_mean vs run
×10^3
χ² / ndf 51.23 / 56
p0 1636 ± 3234
pull
Entries 57
Mean 43.8
Std Dev 26.8

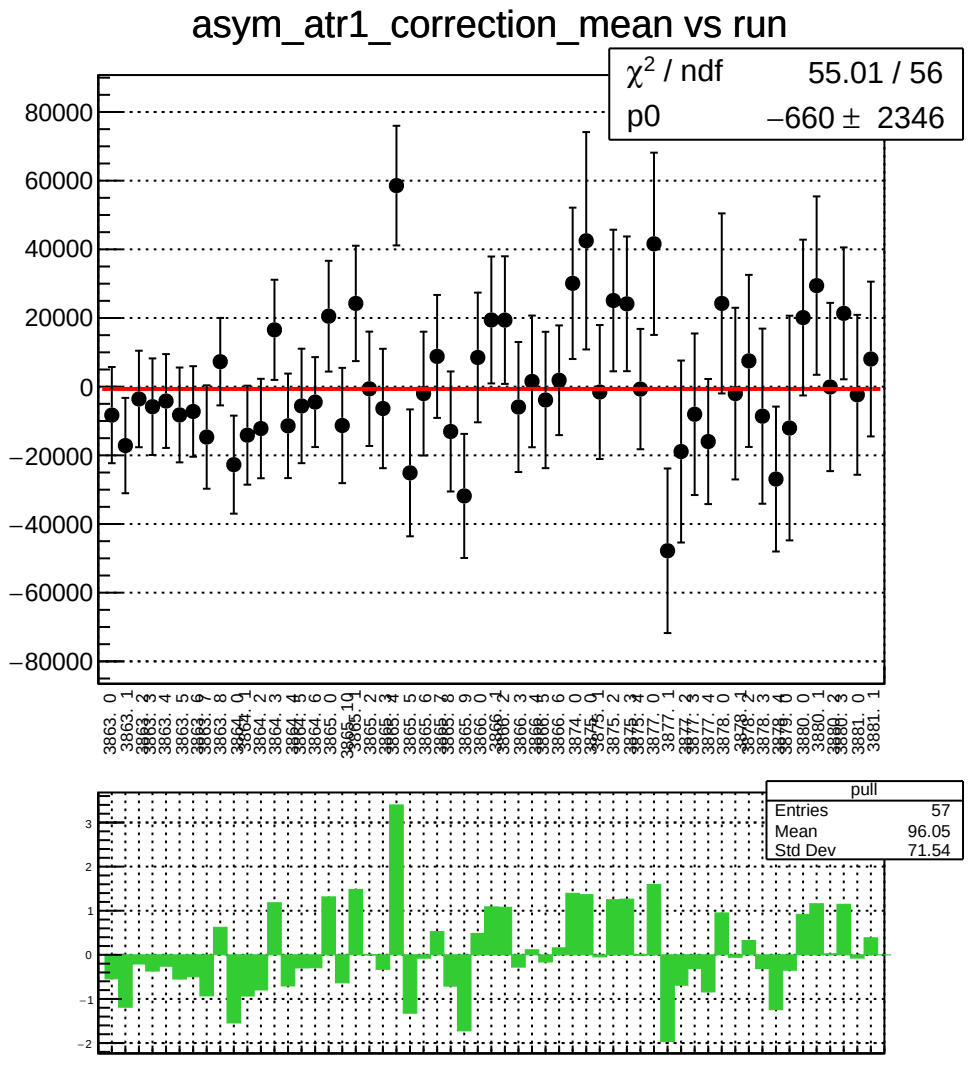

pull1D
Entries 57
Mean −0.04219
Std Dev 0.9471

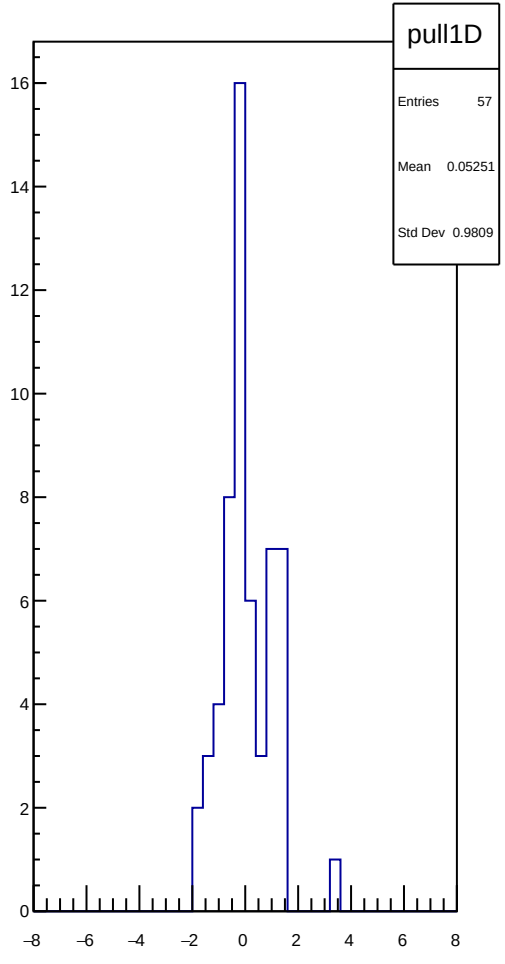

asym_atl2_rms vs run
χ² / ndf 4.772e+04 / 56
p0 2331 ± 2.286
10000
8000
6000
4000
2000

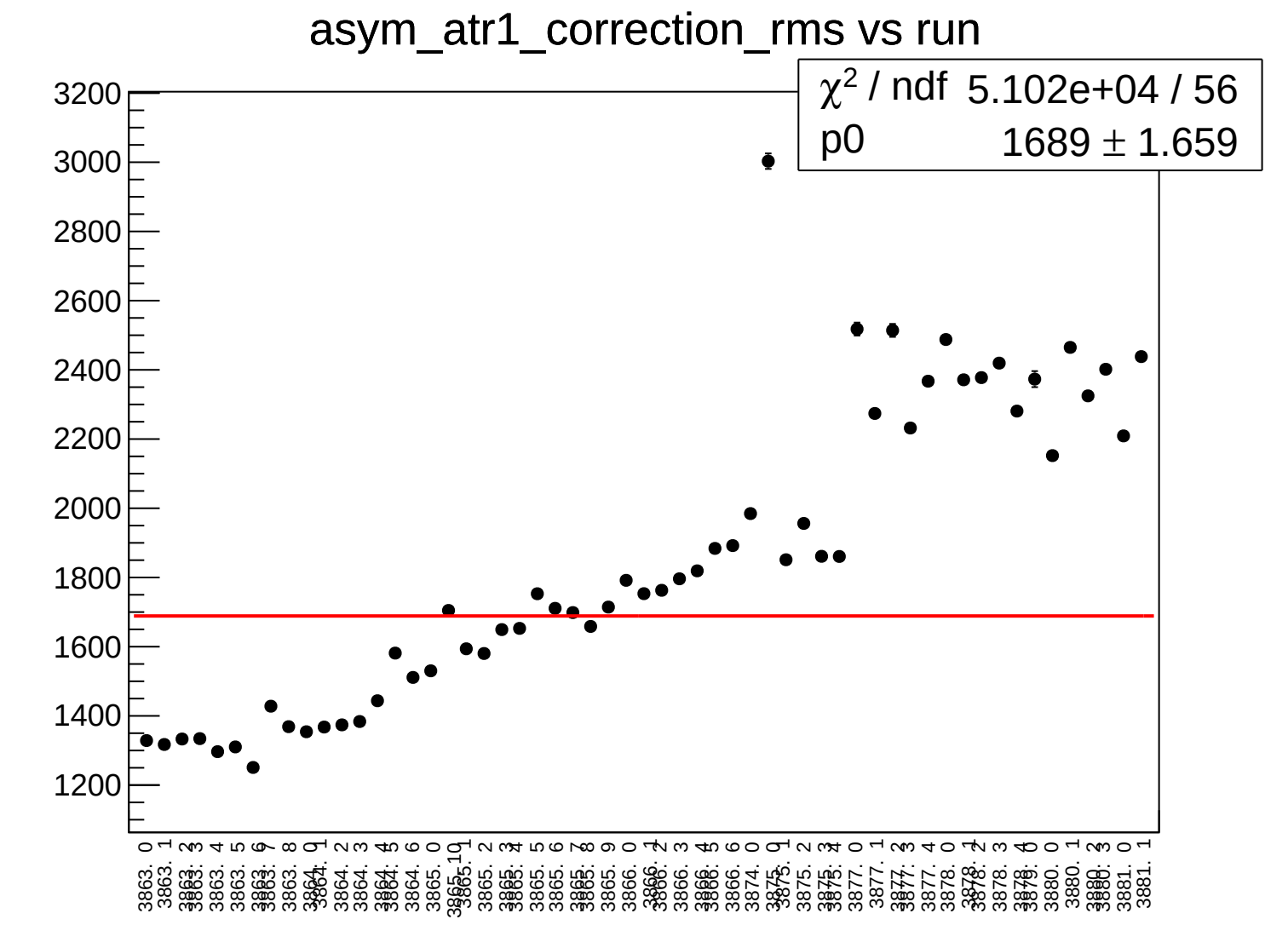

reg_asym_atr1_mean vs run
χ^2 / ndf 43.76 / 56
p0 114.8 ± 651.9
pull
Entries 57
Mean 222.1
Std Dev 223.1

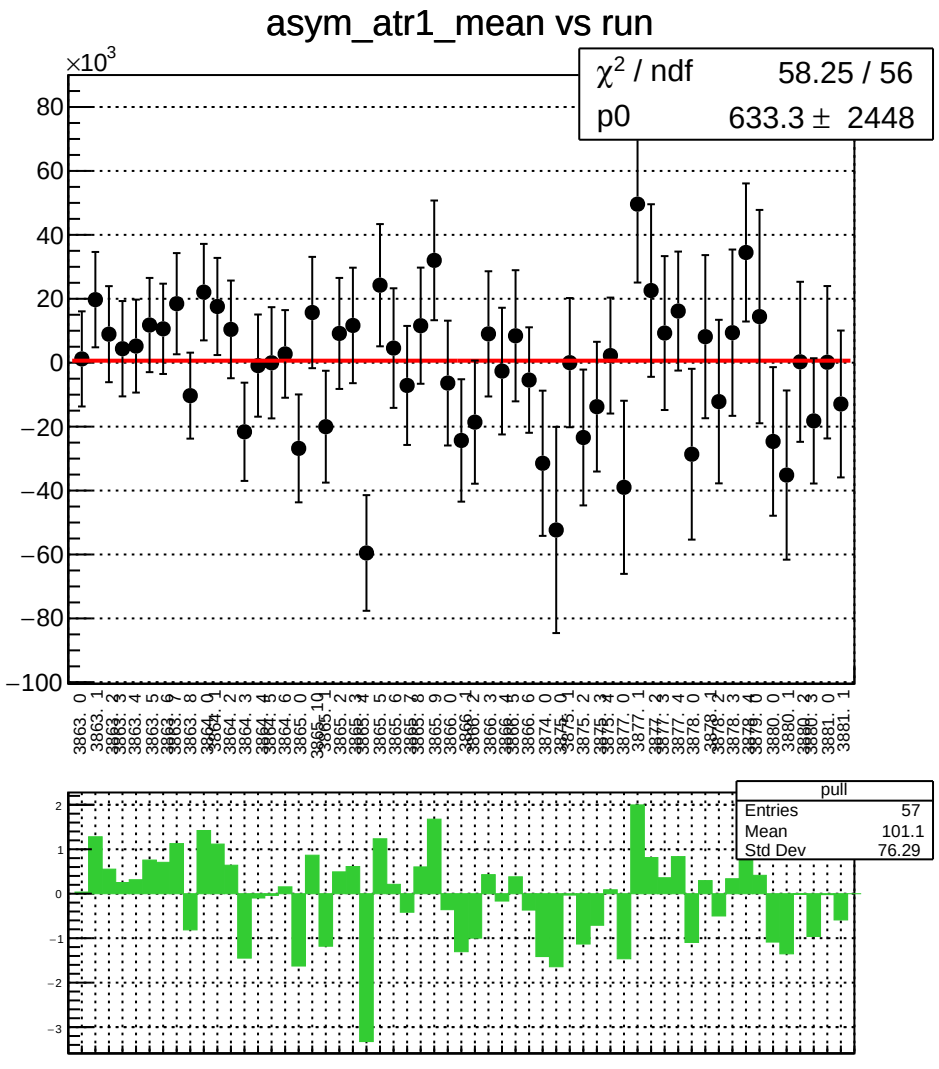

pull1D
Entries 57
Mean 0.001472
Std Dev 0.8762

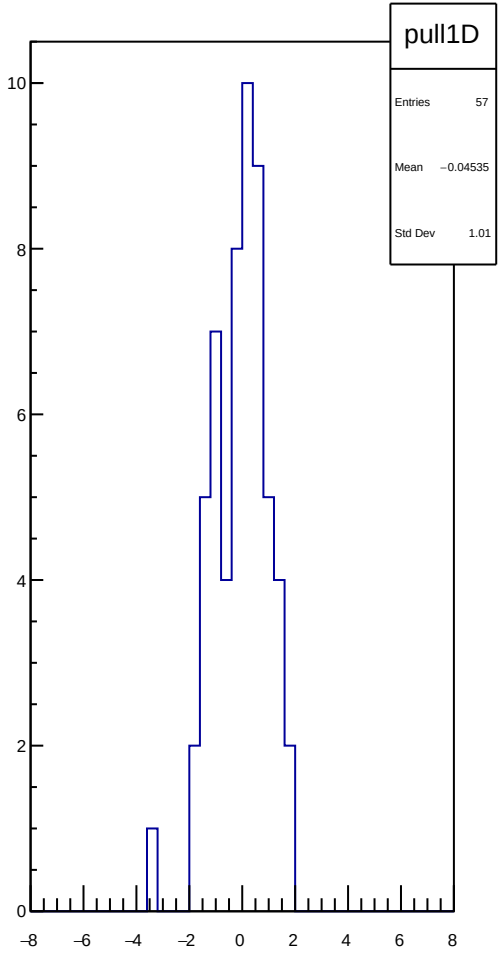

reg_asym_atr1_rms vs run
χ² / ndf 1410 / 56
p0 480.4 ± 0.461
600
580
560
540
520
500
480
460
440

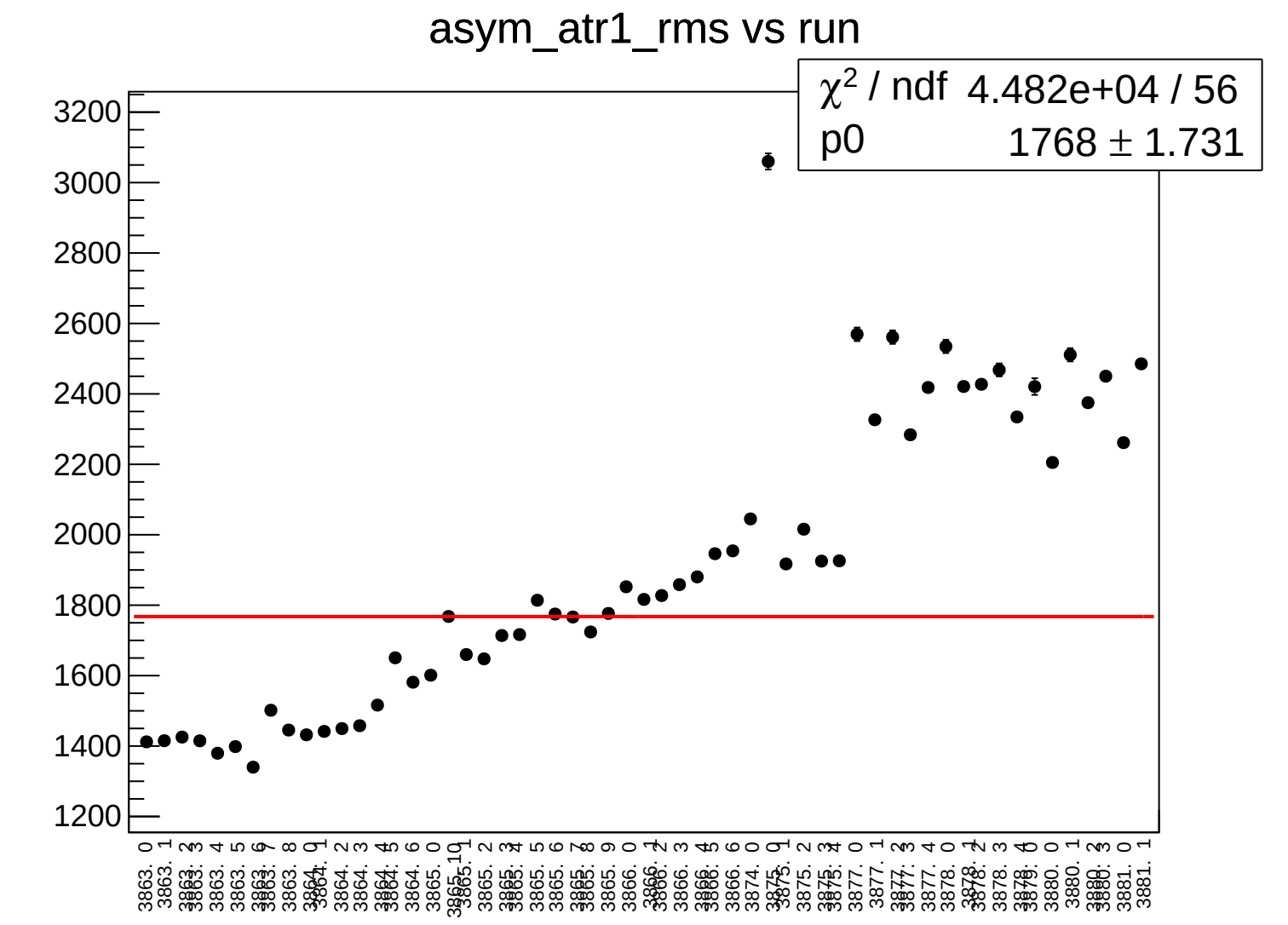

asym_atr1_correction_mean vs run
χ² / ndf 55.01 / 56
p0 −660 ± 2346
pull
Entries 57
Mean 96.05
Std Dev 71.54

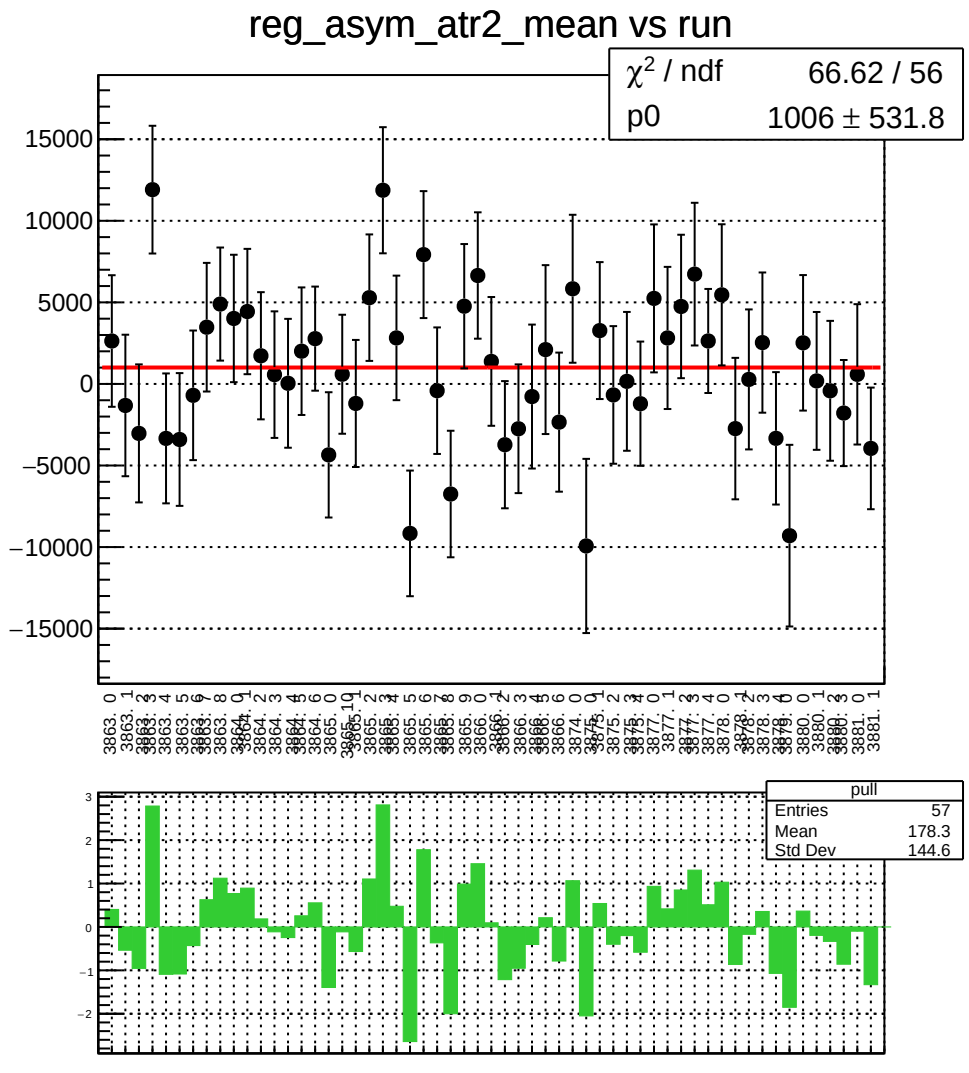

pull1D
Entries 57
Mean 0.05251
Std Dev 0.9809

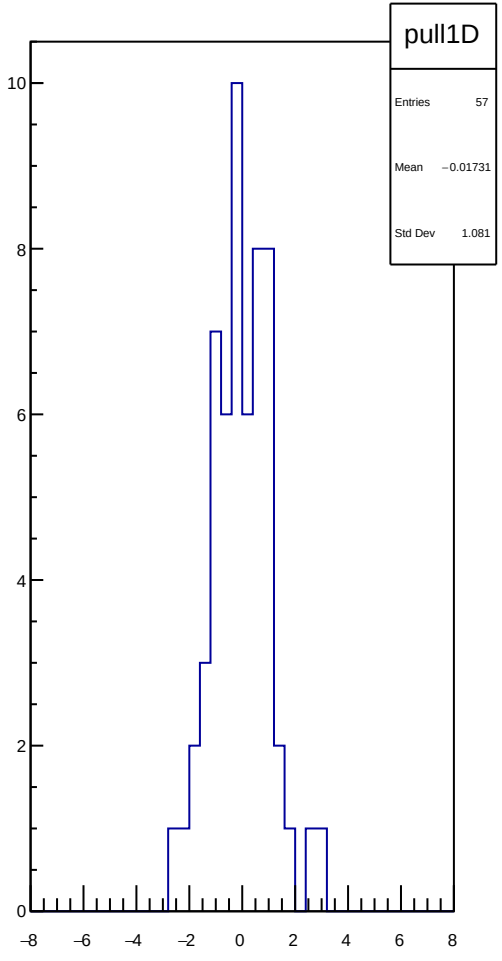

asym_atr1_correction_rms vs run
χ² / ndf 5.102e+04 / 56
p0 1689 ± 1.659
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

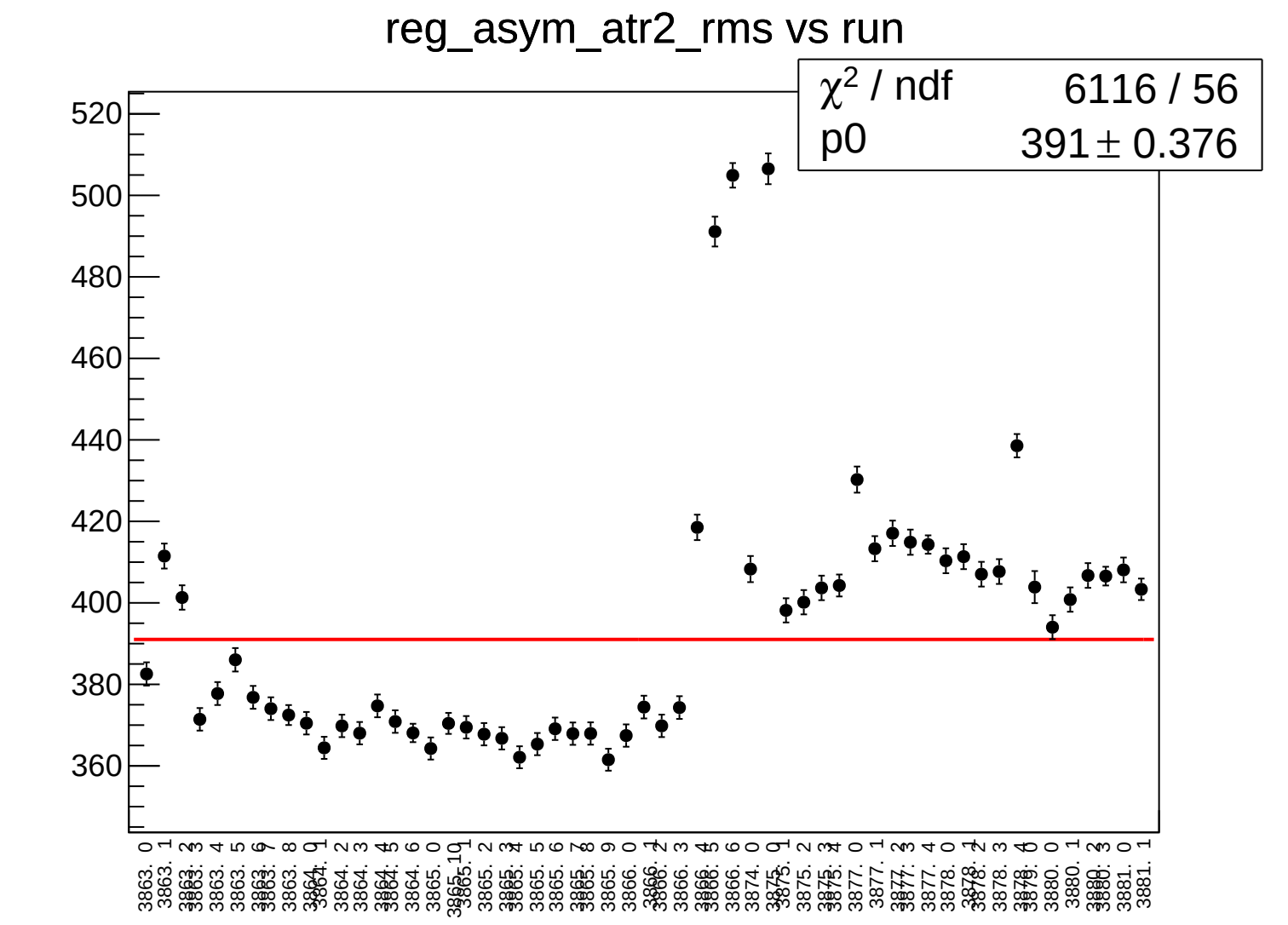

asym_atr1_mean vs run
×10^3
χ² / ndf 58.25 / 56
p0 633.3 ± 2448
pull
Entries 57
Mean 101.1
Std Dev 76.29

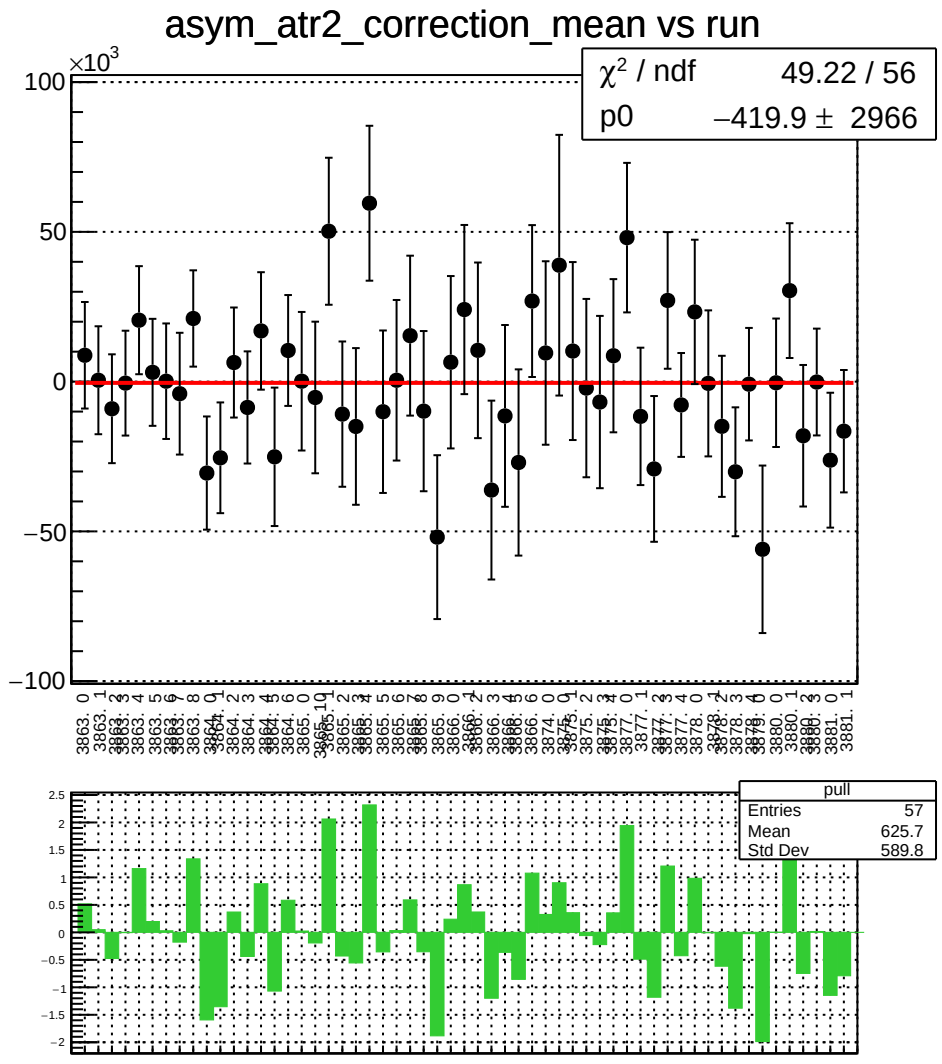

pull1D
Entries 57
Mean −0.04535
Std Dev 1.01

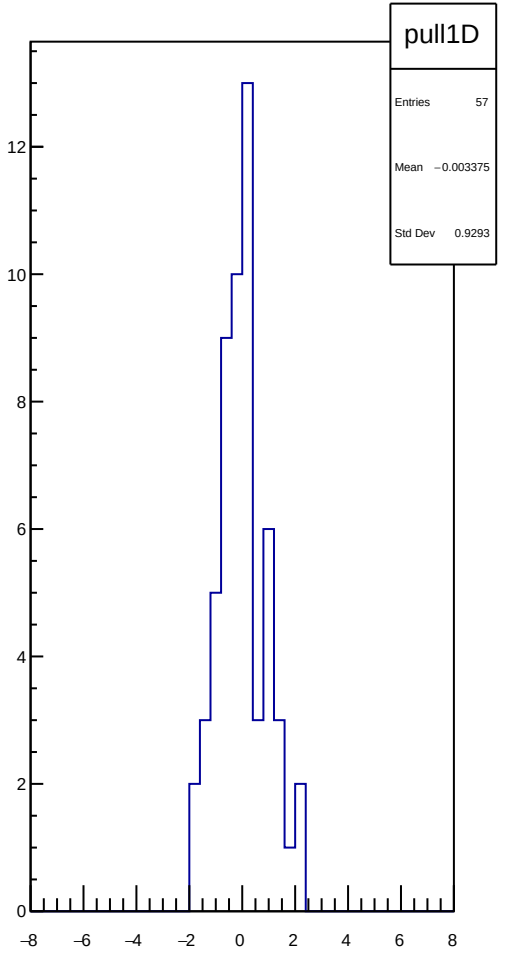

asym_atr1_rms vs run
χ^2 / ndf 4.482e+04 / 56
p0 1768 ± 1.731
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

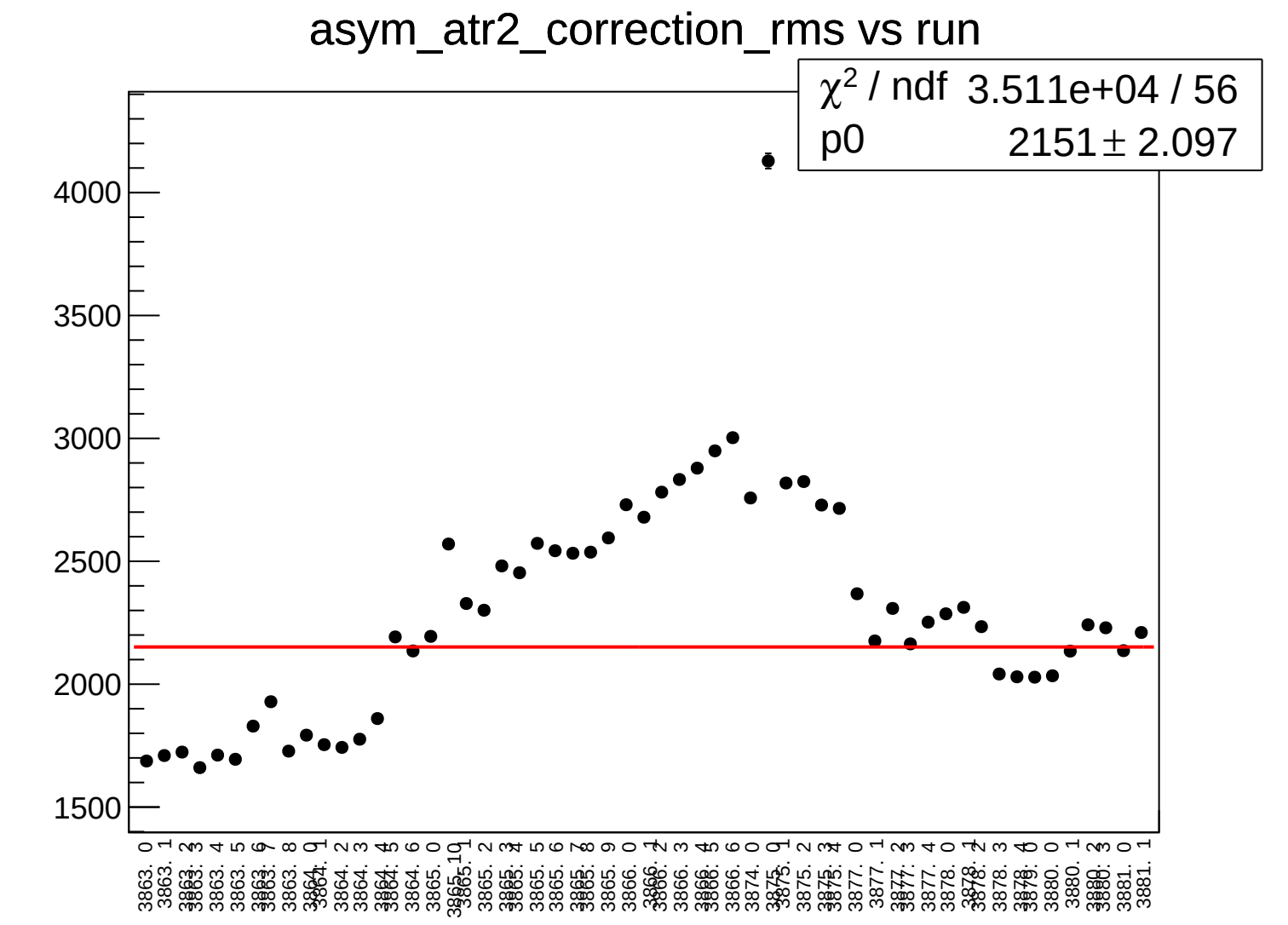

reg_asym_atr2_mean vs run
χ² / ndf 66.62 / 56
p0 1006 ± 531.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 57
Mean 178.3
Std Dev 144.6
3
2
1
0
−1
−2

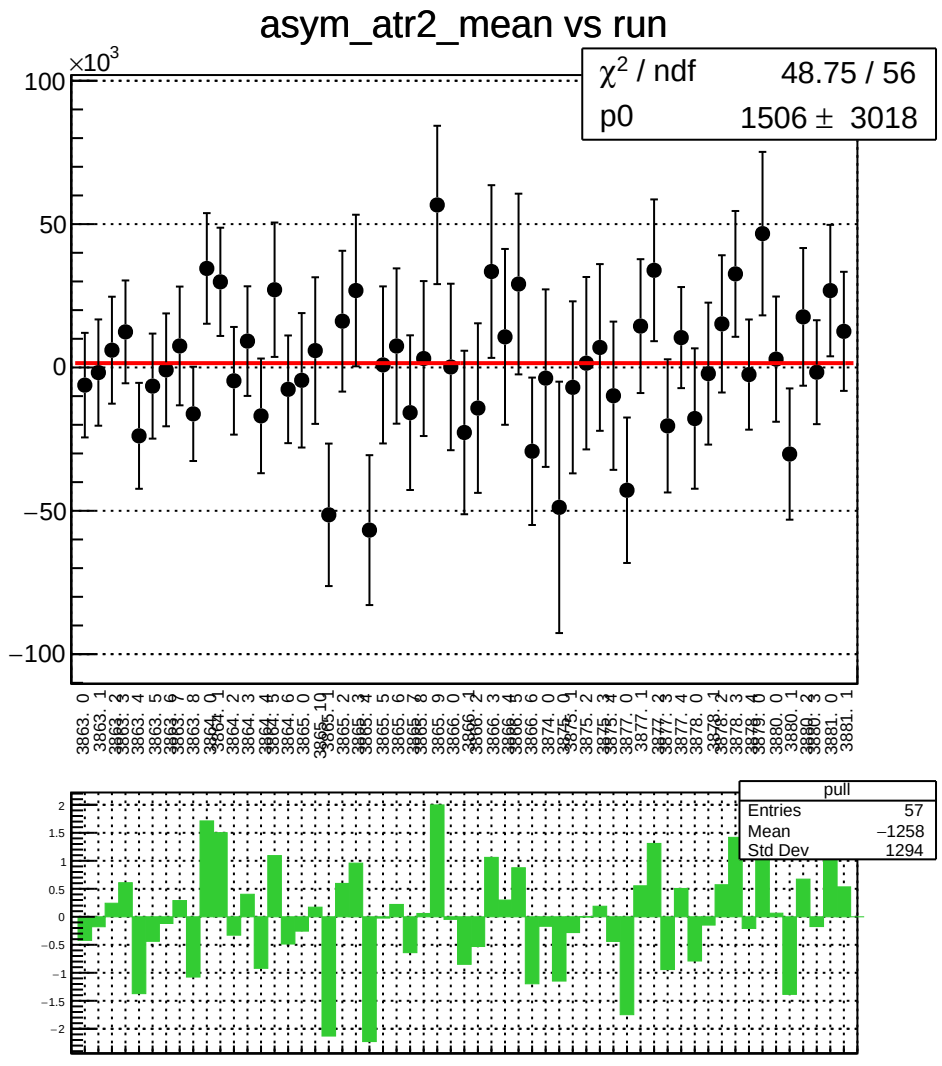

pull1D
Entries 57
Mean −0.01731
Std Dev 1.081
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

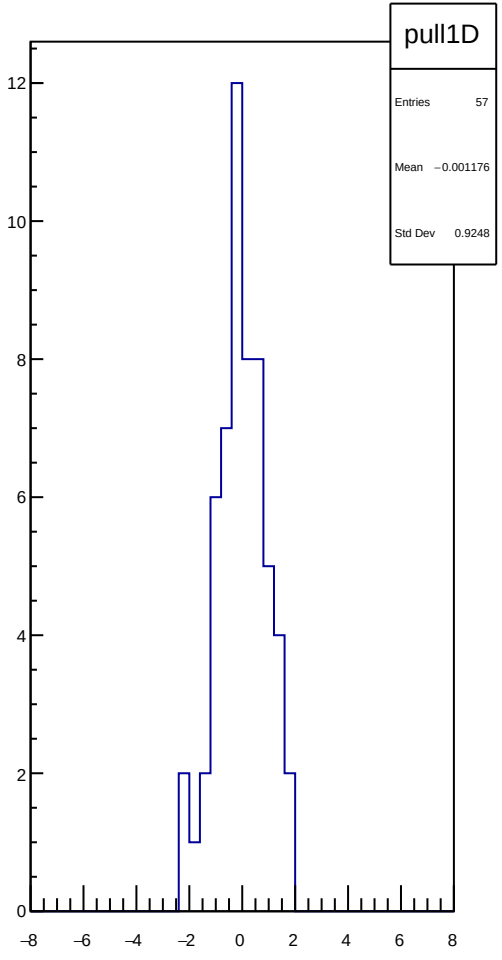

reg_asym_atr2_rms vs run
χ^2 / ndf 6116 / 56
p0 391 ± 0.376
520
500
480
460
440
420
400
380
360

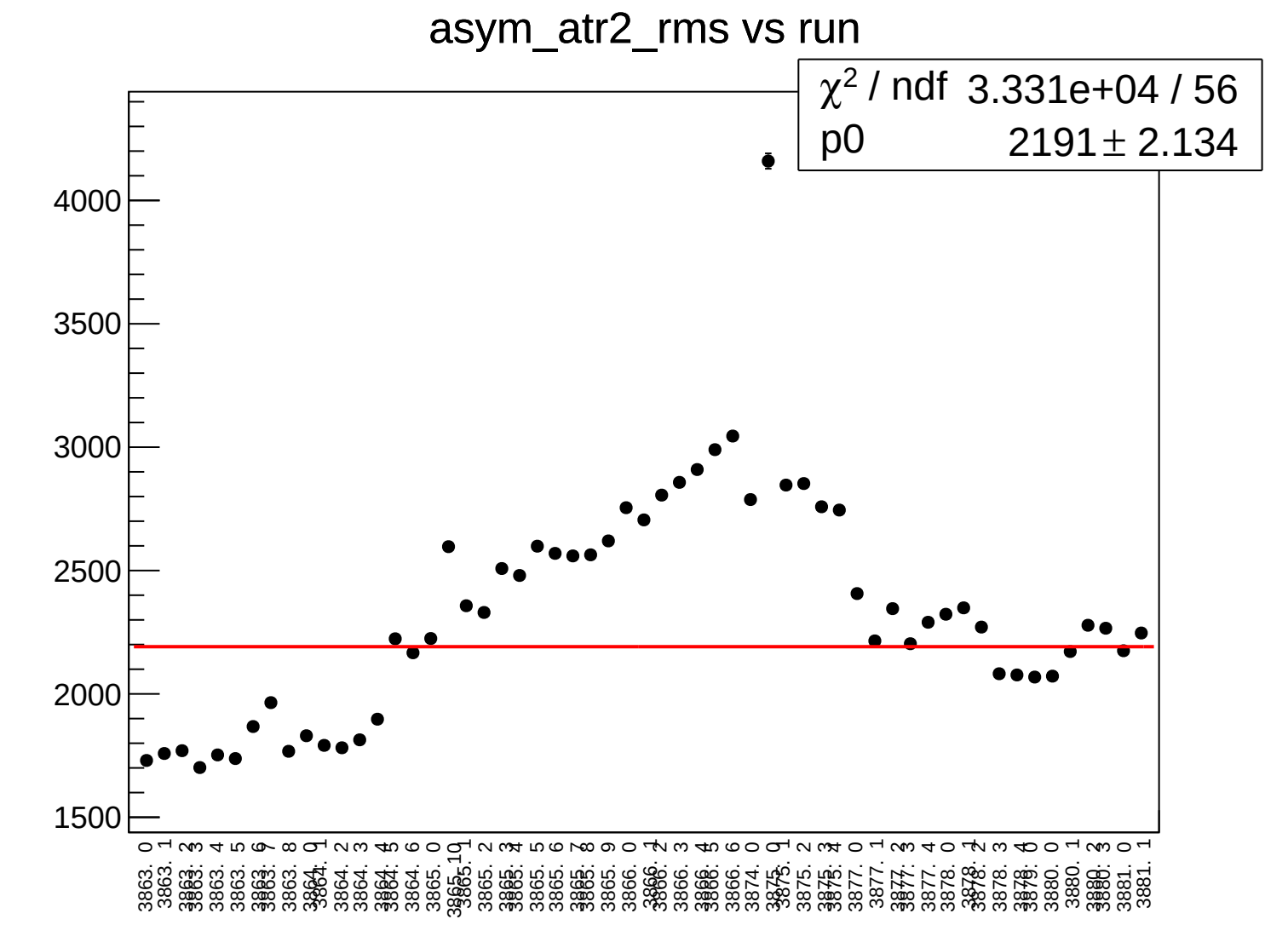

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 49.22 / 56
p0 −419.9 ± 2966
pull
Entries 57
Mean 625.7
Std Dev 589.8

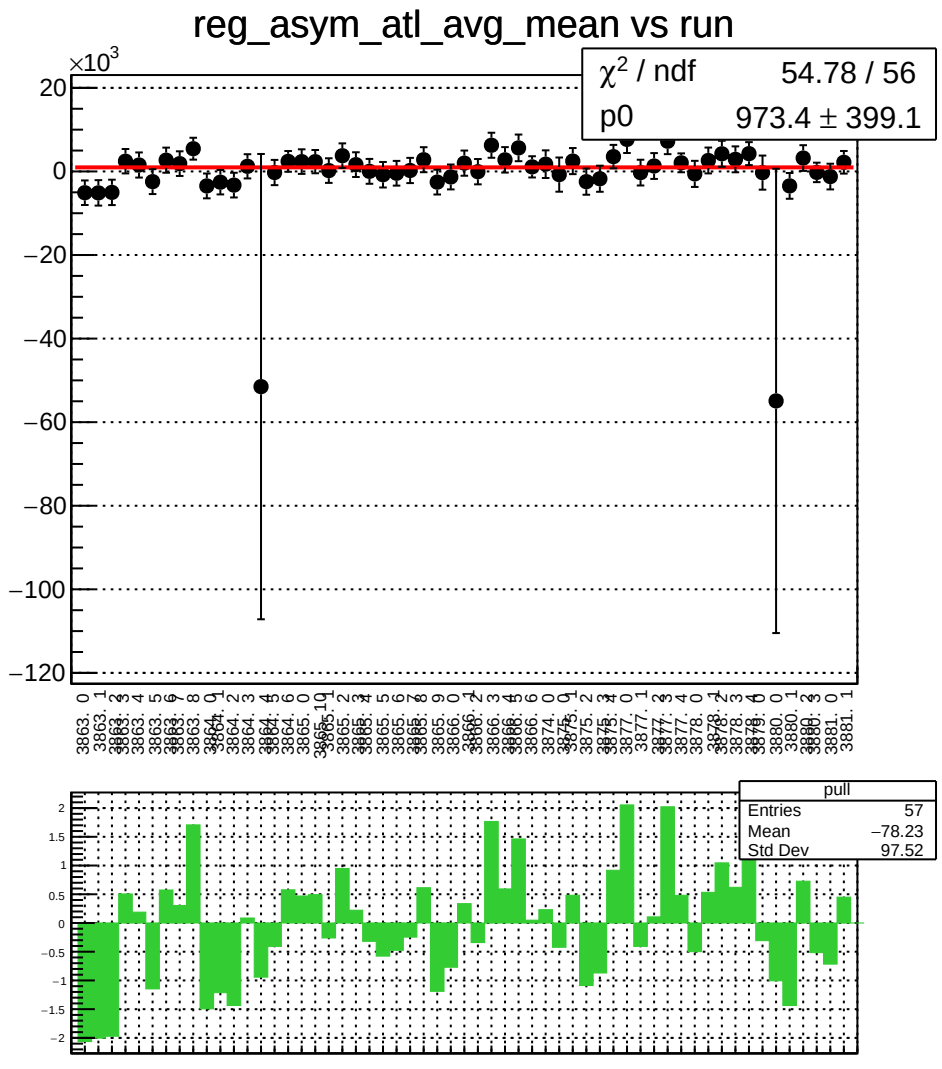

pull1D
Entries 57
Mean −0.003375
Std Dev 0.9293

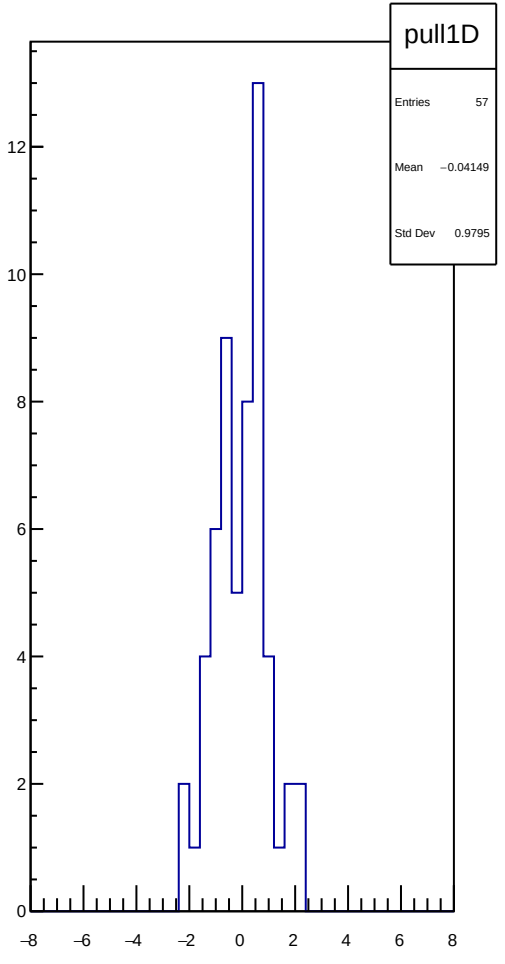

asym_atr2_correction_rms vs run
χ² / ndf 3.511e+04 / 56
p0 2151 ± 2.097
4000
3500
3000
2500
2000
1500

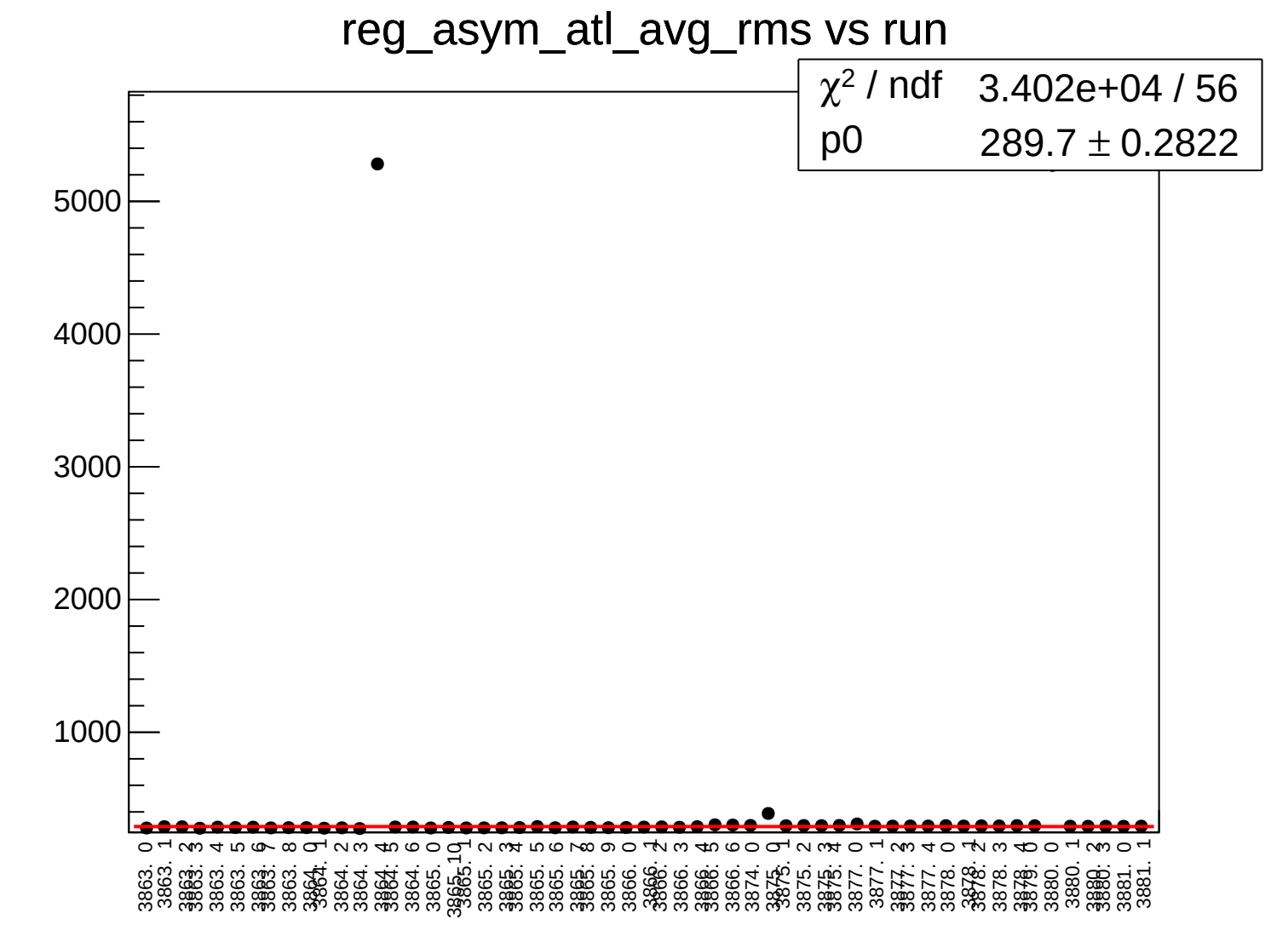

asym_atr2_mean vs run
×10^3
χ^2 / ndf 48.75 / 56
p0 1506 ± 3018
pull
Entries 57
Mean −1258
Std Dev 1294

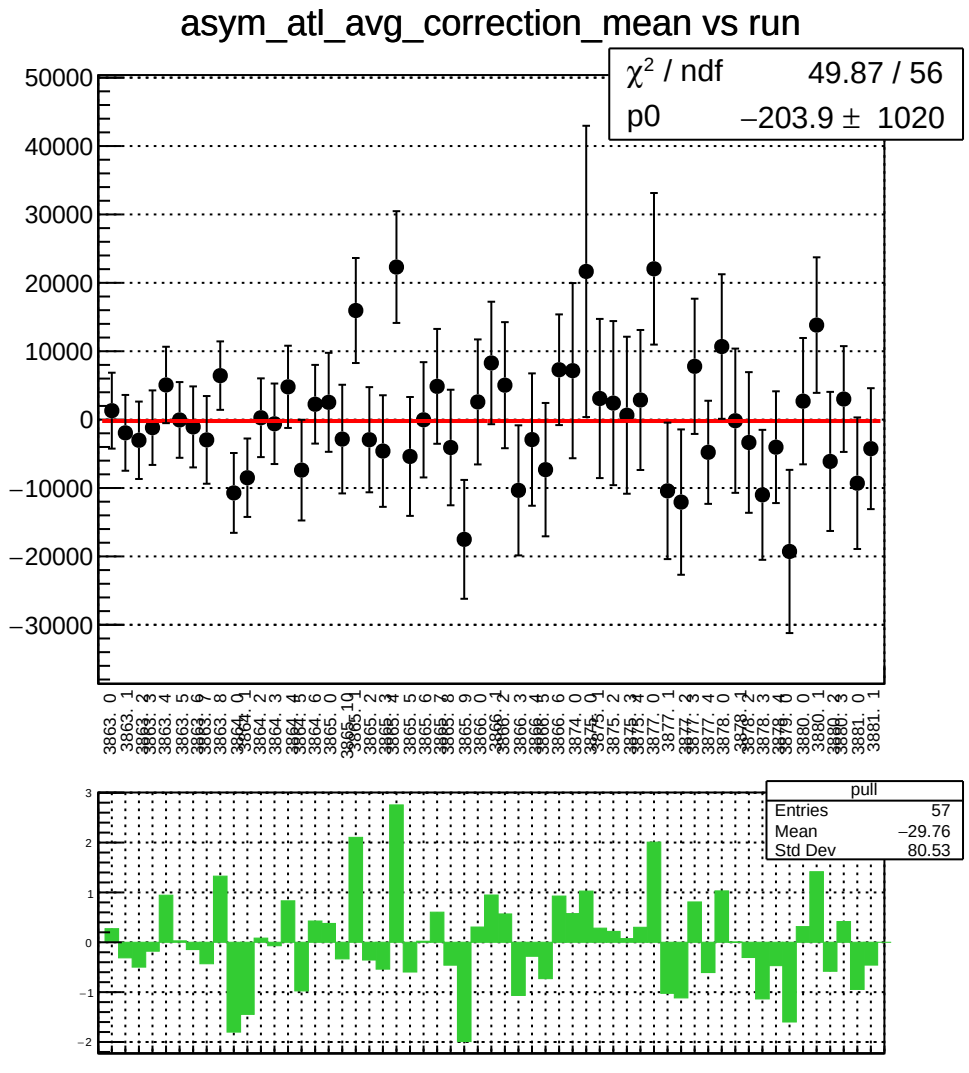

pull1D
Entries 57
Mean −0.001176
Std Dev 0.9248

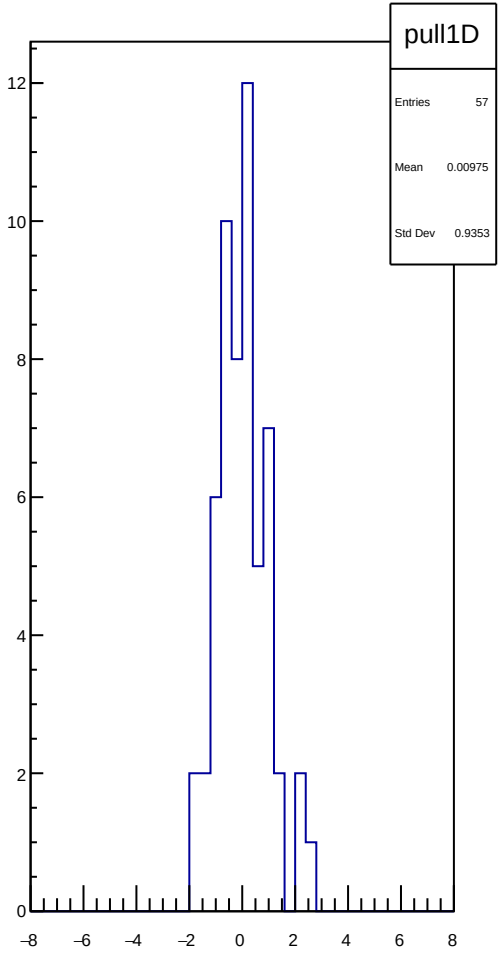

asym_atr2_rms vs run
χ² / ndf 3.331e+04 / 56
p0 2191 ± 2.134
4000
3500
3000
2500
2000
1500

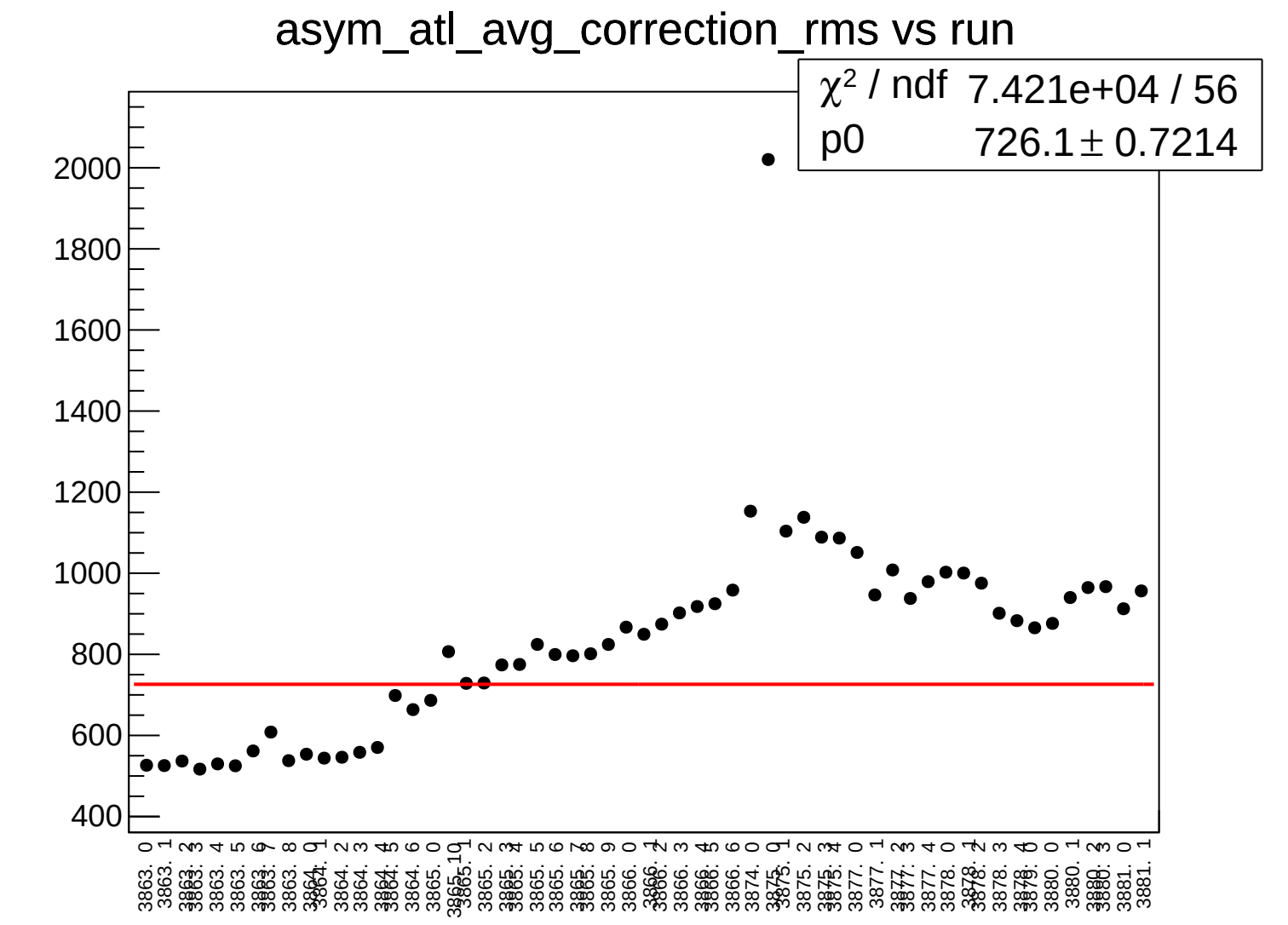

reg_asym_atl_avg_mean vs run
×10^3
χ² / ndf 54.78 / 56
p0 973.4 ± 399.1
pull
Entries 57
Mean −78.23
Std Dev 97.52

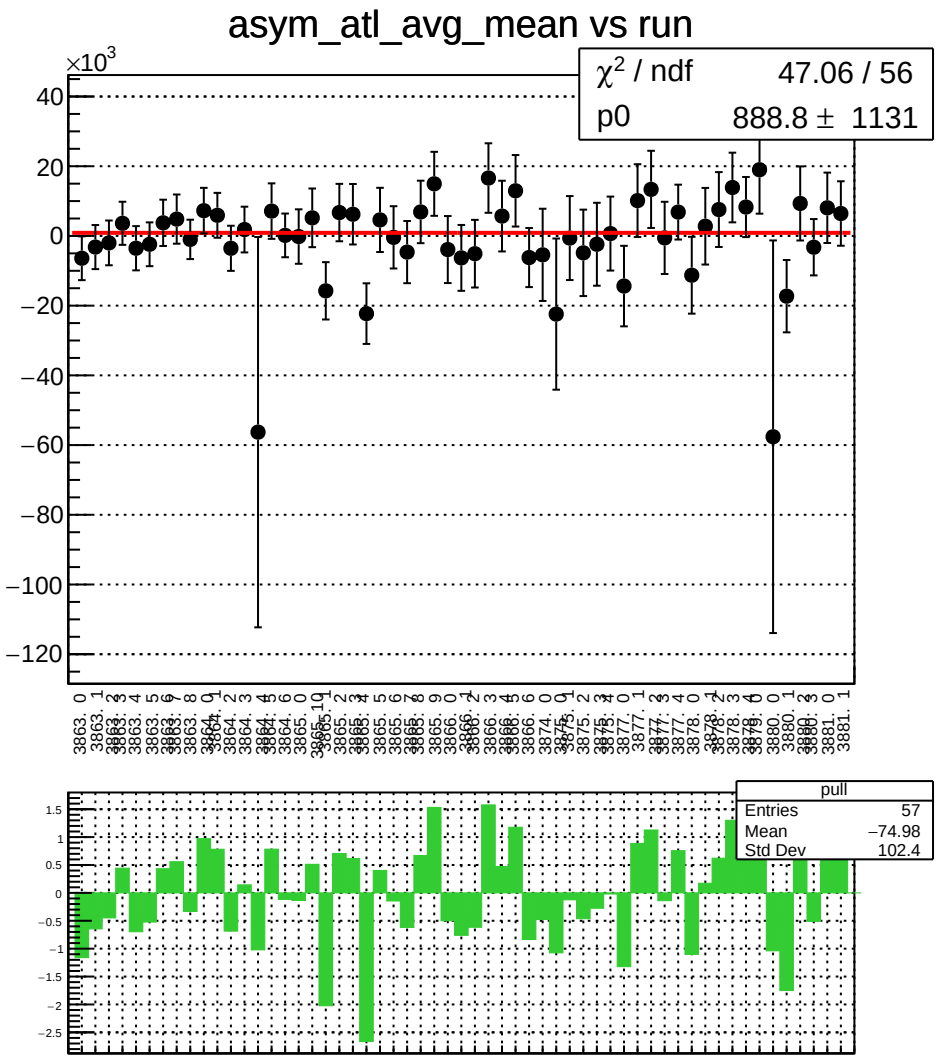

pull1D
Entries 57
Mean −0.04149
Std Dev 0.9795

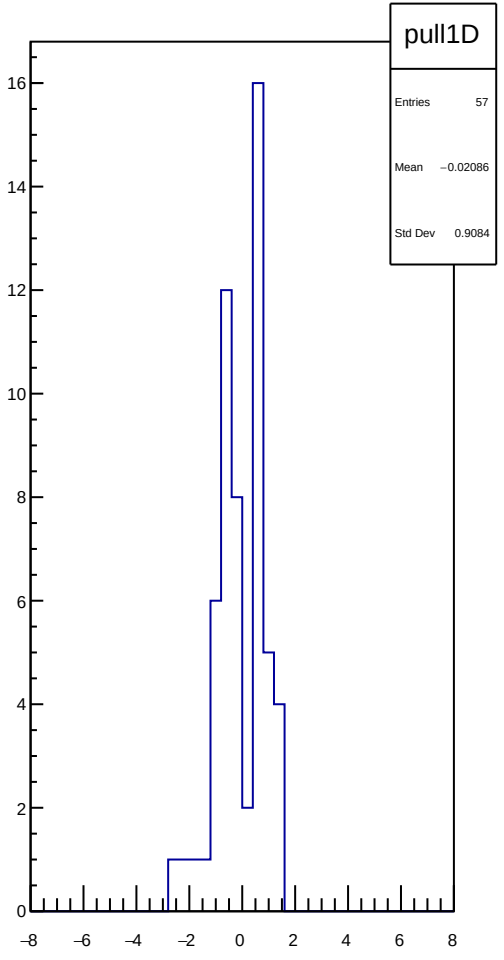

reg_asym_atl_avg_rms vs run
χ^2 / ndf 3.402e+04 / 56
p0 289.7 ± 0.2822
5000
4000
3000
2000
1000
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

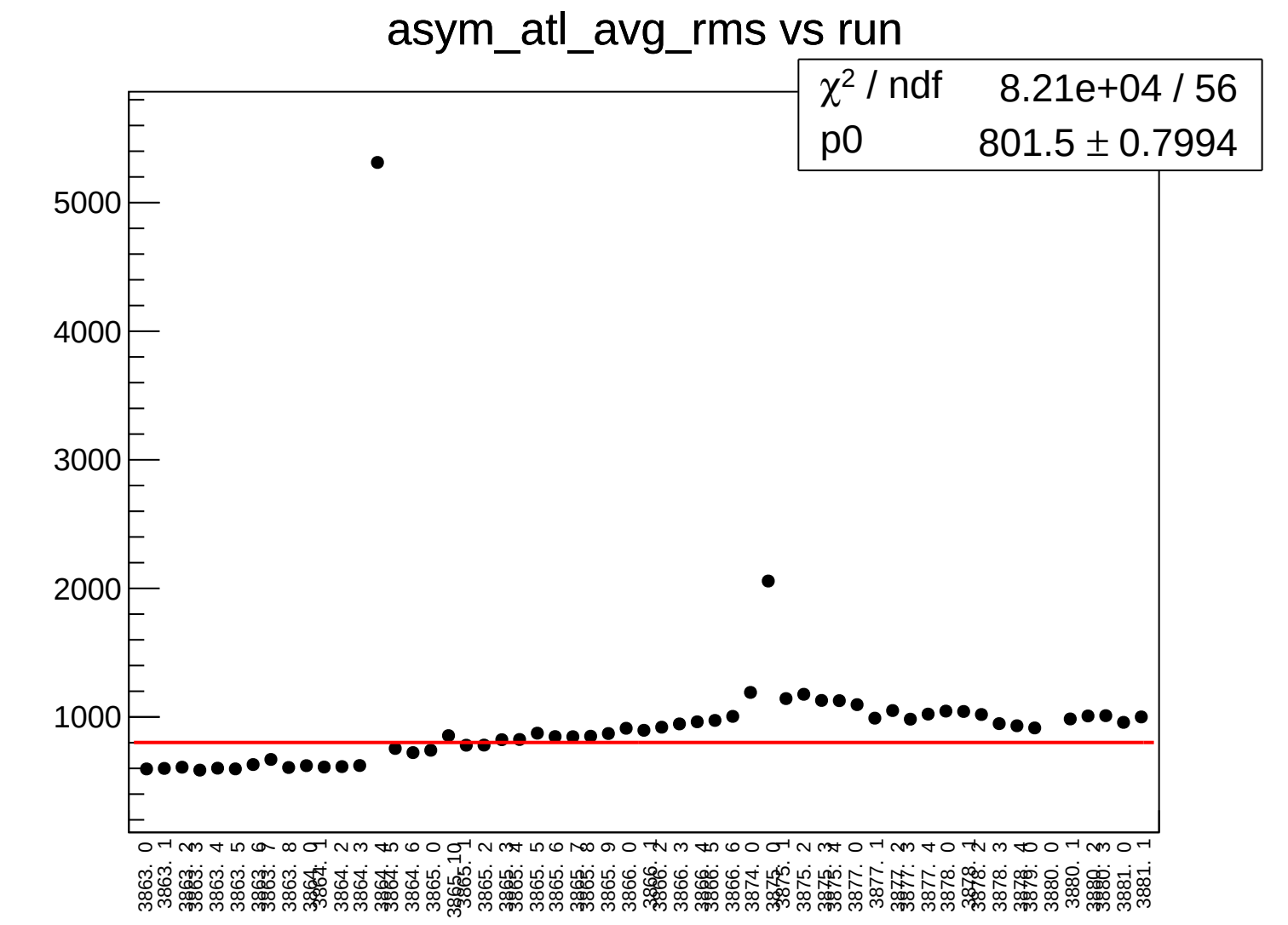

asym_atl_avg_correction_mean vs run
χ² / ndf 49.87 / 56
p0 −203.9 ± 1020
pull
Entries 57
Mean −29.76
Std Dev 80.53

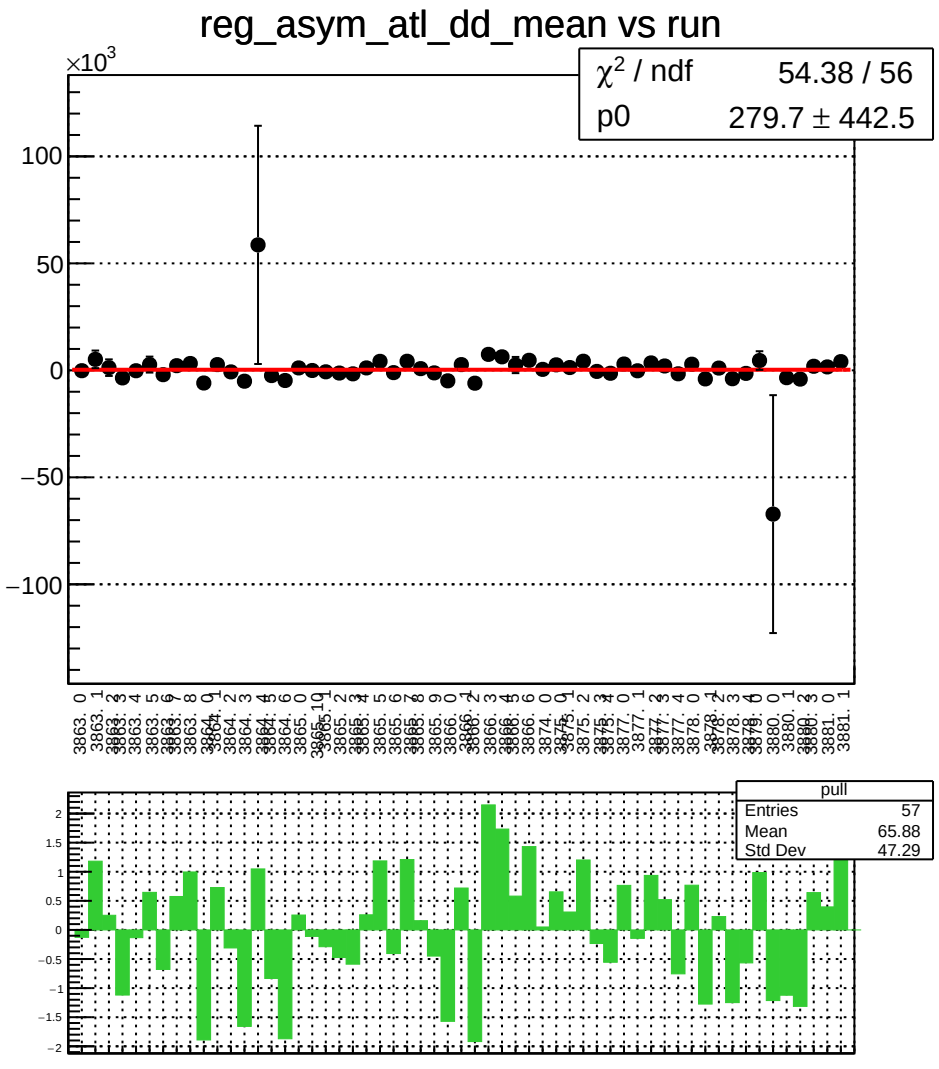

pull1D
Entries 57
Mean 0.00975
Std Dev 0.9353

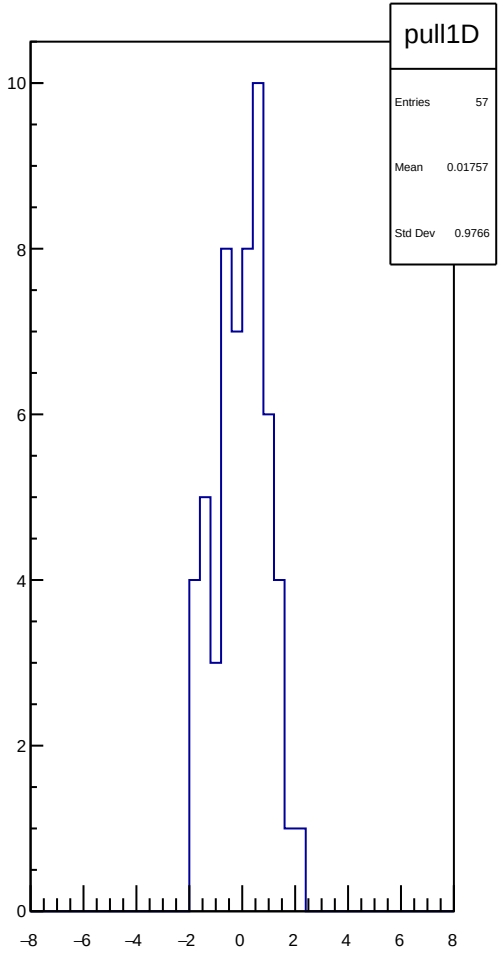

asym_atl_avg_correction_rms vs run
χ² / ndf 7.421e+04 / 56
p0 726.1 ± 0.7214
2000
1800
1600
1400
1200
1000
800
600
400
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

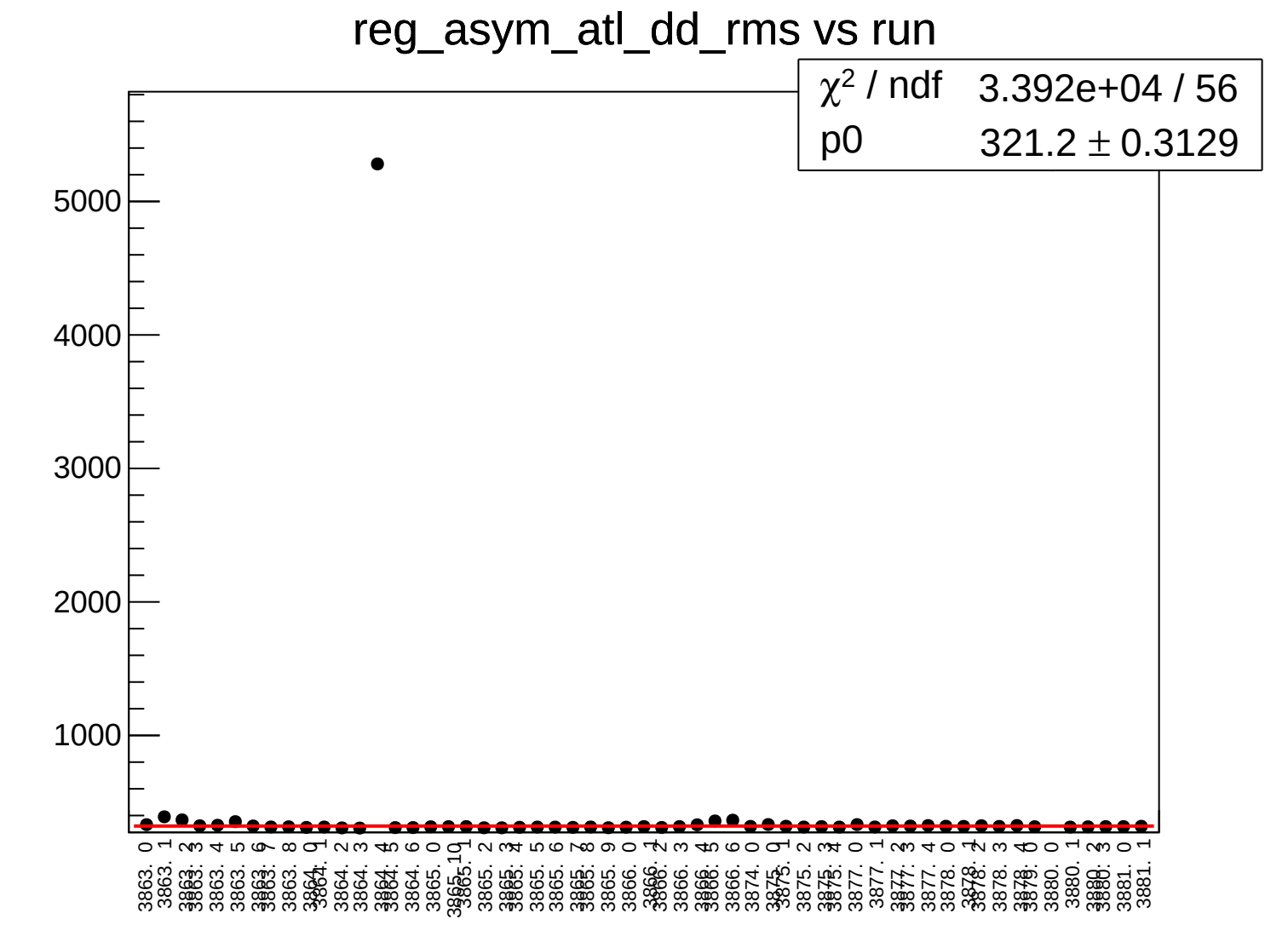

asym_atl_avg_mean vs run
×10^3
χ² / ndf 47.06 / 56
p0 888.8 ± 1131
pull
Entries 57
Mean −74.98
Std Dev 102.4

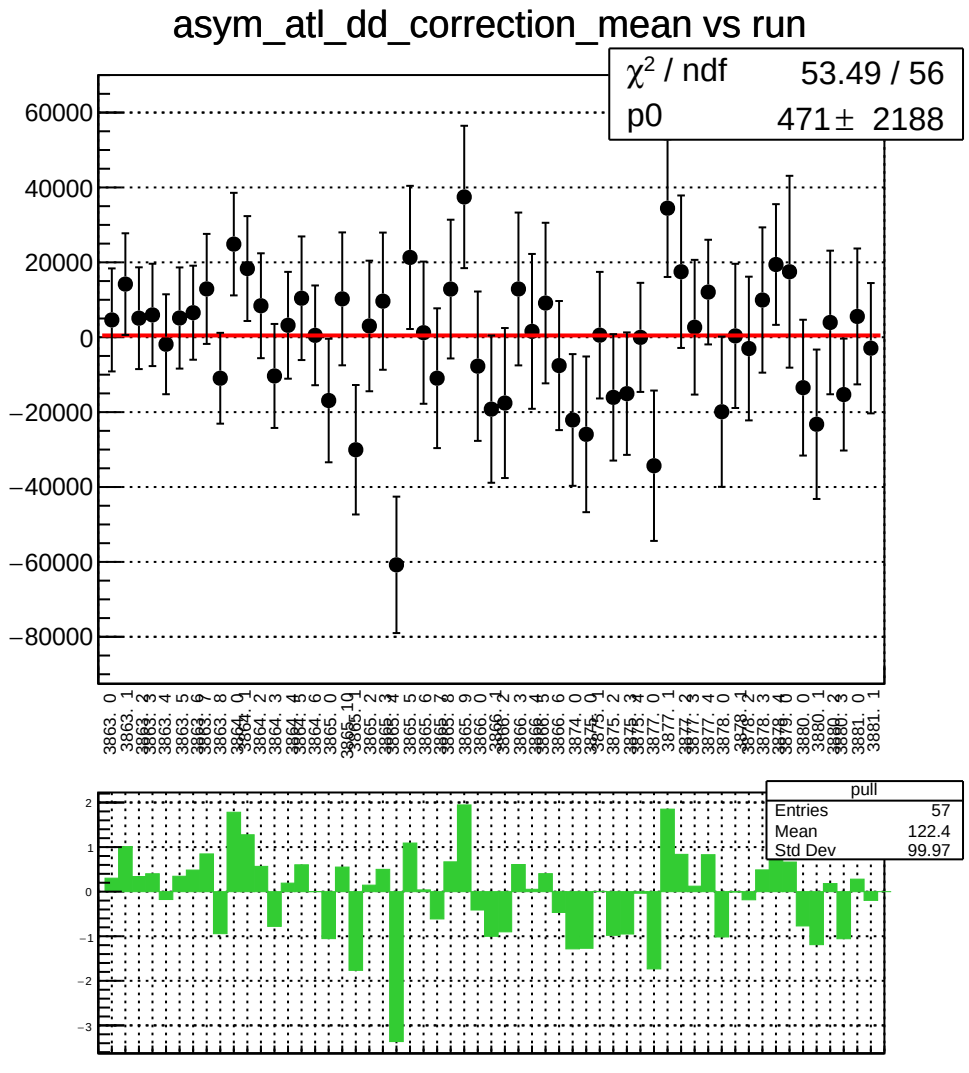

pull1D
Entries 57
Mean −0.02086
Std Dev 0.9084

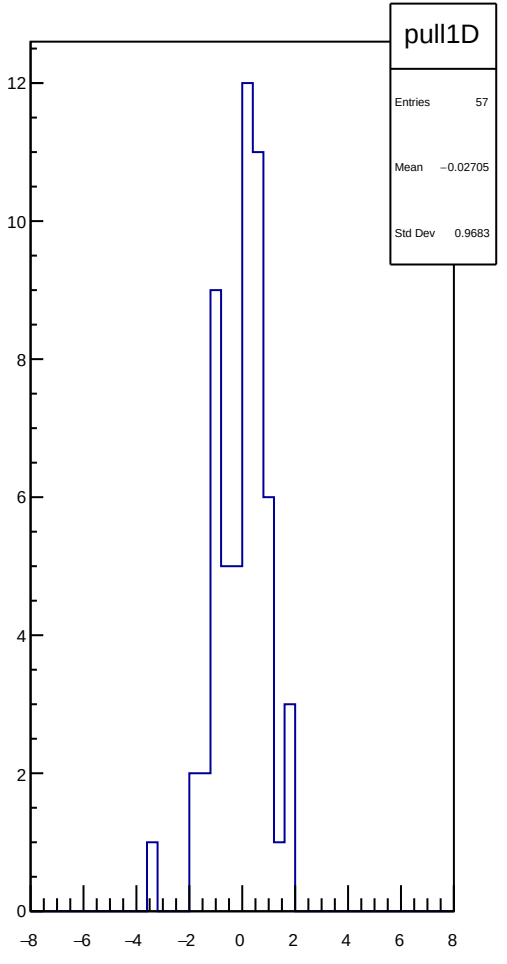

asym_atl_avg_rms vs run
χ² / ndf 8.21e+04 / 56
p0 801.5 ± 0.7994
5000
4000
3000
2000
1000

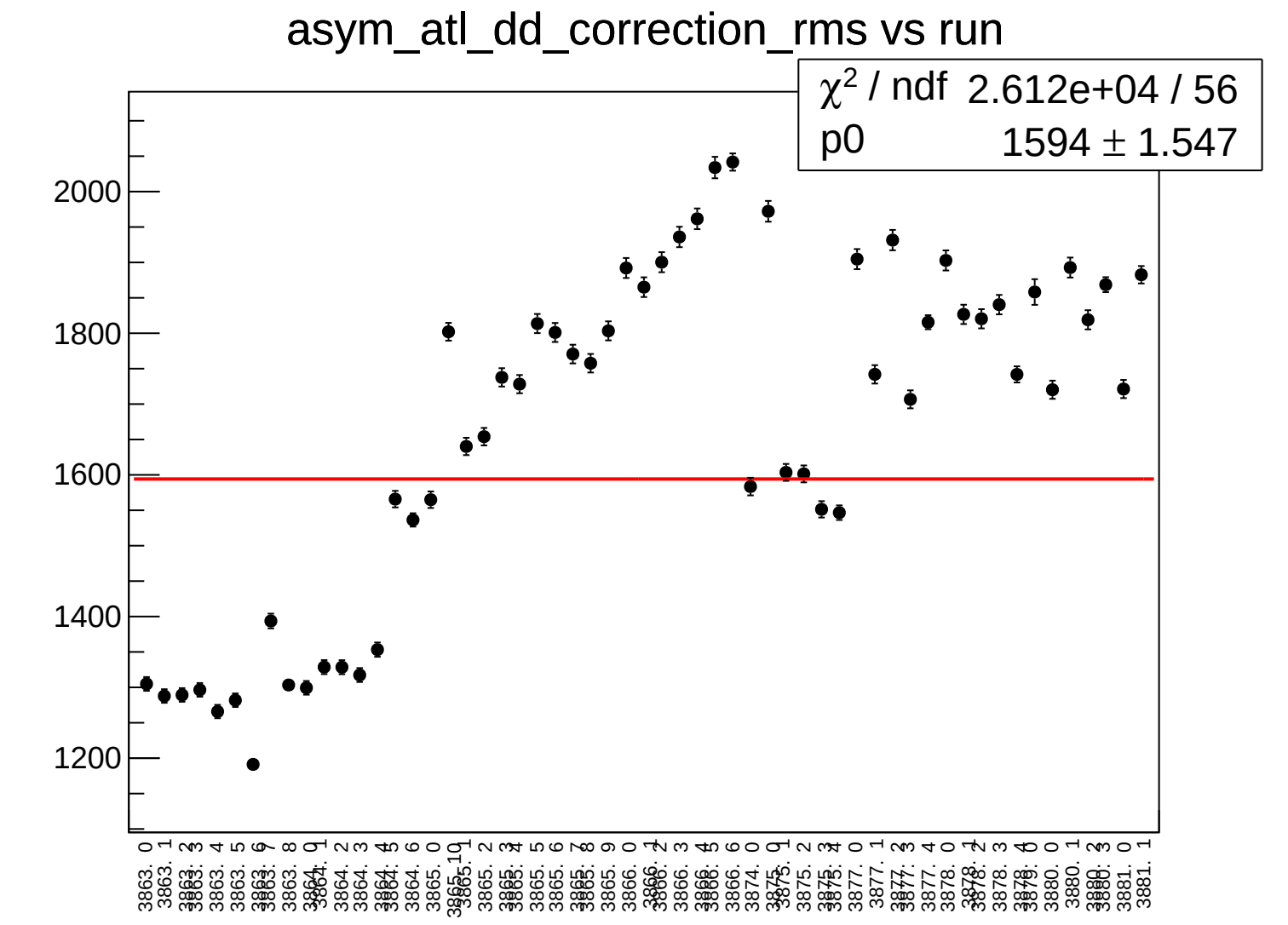

reg_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 54.38 / 56
p0 279.7 ± 442.5
100
50
0
−50
−100
pull
Entries 57
Mean 65.88
Std Dev 47.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

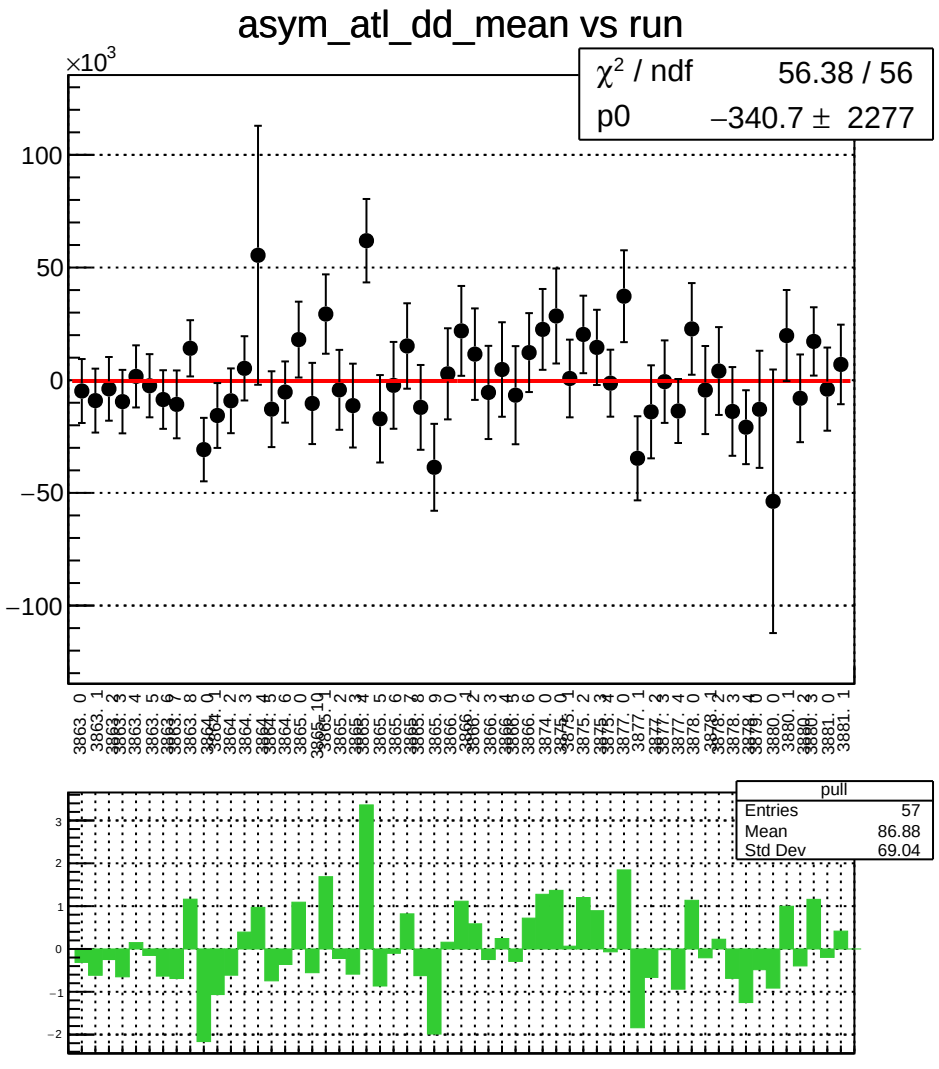

pull1D
Entries 57
Mean 0.01757
Std Dev 0.9766
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

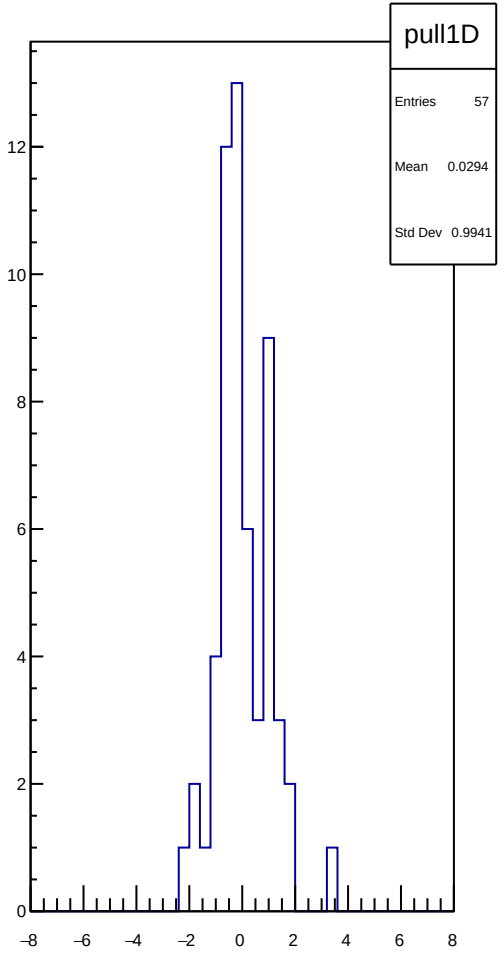

reg_asym_atl_dd_rms vs run
χ² / ndf 3.392e+04 / 56
p0 321.2 ± 0.3129
5000
4000
3000
2000
1000

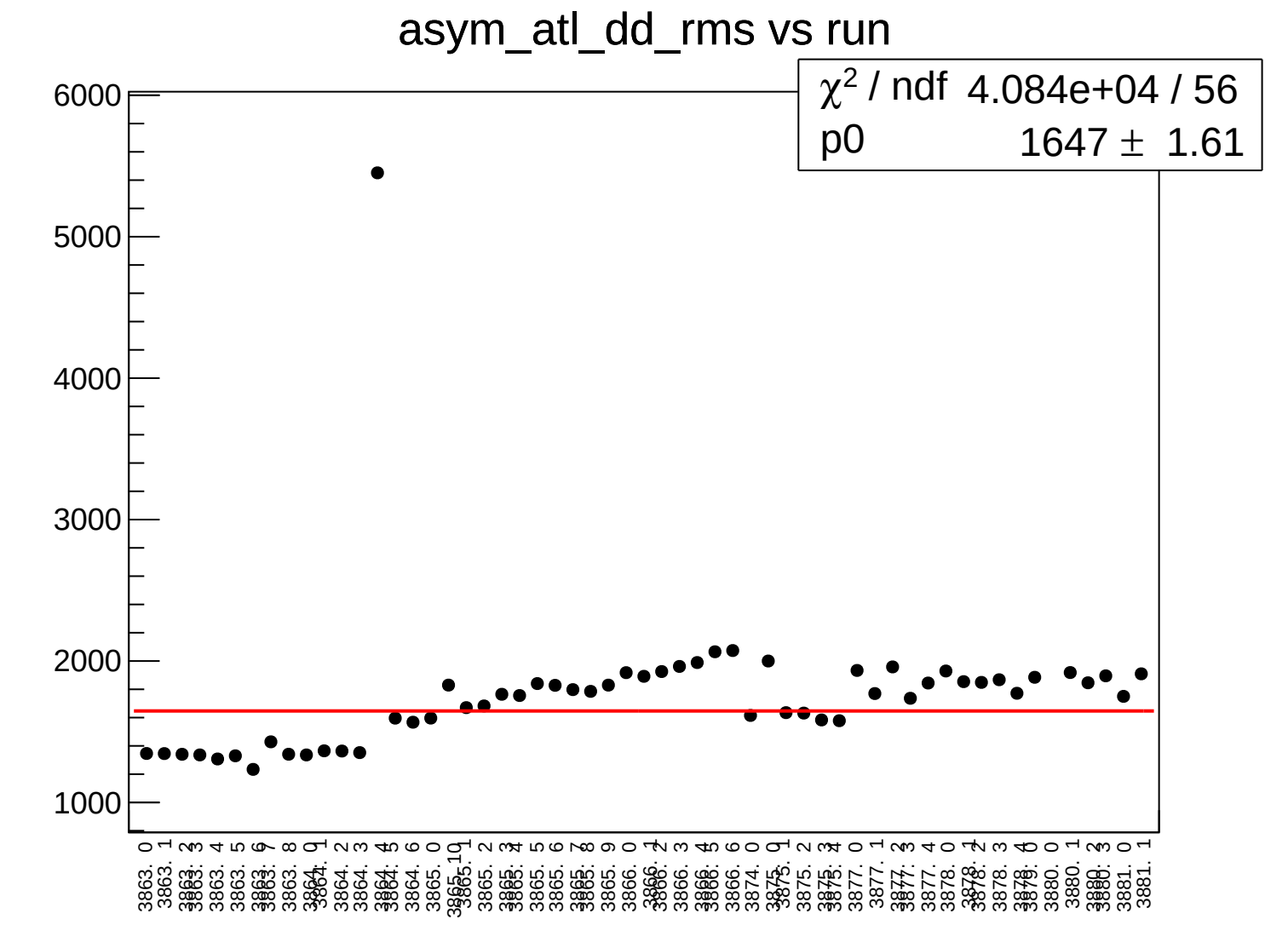

asym_atl_dd_correction_mean vs run
χ² / ndf 53.49 / 56
p0 471 ± 2188
pull
Entries 57
Mean 122.4
Std Dev 99.97

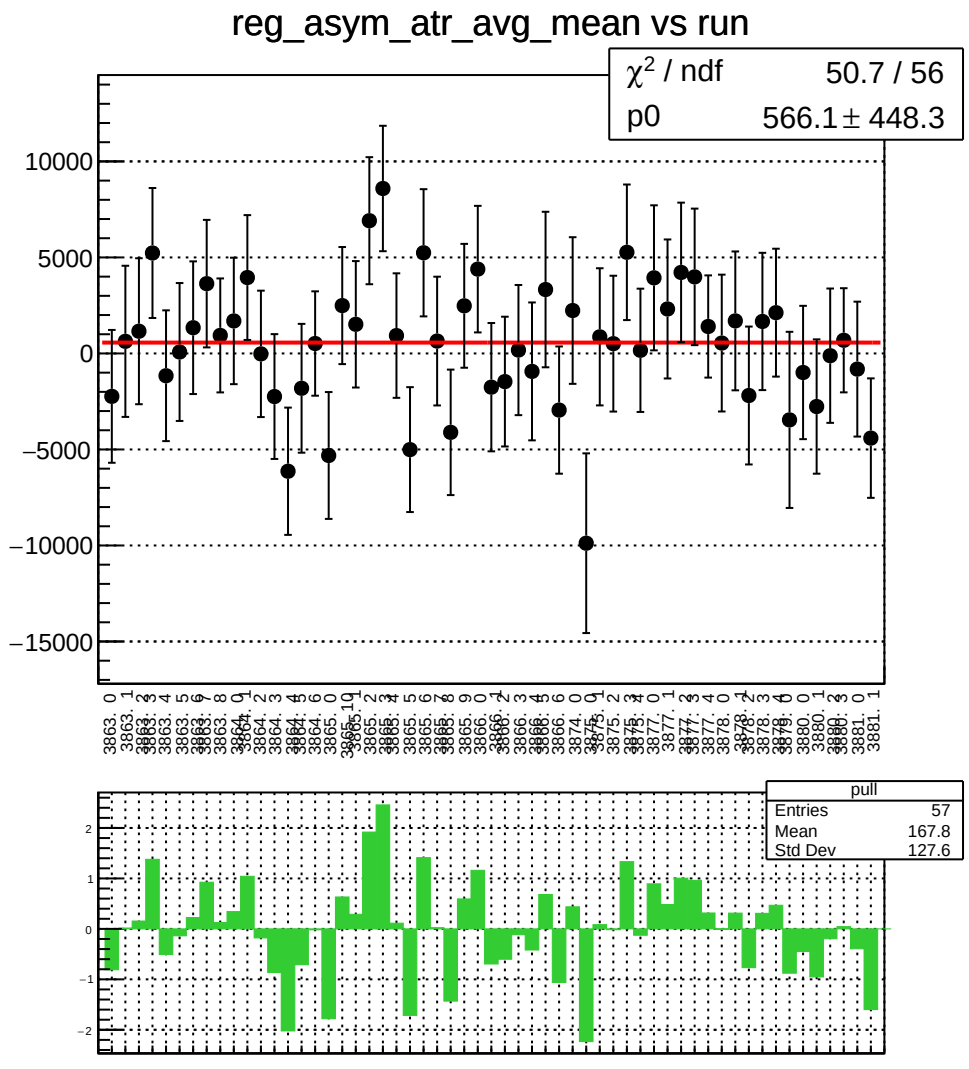

pull1D
Entries 57
Mean −0.02705
Std Dev 0.9683

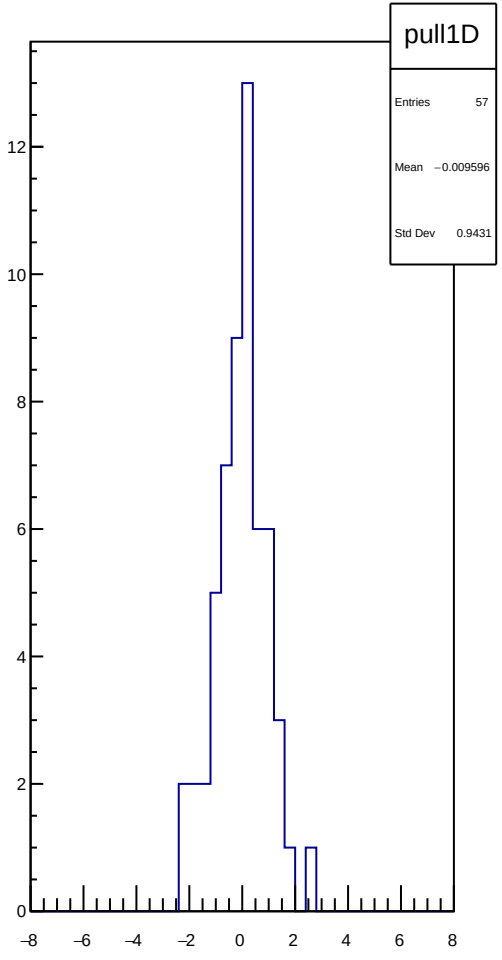

asym_atl_dd_correction_rms vs run
χ² / ndf 2.612e+04 / 56
p0 1594 ± 1.547
2000
1800
1600
1400
1200

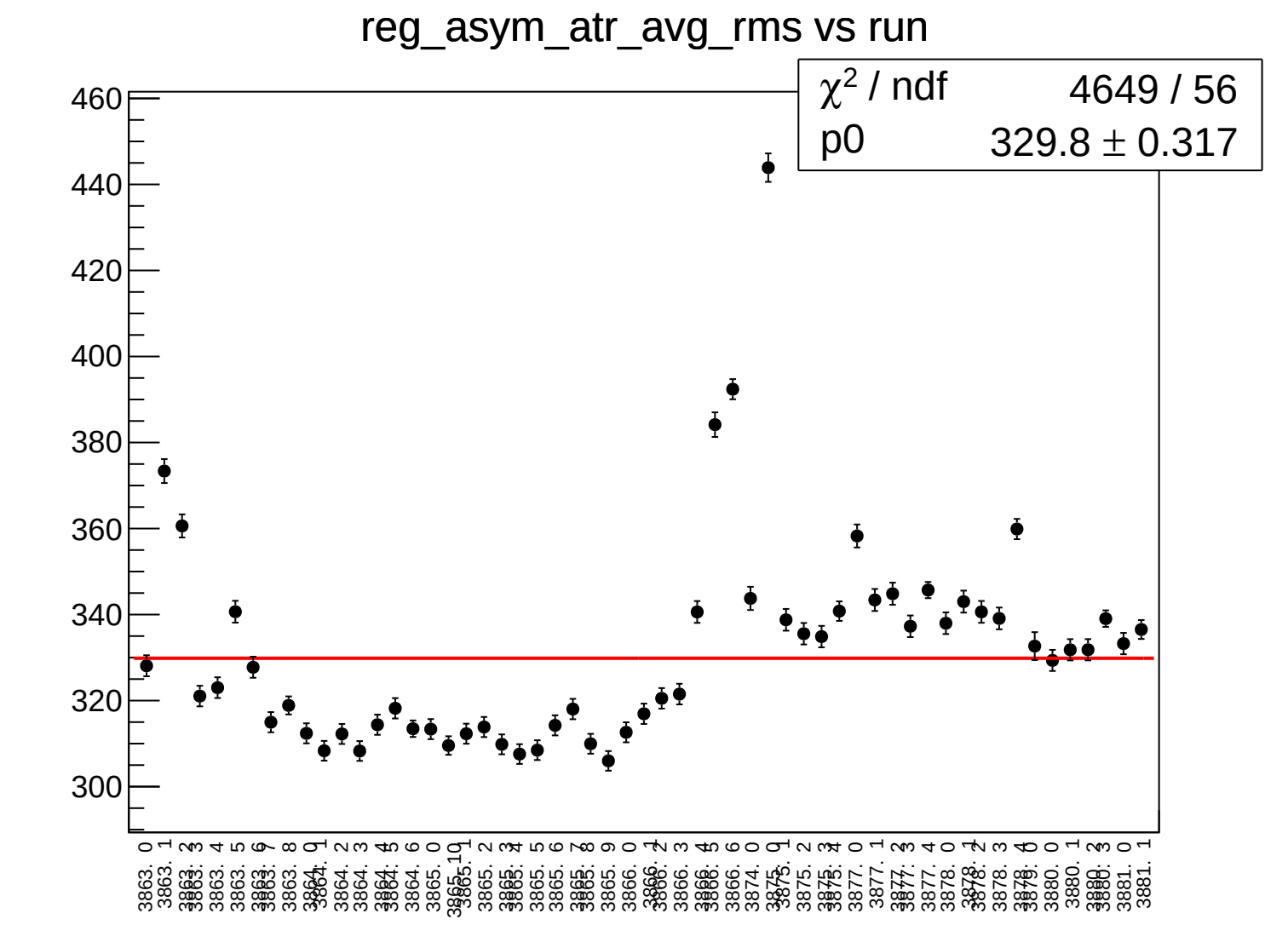

asym_atl_dd_mean vs run
χ² / ndf 56.38 / 56
p0 −340.7 ± 2277
×10³
pull
Entries 57
Mean 86.88
Std Dev 69.04

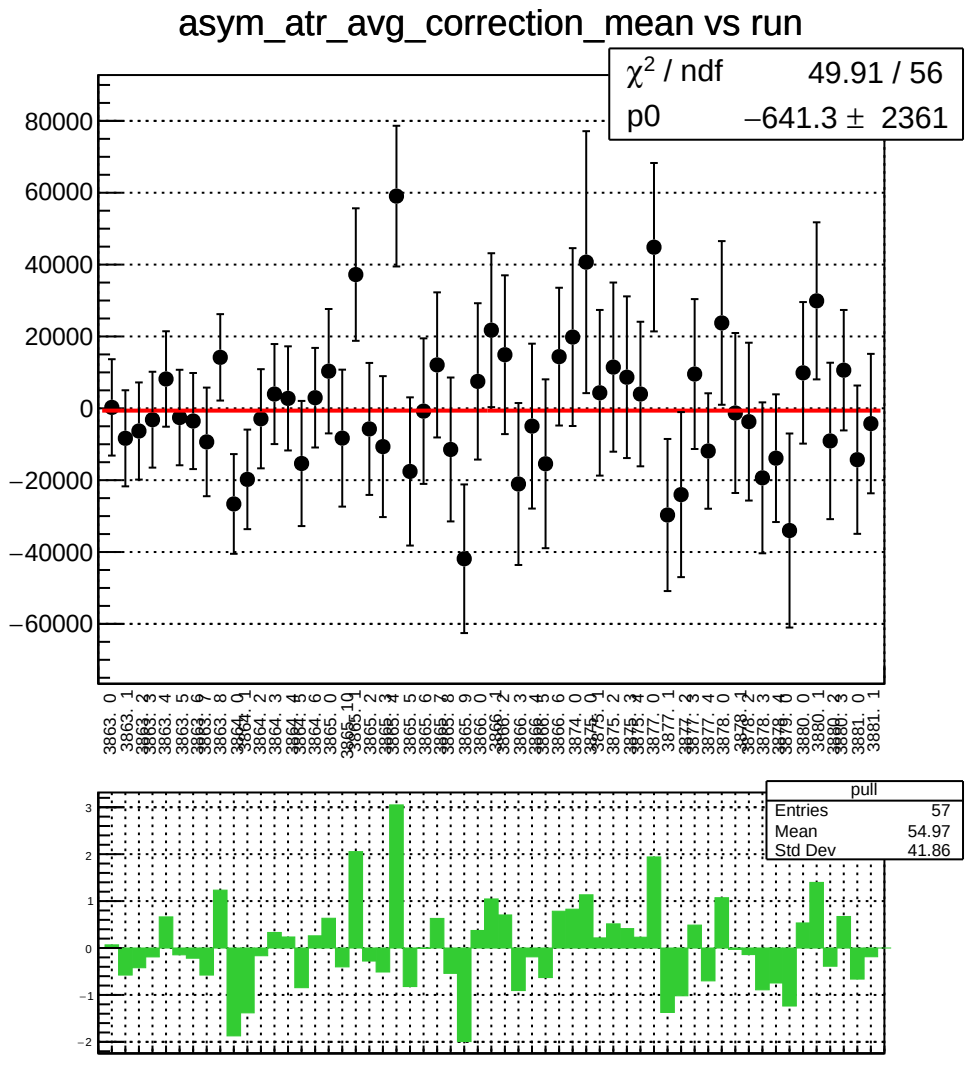

pull1D
Entries 57
Mean 0.0294
Std Dev 0.9941

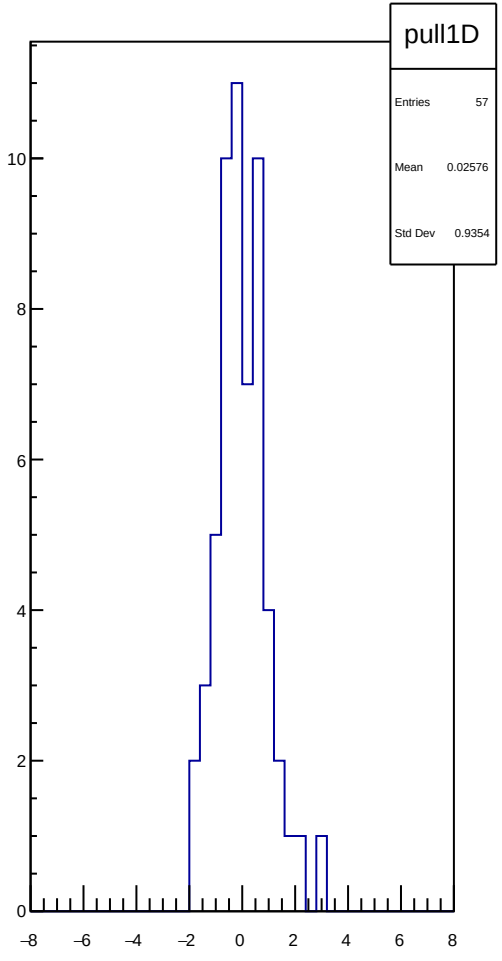

asym_atl_dd_rms vs run
χ² / ndf 4.084e+04 / 56
p0 1647 ± 1.61
6000
5000
4000
3000
2000
1000

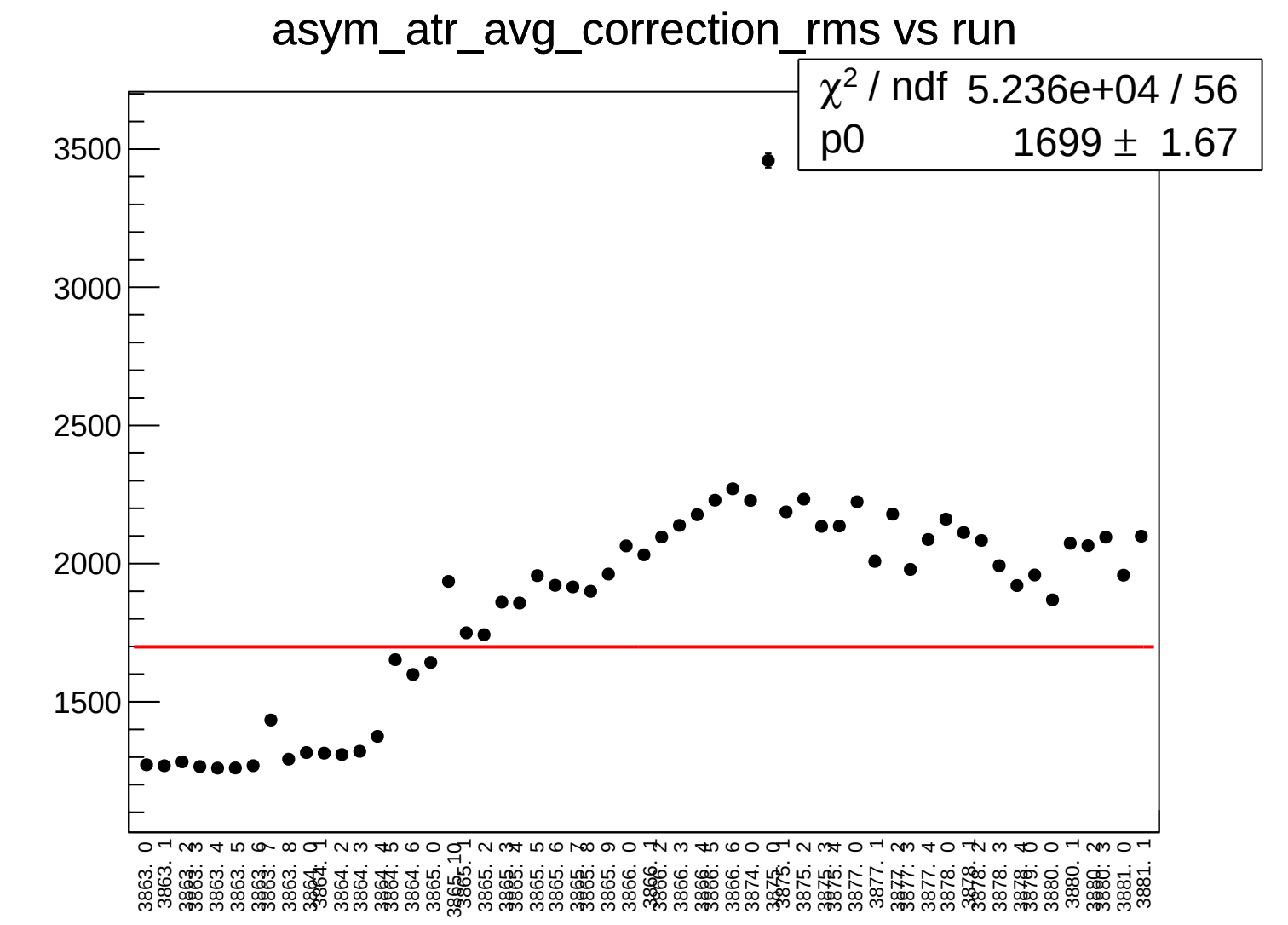

reg_asym_atr_avg_mean vs run
χ² / ndf 50.7 / 56
p0 566.1 ± 448.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 57
Mean 167.8
Std Dev 127.6
2
1
0
−1
−2

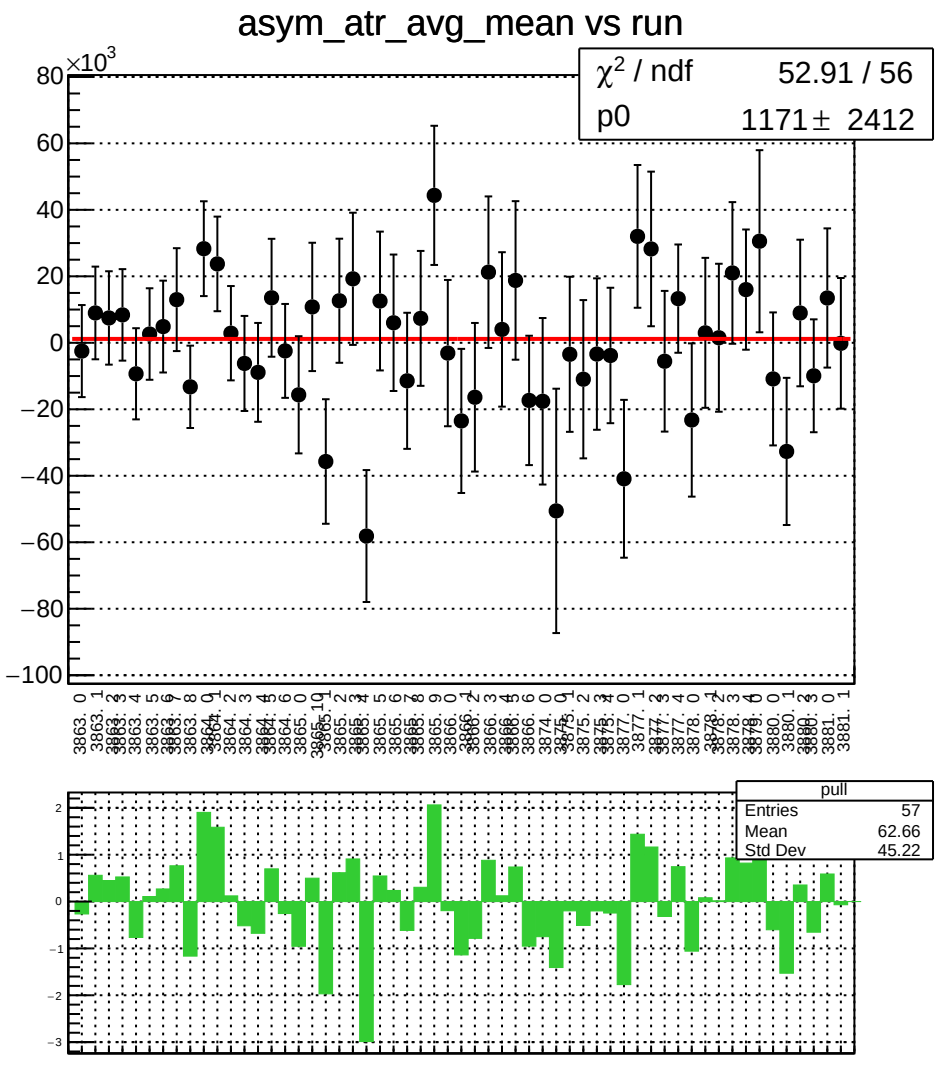

pull1D
Entries 57
Mean −0.009596
Std Dev 0.9431
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

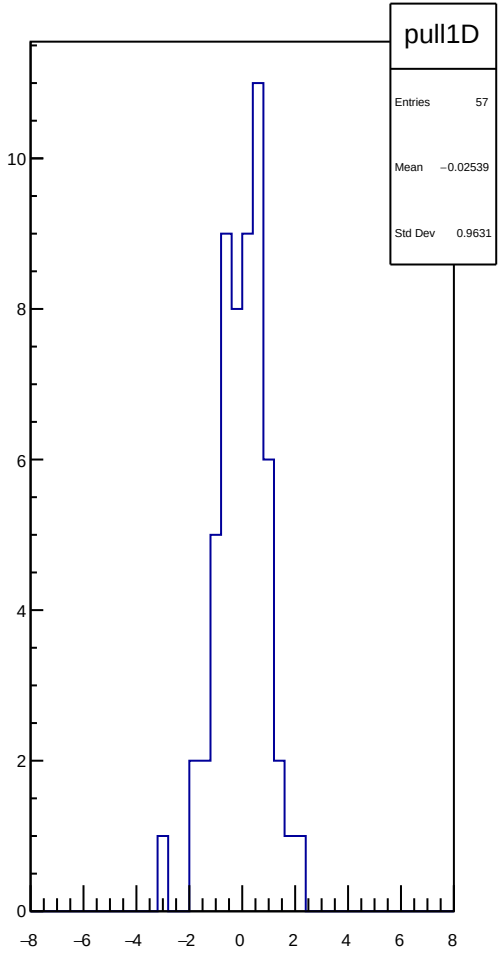

reg_asym_atr_avg_rms vs run
χ^2 / ndf 4649 / 56
p0 329.8 ± 0.317
460
440
420
400
380
360
340
320
300

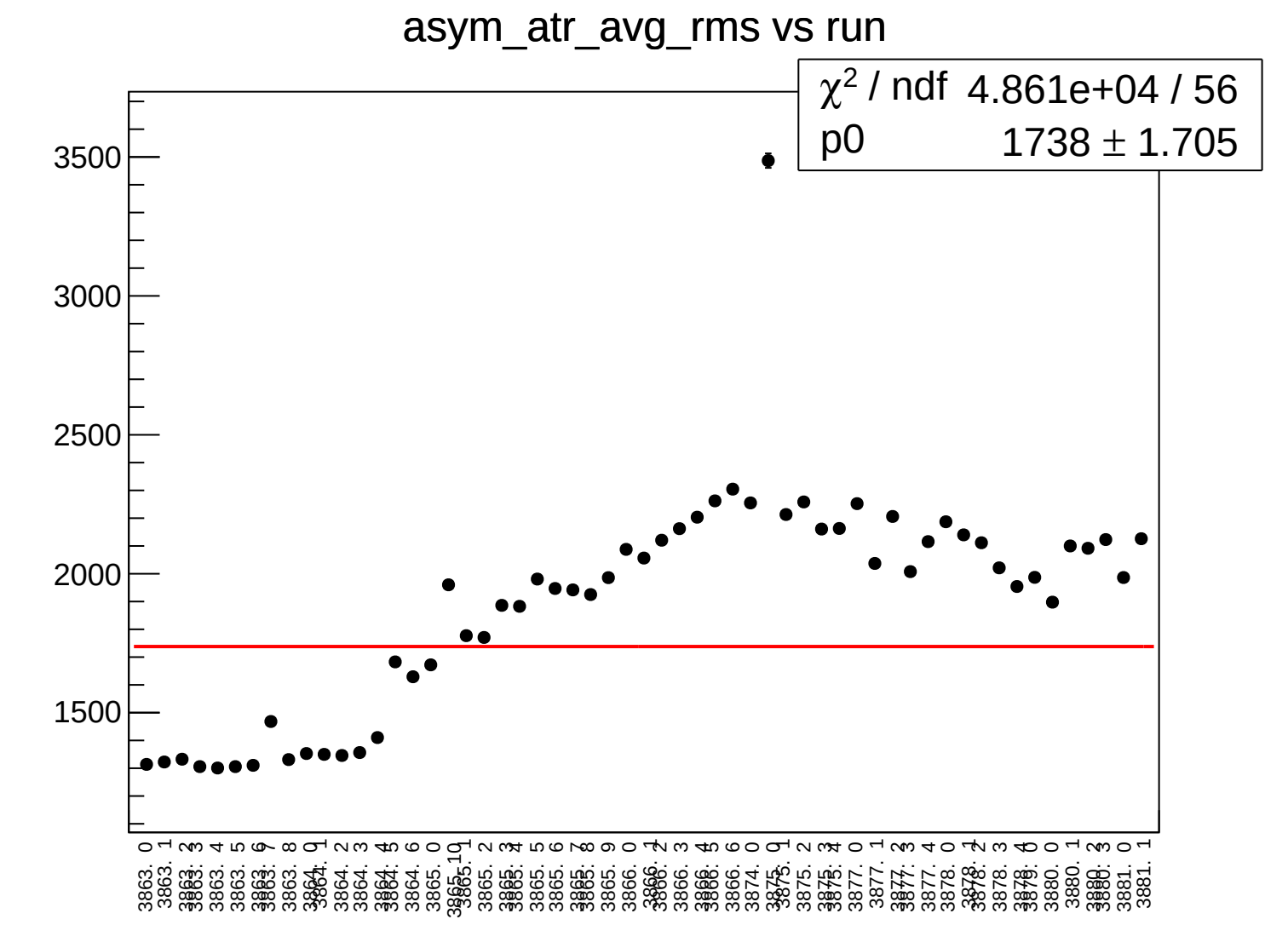

asym_atr_avg_correction_mean vs run
χ² / ndf 49.91 / 56
p0 −641.3 ± 2361
pull
Entries 57
Mean 54.97
Std Dev 41.86

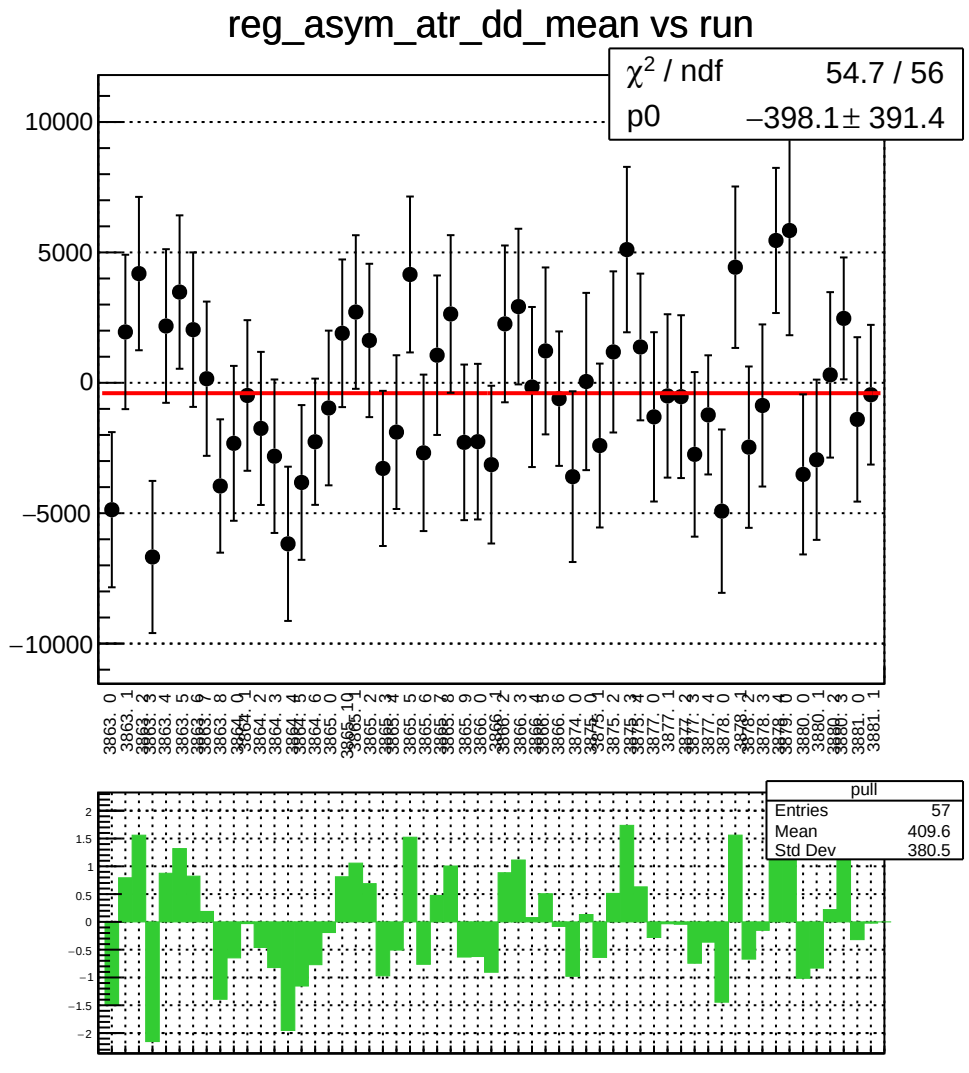

pull1D
Entries 57
Mean 0.02576
Std Dev 0.9354

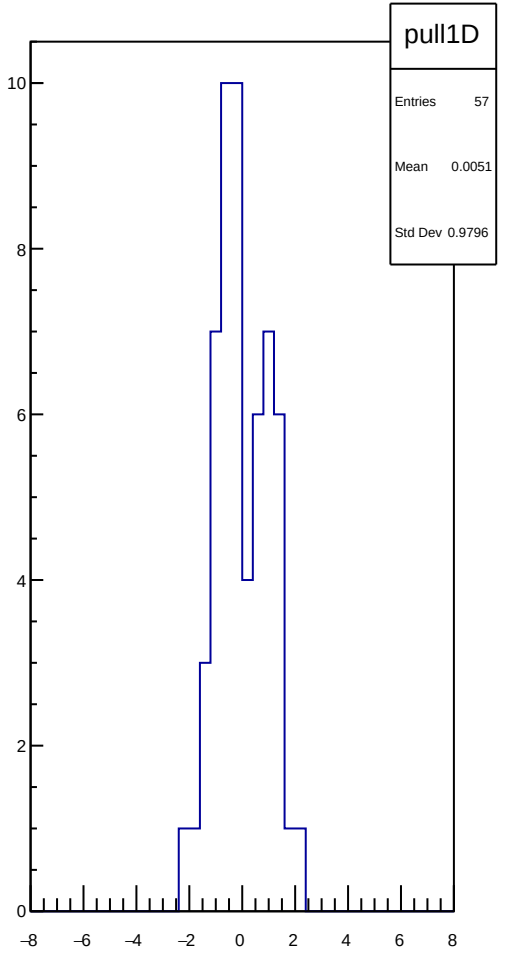

asym_atr_avg_correction_rms vs run
χ² / ndf 5.236e+04 / 56
p0 1699 ± 1.67
3500
3000
2500
2000
1500

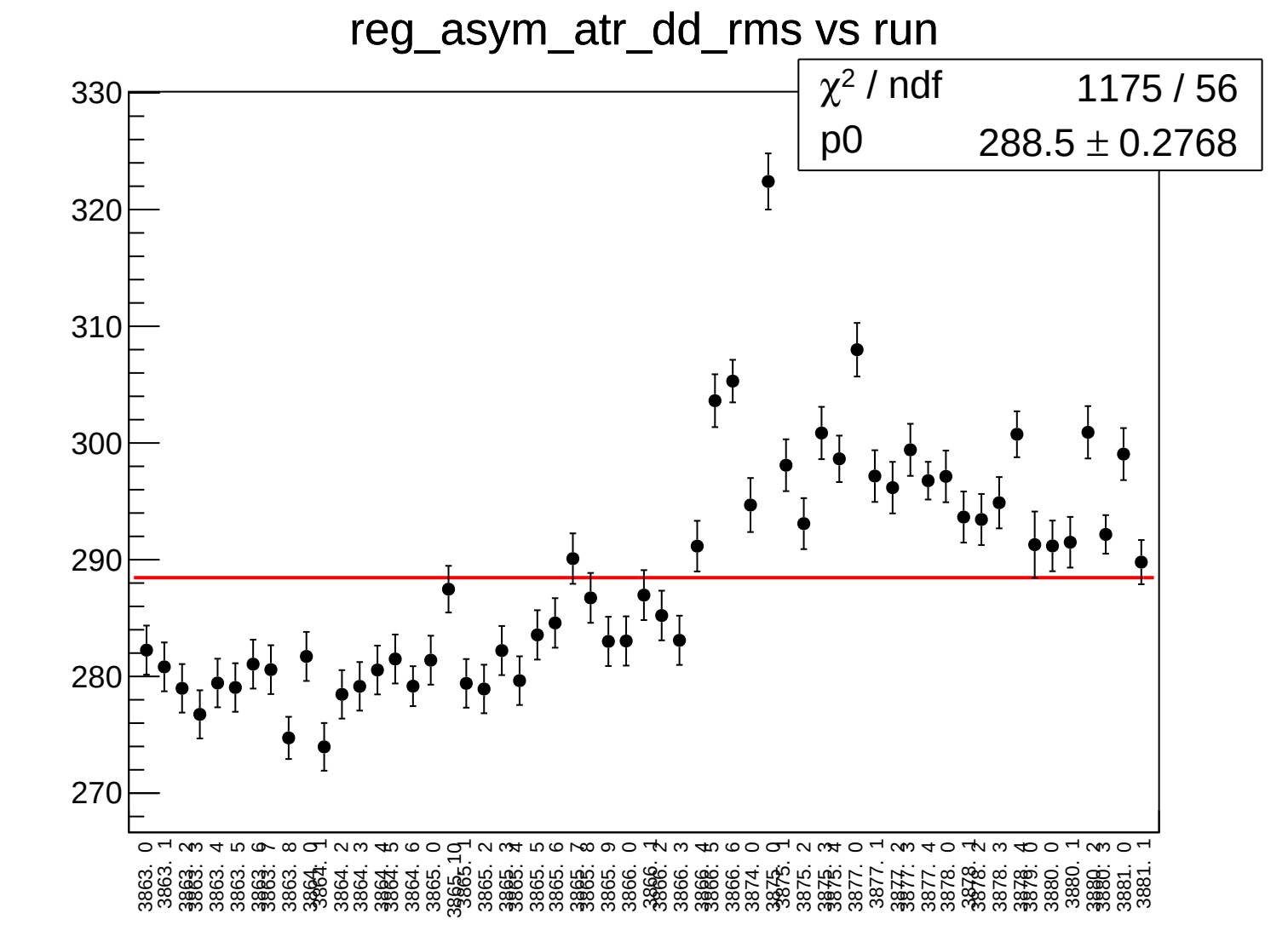

asym_atr_avg_mean vs run
χ² / ndf 52.91 / 56
p0 1171 ± 2412
×10³
pull
Entries 57
Mean 62.66
Std Dev 45.22

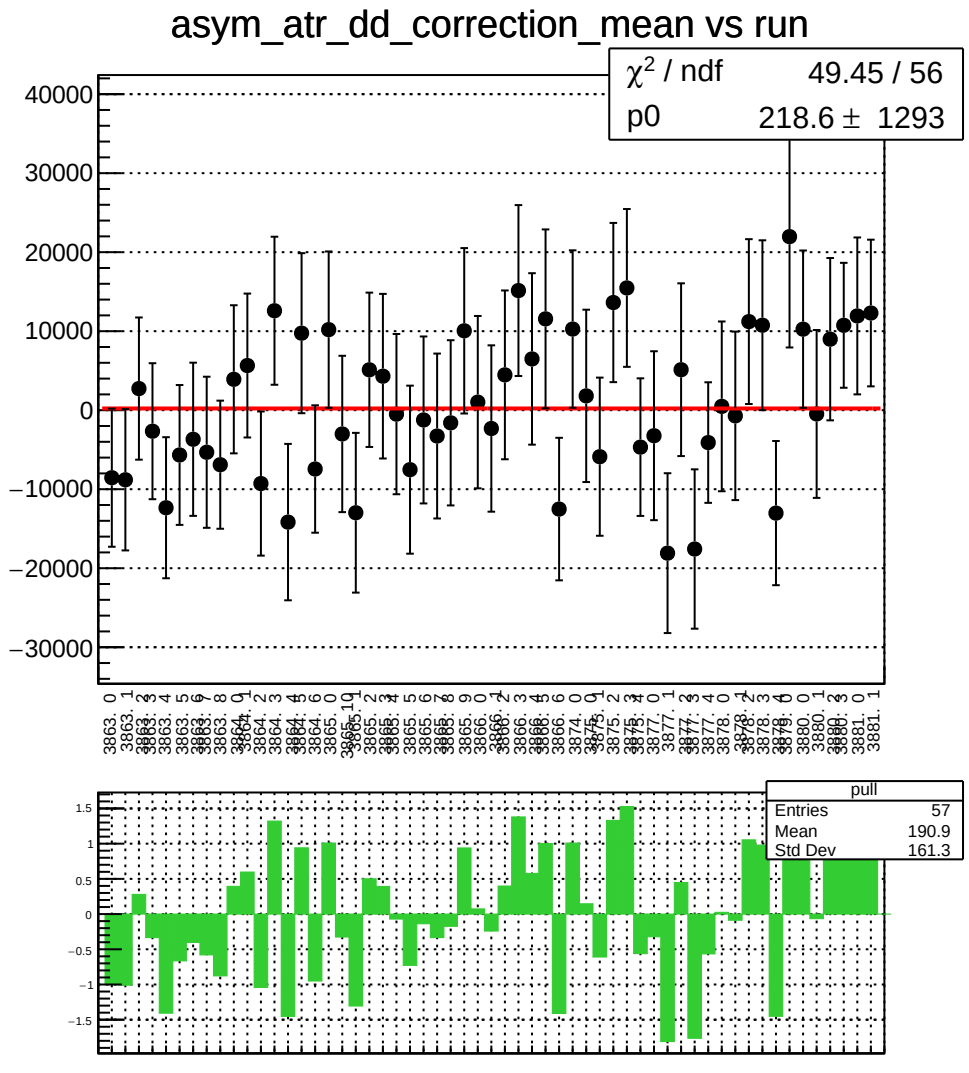

pull1D
Entries 57
Mean −0.02539
Std Dev 0.9631

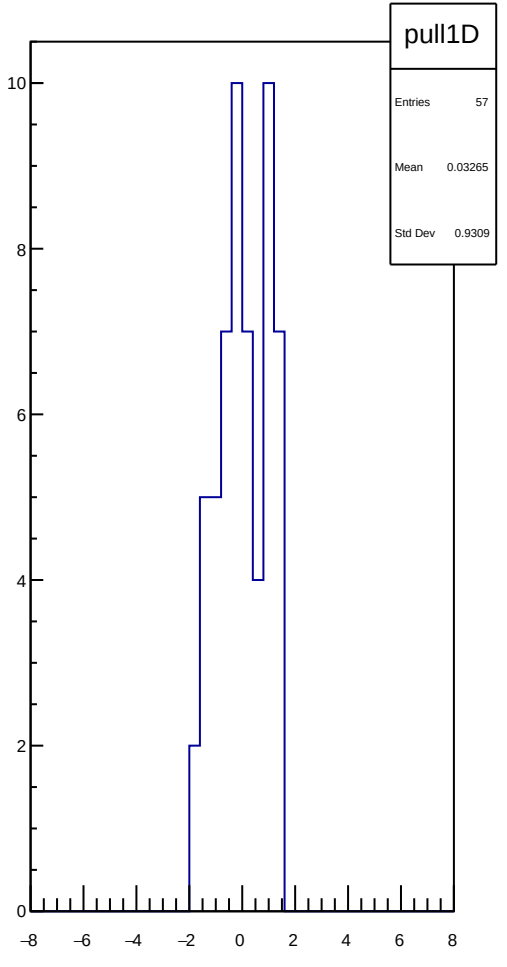

asym_atr_avg_rms vs run
χ² / ndf 4.861e+04 / 56
p0 1738 ± 1.705
3500
3000
2500
2000
1500

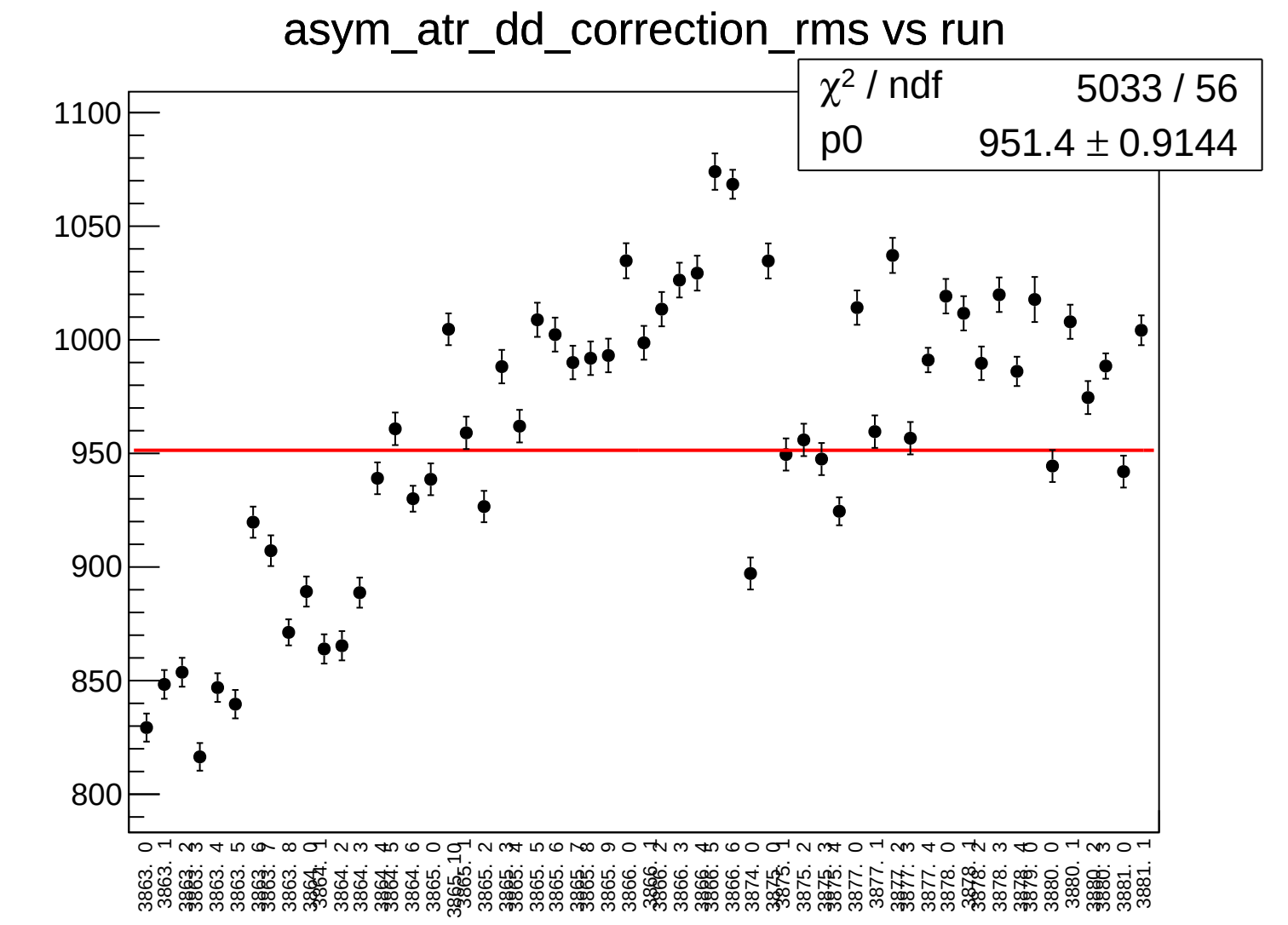

reg_asym_atr_dd_mean vs run
χ² / ndf 54.7 / 56
p0 −398.1± 391.4
10000
5000
0
−5000
−10000
pull
Entries 57
Mean 409.6
Std Dev 380.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

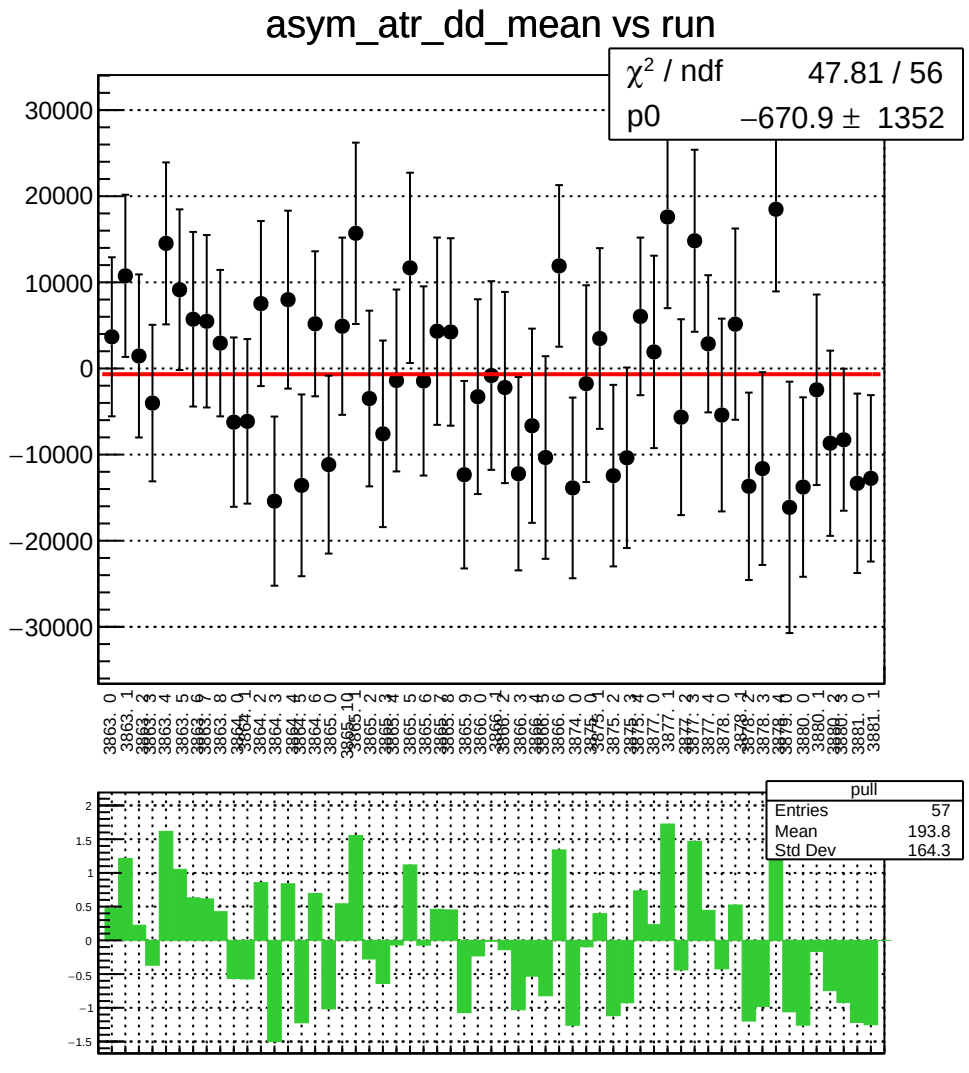

pull1D
Entries 57
Mean 0.0051
Std Dev 0.9796
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

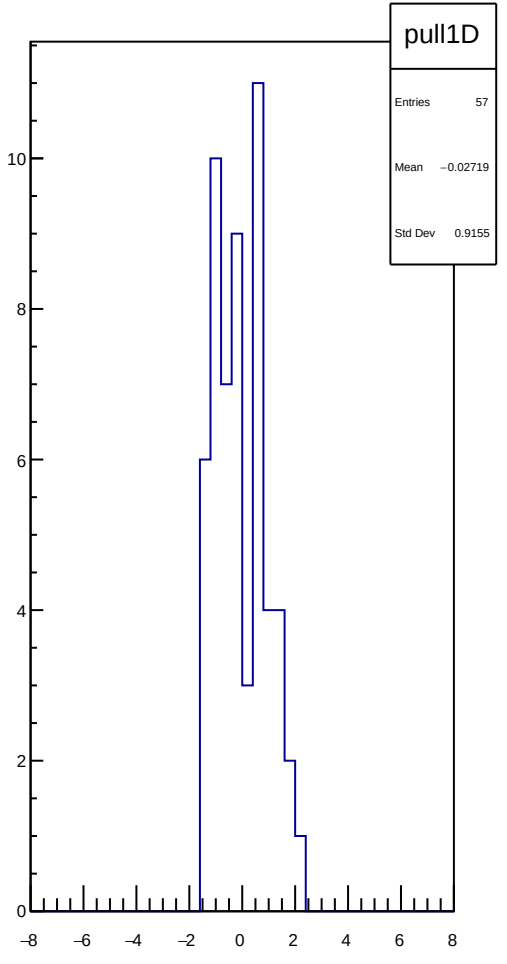

reg_asym_atr_dd_rms vs run
χ² / ndf 1175 / 56
p0 288.5 ± 0.2768
330
320
310
300
290
280
270

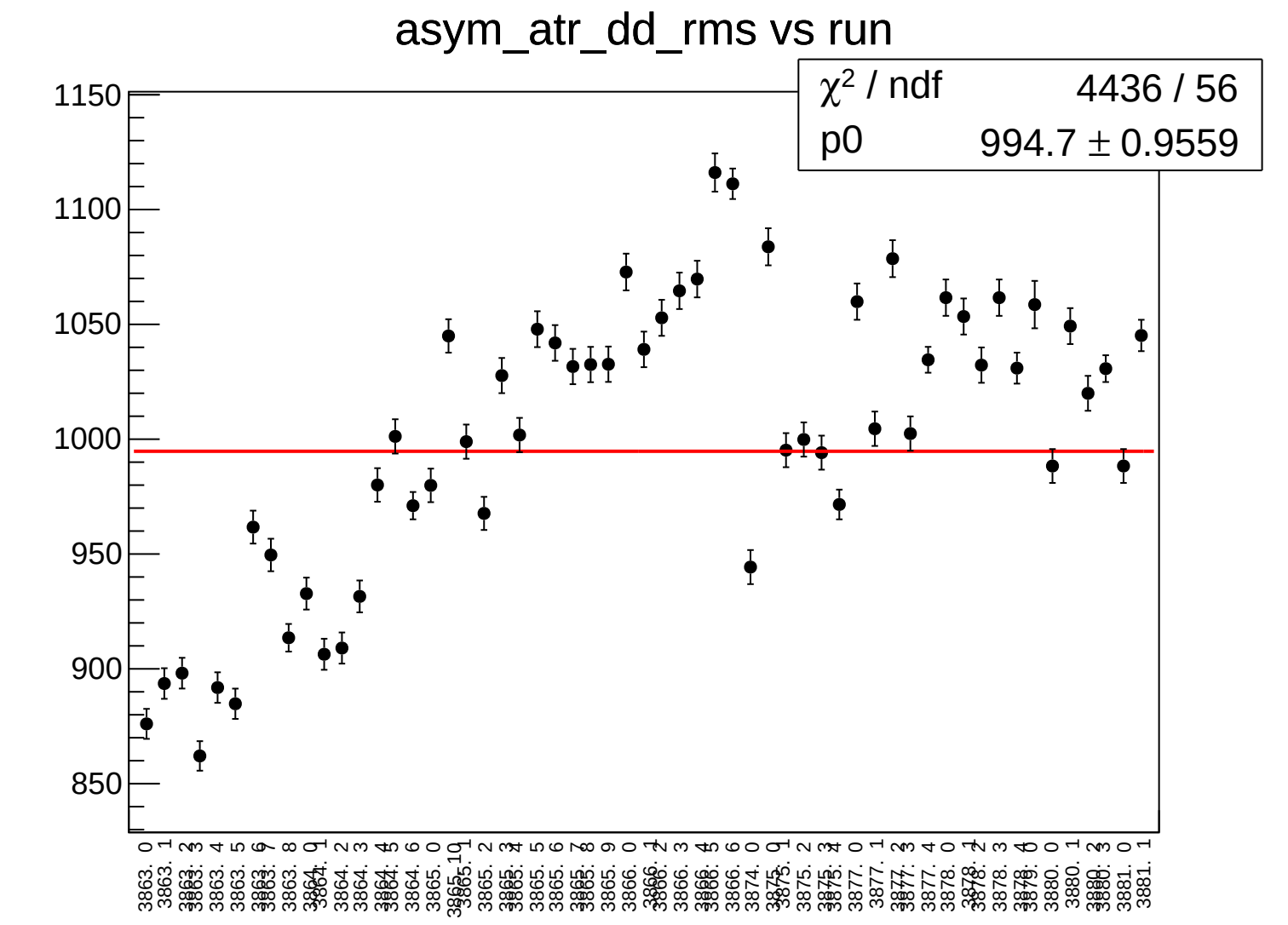

asym_atr_dd_correction_mean vs run
χ² / ndf 49.45 / 56
p0 218.6 ± 1293
pull
Entries 57
Mean 190.9
Std Dev 161.3

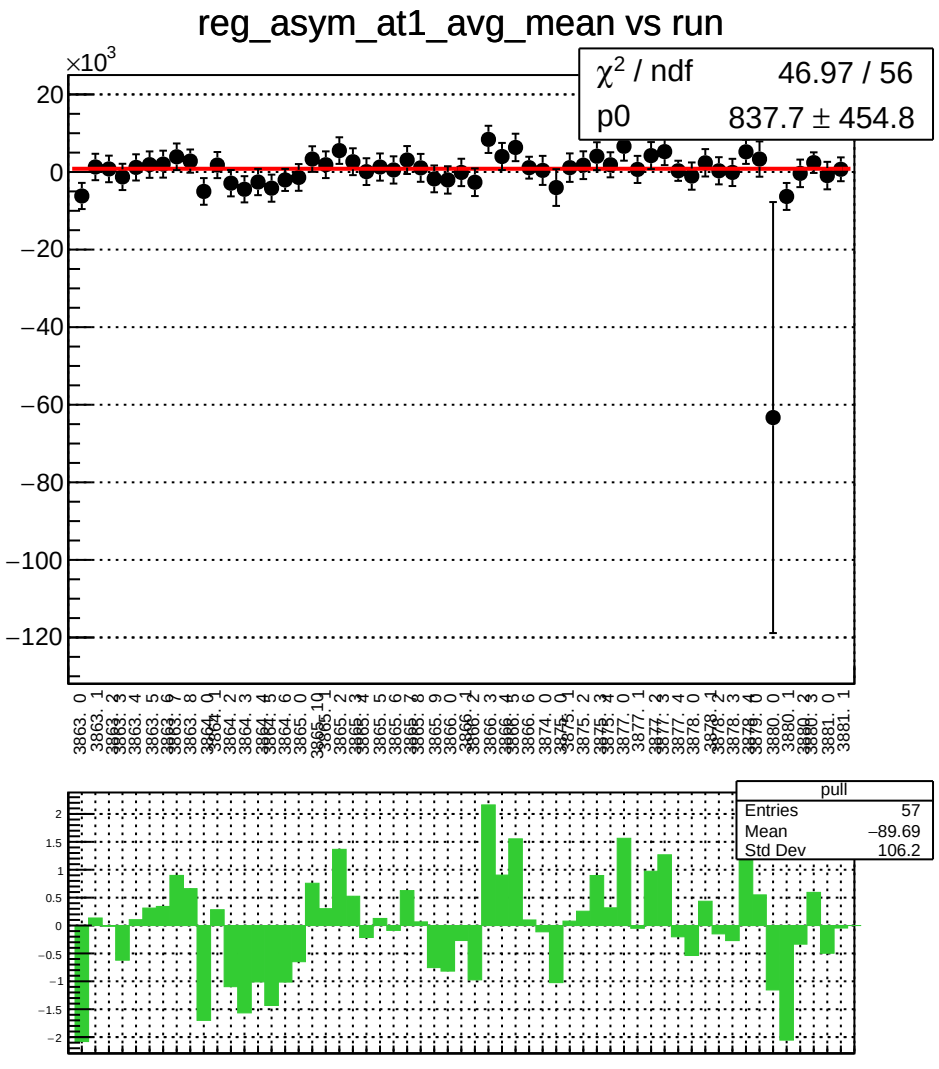

pull1D
Entries 57
Mean 0.03265
Std Dev 0.9309

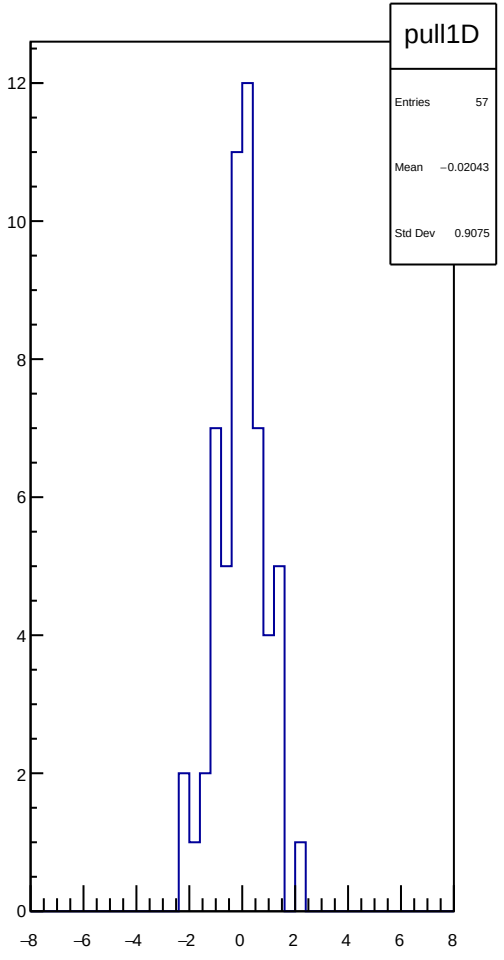

asym_atr_dd_correction_rms vs run
χ² / ndf 5033 / 56
p0 951.4 ± 0.9144
1100
1050
1000
950
900
850
800

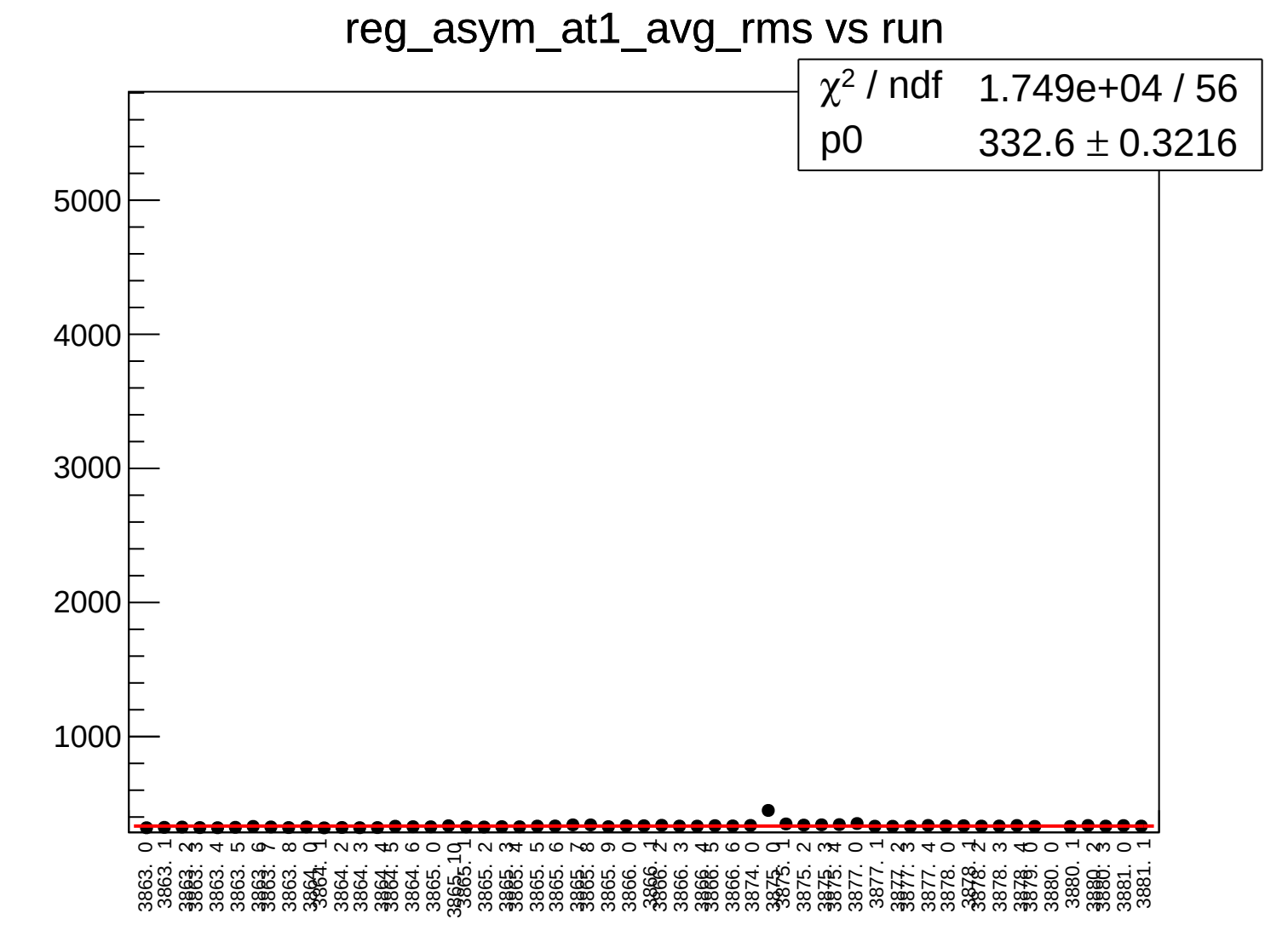

asym_atr_dd_mean vs run
χ² / ndf 47.81 / 56
p0 −670.9 ± 1352
pull
Entries 57
Mean 193.8
Std Dev 164.3

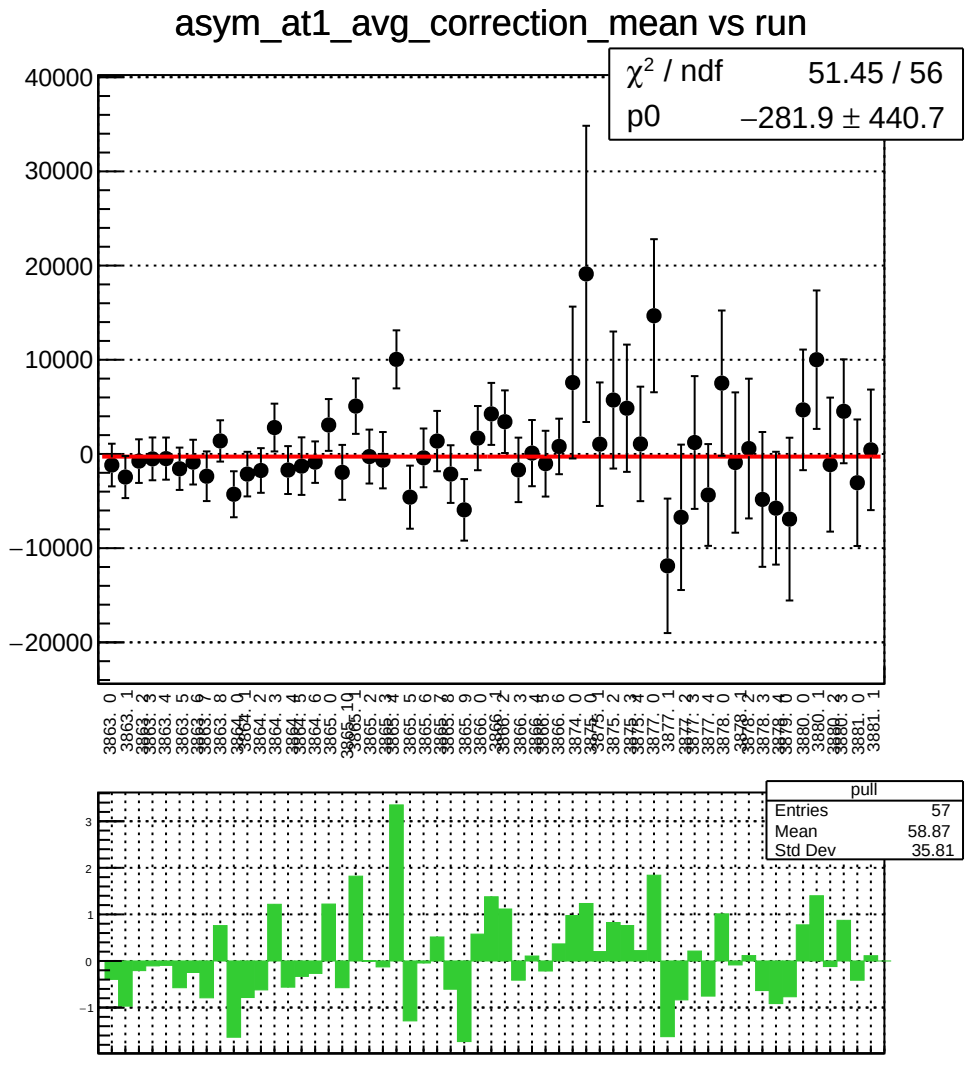

pull1D
Entries 57
Mean −0.02719
Std Dev 0.9155

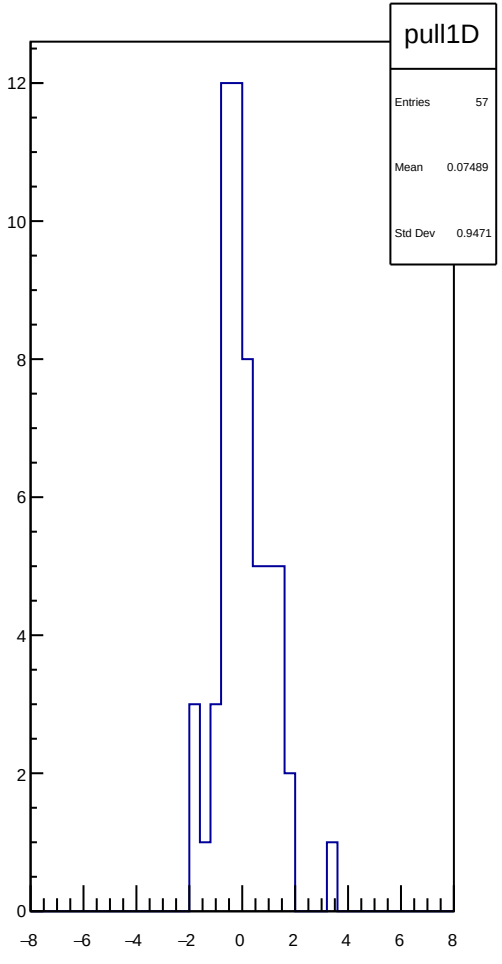

asym_atr_dd_rms vs run
χ² / ndf 4436 / 56
p0 994.7 ± 0.9559
1150
1100
1050
1000
950
900
850
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

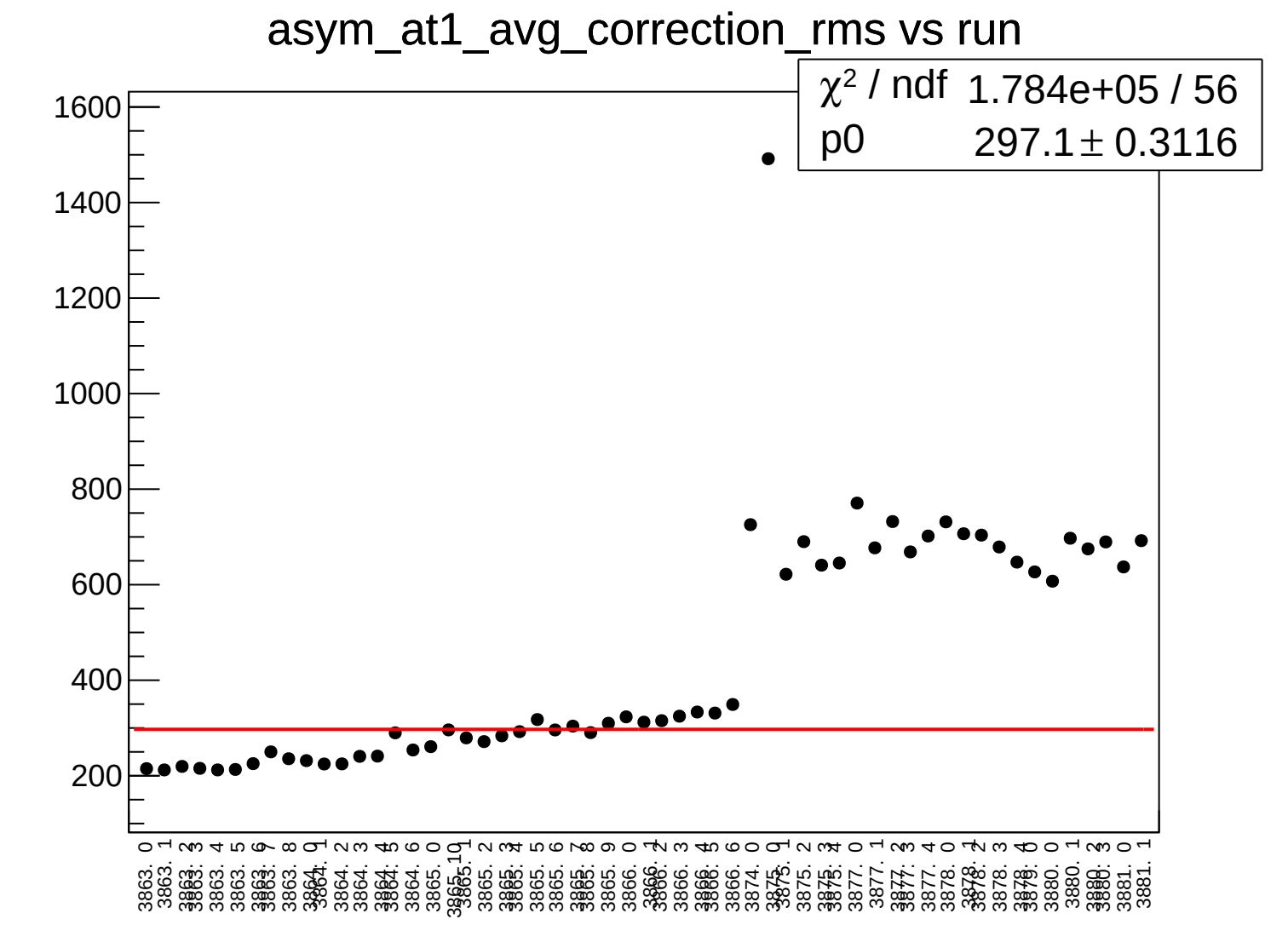

reg_asym_at1_avg_mean vs run
×10^3
χ² / ndf 46.97 / 56
p0 837.7 ± 454.8
pull
Entries 57
Mean −89.69
Std Dev 106.2

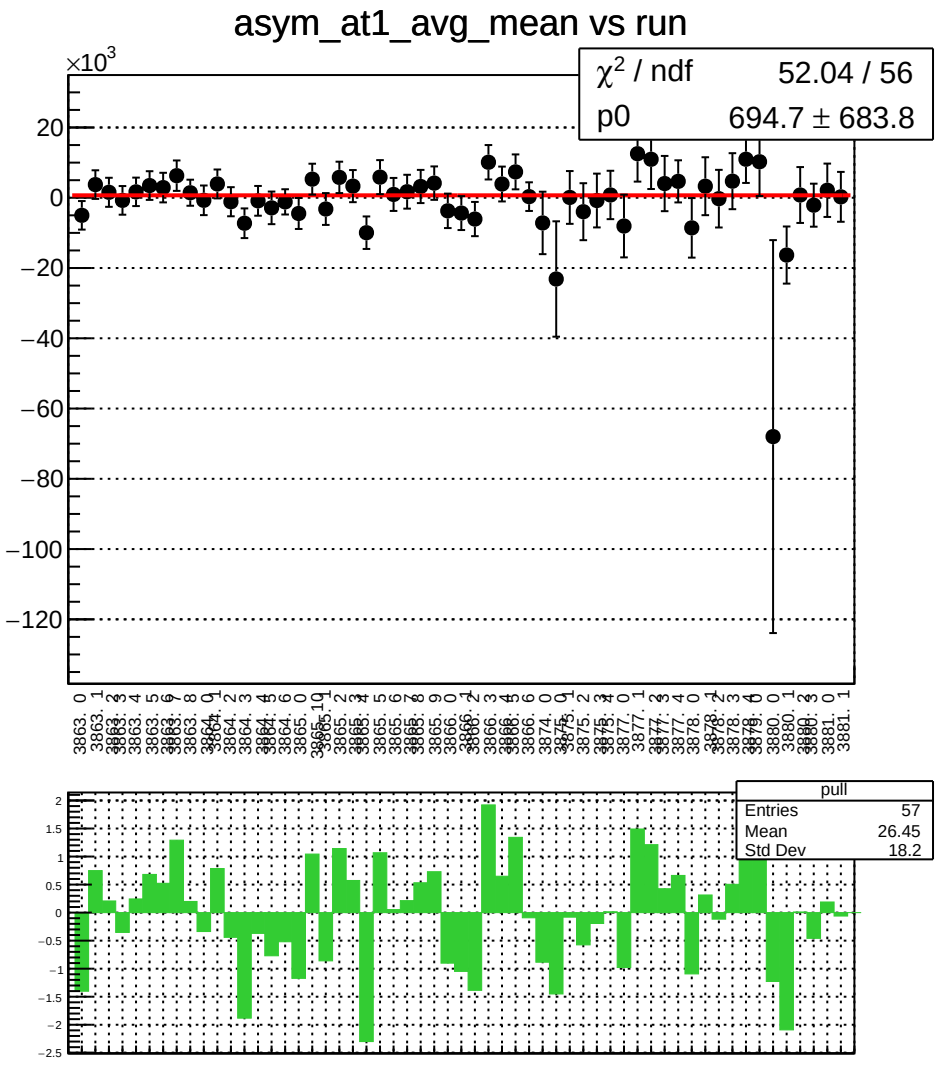

pull1D
Entries 57
Mean −0.02043
Std Dev 0.9075

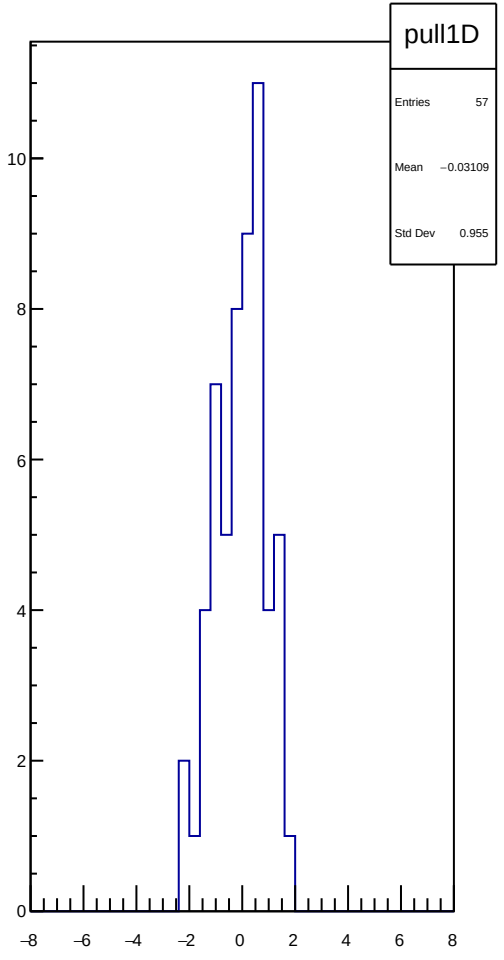

reg_asym_at1_avg_rms vs run
χ² / ndf 1.749e+04 / 56
p0 332.6 ± 0.3216
5000
4000
3000
2000
1000

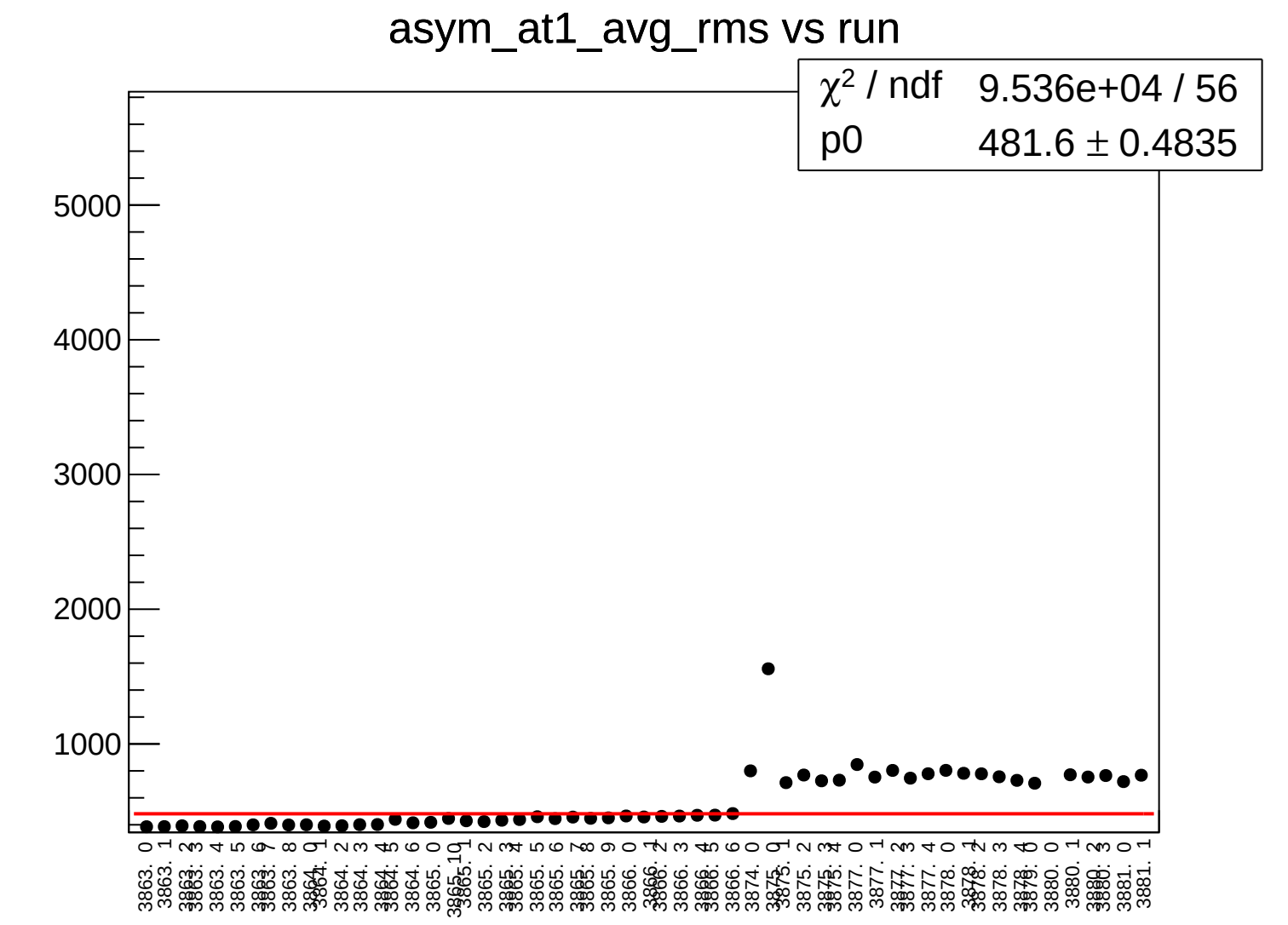

asym_at1_avg_correction_mean vs run
χ² / ndf 51.45 / 56
p0 −281.9 ± 440.7
pull
Entries 57
Mean 58.87
Std Dev 35.81

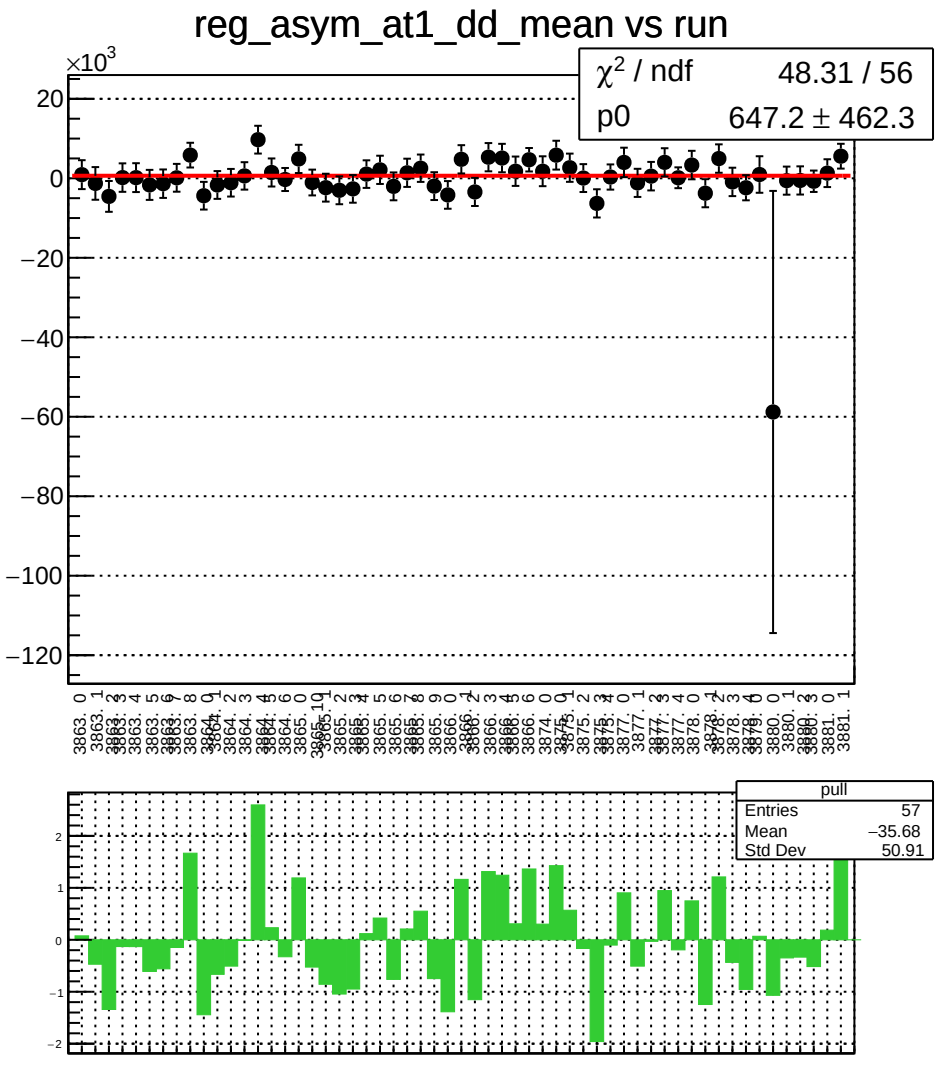

pull1D
Entries 57
Mean 0.07489
Std Dev 0.9471

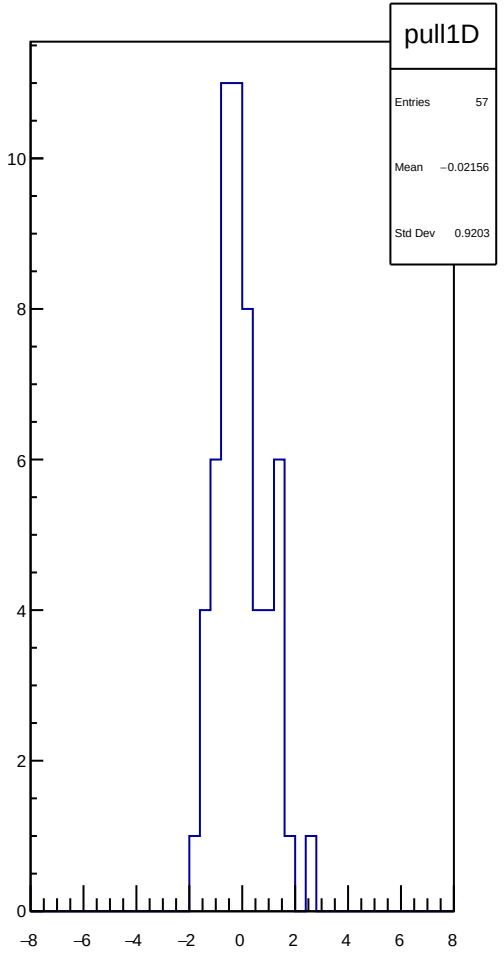

asym_at1_avg_correction_rms vs run
χ² / ndf 1.784e+05 / 56
p0 297.1 ± 0.3116
1600
1400
1200
1000
800
600
400
200
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

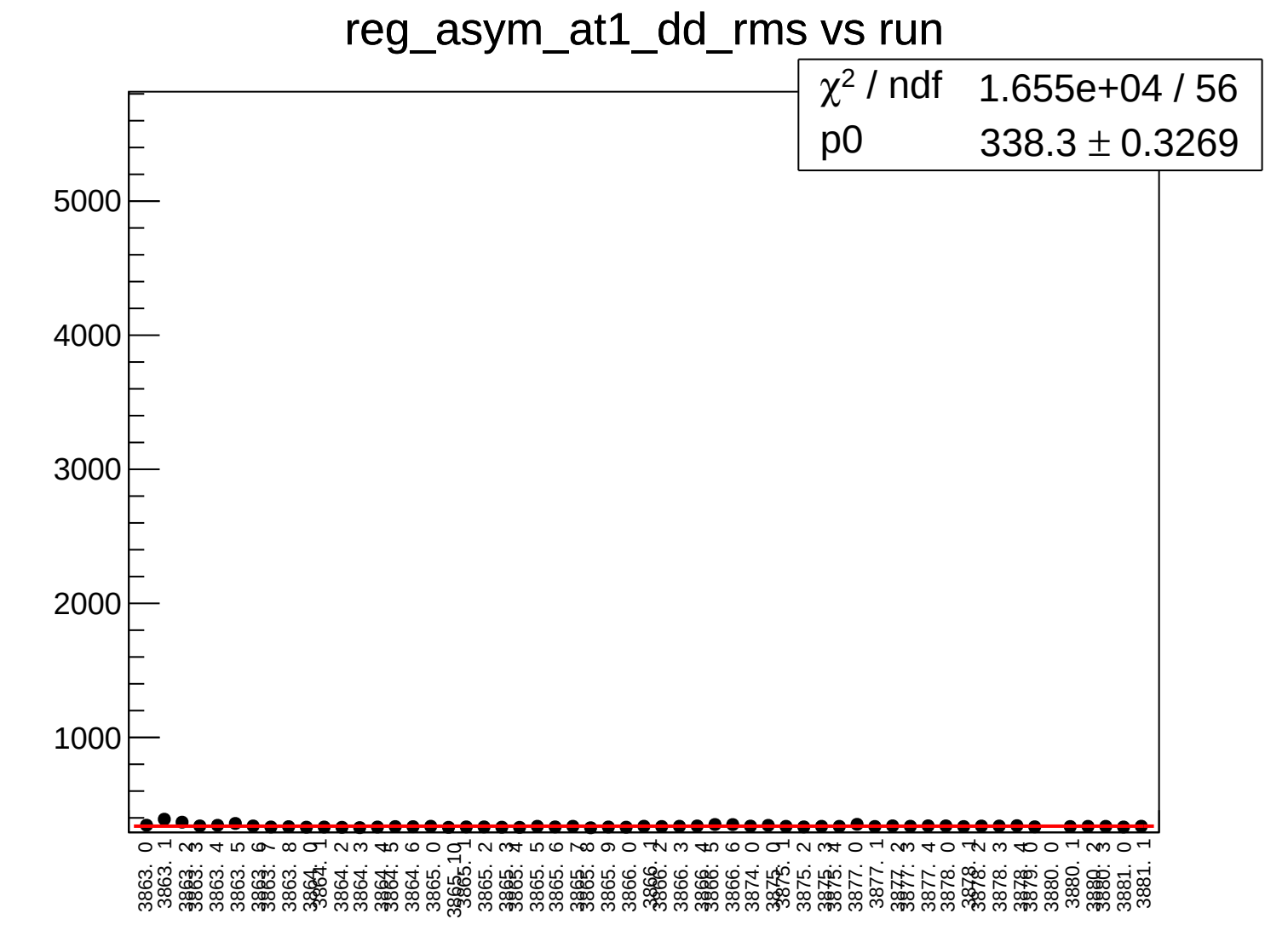

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 52.04 / 56
p0 694.7 ± 683.8
pull
Entries 57
Mean 26.45
Std Dev 18.2

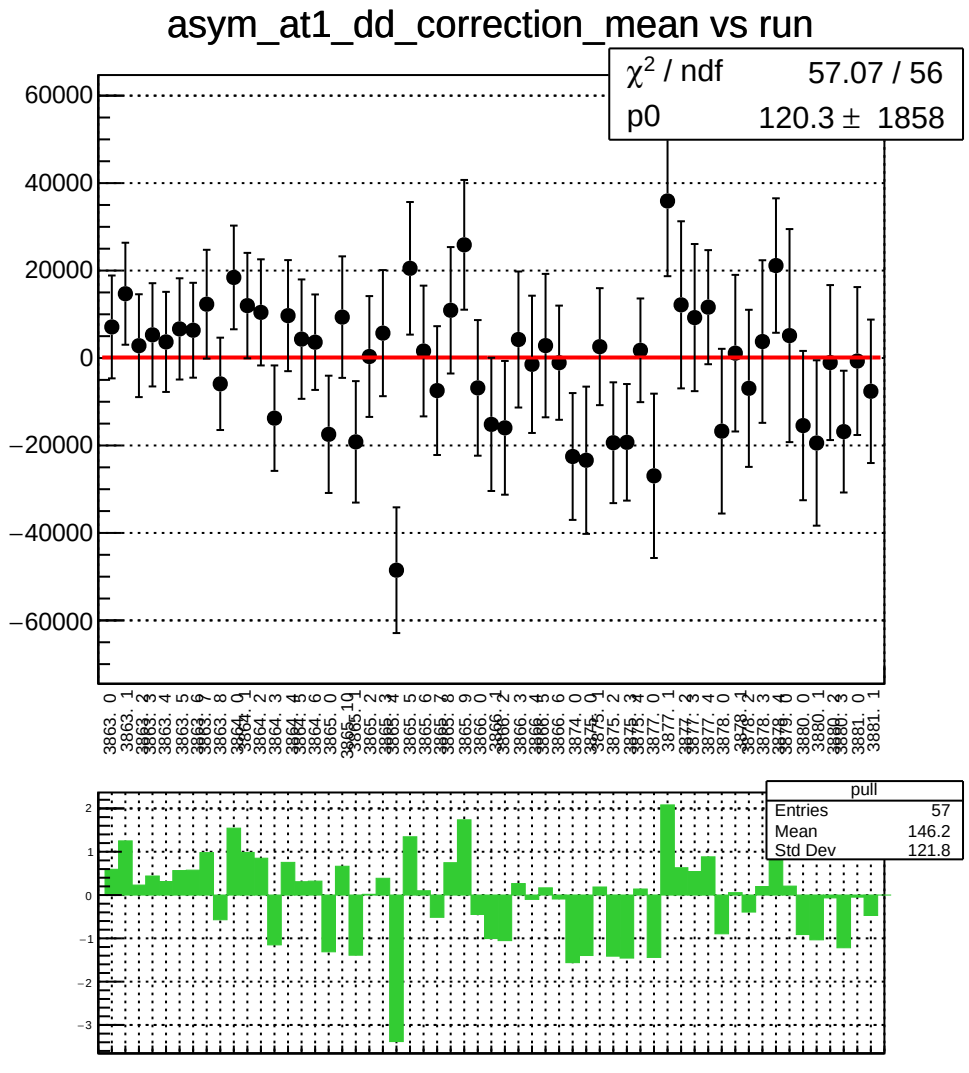

pull1D
Entries 57
Mean −0.03109
Std Dev 0.955

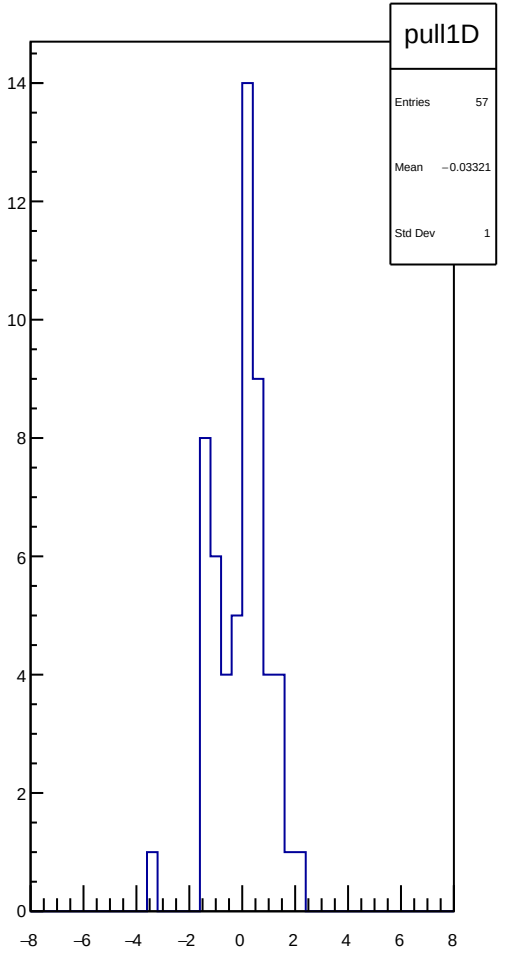

asym_at1_avg_rms vs run
χ^2 / ndf 9.536e+04 / 56
p0 481.6 ± 0.4835
5000
4000
3000
2000
1000

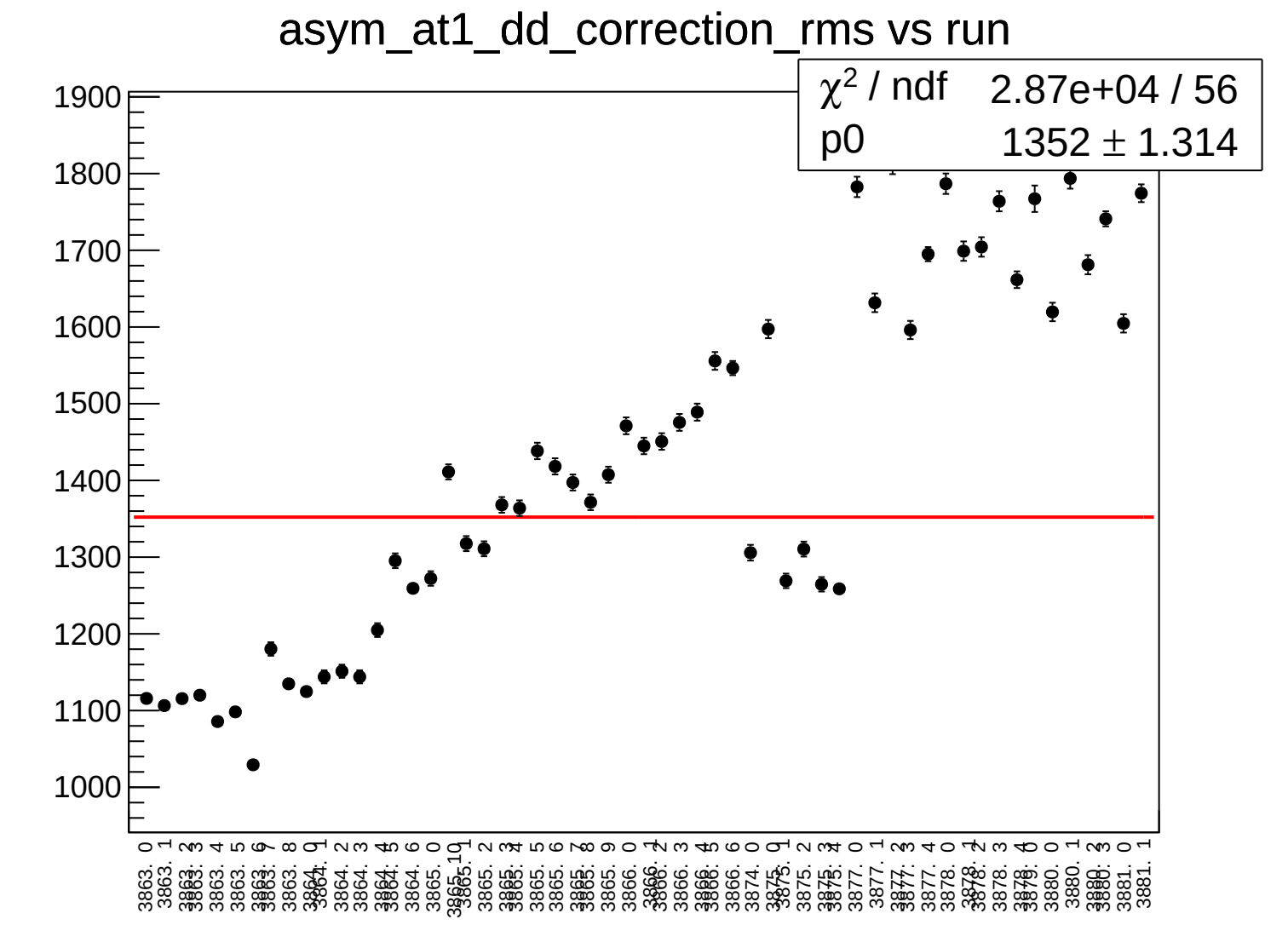

reg_asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 48.31 / 56
p0 647.2 ± 462.3
pull
Entries 57
Mean −35.68
Std Dev 50.91

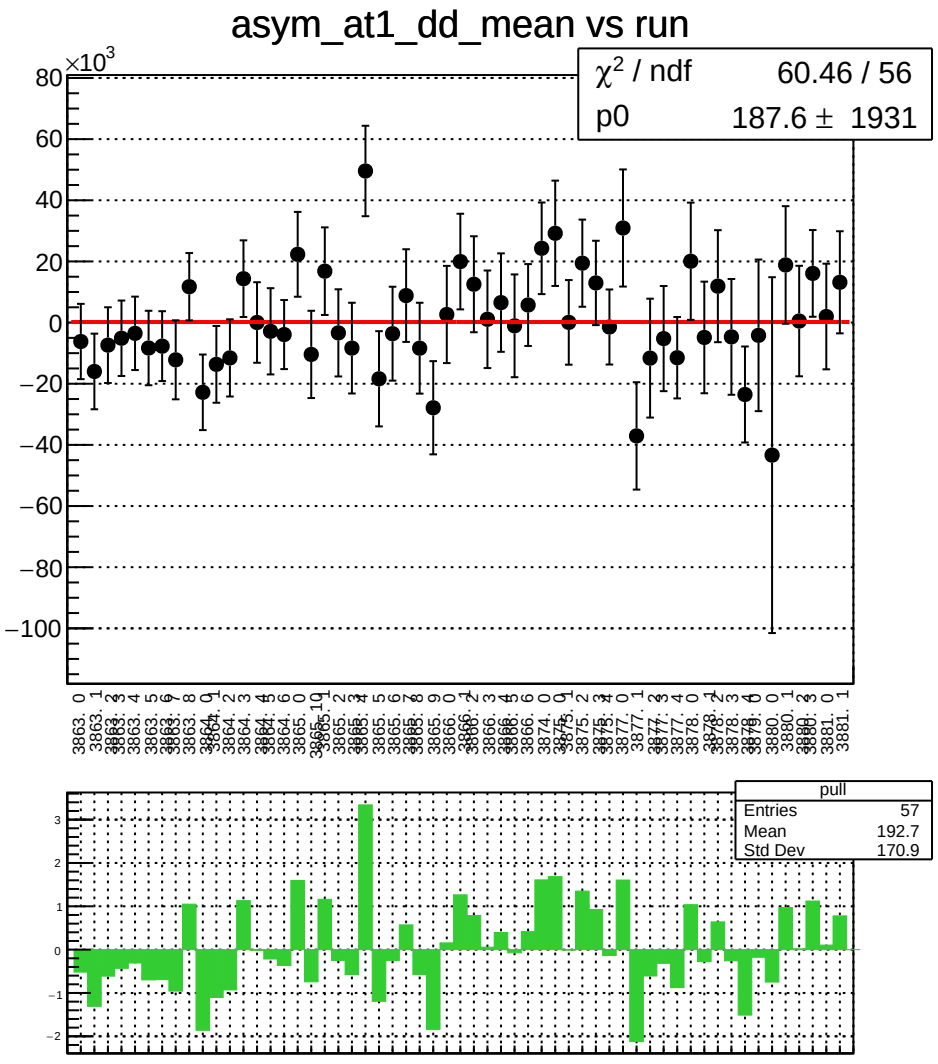

pull1D
Entries 57
Mean −0.02156
Std Dev 0.9203

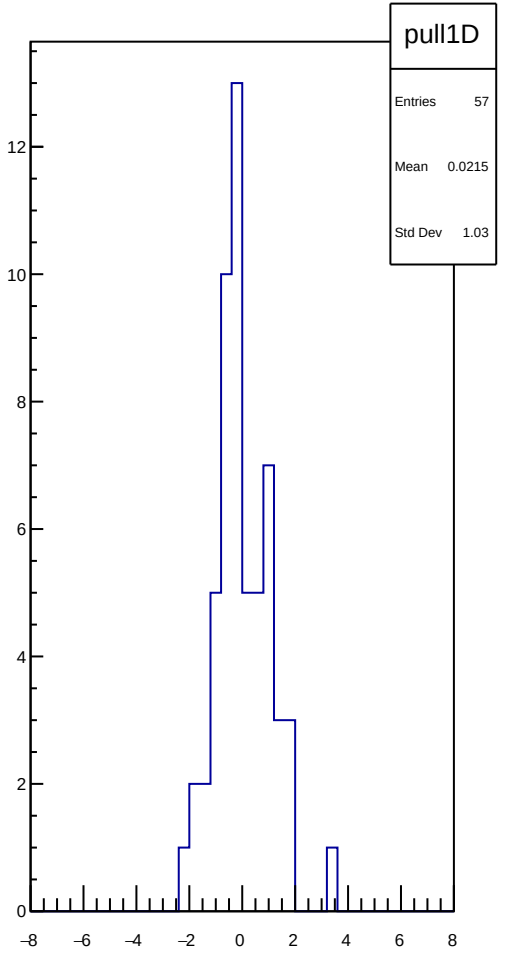

reg_asym_at1_dd_rms vs run
χ² / ndf 1.655e+04 / 56
p0 338.3 ± 0.3269
5000
4000
3000
2000
1000

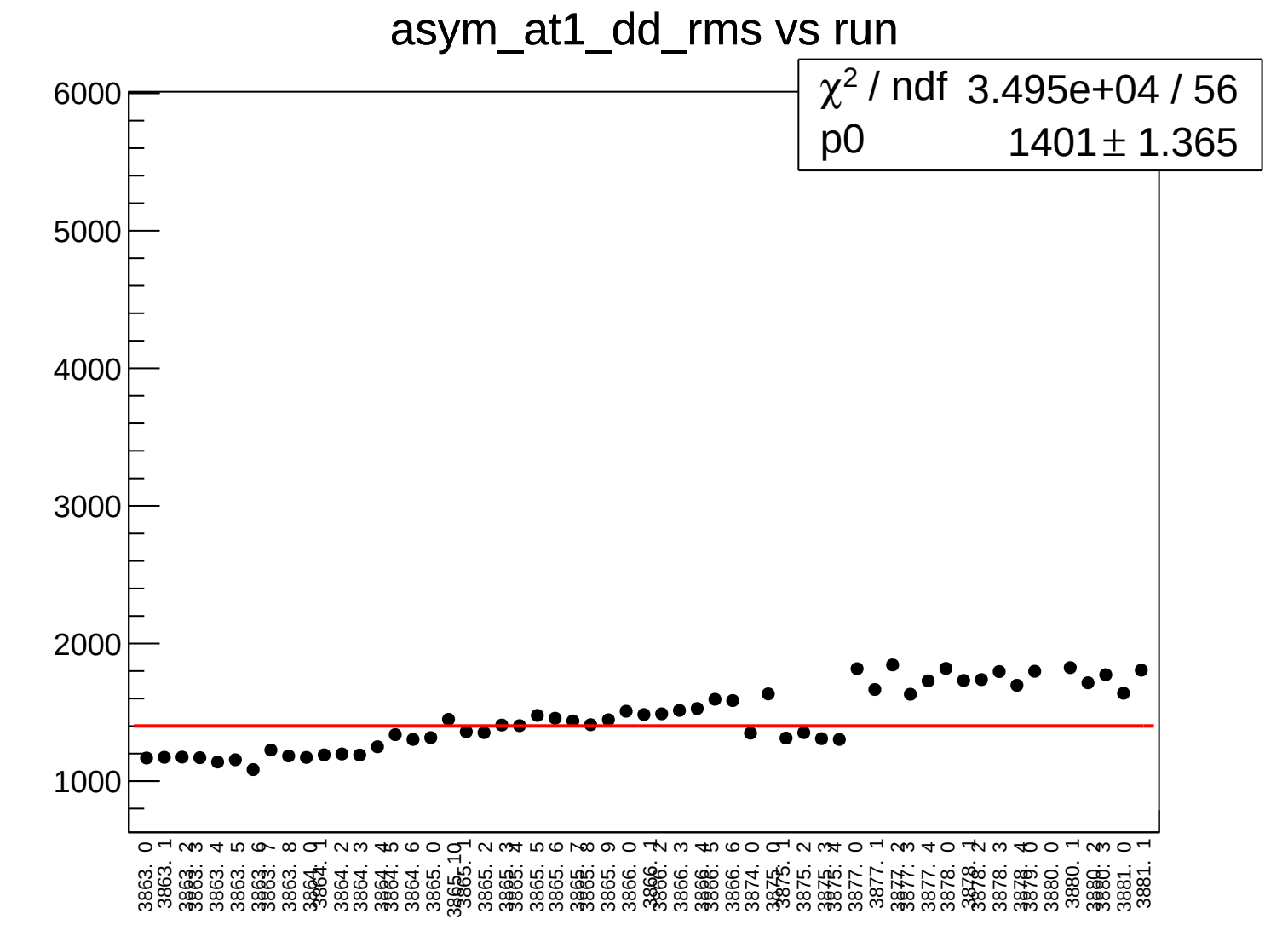

asym_at1_dd_correction_mean vs run
χ² / ndf 57.07 / 56
p0 120.3 ± 1858
pull
Entries 57
Mean 146.2
Std Dev 121.8

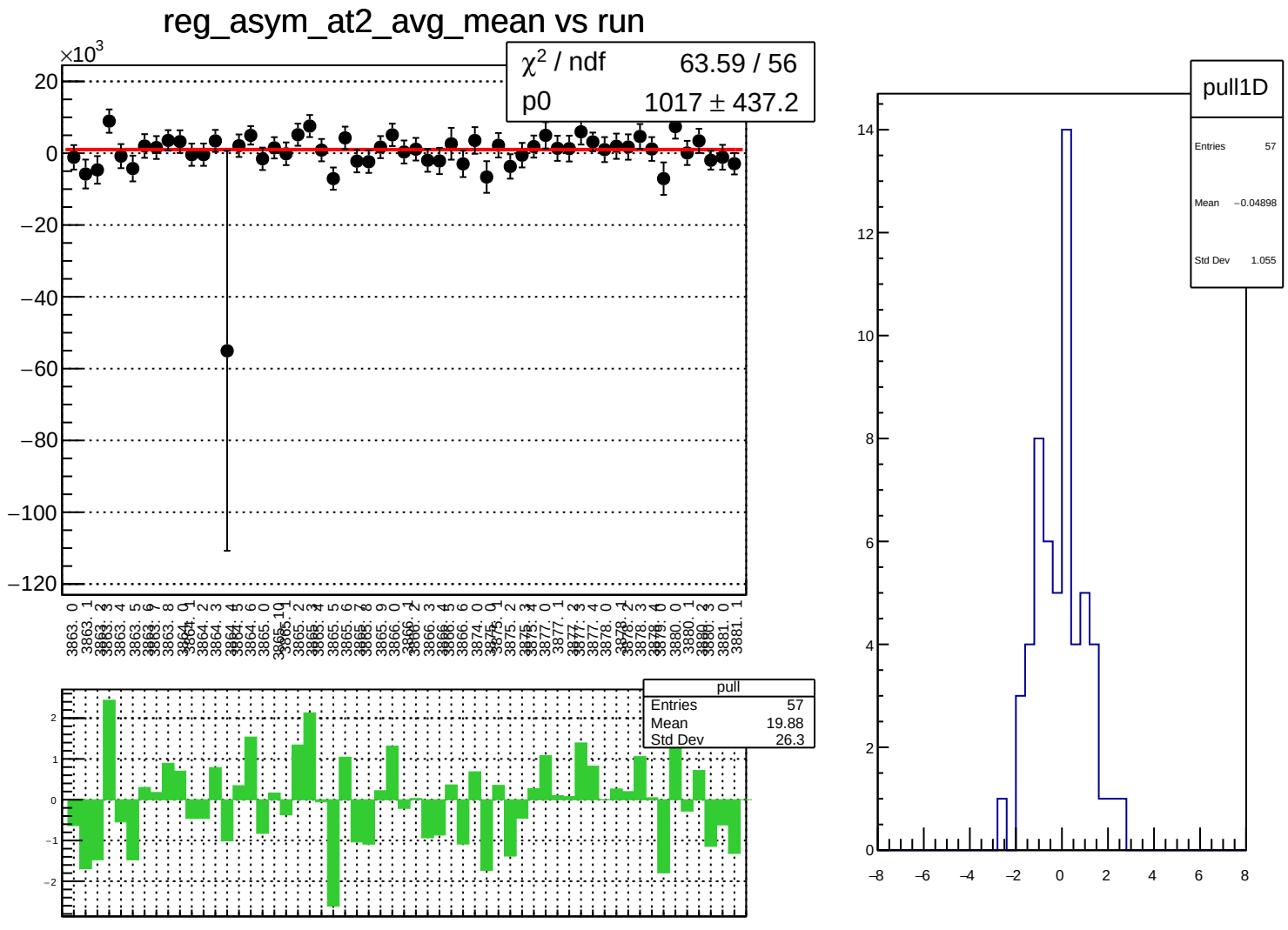

pull1D
Entries 57
Mean −0.03321
Std Dev 1

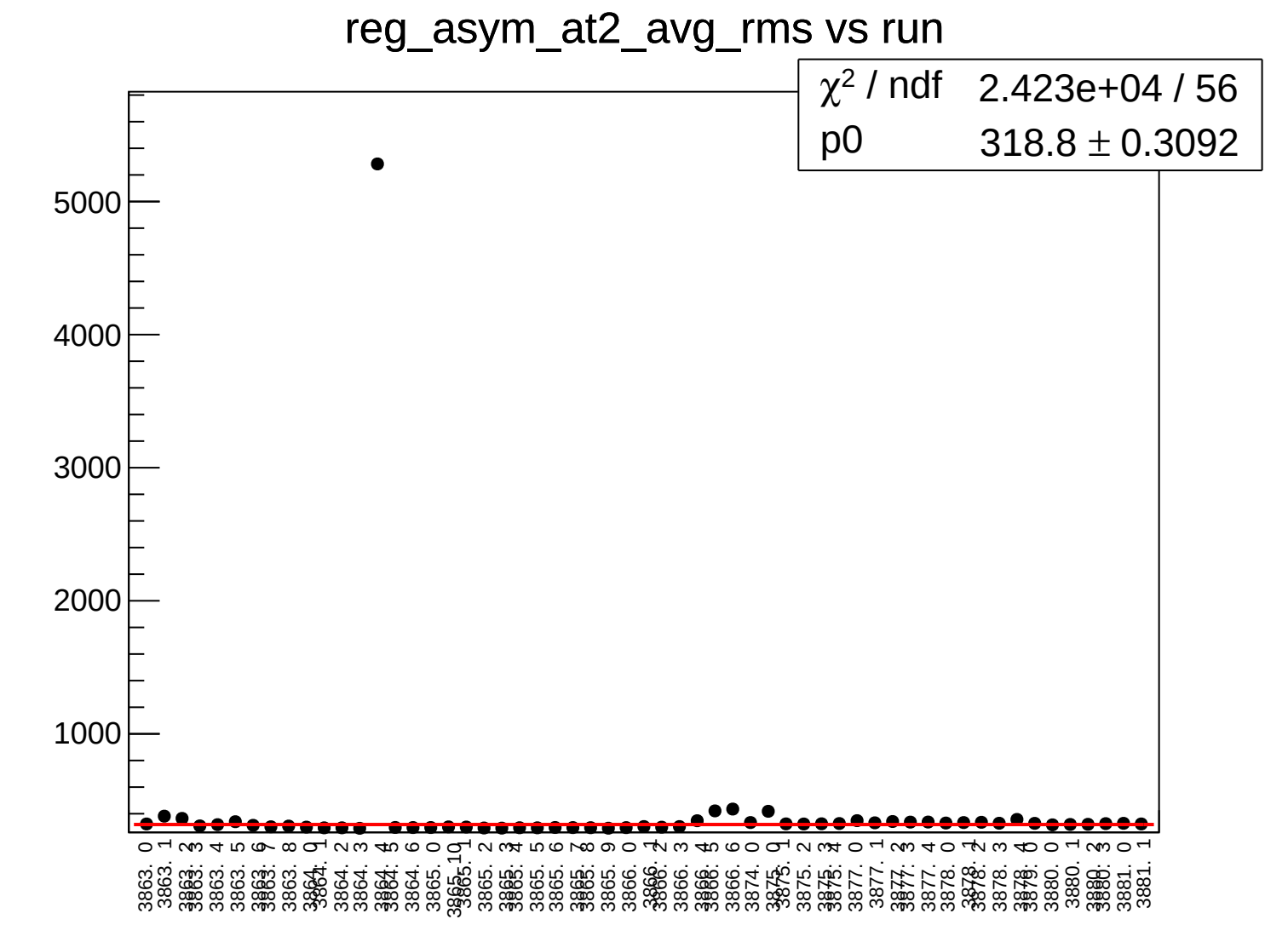

asym_at1_dd_correction_rms vs run
χ² / ndf 2.87e+04 / 56
p0 1352 ± 1.314
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000

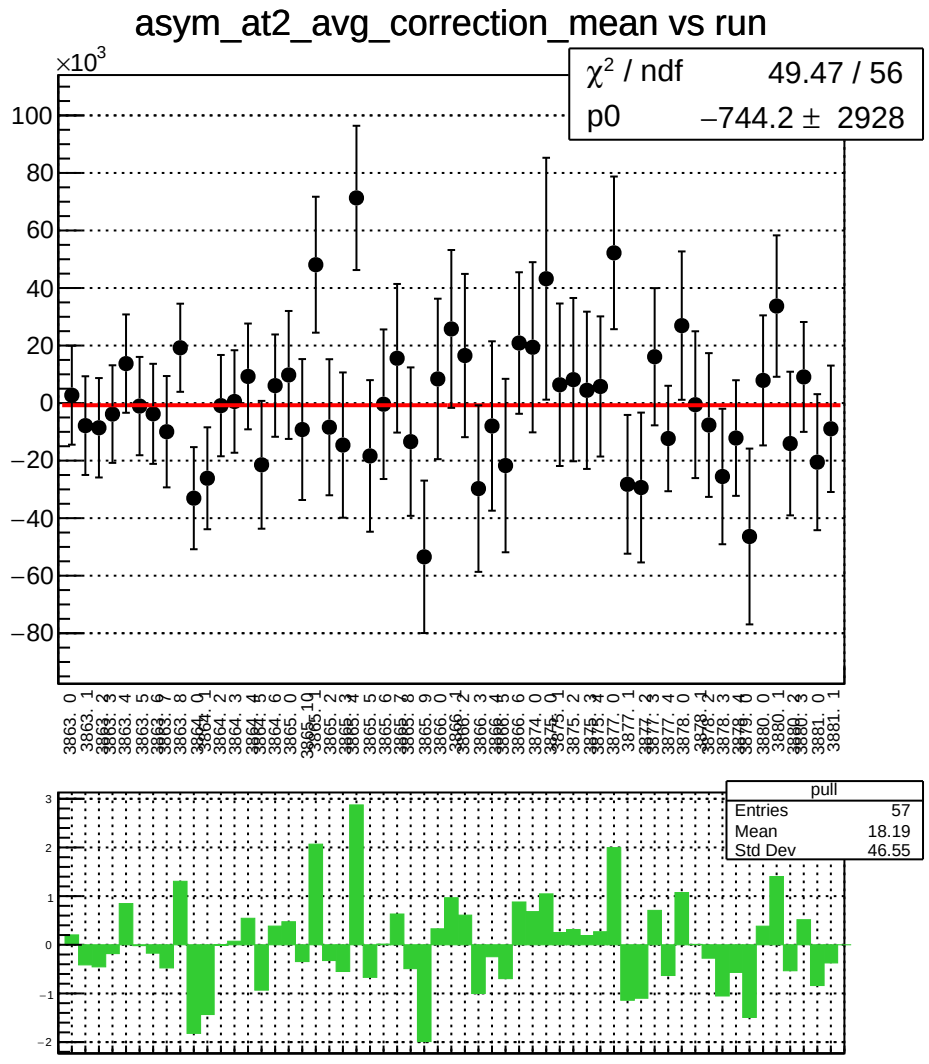

asym_at1_dd_mean vs run
×10^3
χ² / ndf 60.46 / 56
p0 187.6 ± 1931
pull
Entries 57
Mean 192.7
Std Dev 170.9

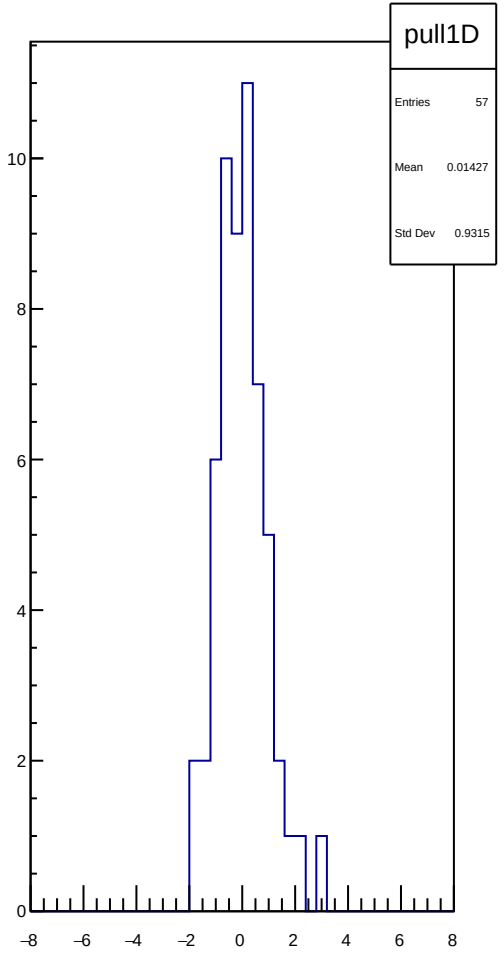

pull1D
Entries 57
Mean 0.0215
Std Dev 1.03

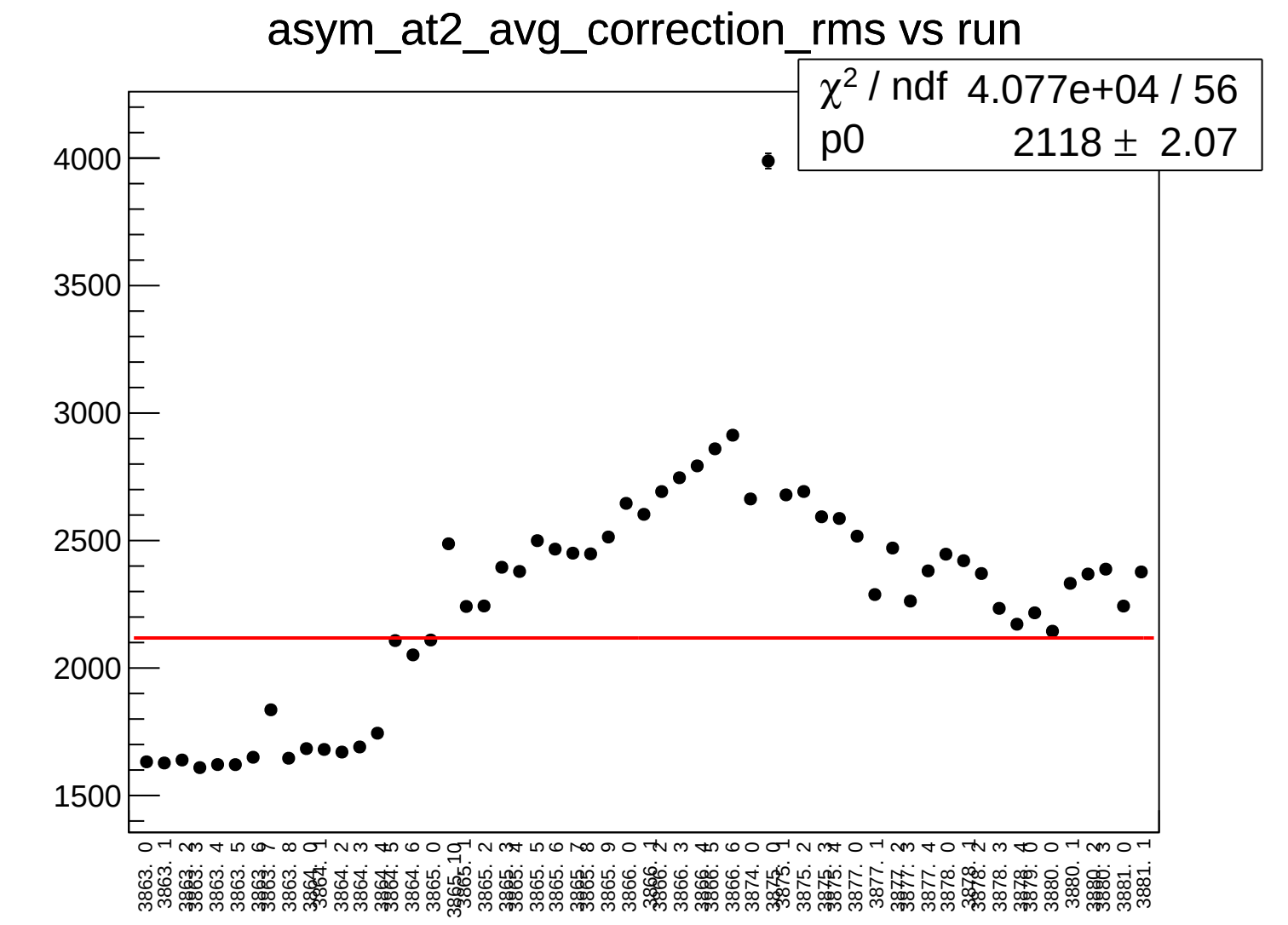

asym_at1_dd_rms vs run
χ² / ndf 3.495e+04 / 56
p0 1401 ± 1.365
6000
5000
4000
3000
2000
1000
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

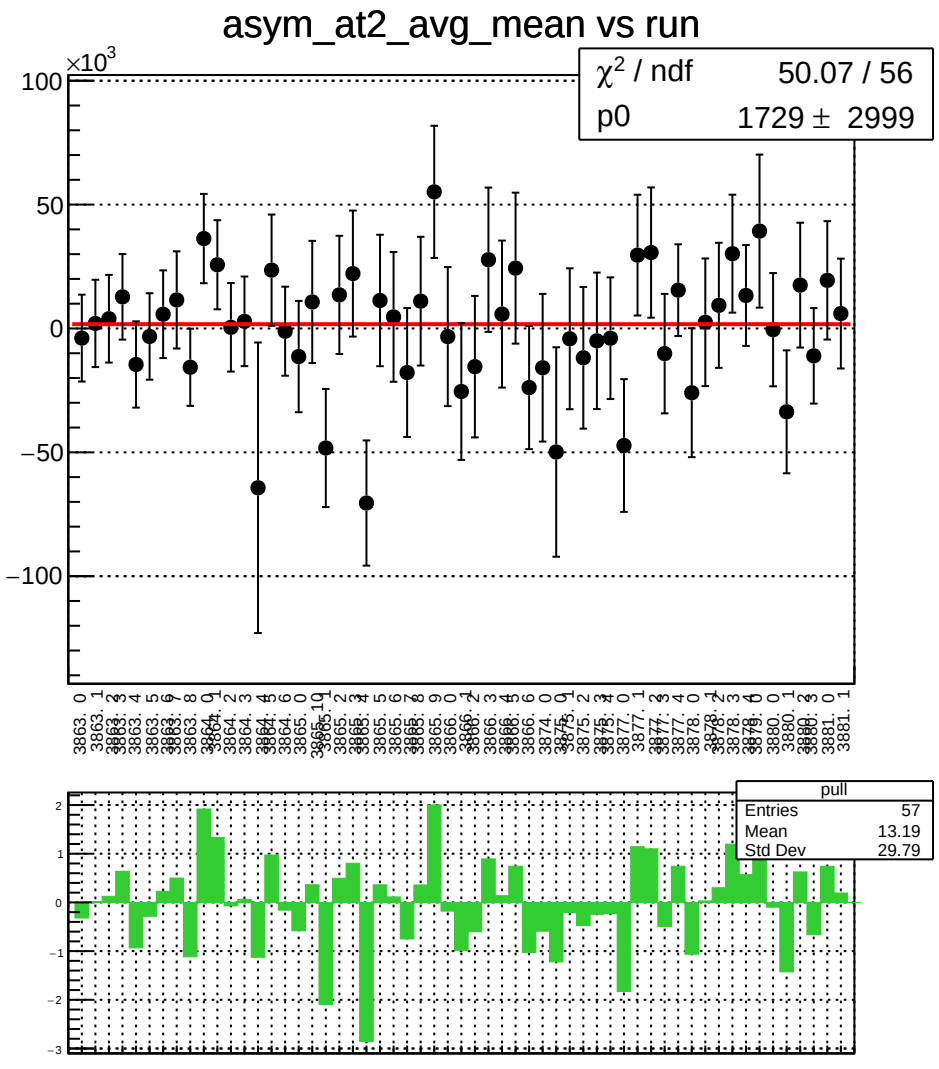

reg_asym_at2_avg_mean vs run
×10^3
χ² / ndf 63.59 / 56
p0 1017 ± 437.2
pull
Entries 57
Mean 19.88
Std Dev 26.3
pull1D
Entries 57
Mean −0.04898
Std Dev 1.055

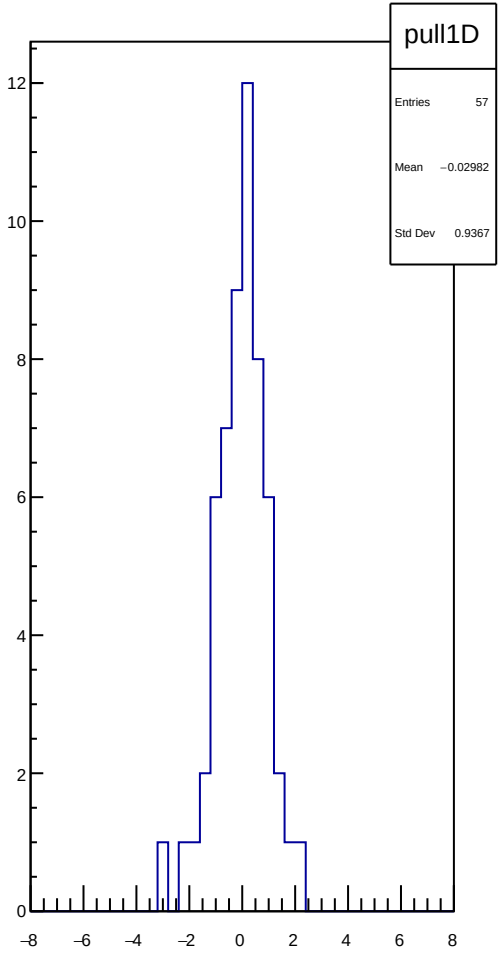

reg_asym_at2_avg_rms vs run
χ² / ndf 2.423e+04 / 56
p0 318.8 ± 0.3092
5000
4000
3000
2000
1000

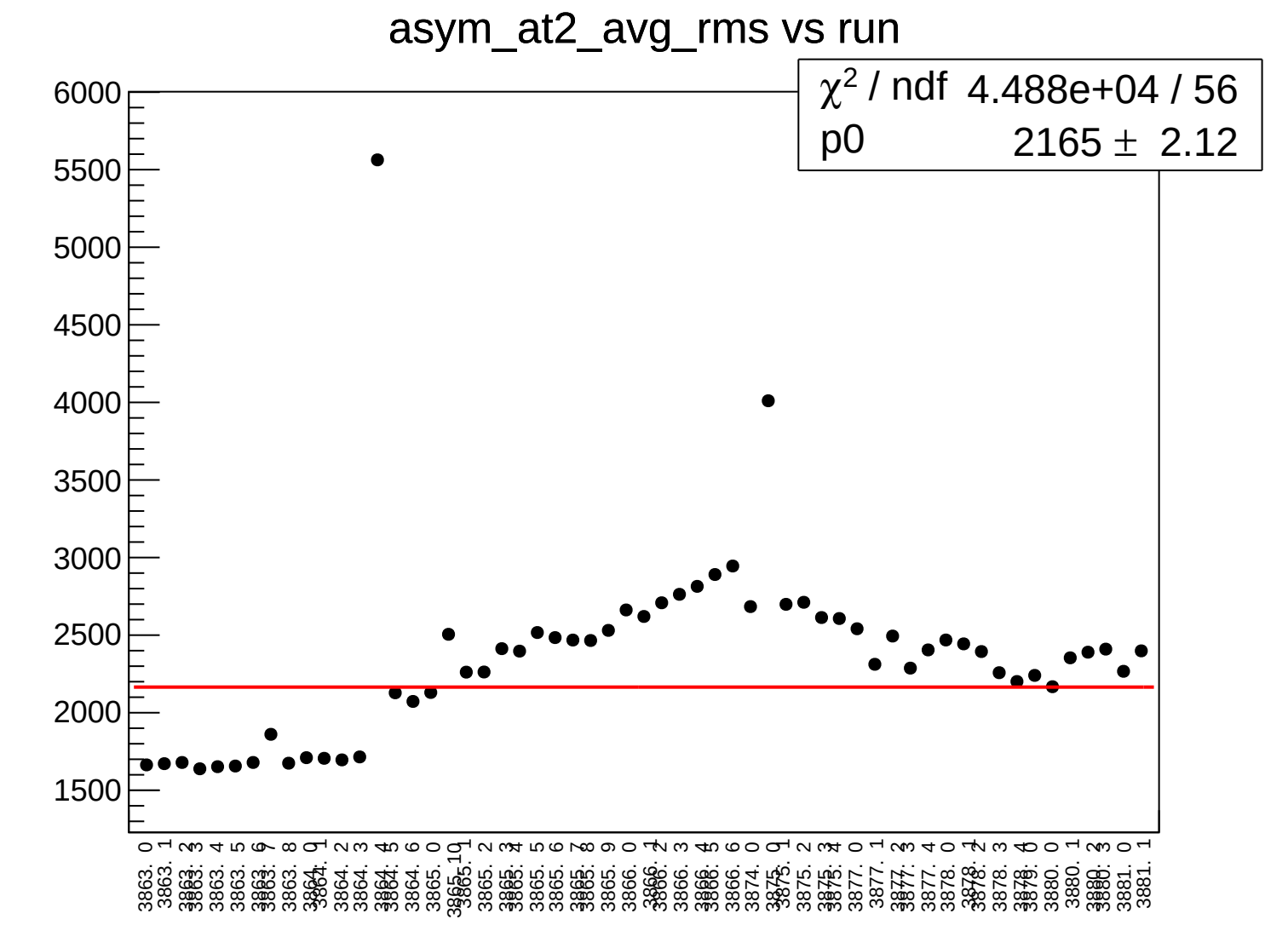

asym_at2_avg_correction_mean vs run
χ² / ndf 49.47 / 56
p0 −744.2 ± 2928
pull
Entries 57
Mean 18.19
Std Dev 46.55

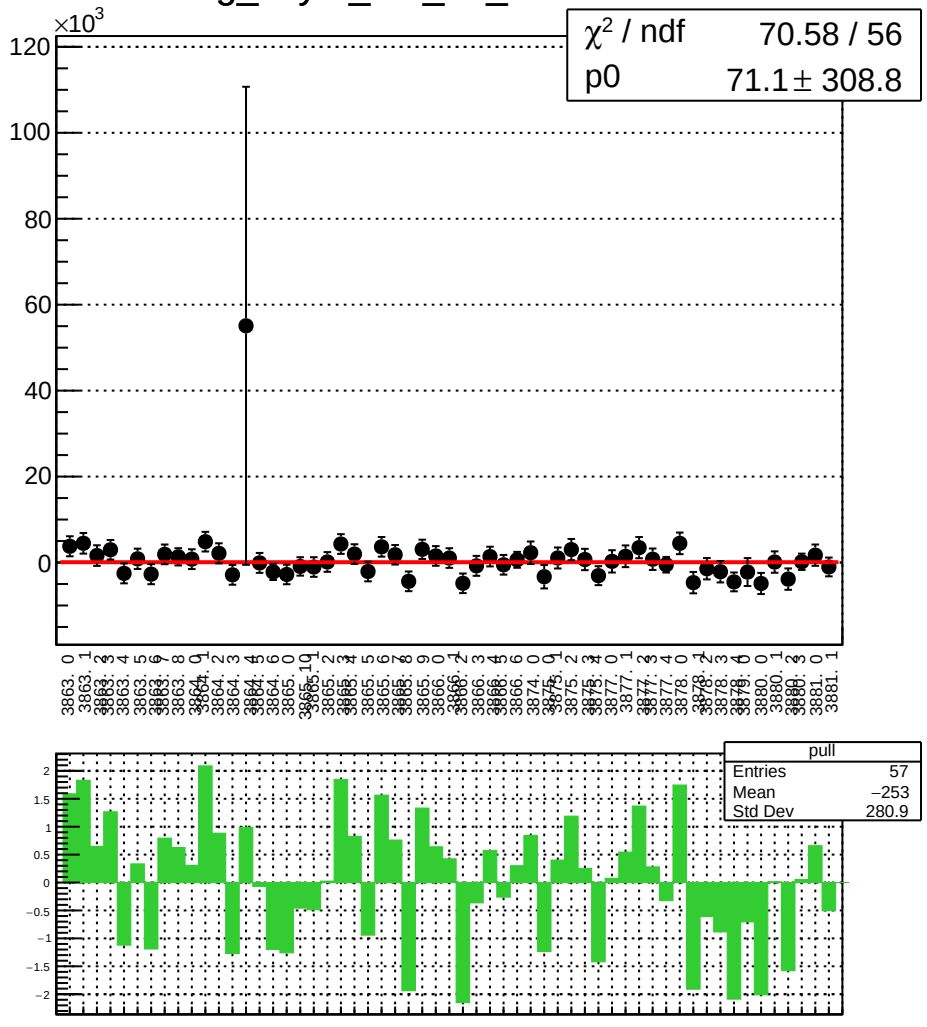

pull1D
Entries 57
Mean 0.01427
Std Dev 0.9315

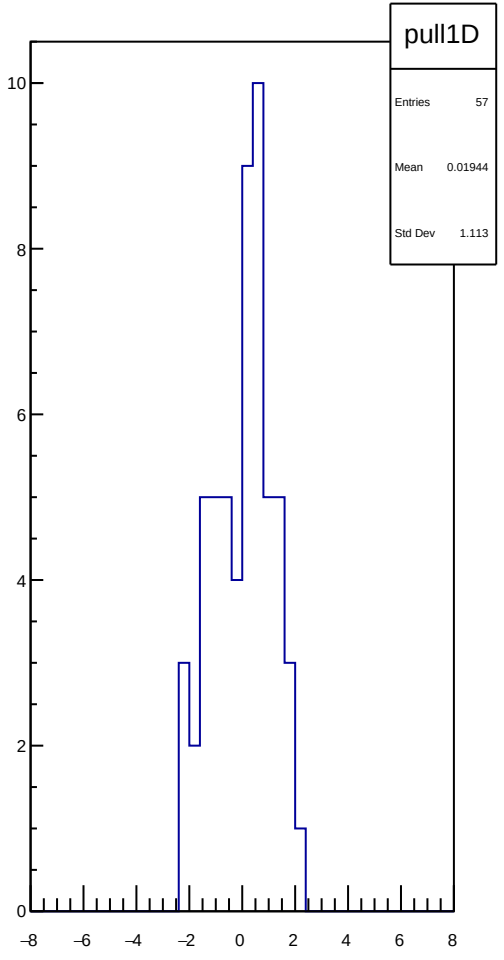

asym_at2_avg_correction_rms vs run
χ² / ndf 4.077e+04 / 56
p0 2118 ± 2.07
4000
3500
3000
2500
2000
1500

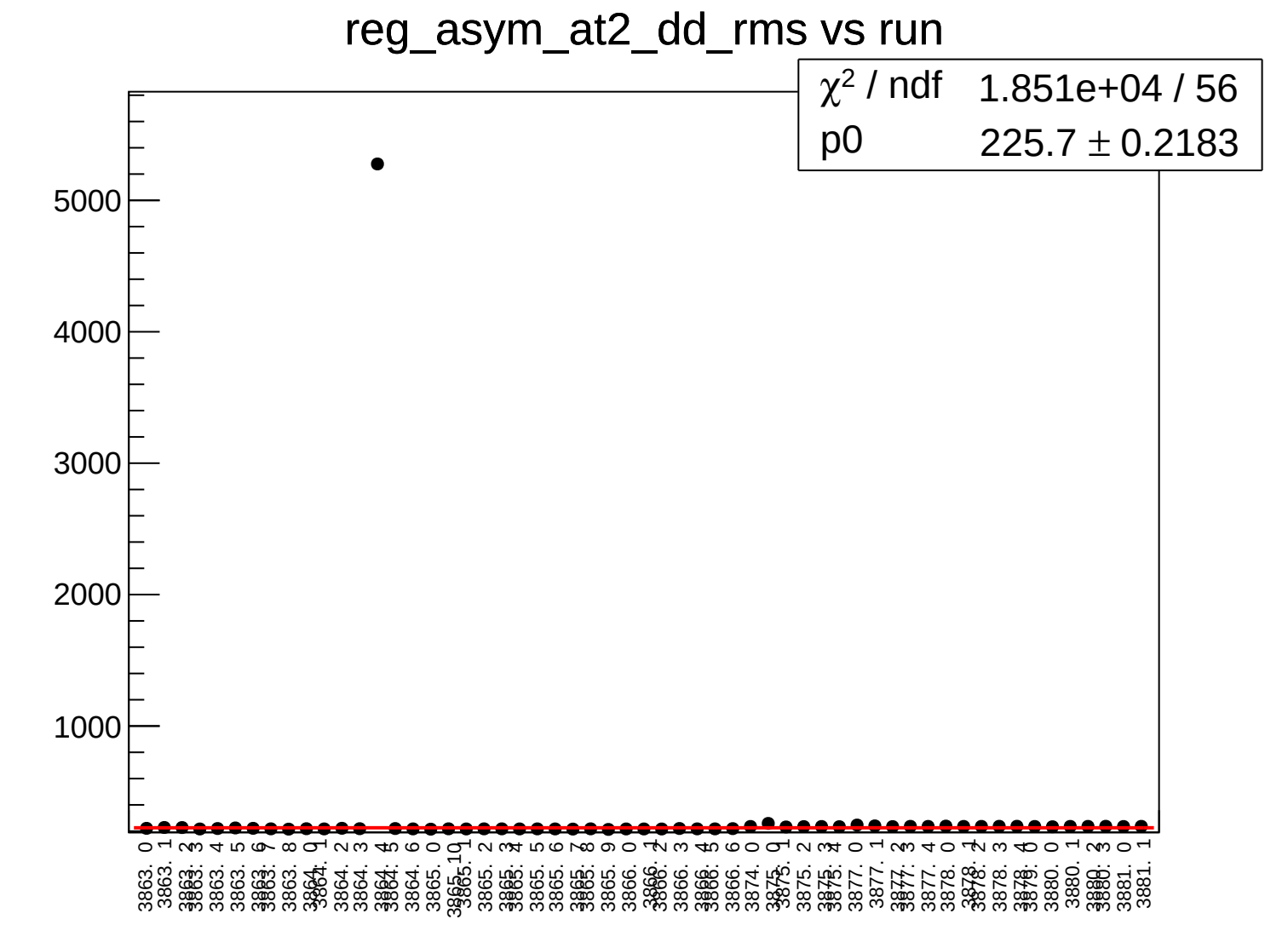

asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 50.07 / 56
p0 1729 ± 2999
pull
Entries 57
Mean 13.19
Std Dev 29.79

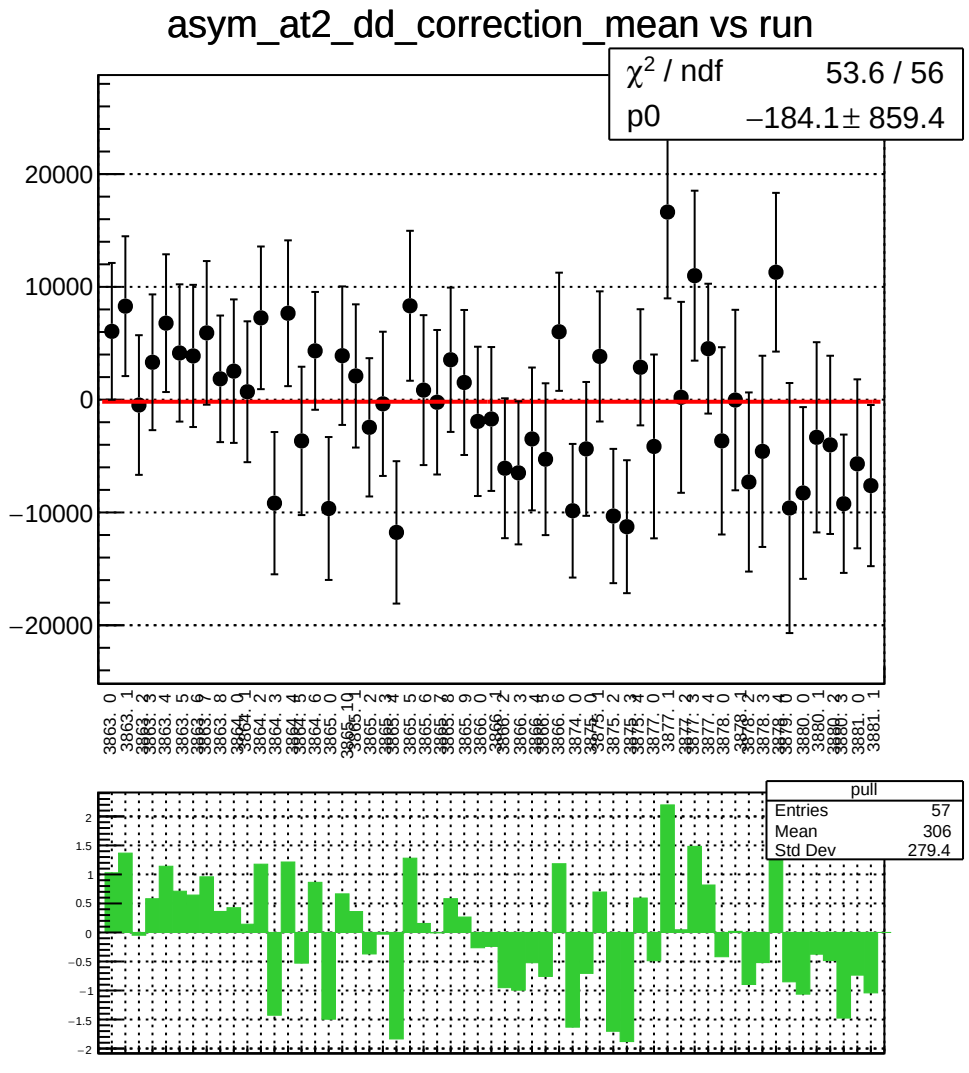

pull1D
Entries 57
Mean −0.02982
Std Dev 0.9367

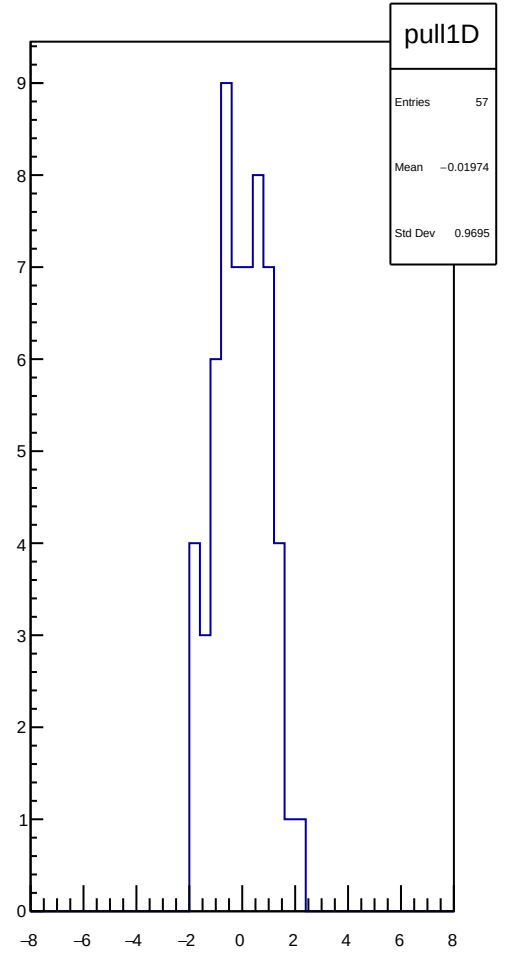

asym_at2_avg_rms vs run
χ² / ndf 4.488e+04 / 56
p0 2165 ± 2.12
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

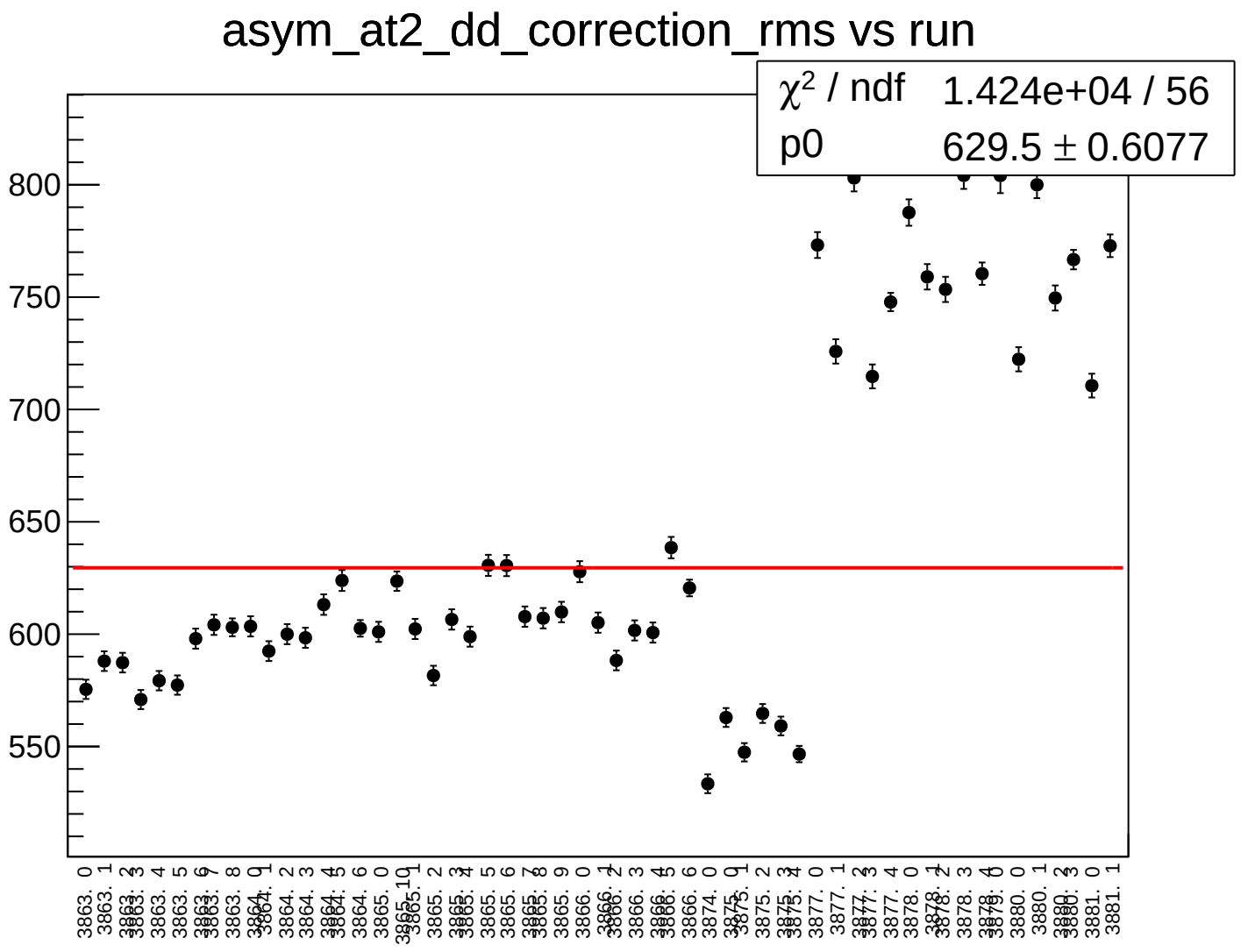

reg_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 70.58 / 56
p0 71.1 ± 308.8
pull
Entries 57
Mean −253
Std Dev 280.9

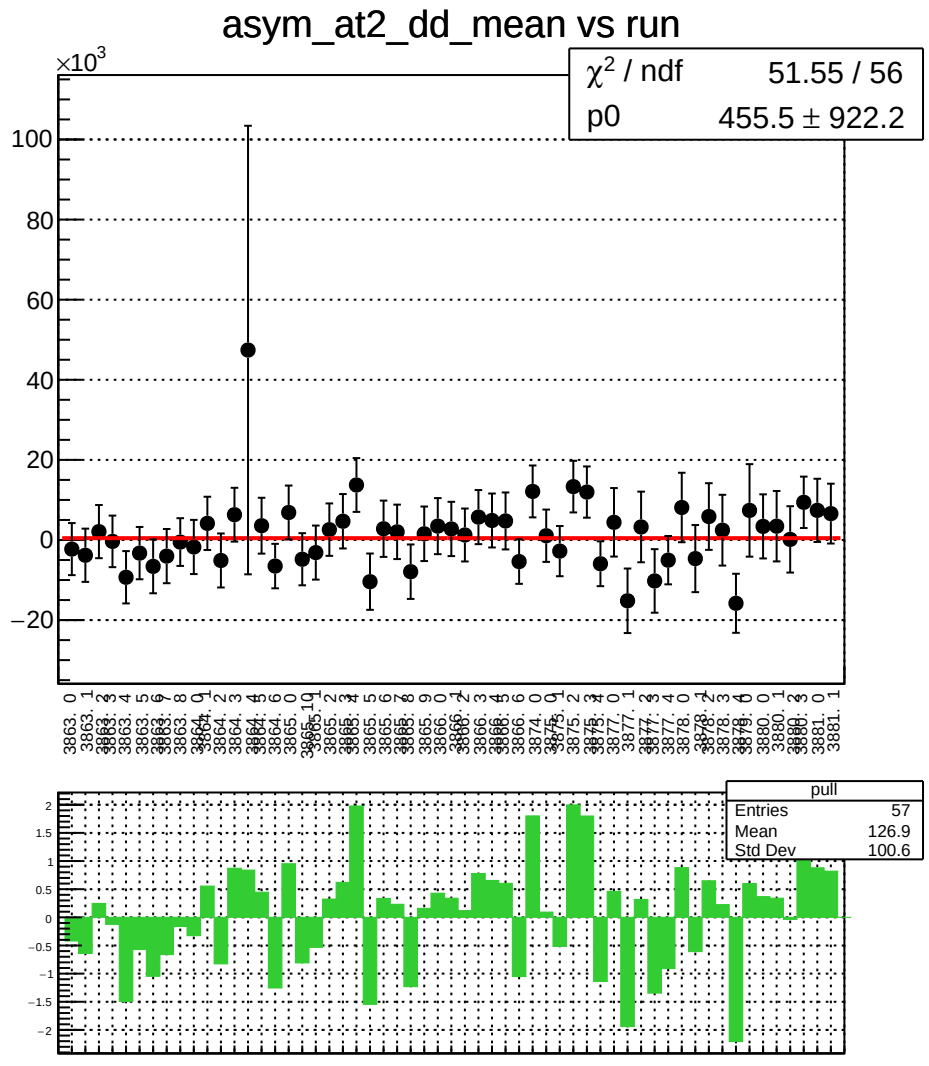

pull1D
Entries 57
Mean 0.01944
Std Dev 1.113

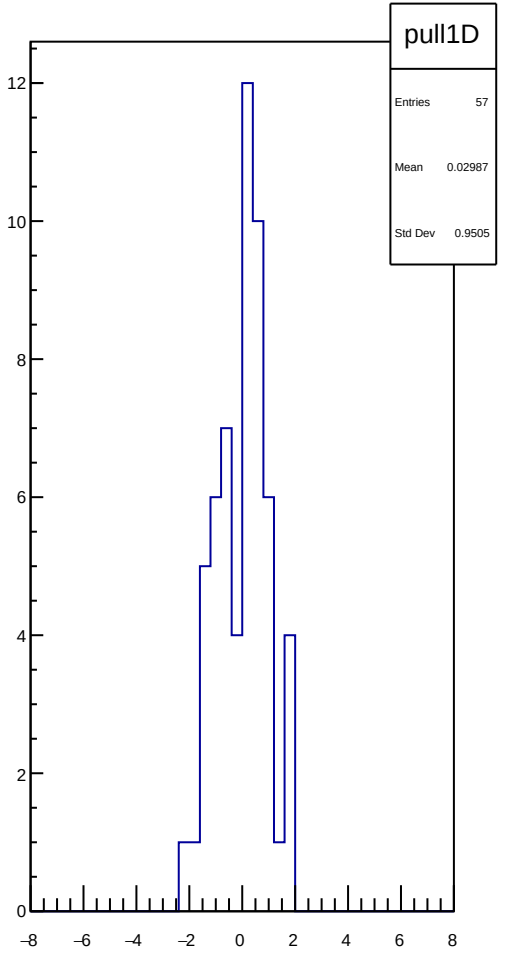

reg_asym_at2_dd_rms vs run
χ² / ndf 1.851e+04 / 56
p0 225.7 ± 0.2183
5000
4000
3000
2000
1000

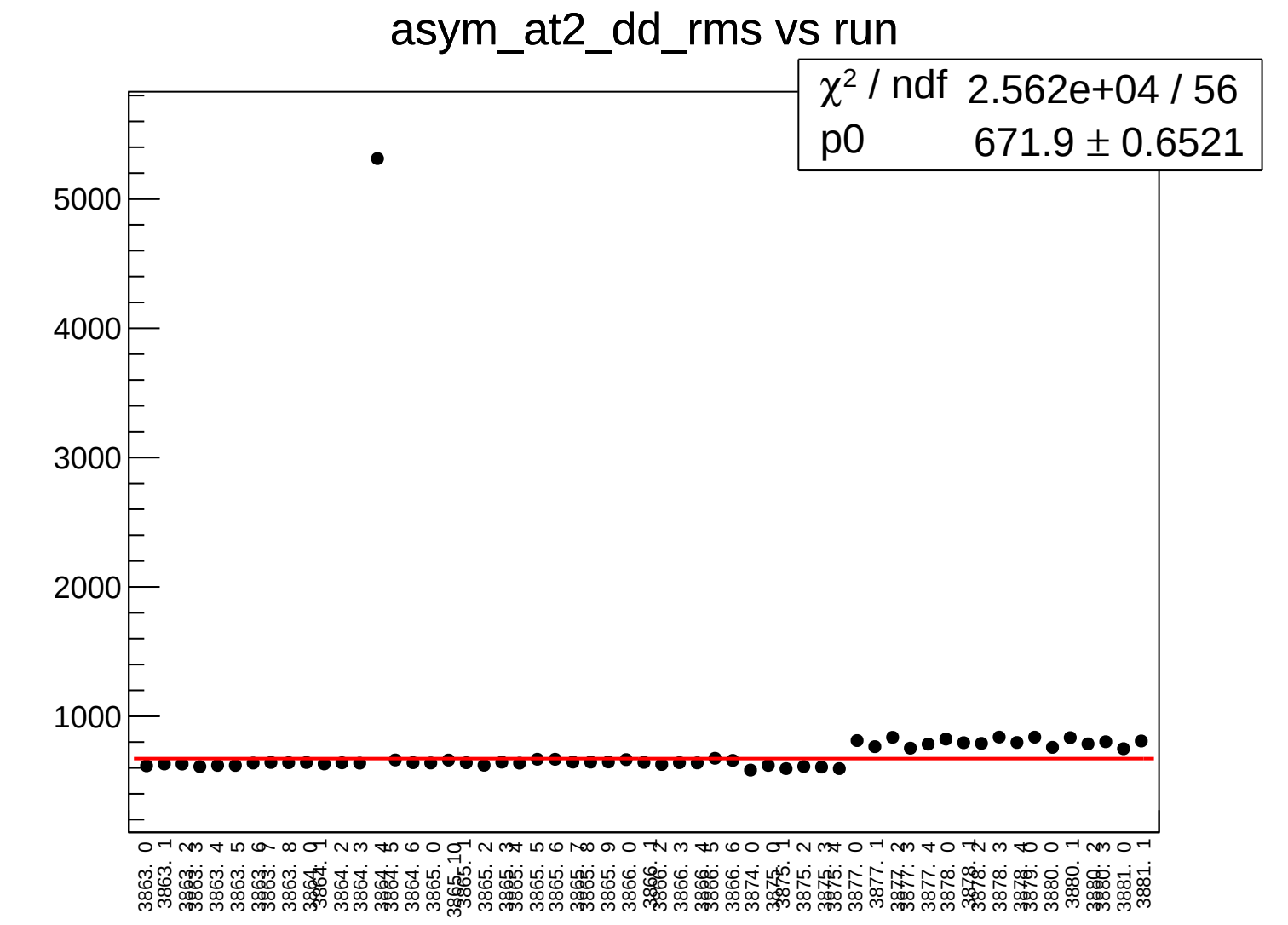

asym_at2_dd_correction_mean vs run
χ² / ndf 53.6 / 56
p0 −184.1± 859.4
pull
Entries 57
Mean 306
Std Dev 279.4

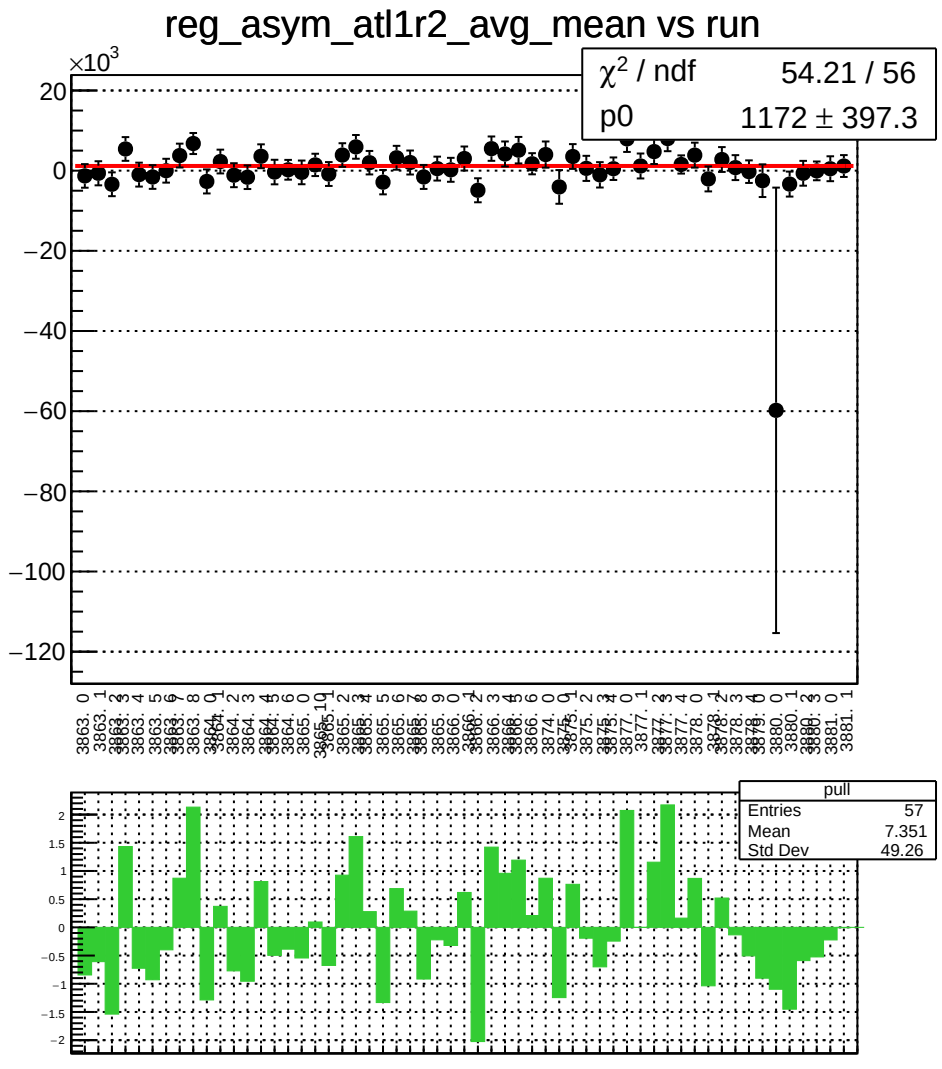

pull1D
Entries 57
Mean −0.01974
Std Dev 0.9695

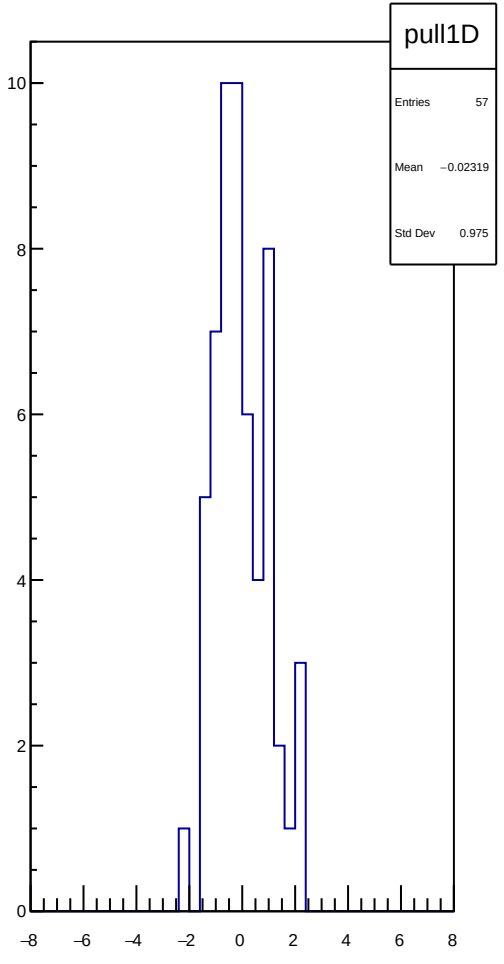

asym_at2_dd_correction_rms vs run
χ² / ndf 1.424e+04 / 56
p0 629.5 ± 0.6077
800
750
700
650
600
550

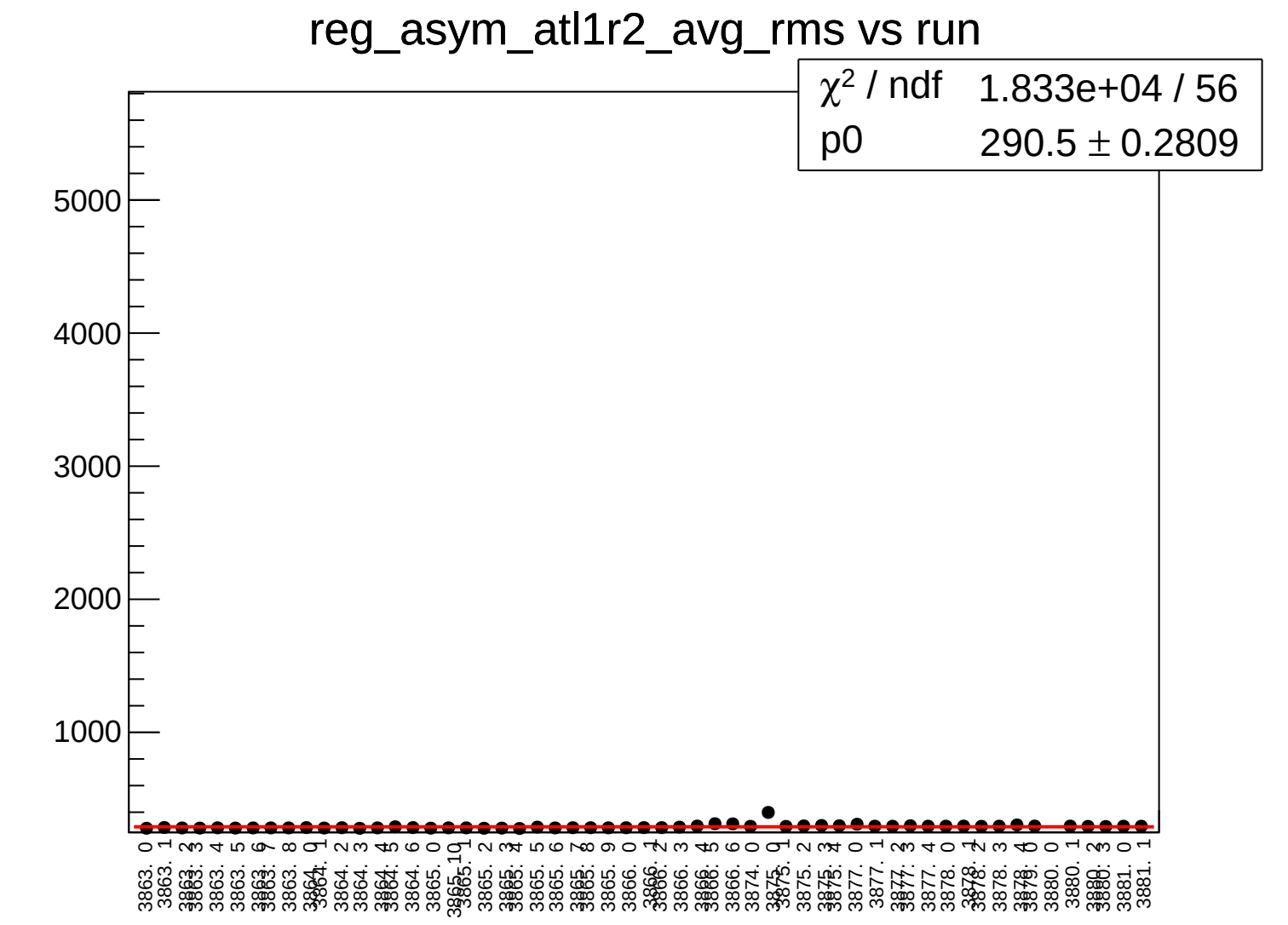

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 51.55 / 56
p0 455.5 ± 922.2
100
80
60
40
20
0
−20
pull
Entries 57
Mean 126.9
Std Dev 100.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

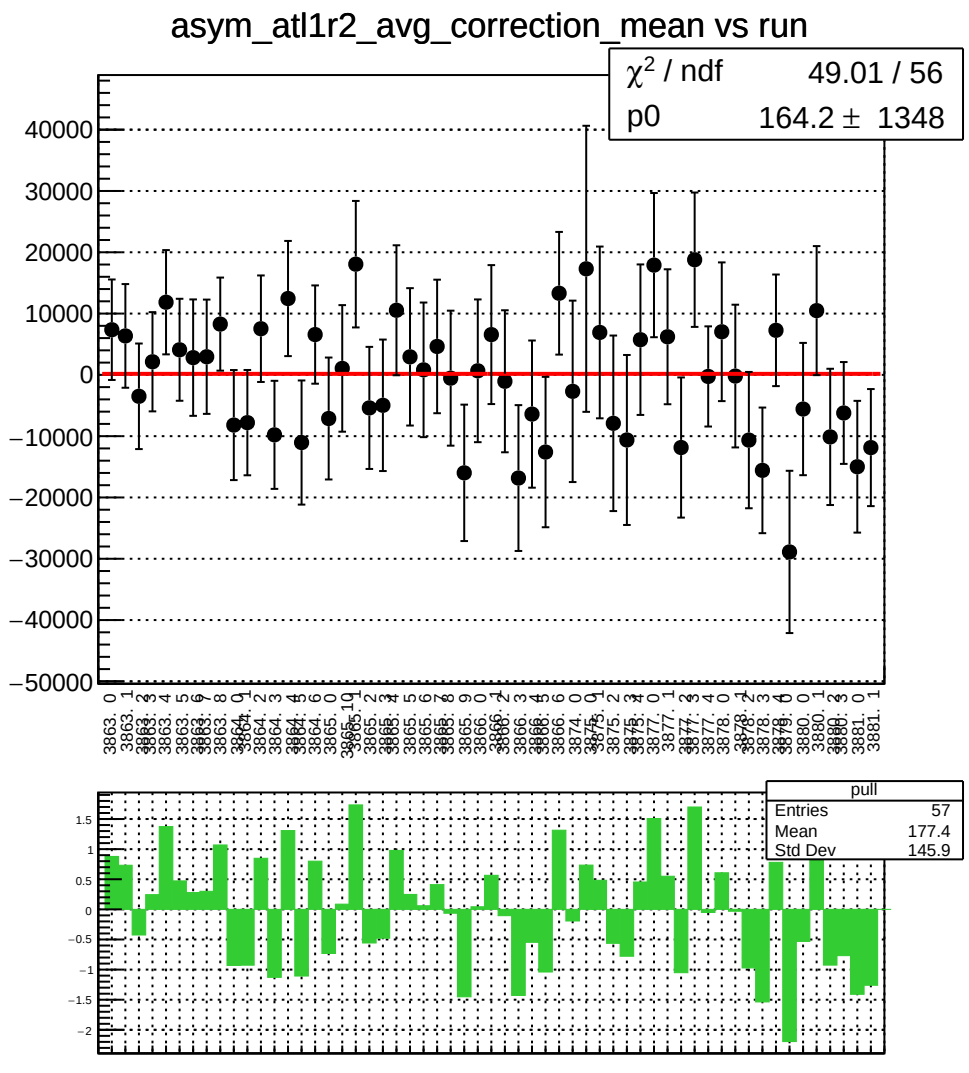

pull1D
Entries 57
Mean 0.02987
Std Dev 0.9505
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

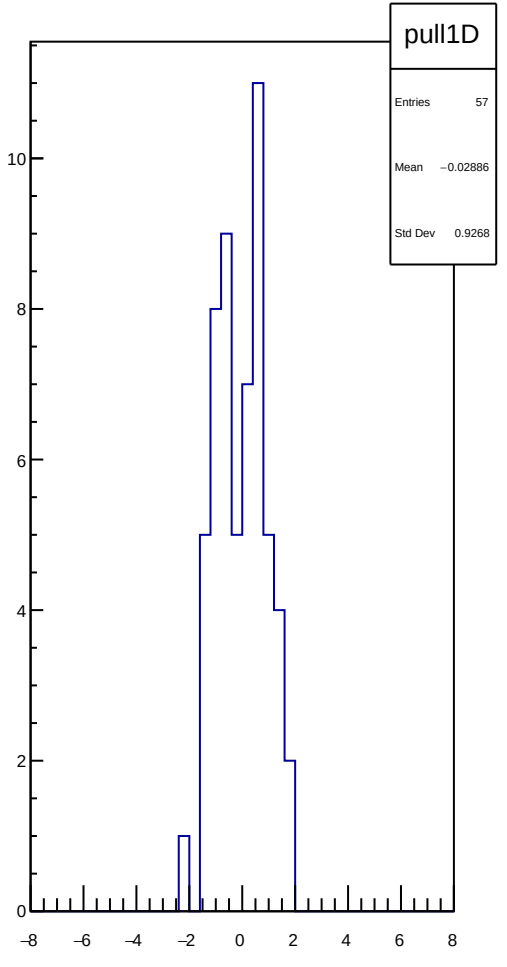

asym_at2_dd_rms vs run
χ² / ndf 2.562e+04 / 56
p0 671.9 ± 0.6521
5000
4000
3000
2000
1000
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

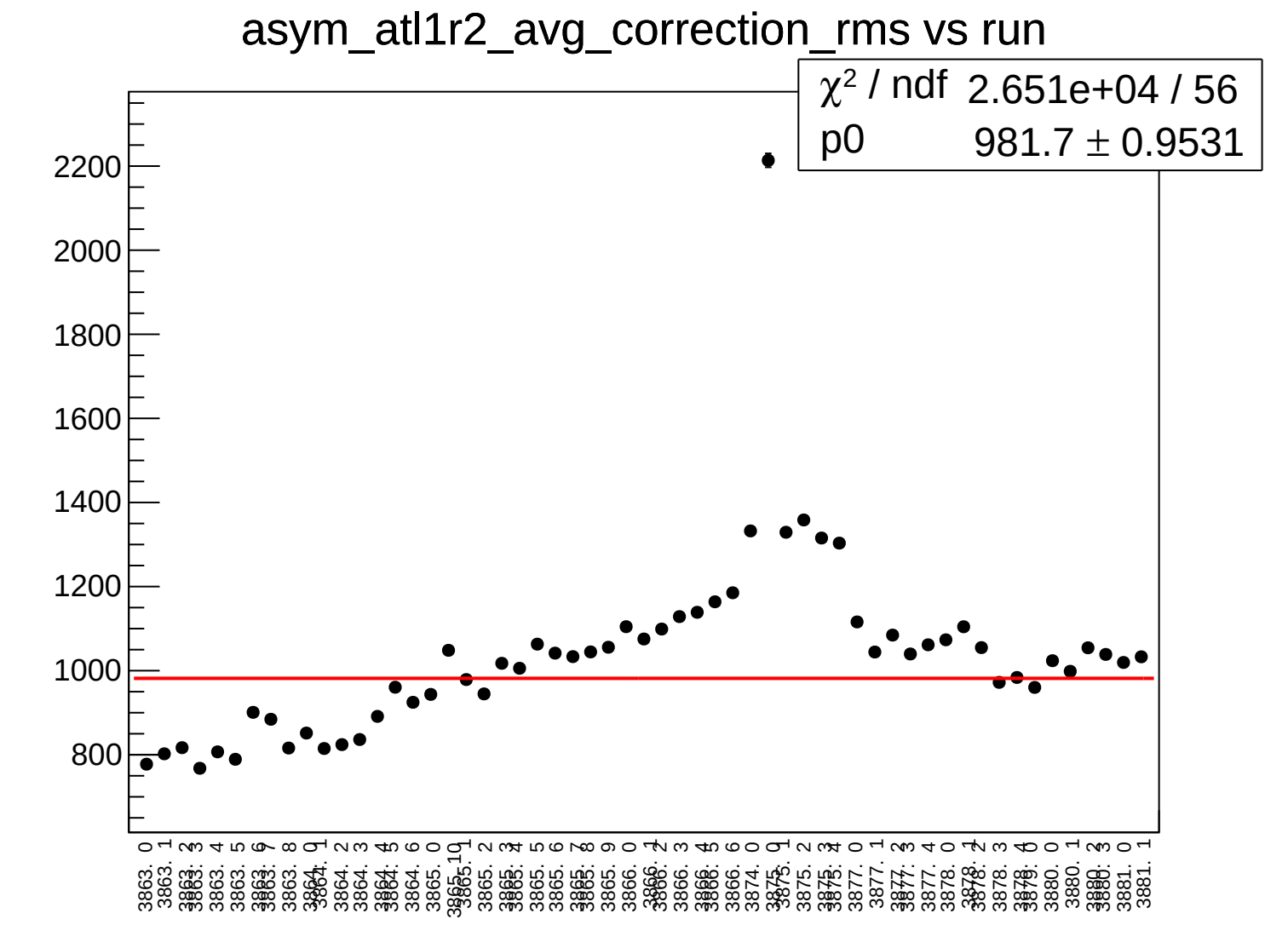

reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 54.21 / 56
p0 1172 ± 397.3
pull
Entries 57
Mean 7.351
Std Dev 49.26

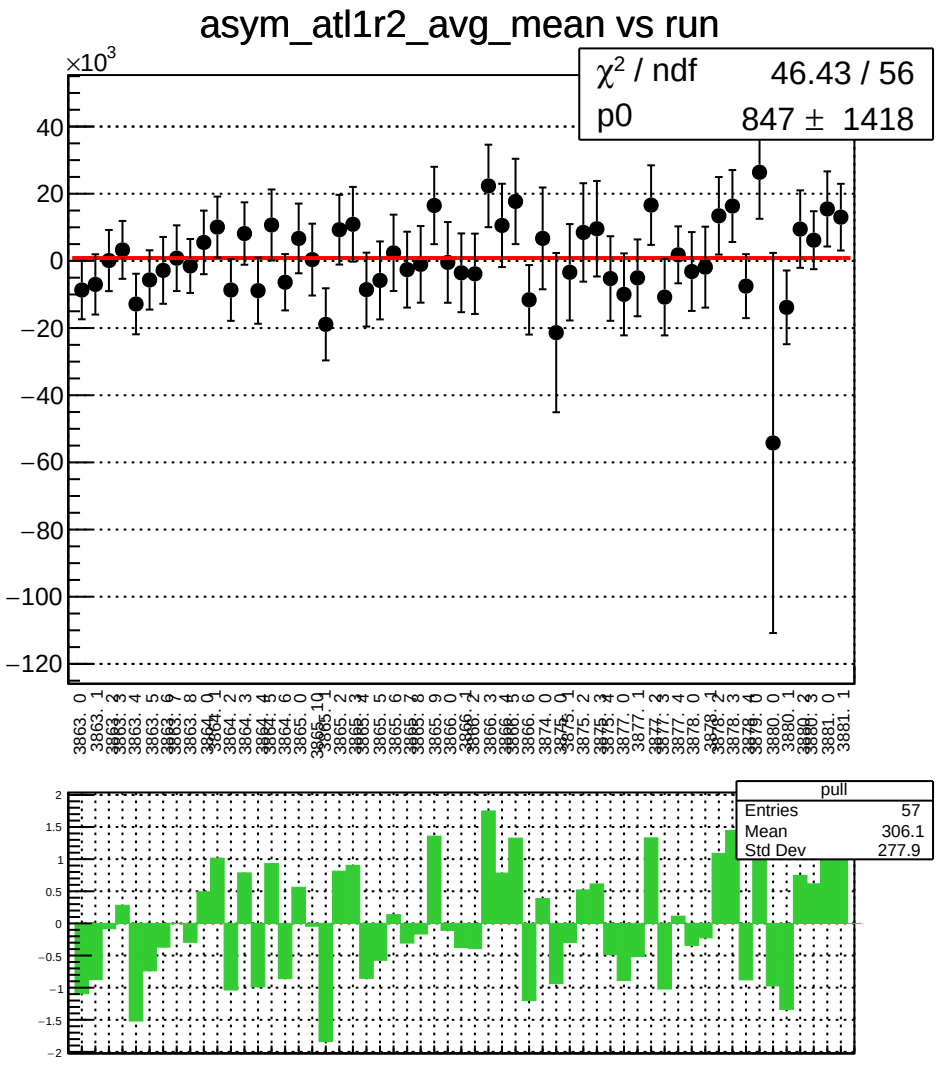

pull1D
Entries 57
Mean −0.02319
Std Dev 0.975

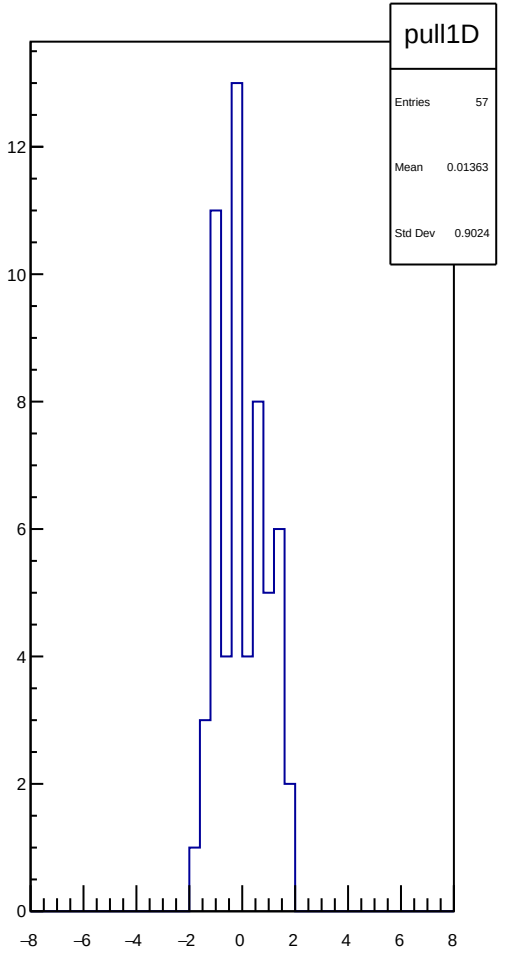

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 1.833e+04 / 56
p0 290.5 ± 0.2809
5000
4000
3000
2000
1000

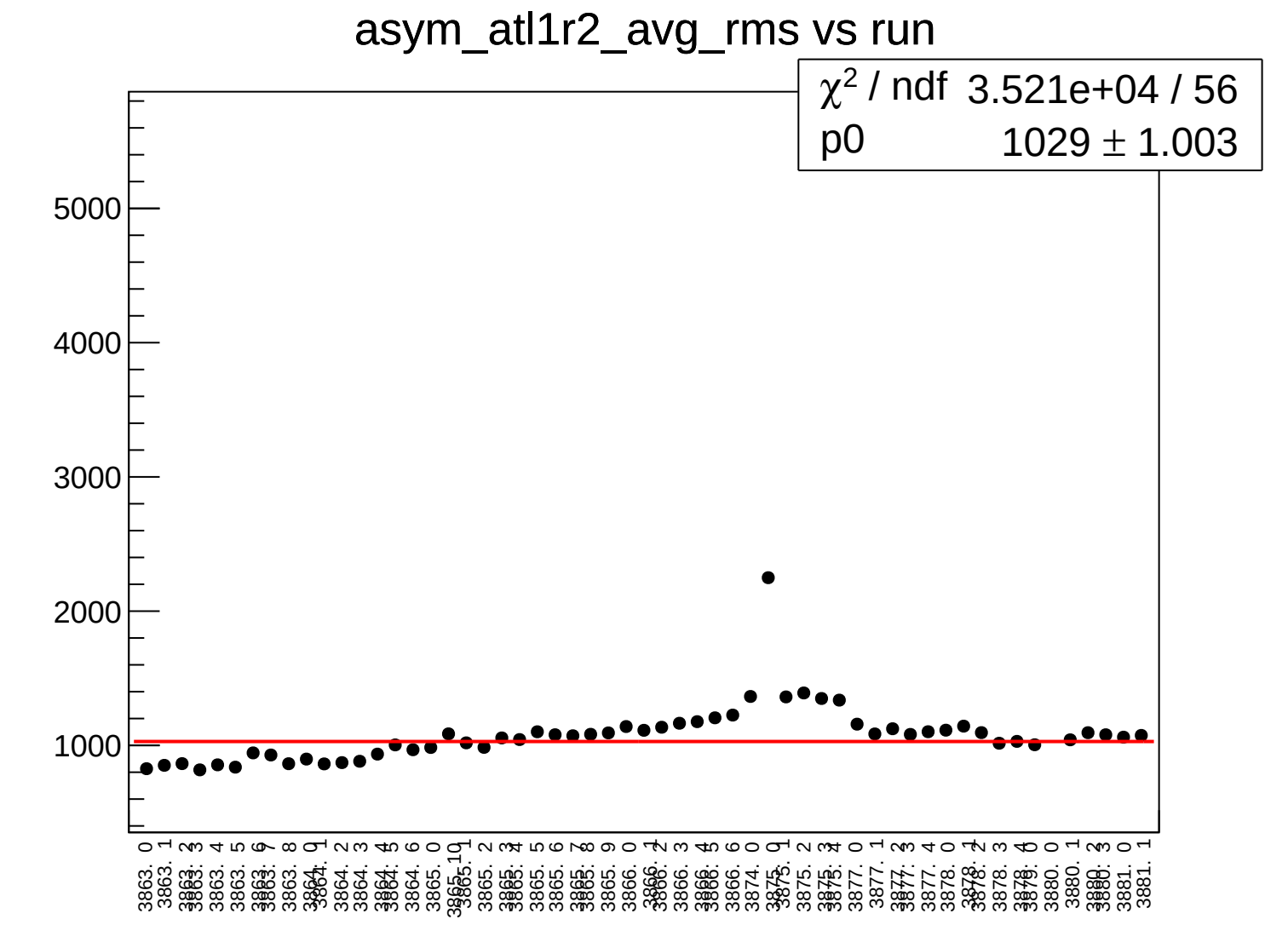

asym_atl1r2_avg_correction_mean vs run
χ² / ndf 49.01 / 56
p0 164.2 ± 1348
pull
Entries 57
Mean 177.4
Std Dev 145.9

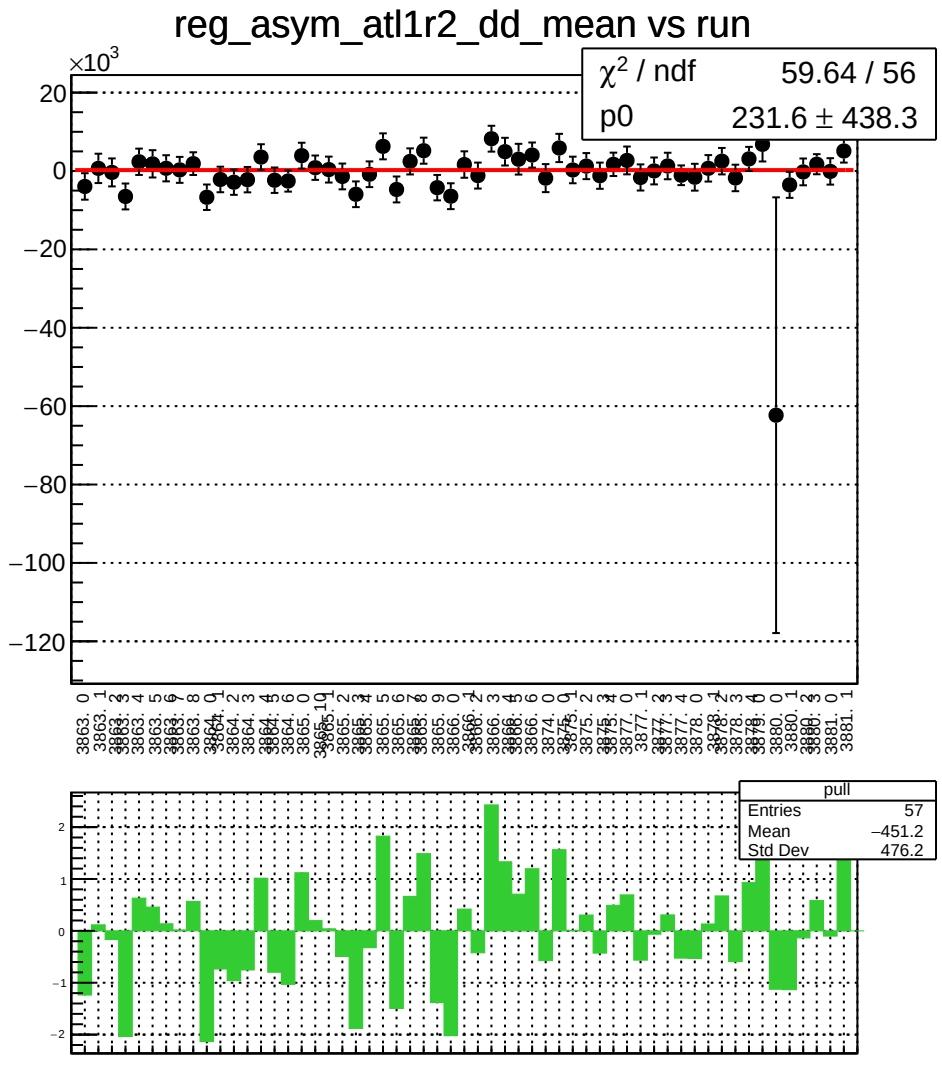

pull1D
Entries 57
Mean −0.02886
Std Dev 0.9268

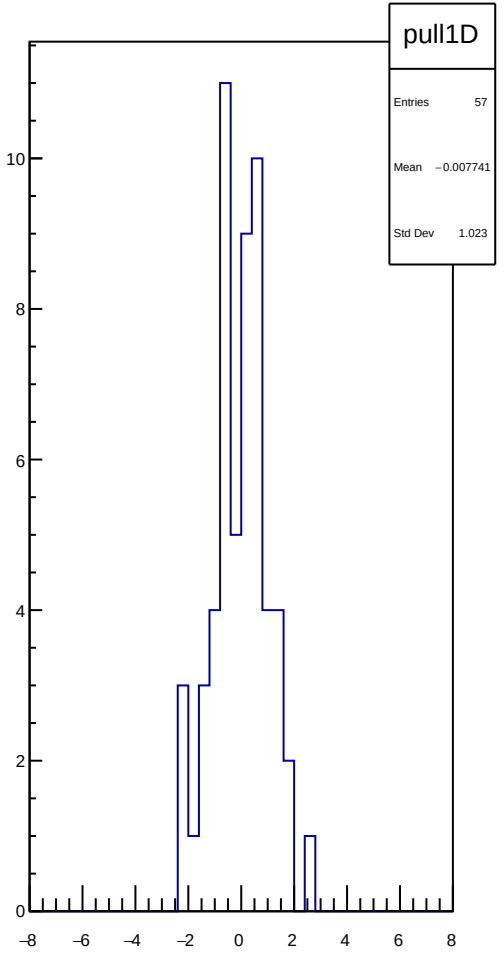

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 2.651e+04 / 56
p0 981.7 ± 0.9531
2200
2000
1800
1600
1400
1200
1000
800

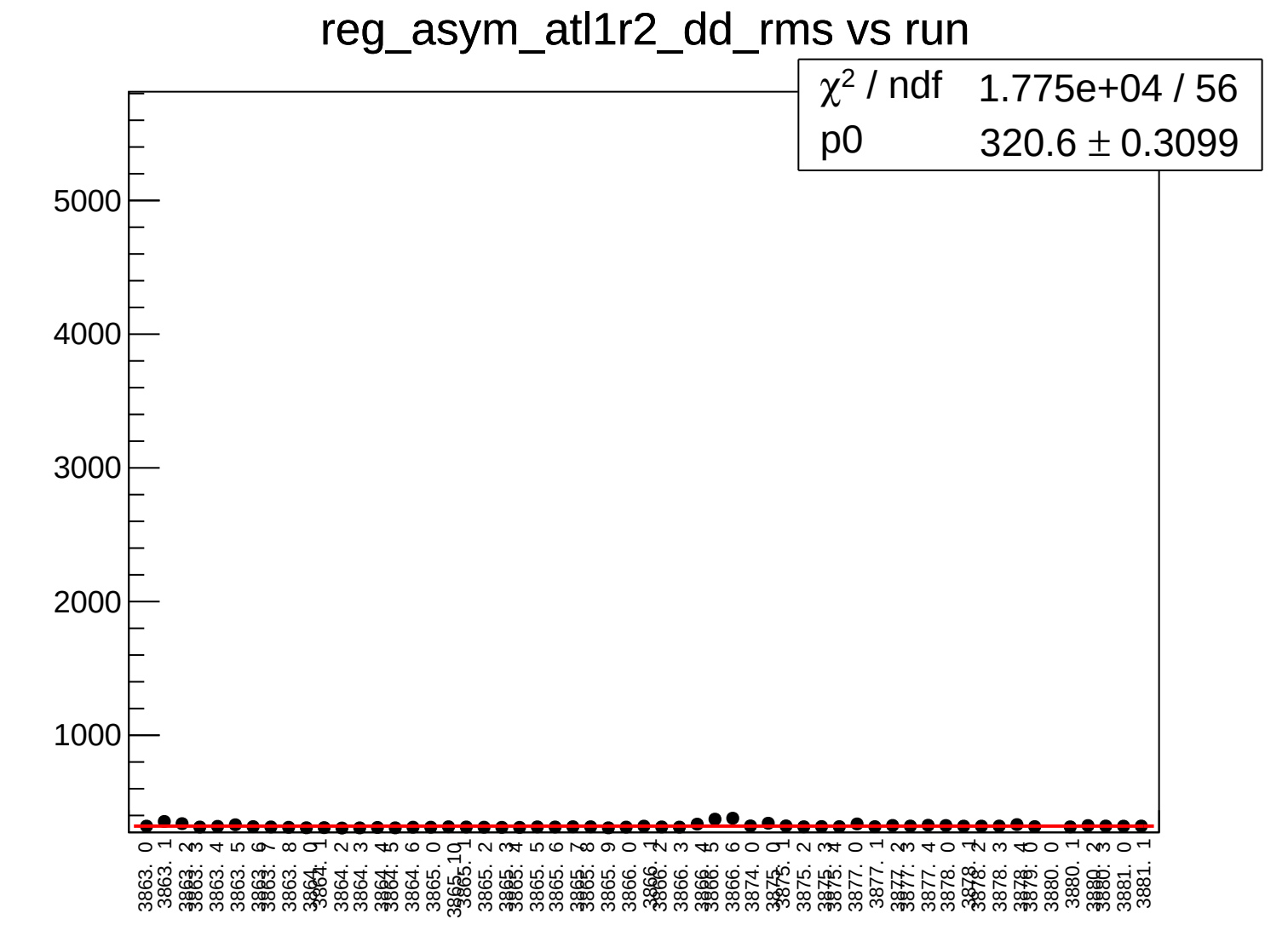

asym_atl1r2_avg_mean vs run
χ² / ndf 46.43 / 56
p0 847 ± 1418
pull
Entries 57
Mean 306.1
Std Dev 277.9

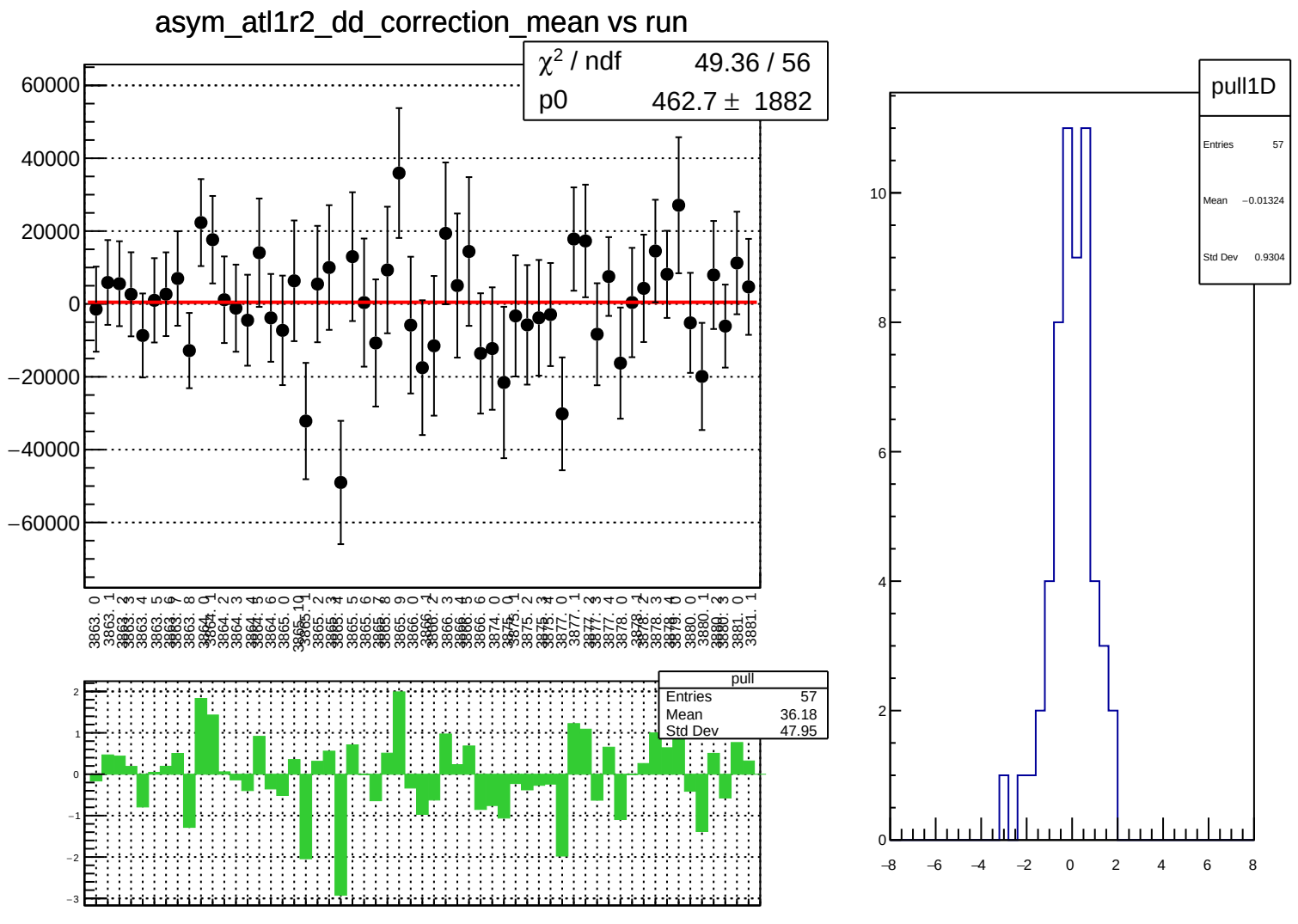

pull1D
Entries 57
Mean 0.01363
Std Dev 0.9024

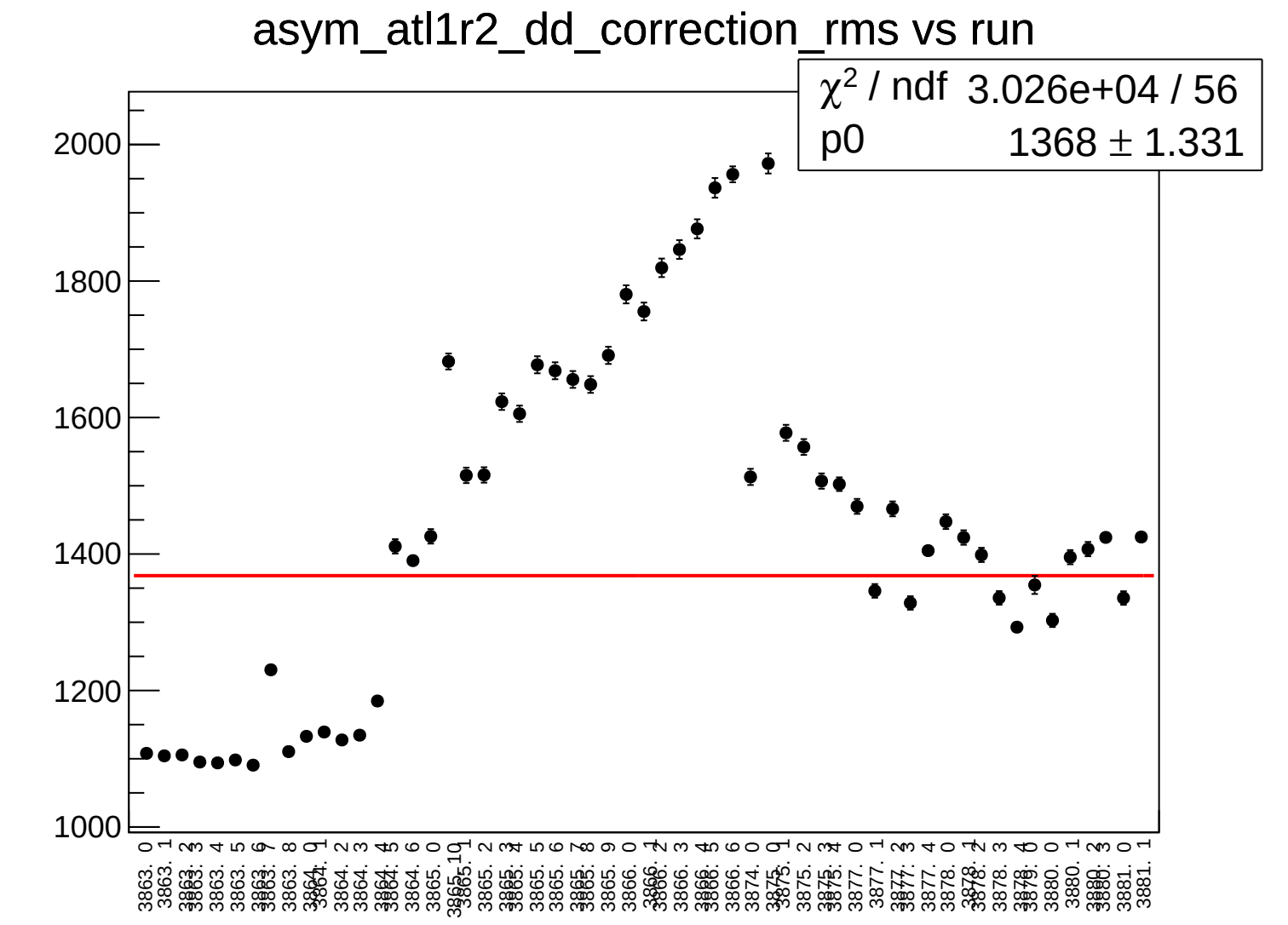

asym_atl1r2_avg_rms vs run
χ² / ndf 3.521e+04 / 56
p0 1029 ± 1.003
5000
4000
3000
2000
1000

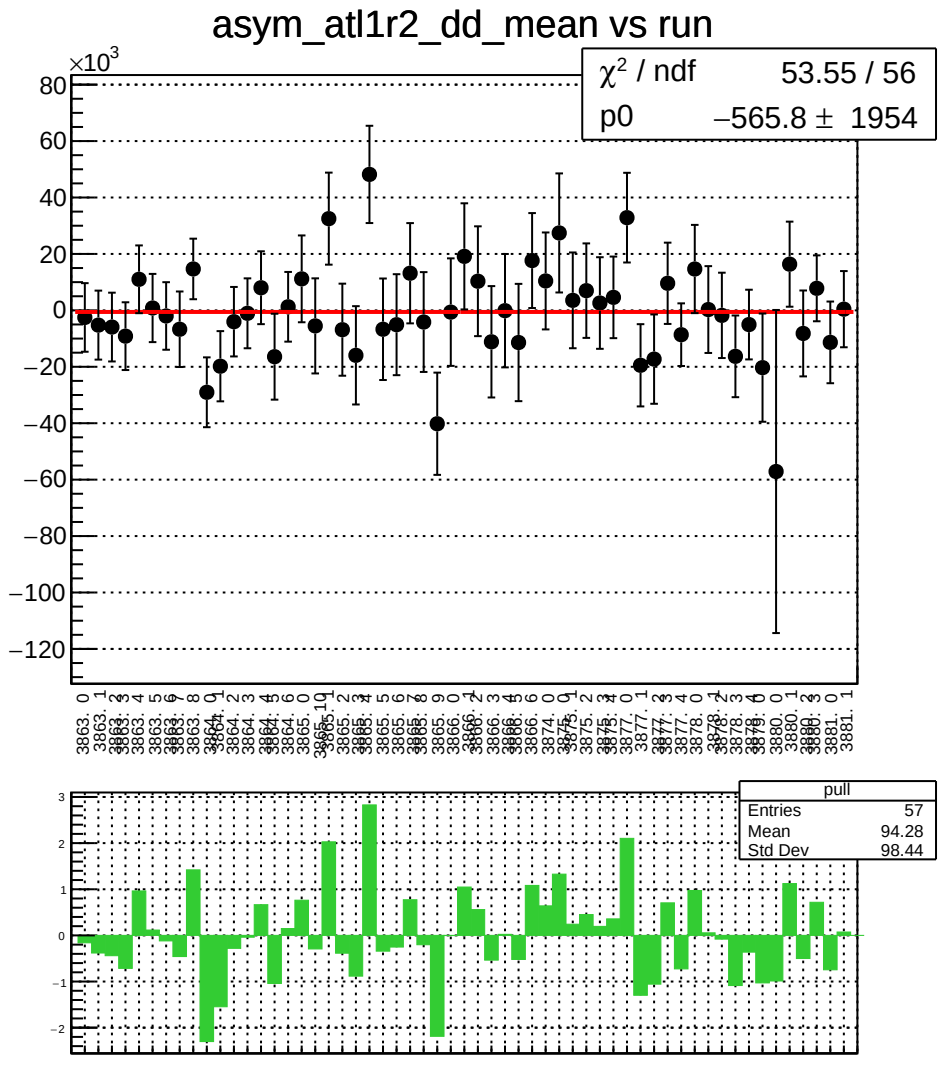

reg_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 59.64 / 56
p0 231.6 ± 438.3
pull
Entries 57
Mean −451.2
Std Dev 476.2

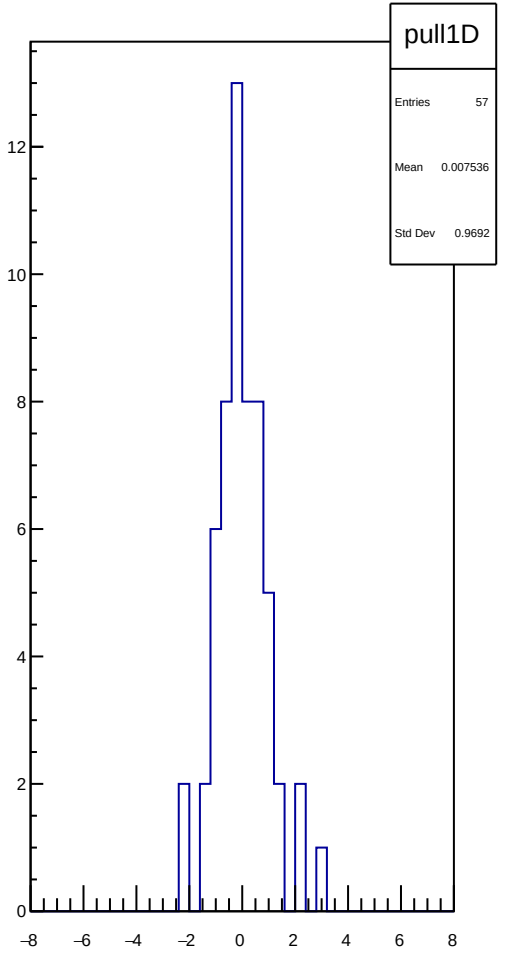

pull1D
Entries 57
Mean −0.007741
Std Dev 1.023

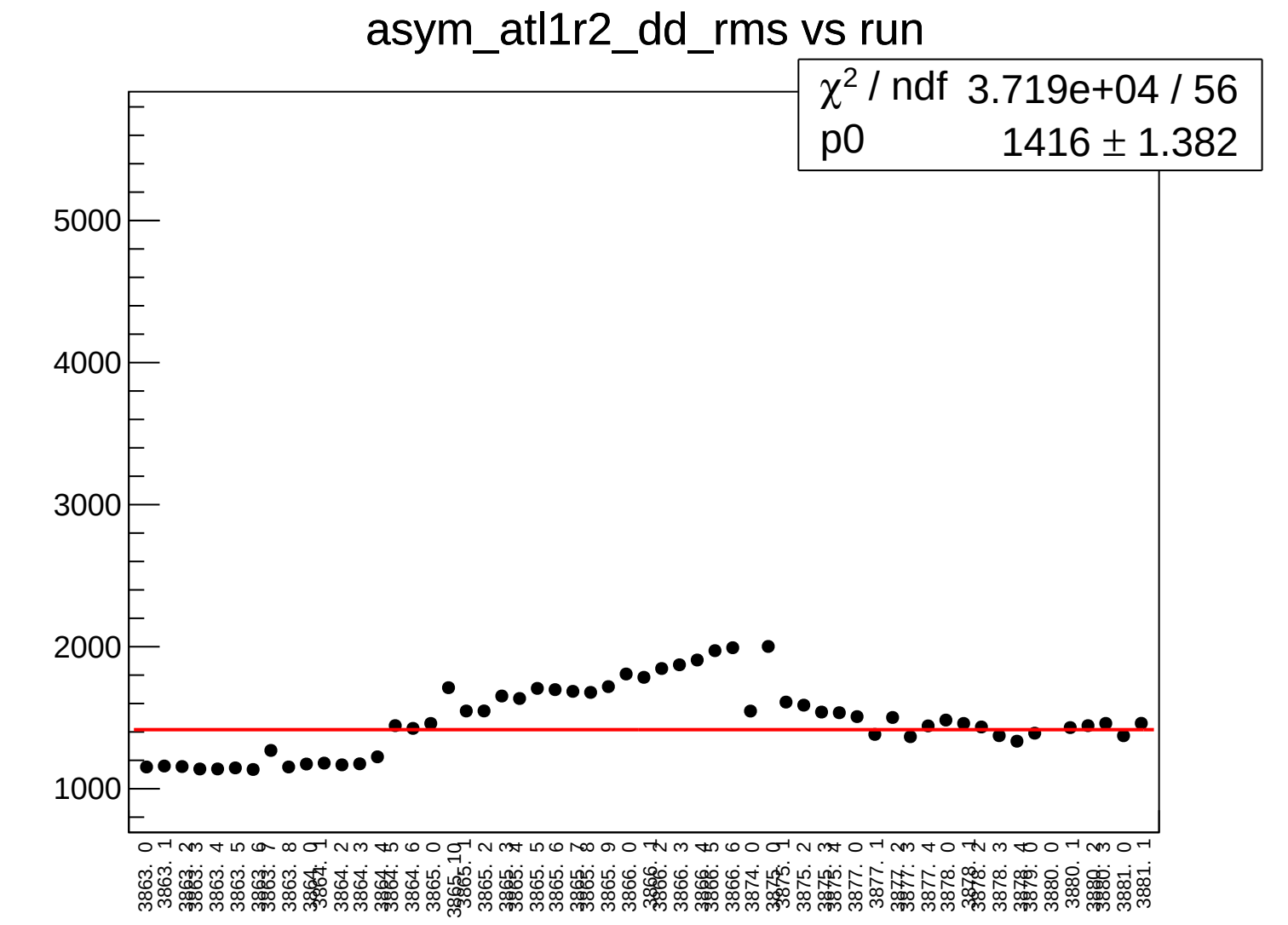

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 1.775e+04 / 56
p0 320.6 ± 0.3099
5000
4000
3000
2000
1000

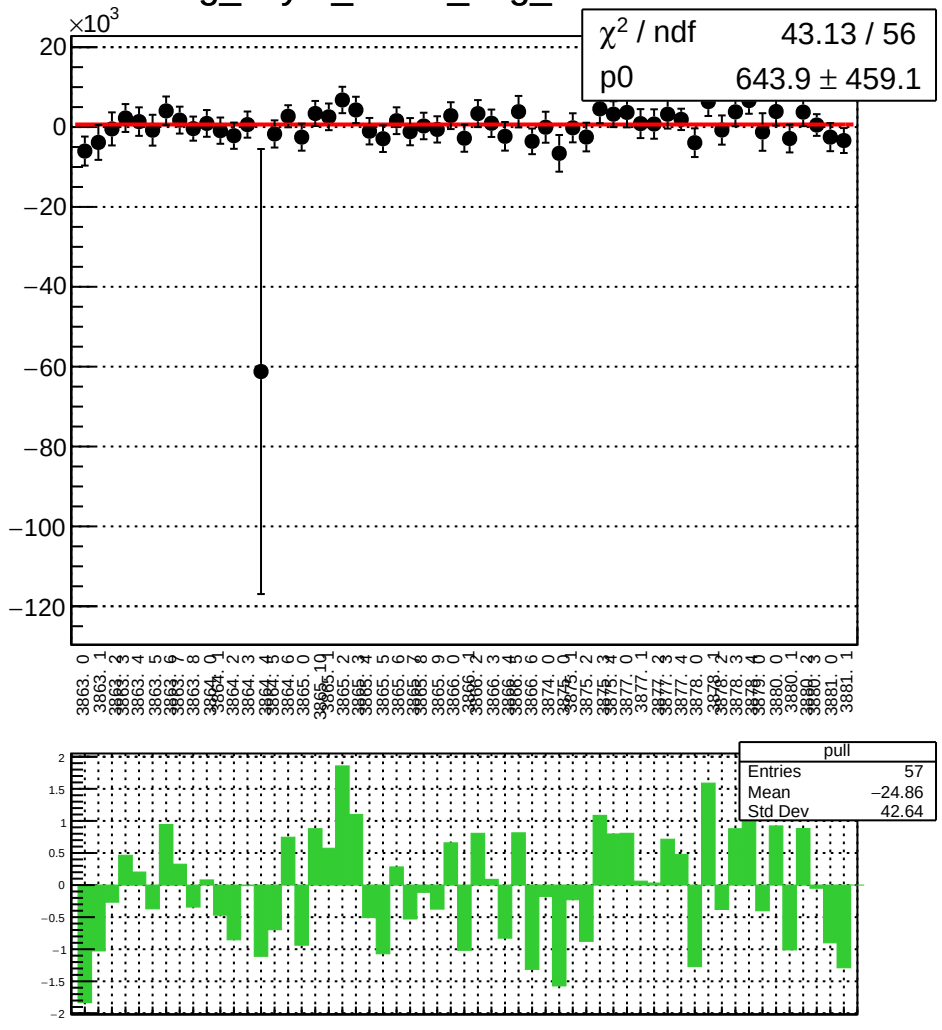

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 49.36 / 56
p0 462.7 ± 1882
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 57
Mean 36.18
Std Dev 47.95
2
1
0
−1
−2
−3
pull1D
Entries 57
Mean −0.01324
Std Dev 0.9304
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

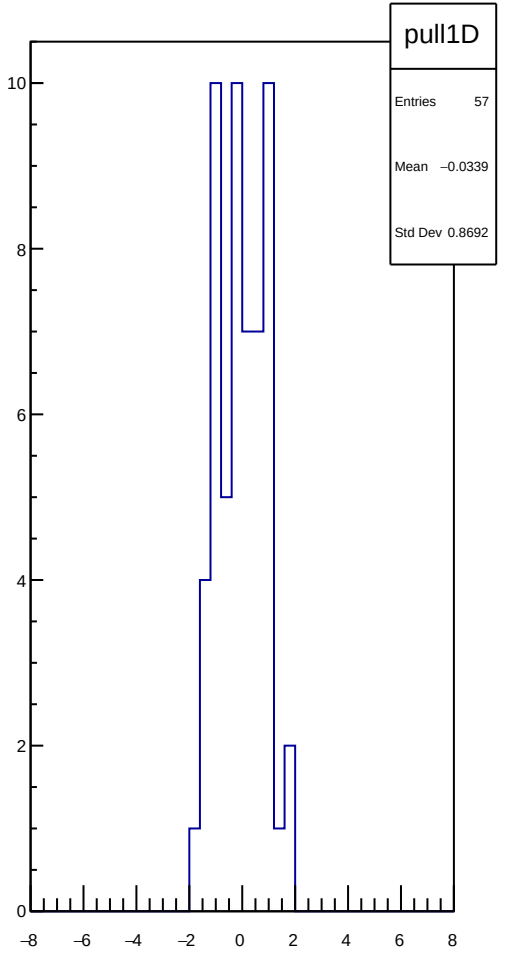

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 3.026e+04 / 56
p0 1368 ± 1.331
2000
1800
1600
1400
1200
1000

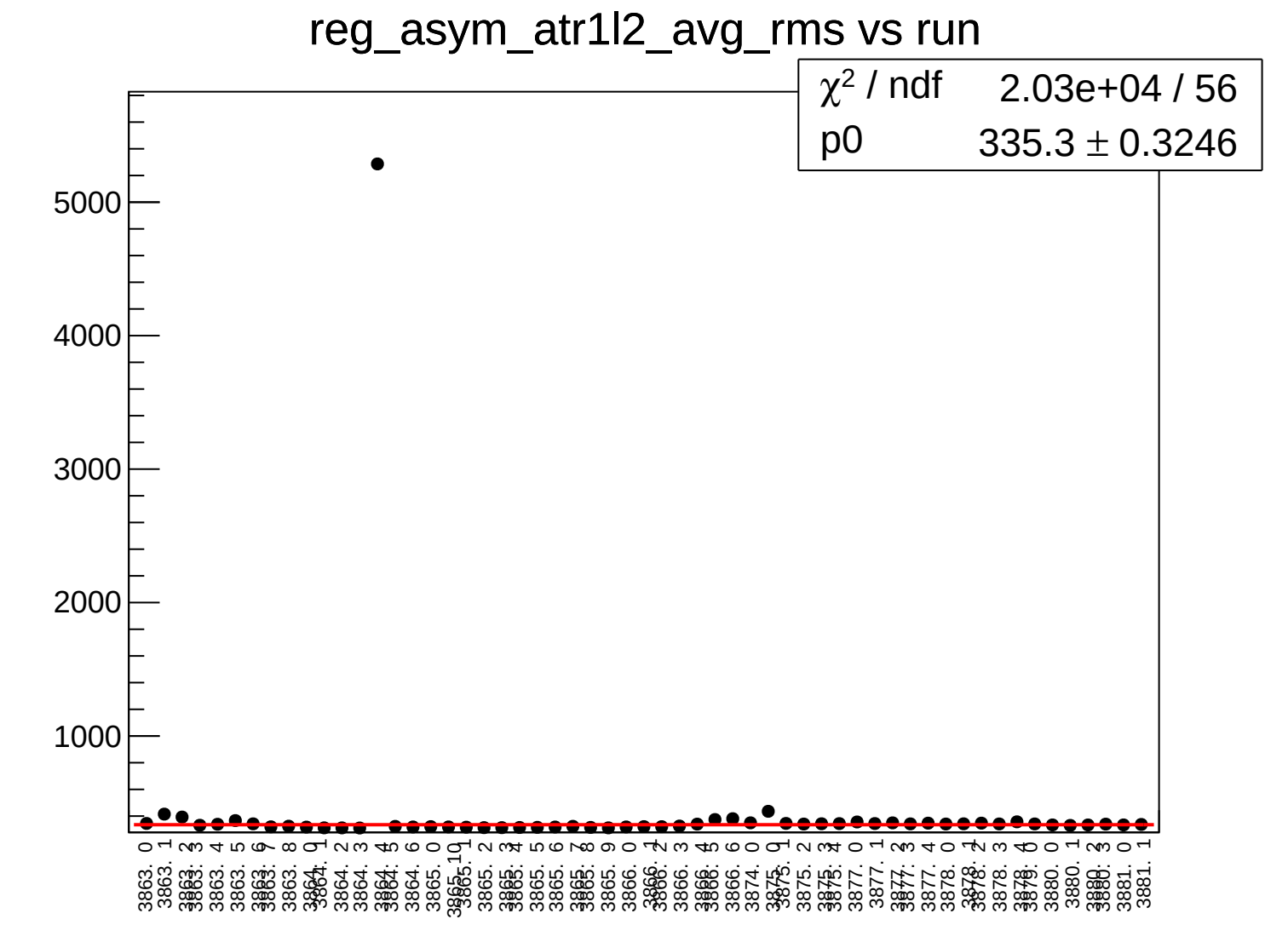

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 53.55 / 56
p0 −565.8 ± 1954
pull
Entries 57
Mean 94.28
Std Dev 98.44

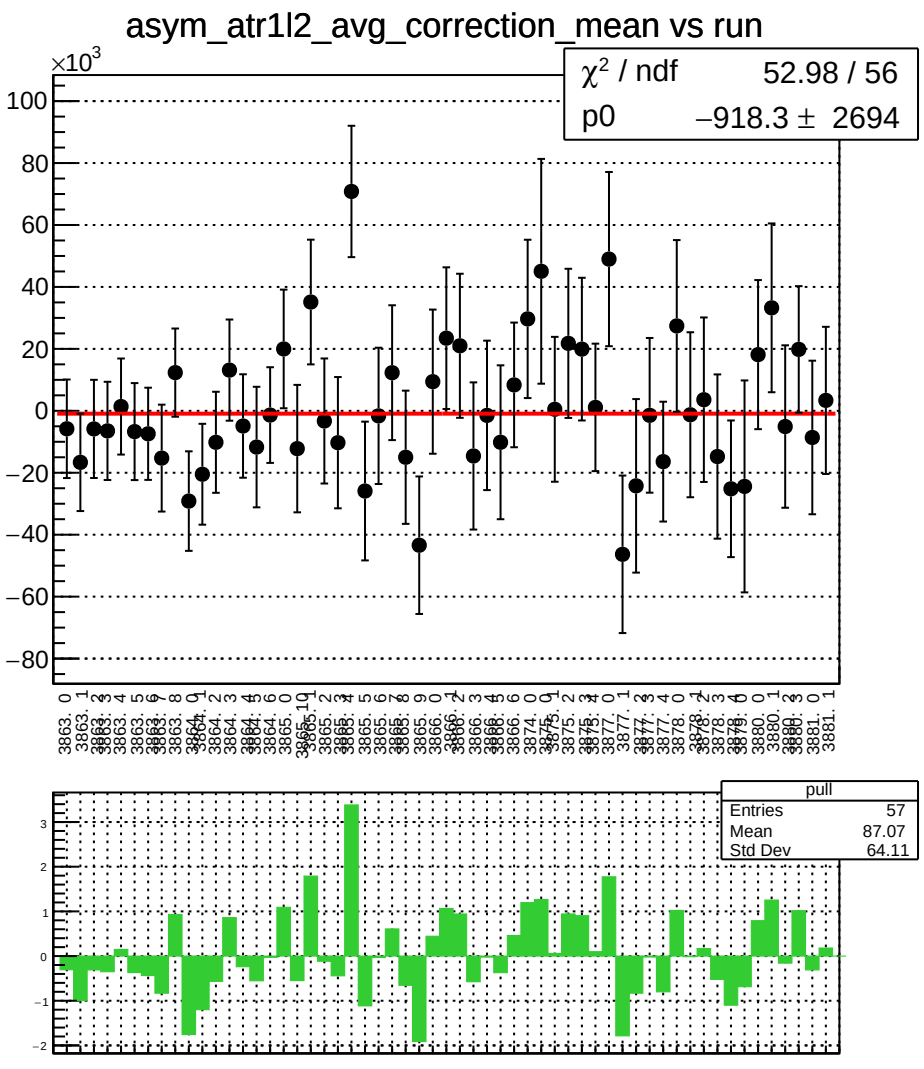

pull1D
Entries 57
Mean 0.007536
Std Dev 0.9692

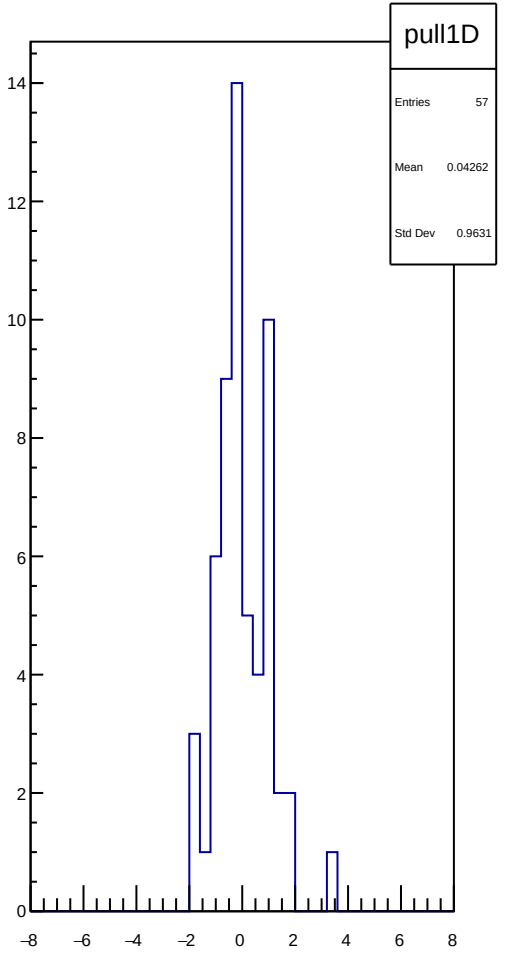

asym_atl1r2_dd_rms vs run
χ² / ndf 3.719e+04 / 56
p0 1416 ± 1.382
5000
4000
3000
2000
1000
3863. 0
3863. 1
3863. 2
3863. 3
3863. 4
3863. 5
3863. 6
3863. 7
3863. 8
3863. 9
3864. 0
3864. 1
3864. 2
3864. 3
3864. 4
3864. 5
3864. 6
3865. 0
3865. 1
3865. 2
3865. 3
3865. 4
3865. 5
3865. 6
3865. 7
3865. 8
3865. 9
3866. 0
3866. 1
3866. 2
3866. 3
3866. 4
3866. 5
3866. 6
3874. 0
3875. 0
3875. 1
3875. 2
3875. 3
3875. 4
3877. 0
3877. 1
3877. 2
3877. 3
3877. 4
3878. 0
3878. 1
3878. 2
3878. 3
3878. 4
3879. 0
3880. 0
3880. 1
3880. 2
3880. 3
3881. 0
3881. 1

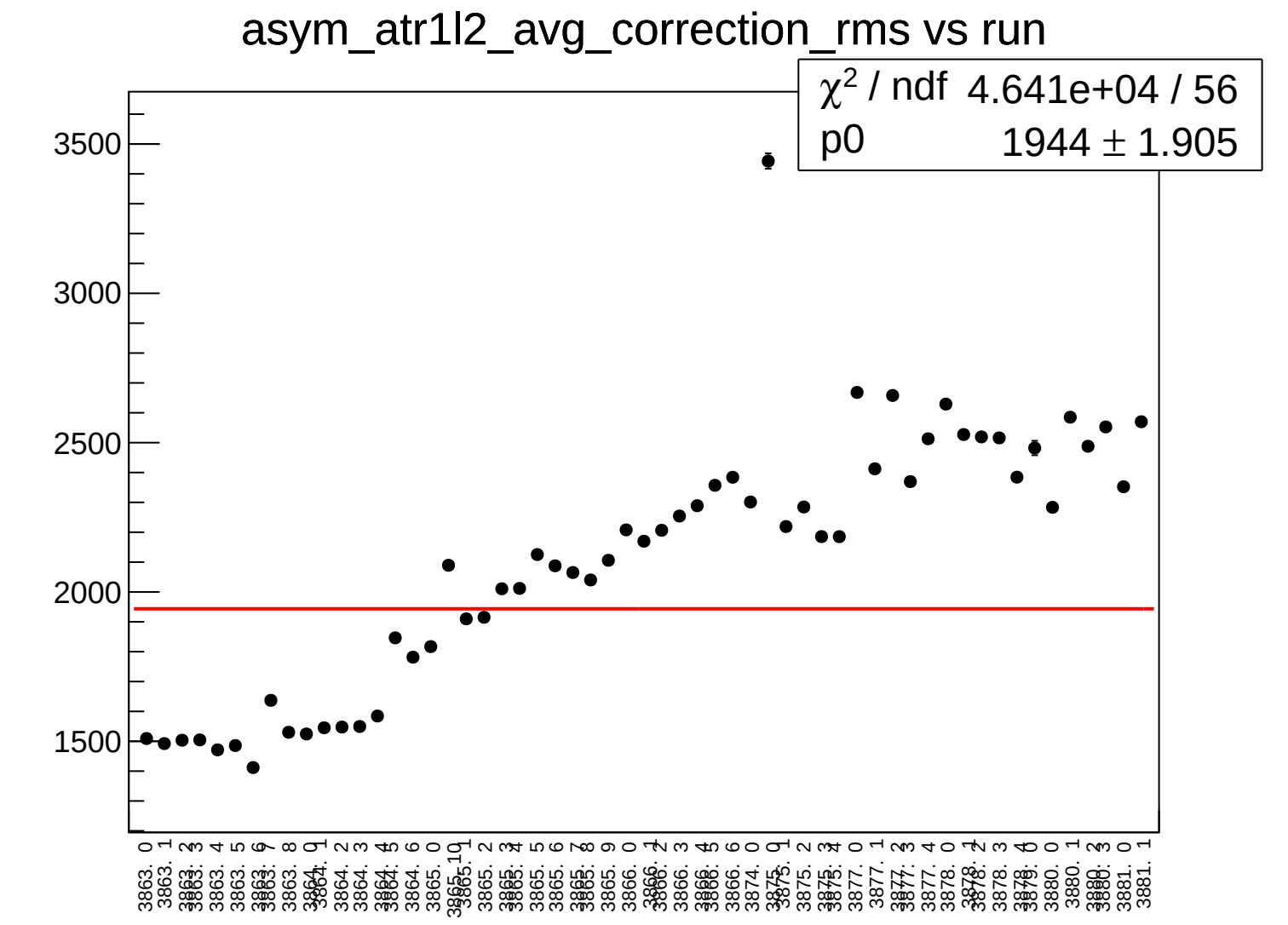

reg_asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 43.13 / 56
p0 643.9 ± 459.1
pull
Entries 57
Mean −24.86
Std Dev 42.64

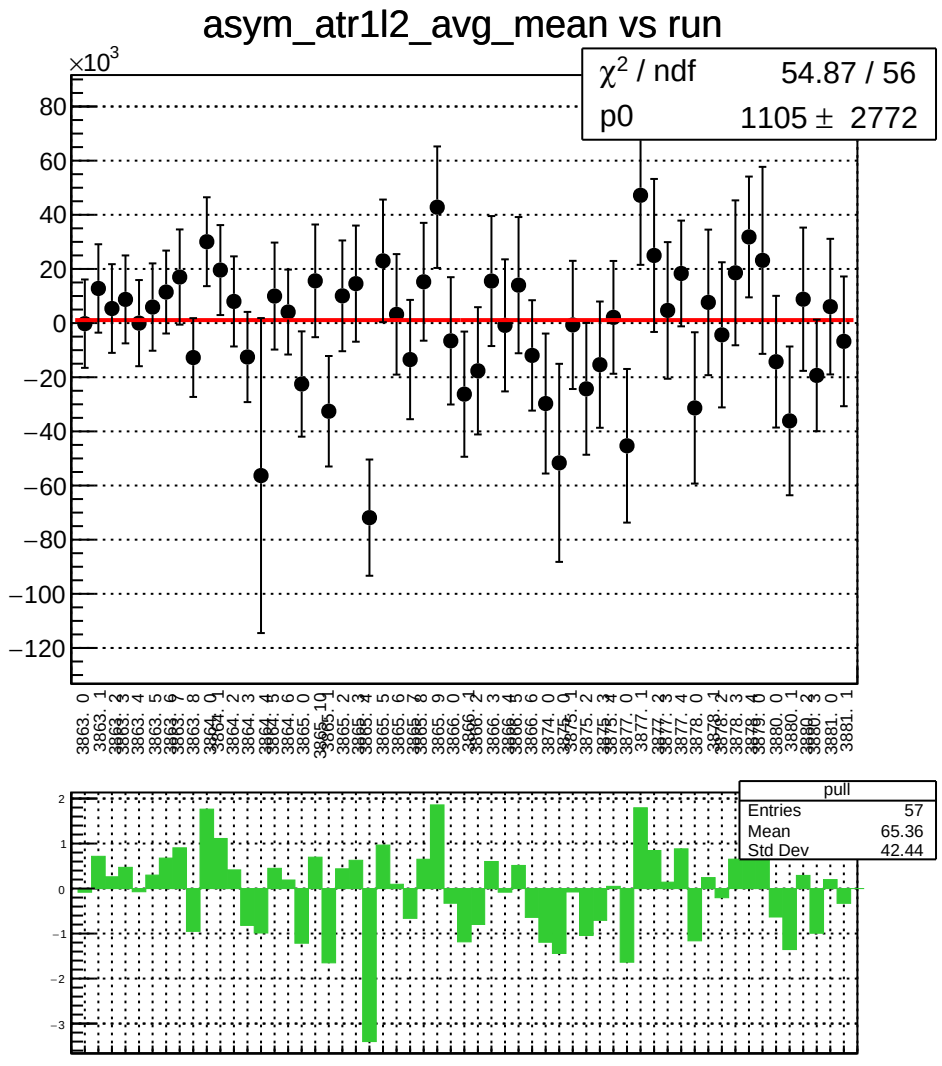

pull1D
Entries 57
Mean −0.0339
Std Dev 0.8692

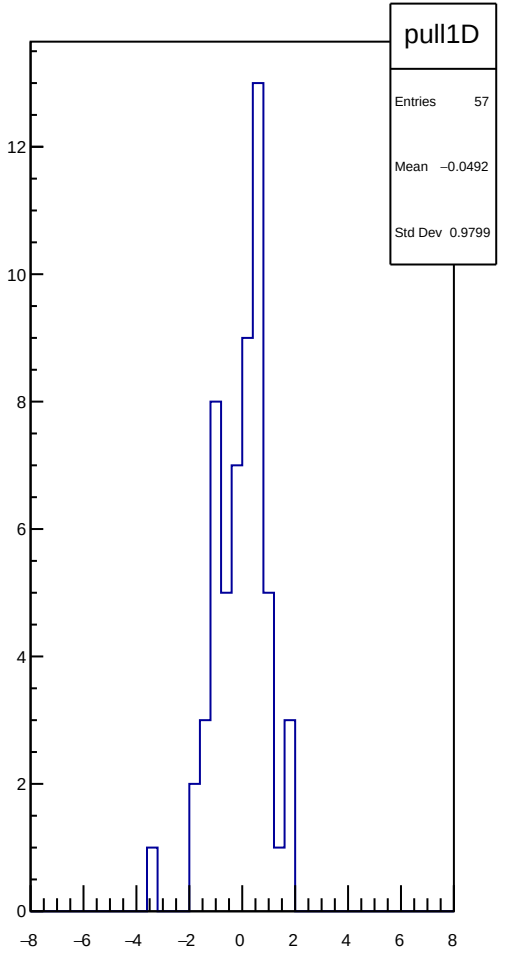

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 2.03e+04 / 56
p0 335.3 ± 0.3246
5000
4000
3000
2000
1000

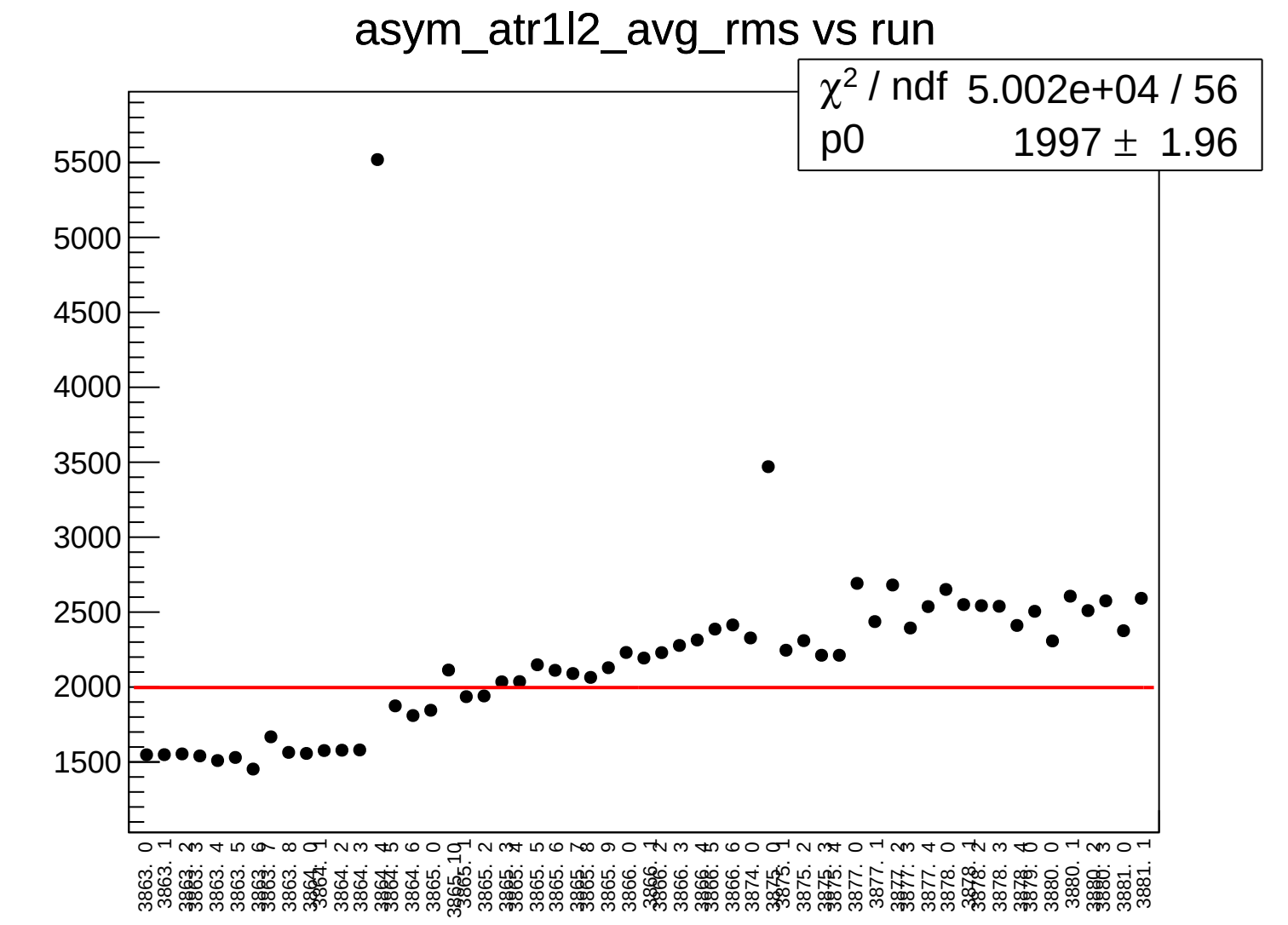

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 52.98 / 56
p0 −918.3 ± 2694
pull
Entries 57
Mean 87.07
Std Dev 64.11

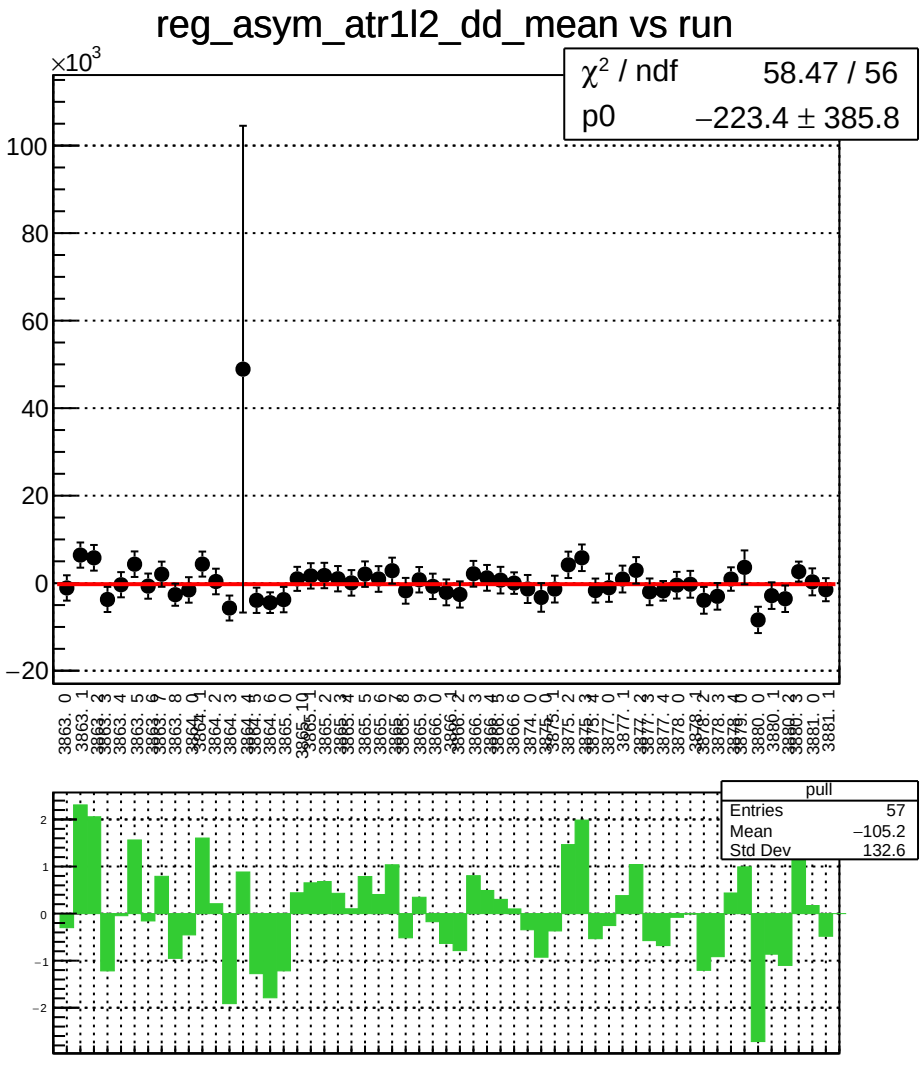

pull1D
Entries 57
Mean 0.04262
Std Dev 0.9631

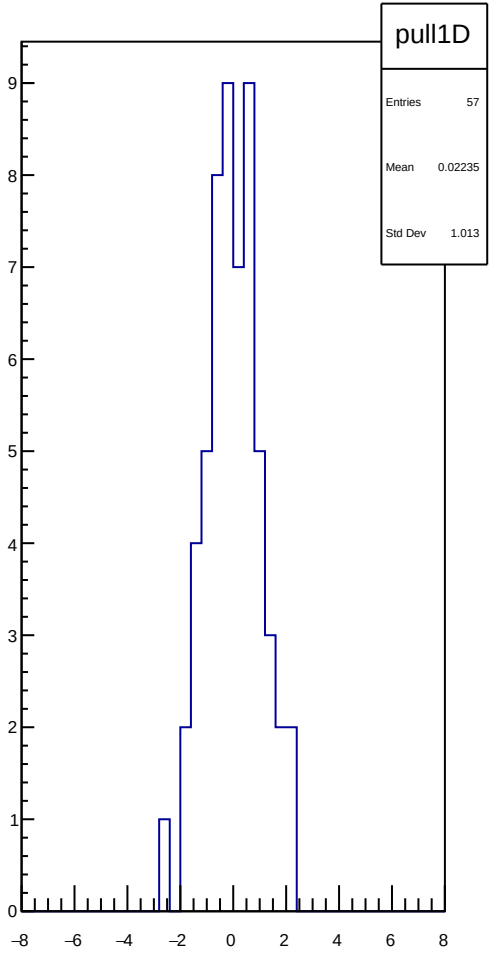

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 4.641e+04 / 56
p0 1944 ± 1.905
3500
3000
2500
2000
1500

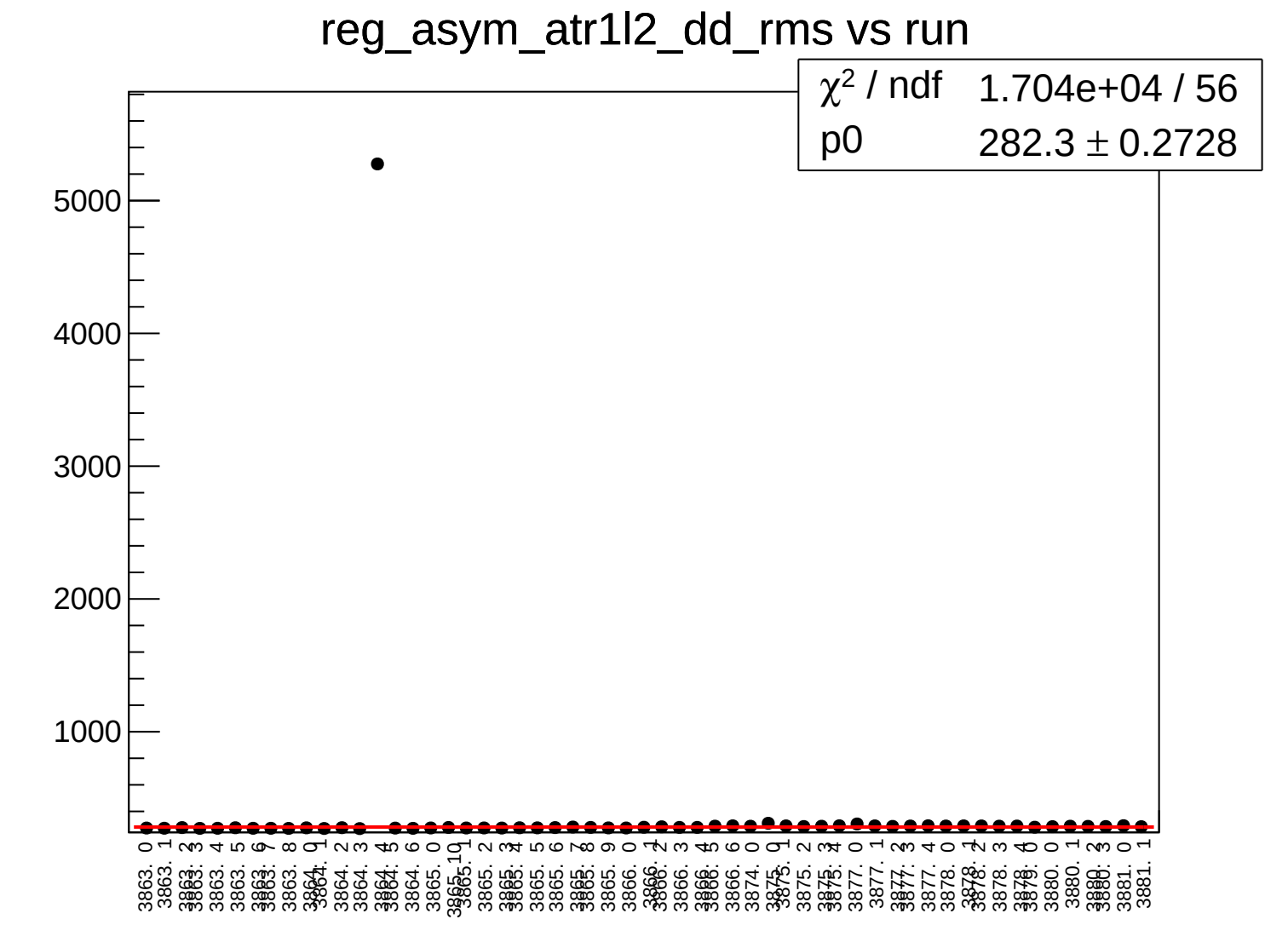

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 54.87 / 56
p0 1105 ± 2772
pull
Entries 57
Mean 65.36
Std Dev 42.44

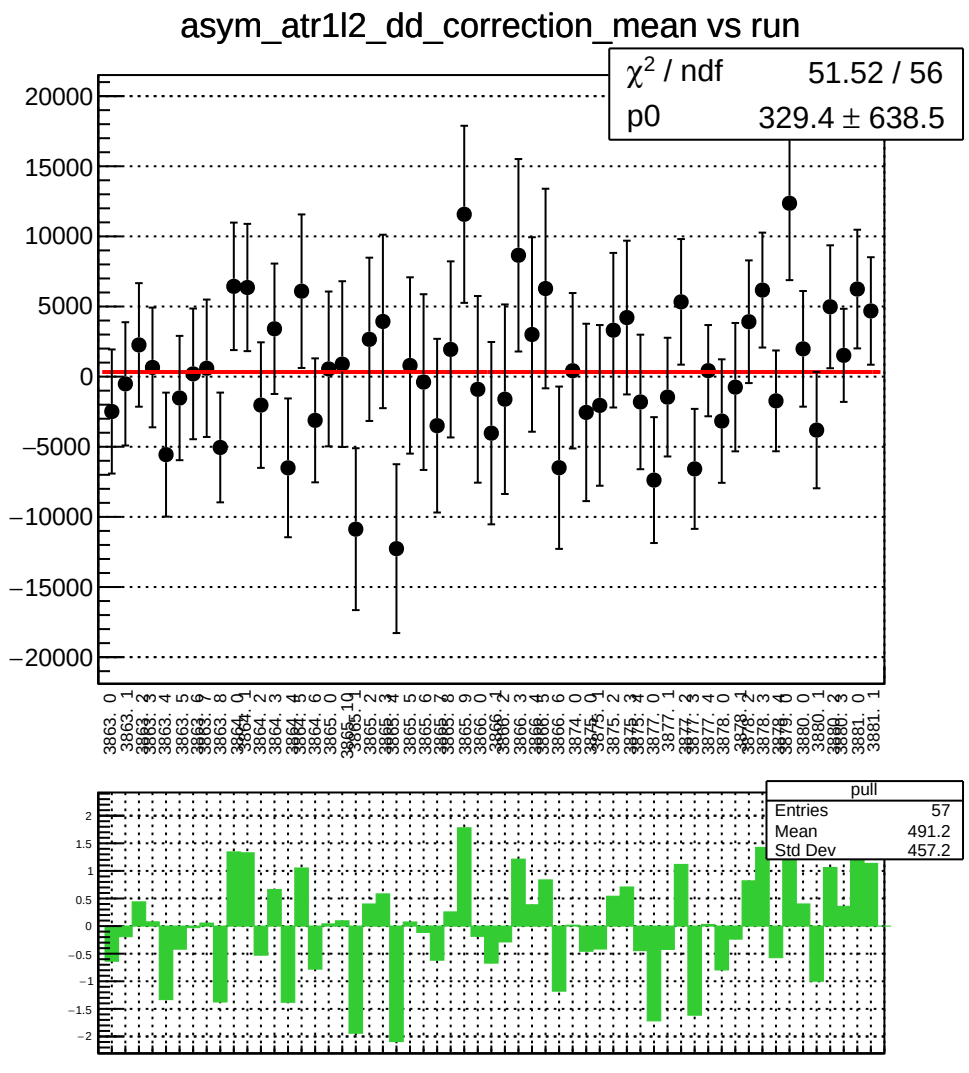

pull1D
Entries 57
Mean −0.0492
Std Dev 0.9799

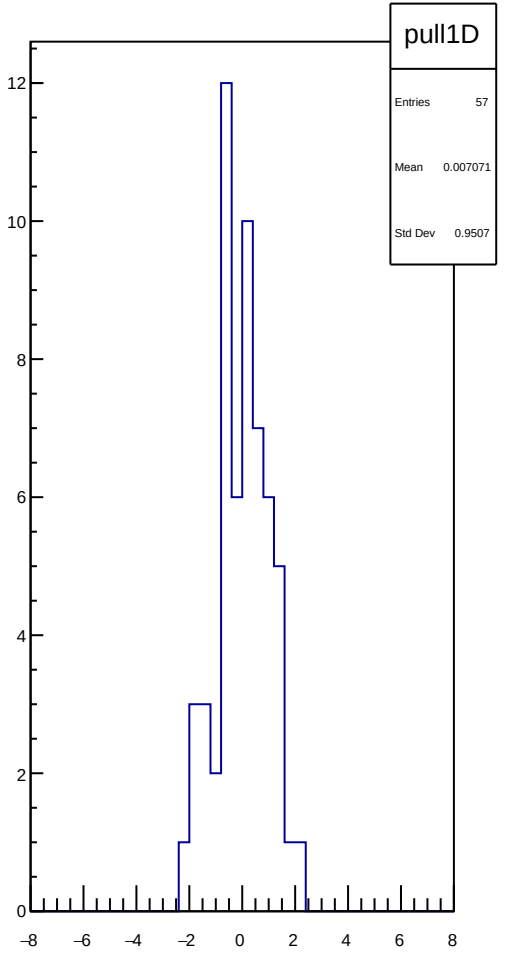

asym_atr1l2_avg_rms vs run
χ² / ndf 5.002e+04 / 56
p0 1997 ± 1.96
5500
5000
4500
4000
3500
3000
2500
2000
1500

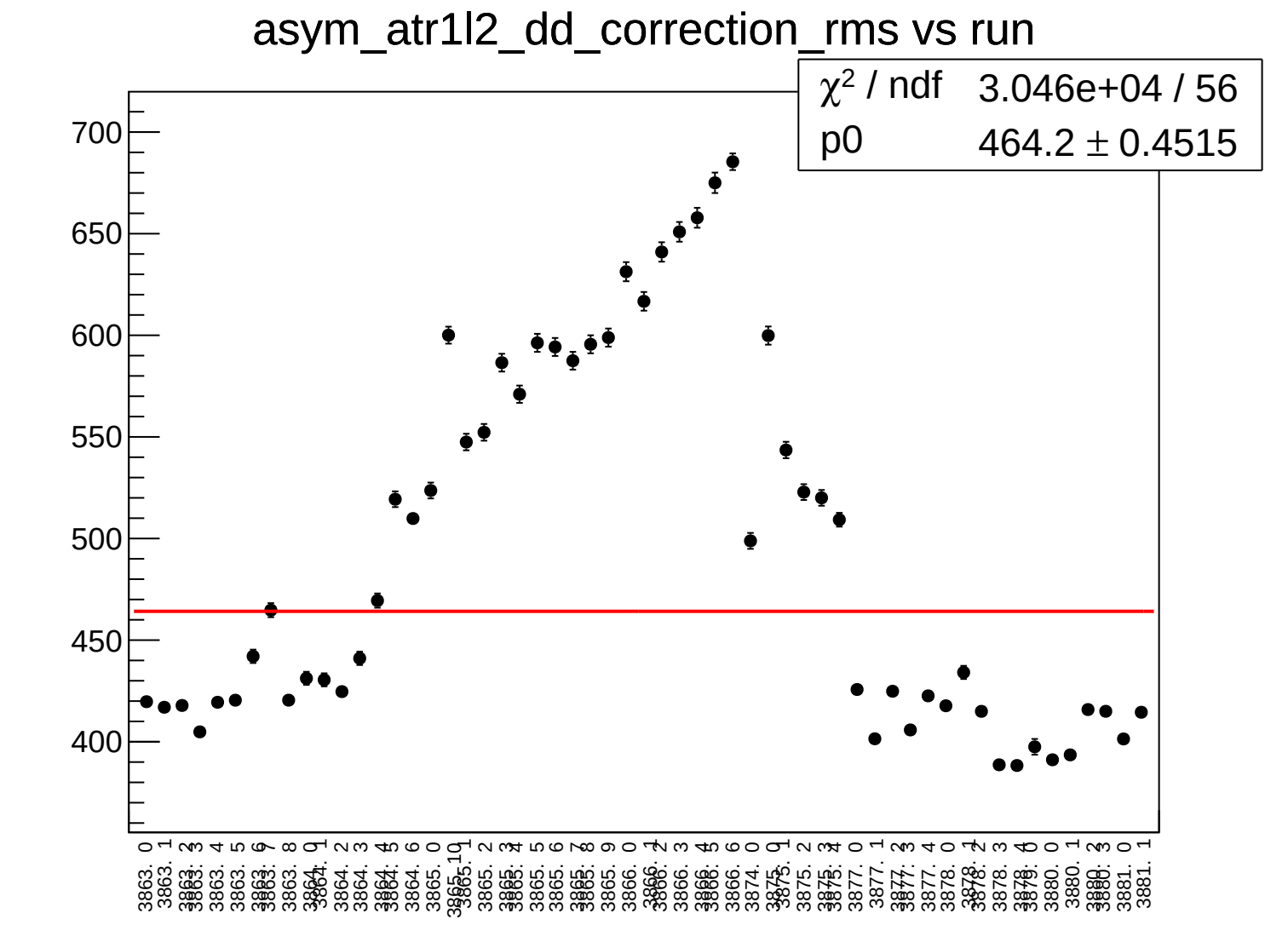

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 58.47 / 56
p0 −223.4 ± 385.8
×10³
pull
Entries 57
Mean −105.2
Std Dev 132.6

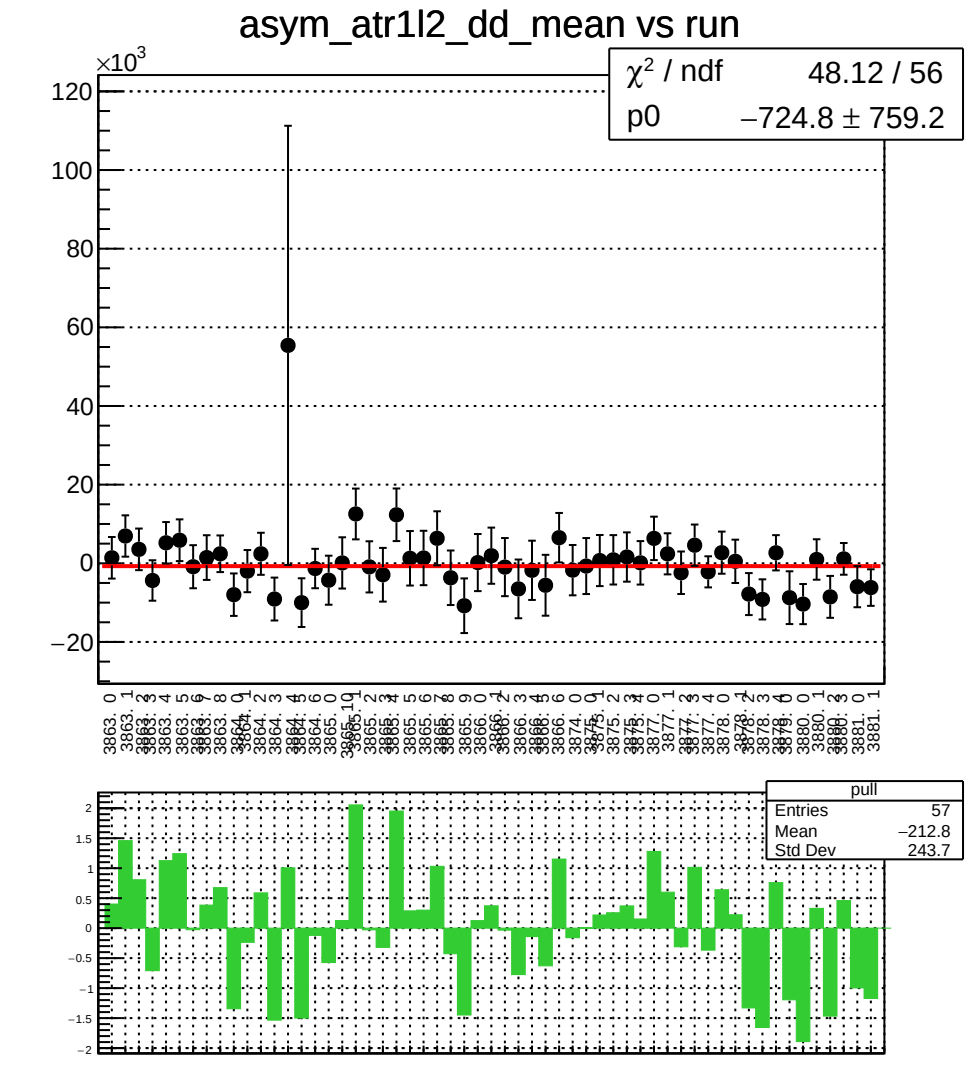

pull1D
Entries 57
Mean 0.02235
Std Dev 1.013

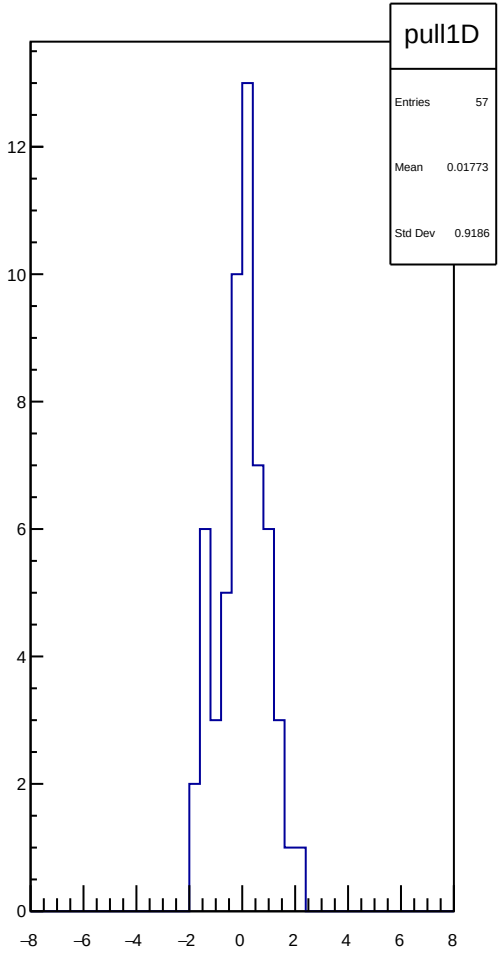

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 1.704e+04 / 56
p0 282.3 ± 0.2728
5000
4000
3000
2000
1000

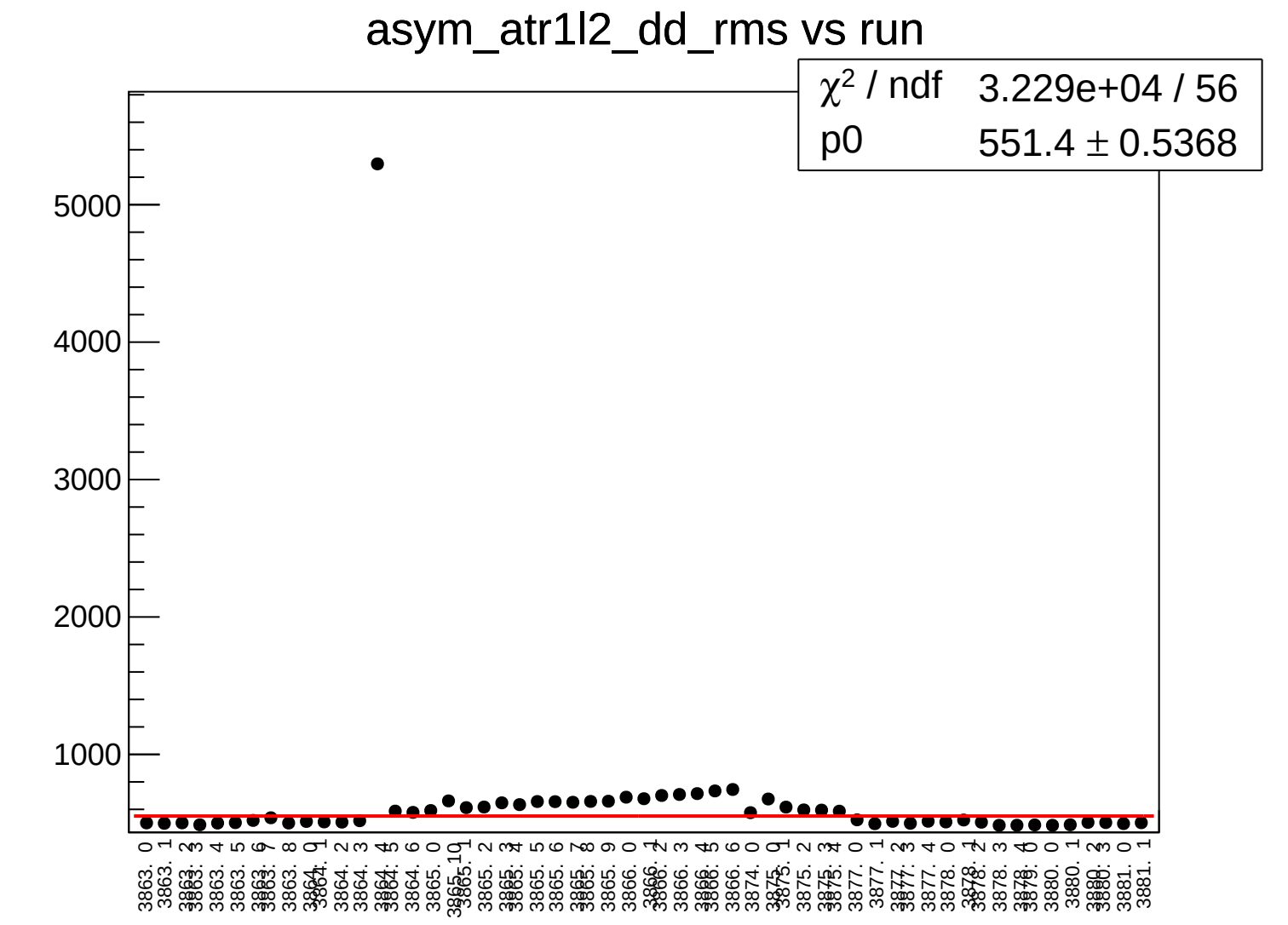

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 51.52 / 56
p0 329.4 ± 638.5
pull
Entries 57
Mean 491.2
Std Dev 457.2


pull1D
Entries 57
Mean 0.007071
Std Dev 0.9507


asym_atr1l2_dd_correction_rms vs run
χ² / ndf 3.046e+04 / 56
p0 464.2 ± 0.4515
700
650
600
550
500
450
400


asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 48.12 / 56
p0 −724.8 ± 759.2
pull
Entries 57
Mean −212.8
Std Dev 243.7


pull1D
Entries 57
Mean 0.01773
Std Dev 0.9186


asym_atr1l2_dd_rms vs run
χ² / ndf 3.229e+04 / 56
p0 551.4 ± 0.5368
5000
4000
3000
2000
1000